JOLIET JUNIOR COLLEGE

MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

ISSUED FOR BID PACKAGE 2

2015-07-17

DKA PROJECT NO: 14-004

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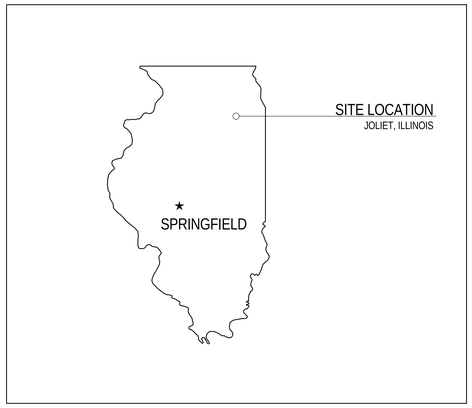
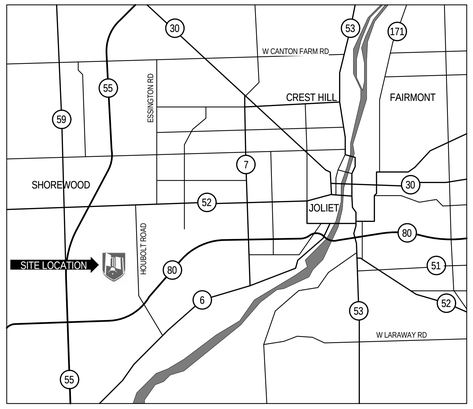
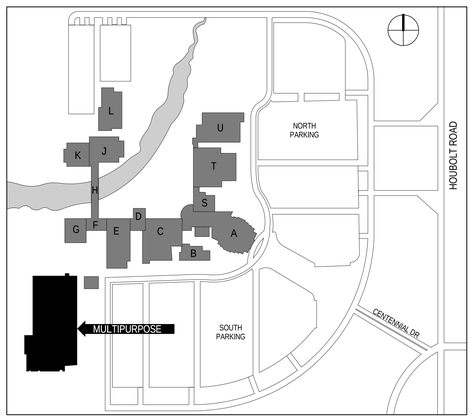
STATE LOCATION MAP



AREA MAP



CAMPUS MAP



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M1.33 ROOF PLAN - AREA 3 - VENTILATION
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P1.40 ALTERNATE 1 PLANS - PLUMBING
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P3.02 ENLARGED PLANS
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P4.01 PLUMBING DETAILS
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E1.13 LEVEL 1 PLAN - AREA 3 - LIGHTING
E1.21 LEVEL 2 PLAN - AREA 1 - LIGHTING
E1.22 LEVEL 2 PLAN - AREA 2 - LIGHTING
E1.23 LEVEL 2 PLAN - AREA 3 - LIGHTING
E2.11 LEVEL 1 PLAN - AREA 1 - POWER
E2.12 LEVEL 1 PLAN - AREA 2 - POWER
E2.13 LEVEL 1 PLAN - AREA 3 - POWER
E2.21 LEVEL 2 PLAN - AREA 1 - POWER
E2.22 LEVEL 2 PLAN - AREA 2 - POWER
E2.23 LEVEL 2 PLAN - AREA 3 - POWER
E2.30 OVERALL ROOF PLAN - ELECTRICAL
E2.40 ALTERNATE PLANS - ELECTRICAL
E3.11 LEVEL 1 PLAN - AREA 1 - SYSTEMS
E3.12 LEVEL 1 PLAN - AREA 2 - SYSTEMS
E3.13 LEVEL 1 PLAN - AREA 3 - SYSTEMS
E3.21 LEVEL 2 PLAN - AREA 1 - SYSTEMS
E3.22 LEVEL 2 PLAN - AREA 2 - SYSTEMS
E3.23 LEVEL 2 PLAN - AREA 3 - SYSTEMS
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E4.01 ELECTRICAL DETAILS
E4.02 ELECTRICAL DETAILS
E4.03 ELECTRICAL DETAILS
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E5.01 ELECTRICAL SCHEDULES
E5.10 ELECTRICAL PANEL SCHEDULES
E5.11 ELECTRICAL PANEL SCHEDULES
E5.12 ELECTRICAL PANEL SCHEDULES
E6.00 ELECTRICAL ONE LINE DIAGRAM NORMAL
E6.01 ELECTRICAL ONE LINE DIAGRAM EMERGENCY

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FP1.20 LEVEL 2 PLAN - FIRE PROTECTION
FP2.00 ALTERNATE PLANS - FIRE PROTECTION
FP3.00 FIRE PROTECTION RISER DIAGRAM & DETAILS
FP4.00 FIRE PROTECTION MATERIAL LIST
FP5.01 FIRE PROTECTION MATERIAL LIST

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T1.11 LEVEL 1 PLAN - AREA 1 - TECHNOLOGY
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T1.13 LEVEL 1 PLAN - AREA 3 - TECHNOLOGY
T1.21 LEVEL 2 PLAN - AREA 1 - TECHNOLOGY
T1.22 LEVEL 2 PLAN - AREA 2 - TECHNOLOGY
T1.23 LEVEL 2 PLAN - AREA 3 - TECHNOLOGY
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T3.00 ENLARGED PLANS
T3.01 ENLARGED PLANS
T4.00 TECHNOLOGY DETAILS
T5.00 TECHNOLOGY RISER DIAGRAMS
T6.00 TECHNOLOGY FLOW DIAGRAM
T7.00 TECHNOLOGY EQUIPMENT SCHEDULE

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
SHEET INDEX,
SYMBOLS & NOTES

SHEET NUMBER:
G1.00

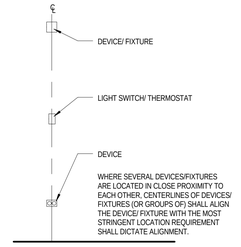
8/28/2015 4:25:05 PM

ABBREVIATIONS

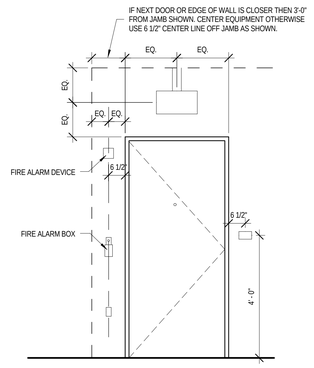
AP	ACCESS PANEL
ACOUST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
AGGR	AGGREGATE
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
L	ANGLE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL OR ARCHITECT
AD	AREA DRAIN
ASB	ASBESTOS
ASPH	ASPHALT
A/V	AUDIO VISUAL
BSMT	BASEMENT
BRG	BEARING
BM	BEAM
BTW	BETWEEN
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BRK	BRICK
BLDG	BUILDING
CAB	CABINET
CIP	CAST IN PLACE
CIPC	CAST IN PLACE CONCRETE
CI	CURB INLET
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CJ	CONTROL JOINT
CL	CENTER LINE
CPT	CARPET
CT	CERAMIC TILE
CLR	CLEAR
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CM	CONSTRUCTION MANAGER
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACTOR
CK	CORK
CORR	CORRIDOR
CNSK	COUNTERSUNK
CRS	COURSE
DEMO	DEMOLISH OR DEMOLITION
DEPT	DEPARTMENT
DL	DEAD LOAD
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DO	DOOR OPENING
DBL	DOUBLE
DS	DOWNSPOUT
DRW	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
DS	DRY STANDPIPE
DWT	DETECTABLE WARNING TILE
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEC	ELECTRICAL
ETC	ELECTRICAL TRADES CONTRACTOR
EWC	ELECTRICAL WATER COOLER
EP	ELECTRICAL PANEL BOARD
EL	ELEVATION
ELEV	ELEVATION
ELVTR	ELEVATOR
ENCL	ENCLOSURE
EMER	EMERGENCY
EP PT	EPOXY PAINT
EPF	EPOXY FLOORING
EQ	EQUAL
EQPMT	EQUIPMENT
EXSTG	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXPD	EXPOSED
EXTR	EXTERIOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIBERGLASS REINFORCED PANEL
FIN	FINISH OR FINISHED
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FPRF	FIREPROOF
FB	FLAT BAR STOCK
FL	FLOOR
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
FT	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
FRM	FRAME
FRMG	FRAMING
FS	FULL SIZE
FURR	FURRING
FUTR	FUTURE
FW	FABRIC WALLCOVERING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GC	GENERAL CONTRACTOR
GTC	GENERAL TRADES CONTRACTOR
GL	GLASS OR GLAZING
GD	GRADE
GND	GROUND
GYP BD	GYPSUM BOARD
HDW	HARDWARE
HDWD	HARDWOOD
HDR	HEADER
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HMF	HOLLOW METAL FRAME
HORZ	HORIZONTAL
HB	HOSE BIB
HR	HOUR
INC	INCLUDE
I.D.	INSIDE DIAMETER
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LGTH	LENGTH
LT	LIGHT
LWC	LIGHT WEIGHT CONCRETE
LTL	LINTEL
LN	LINOLEUM
LL	LIVE LOAD
MH	MANHOLE
MFR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MTL	METAL
MAX	MAXIMUM
MECH	MECHANICAL
MTC	MECHANICAL TRADES CONTRACTOR
MEMB	MEMBRANE
MT	MARBLE TILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNDED
MTG	MOUNTING
MUL	MULLION
NOM	NOMINAL
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO OR #	NUMBER
OBS	OBSCURE
OFF	OFFICE
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.D.	OUTSIDE DIAMETER
OA	OVERALL
OFD	OVERFLOW DRAIN
PT	PAINT
PTD	PAINTED
PR	PAIR
PNL	PANEL
PBD	PARTICLE BOARD
PTN	PARTITION
PLAS	PLASTIC
P-LAM	PLASTIC LAMINATE
PL	PLATE
PTC	PLUMBING TRADES CONTRACTOR
PLYWD	PLYWOOD
PSI	POUNDS PER SQUARE INCH
PC	PRECAST
PCC	PRECAST CONCRETE
QT	QUARRY TILE
R	RADIUS
RWL	RAIN WATER LEADER
REFRG	REFRIGERATOR
RGTR	REGISTER
REINF	REINFORCED
RQD	REQUIRED
RES	RESILIENT
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
RD	ROOF DRAIN
RM	ROOM
R.O.	ROUGH OPENING
RB	RUBBER BASE
SECT	SECTION
SK	SINK
SCHED	SCHEDULE
SHTG	SHEATHING
SHT	SHEET
SV	SHEET VINYL
SHWR	SHOWER
SIM	SIMILAR
SC	SEALED CONCRETE
SPM	SINGLE PLY MEMBRANE
S	SOUTH
SFRM	SPRAY APPLIED FIRE RESISTIVE MATERIAL
SPEC	SPECIFICATION
SQ	SQUARE
S.S.	STAINLESS STEEL
STD	STANDARD
STA	STATION
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTICAL TILE
SYM	SYMMETRICAL
TEL	TELEPHONE
TV	TELEVISION
TRZ	TERRAZZO
TB	TILE BASE
THK	THICK
T.O.C.	TOP OF CURB
TOP	TOP OF PAVEMENT
TOW	TOP OF WALL
T&G	TONGUE AND GROOVE
TYP	TYPICAL
UNF	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
VB	VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VW	VINYL WALLCOVERING
WSCT	WAINSCOT
WC	WATER CLOSET
WLK	WALK-OFF MAT
WR	WATER RESISTANT
WT	WALL TILE OR WEIGHT
W	WEST
W	WIDE FLANGE "W16x21"
W	WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WDP	WOOD PANEL
X	EXISTING

MATERIAL DESIGNATIONS:

- ALUMINUM
- CONCRETE, PRECAST CONCRETE
- GRANULAR BASE
- CONCRETE MASONRY BLOCK
- GROUT / GYP. BD.
- FACE BRICK MASONRY
- FACE BRICK MASONRY
- EARTH
- SAND
- PLYWOOD
- WOOD BLOCKING (CONTINUOUS)
- WOOD BLOCKING (SHIM. STRIP)
- RIGID INSULATION
- SPRAY FOAM INSULATION
- SPRAY APPLIED FIRE PROOFING
- STEEL
- EXTERIOR WEATHER BARRIER INSULATION
- BACKER ROD AND SEALANT

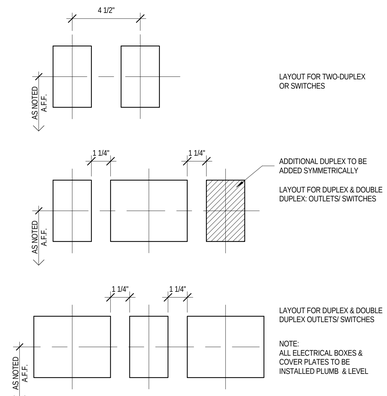


1 DEVICE/ FIXTURES ALIGNMENT
1/2" = 1'-0"

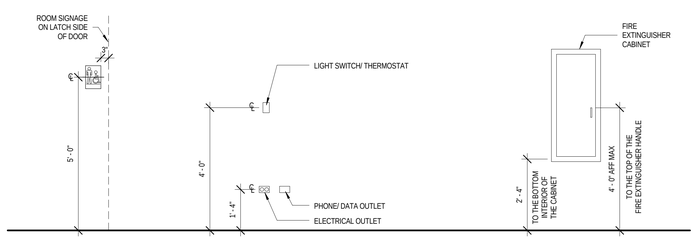


2 ROOM INTERIORS TYP. EQUIPMENT LAYOUT @ DOORS
1/2" = 1'-0"

NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.



3 TYP. OUTLETS/ SWITCH SPACING
3" = 1'-0"



NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.

4 ADA MOUNTING HEIGHTS
1/2" = 1'-0"

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SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

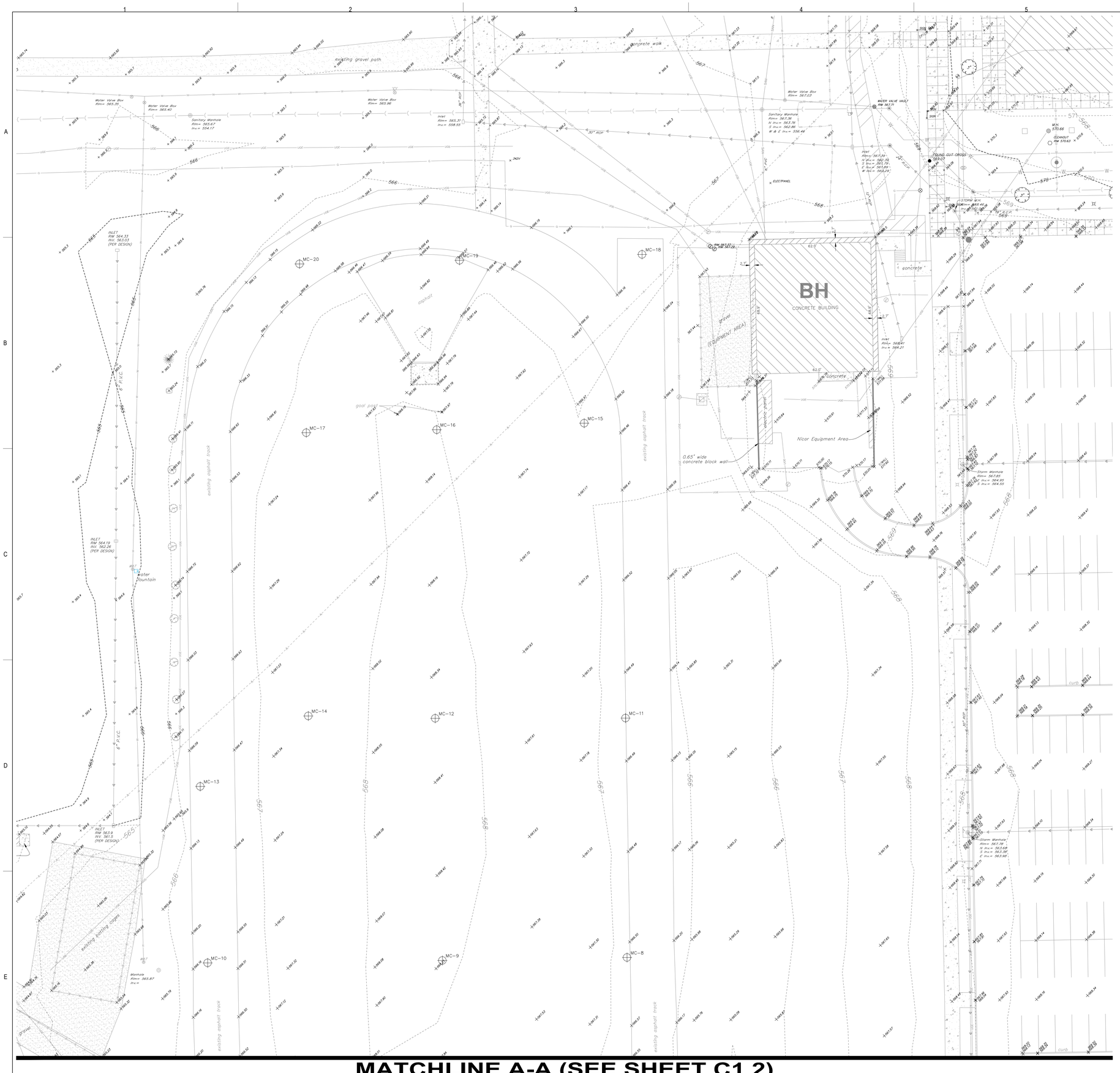
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ABBREVIATIONS, SYMBOLS, AND GENERAL DETAILS

SHEET NUMBER:
G1.01

8/28/2015 4:25:08 PM



GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
	UTILITY POLE
	GUY ANCHOR
UGE	UNDERGROUND ELECTRIC LINES
OHE	OVERHEAD ELECTRIC LINES
	STREET LIGHT
	VALVE & VAULT
	FIRE HYDRANT
	STORM SEWER INLET
	STORM SEWER MANHOLE
ST	STORM SEWER LINES
ST	"SUSPECTED" STORM SEWER LINES
	CABLE TV HANDHOLE
	CABLE TV PEDESTAL
CATV	UNDERGROUND CABLE TV LINES
	TELEPHONE PEDESTAL
	TELEPHONE CONTROL MANHOLE
UGT	UNDERGROUND TELEPHONE LINES
	SIGN
G	UNDERGROUND GAS LINES
	SIGNAL CONTROL BOX
	SIGNAL PEDESTAL
	EVERGREEN TREE W/ DIAMETER
	EXISTING TREE W/ DIAMETER
	BUSH W/ DIAMETER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
	GAS METER
	SANITARY SEWER MANHOLE
SAN	"SUSPECTED" SANITARY SEWER LINES
	GUARDRAIL
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC OUTLET
	ELECTRIC TRANSFORMER
	GAS VALVE BOX
	LANDSCAPE LIGHT
	BUFFALO BOX
	HAND WATER PUMP
	ELECTRIC METER
W	"SUSPECTED" UNDERGROUND WATER LINES
	ROPE POST
RV	IRRIGATION CONTROL VALVE
	CLEAN OUT
	TELEPHONE HANDHOLE
	LIGHT HANDHOLE
XX	EXISTING SOIL BORING LOCATION

EXISTING CONDITIONS SHOWN HEREON ARE FROM SURVEYS BY R.T. & A. (2008–2015) DURING VARIOUS PHASES OF CAMPUS CONSTRUCTION AND FROM PREVIOUSLY PROPOSED IMPROVEMENT PLANS BY R.T. & A. (2008–2013). FIELD VERIFY EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION. EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM FIELD LOCATIONS AND UTILITY COMPANY MAPS AND J.U.L.I.E. LOCATIONS/MAPS AND THEREFORE THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 745' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.

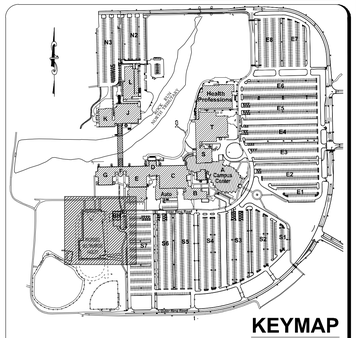
ELEVATION: 607.75 (NAVD 88)

SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP

SCALE: 1" = 500'

Ruettiger, Tonelli & Associates, Inc.

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129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404

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website: www.ruettigertonelli.com

LATEST R.T.& A. REVISION: 6-1-2015

FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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P: 815.744.6600

JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

EXISTING CONDITIONS (1 OF 3)

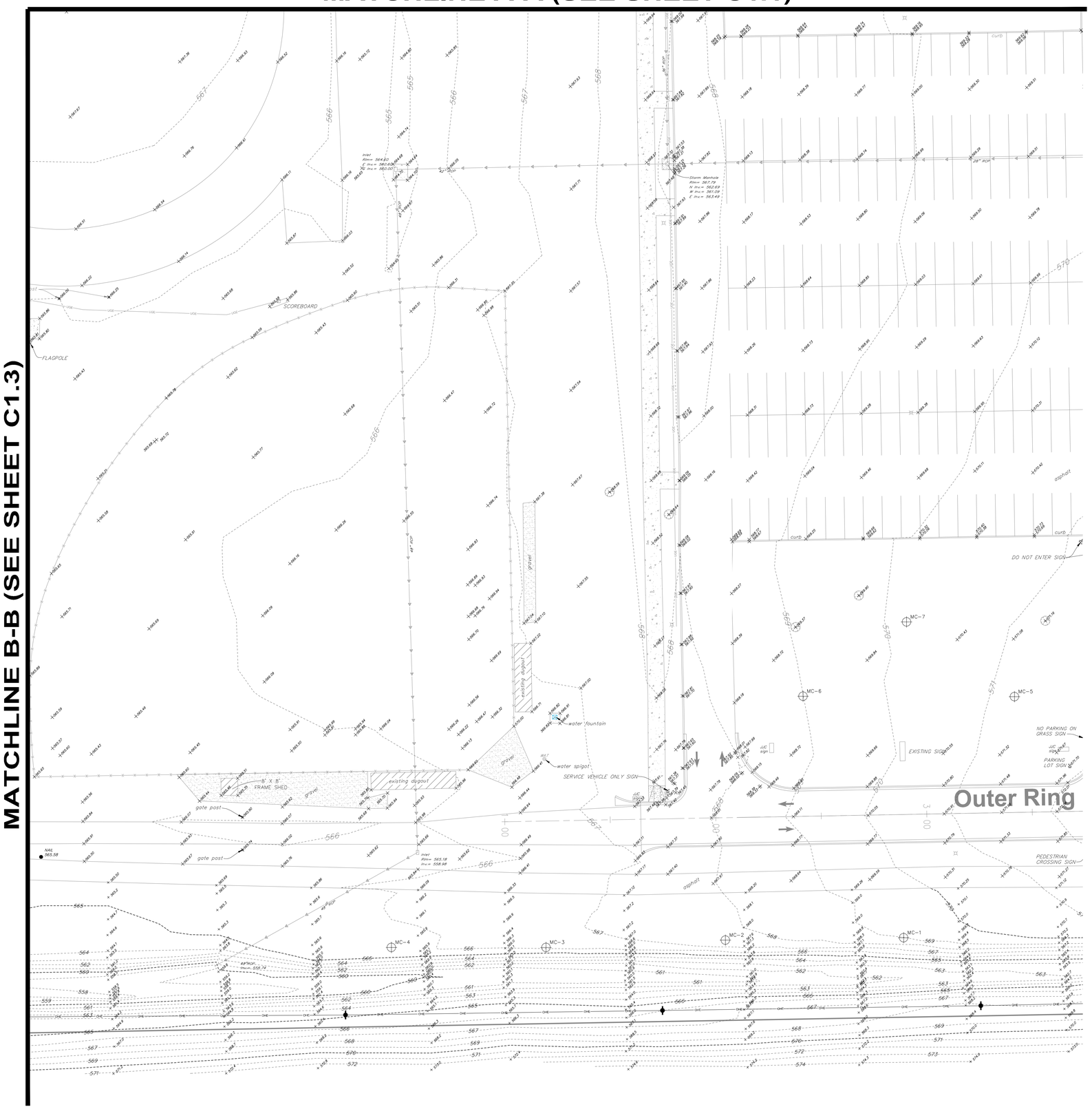
SHEET NUMBER:

C1.1

N:\Proj\2015\0058\Engineering\Plan Sheets\C1 - JJC Multipurpose Cover\Plan C1.1 - Existing Conditions 01.dwg, Layout1, 6/2/2015 10:13:33 AM, JPeterson

MATCHLINE A-A (SEE SHEET C1.1)

MATCHLINE B-B (SEE SHEET C1.3)



GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
	UTILITY POLE
	GUY ANCHOR
UGE	UNDERGROUND ELECTRIC LINES
OHE	OVERHEAD ELECTRIC LINES
	STREET LIGHT
	VALVE & VAULT
	FIRE HYDRANT
	STORM SEWER INLET
	STORM SEWER MANHOLE
	STORM SEWER LINES
ST	"SUSPECTED" STORM SEWER LINES
	CABLE TV HANDHOLE
	CABLE TV PEDESTAL
CATV	UNDERGROUND CABLE TV LINES
	TELEPHONE PEDESTAL
	TELEPHONE CONTROL MANHOLE
UGT	UNDERGROUND TELEPHONE LINES
	SIGN
G	UNDERGROUND GAS LINES
	SIGNAL CONTROL BOX
	SIGNAL PEDESTAL
	EVERGREEN TREE W/ DIAMETER
	EXISTING TREE W/ DIAMETER
18"	BUSH W/ DIAMETER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
GM	GAS METER
	SANITARY SEWER MANHOLE
SAN	"SUSPECTED" SANITARY SEWER LINES
	GUARDRAIL
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC OUTLET
	ELECTRIC TRANSFORMER
	GAS VALVE BOX
	LANDSCAPE LIGHT
	BUFFALO BOX
	HAND WATER PUMP
	ELECTRIC METER
W W	"SUSPECTED" UNDERGROUND WATER LINES
	ROPE POST
WV	IRRIGATION CONTROL VALVE
	CLEAN OUT
	TELEPHONE HANDHOLE
	LIGHT HANDHOLE
XX	EXISTING SOIL BORING LOCATION

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ELEVATION: 607.75 (NAVD 88)

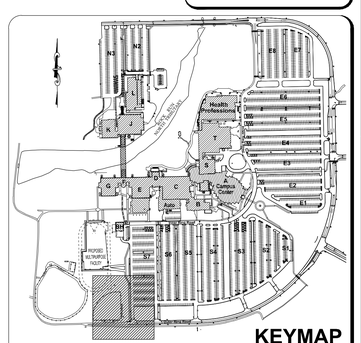
SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.

KEY PLAN:



KEYMAP

SCALE: 1" = 500'

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website: www.ruettigertonelli.com

LATEST R.T.& A. REVISION: 6-1-2015

FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO:14-004

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

EXISTING CONDITIONS (2 OF 3)

SHEET NUMBER:

C1.2

N:\Files\2015\2015058\Engineering\Plat Sheet\C1 - JJC Multipurpose Cover\Sht C1.2 - Existing Conditions 02.dwg, Layout1, 6/1/2015 10:14:05 AM, Rhewlins

EASTERLY LIMITS OF SPECIAL FLOOD HAZARD AREAS ZONE A (NO BASE FLOOD ELEVATIONS DETERMINED) AS GRAPHICALLY DEPICTED ON FEMA FLOOD INSURANCE RATE MAP, PANEL 143 OF 585, MAP NO. 17197C0143 F, REVISED MARCH 17, 2003.

SCOREBOARD

MILE SIGN POST

water spigot

MATCHLINE B-B (SEE SHEET C1.2)

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
	UTILITY POLE
	GUY ANCHOR
UGE	UNDERGROUND ELECTRIC LINES
OHE	OVERHEAD ELECTRIC LINES
	STREET LIGHT
	VALVE & VAULT
	FIRE HYDRANT
	STORM SEWER INLET
	STORM SEWER MANHOLE
	STORM SEWER LINES
ST	"SUSPECTED" STORM SEWER LINES
	CABLE TV HANDHOLE
	CABLE TV PEDESTAL
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	TELEPHONE PEDESTAL
	TELEPHONE CONTROL MANHOLE
UGT	UNDERGROUND TELEPHONE LINES
	SIGN
G	UNDERGROUND GAS LINES
	SIGNAL CONTROL BOX
	SIGNAL PEDESTAL
	EVERGREEN TREE W/ DIAMETER
	EXISTING TREE W/ DIAMETER
	BUSH W/ DIAMETER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
	GAS METER
	SANITARY SEWER MANHOLE
SAN	"SUSPECTED" SANITARY SEWER LINES
	GUARDRAIL
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC OUTLET
	ELECTRIC TRANSFORMER
	GAS VALVE BOX
	LANDSCAPE LIGHT
	BUFFALO BOX
	HAND WATER PUMP
	ELECTRIC METER
W	"SUSPECTED" UNDERGROUND WATER LINES
	ROPE POST
IRV	IRRIGATION CONTROL VALVE
	CLEAN OUT
	TELEPHONE HANDHOLE
	LIGHT HANDHOLE
XX	EXISTING SOIL BORING LOCATION

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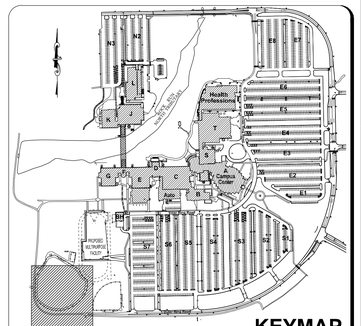
FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

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LATEST R.T.& A. REVISION: 6-1-2015
FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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129 CAPISTA DRIVE
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

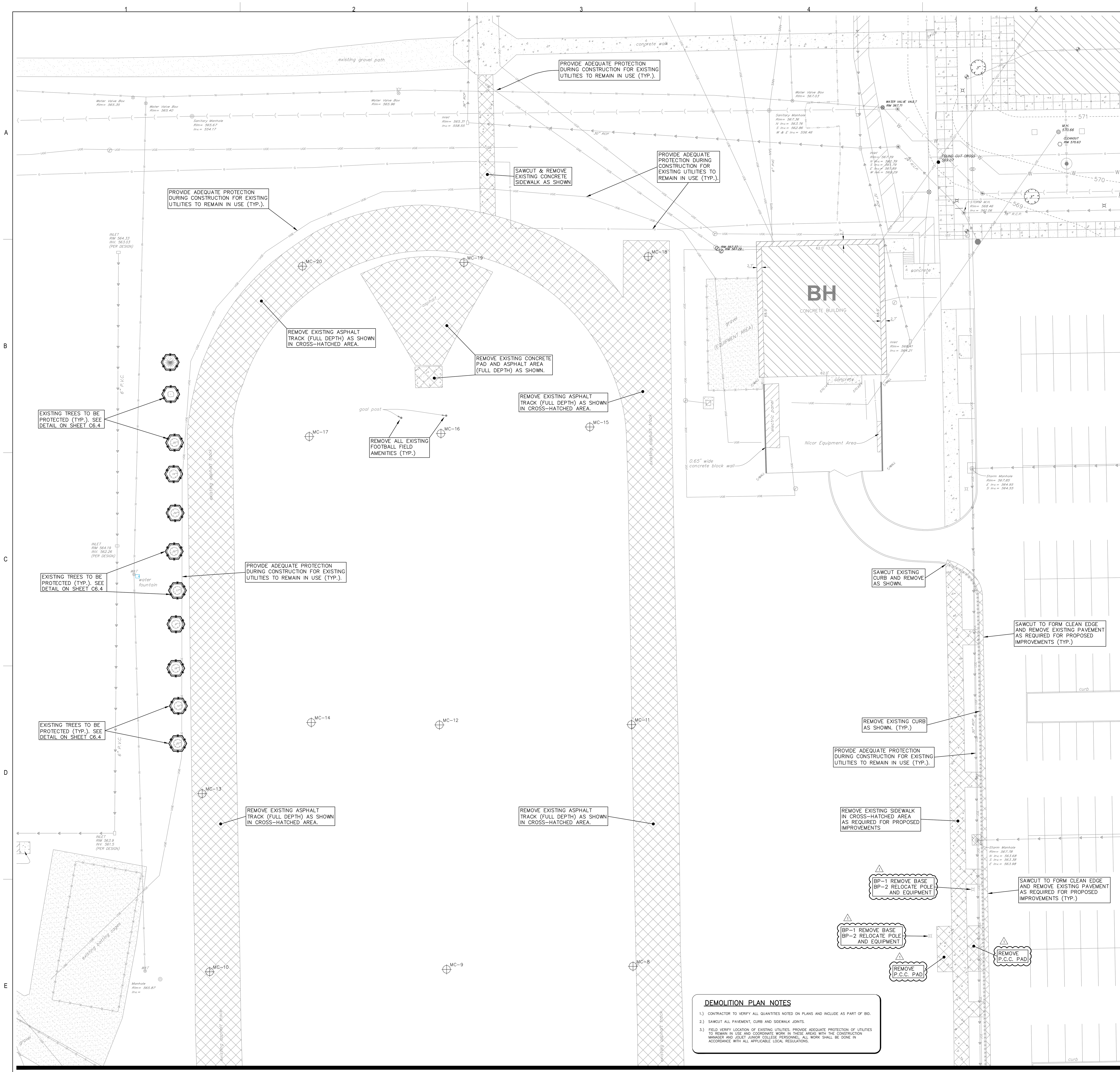
SHEET STATUS: 06/01/15
BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EXISTING CONDITIONS (3 OF 3)

SHEET NUMBER:
C1.3

K:\Proj\2015\058\Engineering\Plan Sheet\C1 - JJC Multipurpose Construction\SHEET C1.3 - Existing Conditions (3 of 3).dwg, Layout 1, 6/2/2015 10:18:27 AM, Brandon



LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
	UTILITY POLE
	GUY ANCHOR
UGE	UNDERGROUND ELECTRIC LINES
OHE	OVERHEAD ELECTRIC LINES
	STREET LIGHT
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	FIRE HYDRANT
	STORM SEWER INLET
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	CABLE TV PEDESTAL
CATV	UNDERGROUND CABLE TV LINES
	TELEPHONE PEDESTAL
	TELEPHONE CONTROL MANHOLE
UGT	UNDERGROUND TELEPHONE LINES
	SIGN
G	UNDERGROUND GAS LINES
SCB	SIGNAL CONTROL BOX
S	SIGNAL PEDESTAL
16"	EVERGREEN TREE W/ DIAMETER
2"	EXISTING TREE W/ DIAMETER
12"	BUSH W/ DIAMETER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
GM	GAS METER
	SANITARY SEWER MANHOLE
SAN	"SUSPECTED" SANITARY SEWER LINES
	GUARDRAIL
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC OUTLET
	ELECTRIC TRANSFORMER
	GAS VALVE BOX
	LANDSCAPE LIGHT
	BUFFALO BOX
	HAND WATER PUMP
	ELECTRIC METER
W	"SUSPECTED" UNDERGROUND WATER LINES
	ROPE POST
WV	IRRIGATION CONTROL VALVE
	CLEAN OUT
	TELEPHONE HANDHOLE
	LIGHT HANDHOLE
	TREE REMOVAL
	EXISTING ITEM TO BE REMOVED AS NOTED
XXXXXXXXXXXX	EXISTING CURB TO BE REMOVED AS NOTED
X X X X X X	EXISTING ITEM TO BE REMOVED AS NOTED

DEMOLITION PLAN NOTES

1.) CONTRACTOR TO VERIFY ALL QUANTITIES NOTED ON PLANS AND INCLUDE AS PART OF BID.

2.) SAWCUT ALL PAVEMENT, CURB AND SIDEWALK JOINTS.

3.) FIELD VERIFY LOCATION OF EXISTING UTILITIES. PROVIDE ADEQUATE PROTECTION OF UTILITIES TO REMAIN IN USE AND COORDINATE WORK IN THESE AREAS WITH THE CONSTRUCTION MANAGER AND JOLIET JUNIOR COLLEGE PERSONNEL. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL REGULATIONS.

MATCHLINE A-A (SEE SHEET C2.2)

Call Before You Dig
JULIE
ILLINOIS ONE-CALL SYSTEM
CONTACT J.U.L.I.E. at 811 or 800-892-0123
48 Hours (2 Working Days) BEFORE YOU DIG.
Include the following:
County, City/Township, Section & ¼ Section No.

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.

ELEVATION: 607.75 (NAVD 88)

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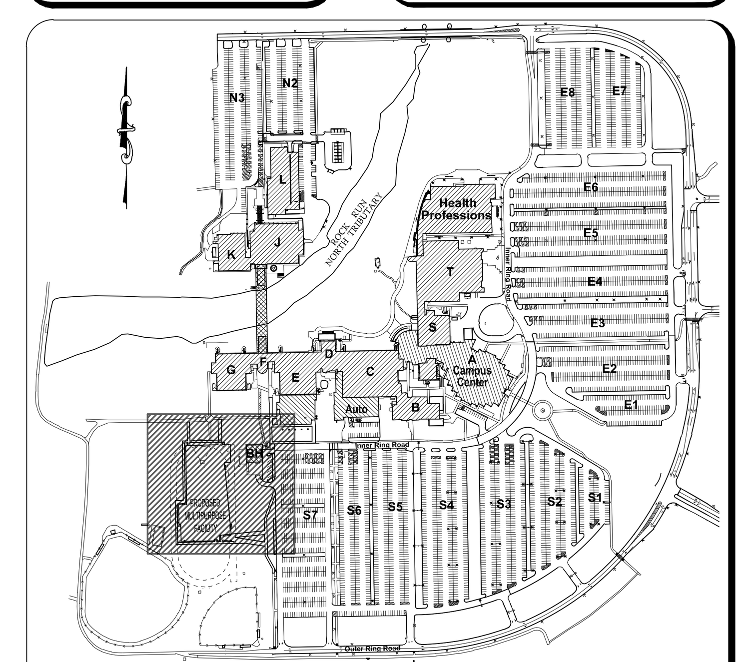
ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

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LATEST R.T.& A. REVISION: 6-23-2015
FIELD BOOK & PAGE: JJC
R.T. & A. Dwg. No.: 401-0058-C1

dkA

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MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, IL 60431
DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15
BID PACKAGE 1
ISSUED FOR BID

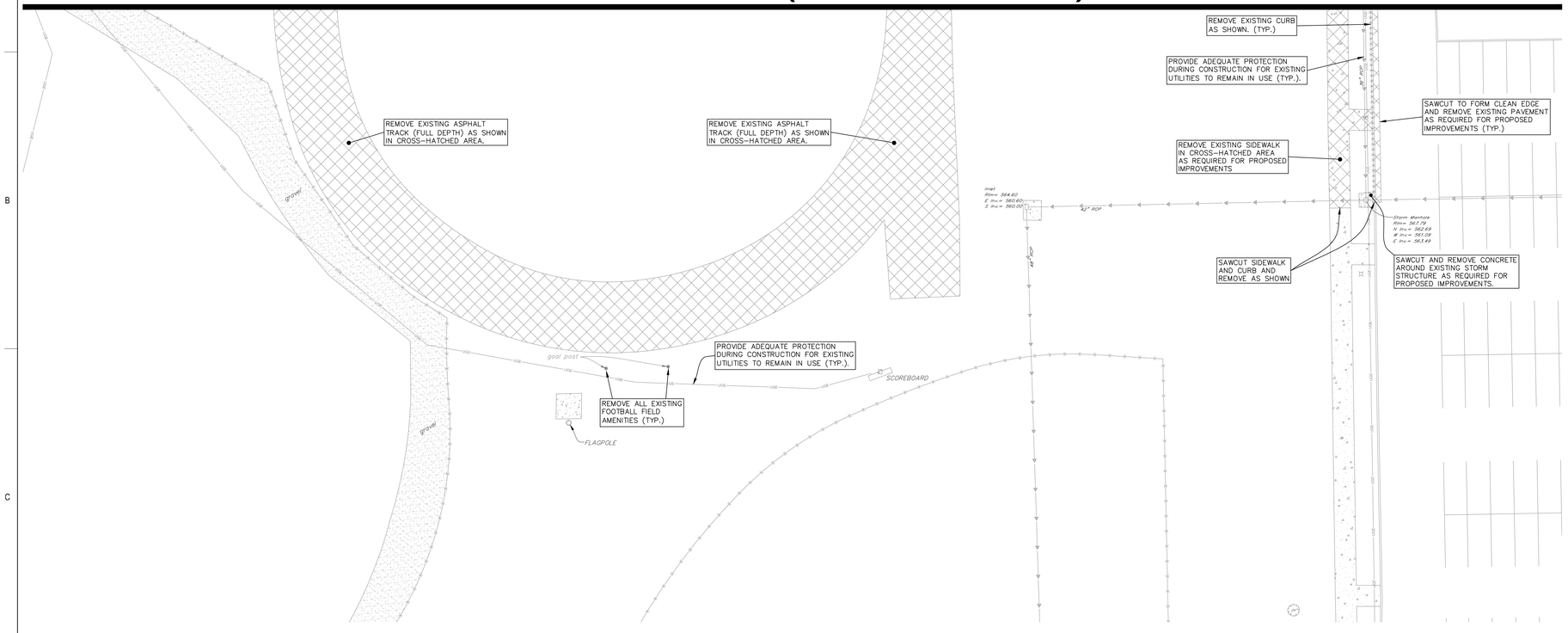
NO:	DESCRIPTION:	DATE:
1	BP-1 ADDENDUM 1	6-23-2015

SHEET TITLE:
DEMOLITION PLAN (1 OF 2)

SHEET NUMBER:
C2.1

N:\Tech\2015\0058\Engineering\Plan Sets\C1 - JJC Multipurpose Center\Sht C2.1 - Demolition Plan 01.dwg, Layout1, 6/23/2015 10:46:35 AM, rpeeples

MATCHLINE A-A (SEE SHEET C2.1)



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GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
	UTILITY POLE
	GUY ANCHOR
UGE	UNDERGROUND ELECTRIC LINES
OHE	OVERHEAD ELECTRIC LINES
	STREET LIGHT
	VALVE & VAULT
	FIRE HYDRANT
	STORM SEWER INLET
	STORM SEWER MANHOLE
	STORM SEWER LINES
ST	"SUSPECTED" STORM SEWER LINES
	CABLE TV HANDHOLE
	CABLE TV PEDESTAL
CATV	UNDERGROUND CABLE TV LINES
	TELEPHONE PEDESTAL
	TELEPHONE CONTROL MANHOLE
UGT	UNDERGROUND TELEPHONE LINES
	SIGN
G	UNDERGROUND GAS LINES
CCB	SIGNAL CONTROL BOX
	SIGNAL PEDESTAL
	EVERGREEN TREE W/ DIAMETER
	EXISTING TREE W/ DIAMETER
	BUSH W/ DIAMETER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
GM	GAS METER
	SANITARY SEWER MANHOLE
SAN	"SUSPECTED" SANITARY SEWER LINES
	GUARDRAIL
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC OUTLET
	ELECTRIC TRANSFORMER
	GAS VALVE BOX
	LANDSCAPE LIGHT
	BUFFALO BOX
	HAND WATER PUMP
	ELECTRIC METER
W	"SUSPECTED" UNDERGROUND WATER LINES
	ROPE POST
WV	IRRIGATION CONTROL VALVE
	CLEAN OUT
	TELEPHONE HANDHOLE
	LIGHT HANDHOLE
	TREE REMOVAL
	EXISTING ITEM TO BE REMOVED AS NOTED
	EXISTING CURB TO BE REMOVED AS NOTED
	EXISTING ITEM TO BE REMOVED AS NOTED

Call Before You Dig

JULIE ILLINOIS ONE-CALL SYSTEM

CONTACT J.U.L.I.E. at 811 or 800-892-0123

48 Hours (2 Working Days) BEFORE YOU DIG.

Include the following:

County, City/Township, Section & ¼ Section No.

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 745' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.

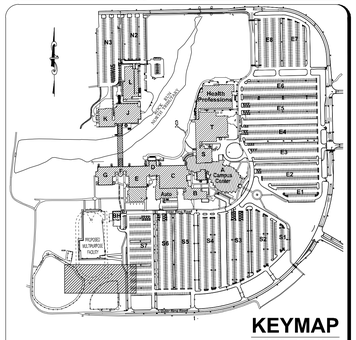
ELEVATION: 607.75 (NAVD 88)

SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP

SCALE: 1" = 500'

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website: www.ruettigertonelli.com

LATEST R.T.& A. REVISION: 6-1-2015

FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

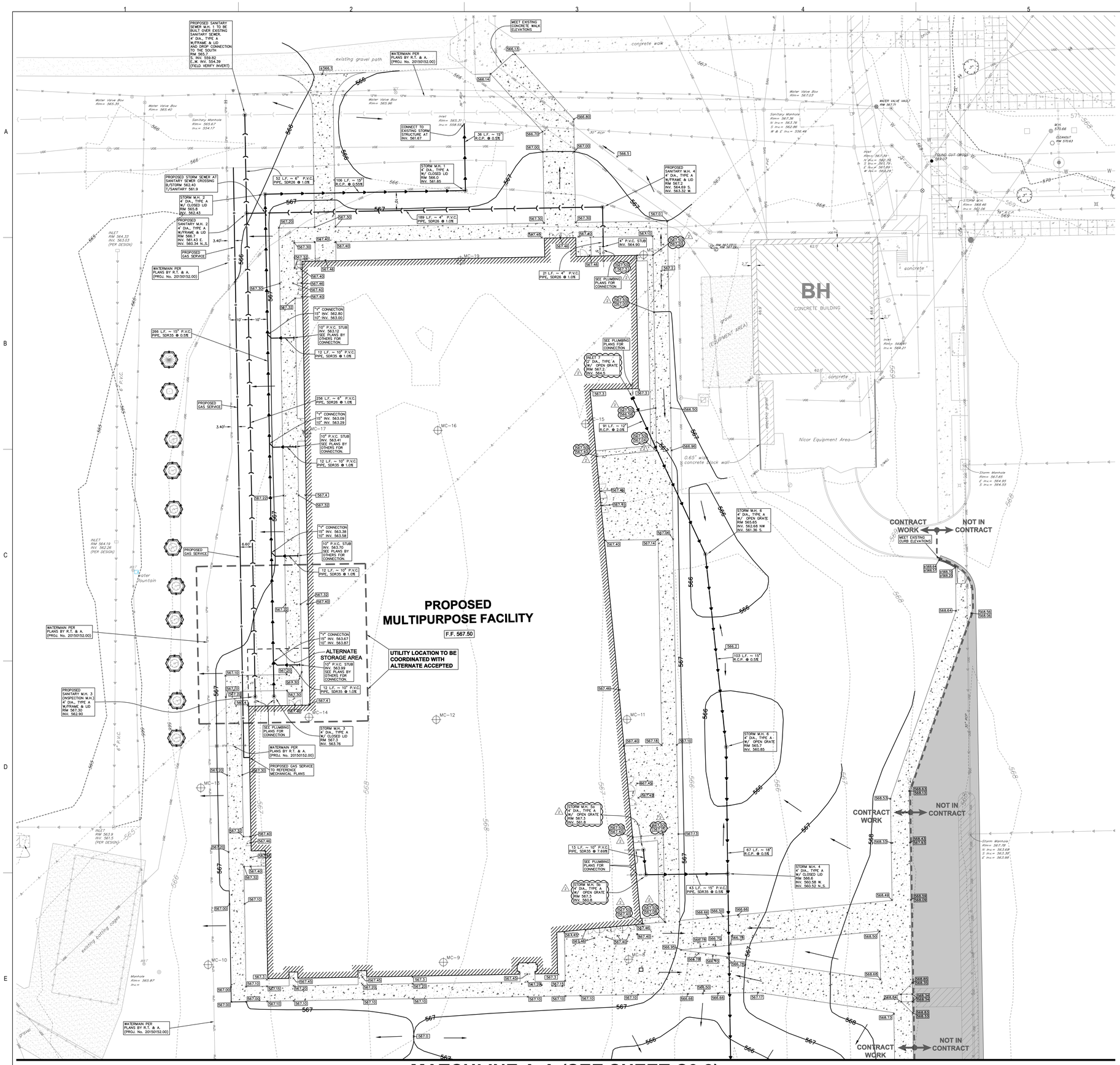
SHEET TITLE:

DEMOLITION PLAN (1 OF 2)

SHEET NUMBER:

C2.2

N:\Tonelli\2015\058\Engineering\Plan Sheet\C1 - JJC Multipurpose Cover.dwg Cover Sheet, 6/1/2015 10:13:28 AM, Ajbeighley



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

LEGEND

PROPOSED	DESCRIPTION	EXISTING
XXX.X	ELEVATION	XXX.X
XXX.XX / XXX.XX	T/C OR SIDEWALK ELEVATION / FLOW LINE OR PAVEMENT ELEVATION	
	P.C.C. CURB	
	STORM SEWER	
	MANHOLE	
	INLET	
	CATCHBASIN	
	FLARED END SECTION	
	PARKING LOT LIGHT	
	EMERGENCY CALL BOX	
EH	ELEVETRIC HANDHOLE	
	SIGN	
S	SANITARY SEWER	S
W	WATERMAIN	W
	PROPOSED RIPRAP	

PROPOSED SITE GRADING NOTES:

1.) UNLESS OTHERWISE NOTED, ALL PROPOSED GRADES ARE EITHER FINISHED PAVEMENT ELEVATIONS OR FINISHED LANDSCAPE ELEVATIONS.

2.) CONTRACTOR TO PREVENT EROSION ONTO EXISTING PAVEMENT.

3.) GRADE SLOPE SHALL NOT EXCEED 4 TO 1.

4.) CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL SITE AMENITIES.

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EAST ROAD ONTO HOUBOLT ROAD.

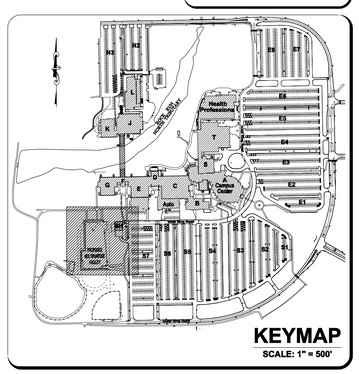
ELEVATION: 607.75 (NAVD 88)

SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

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LATEST R.T.& A. REVISION: 6-24-2015
FIELD BOOK & PAGE: JJC
R.T. & A. Dwg. No.: 401-0058-C1

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JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15

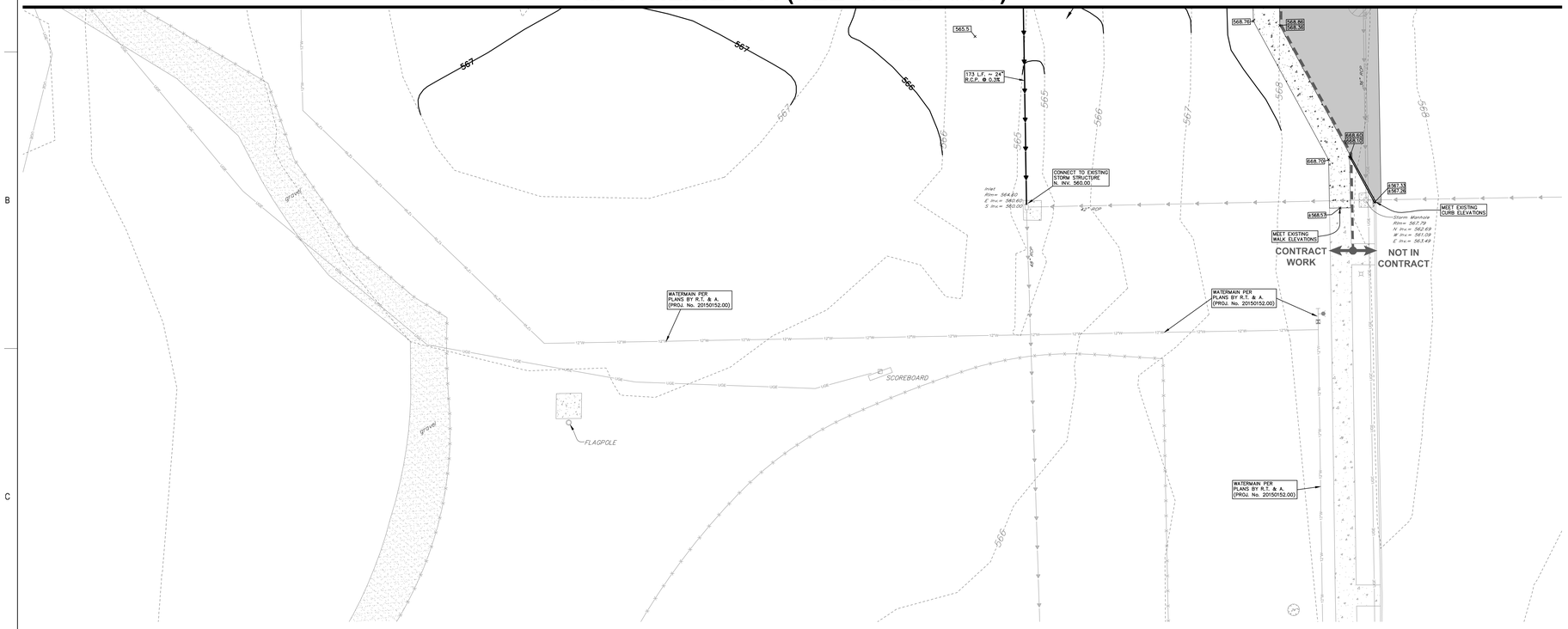
BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
1	BP–1 ADDENDUM 1	6–23–2015
2	BP–1 ADDENDUM 2	6–24–2015

SHEET TITLE:
PROPOSED SITE IMPROVEMENT PLAN (1 OF 2)

SHEET NUMBER:
C3.1

N:\Tech\2015\0058\Engineering\Plan Sheets\C3.1 - JJC Multipurpose Center\C3.1 - Proposed Site Improvement Plan.dwg 6/24/2015 2:12:20 PM by Angela



GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

PROPOSED	DESCRIPTION	EXISTING
XXX.X	ELEVATION	XXX.X
XXX.XX / XXX.XX	T/C OR SIDEWALK ELEVATION / FLOW LINE OR PAVEMENT ELEVATION	
	P.C.C. CURB	
	STORM SEWER	
	MANHOLE	
	INLET	
	CATCHBASIN	
	FLARED END SECTION	
	PARKING LOT LIGHT	
	EMERGENCY CALL BOX	
	ELEVETRIC HANDHOLE	
	SIGN	
	SANITARY SEWER	
W	WATERMAIN	W
	PROPOSED RIPRAP	

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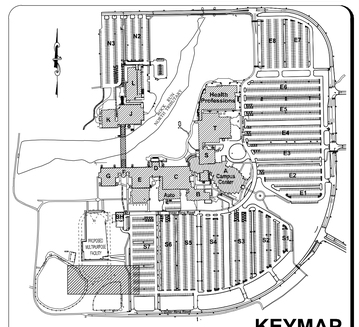

KEYMAP

SCALE: 1" = 500'

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FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

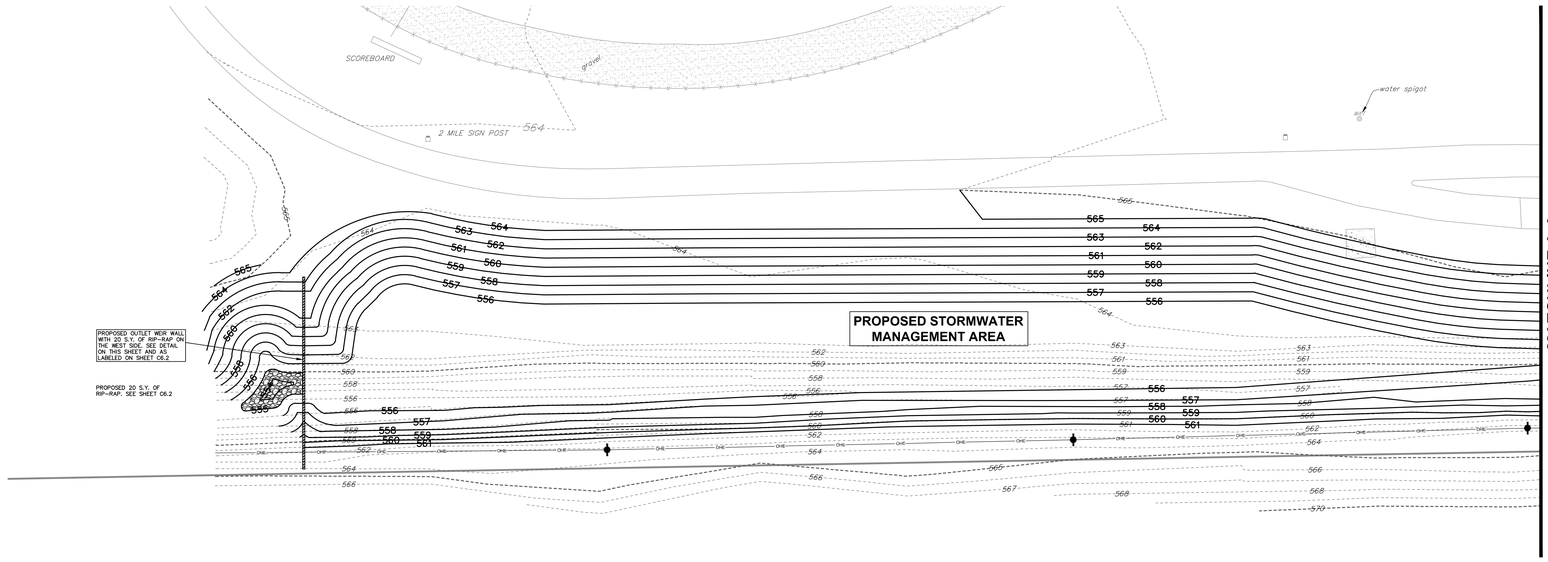
SHEET TITLE:

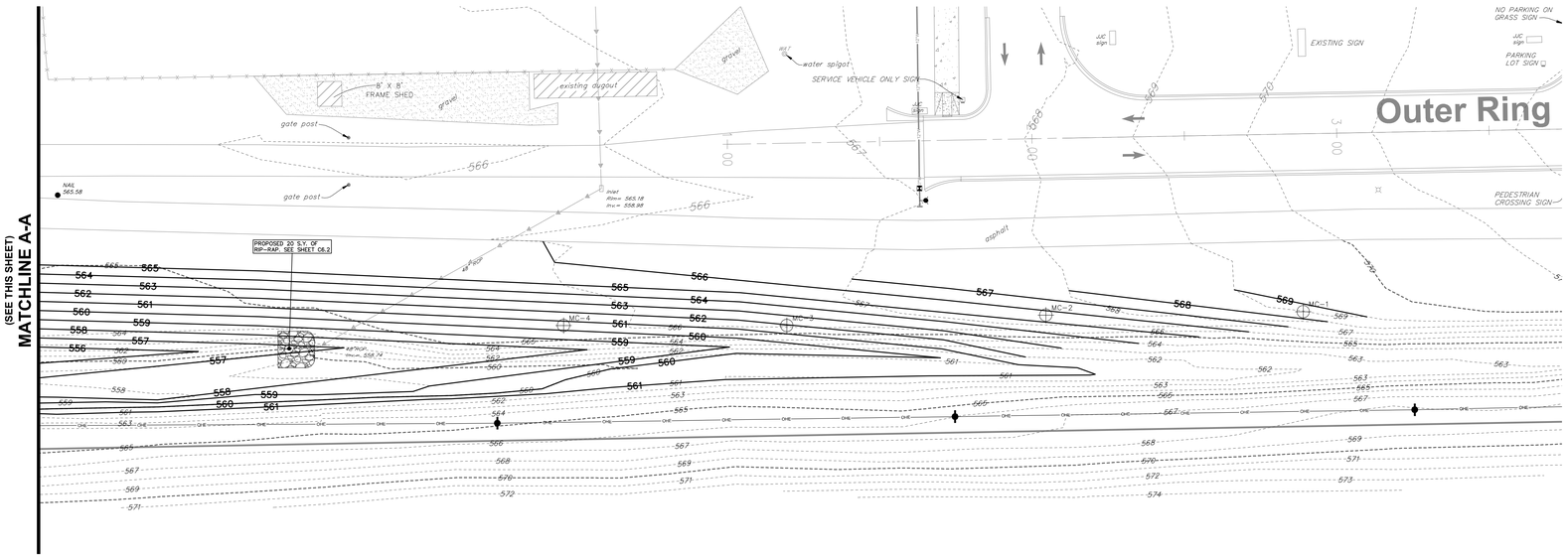
PROPOSED SITE IMPROVEMENT PLAN (2 OF 2)

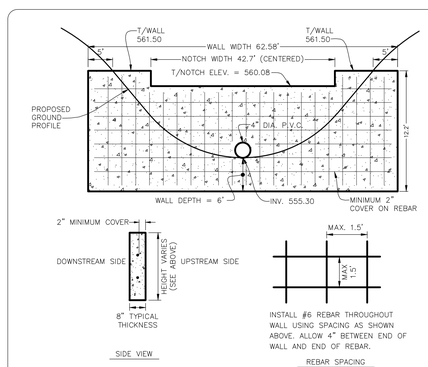
SHEET NUMBER:

C3.2

N:\Tech\20150058\Engineering\Plan Sets\C1 - JJC Multipurpose Center\DK C3.2 - Proposed Site Improvement Plan.02.dwg, Layout1, 6/1/2015 10:18:23 AM, Rpeipkes







OUTLET WEIR WALL DETAIL

NOT TO SCALE

GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

PROPOSED	DESCRIPTION	EXISTING
565 560	PROPOSED ELEVATIONS PER PREVIOUS IMPROVEMENT PLANS BY R.T. & A.	
XXX.X	ELEVATION	XXX.X
XXX	CONTOUR	XXX
XXX	PROPOSED CONTOUR PER PREVIOUS IMPROVEMENT PLANS BY R.T. & A.	
XXX.XX XXX.XX	T/C OR SIDEWALK ELEVATION FLOW LINE OR PAVEMENT ELEVATION	
	P.C.C. CURB	
	STORM SEWER	
	MANHOLE	
	INLET	
	CATCHBASIN	
	FLARED END SECTION	
	PARKING LOT LIGHT	
	EMERGENCY CALL BOX	
	ELEVETRIC HANDHOLE	
	SIGN	
	EXISTING TREE WITH PROPOSED PROTECTION	
	PROPOSED EROSION CONTROL SILT FENCE (SEE DETAIL SHEET C5.02)	
	PROPOSED EROSION CONTROL STRAW BALES (SEE DETAIL SHEET C5.02)	
	PROPOSED RIPRAP	

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JULIE ILLINOIS ONE-CALL SYSTEM

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48 Hours (2 Working Days) BEFORE YOU DIG.

Include the following:

County, City/Township, Section & ¼ Section No.

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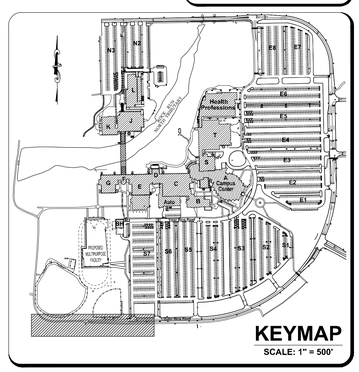
ELEVATION: 607.75 (NAVD 88)

SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP

SCALE: 1" = 500'

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FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

PROPOSED STORMWATER MANAGEMENT AREA

SHEET NUMBER:

C4.1

N:\Civil\2015\058\Engineering\Plan Sheet\C4.1 - JJC Multipurpose Cement\Sht C4.1 - Proposed Stormwater Management Area.dwg 6/2/2015 10:19:53 AM, Brandon

existing gravel path

concrete walk

R18.00'

R18.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

11.00'

16.74'

PROPOSED P.C.C. SIDEWALK (TYP.)

16.74'

8.00'

.00'

.00'

.00'

.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

9.07'

8.00'

9.00'

4.00'

PROPOSED 3' WIDE P.C.C. PLANTER EDGE BARRIER SEE DETAIL ON C7.1

25.98'

33.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

28.52'

8.00'

8.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

4.00'

ALTERNATE STORAGE AREA

32.59'

24.59'

8.00'

8.00'

4.00'

8.00'

8.00'

4.00'

20.03'

20.98'

16.29'

8.00'

PROPOSED 3' WIDE P.C.C. PLANTER EDGE BARRIER SEE DETAIL ON C7.1

PROPOSED P.C.C. SIDEWALK (TYP.)

11.90'

8.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

11.59'

8.00'

4.67'

4.67'

.00'

.00'

8.00'

4.00'

PROPOSED P.C.C. SIDEWALK (TYP.)

175.99'

PROPOSED P.C.C. SIDEWALK (TYP.)

102.15'

16.84'

20.00'

16.00'

PROPOSED A.D.A. RAMP WITH DETECTABLE WARNING.

10.00'

existing batting cages

gravel

GEOMETRIC PLAN NOTES

1.) ALL PARKING STALL, SAFETY ISLAND, NO PARKING AREAS AND CROSSWALK STRIPPING SHALL BE 4 INCH WIDE STANDARD I.D.O.T. YELLOW. DIAGONAL STRIPING SHALL BE 2 FT. ON CENTER.

2.) ALL SIGNS SHALL MEET THE REQUIREMENTS AND STANDARDS OF THE U.S. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION; THE ILLINOIS ADMINISTRATIVE CODE, LATEST ADDITION; AND ALL LOCAL ORDINANCES.

3.) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN TO THE BACK OF THE CURBLINE OR FACE OF THICKENED WALK WHERE APPLICABLE.

4.) ALL RADII ARE TO BACK OF CURB.

5.) UNLESS OTHERWISE SPECIFIED, ALL PROPOSED CURBS SHALL BE B-6.12 CONCRETE CURB AND GUTTER.

6.) P.C.C. SIDEWALK LOCATIONS SHOWN HEREON ARE FOR LOCATION REFERENCE ONLY. REFER TO THE SITE PAVING GEOMETRY PLAN (AS1.00) BY OTHERS FOR JOINT PATTERNS, COLOR SCHEMES AND STRUCTURAL STOOP REFERENCES.

SEE ARCHITECTURAL PLANS FOR FINAL BUILDING DIMENSIONS AND THAT THEY CONFORM TO THIS PLAN PRIOR TO ANY CONSTRUCTION.

PROPOSED MULTIPURPOSE FACILITY

BH
CONCRETE BUILDING

62.0'

2.7'

2.7'

68.9'

1.65'

2.7'

62.0'

gravel (EQUIPMENT AREA)

concrete

concrete

electric panel

CONTRACT WORK

NOT IN CONTRACT

PROPOSED M-4.12 CURB & GUTTER

PROPOSED A.D.A. RAMP WITH DETECTABLE WARNING.

8'-0"

PROPOSED P.C.C. BARRIER, SIDEWALK ADJACENT TO DROP-OFF AREA(TYP.)

8.00'

CONTRACT WORK

NOT IN CONTRACT

10.00'

CONTRACT WORK

NOT IN CONTRACT

10'00"

MATCHLINE A-A
(SEE THIS SHEET)

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- EXISTING CURB
- PROPOSED CURB
- EXISTING PAVEMENT AREA
- PROPOSED STANDARD DUTY PAVEMENT AREA
- ◠ XX.XX' ARC DISTANCE
- XX.XX' B/C BACK OF CURB DISTANCE
- XX.XX' F-F FACE TO FACE OF CURB DISTANCE
- XX.XX' F/W FACE OF WALK DISTANCE
- XX.XX' B-B BACK TO BACK OF CURB DISTANCE
- XX.XX' E-E EDGE TO EDGE OF PAVEMENT DISTANCE
- XX.XX' E/P TO EDGE OF PAVEMENT DISTANCE
- PROPOSED SIGN
- PROPOSED LIGHT BASE

(SEE THIS SHEET)
MATCHLINE A-A

CONTRACT WORK

NOT IN CONTRACT

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.

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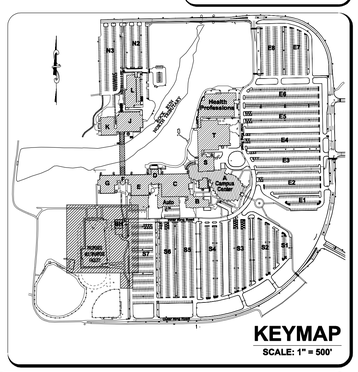
FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

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DKA PROJECT NO:14-004

KEY PLAN:

SHEET STATUS: 06/01/15

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ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
1	BP-1 ADDENDUM 1	6-23-2015
2	BP-1 ADDENDUM 2	6-24-2015

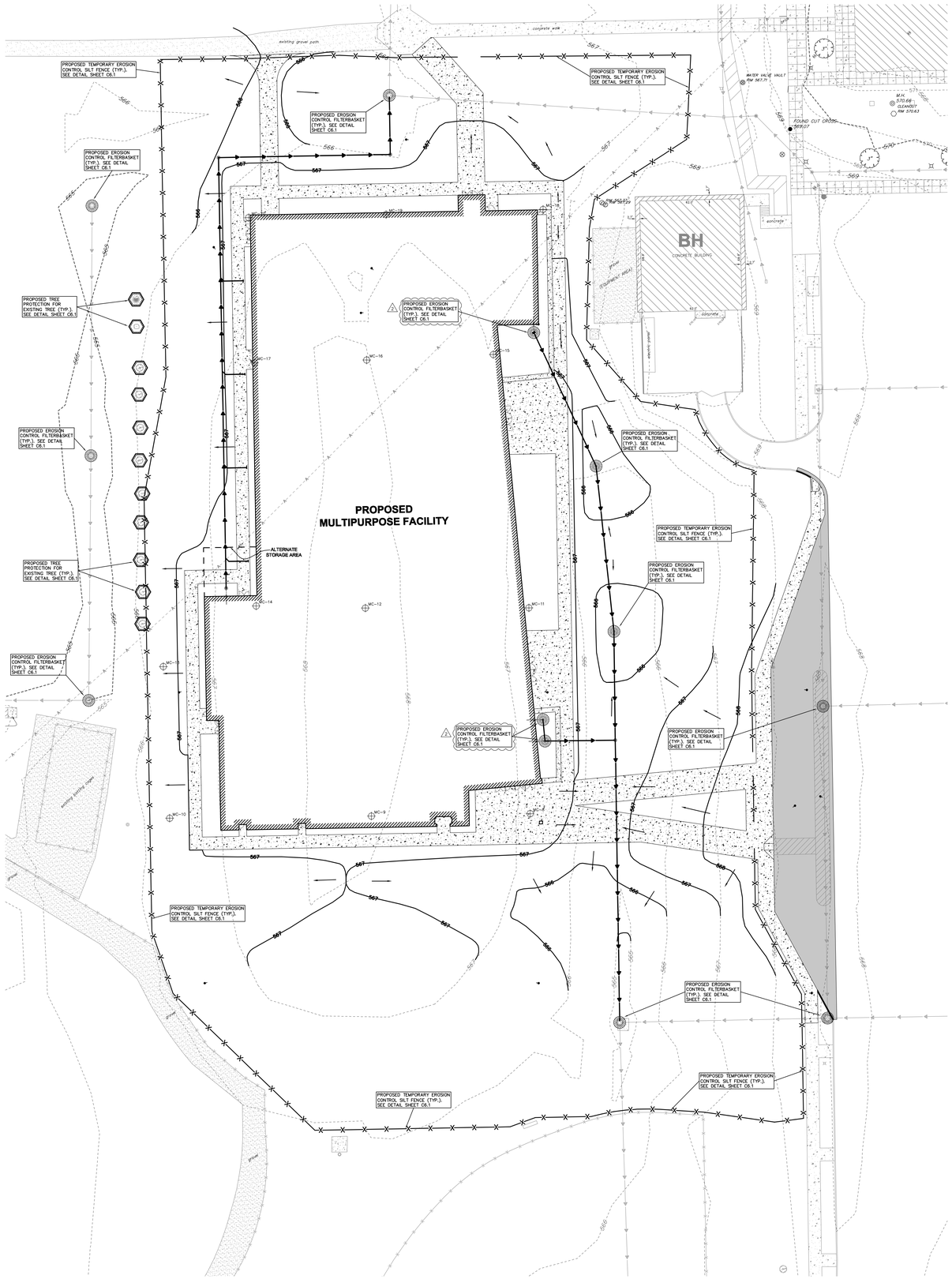
SHEET TITLE:

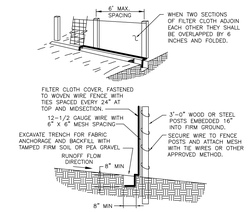
PROPOSED GEOMETRY PLAN

SHEET NUMBER:

C5.1

N:\Work\2150068\Engineering\Plan Sets\C1 - JJC Multipurpose Center\Dft\ C5.1 - Proposed Site Geometry Plan.dwg, 6/24/2015 2:14:48 PM, dmorales

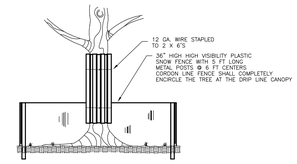




NOTES FOR SILT FENCE

1. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
2. FILTER CLOTH SHALL BE FILTER X, MIRAFI 100X, STABILINKA T140N, OR EQUAL.
3. PREFABRICATED UNIT SHALL BE GEOFAB, ENVIROFENCE, OR EQUAL.

SILT FENCE INSTALLATION
NOT TO SCALE

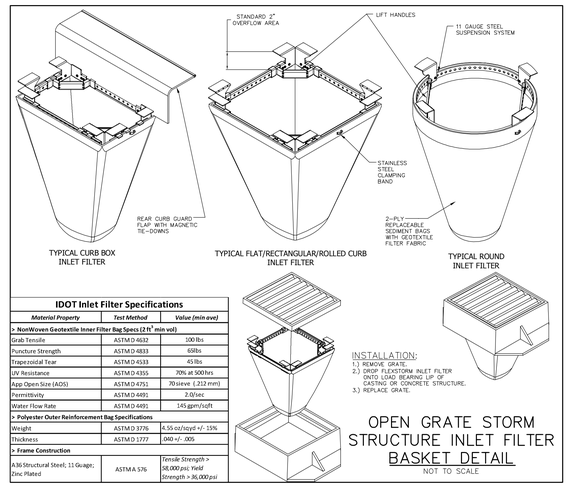


TREE PROTECTION DETAIL
NOT TO SCALE

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

LEGEND

XXX.X	EXISTING ELEVATION
	EXISTING STORM SEWER
	EXISTING STORM M.H.
	EXISTING INLET
	EXISTING CATCHBASIN
	PROPOSED TEMPORARY EROSION CONTROL SILT FENCE
	PROPOSED INLET FILTER BASKETS
	PROPOSED STORM SEWER
	PROPOSED MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED INLET



IDOT Inlet Filter Specifications

Material Property	*Test Method*	*Value (min ave)*
> NonWoven Geotextile Inner Filter Bag Specs ($2 ft^3$ min vol)		
Grab Tensile	ASTM D 4632	100 lbs
Puncture Strength	ASTM D 4833	65lbs
Trapezoidal Tear	ASTM D 4533	45 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs
App Open Size (AOS)	ASTM D 4751	#5 sieve (.212 mm)
Permittivity	ASTM D 4491	2.0/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel; 11 Guage; Zinc Plated	ASTM A 576	*Tensile Strength > 58,000 psi Yield Strength > 36,000 psi*

INSTALLATION:
1.) REMOVE GRATE.
2.) DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
3.) REPLACE GRATE.

OPEN GRATE STORM STRUCTURE INLET FILTER BASKET DETAIL
NOT TO SCALE

EROSION CONTROL NOTES

1. EROSION CONTROL TO BE APPLIED PER THE ILLINOIS PROCEDURES FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL MANUAL, LATEST EDITION.
2. THE TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE PROPERLY MAINTAINED AS DIRECTED BY THE CITY TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT.
3. ALL STORM SEWER STRUCTURES WITH OPEN GRATES SHALL BE PROTECTED WITH INLET FILTER BASKETS.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN (7) SEVEN CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE, RE-DISTURBANCE, CONSISTENT WITH THE FOLLOWING CRITERIA. APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL INCLUDE SEEDING, MULCHING, SODDING AND / OR NON-VEGETATIVE MEASURES.
5. ALL EROSION CONTROL ITEMS REMAIN IN PLACE AND BE MAINTAINED UNTIL DEEMED UNNECESSARY BY THE OWNER / DEVELOPER AND THE CITY AT WHICH TIME THE EROSION CONTROL ITEMS SHALL BE COMPLETELY REMOVED FROM THE SITE BY THE INSTALLER.
6. ALL DISTURBED AREAS NOT SPECIFICALLY IDENTIFIED FOR LANDSCAPING IMPROVEMENTS OR IMPERVIOUS SURFACE TREATMENTS SUCH AS PAVEMENTS, DRIVES, PATIOS, STOOPS, SIDEWALKS OR WALKWAYS SHALL BE FINISHED WITH A MINIMUM OF 4" OF TOPSOIL AND RESTORED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST ADDITION) AS FOLLOWS:
   - CLASS 2 SEED PER SECTION 250.
   - FERTILIZED NUTRIENTS IN THE RATIO OF 1:1:1 OF NITROGEN, PHOSPHOROUS AND POTASSIUM EACH, ALL AT THE RATE OF 90 LBS/ACRE IN ACCORDANCE WITH SECTION 250.
   - EROSION CONTROL BLANKET: EXCELSIOR GREEN BLANKET (I.D.O.T. SEC. 251.04)
   - CONTRACTOR SHALL MAINTAIN RESTORED AREA AS NEEDED UNTIL GERMINATION IS COMPLETED AND THE OWNER, OR LOCAL AGENCY HAVING JURISDICTION, HAS ACCEPTED THE WORK.
7. FOR EACH PHASE OF WORK, THE CONTRACTOR RESPONSIBLE FOR THAT WORK IS TO PROVIDE QUALIFIED PERSONNEL WHO SHALL INSPECT:
   - DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN STABILIZED WITH IMPERVIOUS MATERIALS OR VEGETATIVE GROUND COVER.
   - STRUCTURAL CONTROL MEASURES (I.E. SILT FENCE, FILTER BASKETS, GRATE FABRIC, ETC.).
   - OFF SITE ROADS AND ON SITE PAVEMENTS WHICH THE CONTRACTOR'S VEHICLES AND OR EQUIPMENT OPERATE.

SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT HAS 0.5 INCHES OR MORE OF PRECIPITATION.

ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN INSPECTION REQUIREMENTS.

SITE BENCHMARK 1:

HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.

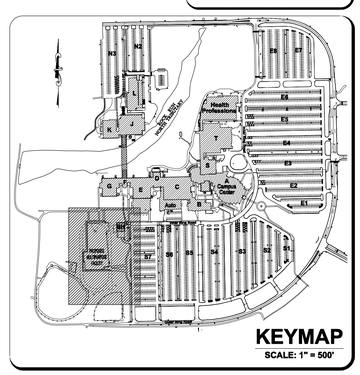
ELEVATION: 607.75 (NAVD 88)

SITE BENCHMARK 2:

CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.

ELEVATION = 564.18 (NAVD 88)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

Ruettiger, Tonelli & Associates, Inc.
Surveyors• Engineers• Planners• Landscape Architects• G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

LATEST R.T.& A. REVISION: 6-24-2015
FIELD BOOK & PAGE: JJC
R.T. & A. Dwg. No.: 401-0058-C1

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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P: 312.496.0000

STRUCTURAL AND MEP/FP ENGINEERING
KJWW ENGINEERING CONSULTANTS
1100 WARRENVILLE RD. SUITE
400W NAPERVILLE, IL 60563
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CIVIL ENGINEERING
RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DRIVE
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 06/01/15

BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
1	BP–1 ADDENDUM 1	6–23–2015
2	BP–1 ADDENDUM 2	6–24–2015

SHEET TITLE:

EROSION CONTROL PLAN (1 OF 2)

SHEET NUMBER:

C6.1

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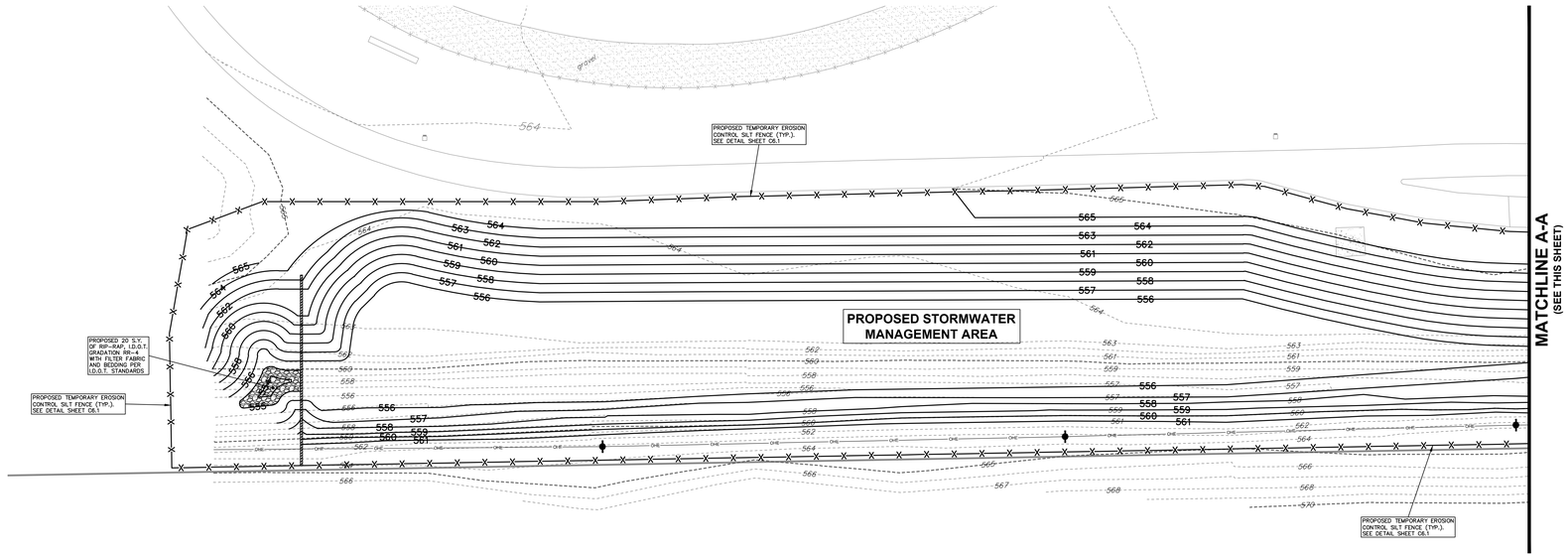

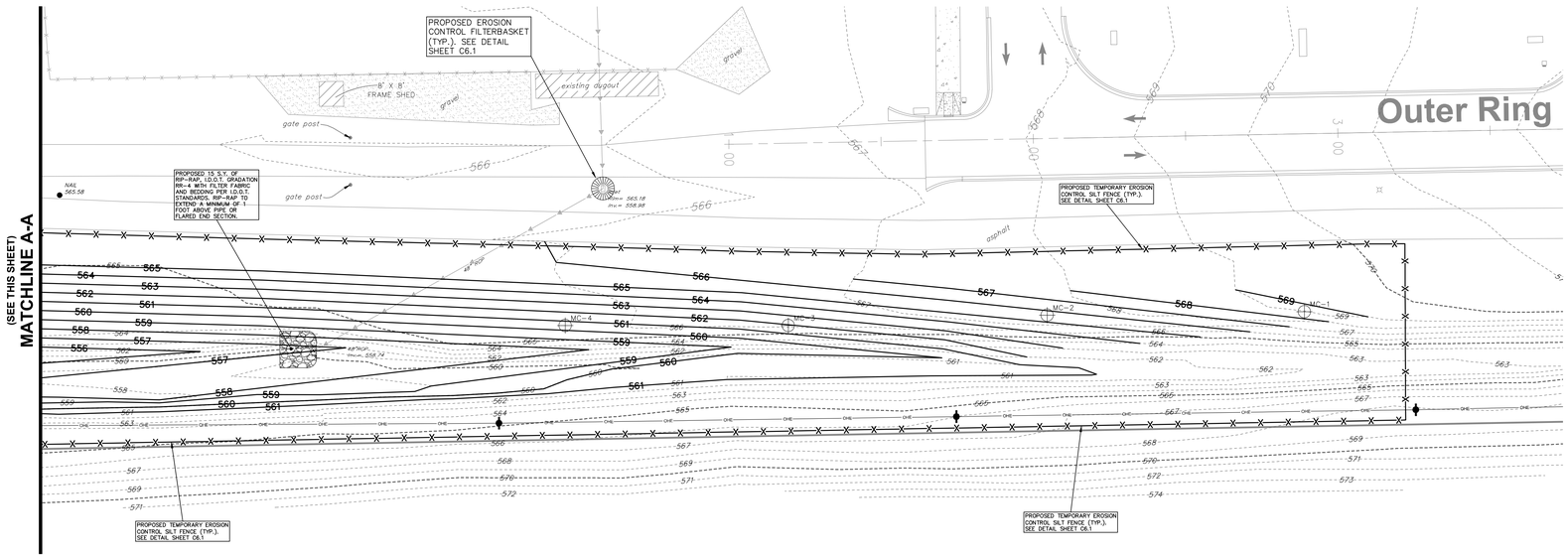

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

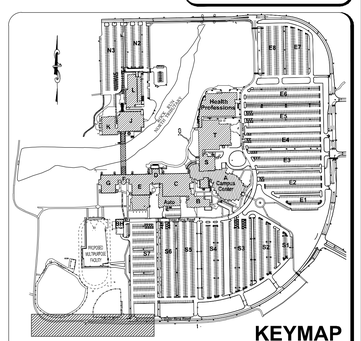
1215 HOUBOLT ROAD, IL 60431

DKA PROJECT NO:14-004

KEY PLAN:

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
CONTACT J.U.L.I.E. at 811 or 800-892-0123
48 Hours (2 Working Days) BEFORE YOU DIG.
Include the following:
County, City/Township, Section & ¼ Section No.

SITE BENCHMARK 1:
HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.
ELEVATION: 607.75 (NAVD 88)
SITE BENCHMARK 2:
CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.
ELEVATION = 564.18 (NAVD 88)
FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



KEYMAP
SCALE: 1" = 500'

SHEET STATUS: 06/01/15
BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EROSION CONTROL PLAN (2 OF 2)

SHEET NUMBER:
C6.2

Ruettiger, Tonelli & Associates, Inc.
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LATEST R.T.& A. REVISION: 6-1-2015
FIELD BOOK & PAGE: JJC

R.T. & A. Dwg. No.: 401-0058-C1

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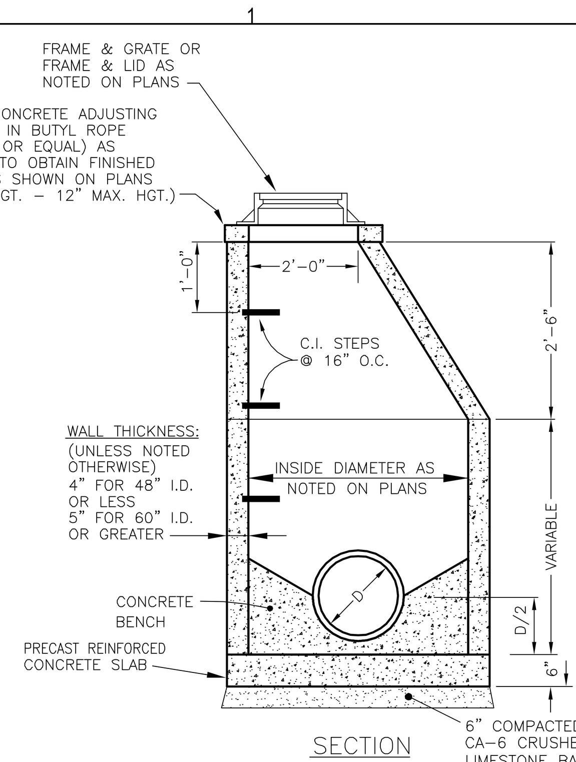
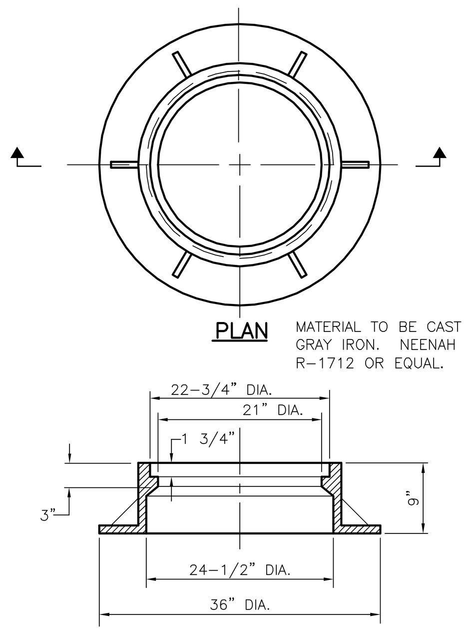


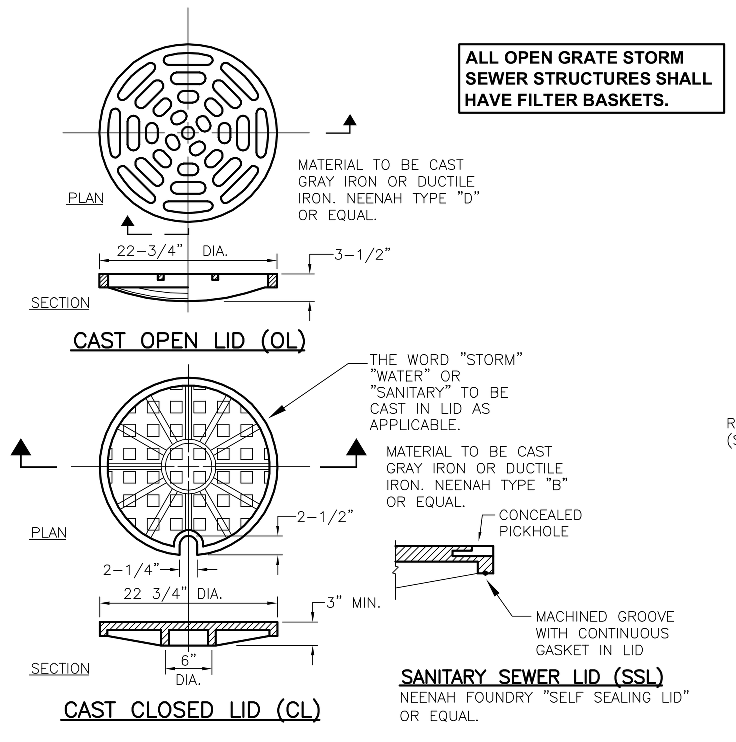
NOTES:

1. MANHOLE SHALL BE PRECAST REINFORCED CONCRETE. PER ASTM C-478
2. ALL LIFT HOLES SHALL BE SEALED WITH NON SHRINK GROUT.
3. PROVIDE TEMPORARY FILTER FABRIC UNDER ALL OPEN GRATES.

TYPE "A" STORM MANHOLE
NOT TO SCALE

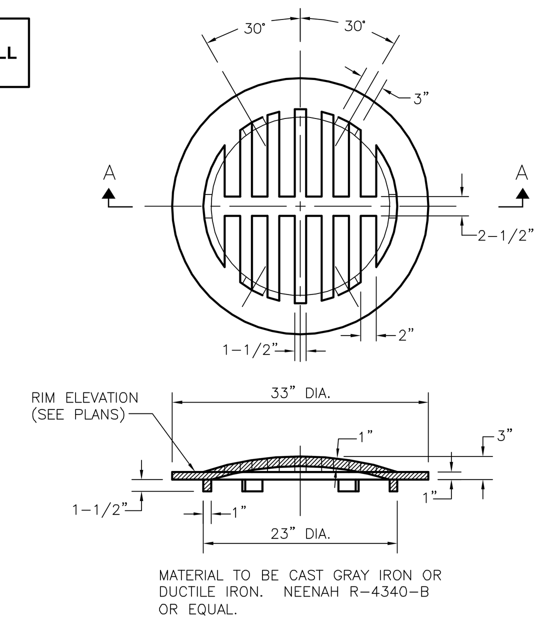


TYPE 1 FRAME
NOT TO SCALE

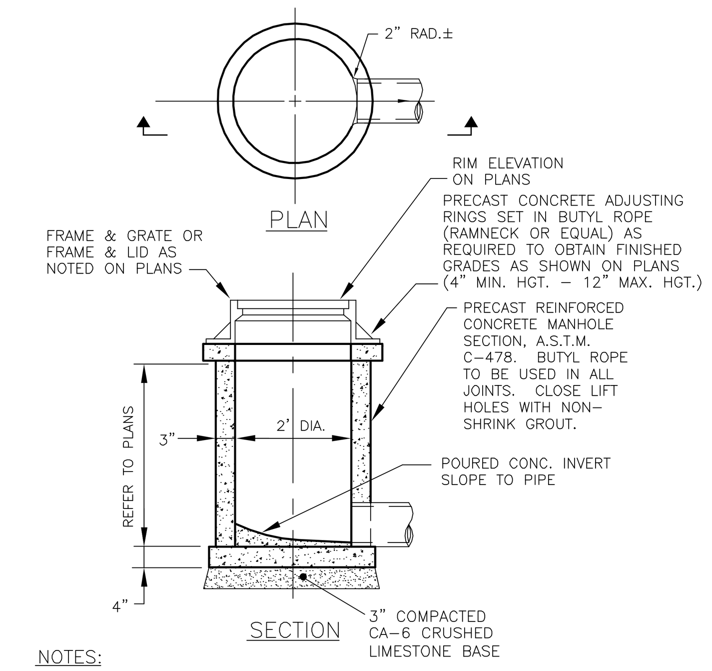


LIDS FOR TYPE 1 FRAME
NOT TO SCALE

ALL OPEN GRATE STORM SEWER STRUCTURES SHALL HAVE FILTER BASKETS.



TYPE 8 GRATE
NOT TO SCALE



NOTES:

1. MANHOLE SHALL BE PRECAST REINFORCED CONCRETE. PER ASTM C-478
2. ALL LIFT HOLES SHALL BE SEALED WITH NON SHRINK GROUT.
3. PROVIDE TEMPORARY FILTER FABRIC UNDER ALL OPEN GRATES.

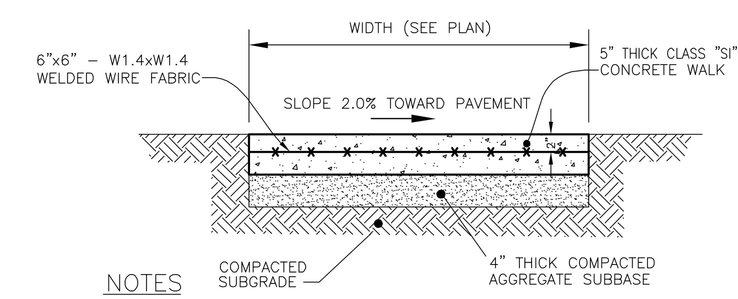
TYPE A STORM INLET
NOT TO SCALE

1. **FOR THE FOLLOWING ITEMS, REFER TO THE ARCHITECTURAL PLANS:**
   BUILDING DIMENSIONS
   STRUCTURAL DESIGN AND DETAILS
   CONCRETE SURFACE JOINTING DESIGN AND DETAILS
   BUILDING SERVICE LOCATIONS
   ROOF DRAINAGE CONNECTIONS
   SITE LIGHTING DESIGN AND DETAILS
   SITE SIGNAGE DESIGN AND DETAILS
   LANDSCAPE DESIGN AND DETAILS
   CONSTRUCTION MANAGEMENT, SCHEDULING AND / OR PHASING
   ALL ITEMS ON THESE PLANS NOTED "SEE ARCHITECTURAL PLANS"
2. UNLESS OTHERWISE NOTED; ALL DIMENSIONS, STATIONING, AND GRADES SHOWN ARE REFERENCED TO THE BACK OF, AND THEREFORE THE TOP OF THE CURBLINE.
3. ALL NEW CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION; AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" – ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
4. THE OWNER AND/OR CONTRACTOR ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) RELATIVE TO STORM WATER DISCHARGE QUALITY, AND OBTAIN A GENERAL PERMIT ILR-10 OR OTHER NATIONAL POLLUTANT ELIMINATION SYSTEM (NPDES) PERMIT AS MAY BE REQUIRED PRIOR TO ANY SITE CONSTRUCTION.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CONSTRUCTION MANAGER.
6. UNLESS NOTED OTHERWISE, ANY UNDERGROUND SEWER OR DRAIN TILE SHALL REMAIN IN OPERATION, AND IF DAMAGED SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. THE OWNER OF THE TILE AND THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE TRENCH IS BACKFILLED.
7. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE OWNER, CONSTRUCTION MANAGER AND ENGINEER IF THERE IS ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY STAGE OF CONSTRUCTION OF PROPOSED IMPROVEMENTS.
8. GRANULAR BACKFILL TO BE CRUSHED LIMESTONE CA-6.
9. ALL PROPOSED ROOF DRAINAGE SHALL BE DIRECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM. WHERE APPLICABLE, EXISTING ROOF DRAINS SHALL BE DIRECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETELY REMOVE AND PROPERLY DISPOSE OF EXISTING STRUCTURES, DEBRIS, WASTES AND VEGETATION FROM THE SITE AS NOTED ON THE PLAN OR AS MAY BE REQUIRED TO PROPERLY COMPLETE HIS WORK. ALL DEBRIS AND SURPLUS MATERIALS REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NO ON-SITE BURNING OR BURIAL SHALL BE ALLOWED.

    THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER AT ALL TIMES. DEBRIS AND SURPLUS MATERIAL CLEAN UP AND REMOVAL SHALL PROCEED AS THE WORK PROCEEDS.
11. TRAFFIC CONTROL
    ALL WORK CONDUCTED WITHIN ANY PUBLIC AREAS SHALL BE GOVERNED BY THE APPLICABLE ARTICLES OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OF ANY IMPROVEMENTS, LOADING AND UNLOADING OF MATERIALS, MOBILIZATION OF EQUIPMENT, CLEANING OF PAVEMENTS, OR WHENEVER THE SAFETY OF WORKERS OR TRAFFIC MAY BE AN ISSUE.

    TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELING DEVICES, WARNING LIGHTS, ARROW BOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION, AND ARRANGEMENT OF ALL TRAFFIC. ANY DROP OFF GREATER THAN TWO INCHES WITHIN EIGHT FEET OF THE PAVEMENT EDGE SHALL BE PROTECTED BY TYPE I OR II BARRICADES WITH IDOT APPROVED WARNING LIGHTS.

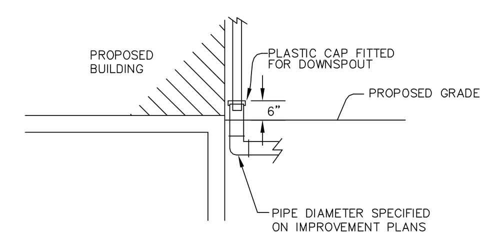
    TRAFFIC CONTROL DEVICES AND MEASURES SHALL BE SUBJECT TO APPROVAL AND INSPECTION BY CONSTRUCTION MANAGER.



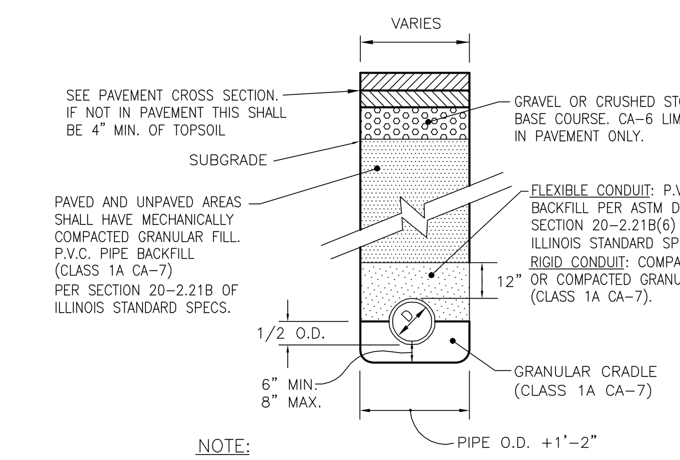
NOTES

1. ALL SIDEWALK JOINTING FINISHES TO BE COORDINATED WITH SHEET AS1.00
2. ASPHALTIC FELT EXPANSION JOINTS SHALL BE PROVIDED 20'-0" ON CENTER. WITH 1/2" DEEP CONTROL (FALSE) JOINTS AS NOTED ON ARCHITECTURAL SITE PLAN CONCRETE SCORING PATTERN. ALL JOINTS SHALL BE SAWCUT AND TOOLED.

TYPICAL SIDEWALK
NOT TO SCALE



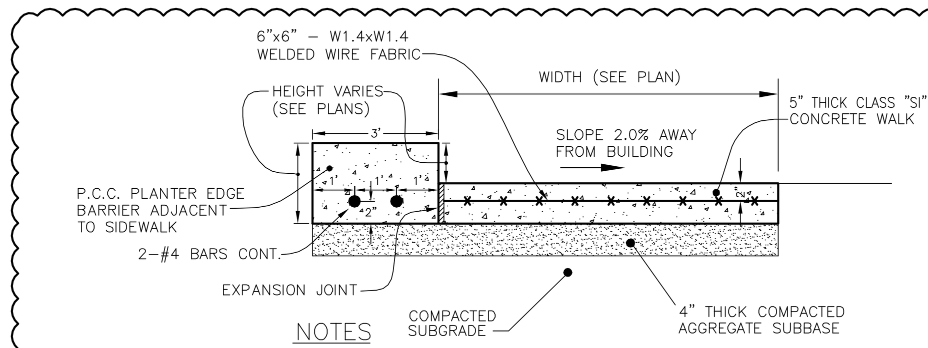
TYPICAL CROSS-SECTION OF ROOF DRAIN AT PROPOSED BUILDING
N.T.S.



NOTE:
GRANULAR BACKFILL IS REQUIRED FULL DEPTH

TYPICAL UTILITY TRENCH
NOT TO SCALE

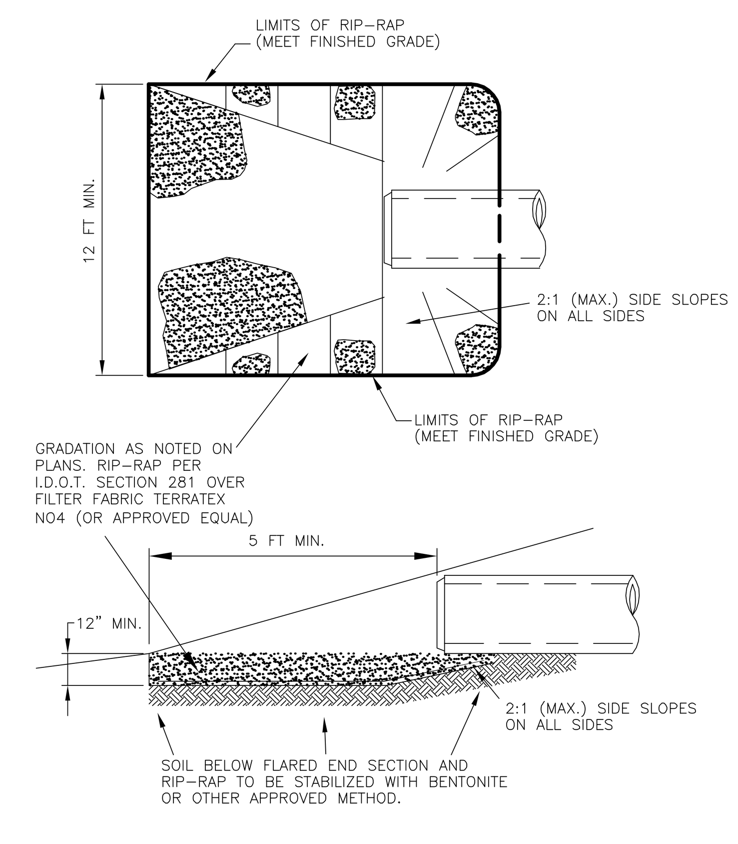
2



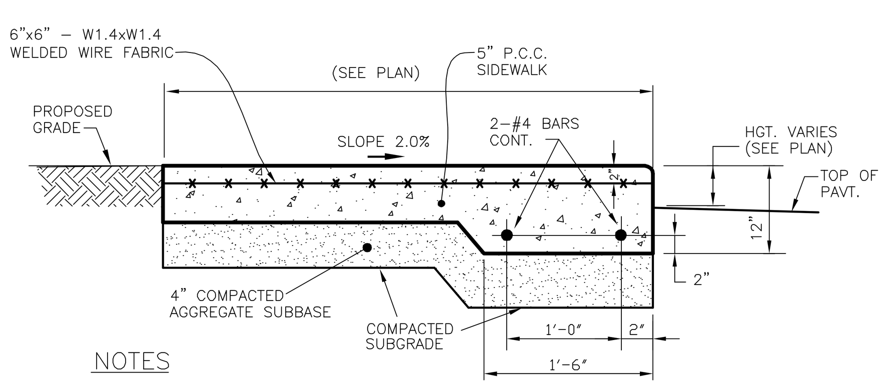
NOTES

1. ALL SIDEWALK JOINTING FINISHES TO BE COORDINATED WITH SHEET AS1.00
2. ASPHALTIC FELT EXPANSION JOINTS SHALL BE PROVIDED 20'-0" ON CENTER. WITH 1/2" DEEP CONTROL (FALSE) JOINTS AS NOTED ON ARCHITECTURAL SITE PLAN CONCRETE SCORING PATTERN. ALL JOINTS SHALL BE SAWCUT AND TOOLED.

P.C.C. PLANTER EDGE BARRIER
NOT TO SCALE



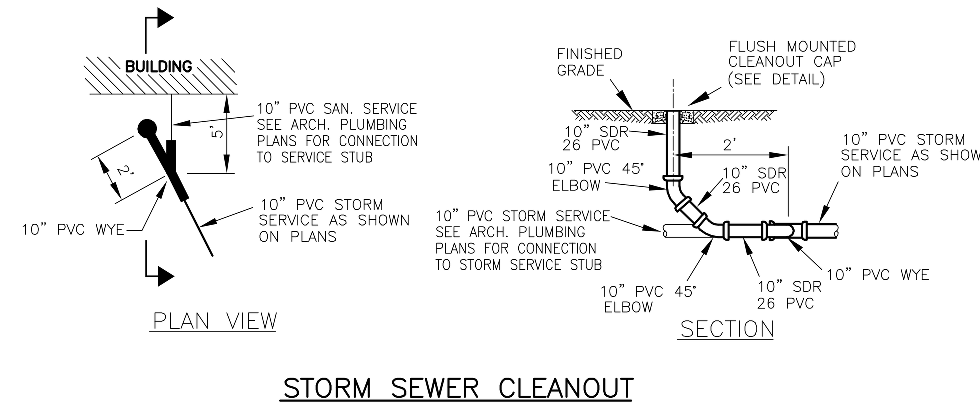
OUTLET PIPE RIP-RAP INSTALLATION
NOT TO SCALE



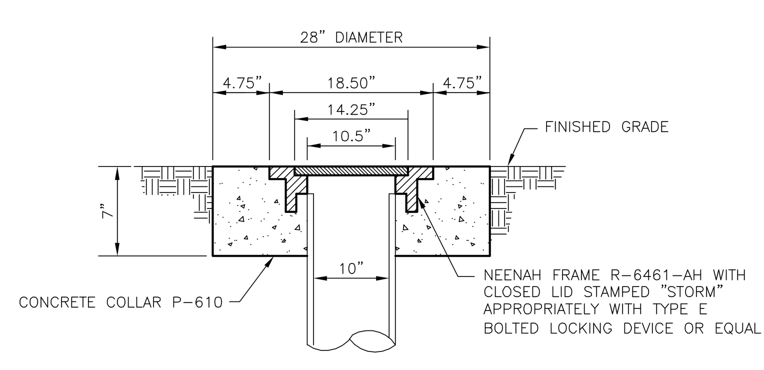
NOTES

1. ALL SIDEWALK JOINTING FINISHES TO BE COORDINATED WITH SHEET AS1.00
2. SURFACE TO BE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE SIDEWALK.
3. ASPHALTIC FELT EXPANSION JOINTS SHALL BE PROVIDED 20'-0" ON CENTER. WITH 1/2" DEEP CONTROL (FALSE) JOINTS AS NOTED ON ARCHITECTURAL SITE PLAN CONCRETE SCORING PATTERN. ALL JOINTS SHALL BE SAWCUT AND TOOLED.

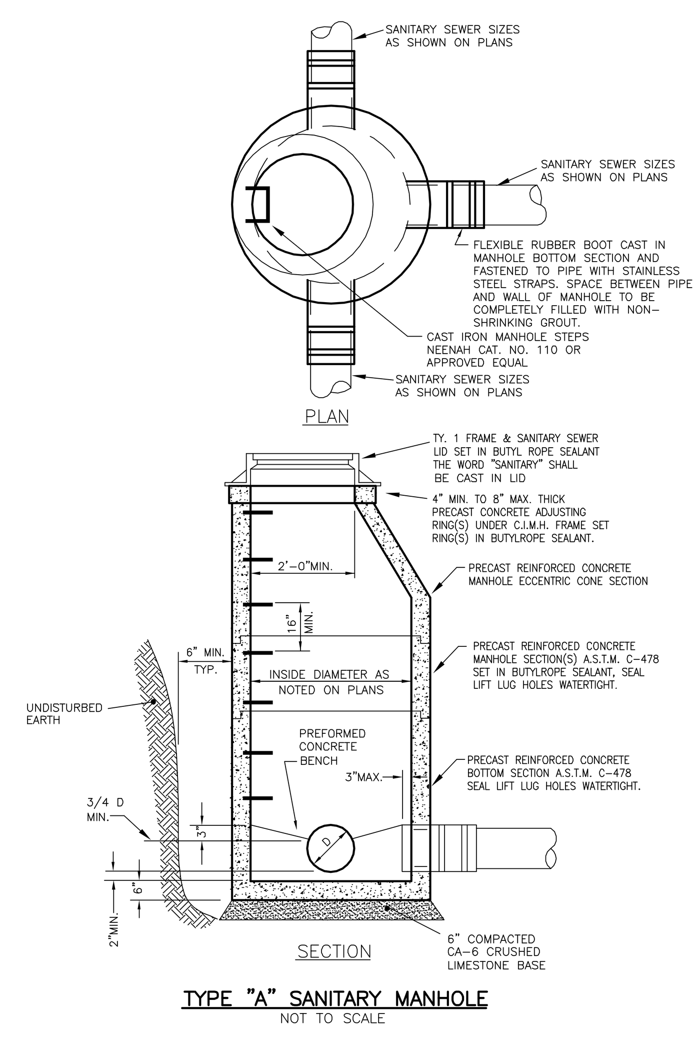
P.C.C. BARRIER SIDEWALK
NOT TO SCALE



STORM SEWER CLEANOUT
NOT TO SCALE

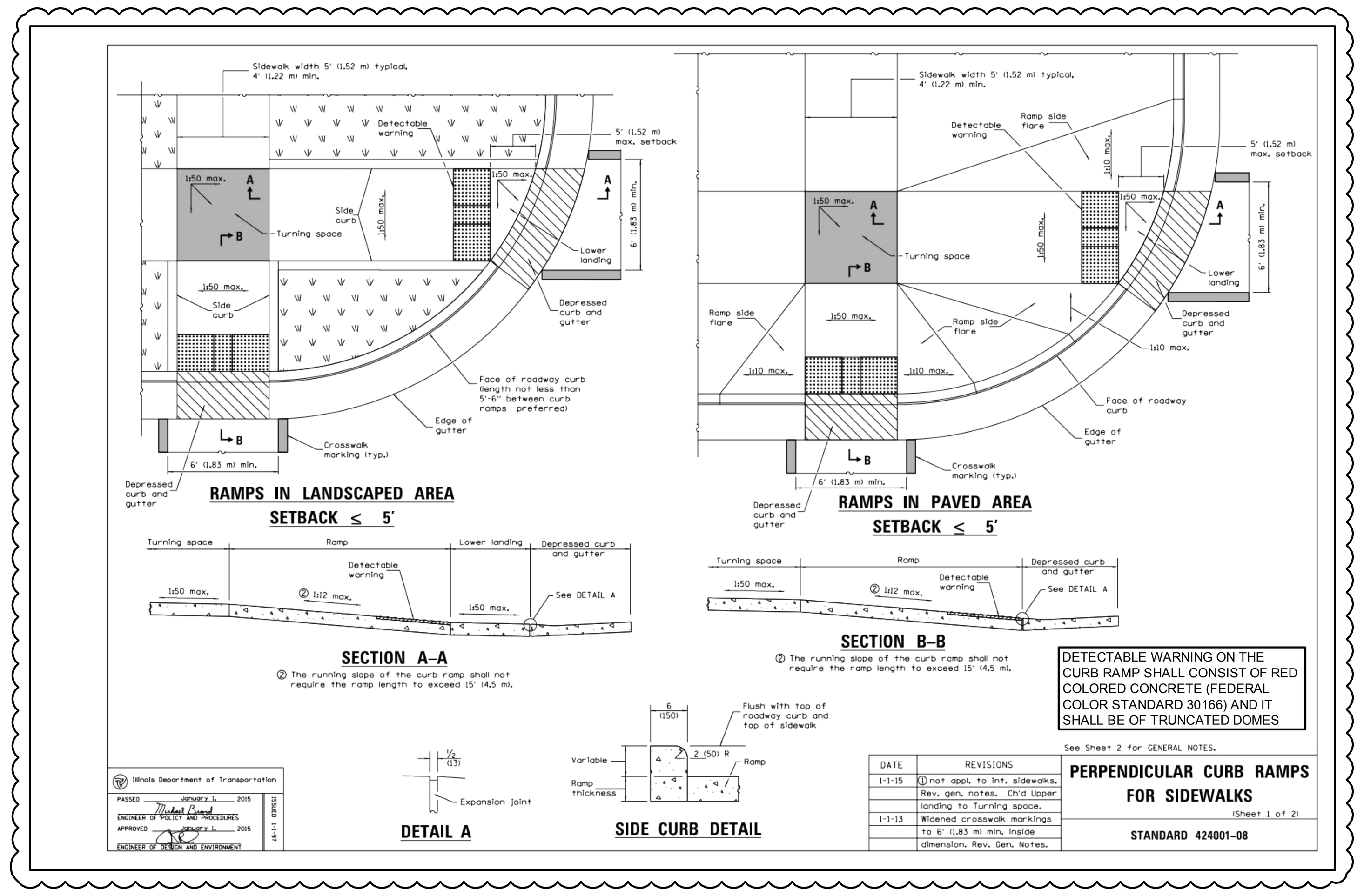


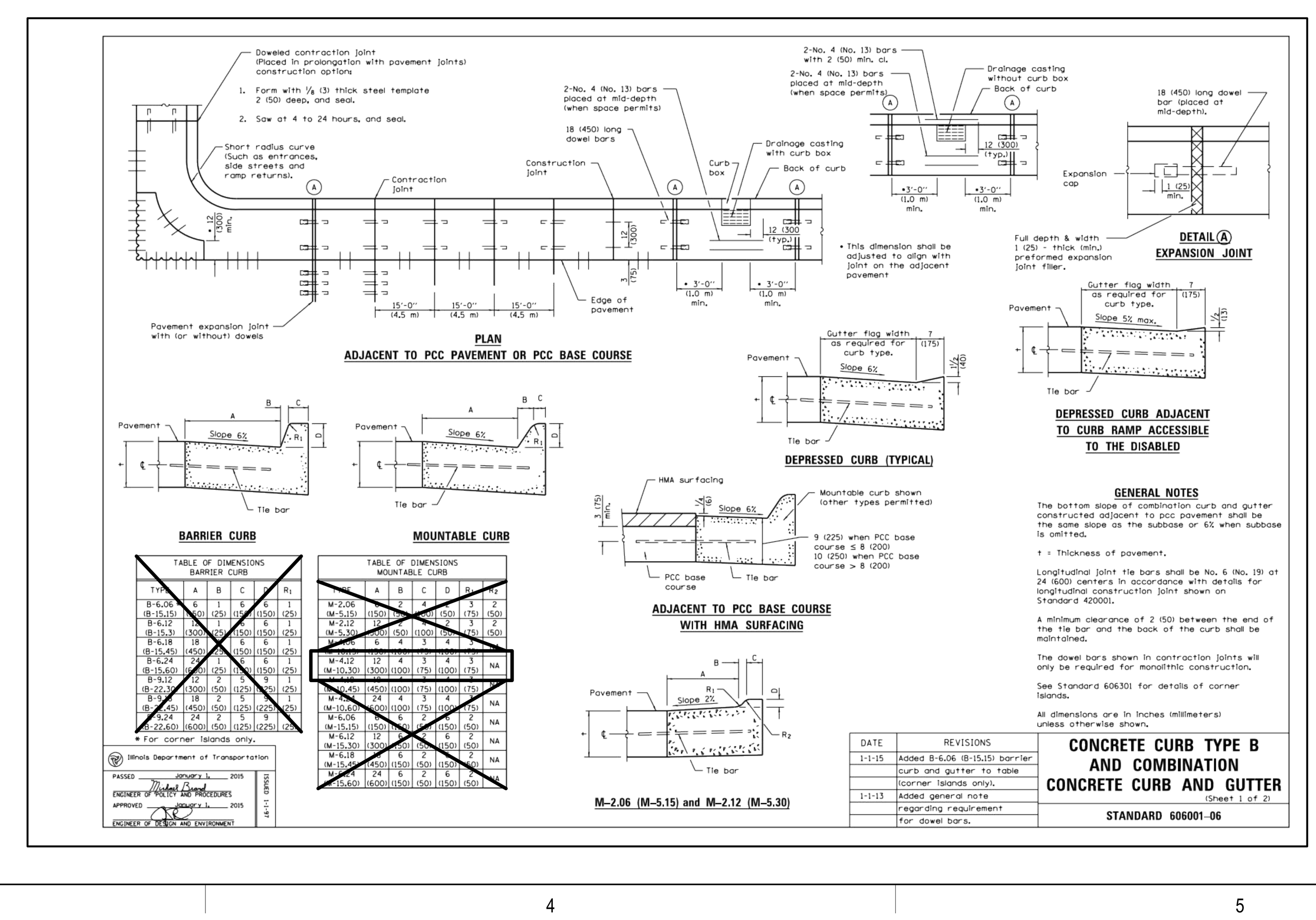
FLUSH MOUNTED CLEANOUT CAP
NOT TO SCALE



TYPE "A" SANITARY MANHOLE
NOT TO SCALE

2





STORM SEWER AND SANITARY SEWER NOTES:

SANITARY SEWER & WATER MAIN SEPARATION SHALL CONFORM TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

SANITARY SEWER:

1. SANITARY SEWER MAIN SHALL BE PVC SDR-26 (AS NOTED IN PLANS), SERVICES SHALL BE P.V.C. SDR-35 PER A.S.T.M. D-3034 (6"-8") AND ASTM F-679-89(18") WITH FLEXIBLE ELASTOMERIC SEALS PER A.S.T.M. D3212 OR APPROVED EQUAL.
2. GRANULAR BEDDING SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE INSTALLATION OF ALL SANITARY SEWERS AND SERVICES, GRANULAR BEDDING SHALL BE CLASS 1 CRUSHED CA-7 AND AT LEAST 6" OVER TOP OF PIPE PER ASTM D2321.
3. SANITARY SEWER SHALL BE AIR PRESSURE TESTED PER THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION). SANITARY SEWER SHALL BE MANDREL TESTED AND A VIDEO INSPECTION PERFORMED WITH THE VIDEO AND A WRITTEN REPORT SENT TO THE CITY.
4. SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C969-94 AND DOCUMENTED WITH RESULTS FORWARDED TO THE CONSTRUCTION MANAGER.
5. PROVIDE TRACER WIRE AND EXCAVATION WARNING TAPE FOR THE SANITARY SEWER.

STORM SEWER:

1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 CLASS SHOWN ON DRAWINGS, O-RING JOINTS CONFORMING TO ASTM C443.
2. ALL FLARED END SECTIONS SHALL HAVE A GRATE PER I.D.O.T. STANDARD 2364-3 AND 2379-2, AND AN END BLOCK PER I.D.O.T. STANDARD 2249-1.

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
CONTACT J.U.L.I.E. at 811 or 800-892-0123
48 Hours (2 Working Days) BEFORE YOU DIG.
Include the following:
County, City/Township, Section & 1/4 Section No.

Ruettiger, Tonelli & Associates, Inc.
Surveyors• Engineers• Planners• Landscape Architects• G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com
LATEST R.T.& A. REVISION: 6-24-2015
FIELD BOOK & PAGE: JJC
R.T. & A. Dwg. No.: 401-0058-C1

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

STRUCTURAL AND MEP/FP ENGINEERING
KJWW ENGINEERING CONSULTANTS
1100 WARRENVILLE RD. SUITE 400W NAPERVILLE, IL 60563
P: 630.527.2320

CIVIL ENGINEERING
RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DRIVE
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, IL 60431
DKA PROJECT NO:14-004

KEY PLAN:

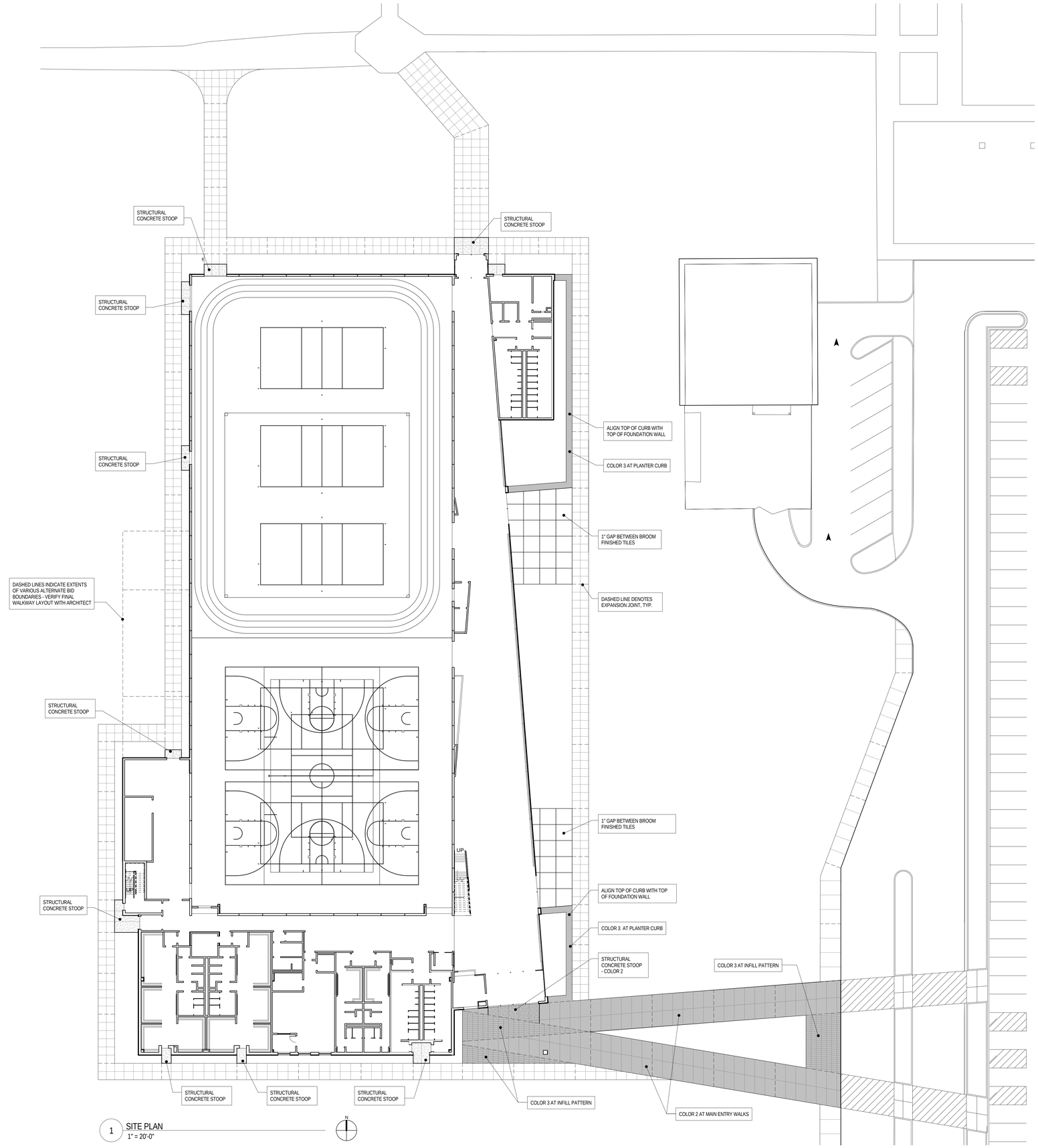
SHEET STATUS: 06/01/15
BID PACKAGE 1
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
1	BP-1 ADDENDUM 1	6-23-2015
2	BP-1 ADDENDUM 2	6-24-2015

SHEET TITLE:
GENERAL NOTES AND CONSTRUCTION DETAILS

SHEET NUMBER:
C7.1

N:\Tech\2015\0058\Engineering\Plan Sets\C1 - JJC Multipurpose Center\Sht C7.1 - General Notes and Construction Details.dwg, Layout1, 6/24/2015 2:16:36 PM, rpeeples



1 SITE PLAN
1" = 20'-0"

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR GRADES AND ELEVATIONS
2. SEE CIVIL DRAWINGS FOR EXTENTS OF PROPOSED WORK
3. ALL NEW SITE CONCRETE IS COLOR 1 EXCEPT WHERE NOTED OTHERWISE

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
SITE PAVING GEOMETRY PLAN

SHEET NUMBER:
AS1.00

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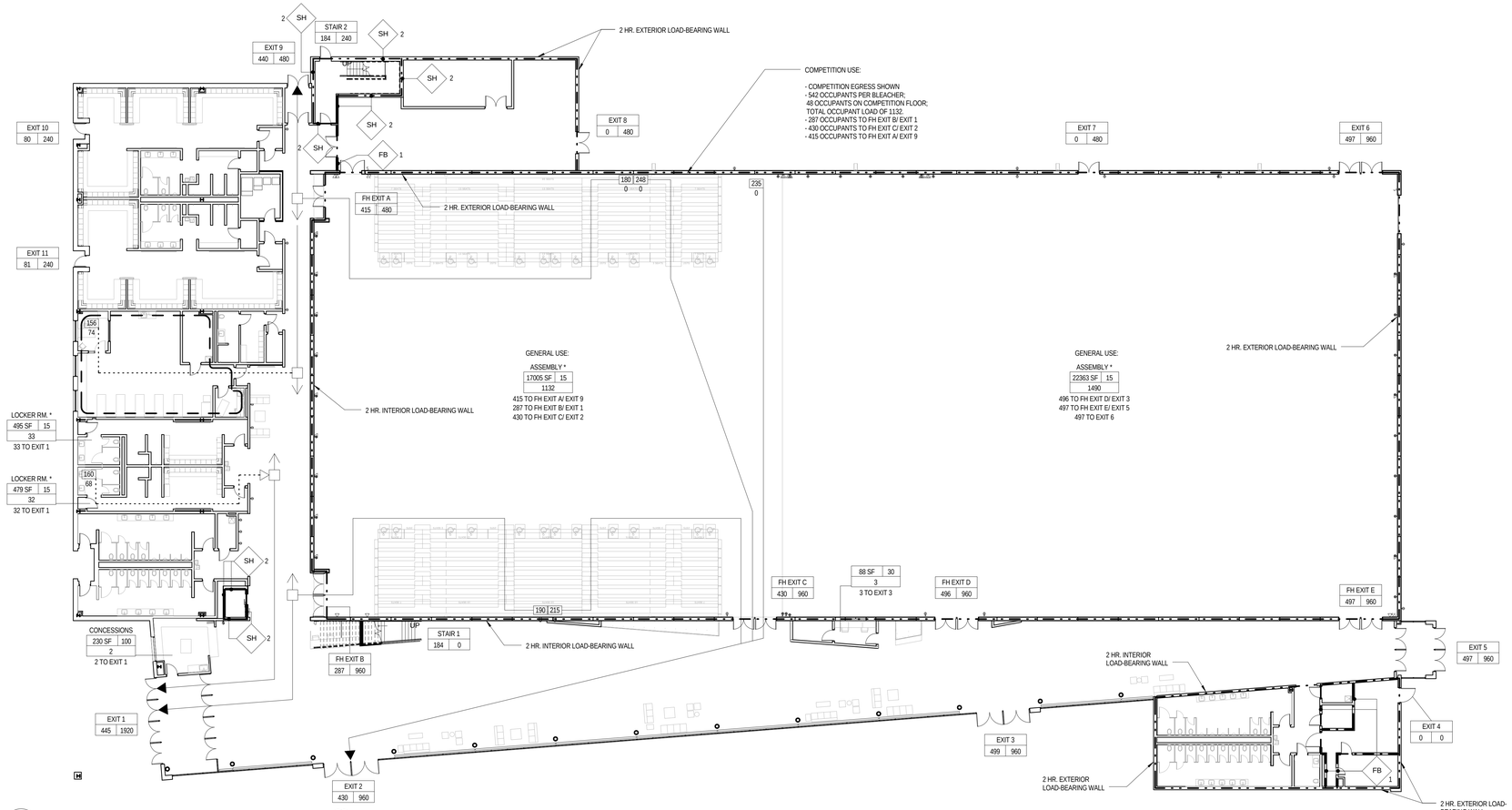
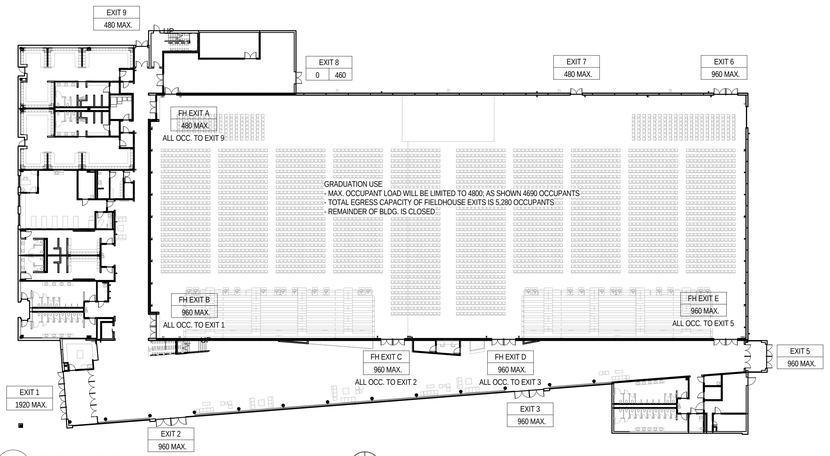
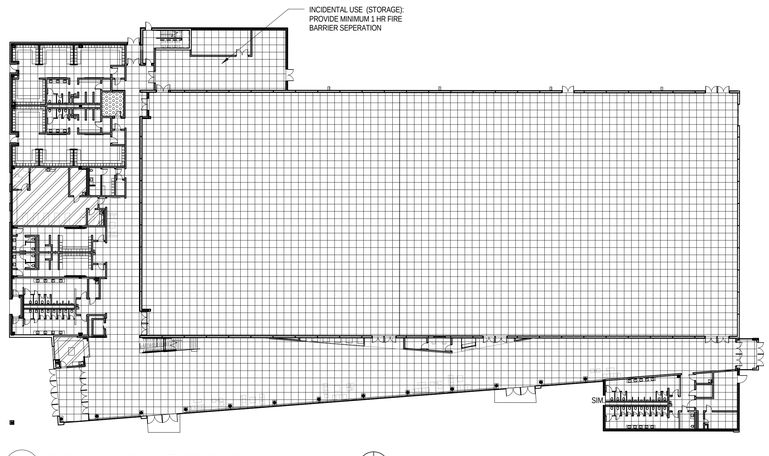


1 LEVEL 1 - OCCUPANT LOAD AND EGRESS DIAGRAM
1/16" = 1'-0"



3 LEVEL 1 - GRADUATION DIAGRAM
1/32" = 1'-0"



2 LEVEL 1 - OCCUPANCY TYPES DIAGRAM
1/32" = 1'-0"

CODE COMPLIANCE NOTES:

APPLICABLE CODES:

2003 INTERNATIONAL BUILDING CODE;
2012 INTERNATIONAL ENERGY CONSERVATION CODE;
2010 ASHRAE 90.1 ENERGY STANDARDS FOR BUILDINGS;
2002 NFPA 70 NATIONAL ELECTRICAL CODE;
2003 INTERNATIONAL FIRE PREVENTION CODE;
2003 INTERNATIONAL MECHANICAL CODE;
2003 INTERNATIONAL FUEL GAS CODE;
2014 ILLINOIS PLUMBING CODE;
1997 ILLINOIS ACCESSIBILITY CODE;
2010 DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN;
CURRENT EDITION, ASME A117.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS;

BUILDING AREA AND HEIGHT SUMMARY:

FIRST FLOOR (GROSS):	65,461 SF
SECOND FLOOR (GROSS):	14,037 SF
TOTAL AREA, ALL FLOORS:	79,498 SF
BUILDING HEIGHT:	2 STORIES

BUILDING CODE CLASSIFICATION:

1. MIXED USE NON-SEPARATED OCCUPANCY:
   - USE A-3: ASSEMBLY
   - USE A-4: ASSEMBLY
   - USE B: BUSINESS
   - USE F-1: FACTORY (LAUNDRY)
2. CONSTRUCTION TYPE: 1B, FULLY SPRINKLERED
3. ALLOWABLE AREA AND HEIGHT PER USE (TABLE 503):

USE GROUP A-3:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP A-4:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP B:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP F-1:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES

4. FIRE RESISTANCE RATINGS, TYPE 1B CONSTRUCTION (TABLE 601):

STRUCTURAL FRAME:	2 HRS
EXTERIOR BEARING WALLS:	2 HRS
INTERIOR BEARING WALLS:	2 HRS
EXTERIOR NON-BEARING WALLS (TABLE 602):	
BETWEEN 0 AND 30 FT. SEPERATION DISTANCE	1 HRS
GREATER THAN 30 FT. SEPERATION DISTANCE	0 HRS
INTERIOR NON-BEARING WALLS:	0 HRS
FLOOR CONSTRUCTION:	2 HRS
ROOF CONSTRUCTION:	1 HRS

5. FIRE-RESISTANCE-RATED SEPARATIONS:
   - A. EXIT ACCESS COMPONENTS
     - CORRIDORS (TABLE 1016.1): 0 HR FIRE BARRIER
     - VERTICAL EXIT ENCLOSURES (707): 2 HR FIRE BARRIER
   - B. INCIDENTAL USE AREAS (PROVIDE RATINGS AS SHOWN ON PLAN)
6. EXIT ACCESS TRAVEL DISTANCES, WITH SPRINKLER SYSTEM (TABLE 1015.1):
   - USE A AND F: 250 FT.
   - USE B: 300 FT.
7. COMMON PATH OF EGRESS TRAVEL, WITH SPRINKLER SYSTEM (1013.3):
   - USE A: 75 FT.
   - USE B AND F: 100 FT.
8. DEAD END CORRIDOR LENGTH, WITH SPRINKLER SYSTEM (1016.3):
   - USE A: 20 FT.
   - USE B AND F: 50 FT.

CODE COMPLIANCE PLAN SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

ROOM-OCCUPANT LOAD
- FUNCTION OF SPACE
- ASTERISK INDICATES REQUIREMENT TO POST A ROOM OCCUPANT LOAD PLACARD
- ROOM OR AREA SQUARE FOOTAGE
- SQUARE FOOTAGE PER OCCUPANT
- MAXIMUM OCCUPANT LOAD PER DESIGN
- OCCUPANT LOAD AND ASSIGNED EXIT DISCHARGE

EXIT ACCESS TRAVEL DISTANCE
- TRAVEL DISTANCE TO NEAREST EXIT ACCESS
- LINETYPE DENOTES COMMON PATH OF EGRESS TRAVEL
- TRAVEL DISTANCE ON COMMON PATH OF EGRESS
- DENOTES END OF COMMON PATH OF EGRESS TRAVEL
- DENOTES DIRECTION OF ALTERNATE PATH OF EGRESS
- EXIT DISCHARGE

EXIT OCCUPANT LOAD
- EXIT DISCHARGE NUMBER
- ACTUAL OCCUPANT LOAD PER DESIGN
- MAXIMUM OCCUPANT LOAD PER DESIGN

EXIT SIGNS
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED

FIRE-RESISTANCE-RATED SEPARATION TYPES
*SEE WALL TYPES FOR CONSTRUCTION REQUIREMENTS

X FW	FIRE WALL	X HA	HORIZ. ASSEMBLY
X FB	FIRE BARRIER	X SH	SHAFT ENCLOSURE
X FP	FIRE PARTITION	X SB	SMOKE BARRIER

(X = WALL RATING)
- SMOKE PARTITION
- 1 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 2 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 3 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 4 HR FIRE-RESISTANCE-RATED CONSTRUCTION

DEVICES

FE	WALL-MOUNTED FIRE EXTINGUISHER
FEC	RECESSED FIRE EXTINGUISHER CABINET
ANN	FIRE ALARM ANNUNCIATOR PANEL
F	FIRE ALARM PULL STATION, WALL MOUNTED
A	FIRE ALARM AUDIO-VISUAL DEVICE, WALL MOUNTED
V	FIRE ALARM VISUAL DEVICE, WALL MOUNTED
A	FIRE ALARM AUDIO-VISUAL DEVICE, CEILING MOUNTED
V	FIRE ALARM VISUAL DEVICE, CEILING MOUNTED

OCCUPANCY CLASSIFICATION LEGEND:

- A-3 ASSEMBLY
- A-4 ASSEMBLY
- B BUSINESS
- F-1 FACTORY

PLUMBING FIXTURE COUNT:

1. NUMBER OF OCCUPANTS, ACTUAL:	4800
2. NUMBER OF OCCUPANTS, PER SEX:	2400
3. BUILDING TYPE:	ASSEMBLY (AUDITORIUM)

FIXTURE TYPE	QUANTITY			
	REQUIRED		CURRENTLY PROVIDED	
	WOMEN	MEN	WOMEN	MEN
LAVATORIES	8	8	12	12
WATER CLOSETS	20	8	23	11
URINALS	--	10	--	12
DRINKING FOUNTAINS	3		4	
SERVICE SINKS	1 PER FLOOR		1 PER SET OF PUBLIC TOILET ROOMS	

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1
CODE PLAN

SHEET NUMBER:
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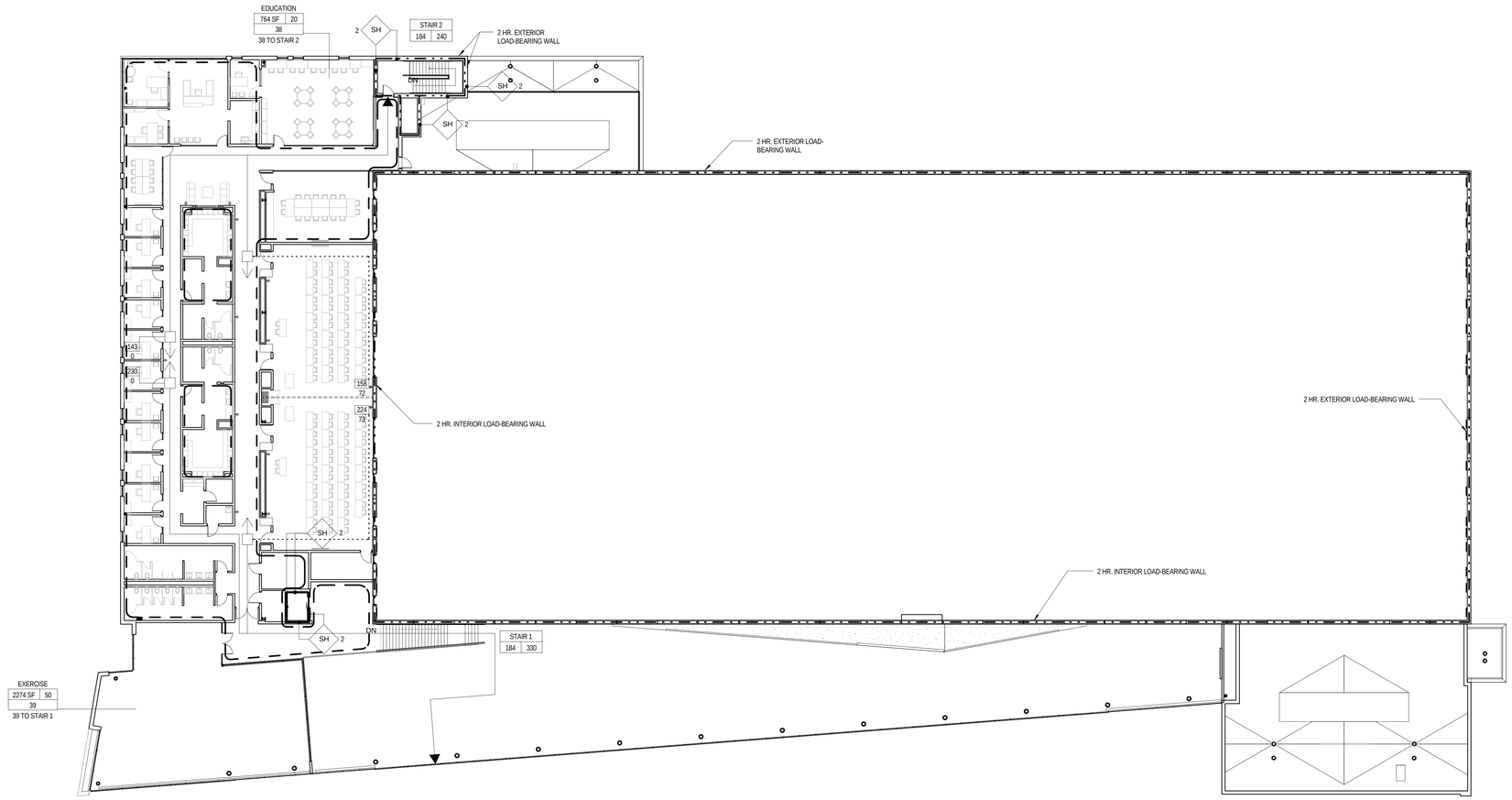
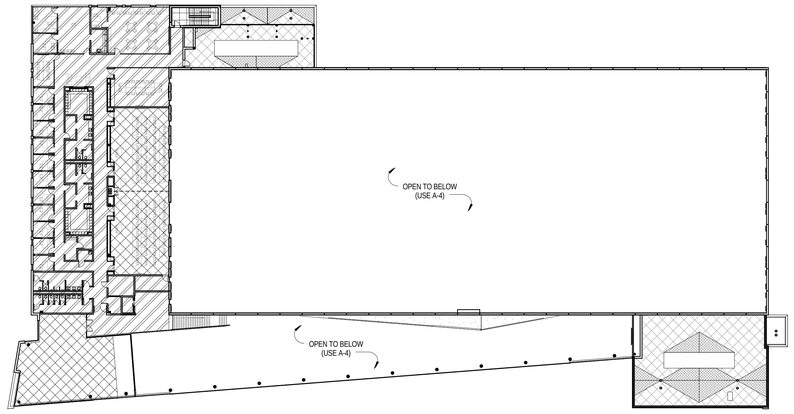


1 LEVEL 2 - OCCUPANT LOAD AND EGRESS DIAGRAM
1/16" = 1'-0"



2 LEVEL 2 - OCCUPANCY TYPES DIAGRAM
1/32" = 1'-0"

CODE COMPLIANCE NOTES:

APPLICABLE CODES:

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   - USE B: BUSINESS
   - USE F-1: FACTORY (LAUNDRY)
2. CONSTRUCTION TYPE: 1B, FULLY SPRINKLERED
3. ALLOWABLE AREA AND HEIGHT PER USE (TABLE 503):

USE GROUP A-3:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP A-4:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP B:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
BASE BUILDING HEIGHT:	11 STORIES
AUTOMATIC SPRINKLER INCREASE:	1 STORY
MAX. BUILDING HEIGHT:	12 STORIES
USE GROUP F-1:	
BASE FLOOR AREA:	UNLIMITED
AUTOMATIC SPRINKLER INCREASE, 200%:	UNLIMITED
MAX. AREA PER FLOOR:	UNLIMITED
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4. FIRE RESISTANCE RATINGS, TYPE 1B CONSTRUCTION (TABLE 601):

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INTERIOR BEARING WALLS:	2 HRS
EXTERIOR NON-BEARING WALLS (TABLE 602):	
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GREATER THAN 30 FT. SEPERATION DISTANCE	0 HRS
INTERIOR NON-BEARING WALLS:	0 HRS
FLOOR CONSTRUCTION:	2 HRS
ROOF CONSTRUCTION:	1 HRS

5. FIRE-RESISTANCE-RATED SEPARATIONS:

A. EXIT ACCESS COMPONENTS	
CORRIDORS (TABLE 1016.1):	0 HR FIRE BARRIER
VERTICAL EXIT ENCLOSURES (707):	2 HR FIRE BARRIER
B. INCIDENTAL USE AREAS (PROVIDE RATINGS AS SHOWN ON PLAN)	

6. EXIT ACCESS TRAVEL DISTANCES, WITH SPRINKLER SYSTEM (TABLE 1015.1):

USE A AND F:	250 FT.
USE B:	300 FT.

7. COMMON PATH OF EGRESS TRAVEL, WITH SPRINKLER SYSTEM (1013.3):

USE A:	75 FT.
USE B AND F:	100 FT.

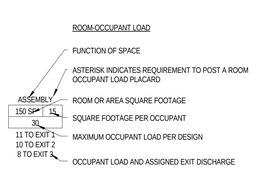
8. DEAD END CORRIDOR LENGTH, WITH SPRINKLER SYSTEM (1016.3):

USE A:	20 FT.
USE B AND F:	50 FT.

CODE COMPLIANCE PLAN SYMBOLS LEGEND:

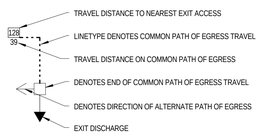
NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

ROOM-OCCUPANT LOAD



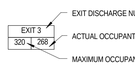
- FUNCTION OF SPACE
- ASTERISK INDICATES REQUIREMENT TO POST A ROOM OCCUPANT LOAD PLACARD
- ROOM OR AREA SQUARE FOOTAGE
- SQUARE FOOTAGE PER OCCUPANT
- MAXIMUM OCCUPANT LOAD PER DESIGN
- OCCUPANT LOAD AND ASSIGNED EXIT DISCHARGE

EXIT ACCESS TRAVEL DISTANCE



- TRAVEL DISTANCE TO NEAREST EXIT ACCESS
- LINETYPE DENOTES COMMON PATH OF EGRESS TRAVEL
- TRAVEL DISTANCE ON COMMON PATH OF EGRESS
- DENOTES END OF COMMON PATH OF EGRESS TRAVEL
- DENOTES DIRECTION OF ALTERNATE PATH OF EGRESS
- EXIT DISCHARGE

EXIT OCCUPANT LOAD



- EXIT DISCHARGE NUMBER
- ACTUAL OCCUPANT LOAD PER DESIGN
- MAXIMUM OCCUPANT LOAD PER DESIGN

EXIT SIGNS

- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED

FIRE-RESISTANCE-RATED SEPARATION TYPES

*SEE WALL TYPES FOR CONSTRUCTION REQUIREMENTS

X FW	FIRE WALL	X HA	HORIZ. ASSEMBLY
X FB	FIRE BARRIER	X SH	SHAFT ENCLOSURE
X FP	FIRE PARTITION	X SB	SMOKE BARRIER

(X = WALL RATING)

- SMOKE PARTITION
- 1 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 2 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 3 HR FIRE-RESISTANCE-RATED CONSTRUCTION
- 4 HR FIRE-RESISTANCE-RATED CONSTRUCTION

DEVICES

FE	WALL-MOUNTED FIRE EXTINGUISHER
FEC	RECESSED FIRE EXTINGUISHER CABINET
ANN	FIRE ALARM ANNUNCIATOR PANEL
F	FIRE ALARM PULL STATION, WALL MOUNTED
A	FIRE ALARM AUDIO-VISUAL DEVICE, WALL MOUNTED
V	FIRE ALARM VISUAL DEVICE, WALL MOUNTED
A	FIRE ALARM AUDIO-VISUAL DEVICE, CEILING MOUNTED
V	FIRE ALARM VISUAL DEVICE, CEILING MOUNTED

OCCUPANCY CLASSIFICATION LEGEND:

- A-3 ASSEMBLY
- A-4 ASSEMBLY
- B BUSINESS
- F-1 FACTORY

PLUMBING FIXTURE COUNT:

1. NUMBER OF OCCUPANTS, ACTUAL:	4800
2. NUMBER OF OCCUPANTS, PER SEX:	2400
3. BUILDING TYPE:	ASSEMBLY (AUDITORIUM)

FIXTURE TYPE	QUANTITY			
	REQUIRED		CURRENTLY PROVIDED	
	WOMEN	MEN	WOMEN	MEN
LAVATORIES	8	8	12	12
WATER CLOSETS	20	8	23	11
URINALS	--	10	--	12
DRINKING FOUNTAINS	3		4	
SERVICE SINKS	1 PER FLOOR		1 PER SET OF PUBLIC TOILET ROOMS	

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2
CODE PLAN

SHEET NUMBER:
AC1.21

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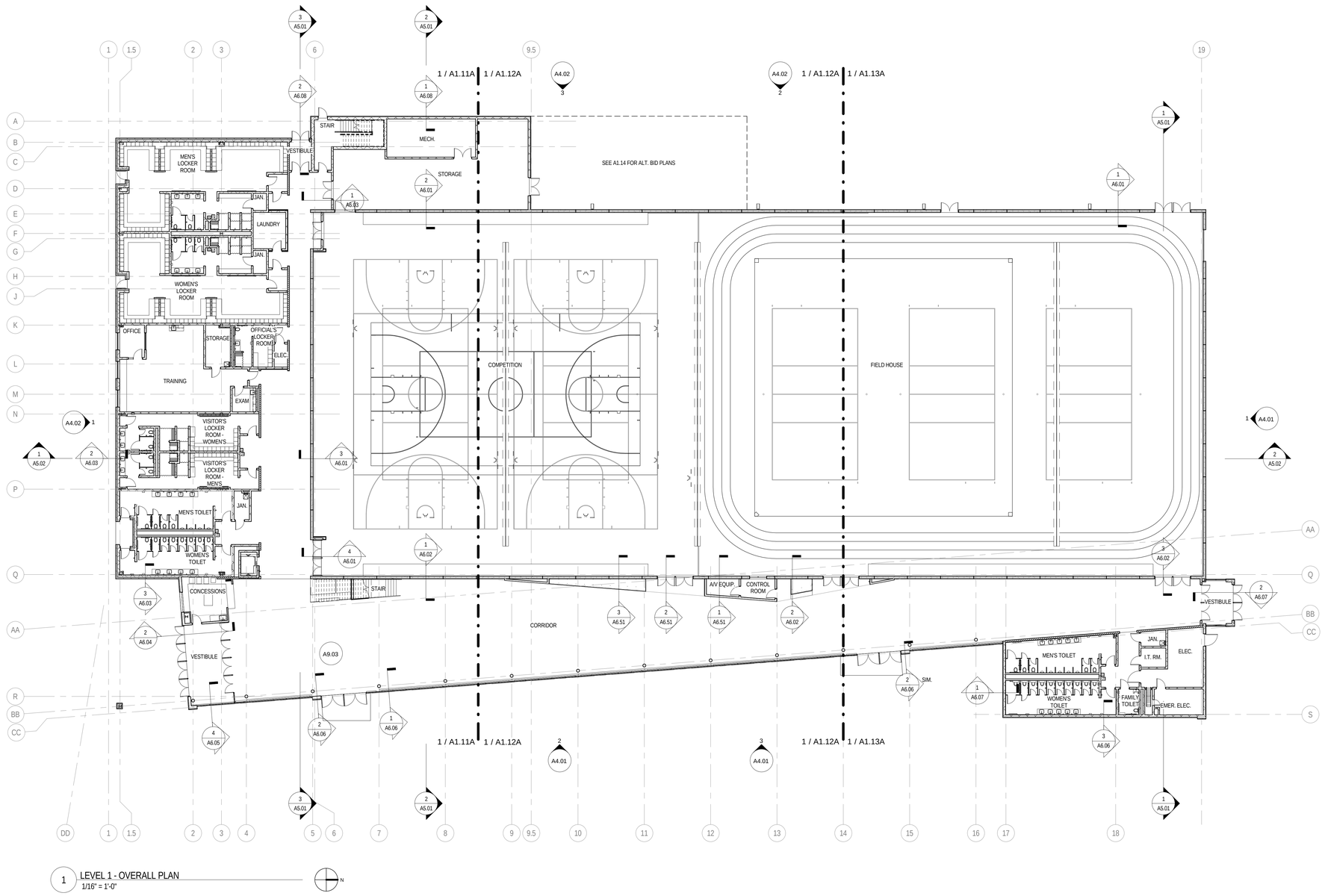

1 LEVEL 1 - OVERALL PLAN
1/16" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE / PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- SIM, 1, AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- SIM, 1, AXX.XX — SECTION CALLOUT
- 1, A101, 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1
OVERALL PLAN

SHEET NUMBER:
A1.10

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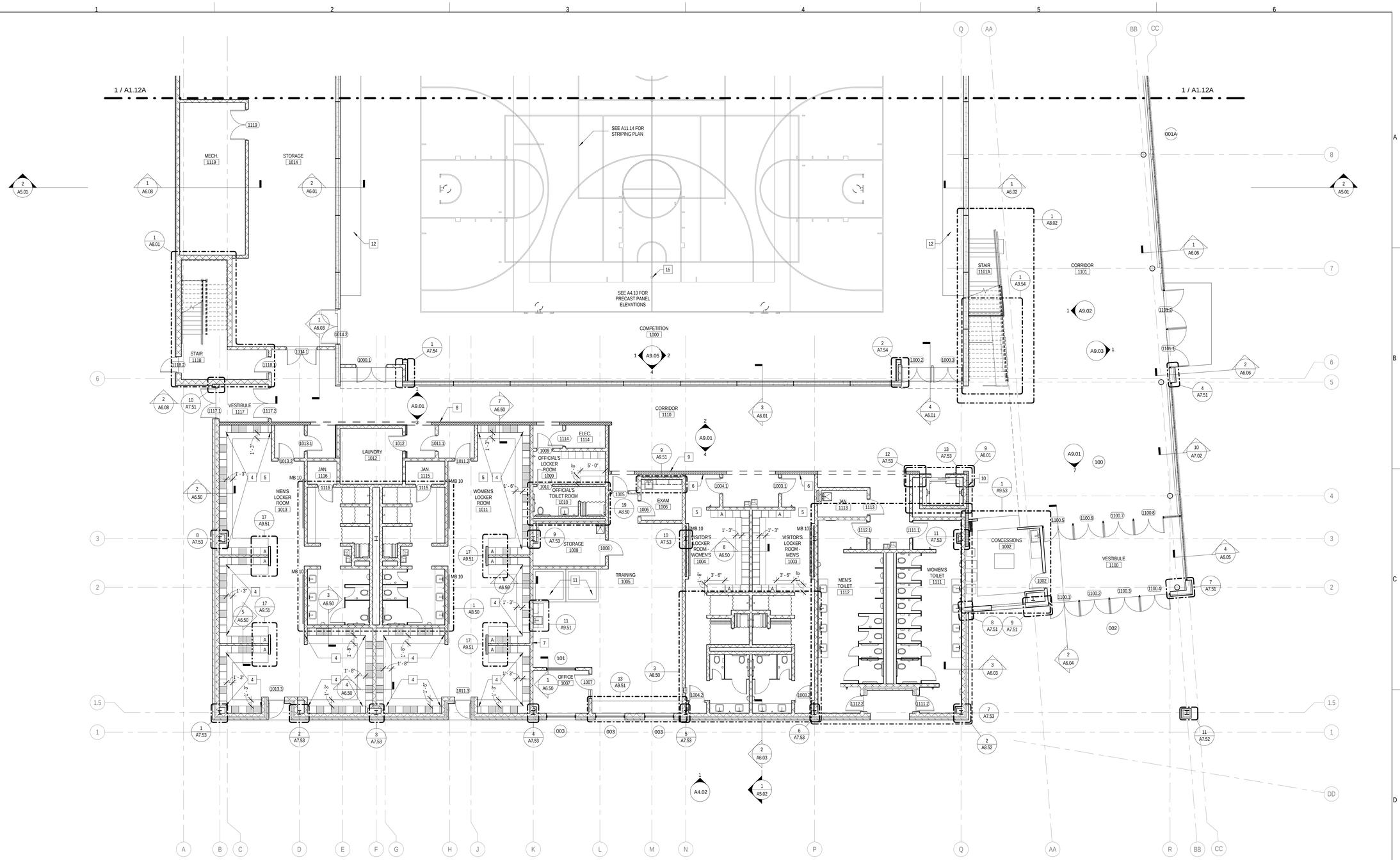

1 LEVEL 1 - AREA 1 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
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- XX — WINDOW TAG
- XX / 2HR — PARTITION TYPE / PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 / SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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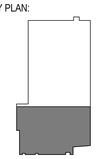
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN
AREA 1

SHEET NUMBER:
A1.11A

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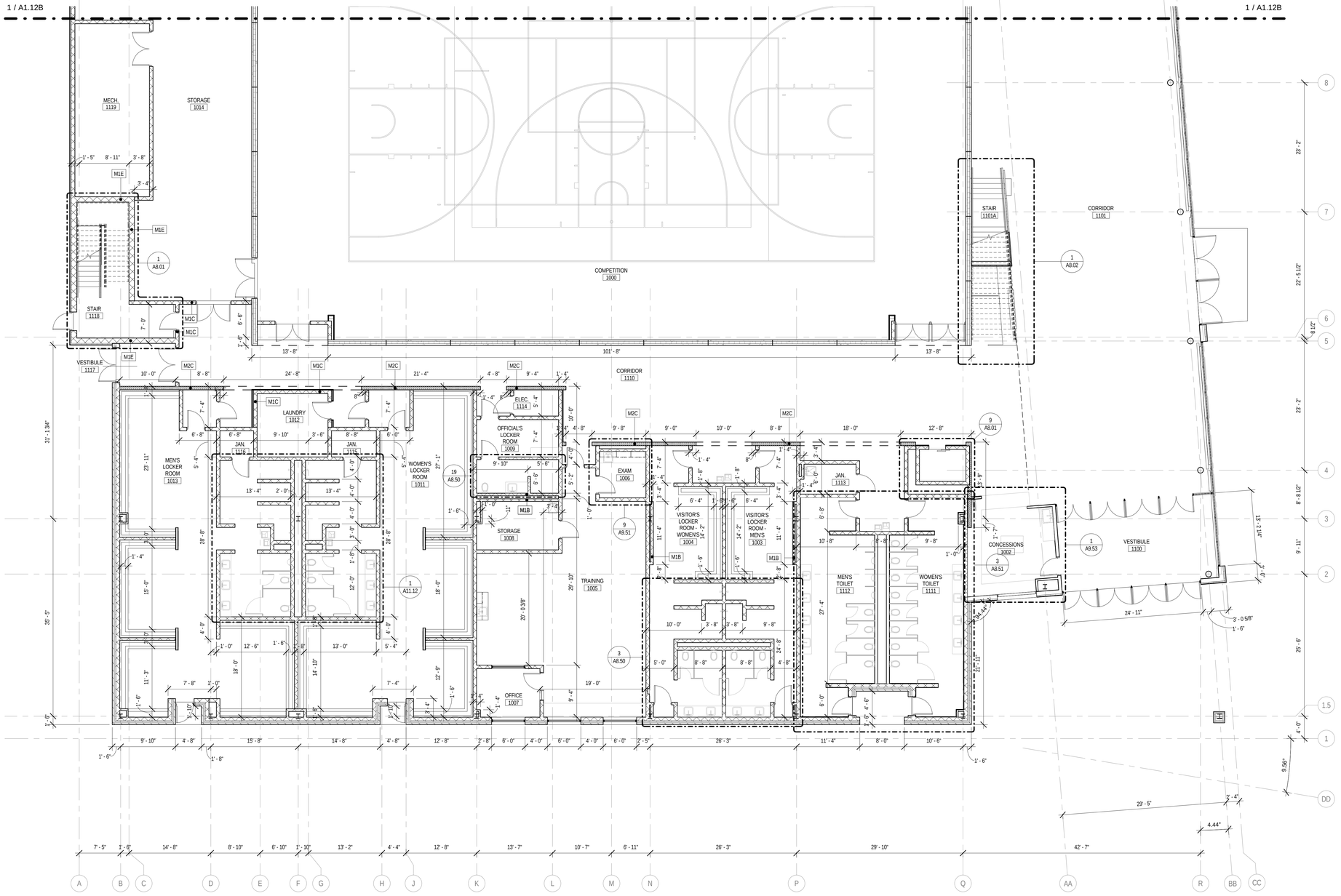

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
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- 1 / SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
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12. REFER TO A10.00 FOR PARTITION SCHEDULE.
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FLOOR PLAN REFERENCED NOTES:

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5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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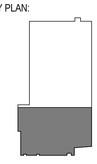
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



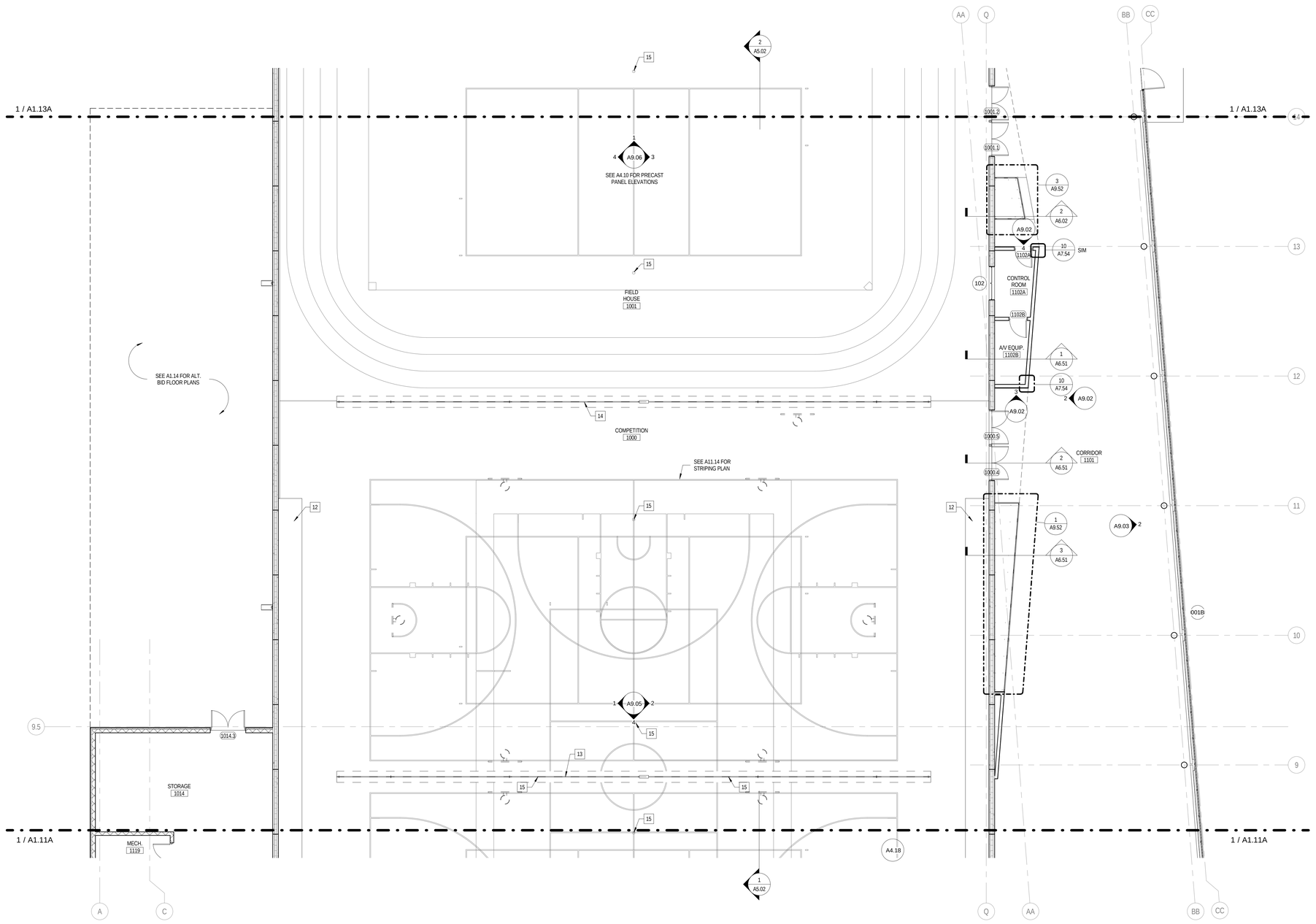
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 DIMENSION PLAN AREA 1

SHEET NUMBER:
A1.11B

8/28/2015 4:12:02 PM



1 LEVEL 1 - AREA 2 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 AXX.XX SIM — PLAN AND SECTION DETAIL CALLOUT
- 1 AXX.XX SIM — SECTION CALLOUT
- 1 A101 1 (1 / 1) — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
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10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
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16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
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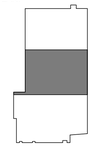
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



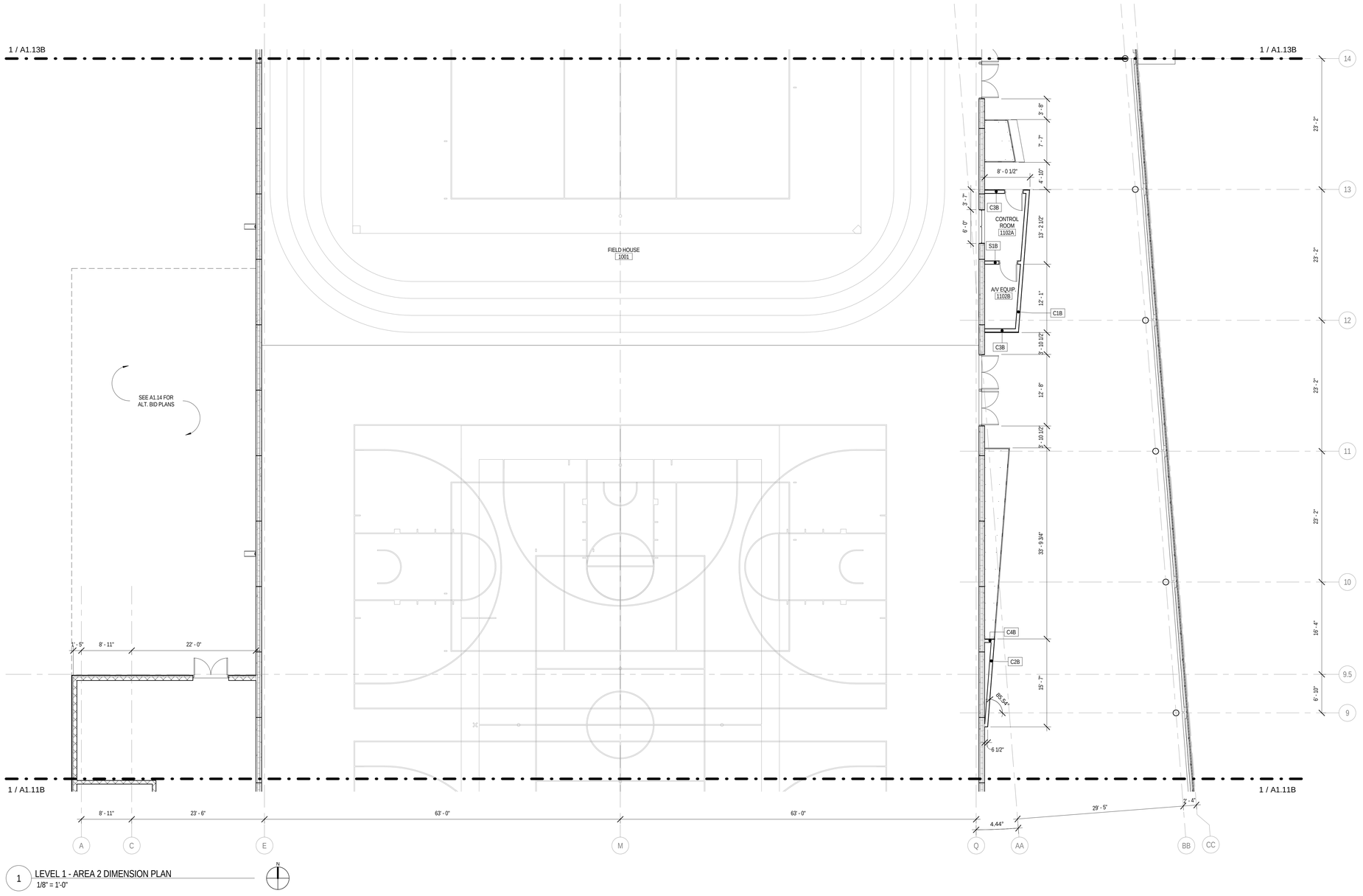
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN AREA 2

SHEET NUMBER:
A1.12A

8/28/2015 4:12:05 PM



1 LEVEL 1 - AREA 2 DIMENSION PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- 1 / SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 / 1 — ELEVATION CALLOUT
- DATUM / ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0'. REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
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10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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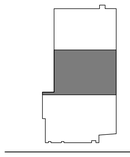
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



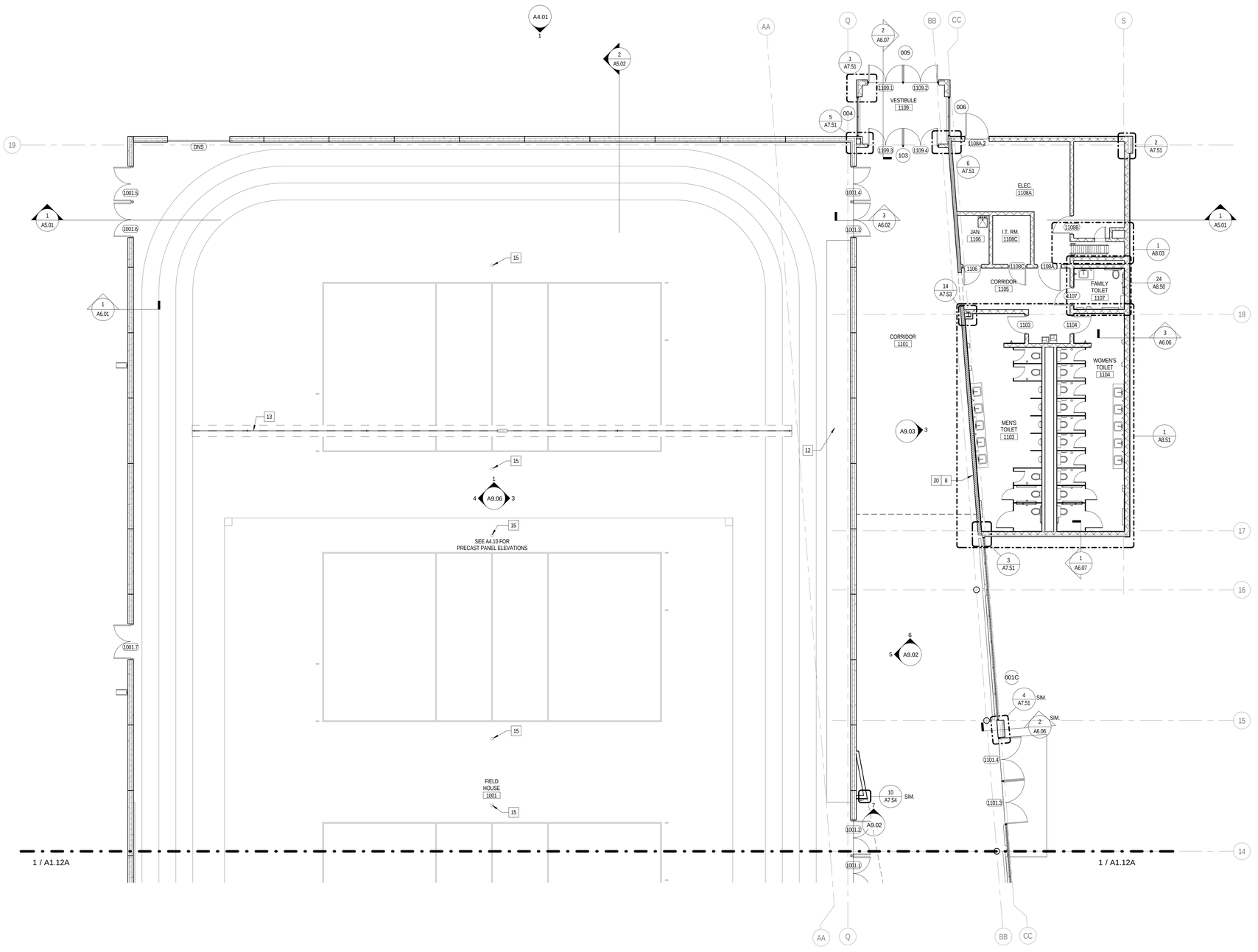
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1
DIMENSION PLAN
AREA 2

SHEET NUMBER:
A1.12B

8/28/2015 4:12:07 PM



1 LEVEL 1 - AREA 3 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX / 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / AXX.XX / SIM — PLAN AND SECTION DETAIL CALLOUT
- 1 / AXX.XX / SIM — SECTION CALLOUT
- 1 / A101 / 1 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0'. REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN.
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
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7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
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10. GROUND FACE CMU - COLOR 3.
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12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
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16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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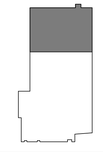
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN
AREA 3

SHEET NUMBER:
A1.13A

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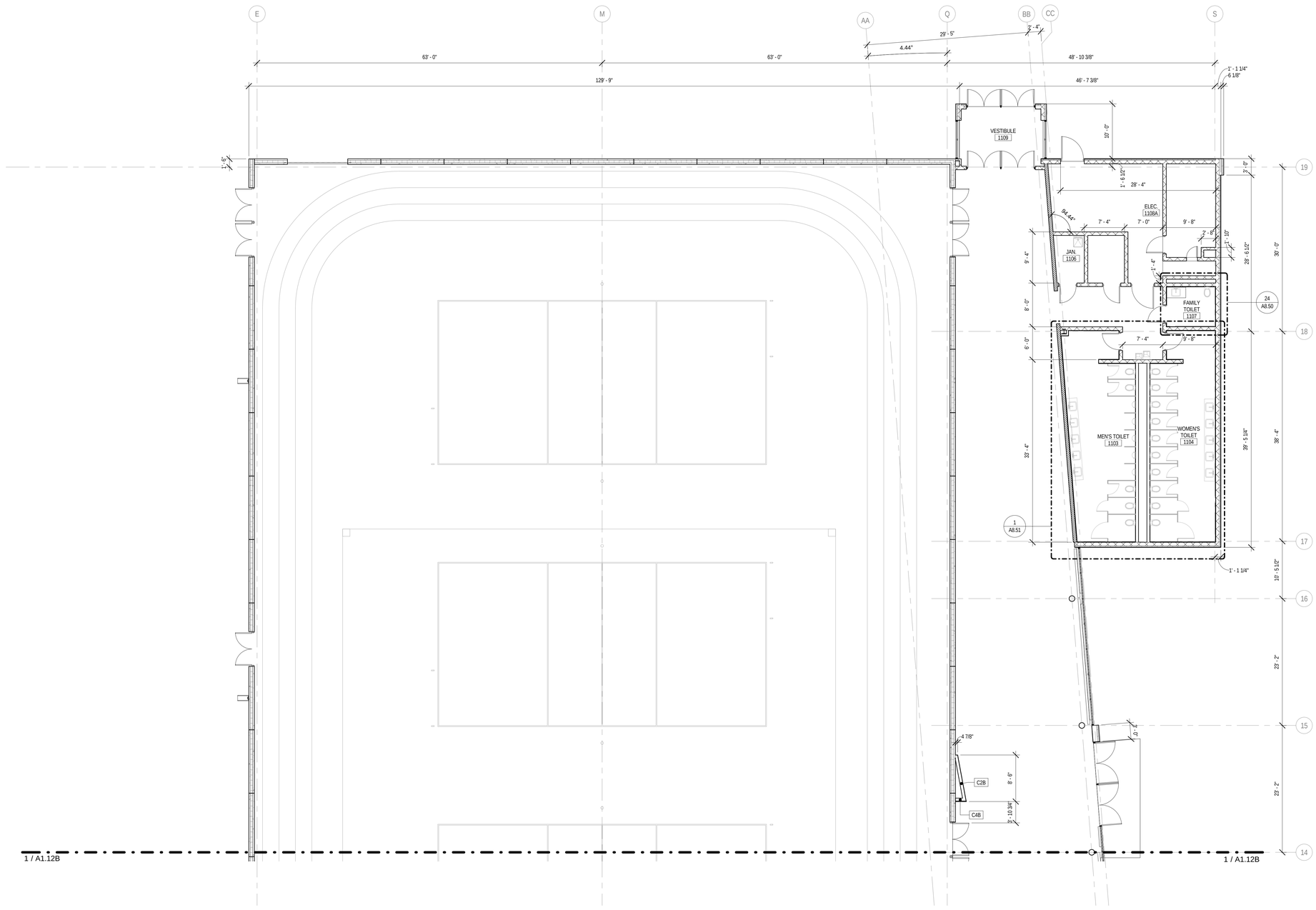

1 LEVEL 1 - AREA 3 DIMENSION PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG
- 1 / A101.XX / SIM — PLAN AND SECTION DETAIL CALLOUT
- 1 / A101.XX / SIM — SECTION CALLOUT

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
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12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
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5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
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17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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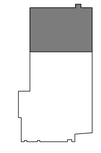
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 DIMENSION PLAN AREA 3

SHEET NUMBER:
A1.13B

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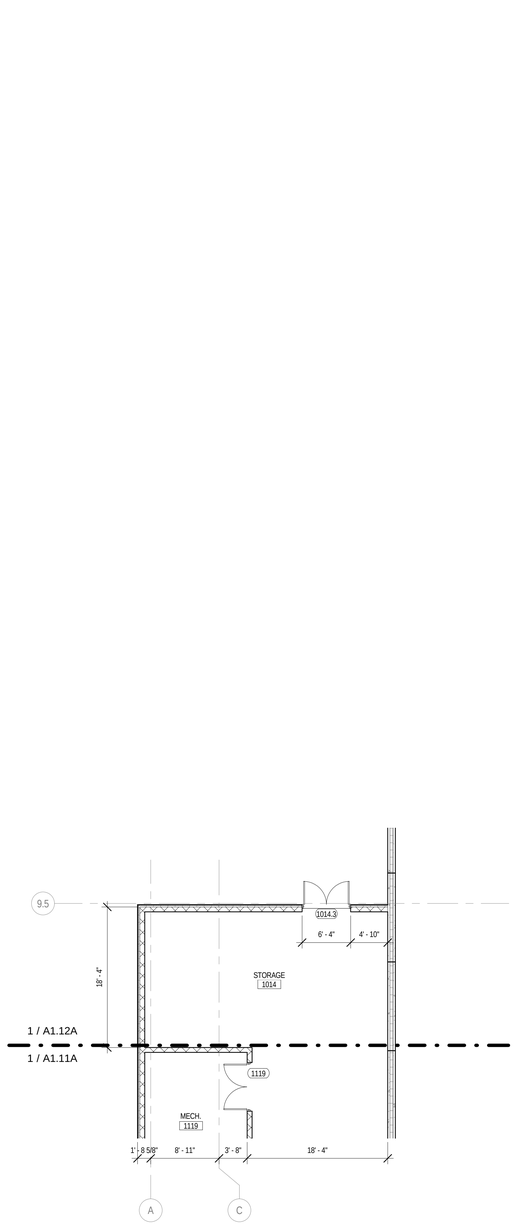
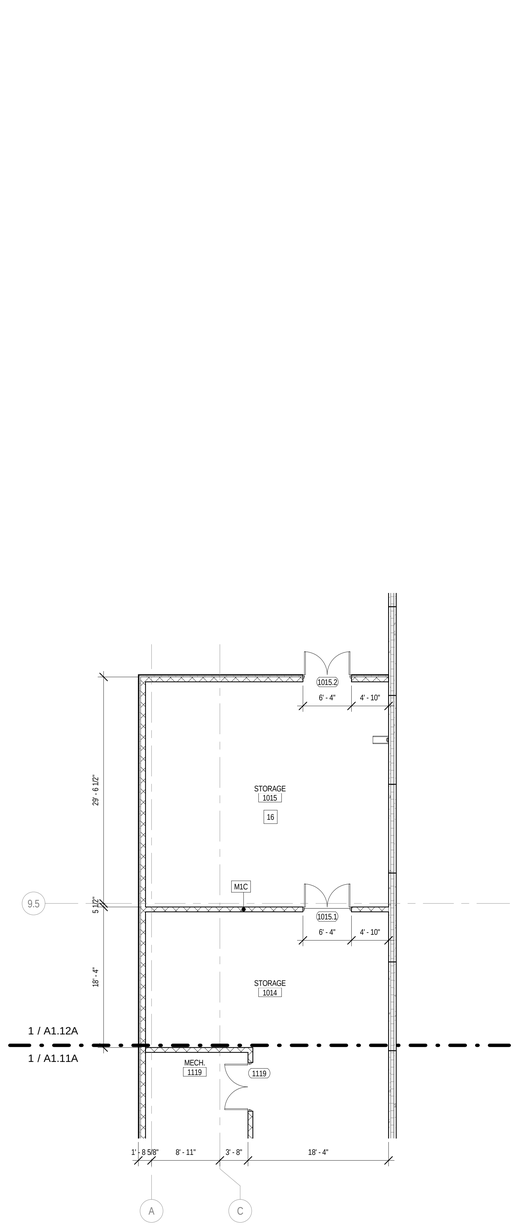
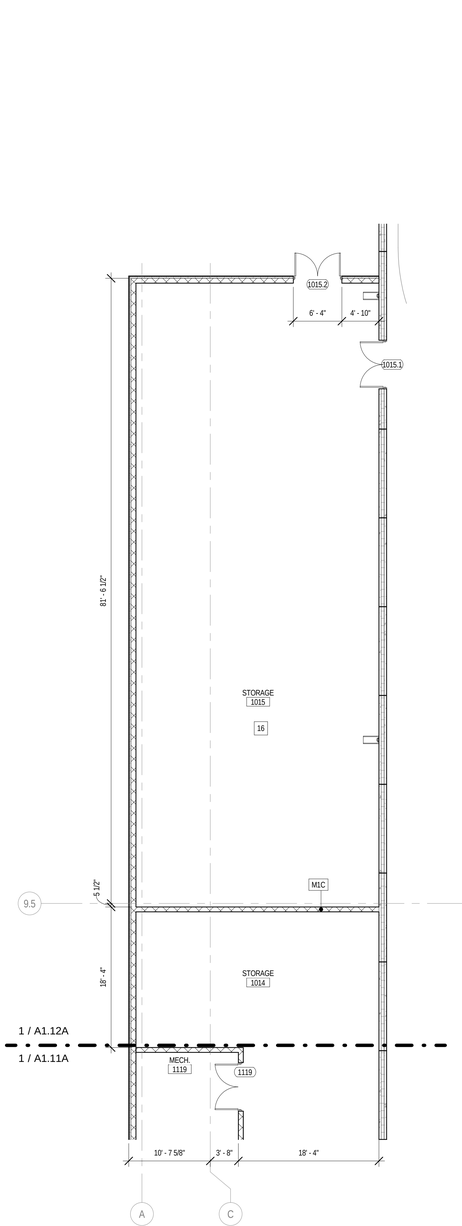


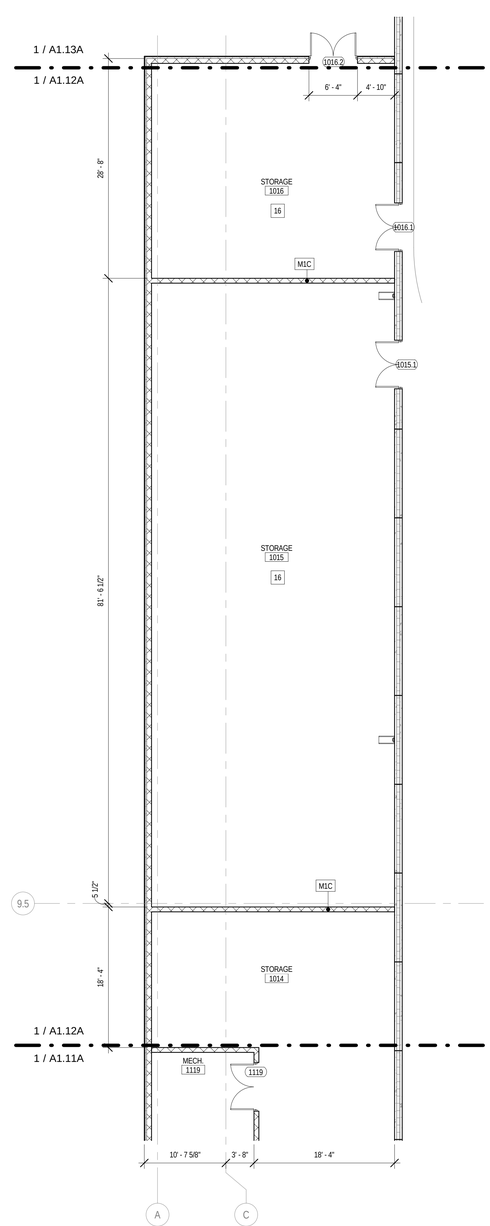
4 LEVEL 1 - BASE BID
1/8" = 1'-0"



1 LEVEL 1 - ALT BID 1
1/8" = 1'-0"



2 LEVEL 1 - ALT BID 2
1/8" = 1'-0"



3 LEVEL 1 - ALT BID 3
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE / PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 SIM AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM AXX.XX — SECTION CALLOUT
- 1 A101 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
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FLOOR PLAN REFERENCED NOTES:

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3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
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11. HYDROTHERAPY TUB, N.I.C.
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17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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DKA PROJECT NO: 14-004

KEY PLAN:

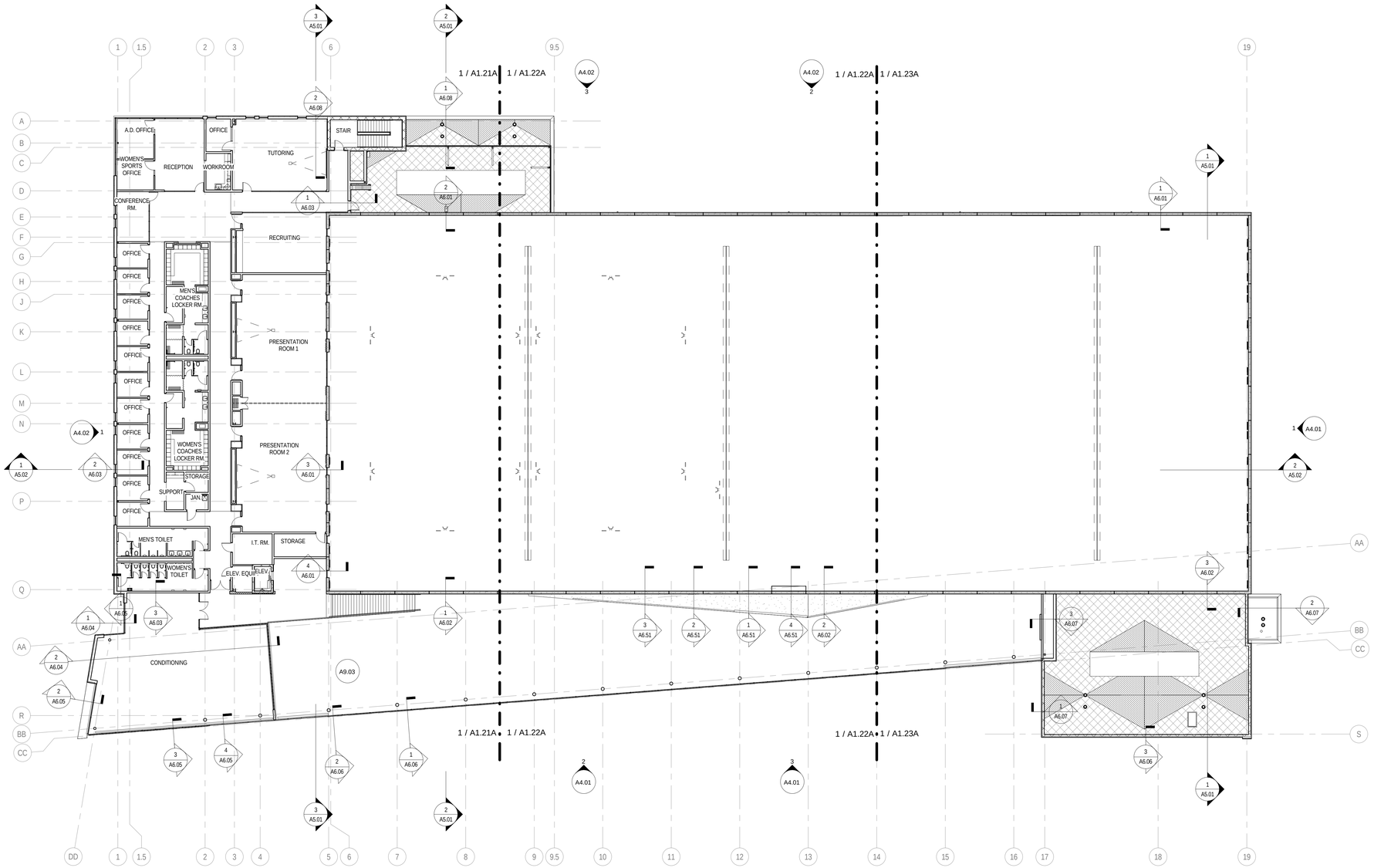
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 - ALTERNATE BIDS

SHEET NUMBER:
A1.14

8/28/2015 4:12:17 PM



1 LEVEL 2 - OVERALL PLAN
1/16" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- 1 SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
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4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
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5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

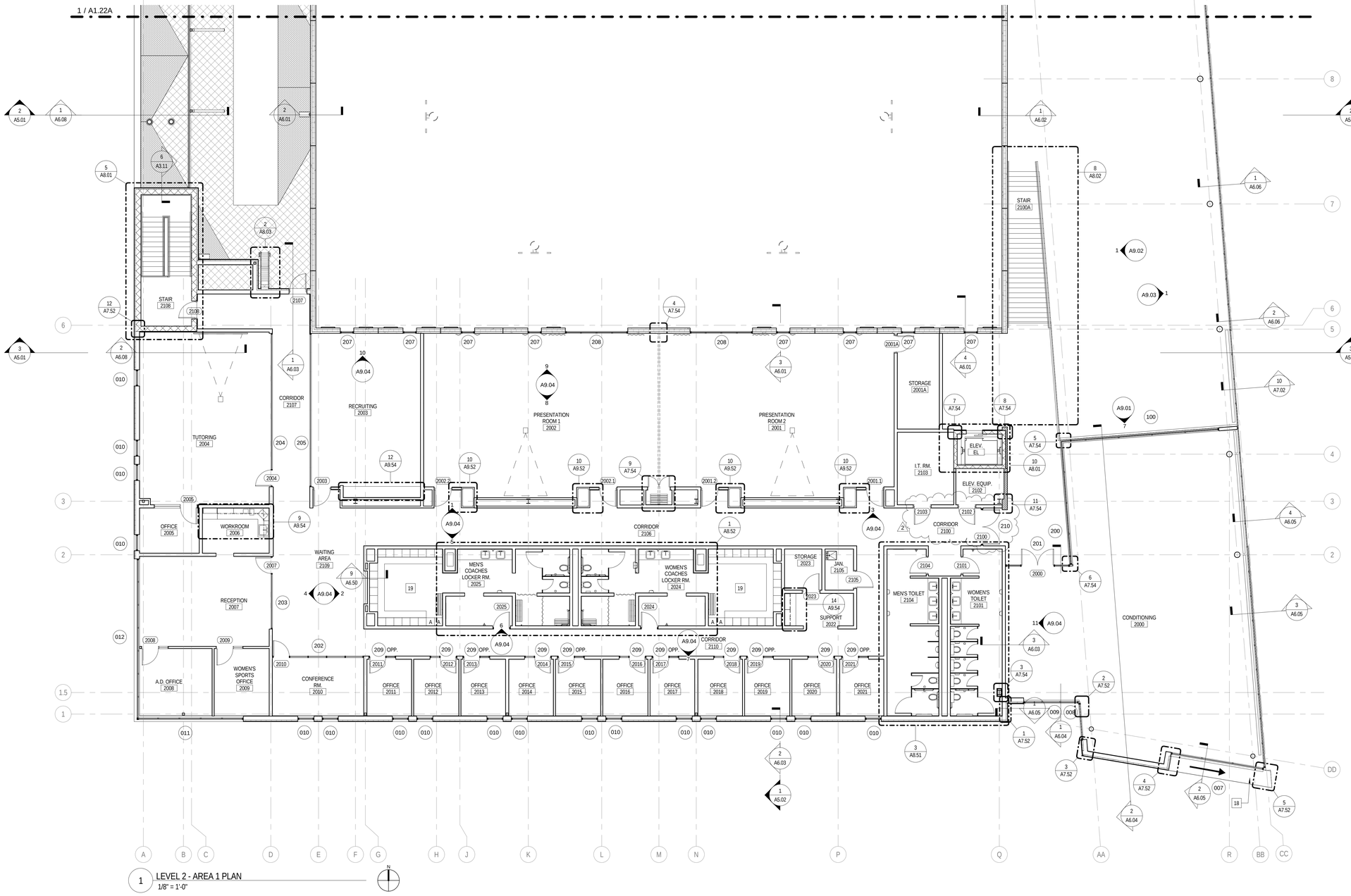
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2
OVERALL PLAN

SHEET NUMBER:
A1.20

8/28/2015 4:12:23 PM



1 LEVEL 2 - AREA 1 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX / 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 / SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM / ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
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12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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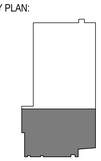
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



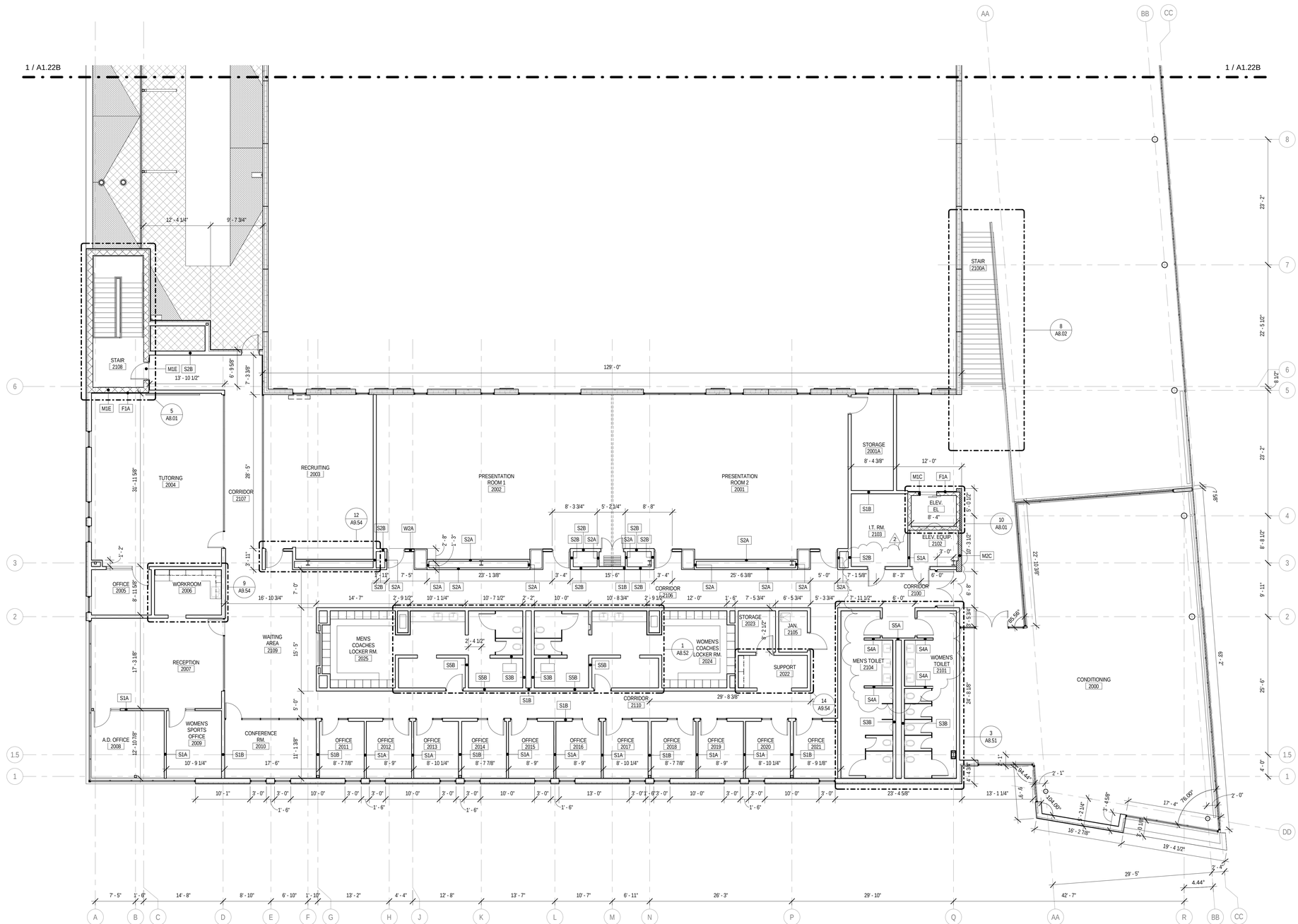
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
LEVEL 2 PLAN
AREA 1

SHEET NUMBER:
A1.21A

8/28/2015 4:12:29 PM



1 LEVEL 2 - AREA 1 DIMENSION PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE / PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 SIM A/XX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM A/XX.XX — SECTION CALLOUT
- 1 A101 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
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12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

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5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
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17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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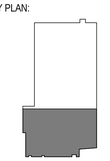
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
LEVEL 2
DIMENSION PLAN
AREA 1

SHEET NUMBER:
A1.21B

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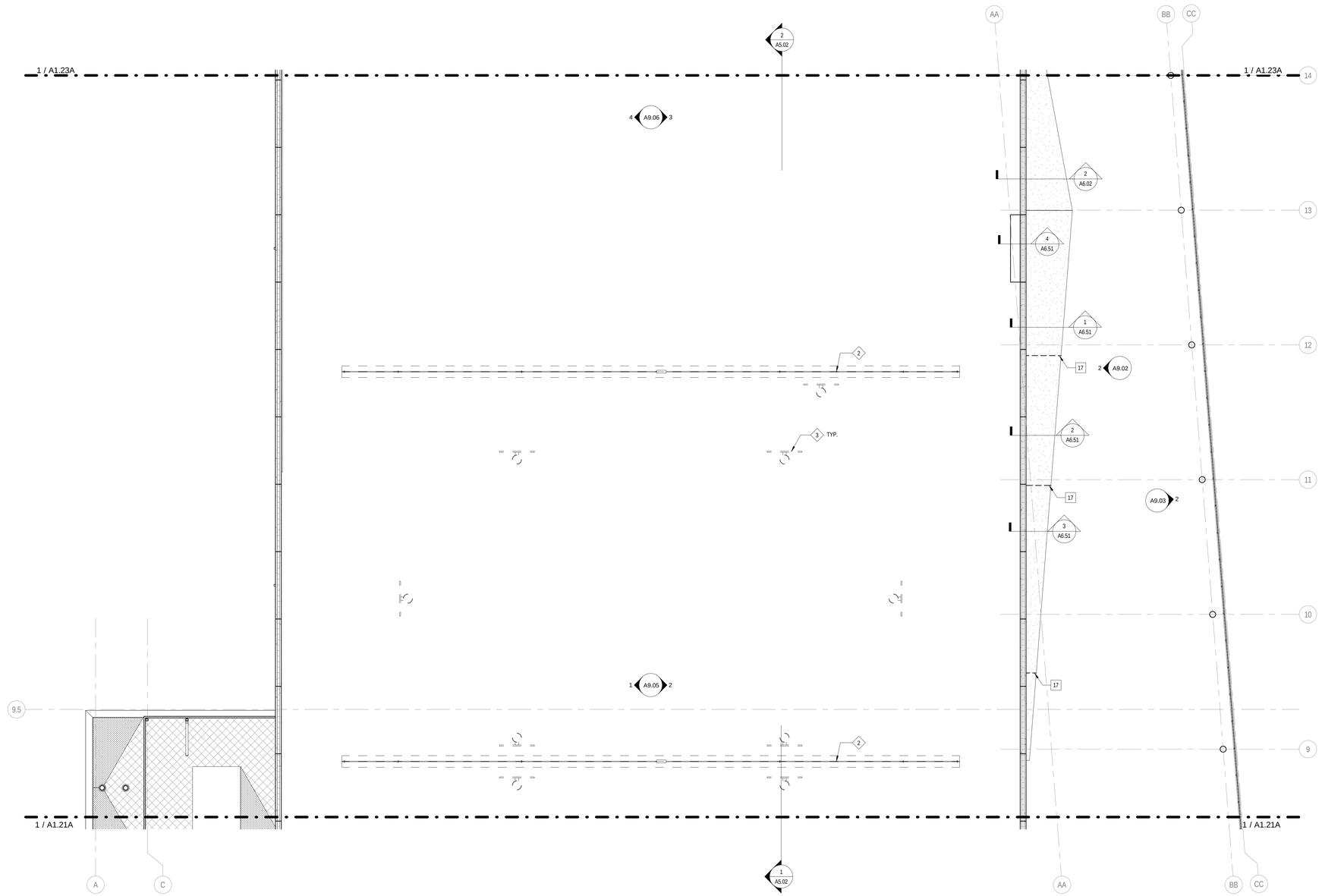

1 LEVEL 2 - AREA 2 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX / 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / AXX.XX / SIM — PLAN AND SECTION DETAIL CALLOUT
- 1 / AXX.XX / SIM — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
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5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
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12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

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17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
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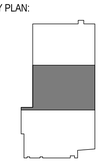
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



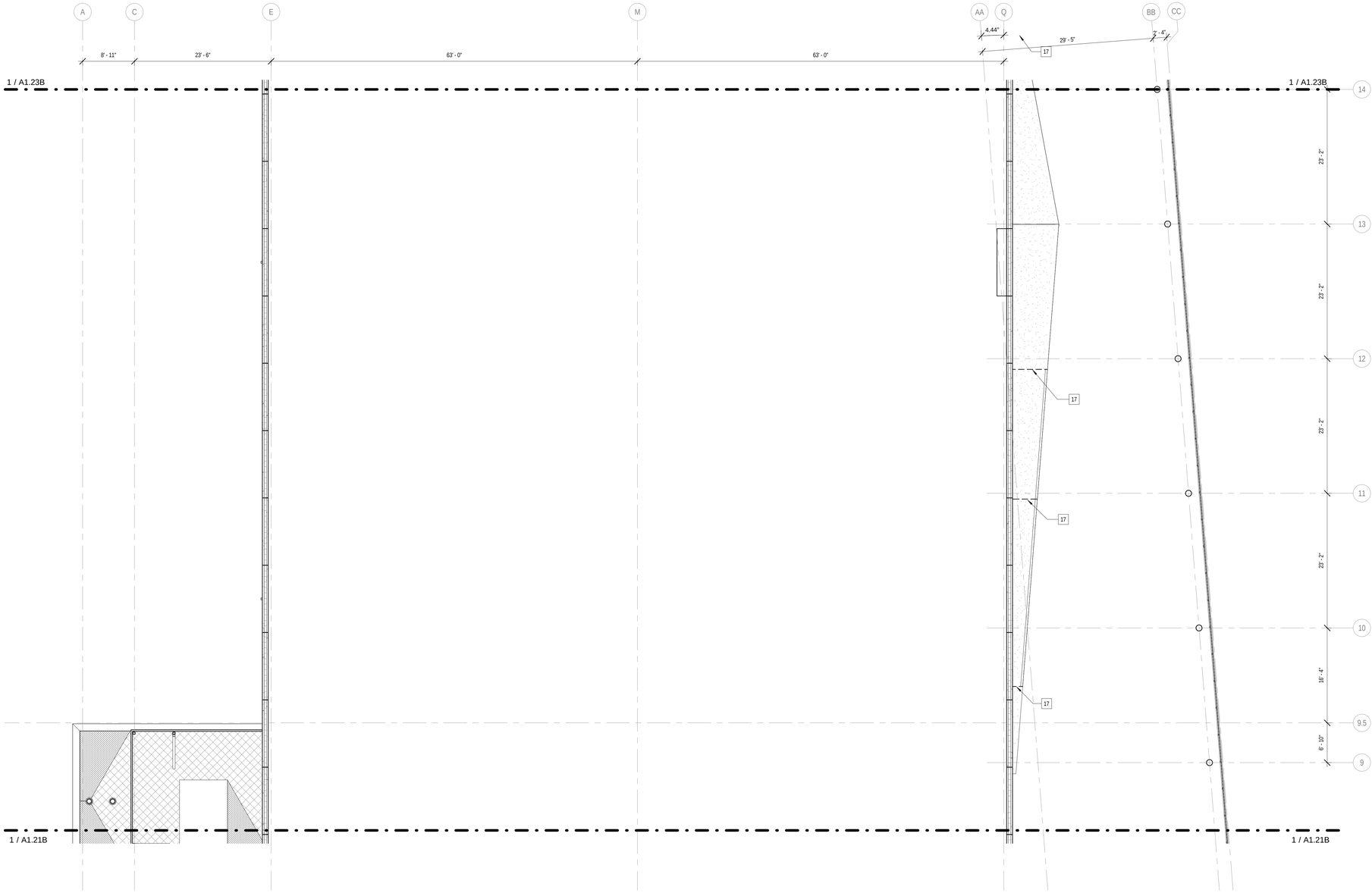
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN
AREA 2

SHEET NUMBER:
A1.22A

8/28/2015 4:12:38 PM



1 LEVEL 2 - AREA 2 DIMENSION PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- XX — WINDOW TAG
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- 1 / SIM / A9XX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 / SIM / A9XX.XX — SECTION CALLOUT
- 1 / A101 / 1 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
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FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
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12. REFER TO A10.00 FOR PARTITION SCHEDULE.
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FLOOR PLAN REFERENCED NOTES:

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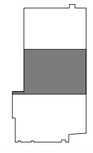
DKA PROJECT NO: 14-004

KEY PLAN:



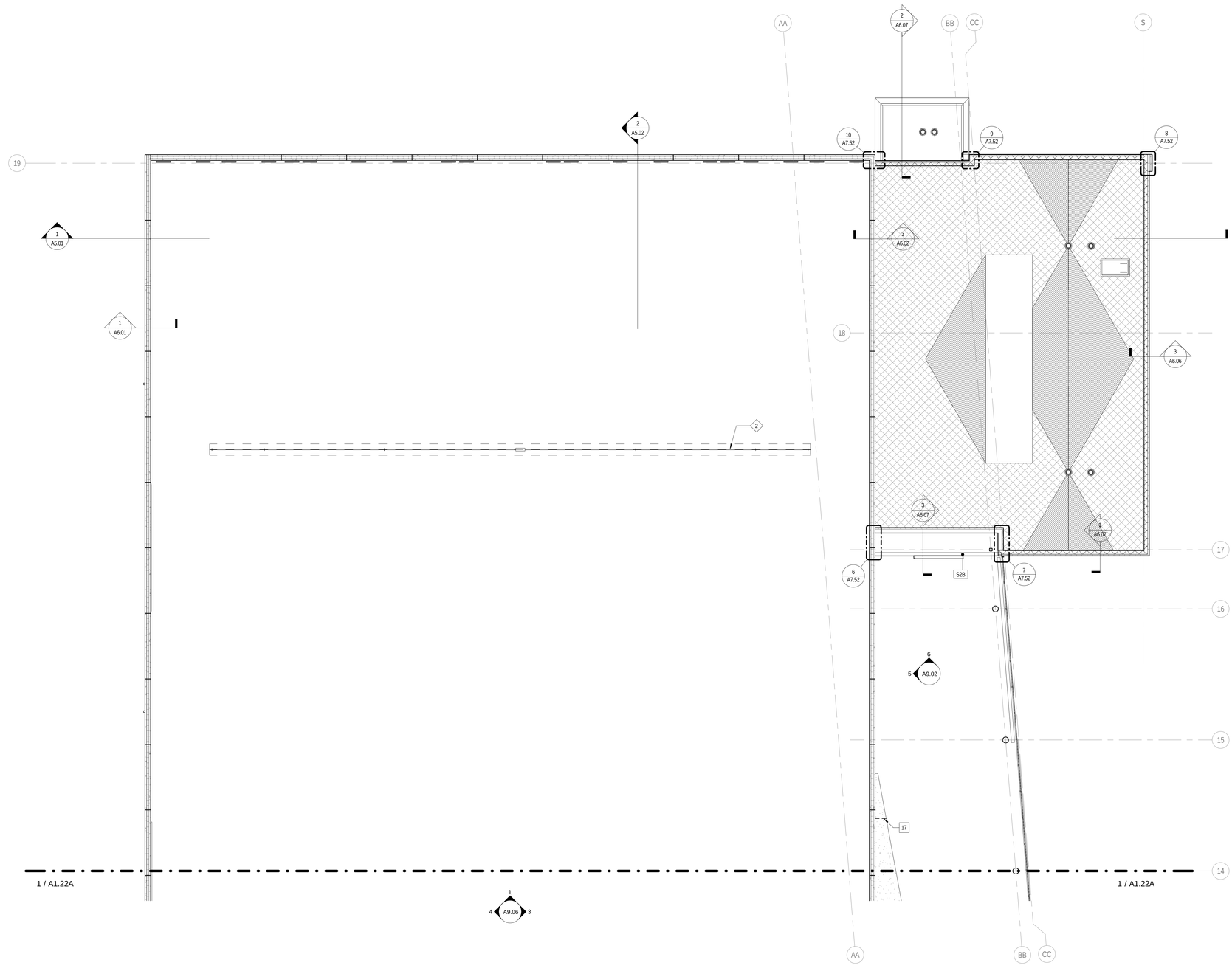
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2
DIMENSION PLAN
AREA 2

SHEET NUMBER:
A1.22B

8/28/2015 4:12:40 PM



1 LEVEL 2 - AREA 3 PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- SIM 1 / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 / 1 — ELEVATION CALLOUT
- DATUM / ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN
3. CEILING MOUNTED BASKETBALL BACKBOARD
4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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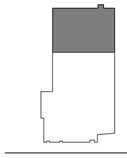
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



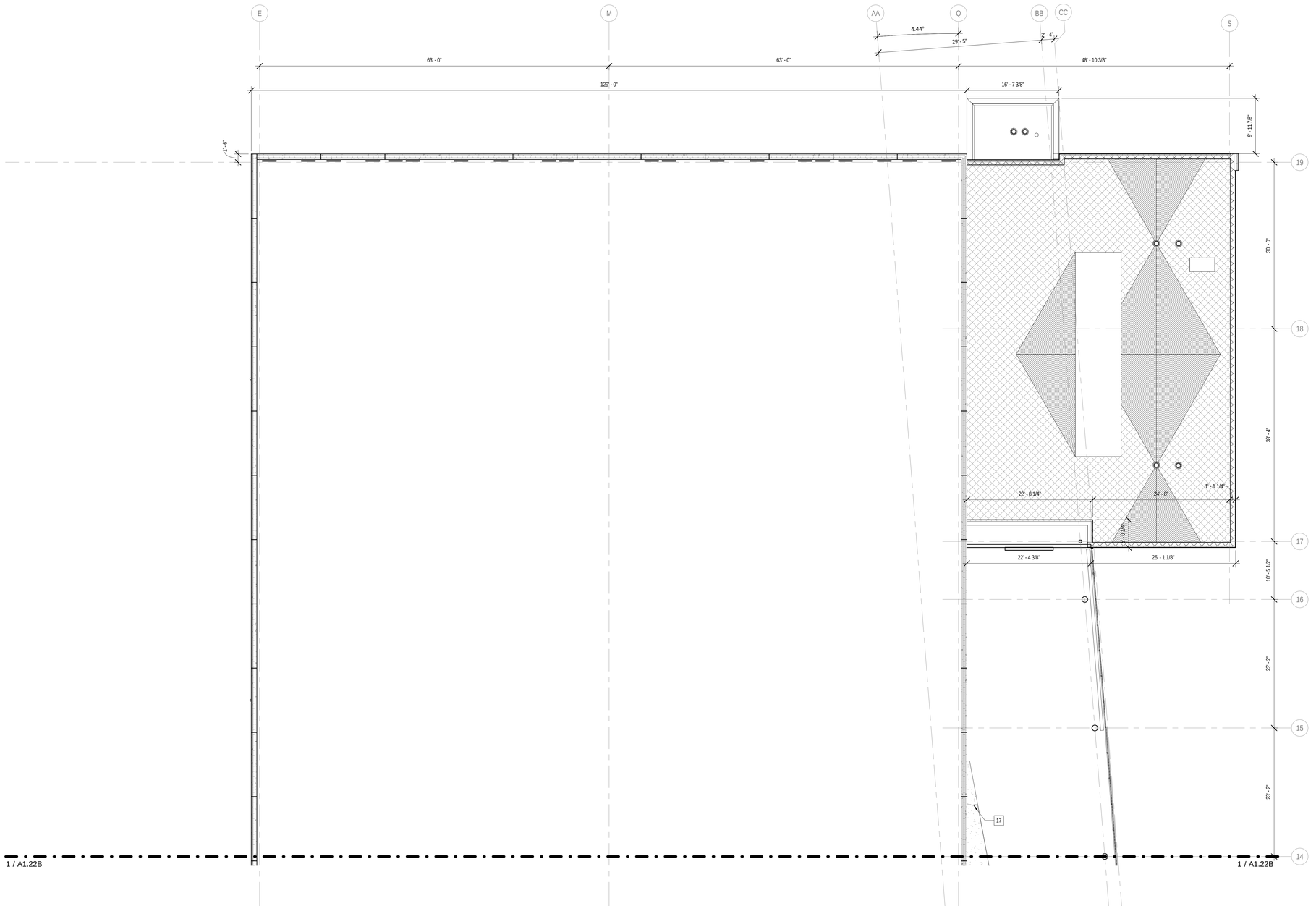
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN
AREA 3

SHEET NUMBER:
A1.23A

8/28/2015 4:12:43 PM



1 LEVEL 2 - AREA 3 DIMENSION PLAN
1/8" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX / 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO PARTITION TYPES SCHEDULE
- 1 / SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 / SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — REFERENCED NOTE
- TA-XX — TOILET ACCESSORY TAG
- 1 — CASEWORK TAG
- 1 — EQUIPMENT TAG

FLOOR PLAN GENERAL NOTES:

1. ALL INTERIOR CMU PARTITIONS ARE TYPE M1C UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE S1B UNLESS NOTED OTHERWISE.
3. FINISH FLOOR ELEVATION OF 0'-0" = 567.50' USGS AS NOTED ON SHEET C3.1.
4. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
5. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
6. DO NOT SCALE DRAWINGS.
7. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
8. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
10. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
11. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
12. REFER TO A10.00 FOR PARTITION SCHEDULE.
13. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. OPERABLE PARTITION
2. DIVIDER CURTAIN.
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4. PROVIDE BLACK PAINT FINISH AT METAL FILLER PANELS AT ENDS/CORNERS, AND AT SLOPED LOCKER TOPS.
5. METAL LOCKERS WITHOUT HATCH INFILL TO BE BLACK PAINT FINISH; METAL LOCKERS WITH HATCH INFILL TO BE CUSTOM GRAY PAINT FINISH. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
6. PROVIDE TOILET ACCESSORY TA-5A.
7. PROVIDE TWO FRAMELESS MIRRORS AT 48"W X 72"H.
8. GROUND FACE CMU - COLOR 1.
9. GROUND FACE CMU - COLOR 2.
10. GROUND FACE CMU - COLOR 3.
11. HYDROTHERAPY TUB, N.I.C.
12. TELESCOPING BLEACHER.
13. DIVIDER CURTAIN, TYPE A.
14. DIVIDER CURTAIN, TYPE B.
15. VOLLEYBALL FLOOR SLEEVE - COORDINATE THICKENED SLAB REQUIREMENTS WITH MANUFACTURER.
16. PAINT ALL WALLS P-1. FLOORING TO BE SEALED CONCRETE. REFER TO FINISH LEGEND FOR FINISH DESIGNATIONS.
17. CONTROL JOINT IN GYP. BD. FACE (TYP.) - ALIGN WITH CONTROL JOINT ON VERTICAL FACE OF GYP. BD. PARTITION.
18. SLOPE SURFACE OF ZINC COMPOSITE PANEL AT 1/4" PER FOOT.
19. PROVIDE SINGLE-TIER WOOD LOCKERS. LOCKERS WITH 'A' DESIGNATION TO BE ADA TYPE.
20. ALONG TOILET ROOM CMU WALL, WITHIN PLENUM AREA, PROVIDE VOIDS IN WALL EQUALING 2,300 SQ. IN. FOR RETURN AIR TRANSFER. PROVIDE BOND BEAM LINTEL WHERE VOID SPANS MORE THAN 1 CMU BLOCK.

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JOLIET JUNIOR COLLEGE
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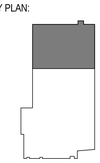
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



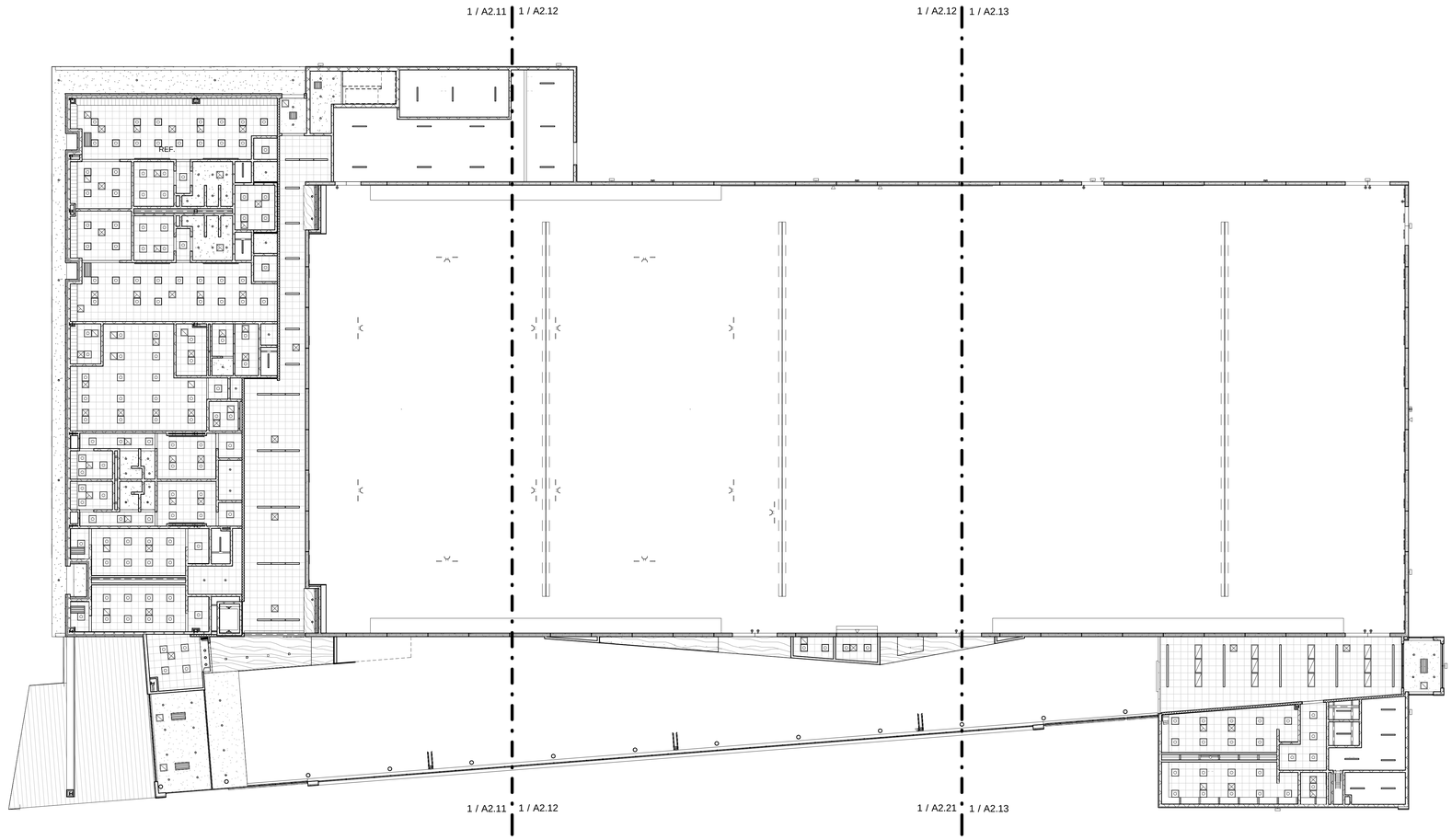
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 DIMENSION PLAN AREA 3

SHEET NUMBER:
A1.23B

8/28/2015 4:12:46 PM



1 LEVEL 1 - OVERALL RCP
1/16" = 1'-0"

N

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A.F.F.
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- PERFORATED METAL CEILING
- MANUAL ROLLER SHADE
- MANUAL VERTICAL BLINDS
- MANUAL PULL-DOWN PROJECTOR SCREEN
- CEILING MOUNTED PROJECTOR
- CABINET UNIT HEATER
- RECESSED 2'x2' FLUORESCENT FIXTURE
- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
- WALL LIGHT MOUNT FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- RECESSED LIGHT LINEAR FIXTURE
- RECESSED DOWN LIGHT
- SURFACE LIGHT MOUNT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
- (S) SPEAKER
- (SC) CLOSED CIRCUIT CAMERA
- (C) AV SYSTEMS CAMERA
- (OC) OCCUPANT SENSOR
- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- (VS) VACANCY SENSOR

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL RELFECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED P-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

1. PAINT EXPOSED BEAMS WITH P-2 PAINT
2. PROVIDE 2" PERIMETER TRIM
3. PROVIDE 6" PERIMETER TRIM
4. PROVIDE 4" PERIMETER TRIM
5. DASHED LINE ABOVE INDICATES HEADER ABOVE
6. POCKET FOR CURTAIN TRACK
7. PAINT EXPOSED CEILING TO EXTENTS VISIBLE BEYOND ADJ. FINISHED CEILING
8. ALIGN CONTROL JOINT WITH STEEL COLUMN, U.N.O.
9. SKYLIGHT OPENING
10. MULTI-SPORT CAGE
11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
14. FORWARD-FOLDING BACKSTOP
15. ROLLER SHADE - TYPE 1
16. DASHED LINES INDICATE WOOD PANEL SEAMS
17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
0	PAINTED EXPOSED STRUCTURE - P-2
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
2	INTERIOR PLASTER CEILING SYSTEM ON METAL FRAMING
3	EXTERIOR PLASTER CEILING SYSTEM ON COLD-FORMED METAL FRAMING
4	2X2 ACOUSTICAL PANEL CEILING SYSTEM
5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
6	2X4 ACOUSTICAL PANEL CEILING SYSTEM
7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
9	WOOD VENEER PANEL
10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1
OVERALL RCP

SHEET NUMBER:
A2.10

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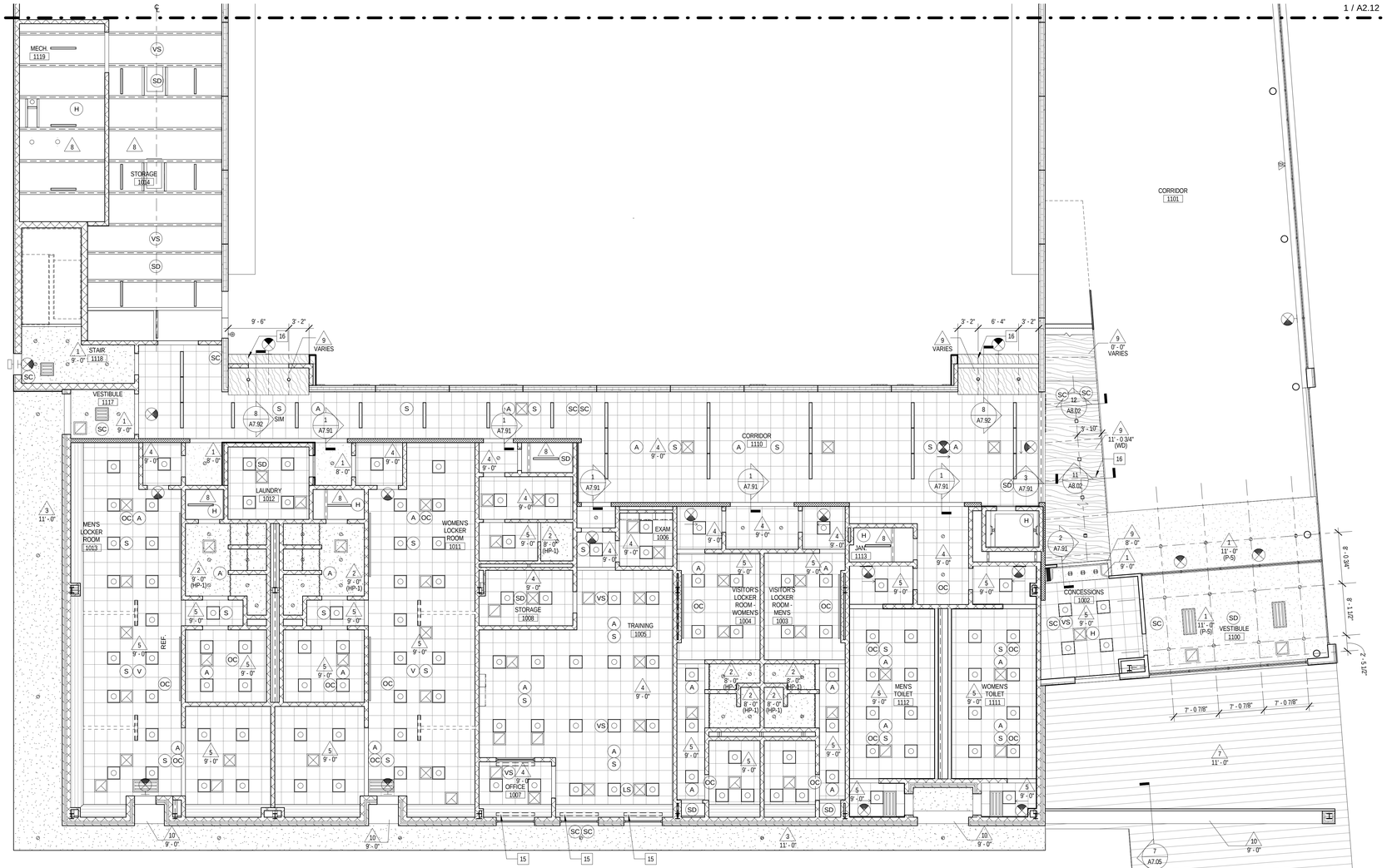

1 LEVEL 1 - AREA 1 RCP
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A.F.F.
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- PERFORATED METAL CEILING
- MANUAL ROLLER SHADE
- MANUAL VERTICAL BLINDS
- MANUAL PULL-DOWN PROJECTOR SCREEN
- CEILING MOUNTED PROJECTOR
- CABINET UNIT HEATER
- RECESSED 2'x2' FLUORESCENT FIXTURE
- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
- WALL LIGHT MOUNT FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- RECESSED LIGHT LINEAR FIXTURE
- RECESSED DOWN LIGHT
- SURFACE LIGHT MOUNT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
- (S) SPEAKER
- (SC) CLOSED CIRCUIT CAMERA
- (C) AV SYSTEMS CAMERA
- (OC) OCCUPANT SENSOR
- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- (VS) VACANCY SENSOR

RCP GENERAL NOTES:

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3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED P-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

1. PAINT EXPOSED BEAMS WITH P-2 PAINT
2. PROVIDE 2" PERIMETER TRIM
3. PROVIDE 6" PERIMETER TRIM
4. PROVIDE 4" PERIMETER TRIM
5. DASHED LINE ABOVE INDICATES HEADER ABOVE
6. POCKET FOR CURTAIN TRACK
7. PAINT EXPOSED CEILING TO EXTENTS VISIBLE BEYOND ADJ. FINISHED CEILING
8. ALIGN CONTROL JOINT WITH STEEL COLUMN, U.N.O.
9. SKYLIGHT OPENING
10. MULTI-SPORT CAGE
11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
14. FORWARD-FOLDING BACKSTOP
15. ROLLER SHADE - TYPE 1
16. DASHED LINES INDICATE WOOD PANEL SEAMS
17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
0	PAINTED EXPOSED STRUCTURE - P-2
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
2	INTERIOR PLASTER CEILING SYSTEM ON METAL FRAMING
3	EXTERIOR PLASTER CEILING SYSTEM ON COLD-FORMED METAL FRAMING
4	2X2 ACOUSTICAL PANEL CEILING SYSTEM
5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
6	2X4 ACOUSTICAL PANEL CEILING SYSTEM
7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
9	WOOD VENEER PANEL
10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

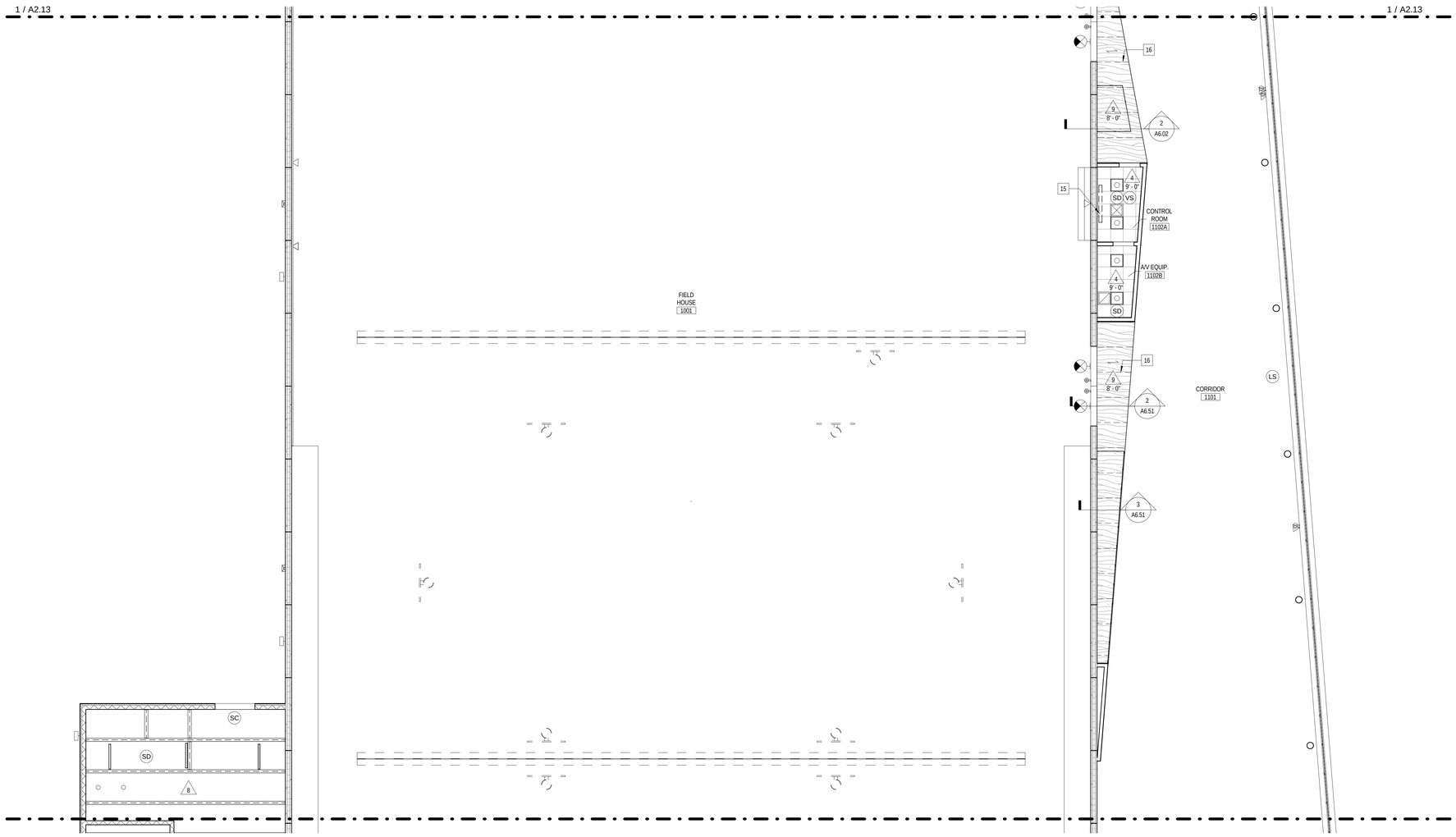
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 RCP
AREA 1

SHEET NUMBER:
A2.11

8/28/2015 4:12:58 PM



1 LEVEL 1 - AREA 2 RCP
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A.F.F.
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- PERFORATED METAL CEILING
- MANUAL ROLLER SHADE
- MANUAL VERTICAL BLINDS
- MANUAL PULL-DOWN PROJECTOR SCREEN
- CEILING MOUNTED PROJECTOR
- CABINET UNIT HEATER
- RECESSED 2'X2' FLUORESCENT FIXTURE
- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
- WALL LIGHT MOUNT FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- RECESSED LIGHT LINEAR FIXTURE
- RECESSED DOWN LIGHT
- SURFACE LIGHT MOUNT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
- (S) SPEAKER
- (SC) CLOSED CIRCUIT CAMERA
- (C) AV SYSTEMS CAMERA
- (OC) OCCUPANT SENSOR
- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- (VS) VACANCY SENSOR

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED P-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

1. PAINT EXPOSED BEAMS WITH P-2 PAINT
2. PROVIDE 2" PERIMETER TRIM
3. PROVIDE 6" PERIMETER TRIM
4. PROVIDE 4" PERIMETER TRIM
5. DASHED LINE ABOVE INDICATES HEADER ABOVE
6. POCKET FOR CURTAIN TRACK
7. PAINT EXPOSED CEILING TO EXTENTS VISIBLE BEYOND ADJ. FINISHED CEILING
8. ALIGN CONTROL JOINT WITH STEEL COLUMN, U.N.O.
9. SKYLIGHT OPENING
10. MULTI-SPORT CAGE
11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
14. FORWARD-FOLDING BACKSTOP
15. ROLLER SHADE - TYPE 1
16. DASHED LINES INDICATE WOOD PANEL SEAMS
17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
0	PAINTED EXPOSED STRUCTURE - P-2
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
2	INTERIOR PLASTER CEILING SYSTEM ON METAL FRAMING
3	EXTERIOR PLASTER CEILING SYSTEM ON COLD-FORMED METAL FRAMING
4	2X2 ACOUSTICAL PANEL CEILING SYSTEM
5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
6	2X4 ACOUSTICAL PANEL CEILING SYSTEM
7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
9	WOOD VENEER PANEL
10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

ARCHITECT OF RECORD
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CIVIL ENGINEERING
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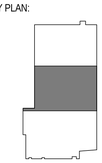
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



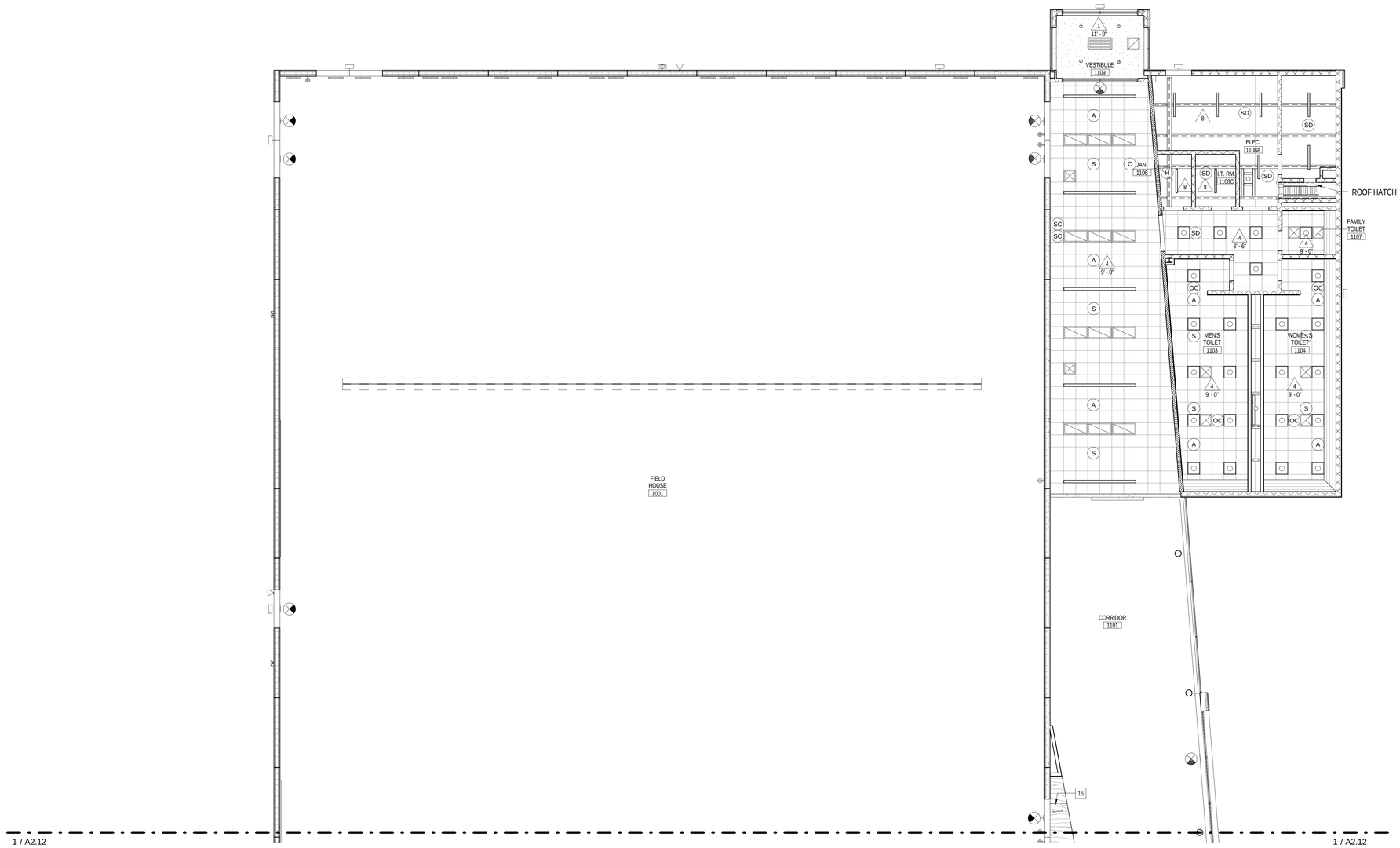
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 RCP
AREA 2

SHEET NUMBER:
A2.12

8/28/2015 4:13:01 PM



1 LEVEL 1 - AREA 3 RCP
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- GYPSUM BOARD CEILING OR SOFFIT
- PERFORATED METAL CEILING
- MANUAL ROLLER SHADE
- MANUAL VERTICAL BLINDS
- MANUAL PULL-DOWN PROJECTOR SCREEN
- CEILING MOUNTED PROJECTOR
- CABINET UNIT HEATER
- RECESSED 2'X2' FLUORESCENT FIXTURE
- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
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- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
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- SUPPLY AIR GRILLE
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- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
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6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O..

RCP REFERENCED NOTES:

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2. PROVIDE 2" PERIMETER TRIM
3. PROVIDE 6" PERIMETER TRIM
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11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
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15. ROLLER SHADE - TYPE 1
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17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
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2	INTERIOR PLASTER CEILING SYSTEM ON METAL FRAMING
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5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
6	2X4 ACOUSTICAL PANEL CEILING SYSTEM
7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
9	WOOD VENEER PANEL
10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

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JOLIET JUNIOR COLLEGE
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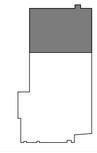
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 RCP
AREA 3

SHEET NUMBER:
A2.13

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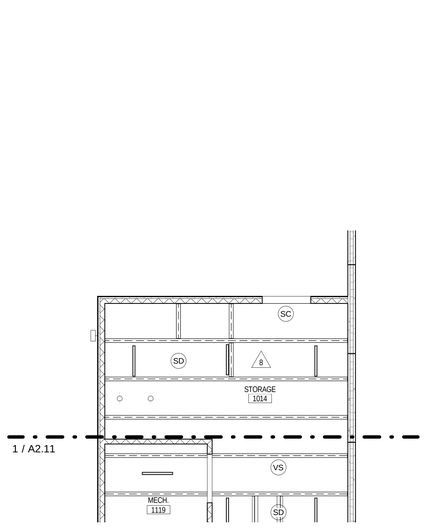
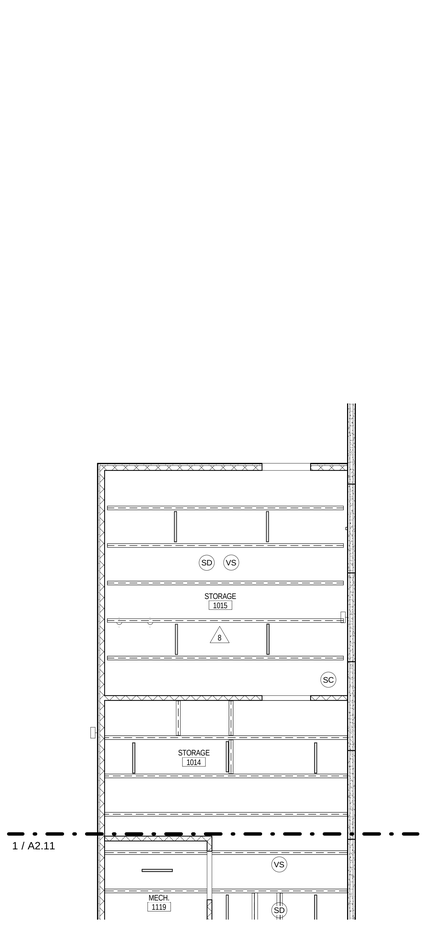
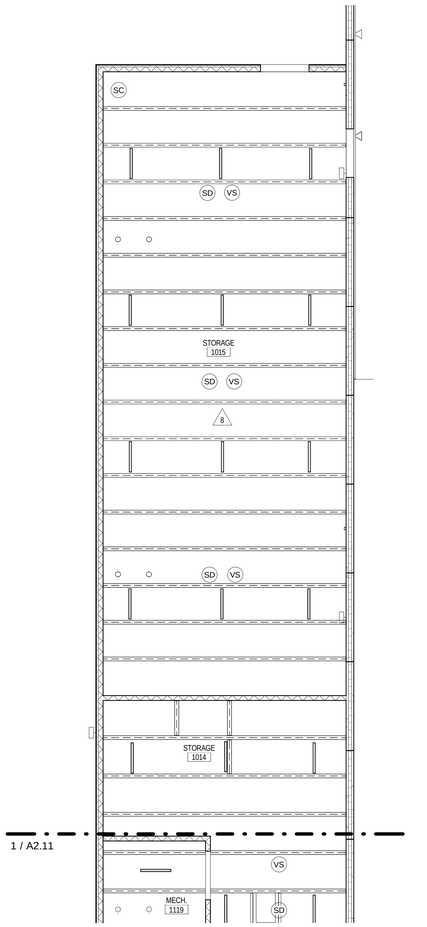


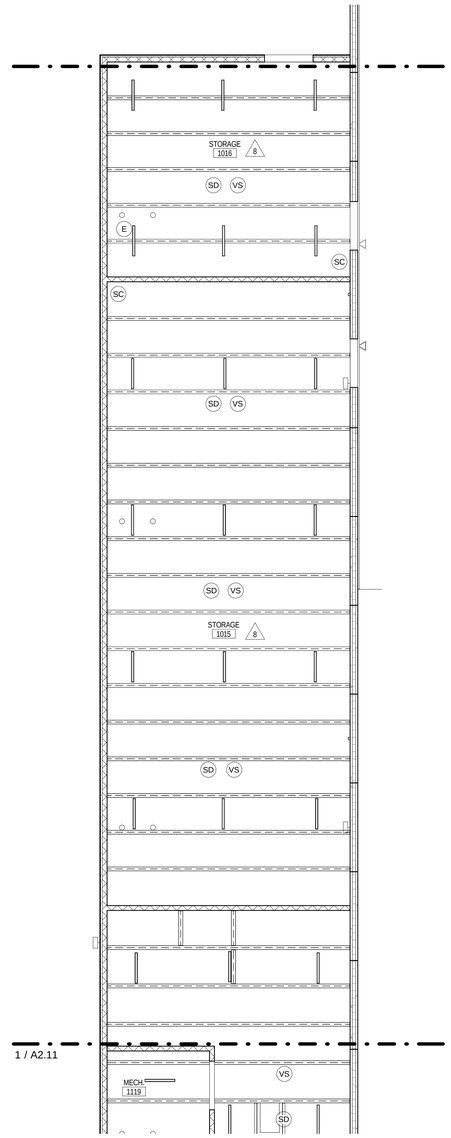
4 LEVEL 1 - BASE BID
1/8" = 1'-0"



1 LEVEL 1 - ALT BID 1
1/8" = 1'-0"



2 LEVEL 1 - ALT BID 2
1/8" = 1'-0"



3 LEVEL 1 - ALT BID 3
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

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- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
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6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

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16. DASHED LINES INDICATE WOOD PANEL SEAMS
17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

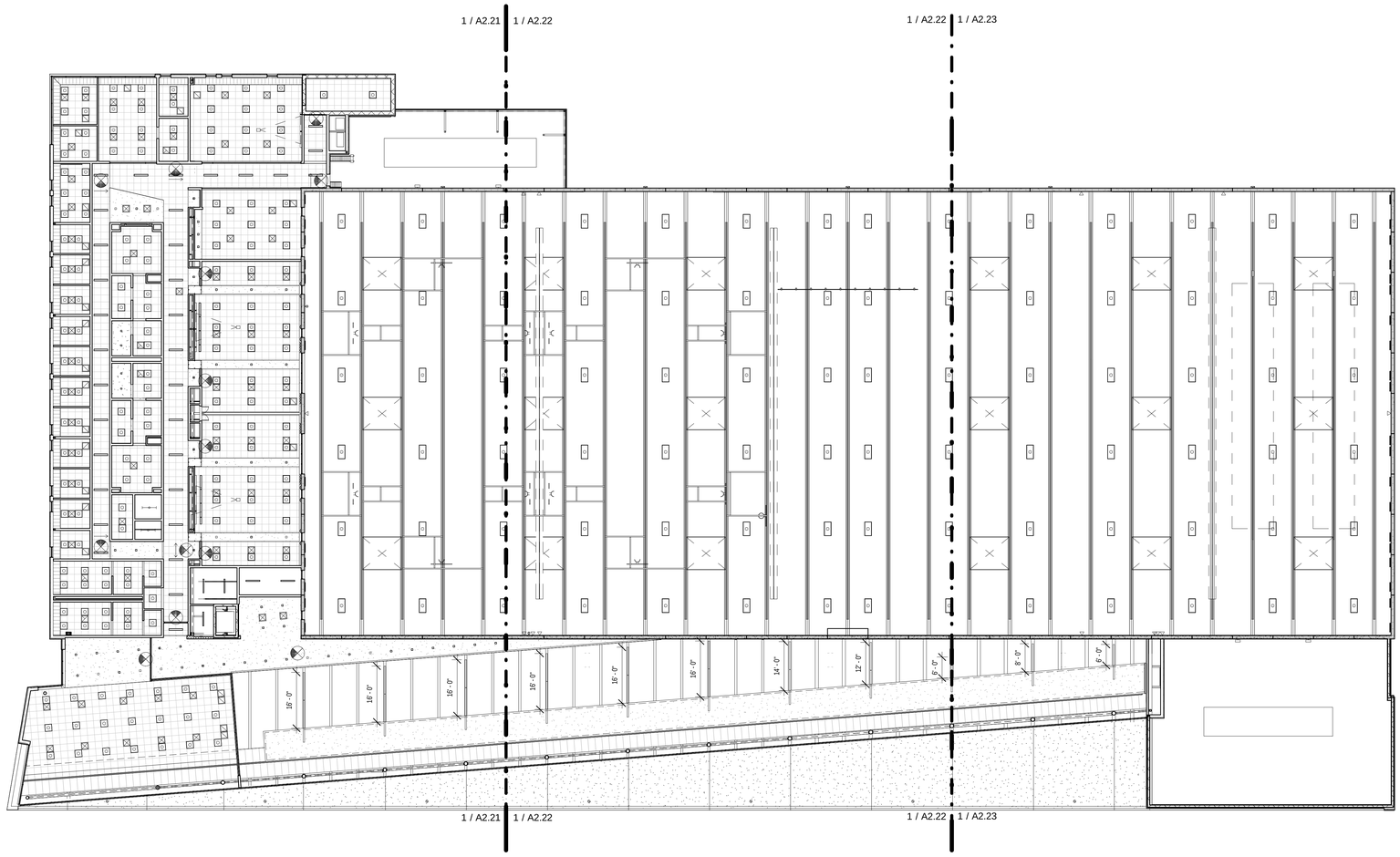
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 RCP - ALTERNATE BID

SHEET NUMBER:
A2.14

8/28/2015 4:13:09 PM



1 LEVEL 2 - OVERALL RCP
1/16" = 1'-0"

N

RCP SYMBOLS LEGEND:

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CEILING TYPES:

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4	2X2 ACOUSTICAL PANEL CEILING SYSTEM
5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
6	2X4 ACOUSTICAL PANEL CEILING SYSTEM
7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
9	WOOD VENEER PANEL
10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

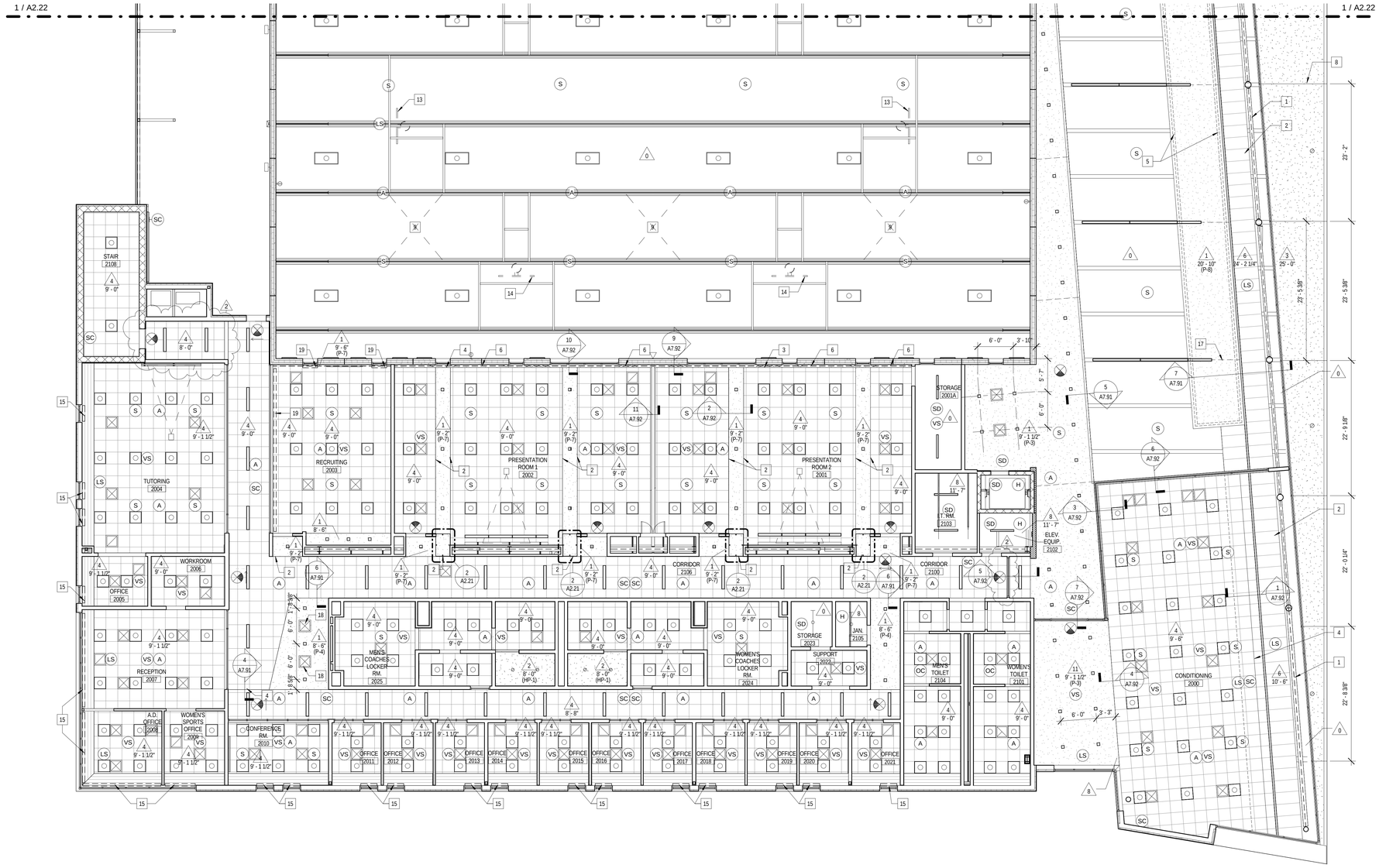
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

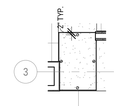
SHEET TITLE:
LEVEL 2
OVERALL RCP

SHEET NUMBER:
A2.20

8/28/2015 4:13:16 PM



1 LEVEL 2 - AREA 1 RCP
1/8" = 1'-0"



2 ENLARGED RCP- DISPLAY CASE
1/4" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A.F.F.
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- PERFORATED METAL CEILING
- MANUAL ROLLER SHADE
- MANUAL VERTICAL BLINDS
- MANUAL PULL-DOWN PROJECTOR SCREEN
- CEILING MOUNTED PROJECTOR
- CABINET UNIT HEATER
- RECESSED 2'x2' FLUORESCENT FIXTURE
- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
- WALL LIGHT MOUNT FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- RECESSED LIGHT LINEAR FIXTURE
- RECESSED DOWN LIGHT
- SURFACE LIGHT MOUNT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
- (S) SPEAKER
- (SC) CLOSED CIRCUIT CAMERA
- (C) AV SYSTEMS CAMERA
- (OC) OCCUPANT SENSOR
- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- (VS) VACANCY SENSOR

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL RELFECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED P-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

1. PAINT EXPOSED BEAMS WITH P-2 PAINT
2. PROVIDE 2" PERIMETER TRIM
3. PROVIDE 6" PERIMETER TRIM
4. PROVIDE 4" PERIMETER TRIM
5. DASHED LINE ABOVE INDICATES HEADER ABOVE
6. POCKET FOR CURTAIN TRACK
7. PAINT EXPOSED CEILING TO EXTENTS VISIBLE BEYOND ADJ. FINISHED CEILING
8. ALIGN CONTROL JOINT WITH STEEL COLUMN, U.N.O.
9. SKYLIGHT OPENING
10. MULTI-SPORT CAGE
11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
14. FORWARD-FOLDING BACKSTOP
15. ROLLER SHADE - TYPE 1
16. DASHED LINES INDICATE WOOD PANEL SEAMS
17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
0	PAINTED EXPOSED STRUCTURE - P-2
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
2	INTERIOR PLASTER CEILING SYSTEM ON METAL FRAMING
3	EXTERIOR PLASTER CEILING SYSTEM ON COLD-FORMED METAL FRAMING
4	2X2 ACOUSTICAL PANEL CEILING SYSTEM
5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
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7	FLATLOCK ZINC PANEL SYSTEM - COLOR 2
8	EXPOSED STRUCTURE - UNPAINTED
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10	ZINC COMPOSITE PANEL
11	1/2" PAINTED GYP BOARD ON DRYWALL SUSPENSION SYSTEM

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JOLIET JUNIOR COLLEGE
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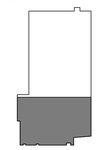
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



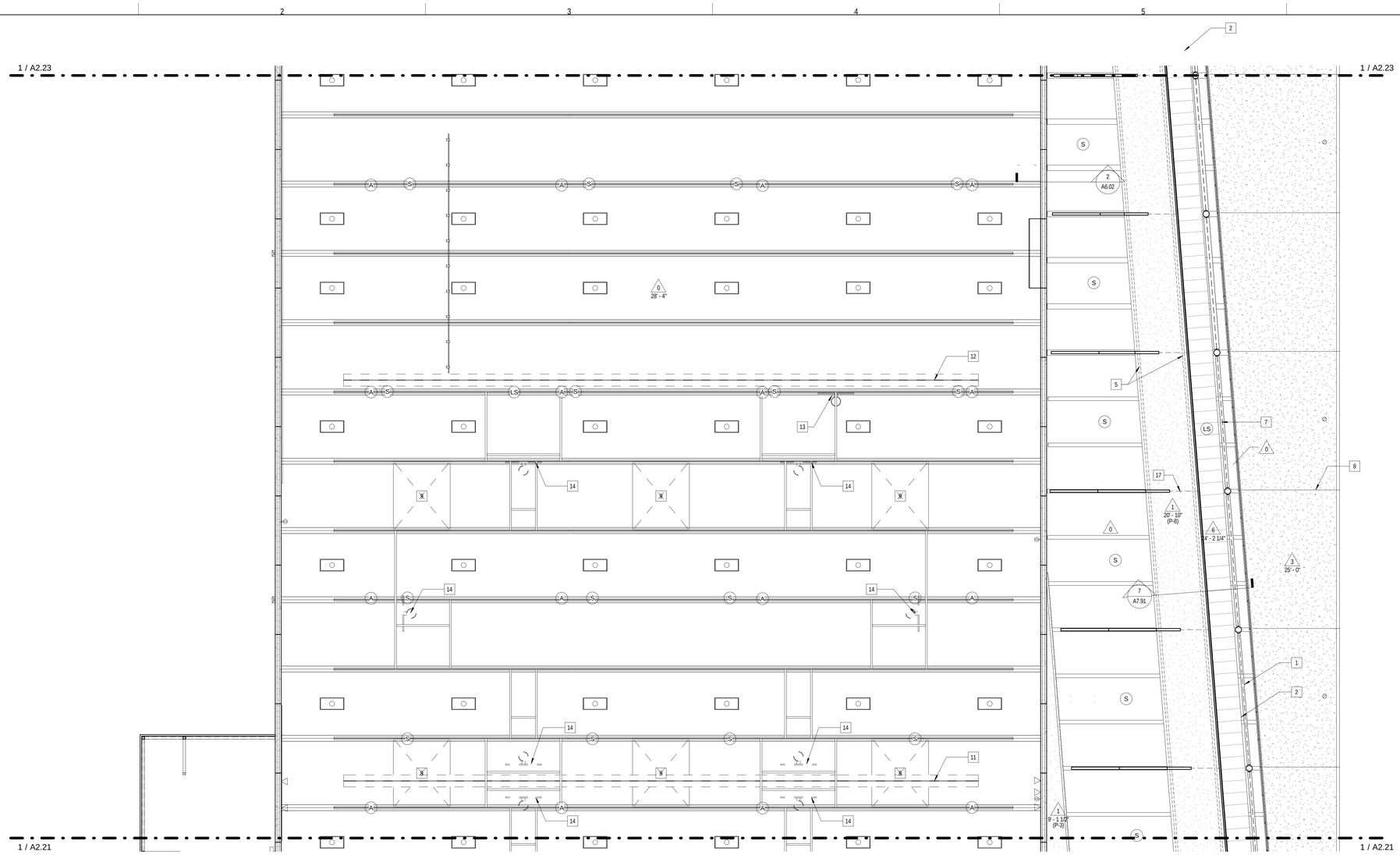
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
LEVEL 2 RCP
AREA 1

SHEET NUMBER:
A2.21

8/28/2015 4:13:23 PM



1 LEVEL 2 - AREA 2 RCP
1/8" = 1'-0"

PROJECT - NOTES - RCP1
12" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- RECESSED FLUORECENT LIGHT LINEAR FIXTURE
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- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
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- (C) AV SYSTEMS CAMERA
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- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- (VS) VACANCY SENSOR

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6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
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8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

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2. PROVIDE 2" PERIMETER TRIM
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9. SKYLIGHT OPENING
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11. DIVIDER CURTAIN - TYPE A
12. DIVIDER CURTAIN - TYPE B
13. SIDE-FOLDING BACKSTOP WITH ELECTRONIC SCOREBOARD TYPE 1
14. FORWARD-FOLDING BACKSTOP
15. ROLLER SHADE - TYPE 1
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18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

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5	2X2 ACOUSTICAL PANEL CEILING SYSTEM - HIGH HUMIDITY
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10	ZINC COMPOSITE PANEL
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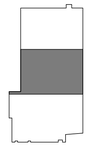
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 RCP
AREA 2

SHEET NUMBER:
A2.22

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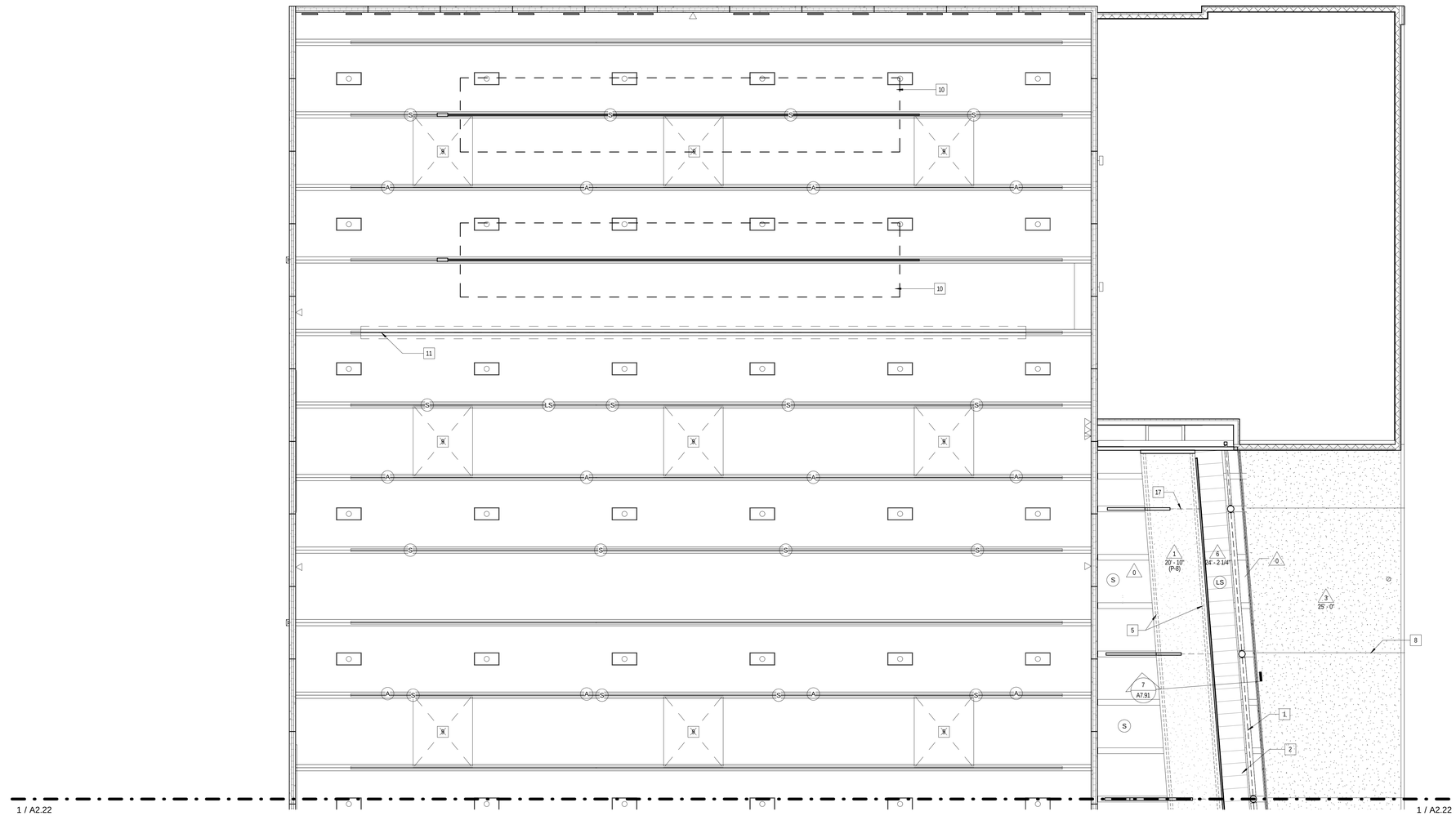

1 LEVEL 2 - AREA 3 RCP
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

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- ACCESS PANEL
- EXIT SIGN- SEE CODE COMPLIANCE PLAN
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RCP GENERAL NOTES:

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4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED P-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CEILINGS SCHEDULED TO BE PAINTED P-2, INCLUDING STRUCTURE, DECK, AND HVAC ITEMS, UNLESS NOTED OTHERWISE.
8. ALL GYP. BD. HEADERS TO BE 8'-0" A.F.F., U.N.O.

RCP REFERENCED NOTES:

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2. PROVIDE 2" PERIMETER TRIM
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12. DIVIDER CURTAIN - TYPE B
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15. ROLLER SHADE - TYPE 1
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17. DASHED LINES INDICATED GYP. CONTROL JOINT, TYP.
18. PAINT DIFFUSERS, P-4 TO MATCH GYP. CEILING
19. ROLLERSHADE - TYPE 2

CEILING TYPES:

TYPE	DESCRIPTION
0	PAINTED EXPOSED STRUCTURE - P-2
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
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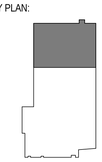
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 RCP
AREA 3

SHEET NUMBER:
A2.23

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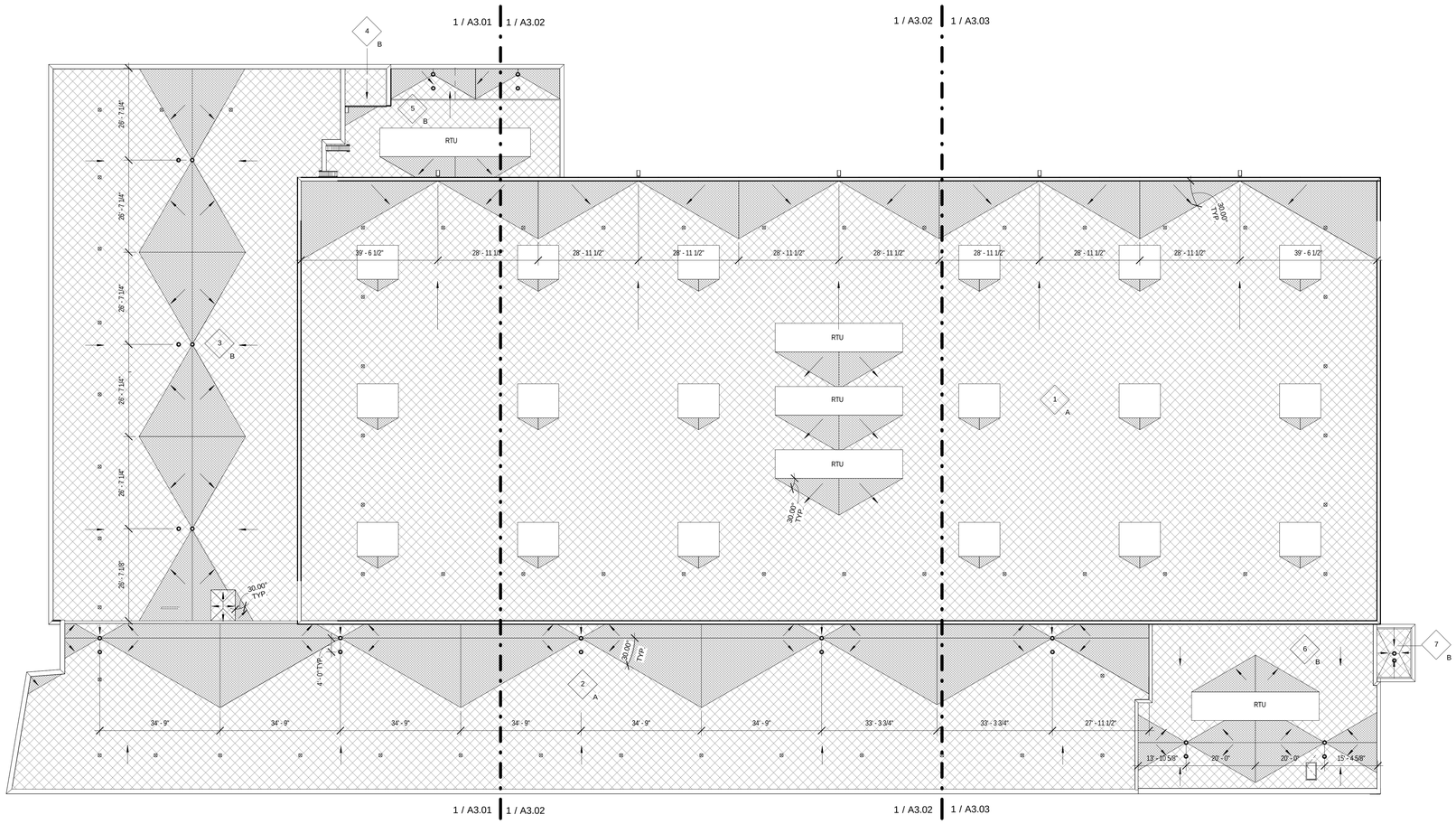

1 ROOF - OVERALL PLAN
1/16" = 1'-0"

ROOF PLAN LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOF AREA BOUNDARY LINE
- XX / X — ROOF AREA NUMBER / ROOF AREA TYPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- VTR — PIPE PENETRATION
- ROOF DAVIT
- 24" x 24" x 2" RUBBER ROOF PAVER
- EF — EXHAUST FAN
- HB — HOSE BIB IN WALL
- HB — HOSE BIB PENETRATION THRU ROOF
- SPLASH PAD
- FLEXIBLE WALKWAY
- SLOPE DIRECTION
- AREA OF SLOPING STRUCTURAL ROOF DECK. INSULATION WITH A SURFACE SLOPE OF 1/4" PER 1'-0"
- TAPERED INSULATION SADDLE WITH A SURFACE SLOPE OF 1/4" PER 1'-0" (1/2" PER FOOT PANEL SLOPE)
- CU — CONDENSOR UNIT
- GAS LINE

ROOF PLAN GENERAL NOTES:

1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.
2. ALIGN COPING JOINTS WITH JOINTS IN ZINC COMPOSITE PANELS AND FLATLOCK ZINC PANELS.
3. PROVIDE ALUMINUM COPING AT ROOF AREA 1. PROVIDE ZINC COPING AT ALL OTHER ROOF AREAS. ZINC COPING COLOR TO MATCH ZINC WALL COLOR.

ROOF PLAN REFERENCED NOTES:

1. ROOF HATCH.
2. ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
3. SHIPS LADDER - SEE A8.03.
4. GUTTER AT HIGH ROOF DRAINS TO DOWNSPOUTS MOUNTED TO SIDE OF STAIRWELL
5. CONDUCTOR BOX AND DOWNSPOUT.
6. SKYLIGHT.
7. ROOF DAVIT - SEE 2/A3.10 FOR FLASHING DETAIL. SEE STRUCTURAL DRAWINGS FOR CONNECTION DETAIL TO BEAMS AND TRUSSES.
8. SCUPPER AND DOWNSPOUT - PROVIDE SPLASHPAD WHERE DOWNSPOUT TERMINATES ON ROOF.
9. ROOF ANTENNA.

ROOF SYSTEM TYPES:

ROOF TYPE A: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. 1/2" COVER BOARD.
6. EPDM MEMBRANE - FULLY ADHERED.
7. EPDM SHEET FLASHING.
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

ROOF TYPE B: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. EPDM MEMBRANE - FULLY ADHERED.
6. EPDM SHEET FLASHING.
7. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

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P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

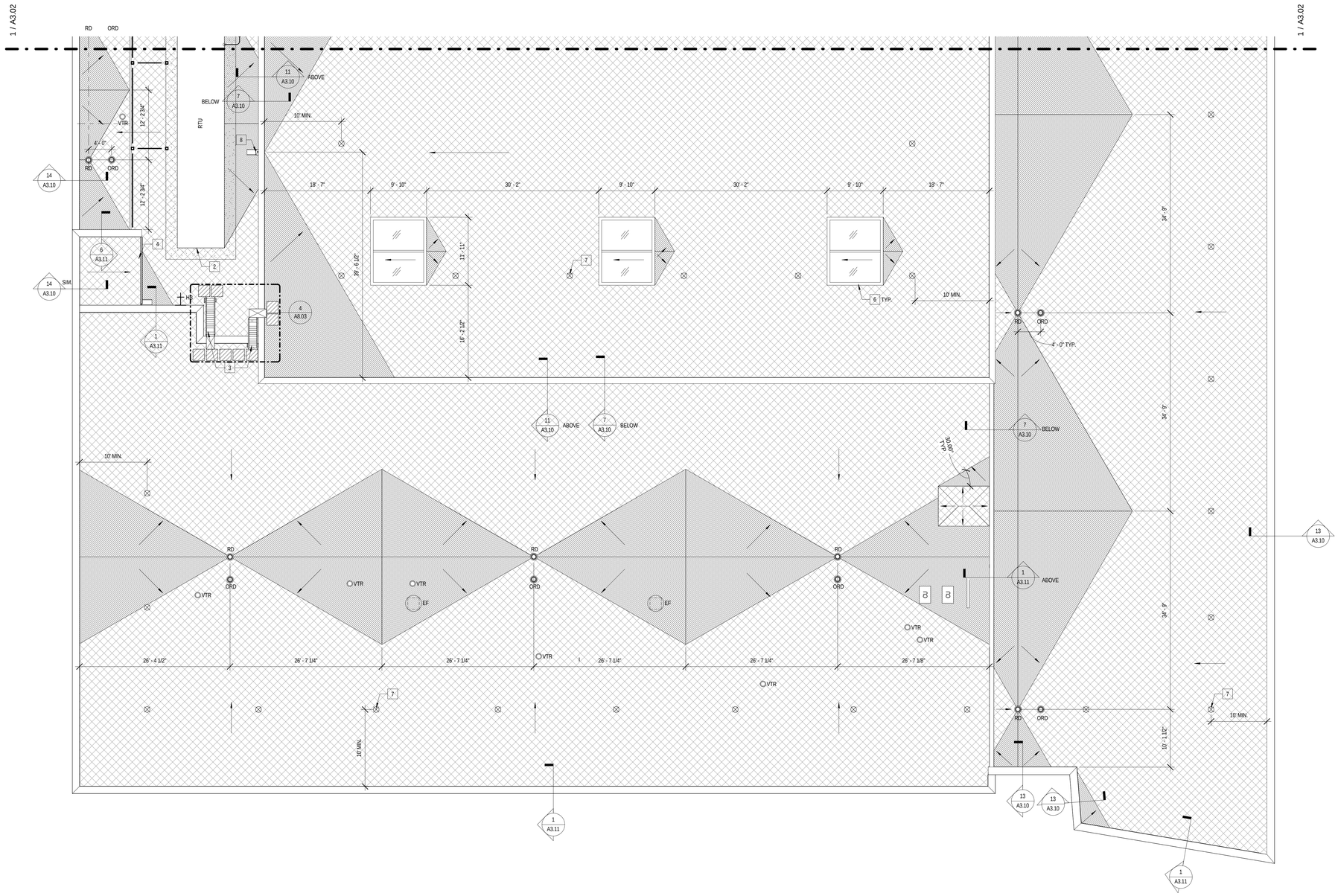
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
A3.00

8/28/2015 4:13:37 PM



1 ROOF PLAN - AREA 1
1/8" = 1'-0"

ROOF PLAN LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOF AREA BOUNDARY LINE
- XX / X — ROOF AREA NUMBER / ROOF AREA TYPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- VTR — PIPE PENETRATION
- ROOF DAVIT
- 24" x 24" x 2" RUBBER ROOF PAVER
- EF — EXHAUST FAN
- HB — HOSE BIB IN WALL
- HB — HOSE BIB PENETRATION THRU ROOF
- SPLASH PAD
- FLEXIBLE WALKWAY
- SLOPE DIRECTION
- AREA OF SLOPING STRUCTURAL ROOF DECK. INSULATION WITH A SURFACE SLOPE OF 1/4" PER 1'-0"
- TAPERED INSULATION SADDLE WITH A SURFACE SLOPE OF 1/4" PER 1'-0" (1/2" PER FOOT PANEL SLOPE)
- CU — CONDENSOR UNIT
- GAS LINE

ROOF PLAN GENERAL NOTES:

1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.
2. ALIGN COPING JOINTS WITH JOINTS IN ZINC COMPOSITE PANELS AND FLATLOCK ZINC PANELS.
3. PROVIDE ALUMINUM COPING AT ROOF AREA 1. PROVIDE ZINC COPING AT ALL OTHER ROOF AREAS. ZINC COPING COLOR TO MATCH ZINC WALL COLOR.

ROOF PLAN REFERENCED NOTES:

1

1. ROOF HATCH.
2. ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
3. SHIPS LADDER - SEE A8.03.
4. GUTTER AT HIGH ROOF DRAINS TO DOWNSPOUTS MOUNTED TO SIDE OF STAIRWELL
5. CONDUCTOR BOX AND DOWNSPOUT.
6. SKYLIGHT.
7. ROOF DAVIT - SEE 2/A3.10 FOR FLASHING DETAIL. SEE STRUCTURAL DRAWINGS FOR CONNECTION DETAIL TO BEAMS AND TRUSSES.
8. SCUPPER AND DOWNSPOUT - PROVIDE SPLASHPAD WHERE DOWNSPOUT TERMINATES ON ROOF.
9. ROOF ANTENNA.

ROOF SYSTEM TYPES:

ROOF TYPE A: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. 1/2" COVER BOARD.
6. EPDM MEMBRANE - FULLY ADHERED.
7. EPDM SHEET FLASHING.
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

ROOF TYPE B: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. EPDM MEMBRANE - FULLY ADHERED.
6. EPDM SHEET FLASHING.
7. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

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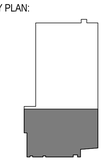
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



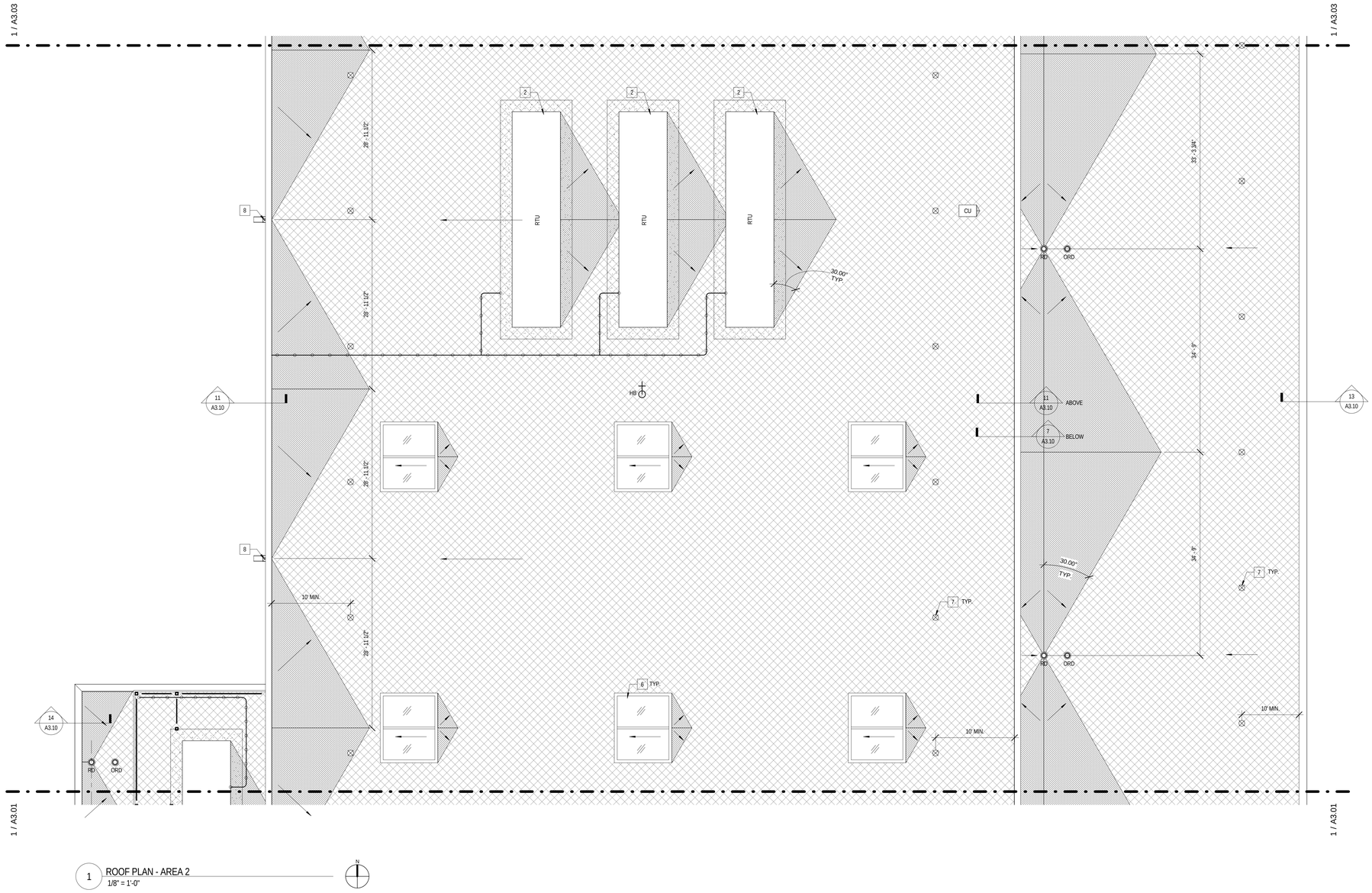
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 1

SHEET NUMBER:
A3.01

8/28/2015 4:13:45 PM



1 ROOF PLAN - AREA 2
1/8" = 1'-0"

ROOF PLAN LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOF AREA BOUNDARY LINE
- XX / X — ROOF AREA NUMBER / ROOF AREA TYPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- VTR — PIPE PENETRATION
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- 24" x 24" x 2" RUBBER ROOF PAVER
- EF — EXHAUST FAN
- HB — HOSE BIB IN WALL
- HB — HOSE BIB PENETRATION THRU ROOF
- SPLASH PAD
- FLEXIBLE WALKWAY
- SLOPE DIRECTION
- AREA OF SLOPING STRUCTURAL ROOF DECK. INSULATION WITH A SURFACE SLOPE OF 1/4" PER 1'-0"
- TAPERED INSULATION, SADDLE WITH A SURFACE SLOPE OF 1/4" PER 1'-0" (1/2" PER FOOT PANEL SLOPE)
- CU — CONDENSOR UNIT
- GAS LINE

ROOF PLAN GENERAL NOTES:

1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.
2. ALIGN COPING JOINTS WITH JOINTS IN ZINC COMPOSITE PANELS AND FLATLOCK ZINC PANELS.
3. PROVIDE ALUMINUM COPING AT ROOF AREA 1. PROVIDE ZINC COPING AT ALL OTHER ROOF AREAS. ZINC COPING COLOR TO MATCH ZINC WALL COLOR.

ROOF PLAN REFERENCED NOTES: 1

1. ROOF HATCH.
2. ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
3. SHIPS LADDER - SEE A8.03.
4. GUTTER AT HIGH ROOF DRAINS TO DOWNSPOUTS MOUNTED TO SIDE OF STAIRWELL
5. CONDUCTOR BOX AND DOWNSPOUT.
6. SKYLIGHT.
7. ROOF DAVIT - SEE 2/A3.10 FOR FLASHING DETAIL. SEE STRUCTURAL DRAWINGS FOR CONNECTION DETAIL TO BEAMS AND TRUSSES.
8. SCUPPER AND DOWNSPOUT - PROVIDE SPLASHPAD WHERE DOWNSPOUT TERMINATES ON ROOF.
9. ROOF ANTENNA.

ROOF SYSTEM TYPES:

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1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. 1/2" COVER BOARD.
6. EPDM MEMBRANE - FULLY ADHERED.
7. EPDM SHEET FLASHING.
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

ROOF TYPE B: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. EPDM MEMBRANE - FULLY ADHERED.
6. EPDM SHEET FLASHING.
7. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

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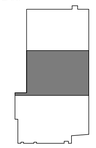
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 2

SHEET NUMBER:
A3.02

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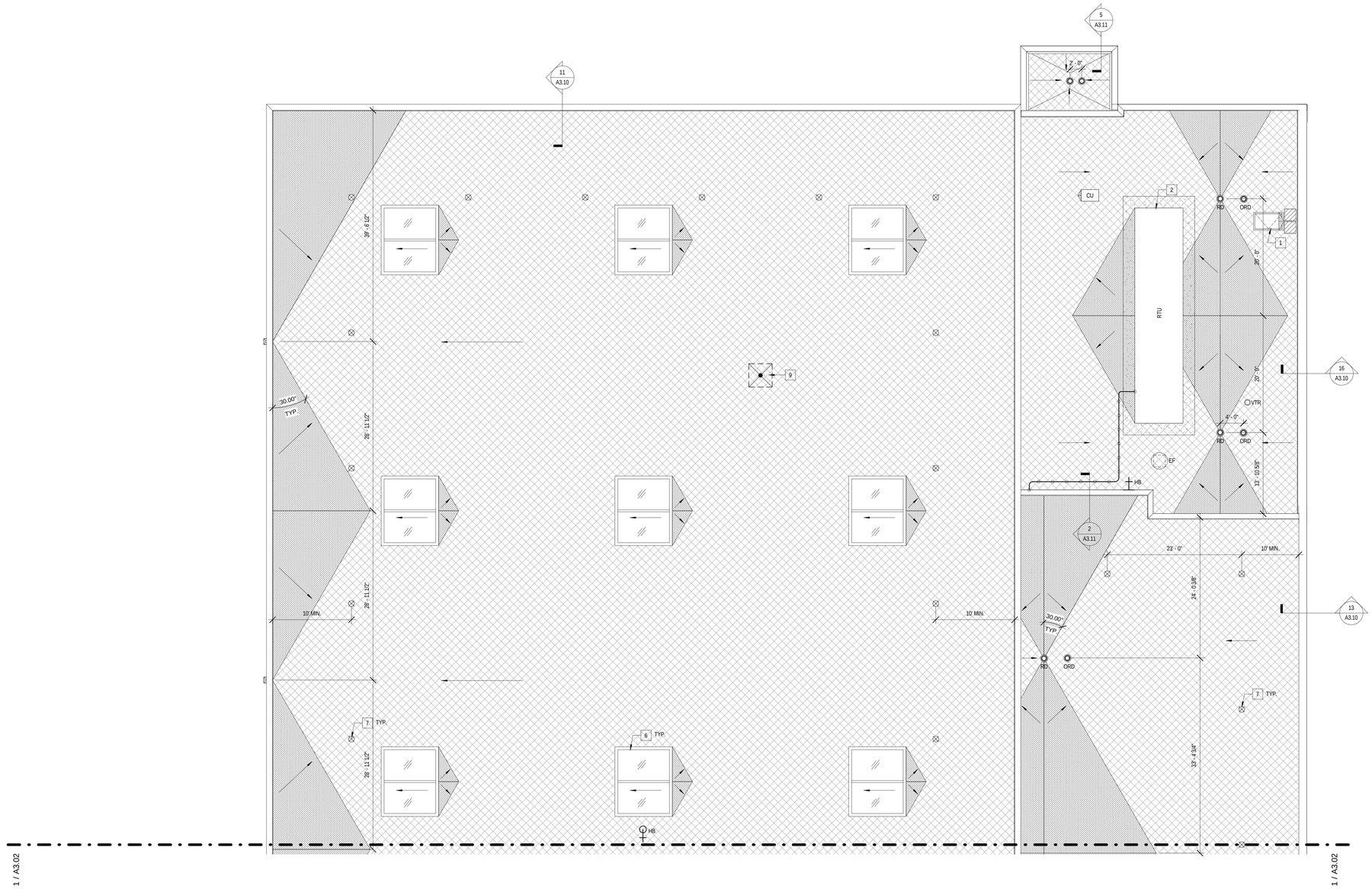

1 ROOF PLAN - AREA 3
1/8" = 1'-0"

ROOF PLAN LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- ROOF AREA BOUNDARY LINE
- XX / X — ROOF AREA NUMBER / ROOF AREA TYPE
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- VTR — PIPE PENETRATION
- ROOF DAVIT
- 24" x 24" x 2" RUBBER ROOF PAVER
- EF — EXHAUST FAN
- HB — HOSE BIB IN WALL
- HB — HOSE BIB PENETRATION THRU ROOF
- SPLASH PAD
- FLEXIBLE WALKWAY
- SLOPE DIRECTION
- AREA OF SLOPING STRUCTURAL ROOF DECK. INSULATION WITH A SURFACE SLOPE OF 1/4" PER 1'-0"
- TAPERED INSULATION SADDLE WITH A SURFACE SLOPE OF 1/4" PER 1'-0" (1/2" PER FOOT PANEL SLOPE)
- CU — CONDENSOR UNIT
- GAS LINE

ROOF PLAN GENERAL NOTES:

1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.
2. ALIGN COPING JOINTS WITH JOINTS IN ZINC COMPOSITE PANELS AND FLATLOCK ZINC PANELS.
3. PROVIDE ALUMINUM COPING AT ROOF AREA 1. PROVIDE ZINC COPING AT ALL OTHER ROOF AREAS. ZINC COPING COLOR TO MATCH ZINC WALL COLOR.

ROOF PLAN REFERENCED NOTES:

1

1. ROOF HATCH.
2. ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
3. SHIPS LADDER - SEE A8.03.
4. GUTTER AT HIGH ROOF DRAINS TO DOWNSPOUTS MOUNTED TO SIDE OF STAIRWELL
5. CONDUCTOR BOX AND DOWNSPOUT.
6. SKYLIGHT.
7. ROOF DAVIT - SEE 2/A3.10 FOR FLASHING DETAIL. SEE STRUCTURAL DRAWINGS FOR CONNECTION DETAIL TO BEAMS AND TRUSSES.
8. SCUPPER AND DOWNSPOUT - PROVIDE SPLASHPAD WHERE DOWNSPOUT TERMINATES ON ROOF.
9. ROOF ANTENNA.

ROOF SYSTEM TYPES:

ROOF TYPE A: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
3. TWO LAYERS OF 2 1/2" RIGID POLYISOCYANURATE INSULATION - MECHANICALLY FASTENED. STAGGER ALL JOINTS VERTICALLY AND HORIZONTALLY.
4. TAPERED RIGID INSULATION TO FORM 1/4" PER 12" SLOPE - FULLY ADHERED
5. 1/2" COVER BOARD.
6. EPDM MEMBRANE - FULLY ADHERED.
7. EPDM SHEET FLASHING.
8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

ROOF TYPE B: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
1. 1/4" SUBSTRATE BOARD.
2. 10 MIL. POLYETHYLENE VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
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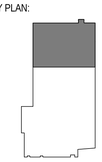
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:



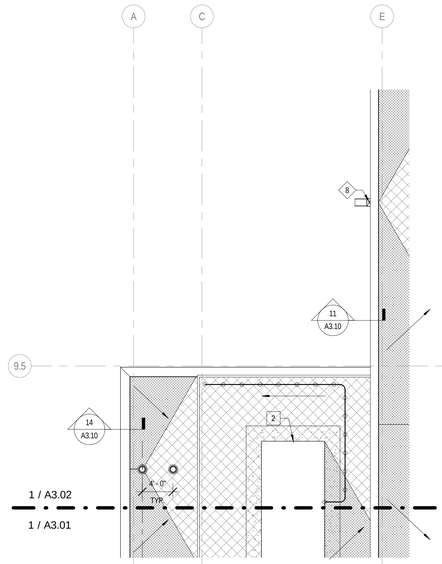
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

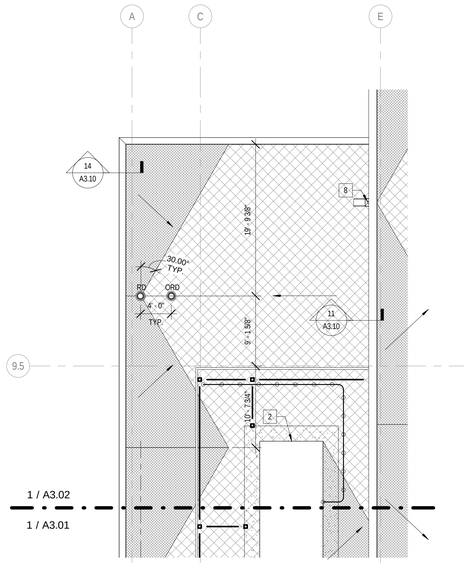
SHEET TITLE:
ROOF PLAN - AREA 3

SHEET NUMBER:
A3.03

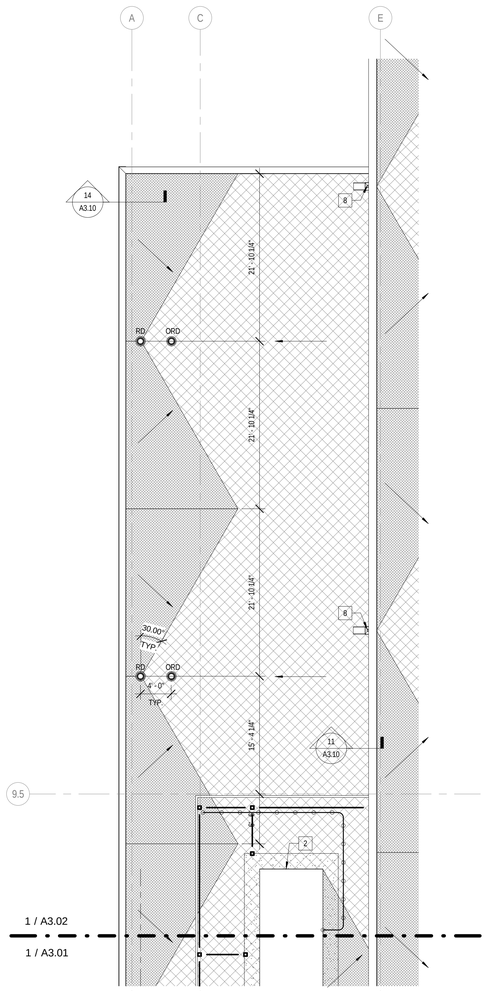
8/28/2015 4:13:55 PM



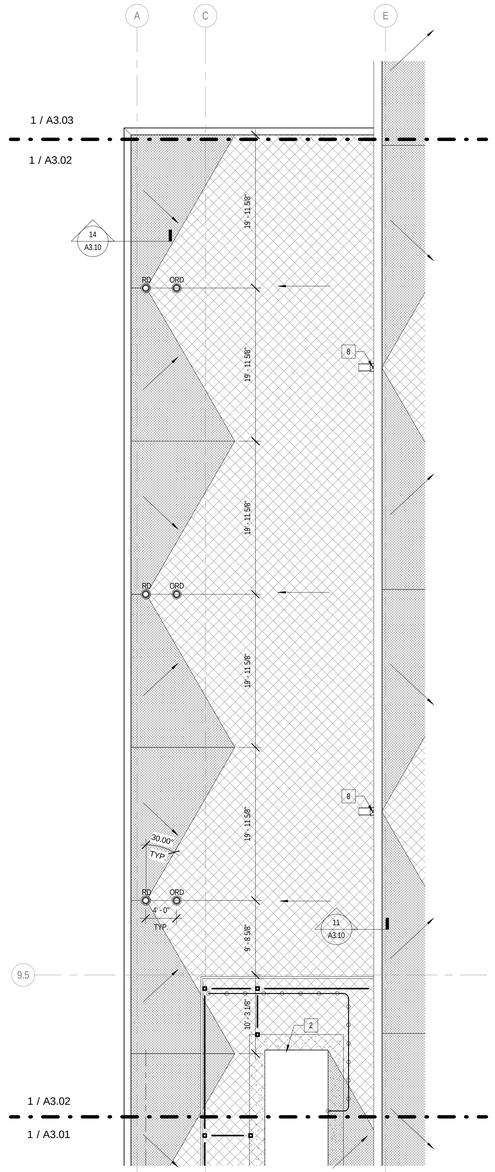
2 ROOF - BASE BID
1/8" = 1'-0"



1 ROOF - ALT BID 1
1/8" = 1'-0"



3 ROOF - ALT BID 2
1/8" = 1'-0"



4 ROOF - ALT BID 3
1/8" = 1'-0"

ROOF PLAN LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

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- FLEXIBLE WALKWAY
- SLOPE DIRECTION
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- CU — CONDENSOR UNIT
- GAS LINE

ROOF PLAN GENERAL NOTES:

1. SEE MEP DRAWINGS FOR PENETRATIONS AND EQUIPMENT CURB LOCATIONS.
2. ALIGN COPING JOINTS WITH JOINTS IN ZINC COMPOSITE PANELS AND FLATLOCK ZINC PANELS.
3. PROVIDE ALUMINUM COPING AT ROOF AREA 1. PROVIDE ZINC COPING AT ALL OTHER ROOF AREAS. ZINC COPING COLOR TO MATCH ZINC WALL COLOR.

ROOF PLAN REFERENCED NOTES:

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2. ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
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8. SCUPPER AND DOWNSPOUT - PROVIDE SPLASHPAD WHERE DOWNSPOUT TERMINATES ON ROOF.
9. ROOF ANTENNA.

ROOF SYSTEM TYPES:

ROOF TYPE A: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
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8. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

ROOF TYPE B: STRUCTURALLY SLOPED ROOF DECK OF 1/8" PER 12" SLOPE.
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

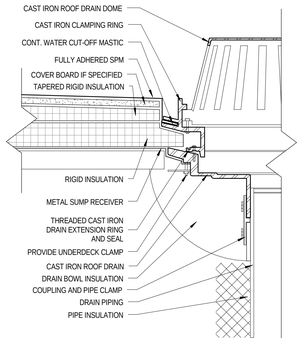
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

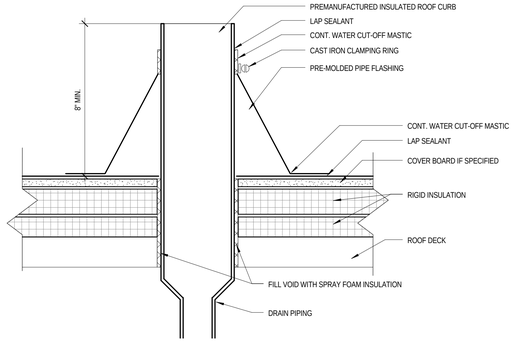
SHEET TITLE:
ROOF - ALTERNATE BID

SHEET NUMBER:
A3.04

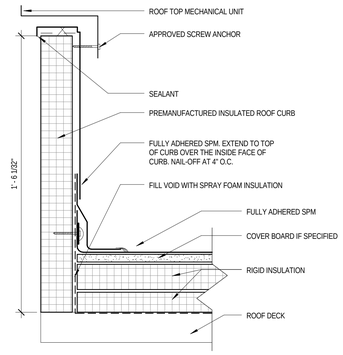
8/28/2015 4:14:02 PM



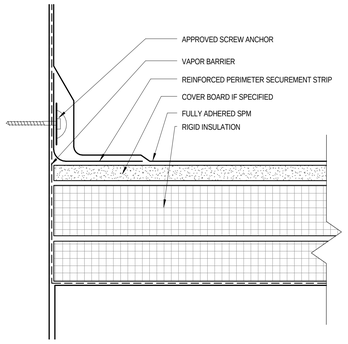
1 TYP. NEW ROOF DRAIN
3" = 1'-0"



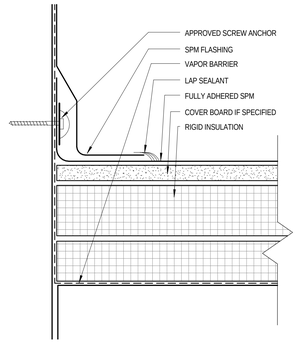
2 TYP. ROOF PIPE PENETRATION DETAIL
3" = 1'-0"



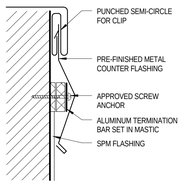
3 TYP. SECTION OF ROOF CURB PLAN
3" = 1'-0"



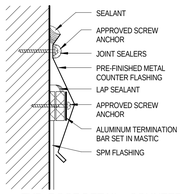
4 TYP. ROOF PERIMETER SECUREMENT DETAIL
6" = 1'-0"



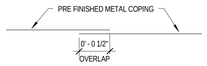
5 TYP. ROOF CURB BASE SECUREMENT DETAIL
6" = 1'-0"



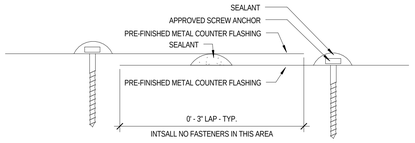
6 TYP. ROOF DETAIL - TWO-PIECE COUNTERFLASHING
6" = 1'-0"



7 TYP. ROOF DETAIL - COUNTERFLASHING/ SPM TERMINATION DETAIL
6" = 1'-0"

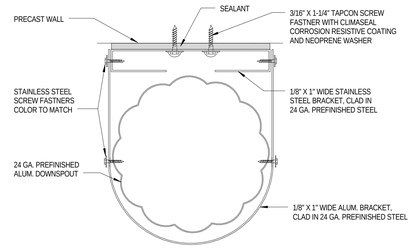


8 ROOF DETAIL - TYP. VERTICAL COPING JOINT
12" = 1'-0"

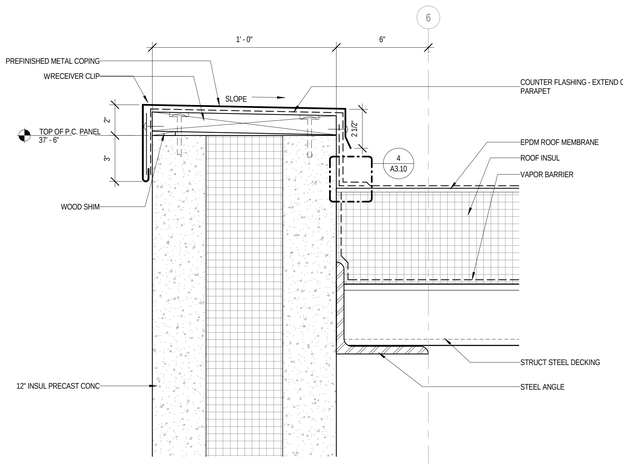


9 ROOF DETAIL - TYP. COUNTERFLASHING LAP JOINT
12" = 1'-0"

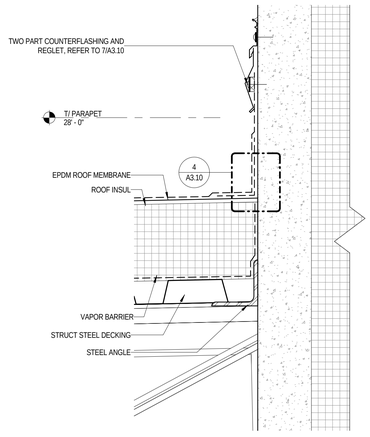
NOTE:
1. LOCATE HANGERS AT DOWNSPOUT ANGLE CHANGERS AND AT 4'-0" O.C.



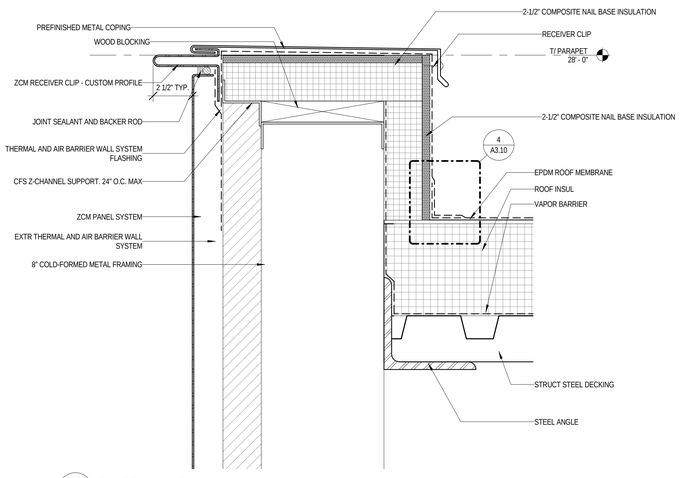
10 DOWNSPOUT BRACKET PLAN DETAIL
3" = 1'-0"



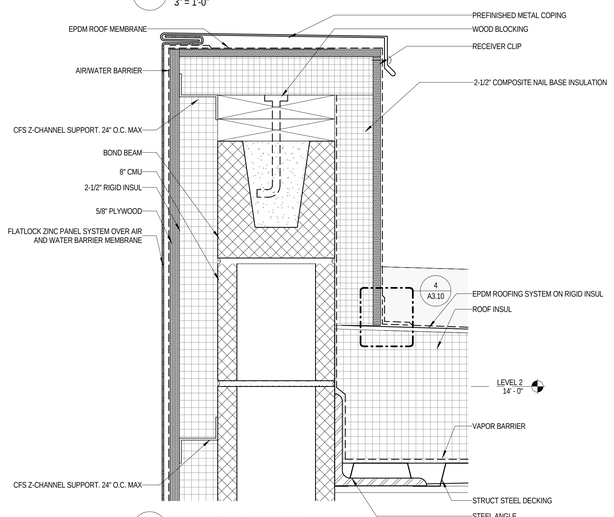
11 ROOF DETAIL - PRECAST PARAPET
3" = 1'-0"



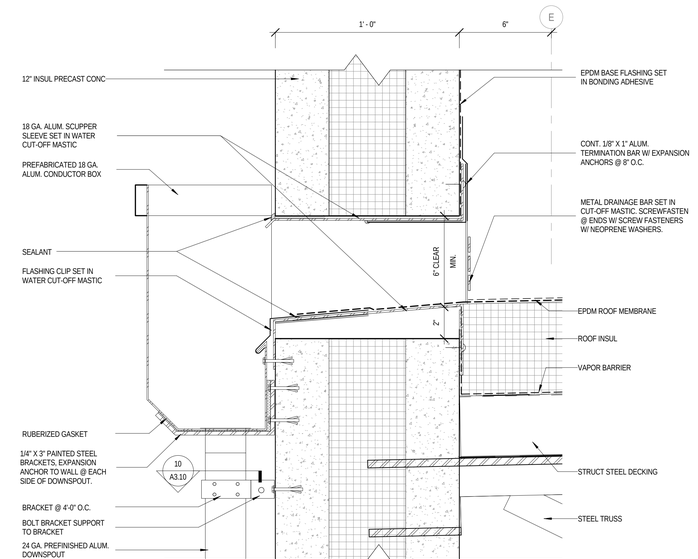
12 ROOF DETAIL - PRECAST AT LOW ROOF
3" = 1'-0"



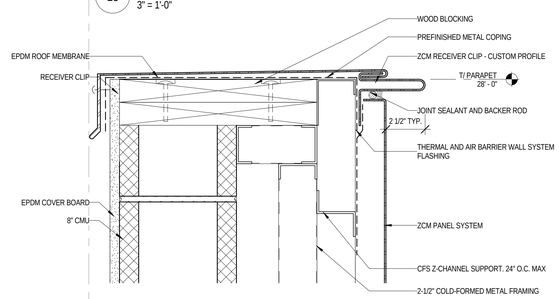
13 ROOF DETAIL - ZCM
3" = 1'-0"



14 ROOF DETAIL - ZINC/ CMU
3" = 1'-0"



15 ROOF DETAIL - SCUPPER
3" = 1'-0"



16 ROOF DETAIL - ZCM/ STUD
3" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

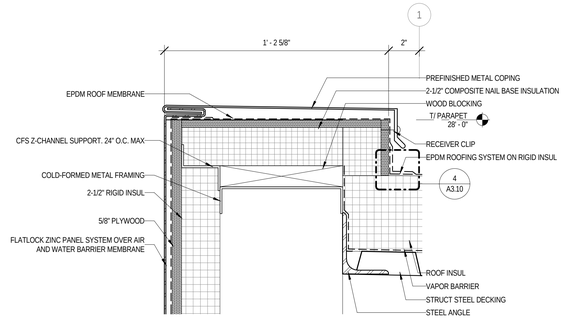
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

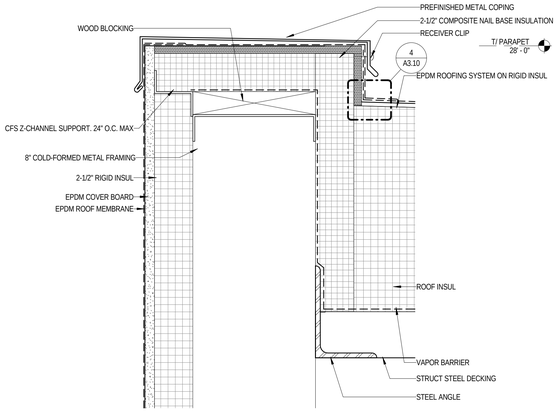
SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A3.10

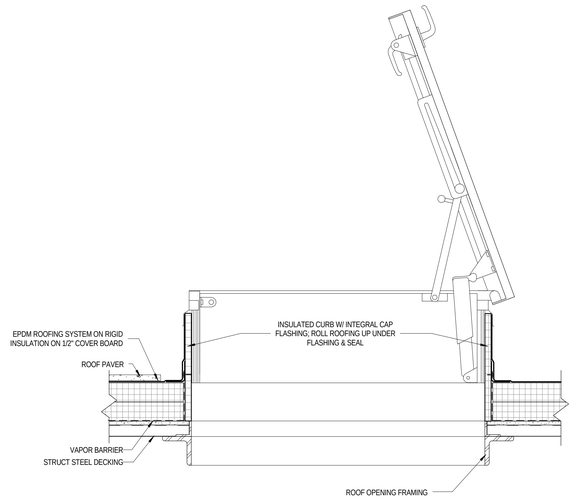
8/28/2015 4:14:08 PM



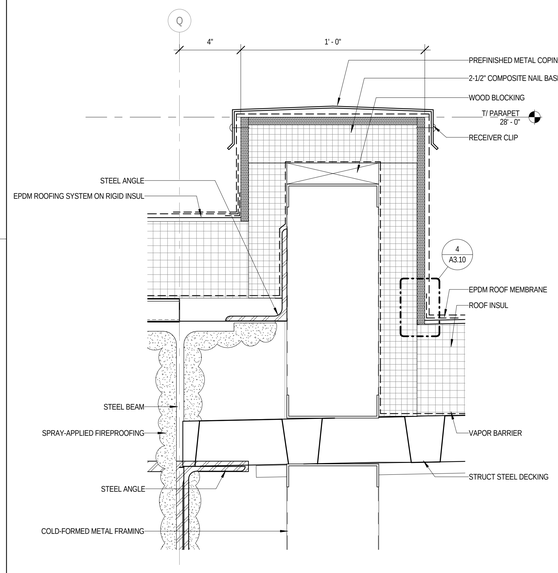
1 ROOF DETAIL - ZINC
3" = 1'-0"



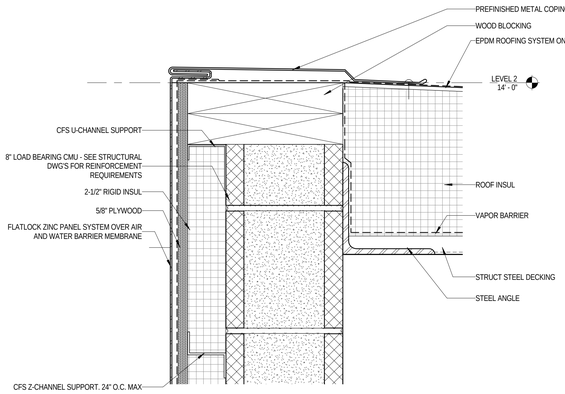
2 ROOF DETAIL - AREA WELL
3" = 1'-0"



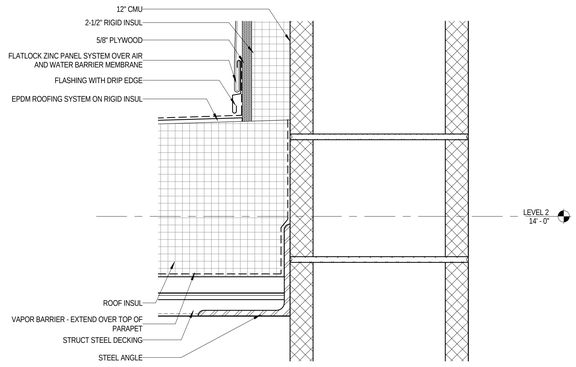
3 ROOF HATCH DETAIL
1 1/2" = 1'-0"



4 ROOF DETAIL - CURB
3" = 1'-0"



5 ROOF DETAIL - FLATLOCK/ CMU
3" = 1'-0"



6 ROOF DETAIL - ZINC LOW ROOF
3" = 1'-0"

GENERAL NOTES:

1. DETAILS ON A3.10 & A3.11 MAY NOT SHOW ALL COMPONENTS OF ROOF SYSTEM. SEE ROOF SYSTEM TYPES ON A/3.00 FOR DESCRIPTIONS.

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JOLIET JUNIOR COLLEGE
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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

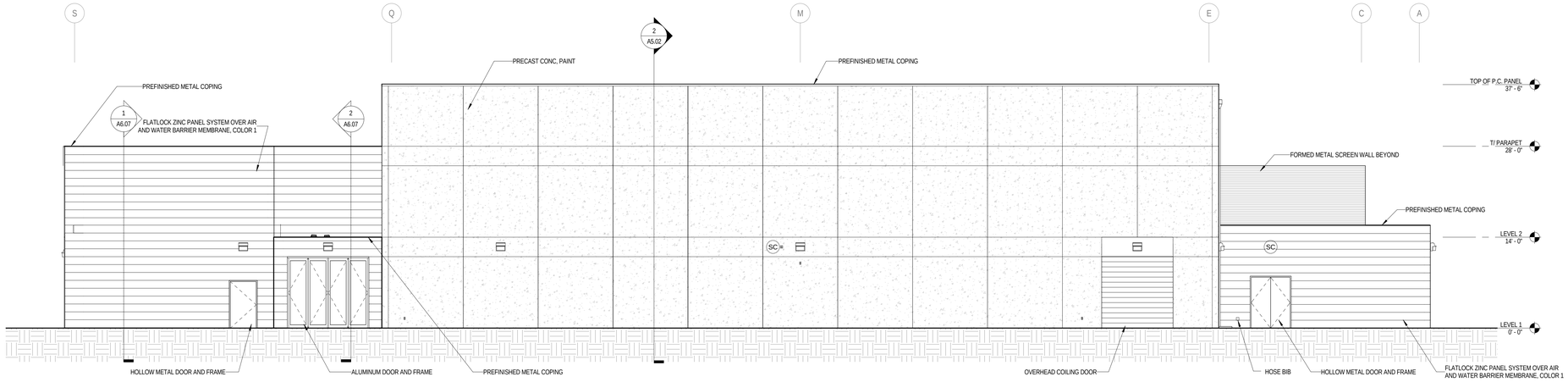
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

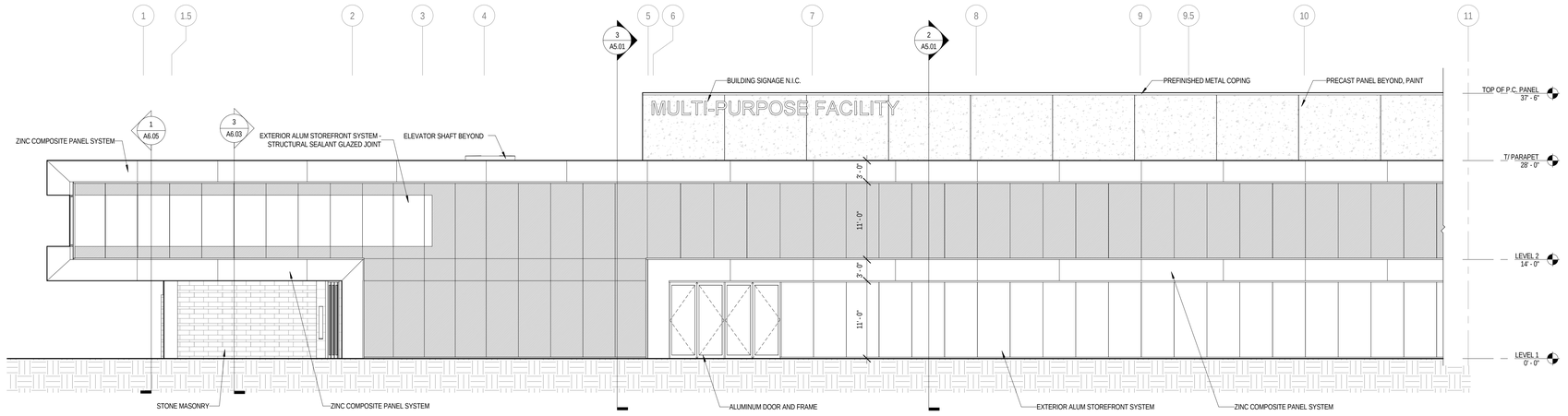
SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A3.11

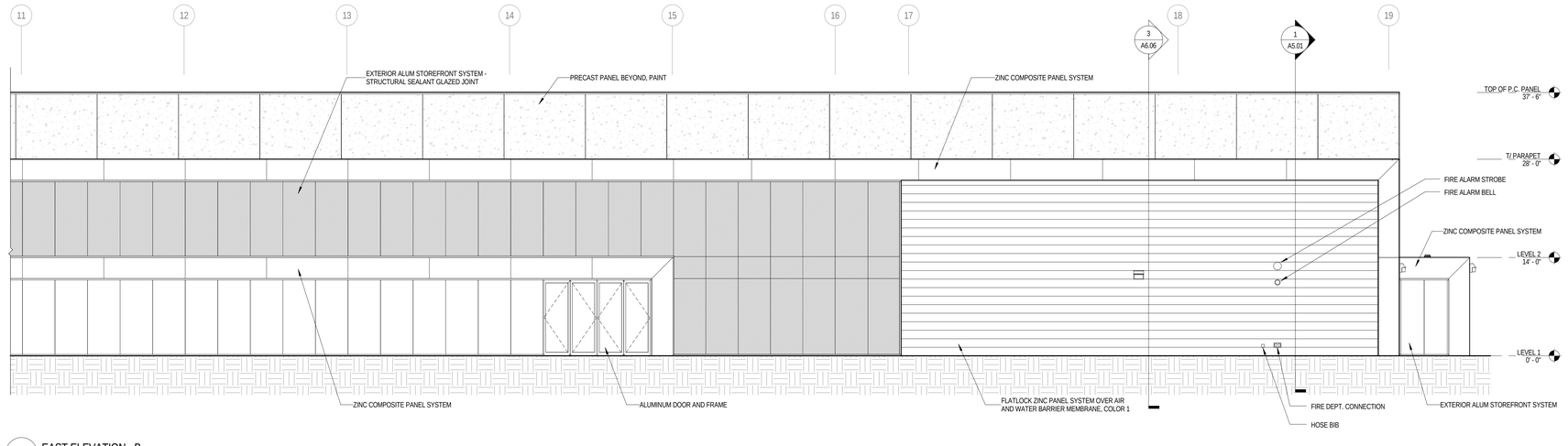
8/28/2015 4:14:12 PM



1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION - A
1/8" = 1'-0"



3 EAST ELEVATION - B
1/8" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

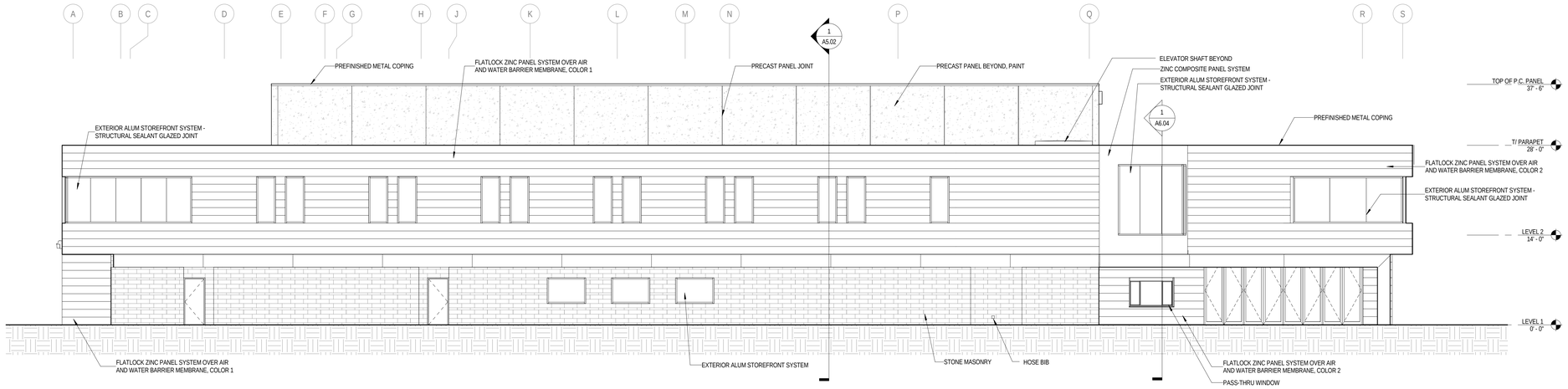
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

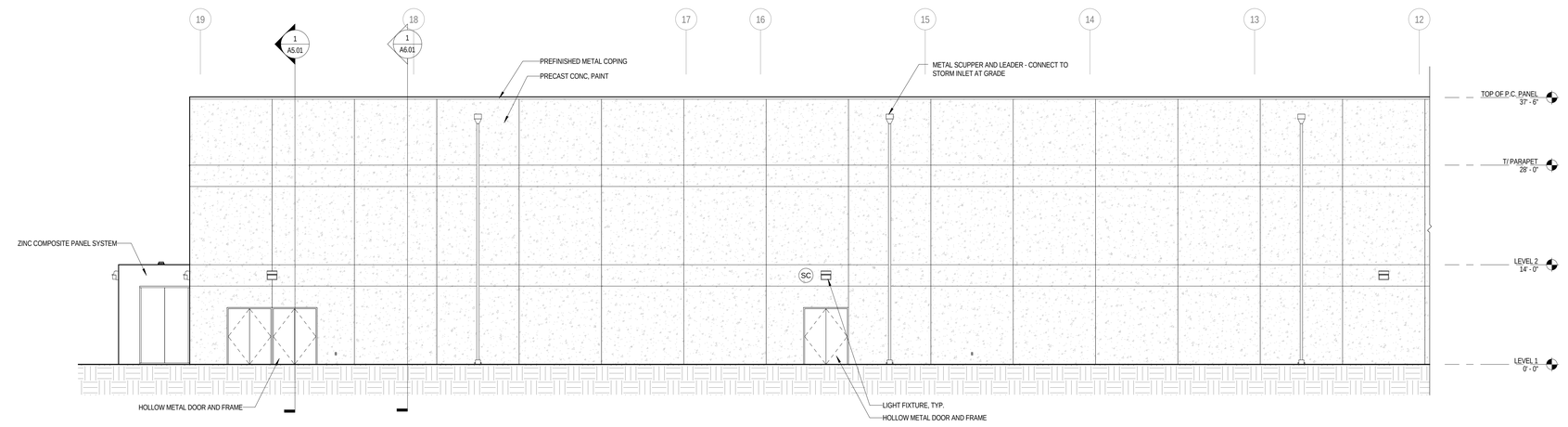
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.01

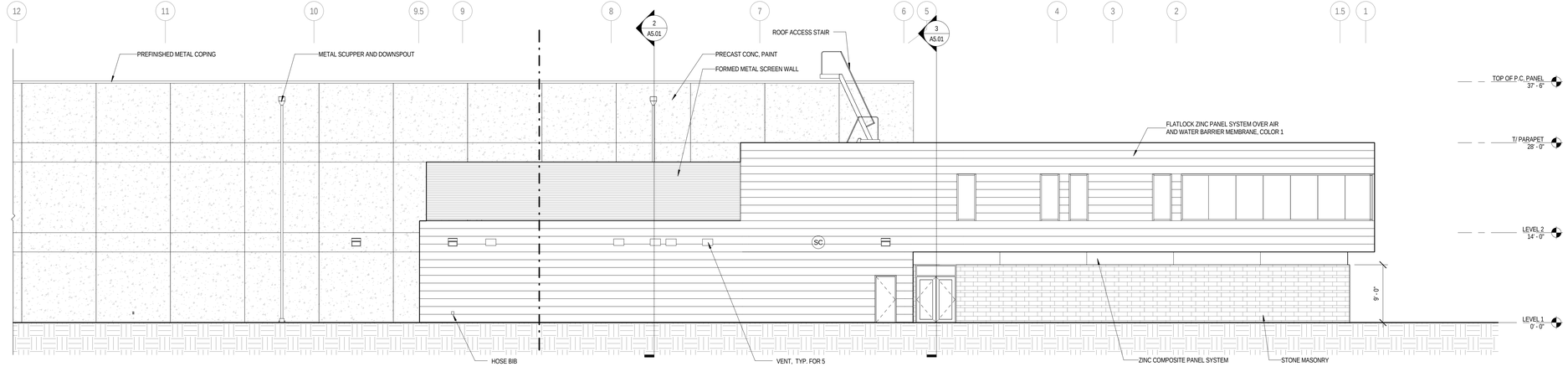
8/28/2015 4:14:18 PM



1 SOUTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION - A
1/8" = 1'-0"



3 WEST ELEVATION - B
1/8" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

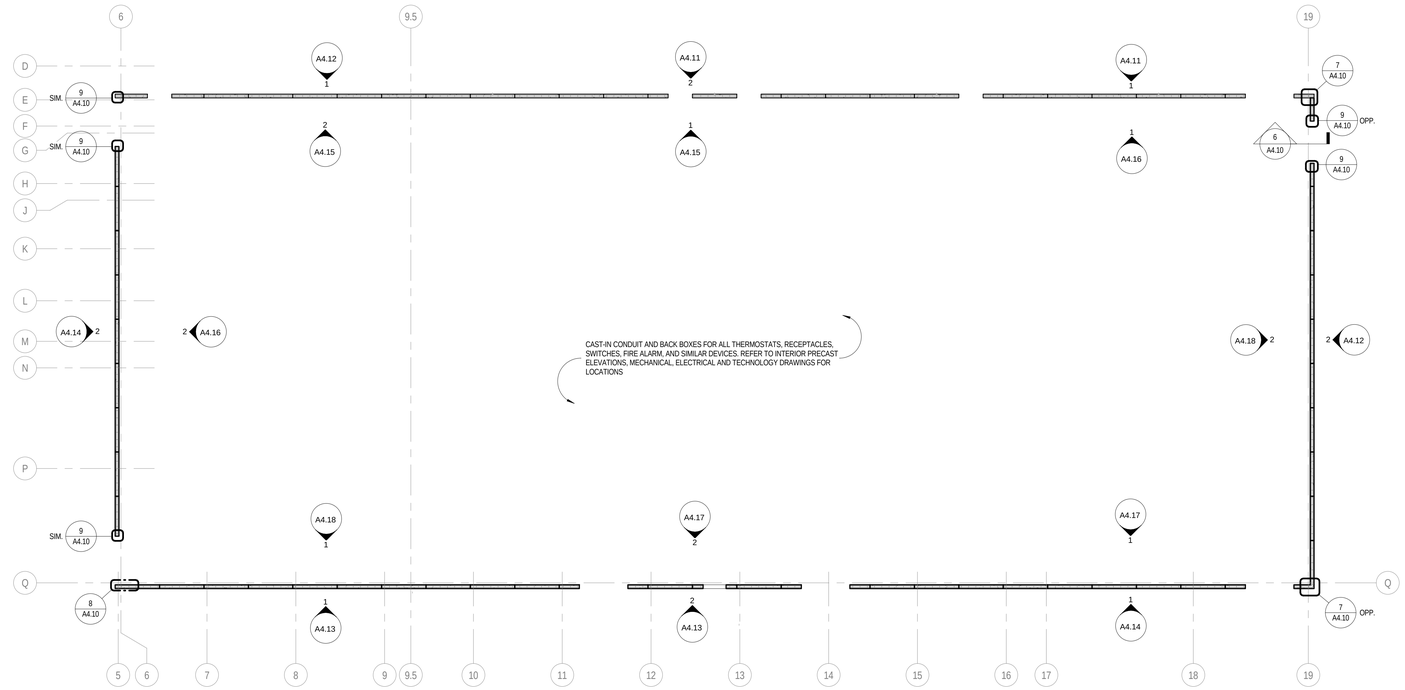
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.02

8/28/2015 4:14:26 PM



1 PRECAST PLAN
1/16" = 1'-0"

PRECAST GENERAL NOTES:

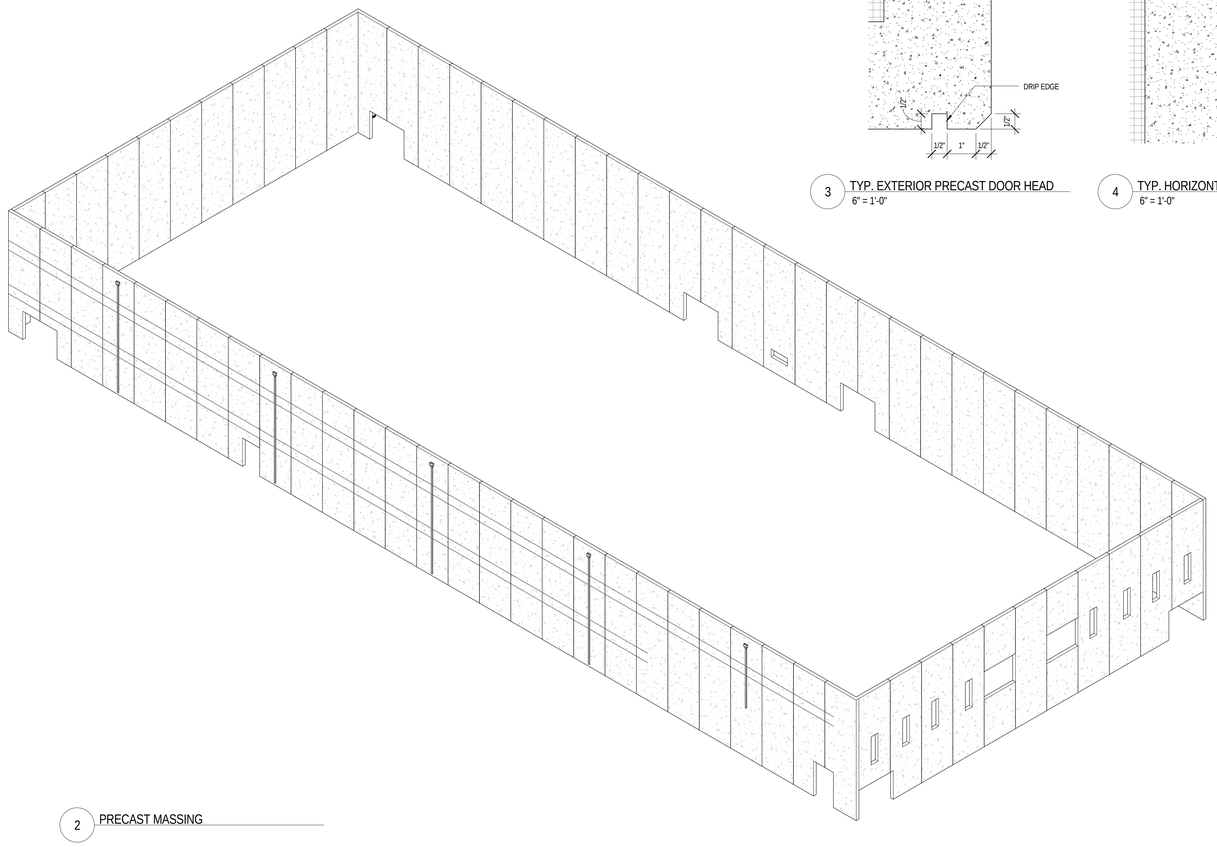
1. CONTRACTOR RESPONSIBLE FOR FINAL INSTALLATION OF DEVICE SHALL REVIEW SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, LOCATION, AND QUANTITIES, AND EMBEDDED CONDUIT SIZE, ROUTING, AND QUANTITIES.
2. ALL CONDUIT EMBED INTO PRECAST SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
3. REFER TO SHEET A4.10 FOR PRECAST PANEL PLAN AND DETAILS.
4. COORDINATE ROUGH OPENING REQUIREMENTS WITH ALL DOORS AND FRAMES AS SPECIFIED.
5. COORDINATE LOCATIONS OF BEAM EMBED PLATES AND JOIST BEARING POCKETS WITH STRUCTURAL DRAWINGS.

DEVICE TYPES

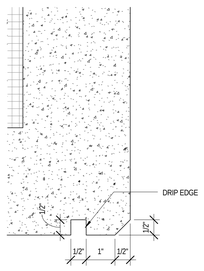
	DEVICE	J. BOX TYPE
A	DUPLEX POWER	SINGLE GANG
B	QUAD POWER	DOUBLE GANG
C	DATA (2)	SINGLE GANG
D	DATA (2)	DOUBLE GANG
E	THERMOSTAT	SINGLE GANG
F	CO2 SENSOR	SINGLE GANG
G	FIRE ALARM PULL HANDLE	SINGLE GANG
H	FIRE ALARM STROBE/HORN	SINGLE GANG
I	EMERGENCY PHONE	SINGLE GANG
J	LIGHTING CONTROL PANEL	DOUBLE GANG
K	SPORTS EQPM. CONTROL	DOUBLE GANG
L	SECURITY CAMERA	DOUBLE GANG (2)
M	A/V SYSTEMS CONTROL PANEL	CUSTOM BOX (2)
N	COILING DOOR CONTROLS	SINGLE GANG
O	PULL BOX	DOUBLE GANG
P	PULL BOX	SINGLE GANG
Q	A/V SYSTEMS WALL PLATE	SINGLE GANG
R	A/V SYSTEMS WALL PLATE	DOUBLE GANG
S	EXIT SIGN	DOUBLE GANG
T	A/V CAMERA	SINGLE GANG
U	LIGHT FIXTURE	DOUBLE GANG
V	PHOTOCELL	SINGLE GANG
W	LIGHT SWITCH	SINGLE GANG

PRECAST REFERENCED NOTES: (1)

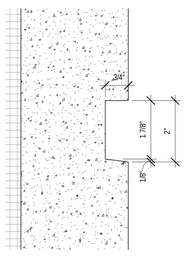
1. ROUTE CONDUIT TO FIRST FLOOR PLENUM; EXIT PANEL ON SAME FACE AS DEVICE.
2. ROUTE CONDUIT TO FRIST FLOOR PLENUM; EXIT PANEL ON OPPOSITE FACE OF DEVICE.
3. ROUTE CONDUIT TO SECOND FLOOR PLENUM; EXIT PANEL ON SAME FACE AS DEVICE.
4. ROUTE CONDUIT TO SECOND FLOOR PLENUM; EXIT PANEL ON OPPOSITE FACE OF DEVICE.
5. ROUTE CONDUIT TO ZONE OF FIELD-HOUSE ROOF STRUCTURE: EXIT PANEL ON SAME FACE AS DEVICE AT 6 INCHES BELOW JOIST BEARING POCKET.
6. ROUTE CONDUIT TO ZONE OF FIELD-HOUSE ROOF STRUCTURE: EXIT PANEL ON OPPOSITE FACE OF DEVICE AT 6 INCHES BELOW JOIST BEARING POCKET. (2)
7. PROVIDE 2 CONDUITS FROM DEVICE BOX TO ASSOCIATED PULL BOX.
8. PROVIDE 2 CONDUITS FROM DEVICE BOX TO PANEL EXIT.
9. HORIZONTAL PRECAST REVEAL. REFER TO DETAIL 04/A4.11.
10. PROVIDE OPENING FOR ROOF SCUPPER.
11. PROVIDE FOR ALTERNATE BID 2 & 3 ONLY.
12. PROVIDE FOR ALTERNATE BID 3 ONLY.
13. DASHED LINE INDICATES PROFILE OF INTERSECTING BUILDING IN FOREGROUND.
14. TERMINATE REVEAL AT CENTERLINE OF CMU BACK-UP OF INTERSECTING EXTERIOR WALL - LOCATION VARIES FOR EACH ALT. BID SCENARIO.
15. ELIMINATE DEVICE AND CONDUIT IF ALT. BID 2 OR 3 IS ACCEPTED.
16. ELIMINATE DEVICE AND CONDUIT IF ALT. BID 1 IS ACCEPTED.
17. DASHED LINE INDICATES PROFILE OF STAIR TREADS & LANDING
18. DUCT AND CONDUIT PENETRATION ZONE - COORD. SIZES, LOCATION, AND QUANTITY, WITH MEP DRAWINGS. (2)
19. EXTEND CONDUIT FROM PULL BOX DOWN INTO HEAD OF DOOR FRAME.
20. PROVIDE (4) SPARE CONDUITS AT 1" EA. ROUTED FROM FIELD HOUSE ROOF STRUCTURE ZONE TO SECOND FLOOR PLENUM (OPPOSITE SIDE OF PANEL).
21. PROVIDE SEPARATE CONDUITS FOR POWER & CONTROL WIRING.
22. ROUTE CONDUIT TO PULL BOX ABOVE.
23. PROVIDE CONDUIT FROM PULL BOX TO JAMB OF DOOR OPENING FOR CONNECTION TO DOOR MOTOR.
24. SURFACE MOUNT DEVICE AND CONDUIT. COORDINATE LOCATION IN FIELD WITH ARCHITECT. (2)



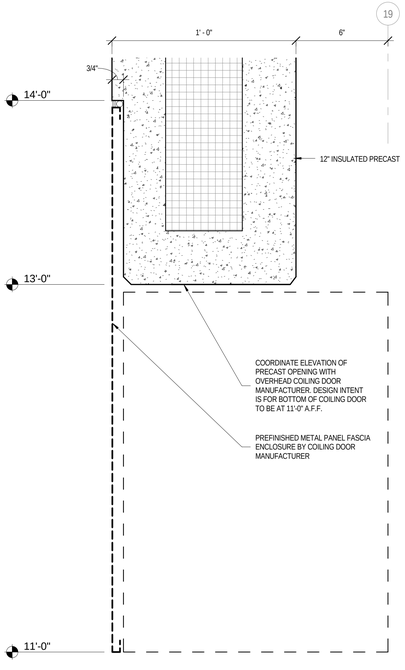
2 PRECAST MASSING



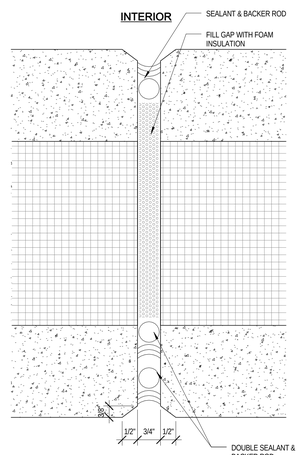
3 TYP. EXTERIOR PRECAST DOOR HEAD
6" = 1'-0"



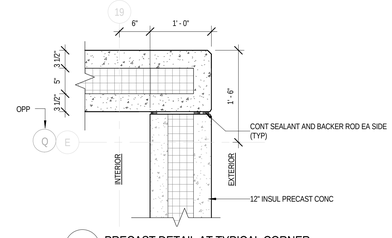
4 TYP. HORIZONTAL PRECAST REVEAL
6" = 1'-0"



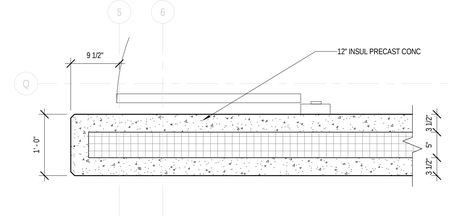
6 PRECAST HEADER DETAIL @ COILING DOOR
3" = 1'-0"



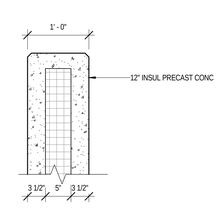
5 TYP. VERTICAL PRECAST PANEL JOINT
6" = 1'-0"



7 PRECAST DETAIL AT TYPICAL CORNER
1" = 1'-0"



8 PRECAST DETAIL AT VESTIBULE - D
1" = 1'-0"



9 PRECAST DETAIL AT OVERHEAD DOOR OPENING
1" = 1'-0"

ARCHITECT OF RECORD
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129 CAPISTA DR.
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

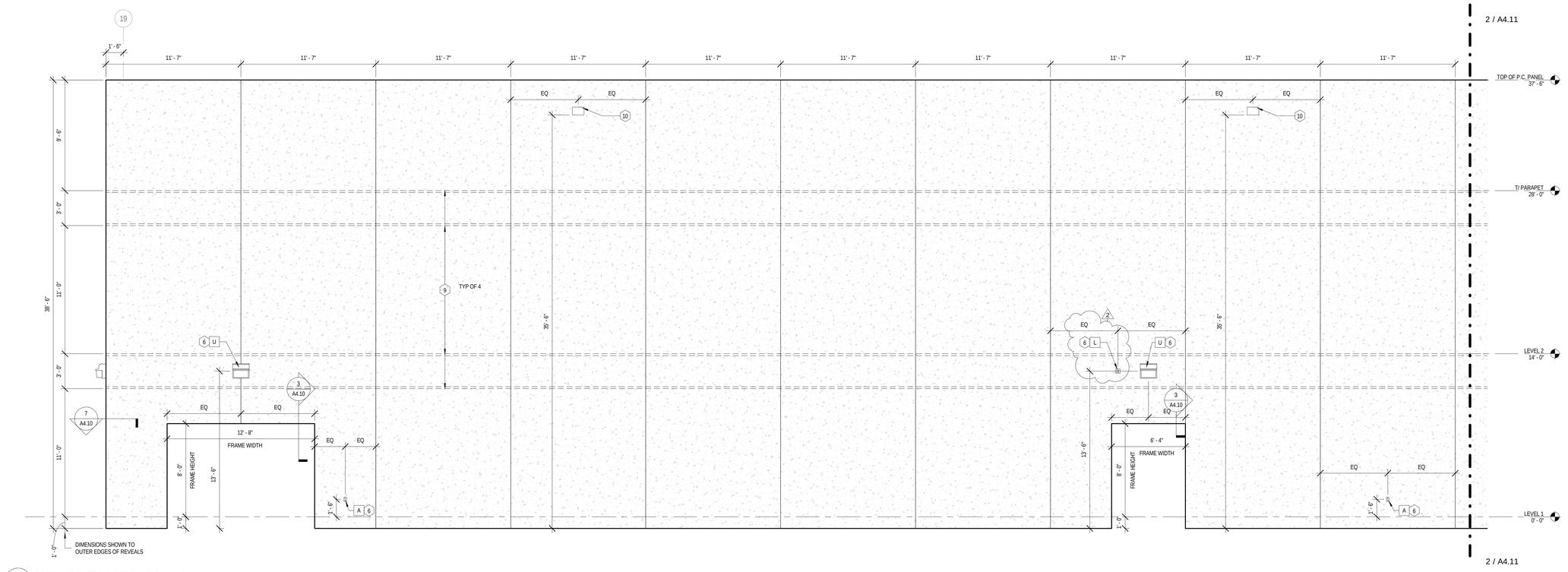
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

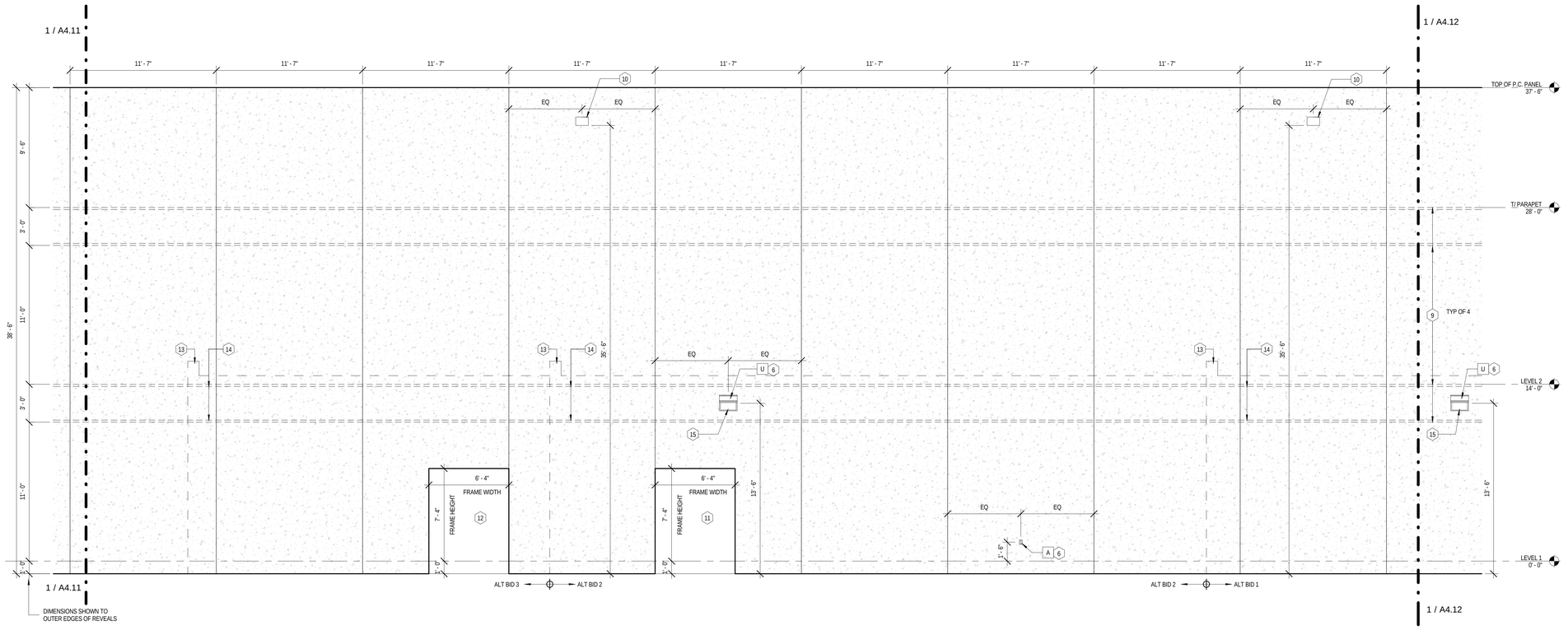
SHEET TITLE:
PRECAST PANEL PLAN, MASSING & DETAILS

SHEET NUMBER:
A4.10

8/28/2015 4:14:34 PM



1 PRECAST EXTERIOR ELEVATION - WEST A
1/4" = 1'-0"



2 PRECAST EXTERIOR ELEVATION - WEST B
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

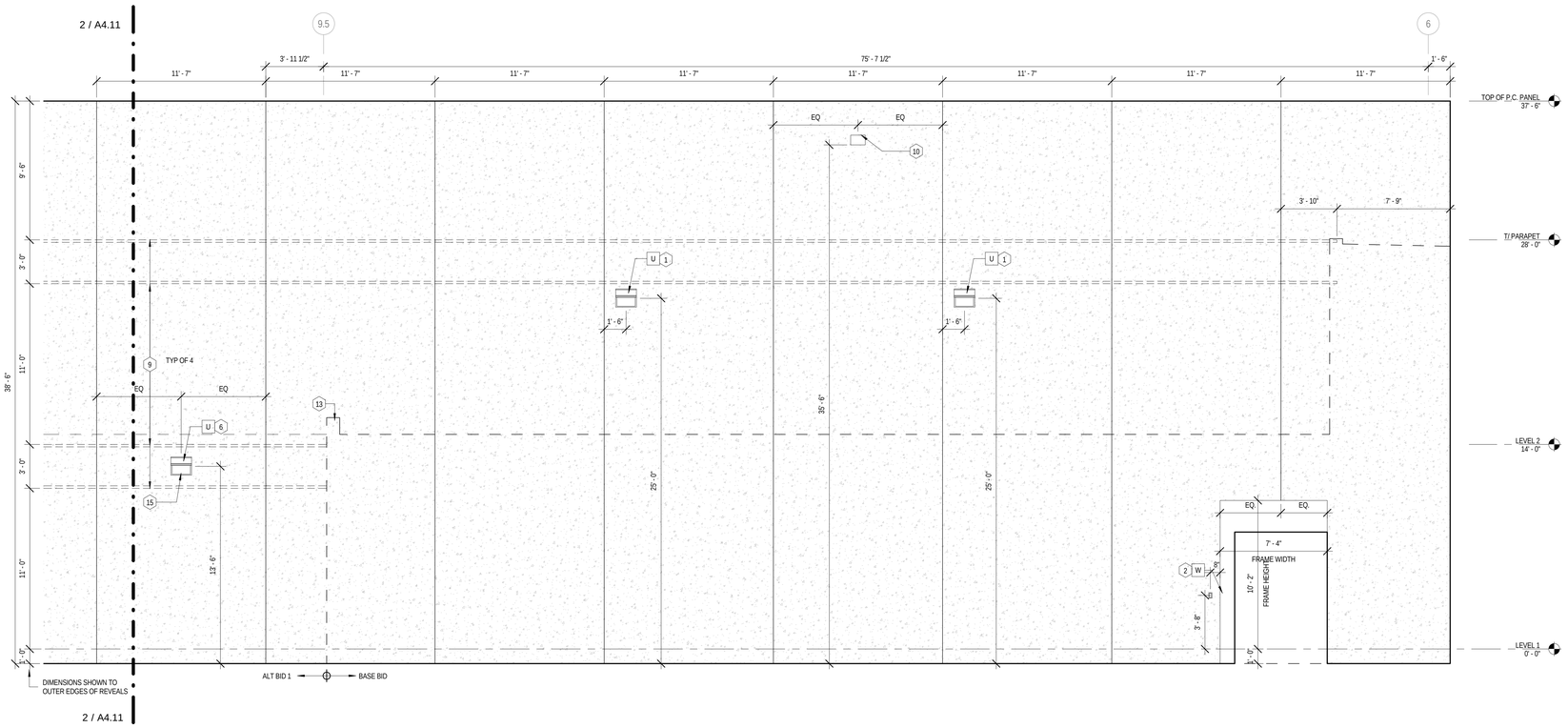
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

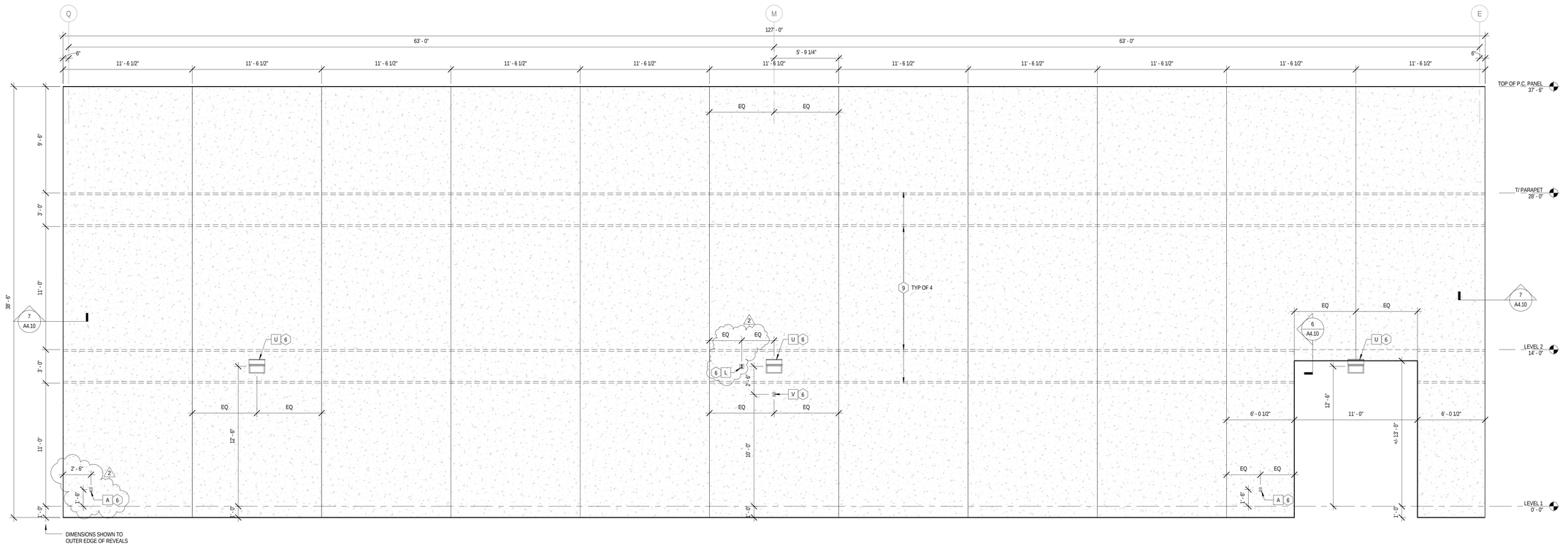
SHEET TITLE:
PRECAST PANEL EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.11

8/28/2015 4:14:51 PM



1 PRECAST EXTERIOR ELEVATION - WEST C
1/4" = 1'-0"



2 PRECAST EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"

ARCHITECT OF RECORD
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125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

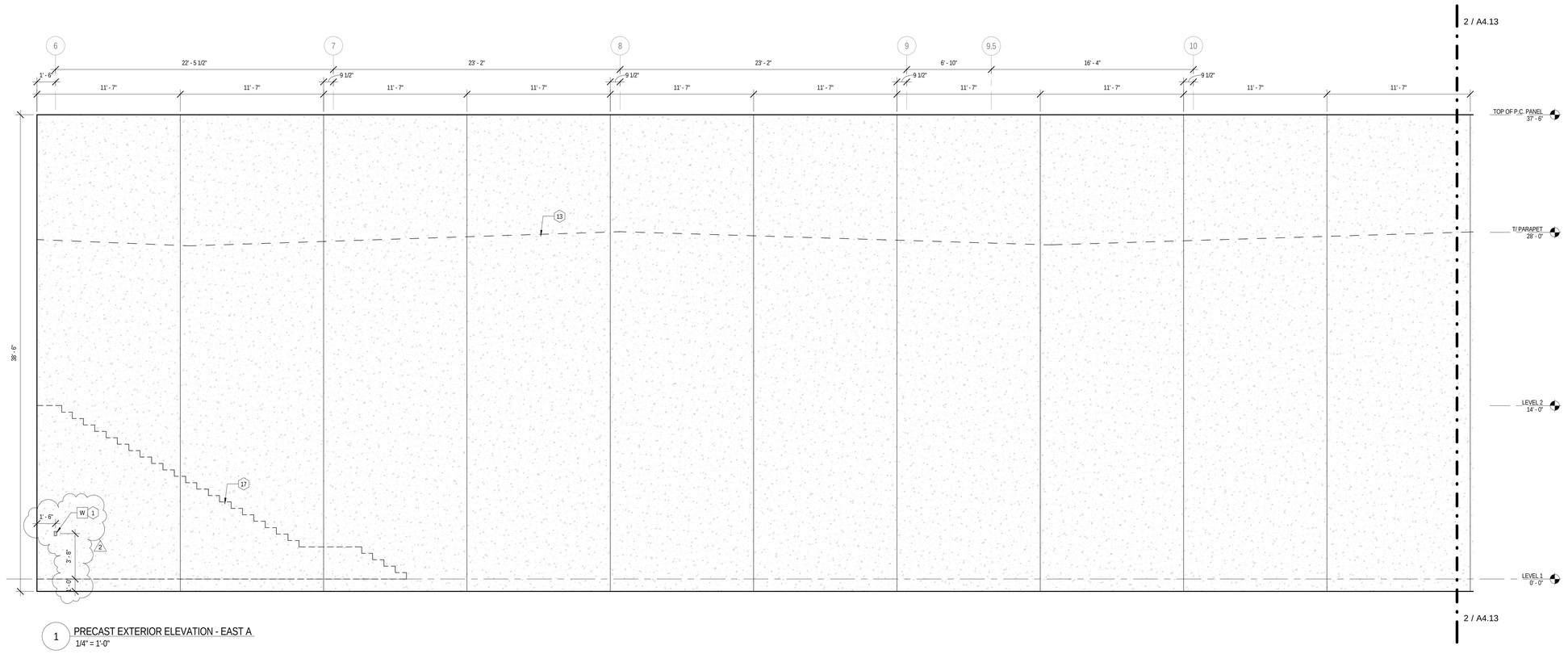
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

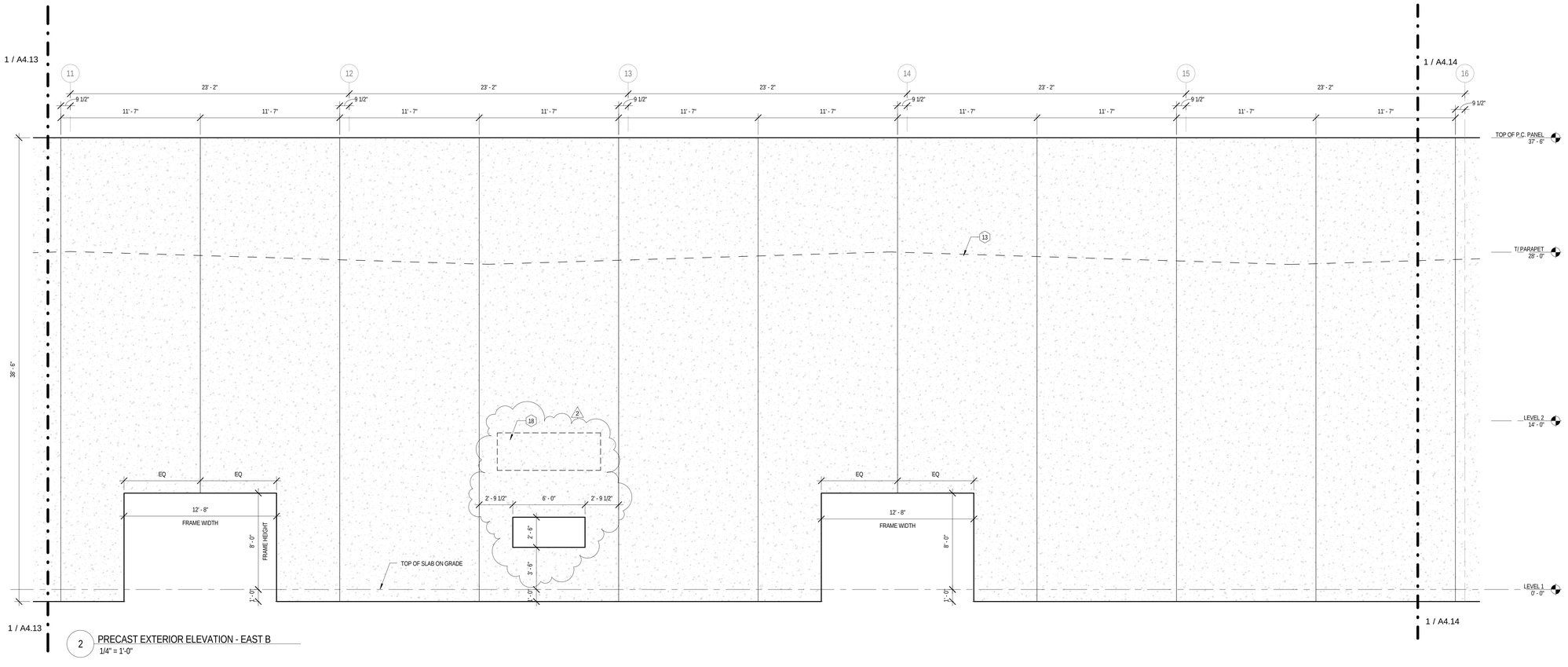
SHEET TITLE:
PRECAST PANEL EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.12

8/28/2015 4:15:04 PM



1 PRECAST EXTERIOR ELEVATION - EAST A
1/4" = 1'-0"



2 PRECAST EXTERIOR ELEVATION - EAST B
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

STRUCTURAL AND MEP ENGINEERING
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

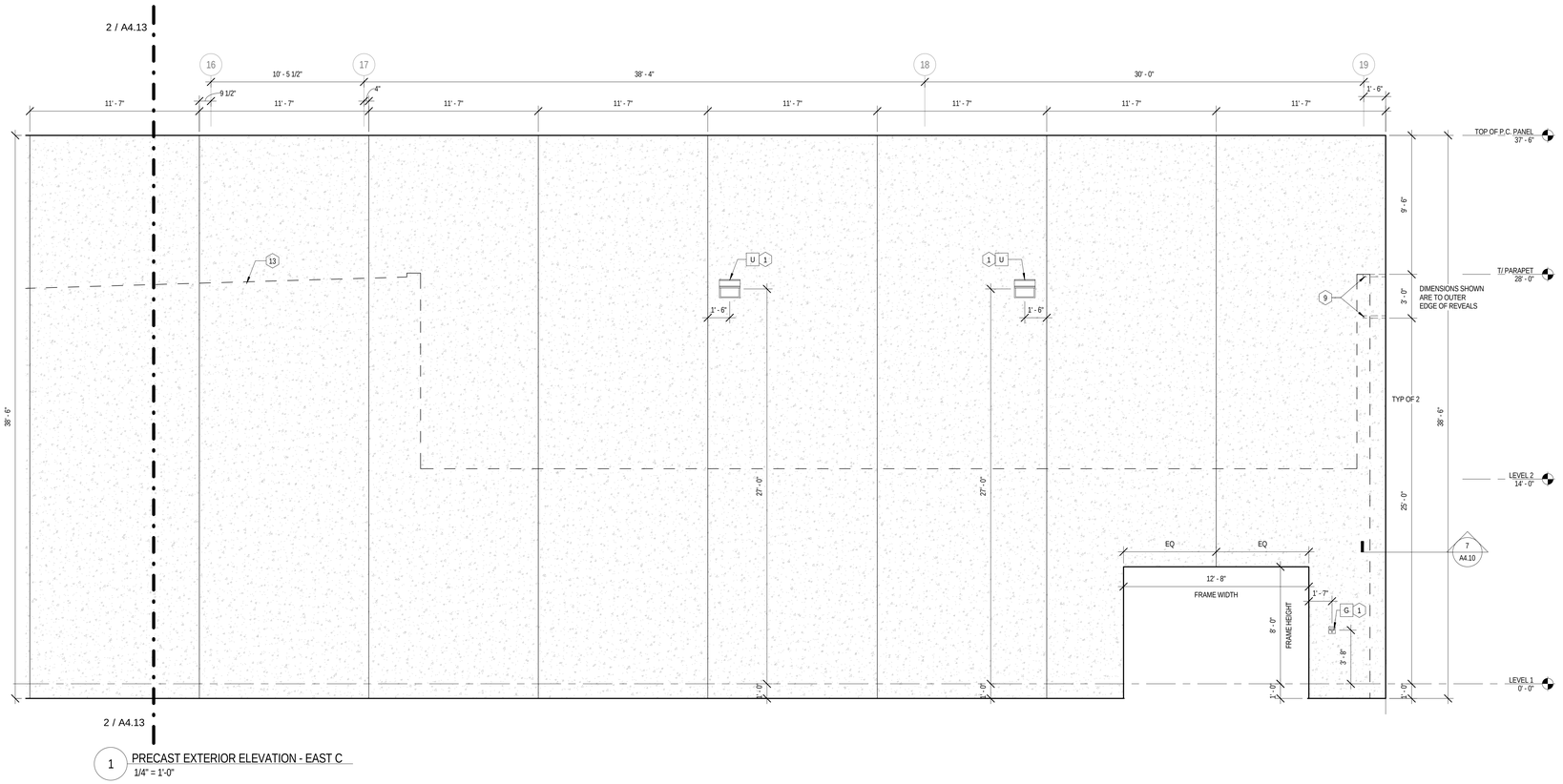
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

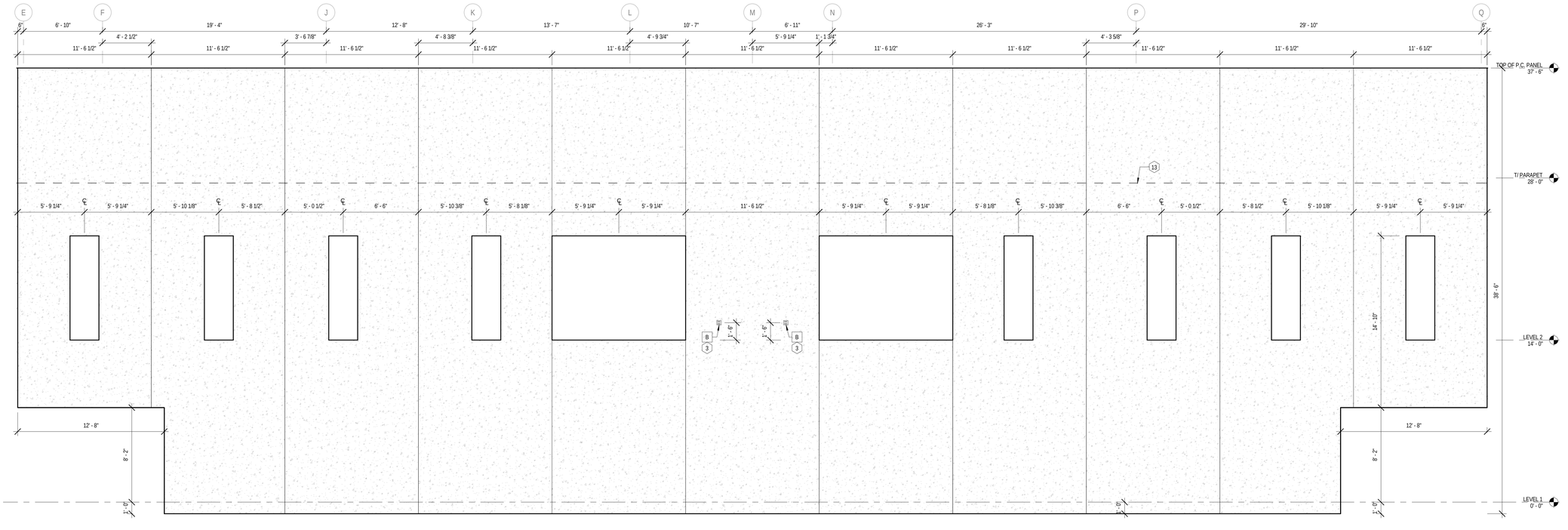
SHEET TITLE:
PRECAST PANEL EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.13

8/28/2015 4:15:12 PM



1 PRECAST EXTERIOR ELEVATION - EAST C
1/4" = 1'-0"



2 PRECAST EXTERIOR ELEVATION - SOUTH
1/4" = 1'-0"

ARCHITECT OF RECORD
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125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

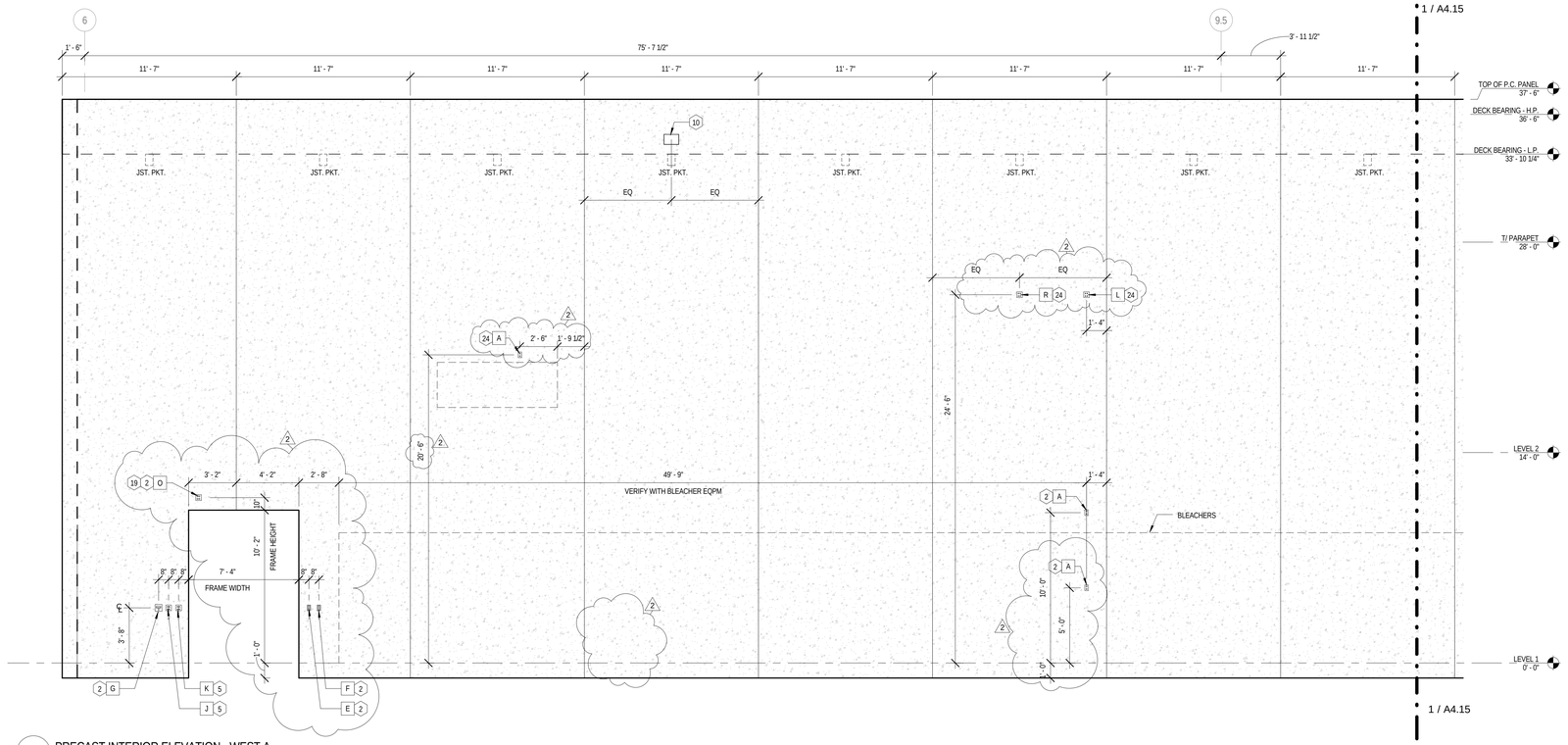
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

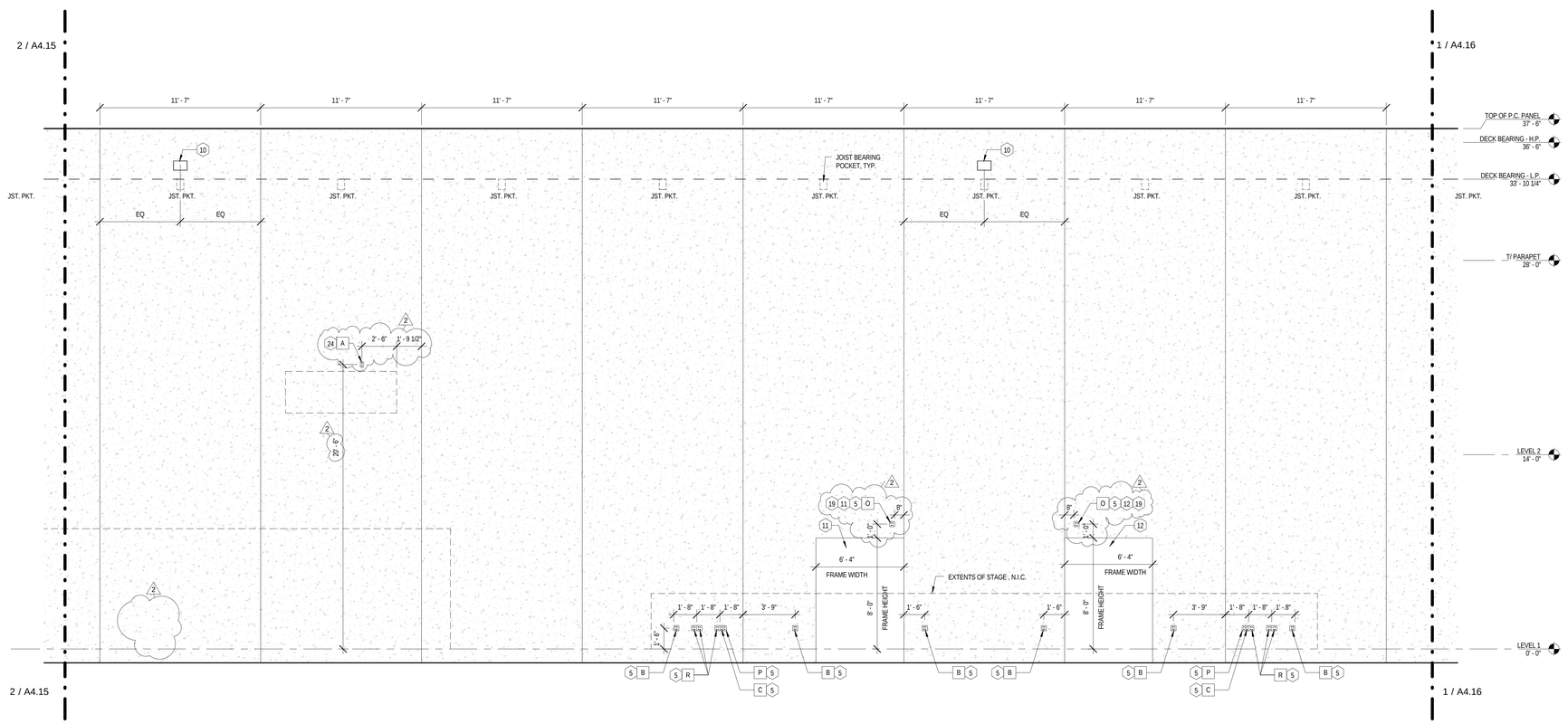
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PRECAST PANEL
EXTERIOR
ELEVATIONS

SHEET NUMBER:
A4.14

8/28/2015 4:15:18 PM





ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

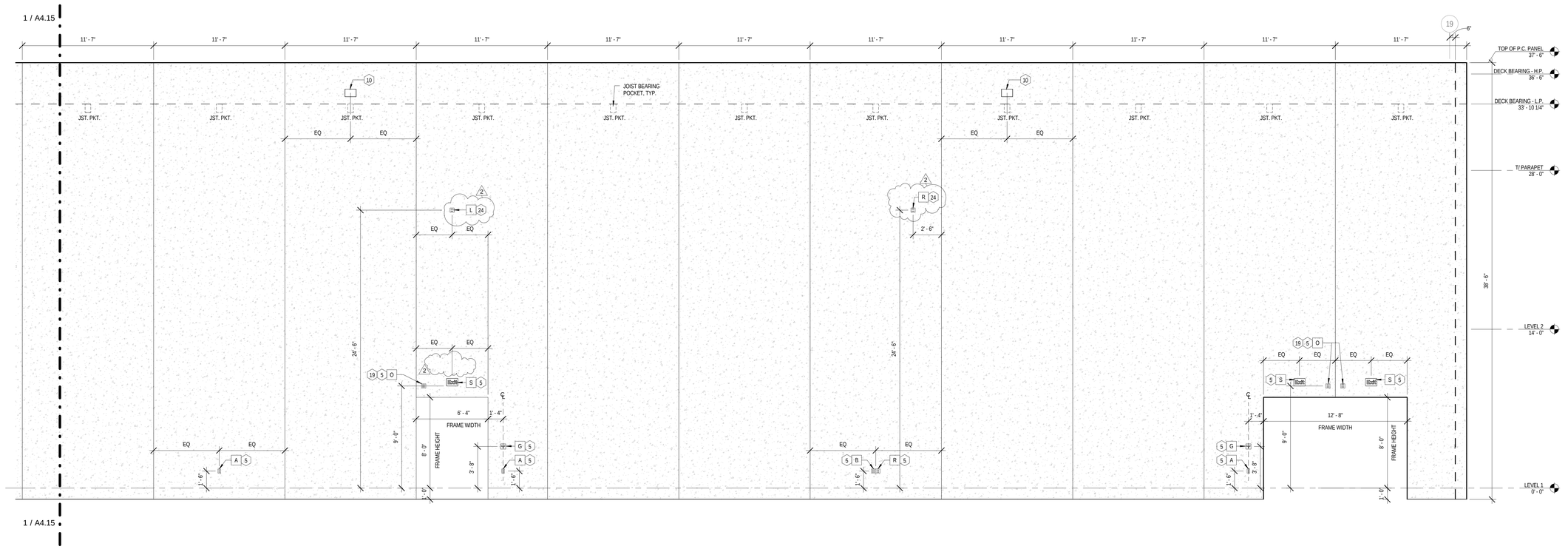
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

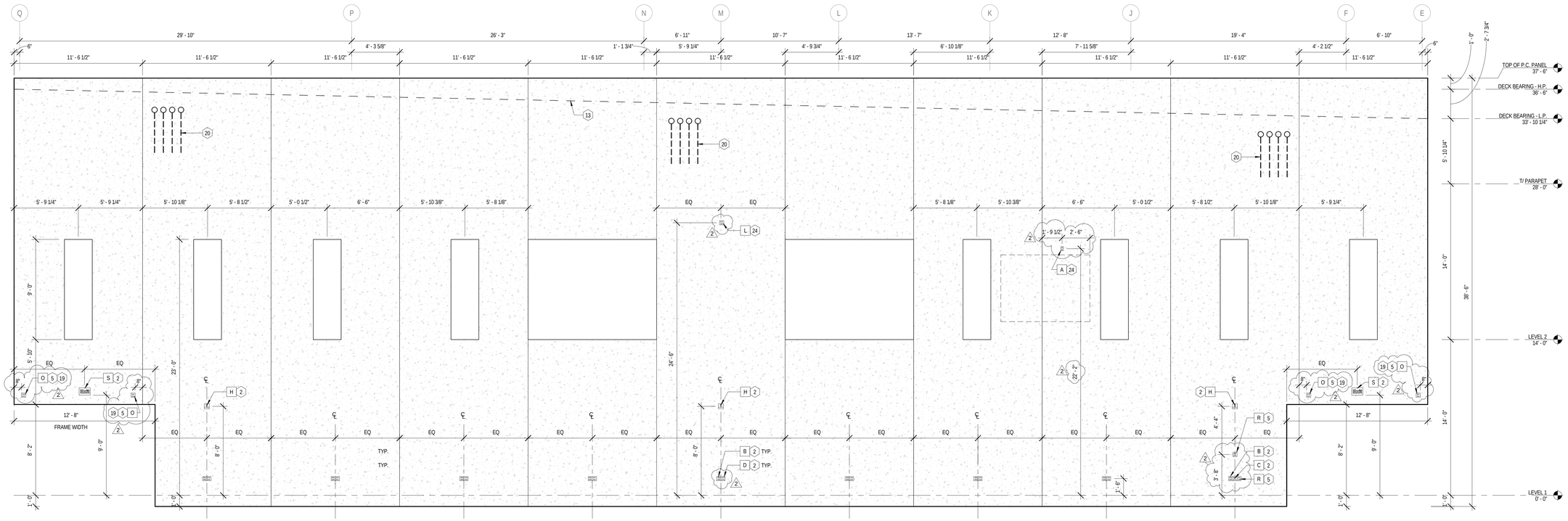
SHEET TITLE:
PRECAST PANEL INTERIOR ELEVATIONS

SHEET NUMBER:
A4.15

8/28/2015 4:15:25 PM



1 PRECAST INTERIOR ELEVATION - WEST C
1/4" = 1'-0"



2 PRECAST INTERIOR ELEVATION - SOUTH
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

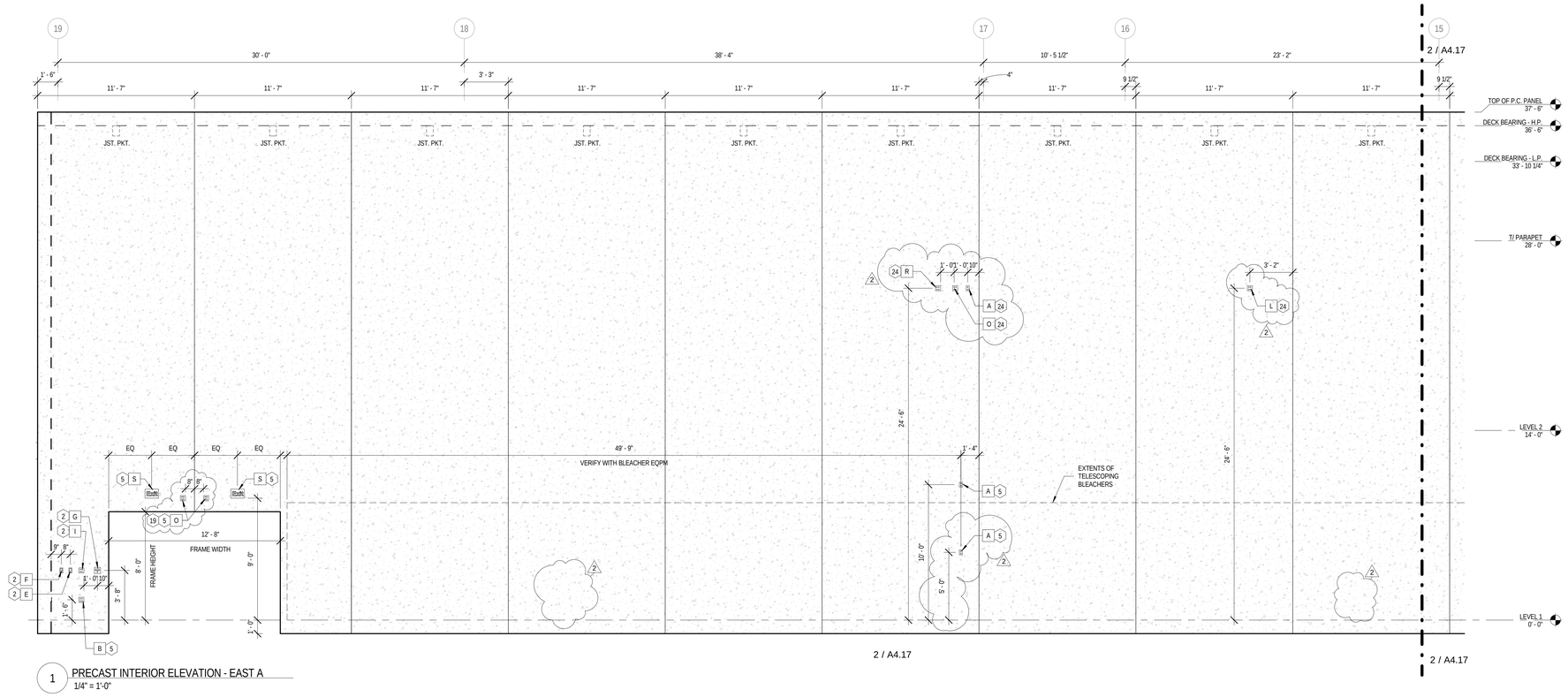
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

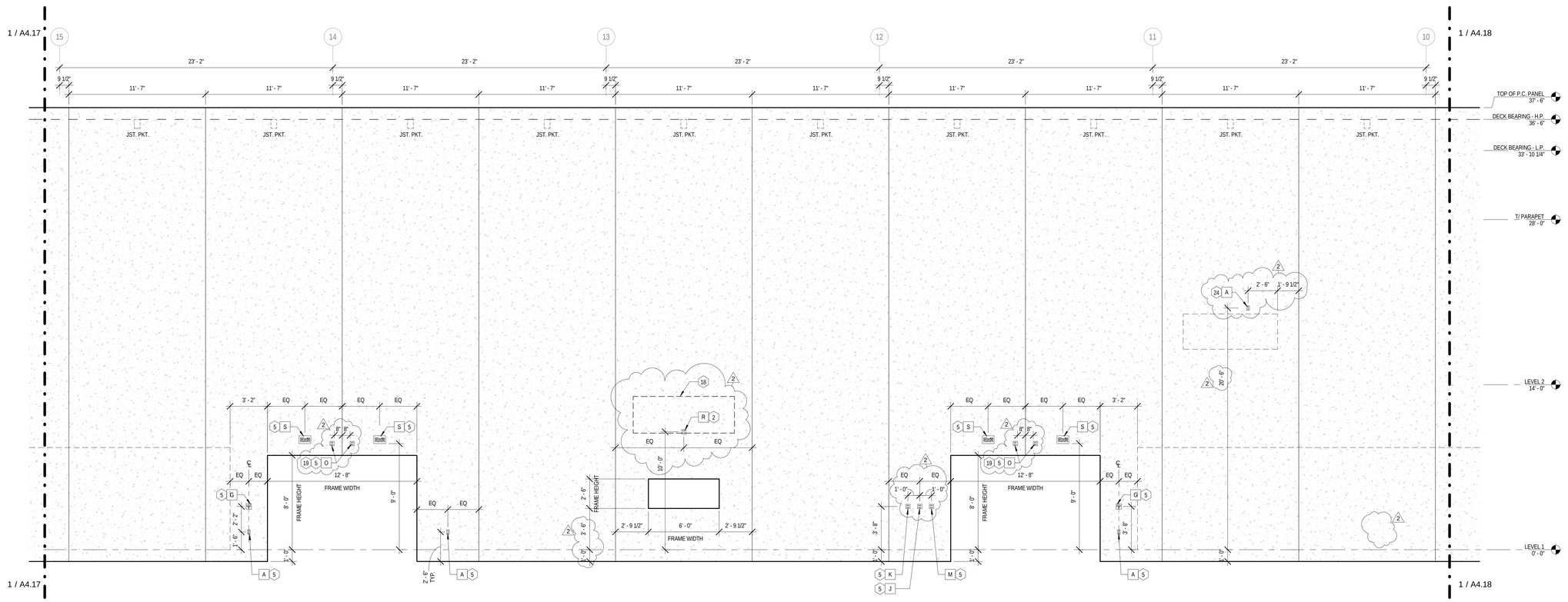
SHEET TITLE:
PRECAST PANEL INTERIOR ELEVATIONS

SHEET NUMBER:
A4.16

8/28/2015 4:15:34 PM



1 PRECAST INTERIOR ELEVATION - EAST A
1/4" = 1'-0"



2 PRECAST INTERIOR ELEVATION - EAST B
1/4" = 1'-0"

ARCHITECT OF RECORD
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P: 630.527.2320

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

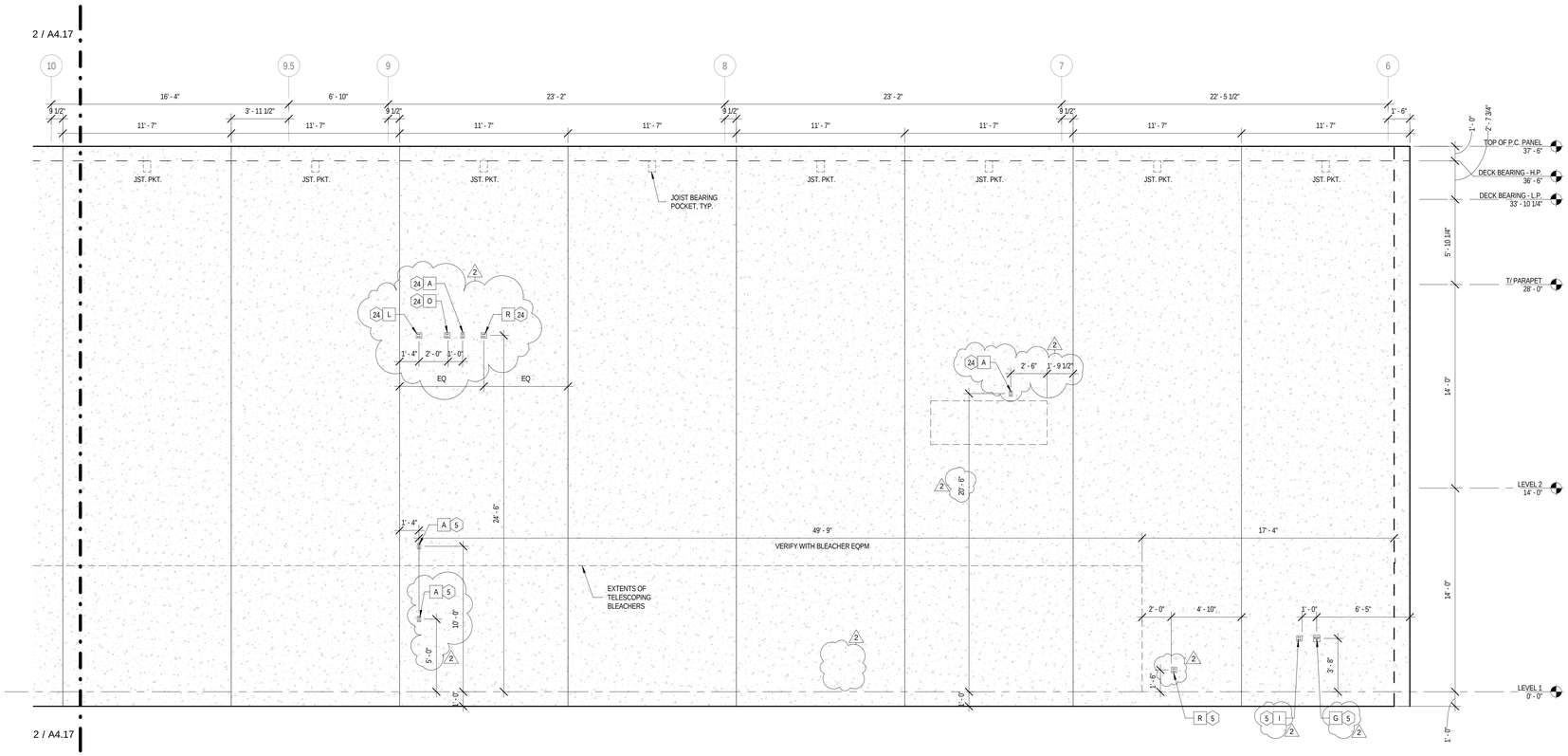
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

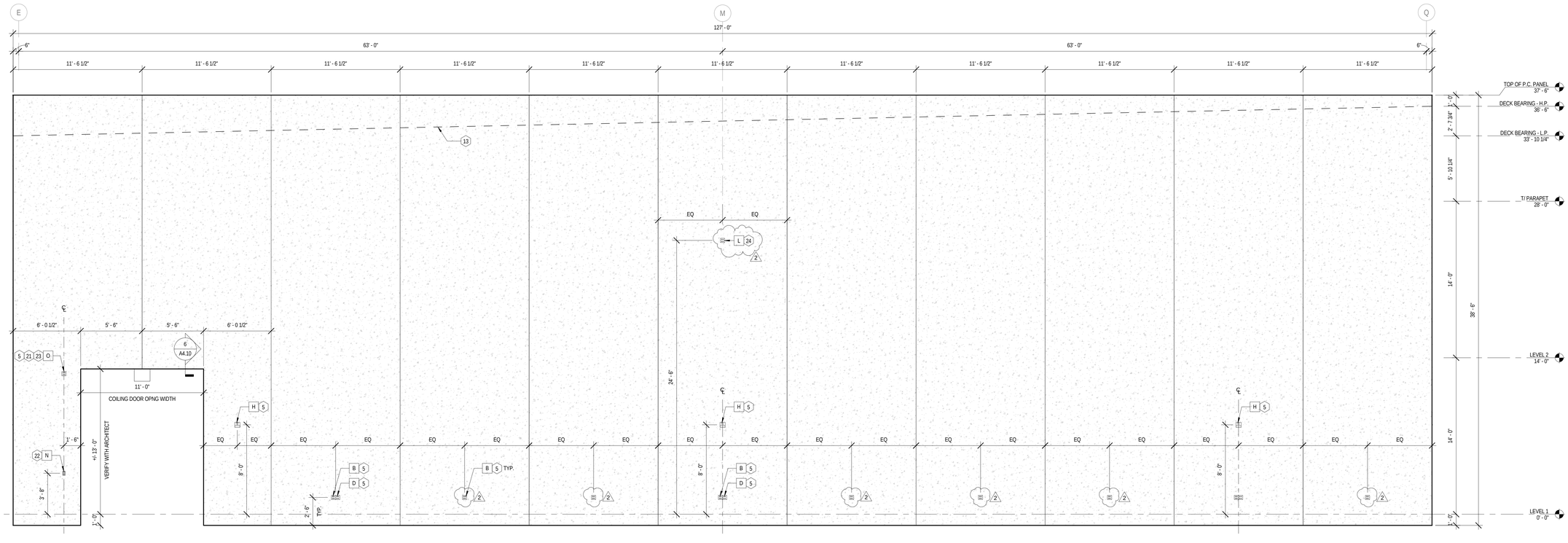
SHEET TITLE:
PRECAST PANEL INTERIOR ELEVATIONS

SHEET NUMBER:
A4.17

8/28/2015 4:15:51 PM



1 PRECAST INTERIOR ELEVATION - EAST C
1/4" = 1'-0"



2 PRECAST INTERIOR ELEVATION - NORTH
1/4" = 1'-0"

ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

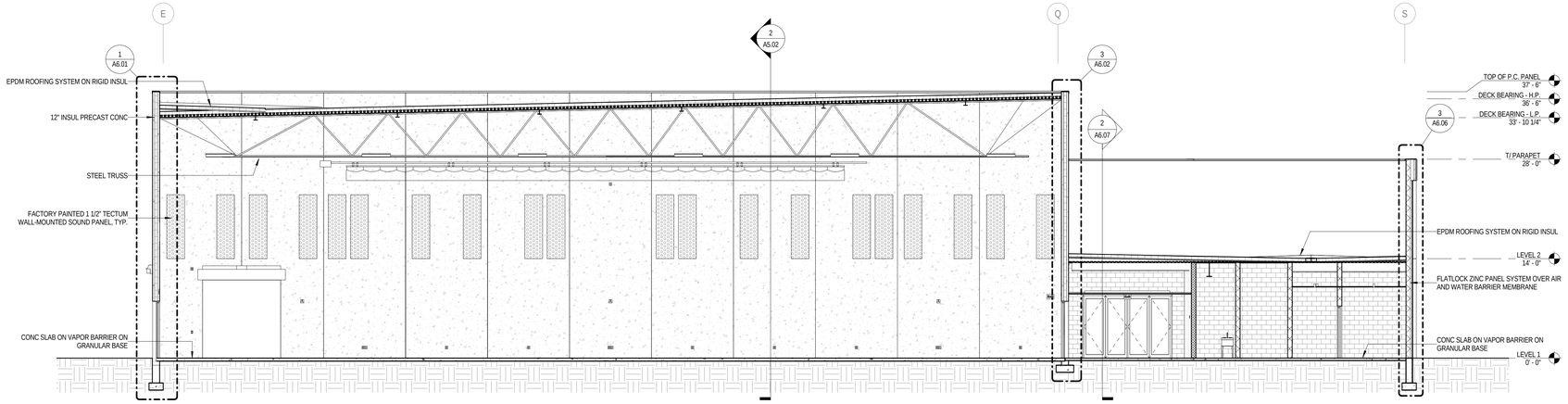
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

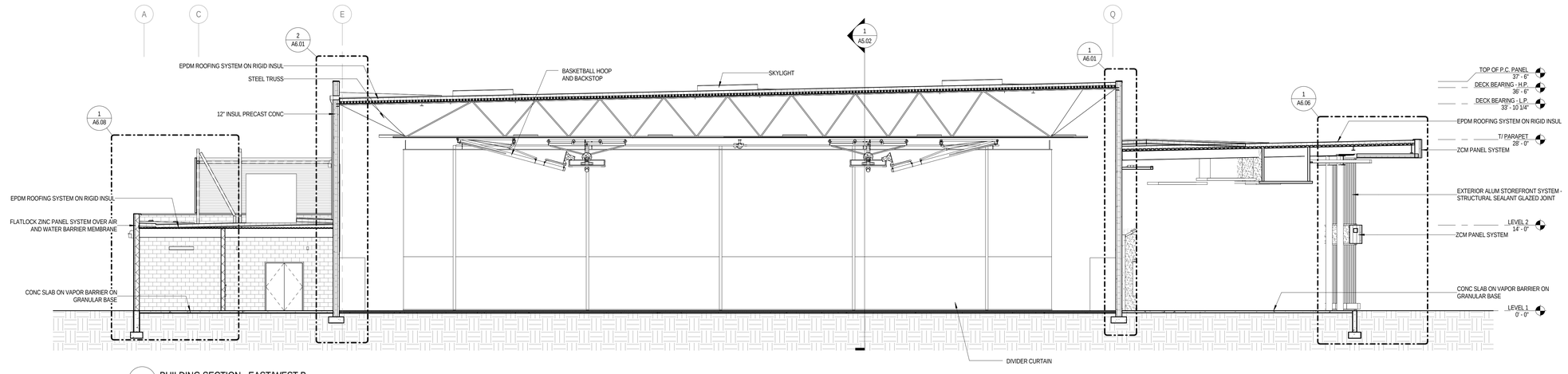
SHEET TITLE:
PRECAST PANEL INTERIOR ELEVATIONS

SHEET NUMBER:
A4.18

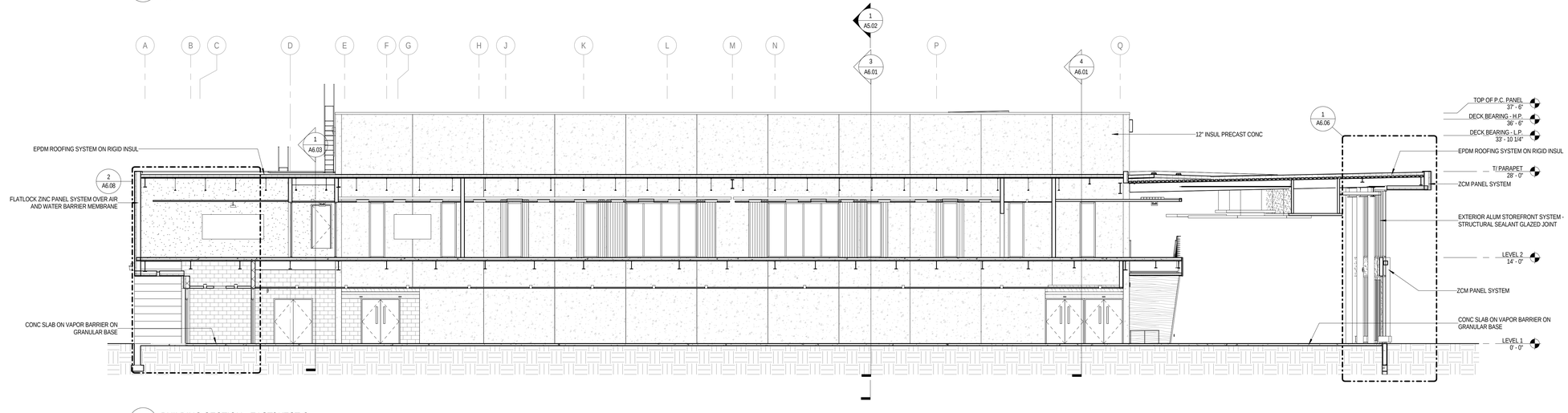
8/28/2015 4:15:59 PM



1 BUILDING SECTION - EAST/WEST A
1/8" = 1'-0"



2 BUILDING SECTION - EAST/WEST B
1/8" = 1'-0"



3 BUILDING SECTION - EAST/WEST C
1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

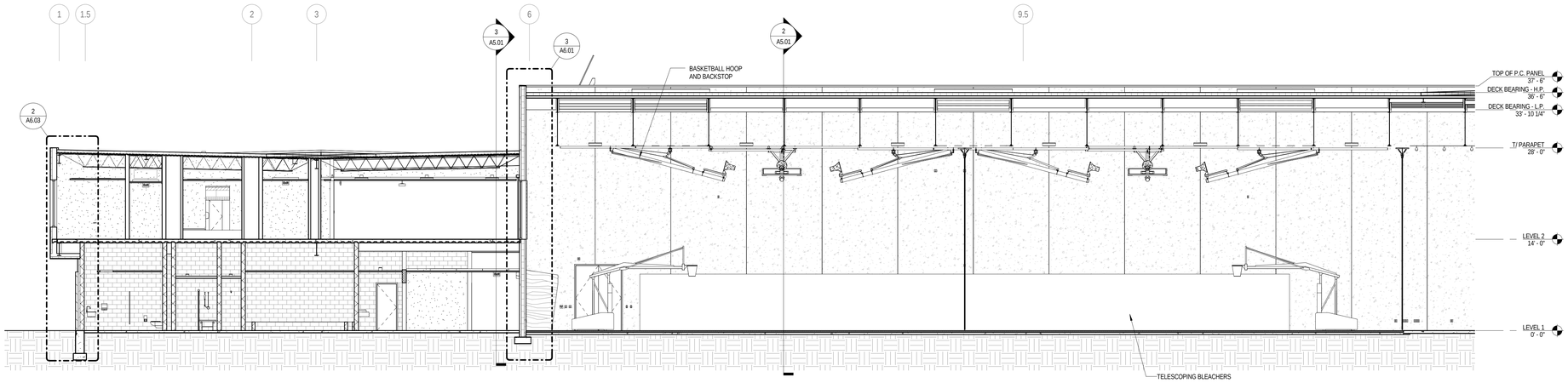
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

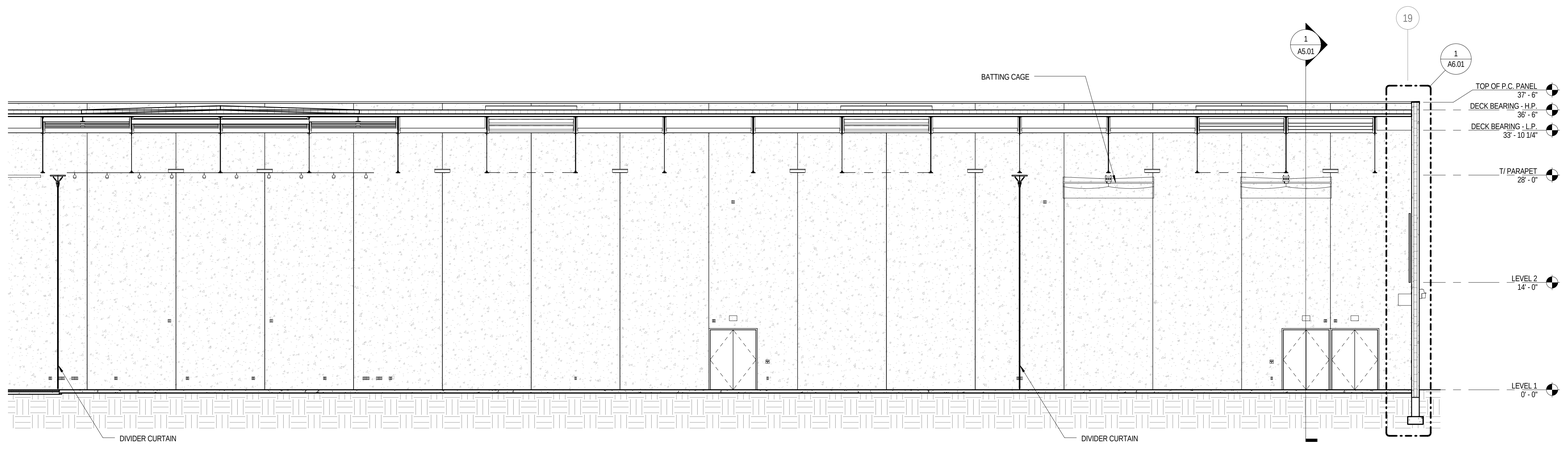
SHEET TITLE:
BUILDING SECTIONS

SHEET NUMBER:
A5.01

8/28/2015 4:16:08 PM



1 BUILDING SECTION - NORTH/WEST
1/8" = 1'-0"



2 BUILDING SECTION - NORTH/WEST, CONT'D
1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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P: 312.496.0000

STRUCTURAL AND MEP ENGINEERING
KJWW ENGINEERING CONSULTANTS
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NAPERVILLE, IL 60563
P: 630.527.2320

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

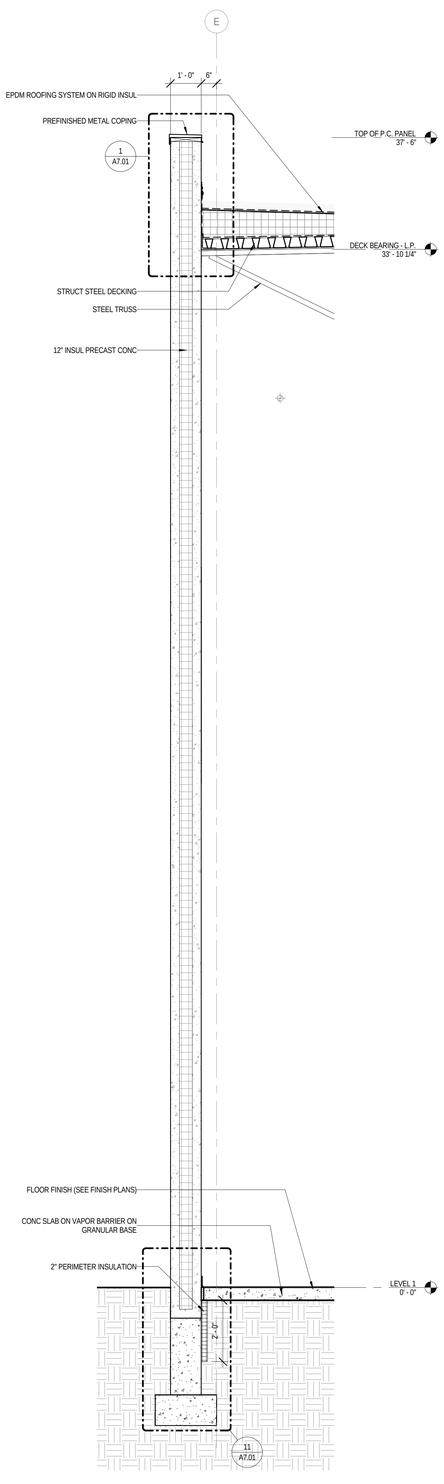
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

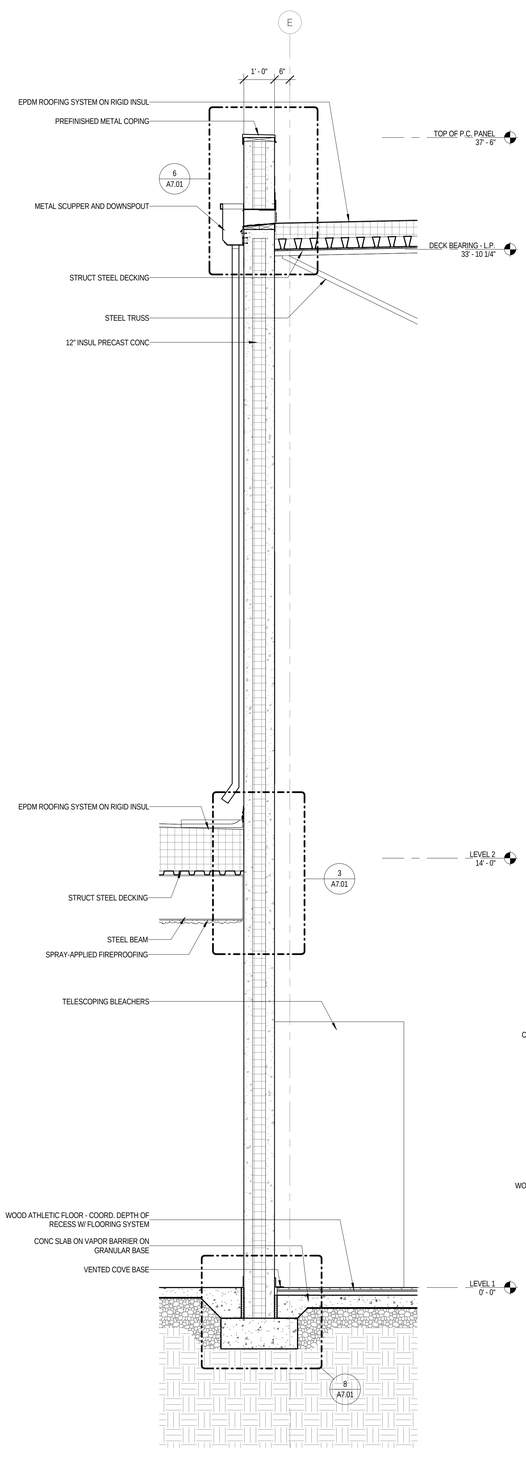
SHEET TITLE:
BUILDING SECTIONS

SHEET NUMBER:
A5.02

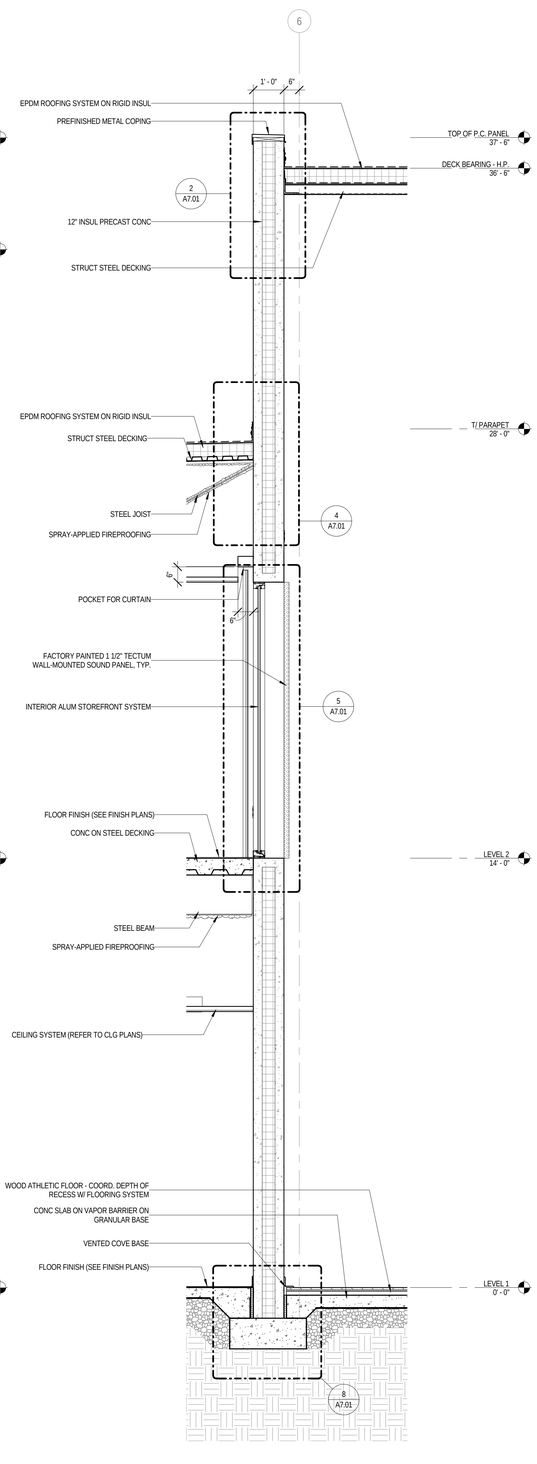
8/28/2015 4:16:19 PM



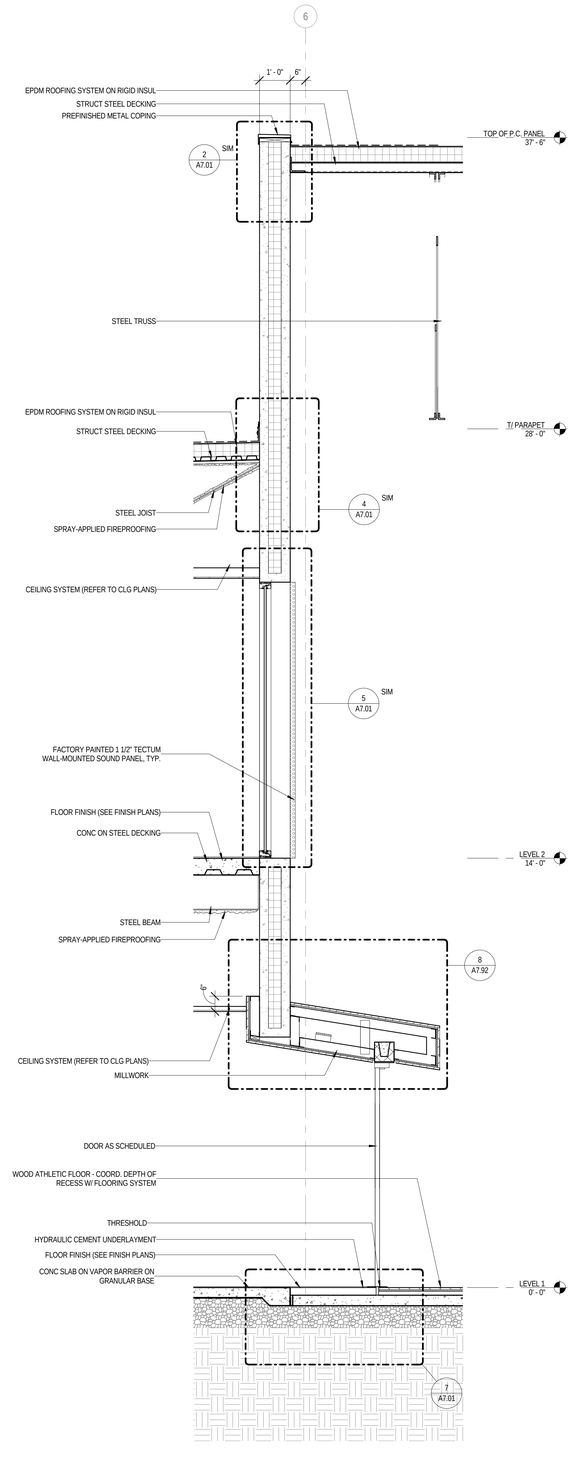
1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



4 WALL SECTION
1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

STRUCTURAL AND MEP ENGINEERING
KJWW ENGINEERING CONSULTANTS
1100 WARRENVILLE RD., STE. 400W
NAPERVILLE, IL 60563
P: 630.527.2320

CIVIL ENGINEERING
RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DR.
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.01

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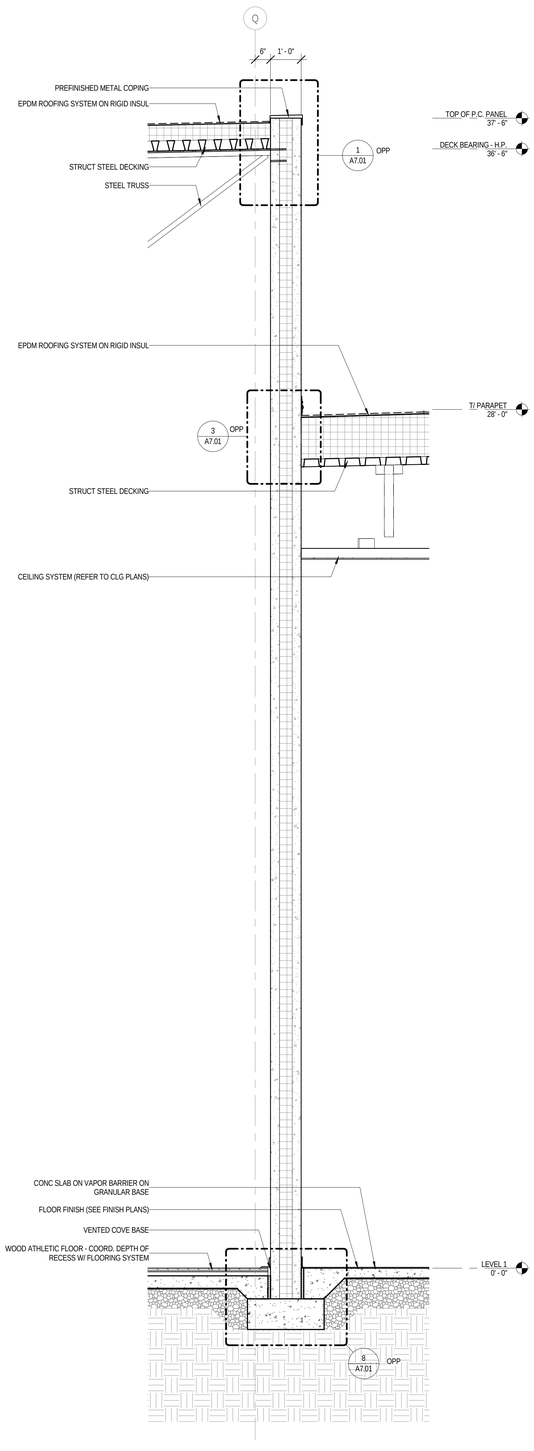
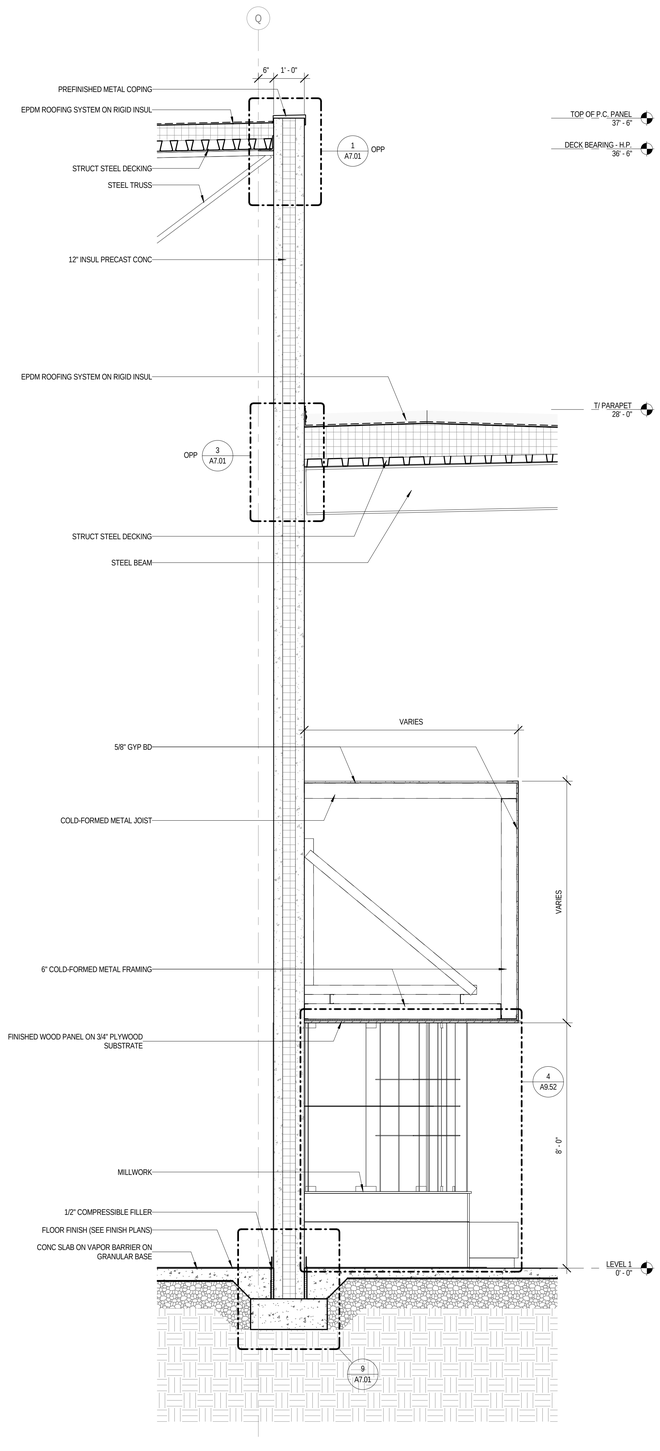
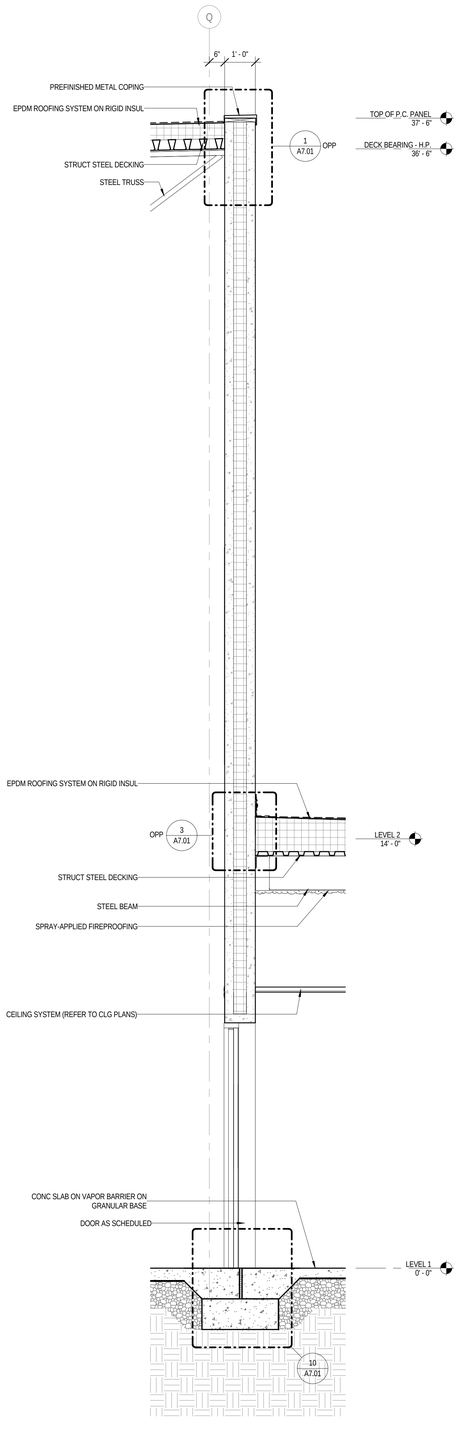


1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"

ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
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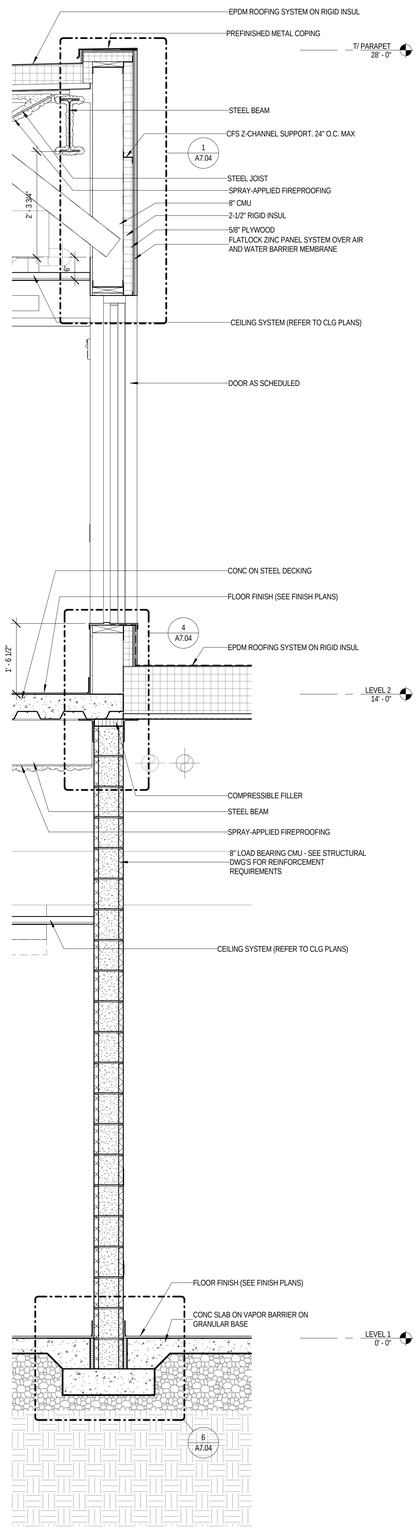
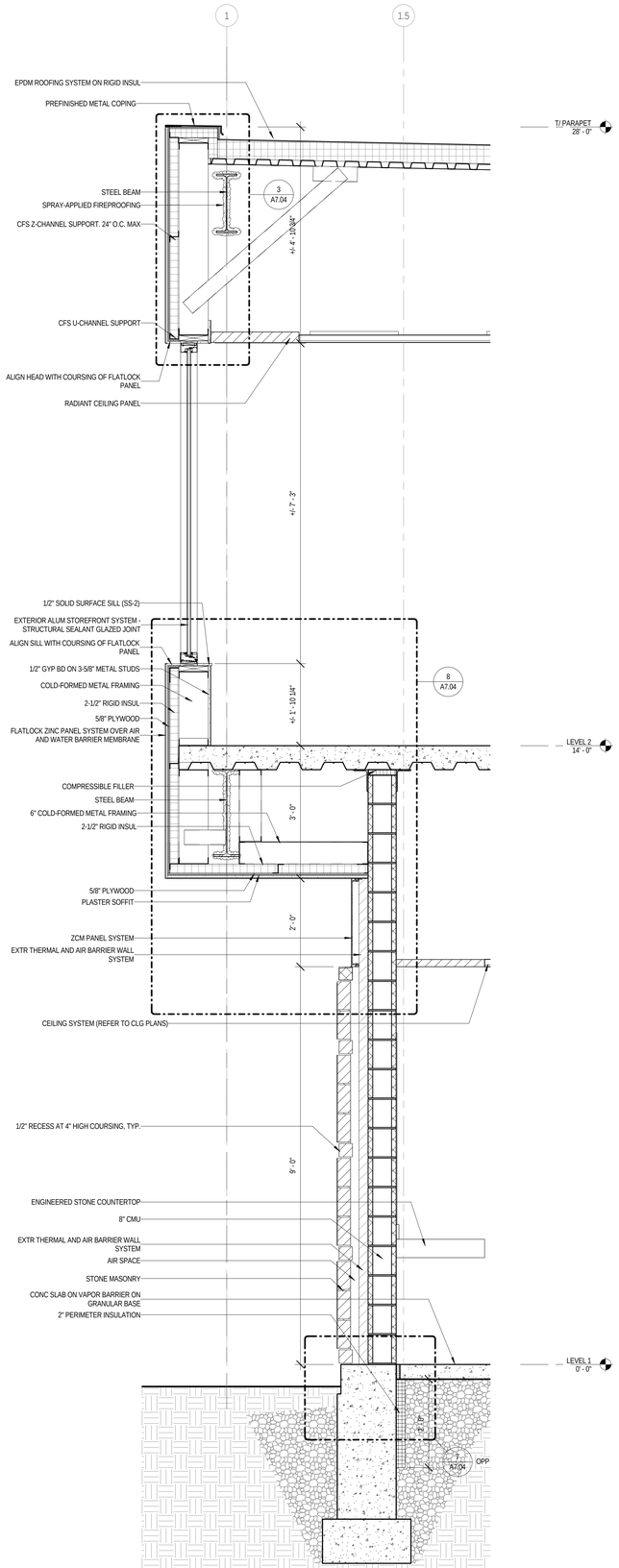
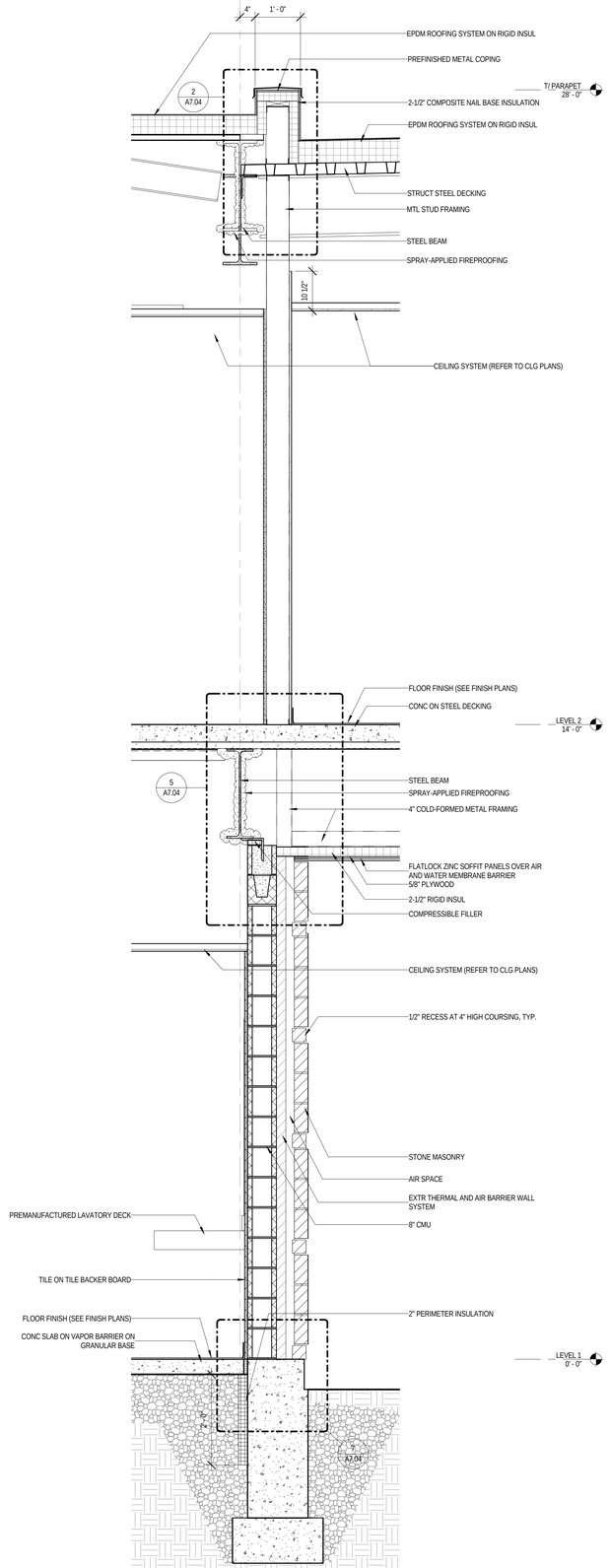


1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
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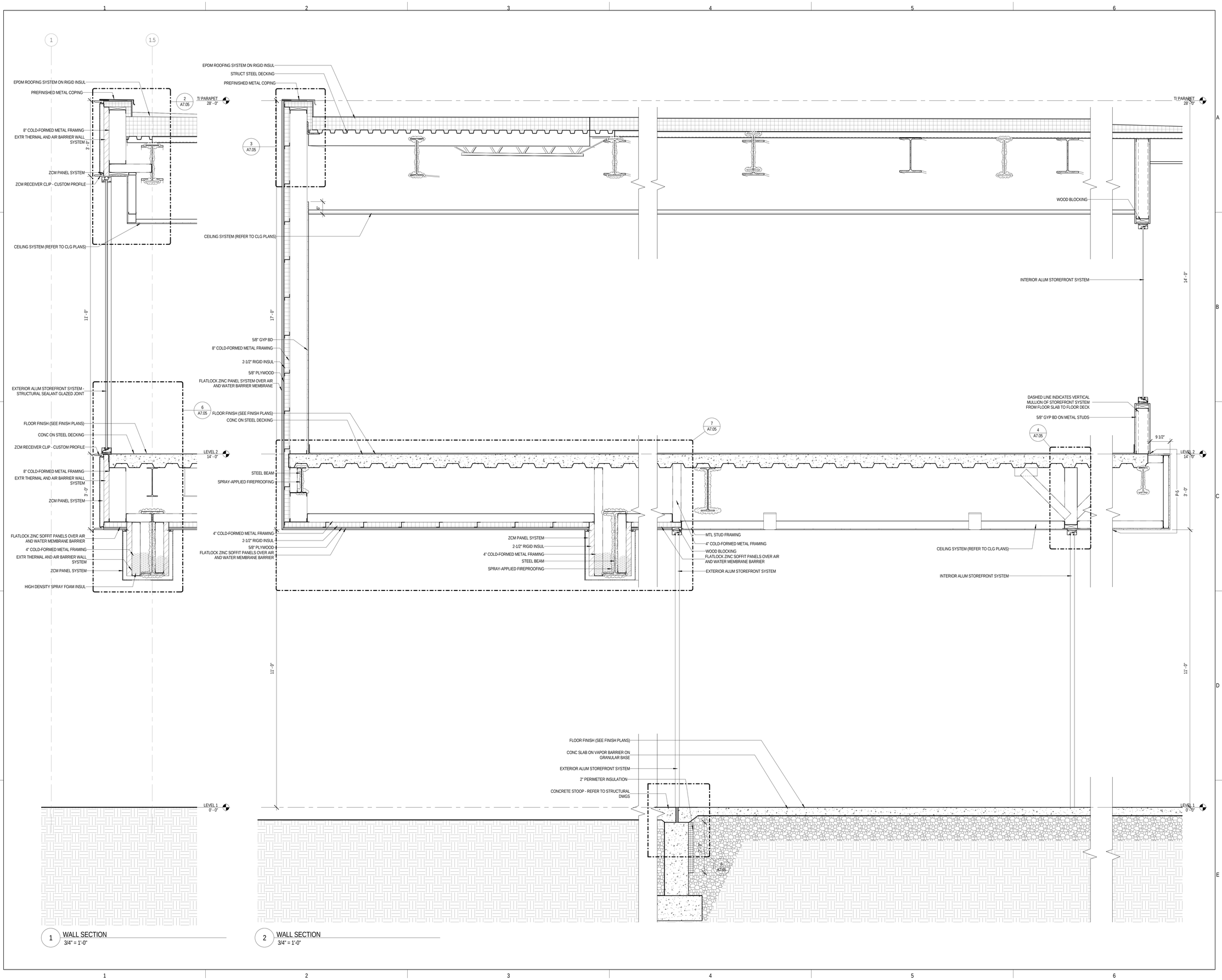

1 WALL SECTION
3/4" = 1'-0"

2 WALL SECTION
3/4" = 1'-0"

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

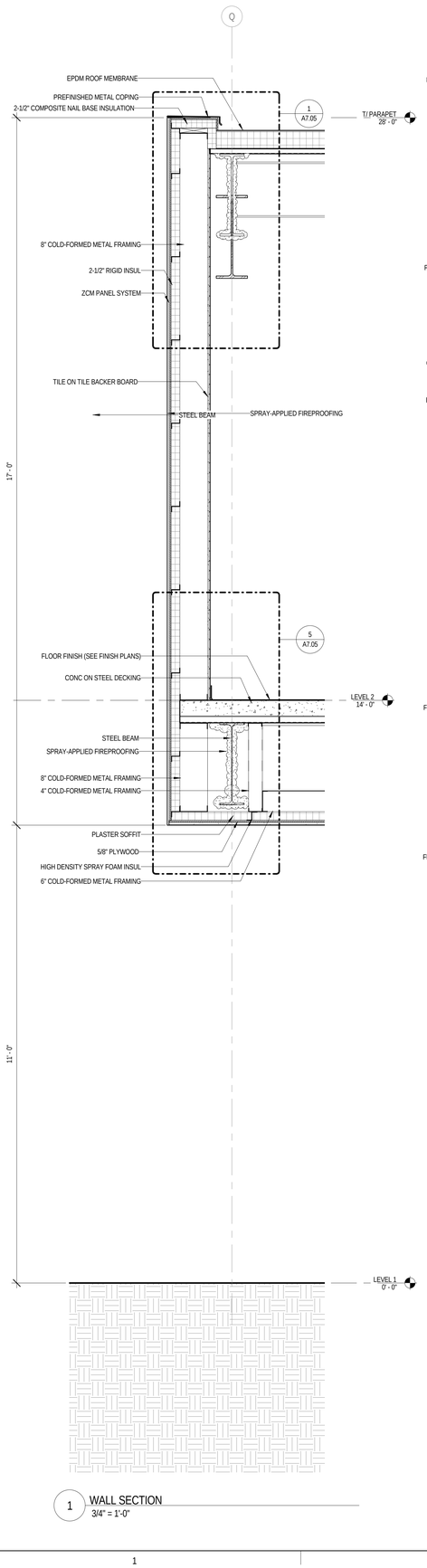
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

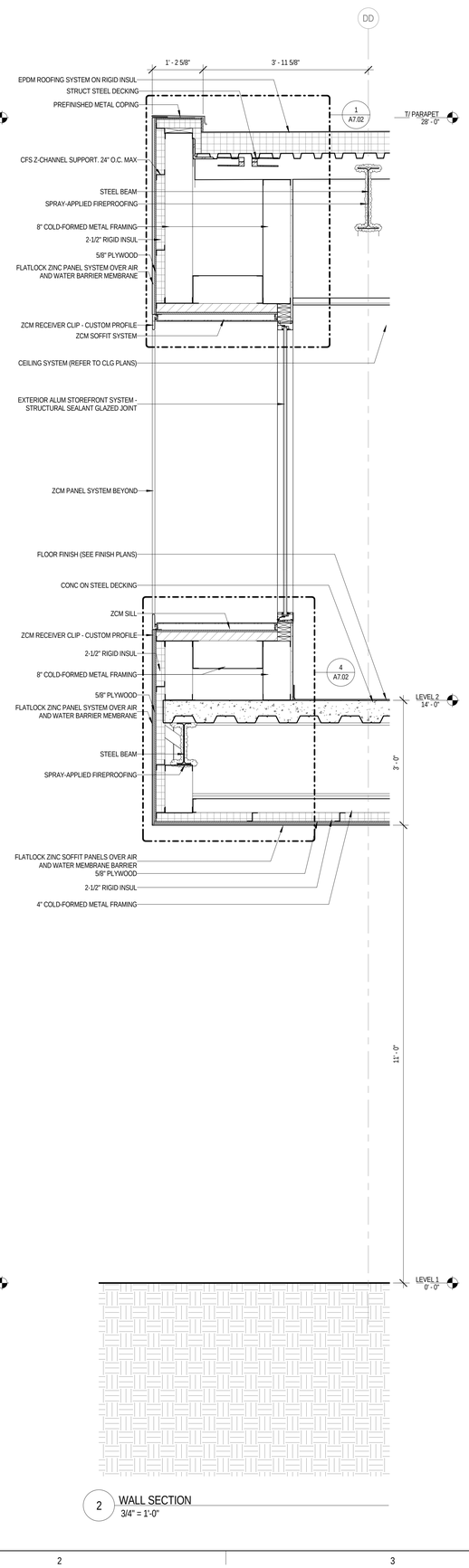
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.04

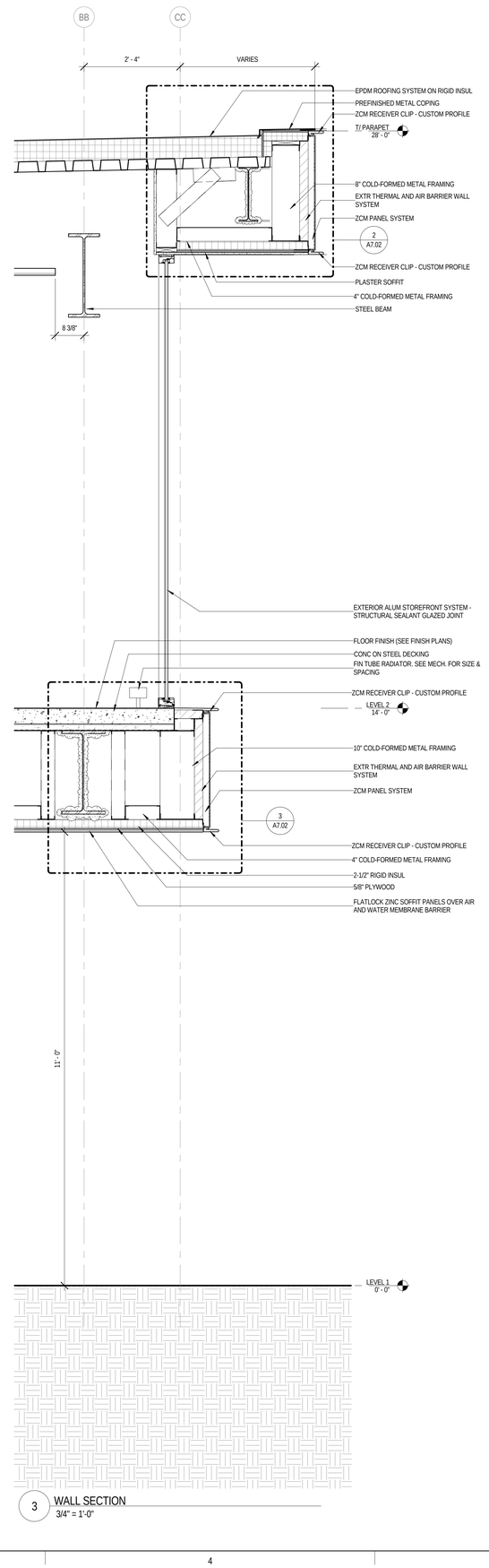
8/28/2015 4:16:43 PM



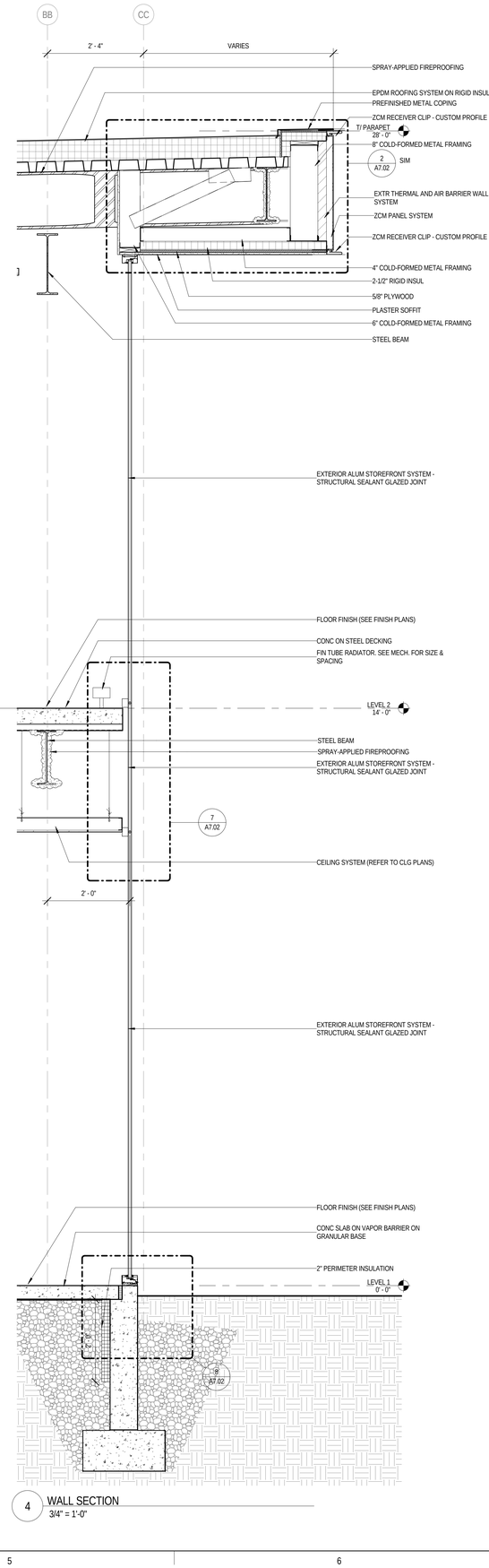
1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"



4 WALL SECTION
3/4" = 1'-0"

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

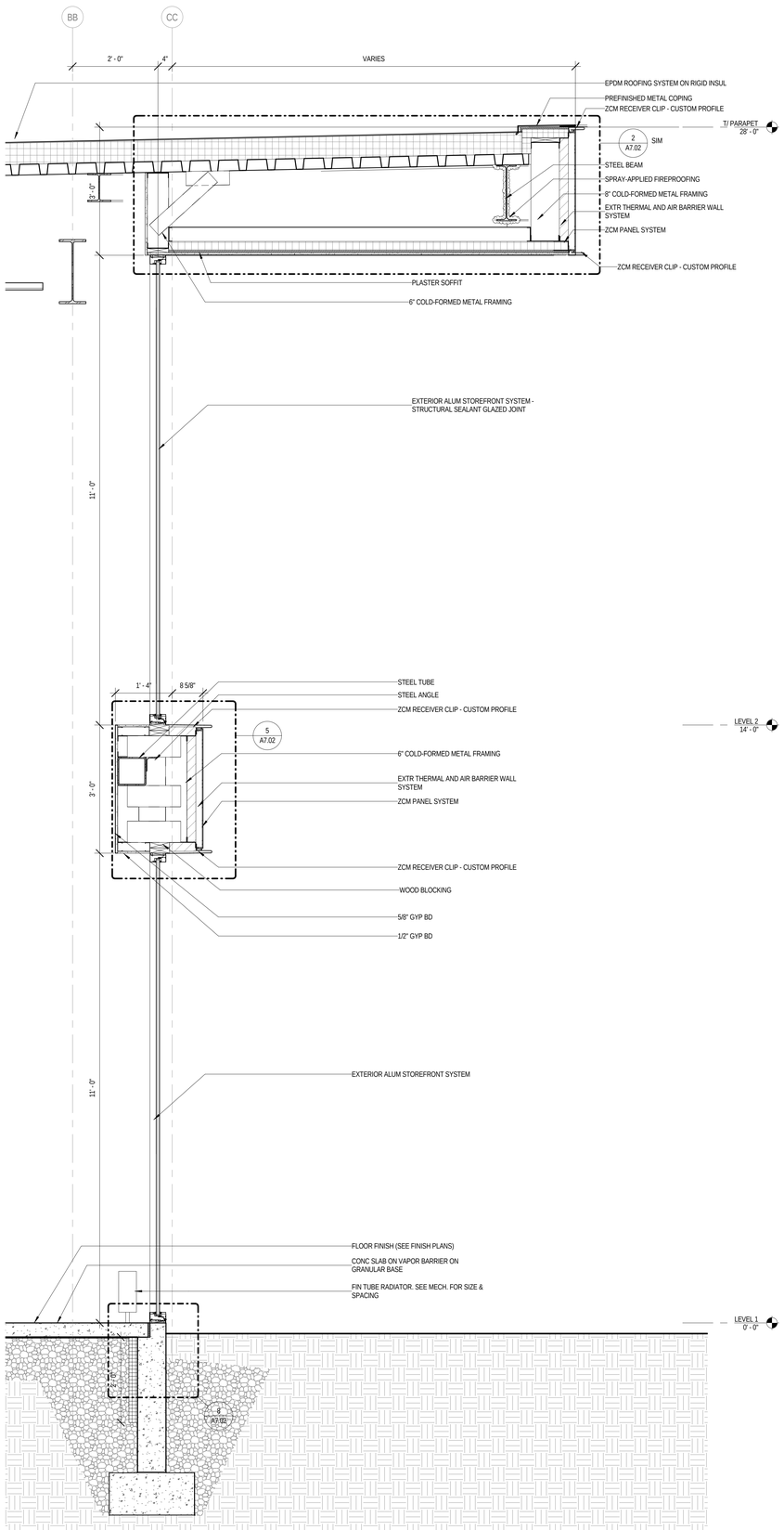
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

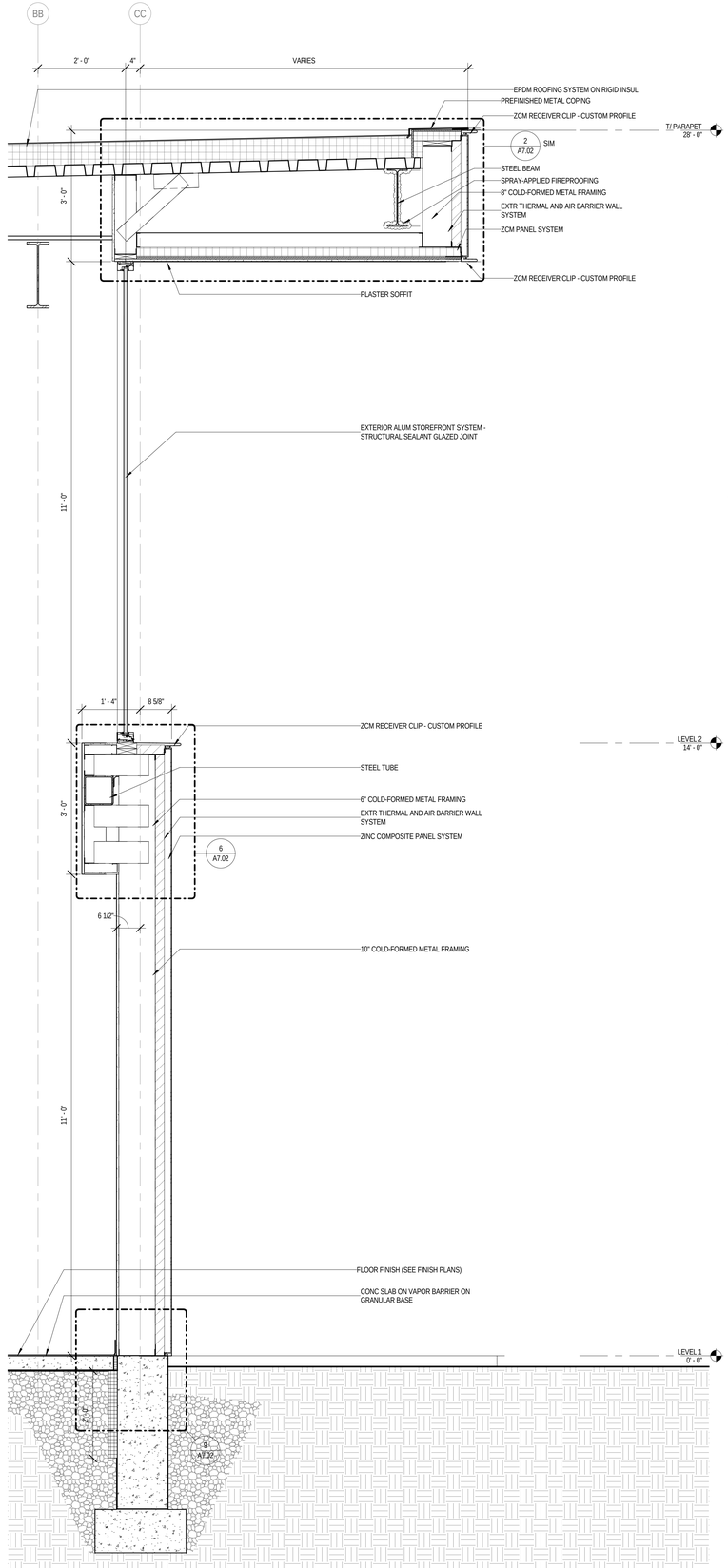
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.05

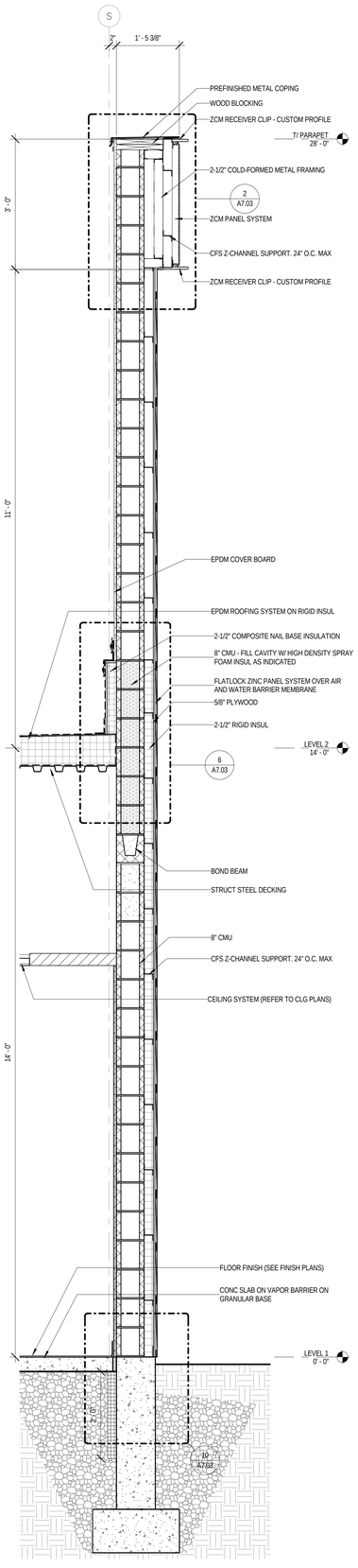
8/28/2015 4:16:49 PM



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
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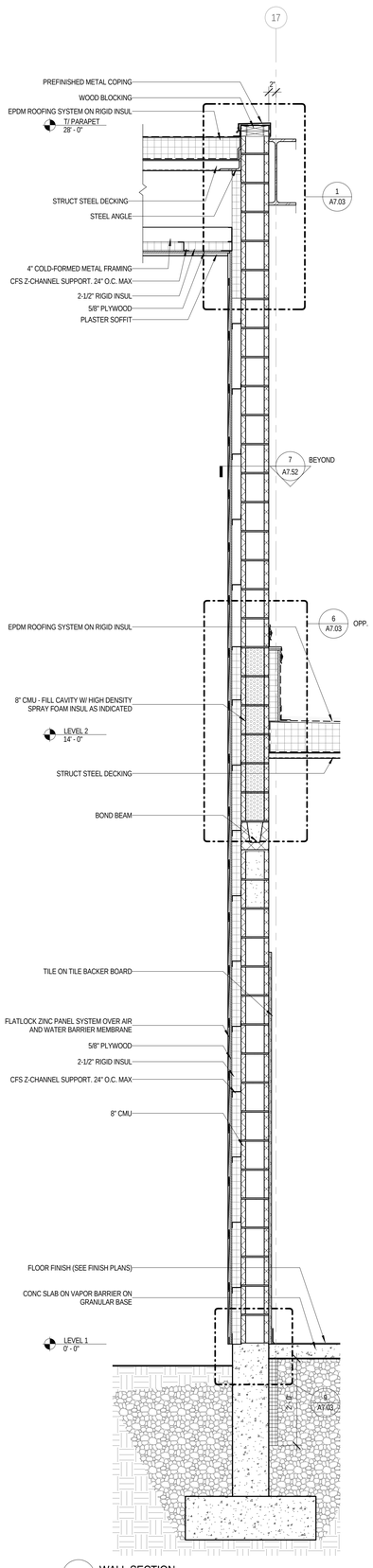
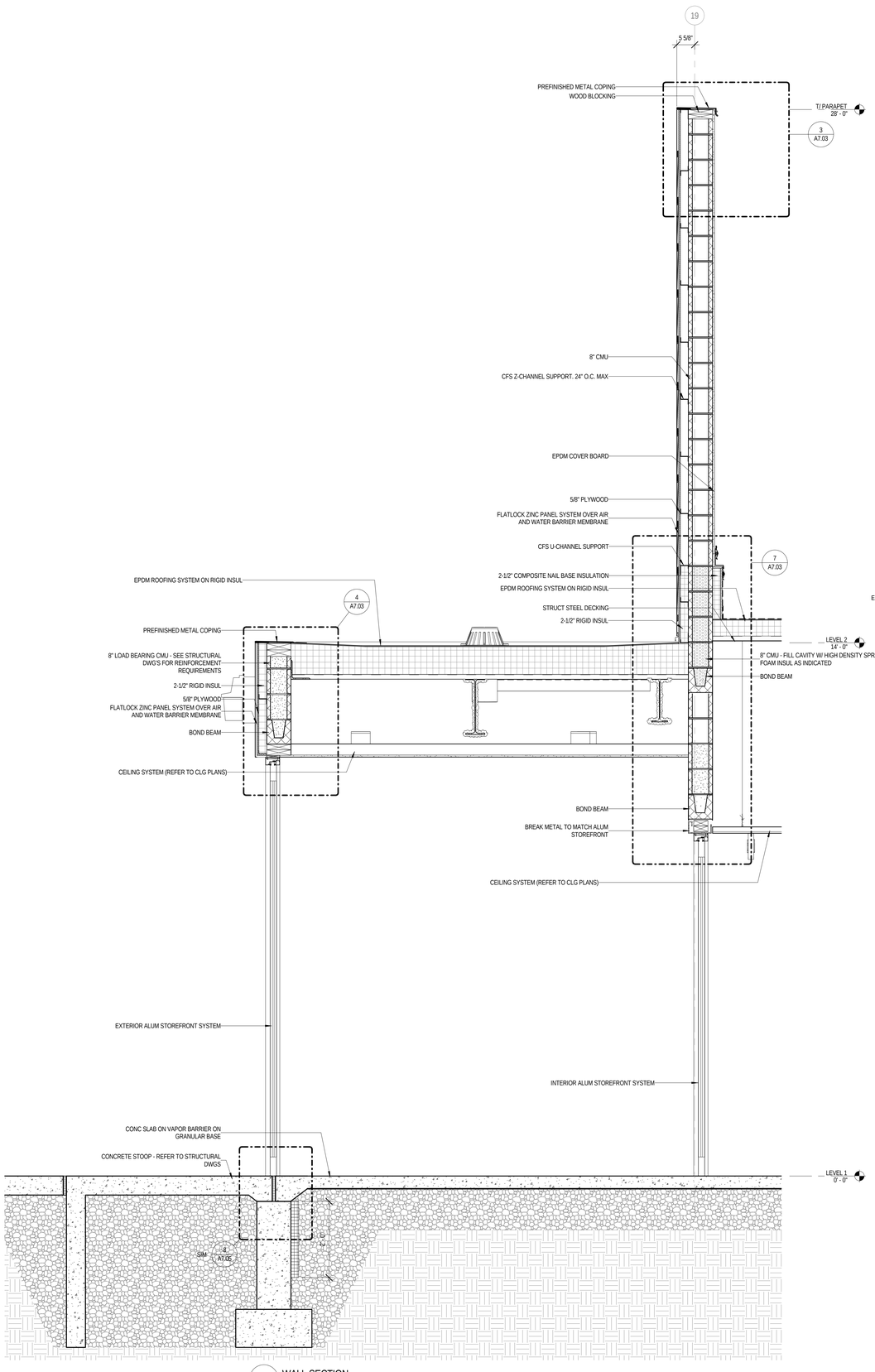
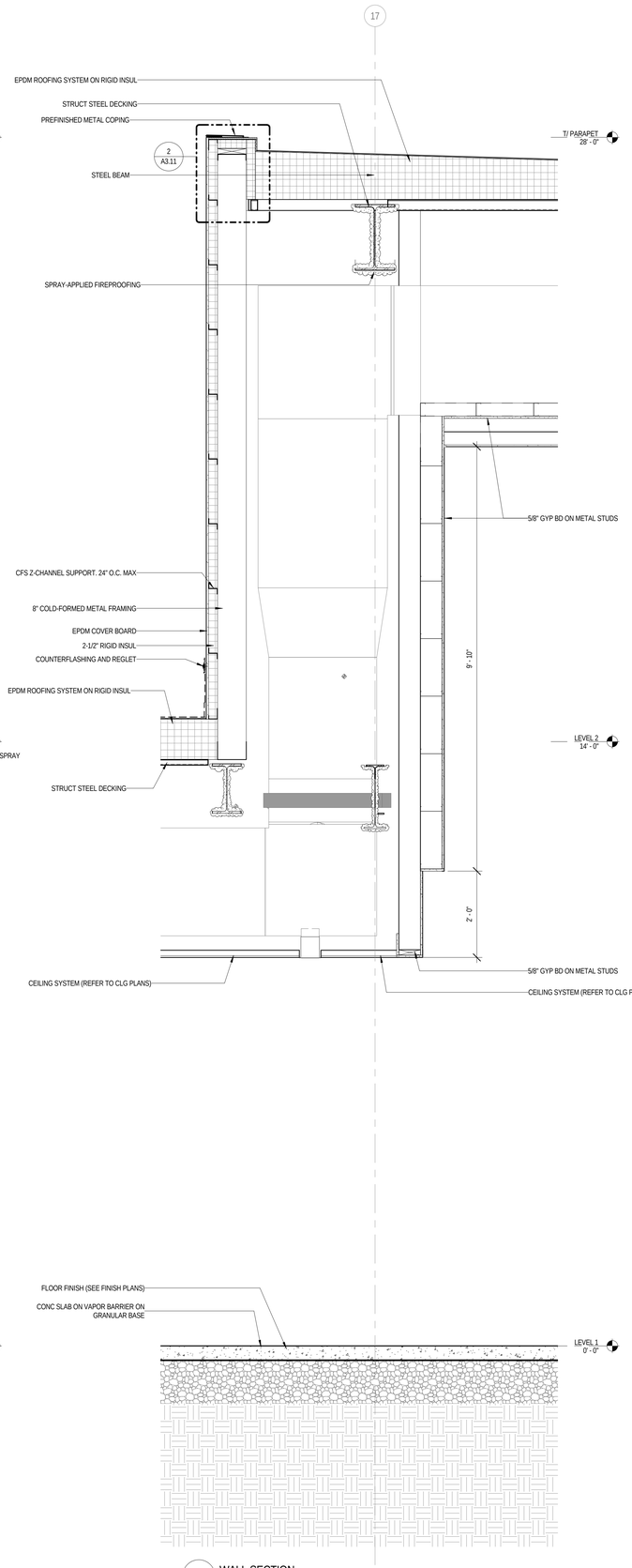


1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.07

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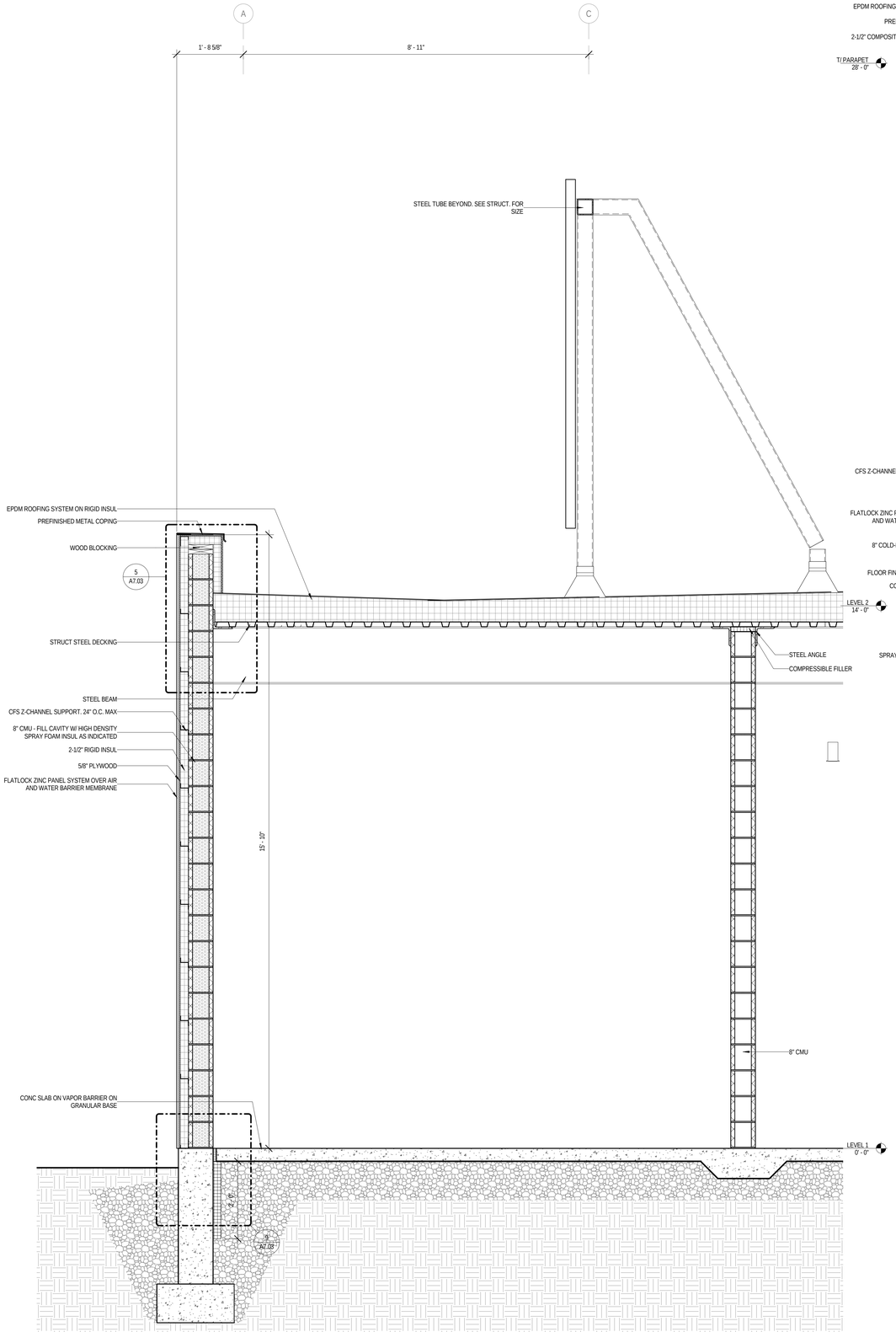
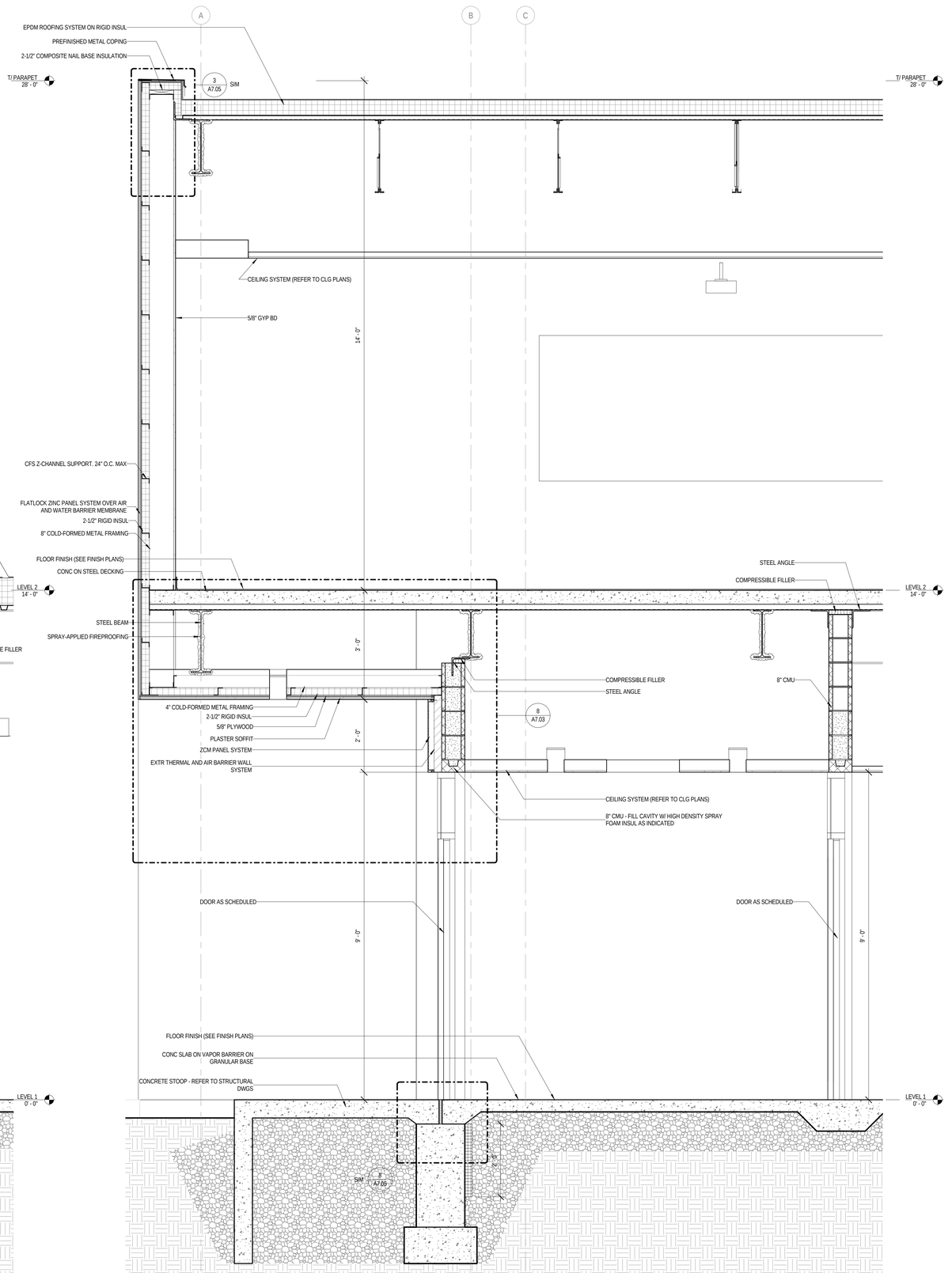


1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"

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CHICAGO, IL 60661
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
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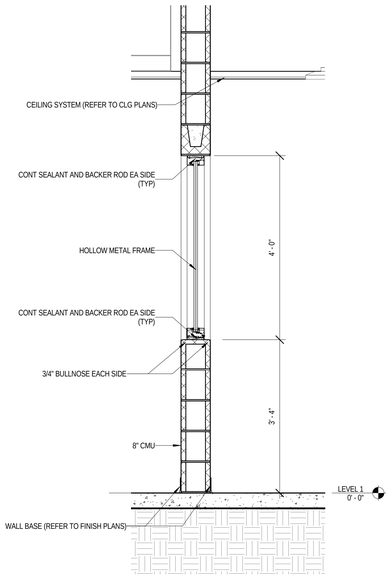
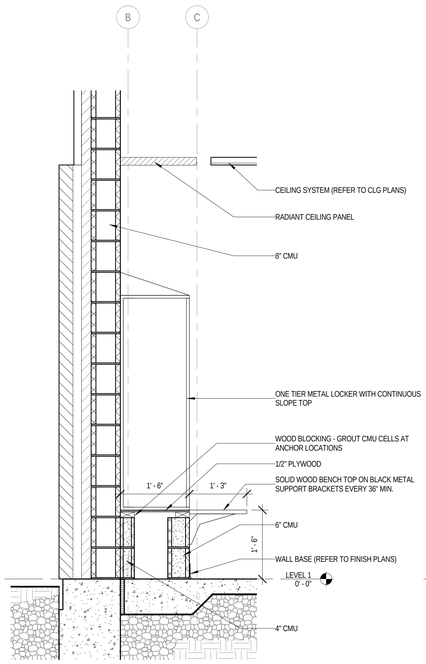
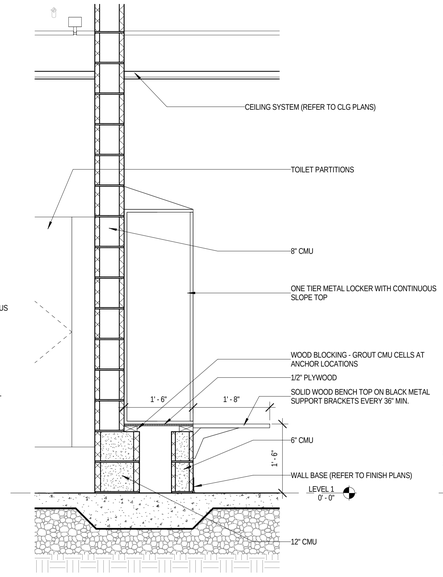


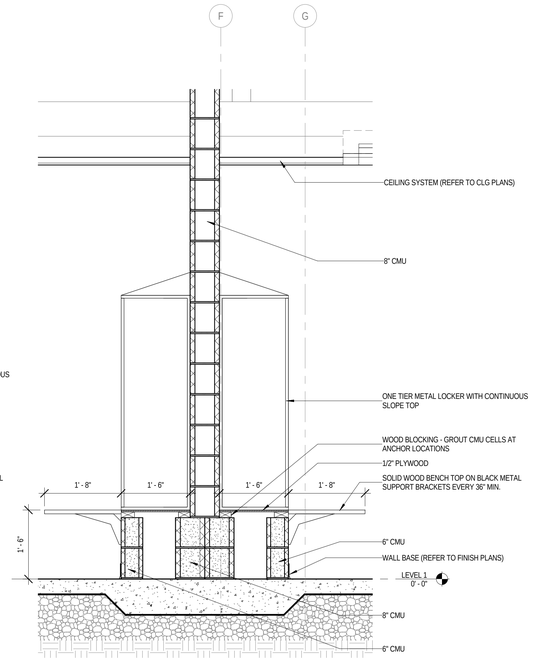
1 HYDROTHERAPY SECTION
3/4" = 1'-0"



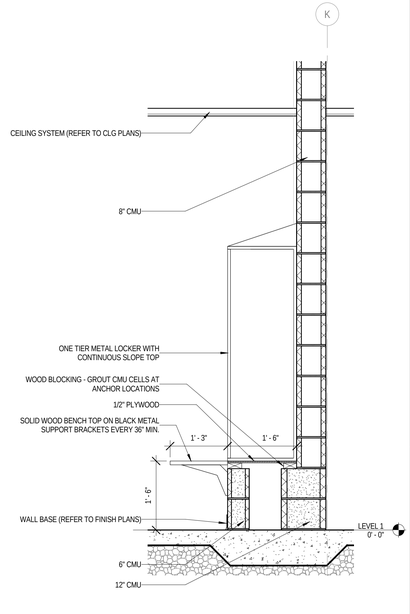
2 LOCKER SECTION - A
3/4" = 1'-0"



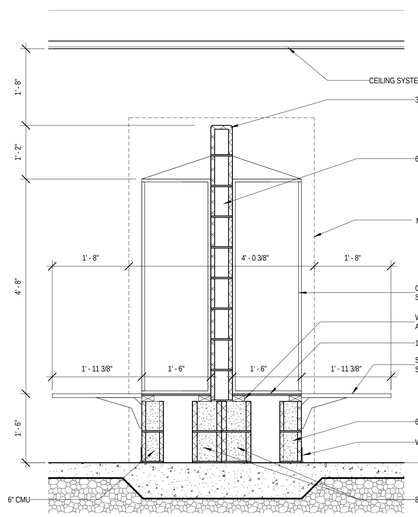
3 LOCKER SECTION - D
3/4" = 1'-0"



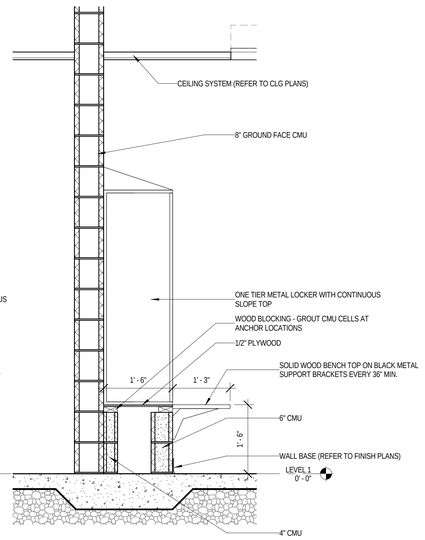
4 LOCKER SECTION - C
3/4" = 1'-0"



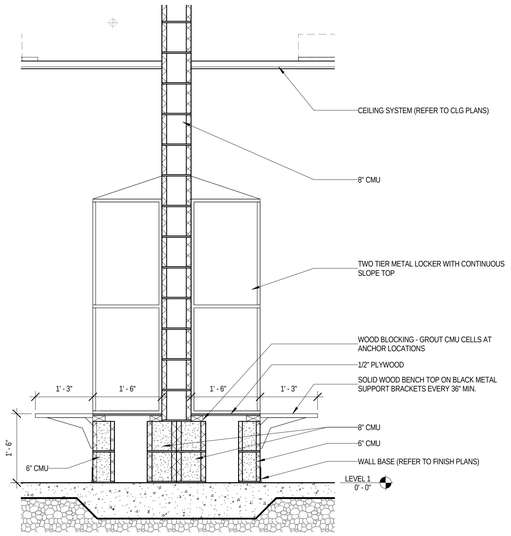
6 LOCKER SECTION - E
3/4" = 1'-0"



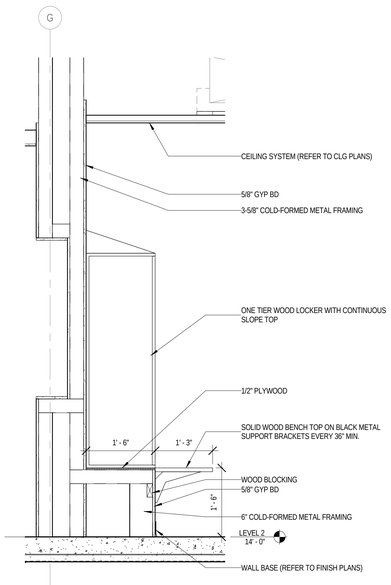
5 LOCKER SECTION - B
3/4" = 1'-0"



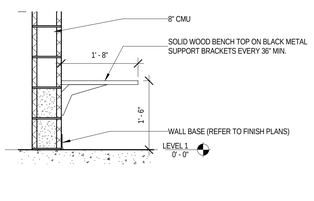
7 LOCKER SECTION - F
3/4" = 1'-0"



8 LOCKER SECTION - G
3/4" = 1'-0"



9 LOCKER SECTION - H
3/4" = 1'-0"



10 MILLWORK SECTION - LOCKER ROOM BENCH
3/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

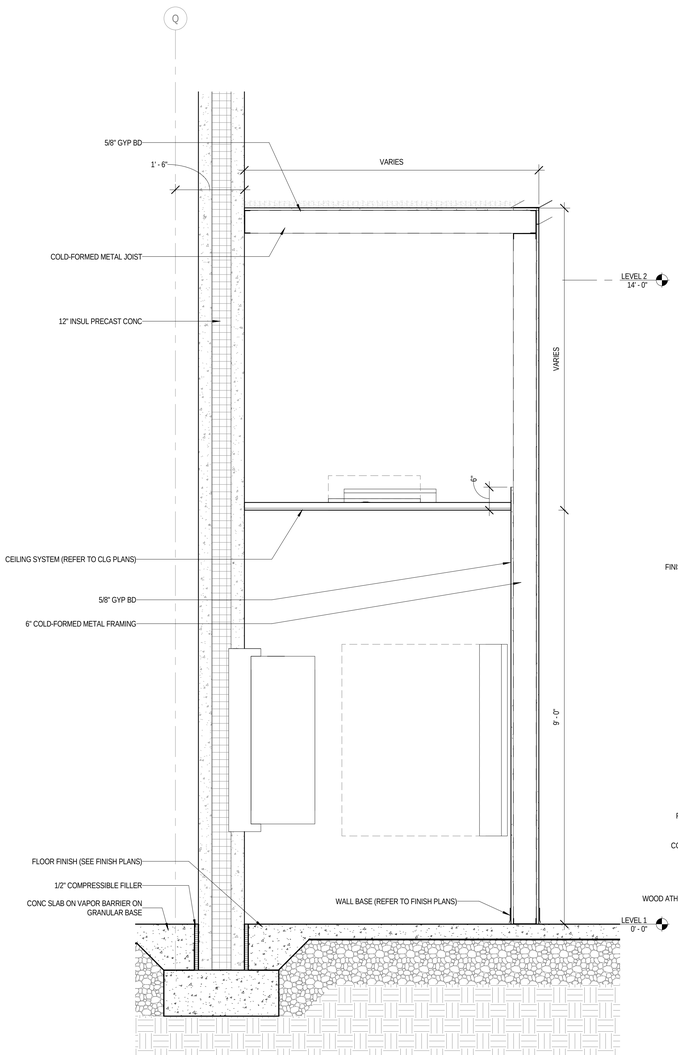
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

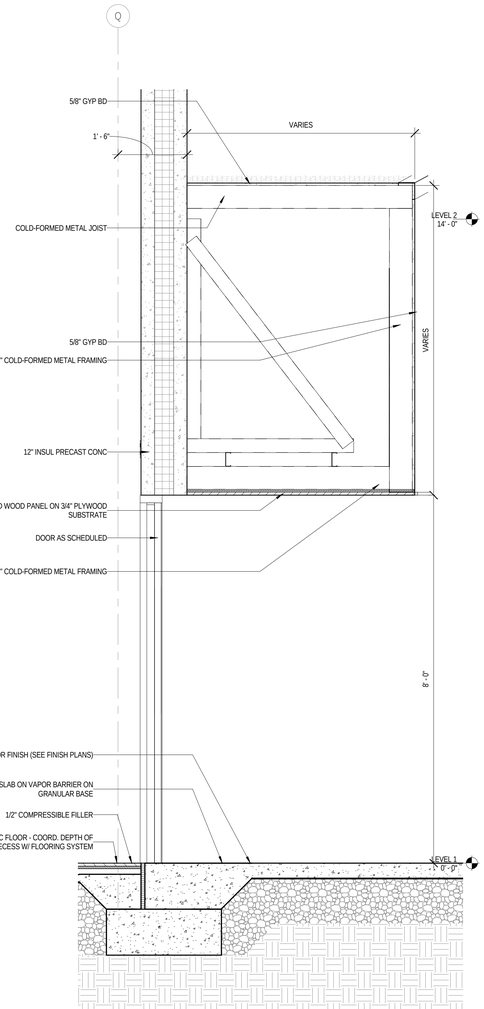
SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET NUMBER:
A6.50

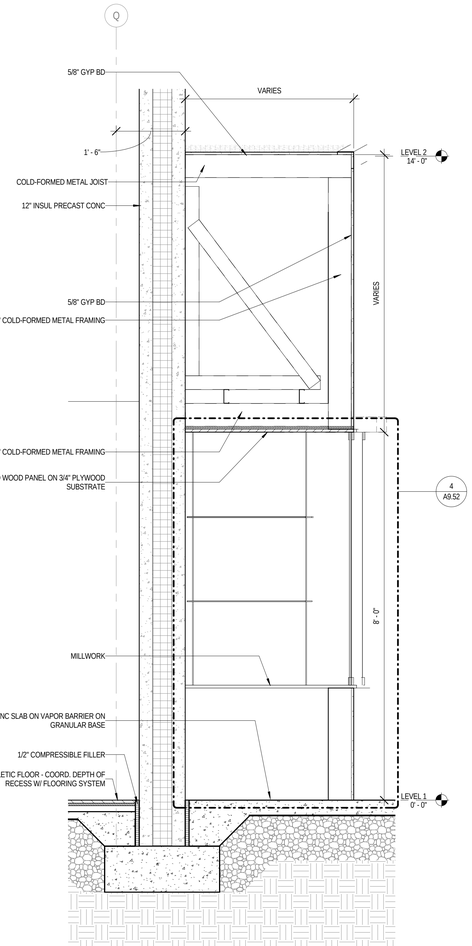
8/28/2015 4:17:29 PM



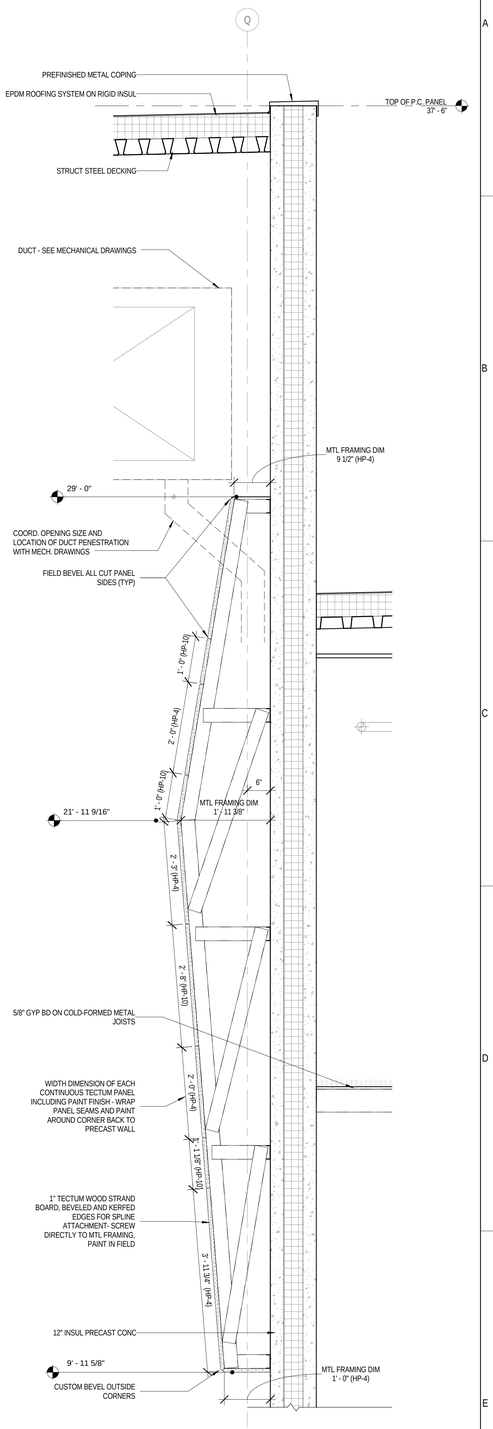
1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"



4 WALL SECTION
3/4" = 1'-0"

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RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DR.
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

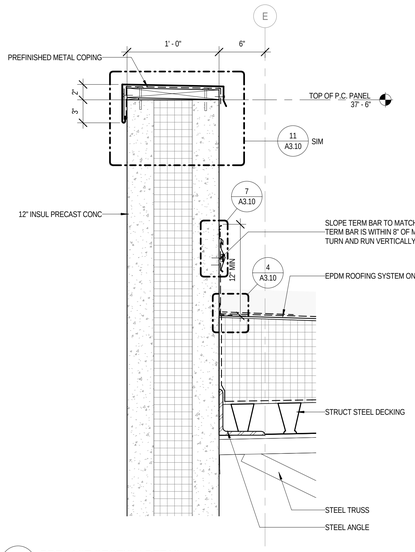
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

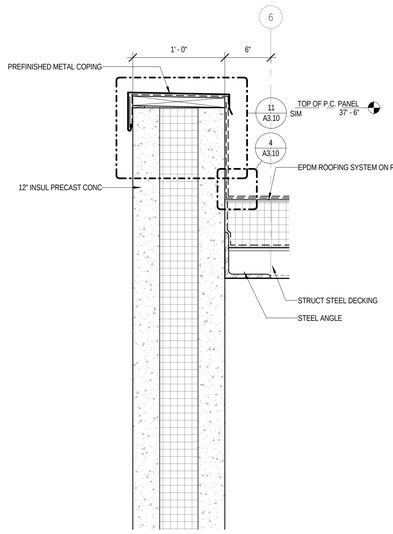
SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET NUMBER:
A6.51

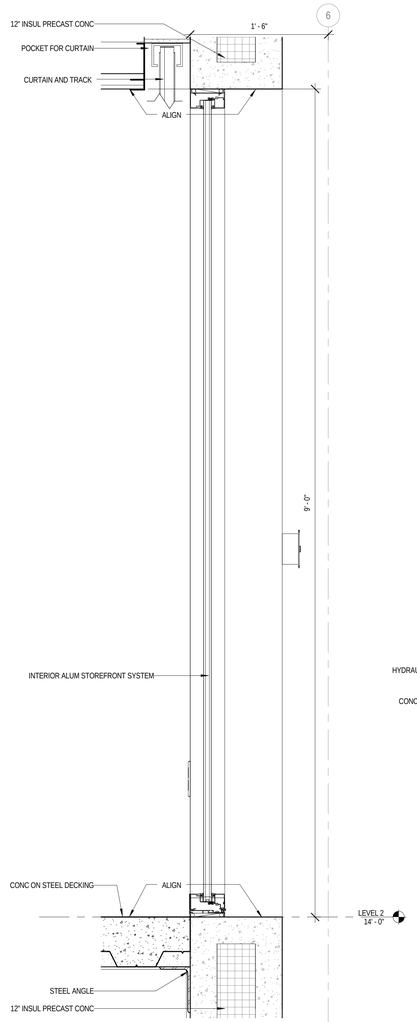
8/28/2015 4:17:35 PM



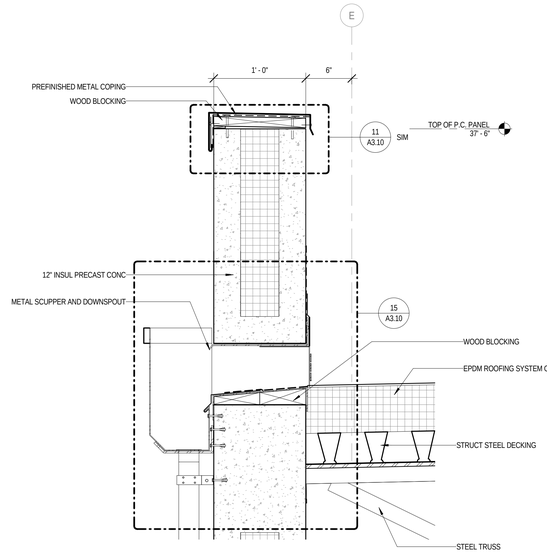
1 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



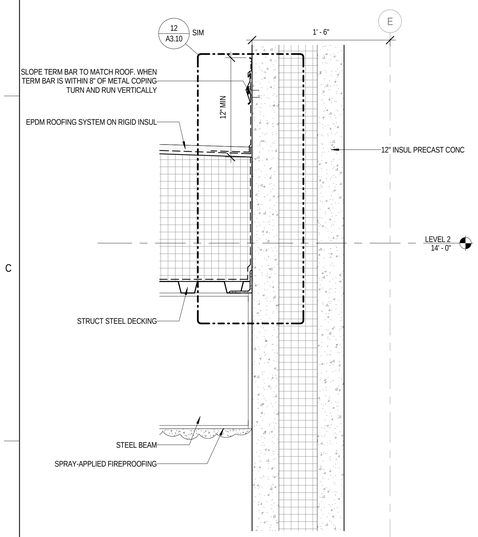
2 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



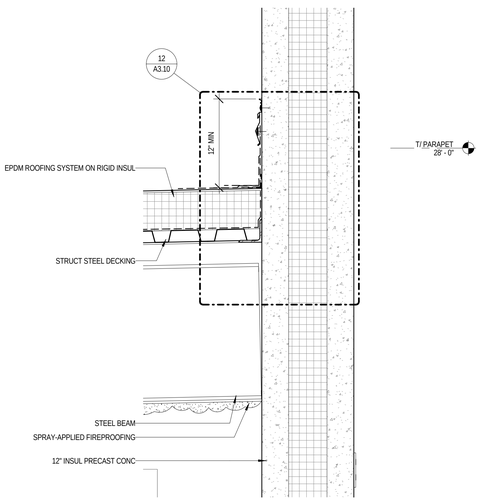
5 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



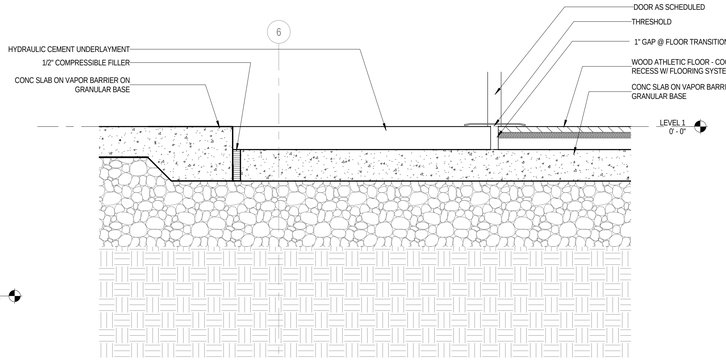
6 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



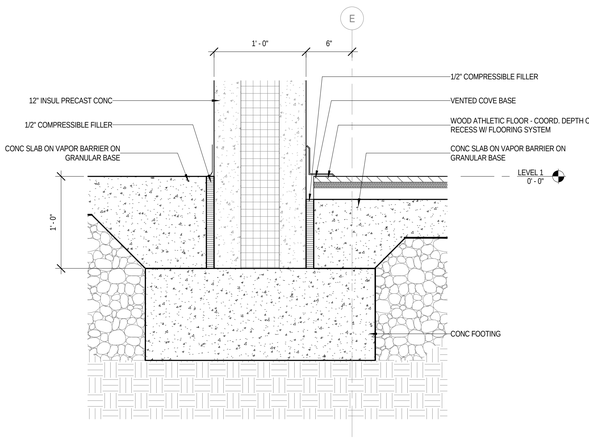
3 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



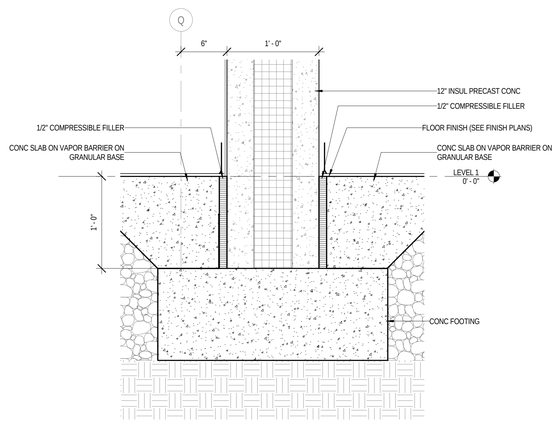
4 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



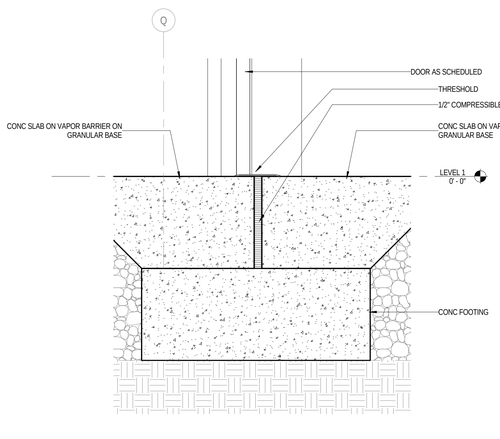
7 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



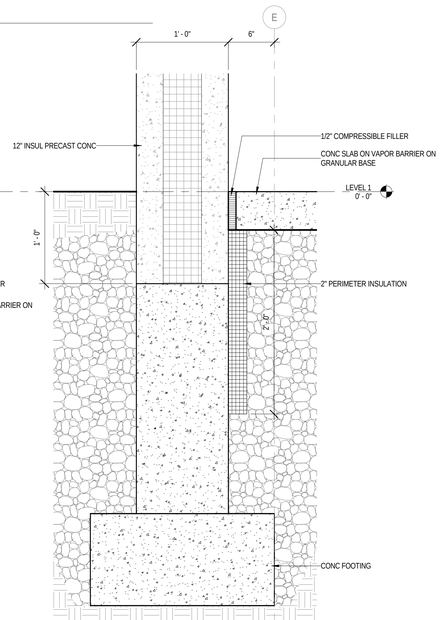
8 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



9 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



10 PRECAST SECTION DETAIL
1 1/2" = 1'-0"



11 PRECAST SECTION DETAIL
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

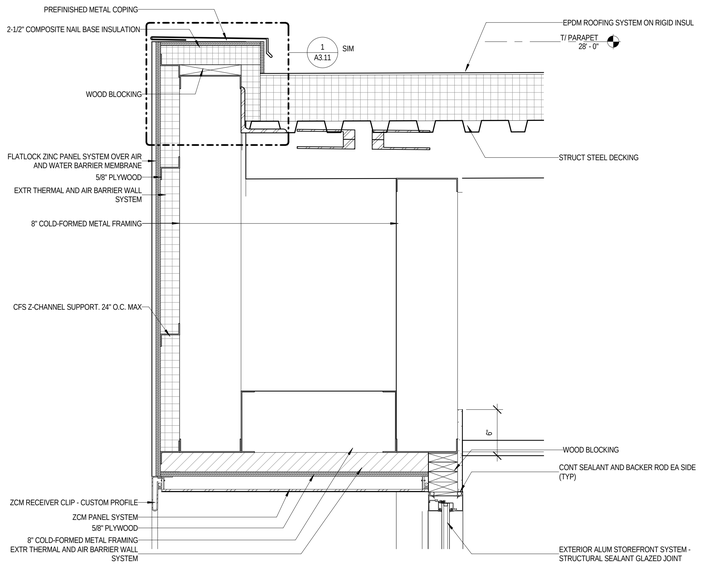
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

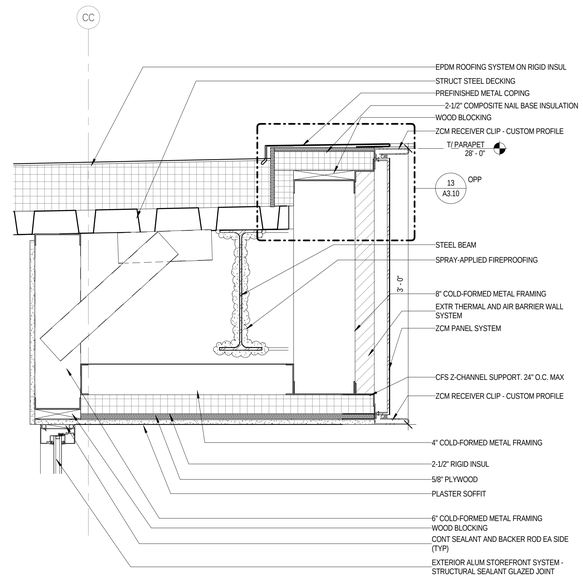
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.01

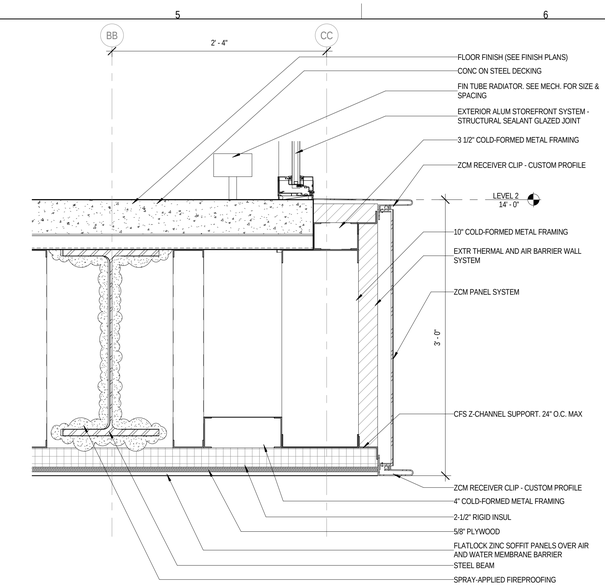
8/28/2015 4:17:44 PM



1 SECTION DETAIL
1 1/2" = 1'-0"



2 SECTION DETAIL
1 1/2" = 1'-0"



3 SECTION DETAIL
1 1/2" = 1'-0"

4 SECTION DETAIL
1 1/2" = 1'-0"

5 SECTION DETAIL
1 1/2" = 1'-0"

6 SECTION DETAIL
1 1/2" = 1'-0"

7 SECTION DETAIL
1 1/2" = 1'-0"

8 SECTION DETAIL
1 1/2" = 1'-0"

9 SECTION DETAIL
1 1/2" = 1'-0"

10 SECTION DETAIL 45
1 1/2" = 1'-0"

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

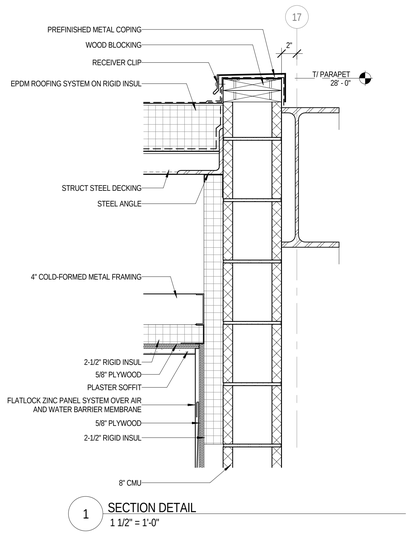
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

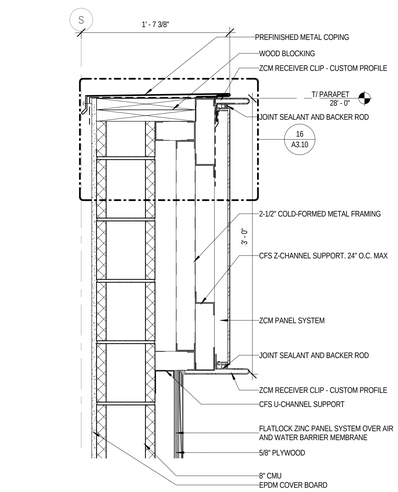
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.02

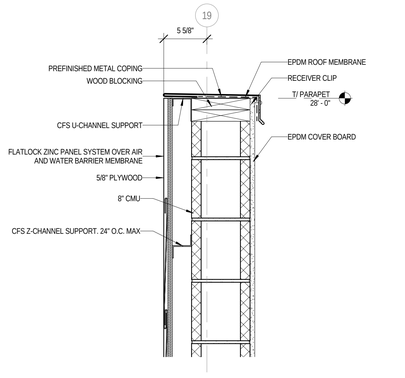
8/28/2015 4:17:52 PM



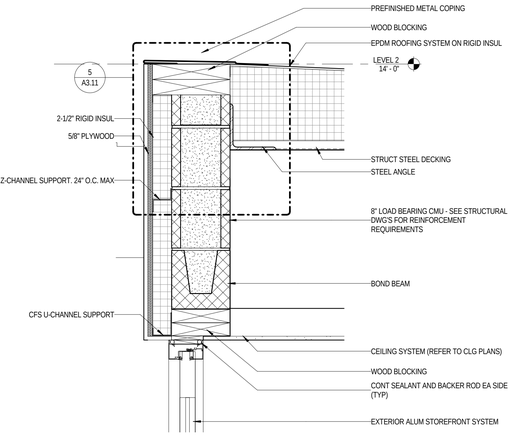
1 SECTION DETAIL
1 1/2" = 1'-0"



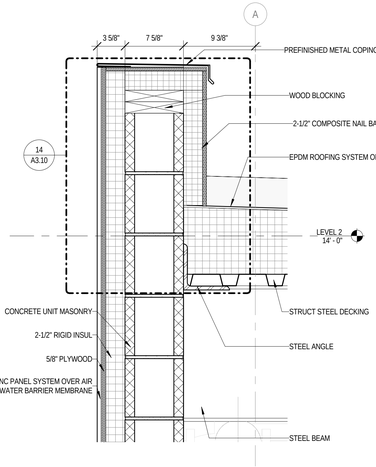
2 SECTION DETAIL
1 1/2" = 1'-0"



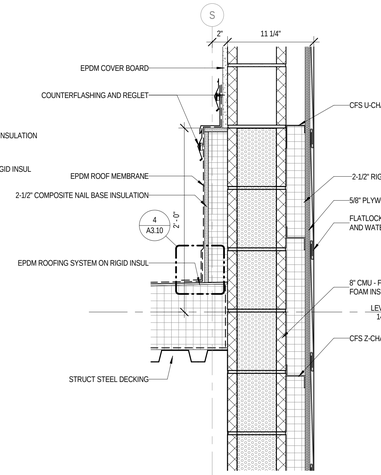
3 SECTION DETAIL
1 1/2" = 1'-0"



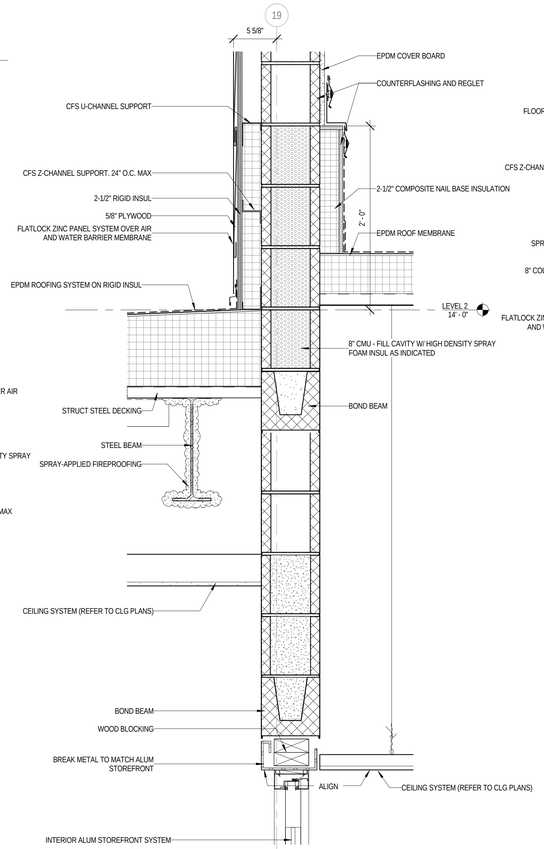
4 SECTION DETAIL
1 1/2" = 1'-0"



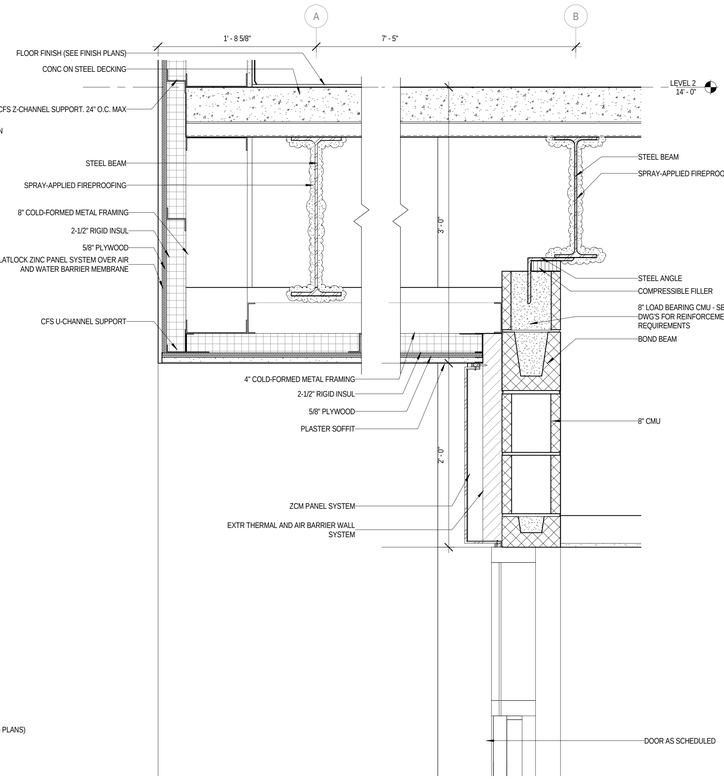
5 SECTION DETAIL
1 1/2" = 1'-0"



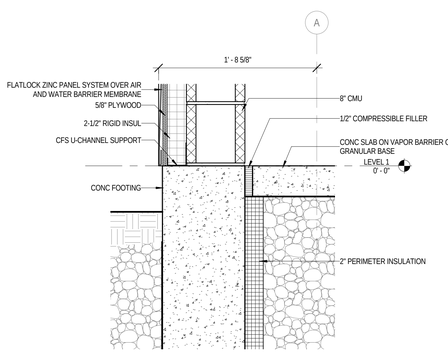
6 SECTION DETAIL
1 1/2" = 1'-0"



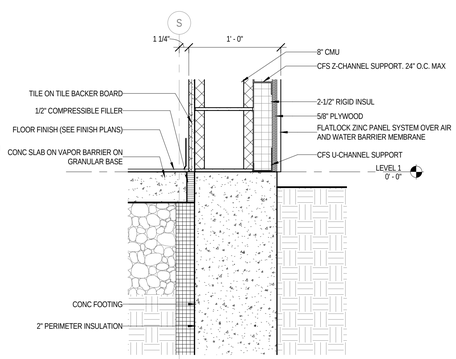
7 SECTION DETAIL
1 1/2" = 1'-0"



8 SECTION DETAIL
1 1/2" = 1'-0"



9 SECTION DETAIL
1 1/2" = 1'-0"



10 SECTION DETAIL
1 1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

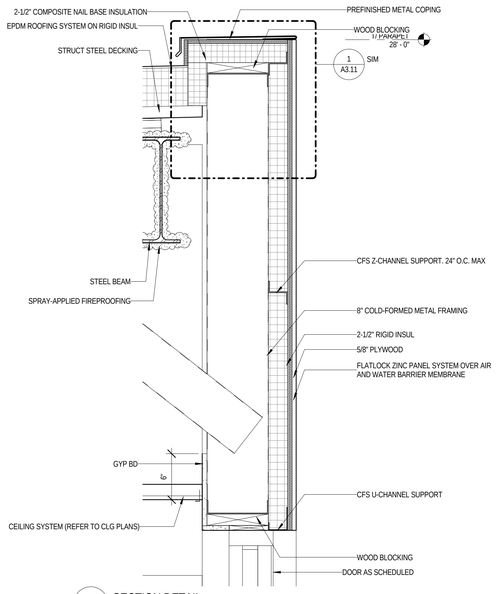
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

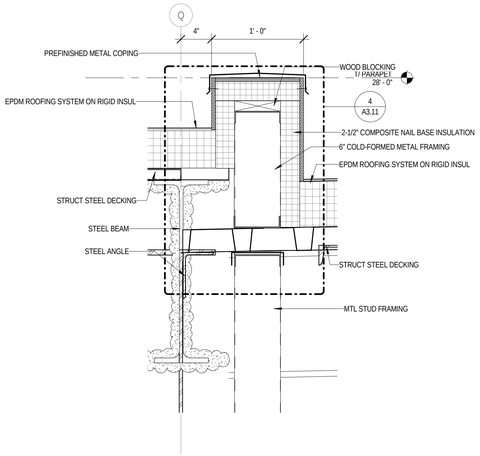
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.03

8/28/2015 4:18:01 PM



1 SECTION DETAIL
1 1/2" = 1'-0"



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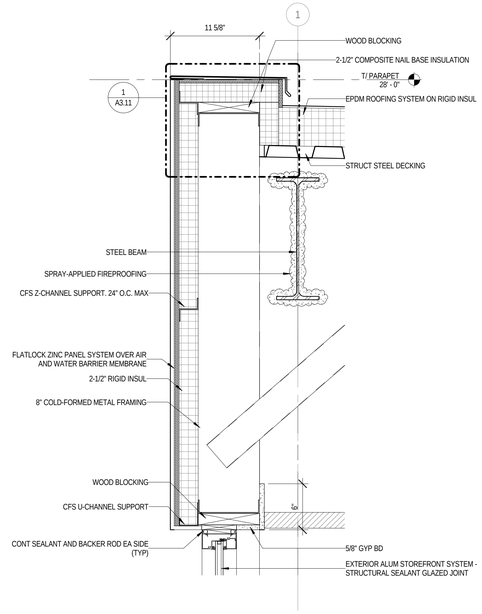
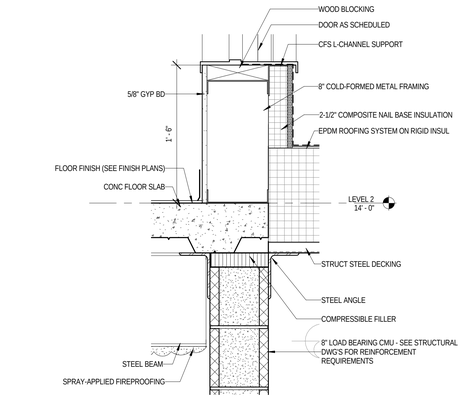
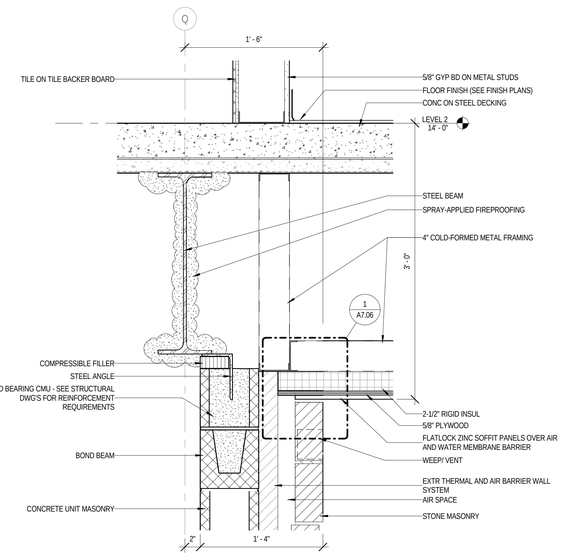
1 1/2" = 1'-0"



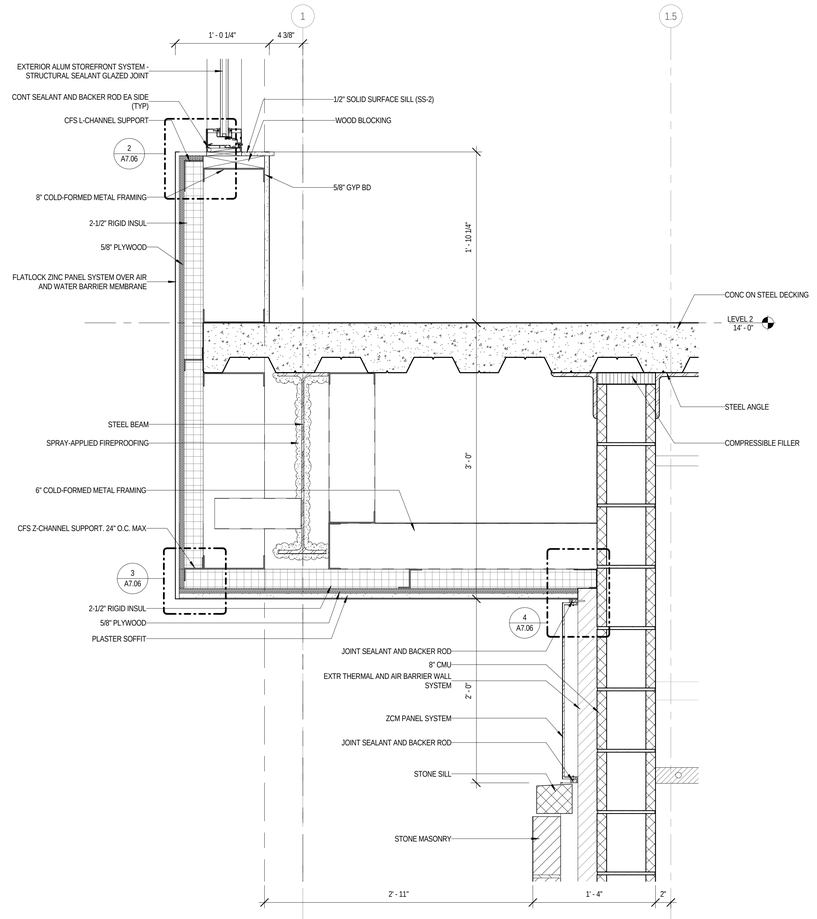
3 SECTION DETAIL
1 1/2" = 1'-0"



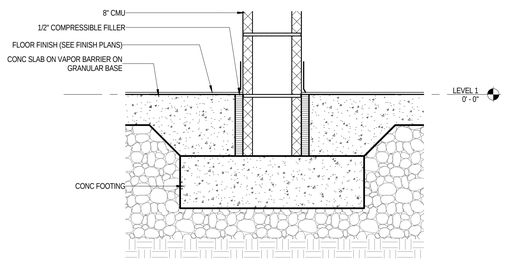
4 SECTION DETAIL
1 1/2" = 1'-0"



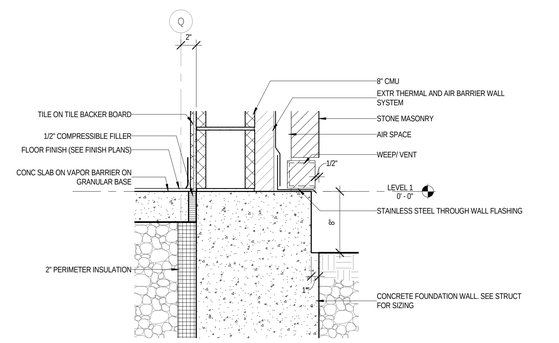
5 SECTION DETAIL
1 1/2" = 1'-0"



8 SECTION DETAIL
1 1/2" = 1'-0"



6 SECTION DETAIL
1 1/2" = 1'-0"



7 SECTION DETAIL
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

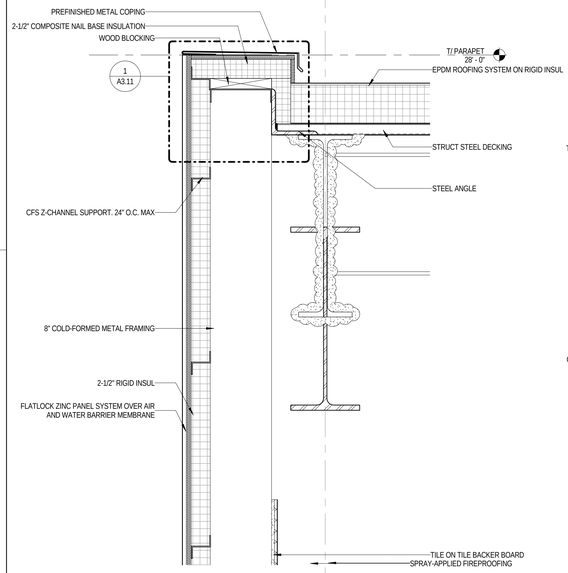
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

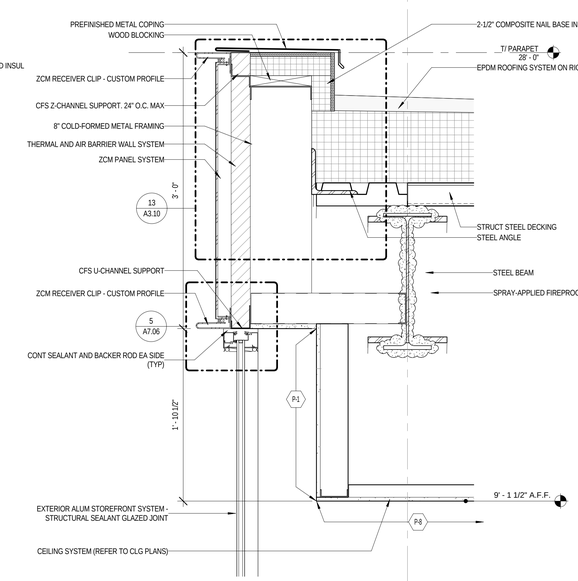
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.04

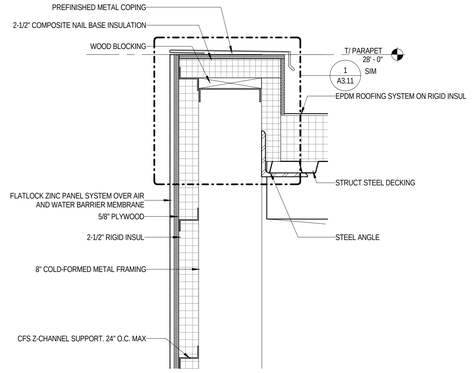
8/28/2015 4:18:08 PM



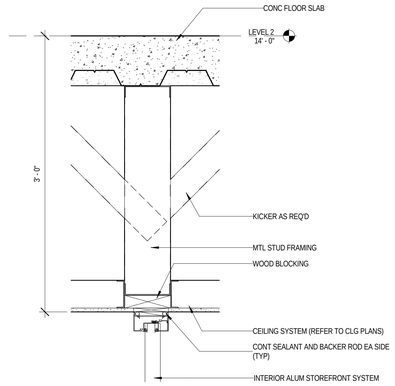
1 SECTION DETAIL
1 1/2" = 1'-0"



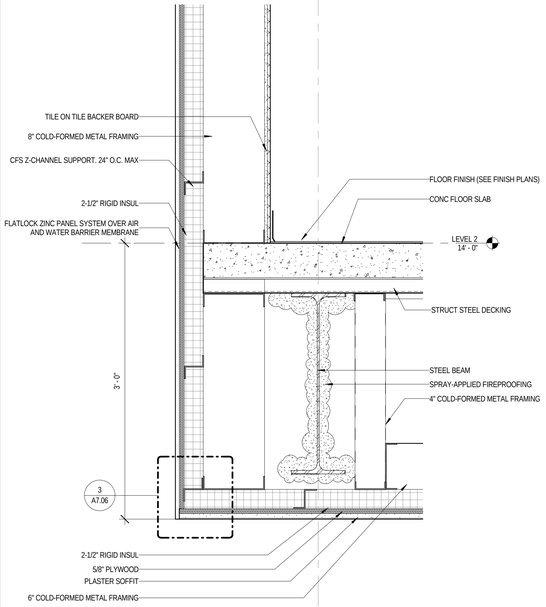
2 SECTION DETAIL
1 1/2" = 1'-0"



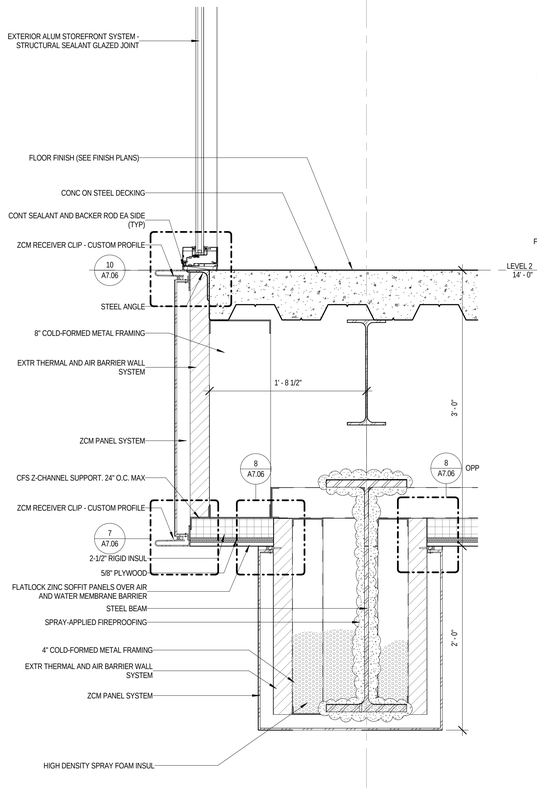
3 SECTION DETAIL
1 1/2" = 1'-0"



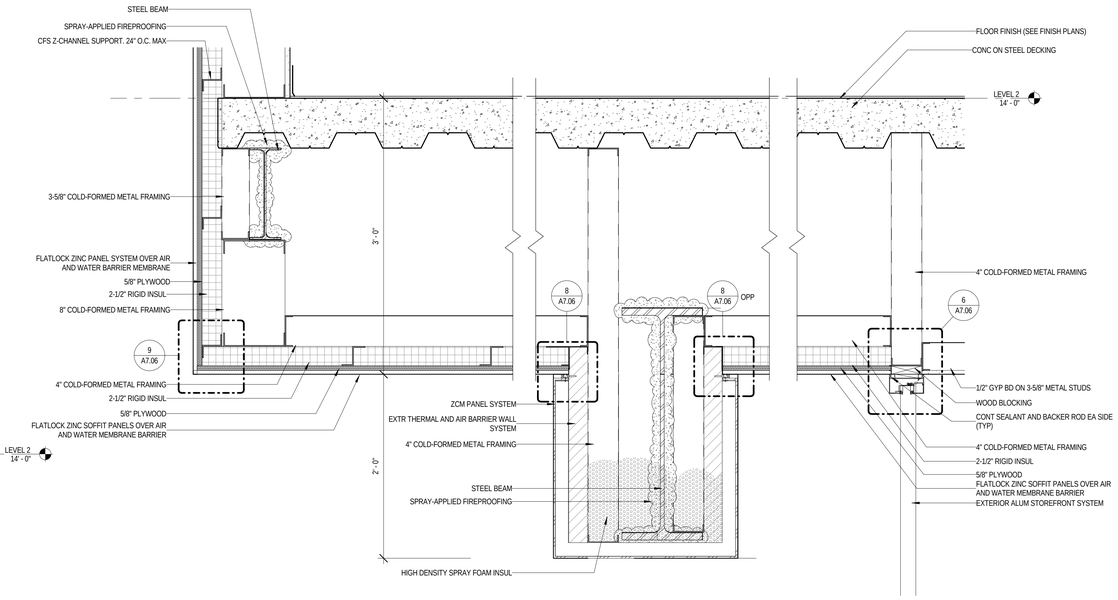
4 SECTION DETAIL
1 1/2" = 1'-0"



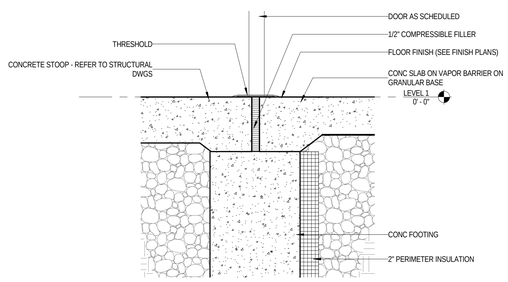
5 SECTION DETAIL
1 1/2" = 1'-0"



6 SECTION DETAIL
1 1/2" = 1'-0"



7 SECTION DETAIL
1 1/2" = 1'-0"



8 SECTION DETAIL
1 1/2" = 1'-0"

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MULTI-PURPOSE FACILITY

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DKA PROJECT NO: 14-004

KEY PLAN:

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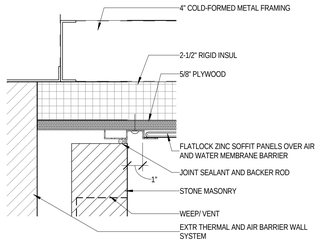
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

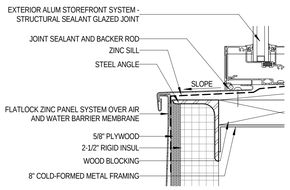
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.05

8/28/2015 4:18:17 PM



1 ENLARGED SECTION DETAIL
3" = 1'-0"



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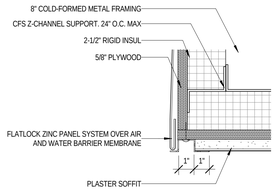
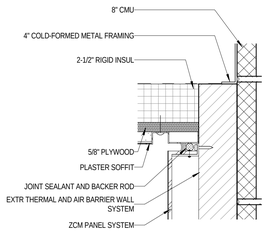


3 ENLARGED SECTION DETAIL
3" = 1'-0"



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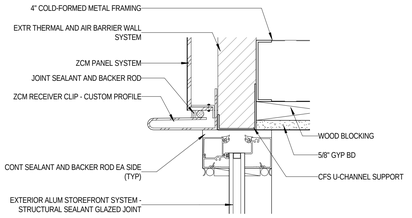

5 ENLARGED SECTION DETAIL
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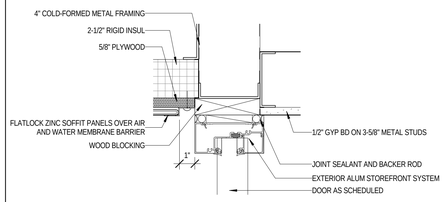
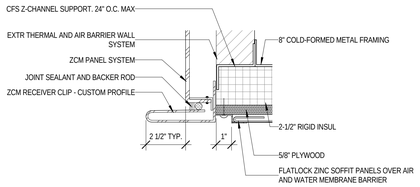
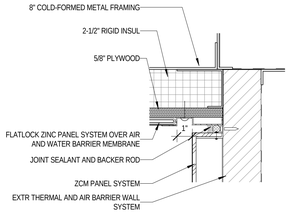


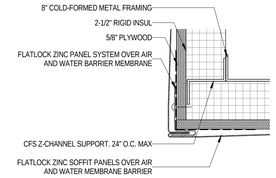
6 ENLARGED SECTION DETAIL
3" = 1'-0"



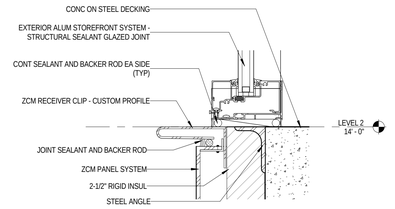
7 ENLARGED SECTION DETAIL
3" = 1'-0"



8 ENLARGED SECTION DETAIL
3" = 1'-0"



9 ENLARGED SECTION DETAIL
3" = 1'-0"



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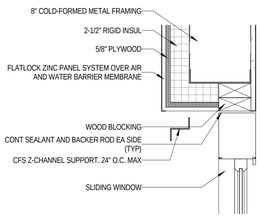
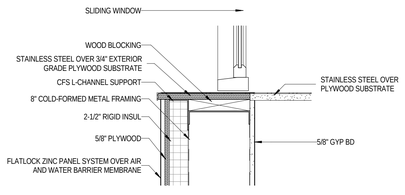
3" = 1'-0"



11 SECTION DETAIL
1 1/2" = 1'-0"



12 SECTION DETAIL
1 1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

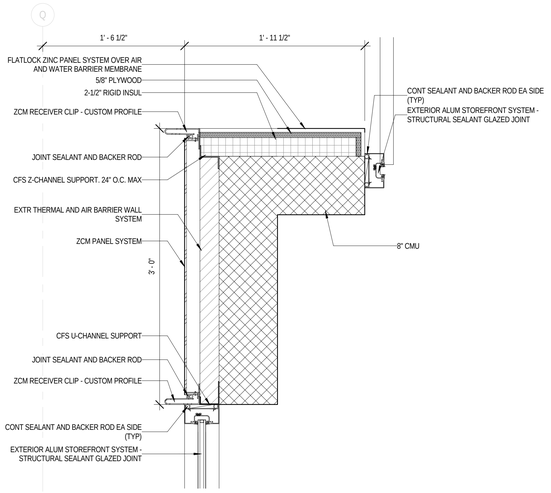
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

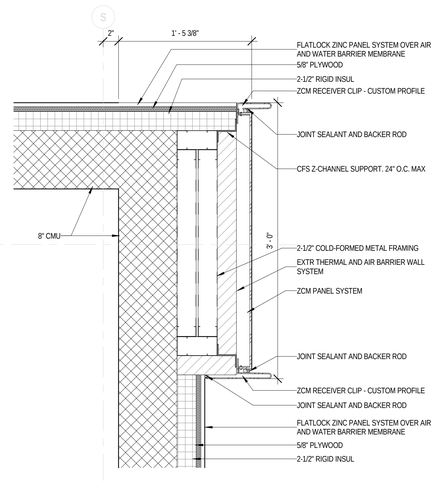
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.06

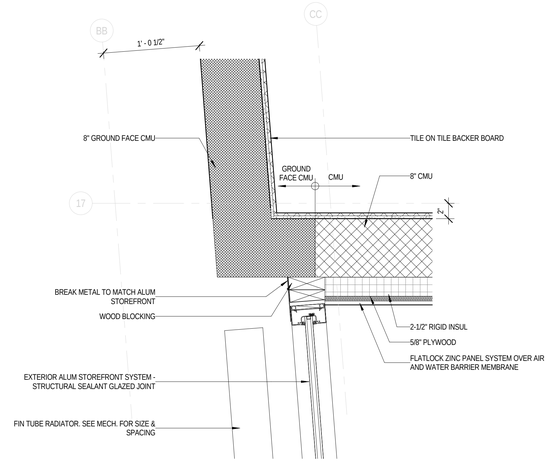
8/28/2015 4:18:24 PM



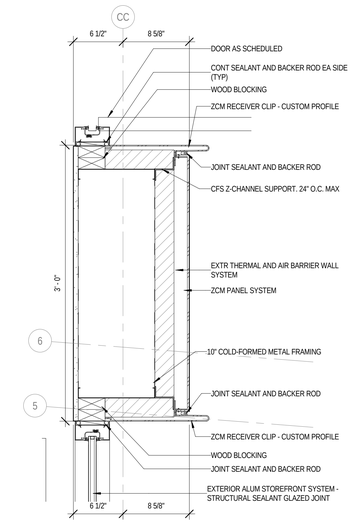
1 PLAN DETAIL
1 1/2" = 1'-0"



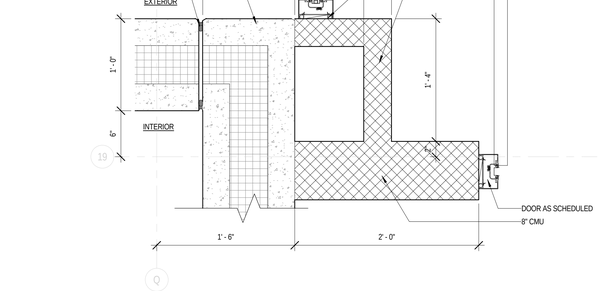
2 PLAN DETAIL
1 1/2" = 1'-0"



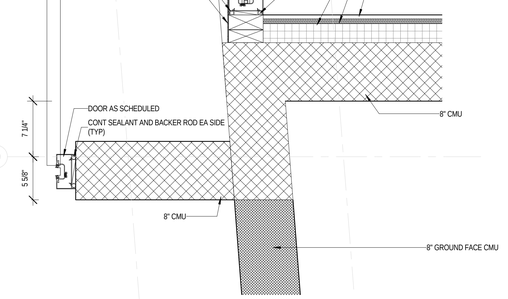
3 PLAN DETAIL
1 1/2" = 1'-0"



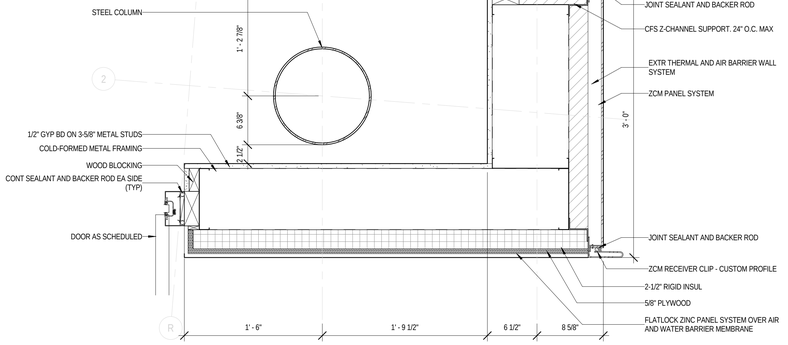
4 PLAN DETAIL
1 1/2" = 1'-0"



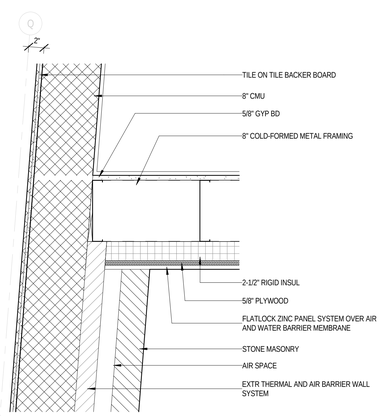
5 PLAN DETAIL
1 1/2" = 1'-0"



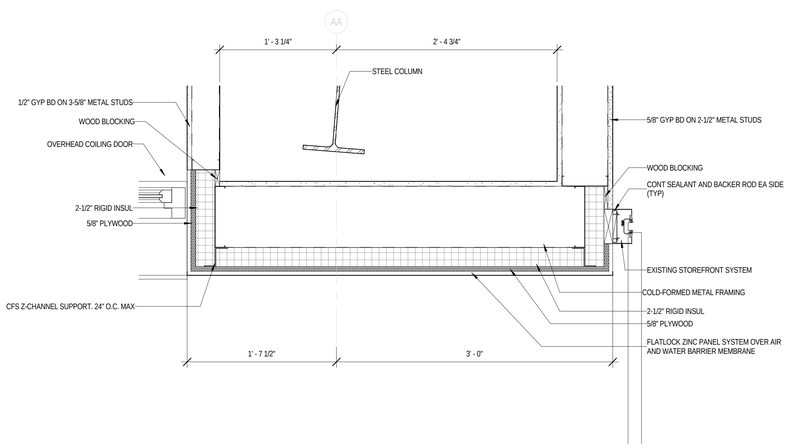
6 PLAN DETAIL
1 1/2" = 1'-0"



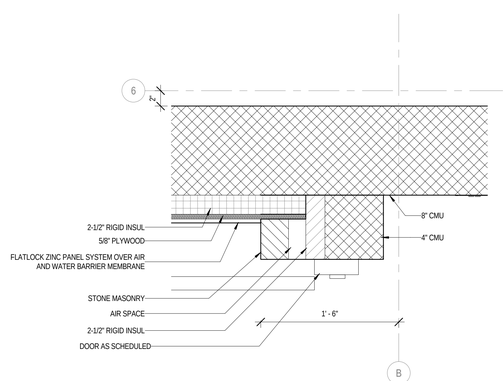
7 PLAN DETAIL
1 1/2" = 1'-0"



8 PLAN DETAIL
1 1/2" = 1'-0"



9 PLAN DETAIL
1 1/2" = 1'-0"



10 PLAN DETAIL
1 1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

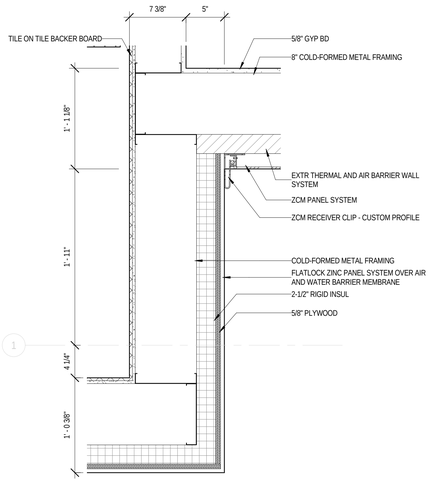
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

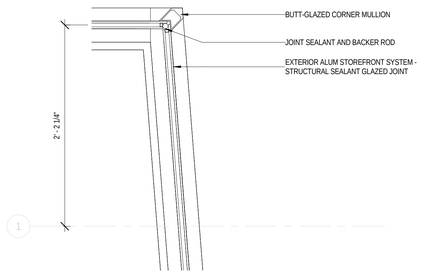
SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.51

8/28/2015 4:18:30 PM



1 PLAN DETAIL
1 1/2" = 1'-0"



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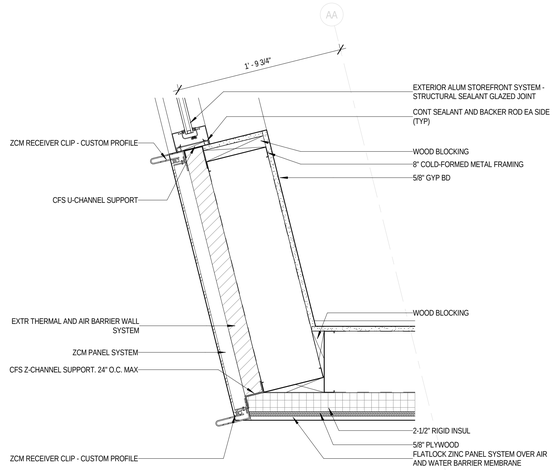
1 1/2" = 1'-0"



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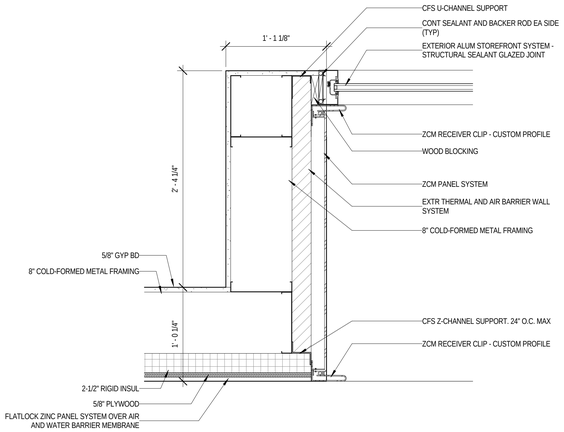
1 1/2" = 1'-0"



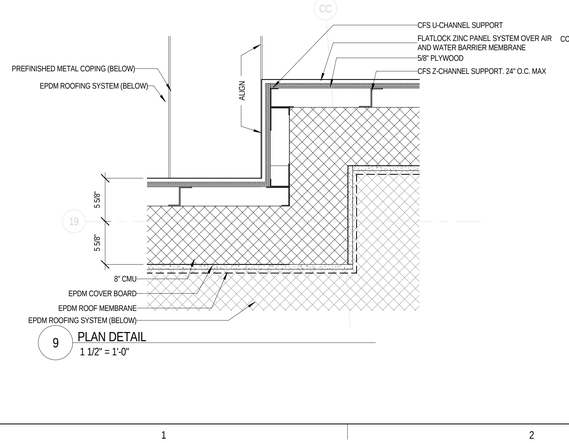
4 PLAN DETAIL
1 1/2" = 1'-0"

5 PLAN DETAIL
1 1/2" = 1'-0"

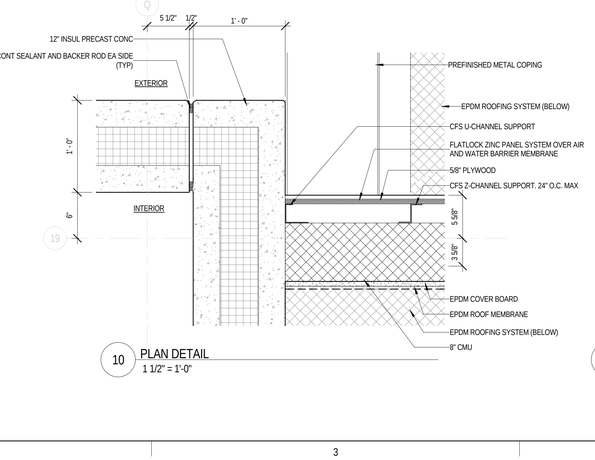
6 PLAN DETAIL
1 1/2" = 1'-0"

7 PLAN DETAIL
1 1/2" = 1'-0"

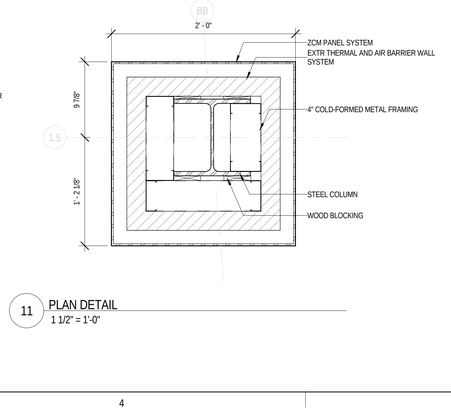
8 PLAN DETAIL
1 1/2" = 1'-0"



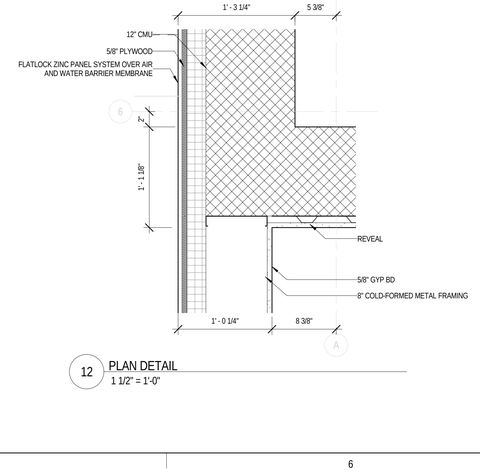
9 PLAN DETAIL
1 1/2" = 1'-0"



10 PLAN DETAIL
1 1/2" = 1'-0"



11 PLAN DETAIL
1 1/2" = 1'-0"



12 PLAN DETAIL
1 1/2" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

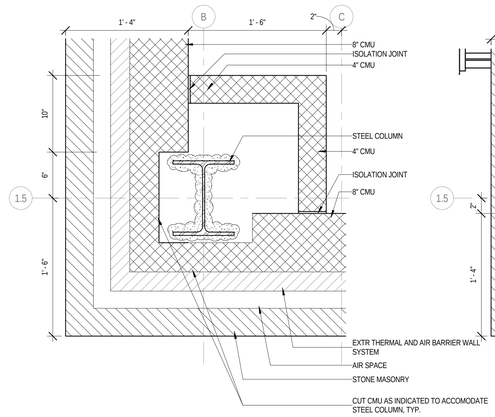
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

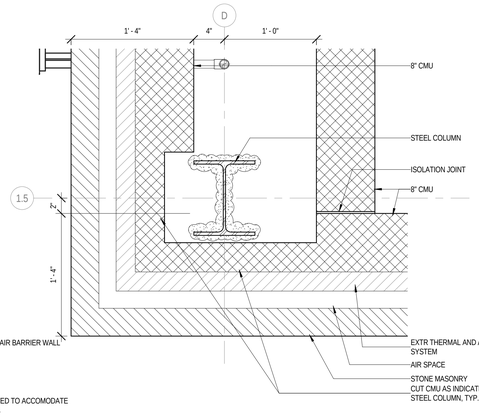
SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.52

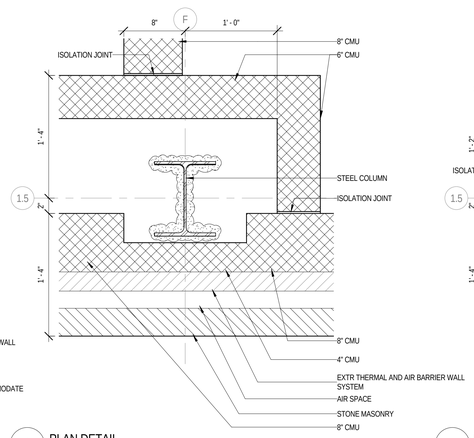
8/28/2015 4:18:37 PM



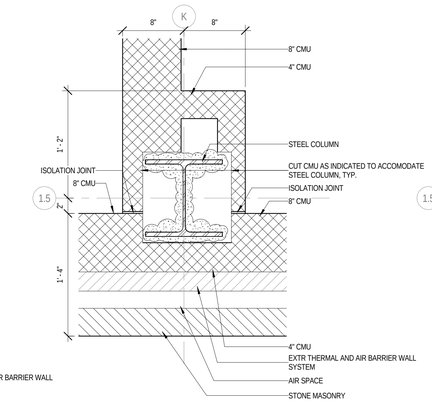
1 PLAN DETAIL
1 1/2" = 1'-0"



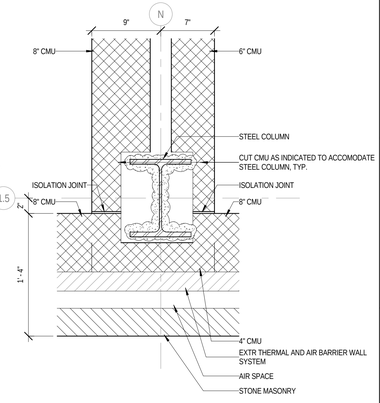
2 PLAN DETAIL
1 1/2" = 1'-0"



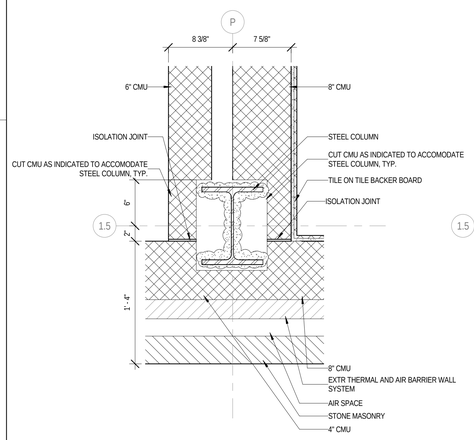
3 PLAN DETAIL
1 1/2" = 1'-0"



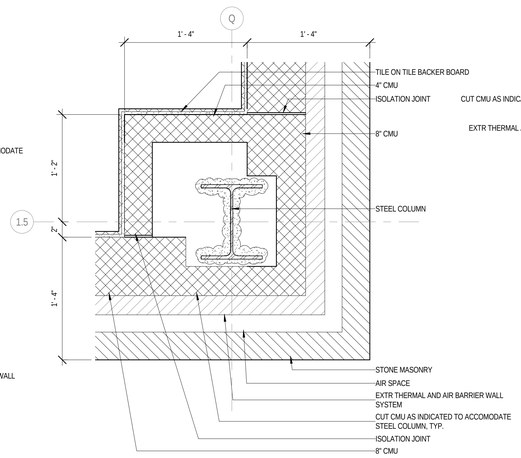
4 PLAN DETAIL
1 1/2" = 1'-0"



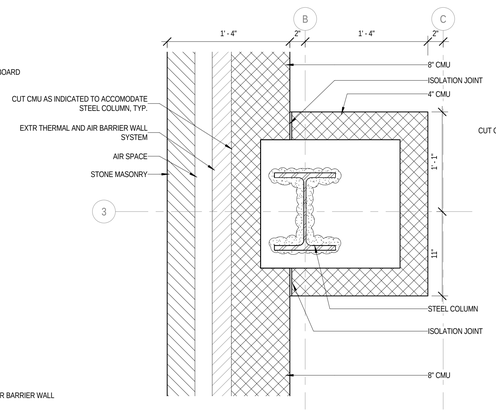
5 PLAN DETAIL
1 1/2" = 1'-0"



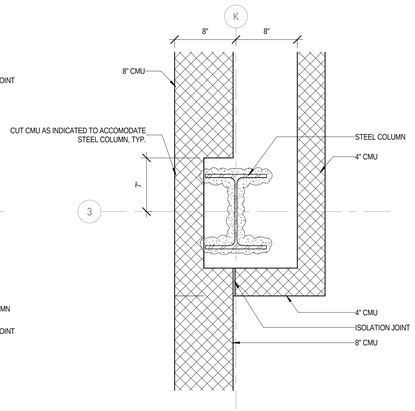
6 PLAN DETAIL
1 1/2" = 1'-0"



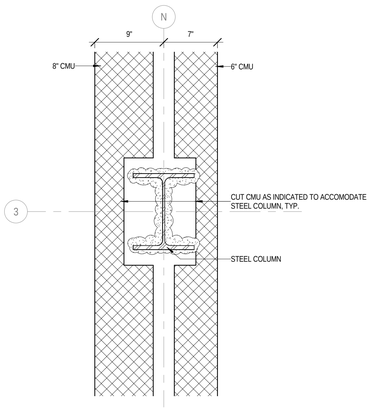
7 PLAN DETAIL
1 1/2" = 1'-0"



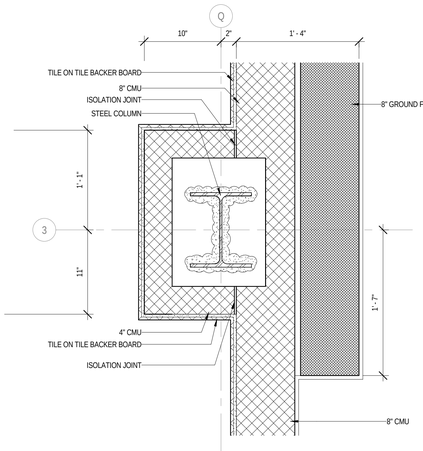
8 PLAN DETAIL
1 1/2" = 1'-0"



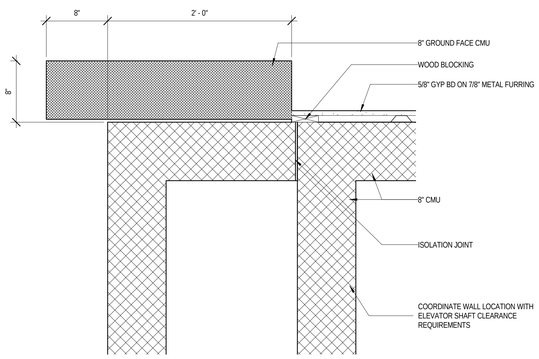
9 PLAN DETAIL
1 1/2" = 1'-0"



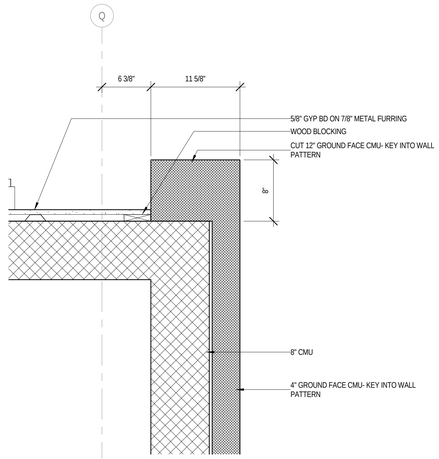
10 PLAN DETAIL
1 1/2" = 1'-0"



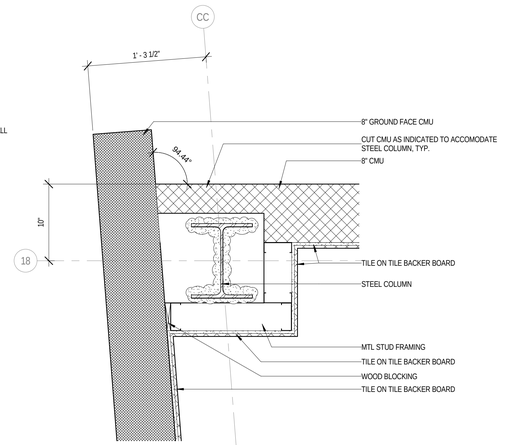
11 PLAN DETAIL
1 1/2" = 1'-0"



12 PLAN DETAIL
1 1/2" = 1'-0"



13 PLAN DETAIL
1 1/2" = 1'-0"



14 PLAN DETAIL
1 1/2" = 1'-0"

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RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DR.
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

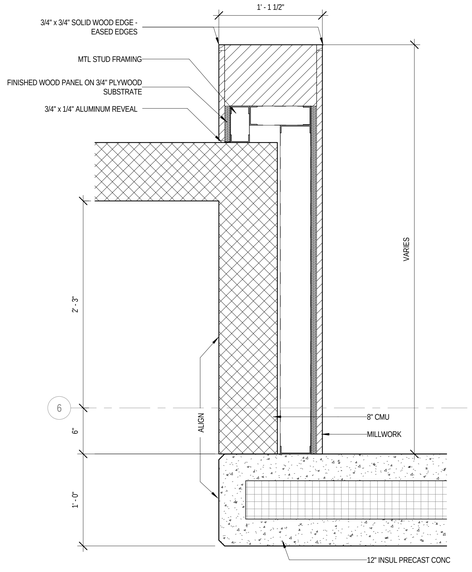
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

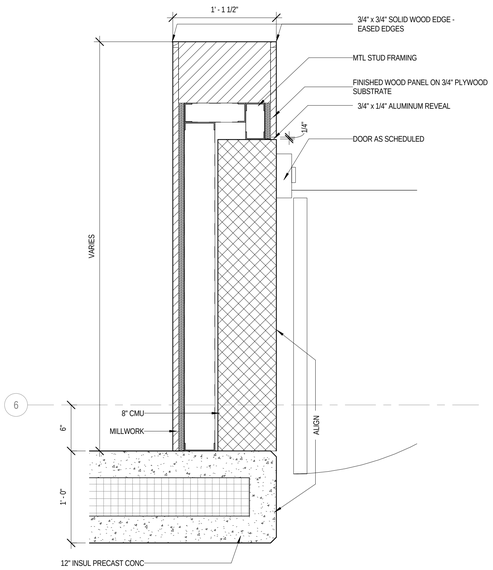
SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.53

8/28/2015 4:18:46 PM



1 PLAN DETAIL
1 1/2" = 1'-0"



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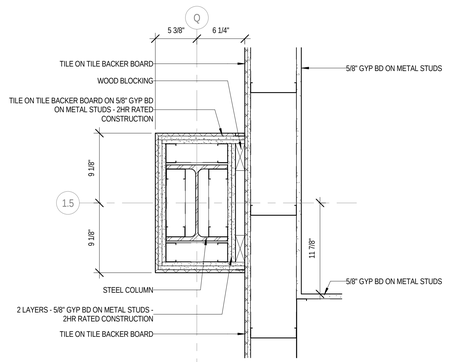
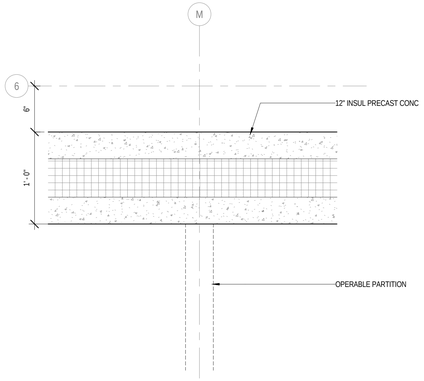
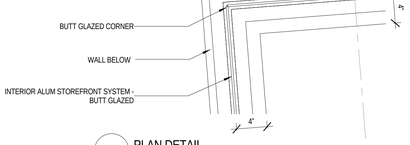
1 1/2" = 1'-0"



3 PLAN DETAIL
1 1/2" = 1'-0"

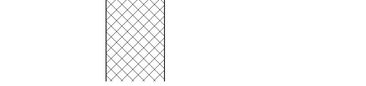


4 PLAN DETAIL
1 1/2" = 1'-0"

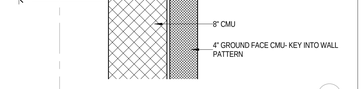


5 PLAN DETAIL
1 1/2" = 1'-0"

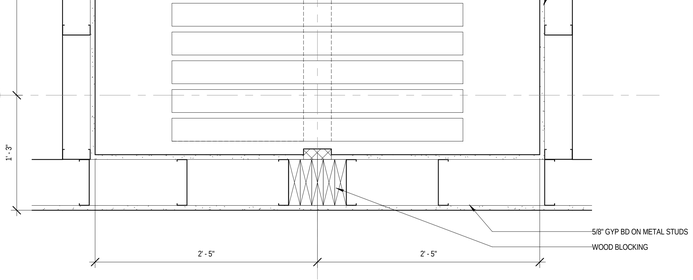
6 PLAN DETAIL
1 1/2" = 1'-0"



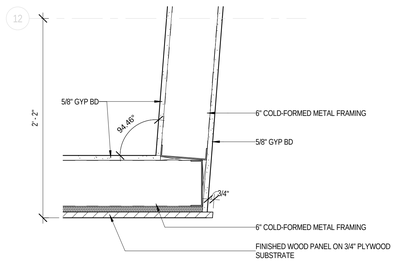
7 PLAN DETAIL
1 1/2" = 1'-0"



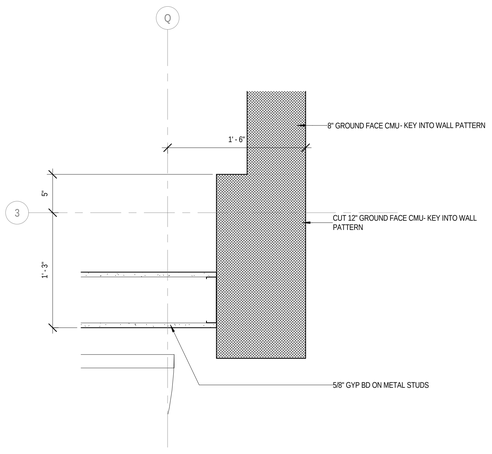
8 PLAN DETAIL
1 1/2" = 1'-0"



9 PLAN DETAIL
1 1/2" = 1'-0"



10 PLAN DETAIL
1 1/2" = 1'-0"



11 PLAN DETAIL
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.54

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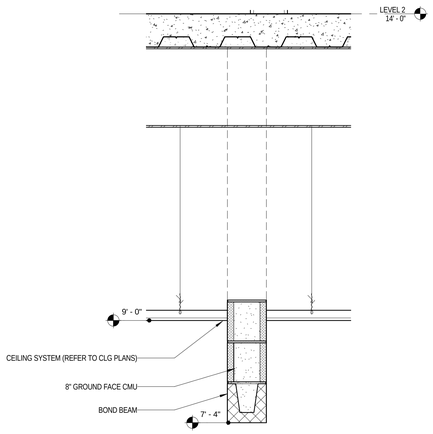

1 SECTION DETAIL - CEILING
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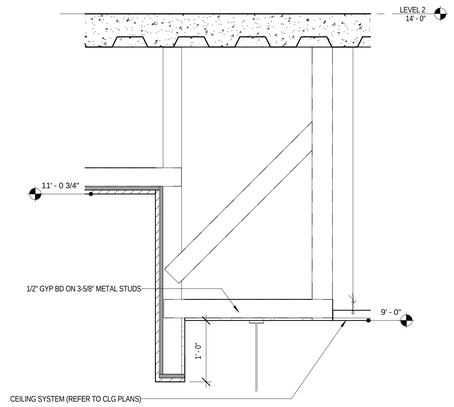

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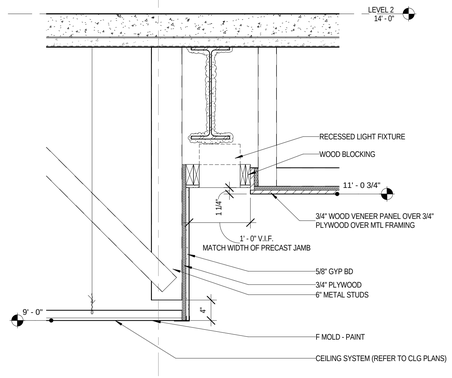

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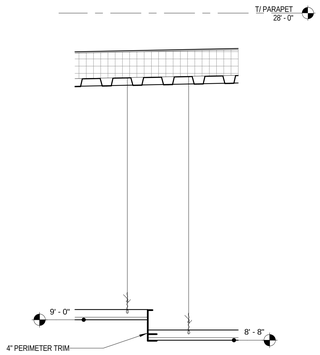

4 SECTION DETAIL - CEILING
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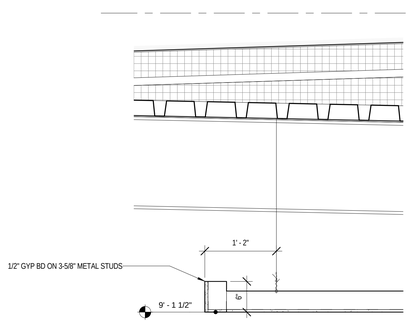

5 SECTION DETAIL - CEILING
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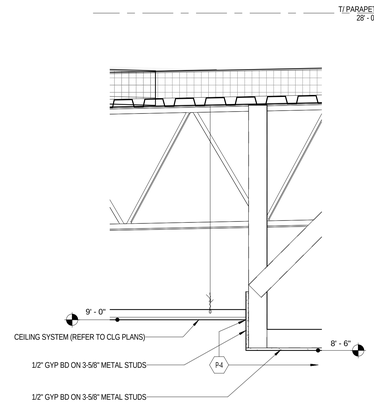
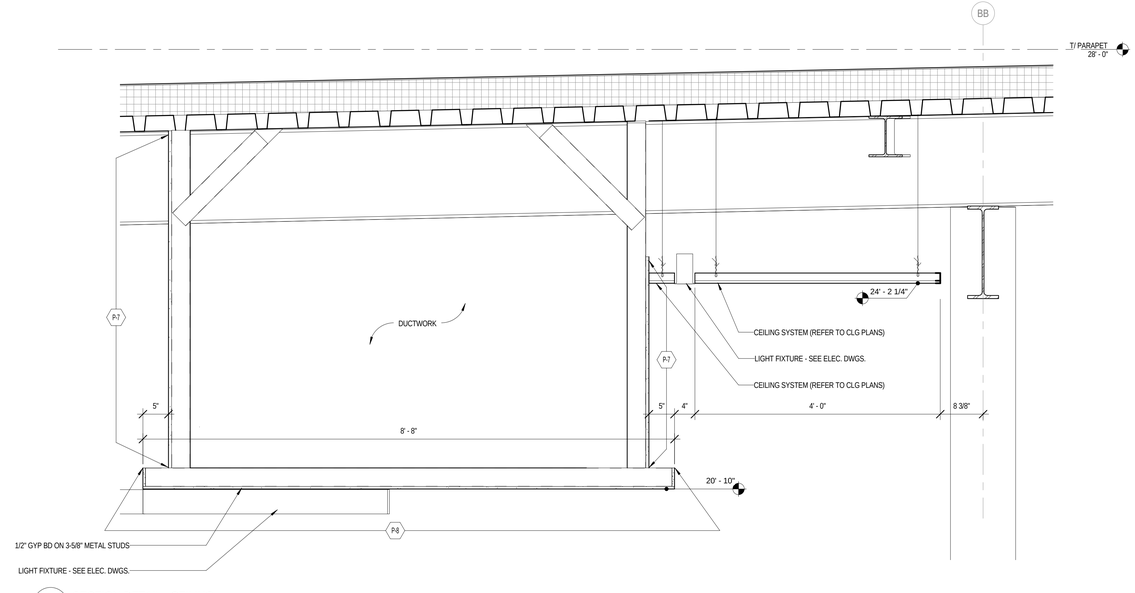


6 SECTION DETAIL - CEILING
1" = 1'-0"



7 SECTION DETAIL - CEILING
1" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

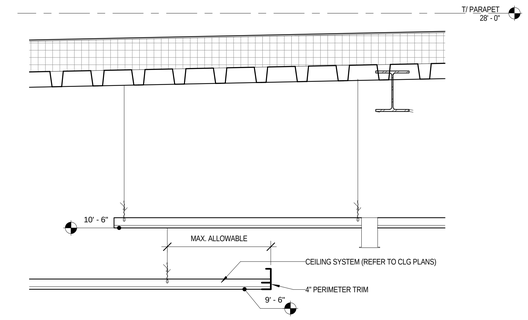
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

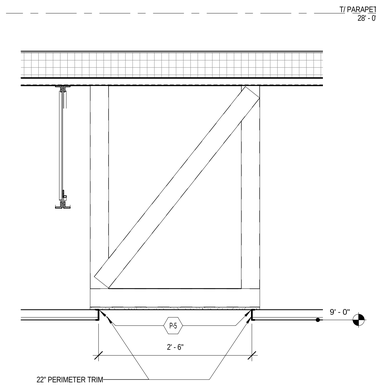
SHEET TITLE:
CEILING DETAILS

SHEET NUMBER:
A7.91

8/28/2015 4:18:57 PM



1 SECTION DETAIL - CEILING
1" = 1'-0"



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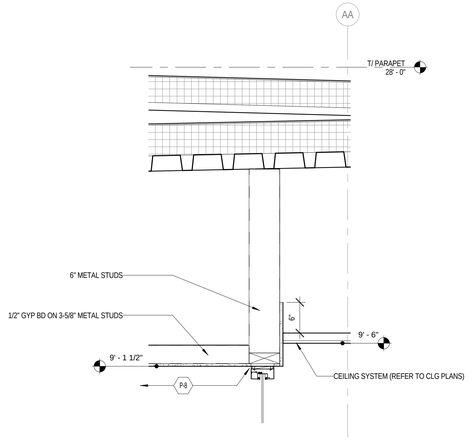

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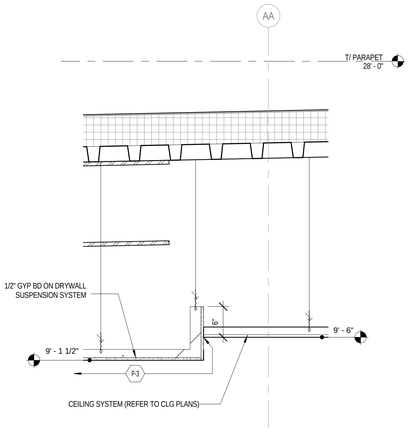

4 SECTION DETAIL - CEILING
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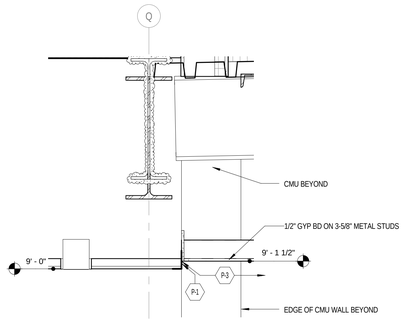

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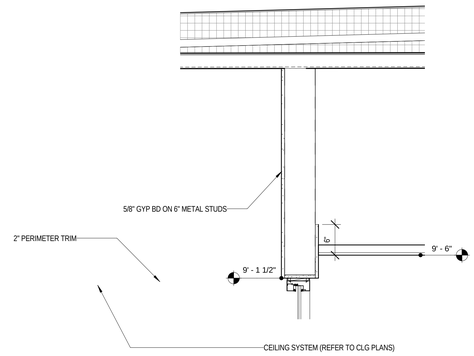

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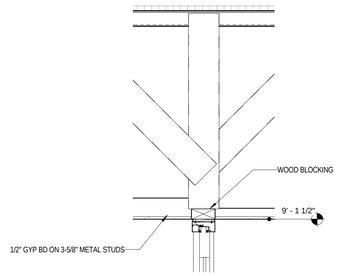

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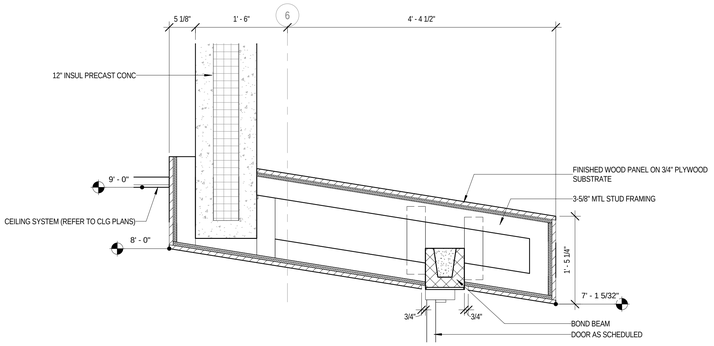

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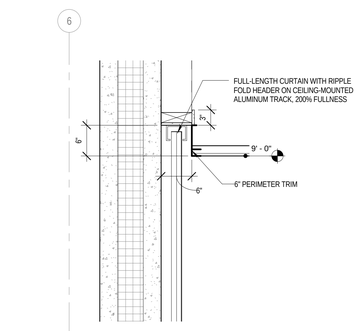

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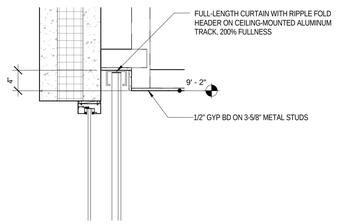

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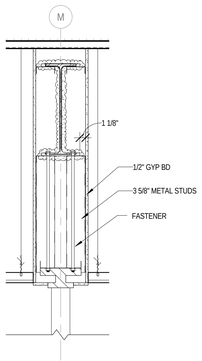

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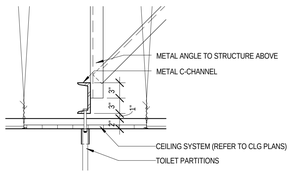

12 SECTION DETAIL - CEILING
1" = 1'-0"

ARCHITECT OF RECORD
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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

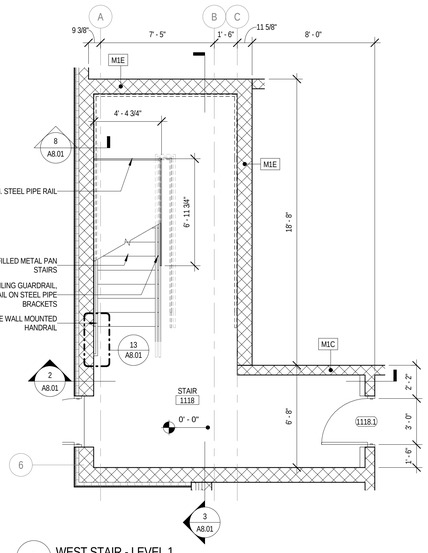
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

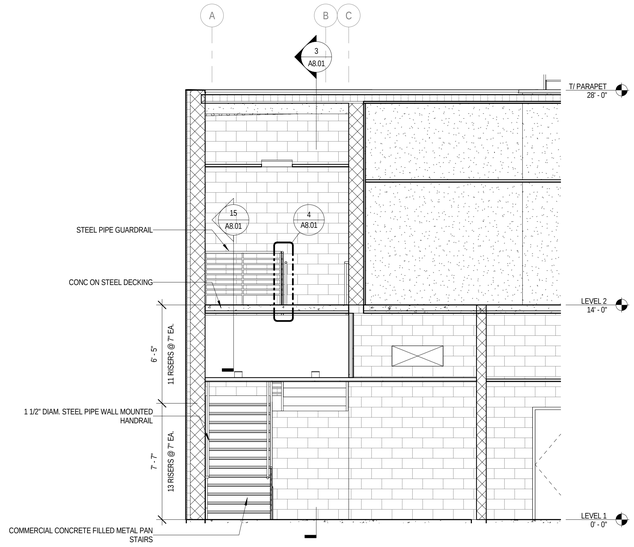
SHEET TITLE:
CEILING DETAILS

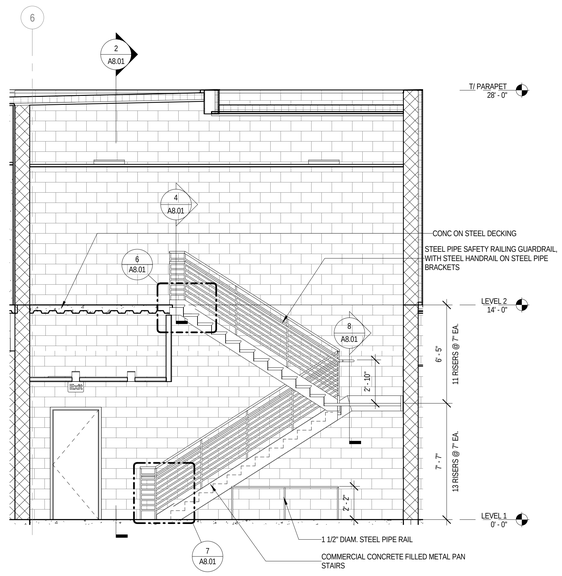
SHEET NUMBER:
A7.92

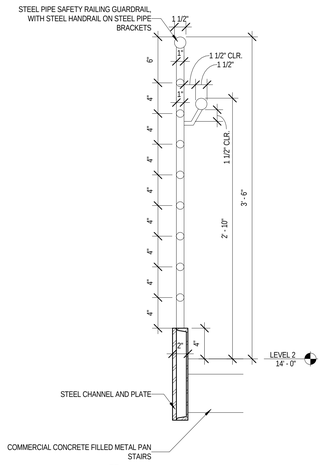
8/28/2015 4:19:03 PM



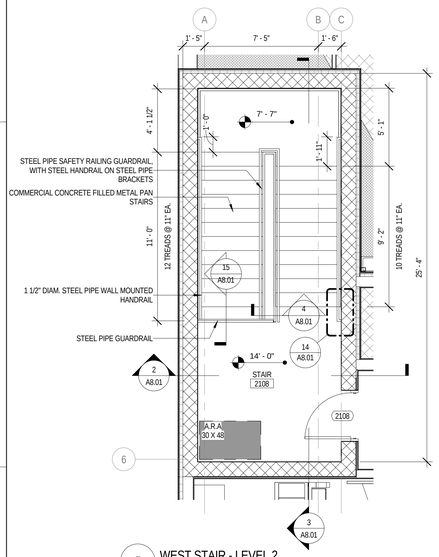
1 WEST STAIR - LEVEL 1
1/4" = 1'-0"



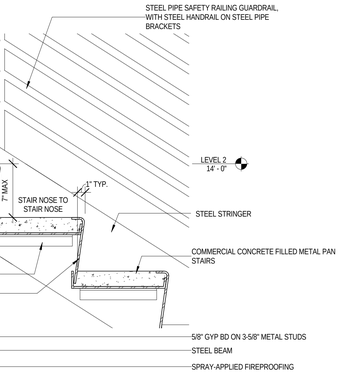




4 STAIR DETAIL
1 1/2" = 1'-0"

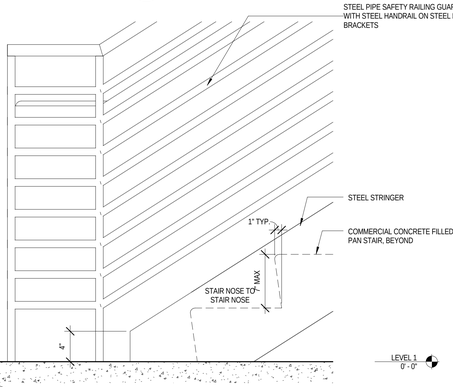


5 WEST STAIR - LEVEL 2
1/4" = 1'-0"



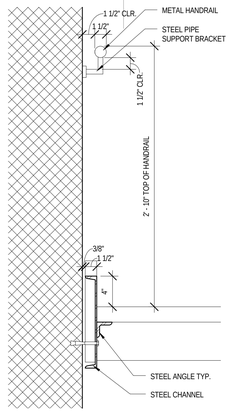
6 STAIR DETAIL
1 1/2" = 1'-0"

2 WEST STAIR - SECTION
1/4" = 1'-0"

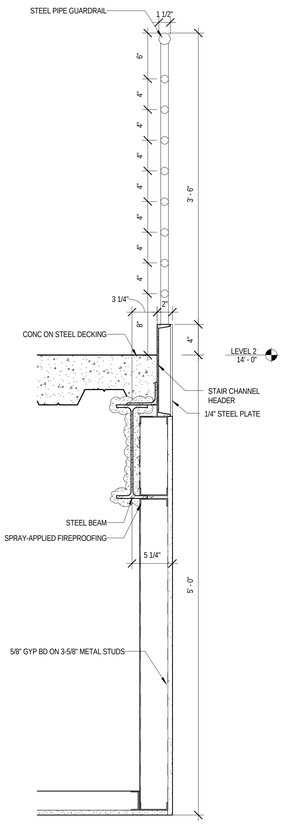


7 STAIR DETAIL
1 1/2" = 1'-0"

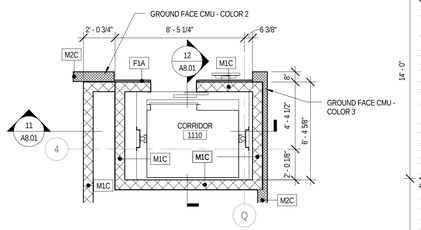
3 WEST STAIR - SECTION
1/4" = 1'-0"



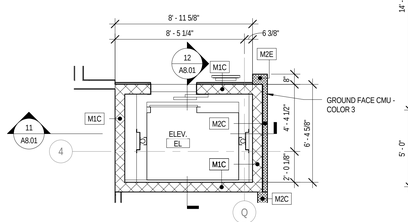
8 STAIR DETAIL - WALL MOUNTED HANDRAIL
1 1/2" = 1'-0"



15 STAIR DETAIL - PIPE GUARDRAIL
1 1/2" = 1'-0"



9 ELEVATOR PLAN - LEVEL 1
1/4" = 1'-0"



10 ELEVATOR PLAN - LEVEL 2
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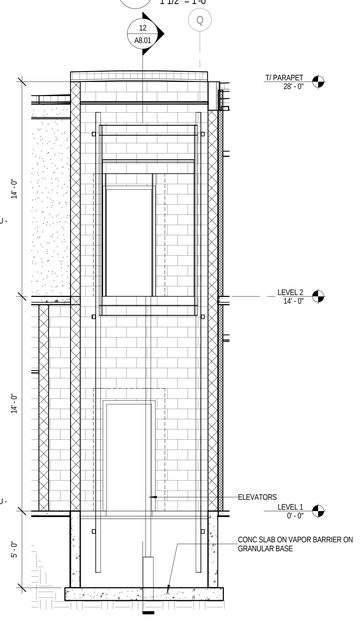
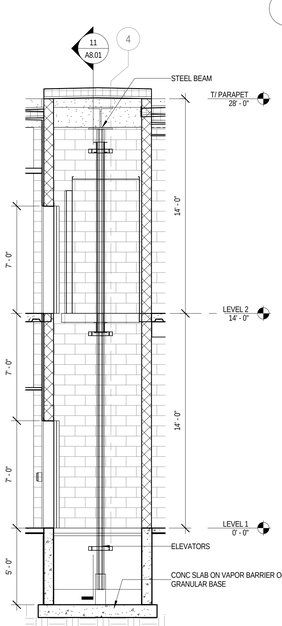
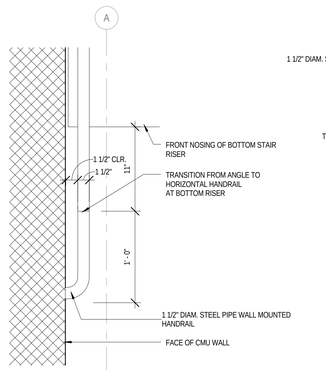


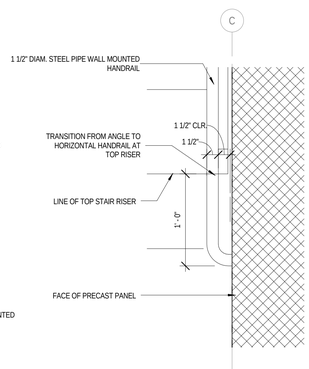
11 ELEVATOR SECTION
1/4" = 1'-0"



12 ELEVATOR SECTION
1/4" = 1'-0"



13 HANDRAIL - BOTTOM OF STAIR
1 1/2" = 1'-0"



14 HANDRAIL - TOP OF STAIR
1 1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ENLARGED STAIR PLANS AND SECTIONS

SHEET NUMBER:
A8.01

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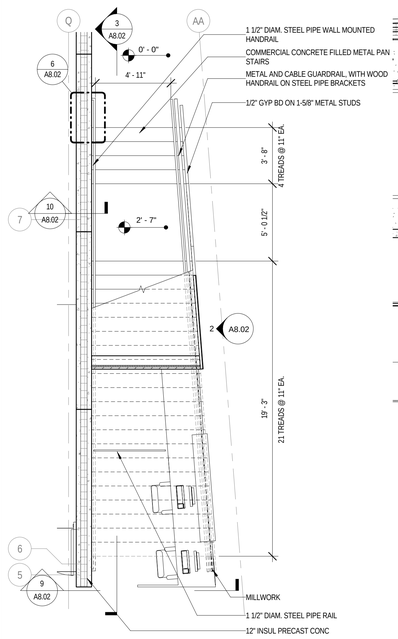
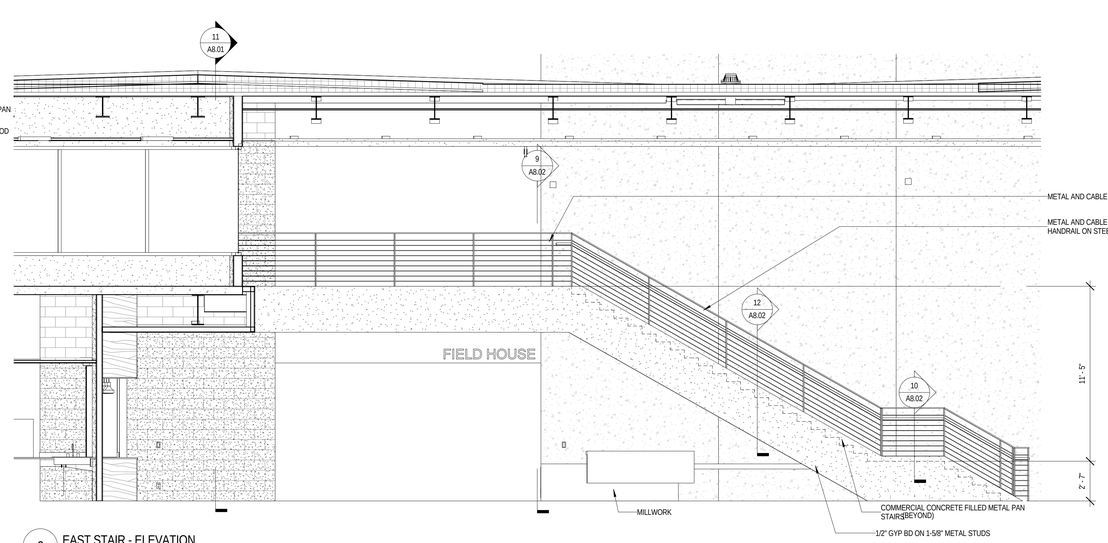
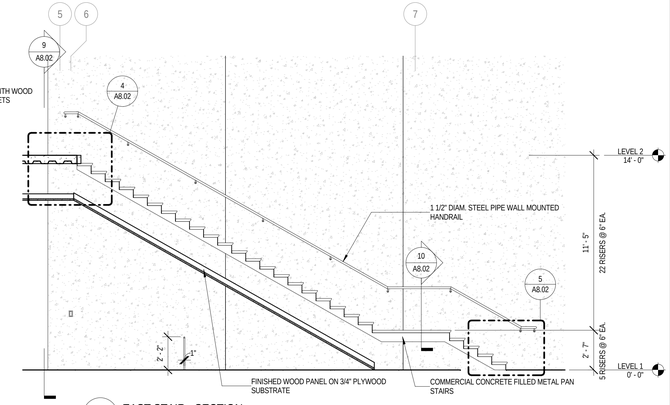


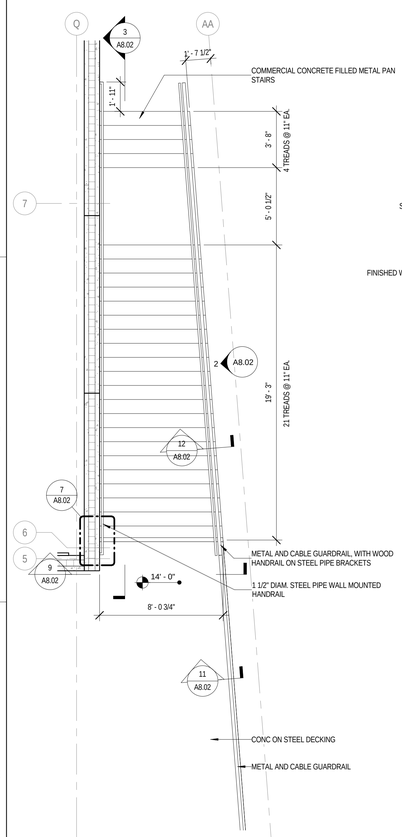
1 EAST STAIR - LEVEL 1
1/4" = 1'-0"



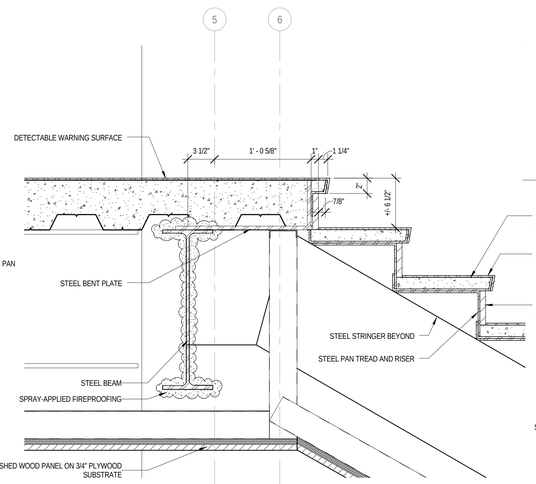
2 EAST STAIR - ELEVATION
1/4" = 1'-0"



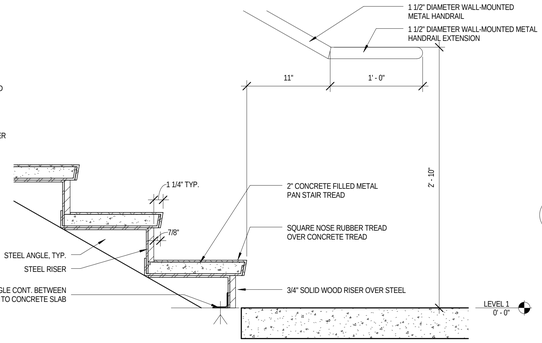
3 EAST STAIR - SECTION
1/4" = 1'-0"



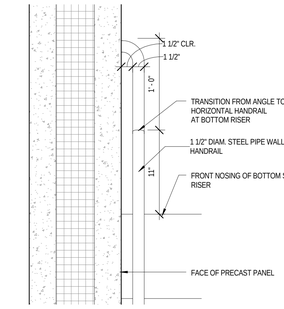
8 EAST STAIR - LEVEL 2
1/4" = 1'-0"



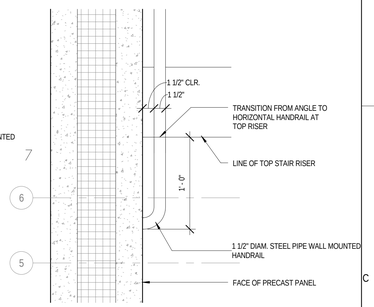
4 STAIR DETAIL
1 1/2" = 1'-0"



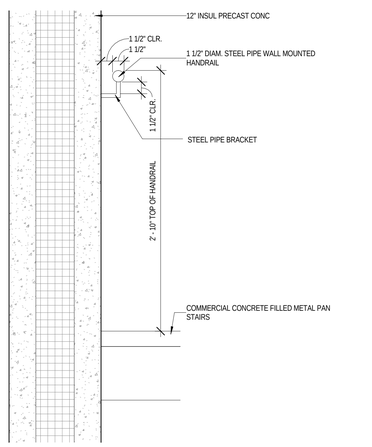
5 STAIR DETAIL
1 1/2" = 1'-0"



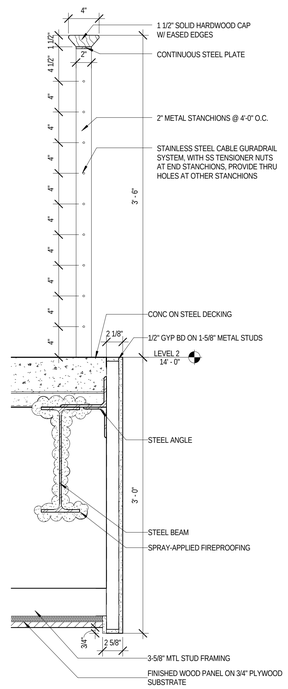
6 EAST STAIR - HANDRAIL BOTTOM OF STAIR
1 1/2" = 1'-0"



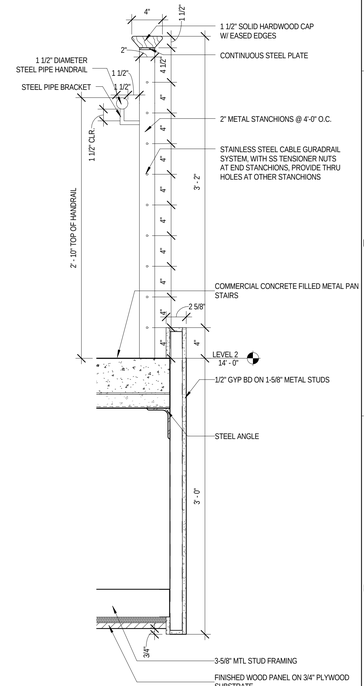
7 EAST STAIR - HANDRAIL TOP OF STAIR
1 1/2" = 1'-0"



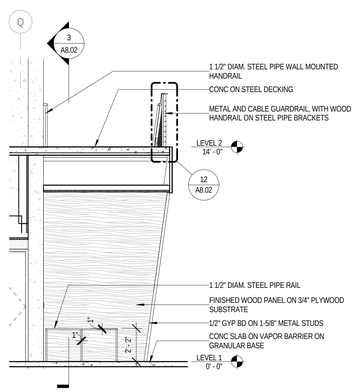
10 STAIR DETAIL
1 1/2" = 1'-0"



11 STAIR DETAIL
1 1/2" = 1'-0"



12 STAIR DETAIL
1 1/2" = 1'-0"



9 EAST STAIR - SECTION
1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ENLARGED STAIR PLANS AND SECTIONS

SHEET NUMBER:
A8.02

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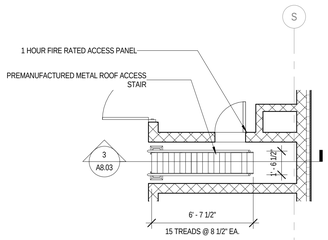
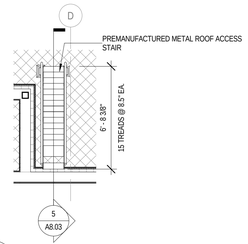
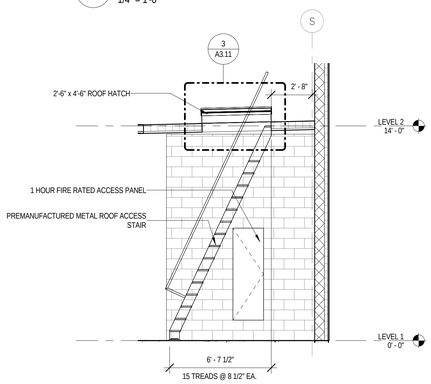


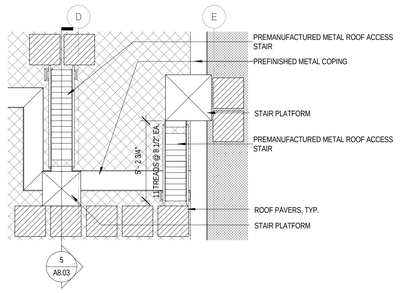
1 ROOF ACCESS STAIR A - LEVEL ONE
1/4" = 1'-0"



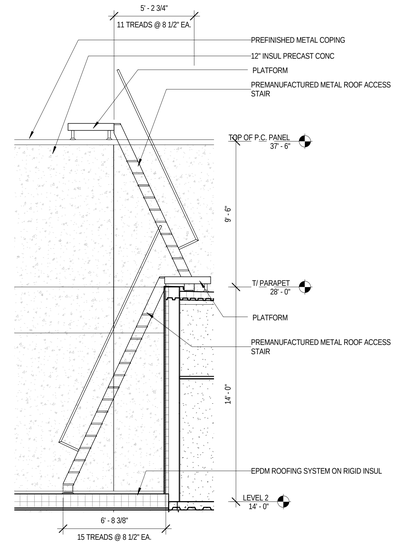
2 ROOF ACCESS STAIR B - LEVEL TWO
1/4" = 1'-0"



3 STAIR SECTION - ROOF ACCESS STAIR A
1/4" = 1'-0"



4 ROOF ACCESS STAIR B - HIGH ROOF
1/4" = 1'-0"



5 STAIR SECTION - ROOF ACCESS STAIR B
1/4" = 1'-0"

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MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
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PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ENLARGED STAIR PLANS AND SECTIONS

SHEET NUMBER:
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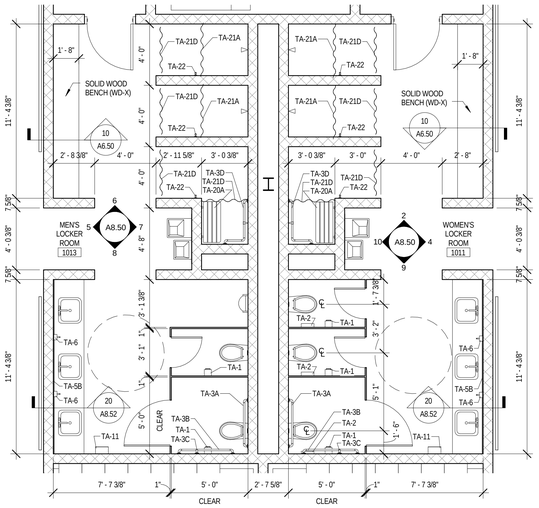
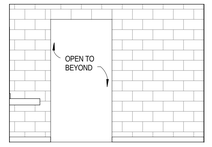
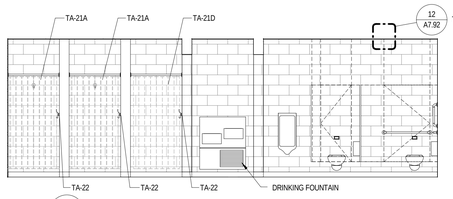


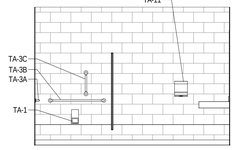
1 ENLARGED PLAN - LEVEL 1 LOCKER ROOM
1/4" = 1'-0"



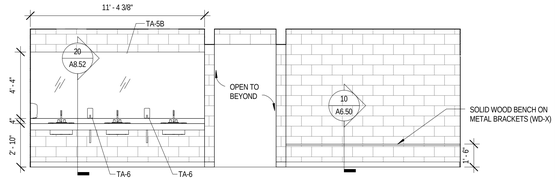
6 LOCKER ROOM ELEVATION - MEN'S 1013 NORTH
1/4" = 1'-0"



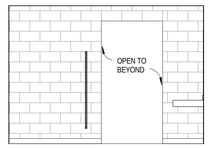
7 LOCKER ROOM ELEVATION - MEN'S 1013 EAST
1/4" = 1'-0"



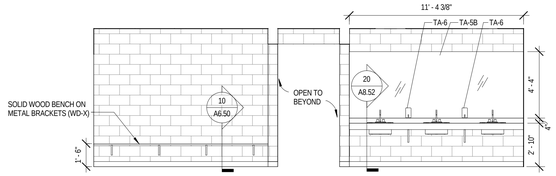
8 LOCKER ROOM ELEVATION - MEN'S 1013 SOUTH
1/4" = 1'-0"



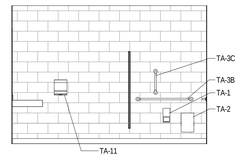
5 LOCKER ROOM ELEVATION - MEN'S 1013 WEST
1/4" = 1'-0"



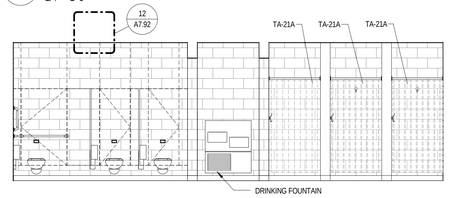
2 LOCKER ROOM ELEVATION - WOMEN'S 1011 NORTH
1/4" = 1'-0"



4 LOCKER ROOM ELEVATION - WOMEN'S 1011 EAST
1/4" = 1'-0"

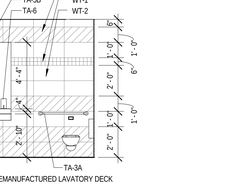


9 LOCKER ROOM ELEVATION - WOMEN'S 1011 SOUTH
1/4" = 1'-0"

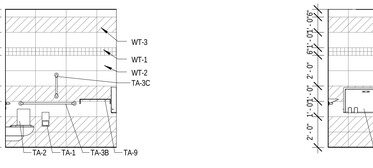


10 LOCKER ROOM ELEVATION - WOMEN'S 1011 WEST
1/4" = 1'-0"

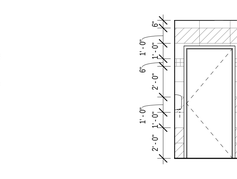
3 ENLARGED PLAN - LEVEL 1 VISITORS LOCKER ROOM
1/4" = 1'-0"



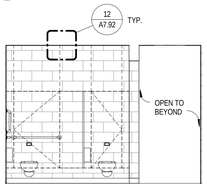
11 LOCKER ROOM ELEVATION - VISITOR'S 1004 NORTH
1/4" = 1'-0"



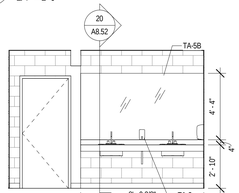
12 LOCKER ROOM ELEVATION - VISITOR'S 1004 EAST
1/4" = 1'-0"



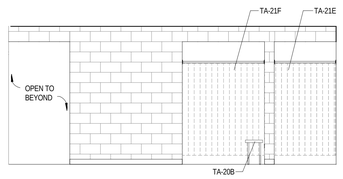
13 LOCKER ROOM ELEVATION - VISITOR'S 1004 SOUTH
1/4" = 1'-0"



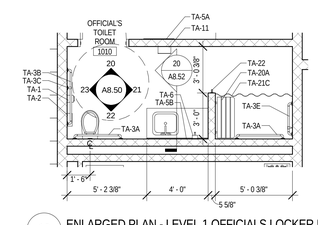
15 LOCKER ROOM ELEVATION - VISITOR'S 1003 NORTH
1/4" = 1'-0"



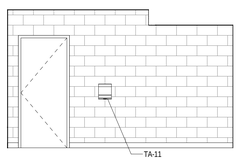
17 LOCKER ROOM ELEVATION - VISITOR'S 1003 SOUTH
1/4" = 1'-0"



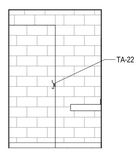
18 LOCKER ROOM ELEVATION - VISITOR'S 1003 WEST
1/4" = 1'-0"



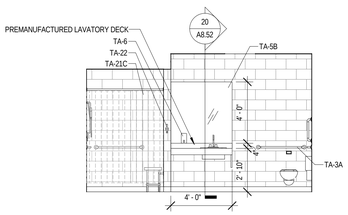
19 ENLARGED PLAN - LEVEL 1 OFFICIALS LOCKER ROOM
1/4" = 1'-0"



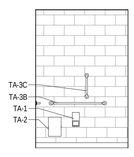
20 LOCKER ROOM ELEVATION - OFFICIALS 1010 NORTH
1/4" = 1'-0"



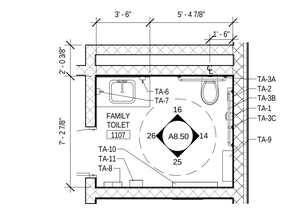
21 LOCKER ROOM ELEVATION - OFFICIALS 1010 EAST
1/4" = 1'-0"



22 LOCKER ROOM ELEVATION - OFFICIALS 1010 SOUTH
1/4" = 1'-0"

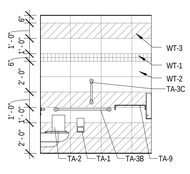


23 LOCKER ROOM ELEVATION - OFFICIALS 1010 WEST
1/4" = 1'-0"

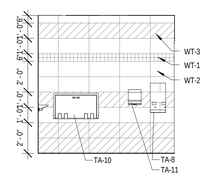


24 ENLARGED PLAN - LEVEL 1 FAMILY RESTROOM
1/4" = 1'-0"

16 TOILET ROOM ELEVATION - FAMILY 1107 NORTH
1/4" = 1'-0"



14 TOILET ROOM ELEVATION - FAMILY 1107 EAST
1/4" = 1'-0"



25 TOILET ROOM ELEVATION - FAMILY 1107 SOUTH
1/4" = 1'-0"

26 TOILET ROOM ELEVATION - FAMILY 1107 WEST
1/4" = 1'-0"

TOILET ACCESSORIES LEGEND

MARK	DESCRIPTION
TA-1	TOILET PAPER DISPENSER (OFCI)
TA-2	SANITARY NAPKIN DISPOSAL
TA-3A	36" GRAB BAR
TA-3B	42" GRAB BAR
TA-3C	18" GRAB BAR
TA-3D	L SHAPED GRAB BAR
TA-3E	24" GRAB BAR
TA-5A	WALL MOUNTED RECT. MIRROR 24"W X 72"H
TA-5B	CONTINUOUS FRAMELESS WALL MOUNTED MIRROR
TA-5C	WALL MOUNTED RECT. MIRROR 36"W X 72"H
TA-6	WALL MOUNTED SOAP DISPENSER (OFCI)
TA-7	WALL MOUNTED HAND SANITIZER DISPENSER (OFCI)
TA-8	WALL MOUNTED SANITARY NAPKIN DISPENSER (OFCI)
TA-9	WALL MOUNTED STAINLESS STEEL SHELF
TA-10	WALL MOUNTED BABY CHANGING STATION
TA-11	WALL MOUNTED AUTOMATIC HAND DRYER
TA-20A	FOLDING SHOWER SEAT
TA-20B	FOLDING DRESSING ROOM SEAT
TA-21A	40" CURTAIN & ROD
TA-21C	60" CURTAIN & ROD
TA-21D	36" CURTAIN & ROD
TA-21E	48" CURTAIN & ROD
TA-21F	64" CURTAIN & ROD
TA-22	TOWEL HOOK

SEE A8.52 FOR TOILET ROOM MOUNTING HEIGHTS

ARCHITECT OF RECORD
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P: 312.496.0000

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NAPERVILLE, IL 60563
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CIVIL ENGINEERING
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

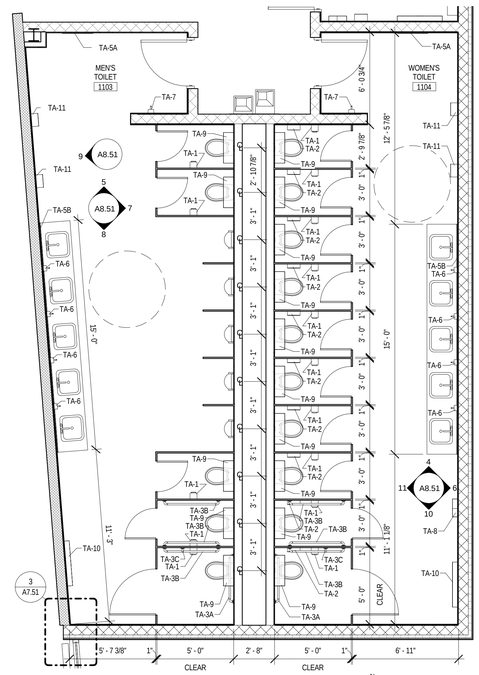
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

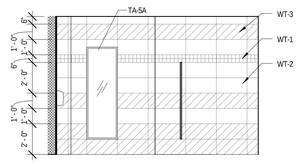
SHEET TITLE:
ENLARGED TOILET PLANS AND ELEVATIONS

SHEET NUMBER:
A8.50

8/28/2015 4:20:09 PM



1 ENLARGED PLAN - LEVEL 1 TOILETS NORTH
1/4" = 1'-0"



5 TOILET ROOM ELEVATION - MEN'S 1103 NORTH
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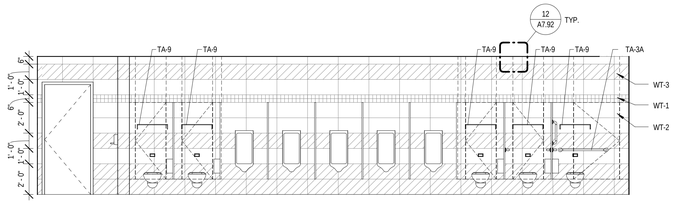

7 TOILET ROOM ELEVATION - MEN'S 1103 EAST
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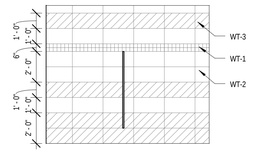
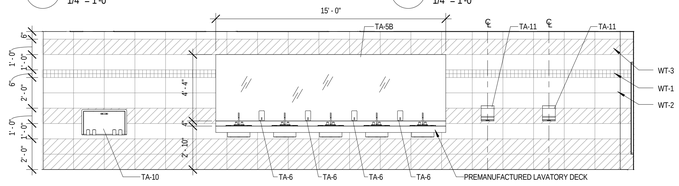
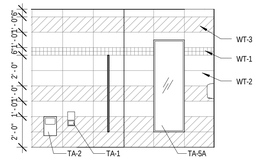


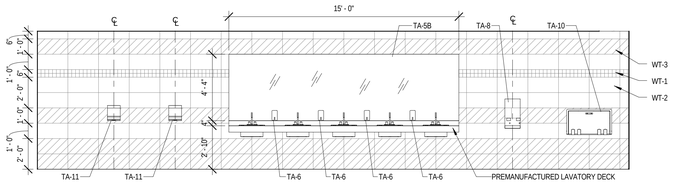
8 TOILET ROOM ELEVATION - MEN'S 1103 SOUTH
1/4" = 1'-0"



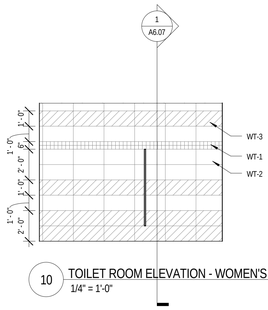
9 TOILET ROOM ELEVATION - MEN'S 1103 WEST
1/4" = 1'-0"



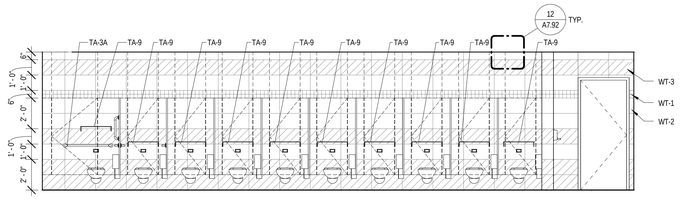
4 TOILET ROOM ELEVATION - WOMEN'S 1104 NORTH
1/4" = 1'-0"



6 TOILET ROOM ELEVATION - WOMEN'S 1104 EAST
1/4" = 1'-0"



10 TOILET ROOM ELEVATION - WOMEN'S 1104 SOUTH
1/4" = 1'-0"



11 TOILET ROOM ELEVATION - WOMEN'S 1104 WEST
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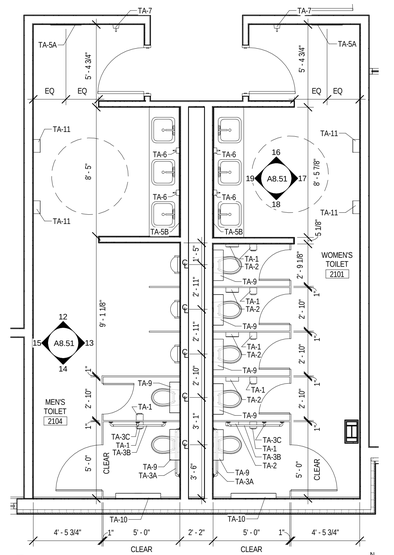
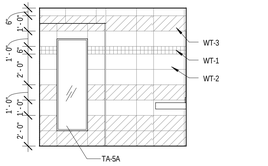
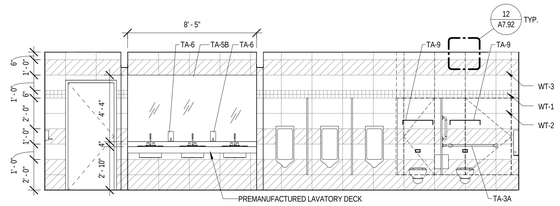


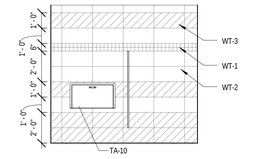
3 ENLARGED PLAN - LEVEL 2 TOILETS
1/4" = 1'-0"



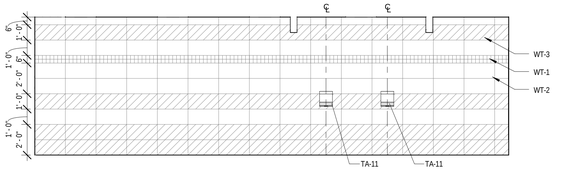
12 TOILET ROOM ELEVATION - MEN'S 2104 NORTH
1/4" = 1'-0"



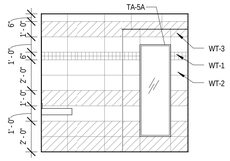
13 TOILET ROOM ELEVATION - MEN'S 2104 EAST
1/4" = 1'-0"



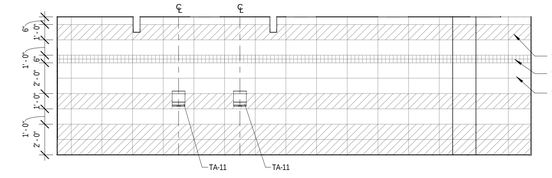
14 TOILET ROOM ELEVATION - MEN'S 2104 SOUTH
1/4" = 1'-0"



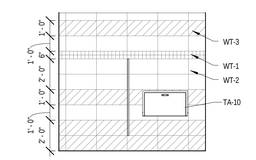
15 TOILET ROOM ELEVATION - MEN'S 2104 WEST
1/4" = 1'-0"



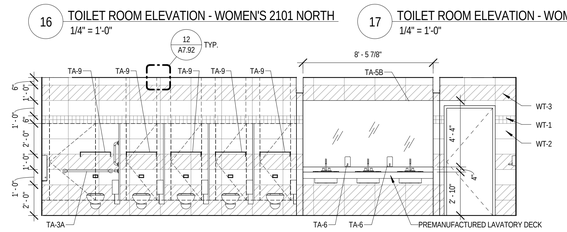
16 TOILET ROOM ELEVATION - WOMEN'S 2101 NORTH
1/4" = 1'-0"



17 TOILET ROOM ELEVATION - WOMEN'S 2101 EAST
1/4" = 1'-0"



18 TOILET ROOM ELEVATION - WOMEN'S 2101 SOUTH
1/4" = 1'-0"



19 TOILET ROOM ELEVATION - WOMEN'S 2101 WEST
1/4" = 1'-0"

TOILET ACCESSORIES LEGEND

MARK	DESCRIPTION
TA-1	TOILET PAPER DISPENSER (OFCI)
TA-2	SANITARY NAPKIN DISPOSAL
TA-3A	36" GRAB BAR
TA-3B	42" GRAB BAR
TA-3C	18" GRAB BAR
TA-3D	L SHAPED GRAB BAR
TA-3E	24" GRAB BAR
TA-5A	WALL MOUNTED RECT. MIRROR 24"W X 72"H
TA-5B	CONTINUOUS FRAMELESS WALL MOUNTED MIRROR
TA-5C	WALL MOUNTED RECT. MIRROR 36"W X 72"H
TA-6	WALL MOUNTED SOAP DISPENSER (OFCI)
TA-7	WALL MOUNTED HAND SANITIZER DISPENSER (OFCI)
TA-8	WALL MOUNTED SANITARY NAPKIN DISPENSER (OFCI)
TA-9	WALL MOUNTED STAINLESS STEEL SHELF
TA-10	WALL MOUNTED BABY CHANGING STATION
TA-11	WALL MOUNTED AUTOMATIC HAND DRYER
TA-20A	FOLDING SHOWER SEAT
TA-20B	FOLDING DRESSING ROOM SEAT
TA-21A	40" CURTAIN & ROD
TA-21C	60" CURTAIN & ROD
TA-21D	36" CURTAIN & ROD
TA-21E	48" CURTAIN & ROD
TA-21F	64" CURTAIN & ROD
TA-22	TOWEL HOOK

SEE A8.52 FOR TOILET ROOM MOUNTING HEIGHTS LEGEND

ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

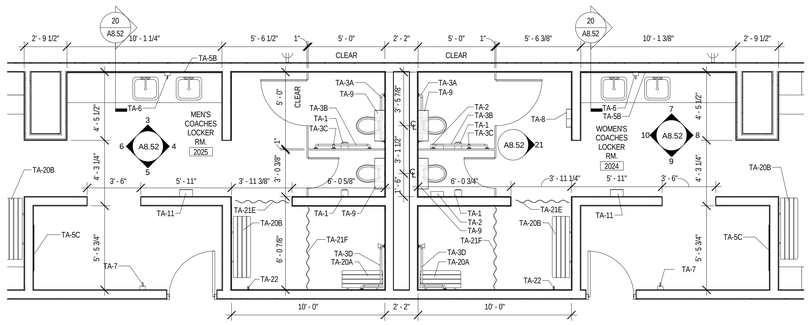
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

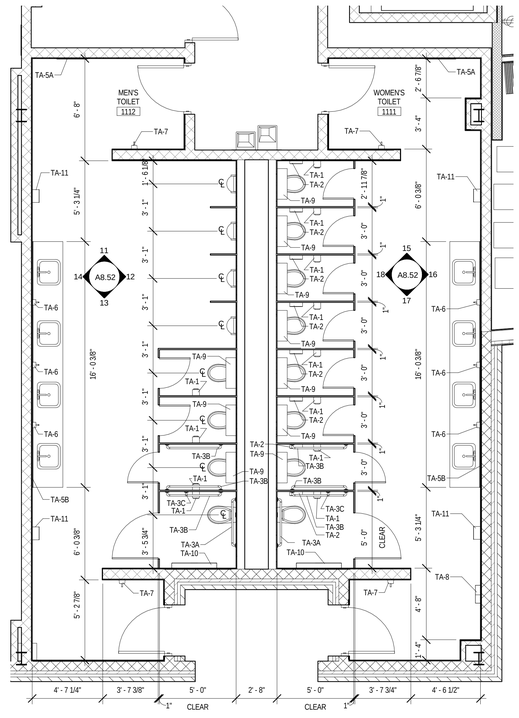
SHEET TITLE:
ENLARGED TOILET PLANS AND ELEVATIONS

SHEET NUMBER:
A8.51

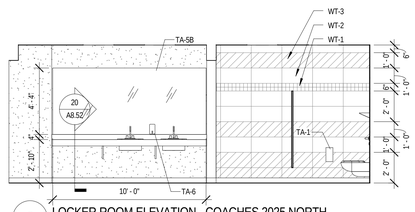
8/28/2015 4:20:21 PM



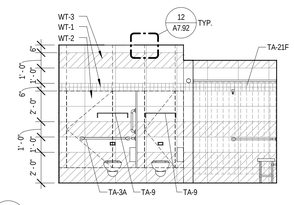
1 ENLARGED PLAN - LEVEL 2 COACHES LOCKER ROOM
1/4" = 1'-0"



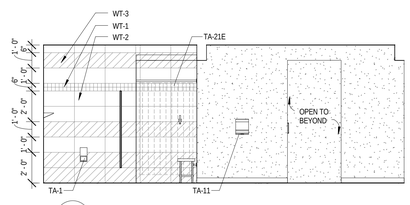
2 ENLARGED PLAN - LEVEL 1 TOILETS SOUTH
1/4" = 1'-0"



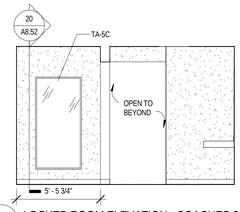
3 LOCKER ROOM ELEVATION - COACHES 2025 NORTH
1/4" = 1'-0"



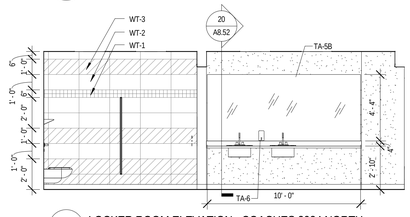
4 LOCKER ROOM ELEVATION - COACHES 2025 EAST
1/4" = 1'-0"



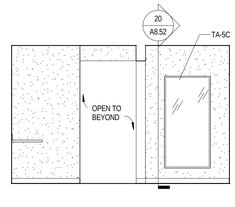
5 LOCKER ROOM ELEVATION - COACHES 2025 SOUTH
1/4" = 1'-0"



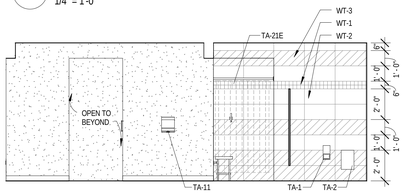
6 LOCKER ROOM ELEVATION - COACHES 2025 WEST
1/4" = 1'-0"



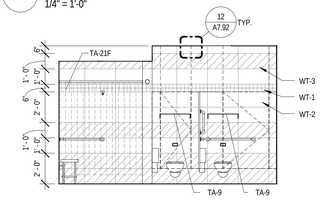
7 LOCKER ROOM ELEVATION - COACHES 2024 NORTH
1/4" = 1'-0"



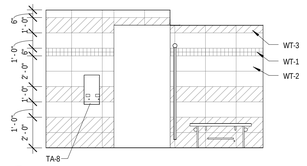
8 LOCKER ROOM ELEVATION - COACHES 2024 EAST VANITY WALL
1/4" = 1'-0"



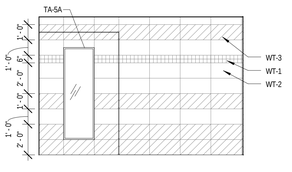
9 LOCKER ROOM ELEVATION - COACHES 2024 SOUTH
1/4" = 1'-0"



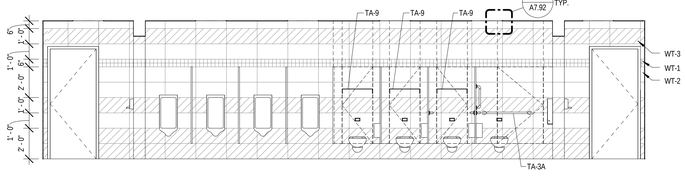
10 LOCKER ROOM ELEVATION - COACHES 2024 WEST
1/4" = 1'-0"



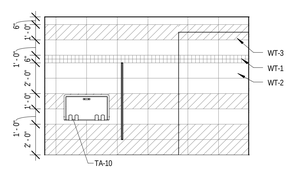
21 LOCKER ROOM ELEVATION - COACHES 2024 EAST TOILET ROOM WALL
1/4" = 1'-0"



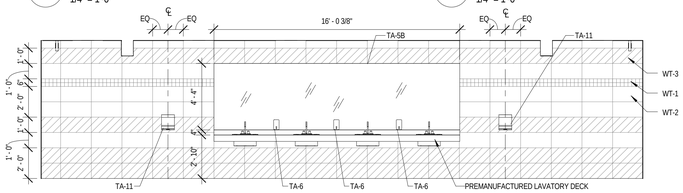
11 TOILET ROOM ELEVATION - MEN'S 1112 NORTH
1/4" = 1'-0"



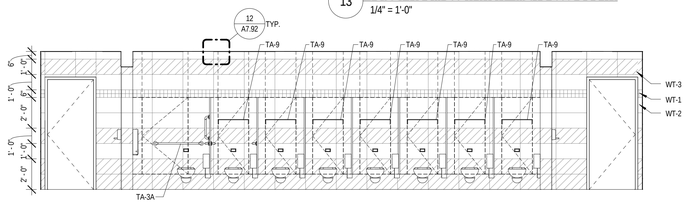
12 TOILET ROOM ELEVATION - MEN'S 1112 EAST
1/4" = 1'-0"



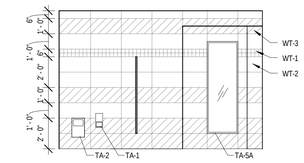
13 TOILET ROOM ELEVATION - MEN'S 1112 SOUTH
1/4" = 1'-0"



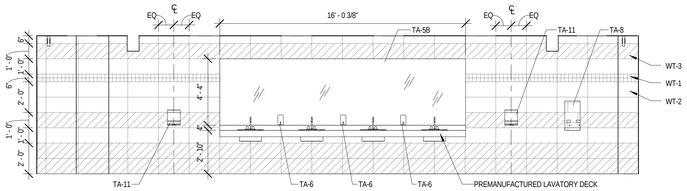
14 TOILET ROOM ELEVATION - MEN'S 1112 WEST
1/4" = 1'-0"



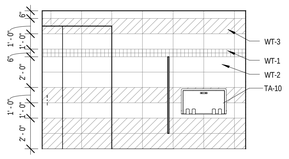
18 TOILET ROOM ELEVATION - WOMEN'S 1111 WEST
1/4" = 1'-0"



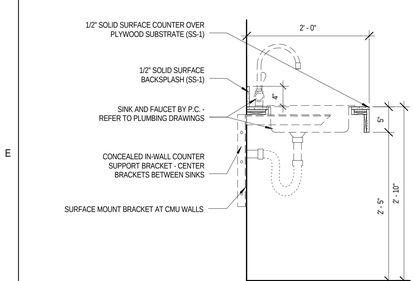
15 TOILET ROOM ELEVATION - WOMEN'S 1111 NORTH
1/4" = 1'-0"



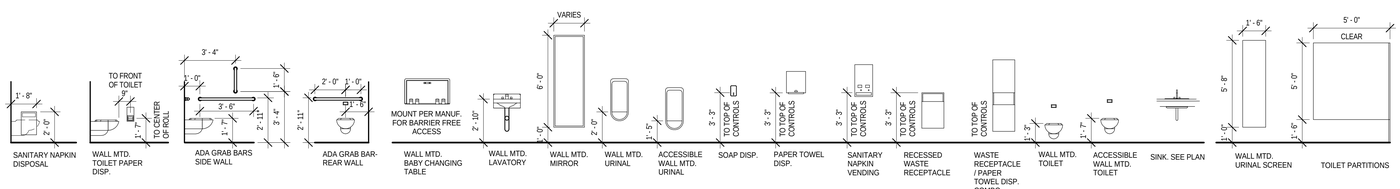
16 TOILET ROOM ELEVATION - WOMEN'S 1111 EAST
1/4" = 1'-0"



17 TOILET ROOM ELEVATION - WOMEN'S 1111 SOUTH
1/4" = 1'-0"



20 MILLWORK DETAIL
1" = 1'-0"



MOUNTING HEIGHTS LEGEND

TOILET ACCESSORIES LEGEND

MARK	DESCRIPTION
TA-1	TOILET PAPER DISPENSER (OFCI)
TA-2	SANITARY NAPKIN DISPOSAL
TA-3A	36" GRAB BAR
TA-3B	42" GRAB BAR
TA-3C	18" GRAB BAR
TA-3D	L SHAPED GRAB BAR
TA-3E	24" GRAB BAR
TA-5A	WALL MOUNTED RECT. MIRROR 24"W X 72"H
TA-5B	CONTINUOUS FRAMELESS WALL MOUNTED MIRROR
TA-5C	WALL MOUNTED RECT. MIRROR 36"W X 72"H
TA-6	WALL MOUNTED SOAP DISPENSER (OFCI)
TA-7	WALL MOUNTED HAND SANITIZER DISPENSER (OFCI)
TA-8	WALL MOUNTED SANITARY NAPKIN DISPENSER (OFCI)
TA-9	WALL MOUNTED STAINLESS STEEL SHELF
TA-10	WALL MOUNTED BABY CHANGING STATION
TA-11	WALL MOUNTED AUTOMATIC HAND DRYER
TA-20A	FOLDING SHOWER SEAT
TA-20B	FOLDING DRESSING ROOM SEAT
TA-21A	40" CURTAIN & ROD
TA-21C	60" CURTAIN & ROD
TA-21D	36" CURTAIN & ROD
TA-21E	48" CURTAIN & ROD
TA-21F	64" CURTAIN & ROD
TA-22	TOWEL HOOK

dka

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

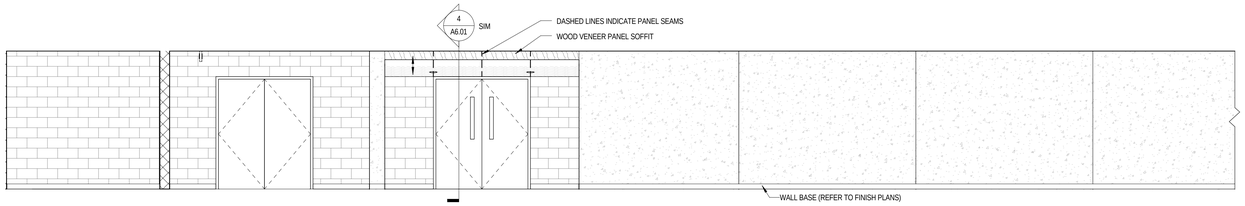
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

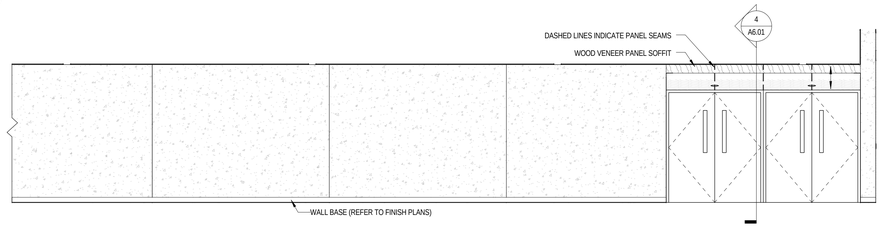
SHEET TITLE:
ENLARGED TOILET PLANS AND ELEVATIONS

SHEET NUMBER:
A8.52

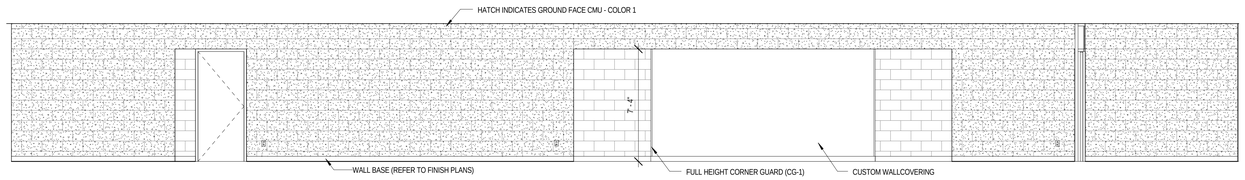
8/28/2015 4:20:36 PM



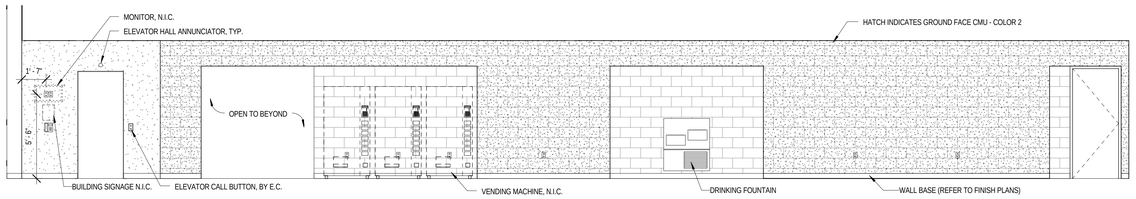
1 INTERIOR ELEVATION - CORRIDOR 1110 NORTH A
1/4" = 1'-0"



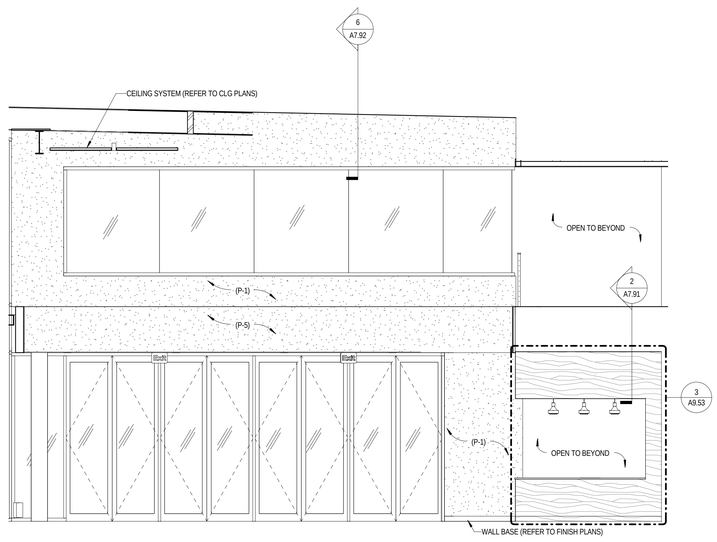
2 INTERIOR ELEVATION - CORRIDOR 1110 NORTH B
1/4" = 1'-0"



3 INTERIOR ELEVATION - CORRIDOR 1110 SOUTH A
1/4" = 1'-0"



4 INTERIOR ELEVATION - CORRIDOR 1110 SOUTH B
1/4" = 1'-0"



7 INTERIOR ELEVATION - CORRIDOR 1101 SOUTH
1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
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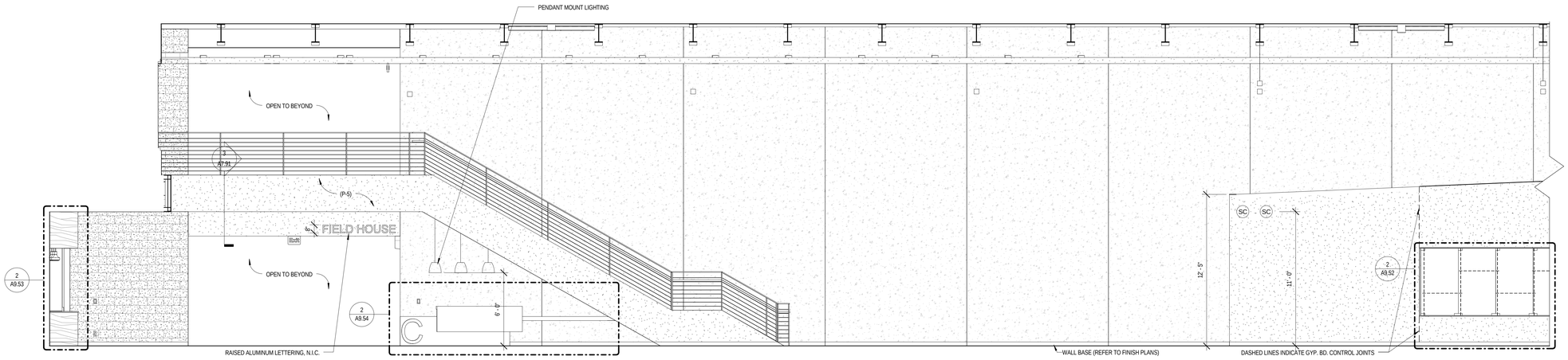
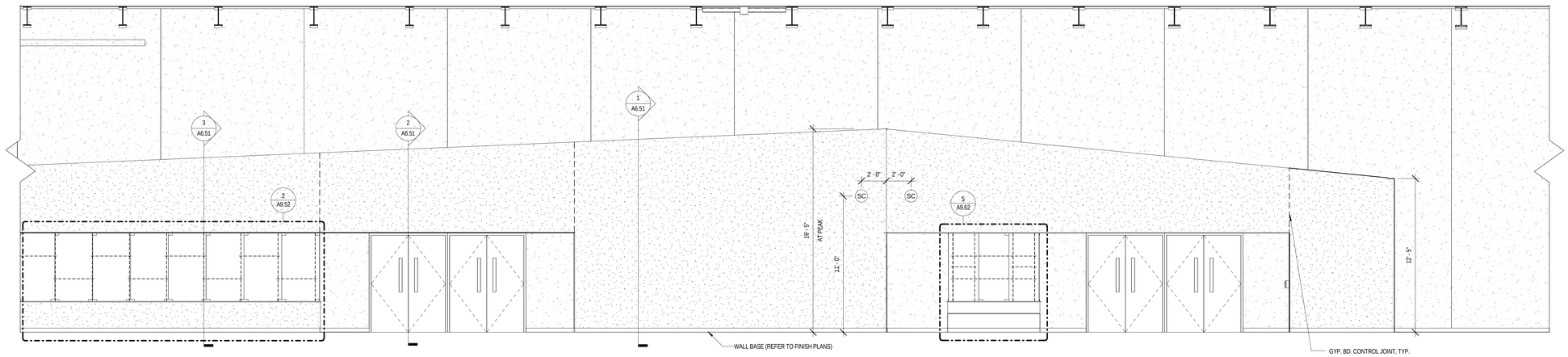
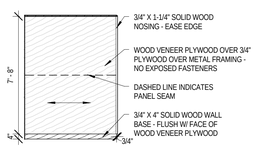


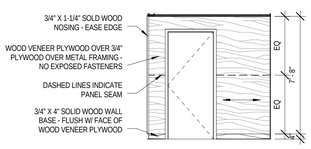
1 INTERIOR ELEVATION - CORRIDOR 1101 WEST A
1/4" = 1'-0"



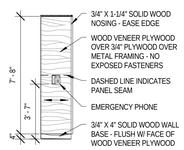
2 INTERIOR ELEVATION - CORRIDOR 1101 WEST B
1/4" = 1'-0"



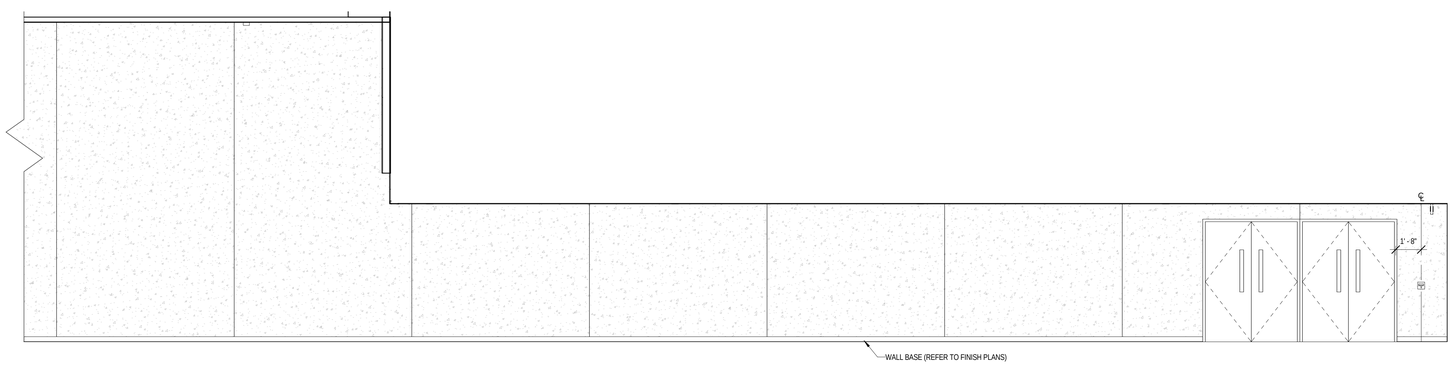
3 INTERIOR ELEVATION - CORRIDOR 1101 ALCOVE NORTH
1/4" = 1'-0"



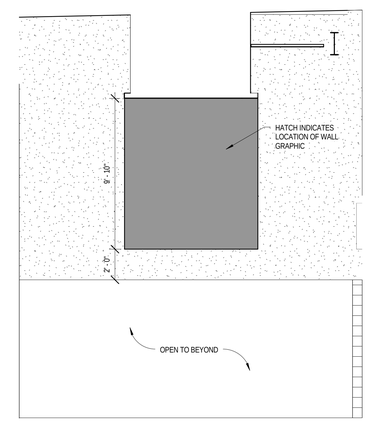
4 INTERIOR ELEVATION - CORRIDOR 1101 ALCOVE SOUTH
1/4" = 1'-0"



7 INTERIOR ELEVATION - CORRIDOR 1101 ALCOVE NORTH 2
1/4" = 1'-0"



5 INTERIOR ELEVATION - CORRIDOR 1101 WEST C
1/4" = 1'-0"



6 INTERIOR ELEVATION - CORRIDOR 1101 NORTH
1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.02

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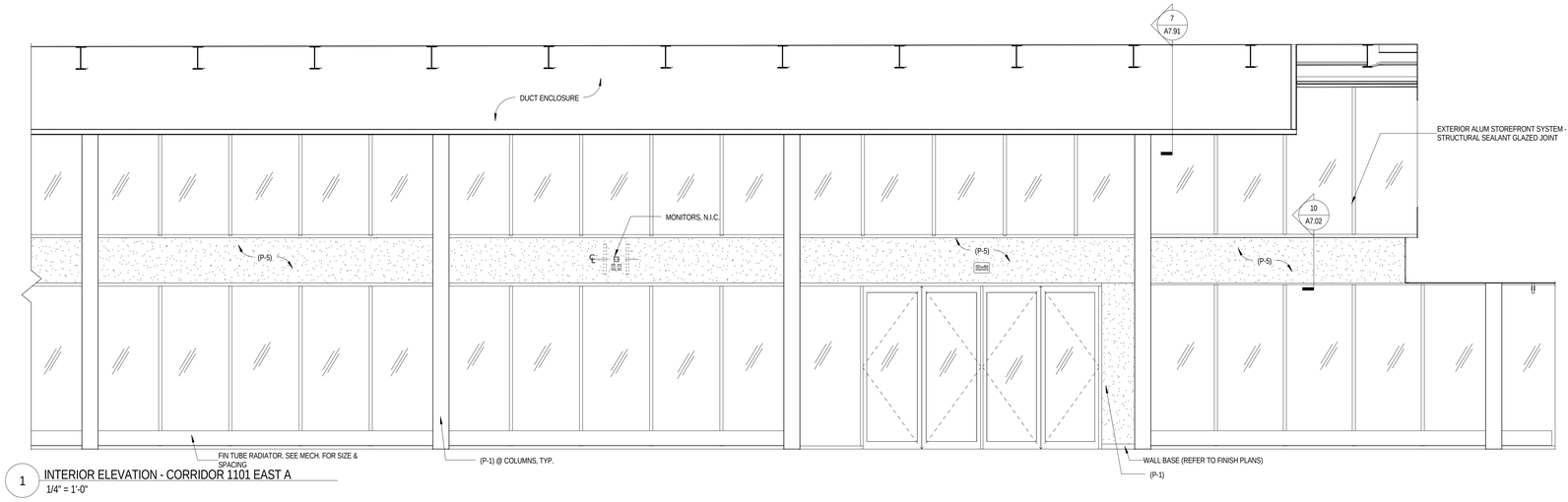
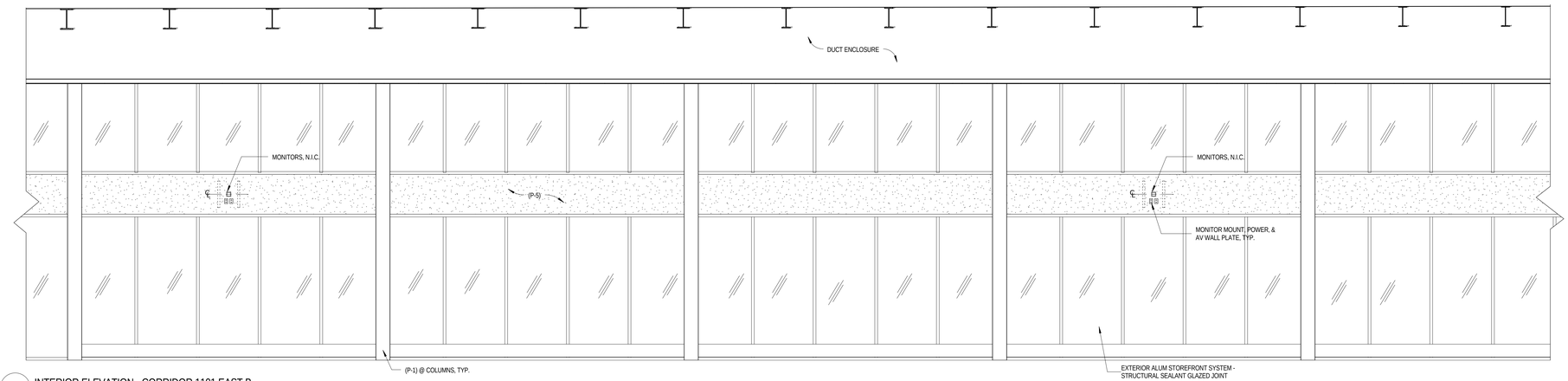
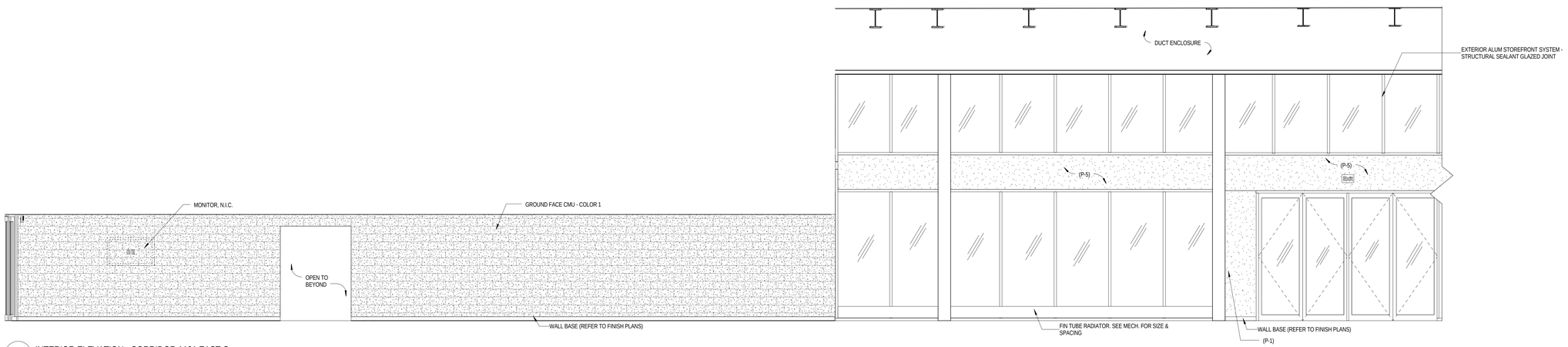


1 INTERIOR ELEVATION - CORRIDOR 1101 EAST A
1/4" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR 1101 EAST B
1/4" = 1'-0"



3 INTERIOR ELEVATION - CORRIDOR 1101 EAST C
1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
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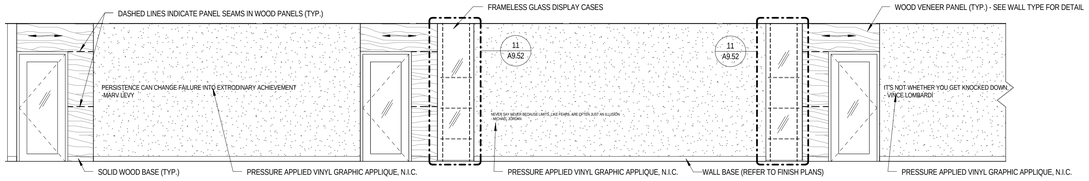
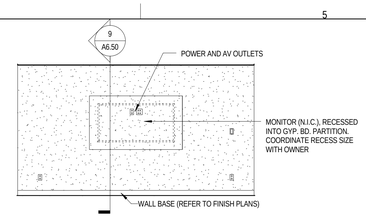
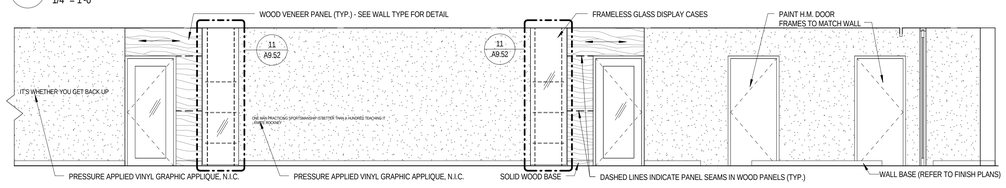


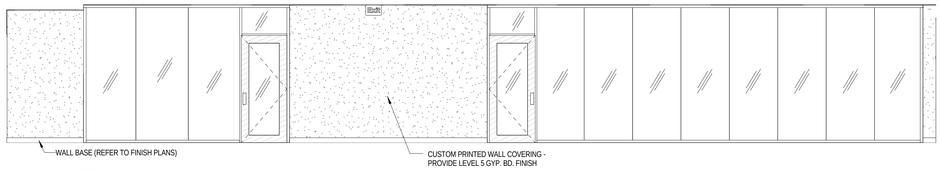
1 INTERIOR ELEVATION - CORRIDOR 2106 NORTH A
1/4" = 1'-0"



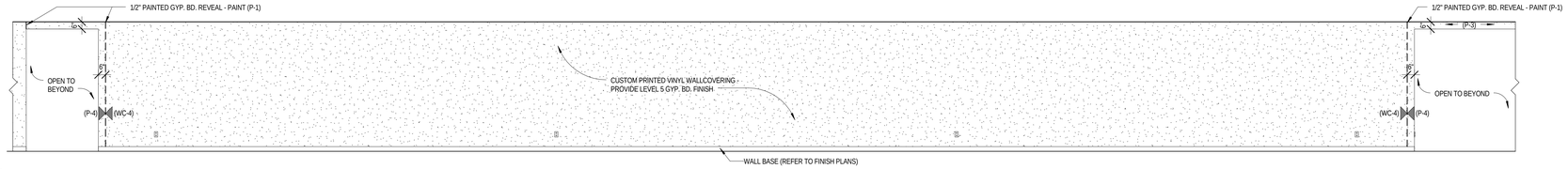
2 INTERIOR ELEVATION - WAITING AREA 2109 EAST
1/4" = 1'-0"



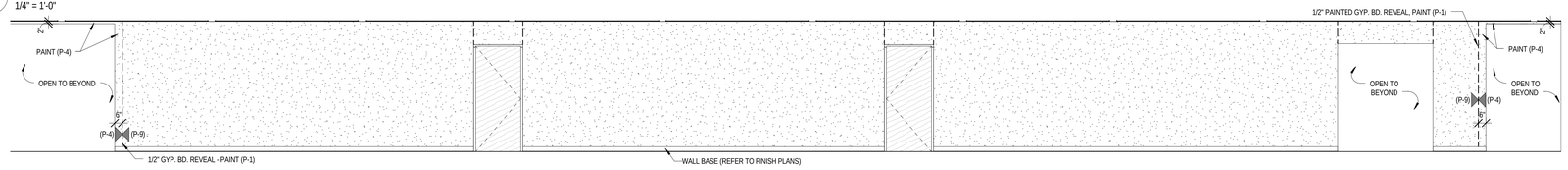
3 INTERIOR ELEVATION - CORRIDOR 2106 NORTH B
1/4" = 1'-0"



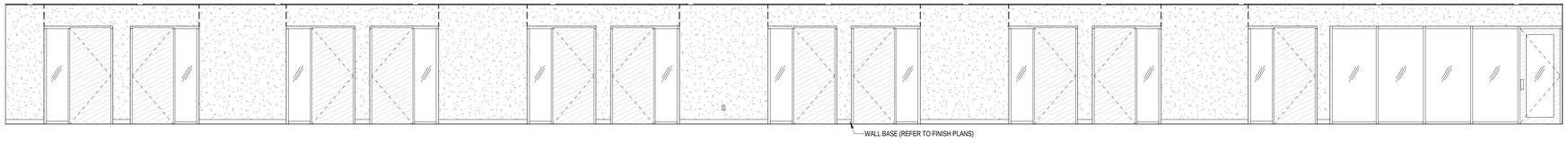
4 INTERIOR ELEVATION - WAITING AREA 2109 WEST
1/4" = 1'-0"



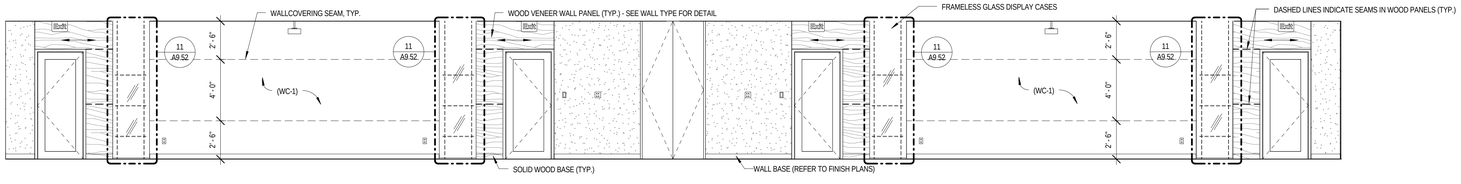
5 INTERIOR ELEVATION - CORRIDOR 2106 SOUTH
1/4" = 1'-0"



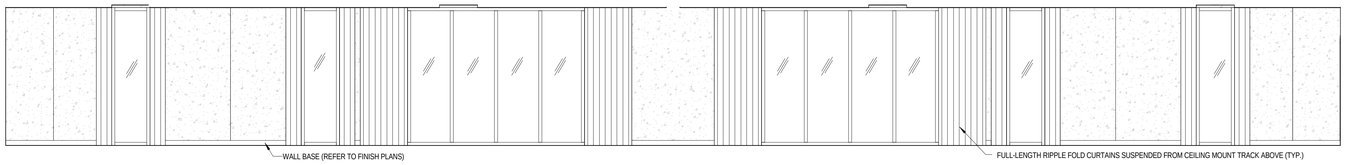
6 INTERIOR ELEVATION - CORRIDOR 2110 NORTH
1/4" = 1'-0"



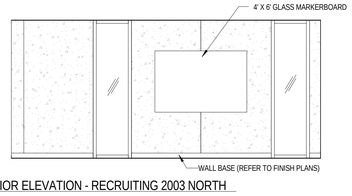
7 INTERIOR ELEVATION - CORRIDOR 2110 SOUTH
1/4" = 1'-0"



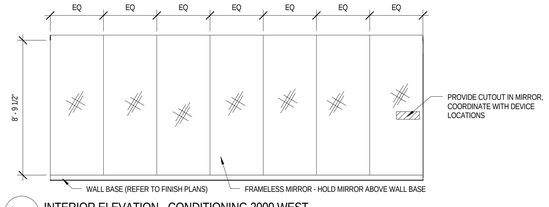
8 INTERIOR ELEVATION - PRESENTATION ROOM 2001/2002 SOUTH
1/4" = 1'-0"



9 INTERIOR ELEVATION - PRESENTATION ROOM 2001/2002 NORTH
1/4" = 1'-0"



10 INTERIOR ELEVATION - RECRUITING 2003 NORTH
1/4" = 1'-0"



11 INTERIOR ELEVATION - CONDITIONING 2000 WEST
1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

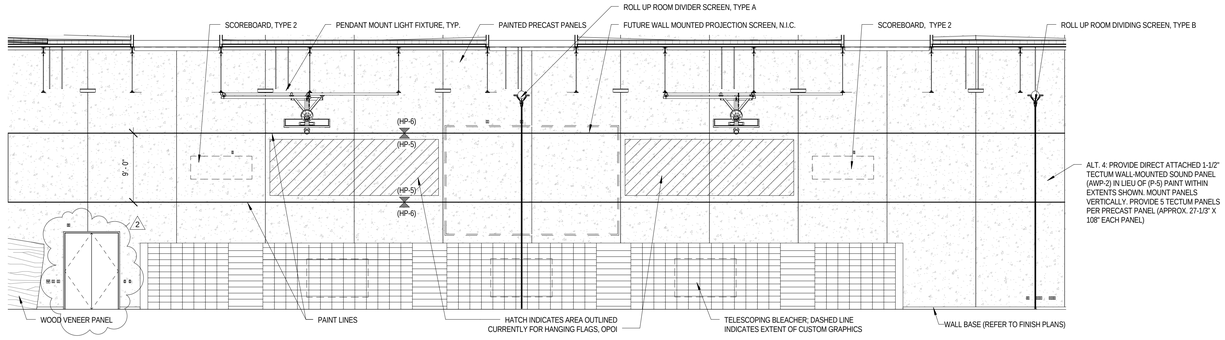
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

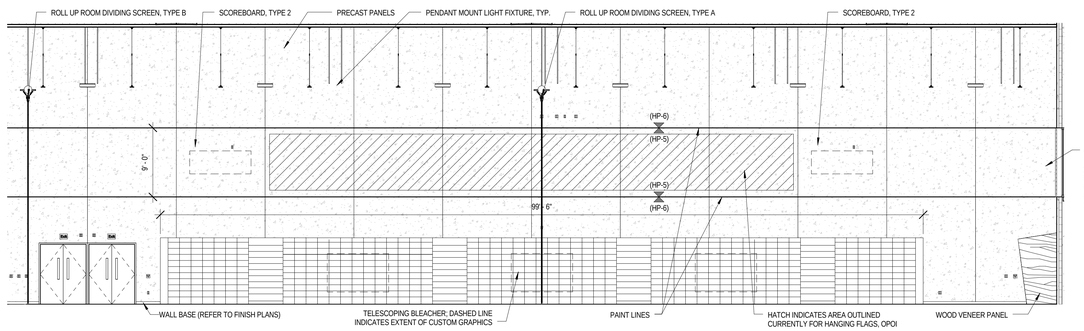
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.04

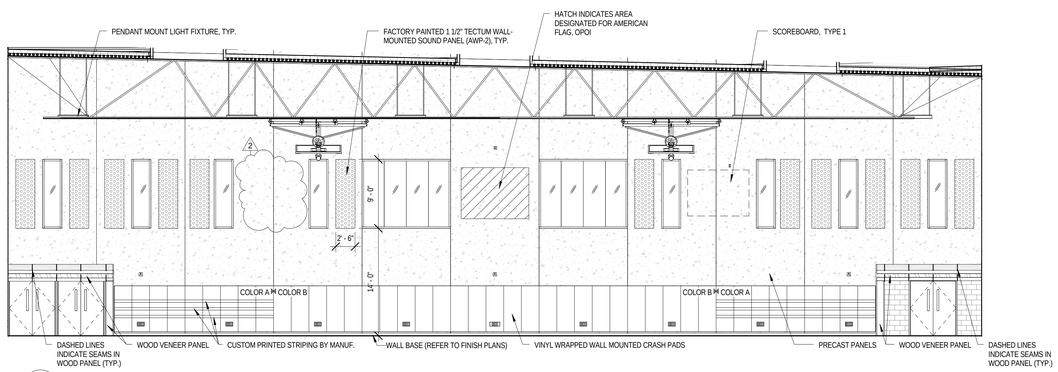
8/28/2015 4:21:09 PM



1 INTERIOR ELEVATION - COMPETITION WEST
1/8" = 1'-0"



2 INTERIOR ELEVATION - COMPETITION EAST
1/8" = 1'-0"



4 INTERIOR ELEVATION - COMPETITION SOUTH
1/8" = 1'-0"

ARCHITECT OF RECORD
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.05

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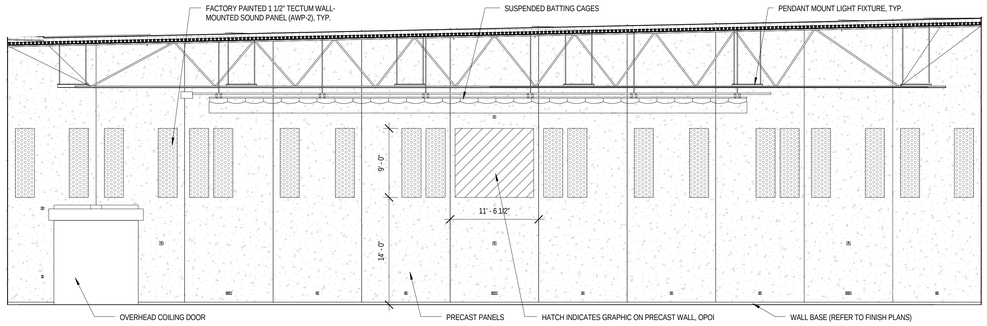
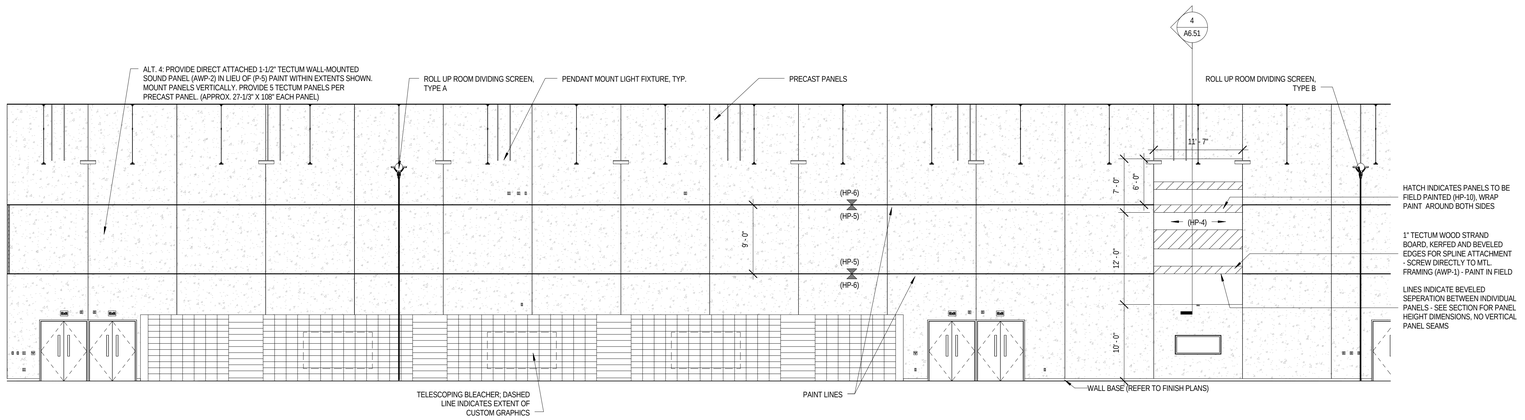
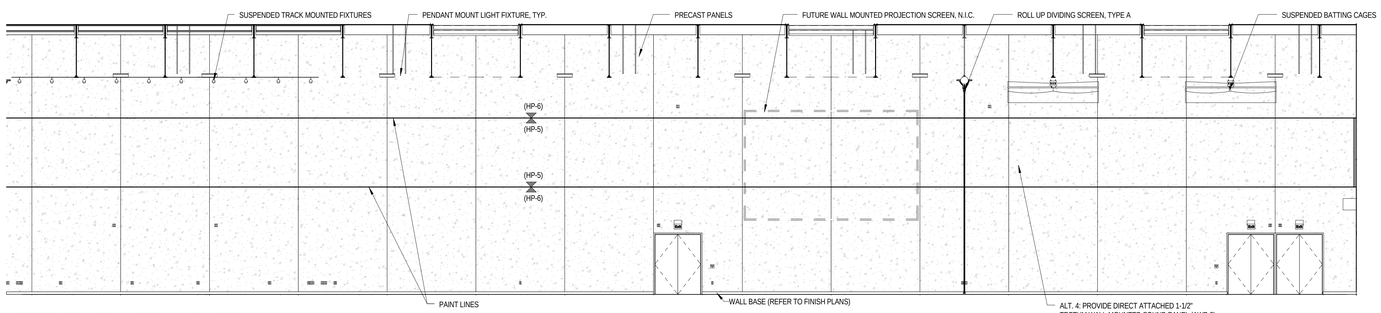


1 INTERIOR ELEVATION - FIELD HOUSE NORTH
1/8" = 1'-0"



3 INTERIOR ELEVATION - FIELD HOUSE EAST
1/8" = 1'-0"



4 INTERIOR ELEVATION - FIELD HOUSE WEST
1/8" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

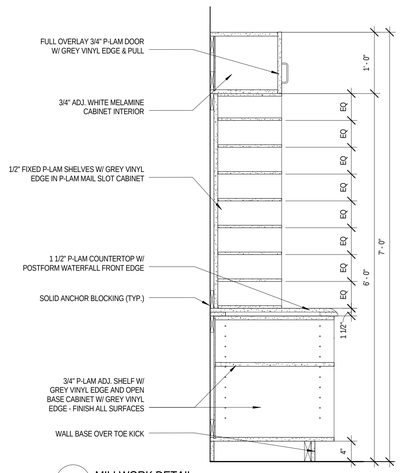
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

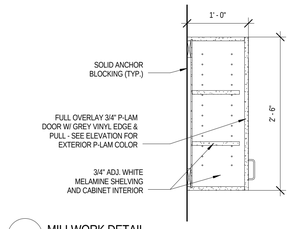
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.06

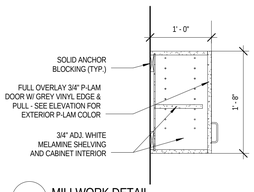
8/28/2015 4:21:30 PM



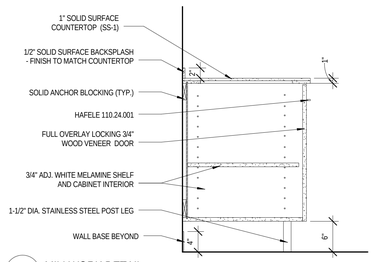
4 MILLWORK DETAIL
1" = 1'-0"



1 MILLWORK DETAIL
1" = 1'-0"

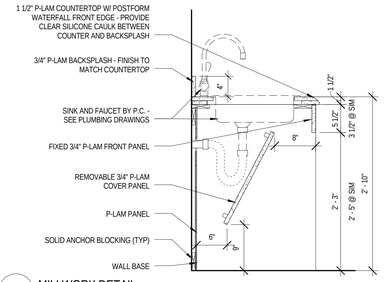


2 MILLWORK DETAIL
1" = 1'-0"

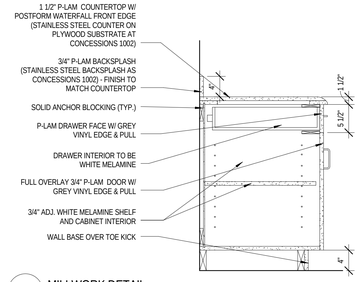


3 MILLWORK DETAIL
1" = 1'-0"

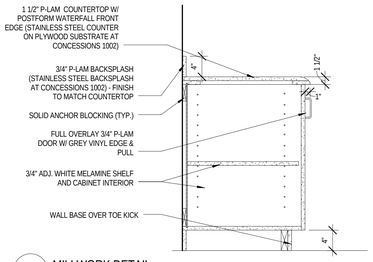
MILLWORK FINISH TYPES:			
TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
ES-1	FRONT DESK ENGINEERED STONE	CAESARSTONE	1141 PURE WHITE
PL-1	GRAPHIC PLASTIC LAMINATE	FORMICA	6610-58 ENDLESS GREYSTONE
PL-2	WHITE PLASTIC LAMINATE	FORMICA	933-58 MISSION WHITE
PL-3	NOT USED		
PL-4	BLACK PLASTIC LAMINATE	FORMICA	909-58 BLACK
SS-1	BLACK SOLID SURFACE	MEGANITE	710 EBONY GRANITE
SS-2	WHITE SOLID SURFACE	MEGANITE	BRIGHT WHITE 001



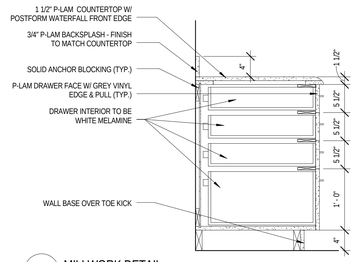
5 MILLWORK DETAIL
1" = 1'-0"



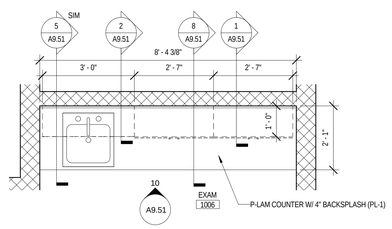
6 MILLWORK DETAIL
1" = 1'-0"



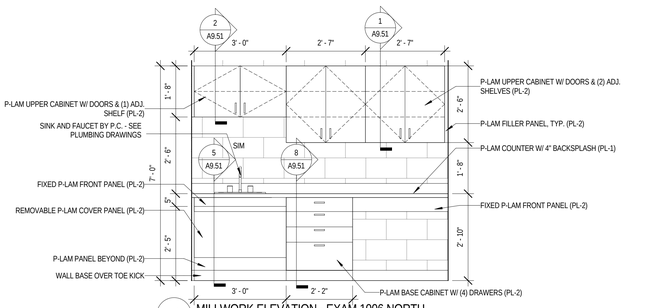
7 MILLWORK DETAIL
1" = 1'-0"



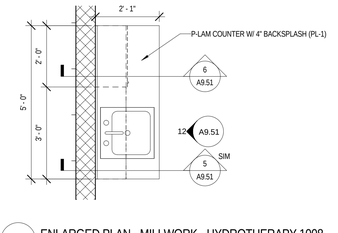
8 MILLWORK DETAIL
1" = 1'-0"



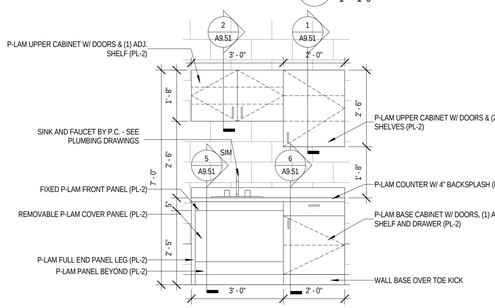
9 ENLARGED PLAN - MILLWORK - EXAM 1006
1/2" = 1'-0"



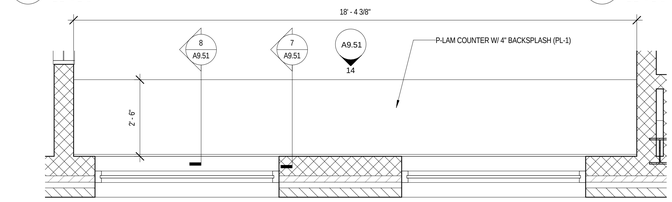
10 MILLWORK ELEVATION - EXAM 1006 NORTH
1/2" = 1'-0"



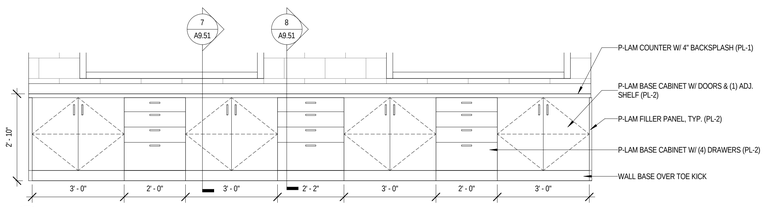
11 ENLARGED PLAN - MILLWORK - HYDROTHERAPY 1008
1/2" = 1'-0"



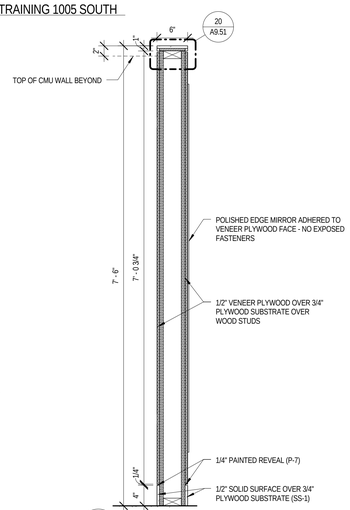
12 MILLWORK ELEVATION - HYDROTHERAPY 1008 WEST
1/2" = 1'-0"



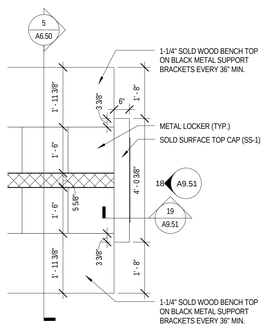
13 ENLARGED PLAN - MILLWORK - TRAINING 1005
1/2" = 1'-0"



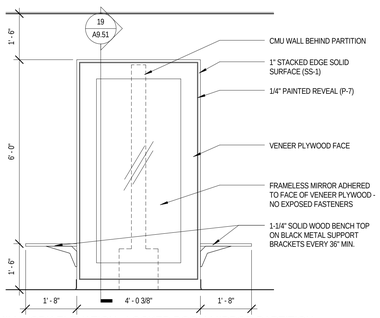
14 MILLWORK ELEVATION - TRAINING 1005 SOUTH
1/2" = 1'-0"



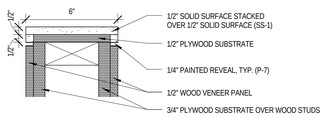
19 MILLWORK SECTION - LOCKER ROOM MIRROR PARTITION
1" = 1'-0"



17 ENLARGED PLAN - MILLWORK - LOCKER ROOM MIRROR PARTITION
1/2" = 1'-0"



18 MILLWORK ELEVATION - LOCKER ROOM MIRROR PARTITION
1/2" = 1'-0"



20 MILLWORK SECTION DETAIL - LOCKER ROOM MIRROR PARTITION
3" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

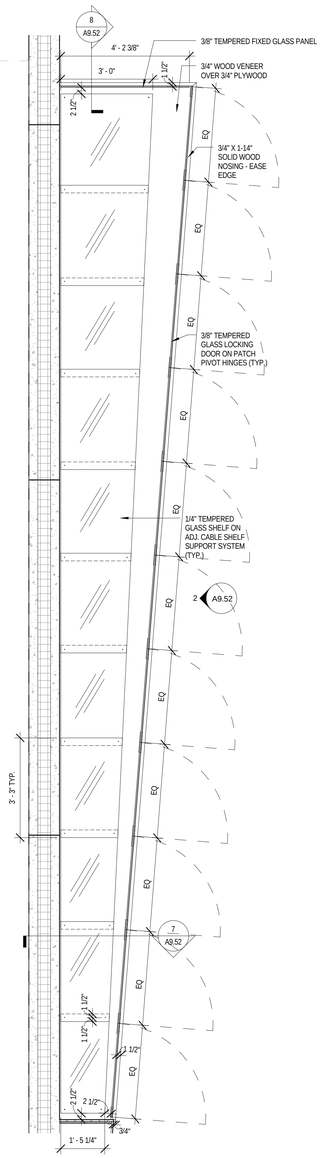
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

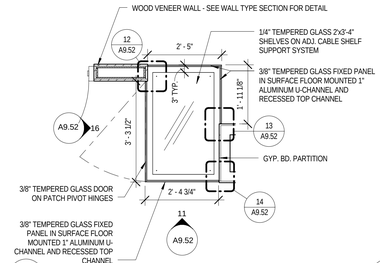
SHEET TITLE:
MILLWORK DETAILS

SHEET NUMBER:
A9.51

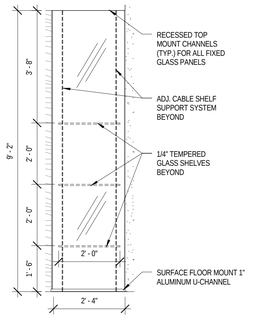
8/28/2015 4:21:37 PM



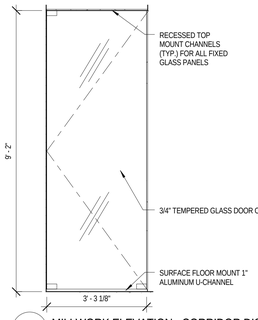
1 ENLARGED PLAN - MILLWORK - CORRIDOR 1101 DISPLAY CASE 1
1/2" = 1'-0"



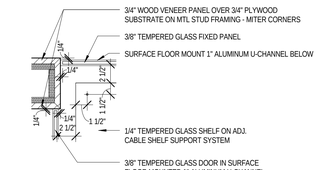
10 ENLARGED PLAN - MILLWORK - CORRIDOR DISPLAY CASE
1/2" = 1'-0"



11 MILLWORK ELEVATION - CORRIDOR DISPLAY CASE NORTH
1/2" = 1'-0"

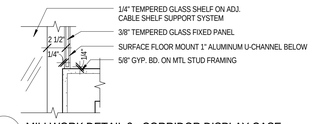


16 MILLWORK ELEVATION - CORRIDOR DISPLAY CASE EAST
1/2" = 1'-0"

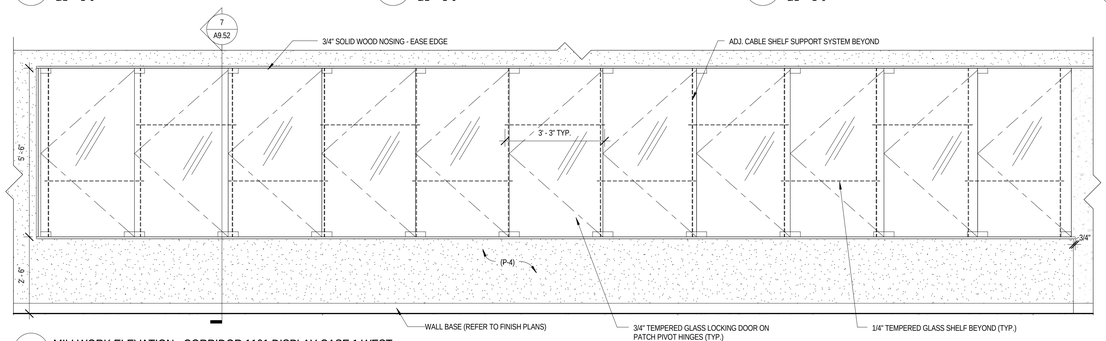


12 MILLWORK DETAIL 1 - CORRIDOR DISPLAY CASE
1 1/2" = 1'-0"

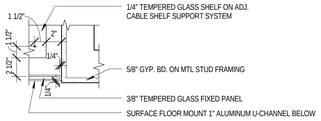
MILLWORK FINISH TYPES:			
TYPE	DESCRIPTION	MANUFACTURER	NAME#/#COLOR
ES-1	FRONT DESK ENGINEERED STONE	CAESARSTONE	1141 PURE WHITE
PL-1	GRAPHIC PLASTIC LAMINATE	FORMICA	6610-58 ENDLESS GREYSTONE
PL-2	WHITE PLASTIC LAMINATE	FORMICA	933-58 MISSION WHITE
PL-3	NOT USED		
PL-4	BLACK PLASTIC LAMINATE	FORMICA	909-58 BLACK
SS-1	BLACK SOLID SURFACE	MEGANITE	710 EBONY GRANITE
SS-2	WHITE SOLID SURFACE	MEGANITE	BRIGHT WHITE 001



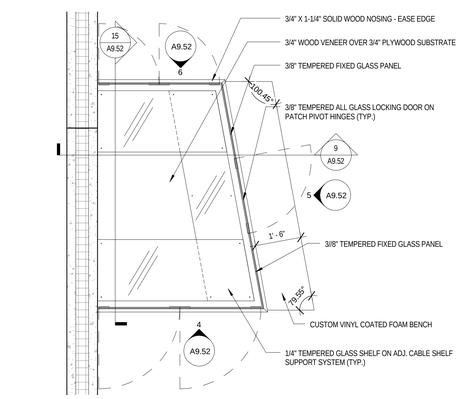
13 MILLWORK DETAIL 2 - CORRIDOR DISPLAY CASE
1 1/2" = 1'-0"



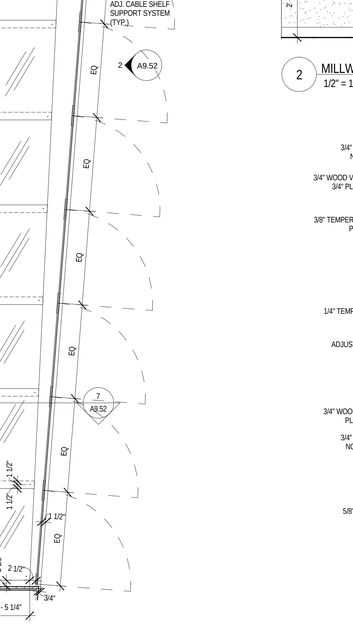
2 MILLWORK ELEVATION - CORRIDOR 1101 DISPLAY CASE 1 WEST
1/2" = 1'-0"



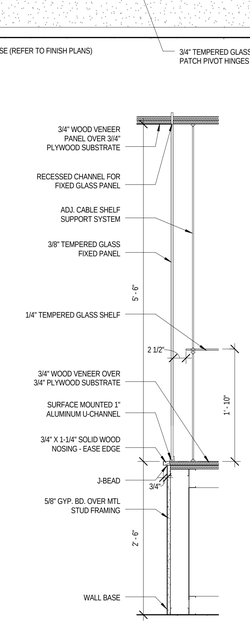
14 MILLWORK DETAIL 3 - CORRIDOR DISPLAY CASE
1 1/2" = 1'-0"



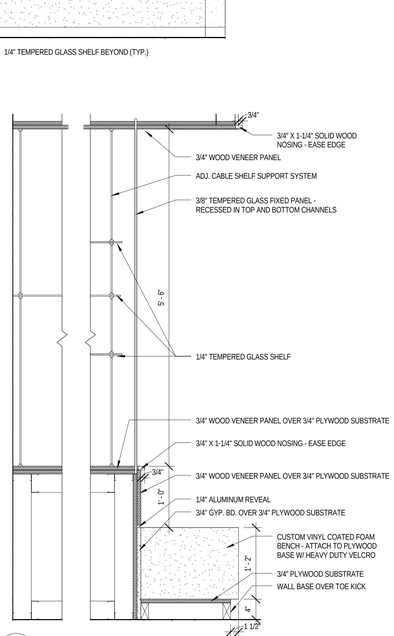
3 ENLARGED PLAN - MILLWORK - CORRIDOR 1101 DISPLAY CASE 2
1/2" = 1'-0"



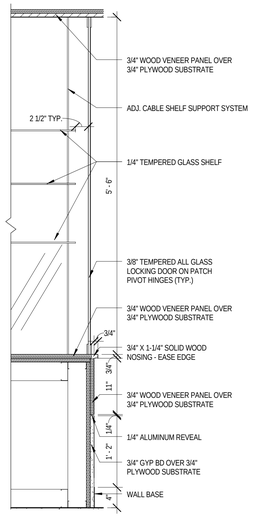
7 MILLWORK SECTION 1 - CORRIDOR 1101 DISPLAY CASE 1
1" = 1'-0"



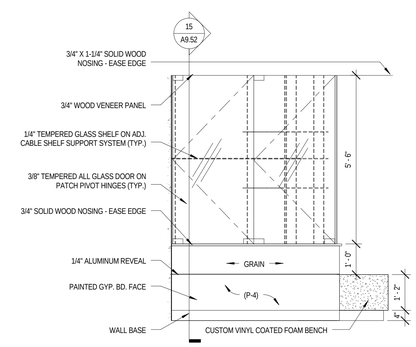
8 MILLWORK SECTION 2 - CORRIDOR 1101 DISPLAY CASE 1
1" = 1'-0"



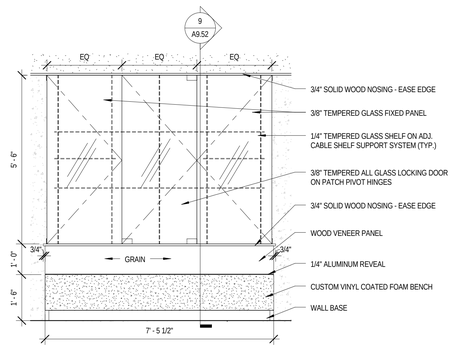
9 MILLWORK SECTION - CORRIDOR 1101 DISPLAY CASE 2
1" = 1'-0"



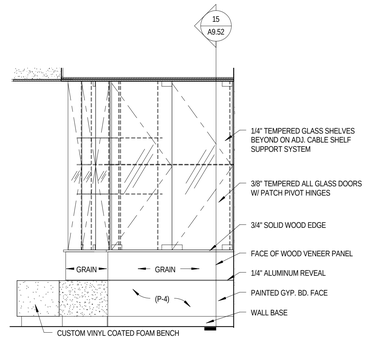
15 MILLWORK SECTION 2 - CORRIDOR 1101 DISPLAY CASE 2
1" = 1'-0"



4 MILLWORK ELEVATION - CORRIDOR 1101 DISPLAY CASE 2 NORTH
1/2" = 1'-0"



5 MILLWORK ELEVATION - CORRIDOR 1101 DISPLAY CASE 2 WEST
1/2" = 1'-0"



6 MILLWORK ELEVATION - CORRIDOR 1101 DISPLAY CASE 2 SOUTH
1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

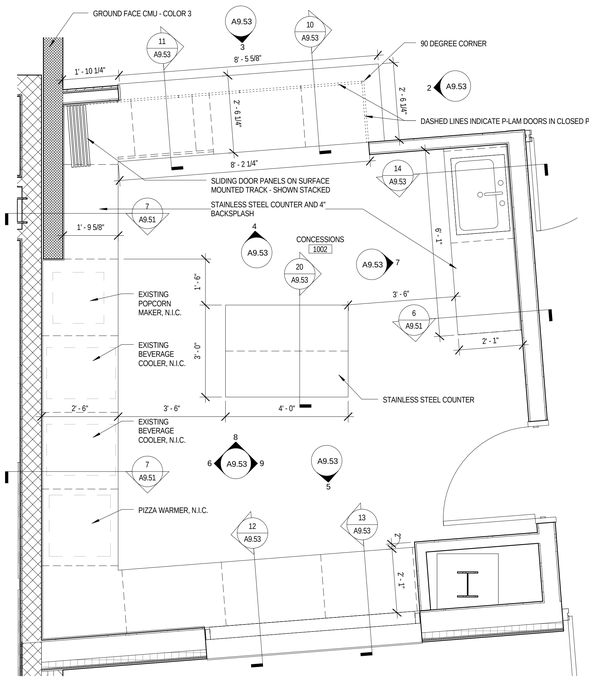
SHEET TITLE:
MILLWORK DETAILS

SHEET NUMBER:
A9.52

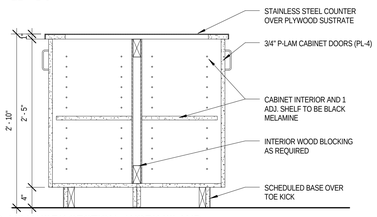
8/28/2015 4:21:47 PM

MILLWORK FINISH TYPES:

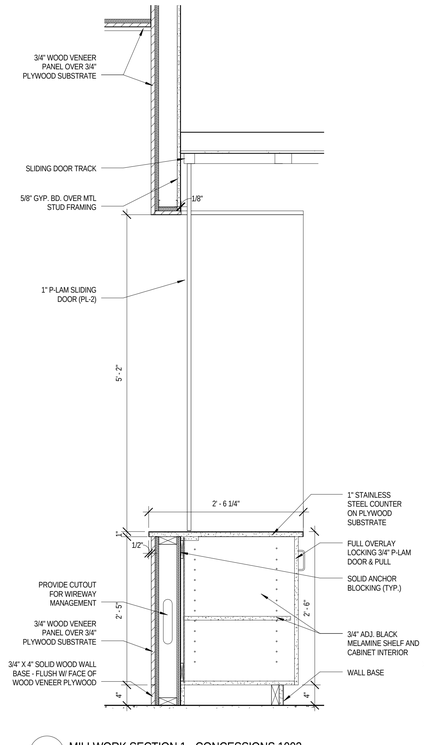
TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
ES-1	FRONT DESK ENGINEERED STONE	CAESARSTONE	1141 PURE WHITE
PL-1	GRAPHIC PLASTIC LAMINATE	FORMICA	6610-58 ENDLESS GREYSTONE
PL-2	WHITE PLASTIC LAMINATE	FORMICA	933-58 MISSION WHITE
PL-3	NOT USED		
PL-4	BLACK PLASTIC LAMINATE	FORMICA	909-58 BLACK
SS-1	BLACK SOLID SURFACE	MEGANITE	710 EBONY GRANITE
SS-2	WHITE SOLID SURFACE	MEGANITE	BRIGHT WHITE 001



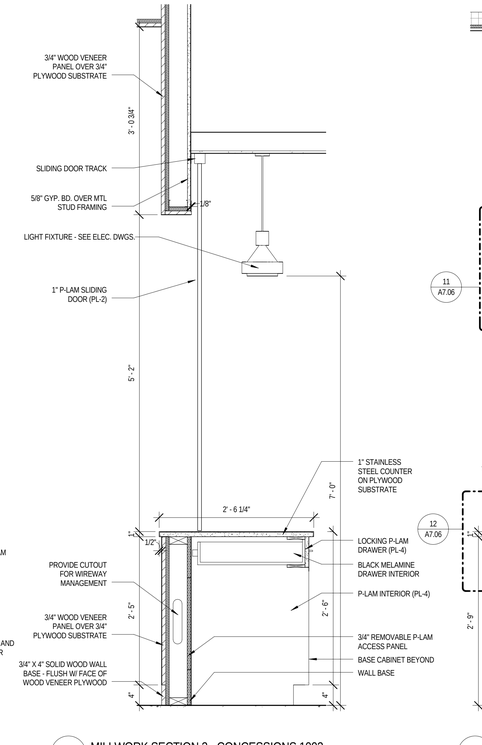
1 ENLARGED PLAN - MILLWORK - CONCESSIONS 1002
1/2" = 1'-0"



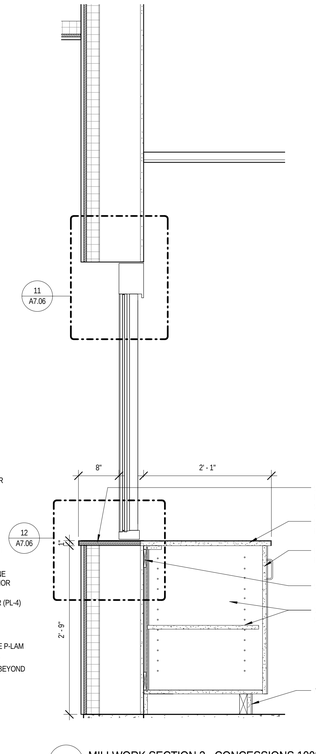
20 MILLWORK SECTION - WORK ISLAND
1" = 1'-0"



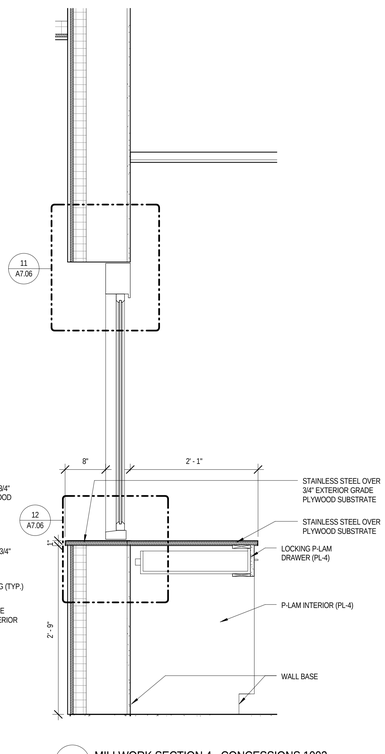
10 MILLWORK SECTION 1 - CONCESSIONS 1002
1" = 1'-0"



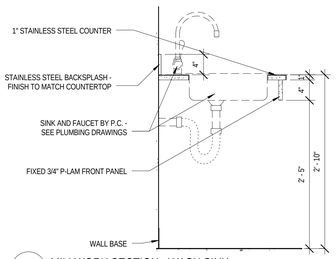
11 MILLWORK SECTION 2 - CONCESSIONS 1002
1" = 1'-0"



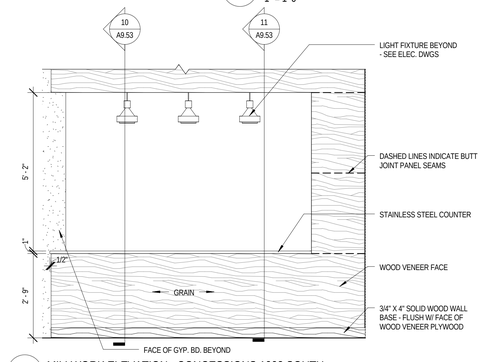
12 MILLWORK SECTION 3 - CONCESSIONS 1002
1" = 1'-0"



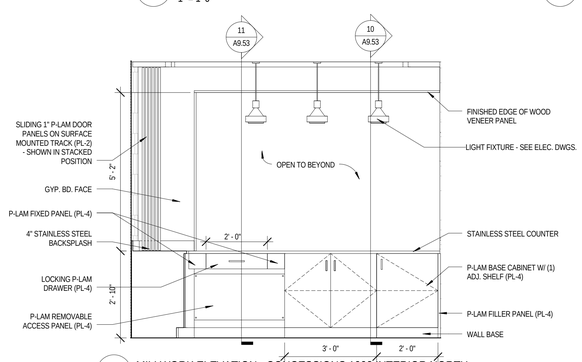
13 MILLWORK SECTION 4 - CONCESSIONS 1002
1" = 1'-0"



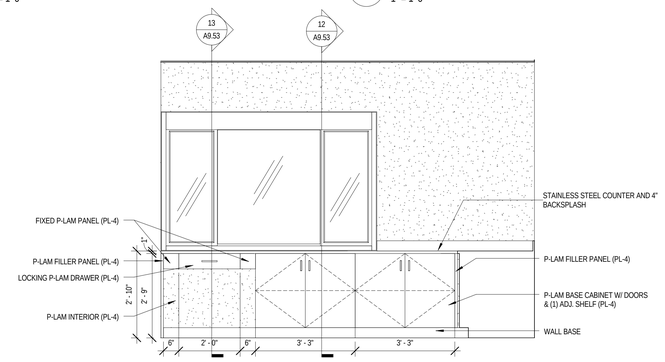
14 MILLWORK SECTION - WASH SINK
1" = 1'-0"



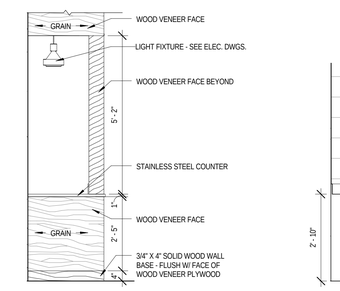
3 MILLWORK ELEVATION - CONCESSIONS 1002 SOUTH
1/2" = 1'-0"



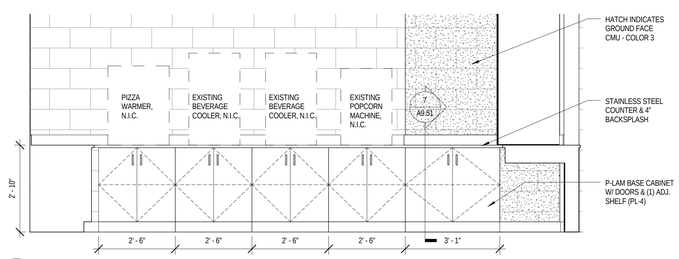
4 MILLWORK ELEVATION - CONCESSIONS 1002 INTERIOR NORTH
1/2" = 1'-0"



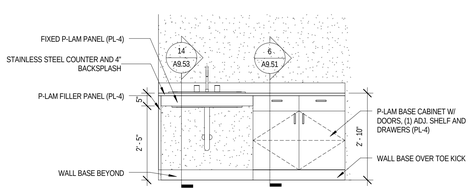
5 MILLWORK ELEVATION - CONCESSIONS 1002 INTERIOR SOUTH
1/2" = 1'-0"



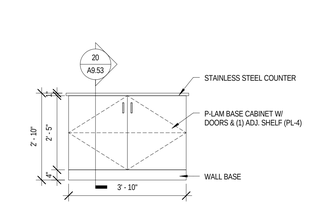
2 MILLWORK ELEVATION - CONCESSIONS 1002 WEST
1/2" = 1'-0"



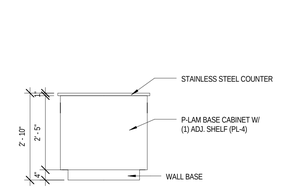
6 MILLWORK ELEVATION - CONCESSIONS 1002 INTERIOR WEST
1/2" = 1'-0"



7 MILLWORK ELEVATION - CONCESSIONS 1002 INTERIOR EAST
1/2" = 1'-0"



8 MILLWORK ELEVATION - CONCESSIONS 1002 ISLAND NORTH
1/2" = 1'-0"



9 MILLWORK ELEVATION - CONCESSIONS 1002 ISLAND EAST
1/2" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

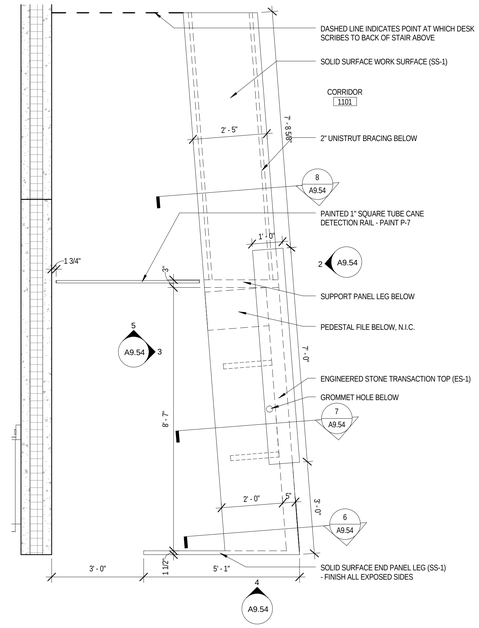
SHEET TITLE:
MILLWORK DETAILS

SHEET NUMBER:
A9.53

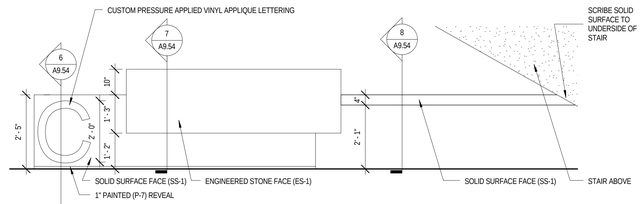
8/28/2015 4:21:55 PM

MILLWORK FINISH TYPES:

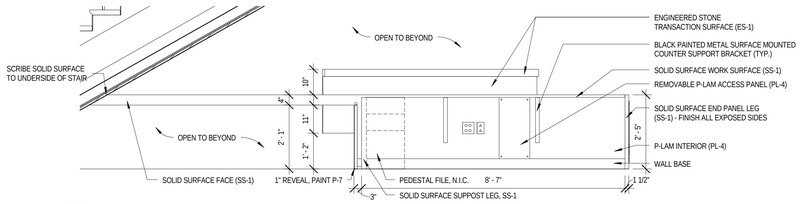
TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
ES-1	FRONT DESK ENGINEERED STONE	CAESARSTONE	1141 PURE WHITE
PL-1	GRAPHIC PLASTIC LAMINATE	FORMICA	6610-58 ENDLESS GREYSTONE
PL-2	WHITE PLASTIC LAMINATE	FORMICA	933-58 MISSION WHITE
PL-3	NOT USED		
PL-4	BLACK PLASTIC LAMINATE	FORMICA	909-58 BLACK
SS-1	BLACK SOLID SURFACE	MEGANITE	710 EBONY GRANITE
SS-2	WHITE SOLID SURFACE	MEGANITE	BRIGHT WHITE 001



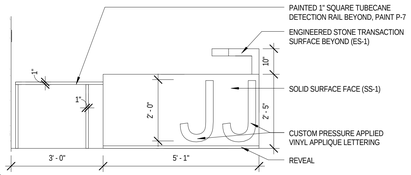
1 ENLARGED PLAN - MILLWORK - CORRIDOR 1101 RECEPTION
1/2" = 1'-0"



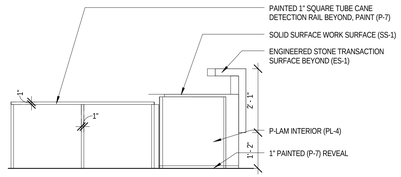
2 MILLWORK ELEVATION - CORRIDOR 1101 RECEPTION WEST
1/2" = 1'-0"



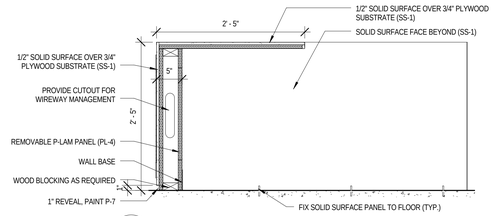
3 MILLWORK ELEVATION - CORRIDOR 1101 RECEPTION EAST
1/2" = 1'-0"



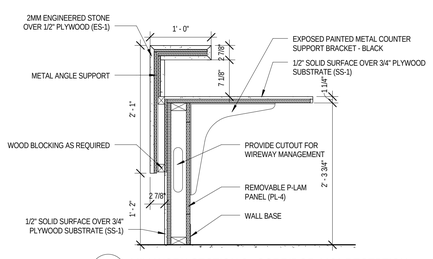
4 MILLWORK ELEVATION - CORRIDOR 1101 RECEPTION NORTH - A
1/2" = 1'-0"



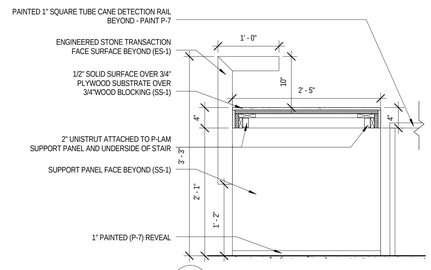
5 MILLWORK ELEVATION - CORRIDOR 1101 RECEPTION NORTH - B
1/2" = 1'-0"



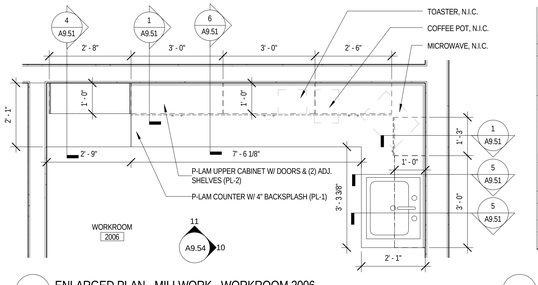
6 MILLWORK SECTION 1 - CORRIDOR 1101 RECEPTION
1" = 1'-0"



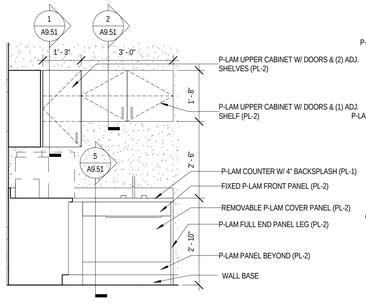
7 MILLWORK SECTION 2 - CORRIDOR 1101 RECEPTION
1" = 1'-0"



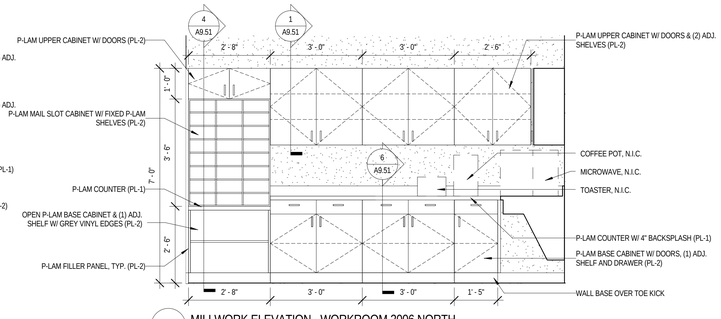
8 MILLWORK SECTION 4 - CORRIDOR 1101 RECEPTION
1" = 1'-0"



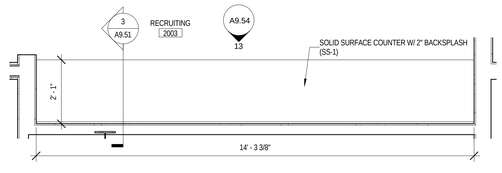
9 ENLARGED PLAN - MILLWORK - WORKROOM 2006
1/2" = 1'-0"



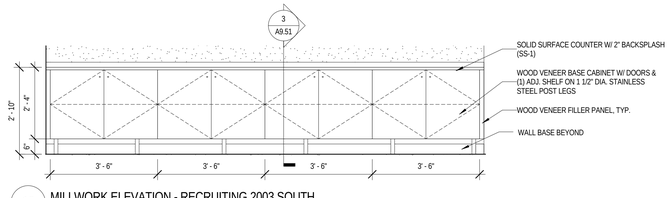
10 MILLWORK ELEVATION - WORKROOM 2006 EAST
1/2" = 1'-0"



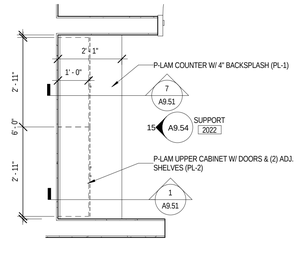
11 MILLWORK ELEVATION - WORKROOM 2006 NORTH
1/2" = 1'-0"



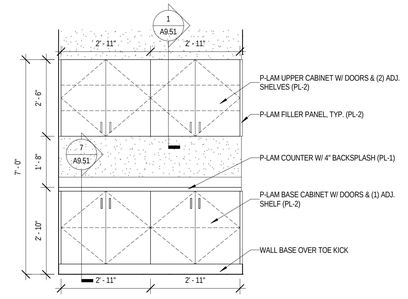
12 ENLARGED PLAN - MILLWORK - RECRUITING 2003
1/2" = 1'-0"



13 MILLWORK ELEVATION - RECRUITING 2003 SOUTH
1/2" = 1'-0"



14 ENLARGED PLAN - MILLWORK - SUPPORT 2022
1/2" = 1'-0"



15 MILLWORK ELEVATION - SUPPORT 2022 WEST
1/2" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
MILLWORK DETAILS

SHEET NUMBER:
A9.54

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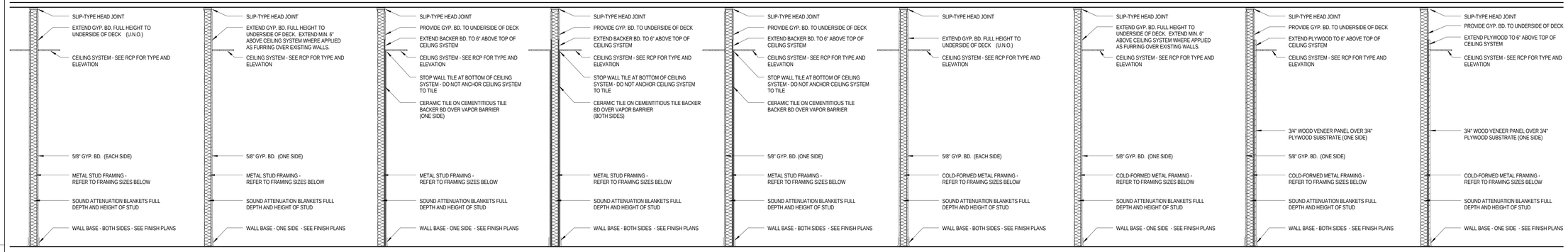


S1 - METAL FRAMING WITH GYP BD EACH SIDE
CONSTRUCT PER UL U419 AT SMOKE AND 1-HR FIRE RESISTANCE RATED PARTITIONS

S1A	3-5/8" METAL STUD FRAMING
S1B	6" METAL STUD FRAMING
S1C	1-5/8" METAL STUD FRAMING
S1D	2-1/2" METAL STUD FRAMING
S1E	4" METAL STUD FRAMING

S2 - METAL FRAMING WITH GYP BD ONE SIDE

S2A	3-5/8" METAL STUD FRAMING
S2B	6" METAL STUD FRAMING
S2C	1-5/8" METAL STUD FRAMING
S2D	2-1/2" METAL STUD FRAMING

S3 - METAL FRAMING WITH WALL TILE ONE SIDE

S3A	3-5/8" METAL STUD FRAMING
S3B	6" METAL STUD FRAMING

S4 - METAL FRAMING WITH WALL TILE EACH SIDE

S4A	3-5/8" METAL STUD FRAMING
S4B	6" METAL STUD FRAMING

S5 - METAL FRAMING WITH TILE ONE SIDE, GYP BD ONE SIDE

S5A	3-5/8" METAL STUD FRAMING
S5B	6" METAL STUD FRAMING

C1 - COLD-FORMED METAL FRAMING WITH GYP BD EACH SIDE

C1A	4" COLD-FORMED METAL FRAMING
C1B	6" COLD-FORMED METAL FRAMING
C1C	8" COLD-FORMED METAL FRAMING

C2 - COLD-FORMED METAL FRAMING WITH GYP BD ONE SIDE

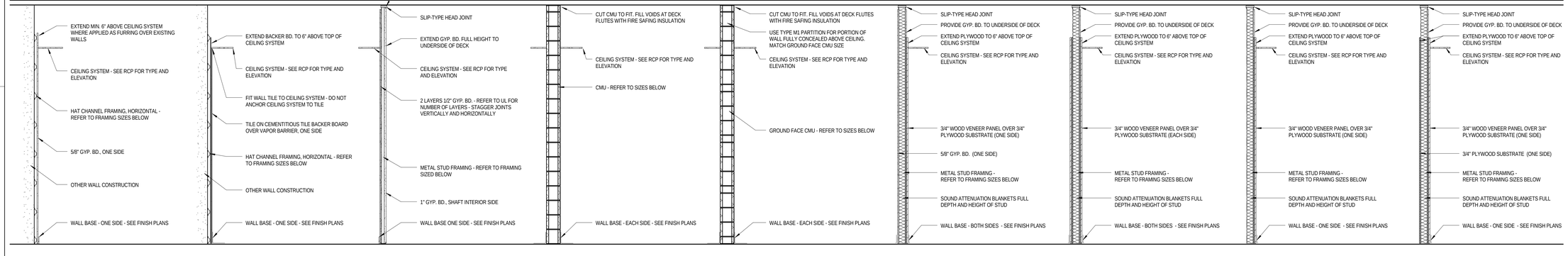
C2A	4" COLD-FORMED METAL FRAMING
C2B	6" COLD-FORMED METAL FRAMING
C2C	8" COLD-FORMED METAL FRAMING

C3 - COLD-FORMED METAL FRAMING WITH GYP BD ONE SIDE AND WOOD PANEL ONE SIDE

C3A	4" COLD-FORMED METAL FRAMING
C3B	6" COLD-FORMED METAL FRAMING
C3C	8" COLD-FORMED METAL FRAMING

C4 - COLD-FORMED METAL FRAMING WITH WOOD PANEL ONE SIDE

C4A	4" COLD-FORMED METAL FRAMING
C4B	6" COLD-FORMED METAL FRAMING
C4C	8" COLD-FORMED METAL FRAMING



F1 - METAL HAT CHANNEL FRAMING - GYP BD ONE SIDE

F1A	7/8" HAT CHANNEL FRAMING

F2 - METAL HAT CHANNEL FRAMING - TILE ONE SIDE

F2A	7/8" HAT CHANNEL FRAMING

SW - SHAFT WALL

SW1	2-1/2" C-H STUD SHAFT WALL FRAMING - 1 HR RESISTANCE - CONSTRUCT PER UL: U415 A
SW2	2-1/2" C-H STUD SHAFT WALL FRAMING. 2 HR RESISTANCE - CONSTRUCT PER UL: U415 B

M1 - MASONRY WALL - CMU

M1A	4" CMU
M1B	6" CMU
M1C	8" CMU
M1D	10" CMU
M1E	12" CMU

M2 - MASONRY WALL - GROUND FACE CMU

M2A	4" GROUND FACE CMU
M2B	6" GROUND FACE CMU
M2C	8" GROUND FACE CMU
M2D	10" GROUND FACE CMU
M2E	12" GROUND FACE CMU

W1 - METAL STUD FRAMING WITH GYP BD ONE SIDE AND WOOD PANEL ONE SIDE

W1A	3-5/8" METAL STUD FRAMING
W1B	6" METAL STUD FRAMING
W1C	1-5/8" METAL STUD FRAMING
W1D	2-1/2" METAL STUD FRAMING

W2 - METAL STUD FRAMING WITH WOOD PANEL EACH SIDE

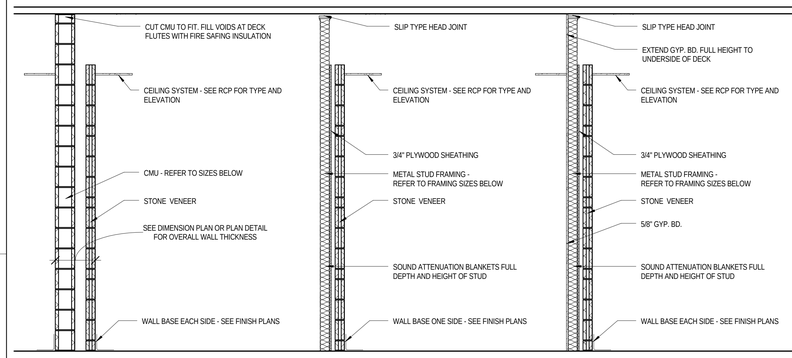
W2A	3-5/8" METAL STUD FRAMING
W2B	6" METAL STUD FRAMING
W2C	1-5/8" METAL STUD FRAMING
W2D	2-1/2" METAL STUD FRAMING

W3 - METAL STUD FRAMING WITH WOOD PANEL ONE SIDE

W3A	3-5/8" METAL STUD FRAMING
W3B	6" METAL STUD FRAMING
W3C	1-5/8" METAL STUD FRAMING
W3D	2-1/2" METAL STUD FRAMING

W4 - METAL STUD FRAMING WITH PLYWOOD ONE SIDE AND WOOD PANEL ONE SIDE

W4A	3-5/8" METAL STUD FRAMING
W4B	6" METAL STUD FRAMING
W4C	1-5/8" METAL STUD FRAMING
W4D	2-1/2" METAL STUD FRAMING



V1 - MASONRY WALL WITH STONE VENEER

V1A	4" CMU WITH STONE VENEER
V1B	6" CMU WITH STONE VENEER
V1C	8" CMU WITH STONE VENEER
V1D	10" CMU WITH STONE VENEER
V1E	12" CMU WITH STONE VENEER

V2 - METAL FRAMING WITH STONE VENEER

V2A	3-5/8" METAL STUD FRAMING WITH STONE VENEER
V2B	6" METAL STUD FRAMING WITH STONE VENEER

V3 - METAL FRAMING WITH GYP BD AND STONE VENEER

V3A	3-5/8" METAL STUD FRAMING WITH GYP. BD. AND STONE VENEER
V3B	6" METAL STUD FRAMING WITH GYP. BD. AND STONE VENEER

A WALL PARTITION TYPES
1/2" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PARTITION TYPES

SHEET NUMBER:
A10.00

8/28/2015 4:22:07 PM

DOOR AND FRAME SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	DETAIL GROUP	GLAZING TYPE	HARDWARE SET	REMARKS
1000.1	COMPETITION	6' - 0"	7' - 2"		HM	NHGR	HM	A	PLN DTL		15	3
1000.2	COMPETITION	6' - 0"	7' - 2"		HM	NHGR	HM	C	PLN DTL		12	3
1000.3	COMPETITION	6' - 0"	7' - 2"		HM	NHGR	HM	C	PLN DTL		16	2
1000.4	COMPETITION	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		18	2
1000.5	COMPETITION	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		13	3
1001.1	FIELD HOUSE	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		13	3
1001.2	FIELD HOUSE	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		18	2
1001.3	FIELD HOUSE	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		18	2
1001.4	FIELD HOUSE	6' - 0"	7' - 10"		HM	NHGR	HM	C	4		13	3
1001.5	FIELD HOUSE	6' - 0"	7' - 10"		HM	FL	HM	C	4		04	3
1001.6	FIELD HOUSE	6' - 0"	7' - 10"		HM	FL	HM	C	4		05	2
1001.7	FIELD HOUSE	6' - 0"	7' - 10"		HM	FL	HM	A	4		04	3
1002	CONCESSIONS	3' - 0"	7' - 0"		HM	FL	HM	A	1A		24	1
1003.1	VISITOR'S LOCKER ROOM - MEN'S	3' - 0"	7' - 2"		HM	FL	HM	A	5		24	1
1003.2	VISITOR'S LOCKER ROOM - MEN'S	3' - 0"	7' - 2"		HM	FL	HM	A	7		27	1
1004.1	VISITOR'S LOCKER ROOM - WOMEN'S	3' - 0"	7' - 2"		HM	FL	HM	A	5		24	1
1004.2	VISITOR'S LOCKER ROOM - WOMEN'S	3' - 0"	7' - 2"		HM	FL	HM	A	7		27	1
1005	TRAINING	3' - 0"	7' - 2"		HM	FL	HM	A	5		27	1
1006	TRAINING	3' - 0"	7' - 2"		HM	FL	HM	A	5		24	1
1007	TRAINING	3' - 0"	7' - 2 1/2"		HM	FL	HM	B1	5		24	1
1008	TRAINING	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1009	OFFICIAL'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		27	1
1010	OFFICIAL'S TOILET ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	7		31	
1011.1	WOMEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		23	3
1011.2	WOMEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		29	
1011.3	WOMEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	EXT		06	3
1012	LAUNDRY	3' - 0"	7' - 2"		HM	FL	HM	A	6		24	1
1013.1	MEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		23	3
1013.2	MEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		29	
1013.3	MEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	EXT		06	3
1014.1	STORAGE	6' - 0"	7' - 2"		HM	FL	HM	A	5		20	1
1014.2	STORAGE	7' - 0"	10' - 0"		HM	FL	HM	A	4		19	1
1014.3	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A	EXT		08	1
1100.1	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		01	3
1100.2	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1100.3	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1100.4	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1100.5	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	---		03	
1100.6	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	---		03	
1100.7	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	---		03	
1100.8	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	---		03	
1101.1	CORRIDOR	7' - 8 7/8"	10' - 10 1/2"		AL	FG	AL	-	EXT		01	3
1101.2	CORRIDOR	7' - 10 3/8"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1101.3	CORRIDOR	7' - 6 3/4"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1101.4	CORRIDOR	7' - 6 5/8"	10' - 10 1/2"		AL	FG	AL	-	EXT		01	3
1102A	CONTROL ROOM	3' - 0"	7' - 0"		HM	FL	HM	A	1C		24	1, 4
1102B	A/V EQUIP.	3' - 0"	7' - 0"		HM	FL	HM	A	1C		24	1
1103	MEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	8A		30	
1104	WOMEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	8A		30	
1106	JAN.	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1107	FAMILY TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	8		31	
1108A.1	ELEC.	4' - 0"	7' - 2"	1 HR	HM	FL	HM	A	5		28	1
1108A.2	ELEC.	4' - 0"	7' - 2"	1 HR	HM	FL	HM	A	EXT		25	1
1108B	EMER. ELEC.	3' - 0"	7' - 2"	1 HR	HM	FL	HM	A	5		25	1
1108C	I.T. RM.	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1109.1	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		02	2
1109.2	VESTIBULE	6' - 1"	10' - 10 1/2"		AL	FG	AL	-	EXT		01	3
1109.3	VESTIBULE	6' - 1"	8' - 10 1/2"		AL	FG	AL	-	---		03	
1109.4	VESTIBULE	6' - 1"	8' - 10 1/2"		AL	FG	AL	-	---		03	
1111.1	WOMEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	8A		26	1
1111.2	WOMEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	EXT		10	1
1112.1	MEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	8A		26	1
1112.2	MEN'S TOILET	3' - 0"	7' - 2"		HM	FL	HM	A	EXT		10	1
1113	JAN.	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1114	ELEC.	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1115	WOMEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1116	MEN'S LOCKER ROOM	3' - 0"	7' - 2"		HM	FL	HM	A	5		25	1
1117.1	VESTIBULE	6' - 0"	7' - 2"		HM	FG	HM	D	EXT		04	3
1117.2	VESTIBULE	6' - 0"	7' - 2"		HM	FG	HM	D	5		17	
1118.1	STAIR	3' - 0"	7' - 2"	2 HR	HM	NHGR	HM	A	5		26	1
1118.2	STAIR	3' - 0"	7' - 2"		HM	FL	HM	A	EXT		07	3
1119	MECH.	6' - 0"	7' - 2"		HM	FL	HM	A	5		21	1
2000	CONDITIONING	6' - 0"	9' - 0"		WD	FG	AL	-	2B		14	3
2001.1	PRESENTATION ROOM 2	3' - 0"	7' - 0"		HM	FG	HM	A	1B		23	3
2001.2	PRESENTATION ROOM 2	3' - 0"	7' - 0"		HM	FG	HM	A	1B		23	3
2001A	STORAGE	3' - 0"	7' - 0"		WD	FL	HM	A	1A		24	1
2002.1	PRESENTATION ROOM 1	3' - 0"	7' - 0"		HM	FG	HM	A	1B		23	3
2002.2	PRESENTATION ROOM 1	3' - 0"	7' - 0"		HM	FG	HM	A	1B		23	3
2003	RECRUITING	3' - 0"	7' - 0"		HM	FG	HM	A	1B		27	1
2004	TUTORING	3' - 0"	7' - 0"		WD	FG	AL	-	2		32	1
2005	OFFICE	3' - 0"	7' - 0"		WD	FL	HM	B2	1A		24	1
2007	RECEPTION	2' - 11 3/4"	7' - 0"		WD	FG	AL	-	2B		24	1
2008	A.D. OFFICE	3' - 0"	7' - 0"		WD	FL	HM	B1	1A		24	1
2009	WOMEN'S SPORTS OFFICE	3' - 0"	7' - 0"		WD	FL	HM	B1	1A		24	1
2010	CONFERENCE RM.	3' - 0"	7' - 0"		WD	FG	AL	-	2B		27	1
2011	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2012	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2013	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2014	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2015	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2016	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2017	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2018	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2019	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2020	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2021	OFFICE	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2023	STORAGE	3' - 0"	7' - 0"		WD	FL	HM	A	1A		24	1
2024	WOMEN'S COACHES LOCKER RM.	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2025	MEN'S COACHES LOCKER RM.	3' - 0"	7' - 0"		WD	FL	AL	-	2A		24	1
2100	CORRIDOR	6' - 5"	8' - 10 1/2"		WD	FG	AL	-			13A	3
2101	WOMEN'S TOILET	3' - 0"	7' - 0"		WD	FL	HM	A	1A		30	
2102	ELEV. EQUIP.	3' - 0"	7' - 0"		HM	FL	HM	A	1A		25	1
2103	I.T. RM.	3' - 0"	7' - 0"		HM	FL	HM	A	1A		25	1
2104	MEN'S TOILET	3' - 0"	7' - 0"		WD	FL	HM	A	1A		30	
2105	JAN.	3' - 0"	7' - 0"		HM	FL	HM	A	1A		25	1
2107	CORRIDOR	3' - 0"	7' - 0"		HM	FL	HM	A	EXT		24	1
2108	STAIR	3' - 0"	7' - 2"	2 HR	HM	NHGR	HM	A	3		11	

DOOR AND FRAME SCHEDULE - ALT BID 1

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	DETAIL GROUP	GLAZING TYPE	HARDWARE SET	REMARKS
1015.1	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A	4		22	1
1015.2	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A			08	1

DOOR AND FRAME SCHEDULE - ALT BID 2

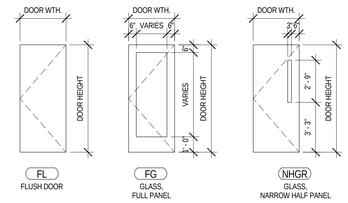
DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	DETAIL GROUP	GLAZING TYPE	HARDWARE SET	REMARKS
1015.1	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A	4		09	1
1015.2	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A			08	1

DOOR AND FRAME SCHEDULE - ALT BID 3

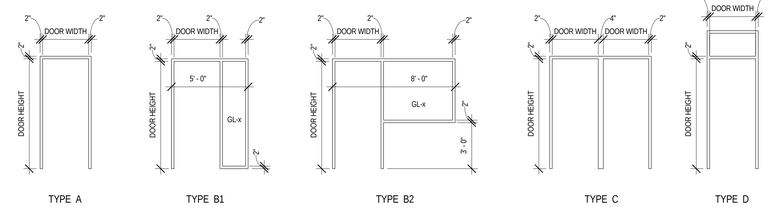
DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	DETAIL GROUP	GLAZING TYPE	HARDWARE SET	REMARKS
1015.1	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A	4		09	1
1016.1	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A	4		09	1
1016.2	STORAGE	6' - 0"	7' - 10"		HM	FL	HM	A			08	1

DOOR SCHEDULE REMARKS:

1. PREPARE FRAME FOR ELECTRIFIED STRIKE, CARD READER, AND DOOR CONTACT - REFER TO TECHNOLOGY DRAWINGS.
2. PREPARE FRAME FOR DOOR CONTACT - REFER TO TECHNOLOGY DRAWINGS.
3. PREPARE FRAME FOR CARD READER, DOOR CONTACT, AND POWER TO HARDWARE - REFER TO TECHNOLOGY DRAWINGS.
4. PROVIDE 3/4" UNDERCUT AT DOOR BOTTOM FOR RETURN AIR TRANSFER.



A DOOR TYPE ELEVATIONS
1/4" = 1'-0"



B FRAME TYPE ELEVATIONS
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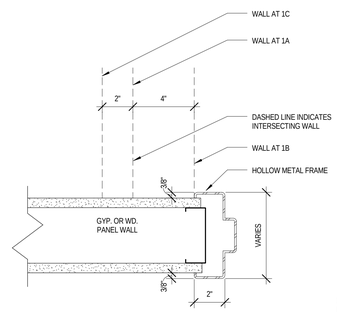
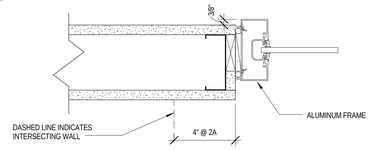
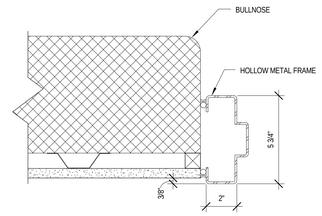


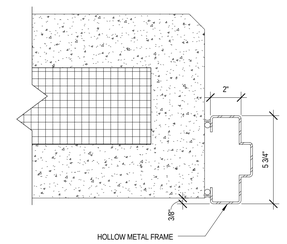
JAMB DETAIL 1



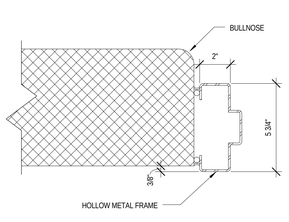
JAMB DETAIL 2



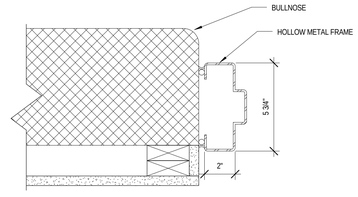
JAMB DETAIL 3



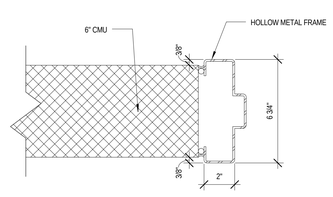
JAMB DETAIL 4



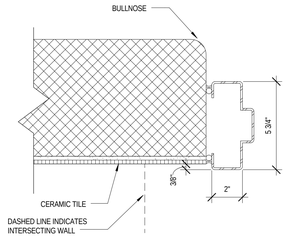
JAMB DETAIL 5



JAMB DETAIL 6



JAMB DETAIL 7



JAMB DETAIL 8

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CHICAGO, IL 60661
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1100 WARRENVILLE RD., STE. 400W
NAPERVILLE, IL 60563
P: 630.527.2320

CIVIL ENGINEERING
RUETTIGER, TONELLI & ASSOC., INC.
129 CAPISTA DR.
SHOREWOOD, IL 60404
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

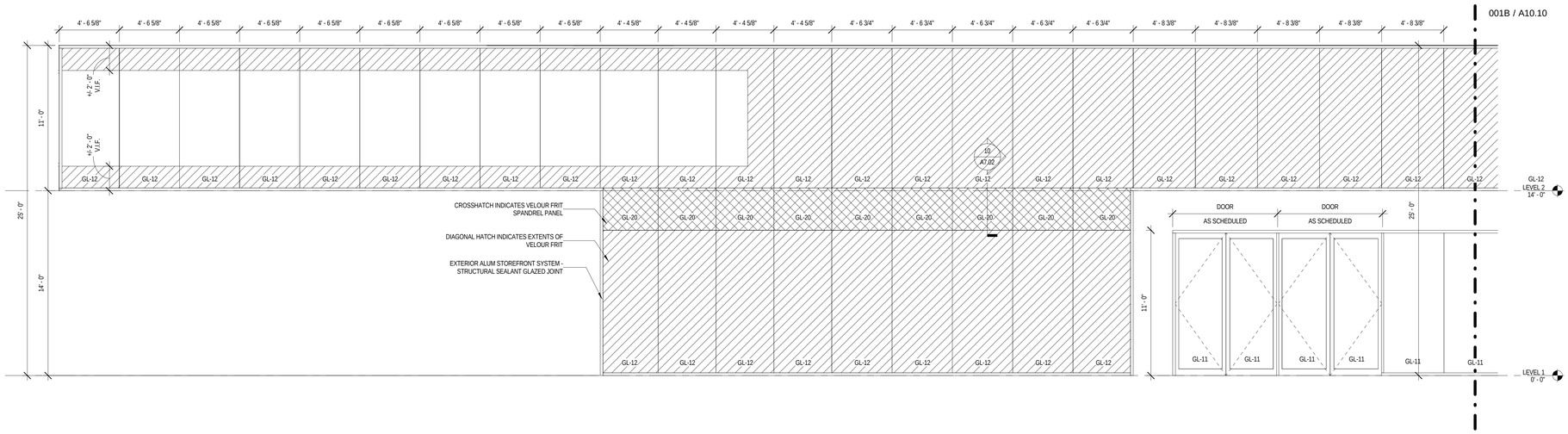
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

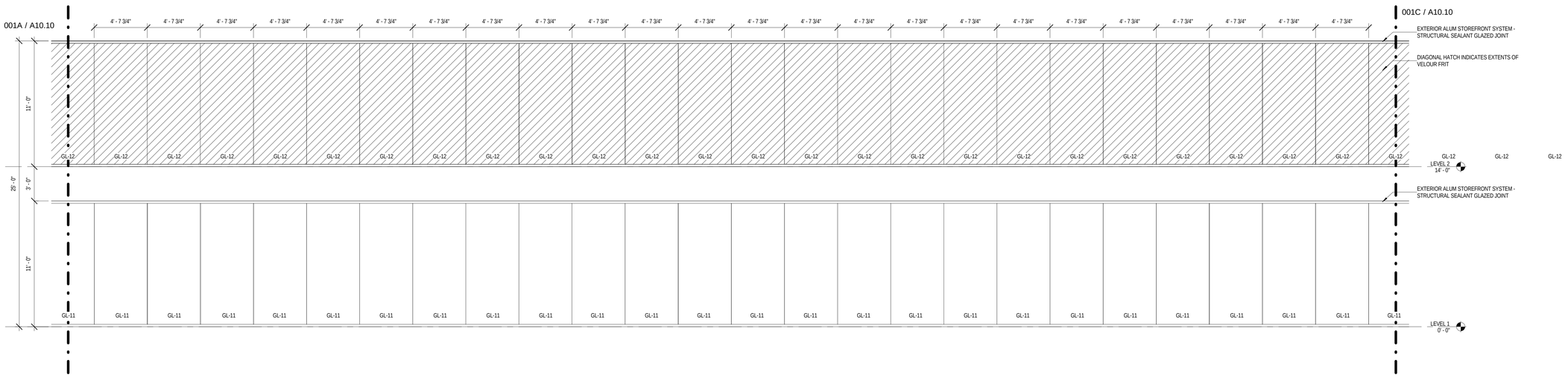
SHEET TITLE:
DOOR & FRAME SCHEDULE AND TYPES

SHEET NUMBER:
A10.01

8/28/2015 4:22:15 PM



001A EXTERIOR GLAZING - 001A
1/4" = 1'-0"



001B EXTERIOR GLAZING - 001B
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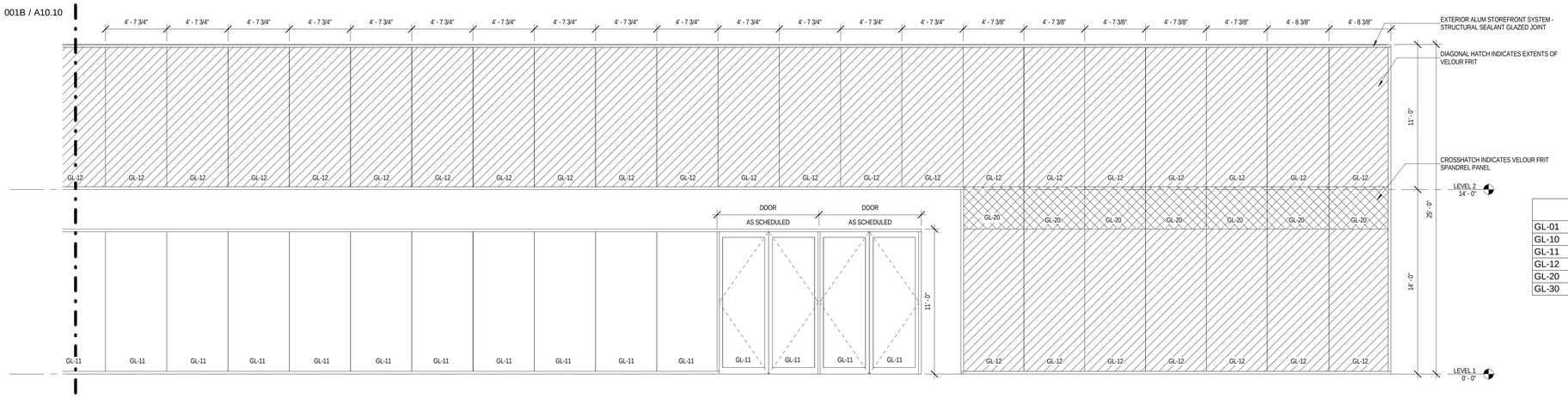

001C EXTERIOR GLAZING - 001C
1/4" = 1'-0"

GLAZING SCHEDULE

GL-01	CLEAR TEMPERED GLASS
GL-10	1" INSULATED, CLEAR TEMPERED GLASS
GL-11	1" INSULATED, CLEAR TEMPERED, TINTED GLASS
GL-12	1" INSULATED CLEAR TEMPERED GLASS WITH VELOUR FRIT
GL-20	1" INSULATED, SPANDREL GLASS
GL-30	CLEAR LAMINATED GLASS

ARCHITECT OF RECORD
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CIVIL ENGINEERING
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EXTERIOR WINDOW ELEVATIONS

SHEET NUMBER:
A10.10

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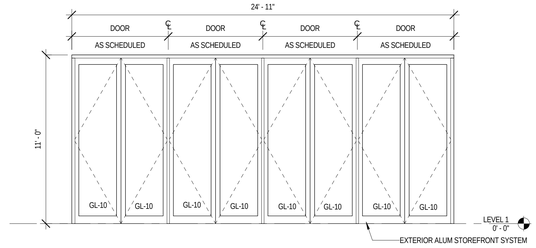

002 EXTERIOR GLAZING - 002
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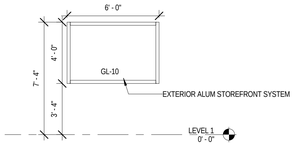

003 EXTERIOR GLAZING - 003
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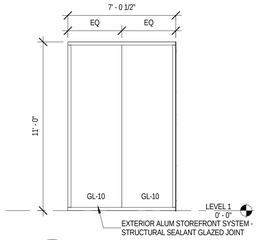

004 EXTERIOR GLAZING - 004
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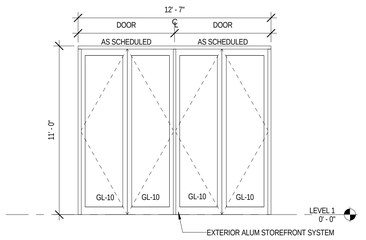

005 EXTERIOR GLAZING - 005
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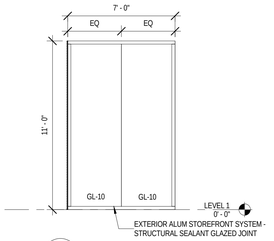

006 EXTERIOR GLAZING - 006
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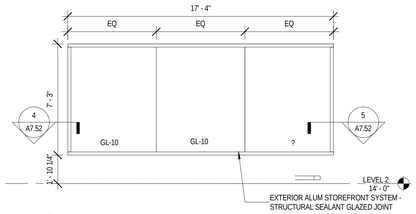

007 EXTERIOR GLAZING - 007
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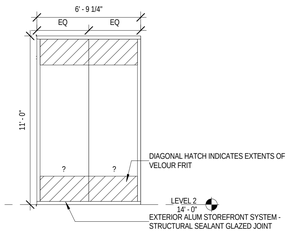

008 EXTERIOR GLAZING - 008
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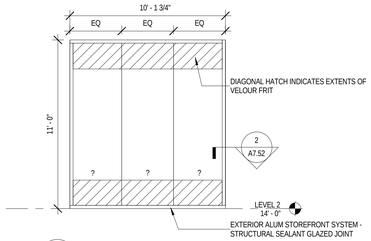

009 EXTERIOR GLAZING - 009
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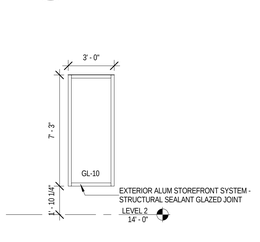
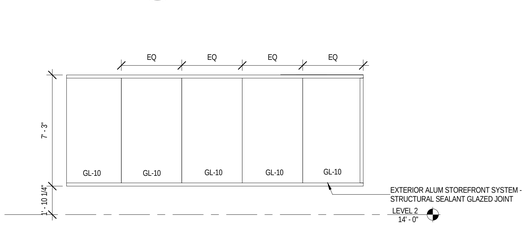


010 EXTERIOR GLAZING - 010
1/4" = 1'-0"



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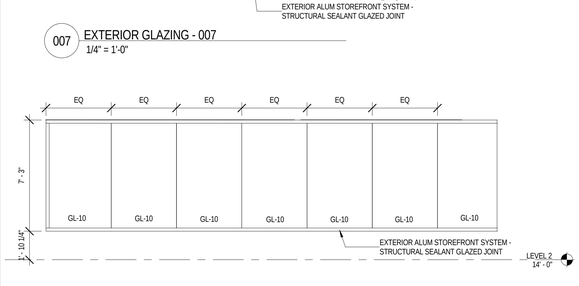

012 EXTERIOR GLAZING - 012
1/4" = 1'-0"

GLAZING SCHEDULE	
GL-01	CLEAR TEMPERED GLASS
GL-10	1" INSULATED, CLEAR TEMPERED GLASS
GL-11	1" INSULATED, CLEAR TEMPERED, TINTED GLASS
GL-12	1" INSULATED CLEAR TEMPERED GLASS WITH VELOUR FRIT
GL-20	1" INSULATED, SPANDREL GLASS
GL-30	CLEAR LAMINATED GLASS

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

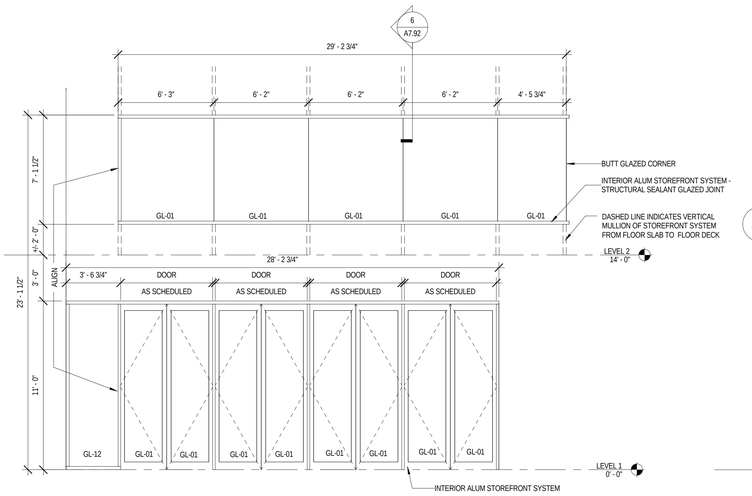
SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EXTERIOR WINDOW ELEVATIONS

SHEET NUMBER:
A10.11

8/28/2015 4:22:26 PM



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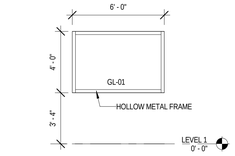

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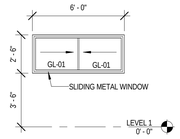

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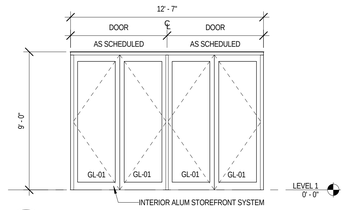

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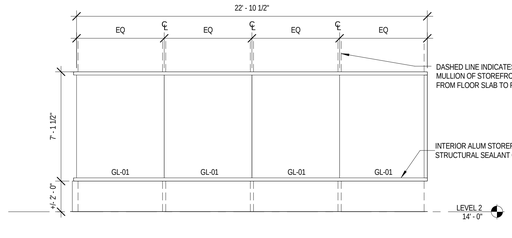

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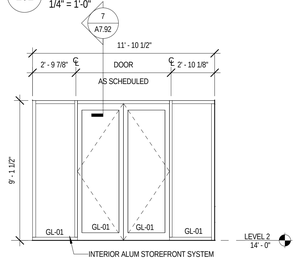

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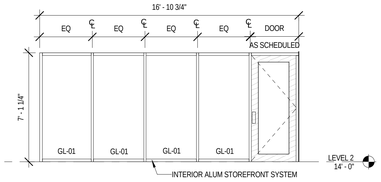

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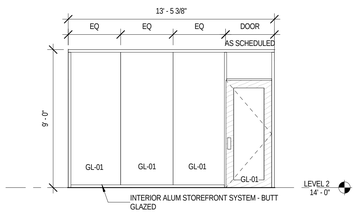

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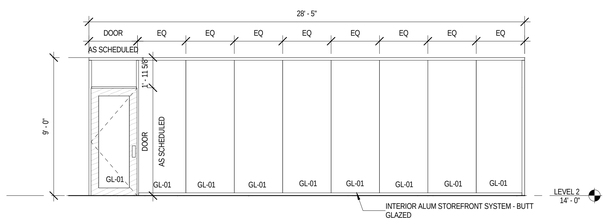

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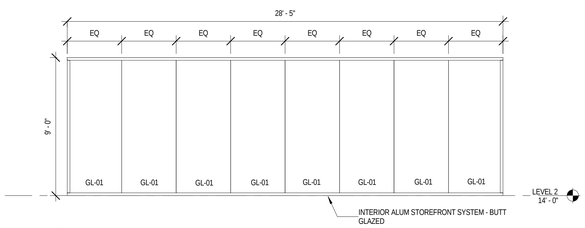

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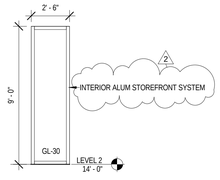
1/4" = 1'-0"



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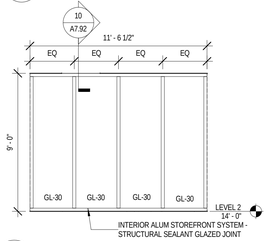
1/4" = 1'-0"



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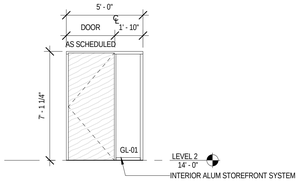
1/4" = 1'-0"



209 INTERIOR GLAZING - 209
1/4" = 1'-0"

GLAZING SCHEDULE

GL-01	CLEAR TEMPERED GLASS
GL-10	1" INSULATED, CLEAR TEMPERED GLASS
GL-11	1" INSULATED, CLEAR TEMPERED, TINTED GLASS
GL-12	1" INSULATED CLEAR TEMPERED GLASS WITH VELOUR FRIT
GL-20	1" INSULATED, SPANDREL GLASS
GL-30	CLEAR LAMINATED GLASS

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MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
INTERIOR WINDOW ELEVATIONS

SHEET NUMBER:
A10.12

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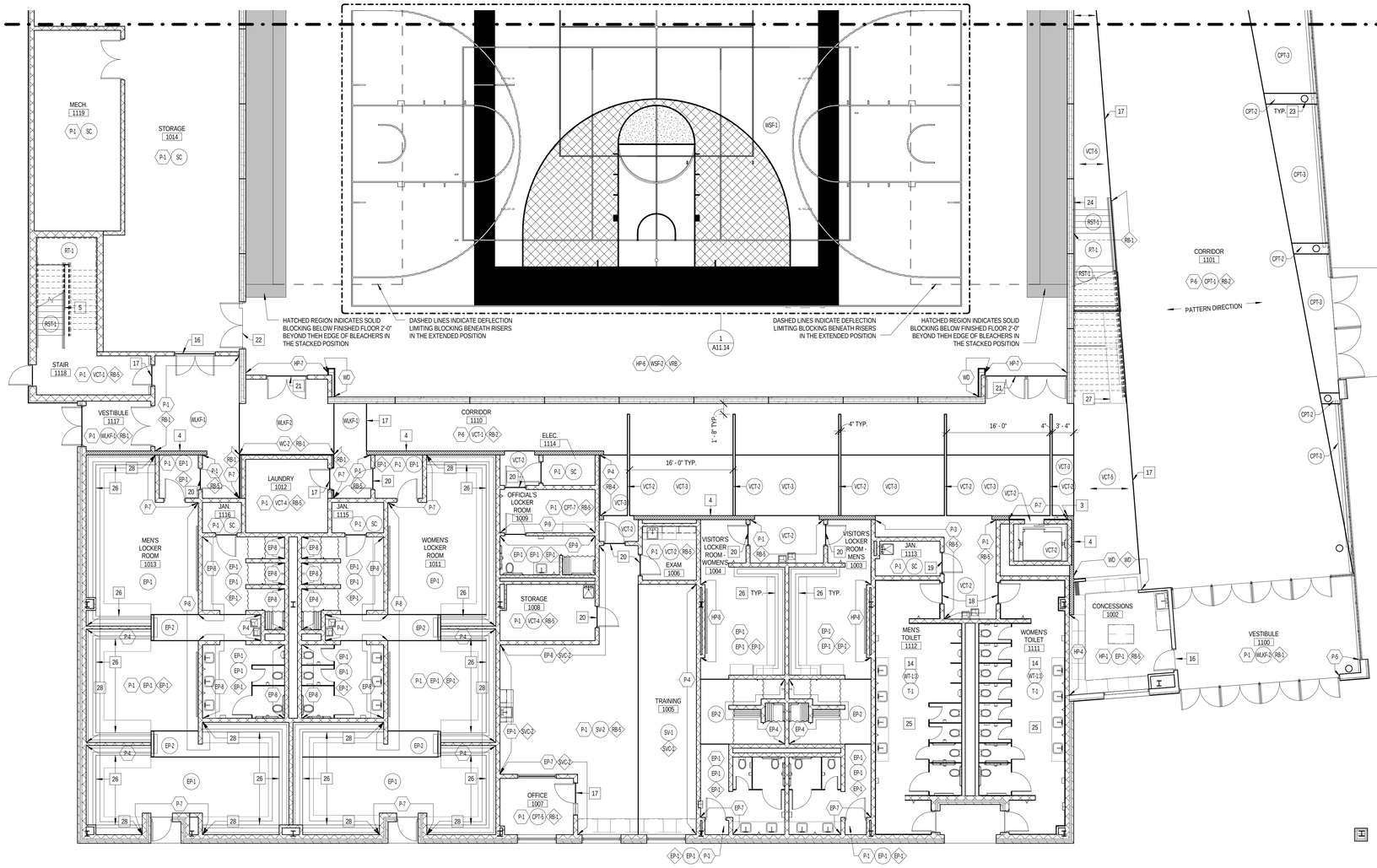

1 LEVEL 1 - AREA 1 FINISH PLAN
1/8" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GI039 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M. GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE 1 WALL BASE TYPE 1 FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
22. PROVIDE TRANS-6 AT FLOORING TRANSITION
23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
26. PAINT CMU HP-4 BELOW LOCKERS
27. PROVIDE RB-5 TO INSIDE PERIMETER OF MILLWORK DESK
28. PROVIDE PRESSURE APPLIED VINYL LETTERING WITHIN EXTENTS INDICATED @ 7'-8" TO BOTTOM OF LETTERING. FONT: IMPACT, FONT HEIGHT: 14"H
29. INSTALL FRP FROM 0'-4" A.F.F. TO 5'-0" A.F.F. AND EXTEND PANELS 3'-0" FROM CORNER OF WALL BEHIND SINK
30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL S3
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

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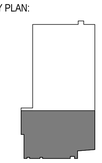
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



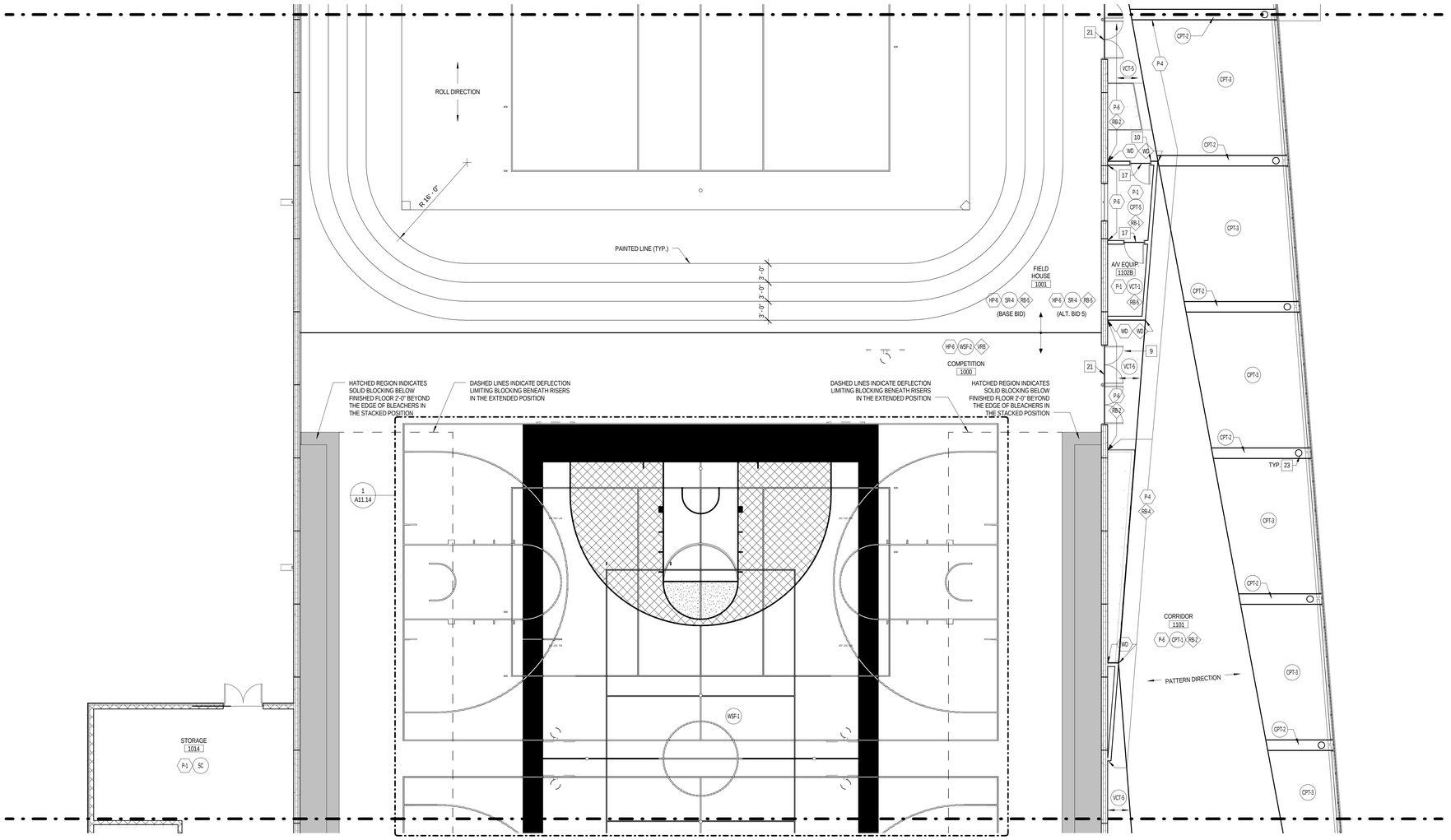
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 FINISH PLAN AREA 1

SHEET NUMBER:
A11.11

8/28/2015 4:22:43 PM



1 LEVEL 1 - AREA 2 FINISH PLAN
1/8" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GG39 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M, GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FIELD HOUSE FINISH PLAN GENERAL NOTES:

1. ALL FLOOR STRIPING SHALL BE 2" UNLESS NOTED OTHERWISE
2. ALL FLOOR STRIPING SHALL CONFORM TO NCAA REQUIREMENTS
3. PROVIDE 1" GAP BETWEEN BASKETBALL COMPETITION COURT STRIPING AND VOLLEYBALL COMPETITION COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
4. PROVIDE 1" GAP BETWEEN BASKETBALL PRACTICE COURT STRIPING AND VOLLEYBALL PRACTICE COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
5. ALL PAINT STRIPING COLORS SHALL BE SELECTED BY ARCHITECT
6. ARCHITECT SHALL PROVIDE ALL ARTWORK

FIELD HOUSE FINISH PLAN REFERENCE NOTES:

1. HATCHED AREA INDICATES WOOD FLOORING TO RECEIVE WHITE WASH STAIN
2. HATCHED AREA INDICATES SOLID PURPLE PAINT
3. FLOOR SLEEVE
4. DASHED LINES INDICATE 24" WIDE PAINTED FREE THROW STRIPE - COORDINATE LOCATION WITH OVERHEAD BACKSTOPS
5. LINE AT WHICH SECOND GRADE MAPLE TRANSITIONS TO THIRD GRADE MAPLE
6. PAINTED NJCAA LOGO GRAPHIC
7. HATCH INDICATES SOLID PAINTED FIELD (6'-0" @ N/S SIDES, 3'-2" @ E/W SIDES)
8. LINES RECEIVE NO PAINT

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE 1 WALL BASE TYPE 1 FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
22. PROVIDE TRANS-6 AT FLOORING TRANSITION
23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
26. PAINT CMU HP-4 BELOW LOCKERS
27. PROVIDE RB-5 TO INSIDE PERIMETER OF MILLWORK DESK
28. PROVIDE PRESSURE APPLIED VINYL LETTERING WITHIN EXTENTS INDICATED @ 7'-8" TO BOTTOM OF LETTERING. FONT: IMPACT, FONT HEIGHT: 14"H
29. INSTALL FRP FROM 0'-4" A.F.F. TO 5'-0" A.F.F. AND EXTEND PANELS 3'-0" FROM CORNER OF WALL BEHIND SINK
30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL S3
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

dka

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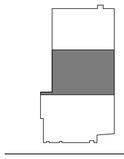
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



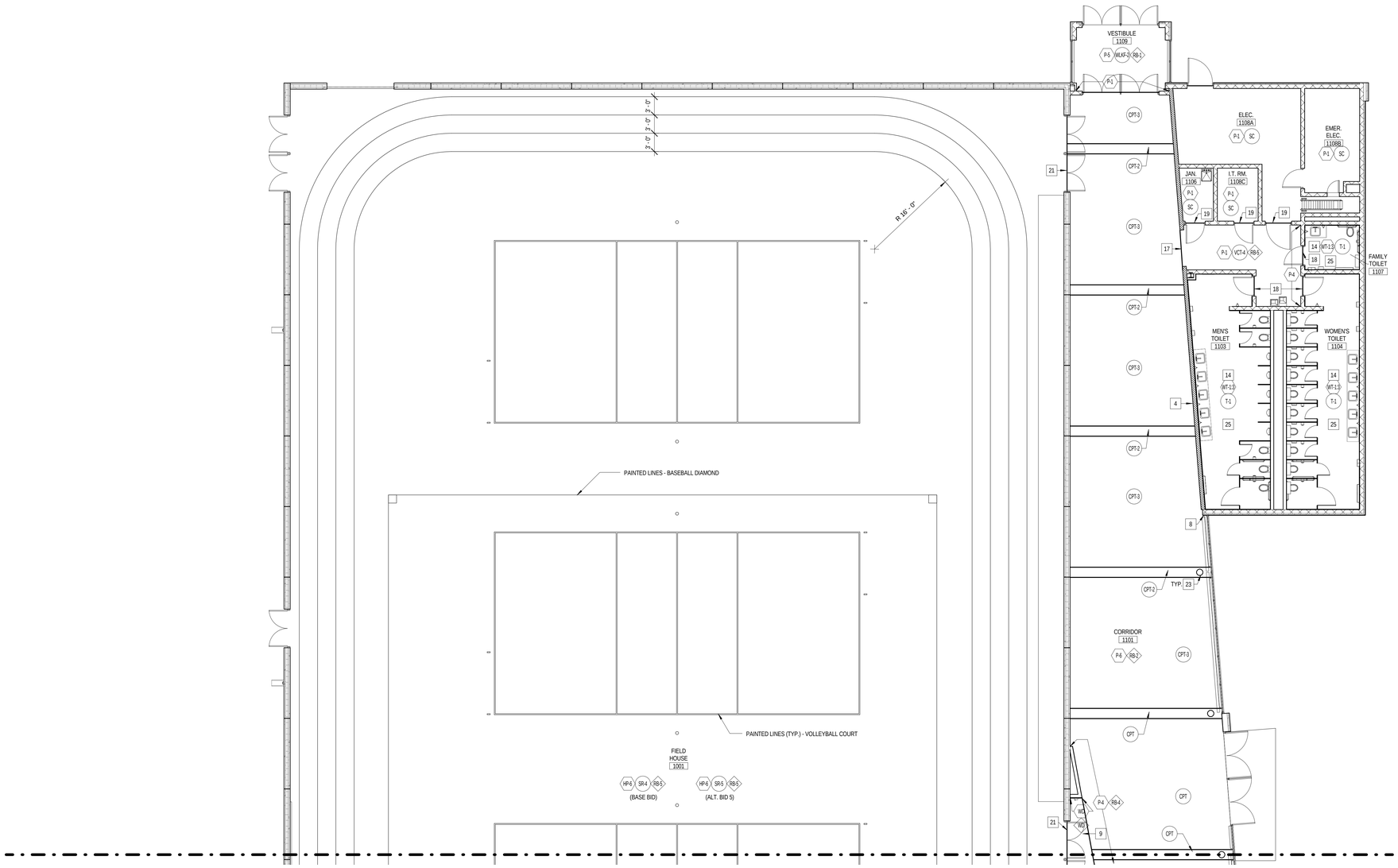
SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 FINISH PLAN AREA 2

SHEET NUMBER:
A11.12

8/28/2015 4:22:48 PM



1 LEVEL 1 - AREA 3 FINISH PLAN
1/8" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GO39 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M, GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FIELD HOUSE FINISH PLAN GENERAL NOTES:

1. ALL FLOOR STRIPING SHALL BE 2" UNLESS NOTED OTHERWISE
2. ALL FLOOR STRIPING SHALL CONFORM TO NCAA REQUIREMENTS
3. PROVIDE 1" GAP BETWEEN BASKETBALL COMPETITION COURT STRIPING AND VOLLEYBALL COMPETITION COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
4. PROVIDE 1" GAP BETWEEN BASKETBALL PRACTICE COURT STRIPING AND VOLLEYBALL PRACTICE COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
5. ALL PAINT STRIPING COLORS SHALL BE SELECTED BY ARCHITECT
6. ARCHITECT SHALL PROVIDE ALL ARTWORK

FIELD HOUSE FINISH PLAN REFERENCE NOTES:

1. HATCHED AREA INDICATES WOOD FLOORING TO RECEIVE WHITE WASH STAIN
2. HATCHED AREA INDICATES SOLID PURPLE PAINT
3. FLOOR SLEEVE
4. DASHED LINES INDICATE 24" WIDE PAINTED FREE THROW STRIPE - COORDINATE LOCATION WITH OVERHEAD BACKSTOPS
5. LINE AT WHICH SECOND GRADE MAPLE TRANSITIONS TO THIRD GRADE MAPLE
6. PAINTED NJCAA LOGO GRAPHIC
7. HATCH INDICATES SOLID PAINTED FIELD (6'-0" @ N/S SIDES, 3'-2" @ E/W SIDES)
8. LINES RECEIVE NO PAINT

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE · 1 WALL BASE TYPE · 1 FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
22. PROVIDE TRANS-6 AT FLOORING TRANSITION
23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
26. PAINT CMU HP-4 BELOW LOCKERS
27. PROVIDE RB-5 TO INSIDE PERIMETER OF MILLWORK DESK
28. PROVIDE PRESSURE APPLIED VINYL LETTERING WITHIN EXTENTS INDICATED @ 7'-8" TO BOTTOM OF LETTERING. FONT: IMPACT, FONT HEIGHT: 14'H
29. INSTALL FRP FROM 0'-4" A.F.F. TO 5'-0" A.F.F. AND EXTEND PANELS 3'-0" FROM CORNER OF WALL BEHIND SINK
30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL 53
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

dka

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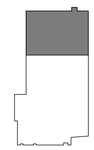
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 FINISH PLAN AREA 3

SHEET NUMBER:
A11.13

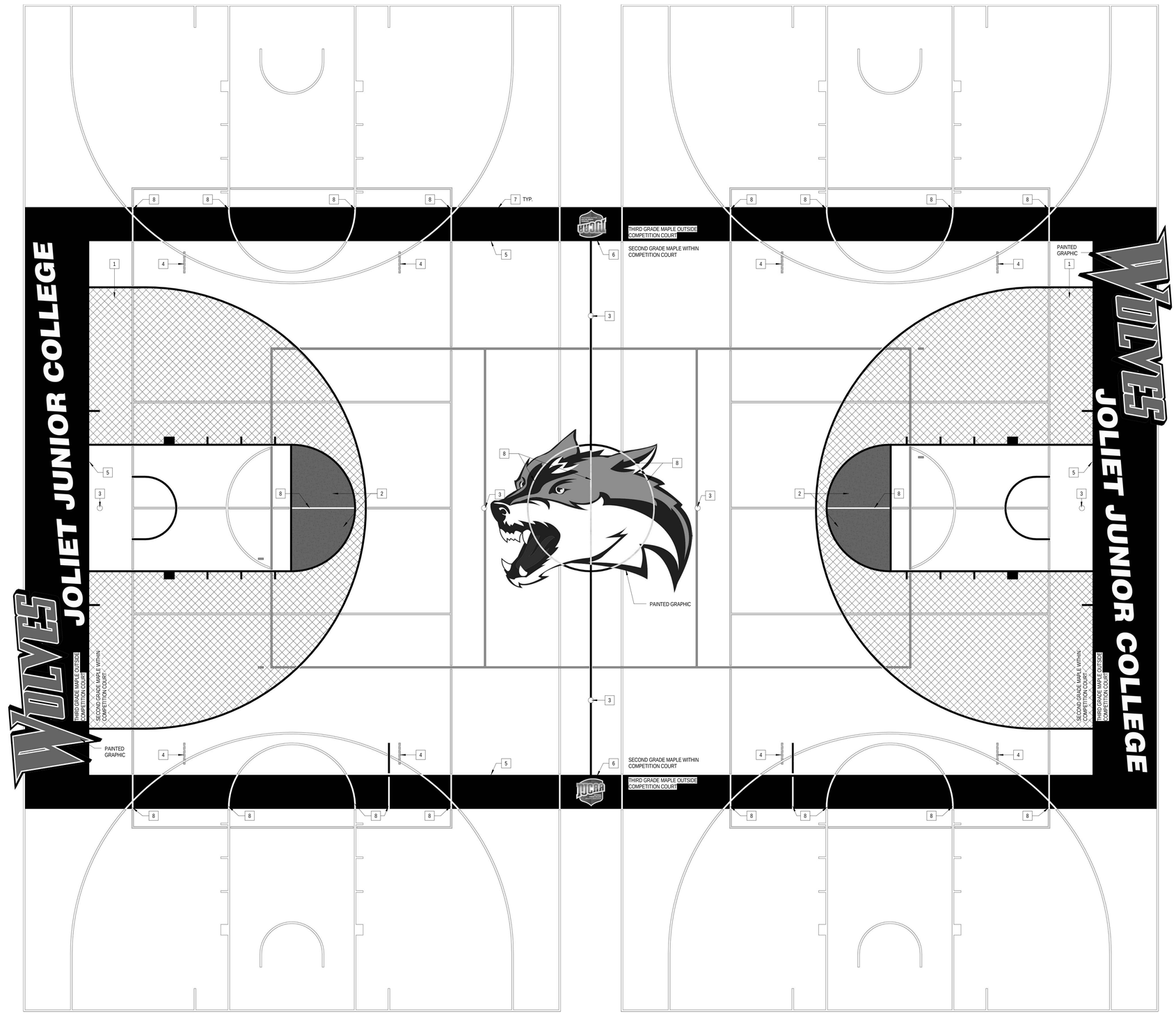
8/28/2015 4:22:52 PM

FIELD HOUSE FINISH PLAN GENERAL NOTES:

1. ALL FLOOR STRIPING SHALL BE 2" UNLESS NOTED OTHERWISE
2. ALL FLOOR STRIPING SHALL CONFORM TO NCAA REQUIREMENTS
3. PROVIDE 1" GAP BETWEEN BASKETBALL COMPETITION COURT STRIPING AND VOLLEYBALL COMPETITION COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
4. PROVIDE 1" GAP BETWEEN BASKETBALL PRACTICE COURT STRIPING AND VOLLEYBALL PRACTICE COURT STRIPING WHERE STRIPING INTERSECTS - BASKETBALL LINES SHALL BE CONTINUOUS
5. ALL PAINT STRIPING COLORS SHALL BE SELECTED BY ARCHITECT
6. ARCHITECT SHALL PROVIDE ALL ARTWORK

FIELD HOUSE FINISH PLAN REFERENCE NOTES:

1. HATCHED AREA INDICATES WOOD FLOORING TO RECEIVE WHITE WASH STAIN
2. HATCHED AREA INDICATES SOLID PURPLE PAINT
3. FLOOR SLEEVE
4. DASHED LINES INDICATE 24" WIDE PAINTED FREE THROW STRIPE - COORDINATE LOCATION WITH OVERHEAD BACKSTOPS
5. LINE AT WHICH SECOND GRADE MAPLE TRANSITIONS TO THIRD GRADE MAPLE
6. PAINTED NJCAA LOGO GRAPHIC
7. HATCH INDICATES SOLID PAINTED FIELD (6'-0" @ N/S SIDES, 3'-2" @ E/W SIDES)
8. LINES RECEIVE NO PAINT



1 LEVEL 1 - FINISH PLAN - FIELD HOUSE STRIPING
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 FINISH PLAN
FIELD HOUSE
STRIPING

SHEET NUMBER:
A11.14

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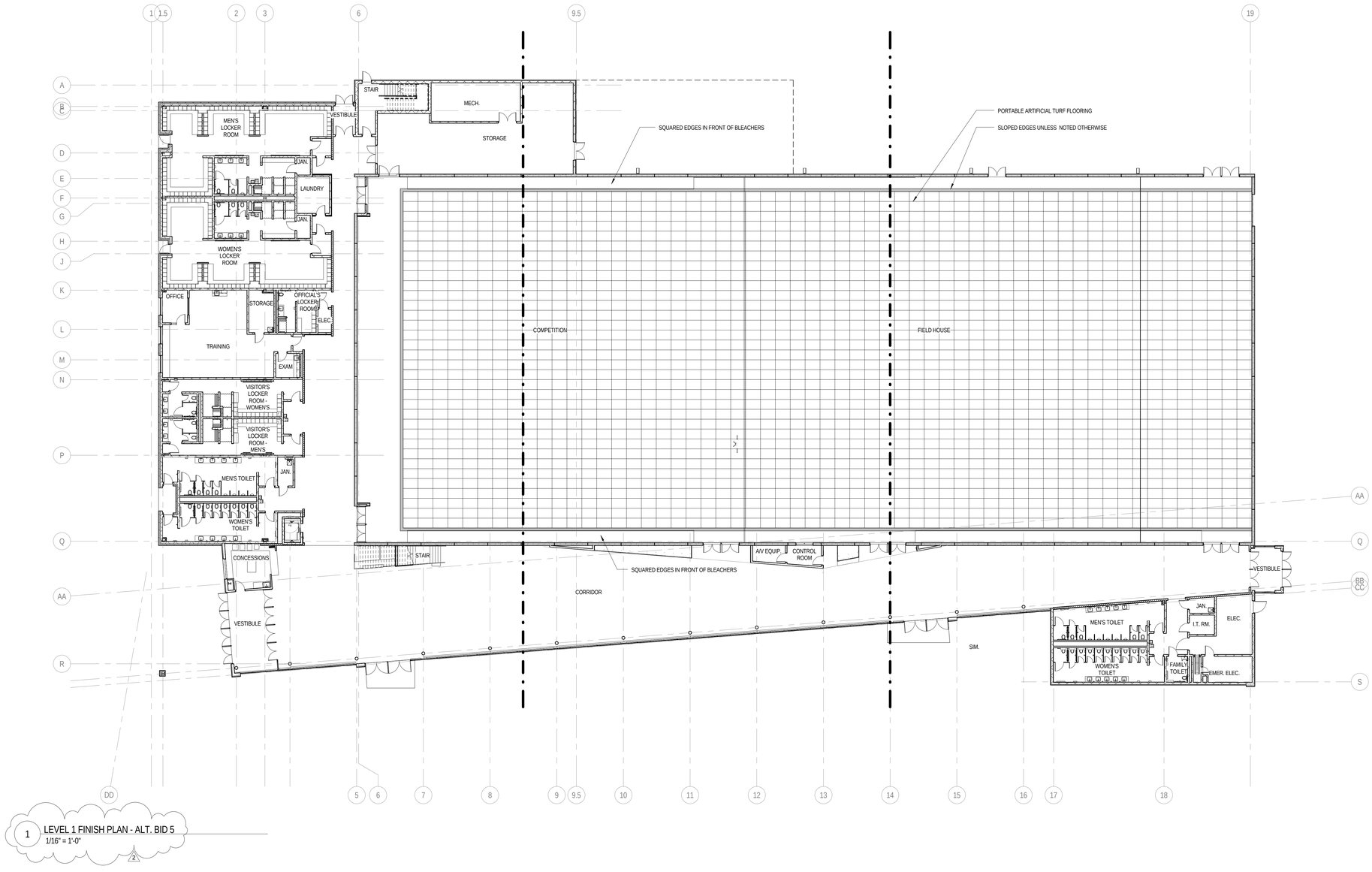

1 LEVEL 1 FINISH PLAN - ALT. BID 5
1/16" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15

NO:	DESCRIPTION:	DATE:
2	BP2 - ADDENDUM 2	8/6/15

SHEET TITLE:
LEVEL 1 FINISH PLAN - ALT. BID 5

SHEET NUMBER:
A11.15

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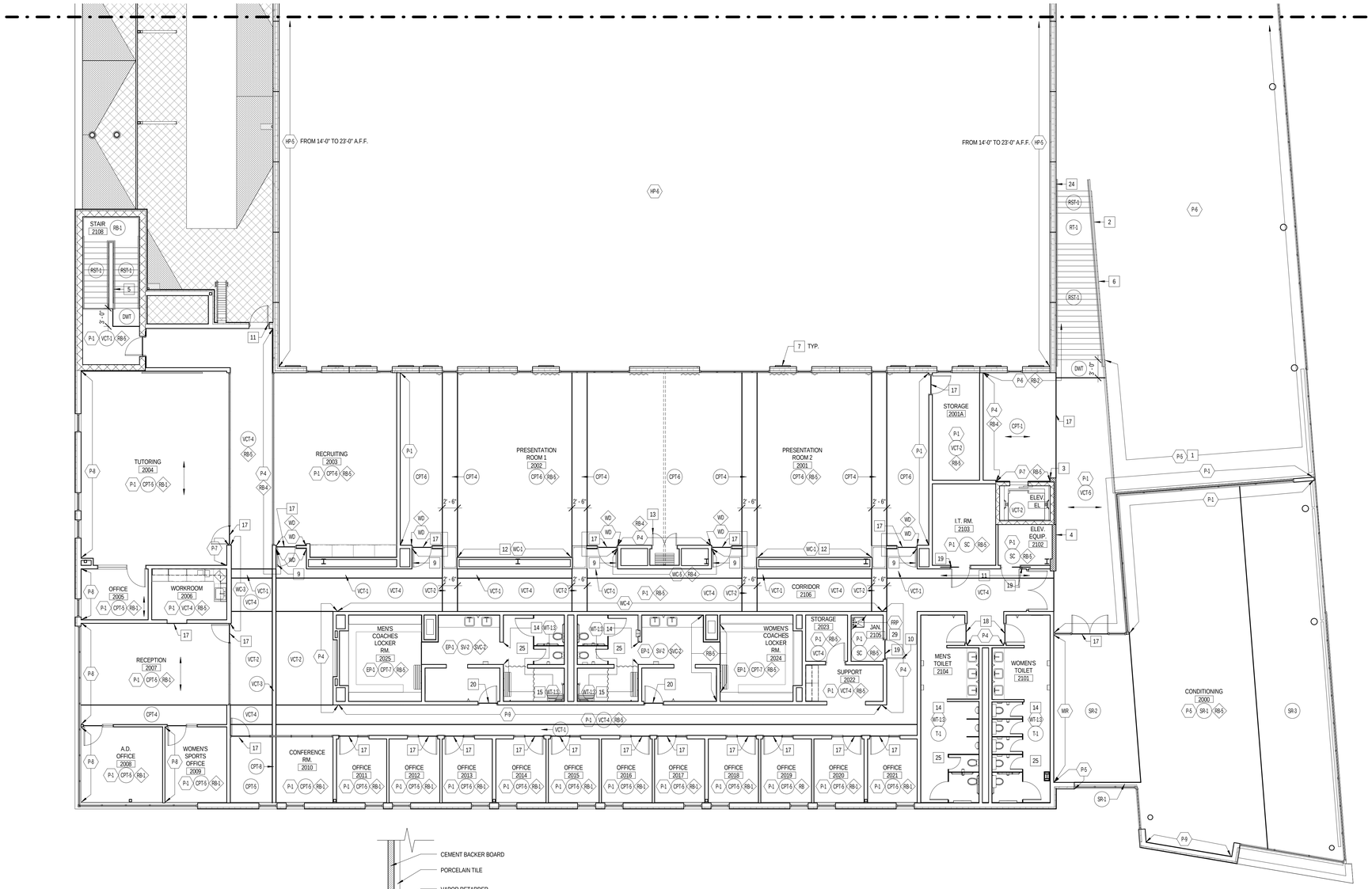
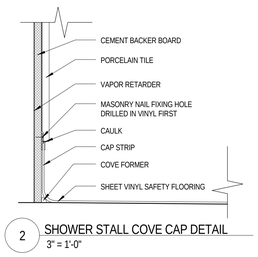


1 LEVEL 2 - AREA 1 FINISH PLAN
1/8" = 1'-0"



2 SHOWER STALL COVE CAP DETAIL
3" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GG99 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M, GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE 1 WALL BASE TYPE 1 FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
22. PROVIDE TRANS-6 AT FLOORING TRANSITION
23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
26. PAINT CMU HP-4 BELOW LOCKERS
27. PROVIDE RB-5 TO INSIDE PERIMETER OF MILLWORK DESK
28. PROVIDE PRESSURE APPLIED VINYL LETTERING WITHIN EXTENTS INDICATED @ 7'-8" TO BOTTOM OF LETTERING. FONT: IMPACT, FONT HEIGHT: 14"H
29. INSTALL FRP FROM 0'-4" A.F.F. TO 5'-0" A.F.F. AND EXTEND PANELS 3'-0" FROM CORNER OF WALL BEHIND SINK
30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL 53
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

ARCHITECT OF RECORD
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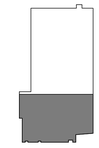
JOLIET JUNIOR COLLEGE
MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 FINISH PLAN AREA 1

SHEET NUMBER:
A11.21

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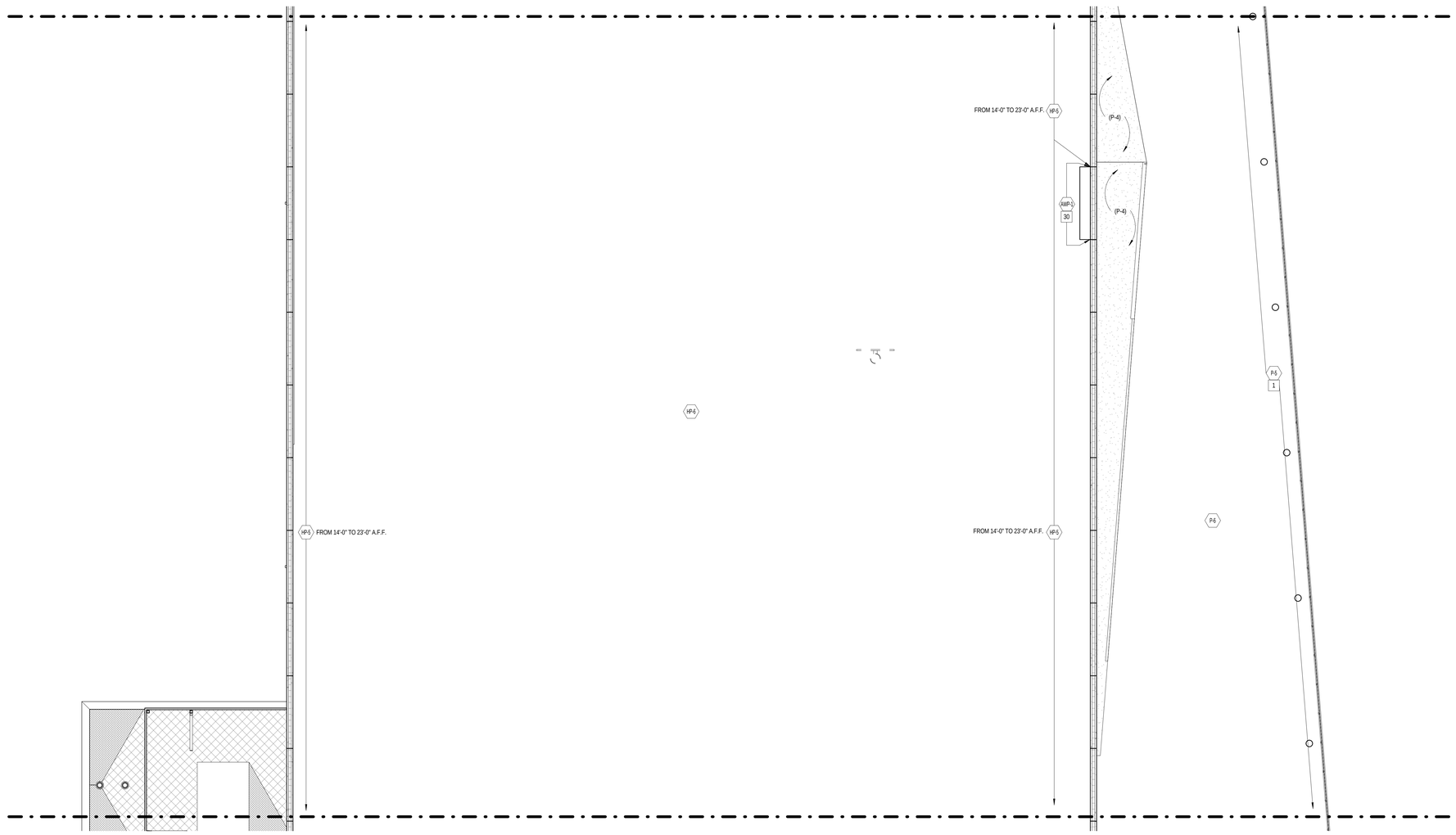

1 LEVEL 2 - AREA 2 FINISH PLAN
1/8" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GG99 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M, GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE ◇1 WALL BASE TYPE (1) FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
22. PROVIDE TRANS-6 AT FLOORING TRANSITION
23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
26. PAINT CMU HP-4 BELOW LOCKERS
27. PROVIDE RB-5 TO INSIDE PERIMETER OF MILLWORK DESK
28. PROVIDE PRESSURE APPLIED VINYL LETTERING WITHIN EXTENTS INDICATED @ 7'-8" TO BOTTOM OF LETTERING. FONT: IMPACT, FONT HEIGHT: 14"H
29. INSTALL FRP FROM 0'-4" A.F.F. TO 5'-0" A.F.F. AND EXTEND PANELS 3'-0" FROM CORNER OF WALL BEHIND SINK
30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL 53
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

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JOLIET JUNIOR COLLEGE
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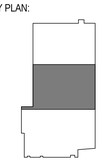
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 FINISH PLAN
AREA 2

SHEET NUMBER:
A11.22

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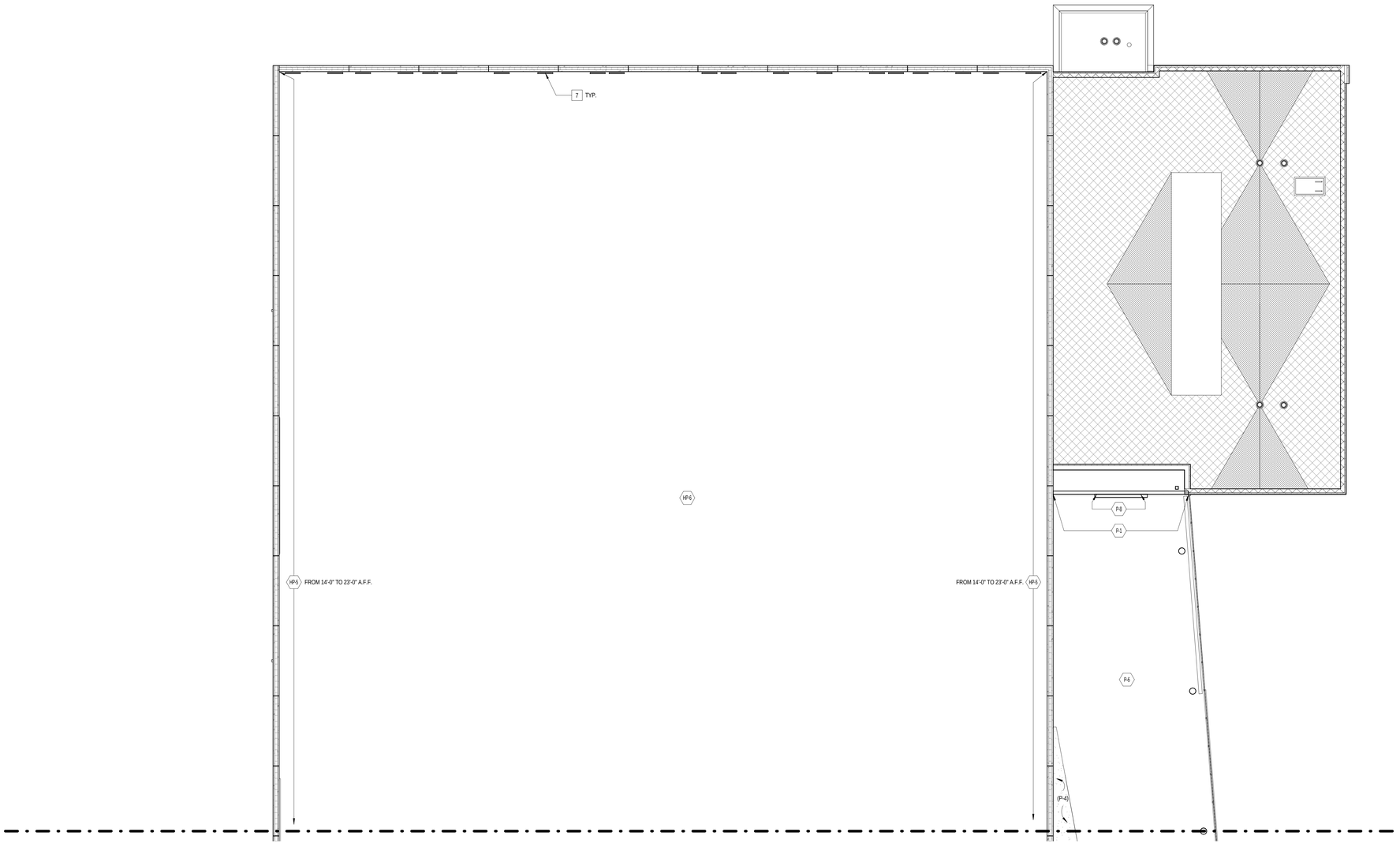

1 LEVEL 2 - AREA 3 FINISH PLAN
1/8" = 1'-0"

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
AWP-1	ACOUSTICAL WALL PANEL	TECTUM	1" FIELD PAINTED HP-4&10
AWP-2	ACOUSTICAL WALL PANEL	TECTUM	1" FACTORY PAINTED HP-5
FRP	FIBER REINFORCED PANEL	SEE SPEC	WHITE
EP-1	WHITE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-1
EP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
EP-7	BLACK HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-7
EP-8	MD. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-8
EP-9	LT. GREY HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-9
HP-4	PURPLE HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-4
HP-5	CHARCOAL HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-5
HP-6	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH P-6
HP-10	PRECAST HIGH PERFORMANCE PAINT		CUSTOM COLOR MATCH BENJAMIN MOORE 2068-20 GRAPE GUM
MIR	FULL HEIGHT MIRROR		
P-1	GENERAL WHITE PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004
P-2	CEILING WHITE PAINT		
P-3	YELLOW PAINT	BENJAMIN MOORE	FENNEL SEED 1101
P-4	PURPLE PAINT	BENJAMIN MOORE	SCANDAVIAN BLUE 2068-30
P-5	CHARCOAL PAINT	BENJAMIN MOORE	WITCHING HOUR 2120-30
P-6	PRECAST PAINT	BENJAMIN MOORE	SEA HAZE 2137-50
P-7	BLACK PAINT	BENJAMIN MOORE	BLACK INK 2127-20
P-8	MEDIUM GREY PAINT	BENJAMIN MOORE	STEEL WOOL 2121-20
P-9	LIGHT GREY PAINT	BENJAMIN MOORE	WINTER SOLSTICE 1605
WC-1	WRITABLE WALLCOVERING	EGAN	VERSA PRO
WC-2	CUSTOM WALLCOVERING	SEE SPEC	
WC-3	CUSTOM WALLCOVERING	SEE SPEC	
WC-4	CUSTOM WALLCOVERING	SEE SPEC	
WC-5	CUSTOM WALLCOVERING	SEE SPEC	
WD	WOOD VENEER	SEE SPEC	MAPLE VENEER
WT-1	BLUE GLASS MOSAIC TILE	CROSSVILLE	GLASSBLOX GI039 1X1, COLOR: AMETHYST
WT-2	LT. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: SANDBOX, SIZE: 18X18
WT-3	DK. TAN CERAMIC WALL TILE	CROSSVILLE	COLOR BLOX, COLOR: ROASTED MARSHMALLOW, SIZE: 18X18

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
CPT-1	CONCOURSE BLACK CPT	INTERFACE	SL920, COLOR: BLACK LINE
CPT-2	CONCOURSE MD GREY CPT	INTERFACE	SL910, COLOR: CHARCOAL
CPT-3	CONCOURSE LT GREY CPT	INTERFACE	CUBIC, COLOR: GEOMETRY,
CPT-4	BLACK CARPET TILE	INTERFACE	MONOCHROME, COLOR: BLACK
CPT-5	OFFICE CARPET TILE	INTERFACE	TECTONICS, COLOR: BINARY
CPT-6	PRESENTATION CARPET	INTERFACE	ON BOARD, COLOR: EBONY
CPT-7	COACHES LOCKER RM CPT	FORBO	FLOTEX NATURALS, COLOR: BLACKENED OAK 010037
CPT-8	PURPLE CARPET	INTERFACE	MONOCHROME, COLOR: CROCUS
DWT	DETECTABLE WARNING TILE	ROPPE	WARNING TILE, SAFETCORK Z100
EP-1	GREY EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CHARCOAL 53
EP-2	PURPLE EPOXY	SHERWIN WILLIAMS	3744 CR EPOXY, CUSTOM
RT-1	BLACK RUBBER TILE	ROPPE	Z100 BLACK, FINISH: HAMMERED
RST-1	BLACK RUBBER STAIR TREAD	ROPPE	Z100 BLACK, FINISH: HAMMERED
SC	SEALED CONCRETE		
SR-1	BLACK SPORT RUBBER	RB RUBBER	CUSTOM BLACK MIX
SR-2	YELLOW SPORT RUBBER	RB RUBBER	CUSTOM YELLOW MIX
SR-3	PURPLE SPORT RUBBER	RB RUBBER	CUSTOM PURPLE MIX
SR-4	12MM RUBBER SPORT FLOOR	MONDO	SPORTFLEX M, GREY
SR-5	8MM RUBBER SPORT FLOOR	MONDO	ADVANCE, SAND
SV-1	BLACK SAFETY VINYL SHEET	ALTRO	WALKWAY 20, COOL
SV-2	GREY SAFETY VINYL SHEET	ALTRO	WALKWAY 20, BLIZZARD
T-1	PORCELAIN TILE	CROSSVILLE	COLOR BLOX, COLOR: I SEE THE MOON, SIZE: 18X18
VCT-1	MD. GREY VINYL COMP TILE	ARMSTRONG	T3506 GLACIER GREY
VCT-2	BLACK VINYL COMPOSITE TILE	ARMSTRONG	T3500 BASALT BLACK
VCT-3	PURPLE VINYL COMP TILE	ARMSTRONG	T3525 VIOLET GRAPE
VCT-4	WHITE VINYL COMP TILE	ARMSTRONG	T3504 ICE WHITE
VCT-5	YELLOW VINYL COMP TILE	ARMSTRONG	R55807
WSF-1	WOOD SPORT FLOOR	CONNOR	GRADE 2 MAPLE
WSF-2	WOOD SPORT FLOOR	CONNOR	GRADE 3 MAPLE
WLKF-1	GREY WALKOFF CARPET	INTERFACE	FLOR, COLOR: GREY
WLKF-2	BLACK WALKOFF CARPET	INTERFACE	FLOR, COLOR: ANTHRACITE

FINISH PLAN SYMBOLS LEGEND:

1 WALL FINISH TYPE 1 WALL BASE TYPE 1 FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
3. ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.
4. HOLLOW METAL DOORS TO BE PAINTED P-5 UNLESS NOTED OTHERWISE. ALL H.M. FRAMES TO BE PAINTED P-4 U.N.O.
5. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOORPLANS FOR CASEWORK LOCATIONS.
6. PAINT ALL GYP. BD. CEILINGS P-1 UNLESS NOTED OTHERWISE.
7. ALL CARPET TILE TO BE INSTALLED BRICK PATTERN UNLESS SPECIFIED OTHERWISE.
8. PAINT ALL EXPOSED ROUND COLUMNS P-1 U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING PAINT AND FINISH DESIGNATIONS.
10. REFER TO A1.14 FOR ALT. BID 1, 2, 3 FINISH DESIGNATIONS

FINISH PLAN REFERENCED NOTES:

1. FROOM 11'-0 TO 14'-0" A.F.F.
2. PAINT FACE OF STAIR STRINGER P-5
3. PAINT ELEVATOR DOOR FRAME P-4
4. INSTALL RB-4 ON ALL GROUND FACE BLOCK WALLS
5. PAINT ALL METAL HANDRAILS, STRINGERS, AND METAL STAIR COMPONENTS P-5
6. PAINT VERTICAL HANDRAIL STANCHIONS P-9
7. REFER TO ELEVATIONS FOR LOCATIONS/EXTENTS OF AWP-2
8. REFER TO 3/A7.51 FOR EXTENTS OF P-1
9. PAINT H.M. DOORS AND FRAMES P-5
10. PAINT H.M. DOOR AND FRAME P-3
11. PAINT H.M. DOOR AND FRAME P-1
12. INSTALL WALLCOVERING HORIZONTALLY
13. PAINT DOOR AND FRAME P-4
14. SEE ELEVATION FOR WALL TILE PATTERNS
15. PROVIDE C-8 TOP CAP WHERE VINYL BASE MEETS WALL TILE - SEE 2/A11.21
16. PROVIDE TRANS-1 @ FLOORING TRANSITIONS
17. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-2 AS TRANSITION BETWEEN FLOORING TYPES.
18. PROVIDE TRANS-3 AT FLOORING TRANSITION
19. PROVIDE TRANS-4 AT FLOORING TRANSITION
20. PROVIDE TRANS-5 AT FLOORING TRANSITION
21. PROVIDE CEMENTITIOUS UNDERLAYMENT AS REQUIRED UNDER VCT FLOORING TO GRADUALLY RAMP UP AND BRING FACE OF VCT FLUSH W/ FACE OF CARPET - PROVIDE TRANS-5 AS TRANSITION BETWEEN FLOORING TYPES.
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23. PAINT GIRT ATTACHED TO COLUMN P-1 TO MATCH COLUMN
24. PAINT HANDRAIL P-9
25. PROVIDE METAL STRIP INSIDE/OUTSIDE CORNER ACCESSORIES AT ALL LOCATIONS WHERE FLOOR MEETS WALL, ALL INSIDE WALL TILE CORNERS AND ALL OUTSIDE TILE WALL CORNERS
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30. REFER TO ELEVATION/SECTION FOR FIELD PAINTED PAINT DESIGNATIONS ON AWP-1

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUF.	PRODUCT
EP-1	4"H INTEGRAL EPOXY	GENERAL POLYMERS	COLOR: CHARCOAL S3
RB-1	4"H STRAIGHT RUBBER BASE	JOHNSONITE	BLACK
RB-2	4"H COVE RUBBER BASE	ROPPE	SMOKE 174
RB-3	1/2" RUBBER QUARTER RND	JOHNSONITE	BLACK
RB-4	4"H COVE RUBBER BASE	JOHNSONITE	GRAPEST TB4
RB-5	4"H COVE RUBBER BASE	JOHNSONITE	BLACK
RB-6	6"H COVE RUBBER BASE	JOHNSONITE	BLACK
SVC-1	4"H SHEET VINYL COVE	ALTRO	WALKWAY 20, COOL
SVC-2	SHEET VINYL COVE	ALTRO	WALKWAY 20, BLIZZARD
VRB	4" VENTED RUBBER BASE	JOHNSONITE	BLACK
WD	3/4" X 4" SOLID WOOD		MAPLE

dka

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DKA PROJECT NO: 14-004

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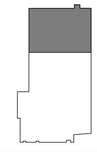

SHEET STATUS: 07/17/15
ISSUED FOR BID PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 FINISH PLAN AREA 3

SHEET NUMBER:
A11.23

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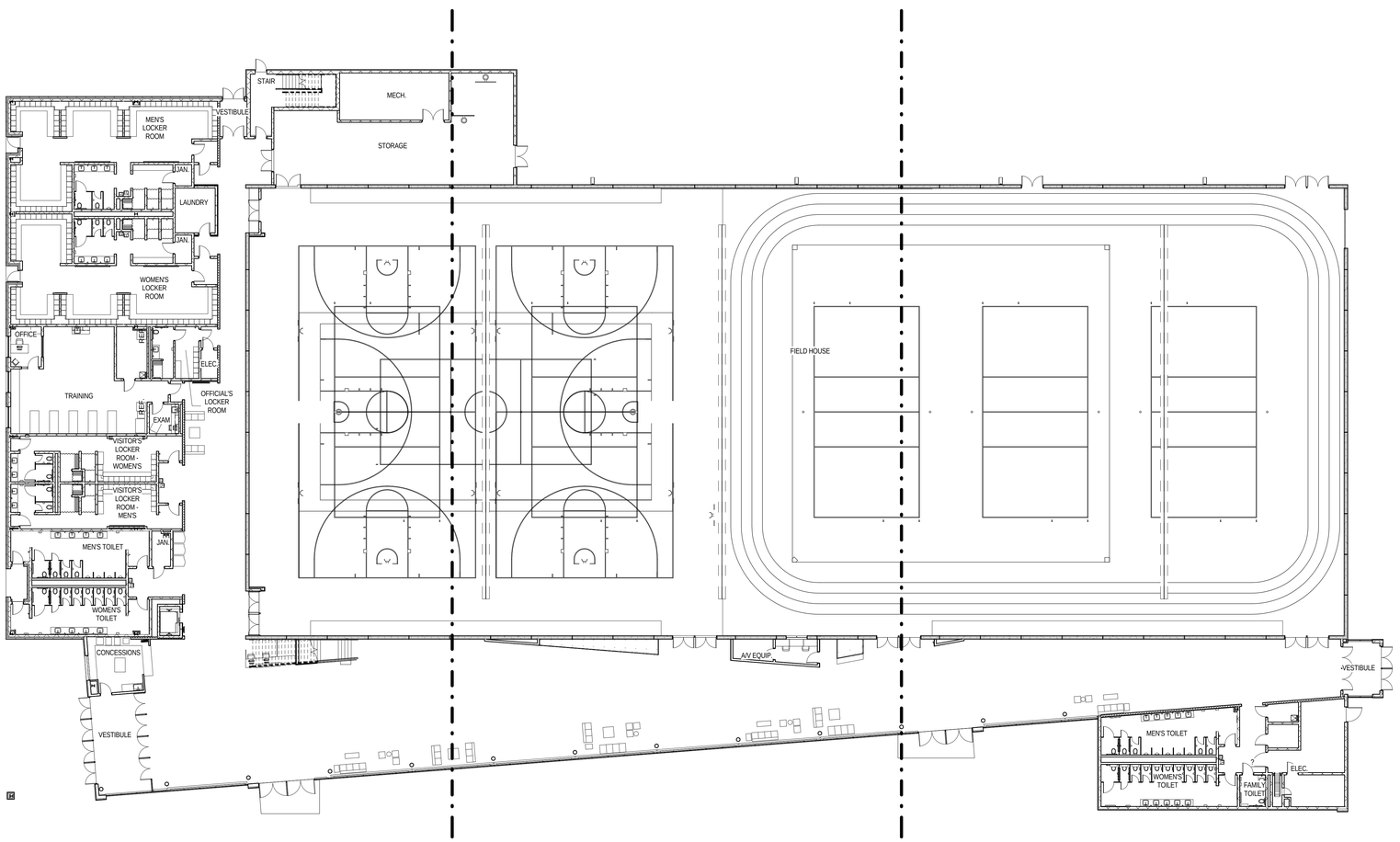

1 LEVEL 1 - OVERALL FFE PLAN
1/16" = 1'-0"

N

FURNITURE PLANS FOR REFERENCE ONLY

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1
OVERALL FURNITURE PLAN

SHEET NUMBER:
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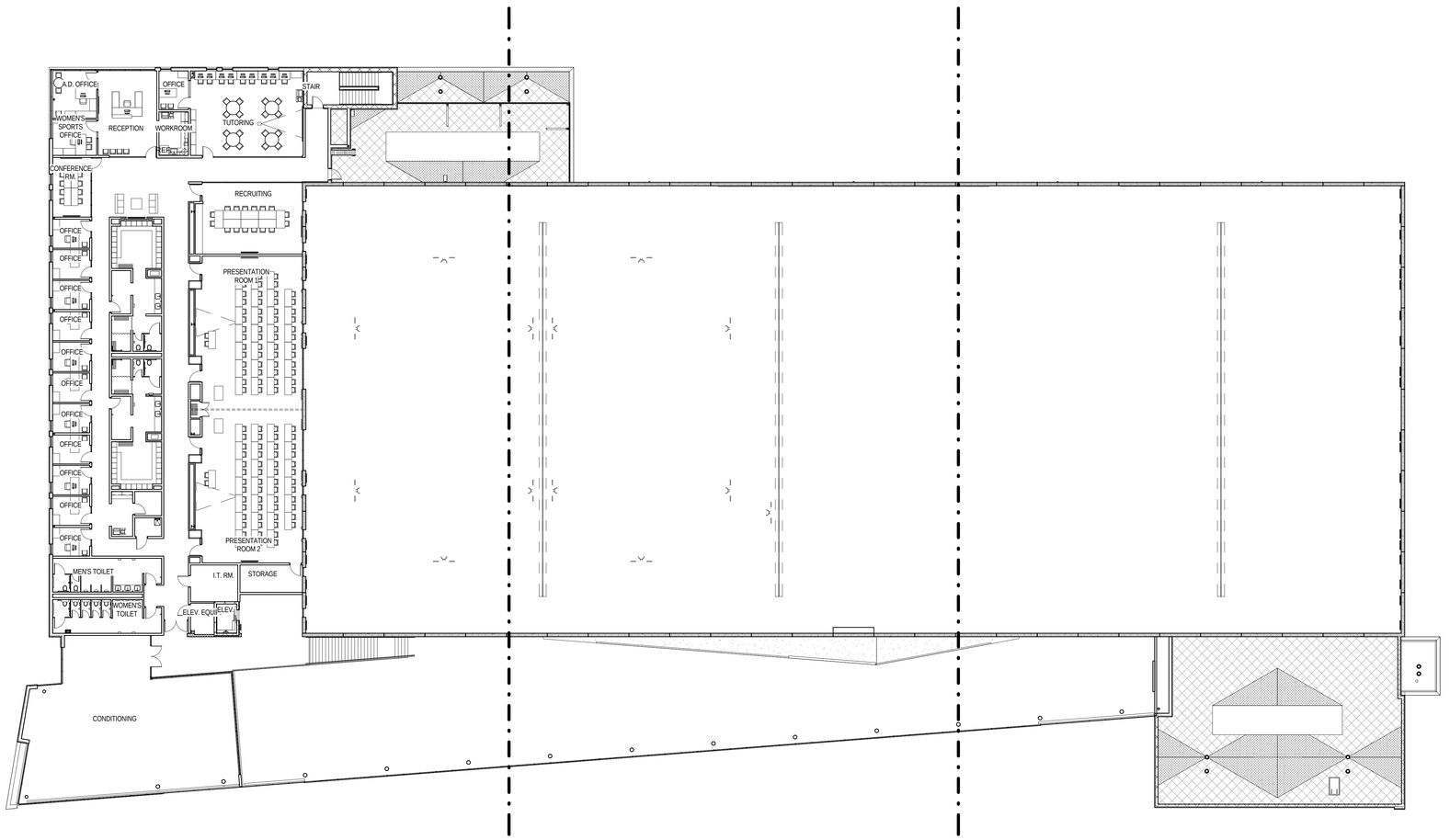

1 LEVEL 2 - OVERALL FFE PLAN
1/16" = 1'-0"

N

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 07/17/15
ISSUED FOR BID
PACKAGE 2

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2
OVERALL FURNITURE PLAN

SHEET NUMBER:
A12.20

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DESIGN CRITERIA

1. CODES:
   INTERNATIONAL BUILDING CODE (IBC) 2003
   ASCE 7-02
   AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-02)
   AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-02)
   AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   ALLOWABLE STRENGTH DESIGN (ASD)(AISC 360-05) THIRTEENTH EDITION, 2005
2. DESIGN LOADS:
   OCCUPANCY CATEGORY — III
   BACKFILL
   - EQUIVALENT FLUID PRESSURE — 70 PCF

   SEISMIC (IBC)
   - SOIL CLASSIFICATION — B
   - SPECTRAL RESPONSE ACCELERATION, Ss — 0.192 g
   - SPECTRAL RESPONSE ACCELERATION, S1 — 0.067 g
   - SHORT PERIOD DESIGN ACCELERATION, Sds — 0.128 g
   - LONG PERIOD DESIGN ACCELERATION, Sd1 — 0.045 g
   - IMPORTANCE FACTOR — 1.25
   - SEISMIC DESIGN CATEGORY — A
   - ANALYSIS PROCEDURE — SIMPLIFIED ANALYSIS
   - SEISMIC RESPONSE COEFFICIENT, Cs — 0.01
   - DESIGN BASE SHEAR, V = Cs x W

   WIND - PARAMETERS
   - BASIC WIND SPEED — 90 MPH
   - IMPORTANCE FACTOR — 1.15
   - EXPOSURE CLASS — C

   WIND - MAIN WIND FORCE RESISTING SYSTEM PRESSURES
   - DESIGN PRESSURE — 23 PSF
   - ROOF UPLIFT PRESSURE — 27 PSF (GROSS) [LC: 1.0WL]
   - ROOF UPLIFT PRESSURE — 5 PSF (NET) [LC: 0.6DL + 1.0 WL]

   WIND - ELEMENTS AND COMPONENTS
   - PER APPLICABLE BUILDING CODE

   LIVE LOADS
   - TYPICAL — 80 PSF REDUCIBLE
   - PRESENTATION AREA — 100 PSF REDUCIBLE
   - MECHANICAL — 125 PSF UNREDUCIBLE
   - STAIRS — 100 PSF UNREDUCIBLE

   SNOW LOADS
   - GROUND SNOW LOAD — 25 PSF
   - SNOW EXPOSURE FACTOR — 1.0
   - THERMAL FACTOR — 1.0
   - IMPORTANCE FACTOR — 1.1
   - FLAT-ROOF SNOW LOAD — 25 PSF
   - DESIGN LOAD — 25 PSF
   - RAIN-ON-SNOW SURCHARGE — 0 PSF
   - DRIFTING LOAD — REFER TO S5.02
3. NET ALLOWABLE SOIL BEARING PRESSURES
   SPREAD FOOTINGS — 4000 PSF
   CONTINUOUS FOOTINGS — 4000 PSF
4. MINIMUM FROST PROTECTION DEPTH FROM ADJACENT GRADE:
   EXTERIOR FOOTING ADJACENT TO HEATED AREA — -3'-6"
   EXTERIOR FOOTINGS IN UNHEATED AREA — -4'-0"
5. SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTHS (f'c)
   FOOTINGS — 3000 PSI
   FOUNDATION WALLS — 4000 PSI
   GRADE BEAMS — 4000 PSI
   SLABS ON GRADE — 4000 PSI
   TYPICAL - UNLESS NOTED OTHERWISE — 4000 PSI
6. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
   DEFORMED BARS — ASTM A615, GRADE 60 — Fy = 60 KSI
   WELDED WIRE REINFORCING — ASTM A185 — Fy = 65 KSI
7. MATERIALS FOR CONCRETE UNIT MASONRY SHALL CONFORM TO THE FOLLOWING STANDARDS:
   CONCRETE MASONRY UNITS — ASTM C90
   MORTAR MATERIALS — ASTM C270, TYPE S
   GROUT FOR MASONRY — ASTM C476
   REINFORCING STEEL FOR MASONRY — ASTM A615, GRADE 60 (UNO)
   PLATE AND BENT BAR ANCHORS — ASTM A36
   SHEET METAL ANCHORS AND TIES — ASTM A1008
   WIRE MESH TIES — ASTM A185
   WIRE TIES AND ANCHORS — ASTM A951
   ANCHOR BOLTS FOR MASONRY — ASTM A307, GRADE A
8. MINIMUM 28 DAY COMPRESSIVE STRENGTHS FOR MASONRY (f'm):
   DESIGN ASSEMBLY STRENGTH, f'm — 2700 PSI
   INDIVIDUAL CONCRETE MASONRY UNITS — 2000 PSI
   MORTAR FOR MASONRY (TYPE S REQUIRED) — 1800 PSI
   GROUT FOR MASONRY — 2000 PSI
9. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SECTIONS	ASTM A992	Fy = 50 KSI
OTHER ROLLED SECTIONS	ASTM A36	Fy = 36 KSI
ROUND HSS	ASTM A500, GR B	Fy = 46 KSI
SQUARE, RECTANGULAR, ROUND HSS	ASTM A500, GR B	Fy = 42 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy = 35 KSI
CAP AND BASE PLATES	ASTM A36	Fy = 36 KSI
CONNECTION MATERIAL	ASTM A36	Fy = 36 KSI
STIFFENER PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS (AISC 360-05 ASD)	A325 (3/4" DIAMETER UNO)	Fv = 24 KSI
TWIST-OFF BOLT/NUT/WASHER ASSEMBLIES	ASTM F1852	
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED WELDED STEEL STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

10. STEEL DECK AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS:
    GALVANIZED COMPOSITE FLOOR DECK — ASTM A653, GR 50 — Fy = 50 KSI
    EPIC TORIS 4-18 DECK — FY = 40 KSI

GENERAL NOTES

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
2. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO THAT IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.
4. DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPES, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
6. DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
7. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING CONDITIONS, FIELD VERIFY EXISTING DIMENSIONS, MEMBER SIZES AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
8. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS NOTED OTHERWISE.
   B. SIZE AND LOCATIONS OF ALL INTERIOR AND EXTERIOR MASONRY WALLS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS UNLESS NOTED OTHERWISE.
   E. FLOOR, WALL AND ROOF FINISHES.
   F. STAIR FRAMING AND DETAILS. ALSO REFER TO STAIR MANUFACTURER'S APPROVED SHOP DRAWINGS
   G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
   H. FIRE PROTECTION REQUIREMENTS.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES OR CURBS AND ANCHOR BOLTS FOR MOTOR MOUNTS.
11. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, AND OTHERS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR.
12. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, AND OTHERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. REVIEW BY THE ARCHITECT SHALL NOT BEGIN WITHOUT THE PRIOR COORDINATION AND REVIEW BY THE GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT. NOTATIONS MADE BY THE ARCHITECT ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
13. OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES RESULTING FROM CHOOSING AN OPTION AND SHALL COORDINATE ALL DETAILS. THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE CONTRACTOR.
14. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
15. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS.
16. ELEVATIONS ARE BASED ON THE FIRST FLOOR ELEVATION OF (+ 0' - 0") WHICH IS EQUAL TO CIVIL ELEVATION OF (567.50').

FOUNDATIONS/SLAB-ON-GRADE

1. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION WALLS AND PIERS.
2. FOUNDATION DESIGN BASED ON GEOTECHNICAL ENGINEERING REPORT DATED JANUARY 29, 2015 BY ECS MIDWEST LLC. REPORT IS ON FILE WITH THE ARCHITECT.
3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOOR IS COMPLETELY IN PLACE AND HAS ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SHORING AND/OR SHEETING. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB ABOVE IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS.
4. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
5. PROVIDE SAW CUT CONTROL JOINTS IN ALL SLABS-ON-GRADE. LOCATE JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED AT A MAXIMUM OF 36 TIMES THE SLAB THICKNESS, UNLESS NOTED OTHERWISE. CONTROL JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 TO 1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS FORMED IN SLAB ON GRADE.

REINFORCING STEEL

1. FOR CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3 INCHES
   CONCRETE EXPOSED TO EARTH OR WEATHER
   NO. 6 BARS OR LARGER — 2 INCHES
   NO. 5 BARS OR SMALLER — 1 1/2 INCHES
   SLABS, WALLS, JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH
   NO. 14 AND NO. 18 BARS — 1 1/2 INCHES
   NO. 11 BARS OR SMALLER — 3/4 INCHES
   BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH — 1 1/2 INCHES
2. DIMENSIONS OF CONCRETE COVER FOR REINFORCEMENT INDICATED ON DRAWINGS ARE TO OUTERMOST REINFORCING BARS. FOR BEAMS OR COLUMNS WITH STIRRUPS OR TIES, CLEAR COVER INDICATED IS TO STIRRUPS OR TIES.
3. BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS:

	3000 PSI CONCRETE		4000 PSI CONCRETE	
BAR SIZE	OTHER	TOP	OTHER	TOP
#3	22	28	19	25
#4	29	38	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81
#9	81	105	70	91
#10	91	118	79	102
#11	101	131	87	114

   LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.
4. EPOXY FOR EPOXY DOWELING SHALL BE HILTI RE 500 SD, POWERS PE 1000+, OR SIMPSON SET XP. EMBEDMENT LENGTH SHALL BE AS INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PRESTRESSED /PRECAST CONCRETE

1. FOUNDATION DESIGN IS BASED ON PRECAST CONCRETE SHEAR WALL PANELS TIED TOGETHER FOR UNIFORM LATERAL SHEAR DISTRIBUTION TO THE FOUNDATIONS. BASED ON ACTUAL WALL PANEL SYSTEM SUPPLIED, MODIFICATIONS TO THE FOUNDATION PLAN MAY BE REQUIRED.
2. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY PRECAST CONCRETE SHEAR WALLS. THESE PROVIDE ALL LATERAL LOAD RESISTANCE IN EACH ORTHOGONAL BUILDING DIRECTION. THE COMPOSITE STEEL DECK AND ROOF DECK SERVE AS HORIZONTAL DIAPHRAGMS THAT DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL LATERAL SHEAR WALLS. THE CONCRETE SHEAR WALLS CARRY THE APPLIED LATERAL LOADS TO THE BUILDING FOUNDATION.

MASONRY (CONCRETE MASONRY UNITS)

1. MORTAR SHALL CONFORM TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) DESIGNATION CITED UNDER DESIGN CRITERIA, AND PROJECT SPECIFICATIONS. REFER TO DESIGN CRITERIA FOR MINIMUM COMPRESSIVE STRENGTH OF MORTAR.
2. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE. ALL BLOCK SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.
3. THE LOAD BEARING CONCRETE MASONRY WALLS FOR THIS PROJECT WERE DESIGNED TO SPAN VERTICALLY AND BE BRACED BY THE ROOF AND FLOOR FRAMING ELEMENTS OF THE STRUCTURE. DURING CONSTRUCTION THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING UNTIL THE ROOF STRUCTURE IS INSTALLED AS RECOMMENDED BY ACI 530 AND THE LATEST REVISION OF "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION", PREPARED BY THE COUNCIL FOR MASONRY WALL BRACING. THIS BRACING IS TO PREVENT UNNECESSARY STRESS OR DAMAGE TO THE MASONRY WALLS FROM WIND LOADS, WHICH CAN OCCUR WHILE THE WALLS ARE NOT PROPERLY BRACED BY THE ROOF AND FLOOR STRUCTURE.
5. BAR SPLICES (IBC 2003): SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS. BARS LARGER THAN #9 ARE TO BE MECHANICALLY SPLICED.

MINIMUM LAP SPLICE LENGTH		
BAR SIZE	8" CMU	12" CMU
#3	19	19
#4	25	25
#5	31	31
#6	57	53
#7	79	61
#8	113	75
#9	NP	91

STRUCTURAL STEEL

1. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL MECHANICAL, ELECTRICAL DRAWINGS, ETC., FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
2. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS.
3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." SEE DESIGN CRITERIA FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.

POST INSTALLED STEEL ANCHORS

1. POST INSTALLED EXPANSION ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATE ANCHORS MAY BE SUPPLIED PROVIDED THAT THE QUANTITY AND CONFIGURATION MATCHES THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ACCEPTABLE ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. THE FOLLOWING TABLE SUMMARIZES THE EXPANSION ANCHORS USED ON THE PROJECT:

ANCHORED INTO:	BASIS OF DESIGN	ACCEPTABLE ALTERNATES AT CONTRACTOR'S OPTION
HOLLOW CMU	HILTI HLC SLEEVE	POWERS LOK/BOLT, ITW/RED HEAD DYNABOLT SLEEVE
GROUTED CMU	HILTI KWIK BOLT 3	POWER STUD+ SD1, SIMPSON WEDGE-ALL
UNCRACKED CONCRETE	HILTI KWIK BOLT 3	POWER STUD+ SD2, ITW/RED HEAD TRUBOLT+, SIMPSON STRONG BOLT

2. ADHESIVE ANCHOR SYSTEMS FOR ATTACHMENT INTO CONCRETE SHALL CONSIST OF ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS, AND A TWO COMPONENT STRUCTURAL ADHESIVE. ADHESIVE ANCHORING SYSTEMS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATE ANCHORS MAY BE SUPPLIED PROVIDED THAT THE QUANTITY AND CONFIGURATION MATCHES THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ACCEPTABLE ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ANCHORING SYSTEMS INTO HOLLOW CMU SHALL INCLUDE A SCREEN TUBE. THE FOLLOWING TABLE SUMMARIZES THE ADHESIVE ANCHORS USED ON THE PROJECT:

ANCHORED INTO:	BASIS OF DESIGN	ACCEPTABLE ALTERNATES AT CONTRACTOR'S OPTION
HOLLOW CMU	HILTI HIT HY 70	POWERS AC 100+ GOLD, ITW A7 ACRYLIC
GROUTED CMU	HILTI HIT HY 70	POWERS AC 100+ GOLD, ITW A7 ACRYLIC, SIMPSON SET
CONCRETE	HILTI HIT HY 200	POWERS PE 1000+, SIMPSON SET XP

STEEL DECK

1. DECK SIZE AND GAGE INDICATED IN THE DRAWINGS ARE BASED ON THE FOLLOWING:
   A. VULCRAFT 2008 CATALOG FOR GRAVITY DESIGN LOADS.
   B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.
   C. VULCRAFT 2008 CATALOG FOR UNSHORED CONSTRUCTION SPANS.
2. STEEL ROOF DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
3. COMPOSITE STEEL FLOOR DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
4. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON STEEL DECK). THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG.
5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAGE.

LINTELS

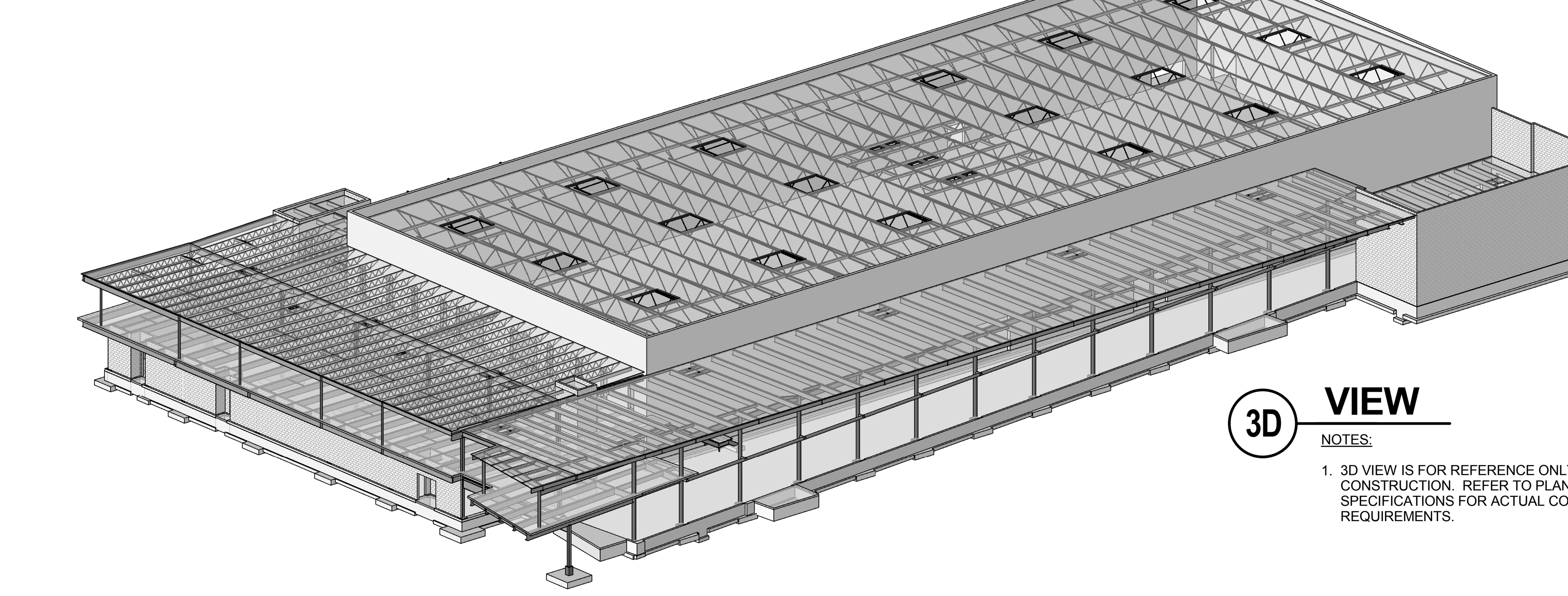
1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
2. THE STRUCTURAL DOCUMENTS REFLECT THE BEST ATTEMPT TO IDENTIFY ALL WALL PENETRATIONS IN THE NEW CONSTRUCTION. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS IN NON-BEARING MASONRY WALL OPENINGS CAN BE SIZED IN ACCORDANCE WITH THE NOTE BELOW. LINTELS THAT OCCUR IN BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION AND LINTEL SCHEDULE. BOTTOM PLATE SIZE SHALL BE A MINIMUM OF 3/8" THICK. THE WIDTH OF THE PLATE SHALL BE 3/4" LESS THAN THE FIELD VERIFIED WALL THICKNESS. THE PLATE SHALL BE THE FULL LENGTH OF THE LINTEL MEMBER. LINTELS ARE NOT REQUIRED OVER OPENINGS THAT ARE 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF THE WALL.
3. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING.
4. ALL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNO.
5. FOR ALL OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, MINIMUM LINTELS SHALL BE FOR EACH 4 INCH OF MASONRY WIDTH:
   0 TO 2'-0" SPAN — 5/16" PLATE (3/4" LESS THAN WALL WIDTH)
   2'-0" TO 4'-0" SPAN — L 3 1/2x3 1/2x1/4
   4'-0" TO 6'-0" SPAN — L4x3 1/2x5/16 (LLV)
   6'-0" TO 8'-0" SPAN — L5x3 1/2x5/16 (LLV)
   ALL ANGLES THAT ARE BACK TO BACK SHALL BE WELDED TOP AND BOTTOM 3" AT 12" MINIMUM.
6. BEARING PLATES NOT REQUIRED FOR LINTELS UNLESS NOTED OTHERWISE.

STEEL JOISTS

1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI APPROVED FOR THE TYPE OF JOIST BEING USED. IN LIEU OF THE ABOVE REQUIREMENTS, THE FABRICATOR MAY PROVIDE A CURRENT INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) RESEARCH RECOMMENDATION APPROVING THE TYPE OF JOIST BEING USED.
2. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED WITHIN DESIGN CRITERIA. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADES INSTALLATIONS, THE FABRICATOR SHALL REMOVE THE BRIDGING AFTER THE METAL DECK IS IN PLACE AND REPLACE AS DIRECTED BY THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
3. ERECTOR SHALL FOLLOW MANUFACTURER'S AND STEEL JOIST INSTITUTES GUIDELINES FOR ERECTIONS STABILITY AND HANDLING.
4. ATTACH STEEL JOIST TO SUPPORT PER THE FOLLOWING SCHEDULE. WHERE WELDS ARE INDICATED ON THE DETAILS, WELD TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT.

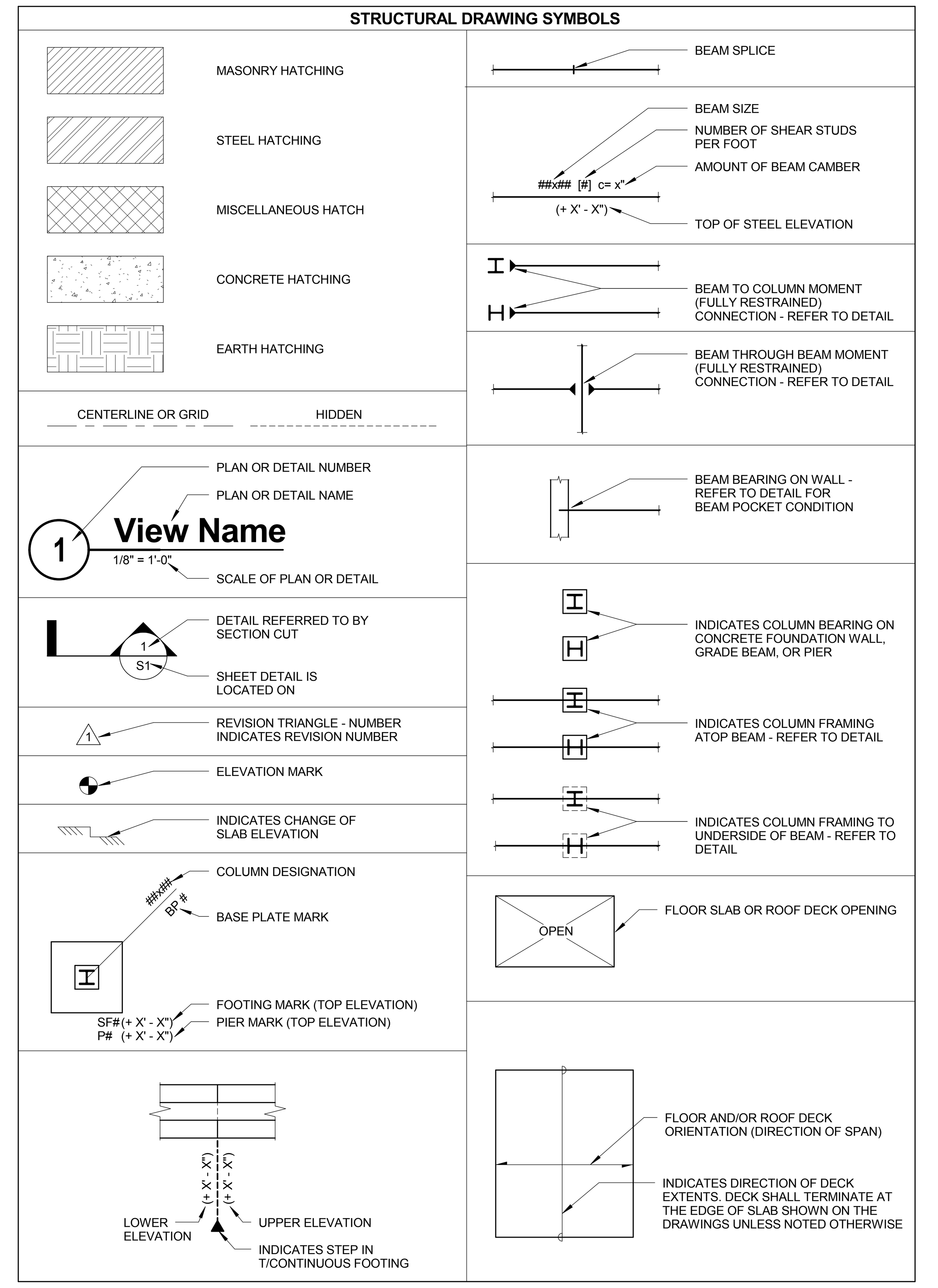
	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING	
JOIST SERIES	WELD SIZE	WELD LENGTH	BOLT DIAMETER	BOLT MATERIAL	STEEL	MASONRY
K	1/8"	2"	1/2"	A307	2 1/2"	4"
LH 18-25	1/4"	4"	3/4"	A325	6"	6"

5. DESIGN JOIST SEAT FOR 1650 LB ROLLOVER LOAD, UNLESS NOTED OTHERWISE.
6. PROVIDE 2 1/2" JOIST SEATS ON K JOISTS.
7. PROVIDE 5" JOIST SEATS ON LH JOISTS.



NOTES:
1. 3D VIEW IS FOR REFERENCE ONLY - NOT FOR CONSTRUCTION. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ACTUAL CONSTRUCTION REQUIREMENTS.

STRUCTURAL DRAWING SYMBOLS



MASONRY WALL SCHEDULE		
MARK	THICKNESS	VERTICAL REINFORCING
MW1	0' - 8"	#5 @ 48" CENTERED
MW2	0' - 8"	#4 @ 8 EACH FACE
MW3	1' - 0"	#5 @ 48" CENTERED

LINTEL SCHEDULE			
MARK	DEPTH	REINFORCING	MEMBER BEARING, EACH END
L1	8"	(2) #4	8"
L2	16"	(2) #4	8"
L3	24"	(2) #4	8"

NOTE:
1. REFER TO 6/S4.00 FOR TYP MASONRY LINTEL DETAIL.
2. PROVIDE REINFORCING AT OPENINGS PER 15/S4.00.

STRUCTURAL ABBREVIATIONS LIST

#	NUMBER	KSF	KIPS PER SQUARE FOOT
@	AT	L	LENGTH
°	DEGREES	LB	POUND
⌀	DIAMETER	LF	LINEAR FOOT
AHU	AIR-HANDLING UNIT	LL	LIVE LOAD
APPROX	APPROXIMATE, -LY	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT, -URE, -URAL	LLV	LONG LEG VERTICAL
B/	BOTTOM OF	LSH	LONG SIDE HORIZONTAL
bf	BEAM FLANGE WIDTH	LSV	LONG SIDE VERTICAL
BM	BEAM	LONG	LONGITUDINAL
BP	BASE PLATE	M/E	MECHANICAL/ELECTRICAL
BRG	BEARING	MAX	MAXIMUM
CFSF	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CJ	CONTROL JOINT	MEZZ	MEZZANINE
CL	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
CONC	CONCRETE	MK	MARK
CONST	CONSTRUCTION	N	NORTH
CONT	CONTINUOUS	N	LENGTH (AS PLATES)
D	DEPTH	NIC	NOT IN CONTRACT
DBL	DOUBLE	NO	NUMBER
DEG	DEGREE	NTS	NOT TO SCALE
DIM	DIMENSION	OC	ON CENTER
DL	DEAD LOAD	OPNG	OPENING
DTL	DETAIL	OPP	OPPOSITE
DWG	DRAWING	PAF	POWER ACTUATED FASTENER
EA	EACH	PC	PRECAST
EF	EACH FACE	PCF	POUNDS PER CUBIC FOOT
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDDED	PVC	POLYVINYL CHLORIDE
EOD	EDGE OF DECK	R	RADIUS
EOS	EDGE OF SLAB	RD	ROOF DRAIN
EQ	EQUAL	REINF	REINFORCING, -MENT, -ED
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EW	EACH WAY	REF	REFERENCE, REFER TO
EXIST, (E)	EXISTING	RTU	ROOF-TOP UNIT
EXP	EXPANSION	SC	TC WITH CLASS A FAYING SURFACE
EXT	EXTERIOR	SCHED	SCHEDULE
f'c	CONCRETE COMPRESSIVE STRENGTH	SIM	SIMILAR
FDN	FOUNDATION	SL	SNOW LOAD
FIN	FINISHED	SP	SPACE(S)
FL	FLOOR	SPEC	SPECIFICATION(S)
FT	FOOT	SPEC'D	SPECIFIED
FTG	FOOTING	SQ	SQUARE
Fy	YIELD STRESS	STD	STANDARD
GA	GAGE OR GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	T/	TOP OF
GB	GRADE BEAM	TC	PRE-TENSIONED BOLT
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GYP	GYPSUM	tf	BEAM FLANGE THICKNESS
HDG	HOT-DIPPED GALVANIZED	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HWS	HEADED, WELDED STUD	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JST	JOIST	WP	WORKING POINT
JT	JOINT	WT	WEIGHT
K, KIP	KILOPOUND (1,000 POUNDS)	WWR	WELDED WIRE REINFORCING
KO	KNOCK-OUT	YD	YARD

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REFERENCE SCALE IN INCHES
0 1 2 3

dkA

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DKA PROJECT NO: 14-004

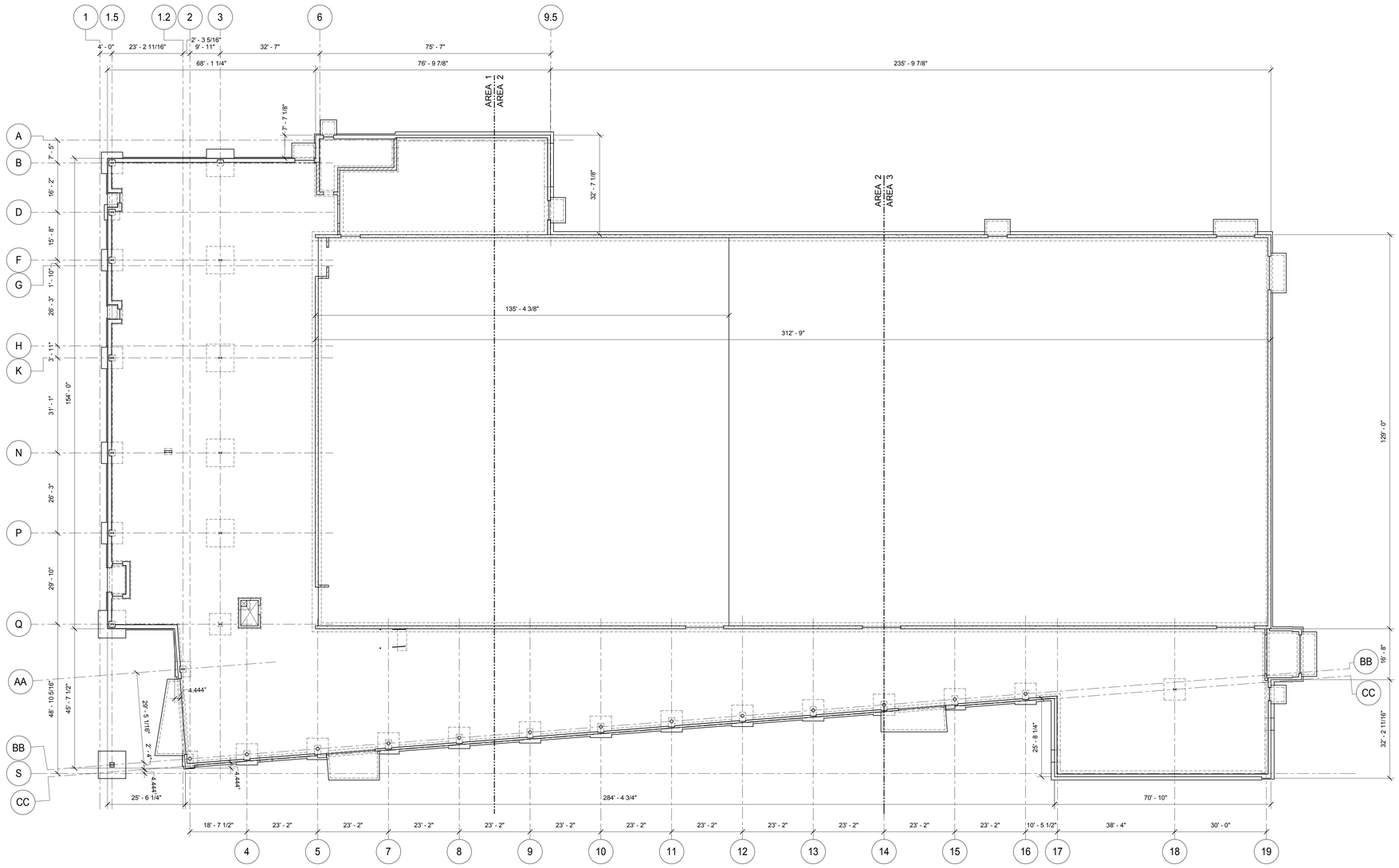
KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
S0.00



FOUNDATION PLAN - OVERALL DIMENSIONAL PLAN

1 — NORTH

1/16" = 1'-0"

NOTES:

1. REFER TO S1.11 TO S1.13 FOR FOUNDATION INFORMATION. THIS PLAN IS FOR OVERALL DIMENSIONS ONLY.

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

FOUNDATION PLAN - OVERALL DIMENSIONAL PLAN

SHEET NUMBER:

S1.10

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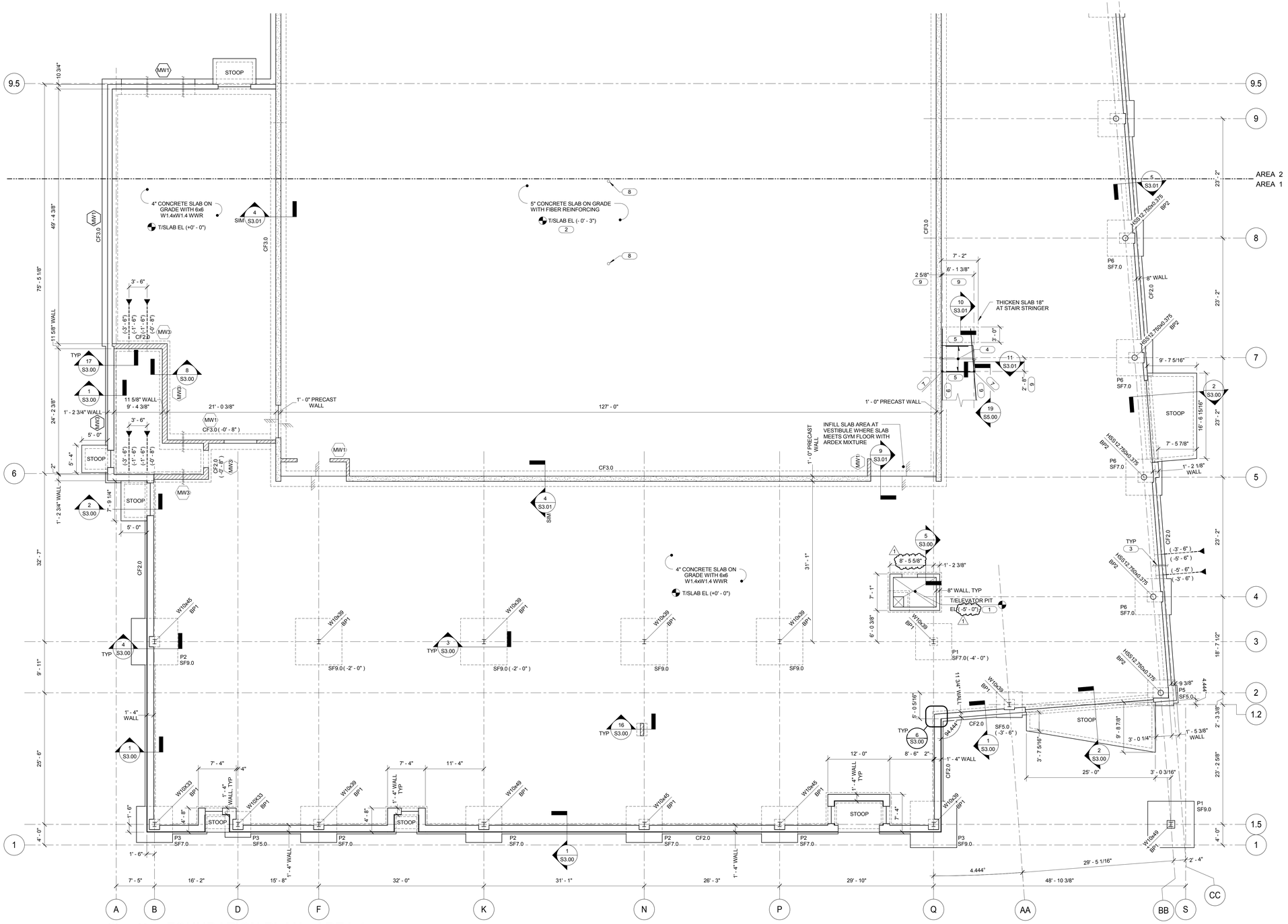

FOUNDATION PLAN - AREA 1

1/8" = 1'-0"

NOTES:

1. TOP OF EXTERIOR FOOTING ELEVATION (-3' - 6") UNO.
   TOP OF INTERIOR FOOTING ELEVATION (-1' - 0") UNO
2. TOP OF FOUNDATION WALL ELEVATION (+0' - 0") UNO.
   TOP OF FOUNDATION WALL ELEVATION AT PRECAST WALL PANEL (-1'-0")
3. TOP OF PIER ELEVATION (-0' - 8") UNO.
4. BP# INDICATES BASE PLATE. REFER TO S5.00 FOR ANCHOR ROD AND BASE PLATE DETAILS.
5. P# INDICATES CONCRETE PIER. REFER TO S3.01 FOR DETAILS.
6. SF# AND CF# INDICATE SPREAD AND CONTINUOUS FOOTINGS. REFER TO S1.11 FOR SCHEDULES.
7. REFER TO 13, 14 AND 15/S3.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
8. PROVIDE CORNER BARS FOR FOOTINGS AND WALLS PER 6/S3.00 AND 10/S3.00 - OR - PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
9. PROVIDE THICKENED SLAB AT ALL NON-STRUCTURAL MASONRY WALLS PER 16/S3.00, COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. SLEEVE UTILITIES THROUGH FOUNDATION PER 7/S3.00. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
11. ▶ – – INDICATES FOOTING STEP-REFER TO 17/S3.00.
12. AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' - 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.
13. AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS:

    OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR.

    OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.

    OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
14. REFER TO S0.00 FOR TYPICAL MASONRY WALL INFO AND REINFORCING.
15. REFER TO S1.10 FOR OVERALL FOUNDATION DIMENSIONAL PLAN.
16. BUILDING SITE CONSISTS OF UNDOCUMENTED EXISTING FILL MATERIAL. CONTRACTOR IS TO REMOVE THE FILL AND REPLACE WITH ENGINEERED FILL BELOW THE SLAB ON GRADE AND THE FOOTINGS. EXISTING FILL MATERIAL VARIES ON SITE. AT A MINIMUM, IF SITE IS NOT STRIPPED OF UNDOCUMENTED FILL MATERIAL BELOW THE SLAB ON GRADE, THE FOOTINGS ARE TO STILL BEAR ON COMPETENT NATURAL SOILS OR NEW ENGINEERED FILL OVERLYING COMPETENT NATURAL SOILS.

KEYNOTES:

1. COORDINATE PIT DEPTH WITH ELEVATOR MANUFACTURER.
2. CONFIRM DEPRESSION IN SLAB WITH ARCH AND GC WITH SELECTED FLOOR SUPPLIER.
3. SLEEVE UTILITIES THROUGH FOUNDATION - REFER TO NOTE 10.
4. 2" CONCRETE ON STAIR PAN. REFER TO ARCHITECTURAL.
5. C8x11.5 AT LANDING.
6. C15x33.9 STAIR STRINGER.
7. HSS3x3x1/4 POST.
8. FLOOR SLEEVE. COORDINATE WITH EQUIPMENT MANUFACTURER.
9. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND EXTENT OF STAIR LOCATION.

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	
				LONG DIRECTION	SHORT DIRECTION
SF5.0	5' - 0"	5' - 0"	1' - 2"	(6) #5	(6) #5
SF7.0	7' - 0"	7' - 0"	1' - 6"	(8) #6	(8) #6
SF9.0	9' - 0"	9' - 0"	1' - 10"	(10) #7	(10) #7

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF2.0	2' - 0"	1' - 0"	(3) #4	#4 @ 16" OC
CF3.0	3' - 0"	1' - 0"	(4) #4	#4 @ 16" OC

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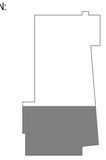
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION PLAN - AREA 1

SHEET NUMBER:
S1.11

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REFERENCE SCALE IN INCHES
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FOUNDATION PLAN - AREA 2

1/8" = 1'-0"

NOTES:

1. TOP OF EXTERIOR FOOTING ELEVATION (-3' - 6") UNO.
   TOP OF INTERIOR FOOTING ELEVATION (-1' - 0") UNO
2. TOP OF FOUNDATION WALL ELEVATION (+0' - 0") UNO.
   TOP OF FOUNDATION WALL ELEVATION AT PRECAST WALL PANEL (-1' - 0")
3. TOP OF PIER ELEVATION (-0' - 8") UNO.
4. BP# INDICATES BASE PLATE. REFER TO S5.00 FOR ANCHOR ROD AND BASE PLATE DETAILS.
5. P# INDICATES CONCRETE PIER. REFER TO S3.01 FOR DETAILS.
6. SF# AND CF# INDICATE SPREAD AND CONTINUOUS FOOTINGS. REFER TO S1.11 FOR SCHEDULES.
7. REFER TO 13, 14 AND 15/S3.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
8. PROVIDE CORNER BARS FOR FOOTINGS AND WALLS PER 6/S3.00 AND 10/S3.00 - OR - PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
9. PROVIDE THICKENED SLAB AT ALL NON-STRUCTURAL MASONRY WALLS PER 16/S3.00, COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. SLEEVE UTILITIES THROUGH FOUNDATION PER 7/S3.00. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
11. SEE S0.00 FOR TYPICAL MASONRY WALL INFO AND REINFORCING.
12. REFER TO S1.10 FOR OVERALL FOUNDATION DIMENSIONAL PLAN.
13. BUILDING SITE CONSISTS OF UNDOCUMENTED EXISTING FILL MATERIAL. CONTRACTOR IS TO REMOVE THE FILL AND REPLACE WITH ENGINEERED FILL BELOW THE SLAB ON GRADE AND THE FOOTINGS. EXISTING FILL MATERIAL VARIES ON SITE. AT A MINIMUM, IF SITE IS NOT STRIPPED OF UNDOCUMENTED FILL MATERIAL BELOW THE SLAB ON GRADE, THE FOOTINGS ARE TO STILL BEAR ON COMPETENT NATURAL SOILS OR NEW ENGINEERED FILL OVERLYING COMPETENT NATURAL SOILS.

KEYNOTES:

1. SLEEVE UTILITIES THROUGH FOUNDATION - REFER TO NOTE 10.
2. CONFIRM DEPRESSION IN SLAB WITH ARCH AND GC WITH SELECTED FLOOR SUPPLIER.
3. FLOOR SLEEVE. COORDINATE WITH EQUIPMENT MANUFACTURER.

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MULTIPURPOSE FACILITY

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

FOUNDATION PLAN - AREA 2

SHEET NUMBER:

S1.12

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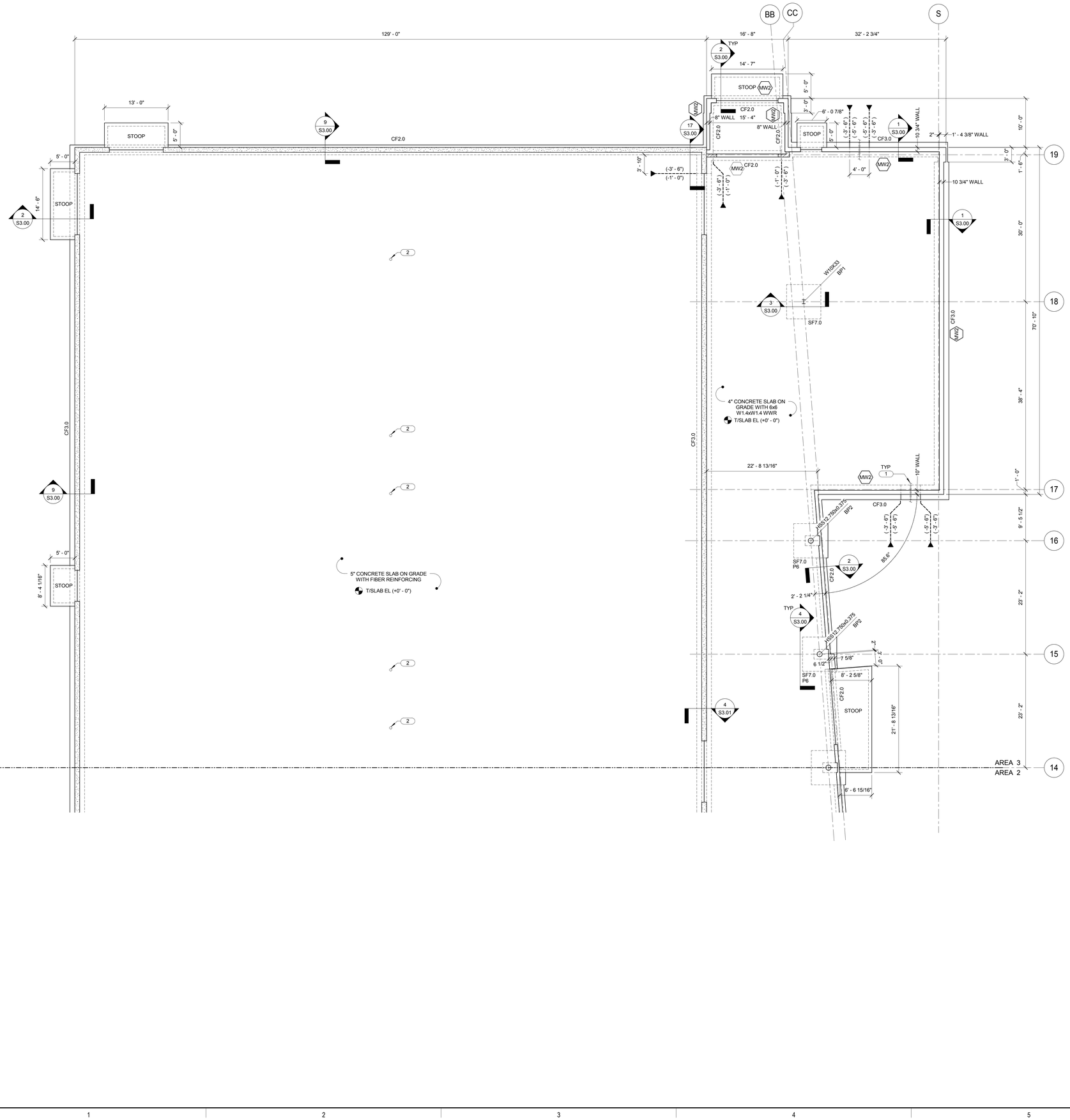

1 FOUNDATION PLAN - AREA 3

1/8" = 1'-0"

NOTES:

1. TOP OF EXTERIOR FOOTING ELEVATION (-3' - 6") UNO.
   TOP OF INTERIOR FOOTING ELEVATION (-1' - 0") UNO
2. TOP OF FOUNDATION WALL ELEVATION (+0' - 0") UNO.
   TOP OF FOUNDATION WALL ELEVATION AT PRECAST WALL PANEL (-1'-0")
3. TOP OF PIER ELEVATION (-0' - 8") UNO.
4. BP# INDICATES BASE PLATE. REFER TO S5.00 FOR ANCHOR ROD AND BASE PLATE DETAILS.
5. P# INDICATES CONCRETE PIER. REFER TO S3.01 FOR DETAILS.
6. SF# AND CF# INDICATE SPREAD AND CONTINUOUS FOOTINGS. REFER TO S1.11 FOR SCHEDULES.
7. REFER TO 13, 14 AND 15/S3.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
8. PROVIDE CORNER BARS FOR FOOTINGS AND WALLS PER 6/S3.00 AND 10/S3.00 - OR - PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
9. PROVIDE THICKENED SLAB AT ALL NON-STRUCTURAL MASONRY WALLS PER 16/S3.00, COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. SLEEVE UTILITIES THROUGH FOUNDATION PER 7/S3.00. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
11. SEE S0.00 FOR TYPICAL MASONRY WALL INFO AND REINFORCING.
12. REFER TO S1.10 FOR OVERALL FOUNDATION DIMENSIONAL PLAN.
13. BUILDING SITE CONSISTS OF UNDOCUMENTED EXISTING FILL MATERIAL. CONTRACTOR IS TO REMOVE THE FILL AND REPLACE WITH ENGINEERED FILL BELOW THE SLAB ON GRADE AND THE FOOTINGS. EXISTING FILL MATERIAL VARIES ON SITE. AT A MINIMUM, IF SITE IS NOT STRIPPED OF UNDOCUMENTED FILL MATERIAL BELOW THE SLAB ON GRADE, THE FOOTINGS ARE TO STILL BEAR ON COMPETENT NATURAL SOILS OR NEW ENGINEERED FILL OVERLYING COMPETENT NATURAL SOILS.

KEYNOTES:

(1) SLEEVE UTILITIES THROUGH FOUNDATION - REFER TO NOTE 10.

(2) FLOOR SLEEVE. COORDINATE WITH EQUIPMENT MANUFACTURER.

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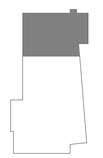
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

FOUNDATION PLAN - AREA 3

SHEET NUMBER:

S1.13

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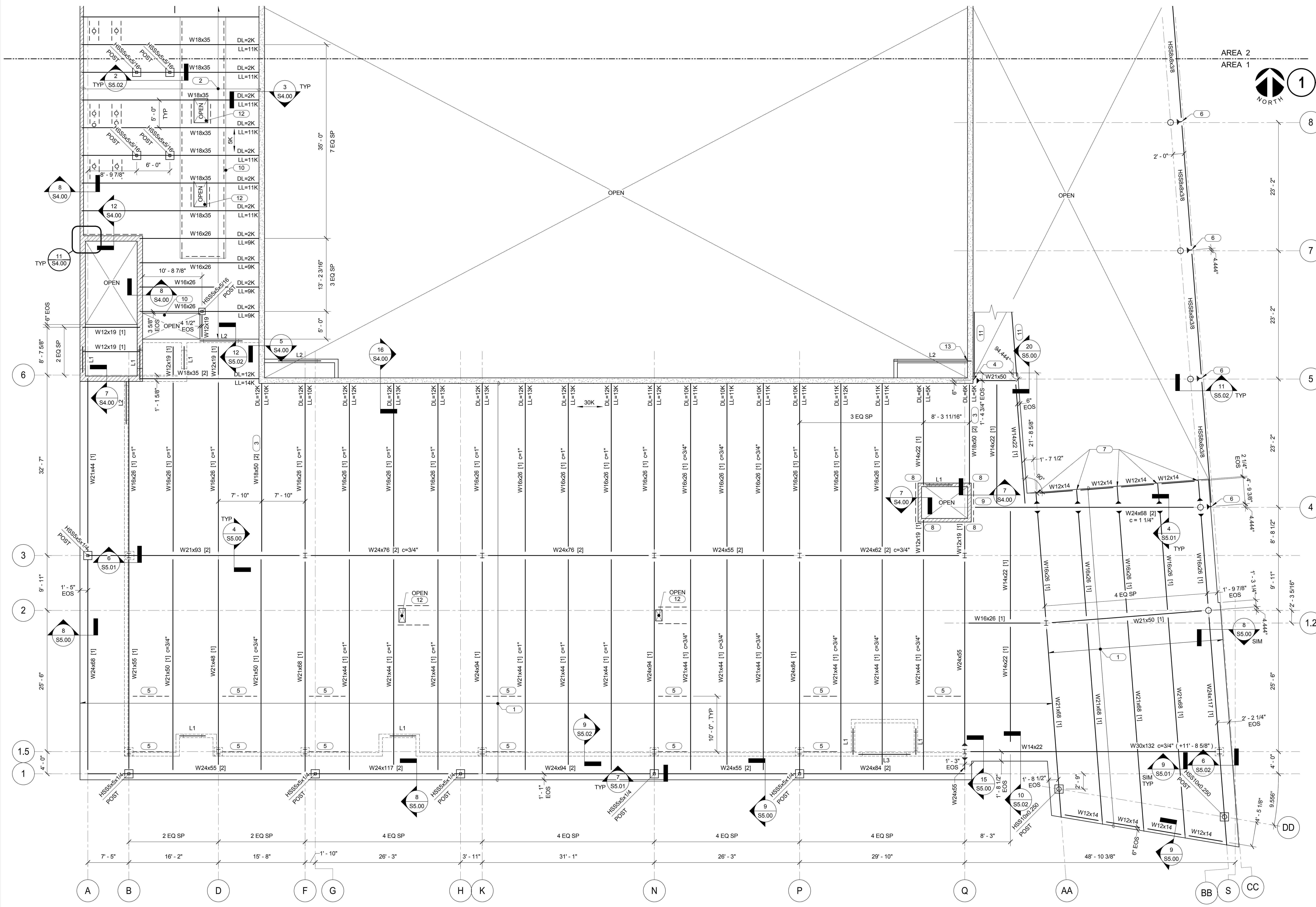

SECOND FLOOR FRAMING PLAN - AREA 1

1/8" = 1'-0"

NOTES:

1. TOP OF STEEL ELEVATION (+13' - 5 1/2"), UNO.
2. REFER TO 1, 2, AND 3/S5.01 FOR TYPICAL SHEAR CONNECTION.
3. REFER TO 4, 5, AND 6/S5.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS.
4. [#] INDICATES NUMBER OF 3/4"Ø x 0' - 5" HEADED WELDED STUDS PER FOOT OF BEAM LENGTH.
5. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO S0.00 FOR SCHEDULE.
6. PROVIDE BRACING OF NON-STRUCTURAL MASONRY PARTITION PER 13 AND 14/S4.00.
7. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
8. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
9. BEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
10. AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' - 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.
11. AT OPENINGS IN NON-LOAD BEARING INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS:

    OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR.

    OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.

    OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
12. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
13. DL=XX K, LL=XX K INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PRECAST WALL PANEL.

KEYNOTES:

1. 4 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2" (18 GA) COMPOSITE STEEL DECK WITH 6x6 - W2.9xW2.9 WWR (TOTAL THICKNESS = 6 1/2"). T/SLAB ELEVATION (+ 14' - 0"). CONNECT TO SUPPORTING MEMBERS WITH 5/8" PUDDLE WELDS AT 36/4 PATTERN WITH WELDED SIDELAPS @ 16" OC.
2. 1 1/2" TYPE B (20 GA) STEEL ROOF DECK. DECK BEARING EL(+13'-5 1/2"). CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 36/3 PATTERN AND #10 SCREWS @ 16" OC AT SIDELAPS.
3. BEAM IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR REACTION SHOWN ON PLAN PLUS 36KIPS SERVICE WIND AXIAL LOAD. TYPICAL SHEAR CONNECTION SHALL USE THE KNIFE PLATE CONNECTION CONFIGURATION.
4. BEAM IS MOMENT CONNECTED TO PRECAST PANEL. PRECAST SUPPLIER TO DESIGN PANEL FOR MD = 56 KIP*FEET, ML = 48 KIP*FEET AND VD = 10.2 K, VL = 8.7 K.
5. L3x3x1/4 FROM BOTTOM FLANGE OF CANTILEVERED BEAM TO TOP FLANGE OF ADJACENT BEAM. REFER TO 13/S5.00.
6. HSS8x8x3/8.
7. W12x26.
8. MASONRY BEARING PLATE, 3/8"x5"x0'-8", REF DETAIL 8/S4.00.
9. MASONRY BEARING PLATE, 3/8"x7"x0'-10", REF DETAIL 8/S4.00.
10. FRAMING IS DESIGNED FOR A 21,600 LB AIR HANDLING UNIT. CONTRACTOR TO COORDINATE THE UNIT PLACEMENT WITH THE STEEL FABRICATOR TO ENSURE ANGLES ARE PLACED UNDER THE UNIT RAILS/CURB. PROVIDE L6x4x3/8 (LLV) BELOW CURB.
11. C15x33.9 STAIR STRINGER.
12. COORDINATE OPENING LOCATIONS WITH MECHANICAL CONTRACTOR.
13. PROVIDE L8x8x3/8 ANGLE SUPPORT BELOW LINTEL. PRECASTER TO PROVIDE EMBED PLATE FOR CONNECTION.

dkA

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JOLIET JUNIOR COLLEGE
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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

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REFERENCE SCALE IN INCHES
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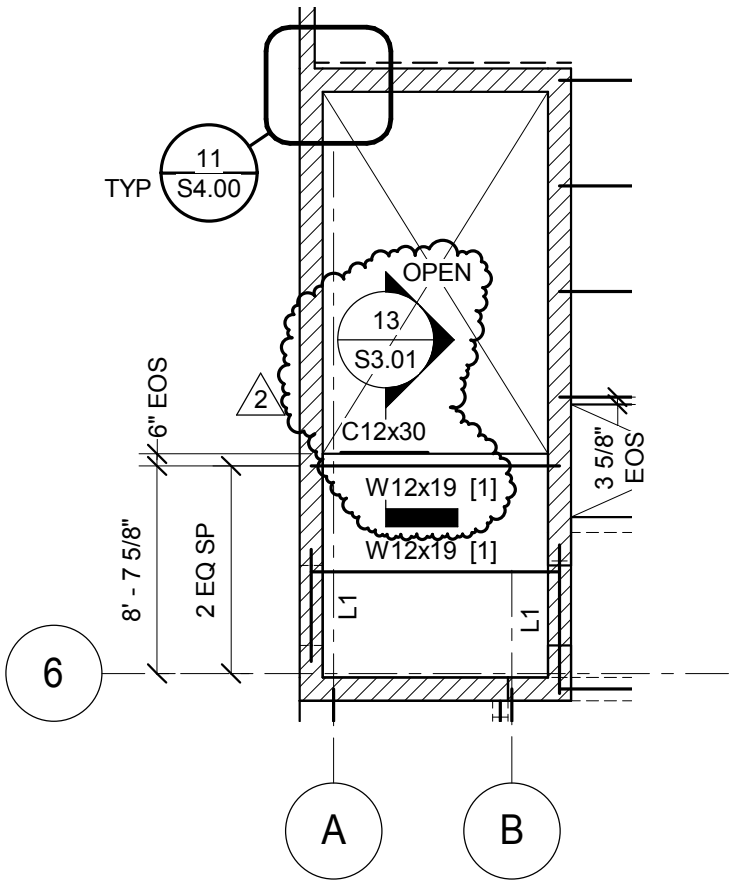
SHEET TITLE:

SECOND FLOOR FRAMING PLAN - AREA 1

SHEET NUMBER:

S1.21



SECOND FLOOR FRAMING PLAN - AREA 1

1/8" = 1'-0"

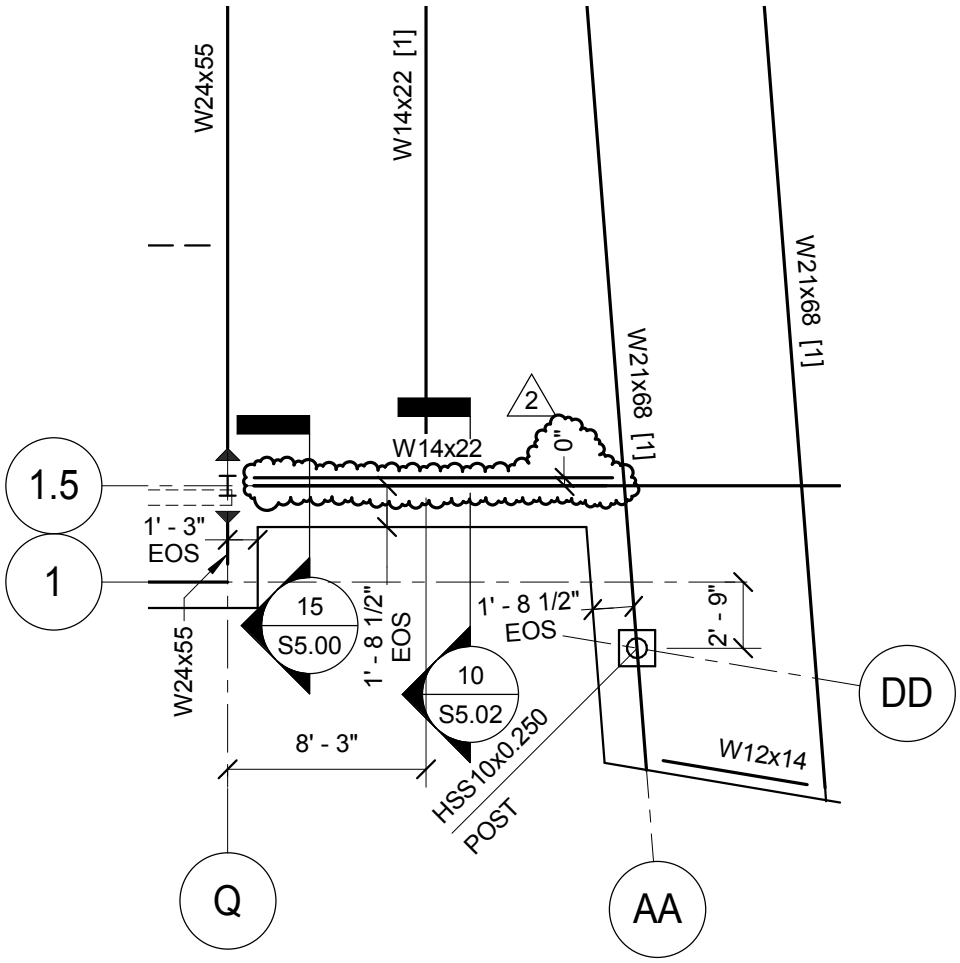
NORTH

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

PROJECT: 14-004
DATE: 08/06/2015
REF SHEET:

ADDENDA 2 - BP2

S1.21-01



SECOND FLOOR FRAMING PLAN - AREA 1

1/8" = 1'-0"

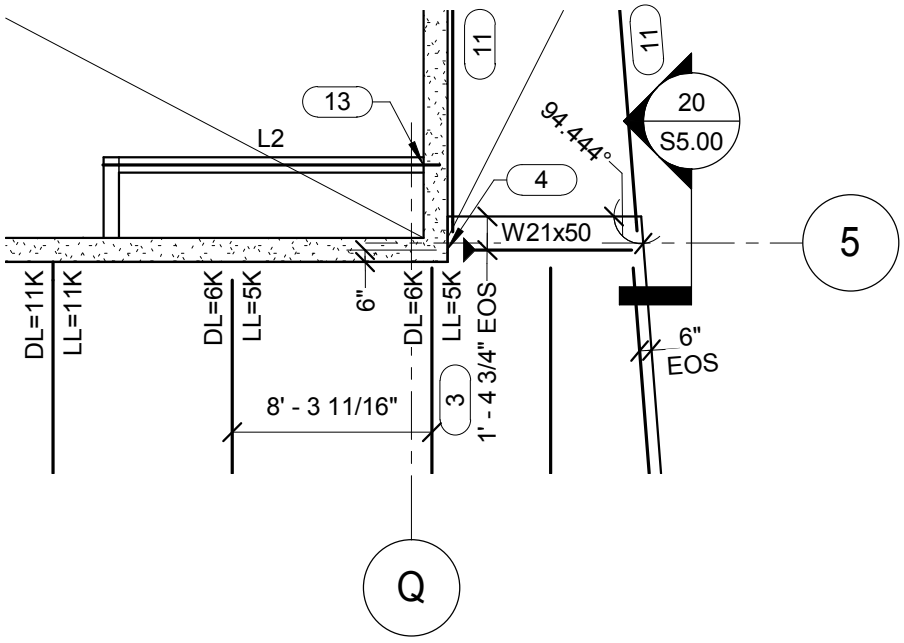
NORTH

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

PROJECT: 14-004
DATE: 08/06/2015
REF SHEET: S1.21

ADDENDA 2 - BP2

S1.21-02



SECOND FLOOR FRAMING PLAN - AREA 1

1/8" = 1'-0"

NORTH

KEYNOTES:

13 REFER TO DETAIL 12/S3.01. 2

SECOND FLOOR FRAMING PLAN - AREA 2

1/8" = 1'-0"

NOTES:

1. TOP OF STEEL ELEVATION (+13' - 5 1/2"), UNO.
2. REFER TO 1, 2, AND 3/5.01 FOR TYPICAL SHEAR CONNECTION.
3. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO S0.00 FOR SCHEDULE.
4. PROVIDE BRACING OF NON STRUCTURAL MASONRY PARTITION PER 13 & 14/S4.00.
5. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
6. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
7. AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' - 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.
8. AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS:
9. OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR.

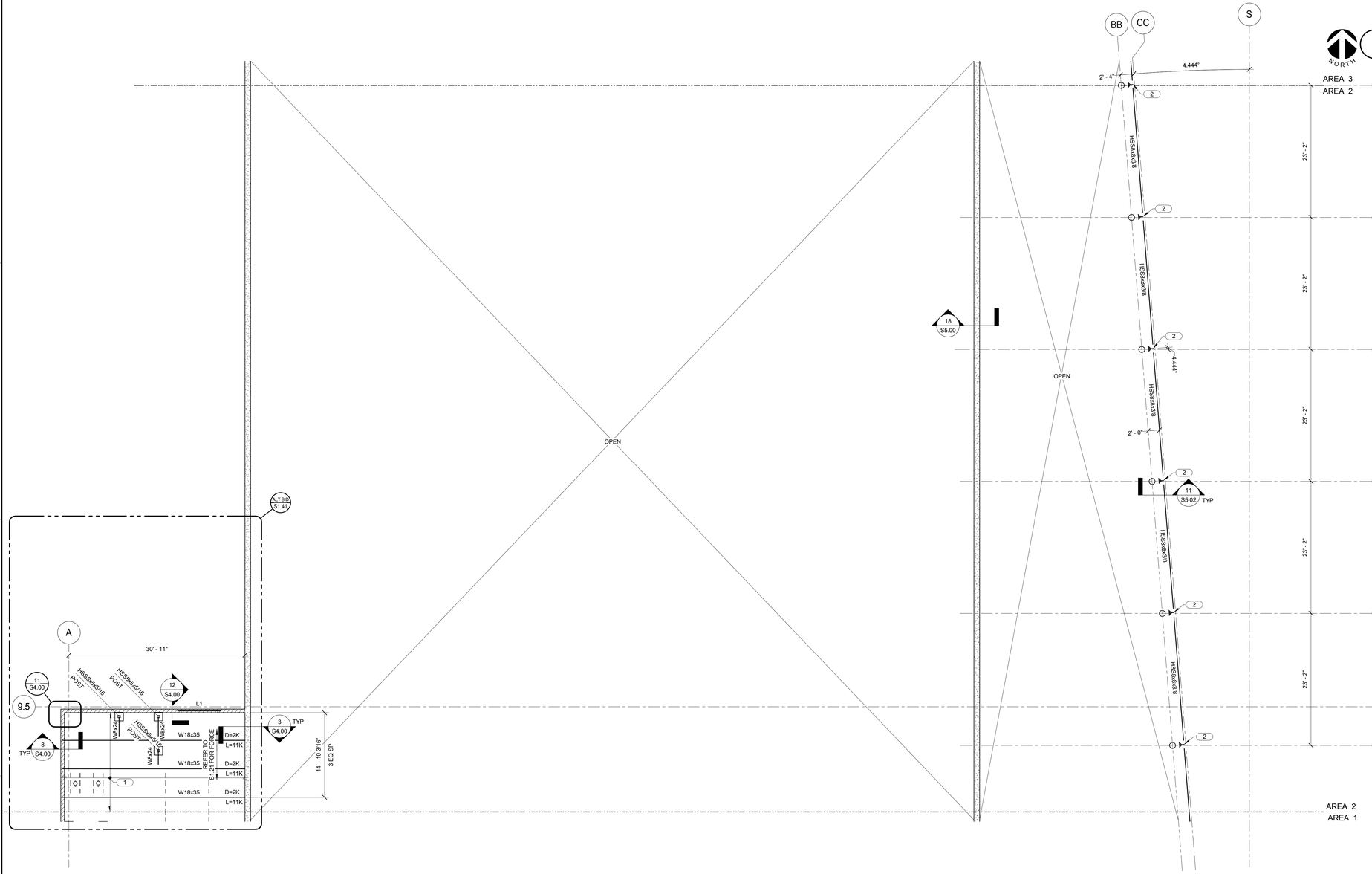
   OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.

   OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
10. XXK ← INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
11. DL=XXK, LL=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL.

KEYNOTES:

(1) 1 1/2" TYPE B (20 GA) STEEL ROOF DECK. DECK BEARING EL (+ 13' - 5 1/2"). CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 36/3 PATTERN AND #10 SCREWS @ 16" OC AT SIDELAPS.

(2) HSS8x8x3/8.



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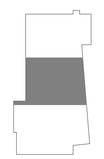
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
SECOND FLOOR FRAMING PLAN - AREA 2

SHEET NUMBER:
S1.22

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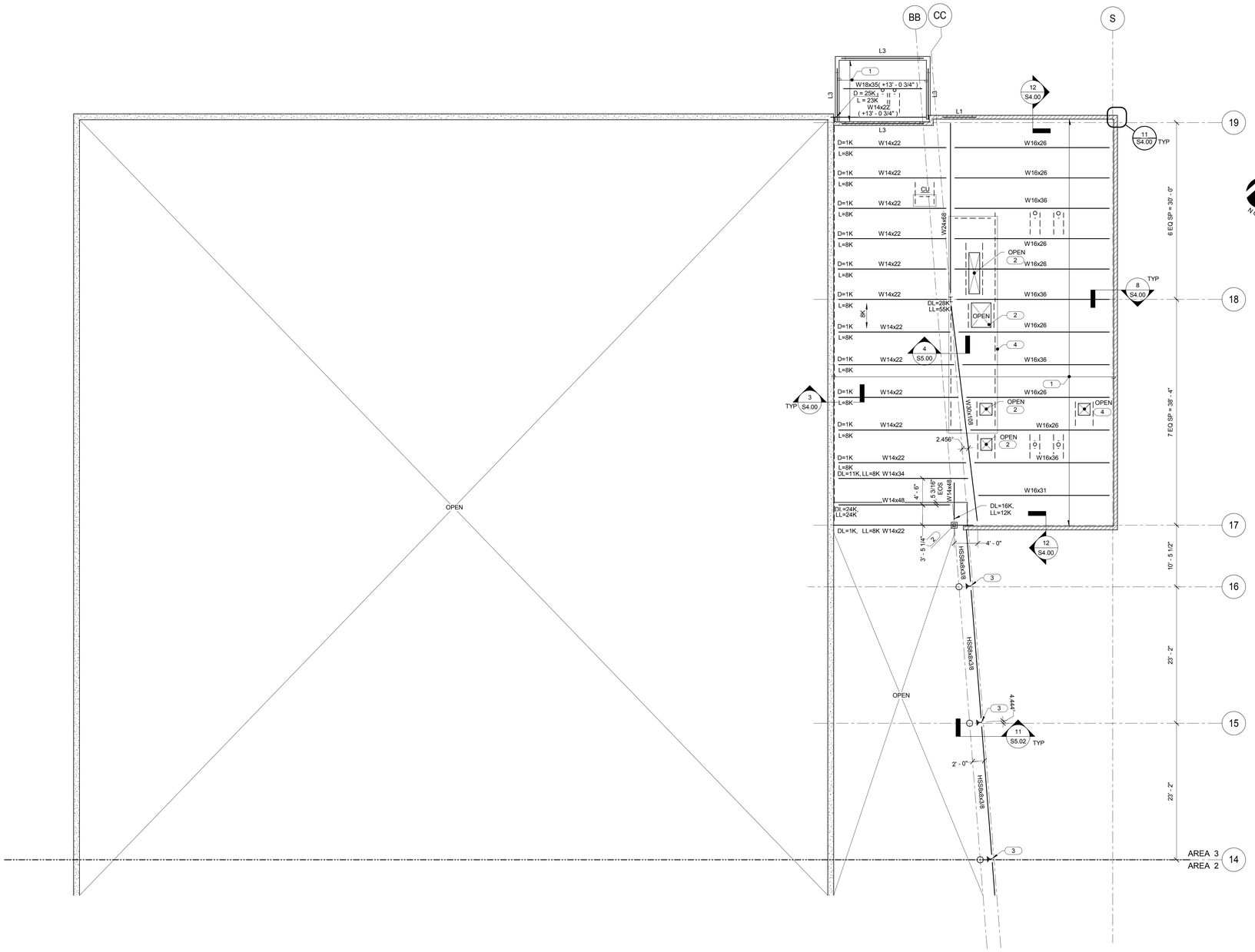

NORTH

1

SECOND FLOOR FRAMING PLAN - AREA 3

1/8" = 1'-0"

NOTES:

1. TOP OF STEEL ELEVATION (+13' - 5 1/2"), UNO.
2. REFER TO 1, 2, AND 3/5.01 FOR TYPICAL SHEAR CONNECTION.
3. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO S0.00 FOR SCHEDULE.
4. PROVIDE BRACING OF NON STRUCTURAL MASONRY PARTITION PER 13 & 14/S4.00
5. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
6. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
7. BEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
8. AT INTERIOR NON-LOAD BEARING MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' - 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.

   AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS:

   OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR.

   OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.

   OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
9. XXX INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
10. DL=XXK, LL=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PRECAST WALL PANEL.

KEYNOTES:

(1) 1 1/2" TYPE B (20 GA) STEEL ROOF DECK. CONNECT TO SUPPORTING MEMBERS WITH 5/8" PUDDLE WELDS AT 36/5 PATTERN WITH WELDED SIDELAPS @ 9" OC.

(2) COORDINATE OPENING LOCATIONS WITH MECHANICAL CONTRACTOR.

(3) HSS8x8x3/8.

(4) FRAMING IS DESIGNED FOR A 19,200 LB AIR HANDLING UNIT. CONTRACTOR TO COORDINATE THE UNIT PLACEMENT WITH THE STEEL FABRICATOR TO ENSURE ANGLES ARE PLACED UNDER THE UNIT RAILS/CURB. PROVIDE L6x4x3/8 (LLV) BELOW CURB.

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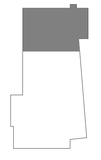
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

SECOND FLOOR FRAMING PLAN - AREA 3

SHEET NUMBER:

S1.23

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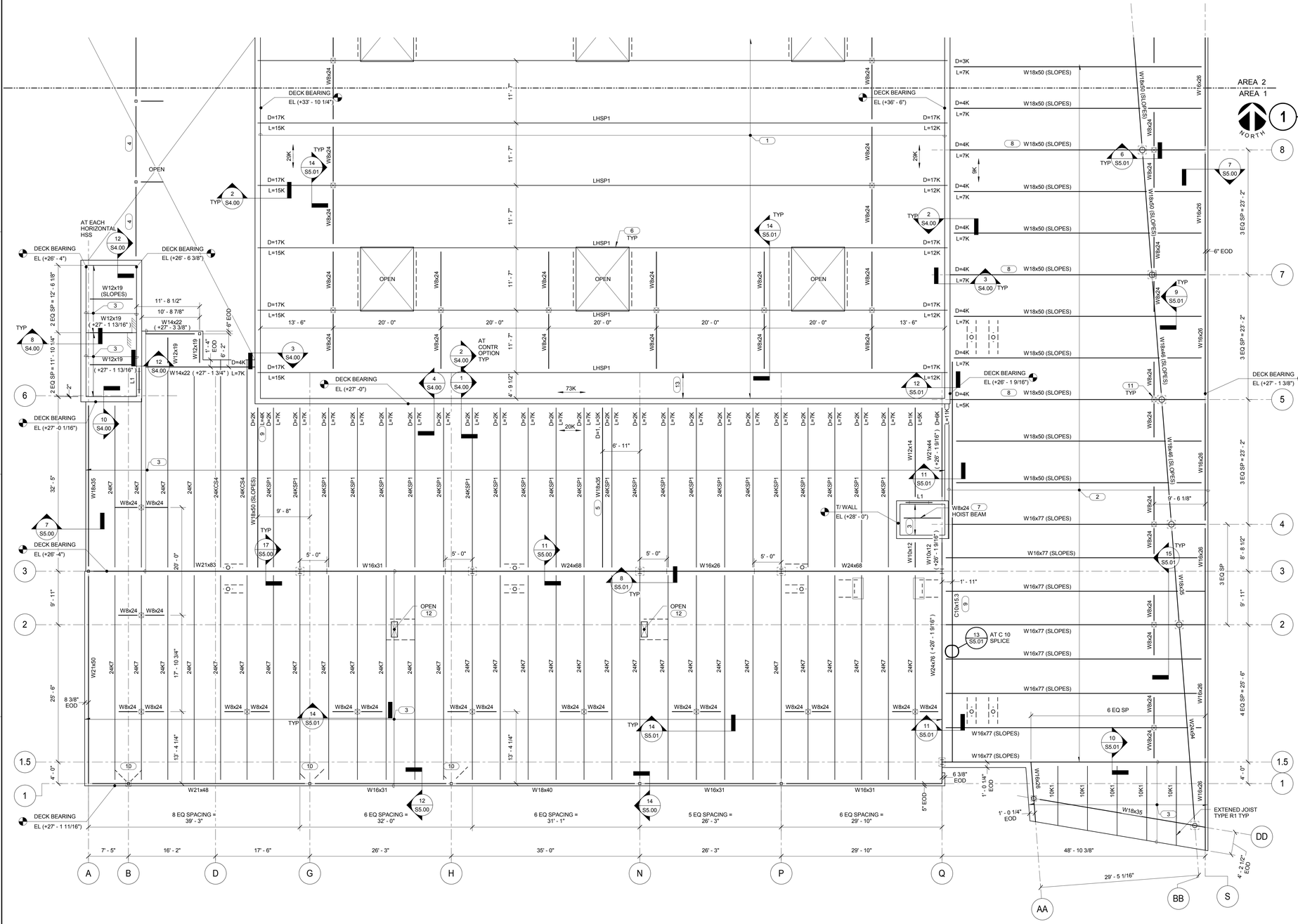

ROOF FRAMING PLAN - AREA 1

1/8" = 1'-0"

NOTES:

1. REFER TO PLAN FOR DECK BEARING ELEVATION.
2. REFER TO 1, 2, AND 3/S5.01 FOR TYPICAL SHEAR CONNECTION.
3. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO S4.00 FOR SCHEDULE. ML# INDICATES MECHANICAL OPENING IN MASONRY WALL - REFER TO S4.00 FOR SCHEDULE.
4. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
5. KSP# AND LHSP# INDICATES SPECIAL JOIST. REFER TO SHEET S5.02 FOR LOAD DIAGRAM.
6. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
7. BEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
8. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONN TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
9. DL=XXK, LL=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL. REFER TO S/S5.01 AT SLOPING FRAMING.
10. PROVIDE JOIST MODIFICATION PER 16/S5.00 AS REQUIRED WHEN HANGING DUCT/PIPE/EQUIPMENT FROM JOISTS.
11. COORDINATE JOIST BRIDGING WITH MECHANICAL DUCT WORK IN JOIST SPACE RUNNING PARALLEL TO JOISTS

KEYNOTES:

1. 4" (18 GA) TORIS-A ACOUSTICAL ROOF DECK; CONNECT TO SUPPORTING MEMBERS WITH PUDDLE WELDS AT 24/3 PATTERN; CONNECT SIDELAPS WITH #12 SCREWS @ 8" OC.
2. 3" TYPE N (20 GA) ACOUSTICAL STEEL ROOF DECK. CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 24/4 PATTERN AND #10 SCREWS @ 16" OC AT SIDELAPS.
3. 1 1/2" TYPE B (20 GA) STEEL ROOF DECK. CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 36/4 PATTERN AND #10 SCREWS @ 12" OC AT SIDELAPS.
4. HSS5x5x5/16 EL (+24' - 6") AND (+16' - 6").
5. BEAM SUPPORTS OPERABLE PARTITION WALL. TOP OF BEAM = TOP OF GIRDER.
6. SKYLIGHT OPENINGS - COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.
7. COORDINATE HOIST BEAM SIZE AND LOCATION WITH ELEVATOR MANUFACTURER.
8. MEMBER IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR REACTION SHOWN IN PLAN PLUS 8 KIPS SERVICE WIND AXIAL LOAD. TYPICAL SHEAR CONNECTION SHALL USE THE KNIFE PLATE CONNECTION CONFIGURATION.
9. BEAM/CHANNEL IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR 25 KIPS SERVICE WIND AXIAL LOAD. TYPICAL SHEAR CONNECTION SHALL USE THE KNIFE PLATE CONNECTION CONFIGURATION.
10. PROVIDE L3X3X1/4 AT 45 DEGREES TO BRACE TOP OF COLUMN TO ADJACENT JOISTS.
11. ROOF DAVIT - COORDINATE LOCATION WITH ARCHITECTURAL. REFER TO DETAILS FOR LOADING ON JOISTS.
12. COORDINATE OPENING LOCATIONS WITH MECHANICAL CONTRACTOR.
13. PROVIDE SINGLE SPAN DECK PANEL BETWEEN PRECAST WALL AND JOIST.
14. JOIST TO BE DESIGNED FOR 800 LB POINT LOAD AT EXTENDED JOIST END FOR FACADE SUPPORT.

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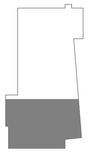
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF FRAMING PLAN - AREA 1

SHEET NUMBER:
S1.31

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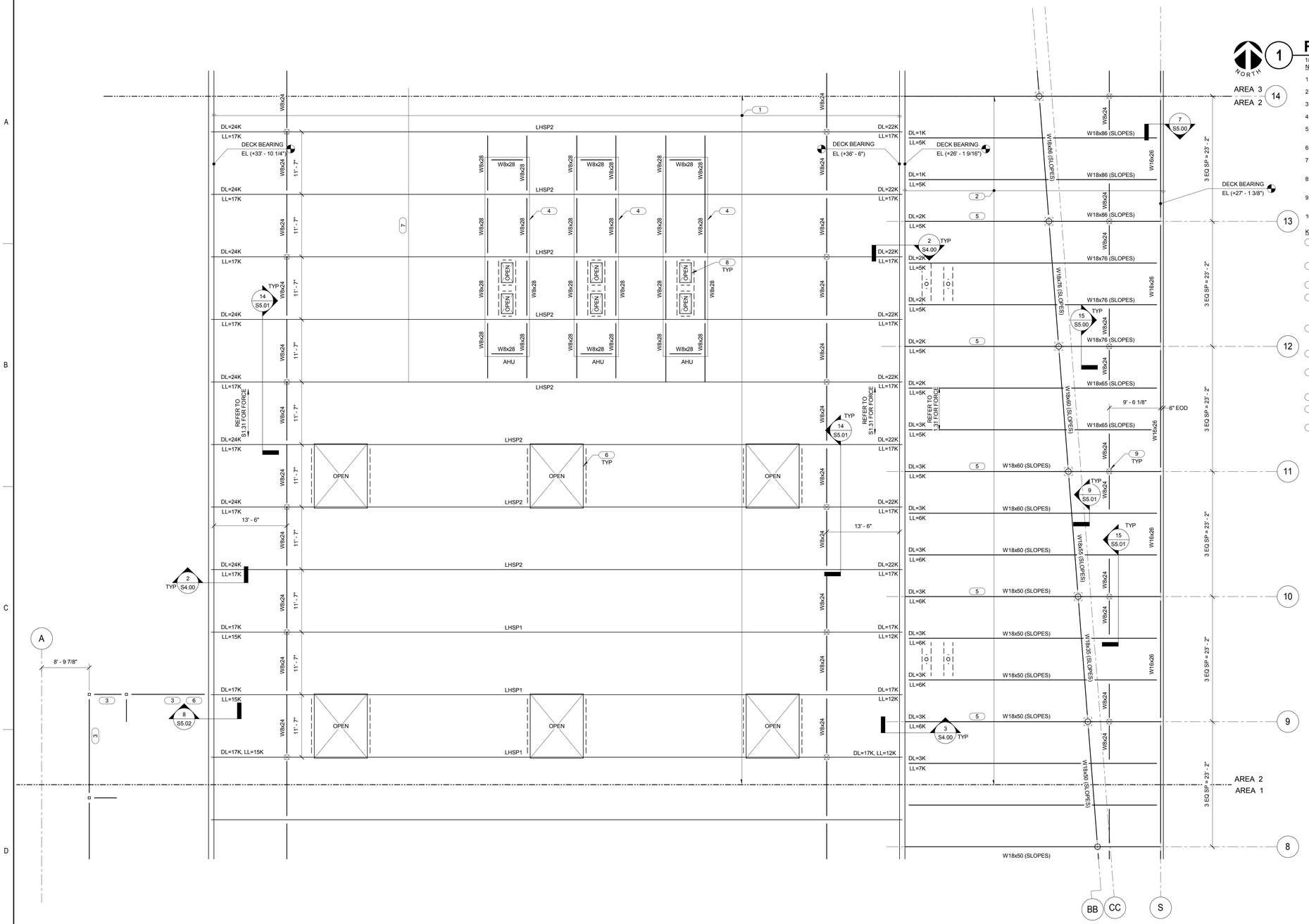

ROOF FRAMING PLAN - AREA 2

1/8" = 1'-0"

NOTES:

1. REFER TO PLAN FOR DECK BEARING ELEVATION.
2. REFER TO 1, 2, AND 3/S5.00 FOR TYPICAL SHEAR CONNECTION.
3. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
4. LHSP# INDICATES SPECIAL JOIST. REFER TO SHEET S5.02 FOR LOAD DIAGRAM.
5. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
6. BEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
7. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONN TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
8. DL=XXK, LL=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL. REFER TO 5/S5.01 AT SLOPING FRAMING
9. PROVIDE JOIST MODIFICATION PER 16/S5.00 AS REQUIRED WHEN HANGING DUCT/PIPE/EQUIPMENT FROM JOISTS.
10. COORDINATE JOIST BRIDGING WITH MECHANICAL DUCT WORK IN JOIST SPACE RUNNING PARALLEL TO JOISTS.

KEYNOTES:

1. 4" (18 GA) TORIS-A ACOUSTICAL ROOF DECK; CONNECT TO SUPPORTING MEMBERS WITH PUDDLE WELDS AT 24/3 PATTERN; CONNECT SIDELAPS WITH #12 SCREWS @ 8" OC.
2. 3" TYPE N (20 GA) STEEL ROOF DECK. CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 36/3 PATTERN AND #10 SCREWS @16" OC AT SIDELAPS.
3. HSS5x5x5/16 EL (+24' - 6") AND (+16' - 6").
4. FRAMING IS DESIGNED FOR A 19,300 LB AIR HANDLING UNIT. GENERAL CONTRACTOR TO COORDINATE THE UNIT PLACEMENT WITH THE STEEL FABRICATOR TO ENSURE BEAMS ARE PLACED UNDER THE UNIT RAILS/CURB AND THE JOISTS ARE PROPERLY DESIGNED.
5. BEAM IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR REACTION SHOWN IN PLAN PLUS 8 KIPS SERVICE WIND AXIAL LOAD. TYPICAL SHEAR CONNECTION SHALL USE THE KNIFE PLATE CONNECTION CONFIGURATION.
6. PRECASTER TO DESIGN CONNECTION FOR 2 KIPS HORIZONTAL SHEAR AND 2 KIPS SERVICE WIND AXIAL LOAD.
7. MOTORIZED LIGHTING RIGGING TRACK HOIST TO BE SUPPORTED FROM BOTTOM CHORD OF JOISTS - COORDINATE FINAL LOCATION AND WEIGHT WITH ELECTRICAL CONTRACTOR; APPROXIMATE WEIGHT = 1 KIP AT EACH JOIST.
8. COORDINATE OPENING LOCATIONS WITH MECHANICAL CONTRACTOR.
9. ROOF DAVIT - COORDINATE LOCATION WITH ARCHITECTURAL. REFER TO DETAILS FOR LOADING ON JOISTS.
10. SKYLIGHT OPENINGS - COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.

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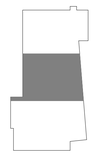
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF FRAMING PLAN - AREA 2

SHEET NUMBER:
S1.32

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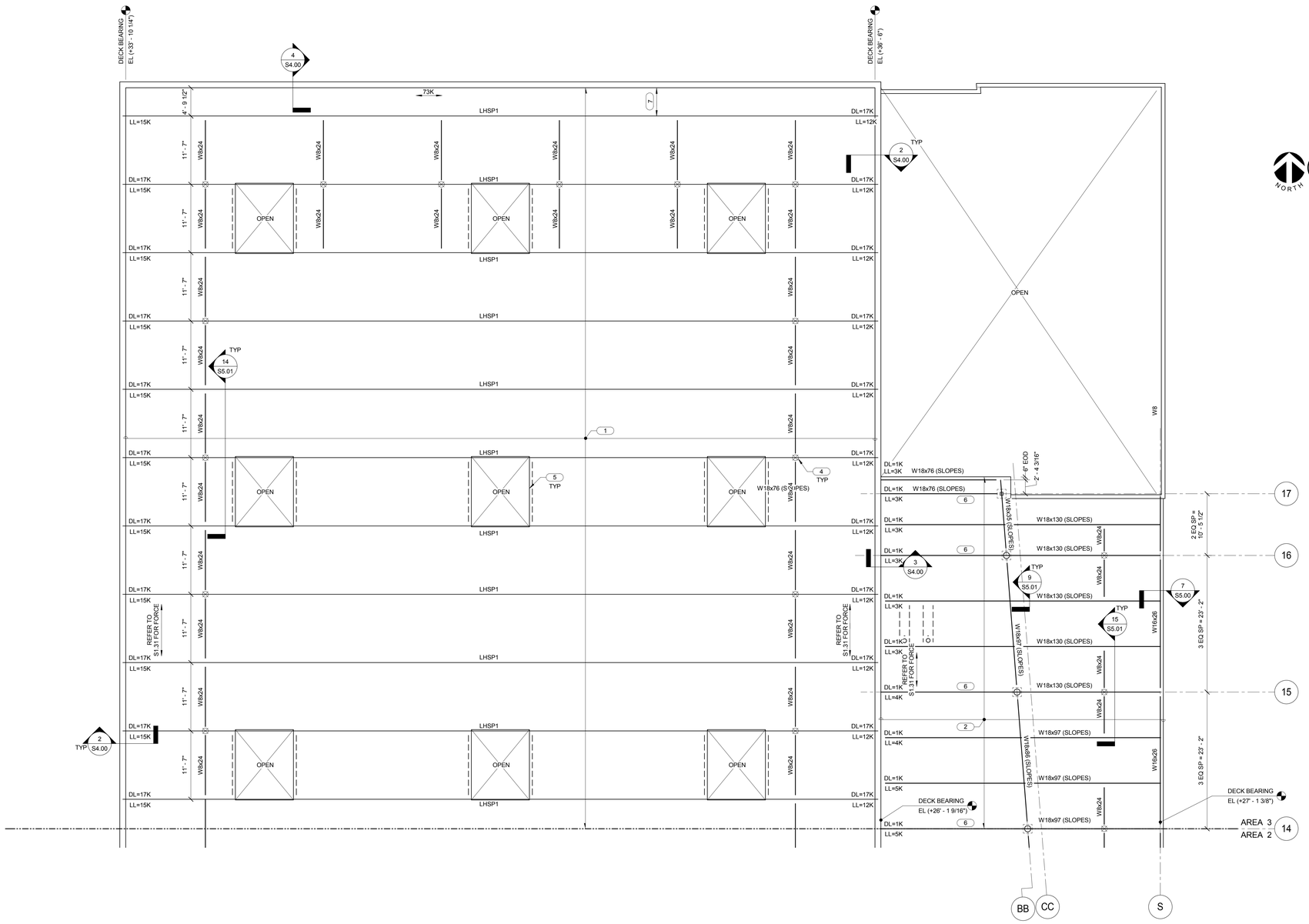

1 ROOF FRAMING PLAN - AREA 3

1/8" = 1'-0"

NOTES:

1. REFER TO PLAN FOR DECK BEARING ELEVATION.
2. REFER TO 1, 2, AND 3/S5.00 FOR TYPICAL SHEAR CONNECTION.
3. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
4. LHSP# INDICATES SPECIAL JOIST. REFER TO SHEET S5.02 FOR LOAD DIAGRAM.
5. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
6. BEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
7. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONN TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
8. DL=XXK, LL=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL. REFER TO 5/S5.01 AT SLOPING FRAMING.
9. PROVIDE JOIST MODIFICATION PER 16/S5.00 AS REQUIRED WHEN HANGING DUCT/PIPE/EQUIPMENT FROM JOISTS.
10. COORDINATE JOIST BRIDGING WITH MECHANICAL DUCT WORK IN JOIST SPACE RUNNING PARALLEL TO JOISTS.

KEYNOTES:

1. 4" (18 GA) TORIS-A ACOUSTICAL ROOF DECK; CONNECT TO SUPPORTING MEMBERS WITH PUDDLE WELDS AT 24/3 PATTERN; CONNECT SIDELAPS WITH #12 SCREWS @ 8" OC.
2. 3" TYPE N (20 GA) STEEL ROOF DECK. CONNECT TO SUPPORTING MEMBERS WITH #12 SCREWS AT 36/3 PATTERN AND #10 SCREWS @16" OC AT SIDELAPS.
3. HSS6X6X3/8 EL (+27' - 6").
4. ROOF DAVIT - COORDINATE LOCATION WITH ARCHITECTURAL. REFER TO DETAILS FOR LOADING ON JOISTS.
5. SKYLIGHT OPENINGS - COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.
6. PROVIDE SINGLE SPAN DECK PANEL BETWEEN PRECAST WALL AND JOIST.

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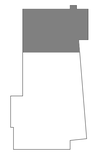

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

ROOF FRAMING PLAN - AREA 3

SHEET NUMBER:

S1.33

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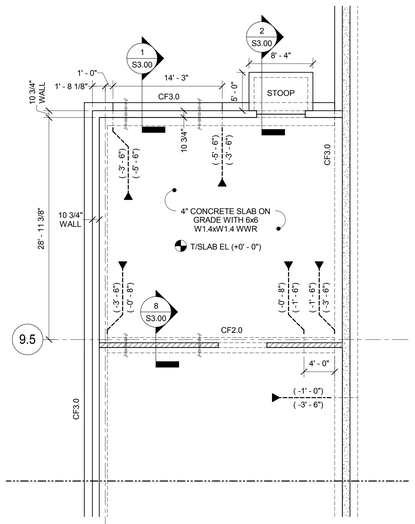

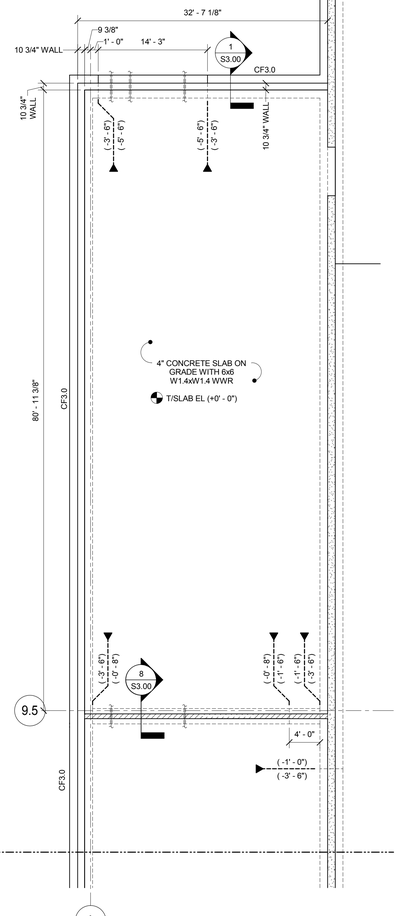

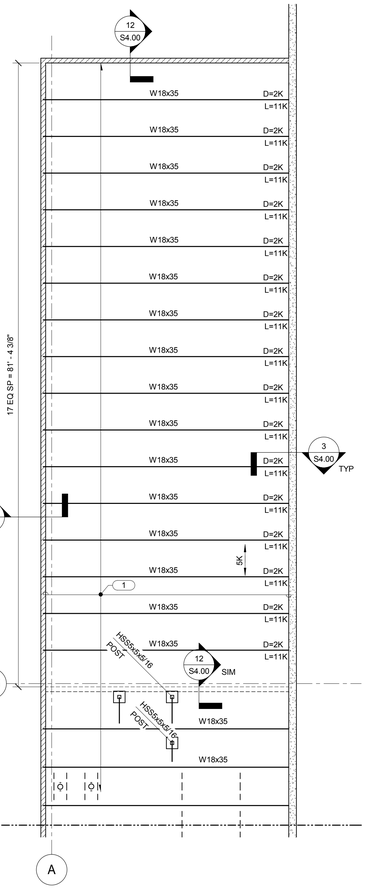

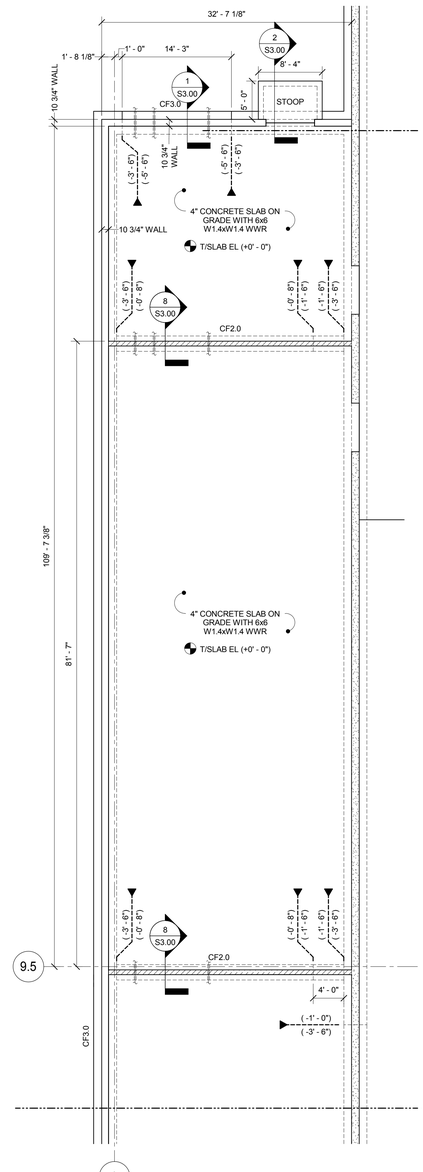

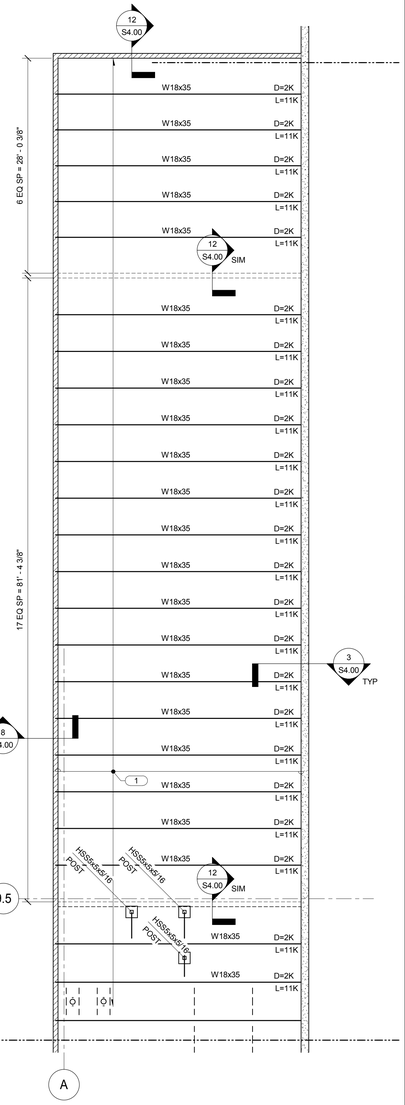

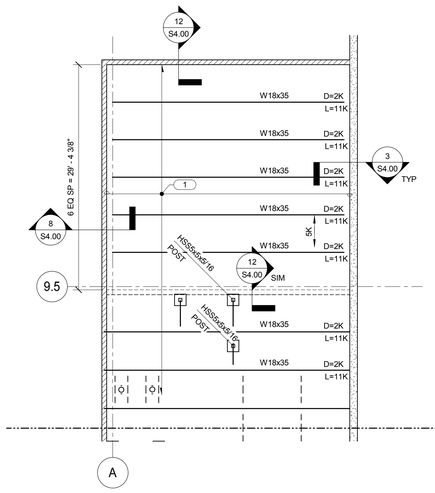

1 FOUNDATION PLAN - ALT BID 1

1/8" = 1'-0"

NOTES:

1. REFER TO S1.11 TO S1.13 FOR FOUNDATION INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

4 SECOND FLOOR FRAMING PLAN - ALT BID 1

1/8" = 1'-0"

NOTES:

1. REFER TO S1.21 TO S1.23 FOR FRAMING INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

KEYNOTES:

(1) 1 1/2" (20 GA) STEEL ROOF DECK. DECK BEARING EL (+ 13' - 5 1/2") CONNECT DECK PER KEYNOTE 2 ON S1.21.

2 FOUNDATION PLAN - ALT BID 2

1/8" = 1'-0"

NOTES:

1. REFER TO S1.10 TO S1.30 FOR FOUNDATION INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

5 SECOND FLOOR FRAMING PLAN - ALT BID 2

1/8" = 1'-0"

NOTES:

1. REFER TO S1.21 TO S1.23 FOR FRAMING INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

KEYNOTES:

(1) 1 1/2" (20 GA) STEEL ROOF DECK. DECK BEARING EL (+ 13' - 5 1/2"). CONNECT DECK PER KEYNOTE 2 ON S1.21.

3 FOUNDATION PLAN - ALT BID 3

1/8" = 1'-0"

NOTES:

1. REFER TO S1.11 TO S1.13 FOR FOUNDATION INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

6 SECOND FLOOR FRAMING PLAN - ALT BID 3

1/8" = 1'-0"

NOTES:

1. REFER TO S1.21 TO S1.23 FOR FRAMING INFORMATION. THIS PLAN IS FOR ALTERNATE BID.

KEYNOTES:

(1) 1 1/2" (20 GA) STEEL ROOF DECK. DECK BEARING EL (+ 13' - 5 1/2"). CONNECT DECK PER KEYNOTE 2 ON S1.21.

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

ALTERNATE BID

SHEET NUMBER:

S1.41

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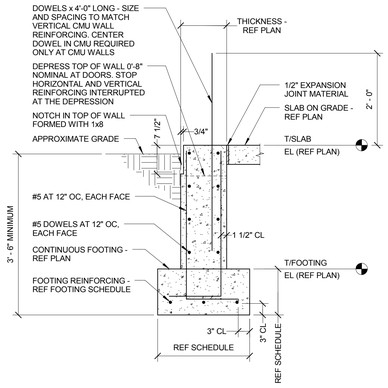
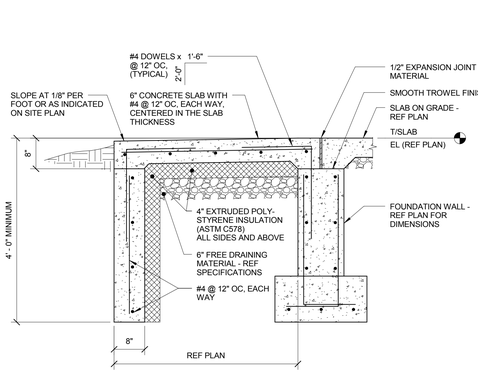


1 TYPICAL FOUNDATION WALL

3/4" = 1'-0"

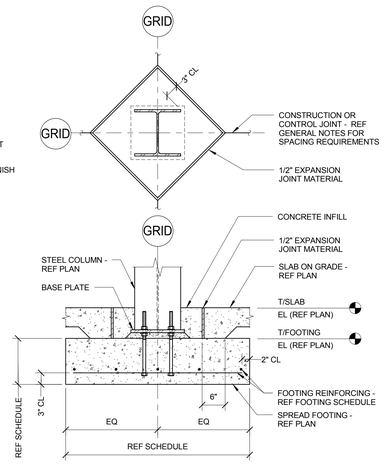


2 TYPICAL STOOP SECTION

3/4" = 1'-0"

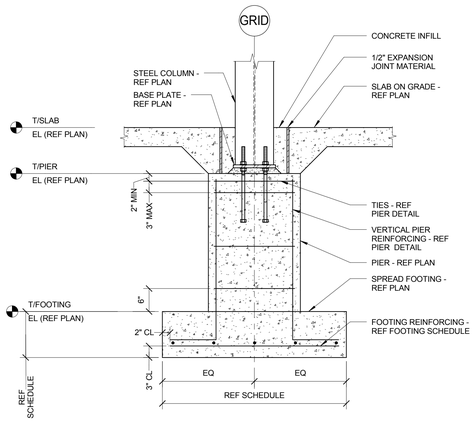
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.
2. REFER TO TYPICAL FOUNDATION WALL DETAIL FOR INFORMATION NOT SHOWN.
3. REFER TO 1/S3.00 FOR INFORMATION NOT SHOWN.



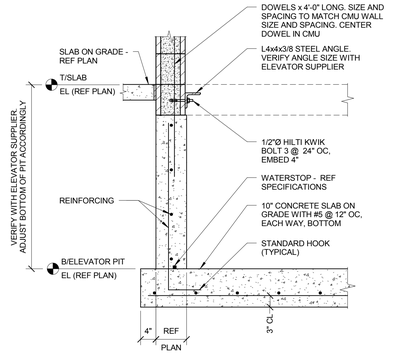
3 TYPICAL SPREAD FOOTING

3/4" = 1'-0"



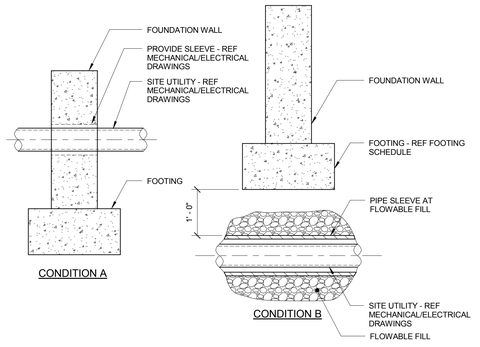
4 TYPICAL SPREAD FOOTING WITH PIER

3/4" = 1'-0"



5 ELEVATOR PIT SECTION

3/4" = 1'-0"

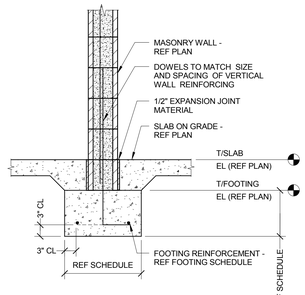


7 TYPICAL FOUNDATION DETAILS AT SITE UTILITIES

3/4" = 1'-0"

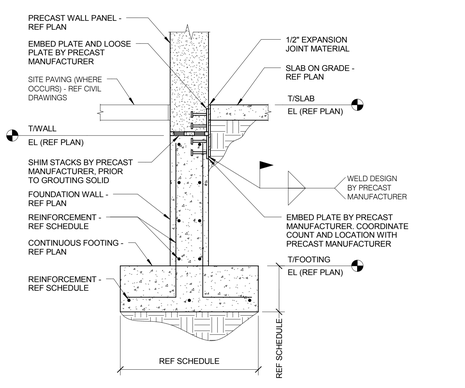
NOTES:

1. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC., OF SITE UTILITIES.
2. DETAIL REQUIRED AT ALL UTILITIES HAVING A PLAN WIDTH UP TO 3'-0". FOR WIDTHS GREATER THAN 3'-0", REFERENCE PLAN FOR REQUIRED DETAIL.
3. CONDITION B DOES NOT APPLY AT SPREAD FOOTING SITUATIONS. GENERAL CONTRACTOR SHALL NOTIFY ENGINEER SHOULD SUCH A CONDITION ARISE AND AWAIT FURTHER INSTRUCTIONS.



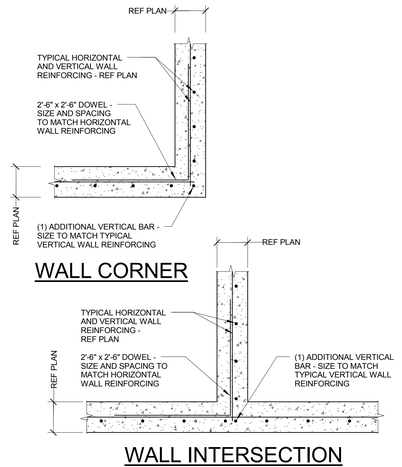
8 TYPICAL SECTION AT MASONRY WALL FOOTING

3/4" = 1'-0"



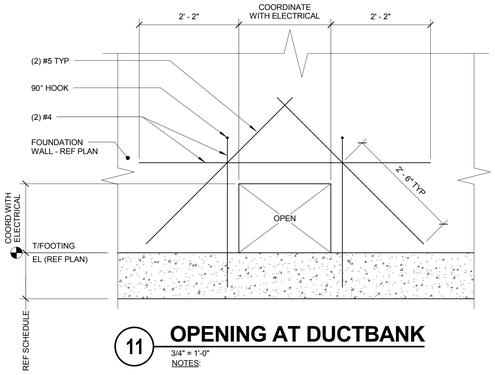
9 TYPICAL FOOTING AT EXTERIOR PRECAST WALL PANEL AT FOUNDATION WALL

3/4" = 1'-0"



10 TYPICAL CONCRETE WALL DETAIL

3/4" = 1'-0"



6 TYPICAL FOOTING CORNER BARS

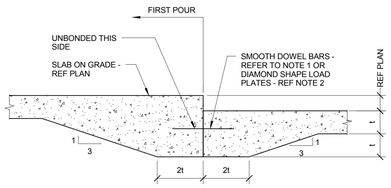
1/2" = 1'-0"

11 OPENING AT DUCTBANK

3/4" = 1'-0"

NOTES:

1. OPENING IS TO BE PLACED IN FOUNDATION WALL, NOT THROUGH FOOTING.
2. TYPICAL REINFORCING NOT SHOWN FOR CLARITY.
3. PROVIDE WATERSTOP AROUND OPENING.

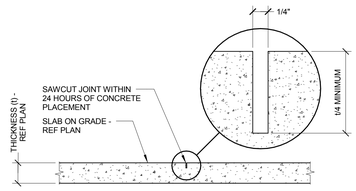


12 TYPICAL DEPRESSED SLAB

3/4" = 1'-0"

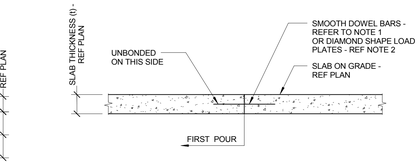
NOTES:

1. WHEN 't' IS 4" USE 1/2"Ø x 1'-4" SMOOTH DOWEL BARS AT 18" OC. WHEN 't' IS 5" USE 3/4"Ø x 1'-2" SMOOTH DOWEL BARS AT 12" OC.
2. WHEN 't' IS 4" TO 6" USE 1/4"x4 1/2"x4 1/2" DIAMOND LOAD PLATES AT 18" OC.



13 TYPICAL SLAB ON GRADE CONTROL JOINT

1" = 1'-0"

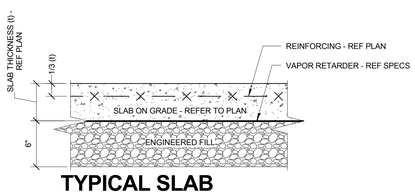


14 TYPICAL SLAB CONSTRUCTION JOINT

3/4" = 1'-0"

NOTES:

1. WHEN 't' IS 4" USE 1/2"Ø x 1'-4" SMOOTH DOWEL BARS AT 18" OC. WHEN 't' IS 5" USE 3/4"Ø x 1'-2" SMOOTH DOWEL BARS AT 12" OC.
2. USE 1/4"x4 1/2"x4 1/2" DIAMOND LOAD PLATES AT 18" OC.

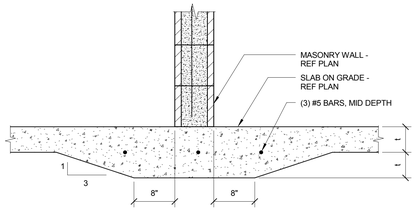


15 TYPICAL SLAB ON GRADE SECTION

1 1/2" = 1'-0"

NOTES:

1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.

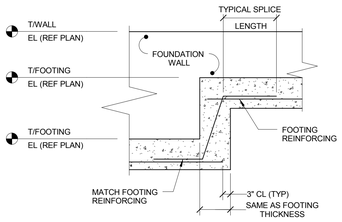


16 NON-BEARING WALL DETAIL

1" = 1'-0"

NOTES:

1. TO BE USED AT INTERIOR, NON-STRUCTURAL WALLS BRACED AT TOP OF THE WALL.



17 TYPICAL FOOTING STEP

1/2" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S3.00

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PROJECT # 14.0454.00
Illinois Design Firm Registration #184-000973

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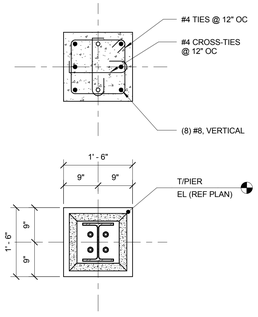
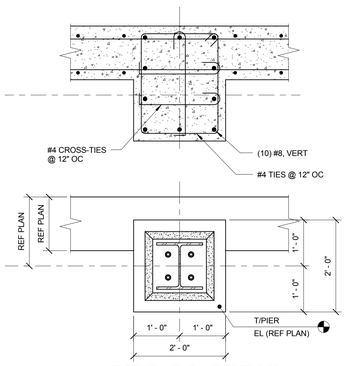
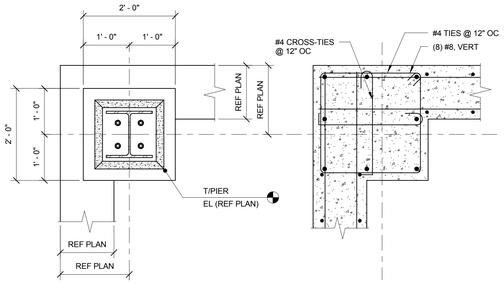


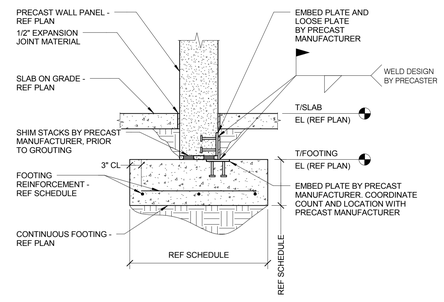
1 PIER (P1) DETAIL
3/4" = 1'-0"



2 PIER (P2) DETAIL
3/4" = 1'-0"



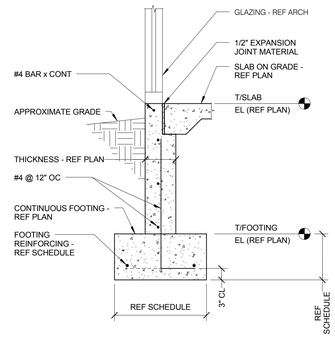
3 PIER (P3) DETAIL
3/4" = 1'-0"



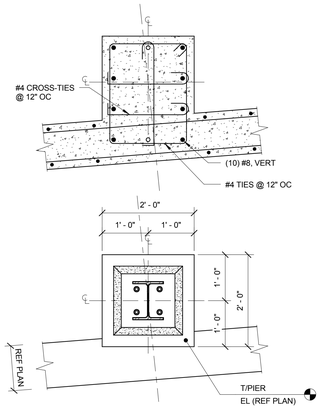
4 TYPICAL FOOTING AT INTERIOR PRECAST WALL PANEL
3/4" = 1'-0"

NOTES:

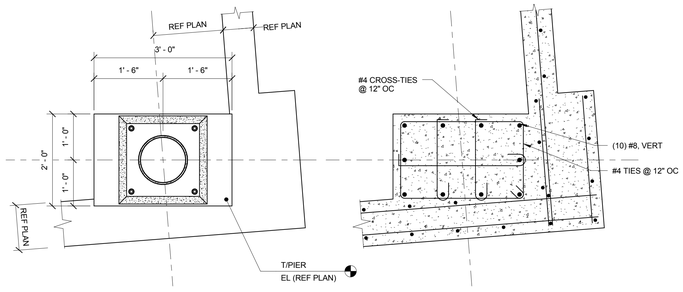
1. AT SIM LOCATIONS FIELDHOUSE SLAB ELEVATION VARIES, REFER TO PLAN



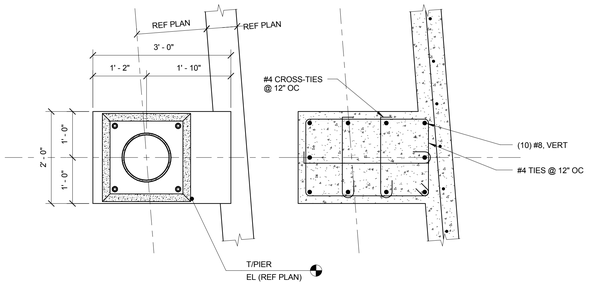
5 TYPICAL FOUNDATION WALL
3/4" = 1'-0"



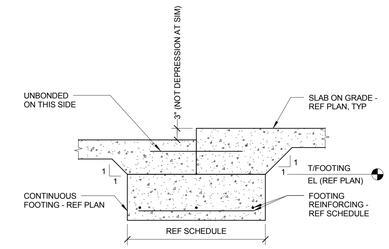
6 PIER (P4) DETAIL
3/4" = 1'-0"



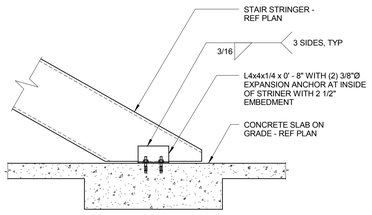
7 PIER (P5) DETAIL
3/4" = 1'-0"



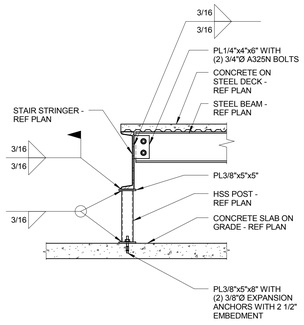
8 PIER (P6) DETAIL
3/4" = 1'-0"



9 SLAB JOINT AT FIELDHOUSE
3/4" = 1'-0"



10 STAIR STRINGER BASE DETAIL
3/4" = 1'-0"



11 STAIR LANDING SUPPORT DETAIL
3/4" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S3.01

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Illinois Design Firm Registration #184-000973

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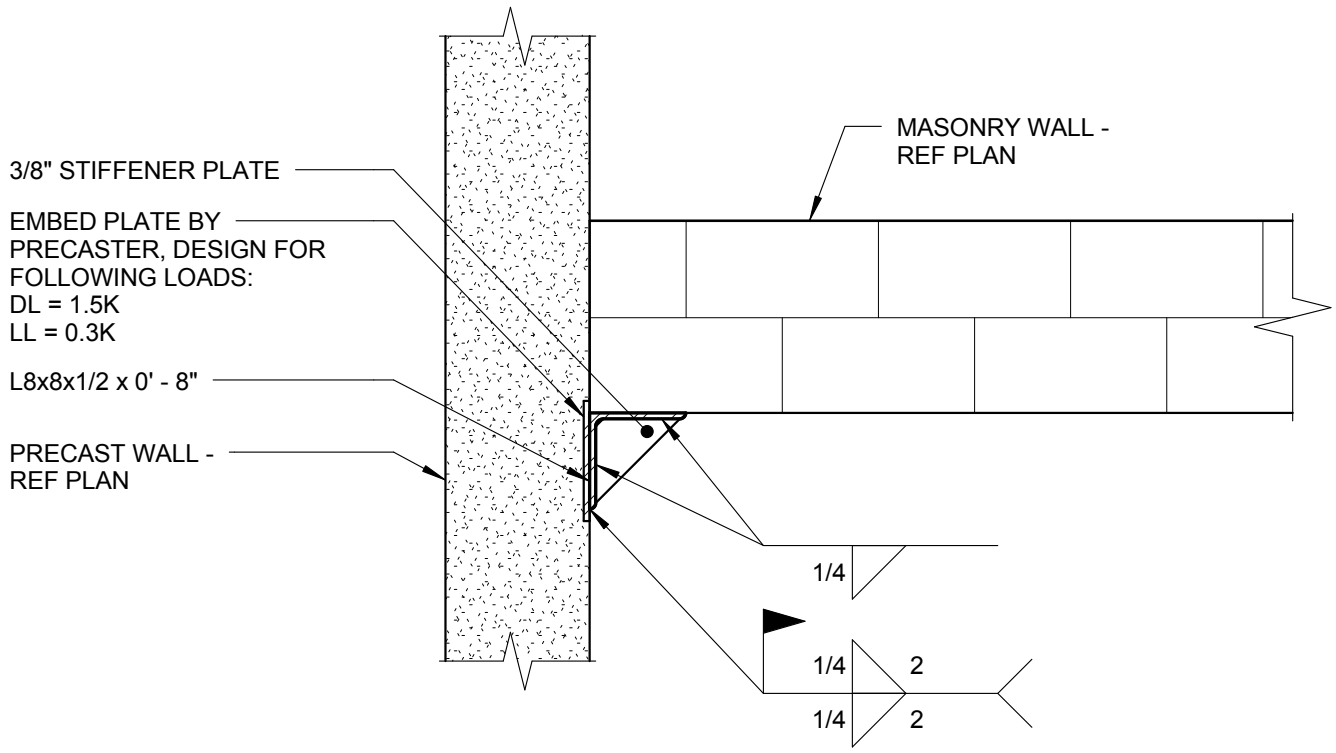
REFERENCE SCALE IN INCHES
0 1 2 3



12 LINTEL SUPPORT AT PRECAST WALL

3/4" = 1'-0"

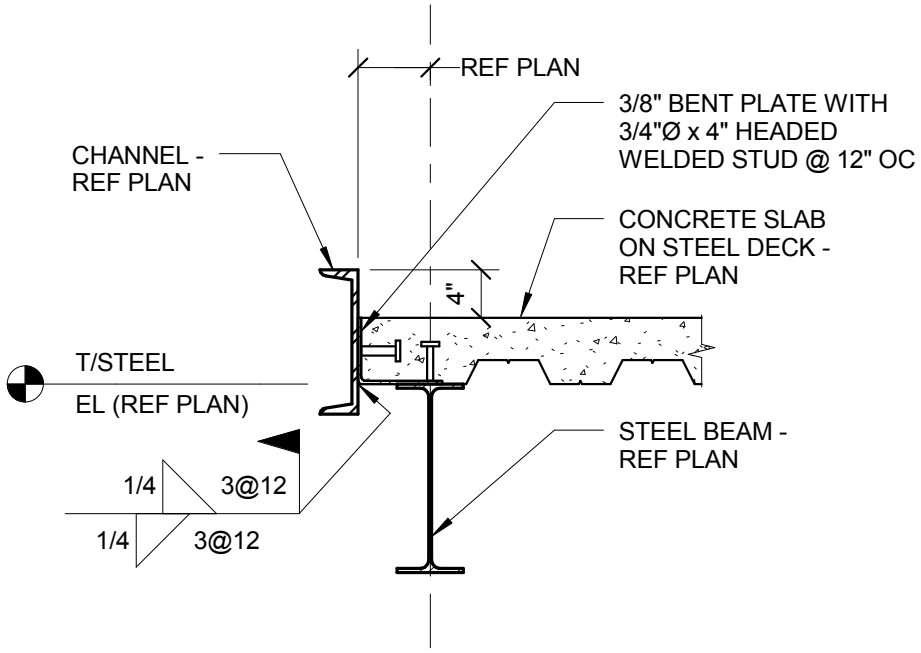
2

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

PROJECT: 14-004
DATE: 08/06/2015
REF SHEET: S3.01

ADDENDA 2 - BP2

S3.01-04



13 SECTION AT STAIR

3/4" = 1'-0"

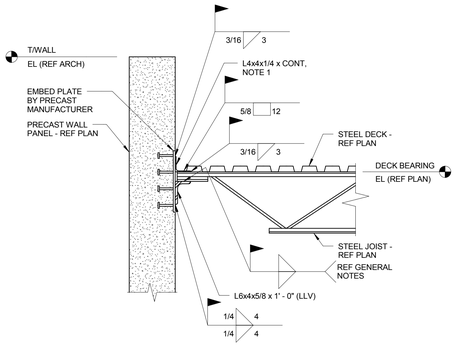
2

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

PROJECT: 14-004
DATE: 08/06/2015
REF SHEET: S3.01

ADDENDA 2 - BP2

S3.01-05

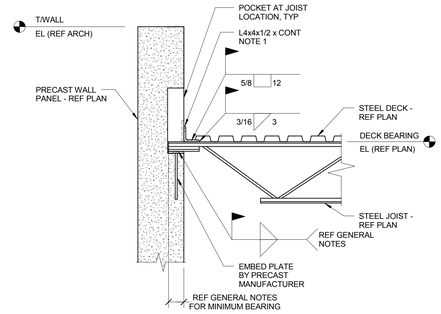


1 STEEL JOIST BEARING AT PRECAST WALL PANEL WITH EMBED PLATE

3/4" = 1'-0"

NOTES:

1. PROVIDE EMBED PLATE BY PRECAST MANUFACTURER IN WALL @ 4' - 0" OC MAXIMUM TO WELD TO CONTINUOUS ANGLE WITH 3/16" FILLET WELD 3" LONG. COORDINATE EMBED PLATES AROUND JOIST POCKETS.

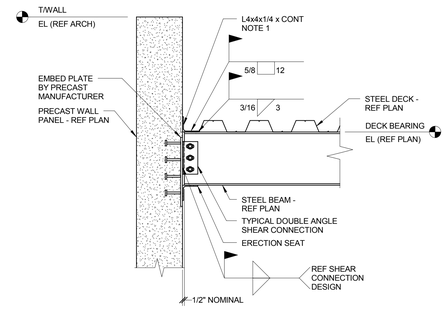


2 STEEL JOIST BEARING AT PRECAST WALL PANEL WITH POCKET

3/4" = 1'-0"

NOTES:

1. PROVIDE EMBED PLATE BY PRECAST MANUFACTURER IN WALL @ 4' - 0" OC MAXIMUM TO WELD TO CONTINUOUS ANGLE WITH 3/16" FILLET WELD 3" LONG. COORDINATE EMBED PLATES AROUND JOIST POCKETS.

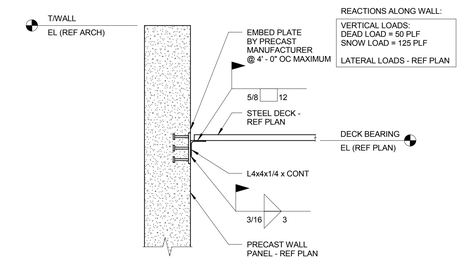


3 STEEL BEAM BEARING AT PRECAST WALL PANEL WITH EMBED PLATE

3/4" = 1'-0"

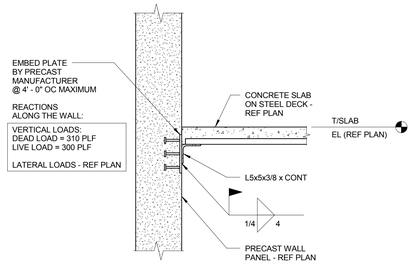
NOTES:

1. PROVIDE EMBED PLATE BY PRECAST MANUFACTURER IN WALL @ 4' - 0" OC MAXIMUM TO WELD TO CONTINUOUS ANGLE WITH 3/16" FILLET WELD 3" LONG. COORDINATE EMBED PLATES AROUND BEAM CONNECTIONS.



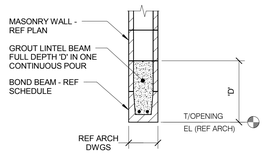
4 TYPICAL ROOF DECK SUPPORT AT PRECAST WALL PANEL

3/4" = 1'-0"



5 TYPICAL FLOOR DECK SUPPORT AT PRECAST WALL PANEL

3/4" = 1'-0"

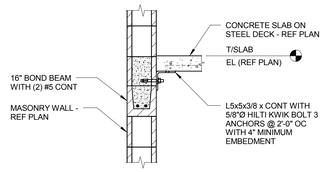


6 LINTEL DETAIL

3/4" = 1'-0"

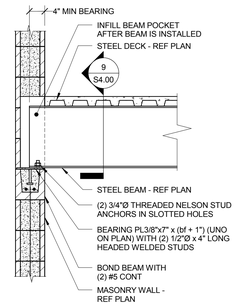
NOTES:

1. SHORE MASONRY UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.



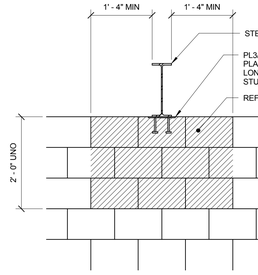
7 TYPICAL DECK SUPPORT AT MASONRY

3/4" = 1'-0"



8 TYPICAL BEAM BEARING ON MASONRY

3/4" = 1'-0"

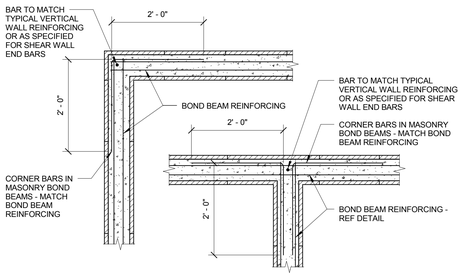


9 TYPICAL BEAM BEARING ON MASONRY

3/4" = 1'-0"

NOTES:

1. IN SHADED AREA, FILL ALL CORES IN WALL WITH GROUT MINIMUM AT CORNER CONDITION: 1'-4", EACH WAY.

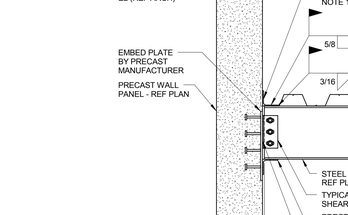


11 TYPICAL CMU WALL CORNER REINFORCING

3/4" = 1'-0"

NOTES:

1. TYPICAL VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY.

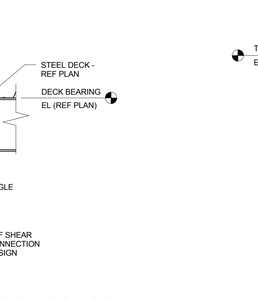


12 ROOF DECK SUPPORT AT MASONRY

3/4" = 1'-0"

NOTES:

1. AT SIM, NO MASONRY PARAPET.



13 MASONRY PARTITION WALL AT STEEL DECK

3/4" = 1'-0"

NOTES:

1. PROVIDE THE BENT PLATE CLIP ANGLES ON ALL INTERIOR NON-LOAD BEARING MASONRY PARTITION WALLS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY PARTITION WALLS.
2. BENT PLATE CLIPS MAY BE ELIMINATED IF ALL THE FOLLOWING CONDITIONS ARE MET.
   A. LENGTH OF WALL BETWEEN PERPENDICULAR INTERSECTING WALLS IS LESS THAN THE FOLLOWING:
      a. 15'-0" FOR 6" CMU
      b. 20'-0" FOR 8" CMU
      c. 22'-0" FOR 10" CMU
      d. 25'-0" FOR 12" CMU
   B. WALL AND INTERSECTION HAVE PROPERLY INSTALLED (9 GA) TRUSS TYPE HORIZONTAL JOINT REINFORCING @ 16" OC.

14 MASONRY PARTITION WALL AT STEEL BEAM

3/4" = 1'-0"

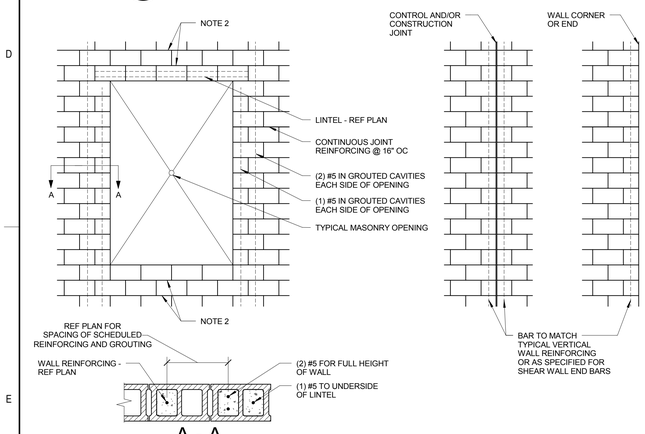
NOTES:

1. WALL STABILIZING CAP: PREFABRICATED 12 GAUGE CHANNEL.

   MANUFACTURERS AND PRODUCTS:

   HECKMAN BUILDING PRODUCTS - 420 CAP
   HOHMANN AND BARNARD INC - PTA422
   WIREBOND - 4310 PARTITION TOP ANCHOR

2. PROVIDE THE BENT PLATE CLIP ANGLES ON ALL INTERIOR NON-LOAD BEARING MASONRY PARTITION WALLS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY PARTITION WALLS.
3. BENT PLATE CLIPS MAY BE ELIMINATED IF ALL THE FOLLOWING CONDITIONS ARE MET.
   A. LENGTH OF WALL BETWEEN PERPENDICULAR INTERSECTING WALLS IS LESS THAN THE FOLLOWING:
      a. 15'-0" FOR 6" CMU
      b. 20'-0" FOR 8" CMU
      c. 22'-0" FOR 10" CMU
      d. 25'-0" FOR 12" CMU
   B. WALL AND INTERSECTION HAVE PROPERLY INSTALLED (9 GA) TRUSS TYPE HORIZONTAL JOINT REINFORCING @ 16" OC.

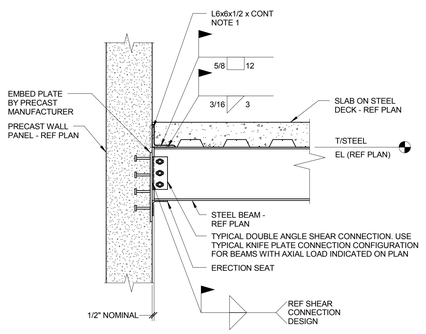


15 TYPICAL MASONRY WALL DETAIL

3/4" = 1'-0"

NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS FOR MASONRY CONTROL JOINT LOCATIONS.
2. TWO COURSES OF JOINT REINFORCING ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL AND SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE OPENING.



16 STEEL BEAM CONNECTION AT PRECAST WALL PANEL WITH EMBED PLATE

3/4" = 1'-0"

NOTES:

1. PROVIDE EMBED PLATE BY PRECAST MANUFACTURER IN WALL @ 4' - 0" OC MAXIMUM TO WELD TO CONTINUOUS ANGLE WITH 3/16" FILLET WELD 3" LONG. COORDINATE EMBED PLATES AROUND BEAM CONNECTIONS.

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PRECAST AND MASONRY DETAILS

SHEET NUMBER:
S4.00

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Illinois Design Firm Registration #184-000973

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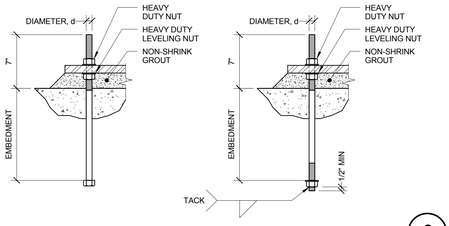
REFERENCE SCALE IN INCHES
0 1 2 3



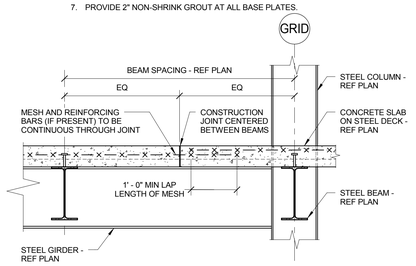
CONTRACTORS OPTION

1 TYPICAL ANCHOR ROD

1 1/2" = 1'-0"

NOTES:

1. REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
2. REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
3. ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
4. PROTECT ANCHOR RODS FROM DAMAGE.
5. ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
   - A. 1/8" CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
   - B. 1/4" CENTER TO CENTER OF ADJACENT ANCHOR ROD GROUPS.
   - C. ELEVATION OF THE TOP OF ANCHOR RODS ± 1/2".
   - D. MAXIMUM ACCUMULATION OF 1/4" PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
   - E. 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
   - F. REFERENCE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.
6. SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE, UNLESS NOTED OTHERWISE.
7. PROVIDE 2" NON-SHRINK GROUT AT ALL BASE PLATES.

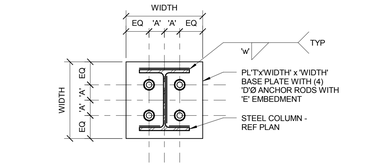


TYPICAL CONSTRUCTION JOINT PERPENDICULAR TO GIRDER DETAIL

6 — 3/4" = 1'-0"

NOTES:

1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



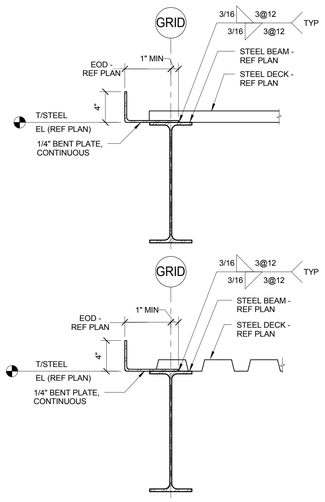
WIDE FLANGE BASE PLATE SCHEDULE								
MARK	COLUMN	WIDTH	'T'	'A'	'D'	'E'	'w'	COMMENTS
BP1	W10	0' - 11"	1"	2"	3/4"	9"	1/4"	-

2 WIDE FLANGE BASE PLATE DETAIL

1 1/2" = 1'-0"

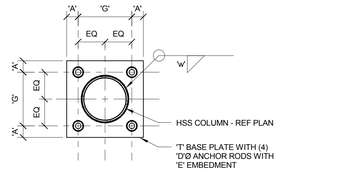
NOTES:

1. REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.
2. NO WELDS REQUIRED AT FLANGE TOES AND RADIUSES.



TYPICAL CLOSURE PLATE DETAIL

7 — 1 1/2" = 1'-0"



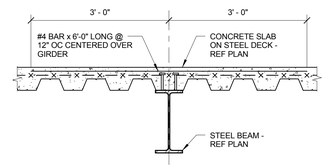
HSS BASE PLATE SCHEDULE								
MARK	COLUMN	'G'	'T'	'A'	'D'	'E'	'w'	COMMENTS
BP2	HSS12.75	16"	1"	1 1/2"	3/4"	12"	5/16"	-

3 PIPE COLUMN BASE PLATE DETAIL

1 1/2" = 1'-0"

NOTES:

1. REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.

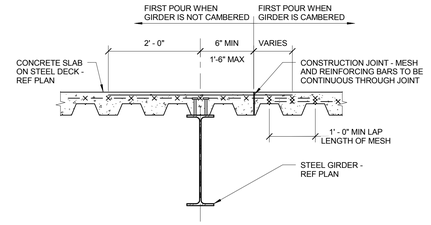


4 TYPICAL GIRDER DETAIL

3/4" = 1'-0"

NOTES:

1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.

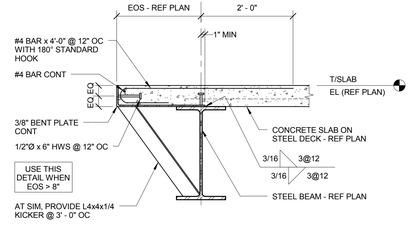


5 TYPICAL CONSTRUCTION JOINT PARALLEL TO GIRDER DETAIL

3/4" = 1'-0"

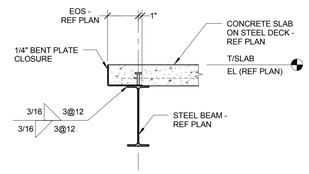
NOTES:

1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



8 SLAB EDGE DETAIL

3/4" = 1'-0"



9 TYPICAL SLAB EDGE DETAIL

3/4" = 1'-0"

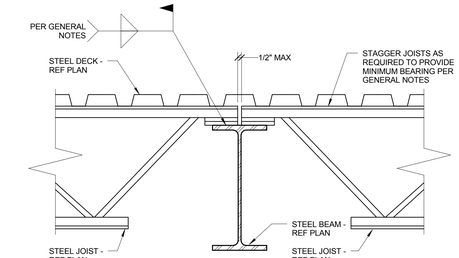
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE - SUMP PAN ONLY	NONE - SUMP PAN ONLY
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-
10'-1" TO 13'-0"	L6x3/8	-

10 DECK OPENING FRAMING DETAIL

3/4" = 1'-0"

NOTES:

1. USE ABOVE FRAMING AT ALL OPENINGS EXCEEDING 1'-0" UNO.
2. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
3. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

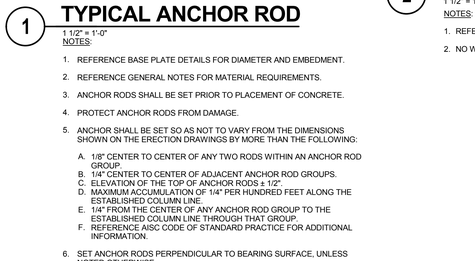


11 TYPICAL JOIST BEARING DETAIL

1 1/2" = 1'-0"

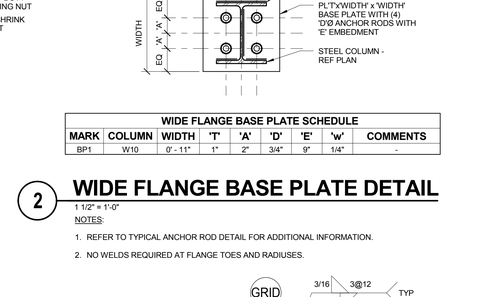
NOTES:

1. JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. REFER TO GENERAL NOTES FOR BOLT DIAMETER.



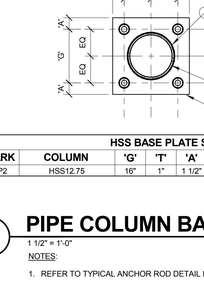
12 TYPICAL ROOF EDGE DETAIL

1 1/2" = 1'-0"



13 BEAM BOTTOM FLANGE BRACE

3/4" = 1'-0"

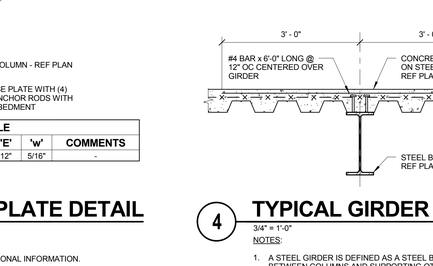


14 TYPICAL STEEL JOIST AT HSS COLUMN

3/4" = 1'-0"

NOTES:

1. GIRDER NOT SHOWN FOR CLARITY.
2. DECK NOT SHOWN FOR CLARITY.
3. CONNECTION SHOWN IS BASED ON STEEL JOIST INSTITUTE REQUIREMENTS FOR K-SERIES BAR JOISTS. CONNECTION DETAIL NOT APPLICABLE FOR LH-SERIES JOISTS OR JOIST GIRDERS.

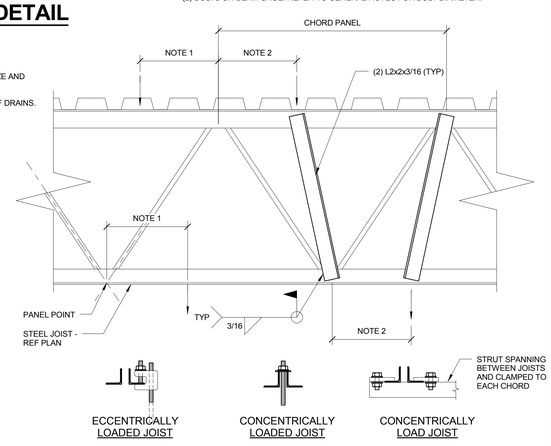


15 TYPICAL ROOF MOMENT CONNECTION

3/4" = 1'-0"

NOTES:

1. STIFFENER PLATE THICKNESS SHALL MATCH LARGER FLANGE THICKNESS UNO.

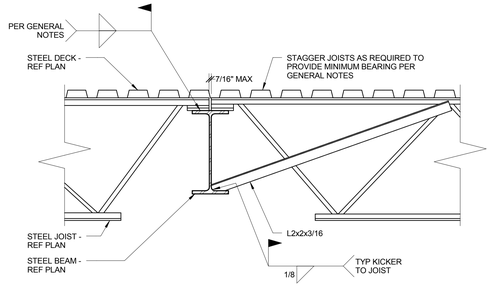


16 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"

NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAXIMUM OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOIST THAT ARE ECCENTRICALLY LOADED, A MAXIMUM OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAXIMUM LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

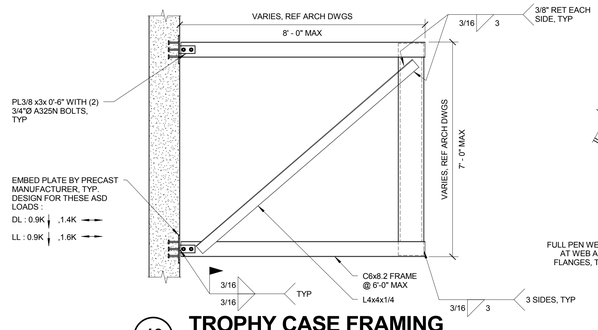


17 CONTINUOUS SPAN BRACING DETAIL

1" = 1'-0"

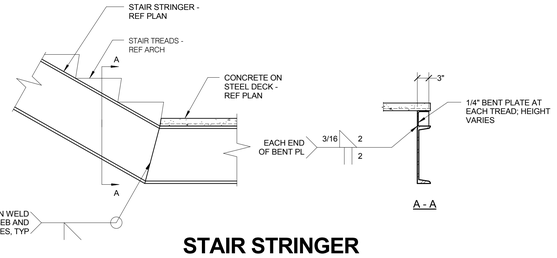
NOTES:

1. JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. REFER TO GENERAL NOTES FOR BOLT DIAMETER.



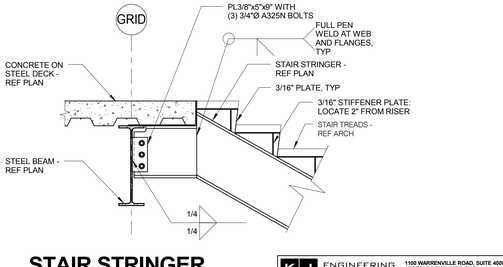
18 TROPHY CASE FRAMING

1/2" = 1'-0"



19 STAIR STRINGER CONNECTION DETAIL

3/4" = 1'-0"



20 STAIR STRINGER CONNECTION DETAIL

3/4" = 1'-0"

NOTES:

1. REF 8/S5.00 FOR EDGE OF SLAB INFORMATION.

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JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15

BID PACKAGE 2
ISSUED FOR BID

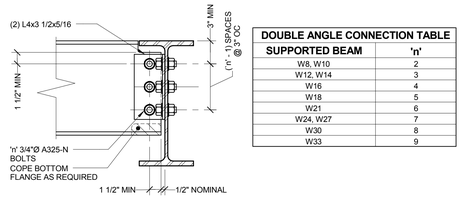
NO:	DESCRIPTION:	DATE:

SHEET TITLE:

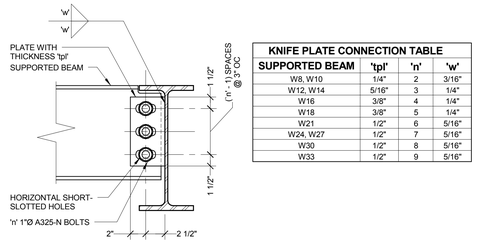
STEEL DETAILS

SHEET NUMBER:

S5.00



DOUBLE ANGLE CONNECTION TABLE	
SUPPORTED BEAM	'n'
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24, W27	7
W30	8
W33	9



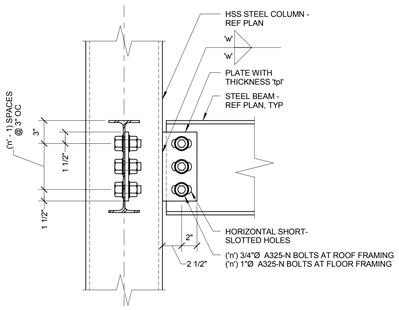
KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tpl'	'n'	'w'
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	3/8"	4	1/4"
W18	3/8"	5	1/4"
W21	1/2"	6	5/16"
W24, W27	1/2"	7	5/16"
W30	1/2"	8	5/16"
W33	1/2"	9	5/16"

1 TYPICAL SHEAR CONNECTION

1 1/2" = 1'-0"

NOTES:

1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
2. KNIFE PLATE CONNECTION CONFIGURATION WITH STANDARD HOLES IS REQUIRED AT EACH END OF BEAM WITH AXIAL LOAD INDICATED ON PLAN.
3. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
4. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
5. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
6. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.



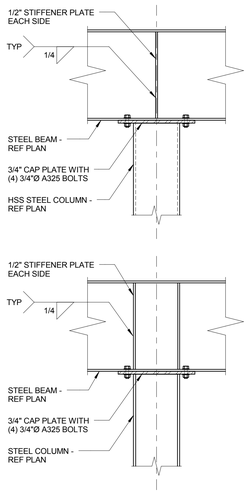
KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tpl'	'n'	'w'
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	3/8"	4	1/4"
W18	1/2"	5	5/16"
W21	1/2"	6	5/16"
W24	1/2"	7	5/16"

2 TYPICAL BEAM TO TUBE COLUMN SHEAR CONNECTION

1 1/2" = 1'-0"

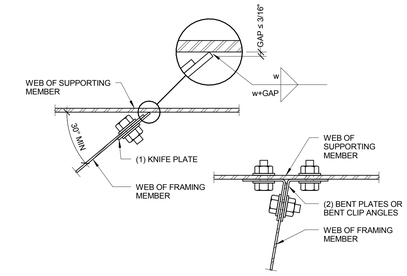
NOTES:

1. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.



6 BEAM BEARING ON COLUMN

3/4" = 1'-0"

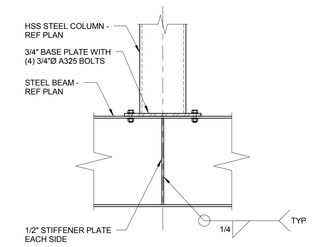


3 TYPICAL SKEWED CONNECTION

3" = 1'-0"

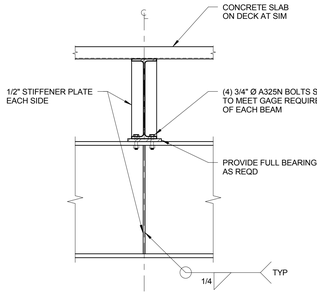
NOTES:

1. DETAILER MAY SELECT DOUBLE BENT ANGLES, DOUBLE BENT PLATES, OR SINGLE KNIFE PLATE AS BEST APPLIES TO CONNECTION.
2. 'w' IS WELD SIZE FROM TYPICAL SHEAR CONNECTION.



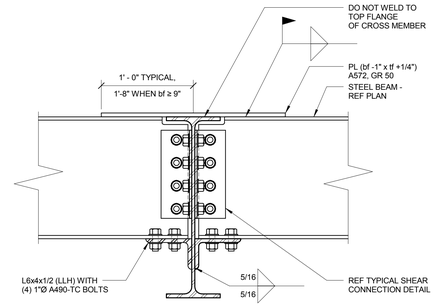
7 COLUMN BEARING ON BEAM

3/4" = 1'-0"



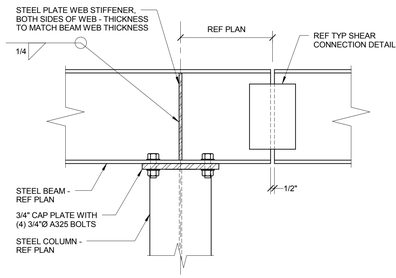
9 BEAM OVER BEAM CANTILEVER

3/4" = 1'-0"



4 BEAM THROUGH BEAM MOMENT CONNECTION DETAIL

1 1/2" = 1'-0"

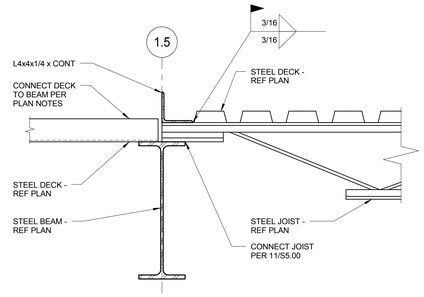


8 BEAM SPLICE OVER COLUMN

1 1/2" = 1'-0"

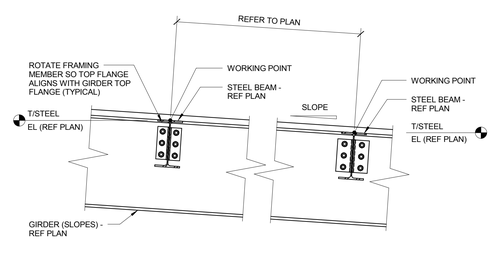
NOTES:

1. USE SMALLER OF TWO BEAMS FOR SHEAR CONNECTION DETAIL.
2. EITHER WELDED OR BOLTED CONNECTIONS MAY BE EMPLOYED.



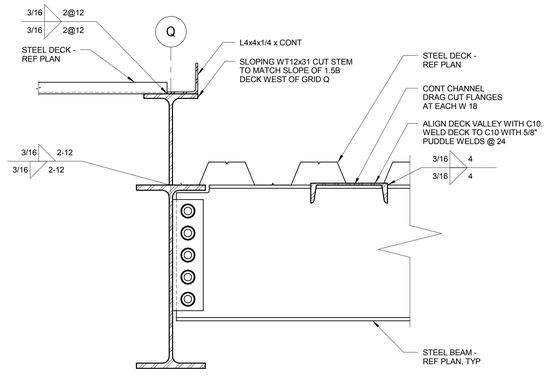
10 BEAM ON GRID 1.5

1 1/2" = 1'-0"



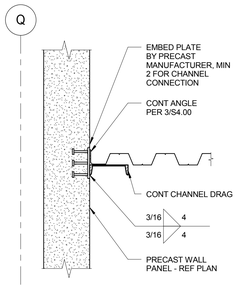
5 TYPICAL SLOPED FRAMING

3/4" = 1'-0"



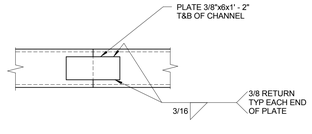
11 BEAM ON GRID Q

1 1/2" = 1'-0"



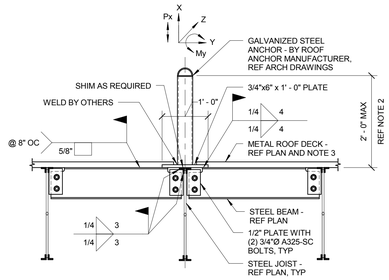
12 CHANNEL DRAG CONNCETION TO PRECAST WALL AT GRID Q

3/4" = 1'-0"



13 CHANNEL DRAG SPLICE

3/4" = 1'-0"

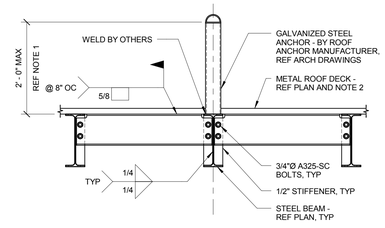


14 ROOF ANCHOR DETAIL AT JOISTS

3/4" = 1'-0"

NOTES:

1. DESIGN JOISTS FOR THE ADDITIONAL LIVE LOADS AT THE ROOF ANCHOR LOCATIONS. P = 5000 LBS. M = 10,000 LBS-FT. MOMENT IS ALONG STRONG AXIS OF JOIST.
2. IF HEIGHT OF TIE BACK EXCEEDS DIMENSION SHOWN, CONTACT STRUCTURAL ENGINEER AND JOIST MANUFACTURER.
3. DECK MANUFACTURER TO LAY OUT ROOF DECK SO BOTTOM OF FLUTE ALIGNS WITH W8 STEEL BEAM TO INSURE PUDDLE WELD CONNECTION BETWEEN BEAM AND DECK.



15 ROOF ANCHOR DETAIL AT BEAM

3/4" = 1'-0"

NOTES:

1. IF HEIGHT OF TIE BACK EXCEEDS DIMENSION SHOWN, CONTACT STRUCTURAL ENGINEER AND JOIST MANUFACTURER.
2. DECK MANUFACTURER TO LAY OUT ROOF DECK SO BOTTOM OF FLUTE ALIGNS WITH W8 STEEL BEAM TO INSURE PUDDLE WELD CONNECTION BETWEEN BEAM AND DECK.

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
STEEL DETAILS

SHEET NUMBER:
S5.01

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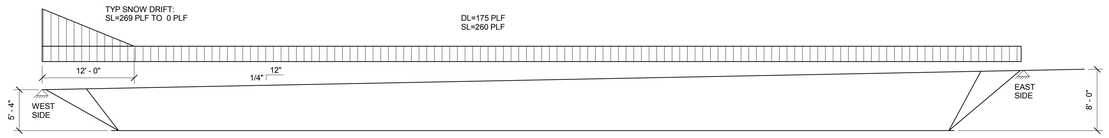
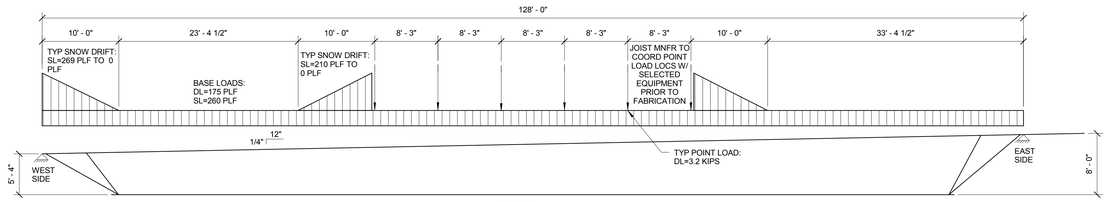
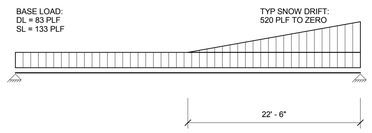


LHSP1



LHSP2



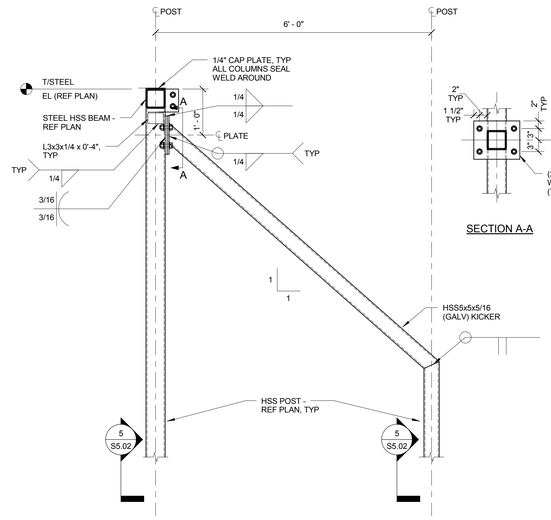
24KSP1

1 JOIST DIAGRAM

1/8" = 1'-0"

NOTES:

1. SNOW DRIFT LOADING IS IN ADDITION TO BASE SNOW LOADS.

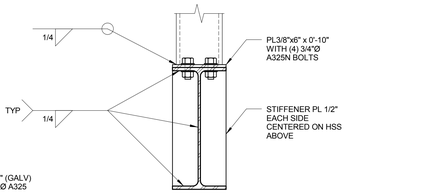


2 SCREENWALL CONNECTION DETAIL

3/4" = 1'-0"

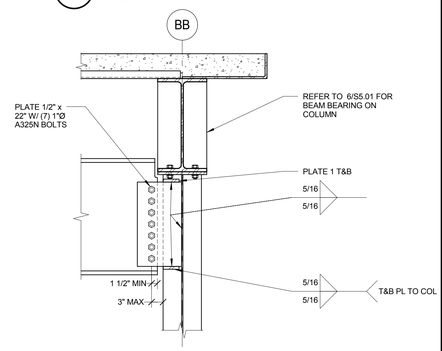
NOTES:

1. ALL WELDS TO BE CONTINUOUS AROUND MEMBER TO CREATE SEAL.
2. ALL SCREENWALL SUPPORT TO BE GALVANIZED.



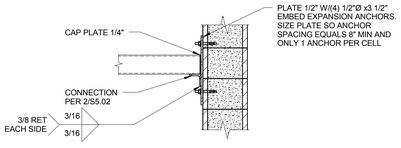
5 SCREEN WALL BASE CONNECTION

1 1/2" = 1'-0"



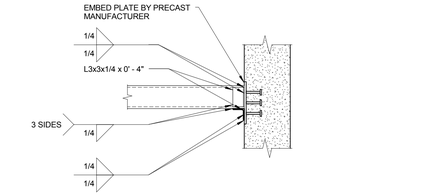
6 BEAM CONNECTION AT GRID BB

3/4" = 1'-0"



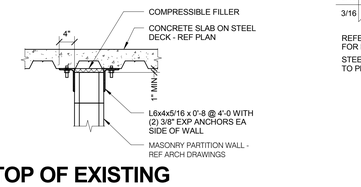
7 SCREEN WALL HSS CONNECTION TO WALL

3/4" = 1'-0"



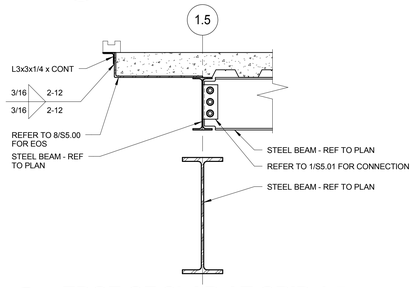
8 SCREENWALL HSS CONNECTION TO PRECAST WALL

3/4" = 1'-0"



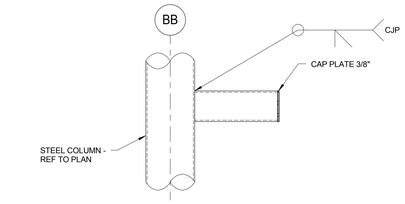
9 TOP OF EXISTING MASONRY WALL AT GRID 1.5

3/4" = 1'-0"



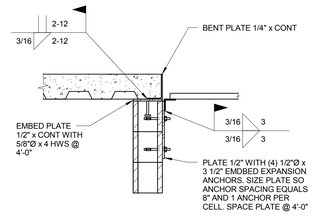
10 EDGE OF SLAB AT GRID 1.5

3/4" = 1'-0"



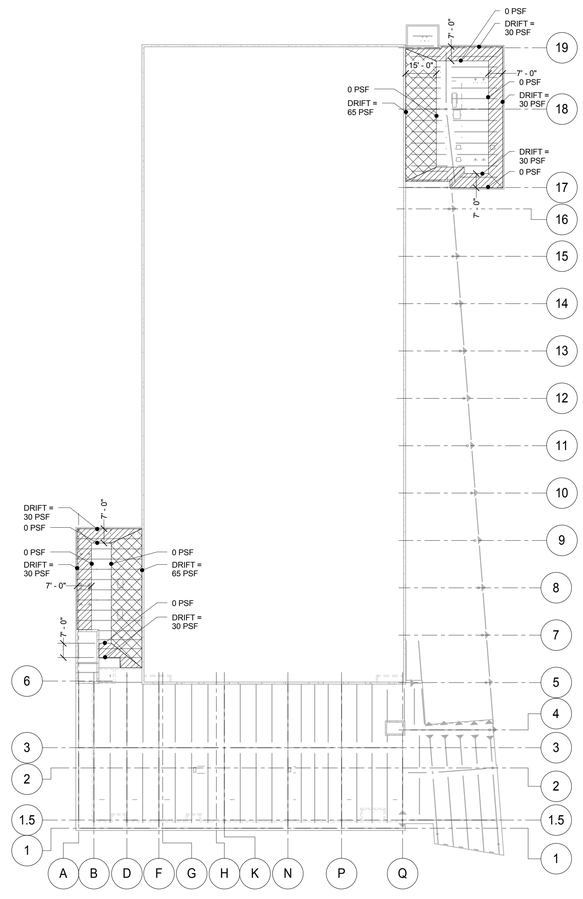
11 GIRT CONNECTION

3/4" = 1'-0"



12 TOP OF MASONRY WALL

3/4" = 1'-0"

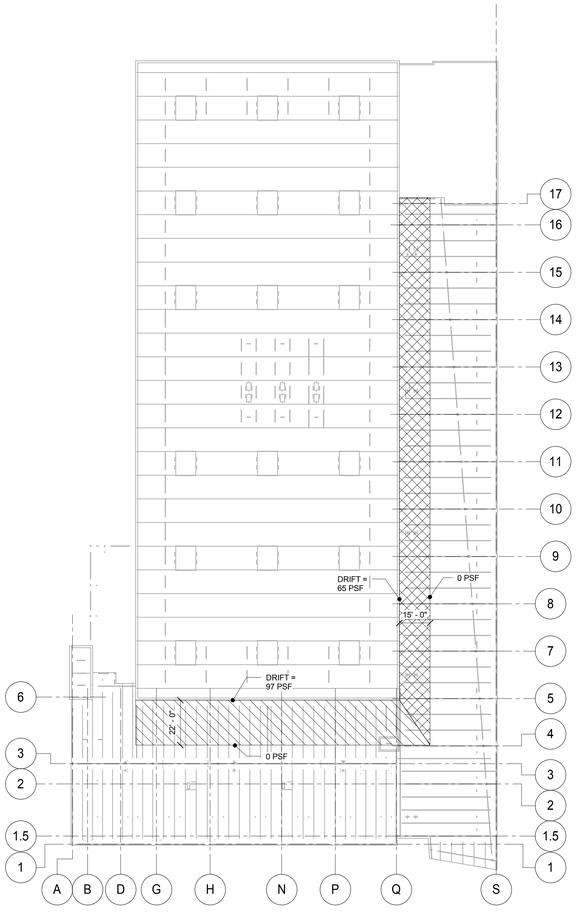


3 SECOND FLOOR DRIFT PLAN

1" = 30'-0"

NOTES:

1. ALL DRIFT LOADS ARE IN ADDITION TO DESIGN SNOW LOAD SHOWN IN GENERAL NOTES



4 ROOF DRIFT PLAN

1" = 30'-0"

NOTES:

1. ALL DRIFT LOADS ARE IN ADDITION TO DESIGN SNOW LOAD SHOWN IN GENERAL NOTES

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MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
JOIST DIAGRAMS

SHEET NUMBER:
S5.02

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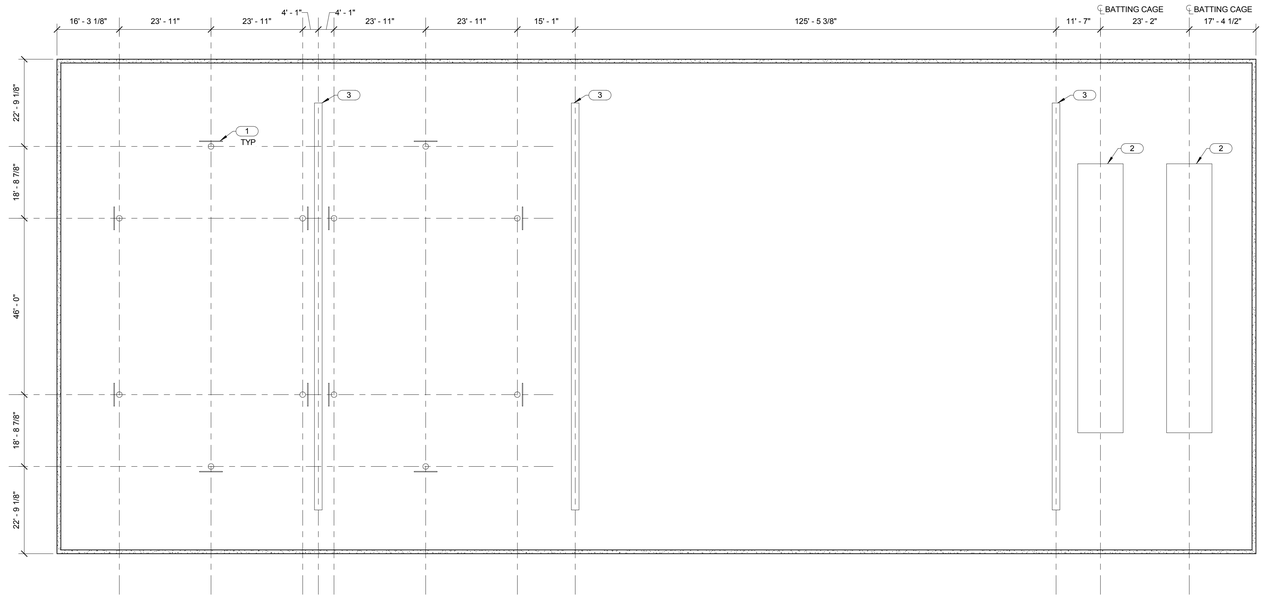

NORTH 1

FIELDHOUSE EQUIPMENT PLAN

1/16" = 1'-0"

NOTES:

1. ALL DIMENSIONS ON PLAN INDICATE THE ASSUMED LOCATIONS OF EQUIPMENT SUSPENDED FROM THE ROOF JOISTS. EQUIPMENT CONCTRACTOR SHALL MINIMIZE DEVIATIONS FROM THESE LOCATIONS. ANY CHANGE IN LOCATION SHALL BE SUBMITTED TO ENGINEER AND JOIST MANUFACTURER FOR APPROVAL PRIOR TO INSTALLATION.
2. PROVIDE JOIST MODIFICATION PER 6/S3.02 WHEREVER EQUIPMENT SUPPORTS DO NOT OCCUR AT JOIST PANEL POINTS.
3. JOIST MANUFACUTRER AND EQUIPMENT CONTRACTOR ARE TO COORDINATE LOCATION AND LOAD OF HANGING EQUIPMENT.
4. ALL FIELDHOUSE EQUIPMENT IS ASSUMED TO BE SUPPORTED FROM BOTTOM CHORD OF JOIST.

KEYNOTES:

(1) FOLD-UP BASKETBALL BACKSTOP (12 TOTAL). APPROXIMATE WEIGHT OF EACH HOOP IS 800 LBS.

(2) RETRACTABLE BATTING CAGE (2 TOTAL). EXTRA JOIST BRIDGING MAY BE REQUIRED AT SUPPORT AND HOIST LOCATIONS. APPROXIMATE WEIGHT OF EACH BATTING CAGE IS 1000 LBS.

(3) RETRACTABLE DIVIDER (3 TOTAL). EXTRA JOIST BRIDGING MAY BE REQUIRED AT SUPPORT AND HOIST LOCATIONS. APPROXIMATE WEIGHT OF EACH HOOP IS 150 PLF.

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7-17-15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FIELDHOUSE EQUIPMENT PLAN

SHEET NUMBER:
S5.03

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CONTROL SYMBOLS LIST

SYMBOL: DESCRIPTION:

- FAN
- R — CONTACTOR
- PUMP
- SP — STATIC SWITCH
- T — AVERAGING TEMPERATURE SENSOR
- T — PROBE TEMPERATURE SENSOR
- H — HUMIDITY SENSOR
- FM — DUCT FLOW METER
- DSD — DUCT SMOKE DETECTOR
- FS — AIR FLOW SWITCH
- C — CARBON MONOXIDE SENSOR
- C2 — CARBON DIOXIDE SENSOR
- H — HUMIDITY SENSOR
- T — TEMPERATURE SENSOR
- ACT — ACTUATOR
- DP — DIFFERENTIAL PRESSURE SWITCH
- CS — CURRENT SWITCH
- WM — WATER METER
- AI — ANALOG INPUT
- DI — DIGITAL INPUT
- AO — ANALOG OUTPUT
- DO — DIGITAL OUTPUT
- HEATING COIL
- FILTER
- OPPOSED BLADE DAMPER
- TERMINAL AIR BOX
- TERMINAL AIR BOX w/REHEAT
- NORMALL CLOSED CONTACT
- NORMALLY OPEN CONTACT
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- CONTROL VALVE (TWO-WAY)
- N.C. — NORMALLY CLOSED
- N.O. — NORMALLY OPEN
- O.A. — OUTSIDE AIR
- LC — LIGHTING CONTACTORS/RELAYS
- TCC — TEMPERATURE CONTROL CONTRACTOR

FIRE PROTECTION GENERAL NOTES

1. DRAWINGS SHOWING LOCATIONS OF PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
4. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
7. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, AND FLOORS. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
8. WHERE PIPES ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH SECTION 23 05 29. SEAL SLEEVE PERIMETER TO BE WATER-TIGHT.
9. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
10. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTER, SWITCHES, AND DISCONNECTS.
11. WITHIN MECHANICAL ROOMS MAINTAIN MAXIMUM VERTICAL CLEARANCES IN AISLES AND WALKWAYS TO OVERHEAD EQUIPMENT, PIPING, DUCTWORK, HANGERS, HANGER RODS, AND CONDUIT. COORDINATE WORK WITH OTHER TRADES TO MAXIMIZE VERTICAL CLEARANCES THROUGHOUT.
12. DO NOT SUPPORT PIPING FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
13. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. CONTRACTOR SHALL DETERMINE EXACT NUMBER OF HEADS, PIPE SIZING, AND PIPE ROUTING.
14. CENTER SPRINKLER HEADS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE.
15. REFER TO SHEET FP4.00 FOR FIRE PROTECTION MATERIAL LIST AND SPRINKLER SCHEDULE.
16. NEW SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE HEADS WITH QUICK RESPONSE HEADS IN UNPARTITIONED SPACES.

TAB POST-CONSTRUCTION NOTES

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING AND BALANCING CONTRACTOR (TAB) SHALL BALANCE ROOFTOP UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. AIRFLOW QUANTITIES TAKEN AT TRAVERSE LOCATIONS AND/OR GRILLES AND DIFFUSERS AS INDICATED ON THE DRAWINGS.
3. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST- CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
4. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:
   a. RTU INLET AND DISCHARGE STATIC PRESSURES, PRESSURE DROP ACROSS EACH RTU COMPONENT.
   b. HEATING AND COOLING COIL ENTERING AND LEAVING AIR DB/WB TEMPERATURES,
   c. OUTSIDE AIR CFM.
   d. SUPPLY, RETURN AND EXHAUST FANS: TOTAL CFM, TOTAL STATIC PRESSURE, FAN RPM, MOTOR NAMEPLATE DATA, VOLTS AND AMPS EACH PHASE. MAKE A NOTE OF THE VFD OUTPUT AT THE TIME THE VOLT AND AMP READINGS ARE TAKEN.

FIRE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVIENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 AND 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS.

1 HOUR FIRE BARRIER	— — — — — — — — —
2 HOUR FIRE BARRIER	— — - — — - — — -

MECHANICAL SYMBOLS LIST

SYMBOL: DESCRIPTION:

- NEW
- NEW DUCT
- FLEXIBLE DUCT
- MANUAL VOLUME DAMPER
- R — RISE IN DIRECTION OF AIR FLOW
- D — DROP IN DIRECTION OF AIR FLOW
- DUCT CAP
- DUCT DOWN
- DUCT UP
- SUPPLY/OUTSIDE AIR DUCT SECTION
- RETURN AIR DUCT SECTION
- EXHAUST/RELIEF AIR DUCT SECTION
- SD-1 / 6/115 — AIR TERMINAL PROPERTIES SYMBOL / NECK SIZE/CFM
- ### — TERMINAL AIR BOX (REFER TO SCHEDULE)
- ### — TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
- DIFFERENTIAL PRESSURE SENSOR
- T — THERMOSTAT/SENSOR
- D — DRAIN LINE
- G — NATURAL GAS
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- AFF — ABOVE FINISHED FLOOR
- AFMS — AIR FLOW MEASURING STATION
- A.T.C. — AUTOMATIC TEMPERATURE CONTROL CONTRACTOR
- E.C. — ELECTRICAL CONTRACTOR
- FSD — FIRE/SMOKE DAMPER
- G.C. — GENERAL CONTRACTOR
- M.C. — MECHANICAL CONTRACTOR
- N.C. — NORMALLY CLOSED
- N.O. — NORMALLY OPEN
- TD — TRANSFER DUCT

MECHANICAL SYMBOLS LIST

SYMBOL: DESCRIPTION:

- PIPE DOWN
- PIPE UP OR UP/DOWN
- PITCH PIPE IN DIRECTION
- DIRECTION OF FLOW IN PIPE
- UNION/FLANGE
- SHUTOFF VALVE NORMALLY OPEN
- SHUTOFF VALVE NORMALLY CLOSED
- 0.5 — BALANCING VALVE (NO. INDICATES GPM)
- M — METER
- CONTROL VALVE (THREE-WAY)
- CONTROL VALVE (TWO-WAY)
- CHECK VALVE
- SAFETY/RELIEF VALVE
- PRESSURE REDUCING VALVE (LIQUID/GAS)
- TRIPLE DUTY VALVE (IN-LINE TYPE)
- VACUUM BREAKER
- "WYE" - STRAINER
- "WYE" - STRAINER w/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
- BASKET STRAINER
- FLEXIBLE CONNECTION
- PRESSURE/TEMPERATURE TEST PLUG
- REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
- P — PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
- SUCTION DIFFUSER WITH SUPPORT FOOT
- AUTOMATIC AIR VENT
- MANUAL AIR VENT w/ BALL VALVE
- DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
- T — TEMPERATURE SENSOR WITH WELL
- THERMOMETER WITH WELL (FILLED TYPE)
- FM — FLOW METER

MECHANICAL SHEET INDEX

M0.00	MECHANICAL COVER SHEET
M1.11	LEVEL 1 PLAN - AREA 1 - VENTILATION
M1.12	LEVEL 1 PLAN - AREA 2 - VENTILATION
M1.13	LEVEL 1 PLAN - AREA 3 - VENTILATION
M1.21	LEVEL 2 PLAN - AREA 1 - VENTILATION
M1.22	LEVEL 2 PLAN - AREA 2 - VENTILATION
M1.23	LEVEL 2 PLAN - AREA 3 - VENTILATION
M1.31	ROOF PLAN - AREA 1 - VENTILATION
M1.32	ROOF PLAN - AREA 2 - VENTILATION
M1.33	ROOF PLAN - AREA 3 - VENTILATION
M1.40	ALTERNATE PLANS - VENTILATION
M2.00	UNDER FLOOR PLAN - AREAS 1, 2, & 3 - PIPING
M2.11	LEVEL 1 PLAN - AREA 1 - PIPING
M2.12	LEVEL 1 PLAN - AREA 2 - PIPING
M2.13	LEVEL 1 PLAN - AREA 3 - PIPING
M2.21	LEVEL 2 PLAN - AREA 1 - PIPING
M2.22	LEVEL 2 PLAN - AREA 2 - PIPING
M2.23	LEVEL 2 PLAN - AREA 3 - PIPING
M2.31	ROOF PLAN - AREA 1 - PIPING
M2.32	ROOF PLAN - AREA 2 - PIPING
M2.33	ROOF PLAN - AREA 3 - PIPING
M2.40	ALTERNATE PLANS - PIPING
M3.00	ENLARGED PLANS - MECHANICAL
M3.01	RTU DETAILS
M3.02	RTU DETAILS
M4.00	MECHANICAL DETAILS
M4.01	MECHANICAL DETAILS
M4.02	MECHANICAL DETAILS
M4.03	MECHANICAL DETAILS
M5.00	MECHANICAL SCHEDULES
M5.01	MECHANICAL SCHEDULES
M6.00	HEATING WATER FLOW DIAGRAM
M7.00	CONTROL DIAGRAMS
M7.01	CONTROL DIAGRAMS
M7.02	CONTROL DIAGRAMS
M7.03	CONTROL DIAGRAMS

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MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

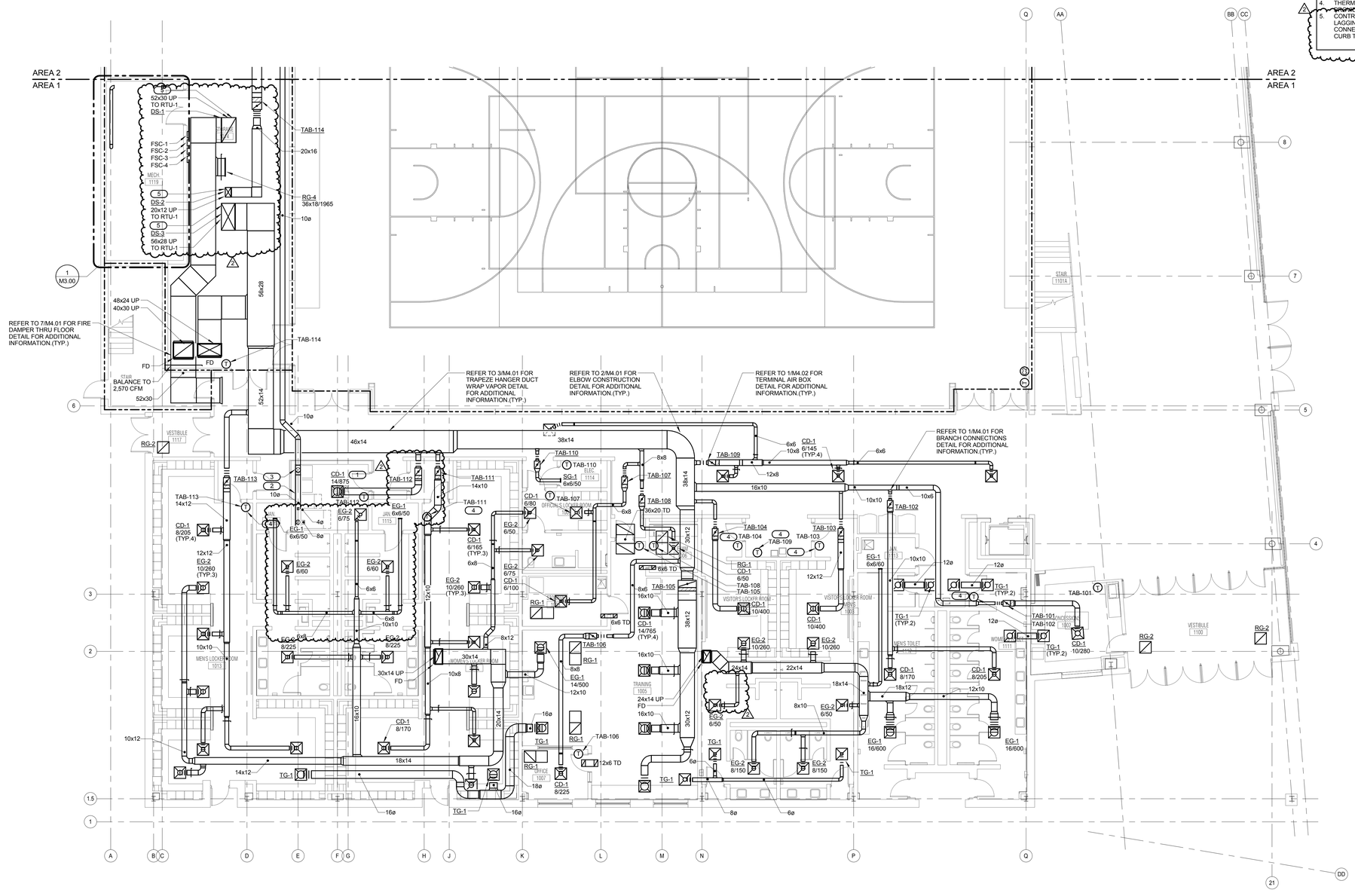
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
MECHANICAL COVER SHEET

SHEET NUMBER:
M0.00

KEYNOTES: (#)

1. CONTRACTOR SHALL PROVIDE VARIABLE SPEED DRYER DRAFT CONTROL SYSTEM TO MAINTAIN COMMON PRESSURE SETPOINT. FAN AND CONTROLS TO BE UL LISTED AND BE RATED FOR TYPE I AND TYPE II LINT LADEN AIR STREAMS. FAN AND CONTROLS FROM A SINGLE MANUFACTURER. SYSTEM TO BE MANUFACTURED BY ENERVEX INC. SYSTEM TO BE MODULATING DRYER VENT SYSTEM (MDVS-250).
   INCLUDES:
   - FAN: EF-4(LOCATED IN STORAGE 1014)
   - CONTROLS: MODEL MEC-18 DRYER VENT CONTROLLER WITH LED DISPLAY, XTP PRESSURE SENSOR, AND MODULATING SINGLE PH (120V) POWER OUTPUT TO VARY THE FAN SPEED. INCLUDES ALARM CONTACT, STARTUP AND PROGRAMMING BY LOCAL FACTORY REP. CONTACT JEFF DAHNKE (630-350-1770) WITH ANY INQUIRIES.
2. CONTRACTOR SHALL INSTALL COMMON VENT 4' ABOVE FINISHED FLOOR.
3. CONTRACTOR SHALL INSTALL LINT FILTERBY CLEAN CYCLE SYSTEM LINT LASSO MODEL LLA-8 (8" INLET / 10" OUTLET) TO BE MOUNTED ON VENT RISER. FILTER TO BE PROVIDED WITH 120V DIRTY FILTER ALERT SWITCH / LIGHT AND TO BE INSTALLED AS PART OF THE ENERVEX DRYER VENTING SYSTEM.
4. THERMOSTATS IN PUBLIC SPACES SHALL BE LOCATED ON INTERIOR PARTITIONS.
5. CONTRACTOR SHALL ADD ACOUSTICAL LAGGING TO THE DUCTWORK FROM THE CONNECTION TO THE ROOFTOP UNIT PLENUM CURB TO THE END OF THE DUCT SILENCER.



1 LEVEL 1 PLAN - AREA 1 - VENTILATION

1/8" = 1'-0"

NORTH

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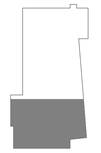
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - VENTILATION

SHEET NUMBER:
M1.11

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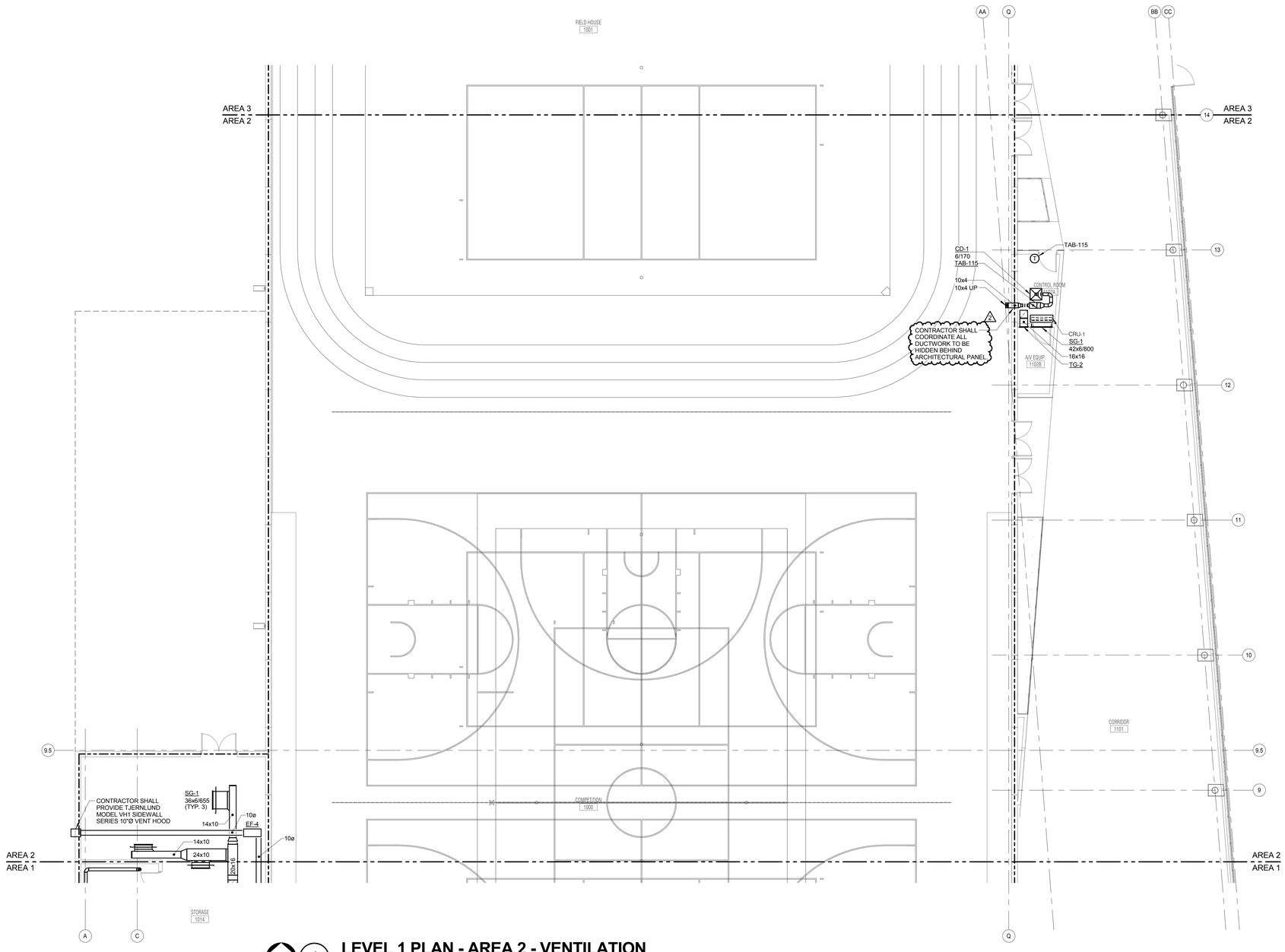

1 LEVEL 1 PLAN - AREA 2 - VENTILATION

1/8" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 2 - VENTILATION

SHEET NUMBER:
M1.12

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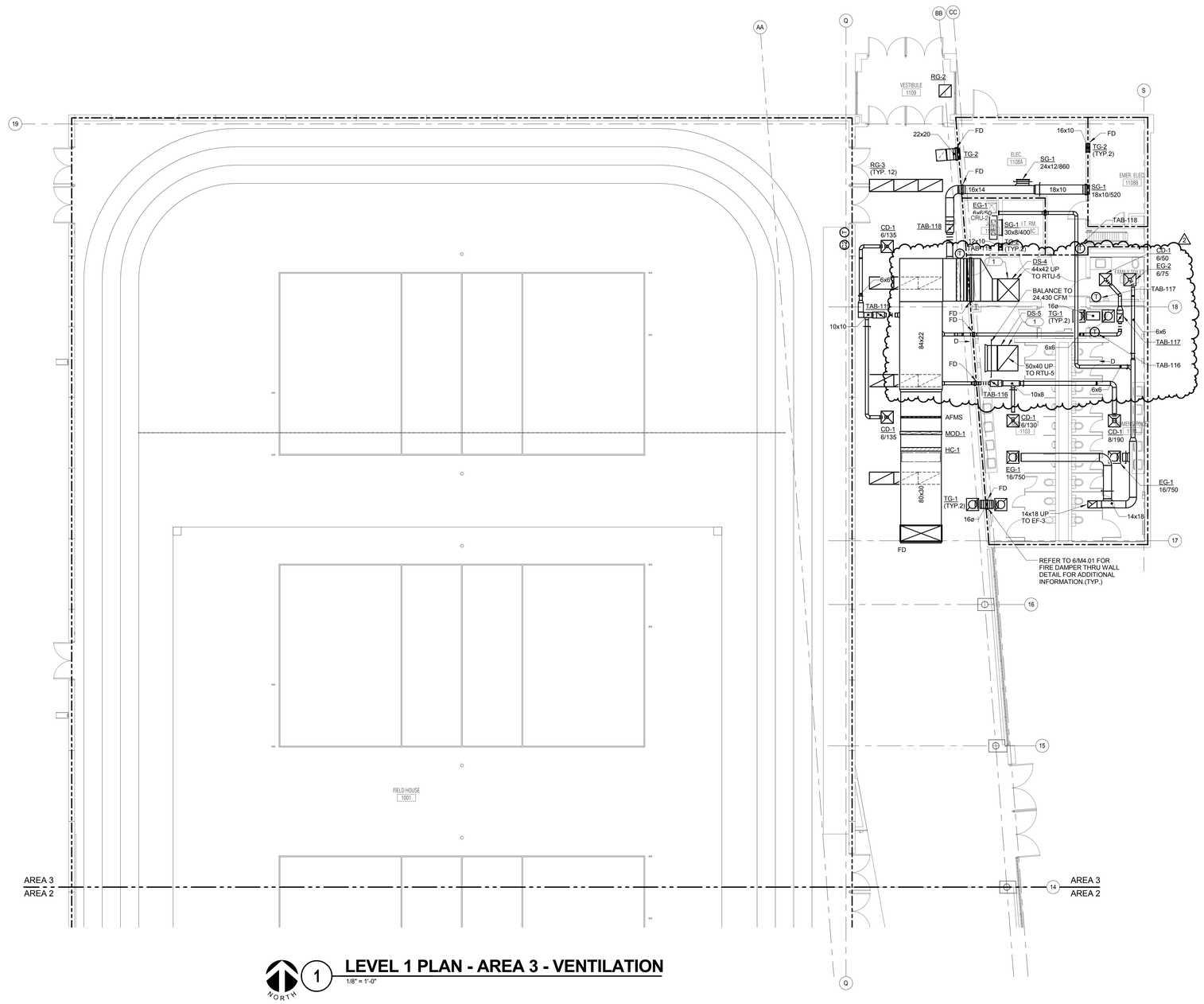

1 LEVEL 1 PLAN - AREA 3 - VENTILATION

1/8" = 1'-0"

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CHICAGO, IL 60661
P: 312.496.0000

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NAPERVILLE, IL 60563
P: 630.527.2320

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2174 ONEDA ST.
JOLIET, IL 60435
P: 815.744.6600

JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - VENTILATION

SHEET NUMBER:
M1.13

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www.kjww.com
PROJECT #. 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
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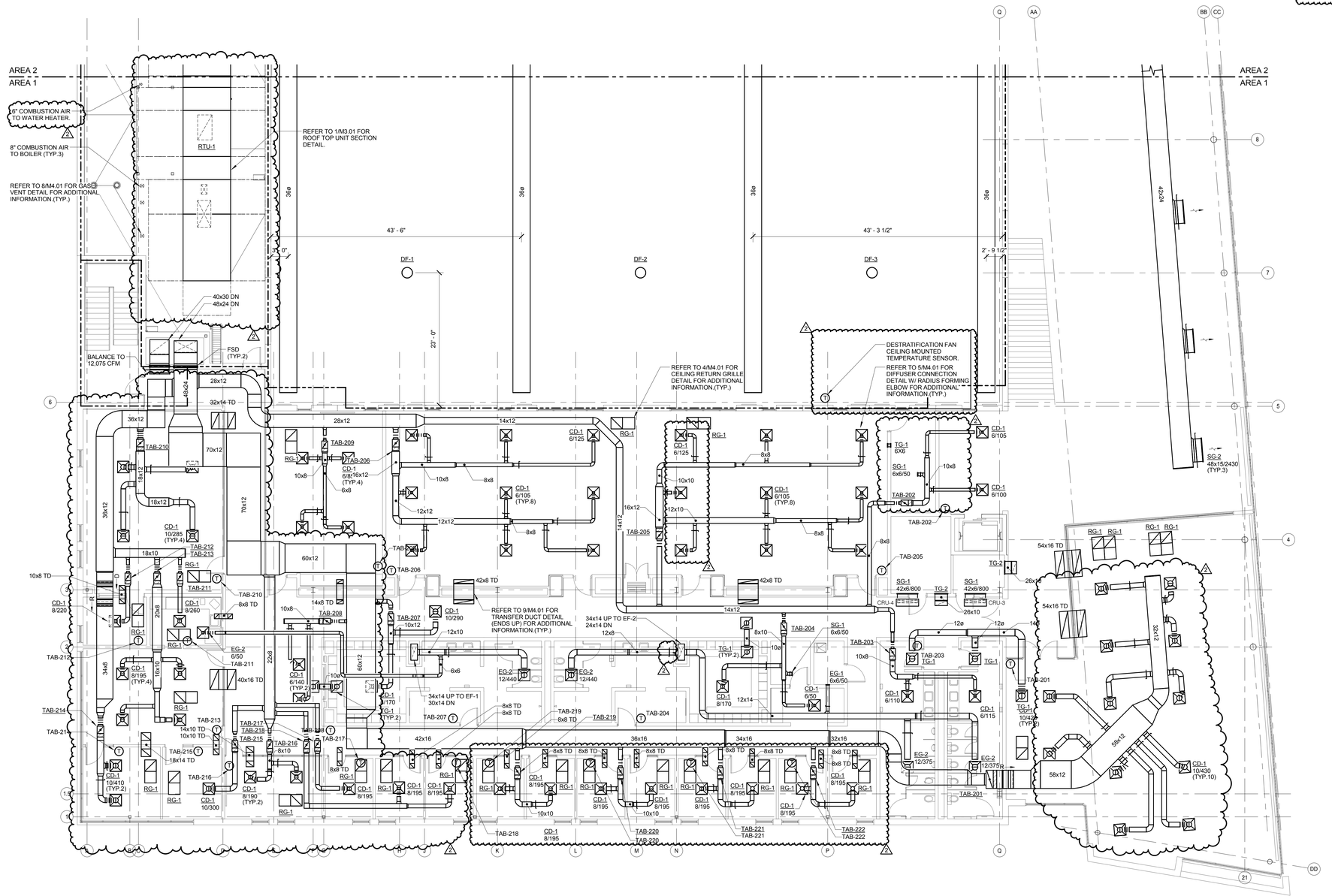
GENERAL SHEET NOTES

1. FABRIC DUCT RUNS LOCATED IN FIELDHOUSE SHALL BE INSTALLED BETWEEN STRUCTURAL JOIST WEB SPACE. REFER TO SHEET M4.03 FOR FABRIC DUCT REQUIREMENTS.
2. DESTRATIFICATION FANS SHALL BE CENTERED BETWEEN FABRIC DUCT RUNS.
3. REFER TO SHEET M4.03 FOR FIELDHOUSE AREA FABRIC DUCT SECTIONS DETAILS.
4. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.



LEVEL 2 PLAN - AREA 1 - VENTILATION

1/8" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - VENTILATION

SHEET NUMBER:
M1.21

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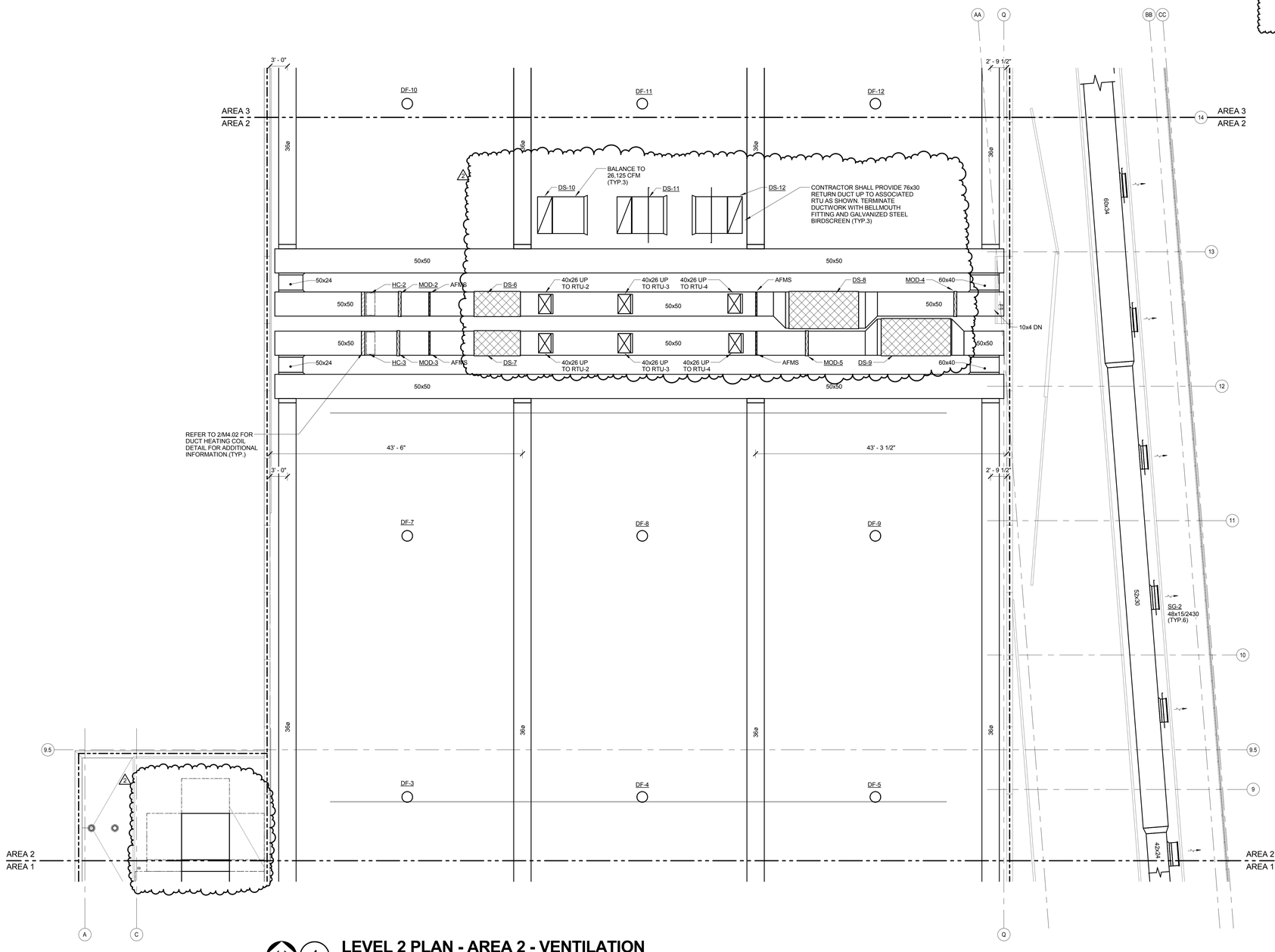
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES

1. FABRIC DUCT RUNS LOCATED IN FIELDHOUSE SHALL BE INSTALLED BETWEEN STRUCTURAL JOIST WEB SPACE. REFER TO SHEET M4.03 FOR FABRIC DUCT REQUIREMENTS.
2. DESTRATIFICATION FANS SHALL BE CENTERED BETWEEN FABRIC DUCT RUNS.
3. REFER TO SHEET M4.03 FOR FIELDHOUSE AREA FABRIC DUCT SECTIONS DETAILS.
4. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.



1 LEVEL 2 PLAN - AREA 2 - VENTILATION

1/8" = 1'-0"

NORTH

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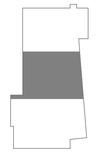
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 2 - VENTILATION

SHEET NUMBER:
M1.22

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REFERENCE SCALE IN INCHES
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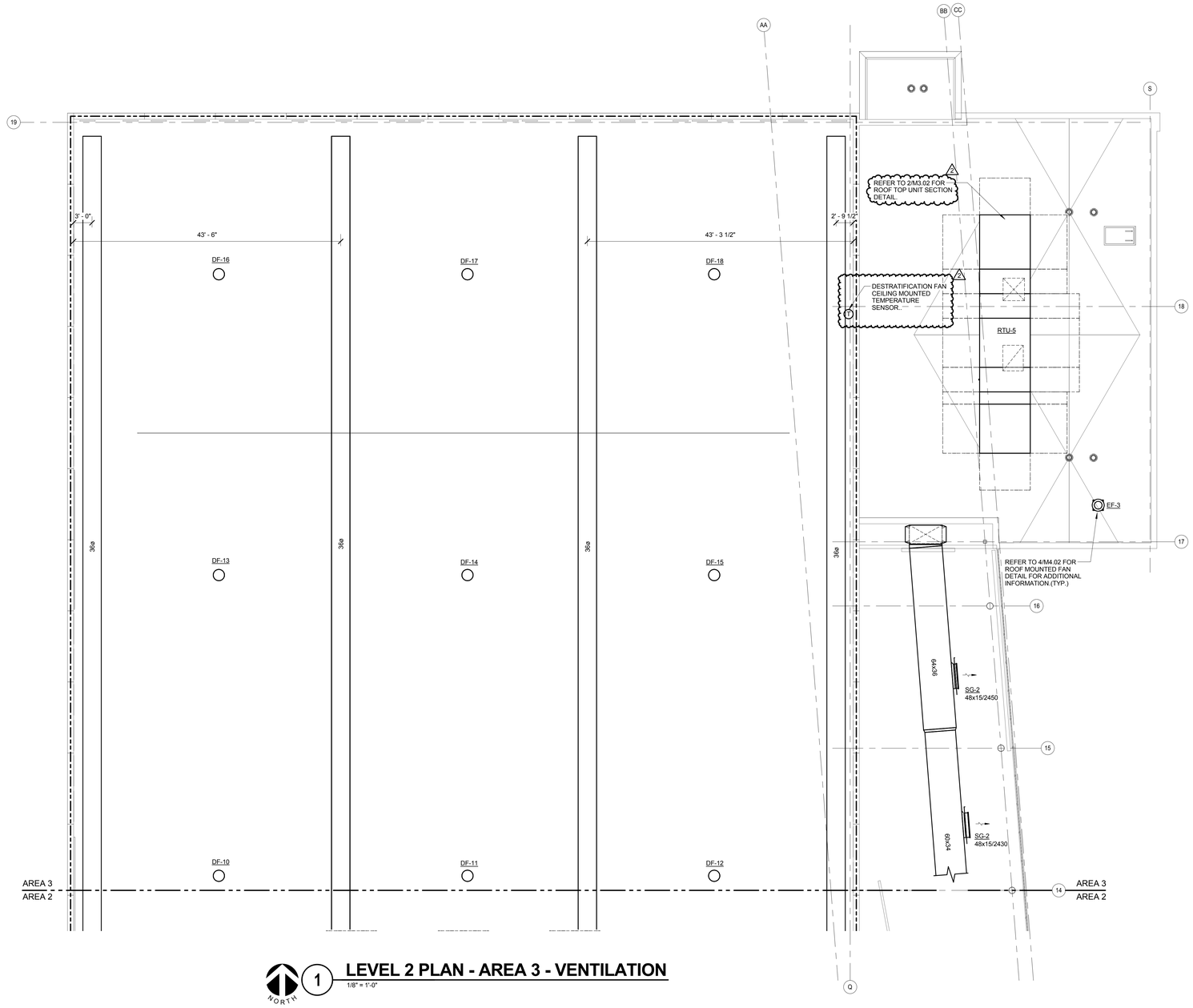

1 LEVEL 2 PLAN - AREA 3 - VENTILATION
1/8" = 1'-0"

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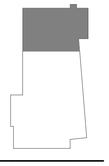
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 3 - VENTILATION

SHEET NUMBER:
M1.23

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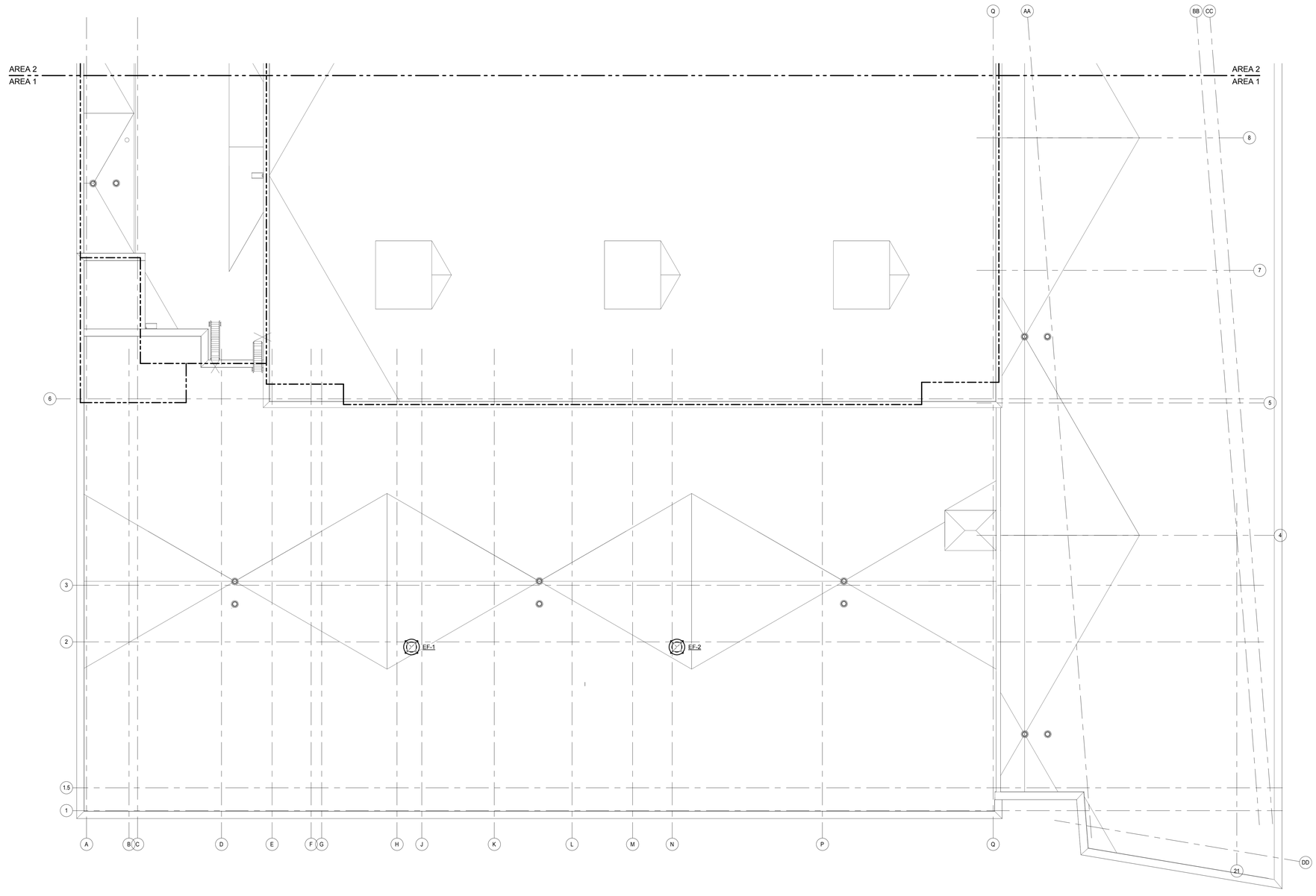

NORTH

1 ROOF PLAN - AREA 1 - VENTILATION

1/8" = 1'-0"

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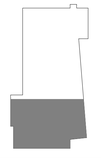
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 1 - VENTILATION

SHEET NUMBER:
M1.31

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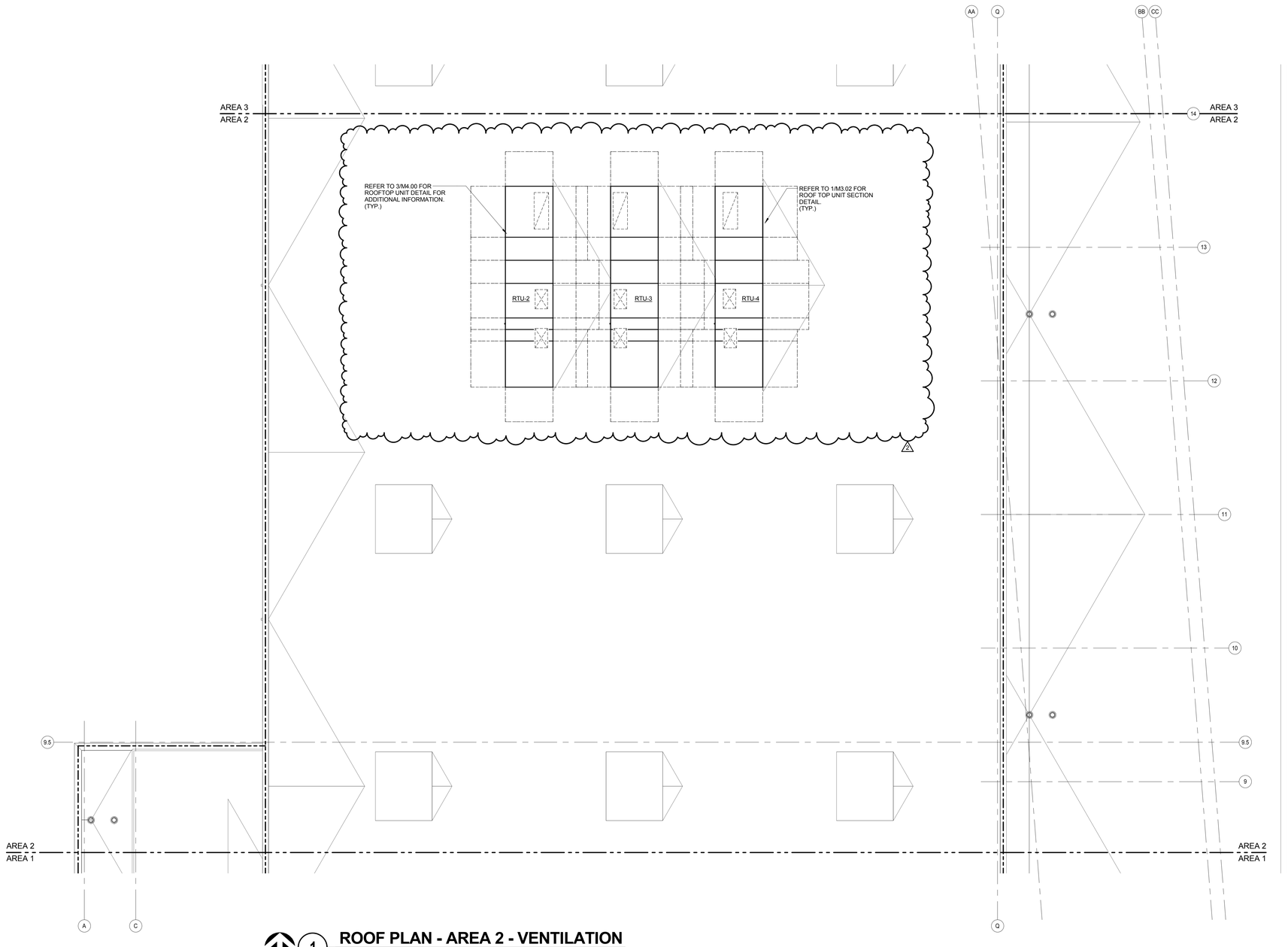

NORTH

1 **ROOF PLAN - AREA 2 - VENTILATION**

1/8" = 1'-0"

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P: 312.496.0000

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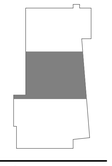
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

ROOF PLAN - AREA 2 - VENTILATION

SHEET NUMBER:

M1.32

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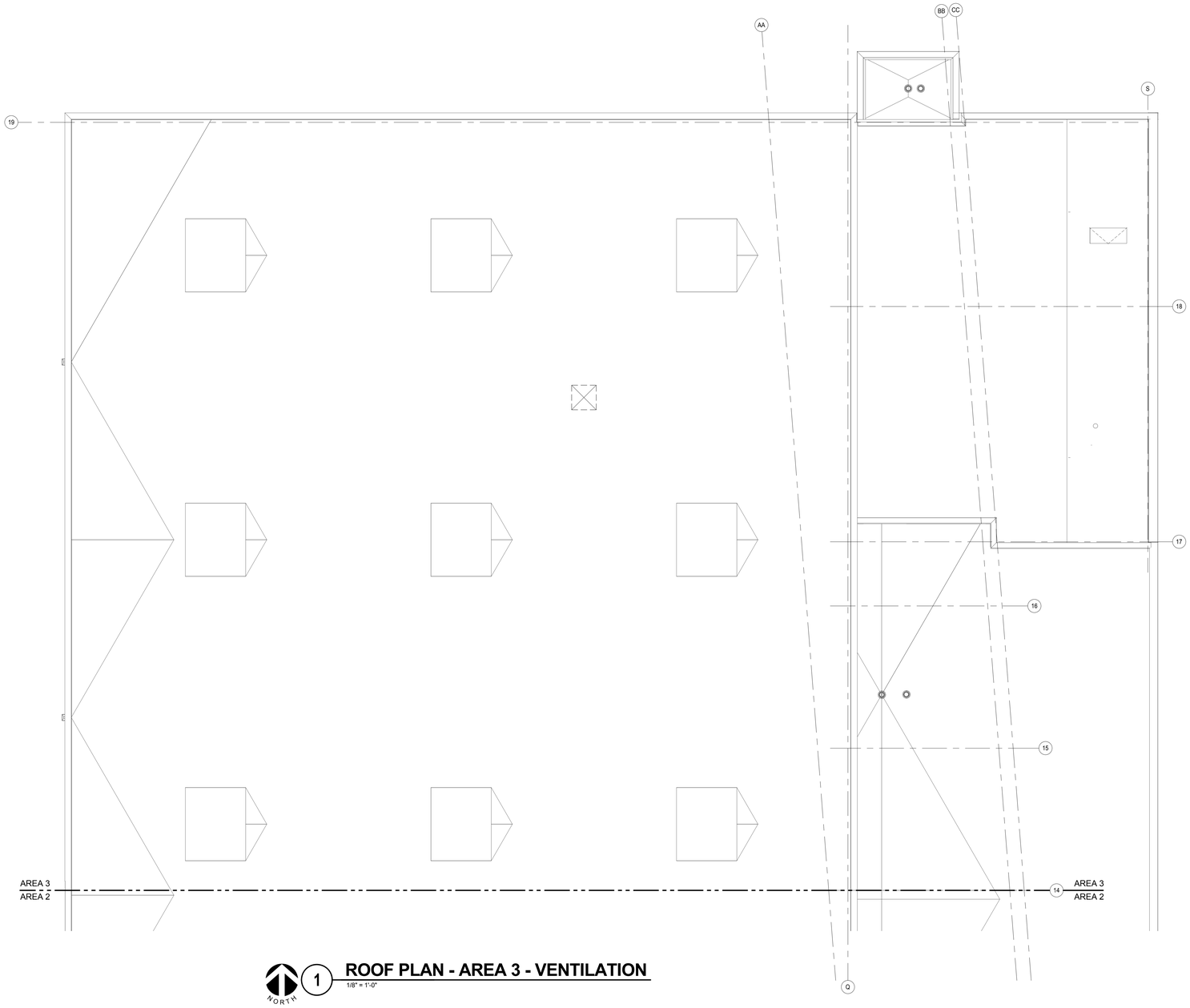

NORTH 1 **ROOF PLAN - AREA 3 - VENTILATION**

1/8" = 1'-0"

ARCHITECT OF RECORD
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125 N. HALSTED STREET, SUITE 301
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P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 3 - VENTILATION

SHEET NUMBER:
M1.33

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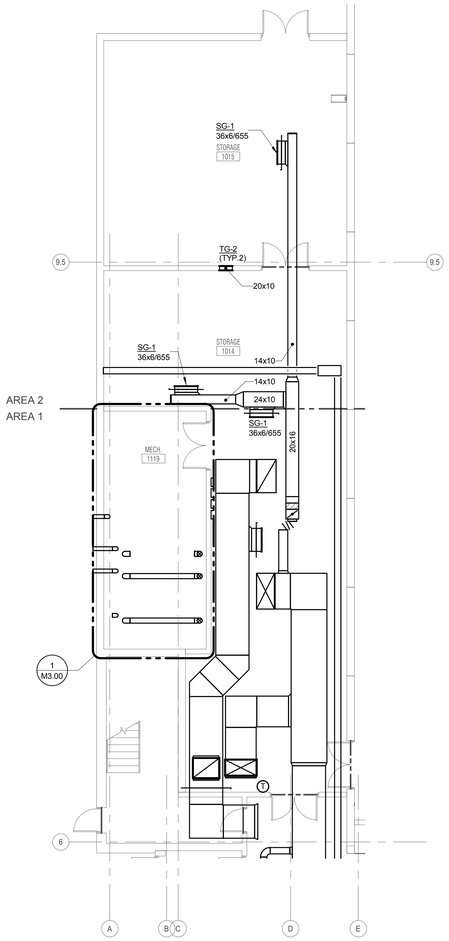
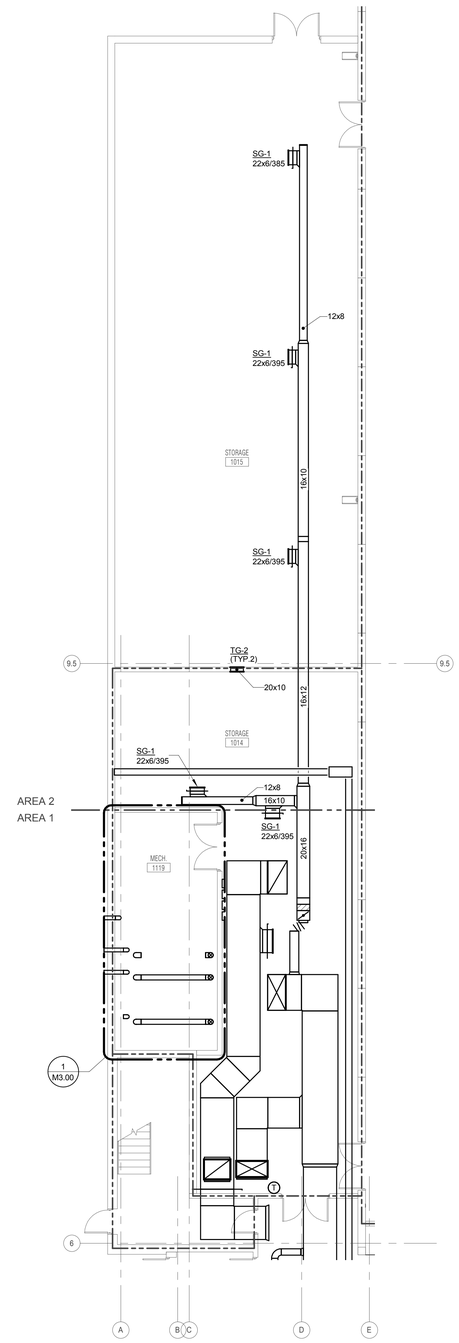
GENERAL SHEET NOTES

1. THE PLANS ON THIS SHEET ARE PART OF ALTERNATES 1, 2, AND 3. CONTRACTOR SHALL SEE SHEET M1.11 & M1.12 FOR BASE BID PLANS.



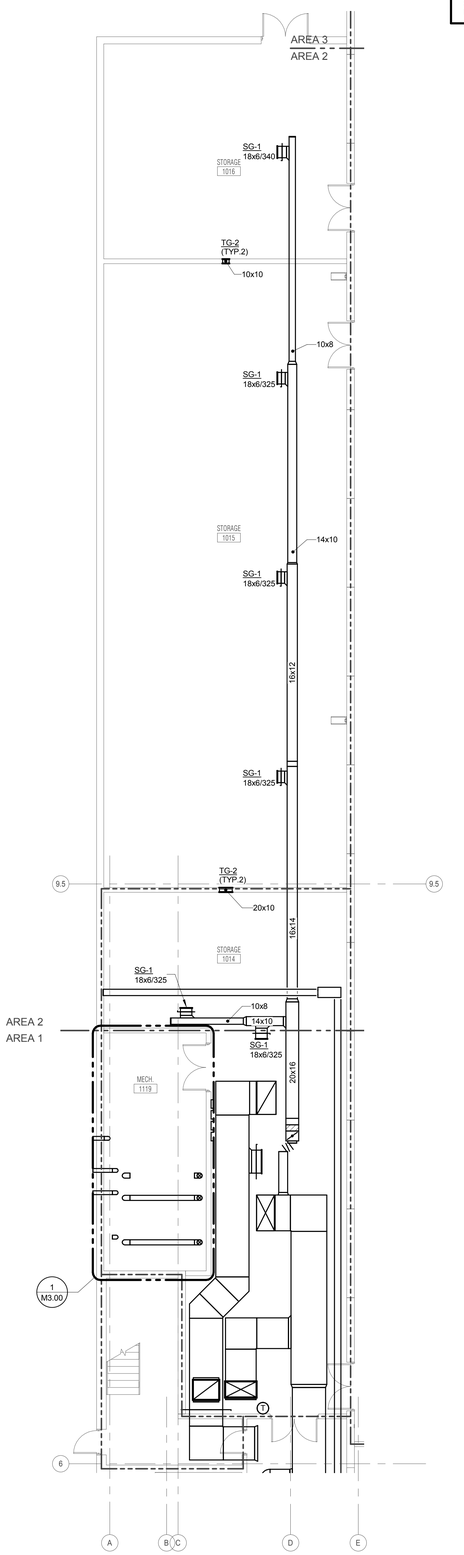
LEVEL 1 PLAN - AREA 2 - VENTILATION - ALT 1

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - VENTILATION - ALT 2

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - VENTILATION - ALT 3

1/8" = 1'-0"

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ALTERNATE PLANS - VENTILATION

SHEET NUMBER:
M1.40

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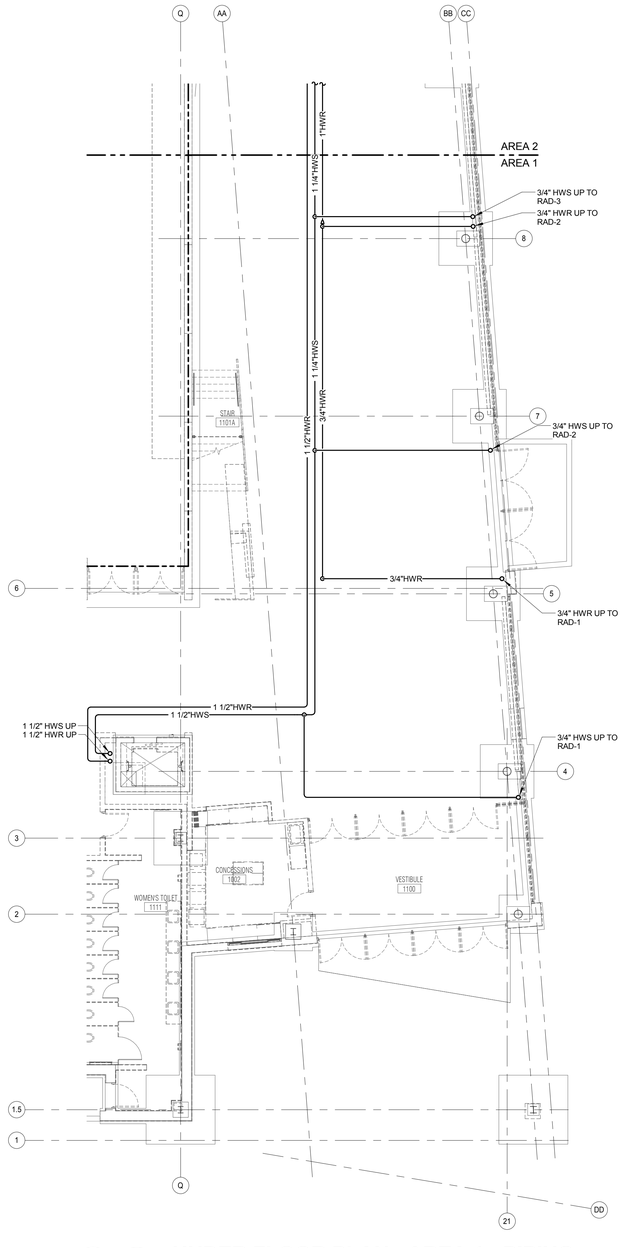
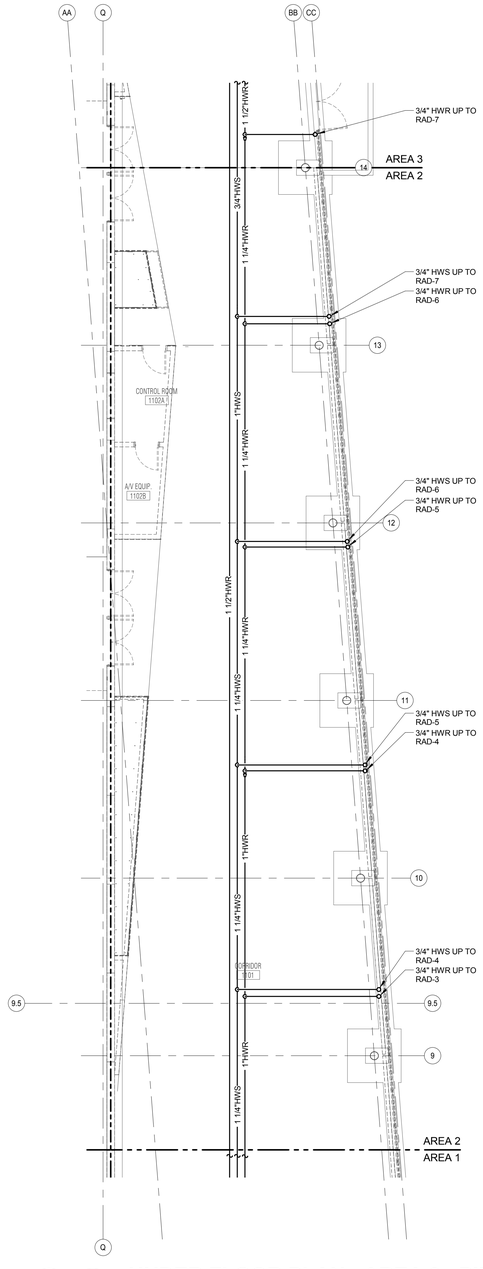
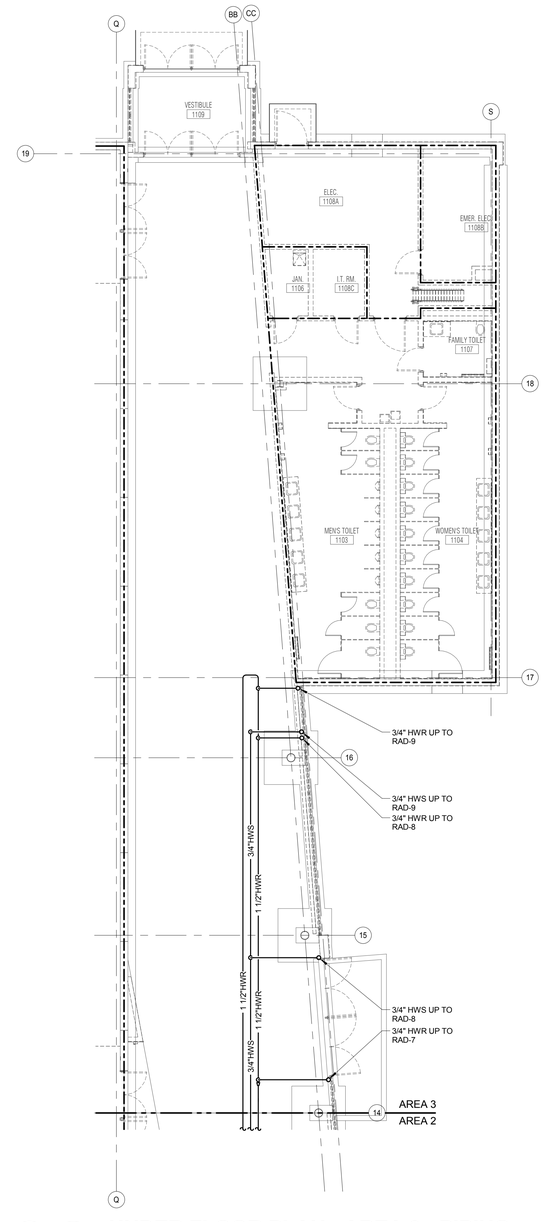


1 UNDER FLOOR PLAN - AREA 1 - PIPING
1/8" = 1'-0"



2 UNDER FLOOR PLAN - AREA 2 - PIPING
1/8" = 1'-0"



3 UNDER FLOOR PLAN - AREA 3 - PIPING
1/8" = 1'-0"

ARCHITECT OF RECORD
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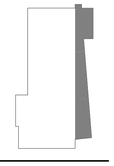
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
UNDER FLOOR PLAN - AREAS 1, 2, & 3 - PIPING

SHEET NUMBER:
M2.00

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1100 WARRENVILLE ROAD, SUITE 400W
NAPERVILLE, ILLINOIS 60563
630.527.2320 FAX: 630.527.2321
www.kjww.com
PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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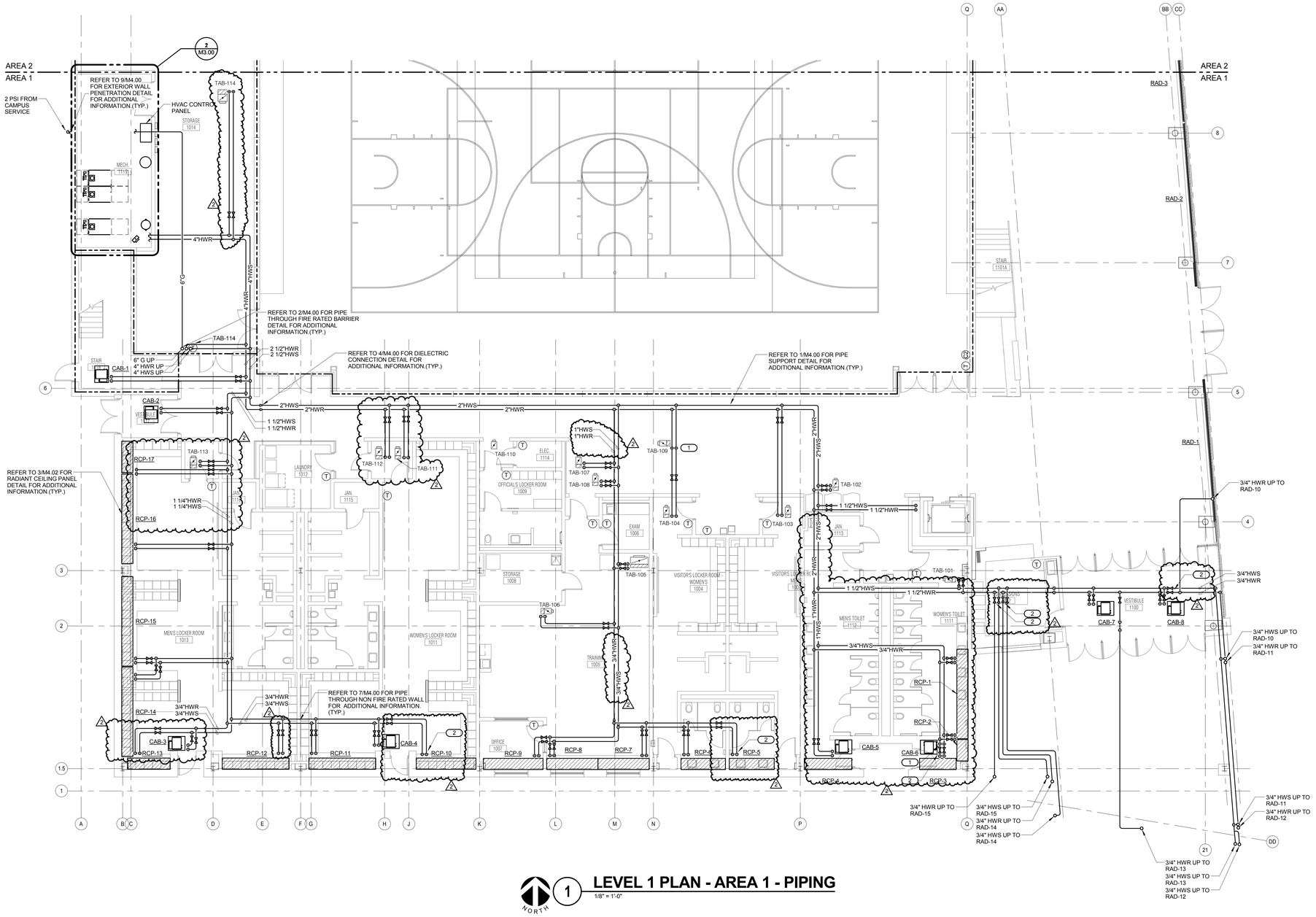
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES

1. ALL PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

KEYNOTES (#)

1. INSTALL SHUT-OFF VALVES IN VERTICAL PIPING.
2. HEATING COIL SHALL BE PROVIDED WITH 3-WAY CONTROL VALVE IN LEIU OF 2-WAY. REFER TO M6.00 FOR VALVE REQUIRMENTS.



NORTH

1 LEVEL 1 PLAN - AREA 1 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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RUETTIGER, TONELLI & ASSOC., INC.
2174 ONEDA ST.
JOLIET, IL 60435
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - PIPING

SHEET NUMBER:
M2.11

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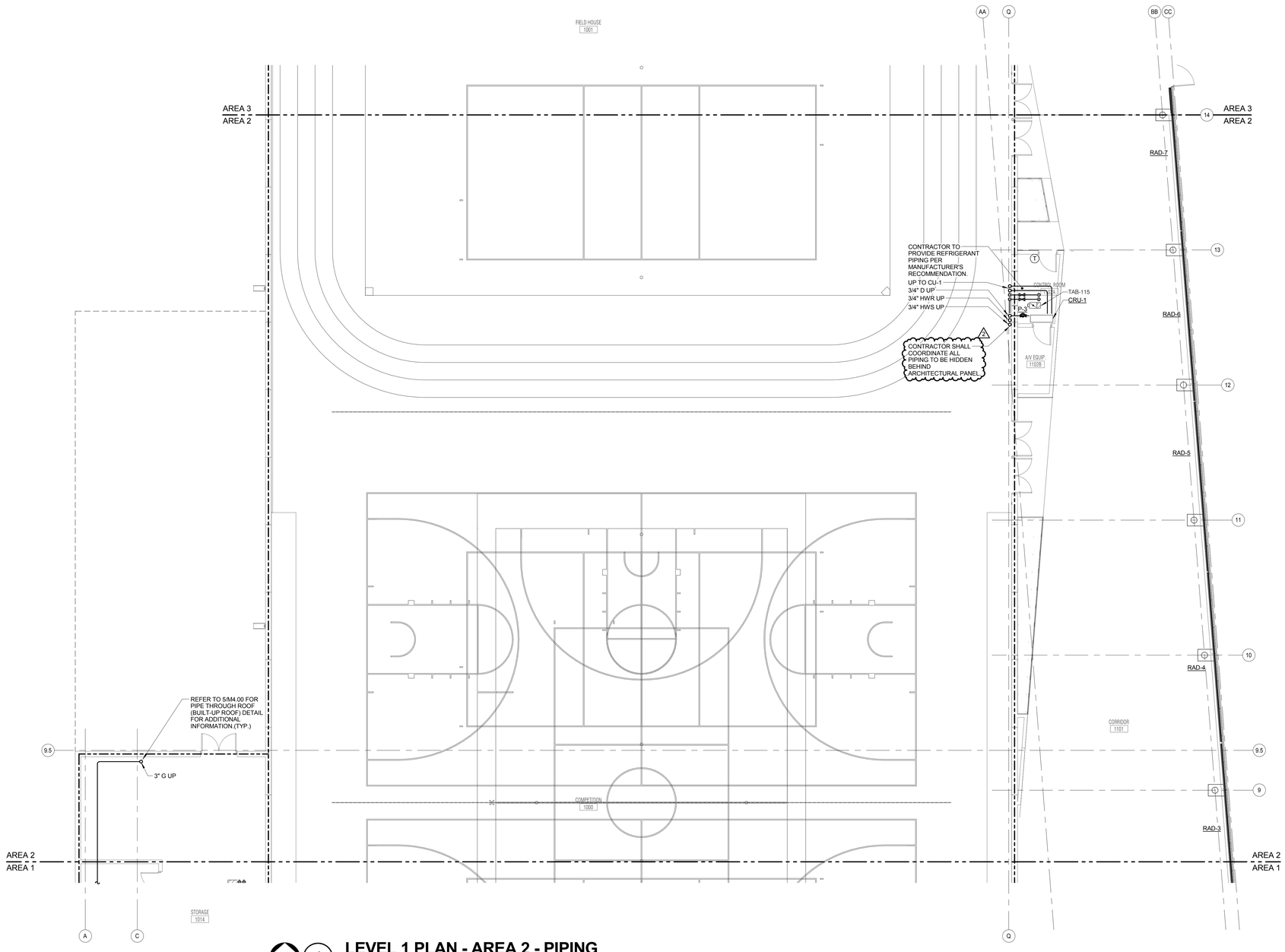

1 LEVEL 1 PLAN - AREA 2 - PIPING

1/8" = 1'-0"

NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 2 - PIPING

SHEET NUMBER:
M2.12

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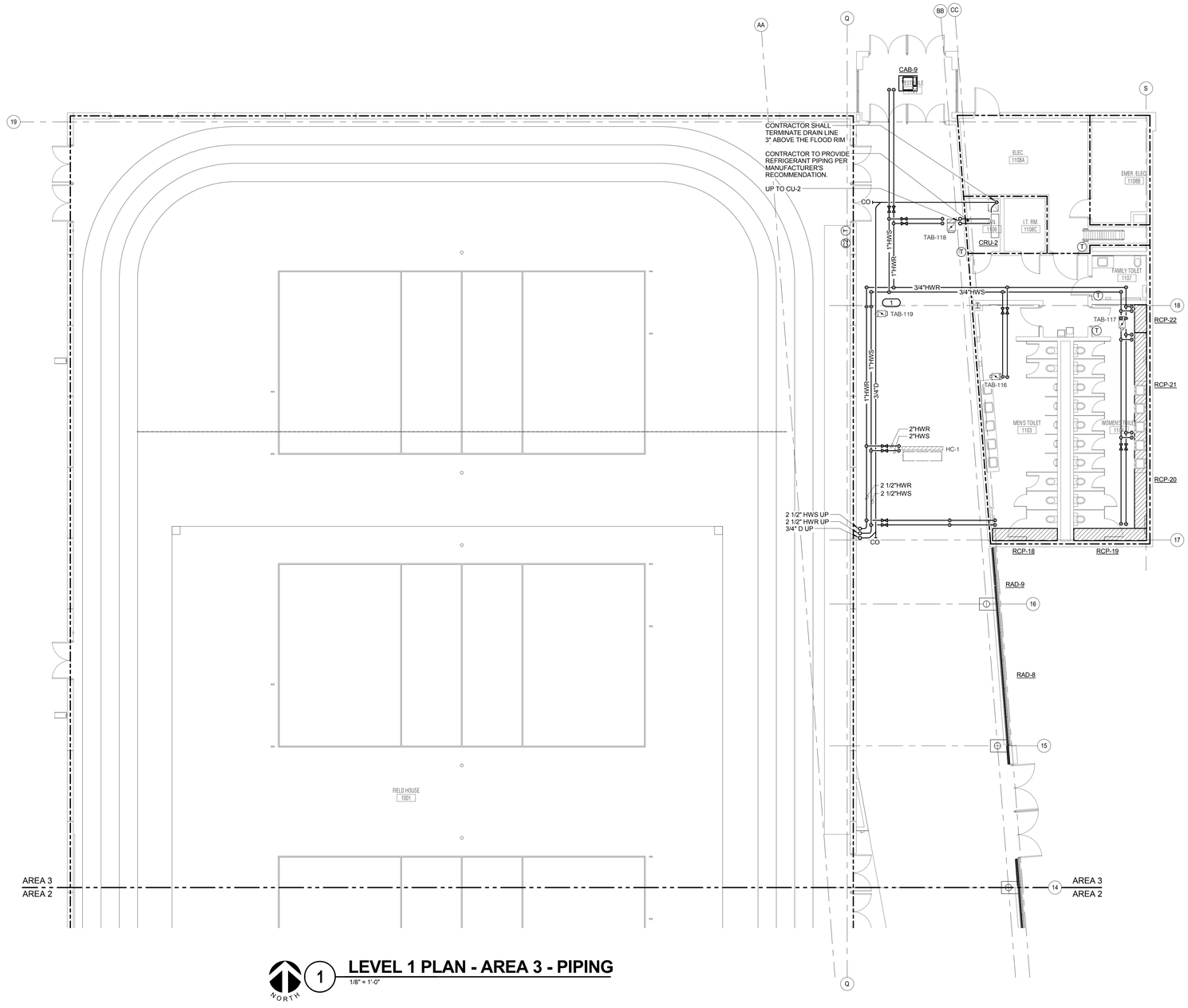
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES

1. ALL PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

KEYNOTES (#)

1. INSTALL SHUT-OFF VALVES IN VERTICAL PIPING.



1 LEVEL 1 PLAN - AREA 3 - PIPING

1/8" = 1'-0"

NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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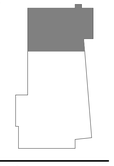
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - PIPING

SHEET NUMBER:
M2.13

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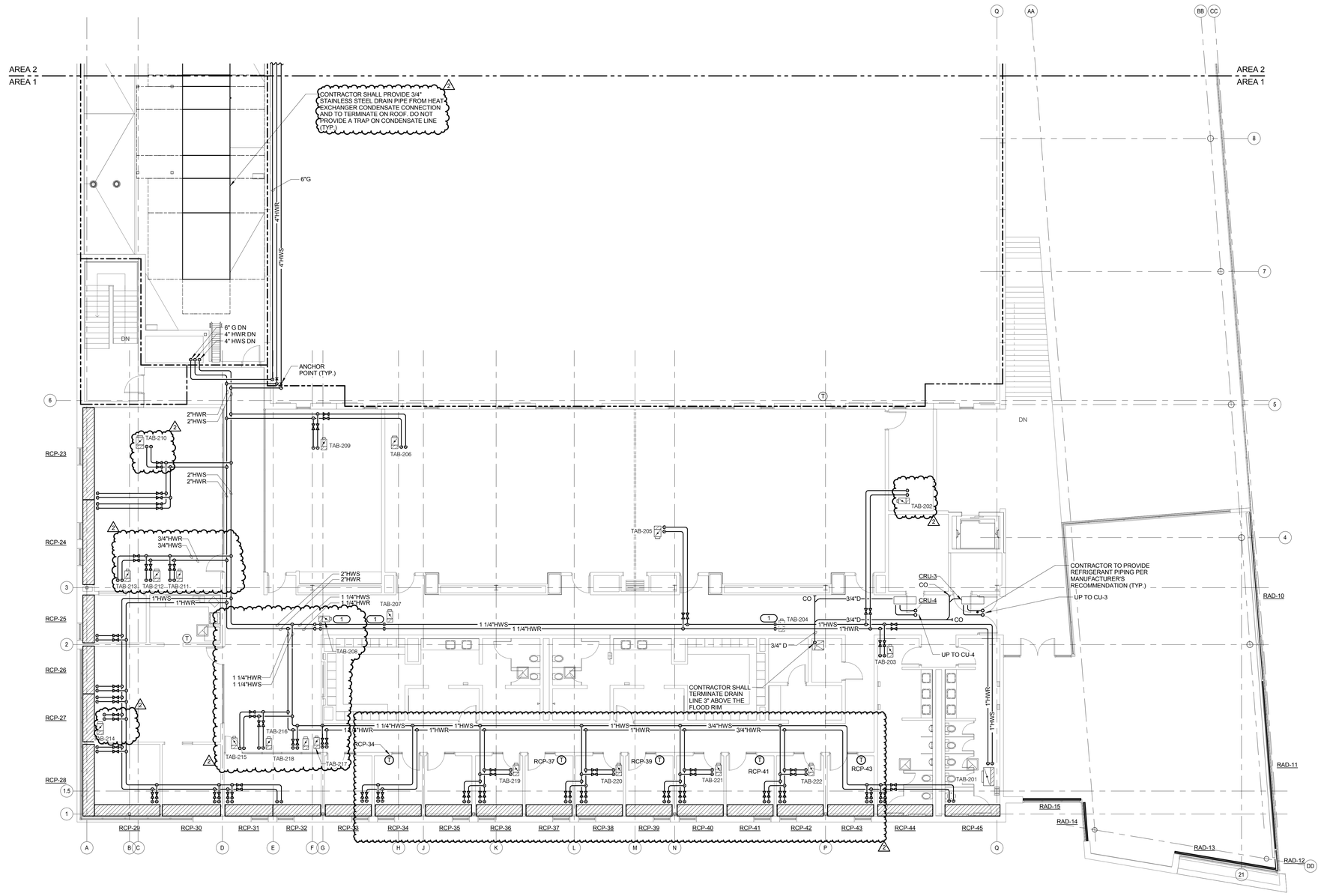
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES

1. ALL PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. ALL PIPING LOCATED IN FIELDHOUSE SHALL BE ROUTED AS TIGHT TO DECK AS POSSIBLE.
3. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.

KEYNOTES (#)

1. INSTALL SHUT-OFF VALVES IN VERTICAL PIPING.



1 LEVEL 2 PLAN - AREA 1 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/1/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - PIPING

SHEET NUMBER:
M2.21

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REFERENCE SCALE IN INCHES
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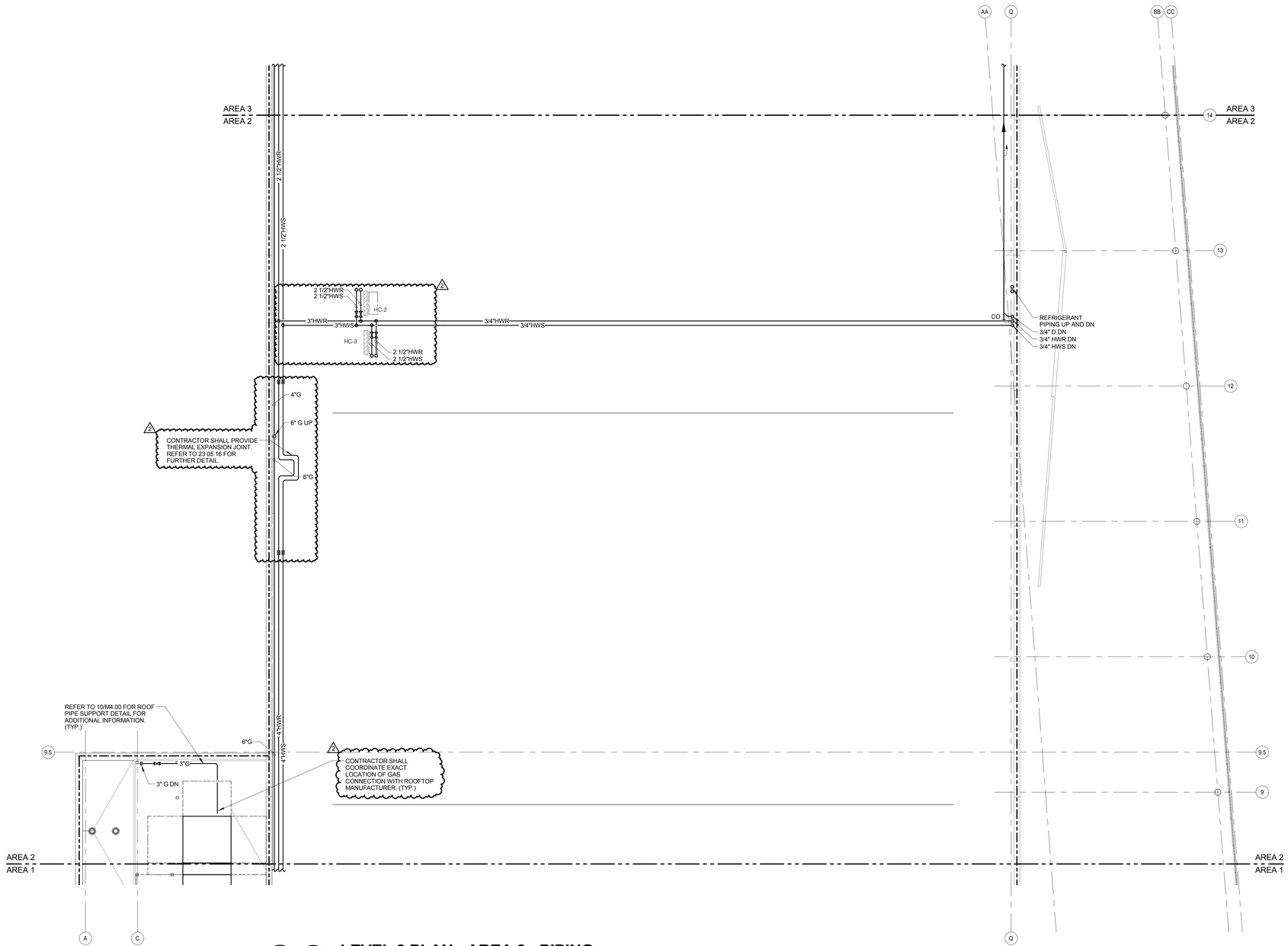
GENERAL SHEET NOTES

1. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.



NORTH

1 LEVEL 2 PLAN - AREA 2 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 2 - PIPING

SHEET NUMBER:

M2.22

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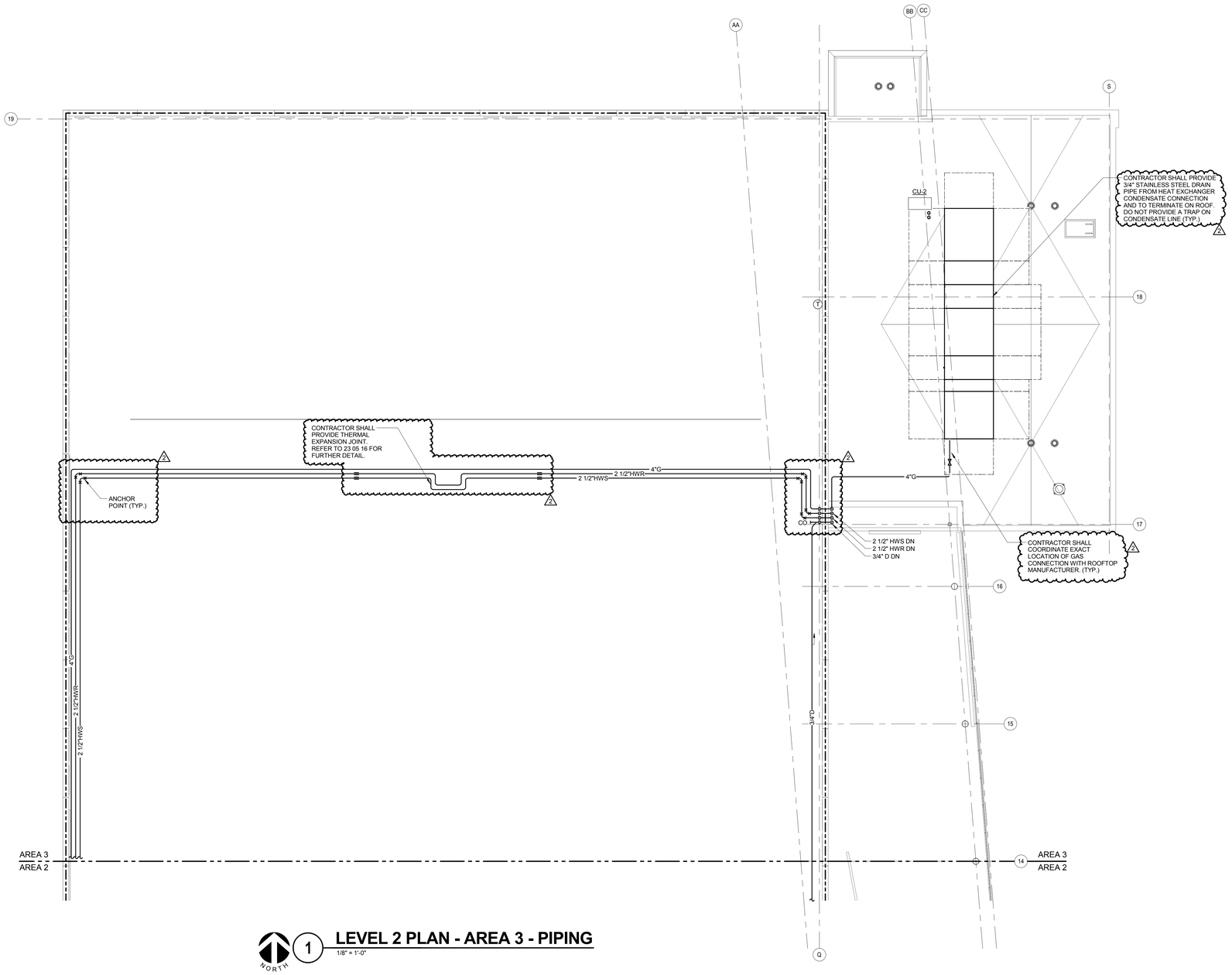

1 LEVEL 2 PLAN - AREA 3 - PIPING

1/8" = 1'-0"

NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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1100 WARRENVILLE RD. SUITE 400W
NAPERVILLE, IL 60563
P: 630.527.2320

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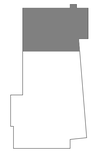
JOLIET, IL 60435
P: 815.744.6600

JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 3 - PIPING

SHEET NUMBER:

M2.23

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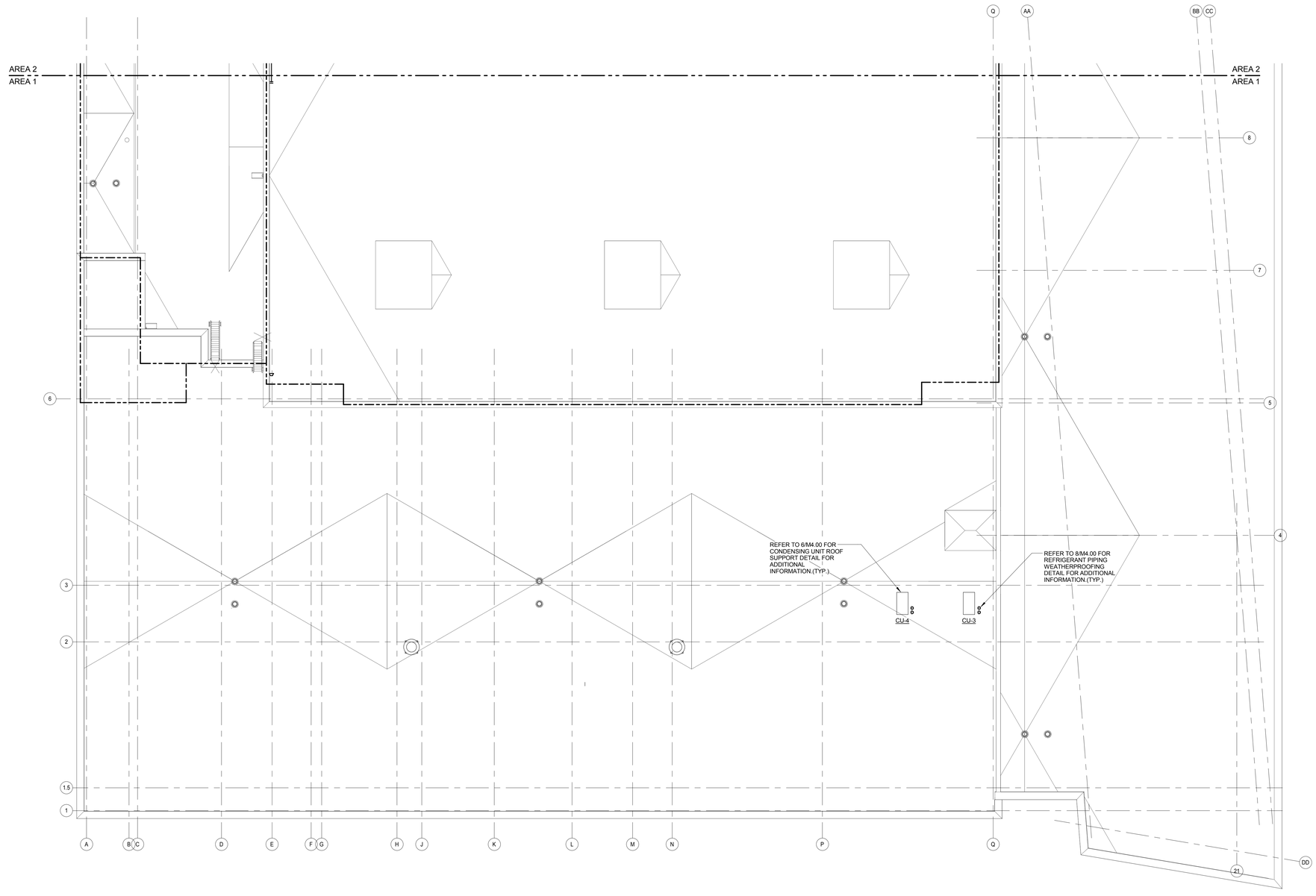

NORTH

1 ROOF PLAN - AREA 1 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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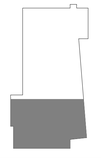
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

ROOF PLAN - AREA 1 - PIPING

SHEET NUMBER:

M2.31

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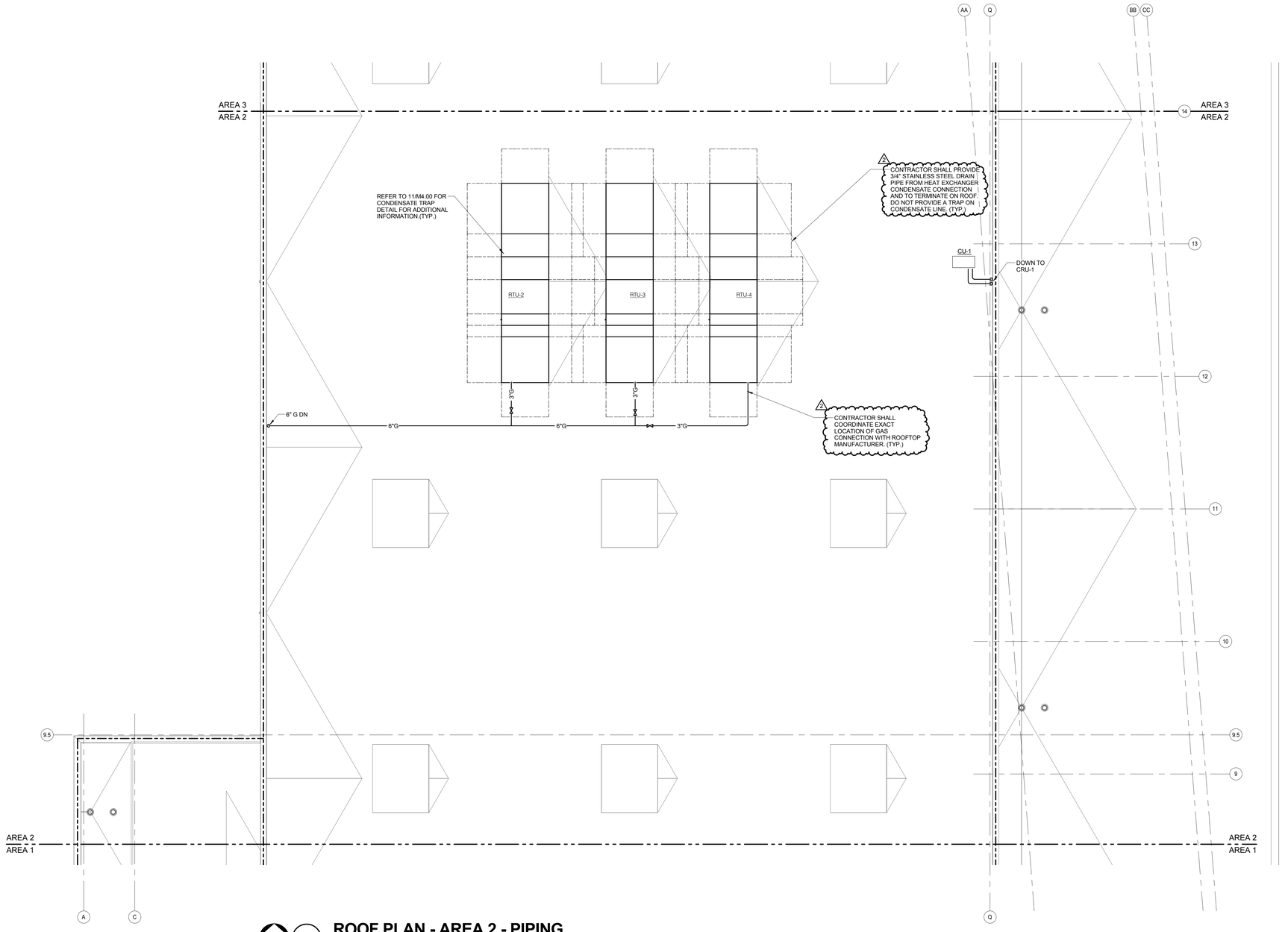

1 ROOF PLAN - AREA 2 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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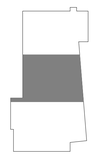
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ROOF PLAN - AREA 2 - PIPING

SHEET NUMBER:
M2.32

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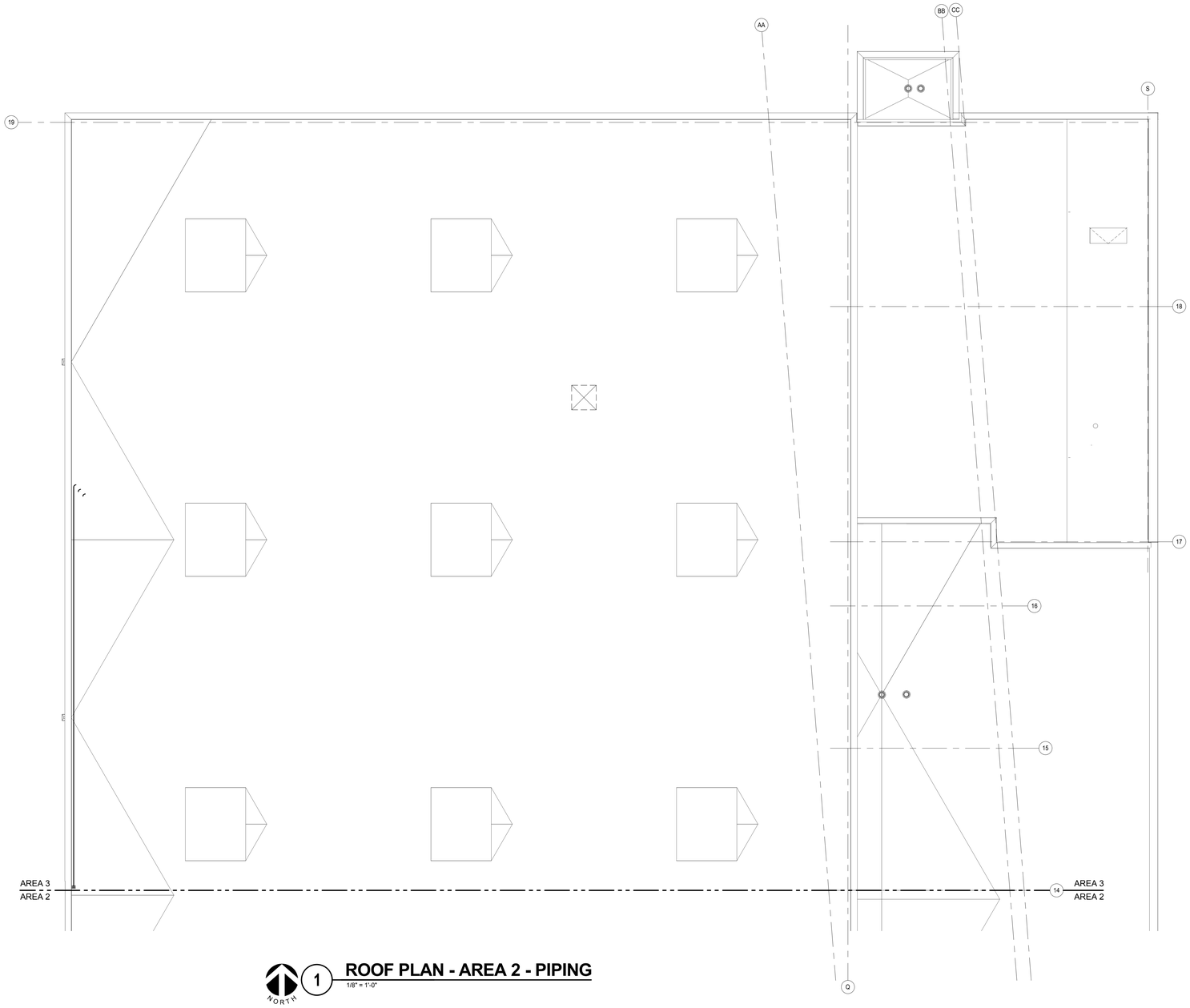

NORTH

1 ROOF PLAN - AREA 2 - PIPING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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KJWW ENGINEERING CONSULTANTS
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NAPERVILLE, IL 60563
P: 630.527.2320

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 3 - PIPING

SHEET NUMBER:
M2.33

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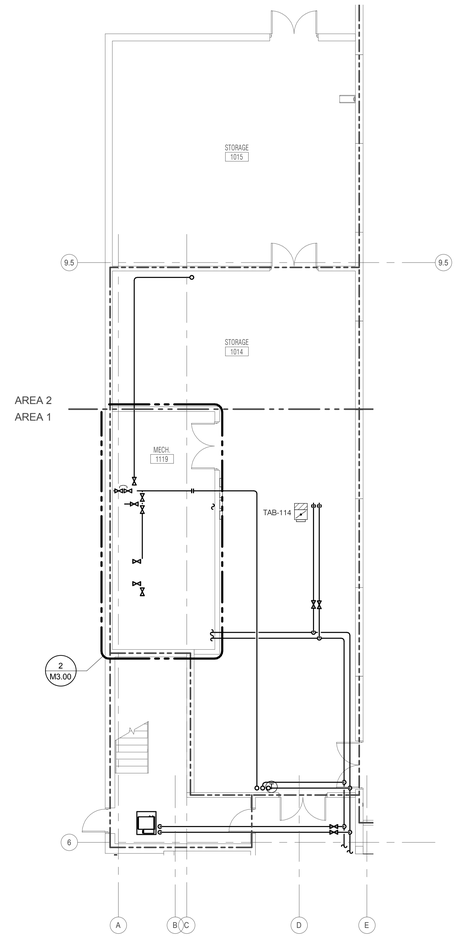
REFERENCE SCALE IN INCHES
0 1 2 3

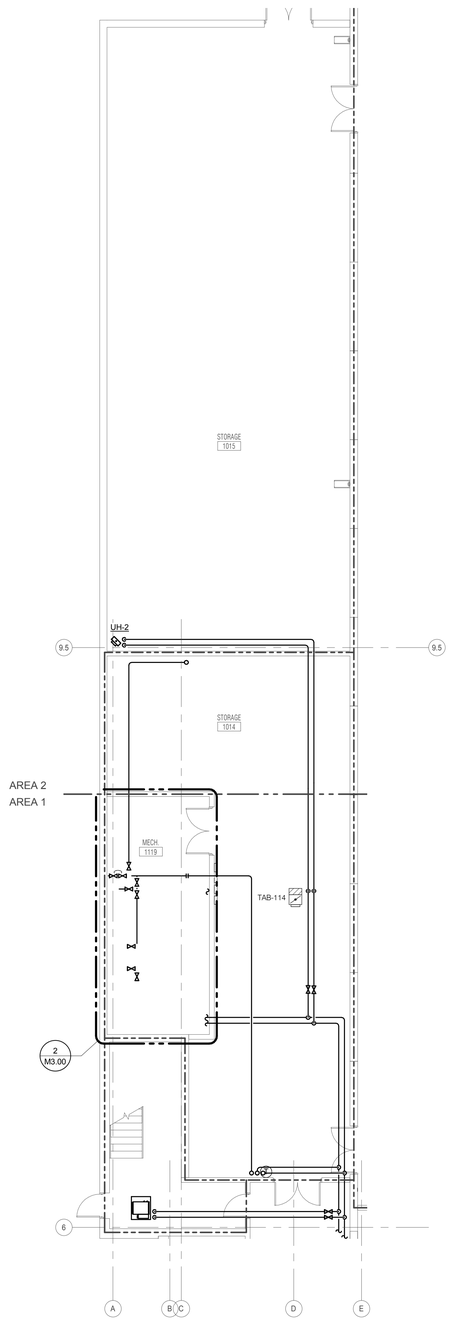
GENERAL SHEET NOTES

1. THE PLANS ON THIS SHEET ARE PART OF ALTERNATES 1, 2, AND 3. CONTRACTOR SHALL SEE SHEET M2.11 & M2.12 FOR BASE BID PLANS.



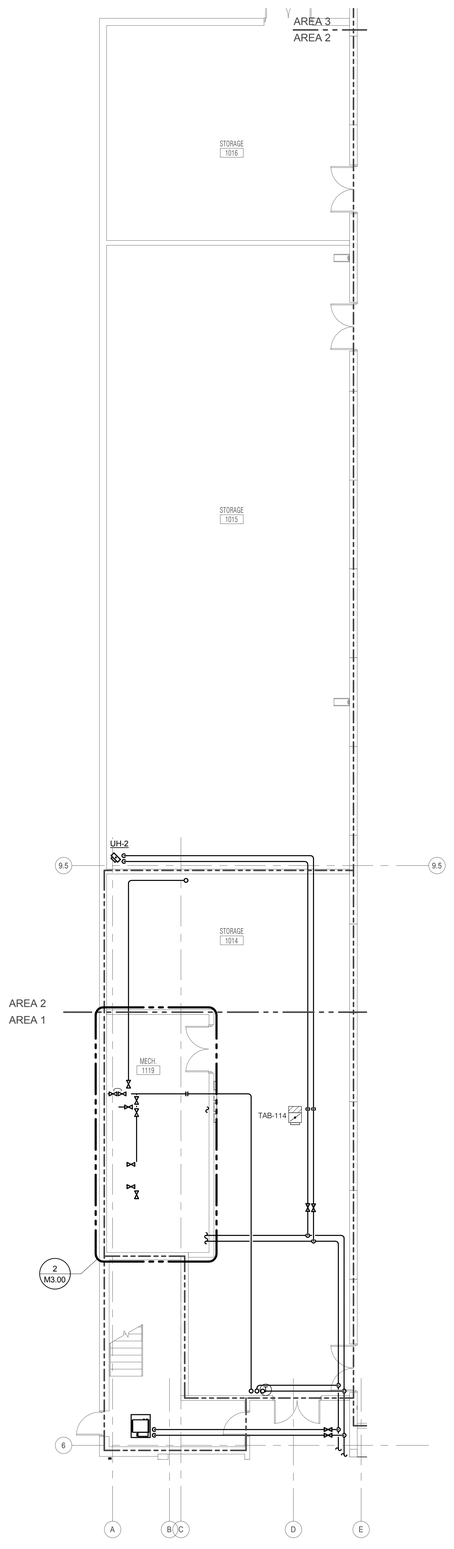
LEVEL 1 PLAN - AREA 2 - PIPING - ALT 1

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - PIPING - ALT 2

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - PIPING - ALT 3

1/8" = 1'-0"

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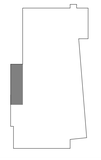
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

ALTERNATE PLANS - PIPING

SHEET NUMBER:

M2.40

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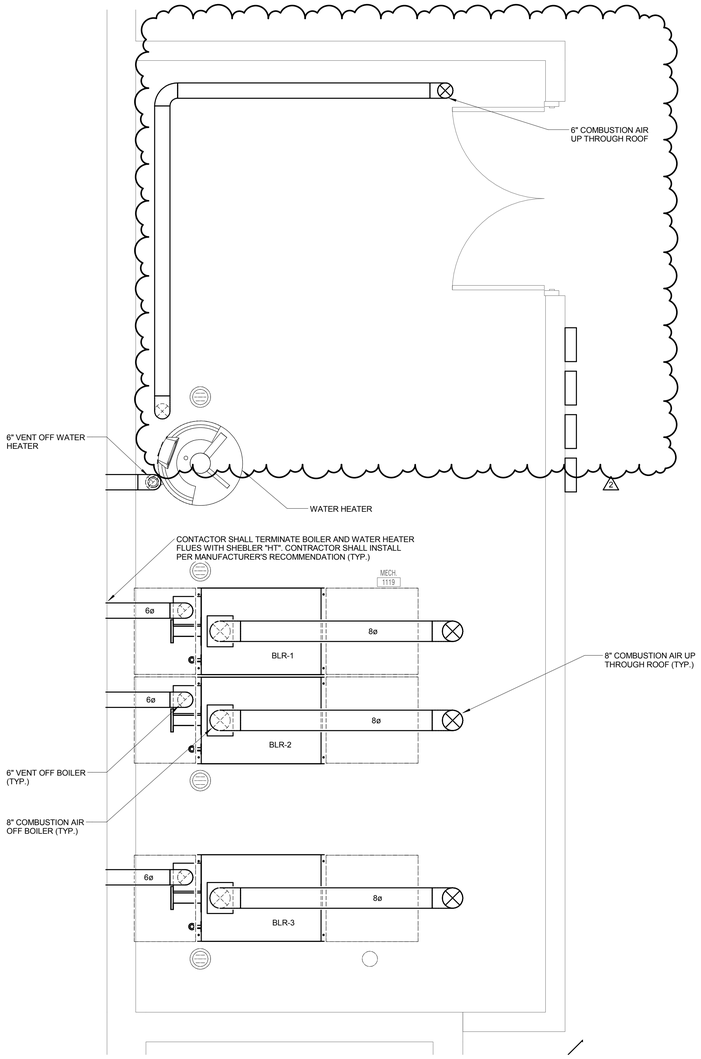
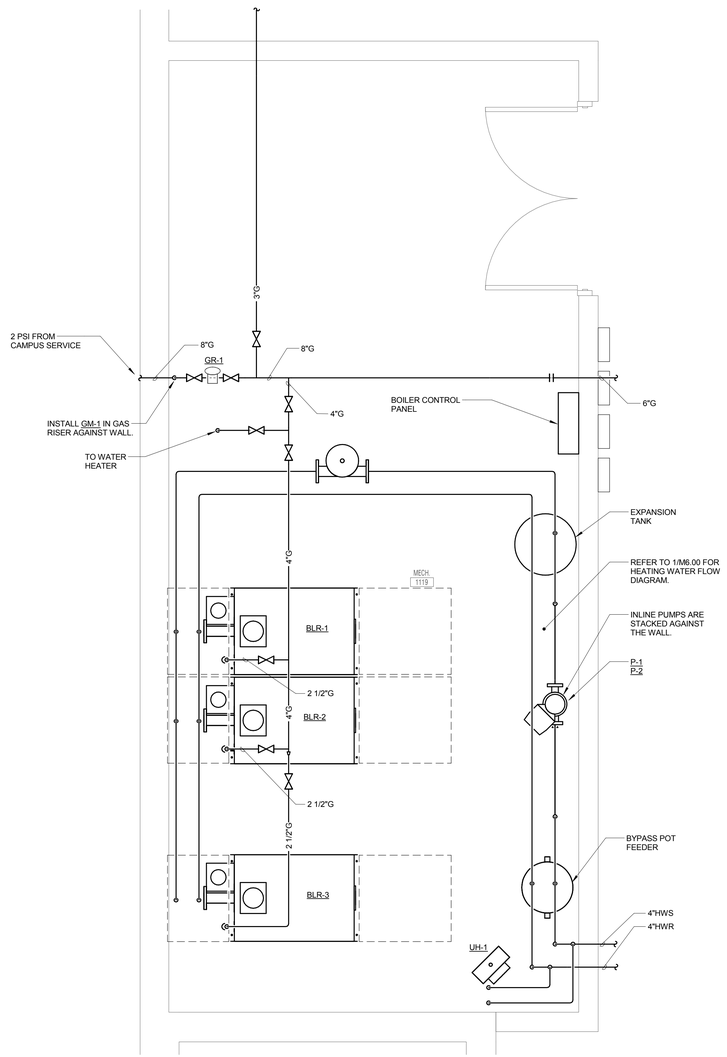


NORTH

1 ENLARGED PLAN - MECHANICAL ROOM 1119 - VENTILATION

1/2" = 1'-0"



NORTH

2 ENLARGED PLAN - MECHANICAL ROOM 1119 - PIPING

1/2" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ENLARGED PLANS - MECHANICAL

SHEET NUMBER:
M3.00

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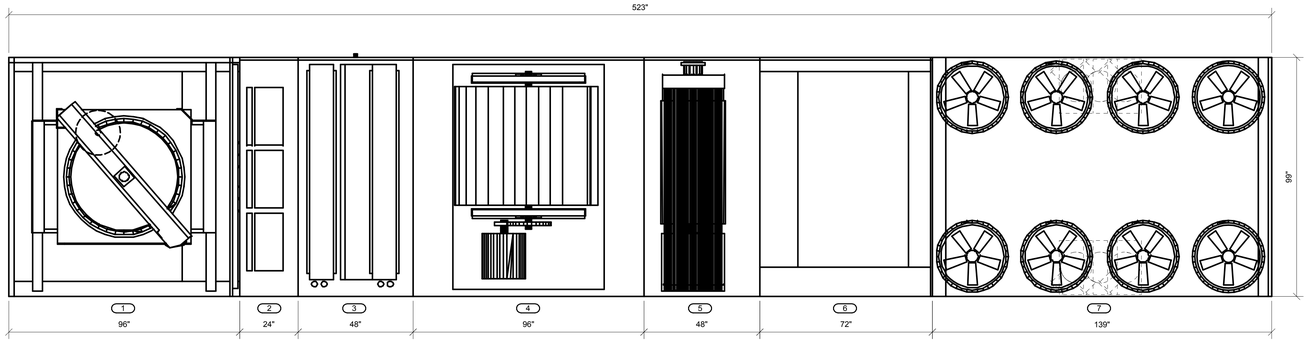
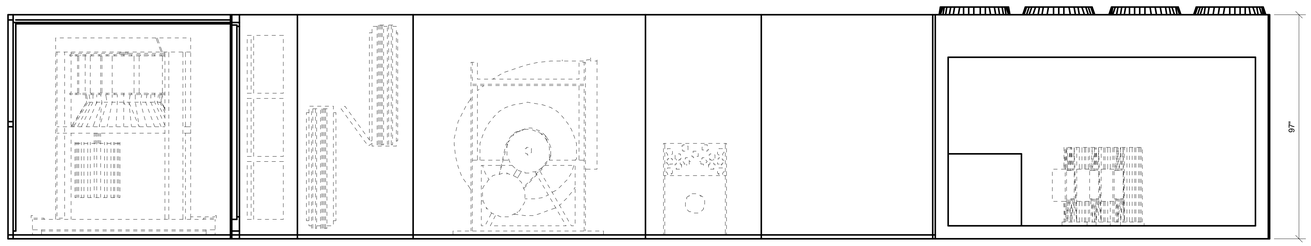
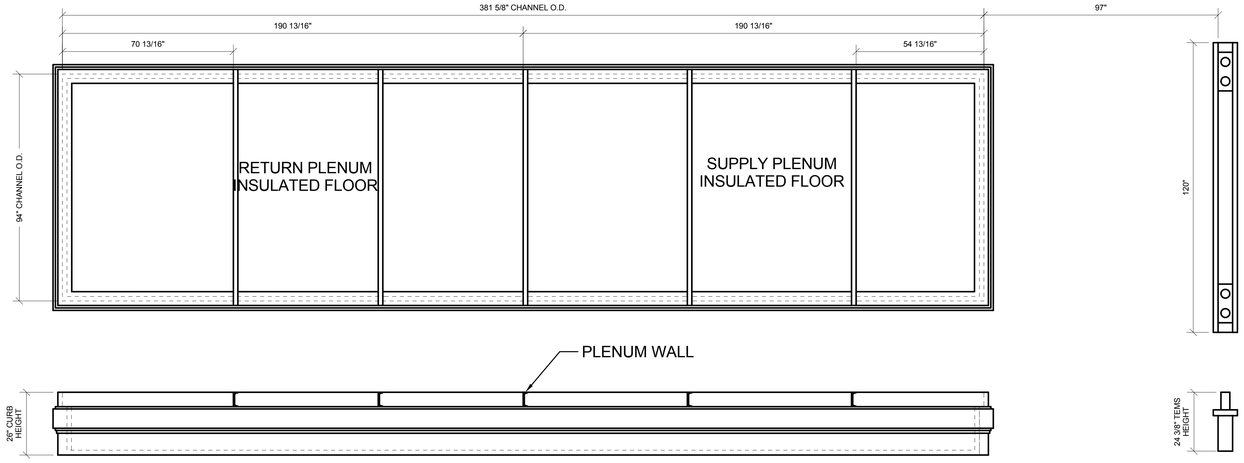


PLAN VIEW



ELEVATION VIEW



1 RTU-1 SECTION DETAIL

NO SCALE

NOTES:

1. UNIT DIMENSIONS LISTED ABOVE ARE MAXIMUMS.
2. RTU-1 IS 17,580 LB AND THE VIBRO ACOUSTIC CURB IS 4,500 LBS. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL WORK IF ANOTHER UNIT IS PROVIDED THAT WILL REQUIRE ADDITIONAL STRUCTURE SUPPORT.

1. EXHAUST FAN
2. CARTRIDGE FILTER
3. DX COIL
4. SUPPLY FAN
5. GAS HEAT
6. PLENUM DISCHARGE
7. CONDENSER

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
RTU DETAILS

SHEET NUMBER:
M3.01

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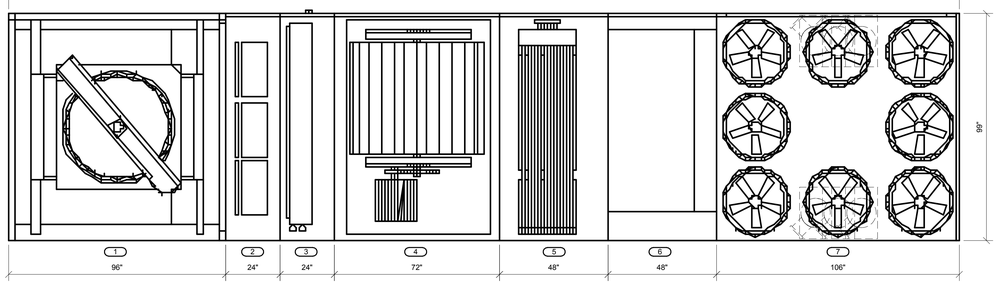
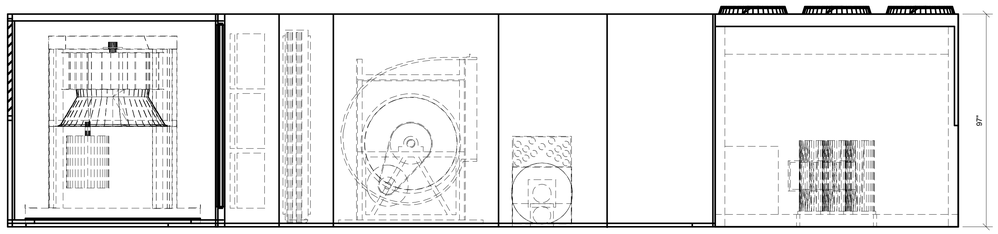
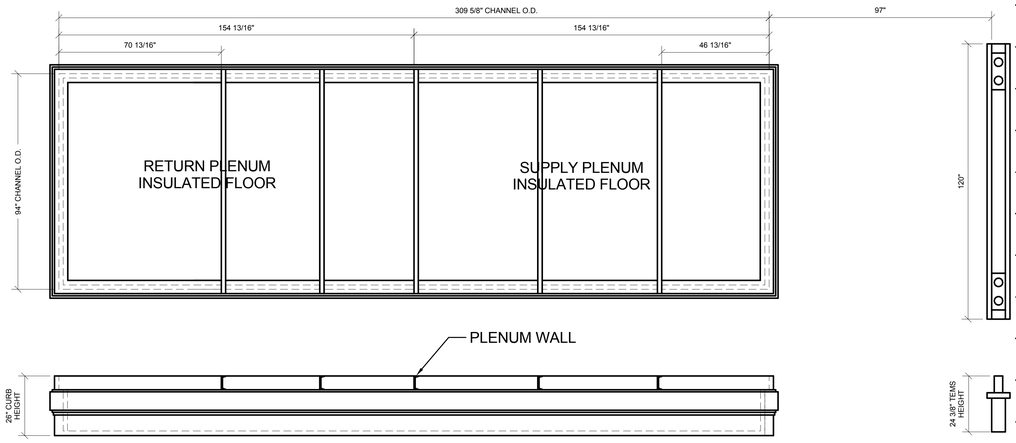


PLAN VIEW



ELEVATION VIEW



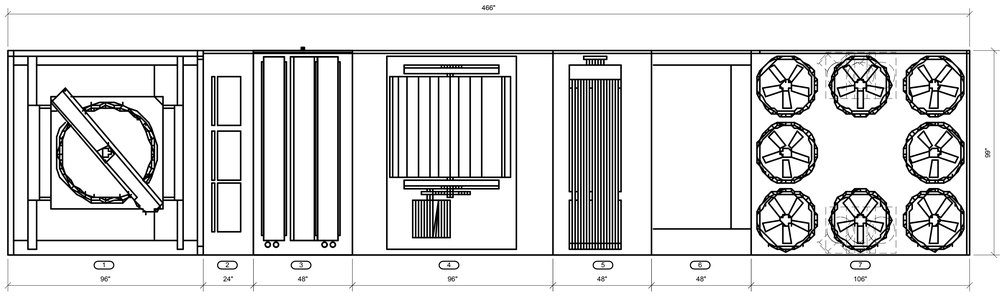
1 RTU-2, RTU-3, & RTU-4 SECTION DETAIL

NO SCALE

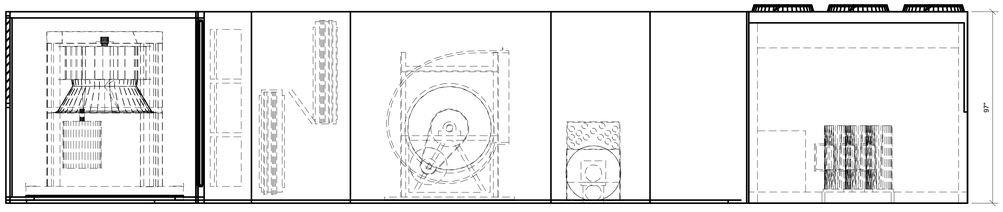
NOTES:

1. UNIT DIMENSIONS LISTED ABOVE ARE MAXIMUMS.
2. RTU-2,3,4 IS 15,132 LBS AND THE VIBRO ACOUSTIC CURB IS 4,000 LBS. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL WORK IF ANOTHER UNIT IS PROVIDED THAT WILL REQUIRE ADDITIONAL STRUCTURE SUPPORT.

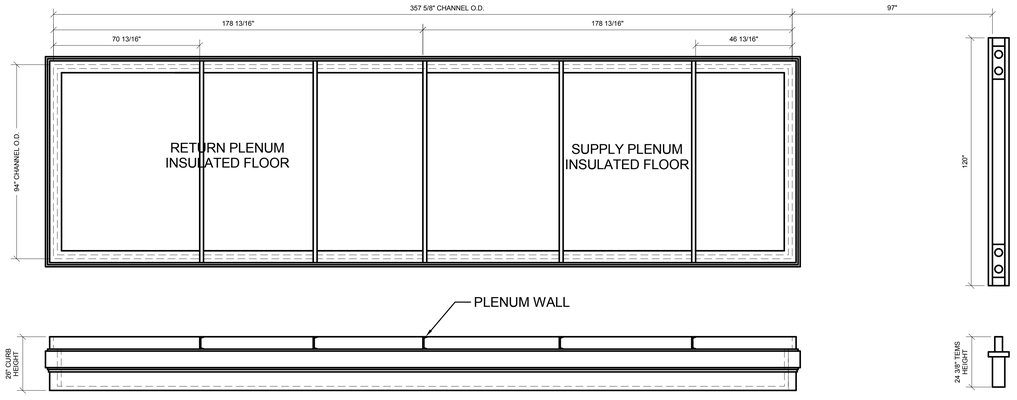
(1) EXHAUST FAN
(2) CARTRIDGE FILTER
(3) DX COIL
(4) SUPPLY FAN
(5) GAS HEAT
(6) PLENUM DISCHARGE
(7) CONDENSER



PLAN VIEW



ELEVATION VIEW



2 RTU-5 SECTION DETAIL

NO SCALE

NOTES:

1. UNIT DIMENSIONS LISTED ABOVE ARE MAXIMUMS.
2. RTU-5 IS 16,575 LB AND THE VIBRO ACOUSTIC CURB IS 4,000 LBS. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL WORK IF ANOTHER UNIT IS PROVIDED THAT WILL REQUIRE ADDITIONAL STRUCTURE SUPPORT.

(1) EXHAUST FAN
(2) CARTRIDGE FILTER
(3) DX COIL
(4) SUPPLY FAN
(5) GAS HEAT
(6) PLENUM DISCHARGE
(7) CONDENSER

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
RTU DETAILS

SHEET NUMBER:
M3.02

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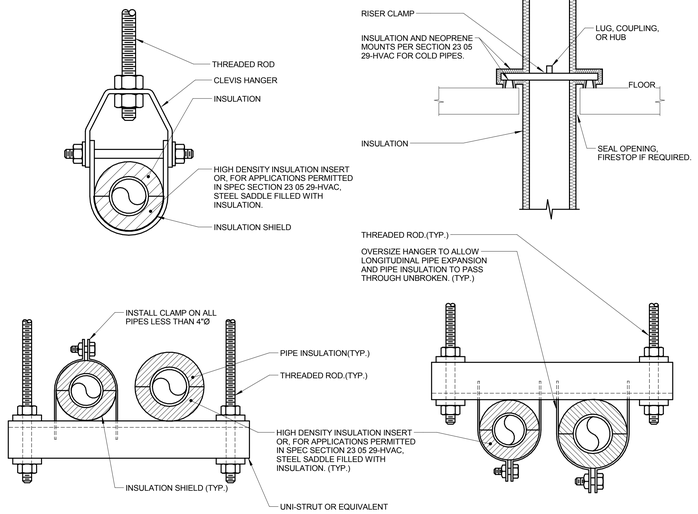
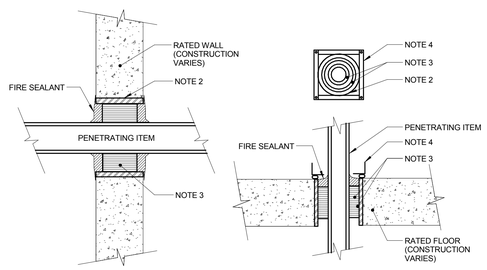


1 PIPE SUPPORT DETAIL

NO SCALE

NOTES:

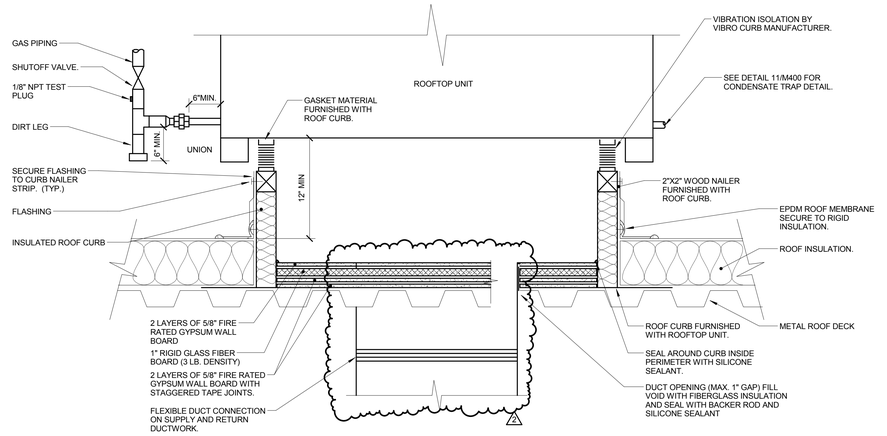
1. REFER TO SPECIFICATION SECTIONS 23 05 29-HVAC & SECTION 23 07 19-HVAC.



2 RATED FIRE BARRIER PENETRATION

NO SCALE
NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 23 05 03 - HVAC FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE, COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

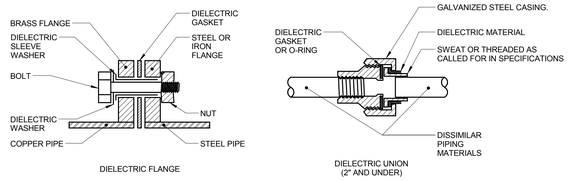


3 ROOFTOP UNIT DETAIL

NO SCALE

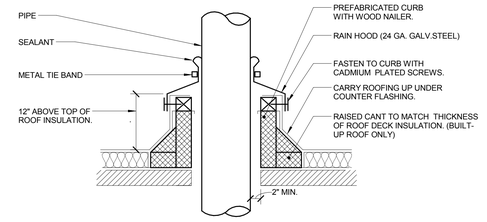
NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE INSULATION.



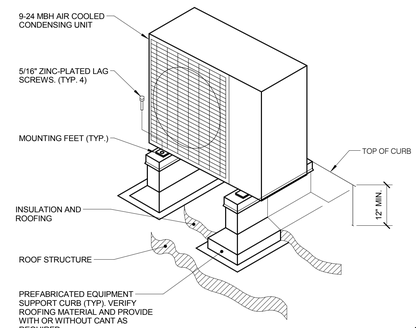
4 DIELECTRIC CONNECTION DETAIL

NO SCALE



5 PIPE THRU ROOF (BUILT-UP ROOF)

NO SCALE

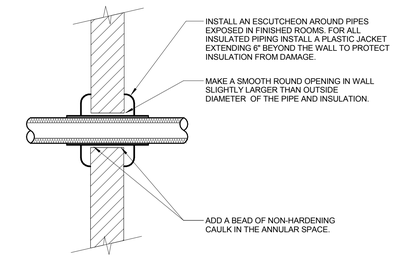


6 CONDENSING UNIT ROOF SUPPORT

NO SCALE

NOTES:

1. VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.

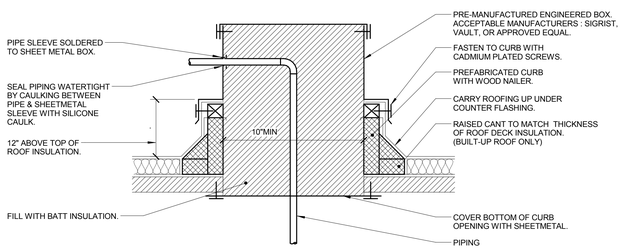


7 PIPE THROUGH NON-FIRE RATED WALL

NO SCALE

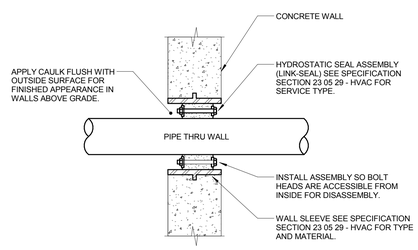
NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. FLOOR OPENINGS ARE SIMILAR SEE SPECIFICATION SECTION 23 05 29 - HVAC FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
3. SEE SPECIFICATION SECTIONS SECTION 23 05 03 - HVAC AND SECTION 23 05 29 - HVAC FOR ADDITIONAL INFORMATION.



8 REFRIGERANT PIPING WEATHERPROOFING

NO SCALE

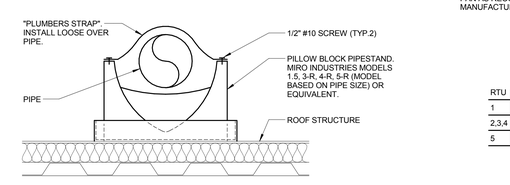


9 EXTERIOR WALL PENETRATION

NO SCALE

NOTES:

1. CONTRACTOR MAY FABRICATE PIPE SLEEVE.
2. SEAL SELECTION BASED ON OLD. OF PIPE THRU WALL AND I.D. OF SLEEVE.
3. SLEEVE NOT REQUIRED FOR CORE DRILLED PENETRATIONS.

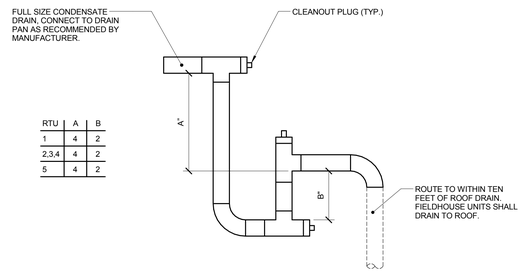


RTU	A	B
1	4	2
2,3,4	4	2
5	4	2

10 PIPE ROOF SUPPORT DETAIL

NO SCALE
NOTES:

1. SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
2. COORDINATE PIPESTAND LOCATIONS.
3. PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
4. MIRO INDUSTRIES (800)768-6978.



11 CONDENSATE TRAP DETAIL

NO SCALE

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
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SHEET TITLE:
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SHEET NUMBER:
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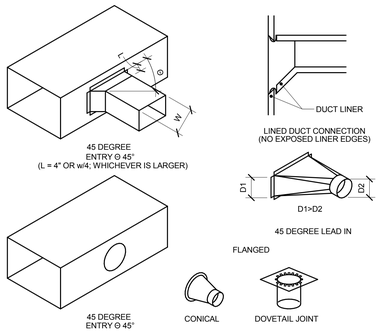
REFERENCE SCALE IN INCHES
0 1 2 3



45 DEGREE
ENTRY Θ 45°
(L = 4" OR w/4, WHICHEVER IS LARGER)

45 DEGREE
ENTRY Θ 45°

LINED DUCT CONNECTION
(NO EXPOSED LINER EDGES)

D1>D2

45 DEGREE LEAD IN

FLANGED

CONICAL

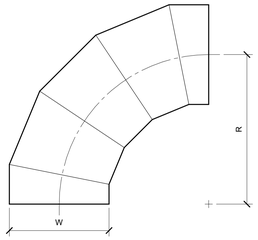
DOVETAIL JOINT

1 BRANCH CONNECTIONS

NO SCALE

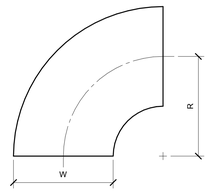
NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



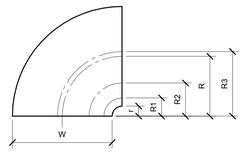
**OVAL / ROUND
RADIUS ELBOW
SMOOTH OR 5 GORE (MINIMUM)**

R/W = 1.5 (MINIMUM)



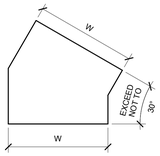
**RECTANGULAR
RADIUS ELBOW
TYPE RE1**

R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3



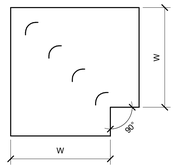
**RECTANGULAR
RADIUS ELBOW WITH VANES
TYPE RE3**

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.

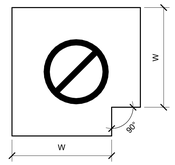


**RECTANGULAR
MITERED ELBOW
TYPE RE6**

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

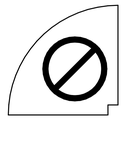


**RECTANGULAR
MITERED ELBOW
WITH VANES
TYPE RE2**



**RECTANGULAR / OVAL / ROUND
MITERED ELBOW
WITHOUT VANES
TYPE RE4**

NOT ALLOWED



**RECTANGULAR
RADIUS ELBOW WITH
SQUARE THROAT**

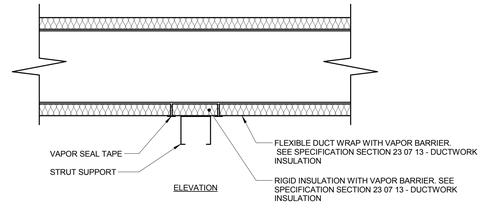
NOT ALLOWED

2 ELBOW CONSTRUCTION

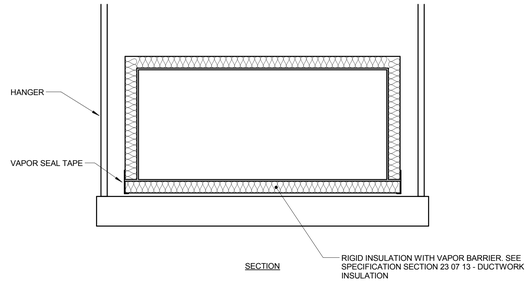
NO SCALE

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE 1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



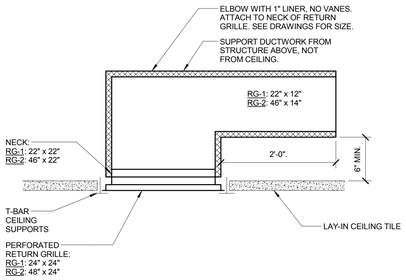
ELEVATION



SECTION

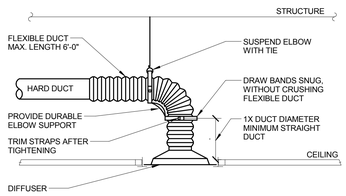
3 TRAPEZE HANGER DUCT WRAP VAPOR SEAL

NO SCALE



4 CEILING RETURN GRILLE

NO SCALE

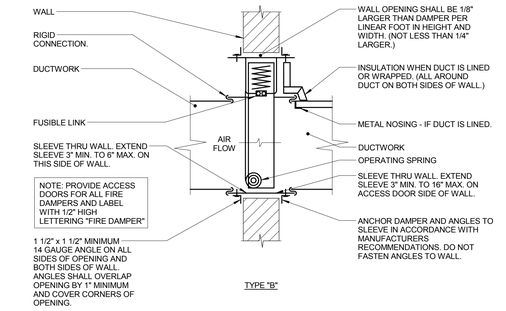


5 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)

NO SCALE

NOTES:

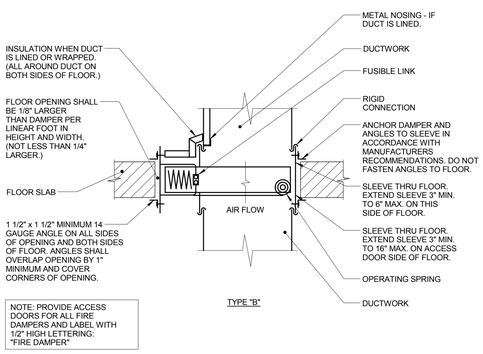
1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM), THERMAFLEX "FLEXFLOW" (WWW.THERMAFLEX.NET/FLEXFLOW_ELBOW.PHP?AUD) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.



TYPE "B"

6 FIRE DAMPER THRU WALL DETAIL (TYPE B)

NO SCALE

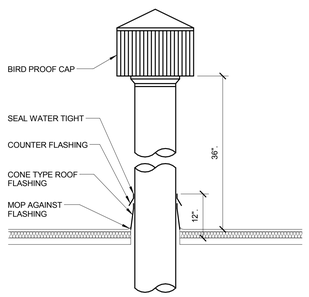


TYPE "B"

NOTE: PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS AND LABEL WITH 1/2" HIGH LETTERING: "FIRE DAMPER"

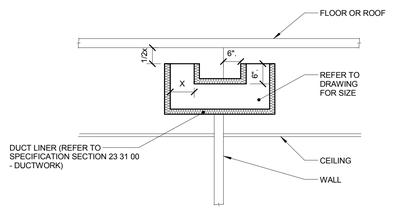
7 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)

NO SCALE



8 GAS VENT

NO SCALE



9 TRANSFER DUCT DETAIL (ENDS UP)

NO SCALE

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M4.01

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
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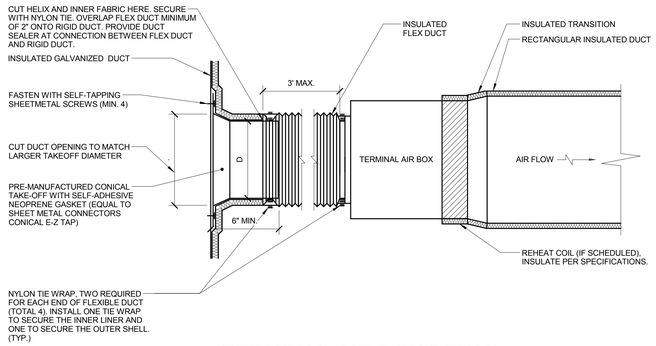
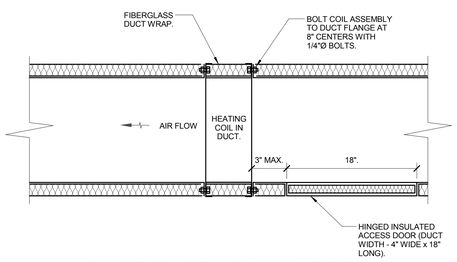


1 TERMINAL AIR BOX DETAIL

NO SCALE

NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

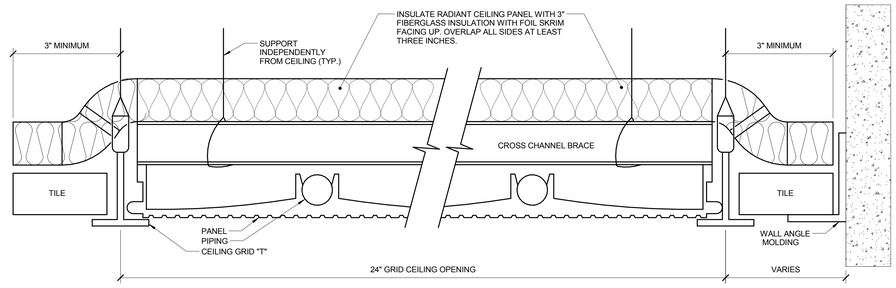


2 DUCT HEATING COIL DETAIL

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL HEATING COILS INSTALLED IN DUCTS. ACCESS DOORS AND FLANGED CONNECTIONS MUST BE PROVIDED AT ALL COILS UNLESS SPECIFICALLY NOTED OTHERWISE.
2. PROVIDE FLANGED CONNECTION ON BOTH SIDES OF COILS. ACCESS DOORS ARE ONLY REQUIRED UPSTREAM OF COILS.
3. PROVIDE 48" STRAIGHT DUCT UPSTREAM AND 24" DOWNSTREAM OF HEATING COIL.

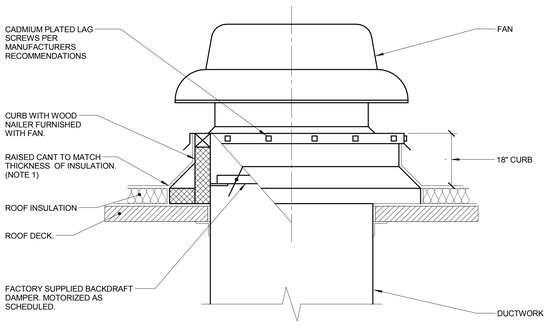


3 RADIANT CEILING PANEL DETAIL

NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 23 82 00 - TERMINAL HEAT TRANSFER UNITS.

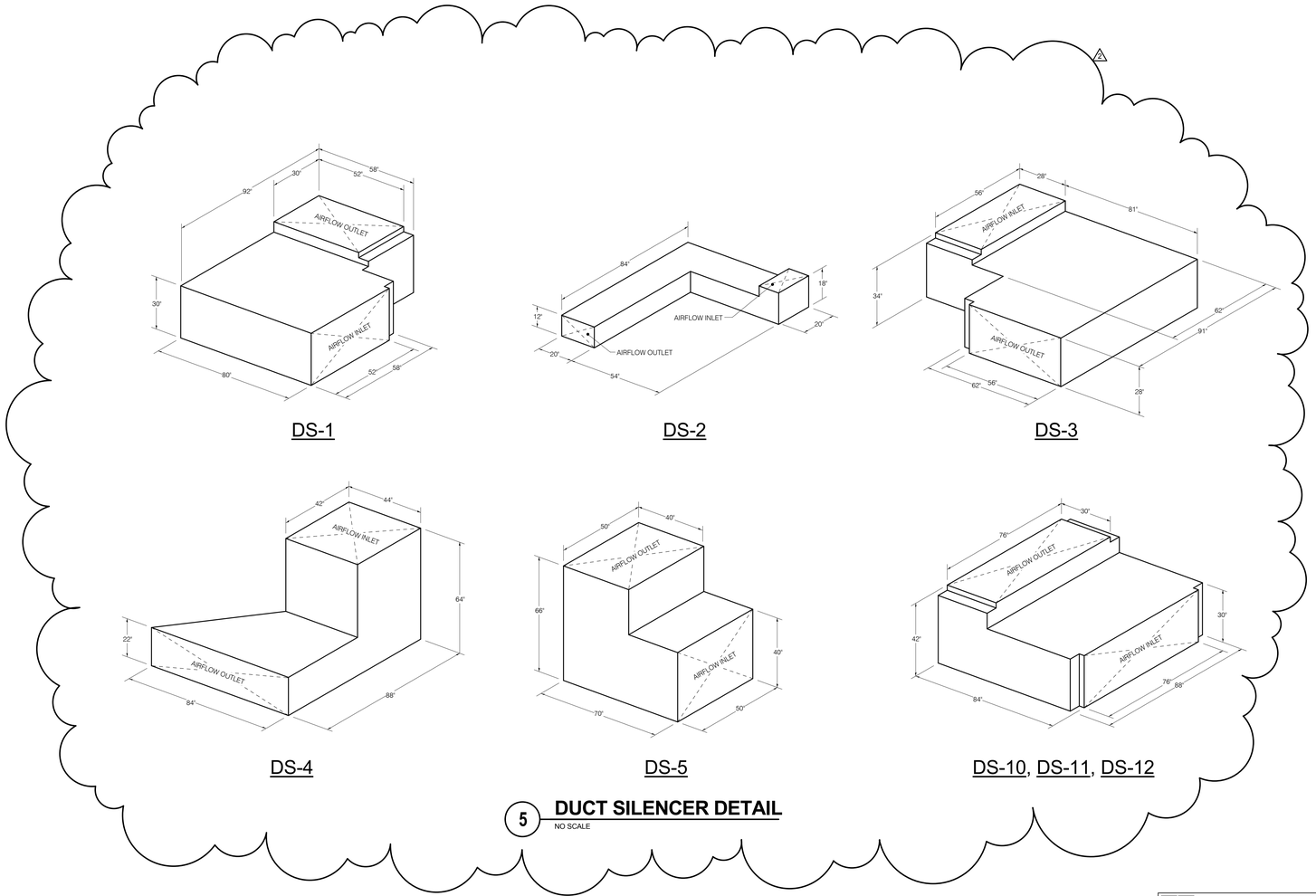


4 ROOF MOUNTED FAN

NO SCALE

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.



5 DUCT SILENCER DETAIL

NO SCALE

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JOLIET JUNIOR COLLEGE
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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M4.02

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PROJECT #: 14.0454.00
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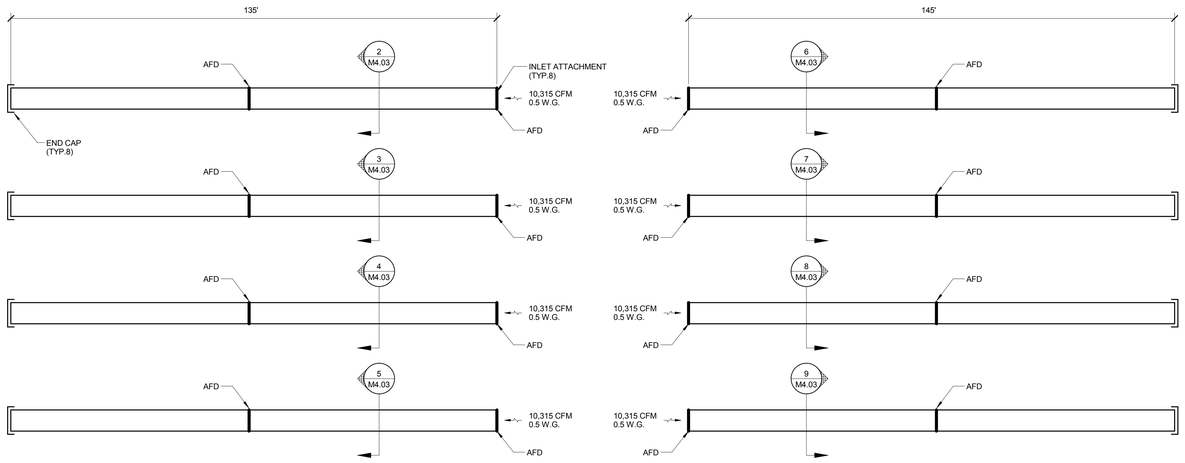
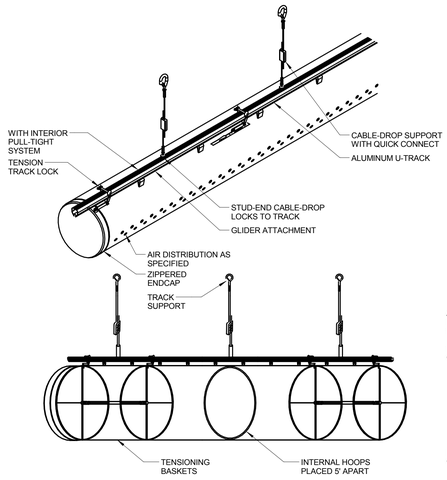
0 1 2 3



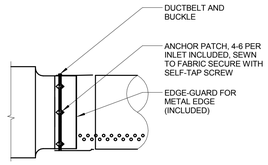
1 FIELDHOUSE AREA FABRIC DUCT SECTION DETAIL

NO SCALE



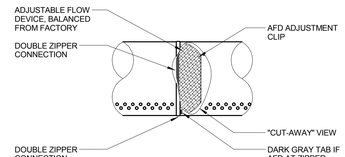
SUSPENSION DETAIL

ROW U-TRACK SUSPENSION AT 12 O'CLOCK SKELECORE PULL-TIGHT



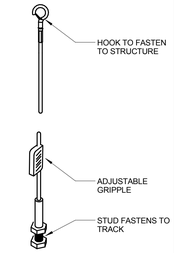
INLET ATTACHMENT DETAIL

SEDONA-XM FABRIC

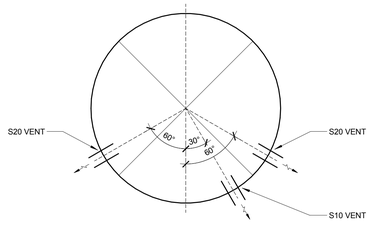


ADJUSTABLE FLOW DEVICE (AFD)

INSTALLED AT ZIPPER LOCATION AT INLET OR AS SPECIFIED IN OTHER LOCATIONS. ZIPPER TO ZIPPER CONNECTION AS SHOWN. EXTERNAL LABEL IDENTIFIES LOCATION



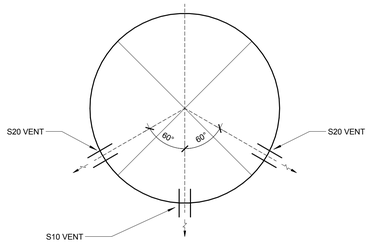
DUCTSOX U-TRACK SUPPORT



2 FABRIC DUCT SECTION DETAIL

NO SCALE

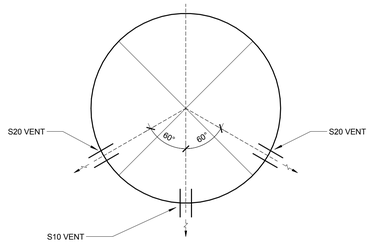
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



3 FABRIC DUCT SECTION DETAIL

NO SCALE

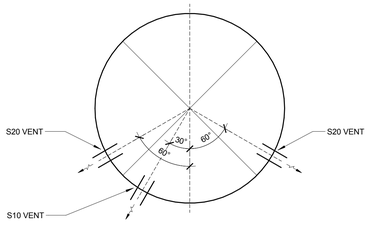
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



4 FABRIC DUCT SECTION DETAIL

NO SCALE

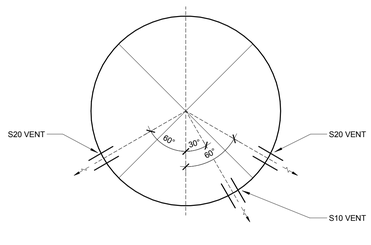
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



5 FABRIC DUCT SECTION DETAIL

NO SCALE

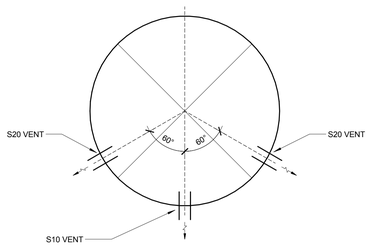
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



6 FABRIC DUCT SECTION DETAIL

NO SCALE

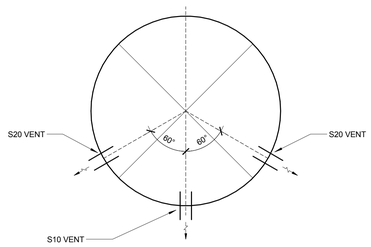
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



7 FABRIC DUCT SECTION DETAIL

NO SCALE

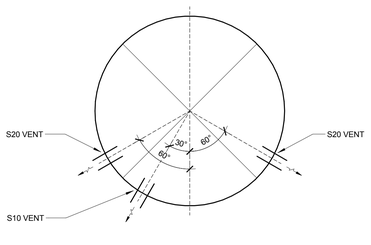
NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



8 FABRIC DUCT SECTION DETAIL

NO SCALE

NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.



9 FABRIC DUCT SECTION DETAIL

NO SCALE

NOTES:
1. REFER TO FIELDHOUSE FABRIC DUCT AIR DISTRIBUTION SCHEDULE ON SHEET M0.00 FOR VENT SIZE PROPERTIES.

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M4.03

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REFERENCE SCALE IN INCHES
0 1 2 3

COMPUTER ROOM UNIT SCHEDULE - DIRECT EXPANSION

SYMBOL	SERVICE	CFM	REFRIGERANT COOLING COIL				FILTERS	ELECTRICAL						MANUFACTURER	MODEL	REMARKS
			REFRIGERANT	EAT		MBH		TYPE	HP	VOLT-PHASE	FLA	MCA	MOCP AMPS	DISCONNECT	CONTROLLER/STARTER				
				°FDB	°FWB	TOTAL	SENSIBLE							BY (NOTE A)	BY (NOTE A)	TYPE			
CRU-1	A/V EQUIP. 1102B	800	R-410a	80	67	24,000	16,320	MERV 8	1/6	208-1	2.1	2.6	30	EC	MFR	4/M7.03	MITSUBISHI	PEAD-AA24AA4	NOTES 1, 2, 3, 4
CRU-2	I.T. RM. 1108C	400	R-410a	80	67	12,000	9,240	MERV 8	1/8	208-1	1	1	15	EC	MFR	4/M7.03	MITSUBISHI	PEAD-AA24AA4	NOTES 1, 2, 3, 4
CRU-3	ELEV. EQUIP. 2102	800	R-410a	80	67	24,000	16,320	MERV 8	1/6	208-1	2.1	2.6	30	EC	MFR	4/M7.03	MITSUBISHI	PEAD-AA24AA4	NOTES 1, 2, 3, 4
CRU-4	I.T. RM. 2103	800	R-410a	80	67	24,000	16,320	MERV 8	1/6	208-1	2.1	2.6	30	EC	MFR	4/M7.03	MITSUBISHI	PEAD-AA24AA4	NOTES 1, 2, 3, 4

NOTES:
1. UNIT POWER IS PROVIDED BY ASSOCIATED CONDENSING UNIT.
2. UNIT SHALL BE PROVIDED WITH CONDENSING UNIT BY THE SAME MANUFACTURER.
3. UNIT IS PROVIDED WITH MANUFACTURERS THERMOSTAT TO CONTROL UNIT.
4. UNIT IS PROVIDED WITH FILTER BOX THAT CORRESPONDS TO A 12"x20"x1" FILTER.

FAN SCHEDULE

SYMBOL	SERVICE	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE	MAX. AMCA SONES	BACKDRAFT DAMPER	CURB TYPE (NOTE F)	ELECTRICAL						MANUFACTURER	MODEL	REMARKS
									BHP (NOTE E)	MHP (NOTE E)	VOLT-PHASE	DISCONNECT		CONTROLLER/STARTER				
												BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)			
EF-1	LOCKER & TOILET ROOMS	3,420	0.75	958	BELT	12.4	MOTORIZED	MFR	0.83	1.0	277-1	MFR	NF	ATC	3/M7.01	COOK	ACEB	
EF-2	LOCKER & TOILET ROOMS	3,420	0.75	958	BELT	12.4	MOTORIZED	MFR	0.83	1.0	277-1	MFR	NF	ATC	3/M7.01	COOK	ACEB	
EF-3	TOILET ROOMS	1,625	0.5	1,302	DIRECT	11.7	MOTORIZED	MFR	0.28	0.50	277-1	MFR	NF	ATC	3/M7.01	COOK	ACED	
EF-4	LAUNDRY DRYER	1,200	1.0	1,600	DIRECT	-	-	-	0.40	0.50	120-1	EC	-	MFR	8/M7.00	ENERVEX	BESB-250	NOTES 1 & 2

NOTES:
1. FAN AND CONTROLS BY A SINGLE MANUFACTURER.
2. BOX VENTILATOR WITH SWING OUT HOUSING FOR EASE LINT INSPECTION / CLEANING. FAN INCLUDES DISC AND VIBRATION ISOLATION.

HOT WATER BOILER SCHEDULE

SYMBOL	NOMINAL BHP	FUEL	INLET FUEL PRESSURE	TURNDOWN RATIO	INPUT BTU/HR	OUTPUT BTU/HR	EWT °F	LWT °F	OPERATING PRESSURE	ELECTRICAL				MANUFACTURER	MODEL	REMARKS
										MCA	VOLT-PHASE	DISCONNECT	CONTROLLER/STARTER			
												BY (NOTE A)	BY (NOTE A)			
BLR-1	41.9	NATURAL GAS	4"-26" W.C.	1:10	1,500,000	1,305,000	180	150	150 PSIG	25	120-1	EC	MFR	FULTON	EDR-1500	
BLR-2	41.9	NATURAL GAS	4"-26" W.C.	1:10	1,500,000	1,305,000	180	150	150 PSIG	25	120-1	EC	MFR	FULTON	EDR-1500	
BLR-3	41.9	NATURAL GAS	4"-26" W.C.	1:10	1,500,000	1,305,000	180	150	150 PSIG	25	120-1	EC	MFR	FULTON	EDR-1500	

UNIT HEATER SCHEDULE - HOT WATER

SYMBOL	SERVICE	TYPE	CFM	MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HEAD	ELECTRICAL						CONTROL	MANUFACTURER	MODEL	REMARKS
									HP	RPM	VOLT-PHASE	DISCONNECT		CONTROLLER/ STARTER				
												BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE			
UH-1	STORAGE 1014	HORIZONTAL	370	16.2	1.1	180	150	0.8	1/25	1,550	120-1	EC	-	MFR	T-STAT	2/M7.00	MODINE	WTC	
UH-2	MECH. 1119	HORIZONTAL	370	16.2	1.1	180	150	0.8	1/25	1,550	120-1	EC	-	MFR	T-STAT	2/M7.00	MODINE	WTC	

PUMP SCHEDULE

SYMBOL	GPM	PUMP FT. HEAD AT DESIGN	MIMIMUM PUMP EFFICIENCY	SUCTION / IMPELLER CUT DIA IN.	MIN / MAX IMPELLER DIA IN.	ELECTRICAL						MANUFACTURER	MODEL	REMARKS
						HP (NOTE E)	RPM	VOLT-PHASE	DISCONNECT		CONTROLLER/STARTER					
									BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)				
P-1	278.8	95	73.0	3" / 5.375"	5" / 7"	15.0	3,525	460-3	-	VFD	-	VFD	BELL & GOSSET	e80 3x3x7B	NOTES 1
P-2	278.8	95	73.0	3" / 5.375"	5" / 7"	15.0	3,525	460-3	-	VFD	-	VFD	BELL & GOSSET	e80 3x3x7B	NOTES 1
P-3	5.0	25	-	-	-	1/12	-	120-1	EC	-	MFR	-	LITTLEGIANT	3-ABS	NOTES 1

NOTES:
1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.

RADIANT CEILING PANEL

SYMBOL	SERVICE	MBH	GPM	LENGTH FT.	WIDTH FT.	NO. OF TUBES	BTUH/FT	AVERAGE WATER TEMP. °F	CONTROL TYPE	MANUFACTURER	MODEL	REMARKS
RCP-1	WOMEN'S TOILET 1111	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-2	WOMEN'S TOILET 1111	1.4	0.5	3'-10"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-3	WOMEN'S TOILET 1111	2.4	0.5	6'-6"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-4	MEN'S TOILET 1111	3.1	0.5	8'-6"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-5	VISITOR'S LOCKER ROOM - MENS 1003	4.6	0.5	12'-8"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-6	VISITOR'S LOCKER ROOM - WOMENS 1004	4.7	0.5	13'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-7	TRAINING 1005	3.3	0.5	9'-2"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-8	TRAINING 1005	3.3	0.5	9'-2"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-9	OFFICE 1007	3.9	0.5	10'-8"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-10	WOMEN'S LOCKER ROOM 1011	3.9	0.5	10'-8"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-11	WOMEN'S LOCKER ROOM 1011	4.3	0.5	11'-10"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-12	MEN'S LOCKER ROOM 1013	4.3	0.5	11'-10"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-13	MEN'S LOCKER ROOM 1013	2.8	0.5	7'-8"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-14	MEN'S LOCKER ROOM 1013	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-15	MEN'S LOCKER ROOM 1013	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-16	MEN'S LOCKER ROOM 1013	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-17	MEN'S LOCKER ROOM 1013	2.1	0.5	5'-8"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-18	MEN'S TOILET 1103	3.8	0.5	10'-7"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-19	WOMEN'S TOILET 1104	4.3	0.5	11'-11"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-20	WOMEN'S TOILET 1104	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-21	WOMEN'S TOILET 1104	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-22	WOMEN'S TOILET 1104	1.6	0.5	4'-6"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-23	TUTORING 2004	5.8	0.5	16'-0"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-24	TUTORING 2004	5.3	0.5	14'-9"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-25	OFFICE 2005	3.0	0.5	8'-4"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-26	RECEPTION 2007	3.0	0.5	8'-4"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-27	RECEPTION 2007	3.0	0.5	8'-4"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-28	A.D. OFFICE 2008	4.5	0.5	12'-6"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-29	A.D. OFFICE 2008	3.8	0.5	10'-5"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-30	WOMEN'S SPORT OFFICE 2009	3.7	0.5	10'-2"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-31	CONFERENCE ROOM 2010	3.0	0.5	8'-6"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-32	CONFERENCE ROOM 2010	3.0	0.5	8'-4"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-33	OFFICE 2011	3.0	0.5	8'-3"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-34	OFFICE 2012	3.0	0.5	8'-4"	2'	4	364	165	2/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-35	OFFICE 2013	3.0	0.5	8'-3"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-36	OFFICE 2014	3.0	0.5	8'-3"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-37	OFFICE 2015	3.0	0.5	8'-4"	2'	4	364	165	2/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-38	OFFICE 2016	3.0	0.5	8'-4"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-39	OFFICE 2017	3.0	0.5	8'-3"	2'	4	364	165	2/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-40	OFFICE 2018	3.0	0.5	8'-3"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-41	OFFICE 2019	3.0	0.5	8'-4"	2'	4	364	165	2/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-42	OFFICE 2020	3.0	0.5	8'-3"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-43	OFFICE 2021	3.0	0.5	8'-2"	2'	4	364	165	2/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-44	MEN'S TOILET 2104	3.5	0.5	9'-7"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1
RCP-45	WOMEN'S TOILET 2101	3.5	0.5	9'-7"	2'	4	364	165	5/M7.01	AIR-TITE	AR-X	NOTE 1

NOTES:
1. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE/SENSOR.
2. CONTRACTOR SHALL VERIFY AND FIELD MEASURE RADIATION TO PROVIDE WALL TO WALL RADIATION AND ACCOUNT FOR MOUNTING REQUIREMENTS.

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
   MFR = MANUFACTURER
   EC = ELECTRICAL CONTRACTOR.
B. DISCONNECT TYPE:
   NF = NON-FUSED
C. CONTROLLER STARTER TYPE:
   VFD = VARIABLE FREQUENCY DRIVE
D. MUST BE WITHIN +/- 10% OF SCHEDULED RPM. WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
F. CURB TYPE:
   MFR = STANDARD CURB BY MANUFACTURER

MECHANICAL MATERIAL LIST

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

GR-1

GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF.

2-5 PSI INLET PRESSURE, 14" W.C OUTLET PRESSURE, 11,000 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 150 CFM.

ACCEPTABLE MANUFACTURERS: FISHER (S200 SERIES) OR ITRON, SENSUS, MAXITROL EQUIVALENT

WM-1

WATER METER - COMPOUND TYPE, ALL BRONZE CONSTRUCTION, 1" SIZE, TOP READING CUMULATIVE DIAL WITH FACE PLATE CAP, BUILDING AUTOMATION SYSTEM CONNECTION, AWWA COMPLIANT.

PROVIDE STRAINER, TEST PORT, AND FULL SIZE BYPASS WITH LOCKABLE VALVE.

ACCEPTABLE MANUFACTURERS: NEPTUNE, BADGER, HERSEY

GM-1

GAS METER - DIAPHRAGM TYPE, ALUMINUM CASE, PRESSURE AND TEMPERATURE COMPENSATING INDEXES, 100 PSIG PRESSURE RATING, MEETS ANSI B109.2, PROVIDE WITH ODOMETER TYPER TOTALIZING REGISTER IN CF, REMOTE READOUT WITH ABILITY TO OUTPUT TO BAS AND RVPF12 PULSER.

INSTAL IN GAS MAIN AFTER IT ENTERS THE BUILDING AND BEFORE AND BRANCHES. INSTALL SHUTOFF VALVES UPSTREAM AND DOWNSTREAM.

ACCEPTABLE MANUFACTURERS: AMERICAN METER (AL-5000) OR APPROVED EQUAL.

RADIATION SCHEDULE

SYMBOL	SERVICE	BTU/FT	GPM	CABINET			AVERAGE WATER TEMP. °F	CONTROL TYPE/ SENSOR	MANUFACTURER	MODEL	REMARKS
				LENGTH	HEIGHT	DEPTH					
RAD-1	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-2	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-3	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-4	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-5	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-6	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-7	CORRIDOR 1101	932	1.5	24'-10"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-8	CORRIDOR 1101	932	1.8	29'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-9	CORRIDOR 1101	932	0.5	6'-6"	5-3/4"	5"	165	5/M7.01	RUNTAL	R2F-2	NOTE 1
RAD-10	CONDITIONING 2000	574.5	1.2	29'-6"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1
RAD-11	CONDITIONING 2000	574.5	1.2	29'-6"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1
RAD-12	CONDITIONING 2000	574.5	0.5	3'-10"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1
RAD-13	CONDITIONING 2000	574.5	0.6	16'-9"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1
RAD-14	CONDITIONING 2000	574.5	0.5	6'-5"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1
RAD-15	CONDITIONING 2000	574.5	0.5	10'-2"	2-3/4"	5"	165	5/M7.01	RUNTAL	R2F-1	NOTE 1

NOTES:
1. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE/SENSOR.
2. CONTRACTOR SHALL VERIFY AND FIELD MEASURE RADIATION TO PROVIDE WALL TO WALL RADIATION AND ACCOUNT FOR MOUNTING REQUIREMENTS.
3. RADIATION SHALL BE PEDESTAL MOUNTED WITH BOTTOM INLET/OUTLET.
4. CONTRACTOR SHALL COORDINATE FINISH WITH ARCHITECT.

COIL SCHEDULE - WATER

SYMBOL	SERVICE	SIZE L x H (IN.)	CFM	EAT		LAT	TOTAL MBH	A.P.D. IN. W.C.	EWT °F	LWT °F	GPM	W.P.D. FT. HEAD	MANUFACTURER	MODEL	REMARKS
				°FDB	°FWB	°FDB									
HC-1	CORRIDOR 1101	80x30	12,895	55	55	95	570	0.9	180	150	37.6	5.4	DAIKIN	5WH0902A	
HC-2	FIELDHOUSE 1001	50x50	19,000	55	55	105	1,053	0.8	180	150	69.3	6.9	DAIKIN	5WH1003A	
HC-3	FIELDHOUSE 1001	50x50	19,000	55	55	105	1,053	0.8	180	150	69.3	6.9	DAIKIN	5WH1003A	

CONDENSING UNIT SCHEDULE

SYMBOL	SERVICE	NOMINAL DESIGN TONS	REFRIGERANT	AMBIENT TEMP. °F	MINIMUM AMBIENT TEMP. °F	ELECTRICAL					MANUFACTURER	MODEL	REMARKS
						VOLT-PHASE	MCA	MOCP AMPS	DISCONNECT	CONTROLLER/STARTER			
									BY (NOTE A)	BY (NOTE A)			
CU-1	CRU-1	2	R-410a	95	-10°	208-1	18.0	30	EC	MFR	MITSUBISHI	PEAD	NOTES 1,2,3,4
CU-2	CRU-2	1	R-410a	95	-10°	208-1	13.0	15	EC	MFR	MITSUBISHI	PEAD	NOTES 1,2,3,4
CU-3	CRU-3	2	R-410a	95	-10°	208-1	18.0	30	EC	MFR	MITSUBISHI	PEAD	NOTES 1,2,3,4
CU-4	CRU-4	2	R-410a	95	-10°	208-1	18.0	30	EC	MFR	MITSUBISHI	PEAD	NOTES 1,2,3,4

NOTES:
1. REFER TO SPECIFICATION SECTION 23 62 13.
2. CONTRACTOR SHALL PROVIDE ASSOCIATED COMPUTER ROOM UNIT FROM THE SAME MANUFACTURER AS CONDENSING UNIT.
3. UNIT SHALL BE PROVIDED WITH WIND BAFFLE TO OPERATE UNIT AT -10°
4. CONTRACTOR SHALL VERIFY WITH MANUFACTURER FOR REQUIRED AMOUNT OF REFRIGERANT PIPING CIRCUITS AND PIPE.

BUILT UP TAB SCHEDULE

AREA SERVED	COOLING			HEATING COIL				SENSOR TYPE (NOTE 4)	REMARKS
	DAMPER	COOLING MAX.	MIN.	COIL	DAMPER	HEATING CFM	MIN. ZONE CO2 SETPOINT (NOTE 2)		
FIELDHOUSE 1001	MOD-4	41,260	1,185	HC-2	MOD-2	19,000	1,185	1,220	1	NOTES 1
COMPETITION 1000	MOD-5	41,260	1,185	HC-3	MOD-3	19,000	1,185	1,220	1	NOTES 1
CORRIDOR 1101	MOD-1	26,750	520	HC-1	MOD-1	12,895	520	1,630	1	NOTES 1

NOTES:
1. SENSOR TYPES: 1 - SENSOR ONLY.
2. THIS VALUE SHOULD BE ADDED TO THE AMBIENT CO2 LEVEL TO DETERMINE THE ZONE CO2 SETPOINT.

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M5.00

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TERMINAL AIR BOX SCHEDULE - SINGLE DUCT REHEAT

SYMBOL TAB	AREA SERVED	CFM COOLING MAX.	CFM HEATING MAX.	CFM MIN.	HEATING COIL (NOTES 5 & 6) EAT °F	LAT °F	EWT °F	MAX. GPM	MIN. INLET SIZE (IN.)	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL	REMARKS
101	CONCESSIONS 1002	280	280	110	55	100	180	0.9	6	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
102	WOMEN'S TOILET 1111 & MEN'S TOILET 1112	375	375	80	55	105	180	1.4	6	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
103	VISITOR'S LOCKER ROOM - MEN'S 1003	400	120	80	55	98	180	0.5	6	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
104	VISITOR'S LOCKER ROOM - WOMEN'S 1004	400	120	80	55	98	180	0.5	6	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
105	TRAINING 1005	3,060	1,400	1,400	55	88	180	3.3	24x16	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
106	OFFICE 1007	225	85	70	55	100	180	0.5	5	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
107	OFFICIAL'S LOCKER ROOM 1009 & STORAGE 1008	180	100	70	55	86	180	0.5	5	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
108	EXAM 1006	50	50	50	55	86	140	0.5	4	TAB-D	2	KRUEGER	LMHS	NOTES 1, 2
109	FIRST FLOOR CORRIDOR - A	580	355	355	55	95	180	1.0	8	TAB-A	1	KRUEGER	LMHS	NOTES 1, 2
110	ELECTRICAL CLOSET	50	-	50	-	-	-	-	4	TAB-C	2	KRUEGER	LMHS	NOTES 1, 2
111	WOMEN'S LOCKER ROOM 1011	665	450	145	55	100	180	1.5	8	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
112	LAUNDRY 1012	875	175	175	55	86	140	0.5	9	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
113	MEN'S LOCKER ROOM 1013	820	350	175	55	95	180	1.0	9	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
114	STORAGE 1014	1,965	1,965	450	55	105	180	7.1	10	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
115	CONTROL ROOM 1102A	170	100	50	55	95	140	0.5	4	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
116	MEN'S TOILET 1103 & WOMEN'S TOILET 1104	320	110	80	55	95	180	0.5	6	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
117	FAMILY TOILET 1107	50	50	50	55	95	180	0.5	4	TAB-D	1	KRUEGER	LMHS	NOTES 1, 2
118	ELECTRICAL ROOM 1108A & EMER. ELEC 1108B	1,380	900	325	55	95	180	2.6	12	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
119	FIRST FLOOR CORRIDOR	270	270	270	55	86	180	0.6	5	TAB-D	1	KRUEGER	LMHS	NOTES 1, 2
201	2000 CONDITIONING	5,140	1,650	1,650	55	95	180	4.8	24x16	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
202	SECOND FLOOR CORRIDOR - A & STORAGE 2001A	255	155	155	55	86	180	0.5	5	TAB-A	1	KRUEGER	LMHS	NOTES 1, 2
203	MEN'S TOILET 2104 & WOMEN'S TOILET 2101	225	100	70	55	95	180	0.5	5	TAB-B	1	KRUEGER	LMHS	NOTES 1, 2
204	SUPPORT 2022, STORAGE 2023, & WOMEN'S COACHES LOCKER RM. 2024	270	175	70	55	95	140	0.5	6	TAB-A	1	KRUEGER	LMHS	NOTES 1, 2
205	PRESENTATION ROOM 2001	965	825	825	55	86	180	1.8	10	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
206	PRESENTATION ROOM 2002	965	825	825	55	86	180	1.8	10	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
207	MEN'S COACHES LOCKER ROOM 2025	460	235	235	55	95	140	0.7	7	TAB-A	1	KRUEGER	LMHS	NOTES 1, 2
208	SECOND FLOOR CORRIDOR - A2	280	175	175	55	98	140	0.5	4	TAB-A	1	KRUEGER	LMHS	NOTES 1, 2
209	RECRUITING 2008	340	205	205	55	86	180	0.5	6	TAB-A	2	KRUEGER	LMHS	NOTES 1, 2
210	TUTORING 2004	1,140	585	585	55	86	180	1.3	12	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
211	WORK ROOM 2006	260	70	70	55	86	180	0.5	5	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
212	OFFICE 2005	220	70	70	55	95	180	0.5	5	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
213	RECEPTION 2007	780	245	175	55	100	180	0.8	9	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
214	A.D OFFICE 2008	820	310	175	55	100	180	1.0	9	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
215	WOMEN'S SPORTS OFFICE 2009	300	90	80	55	97	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
216	CONFERENCE ROOM 2010	380	115	90	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
217	OFFICE 2011	195	70	70	55	95	180	0.5	5	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
218	OFFICE 2012 & 2013	390	140	80	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
219	OFFICE 2014 & 2015	390	140	80	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
220	OFFICE 2015 & 2016	390	140	80	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
221	OFFICE 2016 & 2017	390	140	80	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2
222	OFFICE 2018 & 2019	390	140	80	55	95	180	0.5	6	TAB-B	2	KRUEGER	LMHS	NOTES 1, 2

NOTES:
1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE.
4. SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
5. HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS.
6. HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST AND BALANCE & TEMPERATURE CONTROLS CONTRACTORS.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

SYMBOL	MAT'L	TYPE	MARGIN (NOTE 1)	INLET SIZE (INCH)	FACE SIZE (INCH)	VOLUME DAMPER REQ'D	FINISH	MANUFACTURER	MODEL	REMARKS
CD-1	STEEL	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	OMNI	FLUSH FACE PANEL
RG-1	STEEL	PERFORATED FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	PAR	DUCTED RETURN
RG-2	STEEL	PERFORATED FACE	LAY-IN	N/A	24x24	NO	WHITE	TITUS	PXP	FACE ONLY - NON DUCTED
RG-3	STEEL	PERFORATED FACE	LAY-IN	N/A	48x24	NO	WHITE	TITUS	PXP	FACE ONLY - NON DUCTED
SG-1	STEEL	DOUBLE DEFLECTION	1 1/4"	SEE DWG.	INLET +2	NO	WHITE	TITUS	300R	FRONT BLADES VERTICAL UNLESS NOTED OTHERWISE
SG-2	ALUMINUM	DRUM LOUVER	-	SEE DWG.	INLET +3 1/4"	YES	WHITE	TITUS	US-DL	
EG-1	STEEL	35° DEFLECTION	1 1/4"	SEE DWG.	INLET +2	NO	WHITE	TITUS	350R	
EG-2	STEEL	PERFORATED FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	PAR	
TG-1	STEEL	PERFORATED FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	PAR	DUCTED RETURN
TG-2	STEEL	35° DEFLECTION	1 1/4"	SEE DWG.	INLET +2	NO	WHITE	TITUS	350R	

NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED.

MOTOR OPERATED DAMPER SCHEDULE

SYMBOL	SERVICE	SIZE W x H (IN.)	CFM MAX.	CFM MIN.	OPPOSED OR PARALLEL BLADES	HORIZONTAL OR VERTICAL BLADES	INSULATED	ACTUATOR TYPE	ACTUATOR STYLE	POWER FAILURE POSITION	POSITIVE POSITION FEEDBACK	REMARKS
MOD-1	CORRIDOR 1101	80x30	26,750	12,895	PARALLEL	HORIZONTAL	NO	ELECTRIC	PROPORTIONAL	NORMALLY OPEN	NO	NOTE 1
MOD-2	FIELDHOUSE 1001	50x50	19,000	12,375	PARALLEL	HORIZONTAL	NO	ELECTRIC	PROPORTIONAL	NORMALLY OPEN	NO	NOTE 1
MOD-3	FIELDHOUSE 1001	50x50	19,000	12,375	PARALLEL	HORIZONTAL	NO	ELECTRIC	PROPORTIONAL	NORMALLY OPEN	NO	NOTE 1
MOD-4	FIELDHOUSE 1001	50x50	41,250	12,375	PARALLEL	HORIZONTAL	NO	ELECTRIC	PROPORTIONAL	NORMALLY OPEN	NO	NOTE 1
MOD-5	FIELDHOUSE 1001	50x50	41,250	12,375	PARALLEL	HORIZONTAL	NO	ELECTRIC	PROPORTIONAL	NORMALLY OPEN	NO	NOTE 1

NOTES:
1. COORDINATE DAMPER ACTUATOR LOCATION AND MOUNTING REQUIREMENTS WITH TEMPERATURE CONTROL CONTRACTOR.

DESTRATIFICATION FAN SCHEDULE

SYMBOL	CFM	MHP (NOTE E)	VOLT-PHASE	DISCONNECT BY (NOTE A)	CONTROLLER/STARTER BY (NOTE A)	CONTROLLER/STARTER CONTROL	MANUFACTURER	MODEL	REMARKS
DF-1	1200	1/8	120-1	EC	ATC	FSC-1	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-2	1200	1/8	120-1	EC	ATC	FSC-1	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-3	1200	1/8	120-1	EC	ATC	FSC-1	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-4	1200	1/8	120-1	EC	ATC	FSC-1	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-5	1200	1/8	120-1	EC	ATC	FSC-2	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-6	1200	1/8	120-1	EC	ATC	FSC-2	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-7	1200	1/8	120-1	EC	ATC	FSC-2	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-8	1200	1/8	120-1	EC	ATC	FSC-2	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-9	1200	1/8	120-1	EC	ATC	FSC-2	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-10	1200	1/8	120-1	EC	ATC	FSC-3	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-11	1200	1/8	120-1	EC	ATC	FSC-3	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-12	1200	1/8	120-1	EC	ATC	FSC-3	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-13	1200	1/8	120-1	EC	ATC	FSC-3	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-14	1200	1/8	120-1	EC	ATC	FSC-4	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-15	1200	1/8	120-1	EC	ATC	FSC-4	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-16	1200	1/8	120-1	EC	ATC	FSC-4	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-17	1200	1/8	120-1	EC	ATC	FSC-4	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5
DF-18	1200	1/8	120-1	EC	ATC	FSC-4	ZOO FANS	H60	NOTES 1, 2, 3, 4, 5

NOTES:
1. REFER TO 3/M7.03 FOR CONTROL DIAGRAM.
2. PROVIDE WITH VARIABLE SPEED CONTROLLER, SEE PLANS FOR LOCATION.
3. PROVIDE WITH ADDITIONAL 12' STABILIZATION TETHER GRIPPLE.
4. PROVIDE WITH EXHAUST SAFETY GRILL.
5. PROVIDE WHITE COLORED OPTION,

ROOFTOP AIR HANDLING UNIT SCHEDULE - GAS/ELECTRIC

SYMBOL (NOTE 9)		RTU-1	RTU-2	RTU-3	RTU-4	RTU-5
SERVICE		FIRST LEVEL & SECOND LEVEL	FIELDHOUSE	FIELDHOUSE	FIELDHOUSE	LOBBY
SUPPLY FAN						
	CFM	24,870	27,500	27,500	27,500	28,770
	MINIMUM CFM	9,215	8,790	8,790	8,790	13,620
	EXTERNAL STATIC PRESSURE	3.00	2.50	2.50	2.50	3.00
	FILTER LOADING STATIC PRESSURE (NOTE 3)	1.25	1.25	1.25	1.25	1.25
	TYPE	DWDI AF	DWDI AF	DWDI AF	DWDI AF	DWDI AF
	CONTROL	VFD	VFD	VFD	VFD	VFD
	FAN RPM (NOTE D)	1,175	1,389	1,389	1,389	1,082
	BHP (NOTE E)	34.82	37.38	37.38	37.38	43.16
	MHP (NOTE E)	40	50.0	50.0	50.0	50.0
EXHAUST FAN						
	CFM	16,610	26,125	26,125	26,125	24,430
	MINIMUM CFM	9,215	8,790	8,790	8,790	13,620
	EXTERNAL STATIC PRESSURE	1.50	1.00	1.00	1.00	1.00
	TYPE	SWSI AF	SWSI AF	SWSI AF	SWSI AF	SWSI AF
	CONTROL	VFD	VFD	VFD	VFD	VFD
	FAN RPM (NOTE D)	565	671	671	671	638
	BHP (NOTE E)	5.88	9.69	9.69	9.69	8.38
	MHP (NOTE E)	7.5	15.0	15.0	15.0	10.0
OUTSIDE AIR						
	HIGH MINIMUM OA CFM	8,260	8,790	8,790	8,790	5,920
	LOW MINIMUM OA CFM	-	790	790	790	790
	EAT °F DB COOLING	95	87	87	87	87
	EAT °F WB COOLING	78	67.7	67.7	67.7	67.7
	EAT °F DB HEATING	-10	-10	-10	-10	-10
	EAT °F WB HEATING	-10	-10	-10	-10	-10
HEATING - GAS						
	HEATING CFM	12,425	12,670	12,670	12,670	14,225
	MINIMUM EFFICIENCY AFUE	80	80	80	80	80
	MINIMUM OUTPUT MBH	873	890	890	890	1000
	MINIMUM TURDOWN	20:1	20:1	20:1	20:1	20:1
	GAS PRESSURE IN. W.C.	5"-0.5 PSI	5"-0.5 PSI	5"-0.5 PSI	5"-0.5 PSI	5"-0.5 PSI
COOLING COIL - DX						
	EAT °F DB	81	78.4	78.4	78.4	76.8
	EAT °F WB	69	65.3	65.3	65.3	64.3
	MAX. LAT °F DB (NOTE 1)	55	55	55	55	55
	LAT °F WB (NOTE 1)	55	55	55	55	55
	TOTAL MBH	1,196	981	981	981	960
	AMBIENT TEMPERATURE °F	95	87	87	87	87
	MAX. A.P.D. IN. W.C.	0.61	0.81	0.81	0.81	0.59
	REFRIGERANT	R410A	R410A	R410A	R410A	R410A
	MINIMUM EFFICIENCY EER	10.1	9.5	9.5	9.5	9.5
	MINIMUM EFFICIENCY IEER	13.5	13.2	13.2	13.2	13.2
	CIRCUITING	DUAL/INTERLACED	DUAL/INTERLACED	DUAL/INTERLACED	DUAL/INTERLACED	DUAL/INTERLACED
FILTER						
	TYPE - SUPPLY PRE-FILTER	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
	SUPPLY PRE-FILTER VELOCITY	444.1	491.1	491.1	491.1	513.8
	MAX. A.P.D. IN. W.C. SUPPLY PRE FILTER CLEAN/DIRTY	0.24/0.5	0.31/0.5	0.31/0.5	0.31/0.5	0.32/0.5
	FINAL FILTER TYPE	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
	FINAL FILTER VELOCITY	444.1	491.1	491.1	491.1	513.8
	MAX. A.P.D. IN. W.C. FINAL FILTER CLEAN/DIRTY	0.55/0.75	0.61/0.75	0.61/0.75	0.61/0.75	0.67/0.75
ROOF CURB (NOTE F)		NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4
ELECTRICAL						
	VOLT-PHASE	460-3	460-3	460-3	460-3	460-3
	MCA	248.20	246.90	246.90	246.90	233.0
	MOCP AMPS	250	300	300	300	250
	DISCONNECT BY (NOTE A)	MFR	MFR	MFR	MFR	MFR
	DISCONNECT TYPE (NOTE B)	NF	NF	NF	NF	NF
	CONTROLLER/STARTER BY (NOTE A)	MFR	MFR	MFR	MFR	MFR
	CONTROLLER/STARTER TYPE (NOTE C)	MICROPROCESSOR CONTROLLER	MICROPROCESSOR CONTROLLER	MICROPROCESSOR CONTROLLER	MICROPROCESSOR CONTROLLER	MICROPROCESSOR CONTROLLER
	SCCR	10 KAIC	10 KAIC	10 KAIC	10 KAIC	10 KAIC
MANUFACTURER		DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NUMBER		RPS110D	RPS090D	RPS090D	RPS090D	RPS090D
REMARKS		NOTE 2, 6, 7	NOTE 2, 6, 7	NOTE 2, 6, 7	NOTE 2, 6, 7	NOTE 2, 6, 7

NOTES:
1. LAT LISTED IS AT DISCHARGE OF RTU. COOLING COIL SELECTION SHALL TAKE SUPPLY FAN MOTOR HEAT REJECTION TO THE AIRSTREAM INTO ACCOUNT.
2. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
3. FILTER LOADING STATIC PRESSURE INCLUDES 0.5" FOR PRE-FILTER LOADING AND 0.75" FOR FINAL FILTER LOADING. INTERNAL PRESSURE DROP SHALL CARRY PRESSURE DROP THROUGH CLEAN FILTERS ONLY. FILTER LOADING STATIC PRESSURE SHALL BE INCLUDED IN ADDITION TO THE EXTERNAL STATIC PRESSURE LISTED ABOVE FOR FAN SELECTION.
4. VIBRATION ISOLATING TYPE ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER. CURB SUPPLY AND RETURN PLENUM DIVIDER TO BE COORDINATED PRIOR TO ORDERING.
5. PROVIDE WITH A SINGLE POINT POWER CONNECTION.
6. COORDINATE THE SYMBOL NUMBER FOR USE IN EQUIPMENT TAGS, CONTROLS AND AS-BUILT DRAWINGS WITH THE OWNER.
7. RTU SHALL BE PROVIDED WITH HOT GAS BYPASS CAPABILITY FOR DEHUMIDIFICATION.

DUCT SILENCER SCHEDULE

SYMBOL	SERVICE	DIM. WxH (IN.)	LENGTH (IN.)	CFM	VELOCITY	MAX. S.P. DROP IN. W.C. (NOTE 1)	63	125	250	500	1000	2000	4000	8000	MANUFACTURER	MODEL	REMARKS
							ACOUSTICAL PERFORMANCE AT +1000 FPM – MINIMUM DYNAMIC INSERTION LOSS IN DB – OCTAVE BAND CENTER FREQUENCY										
DS-1	RTU-1 RETURN	52x30	5/M4.02	16,610	1,533	0.17	15	20	27	45	47	30	21	21	VIBRO ACOUSTICS	CUSTOM	NOTE 1, 2, 3, 4, 6
DS-2	RTU-1 SUPPLY	20x12	5/M4.02	1,965	1,179	0.15	12	21	41	49	51	43	35	29	VIBRO ACOUSTICS	CUSTOM	NOTE 1, 2, 3, 4, 6
DS-3	RTU-1 SUPPLY	56x28	5/M4.02	22,905	2,104	0.33	12	29	40	50	50	37	23	19	VIBRO ACOUSTICS	CUSTOM	NOTE 1, 2, 3, 4, 6
DS-4	RTU-5 SUPPLY	44x42	5/M4.02	28,770	2,242	0.30	11	18	19	26	34	32	23	22	VIBRO ACOUSTICS	CUSTOM	NOTE 1, 2, 3, 4
DS-5	RTU-5 RETURN	50x40	5/M4.02	24,430	1,759	0.15	8	14	14	23	28	28	21	19	VIBRO ACOUSTICS	CUSTOM	NOTE 1, 2, 3, 4
DS-6	FIELDHOUSE SUPPLY	50x50	144	19,000	1,094	0.29	13	24	50	53	55	30	25	18	VIBRO ACOUSTICS	EXRD-XV-FX	NOTE 1, 2, 3, 4
DS-7	FIELDHOUSE SUPPLY	50x50	144	19,000	1,094	0.29	13	24	50	53	55	30	25	18	VIBRO ACOUSTICS	EXRD-XV-FX	NOTE 1, 2, 3, 4
DS-8	FIELDHOUSE SUPPLY	75x69	144	41,250	1,148	0.28	13	24	50	50	50	29	21	18	VIBRO ACOUSTICS	RD-XV-FX	NOTE 1, 2, 3, 4
DS-9	FIELDHOUSE SUPPLY	75x69	144	41,250	1,148	0.28	13	24	50	50	50	29	21	18	VIBRO ACOUSTICS	RD-XV-FX	NOTE 1, 2, 3, 4
DS-10	RTU-2 RETURN	76x30	5/M4.02	26,125	1,650	0.07	8	18	34	47	40	30	30	19	VIBRO ACOUSTICS	EXRED-XV-FX	NOTE 1, 2, 3, 4, 5
DS-11	RTU-3 RETURN	76x30	5/M4.02	26,125	1,650	0.07	8	18	34	47	40	30	30	19	VIBRO ACOUSTICS	EXRED-XV-FX	NOTE 1, 2, 3, 4, 5
DS-12	RTU-4 RETURN	76x30	5/M4.02	26,125	1,650	0.07	8	18	34	47	40	30	30	19	VIBRO ACOUSTICS	EXRED-XV-FX	NOTE 1, 2, 3, 4, 5

NOTES:
1. PRESSURE DROP VALUES LISTED ARE PER ASTM E477-99 TEST PROCEDURE AND DO NOT INCLUDE SYSTEM EFFECTS
2. WITH FIBERGLASS CLOTH SEPARATING MEDIA FROM AIRSTREAM
3. CONTRACTOR/SILENCER MANUFACTURER SHALL PROVIDE ACOUSTICAL CALCULATIONS WITH PE STAMP FOR BREAKOUT/ AIRBORNE NOISE TO CERTIFY NC-30 IN THE SPACE.
4. FOR NON BASIS OF DESIGN PRODUCTS SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE THE REQUIRED ACOUSTICAL PERFORMANCE.
5. CASING TO BE HTL EQUIVALENT TO 16 GAUGE DUCT WALL TO CONTROL BREAKOUT.
6. CASING TO BE HTL EQUIVALENT TO 8 GAUGE DUCT WALL TO CONTROL BREAKOUT.

CABINET HEATER SCHEDULE - HOT WATER

SYMBOL	SERVICE	TYPE	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	MAX. W.P.D. FT. HEAD	CONTROL	CABINET H	CABINET W	CABINET D	ELECTRICAL FAN HP	VOLT/ PHASE	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	CONTROLLER/ STARTER TYPE	MANUFACTURER	MODEL	REMARKS
CAB-1	STAIR 1118	HORIZONTAL RECESSED	370	34.6	2.3	180	150	1.4	1/M7.01	25"	61-3/4"	9-3/4"	0.05	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-006	NOTE 1 & 2
CAB-2	VESTIBULE 1117	HORIZONTAL RECESSED	140	13.0	1.0	180	150	0.7	1/M7.01	25"	38-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-002	NOTE 1 & 2
CAB-3	MEN'S LOCKER ROOM 1013	HORIZONTAL RECESSED	195	21	1.4	180	150	1.4	1/M7.01	25"	43-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-003	NOTE 1 & 2
CAB-4	WOMEN'S LOCKER ROOM 1011	HORIZONTAL RECESSED	195	21	1.4	180	150	1.4	1/M7.01	25"	43-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-003	NOTE 1 & 2
CAB-5	MEN'S TOILET 1112	HORIZONTAL RECESSED	195	21	1.4	180	150	1.4	1/M7.01	25"	43-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-003	NOTE 1 & 2
CAB-6	WOMEN'S TOILET 1111	HORIZONTAL RECESSED	195	21	1.4	180	150	1.4	1/M7.01	25"	43-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-003	NOTE 1 & 2
CAB-7	VESTIBULE 1100	HORIZONTAL RECESSED	370	34.6	2.3	180	150	1.4	1/M7.01	25"	61-3/4"	9-3/4"	0.05	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-006	NOTE 1 & 2
CAB-8	VESTIBULE 1100	HORIZONTAL RECESSED	370	34.6	2.3	180	150	1.4	1/M7.01	25"	61-3/4"	9-3/4"	0.05	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-006	NOTE 1 & 2
CAB-9	VESTIBULE	HORIZONTAL RECESSED	195	21	1.4	180	150	1.4	1/M7.01	25"	43-3/4"	9-3/4"	0.03	120-1	MFR	NF	MFR	T-STAT	MODINE	CW-003	NOTE 1 & 2

NOTES:
1. COORDINATE COLOR SELECTION WITH ARCHITECT.
2. UNIT SELECTED IS BASED ON 2 ROW COIL AND LOW FAN SPEED.
3. UNIT SHALL HAVE BOTTOM OUTLET AND BOTTOM INLET.

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DKA PROJECT NO: 14-004

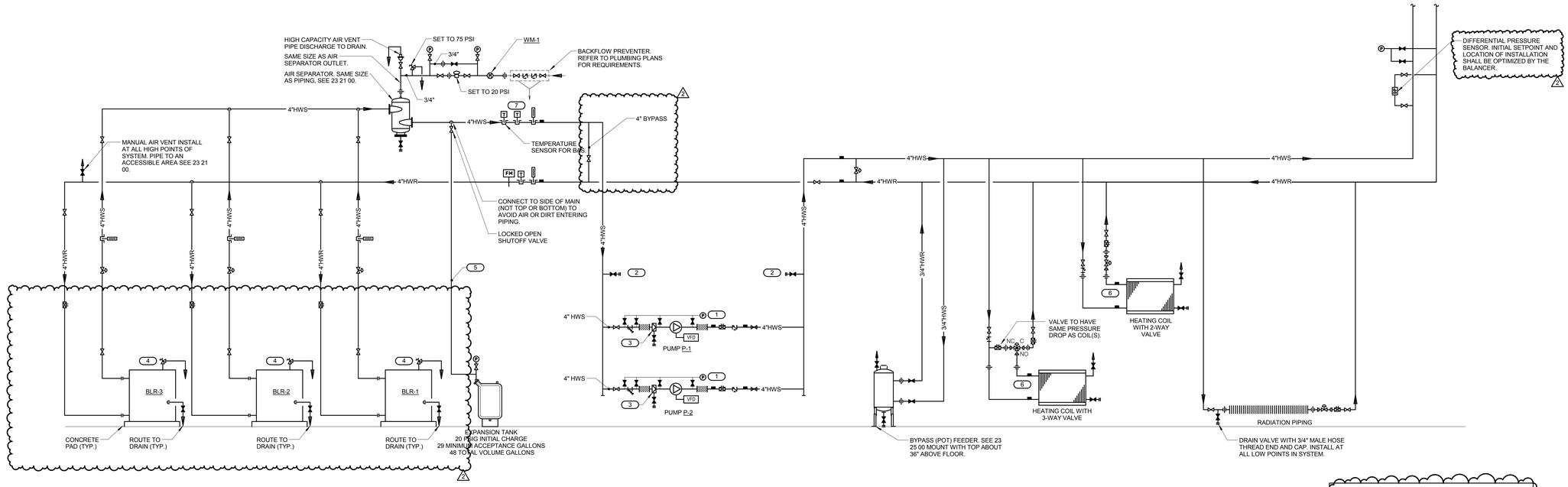
KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M5.01



HEATING WATER FLOW DIAGRAM SYMBOL LIST

SYMBOL:	DESCRIPTION:
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
	DIRECTION OF FLOW IN PIPE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CONTROL VALVE (THREE-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER

KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. PROVIDE 2 1/2" OR LARGER CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM, IF CHEMICAL CLEANING IS NOT USED.
3. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
4. INSTALL SAFETY RELIEF VALVE PROVIDED BY BOILER MANUFACTURER. PIPE TO DRAIN. SUPPORT SOLIDLY AND INSTALL FC-2 TO AVOID STRAIN ON THE RELIEF VALVE.
5. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
6. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
7. TEMPERATURE SENSOR PROVIDED BY BOILER MANUFACTURER, WIRED TO BOILER/BOILER CONTROL PANEL.

1 HEATING WATER FLOW DIAGRAM

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SHEET TITLE:
HEATING WATER FLOW DIAGRAM

SHEET NUMBER:
M6.00

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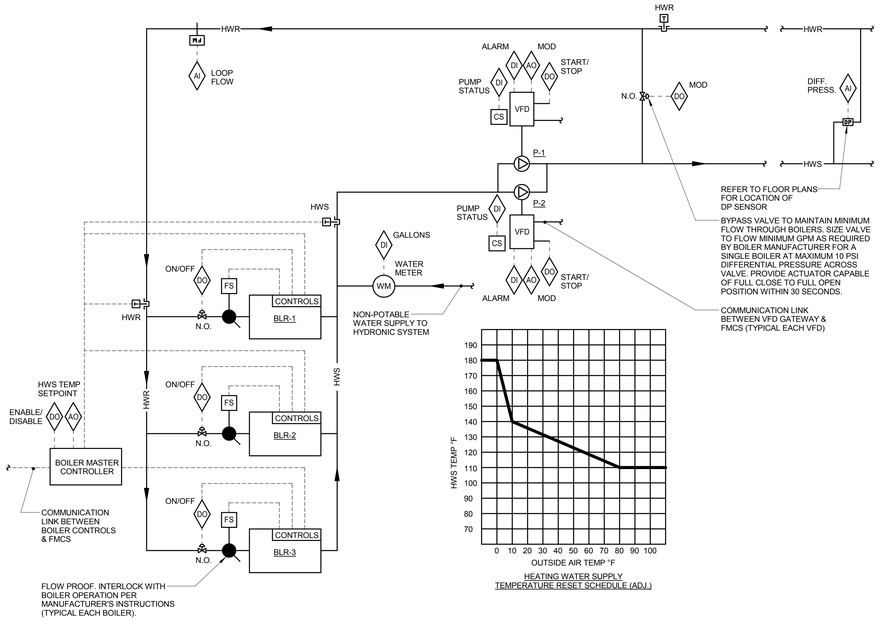
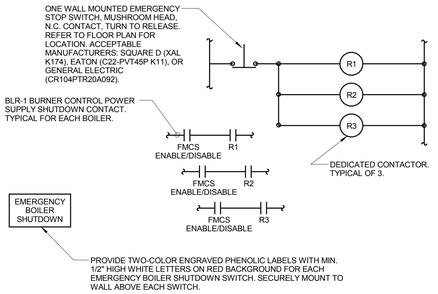




GENERAL CONTROL NOTES:
1. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
2. EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
3. ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT.
4. MODULATING SIGNALS SHALL BE DISPAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
5. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DUCT STATIC PRESSURE SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES FAN SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
6. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DIFFERENTIAL PRESSURE OF ANY PUMPED WATER SYSTEM (E.G. HEATING HOT WATER) SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES PUMP SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
7. ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
8. EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
9. WIRE THE CONTROL SIGNAL FROM THE ASSOCIATED ROOFTOP UNIT CONTROL PANEL TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH THE SEQUENCE OF OPERATION. PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
10. EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH ROOFTOP UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.
11. EXTEND 24 VOLT POWER FROM CONTROL POWER SHOWN ON FLOOR PLANS TO ALL TERMINAL AIR BOX CONTROLLERS JUNCTION BOX. PROVIDE ALL WIRING, SUPPORTS, FUSING SPACE, TOGGLE SWITCHES, AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
12. ELEMENT LENGTHS FOR BOTH MIXED AIR TEMP SENSORS AND LOW LIMIT TEMP SWITCHES SHALL BE MINIMUM 1 LINEAR FOOT PER SQUARE FOOT OF COIL SURFACE AREA. PROVIDE MULTIPLE SENSORS AND SWITCHES AS NEEDED TO ACHIEVE REQUIRED ELEMENT LENGTHS. LOCATE RESET SWITCHES MAX. 6'-6" ABOVE ADJACENT STANDING SURFACE (I.E. ROOF, PLATFORM OR FLOOR) SO THE RESET SWITCH CAN BE CYCLED WITHOUT THE NEED FOR A LADDER.
13. TO PREVENT GENERATOR OVERLOADING, PROGRAM A STAGGERED START TIME FOR ALL MECHANICAL EQUIPMENT THAT IS CONTROLLED BY FMCS TO INCLUDE, BUT NOT LIMITED TO, AIR HANDLERS, PUMPS AND EXHAUST FANS. THE FIRST EQUIPMENT SHALL START 2 MINUTES (ADJ.) FROM THE TIME THE FMCS RECEIVES THE SIGNAL THAT THE TRANSFER SWITCH CHANGED TO EMERGENCY POWER SOURCE WITH ALL EQUIPMENT BEING ENERGIZED WITHIN A 20 MINUTE (ADJ.) TIME SPAN. COORDINATE ORDER OF EQUIPMENT STAGING WITH OWNER'S REPRESENTATIVE.
14. CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
15. PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.

ALARMS, INTERLOCKS, AND SAFETIES:
TCC SHALL PROVIDE EMERGENCY BOILER SHUTDOWN SWITCH AT EACH BOILER ROOM EXIT MEETING CSD-1 REQUIREMENTS. ACTIVATION OF ANY SWITCH SHALL INTERRUPT POWER TO ALL BOILER CONTROLS VIA BOILER SAFETY SHUTDOWN CONTACTS.

EMERGENCY BOILER SHUTDOWN

SEQUENCE OF OPERATION:
HEATING WATER BOILERS SHALL HAVE UNIT MOUNTED CONTROLS AND A BOILER MANAGEMENT CONTROL PANEL PROVIDED BY THE BOILER MANUFACTURER. TCC SHALL INTERFACE WITH BOILER MANUFACTURER CONTROLS AS DESCRIBED IN THIS SEQUENCE OF OPERATION. BOILER MANUFACTURER SHALL PROVIDE A GATEWAY INTERFACE CARD THAT IS COMPATIBLE WITH THE COMMUNICATION PROTOCOL OF THE FMCS NETWORK. SEQUENCES OF OPERATION FOR BOTH THE BOILER CONTROL SYSTEM AND FMCS SHALL BE AS FOLLOWS:

BOILER CONTROL PANEL SEQUENCE OF OPERATION:
WHEN THE FMCS ENABLES THE BOILER MASTER CONTROLLER TO RUN, THE BOILER MASTER CONTROLLER SHALL ENABLE THE LEAD BOILER, OPEN THE ASSOCIATED TWO-POSITION ISOLATION VALVE, AND ENERGIZE THE LEAD PUMP.

THE BOILER MANAGEMENT CONTROL PANEL SHALL STAGE ON ADDITIONAL BOILERS AND SHALL MODULATE BURNER FIRING RATE AS REQUIRED TO MAINTAIN THE SYSTEM HEATING WATER SUPPLY TEMPERATURE PER THE HEATING WATER SUPPLY TEMPERATURE RESET SCHEDULE. THE BOILER MANAGEMENT CONTROL PANEL SHALL MAINTAIN THE TEMPERATURE WITHIN +/- 5°F (ADJ.) OF THE TEMPERATURE IN THE SCHEDULE. THE BOILER MANAGEMENT CONTROL PANEL CAN STAGE ON MULTIPLE BOILERS AT PART LOAD TO INCREASE THE EFFICIENCY OF THE PLANT. BOILER MANAGEMENT CONTROL PANEL SHALL START/STOP BOILERS ON A FIRST ON/FIRST OFF BASIS TO EQUALIZE RUN TIME BETWEEN BOILERS. TWO-POSITION ISOLATION VALVE OPERATION SHALL BE CONTROLLED BY THE BOILER CONTROL PANEL OF THE RESPECTIVE BOILER THEY SERVE.

THE FOLLOWING BOILER CONTROL PANEL POINTS (TO INCLUDE BUT NOT LIMITED TO) SHALL BE CONTROLLED BY THE FMCS AND DISPLAYED ON THE OPERATOR WORKSTATION GRAPHICAL SCREEN:
- BOILER SYSTEM STATUS: ENABLE/DISABLE
- BOILER OUTLET WATER TEMPERATURE SETPOINT: [°F]

THE FOLLOWING BOILER CONTROL PANEL POINTS (TO INCLUDE BUT NOT LIMITED TO) SHALL BE MONITORED BY THE FMCS AND DISPLAYED ON THE OPERATOR WORKSTATION GRAPHICAL SCREEN:
- BOILER STATUS: DISABLED/STANDBY/MANUAL OPERATION/REMOTE OPERATION/AUTO/FAULT
- FIRING RATE INPUT: [0 - 100%]
- FIRING RATE OUTPUT: [0 - 100%]
- ACTIVE SETPOINT: [°F]
- SYSTEM HWR TEMP: [°F]
- SYSTEM HWS TEMP: [°F]
- FAULT MESSAGE DISPLAY CODE: [NUMERICAL]
- RUN CYCLES: [NUMERICAL]
- RUN HOURS: [NUMERICAL]

ALARMS, INTERLOCKS & SAFETIES:
BOILER CONTROLS SHALL BE PROGRAMMED TO MAINTAIN CONSTANT SETPOINT (LAST KNOWN VALUE) IN THE EVENT THE FMCS NETWORK COMMUNICATION SIGNAL IS LOST.

FMCS SEQUENCE OF OPERATION:
FMCS SHALL OPERATE HEATING WATER SYSTEM 24 HOURS/DAY, 365 DAYS/YEAR.

ONLY ONE HEATING WATER PUMP SHALL RUN AT TIME. THE SECOND HEATING WATER PUMP IS FULLY REDUNDANT. FMCS SHALL AUTOMATICALLY ROTATE THE LEAD HEATING WATER PUMP ONCE/WEEK (10:00 AM EACH TUESDAY, ADJ.) TO EQUALIZE RUN TIME BETWEEN PUMPS. PROVIDE GRAPHICAL BUTTON ON OPERATOR WORKSTATION GRAPHICAL SCREEN TO ALLOW FMCS OPERATOR TO SWITCH LEAD PUMP TO NEXT ROTATION IN THE EVENT THE CURRENT LEAD PUMP REQUIRES MAINTENANCE.

FMCS SHALL MODULATE SIGNAL TO LEAD PUMP VFD AS REQUIRED TO MAINTAIN HEATING WATER DIFFERENTIAL PRESSURE (DP) SETPOINT. FMCS SHALL RESET HEATING WATER DIFFERENTIAL PRESSURE (DP) SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE HEATING WATER VALVE 95% (ADJ.) OPEN. FMCS SHALL UTILIZE COMMAND TO ALL HEATING WATER VALVE POSITIONS TO RESET THE HEATING WATER DIFFERENTIAL PRESSURE. IN NO EVENT SHALL THE FMCS DECREASE THE HEATING WATER (DP) SETPOINT BELOW 4 PSI (ADJ.) OR ABOVE 10 PSI (ADJ.).

ALL CONTROLLED AND MONITORED POINTS LISTED IN THE BOILER CONTROL PANEL SEQUENCE ABOVE SHALL BE DISPLAYED ON THE OPERATOR WORKSTATION GRAPHICAL SCREEN.

MINIMUM HEATING WATER FLOW CONTROL:
FMCS SHALL MODULATE THE HEATING WATER BYPASS CONTROL VALVE AS REQUIRED TO MAINTAIN MINIMUM FLOW THROUGH EACH OPERATIONAL BOILER. TCC SHALL VERIFY THE MINIMUM FLOW LIMIT OF EACH BOILER WITH EQUIPMENT MANUFACTURER. ADEQUATE FLOW THROUGH EACH BOILER SHALL BE DETERMINED BY THE FLOW METER IN THE HEATING WATER RETURN PIPING.

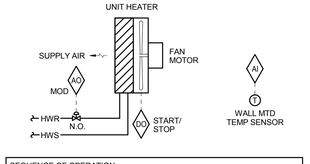
ALARMS, INTERLOCKS & SAFETIES:
TCC SHALL COORDINATE ALL SAFETY AND INTERLOCK REQUIREMENTS WITH BOILER MANUFACTURER. TCC SHALL COORDINATE AND PROVIDE THE INSTALLATION AND WIRING OF BOILER WATER DIFFERENTIAL PRESSURE/FLOW SWITCHES AND OTHER COMPONENTS PROVIDED WITH THE BOILER AS REQUIRED FOR PROPER OPERATION. TCC SHALL PROVIDE AND TERMINATE ALL SAFETY AND INTERLOCK WIRING WITH BOILER CONTROL PANELS AS REQUIRED.

FMCS SHALL AUTOMATICALLY ENABLE THE LAG HEATING WATER PUMP TO RUN IN THE EVENT THE LEAD HEATING WATER PUMP FAILS TO OPERATE.

TCC SHALL VERIFY THE ACCEPTABLE TEMPERATURE RANGES THE BOILERS ARE APPROVED TO OPERATE AT AS PUBLISHED IN THE BOILER MANUFACTURER'S LITERATURE. IF THE TEMPERATURE RANGES LISTED IN THE MANUFACTURER'S LITERATURE DIFFER FROM THOSE IN THIS SEQUENCE OF OPERATION, CONTACT PROJECT ARCHITECT/ENGINEER FOR DIRECTION.

AN ALARM SHALL BE INDICATED TO THE FMCS OPERATOR WORKSTATION IN THE EVENT ANY OF THE FOLLOWING OCCUR:
- HWR TEMPERATURE DROPS BELOW 50°F (ADJ.) FOR 5 MINUTES (ADJ.) (AUTO RESET).
- HWS TEMPERATURE RISES MORE THAN 10°F (ADJ.) ABOVE SETPOINT (AUTO RESET).
- HWS TEMPERATURE DROPS MORE THAN 10°F (ADJ.) BELOW SETPOINT (AUTO RESET).
- AN ALARM IS INDICATED AT ANY BOILER ALARM PANEL.
- AN ALARM IS INDICATED AT ANY PUMP VFD
- SHOULD THE FMCS COMMAND THE LEAD HEATING WATER PUMP TO OPERATE AND THE PUMP FAILS TO DO SO AS DETERMINED BY THE VFD STATUS, AN ALARM SHALL BE INDICATED AT THE FMCS OPERATOR WORKSTATION AND THE LAG HW PUMP SHALL AUTOMATICALLY START.
- A HEATING WATER PUMP IS COMMANDED TO RUN AND CURRENT STATUS SENSOR INDICATES INSUFFICIENT CURRENT FLOW.
- WHEN 2 GALLONS (ADJ.) OF HYDRONIC SYSTEM MAKE-UP WATER FLOWS THROUGH METER AFTER THE LAST ACKNOWLEDGEMENT. WHEN ALARM IS MANUALLY ACKNOWLEDGED, THE FMCS SHALL RE-ZERO THE COUNTER.

1 CONDENSING HEATING WATER BOILER CONTROL - VARIABLE PRIMARY
NO SCALE



SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE AND CYCLE THE UNIT FAN TOGETHER TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.).

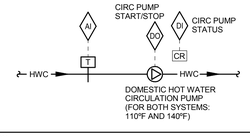
WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.) AND THE UNIT FAN SHALL RUN CONTINUOUSLY.

IN LOCATIONS WITH MULTIPLE UNIT HEATERS, STAGE THE UNIT HEATERS ON/OFF BY SETTING INDIVIDUAL TEMPERATURE SENSORS 2°F APART.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

2 UNIT HEATER CONTROL
NO SCALE



SEQUENCE OF OPERATION:
FMCS SHALL MONITOR THE TEMPERATURE AT THE 110°F CIRCULATION PUMP. THE CIRCULATION PUMP SHALL TURN ON WHEN THE TEMPERATURE FALLS BELOW 102°F (ADJ.) AND SHALL TURN OFF WHEN THE TEMPERATURE RISES ABOVE 107°F (ADJ.)

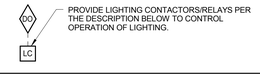
FMCS SHALL MONITOR THE TEMPERATURE AT THE 140°F CIRCULATION PUMP. THE CIRCULATION PUMP SHALL TURN ON WHEN THE TEMPERATURE FALLS BELOW 132°F (ADJ.) AND SHALL TURN OFF WHEN THE TEMPERATURE RISES ABOVE 137°F (ADJ.)

FMCS SHALL MONITOR AND RECORD THE FOLLOWING INFORMATION FROM THE CIRCULATION PUMPS:
- TOTAL RUN TIME ON EACH PUMP SHOWN IN THE DIAGRAM. COORDINATE FINAL RECORDING, DISPLAY, AND ARCHIVING REQUIREMENTS WITH THE OWNER.

OPERATOR WORKSTATION SHALL DISPLAY PUMP CURRENT STATUS AND ALLOW OPERATOR TO ENABLE/DISABLE THE CIRCULATION PUMP FOR EITHER THE 110°F OR 140°F SYSTEM.

ALARMS, INTERLOCKS & SAFETIES:
FMCS SHALL SHALL BE GENERATED AT THE OPERATOR WORKSTATION IN THE EVENT THE FMCS COMMANDS A CIRCULATING PUMP TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

3 DOMESTIC HOT WATER CIRCULATING PUMP CONTROL
NO SCALE

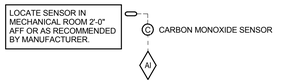


LIGHTING CONTROL:
- FMCS SHALL OPEN/CLOSE THE FOLLOWING LIGHTING ZONE RELAYS BASED ON A TIME OF DAY (TOD) SCHEDULE:
- TOTAL OF (5) LIGHTING ZONES
  - EXTERIOR SITE LIGHTING - NORTH - RELAY LOCATED IN ROOM 1108A
  - EXTERIOR SITE LIGHTING - SOUTH - RELAY LOCATED IN ROOM 1114
  - FIRST FLOOR CORRIDOR LIGHTING - RELAY LOCATED IN ROOM 1114
  - MAIN CONCOURSE LIGHTING - RELAY LOCATED IN ROOM 1108A
  - SECOND FLOOR CORRIDOR LIGHTING - RELAY LOCATED IN ROOM 2023

PROVIDE A TIME OF DAY SCHEDULE AND GRAPHICS FOR EACH LIGHTING ZONE. THE SCHEDULE SHALL BE ADJUSTABLE THROUGH THE FMCS.

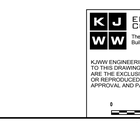
FMCS SHALL CONTROL ALL THE LIGHTING ZONES LISTED ABOVE, REFER TO THE ELECTRICAL DRAWINGS AND SPECIFICATION SECTION 26 09 23 FOR ADDITIONAL INFORMATION.

4 SITE LIGHTING CONTROLS
NO SCALE



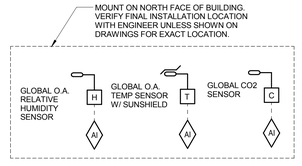
SEQUENCE OF OPERATION:
SEND AN ALARM TO THE OPERATOR INTERFACE IF THE CARBON MONOXIDE LEVELS EXCEED 50 PPM.

5 CARBON MONOXIDE MONITORING
NO SCALE



ALARMS, INTERLOCKS & SAFETIES:
FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR:
- HIGH WATER CONDITION
- THE CONTROLLER INDICATE AN ALARM CONDITION.
- THE PUMP IS OPERATIONAL

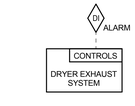
6 SUMP PUMP MONITORING
NO SCALE



SEQUENCE OF OPERATION:
PROVIDE GLOBAL O.A. DRY-BULB TEMPERATURE, GLOBAL CARBON DIOXIDE AND GLOBAL RELATIVE HUMIDITY TRANSMITTERS.

GLOBAL SENSORS SHALL CONTINUOUSLY UPDATE FMCS FOR USE IN CONTROLLING MECHANICAL EQUIPMENT AS REQUIRED IN SEQUENCES OF OPERATION.

7 GLOBAL REFERENCE POINTS
NO SCALE



ALARMS, INTERLOCKS & SAFETIES:
- FMCS SHALL CONNECT TO THE ALARM CONTACT PROVIDED WITH THE DRYER EXHAUST SYSTEM AND INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT AN ALARM IS INDICATED AT THE SYSTEM CONTROLLER.

8 LAUNDRY EXHAUST SYSTEM MONITORING
NO SCALE

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
CONTROL DIAGRAMS

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Illinois Design Firm Registration #184-006973

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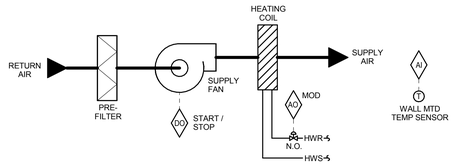
REFERENCE SCALE IN INCHES
0 1 2 3

SHEET NUMBER:
M7.00



SEQUENCE OF OPERATION:

THE CABINET HEATER SHALL BE FURNISHED WITH A UNIT MOUNTED FAN SPEED SELECTOR SWITCH (OFF-HIGH-MED-LOW). THE UNIT SHALL MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.).

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJ.), THE DDC CONTROLLER SHALL START THE FAN AND MODULATE THE CONTROL VALVE. IF THE VALVE MODULATES TO THE FULLY CLOSED POSITION THE FAN SHALL STOP.

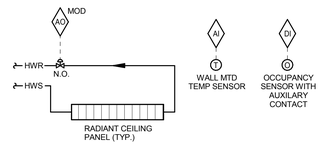
WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 40°F (ADJ.), THE DDC CONTROLLER SHALL MODULATE THE CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 70°C (ADJ.) AND THE UNIT FAN SHALL RUN CONTINUOUSLY.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

1 CABINET HEATER CONTROL - HYDRONIC

NO SCALE



SEQUENCE OF OPERATION:

OCCUPIED CONTROL:
- WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 60°F (ADJ.), THE FMCS SHALL MODULATE THE RADIATION CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF 70°F (ADJ.).
- WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 60°F (ADJ.), CONTROL VALVE SHALL BE FULLY CLOSED.

UNOCCUPIED CONTROL:
- RADIATION CONTROL SHALL BE FOLLOW OCCUPIED CONTROL WITH THE FOLLOWING EXCEPTIONS:
- FMCS SHALL MAINTAIN AN UNOCCUPIED TEMPERATURE DEADBAND OF 15°F (ADJ.) FROM THE OCCUPIED SPACE TEMPERATURE SETPOINT AFTER A 30 MIN. (ADJ.) TIME DELAY ONCE THE SPACE ENTERS UNOCCUPIED MODE AS DETERMINED BY THE SPACE OCCUPANCY SENSOR.

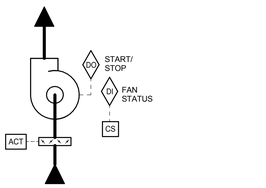
ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

2 STAND ALONE RADIATION CONTROL

NO SCALE

NOTES:
1. TYPICAL FOR ALL RADIATION NOT CONTROLLED BY TERMINAL AIR BOX SEQUENCE.



SEQUENCE OF OPERATION:
EXHAUST FAN SHALL BE INTERLOCKED TO RUN CONTINUOUSLY WHEN RESPECTIVE AHU IS OPERATING.

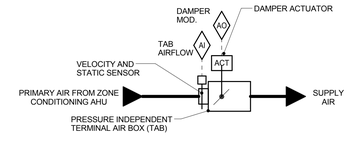
2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

ALARMS, INTERLOCKS AND SAFETIES:

AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

3 EXHAUST FAN CONTROL - AHU INTERLOCK

NO SCALE



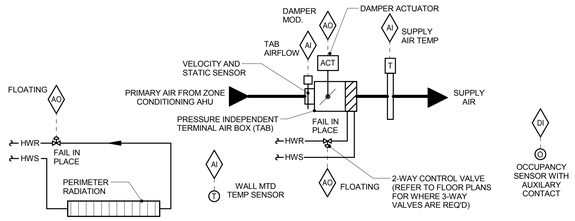
SEQUENCE OF OPERATION:
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN CONSTANT SUPPLY AIRFLOW TO THE ROOM.
- SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

4 TAB CONTROL CONSTANT VOLUME W/ COOLING ONLY - TAB-C

12" = 1'-0"



SEQUENCE OF OPERATION:

OCCUPIED CONTROL:
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER, TAB HEATING WATER REHEAT COIL, AND PERIMETER RADIATION CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE AND PERIMETER RADIATION CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL CONTROL VALVE AND PERIMETER RADIATION CONTROL VALVE SHALL BE CLOSED.
- THE TAB CONTROLLER SHALL ENABLE PERIMETER RADIATION CONTROLS WHEN THE O.A. TEMP DROPS BELOW 35°F (ADJ.). WHEN THE O.A. TEMP RISES ABOVE 40°F (ADJ.) PERIMETER RADIATION CONTROLS SHALL BE DISABLED.
- AS SPACE TEMP DROPS BELOW SETPOINT AND THE TAB DAMPER IS AT MINIMUM SCHEDULED CFM, TAB CONTROLLER SHALL MODULATE THE PERIMETER RADIATION CONTROL VALVE OPEN AS REQUIRED TO MAINTAIN SPACE TEMP.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 15°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

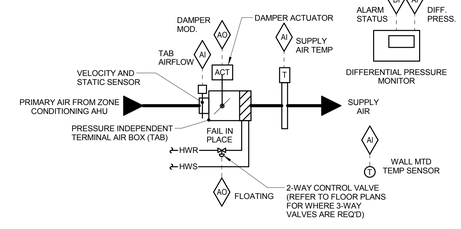
UNOCCUPIED CONTROL:
- FMCS TAB CONTROL SHALL FOLLOW OCCUPIED CONTROL WITH THE FOLLOWING EXCEPTIONS:
- FMCS TAB CONTROLLER SHALL MAINTAIN AN UNOCCUPIED TEMPERATURE DEADBAND OF 15°F (ADJ.) FROM THE SPACE TEMPERATURE SETPOINT AFTER A 30 MIN. (ADJ.) TIME DELAY ONCE THE SPACE ENTERS UNOCCUPIED MODE AS DETERMINED BY THE SPACE OCCUPANCY SENSOR.
- THE TAB MINIMUM SHALL BE RESET TO 0 CFM WHEN IN UNOCCUPIED MODE.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

5 TAB CONTROL W/ HOT WATER REHEAT AND PERIMETER RADIANT HEAT - TAB-B

12" = 1'-0"



GENERAL:

- THE TAB SERVES A LAUNDRY ROOM INCLUDING TWO DRYERS WITH A SINGLE VARIABLE SPEED DRYER EXHAUST FAN. THE DRYER EXHAUST FAN IS PROVIDED WITH ITS OWN CONTROLLER AND SENSORS WHICH CONTROL ITS OPERATION.

NORMAL SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN CONSTANT SUPPLY AIRFLOW TO THE ROOM.
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

TAB ROOM PRESSURE SEQUENCE OF OPERATION:

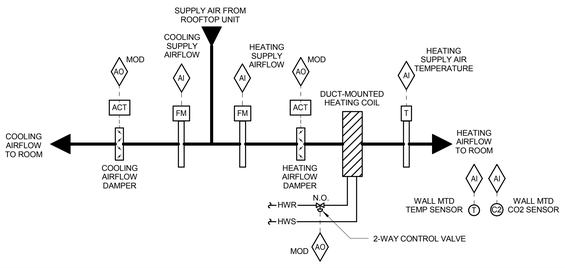
- THE FOLLOWING SEQUENCE SHALL OVERRIDE THE SEQUENCE ABOVE:
- AT ALL TIMES THE FMCS SHALL MONITOR THE ROOM PRESSURE RELATIVE TO THE ADJACENT CORRIDOR BASED ON THE SIGNAL FROM A SPACE DIFFERENTIAL PRESSURE SENSOR. IF AT ANY POINT THE SPACE PRESSURE IS LOWER THAN THE MINIMUM PRESSURE SETPOINT OF -0.010 IN. W.G. PRESSURE RELATIVE TO THE ADJACENT CORRIDOR THE FMCS SHALL MODULATE THE TAB DAMPER TO MAINTAIN THE SPACE PRESSURE SETPOINT.
- IF THE INCREASED SUPPLY CFM REQUIRED TO MAINTAIN THE MINIMUM SPACE PRESSURE SETPOINT CAUSES A FALL IN SPACE TEMPERATURE THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE.
- FMCS SHALL DISPLAY THE PRESSURE VALUE ON THE TAB GRAPHICAL SCREEN AT THE OPERATOR WORKSTATION.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- DIFFERENTIAL PRESSURE MONITOR SHALL INDICATE A LOCAL ALARM IN THE EVENT THE ROOM PRESSURE IS LESS THAN -0.010 (REFER TO DRAWINGS FOR CORRECT PRESSURE RELATIONSHIP) IN. W.G. RELATIVE TO THE ADJACENT CORRIDOR/ROOM FOR MORE THAN 1 MINUTE (ADJ.).

8 TAB CONTROL W/ HOT WATER REHEAT AND ROOM PRESSURE TAB CONTROL - TAB-E

12" = 1'-0"



SEQUENCE OF OPERATION:

- FMCS SHALL MODULATE THE HEATING AND COOLING DAMPERS AND THE HW REHEAT COIL CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS.
- AT FULL COOLING, THE COOLING DAMPER SHALL BE OPEN TO MAXIMUM CFM POSITION. THE HEATING DAMPER AND THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE COOLING DAMPER SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES THE MINIMUM SCHEDULED CFM AS MEASURED AT THE COOLING SUPPLY AIRFLOW MEASURING STATION. THE HEATING DAMPER AND THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE COOLING DAMPER SHALL MODULATE TO THE 100% CLOSED POSITION WHILE THE HEATING DAMPER SIMULTANEOUSLY MODULATES OPEN TO THE MINIMUM SCHEDULED CFM AS MEASURED AT THE HEATING SUPPLY AIRFLOW MEASURING STATION. THE REHEAT COIL CONTROL VALVE SHALL THEN MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 15°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE HEATING DAMPER SHALL OPEN TO MAINTAIN SETPOINT UNTIL THE AIRFLOW REACHES ITS MAXIMUM HEATING SETTING AS MEASURED AT THE HEATING SUPPLY AIRFLOW MEASURING STATION. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE. THE COOLING DAMPER SHALL BE CLOSED.

CO2 SENSOR-BASED DEMAND CONTROL VENTILATION:

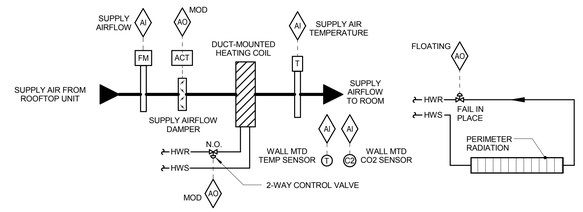
DURING OCCUPIED HOURS, THE FMCS SHALL RESET THE ZONE MINIMUM AIRFLOW SETTING BASED ON THE ZONE CO2 SENSOR INPUT SIGNAL:
- WHEN THE ZONE CO2 SENSOR READS [OUTSIDE AIR] PPM (ADJ.) PLUS 300 PPM (ADJ.) OR LESS, THE TAB MINIMUM AIRFLOW SETTING SHALL BE EQUAL TO THE MINIMUM SPECIFIED IN THE TAB SCHEDULE.
- WHEN THE ZONE CO2 SENSOR IS AT THE CO2 SETPOINT IN THE TAB SCHEDULE OR HIGHER, THE TAB MINIMUM AIRFLOW SETTING SHALL BE EQUAL TO THE TAB MAXIMUM AIRFLOW SETTING SPECIFIED IN THE TAB SCHEDULE.
- WHEN THE ZONE CO2 LEVEL IS BETWEEN [AMBIENT CO2 LEVEL] PPM + 300 PPM (ADJ.) AND THE ZONE CO2 SETPOINT, THE TAB MINIMUM AIRFLOW SHALL VARY PROPORTIONALLY BETWEEN THE SCHEDULED TAB MINIMUM AIRFLOW AND MAXIMUM AIRFLOW.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE CO2 CONCENTRATION IS ABOVE THE SCHEDULED SETPOINT FOR MORE THAN 60 MINUTES (ADJ.)

6 TAB CONTROL W/ HOT WATER REHEAT - TAB-A

NO SCALE



SEQUENCE OF OPERATION:

- FMCS SHALL MODULATE THE DAMPER, HW REHEAT COIL CONTROL VALVE AND PERIMETER RADIATION CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS.
- AT FULL COOLING, THE DAMPER SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE AND PERIMETER RADIATION CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE DAMPER SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES THE MINIMUM SCHEDULED CFM AS MEASURED AT THE SUPPLY AIRFLOW MEASURING STATION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- THE CONTROLLER SHALL ENABLE PERIMETER RADIATION CONTROLS WHEN THE O.A. TEMP DROPS BELOW 35°F (ADJ.). WHEN THE O.A. TEMP RISES ABOVE 40°F (ADJ.) PERIMETER RADIATION CONTROLS SHALL BE DISABLED.
- AS SPACE TEMP DROPS BELOW SETPOINT AND THE DAMPER IS AT MINIMUM SCHEDULED CFM, THE CONTROLLER SHALL MODULATE THE PERIMETER RADIATION CONTROL VALVE OPEN AS REQUIRED TO MAINTAIN SPACE TEMP.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 15°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL THE AIRFLOW REACHES ITS MAXIMUM HEATING SETTING AS MEASURED AT THE SUPPLY AIRFLOW MEASURING STATION. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.

CO2 SENSOR-BASED DEMAND CONTROL VENTILATION:

DURING OCCUPIED HOURS, THE FMCS SHALL RESET THE ZONE MINIMUM AIRFLOW SETTING BASED ON THE ZONE CO2 SENSOR INPUT SIGNAL:
- WHEN THE ZONE CO2 SENSOR READS [OUSTIDE AIR CO2 LEVEL] PPM (ADJ.) PLUS 300 PPM (ADJ.) OR LESS, THE TAB MINIMUM AIRFLOW SETTING SHALL BE EQUAL TO THE MINIMUM SPECIFIED IN THE TAB SCHEDULE.
- WHEN THE ZONE CO2 SENSOR IS AT THE CO2 SETPOINT IN THE TAB SCHEDULE OR HIGHER, THE TAB MINIMUM AIRFLOW SETTING SHALL BE EQUAL TO THE TAB MAXIMUM AIRFLOW SETTING SPECIFIED IN THE TAB SCHEDULE.
- WHEN THE ZONE CO2 LEVEL IS BETWEEN [AMBIENT CO2 LEVEL] PPM + 300 PPM (ADJ.) AND THE ZONE CO2 SETPOINT, THE TAB MINIMUM AIRFLOW SHALL VARY PROPORTIONALLY BETWEEN THE SCHEDULED TAB MINIMUM AIRFLOW AND MAXIMUM AIRFLOW.

ALARMS, INTERLOCKS & SAFETIES:

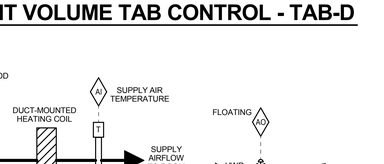
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE CO2 CONCENTRATION IS ABOVE THE SCHEDULED SETPOINT FOR MORE THAN 60 MINUTES (ADJ.)

7 CONSTANT VOLUME TAB CONTROL - TAB-D

NO SCALE

9 FIELDHOUSE ZONE CONTROL

NO SCALE



SEQUENCE OF OPERATION:

OCCUPIED CONTROL:
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN CONSTANT SUPPLY AIRFLOW TO THE ROOM.
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

UNOCCUPIED CONTROL:
- FMCS TAB CONTROL SHALL FOLLOW OCCUPIED CONTROL WITH THE FOLLOWING EXCEPTIONS:
- FMCS TAB CONTROLLER SHALL MAINTAIN AN UNOCCUPIED TEMPERATURE DEADBAND OF 15°F (ADJ.) FROM THE SPACE TEMPERATURE SETPOINT AFTER A 30 MIN. (ADJ.) TIME DELAY ONCE THE SPACE ENTERS UNOCCUPIED MODE AS DETERMINED BY THE SPACE OCCUPANCY SENSOR.
- THE TAB MINIMUM SHALL BE RESET TO 0 CFM WHEN IN UNOCCUPIED MODE.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

10 LOBBY ZONE CONTROL

NO SCALE

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/1/15
BID PACKAGE 2
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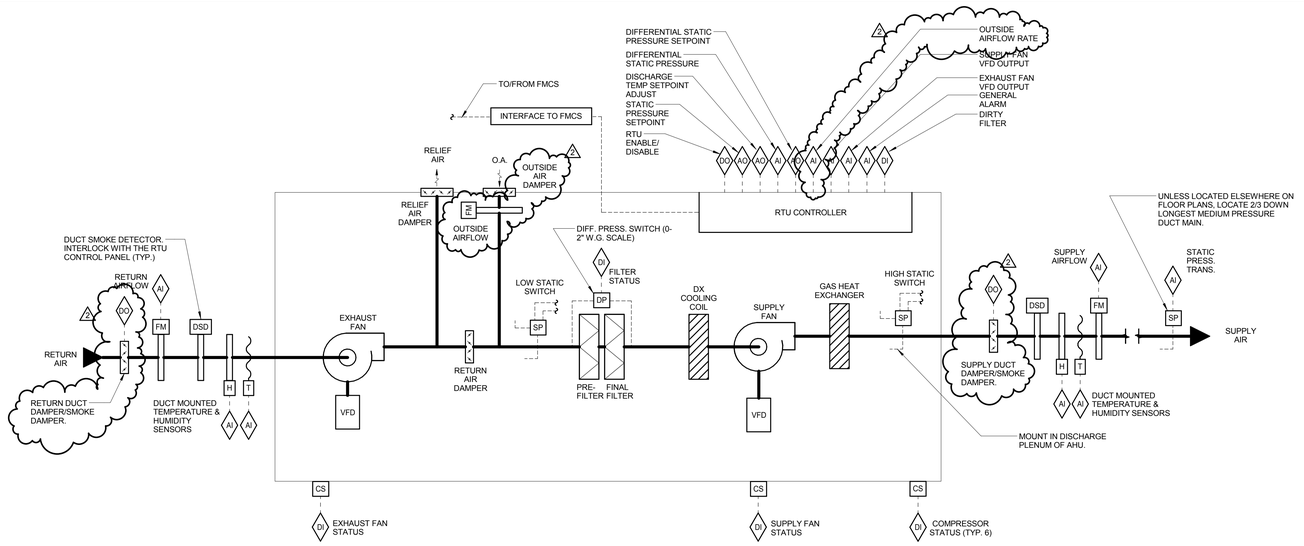
SHEET TITLE:
CONTROL DIAGRAMS

SHEET NUMBER:
M7.01



RTU REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR DEWPOINT [°F]
- GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- SUPPLY AIRFLOW [CFM]
- SUPPLY AIR TEMP (SAT) [°F]
- SUPPLY AIR TEMP SETPOINT [°F]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- RETURN AIRFLOW [CFM]
- RETURN AIR TEMP (RAT) [°F]
- RETURN AIR RELATIVE HUMIDITY [%]
- SUPPLY DUCT STATIC PRESSURE SETPOINT [INCHES W.G.]
- SUPPLY DUCT STATIC PRESSURE [INCHES W.G.]
- SUPPLY FAN VFD OUTPUT [% FULL SPEED]
- RETURN FAN VFD OUTPUT [% FULL SPEED]
- OUTSIDE AIR DAMPER POSITION [% OPEN]
- RETURN AIR DAMPER POSITION [% OPEN]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

ONCE PER MONTH, THE DDC FMCS SHALL RECORD THE LARGEST AHU AIRFLOW WHICH OCCURED DURING THAT MONTH. THE DATE, TIME, OUTSIDE AIR TEMP (AND ALL OTHER VALUES LISTED ABOVE) THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).

ROOFTOP UNIT REPORT GENERATION

ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU. COORDINATE WITH THE SUBMITTED AND ACCEPTED EQUIPMENT MANUFACTURER FOR CONTROLS PROVIDED BY THE UNIT MANUFACTURER AND CONTROLS REQUIRED TO BE PROVIDED BY THE CONTRACTOR.

SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW:

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SUPPLY FAN SHALL BE ENABLED TO RUN AFTER A 30 SEC (ADJ.) DELAY TO ALLOW RETURN AND SUPPLY SMOKE DAMPERS TO OPEN.
- WHEN THE SUPPLY FAN HAS STARTED THE UNIT EXHAUST FAN AND INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE:

- MORNING START-UP MODE: MONDAY THROUGH FRIDAY - 5:00AM-6:00AM (ADJ.); SATURDAY THROUGH SUNDAY - 7:00AM-8:00AM (ADJ.)
- OCCUPIED MODE: MONDAY THROUGH FRIDAY - 6:00AM-9:00PM (ADJ.); SATURDAY THROUGH SUNDAY - 8:00AM-6:00PM (ADJ.)
- UNOCCUPIED MODE: MONDAY THROUGH FRIDAY - 9:00PM-5:00AM (ADJ.); SATURDAY THROUGH SUNDAY - 6:00PM-7:00AM (ADJ.)

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER. RESET SUPPLY DUCT STATIC PRESSURE SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER OR DUCT MOTOR OPERATED DAMPER 95% (ADJ.) OPEN. FMCS SHALL UTILIZE COMMAND TO ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

EXHAUST FAN CONTROL:
EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO RETURN FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE RETURN FAN AIRFLOW SCHEDULE.

DEMAND CONTROL VENTILATION:
WHENEVER THE AIR HANDLING UNIT IS IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN. THE RETURN AIR DAMPER SHALL MODULATE TO MAINTAIN THE LARGER OF THE MINIMUM OUTSIDE AIR FLOW RATE AS MEASURED AT THE OUTSIDE AIRFLOW MEASURING STATION., AND THE FLOW RATE NEEDED TO SATISFY THE ECONOMIZER DISCHARGE AIR SEQUENCE. THE MINIMUM OUTSIDE AIR FLOW RATE SHALL BE RESET AS FOLLOWS:
- DURING OCCUPIED MODE, THE MINIMUM OA FLOW RATE SHALL NOT FALL BELOW THE AMOUNT LISTED IN THE AHU SCHEDULE.
- IF ANY DCV ZONE HAS A CO2 CONCENTRATION ABOVE ITS SCHEDULED SETPOINT AND THAT ZONE'S TAB MINIMUM FLOW IS RESET TO ITS MAXIMUM FLOW RATE, THE MINIMUM OA SETPOINT SHALL INCREASE UNTIL THAT ZONE CO2 SETPOINT IS SATISFIED OR UNTIL THE DESIGN OCCUPIED OUTSIDE AIR FLOW ON THE AHU SCHEDULE IS REACHED.
- IF THE CRITICAL ZONE'S CO2 CONCENTRATION DROPS BELOW THE SCHEDULED CO2 SETPOINT, THE MINIMUM OUTSIDE AIR RATE SHALL BE RESET LOWER UNTIL THE CO2 CONCENTRATION REACHES ITS SETPOINT OR UNTIL THE AHU OUTSIDE AIR FLOW RATE REACHES THE MINIMUM OA RATE IN AHU SCHEDULE.

DISCHARGE AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE 55°F (ADJ.). THE RTU CONTROLLER SHALL CONTROL THE UNIT COOLING AND HEATING COMPONENTS PER THE MANUFACTURER'S SEQUENCE OF OPERATIONS TO MAINTAIN THE DISCHARGE AIR SETPOINT.

DISCHARGE AIR TEMPERATURE RESET:
RESET DISCHARGE AIR TEMPERATURE BASED ON THE ZONE WITH THE GREATEST CALL FOR COOLING. RESET THE TEMPERATURE AS FOLLOWS:
- WHEN WORST CASE TAB OR DUCT MOTOR OPERATED DAMPER IS OPEN ABOVE 90% (ADJ.) FOR TEN MINUTES (ADJ.) THEN THE DISCHARGE AIR TEMPERATURE SHALL RAISE BY 1°F (ADJ.). THIS SHALL CONTINUE UNTIL RTU MAXIMUM DISCHARGE AIR TEMPERATURE OF 60°F (ADJ.) IS ACHIEVED.
- WHEN WORST CASE TAB OR DUCT MOTOR OPERATED DAMPER IS OPEN BELOW 80% (ADJ.) FOR TEN MINUTES (ADJ.) THEN THE DISCHARGE AIR TEMPERATURE SHALL DROP BY 1°F (ADJ.). THIS SHALL CONTINUE UNTIL RTU MINIMUM DISCHARGE AIR TEMPERATURE OF 55°F (ADJ.) IS ACHIEVED.
- THE MAXIMUM RETURN AIR HUMIDITY SETPOINT SHALL BE 60% (ADJ.) IF RETURN AIR HUMIDITY IS GREATER THAN SETPOINT, RESET DISCHARGE AIR TEMPERATURE TO 55°F UNTIL RETURN AIR HUMIDITY IS 5% LESS THAN MAXIMUM SETPOINT.

USER TOGGLE - STATIC PRESSURE AND DISCHARGE AIR TEMPERATURE RESETS:
PROVIDE USER WITH OPTION TO USE EITHER STATIC PRESSURE RESET OR DISCHARGE AIR TEMPERATURE RESET. ONLY ONE CONTROL OPTION SHALL BE USED AT A TIME. GRAPHIC ON AHU SCREEN SHALL ALLOW USER TO TOGGLE FROM EITHER TEMPERATURE OR STATIC PRESSURE RESET.

ECONOMIZER OPERATION:
THE RTU CONTROLLER SHALL ENABLE/DISABLE ECONOMIZER OPERATION AND CONTROL THE UNIT DURING ECONOMIZER OPERATION PER THE MANUFACTURER'S SEQUENCE OF OPERATIONS.

FIELDHOUSE RTU-2, 3 AND 4 STAGING:
ROOFTOP UNITS 2, 3 AND 4 SUPPLY AIR TO A COMMON DUCTWORK SYSTEM TO CONDITION 2 ZONES WITHIN THE FIELDHOUSE. STAGING OF THESE UNITS SHALL BE PER THE FOLLOWING SEQUENC OF OPERATION.
- THE FMCS SHALL ENABLE/DISABLE RTUS ON A FIRST ON/FIRST OFF BASIS TO EQUALIZE RUNTIME BETWEEN THE UNITS.
- A MINIMUM OF 1 RTU SHALL ALWAYS BE ENABLED. WHEN THE OPERATING UNIT(S) SUPPLY FAN VFD SPEED REACHES 55 HERTZ THE FMCS SHALL ENABLE AN ADDITIONAL RTU. WHEN AN ADDITIONAL RTU IS ENABLED THE FMCS SHALL MODULATE THE SUPPLY FAN SPEED OF THE OPERATING RTU(S) LOWER WHILE SIMULTANEOUSLY MODULATING THE SUPPLY FAN SPEED OF THE ADDITIONAL RTU HIGHER UNTIL THEY REACH THE SAME SPEED. AT THAT POINT THE FMCS SHALL MODULATE THE SUPPLY FAN SPEED OF ALL OPERATING UNITS SIMULTANEOUSLY TO MEET THE MAIN SEQUENC OF OPERATION ON THIS SHEET.
- WHILE SUPPLY FANS ARE MODULATING THE RETURN FANS FOR EACH UNIT SHALL OPERATE PER THE MAIN SEQUENCE OF OPERATION ON THIS SHEET.
- WHEN AN ADDITIONAL UNIT IS ENABLED THE DUCT STATIC PRESSURE SHALL BE IGNORED UNTIL ALL MODULATING SUPPLY FANS HAVE REACHED THE SAME SPEED AND ARE UNDER SIMULATNEOUS MODULATING CONTROL.
- WHEN THE VFD SPEED OF THE OPERTING UNITS REACHES 20 HERTZ AN OPERATING UNIT SHALL BE DISABLED. WHEN AN OPERATING UNIT IS DISABLED THE REMAINING ENABLED UNIT (S) SHALL OPERATE PER THE MAIN SEQUENCE OF OPERATING ON THIS SHEET.

ALARMS, INTERLOCKS, AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION THE RTU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE RTU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:
- LOW STATIC PRESSURE SWITCH INDICATES UNIT CABINET PRESSURE LESS THAN THE UNIT CASING DESIGN PRESSURE (CONFIRM PRESSURE SETPOINT WITH THE RTU MANUFACTURER).
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- THE SUPPLY FAN IS COMMANDED TO RUN AND CURRENT STATUS SENSOR INDICATES INSUFFICIENT CURRENT FLOW.
- THE EXHAUST FAN IS COMMANDED TO RUN AND CURRENT STATUS SENSOR INDICATES INSUFFICIENT CURRENT FLOW.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER RTU SHALL CONTINUE TO OPERATE:
- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR RETURN FAN VFD.
- DIFFERENTIAL PRESSURE SWITCH ACROSS THE COMBINATION FILTER BANK EXCEEDS 1.25 INCHES W.G. PLUS THE TOTAL OF THE INITIAL PRE AND FINAL FITLER PRESSURE DROPS (ADJ.)
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT.

WHENEVER RTU IS SHUTDOWN THE FMCS SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- SMPE AND REARM SMOKE DAMPERS SHALL CLOSE.

MORNING START-UP OPERATION:
- THE FMCS SHALL MEASURE EACH OF THE SPACE TEMPERATURES AND OUTSIDE AIR TEMPERATURE TO DETERMINE THE MINIMUM RUNTIME TO WARM THE SPACES TO THEIR SETPOINT.
- WHEN THE COMPUTED START TIME IS REACHED THE FMCS SHALL ENABLE THE RTU.
- RESET ALL SPACE TEMP SETPOINTS TO OCCUPIED SPACE TEMPERATURE SETPOINTS.
- THE RETURN AIR DAMPER SHALL BE OPEN AND THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL REMAIN CLOSED.

UN-OCCUPIED MODE OPERATION:
- RTU SHALL BE DISABLED. SUPPLY FAN AND RETURN FAN SHALL BE ENABLED TO OPERATE INTERMITTENTLY WHEN ANY SPACE TEMPERATURE DROPS BELOW 55°F (ADJ.) OR EXCEEDS 85°F (ADJ.). THE RTU SHALL TURN ON AND OPERATE UNTIL ALL SPACES EXCEED 65°F (ADJ.) OR DROP BELOW 75°F (ADJ.).
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON AHU GRAPHIC PAGE.

1 **ROOFTOP UNIT CONTROL: RTU-1 THROUGH RTU-5**
NO SCALE

RETURN FAN AIRFLOW SCHEDULE

SYSTEM	SUPPLY CFM	EXHAUST FANS	PRESSURIZATION CFM	REMARKS
RTU-1	24,870	EF-1 AND EF-2	1,420	NOTES 1,2,3
RTU-2,3,4	27,500	NONE	1,375	NOTES 1,2,3
RTU-5	28,770	EF-3	2,715	NOTES 1,2,3

NOTES:
1. RETURN FAN AIRFLOW SETPOINT SHALL BE THE SUPPLY FAN AIRFLOW (AS MEASURED BY THE AFMS) MINUS THE SUM OF THE EXHAUST FAN AIRFLOWS MINUS THE PRESSURIZATION CFM
2. FMCS SHALL DETERMINE THE OPERATIONAL STATUS OF EACH EXHAUST FAN VIA THE CURRENT SENSING RELAY TO DETERMINE WHETHER THE CFM ASSOCIATED WITH THAT FAN SHOULD BE INCLUDED IN THE RETURN FAN AIRFLOW CALCULATION.
3. EXHAUST FAN AIRFLOWS SHALL NOT BE THE CFM INDICATED ON THE FAN SCHEDULE, BUT SHALL BE THE AIRFLOW INDICATED IN THE FINAL TAB REPORT.

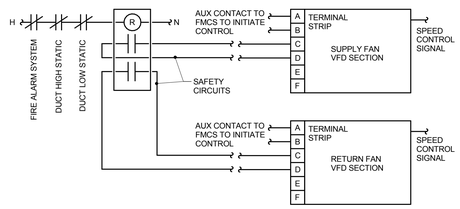
AHU OUTSIDE AIR FLOW RATE SCHEDULE

SYSTEM	HIGH MINIMUM OUTSIDE AIR FLOW RATE (CFM)	LOW MINIMUM OUTSIDE AIR FLOW RATE (CFM)
RTU-1	NOT APPLICABLE (NO CO2 ZONES)	#,###
RTU-2	#,###	#,###
RTU-3	#,###	#,###
RTU-4	#,###	#,###
RTU-5	#,###	#,###

FAN INTERLOCK SCHEDULE

SYSTEM	INTERLOCKED EXHAUST FANS	REMARKS
RTU-1	EF-1, EF-2	NOTE 1
RTU-5	EF-3	NOTE 1

NOTES:
1. INTERLOCK EXHAUST FAN OPERATION THROUGH THE FMCS WITH RESPECTIVE RTU IN ACCORDANCE WITH RTU SEQUENCE OF OPERATION.



SUPPLY & RETURN FAN VFD CONTROL

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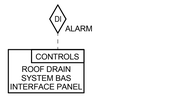
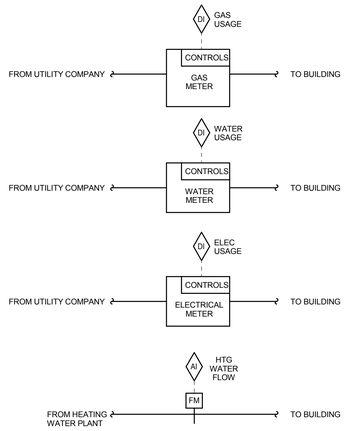


ALARMS, INTERLOCKS & SAFETIES:
FMCS SHALL CONNECT TO THE ALARM CONTACT AT THE BAS INTERFACE PANEL AND INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION WHEN AN ALARM IS GENERATED AT A ROOF DRAIN SENSOR.

1 SECONDARY ROOF DRAIN SENSOR MONITORING

12" = 1'-0"



SEQUENCE OF OPERATION:

GENERAL:
THE UTILITIES ARE METERED THROUGH THE BAS VIA THE FMCS.

UTILITY METERING CONTROL:

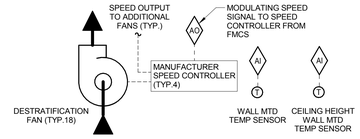
- GAS METERING: PROVIDE BAS CONNECTABLE METER PER THE DRAWINGS AND SPECIFICATIONS. CONNECT THE FMCS TO THE GAS METER TO PROVIDE GAS CONSUMPTION INFORMATION.
- WATER METERING: PROVIDE BAS CONNECTABLE METER PER THE DRAWINGS AND SPECIFICATIONS. CONNECT THE FMCS TO THE WATER METER TO PROVIDE WATER USAGE INFORMATION.
- ELECTRIC METERING: CONNECT THE FMCS TO THE ELECTRICAL METER FOR ELECTRICAL USAGE INFORMATION.
- HYDRONIC HEATING WATER METERING: PROVIDE ENERGY FLOW METER PER THE DRAWINGS AND SPECIFICATIONS TO CALCULATE HYDRONIC SYSTEM ENERGY USE. ALL ENERGY FLOW METERS SHALL BE MONITORED BY THE FMCS.

UTILITY METERING REPORT GENERATION:

- FMCS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:
  - DATE
  - TIME
  - GLOBAL OUTSIDE AIR TEMP. (°F)
  - GLOBAL OUTSIDE AIR RELATIVE HUMIDITY. (%)
  - GAS USE (THERMS)
  - WATER USE (GALLONS)
  - ELECTRICAL USE (KW)
  - HEATING SYSTEM LOAD (KW)
- THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR INTERFACE.
- ONCE PER MONTH, THE FMCS SHALL RECORD THE LARGEST GAS USE (IN KW), WATER USE (IN LITERS), AND ELECTRICAL USE (IN KW) WHICH OCCURRED DURING THAT MONTH. THE DATE AND TIME THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR INTERFACE THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN). THE HEATING SYSTEM LOADS ARE DESCRIBED UNDER THEIR SPECIFIC REPORT GENERATION DESCRIPTION.

2 UTILITY METERING CONTROL

NO SCALE



SEQUENCE OF OPERATION:
THE DESTRATIFICATION FANS SHALL BE INTERLOCKED TO OPERATE WHEN RTU-2, RTU-3, OR RTU-4 OPERATES.

ALL OF THE DESTRATIFICATION FANS OPERATING IN THE SOUTH FIELDHOUSE TEMPERATURE ZONE SHALL BE LINKED TO 2 SPEED CONTROLLERS AND THE DESTRATIFICATION FANS OPERATING IN THE NORTH FIELDHOUSE TEMPERATURE ZONE SHALL BE LINKE TO THE REMAINING 2 SPEED CONTROLLERS.

THE FMCS SHALL MONITOR THE TEMPERATURE DIFFERENCE BETWEEN THE CEILING HEIGHT TEMPERATURE SENSOR AND THE OCCUPIED SPACE HEIGHT TEMPERATURE SENSOR AND MODULATE THE OUTPUT SIGNAL TO THE MANUFACTURER SPEED CONTROLLERS, SINGLE OUTPUT TO THE SOUTH ZONE SET OF SPEED CONTROLLERS AND A SINGLE OUTPUT TO THE NORTH ZONE SET OF SPEED CONTROLLERS, TO MAINTAIN A MAXIMUM OF 2F (ADJ.) TEMPERATURE DIFFERENCE BETWEEN THE SENSORS.

THE DESTRATIFICATION FANS SHALL BE OFF IF THE FMCS SIGNAL TO THE SPEED CONTROLLERS IS LOST.

ALARMS
SEND AN ALARM TO THE OPERATOR INTERFACE IF THE TEMPERATURE DIFFERENCE IS MORE THAN 2F (ADJ.) FOR MORE THAN 30 MIN. (ADJ.)

3 DESTRATIFICATION FAN CONTROL

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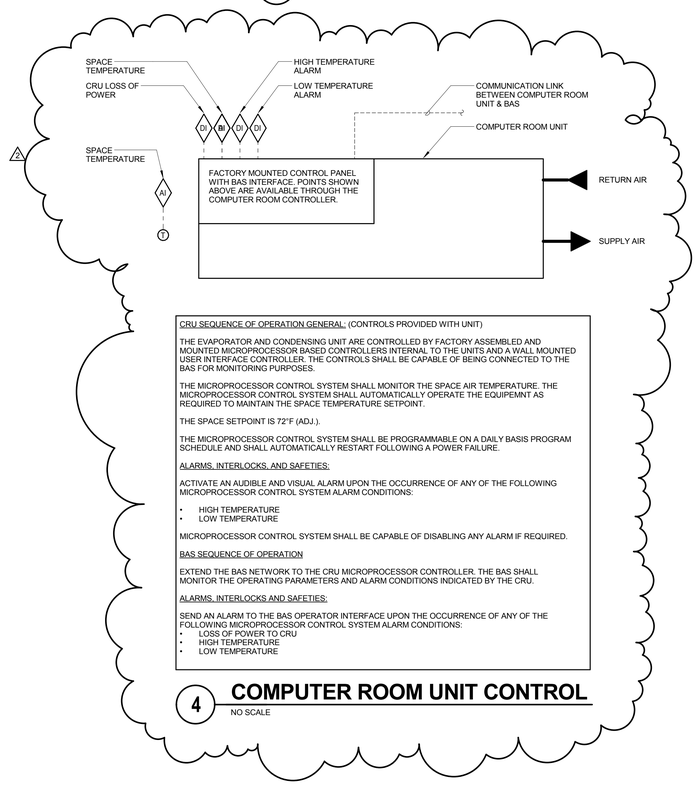

CRU SEQUENCE OF OPERATION GENERAL: (CONTROLS PROVIDED WITH UNIT)

THE EVAPORATOR AND CONDENSING UNIT ARE CONTROLLED BY FACTORY ASSEMBLED AND MOUNTED MICROPROCESSOR BASED CONTROLLERS INTERNAL TO THE UNITS AND A WALL MOUNTED USER INTERFACE CONTROLLER. THE CONTROLS SHALL BE CAPABLE OF BEING CONNECTED TO THE BAS FOR MONITORING PURPOSES.

THE MICROPROCESSOR CONTROL SYSTEM SHALL MONITOR THE SPACE AIR TEMPERATURE. THE MICROPROCESSOR CONTROL SYSTEM SHALL AUTOMATICALLY OPERATE THE EQUIPEMNT AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

THE SPACE SETPOINT IS 72°F (ADJ.).

THE MICROPROCESSOR CONTROL SYSTEM SHALL BE PROGRAMMABLE ON A DAILY BASIS PROGRAM SCHEDULE AND SHALL AUTOMATICALLY RESTART FOLLOWING A POWER FAILURE.

ALARMS, INTERLOCKS, AND SAFETIES:

ACTIVATE AN AUDIBLE AND VISUAL ALARM UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS:

- HIGH TEMPERATURE
- LOW TEMPERATURE

MICROPROCESSOR CONTROL SYSTEM SHALL BE CAPABLE OF DISABLING ANY ALARM IF REQUIRED.

BAS SEQUENCE OF OPERATION

EXTEND THE BAS NETWORK TO THE CRU MICROPROCESSOR CONTROLLER. THE BAS SHALL MONITOR THE OPERATING PARAMETERS AND ALARM CONDITIONS INDICATED BY THE CRU.

ALARMS, INTERLOCKS AND SAFETIES:

SEND AN ALARM TO THE BAS OPERATOR INTERFACE UPON THE OCCURRENCE OF ANY OF THE FOLLOWING MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS:

- LOSS OF POWER TO CRU
- HIGH TEMPERATURE
- LOW TEMPERATURE

4 COMPUTER ROOM UNIT CONTROL

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SHEET NUMBER:
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PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE DESCRIPTION	DOMESTIC CW (NOTE 3)	DOMESTIC HW (NOTE 3)	SANITARY (NOTE 3)	VENT (NOTE 3)	NOTES
WATER CLOSET	1"	-	4"	2"	(FLUSH VALVE)
URINAL	3/4"	-	2"	1 1/2"	(FLUSH VALVE - WASHDOWN)
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	NOTE 1 & 2
SINK	1/2"	1/2"	1 1/2"	1 1/2"	NOTE 1 & 2
MOP BASIN	3/4"	3/4"	3"	1 1/2"	-
SHOWER	1/2"	1/2"	2"	1 1/2"	NOTE 2
FLOOR DRAIN	-	-	4"	2"	-
DRINKING FOUNTAIN	1/2"	-	1 1/2"	1 1/4"	NOTE 1 & 2
HOSE BIBB	3/4"	-	-	-	-

NOTES:
1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
2. 1/2" CW AND HW APPLIES TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
3. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

PLUMBING GENERAL NOTES

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
4. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
6. CAULK ALL PIPE THROUGH FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
7. WHERE PIPES ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH SECTION 23 05 29. SEAL SLEEVE PERIMETER TO BE WATER-TIGHT.

FIRE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 AND 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS.

1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER	

PLUMBING SYMBOLS LIST

SYMBOL:	DESCRIPTION:
	NEW
CW	COLD WATER - POTABLE
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
HW140	HOT WATER - POTABLE NO. INDICATES TEMP.
HWC140	HOT WATER CIRC. - POTABLE NO. INDICATES TEMP.
PD	PUMPED DISCHARGE
SAN	SANITARY DRAINAGE
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
V	VENT
W	SERVICE WATER - POTABLE
SCW	SOFTENED COLD WATER
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	NEW CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
0.5	BALANCING VALVE (NO. INDICATES GPM)
	CHECK VALVE
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
BFP	BACKFLOW PREVENTER
C.C.	CIVIL CONTRACTOR
CO	CLEANOUT
DF	DRINKING FOUNTAIN
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
P.C.	PLUMBING CONTRACTOR
RD	ROOF DRAIN
SCW	SOFTENED COLD WATER
SH	SHOWER
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
WH	WATER HEATER
YCO	YARD CLEANOUT
WS	WATER SOFTNER
	CONTINUATION
	CLEAN OUT
	BACKFLOW PREVENTER
	"WYE" - STRAINER
	TEMPERATURE AND PRESSURE RELIEF
LI	LINE INTERCEPTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
	THERMOMETER WITH WELL (FILLED TYPE)
	THERMOMETER WITH WELL (DIAL TYPE)
	PRESSURE/TEMPERATURE TEST PLUG

PLUMBING SHEET INDEX

P0.00	PLUMBING COVER SHEET
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P1.02	UNDER FLOOR PLAN - AREA 2 - PLUMBING
P1.03	UNDER FLOOR PLAN - AREA 3 - PLUMBING
P1.11	LEVEL 1 PLAN - AREA 1 - PLUMBING
P1.12	LEVEL 1 PLAN - AREA 2 - PLUMBING
P1.13	LEVEL 1 PLAN - AREA 3 - PLUMBING
P1.21	LEVEL 2 PLAN - AREA 1 - PLUMBING
P1.22	LEVEL 2 PLAN - AREA 2 - PLUMBING
P1.23	LEVEL 2 PLAN - AREA 3 - PLUMBING
P1.31	ROOF PLAN - AREA 1 - PLUMBING
P1.32	ROOF PLAN - AREA 2 - PLUMBING
P1.33	ROOF PLAN - AREA 3 - PLUMBING
P1.40	ALTERNATE 1 PLANS - PLUMBING
P1.41	ALTERNATE 2 PLANS - PLUMBING
P1.42	ALTERNATE 3 PLANS - PLUMBING
P3.00	ENLARGED PLANS - PLUMBING
P3.01	ENLARGED PLANS - PLUMBING
P3.02	ENLARGED PLANS - PLUMBING
P4.00	PLUMBING DETAILS
P4.01	PLUMBING DETAILS
P5.00	PLUMBING MATERIAL LIST

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

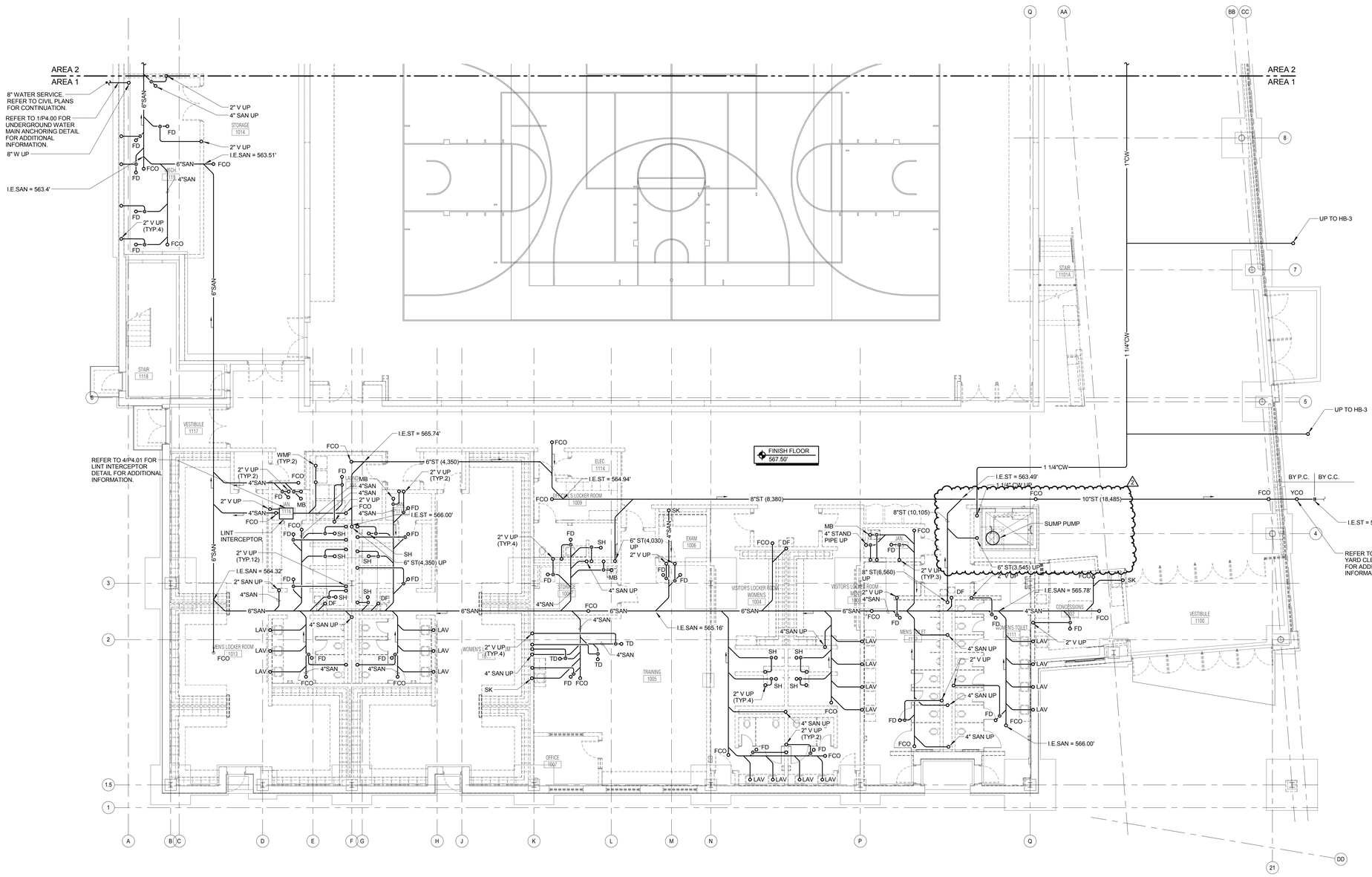
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PLUMBING COVER SHEET

SHEET NUMBER:
P0.00

GENERAL PLUMBING NOTES

1. ALL SANITARY PIPES SHALL BE MINIMUM OF 4" UNLESS NOTED OTHERWISE.



1 UNDER FLOOR PLAN - AREA 1 - PLUMBING

1/8" = 1'-0"

NORTH

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SHEET STATUS: 7/17/15

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2	ADDENDUM 2	08/06/15

SHEET TITLE:

UNDER FLOOR PLAN - AREA 1 - PLUMBING

SHEET NUMBER:

P1.01

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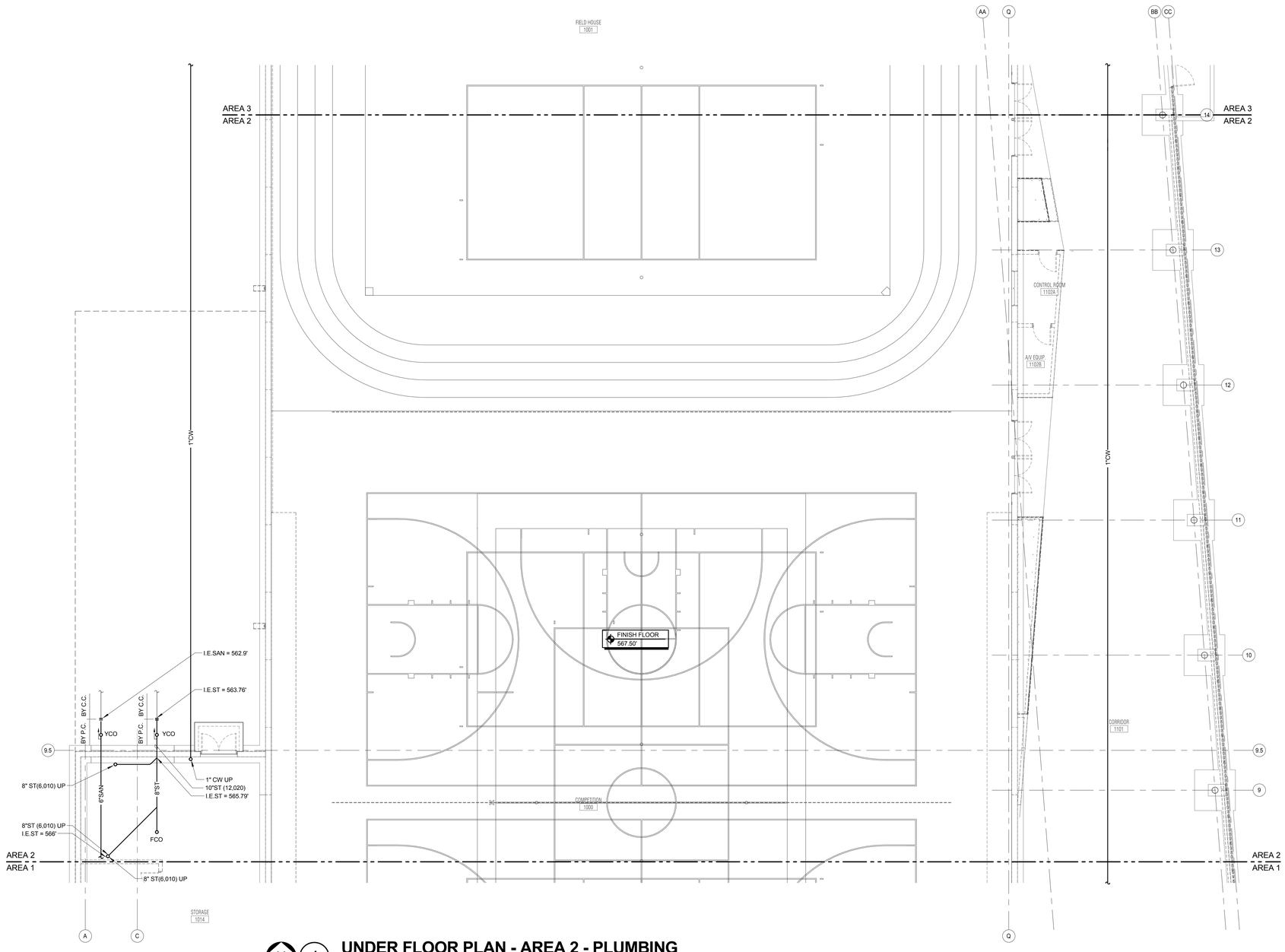

1 UNDER FLOOR PLAN - AREA 2 - PLUMBING

1/8" = 1'-0"

NORTH

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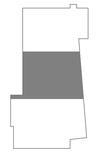

SHEET STATUS: 7/17/15
BID PACKAGE 2
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SHEET TITLE:
UNDER FLOOR PLAN - AREA 2 - PLUMBING

SHEET NUMBER:
P1.02

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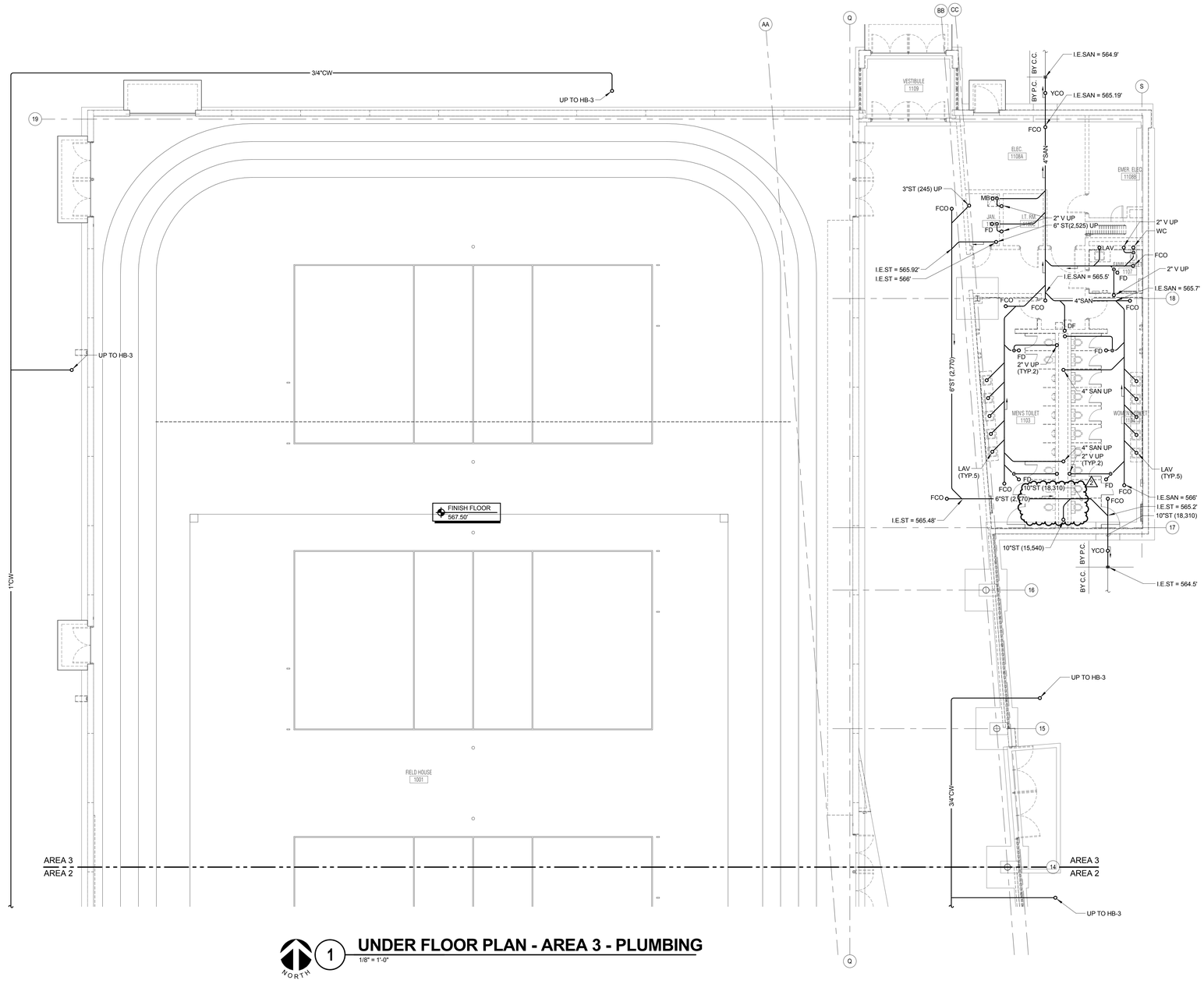
1. ALL SANITARY PIPES SHALL BE MINIMUM OF 4" UNLESS NOTED OTHERWISE.



1 UNDER FLOOR PLAN - AREA 3 - PLUMBING

1/8" = 1'-0"

NORTH

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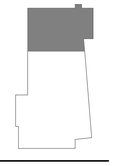

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BID PACKAGE 2
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NO:	DESCRIPTION:	DATE:
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SHEET TITLE:
UNDER FLOOR PLAN - AREA 3 - PLUMBING

SHEET NUMBER:
P1.03

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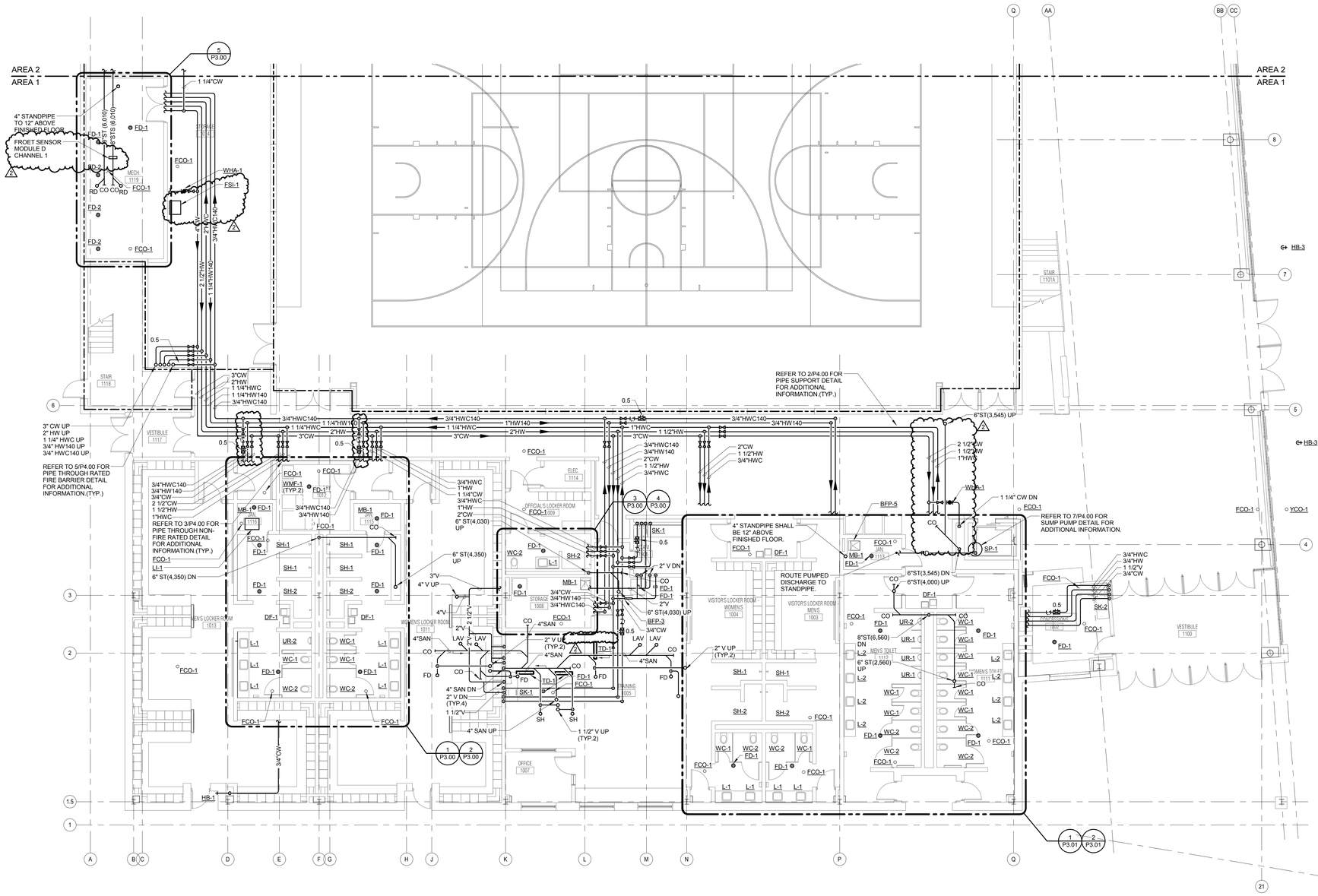
GENERAL PLUMBING NOTES

1. HWC PIPING SHALL CONNECT WITHIN 3 FEET OF HW PIPING CONNECTION TO FIXTURE.
2. BRANCH PIPING TO VERTICAL DROP SHALL BE MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.



LEVEL 1 PLAN - AREA 1 - PLUMBING

1/8" = 1'-0"

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SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - PLUMBING

SHEET NUMBER:
P1.11

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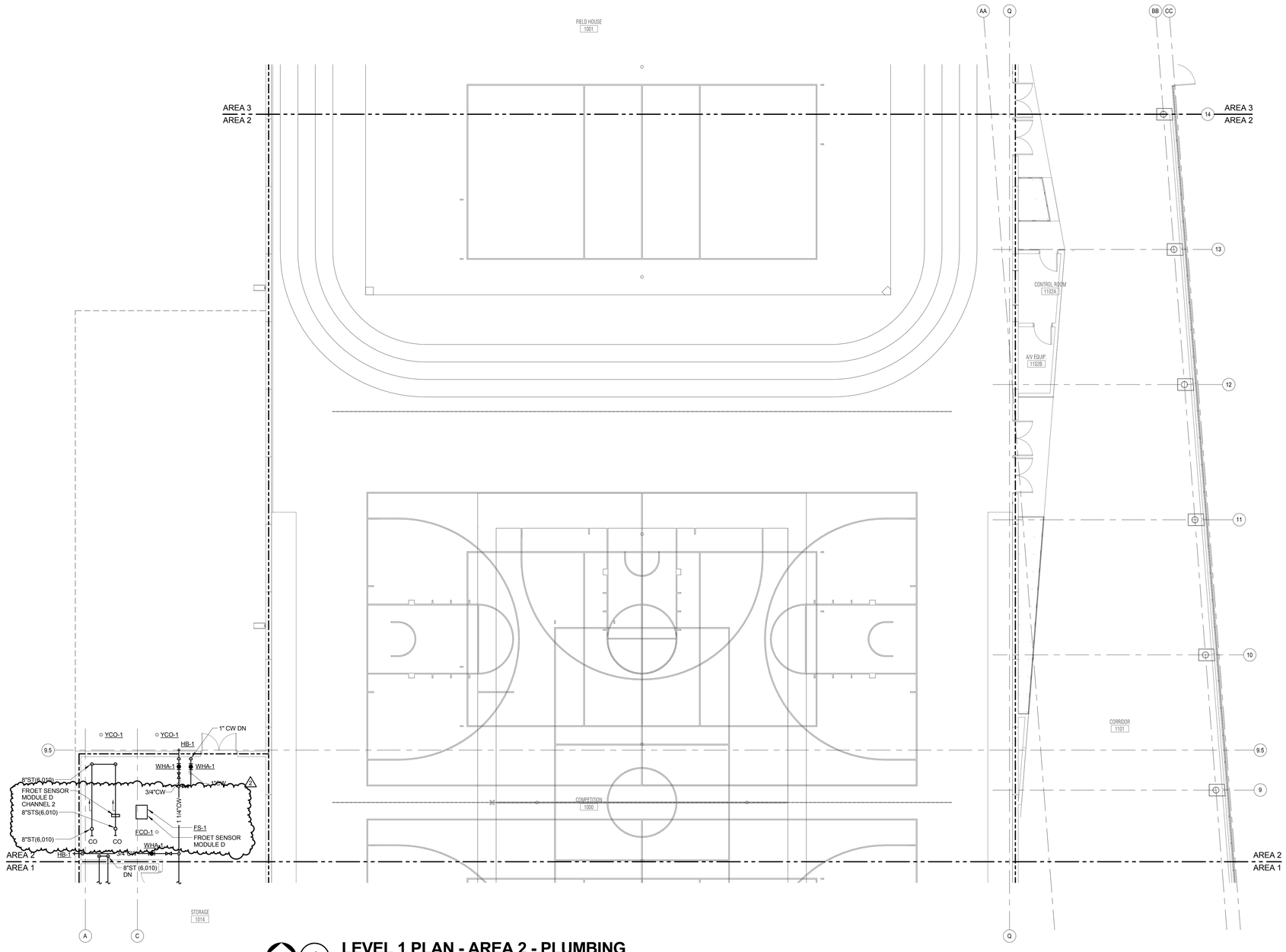

1 LEVEL 1 PLAN - AREA 2 - PLUMBING

1/8" = 1'-0"

NORTH

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SHEET TITLE:

LEVEL 1 PLAN - AREA 2 - PLUMBING

SHEET NUMBER:

P1.12

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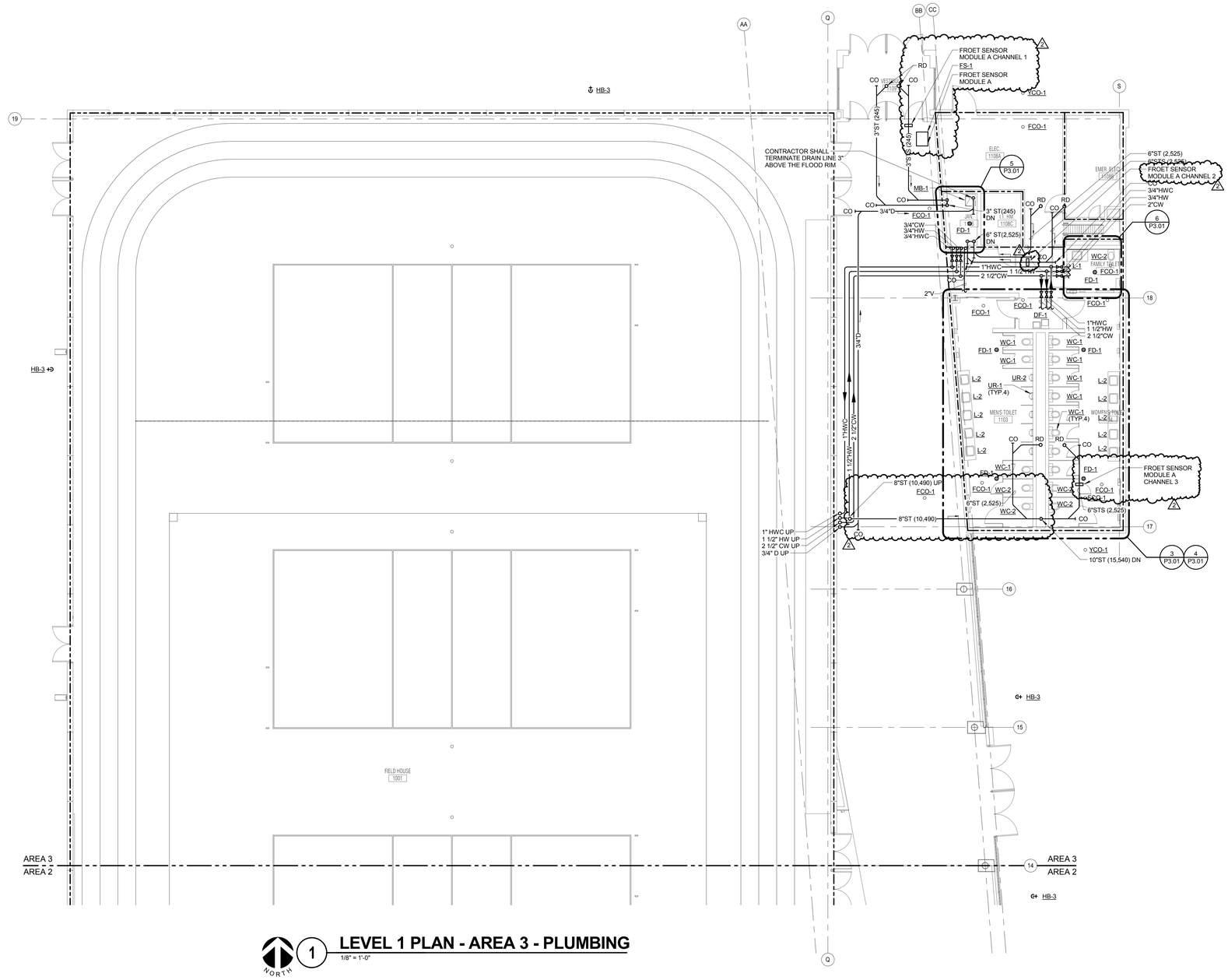

LEVEL 1 PLAN - AREA 3 - PLUMBING

1/8" = 1'-0"

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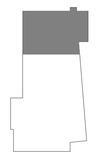

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BID PACKAGE 2
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SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - PLUMBING

SHEET NUMBER:
P1.13

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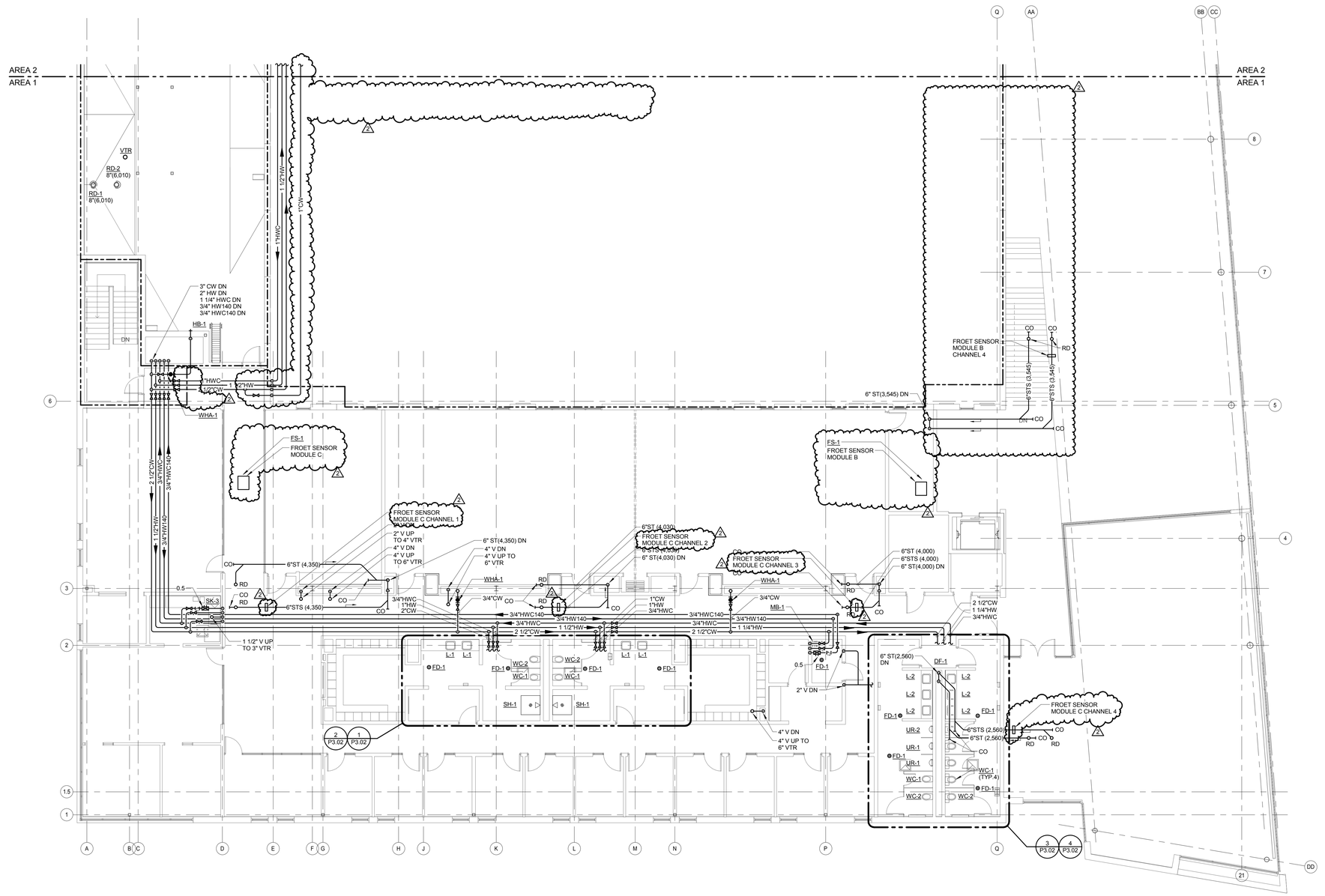
GENERAL PLUMBING NOTES

1. HWC PIPING SHALL CONNECT WITHIN 3 FEET OF HW PIPING CONNECTION TO FIXTURE.
2. BRANCH PIPING TO VERTICAL DROP SHALL BE MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
3. ALL PIPING IN FIELDHOUSE SHALL BE INSTALLED AS TIGHT TO DESK AS POSSIBLE.
4. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.



LEVEL 2 PLAN - AREA 1 - PLUMBING

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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1100 WARRENVILLE RD. SUITE 400W
NAPERVILLE, IL 60563
P: 630.527.2320

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P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 1 - PLUMBING

SHEET NUMBER:

P1.21

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PROJECT #: 14.0454.00
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REFERENCE SCALE IN INCHES
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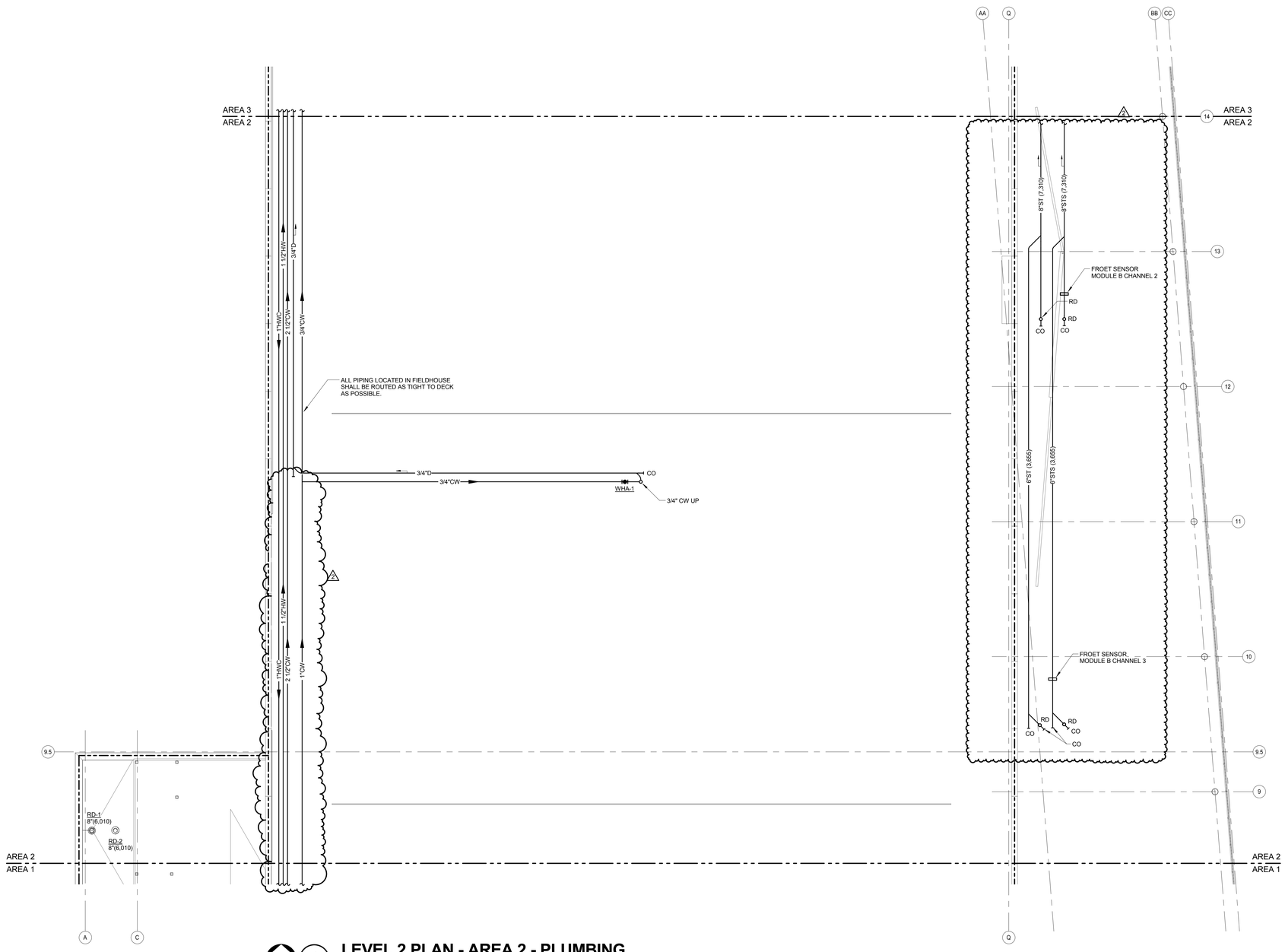
GENERAL PLUMBING NOTES

1. ALL PIPING IN FIELDHOUSE SHALL BE INSTALLED AS TIGHT TO DESK AS POSSIBLE.
2. UPPER ATTACHMENTS FOR HANGER RODS OR SUPPORT STRUTS IN THE FIELD HOUSE SHALL BE APPROVED FOR USE IN THE EPIC METALS TORIS ROOF SYSTEM BY THE ROOF SYSTEM MANUFACTURER. CONTRACTOR SHALL CONFIRM EXACT ROOF SYSTEM MODEL WITH THE ACCEPTED ROOF SYSTEM SUBMITTAL PRIOR TO ORDERING THE ATTACHMENTS. ALL MAXIMUM MANUFACTURER ROOF ATTACHMENT LOADING REQUIREMENTS SHALL BE CONFIRMED AND COMPLIED WITH.



1 LEVEL 2 PLAN - AREA 2 - PLUMBING

1/8" = 1'-0"

NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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P: 312.496.0000

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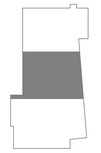
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 2 - PLUMBING

SHEET NUMBER:
P1.22

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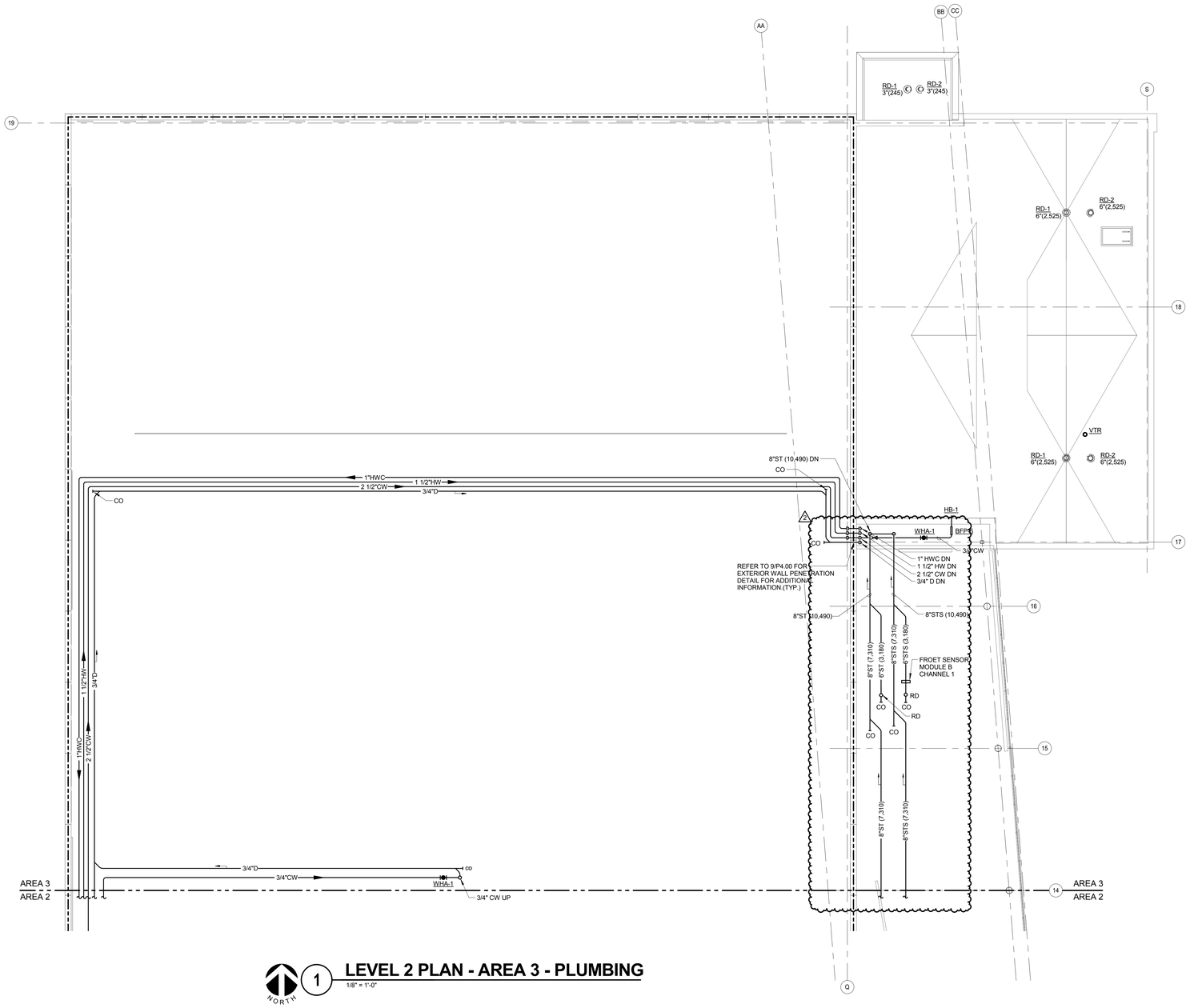
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL PLUMBING NOTES
1. ALL PIPING IN FIELDHOUSE SHALL BE INSTALLED AS TIGHT TO DESK AS POSSIBLE.



1 LEVEL 2 PLAN - AREA 3 - PLUMBING

1/8" = 1'-0"

NORTH

ARCHITECT OF RECORD
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CHICAGO, IL 60661
P: 312.496.0000

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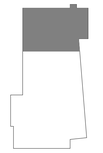
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 3 - PLUMBING

SHEET NUMBER:

P1.23

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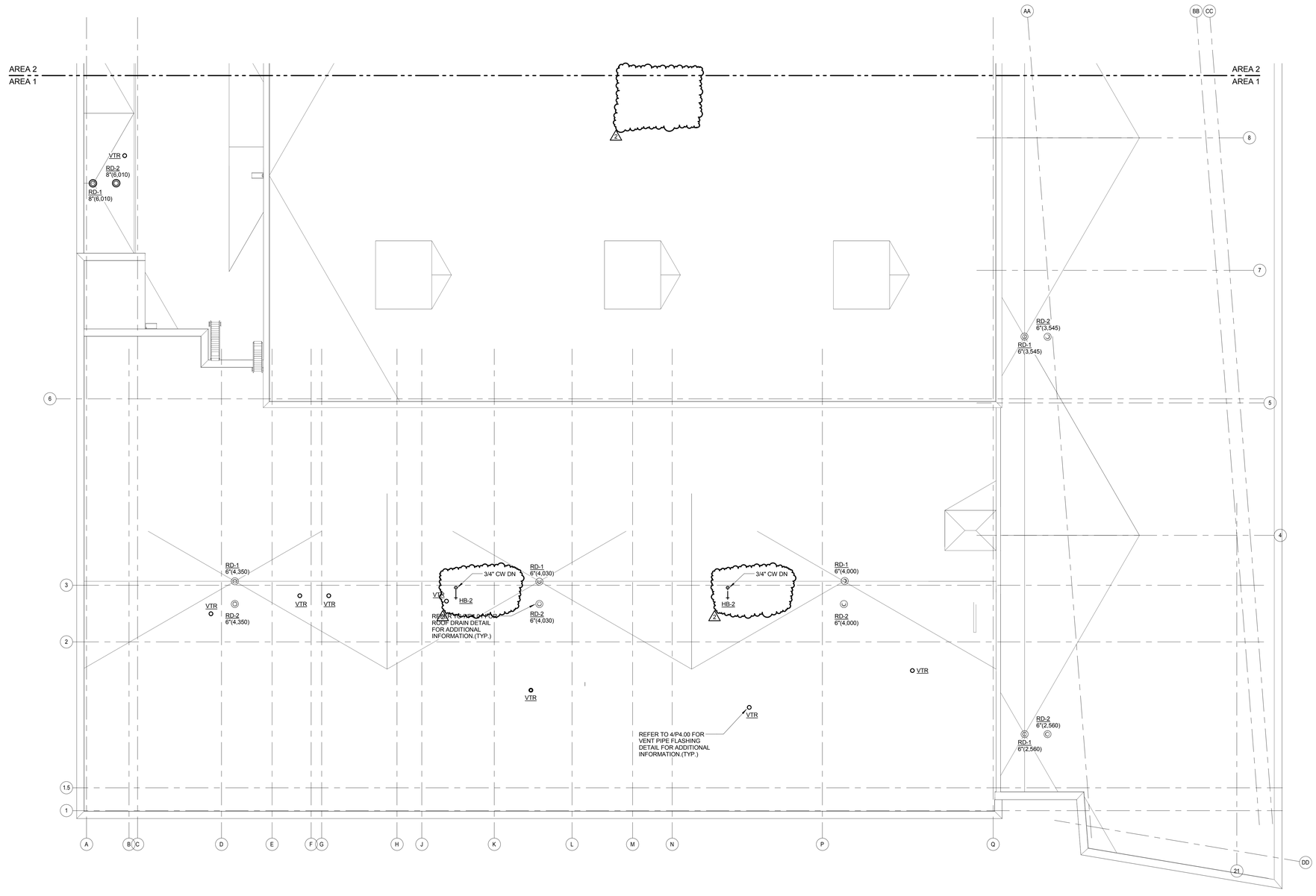

1 ROOF PLAN - AREA 1 - PLUMBING

1/8" = 1'-0"

ARCHITECT OF RECORD
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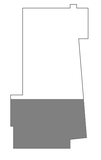
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ROOF PLAN - AREA 1 - PLUMBING

SHEET NUMBER:
P1.31

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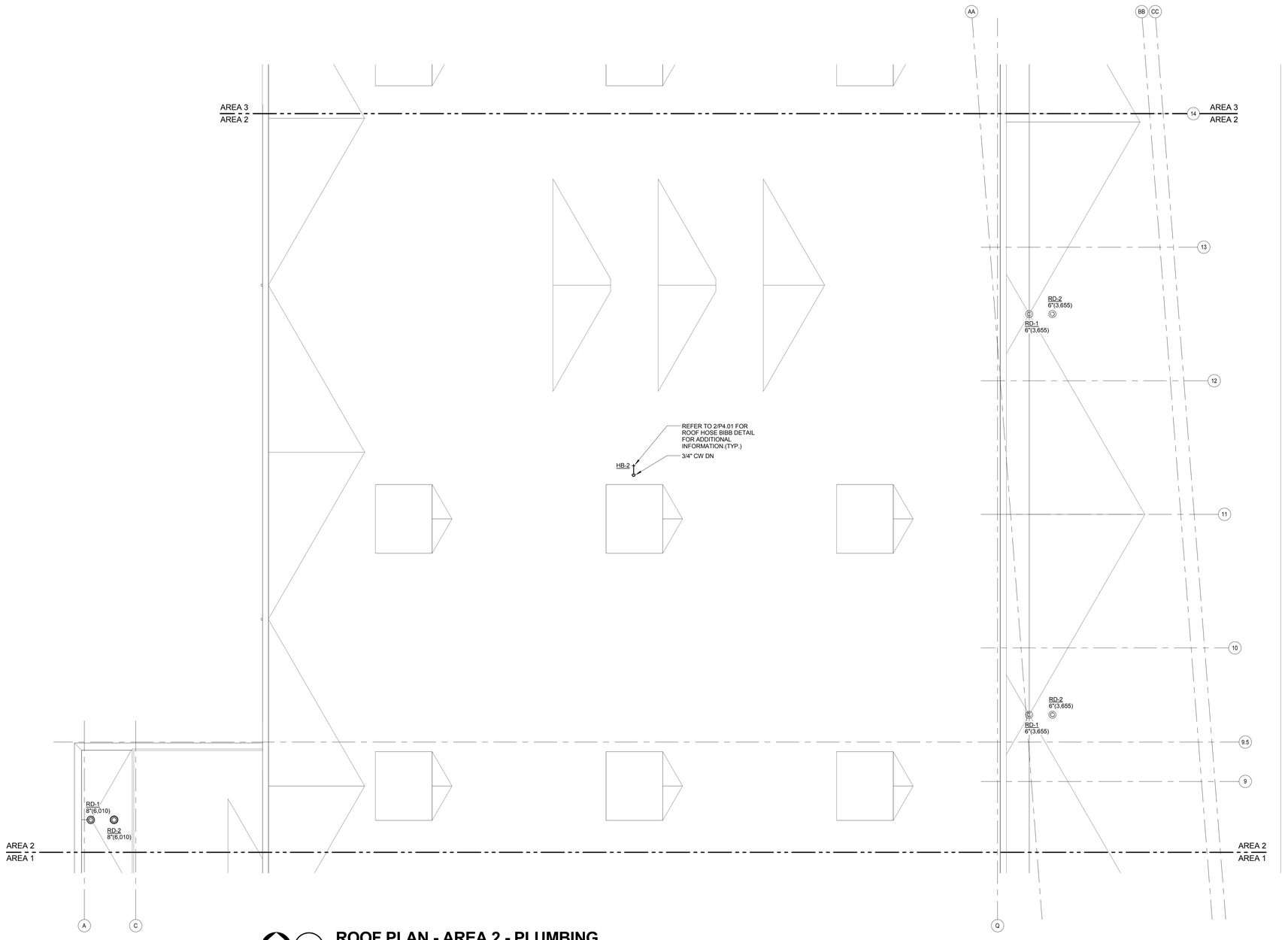
0 1 2 3



1 ROOF PLAN - AREA 2 - PLUMBING

1/8" = 1'-0"

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DEMONICA KEMPER ARCHITECTS
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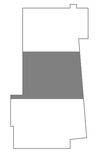
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 2 - PLUMBING

SHEET NUMBER:
P1.32

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REFERENCE SCALE IN INCHES
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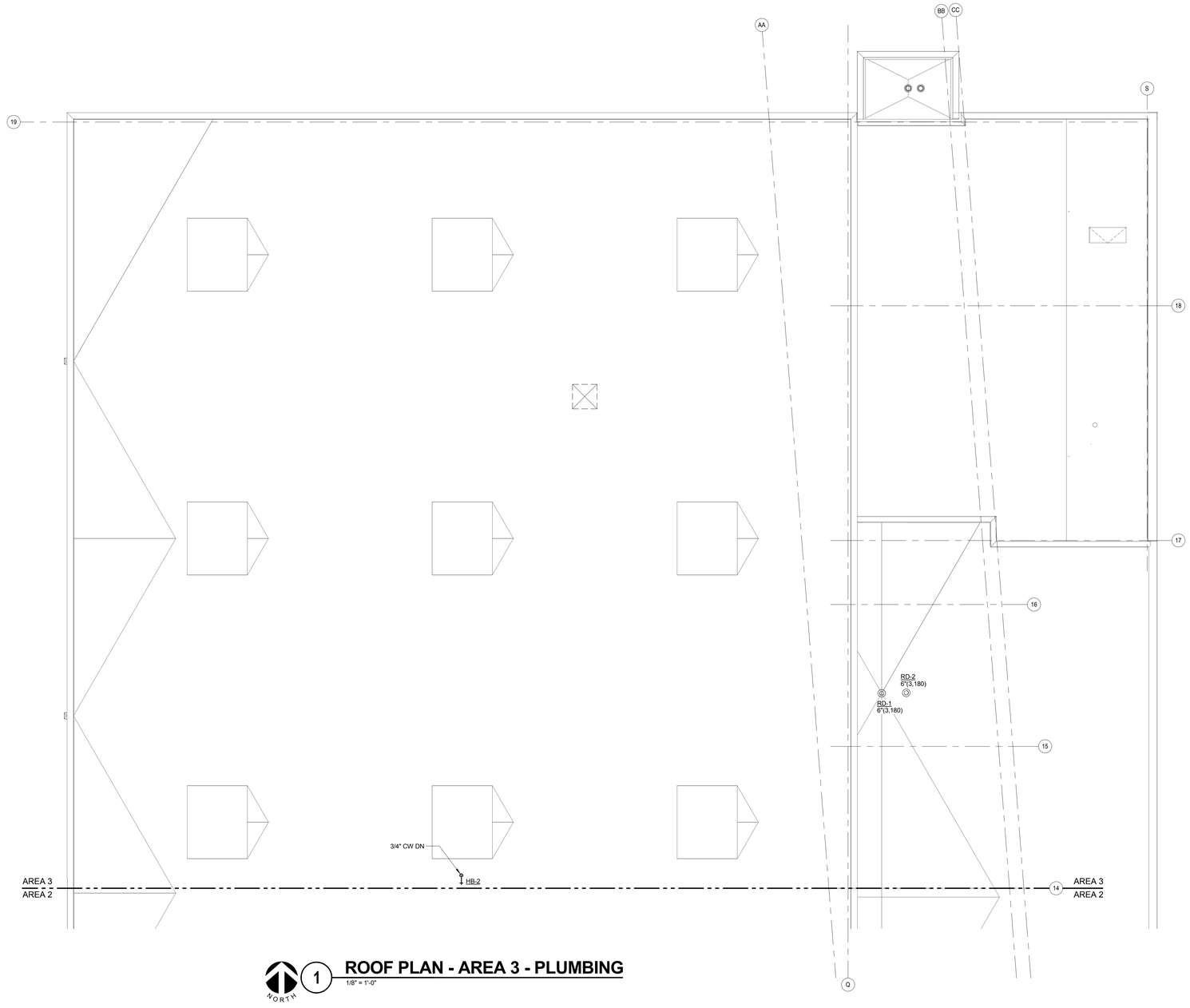

NORTH

1 **ROOF PLAN - AREA 3 - PLUMBING**

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF PLAN - AREA 3 - PLUMBING

SHEET NUMBER:
P1.33

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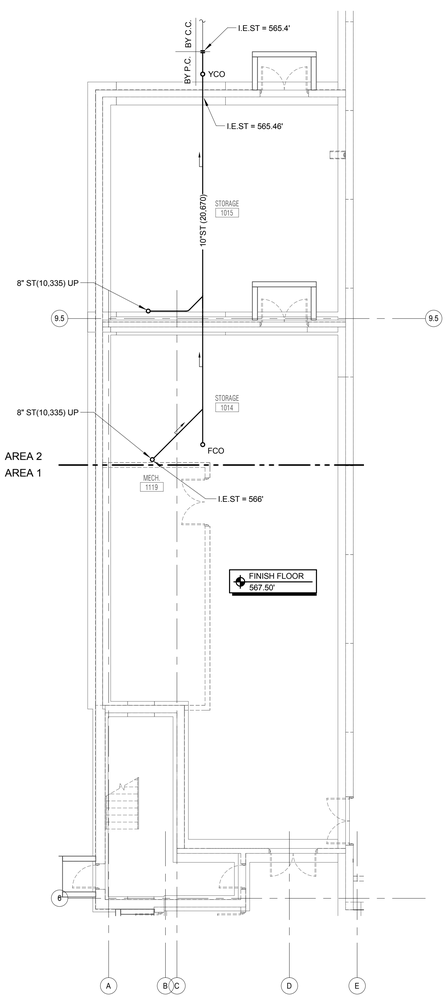
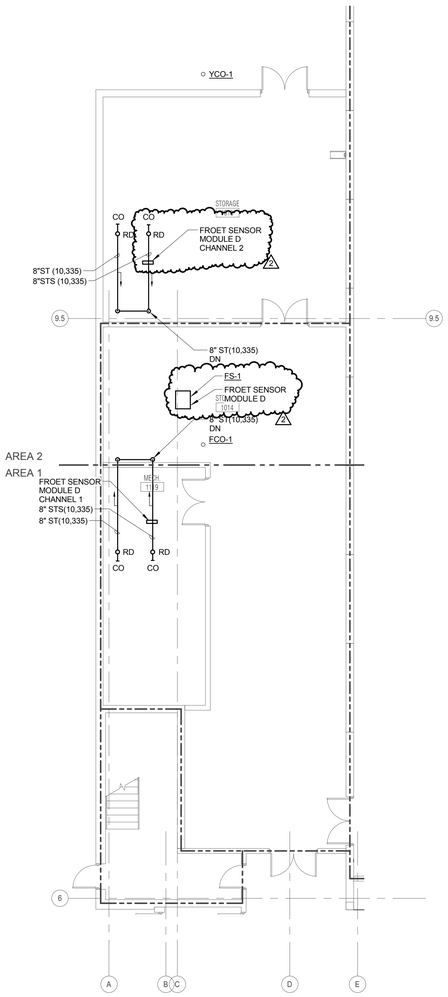


UNDER FLOOR PLAN - AREA 1 - PLUMBING - ALT 1

NORTH 1

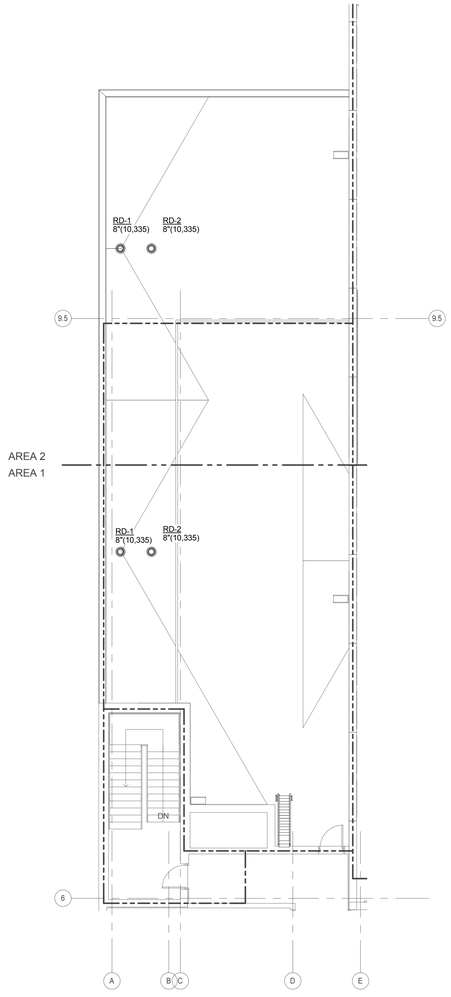
1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - PLUMBING - ALT 1

NORTH 2

1/8" = 1'-0"



ROOF PLAN - AREA 2 - PLUMBING - ALT 1

NORTH 3

1/8" = 1'-0"

ARCHITECT OF RECORD
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125 N. HALSTED STREET, SUITE 301
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STRUCTURAL AND MEP/FP ENGINEERING
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JOLIET, IL 60435
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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

ALTERNATE 1 PLANS - PLUMBING

SHEET NUMBER:

P1.40

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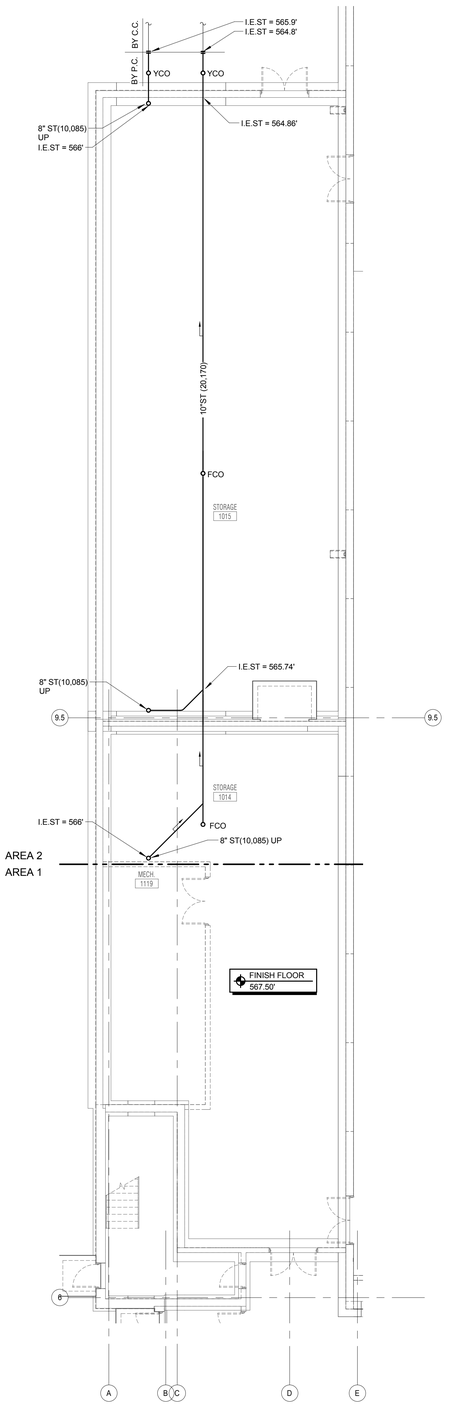
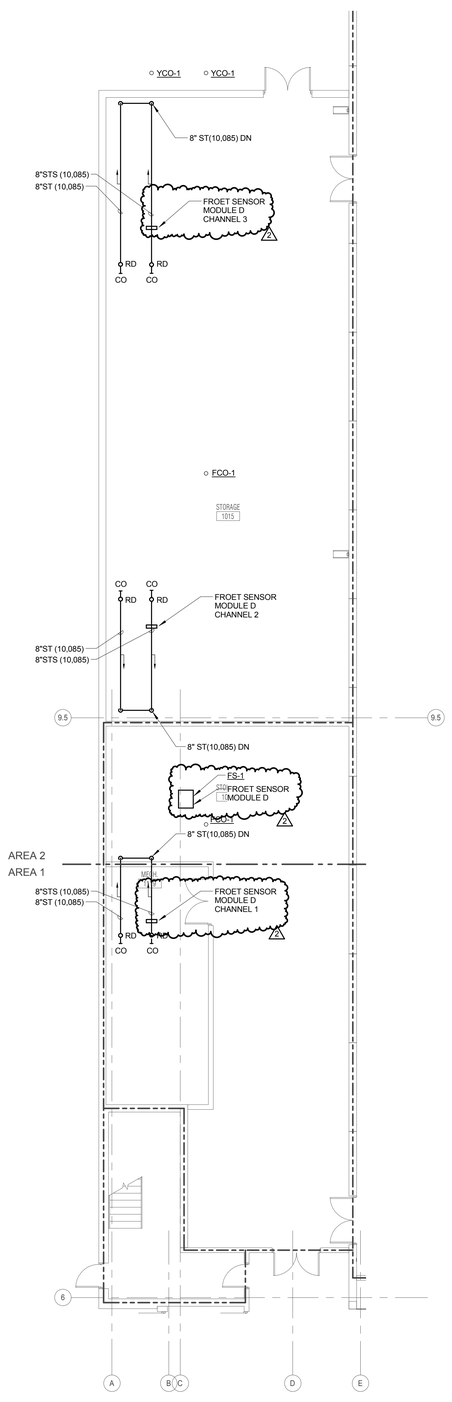


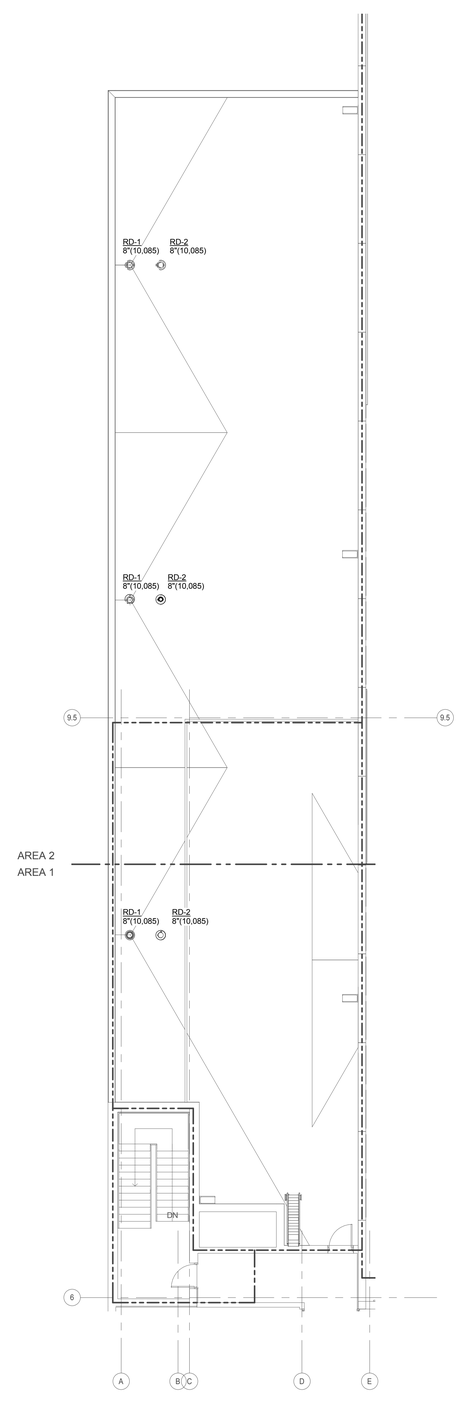
UNDER FLOOR PLAN - AREA 1 - PLUMBING - ALT 2

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - PLUMBING - ALT 2

1/8" = 1'-0"



ROOF PLAN - AREA 2 - PLUMBING - ALT 2

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

ALTERNATE 2 PLANS - PLUMBING

SHEET NUMBER:

P1.41

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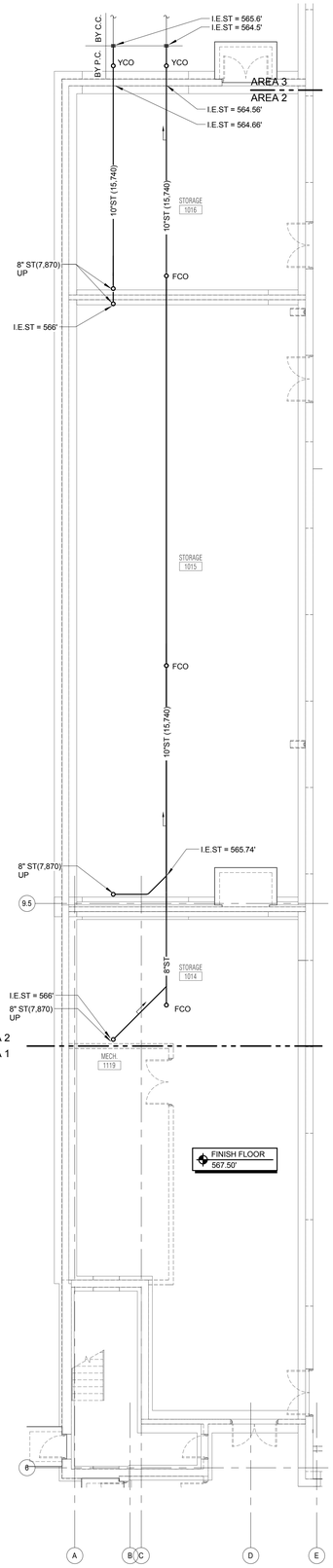
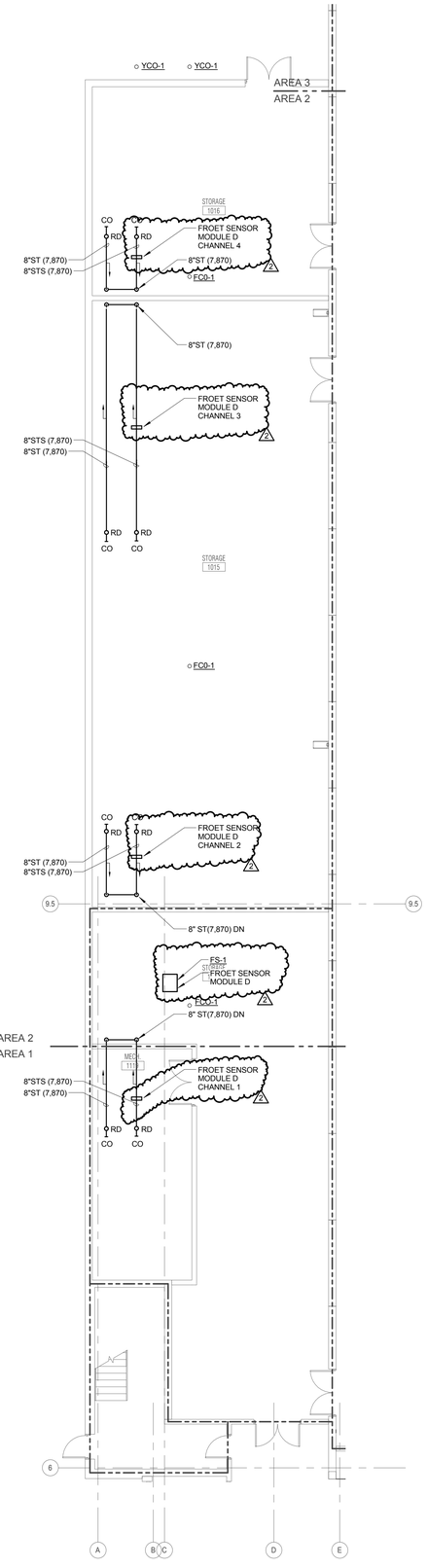


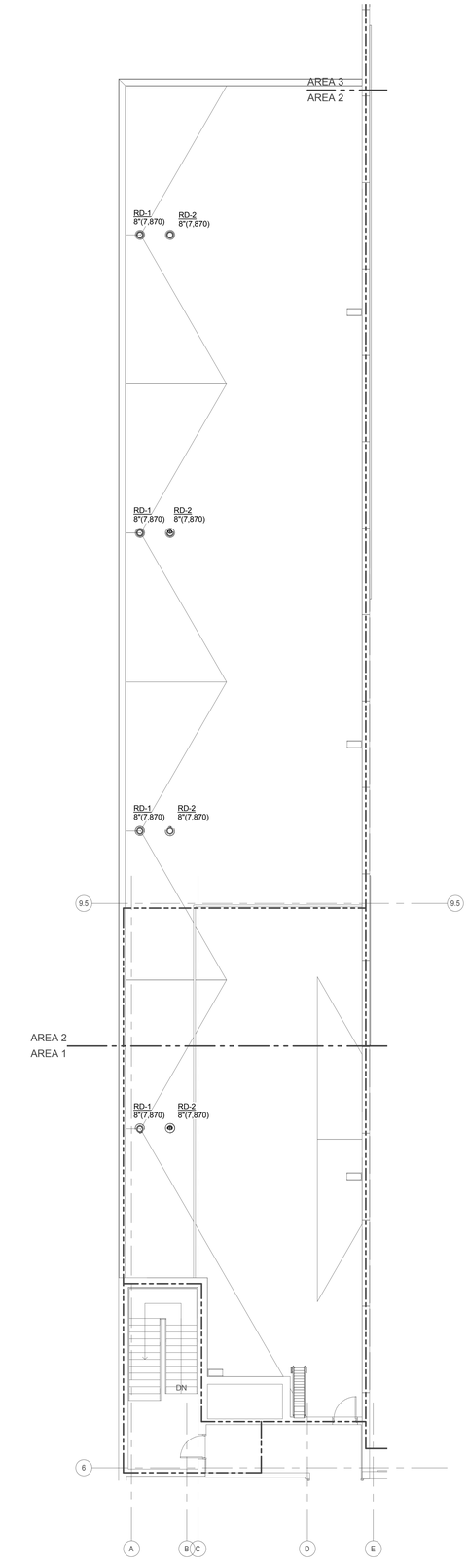
UNDER FLOOR PLAN - AREA 1 - PLUMBING - ALT 3

1 — 1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - PLUMBING - ALT 3

2 — 1/8" = 1'-0"



ROOF PLAN - AREA 2 - PLUMBING - ALT 3

3 — 1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ALTERNATE 3 PLANS - PLUMBING

SHEET NUMBER:
P1.42

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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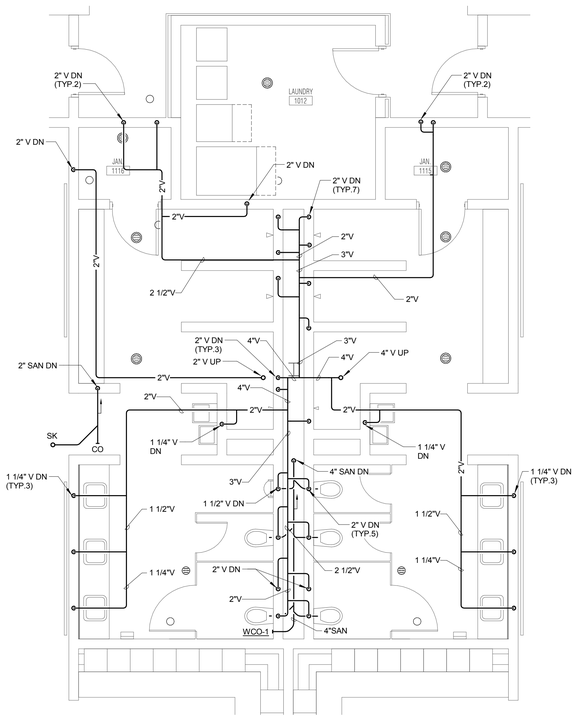
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL PLUMBING NOTES

1. HWC PIPING SHALL CONNECT WITHIN 3 FEET OF HW PIPING CONNECTION TO FIXTURE.
2. REFER TO PLUMBING ROUGH IN SCHEDULE ON SHEET P-0.00 FOR SIZES OF BRANCH PIPING TO FIXTURES.
3. ALL PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.

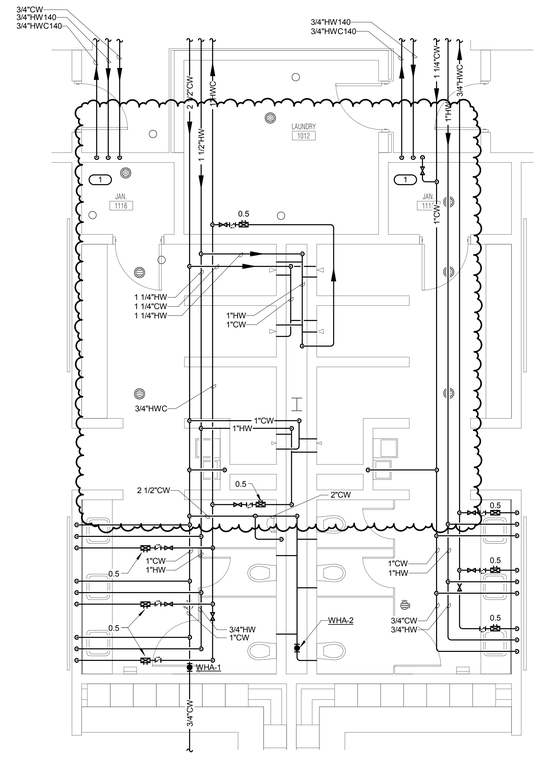
KEYNOTES (#)

1. CONTRACTOR SHALL FINALIZE LOCATION OF MOP BASIN WITH ARCHITECT.



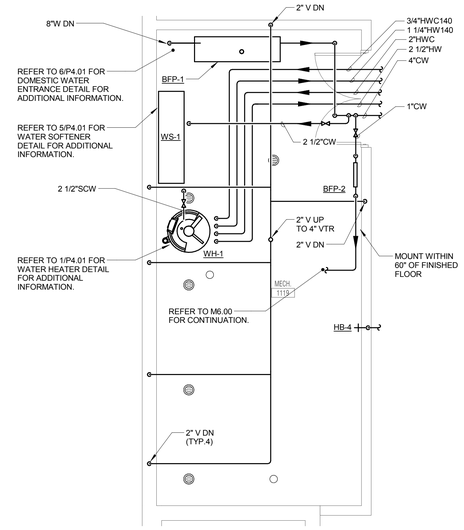
ENLARGED PLAN - MEN'S & WOMEN'S LOCKER ROOM - LEVEL 1 - AREA 1 - SAN & VENT

1/4" = 1'-0"



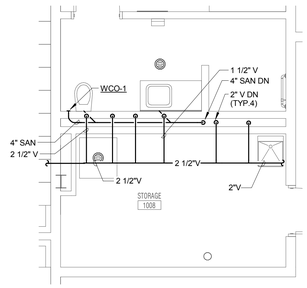
ENLARGED PLAN - MEN'S & WOMEN'S LOCKER ROOM - LEVEL 1 - AREA 1 - DOMESTIC

1/4" = 1'-0"



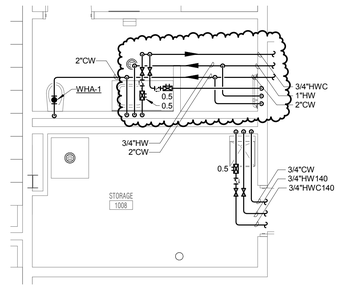
ENLARGED PLAN - MECHANICAL ROOM - LEVEL 1 - AREA 1

1/4" = 1'-0"



ENLARGED PLAN - OFFICIAL TOILET ROOM - LEVEL 1 - AREA 1 - SAN & VENT

1/4" = 1'-0"



ENLARGED PLAN - OFFICIAL TOILET ROOM - LEVEL 1 - AREA 1 - DOMESTIC

1/4" = 1'-0"

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JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
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SHEET NUMBER:
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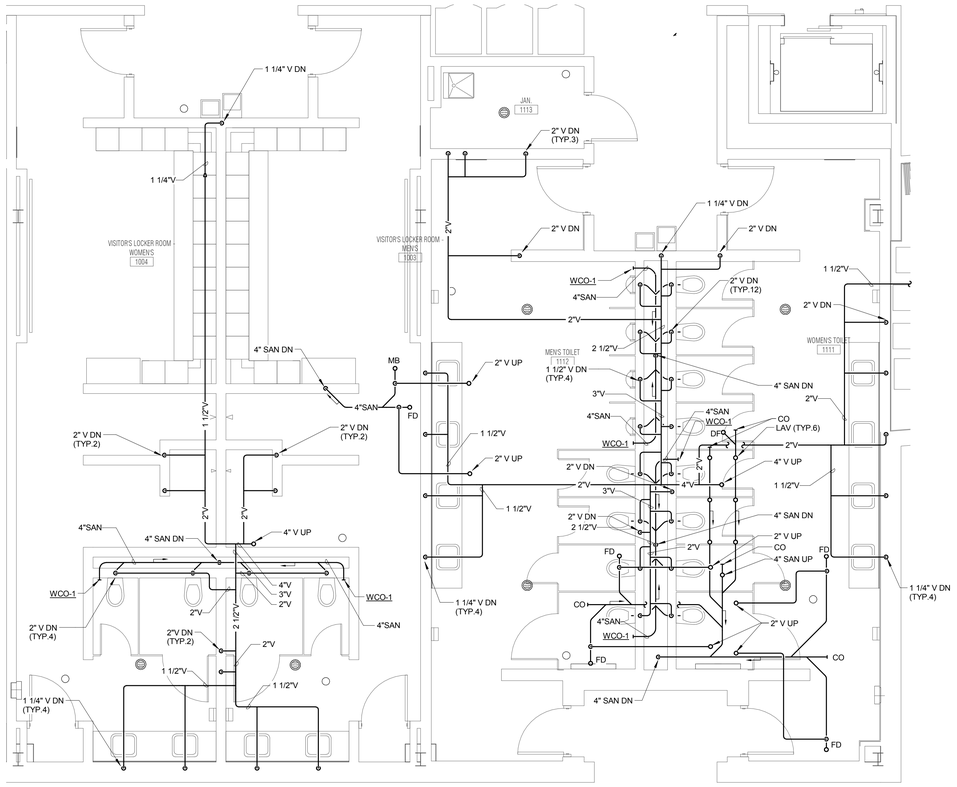
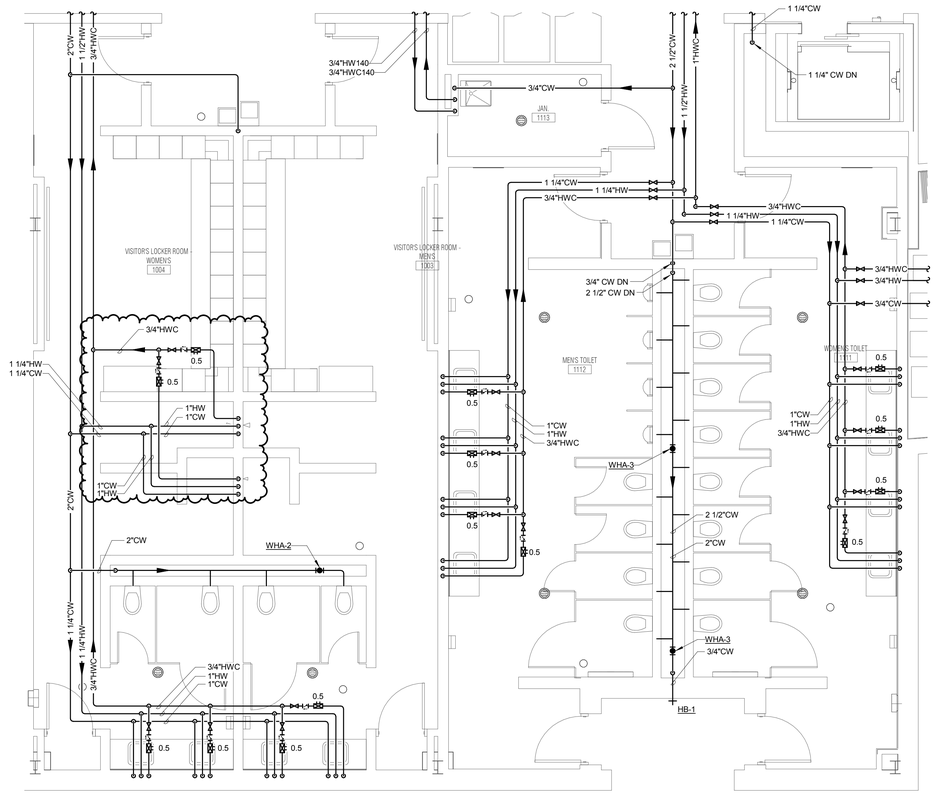


ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 1 - AREA 1 - SAN & VENT

1 NORTH 1/4" = 1'-0"

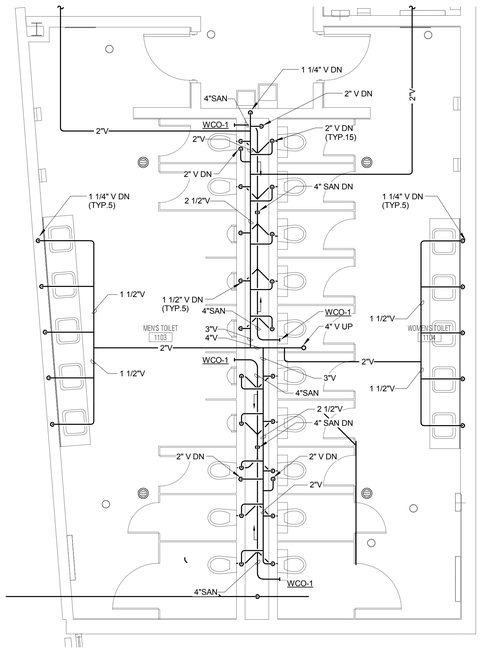


ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 1 - AREA 1 - DOMESTIC

2 NORTH 1/4" = 1'-0"

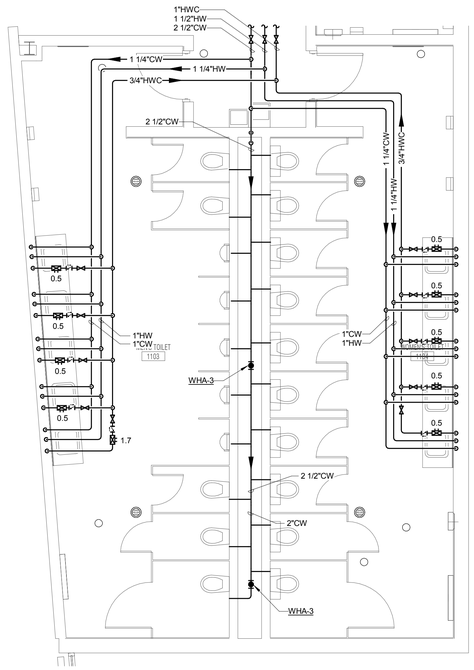
GENERAL PLUMBING NOTES

1. HWC PIPING SHALL CONNECT WITHIN 3 FEET OF HW PIPING CONNECTION TO FIXTURE.
2. REFER TO PLUMBING ROUGH IN SCHEDULE ON SHEET P-0.00 FOR SIZES OF BRANCH PIPING TO FIXTURES.
3. ALL PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.



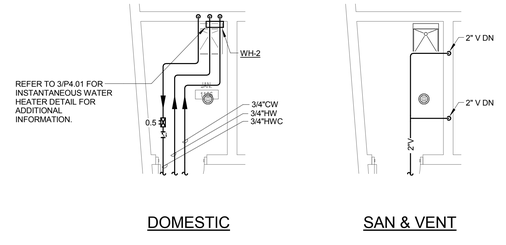
ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 1 - AREA 3 - SAN & VENT

3 NORTH 1/4" = 1'-0"



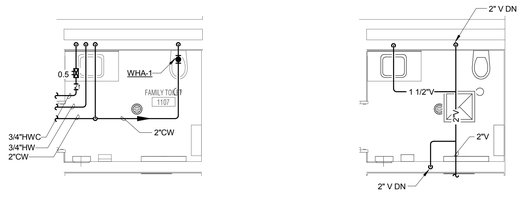
ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 1 - AREA 3 - DOMESTIC

4 NORTH 1/4" = 1'-0"



ENLARGED PLAN - JANITOR CLOSET - LEVEL 1 - AREA 3

5 NORTH 1/4" = 1'-0"



ENLARGED PLAN - FAMILY TOILET ROOM - LEVEL 1 - AREA 3

6 NORTH 1/4" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

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SHEET TITLE:
ENLARGED PLANS - PLUMBING

SHEET NUMBER:
P3.01

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GENERAL PLUMBING NOTES

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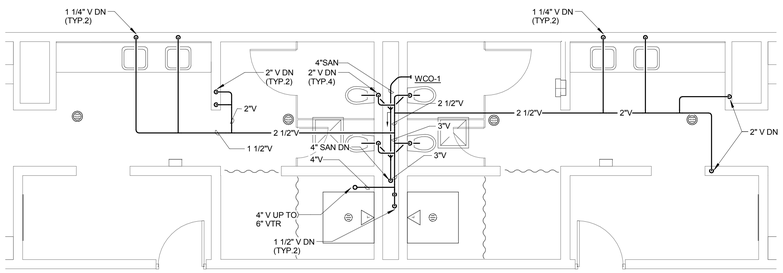
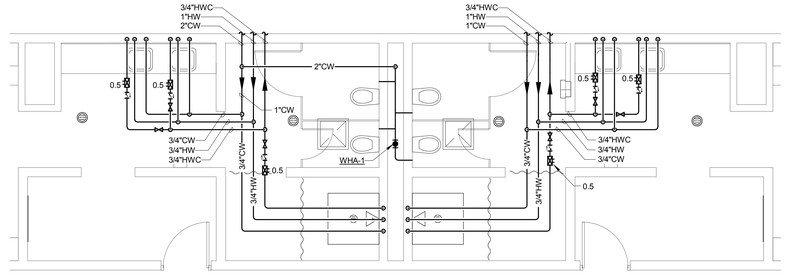


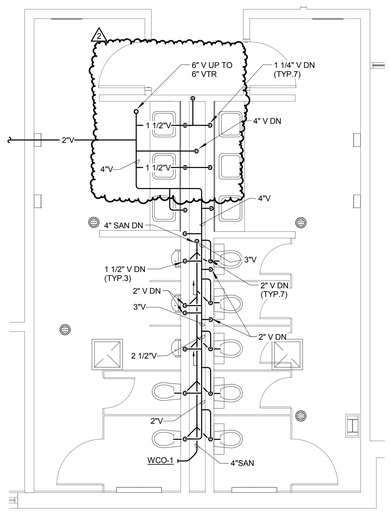
ENLARGED PLAN - COACHES LOCKER ROOM - LEVEL 2 - AREA 1 - SAN & VENT

1/4" = 1'-0"



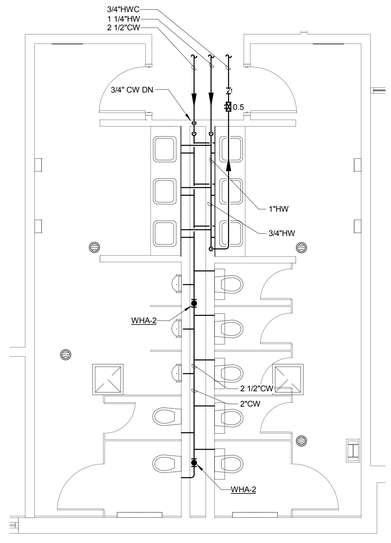
ENLARGED PLAN - COACHES LOCKER ROOM - LEVEL 2 - AREA 1 - DOMESTIC

1/4" = 1'-0"



ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 2 - AREA 1 - SAN & VENT

1/4" = 1'-0"



ENLARGED PLAN - MEN'S & WOMEN'S RESTROOM - LEVEL 2 - AREA 1 - DOMESTIC

1/4" = 1'-0"

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DKA PROJECT NO: 14-004

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ENLARGED PLANS - PLUMBING

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P3.02

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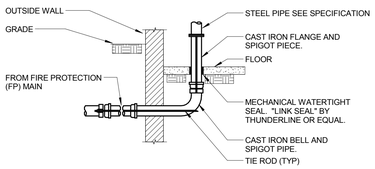
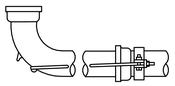
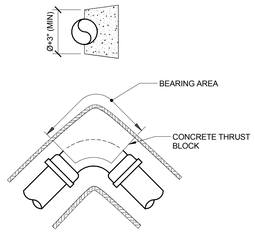


MAIN ENTERING BLDG.



ANCHOR FOR LONG SPIGOT 1/4 BEND.



ONE-QUARTER BEND

ANCHOR RODS

ROD AND CLAMP ANCHORAGE

PIPING NOMINAL SIZE (IN.)	CLAMP SIZE (IN.)	BOLT SIZE (IN.)	WASHER (IN.)		NUMBER OF RODS AND ROD SIZE(IN.) FOR ROD AND CLAMP ANCHORAGE					
					MECHANICAL JOINT			PUSH ON JOINT		
			CAST IRON	STEEL	90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG	90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG
8	5/8x2-1/2	5/8	5/8x3	1/2x3	4 3/4	2 3/4	4 3/4	4 3/4	2 3/4	4 3/4

THRUST BLOCKS

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS

PIPING NOMINAL SIZE (IN.)	MIN. SQ. FT.		
	CAST IRON AND DUCTILE IRON		
	1/4 BEND	1/8 BEND	TEES, PLUGS, CAPS, HYDRANTS
8	11	6	8

NOTES:

1. AFTER INSTALLATION, PROTECT TIE RODS, BOLTS, NUTS, WASHERS AND CLAMPS AGAINST CORROSION WITH A HEAVY COAT OF ASPHALT MATERIAL.
2. THE LENGTH OF THE ROD REQUIRED WILL VARY WITH THE PIPE FITTING, AND MUST BE DETERMINED BY FIELD MEASUREMENT. IF THE DISTANCE BETWEEN THE JOINTS IS LESS THAN 12 FEET, EXTEND THE ANCHORAGE TO THE SECOND BELL.

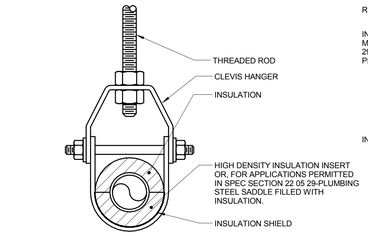
BASIS: 2,000 LB/SQ.FT. SOIL RESISTANCE.
250 PSI WATER PRESSURE.
CORRECTION FACTORS FOR OTHER SOILS:
SOFT CLAY.....4
SAND.....2
SAND&GRAVEL...1.33
SHALE.....0.4

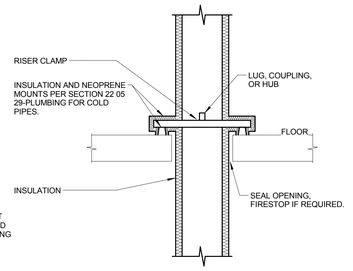
1 UNDERGROUND WATER MAIN ANCHORING DETAIL

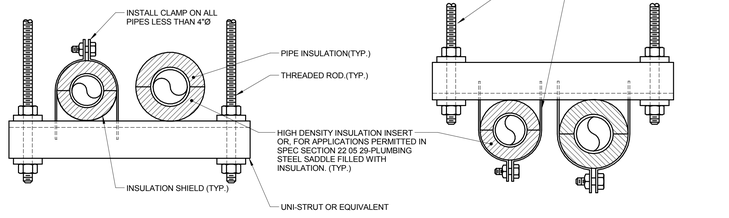
NO SCALE

NOTES:

1. BOTH THRUST BLOCKING AND ANCHOR RODS ARE REQUIRED.
2. REFER TO THE GOVERNING CODE AND NFPA 24 FOR ADDITIONAL REQUIREMENTS.





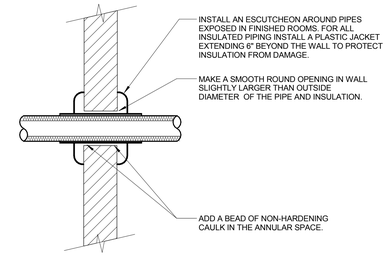


2 PIPE SUPPORT DETAIL

NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 22 05 29-PLUMBING & SECTION 22 07 19-PLUMBING.

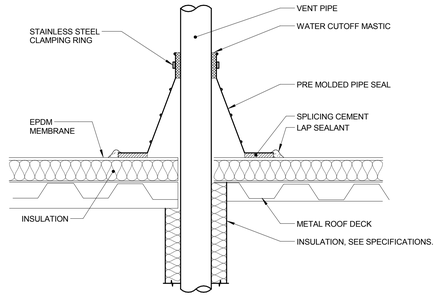


3 PIPE THROUGH NON-FIRE RATED WALL

NO SCALE

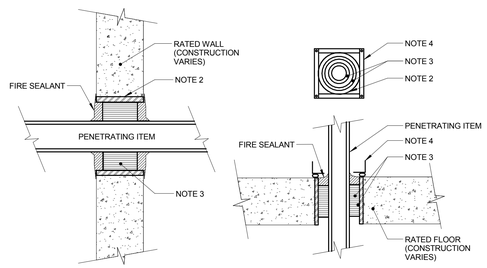
NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS, PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. FLOOR OPENINGS ARE SIMILAR SEE SPECIFICATION SECTION 22 05 29 - PLUMBING FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
3. SEE SPECIFICATION SECTION 22 05 03 - PLUMBING AND SECTION 22 05 29 - PLUMBING FOR ADDITIONAL INFORMATION.



4 VENT PIPE FLASHING

NO SCALE

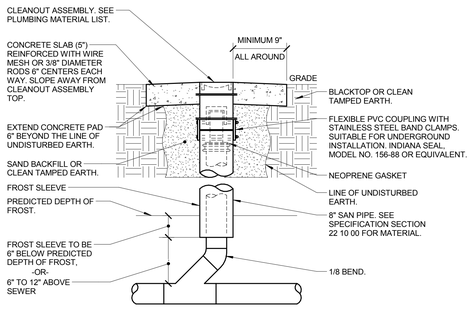


5 RATED FIRE BARRIER PENETRATION

NO SCALE

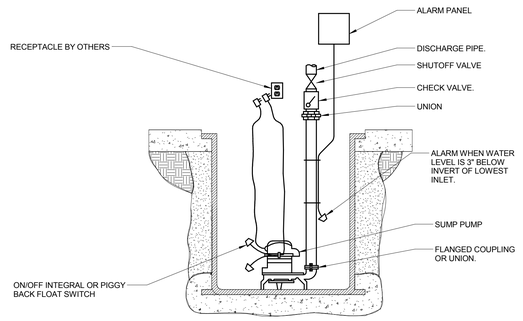
NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 22 05 03 - PLUMBING FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.



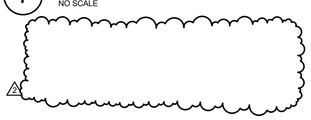
6 YARD CLEANOUT DETAIL

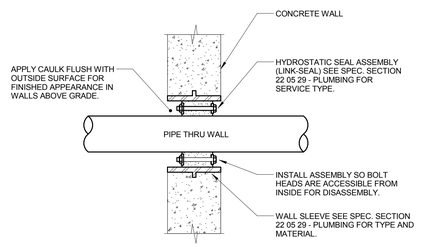
NO SCALE



7 SUMP PUMP DETAIL

NO SCALE





8 EXTERIOR WALL PENETRATION

NO SCALE

NOTES:

1. CONTRACTOR MAY FABRICATE PIPE SLEEVE.
2. SEAL SELECTION BASED ON OLD. OF PIPE THRU WALL AND I.D. OF SLEEVE.
3. SLEEVE NOT REQUIRED FOR CORE DRILLED PENETRATIONS.

dkA

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P4.00

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REFERENCE SCALE IN INCHES
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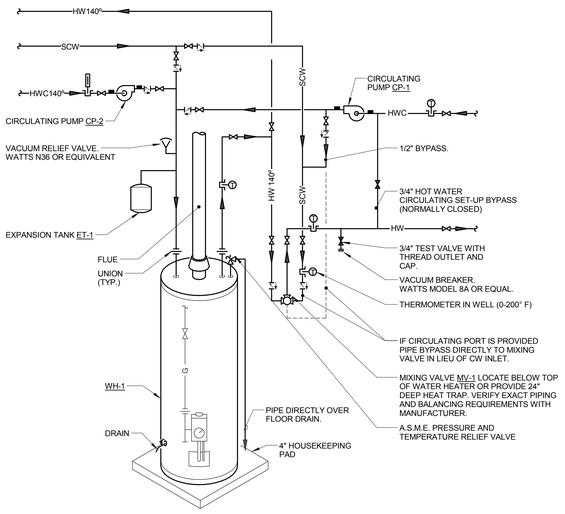
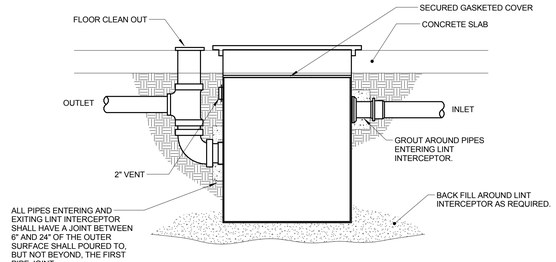


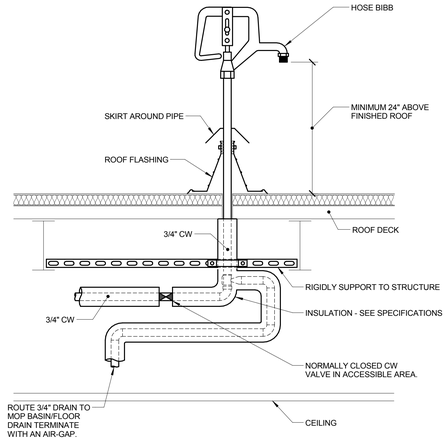
1 WATER HEATER (GAS) DETAIL

NO SCALE



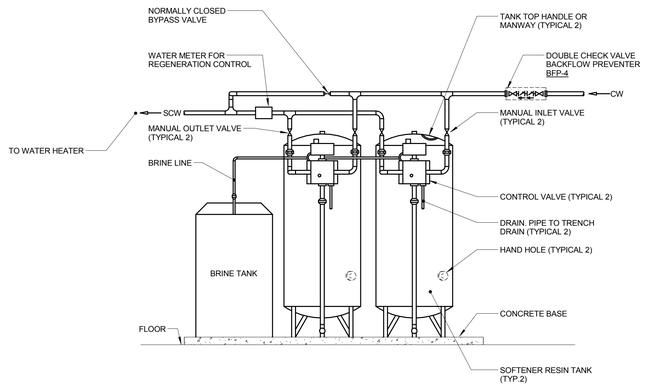
4 LINT INTERCEPTOR DETAIL

NO SCALE



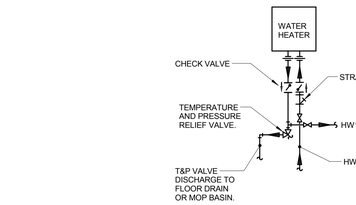
2 ROOF HOSE BIBB DETAIL

NO SCALE



5 WATER SOFTENER DETAIL

NO SCALE

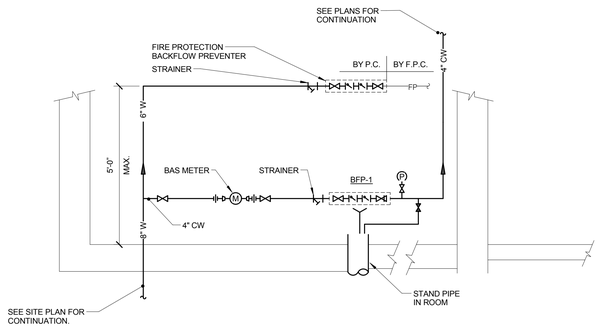


3 INSTANTANEOUS WATER HEATER PIPING DETAIL

NO SCALE

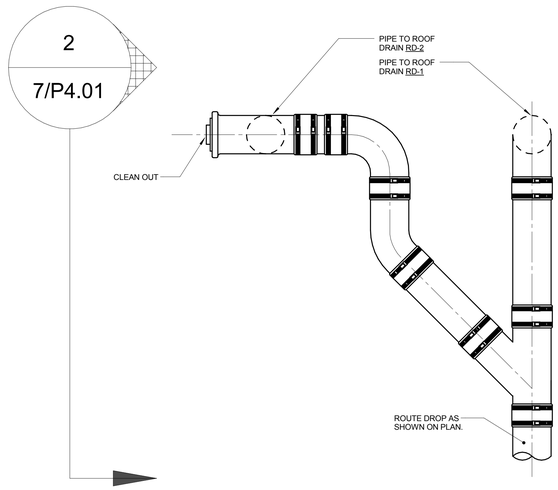
NOTES:

1. TEMPERATURE AND PRESSURE RELIEF VALVE IS REQUIRED FOR ALL MOP BASINS.
2. INSTALL STRAINER UPSTREAM OF WATER HEATER.

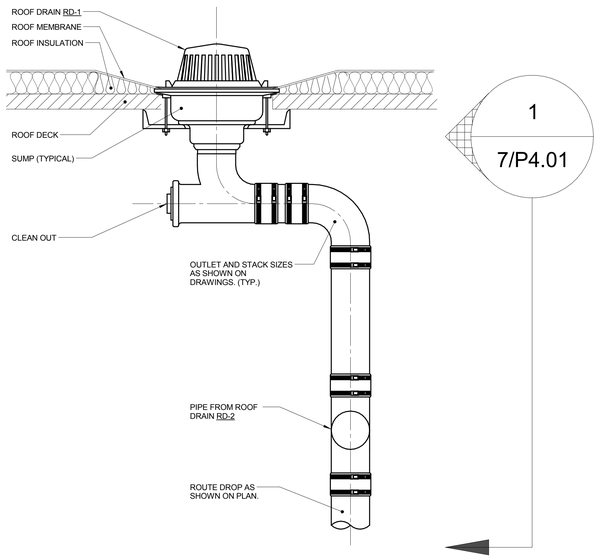


6 DOMESTIC WATER ENTRANCE

NO SCALE



SECTION 1

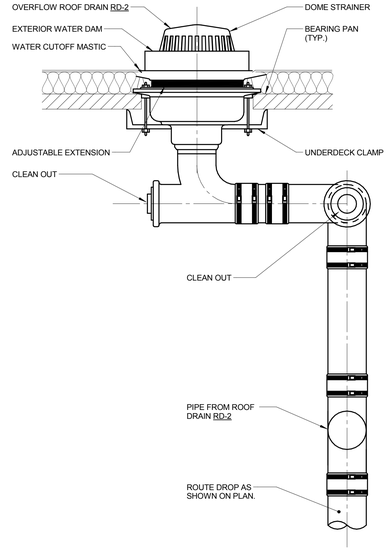


7 ROOF DRAIN DETAIL

NO SCALE

NOTES:

1. DETAIL ABOVE IS DIAGRAMMATIC ONLY.REFER TO FLOOR PLANS FOR EXACT ROUTING REQUIREMENTS AND TIE-IN LOCATIONS.



SECTION 2

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P4.01

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PLUMBING MATERIAL LIST

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

BFP-1 (DOMESTIC COLD WATER MAIN)

BACK FLOW PREVENTER - 4" REDUCED PRESSURE ZONE, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, GATE STYLE VALVES FOR 2 1/2"-10", AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED.

ACCEPTABLE MANUFACTURERS: WATTS (LF919 / 994), WILKINS (975XL2 / 375AST), CONBRACO (RPLF4A)

MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.

BFP-2 (HEATING PLANT MAKE-UP WATER)

BACK FLOW PREVENTER - 1" REDUCED PRESSURE ZONE, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, BALL STYLE SHUTOFF VALVES FOR 3/4"-2", AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33° F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED.

ACCEPTABLE MANUFACTURERS: WATTS (LF919 / 994), WILKINS (975XL2 / 375AST), CONBRACO (RPLF4A)

MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.

BFP-3 (ICE MACHINES)

BACK FLOW PREVENTER - DUAL CHECK, LEAD FREE STAINLESS STEEL BODY, HEAVY DUTY FDA APPROVED RUBBER DIAPHRAGMS, 3/8" SIZE, RATED FOR 150 PSI AT 33°F TO 110°F, APPROVED BY ASSE 1032.

ACCEPTABLE MANUFACTURERS: WATTS (SD-2)

BFP-4 (WATER SOFTENER)

BACK FLOW PREVENTER - DOUBLE CHECK, LEAD FREE BRONZE, EPOXY COATED CAST IRON OR STAINLESS STEEL CONSTRUCTION, SAME SIZE AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, BALL STYLE SHUTOFF VALVES FOR 3/4"-2" AND GATE STYLE VALVES FOR 2 1/2"-10", TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, RATED FOR 175 PSI AT 33°F TO 140°F, 8 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 1015, IAPMO AND SBCCI LISTED.

MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.

ACCEPTABLE MANUFACTURERS: WATTS (757), WILKINS (350)

CP-1 (HW110)

CIRCULATING PUMP - LEAD FREE BRONZE CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, OPEN DRIP-PROOF NON OVERLOADING MOTOR WITH THERMAL OVERLOAD PROTECTION, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.

23.2 GPM @ 65 FEET OF HEAD. MOTOR SHALL BE 1.5 HP OPERATING AT 3450 RPM.

ACCEPTABLE MANUFACTURERS: B&G (3540), TACO (OO SERIES), GRUNDFOS (UP SERIES)

AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS.

ACCEPTABLE MANUFACTURERS: HONEYWELL, WHITE-RODGERS, JOHNSON CONTROLS, SAME AS PUMP MANUFACTURER

ELECTRICAL REQUIREMENTS - 460V-3 PHASE (HARD-WIRE)

CP-1 (HW140)

CIRCULATING PUMP - LEAD FREE BRONZE CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, OPEN DRIP-PROOF NON OVERLOADING MOTOR WITH THERMAL OVERLOAD PROTECTION, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.

2

2.5 GPM @ 10 FEET OF HEAD. MOTOR SHALL BE 1/2 HP OPERATING AT 3450 RPM.

ACCEPTABLE MANUFACTURERS: B&G (ECOCIRC_XL), TACO (OO SERIES), GRUNDFOS (UP SERIES)

AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS.

ACCEPTABLE MANUFACTURERS: HONEYWELL, WHITE-RODGERS, JOHNSON CONTROLS, SAME AS PUMP MANUFACTURER

ELECTRICAL REQUIREMENTS - 120V-1 PHASE (HARD-WIRE)

ET-1

EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, ASME STAMPED, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING.

2

TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. MINIMUM TANK VOLUME TO BE 14 GALLONS, MINIMUM ACCEPTING VOLUME TO BE 9 GALLONS. FACTORY PRE-CHARGED TO 55 PSIG.

ACCEPTABLE MANUFACTURERS: AMTROL ST-30VC (THERM-X-TROL), TACO (PAX SERIES), WESSELS (TX), ELBI (DT)

DF-1

DRINKING FOUNTAIN- WALL HUNG, ADA COMPLIANT WITH APRON INSTALLED UNDER UPPER UNIT, BI-LEVEL STAINLESS STEEL ROUND BASIN WITH STAINLESS STEEL FINISH, PERFORATED DRAIN, STREAM PROJECTOR WITH PROTECTIVE HOOD, PUSH BUTTON OPERATING CONTROL ON FRONT, BUILT-IN FLOW REGULATOR, BOTTLE FILLER, DRAIN AND TRAP ASSEMBLY, ADA COMPLIANT, UNIT SHALL CONFORM TO ANSI A117.1-1986. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION.

BOTTLE FILLING STATION - RECESSED MOUNTED ABOVE LOWER BASIN, STAINLESS STEEL CONSTRUCTION AND FINISH, 1 1/4" DRAIN, 1/2" COLD WATER INLET, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, ADJUSTABLE THERMOSTAT, FILTER REPLACEMENT INDICATOR, CORD AND PLUG CONNECTION.

ACCEPTABLE MANUFACURERS: ELKAY (LZWS-EDFPBM117K), HALSEY TAYLOR (OVL-II-SEBP-FR), HAWS (1011MS)

ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR. BOTTOM OF APRON SHALL BE AT 27" ABOVE FINISHED FLOOR IN COMPLIANCE WITH ADA SECTIONS 4.4 AND 4.15.

PLUMBING MATERIAL LIST (CONTINUED)

FCO-1

FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:

UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP
TILE OR TERRAZZO -ROUND RECESSED TOP
CARPET - ROUND TOP WITH CARPET MARKER

ACCEPTABLE MANUFACTURERS: ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200

FD-1

FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND, 4" BOTTOM OUTLET, FLASHING COLLAR, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS: ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100)

FD-2

FLOOR DRAIN - ACID RESISTANT, POLYPROPYLENE BODY, POLYPROPYLENE GRATE, 8" ROUND, 4" BOTTOM OUTLET, FLASHING CLAMP, 1/2" TRAP PRIMER CONNECTION, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS: ORION (AWFDSTD), ZURN (Z9A-FD), WATTS (FD1-BAS), IPEX (ENFIELD SERIES F1000)

FS-1

FLOW SENSOR - FLOW SENSOR MODULE THAT RECIEVES SIGNALS FROM INDIVIDUAL FLOW CHANNEL SENSORS LOCATED IN SECONDARY STORM SYSTEM PIPING. UNIT REQUIRES 120V AC 60 HZ LINEAR POWER SUPPLY AND OUTPUTS A 12V DC SIGNAL TO THE FLOW SENSOR BMS INTERFACE UNIT (FSI-1). CONTRACTOR SHALL PROVIDE WITH OPTIONAL 12V BATTERY BACKUP AND OPTIONAL 3 HOUR RESET TIMER. CONTRACTOR SHALL INSTALL INDIVIDUAL PIPE FLOW CHANNEL SENSORS PER MANUFACTURERS INSTRUCTION. FLOW CHANNEL SENSORS AND CORRESPODING MODULES ARE LOCATED ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING FROM INDIVIDUAL PIPE CHANNEL SENSORS TO THE FLOW SENSOR MODULE AND FROM THE FLOW SENSOR MODULE TO THE FLOW SENSOR INTERFACE UNIT.

ACCEPTABLE MANUFACTURERS: FROET (7000 FLOW SENSOR)

FSI-1

FLOW SENSOR INTERFACE - FLOW SENSOR INTERFACE THAT COMMUNICATES FROM EACH INDIVIDUAL FLOW SENSOR MODULE (FS-1) TO THE BUILDING AUTOMATION SYSTEM. UNIT REQUIRES 120V AC 60 HZ LINEAR POWER SUPPLY AND OUTPUTS A 12V DC SIGNAL TO THE BUILDING AUTOMATION SYSTEM.

ACCEPTABLE MANUFACTURERS: FROET (7000 BMS INTERFACE)

2

HB-1

HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 APPROVED AND LISTED.

ACCEPTABLE MANUFACTURERS: WOODFORD (B67), ZURN (Z1300), JOSAM (71000), WATTS (HY-725), PRIER (C-534-WB), MIFAB (MHY-20), SMITH (5509QT)

VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. BOX COVER AND HYDRANT SHALL USE A COMMON KEY. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.

HB-2

HOSE BIBB - FREEZELESS ROOF HYDRANT, ONE PIECE VARIABLE FLOW PLUNGER WITH ROD GUIDE, BUILT-IN VENT FOR AUTOMATIC DRAINING, CAST IRON FLANGED HYDRANT SUPPORT WITH UNDER-DECK FLANGE, WELL SEAL BETWEEN SUPPORT AND HYDRANT PIPE WITH EDPM BOOT COVER.

ACCEPTABLE MANUFACTURERS: WOODFORD (RHY2), PRIER (P-RH2)

PROVIDE WITH ASSE 1052 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.

HB-3

HOSE BIBB - FREEZELESS YARD HYDRANT, RECESSED, BRASS CONSTRUCTION, STANDARD FINISH, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD.

VERIFY NUMBER OF KEY OPERATORS REQUIRED WITH OWNER. BOX COVER AND HYDRANT SHALL USE A COMMON KEY. BURY AT A DEPTH OF 60" TO ASSURE PLUNGER AND DRAIN HOLE ARE BELOW FROST LINE. INSTALL WITH 1/2" GRAVEL 12" AROUND DRAIN HOLE.

ACCEPTABLE MANUFACTURERS: WOODFORD (Y95), ZURN (Z-1370), JOSAM (71600), SMITH (5810), MIFAB (MHY-60)

HB-4

HOSE BIBB - INDOOR WALL HYDRANT, BRASS CONSTRUCTION, STANDARD FINISH, VACUUM BREAKER, 3/4" MALE HOSE THREAD, METAL WHEEL HANDLE.

MOUNT AT 36" ABOVE FINISHED FLOOR.

ACCEPTABLE MANUFACTURERS: WOODFORD (24), CHICAGO FAUCET (293), ACORN (8121), PRIER (C-135AS), T&S BRASS (B-0736), MIFAB (MHY-90)

L-1 (LOCKER ROOM LAVATORIES)

LAVATORY - UNDER-COUNTER MOUNTED, WHITE VITREOUS CHINA, 19"x16" O.D. OVAL BOWL, FRONT OVERFLOW.

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (0496.221), KOHLER (K-2210), GERBER (12-780), SLOAN (SS-3001), TOTO (LT569), ZURN (Z5220)

LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.

ELECTRICAL REQUIREMENTS - 120 VAC INPUT

ACCEPTABLE MANUFACTURERS: DELTA (590T0), AMERICAN STANDARD (6059.102), CHICAGO FAUCET (116.706.AB.1), HYDROTEK (H-2603C-LR), MOEN (8302), SLOAN (ETF-610), SPEAKMAN (S-8800), ZURN (Z6913-XL)

MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.

MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.

INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES.

ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.

COORDINATE OPENINGS REQUIRED IN COUNTERTOP. FIELD CUT OPENINGS WILL NOT BE ACCEPTABLE. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.

L-2 (PUBLIC TOILET ROOMS)

LAVATORY - PROVIDED AND INSTALLED BY OTHERS. STRAINER AND TAILPIECE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR.

LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.

ELECTRICAL REQUIREMENTS - 120 VAC INPUT

ACCEPTABLE MANUFACTURERS: DELTA (590T0), AMERICAN STANDARD (6059.102), CHICAGO FAUCET (116.706.AB.1), HYDROTEK (H-2603C-LR), MOEN (8302), SLOAN (ETF-610), SPEAKMAN (S-8800), ZURN (Z6913-XL)

MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.

MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.

INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES.

ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.

COORDINATE OPENINGS REQUIRED IN COUNTERTOP. FIELD CUT OPENINGS WILL NOT BE ACCEPTABLE. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.

PLUMBING MATERIAL LIST (CONTINUED)

LI-1

LINT INTERCEPTOR - WELDED HEAVY DUTY STEEL BODY, OPEX SHOP COAT COATING INSIDE AND BITUMINOUS COATING OUTSIDE, VISIBLE DOUBLE WALL OUTSIDE TRAP SEAL, EASILY REMOVABLE FILTER, REMOVABLE 3/8" NON SKID DIAMOND THREAD PLATE COVER, HEAVY DUTY LEAK PROOF GASKET.

HOLDING CAPACITY SHALL BE 50 GALLONS.

PROVIDE EXTENSIONS AS REQUIRED FOR IN-FLOOR INSTALLATIONS.

ACCEPTABLE MANUFACTURERS: ROCKFORD SANITARY SYSTEMS (RLS-2824)

MB-1

MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES.

ACCEPTABLE MANUFACTURERS: FIAT (TSB), ACORN (TSH), CREATIVE INDUSTRIES (MC), WILLIAMS (SB)

TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874.

ACCEPTABLE MANUFACTURERS: DELTA (28C2393), AMERICAN STANDARD (8344.012), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN (Z841M1-XL)

ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP

CONTRACTOR SHALL PROVIDE EACH MOP BASIN WITH A BACKFLOW PREVENTER DESIGNED TO BE USED ON A COMBINATION HOT AND COLD WATER OUTLET. 3/4" HOSE THREADS. BACKFLOW PREVENTER DESIGNED FOR MOP BASIN IN JANITORS CLOSET WHERE CHEMICAL DISPENSERS ARE PRESENT.

ACCEPTABLE MANUFACTURERS: ECOLAB (QUIK FILL SIDE KICK) OR APPROVED EQUAL.

MV-1

MIXING VALVE - HI/LO MASTER THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH BRASS FINISH, UNION INLETS WITH STRAINERS, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES, DIAL THERMOMETER ON OUTLET AND INLETS.

RATED FOR 47 GPM OUTPUT MAXIMUM AT 10 PSI DIFFERENTIAL AND 1 GPM OUTPUT MINIMUM BASED UPON CONTINUOUS RECIRCULATION. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. .

ACCEPTABLE MANUFACTURERS: LEONARD (TM-LF SERIES), ACORN CONTROLS (SFMV SERIES), APOLLO (34HL), BRADLEY (HL SERIES), LAWLER (800 SERIES), POWERS (LFSH1430/LFMM430 SERIES), SYMMONS (TEMPCONTROL SERIES 7)

PROVIDE FIELD ADJUSTMENT BY FACTORY AUTHORIZED REPRESENTATIVE. UNIT SHALL SHALL BE ASSE 1017 LISTED AND APPROVED. ASSEMBLY SHALL COMPLY WITH FEDERAL ACT S.3874.

RD-1

ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.

ACCEPTABLE MANUFACTURERS: ZURN (Z-100), SMITH (1010), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200)

RD-2

ROOF DRAIN - ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, EXTENSION TO MATCH INSULATION THICKNESS, 2" TALL EXTERNAL WATER DAM, OUTLET SIZE AS LISTED ON DRAWINGS.

INSTALL FROET FLOW SENSOR DOWNSTREAM OF INITIAL ELBOW IN HORIZONTAL PIPING. INSTALL PER MANUFACTURERS INSTRUCTIONS.

ACCEPTABLE MANUFACTURERS: ZURN (Z-100), SMITH (1080), WADE (3000), WATTS (RD-300), MIFAB (R1200)

SH-1

SHOWER VALVE - SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, POLISHED CHROME CAST METAL LEVER HANDLE, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LISTED.

ACCESSORIES - CHROME-PLATED PLASTIC SHOWERHEAD WITH SWIVEL BALL JOINT, ADJUSTABLE SPRAY, CHROME-PLATED BRASS ARM AND FLANGE.

ACCEPTABLE MANUFACTURERS - SYMMONS (1-100), AMERICAN STANDARD (T675.501), DELTA (R10000-UNWS/T13H122), LEONARD (PAM-II), POWERS (PB413-K1)

INSTALL BOTTOM OF SHOWERHEAD AT 72" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 2.0 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.

FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100)

SH-2

SHOWER VALVE - ACCESSIBLE, SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP. ASSE 1016 LISTED.

ACCESSORIES - CHROME-PLATED BRASS SHOWERHEAD WITH SWIVEL BALL JOINT, CHROME-PLATED BRASS ARM AND FLANGE, HAND HELD SHOWER WITH 60"CHROME-PLATED METAL HOSE AND QUICK DISCONNECT, CHROME-PLATED BRASS SWIVEL CONNECTOR, 36" CHROME-PLATED MOUNTING RAIL, CHROME-PLATED BRASS SUPPLY ELBOW FLANGE, CHROME-PLATED IN-LINE VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES, CHROME-PLATED BRASS 2 FUNCTION TRANSFER VALVE..

ACCEPTABLE MANUFACTURERS - MOEN COMMERCIAL (8342), SYMMONS (1-117-FS), AMERICAN STANDARD (1662.223), DELTA (R10700-UNWS/T13H323-20), LEONARD (PAM-II), POWERS (PB413-9)

INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM OF SHOWERHEAD AT 66" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 2.0 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.

FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100)

SK-1

SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 19 1/2" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, 18" x 14" x 6-1/2" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER.

ACCEPTABLE MANUFACTURERS: ELKAY (LRAD/LKAD18), JUST (SL-ADA/J-ADA-35)

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 8" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET (786), AMERICAN STANDARD (7230.000), MOEN (8225), SPEAKMAN (SC-3000 SERIES), ZURN (Z831-XL)

MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

INSULATION KIT - MCGUIRE (PROWRAP), JUST (J-ADA), PLUMBEREX (PRO-EXTREME), TRUEBRO (LAV-GUARD2)

SK-2

SINK - SINK - SELF-RIMMING EXTRA DEEP SINGLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW, 18 GAUGE TYPE 304 STAINLESS STEEL, 31" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 10-1/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.

ACCEPTABLE MANUFACTURERS: ELKAY (DLR/LK99), JUST (SLX/JB-99)

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SWING SPOUT, NOMINAL 8" REACH, AERATOR, LEVER BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: DELTA (27C2), AMERICAN STANDARD (7270.000), CHICAGO FAUCET (786), KOHLER (K-7761), SYMMONS (S-254), ZURN (Z831-XL)

MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

INSULATION KIT - MCGUIRE (PROWRAP), JUST (J-ADA), PLUMBEREX (PRO-EXTREME), TRUEBRO (LAV-GUARD2)

PLUMBING MATERIAL LIST (CONTINUED)

SK-2

SINK - SINK - SELF-RIMMING EXTRA DEEP SINGLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW, 18 GAUGE TYPE 304 STAINLESS STEEL, 25" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, 21" x 15-3/4" x 10-1/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.

ACCEPTABLE MANUFACTURERS: ELKAY (DLR/LK99), JUST (SLX/JB-99)

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SWING SPOUT, NOMINAL 8" REACH, AERATOR, LEVER BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: DELTA (27C2), AMERICAN STANDARD (7270.000), CHICAGO FAUCET (786), KOHLER (K-7761), SYMMONS (S-254), ZURN (Z831-XL)

MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

INSULATION KIT - MCGUIRE (PROWRAP), JUST (J-ADA), PLUMBEREX (PRO-EXTREME), TRUEBRO (LAV-GUARD2)

2

SP-1

SUMP PUMP - DUPLEX SUBMERSIBLE, SINGLE-STAGE, CENTRIFUGAL, END-SUCTION PUMPS, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED.

CASING: CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 1 1/4" VERTICAL DISCHARGE. IMPELLER: CAST IRON STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 1/2" SOLIDS MINIMUM.

SHAFT: STEEL OR STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL.

MOTOR: 1/2 HP MAX., 115VOLTS, 1 PHASE, 1750 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE OF SUFFICIENT LENGTH WITH GROUNDING PLUG.

CAPACITY: 50 GPM, 25 FEET OF HEAD.

ACCEPTABLE MANUFACTURERS: ZOELLER (140 SERIES), BARNES (BP), GOULDS (WE), STA-RITE (EC),

CONTROLS - OIL SENSING PUMP SWITCH WITH HIGH WATER ALARM, NEMA 4X ENCLOSURE,HIGH WATER FLOAT/CONTACT SWITCH WITH WATER PROOF CABLE OF SUFFICIENT LENGTH, HORN, STROBE, SILENCING BUTTON, DRY CONTACTS, 6 FOOT POWER CORD, UL LISTED.

ELECTRICAL REQUIREMENTS - 115V RECEPTACLE

ACCEPTABLE MANUFACTURERS: SAME AS MANUFACTURER

BASIN - PROVIDED BY OTHERS

TD-1

TRENCH DRAIN - LOW PROFILE TRENCH SYSTEM FOR SHOWERS, 36" TRENCH LENGTH, PRE-SLOPED, TYPE 304 STAINLESS STEEL CHANNEL, MEMBRANE CLAMP, REMOVABLE STAINLESS STEEL GRATE WITH HORIZONTAL SLOTS, 2" OUTLET CONNECTION AT END OF TRENCH.

ACCEPTABLE MANUFACTURERS: BLUCHER (BWS SERIES) OR APPROVED EQUAL

UR-1

URINAL - WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ULTRA HIGH EFFICIENCY RATED FOR 0.125 GPF, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (6590.001), SLOAN (SU-1000), ZURN (Z5798)

FLUSH VALVE - EXPOSED, SENSOR OPERATION, HARD WIRED, 0.125 GALLON PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, RANGE ADJUSTMENT SCREW, CHROME-PLATED COVER PLATE WITH TAMPER-PROOF SCREWS,TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.

ACCEPTABLE MANUFACTURERS: ZURN (ZEMS6003AV-ULF), SLOAN (186-0.13 ES-S), AMERICAN STANDARD (6062.013), HYDROTEK (H8-B1.125), MOEN (8316AC)

ELECTRICAL REQUIREMENTS - 120VAC INPUT

CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN

ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.

MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 22" ABOVE FLOOR. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.

UR-2

URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ULTRA HIGH EFFICIENCY RATED FOR 0.125 GPF, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET.

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (6590.001), SLOAN (SU-1000), ZURN (Z5798)

FLUSH VALVE - FLUSH VALVE - EXPOSED, SENSOR OPERATION, HARD WIRED, 0.125 GALLON PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, RANGE ADJUSTMENT SCREW, BEAM DEFLECTOR, CHROME-PLATED COVER PLATE WITH TAMPER-PROOF SCREWS,TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.

ACCEPTABLE MANUFACTURERS: ZURN (ZEMS6003AV-ULF), SLOAN (186-0.13 ES-S), AMERICAN STANDARD (6062.013), HYDROTEK (H8-B1.125), MOEN (8316AC)

ELECTRICAL REQUIREMENTS - 120VAC INPUT

CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN

ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.

MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. FLUSH HANDLE SHALL BE AT 44" (MAXIMUM) ABOVE FLOOR AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.

WC-1

WATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD.

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (2257.001), SLOAN (ST-2050), ZURN (Z5615), KOHLER (K-4325), TOTO (CT708E)

FLUSH VALVE - FLUSH VALVE - EXPOSED, WALL MOUNTED SENSOR OPERATION, HARDWIRED, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH IN, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, CHROME PLATED COVER PLATE WITH TAMPER-PROOF SCREWS, TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE, ADA COMPLIANT, 3 YEAR WARRANTY.

ACCEPTABLE MANUFACTURERS: ZURN (ZEMS6000AV-HET), SLOAN (ROYAL 111-1.28 ESS), AMERICAN STANDARD (6067.121), HYDROTEK (H8-128), MOEN (8311AC12), TOTO

ELECTRICAL REQUIREMENTS - 120VAC INPUT

SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.

ACCEPTABLE MANUFACTURERS: BEMIS (3155C), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER

CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN

ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.

MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.

PLUMBING MATERIAL LIST (CONTINUED)

WC-2

WATER CLOSET - ACCESSIBLE, WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (2257.001), SLOAN (ST-2050), ZURN (Z5615), KOHLER (K-4325), TOTO (CT708E)

FLUSH VALVE - FLUSH VALVE - EXPOSED, WALL MOUNTED SENSOR OPERATION, HARDWIRED, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH IN, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, CHROME PLATED COVER PLATE WITH TAMPER-PROOF SCREWS,TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE,ADA COMPLIANT, 3 YEAR WARRANTY.

ELECTRICAL REQUIREMENTS - 120VAC INPUT

ACCEPTABLE MANUFACTURERS: ZURN (ZEMS6000AV-HET), SLOAN (ROYAL 111-1.28 ESS), AMERICAN STANDARD (6067.121), HYDROTEK (H8-128), MOEN (8311AC12), TOTO

SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.

ACCEPTABLE MANUFACTURERS: BEMIS (3155C), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER

CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN

ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.

MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.

WCO-1

WALL CLEANOUT - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.

ACCEPTABLE MANUFACTURERS: ZURN (Z-1441), SMITH (4422), WADE (W-8480-R/8550), JOSAM (58600-CO), WATTS (CO-380-RD)

WH-1

WATER HEATER - GAS FIRED, VERTICAL, MINIMUM 94% EFFICIENT, SEALED COMBUSTION, METAL CABINET, BAKED ENAMEL FINISH, GLASS-LINED ASME STAMPED WELDED STEEL TANK, 160 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MULTIPLE MAGNESIUM ANODE RODS, VENT PIPING KIT, HIGH TEMPERATURE GAS SHUT OFF, AUTOMATIC WATER THERMOSTAT, BUILT-IN GAS REGULATING VALVE, ADJUSTABLE TEMPERATURE RANGE, CONDENSATE DRAIN NEUTRALIZATION KIT, 3-YEAR WARRANTY, UL LISTED, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A.

120 GALLON CAPACITY, 499,900 BTUH INPUT NATURAL GAS, 576 GPH RECOVERY AT 100°F RISE.

ACCEPTABLE MANUFACTURERS: A.O. SMITH (CYCLONE Xi BTH), BOCK (OT SERIES), BRADFORD WHITE (EF SERIES), HTP (PHOENIX PLUS), RHEEM (GHE), STATE (SUF)

ELECTRICAL REQUIREMENTS - 120V CIRCUIT FOR BLOWER AND CONTROLS, HARD-WIRED

SET WATER TEMPERATURE AT140°F. SET SUPPLY GAS PRESSURE AT 10" W.C.

WH-2

WATER HEATER - ELECTRIC INSTANTANEOUS POINT-OF-USE (FOR MOP BASIN), HIGH STRENGTH REINFORCED PLASTIC BODY, 1/2" COMPRESSION FITTINGS, THERMOSTATICALLY CONTROLLED, ENCLOSED CONTROLS, FULLY ADJUSTABLE THERMOSTAT (100-140°F), HIGH TEMPERATURE LIMIT SWITCH, 150 PSI WORKING PRESSURE, REPLACEABLE ELEMENT, 1-YEAR WARRANTY ON ELEMENT, 5-YEAR WARRANTY ON HEATER BODY/ELEMENT ASSEMBLY, UL LISTED.

41°F RISE AT 3 GPM, 18 KW ELEMENT, 22 AMPS/PHASE - TURN ON AT 0.5 GPM OR LESS

ACCEPTABLE MANUFACTURERS: EEMAX (PAO18277T2T), BRADFORD WHITE (EFT), CHRONOMITE (S)

ELECTRICAL REQUIREMENTS - 480V-3 PHASE, HARD-WIRED

MOUNT WATER HEATER ON WALL ADJACENT TO MOP BASIN. SET OUTPUT WATER TEMPERATURE TO 140°F.

WHA-1

WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 1-11 FIXTURE UNITS.

ACCEPTABLE MANUFACTURERS: ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WHA-2

WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 33-60 FIXTURE UNITS.

ACCEPTABLE MANUFACTURERS: ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WHA-3

WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 61-113 FIXTURE UNITS.

ACCEPTABLE MANUFACTURERS: ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WMF-1

WASHING MACHINE FIXTURE - GALVANIZED STEEL ENCLOSURE, 2" CENTER DRAIN, TWO INDEXED 1/2" DOMESTIC VALVES WITH THREADED OUTLETS.

ACCEPTABLE MANUFACTURERS: GUY GRAY (B200 SERIES)

WS-1

WATER SOFTENER - AUTOMATIC REGENERATION TYPE, DUPLEX SOFTENER TANKS, POWER SUPPLY WITH CORD AND PLUG.

CONTINUOUS FLOW RATE OF 45 GPM AT 15 PSI PRESSURE DROP, MAXIMUM FLOW RATE OF 60 GPM AT 25 PSI PRESSURE DROP, MINIMUM CAPACITY OF 80,000 GRAINS PER TANK.

ACCEPTABLE MANUFACTURERS: CULLIGAN HCE-120-2

ELECTRICAL REQUIREMENTS - 120V-1 PHASE RECEPTACLE

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

YCO-1

YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.

ACCEPTABLE MANUFACTURERS: ZURN (Z1474), SMITH (4261), WADE (W-8300), JOSAM (58680), WATTS (CO-300)

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
PLUMBING MATERIAL LIST

SHEET NUMBER:
P5.00

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
IBT	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
(E) E	ECONN	26 05 33	ELECTRICAL CONNECTION
(J) J	JB	26 05 33	JUNCTION BOX
	FB-1	26 05 33	FLOOR BOX - DUPLEX RECEPTACLE
	FB-2	26 05 33	FLOOR BOX - DUAL COMPARTMENT
	FB-3	26 05 33	FLOOR BOX - MULTI SERVICE
WW-#	WW-#	26 05 35	ELECTRICAL WIREWAY w/ DEVICES SHOWN
DPM	DPM	26 24 13	DIGITAL POWER METER
ES	ES	26 09 16	EMERGENCY STOP, BOILER
EPO	EPO	26 09 16	EMERGENCY STOP
ST	ST	26 09 16	SHUNT TRIP
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
MX-#/MS-#	MX-#/MS-#	26 24 19	MANUAL SWITCH / STARTER
DS-#	DS-#	26 28 16	DISCONNECT
TR-#	TR-#	26 22 00	TRANSFORMER
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	REC-SIM-L530R	26 27 26	RECEPTACLE, LOCKING TYPE, L5-30R, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
R	REC-REMOTE	26 27 26	REMOTE CONTROLLED RECEPTACLE,125V
S	SW-1P	26 27 26	SWITCH - SINGLE POLE
S_T	SW-1P-ADJ	26 27 26	SWITCH - LOCAL TIMER - USER ADJUSTABLE
S_P	SW-1P-PL	26 27 26	SWITCH - PILOT LIGHT
S_K	SW-1P-K	26 27 26	SWITCH - SINGLE POLE - KEY LOCK
S_M	SW-1P-M	26 27 26	SWITCH - MOMENTARY CONTACT
S_3	SW-3W	26 27 26	SWITCH - THREE WAY
LS	SW-LS	26 27 26	DAYLIGHT LEVEL SENSOR
PC	SW-LS-PC	26 27 26	PHOTOCELL
OC D	SW-OC-D	26 27 26	OCCUPANCY SENSOR - DUAL TECHNOLOGY
VS D	SW-VS-D	26 27 26	VACANCY SENSOR - DUAL TECHNOLOGY
S_V	SW-OC-P-0	26 27 26	SWITCH - VACANCY SENSOR WALL SWITCH
2B	SW-CS-2B	26 27 26	CONTROL STATION
D	SW-CS-D	26 27 26	DIMMER CONTROL STATION (LMDM-101)
5B	SW-CS-D-5B	26 27 26	DIMMER CONTROL STATION (LMSW-105)
GTD	SW-GTD	26 27 26	EMERGENCY TRANSFER DEVICE
	F#	26 51 00	LINEAR LUMINAIRES
	F#	26 51 00	TROFFER
	F#	26 51 00	WALL SCONCE LUMINAIRE
	F#	26 51 00	DOWNLIGHT LUMINAIRE
	X#	26 51 00	SINGLE FACE EXIT SIGN
	X#	26 51 00	DOUBLE FACE EXIT SIGN
TS	FH-TS	26 55 61	FIELD HOUSE LIGHTING CONTROL - TOUCH SCREEN
#B FH	FH-BS	26 55 61	FIELD HOUSE LIGHTING CONTROL - BUTTON STATION
ALCR	FH-ALCR	26 55 61	FIELD HOUSE LIGHTING CONTROL - AUTOMATIC LOAD CONTROL RELAY
LS FH	FH-LS	26 55 61	FIELD HOUSE LIGHTING CONTROL - DAYLIGHT LEVEL SENSOR
FH-LCP	FH-LCP	26 55 61	FIELD HOUSE - LIGHTING CONTROL PANEL
FH-RLY-H	FH-RLY-H	26 55 61	FIELD HOUSE - RELAY PANEL 480/277V
FH-RLY-L	FH-RLY-L	26 55 61	FIELD HOUSE - RELAY PANEL 208/120V
GTWY	FH-GTWY	26 55 61	FIELD HOUSE - GATEWAY
FH-HST	FH-HST	26 55 62	FIELD HOUSE - HOIST
SD	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
SD	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
H	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR
MM	FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE
AR	FA-161	28 31 00	FIRE ALARM ADDRESSABLE RELAY
V1 V3 V7 VH	FA-200	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
V1 V3 V7 VH	FA-201	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
AW W	FA-212	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED - WEATHERPROOF
A1 A3 A7 AH	FA-211	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
A	FA-230	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
A1 A3 A7 AH	FA-231	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
A H	FA-232	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - HIGH DB - CEILING MOUNTED
AH H	FA-233	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - HIGH DB - CEILING MOUNTED
RI	FA-241	28 31 00	FIRE ALARM REMOTE INDICATOR
SD	FA-250	28 31 00	FIRE ALARM SMOKE DAMPER - WALL MOUNTED
ARD	FA-251	28 31 00	SMOKE OR FIRE DAMPER CONTROLLER
FS	FA-260	28 31 00	FIRE ALARM FLOW SWITCH TO MONITOR FIRE PROTECTION SYSTEM
MS	FA-261	28 31 00	FIRE ALARM MONITOR SWITCH TO MONITOR FIRE PROTECTION SYSTEM
EB	FA-263	28 31 00	FIRE ALARM ELECTRONIC BELL FOR SPRINKLER SYSTEM
PP	PP	ARCH	PUSH PAD
HT-#	HT-#	26 05 17	HEAT TRACING CABLE (2)

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION:
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
DP-#	DISTRIBUTION PANEL	26 24 16
FAA-#	FIRE ALARM - ANNUNCIATOR	28 31 00
FAP-#	FIRE ALARM - CONTROL PANEL	28 31 00
LC-#	LIGHTING CONTACTOR, REFER TO CONTACTOR SCHEDULE	26 28 31
SB-#	SWITCHBOARD	26 24 13
SPD-#	SURGE PROTECTION DEVICE	26 43 00
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE	26 29 23
DTR-#	TRANSFORMER - DISTRIBUTION TYPE	26 12 19
UPC-#	UNIT POWER CONDITIONER	26 35 00

ELECTRICAL ABBREVIATIONS

ABBREVIATION:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
T.C.	TELECOMMUNICATIONS CONTRACTOR
V.C.	VENTILATION CONTRACTOR
AFF	ABOVE FINISHED FLOOR
CTs	CURRENT TRANSFORMERS
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NC	NEW CONNECTION
SV	SOLENOID VALVE
"#"	MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY BRANCH LUMINAIRE
	LIFE SAFETY BRANCH LUMINAIRE

FIRE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVIENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 AND 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS.

1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER	

ELECTRICAL GENERAL NOTES

1. "1/E4.00" INDICATES DETAIL NUMBER/SHEET NUMBER.
2. DS-30 INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
3. (#) INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
4. "NL" INDICATES LUMINAIRE IS CONNECTED TO A LIFE SAFETY BRANCH CIRCUIT AND IS UNSWITCHED FOR NIGHT LIGHT OPERATION.
5. "SE" INDICATES LUMINAIRE IS SWITCHED DURING NORMAL OPERATION. UPON LOSS OF POWER A LOCAL TRANSFER DEVICE SWITCHES THE LUMINAIRE POWER SOURCE TO AN EMERGENCY BRANCH CIRCUIT.
6. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
7. LUMINAIRE KEY:

   LUMINAIRE: F1 = FIXTURE TAG; 1 = CIRCUIT NUMBER; a = SWITCH NUMBER; NL = SUBSCRIPT (IF APPLICABLE)

   *IF LABEL IS ORIENTED HORIZONTALLY A / WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / A / NL

   *IF LUMINAIRE IS NOT PROVIDED WITH A SWITCH NUMBER, THIS LUMINAIRE SHALL BE CONTROLLED BY THE ONLY SWITCH PROVIDED IN THE ROOM / AREA.
8. DEVICE KEY:

   DEVICE: A = MOUNTING (IF APPLICABLE); 1 = CIRCUIT NUMBER

   *IF LABEL IS ORIENTED HORIZONTALLY A / WILL SEPARATE THIS INFORMATION. EX: A / 1
9. MOUNTING SUBSCRIPT KEY:

   RECEPTACLES OUTLETS:

   A MOUNT ABOVE COUNTER (+6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH)
   H MOUNT DEVICE IN A HORIZONTAL ORIENTATION
   TV COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY AND ARCHITECTURAL DRAWINGS.
10. A SLASH IS USED BETWEEN TWO SUBSCRIPTS ie: A/H REFER TO SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
11. LINE TYPE KEY:

    ——— NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

    – – – – NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)

    ——— NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

    – – – – – EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

ELECTRICAL INSTALLATION NOTES

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND THE ILLINOIS ACCESSIBILITY CODE.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES WILL BE RUN IN SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.
4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. LIGHTING CONTROL DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
5. FLUSH MOUNT ALL RECEPTACLES AND TELECOMMUNICATION OUTLETS AT + 18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
6. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
7. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND/OR SPEAKERS WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
9. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
10. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
12. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
13. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

SUGGESTED MATRIX OF SCOPE RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3., 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2., 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	E.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7., 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2., 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF SCOPE RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE CONTRACT DOCUMENTS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER (OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR) SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

ELECTRICAL SHEET INDEX

E0.00	ELECTRICAL COVER SHEET
E0.01	ELECTRICAL SITE PLAN
E1.11	LEVEL 1 PLAN - AREA 1 - LIGHTING
E1.12	LEVEL 1 PLAN - AREA 2 - LIGHTING
E1.13	LEVEL 1 PLAN - AREA 3 - LIGHTING
E1.21	LEVEL 2 PLAN - AREA 1 - LIGHTING
E1.22	LEVEL 2 PLAN - AREA 2 - LIGHTING
E1.23	LEVEL 2 PLAN - AREA 3 - LIGHTING
E2.11	LEVEL 1 PLAN - AREA 1 - POWER
E2.12	LEVEL 1 PLAN - AREA 2 - POWER
E2.13	LEVEL 1 PLAN - AREA 3 - POWER
E2.21	LEVEL 2 PLAN - AREA 1 - POWER
E2.22	LEVEL 2 PLAN - AREA 2 - POWER
E2.23	LEVEL 2 PLAN - AREA 3 - POWER
E2.30	OVERALL ROOF PLAN - ELECTRICAL
E2.40	ALTERNATE PLANS - ELECTRICAL
E3.11	LEVEL 1 PLAN - AREA 1 - SYSTEMS
E3.12	LEVEL 1 PLAN - AREA 2 - SYSTEMS
E3.13	LEVEL 1 PLAN - AREA 3 - SYSTEMS
E3.21	LEVEL 2 PLAN - AREA 1 - SYSTEMS
E3.22	LEVEL 2 PLAN - AREA 2 - SYSTEMS
E3.23	LEVEL 2 PLAN - AREA 3 - SYSTEMS
E4.00	ELECTRICAL DETAILS
E4.01	ELECTRICAL DETAILS
E4.02	ELECTRICAL DETAILS
E4.03	ELECTRICAL DETAILS
E5.00	ELECTRICAL SCHEDULES
E5.01	ELECTRICAL SCHEDULES
E5.10	ELECTRICAL PANEL SCHEDULES
E5.11	ELECTRICAL PANEL SCHEDULES
E5.12	ELECTRICAL PANEL SCHEDULES
E6.00	ELECTRICAL ONE LINE DIAGRAM NORMAL
E6.01	ELECTRICAL ONE LINE DIAGRAM - EMERGENCY

dka

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MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL COVER SHEET

SHEET NUMBER:
E0.00

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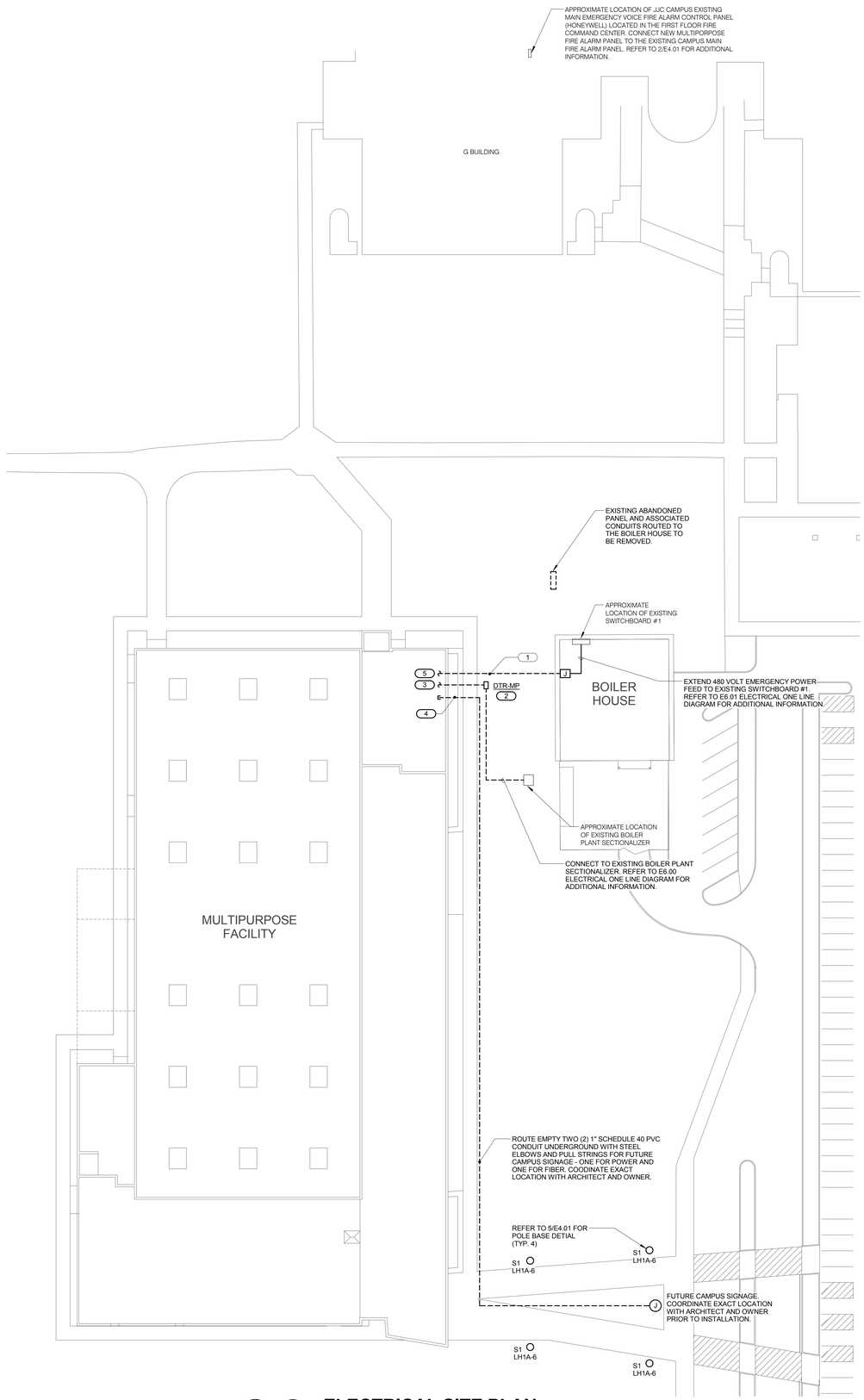
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.

KEYNOTES: (#)

1. THREE (3) NEW 3" RMC FROM EMERGENCY ELECTRICAL ROOM 1108B IN THE NEW MULTIPURPOSE FACILITY TO THE EXISTING BOILER HOUSE. ONE CONDUIT IS FOR THE 480 VOLT POWER FEED FOR THE MULTIPURPOSE EMERGENCY SYSTEM, ONE IS FOR THE TRANSFER SWITCH CONTROL WIRING, AND ONE IS SPARE. EXTEND CONDUIT FOR TRANSFER SWITCH WIRING AS NECESSARY TO TIE INTO THE EXISTING TRANSFER SWITCHES IN THE BOILER HOUSE.
2. LOCATE TRANSFORMER 3'-0" FROM EDGE OF WALKWAY. COORDINATE EXACT LOCATION WITH ARCHITECT. REFER TO 4/E4.00 FOR MEDIUM VOLTAGE TRANSFORMER PAD DETAIL.
3. ROUTE TO SB-1 IN ELECTRICAL ROOM 1108A. REFER TO E2.13 FOR LOCATION OF SB-1. REFER TO E6.00 ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4. STUB TO ELECTRICAL ROOM 1108A. CAP AND MARK CONDUIT FOR FUTURE USE.
5. EXTEND 480 VOLT EMERGENCY POWER FEED TO RACEWAY SERVING ATS-LS AND ATS-EQ IN EMERGENCY ELECTRICAL ROOM 1108B. REFER TO E2.13 FOR EQUIPMENT LOCATION. REFER TO E6.01 FOR ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.



1 ELECTRICAL SITE PLAN

1" = 30'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E0.01

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REFERENCE SCALE IN INCHES
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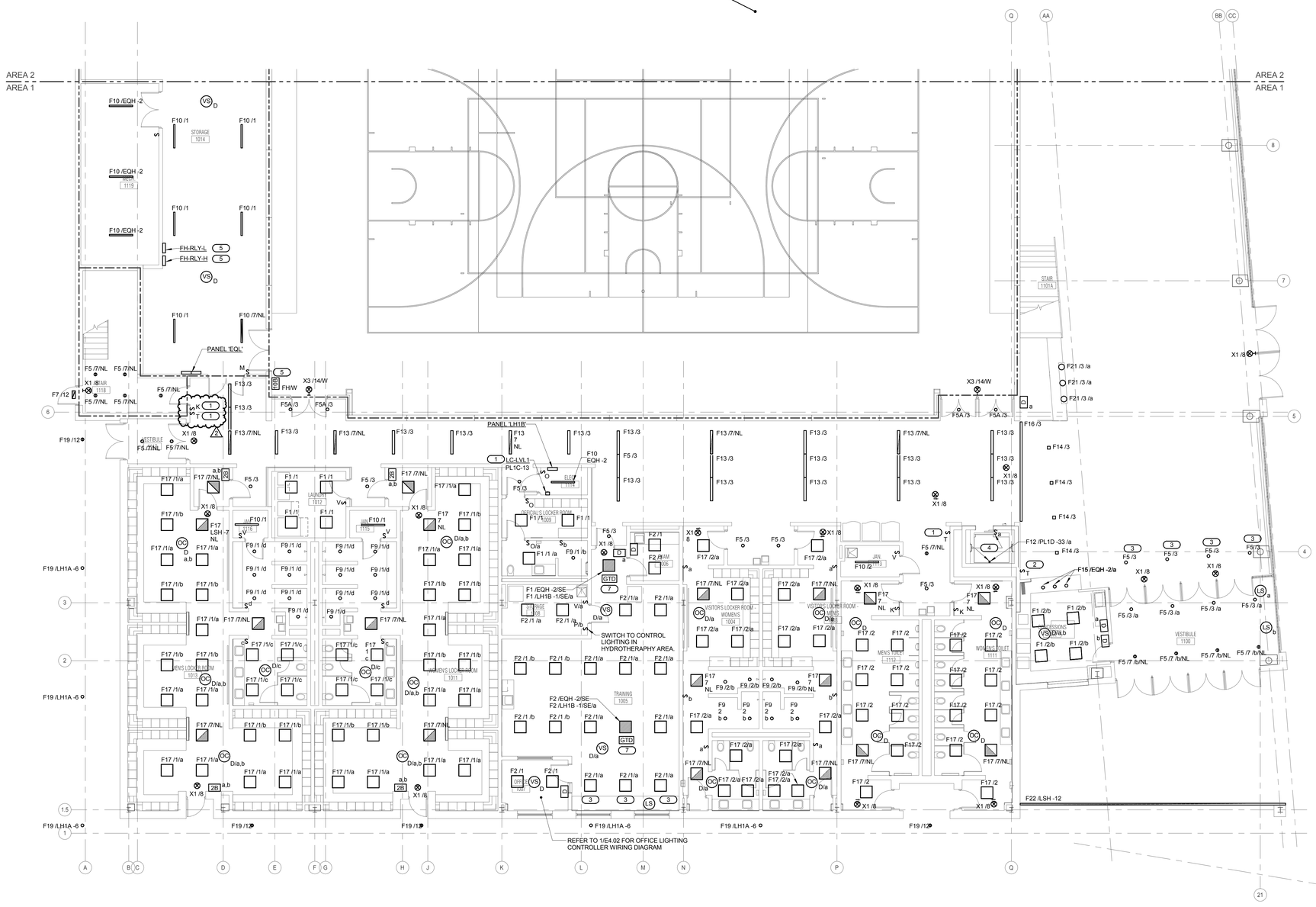
ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH1B', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.



LEVEL 1 PLAN - AREA 1 - LIGHTING

1/8" = 1'-0"

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEETS E5.10, E5.11, AND E5.12 FOR PANEL AND RELAY PANEL SCHEDULES.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO 6/E4.02 FOR FIRST FLOOR CORRIDOR LIGHTING CONTROL DIAGRAM.
2. REFER TO 7/E4.02 FOR MAIN CORRIDOR LIGHTING CONTROL DIAGRAM.
3. LUMINAIRE IS WITHIN THE DAYLIGHT ZONE AND SHALL BE CONTROLLED (CONTINUOUS DAYLIGHT DIMMING) BY THE LIGHT SENSOR IN ROOM.
4. MOUNT F12 VERTICALLY IN SHAFT, CENTERED 5'-0" ABOVE PIT FLOOR. COORDINATE EXACT LOCATION OF F12 AND SWITCH WITH ELEVATOR CONTRACTOR SO THAT THERE IS NO CONFLICT WITH MOVING EQUIPMENT.
5. REFER TO 1/E4.03 FOR FIELD HOUSE LIGHTING CONTROL DIAGRAM.
6. NOT USED.
7. REFER TO 4/E4.02 FOR GENERATOR TRANSFER DEVICE WIRING DIAGRAM.

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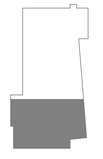
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - LIGHTING

SHEET NUMBER:
E1.11

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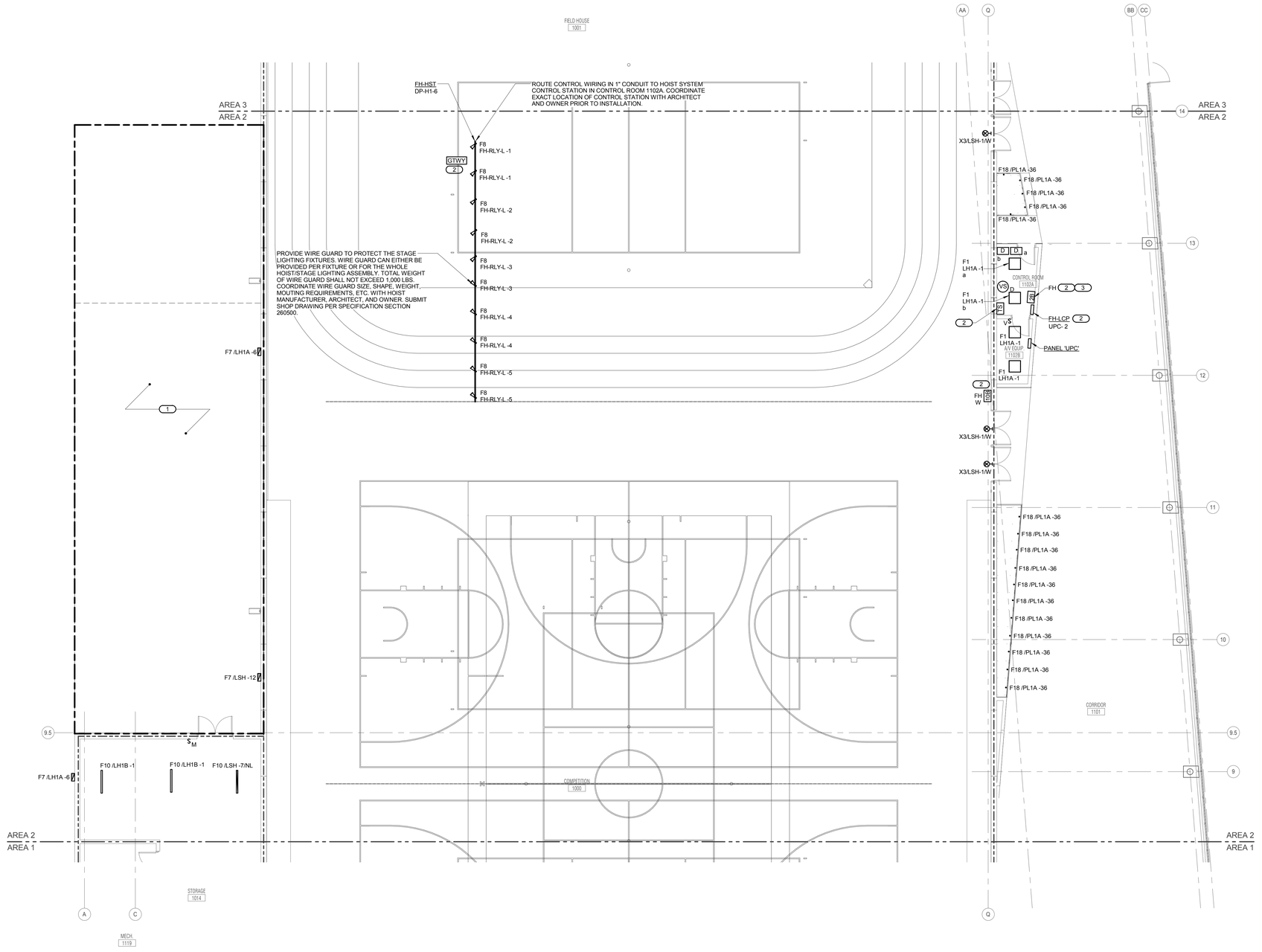

LEVEL 1 PLAN - AREA 2 - LIGHTING

1/8" = 1'-0"

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEETS E5.10, E5.11, AND E5.12 FOR PANEL AND RELAY PANEL SCHEDULES.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY. EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO SHEET E2.40 ALTERNATE PLANS - ELECTRICAL FOR SCOPE OF WORK TO BE INCORPORATED UNDER ALT BID #1, #2, AND # 3.
2. REFER TO 1/E4.03 FOR FIELD HOUSE LIGHTING CONTROL DIAGRAM.
3. CONTROL STATION SHALL ENABLE/DISABLE FIELD HOUSE 10-BUTTON CONTROL STATIONS.

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN - AREA 2 - LIGHTING

SHEET NUMBER:
E1.12

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Illinois Design Firm Registration #184-000973

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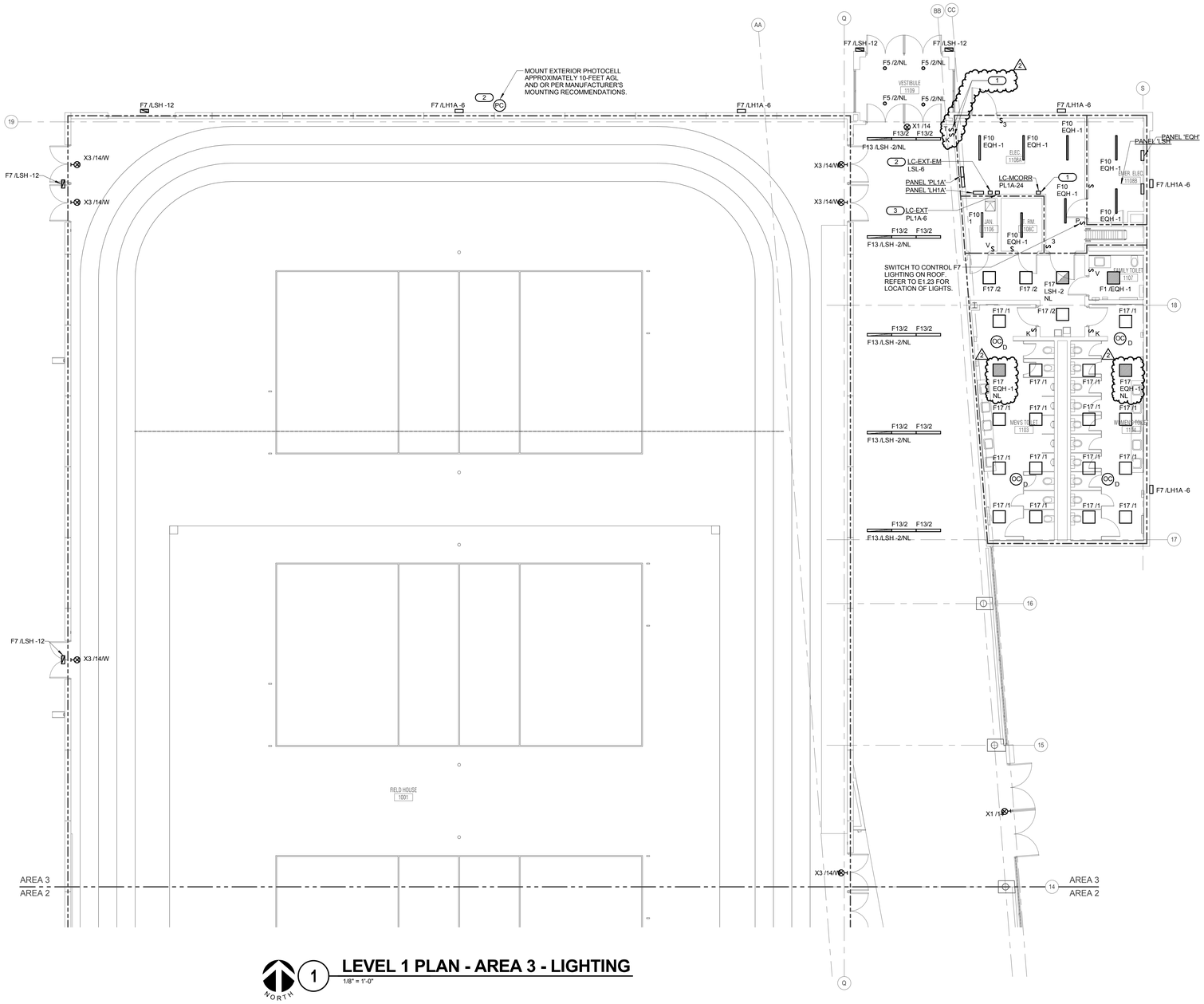
REFERENCE SCALE IN INCHES
0 1 2 3

ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH1A', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.



LEVEL 1 PLAN - AREA 3 - LIGHTING

1/8" = 1'-0"

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEETS E5.10, E5.11, AND E5.12 FOR PANEL AND RELAY PANEL SCHEDULES.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO 7/E4.02 FOR MAIN CORRIDOR LIGHTING CONTROL DIAGRAM.
2. REFER TO 2/E4.03 FOR EXTERIOR LIFE SAFETY LIGHTING CONTROL DIAGRAM.
3. REFER TO 3/E4.03 FOR EXTERIOR LIGHTING CONTROL DIAGRAM.

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - LIGHTING

SHEET NUMBER:
E1.13

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GENERAL SHEET NOTES :

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2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEETS E5.10, E5.11, AND E5.12 FOR PANEL AND RELAY PANEL SCHEDULES.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO 1/E4.02 FOR OFFICE LIGHTING CONTROLLER WIRING DIAGRAM.
2. REFER TO 5/E4.02 FOR SECOND FLOOR CORRIDOR LIGHTING CONTROL DIAGRAM.
3. LUMINAIRE IS WITHIN THE DAYLIGHT ZONE AND SHALL BE CONTROLLED (CONTINUOUS DAYLIGHT DIMMING) BY THE LIGHT SENSOR IN ROOM.
4. REFER TO 1/E4.03 FOR FIELD HOUSE LIGHTING CONTROL DIAGRAM.
5. REFER TO 4/E4.02 FOR GENERATOR TRANSFER DEVICE WIRING DIAGRAM.

AREA 2
AREA 1

ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH2', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.

SWITCH SHALL CONTROL F7 FIXTURES ON ROOF.

ALCR

PANEL 'PL2A'

LUMINAIRE WITHIN THIS AREA IS INCLUDED IN THE DAYLIGHTING ZONE AND SHALL BE CONTROLLED (CONTINUOUS DAYLIGHT DIMMING) BY THE LIGHT SENSORS IN THE ROOM.

AREA 2
AREA 1

ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH1A', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.

F23 /12

ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH1A', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.

ALL NORMAL LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LH2', UNLESS NOTED OTHERWISE.

ALL LIFE SAFETY LIGHTING WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'LSH', UNLESS NOTED OTHERWISE.

F23 /12

1 LEVEL 2 PLAN - AREA 1 - LIGHTING

1/8" = 1'-0"

NORTH

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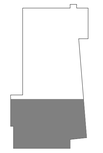
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - LIGHTING

SHEET NUMBER:
E1.21

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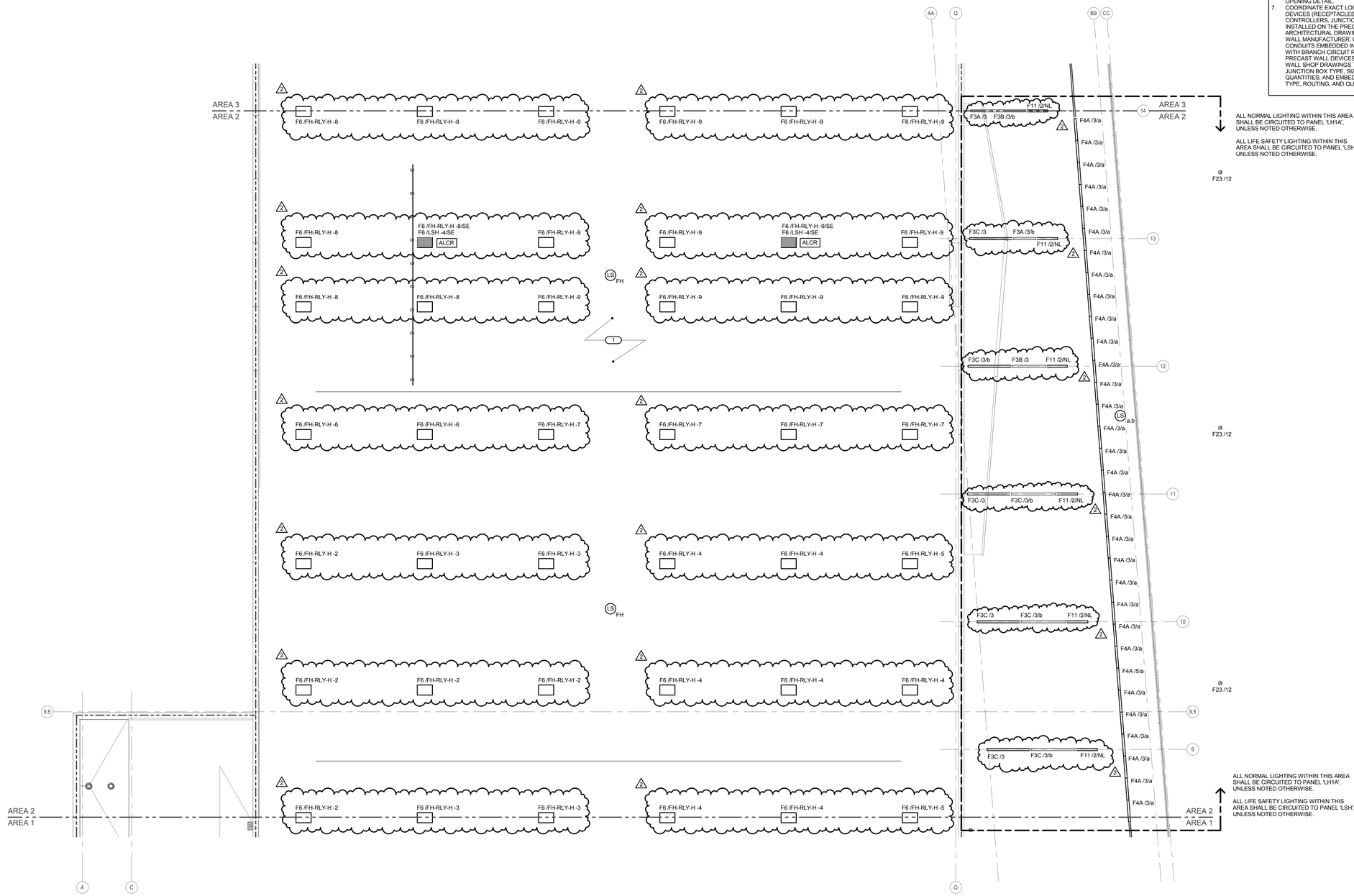

1 LEVEL 2 PLAN - AREA 2 - LIGHTING

1/8" = 1'-0"

NORTH

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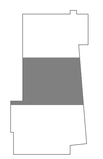
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 2 - LIGHTING

SHEET NUMBER:
E1.22

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
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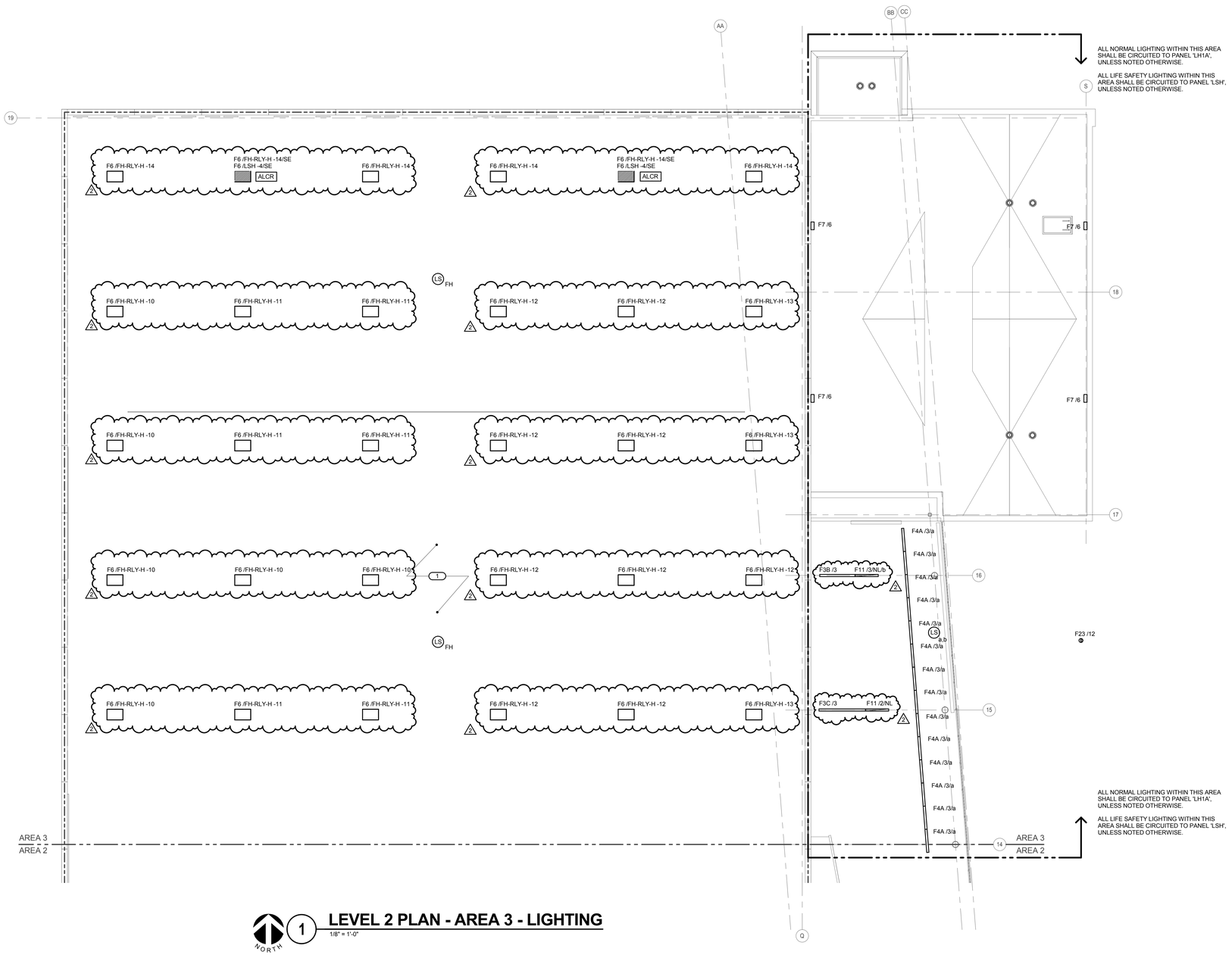
GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEETS E5.10, E5.11, AND E5.12 FOR PANEL AND RELAY PANEL SCHEDULES.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO 1/E4.03 FOR FIELD HOUSE LIGHTING CONTROL DIAGRAM.



1 LEVEL 2 PLAN - AREA 3 - LIGHTING

1/8" = 1'-0"

NORTH

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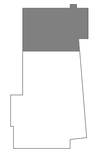
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 3 - LIGHTING

SHEET NUMBER:
E1.23

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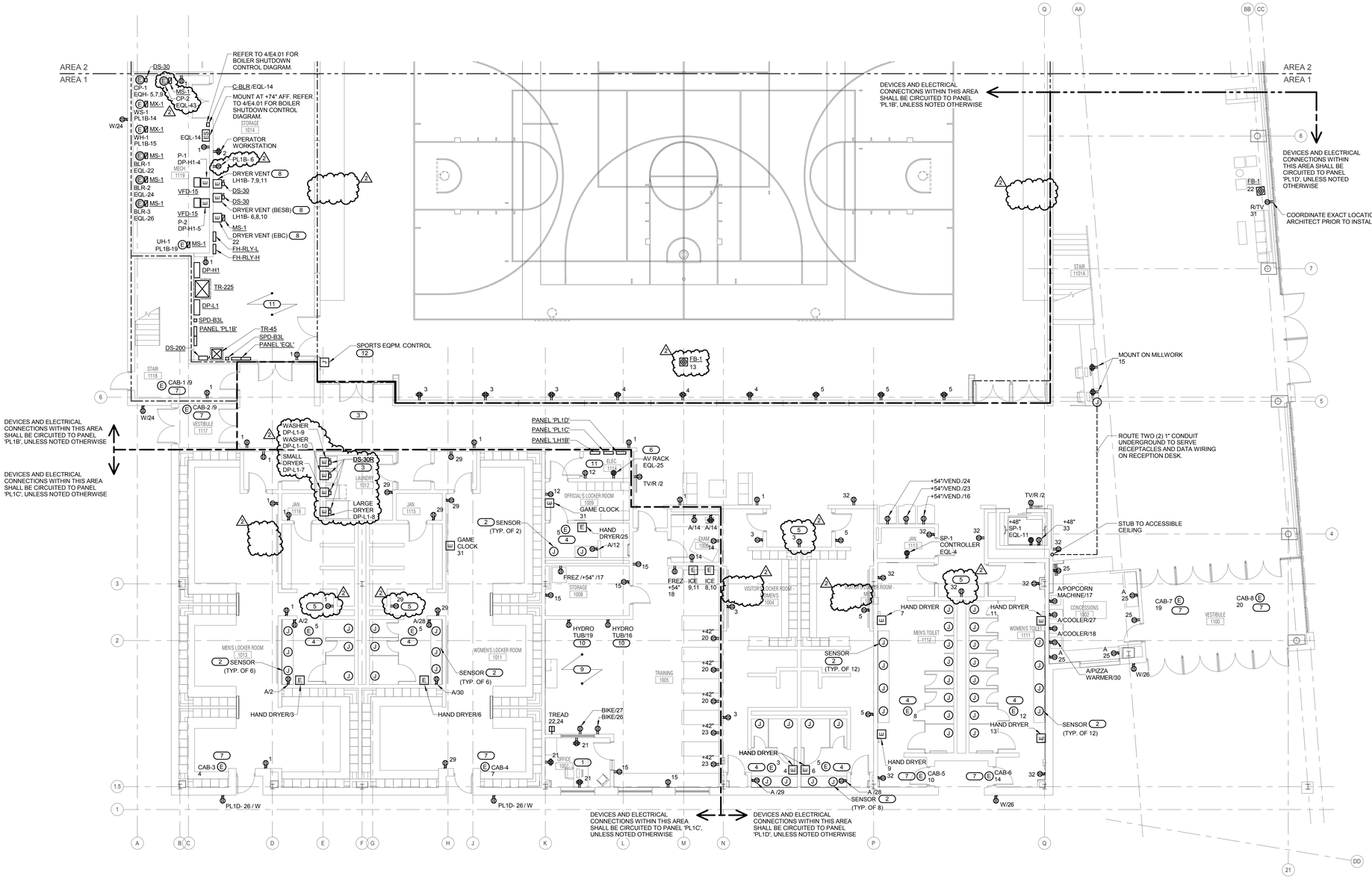
GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. 50% OF RECEPTACLES WITHIN ROOM SHALL BE CONTROLLED BY THE VACANCY SENSOR SERVING THE ROOM. REFER TO 1/E4.02 AND 2/E4.02 FOR CONTROLLED RECEPTACLE WIRING DIAGRAM AND ADDITIONAL REQUIREMENTS.
2. CONNECT TO TRANSFORMER(S) FOR LOW VOLTAGE PLUMBING SENSORS IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. COORDINATE QUANTITY OF TRANSFORMERS AND ROUGH-IN LOCATIONS WITH M.C.
3. DISCONNECT SWITCH SHALL BE INSTALLED AT ACCESSIBLE LOCATION AS PER NEC AND ADA REQUIREMENT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
4. SENSOR TRANSFORMER(S). COORDINATE QUANTITY AND LOCATION WITH M.C.
5. COORDINATE LOCATION WITH DRINKING FOUNTAIN MANUFACTURER PRIOR TO INSTALLATION.
6. LOCATE RECEPTACLE FROM THE BACK WALL OR FROM THE ACCESS SPACE BETWEEN RACKS. CONDUITS SERVING RECEPTACLE SHALL NOT BE ROUTED WITHIN THE RACKS.
7. CONNECT TO MANUFACTURER PROVIDED DISCONNECT/CONTROLLER.
8. COORDINATE EXACT LOCATION AND ADDITIONAL ELECTRICAL REQUIREMENTS WITH DRYER VENT MANUFACTURER. PROVIDE ADDITIONAL POWER CIRCUITS, SYSTEM INTERCONNECTIONS, CONTROL INTERLOCK WIRING, ETC. AS REQUIRED.
9. ALL METAL PIPING AND PARTS WITHIN 5-FEET OF THE THERAPEUTIC TUBS SHALL BE BONDED. BONDING CONDUCTORS SHALL BE MINIMUM OF 8 AWG SOLID COPPER.
10. COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE ELECTRICAL EQUIPMENT IN ROOM WITH REQUIRED CLEARANCES PER NEC. REFER TO 1/E4.00 FOR ADDITIONAL INFORMATION.
12. PROVIDE CONTROL WIRING IN CONDUIT TO ALL FIELD HOUSE EQUIPMENT - BACKBOARDS, DIVIDER CURTAINS, BLEACHERS, BATTING CAGES, ETC. CONTROL WIRING SHALL BE ROUTED THRU GYM EQUIPMENT RELAY PANEL WITH UP AND DOWN CONTROL PER 2/E4.00 GYM EQUIPMENT CONTROL WIRING DIAGRAM. COORDINATE ADDITIONAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.



LEVEL 1 PLAN - AREA 1 - POWER

1/8" = 1'-0"

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - POWER

SHEET NUMBER:
E2.11

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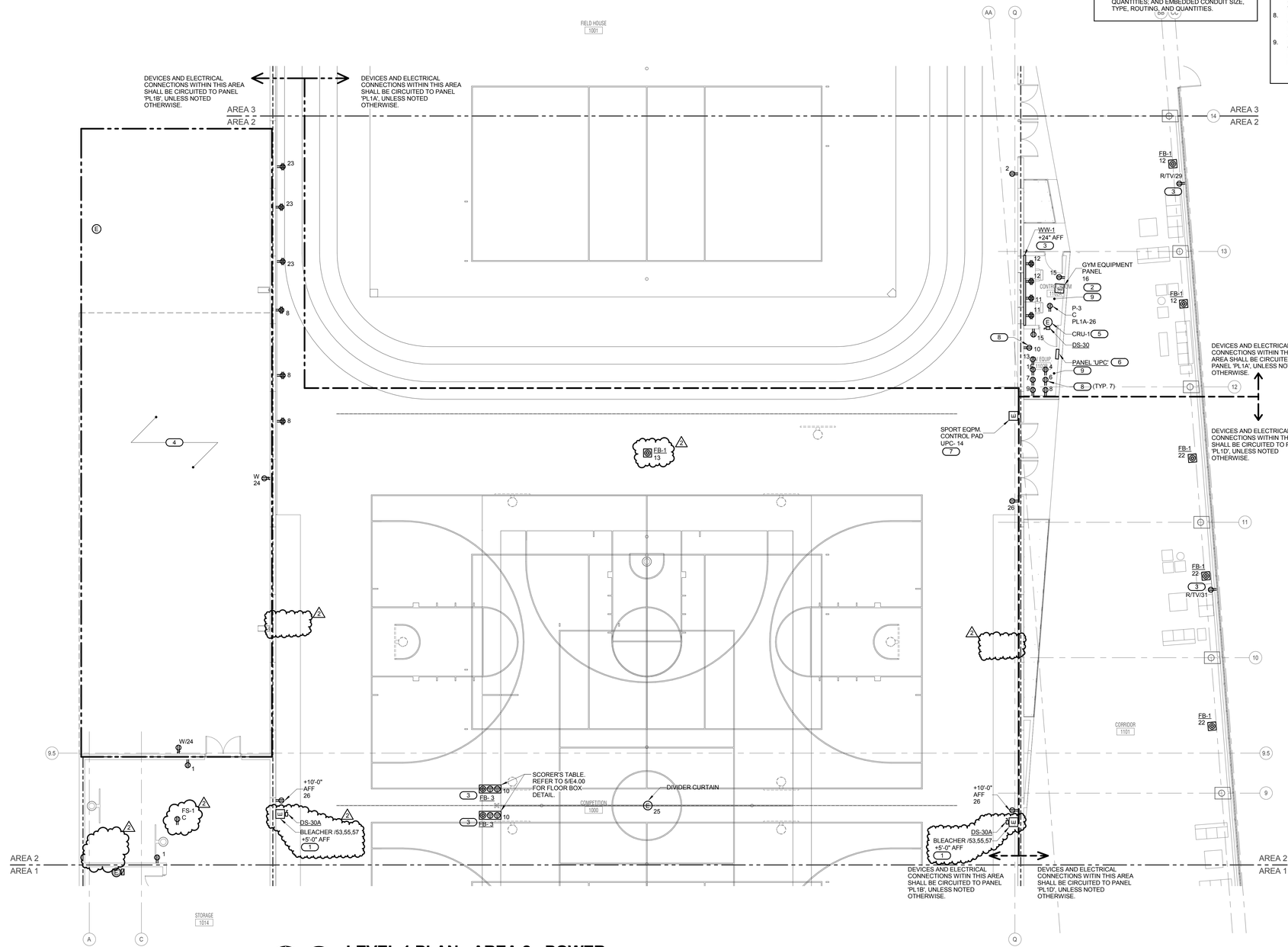
2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH BLEACHER EQUIPMENT MANUFACTURER.
2. REFER TO WIRING DIAGRAM 2/E4.00. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LOCATION.
3. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
4. REFER TO SHEET E2.40 ALTERNATE PLANS - ELECTRICAL FOR SCOPE OF WORK TO BE INCORPORATED UNDER ALT BID #1, #2, AND #3.
5. COMPUTER ROOM UNIT POWERED FROM CONDENSING UNIT ON ROOF (CU-1). ROUTE 1" C. BETWEEN THE TWO UNITS. COORDINATE WIRING, DISCONNECTING MEANS, CONTROLLER, ETC. WITH MANUFACTURER.
6. PROVIDE ELECTRICAL EQUIPMENT WITH REQUIRED CLEARANCES PER NEC. REFER TO 1/E4.00 FOR ADDITIONAL INFORMATION.
7. PROVIDE CONTROL WIRING IN CONDUIT TO ALL FIELD HOUSE EQUIPMENT - BACKBOARDS, DIVIDER CURTAINS, BLEACHERS, BATTING CAGES, ETC. CONTROL WIRING SHALL BE ROUTED THRU GYM EQUIPMENT RELAY PANEL WITH UP AND DOWN CONTROL PER 2/E4.00 GYM EQUIPMENT CONTROL WIRING DIAGRAM. COORDINATE ADDITIONAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
8. LOCATE RECEPTACLE FROM THE BACK WALL OR FROM THE ACCESS SPACE BETWEEN RACKS. CONDUITS SERVING RECEPTACLE SHALL NOT BE ROUTED WITHIN THE RACKS.
9. DEVICES AND ELECTRICAL CONNECTIONS WITHIN CONTROL ROOM 1102A AND A/V EQUIPMENT 1102B SHALL BE CIRCUITED TO PANEL 'UPC', UNLESS NOTED OTHERWISE.



1 LEVEL 1 PLAN - AREA 2 - POWER

1/8" = 1'-0"

NORTH

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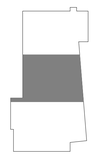
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 2 - POWER

SHEET NUMBER:
E2.12

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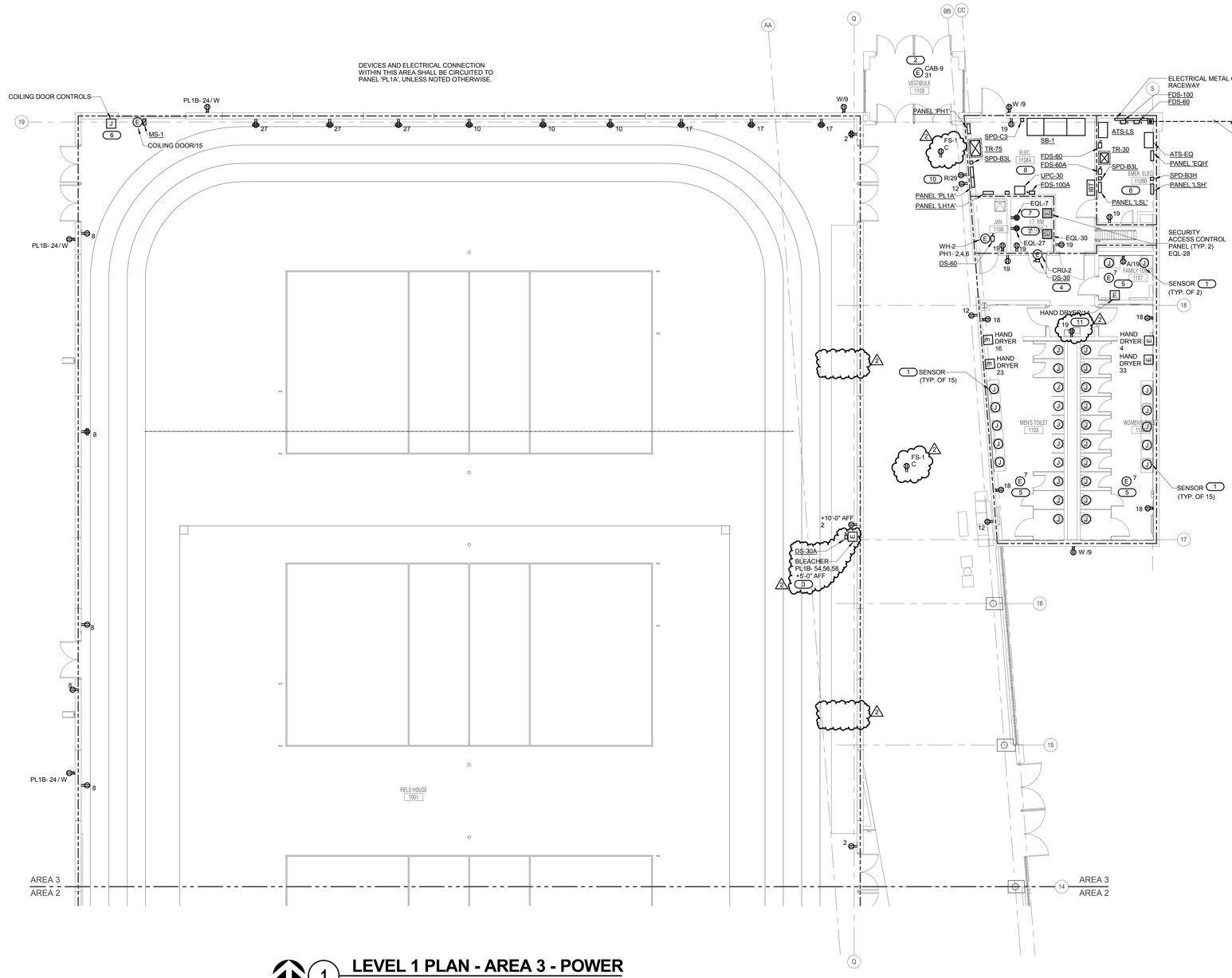
2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. CONNECT TO TRANSFORMER(S) FOR LOW VOLTAGE PLUMBING SENSORS IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. COORDINATE QUANTITY OF TRANSFORMERS AND ROUGH-IN LOCATIONS.
2. CONNECT TO MANUFACTURER PROVIDED DISCONNECT.
3. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH BLEACHER EQUIPMENT MANUFACTURER.
4. COMPUTER ROOM UNIT POWERED FROM CONDENSING UNIT ON ROOF (CU-2). ROUTE 1" C. BETWEEN THE TWO UNITS. COORDINATE WIRING, DISCONNECTING MEANS, CONTROLLER, ETC. WITH MANUFACTURER.
5. SENSOR TRANSFORMER(S). COORDINATE QUANTITY AND LOCATION.
6. ROUTE 1" CONDUIT WITH PULL STRING FROM PULL BOX TO JAMB OF DOOR OPENING TO 6" BELOW JOIST BEARING POCKET.
7. LOCATE RECEPTACLE FROM THE BACK WALL OR FROM THE ACCESS SPACE BETWEEN RACKS. CONDUITS SERVING RECEPTACLE SHALL NOT BE ROUTED WITHIN THE RACKS.
8. PROVIDE ELECTRICAL EQUIPMENT IN ROOM WITH REQUIRED CLEARANCES PER NEC. REFER TO 1/E4.00 FOR ADDITIONAL INFORMATION.
9. SIZE AS REQUIRED PER QUANTITY AND CONDUCTOR SIZE. INCLUDE COUPLINGS, ELBOWS, ADAPTERS, END CAPS AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS AS REQUIRED FOR A CONTINUOUS ENCLOSED COMPLETE SYSTEM.
10. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
11. COORDINATE LOCATION WITH DRINKING FOUNTAIN MANUFACTURER PRIOR TO INSTALLATION.



1 LEVEL 1 PLAN - AREA 3 - POWER

1/8" = 1'-0"

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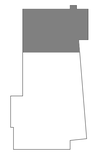
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - POWER

SHEET NUMBER:
E2.13

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GENERAL SHEET NOTES :

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2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. 50% OF RECEPTACLES WITHIN ROOM SHALL BE CONTROLLED BY THE VACANCY SENSOR SERVING THE ROOM. REFER TO 1/E4.02 AND 2/E4.02 FOR CONTROLLED RECEPTACLE WIRING DIAGRAM AND ADDITIONAL REQUIREMENTS.
2. CONNECT TO TRANSFORMER(S) FOR LOW VOLTAGE PLUMBING SENSORS IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. COORDINATE QUANTITY OF TRANSFORMERS AND ROUGH-IN LOCATIONS.
3. LOCATE RECEPTACLE FROM THE BACK WALL OR FROM THE ACCESS SPACE BETWEEN RACKS. CONDUITS SERVING RECEPTACLE SHALL NOT BE ROUTED WITHIN THE RACKS.
4. CONNECT TO MANUFACTURER PROVIDED DISCONNECT/CONTROLLER.
5. SENSOR TRANSFORMER(S). COORDINATE QUANTITY AND LOCATION.
6. ROUTE FOUR (4) EMPTY 1" C. WITH PULL STRING FROM ABOVE THE LAY-IN SECOND FLOOR CEILING TO 6" BELOW JOIST BEARING POCKET.
7. COMPUTER ROOM UNIT POWERED FROM CONDENSING UNIT ON ROOF (CU-3). ROUTE 1" C. BETWEEN THE TWO UNITS. COORDINATE WIRING, DISCONNECTING MEANS, CONTROLLER, ETC. WITH MANUFACTURER.
8. COMPUTER ROOM UNIT POWERED FROM CONDENSING UNIT ON ROOF (CU-4). ROUTE 1" C. BETWEEN THE TWO UNITS. COORDINATE WIRING, DISCONNECTING MEANS, CONTROLLER, ETC. WITH MANUFACTURER.
9. ROUTE CONDUIT/CONDUCTORS TO ASSOCIATED CONTROLLER IN STORAGE 1014. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF CONTROLLER. COORDINATE WITH MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
10. PROVIDE ELECTRICAL EQUIPMENT IN ROOM WITH REQUIRED CLEARANCES PER NEC. REFER TO 1/E4.00 FOR ADDITIONAL INFORMATION.
11. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
12. CONNECT TO MOTORIZED SCREEN CONTROLLER IN 1/2" CONDUIT. COORDINATE ADDITIONAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
13. PROVIDE CONTROL WIRING IN CONDUIT TO ALL FIELD HOUSE EQUIPMENT - BACKBOARDS, DIVIDER CURTAINS, BLEACHERS, BATTING CAGES, ETC. CONTROL WIRING SHALL BE ROUTED THRU GYM EQUIPMENT RELAY PANEL WITH UP AND DOWN CONTROL PER 2/E4.00 GYM EQUIPMENT CONTROL WIRING DIAGRAM. COORDINATE ADDITIONAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
14. INSTALL HEAT TRACE IN FULL LENGTH OF ROOFTOP UNIT HEAT EXCHANGER CONDENSATE LINE ON ROOF TO THE FLOOR BELOW. COORDINATE FULL LENGTH WITH M.C. INSTALL ALL EQUIPMENT AND INSTALLATION AS REQUIRED PER MANUFACTURER'S RECOMMENDATION.
15. INSTALL HEAT TRACE CONTROLLER AND JUNCTION BOX IN THE FLOOR BELOW.
16. COORDINATE LOCATION WITH DRINKING FOUNTAIN MANUFACTURER PRIOR TO INSTALLATION.

AREA 2
AREA 1

MOUNT CONVENIENCE OUTLET ON ROOF TOP UNIT.
EF-4
PL1B- 20
W/29
RTU-1
DP-H1-2
HT-1
PL1B-31
SCOREBOARD /48
SCOREBOARD /49
SCOREBOARD /47
MS-1
DF-1
27
DF-2
27
DF-3
27
MOTORIZED BACKBOARD
MOTORIZED SCREEN/25
MOTORIZED SCREEN CONTROLLER
MOTORIZED SCREEN
DEVICES AND ELECTRICAL CONNECTIONS WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'PL1B'; UNLESS NOTED OTHERWISE.
DEVICES AND ELECTRICAL CONNECTIONS WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'PL2A'; UNLESS NOTED OTHERWISE.
DEVICES AND ELECTRICAL CONNECTIONS WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'PL2B'; UNLESS NOTED OTHERWISE.
DEVICES AND ELECTRICAL CONNECTIONS WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'PL2C'; UNLESS NOTED OTHERWISE.
COPIER/18
COPIER/26
MICROWAVE
COFFEE MAKER
REFRIG.
SENSOR (TYP. OF 4)
HAND DRYER
PANEL 'PL2B'
PANEL 'LH2'
PANEL 'PL2A'
COPIER 28
AV RACK EQL-29
AV RACK EQL-31
SECURITY ACCESS CONTROL PANEL (TYP. 4)
EQL-32
EQL-34
EQL-36
ELEV CAB EQL-20
SERVER EQL-2
ELEV SB-1-10
SENSOR (TYP. OF 8)
COORDINATE EXACT LOCATION OF RECEPTACLE WITH GYM EQUIPMENT LAYOUT. (TYP. OF 7)
DEVICES AND ELECTRICAL CONNECTIONS WITHIN THIS AREA SHALL BE CIRCUITED TO PANEL 'PL2A'; UNLESS NOTED OTHERWISE.

LEVEL 2 PLAN - AREA 1 - POWER

1/8" = 1'-0"

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - POWER

SHEET NUMBER:
E2.21

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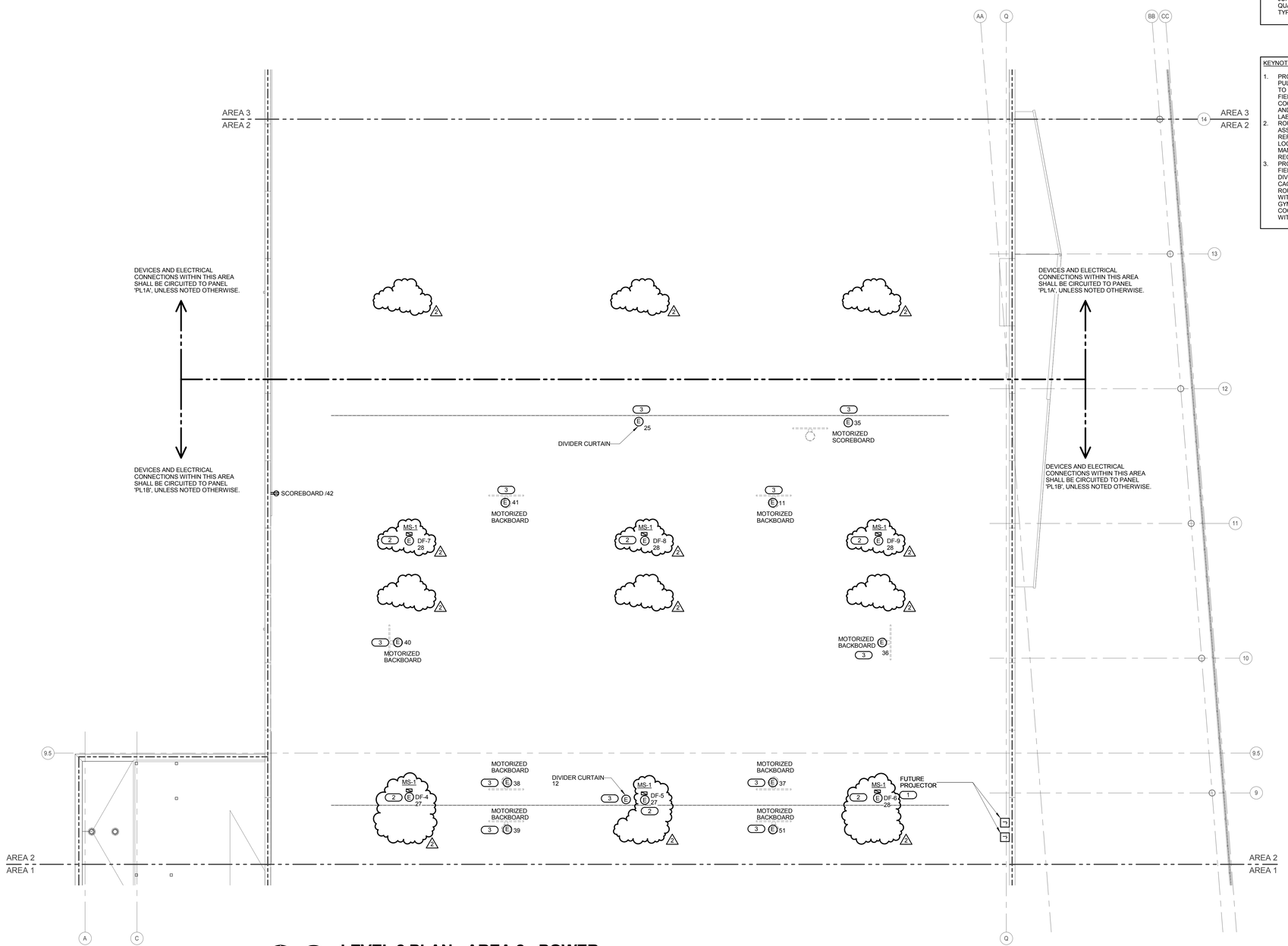

LEVEL 2 PLAN - AREA 2 - POWER

1/8" = 1'-0"

NORTH

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. PROVIDE TWO (2) EMPTY 1" CONDUITS WITH PULL STRINGS FROM MAIN ELECTRICAL ROOM TO THE BOTTOM OF THE STRUCTURE OF THE FIELD HOUSE FOR FUTURE PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. LABEL BOX "FUTURE PROJECTOR".
2. ROUTE CONDUIT/CONDUCTORS TO ASSOCIATED CONTROLLER IN STORAGE 1014. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF CONTROLLER. COORDINATE WITH MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE CONTROL WIRING IN CONDUIT TO ALL FIELD HOUSE EQUIPMENT - BACKBOARDS, DIVIDER CURTAINS, BLEACHERS, BATTING CAGES, ETC. CONTROL WIRING SHALL BE ROUTED THRU GYM EQUIPMENT RELAY PANEL WITH UP AND DOWN CONTROL PER 2/E4.00 GYM EQUIPMENT CONTROL WIRING DIAGRAM. COORDINATE ADDITIONAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.

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JOLIET JUNIOR COLLEGE
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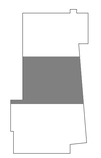
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 2 - POWER

SHEET NUMBER:

E2.22

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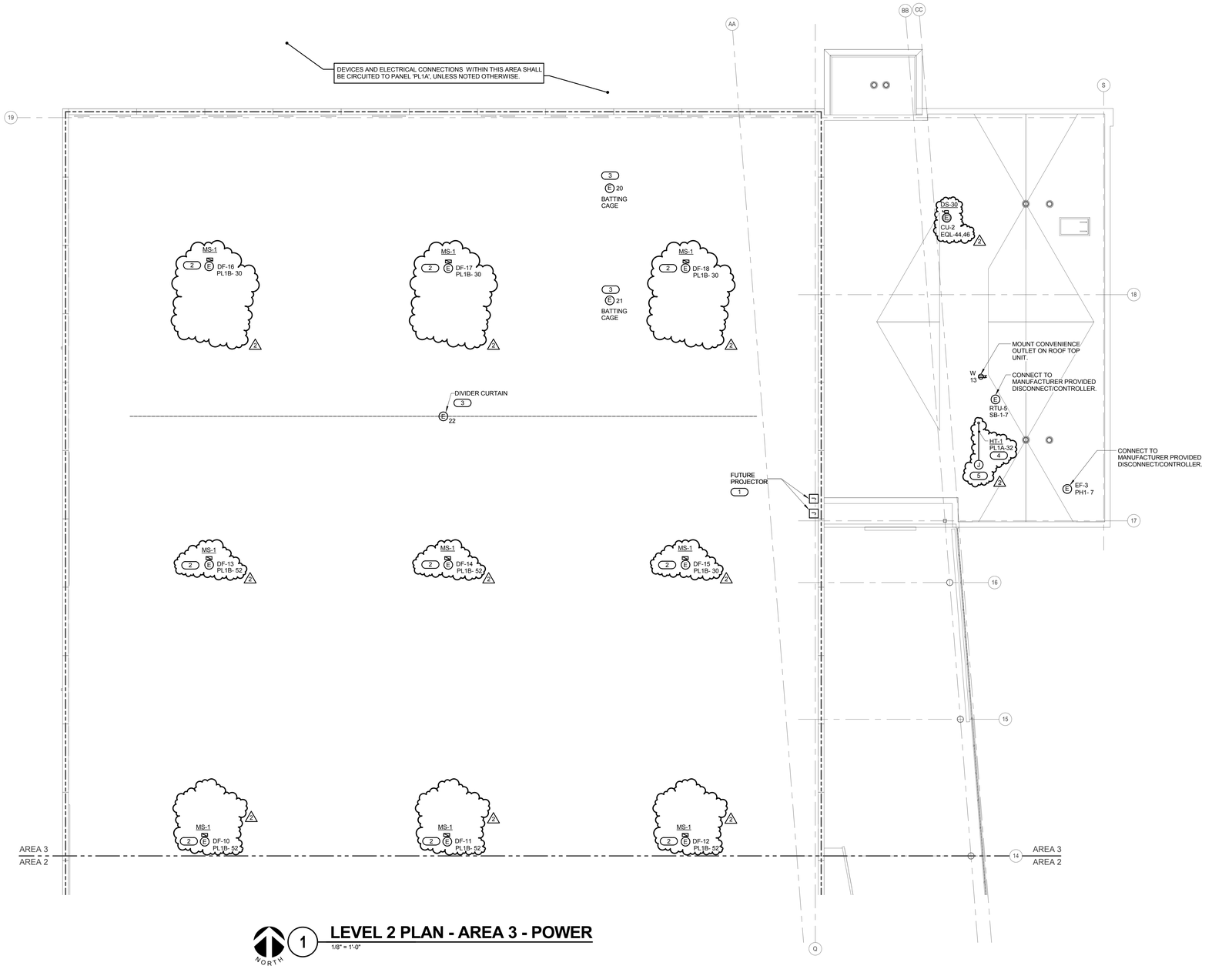

1 LEVEL 2 PLAN - AREA 3 - POWER

1/8" = 1'-0"

NORTH

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
7. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. PROVIDE TWO (2) EMPTY 1" CONDUITS WITH PULL STRINGS FROM MAIN ELECTRICAL ROOM TO THE BOTTOM OF THE STRUCTURE OF THE FIELD HOUSE FOR FUTURE PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. LABEL BOX "FUTURE PROJECTOR".
2. ROUTE CONDUIT/CONDUCTORS TO ASSOCIATED CONTROLLER IN STORAGE 1014. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF CONTROLLER. COORDINATE WITH MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
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4. INSTALL HEAT TRACE IN FULL LENGTH OF ROOFTOP UNIT HEAT EXCHANGER CONDENSATE LINE ON ROOF TO THE FLOOR BELOW. COORDINATE FULL LENGTH WITH M.C. INSTALL ALL EQUIPMENT AND INSTALLATION AS REQUIRED PER MANUFACTURER'S RECOMMENDATION.
5. INSTALL HEAT TRACE CONTROLLER AND JUNCTION BOX IN THE FLOOR BELOW.

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JOLIET JUNIOR COLLEGE
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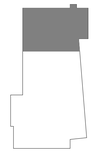
1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:

LEVEL 2 PLAN - AREA 3 - POWER

SHEET NUMBER:

E2.23

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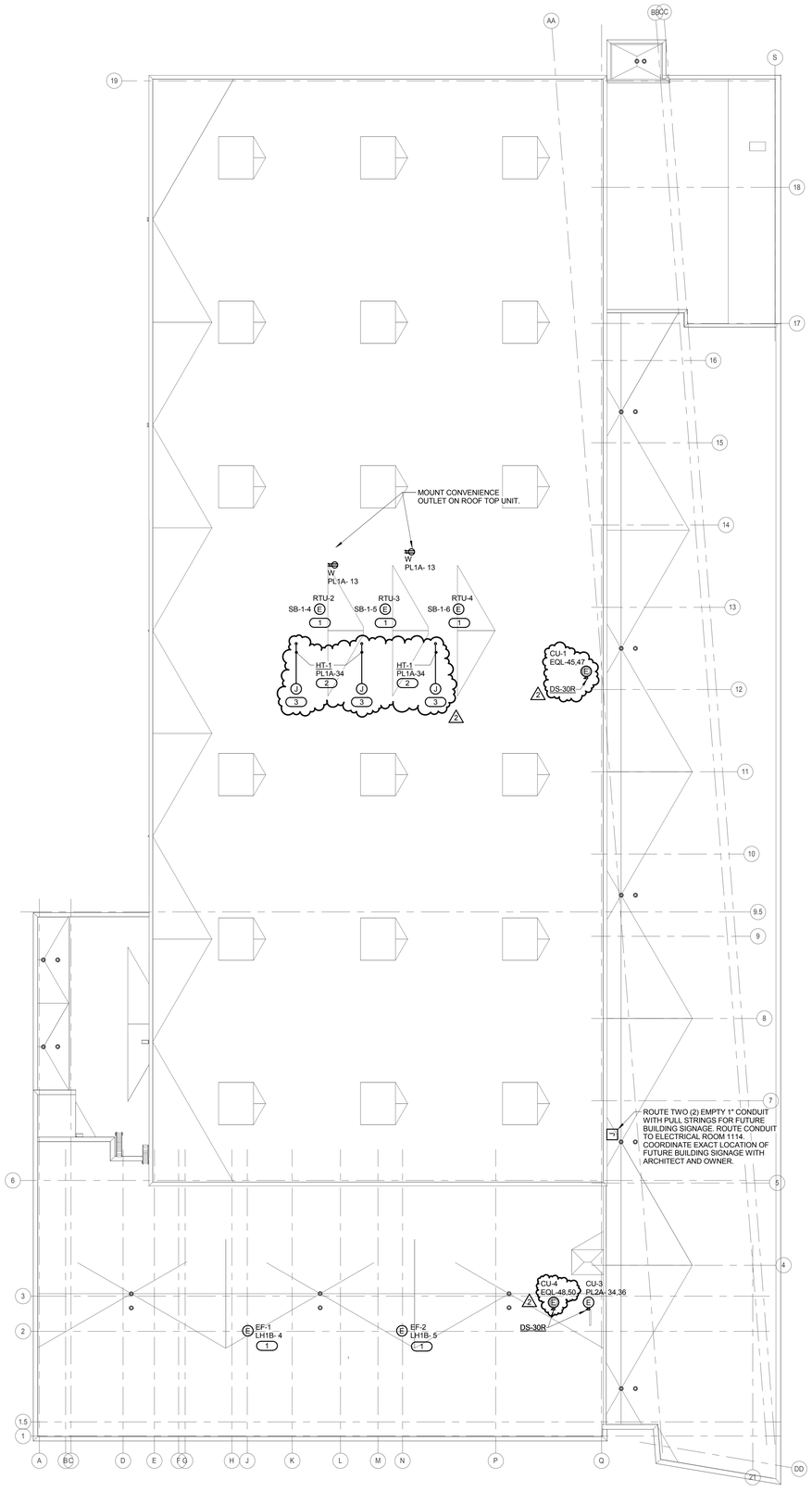

OVERALL ROOF PLAN - ELECTRICAL

1/16" = 1'-0"

NORTH

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEETS E0.00 AND E0.01 FOR ELECTRICAL ONE LINE DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
5. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. CONNECT TO MANUFACTURER PROVIDED CONDENSATE DRAIN PIPING.
2. INSTALL HEAT TRACE IN FULL LENGTH OF ROOFTOP UNIT HEAT EXCHANGER CONDENSATE LINE ON ROOF TO THE FLOOR BELOW. COORDINATE FULL LENGTH WITH M.C. INSTALL ALL EQUIPMENT AND INSTALLATION AS REQUIRED PER MANUFACTURER'S RECOMMENDATION.
3. INSTALL HEAT TRACE CONTROLLER AND JUNCTION BOX IN THE FLOOR BELOW.

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
OVERALL ROOF PLAN - ELECTRICAL

SHEET NUMBER:
E2.30

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REFERENCE SCALE IN INCHES
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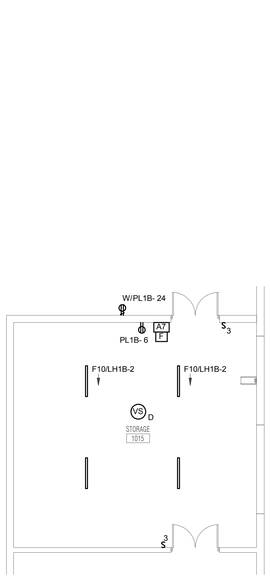
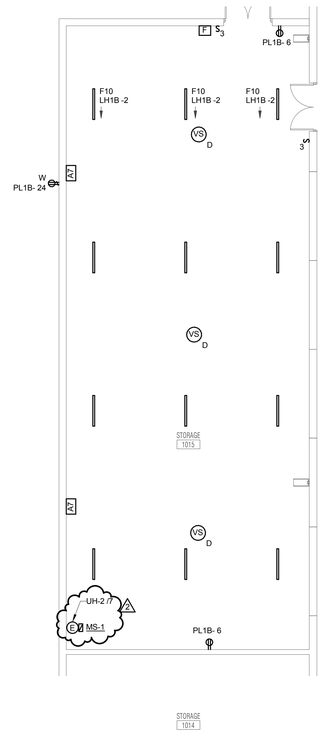
GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERALELECTRICAL NOTES, ELECTRICALINSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.00 FOR LUMINAIRE SCHEDULE.
3. REFER TO 3/E4.02 FOR GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM.
4. REFER TO SHEET 1/E4.01 FOR FIRE ALARM OPERATION MATRIX AND 2/E4.01 FOR FIRE ALARM RISER DIAGRAM.
5. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
6. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
7. REFER TO E5.01 FOR TRANSFORMER, TRANSFER SWITCH, VFD, CONTACTOR, AND DISCONNECT AND STARTER SCHEDULES.
8. REFER TO SHEETS E6.00 AND E6.01 FOR ELECTRICAL ONE LINE DIAGRAM.
9. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
10. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.



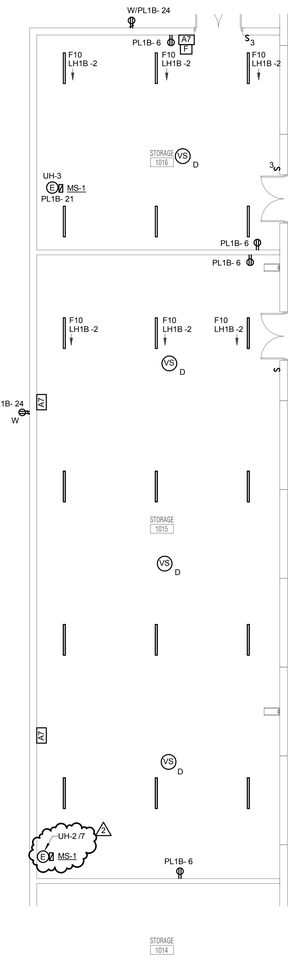
LEVEL 1 PLAN - ELECTRICAL - - ALT BID 1

1/8" = 1'-0"



LEVEL 1 PLAN - ELECTRICAL - - ALT BID 2

1/8" = 1'-0"



LEVEL 1 PLAN - ELECTRICAL - - ALT BID 3

1/8" = 1'-0"

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ALTERNATE PLANS - ELECTRICAL

SHEET NUMBER:
E2.40

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REFERENCE SCALE IN INCHES
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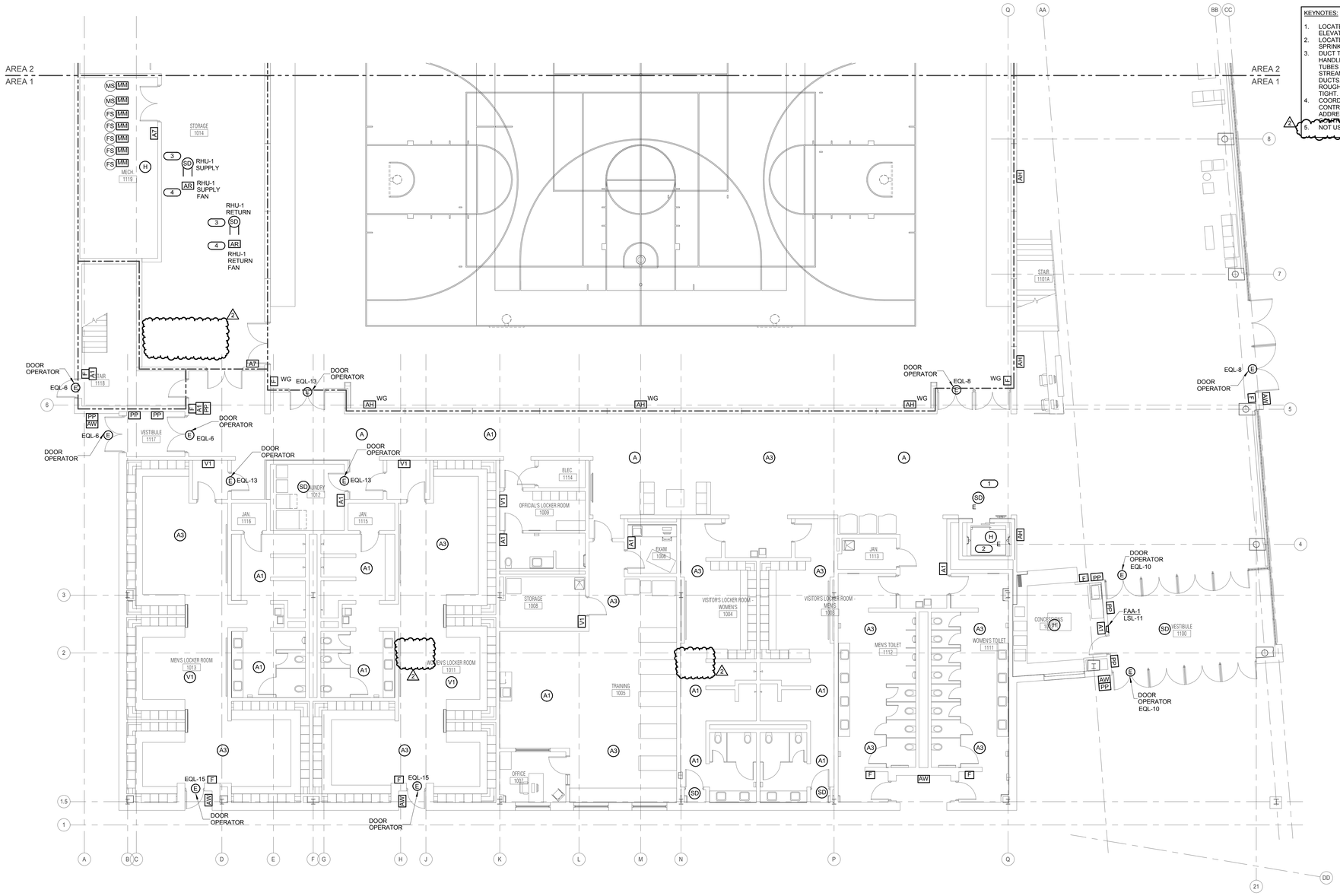
2. REFER TO SHEET 1/E4.01 FOR FIRE ALARM OPERATION MATRIX AND 2/E4.01 FOR FIRE ALARM RISER DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. LOCATE SMOKE DETECTOR WITHIN 5'-0" OF ELEVATOR DOOR.
2. LOCATE HEAT DETECTOR WITHIN 2'-0" OF SPRINKLER HEAD.
3. DUCT TYPE SMOKE DETECTOR FOR AIR HANDLING UNIT SHUTDOWN. INSTALL SAMPLING TUBES IN STRAIGHT RUN OF DUCT, DOWN STREAM OF FILTERS AND AHEAD OF BRANCH DUCTS. COORDINATE INSTALLATION PRIOR TO ROUGH-IN. SEAL ALL DUCT PENETRATIONS AIR-TIGHT.
4. COORDINATE CONNECTION TO MOTOR CONTROLLER FOR FAN SHUTDOWN. MOUNT ADDRESSABLE RELAY WITHIN 3'-0" OF CONTROLLER.
5. NOT USED.



1 LEVEL 1 PLAN - AREA 1 - SYSTEMS

1/8" = 1'-0"

NORTH

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2174 ONEDA ST.
JOLIET, IL 60435
P: 815.744.6600

JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - SYSTEMS

SHEET NUMBER:
E3.11

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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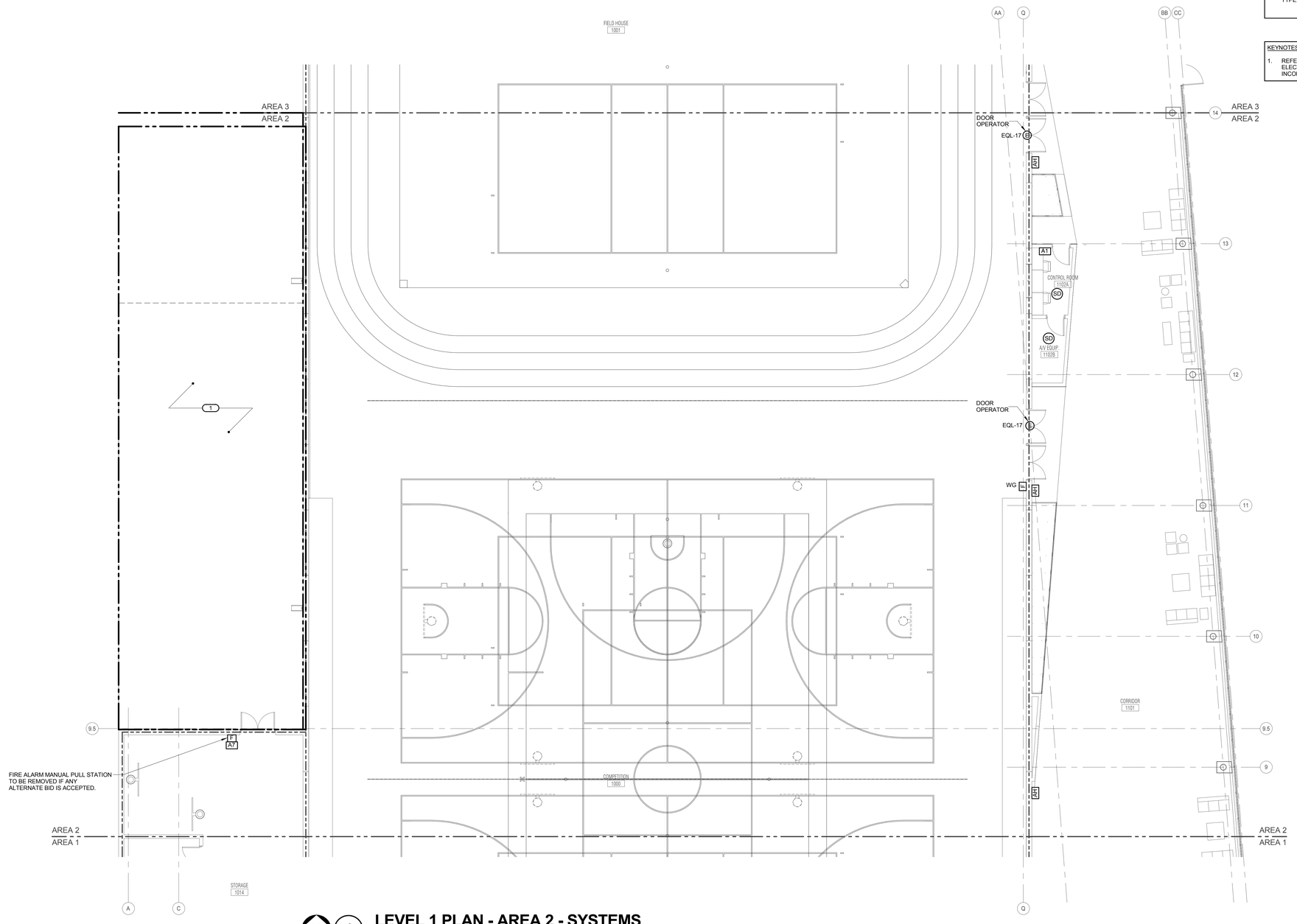
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES AND ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET 1/E4.01 FOR FIRE ALARM OPERATION MATRIX AND 2/E4.01 FOR FIRE ALARM RISER DIAGRAM.
3. REFER TO SHEETS E5.10 AND E5.11 FOR PANEL SCHEDULES.
4. REFER TO 3/E4.00 FOR FIRE BARRIER PENETRATION DETAIL.
5. REFER TO 6/E4.00 FOR SIDE BY SIDE DEVICE OPENING DETAIL.
6. COORDINATE EXACT LOCATION OF ALL DEVICES (RECEPTACLES, LIGHTING CONTROLLERS, JUNCTION/PULL BOXES, ETC.) INSTALLED ON THE PRECAST WALL WITH ARCHITECTURAL DRAWINGS AND PRECAST WALL MANUFACTURER. COORDINATE CONDUITS EMBEDDED IN THE PRECAST WALL WITH BRANCH CIRCUIT ROUTINGS SERVING PRECAST WALL DEVICES. REVIEW PRECAST WALL SHOP DRAWINGS TO VERIFY: EMBEDDED JUNCTION BOX TYPE, SIZE, LOCATION, AND QUANTITIES; AND EMBEDDED CONDUIT SIZE, TYPE, ROUTING, AND QUANTITIES.

KEYNOTES: (#)

1. REFER TO SHEET E2.40 ALTERNATE PLANS - ELECTRICAL FOR SCOPE OF WORK TO BE INCORPORATED UNDER ALT BID #1, #2, AND #3.



1 LEVEL 1 PLAN - AREA 2 - SYSTEMS

1/8" = 1'-0"

NORTH

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LEVEL 1 PLAN - AREA 2 - SYSTEMS

SHEET NUMBER:

E3.12

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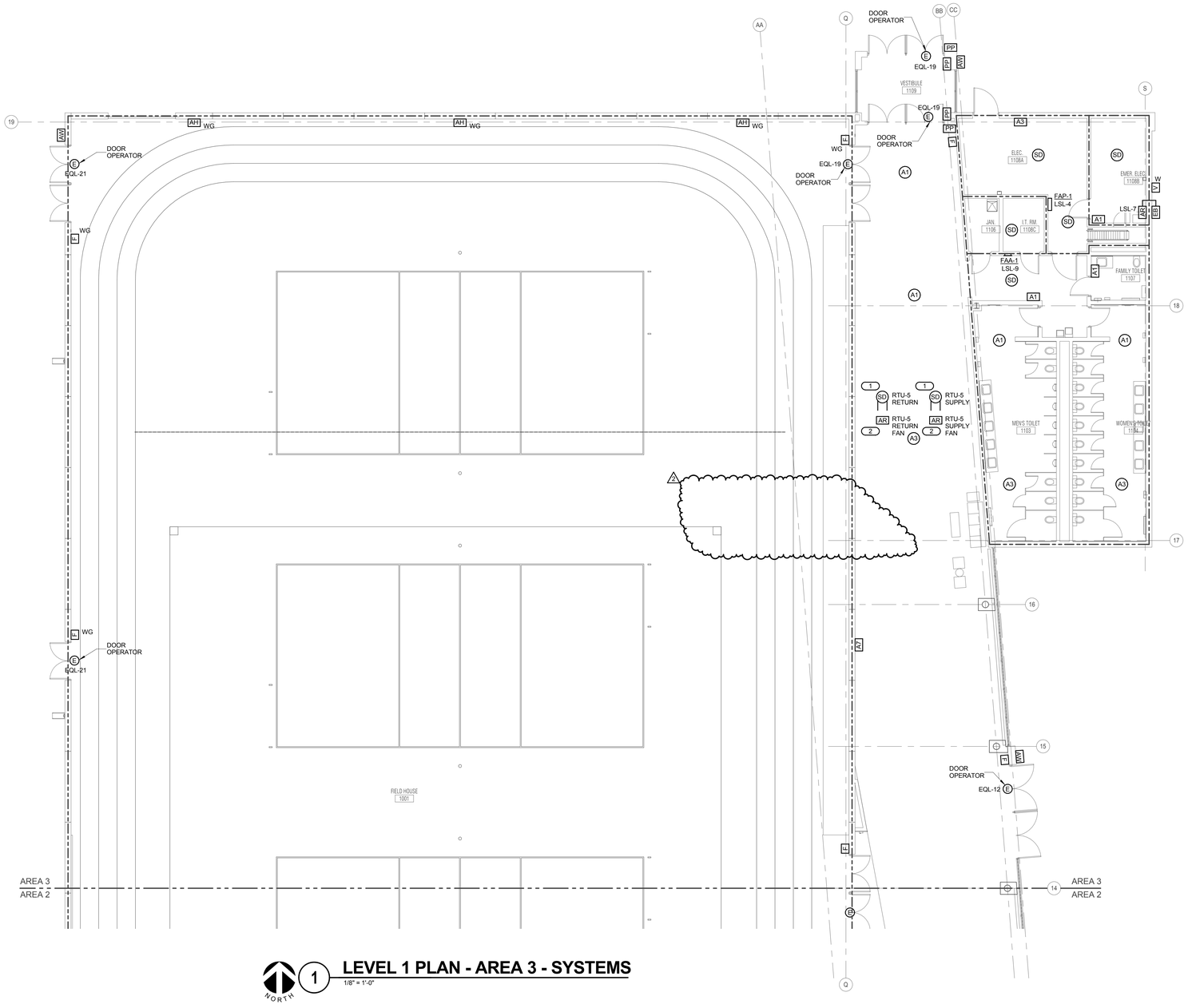

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1. DUCT TYPE SMOKE DETECTOR FOR AIR HANDLING UNIT SHUTDOWN. INSTALL SAMPLING TUBES IN SRAIGHT RUN OF DUCT, DOWN STREAM OF FILTERS AND AHEAD OF BRANCH DUCTS. COORDINATE INSTALLATION PRIOR TO ROUGH-IN. SEAL ALL DUCT PENETRATIONS AIR-TIGHT.
2. COORDINATE CONNECTION TO MOTOR CONTROLLER FOR FAN SHUTDOWN. MOUNT ADDRESSABLE RELAY WITHIN 3'-0" OF CONTROLLER.

dka

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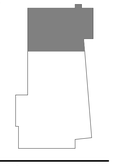

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
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SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - SYSTEMS

SHEET NUMBER:
E3.13

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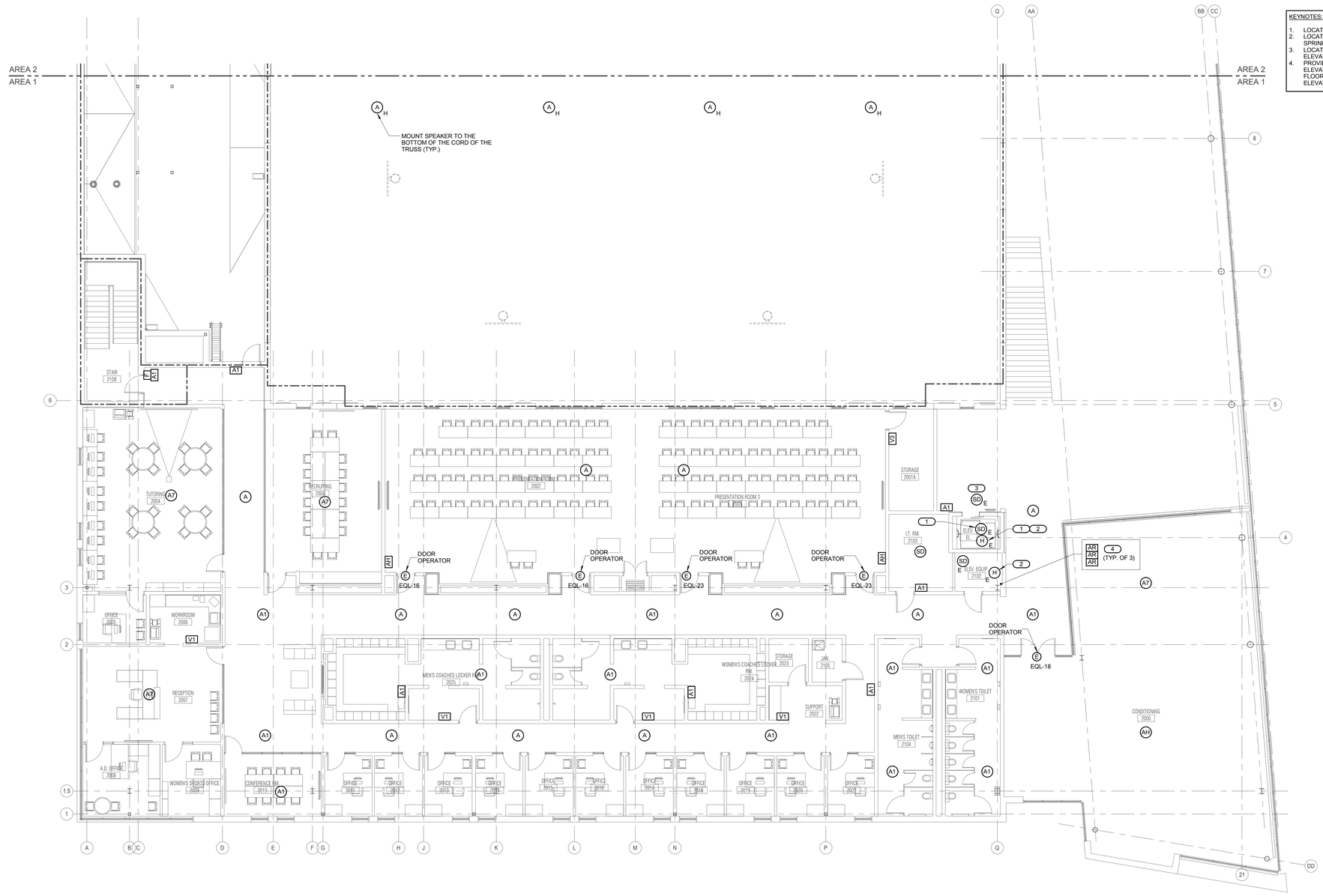
KEYNOTES: (#)

1. LOCATE AT THE TOP OF SHAFT.
2. LOCATE HEAT DETECTOR WITHIN 2'-0" OF SPRINKLER HEAD.
3. LOCATE SMOKE DETECTOR WITHIN 5'-0" OF ELEVATOR DOOR.
4. PROVIDE THREE (3) FIRE ALARM RELAYS FOR ELEVATOR. RELAYS ARE FOR DESIGNATED FLOOR RECALL, ALTERNATE FLOOR RECALL, AND ELEVATOR EQUIPMENT ROOM UNSAFE ALARM.



1 LEVEL 2 PLAN - AREA 1 - SYSTEMS

1/8" = 1'-0"

NORTH

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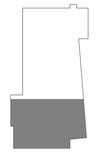
DKA PROJECT NO: 14-004

KEY PLAN:



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BID PACKAGE 2
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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - SYSTEMS

SHEET NUMBER:
E3.21

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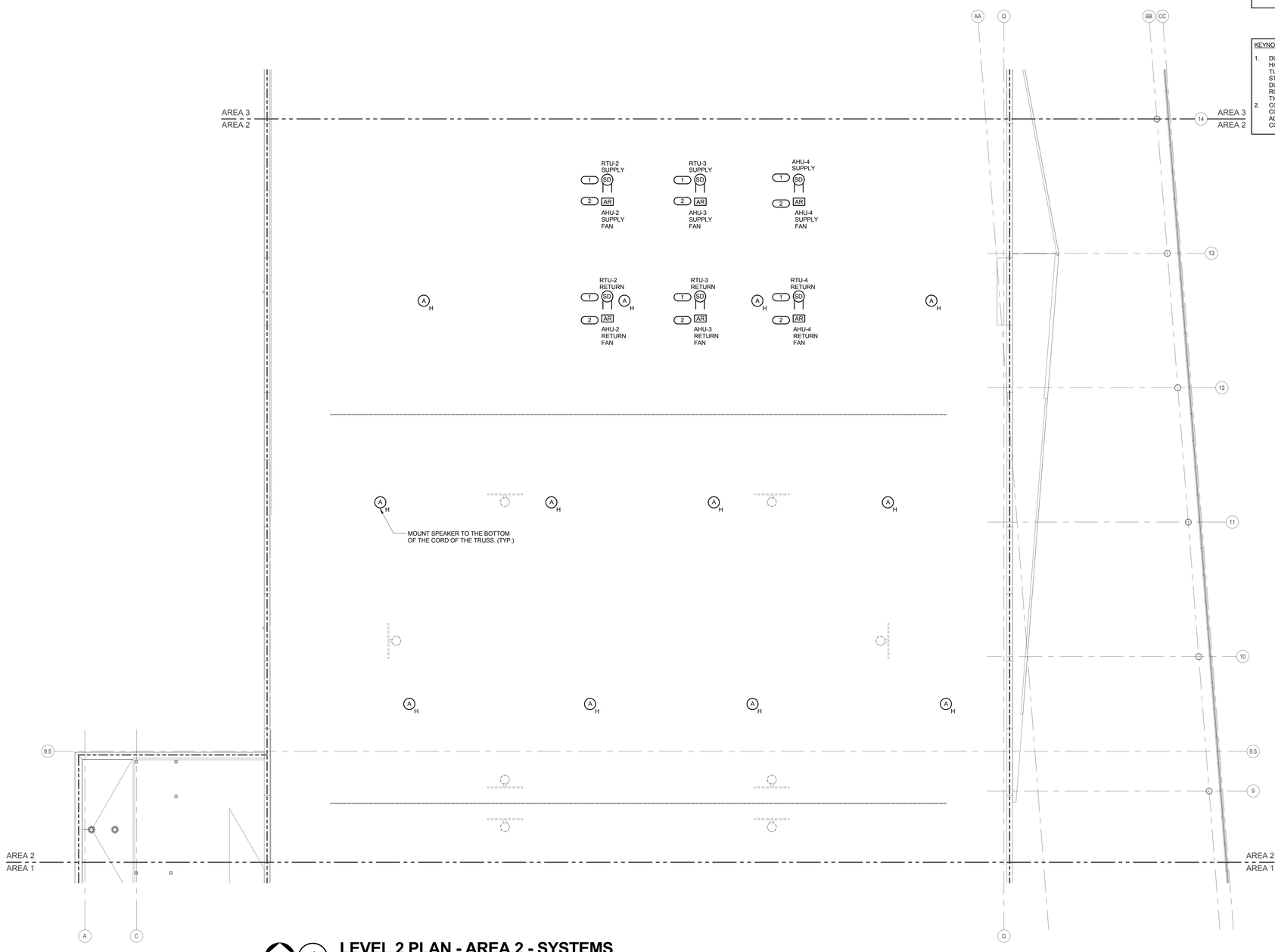

1 **LEVEL 2 PLAN - AREA 2 - SYSTEMS**
1/8" = 1'-0"

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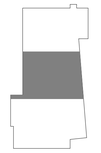

SHEET STATUS: 7/17/15
BID PACKAGE 2
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NO:	DESCRIPTION:	DATE:

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LEVEL 2 PLAN - AREA 2 - SYSTEMS

SHEET NUMBER:
E3.22

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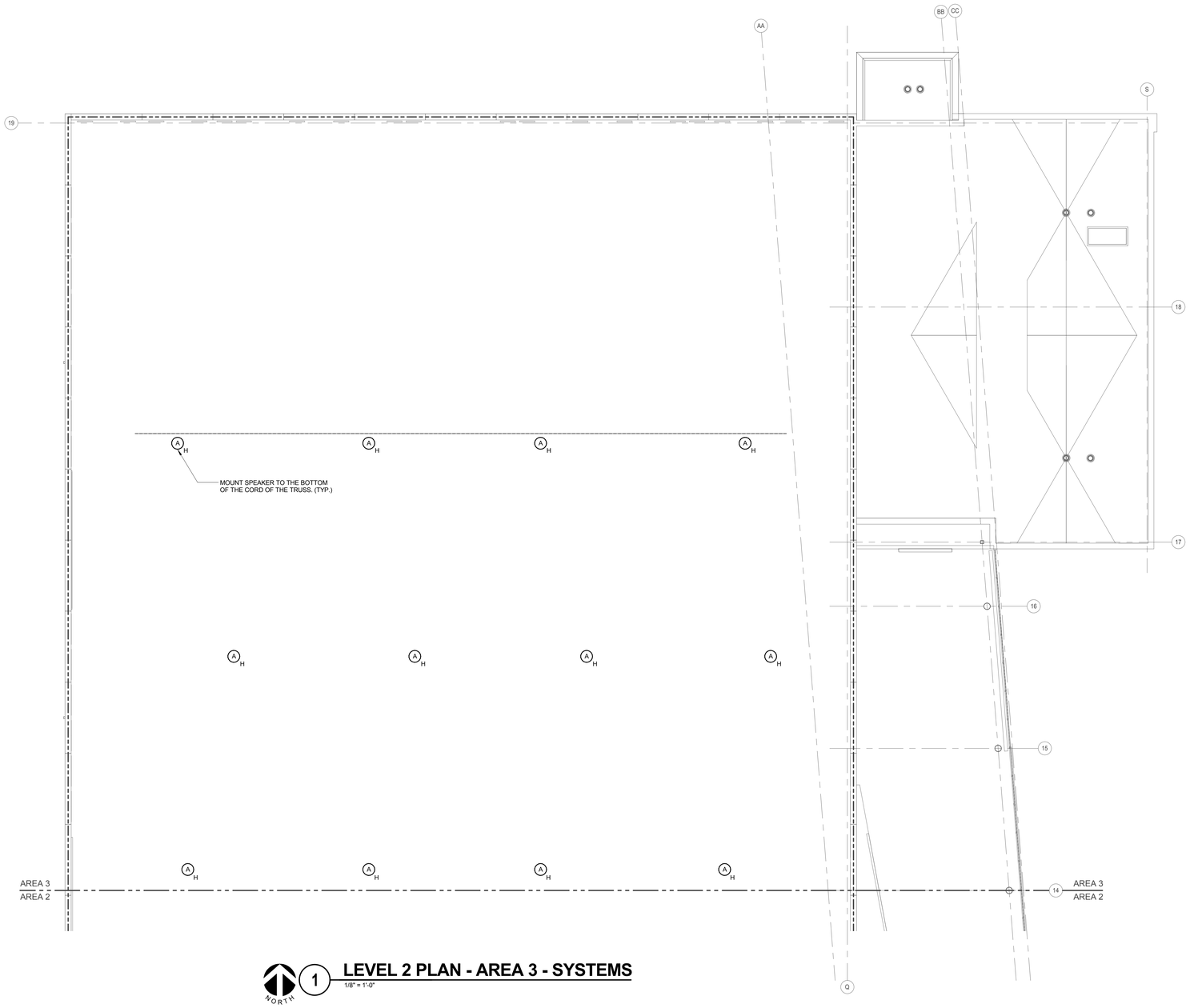

1 LEVEL 2 PLAN - AREA 3 - SYSTEMS

1/8" = 1'-0"

NORTH

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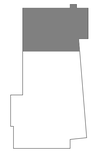

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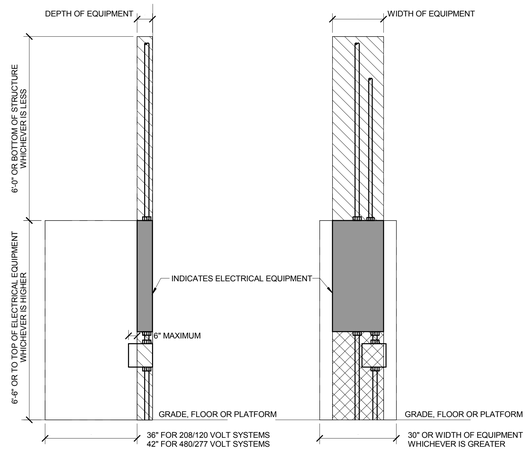


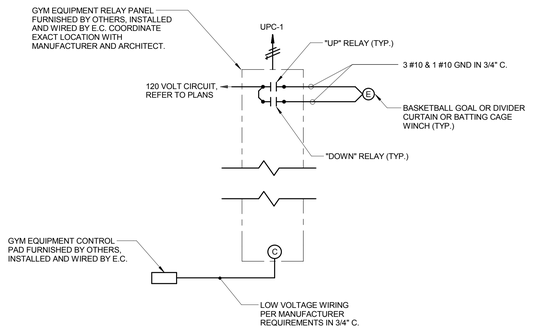
SECTION **ELEVATION**

1 PANELBOARD EQUIPMENT CLEARANCES

NO SCALE

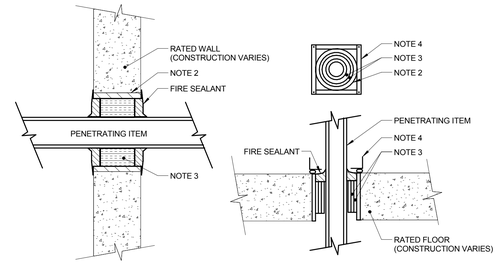
INDICATES WORKING SPACE REQUIRED PER NEC. ELECTRICAL EQUIPMENT LOCATED ABOVE OR BELOW OTHER RELATED EQUIPMENT SHALL NOT EXTEND MORE THAN 6" IN FRONT OF SUCH EQUIPMENT.

INDICATES DEDICATED ELECTRICAL SPACE REQUIRED PER NEC.



2 GYM EQUIPMENT CONTROL DIAGRAM

NO SCALE

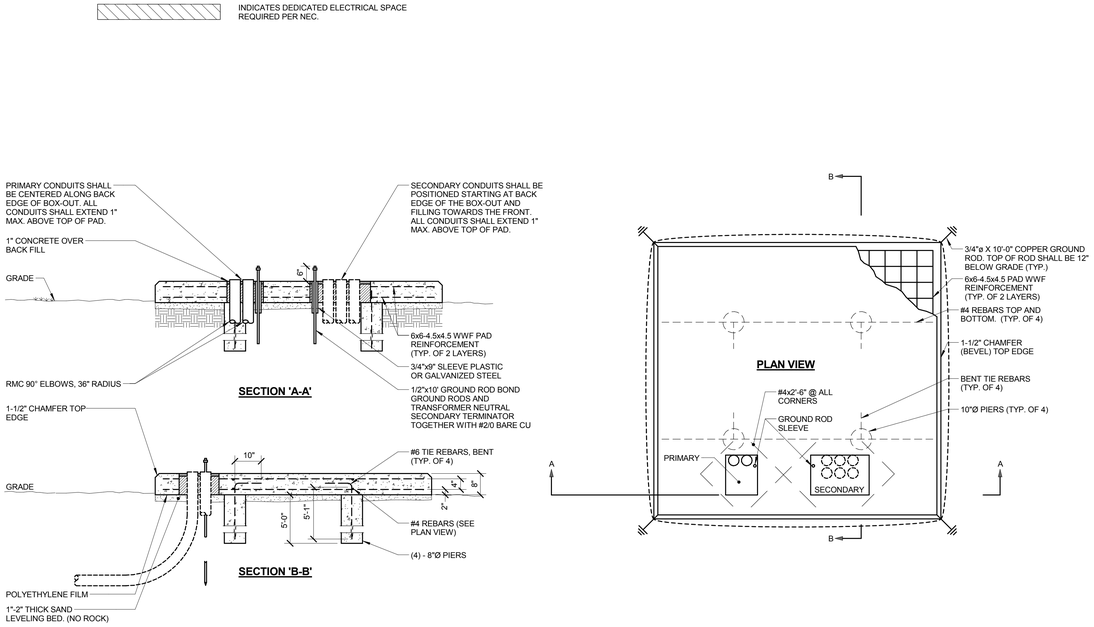


3 FIRE BARRIER PENETRATION

NO SCALE

NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 26 05 03 FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

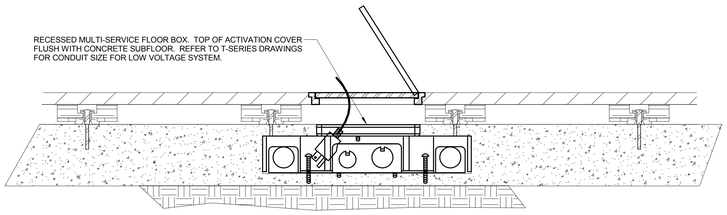


4 MEDIUM VOLTAGE TRANSFORMER PAD DETAIL

NO SCALE

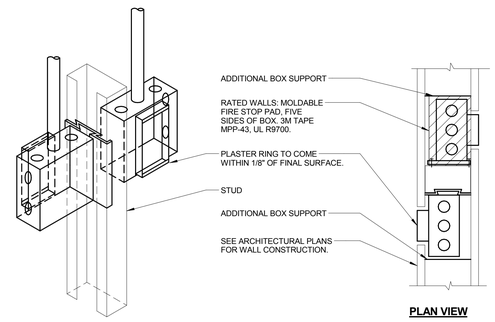
NOTES:

1. CONCRETE: fc ≥ 3500 PSI AT 28 DAYS.
2. REINFORCING STEEL: ASTM A 615-60.
3. 6x6-4.5x4.5 WELDED WIRE FABRIC (WWF): ASTM A 185.
4. SOIL: ≥ 95 PERCENT PROCTOR DENSITY OR 55 PSI PBV.
5. BASES SHALL EXTEND 3" ON ALL SIDES OF THE TRANSFORMER. COORDINATE EXACT DIMENSIONS WITH TRANSFORMER MANUFACTURER.



5 GYM FLOOR BOX DETAIL

NO SCALE



6 SIDE BY SIDE DEVICE OPENINGS

NO SCALE

NOTES:

1. HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E4.00

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Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
0 1 2 3

SYSTEM INPUTS \ SEQUENCE OF OPERATION		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	AR ELECTRIC SPRINKLER BELL SEQUENCE	ARD SMOKE DAMPER CONTROL SEQUENCE	AR AHU SHUTDOWN SEQUENCE	AR ELEVATOR RECALL SEQUENCE	AR ELEVATOR SHUT DOWN SEQUENCE
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X								
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION.			X								
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				X							
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X							
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X							
FIRE ALARM PANEL MANUAL FIRE DRILL			X		X	X					
MANUAL PULL STATION	F	X			X	X					
SMOKE DETECTOR	SD	X			X	X					
HEAT DETECTOR	H	X			X	X					
SPRINKLER SYSTEM FLOW SWITCH	FS MM	X			X	X	X				
SPRINKLER SYSTEM MONITOR SWITCH	MS MM		X								
SPRINKLER SYSTEM CABINET MONITOR	MS MM		X								
SMOKE DETECTOR FOR HVAC CONTROL	SD		X					X	X		
SMOKE DETECTORS IN ELEVATOR LOBBIES	SD E	X			X	X				X	
SMOKE DETECTORS IN ELEVATOR MACHINE ROOM & HOISTWAY	SD E	X			X	X				X	
HEAT DETECTOR NEAR ELEVATOR SPRINKLERS	H E	X			X	X					X
ELEVATOR SHUNT TRIP CIRCUIT POWER FAILURE	MM (1)		X								
SMOKE DETECTOR AT DOOR HOLD	SD DH	X			X	X					

1 FIRE ALARM OPERATION MATRIX

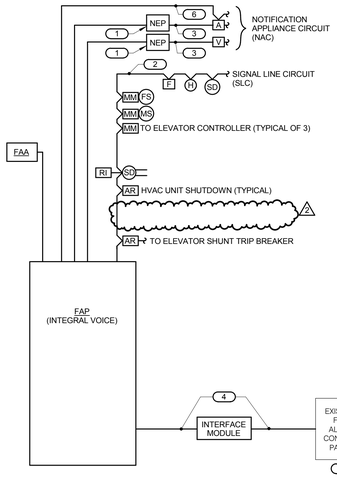
NO SCALE

NOTES:

1. ALL SYSTEM EVENTS SHALL BE LOGGED, PRINTED, AND DISPLAYED ON THE GRAPHICAL INTERFACE, IN THE EXISTING MAIN FIRE ALARM PANEL LOCATED IN THE CAMPUS COMMAND CENTER IN BUILDING G. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.

KEYNOTES:

(1) UTILIZE A GENERAL PURPOSE RELAY TO MONITOR POWER LOSS. CONNECT THE CONTACTS OF THE RELAY TO A FIRE ALARM MONITOR MODULE.



2 FIRE ALARM RISER

NO SCALE

GENERAL NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.

KEYNOTES:

(1) PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.

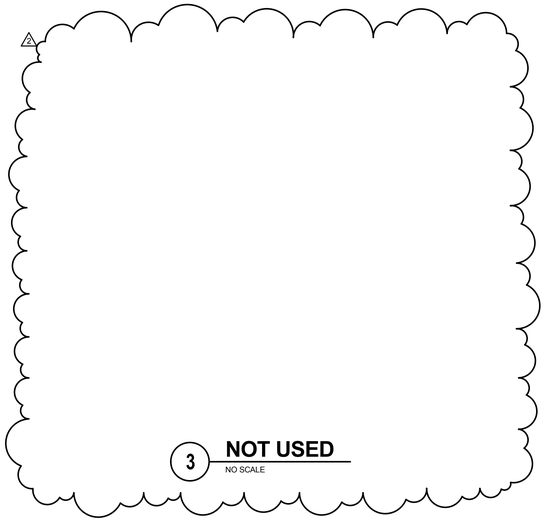
(2) REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.

(3) REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.

(4) CONNECT WITH 6-STRANDS FIBER OPTIC WIRING. REFER TO TECHNOLOGY DRAWINGS FOR FIBER OPTIC ROUTING. COORDINATE ADDITIONAL REQUIREMENTS WITH HONEYWELL.

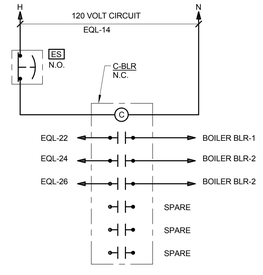
(5) INTERFACE NEW FIRE ALARM PANEL WITH EXISTING CAMPUS FIRE ALARM SYSTEM LOCATED IN BUILDING G. UPDATE EXISTING CAMPUS FIRE ALARM NETWORK MASTER WORKSTATION AND GRAPHIC ANNUNCIATOR. REFER TO E0.01 FOR APPOXIMATE LOCATION OF EXISTING PANEL. COORDINATE ADDITIONAL REQUIREMENTS WITH HONEYWELL.

(6) REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH SPEAKER CIRCUIT AND WIRING STYLE.



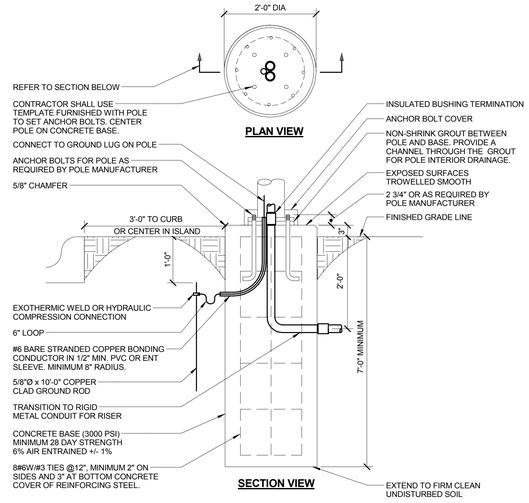
3 NOT USED

NO SCALE



4 BOILER SHUTDOWN CONTROL DIAGRAM

NO SCALE



5 POLE BASE DETAIL

NO SCALE

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E4.01

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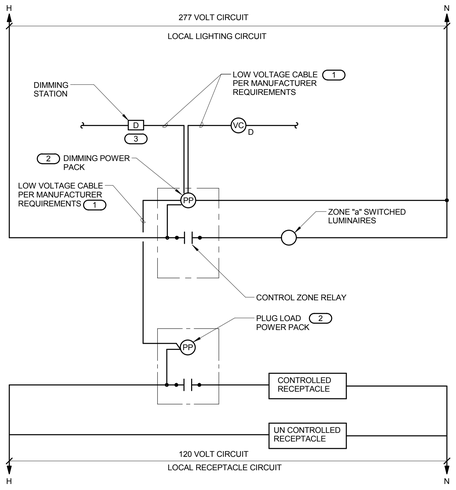
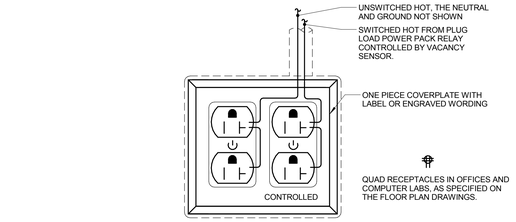


1 OFFICE LIGHTING CONTROLLER WIRING DIAGRAM

NO SCALE

KEYNOTES:

1. LOW VOLTAGE DEVICES SHALL HAVE THE ABILITY TO BE DAISY-CHAINED USING LOW VOLTAGE CABLE TO CONNECT MULTIPLE DEVICES.
2. LOCATE ROOM CONTROLLER POWER PACK ABOVE ACCESSIBLE CEILING ABOVE DOOR ENTRY.
3. CONTROLLER SHALL HAVE THE ABILITY TO SWITCH ON/OFF AND ADJUST DIMMING LEVEL OF ONE ZONE WITHIN THE ROOM.

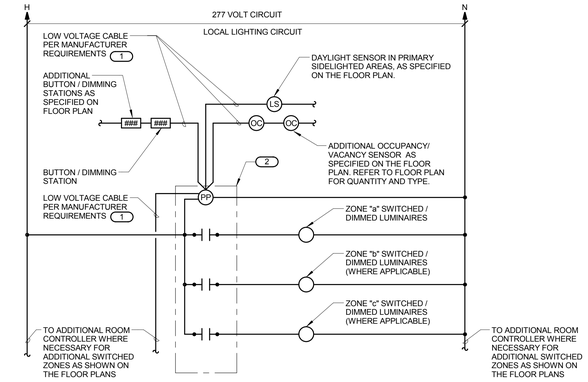


2 CONTROLLED RECEPTACLE WIRING

NO SCALE

NOTES:

1. CONTROLLED RECEPTACLE SHALL BE LABELED AS SUCH. LABEL CAN BE BY MANUFACTURER OR CONTRACTOR.

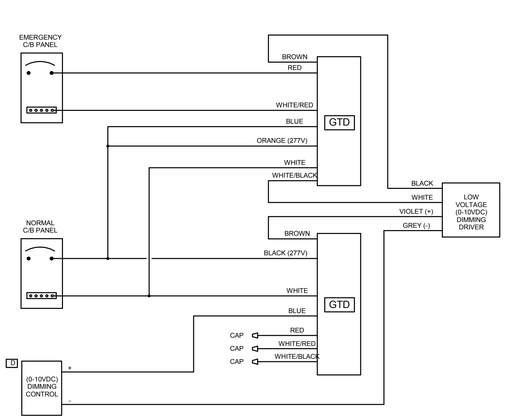


3 GENERAL OCCUPANCY / VACANCY SENSOR WIRING DIAGRAM

NO SCALE

KEYNOTES:

1. LOW VOLTAGE DEVICES SHALL HAVE THE ABILITY TO BE DAISY-CHAINED USING LOW VOLTAGE CABLE TO CONNECT MULTIPLE DEVICES.
2. LOCATE POWER PACK ABOVE ACCESSIBLE CEILING. PROVIDE APPROPRIATE TYPE DEPENDING ON LOAD SERVED (ON-OFF OR DIMMING). PROVIDE QUANTITY AS REQUIRED PER QUANTITY OF ZONES IN THE FLOOR PLAN.

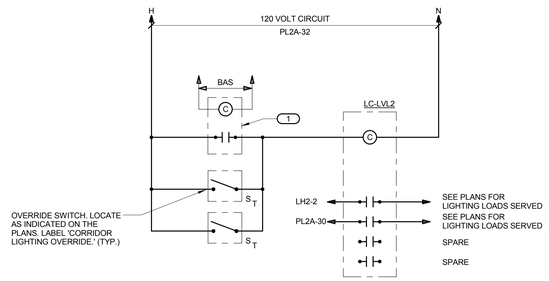


4 GENERATOR TRANSFER DEVICE WIRING DIAGRAM

NO SCALE

NOTES:

1. NORMAL OPERATION - FIXTURE DRIVER SUPPLIED BY NORMAL PANEL & CONTROLLED BY WALL SWITCH.
2. EMERGENCY OPERATION DURING POWER OUTAGE - FIXTURE DRIVER SUPPLIED BY GENERATOR THROUGH EMERGENCY PANEL AND INDEPENDENT OF WALL SWITCH POSITION.

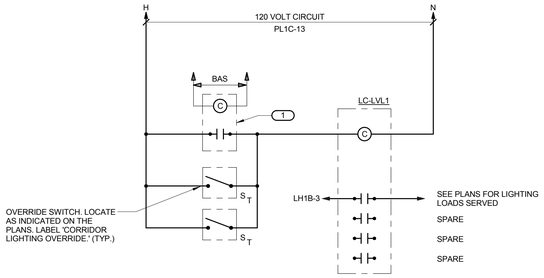


5 SECOND FLOOR CORRIDOR LIGHTING CONTROL DIAGRAM

NO SCALE

KEYNOTES:

1. RELAY CONTROLLED BY BUILDING AUTOMATION SYSTEM. PROVIDE RELAY COMPATIBLE TO THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH M.C. FOR ADDITIONAL INFORMATION.

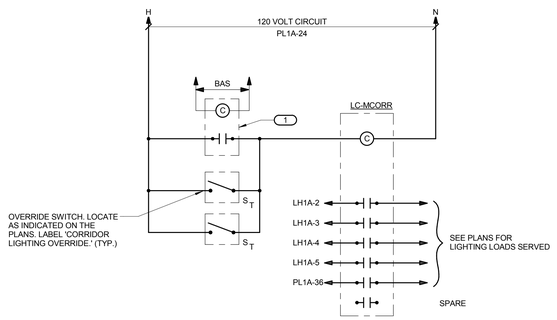


6 FIRST FLOOR CORRIDOR LIGHTING CONTROL DIAGRAM

NO SCALE

KEYNOTES:

1. RELAY CONTROLLED BY BUILDING AUTOMATION SYSTEM. PROVIDE RELAY COMPATIBLE TO THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH M.C. FOR ADDITIONAL INFORMATION.



7 MAIN CORRIDOR LIGHTING CONTROL DIAGRAM

NO SCALE

KEYNOTES:

1. RELAY CONTROLLED BY BUILDING AUTOMATION SYSTEM. PROVIDE RELAY COMPATIBLE TO THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH M.C. FOR ADDITIONAL INFORMATION.

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E4.02

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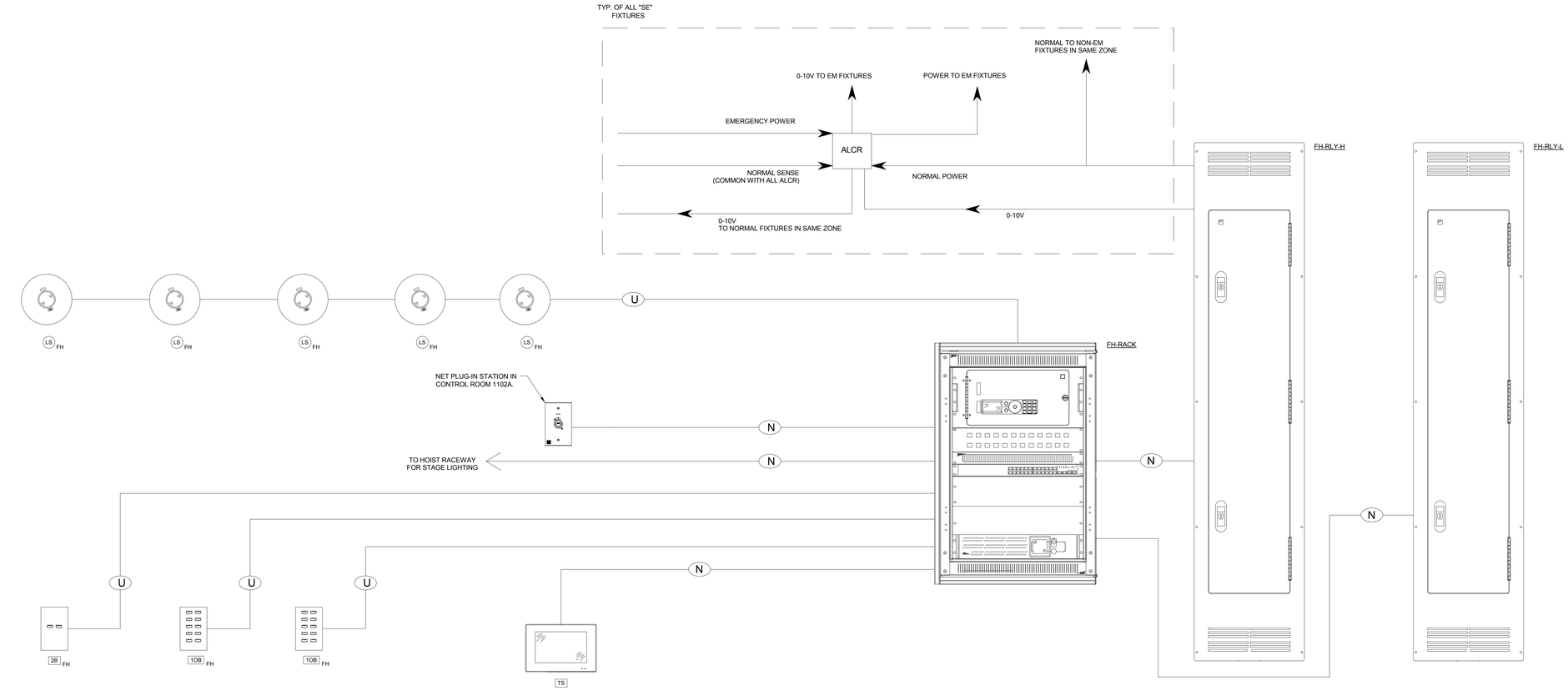
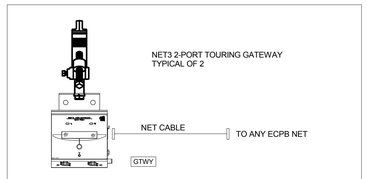




NOTES:

1.) WIRING IS TOPOLOGY FREE AND CAN BE DAISY-CHAIN, T-TAP, OR LOOP.

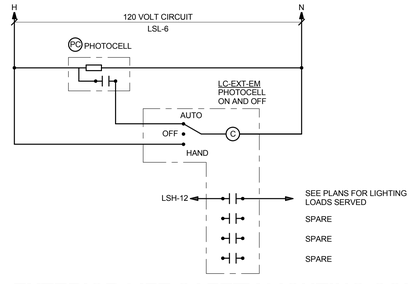
2.) TOTAL COMBINED LENGTH OF WIRING RUNS CANNOT EXCEED 1640 FEET.

3.) EACH CIRCUIT FROM DIMMER RACK MUST HAVE SEPERATE NEUTRAL. NO COMMON NEUTRALS ALLOWED.

CONTROL WIRING LEGEND		
SYMBOL	WIRE TYPE(S)	SIGNAL
(N*)	(1) BELDEN #1583A (CAT5e)	ETCNET
(U*)	(1) BELDEN #8471 (1) #14 AWG. STRANDED WIRE	UNISON
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)		

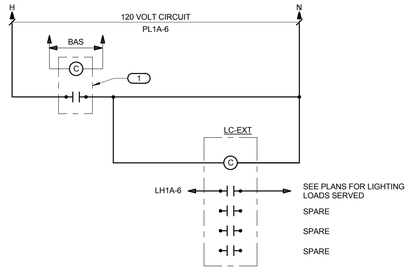
1 FIELD HOUSE LIGHTING CONTROL DIAGRAM

NO SCALE



2 EXTERIOR LIFE SAFETY LIGHTING CONTROL DIAGRAM

NO SCALE



3 EXTERIOR LIGHTING CONTROL DIAGRAM

NO SCALE

KEYNOTES:

(1) RELAY CONTROLLED BY BUILDING AUTOMATION SYSTEM. PROVIDE RELAY COMPATIBLE TO THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH M.C. FOR ADDITIONAL INFORMATION.

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1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E4.03

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REFERENCE SCALE IN INCHES
0 1 2 3

LUMINAIRE SCHEDULE

(MTG) MOUNTING:
RE - RECESSED
SP - SUSPENDED
CL - CEILING SURFACE
WL - WALL
UC - UNDER CABINET
CV - COVE
PL - POLE
FR - FLANGED RECESSED
O - OTHER (SEE DESCRIPTION)

DOOR:
FA - FLAT ALUMINUM
FS - FLAT STEEL
RA - REGRESSED ALUMINUM
RS - REGRESSED STEEL

FINISH:
PAF - PAINT AFTER FABRICATION
CSA - FINISH SELECTION BY ARCHITECT

(TYPE) LAMP TECHNOLOGY:
FL - FLUORESCENT
CF - COMPACT FLUORESCENT
HL - HALOGEN
IN - INCANDESCENT
LED - LIGHT EMITTING DIODE
HS - HIGH PRESSURE SODIUM
MH - METAL HALIDE
SMH - SUPER METAL HALIDE
PSMH - PULSE START METAL HALIDE
CMH - CERAMIC METAL HALIDE
O - OTHER (SEE DESCRIPTION
XL - EXTENDED LIFE
XLP - EXTENDED LIFE & OUTPUT

(TYPE) BALLAST:
DIM07 - LINE DIMMING BALLAST
DIM10 - 0-10V DIMMING BALLAST
HL - HIGH / LOW LEVEL BALLAST
ML - MULTI-LEVEL SWITCHING
HP - HIGH PERFORMANCE / LBF

(L/L) LENS / LOUVER:
A - .125 ACRYLIC
B - BLACK BAFFLE
C - CLEAR ALZAK
D - PARABOLIC
F - FRESNEL
G - TEMPERED GLASS
H - WALL WASHER
P - POLYCARBONATE
K - KSH12 .125" ACRYLIC
K19 - KSH19 .156" ACRYLIC
L - LOW IRIDESCENT SPECULAR ALUM.
N - NONE
R - HIGH IMPACT OR ACRYLIC
O - OTHER (SEE DESCRIPTION)

(TYPE) BALLAST:
ED - ELECTRONIC DRIVER
EM - EMERGENCY BATTERY / BALLAST
DALI - DIGITAL DIMMING BALLAST
MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO LIGHTING SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
CORRELATED COLOR TEMPERATURE 3500°, COLOR RENDERING INDEX (CRI) AT OR ABOVE 85, UNLESS NOTED OTHERWISE.

ID	DESCRIPTION	DIMENSIONS L	W	H	DIA.	MTG	LAMPS TYPE	QTY	MODEL	BALLAST VOLTS	TYPE	L/L	APPROVED MANUFACTURER
F1	RECESSED TROFFER, ANGLED DIFFUSERS.	2' - 0"	2' - 0"	0' - 3"		RE	LED	1	MIN 3400 L MAX 35 W	277 V	DIM	O	METALUX 22EN FINELITE HPR LITHONIA FSL COLUMBIA RLA
F2	RECESSED TROFFER, ANGLED DIFFUSERS.	2' - 0"	2' - 0"	0' - 3 1/4"		RE	LED	1	MIN 4300 L MAX 48 W	277 V	DIM	O	METALUX 22EN FINELITE HPR LITHONIA FSL COLUMBIA RLA
F3A	8-FEET LED DIRECT LINEAR, PENDANT MOUNTED WITH AIR CRAFT CABLE, COORDINATE FINISH SELECTION WITH ARCHITECT. HIGH OUTPUT - 990LUMENS PER FOOT. FIXTURE SHALL BE SUITABLE FOR CONTINUOUS ROW MOUNTING WITH NO VISIBLE SEAMS OR EXPOSED HOUSING BETWEEN F3A, F3B, F3C, AND BETWEEN SURFACE MOUTNED F11 FIXTURE.		0' - 4"	0' - 4 1/2"		SP	LED	1	MIN 7900 L MAX 100 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F3B	SIMILAR WITH F3A EXCEPT FIXTURE LENGTH IS 6-FEET.		0' - 4"	0' - 4 1/2"		SP	LED	1	MIN 5900 L MAX 75 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F3C	SIMILAR WITH F3A EXCEPT FIXTURE LENGTH IS 4-FEET.		0' - 4"	0' - 4 1/2"		SP	LED	1	MIN 3900 L MAX 50 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F4A	4-FEET LED DIRECT LINEAR, RECESSED MOUNTED. COORDINATE FINISH SELECTION WITH ARCHITECT. HIGH OUTPUT - 990LUMENS PER FOOT. FIXTURE SHALL BE SUITABLE FOR CONTINUOUS ROW MOUNTING WITH NO VISIBLE SEAMS OR EXPOSED HOUSING BETWEEN FIXTURES. RECESSED IN SAT CEILING.		0' - 4"	0' - 4 1/2"		RE	LED	1	MIN 3900 L MAX 50 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F4B	SIMILAR WITH F4A EXCEPT FIXTURE OUTPUT IS 575 LUMENS PER FOOT.		0' - 4"	0' - 4 1/2"		RE	LED	1	MIN 2300 L MAX 30 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F5	ROUND PAR30 DOWNLIGHT PROVIDE WITH PAR30 LED RETROFIT BULB, DIMMABLE, MIN 100L, MAX 20W, 3000K (LIGHTING SCIENCE, CREE, PHILIPS, SAMSUNG, SORAA, OR GE)			0' - 11 3/16"	0' - 6"	RE	LED	1	SEE DESC.	277 V	ED	N	INDY ID36 GOTHAM APR PORTFOLIO PRESCOLITE LF6INC
F5A	SIMILAR WITH F5 BUT MOUNTED ON WOOD PANEL. PROVIDE APPROPRIATE MOUNTING HARDWARE.			0' - 11 3/16"	0' - 6"	RE	LED	1	SEE DESC.	277 V	ED	N	INDY ID36 GOTHAM APR PORTFOLIO PRESCOLITE LF6INC
F6	HIGH BAY LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, 6 MODULE, 120 DEGREE OPTICS, UL LISTED.	2' - 9"	1' - 10"	0' - 6"		SP	LED	1	MIN 52000 L MAX 490 W	277 V	DIM	O	GE LIGHTING ALBEO LED CREE HBY-EHO
F7	WALL PACK LUMINAIRE, ONE PIECE DIE-CAST ALUMINUM CONSTRUCTION, STAINLESS STEEL MOUNTING, ZINC PLATED QUICK MOUNT JUNCTION BOX. CUSTOM COLOR-COORDINATE WITH ARCHITECT.	1' - 4"	0' - 7 3/4"	0' - 8 1/8"		WL	LED	1	MIN 2100 L MAX 27 W	277 V	ED	O	INVUE ENT-B##-LED LITHONIA LUMARK
F8	STAGE LIGHTING, LED, SEVEN COLOR SYSTEM INCLUDING HIGH-OUTPUT LIME TO ACHIEVE TRU, USABLE BROAD-SPECTRUM COLOR, DMX CONTROL, MOUNTED ON HOIST/TRACK SYSTEM IN THE FIELD HOUSE.	2' - 1"	1' - 1 1/2"		0' - 7"	O	LED	1	3900 L 100 W	120 V	LED	O	ETC SOURCE FOUR LED SERIES 2
F9	6" NON-CONDUCTIVE, SHOWER DOWNLIGHT			0' - 7 1/2"	0' - 6"	RE	LED	1	MIN 1400 L MAX 31 W	277 V	ED	O	GOTHAM EVO PORTFOLIO KIRUA
F10	SURFACE MOUNT STRIP, WHITE PAINTED STEEL HOUSING, ACRYLIC LENS, SUSPEND WHEN NOTED ON PLANS.	4' - 0"	2' - 0 1/2"	0' - 3"		CL/SP	LED	1	MIN 4000 L MAX 45 W	277 V	ED	O	CREE LS4 GE ALC4 DAY-BRITE LF LITHONIA ZL1N METALUX SNLED DECO LIGHTING CURVE
F11	4-FEET LED DIRECT LINEAR, SURFACE MOUNTED. COORDINATE FINISH SELECTION WITH ARCHITECT. HIGH OUTPUT - 1000LUMENS PER FOOT. FIXTURE SHALL BE SUITABLE FOR CONTINUOUS ROW MOUNTING WITH NO VISIBLE SEAMS OR EXPOSED HOUSING BETWEEN F3A, F3B AND F3C FIXTURES.		0' - 4"	0' - 4 1/2"		CL	LED	1	MIN 3900 L MAX 50 W	277 V	DIM	O	LUMENWERX VIA 4 LED VIA4 PAL MICROLINEA MLS5
F12	ENCLOSED INDUSTRIAL LINEAR LED WITH FIBER GLASS HOUSING, UL WET LOCATION.	4' - 0"	0' - 2 1/2"	0' - 3"		WL	LED	1	MIN 4000L MAX 45W	120 V	ED	O	HE WILLIAMS 96-4-L40/835 METALUX LITHONIA COLUMBIA LXEP

LUMINAIRE SCHEDULE

(MTG) MOUNTING:
RE - RECESSED
SP - SUSPENDED
CL - CEILING SURFACE
WL - WALL
UC - UNDER CABINET
CV - COVE
PL - POLE
FR - FLANGED RECESSED
O - OTHER (SEE DESCRIPTION)

DOOR:
FA - FLAT ALUMINUM
FS - FLAT STEEL
RA - REGRESSED ALUMINUM
RS - REGRESSED STEEL

FINISH:
PAF - PAINT AFTER FABRICATION
CSA - FINISH SELECTION BY ARCHITECT

(TYPE) LAMP TECHNOLOGY:
FL - FLUORESCENT
CF - COMPACT FLUORESCENT
HL - HALOGEN
IN - INCANDESCENT
LED - LIGHT EMITTING DIODE
HS - HIGH PRESSURE SODIUM
MH - METAL HALIDE
SMH - SUPER METAL HALIDE
PSMH - PULSE START METAL HALIDE
CMH - CERAMIC METAL HALIDE
O - OTHER (SEE DESCRIPTION
XL - EXTENDED LIFE
XLP - EXTENDED LIFE & OUTPUT

(TYPE) BALLAST:
DIM07 - LINE DIMMING BALLAST
DIM10 - 0-10V DIMMING BALLAST
HL - HIGH / LOW LEVEL BALLAST
ML - MULTI-LEVEL SWITCHING
HP - HIGH PERFORMANCE / LBF

(L/L) LENS / LOUVER:
A - .125 ACRYLIC
B - BLACK BAFFLE
C - CLEAR ALZAK
D - PARABOLIC
F - FRESNEL
G - TEMPERED GLASS
H - WALL WASHER
P - POLYCARBONATE
K - KSH12 .125" ACRYLIC
K19 - KSH19 .156" ACRYLIC
L - LOW IRIDESCENT SPECULAR ALUM.
N - NONE
R - HIGH IMPACT OR ACRYLIC
O - OTHER (SEE DESCRIPTION)

(TYPE) BALLAST:
ED - ELECTRONIC DRIVER
EM - EMERGENCY BATTERY / BALLAST
DALI - DIGITAL DIMMING BALLAST
MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO LIGHTING SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
CORRELATED COLOR TEMPERATURE 3500°, COLOR RENDERING INDEX (CRI) AT OR ABOVE 85, UNLESS NOTED OTHERWISE.

ID	DESCRIPTION	DIMENSIONS L	W	H	DIA.	MTG	LAMPS TYPE	QTY	MODEL	BALLAST VOLTS	TYPE	L/L	APPROVED MANUFACTURER
F13	4" EXTRUDED ALUMINUM LINEAR FIXTURE, CONTINOUS LENGTH, DIRECT DISTRIBUTION, SATIN ACRYLIC LENS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND CEILING TYPES, VERIFY WITH ARCHIECH		0' - 4"	0' - 5"		RE	LED	1	MIN 2500 L MAX 30 W	277 V	ED	O	FOCAL POINT SEEM 4 ALIGHT D SERIES AXIS BEAM 4 PINNACLE EDGE 4 NULITE RELOGO 4
F14	SQUARE LED DOWNLIGHT	0' - 4 1/2"	0' - 4 1/2"	0' - 0"		RE	LED	1	MIN 1600 L MAX 31 W	277 V	ED	O	PRESCOLITE LF4SQLED/G4 FOCAL POINT ID INDY
F15	DECORATIVE LED PENDANT, MATTE BLACK FINISH WITH WHITE CORD.			0' - 8 5/16"	0' - 6 5/16"	SP	LED	1	MIN 1200L MAX 12W 3500K	277 V	ED	O	ILOMIO COWBELLE PCPF-03/S
F16	17" LINEAR SUITABLE FOR CONTINOUS ROW MOUTING, EXTRUDED ALUMINUM HOUSING.		0' - 3 3/4"	0' - 4"		RE	LED	1	MIN 5100 L MAX 98 W	277 V	DIM	O	FOCAL POINT TRACE PMC LIGHTING ES44 AXIS BEAM LUMENWERX
F17	RECESSED TROFFER, ANGLED DIFFUSERS.	2' - 0"	2' - 0"	0' - 3"		RE	LED	1	MIN 2500 L MAX 26 W	277 V	DIM	O	METALUX 22EN FINELITE HPR LITHONIA FSL COLUMBIA RLA
F18	2" LED ADJUSTABLE DOWN LIGHT, HIGH OUTPUT.			0' - 6 1/2"	0' - 2"	RE	LED	1	MIN 900 L 17 W	120 V	LED	O	PRESCOLITE AOLES GOTHAM INCITO LIGHTOLIER CALCULITE LED
F19	6" ARCHITECTURAL LED DOWNLIGHT, LENSED WALLWASH,SELF-FLANGED SEMI-SPECULAR, DAMP LISTED, MOUNTED UNDER EXTERIOR CANOPY.			0' - 10"	0' - 6"	RE	LED	1	1000 L 21.5 W	277 V	LED	O	PRESCOLITE LF6LED/G4 GOTHAM EVO LW35/10 PORTFOLIO
F20	LINEAR WALL WASH, SUITABLE FOR CONTINUOUS ROW MOUNTING, COLD ROLLED STEEL HOUSING.	4' - 0"	0' - 8"	0' - 4"		RE	LED	1	MIN 2400L MAX 38W	277 V	LED	H	FINELITE HPW ALIGHT D SERIES H.E. WILLIAMS HETW
F20A	LINEAR WALL WASH, SUITABLE FOR CONTINUOUS ROW MOUNTING, COLD ROLLED STEEL HOUSING.	2' - 0"	0' - 8"	0' - 4"		RE	LED	1	MIN 2400L MAX 38W	277 V	LED	H	FINELITE HPW ALIGHT D SERIES H.E. WILLIAMS HETW
F21	DECORATIVE LED PENDANT, MATTE BLACK FINISH WITH WHITE CORD.			0' - 10"	1' - 0"	SP	LED	1	MIN 1600L MAX 16W 3500K	277 V	DIM	O	ILOMIO COWBELLE PCPF-03/M
F22	EXTERIOR RECESSED SLOT LED, WET LISTED. COORDINATE EXACT LENGTH AND LOCATION WITH FLOOR PLAN.		0' - 4"	0' - 3 1/2"		RE	LED	1	500 L/FT 5.5 W/FT	277 V	DIM	O	AXIS BEAM 4 LUMENWERX LEDALITE
F23	8" ARCHITECTURAL LED DOWNLIGHT, SELF-FLANGED SEMI-SPECULAR, LOWER REFLECTOR, DAMP LISTED, MOUNTED UNDER EXTERIOR CANOPY.			0' - 9"	0' - 8"	RE	LED	1	3000 L 47.1 W	277 V	LED	O	PRESCOLITE LF8LED8G4 GOTHAM EVO 35/25 PORTFOLIO
S1	PATHWAY AREA LIGHT, TYPE II MEDIUM DISTRIBUTION, R3 MOUTNING, 40 LED COUNT WITH 700mA DRIVE CURRENT, 5700K COLOR TEMPERATURE, BRONZE FINISH, UL WET LISTED. ROUND STRAIGHT STEEL POLE, 12'-0" HIGH, 3" SHAFT DIAMETER.	1' - 11"	1' - 11"	1' - 10"		PL	LED	1	7000 L 100 W	277 V	LED	O	CREE EDGE SERIES ARE-EDG-2M-R3-04
X1	A/C ONLY EDGE-LIT SINGLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC LENS AND EXTRUDED ALUMINUM HOUSING. RED LETTERING ON WHITE PANEL. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS.	0' - 4"	1' - 5"	0' - 8"		CL/WL	LED	1	MAX 3 W	277 V	LED	O	SURE-LITES ELX LITHONIA LRP DUAL-LITE LE S CHLORIDE 45V NAVILITE NXE
X3	SINGLE-FACE EMERGENCY EXIT SIGN, DIE-CAST ALUMINUM BODY, RED LETTERS, UNIVERSAL ARROWS/MOUNTING. "W" SUBSCRIPT IN THE FLOOR PLAN INDICATES FIXTURE IS TO BE PROVIDED WITH WIRE GUARD.	0' - 11 1/2"	0' - 2"	0' - 9 1/2"		CL/WL	LED	1	MAX 3.5 W	277 V	EM	O	LITHONIA LES 1 EL N SD DUAL-LITE SES EI PHILIPS CHLORIDE

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JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E5.00

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REFERENCE SCALE IN INCHES
0 1 2 3

TRANSFORMER SCHEDULE

TYPE:
TP1 - NEMA TP1 DRY TYPE
K4 - K4 RATED DRY TYPE
K13 - K13 RATED DRY TYPE
HM - HARMONIC MITIGATING
PE - NEMA PREMIUM EFFICIENCY

AUT - AUTOTRANSFORMER
BB - BUCK BOOST
LIQ - LIQUID FILLED

REMARKS:
AL - ALUMINUM WINDINGS
CU - COPPER WINDINGS
RS - EPOXY RESIN ENCAPSULATED
FL - FILTERED
NV - NON-VENTILATED
NL - 200% RATED NEUTRAL
EL - ELECTROSTATIC SHEILD

ENCLOSURE: NEMA 1 UNLESS SPECIFIED OTHERWISE

TAG NAME	KVA RATING	TYPE	MAX. TEMP. RISE C.	PRIMARY		SECONDARY		TAPS			REMARKS	APPROVED MANUFACTURER
				VOLTS	PH	VOLTS	PH	% REG	#(+)	#(-)		
TR-30	30 kVA	TP1	150	480 V	3	208Y/120	3	2.5	2	4	AL	SQUARE D 7400 EE30T3H CUTLER-HAMMER TYPE DT-3 GENERAL ELECTRIC TYPE QL SIEMENS 3F3Y030TP1
TR-45	45 kVA	TP1	150	480 V	3	208Y/120	3	2.5	2	4	AL	SQUARE D 7400 EE45T3H CUTLER-HAMMER TYPE DT-3 GENERAL ELECTRIC TYPE QL SIEMENS 3F3Y045TP1
TR-75	75 kVA	TP1	150	480 V	3	208Y/120	3	2.5	2	4	AL	SQUARE D 7400 EE75T3H CUTLER-HAMMER TYPE DT-3 GENERAL ELECTRIC TYPE QL SIEMENS 3F3Y075TP1
TR-225	225 kVA	TP1	150	480 V	3	208Y/120	3	2.5	2	4	AL	SQUARE D 7400 EE225T3H CUTLER-HAMMER TYPE DT-3 GENERAL ELECTRIC TYPE QL SIEMENS 3F3Y225TP1

VARIABLE FREQUENCY DRIVE SCHEDULE

STARTER TYPE:
PWM - PULSE WIDTH MODULATED
12PWM - 12 PULSE PWM
18PWM - 18 PULSE PWM
LINE DISCONNECT:
DS - DISCONNECT SWITCH
FDS - FUSED DISCONNECT SWITCH
CB - CIRCUIT BREAKER
CONTROL:
PN - 3-15 PSI TRANSDUCER
420 - 4-20mA FOLLOWER

REMARKS:
SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)
*MA - MANUAL SPEED ADJUSTMENT
*ET - ELECTRONIC THERMAL OVERLOADS
*CT - CONTROL TRANSFORMER, FUSED, 120V
*HA - HAND-OFF-AUTO DOOR SWITCH
TO - MELTING THERMAL OVERLOADS
MOL - MULTIPLE MOTOR OVERLOADS
TA - TWO CONVERTIBLE AUXILIARY CONTACTS
ISO - ISOLATION TRANSFORMER
*SHZ - SKIP FREQUENCY CAPABILITY
RSS - REMOTE START-STOP
RDR - REMOTE DRIVE RUN
RFT - REMOTE FAULT TRIP
LR - INPUT LINE REACTOR
HAR - PASSIVE HARMONIC FILTER

ITEM	LINE DISC.	DRIVE BYPASS	CONTROL	VOLTAGE			DRIVE		NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
				INPUT	OUTPUT	PH.	H.P. RATING	TYPE			
VFD-15	CB	N/A	420	460 V	460 V	3	15 (2)	PWM	1	SA VARIABLE TORQUE	TOSHIBA Q9 SERIES ABB ACH 550 SERIES ALLEN BRADLEY POWERFLEX DANFOSS VLT6000 SERIES G.E. AF300 P11 SERIES SQUARE D M-FLEX CUTLER HAMMER ECS SVX YASKAWA E7

CONTACTOR SCHEDULE

SWITCH TYPE:
EH - ELECTRICALLY HELD
MH - MECHANICALLY HELD

REMARKS:
HOA - HAND OFF AUTO

ITEM	SWITCH TYPE	CONTACT VOLTAGE	POLES	AMPERAGE	NEMA ENCLOSURE	COIL VOLTAGE	REMARKS	APPROVED MANUFACTURER
LC-LVL1 LC-LVL2 LC-EXT-EM	EH	300	4	30	1	120		SQUARE D 8903-LG04 GENERAL ELECTRIC CR463L CUTLER-HAMMER CN35DG SIEMENS LEN SERIES
LC-EXT-EM	EH	300	4	30	1	120	HOA	SQUARE D 8903-LG04 GENERAL ELECTRIC CR463L CUTLER-HAMMER CN35DG SIEMENS LEN SERIES
LC-MCORR C-BLR	EH	300	6	30	1	120		SQUARE D 8903-LG06 GENERAL ELECTRIC CR463L CUTLER-HAMMER CN25DG SIEMENS LEN SERIES

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:
FU - FUSED
NF - NON-FUSED
CB - CIRCUIT BREAKER

STARTER TYPE:
FV - FULL VOLTAGE
YD - WYE - DELTA
RE - REVERSING
TW - 2 SPEED, 2 WINDING
SW - 2 SPEED, 1 WINDING
RV - REDUCED VOLTAGE AUTOXFMR
SS - SOLID STATE
MS - MANUAL STARTER
MX - MANUAL SWITCH
FS - FUSED SWITCH

REMARKS:
SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)
*CT - CONTROL TRANSFORMER, FUSED 120V
*EO - ELECTRONIC OVERLOAD
*HA - HAND-OFF-AUTO IN DOOR
*RP - RED PILOT LIGHT IN DOOR
*TA - TWO CONVERTIBLE AUXILIARY CONTACTS
S/N - INSULATED NEUTRAL ASSEMBLY
PF - PHASE FAILURE RELAY (5 HP OR GREATER)
TO - MELTING THERMAL OVERLOADS
TS - 2 SPEED SELECTOR SWITCH IN DOOR
GP - GREEN (OFF) PILOT LIGHT IN DOOR
FA - 4-CONVERTIBLE AUXILIARY CONTACTS
EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
SS - START-STOP PUSHBUTTON IN DOOR
HL - HANDLE PADLOCK HASP

ITEM	DISCONNECT TYPE & RATING		CIRCUIT VOLTAGE	POLES	STARTER		NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
	TYPE	RATING			NEMA SIZE	TYPE			
DS-30	NF	30 A	600 V	3			1		SQUARE D 3110 HU361 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-30A	NF	30 A	600 V	3			1	HL	SQUARE D 3110 HU361 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-30R	NF	30 A	600 V	3			3R		SQUARE D 3110 HU361RB CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-60	NF	60 A	600 V	3			1		SQUARE D 3110 HU362 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-200	NF	200 A	480 V	3			1		SQUARE D 3110 HU364 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
FDS-30L	FU	30 A	240 V	2			1	S/N LIGHT DUTY	SQUARE D 3130 L221N CUTLER-HAMMER GENERAL ELECTRIC SIEMENS
FDS-60	FU	60 A	600 V	3			1	REFER TO ELECTRICAL ONE LINE DIAGRAM SHEET	SQUARE D 3110 H362 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HF
FDS-60A	FU	60 A	240 V	3			1	REFER TO ELECTRICAL ONE LINE DIAGRAM SHEET	SQUARE D 3110 H322N CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HF
FDS-100	FU	100 A	600 V	3			1	REFER TO ELECTRICAL ONE LINE DIAGRAM SHEET	SQUARE D 3110 H363 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HF
FDS-100A	FU	100 A	240 V	3			1	REFER TO ELECTRICAL ONE LINE DIAGRAM SHEET	SQUARE D 3110 H323N CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HF
FED-60	FU	60 A	600 V	3			1	ELEVATOR SHUNT TRIP, CT, FUSE PER ELEVATOR MFC RECOMMENDATIONS.	BUSSMANN PS6T48R2 MERSEN ES6T48R2 CUTLER HAMMER ES2T48R2 LITTELFUSE LPS6T48R2
MS-1		16 A	120 V	1	0	MS	1	RP, TO	SQUARE D 2510 FG1P CUTLER-HAMMER TYPE MS GENERAL ELECTRIC CR101 SIEMENS TYPE SMF
MX-1		16 A	120 V	1	0	MX	1		SQUARE D 2510 FG1P CUTLER-HAMMER TYPE B2 GENERAL ELECTRIC TYPE TC SIEMENS TYPE MMS

TRANSFER SWITCH SCHEDULE

SWITCH TYPE:
AUTO - AUTOMATIC
BII - AUTOMATIC WITH BYPASS ISOLATION
MAN - MANUAL OPERATION
CT - CLOSED TRANSITION
DT - DELAY TRANSITION - CENTER OFF
STAT - STATIC SOLID STATE
/30 - 30 CYCLE WITHSTAND RATING
SN - SWITCHED NEUTRAL
ON - OVERLAPPING SWITCHED NEUTRAL
DN - SOLID NEUTRAL

ACCESSORIES: (ACC)
EE - ENGINE EXERCISER
IM - IN-PHASE MONITOR
SH - STRIP HEATER WITH THERMOSTAT
RM - REMOTE ANNUNCIATOR
RC - REMOTE CONTROL CIRCUITS
EL - ELEVATOR EMERGENCY TO NORMAL PRESIGNAL
SP - SERIAL COMMUNICATIONS PORT
PM - POWER MONITORING METER
RTC - REMOTE TRANSFER CONTROL FROM FIRE COMMAND CENTER
RMC - REMOTE ANNUNCIATION AT FIRE COMMAND CENTER
TI - TRANSFER INHIBIT
LS - LOAD SHED

ITEM	SWITCH				NEMA ENCLOSURE TYPE	ACC	REMARKS	APPROVED MANUFACTURERS
	TYPE	VOLTAGE	POLES	AMPS				
ATS-EQ	AUTO	480 V	3	100 A	1	EE, IM, DN	GENERATOR START DELAY 10 SECONDS TRANSFER TO EMERGENCY DELAY: 30 SECONDS RETRANSFER TO NORMAL DELAY: 120 SECONDS	ASCO 300 SERIES GE ZENITH ZTG SERIES RUSSEL ELECTRIC RMT SERIES GENERATOR SYSTEM MANUFACTURERS
ATS-LS	AUTO	480 V	3	100 A	1	EE, IM, DN	LIFE SAFETY BRANCH PRIORITY GROUP: 1 GENERATOR START DELAY .5 SECONDS TRANSFER TO EMERGENCY DELAY: .5 SECONDS RETRANSFER TO NORMAL DELAY: 300 SECONDS	ASCO 300 SERIES GE ZENITH ZTG SERIES RUSSEL ELECTRIC RMT SERIES GENERATOR SYSTEM MANUFACTURERS

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STRUCTURAL AND MEP/FP ENGINEERING
KJWW ENGINEERING CONSULTANTS
1100 WARRENVILLE RD. SUITE 400W
NAPERVILLE, IL 60563
P: 630.527.2320

CIVIL ENGINEERING
RUETTIGER, TONELLI & ASSOC., INC.
2174 ONEDA ST.
JOLIET, IL 60435
P: 815.744.6600

JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E5.01

KJ WW ENGINEERING CONSULTANTS
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1100 WARRENVILLE ROAD, SUITE 400W
NAPERVILLE, ILLINOIS 60563
630.527.2320 FAX: 630.527.2321
www.kjww.com
PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-006973

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REFERENCE SCALE IN INCHES
0 1 2 3

PANEL NAME: LH1A

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: SB-1
SCCR: 64,000
LOCATION: ELEC. 1108A

SOLID NEUTRAL
GROUND BUS

CONNECTED 6.1 kVA
MAIN: 125 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 6.11 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Lighting	20 A	1	0.64 0.65			1	20 A	Lighting, *C	2
3	Lighting, *B2, *C	20 A	1		2.5 0.8		1	20 A	Lighting, *B2, *C	4
5	Lighting, *B2, *C	20 A	1			0.56 0.97	1	20 A	Lighting, *B2, *C	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPACE	--	--			0 0	--	--	SPACE	18
19	SPACE	--	--	0 0			--	--	SPACE	20
21	SPACE	--	--		0 0		--	--	SPACE	22
23	SPACE	--	--			0 0	--	--	SPACE	24
25	SPACE	--	--	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
			Total Load:	1.29 kVA	3.3 kVA	1.52 kVA				
			Total Amps:	4.65	12.04	5.63				

[Key*:] *C = THRU CONTACTOR;

PANEL NAME: LH1B

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-H1
SCCR: 64,000
LOCATION: ELEC. 1114

SOLID NEUTRAL
GROUND BUS

CONNECTED 16.1 kVA
MAIN: 125 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 16.14 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Lighting	20 A	1	3.43 1.47			1	20 A	Lighting	2
3	Lighting, *C	20 A	1		1.32 2.22		1	15 A	EF-1, *B2	4
5	EF-2, *B2	15 A	1			2.22 0.9	3	15 A	Dryer Vent (BESB)	6
7	Dryer Vent	15 A	3	0.9 0.9			--	--	--	8
9	--	--	--		0.9 0.9		--	--	--	10
11	--	--	--			0.9 0	1	20 A	SPARE	12
13	Lighting	20 A	1	0.09 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
			Total Load:	6.79 kVA	5.33 kVA	4.02 kVA				
			Total Amps:	25.24	19.98	14.5				

[Key*:] *C=THRU CONTACTOR

PANEL NAME: LH2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: SB-1
SCCR: 64,000
LOCATION: STORAGE 2023

SOLID NEUTRAL
GROUND BUS

CONNECTED 8.8 kVA
MAIN: 125 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 8.78 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Lighting	20 A	1	3.27 0.99			1	20 A	Lighting, *C	2
3	Lighting	20 A	1		2.61 1.87		1	20 A	Lighting	4
5	Lighting	20 A	1			0.04 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPACE	--	--		0 0		--	--	SPACE	22
23	SPACE	--	--			0 0	--	--	SPACE	24
25	SPACE	--	--	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
			Total Load:	4.26 kVA	4.48 kVA	0.04 kVA				
			Total Amps:	17.73	18.5	0.15				

[Key*:] *C=THRU CONTACTOR.

PANEL NAME: PH1

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: SB-1
SCCR: 64,000
LOCATION: ELEC 1108A

SOLID NEUTRAL
GROUND BUS

CONNECTED 29.5 kVA
MAIN: 250 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 29.5 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	PANEL PL1A, *1L	125 A	3	7.94 1.07			3	50 A	WH-2	2
3	--	--	--		10.29 1.07		--	--	--	4
5	--	--	--			5.87 1.07	--	--	--	6
7	EF-3	15 A	1	2.2 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPACE	--	--		0 0		--	--	SPACE	22
23	SPACE	--	--			0 0	--	--	SPACE	24
25	SPACE	--	--	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
			Total Load:	11.21 kVA	11.36 kVA	6.94 kVA				
			Total Amps:	42.83	43.37	25.05				

[Key*:] *1L = SEE ONE LINE SHEETS FOR WIRE SIZE,

PANEL NAME: PL1A

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: PANEL 'PH1'
SCCR: 10,000
LOCATION: ELEC. 1108A

SOLID NEUTRAL
GROUND BUS

CONNECTED 24.1 kVA
MAIN: 250 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 24.1 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	SPD-B3L, *1L	30 A	3	0.1 1			1	20 A	Power, *C2	2
3	--	--	--		0 1.4		1	20 A	HAND DRYER	4
5	--	--	--			0 0.2	1	20 A	LC-EXT	6
7	PLUMBING SENSORS	20 A	1	0.6 1.2			1	20 A	Power, *C2	8
9	Power	20 A	1		0.6 1.2		1	20 A	Power, *B2	10
11	SPARE	20 A	1			0 1	1	20 A	Power, *B2	12
13	Power, *B2	20 A	1	0.6 1.4			1	20 A	HAND DRYER	14
15	COILING DOOR, *C2	20 A	1		1 1.4		1	20 A	HAND DRYER	16
17	Power	20 A	1			1.2 0.8	1	20 A	Power	18
19	Power	20 A	1	1.72 0.5			1	20 A	BATTING CAGE, *B2	20
21	BATTING CAGE, *B2	20 A	1		0.5 1.59		1	20 A	Divider Curtain, *B2	22
23	HAND DRYER	20 A	1			1.4 0.4	1	20 A	LC-MCORR	24
25	Power	20 A	1	0 0.32			1	20 A	P-3, *B2	26
27	Power, *B2	20 A	1		1.2 0		1	20 A	SPARE	28
29	Power, *B2	20 A	1			0.6 0	1	20 A	SPARE	30
31	CAB-9	20 A	1	0.5 0.2			1	20 A	Heat Trace, *G	32
33	HAND DRYER	20 A	1		1.4 0.6		1	20 A	Heat Trace, *G, *C2	34
35	SPARE	20 A	1			0 0.27	1	20 A	Lighting, *B2, *C	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
43	SPARE	20 A	1	0 0			1	20 A	SPARE	44
45	SPARE	20 A	1		0 0		1	20 A	SPARE	46
47	SPARE	20 A	1			0 0	1	20 A	SPARE	48
49	SPARE	20 A	1	0 0			1	20 A	SPARE	50
51	SPARE	20 A	1		0 0		1	20 A	SPARE	52
53	SPARE	20 A	1			0 0	1	20 A	SPARE	54
55	SPACE	--	--	0 0			--	--	SPACE	56
57	SPACE	--	--		0 0		--	--	SPACE	58
59	SPACE	--	--			0 0	--	--	SPACE	60
61	SPACE	--	--	0 0			--	--	SPACE	62
63	SPACE	--	--		0 0		--	--	SPACE	64
65	SPACE	--	--			0 0	--	--	SPACE	66
67	SPACE	--	--	0 0			--	--	SPACE	68
69	SPACE	--	--		0 0		--	--	SPACE	70
71	SPACE	--	--			0 0	--	--	SPACE	72
73	SPACE	--	--	0 0			--	--	SPACE	74
75	SPACE	--	--		0 0		--	--	SPACE	76
77	SPACE	--	--			0 0	--	--	SPACE	78
79	SPACE	--	--	0 0			--	--	SPACE	80
81	SPACE	--	--		0 0		--	--	SPACE	82
83	SPACE	--	--			0 0	--	--	SPACE	84
			Total Load:	8.14 kVA	10.89 kVA	5.87 kVA				
			Total Amps:	70.74	93.66	48.93				

[Key*:] *1L=SEE ONE LINE SHEETS FOR WIRE SIZE; *C=THRU CONTACTOR; *G=30mA GFI BREAKER

PANEL NAME: PL1B

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1
SCCR: 10,000
LOCATION: STORAGE 1014

SOLID NEUTRAL
GROUND BUS

CONNECTED 33.6 kVA
MAIN: 250 A/MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 33.6 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Power	20 A	1	1.6 0.4			1	20 A	OPERATOR WORK STATION	2
3	Power	20 A	1		1.2 1.2		1	20 A	Power, *B2	4
5	Power, *C2	20 A	1			1.2 2.16	1	20 A	Power	6
7	SPARE	20 A	1	0 1.2			1	20 A	Power, *C2	8
9	Power	20 A	1		0.4 0.4		1	20 A	SCORER'S TABLE	10
11	MOTORIZED BACKBOARD, *C2	20 A	1			0.5 0.5	1	20 A	Power	12
13	Receptacles	20 A	1	0.2 0.2			1	20 A	WS-1	14
15	SPARE	20 A	1		0.2 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	UH-1	20 A	1	1 1.13			1	20 A	EF-4	20
21	UH-3, *C2	20 A	1		1 0.75		1	20 A	Dryer Vent (EBC)	22
23	Power, *C2	20 A	1			1.2 2	1	20 A	Power, *C2	24
25	Divider Curtain, *C2	20 A	1	1.59 0.6			1	20 A	Power, *C2	26
27	DF-1,2,3,4,5	20 A	1		0.52 0.42		1	20 A	DF-6,7,8,9	28
29	Power	20 A	1			0.4 0.42	1	20 A	DF-15,16,17,18,*C2	30
31	Heat Trace, *G	20 A	1	0.2 0			1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	MOTORIZED SCOREBOARD, *C2	20 A	1			0.5 0.5	1	20 A	MOTORIZED BACKBOARD, *C2	36
37	MOTORIZED BACKBOARD, *C2	20 A	1	0.5 0.5			1	20 A	MOTORIZED BACKBOARD, *B2	38
39	MOTORIZED BACKBOARD, *B2	20 A	1		0.5 0.5		1	20 A	MOTORIZED BACKBOARD, *B2	40
41	MOTORIZED BACKBOARD, *B2	20 A	1			0.5 0.5	1	20 A	SCOREBOARD, *B2	42
43	MOTORIZED BACKBOARD, *B2	20 A	1	0.5 0.5			1	20 A	MOTORIZED BACKBOARD, *B2	44
45	MOTORIZED BACKBOARD	20 A	1		0.5 0.5		1	20 A	MOTORIZED BACKBOARD	46
47	SCOREBOARD	20 A	1			0.5 0.5	1	20 A	SCOREBOARD	48
49	SCOREBOARD, *B2	20 A	1	0.5 0			1	20 A	SPARE	50
51	MOTORIZED BACKBOARD, *C2	20 A	1		0.5 0.52		1	20 A	DF-10,11,12,13,14,*B2	52
53	Bleacher, *B4	20 A	3			0.6 0.3	3	20 A	Bleacher, *B4	54
55	--	--	--	0.6 0.3			--	--	--	56
57	--	--	--		0.6 0.3		--	--	--	58
59	SPARE	20 A	1			0 0	1	20 A	SPARE	60
61	SPARE	20 A	1	0 0			1	20 A	SPARE	62
63	SPARE	20 A	1		0 0		1	20 A	SPARE	64
65	SPARE	20 A	1			0 0	1	20 A	SPARE	66
67	SPARE	20 A	1	0 0			1	20 A	SPARE	68
69	SPARE	20 A	1		0 0		1	20 A	SPARE	70
71	SPARE	20 A	1			0 0	1	20 A	SPARE	72
73	SPACE	--	--	0 0			--	--	SPACE	74
75	SPACE	--	--		0 0		--	--	SPACE	76
77	SPACE	--	--			0 0	--	--	SPACE	78
79	SPACE	--	--	0 0			--	--	SPACE	80
81	SPACE	--	--		0 0		--	--	SPACE	82
83	SPACE	--	--			0 0	--	--	SPACE	84
			Total Load:	11.52 kVA	10.01 kVA	12.28 kVA				
			Total Amps:	97.94	83.38	104.24				

[Key*:] *G= 30mA GFI BREAKER

PANEL NAME: PL1C

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1
SCCR: 10,000
LOCATION: ELEC 1114

SOLID NEUTRAL
GROUND BUS

CONNECTED 28.4 kVA
MAIN: 100 A/MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 28.4 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Power	20 A	1	2 0.4			1	20 A	Power	2
3	Hand Dryer	20 A	1		1.4 0.5		1	20 A	CAB-3	4
5	Plumbing Sensor	20 A	1			0.3 1.4	1	20 A	Hand Dryer	6
7	CAB-4	20 A	1	0.5 1.9			2	30 A	Ice Maker, *B2	8
9	Ice Maker, *H	15 A	2		0.9 1.9		--	--	--	10
11	--	--	--			0.9 0.6	1	20 A	Power	12
13	LC-LVL1	20 A	1	0.2 1			1	20 A	Power	14
15	Power	20 A	1		1 0.5		1	20 A	Hydro Tub	16
17	Freezer, *G	20 A	1			1 1	1	20 A	Freezer, *G	18
19	Hydro Tub	20 A	1	0.5 0.6			1	20 A	Power	20
21	Power	20 A	1		1.2 0.95		2	20 A	Power	22
23	Power	20 A	1			0.4 0.95	--	--	--	24
25	Hand Dryer	20 A	1	1.4 1			1	20 A	Exercise Bike	26
27	Exercise Bike	20 A	1		1 0.2		1	20 A	Power	28
29	Power	20 A	1			2.2 0.2	1	20 A	Power	30
31	Power	20 A	1	0.4 0			1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0	1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
			Total Load:	9.9 kVA	9.55 kVA	8.95 kVA				
			Total Amps:	83.27	80.35	74.58				

[Key*:] *G= GFCI BREAKER, *H=HANDLE LOCK

BRANCH CIRCUIT WIRING KEY

WIRE ID	THHW / THWN COPPER CONDUCTORS			EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
	2 WIRE	3 WIRE	4 WIRE		
A#	2#12	3#12	4#12	1#12	3/4"
B#	2#10	3#10	4#10	1#10	3/4"
C#	2#8	3#8	4#8	1#10	3/4"
D#	2#6	3#6	4#6	1#10	1"
E#	2#4	3#4	4#4	1#8	1 1/4"
F#	2#2	3#2	4#2	1#8	1 1/4"
G#	2#1	3#1	4#1	1#6	1 1/2"
H#	2#1/0	3#1/0	4#1/0	1#6	2"

ALL BRANCH CIRCUITS SHALL INCLUDE THE EQUIPMENT GROUND CONDUCTOR.

ARCHITECT OF RECORD
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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E5.10

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
0 1 2 3

PANEL NAME: PL1D

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1
SCCR: 10,000
LOCATION: ELEC 1114

SOLID NEUTRAL
GROUND BUS

CONNECTED 29.7 kVA
MAIN: 100 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 29.73 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Power	20 A	1	1 0.8			1	20 A	Power	2
3	Power, Plumbing Sensor	20 A	1	0.9 1.4			1	20 A	Hand Dryer	4
5	Power, Plumbing Sensor	20 A	1		0 0.7	1.4	1	20 A	Hand Dryer	6
7	Hand Dryer	20 A	1	1.4 0.1			1	20 A	Power, Plumbing Sensor	8
9	Hand Dryer	20 A	1	1.4 0.5			1	20 A	CAB-5, *B2	10
11	Hand Dryer	20 A	1		1.4 0.1		1	20 A	Power, Plumbing Sensor, *B2	12
13	Hand Dryer	20 A	1	1.4 0.5			1	20 A	CAB-6, *B2	14
15	Power, *B2	20 A	1	0.8 1.5			1	20 A	Vending Machine, *G	16
17	Popcorn Machine, *B2	20 A	1		1 1		1	20 A	Pizza Warmer, *B2	18
19	CAB-7, *B2	20 A	1	0.5 0.5			1	20 A	CAB-8, *B2	20
21	SPARE	20 A	1	0 0.8			1	20 A	Power, *C2	22
23	Vending Machine, *G	20 A	1		1.5 1.5		1	20 A	Vending Machine, *G	24
25	Power, *B2	20 A	1	1 0.8			1	20 A	Power, *B2	26
27	Cooler, *B2	20 A	1	1 0.2			1	20 A	Power	28
29	Power	20 A	1		0.2 0.2		1	20 A	Power, *B2	30
31	Power, *C2	20 A	1	0.8 1.8			1	20 A	Power, *B2	32
33	Lighting	20 A	1	1.63 0			1	20 A	SPARE	34
35	SPARE	20 A	1		0 0		1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1	0 0			1	20 A	SPARE	40
41	SPACE	--	--		0 0		--	--	SPACE	42
	Total Load:			10.6 kVA	10.13 kVA	9 kVA				
	Total Amps:			89.78	85.86	75				

[Key*:] *G = GFCI BREAKER

PANEL NAME: PL2A

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1
SCCR: 10,000
LOCATION: STORAGE 2023

SOLID NEUTRAL
GROUND BUS

CONNECTED 35.1 kVA
MAIN: 225 A/MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 35.08 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Power, *B2	20 A	1	1.2 1.2			1	20 A	Power, *B2	2
3	Power, *B2	20 A	1		1.2 1.2		1	20 A	Power, *B2	4
5	Power	20 A	1			1.2 1.2	1	20 A	Power	6
7	Power	20 A	1	1.2 1.2			1	20 A	Power	8
9	Power	20 A	1		1.2 1.2		1	20 A	Power	10
11	Power	20 A	1			1.2 1.2	1	20 A	Power	12
13	Power	20 A	1	1.2 1.2			1	20 A	Power	14
15	Power	20 A	1		1.2 0.2		1	20 A	PLUMBING SENSOR	16
17	Power	20 A	1			1.2 0	1	20 A	SPARE	18
19	Power	20 A	1	0.8 0.6			1	20 A	Power	20
21	Power	20 A	1		0.4 1.4		1	20 A	HAND DRYER	22
23	HAND DRYER	20 A	1			1.4 1.4	1	20 A	HAND DRYER	24
25	HAND DRYER	20 A	1	1.4 1.4			1	20 A	HAND DRYER	26
27	Power	20 A	1		0.4 1.9		1	20 A	Copier	28
29	HAND DRYER	20 A	1			1.4 0.27	1	20 A	Lighting, *C	30
31	SPARE	20 A	1	0 0.2			1	20 A	LC-LVL2	32
33	SPARE	20 A	1		0 1.35		2	30 A	CU-3, *B2	34
35	SPARE	20 A	1			0 1.35	--	--		36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
	Total Load:			11.6 kVA	11.65 kVA	11.82 kVA				
	Total Amps:			96.67	97.17	98.6				

[Key*:] *C=THRU CONTACTOR

PANEL NAME: EQL

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: PANEL 'EQH'
SCCR: 10,000
LOCATION: STORAGE 1014

SOLID NEUTRAL
GROUND BUS

CONNECTED 33 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 33.01 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
EQL-1	SPD-B3L, *1L	30 A	3	0.1 0.5			1	30 A	SERVER, *C2	EQL-2
EQL-3	--	--	--		0 1.59		1	20 A	SP-1 Control Panel, *C2	EQL-4
EQL-5	--	--	--			0 1.2	1	20 A	Door Operator	EQL-6
EQL-7	AV Rack, *C2	20 A	1	0.5 0.8			1	20 A	Door Operator	EQL-8
EQL-9	ELEV SHUNT TRIP, *B2	20 A	1		0.2 0.4		1	20 A	Door Operator, *B2	EQL-10
EQL-11	SP-1, *C2	20 A	1			1.59 0.4	1	20 A	Door Operator, *B2	EQL-12
EQL-13	Door Operator	20 A	1	1.2 0.3			1	20 A	Boiler Shut Off, C-BLR	EQL-14
EQL-15	Door Operator	20 A	1		0.8 0.8		1	20 A	Door Operator	EQL-16
EQL-17	Door Operator, *C2	20 A	1			0.8 0.4	1	20 A	Door Operator	EQL-18
EQL-19	Door Operator, *C2	20 A	1	0.8 0.2			1	20 A	ELEV CAB, *H, *B2	EQL-20
EQL-21	Door Operator, *C2	20 A	1		0.8 2.4		1	25 A	BLR-1, *B2, *C	EQL-22
EQL-23	Door Operator,	20 A	1			0.8 2.4	1	25 A	BLR-2, *B2, *C	EQL-24
EQL-25	AV Rack	20 A	1	1 2.4			1	25 A	BLR-3, *B2, *C	EQL-26
EQL-27	AV Rack, *C2	20 A	1		0.5 1.4		1	20 A	Sec Access Cont Pnl	EQL-28
EQL-29	AV Rack, *C2	20 A	1			0.5 1.4	1	20 A	Sec Access Cont Pnl	EQL-30
EQL-31	AV Rack, *C2	20 A	1	0.5 0			1	20 A	Sec Access Cont Pnl, *C2	EQL-32
EQL-33	AV Rack, *C2	20 A	1		0.5 0		1	20 A	Sec Access Cont Pnl, *C2	EQL-34
EQL-35	AV Rack, *C2	20 A	1			0.5 0	1	20 A	Sec Access Cont Pnl, *C2	EQL-36
EQL-37	AV Rack, *C2	20 A	1	0.5 0			1	20 A	Sec Access Cont Pnl, *C2	EQL-38
EQL-39	AV Rack, *C2	20 A	1		0.5 0.5		1	20 A	AV Rack, *C2	EQL-40
EQL-41	AV Rack, *C2	20 A	1			0.5 0.5	1	20 A	AV Rack, *C2	EQL-42
EQL-43	CP-2	20 A	1	1.13 0.15			2	15 A	CU-2, *C2	EQL-44
EQL-45	CU-1, *C2	30 A	2		0.4 0.15		--	--		EQL-46
EQL-47	--	--	--			0.4 0.4	2	30 A	CU-4, *C2	EQL-48
EQL-49	SPARE	20 A	1	0 0.4			--	--		EQL-50
EQL-51	SPARE	20 A	1		0 0		1	20 A	SPARE	EQL-52
EQL-53	SPARE	20 A	1			0 0	1	20 A	SPARE	EQL-54
EQL-55	SPARE	20 A	1	0 0			1	20 A	SPARE	EQL-56
EQL-57	SPARE	20 A	1		0 0		1	20 A	SPARE	EQL-58
EQL-59	SPARE	20 A	1			0 0	1	20 A	SPARE	EQL-60
EQL-61	SPARE	20 A	1	0 0			1	20 A	SPARE	EQL-62
EQL-63	SPARE	20 A	1		0 0		1	20 A	SPARE	EQL-64
EQL-65	SPARE	20 A	1			0 0	1	20 A	SPARE	EQL-66
EQL-67	SPACE	--	--	0 0			--	--	SPACE	EQL-68
EQL-69	SPACE	--	--		0 0		--	--	SPACE	EQL-70
EQL-71	SPACE	--	--			0 0	--	--	SPACE	EQL-72
EQL-73	SPACE	--	--	0 0			--	--	SPACE	EQL-74
EQL-75	SPACE	--	--		0 0		--	--	SPACE	EQL-76
EQL-77	SPACE	--	--			0 0	--	--	SPACE	EQL-78
EQL-79	SPACE	--	--	0 0			--	--	SPACE	EQL-80
EQL-81	SPACE	--	--		0 0		--	--	SPACE	EQL-82
EQL-83	SPACE	--	--			0 0	--	--	SPACE	EQL-84
	Total Load:			10.48 kVA	10.94 kVA	11.79 kVA				
	Total Amps:			87.33	91.76	98.84				

[Key*:] *H=HANDLE LOCK; *1L=SEE ONE LINE SHEETS FOR WIRE SIZE; *C=THRU CONTACTOR,

PANEL NAME: LSH

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: ATS-LS
SCCR: 64,000
LOCATION: EMER. ELEC. 1108B

SOLID NEUTRAL
GROUND BUS

CONNECTED 4.4 kVA
MAIN: 125 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 4.4 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	SPD-B3H, *1L	30 A	3	0.1 0.62			1	20 A	Lighting	2
3	--	--	--		0 1.11		1	20 A	Lighting	4
5	--	--	--			0 0.07	1	20 A	Lighting, *B2	6
7	Lighting, *B2	20 A	1	1.02 0.09			1	20 A	Lighting	8
9	PANEL LSL VIA TR-30 , *1L,	80 A	3		0.3 0.49		1	20 A	Lighting, *B2	10
11	--	--	--			0.2 0.45	1	20 A	Lighting, *C, *B2	12
13	--	--	--	0 0.07			1	20 A	Lighting	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 0			1	20 A	SPARE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
	Total Load:			1.89 kVA	1.9 kVA	0.71 kVA				
	Total Amps:			7.5	7.52	2.56				

[Key*:] *1L= SEE ONE LINE SHEETS FOR WIRE SIZE; *C=THRU CONTACTOR

PANEL NAME: LSL

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: PANEL 'LSH'
SCCR: 10,000
LOCATION: EMER. ELEC. 1108B

SOLID NEUTRAL
GROUND BUS

CONNECTED 0.5 kVA
MAIN: 100 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 0.5 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	SPD-B3L, *1L	30 A	3	0.1			1	20 A	Panel, *1L	2
3	--	--	--		0 0.2		1	20 A	LC-EXT-EM	4
5	--	--	--			0 0.2	1	20 A	LC-EXT-EM	6
7	Electronic Bell, *H	20 A	1	0.2 0			1	20 A	SPARE	8
9	FAA-1, *H	20 A	1		0.2 0		1	20 A	SPARE	10
11	FAA-1, *H	20 A	1			0.2 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			--	--	SPACE	20
21	SPARE	20 A	1		0 0		--	--	SPACE	22
23	SPARE	20 A	1			0 0	--	--	SPACE	24
25	SPACE	--	--	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
	Total Load:			0.3 kVA	0.4 kVA	0.4 kVA				
	Total Amps:			2.5	3.46	3.46				

[Key*:] *H = RED HANDLE LOCK; *1L=SEE ONE LINE SHEETS FOR WIRE SIZE

PANEL NAME: UPC

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: SB-1 VIA UPC-30
SCCR: 10,000
LOCATION: A/V EQUIP 1102B

SOLID NEUTRAL
GROUND BUS

CONNECTED 7.9 kVA
MAIN: 100 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 7.9 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	SPD-B3L, *1L	30 A	3	0 1			1	20 A	EQP-RACK	2
3	--	--	--		0 0.5		1	20 A	Power	4
5	--	--	--			0 0.5	1	20 A	Power	6
7	Power	20 A	1	1.5 0.5			1	20 A	Power	8
9	Power	20 A	1		0.5 0.5		1	20 A	Power	10
11	Power	20 A	1			0.5 0.5	1	20 A	Power	12
13	Power	20 A	1	0.5 1			1	20 A	GYM EQUIPMENT CONTROL PAD	14
15	Power	20 A	1		0.9 0.5		1	20 A	GYM EQUIPMENT RELAY PANEL	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		--	--	SPACE	22
23	SPARE	20 A	1			0 0	--	--	SPACE	24
25	SPARE	20 A	1	0 0			--	--	SPACE	26
27	SPARE	20 A	1		0 0		--	--	SPACE	28
29	SPARE	20 A	1			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
	Total Load:			4.5 kVA	2.9 kVA	1.5 kVA				
	Total Amps:			39.29	25.96	12.5				

[Key*:] *1L=SEE ONE LINE SHEETS FOR WIRE SIZE

PANEL NAME: EQH

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: ATS-EQ
SCCR: 64,000
LOCATION: EMER. ELEC. 1108B

SOLID NEUTRAL
GROUND BUS

CONNECTED 38.3 kVA
MAIN: 125 A/MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 38.26 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Lighting	20 A	1	0.42 1.71			1	20 A	Lighting, *B2	2
3	Lighting, *B2	20 A	1		0.43 10.48		3	125 A	PANEL EQL VIA TR-45, *1L	4
5	CP-1, *C3	15 A	3			0.9 10.74	--	--	--	6
7	--	--	--	0.9 11....			--	--	--	8
9	--	--	--		0.9					10
11										12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPACE	--	--			0 0	--	--	SPACE	24
25	SPACE	--	--	0 0			--	--	SPACE	26
27	SPACE	--	--		0 0		--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0 0			--	--	SPACE	32
33	SPACE	--	--		0 0		--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0 0			--	--	SPACE	38
39	SPACE	--	--		0 0		--	--	SPACE	40
41	SPACE	--	--			0 0	--	--	SPACE	42
	Total Load:			14.81 kVA	11.81 kVA	11.64 kVA				
	Total Amps:			53.57	42.73	42.02				

[Key*:] *1L= SEE ONE LINE SHEETS FOR WIRE SIZE

PANEL NAME: PL2B

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1
SCCR: 10,000
LOCATION: STORAGE 2023

SOLID NEUTRAL
GROUND BUS

CONNECTED 30 kVA
MAIN: 100 A/MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 30.02 kVA

Panel...

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A	B	C	POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Power	20 A	1	0.8 1.4			1	20 A	Power, *B2	2
3	Power	20 A	1		1.4 0.8		1	20 A	Power	4
5	Power, *B2	20 A	1			1.2 1.2	1	20 A	Power, *B2	6
7	Power, *B2	20 A	1	1.2 0.8			1	20 A	Power, *B2	8
9	Power, *B2	20 A	1		1.2 1.5		1	20 A	Microwave, *B2	10
11	Coffee Maker, *B2	20 A	1			1.4 0.8	1	20 A	REFRIG, *B2, *G	12
13	Power, *B2	20 A	1	1 0			1	20 A	Power, *B2	14
15	Power	20 A	1		0.3 1.2		1	20 A	Power, *B2	16
17	Power	20 A	1			1.2 1.9	1	20 A	Copier, *B2	18
19	Power	20 A	1	1.6 0.4			1	20 A	Power	20
21	Power, *B2	20 A	1		0.3 0.2		1	20 A	Power, *B2	22
23	Motorized Screen	20 A	1			0.5 0.5	1	20 A	Motorized Screen	24
25	Motorized Screen, *B2	20 A	1	0.5 1.9			1	20 A	Copier, *B2	26
27	Power	20 A	1		0.32 0.3		1	20 A	Power	28
29	Power	20 A	1			1.4 0.4	1	20 A	Power	30
31	Power	20 A	1	0.4 0.4			1	20 A	Power	32
33	Power	20 A	1		0.4 0.4		1	20 A	Power	34
35	Power	20 A	1			0.4 0.4	1	20 A	Power	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
	Total Load:			10.4 kVA	8.32 kVA	11.3 kVA				
	Total Amps:			89.33	69.33	96.83				

[Key*:] *G = GFCI BREAKER

BRANCH CIRCUIT WIRING KEY

WIRE ID	THHW / THWN COPPER CONDUCTORS			EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
	2 WIRE	3 WIRE	4 WIRE		
A#	2#12	3#12	4#12	1#12	3/4"
B#	2#10	3#10	4#10	1#10	3/4"
C#	2#8	3#8	4#8	1#10	3/4"
D#	2#6	3#6	4#6	1#10	1"
E#	2#4	3#4	4#4	1#8	1 1/4"
F#	2#2	3#2	4#2	1#8	1 1/4"
G#	2#1	3#1	4#1	1#6	1 1/2"
H#	2#1/0	3#1/0	4#1/0	1#6	2"

ALL BRANCH CIRCUITS SHALL INCLUDE THE EQUIPMENT GROUND CONDUCTOR.

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E5.11

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www.kjww.com
PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
0 1 2 3

RELAY PANEL NAME: FH-RLY-H

TYPE: Type 1
MOUNTING: SURFACE
FED FROM: DP-H1-7
SCCR: 65,000
LOCATION: STORAGE 1014

SOLID NEUTRAL
GROUND BUS

CONNECTED 12.2 kVA
MAIN: 200 A/
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 12.21 kVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A		B		C		POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Compete Zone 1	20 A	1	1.11	0.56					1	20 A	Compete Zone 2	2
3	Compete Zone 3	20 A	1			1.11	1.11			1	20 A	Compete Zone 4	4
5	Compete Zone 5	20 A	1					0.56	0.37	1	20 A	Compete Zone 6	6
7	Compete Zone 7	20 A	1	0.74	0.74					1	20 A	Field House Zone 8	8
9	Field House Zone 9	20 A	1			1.48	0.56			1	20 A	Field House Zone 10	10
11	Field House Zone 11, * B2	20 A	1					1.11	1.11	1	20 A	Field House Zone 12, *B2	12
13	Field House Zone 13	20 A	1	0.56	1.11					1	20 A	Field House Zone 14, * B2	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
			Total Load:	4.81 kVA		4.26 kVA		3.15 kVA					
			Total Amps:	17.98		15.98		11.35					

[Key*:]

RELAY PANEL NAME: FH-RLY-L

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-L1-11
SCCR: 10,000
LOCATION: STORAGE 1014

SOLID NEUTRAL
GROUND BUS

CONNECTED 2.5 kVA
MAIN: 100 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 2.5 kVA

Panel Notes:

CKT NO.	LOAD DESCRIPTION	AMP	POLES	A		B		C		POLES	AMP	LOAD DESCRIPTION	CKT NO.
1	Stage Lt.	20 A	1	0.5	0.5					1	20 A	Stage Lt.	2
3	Stage Lt.	20 A	1			0.5	0.5			1	20 A	Stage Lt.	4
5	Stage Lt.	20 A	1					0.5	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPACE	--	--					0	0	--	--	SPACE	12
			Total Load:	1 kVA		1 kVA		0.5 kVA					
			Total Amps:	8.97		8.97		4.17					

[Key*:]

BRANCH CIRCUIT WIRING KEY

WIRE ID	THHW / THWN COPPER CONDUCTORS			EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
	2 WIRE	3 WIRE	4 WIRE		
A#	2#12	3#12	4#12	1#12	3/4"
B#	2#10	3#10	4#10	1#10	3/4"
C#	2#8	3#8	4#8	1#10	3/4"
D#	2#6	3#6	4#6	1#10	1"
E#	2#4	3#4	4#4	1#8	1 1/4"
F#	2#2	3#2	4#2	1#8	1 1/4"
G#	2#1	3#1	4#1	1#6	1 1/2"
H#	2#1/0	3#1/0	4#1/0	1#6	2"

ALL BRANCH CIRCUITS SHALL INCLUDE THE EQUIPMENT GROUND CONDUCTOR.

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MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

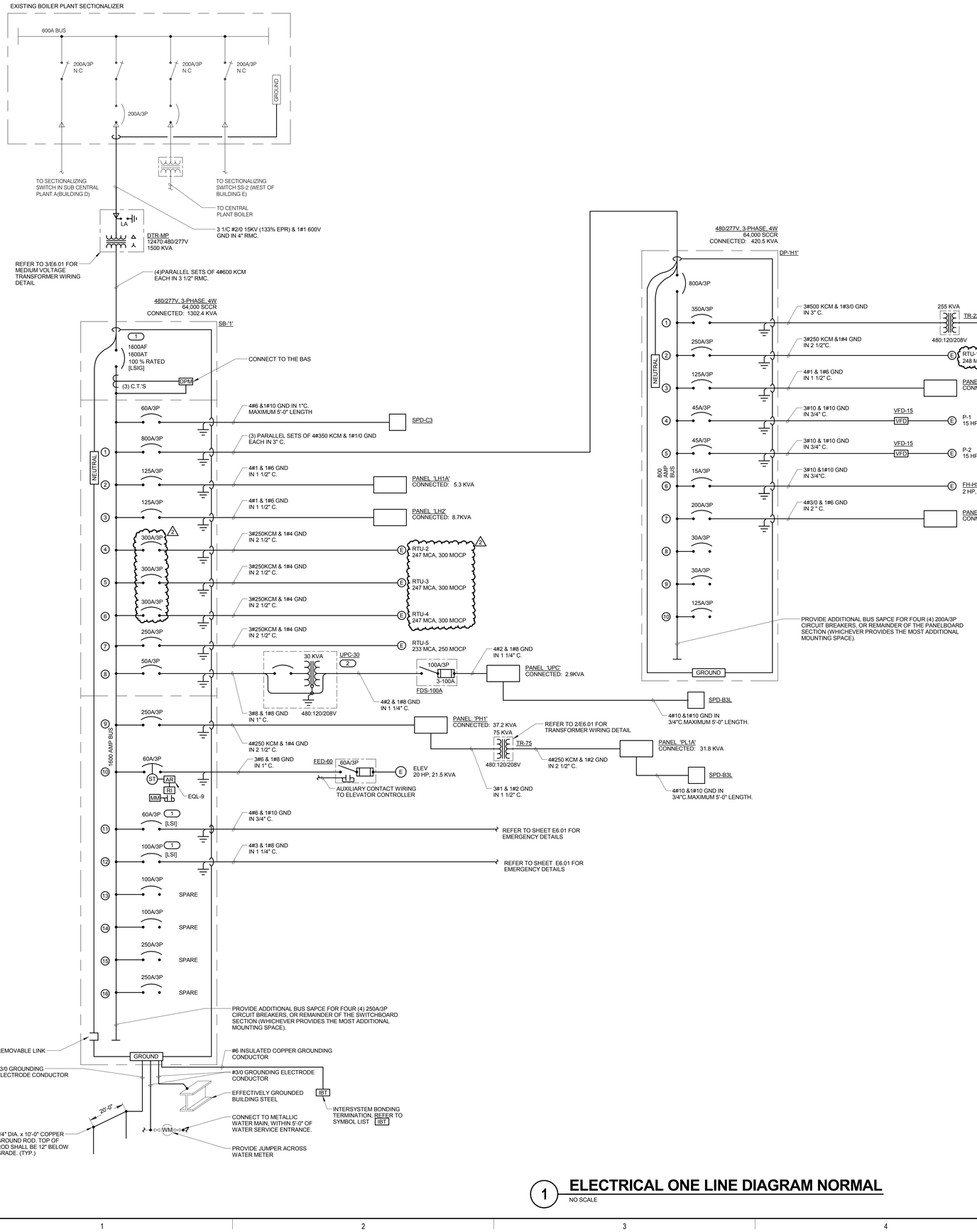
KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E5.12



ONE LINE DIAGRAM NOTES:

1. AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
2. INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS.
3. INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
4. INDICATES OVERLOADS SIZED PER MOTOR NAMEPLATE FULL LOAD AMPERES.
5. INDICATES STARTER NEMA SIZE.
6. AF INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.
7. AT INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.
8. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT].
9. [GFI] INDICATES CIRCUIT BREAKER WITH 30mA GROUND FAULT INTERRUPTER.
10. CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
11. DPM INDICATES DIGITAL POWER MONITOR.
12. INDICATES DRAWOUT DEVICE.
13. ST INDICATES SHUNT TRIP BREAKER.
14. INDICATES MEDIUM VOLTAGE TERMINATION.

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.10 AND E5.11 FOR PANEL SCHEDULES.

KEYNOTES: (#)

1. THIS BRANCH REQUIRES SELECTIVE COORDINATION OF ALL SUPPLY SIDE OVER CURRENT DEVICES WITH BRANCH DEVICES. REFER TO SPECIFICATION SECTION 26 05 73 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO 2/E6.01 FOR TRANSFORMER WIRING DETAIL.

1 ELECTRICAL ONE LINE DIAGRAM NORMAL

NO SCALE

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2	ADDENDUM 2	08/06/15

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM NORMAL

SHEET NUMBER:
E6.00

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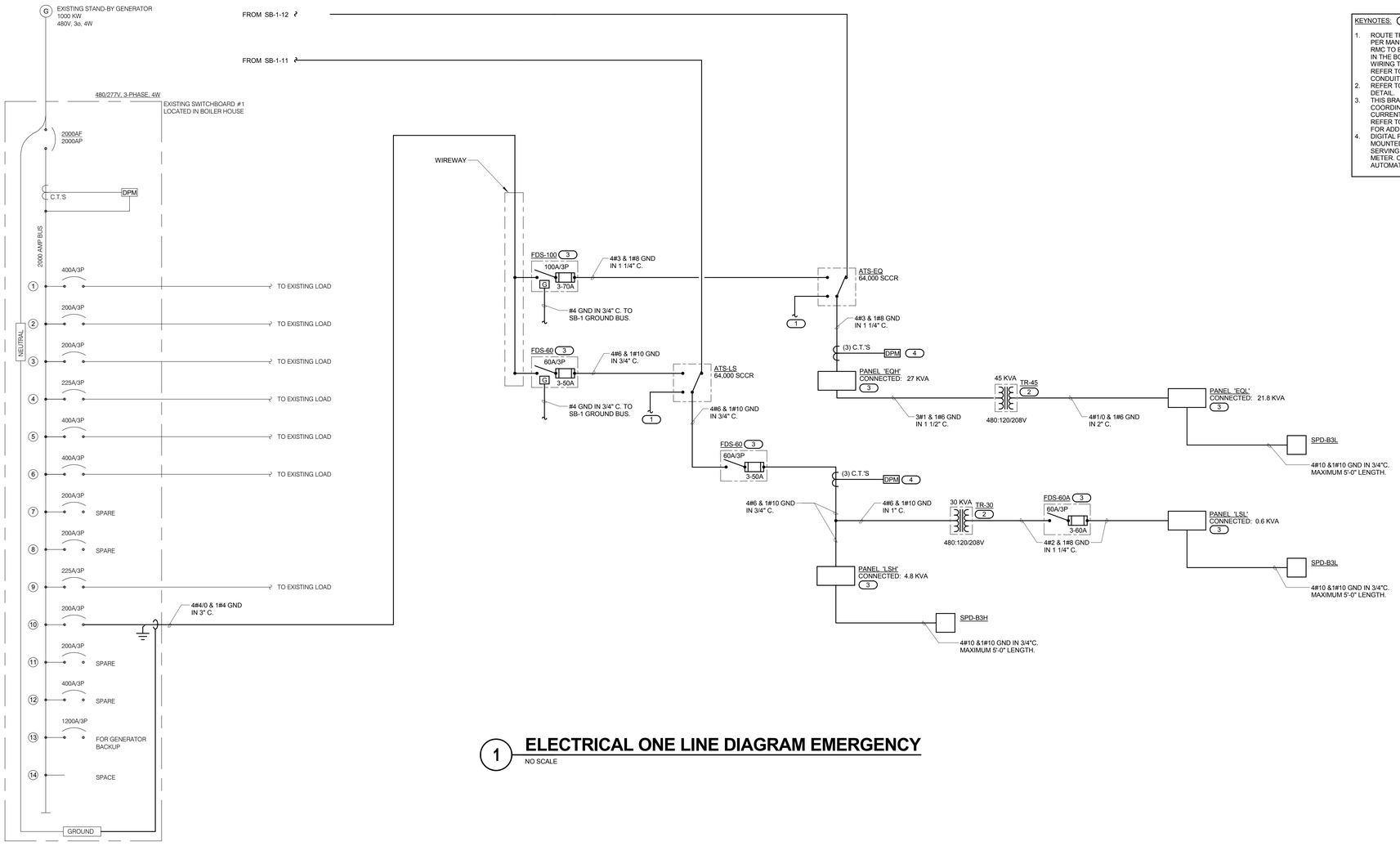
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES :

1. REFER TO SHEET E0.00 FOR ELECTRICAL SYMBOL LIST.
2. REFER TO SHEET E5.10 AND E5.11 FOR PANEL SCHEDULES.
3. REFER TO E6.00 FOR ELECTRICAL ONE LINE DIAGRAM NOTES.

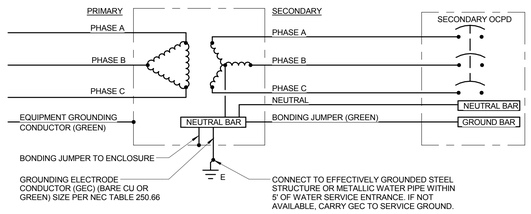
KEYNOTES: (#)

1. ROUTE TRANSFER SWITCH CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS IN 3" RMC TO EXISTING TRANSFER SWITCH LOCATED IN THE BOILER HOUSE. TIE NEW CONTROL WIRING TO EXISTING TRANSFER SWITCHES. REFER TO SHEET E0.01 FOR ADDITIONAL CONDUIT ROUTING INFORMATION.
2. REFER TO 2/E6.01 FOR TRANSFORMER WIRING DETAIL.
3. THIS BRANCH REQUIRES SELECTIVE COORDINATION OF ALL SUPPLY SIDE OVER CURRENT DEVICES WITH BRANCH DEVICES. REFER TO SPECIFICATION SECTION 26 05 73 FOR ADDITIONAL REQUIREMENTS.
4. DIGITAL POWER METER AND DISPLAY SHALL BE MOUNTED NEXT TO THE TRANSFER SWITCH IT'S SERVING. PROVIDE ENCLOSURE FOR THE METER. CONNECT METER TO THE BUILDING AUTOMATION SYSTEM.



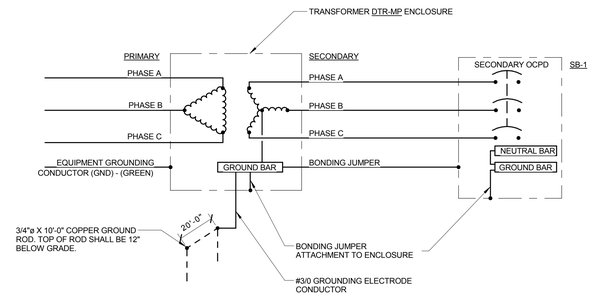
1 ELECTRICAL ONE LINE DIAGRAM EMERGENCY

NO SCALE



2 TRANSFORMER WIRING DETAIL

NO SCALE



3 MEDIUM VOLTAGE TRANSFORMER WIRING DETAIL

NO SCALE

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM - EMERGENCY

SHEET NUMBER:
E6.01

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0 1 2 3

FIRE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 AND 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS.

1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER	

FIRE PROTECTION GENERAL NOTES

1. DRAWINGS SHOWING LOCATIONS OF PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
4. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
7. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, AND FLOORS. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
8. WHERE PIPES ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH SECTION 23 05 29. SEAL SLEEVE PERIMETER TO BE WATER-TIGHT.
9. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
10. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTER, SWITCHES, AND DISCONNECTS.
11. WITHIN MECHANICAL ROOMS MAINTAIN MAXIMUM VERTICAL CLEARANCES IN AISLES AND WALKWAYS TO OVERHEAD EQUIPMENT, PIPING, DUCTWORK, HANGERS, HANGER RODS, AND CONDUIT. COORDINATE WORK WITH OTHER TRADES TO MAXIMIZE VERTICAL CLEARANCES THROUGHOUT.
12. DO NOT SUPPORT PIPING FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
13. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. CONTRACTOR SHALL DETERMINE EXACT NUMBER OF HEADS, PIPE SIZING, AND PIPE ROUTING.
14. CENTER SPRINKLER HEADS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE.
15. REFER TO SHEET FP4.00 FOR FIRE PROTECTION MATERIAL LIST AND SPRINKLER SCHEDULE.
16. NEW SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE HEADS WITH QUICK RESPONSE HEADS IN UNPARTITIONED SPACES.

FIRE PROTECTION SYMBOLS LIST

SYMBOL:	DESCRIPTION:
	NEW
FP	FIRE PROTECTION
W	SERVICE WATER - POTABLE
	PIPE DOWN
	PIPE UP OR UP/DOWN
	SHUTOFF VALVE NORMALLY OPEN
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	INSPECTOR TEST AND DRAIN VALVE
	MONITOR SWITCH
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1

FIRE PROTECTION SHEET INDEX

FP0.00	FIRE PROTECTION COVER SHEET
FP1.10	LEVEL 1 PLAN - FIRE PROTECTION
FP1.20	LEVEL 2 PLAN - FIRE PROTECTION
FP2.00	ALTERNATE PLANS - FIRE PROTECTION
FP3.00	FIRE PROTECTION RISER DIAGRAM & DETAILS
FP4.00	FIRE PROTECTION MATERIAL LIST

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KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

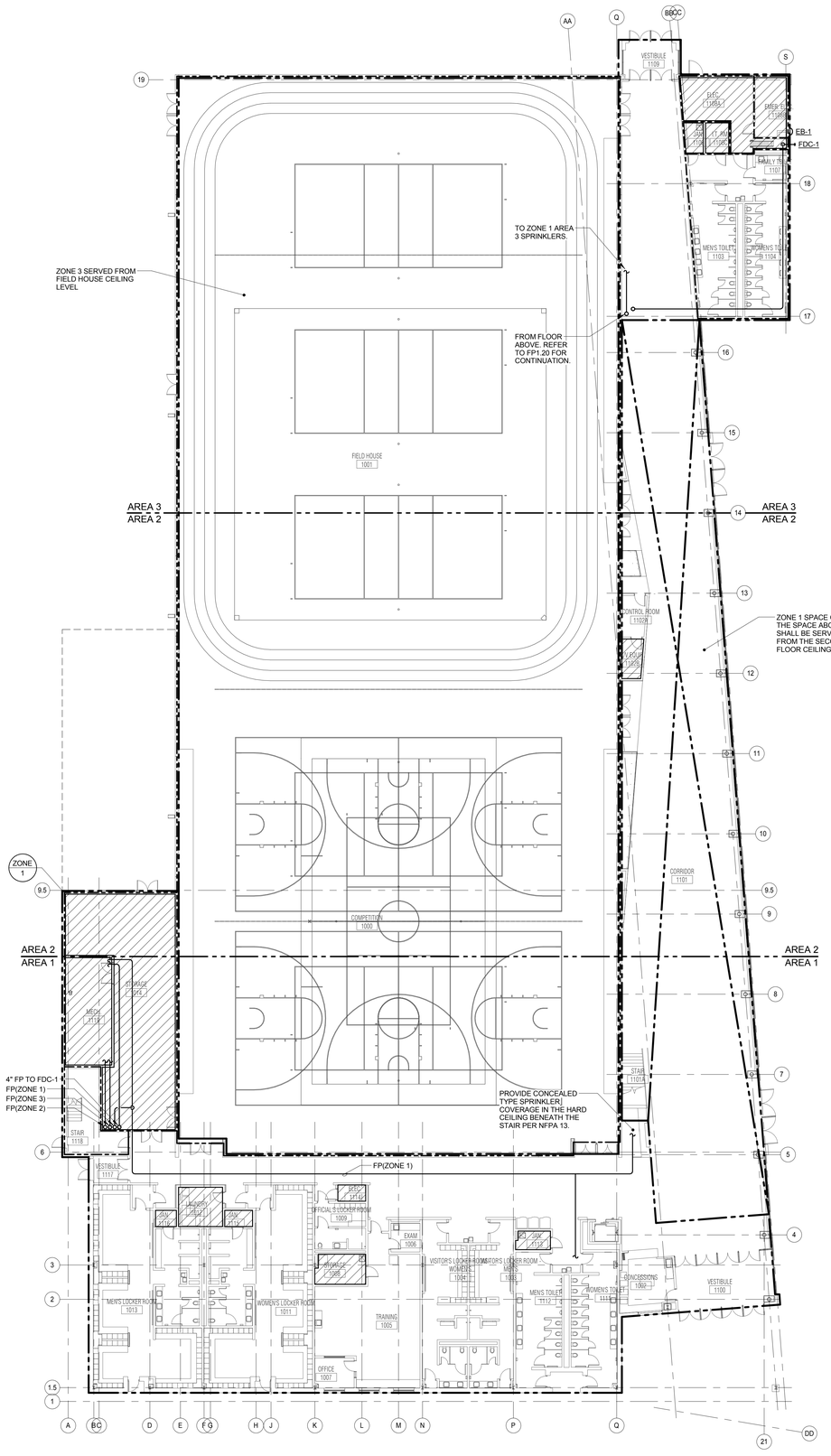
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FIRE PROTECTION COVER SHEET

SHEET NUMBER:
FP0.00

GENERAL SHEET NOTES :

1. PROVIDE SPRINKLER COVERAGE IN ALL SPACES PER NFPA 13.



1 LEVEL 1 PLAN - FIRE PROTECTION

1/16" = 1'-0"

NORTH

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN - FIRE PROTECTION

SHEET NUMBER:
FP1.10

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REFERENCE SCALE IN INCHES

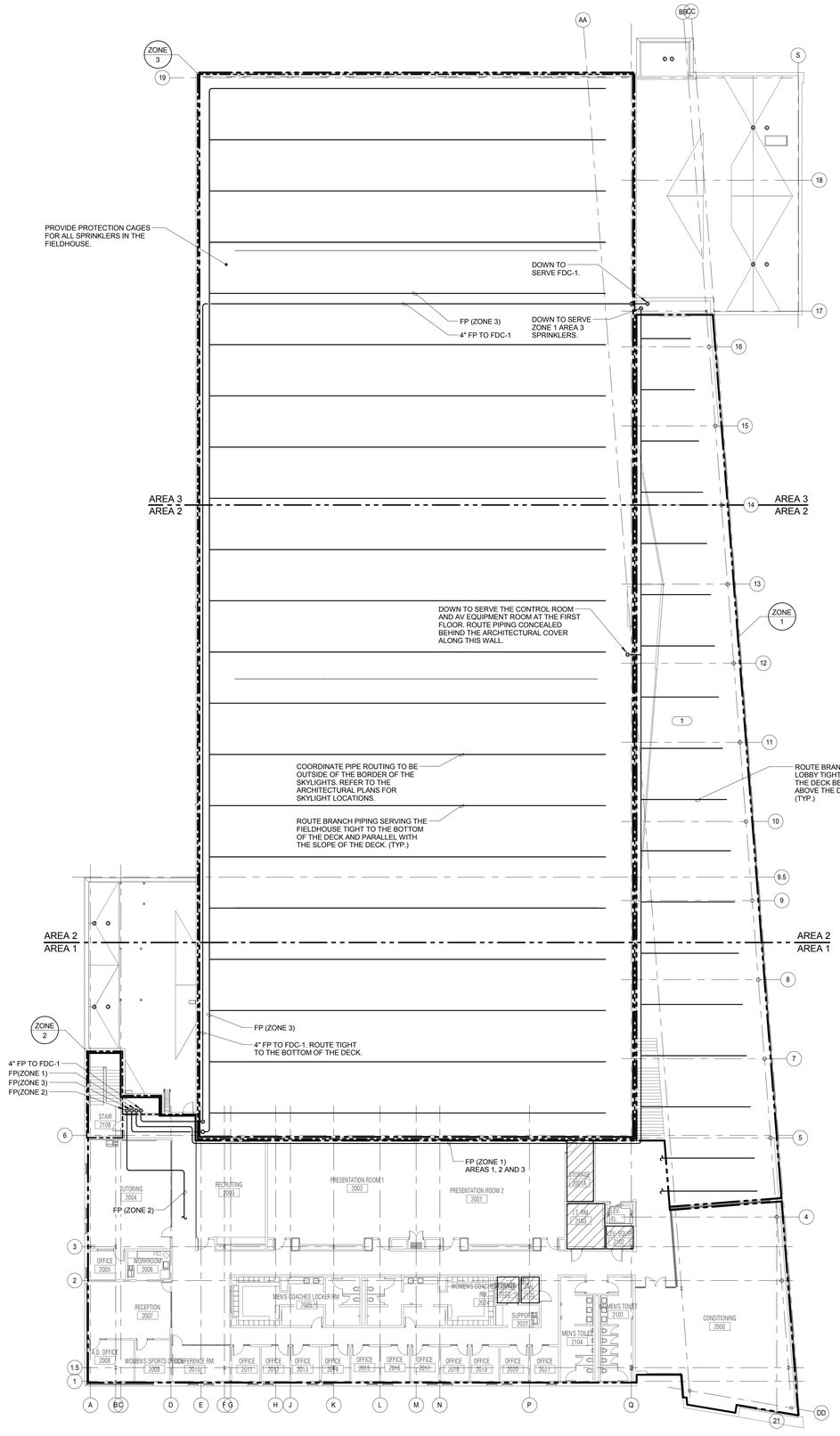
0 1 2 3

GENERAL SHEET NOTES :

1. PROVIDE SPRINKLER COVERAGE IN ALL SPACES PER NFPA 13.

KEYNOTES: (#)

1. CONTRACTOR SHALL ARRANGE LOBBY SPRINKLERS ACCORDING TO NFPA 13 TO ACCOMODATE THE DUCT ENCLOSURE OBSTRUCTION.



NORTH

1 LEVEL 2 PLAN - FIRE PROTECTION

1/16" = 1'-0"

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SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN - FIRE PROTECTION

SHEET NUMBER:
FP1.20

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-006973

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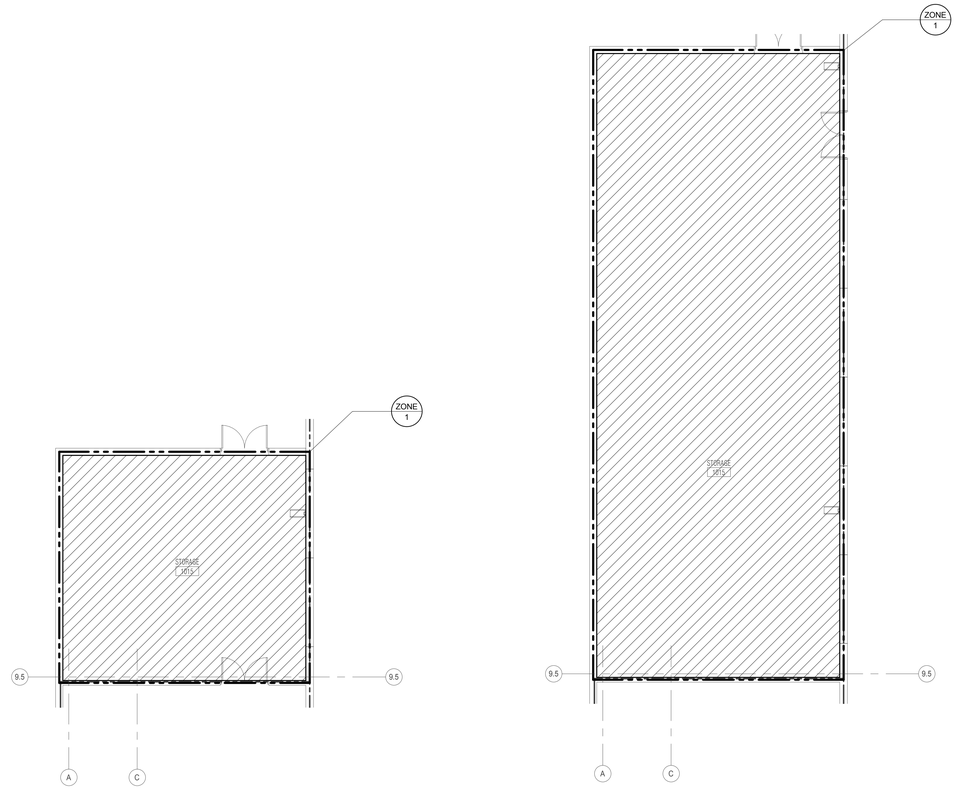
REFERENCE SCALE IN INCHES
0 1 2 3



LEVEL 1 PLAN - FIRE PROTECTION - ALT 1

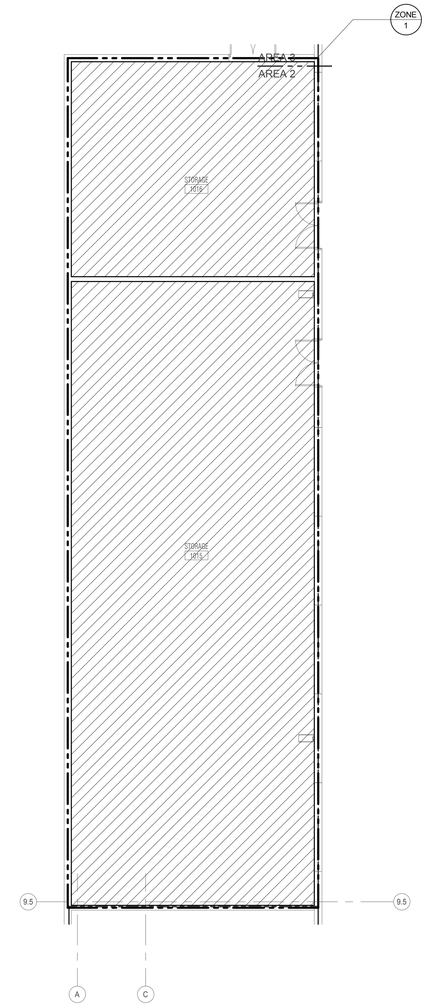
1/8" = 1'-0"

NOTES:
1. STORAGE 1015 SHALL BE ADDED TO FIRE PROTECTION ZONE 1 UNDER ALTERNATE BID #1.

LEVEL 1 PLAN - FIRE PROTECTION - ALT 2

1/8" = 1'-0"

NOTES:
1. STORAGE 1015 SHALL BE ADDED TO FIRE PROTECTION ZONE 1 UNDER ALTERNATE BID #2.



LEVEL 1 PLAN - FIRE PROTECTION - ALT 3

1/8" = 1'-0"

NOTES:
1. STORAGE 1015 AND STORAGE 1016 SHALL BE ADDED TO FIRE PROTECTION ZONE 1 UNDER ALTERNATE BID #3.

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JOLIET JUNIOR COLLEGE MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ALTERNATE PLANS - FIRE PROTECTION

SHEET NUMBER:
FP2.00

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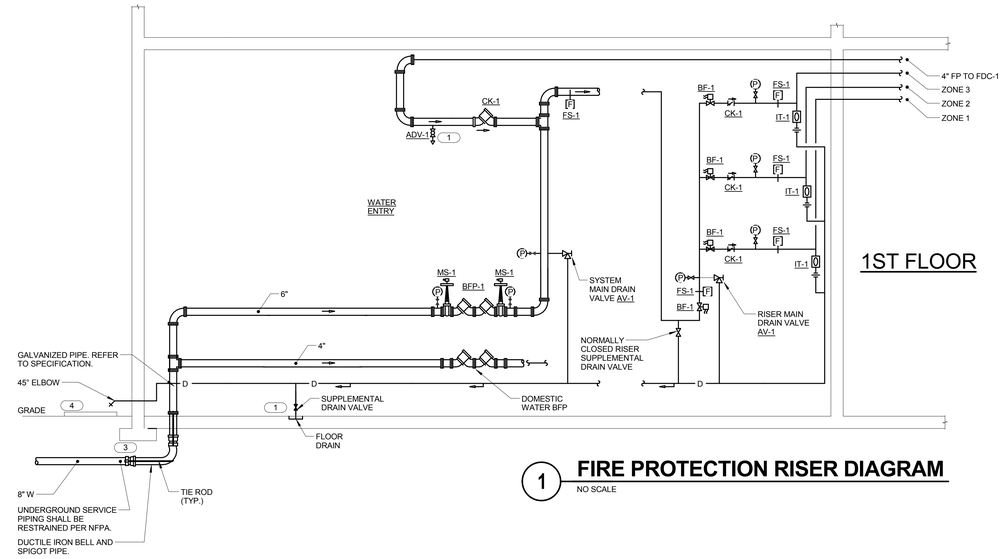
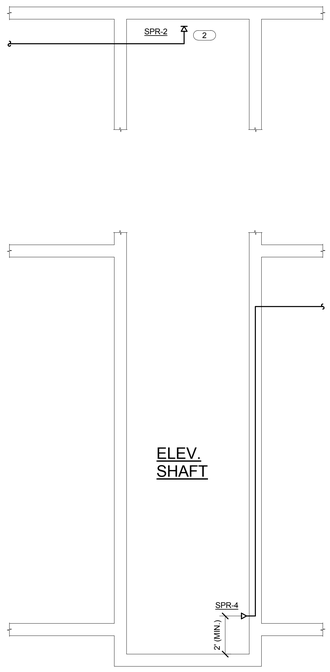
REFERENCE SCALE IN INCHES
0 1 2 3

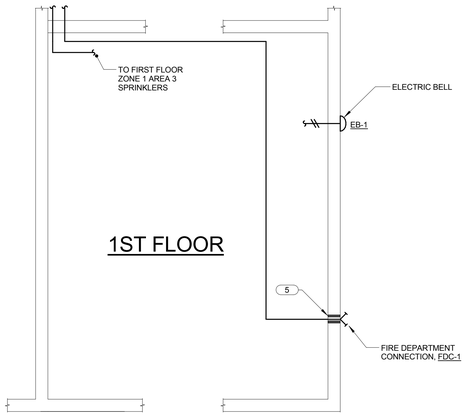
KEYNOTES
1. DISCHARGE DOWN OVER NEAREST FLOOR DRAIN.
2. SPRINKLER(S) AT TOP OF ELEVATOR SHAFT.
3. REFER TO 1/P4.0 FOR UNDERGROUND WATER MAIN ANCHORING DETAIL.
4. PROVIDE CONCRETE SPLASHBLOCK AT GRADE.
5. SEAL WALL PENETRATION WATERTIGHT.(TYPICAL)

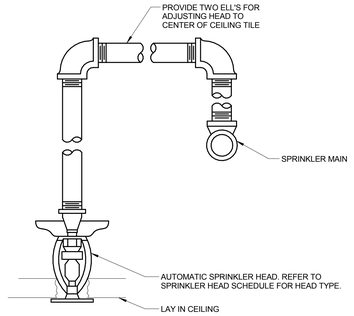


1 FIRE PROTECTION RISER DIAGRAM

NO SCALE

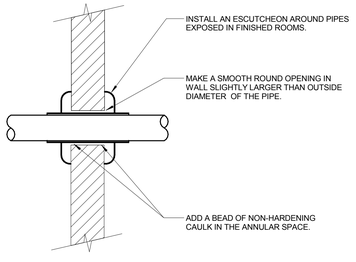






2 SPRINKLER HEAD MOUNTING DETAIL

NO SCALE

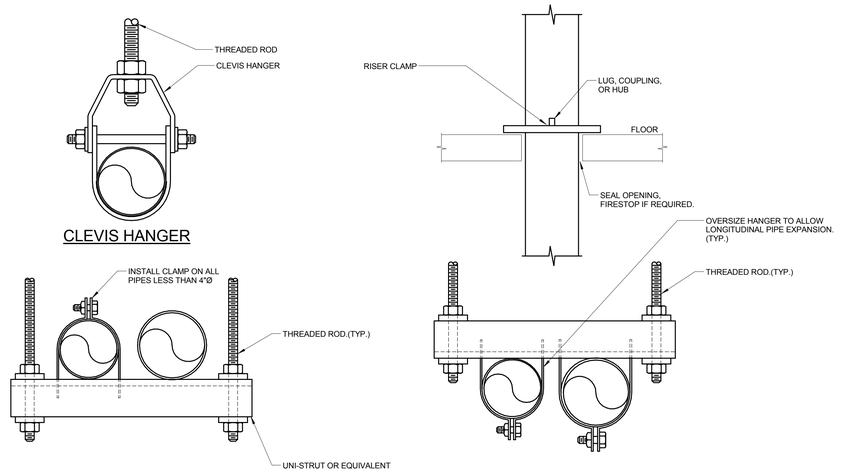


3 PIPE THROUGH NON-FIRE RATED WALL

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO SEAL AIRTIGHT AROUND PIPES FOR NOISE TRANSMISSION CONTROL.
2. FLOOR OPENINGS ARE SIMILAR SEE SPECIFICATION SECTION 21 05 29 - PLUMBING FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
3. SEE SPECIFICATION SECTIONS SECTION 21 05 03 - FIRE PROTECTION FOR ADDITIONAL INFORMATION.



4 PIPE SUPPORT DETAIL

NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FIRE PROTECTION RISER DIAGRAM & DETAILS

SHEET NUMBER:
FP3.00

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REFERENCE SCALE IN INCHES
0 1 2 3

FIRE PROTECTION SCHEDULE GENERAL NOTES

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.

FIRE SPRINKLER USAGE SCHEDULE

AREA TYPE (NOTE 1 & 5)	AREA HAZARD	SPRINKLER					MANUFACTURER & MODEL	REMARKS
		SYMBOL (NOTES 3 & 4)	TYPE	RESPONSE	FINISH	TEMPERATURE °F		
AREAS WITHOUT FINISHED CEILING	SEE PLANS	SPR-1	PENDENT	QUICK	ROUGH BRASS	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTES 2, 6
AREAS WITHOUT FINISHED CEILING	SEE PLANS	SPR-2	UPRIGHT	QUICK	ROUGH BRASS	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	NOTES 2, 6
AREAS WITH FINISHED CEILINGS	SEE PLANS	SPR-3	CONCEALED	QUICK	WHITE	155	VIKING VK, RELIABLE G4A, TYCO RFII, VICTAULIC V3802	NOTE 2
ELEVATOR PIT	SEE PLANS	SPR-4	SIDEWALL	QUICK	ROUGH BRASS	200	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2710	NOTE 2

NOTES:
1. REFER TO FLOOR PLANS FOR ZONING REQUIREMENTS.
2. ALL SPRINKLERS SHALL BE UL LISTED.
3. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
4. SYMBOL IS PRIMARILY FOR INDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
5. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
6. CONTRACTOR SHALL PROVIDE SPRINKLER WITH CORROSION RESISTANT COATING FOR JANITOR'S CLOSETS.

FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	MANF. & MODEL
ADV-1	AUTOMATIC DRIP VALVE, 175 PSI WP, BRASS BAR, BERYLLIUM COPPER SPRING AND RETAINING RING, CLOSING PRESSURE 7 PSI WITH INCREASING PRESSURE, OPENING PRESSURE 6 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET.	VIKING B-1, TYCO AD-1, RELIABLE C.
AV-1	ANGLE VALVE, 1/2" TO 2", 175 PSI, BRONZE BODY, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED. UL.	UNITED 126S UL NIBCO KT-67-UL / T-301-W KENNEDY 98 SD, FPPI
BF-1	2" TO 12" BUTTERFLY VALVE, 175 PSI WP, LUGGED OR GROOVED TYPE, IRON BODY, ALUMINUM BRONZE OR EPDM COATED IRON DISC, STAINLESS STEEL STEM AND SCREWS, EPDM SEAT, INTEGRAL MONITOR SWITCH, RATED FOR DEAD END SERVICE, UL LISTED. 1" TO 2-1/2" SLOW CLOSE BUTTERFLY VALVE, 175 PSI WP, BRONZE BODY, TYPE 304 STAINLESS STEEL ELASTOMER COATED DISK, SLOW CLOSE MANUAL OPERATOR WITH INTEGRAL TAMPER SWITCH, GROOVED OR THREADED ENDS. UL LISTED.	2" TO 12": GEM, TYCO, KENNEDY, NIBCO, VICTAULIC, KENNEDY, ANVILSTAR 1" TO 2-1/2": MILWAUKEE BB-SCS OR APPROVED EQUAL
BFP-1	DOUBLE CHECK BACKFLOW PREVENTER WITH SPRING LOADED CHECK VALVES. CAST IRON CONSTRUCTION, WITH BRONZE, PLASTIC OR STAINLESS STEEL INTERNAL PARTS AND STAINLESS STEEL SPRINGS. OS&Y RISING STEM SHUTOFF GATE VALVES ON BOTH SIDES OF CHECK VALVES. UNITS SHALL INCLUDE FOUR TEST COCKS WITH SHUT-OFF VALVES AND SHALL BE BACKFLOW TESTED AT THE FACTORY. RATED FOR 175 PSI AT 33 DEGREES F. TO 140 DEGREES F. MAXIMUM PRESSURE DROP 8 PSI AT 10 FPS REGARDLESS OF SIZE. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE. APPROVED BY: USC FCCC & HR, AWWA C510-92, ASSE 1015, IAPMO AND SBCCI LISTED, UL LISTED.	WATTS SERIES 007 & 709, CONBRACO SERIES 40-100, FEBCO 850, WILKINS 950XL & 350
CK-1	2-1/2" TO 12" SWING CHECK VALVE, 175 PSI WP, FLANGED OR GROOVED, IRON BODY, BRONZE MOUNTED, BRONZE SEAT RING AND RUBBER CLAPPER FACING, SWING TYPE, UL LISTED. 1/2" TO 2" CHECK VALVE, 250 PSI WP, THREADED OR GROOVED, BRASS BODY, BRASS SEAT AND RUBBER CLAPPER FACING, SPRING LOADED IN-LINE TYPE, UL LISTED	2-1/2" TO 12": VIKING D-1/G-1, TYCO CV-1F, RELIABLE D OR G, KENNEDY 126A OR 426, ANVILSTAR 78FP TYCO CV-2 RELIABLE D OR G KENNEDY 126A OR 426 1-1/2" TO 2":VIKING L-1/K-1
EB-1	ELECTRIC BELL, 10" GONG SIZE, MINIMUM UL SPHERICAL dB MEASUREMENT OF 81, 120 VOLT AC, STEEL GONG, DIECAST ALUMINUM BASE, W/RED FINISH.	POTTER PBA12 JOHNSON FIRE & SPECIALTIES CATALOG PAGE 24-04
FDC-1	5" STORZ FIRE DEPT. INLET CONNECTION, HARD COATED ALUMINUM WITH STORZ ON ONE END AND 4" FEMALE NATIONAL PIPE THREAD ON OTHER. PLUGS, CHAINS, KNOX STAINLESS STEEL LOCKING FDC CAPS WITH MATCHING THREADS AND CHROME FINISH, POLISHED CHROME PLATED WALL LABELED "AUTO. SPR." 5" STORZ. UL. THREADS TO MATCH LOCAL FIRE DEPARTMENTS. CONTRACTOR TO COORDINATE PURCHASE OF KNOX LOCKING CAP WITH LOCAL FIRE DEPARTMENT.	POTTER-ROEMER 5795 SERIES, CROKER, GUARDIAN, ELKHART.
FS-1	FLOW SWITCH, TYPE FOR USE ON WET PIPE SPRINKLER SYSTEM TO DETECT A MINIMUM FLOW OF 10 GPM. TWO SINGLE POLE DOUBLE THROW SWITCHES WITH PNEUMATIC RETARD-ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, TAMPER RESISTANT METAL HOUSING. UL LISTED.	SYSTEM SENSOR 1POS SERIES, POTTER ELECTRIC VSR-F
IT-1	1" INSPECTOR'S TEST AND DRAIN VALVE WITH INTEGRAL SIGHT GLASS, BALL VALVE WITH INTEGRAL LABELED PLATE SHOWING OFF-TEST-DRAIN POSITIONS. FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, UL.	RELIABLE B W/1" BALL VALVE TYCO F350 AGF MODEL 1000
MS-1	MONITOR SWITCH - ELECTRIC, ONE SINGLE POLE, DOUBLE THROW CONTACT, CAST ALUMINUM HOUSING WITH CORROSION RESISTANT PARTS, WITH J-BOLTS FOR MOUNTING. UL/FM. VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.	POTTER ELECTRIC OSYSU-1 SYSTEM SENSOR OSY2

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MULTIPURPOSE FACILITY

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
FIRE PROTECTION MATERIAL LIST

SHEET NUMBER:
FP4.00

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REFERENCE SCALE IN INCHES
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GENERAL TECHNOLOGY NOTES:

1. "1/T3.00" INDICATES DETAIL NUMBER / SHEET NUMBER.
2. "SC-IO-W" INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION".
3. A SLASH IS USED BETWEEN TWO SUBSCRIPTS, i.e. A/H
4. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
5. "(#)" INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

FROM FINISHED FLOOR TO CENTERLINE MOUNTING SUBSCRIPT KEY:
TECHNOLOGY OUTLETS
/A MOUNT ABOVE COUNTER (+6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH)
/L MOUNT IN LAB CASEWORK
/H MOUNT HORIZONTAL

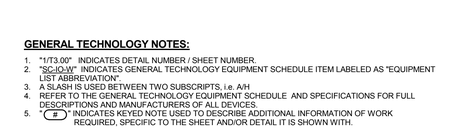
ABBREVIATION KEY:
T.C. TECHNOLOGY CONTRACTOR
AV.C. AUDIO/VISUAL CONTRACTOR
E.C. ELECTRICAL CONTRACTOR
M.C. MECHANICAL CONTRACTOR
G.C. GENERAL CONTRACTOR
AFF ABOVE FINISH FLOOR
BFC BELOW FINISHED CEILING
C CONDUIT
SIM SIMILAR
TYP TYPICAL
+#" MOUNTING HEIGHT ABOVE FINISHED FLOOR
J-BOX JUNCTION BOX

TELECOM ROOM ABBREVIATION KEY:
EF-# ENTRANCE FACILITY.
HC-# HORIZONTAL CROSS-CONNECT
IC-# INTERMEDIATE CROSS-CONNECT
MC-# MAIN CROSS-CONNECT
TR-# TELECOMMUNICATIONS ROOM

LINE TYPE KEY:
——— NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
— — — — NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
——— NEW WORK BY OTHERS, AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- - - - - - - - - - EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

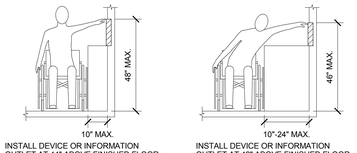
TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA REQUIREMENTS FOR ALL CONFIGURATIONS DETAIL ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION THIS CONTRACTOR SHALL ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS, REFER TO 27 05 03 AND 28 05 03.
8. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
9. FIRESTOPPING REFERS TO THE ITEMS SPECIFICALLY ADDRESSED IN DIVISION 27 AND 28 DOCUMENTS. REFER TO THE INDIVIDUAL SPECIFICATION SECTIONS FOR INFORMATION SPECIFIC TO FIRESTOPPING.
10. ALL "LADDER RACK" AND "CABLE TRAY" SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATIONS SECTION 27 05 28 AND 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.



INSTALL DEVICE OR INFORMATION OUTLET AT 44" ABOVE FINISHED FLOOR.
INSTALL DEVICE OR INFORMATION OUTLET AT 40" ABOVE FINISHED FLOOR.
INSTALL DEVICE OR INFORMATION OUTLET AT 44" MAX. ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS



INSTALL DEVICE OR INFORMATION OUTLET AT 44" ABOVE FINISHED FLOOR.
INSTALL DEVICE OR INFORMATION OUTLET AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA GUIDELINES FOR ALL CONFIGURATIONS

SUGGESTED MATRIX OF SCOPE RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3., 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2., 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7., 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2., 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF SCOPE RESPONSIBILTY NOTES

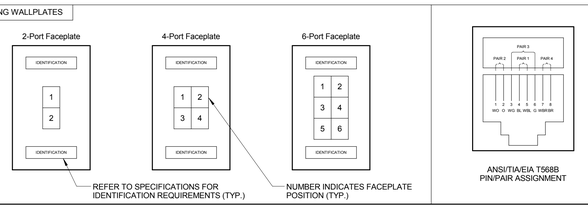
1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE CONTRACT DOCUMENTS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER (OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR) SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
HC-1	5/T3.00	T1.13	1108C
HC-2	1/T3.00	T1.21	2103

INFORMATION OUTLET DETAILS

SINGLE GANG WALLPLATES



ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT

INFORMATION OUTLET SCHEDULE LEGEND	
JACK TYPE	IO SCHEDULE DESCRIPTION
DATA	CAT 6 RJ-45
TV	F-CONNECTOR

INFORMATION OUTLET SCHEDULE

NOTE: REFER TO THE INFORMATION OUTLET SCHEDULE LEGEND FOR POSITION JACK TYPE DESCRIPTION, THE INFORMATION OUTLET DETAILS AND T7.00 GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

CONFIGURATION	FACEPLATE PORTS	FACEPLATE FEATURES: POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	POSITION 7 JACK TYPE	POSITION 8 JACK TYPE	POSITION 9 JACK TYPE	POSITION 10 JACK TYPE	POSITION 11 JACK TYPE	POSITION 12 JACK TYPE	SCHEDULE NOTES
C1	2	DATA	BLANK											
C1-1	2	DATA	BLANK											
C1-C	0	DATA												2.
C2	2	DATA	DATA											
C2-WAP	0	DATA	DATA											1.
C3	4	DATA	DATA	DATA	BLANK									
C4	4	DATA	DATA	DATA	DATA									
C6	6	DATA	DATA	DATA	DATA	DATA	DATA							
DS	2	DATA	TV											

NOTES:

1. PROVIDE REMOVABLE BLANK INSERT FOR UNUSED PORTS (PANDUIT CMB SERIES OR PREAPPROVED EQUAL)
2. COORDINATE WITH OWNER FOR LABELING STANDARD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SEE PLANS FOR DEVICE QUANTITIES AND LOCATION.
3. JACKS SHALL BE CONFIGURED FOR ANSI/TIA/EIA T568B REQUIREMENTS.
4. REFER TO T3.00 FOR CONNECTIVITY RISER DIAGRAMS.

SCHEDULE NOTES:

1. LOCATION OF FUTURE WIRELESS ACCESS POINT, CONTRACTOR SHALL TERMINATE CABLES ON 8P8C RJ-45 PLUG FOR DIRECT CONNECTION DEVICE, PROVIDE A 20' SLACK COIL AT NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION BY OWNER.
2. CONTRACTOR SHALL TERMINATE CABLES ON 8P8C RJ-45 PLUG FOR DIRECT CONNECTION TO FUTURE CCTV CAMERA. PROVIDE 20' SLACK AT NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION BY OWNER.

TECHNOLOGY SYMBOL LIST

SYMBOL	EQUIPMENT LIST ABBREVIATION	DESCRIPTION	NOTES:
CR1	AC-CR1-W	CREDENTIAL READER - TYPE 1 (ROUGH-IN ONLY)	3., 6.
CSS	AC-CSS	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	3., 6.
SP1 #-#	AV-SP1-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 1	5.
SP2 #-#	AV-SP2-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 2	5.
SP3 #-#	AV-SP3-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 3	5.
PRO	AV-PRO-2	PROJECTOR	.
ANT	AV-ANT-C	UHF ACTIVE DIRECTIONAL ANTENNA (CEILING)	.
ANT2	AV-ANT-2	ASSISTIVE LISTENING CEILING MOUNTED ANTENNA	.
WP1	AV-WP1-C	AV WALLPLATE (CEILING) - TYPE 1	
WP1	AV-WP1-W	AV WALLPLATE (WALL) - TYPE 1	
WP2	AV-WP2-W	AV WALLPLATE (WALL) - TYPE 2	
WP3	AV-WP3-W	AV WALLPLATE (WALL) - TYPE 3	
WP4	AV-WP4-W	AV WALLPLATE (WALL) - TYPE 4	
WP5	AV-WP5-W	AV WALLPLATE (WALL) - TYPE 5	
WP6	AV-WP6-W	AV WALLPLATE (WALL) - TYPE 6	
WP7	AV-WP7-W	AV WALLPLATE (WALL) - TYPE 7	
C1	CC-C1-W	CLOCK (WALL) - TYPE 1	.
S1	AV-S1-C	AUDIO SPEAKER - TYPE 1 (CEILING)	.
S3	AV-S3-C	AUDIO SPEAKER - TYPE 3 (CEILING)	.
VC1	AV-VC1-W	VOLUME CONTROL WITH INPUT	.
EP	IC-EP-W	EMERGENCY PHONE - WALL	.
C#	SC-IO-C	INFORMATION OUTLET (CEILING)	1., 2.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1., 2.
RI	SC-RI-W	INFORMATION OUTLET ROUGH-IN (WALL)	.
W	SC-WP-W	WALL PHONE	.
C#	SC-IO-FB	ELECTRICAL FLOOR BOX WITH TECHNOLOGY	1., 2., 4.
CAM	AV-CAM-1	AV CAMERA WALL PLATE	6.

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPES KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL NOTES:

1. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T0.00 FOR ADDITIONAL INFORMATION.
2. SYMBOL SUBSCRIPT INDICATES DEVICE TYPE. REFER TO EQUIPMENT SCHEDULE ON T7.00 FOR ADDITIONAL INFORMATION.
3. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T5.00 FOR ADDITIONAL INFORMATION.
4. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T0.00 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. SYMBOL SUBSCRIPT INDICATES PAGING ZONE.
6. ROUGH-IN AND CABLING ONLY. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.

TECHNOLOGY SHEET INDEX

T0.00	TECHNOLOGY COVER SHEET
T0.01	TECHNOLOGY SITE PLAN
T1.11	LEVEL 1 PLAN - AREA 1 - TECHNOLOGY
T1.12	LEVEL 1 PLAN - AREA 2 - TECHNOLOGY
T1.13	LEVEL 1 PLAN - AREA 3 - TECHNOLOGY
T1.21	LEVEL 2 PLAN - AREA 1 - TECHNOLOGY
T1.22	LEVEL 2 PLAN - AREA 2 - TECHNOLOGY
T1.23	LEVEL 2 PLAN - AREA 3 - TECHNOLOGY
T1.40	ALTERNATE PLANS - TECHNOLOGY
T3.00	ENLARGED PLANS - TECHNOLOGY
T3.01	ENLARGED PLANS - TECHNOLOGY
T4.00	TECHNOLOGY DETAILS
T5.00	TECHNOLOGY RISER DIAGRAMS
T6.00	TECHNOLOGY FLOW DIAGRAM
T7.00	TECHNOLOGY EQUIPMENT SCHEDULE

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

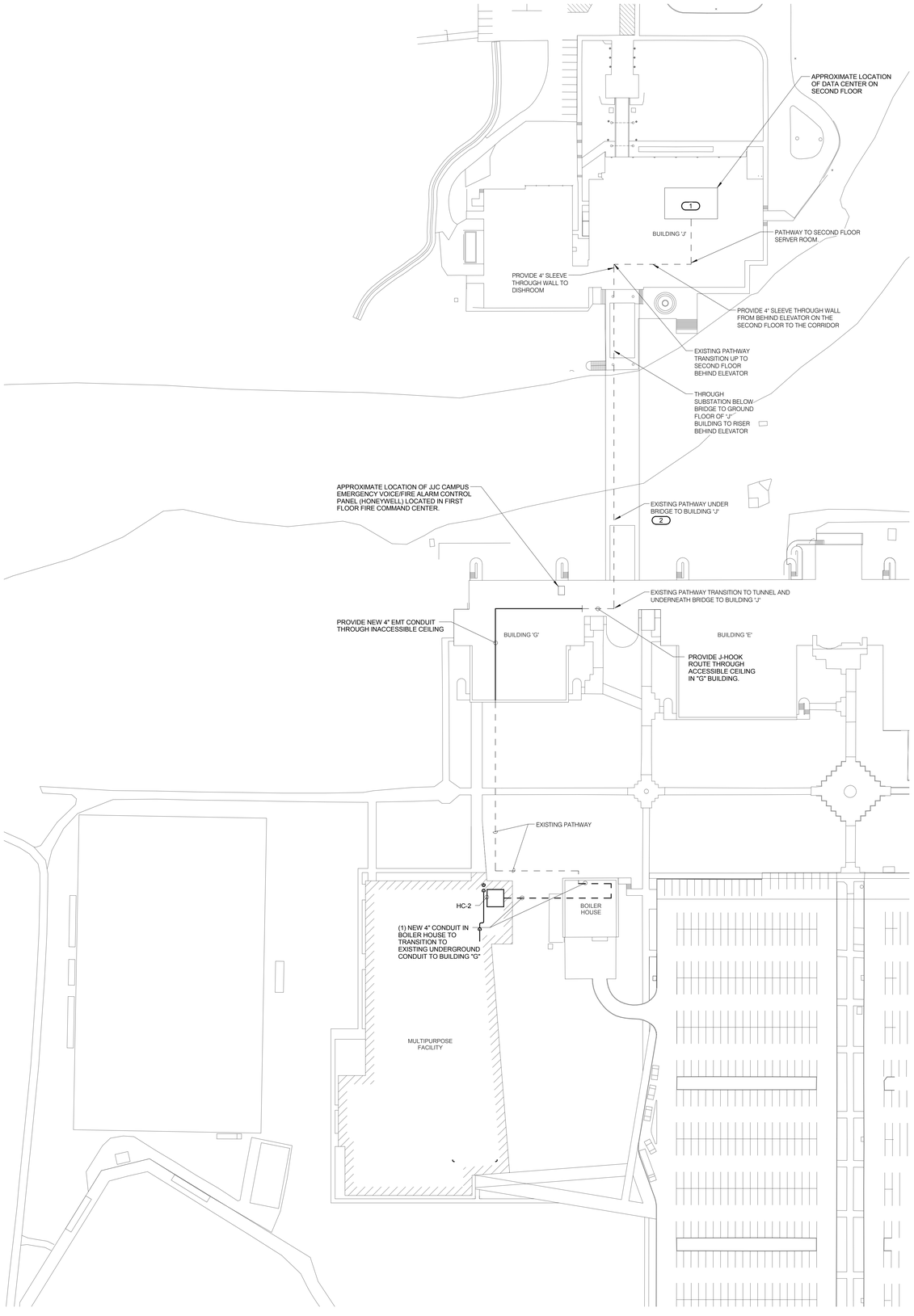
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY COVER SHEET

SHEET NUMBER:
T0.00

KEYNOTES: (#)

1. COORDINATE WITH JJC IT DEPARTMENT TERMINATION OF 24 SM FIBER OPTIC STRANDS IN EXISTING CLOSET. CONTRACTOR SHALL VERIFY EXACT DISTANCE IN FIELD.
2. COORDINATE WITH JJC IT DEPARTMENT FOR AVAILABLE EMPTY CONDUIT WITH PULL STRING UNDER BRIDGE FOR INSTALLATION OF FIBER.



NORTH

1 TECHNOLOGY SITE PLAN

1" = 60'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY SITE PLAN

SHEET NUMBER:
T0.01

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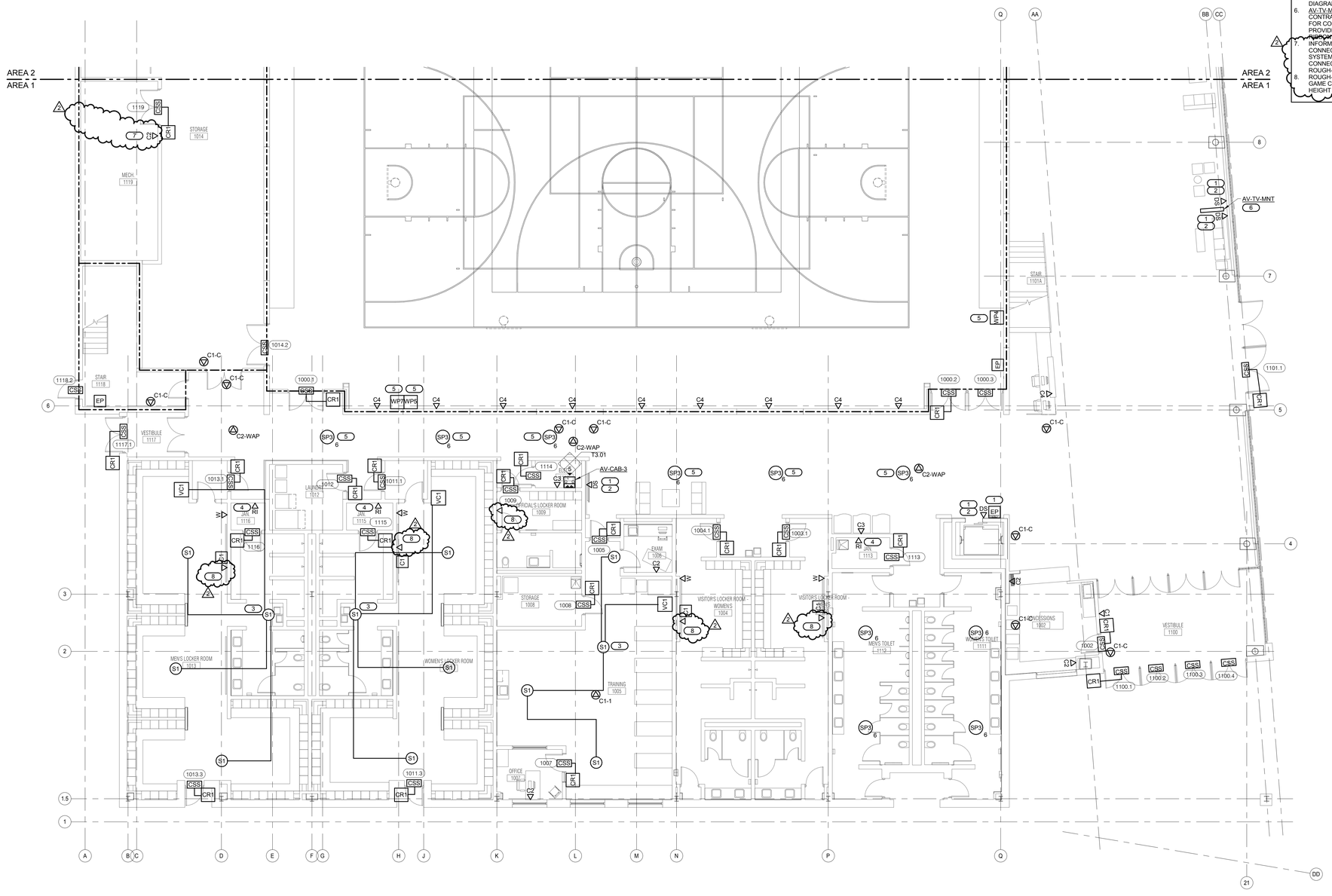
1. ALL INFORMATION OUTLETS ON THIS SHEET SHALL BE FED FROM HC-2 UNLESS OTHERWISE NOTED.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. ALL PROJECTORS AND FLAT PANEL MONITORS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
4. COORDINATE ALL CCTV CAMERA ROUGH-INS WITH COLLEGE PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. COORDINATE WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
2. OWNER FURNISHED CONTRACTOR INSTALLED MONITOR.
3. CONTRACTOR SHALL CONNECT INTERNET RADIO FEED TO SECONDARY INPUT AND AV-VC1-W TO PRIMARY INPUT. ROUTE 2 CONDUCTOR 18 AWG TO AV-CAB-1 IN ROOM 1114. REFER TO 2/T3.01 ATHLETICS SOUND SYSTEM RISER DIAGRAM.
4. ROUGH-IN ONLY.
5. REFER TO 1/T6.00 FIELD HOUSE AV FLOW DIAGRAM FOR ADDITIONAL INFORMATION.
6. AV-TV-MNT PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE WITH ARCHITECT FOR CONNECTION TO BUILDING STRUCTURE. PROVIDE COMPLETE CONDUIT THROUGH [illegible]
7. INFORMATION OUTLET PROVIDED FOR CONNECTION TO BUILDING AUTOMATION SYSTEM EQUIPMENT. VERIFY EXACT CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
8. ROUGH-IN PROVIDED FOR CONNECTION TO GAME CLOCKS. VERIFY EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.



LEVEL 1 PLAN - AREA 1 - TECHNOLOGY

1/8" = 1'-0"

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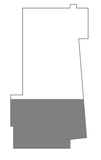
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 1 PLAN - AREA 1 - TECHNOLOGY

SHEET NUMBER:
T1.11

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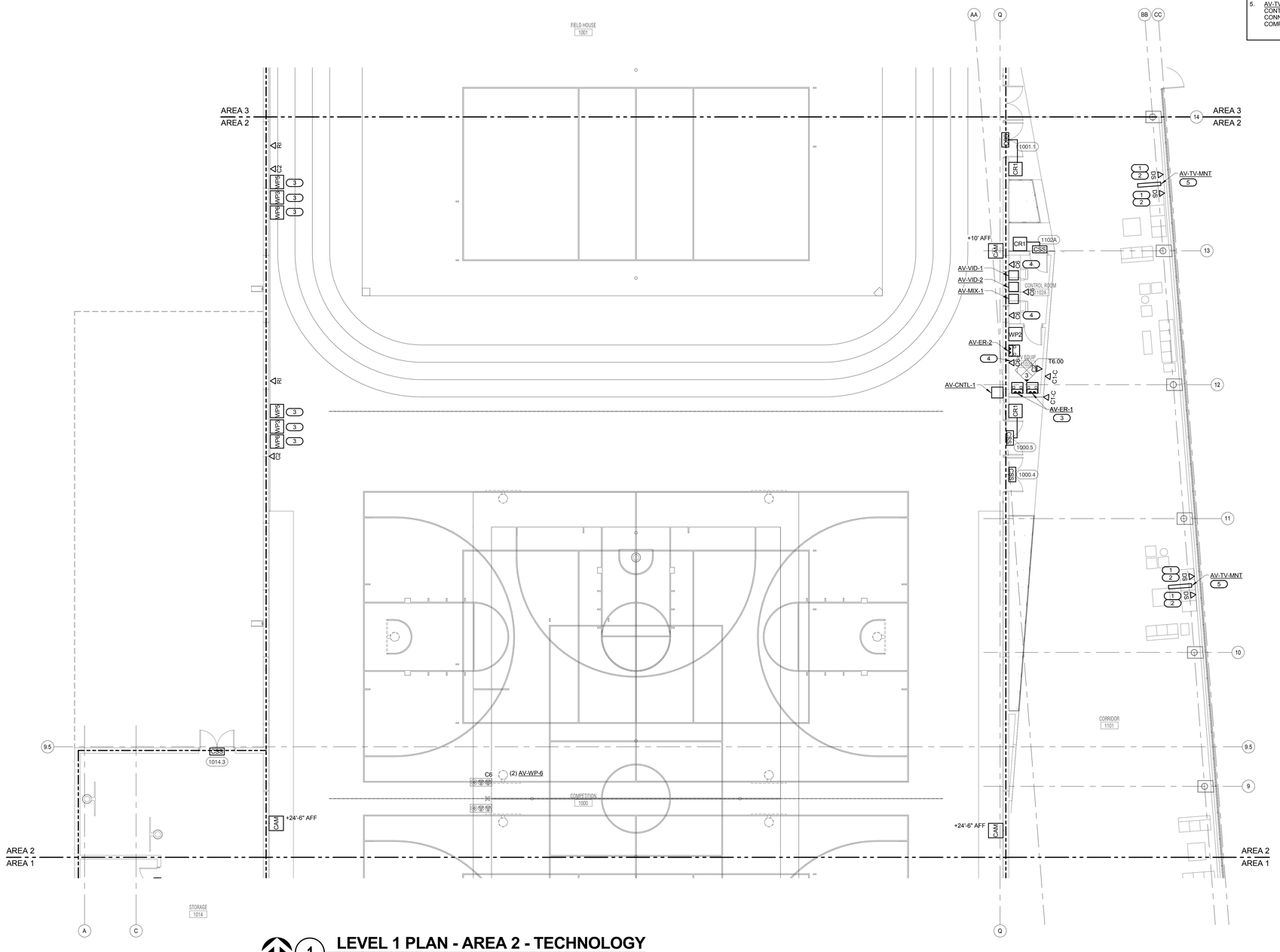
1. ALL INFORMATION OUTLETS ON THIS SHEET SHALL BE FED FROM HC-1 UNLESS OTHERWISE NOTED.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. ALL PROJECTORS AND FLAT PANEL MONITORS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
4. COORDINATE ALL CCTV CAMERA ROUGH-INS WITH COLLEGE PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. COORDINATE WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
2. OWNER FURNISHED CONTRACTOR INSTALLED MONITOR.
3. REFER TO 1/T6.00 FIELD HOUSE AV FLOW DIAGRAM FOR ADDITIONAL INFORMATION.
4. MOUNT IN EC PROVIDED SURFACE MOUNTED RACEWAY.
5. AV-TV-MNT PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE WITH ARCHITECT FOR CONNECTION TO BUILDING STRUCTURE. PROVIDE COMPLETE CONDUIT THROUGH RIBBON TO HC-1.



1 LEVEL 1 PLAN - AREA 2 - TECHNOLOGY

1/8" = 1'-0"

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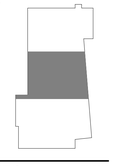
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN - AREA 2 - TECHNOLOGY

SHEET NUMBER:
T1.12

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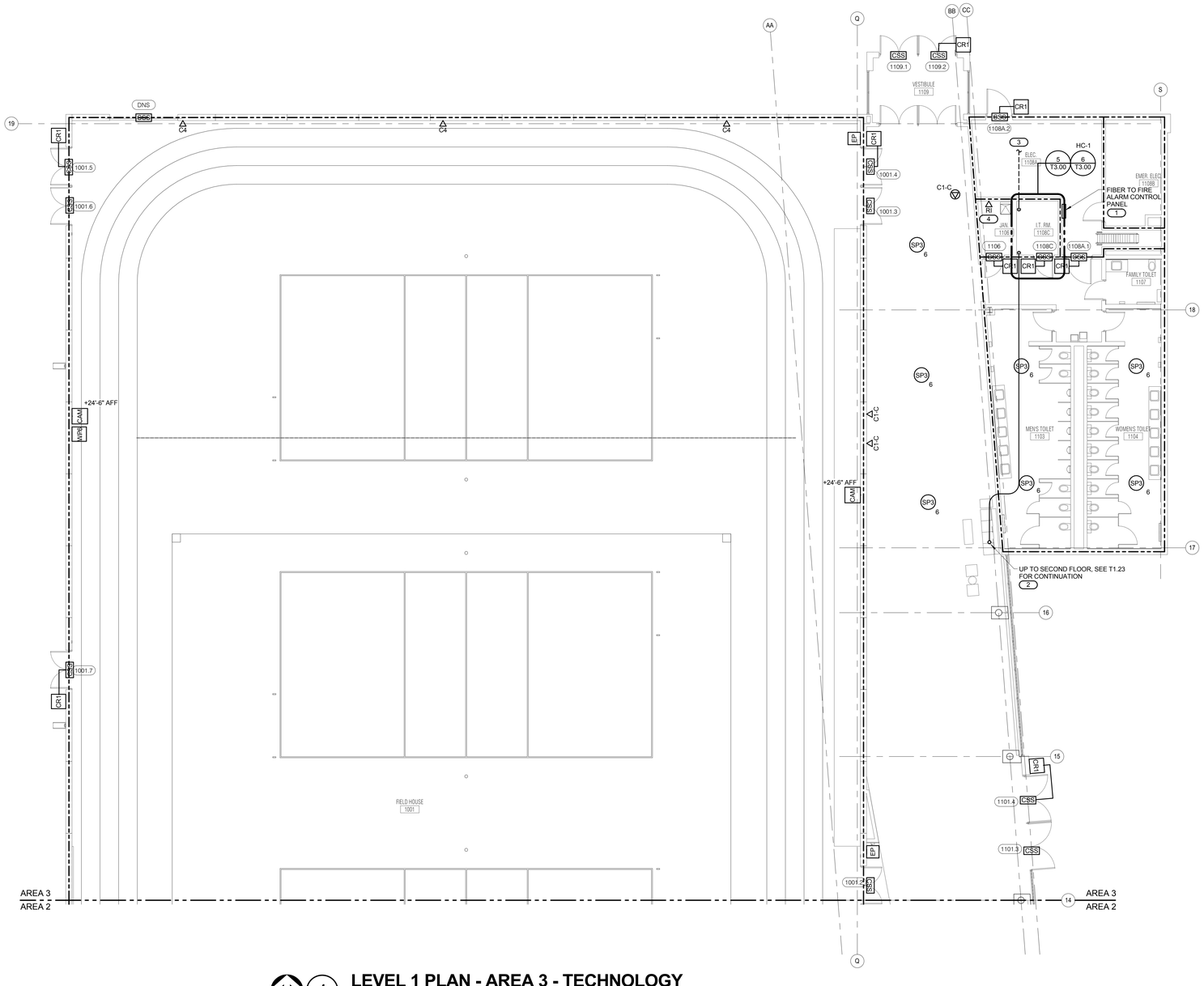
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. ALL PROJECTORS AND FLAT PANEL MONITORS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
4. COORDINATE ALL CCTV CAMERA ROUGH-INS WITH COLLEGE PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. COORDINATE WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
2. ROUTE (1) 4"C TO HC-2. PROVIDE PULL BOXES AND JUNCTION BOXES PER NEC REQUIREMENTS AND PER ANSI/TIA/EIA STANDARDS.
3. ROUTE (1) 4"C TO MAIN BUILDING. REFER TO T0.01 FOR CONTINUATION.
4. ROUGH-IN ONLY.



1 LEVEL 1 PLAN - AREA 3 - TECHNOLOGY

1/8" = 1'-0"

NORTH

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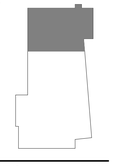
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 1 PLAN - AREA 3 - TECHNOLOGY

SHEET NUMBER:
T1.13

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Illinois Design Firm Registration #184-000973

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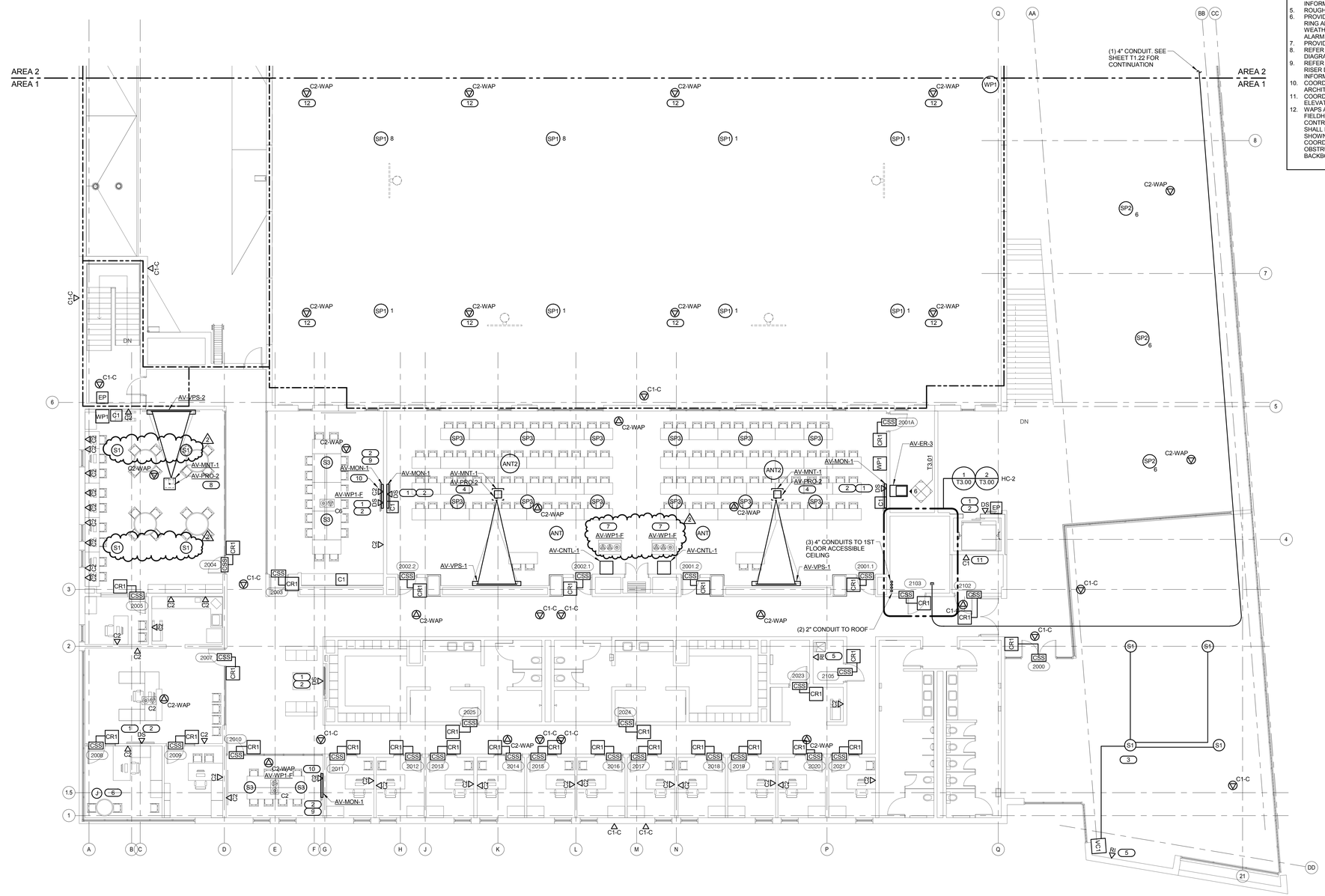
REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES :

1. ALL INFORMATION OUTLETS ON THIS SHEET SHALL BE FED FROM HC-2 UNLESS OTHERWISE NOTED.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. ALL PROJECTORS AND FLAT PANEL MONITORS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
4. COORDINATE ALL CCTV CAMERA ROUGH-INS WITH COLLEGE PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. COORDINATE WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
2. OWNER FURNISHED CONTRACTOR INSTALLED MONITOR.
3. CONTRACTOR SHALL CONNECT INTERNET RADIO FEED TO SECONDARY INPUT AND AV-VC1-W TO PRIMARY INPUT. ROUTE 2 CONDUCTOR 18 AWG TO AV-CAB-1 IN ROOM 1114. REFER TO 2/T3.01 ATHLETICS SOUND SYSTEM RISER DIAGRAM.
4. REFER TO 4/T3.01 PRESENTATION ROOMS 2001/2002 AV RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. ROUGH-IN ONLY.
6. PROVIDE 4-11/16" SQUARE BOX WITH 2 GANG RING AND 1-1/2" CONDUIT TO THE ROOF WITH WEATHERHEAD FOR FUTURE LIGHTNING ALARM SYSTEM.
7. PROVIDE A 1" CONDUIT TO AV-ER-2
8. REFER TO 1/T3.01 TUTORING 2004 AV RISER DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO 3/T3.01 CONFERENCE ROOM AV RISER DIAGRAM FOR ADDITIONAL INFORMATION.
10. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
11. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
12. WAPS AND WIRE GUARDS FOR ALL WAPS IN FIELDHOUSE WILL BE OWNER FURNISHED AND CONTRACTOR INSTALLED. CONTRACTOR SHALL INSTALL AS CLOSE TO LAYOUT AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE LOCATION TO AVOID OBSTRUCTIONS WITH BASKETBALL BACKBOARDS, LIGHTS, ETC.



1 LEVEL 2 PLAN - AREA 1 - TECHNOLOGY

1/8" = 1'-0"

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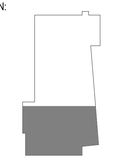
JOLIET JUNIOR COLLEGE
MULTIPURPOSE FACILITY
1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
LEVEL 2 PLAN - AREA 1 - TECHNOLOGY

SHEET NUMBER:
T1.21

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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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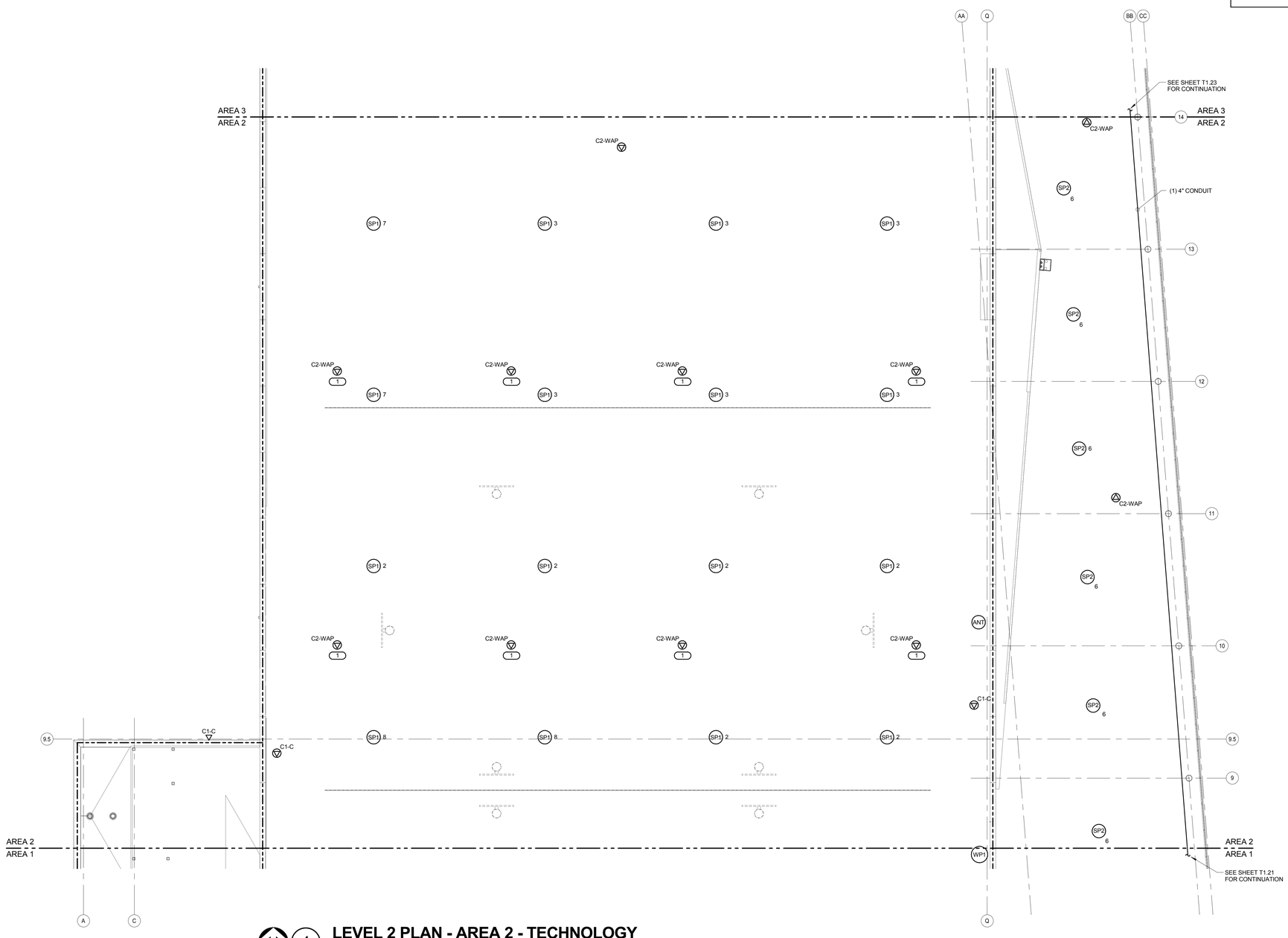
GENERAL SHEET NOTES :

1. ALL INFORMATION OUTLETS ON THIS SHEET SHALL BE FED FROM HC-1 UNLESS OTHERWISE NOTED.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. ALL PROJECTORS AND FLAT PANEL MONITORS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
4. COORDINATE ALL CCTV CAMERA ROUGH-INS WITH COLLEGE PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. WAPS AND WIRE GUARDS FOR ALL WAPS IN FIELDHOUSE WILL BE OWNER FURNISHED AND CONTRACTOR INSTALLED. CONTRACTOR SHALL INSTALL AS CLOSE TO LAYOUT AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE LOCATION TO AVOID OBSTRUCTIONS WITH BASKETBALL BACKBOARDS, LIGHTS, ETC.



1 LEVEL 2 PLAN - AREA 2 - TECHNOLOGY

1/8" = 1'-0"

NORTH

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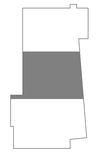
DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN - AREA 2 - TECHNOLOGY

SHEET NUMBER:
T1.22

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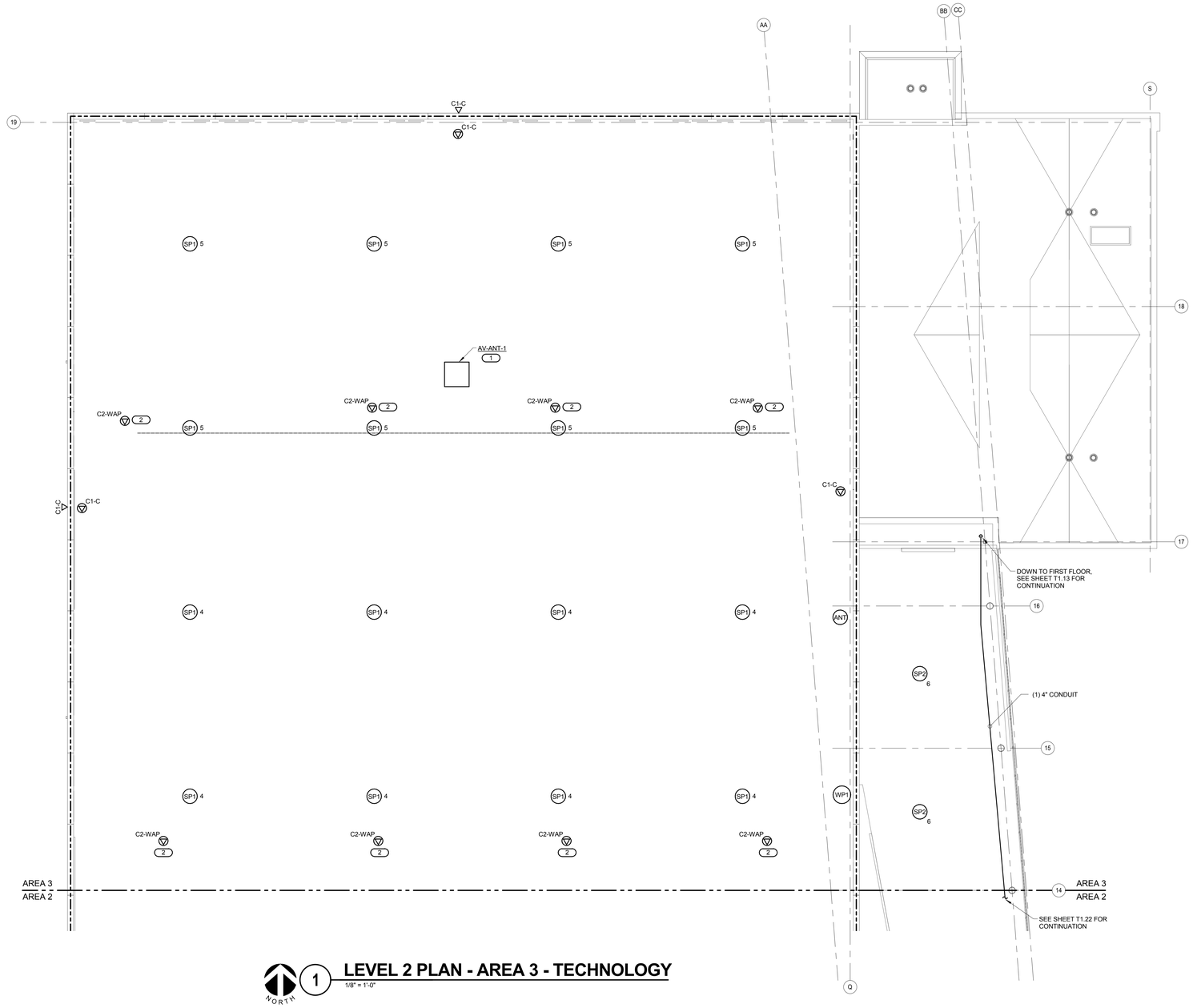
5. REFER TO ARCHITECTS ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING HEIGHTS OF DEVICES.

KEYNOTES: (#)

1. ROOF MOUNTED TV ANTENNA. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT AND FOR FIELD STRENGTH. PROVIDE WEATHER HEAD, MAST AND BALLAST MOUNT. SEE 5/T4.OO PARTIAL CATV RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2. WAPS AND WIRE GUARDS FOR ALL WAPS IN FIELDHOUSE WILL BE OWNER FURNISHED AND CONTRACTOR INSTALLED. CONTRACTOR SHALL INSTALL AS CLOSE TO LAYOUT AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE LOCATION TO AVOID OBSTRUCTIONS WITH BASKETBALL BACKBOARDS, LIGHTS, ETC.



1 LEVEL 2 PLAN - AREA 3 - TECHNOLOGY

1/8" = 1'-0"

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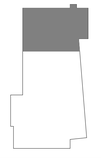
MULTIPURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004

KEY PLAN:



SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LEVEL 2 PLAN - AREA 3 - TECHNOLOGY

SHEET NUMBER:
T1.23

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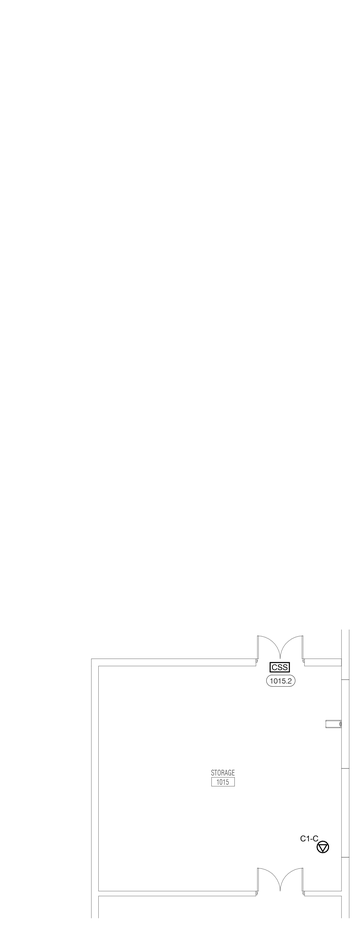
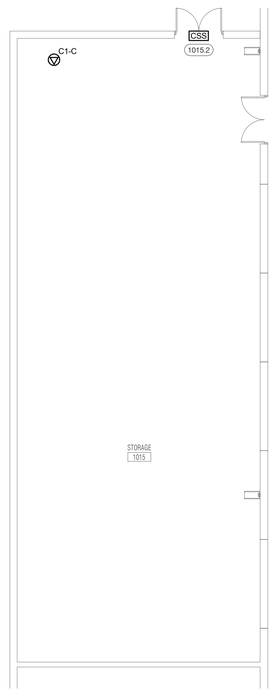


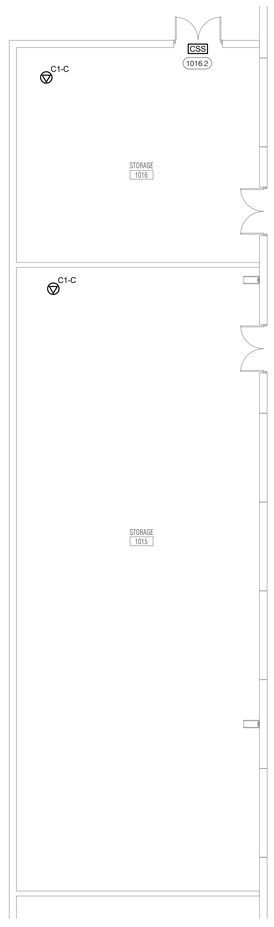
LEVEL 1 PLAN - AREA 2 - TECHNOLOGY - ALT 1

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - TECHNOLOGY - ALT 2

1/8" = 1'-0"



LEVEL 1 PLAN - AREA 2 - TECHNOLOGY - ALT 3

1/8" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15

BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

ALTERNATE PLANS - TECHNOLOGY

SHEET NUMBER:

T1.40

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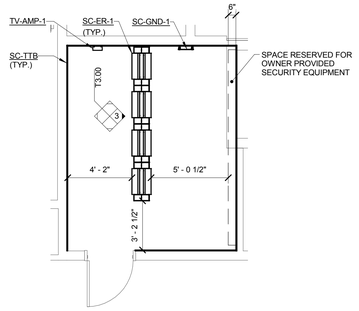
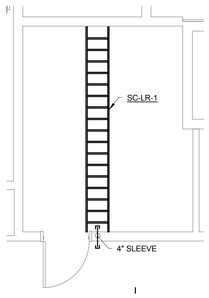


1 EQUIPMENT ROOM LAYOUT HC-2

1/4" = 1'-0"

NOTES:

1. REFER TO 2/T3.00 FOR EQUIPMENT ROOM PATHWAY HC-2.
2. REFER TO 4/T3.00 FOR CONNECTIVITY RISER DIAGRAM HC-2.
3. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

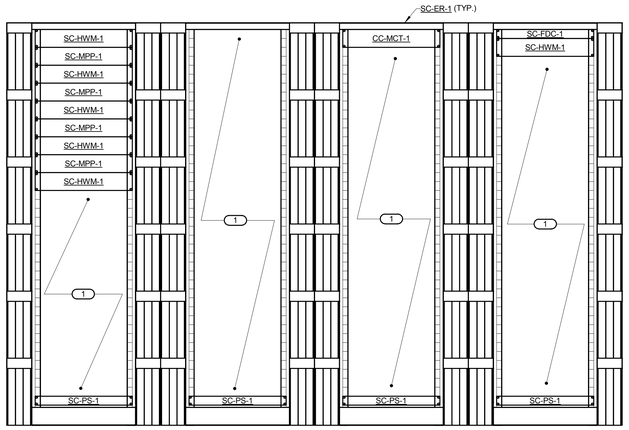


2 EQUIPMENT ROOM PATHWAY HC-2

1/4" = 1'-0"

NOTES:

1. REFER TO 1/T3.00 FOR EQUIPMENT ROOM LAYOUT HC-2.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. INSTALL LADDER RACK AT 7'-6" AFF.



3 EQUIPMENT RACK ELEVATION HC-2

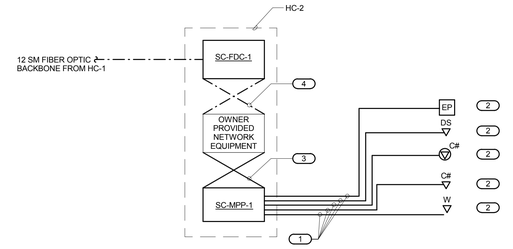
NO SCALE

NOTES:

1. REFER TO 1/T3.00 FOR EQUIPMENT ROOM LAYOUT HC-2.
2. REFER TO 4/T3.00 FOR CONNECTIVITY RISER DIAGRAM HC-2.
3. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. SPACE FOR OWNER PROVIDED EQUIPMENT.



4 CONNECTIVITY RISER DIAGRAM HC-2

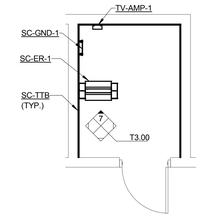
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING AND QUANTITY INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. 23 GAUGE, 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE. SEE SPECIFICATIONS.
2. REFER TO INFORMATION OUTLET SCHEDULE ON T0.0 AND THE FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. RJ-45 TO RJ-45 CATEGORY CAT 6 UTP PATCH CORD. SEE SPECIFICATIONS.
4. FIBER PATCH CORD. SEE SPECIFICATIONS.

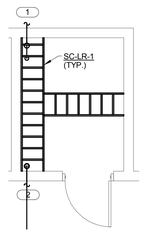


5 EQUIPMENT ROOM LAYOUT HC-1

1/4" = 1'-0"

NOTES:

1. REFER TO 6/T3.00 FOR EQUIPMENT RACK PATHWAY HC-1.
2. REFER TO 8/T3.00 FOR CONNECTIVITY RISER DIAGRAM HC-1.
3. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.



6 EQUIPMENT ROOM PATHWAY HC-1

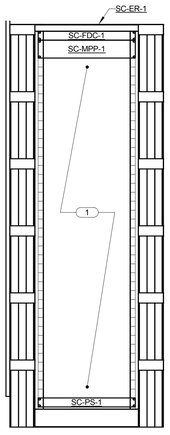
1/4" = 1'-0"

NOTES:

1. REFER TO 5/T3.00 FOR EQUIPMENT ROOM LAYOUT HC-1.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.
3. INSTALL LADDER RACK AT 7'-6" AFF.

KEYNOTES: (#)

1. ROUTE (1) 4"C TO MAIN BUILDING. REFER TO T0.01 FOR CONTINUATION.
2. ROUTE (1) 4" C TO HC-2.



7 EQUIPMENT RACK ELEVATION HC-1

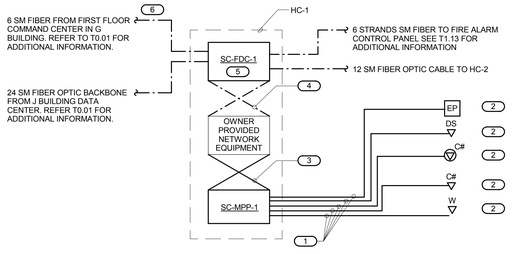
1" = 1'-0"

NOTES:

1. REFER TO 5/T3.00 FOR EQUIPMENT ROOM LAYOUT HC-1.
2. REFER TO 8/T3.00 FOR CONNECTIVITY RISER DIAGRAM HC-1.
3. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. SPACE FOR OWNER PROVIDED EQUIPMENT.



8 CONNECTIVITY RISER DIAGRAM HC-1

NO SCALE

NOTES:

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2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. 23 GAUGE, 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE. SEE SPECIFICATIONS.
2. REFER TO INFORMATION OUTLET SCHEDULE ON T0.0 AND THE FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. RJ-45 TO RJ-45 CATEGORY CAT 6 UTP PATCH CORD. SEE SPECIFICATIONS.
4. FIBER PATCH CORD. SEE SPECIFICATIONS.
5. COORDINATE LOCATION OF FIBER TERMINATIONS IN "J" BUILDING DATA CENTER WITH JJC IT DEPARTMENT.
6. COORDINATE TERMINATION OF FIBER WITH FIRE ALARM CONTRACTOR. REFER TO E3.13 FOR LOCATION OF FIRE ALARM PANEL.

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1215 HOUBOLT ROAD, JOLIET, IL 60431
DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ENLARGED PLANS - TECHNOLOGY

SHEET NUMBER:
T3.00

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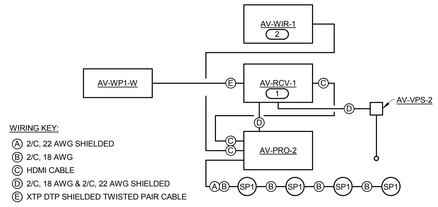
REFERENCE SCALE IN INCHES
0 1 2 3



WIRING KEY:

- (A) 2/C, 22 AWG SHIELDED
- (B) 2/C, 18 AWG
- (C) HDMI CABLE
- (D) 2/C, 18 AWG & 2/C, 22 AWG SHIELDED
- (E) XTP DTP SHIELDED TWISTED PAIR CABLE

1 TUTORING 2004 AV RISER DIAGRAM

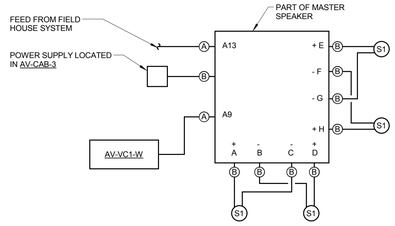
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. MOUNT DIGITAL MEDIA RECEIVER AT PROJECTOR. SECURE DEVICE TO PROJECTOR.
2. MOUNT WIRELESS GATEWAY AT PROJECTOR. SECURE DEVICE TO PROJECTOR.



WIRING KEY:

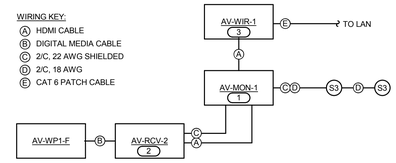
- (A) 2/C, 22 AWG SHIELDED
- (B) 2/C, 18 AWG

2 ATHLETICS SOUND SYSTEM RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



WIRING KEY:

- (A) HDMI CABLE
- (B) DIGITAL MEDIA CABLE
- (C) 2/C, 22 AWG SHIELDED
- (D) 2/C, 18 AWG
- (E) CAT 6 PATCH CABLE

3 CONFERENCE ROOM AV RISER DIAGRAM

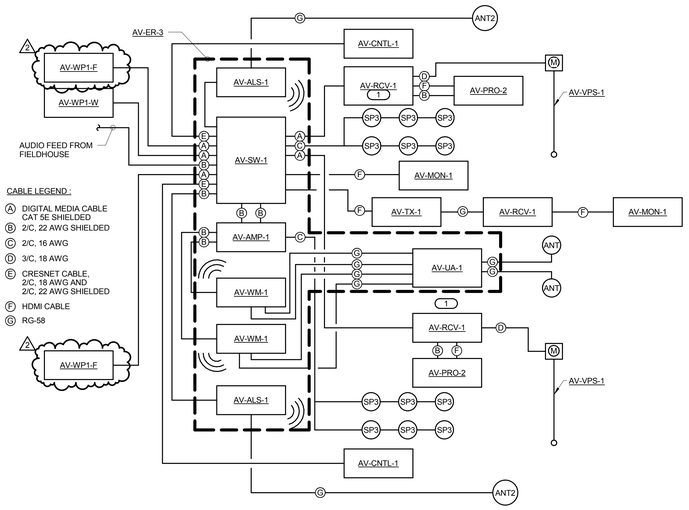
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. AV-MON-1 TO BE MOUNTED ON AV-MNT-2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T7.00 FOR ADDITIONAL INFORMATION.
2. MOUNT BEHIND DISPLAY. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
3. MOUNT BEHIND DISPLAY. SECURE TO MOUNT.



CABLE LEGEND :

- (A) DIGITAL MEDIA CABLE CAT 5E SHIELDED
- (B) 2/C, 22 AWG SHIELDED
- (C) 2/C, 16 AWG
- (D) 3/C, 18 AWG
- (E) CRESNET CABLE, 2/C, 18 AWG AND 2/C, 22 AWG SHIELDED
- (F) HDMI CABLE
- (G) RG-58

4 PRESENTATION ROOMS 2001/2002 A/V RISER DIAGRAM

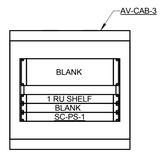
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

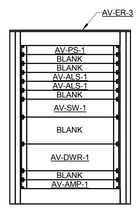
KEYNOTES: (#)

1. MOUNT DIGITAL MEDIA RECEIVER AT PROJECTOR. SECURE DEVICE TO PROJECTOR.



5 ATHLETICS SOUND SYSTEM RACK ELEVATION

1" = 1'-0"



6 PRESENTATION ROOMS 2001/2002 A/V SYSTEM RACK ELEVATION

1" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
ENLARGED PLANS - TECHNOLOGY

SHEET NUMBER:
T3.01

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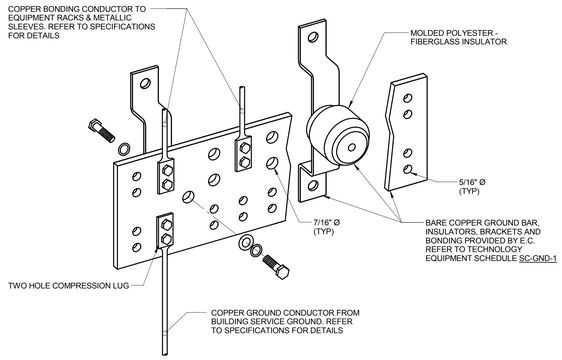
REFERENCE SCALE IN INCHES
0 1 2 3

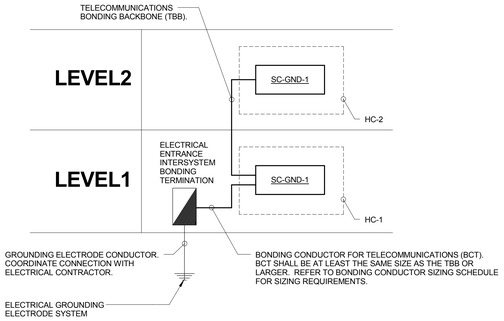


1 BONDING BUS BAR DETAIL

NO SCALE

NOTES:

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO 3/T4.00 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



2 COMMUNICATIONS BONDING RISER DIAGRAM

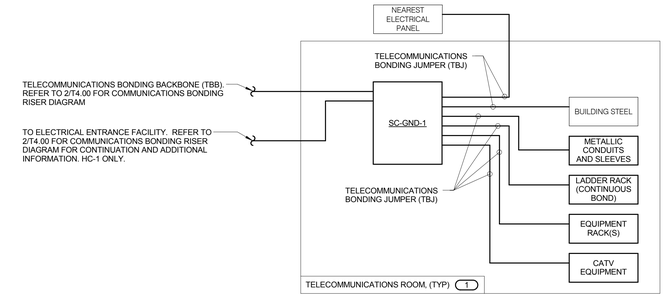
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR SPECIFIC ROUTING AND QUANTITY INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL BONDING CONDUCTORS OF THE TELECOMMUNICATIONS SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG (PLENUM RATED) COPPER CONDUCTORS (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS DISTANCE IS LESS THAN 66 FEET, THEN REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA.
3. BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT.
4. REFER TO 3/T4.00 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO T0.00 FOR TELECOMMUNICATIONS ROOM REFERENCES.

BONDING CONDUCTOR SIZING SCHEDULE

CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0



3 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

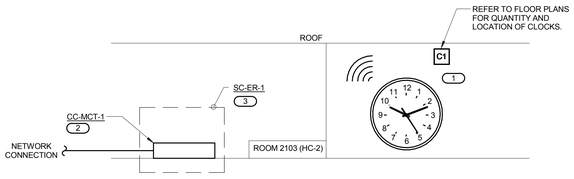
NO SCALE

NOTES:

1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING AND QUANTITY INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL BONDING CONDUCTORS IN THE TELECOMMUNICATIONS SYSTEM SHALL BE 3/0 AWG PLENUM RATES COPPER CONDUCTORS (GREEN) UNLESS DISTANCE IS LESS THAN 66 FEET, THEN REFER TO BONDING CONDUCTOR SIZING SCHEDULE.
3. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT TELECOMMUNICATIONS BONDING JUMPERS TO EQUIPMENT. ALL CONNECTIONS SHALL UTILIZE LISTED HARDWARE.
4. BONDING TO PAINT TREATED SURFACES SHALL UTILIZE PANT PIERCING LUGS.
5. REFER TO THE BONDING BUS BAR DETAIL ON 1/T4.00 FOR ADDITIONAL INFORMATION FOR THE SC-GND-1.

KEYNOTES: (#)

1. REFER TO T0.00 FOR TELECOMMUNICATIONS ROOM NUMBERS AND LOCATIONS.

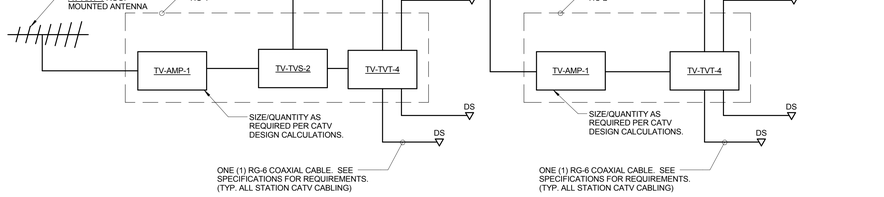


4 WIRELESS GPS CLOCK RISER DIAGRAM

NO SCALE

KEYNOTES:

1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF CLOCKS.
2. THE CC-MCT-1 SHALL BE PROGRAMMED TO SYNCHRONIZE. PROVIDE ALL NECESSARY HARDWARE, PROGRAMMING AND COORDINATE CONNECTION AND PROGRAMMING WITH EQUIPMENT PROVIDER.
3. ANTENNA MOUNTED ON TOP OF RACK.



5 PARTIAL CATV RISER DIAGRAM

NO SCALE

NOTES:

1. CONTRACTOR TO PROVIDE CATV SYSTEM TO ALLOW 6dB +/- 3dB OF OUTPUT AT ALL TV OUTLETS, ACTUAL TAP/SPLITTER SETTINGS, LAYOUT, AND AMP SIZING/QUANTITY TO BE INCLUDED IN CONTRACTOR'S FINAL DESIGN. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CABLING IS TO BE RG-6 COAXIAL UNLESS OTHERWISE NOTED.
3. SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH TELEVISION OUTLET.

KEYNOTES:

1. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.

dka

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY DETAILS

SHEET NUMBER:
T4.00

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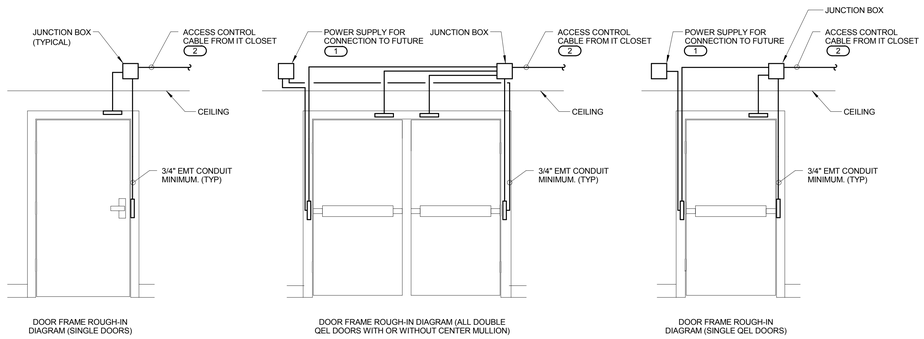
REFERENCE SCALE IN INCHES
0 1 2 3



DOOR FRAME ROUGH-IN DIAGRAM (SINGLE DOORS)

DOOR FRAME ROUGH-IN DIAGRAM (ALL DOUBLE QEL DOORS WITH OR WITHOUT CENTER MULLION)

DOOR FRAME ROUGH-IN DIAGRAM (SINGLE QEL DOORS)

1 DOOR ROUGH-IN AND WIRING DIAGRAM

NO SCALE

NOTES:

1. INSTALLING CONTRACTOR TO SIZE BACKBOXES AND CONDUIT PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO JUNCTION BOX WHERE CEILING IS A GYPSUM BOARD CEILING. LOCATE BOXES ABOVE NEAREST ACCESSIBLE CEILING AND EXTEND CONDUITS TO THIS LOCATION.
2. DETAILS ABOVE MAY NOT BE REPRESENTATIVE OF SPECIFIC DOOR SWING DIRECTION. MIRROR DETAIL AS REQUIRED.
3. REFER TO ARCHITECTURAL DOOR HARDWARE GROUPS AND SPECIFICATION FOR COMPLETE INFORMATION.
4. PROVIDE DOUBLE GANG BACKBOX WITH SINGLE PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE SECURE CEILING WHEN IT IS NOT POSSIBLE TO MOUNT CARD READER ON FRAME.
5. REFER TO FLOOR PLANS FOR CARD READER LOCATIONS. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T5.00.

KEYNOTES: (#)

1. WHEN REQUIRED BY ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR PROPRITARY POWER SUPPLIES. MOUNT DOUBLE GANG OR LARGER BACKBOXES WITH BLANK COVER PLATES ABOVE ACCESSIBLE CEILING.
2. CONTRACTOR SHALL ROUTE MULTI-ELEMENT YELLOW SECURITY CABLE (WINDY CITY PART# 4461030-S OR APPROVED WEST PENN, GRAYBAR EQUAL) FROM EACH DOOR WITH ACCESS CONTROL TO AREA SERVING TELECOM ROOM. COIL 15' AT EACH END AND LABEL.

CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE ON T7.00 FOR CREDENTIAL READER TYPE INFORMATION.

		CREDENTIAL READER		INTEGRATION														REQUEST TO EXIT				DOOR HARDWARE										OTHER			
DOOR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	REMOTE UNLOCK VIA INTERCOM	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	WIRELESS	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	INFANT PROTECTION	REMOTE UNLOCK VIA INTERCOM MASTER	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	REMOTE PUSH BUTTON OVERRIDE	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR MAGNETIC POSITION SWITCH	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	NOTES
1000.1	•	CR1	No																																
1000.2	•	CR1	No																																
1000.3	•	N/A	No																																
1000.4	•	N/A	No																																
1000.5	•	CR1	No																																
1001.1	•	CR1	No																																
1001.2	•	N/A	No																																
1001.3	•	N/A	No																																
1001.4	•	CR1	No																																
1001.5	•	CR1	No																																
1001.6	•	N/A	No																																
1001.7	•	CR1	No																																
1002	•	CR1	No																																
1003.1	•	CR1	No																																
1004.1	•	CR1	No																																
1005	•	CR1	No																																
1007	•	CR1	No																																
1008	•	CR1	No																																
1009	•	CR1	No																																
1011.1	•	CR1	No																																
1011.3	•	CR1	No																																
1012	•	CR1	No																																
1013.1	•	CR1	No																																
1013.3	•	CR1	No																																
1014.2	•	N/A	No																																
1014.3	•	N/A	No																																
1015.2	•	N/A	No																																
1015.2	•	N/A	No																																
1016.2	•	N/A	No																																
1100.1	•	CR1	No																																
1100.2	•	N/A	No																																
1100.3	•	N/A	No																																
1100.4	•	N/A	No																																
1101.1	•	CR1	No																																
1101.3	•	N/A	No																																
1101.4	•	CR1	No																																
1102A	•	CR1	No																																
1106	•	CR1	No																																
1108A.1	•	CR1	No																																
1108A.2	•	CR1	No																																
1108C	•	CR1	No																																
1109.1	•	N/A	No																																
1109.2	•	CR1	No																																
1113	•	CR1	No																																
1114	•	CR1	No																																
1115	•	CR1	No																																
1116	•	CR1	No																																
1117.1	•	CR1	No																																
1118.2	•	N/A	No																																

CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE ON T7.00 FOR CREDENTIAL READER TYPE INFORMATION.

		CREDENTIAL READER		INTEGRATION														REQUEST TO EXIT				DOOR HARDWARE										OTHER			
DOOR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	REMOTE UNLOCK VIA INTERCOM	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	WIRELESS	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	INFANT PROTECTION	REMOTE UNLOCK VIA INTERCOM MASTER	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	REMOTE PUSH BUTTON OVERRIDE	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR MAGNETIC POSITION SWITCH	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	NOTES
1119	•	CR1	No																																
2000	•	CR1	No																																
2001.1	•	CR1	No																																
2001.2	•	CR1	No																																
2001A	•	CR1	No																																
2002.1	•	CR1	No																																
2002.2	•	CR1	No																																
2003	•	CR1	No																																
2004	•	CR1	No																																
2005	•	CR1	No																																
2007	•	CR1	No																																
2008	•	CR1	No																																
2009	•	CR1	No																																
2010	•	CR1	No																																
2011	•	CR1	No																																
2012	•	CR1	No																																
2013	•	CR1	No																																
2014	•	CR1	No																																
2015	•	CR1	No																																
2016	•	CR1	No																																
2017	•	CR1	No																																
2018	•	CR1	No																																
2019	•	CR1	No																																
2020	•	CR1	No																																
2021	•	CR1	No																																
2023	•	CR1	No																																
2024	•	CR1	No																																
2025	•	CR1	No																																
2102	•	CR1	No																																
2103	•	CR1	No																																
2105	•	CR1	No																																
DNS	•	N/A	No																																

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
TECHNOLOGY RISER DIAGRAMS

SHEET NUMBER:
T5.00

KJWW ENGINEERING CONSULTANTS
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PROJECT #: 14.0454.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
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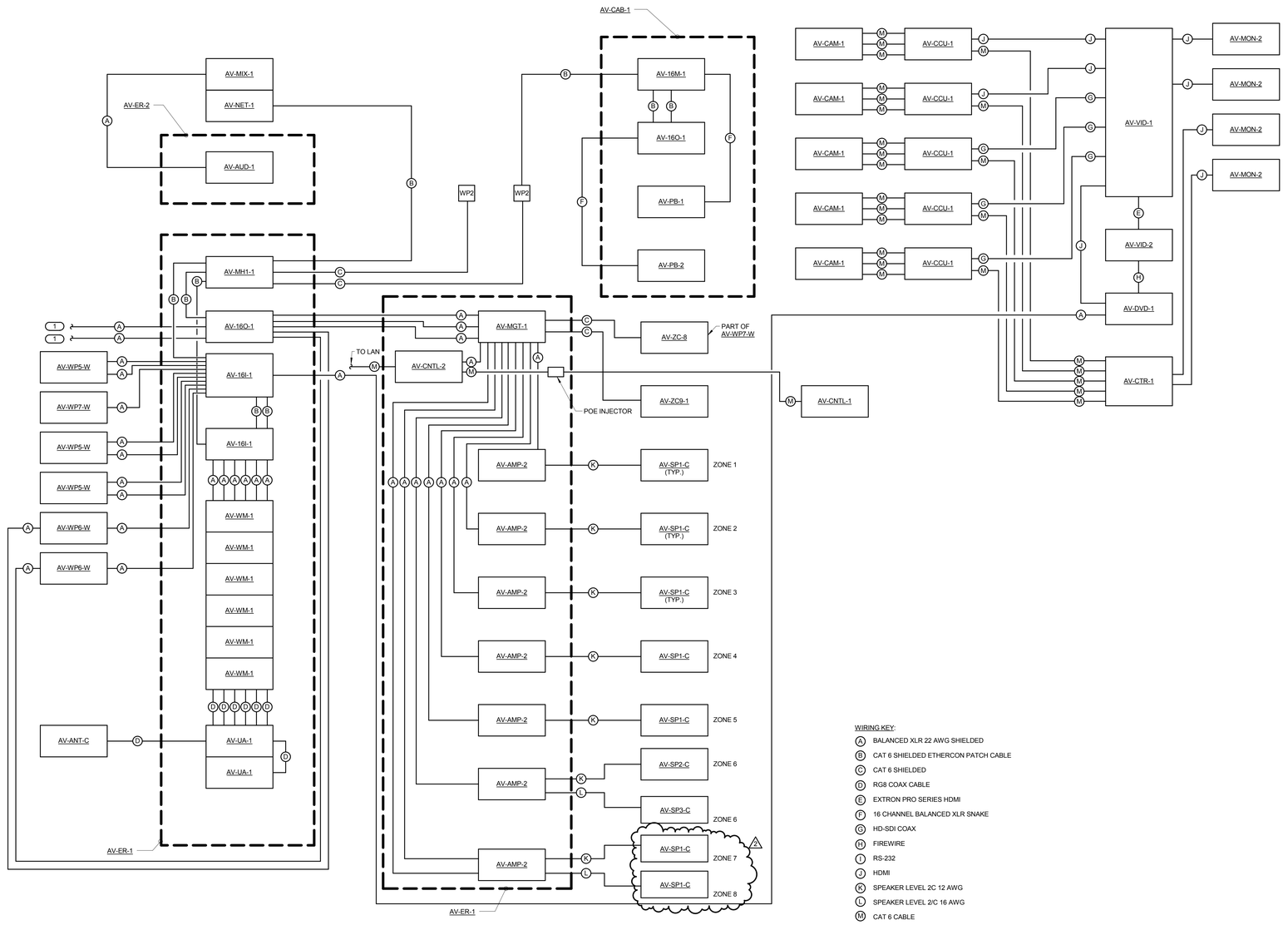


1 FIELD HOUSE AV FLOW DIAGRAM

NO SCALE

NOTES:

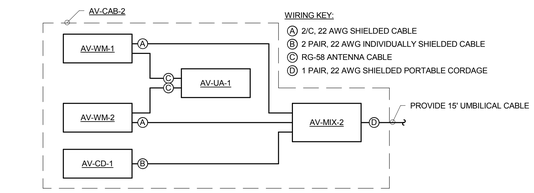
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
2. REFER TO T7.00 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. ROUTE AUDIO FEED TO PRESENTATION ROOMS 2001/2002 REFER TO T1.21 FOR LOCATION OF CLASSROOMS.

WIRING KEY:

- (A) BALANCED XLR 22 AWG SHIELDED
- (B) CAT 6 SHIELDED ETHERCON PATCH CABLE
- (C) CAT 6 SHIELDED
- (D) RG8 COAX CABLE
- (E) EXTRON PRO SERIES HDMI
- (F) 16 CHANNEL BALANCED XLR SNAKE
- (G) HD-SDI COAX
- (H) FIREWIRE
- (I) RS-232
- (J) HDMI
- (K) SPEAKER LEVEL 2C 12 AWG
- (L) SPEAKER LEVEL 2/C 16 AWG
- (M) CAT 6 CABLE

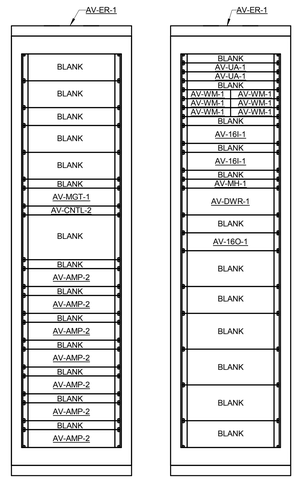


2 SCORER'S TABLE AV RISER DIAGRAM

NO SCALE

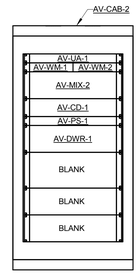
NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



3 FIELDHOUSE AV SYSTEM RACK ELEVATION

1" = 1'-0"



4 SCORER'S TABLE AV RACK ELEVATION

1" = 1'-0"

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DKA PROJECT NO: 14-004

KEY PLAN:

SHEET STATUS: 7/17/15
BID PACKAGE 2
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	08/06/15

SHEET TITLE:
TECHNOLOGY FLOW DIAGRAM

SHEET NUMBER:
T6.00

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EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	CARD READER ROUGH-IN. FLUSH MOUNT ON WALL OR AS NOTED ON PLANS. ALL SECURITY ROUGH-INS SHALL HAVE (1) 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. APPROPRIATE COVERPLATE, AND (1) 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. HEADEND EQUIPMENT AND CONNECTIONS FOR ACCESS CONTROL SHALL BE LOCATED IN HC-1. CARD READER ROUGH-IN SHALL BE MOUNTED AT 42" A.F.F. REFER TO 1/T5.00 FOR DOOR ROUGH-IN DETAIL FOR MORE INFORMATION.	ROUGH-IN ONLY
AC-CSS	ACCESS CONTROL SECURITY SYSTEM ROUGH-IN. REFER TO 1/T5.00 FOR DOOR ROUGH-IN DETAIL FOR MORE INFORMATION.	ROUGH-IN ONLY
AV-16I-1	A-NET INPUT MODULE, PROVIDES 16 BALANCED LINE LEVEL ANALOG INPUTS TO A PRO 64 AUDIO NETWORK OR DIGITAL SNAKE. REQUIRES (2) 1.75" MOUNTING SPACES.	AVIOM 6416I NO SUBSTITUTION
AV-16M-1	A-NET MICROPHONE INPUT MODULE, REMOTE CONTROLLABLE 16 CHANNEL MICROPHONE PREAMP FOR PRO 64 NETWORK, PROVIDES 16 XLR INPUTS INCLUDING PHASE, LOW CUT FILTER, PAD AND +48 V PHANTOM POWER. REQUIRES (3) 1.75" MOUNTING SPACES.	AVIOM 6416M NO SUBSTITUTION
AV-16O-1	A-NET OUTPUT MODULE, PROVIDES 16 BALANCED MICROPHONE OR LINE LEVEL ANALOG OUTPUTS FROM A PRO 64 NETWORK. SELECTABLE OUTPUT LEVELS OF +24 dBu, +18 dBu, +4 dBu AND MICROPHONE LEVEL OR X LR'S. REQUIRES (2) 1.75" MOUNTING SPACES.	AVIOM 6416O V. 2 NO SUBSTITUTION
AV-ALS-1	ASSISTIVE LISTENING SYSTEM, ADA STANDARD STATIONARY RF SYSTEM, INCLUDES (1) ONE RF TRANSMITTER 72 OR 216MHZ, (1) ONE UNIVERSAL REMOTE MOUNT ANTENNA KIT AV-ANT-2, (1) ONE UNIVERSAL RACK MOUNTING KIT, (4) FOUR PORTABLE RF RECEIVERS 72 AND 216MHZ, (4) FOUR EAR SPEAKERS, (2) TWO NECK LOOPS, (1) ASSISTIVE LISTENING NOTIFICATION SINAGE. PROVIDE ADDITIONAL RECEIVERS, SPEAKERS AND NECK LOOPS AS REQUIRED BASED ON SEATING CAPACITY, REFER TO SPECIFICATION SECTION 27 41 00 FOR ADDITIONAL INFORMATION. PROVIDE 4" SQUARE BOX WITH SINGLE GANG RING AND 3/4" EMT CONDUIT TO AV-ER-3, FOR AV-ANT-2.	LISTEN TECHNOLOGIES TRANSMITTER LT-800 RECEIVER LR-400 EAR SPEAKER LA-164 NECK LOOP LA-166 ANTENNA KIT LA-122 RACK KIT LA-326 WILLIAM SOUND
AV-AMP-1	200 WATT / 70 VOLT AMPLIFIER, FREQUENCY RESPONSE 100 HZ TO 20 KHZ. MOUNT IN RACK. COMPACT SINGLE CHANNEL POWER AMPLIFIER, ENERGY STAR QUALIFIED, TRANSFORMER ISOLATED OUTPUT, HIGH-EFFICIENCY CLASS D TOPOLOGY, CONVECTION COOLED, BALANCED LINE OUTPUT VIA TERMINAL BLOCK. BUILT IN STEREO TO MONO SUMMING ELECTRONIC SHORT CIRCUIT AND PROTECTION OVERLOAD, SIMPLE VOLUME, BASS AND TREBLE ADJUSTMENTS.	EXTRON XPA 2001 NO SUBSTITUTION
AV-AMP-2	AMPLIFIER 2 CHANNEL, DIRECT CONSTANT VOLTAGE (70 V / 100 V / 140 V / 200 V) OR LOW IMPEDANCE (2 / 4 / 8 / OHM) OPERATION, SWITCHABLE HIGH PASS FILTER FOR EACH CHANNEL, AB + B OUTPUT TOPOLOGY, 105 DB SIGNAL TO NOISE, < 0.1 % THD, 2 RU CHASSIS WITH +20 dBu MAX INPUT LEVEL.	CROWN CDI 6000 QSC
AV-ANT-1	ROOF MOUNTED HDTV ANTENNA. PROVIDE WITH 1-1/2" 10' MAST. PROVIDE 1-1/2" WEATHER HEAD. COORDINATE ROOF LOCATION WITH ARCHITECT. PROVIDE (1) 1-1/2" CONDUIT TO HC-1. PROVIDE WITH ROHN JMR-23855 NON-PENETRATING BALLAST ROOF MOUNT AND (12) CONCRETE BLOCKS.	WINEGARD HD7696P CHANNEL MASTER RCA
AV-ANT-2	REMOTE MOUNT ANTENNA KIT. PROVIDE WITH TWO CEILING MOUNT BRACKETS AND 1/2 WAVE ANTENNA.INSTALL IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON PLANS.	SHURE UA 864US AUDIX SENNHEISER
AV-ANT-C	REMOTE MOUNT ANTENNA KIT. PROVIDE WITH TWO CEILING MOUNT BRACKETS AND 1/2 WAVE ANTENNA.INSTALL IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON PLANS.	SHURE UA 864US AUDIX SENNHEISER
AV-AUD-1	SOLID STATE AUDIO PLAYER, PROVIDES PLAYBACK FROM BOTH SD/SDMC CARDS AND EXTERNAL USB CONNECTED MEDIA (HDD OR FLASH).	DENON DN-F300 MARANTZ
AV-CAB-1	PORTABLE RACK WITH MIXER TOP, PROVIDES (12) TWELVE 19" W RACK SPACES ON TOP FOR MIXING CONSOLE, AND (16) SIXTEEN 19" W RACK SPACES FRONT FOR OUT BOARD EQUIPMENT. RACK INCLUDES CASTERS.	RAXXESS ECR-12/16ST NO EQUAL
AV-CAB-2	FULLY WELDED 16-GAUGE PORTABLE RACK WITH (21) RACK UNITS AND SOLID LOCKING FRONT DOOR. 4" LOCKING CASTERS, RUBBER PADDED SPRING LOADED RECESSED HANDLES AND 500 POUND WEIGHT CAPACITY. CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT STORAGE LOCATION FOR RACK.	MIDDLE ATLANTIC PTRK-21 ATLAS LOWELL
AV-CAB-3	7 RU WALL MOUNTED EQUIPMENT CABINET WITH LOCKING FRONT DOOR. PROVIDE WITH SC-PS-1 POWER STRIP AND MOUNTING SHELVES FOR POWER SUPPLIES.	MIDDLE ATLANTIC SBX-7 LOWELL ATLAS
AV-CAM-1	WALL MOUNTED ROBOSHOT 30 HD PTZ PROFESSIONAL VIDEO CAMERA WITH 30X AND TRI-SYNCHRONOUS MOTION. PROVIDE WITH QUICK CONNECT CCU (AV-CCU-1) AND THIN PROFILE WALL MOUNT. PROVIDE 4" SQUARE WITH DOUBLE GANG RING AND 3/4" CONDUIT TO AV-ER-1.	VADDIO 999-9917-00 535-2000-240 NO SUBSTITUTION
AV-CD-1	RACK MOUNTED CD/NETWORK PLAYER WITH (2) USB INPUTS, DIGITAL COAXIAL INPUT AND TOS OPTICAL INPUT, ALONG WITH BALANCED OUTPUT.	TASCOM CD-240 DENON
AV-CNTL-1	WALL MOUNTED WIRED 7" WIDESCREEN ACTIVE-MATRIX COLOR TOUCH SCREEN. POE NETWORK POWERED. INCLUDE BB710M BACKBOX. PROVIDE 3/4" EMT CONDUIT TO AV-ER-1 OR AV-ER-3. COORDINATE COLOR WITH ARCHITECT. PROVIDE WITH XTP PI 100 POE POWER INJECTOR.	EXTRON TMP PRO 720M NO SUBSTITUTION
AV-CNTL-2	CONTROL PROCESSOR WITH LINK LICENSE, (2) BI-DIRECTIONAL RS-232 PORTS, ONE BI-DIRECTION RS-232/R2-422/RS-485 SERIAL PORT, (2) IR/SERIAL PORTS, (4) RELAYS, ETHERNET MONITORING AND CONTROL AND INTEGRATED 3 PORT NETWORK SWITCH. PROVIDE WITH RACK MOUNT KIT.	EXTRON PCP PRO 350 NO SUBSTITUTION
AV-CTR-1	AV PRECISION CAMERA CONTROLLER WITH INTEGRAL JOYSTICK AND SEVEN CAMERA CONTROL PORTS, ON-BOARD PRESETS, CCU EXPOSURE AND COLOR CONTROL FUNCTIONS WITH EXTERNAL CONTROL CAPABILITY.	VADDIO 999-5700-00
AV-DVD-1	HD / BLU-RAY / DVD WITH 500 GB INTERNAL HD, SD, SDMC AND SLOT, PROVIDES HDMI 1.3A OUTPUT, COMPOSITE, COMPONENT AND S-VIDEO AND OPTIONAL DIGITAL OUTPUTS. INCLUDES RS-232 SERIAL CONTROL PORT. 19" W X 3.5" H. REQUIRES (2) 1.75" MOUNTING SPACES.	TASCAM BD-R2000 DENON MARANTZ
AV-DWR-1	HEAVY DUTY 3RU STORAGE DRAWER WITH FULLY ENCLOSED TOP, 50 POUND WEIGHT CAPACITY AND INSTALLED KEY LOCK.	MIDDLE ATLANTIC D3LK LOWELL ATLAS
AV-ER-1	AV CABINET 44 RU WITH SIDES, AND LOCKING FRONT AND REAR DOORS.	MIDDLE ATLANTIC MRK-4426AV
AV-ER-2	DESKTOP EQUIPMENT RACK, 10-1/2" RACK HEIGHT WITH EIA 19" WIDE MOUNTING RAILS BOTH FRONT AND REAR, 6 RU MOUNTING SPACE WITH 18" DEPTH AT THE BOTTOM AND 15.9" MOUNTING DEPTH AT THE TOP. OVERALL DIMENSIONS 22" W X 18" D X 12-3/4" H.	MIDDLE ATLANTIC 2-6M COPPER B LINE WINSTED
AV-ER-3	FLOOR MOUNTED EQUIPMENT RACK WITH 16 RU, SIDE PANELS AND FRONT AND REAR DOORS. PROVIDE WITH SURGE SUPPRESSION AC POWER STRIPS TO ACCOMMODATE ALL RACK MOUNTED EQUIPMENT.	MIDDLE ATLANTIC EWR-16-22SD ATLAS LOWELL
AV-FP-1	CUSTOM FLOOR INPUT/OUTPUT PLATE MOUNTED IN FSR FL-500P-4 WITH FL-500P-SLD COVER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. AV CONTRACTOR TO PROVIDE ALL CONNECTIUONS REQUIRED FOR REMOVAL OF THE PODIUM(S) IN EACH OF THE TRAINING ROOMS. PROVIDE (1) 1-1/2"C AND (1) 1" C TO ACCESSIBLE CEILING FROM EACH FLOOR BOX.	FSR FL-500P-4 WITH FL-500P-SLD
AV-MGT-1	LOUD SPEAKER MANAGEMENT SYSTEM, PROVIDES FULL BANDPASS FILTER CROSSOVERS AND ROUTING CONFIGURATIONS, 31 BAND GRAPHIC EQ AND 9 BAND PARAMETRIC EQ, DRIVER ALIGNMENT DELAYS AND QVGA DISPLAY.	DBX DRIVERACK 4820 NO SUBSTITUTION
AV-MH-1	A-NET MERGER HUB, PROVIDES IO PORTS OF BIDIRECTIONAL PARALLEL CONNECTIONS IN A PRO 64 NETWORK, DISTRIBUTES AND MERGES UP TO 10 PRO 64 STREAMS ON ETHERCON CONNECTORS. REQUIRES (1) 1.75" MOUNTING SPACES.	AVIOM MH10 NO SUBSTITUTION
AV-MIX-1	MIXING CONSOLE. 16 MIC/LINE INPUT 32 CHANNEL COMPACT CONSOLE. PROVIDES 32 MONO PLUS 4 STEREO MIXING CHANNELS WITH 16 GROUP MIX BASSES AND 16 AUX MIX BASSES, 8 MATRIX AND STEREO OR MONO MAIN MIX OUTPUT. INCLUDES ONE MINI - YGDAI EXPANSION SLOT WITH 16 IN/OUT AND 24 BIT AD/DA CONVERSION. PROVIDE WITH RKI RACK MOUNT KIT.	YAMAHA LS9-16 NO SUBSTITUTION
AV-MIX-2	RACK MOUNTED 12 CHANNEL MIXER WITH (8) MIC/LINE INPUTS AND (2) STEREO BALANCED LINE INPUTS, 60MM FADERS, 10 SEGMENT LED STEREO METERS, 2 BAND HIGH/LOW SHELVING EQ PER CHANNEL, POWER AND PHANTOM POWER LED'S.	ALESIS MULTIMIX 12R BEHRINGER RX 1202FX SOUNDCRAFT EFX12
AV-MNT-1	PROJECTOR MOUNT AND BRACKET WITH #30 KEY LOCK.	BMS LCD LOC II NO SUBSTITUTION
AV-MNT-2	TILT WALL MOUNT BRACKET FOR 55" DISPLAY. PROVIDE WITH +15/-5 DEGREES OF TILT AND FIXED TILT LOCK WITH 5 DEGREE INCREMENTS. PROVIDE WITH SECURITY LOCK. CONTRACTOR TO PROVIDE THIS MOUNT FOR ALL OWNER FURNISHED DISPLAYS AND DIGITAL SIGNAGE MONITORS.	PEERLESS STX645L CHIEF PREMIER
AV-MON-1	OWNER FURNISHED CONTRACTOR INSTALLED. 55" VIDEO DISPLAY.	
AV-MON-2	32" CEILING MOUNTED COMMERCIAL GRADE VIDEO DISPLAY. DISPLAY SHALL HAVE AT MINIMUM (3) HDMI INPUTS, (1) VGA WITH AUDIO INPUT AND (1) USB PORT. PROVIDE PEERLESS MODEL PC932A, CEILING MOUNT BRACKET FOR DISPLAYS. COORDINATE WITH EQUIPMENT IN AV CONTROL ROOM 1102A AND ARCHITECT.	NEC E325 PANASONIC SAMSUNG
AV-NET-1	A-NET INTERFACE CARD, 16 X 16 PRO 64 CARD FOR YAMAHA DIGITAL MIXERS. PROVIDES UP TO 16 CHANNELS IN AND 16 CHANNELS OUT SIMULTANEOUSLY. SUPPORTS REMOTE CONTROL OF 6416M MIC PREAMPS.	AVIOM 6416Y2 NO SUBSTITUTION
AV-PB-1 AV-PB-2	MODULAR PATCH BAY, SUPPORTS UP TO 16 MODULES, MOUNTS WITHIN EIA 19" WIDE 1 RU RACK SPACE. PROVIDE WITH (16) SIXTEEN (28-XF-XM) PB28 MODULES. COORDINATE CONNECTOR REQUIREMENTS WITH OWNER.	AVIOM PB28 NO SUBSTITUTION
AV-PRO-2	VIDEO PROJECTOR.	OWNER FURNISHED CONTRACTOR INSTALLED

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AV-PS-1	RACK MOUNTED AC POWER STRIP WITH SURGE PROTECTION. UNIT SHALL ACCOMMODATE 20 AMPS AND PROVIDE AT LEAST (9) OUTLETS ON THE BACK AND (1) ON THE FRONT.	MIDDLE ATLANTIC PD-920R-SP LOWELL SURGEX
AV-RCV-1	DIGITAL MEDIA RECEIVER. MOUNT AT PROJECTOR. PROVIDES (1) HDMI OUTPUT. PROVIDE ALL CABLES REQUIRED FOR INSTALLATION AND OPERATION.	EXTRON DTP HDMI 4K 230 RX NO SUBSTITUTION
AV-RCV-2	DIGITAL MEDIA RECEIVER WALL PLATE. MOUNT BEHIND MONITOR. PROVIDES (1) HDMI OUTPUT. PROVIDE ALL CABLES REQUIRED FOR INSTALLATION AND OPERATION. PROVIDE 4" SQUARE BOX WITH DOUBLE GANG VERTICAL RING AND 3/4" CONDUIT TO ACCESSIBLE CEILING OR TO FLOOR BOX. COORDINATE COLOR WITH ARCHITECT.	EXTRON DTP HDMI 4K 230D RX NO SUBSTITUTION
AV-S1-C	SELF AMPLIFIED SPEAKER SYSTEM CONSISTING ON (1) MASTER SPEAKER WITH AMPLIFIER AND (3) SLAVE SPEAKERS.	OWI AMP1SGRN4
AV-S3-C	SELF AMPLIFIED SPEAKER SYSTEM CONSISTING ON (1) MASTER SPEAKER WITH AMPLIFIER AND (1) SLAVE SPEAKER.	OWI AMP1SGRN2
AV-SP1-C	PERFORMANCE AUDIO SPEAKER, CEILING MOUNTED. FULL RANGE 12 INCH TWO WAY, 1-INCH DH3/2010A. TITANIUM HF COMPRESSION DRIVER, 100 X 100 CONSTANT DIRECTIVITY HORN. 300 WATT CONTINUOUS POWER HANDLING, 1200W PEAK, 12" WOOFER, 50-20KHz FREQUENCY RESPONSE, 99dB 1W/1M. PROVIDE WITH MB200 MOUNTING BRACKET.	JBL AM 5212/00
AV-SP2-C	FULL RANGE PENDANT SPEAKER WITH SILK DOME TWEETER FOR HIGH FIDELITY SOUND QUALITY. 58 HZ-18 KHZ FREQUENCY RESPONSE, 90 dB SENSITIVITY, 120 DEGREE COVERAGE ANGLE, 8 OHMS RATED IMPEDANCE, 60W MULTI TAPTRANSFORMER WITH 7.5 W, 15W, 30W AND 60W. AVAILABLE IN BLACK OR WHITE COLOR.	JBL CONTROL 67P/T NO SUBSTITUTION
AV-SP3-C	COAXIALLY MOUNTED 6.5 IN WOOFER WITH BUTYL RUBBER SURROUND AND ¾ IN TITANIUM COATED DIFFRACTION-LOADED TWEETER. HIGH POWER, WIDE FREQUENCY RESPONSE AND LOW DISTORTION FOR HIGH SOUND LEVEL CAPABILITY AND BUILT IN 70.7 / 100 VOLT TRANSFORMER WITH SELECTABLE TAPS, VIA ROTARY SWITCH WITH INTEGRATED BACKCAN.	JBL CONTROL 26 C/T TANNOY E-V
AV-SW-1	MEDIA PRESENTATION SWITCH. HIGH DEFINITION MULTI MEDIA SWITCHER, MIC MIXER, AUDIO DSP, AMPLIFIER AND CONTROL SYSTEM. ABILITY TO HANDLE RGB, COMPOSITE, S-VIDEO, COMPONENT AND STEREO AUDIO ANALOG SOURCES. HDMI, DVI, DISPLAY PORT MULTIMODE, HO BASE T AND SPDIF DIGITAL SOURCES. MATRIX ROUTING 8 X 4. PROVIDE DIGITAL MEDIA RECEIVER AS NECESSARY TO ACCOMMODATE QUANTITY OF DIGITAL MEDIA INPUTS SHOWN ON FLOOR PLANS.	EXTRON DTP CROSSPOINT IPCP MA70 (60-1368-13A) NO SUBSTITUTION
AV-TV-MNT	PROVIDE WALL MOUNTED ARM AND ACCESSORIES FOR HORIZONTAL MOUNTING OF DUAL 55" MONITORS. COORDINATE WITH ARCHITECT FOR CONNECTION TO BUILDING STRUCTURE. VERIFY DIMENSIONS OF OWNER FURNISHED MONITOR PRIOR TO ORDERING MOUNTING HARDWARE.	PEERLESS HORIZONTAL ARM WMJ022 EXTENSION COLUMN EXT102 BACK TO BACK BOX PLB-1 UNIVERSAL ADAPTOR BRACKET PLP-UNL
AV-TX-1	PROVIDES A REMOTE INPUT CONNECTION FOR HDMI AND RGB SOURCES AS PART OF A COMPLETE DIGITALMEDIA SYSTEM. CONNECTS TO THE INPUT OF A DTP SWITCHER OR RECEIVER VIA DM 8G CABLE OR CAT5E. INCLUDES A USB HID DEVICE PORT, ALLOWING A MOUSE/KEYBOARD TO BE CONNECTED FOR CONTROLLING A COMPUTER OR OTHER HOST DEVICE AT A DIFFERENT LOCATION.	EXTRON DTP HDMI 4K 230 TX NO SUBSTITUTION
AV-UA-1	WIRELESS MICROPHONE ANTENNA DISTRIBUTION SYSTEM.	SHURE UA 844-SWB
AV-VC1-W	VOLUME CONTROL WITH 3.5MM INPUT. PROVIDE 4" SQUARE BOX WITH SINGLE GANG RING AND 3/4" CONDUIT TO ACCESSIBLE CEILING.	OWI AMPSTVCW
AV-VID-1	MULTI FORMAT VIDEO SWITCHER, PROVIDES (8) EIGHT INPUTS (4 SDI / HDSDI / COMPOSITE, 4 DVI / HDMI / RGB / COMPONENT), (6) SIX OUTPUTS (2 SDI / HDSDI, 2 DVI-D / HDMI / RGB / COMPONENT). PROVIDE RACK MOUNT KIT AS REQUIRED.	ROLAND V-800HD
AV-VID-2	AUDIO / VIDEO CONVERTER, SUPPORTS HDMI, COMPONENT, COMPOSITE AND S-VIDEO WITH ANALOG OR DIGITAL AUDIO. PROVIDES THREE SIMULTANEOUS OUTPUTS THROUGH IEEE 1394, USB AND FIVE EVENT VIDEO ENCODING / STREAMING.	ROLAND VC-30HD AUDIX SENNHEISER
AV-VPS-1	CEILING MOUNTED RECESSED ELECTRIC VIDEO PROJECTION SCREEN, TENSIONED ADVANTAGE ELECTROL, 113 INCH DIAGONAL, 16X10 FORMAT DA-MAT SURFACE WITH BUILT IN LOW VOLTAGE CONTROL AND SILENT MOTOR.	DALITE 34538LS DRAPER STEWART
AV-VPS-2	CEILING MOUNTED RECESSED ELECTRIC VIDEO PROJECTION SCREEN, TENSIONED ADVANTAGE ELECTROL, 94 INCH DIAGONAL, 16X10 FORMAT DA-MAT SURFACE WITH BUILT IN LOW VOLTAGE CONTROL AND SILENT MOTOR.	DA LITE 34528LS DRAPER STEWART
AV-WIR-1	WIRELESS COLLABORATION GATEWAY, IEEE 802.11 b/g/n 3.4 GHz, UPTO 300 MBPS, (2) DUAL DIPOLE ANTENNA, COVERAGE UPTO 300 FT, PROTOCOL: TCP-IP, SNMP, SNTP/NTP. OUTPUT: (1) HDMI, (1) RGBHV, (1) DIGITAL AUDIO, (1) ANALOG STEREO. RJ-45 CONNECTOR, (3) HIGH SPEED USB. 100-240 VAC, 50-60 HZ. COMPLIES WITH 802.3	EXTRON SHARELINK 200 NO SUBSTITUTION
AV-WM-1	WIRELESS MICROPHONE SYSTEM, UHF WITH 1400 SELECTABLE FREQUENCIES. SYSTEM INCLUDES PROFESSIONAL DIVERSITY RECEIVER, HANDHELD TRANSMITTER, LAVALIERE CONDENSER MICROPHONE AND BODY PACK. PROVIDE SM58 MICROPHONE OPTION WITH HANDHELD TRANSMITTER. REQUIRES (1) 1.75" MOUNTING SPACES.	SHURE ULXS4 ULSX2/58 WL185 ULX1
AV-WM-2	WIRELESS MICROPHONE SYSTEM, UHF WITH 1400 SELECTABLE FREQUENCIES, SYSTEM INCLUDES PROFESSIONAL DIVERSITY RECEIVER, BODYPACK TRANSMITTER, HEADWORN CONDENSER MICROPHONE. REQUIRES (1) 1.75" MOUNTING SPACES.	SHURE ULXS14/30 AUDIX SENNHEISER
AV-WM-3	DUAL WIRELESS MICROPHONE SYSTEM, UHF WITH 1400 SELECTABLE FREQUENCIES. SYSTEM INCLUDES PROFESSIONAL (2) DIVERSITY RECEIVER, HANDHELD TRANSMITTER, LAVALIERE CONDENSER MICROPHONE AND BODY PACK. PROVIDE SM58 MICROPHONE OPTION WITH HANDHELD TRANSMITTER. REQUIRES (1) 1.75" MOUNTING SPACES.	SHURE ULXS4 ULSX2/58 WL185 ULX1
AV-WP1-C	4" SQUARE BOX WITH SINGLE GANG RING AND 3/4" EMT CONDUIT TO ACCESSIBLE CEILING SPACE FOR ASSISTIVE LISTENING ANTENNA.	
AV-WP1-F	DIGITAL MEDIA TRANSMITTER MOUNTED IN FLOOR BOX BELOW TABLE. PROVIDE 3/4" CONDUIT TO BEHIND AV-MON-1. THE UNIT SHALL PROVIDE SIMPLE SWITCHING BETWEEN TWO INPUTS, HDMI AND VGA. THE INPUTS CAN BE CONFIGURED TO SWITCH AUTOMATICALLY OR BE SELECTED THROUGH A CONTROL SYSTEM. THE UNIT WILL PERFROM AUTOMATIC AV SIGNAL FORMAT MANAGEMENT VIA EDID AND INCLUDE A USB HID KEYBOARD/MOUSE PORT.	EXTRON DTP T UWP 232D NO SUBSTITUTION
AV-WP1-W	PROVIDES A REMOTE WALL PLATE INPUT CONNECTION FOR HDMI AND RGB SOURCES AS PART OF A COMPLETE DIGITALMEDIA SYSTEM. CONNECTS TO THE INPUT OF A DTP SWITCHER OR RECEIVER VIA DM 8G CABLE OR CAT5E. INCLUDES A USB HID DEVICE PORT, ALLOWING A MOUSE/KEYBOARD TO BE CONNECTED FOR CONTROLLING A COMPUTER OR OTHER HOST DEVICE AT A DIFFERENT LOCATION. MOUNTS IN A DOUBLE-GANG ELECTRIC BOX. INSTALL AT OUTLET HEIGHT WITH 3/4" CONDUIT TO ACCESSIBLE CEILING.	EXTRON DTP T UWP 232D NO SUBSTITUTION
AV-WP2-W	CUSTOM DOUBLE GANG SS WALL PLATE WITH (2) NEUTRIK NC3FD SERIES AND (2) NC3MD SERIES CONNECTORS, INSTALL WITHIN 4" SQUARE BOX. PROVIDE (1) 1" CONDUIT TO AV-ER-1.	*
AV-WP3-W	AV WALL PLATE WALL, CUSTOM SINGLE GANG STAINLESS STEEL WALL PLATE WITH (2) NETWORK ETHERCON CONNECTOR, INSTALL WITHIN 4" SQUARE BACK BOX. PROVIDE (1) 1" CONDUIT BACK TO AV ROOM 1120 B	PROCO WPUBA1004 WITH ETHERCON
AV-WP4-W	AV WALL PLATE WALL, CUSTOM SINGLE GANG STAINLESS STEEL WALL PLATE WITH (2) NETWORK ETHERCON CONNECTOR, INSTALL WITHIN 4" SQUARE BACK BOX. PROVIDE (1) 1" CONDUIT BACK TO AV ROOM 1120 B	PROCO WPUBA1004 WITH ETHERCON
AV-WP5-W	CUSTOM DOUBLE GANG DECORA AV INPUT WALL PLATE WITH (1) NEUTRIK NC3FD XLR INPUT AND (1) 3.5MM AND DUAL RCA INPUTS WITH BALANCING TRANSFORMER. PROVIDE 4" SQUARE BOX WITH DOUBLE GANG RING AND 3/4" CONDUIT TO AV-ER-1. COORDINATE MOUNTING HEIGHT AND FINISH WITH ARCHITECT.	PROCO CUSTOM
AV-WP6-W AV-WP-6	AV WALL PLATE, WITH (1) NEUTRIK NC3FD AND (1) NEUTRIK NC3MD. INSTALL WITHIN 4" SQUARE BACK BOX WITH SINGLE GANG PLASTER RING, PROVIDE (1) ONE 1" CONDUIT ROUTED BACK TO AV ROOM 1102B FOR FIELD HOUSE AV SYSTEM.	PROCO WPBA1066 WHIRLWIND
AV-WP7-W	2 GANG DECORA AV INPUT PLATE WITH (1) 3.5MM AND DUAL RCA INPUTS WITH BALANCING TRANSFORMER AND VOLUME CONTROL. PROVIDE 4" SQUARE BOX WITH DOUBLE GANG RING AND 3/4" CONDUIT TO AV-ER-1. PROVIDE 2 GANG DECORA FACE PLATE. COORDINATE MOUNTING HEIGHT AND FINISH WITH ARCHITECT.	RDL D-CIJ3 & dBX ZC-8 NO SUBSTITUTION
AV-ZC9-1	WALL MOUNT ZONE CONTROLLER, PROVIDES COMPUTER PROGRAMMABLE ROTARY POTENTIOMETER AND PUSH BUTTON CONTROL FOR VOLUME AND MUTE FUNCTION. INSTALL WITHIN 4" SQUARE BACKBOX WITH (1) ONE 1' CONDUIT ROUTED BACK TO AREA SERVING AV ROOM 1102B	DBX ZC-9
AV-ZC-8	WALL MOUNT ZONE CONTROLLER, PROVIDES COMPUTER PROGRAMMABLE ROTARY SWITCH FOR SOURCE SELECTION AND PUSH BUTTON CONTROL FOR VOLUME. INSTALL WITHIN 4" SQUARE BACKBOX WITH (1) ONE 1' CONDUIT ROUTED BACK TO AREA SERVING AV ROOM 1102B	DBX ZC-2
CC-C1-W	WIRELESS ANALOG CLOCK. 12"-16" ROUND. REQUIRES 115 VAC FOR POWER HAS THE ABILITY TO SYNC IN 5 MINUTES AUTOMATICALLY. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.	AMERICAN TIME AND SIGNAL SINGLE FACE SQ56BAAD304R DUAL FACE SQ93BADD204
CC-MCT-1	REMOTE CLOCK SYSTEM TRANSMITTER/CONTROLLER WITH 10 WATT OUTPUT, ETHERNET SYNC AND MAGNETIC MOUNT ANTENNA. FCC LICENSE PROVIDED WITH SYSTEM.	AMERICAN TIME AND SIGNAL SSQRTM-10A0E NO SUBSTITUTION
IC-EP-W	FULL DUPLEX EMERGENCY SPEAKERPHONE WITH (4) ACTIVE TOUCH BUTTONS INPUTS. DUAL CALL PROGRESS INDICATORS AND CONFORMAL COATED PCB FOR EMERGENCY COMMUNICATION. 3 MB MEMORY STORAGE. MESSAGE PLAYBACK OPTIONS, POWER OVER ETHERNET 12-24V ACIDC@400 MA WITH OPTIONAL BATTERY BACKUP. (1) 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING.	CODE BLUE IP5000 CB 6-P (ENCLOSURE) NO SUBSTITUTION
SC-ER-1	2 POST EQUIPMENT RACK, 45 RU, 84"H x 20.3"W, x 3"D, STANDARD 19" MOUNTING SPACE, #12-24 THREADED MOUNTING HOLES, DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENTS. 1000 lbs LOAD CAPACITY. UL LISTED.	PANDUIT R2P NO SUBSTITUTION
SC-FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, COMBINATION SHELF, 48 FIBER CAPACITY, SLIDE OUT RAILS TO FACILITATE FRONT ACCESS, JUMPER TROUGHS IN CONNECTOR PANELS TO REDUCE MOUNTING SPACE, PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANELS, LC CONNECTORS, COUPLINGS AND JUMPERS. REQUIRES (4) 1.75" MOUNTING SPACES.	PANDUIT FMRE4
SC-GND-1	WALL-MOUNT GROUND BAR. 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. PROVIDE UNIT CONFIGURED WITH SIXTEEN (16) SETS OF 5/16" HOLES SPACED 5/8" ON CENTER TO ACCOMMODATE "A" SPACED TWO-HOLE COMPRESSION LUGS AND THREE (3) SETS OF 7/16" HOLES SPACED 1" ON CENTER TO ACCOMMODATE "C" SPACED TWO-HOLE COMPRESSION LUGS. ANSI/EIA/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO 4/T4.00 FOR ADDITIONAL INFORMATION.	PANDUIT GB4B0612TPI-1 CHATSWORTH PRODUCTS ERICO HARGER
SC-HWM-1	HORIZONTAL WIRE MANAGEMENT, 3" X 3" RIGID FRONT FINGERS WITH FLEXIBLE RETENTION TABS, 2" X 5" FLEXIBLE REAR FINGERS. REMOVABLE FRONT COVER HINGES 180 DEGREES UP OR DOWN. INTEGRAL BEND RADIUS CONTROL. PASS THROUGH HOLES ALLOW FRONT TO REAR CABLING. REQUIRES (2) 1.75" MOUNTING SPACES.	PANDUIT WMPH2E NO SUBSTITUTION

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE TAG NAMES AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS,REFER INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR PIN CONFIGURATION. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR DETAILS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT 6" BEYOND BOX AND TERMINATE WITH A NYLON BUSHING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CMB).	COVERPLATE: PANDUIT CFP2IW JACK: PANDUIT (CAT6) CJ688TGIW
SC-IO-FB	INFORMATION OUTLET, FLOORBOX OR POKE-THROUGH MOUNT, 2, 4, 6-PORT COVERPLATE AS INDICATED ON DRAWINGS, REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR DETAILS. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR DETAILS. INSTALL INFORMATION OUTLET IN E.C. PROVIDED FLOORBOX. PROVIDE ADAPTER PLATE FOR 106-TYPE FACEPLATE WHERE REQUIRED. COORDINATE ADDITIONAL MOUNTING REQUIREMENTS WITH E.C. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CMB). INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CMB).	COVERPLATE: PANDUIT CFP2IW CFP4IW CFP6IW JACK: PANDUIT (CAT6) CJ688TGIW
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 2, 4-PORT COVERPLATE AS INDICATED ON DRAWINGS,REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR DETAILS. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T0.00 FOR DETAILS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CMB).	COVERPLATE: PANDUIT CFP2IW CFP4IW JACK: PANDUIT (CAT6) CJ688TGIW
SC-LR-1	LADDER RACK, 18" W TUBULAR STEEL CONSTRUCTION, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. U.L. LISTED.	HOMACO INC. TR10-18 CHATSWORTH PRODUCTS B-LINE
SC-MPP-1	MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	PANDUIT CAT 6: CPP48FMWBLY JACK: PANDUIT (CAT 6) CJ688TGBL
SC-PS-1	POWER STRIP, HORIZONTALLY MOUNTS IN A STANDARD EIA/TIA 19" RACK, (10) REAR RECEPTACLES, 125VAC/60Hz, PROVIDE WITH 10'-0" CORD. INTERNAL CIRCUIT BREAKER, U.L. LISTED. REQUIRES (1) 1.75" MOUNTING SPACE.	HUBBELL HPWPWR PANDUIT HOMACO INC. CHATSWORTH PRODUCTS TRIPP LITE
SC-RI-W	INFORMATION OUTLET ROUGH-IN (WALL). INSTALL 4" SQUARE WITH SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING.	*
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'6" A.F.F	*
SC-VWM-1	DUAL SIDE VERTICAL WIRE MANAGER, 83"H X 4.9"W X 12"D. INCLUDES HINGED COVERS, CABLE RETAINERS, MOUNTING BRACKETS AND #12-24 SCREWS. BLACK POWDER COATED.	PANDUIT WMPV45E
SC-WP-W	INFORMATION OUTLET, WALL PHONE. PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE. PROVIDE WITH STAINLESS STEEL FACEPLATE, MATING LUGS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING.	COVERPLATE: PANDUIT KWP6PY JACK: PANDUIT CAT 6 CJ688TGIW NO SUBSTITUTION
TV-AMP-1	BROADBAND DISTRIBUTION AMPLIFIER, 49-1000 MHZ FREQUENCY RANGE, +40 dBmV OUTPUT LEVEL, POWER DOUBLING CAPABILITY, ALUMINUM CHASSIS, WALL MOUNTED, BUILT-IN VARIABLE GAIN AND SLOPE CONTROLS WITH 10 dB GAIN CONTROL RANGE AND 8 dB SLOPE CONTROL RANGE, INPUT AND OUTPUT TEST PORTS, PROVIDES TEMPERATURE STABILITY, LINE TRANSIENT PROTECTION.	BLONDER TONGUE BIDA-100A-300 OR APPROVED EQUAL
TV-TVS-2	2-WAY SPLITTER, 10-1000 MHz FREQUENCY RANGE, IN-LINE, RF SHIELDING, MOUNTING TABS AND GROUNDING BLOCKS, DIE CAST HOUSING. OUTPUT LOSSES WILL VARY, PROVIDE PER INSTALLATION REQUIREMENTS.	BLONDER TONGUE SUV-2 OR APPROVED EQUAL
TV-TVT-4	4-WAY DIRECTIONAL COUPLER/TAP, 5-1000 MHz FREQUENCY RANGE, RF SHIELDING, DIE CAST HOUSING. ISOLATION OUTPUTS AND THRU-LINE LOSSES WILL VARY, PROVIDE PER INSTALLATION REQUIREMENTS.	BLONDER TONGUE SRT-4A OR APPROVED EQUAL

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KEY PLAN:

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REFERENCE SCALE IN INCHES
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SHEET TITLE:
TECHNOLOGY EQUIPMENT SCHEDULE

SHEET NUMBER:
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