

JOLIET JUNIOR COLLEGE

ROMEOVILLE CAMPUS EXPANSION

1125 135th ST. ROMEOVILLE, IL 60446

BID PACKAGE 1

ISSUED FOR BID

6/30/15

DKA PROJECT NO: 14-005



ARCHITECT:

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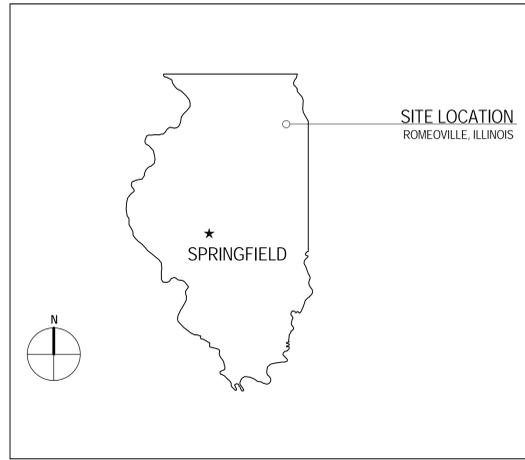
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ABBREVIATIONS

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

STATE LOCATION MAP



AREA MAP



SHEET INDEX

G1.00 SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES

- *A1.01 OVERALL PLAN - LEVEL 1
- *A1.02 OVERALL PLAN - LEVEL 2
- *A1.03 ALTERNATE BID #1 - PLANS, RCP, AND DETAILS

- S0.00 GENERAL NOTES
- S1.01 FOUNDATION PLAN - DIMENSIONAL
- S1.02 ALTERNATE BID #1 - PLANS, DETAILS
- S1.11 FOUNDATION PLAN - WEST
- S1.12 FOUNDATION PLAN - EAST
- *S1.21 SECOND FLOOR FRAMING PLAN - WEST
- *S1.22 SECOND FLOOR FRAMING PLAN - EAST
- *S1.23 SECOND FLOOR ROOF FRAMING PLAN
- *S1.31 ROOF FRAMING PLAN - WEST
- *S1.32 ROOF FRAMING PLAN - EAST
- *S1.41 HIGH ROOF FRAMING PLAN
- S2.00 FOUNDATION DETAILS
- *S2.01 FOUNDATION DETAILS
- *S2.02 STEEL DETAILS
- *S3.01 STEEL DETAILS

- *P1.01 UNDER FLOOR PLAN - WEST - PLUMBING
- *P1.02 UNDER FLOOR PLAN - EAST - PLUMBING

- *F0101 FOODSERVICE EQUIPMENT PLAN & SCHEDULE

* ALL SHEET NUMBERS THAT HAVE AN ASTERISK ARE ISSUED FOR REFERENCE ONLY



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SHEET STATUS: 6/30/15

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NO.	DESCRIPTION:	DATE:

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**SHEET INDEX,
 ABBREVIATIONS,
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SHEET NUMBER:

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FLOOR PLAN & SECTION SYMBOLS LEGEND:

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

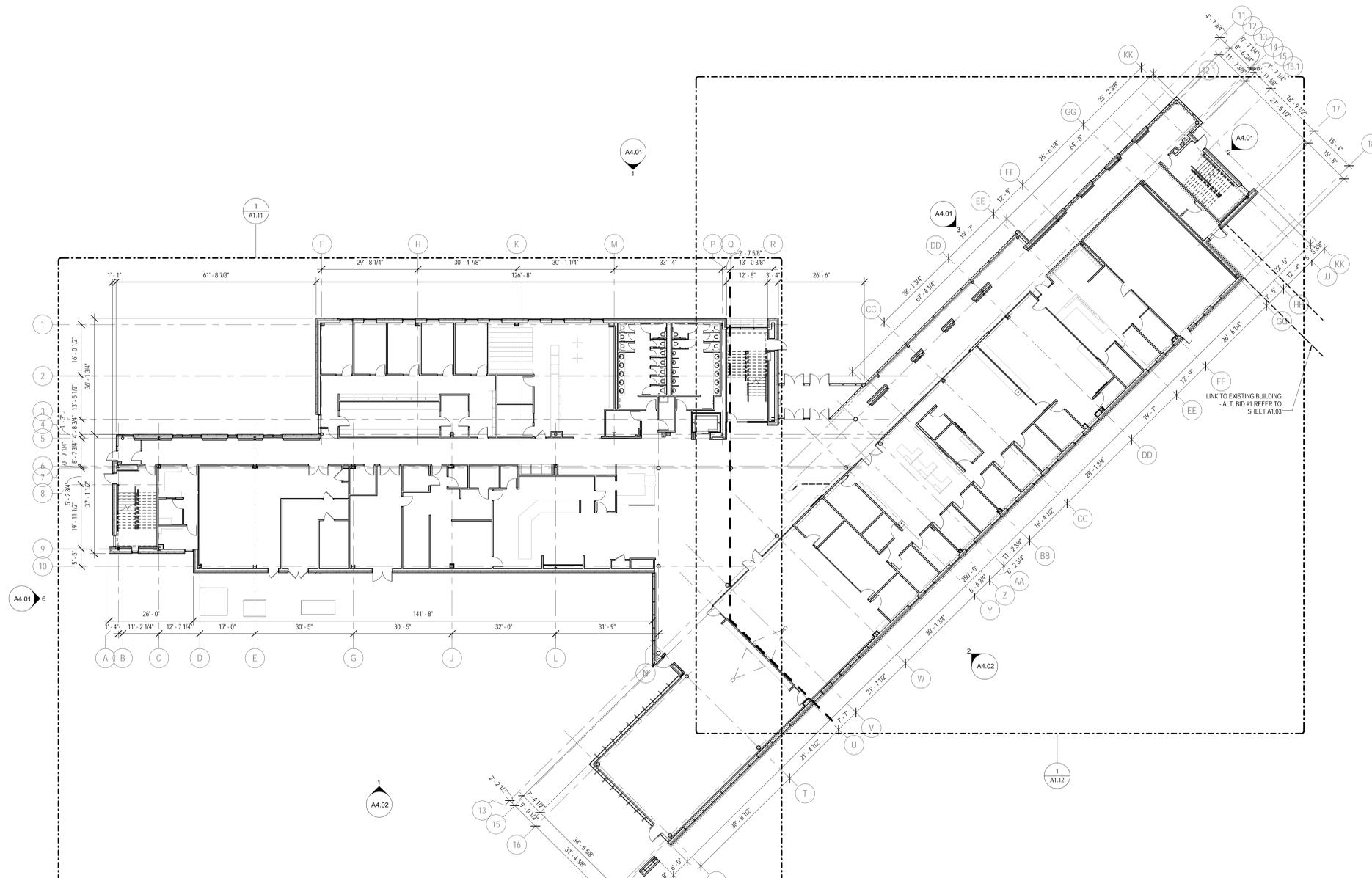
- ROOM NAME: [101] ROOM TAG
- DOOR / FRAME TAG: [XXXX]
- WINDOW TAG - REFER TO WINDOW ELEVATION SHEETS: [XX]
- PARTITION TYPE: [XX 2HR] PARTITION MODIFIERS - REFER TO A101
- PLAN AND SECTION DETAIL CALLOUT: [1 SIM XXXXX]
- SECTION CALLOUT: [1 SIM AXXX]
- ELEVATION CALLOUT: [1 A101 1]
- DATUM TAG: [ELEVATION]
- DISPLAY BOARD TYPE: [MB-4X6] SIZE
- NEW WORK REFERENCED NOTES: [1]
- DEMOLITION REFERENCED NOTES: [1]
- TOILET ACCESSORY TAG: [1]
- CASEWORK TAG: [11]
- EQUIPMENT TAG: [11]
- WALL MOUNTED PROJECTION SCREEN - C.F.C.I.
- CEILING MOUNTED PROJECTOR - O.F.C.I.

FLOOR PLAN GENERAL NOTES:

1. FINISH FLOOR ELEVATION OF 0'-0" = 471.8' USGS
2. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
3. REFER TO CODE PLANS ON SHEET A0.10 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
4. DO NOT SCALE DRAWINGS.
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
7. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
8. 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.
9. REFER TO A1001 FOR PARTITION SCHEDULE. ALL INTERIOR PARTITIONS SHALL BE TYPE STA. U.N.O. ALL GYP BD COLUMN ENCLOSURES SHALL BE TYPE SZC. U.N.O.
10. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

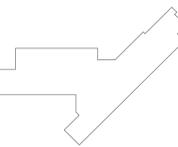
FLOOR PLAN REFERENCED NOTES:

1. GLASS GUARDRAIL SYSTEM
2. SLATWALL RETAIL DISPLAY MILLWORK ALONG THIS WALL
3. HIGH DENSITY SHELVING SYSTEM. COORDINATE RECESS IN SLAB FOR SUPPORT RAILS. REFER TO STRUCTURAL DRAWINGS
4. SLIDING GLASS BARN DOOR
5. FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS.
6. ALL WALLS THIS ROOM ARE FACED WITH PLYWOOD. REFER TO TECHNOLOGY DWGS FOR MORE INFORMATION
7. RECESSED CUP CABINET
8. VENDING MACHINES, N.I.C.
9. PLASTIC LAMINATE, 3-HIGH LOCKERS
10. WALL MOUNTED FLAT PANEL MONITOR - O.F.C.I.
11. RECESSED CABINET UNIT HEATER - REFER TO MECHANICAL DRAWINGS COORDINATE WITH ARCHITECT
12. PROVIDE BLOCKING IN WALL FOR OWNER FURNISHED, OWNER INSTALLED EVAC CHAIR
13. LEVEL 5 DRYWALL FINISH THIS WALL
14. SECURITY SHUTTER TRACK ABOVE
15. FIRE ALARM ANNUNCIATOR PANEL
16. CODE BLUE STATION
17. FIN TUBE RADIATOR BELOW. REFER TO MECHANICAL DRAWINGS
18. WALL MOUNTED ADA DOOR OPERATOR / PUSH PAD
19. RECESSED FIRE EXTINGUISHER CABINET



1 LEVEL 1 - OVERALL
 1/16" = 1'-0"
 TRUE NORTH

KEY PLAN:



SHEET STATUS: 6/30/15

BID PACKAGE 1
60% CONSTR. DOCS. -
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NO.	DESCRIPTION	DATE

SHEET TITLE:
OVERALL PLAN - LEVEL 1

SHEET NUMBER:
A1.01



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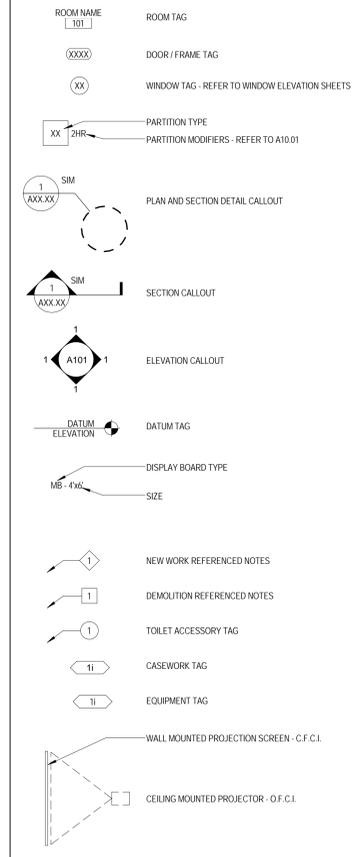
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FLOOR PLAN & SECTION SYMBOLS LEGEND:

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

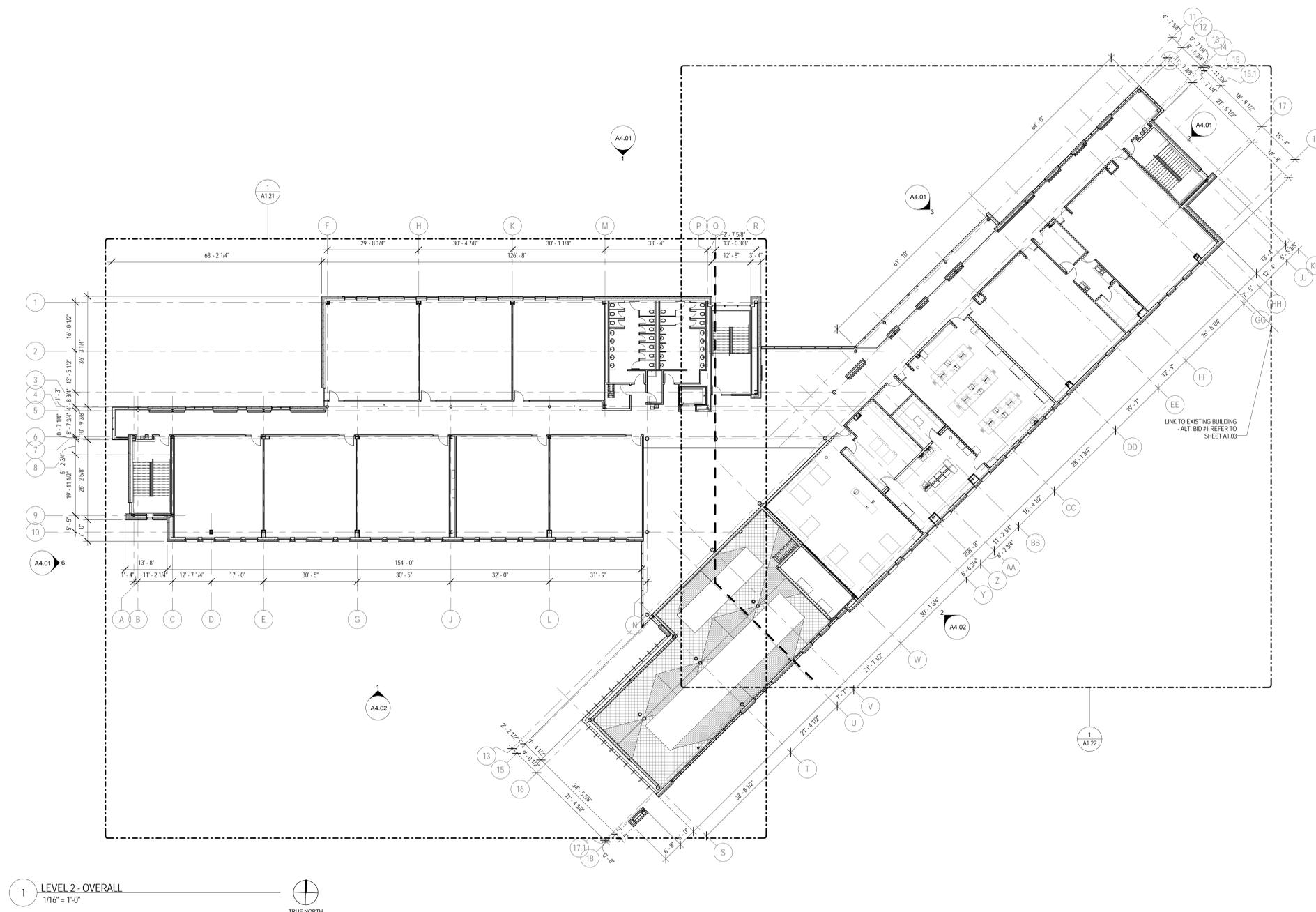


FLOOR PLAN GENERAL NOTES:

- FINISH FLOOR ELEVATION OF 0'-0" - 671.8' USGS
- ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
- REFER TO CODE PLANS ON SHEET A10 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
- DO NOT SCALE DRAWINGS.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
- NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
- 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. PANEL ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
- REFER TO A10.01 FOR PARTITION SCHEDULE. ALL INTERIOR PARTITIONS SHALL BE TYPE STA. U.N.O. ALL GYP BD COLUMN ENCLOSURES SHALL BE TYPE SOL. U.N.O.
- REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

- GLASS GUARDRAIL SYSTEM
- SLATWALL RETAIL DISPLAY MILLWORK ALONG THIS WALL
- HIGH DENSITY SHELVING SYSTEM. COORDINATE RECESS IN SLAB FOR SUPPORT RAILS. REFER TO STRUCTURAL DRAWINGS.
- SLIDING GLASS BARRI DOOR
- FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DWGS FOR MORE INFORMATION.
- RECESSED GUN CABINET
- VENDING MACHINES, N.C.
- PLASTIC LAMINATE, 3-HIGH LOCKERS
- WALL MOUNTED FLAT PANEL MONITOR - O.F.C.I.
- RECESSED CABINET UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- PROVIDE BLOCKING IN WALL FOR OWNER FURNISHED, OWNER INSTALLED EVAC CHAIR. COORDINATE WITH ARCHITECT.
- LEVEL 5 DRYWALL FINISH THIS WALL
- SECURITY SHUTTER TRACK ABOVE
- FIRE ALARM ANNUNCIATOR PANEL
- CODE BLUE STATION
- FIN TUBE RADIATOR BELOW. REFER TO MECHANICAL DRAWINGS.
- WALL MOUNTED ADA DOOR OPERATOR PUSH PAD
- RECESSED FIRE EXTINGUISHER CABINET



KEY PLAN:

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SHEET TITLE:
OVERALL PLAN -
LEVEL 2

SHEET NUMBER:
A1.02

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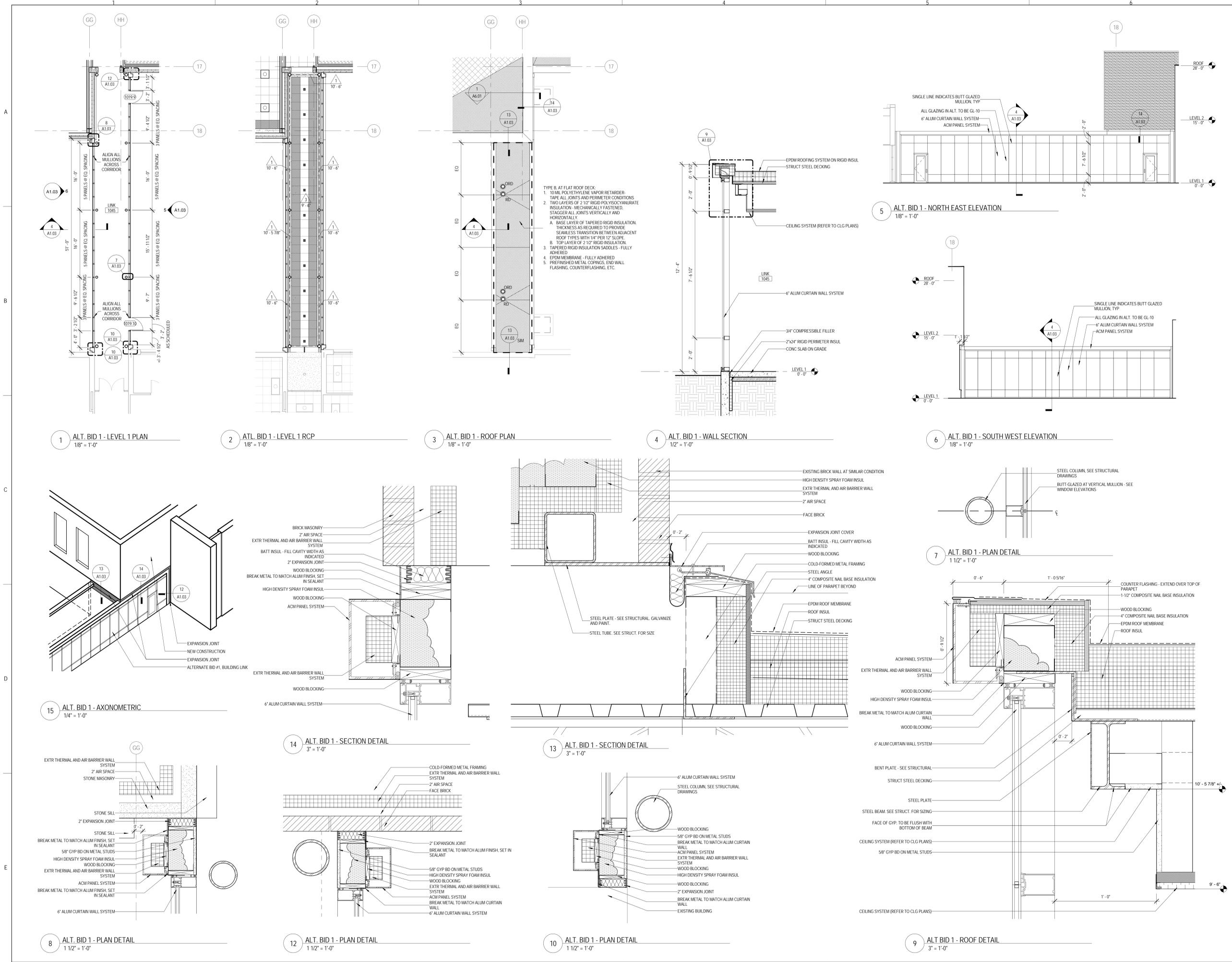
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 NO. DESCRIPTION DATE

SHEET TITLE:
**ALTERNATE BID #1 -
 PLANS, RCP, AND
 DETAILS**

SHEET NUMBER:

A1.03



DESIGN CRITERIA

- CODES:
 - INTERNATIONAL BUILDING CODE (IBC) 2009
 - AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
 - ALLOWABLE STRENGTH DESIGN (ASD/AISC 360-05) THIRTEENTH EDITION, 2005
 - AMERICAN WELDING SOCIETY D1.1
- DESIGN LOADS:
 - OCCUPANCY CATEGORY II
 - BACKFILL
 - EQUIVALENT FLUID PRESSURE 70 PCF
 - SEISMIC (IBC)
 - SOIL CLASSIFICATION D
 - SPECTRAL RESPONSE ACCELERATION, Ss 0.015 g
 - SPECTRAL RESPONSE ACCELERATION, S1 0.008 g
 - SHORT PERIOD DESIGN ACCELERATION, Sds 0.213 g
 - LONG PERIOD DESIGN ACCELERATION, Sd1 0.096 g
 - IMPORTANCE FACTOR 1.00
 - SEISMIC DESIGN CATEGORY B
 - SEISMIC FORCE RESISTING SYSTEM STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - RESPONSE MODIFICATION FACTOR, R 3
 - ANALYSIS PROCEDURE SIMPLIFIED ANALYSIS
 - SEISMIC RESPONSE COEFFICIENT, Cs 0.08
 - DESIGN BASE SHEAR, V = Cs x W 120 KIPS
 - WIND - PARAMETERS
 - BASIC WIND SPEED 90 MPH
 - IMPORTANCE FACTOR 1.0
 - EXPOSURE CLASS C
 - WIND - MAIN WIND FORCE RESISTING SYSTEM PRESSURES
 - WINDWARD DESIGN PRESSURE 15 PSF
 - LEEWARD DESIGN PRESSURE 10 PSF
 - ROOF UPLIFT (GROSS) (L.C. 1.0 W/L) 15 PSF (NET) (L.C. 0.60L + 1.0 W/L)
 - ROOF UPLIFT PRESSURE 5 PSF (NET) (L.C. 0.60L + 1.0 W/L)
 - WIND - ELEMENTS AND COMPONENTS
 - PER APPLICABLE BUILDING CODE
 - LIVE LOADS
 - CLASSROOMS 40 PSF UNREDUCIBLE
 - CORRIDOR AND PUBLIC SPACE 100 PSF UNREDUCIBLE
 - MECHANICAL 125 PSF UNREDUCIBLE
 - OFFICE 75 PSF REDUCIBLE
 - PARTITIONS 20 PSF UNREDUCIBLE
 - STAIRS 100 PSF UNREDUCIBLE
 - SNOW LOADS
 - GROUND SNOW LOAD 25 PSF
 - SNOW EXPOSURE FACTOR 1.0
 - THERMAL FACTOR 1.0
 - IMPORTANCE FACTOR 1.0
 - FLAT ROOF SNOW LOAD 20 PSF
 - DESIGN LOAD 30 PSF
 - RAIN-ON-SNOW SURCHARGE 5 PSF
 - DRIFTING LOAD REFER TO PLAN
- NET ALLOWABLE SOIL BEARING PRESSURES
 - SPREAD FOOTINGS 4000 PSF
 - CONTINUOUS FOOTINGS 3500 PSF
- MINIMUM FROST PROTECTION DEPTH FROM ADJACENT GRADE:
 - EXTERIOR FOOTINGS ADJACENT TO HEATED AREA -3'-6"
 - EXTERIOR FOOTINGS IN UNHEATED AREA -4'-0"
- SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTHS (f'c)
 - FOUNDATION WALLS 4000 PSI
 - SHAFT WALLS, ELEVATOR OR STAIR SLABS ON GRADE 3500 PSI
 - TYPICAL - UNLESS NOTED OTHERWISE 4000 PSI
- 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
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - WIDE FLANGE SECTIONS ASTM A992 Fy = 50 KSI
 - OTHER ROLLED SECTIONS ASTM A36 Fy = 36 KSI
 - SQUARE AND RECTANGULAR HSS ASTM A500, GR B Fy = 46 KSI
 - ROUND HSS ASTM A500, GR B Fy = 42 KSI
 - SQUARE, RECTANGULAR, ROUND HSS ASTM A1085 Fy = 50 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) Fy = 24 KSI
 - HIGH STRENGTH BOLTS (AISC 360-05 LRFD) A325 (3/4" DIAMETER UNO) Fy = 30 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
- STEEL DECK AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS:
 - GALVANIZED COMPOSITE FLOOR DECK ASTM A653, GR 50 [40] Fy = 50 [40] KSI
 - GALVANIZED STEEL ROOF DECK ASTM A653, GR 33 Fy = 33 KSI

GENERAL NOTES

- 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 INSURED UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
- 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.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.
- DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
- 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.
- DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 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 FINISHES 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.
- 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.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPES OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS, DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA SHALL BE KEPT TO A MINIMUM.
- 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.
- 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.
- 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.
- THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
- 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.
- ELEVATIONS ARE BASED ON THE FIRST FLOOR ELEVATION OF (+ 0' - 0") WHICH IS EQUAL TO CIVIL ELEVATION OF 671.64'.

FOUNDATIONS/SLAB-ON-GRADE

- 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.
- FOUNDATION DESIGN BASED ON GEOTECHNICAL ENGINEERING REPORT DATED JANUARY 29, 2015 BY ECS MIDWEST, LLC. REPORT IS ON FILE WITH THE ARCHITECT.
- 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.
- UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
- PROVIDE SAW CUT CONTROL JOINTS IN ALL SLAB-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

- FOR CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:
 - PERMANENTLY EXPOSED TO EARTH 3 INCHES
 - CONCRETE EXPOSED TO EARTH OR WEATHER
 - NO. 5 BARS OR LARGER 2 INCHES
 - NO. 5 BARS 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
- 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.
- BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 3B AS DEFINED IN 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS:

BAR SIZE	3000 PSI CONCRETE		4000 PSI CONCRETE	
	OTHER	TOP	OTHER	TOP
#3	22	28	19	25
#4	29	36	25	33
#5	36	47	31	41
#6	43	60	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.

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.

POST INSTALLED STEEL ANCHORS

- 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 HILC SLEEVE	POWERS LOKBOLT, 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
CRACKED CONCRETE	HILTI KWIK BOLT TZ	POWER STUD+ SD2, ITW/RED HEAD TRUBOLT+, SIMPSON STRONG BOLT

- ADHESIVE ANCHOR SYSTEMS FOR ATTACHMENT INTO CONCRETE SHALL CONSIST OF ASTM A193 GRADE B7 RODS, HEAVY DUTY UNO AND TWO PART EPOXY 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
CRACKED/UNCRACKED CONCRETE	HILTI HIT HY 200	POWERS PE 1000+, SIMPSON SET XP

STRUCTURAL STEEL

- REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
- UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS.
- 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.
- BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
- ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY MOMENT FRAMES. WELDED BEAM TO COLUMN CONNECTIONS FRAMED IN EACH ORTHOGONAL DIRECTIONS (SEE PLAN SHEETS FOR LOCATIONS). THE COMPOSITE STEEL DECK AND CONCRETE FLOORS SERVE AS HORIZONTAL DIAPHRAGMS THAT DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL LATERAL FRAMES. THE VERTICAL MOMENT FRAMES CARRY THE APPLIED LATERAL LOADS TO THE BUILDING FOUNDATION.

STEEL JOISTS

- 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.
- PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGINGS 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.
- ERECTOR SHALL FOLLOW MANUFACTURER'S AND STEEL JOIST INSTITUTES GUIDELINES FOR ERECTIONS STABILITY AND HANDLING.
- 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.

JOIST SERIES	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING
	WELD SIZE	WELD LENGTH	BOLT DIAMETER	BOLT MATERIAL	
K	1/8"	2"	1/2"	A307	2 1/2" 4"

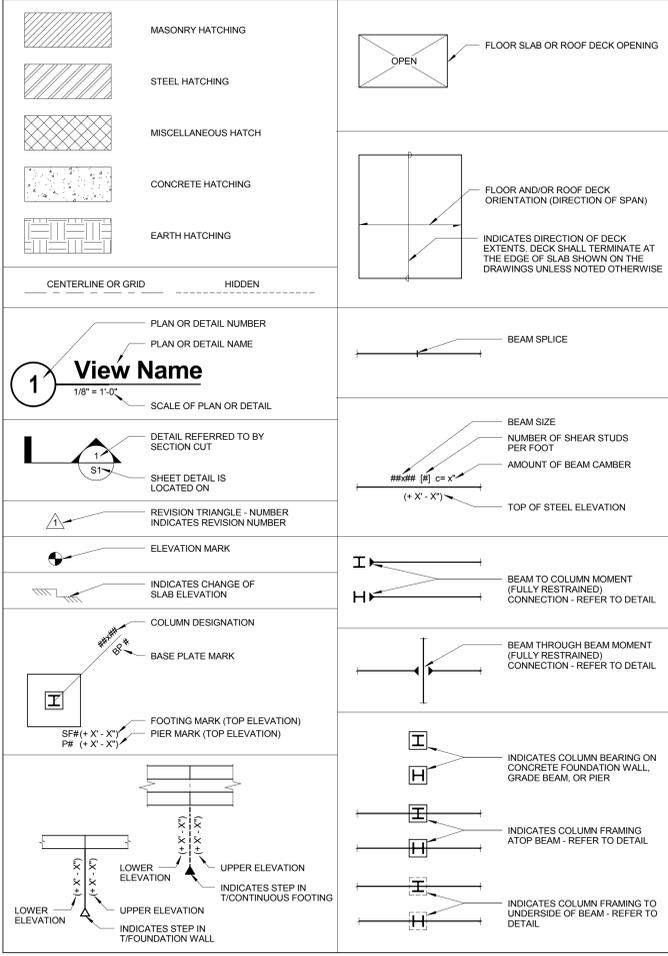
STEEL DECK

- DECK SIZE AND GAGE INDICATED IN THE DRAWINGS ARE BASED ON THE FOLLOWING:
 - A. VULCRAFT 2008 [2003] CATALOG FOR GRAVITY DESIGN LOADS.
 - B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.
 - C. VULCRAFT 2008 [2003] CATALOG FOR UNSHORED CONSTRUCTION SPANS.
- STEEL ROOF DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
- COMPOSITE STEEL FLOOR DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
- CORRUGATED STEEL FLOOR DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
- UNLESS NOTED OTHERWISE, DECK SHALL BE FASTENED WITH 5/8" DIAMETER PUDDLE WELDS AT 12" OC AT ALL SUPPORTS AND EDGES. PROVIDE 1/8" GAGE WELDED WASHERS WHERE REQUIRED BY THE DECK MANUFACTURER FOR THE GAGE OF STEEL DECK SPECIFIED BELOW. SLAB LAPS SHALL BE FASTENED WITH #10 TEK SCREWS, MINIMUM ONE AT EACH MIDSPAN AT ROOF, AND TWO AT EACH MIDSPAN AT COMPOSITE FLOORS. OPENING EDGES SHALL RECEIVE THE SAME WELDING AS REQUIRED AT DECK ENDS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN COLD-FORMED STEEL DECK WORK.
- 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.
- USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAGE.

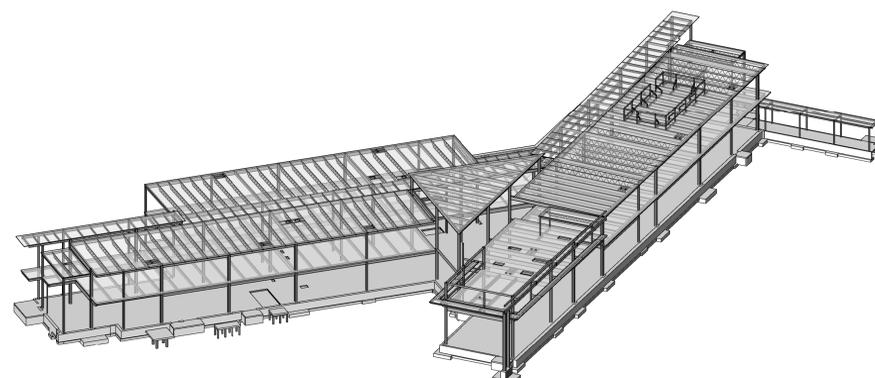
STRUCTURAL ABBREVIATIONS LIST

#	NUMBER	KSF	KIPS PER SQUARE FOOT
@	DEGREES	LB	POUNDS
∅	DIAMETER	LF	LINEAR FOOT
AHU	AIR HANDLING UNIT	LV	LIVE LOAD
APPROX	APPROXIMATE -LY	LLH	LONG LEGS HORIZONTAL
ARCHIT	ARCHITECT -URE, -URAL	LLV	LONG LEGS VERTICAL
B	BOTTOM OF	LSH	LONG SIDE HORIZONTAL
BM	BEAM	LSV	LONG SIDE VERTICAL
BP	BASE PLATE	LONG	LONGITUDINAL
BRG	BEARING	ME	MECHANICAL/ELECTRICAL
CFSE	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CL	CLEAR	MEZ	MEZZANINE
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
CNC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION	MARK	MARK
CNT	CONTINUOUS	N	NORTH
D	DEPTH	N	LENGTH (AS PLATES)
DBL	DOUBLE	NOT	NOT IN CONTRACT
DEG	DEGREE	NTS	NOT TO SCALE
DM	DIMENSION	OC	ON CENTER
DWG	DEAD LOAD	OPNG	OPENING
DTL	DETAIL	OPP	OPPOSITE
DWG	DRAWING	PAF	POWER ACTUATED FASTENER
EAL	EACH	PCF	POUNDS PER CUBIC FOOT
EJ	EXPANSION JOINT	PL	PLATE
ELEV	ELEVATION	PL	POUNDS PER SQUARE FOOT
ELEC	ELECTRICAL	PSF	POUNDS PER SQUARE INCH
EMBED	EMBEDDED	PVC	POLYVINYL CHLORIDE
EQ	EQUAL	R	RADIUS
EOS	EDGE OF SLAB	RD	ROOF DRAIN
EQ	EQUAL	REIN	REINFORCING, -MENT, -ED
EQUIP	EQUIPMENT	REQD	REQUIRED
EW	EACH WAY	REF	REFERENCE, REFER TO
EXIST (E)	EXISTING	RTU	ROOF TOP UNIT
EXP	EXPANSION	SC	TC WITH CLASS A FAYING SURFACE
EXTERIOR	EXTERIOR	SCHED	SCHEDULE
FC	CONCRETE COMPRESSIVE STRENGTH	SIM	SIMILAR
FIN	FINISHED	SL	SNOW LOAD
FIN	FINISHED	SPEC(S)	SPECIFICATION(S)
FL	FLOOR	SPL	SPLIT
FOOT	FOOT	SQ	SQUARE
FTG	FOOTING	STD	STANDARD
GALV	GALVANIZED	STF	STIFFENER
GB	GRADE BEAM	T	TOP OF
GYP	GENERAL CONTRACTOR	TC	PRE-TENSIONED BOLT
HOD	HOT-DIPPED GALVANIZED	TEMP	TEMPERATURE
HORIZ	HORIZONTAL	TEMP	TEMPERATURE
HVAC	HEATING, VENTILATION, AIR CONDITIONING	THICK	BEAM FLANGE THICKNESS
HWS	HEADED, WELDED STUD	TRANS	TRANSVERSE
IN	INCH	TYP	TYPICAL
INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
JT	JOIST	VER	VERTICAL
K, KIP	KILOPOUND (1,000 POUNDS)	VVA	VERIFY WITH ARCHITECTURAL DRAWINGS
KO	KNOCK-OUT	WT	WORKING POINT
		WY	WEIGHT
		YD	YARD

STRUCTURAL DRAWING SYMBOLS



3D VIEW



NOTES:
1. 3D VIEW IS FOR REFERENCE ONLY - NOT FOR CONSTRUCTION. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ACTUAL CONSTRUCTION REQUIREMENTS.



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JOLIET JUNIOR COLLEGE
ROMEORVILLE CAMPUS EXPANSION
 1125 135TH ST. - ROMEORVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:

SHEET STATUS: 6/30/15
BID PACKAGE 1
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
GENERAL NOTES

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 PROJECT # 14-005-00
 ISSUE: Design Firm Registration R14-005-00

SHEET NUMBER:
50.00

REFERENCE SCALE IN INCHES
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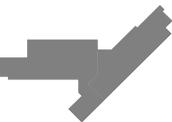


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 DKA PROJECT NO: 14-005

KEY PLAN:



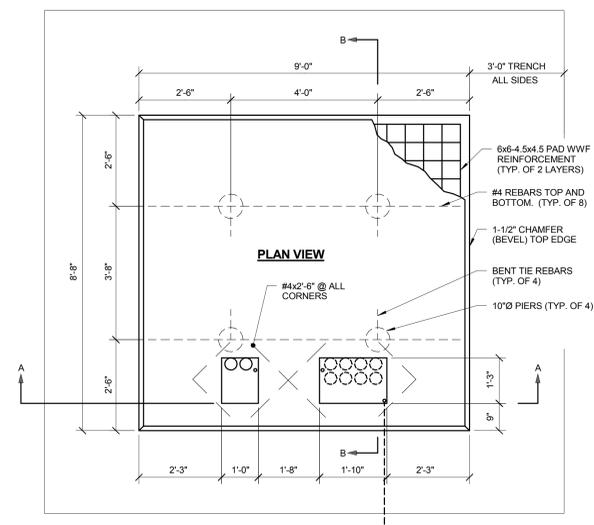
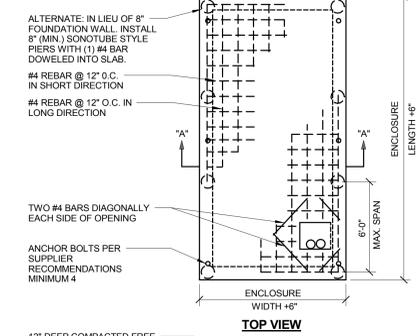
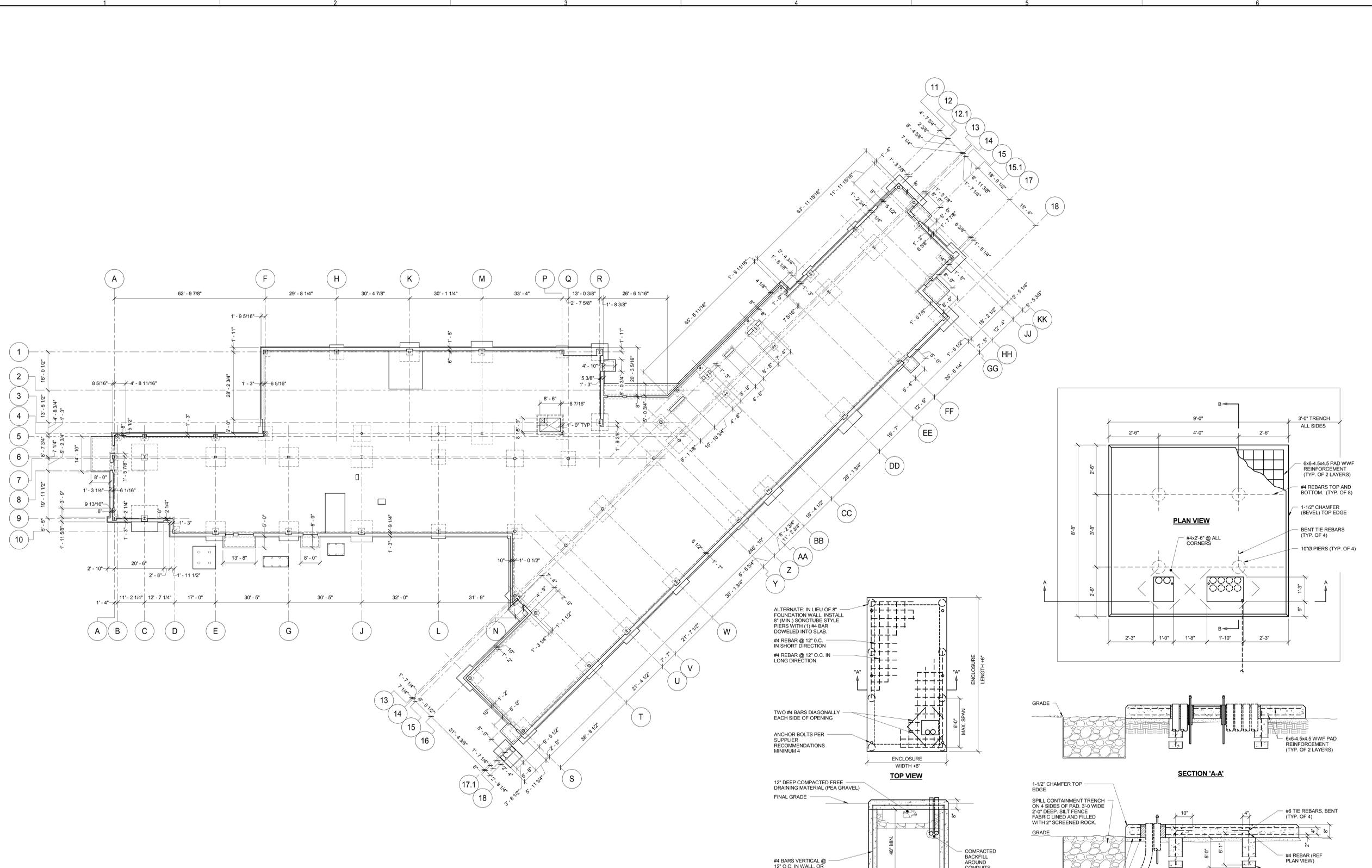
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BID PACKAGE 1
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION PLAN - DIMENSIONAL

SHEET NUMBER:

S1.01



1 FOUNDATION PLAN - DIMENSIONAL
 1/16" = 1'-0"
 NORTH

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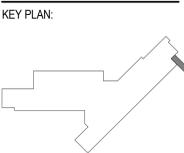




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 DKA PROJECT NO: 14-005



SHEET STATUS: 6/30/15
BID PACKAGE 1
ISSUED FOR BID

NO.	DESCRIPTION	DATE

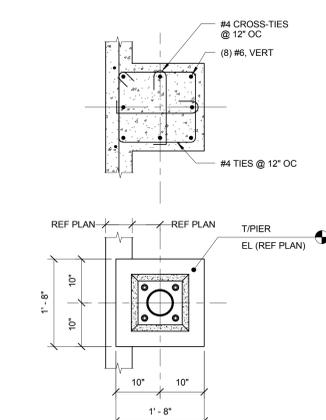
SHEET TITLE:
ALTERNATE BID #1 - PLANS, DETAILS

SHEET NUMBER:
S1.02

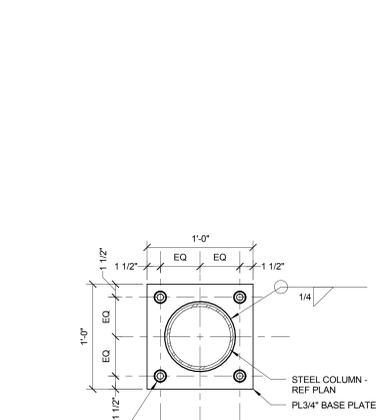
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 Illinois Design Firm Registration #184-08873
 PROJECT # 14.0443.00

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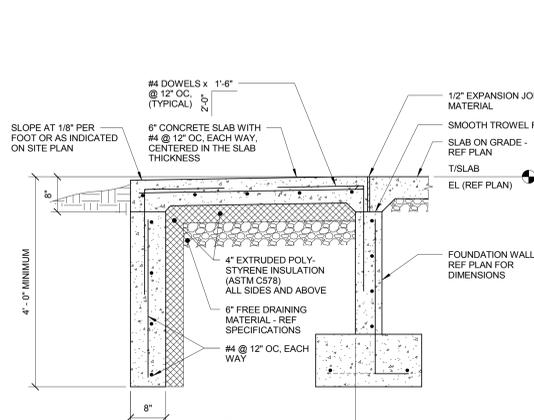
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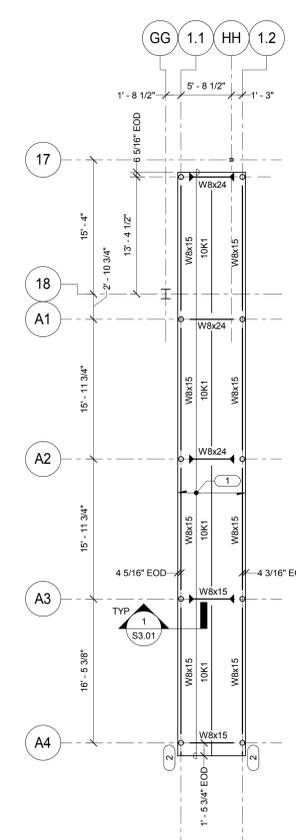
5 PIER (P10) DETAIL
 3/4" = 1'-0"



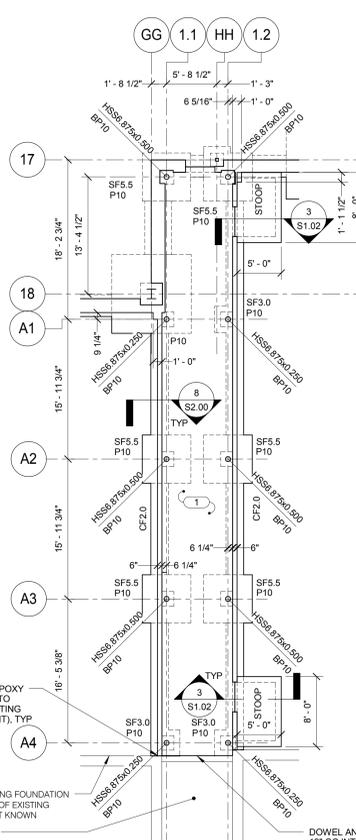
4 BASE PLATE (BP10)
 1/2" = 1'-0"



3 TYPICAL STOOP SECTION
 3/4" = 1'-0"



2 FRAMING PLAN - ALT BID #1
 1/8" = 1'-0"



1 FOUNDATION PLAN - ALT BID #1
 1/8" = 1'-0"

- NOTES:**
- TOP OF FOOTING ELEVATION (-3'-6") UNO.
 - TOP OF FOUNDATION WALL ELEVATION (+0'-0") UNO.
 - TOP OF PIER ELEVATION (-1'-0") UNO.
 - BP# INDICATES BASE PLATE. REFERENCE THIS SHEET FOR ANCHOR RODS AND BASE PLATE DETAILS.
 - P# INDICATES CONCRETE PIER. REFERENCE THIS SHEET FOR DETAILS.
 - SF# AND CF# INDICATES SPREAD AND CONTINUOUS FOOTINGS. REFERENCE S1.11 FOR SCHEDULES.
 - REFER TO 1, 2 AND 3/S2.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
- KEYNOTES:**
- 1 4" CONCRETE SLAB ON GRADE WITH 6#6 - W2.1W2.1 WWR.

- NOTES:**
- DECK BEARING ELEVATION (+11'-2").
 - REFER TO 1/S3.00 FOR TYPICAL SHEAR CONNECTION.
 - PROVIDE ANGLE FRAMING AROUND OPENING PER 7/S3.01.
 - INDICATES MOMENT CONNECTION 12/S3.00.
- KEYNOTES:**
- 1 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM. PROVIDE 36/4 DECK FASTENING PATTERN WITH (1) #10 TEK SCREW SIDELAPS PER SPAN.
 - 2 HSS4x4x1/4 OUTRIGGER. PROVIDE ROUND 3/16" FILLET WELD TO HSS CONNECT AT COLUMN.



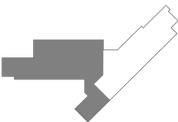


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JOLIET JUNIOR COLLEGE
ROMEORVILLE CAMPUS EXPANSION
 1125 135TH ST. ROMEORVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:



SHEET STATUS: 6/30/15
BID PACKAGE 1
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION PLAN - WEST

SHEET NUMBER:

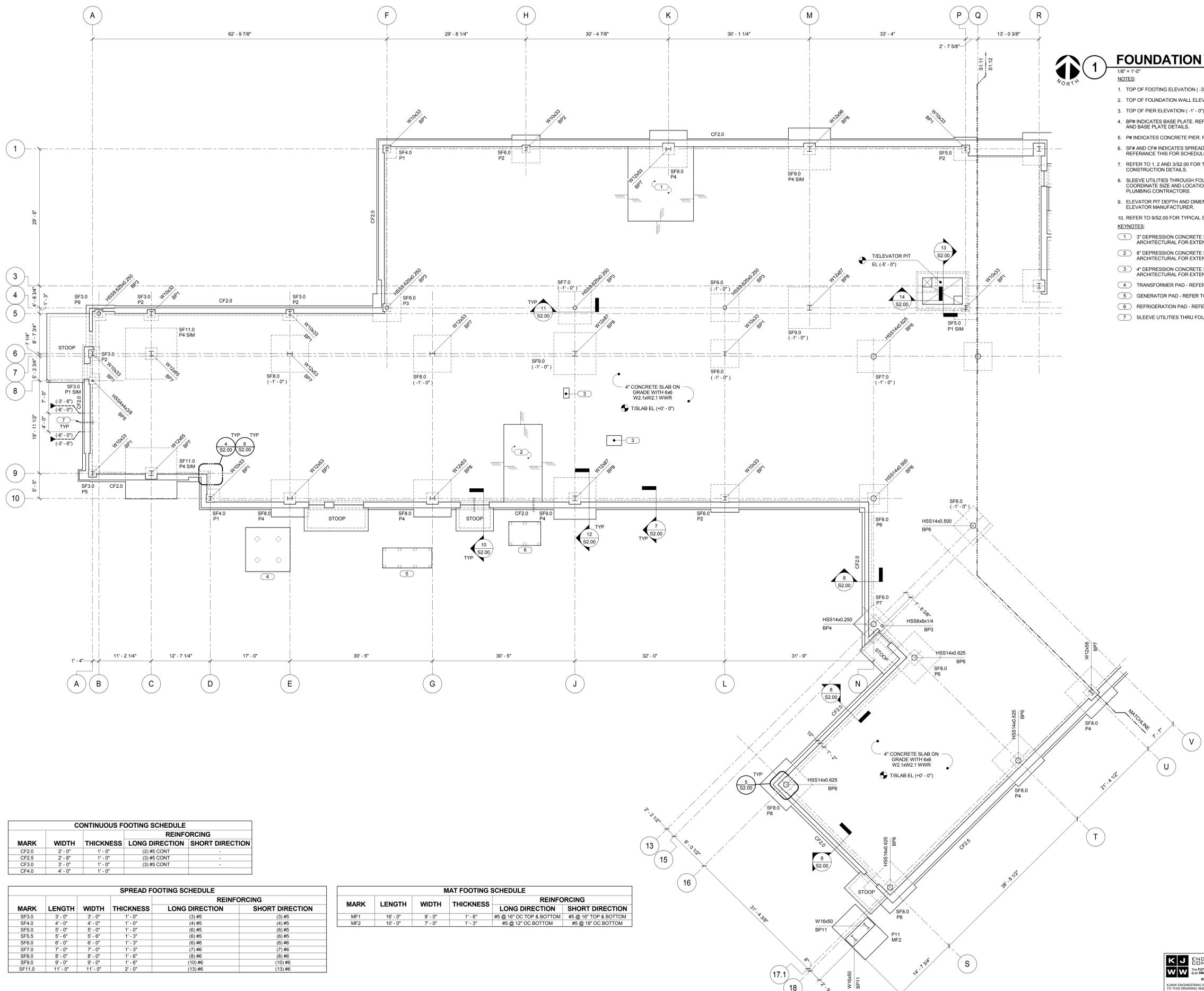
S1.11

FOUNDATION PLAN - WEST

1/8" = 1'-0"

NOTES:

- TOP OF FOOTING ELEVATION (-3'-6") UNO.
 - TOP OF FOUNDATION WALL ELEVATION (+0'-0") UNO.
 - TOP OF PIER ELEVATION (-1'-0") UNO.
 - BP# INDICATES BASE PLATE. REFER TO S2.01 FOR ANCHOR RODS AND BASE PLATE DETAILS.
 - P## INDICATES CONCRETE PIER. REFERENCE S2.01 FOR DETAILS.
 - SF# AND CF# INDICATES SPREAD AND CONTINUOUS FOOTINGS. REFERENCE THIS FOR SCHEDULES.
 - REFER TO 1, 2 AND 3/S2.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
 - SLEEVE UTILITIES THROUGH FOUNDATION PER 12/S2.01. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
 - ELEVATOR PIT DEPTH AND DIMENSIONS TO BE VERIFIED WITH ELEVATOR MANUFACTURER.
 - REFER TO 9/S2.00 FOR TYPICAL STEP IN FOUNDATION WALL DETAIL.
- KEYNOTES:
- 3" DEPRESSION CONCRETE SLAB - REFER TO 13/S2.01 FOR DETAIL AND ARCHITECTURAL FOR EXTENT OF DEPRESSION.
 - 8" DEPRESSION CONCRETE SLAB - REFER TO 13/S2.01 FOR DETAIL AND ARCHITECTURAL FOR EXTENT OF DEPRESSION.
 - 4" DEPRESSION CONCRETE SLAB - REFER TO 13/S2.01 FOR DETAIL AND ARCHITECTURAL FOR EXTENT OF DEPRESSION.
 - TRANSFORMER PAD - REFER TO 3/S1.01.
 - GENERATOR PAD - REFER TO 2/S1.01.
 - REFRIGERATION PAD - REFER TO 2/S1.01.
 - SLEEVE UTILITIES THRU FOUNDATION WALL - REFER TO NOTE 8.



MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF2.0	2'-0"	1'-0"	(2) #5 CONT	-
CF2.5	2'-6"	1'-0"	(3) #5 CONT	-
CF3.0	3'-0"	1'-0"	(3) #5 CONT	-
CF4.0	4'-0"	1'-0"	-	-

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	
				LONG DIRECTION	SHORT DIRECTION
SF3.0	3'-0"	3'-0"	1'-0"	(3) #5	(3) #5
SF4.0	4'-0"	4'-0"	1'-0"	(4) #5	(4) #5
SF5.0	5'-0"	5'-0"	1'-0"	(6) #5	(6) #5
SF5.5	5'-6"	5'-6"	1'-3"	(6) #5	(6) #5
SF6.0	6'-0"	6'-0"	1'-3"	(6) #6	(6) #6
SF7.0	7'-0"	7'-0"	1'-3"	(7) #6	(7) #6
SF8.0	8'-0"	8'-0"	1'-6"	(8) #6	(8) #6
SF9.0	9'-0"	9'-0"	1'-6"	(10) #6	(10) #6
SF11.0	11'-0"	11'-0"	2'-0"	(13) #6	(13) #6

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	
				LONG DIRECTION	SHORT DIRECTION
MF1	16'-0"	8'-0"	1'-6"	#5 @ 16" OC TOP & BOTTOM	#5 @ 16" TOP & BOTTOM
MF2	10'-0"	7'-0"	1'-3"	#5 @ 12" OC BOTTOM	#5 @ 18" OC BOTTOM

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DESIGN
 PROJECT # 14.043.00
 SHEET # 14.043.00

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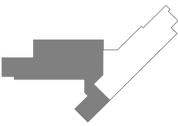


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**JOLIET JUNIOR COLLEGE
 ROMEOVILLE CAMPUS EXPANSION**
 1125 135TH ST. ROMEOVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:



SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
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 NO: DESCRIPTION: DATE:

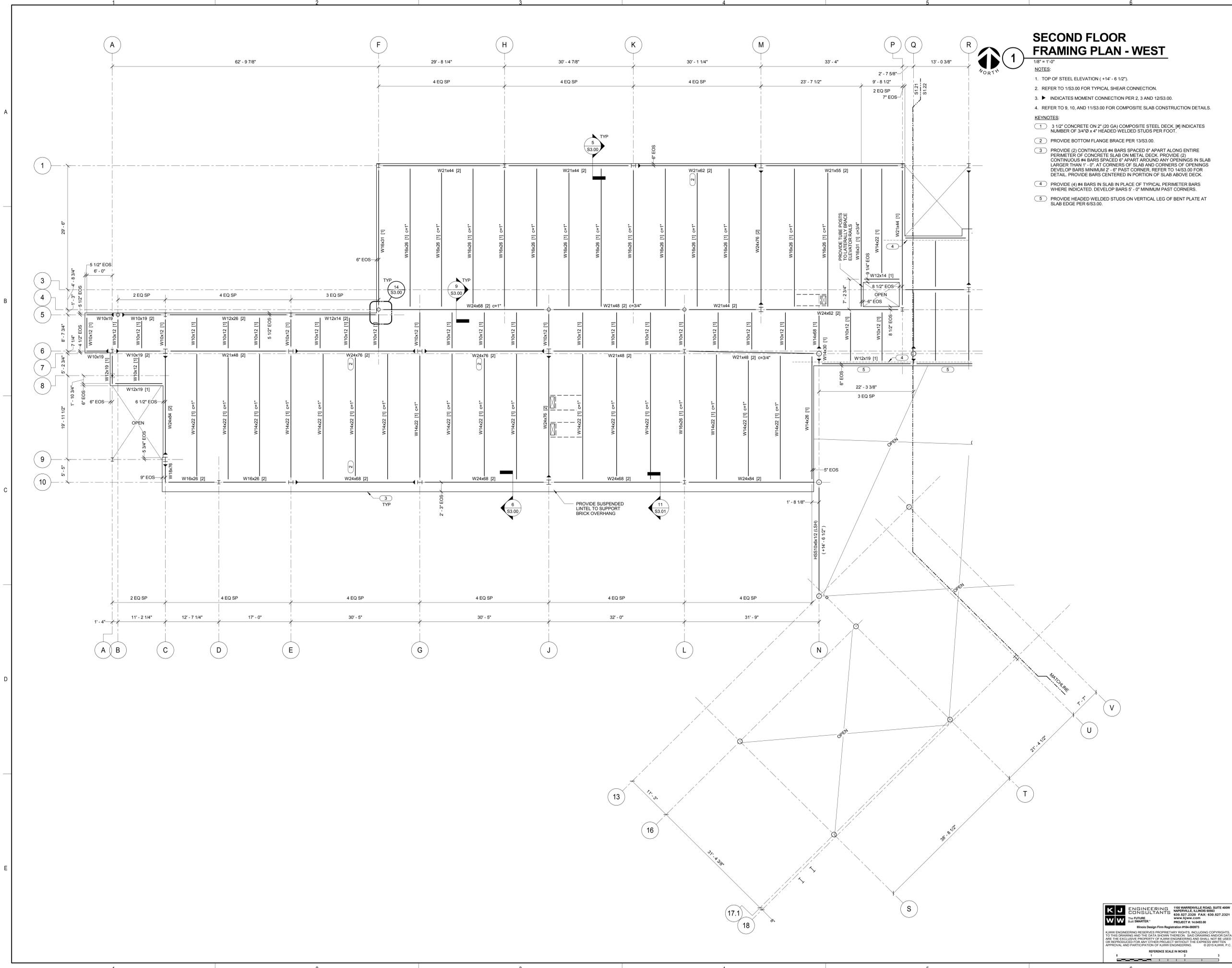
SHEET TITLE:
**SECOND FLOOR
 FRAMING PLAN - WEST**

SHEET NUMBER:

S1.21

**SECOND FLOOR
 FRAMING PLAN - WEST**

- 1/8" = 1'-0"
 NOTES:
 1. TOP OF STEEL ELEVATION (+14' - 6 1/2").
 2. REFER TO 1/S3.00 FOR TYPICAL SHEAR CONNECTION.
 3. INDICATES MOMENT CONNECTION PER 2, 3 AND 12/S3.00.
 4. REFER TO 9, 10, AND 11/S3.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS.
 KEYNOTES:
 1. 3 1/2" CONCRETE ON 2" (2) GA. COMPOSITE STEEL DECK. (H) INDICATES NUMBER OF 3/4" X 4" HEADED WELDED STUDS PER FOOT.
 2. PROVIDE BOTTOM FLANGE BRACE PER 13/S3.00.
 3. PROVIDE (2) CONTINUOUS #4 BARS SPACED 6" APART ALONG ENTIRE PERIMETER OF CONCRETE SLAB ON METAL DECK. PROVIDE (2) CONTINUOUS #4 BARS SPACED 6" APART AROUND ANY OPENINGS IN SLAB LARGER THAN 1' - 0". AT CORNERS OF SLAB AND CORNERS OF OPENINGS DEVELOP BARS MINIMUM 2'-0" PAST CORNER. REFER TO 14/S3.00 FOR DETAIL. PROVIDE BARS CENTERED IN PORTION OF SLAB ABOVE DECK.
 4. PROVIDE (4) #4 BARS IN SLAB IN PLACE OF TYPICAL PERIMETER BARS WHERE INDICATED. DEVELOP BARS 5' - 0" MINIMUM PAST CORNERS.
 5. PROVIDE HEADED WELDED STUDS ON VERTICAL LEG OF BENT PLATE AT SLAB EDGE PER 6/S3.00.



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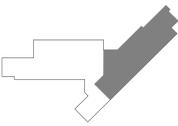


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**JOLIET JUNIOR COLLEGE
 ROMEVILLE CAMPUS EXPANSION**
 1125 135TH ST. ROMEVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:



SHEET STATUS: 6/30/15
BID PACKAGE 1
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NO.	DESCRIPTION:	DATE:

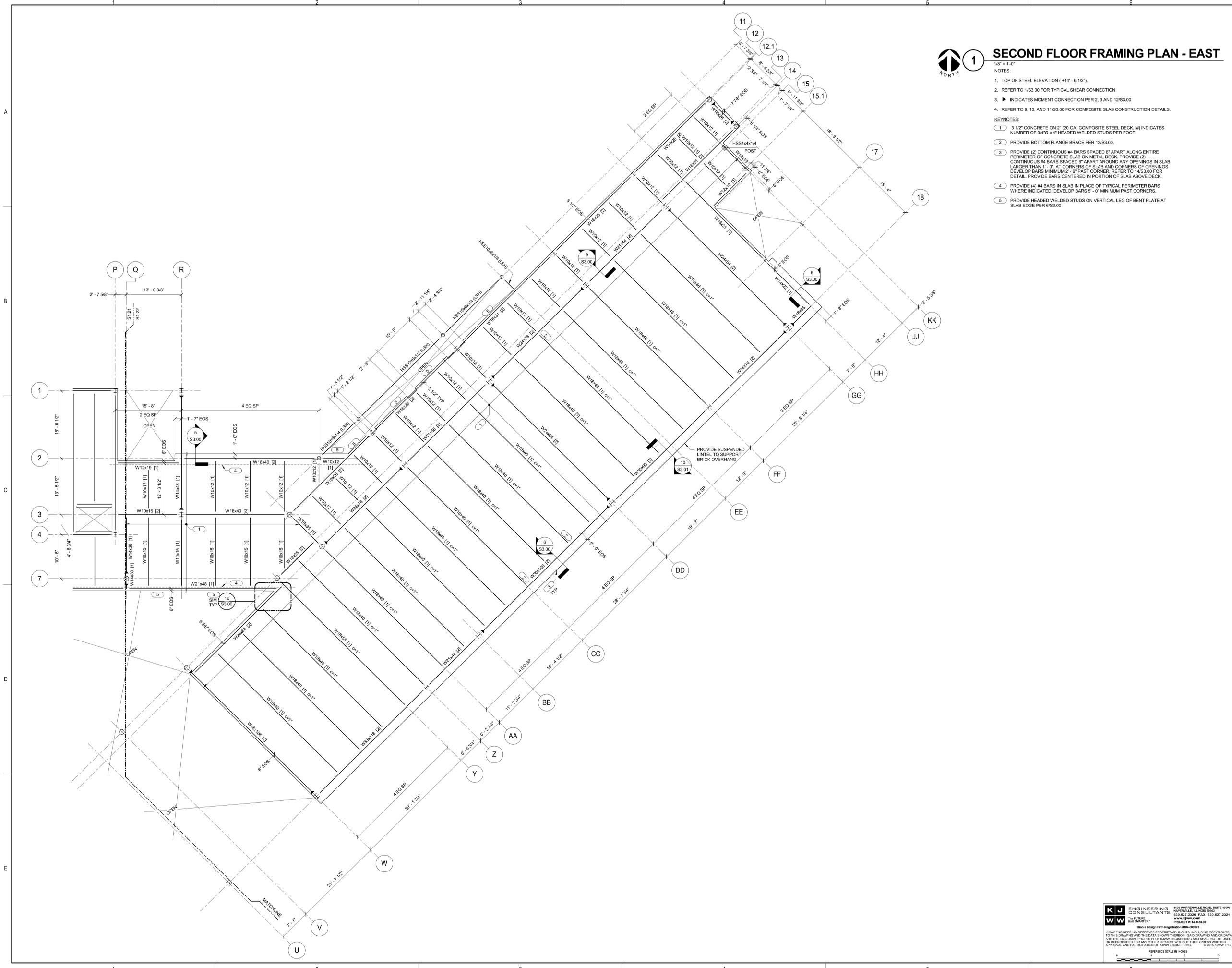
SHEET TITLE:
**SECOND FLOOR
 FRAMING PLAN -
 EAST**

SHEET NUMBER:
S1.22



1 SECOND FLOOR FRAMING PLAN - EAST

- 1/8" = 1'-0"
 1. TOP OF STEEL ELEVATION (+14' - 6 1/2").
 2. REFER TO 1/S3.00 FOR TYPICAL SHEAR CONNECTION.
 3. ► INDICATES MOMENT CONNECTION PER 2, 3 AND 12/S3.00.
 4. REFER TO 9, 10, AND 11/S3.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS.
- KEYNOTES:
 (1) 3 1/2" CONCRETE ON 2" (20 GA) COMPOSITE STEEL DECK. (B) INDICATES NUMBER OF 3/4"x4" HEADED WELDED STUDS PER FOOT.
 (2) PROVIDE BOTTOM FLANGE BRACE PER 13/S3.00.
 (3) PROVIDE (2) CONTINUOUS #4 BARS SPACED 6" APART ALONG ENTIRE PERIMETER OF CONCRETE SLAB ON METAL DECK. PROVIDE (2) CONTINUOUS #4 BARS SPACED 6" APART AROUND ANY OPENINGS IN SLAB LARGER THAN 1' - 0". AT CORNERS OF SLAB AND CORNERS OF OPENINGS DEVELOP BARS MINIMUM 2' - 0" PAST CORNER. REFER TO 14/S3.00 FOR DETAIL. PROVIDE BARS CENTERED IN PORTION OF SLAB ABOVE DECK.
 (4) PROVIDE (4) #4 BARS IN SLAB IN PLACE OF TYPICAL PERIMETER BARS WHERE INDICATED. DEVELOP BARS 5' - 0" MINIMUM PAST CORNERS.
 (5) PROVIDE HEADED WELDED STUDS ON VERTICAL LEG OF BENT PLATE AT SLAB EDGE PER 6/S3.00



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 Illinois Design Firm Registration #18-08973

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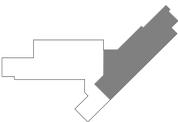


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ROMEIOVILLE CAMPUS EXPANSION
 1125 135TH ST. ROMEIOVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:

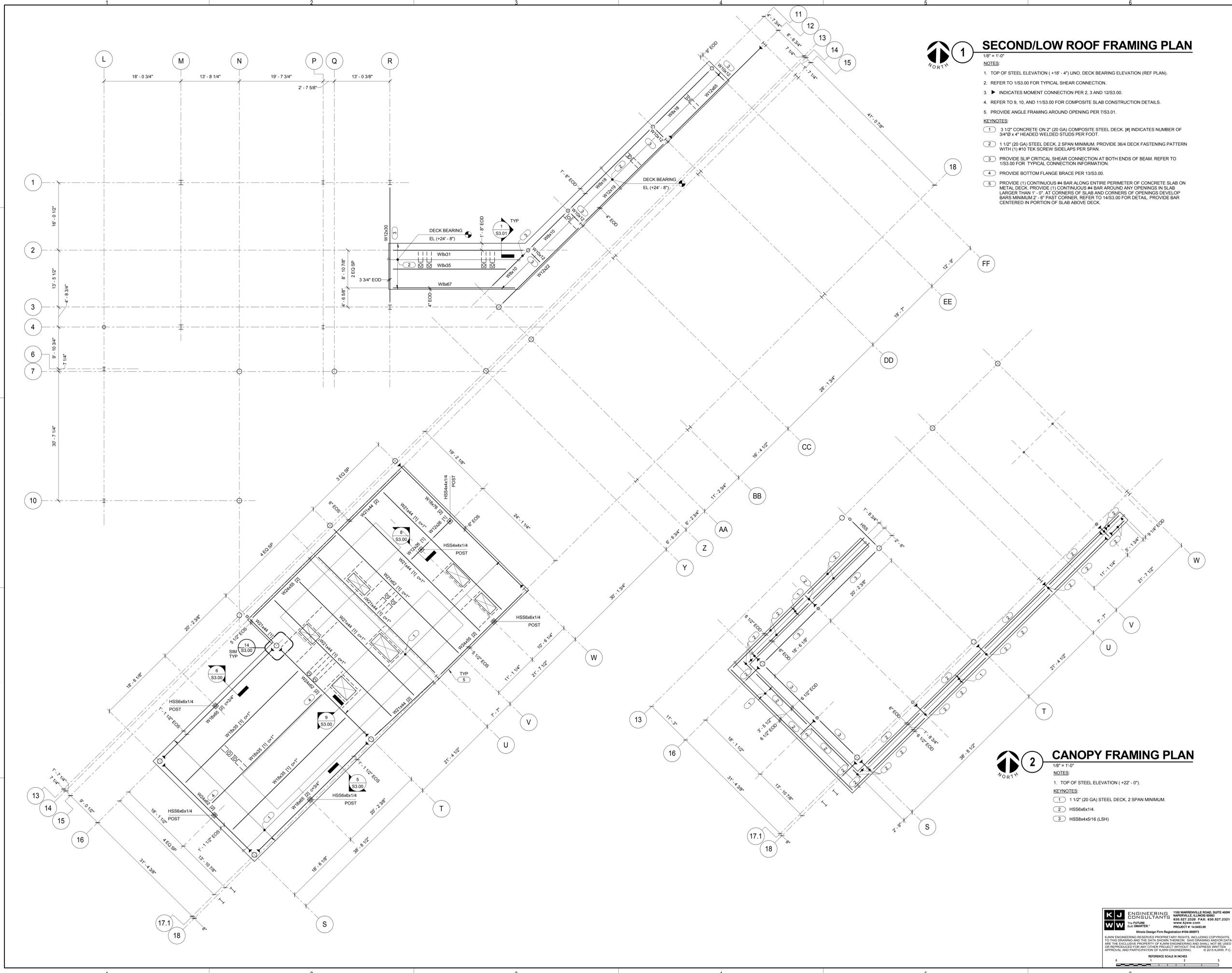


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60% CONSTR. DOCS. -
FOR REFERENCE ONLY
 NO. DESCRIPTION: DATE:

SHEET TITLE:
SECOND/LOW ROOF FRAMING PLAN

SHEET NUMBER:

S1.23



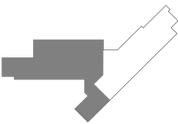


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 DKA PROJECT NO: 14-005

KEY PLAN:



SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
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 NO: DESCRIPTION: DATE:

SHEET TITLE:
ROOF FRAMING PLAN
- WEST

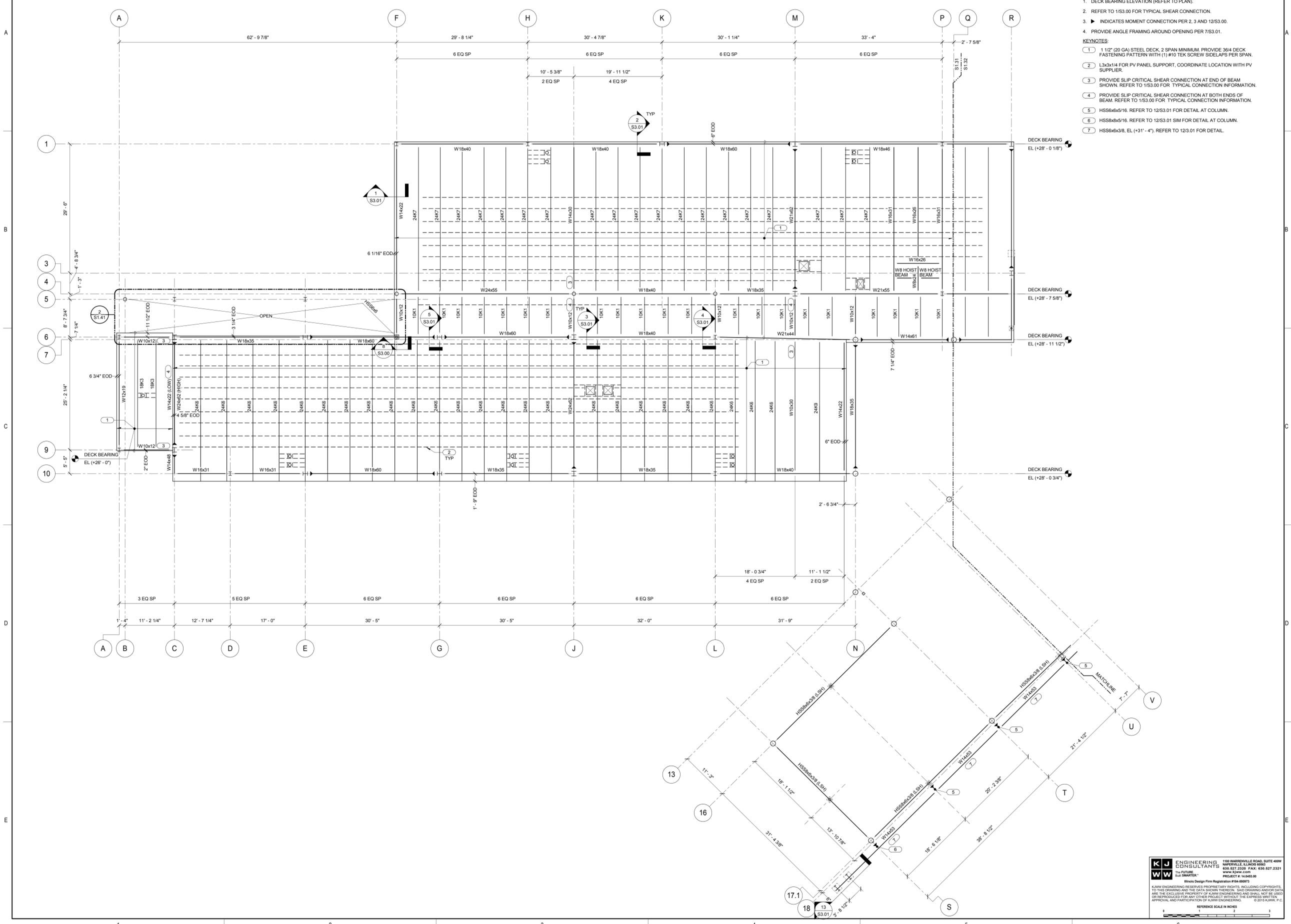
SHEET NUMBER:

S1.31



1 ROOF FRAMING PLAN - WEST

- 1/8" = 1'-0"
 NOTES:
 1. DECK BEARING ELEVATION (REFER TO PLAN).
 2. REFER TO 1/53.00 FOR TYPICAL SHEAR CONNECTION.
 3. ► INDICATES MOMENT CONNECTION PER 2, 3 AND 12/53.00.
 4. PROVIDE ANGLE FRAMING AROUND OPENING PER 7/53.01.
 KEYNOTES:
 1 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM. PROVIDE 3/8" DECK FASTENING PATTERN WITH (1) #10 TEK SCREW SIDELAPS PER SPAN.
 2 L3x3x1/4 FOR PV PANEL SUPPORT. COORDINATE LOCATION WITH PV SUPPLIER.
 3 PROVIDE SLIP CRITICAL SHEAR CONNECTION AT END OF BEAM SHOWN. REFER TO 1/53.00 FOR TYPICAL CONNECTION INFORMATION.
 4 PROVIDE SLIP CRITICAL SHEAR CONNECTION AT BOTH ENDS OF BEAM. REFER TO 1/53.00 FOR TYPICAL CONNECTION INFORMATION.
 5 HSS6x6x5/16. REFER TO 12/53.01 FOR DETAIL AT COLUMN.
 6 HSS8x8x5/16. REFER TO 12/53.01 SIM FOR DETAIL AT COLUMN.
 7 HSS6x6x3/8, EL (+31'-4"). REFER TO 12/3.01 FOR DETAIL.



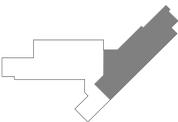


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**JOLIET JUNIOR COLLEGE
 ROMEVILLE CAMPUS EXPANSION**
 1125 135TH ST. ROMEVILLE, JOLIET, IL 60446
 DKA PROJECT NO: 14-005

KEY PLAN:



SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ROOF FRAMING PLAN - EAST

SHEET NUMBER:

S1.32

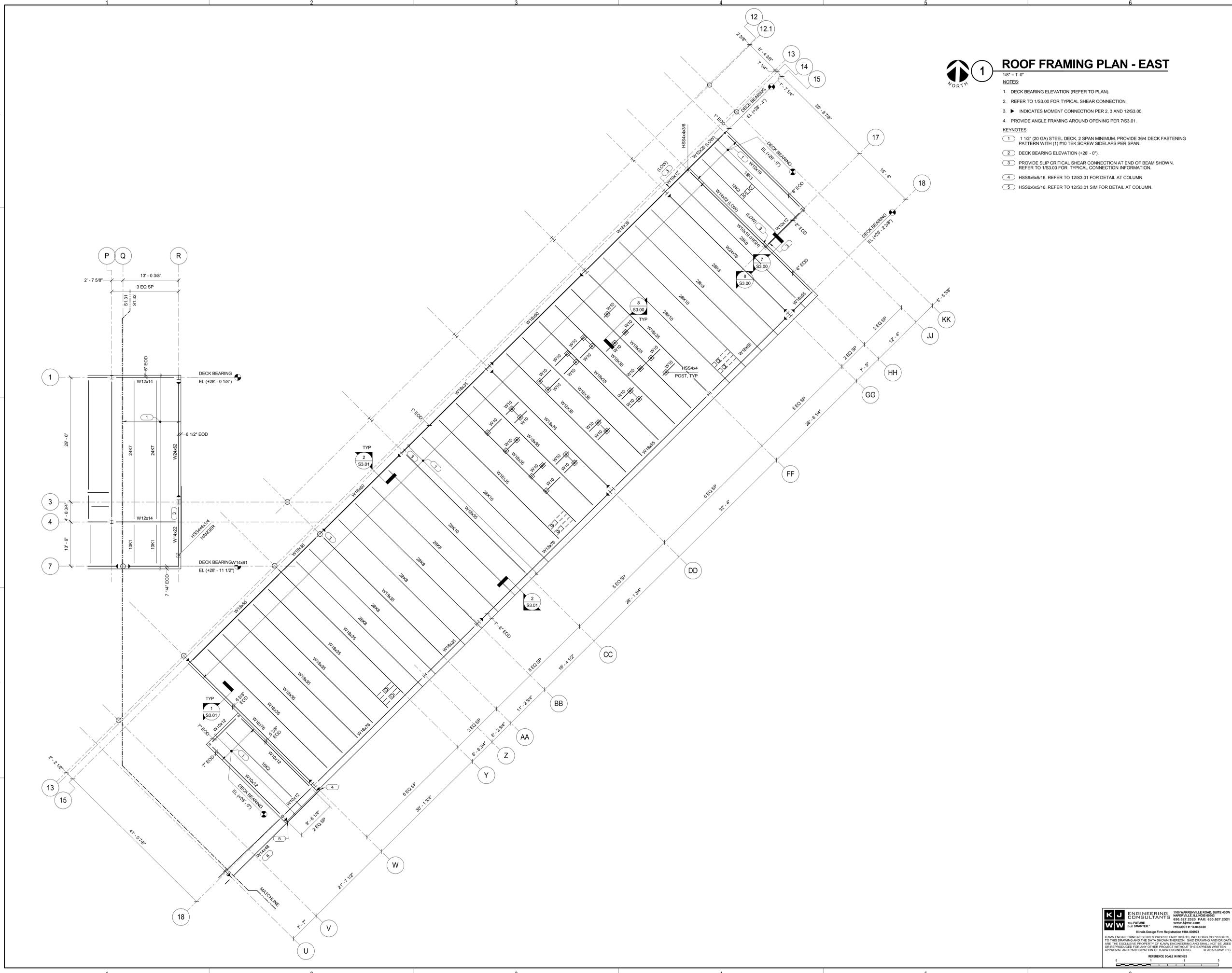


1 ROOF FRAMING PLAN - EAST

1/8" = 1'-0"

- NOTES:
1. DECK BEARING ELEVATION (REFER TO PLAN).
 2. REFER TO 1/S3.00 FOR TYPICAL SHEAR CONNECTION.
 3. ► INDICATES MOMENT CONNECTION PER 2, 3 AND 12/S3.00.
 4. PROVIDE ANGLE FRAMING AROUND OPENING PER 7/S3.01.

- KEYNOTES:
- 1 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM. PROVIDE 36/4 DECK FASTENING PATTERN WITH (1) #10 TEK SCREW SIDELAPS PER SPAN.
 - 2 DECK BEARING ELEVATION (+28'-0").
 - 3 PROVIDE SLIP CRITICAL SHEAR CONNECTION AT END OF BEAM SHOWN. REFER TO 1/S3.00 FOR TYPICAL CONNECTION INFORMATION.
 - 4 HSS6x6x5/16. REFER TO 12/S3.01 FOR DETAIL AT COLUMN.
 - 5 HSS6x6x5/16. REFER TO 12/S3.01 SIM FOR DETAIL AT COLUMN.



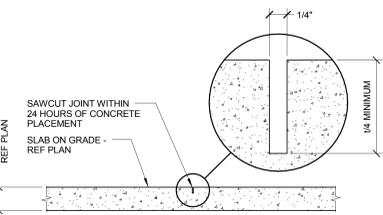
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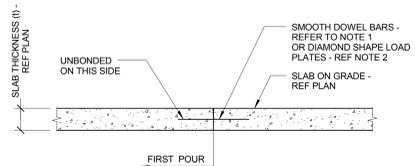
PROJECT # 14-005-00
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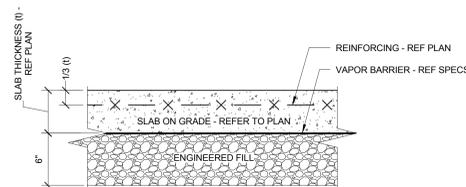


1 TYPICAL SLAB ON GRADE CONTROL JOINT
 1\"/>



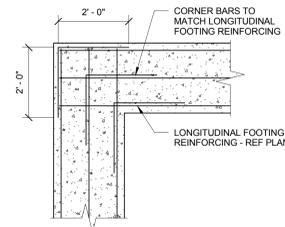
2 TYPICAL SLAB CONSTRUCTION JOINT
 3/4\"/>

NOTES:
 1. USE 1/2\"/>

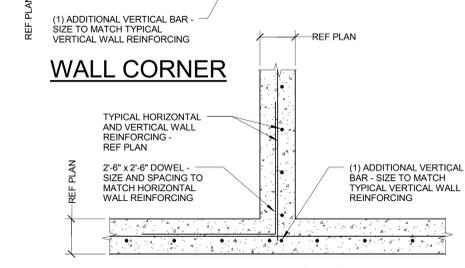
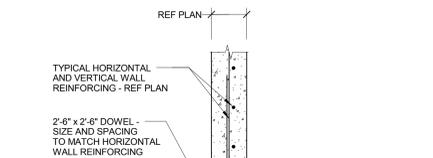


3 TYPICAL SLAB ON GRADE SECTION
 1 1/2\"/>

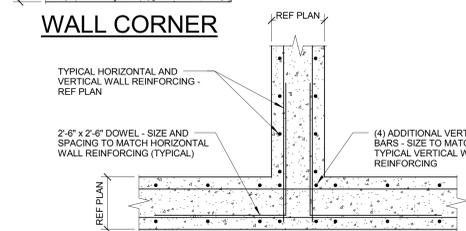
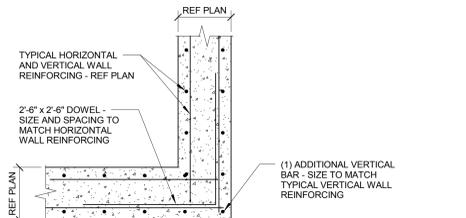
NOTES:
 1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.



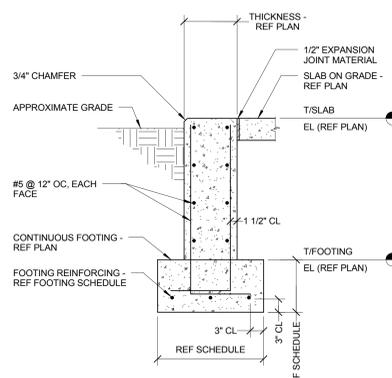
4 TYPICAL FOOTING CORNER BARS
 1/2\"/>



5 TYPICAL CONCRETE WALL DETAIL
 3/4\"/>

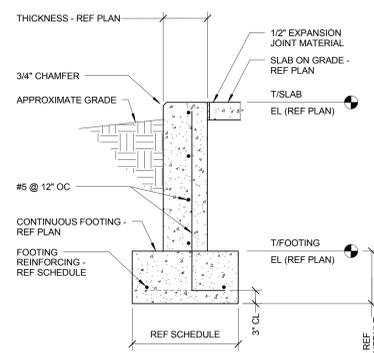


6 TYPICAL CONCRETE WALL DETAIL
 3/4\"/>

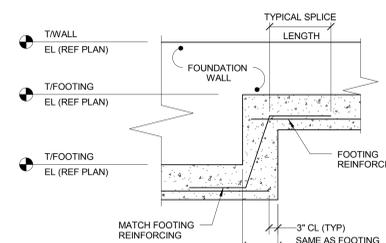


7 TYPICAL FOUNDATION WALL
 3/4\"/>

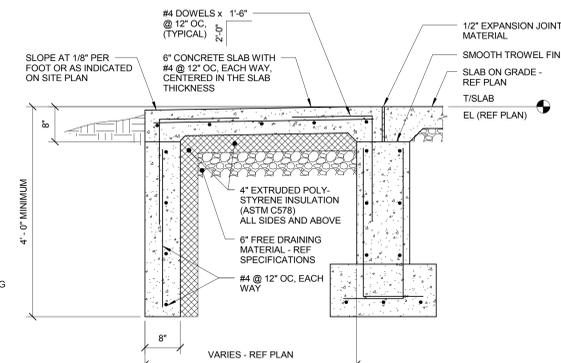
NOTES:
 1. AT SIM SLAB ON GRADE IS AT BOTH SIDES OF FOUNDATION WALL, DO NOT PROVIDE 3/4\"/>



8 TYPICAL FOUNDATION WALL
 3/4\"/>

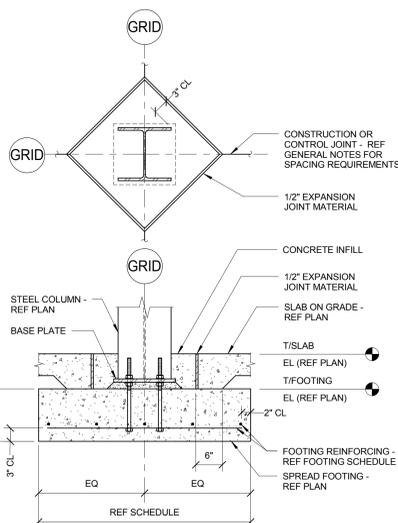


9 TYPICAL FOOTING STEP
 1/2\"/>

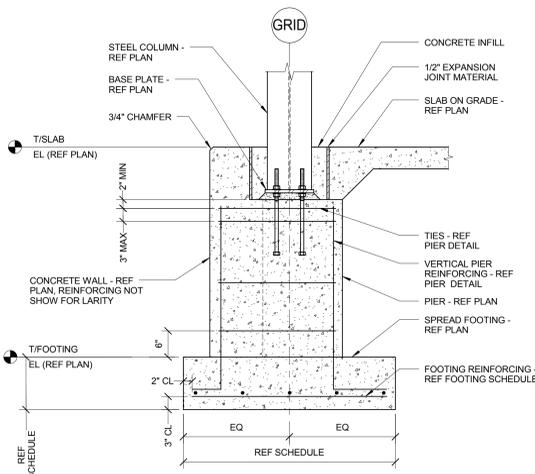


10 TYPICAL STOOP SECTION
 3/4\"/>

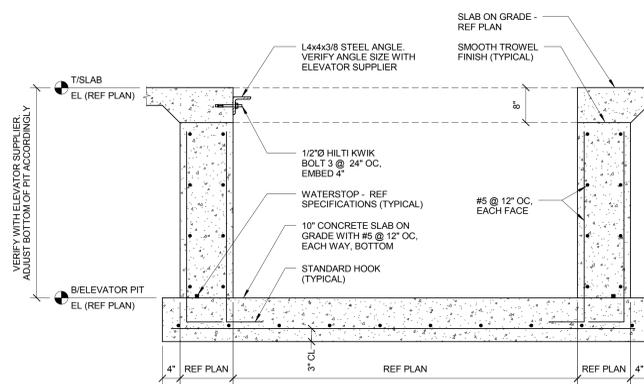
NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.
 2. REFER TO TYPICAL FOUNDATION WALL DETAIL FOR INFORMATION NOT SHOWN.



11 TYPICAL SPREAD FOOTING
 3/4\"/>

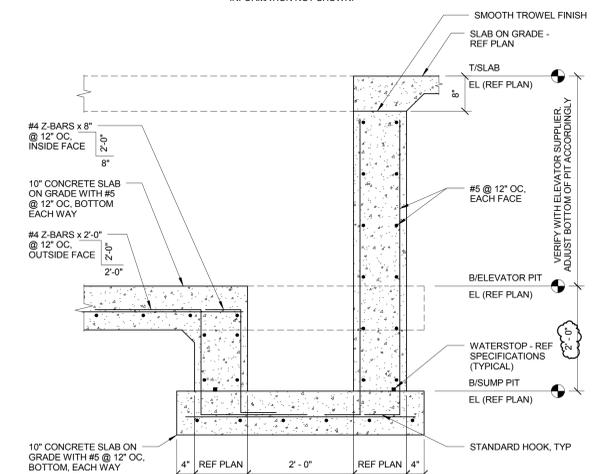


12 TYPICAL SPREAD FOOTING WITH PIER
 3/4\"/>



13 ELEVATOR PIT SECTION
 3/4\"/>

NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR PIT LADDER.



14 SUMP PIT SECTION
 3/4\"/>

NOTES:
 1. COORDINATE LOCATION OF SUMP WITH ELEVATOR SUPPLIER TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.

KEY PLAN:

SHEET STATUS: 6/30/15
BID PACKAGE 1
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

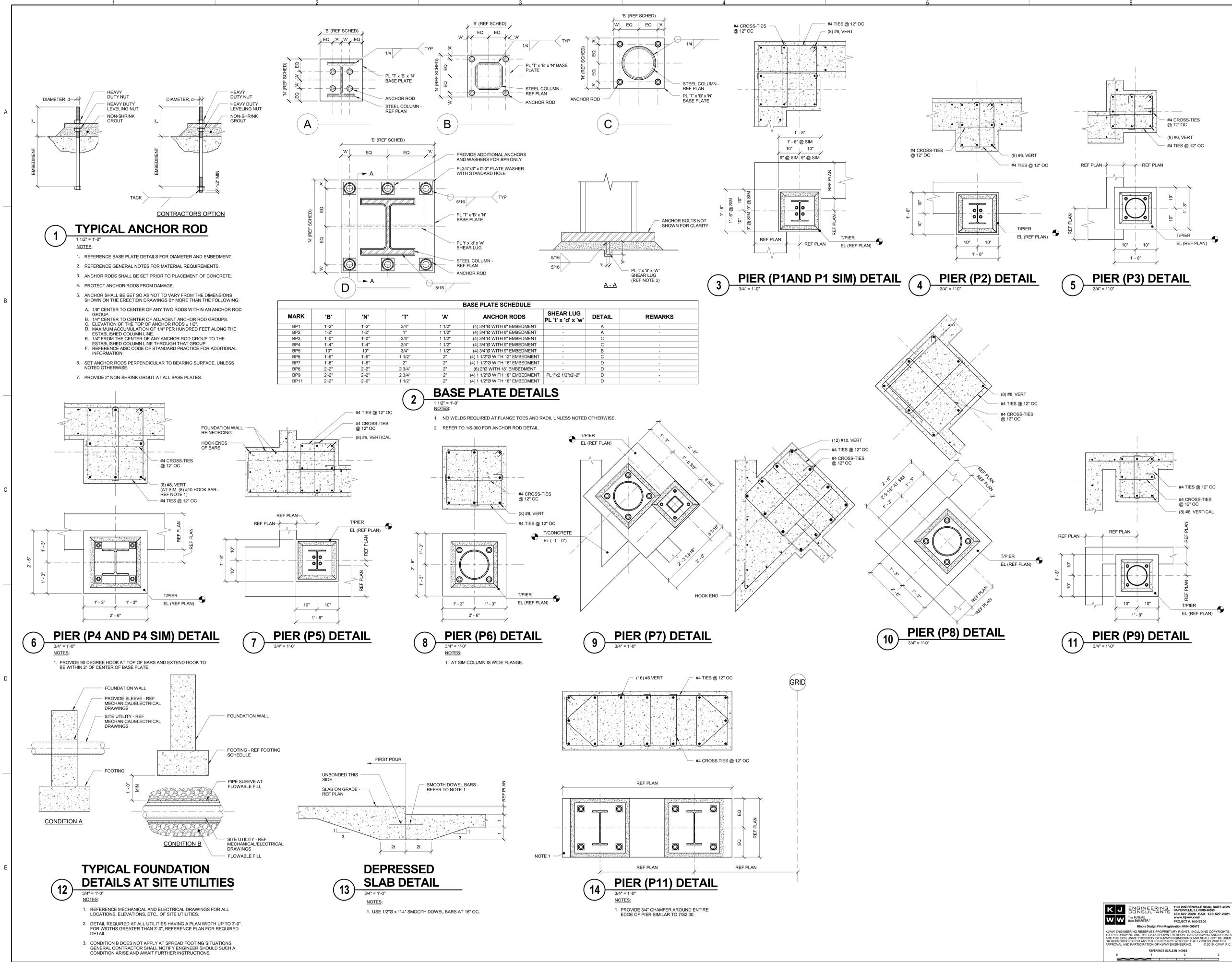
SHEET TITLE:
FOUNDATION
DETAILS

SHEET NUMBER:

S2.01

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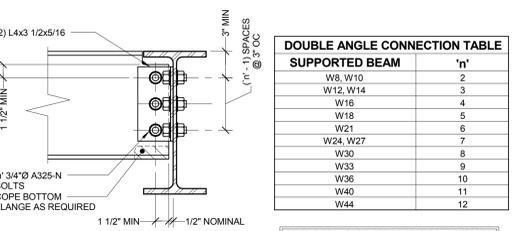
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SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
FOR REFERENCE ONLY
 NO. DESCRIPTION: DATE:

SHEET TITLE:
STEEL DETAILS

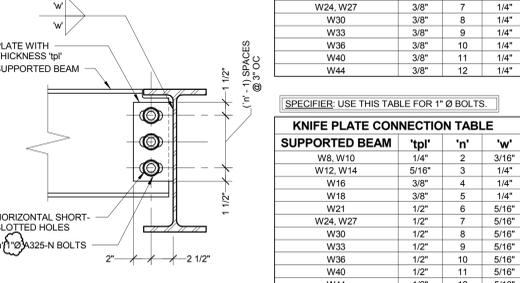
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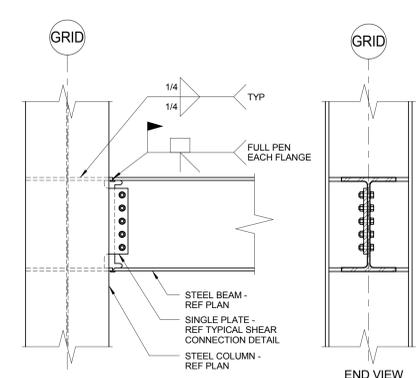
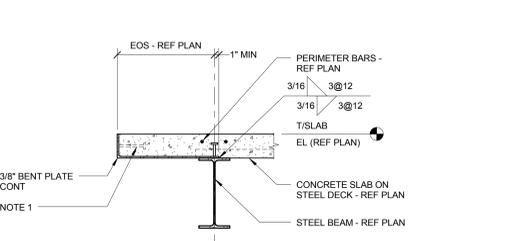
DOUBLE ANGLE CONNECTION TABLE			
SUPPORTED BEAM	'n'	'n'	'w'
W8, W10	2		
W12, W14	3		
W16	4		
W18	5		
W21	6		
W24, W27	7		
W30	8		
W33	9		
W36	10		
W40	11		
W44	12		

SPECIFIER: RAM STEEL CONNECTION CAPACITY TABLES BASED ON SUPPORT BEAM WITH 9" WIDE FLANGE RESULTING IN 4 1/2" COPE LENGTH IN BEAM.
 SPECIFIER: USE THIS TABLE FOR 3/4" Ø BOLTS.
 SPECIFIER: CONSIDER USING 3/4" Ø BOLTS ON PROJECTS WITH RELATIVELY LIGHT LOADS.

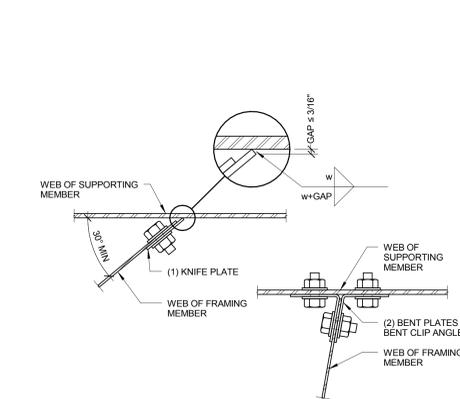


KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tp'	'n'	'w'
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	3/8"	4	1/4"
W18	5/16"	5	1/4"
W21	5/16"	6	1/4"
W24, W27	3/8"	7	1/4"
W30	3/8"	8	1/4"
W33	3/8"	9	1/4"
W36	3/8"	10	1/4"
W40	3/8"	11	1/4"
W44	3/8"	12	1/4"

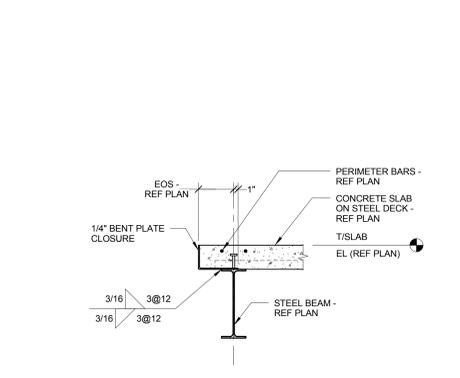
1 TYPICAL SHEAR CONNECTION
 1 1/2" = 1'-0"
 NOTES:
 1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
 2. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
 3. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
 4. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
 5. 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.



3 TYPICAL MOMENT CONNECTION INTO WEB
 3/4" = 1'-0"
 NOTES:
 1. STIFFENER PLATE THICKNESS SHALL MATCH LARGER FLANGE THICKNESS UNDO.
 2. OTHER FRAMING MEMBERS NOT SHOWN FOR CLARITY.
 3. BACKING SHALL BE USED FOR ALL FULL PENETRATION WELDS.

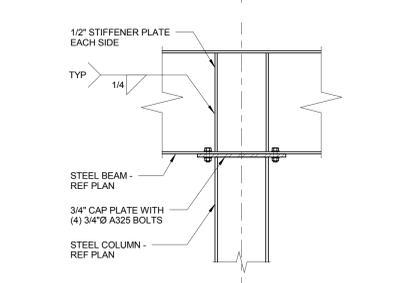
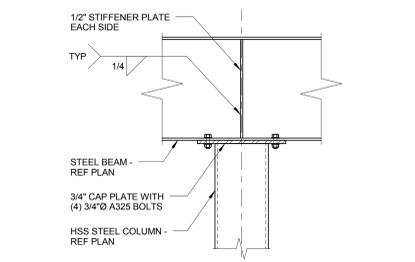


4 TYPICAL SKEWED CONNECTION
 3" = 1'-0"
 NOTES:
 1. DETAILER MAY SELECT DOUBLE BENT ANGLES, DOUBLE BENT PLATES, OR SINGLE KNIFE PLATE AS BEST APPLIES TO CONNECTION.
 2. 'w' IS WELD SIZE FROM TYPICAL SHEAR CONNECTION.

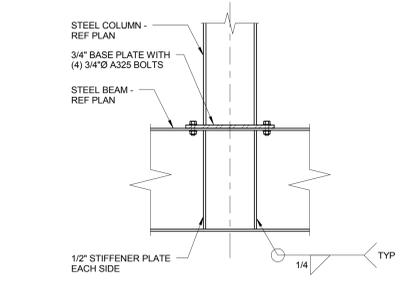
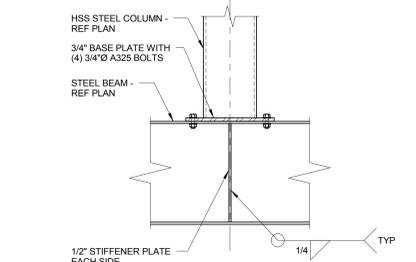


5 TYPICAL SLAB EDGE DETAIL
 3/4" = 1'-0"
 NOTES:
 1. AT LOCATIONS INDICATED ON PLAN PROVIDE 1/2" Ø x 6" LONG HEADED WELDED STUDS CENTERED IN SLAB @ 12" OC.

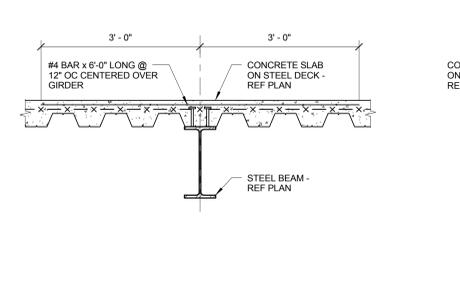
2 TYPICAL MOMENT CONNECTION INTO FLANGE
 3/4" = 1'-0"
 NOTES:
 1. STIFFENER PLATE THICKNESS SHALL MATCH LARGER FLANGE THICKNESS UNDO.
 2. BACKING SHALL BE USED FOR ALL FULL PENETRATION WELDS.
 3. OTHER FRAMING MEMBERS NOT SHOWN FOR CLARITY.
 4. MAX SLOPE OF STIFFENER PLATE IS 3 1/2". IF SLOPE IS GREATER THAN 3 1/2" OR PERPENDICULAR FRAMING REQUIRES STIFFENER, INSTALL MULTIPLE HORIZONTAL PLATES.



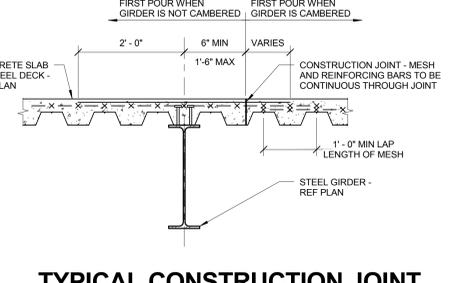
7 BEAM BEARING ON COLUMN
 3/4" = 1'-0"



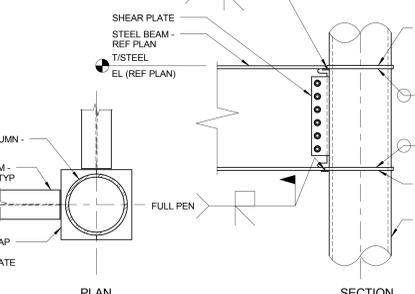
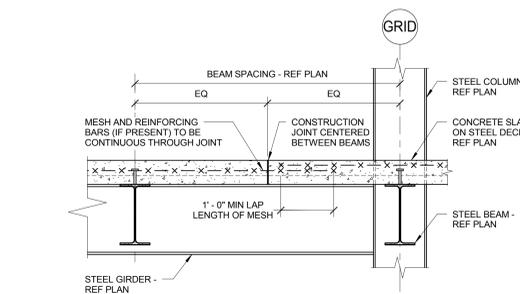
8 COLUMN BEARING ON BEAM
 3/4" = 1'-0"



9 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.



10 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.

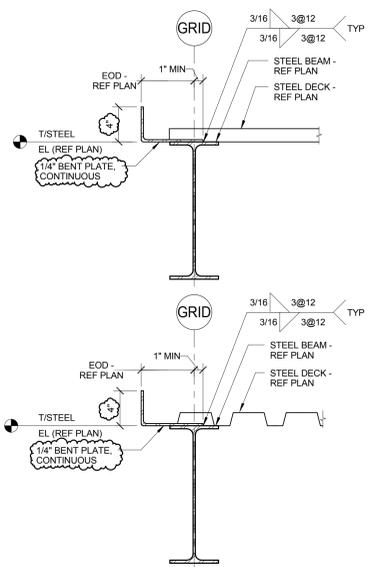


11 TYPICAL CONSTRUCTION JOINT PERPENDICULAR TO GIRDER DETAIL
 3/4" = 1'-0"
 NOTES:
 1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.

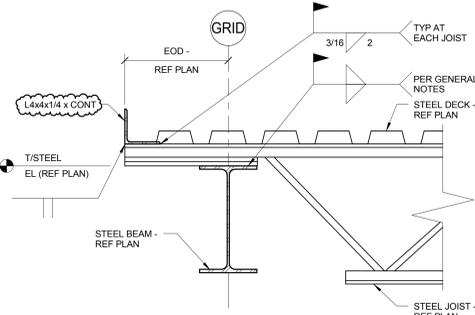
12 HSS PIPE MOMENT FRAME CONNECTION
 3/4" = 1'-0"
 NOTES:
 1. PROVIDE WIDTH OF PLATE = (COLUMN SIZE + 3") OR BEAM FLANGE, WHICHEVER IS MAXIMUM. COLUMN IS TO BE CONTINUOUS AND PLATE IS CUT AROUND COLUMN.
 2. AT ROOF PROVIDE 3/4" CAP PLATE ON COLUMN FOR CONNECTION TO BEAM FLANGE.

13 BOTTOM FLANGE BRACE
 3/4" = 1'-0"
 NOTES:
 1. PROVIDE PERIMETER BARS AND DEVELOP SIMILAR AT ALL OPENINGS IN SLAB LARGER THAN 1'-0"

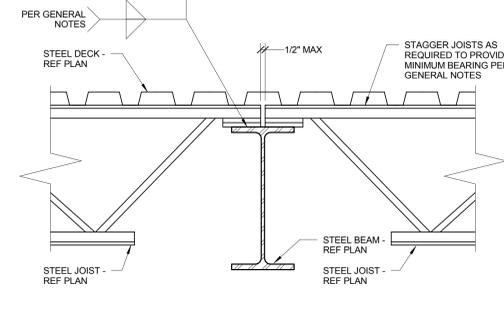
14 SLAB ON METAL DECK CORNER REINFORCING
 3/4" = 1'-0"
 NOTES:
 1. PROVIDE PERIMETER BARS AND DEVELOP SIMILAR AT ALL OPENINGS IN SLAB LARGER THAN 1'-0"



1 TYPICAL CLOSURE PLATE DETAIL
 1 1/2" = 1'-0"

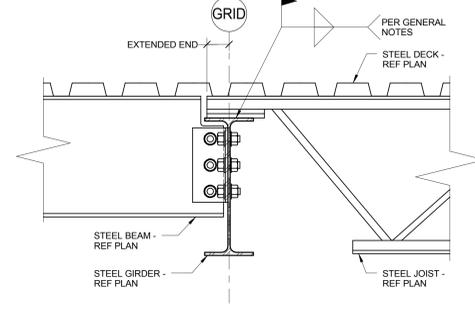


2 TYPICAL ROOF EDGE DETAIL
 1 1/2" = 1'-0"

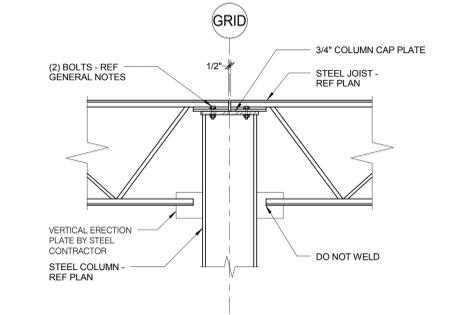


3 TYPICAL JOIST BEARING DETAIL
 1 1/2" = 1'-0"

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.

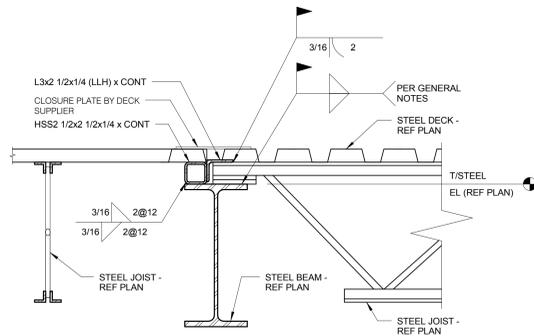


4 SECTION AT ROOF GIRDER
 1 1/2" = 1'-0"

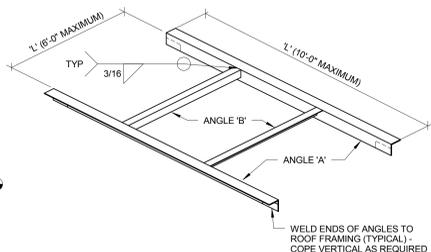


5 TYPICAL STEEL JOIST AT COLUMN
 3/4" = 1'-0"

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.



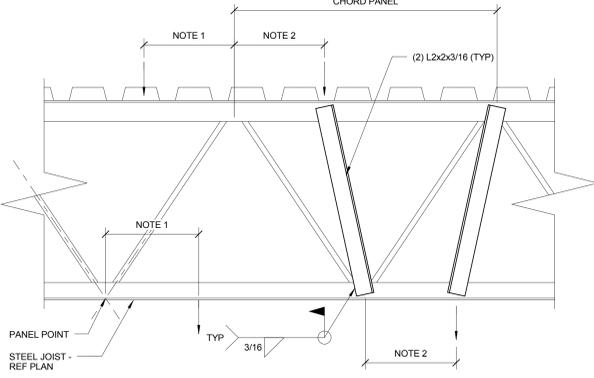
6 TYPICAL DECK DIRECTION CHANGE
 1 1/2" = 1'-0"



7 DECK OPENING FRAMING DETAIL
 3/4" = 1'-0"

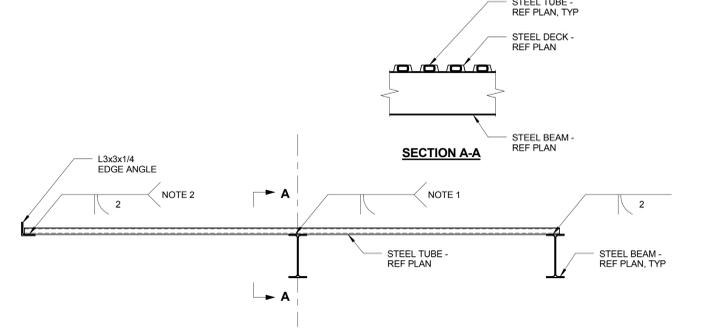
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE - SUMP PAN ONLY	NONE - SUMP PAN ONLY
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 8'-0"	L4x4x5/16	L4x4x1/4
8'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

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.



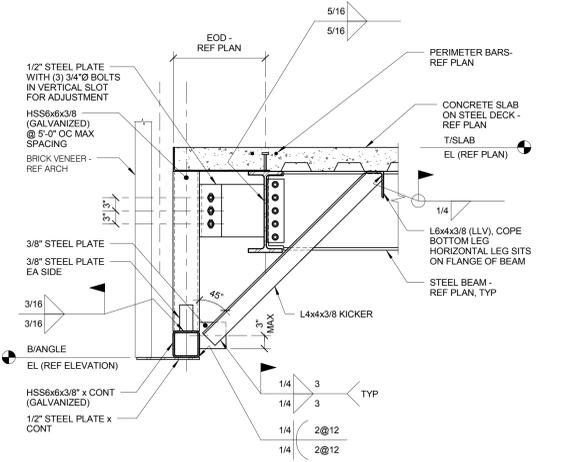
8 JOIST MODIFICATION DETAIL
 1 1/2" = 1'-0"

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.

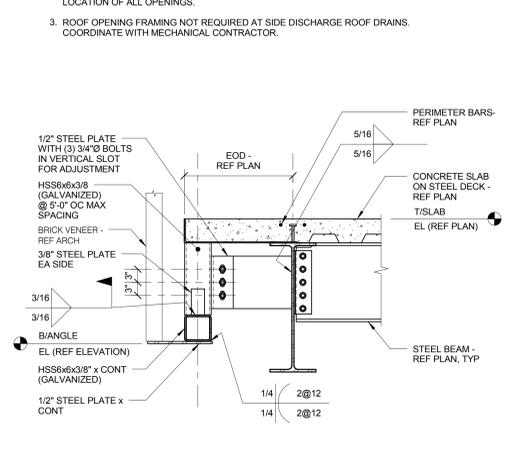


9 ROOF OVERHANG SUPPORT
 3/4" = 1'-0"

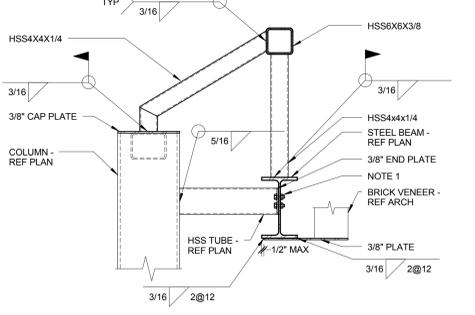
NOTES:
 1. PROVIDE WELD ALONG ENTIRE WIDTH OF BEAM FLANGE.
 2. PROVIDE WELD AT EVERY OTHER HSS.



10 SUSPENDED LINTEL DETAIL
 3/4" = 1'-0"

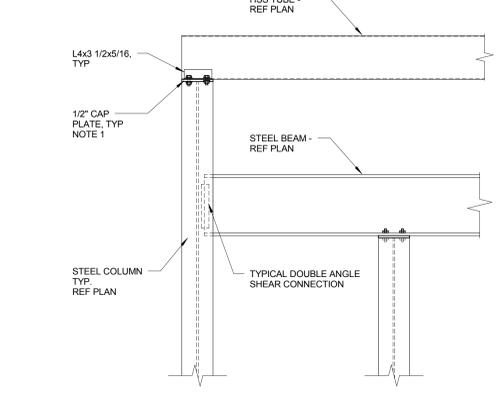


11 SUSPENDED LINTEL DETAIL
 3/4" = 1'-0"



12 HSS SCREEN WALL SUPPORT AT COLUMN
 3/4" = 1'-0"

NOTES:
 1. USE (2) BOLT SHEAR CONNECTION. REFER TO TYPICAL SHEAR CONNECTION FOR INFORMATION NOT SHOWN.
 2. AT SIM WIDE FLANGE BEAM RUNS CONTINUOUS PAST HSS CANTILEVER. PROVIDE TYPICAL DOUBLE ANGLE CONNECTION OFF OF HSS CANTILEVER TO PICK UP BEAM.



13 HSS SCREEN WALL SUPPORT AT COLUMN
 3/4" = 1'-0"

NOTES:
 1. CAP PLATE TO EXTEND OUT PAST COLUMN FLANGE AS NEEDED TO PICK UP TUBE AND BEAM.

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 DESIGN FIRM REGISTRATION #14-005-00

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 NO. DESCRIPTION: DATE:

SHEET TITLE:
STEEL DETAILS

SHEET NUMBER:
S3.01



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ROMEORVILLE CAMPUS EXPANSION
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 DKA PROJECT NO: 14-005

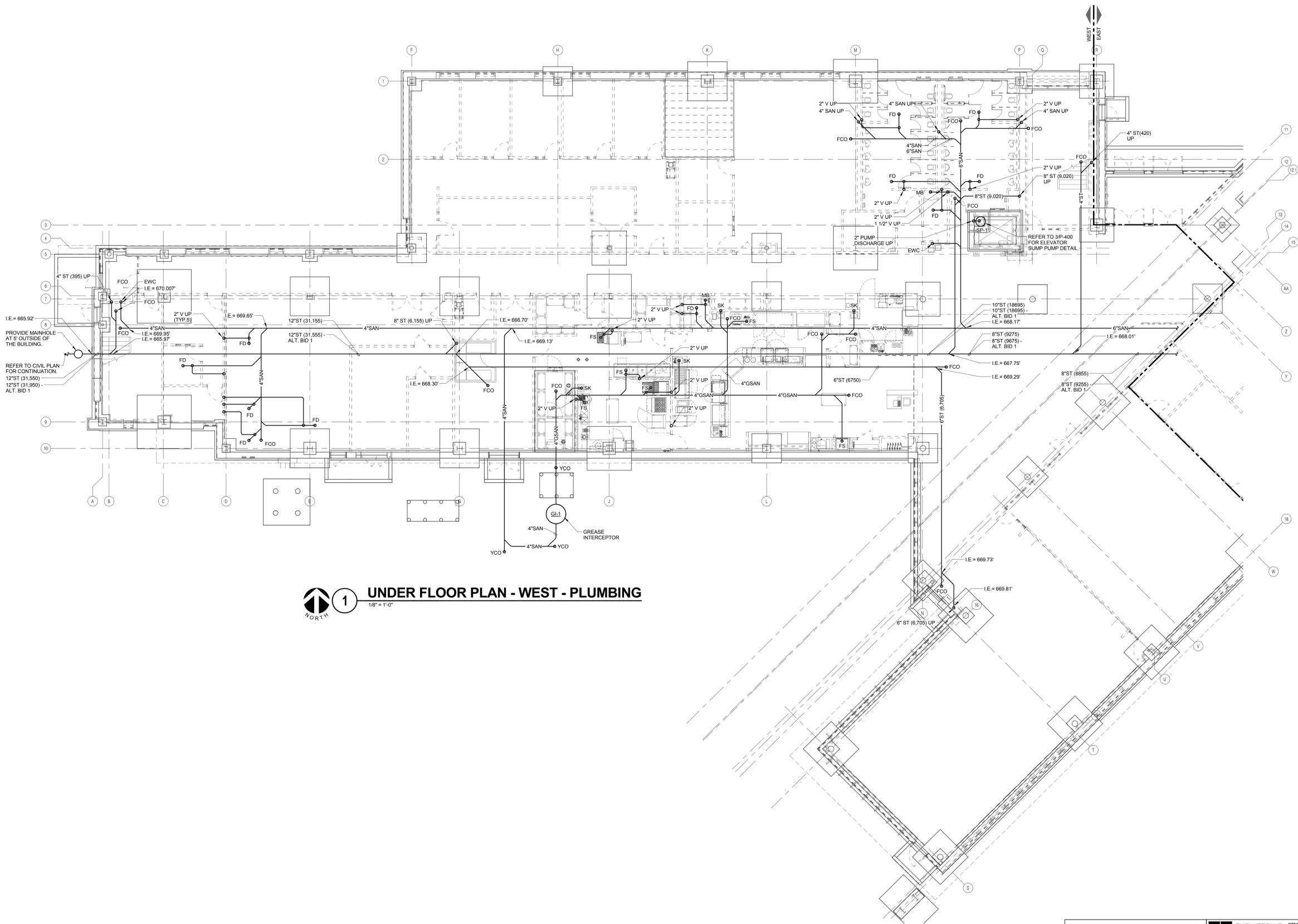
KEY PLAN:

SHEET STATUS: 6/30/15
BID PACKAGE 1
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FOR REFERENCE ONLY
 NO: DESCRIPTION: DATE:

SHEET TITLE:
UNDER FLOOR PLAN
- WEST - PLUMBING

SHEET NUMBER:

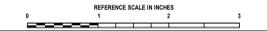
P1.01



1 UNDER FLOOR PLAN - WEST - PLUMBING
 1/8" = 1'-0"

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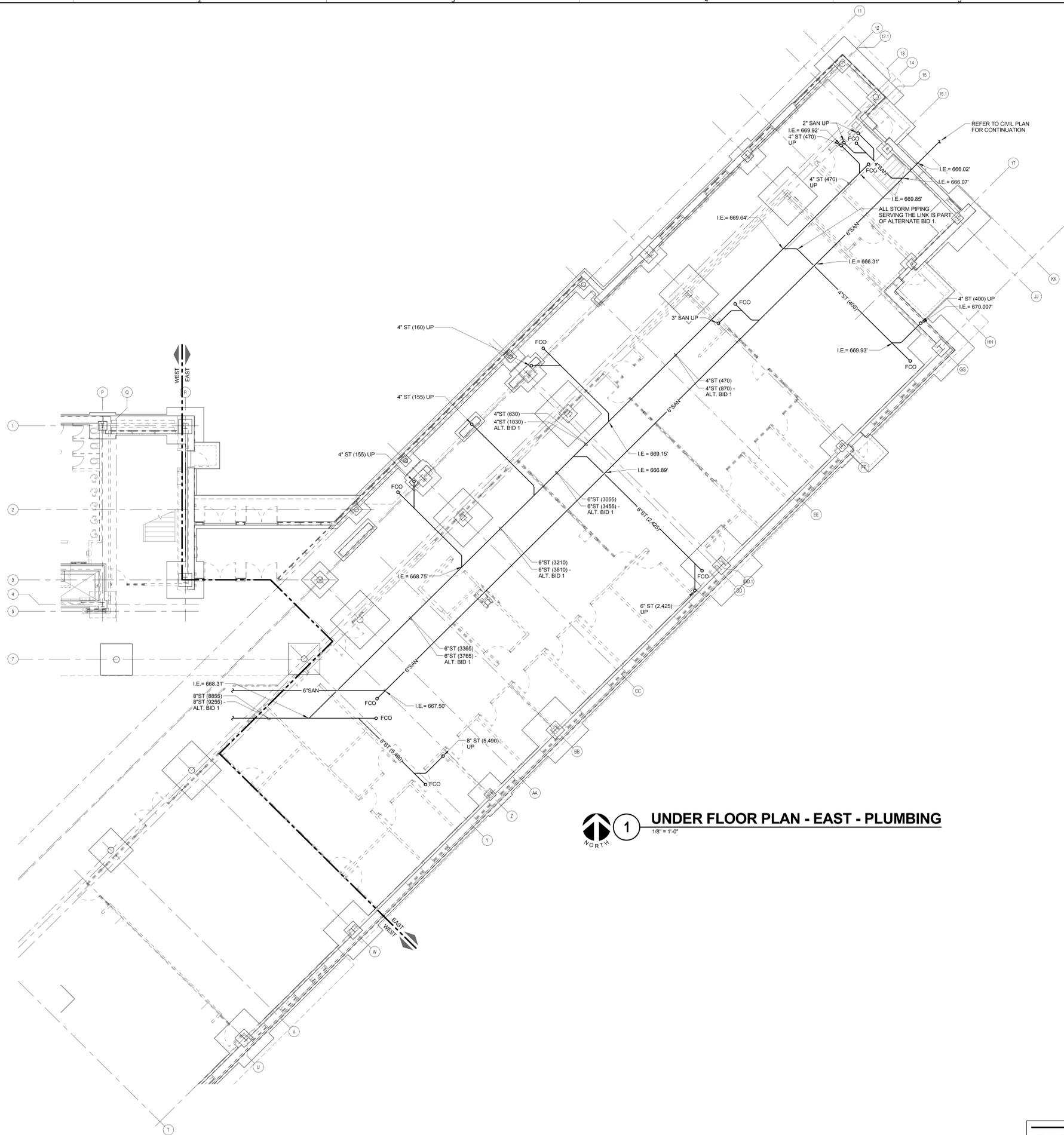


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ROMEIOVILLE CAMPUS EXPANSION
 1125 135th ST. ROMEIOVILLE, IL 60446
 DKA PROJECT NO: 14-005



1 UNDER FLOOR PLAN - EAST - PLUMBING
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:
UNDER FLOOR PLAN - EAST - PLUMBING

SHEET NUMBER:

P1.02

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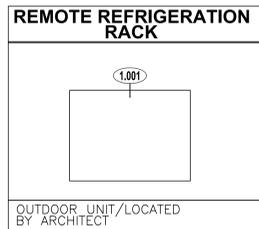
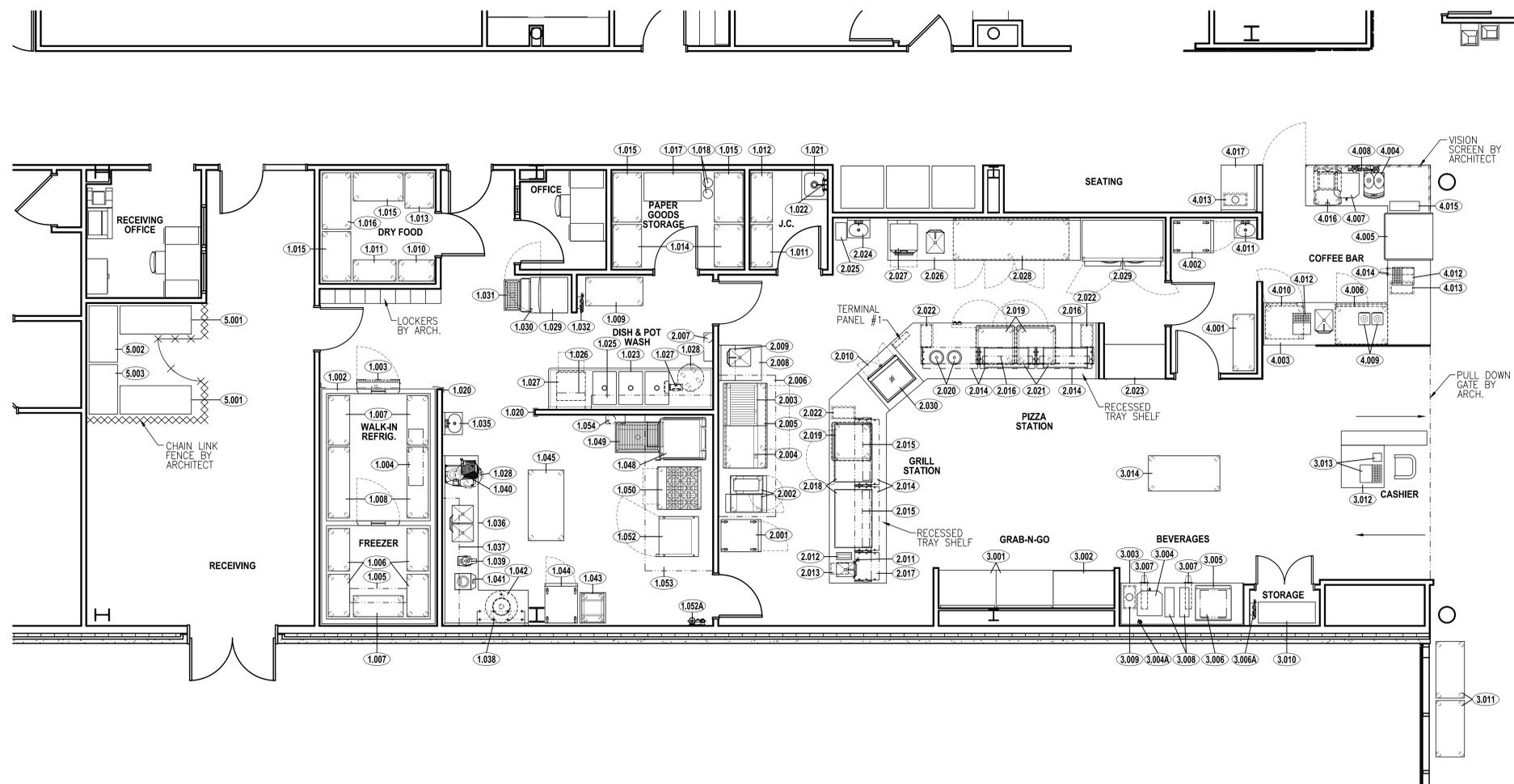


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STRUCTURAL AND MEP/FP ENGINEERING
 KJWW ENGINEERING CONSULTANTS
 1100 WARRENVILLE RD. SUITE
 400W NAPERVILLE, IL 60563
 P: 630.527.2320

FOOD SERVICE CONSULTANT
 GINI LITTLE INTERNATIONAL, INC.
 200 E. HOWARD AVE. SUITE 212
 DES PLAINES, IL 60018
 P: 847.298.0088

**JOLIET JUNIOR COLLEGE
 ROMEVILLE CAMPUS EXPANSION**
 1125 135th ST. ROMEVILLE, IL 60446
 DKA PROJECT NO: 14-005



SCHEDULE OF EQUIPMENT			SCHEDULE OF EQUIPMENT			SCHEDULE OF EQUIPMENT			SCHEDULE OF EQUIPMENT						
ITEM NO.	QTY	DESCRIPTION	REMARKS	ITEM NO.	QTY	DESCRIPTION	REMARKS	ITEM NO.	QTY	DESCRIPTION	REMARKS	ITEM NO.	QTY	DESCRIPTION	REMARKS
1.001	1	Remote Refrigeration Rack		1.036	1	Worktable with Sinks		2.014	5	Sneeze Guard, Single Full-Service, Stationary	w/ Lights	3.013	1	POS Unit & Scale	NIKEC - By Owner
1.002	1	Walk-In Box		1.037	1	Wall Shelf		2.015	2	Heat Lamp	Mounted on Food Shields	3.014	1	Snack Display	NIKEC - By Millwork Trades
1.003	1	Air Curtain		1.038	1	Pot Rack		2.016	2	Heat Lamp	Mounted On Food Shields	4.001	1	Plastic Shelving Unit	
1.004	1	Evaporator Coil +35 Degrees	Remote Refrigeration	1.039	1	Food Processor		2.017	1	Sneeze Guard, Single Full-Service, Stationary		4.002	1	Reach-in Refrigerator	
1.005	1	Evaporator Coil -10 Degrees	Remote Refrigeration	1.040	1	Meat Slicer		2.018	2	Heated Shelf Food Warmer		4.003	1	Cafe Front Counter	
1.006	4	Plastic Shelving Unit		1.041	1	Induction Range		2.019	3	Heated Cabinet, Mobile		4.004	1	Espresso Cappuccino Machine	
1.007	3	Plastic Shelving Unit		1.042	1	Vegetable Dryer		2.020	2	Drop-In Hot Well	Auto-Fill Model	4.005	1	Service/Self-Service Combo Merchandiser	Remote Refrigeration
1.008	2	Plastic Shelving Unit		1.043	1	Pan Rack, Bun		2.021	2	Heated Shelf Food Warmer		4.006	1	Reach-in Undercounter Refrigerator	
1.009	1	Plastic Shelving Unit		1.044	1	Reach-in Refrigerator		2.022	3	Garbage Can		4.007	1	Coffee Maker	NIKEC - By Vendor/Supplier
1.010	1	Wire Shelving Unit		1.045	1	Mobile Worktable		2.023	1	Refrigerated Merchandiser		4.008	1	Water Filter Assembly	Provides interconnected filtered water supply to items #4.004 & 4.007
1.011	2	Wire Shelving Unit		1.046	1	Open Number		2.024	1	Hand Sink		4.009	2	Bar Blender	
1.012	1	Wire Shelving Unit		1.047	1	Open Number		2.025	1	Garbage Can		4.010	1	Reach-in Undercounter Freezer	
1.013	1	Wire Shelving Unit		1.048	1	Tilting Skillet, Electric		2.026	1	Back Counter with Sink		4.011	1	Hand Sink	
1.014	2	Wire Shelving Unit		1.049	1	Floor Trough		2.027	1	Microwave Convection Oven		4.012	2	POS Unit	NIKEC - By Owner
1.015	4	Wire Shelving Unit		1.050	1	HD Range, 36", 6 Open Burners		2.028	1	Reach-in Undercounter Refrigerator		4.013	1	Garbage Can	
1.016	1	Wire Shelving Unit		1.051	1	Open Number		2.029	1	Roll-in Refrigerator		4.014	3	Disposable Cup Dispenser	
1.017	1	Bag & Box Soda System	NIKEC - By Vendor/Supplier	1.052	2	Combi Oven	Double-Stacked Units	2.030	1	Drop-In Refrigerated Merchandiser	Remote Refrigeration	4.015	1	Lid Dispenser	
1.018	2	CO2 Tanks	NIKEC - By Vendor/Supplier	1.052A	1	Water Filter Assembly	Provides interconnected filtered water supply to items #1.052	2.031	1	Open Number		4.016	1	Mobile Ice Bin	
1.019	1	Open Number		1.053	1	Exhaust Hood		2.032	1	Open Number		4.017	1	Condiment Counter	NIKEC - By Millwork Trades
1.020	3	Corner Guards		1.054	1	Fire Suppression System		3.001	2	Open Merchandiser	Remote Refrigeration	5.001	1	Wire Shelving Unit	
1.021	1	Mop Sink		1.055	1	Open Number		3.002	1	Refrigerated Merchandiser		5.002	1	Wire Shelving Unit	
1.022	1	Janitor's Sink Faucet & Air Gap		1.056	1	Open Number		3.003	1	Beverage Counter		5.003	1	Wire Shelving Unit	
1.023	1	Three (3) Compartment Sink		2.001	1	Reach-In Freezer		3.004	1	Coffee Maker	NIKEC - By Vendor/Supplier				
1.024	1	Pot Washer	Connect unit to soiled dish basin in item # 1.023	2.002	1	Fryer		3.004A	1	Water Filter Assembly	Provides interconnected filtered water supply to item # 3.004				
1.025	1	Pot & Utensil Rack		2.003	1	HD Range, 36", Charbroiler		3.005	1	Soda Fountain	NIKEC - By Vendor/Supplier				
1.026	1	Rack Overshelf, Wall-Mounted		2.004	1	HD Range, 36", Griddle		3.006	1	Nugget Ice Maker	Water Cooled				
1.027	1	Dishwasher, Undercounter		2.005	1	Equipment Stand, Refrigerated Base		3.006A	1	Water Filter Assembly	Provides interconnected filtered water supply to item #3.006				
1.028	2	Garbage Can		2.006	1	Exhaust Hood		3.007	6	Disposable Cup Dispenser					
1.029	1	Ice Cuber	Water Cooled	2.007	1	Fire Suppression System		3.008	2	Lid Dispenser					
1.030	1	Ice Bin for Ice Machines		2.008	1	Back Counter with Sink		3.009	1	Garbage Can					
1.031	1	Floor Trough		2.009	1	Wall Shelf		3.010	1	Wire Shelving Unit					
1.032	1	Water Filter Assembly	Provides interconnected filtered water supply to item # 1.029	2.010	1	Servery Front Counter		3.011	2	Mobile Condiment Counters					
1.033	1	Open Number		2.011	1	Panel-Mounted Soap Dispenser		3.012	1	Cashier's Counter					
1.034	1	Open Number		2.012	1	Countertop Mounted Paper Towel Dispenser									
1.035	1	Hand Sink		2.013	1	Garbage Can									

NIKEC - NOT IN KITCHEN EQUIPMENT CONTRACT

KEY PLAN:

SHEET STATUS: 6/30/15
BID PACKAGE 1
60% CONSTR. DOCS. -
FOR REFERENCE ONLY
 NO. DESCRIPTION: DATE:

SHEET TITLE:
FOODSERVICE
EQUIPMENT PLAN &
SCHEDULE

SHEET NUMBER:

QF101