

GENERAL NOTES – CONTINUED:

STRUCTURAL STEEL NOTES:

- REFERENCE STANDARDS:
EXCEPT AS INDICATED, ALL DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE GOVERNED BY:
AISC MANUAL OF STEEL CONSTRUCTION – 13TH EDITION, 2005.
AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, 2005.
AISC FCD QUALITY CERTIFICATION PROGRAM, 1995.
AWS D1.1, STRUCTURAL WELDING CODE – STEEL, 2004.
- MATERIALS:
WIDE FLANGE SHAPES: ASTM A992, $F_y = 50$ KSI
RECTANGULAR HSS: ASTM A500 GRADE B, $F_y = 46$ KSI
ROUND HSS: ASTM A500 GRADE B, $F_y = 42$ KSI
PIPE: ASTM A53 GRADE B, $F_y = 35$ KSI
CHANNELS: ASTM A36, $F_y = 36$ KSI
ANGLES: ASTM A36, $F_y = 36$ KSI
HIGH STRENGTH PLATES: ASTM A572, $F_y = 50$ KSI
PLATES AND MISCELLANEOUS STEEL: ASTM A36, $F_y = 36$ KSI
WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70
HIGH STRENGTH BOLTS: ASTM A 325
ANCHOR RODS: ASTM F 1554, GRADE 36
- PROVIDE CONNECTIONS FOR MEMBERS PER TYPICAL DETAILS INDICATED ON SHEET S-500.
- WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED BY THE AWS STANDARD QUALIFICATION PROCEDURE TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
- MINIMUM SIZE OF ALL FILLET WELDS SHALL CONFORM TO AISC SPECIFICATIONS.
- ALL WELDS ALONG LENGTHS OF MEMBERS INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS BUT NOT SIZED SHALL BE A MINIMUM OF 3/16"x3" FILLET WELD.
- ALL FASTENERS USED FOR CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE DIRECT TENSION INDICATING BOLTS. FASTENERS MAY NOT BE REUSED ONCE INSTALLED.
- PAINT AND PROTECTION:
TOUCH UP PAINT ON FASTENERS, WELDS AND ABRADED AREAS AFTER ERECTION. STEEL ITEMS EXPOSED TO WEATHER IN FINISHED STRUCTURE SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, UNLESS OTHERWISE NOTED. ALL FASTENERS USED IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
- PROVIDE APPROVAL FROM THE ENGINEER OF RECORD FOR ANY OPENINGS IN MEMBERS NOT INDICATED IN THESE DOCUMENTS.
- GROUT UNDER BEARING PLATES SHALL BE OF NON-SHRINK, NON-METALLIC COMPOSITION.
- ANGLE FRAME MEMBERS AROUND OPENINGS SHALL BE MITERED, WELDED AND GROUND SMOOTH.
- FABRICATE STRUCTURAL STEEL MEMBERS WITH NATURAL CAMBER UP EXCEPT AS INDICATED.
- PUNCH, SUB-PUNCH AND REAM OR DRILL ALL BOLT HOLES. DO NOT USE A CUTTING TORCH TO ENLARGE BOLT HOLES, UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER OF RECORD.

STEEL DECK NOTES:

- REFERENCE STANDARDS:
EXCEPT AS INDICATED, DESIGN, MANUFACTURE AND ERECTION OF COMPOSITE FLOOR DECK, FORM DECK AND ROOF DECK SHALL BE GOVERNED BY:
SDI DESIGN MANUAL FOR COMP DECKS, FORM DECKS AND ROOF DECKS, 2007.
SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION, 2004.
AWS D1.3, STRUCTURAL WELDING CODE – SHEET STEEL, 1998.

MATERIALS:
CF: 1.5 TYPE C, 20 GAGE, STEEL FORM DECK
STEEL DECK: ASTM A 653, $F_y = 33$ KSI
WELDING ELECTRODES: AWS A5.1, A5.5, OR A5.18, SERIES E60

DECK TYPE	THICKNESS (IN)	I_p (IN ⁴)	I_n (IN ⁴)	S_p (IN ³)	S_n (IN ³)
CF	0.0358 (20 GA)	0.2220	0.1860	0.2310	0.2240

- ATTACH DECK TO SUPPORTING STRUCTURE AS INDICATED ON DECK ATTACHMENT SCHEDULES. ATTACHMENT MUST COMPLY WITH SDI DIAPHRAGM DESIGN MANUAL LOAD TABLES. ATTACHMENT SHALL BE BY PUDDLE WELDS, UNLESS NOTED OTHERWISE.
- PROVIDE 16 GA. (0.0598") TERMINATION STRIPS WHERE EDGE OF DECK DOES NOT CONTACT SUPPORTING STRUCTURE.
- FORM DECK SHALL BE CONTINUOUS OVER TWO SPANS WHERE POSSIBLE.

LOCATION OF INFORMATION

- FOR MATERIAL STRENGTHS, SEE GENERAL STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN. FOR EXACT DIMENSIONS, LOCATIONS, JOINT AND SCORE LINES, SEE CIVIL DRAWINGS.
- FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. FOR EXACT SIZE, NUMBER, AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS. VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR THROUGH ARCHITECT.
- DETAILS MARKED "TYPICAL" MAY NOT BE CUT ON PLANS.
- C.J. – AS SHOWN ON PLAN INDICATES LOCATION OF EITHER KEYED OR SAW CUT CONTROL JOINT IN SLAB ON GRADE AT CONTRACTOR'S OPTION, SEE GENERAL STRUCTURAL NOTES AND PLANS.
- FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- CONTRACTOR TO VERIFY, AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (i.e. BEAMS, JOISTS, COMPOSITE JOISTS & BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE ELEMENTS.
- ALL SCHEDULE MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THE PLANS WHERE THE SCHEDULES OCCUR. SCHEDULES ARE TYPICAL TO THE PROJECT.

PLAN LEGEND

SYMBOL	DESCRIPTION	REMARKS
	SECTION CUT SHOWN ON PLANS	X= SECTION OR DETAIL NUMBER Y= SHEET REFERENCE
	DETAIL CALLOUT SHOWN ON PLANS	X= SECTION OR DETAIL NUMBER Y= SHEET REFERENCE
	ELEVATION CALLOUT SHOWN ON PLANS	X=ELEVATION NUMBER Y=SHEET REFERENCE
	ROOF TOP MECH EQUIP	SEE PLANS FOR LOCATIONS
	OPENING IN FLOOR, WALLS, OR FRAMING	VERIFY OPENING LOCATIONS W/ ARCH'L AND MECH DRAWINGS
	ARCH'L DOOR SIZE	REFER TO ARCH'L DRAWINGS FOR DOOR SCHEDULE.
	MOMENT CONNECTION	
	SLIP CONNECTION	
	BEAM CONTINUITY CONNECTION	
	SAG ROD	
	SPLICE LOCATION	
	BOTTOM FLANGE BRACE TO PARALLEL MEMBER	
	BOTTOM FLANGE BRACE TO PARALLEL MEMBER	
	SLOPES DOWN	
	[XX]	SPOT ELEVATION
	(X)	QUANTITY OF WELDED SHEAR STUD CONNECTORS TO BE EVENLY SPACED IN THE SPAN INDICATED

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	HSS	HOLLOW STRUCTURAL SECTION
AC	AIR CONDITIONER	IFW	INSIDE FACE OF WALL
AFF	ABOVE FINISHED FLOOR	K (KIP)	1,000 POUNDS
ALT	ALTERNATE	L	ANGLE
AB	ANCHOR BOLT	LL	LIVE LOAD
ARCH	ARCHITECT	LBS (#)	POUNDS
ARCH'L	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
@	AT (MEASUREMENT)	LLV	LONG LEG VERTICAL
BM	BEAM	LDH	LONG DIMENSION HORIZONTAL
BFF	BELOW FINISHED FLOOR	LDV	LONG DIMENSION VERTICAL
BOB	BOTTOM OF BEAM	MFR('S)	MANUFACTURER('S)
BOD	BOTTOM OF DECK	MCJ (MAS CJ)	MASONRY CONTROL JOINT
BOF	BOTTOM OF FOOTING	MECH	MECHANICAL
BRG	BEARING	N/A	NOT APPLICABLE
CIP	CAST IN PLACE	NTS	NOT TO SCALE
⊕	CENTERLINE	OC	ON CENTER
⊕ BM	CENTERLINE OF BEAM	OFW	OUTSIDE FACE OF WALL
⊕ COL	CENTERLINE OF COLUMN	OPP	OPPOSITE
⊕ FTG	CENTERLINE OF FOOTING	PC	PRECAST CONCRETE
⊕ WALL	CENTERLINE OF WALL	PLF	POUNDS PER LINEAR FOOT
CLR	CLEAR	PREFAB	PREFABRICATED
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONC CJ	CONCRETE CONTROL JOINT	PSI	POUNDS PER SQUARE INCH
CONC SJ	CONCRETE SAWCUT JOINT	RE:	REFERENCE TO
CMU	CONCRETE MASONRY UNIT	REINF	REINFORCING
CONN	CONNECTION	SLH	SHORT LEG HORIZONTAL
CONT	CONTINUOUS	SLV	SHORT LEG VERTICAL
DL	DEAD LOAD	SIM	SIMILAR
DIA, ⌀	DIAMETER	SQ	SQUARE
DN	DOWN	STD	STANDARD
DWG(S)	DRAWING(S)	TL	TOTAL LOAD
EOS	EDGE OF SLAB	TOB (T/ BM)	TOP OF BEAM
ELEV	ELEVATION	TOD	TOP OF DECK
EQ	EQUAL	TOF (T/ FTG)	TOP OF FOOTING
EQUIP	EQUIPMENT	TOL	TOP OF LEDGER
EXP BOLT	EXPANSION BOLT	TOM (T/ CMU)	TOP OF MASONRY
EXP JT (EJ)	EXPANSION JOINT	TOP (T/ P)	TOP OF PLATE
EW	EACH WAY	TOS (T/ STL)	TOP OF STEEL
FF	FINISHED FLOOR	TOW (T/ WALL)	TOP OF WALL
FOM	FACE OF MEMBER	TYP	TYPICAL
FOS	FACE OF STEEL	UNO	UNLESS NOTED OTHERWISE
FOW	FACE OF WALL	VERT	VERTICAL
GA	GAGE	WF	WIDE FLANGE
GALV	GALVANIZED	WWR	WELDED WIRE REINFORCING
GSN	GENERAL STRUCTURAL NOTES	W/	WITH
GLB	GLUED-LAMINATED BEAM	W/O	WITHOUT
HORZ	HORIZONTAL		

PRELIMINARY NOT FOR CONSTRUCTION

	USER NAME = MAC	DESIGNED — KLT	REVISED — — —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PEORIA STREET STATION GENERAL NOTES, ABBREVIATIONS & SYMBOLS	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED — AFK	REVISED — — —			2090	2013-011R	COOK	356	193
	PLOT DATE = 10/28/13	DRAWN — MAC	REVISED — — —			CONTRACT NO. 60W29		ILLINOIS FED. AID PROJECT		FED. AID PROJECT
SHEET NO. S-002 OF 117 SHEETS										