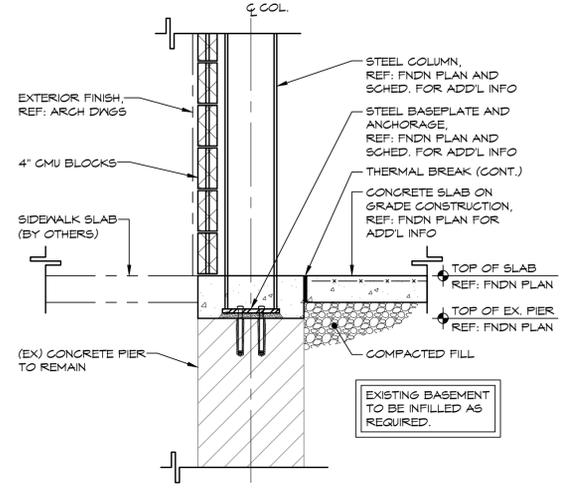
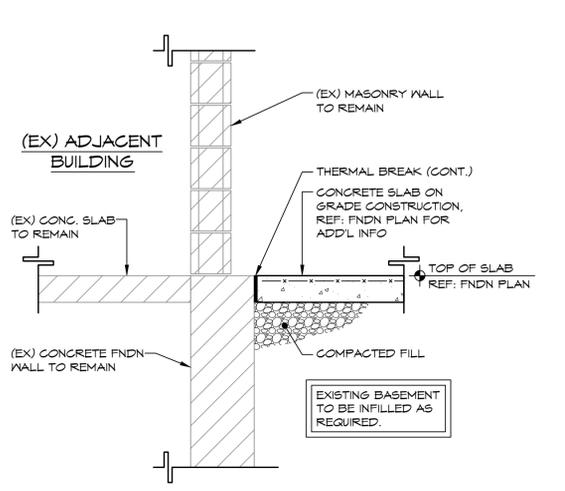


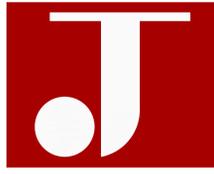
1 EXTERIOR FOUNDATION WALL DETAIL
SCALE: 3/4"=1'-0"



2 EXTERIOR FOUNDATION WALL DETAIL
SCALE: 3/4"=1'-0"



3 EXTERIOR FOUNDATION WALL DETAIL
SCALE: 3/4"=1'-0"



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NEW JERSEY LICENSE: GE 38186
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ISSUED FOR BIDDING

NO.	DATE	REVISIONS
1	09/09/22	ISSUED FOR BIDDING

Proposed Building Renovation
Pearl River Shopping Center
100 North Middletown Road
Pearl River, New York

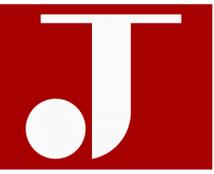
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DRAWING TITLE:

FOUNDATION DETAILS

DRAFTED BY: NAR
REVIEWED BY: JCT
PROJECT NUMBER: 2200_17
DRAWING SCALE: AS NOTED
DRAWING NUMBER:

S201



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1	09/09/22	ISSUED FOR BIDDING

Proposed Building Renovation
 Pearl River Shopping Center
 100 North Middletown Road
 Pearl River, New York

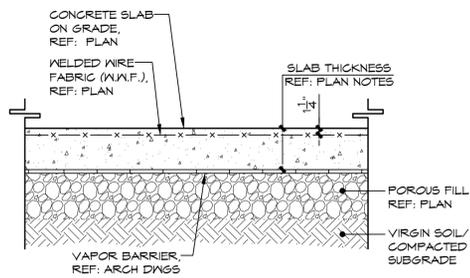
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DRAWING TITLE:

TYPICAL FOUNDATION DETAILS

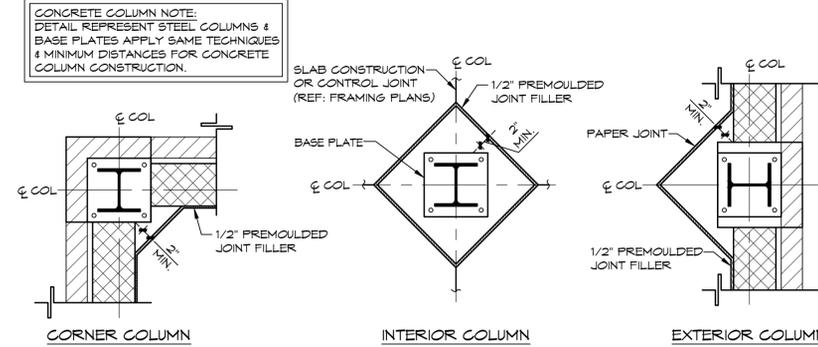
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 REVIEWED BY: JCT
 PROJECT NUMBER: 2200_17
 DRAWING SCALE: AS NOTED
 DRAWING NUMBER:

S501

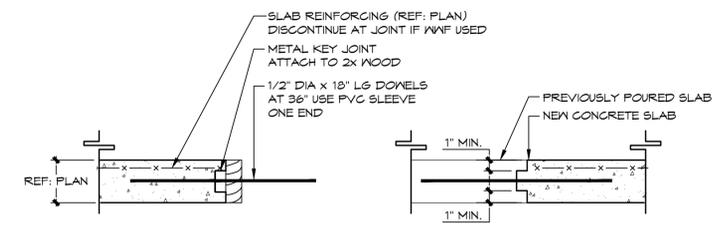


FIBROUS REINFORCEMENT ALTERNATE: CONTRACTOR MAY SUBSTITUTE SIKAFIBERMESH 300 REINFORCEMENT OR APPROVED EQUAL TO CONCRETE MIX IN LIEU OF REINFORCEMENT. (NOT RECOMMENDED FOR POLISH CONCRETE).

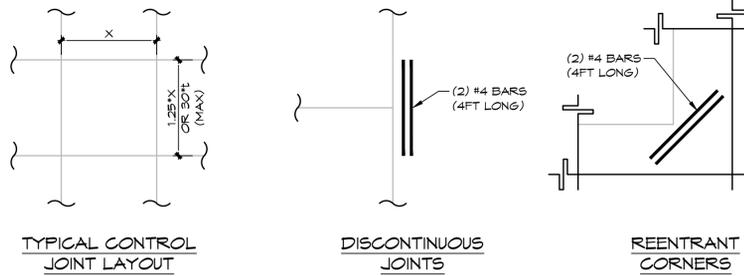
TYPICAL CONCRETE SLAB ON GRADE



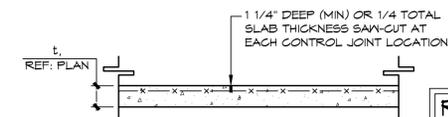
TYPICAL SLAB ISOLATION JOINT



STEP ONE
 STEP TWO
 REMOVE WOOD FORMS FOR SECOND POUR.



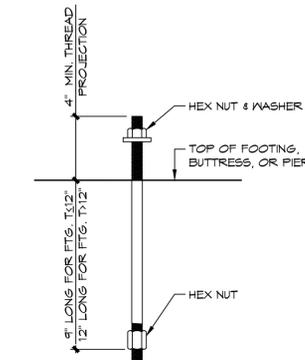
TYPICAL CONTROL JOINT LAYOUT
 DISCONTINUOUS JOINTS
 REENTRANT CORNERS



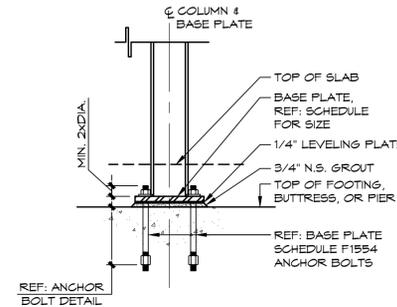
- NOTES:
 1. MAXIMUM JOINT SPACING SHALL BE 30x SLAB THICKNESS (t) U.N.O.
 2. PANELS SHALL BE SQUARE SHAPED. IF PANELS ARE UNABLE TO BE SQUARE, LENGTH OF LONG EDGE OF PANEL SHALL NOT EXCEED 1.25x LENGTH OF SHORT EDGE.
 3. CONTRACTOR MAY PROVIDE PREFORMED CONTROL JOINT SUCH AS "STRESSLOCK" OR APPROVED EQUAL.
 4. UPON CONTRACTORS REQUEST, FORMAL CONTROL JOINT LAYOUT CAN BE PROVIDED.

SLAB THICKNESS (t) (IN)	MAX SPACING (FT)
4	10
5	12
6	15
7	17
8	20

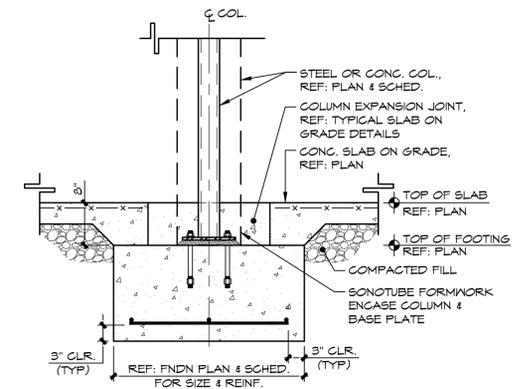
TYPICAL CONTROL JOINT DETAIL



ANCHOR BOLT DETAIL



TYPICAL W-FLANGE COLUMN BASE PLATE



INTERIOR COLUMN
 TYPICAL FOOTING DETAIL

BAR SIZE	db	LAP CLASS	TOP BARS		OTHER BARS	
			1	2	1	2
#3	.375	EMBEDMENT (A)	22	32	17	25
		SPlice (B)	28	42	22	32
#4	.50	EMBEDMENT (A)	29	43	22	33
		SPlice (B)	37	56	24	43
#5	.625	EMBEDMENT (A)	36	54	28	41
		SPlice (B)	47	70	36	54
#6	.75	EMBEDMENT (A)	43	64	33	50
		SPlice (B)	56	84	43	64
#7	.875	EMBEDMENT (A)	63	94	48	72
		SPlice (B)	81	122	63	94
#8	1.0	EMBEDMENT (A)	72	107	55	82
		SPlice (B)	93	134	72	107

- NOTES:
 1. TENSION DEVELOPMENT LENGTHS AND LAP SPlice LENGTHS ARE CALCULATED PER ACI 318-14, SECTIONS 25.4.2.2 AND 25.5.2, RESPECTIVELY. CASES 1 & 2 WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF BARS ARE DEFINED IN THE TABLE AT RIGHT.
 2. LAP SPlice LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS: CLASS A - 1.0 AND CLASS B - 1.3 (ACI 25.5.2.1). VALUES FOR BARS IN BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT MEETING MINIMUM REQUIREMENTS FOR STIRRUPS IN ACI 9.6.3 AND 9.6.4 OR MEETING THE REQUIREMENTS OF ACI 10.6.2 AND ARE BASED ON MINIMUM COVER SPECIFIED IN ACI 20.6.1.
 3. CONDITIONS WHICH REQUIRE CASE 1 SPlice LENGTHS SHOULD BE AVOIDED IF AT ALL POSSIBLE FOR THE LARGER BAR SIZES. THESE ORDINARILY LONG LENGTHS PRESENT POSSIBLE CONSTRUCTABILITY PROBLEMS DUE TO PLACING CONGESTION, ETC.
 4. TOP BARS ARE HORIZONTAL WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THE BARS.

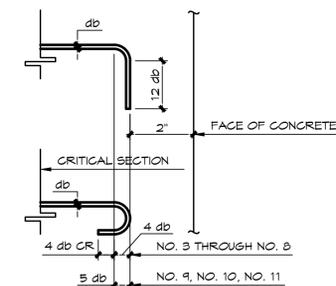
STRUCTURAL ELEMENT	CONCRETE COVER	CASE ACCORDING TO CENTER-TO-CENTER BAR SPACING		
		≤ 2db	> 2db < 3db	> 3db
BEAMS, COLUMNS, AND LAYER OF WALLS OR SLABS	≤ db > db	2 2	2 1	2 1
ALL OTHERS	≤ db > db	2 2	2 2	2 1

SLABS	1"
TIED PIERS (CLEAR DIMENSION TO TIES)	
SURFACE EXPOSED TO EARTH AND WEATHER	2"
OTHER SURFACES	1-1/2"
FOUNDATION ELEMENTS	
SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
SURFACES EXPOSED TO EARTH OR WEATHER (#5 OR SMALLER)	1-1/2"
SURFACES EXPOSED TO EARTH OR WEATHER (#6 OR LARGER)	2"
OTHER SURFACES	1"
BEAMS & COLUMNS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS	1-1/2"
OTHER	
SURFACES NOT EXPOSED TO EARTH OR WEATHER	3/4"

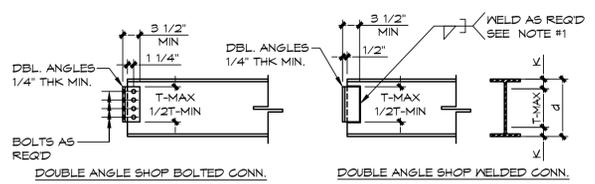
NORMAL WEIGHT CONCRETE STRENGTH	DEVELOPMENT LENGTH	LAP SPlice LENGTH
3,000 PSI	22 db	30 db ≥ 12"
4,000 PSI	19 db	30 db ≥ 12"
5,000 PSI	18 db	30 db ≥ 12"
6,000 PSI	17 db	30 db ≥ 12"

NORMAL WEIGHT CONCRETE STRENGTH	BASIC HOOK DEVELOPMENT LENGTH
3,000 PSI	22 db
4,000 PSI	19 db
5,000 PSI	17 db

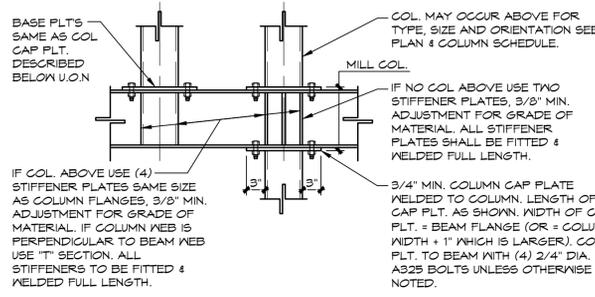
1. WHEN COVERAGE REQUIREMENTS SHOWN IN DETAILS ARE MET, BASIC HOOK DEVELOPMENT LENGTH MAY BE MULTIPLIED BY 0.7.



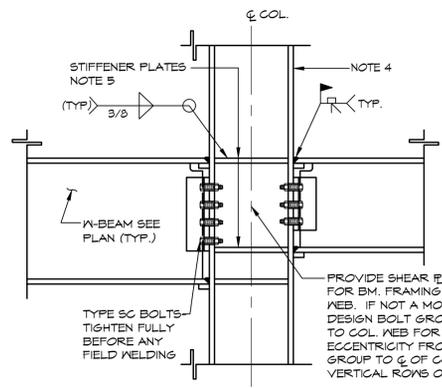
REINFORCING DEVELOPMENT LENGTH AND LAP SPlice SCHEDULE



- NOTES:**
1. ALL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AISC LRFD SPECIFICATION
 2. REACTIONS SHOWN ON PLAN ARE DUE TO FACTORED SERVICE LOADS.
 3. DETAIL SHALL SUBMIT FOR APPROVAL. STANDARD CONNECTION DETAILS CONFORMING TO THESE DETAILS WITH THE ERECTION DRAWING SUBMISSION.
 4. USE DOUBLE BENT PLATE CONNECTIONS AT SKewed FRAMING CONDITIONS.

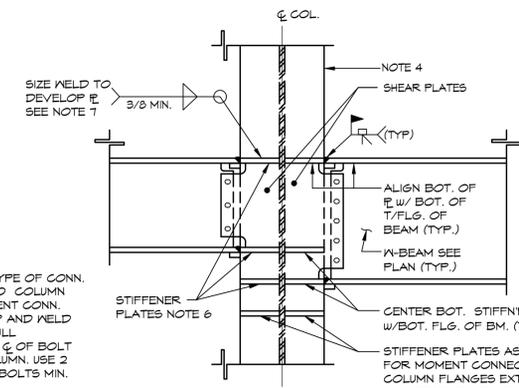


TYPICAL STEEL CONNECTION DETAILS



COLUMN FLANGE CONNECTION

- NOTES:**
1. FOR BEAMS CONNECTING TO COLUMN WEB, USE SHEAR PLATE CONNECTION DESIGNED AS SPECIFIED IN NOTE 3 OF "TYPICAL STEEL CONNECTION DETAILS."
 2. DETAILER SHALL SUBMIT FOR APPROVAL STD. CONN. DET'S CONFORMING TO DETAILS SHOWN WITH ERECTION DRAWINGS. ALL BOLTS TO BE 3/4" DIA. A325-SC HIGH STRENGTH BOLTS
 3. UNLESS NOTED OTHERWISE, ALL WELDING ELECTRODES TO BE E70XX.
 4. FOR EXTENT OF COLUMN SEE FRAMING PLANS, SECTIONS & COLUMN SCHEDULE.

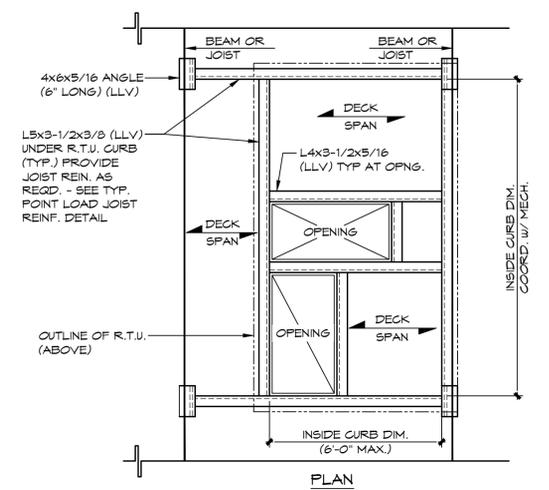


COLUMN WEB CONNECTION

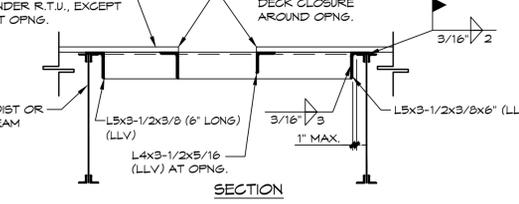
5. PROVIDE 5/8" THICK STIFFENERS ON BOTH SIDES OF COLUMN WEB WHERE INDICATED ON PLAN OR ON COLUMN SCHEDULE. WIDTH OF STIFFENERS = (COLUMN FLANGE - COLUMN WEB) / 2 - 1/8".
6. PROVIDE STIFFENER PLATES ON BOTH SIDES OF COLUMN WEB EVEN WHEN MOMENT CONNECTION IS ONLY REQ'D. ON ONE SIDE. THICKNESS OF STIFFENER TO EQUAL THICKNESS OF BEAM FLANGE + 3/8" (F_y = 50 ksi).
7. TERMINATE WELD A DIST. EQUAL TO THE WELD SIZE AT EDGE OF STIFFENER PLATE AND COLUMN FLANGE (TYP.)

TYPICAL FIELD-WELDED BEAM-TO-COLUMN MOMENT CONNECTION

NOTE: FOR LOCATION OF MOMENT CONNECTIONS, SEE BEAM ENDS INDICATED THIS WAY ON PLANS. ALL OTHER CONNECTIONS RECEIVE STANDARD SHEAR CONNECTIONS.

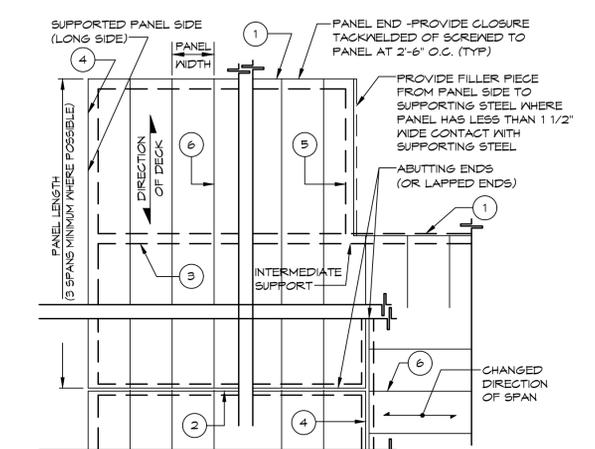


ROOF TOP UNIT / LARGE EQUIPMENT SUPPORT



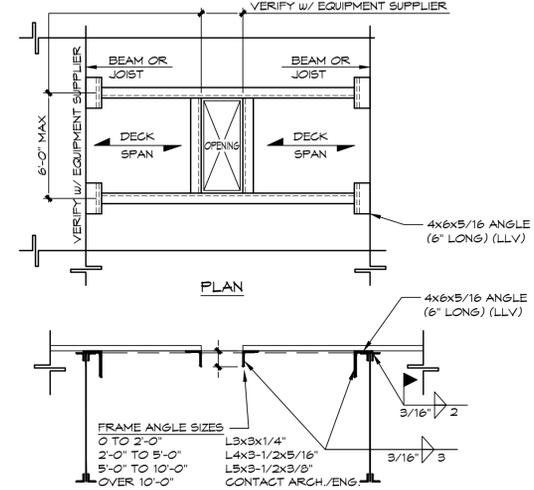
ROOF EQUIPMENT SUPPORT DETAIL

- NOTES:**
1. COORDINATE SIZE & LOCATION OF CURBS & OPENINGS W/ MECH. CONTRACTOR.
 2. ALIGN HEADER W/ TOP CHORD PANEL POINTS, OR PROVIDE JOIST REINF. - SEE TYP. POINT LOAD JOIST REINF. DETAIL



- NOTES:**
1. PANEL END - 3/4" DIA. PUDDLE WELD AT 12" O.C.
 2. BUTTING ENDS - 3/4" DIA. PUDDLE WELDS AT 12" O.C. EACH PANEL.
 3. LAPPED ENDS - 3/4" DIA. PUDDLE WELDS AT 12" O.C. AT CENTER OF LAPPED ENDS.
 4. PANEL INTERMEDIATE SUPPORT - REFERENCE TYPICAL GAUGE METAL FLOOR DECK ATTACHMENT SCHEDULE
 5. PANEL SIDE - REFERENCE TYPICAL GAUGE METAL FLOOR DECK ATTACHMENT SCHEDULE
 6. PANEL SIDE WITH FILLER PIECE - REFERENCE TYPICAL GAUGE METAL FLOOR DECK ATTACHMENT SCHEDULE
 7. PANEL SIDE LAP - REFERENCE TYPICAL GAUGE METAL FLOOR DECK ATTACHMENT SCHEDULE
 8. DASHED LINES INDICATE PERMANENT STEEL SUPPORTING MEMBERS

TYPICAL METAL FLOOR DECK ERECTION DETAIL

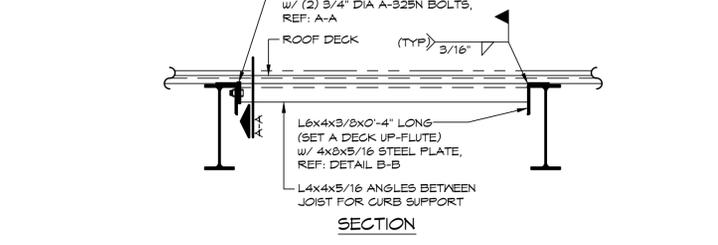


EXHAUST FAN / SMALL EQUIPMENT SUPPORT

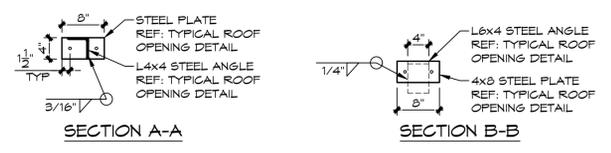
- NOTES:**
1. COORDINATE SIZE & LOCATION OF CURBS & OPENINGS W/ MECH. CONTRACTOR.
 2. ALIGN HEADER W/ TOP CHORD PANEL POINTS, OR PROVIDE JOIST REINF. - SEE TYP. POINT LOAD JOIST REINF. DETAIL

ROOF EQUIPMENT SUPPORT DETAIL

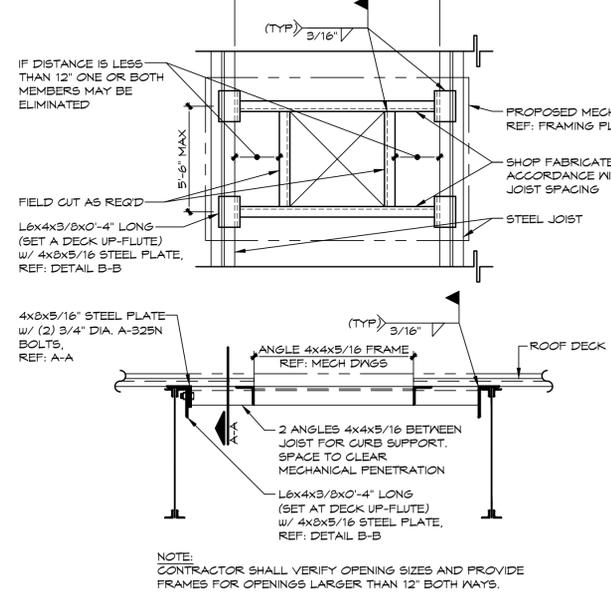
TYPICAL GAUGE METAL FLOOR DECK ATTACHMENT SCHEDULE



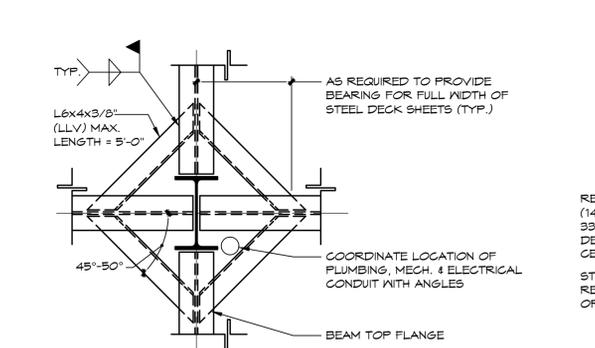
TYPICAL ROOF REINF. DETAIL AT MECH. UNIT (WITHOUT DUCT PENETRATION)



TYPICAL ROOF PENETRATION DETAIL



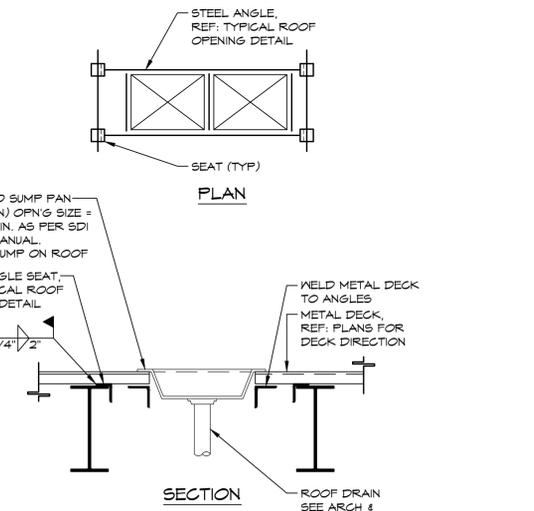
TYPICAL FRAMING DETAILS



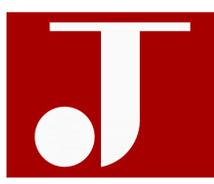
TYPICAL DECK SUPPORT LOCATIONS

- NOTES:**
1. PROVIDE METAL DECK SUPPORT:
 - AT BEAM TO BEAM CONNECTION.
 - WHERE PIPE SLEEVE OCCURS NEXT TO COLUMN.
 - WHERE COLUMN BASE OCCURS ON TOP OF STEEL BEAM.
 - AT ALL OTHER CONDITIONS WHERE DECK SUPPORT IS INTERRUPTED FOR A DISTANCE GREATER THAN 6'.

TYPICAL METAL DECK SUPPORT AT COLUMN



TYPICAL SUMP PAN DETAIL



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DRAWING TITLE: **TYPICAL FRAMING DETAILS**

DRAFTED BY: NAR
REVIEWED BY: JCT
PROJECT NUMBER: 2200.17
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