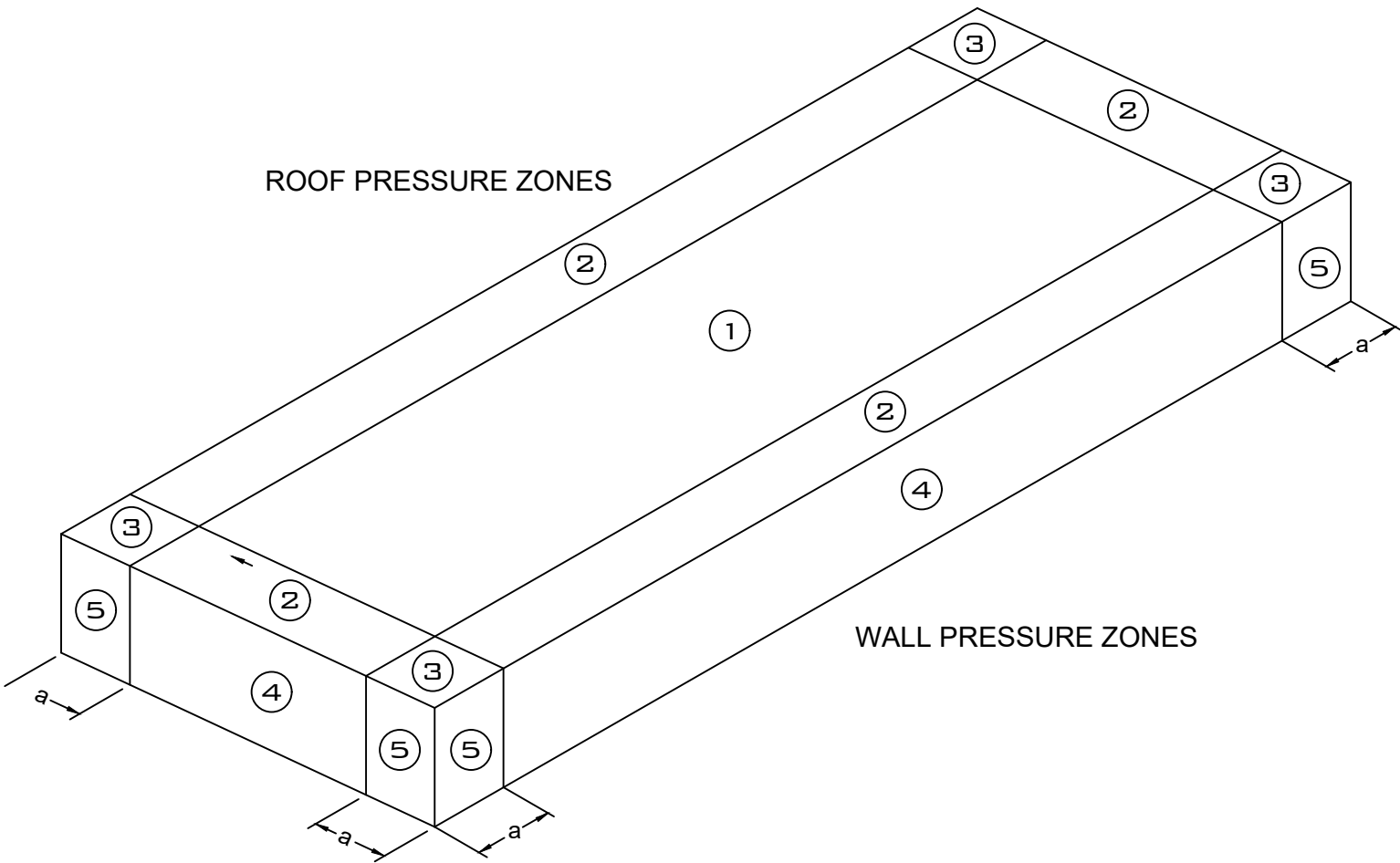




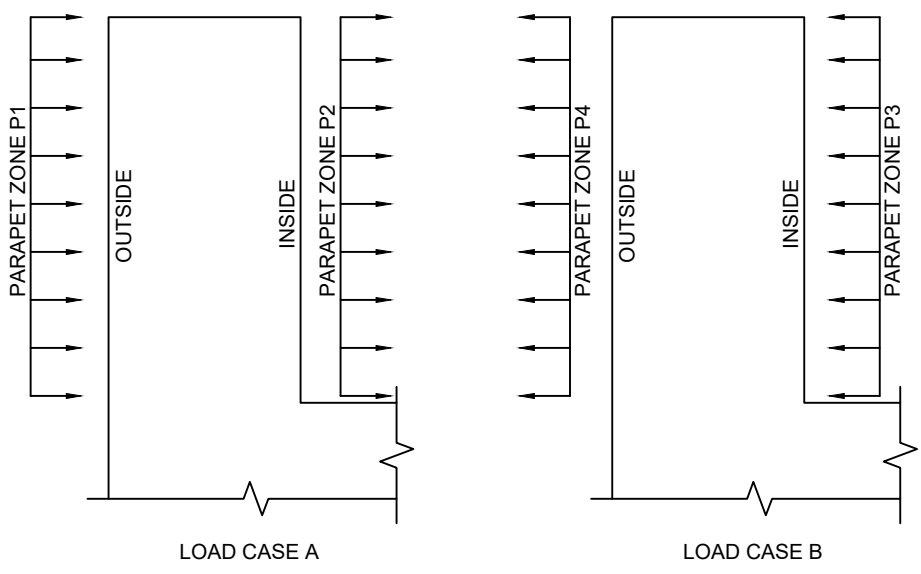
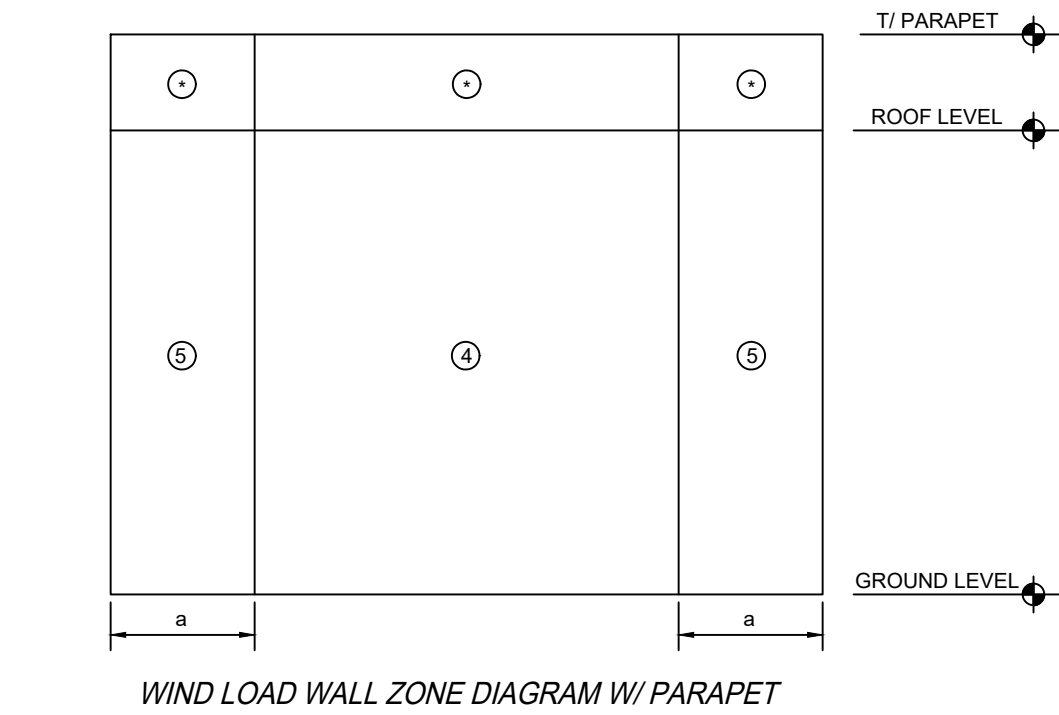
COMPONENTS AND CLADDING DESIGN WIND PRESSURES

WIND PRESSURE (PSF) @ 160MPH, EXP C									
ROOF ZONES, Ultimate Pressures					ROOF ZONES, Nominal Pressures (V=124mph)				
ZONE	AREA	POS	NEG	w/ OH	ZONE	AREA	POS	NEG	w/ OH
1	10	26.2	-102.7	-	1	10	16.0	-61.6	-
1	20	24.6	-95.9	-	1	20	16.0	-57.5	-
1	50	22.4	-87.0	-	1	50	16.0	-52.2	-
1	100	59.0	-80.2	-	1	100	16.0	-48.1	-
2	10	59.0	-135.5	-	2	10	35.4	-81.3	-
2	20	56.4	-126.7	-	2	20	33.8	-76.0	-
2	50	52.9	-115.2	-	2	50	31.8	-69.1	-
2	100	50.3	-106.5	-	2	100	30.2	-63.9	-
3	10	59.0	-135.5	-	3	10	35.4	-81.3	-
3	20	56.4	-126.7	-	3	20	33.8	-76.0	-
3	50	52.9	-115.2	-	3	50	31.8	-69.1	-
3	100	50.3	-106.5	-	3	100	30.2	-63.9	-
WALL ZONES, Ultimate Pressures					WALL ZONES, Nominal Pressures (V=124mph)				
4	10	59.0	-63.9	-	4	10	35.4	-38.3	-
4	20	56.4	-61.3	-	4	20	33.8	-36.8	-
4	50	52.9	-57.8	-	4	50	31.8	-34.7	-
4	100	50.3	-55.2	-	4	100	30.2	-33.1	-
5	10	59.0	-78.7	-	5	10	35.4	-47.2	-
5	20	56.4	-73.4	-	5	20	33.8	-44.1	-
5	50	52.9	-66.5	-	5	50	31.8	-39.9	-
5	100	50.3	-61.3	-	5	100	30.2	-36.8	-

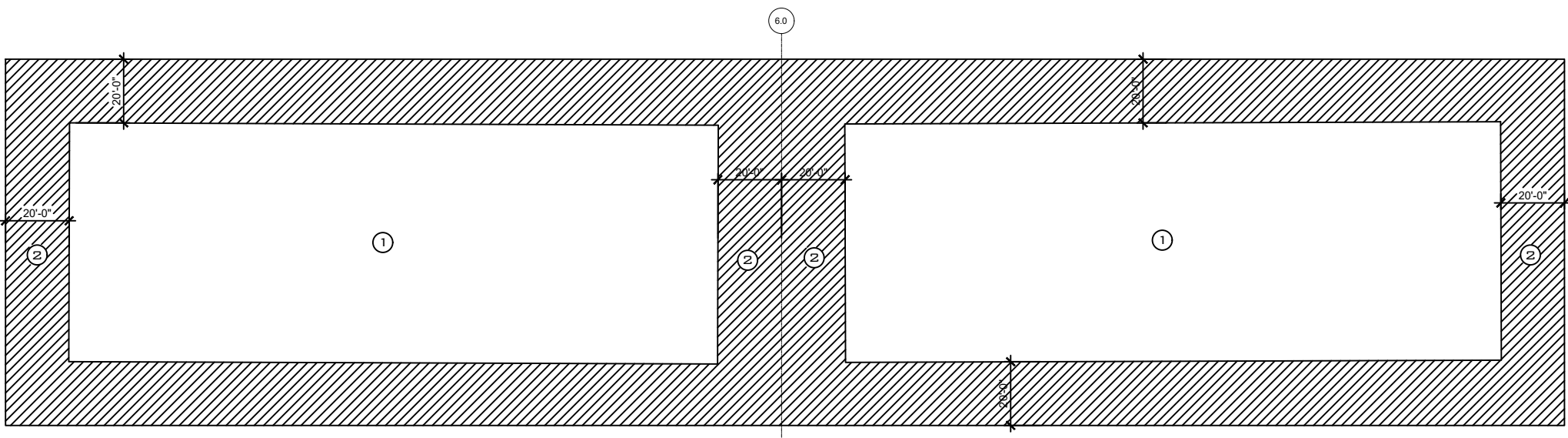
ZONE 1 - INTERIOR AREAS OF ROOF (INCLUDES ZONE 1')  
ZONE 2 - EDGE ZONE  
ZONE 3 - CORNER ZONE  
ZONE 4 - INTERIOR AREAS OF WALL  
ZONE 5 - EDGE ZONES OF WALL  
DISTANCE "a" IS DEFINED AS 11.5 FT FROM DIAPHRAGM BOUNDARY FOR ROOFS AND 11.5 FT FROM ANY CORNER OF THE BUILDING FOR WALLS



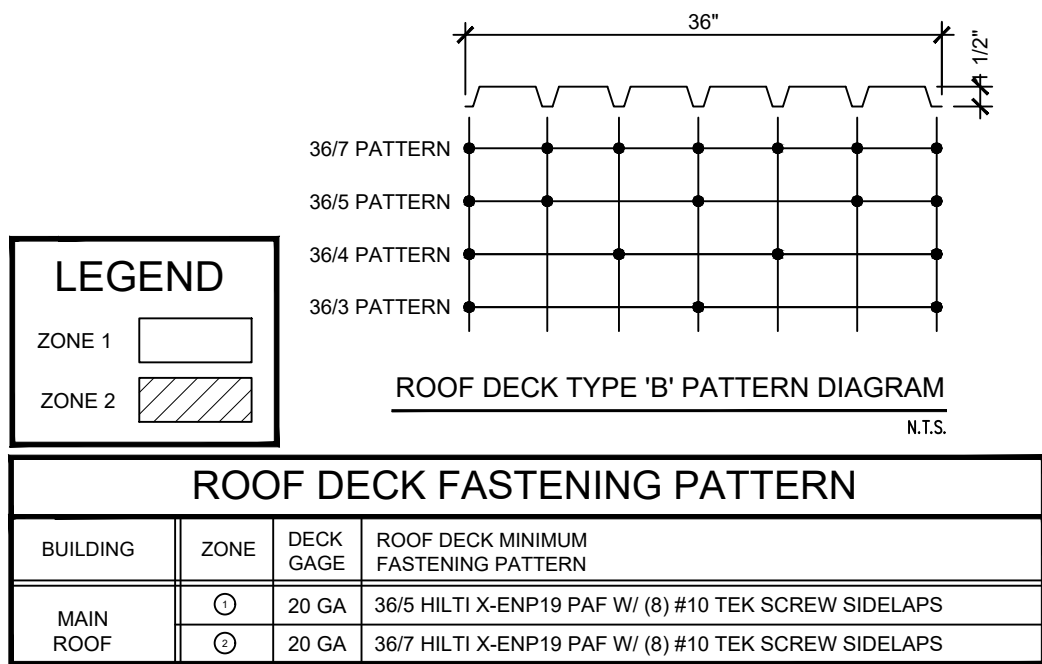
PARAPET PRESSURES (PSF) @ 160MPH, EXP C							
PARAPET ZONES, Ultimate Pressures				PARAPET ZONES, Nominal Pressures (V=124mph)			
ZONE	AREA	A	B	ZONE	AREA	A	B
4	10	178.2	-138.1	4	10	106.9	-82.9
4	20	166.7	-129.2	4	20	100.0	-77.5
4	50	151.4	-117.5	4	50	90.8	-70.5
4	100	139.9	-108.6	4	100	83.9	-65.2
5	10	178.2	-138.1	5	10	106.9	-82.9
5	20	166.7	-129.2	5	20	100.0	-77.5
5	50	151.4	-117.5	5	50	90.8	-70.5
5	100	139.9	-108.6	5	100	83.9	-65.2



PARAPET WIND PRESSURE DIAGRAM



MAIN BUILDING ROOF ZONES



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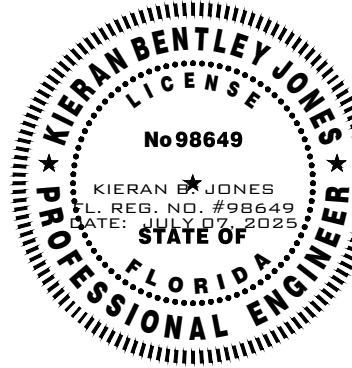
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item	description	date

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DECK  
FASTENING &  
COMPONENTS  
AND CLADDING  
SCHEDULE

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Registered Engineer License: PE 98649

sheet number

S1.1

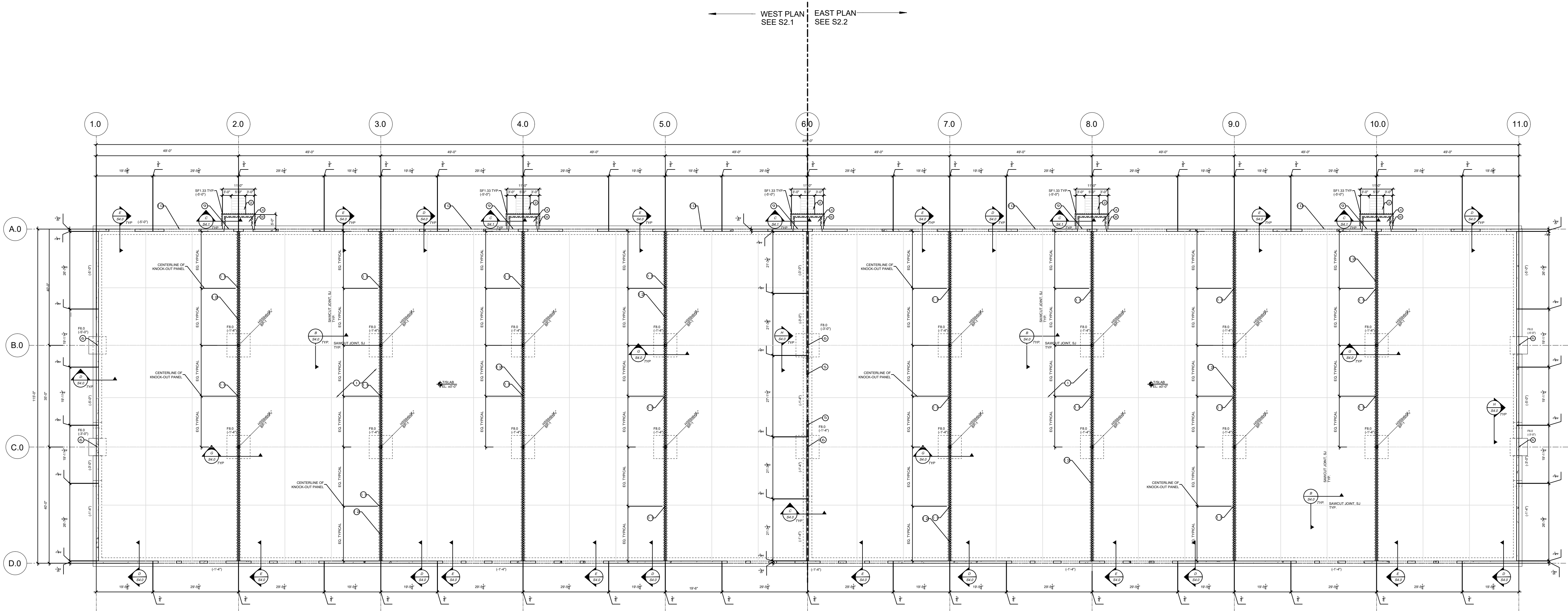
drawn by: KBJ checked by: KBJ

NOTES:

- 1 6" THICK 4000 PSI (MIN) CONCRETE SLAB ON GRADE W/ 4x4 W3.5xW3.5 W.W.M. @ MID DEPTH OR FIBERMESH ON CLEAN COMPACTED FILL TREATED AGAINST TERMITES OVER 10MIL U.V. RESISTANT VAPOR BARRIER
- 2 CONCRETE STAIRS, SEE DETAIL B/S4.1 AND ARCHITECTURAL DRAWINGS
- 3 9 1/2" CONCRETE TILT PANEL, SEE PLAN AND DETAILS ON SHEET S5.0, ALL PANELS ARE P-1 TYP. U.N.O.
- 4 4" THICK 3000 PSI (MIN) CONCRETE SLAB ON GRADE W/B6 W1.4xW1.4 W.W.M. OR FIBERMESH ON CLEAN COMPACTED FILL AND TREATED AGAINST TERMITES OVER U.V. RESISTANT VAPOR BARRIER. PROVIDE SAWCUT JOINTS @ 5'-0" O.C.
- 5 PROVIDE FULL HEIGHT 9 1/4"x36"W CONCRETE COLUMN WITH (12) #6 VERTICAL AND #3 STIRRUPS @ 8" O.C. EACH SIDE OF 20" TALL OVERHEAD DOOR OPENING
- 6 9 1/4"x48" CONCRETE COLUMN IN TILT WALL PANEL. REINFORCE W/ (12) #6 BARS VERT. AND #3 TIES @ 8" O.C.
- 7 ALL WALL FOUNDATIONS ARE SF3.0 TYP. U.N.O.
- 8 COORDINATE ALL ELEVATIONS AND DIMENSIONS FOR EXTERIOR ELEVATED WALKWAYS AND RAMPS WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR ON GRADE SIDEWALKS
- 9 COORDINATE ALL RECESS REQUIREMENTS, IF ANY, WITH ARCHITECTURAL DRAWINGS AND DOOR MANUF.
- 10 OPTIONAL DOCK LEVELER DETAIL A/S4.1 AT OVERHEAD DOOR IF APPLICABLE COORDINATE WITH ARCHITECTURAL DRAWINGS AND DOOR MANUFACTURER.
- 11 PROVIDE KNOCK-OUT PANELS IN WALL 8'-0" W X 10'-0" H. PROVIDE PRECAST MASONRY LINTEL AT TOP OF OPENING. LTL16 SEE DETAILS E&F/S6.1, COORDINATE FINAL SIZE AND LOCATION WITH OWNER AND ARCHITECT
- 12 HATCH INDICATES INTERIOR NON BEARING 8" MASONRY PARTITION WALL REINFORCED WITH #5 @ 48" O.C. VERTICAL IN GROUT FILLED CELLS. TMASONRY WALL AT 14'-0". PROVIDE INTERIOR LIGHT GAUGE FRAMING ABOVE, SEE ARCHITECTURAL DRAWINGS. SEE DETAILS E&F/S6.1

ELEVATION NOTES:

T/SLAB EL: 0'-0" TYP. U.N.O.  
T/FOOTING EL: (-X'-X") NOTED ON PLAN



OVERALL FOUNDATION PLAN

SCALE: 1/20"=1'-0"



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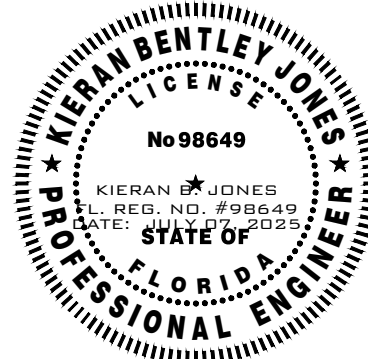
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## OVERALL FOUNDATION PLAN

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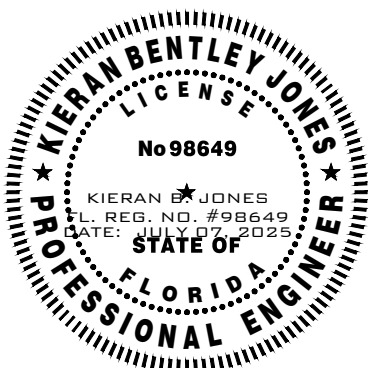
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ENLARGED  
FOUNDATION  
PLAN - WEST

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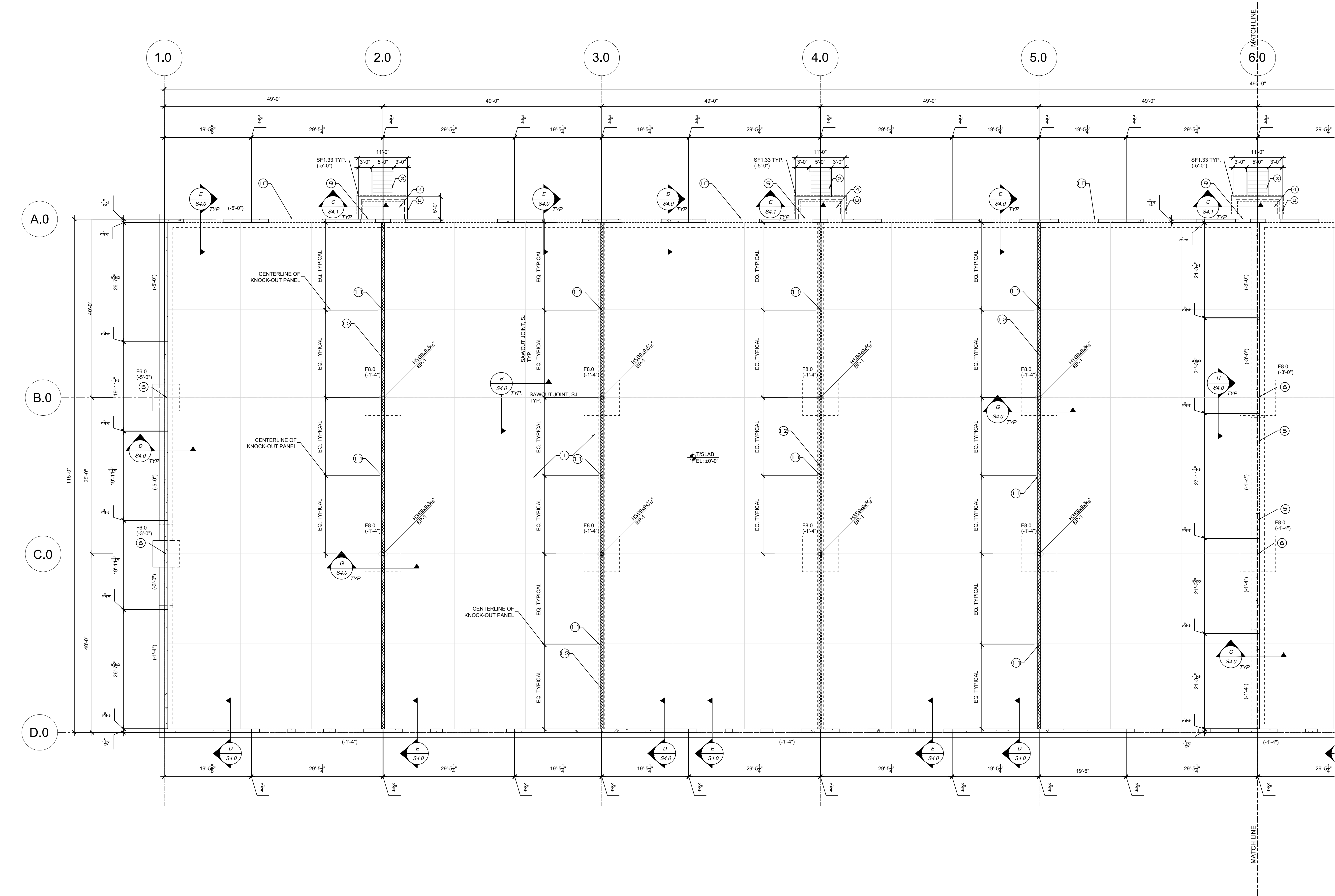
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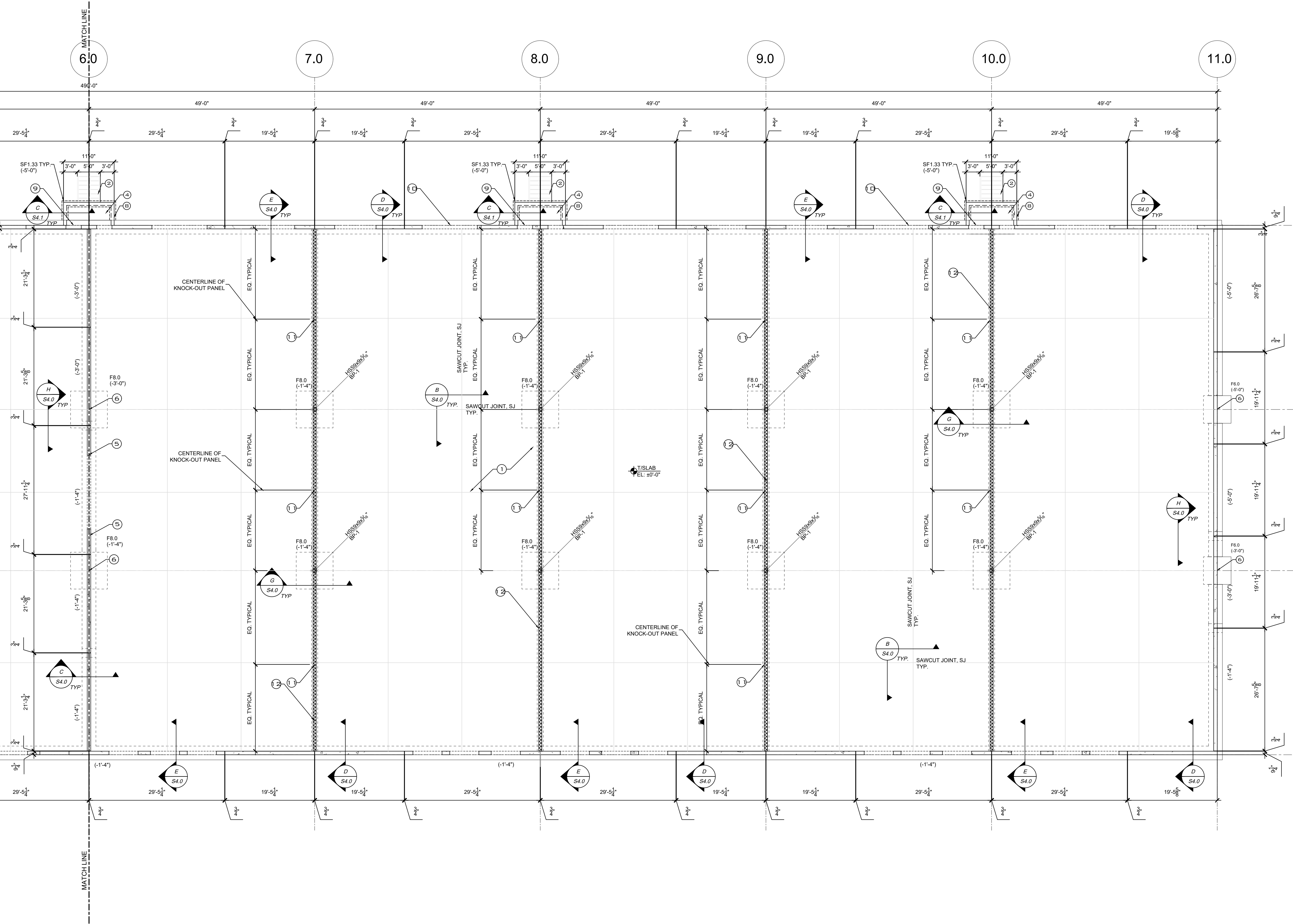
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ENLARGED ROOF FRAMING PLAN - WEST  
SEE S3.0 FOR KEYNOTES AND ELEVATION

SCALE: 3/32"=1'-0"



ENLARGED FOUNDATION PLAN - EAST  
SEE S2.0 FOR KEYNOTES AND ELEVATION

SCALE: 3/32"=1'-0"



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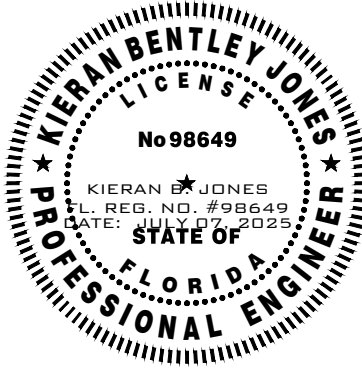
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item	description	date

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## ENLARGED FOUNDATION PLAN - EAST

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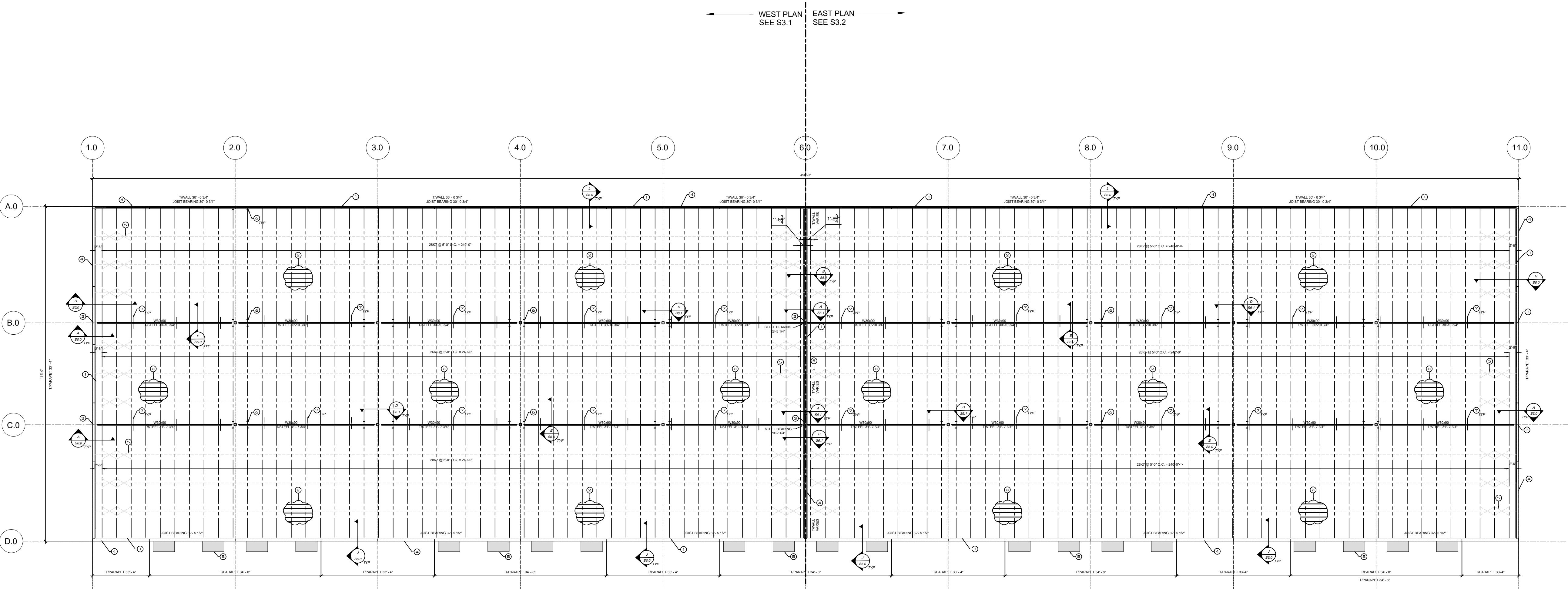
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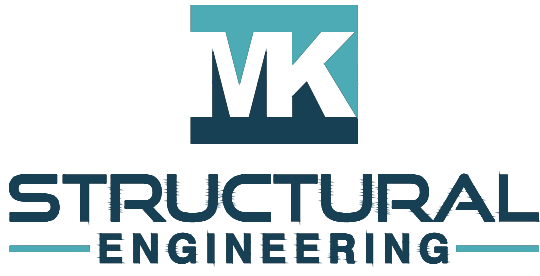
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- NOTES:
- 1 L5x3x1/4" LLV DECK SUPPORT ANGLE - SEE DETAIL D&H/S6.0 FOR REQUIREMENTS
  - 2 1 1/2", 20GA., GALVANIZED ROOF DECK, VULCRAFT TYPE "B" OR APPROVED EQUAL. SEE SHEET S1.1 FOR FASTENING PATTERN.
  - 3 9 1/4"x48" CONCRETE COLUMN IN TILT WALL PANEL, REINFORCE W/ (12) #6 BARS VERT. AND #3 TIES @ 8" O.C.
  - 4 CONCRETE TILT PANEL. SEE DETAILS ON SHEET S5.0
  - 5 L 1-3/4"x1-3/4"x1/4" HORIZONTAL BRIDGING, EQUALLY SPACED. IN ADDITION A MINIMUM OF A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOIST DUE TO WIND UPLIFT, TYPICAL.
  - 6 JOIST SHALL BE FIELD BOLTED ON EACH SIDE OF EVERY COLUMN. SEE DETAILS F&K/S6.0
  - 7 BOTTOM FLANGE BRACING @ 15'-0" O.C. MAX, SEE DETAIL E&F/S6.0
  - 8 PRE-ENGINEERED METAL AWNINGS, DESIGN AND ATTACHMENT BY OTHERS. GC TO SUBMIT SIGNED AND SEALED DRAWINGS BY SPECIALITY ENGINEER FOR REVIEW AND APPROVAL



OVERALL ROOF FRAMING PLAN

SCALE: 1/20"=1'-0"



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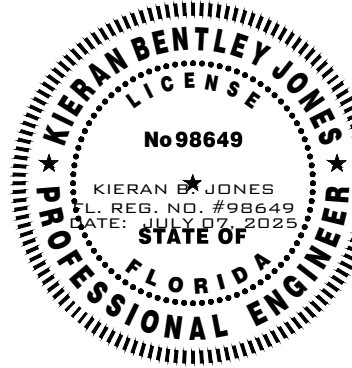
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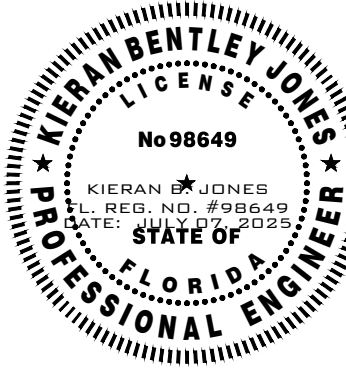
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PLAN - WEST

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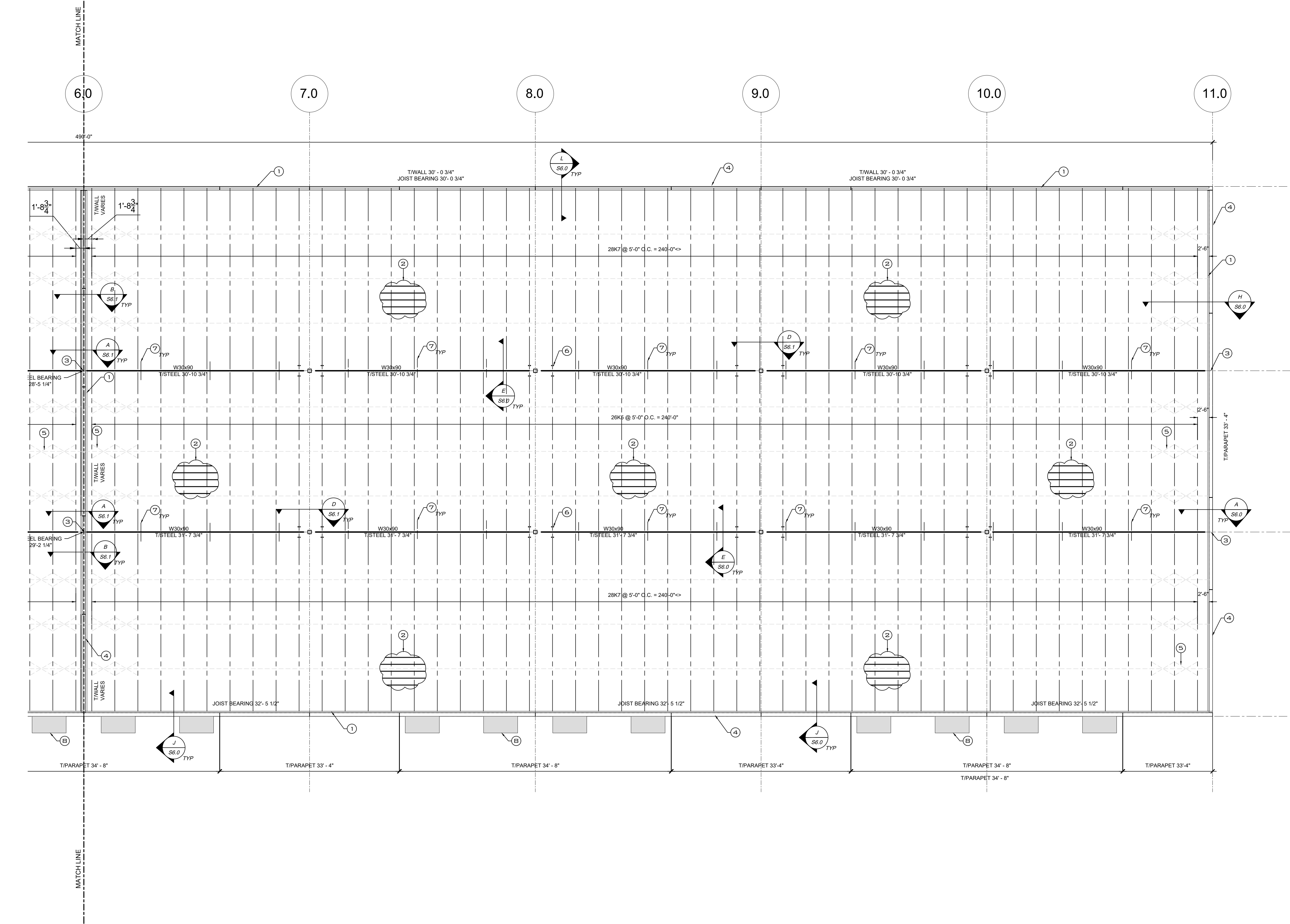
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ENLARGED ROOF FRAMING PLAN - WEST

SEE S3.0 FOR KEYNOTES AND ELEVATION

SCALE: 3/32"=1'-0"



ENLARGED ROOF FRAMING PLAN - EAST  
SEE S3.0 FOR KEYNOTES AND ELEVATION

SCALE: 3/32"=1'-0"



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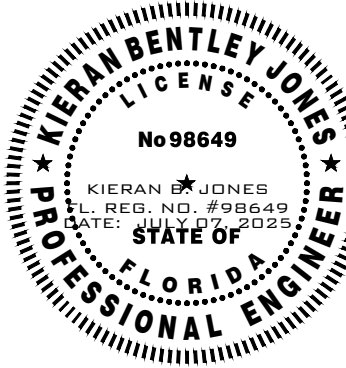
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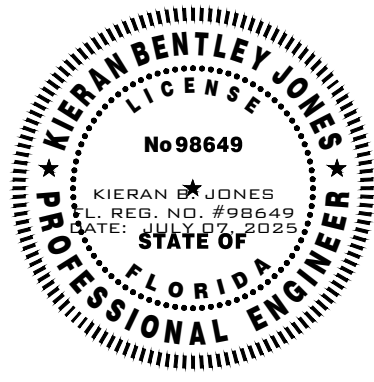
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## FOUNDATION SECTIONS AND DETAILS

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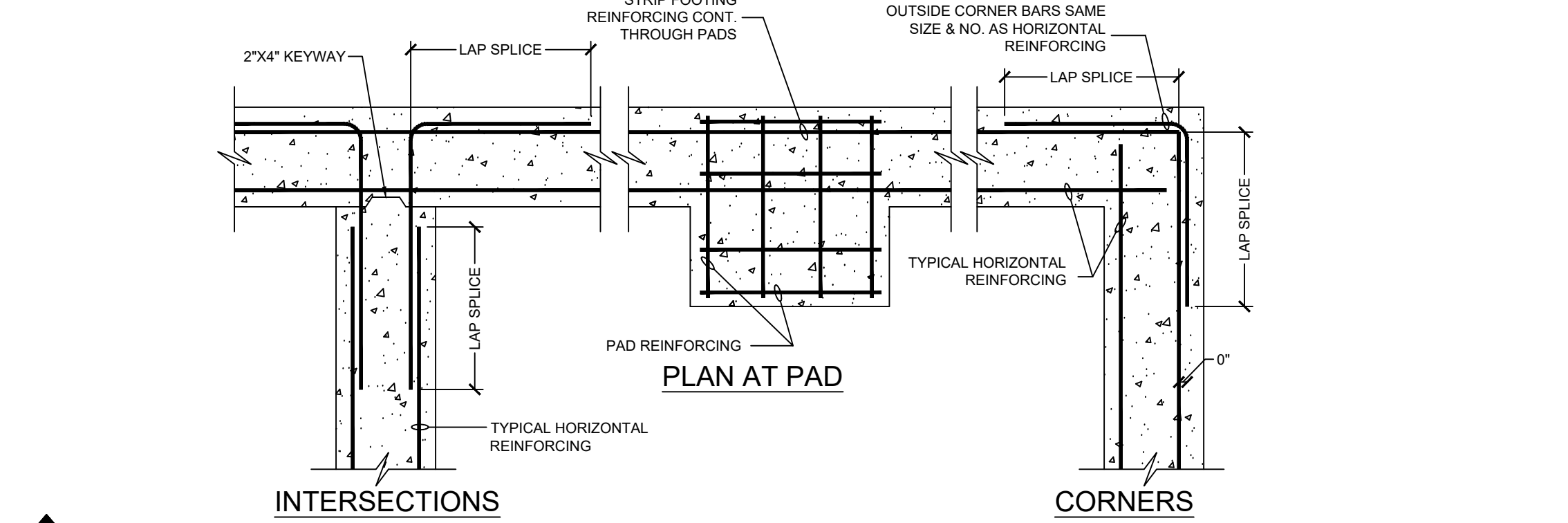
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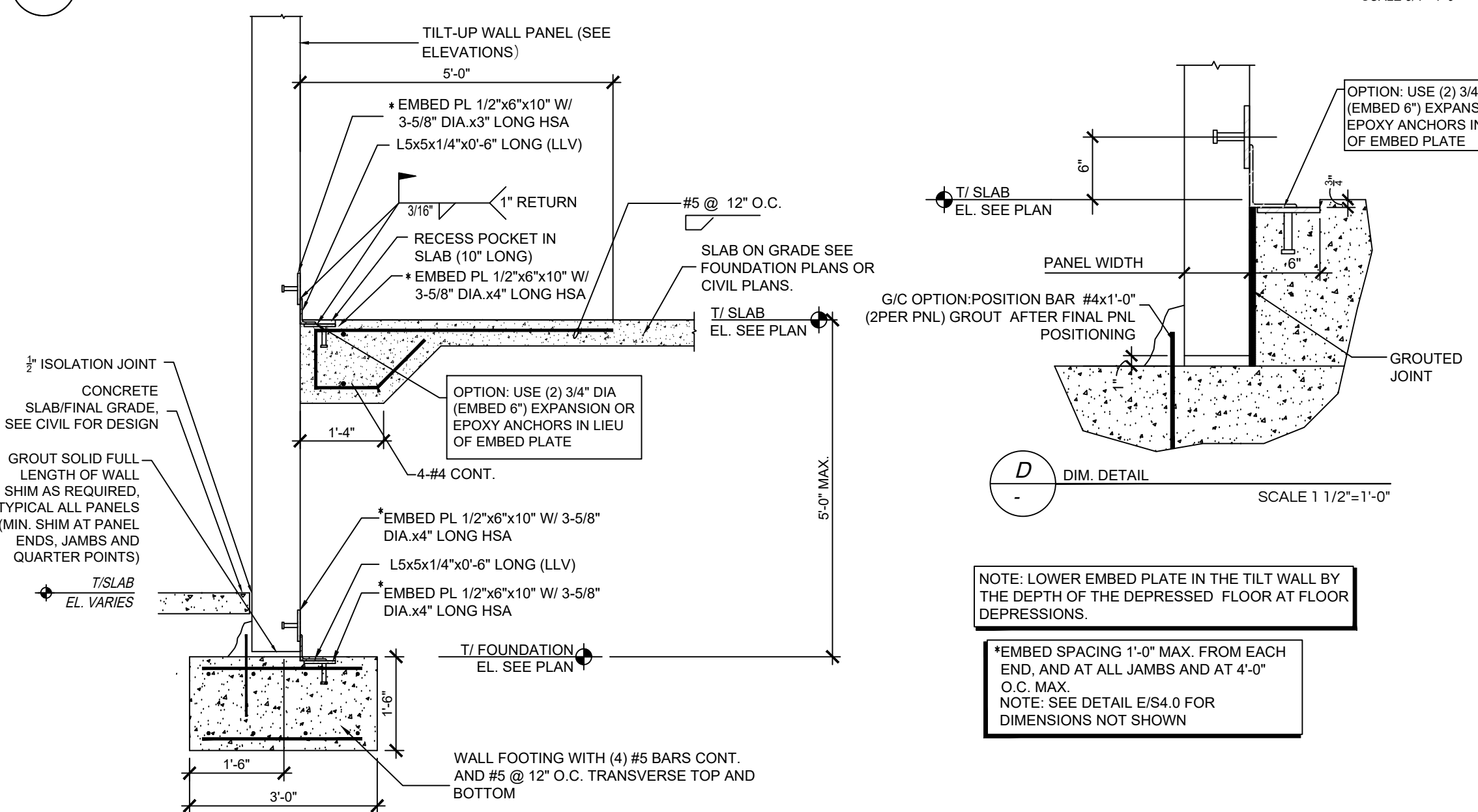
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LAP SPLICE LENGTHS										
fc'	BAR NO.									
	3	4	5	6	7	8	9	10		
COMPRESSION LAP SPLICE										
> 3000	12	15	19	23	27	30	34	39		
CLASS A TENSION LAP SPLICE										
3000	13	17	21	25	36	42	47	53		
4000	11	15	18	22	32	36	41	46		
5000	10	13	16	20	28	32	36	41		
CLASS B TENSION LAP SPLICE										
3000	16	22	27	33	47	54	61	68		
4000	14	19	23	28	41	47	53	59		
5000	13	17	21	25	37	42	47	53		



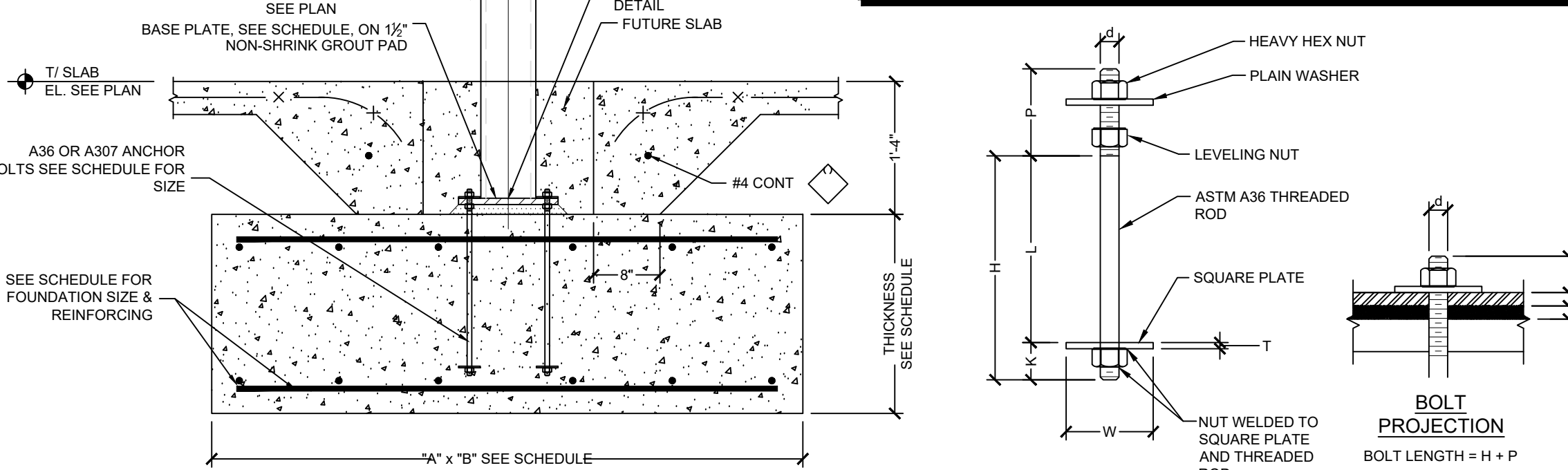
**A** TYP. HORIZONTAL REINF-CONCRETE BEAMS AND FOOTINGS  
SCALE 3/4"=1'-0"



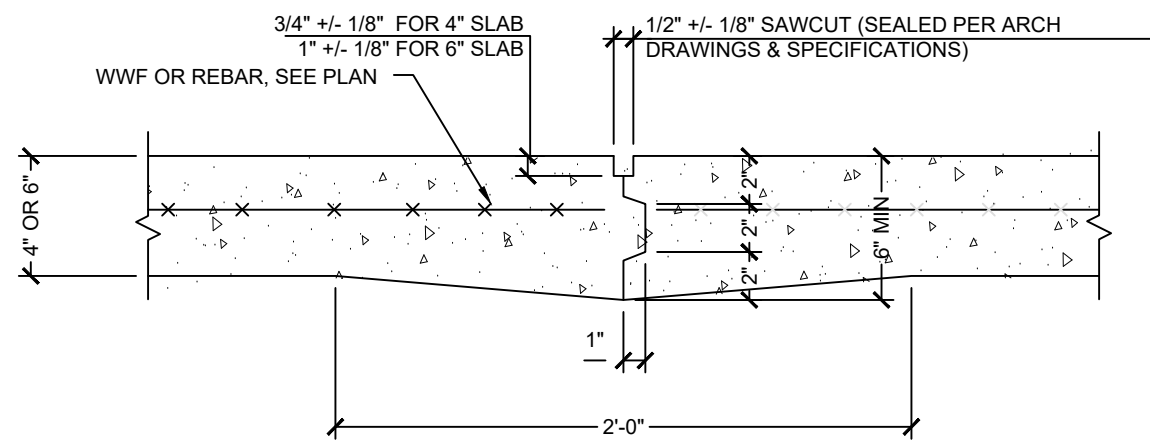
**D** TILT-UP TO (SFX.XX) AND CONNECTION DETAIL  
SCALE 1/2"=1'-0"

FOUNDATION SCHEDULE				
FOUNDATION DESIGNATION	DIMENSION "A"	DIMENSION "B"	FOUNDATION THICKNESS	REBAR (BOTTOM)
F6.0	6'-0"	6'-0"	20"	(8) #6 EA. WAY
F8.0	8'-0"	8'-0"	24"	(12) #6 EA. WAY (TOP&BOT.)

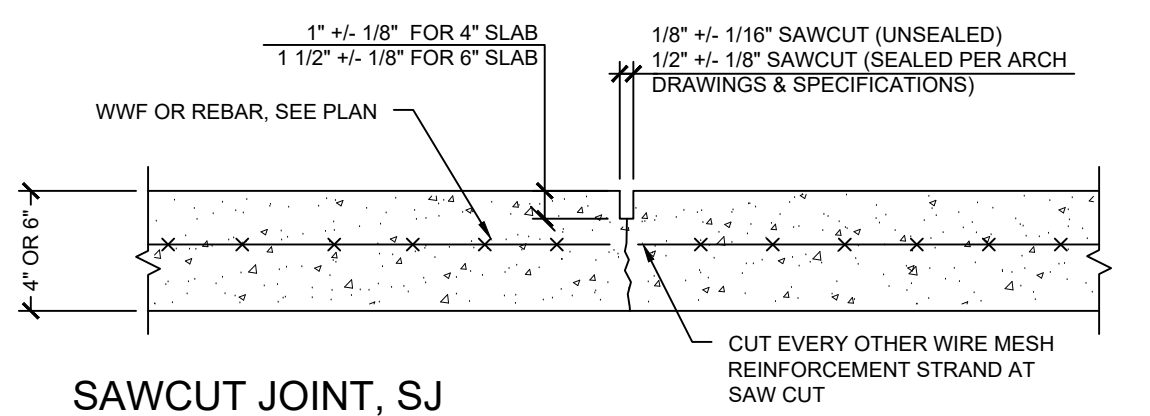
LETTERED DIMENSIONS		BOLT DIAMETER							
SQUARE PLATE	W	3	3 1/2	3 1/2	4	4 1/2	5 1/2	6	7
	T	3/8	1/2	1/2	5/8	3/4	3/4	1	1
HOLE DIA.	5/8	5/8	3/4	7/8	1	1 1/8	1 3/8	1 5/8	1 5/8
	L	5 1/2	7 1/2	7 1/2	7 1/2	11	11	16	16
H	7	9	9 1/2	9 1/2	13	13 1/2	19	19 1/2	19 1/2
K	1 1/2	1 1/2	2	2	2	2 1/2	3	3 1/2	3 1/2
P (MIN)	3	4	4	4	4	4	4	4	4
PLAIN WASHER		LIGHT						MEDIUM	



**G** TYPICAL STEEL HSS COLUMN FOUNDATION (FX.X)  
SCALE 3/4"=1'-0"

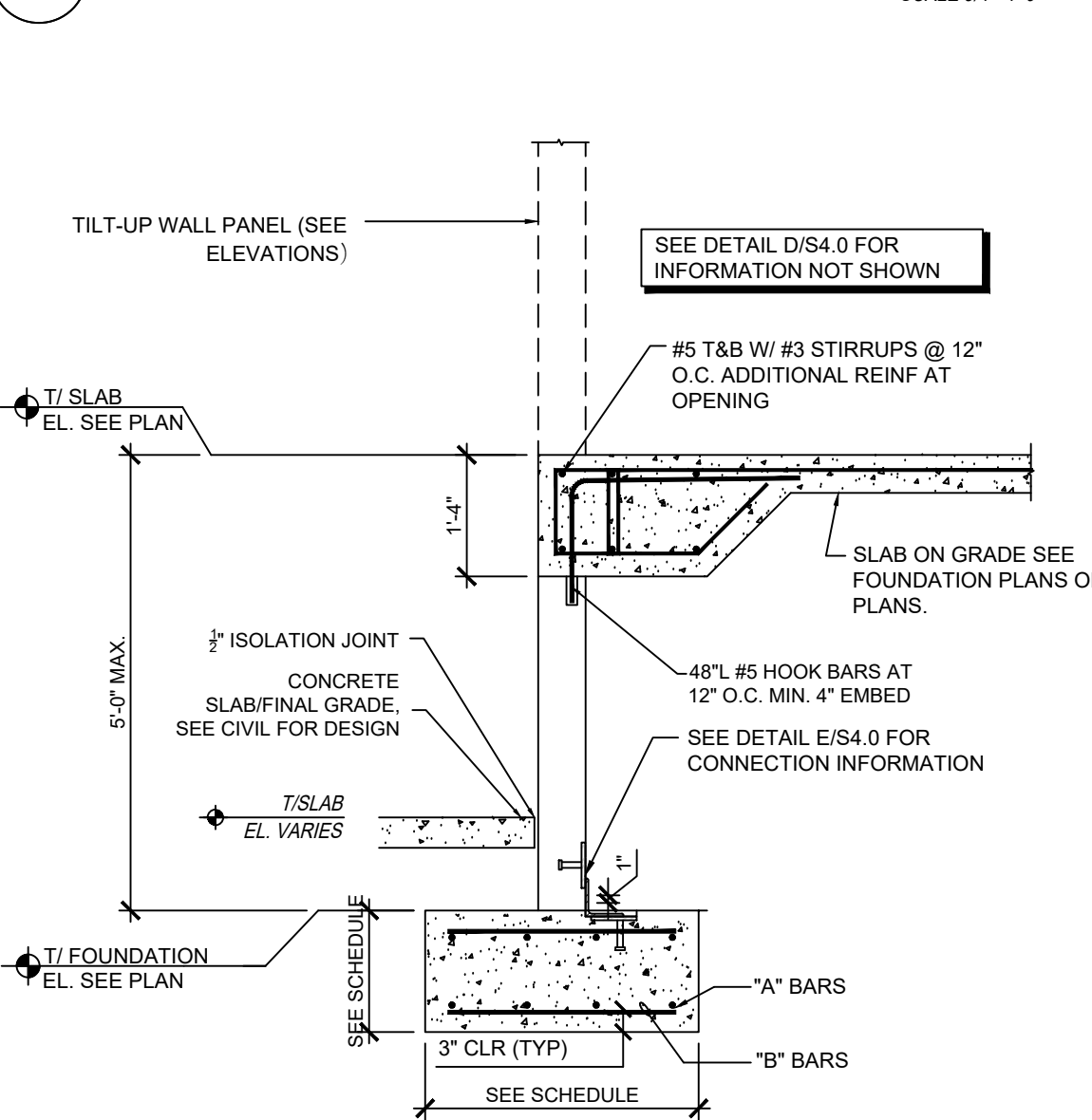


**CJ** CONSTRUCTION JOINT, CJ  
(LABELED AS CJ ON PLAN). SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO CONCRETE PLACEMENT.



**SJ** SAWCUT JOINT, SJ  
(LABELED SJ ON PLAN) CONTROL JOINTS TO BE LOCATED AS SHOWN ON PLANS AND AT 20'-0" MAX. AND SHALL BE SAW CUT NO LATER THAN 8 HOURS AFTER CONCRETE PLACEMENT.

**B** TYPICAL CONTROL JOINTS  
SCALE 3/4"=1'-0"

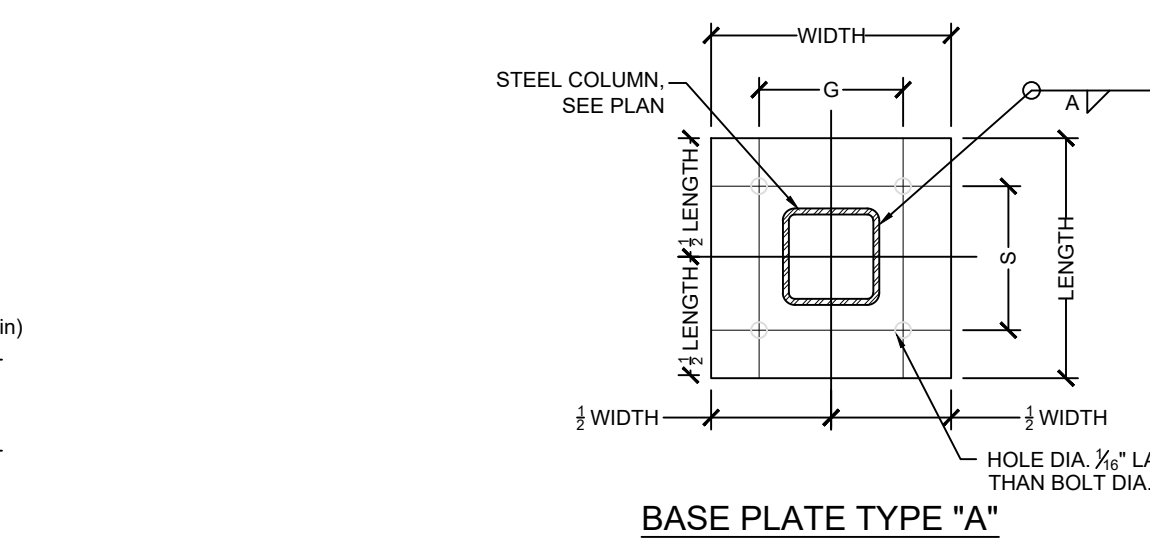


**E** TYP. SF FOUNDATION AT OPENING  
SCALE 1/2"=1'-0"

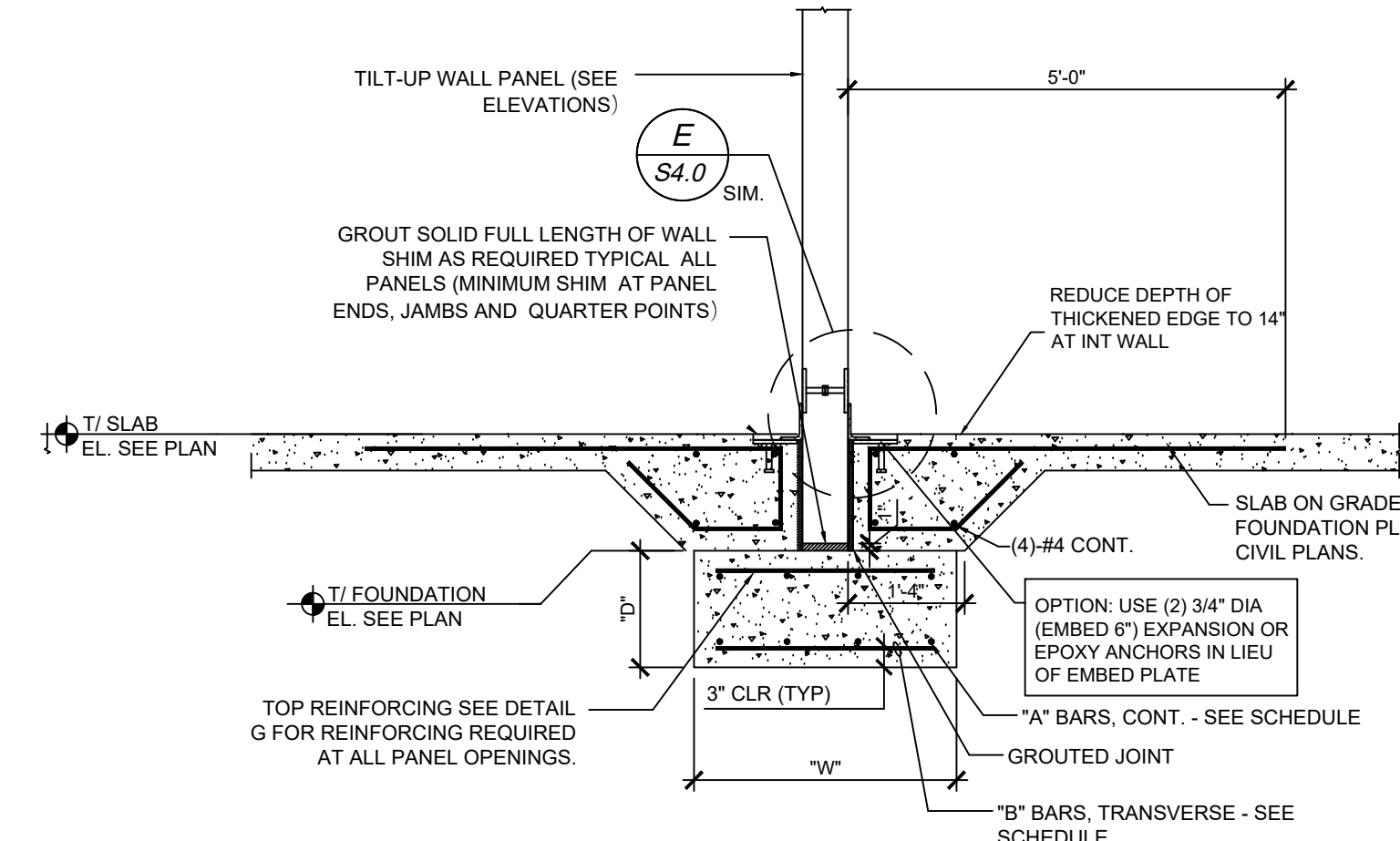
**E** TYP. SF FOUNDATION AT OPENING  
SCALE 1/2"=1'-0"

BASE PLATE SCHEDULE										
BASE PLATE DESIGNATION	BASE PLATE TYPE	BASE PLATE DIMENSIONS	COLUMN ATTACHMENT	ANCHOR RODS	COLUMN OFFSET					REMARKS
BP-1	"A"	18" x 18"	1"	3/8"	7/8"	14"	14"	14"	14"	NOTE 1

NOTES:  
1. PROVIDE 12" OF EMBEDMENT ON ANCHOR RODS FOR BP-1

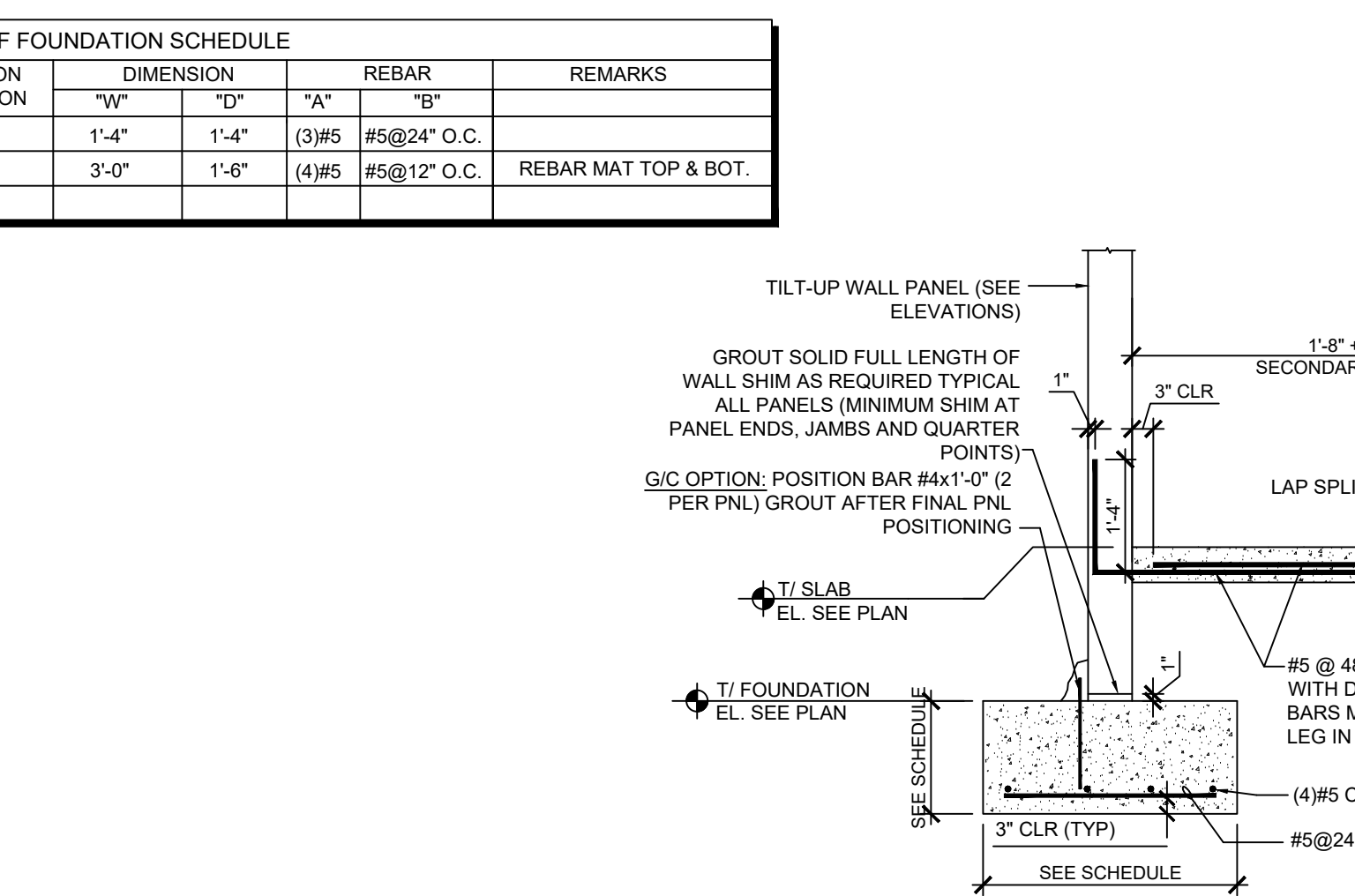


**A** BASE PLATE TYPE "A"  
SCALE 3/4"=1'-0"



**C** INTERNAL LOAD BEARING WALL FOUNDATION  
SCALE 1/2"=1'-0"

SF FOUNDATION SCHEDULE					
FOUNDATION DESIGNATION	"W"	"D"	"A"	"B"	REMARKS
SF1.33	1'-4"	1'-4"	(3)#5	#5@24" O.C.	
SF3.0	3'-0"	1'-6"	(4)#5	#5@12" O.C.	REBAR MAT TOP & BOT.



**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

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**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

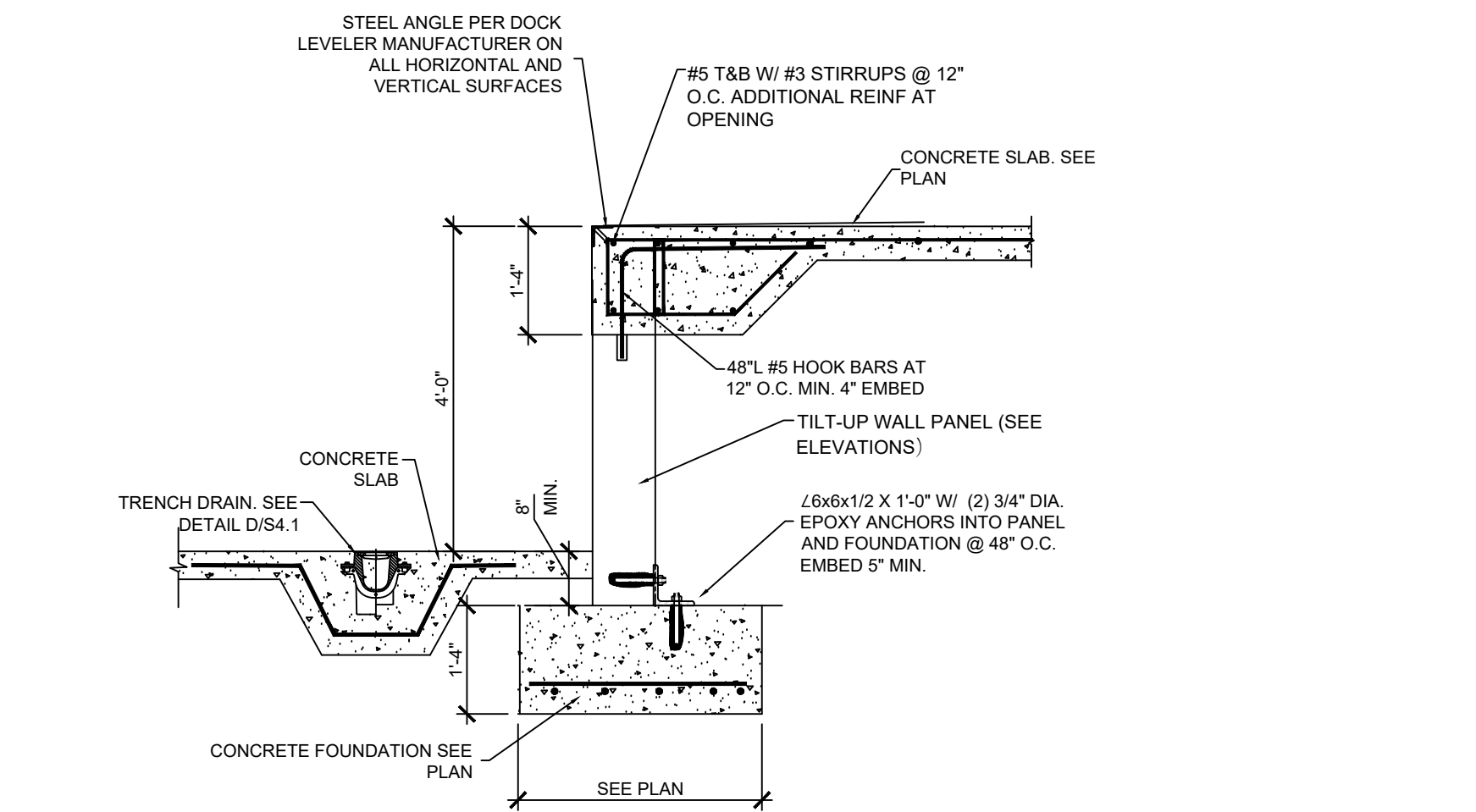
**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

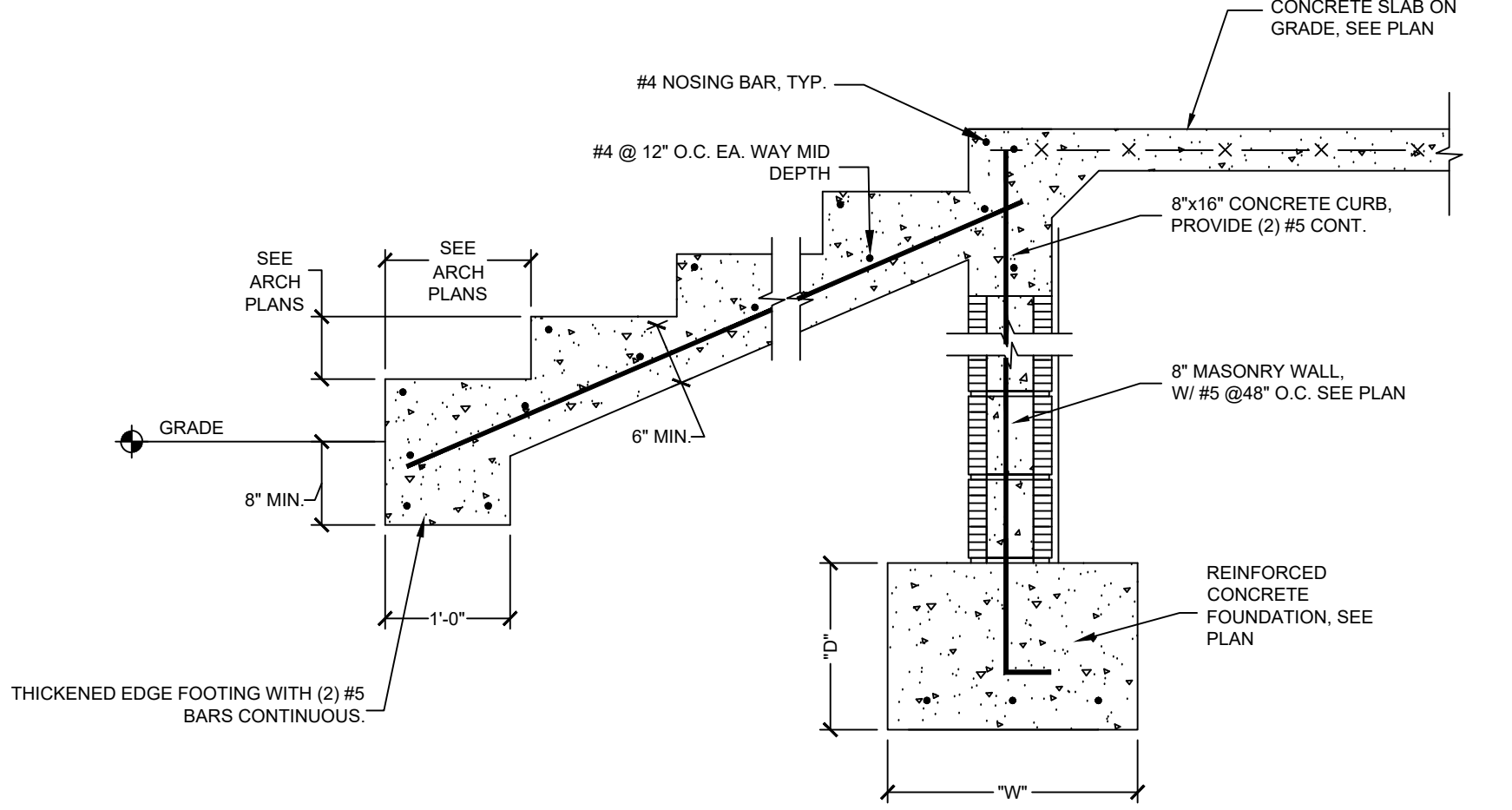
**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"

**F** ALTERNATE TILT-UP TO (SF) AND CONNECTION  
SCALE 1/2"=1'-0"



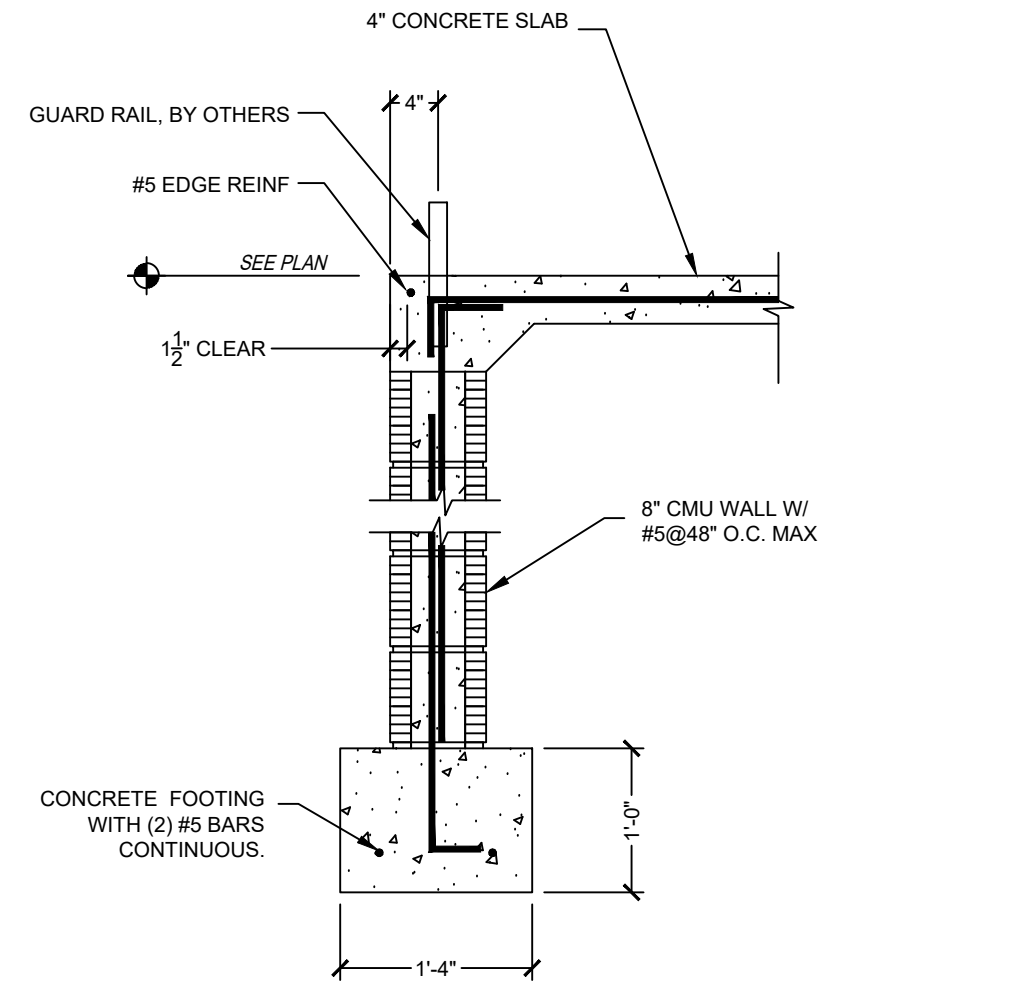
**A** OPTIONAL LOADING DOCK SECTION

SCALE 1/2"=1'-0"



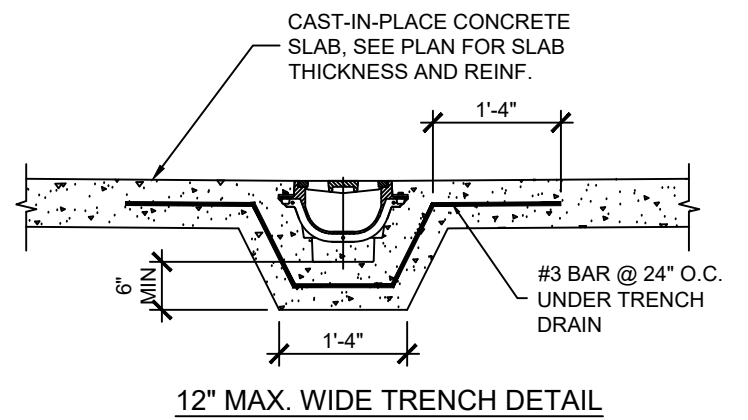
**B** STAIR DETAIL

SCALE 1/2"=1'-0"



**C** ELEVATED SIDEWALK EDGE

SCALE 1/2"=1'-0"



**D** TYP. TRENCH DETAIL

SCALE 1/2"=1'-0"

## BHASIN WAREHOUSE

ST. LUCIE BOULEVARD  
FORT PIERCE, FL

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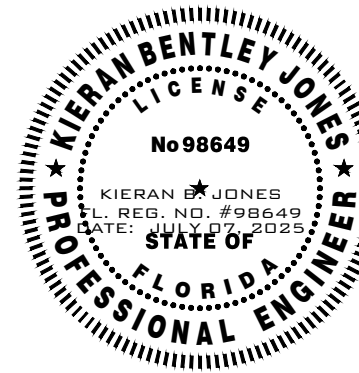
revisions		
item	description	date

scale  
AS NOTED

sheet title

## FOUNDATION SECTIONS AND DETAILS

seal/signature



Registered Engineer: Kieran B. Jones  
Registered Engineer License: PE 98649

sheet number

# S4.1

drawn by: KBJ checked by: KBJ



project number  
MK 25-007

ST. LUCIE BOULEVARD  
FORT PIERCE, FL

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scale

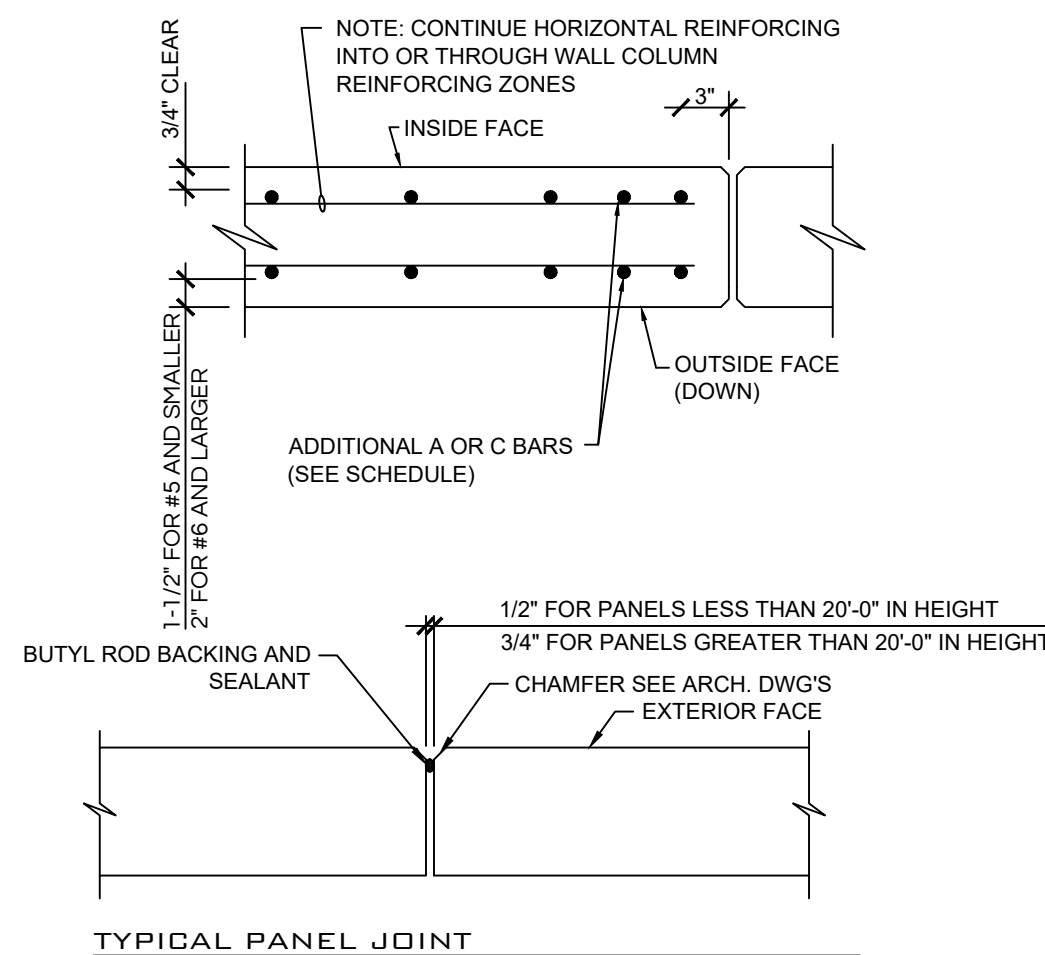
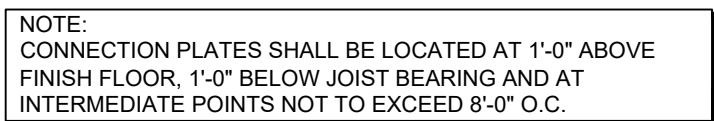
AS NOTED

## TILT WALL DETAILS

**\$5.0**

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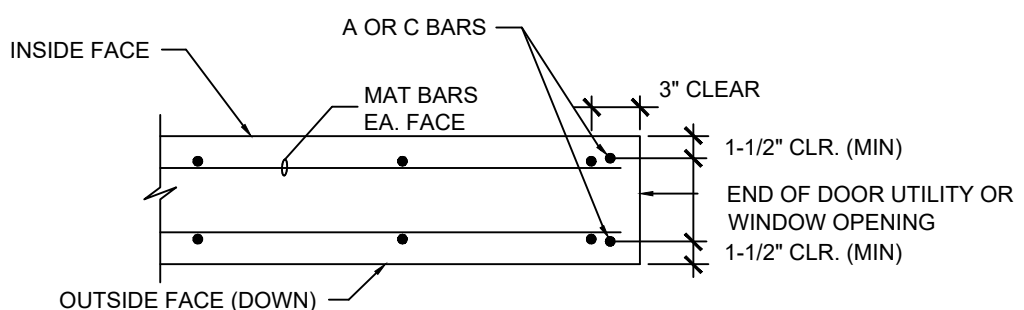
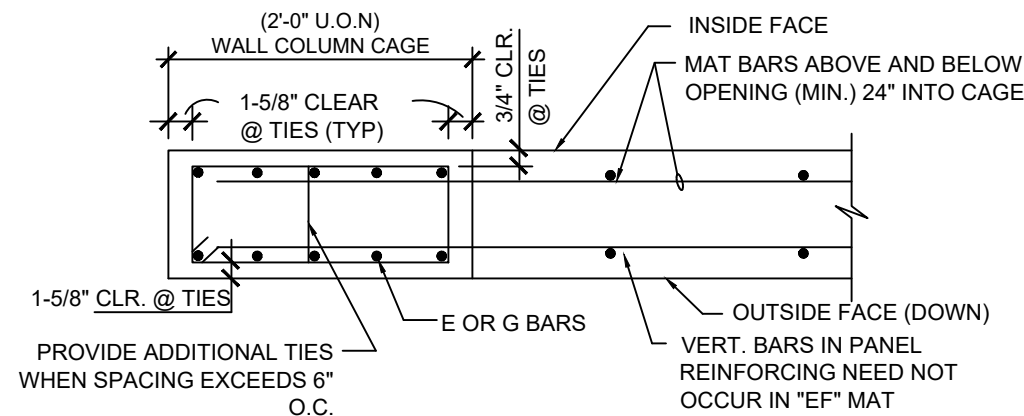
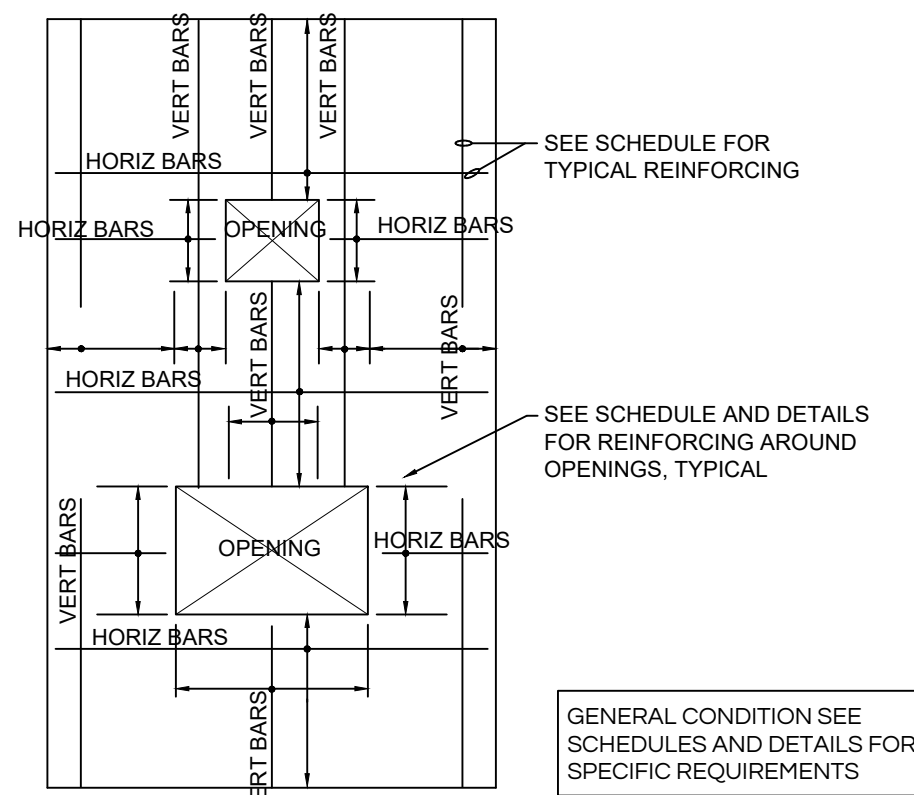
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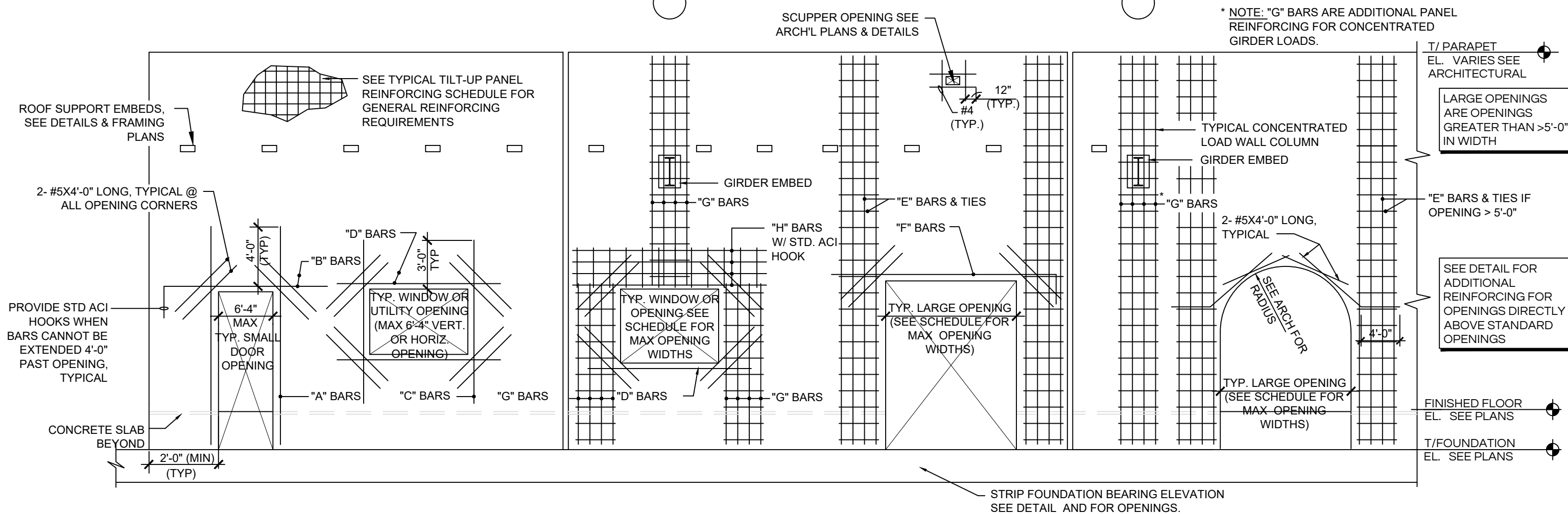
Architectural drawing of a wall section showing reinforcement details. The drawing includes a grid of vertical and horizontal reinforcing bars (#6@12" O.C. DOUBLE MAT) within a thickened slab bearing. Labels with leader lines point to these details. The wall sits on a finished floor and a foundation. A strip foundation bearing is shown at the base of the wall.

Labels and callouts:

- TI PARAPET
- EL VARIES SEE ARCH. ELEVATIONS
- VERTICAL REINFORCING #6@12" O.C. DOUBLE MAT
- HORIZONTAL REINFORCING #6@12" O.C. DOUBLE MAT
- THICKENED SLAB BEARING ELEVATION SEE DETAILS
- FINISHED FLOOR
- EL SEE PLANS
- TI FOUNDATION
- EL SEE PLANS
- STRIP FOUNDATION BEARING ELEVATION SEE DETAIL



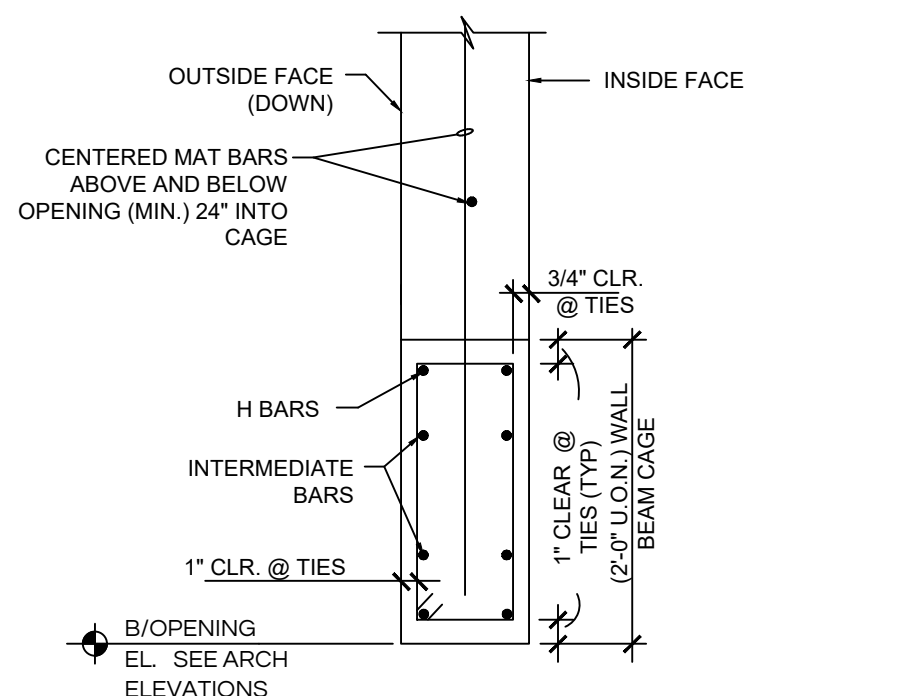
WALL COLUMN ADD'L REINF



PANEL	"A" BARS	"B" BARS	"C" BARS	"D" BARS	"E" BARS (TIES)	"F" BARS	"G" BARS (TIES)	"H" BARS (BEAM AND TIES)	OPENING WIDTH (MAX)
P1	2-#6	2-#6	2-#6	2-#6	6-#6 VERT. W/ #3 TIES @ 8" O.C.	2-#6	8-#6 VERT. W/ #3 TIES @ 8" O.C.	2-#7 HORIZ. T&B W/ #5 INTERMEDIATE W/ #3 TIES @ 8" O.C.	18'-0"

TYP. UTILITY OPENING ABOVE STANDARD OPENING

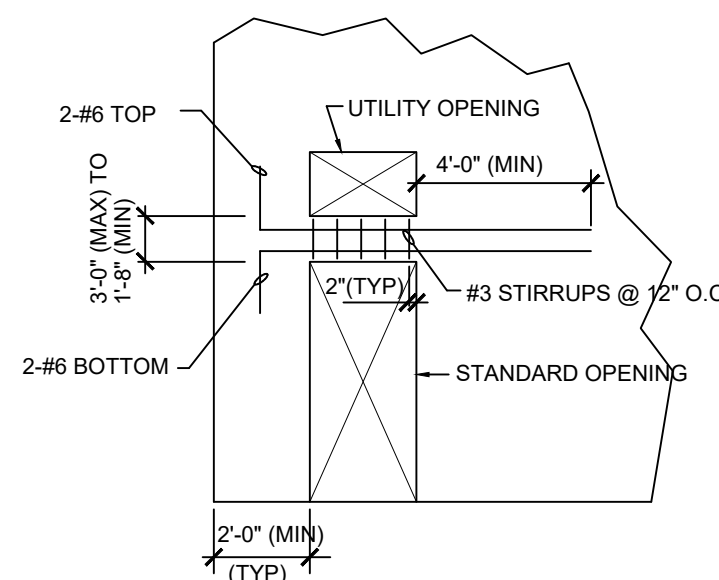
SCALE 1"=1'-0"



ELEVATIONS

TYPICAL "H" BAR DETAIL

SCALE 1"=1'-0"



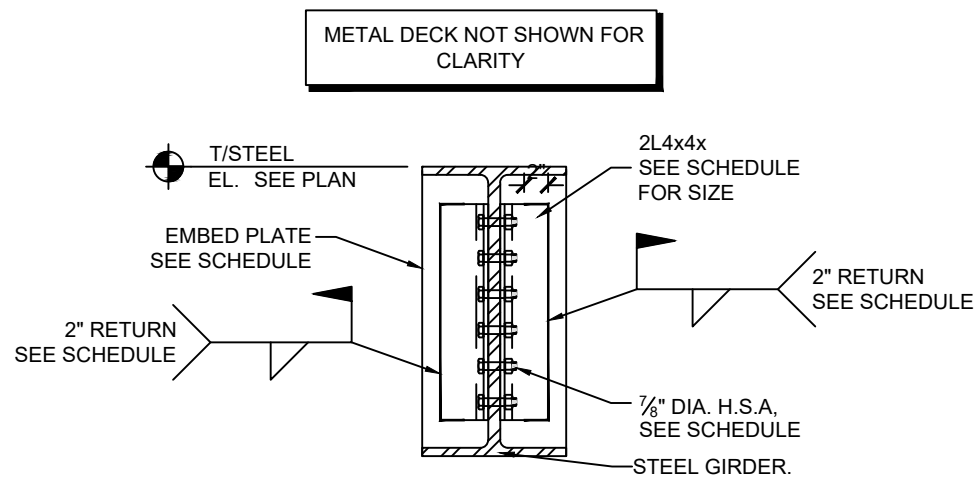
TYP. UTILITY OPENING ABOVE STANDARD OPENING

SCALE 1"=1'-0"

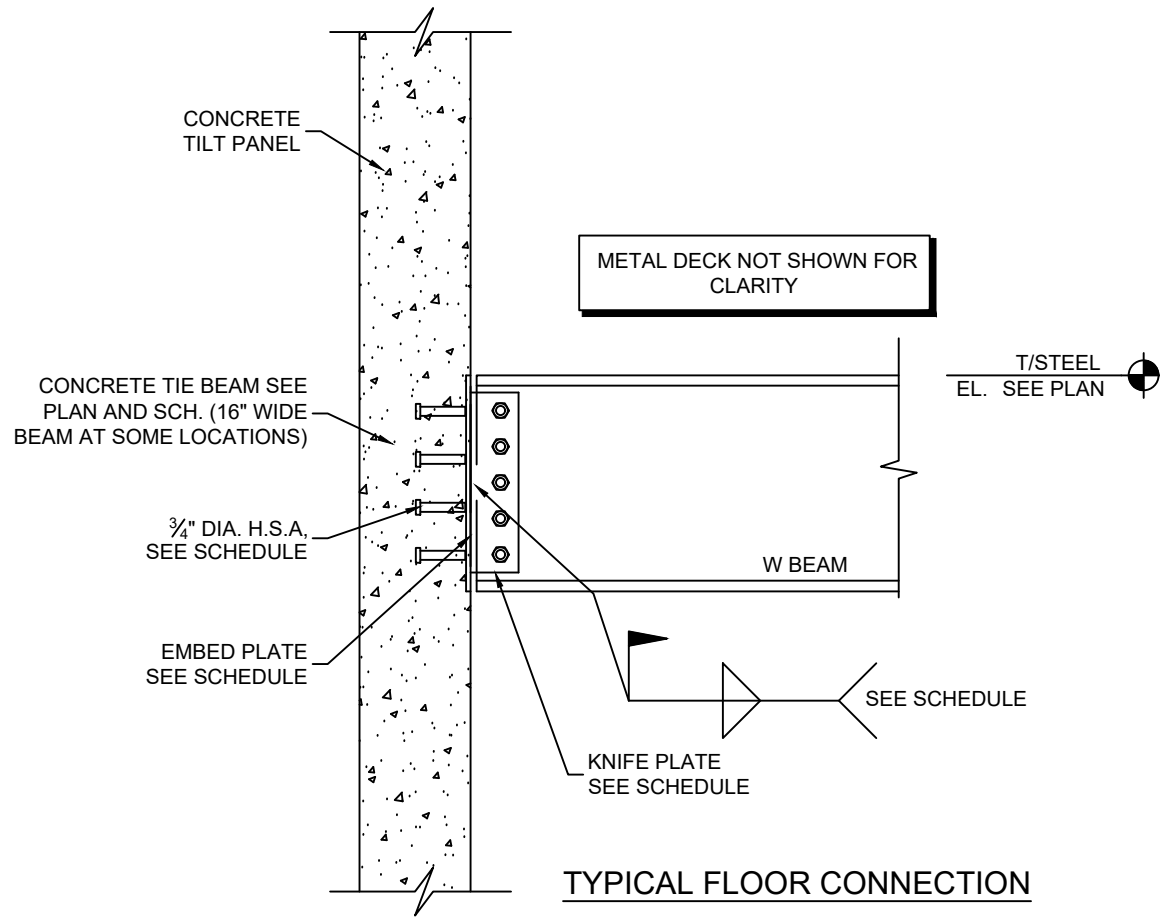
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MAIN GIRDER BEAM CONNECTION				
BEAM SIZE	NO. OF 3/8" DIA. A325-N BOLTS	ANGLE SIZE	AT TYPICAL CONDITION	
			EMBED PLATES	HEADED STUD ANCHORS (6")
W16	4-3/8" DIA.	2L4x4x3/8"x1'-0"	3/4"x1'-0"x1'-0"	8-3/4" DIA.
W18	5-3/8" DIA.	2L4x4x3/8"x1'-3"	3/4"x1'-0"x1'-10"	10-3/4" DIA.
W21	5-3/8" DIA.	2L4x4x3/8"x1'-3"	3/4"x1'-0"x1'-10"	10-3/4" DIA.
W24	6-3/8" DIA.	2L4x4x3/8"x1'-6"	3/4"x1'-0"x2'-2"	12-3/4" DIA.
W27, W30	7-3/8" DIA.	2L4x4x3/8"x1'-9"	3/4"x1'-0"x2'-5"	16-3/4" DIA.
W33	8-3/8" DIA.	2L4x4x3/8"x2'-0"	3/4"x1'-0"x3'-0"	20-3/4" DIA.

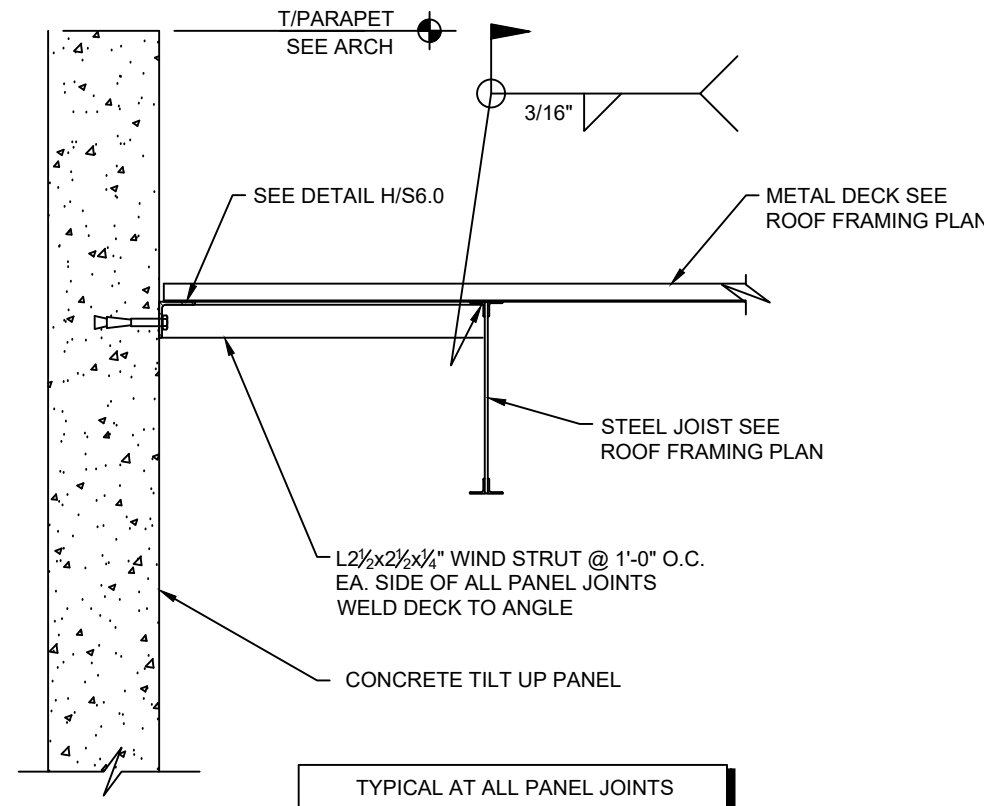
- NOTES:
- SEE SCHEDULE ABOVE FOR NUMBER OF BOLTS (3" GA.)
  - CONNECTIONS ARE VALID FOR BEAMS WITH STANDARD OR SHORT- SLOTTED HOLES, FULLY TIGHTENED OR SNUG TIGHT.



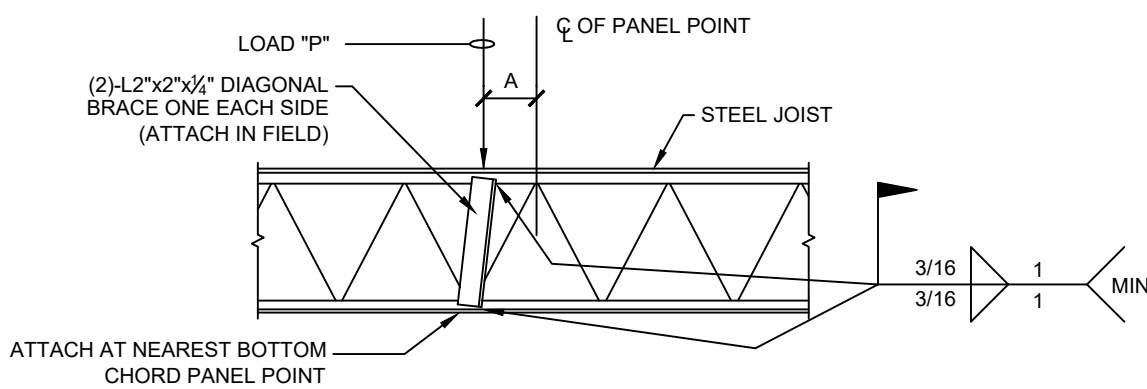
**A** TYPICAL ROOF GIRDER TO TIE BEAM OR COLUMN CONCRETE CONNECTION



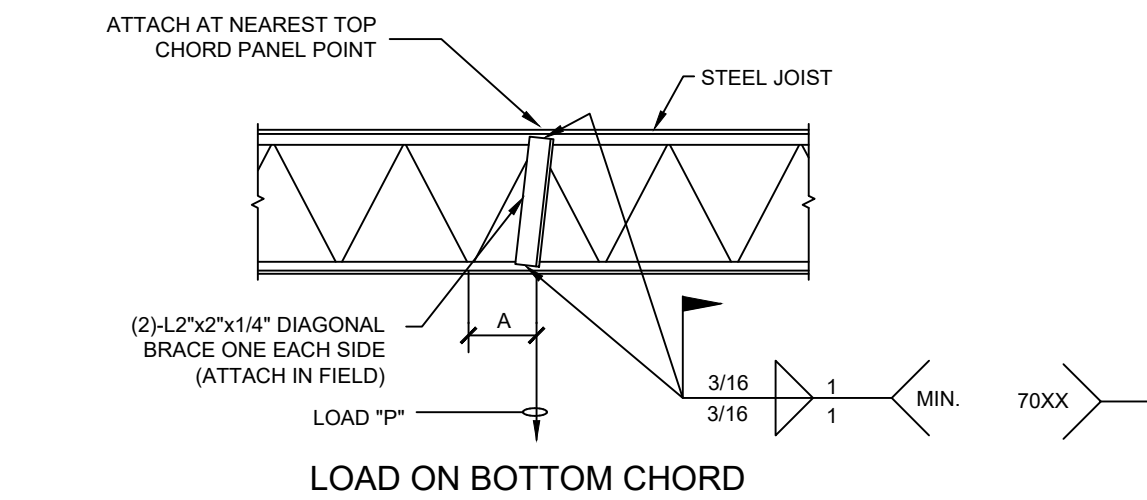
TYPICAL FLOOR CONNECTION



**B** ROOF DECK PANEL JOINT



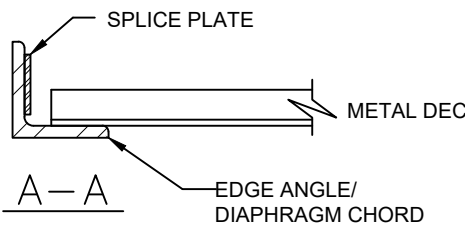
LOAD ON TOP CHORD



LOAD ON BOTTOM CHORD

- NOTES:
- DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN TWO INCHES.
  - PROVIDE DIAGONAL BRACE AT LOCATION OF CONCENTRATED LOADS SUCH AS PARTITIONS, HEAVY PIPES, MECHANICAL UNITS, HEAVY LIGHTS AND ANY OTHER CONCENTRATED LOADS AS DIRECTED BY ENGINEER.
  - P = CONCENTRATED LOAD GREATER THAN 200 LBS.

EDGE ANGLE/DIAPHRAGM CHORD SPLICES	
ANGLE	PLATE DIM.
L3x3x1/4"	1/2"x2 1/2"x9"
L4x4x1/4"	1/2"x3 1/2"x1'-0"
L5x3x1/4" LLV	1/2"x4 1/2"x1'-0"
L5x3x1/4" LLH	1/2"x2 1/2"x1'-2"



project number  
**MK 25-007**

## BHASIN WAREHOUSE

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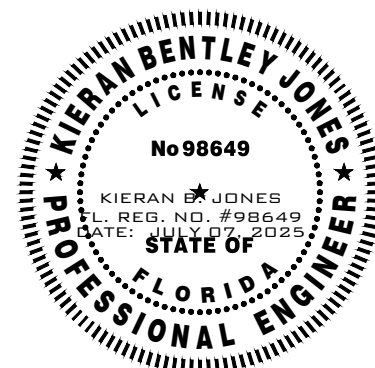
scale

AS NOTED

sheet title

## STRUCTURAL SECTIONS AND DETAILS

seal/signature



Registered Engineer: Kieran B. Jones

Registered Engineer License: PE 98649

sheet number

**S6.0**

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