

SPIRAL,SEE NOTE 4

TIE CONFIG - SPIRAL VERT CONFIG - CIRC TIE CONFIG - TIE VERT CONFIG - CIRC

SAMPLE CONFIGURATIONS

TIE CONFIGURATION KEY: 135° HOOK REQD AT EA END OF CROSSTIES, WHERE OCCURS LONG SIDE TIE COUNT SHORT SIDE TIE COUNT

- LONG SIDE VERTICAL BAR COUNT

- SHORT SIDE VERTICAL BAR COUNT

VERTICAL REINF CONFIGURATION KEY:

NOTES: 1. SEE THE FOLLOWING ACCOMPANYING DETAILS: "TYPICAL CONCRETE COLUMN"

"CONCRETE COLUMN TYPES"

"TYPICAL CONCRETE COLUMN BASE DOWELS"

2. VERTICAL REINFORCEMENT SPLICE LENGTHS ARE PER THE "TYPICAL COLUMN SPLICE TABLE"

(3) CONCRETE COLUMN SCHEDULE NOTES AND SAMPLE COLUMN SPECIFICATIONS

COLUMN TYPE

COLUMN SIZE

CONCRETE COLUMN SCHEDULE KEY:

24"x24" [1]

CONCRETE COLUMN SCHEDULE **COLUMN MARK** C2 LEVEL 20 င္က LEVEL 19 S LEVEL 18 يو LEVEL 17 24"x24" [1] 24"x24" [1] LEVEL 16 COLUMN SIZE, TYPE LEVEL 15 24"x24" [3] & SPLICE LENGTH LEVEL 14 LEVEL 13 은 LEVEL 12 24"x24" [1] " LEVEL 11 LEVEL 10 LEVEL 9 24"<sub>/</sub>x30" [1] LEVEL 8 30"x30" [2]

EXAMPLE PARTIAL CONCRETE COLUMN SCHEDULE

LEVEL 17 PER "COLUMN SPLICE TABLE" - 24"x24" [1] **EXAMPLE PARTIAL ELEVATION** 

DEGREE HOOKS AND 90 DEGREE HOOKS MAY BE REPLACED WITH 135 OR 180 DEGREE HOOKS. 2. CROSSTIES WITH 90 DEGREE HOOKS SHALL HAVE THE CONSECUTIVE CROSSTIES ALTERNATED END FOR END

1. TYPICAL CROSSTIES SHALL HAVE A 135 DEGREE HOOK AT ONE END AND A 90 DEGREE HOOK AT THE OTHER END

UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, 135 DEGREE HOOKS MAY BE REPLACED WITH 180

3. CIRCULAR TIES SHALL ALTERNATE POSITION OF LAPS 180 DEGREES EVERY OTHER HOOP.

4. REFER TO "TYPICAL CONCRETE COLUMN SPIRAL REINFORCING" FOR ADDITIONAL DETAILING REQUIRMENTS.

ALONG THE LONGITUDINAL REINFORCEMENT.

CONCRETE COLUMN TYPES

TOWER A CONCRETE COLUMN SCHEDULE 18"x32" [1] LEVEL 6 18"x32" [4] 18"x32" [1] LEVEL 5 ଟ୍ଲ LEVEL 4 S LEVEL 3 18"x32" [5] 18"x32" [4] 24"x24" [3] 24"x24" [3] 24"x24" [3] 24"x32" [15] 18"x32" [5] 24"x54" [7] 24"x24" [3] ပို့ LEVEL 2 LEVEL 1 32"x32" [2] 24"x24" [3] 24"x24" [3] 18"x32" [5] 18"x32" [5] 24"x24" [3] 12"x60" [8] 🗡 18"x32" [5] 24"x24" [3] 18"x32" [4] 18"x32" [1] 12"x60" [8] 18"x32" [4] 24"x24" [6] 24"x24" [6] 24"x24" [6] 24"x24" [6] LEVEL P2 24"x24" [6] 18"x32" [4] FOUNDATION AC18 AC19 **COLUMN MARK** AC1 AC2 AC3 AC4 AC5 AC6 AC7 AC8 AC9 AC10 AC11 AC12 AC13 AC14 AC15 AC16 AC17

6 TOWER A CONCRETE COLUMN SCHEDULE

									TOWER B CO	ONCRETE COLUMN	SCHEDULE									
LEVEL 7	<u> </u>	<u> </u>	<b>^</b>	<b>1</b>	18"x32" [1]	<u> </u>	<b>^</b>	<b>^</b>	<b>1</b>	<u> </u>	<u> </u>	<b>1</b>	<u> </u>	<b>1</b>						<u> </u>
LEVEL 6					<b>^</b>															
LEVEL 5																				
LEVEL 4			18"x32" [5]																	
LEVEL 3		18"x32" [5]	32"x40" [10]	24"x24" [3]		24"x24" [3]		24"x24" [3]		18"x32" [5]	18"x32" [5]	18"x32" [5	5] 18"x32" [5]	18"x32" [5]						
LEVEL 2	1	32"x32" [2]	<b>1</b>	<b>^</b>	18"x32" [5]	24"x54" [7]		32"x32" [2]		32"x41" [10]	18"x32" [4]	32"x32" [2	2] 32"x42" [10]	32"x32" [2]			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			24"x24" [3]
LEVEL 1	18"x32" [5]	<b>^</b>			<b>1</b>	$\uparrow$		<b>1</b>	18"x32" [5]	<b>^</b>						<b>^</b>	$\uparrow$	<b>1</b>		mm
LEVEL P1	18"x32" [4]		18"x32" [4]	24"x24" [6]	18"x32" [4]	24"x24" [6]		24"x24" [6]	1			12"x60"/[1	6] / 12"x60" [12]	12"x60" [12]	12"x60" [8]	18"x32" [5]	24"x24" [3]	24"x24" [6]	18"x32" [5]	2
LEVEL P2		18"x32" [4]					12"x60" [8]		18"x32" [4]	18"x32" [4]					(	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				3
FOUNDATION																Turre				
COLUMN MARK	BC1	BC2	BC3	BC4	BC5	BC6	BC7	BC8	BC9	BC10	BC11	BC12	BC13	BC14	BC15	BC16	BC17	BC18	BC19	BC20

TOWER B CONCRETE COLUMN SCHEDULE

				TO	WER C CONCRETE C	COLUMN SCHEDULE		\(\tau\) \(\tau\) \(\tau\)				
LEVEL 8	18"x32" [11]	<b>^</b>	18"x32" [11]	<b>1</b>		18"x32" [11]		<b>^</b>	18"x32" [14]			
LEVEL 7	<b>^</b>		<b>^</b>			<b>^</b>	(		<b>^</b>	<b>1</b>		
LEVEL 6												
LEVEL 5 LEVEL 4												
LEVEL 4						18"x32" [5]						
LEVEL 3		12"x48" [12]	18"x32" [5]	12"x48" [12]			Y Y Y				18"x24" [4]	<b>^</b>
LEVEL 2		30"x48" [13]	32"x32" [2]	<b>1</b>						18"x32" [5]		
LEVEL 1	18"x32" [5]	18"x32" [4]	24"x24"[6] 18"x32" [1]	18"x36" [4]	18"x24" [4]	18"x32" [4]	18"x32" [5]	18"x32" [5]	18"x32" [5]			24"x24" [6]
FOUNDATION									}			
COLUMN MARK	CC1	CC2	CC3 CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13

TOWER C CONCRETE COLUMN SCHEDULE

KLEMENCIC ASSOCIATES Structural + Civil Engineers Seattle Chicago www.mka.com 206 292 1200 no. date CONSTRUCTION DOCUMENTS 11/18/2022 COLUMN SCHEDULES S4.00

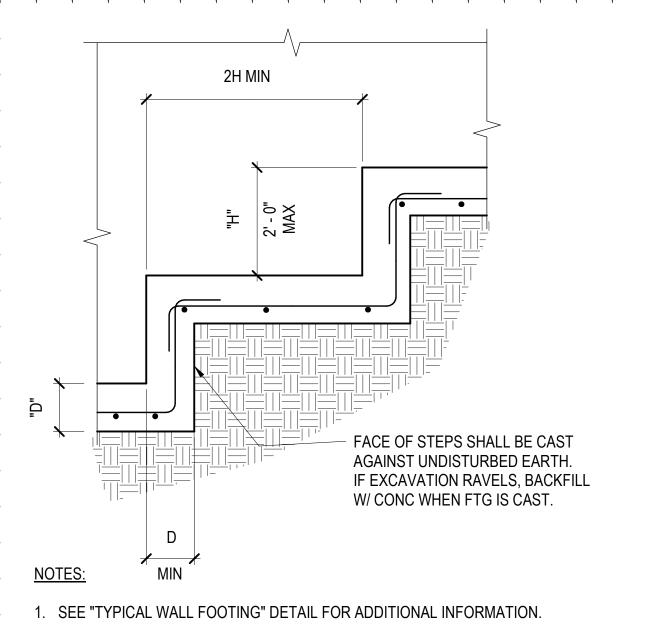
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Kundig

Olson

MAGNUSSON

project:
SOMMET
DEER VALLEY,



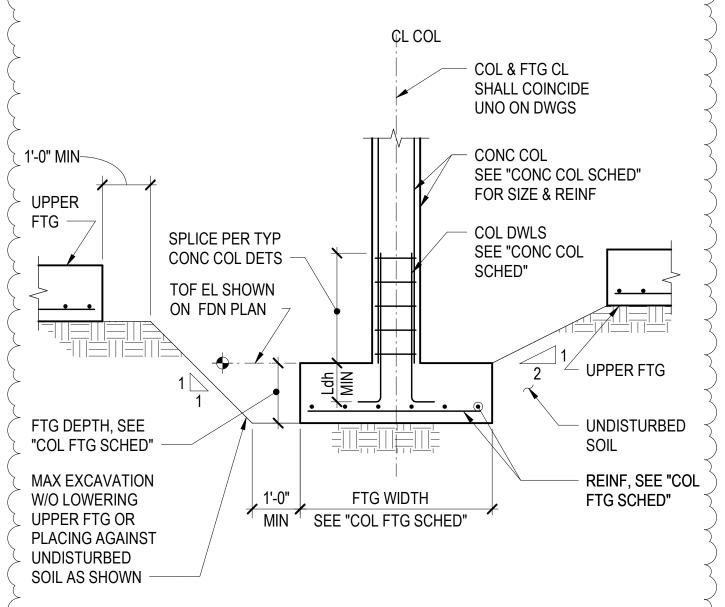
#### TYPICAL STEPPED WALL FOOTING

		COLUMN FO	OTING SCHEDUL	E
MARK	SIZE	DEPTH	REINFORCING EACH WAY BOTTOM	REMARKS
F1	6' - 0"x6' - 0"	2' - 6"	#8 @ 12"	#5 @ 6" EW TOP REINF
F2	10' - 0"x10' - 0"	2' - 0"	(10) #7	
F3	12' - 0"x12' - 0"	2' - 0"	(12) #8	
F4	7' - 0"x7' - 0"	2' - 6"	(7) #7	
F5	12' - 0"x12' - 0"	2' - 6"	(12) #8	
F6	15' - 0"x15' - 0"	2' - 9"	(15) #8	

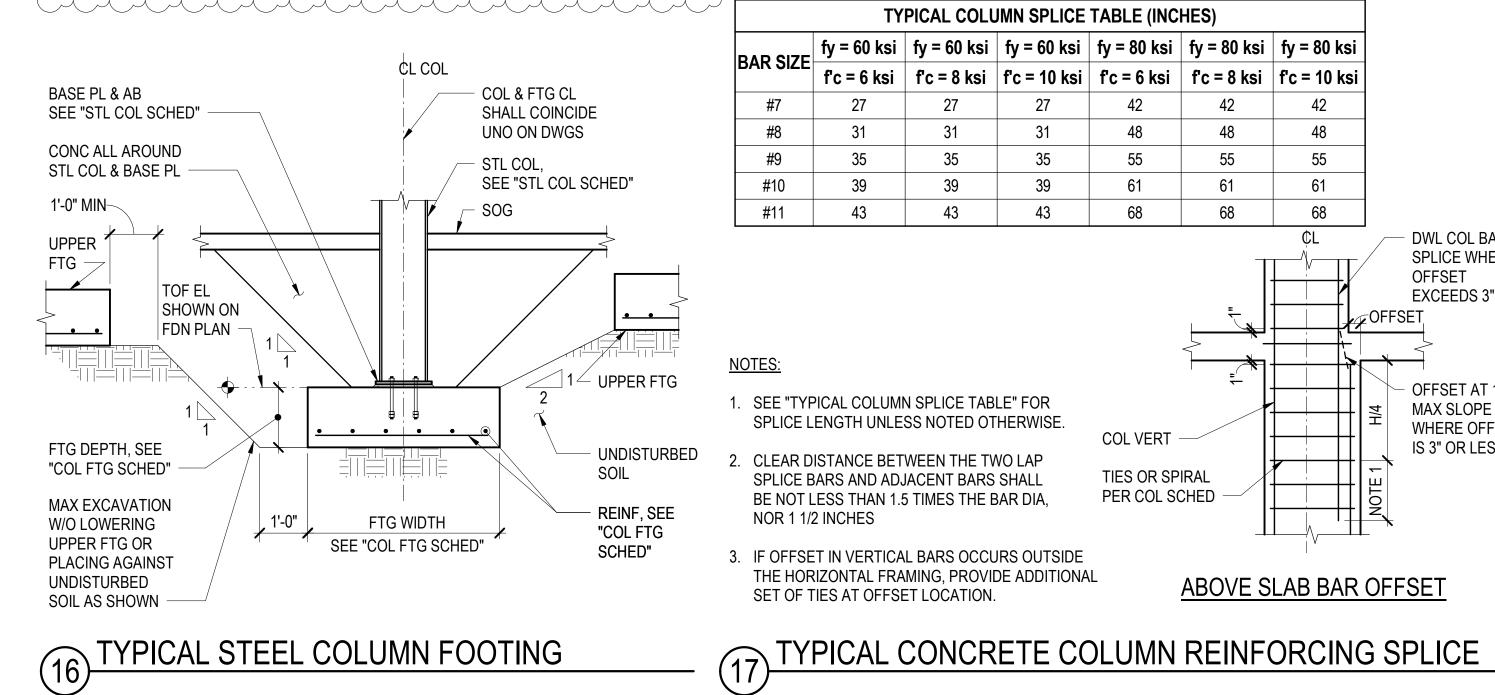
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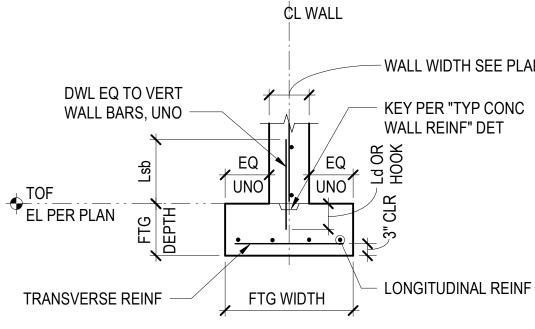
1. SEE TYPICAL COLUMN FOOTING DETAILS.

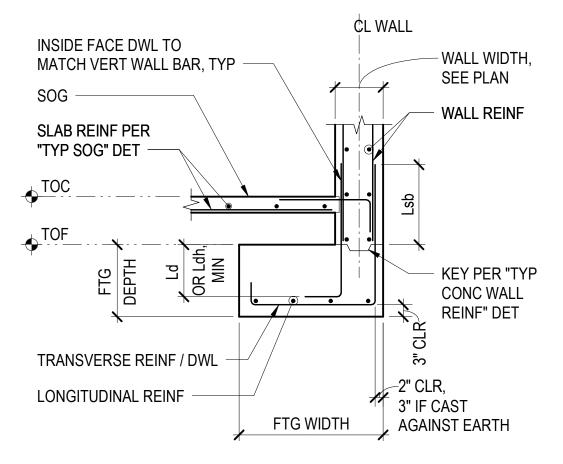
# COLUMN FOOTING SCHEDULE



# TYPICAL CONCRETE COLUMN FOOTING







	WALL FOOTING SCHEDULE									
MARK	WIDTH	DEPTH	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING	REMARKS					
WF1	3' - 4"	2' - 0"	(5) #6	#6 @ 12"	L-SHAPED FOOTING					
WF2	1' - 6"	1' - 0"	(3) #5	#5 @ 12"	T-SHAPED FOOTING					

- 3. SEE "WALL FOOTING SCHEDULE" FOR DIMENSIONS AND REINFORCEMENT

TYPICAL COLUMN SPLICE TABLE (INCHES)

43

 $\mid$  fy = 60 ksi  $\mid$  fy = 60 ksi  $\mid$  fy = 60 ksi  $\mid$  fy = 80 ksi  $\mid$  fy = 80 ksi  $\mid$  fy = 80 ksi

f'c = 8 ksi | f'c = 10 ksi | f'c = 6 ksi | f'c = 8 ksi | f'c = 10 ksi

68

COL VERT

TIES OR SPIRAL

PER COL SCHED -

42

48

55

61

68

**ABOVE SLAB BAR OFFSET** 

- DWL COL BAR SPLICE WHERE

OFFSET

EXCEEDS 3"

OFFSET AT 1:6

WHERE OFFSET

IS 3" OR LESS

MAX SLOPE

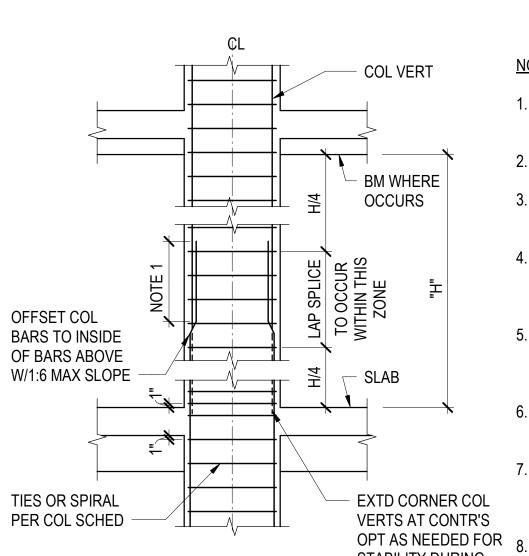
61

68

#### TYPICAL WALL FOOTING

#### PILASTER CONC WALL CONC fc PER GENERAL NOTES fc PER COL SCHED fc PER GENERAL NOTES BSMT WALL REINF CL COL **CONT BEHIND PILASTER** PER CONC WALL HORIZ REINF COL SCHED CONT THRU PILASTER REINF PER CONC PER CONC COL SCHED COL SCHED

. CENTERLINES OF PILASTER AND COLUMN ABOVE COINCIDE UNLESS NOTED OTHERWISE ON PLAN. CONCRETE AT PILASTER TO BE CAST IN PLACE. SHOTCRETE NOT PERMITTED AT



STABILITY DURING TYPICAL COL SPLICE CONSTRUCTION

- NOTE 1

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Kundig

Olson

MAGNUSSON KLEMENCIC

Structural + Civil Engineers

ASSOCIATES

Seattle Chicago

www.mka.com 206 292 1200

date 11/18/2022

1 11/18/2022 IFC

CONSTRUCTION

DOCUMENTS

11/18/2022

**TYPICAL** 

CONCRETE

**COLUMN DETAILS** 

no. date

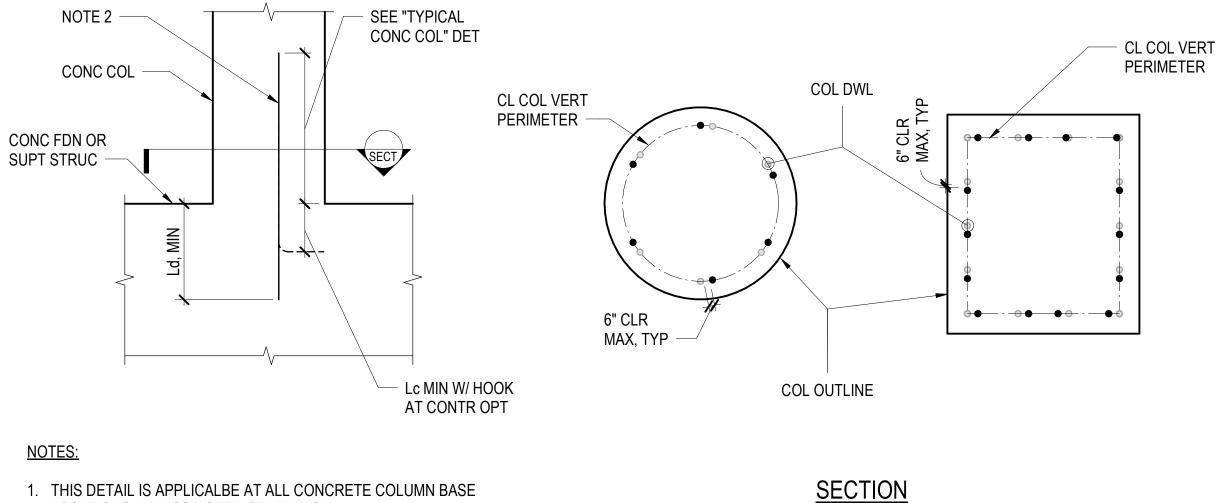
BLANC

project:
SOMMET
DEER VALLEY,

NOTES:

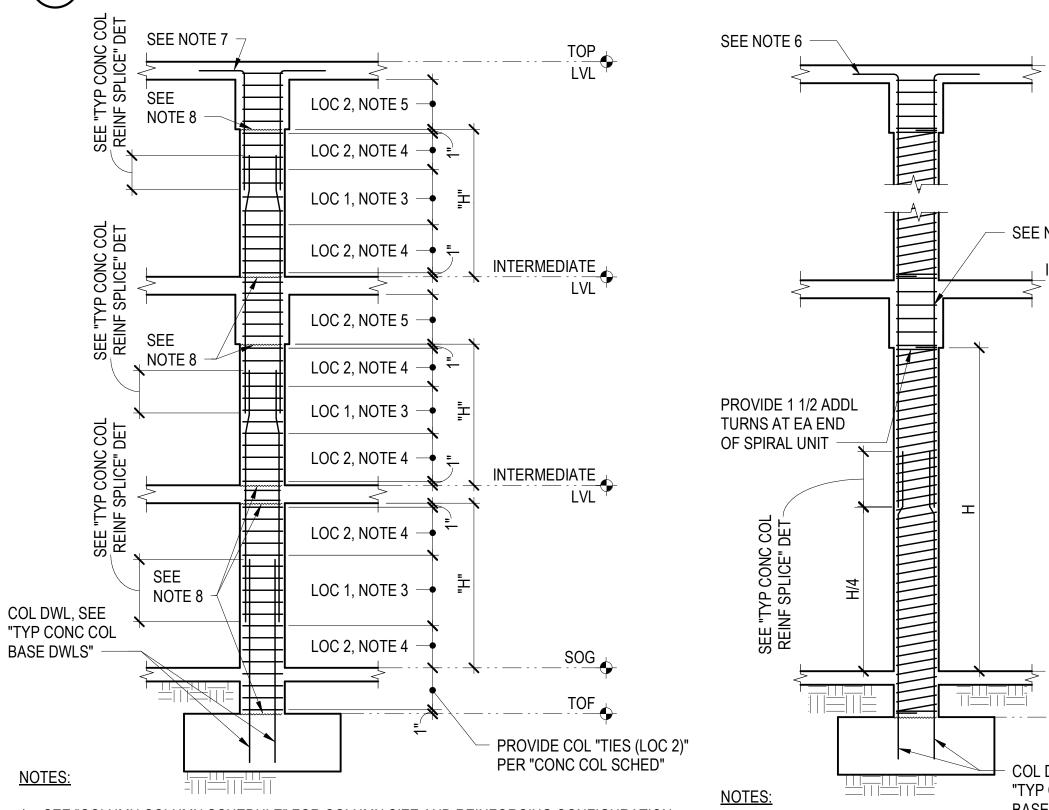
1. WHERE THE COLUMN CONCRETE fc IS GREATER THAN 1.4 TIMES THE SLAB CONCRETE f'c, PUDDLE CONCRETE WITH f'c EQUAL TO OR GREATER THAN THE COLUMN CONCRETE fc WITHIN THE HATCHED AREA.

# TYPICAL CONCRETE PLACEMENT AT COLUMN TO SLAB JOINT

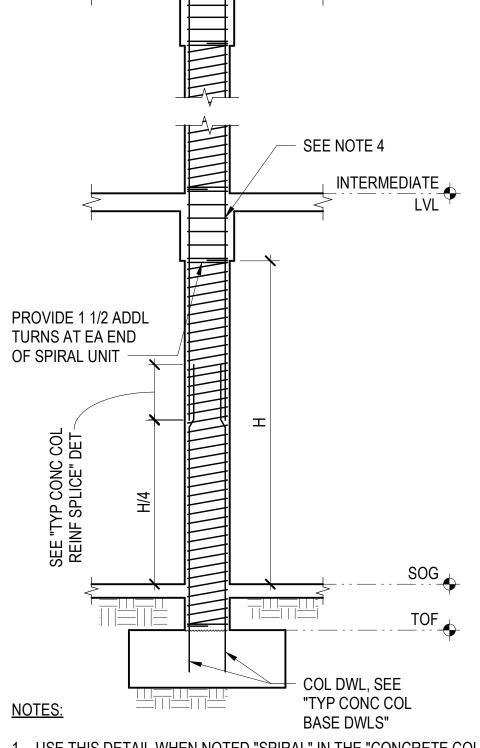


- 1. THIS DETAIL IS APPLICALBE AT ALL CONCRETE COLUMN BASE LOCATIONS UNLESS NOTED OTHERWISE.
- 2. DOWEL SIZE AND QUANTITY TO MATCH VERTICAL REINFORCEMENT.

### TYPICAL CONCRETE COLUMN BASE DOWELS

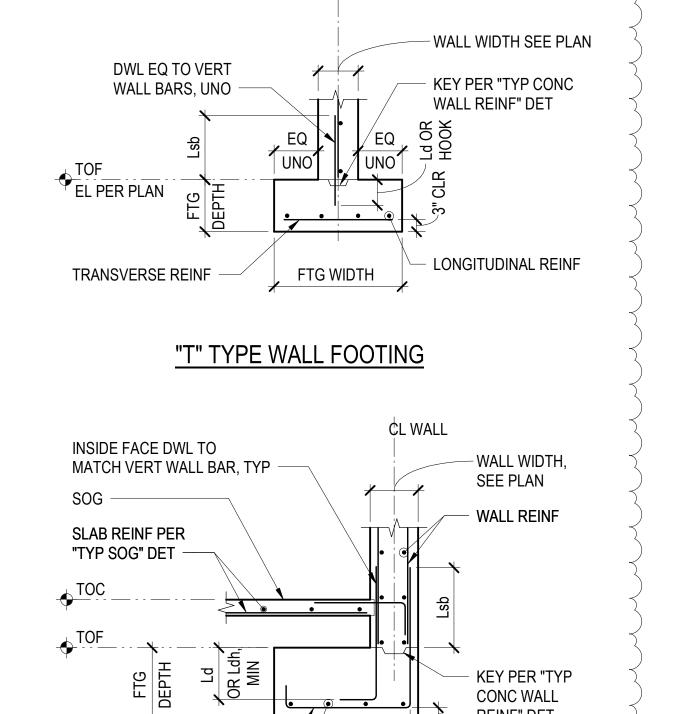


- 1. SEE "COLUMN COLUMN SCHEDULE" FOR COLUMN SIZE AND REINFORCING CONFIGURATION
- 2. COLUMN VERTICAL REINFORCING SHALL BE SPECIAL DUCTILE QUALITY. SEE "GENERAL NOTES." 2. SEE "CONCRETE COLUMN SCHEDULE" FOR COLUMN SIZE AND REINFORCING
- . SEE "CONCRETE COLUMN TYPE SCHEDULE" UNDER "LOC 1 TIES" FOR TIE SIZE, SPACING, AND REINFORCING CONFIGURATION. REINFORCING CONFIGURATION TYPE IS NOTED IN []
- 4. FOR H/6, MAXIMUM COLUMN DIMENSION, OR 18 INCHES (WHICHEVER IS GREATER), SEE "COLUMN TYPE SCHEDULE" UNDER "LOC 2 TIES" FOR TIE SIZE, SPACING, AND REINFORCING CONFIGURATION. REINFORCING CONFIGURATION TYPE IS NOTED IN [].
- 5. PROVIDE "LOC 2 TIES" THROUGHOUT THE BEAM AND SLAB DEPTH, EXCEPT THAT THE TIE SPACING MAY BE INCREASED TO 6" WHERE BEAMS FRAME INTO FOUR SIDES OF COLUMN FOR THE DEPTH OF THE MOST SHALLOW BEAM.
- AT CONTRACTOR'S OPTION, COLUMN VERTICAL BARS MAY BE EXTENDED UP ADDITIONAL FLOOR LEVELS WITHOUT SPLICING BETWEEN FLOORS.
- 7. PLACE HORIZONTAL HOOKS DIRECTLY BELOW TOP BARS OF BEAMS OR SLABS. SPLAY HOOKS AS NECESSARY TO RELIEVE BAR CONGESTION. AT CONTRACTOR'S OPTION, HOOKS MAY BE PLACED TOWARD THE INSIDE OF THE COLUMN.
- B. UNLESS NOTED OTHERWISE, COLUMN CONSTRUCTION JOINTS SHALL BE AT THE UNDERSIDE OF FLOOR SLABS, BEAMS, OR GIRDERS, AND AT THE TOPS OF FOOTINGS OR FLOOR SLABS. BEAMS, GIRDERS, BRACKETS, COLUMNS CAPITALS, HAUNCHES, AND DROP PANELS SHALL BE PLACED AT THE SAME TIME AS SLABS.
- TYPICAL CONCRETE COLUMN



- 1. USE THIS DETAIL WHEN NOTED "SPIRAL" IN THE "CONCRETE COLUMN TYPE SCHEDULE.
- CONFIGURATION TYPE.
- SPIRALS SHALL BE CONTINUOUS FROM TOP OF SLAB OR FOOTING TO SLAB OR **BEAM SOFFIT ABOVE**
- 4. EXTEND SPIRALS CONTINUOUSLY THROUGHOUT THE BEAM AND SLAB DEPTH OR PROVIDE CIRCULAR TIES AT SIZE AND SPACING TO MATCH SPIRAL SIZE AND PITCH. THE TIE SPACING MAY BE INCREASED TO 6" WHERE BEAMS FRAME INTO FOUR SIDES OF THE COLUMN FOR THE DEPTH OF THE MOST SHALLOW BEAM.
- 5. AT CONTRACTOR'S OPTION, COLUMN VERTICAL BARS MAY BE EXTENDED UP ADDITIONAL FLOOR LEVELS WITHOUT SPLICING BETWEEN FLOORS.
- 6. PLACE HORIZONTAL HOOKS DIRECTLY BELOW TOP BARS OF BEAMS OR SLABS. SPLAY HOOKS AS NECESSARY TO RELIEVE BAR CONGESTION. AT CONTRACTOR'S OPTION, HOOKS MAY BE PLACED TOWARD THE INSIDE OF THE COLUMN.
- 7. UNLESS NOTED OTHERWISE, COLUMN CONSTRUCTION JOINTS SHALL BE AT THE UNDERSIDE OF FLOOR SLABS, BEAMS, OR GIRDERS, AND AT THE TOPS OF FOOTINGS OR FLOOR SLABS. BEAMS, GIRDERS, BRACKETS, COLUMNS CAPITALS, HAUNCHES, AND DROP PANELS SHALL BE PLACED AT THE SAME TIME AS SLABS.

TYP CONCRETE COLUMN SPIRAL REINFORCING



"L" TYPE WALL FOOTING

#10

#11

SPLICE LENGTH UNLESS NOTED OTHERWISE

CLEAR DISTANCE BETWEEN THE TWO LAP

SPLICE BARS AND ADJACENT BARS SHALL

SET OF TIES AT OFFSET LOCATION.

NOR 1 1/2 INCHES

BE NOT LESS THAN 1.5 TIMES THE BAR DIA,

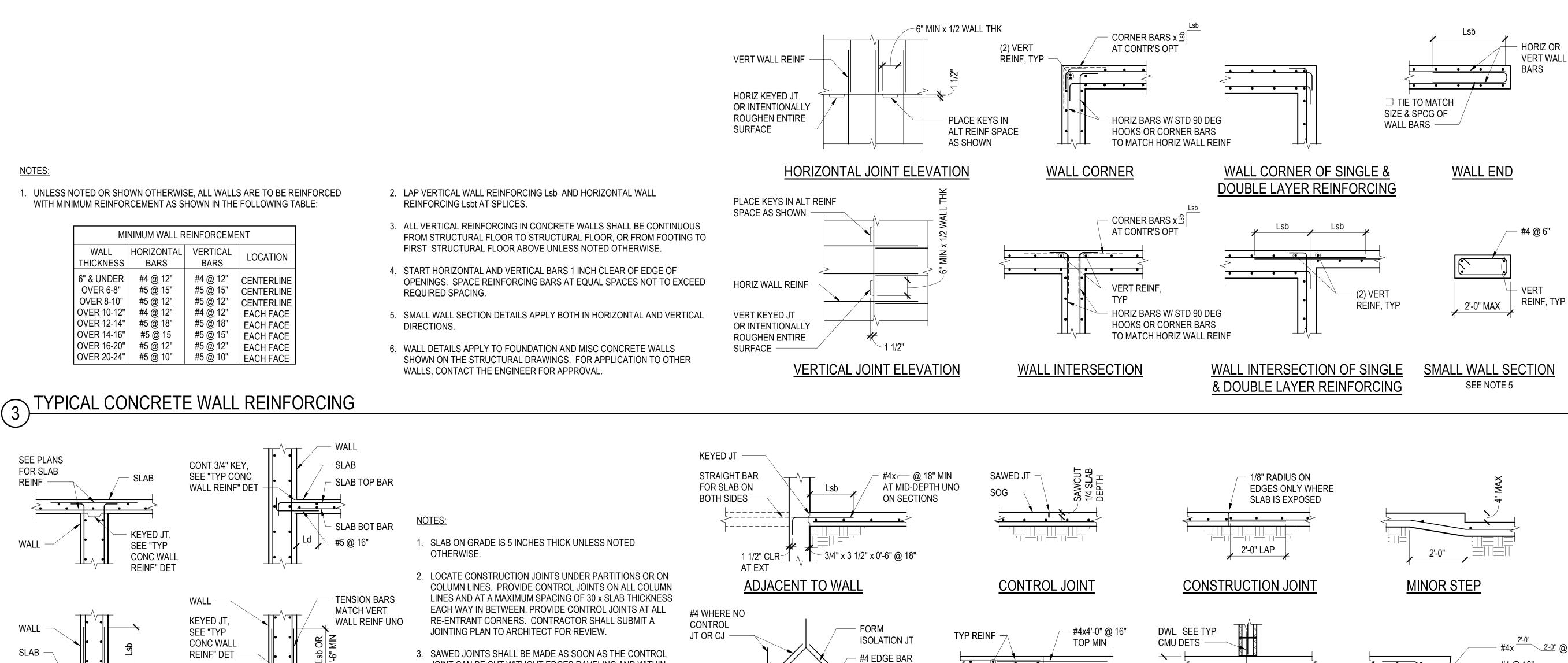
IF OFFSET IN VERTICAL BARS OCCURS OUTSIDE

THE HORIZONTAL FRAMING, PROVIDE ADDITIONAL

- 1. SEE "TYPICAL COLUMN FOOTING" DETAIL FOR EXCAVATION INFORMATION.
- 2. LAP SPLICE LONGITUDINAL REINFORCEMENT Lsb.
- **UNLESS NOTED OTHERWISE**

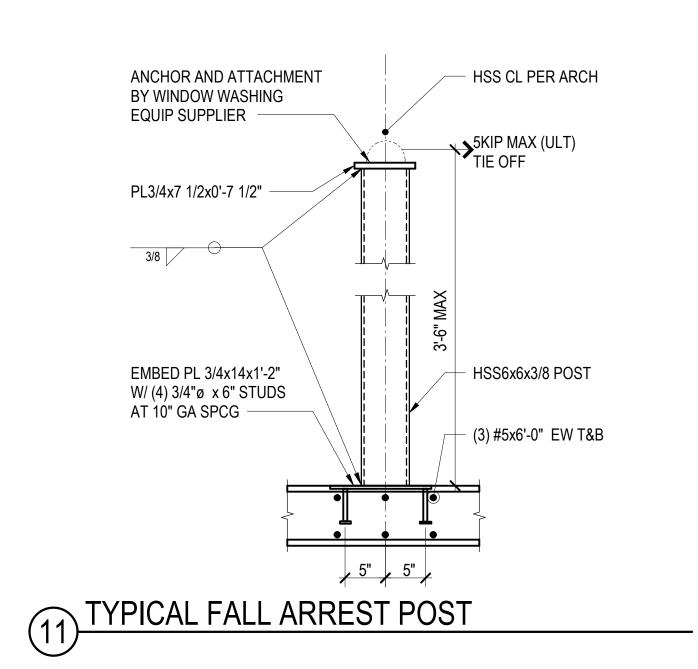
TYPICAL PILASTER

PILASTER.



INFILL AFTER

FORMS REMOVED



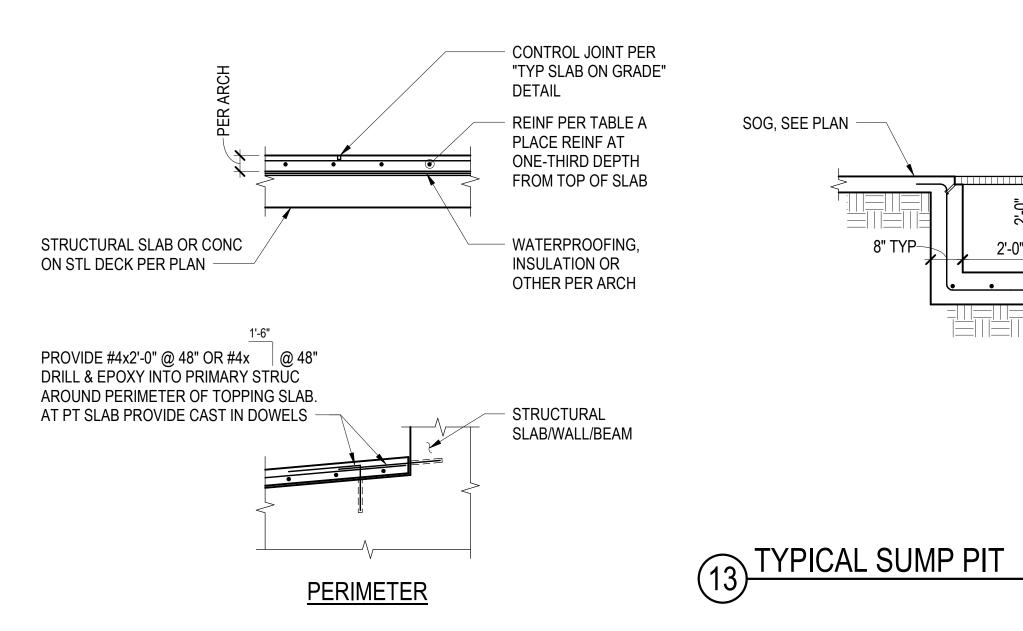
CLADDING PER ARCH —

PL1/2x12x1'-0" W/ (4) 5/8" ø x 6" STUDS @ 8" GA SPCG

PRECAST CONC BALCONY

BENT PL1/4x6 CONT (4) SIDES; W/ 1/2" DIA STUDS @ 18" OC —

NOTES:



KEYED JT,

SEE "TYP"
CONC WALL

REINF" DET

TYPICAL CONCRETE REINFORCING AT

INTERSECTION OF SLABS AND WALLS

TABLE A									
THICKNESS (IN)	MINIMUM REINFORCING								
2	#3 @ 12" EW OR WWR 6X6 - W2.5XW2.5								
3	#3 @ 12" EW OR WWR 6X6 - W3.5XW3.5								
4	#3 @ 12" EW OR WWR 6X6 - W4.5XW4.5								
5	#3 @ 12" EW OR WWR 6X6 - W5.5XW5.5								
6	#4 @ 12" EW OR WWR 6X6 - W6.5XW6.5								
7	#4 @ 12" EW OR WWR 6X6 - W8XW8								
8	#4 @ 12" EW OR WWR 6X6 - W9XW9								

# O O PL1/2x10x1'-0" W/ (4) 7/8"ø A325 BOLTS

− PL1/2x10

5/16

1. CONNECTION TO BE PROVIDED AT 4'-0" MAX SPACING. MINIMUM OF (2)

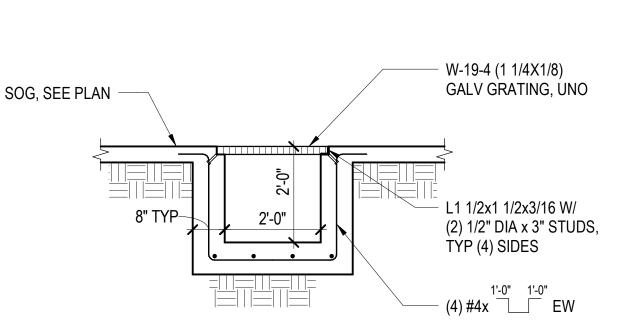
THAN 12" FROM ANY EDGE OF BALCONY SLAB.

CONNECTIONS PER BALCONY EDGE. FIRST CONNECTION TO OCCUR NO MORE

TYPICAL PRECAST BALCONY CONNECTION

- 1. SEE "TYPICAL SLAB ON GRADE" DETAILS FOR ADDITIONAL INFORMATION.
- 2. AT CONTRACTORS OPTION, AT DEPRESSED AREAS, ACCEPTABLE TO PROVIDE CONCRETE TOPPING OF MINIMUM THICKNESS REQUIRED PER ARCHITECTURAL (4" MIN) ON POLYSTYRENE PER "TYPICAL BUILT-UP SLAB ON POLYSTYRENE.





#4 @ 18" EACH WAY TOP

JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 24 HOURS OF SLAB PLACEMENT. SAWED JOINTS SHALL BE

GREATER THAN 6" SLAB: #5 @ 18" EACH WAY BOT

FILLED WITH SEALANT AS COORDINATED WITH THE

4. LOCATE REINFORCING AT MID-DEPTH OF SLAB UNO.

4" - 6" SLAB: #4 @ 18" EACH WAY

(8) TYPICAL SLAB ON GRADE

ARCHITECT.

5. TYPICAL SLAB REINFORCING:

**KEEP SLAB &** 

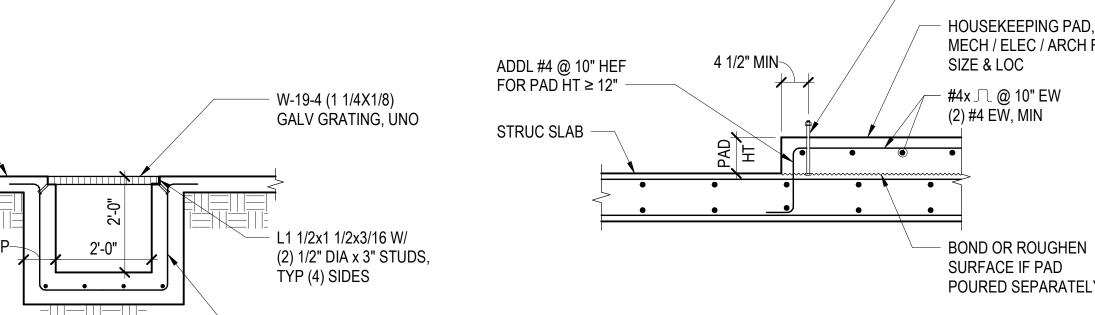
WALL SHORED

HAVE REACHED

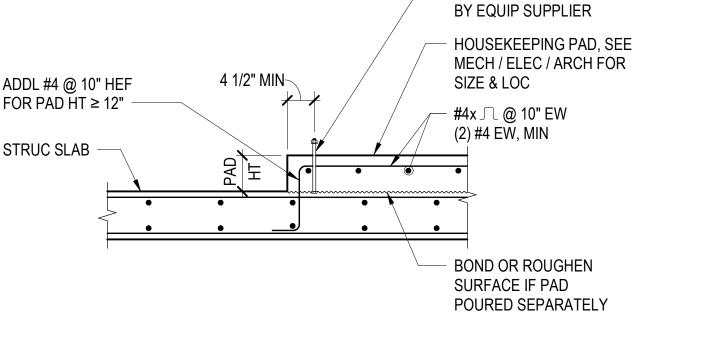
28 DAY DESIGN

UNTIL BOTH

STRENGTH

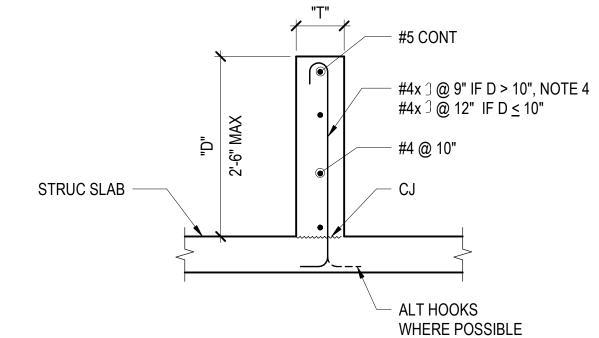


**ISOLATION JOINT AT COLUMN** 



ADJACENT TO STRUCTURAL SLAB

ANCHOR ROD AS REQD



STEPS ON GRADE

— #3x <sup>1'-6"</sup> \_ 1'-6" @ 18"

(2) #5 BOT CONT

(2) #5 TOP CONT

**SUPPORTING CMU** 

#### NOTES:

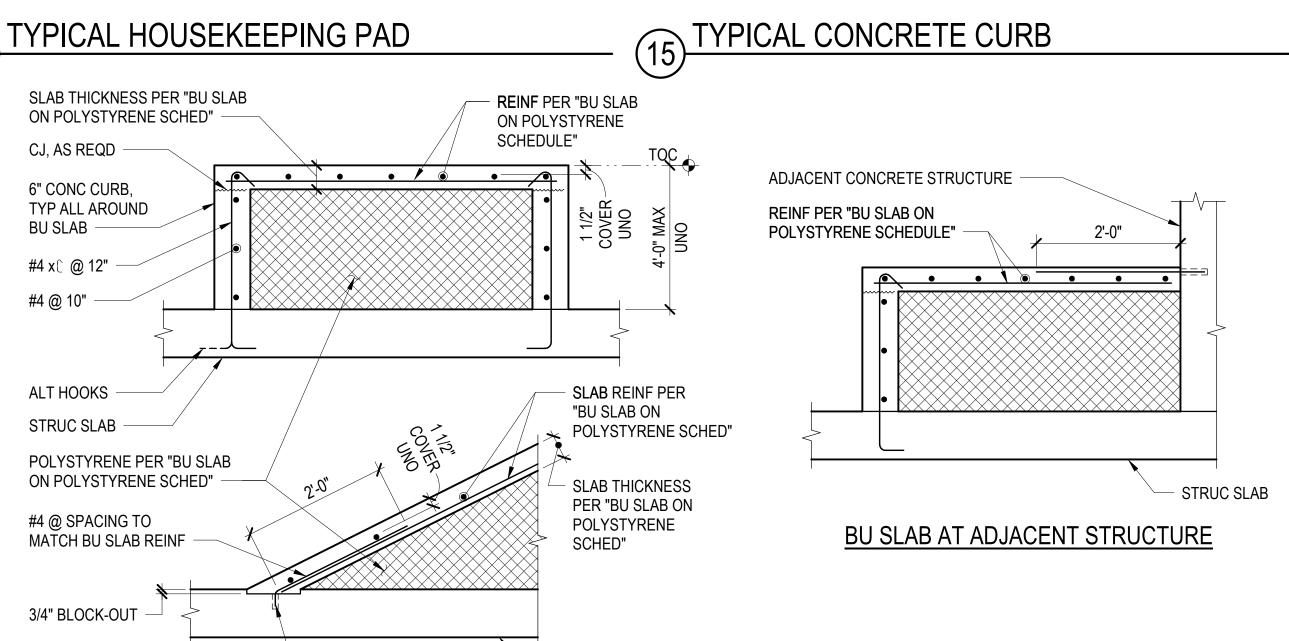
1. HOUSEKEEPING PADS ON SLAB-ON-GRADE AND COMPOSITE SLABS SIMILAR.

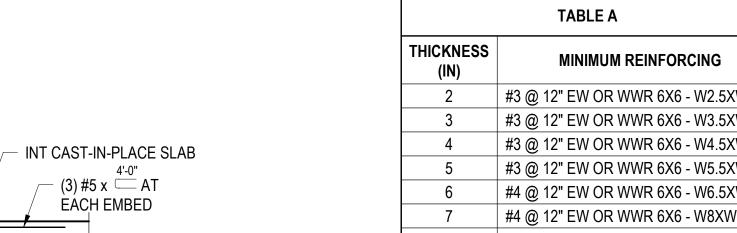
STL COL W/ CONC @ 12" BOT -

**ENCASEMENT** 

CONTROL JT

NOTES: 1. T = 6" MINIMUM OR 10" MAXIMUM. IF T > 10", SEE "TYPICAL HOUSEKEEPING PAD" DETAIL 2. SEE ARCHITECTURAL FOR T AND D DIMENSIONS AND CURB LOCATIONS. 3. CONCRETE CURBS ON SLAB-ON-GRADE AND FORMED SLABS ARE SIMILAR.





#### NOTES:

principal architect job no. 20052 date 11/18/2022 1 11/18/2022 IFC no. date

NOTES:

TYPICAL BUILT-UP SLAB ON POLYSTYRENE

BUILT-UP SLAB ON POLYSTYRENE SCHEDULE

#5 @ 12" EW 7.3 PSI @ 1%

1. RIGID CELLULAR POLYSTYRENE WITH MINIMUM COMPRESSIVE RESISTANCE

INDICATED AT 1% DEFORMATION CONFORMING TO ASTM D6817 OR ASTM C578

2. PROVIDE 3/4" DEEP SAWCUT CONTROL JOINTS AT MAXIMUM SPACING OF 30 TIMES

RE-ENTRANT CORNERS. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE

THE SLAB THICKNESS ON CENTER EACH WAY. PROVIDE CONTROL JOINTS AT ALL

POLYSTYRENE

NOTE 1

#4 @ 12" EW | 3.6 PSI @ 1% | TYP UNO

REMARKS

PROVIDE AT ALL AREAS

SUBJECT TO VEHICLE LOADS

SLAB

OR APPROVED EQUIVALENT.

ARCHITECT FOR REVIEW.

CONTACT THE ENGINEER FOR APPROVAL.

TYPE | THICKNESS | REINFORCEMENT | STRENGTH -

3. FOR MECHANICAL EQUIPMENT EXCEEDING 1000 POUNDS SUPPORTED ON THE SLAB, DRILL & EPOXY W/ 2" EMBED. CONTR STRUC SLAB 4. BUILT-UP SLAB AND CURB MINIMUM f'c = 4000 PSI. TO VERIFY PT TENDON OR MILD **BU RAMP** REINF ARE NOT CUT OR DAMAGED

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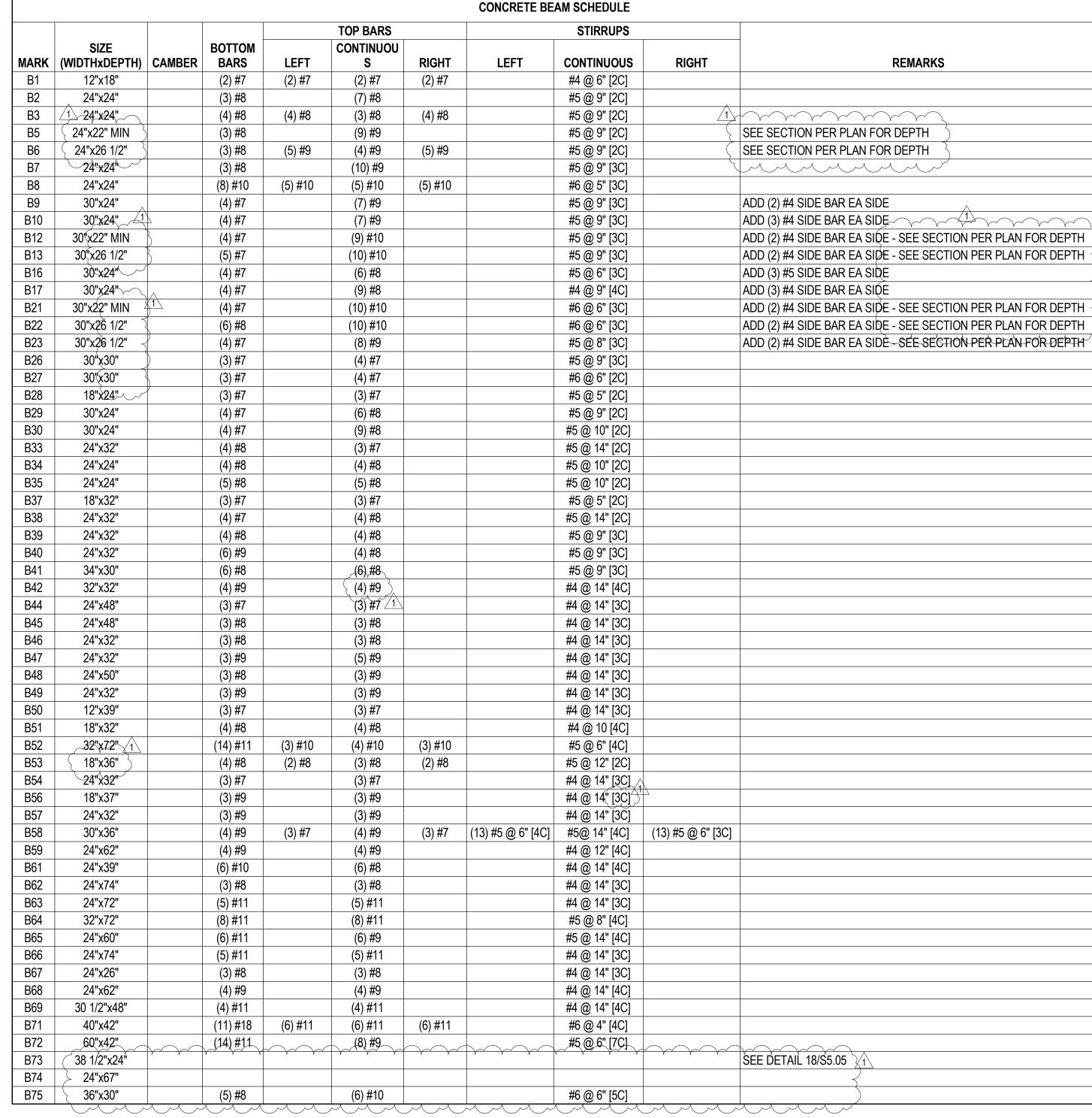
**TYPICAL** CONCRETE **DETAILS** 

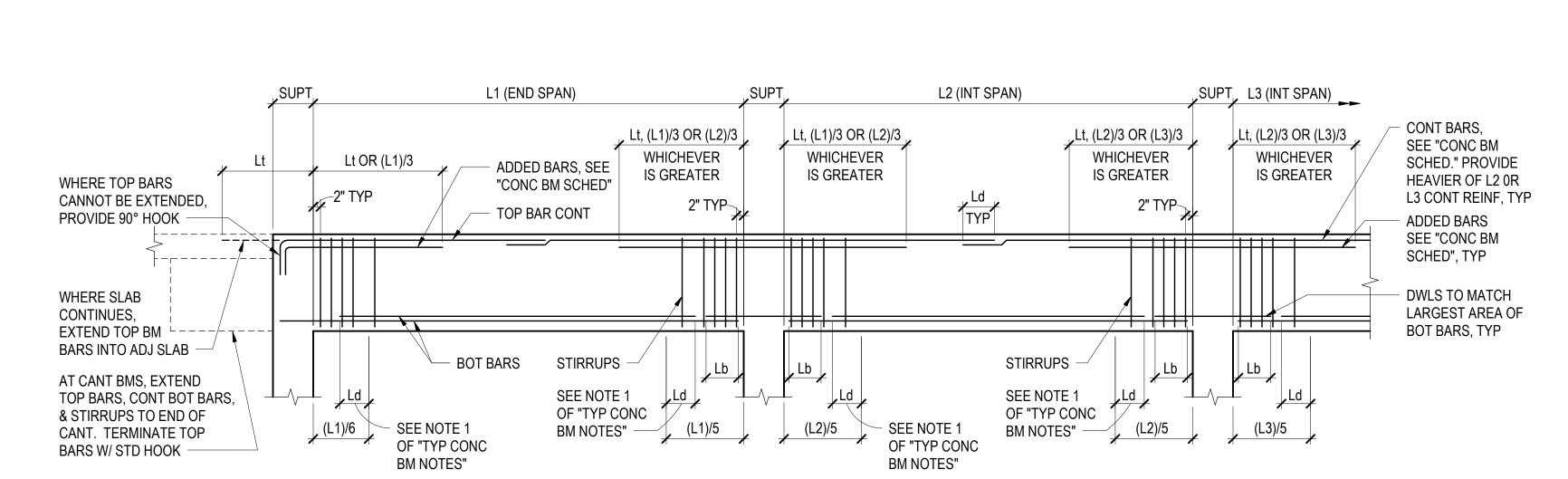
#### NOTES:

- 1. AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.
- 2. BEAM SCHEDULES DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING STEEL IN A SINGLE LAYER WHENEVER POSSIBLE. A SECOND LAYER MAY BE USED ONLY WHERE REQUIRED TO PROVIDE PROPER CLEARANCES BETWEEN BARS IN A LAYER AND WHERE REQUIRED IN ORDER TO PROPERLY CLEAR COLUMN VERTICALS AND SIMILAR REINFORCING.
- 3. EITHER 90 OR 180 DEGREE STANDARD HOOK BARS MAY BE USED FOR LONGITUDINAL
- 4. WHERE TOP BARS ARE INDICATED AS CONTINUOUS AND RUN OVER 60 FEET IN LENGTH, BARS MAY BE LAPPED Ld IN THE MIDDLE THIRD OF THE BEAM SPAN UNLESS NOTED OTHERWISE. CONTINUOUS TOP BARS SHALL NOT BE LAPPED IN THE SPAN ADJACENT TO A CANTILEVER, UNLESS NOTED OTHERWISE. WHERE BOTTOM BARS ARE SHOWN AS CONTINUOUS AND RUN IN EXCESS OF 60 FEET, A LAP SPLICE MAY BE USED EQUAL TO Lsb AND SHALL BE OUTSIDE THE MIDDLE THIRD OF THE BEAM SPAN. SIDE BAR SPLICES MAY BE MADE WHERE CONVENIENT.
- 5. LOCATE ALL CONSTRUCTION JOINTS WITHIN THE MIDDLE THIRD OF SPAN. JOINTS SHALL BE OFFSET AT A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS. SUBMIT LOCATION OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
- 6. ALL BARS IN SAME LAYER UNLESS NOTED OTHERWISE.

# TYPICAL CONCRETE BEAM NOTES

(18) TYPICAL CONCRETE EDGE BEAM





LEFT END OF BM

-*~---/*---------

^

PLAN OF BEAMS

LEFT END

**BM MARK** 

SEE "CONC

BM SCHED"

OF BM -

(2) SETS OF BM

BEAM CONSTRUCTION JOINT

TYPICAL CONCRETE UPTURNED BEAM

STIRRUPS AT 6"

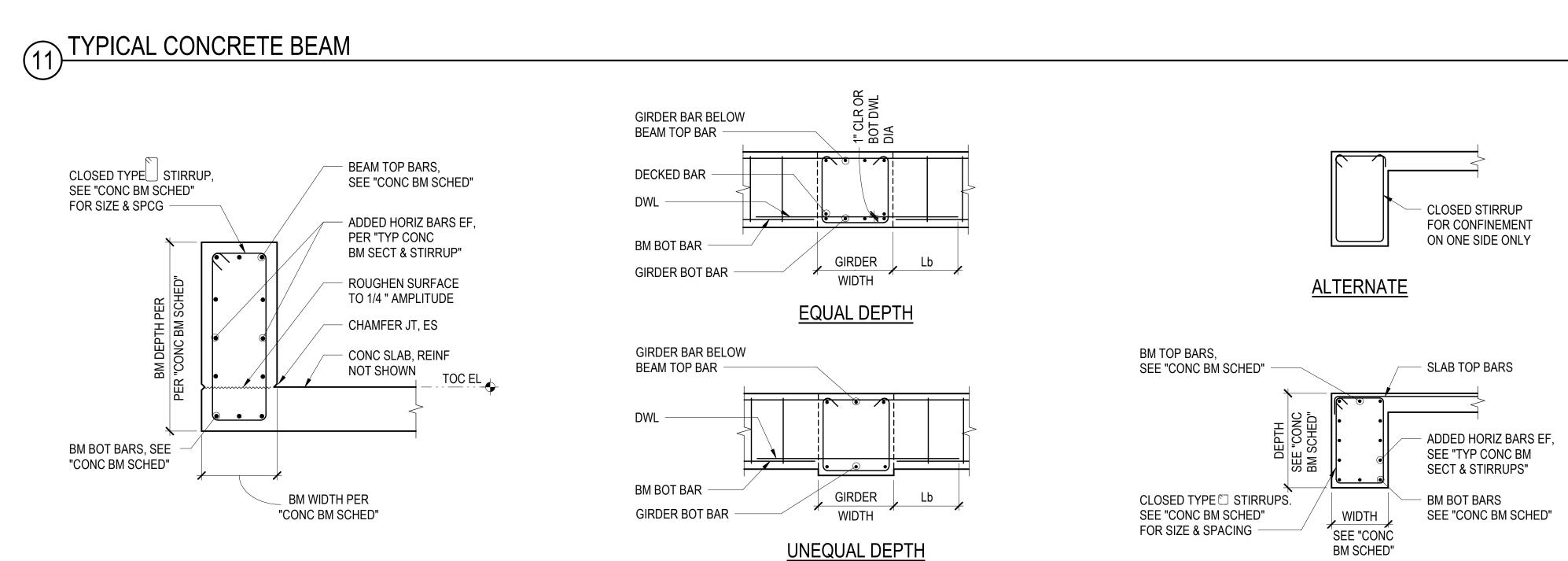
EXTEND ALL BM

BARS THRU JT

WIDTH OF BM

KEY, FULL

**BEAM REINFORCING ELEVATION** 



(17) TYP CONC BM AND GIRDER INTERSECTION

NOTES: 1. SEE "TYPICAL CONCRETE BEAM" DETAIL.

CONCRETE BEAM SCHEDULE

2. [] DENOTES TYPE OF REINFORCING CONFIGURATION. SEE "TYPICAL CONCRETE BEAM SECTION AND STIRRUPS" DETAIL FOR STIRRUP TYPE

WHEN DEPTH EXCEEDS 36", ADD #4 @ 9" MAX, EVENLY SPACE BARS BARS ON EA SIDE OF BEAM UNO \*\* CLR DISTANCE NOT LESS THAN 1" CLR DISTANCE NOT LESS THAN BAR DIA NOR 1" BM SCHED" **BEAM SECTION** OPEN STIRRUP TYPES CLOSED STIRRUP TYPES NOTES: 1. [] DENOTES TYPE OF STIRRUP REINFORCING CONFIGURATION. SEE "CONCRETE BEAM SCHEDULE." TYP CONC BEAM SECTION AND STIRRUPS Reserved for permit stamp

O **XUN** 

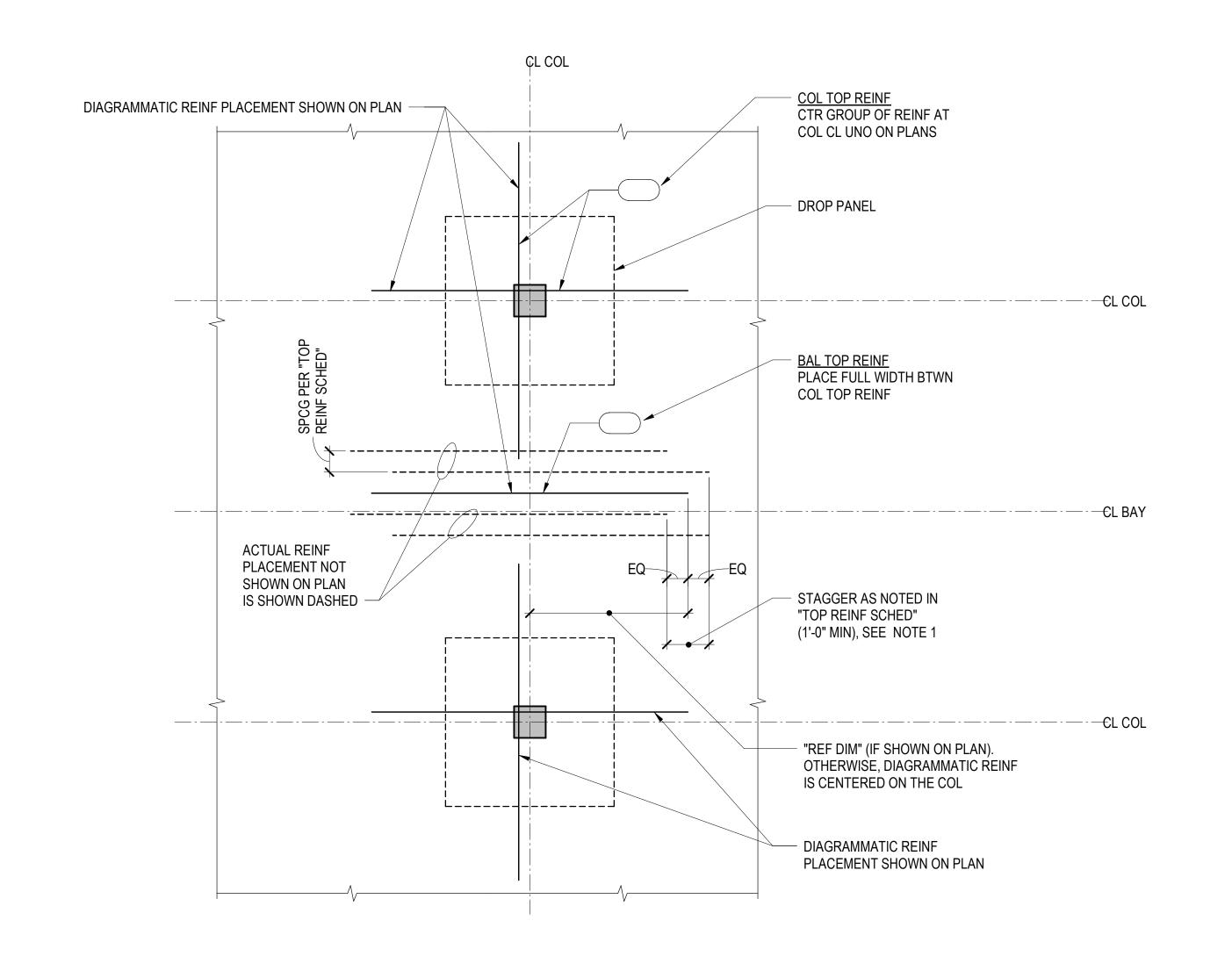
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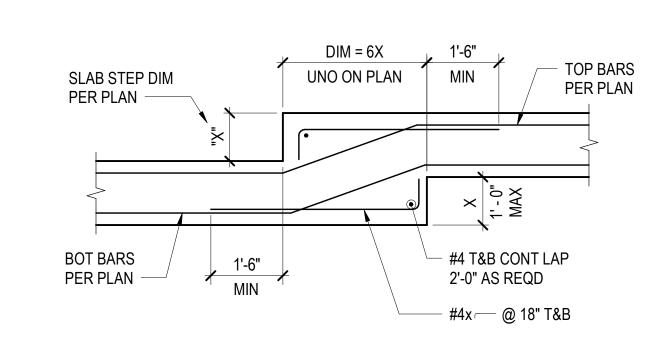
**TYPICAL CONCRETE BEAM DETAILS AND** SCHEDULE



NOTES:

1. STAGGERED CONDITION APPLIES TO ALL TOP BARS EXCEPT HOOKED BARS AT SLAB EDGES.

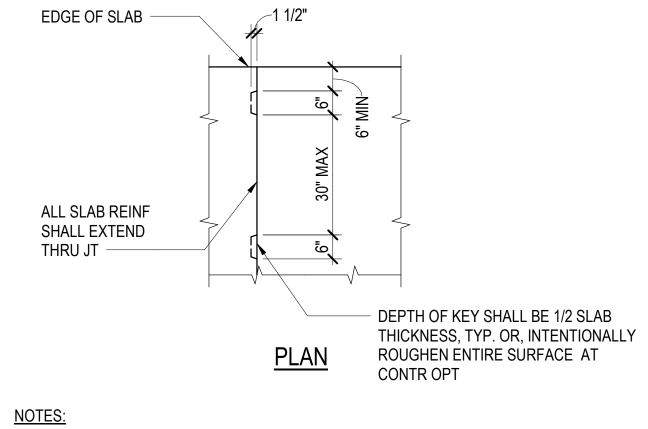
# 9 TYPICAL MILD SLAB TOP REINFORCING PLACEMENT



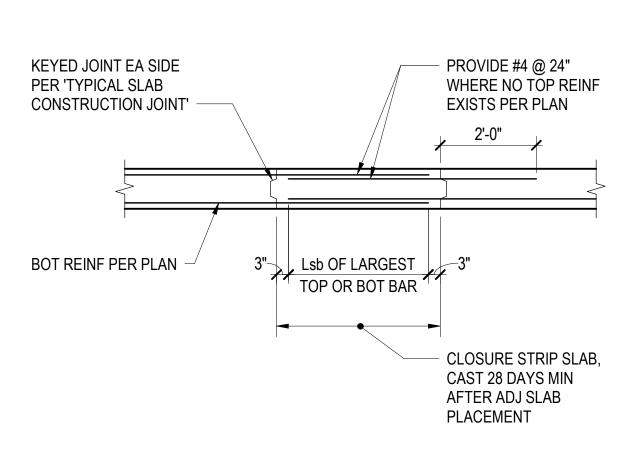
NOTES:

1. THIS DETAIL ONLY APPLIES TO MILD REINFORCED SLABS.

# TYPICAL MILD SLAB STEP REINFORCING

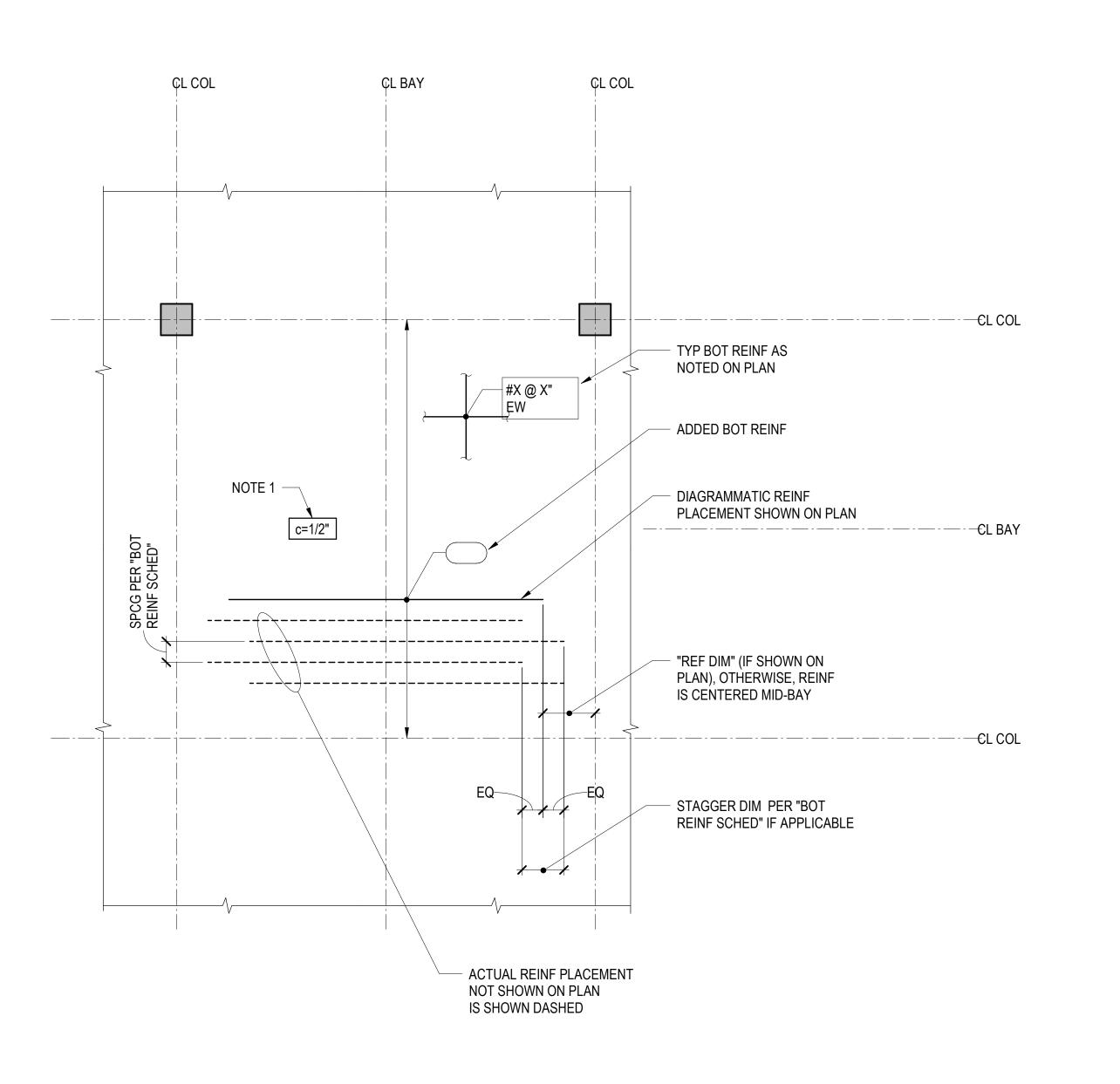


- 1. LOCATE ALL CONSTRUCTION JOINTS WITHIN THE MIDDLE THIRD OF THE SPAN. SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO FORMING.
- 2. PROVIDE #4x5'-0" @ 24" CENTERED ACROSS CONSTRUCTION JOINT AT LOCATIONS WHERE TOP SLAB REINFORCING IS NOT SPECIFIED PER PLAN.
- TYPICAL SLAB CONSTRUCTION JOINT



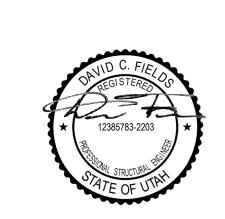
NOTES:

- 1. SHORE SLAB UNTIL CLOSURE STRIP REACHES 28 DAY DESIGN STRENGTH. 2. REINFORCING IN OPPOSITE DIRECTION IS PER PLANS.
- TYPICAL MILD SLAB CLOSURE STRIP



NOTES:

- 1. WHEN NO EXTENT LINES EXIST AT MILD SLAB CAMBER, A SINGLE HIGH POINT AT MID-BAY IS INDICATED. THE SURROUNDING SLAB SLOPES AWAY TOWARD THE ADJACENT COLUMNS OR WALLS.
- TYPICAL MILD SLAB BOTTOM REINFORCING PLACEMENT



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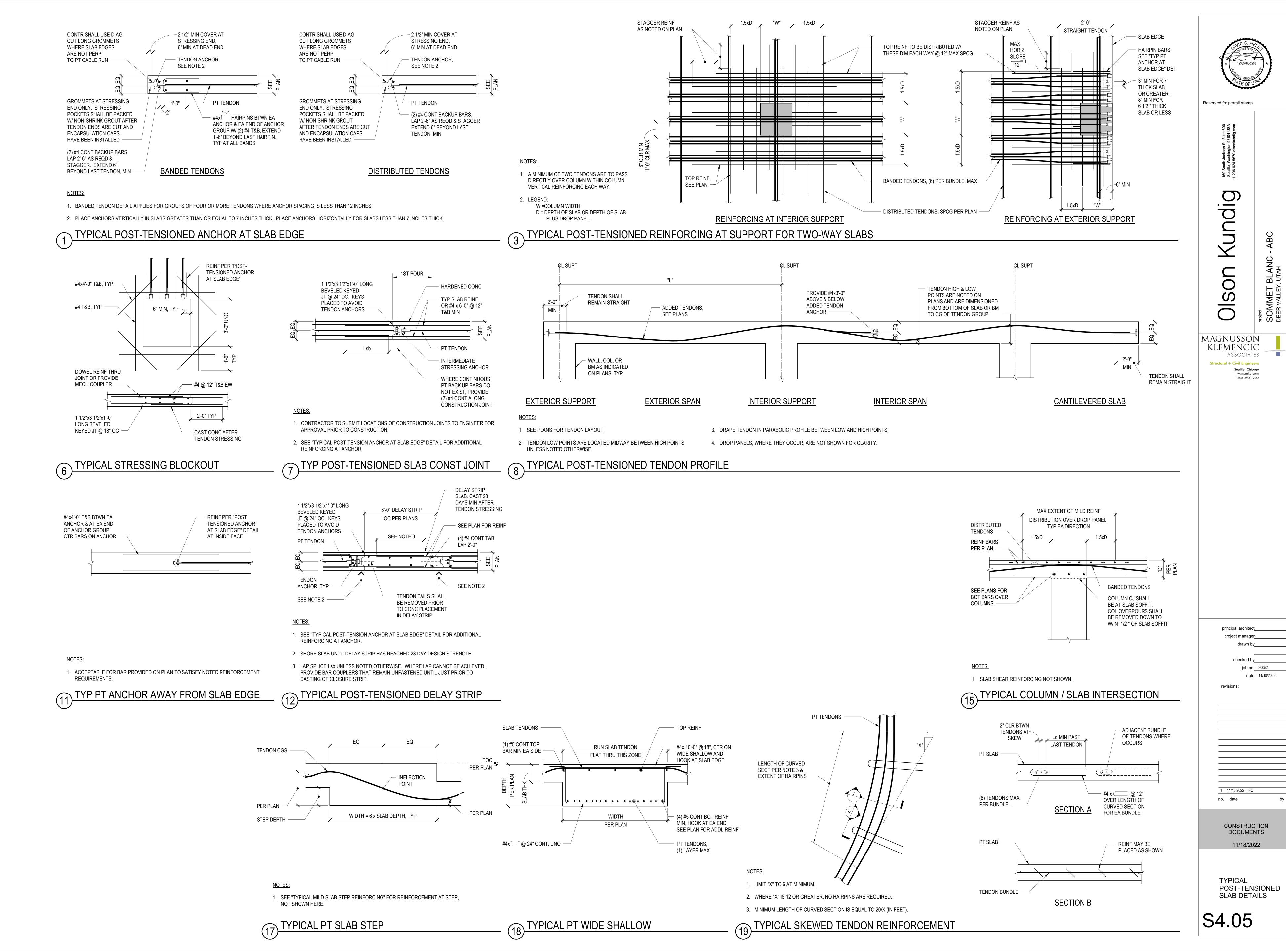
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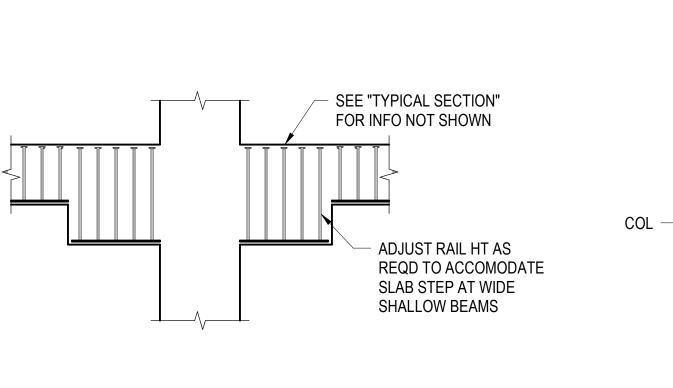
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TYPICAL MILD SLAB DETAILS





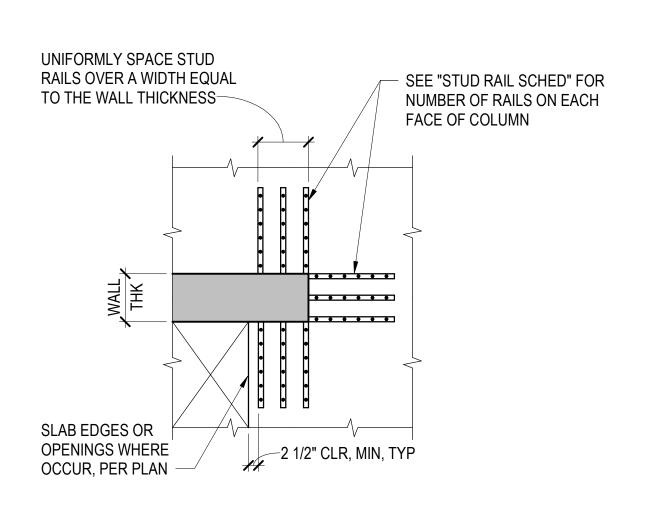
SEE "STUD RAIL SCHED" FOR INFO SEE NOTE 9 FROM CL OF LAST STUD 2" TO FACE OF COL BELOW

**SECTION AT WIDE SHALLOW BEAMS** 

**SECTION** 

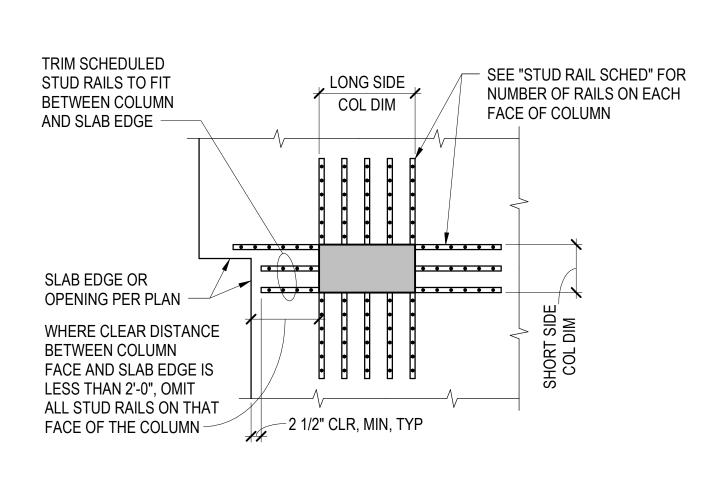
TYPICAL SLAB SHEAR

REINFORCEMENT AT WALLS



- 1. SEE PLANS FOR LOCATIONS WHERE SLAB SHEAR REINFORCING IS REQUIRED.
- 2. SLAB SHEAR REINFORCEMENT SHALL CONFORM TO ASTM A1044.
- 3. ALL STUD RAILS SHALL BE CLEARLY MARKED WITH BRIGHT PAINT TO INDICATE STUD RAIL TYPE.
- 4. COORDINATE PLACEMENT WITH POST-TENSIONED TENDONS AND ANCHORAGES. PROVIDE POSITIVE MEANS TO KEEP REINFORCEMENT IN PLACE DURING CONCRETE PLACEMENT.
- 5. NUMBER OF RAILS PER COLUMN SIDE IS PER "STUD RAIL SCHEDULE."
- 6. PLACE OUTER STUD RAILS FLUSH WITH CORNERS OF COLUMN UNLESS NOTED OTHERWISE. EQUALLY SPACE RAILS ON EACH FACE OF COLUMN.
- 7. SEE PLANS FOR REINFORCING THROUGH COLUMNS, TYPICAL.
- 8. STUD RAIL CLEAR COVER MATCHES ADJACENT SLAB REINFORCING, TOP AND BOTTOM, REFER TO "GENERAL NOTES."
- 9. WHERE TOP OF SLAB SLOPES (REFER TO PLANS), DETERMINE STUD HEIGHT BASED ON MINIMUM SLAB THICKNESS OVER THE LENGTH OF THE RAIL. ALL STUDS ON A SINGLE RAIL SHALL HAVE THE SAME HEIGHT.
- 10. WHERE SLAB EDGE IS NOT FLUSH WITH COLUMN FACE, SEE "TYPICAL TRIMMED STUD RAIL" DETAIL.
- 11. AT BALCONIES OR SLAB DEPRESSIONS, SEE "TYPICAL SLAB STEP STUD RAIL LAYOUT" DETAIL.

#### (8) TYPICAL STUD RAIL NOTES 9 STUD RAIL SCHEDULE



LONG SIDE

COL DIM

STUD RAILS

FOR FULL

**DEPTH SLAB** 

BALCONY OR

DEPRESSED

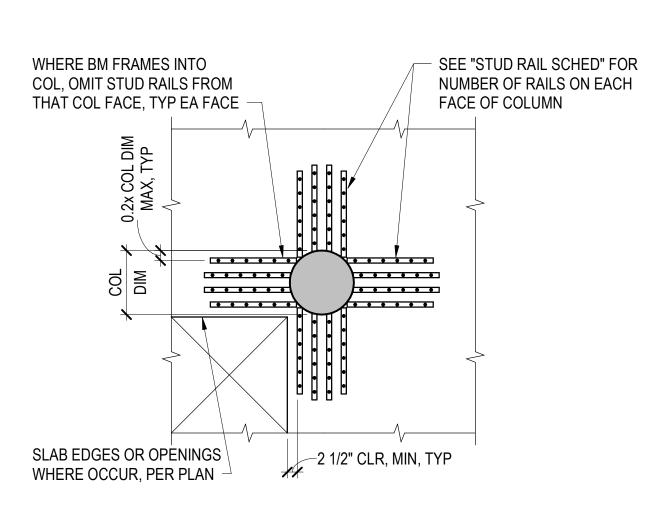
WHEN ANY PORTION OF A STUD TAIL EXTENDS INTO A BALCONY,

DEPRESSED SLAB, OR OVER A

SLAB SOFFIT STEP, USE STUD

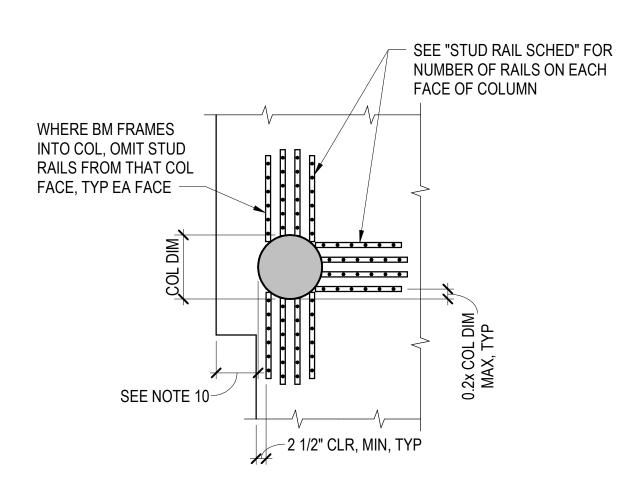
RAIL W/ STUDS FOR LESSER

SLAB THICKNESS



TYPICAL SLAB SHEAR REINFORCEMENT

AT ROUND INTERIOR COLUMN



LONG SIDE | SHORT SIDE |

5 3

R3

R5

R10

R11

R12

R14

R17

1. SEE TYPICAL SLAB SHEAR REINFORCEMENT DETAILS.

NUMBER OF | NUMBER OF | DIAMETER

STUD RAIL SCHEDULE

**SPACING** 

1/2

1/2

1/2

1/2

1/2

1/2

1/2 3

~R19~~~6~~~4~~~172~~~3~~~17~~~(8) #5x10'-0"\ (8) #5x10'-0"\

POST-TENSIONED SLAB

(5) #5x7'-6" (5) #5x7'-6"

(7) #5x10'-0" | (3) #5x10'-0"

7) #5x10'-0" | (6) #5x10'-0"

7) #5x10'-0" | (6) #5x10'-0"

7) #5x10'-0" | (5) #5x10'-0"

(5) #5x7'-6" (5) #5x7'-6"

(7) #5x10'-0" | (7) #5x10'-0"

DIMENSION

(3) #5x7'-6"

(4) #5x7'-6"

(4) #5x7'-6"

(3) #5x7'-6"

(5) #5x7'-6"

(3) #5x7'-6"

(6)#5x10'-0"

**REMARKS** 

DIMENSION

(4) #5x7'-6"

(4) #5x7'-6"

(4) #5x7'-6"

(4) #5x7'-6"

(5) #5x7'-6"

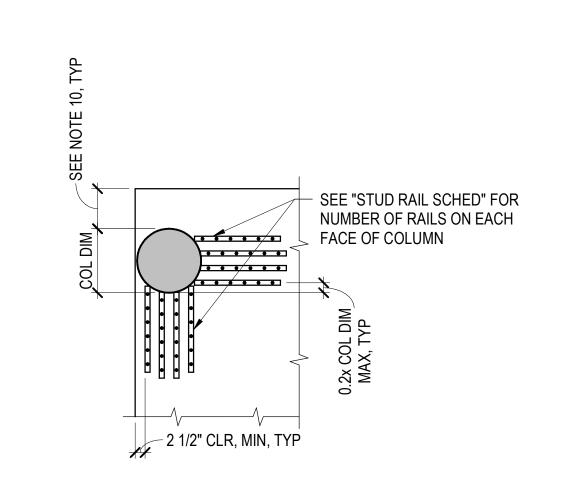
(4) #5x7'-6"

(7)#5x10'-0"

17

11

19

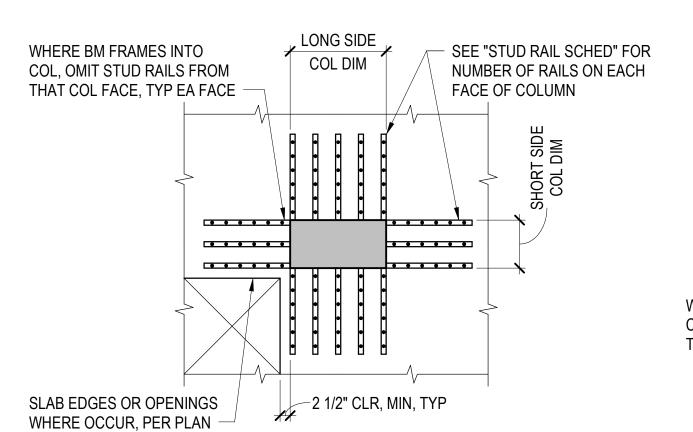


(12) TYPICAL TRIMMED STUD RAIL

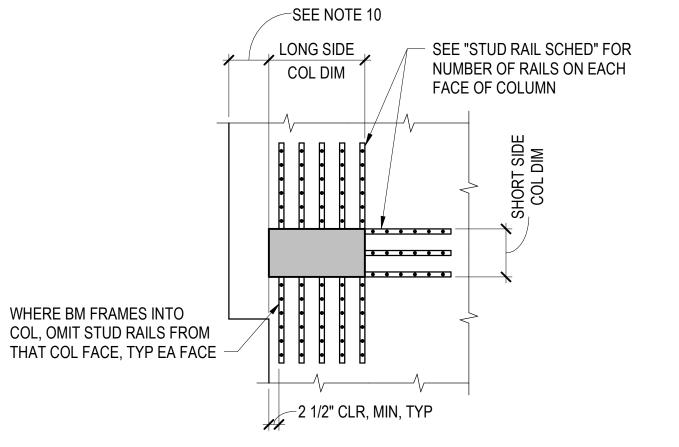
• •/••

STUD RAILS FOR

FULL DEPTH SLAB



TYPICAL SLAB SHEAR REINFORCEMENT (14) AT ROUND EDGE COLUMN



SHORT SIDE SEE "STUD RAIL SCHED" FOR COL DIM NUMBER OF RAILS ON EACH FACE OF COLUMN • • • • • • • • • • •••• \_\_\_\_\_\_\_

TYPICAL SLAB SHEAR REINFORCEMENT

(15) AT ROUND CORNER COLUMN

TYPICAL SLAB SHEAR REINFORCEMENT

TYPICAL SLAB SHEAR REINFORCEMENT AT RECTANGULAR CORNER COLUMN

2 1/2" CLR, MIN, TYP

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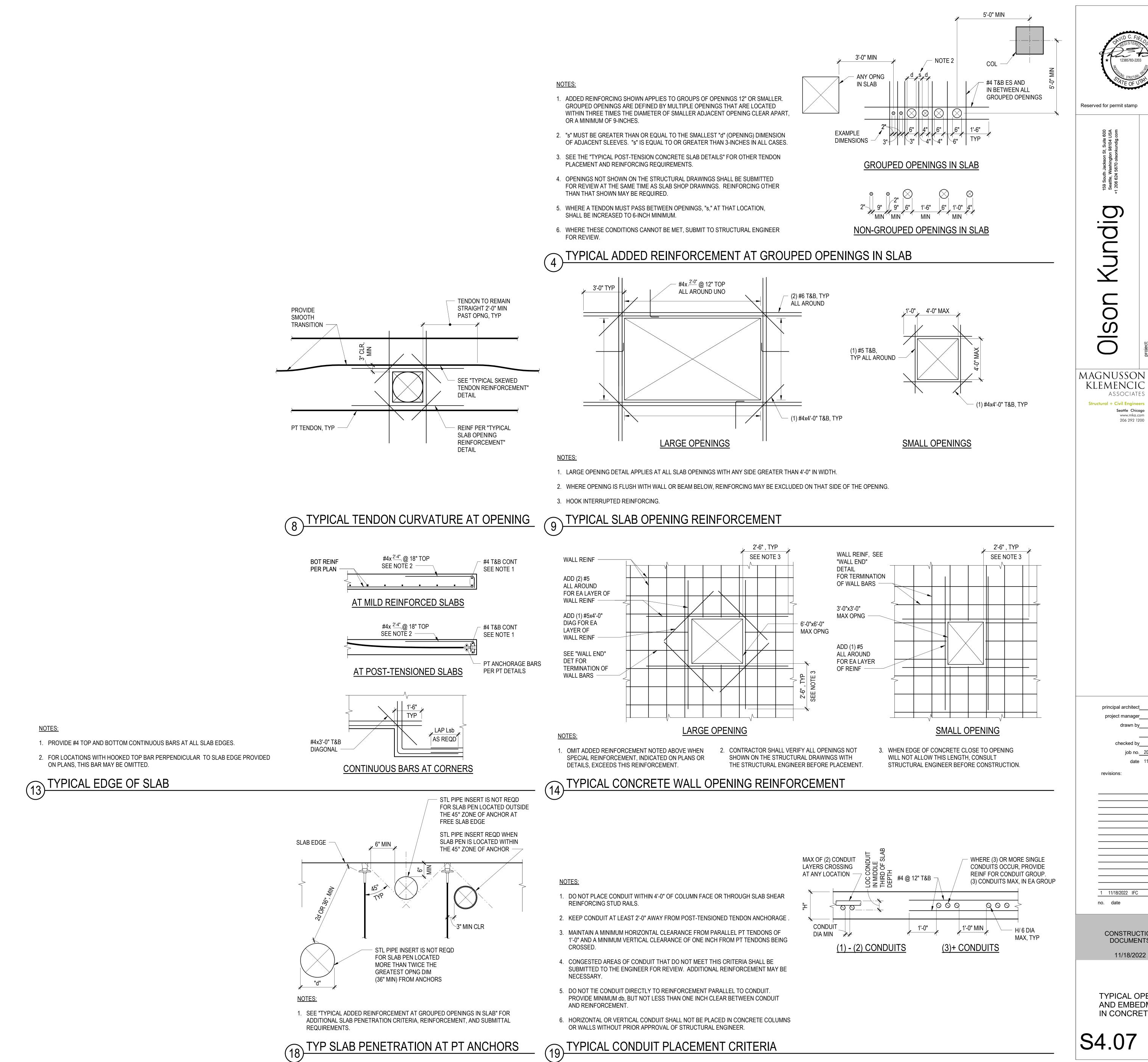
TYPICAL STUD RAIL **DETAILS AND** SCHEDULE

S4.06

(17) TYPICAL SLAB STEP STUD RAIL LAYOUT

TYPICAL SLAB SHEAR REINFORCEMENT AT RECTANGULAR INTERIOR COLUMN

(19) RECTANGULAR EDGE COLUMN



S4.07

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TYPICAL OPENINGS

AND EMBEDMENTS

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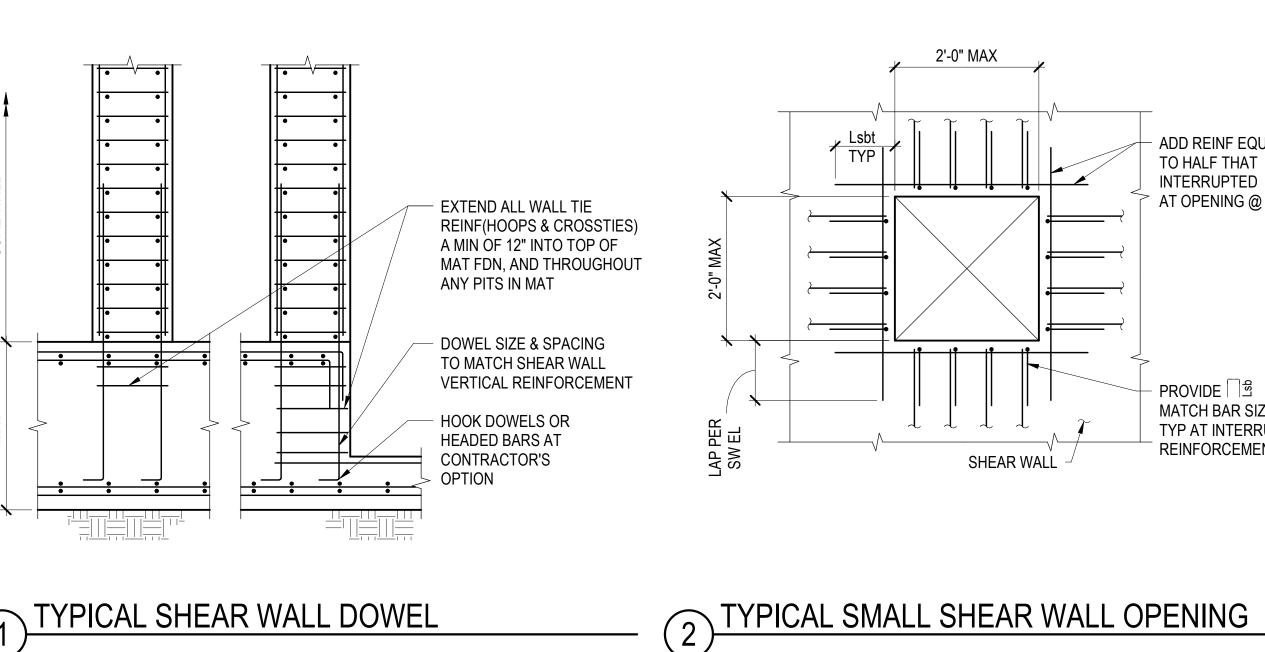
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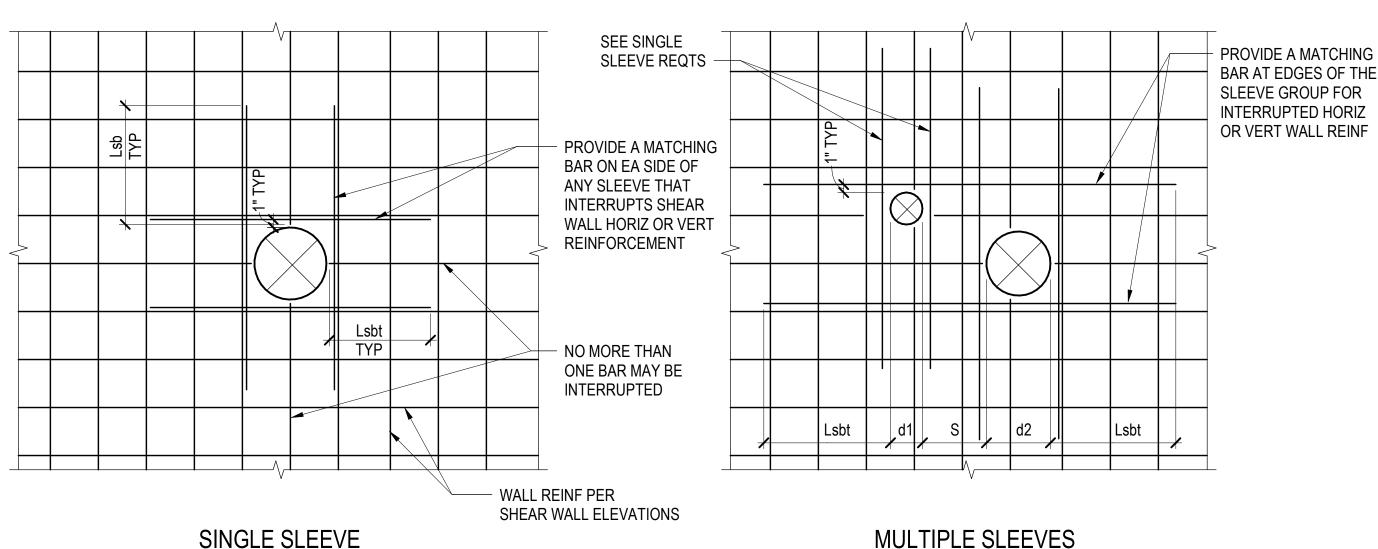
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date 11/18/2022

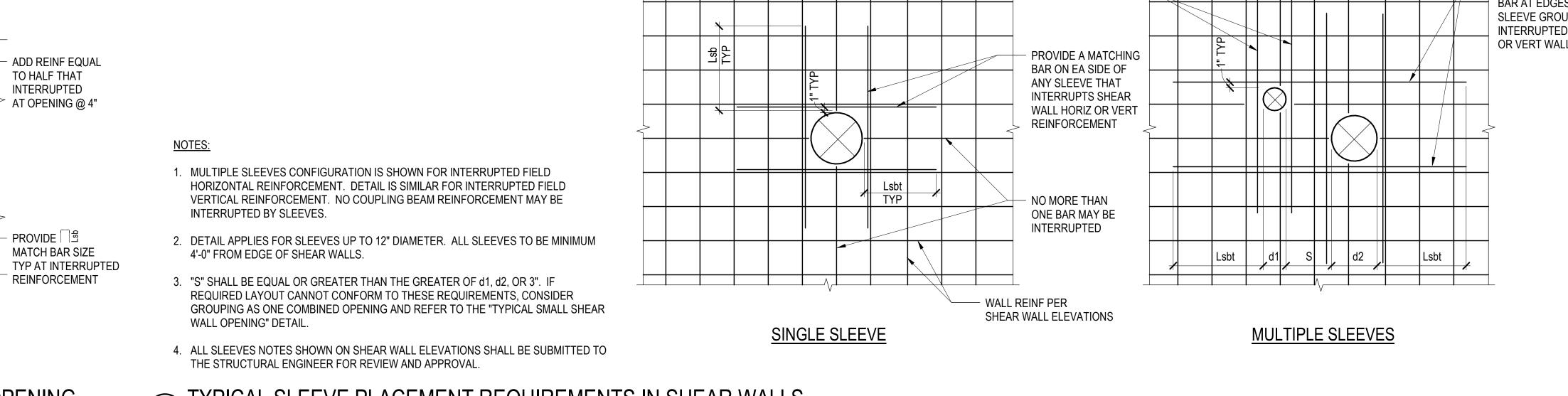
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TYPICAL SLEEVE PLACEMENT REQUIREMENTS IN SHEAR WALLS



TOP OF WALL (BOT OF WALL AT SIM) TO MATCH WALL VERT REINF SIZE & SPCG, NOT TO EXCEED #6 BAR SIZE VERT WALL REINF PER EL WALL TOP AND BOTTOM

NOTES:

1. SEE "SHEAR WALL SECTIONS" FOR FURTHER REQUIREMENTS.

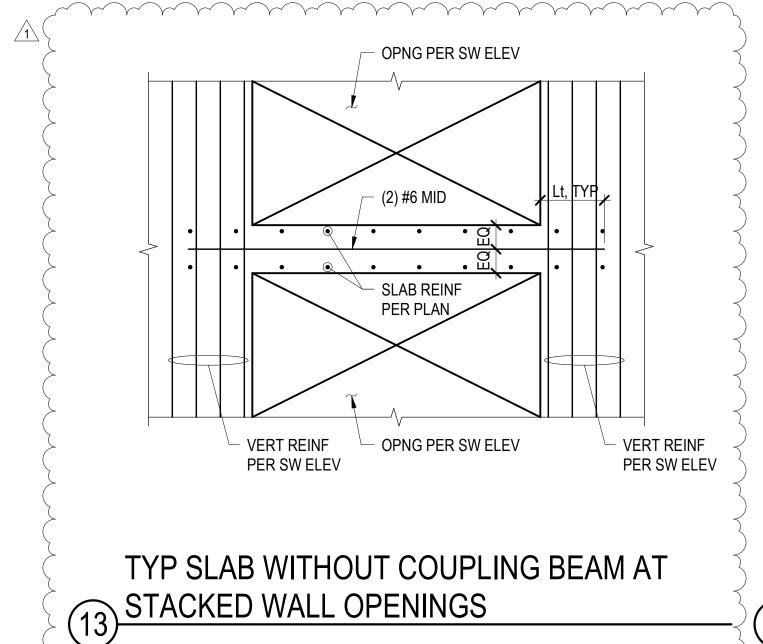
SHEAR WALL EXTEND REINF TO **EDGE OF OPENING** U-BARS TO MATCH ADJ VERT BARS SIZE & SPACING VERT REINF PER SW ELEVATIONS - COUPLING BEAM EXTENT, REINFORCE PER COUPLING BEAM DETAIL

#4 TIE TO MATCH VEF SPACING - SLAB WHERE DWL TO MATCH **OCCURS** VERT REINF SIZE & SPCG ABOVE, EXTD TO LEVEL BELOW HOOK VERT AT OFFSET > 6"

NOTES:

- 1. SEE THE SHEAR WALL REINFORCEMENT NOTES FOR LAP LENGTH.
- 2. SEE PLAN AND WALL ELEVATIONS FOR ADDITIONAL INFORMATION.

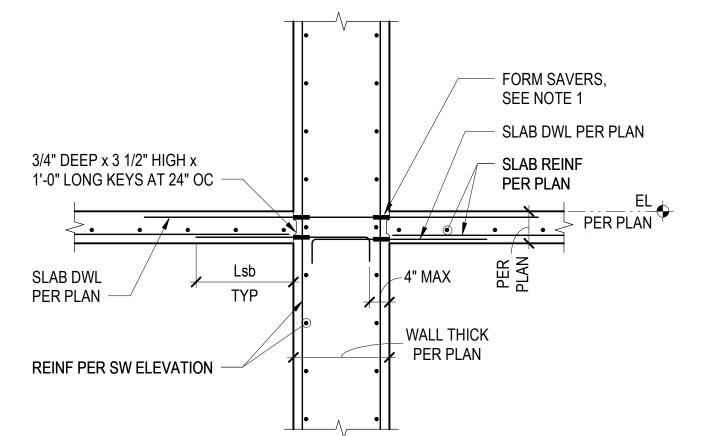
A TYP SHEAR WALL EDGE REINFORCEMENT 8 TYPICAL CONC WALL OPENING TRANSITION



2'-0" MIN, SEE NOTE 1 SEE NOTE 1 - SLAB REINF PER PLAN REINF PER WALL ELEVATION -\_ WALL THICK PER PLAN NOTES:

WHERE SHEAR WALL fc EXCEEDS SLAB fc, PROVIDE SLAB CONCRETE WITH fc TO MATCH AT ALL SHEAR WALL TO SLAB JOINTS. THE REMAINING FLOOR SLAB CONCRETE SHALL BE PLACED WHILE THE HIGHER STRENGTH CONCRETE IS STILL PLASTIC AND THE REGION SHALL BE ADEQUATELY VIBRATED TO PROVIDE PROPER INTEGRATION.

TYP SHEAR WALL TO CONTINUOUS SLAB



OFFSET ≤ 6"

SLAB WHERE

HOOK VERT AT

OCCURS

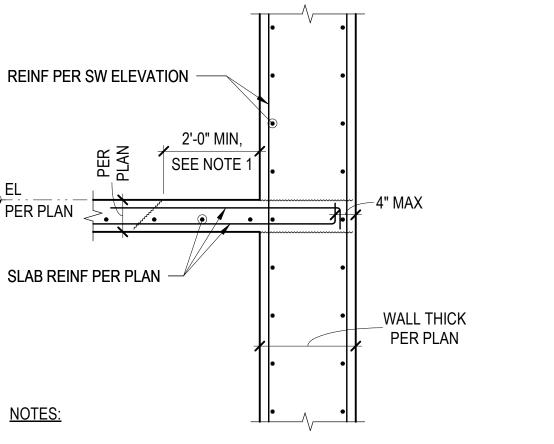
DOWEL TO MATCH

VERT REINF SIZE &

SPCG ABOVE

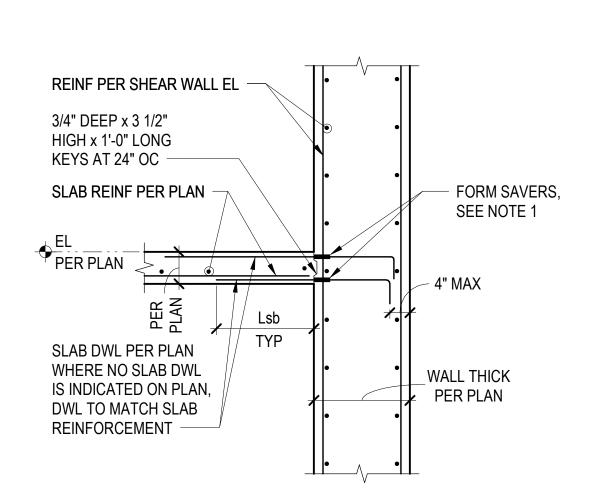
NOTES:

- 1. FORM SAVERS TO BE AT EACH END OF STRAIGHT BAR, OR AT CONTRACTOR'S OPTION, ACCEPTABLE TO PROVIDE HOOKS EACH SIDE IN LIEU OF STRAIGHT BAR.
- TYP JUMP-FORMED SW TO CONT SLAB



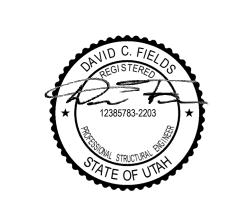
1. WHERE SHEAR WALL fc EXCEEDS SLAB fc, PROVIDE SLAB CONCRETE WITH fc TO MATCH AT ALL SHEAR WALL TO SLAB JOINTS. THE REMAINING FLOOR SLAB CONCRETE SHALL BE PLACED WHILE THE HIGHER STRENGTH CONCRETE IS STILL PLASTIC AND THE REGION SHALL BE ADEQUATELY VIBRATED TO PROVIDE

PROPER INTEGRATION.



NOTES:

- 1. FORM SAVERS SHALL HAVE Ld STRAIGHT EMBED OR HOOK WITH Ldh EMBED WHERE WALL THICKNESS WILL NOT ALLOW FULL Ld DISTANCE.
- TYPICAL SHEAR WALL TO SLAB AT OPENING 20 TYP JUMP-FORMED SW TO SLAB AT OPNG



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TYPICAL SHEAR WALL DETAILS

EMBED TABLE 1: UNCONFINED CONDITION / GRADE 60									
		EME	BED LENGTH	l (IN)					
BAR SIZE	N	NORMAL WEIGHT CONCRETE, f'c (PSI)							
	6,000	7,000	8,000	9,000	≥ 10,000				
#5	19	18	17	16	15				
#6	23	21	20	19	18				
#7	37	34	32	30	28				
#8	48	44	41	39	37				
#9	61	56	53	50	47				
#10	77	71	66	63	59				
#11	94	87	82	77	73				

1 EMBED TABLE 1

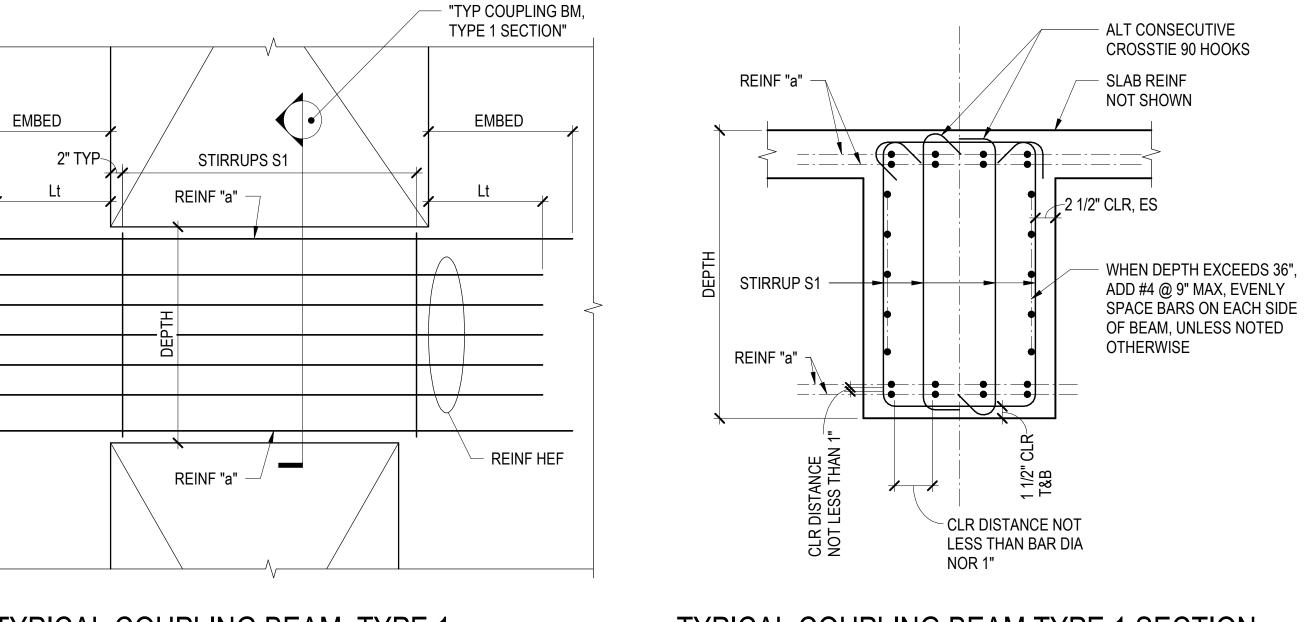
EM	IBED TABLI	E 2: CONFINI	ED CONDITION	ON / GRADE	60				
		EME	BED LENGTH	I (IN)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c (PSI)								
	6,000	7,000	8,000	9,000	≥ 10,000				
#5	19	18	17	16	15				
#6	23	21	20	19	18				
#7	34	31	29	27	26				
#8	42	39	37	35	33				
#9	54	50	47	44	42				
#10	68	63	59	56	53				
#11	84	77	72	68	65				

EMBED TABLE 2

#### NOTES:

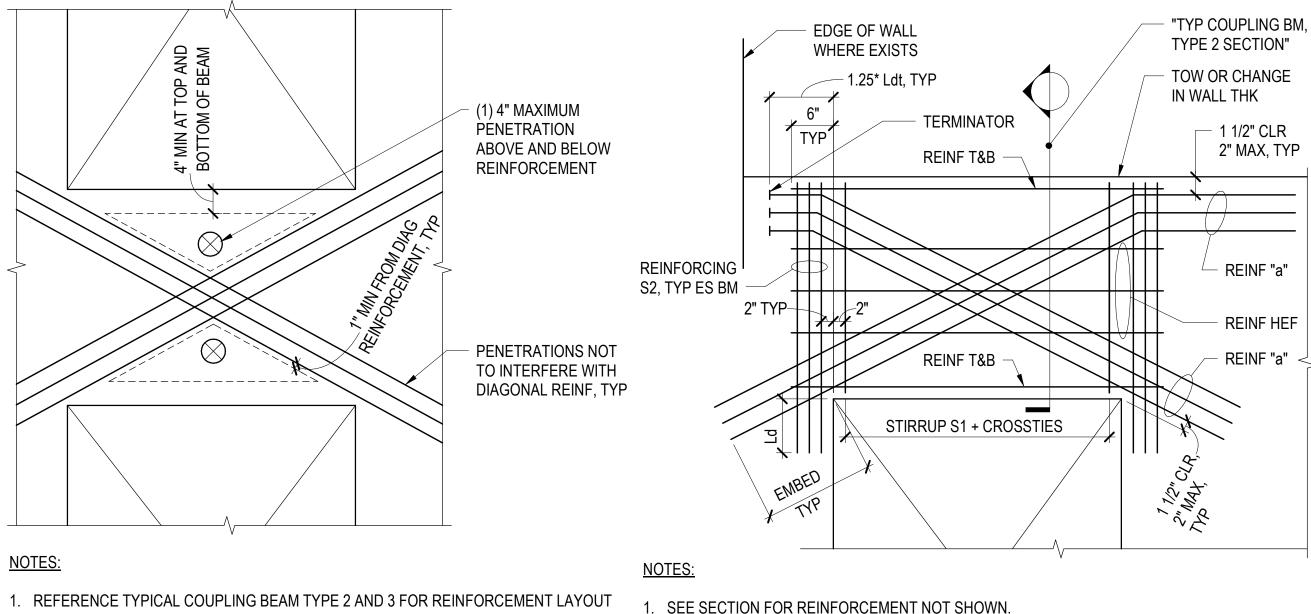
- 1. CONCRETE STRENGTH OF ALL COUPLING BEAMS SHALL BE THE SAME AS THAT OF ADJACENT WALLS AT THAT LEVEL.
- 2. IF EMBED LENGTH OF BAR "a" CANNOT BE ACHIEVED DUE TO EDGE OF CORE WALL, PROVIDE 1.25\*Ldt LENGTH BEYOND EDGE OF OPENING AND USE A HEADED BAR.
- 3. EMBED = LENGTH FROM "EMBED TABLE 1" OR "EMBED TABLE 2" AS SPECIFIED IN THE "COUPLING BEAM LONGITUDINAL REINFORCEMENT SCHEDULE."

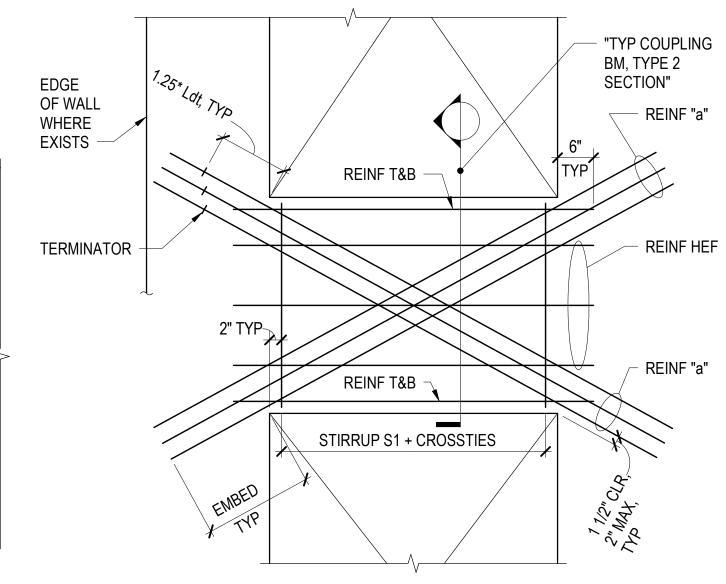
GENERAL NOTES FOR COUPLING BEAMS

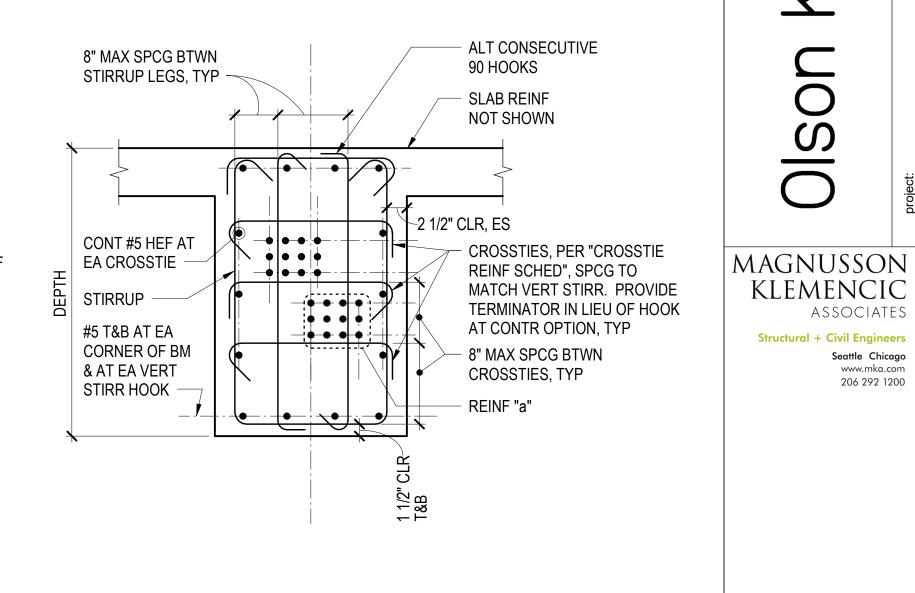


# TYPICAL COUPLING BEAM, TYPE 1

TYPICAL COUPLING BEAM, TYPE 1 SECTION







TYPICAL COUPLING BEAM PENETRATIONS, 7 TYPE 2 & 3

# 8 TYPICAL COUPLING BEAM, TYPE 3

# 9 TYPICAL COUPLING BEAM, TYPE 2

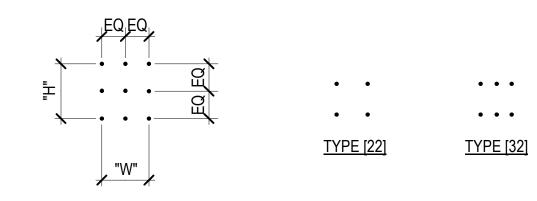
1. SEE SECTION FOR REINFORCEMENT NOT SHOWN

(10) TYPICAL COUPLING BEAM, TYPE 2 SECTION

<b>MAX BEAM</b>	CROSS	STIES
DEPTH (IN)	f'c=6 KSI	f'c=8 KSI
26"	(3) #5	(3) #5
100"	(12) #5	(12) #5
	(13) #5	(13) #5
120"	(18) #5	(15) #5

COUPLING BEAM LONGITUDINAL REINFORCEMENT SCHEDULE										
MARK	TYPE	CONFIGURATION DIM (HxW) (IN)	REINF "a"	REINFORCEMENT S2	EMBED TABLE	REMARKS				
1	1		(3) #8		TABLE 1					
2	3	4x6	(6) #9 [32]	(6) #5 [4]	TABLE 1					
3	3	4x6	(6) #8 [32]	(5) #5 [3]	TABLE 1					

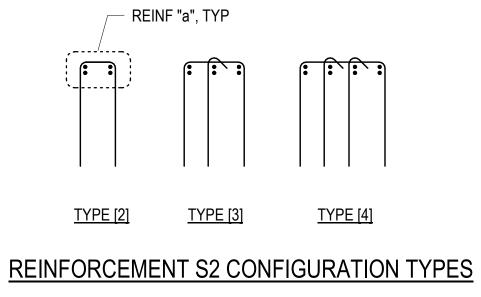
COUPLING BEAM VERTICAL REINFORCEMENT SCHEDULE								
MARK	STIRRUPS S1	REMARKS						
Α	#5 @ 4" [3]							
В	#5 @ 4" [4]							

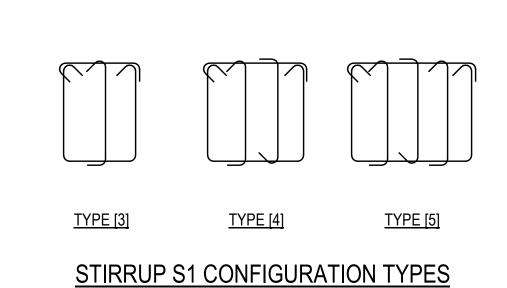


#### REINFORCEMENT "a" CONFIGURATION TYPES

- 1. DEPTH OF COUPLING BEAMS PER "SHEAR WALL ELEVATIONS." COUPLING BEAM WIDTH MATCHES ADJACENT SHEAR WALLS.
- 2. ALTERNATE CONSECUTIVE CROSSTIES END FOR END.
- 3. LONGITUDINAL REINFORCEMENT SHALL BE SPECIAL DUCTILE QUALITY. SEE "GENERAL NOTES" FOR CRITERIA.
- 4. REINFORCEMENT CALLOUT NOMENCLATURE IS AS FOLLOWS:

REINFORCEMENT QUANTITY REINFORCEMENT SIZE REINFORCEMENT SPACING REINFORCEMENT TYPE OR f f CONFIGURATION (3)#9 @ 4" [2]





COUPLING BEAM REINFORCEMENT SCHEDULE

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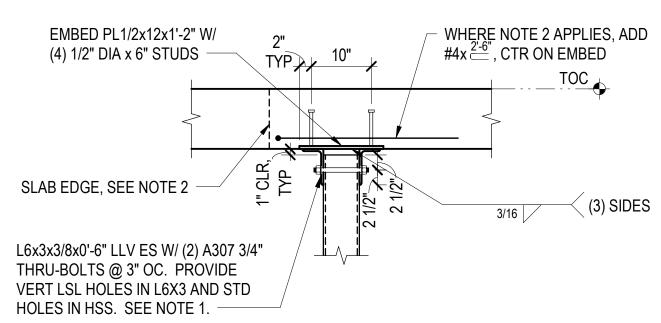
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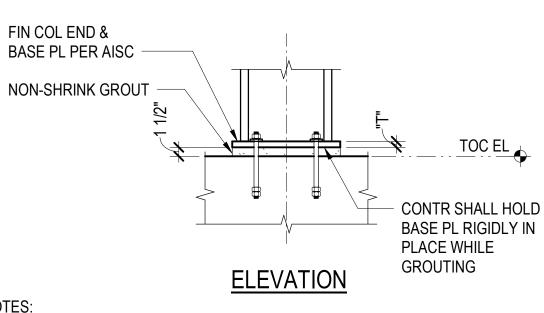
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TYPICAL COUPLING BEAM DETAILS AND SCHEDULES



- 2. PROVIDE U-BAR REINFORCEMENT PERPENDICULAR TO SLAB EDGE WHERE EMBED IS LOCATED 6" OR LESS FROM ADJACENT OPENING OR SLAB EDGE.



- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL TABLE 14-2", UNLESS NOTED OTHERWISE.
- 3. ANCHOR ROD GAGE SHALL BE AS FOLLOWS: W10: 5 INCHES W12: 6 INCHES

W14: 8 INCHES

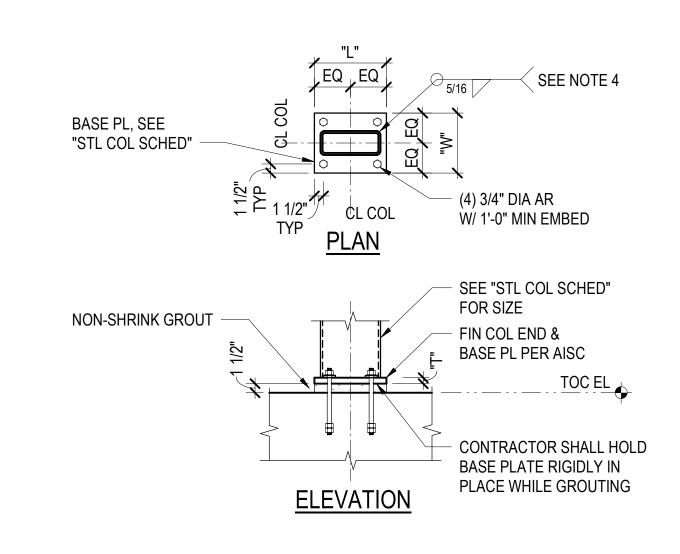
CONTRACTOR TO COORDINATE ANCHOR ROD GAGE WITH CONCRETE REINFORCING.

TYPICAL COLUMN BASE PLATE, TYPE 1

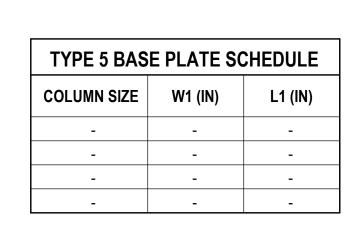
#### 2" DIA MAX GROUT HOLE AT CONTR'S OPT (4) 3/4" DIA AR 5/16 W/ 1'-0" MIN EMBED -, GAGE SEE SEE "STL COL NOTE 3 SCHED" FOR SIZE BASE PL, SEE "STL COL SCHED" <u>PLAN</u>

#### NOTES:

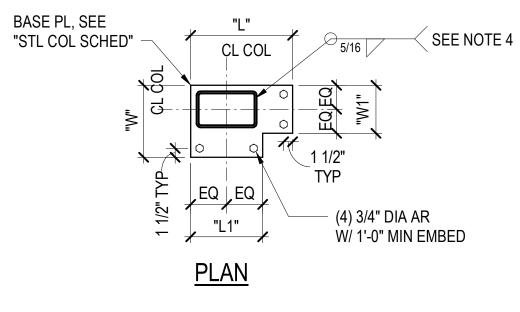
- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE
- 3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
- 4. WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.

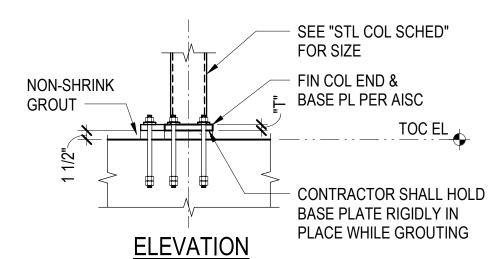


# TYPICAL COLUMN BASE PLATE, TYPE 4

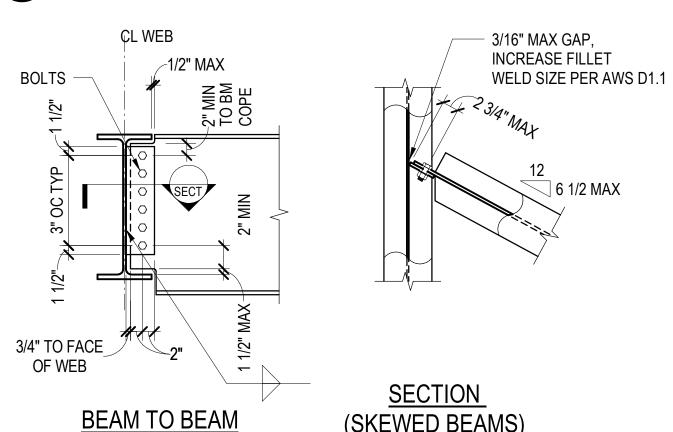


- TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND WASHER DIAMETER SHALL BE SIZED PER "AISC MANUAL-TABLE 14-2" UNLESS NOTED OTHERWISE
- 3. DIMENSION "L" IS PARALLEL TO WIDE FACE OF HSS UNLESS NOTED OTHERWISE.
- 4. WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.

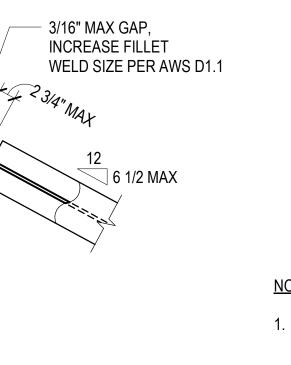




# TYPICAL COLUMN BASE PLATE, TYPE 5



# (SKEWED BEAMS)



#### BEAM TO COLUMN FLANGE BEAM TO HSS OR PIPE COLUMN

- BOLTS

AT TOP OF COL,

SEE NOTE 2

FIN COL END &

SLAB/BEAM

TYP AR TO

EMBED PL / 1/4 /

FIN COL END & EMBED

PL TO BEAR PER AISC

TO EMBED PL

BASE PL PER AISC

NON-SHRINK GROUT

(4) 3/4"ø AR; EXTEND

THROUGH CONCRETE

- 1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION
- 2. AT TOP OF HSS OR PIPE COLUMN, PROVIDE 1/2 INCH CAP PLATE WITH 5/16 INCH FILLET WELD ALL AROUND. IF BEAM IS SHOWN RUNNING OVER TOP OF COLUMN ON PLAN, SEE "TYPICAL BASE PLATE, TYPE 6" DETAIL.

CL COL

**CONNECTION AT HSS COL** 

ABOVE WITH WF COL BELOW

## TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION

BASE PL "T1"x"L1"x"W1"

INFO NOT SHOWN

GROUTING.

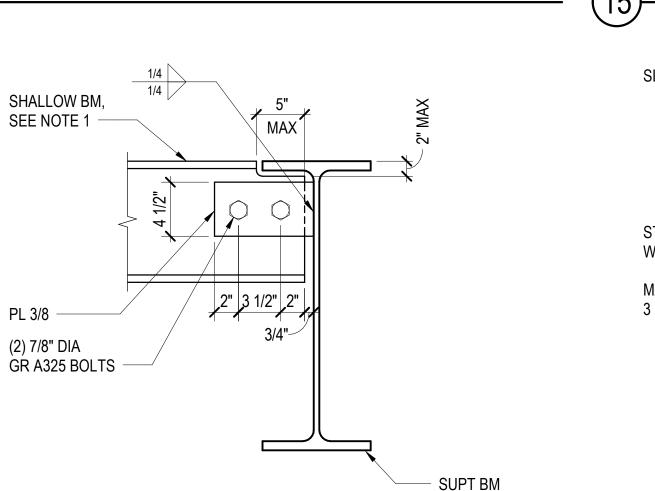
SEE TYPE 4 BASE PL FOR

CONTR SHALL HOLD BASE

PL RIGIDLY IN PLACE WHILE

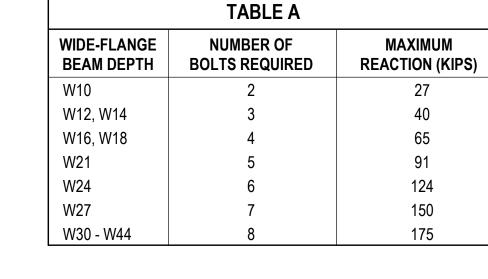
EMBED PL "T2"x"L2"x"W2"

**BOLTS** 



#### NOTES:

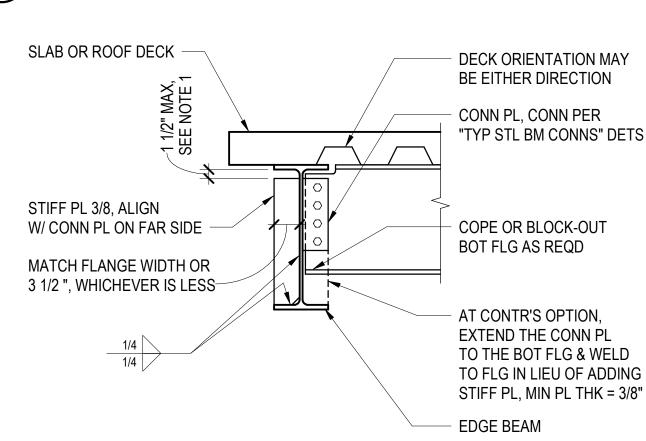
- 1. THIS DETAIL SHALL BE USED ONLY FOR BEAMS UP TO 8 INCHES DEEP AND WEIGHING AT LEAST 8 LB/FT. SEE "TYPICAL BEAM TO BEAM / BEAM TO COLUMN CONNECTION" FOR DEEPER BEAMS.
- 2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
- (19) TYPICAL SHALLOW BEAM CONNECTION



#### NOTES BELOW APPLY TO ALL TYPICAL CONNECTIONS UNLESS NOTED OTHERWISE

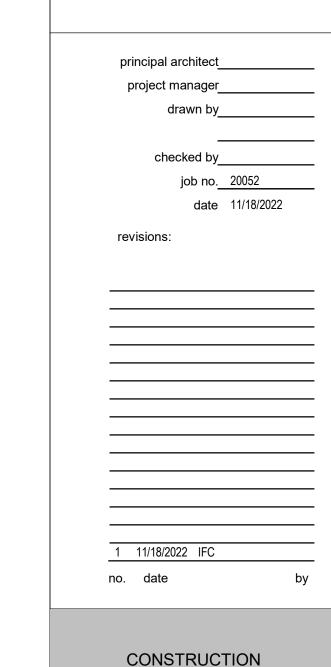
- 1. SEE PLANS FOR BEAM SIZE. UNLESS NOTED OTHERWISE, PROVIDE THE NUMBER OF 7/8 INCH DIAMETER GRADE A325 BOLTS SHOWN IN "TABLE A" BASED ON THE BEAM
- 2. SHEAR TAB PLATES SHALL BE GRADE 50 MATERIAL, AND BE 1/4 INCH THICK WITH 3/16 INCH WELD EACH SIDE FOR (2) BOLTS, 5/16 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (3) BOLTS TO (5) BOLTS, AND 3/8 INCH THICK WITH 1/4 INCH WELD EACH SIDE FOR (6) BOLTS OR MORE.
- 3. BEAMS AND SHEAR TAB PLATES SHALL HAVE STANDARD ROUND HOLES (STD) UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, HOLES IN SHEAR TAB PLATES MAY BE HORIZONTAL SHORT-SLOTTED HOLES.
- 4. WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE TYPICAL DETAIL, DESIGN CONNECTIONS ACCORDING TO THE AISC MANUAL OF STEEL CONSTRUCTION.

# GENERAL NOTES FOR STEEL CONNECTIONS



#### NOTES:

- 1. AT LOCATIONS WHERE A CONCRETE SLAB DOES NOT EXIST AT EDGE BEAM, THE STIFFENER PLATE OR CONNECTION PLATE SHALL BE EXTENDED TO FULL DEPTH AND WELDED ON THREE SIDES.
- 2. THIS DETAIL APPLIES AT ALL EDGE OF SLAB CONDITIONS.
- TYPICAL STEEL EDGE BEAM STIFFENER



Reserved for permit stamp

Kundi

OISO

MAGNUSSON

KLEMENCIC

Structural + Civil Engineers

ASSOCIATES

Seattle Chicago

www.mka.com 206 292 1200  $\circ$ 

project:
SOMMET

**BLAN**(UTAH

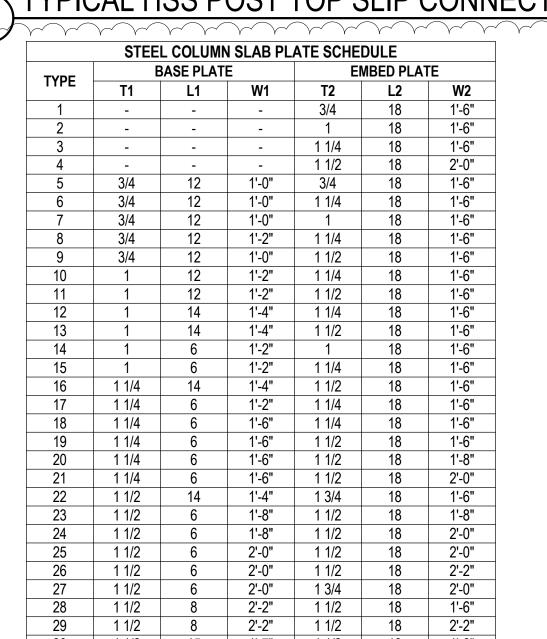
DOCUMENTS

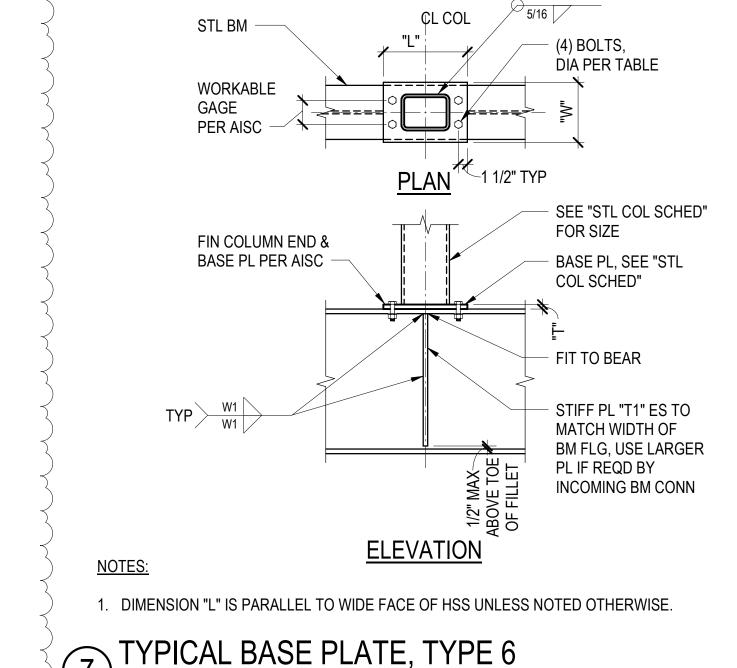
11/18/2022

S4.11

TYPICAL STEEL **DETAILS** 

1. WHERE NOTE APPLIES, BOLT TO BE CENTERED IN SLOTTED HOLE IN ANGLE. NUTS TO BE FINGER TIGHT. DAMAGE THREADS OF BOLT TO PREVENT BACK-OFF OF NUT.





**CL COL** 

**CONNECTION AT WF COL** 

5/16

(4) 3/4"ø STUDS

FIN COL END & EMBED

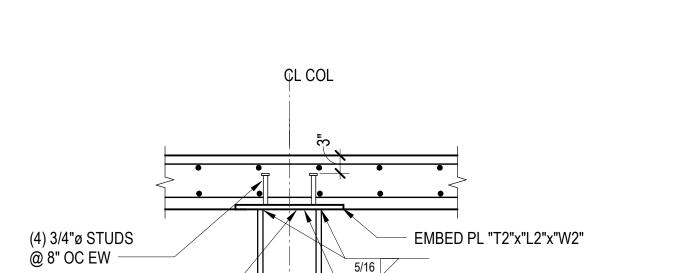
PL TO BEAR PER AISC

@ 8" OC EW

EMBED PL "T2"x"L2"x"W2"

**TYPE 6 STIFFENER PLATE TABLE** BOLT SIZE BOLT GRADE **COLUMN SIZE** 

#### 1 1/2 | 15 | 1'-7" | 1 3/4 | 18 | 1'-6" STEEL COLUMN SLAB PLATE SCHEDULE



CONNECTION AT WF COL

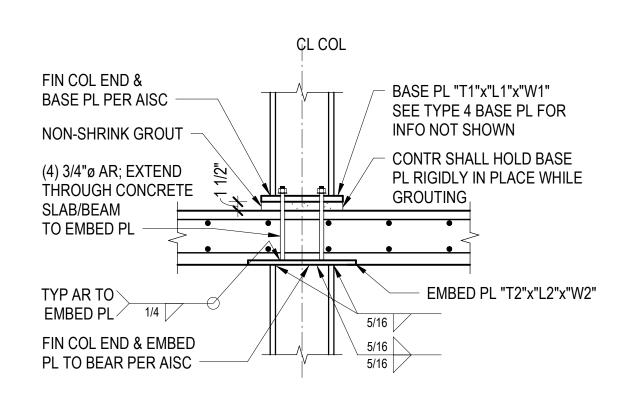


FIN COL END & EMBED

PL TO BEAR PER AISC

1. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS.

# TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING





#### NOTES:

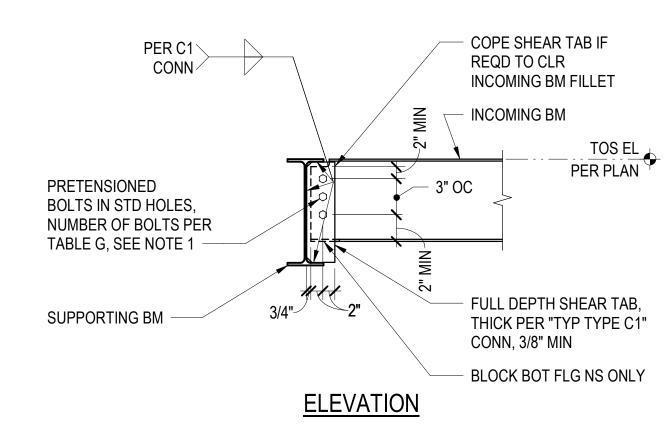
- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.
- 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER "AISC MANUAL -TABLE 14-2", UNLESS NOTED OTHERWISE.
- 3. SEE STEEL COLUMN SLAB PLATE SCHEDULE FOR PLATE DIMENSIONS
- ÇL COL FIN COL END & BASE PL "T1"x"L1"x"W1" BASE PL PER AISC SEE TYPE 4 BASE PL FOR INFO NOT SHOWN NON-SHRINK GROUT CONTR SHALL HOLD BASE (4) 3/4"ø AR; EXTEND PL RIGIDLY IN PLACE WHILE THROUGH CONCRETE TO EMBED PL - EMBED PL "T2"x"L2"x"W2" EMBED PL 1/4 FIN COL END & EMBED PL TO BEAR PER AISC

**CONNECTION AT HSS COL** 

WHERE COLUMN ABOVE IS WIDE FLANGE, ANCHOR ROD GAGE SHALL BE AS FOLLOWS: W10: 5 INCHES W12: 6 INCHES W14: 8 INCHES

WHERE COLUMN ABOVE IS HSS AND WHERE EDGE OF BASE PLATE IS LESS THAN 9/16 INCH FROM THE FACE OF THE HSS, PROVIDE A PARTIAL PENETRATION GROOVE WELD OF THE HSS TO THE BASE PLATE IN LIEU OF FILLET WELD ON THAT FACE OF THE HSS. GROOVE WELD SIZE SHALL BE THE THICKNESS OF THE HSS WALL OR 5/16 INCH, WHICHEVER IS LESS.

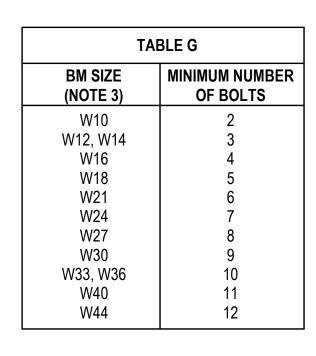
TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING

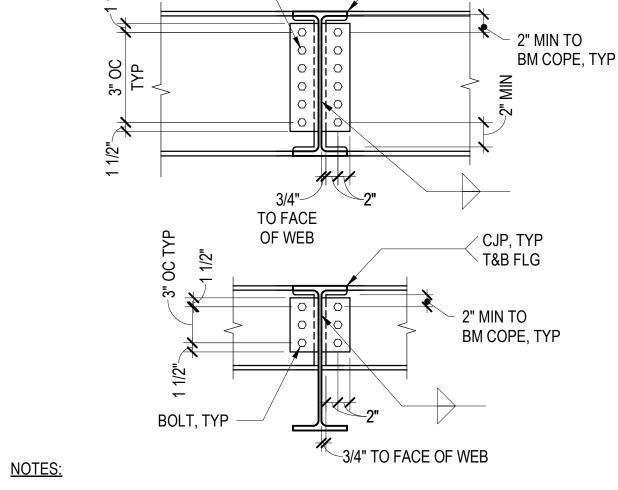


#### NOTES:

- 1. SEE "TYPICAL TYPE C1" FOR BOLT SIZE AND TYPE, WELD SIZE, PLATE THICKNESS, AND COPE REQUIREMENTS.
- 2. THIS CONNECTION SHALL ONLY BE USED WHEN SPECIFICALLY CALLED OUT ON PLAN OR IN A DETAIL.
- 3. BEAM SIZE IS SHALLOWER OF INCOMING AND SUPPORTING BEAM.

# TYPICAL STEEL CONNECTION, TYPE C30





CJP, TYP T&B FLG

Reserved for permit stamp

Kundig

Olson

MAGNUSSON

KLEMENCIC

Structural + Civil Engineers

principal architect

1 11/18/2022 IFC

CONSTRUCTION

DOCUMENTS

11/18/2022

TYPICAL STEEL

**DETAILS** 

no. date

date 11/18/2022

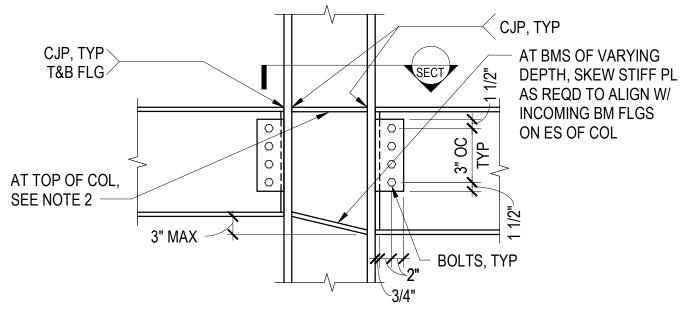
ASSOCIATES

Seattle Chicago www.mka.com 206 292 1200 ABC

Project:
SOMMET BLANC DEER VALLEY, UTAH

- 1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
- 2. THIS DETAIL APPLIES ONLY FOR BEAMS OF EQUAL DEPTH EACH SIDE OF SUPPORTING BEAM.

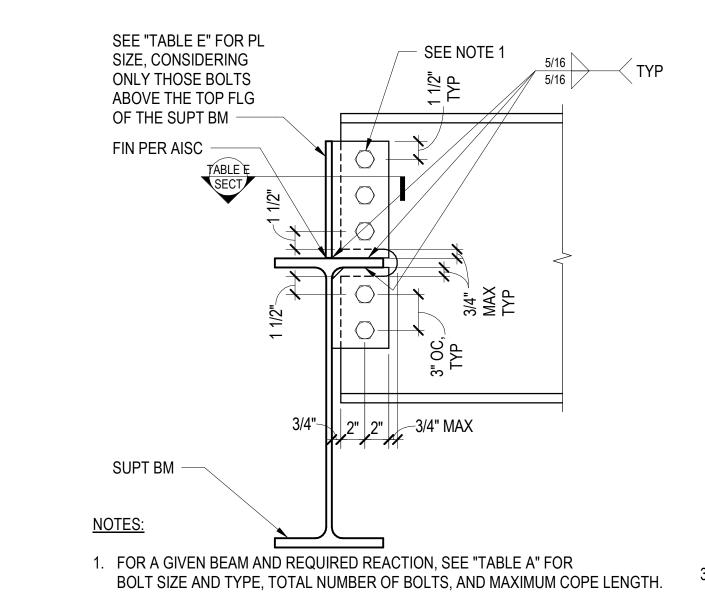
# TYP BEAM TO BEAM MOMENT CONNECTION



- 1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
- 2. AT TOP OF COLUMN, PROVIDE 1/4 INCH PJP WELD IN LIEU OF TOP SIDE FILLET WELD OR. AT CONTRACTOR'S OPTION. A SINGLE CAP PLATE MAY BE USED IN LIEU OF TWO STIFFENER PLATES. USE 5/16 INCH ONE SIDED FILLET WELD FOR CAP PLATE TO EACH COLUMN FLANGE AND EACH SIDE OF COLUMN WEB.
- 3. AT CONTRACTOR'S OPTION, WIDTH OF STIFFENER PLATES MAY BE REDUCED TO MATCH LARGEST INCOMING BEAM FLANGE IF NO OTHER INCOMING CONNECTIONS OCCUR AT A GIVEN BEAM -TO-COLUMN CONNECTION.

#### PROVIDE T&B FLG STIFF PL, TYP, AT TOP \ 1/4 WIDTH TO MATCH COL FLG OF COL SEE (MATCH GRADE, & THK OF LARGEST INCOMING BM FLG) SEE NOTE 3

# 9 TYPICAL BM TO COL FLANGE MOMENT CONN



2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

SEE NOTE 1

SEE NOTE 1

SEE "TABLE E" FOR PL SIZE

12 MAX

SEE NOTE 1

SEE NOTE 1

**SECTION AT** 

PERPENDICULAR BEAMS

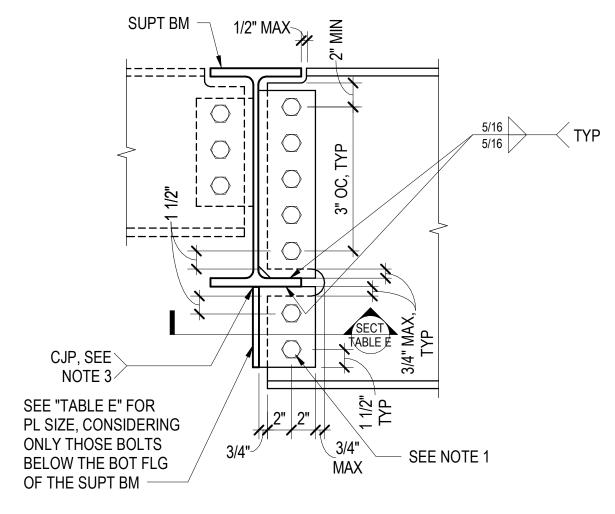
CL BM WEB

SECTION AT

SKEWED BEAMS

SEE "TABLE E"

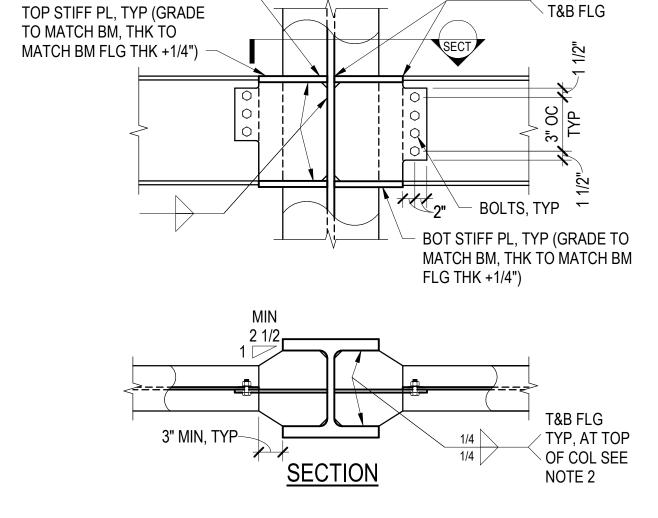
FOR PL SIZE



CONTRACTOR SHALL PERFORM ULTRASONIC TESTING AND INSPECTION OF

#### NOTES:

- 1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
- 2. AT TOP OF COLUMN, PROVIDE 1/4 INCH PJP WELD IN LIEU OF TOP SIDE FILLET WELD OR, AT CONTRACTOR'S OPTION, A SINGLE CAP PLATE MAY BE USED IN LIEU OF TWO STIFFENER PLATES. USE 5/16 INCH ONE SIDED FILLET WELD FOR CAP PLATE TO EACH COLUMN FLANGE AND EACH SIDE OF COLUMN WEB.
- 3. THIS DETAIL APPLIES ONLY FOR BEAMS OF EQUAL DEPTH EACH SIDE OF COLUMN.



COL WEB

BOLTS, TYP

- FULL WIDTH STIFF PL AS

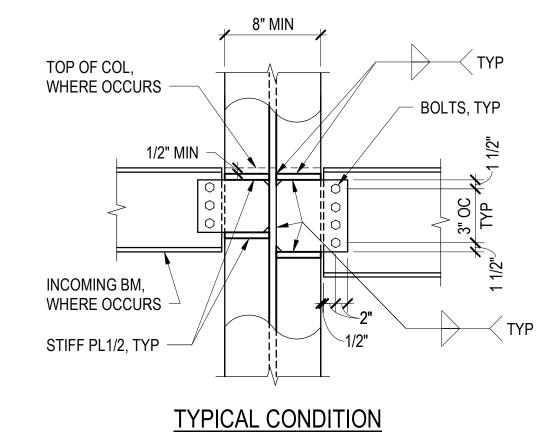
REQD FOR BM TO COL

FLG MOMENT CONN,

1/2" MIN THK, TYP

/ CJP, TYP

#### TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION



# SEE NOTE 5

AT TOP OF COL, SEE NOTE 2

#### CONDITION AT INCOMING BEAM TO COLUMN FLANGE MOMENT CONNECTION

5. WHEN DIMENSION SHOWN IS 6 INCHES OR LESS, EXTEND VERTICAL PLATE TO LOWER STIFFENER. WHEN DIMENSION SHOWN IS GREATER THAN 6 INCHES PROVIDE ADDITIONAL STIFFENER PLATE PL1/2 AT BOTTOM OF VERTICAL PLATE.

# NOTES:

- 1. SEE "GENERAL NOTES FOR STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.
  - 2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.
  - 3. BEAMS MAY BE SKEWED UP TO 30 DEGREES.
  - 4. THIS DETAIL SHALL BE USED WITH W10, W12, AND W14 COLUMNS ONLY.

#### SEE "TABLE E" FOR PLATE SIZE PL LENGTH-SEE NOTE 1 3/4" **SECTION** NOTES: 1. FOR A GIVEN BEAM AND REQUIRED REACTION, SEE "TABLE A" FOR BOLT SIZE AND TYPE, NUMBER OF BOLTS, AND MAXIMUM COPE LENGTH.

LENGTH OF WELD FOR

BU BM = PL LENGTH + 6"

NOTE 3/

#### 2. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

STIFFENER PLATE, SEE "TABLE E" -

- 3. PROVIDE FILLET WELD AT BUILT-UP BEAMS. WELD SIZE "W" SHALL BE 0.75tw, WHERE "tw" IS THE SUPPORT BEAM WEB THICKNESS.
- 4. CONTRACTOR SHALL PERFORM ULTRASONIC TESTING AND INSPECTION OF SUPPORT BEAM BOTTOM FLANGE PER SPECIFICATION FOR WELDED CONNECTIONS.

#### 3. WHERE SUPPORT BEAM WEB THICKNESS EXCEEDS NOMINAL WEB THICKNESS IN "TABLE E", STIFFENER PLATES MAY BE OMITTED.

TYPICAL TYPE C21 - BEAM FLANGE INTERSECTING BEAM WEB

PLATE LENGTH,

SEE NOTE 1, TYP ES

TOTAL THICKNESS IS

**REQD THICKNESSES** 

FOR EA INCOMING BM

THE SUM OF THE

PER "TABLE E"

**SECTION AT** 

**INCOMING BEAM BOTH SIDES** 

SEE NOTE 1,

TYP ES

SEE NOTE 2

-(18) TYP TYPE C23 - BEAM TO DEPRESSED BM CONN (19) TYPICAL BEAM TO COLUMN WEB SHEAR CONNECTION

1. VERTICAL PLATE THICKNESS AND WELD SIZE SHALL BE PER "TABLE A" OR "TABLE B", WHICHEVER IS APPLICABLE. 2. PLATE LENGTH SHALL BE DETERMINED PER "TABLE E" BY THE GREATEST

7/8

NUMBER OF BOLTS REQUIRED FOR EITHER INCOMING BEAM CONNECTION.

10

**TABLE E** 

**7/8" DIA GR A325 BOLTS** 

1 | 10 |

1" DIA GR A490 BOLTS

PL NOMINAL WEB STIFF PL

0.44

0.50

0.61

0.64

0.48

0.57

0.65

0.72

3/8

1/2

5/8

5/8

3/8

1/2

5/8

3/4

THICKNESS | LENGTH | THICKNESS | THICKNESS

PL PL NOMINAL WEB STIFF PL

THICKNESS LENGTH THICKNESS THICKNESS

16 TABLE E

OF BOLTS

9-10

NUMBER

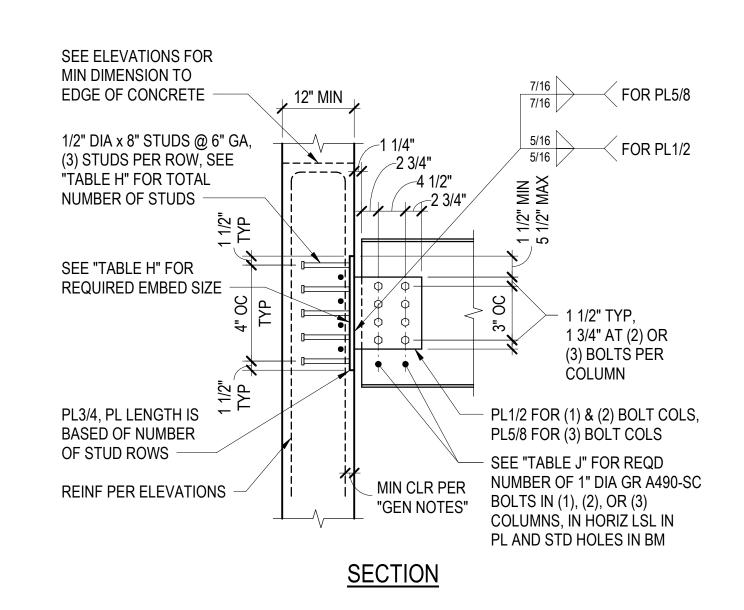
OF BOLTS

2-4

7-8

9-10

11-12



1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN.

CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO

3. MINIMUM NUMBER OF BOLT ROWS SHALL CONFORM TO THE REQUIREMENTS OF

4. ADDITIONAL HORIZONTAL REINFORCEMENT MAY BE OMITTED WHERE DISTANCE

FROM WALL EDGE TO CLOSEST STUD IS 2'-0" OR GREATER, OR WHERE WALL HORIZONTAL REINFORCEMENT HAS A MAXIMUM SPACING OF 8" OC FOR #4 AND

5. ADDITIONAL VERTICAL REINFORCEMENT MAY BE OMITTED WHERE DISTANCE

6. WHEN AN EMBED HAS (21) OR MORE STUDS AND ALL STUDS ARE 12" OR GREATER

FROM ANY VERTICAL AND HORIZONTAL WALL EDGES, EMBED CAPACITIES IN

7. WHERE ANY STUD ON AN EMBED IS LESS THAN 12" FROM BOTH A VERTICAL AND A

8. WHERE A STEEL BEAM FRAMES INTO THE END OF A WALL LESS THAN 32" THICK OR INTO THE FACE OF A COLUMN LESS THAN 32" WIDE, SEE "TYPICAL TYPE C25"

HORIZONTAL WALL EDGE, REDUCE EMBED CAPACITIES IN "TABLE H" BY 25%.

9. WHERE A STEEL BEAM FRAMES INTO A CONCRETE BEAM OR A CONCRETE

COUPLING BEAM, SEE "TYPICAL TYPE C26" DETAIL.

RECEIVE SHEAR TAB.

2. DO NOT COPE STEEL BEAM FLANGES.

"GENERAL NOTES FOR STEEL CONNECTIONS."

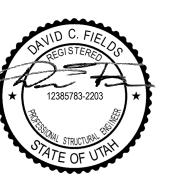
#5 BARS OR 12" OC FOR #6 BARS AND GREATER.

"TABLE H" MAY BE INCREASED BY 40%.

FROM WALL EDGE TO CLOSEST STUD IS 1'-0" OR GREATER.

	TABLE H											
TOTAL	MAXIMUM REACTION (KIPS)											
NUMBER OF STUDS	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PS					
9	47	52	58	62	66	71	74					
12	55	61	67	72	77	82	87					
15	62	70	76	83	88	94	99					
18	70	78	86	93	99	105	111					
21	78	87	95	103	110	117	123					
24	86	96	105	113	121	129	136					
27	93	104	114	124	132	140	148					
30	101	113	124	134	143	152	160					
33	109	122	133	144	154	163	172					
36	117	130	143	154	165	175	185					
39	124	139	152	165	176	187	197					

	TABI	LE J	
NUMBER OF	MAXIMU	JM REACTIO	N (KIPS)
BOLTS PER COLUMN	(1) BOLT COLUMN	(2) BOLT COLUMNS	(3) BOLT COLUMNS
2	9	19	30
3	18	33	49
4	31	53	71
5	46	75	101
6	62	100	132
7	78	128	167
8	95	158	204
9	112	189	245
10	128	221	288
11	144	253	333
12	160	286	379



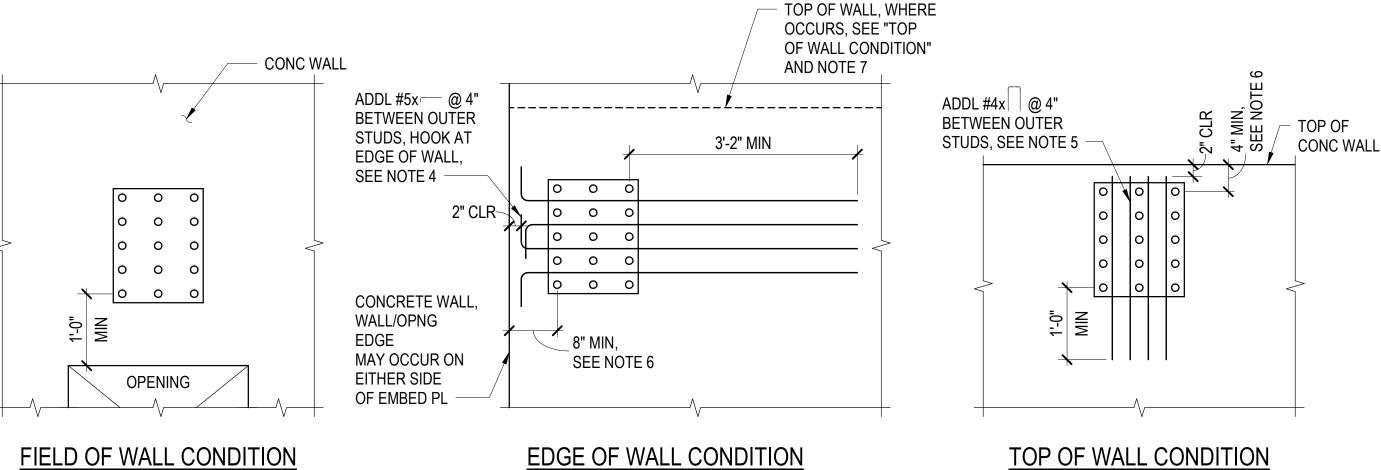
Reserved for permit stamp

Kundig

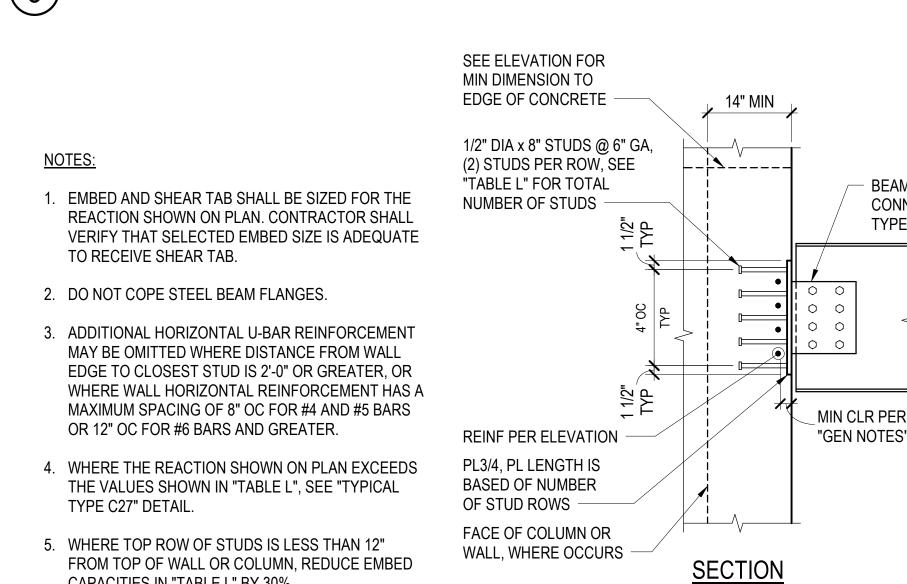
 $\circ$ BLAN UTAH project:
SOMMET
DEER VALLEY,

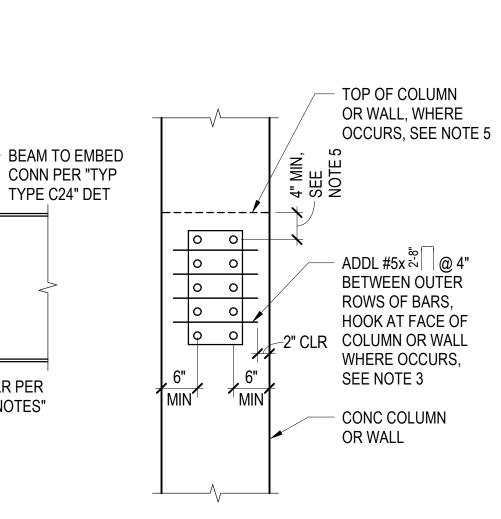
ASSOCIATES Structural + Civil Engineers Seattle Chicago www.mka.com 206 292 1200

MAGNUSSON KLEMENCIC



10. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM. 8 TYPICAL TYPE C24 - STEEL CONNECTION TO CONCRETE WALL





**ELEVATION** 

2'-8" MIN AT

			TABI	LE L			
TOTAL			MAXIMU	M REACTION	ON (KIPS)		
NUMBER OF STUDS	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PS
6	42	47	49	49	49	49	49
8	47	53	58	63	66	66	66
10	52	59	64	69	74	79	82
12	58	64	71	76	82	87	91
14	63	70	77	83	89	94	99
16	68	76	83	90	96	102	108
18	73	82	90	97	104	110	116
20	78	88	96	104	111	118	124
22	83	93	102	110	118	125	132
24	89	99	109	117	125	133	140
26	94	105	115	124	133	141	149

6. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

CAPACITIES IN "TABLE L" BY 30%.

NOTES:

TYPICAL TYPE C25 - STEEL CONNECTION TO CONCRETE COLUMN OR END OF WALL

SEE ELEVATION FOR MIN DIMENSION TO

EDGE OF CONCRETE

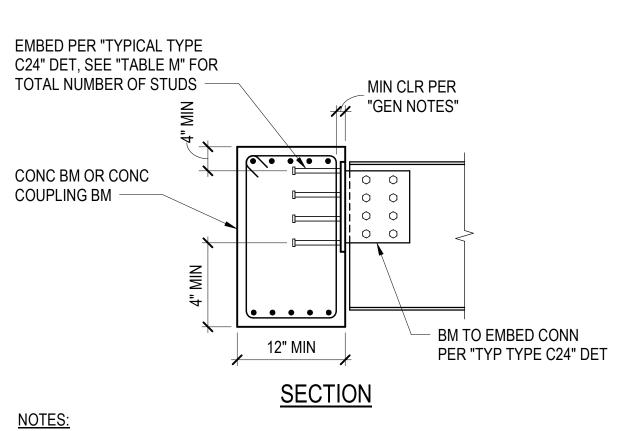
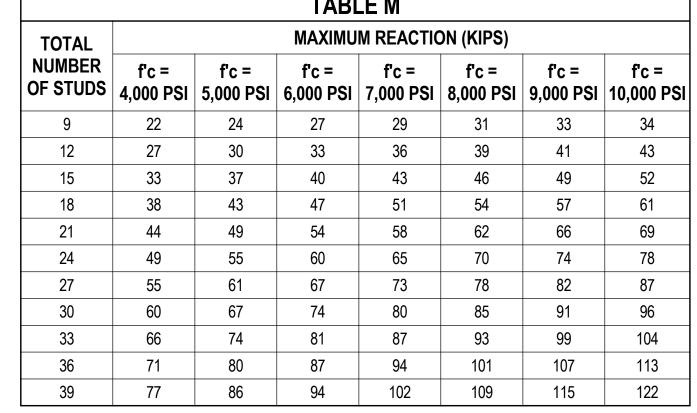


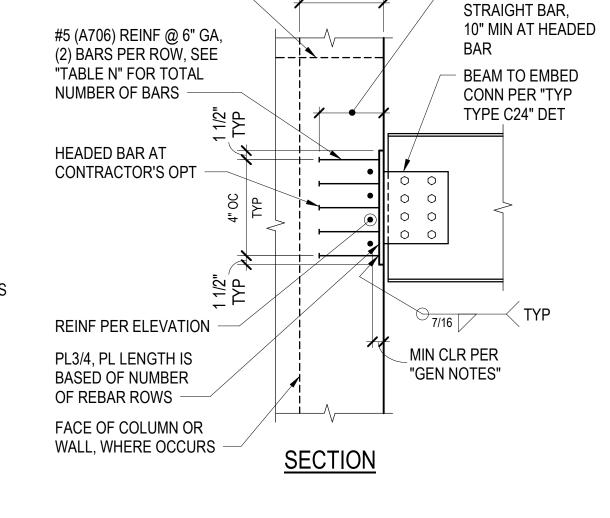
	TABLE M													
TOTAL			MAXIMU	M REACTION	ON (KIPS)									
NUMBER OF STUDS	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PSI							
9	22	24	27	29	31	33	34							
12	27	30	33	36	39	41	43							
15	33	37	40	43	46	49	52							
18	38	43	47	51	54	57	61							
21	44	49	54	58	62	66	69							
24	49	55	60	65	70	74	78							
27	55	61	67	73	78	82	87							
30	60	67	74	80	85	91	96							
33	66	74	81	87	93	99	104							
36	71	80	87	94	101	107	113							
39	77	86	94	102	109	115	122							

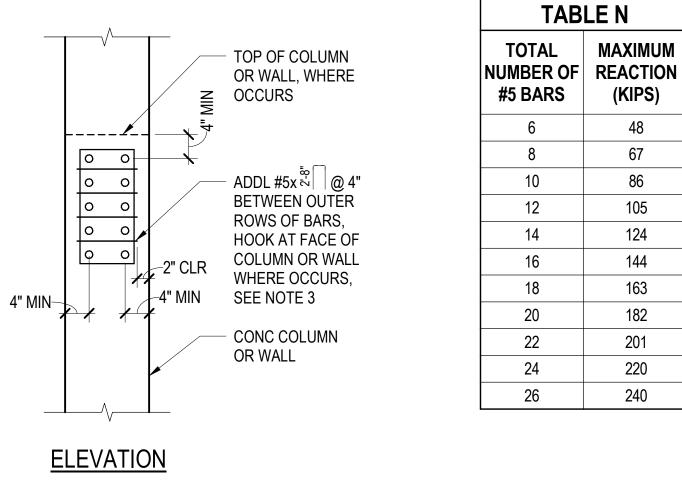
- 1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB.
- 2. DO NOT COPE STEEL BEAM FLANGES.
- 3. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.



- 1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB. 2. DO NOT COPE STEEL BEAM FLANGES. ADDITIONAL HORIZONTAL U-BAR REINFORCEMENT MAY BE OMITTED
- WHERE DISTANCE FROM WALL EDGE TO CLOSEST STUD IS 2'-0" OR GREATER, OR WHERE WALL HORIZONTAL REINFORCEMENT HAS A MAXIMUM SPACING OF 8" OC FOR #4 AND #5 BARS OR 12" OC FOR #6 BARS AND GREATER.

4. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.





105 124 144 163 182 201 220 240

TYPICAL STEEL BEAM CONNECTIONS TO CONCRETE

CONSTRUCTION

DOCUMENTS

11/18/2022

1 11/18/2022 IFC

no. date

principal architect

project manager\_\_

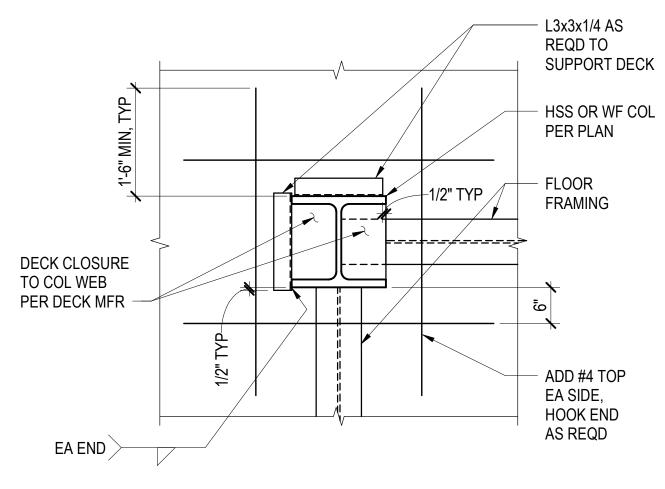
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job no. 20052

date 11/18/2022

S4.13

TYPICAL TYPE C27 - HEAVY STEEL CONNECTION TO CONCRETE COLUMN OR WALL



#### NOTES:

- 1. SHEAR STUD PLACEMENT TO BEAM IS PER TYPICAL DETAIL. COORDINATE DECK AND STEEL FRAMING PLACEMENT. WHERE DECK LOW FLUTE DOES NOT ALIGN WITH BEAM FLANGE BELOW, PROVIDE LOCAL MODIFICATION TO DECK TO FACILITATE SHEAR STUD PLACEMENT. SIMILARLY MODIFY SUPPORT CONDITIONS WHEN DECK IS SKEWED TO THE BEAMS AS REQUIRED TO ALLOW FOR PLACEMENT OF STUDS IN ACCORDANCE WITH THE TYPICAL DETAIL.
- 2. ALL OPENINGS IN SLAB OR ROOF DECKS SHALL BE COORDINATED, FRAMED, AND REINFORCED PER THE TYPICAL DETAILS. DO NOT CUT DECK UNTIL FRAMING IS PLACEDAND CONCRETE IS CURED AS NOTED.
- 3. CONDUIT IN SLAB ON DECK IS PERMITTED ONLY WHEN FULLY SATISFYING THE REQUIREMENTS OF THE TYPICAL CONDUIT IN SLAB ON STEEL DECK DETAIL. WHEN CONDUIT VERTICALLY RUNS INTO THE SLAB, IT IS TO BE TREATED AS A DECK OPENING AND REINFORCED AS REQUIRED PER THE TYPICAL DETAILS.
- 4. JOINTING OF SLABS ON DECK SHALL BE PER THE TYPICAL DETAILS AND SATISFY THE REQUIREMENTS OF THE GENERAL NOTES.
- 5. SUPPORT ALL DECK AT FRAMING, COLUMNS, AND WALLS PER THE TYPICAL DETAILS. DISCONTINUOUS TOP OF COLUMNS SUPPORTING SLAB OR ROOF DECK SHALL HAVE A 3/8" CAP PLATES SUITABLY SIZED TO SUPPORT THE DECK UNLESS OTHERWISE SHOWN.
- 6. ROOF DECK EDGE CONDITIONS SHALL BE PER THE TYPICAL DETAILS. AT ROOF DECK EDGE CONDITIONS WHERE PLATE IS NOT REQUIRED TO SUPPORT EXTENT OF ARCHITECTURAL ROOFING, EXTERIOR CLADDING SYSTEMS, OR OTHER ARCHITECTURAL FEATURES IT, MAY BE OMITTED. CONTRACTOR TO COORDINATE
- 7. SLAB ON DECK EDGE CONDITIONS SHALL BE PER THE TYPICAL DECK EDGE CONDITIONS DETAIL. AT SLAB EDGE CONDITIONS WHERE RAILING, EXTERIOR CLADDING, OR OTHER ARCHITECTURAL FEATURES REQUIRE A PLATE EDGE, SEE "TYPICAL DECK EDGE AT EXTERIOR CLADDING OR RAILING" DETAIL. CONTRACTOR TO COORDINATE
- 8. CONTRACTOR TO COORDINATE SLAB ON DECK EDGE CONDITIONS WITH ELEVATOR AND DOCK LEVELER SILLS DETAIL WHERE OCCURS. REFER TO "TYPICAL ELEVATOR AND DOCK LEVELER SILL" DETAIL FOR REQUIREMENTS.

1. SEE "TYPICAL DECK EDGE CONDITIONS" FOR DECK EDGE SUPPORT AT COLUMNS

- 1. SEE PLAN FOR REQUIRED NUMBER OF STUDS. SEE "GENERAL NOTES" FOR MINIMUM NUMBER OF STUDS AND MINIMUM STEEL COMPOSITE DECK TO STEEL BEAMS FASTENING REQUIREMENTS.
- UNLESS NOTED OTHERWISE, STUDS ARE TO BE SPACED AS SHOWN IN THIS DETAIL AND PLACED SYMMETRICALLY ABOUT THE BEAM CENTERLINE AXIS. IF REQUIRED SPACING IS NOT POSSIBLE DUE TO DECK CONFIGURATION, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED.
- 3. FOR CANTILEVER SPANS, STUDS SHALL BE PLACED IN ONE ROW ALONG THE BEAM CENTERLINE AXIS AT A MAXIMUM SPACING OF 2'-0". STUDS PLACED ON THE CANTILEVER SPAN ARE NOT INCLUDED IN THE NUMBER OF STUDS SHOWN ON PLAN.
- WHERE WELDED WIRE REINFORCING IS USED AS SLAB REINFORCEMENT, ADDITIONAL REINFORCEMENT SHALL BE PLACED PERPENDICULAR TO THE BEAM, ACROSS THE BEAM AND CANTILEVERED SPANS AS FOLLOWS:
  - < 3 STUDS / FT ADD NONE 3 OR MORE STUDS / FT - ADD #4x5'-0" @ 12"
- 5. FOR BEAMS WEIGHING LESS THAN OR EQUAL TO 16 LBS/FT, STUDS SHALL BE PLACED ONLY ON THE CENTERLINE OF THE BEAM.

# — BENT PL1/4 ゔ゚<u>ノ</u> (A36)

STUDS PER PLAN, TYP

2" MIN, TYP-

4-8

PLACE STUDS

ON BM CL AXIS

COORD STUD PLACEMENT

W/ EDGE FORM. NOTCH

(1/2" MAX CLR TO STUD)

FORM AS REQD, TYP

SEE "TABLE K"

FOR TOP REINF

UNO ON PLAN -

WHERE PRESENT

LOWER WWR TO

PLACE TOP BAR

OVER 9" TO 1'-4"

OVER 1'-4" TO 2'-0"

PLATES

**TABLE K** 

1. WELDING SHALL BE AS FOLLOWS:

2. MATERIALS ARE TO BE AS FOLLOWS:

REINFORCING

#4 @ 18"

#4 @ 12"

#4 @ 8"

WELD SIZE x LENGTH AT SPACING

3/16 "x 2" @ 12" OC (2" MIN EA PIECE END)

AT CONTRACTOR'S OPTION, ASTM A36 (Fy=36 KSI MIN) MAY BE USED FOR PLATES

THE CONTRACTOR. PROVIDE SHORING AND FRAMING MATERIALS AS REQUIRED.

7. AT BLOCKOUTS FOR CLADDING CONNECTIONS, EDGE REINFORCING IS TO BE CONTINUOUS.

9. FOR ELEVATOR AND DOCK LEVELER SILLS SEE "TYPICAL ELEVATOR AND DOCK LEVELER SILL" DETAIL.

8. AT RECESS CONDITIONS, EDGE PLATE HEIGHT TO MATCH THE SLAB HEIGHT AT RECESS.

USE THE PLATE TO DIRECTLY SUPPORT CLADDING LOADS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.

6. AT CORNER COLUMNS, USE BOTH "TYPICAL EDGE CONDITION AT COLUMN" DETAILS. EDGE FORM SHALL BE MITERED AND

GAUGE METAL 1/8 "x 1 1/2" @ 12" OC (1" MIN EA PIECE END)

18 GAUGE AND LIGHTER - ASTM A653 - Fy = 33 KSI MINIMUM.

16 GAUGE AND HEAVIER - ASTM A653 - Fy = 50 KSI MINIMUM.

#4 CONT, TYP

6" MAX CONCRETE OVER DECK, TYP

- 3/4" DIA x 4" STUDS @ 24", TYP AT BM WEB & ANGLES

- #4 CONT T&B

- #4 @ 8" OC

L3x3x1/4

PROVIDE (1) STUD EVERY OTHER FLUTE ACROSS BEAM LENGTH

(1) ROW OF STUDS

PROVIDE (1) STUD IN EA FLUTE ACROSS BEAM LENGTH

REMAINING STUDS ((1) ADDL PER FLUTE)

(2) ROW OF STUDS

PROVIDE (2) STUDS IN EA FLUTE ACROSS BEAM LENGTH

STARTING AT EA END WORKING TO MIDSPAN

REMAINING STUDS ((1) ADDL PER FLUTE)

(3) ROW OF STUDS

DETERMINE STUD LAYOUT WITH FIRST STUD IN FLUTE CLOSEST TO BEAM ENDS

~<del>x ---- x --- x -</del>

DECK SPANNING PARALLEL TO BEAM

STARTING AT EA END WORKING TO MIDSPAN

STARTING AT EA END WORKING TO MIDSPAN

REMAINING STUDS FILL EMPTY FLUTES

3/4" CLR TO WWR

BENT PL TO BM FLG/

BENT PL1/4 x

4 1/2" MIN

**★** ★ 4 1/2" MIN

2'-0" MAX

#4 CONT

**OVERHANG** 

AT 18 & 20 GAUGE EDGE

FORM/ CLOSURE, PROVIDE

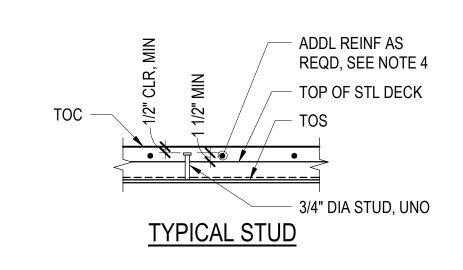
2'-0" MAX

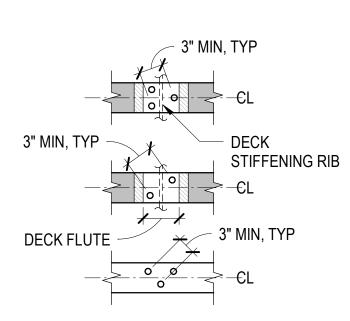
OR REBAR, TYP

-1 1/2" TYP

<del>\\_\_\_\_\_\_</del>

- 1. STUDS ARE TYPICALLY 3/4 INCH DIAMETER AT 24 INCHES ON CENTER MAXIMUM, UNLESS NOTED OTHERWISE.
- 2. AT ALL ANGLES AND WEBS LESS THAN OR EQUAL TO 1/4 INCH THICK, USE 1/2 INCH DIAMETER x 4 INCH STUDS AT 12 INCHES ON CENTER.
- 3. DECK SPANS EITHER DIRECTION, SEE PLANS.
- 4. ROOF DECK SIMILAR.





#### STAGGER DETAILS (USE AS REQUIRED) DECK FLUTES PERPENDICULAR TO BEAM NUMBER OF ROWS = # STUDS / FEET OF BEAM LENGTH, ROUNDED UP

#### PROVIDE UNIFORMLY SPACED ROW ACROSS BEAM LENGTH PLACE STUDS 4 1/2" MIN (1) ROW OF STUDS ON BM CL AXIS 2'-0" MAX PROVIDE STUDS IN UNIFORM ROW AT MIN LONGITUDINAL SPACING EMAINING STUDS ADDED STARTING AT EA END WORKING TO MIDSPAN 4 1/2" MIN STAGGER 2'-0" MAX PROVIDE STUDS IN (2) UNIFORM ROWS AT MIN LONGITUDINAL SPCG EMAINING STUDS ADDED STARTING AT EA END WORKING TO MIDSPAN \* \* STAGGER 4 1/2" MIN AS REQD 2'-0" MAX

L4x3x1/4, LLV

- L4x3x1/4 LLV

BENT PL

L4x3x1/4 LLV

L3x3x1/4

Reserved for permit stamp

(undi

MAGNUSSON

KLEMENCIC

Structural + Civil Engineers

principal architect

1 11/18/2022 IFC

CONSTRUCTION

DOCUMENTS

11/18/2022

no. date

project manager\_

checked by

job no. 20052

date 11/18/2022

ASSOCIATES

Seattle Chicago

www.mka.com

206 292 1200

DECK FLUTES PARALLEL TO BEAM NUMBER OF ROWS = (0.375 x # STUDS) / FEET OF BEAM LENGTH, ROUNDED UP DETERMINE STUD LAYOUT WITH FIRST STUD PLACED 6" FROM BEAM ENDS

# STEEL DECK NOTES

EXTEND PAST DIAPHRAGM REINF

CHORD BARS RUNNING PARALLEL

#4 @ 18" UNO ON "DIAPHRAGM

REINF SCHED". HOOK BAR IF

PLUS REQD BAR END COVER

(COUPLER AT CONTR'S OPT)

L4x4x1/4 CONT W/ 3/4" DIA

PER SECTION OF ANGLE

1. ROOF DECK IS SIMILAR.

JOINT KEY PER GENERAL NOTES.

EQUAL. PROVIDE HORIZONTAL LSL HOLES IN L4x4.

EMBED (SEE NOTE 4) @ 3'-0" OC TYP, (2) MIN

NOTES:

DICA & 4 3/4" MIN EFFECTIVE

WALL THK IS LESS THAN Lt

TO CORE WHERE OCCURS

CONC WALL REINF NOT

SHOWN FOR CLARITY



ANGLE

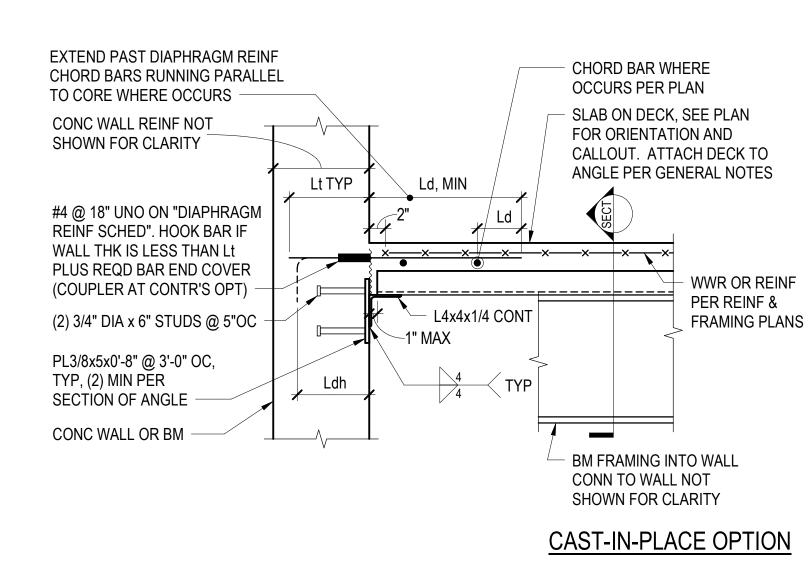
BM FRAMING

INTO WALL

3" MAX, TYP

DIAPHRAGM REINF SCHEDULE

LOCATION | BAR TYPE | SPACING



CHORD BAR WHERE

OCCURS PER PLAN

\_\_\_\_\_\_

SLAB ON DECK, SEE PLAN

CALLOUT. ATTACH DECK TO

ANGLE PER GENERAL NOTES

**WWR OR REINF** 

FRAMING PLANS

6" MAX, TYP

PER REINF &

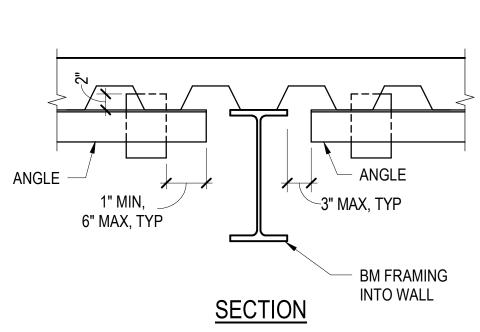
FOR ORIENTATION AND

BM FRAMING INTO WALL

CONN TO WALL NOT

SHOWN FOR CLARITY

POST-INSTALLED OPTION

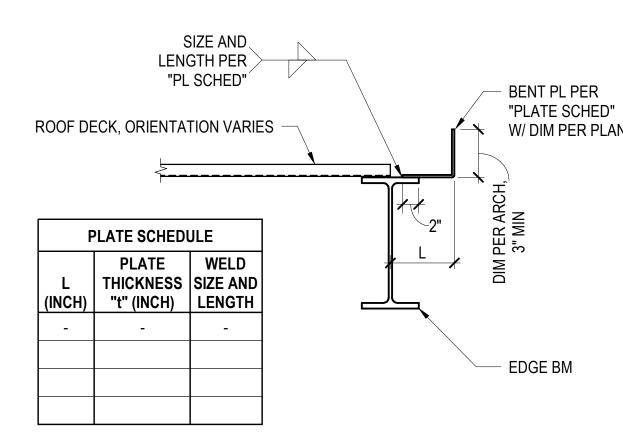


#### - #3 @ 12" IF D ≤ 2 1/2" ALL SLAB REINF SHALL #4 @ 12" IF D > 2 1/2" < D ≤ 4 3/4" BE CONT THRU JOINT #5 @ 12" IF D > 4 3/4" DECK SPANS EITHER DIRECTION Ld

# NOTES:

- SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
- 2. REFER TO GENERAL NOTES FOR CONSTRUCTION JOINT LOCATION REQUIREMENTS

# OVER 2'-0" TO 2'-6" TYP SLAB ON DECK CONSTRUCTION JOINT



- $^\circ$ 2. PROVIDE PJP 1/4 (E) MIN WELD AT VERTICAL LEG TO SPLICE BENT PLATES, TYP. FOR PL THICKNESS LESS THAN 3/8", PROVIDE PJP 1/8 (E) MIN. GRIND SMOOTH AT



# W/ DIM PER PLAN

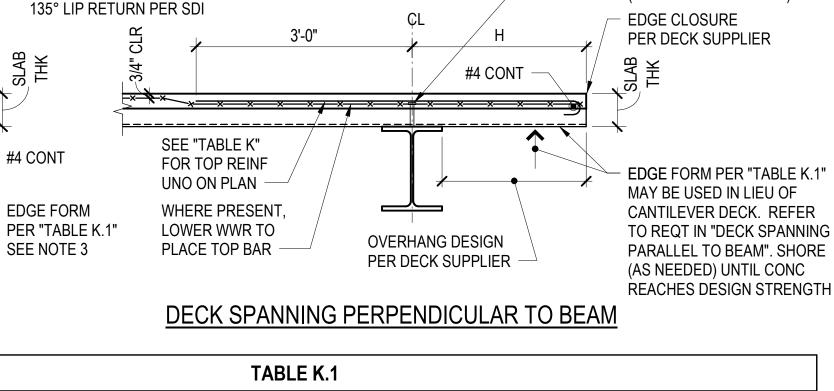
#### NOTES:



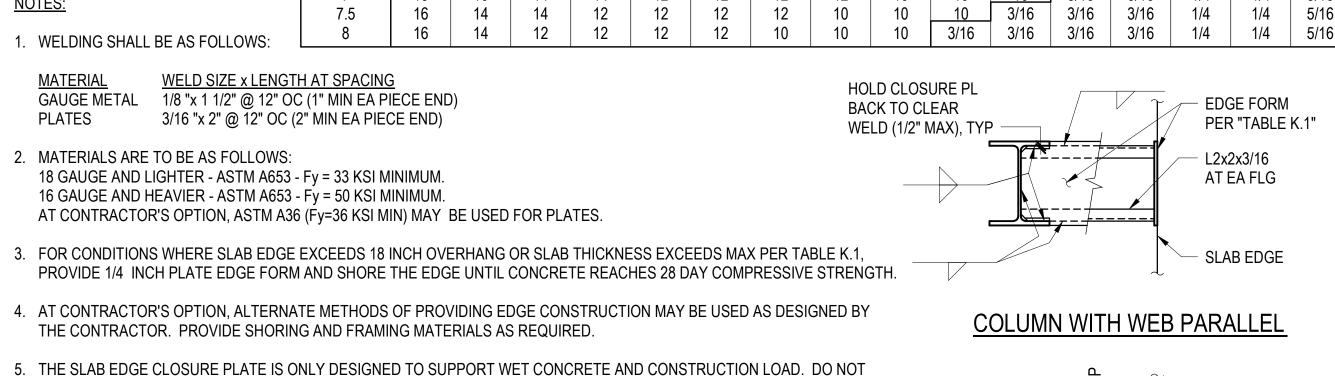
TYPICAL DECK EDGE CONDITIONS

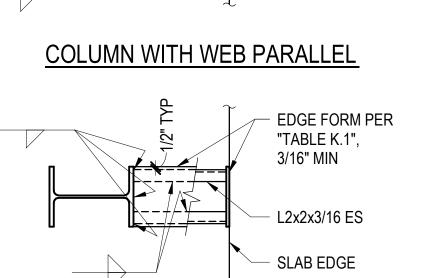
10. CONSTRUCTION LOAD AT EDGE FORM SHALL NOT EXCEED 20 PSF.

11. SEE "TYPICAL EXTENDED SLAB ON DECK EDGE" DETAIL.



							TA	BLE K.1								
MAX SLAB				SLAB	EDGE CI	OSURE	PLATE G	AUGE / T	HICKNES	S AT DEC	CK PARA	LLEL TO	BEAM			
THICKNESS								OVERHA	ANG (IN)							
(IN)	0	1	2	3	4	5	6	7	8	9	10	11	12	14	16	18
4	20	20	20	18	16	16	16	14	14	12	12	10	10	3/16	3/16	1/4
4.5	20	20	20	18	16	16	16	14	12	12	12	10	3/16	3/16	1/4	1/4
5	20	20	18	18	16	16	14	14	12	12	10	10	3/16	3/16	1/4	1/4
5.5	20	18	18	16	16	14	14	12	12	12	10	10	3/16	3/16	1/4	1/4
6	20	18	16	16	14	14	12	12	12	12	10	10	3/16	3/16	1/4	1/4
6.5	18	16	16	14	14	12	12	12	12	10	10	3/16	3/16	3/16	1/4	5/16
7	18	16	14	14	12	12	12	12	10	10	10	3/16	3/16	1/4	1/4	5/16
7.5	16	14	14	12	12	12	12	10	10	10	3/16	3/16	3/16	1/4	1/4	5/16
8	16	14	12	12	12	12	10	10	10	3/16	3/16	3/16	3/16	1/4	1/4	5/16
						•				•	•	•			•	,.





TYPICAL STEEL **DECK DETAILS** 

COORD STUD PLACEMENT

W/ EDGE FORM. NOTCH

(1/2" MAX CLR TO STUD)

FORM AS REQD, TYP

S4.14

TYPICAL DECK SUPPORT AT CONCRETE

Ldh

2. CONTRACTOR TO COORDINATE REINF AND ANCHOR / EMBED PLACEMENT.

3. AT CONTRACTOR'S OPTION, FOR DECK PARALLEL TO WALL CONDITION, IT IS

ACCEPTABLE TO SHORE DECK AT EDGES UNTIL CONCRETE REACHES DESIGN

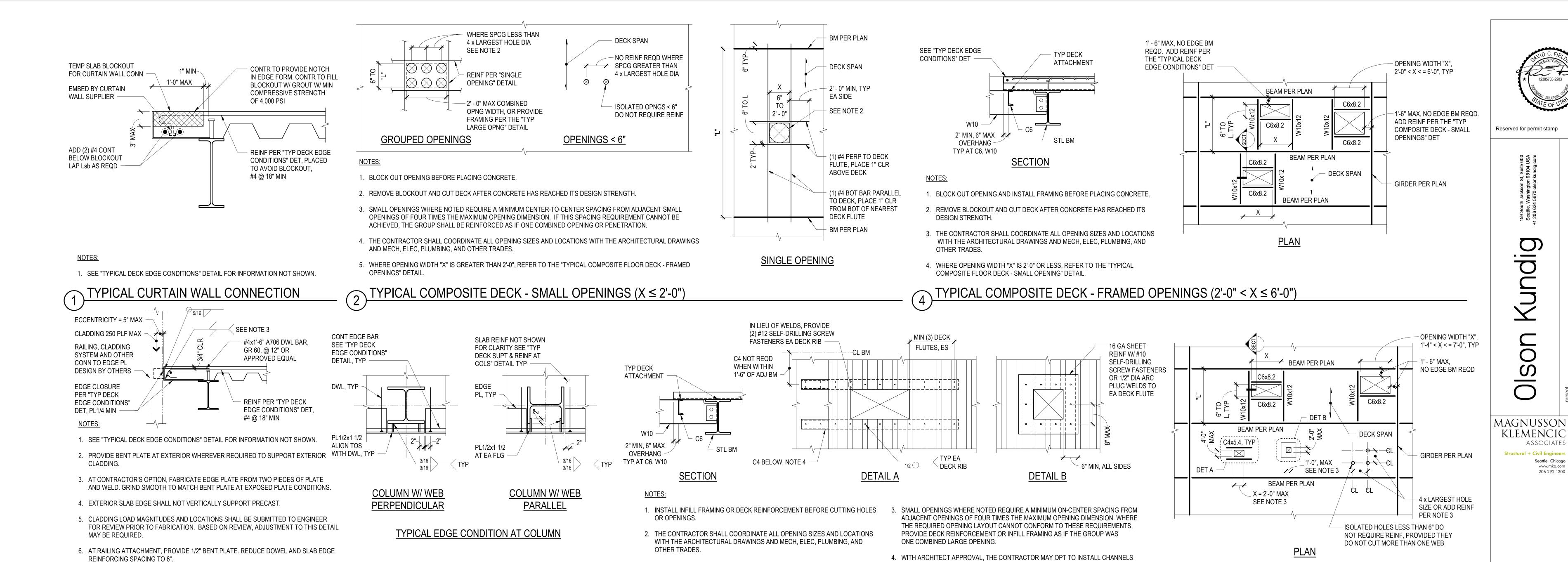
COMPRESSIVE STRENGTH IN LIEU OF PROVIDING L4x4 AND DICAS / EMBEDS. PROVIDE

4. ANCHORS SHALL BE HILTI KWIK BOLT TZ, SIMPSON STRONG TIE STB2, OR APPROVED

COLUMN WITH WEB PERPENDICULAR

TYPICAL EDGE CONDITION AT COLUMN SEE NOTE 6

- 1. FIELD INSTALL BENT PLATE WHERE REQUIRED TO SATISFY ARCHITECTURAL TOLERANCES.
- ARCHITECTURALLY EXPOSED CONDITIONS.



TYPICAL ROOF DECK OPENINGS  $(X \le 7'-0")$ 

1. SEE "TYPICAL DECK EDGE AT EXTERIOR CLADDING OR RAILING" DETAIL FOR

2. SEE "TYPICAL TYPE C1 - SINGLE PLATE SHEAR CONNECTION" DETAIL FOR

BOLTS, PLATE AND WELDS. HOLES SHALL BE STANDARD ROUND HOLES (STD).

3. IF BACKSPAN OR SPANDREL BEAM ARE LESS THAN W12, NOTIFY ENGINEER OF

INFORMATION NOT SHOWN.

RECORD FOR REVIEW.

ON TOP OF DECK WITH EQUIVALENT ARC PLUG WELDS OR SCREW FASTENERS

WELD PL TO \ 1/4 \ \ 1 1/2

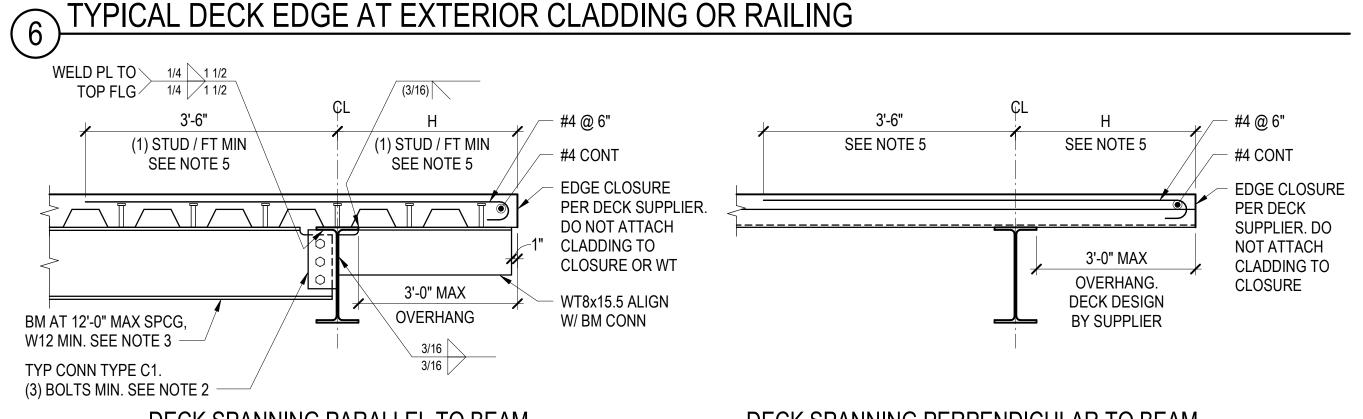
3'-6"

(1) STUD / FT MIN

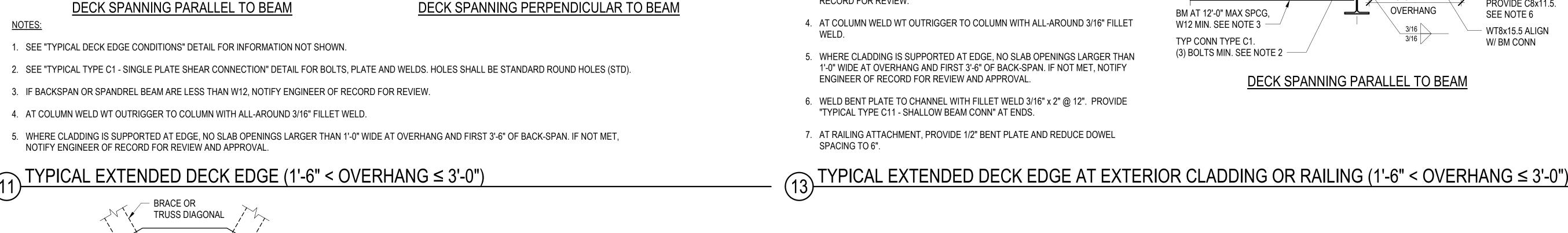
SEE NOTE 5

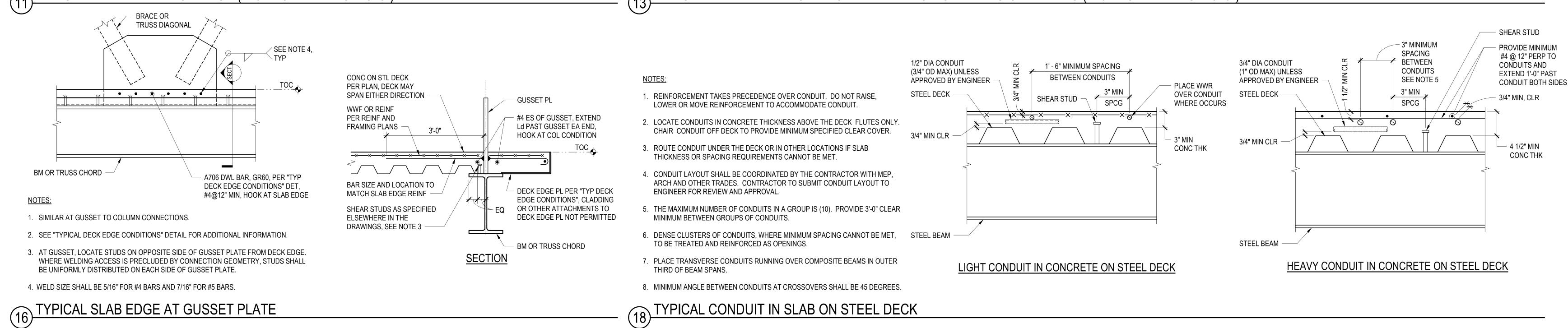
TOP FLG/

#4 @ 6"



#### DECK SPANNING PERPENDICULAR TO BEAM





S4.15

(1) STUD / FT AT WT & W12

SEE NOTE 5

3'-0" MAX

#4x1'-6" A706 DWL

BAR, GR 60, @ 12"

OR APPROVED

5/16

#4 CONT

BENT PL1/4

- WT8x15.5 @ 12'-0"

MAX SPCG. ALIGN

principal architect

project manager\_

checked by

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CONSTRUCTION

DOCUMENTS

11/18/2022

TYPICAL STEEL

**DECK DETAILS** 

no. date

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date 11/18/2022

W/ BM CONN

SPANDREL BM, W12 MIN. SEE NOTE 3

EQUAL

WELD PL TO \ 1/4 \ 1/2

TYP (3) BOLT CONN

TYPE C1. SEE NOTE 2

SEE NOTE 5

**DECK SPANNING PERPENDICULAR TO BEAM** 

TOP FLG /

 $W12x14 AT L \le 8'-0"$ 

TYP (2) BOLT

CONN TYPE C1

 $W12x19 AT L \le 12'-0"$ 

#4 @ 6" —

#4x1'-6" A706 DWL

BAR, GR 60, @ 12" OR

WHERE T < 4" & H > 30"

PROVIDE C8x11.5

WT8x15.5 ALIGN

APPROVED EQUAL.

SEE NOTE 7

BENT PL1/4,

SEE NOTE 7

SEE NOTE 6

W/ BM CONN

(1) STUD / FT MIN

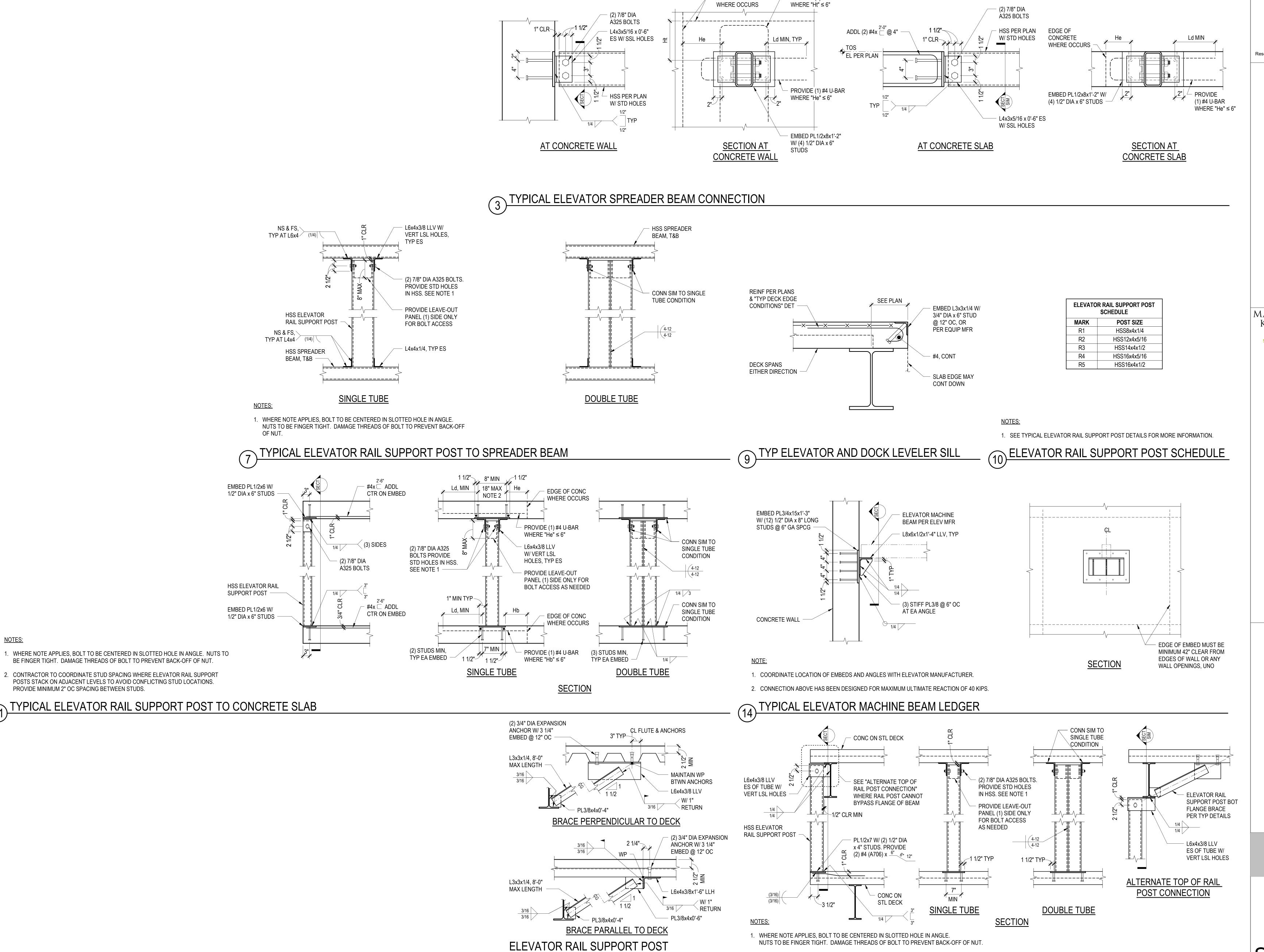
SEE NOTE 5

3'-0" MAX

**OVERHANG** 

 $\circ$ 

project:
SOMMET



BOTTOM FLANGE BRACING

EDGE OF CONC

PROVIDE (1) #4 U-BAR

TYPICAL ELEVATOR RAIL SUPPORT POST TO STEEL FRAMING

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Olson Kundig

SOMMET BLANC - A

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project manager

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job no. 20052

date 11/18/2022

revisions:

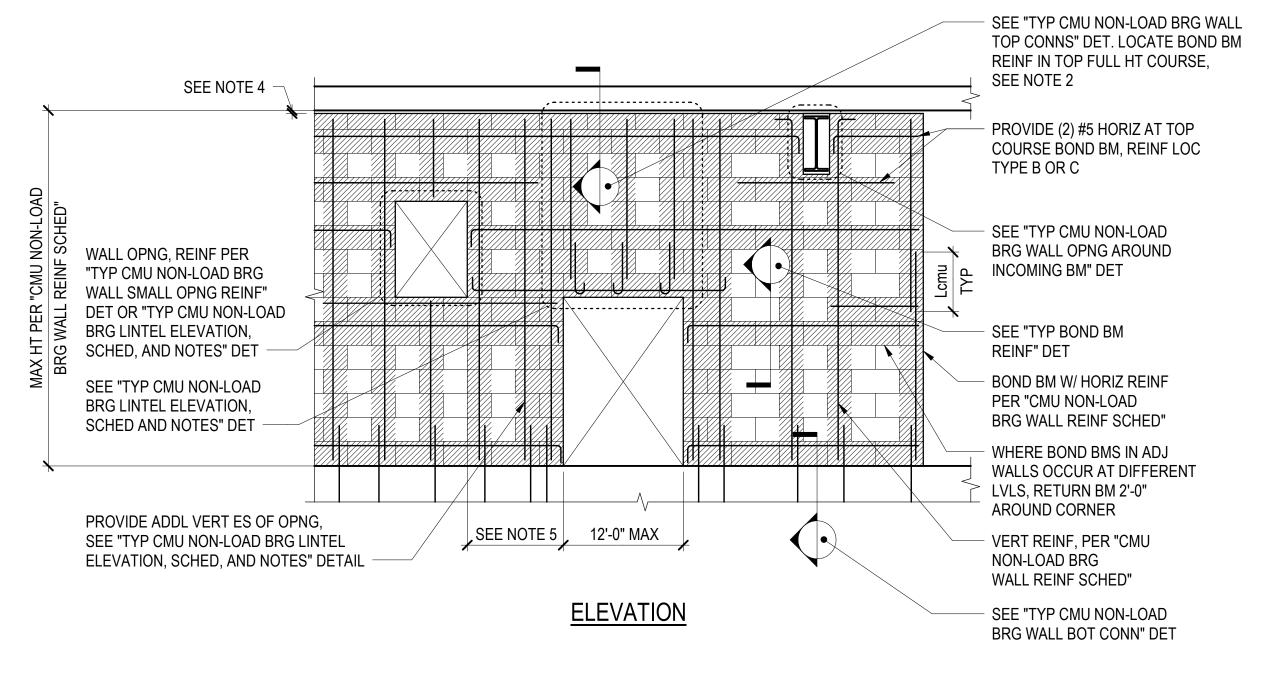
CONSTRUCTION DOCUMENTS

11/18/2022

1 1<u>1/18/2022 IFC</u>

no. date

TYPICAL STEEL DETAILS



	CMU NON-LOAD BEARING WALL REINFORCEMENT SCHEDULE													
NOMINAL	HORIZONTA	AL REINF	VERTICAL	REINF										
WALL THICKNESS (IN)	BOND BEAM REINF	MAX SPCG (IN)	REINF	MAX SPCG (IN)		MAXIMUM WALL HEIGHT (FT)	REMARKS							
8"	(1) #5	48	(1) #5	48	Α	13'-0"	TYPE B BAR LOCATION AT TOP AND BOTTOM OF WALL							
8"	(1) #5	48	(1) #5	32	Α	15'-0"	TYPE B BAR LOCATION AT TOP AND BOTTOM OF WALL							
8"	(1) #5	48	(1) #5	24	Α	18'-0"	TYPE B BAR LOCATION AT TOP AND BOTTOM OF WALL							
12"	(2) #5	48	(2) #5	48	С	17'-0"								
12"	(2) #5	48	(2) #5	24	С	22'-0"								

- 1. GROUT SOLID ONLY THOSE CELLS THAT CONTAIN REINFORCEMENT OR EMBEDDED ITEMS. PRIOR TO CONSTRUCTION, CONTRACTOR TO COORDINATE LOCATIONS WHERE POST INSTALLED CONNECTIONS TO WALLS WILL BE REQUIRED AND FULLY GROUT CELLS AS NEEDED FOR CONNECTIONS.
- 2. GROUT TOP COURSE SOLID. WHERE TOP COURSE IS NOT FULL BLOCK HEIGHT, GROUT COURSE BELOW 3. AT CONTRACTORS OPTION, IN PLACE OF WIRE JOINT REINFORCEMENT PROVIDE HORIZONTAL STEEL
- BLOCKS PROVIDE (2) #4 HORIZONTAL BARS TYPE C BAR LOCATION. 4. PROVIDE 1 INCH CLEAR MINIMUM, 1 1/2-INCHES CLEAR MAXIMUM BETWEEN TOP OF WALL AND BOTTOM OF

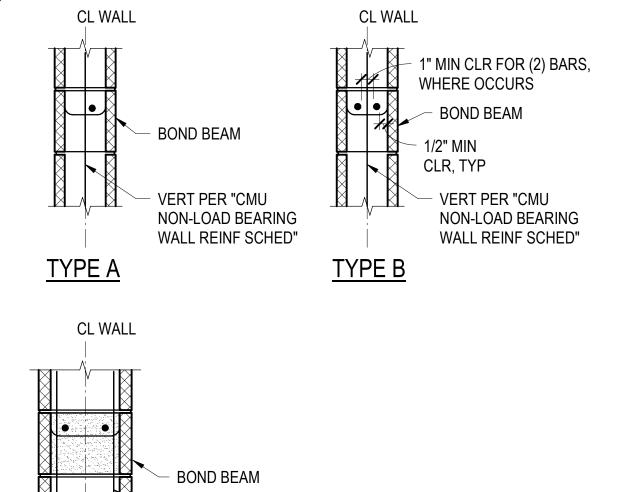
REINFORCEMENT IN A FULLY GROUTED BOND BEAM AT A MAXIMUM VERTICAL SPACING OF 96 INCHES

AT 8-INCH NOMINAL BLOCKS PROVIDE (1) #4 HORIZONTAL BAR TYPE A BAR LOCATION. AT 12-INCH NOMINAL

- PLATE, DECK, OR FIREPROOFING ON BEAMS. 5. MINIMUM SPACING BETWEEN TWO DOOR OPENINGS AND SMALL OPENINGS REQUIRED BY ARCHITECTURAL AND MEP IS 5'-4". MINIMUM SPACING BETWEEN OPENINGS AND ENDS OF WALLS IS 2'-8". CONTRACTOR SHALL
- SUBMIT CONDITIONS NOT MEETING THIS REQUIREMENT FOR ENGINEER TO REVIEW. 6. CONTRACTOR TO COORDINATE AND SUBMIT CMU WALL ELEVATIONS SHOWING ALL OPENINGS TO BE BUILT IN

#### A GIVEN WALL (ARCH AND MEP) FOR ENGINEER OF RECORD TO REVIEW PRIOR TO WALL CONSTRUCTION.

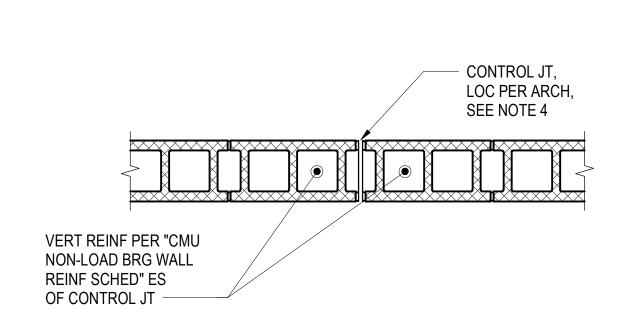
# TYPICAL CMU NON-LOAD BEARING WALL ELEVATION, SCHEDULE AND NOTES





VERT PER "CMU

**NON-LOAD BEARING** 



TYPE B

**BAR LOCATION TYPES** 

VERT ON CL

OFFSET HORIZ

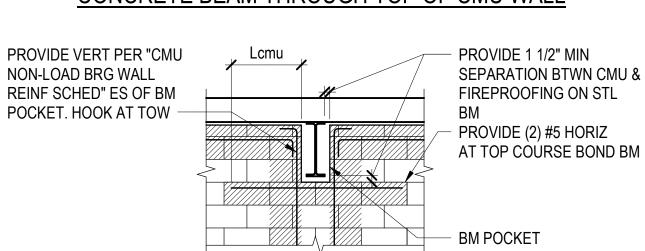
TYPE A

#### COURSES WITHOUT HORIZONTAL REINF

#### NOTES:

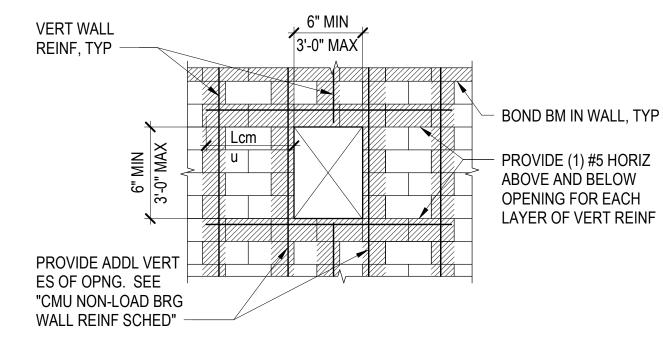
- 1. CONTROL JOINT SHALL BE CONSTRUCTED AS CONTINUOUS VERTICAL HEAD JOINTS USING FULL AND HALF MASONRY UNITS.
- MORTAR SHALL BE RAKED BACK 3/4-INCH AND FILLED WITH SEALANT PER ARCHITECTURAL DRAWINGS.

#### PROVIDE 1 1/2 " MIN **SEPARATION BTWN** CMU & CONC BM PROVIDE (2) #5 HORIZ AT TOP COURSE BOND BM **PROVIDE VERT** PER "CMU NON-LOAD **BRG WALL REINF** SCHED" ES OF BM POCKET BM POCKET. **HOOK AT TOW** CONCRETE BEAM THROUGH TOP OF CMU WALL



#### STEEL BEAM THROUGH TOP OF CMU WALL

#### TYPICAL CMU NON-LOAD BEARING WALL OPENING AROUND INCOMING BEAM



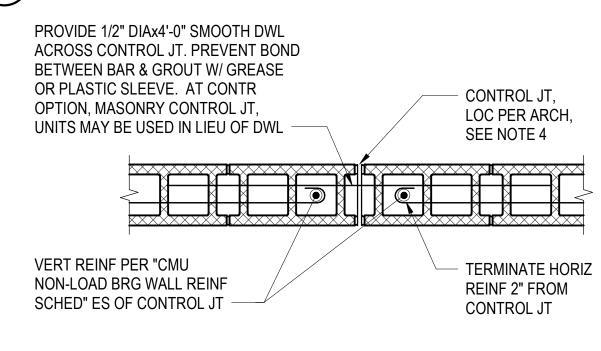
#### NOTES:

TYPE C

- 1. SEE "TYPICAL CMU NON-LOAD BEARING WALL ELEVATION, SCHEDULE, AND NOTES" FOR ADDITIONAL INFORMATION.
- CONDUITS AND PIPES SHALL BE PLACED THROUGH SLEEVES OR BLOCK OUTS PROVIDED DURING WALL
- 3. WALL OPENINGS SHALL BE A MINIMUM OF 1'-6" ABOVE ANY DOOR OR WINDOW OPENINGS AND SPACED AT LEAST THREE TIMES THE LARGEST OPENING.
- 4. WALL PENETRATIONS LESS THAT 6-INCH DIAMETER OR 6-INCH SQUARE THAT DO NOT DISRUPT REINFORCEMENT
- 5. CONTRACTOR TO COORDINATE AND SUBMIT CMU WALL ELEVATIONS SHOWING ALL OPENINGS TO BE BUILT IN A GIVEN WALL (ARCH AND MEP) FOR ENGINEER OF RECORD TO REVIEW PRIOR TO WALL CONSTRUCTION.

#### TYPICAL CMU NON-LOAD BEARING WALL SMALL OPENING REINFORCING

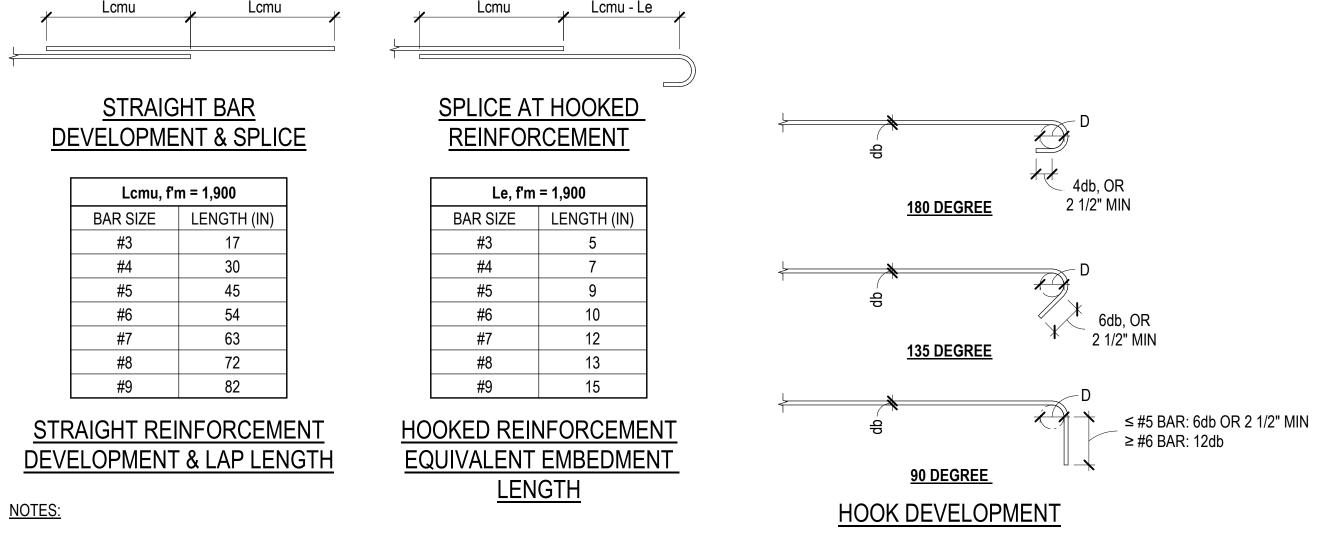
AND ARE SPACED AT LEAST 2'-0" APART DO NOT REQUIRE ADDITIONAL TRIM REINFORCEMENT.



#### COURSES WITH HORIZONTAL REINF

- LOCATION OF CONTROL JOINTS ARE SHOWN ON ARCHITECTURAL DRAWINGS. CONTROL JOINTS SHALL NOT OCCUR WITHIN 2'-8" OF WALL OPENINGS. REFER TO THE NATIONAL CONCRETE MASONRY ASSOCIATION TEK 10-2C "CONTROL JOINTS FOR CONCRETE MASONRY WALLS - EMPIRICAL METHOD" FOR RECOMMENDED CONTROL JOINT SPACING AND LOCATIONS.
- . ADDITIONAL PREFORMED GASKETS OR JOINT FILLINGS REQUIRED FOR FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS

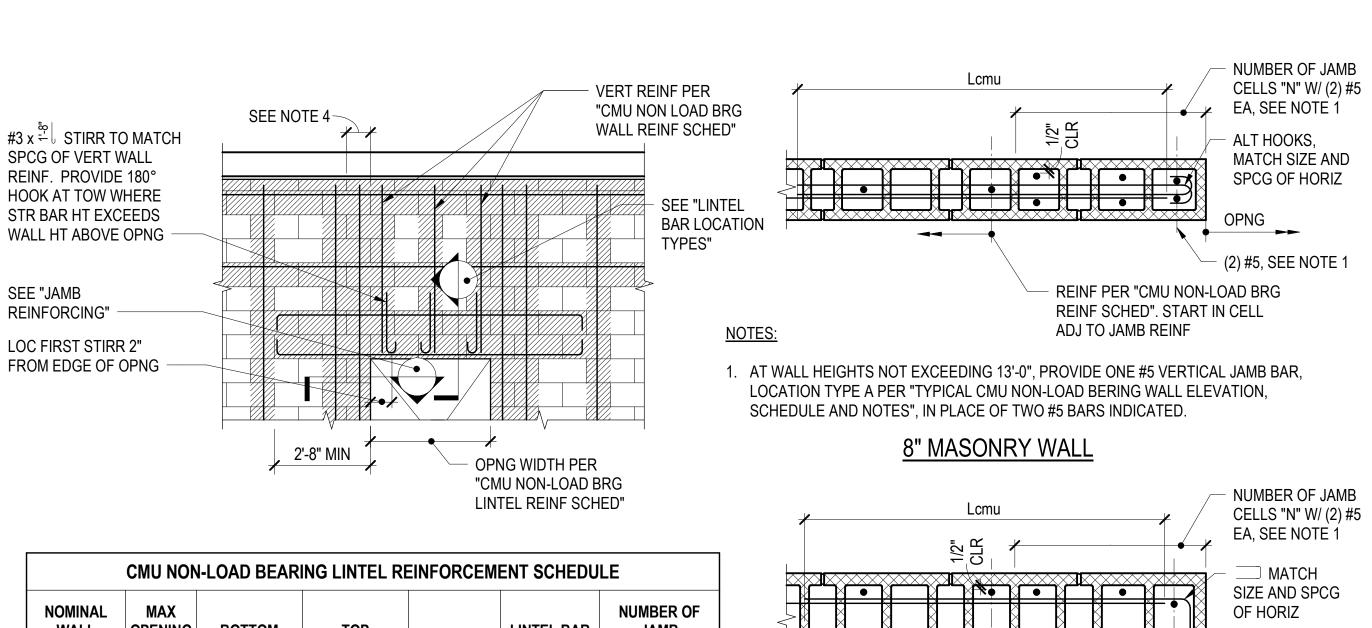
#### YPICAL CMU CONTROL JOINT

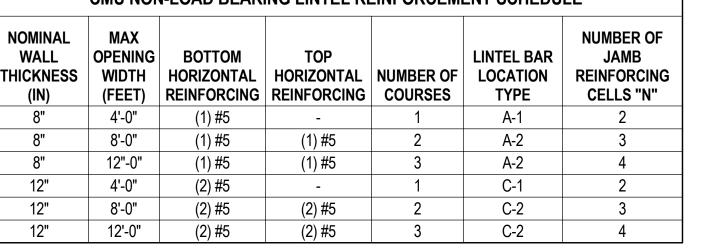


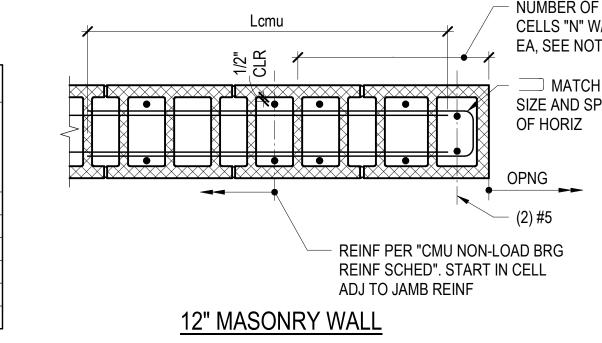
1. FOR EPOXY COATED BARS, INCREASE THE ABOVE EMBEDMENT LENGTHS BY 20 PERCENT

2. FULL DEVELOPMENT LENGTH FOR HOOKED REINFORCING BAR IS Lcmu - Le.

(17) CMU REINFORCING DEVELOPMENT AND SPLICE LENGTH TABLES







JAMB REINFORCING

TYPE A-2

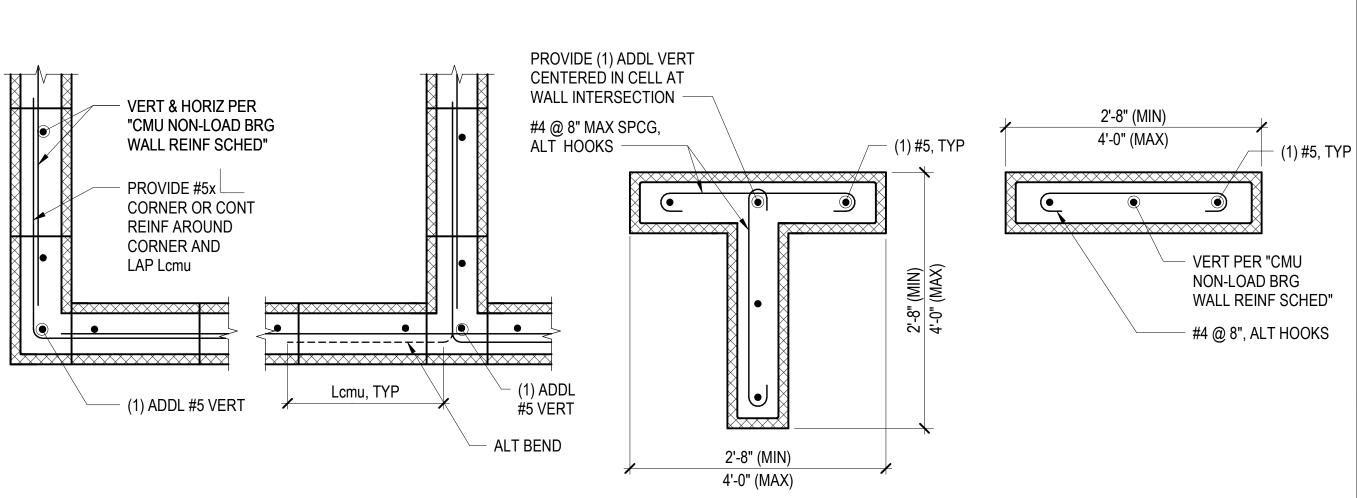
TYPE C-1

LINTEL BAR LOCATION TYPES



- 1. PROVIDE (1) COURSE BOND BEAM AT SILL CONDITIONS BELOW OPENINGS WITH (2) #5 HORIZONTALS. AT OPENINGS 10 FT WIDE OR GREATER, IF THE SILL IS MORE THAN 5 FT ABOVE THE SUPPORTING LEVEL, PROVIDE (2) COURSE BOND BEAM WITH (2) #5 HORIZONTALS IN EACH COURSE
- 2. SEE "TYPICAL CMU NON-LOAD BEARING WALL ELEVATION, SCHEDULE, AND NOTES FOR MORE INFORMATION.
- 3. CONTACT ENGINEER IF HEIGHT OF WALL ABOVE OPENING IS LESS THAN NUMBER OF COURSES CALLED FOR IN LINTEL REINFORCEMENT SCHEDULE. OF OPNG, TYP
- 4. PROVIDE TOP OF WALL CONNECTION PER "TYP CMU NON-LOAD BEARING WALL TOP CONNECTIONS" WITHIN 8 INCHES OF OPENING. FOR WALLS GREATER THAN 18'-0" TALL WITH OPENINGS GREATER THAN 4'-0", PROVIDE TWO TOP OF WALL CONNECTIONS WITHIN JAMB REINFORCEMENT WIDTH
- 5. CONTRACTOR TO COORDINATE AND SUBMIT CMU WALL ELEVATIONS SHOWING ALL OPENINGS TO BE BUILT IN A GIVEN WALL (ARCH AND MEP) FOR ENGINEER OF RECORD TO REVIEW PRIOR TO WALL CONSTRUCTION.

#### TYPICAL CMU NON-LOAD BEARING WALL LARGE OPENING LINTEL AND JAMB REINFORCING



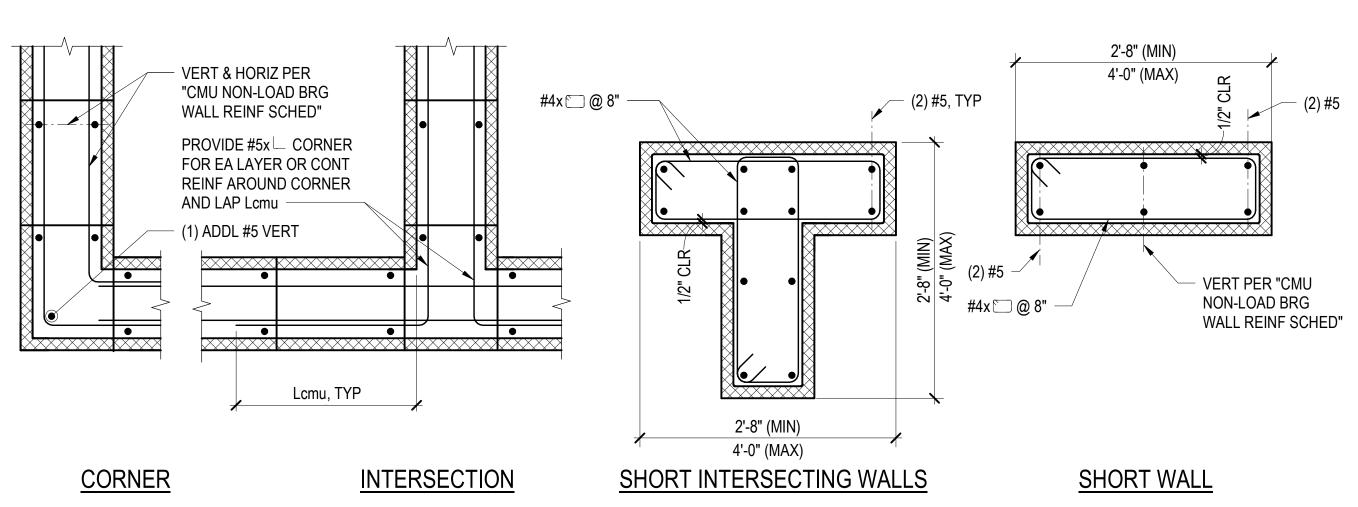
LINTEL BLK, DO

3" TO CL HORIZ

TYPE A-

NOT CONT LINTEL

**CORNER** SHORT INTERSECTING WALLS SHORT WALL INTERSECTION 8" MASONRY WALL

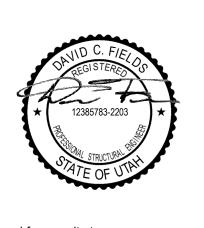


12" MASONRY WALL

1. BLOCK WEBS NOT SHOWN FOR CLARITY.

2. VERTICAL JAMB REINFORCEMENT WHERE REQUIRED BY "TYPICAL CMU NON-LOAD BEARING LINTEL ELEVATION. SCHEDULE AND NOTES" SHALL REPLACE TYPICAL "SHORT WALL" AND "SHORT INTERSECTING WALLS" VERTICAL REINFORCEMENT.

TYPICAL CMU NON-LOAD BEARING WALL REINFORCING AT CORNERS, INTERSECTIONS, AND SHORT WALLS



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OF FULLY

GROUTED

COURSES

VARIES

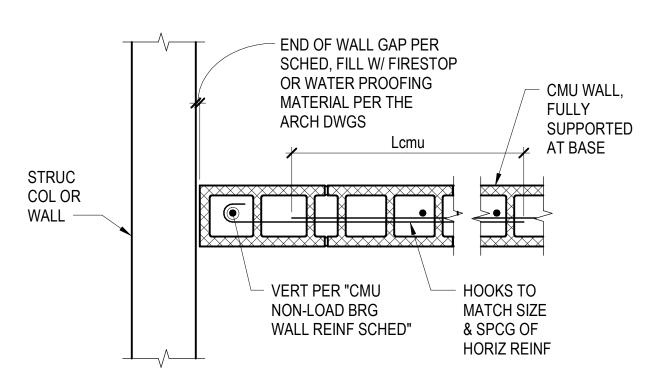
TYPE C-2

PER SCHED

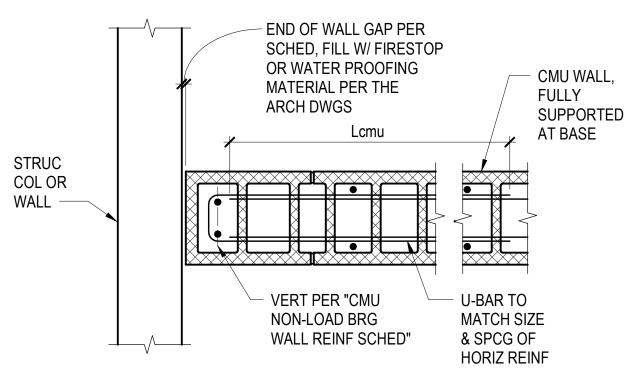
principal architect job no. 20052 date 11/18/2022 1 11/18/2022 IFC no. date

> CONSTRUCTION DOCUMENTS 11/18/2022

TYPICAL NON-LOAD **BEARING CMU** WALL DETAILS



#### 8" MASONRY WALL

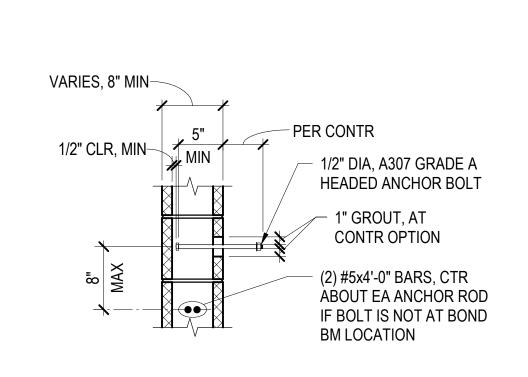


12"	<b>MASONRY</b>	WALI
	1717 10 01 11 11	* * * * * * * * * * * * * * * * * * * *

END OF WALL ABU STRUCTURE, GAP S	TTING TO CHEDULE
WALL LOCATION	GAP
BELOW GRADE	1"
LEVEL 1	1 1/2"
LEVEL 1 AT AB	2 1/2"
CONNECTOR	

- 1. DETAIL IS NOT APPLICABLE WHERE OPENINGS ARE WITHIN 2'-8" OF THE END OF WALL. CONTRACTOR SHALL SUBMIT CONDITIONS WITH OPENINGS FOR ENGINEER TO REVIEW.
- 2. WHERE A GAP IS NOT SCHEDULED, PROVIDE A GAP AND FLEXIBLE FILLER MATERIAL CAPABLE OF ACCOMMODATING BUILDING STORY DRIFTS AS NOTED IN THE "GENERAL NOTES".

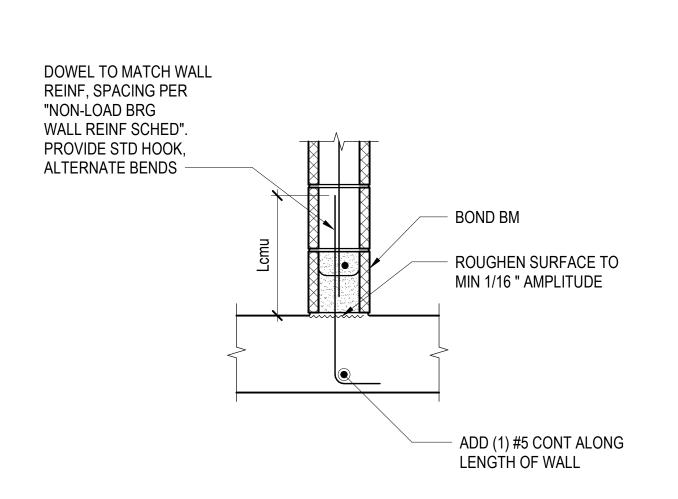
#### TYPICAL NON-LOAD BEARING CMU WALL ABUTTING STRUCTURAL ELEMENTS



NOTES:

1. MAKE BAR CONTINUOUS WHERE BOLTS ARE SPACEDAT 24" OR LESS. EXTEND 1'-0" PAST LAST BOLT.

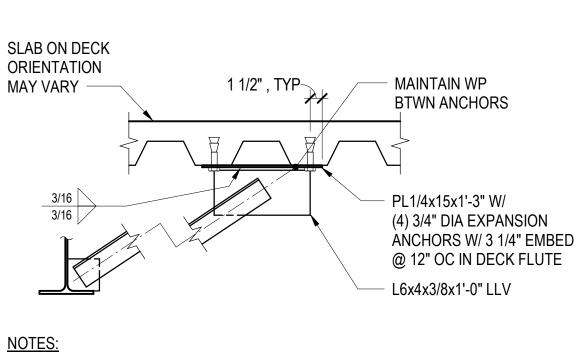
# TYPICAL ANCHOR BOLT AT CMU WALL



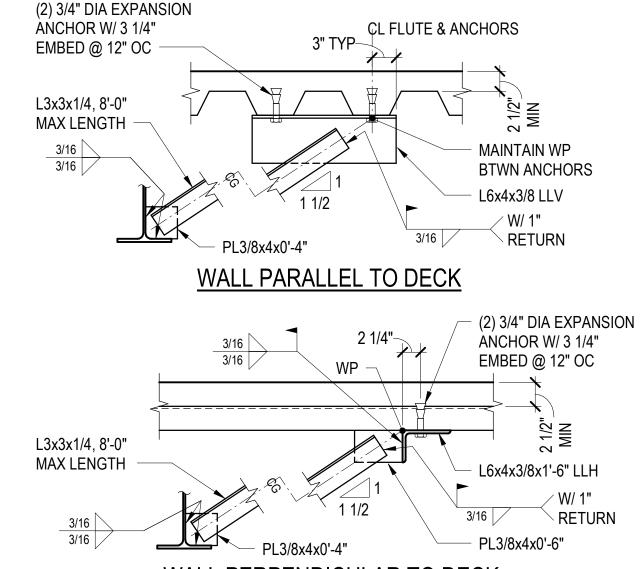
NOTES:

1. DOWEL SPACING TO MATCH VERTICAL REINFORCING.

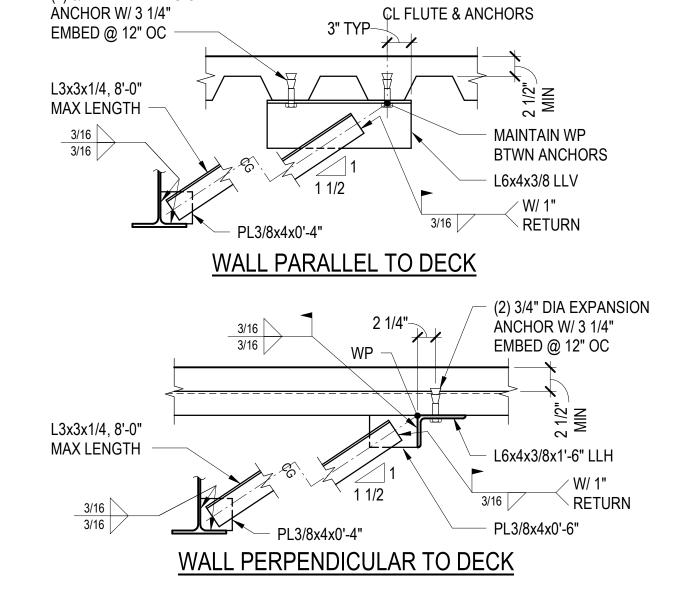
TYPICAL CMU NON-LOAD BEARING WALL BOTTOM CONNECTION



1. SEE WALL PARALLEL TO DECK CONDITION FOR ADDITIONAL INFORMATION. **BRACE AT EXTERIOR WALL** 



# YPICAL CMU BRACE TO UNDERSIDE OF CONCRETE ON STEEL DECK



#### TOP OF WALL CONNECTION SPACING SCHEDULE TOP TOP MAXIMUM WALL | MAXIMUM WALL CONNECTION CONNECTION THICKNESS HEIGHT SPACING "S1" **SPACING "S2"** 4'-0" 4'-0" 12" 4'-0" 3'-0" 2'-0" 22'-0" 3'-0"

#### NOTES:

WALL EXTENDS TO TYPICAL WALL TOP CONN AT NEXT FLOOR

(2) 5/8" DIA THREADED STUDS

@ 9" GA WELDED TO BOT OF

FLANGE. PROVIDE HORIZ LSL

PARALLEL TO WALL IN ANGLE

AT CONN TO UNDERSIDE OF BM

FINGER TIGHT NUT AND PEEN

THREADS TO PREVENT

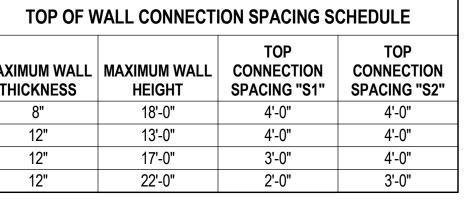
LOOSENING

1'-0" MAX

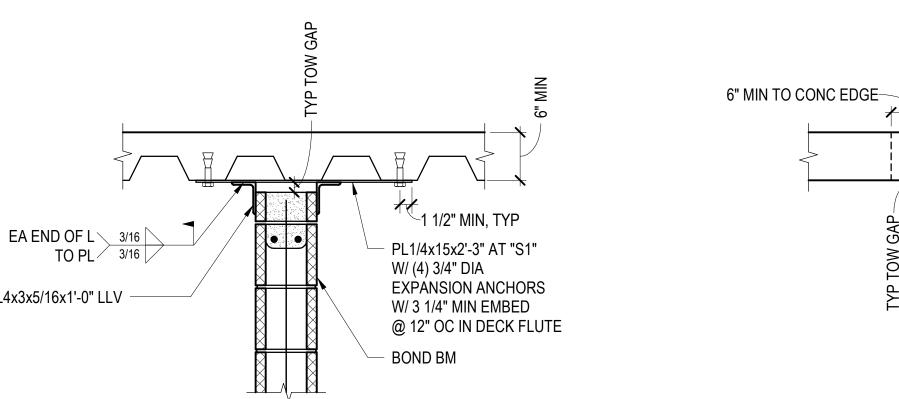
CONTINUOUS WALL PARALLEL TO WF BEAM

- 1. SPACING "S1" AND "S2" SHALL NOT EXCEED 4'-0".
- 2. SEE NOTE 4 OF "TYPICAL CMU NON-LOAD BEARING WALL LARGE OPENING LINTEL AND JAMB REINFORCING" DETAIL FOR TOP OF WALL CONNECTION REQUIREMENTS AT EDGES OF LARGE OPENINGS.

# TOP OF WALL CONNECTION



# SPACING SCHEDULE

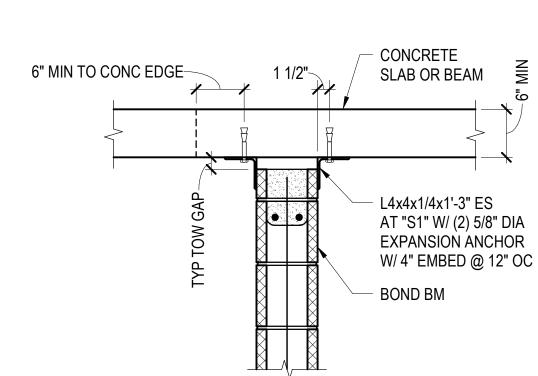


#### NOTES:

L4x3x5/16x1'-0" LLV

1. EXPANSION ANCHORS TO BE LOCATED MINIMUM 6" FROM EDGE OF CONCRETE IN ANY DIRECTION.

STEEL DECK PARALLEL TO WALL



1. SEE "TYPICAL CMU NON-LOAD BEARING WALL ELEVATION, SCHEDULE AND NOTES"

2. WHERE FIREPROOF, ACOUSTIC, OR OTHER FILLER IS REQUIRED PER ARCHITECTURE,

4. SEE "TOP OF WALL CONNECTION SPACING SCHEDULE" FOR SPACING REQUIREMENTS

PROVIDE FILLER WITH MINIMUM 50 PERCENT COMPRESSIBILITY.

3. FIREPROOFING REMOVED OR DAMAGED BY INSTALLATION OF TOP OF WALL

5. TYPICAL EXPANSION ANCHOR SHALL BE HILTI KWIK BOLT TZ OR APPROVED

6. AT CONTRACTORS OPTION, ALTERNATE TOP OF WALL CONNECTIONS PROVIDING

EQUIVALENT OUT OF PLANE SUPPORT AND ALLOWING VERTICAL AND IN PLANE

MOVEMENT OF THE STRUCTURE RELATIVE TO THE WALL MAY BE SUBSTITUTED

TOP OF WALL CONN GENERAL NOTES

THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS

WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP

#### NOTES:

NOTES:

"S1" AND "S2".

**EQUIVALENT** 

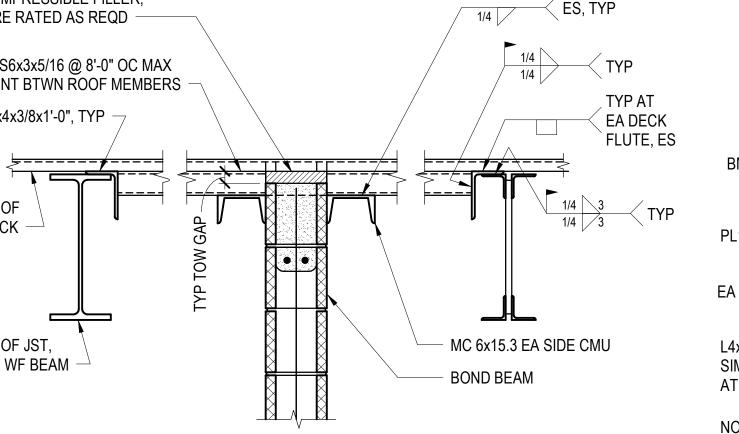
FOR TYPICAL TOP OF WALL GAP.

CONNECTIONS SHALL BE REPLACED.

DRAWING PRODUCTION AND FIELD USE.

1. THIS DETAIL IS NOT TO BE USED AT POST-TENSIONED SLABS OR AT POST-TENSIONED BEAMS NEAR TENDON LOW POINTS

WALL AT CONCRETE SLAB OR BEAM



WALL PERPENDICULAR TO STEEL ROOF DECK

1. SEE "TYPICAL CMU NON-LOAD BEARING WALL OPENING AROUND INCOMING BEAM".

WALL PARALLEL TO STEEL ROOF DECK

TYPICAL CMU NON-LOAD BEARING WALL TOP CONNECTIONS

COMPRESSIBLE FILLER, FIRE RATED AS REQD

L6x4x3/8x1'-0", TYP

ROOF DECK -

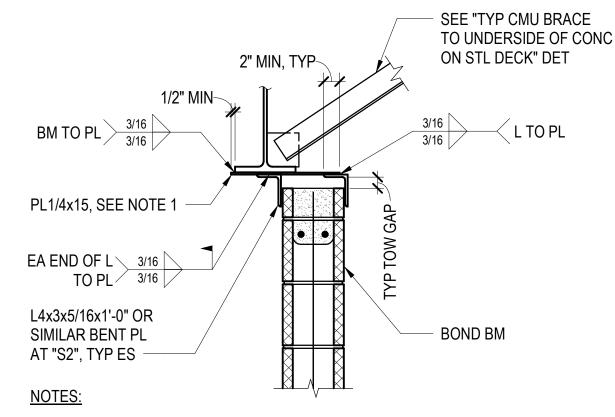
ROOF JST,

NOTES:

OR WF BEAM

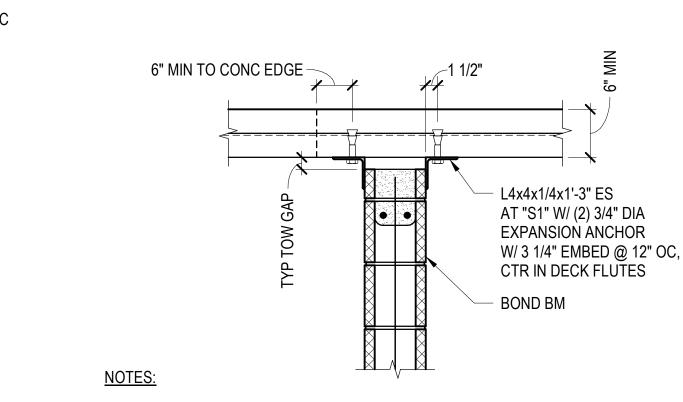
HSS6x3x5/16 @ 8'-0" OC MAX

CONT BTWN ROOF MEMBERS



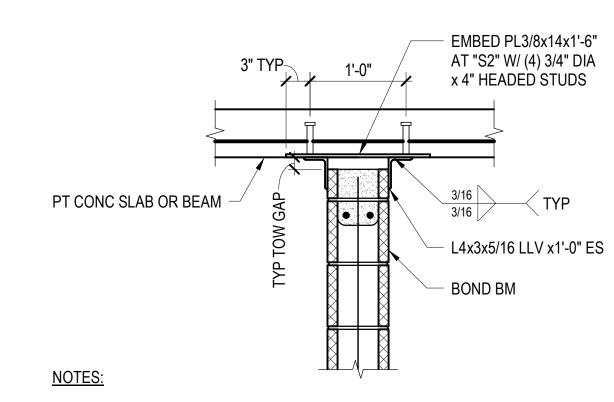
FAR EDGE OF WALL SIMILAR TO "WALL AT CONCRETE SLAB EDGE" WALL OFFSET FROM STEEL BEAM

1. AT CONTRACTORS OPTION, PROVIDE CONTINUOUS BENT PLATE OVER



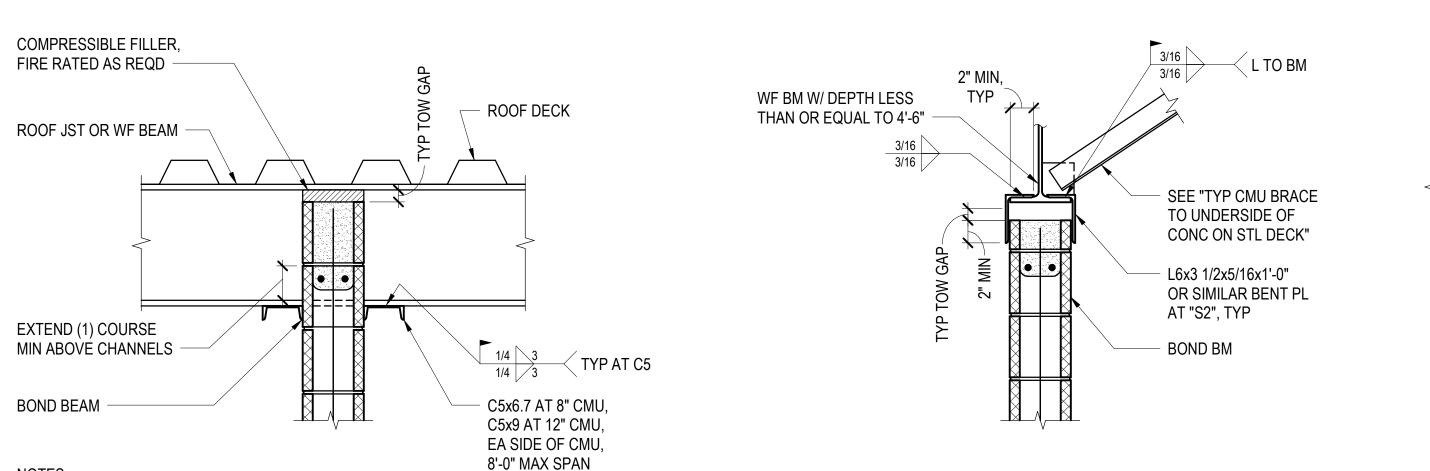
1. AT EXTERIOR WALLS, PROVIDE CONNECTION SIMILAR TO "STEEL DECK AT PARALLEL WALL" WITH PL1/4 AND (4) 3/4" DIA EXPANSION ANCHORS.

STEEL DECK PERPENDICULAR TO WALL



1. AT CONTRACTORS OPTION, THIS DETAIL CAN BE USED AT MILD CONCRETE SLABS OR BEAMS.

WALL AT POST-TENSIONED **CONCRETE SLAB OR BEAM** 



SEE "TYP CMU BRACE

TO UNDERSIDE OF

CONC ON STL DECK"

PROVIDE BRACE

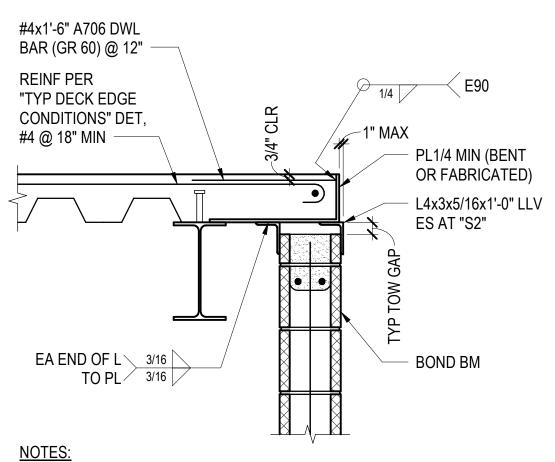
AT EA BENT PLATE

**GROUTED IN CELL** 

BENT PL5/16x4x1'-3" WIDE

AT "S2" W/ VERT LSL AND (2) 1/2" DIA AR @ 12" OC

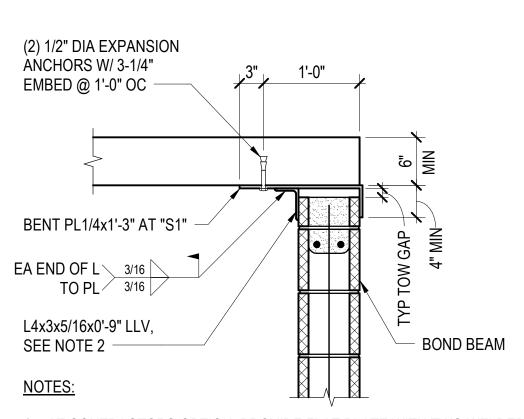
WALL CENTERED ON STEEL BEAM



1. SEE "TYPICAL DECK EDGE CONDITIONS" DETAIL FOR INFORMATION NOT SHOWN.

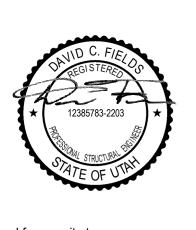
2. THIS DETAIL IS NOT TO BE USED WITH GAUGE METAL EDGE PLATES. WALL AT UNDERSIDE OF

CONCRETE ON STEEL DECK EDGE



- 1. AT CONTRACTORS OPTION, PROVIDE FLAT PLATE WITH TWO WELDED ANGLES SIMILAR TO "WALL OFFSET FROM STEEL BEAM"
- 2. AT NOMINAL WALL THICKNESS GREATER THAN 8", CENTER ANGLE BETWEEN

WALL AT CONCRETE SLAB EDGE



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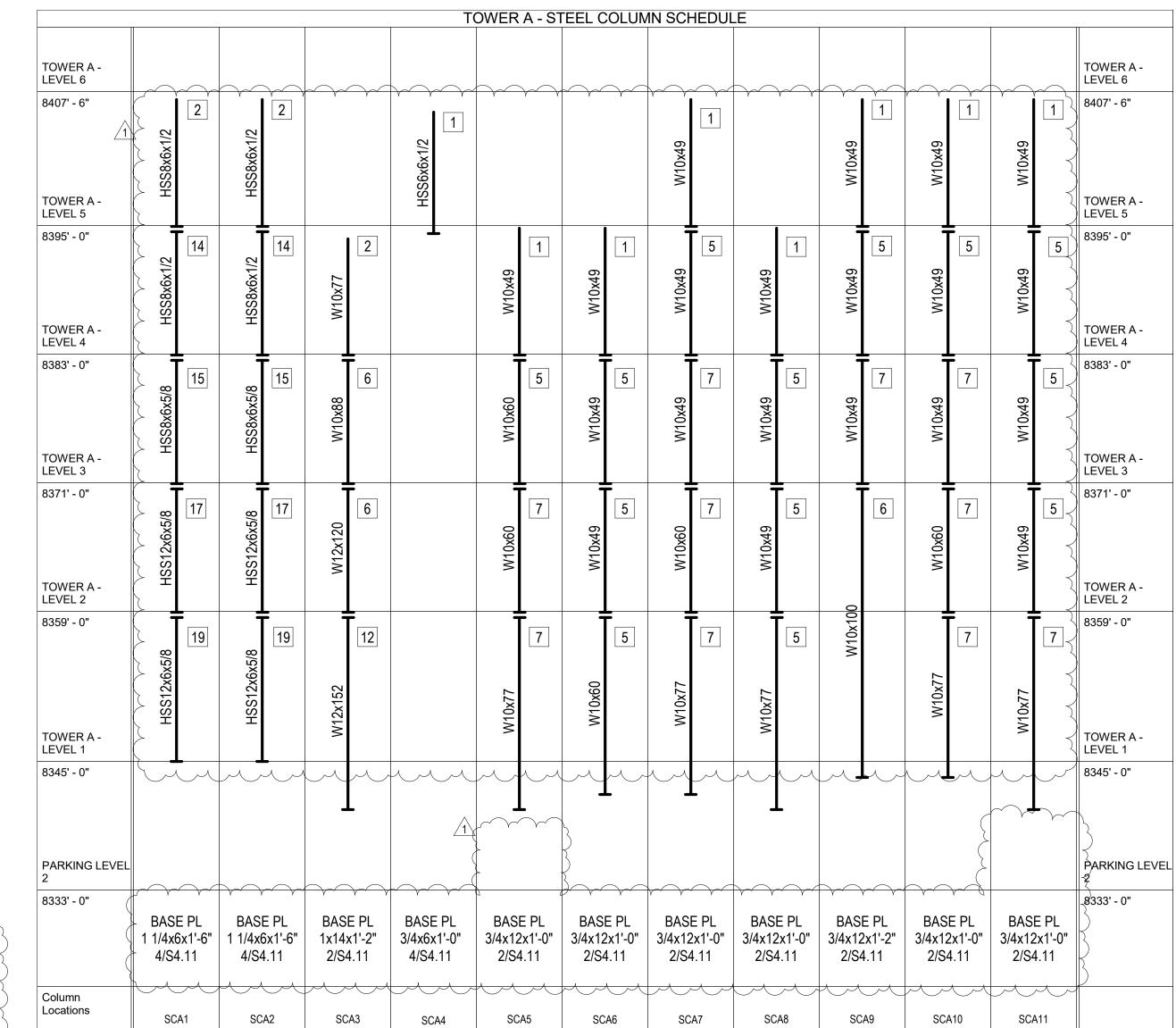
principal architect project manager checked by job no. 20052 date 11/18/2022 1 11/18/2022 IFC no. date

> CONSTRUCTION DOCUMENTS 11/18/2022

TYPICAL NON-LOAD **BEARING CMU** WALL DETAILS

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#### TOWER A - ROOF STEEL COLUMN SCHEDULE

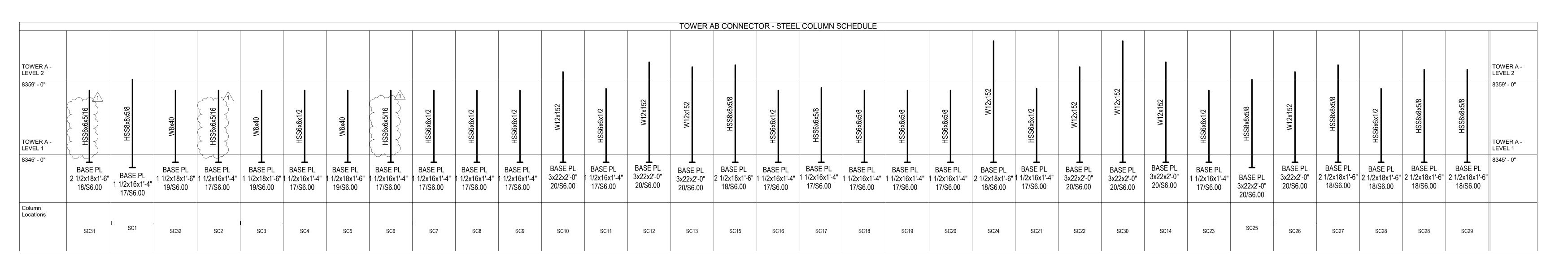


NOTES:

1. BASE PLATES SHALL HAVE Fy = 50 KSI, UNLESS NOTED OTHERWISE.

2. X INDICATES CONNECTION OF STEEL COLUMN TO CONCRETE SLAB.
SEE "TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL,
"TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, AND
"STEEL COLUMN SLAB PLATE SCHEDULE" ON \$4.11

#### TOWER A - STEEL COLUMN SCHEDULE



TOWER AB CONNECTOR - STEEL COLUMN SCHEDULE

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Olson

Project:
SOMMET BLANC - ABO
DEER VALLEY, UTAH

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ASSOCIATES

Structural + Civil Engineers
Seattle Chicago
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206 292 1200

principal architect_	
project manager_	
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checked by_	
job no	20052
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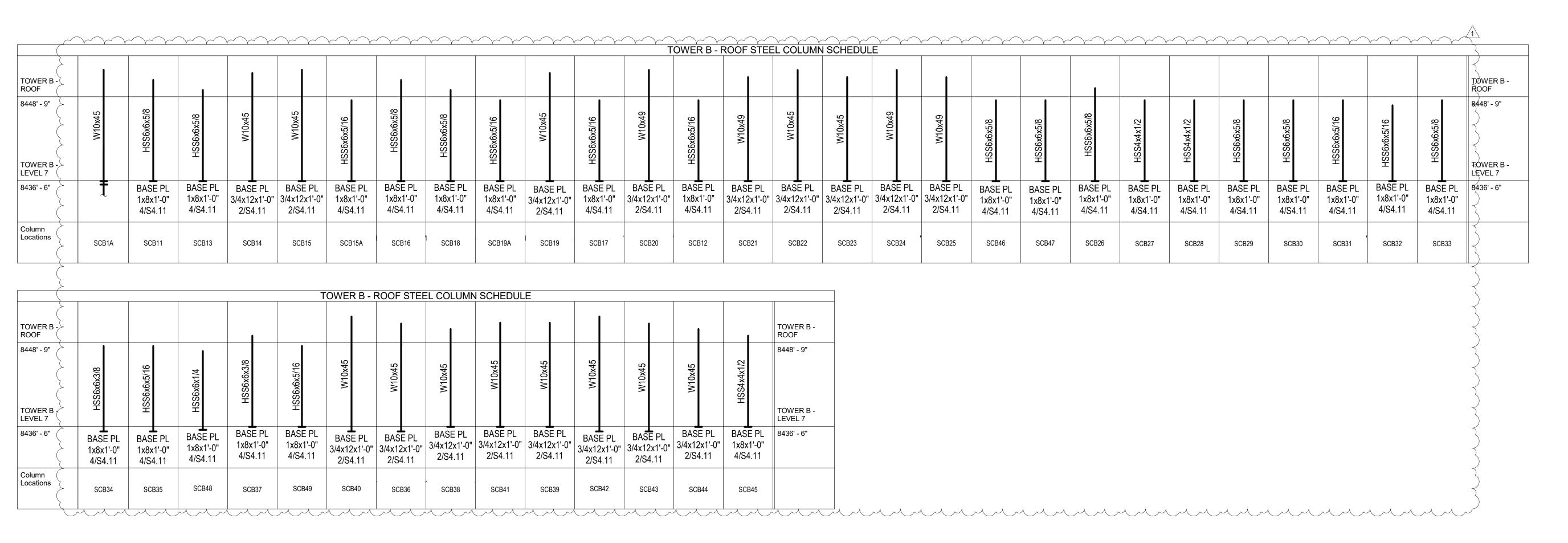
CONSTRUCTION DOCUMENTS 11/18/2022

1 11/18/2022 IFC

no. date

TOWER A STEEL COLUMN SCHEDULE

S4.A.10



TOWER B - ROOF STEEL COLUMN SCHEDULE

								TO	OWER	B-ST	EEL C	COLUM	IN SCI	HEDUL	.E							
TOWER B - LEVEL 7		<u>_</u> ]									<b>\</b>						\					TOWER B - LEVEL 7
8436' - 6" 1 TOWER B - LEVEL 6		W10x49	1 1	HSS8x6x1/2		HSS8x6x1/2	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x49	1	W10x77	2	8436' - 6" TOWER B - LEVEL 6
8424' - 0" TOWER B - LEVEL 5		W10x49	7	HSS8x6x1/2	14	HSS8x6x1/2	14	W10x49	5	W10x49	5	W10x49	5	W10x49	5	W10x49	5	W10x49	5	W10x112		8424' - 0" TOWER B - LEVEL 5
8412' - 0" TOWER B - LEVEL 4		W10x49	7	HSS12x6x1/2	15	HSS12x6x1/2	15	W10x49	7	W10x49	5	W10x49	7	W10x49	5	W10x49	5	W10x49	7	W12x120	8 4	8412' - 0" TOWER B - LEVEL 4
8400' - 0" TOWER B - LEVEL 3		W10x60	7	HSS12x6x1/2	18	HSS12x6x1/2	18	W10x60	7	W10x49	5	W10x60	7	W10x49	5	W10x49	7	W10x60	7	W12x152		8400' - 0" TOWER B - LEVEL 3
8388' - 0" TOWER B - LEVEL 2		W10x77	7	HSS12x6x5/8	18	HSS12x6x5/8	18	W10x68	6	W10x60	7	W10x68	7	W10x49	5	W10x60	7	W10x77	6	W12x152		8388' - 0" TOWER B - LEVEL 2
8376' - 0"		9	7	HSS14x6x5/8	18	HSS14x6x5/8	18	W10x112	6	W10x77	7	W10x112	6	W10x60	5	W10x88	7	W10x112	6	W12x170		8376' - 0"
TOWER B - LEVEL 1 8357' - 0" PARKING LEVEL 1 8345' - 0"		W12x136	-	HSS14x6x5/8	23				_		_				-							TOWER B - LEVEL 1 8357' - 0" PARKING LEV 1 8345' - 0"
PARKING LEVEL 2 8333' - 0"	B.	4x1	E PL 4x1'-3" I.11	1 1/2x	E PL 6x1'-8" 4.11	BASI 1 1/2x6 4/S4	6x1'-8"	BAS 3/4x12 2/S <sup>4</sup>	2x1'-0"	BAS 3/4x12 2/S4		BASI 3/4x12 2/S <sup>2</sup>	2x1'-2"	BASE 3/4x12x 2/S4	k1'-0"	BASI 3/4x12 2/S <sup>2</sup>	2x1'-0"	BAS 3/4x12 2/S <sup>4</sup>		1 1/2x	SE PL 14x1'=4'	PARKING LEV 2 8333' - 0"
Column Locations		SCI	B1	SC	CB2	sc	В3	SC	:B4	SC	:B5	sc	B6	SC	B7	sc	B8	SC	:B9	SCE	310	

NOTES:	}
1. BASE PLATES SHALL HAVE Fy = 50 KSI, UNLESS NOTED OTHERWISE.	3
2. X INDICATES CONNECTION OF STEEL COLUMN TO CONCRETE SLAB. SEE "TYPICAL TOP OF STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, "TYPICAL STEEL COLUMN SUPPORTING CONCRETE FRAMING" DETAIL, AND "STEEL COLUMN SLAB PLATE SCHEDULE" ON S4.11	,

TOWER B - STEEL COLUMN SCHEDULE



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Kundig Olson

MAGNUSSON KLEMENCIC ASSOCIATES Structural + Civil Engineers Seattle Chicago www.mka.com 206 292 1200

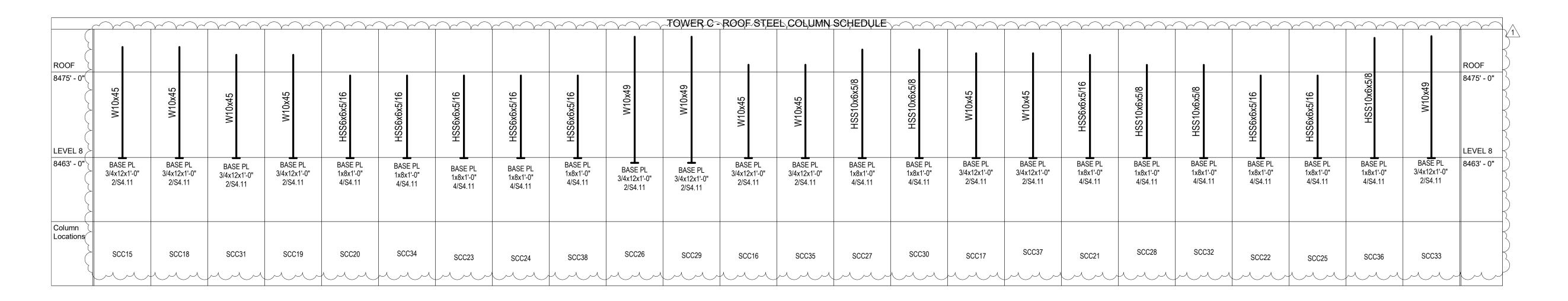
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project manager_	
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checked by_	
job no	20052
date	11/18/2022
revisions:	

CONSTRUCTION DOCUMENTS 11/18/2022

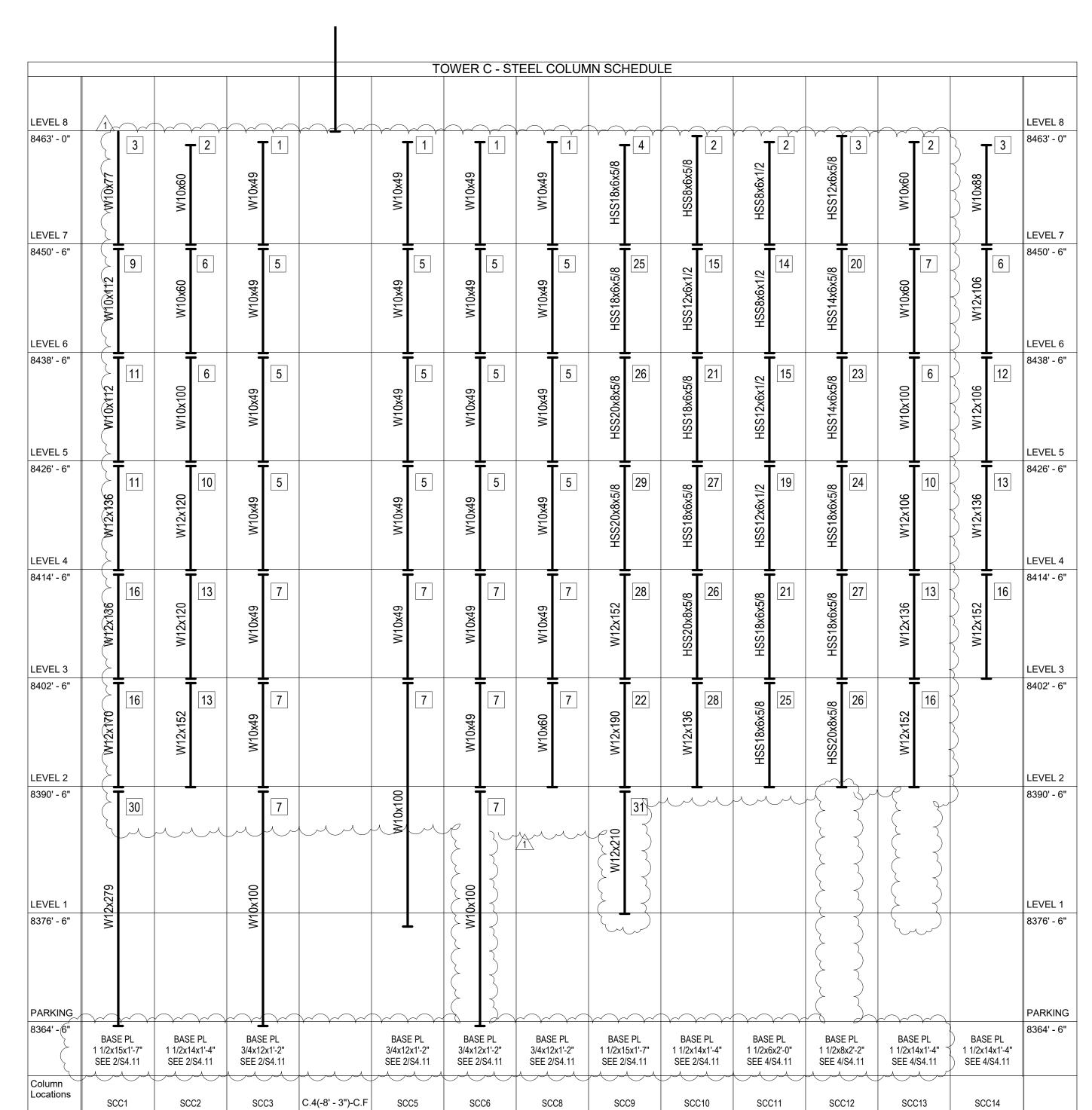
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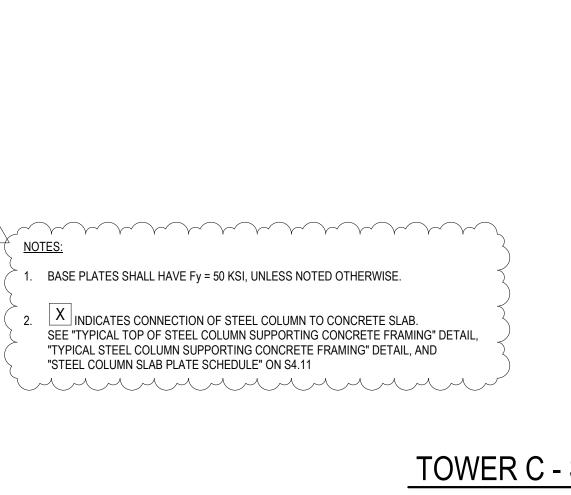
TOWER B STEEL COLUMN SCHEDULE

S4.B.10



TOWER C - ROOF STEEL COLUMN SCHEDULE





TOWER C - STEEL COLUM	MN SCHEDULE
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159 South Jackson St, Suite 6 Seattle, Washington 98104 U +1 206 624 5670 olsonkundig.c

Olson Kundig

	<u>u</u>	
MAGNUSSON KLEMENCIO ASSOCIATE		
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principal architect_	
project manager_	
_	Author
checked by_	Checker
job no	20052
date	11/18/2022
revisions:	

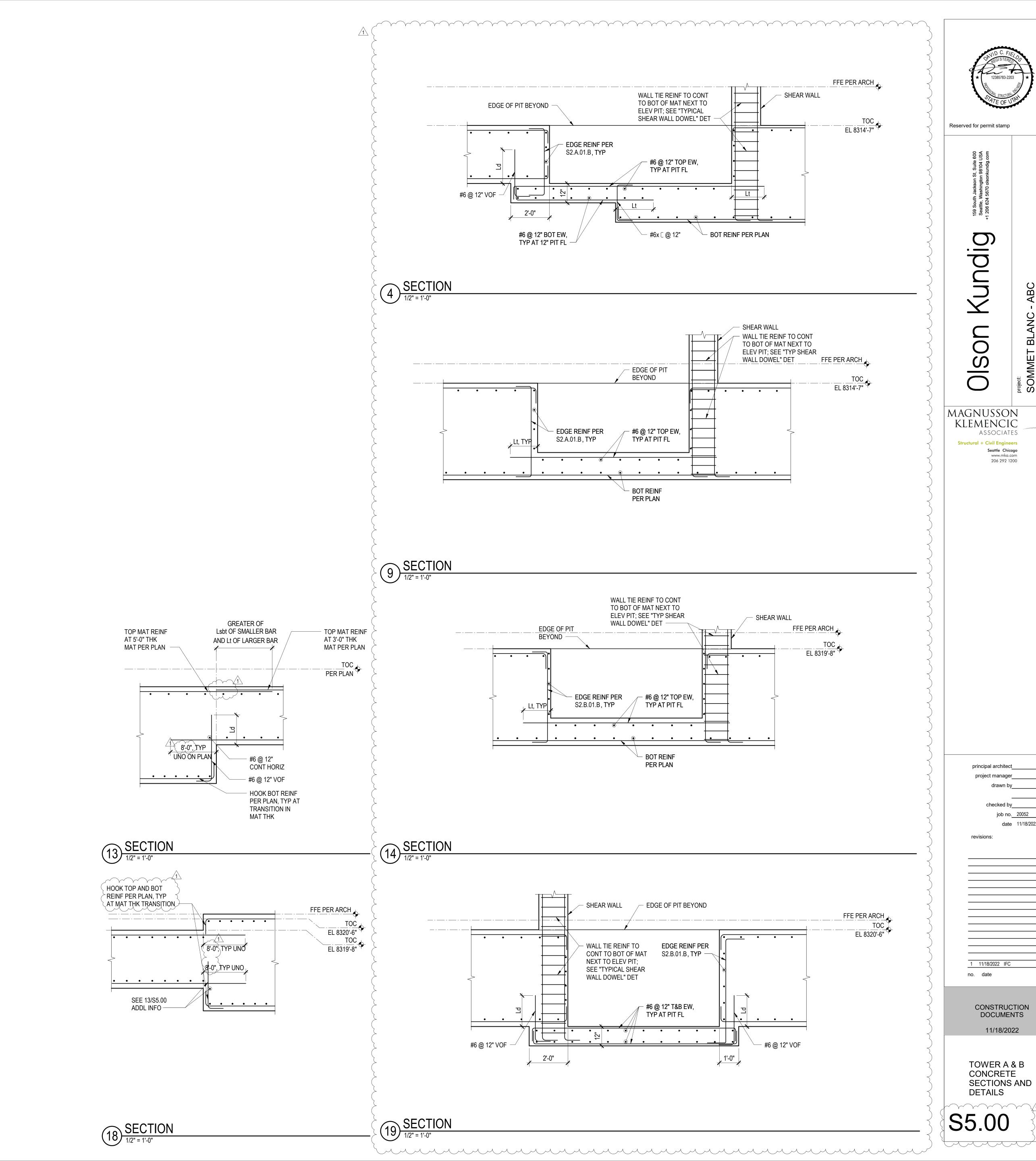
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no. date

TOWER C STEEL COLUMN SCHEDULE

S4.C.10



ABC

Project:
SOMMET BLANC DEER VALLEY, UTAH

date 11/18/2022

Kundig Olson

MAGNUSSON KLEMENCIC ASSOCIATES Structural + Civil Engineers

Seattle Chicago www.mka.com 206 292 1200

principal architect\_

date 11/18/2022

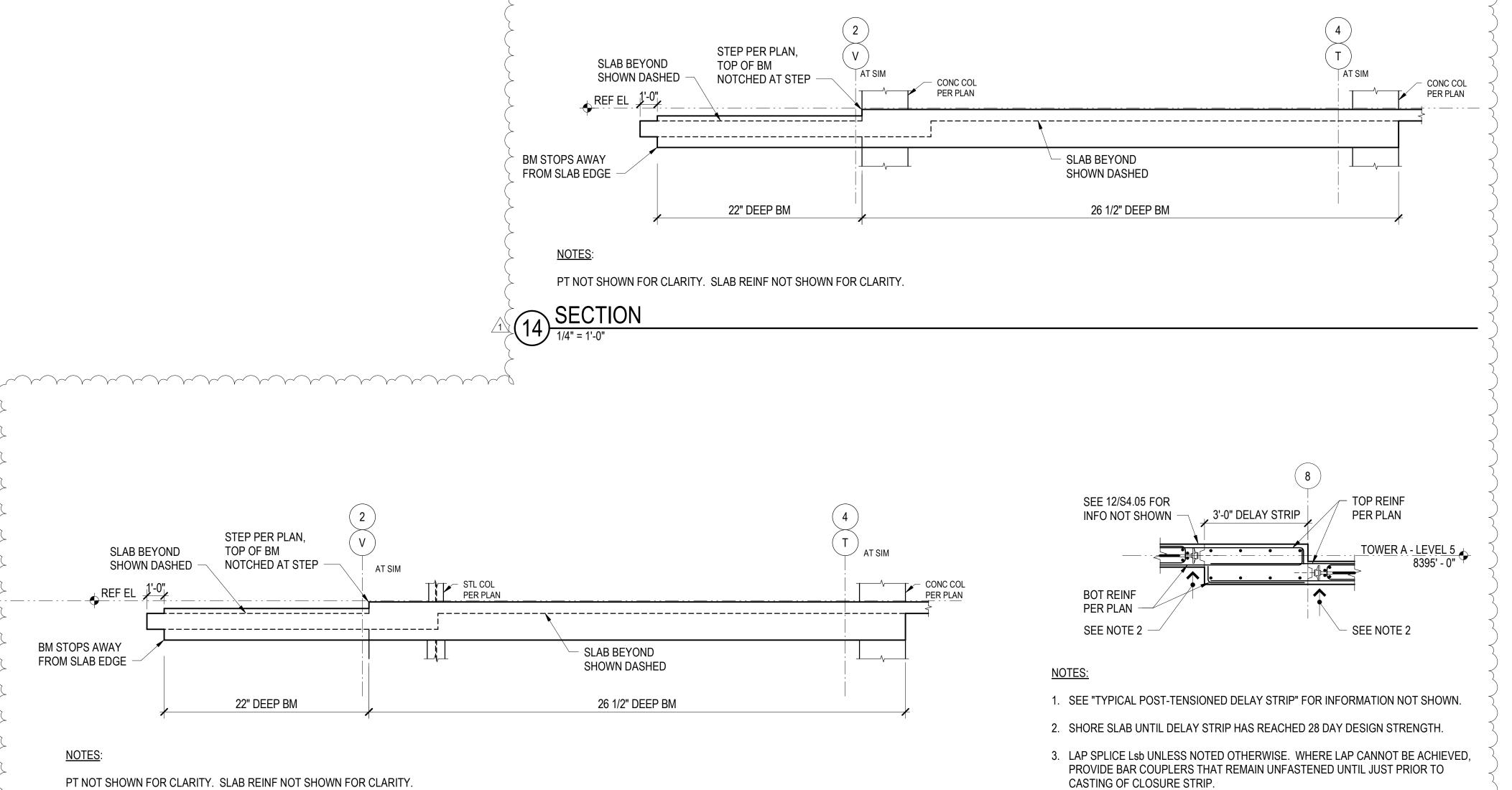
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11/18/2022

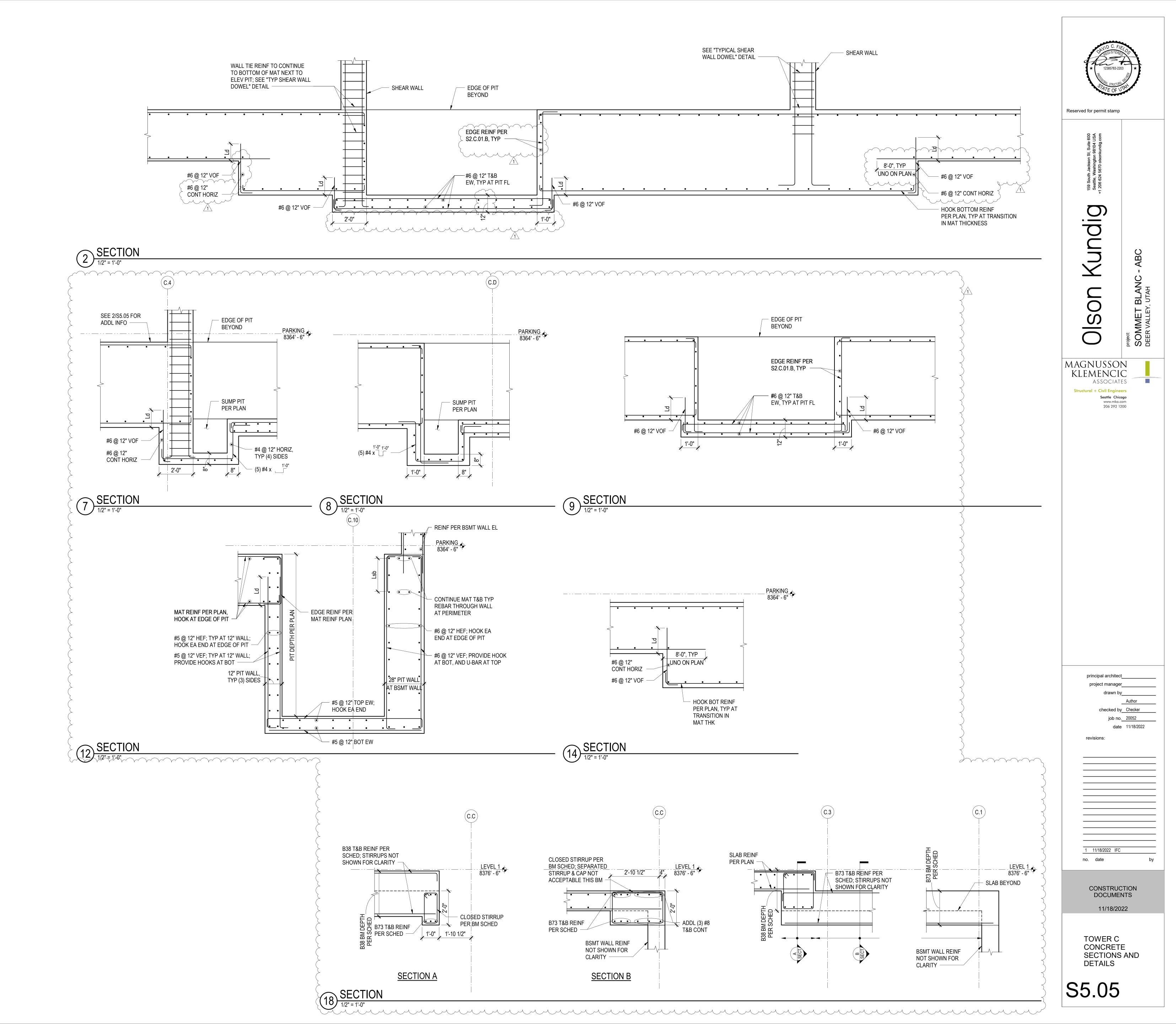
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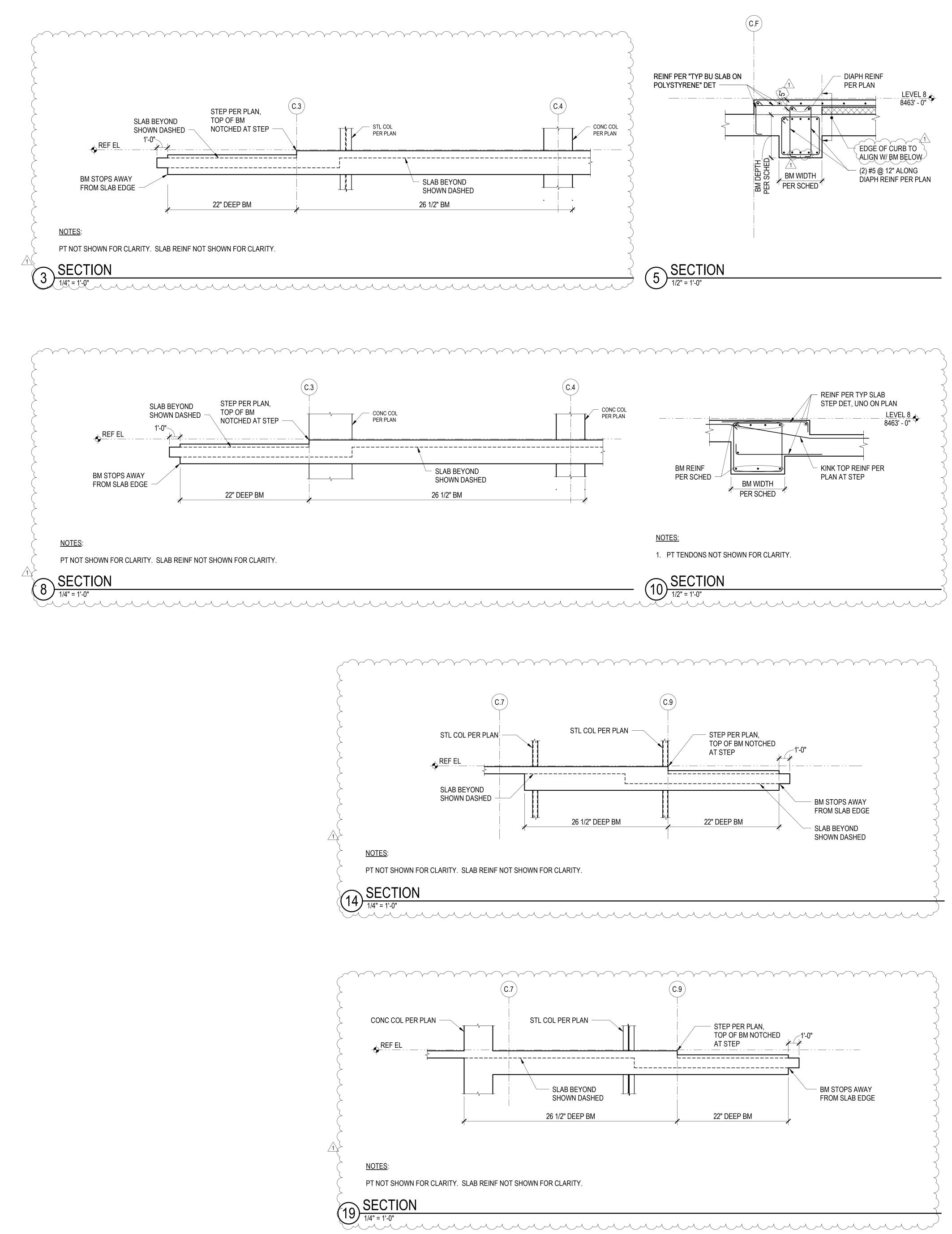
TOWER A & B CONCRETE SECTIONS AND **DETAILS** 



SECTION

1/4" = 1'-0"







Kundig Olson

project:
SOMMET BLANC DEER VALLEY, UTAH MAGNUSSON KLEMENCIC ASSOCIATES

Structural + Civil Engineers Seattle Chicago www.mka.com 206 292 1200

principal architect\_ checked by Checker job no. 20052 date 11/18/2022

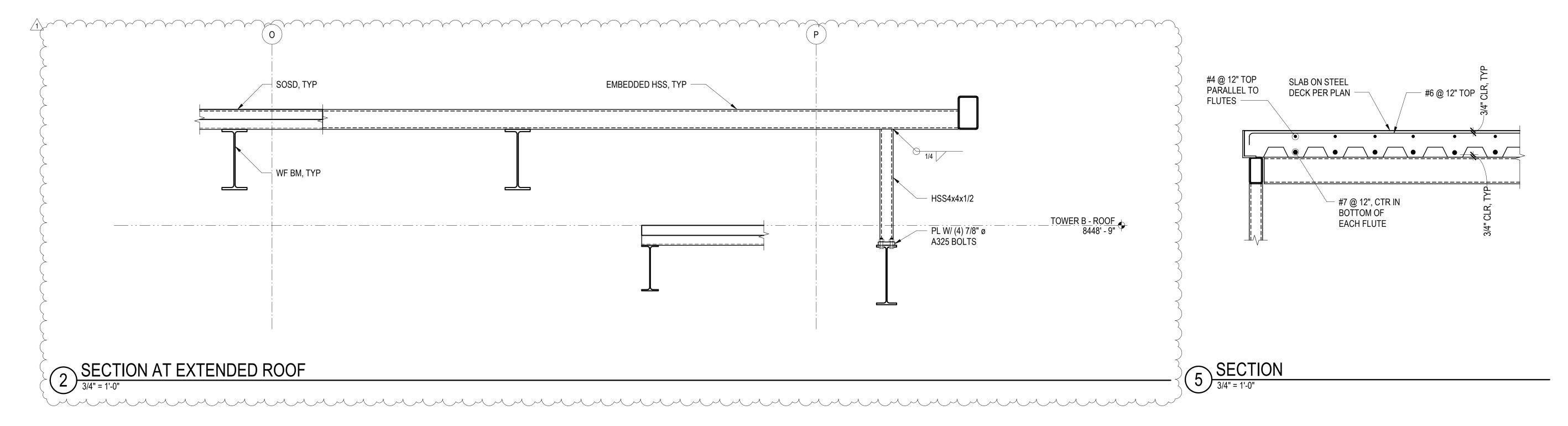
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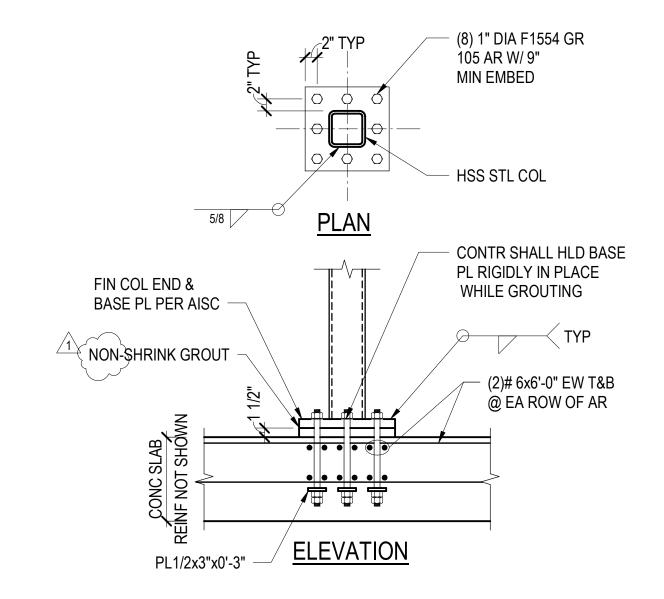
CONSTRUCTION DOCUMENTS

11/18/2022

TOWER C CONCRETE SECTIONS AND **DETAILS** 

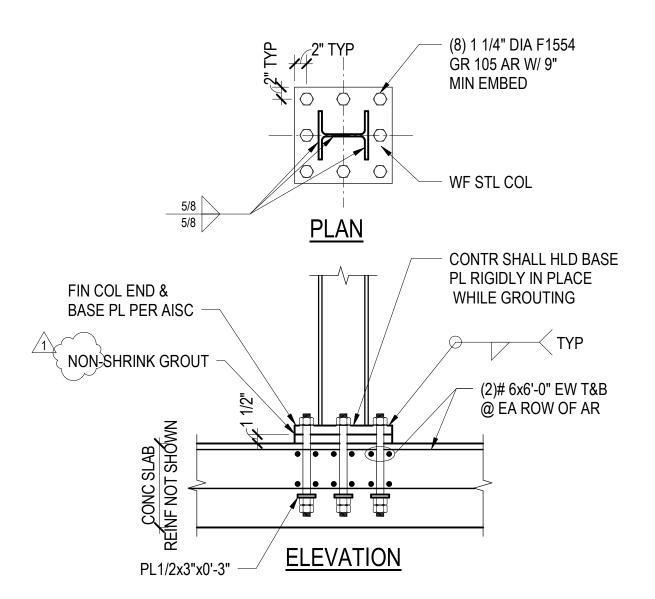
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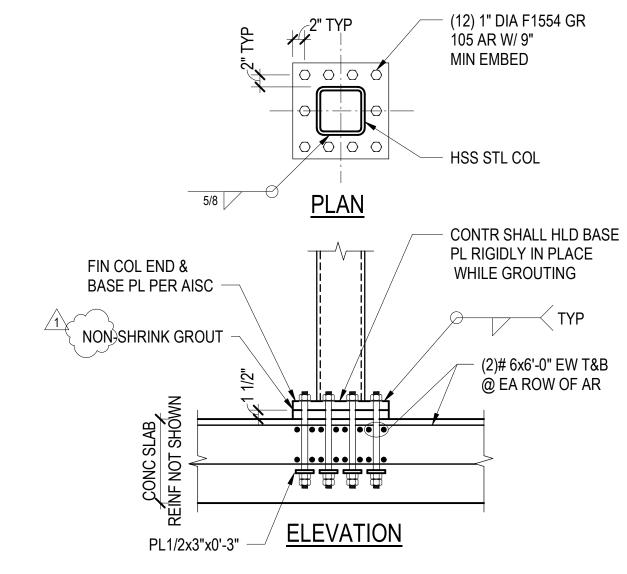
1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING. 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER " AISC MANUAL. TABLE 14-2" UNLESS NOTED OTHERWISE.

# BASE PLATE AT SMALL HSS IN CONNECTOR 3/4" = 1'-0"



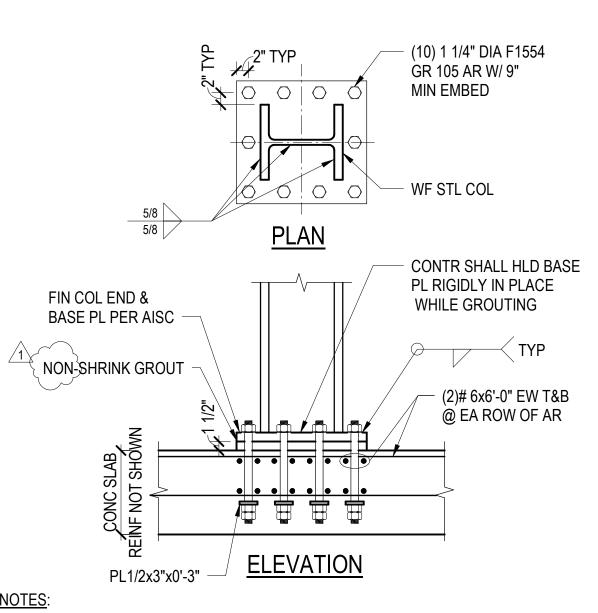
#### NOTES:

- 1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING. 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER " AISC MANUAL. TABLE 14-2" UNLESS NOTED OTHERWISE.
- 19 BASE PLATE AT SMALL WF IN CONNECTOR



- TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING. 2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER " AISC MANUAL. TABLE 14-2", UNLESS NOTED OTHERWISE.

# BASE PLATE AT LARGE HSS IN CONNECTOR 3/4" = 1'-0"

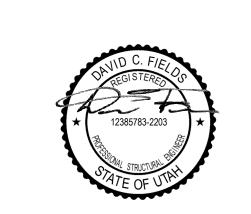


1. TIGHTEN ANCHOR RODS SNUG TIGHT AND SCORE ROD THREADS TO PREVENT LOOSENING.

2. BASE PLATE HOLE DIAMETER AND PLATE WASHER SHALL BE SIZED PER " AISC MANUAL.

- TABLE (4-2", UNLESS NOTED OTHERWISE. 3. WHERE BAR LENGTH CANNOT BE ACHIEVED DUE TO SLAB EDGE, HOOK REINFORCING.
- BASE PLATE AT LARGE WF IN CONNECTOR

  3/4" = 1'-0"



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ASSOCIATES

Seattle Chicago www.mka.com 206 292 1200

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principal architect\_\_\_ project manager\_\_\_\_ checked by job no. 20052 date 11/18/2022

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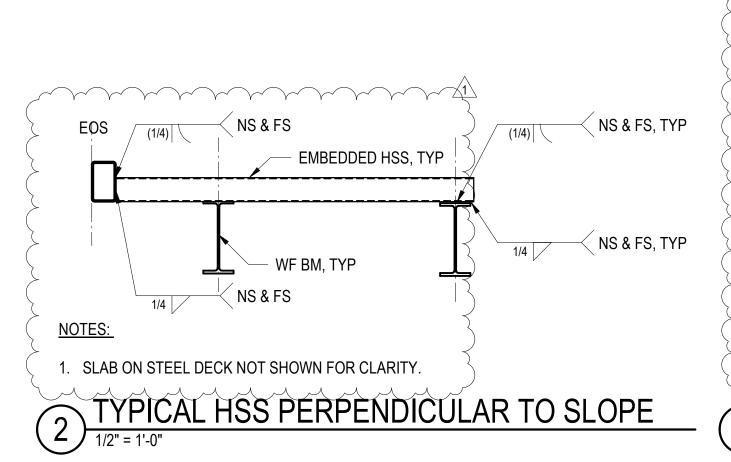
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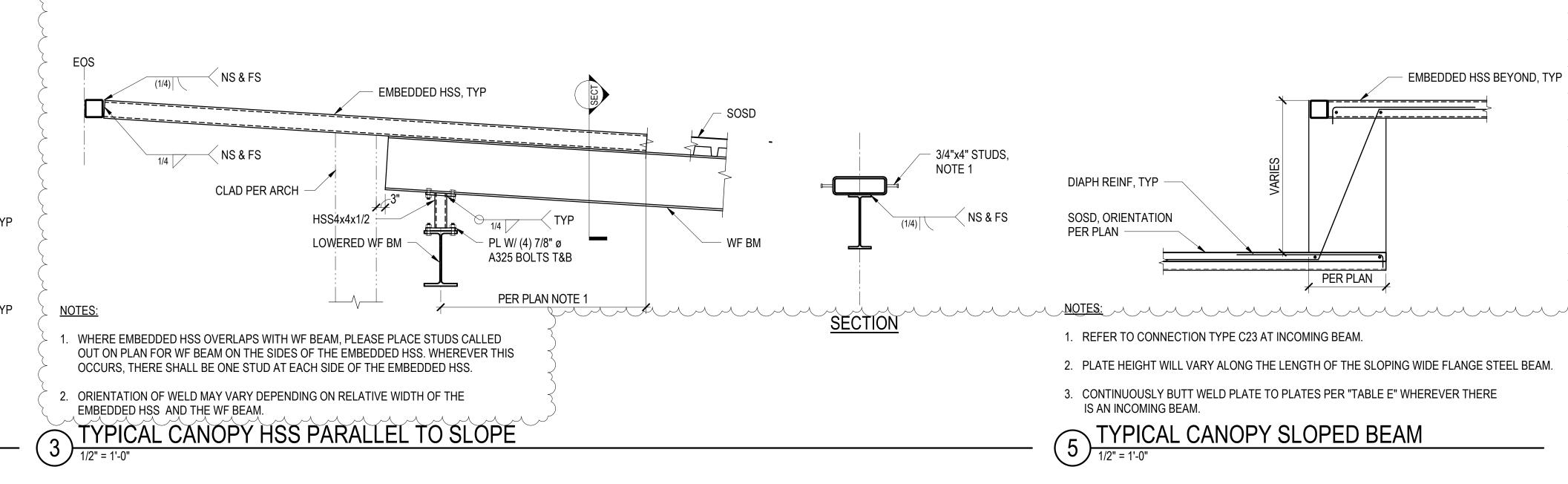
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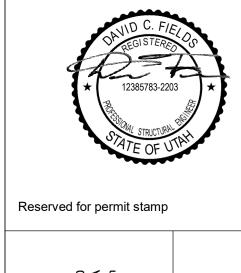
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TOWER A & B STEEL SECTIONS AND DETAILS

S6.00







Kundig Olson

ABC

BLANC., UTAH

project:
SOMMET I
DEER VALLEY, MAGNUSSON KLEMENCIC ASSOCIATES Structural + Civil Engineers Seattle Chicago www.mka.com 206 292 1200

principal architect\_\_\_\_\_ project manager\_\_\_\_ checked by Checker job no.<u>20052</u> date 11/18/2022 1 11/18/2022 IFC

> CONSTRUCTION DOCUMENTS 11/18/2022

TOWER C STEEL SECTIONS AND DETAILS

S6.05

no. date