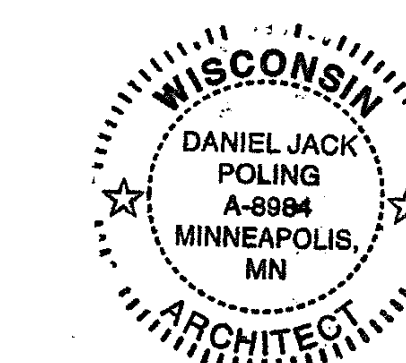


**Olbrich Botanical Gardens
 Expansion Phase 1**
 BPW Project #8162
 3330 Atwood Avenue
 Madison, WI 53704

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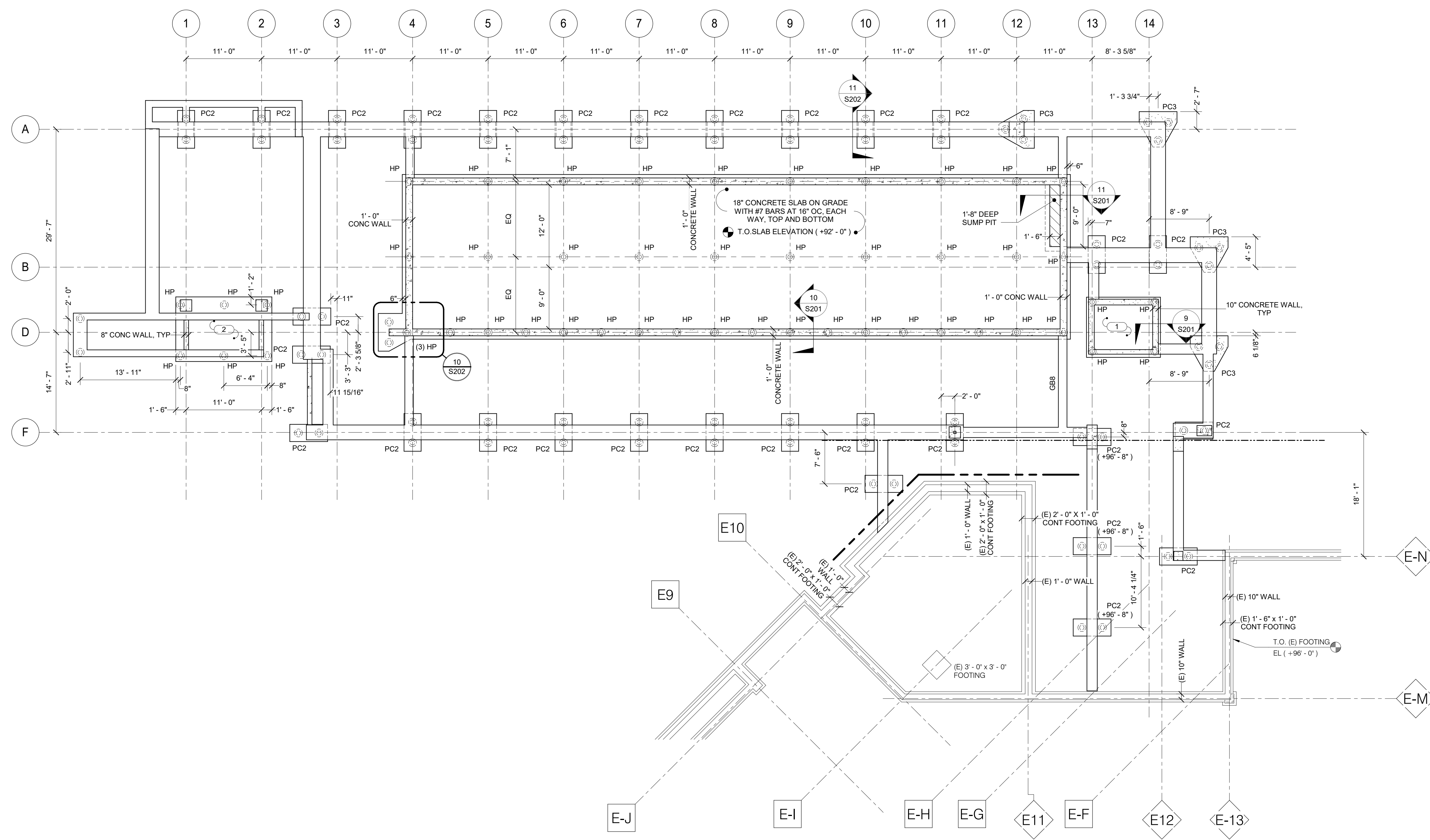
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		01.10.2018	DESIGN DEVELOPMENT SUBMISSION
		03.30.2018	70% CD SUBMISSION
		05.04.2018	100% CONSTRUCTION DOCUMENTS
		05.01.2018	BID ISSUE
		06.04.2018	PERMIT ISSUE

PROJECT NO: 2017016
 PROJECT PHASE: BID DOCUMENTS
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**LEARNING CENTER
 HELICAL PILE PLAN**

EXHIBIT G
S101

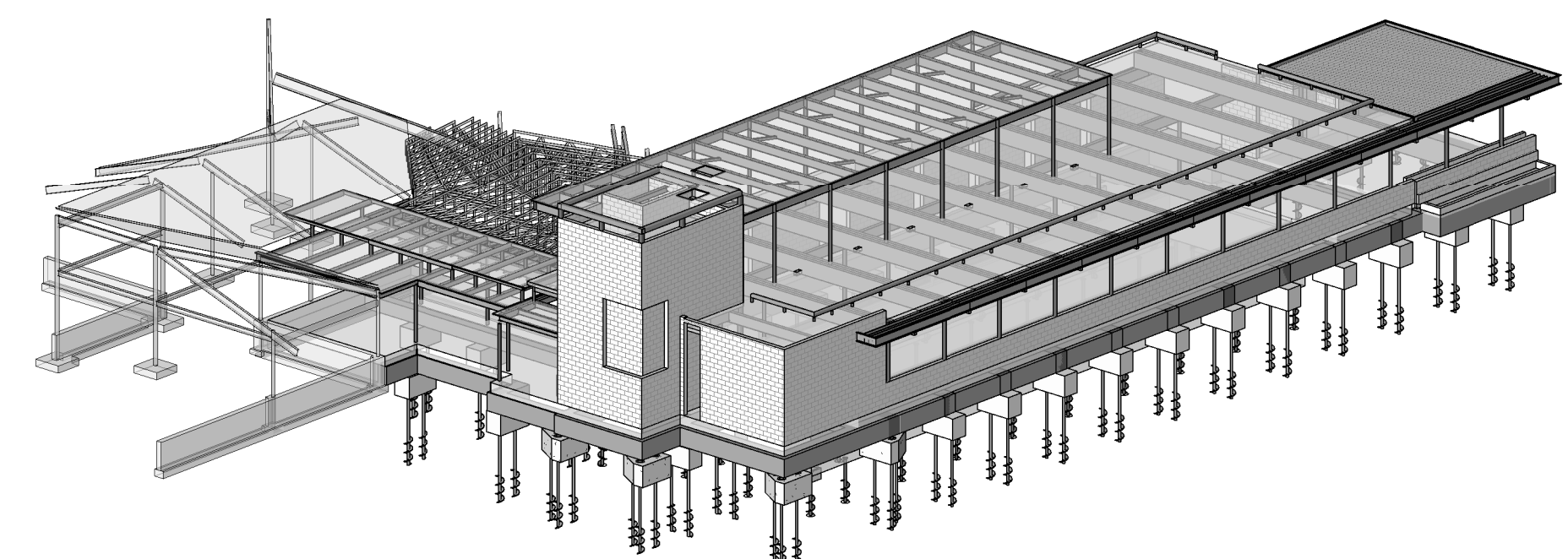
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1 LEARNING CENTER HELICAL PILE PLAN
 1/8" = 1'-0"

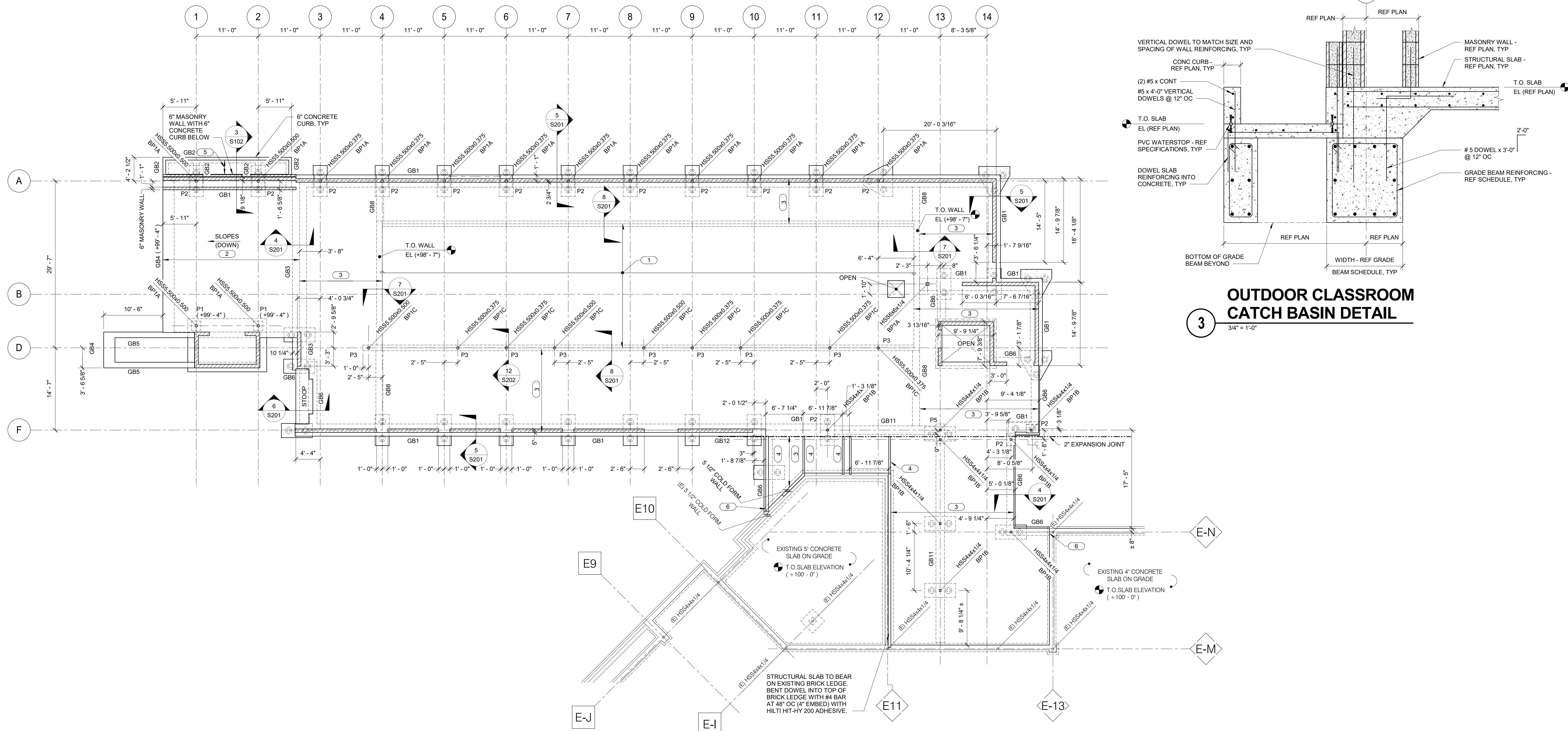
- NOTES:**
- PC# INDICATES PILE CAP. REFER TO S202 FOR SCHEDULE AND LOADS. REFER TO S202 FOR DETAILS. TOP OF PILE CAP ELEVATION (+96'-0"), UNO.
 - SLEEVE UTILITIES THROUGH FOUNDATION PER 12/S201. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
 - INDICATES APPROXIMATE LOCATION OF EARTH RETENTION SYSTEM. REQUIRED DURING CONSTRUCTION OF TANK SLABS AND WALLS. CONTRACTOR TO PROVIDE DESIGN FOR INSTALLATION AND NOT DISTURB THE EXISTING FOUNDATIONS. GEOTECHNICAL REPORT WILL BE PROVIDED. COORDINATE DRAIN TILE INSTALLATION WITH LOCATION OF EARTH RETENTION SYSTEM. CONTRACTOR OPTION TO USE EARTH RETENTION SYSTEM AS FORMWORK.
 - HP INDICATES HELICAL PILE UNDER MAT SLAB. REFER TO S202 FOR LOADS.
 - CISTERN MAT SLAB AND CISTERN WALLS TO HAVE XYPEX ADDITIVE IN CONCRETE.

- KEYNOTES:**
- ELEVATOR PIT SLAB: 18" CONCRETE MAT SLAB WITH #7 @ 16" OC BOTH DIRECTIONS, TOP AND BOTTOM. TOP OF SLAB ELEVATION (+95'-0"). COORDINATE PIT DEPTH WITH SELECTED ELEVATOR.
 - 18" CONCRETE MAT SLAB WITH #7 @ 16" OC BOTH DIRECTIONS, TOP AND BOTTOM. TOP OF SLAB ELEVATION (+96'-0").



3D VIEW

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1 LEARNING CENTER FOUNDATION PLAN

- 1/8" = 1'-0"
- NOTES:**
- TOP OF FOUNDATION WALL ELEVATION (+98'-3"), UNO.
 - ALL MASONRY WALLS SHOWN ARE TO BE NOMINALLY 8" WITH #5 @ 48" OC. UNO. MASONRY SHEAR WALL LAYOUT ON THIS SHEET FOR MASONRY SHEAR WALL LOCATION AND REINFORCING.
 - BP# INDICATES BASE PLATE. REFER TO S202 FOR ANCHOR ROD AND BASE PLATE DETAILS.
 - PI# INDICATES CONCRETE PIER. REFER TO S202 FOR DETAILS. TOP OF PIER ELEVATION MATCHES TOP OF WALL OR GRADE BEAM, UNO.
 - PROVIDE 2'-0" x 2'-6" CORNER BARS FOR GRADE BEAM AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
 - REFER TO DETAIL 12/S202 FOR OPENINGS IN HOLLOWCORE PLANK.
 - SLEEVE UTILITIES THROUGH FOUNDATION PER 12/S201. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
 - GB# INDICATES GRADE BEAM. REFER TO S002 FOR GRADE BEAM SCHEDULE. TOP OF GRADE BEAM ELEVATION (+98'-7"), UNO.
 - REFER TO DETAILS 1, 2 AND 3 ON S201 FOR STRUCTURAL SLAB DETAILS.
- KEYNOTES:**
- SLAB ON INSULATION ON PRECAST PLANK WITH TOPPING:
5" CONCRETE TOPPING SLAB WITH 6x6 - W2-1W2.1 WWR. TOP OF SLAB = (+100'-0")
4" ASTM D6847 EPS 12-BY GEOFOM OR EQUIVALENT
2" COMPOSITE CONCRETE TOPPING SLAB WITH 6x6 - W1.4W1.4 WWR
10" HOLLOWCORE SLAB. THE HOLLOWCORE SLAB IS TO BE DESIGNED FOR 85 PSF SUPERIMPOSED DEAD LOAD (EXCLUDES 2" COMPOSITE TOPPING) AND 100 PSF SUPERIMPOSED LIVE LOAD. HOLLOWCORE TO BE DESIGNED WITH APPROPRIATE CLEAR COVER TO PROTECT AGAINST WATER MOISTURE EXPOSURE AT BOTTOM OF THE PLANK.
 - 8" STRUCTURAL SLAB WITH #6 @ 10" OC TOP AND BOTTOM AND #4 @ 12" OC TEMPERATURE REINFORCING. TOP OF SLAB = (+100'-0"). SLAB IS TO BE SLOPED PER ARCHITECTURAL DRAWINGS. THICKNESS OF SLAB IS TO BE CONSTANT THROUGHOUT.
 - SLAB ON INSULATION ON STRUCTURAL SLAB:
5" CONCRETE TOPPING SLAB WITH 6x6 - W2-1W2.1 WWR. TOP OF SLAB = (+100'-0")
4" ASTM D6847 EPS 12-BY GEOFOM OR EQUIVALENT
8" STRUCTURAL SLAB WITH #6 @ 12" OC TOP AND BOTTOM AND #4 @ 12" OC TEMPERATURE REINFORCING.
 - COLD FORM BEARING WALL. WALL TO BE DESIGNED FOR 150LB DEAD LOAD AND 650LB SNOW LOAD. CONCRETE CURB BETWEEN TOP OF STRUCTURAL SLAB AND BOTTOM OF TOPPING SLAB TO BE PROVIDED AT EACH WALL LOCATION.
 - 5" STRUCTURAL SLAB WITH #4 @ 12" OC EACH WAY. TOP OF SLAB = (+99'-0").
 - DOWEL REINFORCING OF GRADE BEAM INTO EXISTING PIER AND ANCHOR WITH HILTI HIT-HY 270 (4" EMBED).

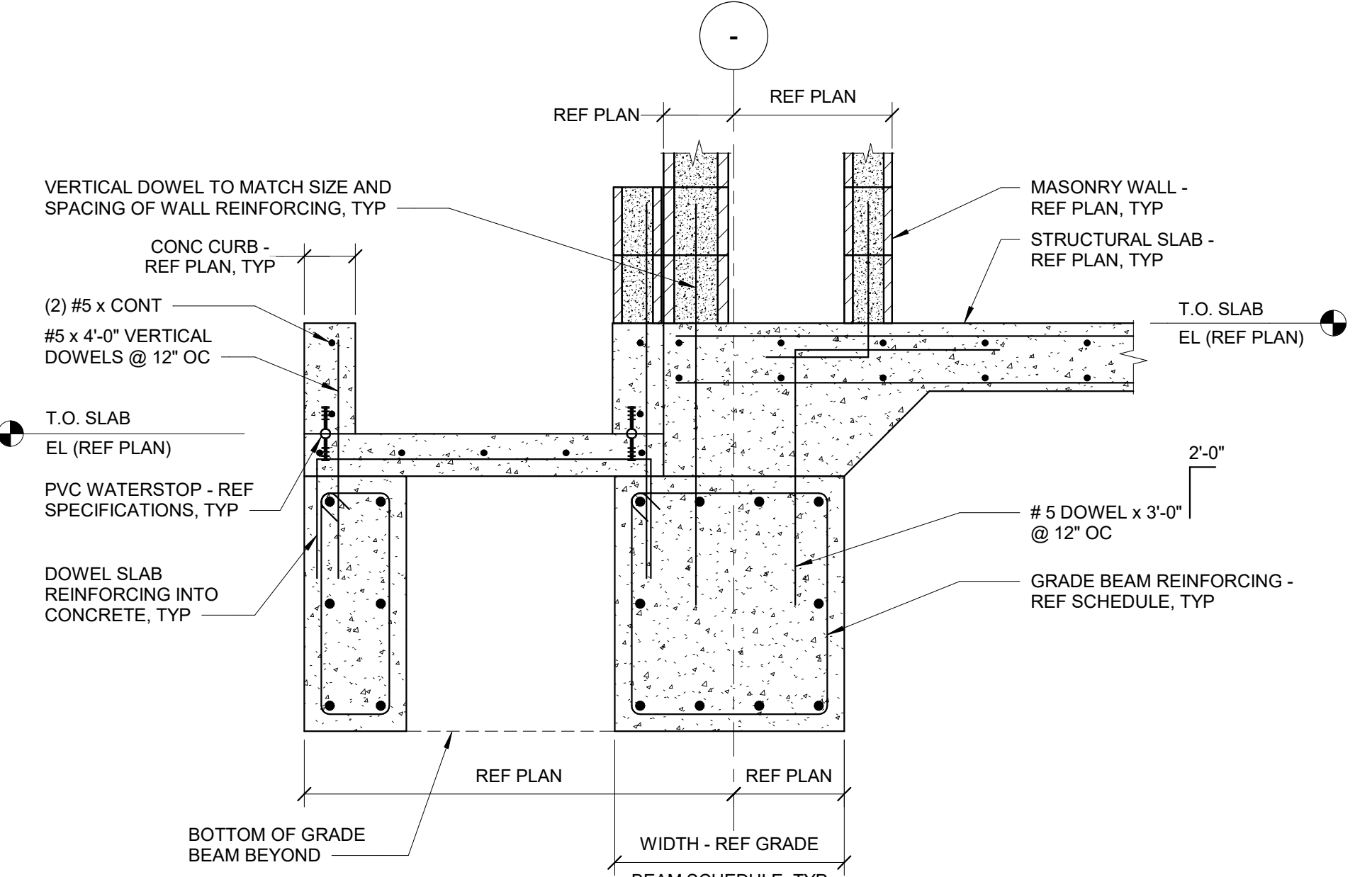
2 MASONRY SHEAR WALL LAYOUT

1/16" = 1'-0"

MASONRY WALL REINFORCING SCHEDULE

MARK	VERTICAL	HORIZONTAL	END ZONES	NOTES
MW1	#5 @ 48" OC	-	(1) CELL WITH (1) #5	-
MW2	#5 @ 24" OC	-	(2) CELLS WITH (1) #5 EACH CELL	-
MW3	REFER TO 4/S104	-	-	-
MW4	REFER TO 3/S104	-	-	-
MW5	REFER TO 2/S104	-	-	-
MW6	REFER TO 5/S104	-	-	-

- NOTES:**
- TYPICAL HORIZONTAL REINFORCING IS AS PER SPECIFICATIONS. IT IS INTENDED TO BE DUROWAL - LADDER TYPE OR EQUIVALENT.
 - REINFORCED CORES ARE ALWAYS GROUTED.
 - REFER TO 8/S301 FOR TYPICAL MASONRY OPENING AND END ZONE DETAIL.
 - END ZONE REINFORCING CONTROL OVER TYPICAL VERTICAL REINFORCING. TYPICAL VERTICAL REINFORCING APPLIES BETWEEN END ZONES.
 - PROVIDE BOND BEAM WITH (2) #5 AT EACH LEVEL, UNLESS NOTED OTHERWISE IN DETAILS.



3 OUTDOOR CLASSROOM CATCH BASIN DETAIL

3/4" = 1'-0"

MSR 710 South 2nd Street, 8th Floor
Minneapolis, Minnesota 55401-2282
Architecture 612.375.0336 tel
Interiors and 612.342.2216 fax
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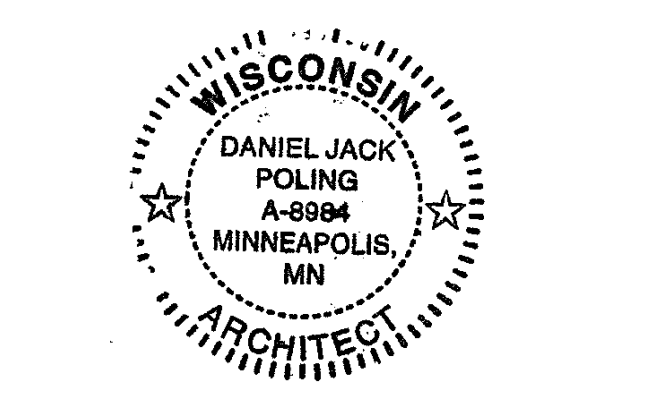
MEP Engineer
MEP Associates, LLC
860 Blue Garden Road, Suite 175
Eagan, MN 55121
651.379.9120 tel

Fire Protection Engineer and Code Consultant
Summit Fire Consulting
575 Minnehaha Ave West
St. Paul, MN 55103
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Rough Brothers, Inc.
5513 Vine Street
Cincinnati, OH 45217
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Olbrich Botanical Gardens
Expansion Phase 1
BPW Project #8162
3330 Atwood Avenue
Madison, WI 53704

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Signature: *[Signature]*
Print Name: **DANIEL JACK POLING**
Date: JUNE 1, 2018 License No.:

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	06.01.2018	BID ISSUE
	06.04.2018	PERMIT ISSUE

PROJECT NO. 2017016

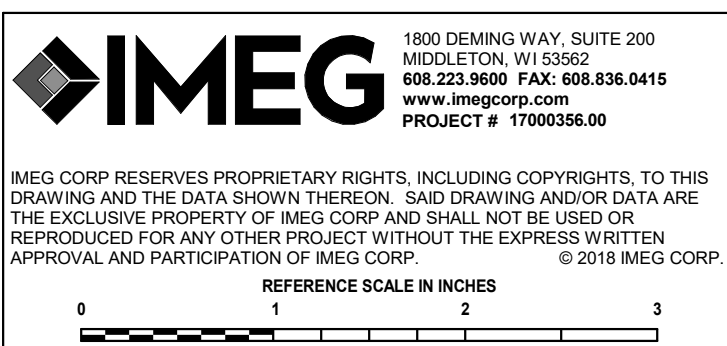
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LEARNING CENTER FOUNDATION PLAN

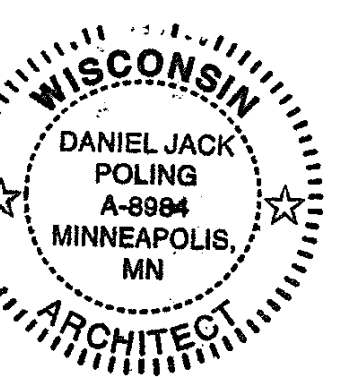
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S102



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 Date: JUNE 1, 2018 License No. A-9894

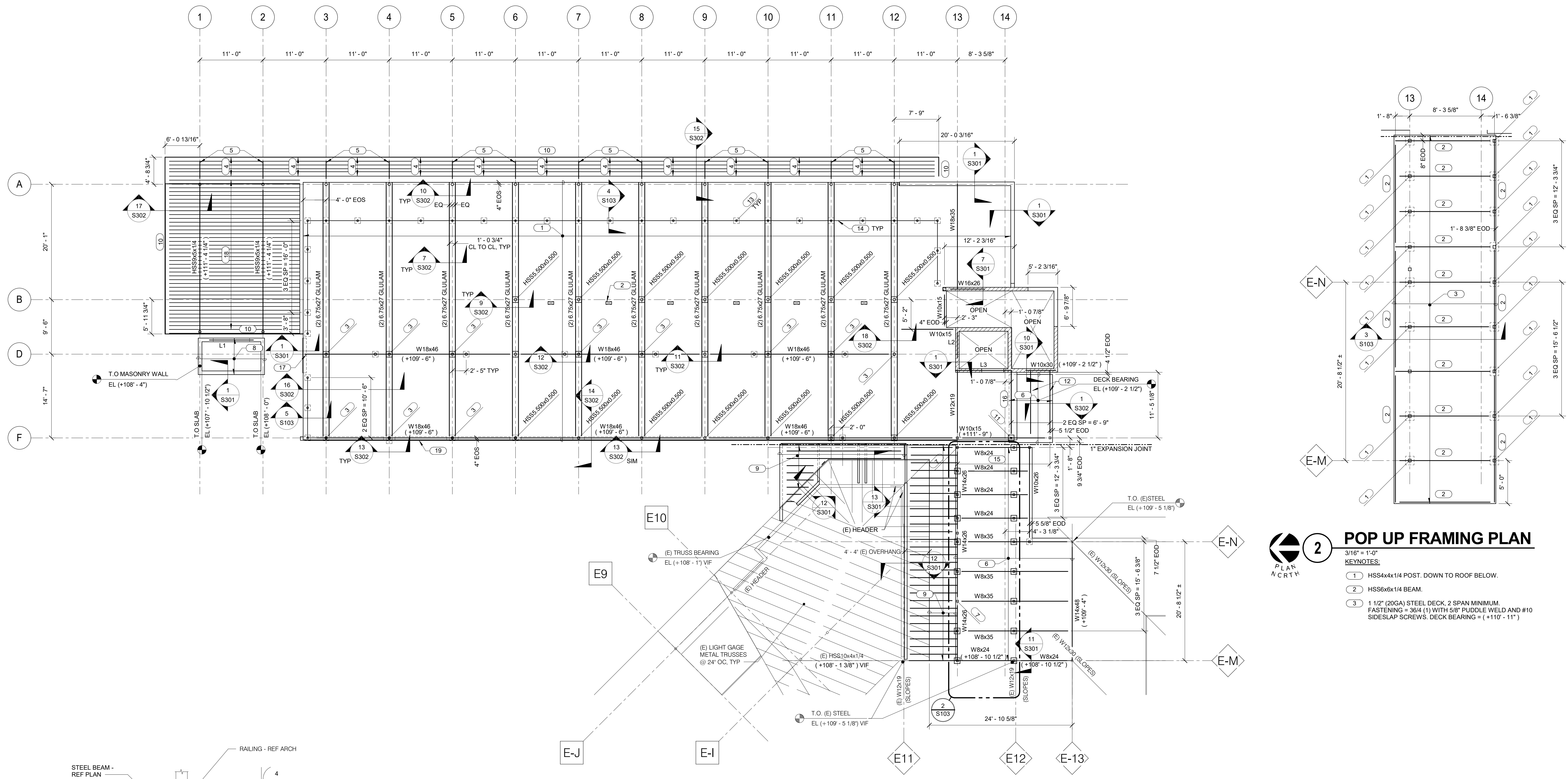
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**LEARNING CENTER
 LEVEL 2 FRAMING PLAN**

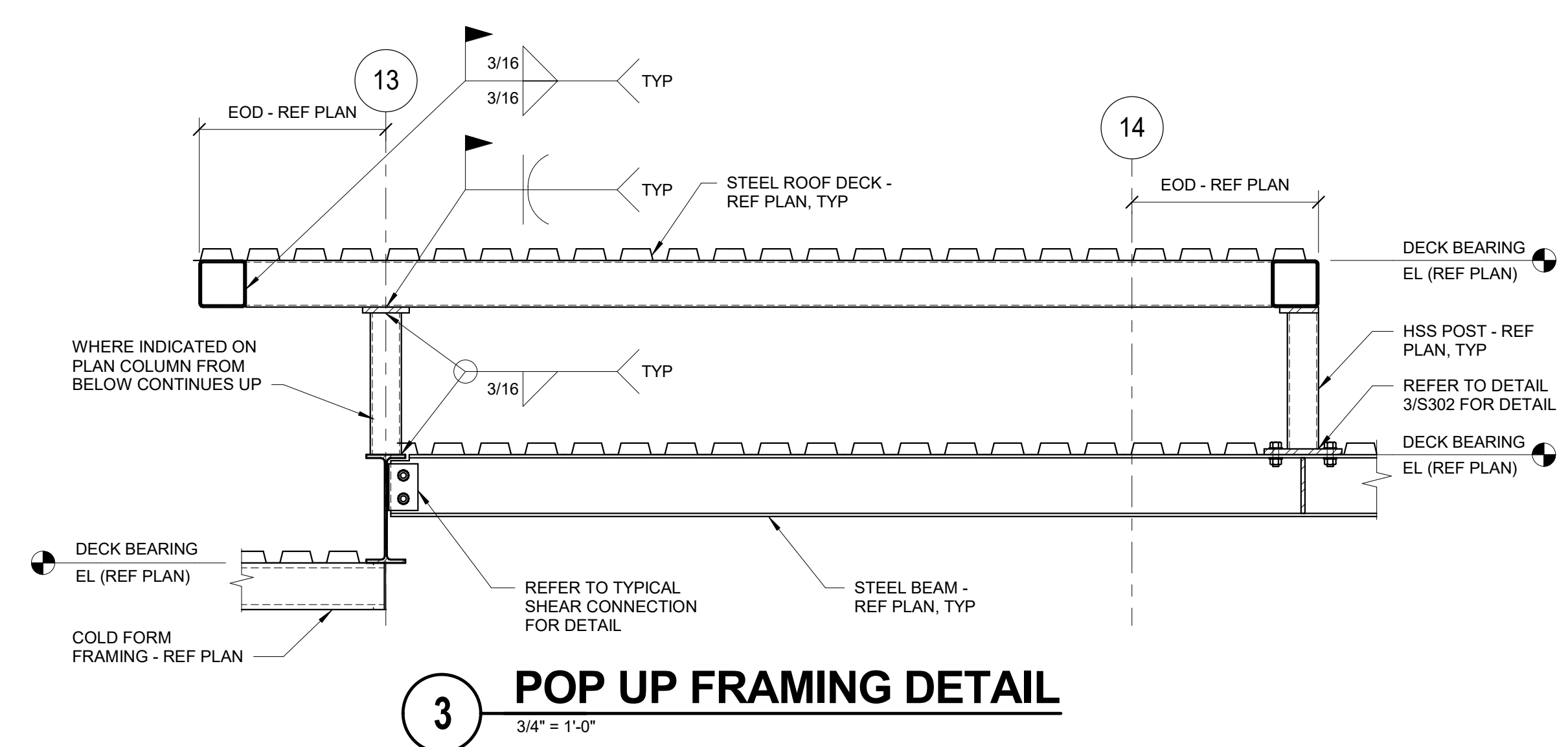
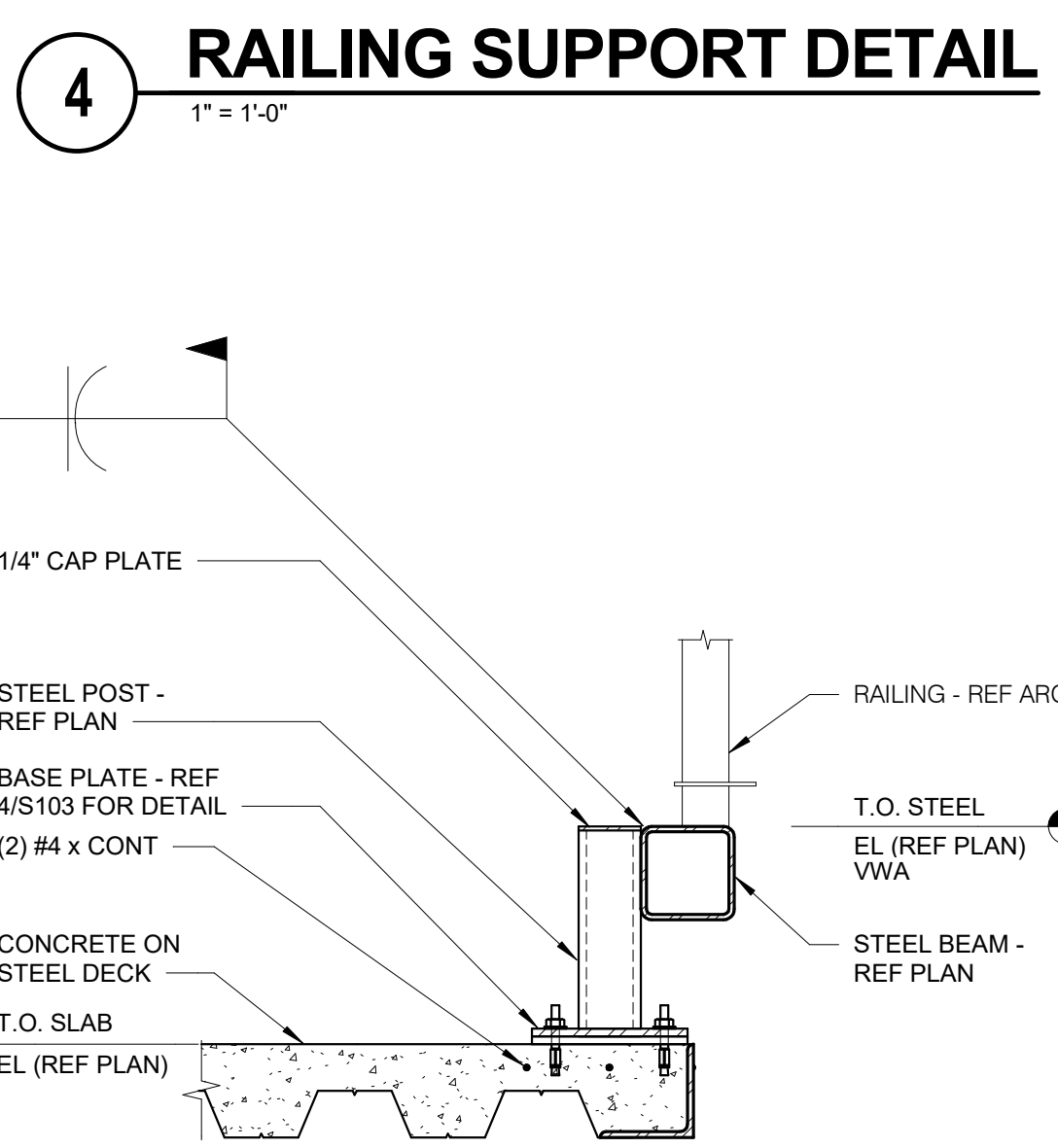
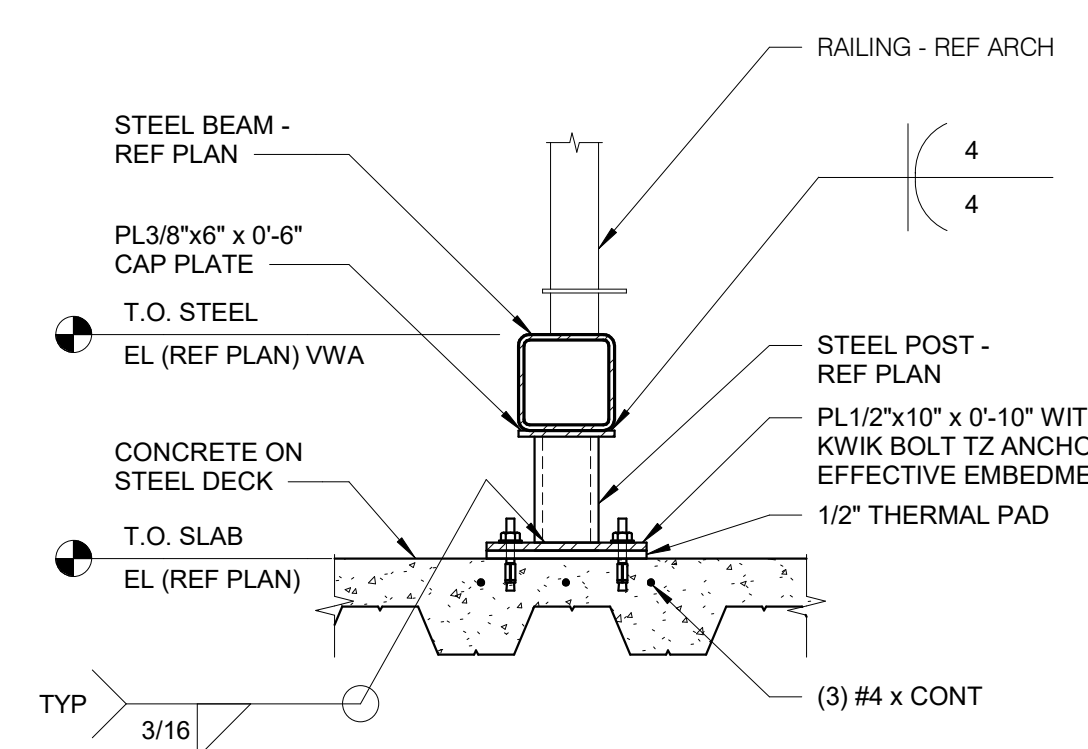
EXHIBIT G

S103



2 POP UP FRAMING PLAN
 3/16" = 1'-0"
 KEYNOTES:
 1 HSS4x4x1/4 POST, DOWN TO ROOF BELOW.
 2 HSS6x6x1/4 BEAM.
 3 1 1/2" (20GA) STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELD AND #10 SIDELAP SCREWS. DECK BEARING E (+110' - 11")

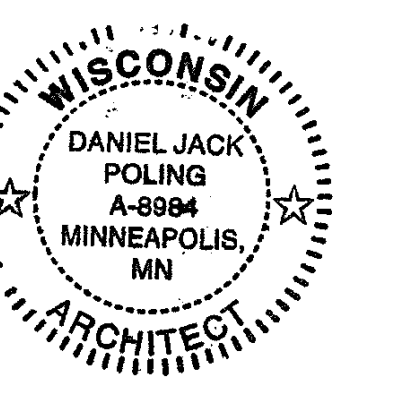
1 LEARNING CENTER LEVEL 2 FRAMING PLAN
 1/8" = 1'-0"
 NOTES:
 1. REFER TO 6/S302 FOR TYPICAL SHEAR CONNECTION.
 2. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO 9/S301 FOR SCHEDULE.
 3. FOR LINTELS IN NON-STRUCTURAL WALLS, REFER TO GENERAL NOTES FOR SCHEDULE.
 KEYNOTES:
 1 3" NORMAL - WEIGHT CONCRETE ON 3" (18 GA) COMPOSITE STEEL DECK, 2 SPAN MINIMUM, WITH 6x6 - W2.1xW2.1 WWR, TOTAL THICKNESS = 6". TOP OF SLAB ELEVATION (+112' - 3"). FASTENING = 36/4 (3) @ STEEL FRAMING USE 5/8" PUDDLE WELDS AND WELDED SIDELAPS @ GLULAM FRAMING. USE #10 TRUGRIP LAG SCREWS FOR SUPPORT FASTENERS (1 1/4" MIN EMBED AND WELDED SIDELAPS).
 2 FLOOR PENETRATION - REFER TO 9/S301 FOR DETAIL.
 3 HSS5.000x0.375 POST FROM TOP OF STEEL BEAM TO BOTTOM OF DECK. REFER TO DETAIL 12/S302.
 4 2x8 @ 8" OC MAX. TOP OF BEAM = (+112' - 1"). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPACING.
 5 HSS5x3/8 OUTRIGGER (GALV), TOP OF STEEL ELEVATION = (+111' - 4 1/4").
 6 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. DECK BEARING = (+108' - 10 1/2") UNO.
 7 COLUMN EXTENDS TO POP UP ROOF ABOVE.
 8 3" NORMAL - WEIGHT CONCRETE ON 2" (20 GA) CONFORM DECK, 1 SPAN, WITH 6x6 - W1.4xW1.4 WWR, TOTAL THICKNESS = 5".
 9 1 1/2" (22GA) TYPE B ROOF DECK SUPPORTED BY 6" COLD FORM JOISTS AT 16" OC. REFER TO LOADS ON 6/S104. DECK BEARING = (+107' - 9").
 10 C15x33.9 x CONT (+112' - 8 1/2").
 11 HSS3x3x1/4 POST FROM (+108' - 10") TO (+110' - 9"). REFER TO DETAILS 3 AND 4/S302.
 12 W8x15. TOP OF STEEL ELEVATION = (+109' - 2 1/2").
 13 HSS4x0.313 POST (GALV), POSTS TO BE CENTERED UNDER VERTICAL POSTS OF GUARD RAIL AT 5' - 6" OC MAX. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF GUARD RAIL POSTS.
 14 HSS6x6x5/8 (GALV) x CONTINUOUS RAILING SUPPORT, TOP OF STEEL ELEVATION = (+113' - 5").
 15 W10x26 (+109' - 2 1/2") TRANSFER BEAM
 16 W12x19 (+111' - 9") - EOS = 1'-0"
 W8x15 (+109' - 2 1/2") - EOD = 4 1/2"
 REFER TO DETAIL 17/S301.
 17 REFER TO 5/S301 SIM FOR BEAM BEARING ON MASONRY DETAIL.
 18 2x TONGUE AND GROOVE WOOD DECK WITH CONTROLLED RANDOM LAY-UP OVER 2x8 ACCOYA @ 8" OC MAX. TOP OF BEAM = (+112' - 1"). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPACING.
 19 C15x33.9 x CONT (+109' - 6"). VERIFY EXTENTS WITH ARCHITECT.



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 Print Name: DANIEL JACK POLING
 Date: JUNE 1, 2018 License No:
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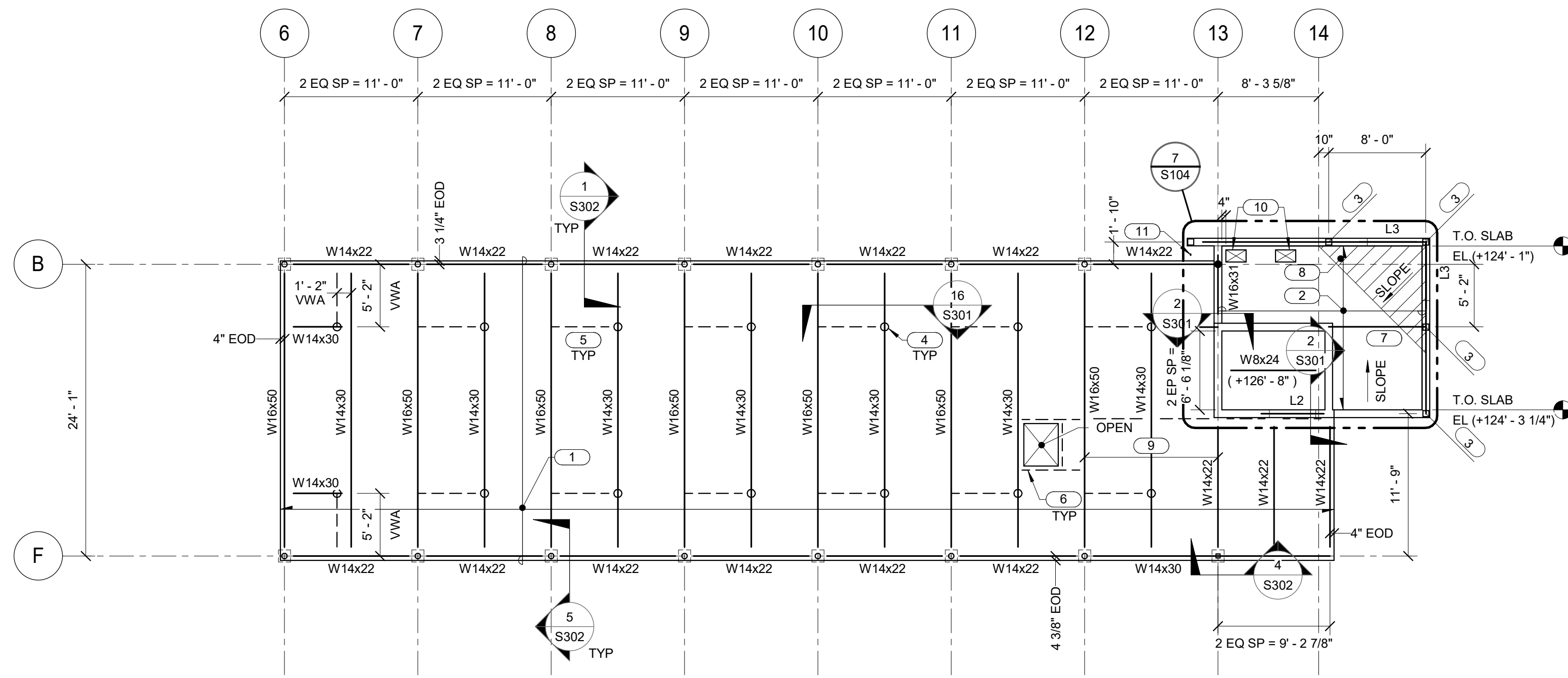
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**LEARNING CENTER
 ROOF FRAMING PLAN**

EXHIBIT G

S104

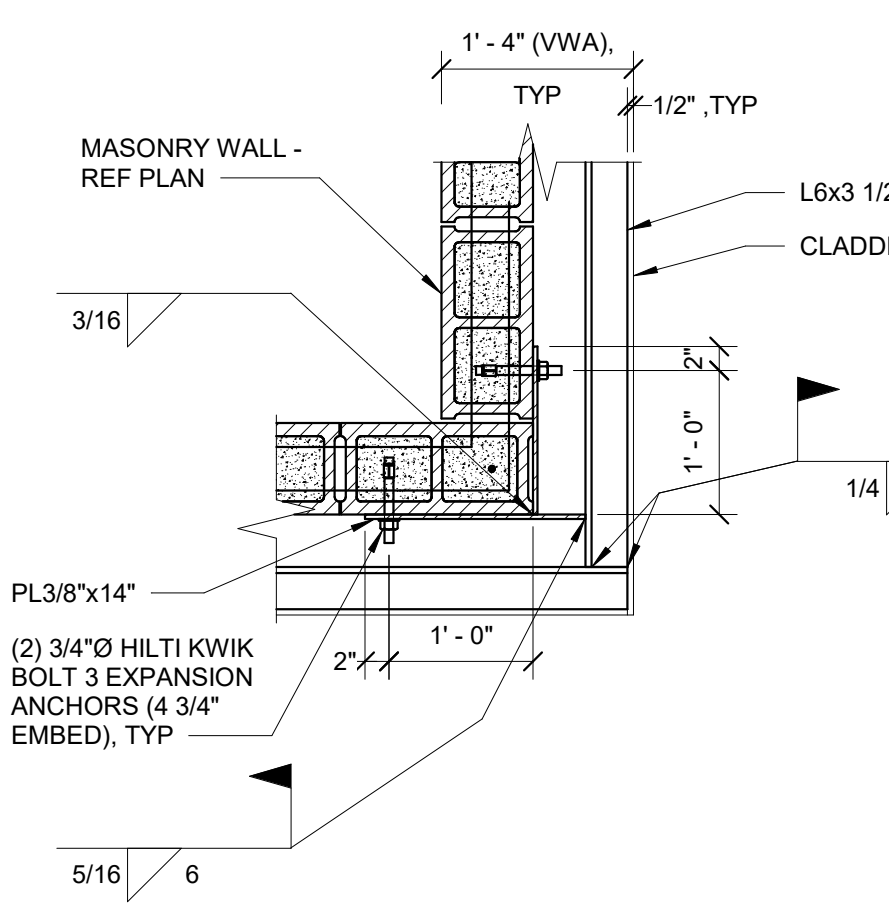


1 LEARNING CENTER ROOF FRAMING PLAN

- 1/8" = 1'-0"
 NOTES:
 1. REFER TO 6/S302 FOR TYPICAL SHEAR CONNECTION.
 2. ● INDICATES ASTM F1852 BOLT WITH A CLASS A FAYING SURFACE IS TO BE PROVIDED IN SHEAR CONNECTION.
 3. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL - REFER TO 9/S301 FOR SCHEDULE.
 4. FOR LINTELS IN NON-STRUCTURAL WALLS, REFER TO GENERAL NOTES FOR SCHEDULE.
 KEYNOTES:
 (1) 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM, FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. DECK BEARING ELEVATION (+123' - 3 1/2"), UNO.
 (2) 3" NORMAL - WEIGHT CONCRETE ON 2" (20 GA) CONFORM DECK, 1 SPAN, WITH 6x6 - W1.4XW1.4 WWR. TOTAL THICKNESS = 5". SEE PLAN FOR ELEVATIONS.
 (3) HSS6x6x5/16 POSTS.
 (4) FALL ARREST POST BY OTHERS. HOLES FOR ANCHORING OF POSTS TO BE PROVIDED. STEEL FABRICATOR TO COORDINATE WITH FALL ARREST SYSTEM PROVIDED.
 (5) L4x4x1/4 KICKER.
 (6) PROVIDE ANGLE FRAMING AROUND OPENINGS IN ROOF DECK PER 15/S301.
 (7) L6x6x3/8. MINIMUM 4" BEARING ON GROUTED MASONRY BLOCK EACH END.
 (8) PROVIDE CONCRETE BUILD UP TO FORM SLOPE. REFER TO ARCHITECTURAL DRAWINGS FOR SLOPE REQUIREMENTS. MAXIMUM BUILD UP EQUAL TO 2".
 (9) CONTINUE DECK EDGE ANGLE PAST END OF MASONRY WALL. AFTER MASONRY WALL ENDS PROVIDE PLATE ON BACK SIDE OF ANGLE. REFER TO DETAIL 18/301.
 (10) FLOOR PENETRATION - REFER TO 9/S301 FOR DETAIL.
 (11) L6x4x3/8 (LV). PROVIDE 4" BEARING OF HORIZONTAL LEG EACH END AND WELD TO BEARING.

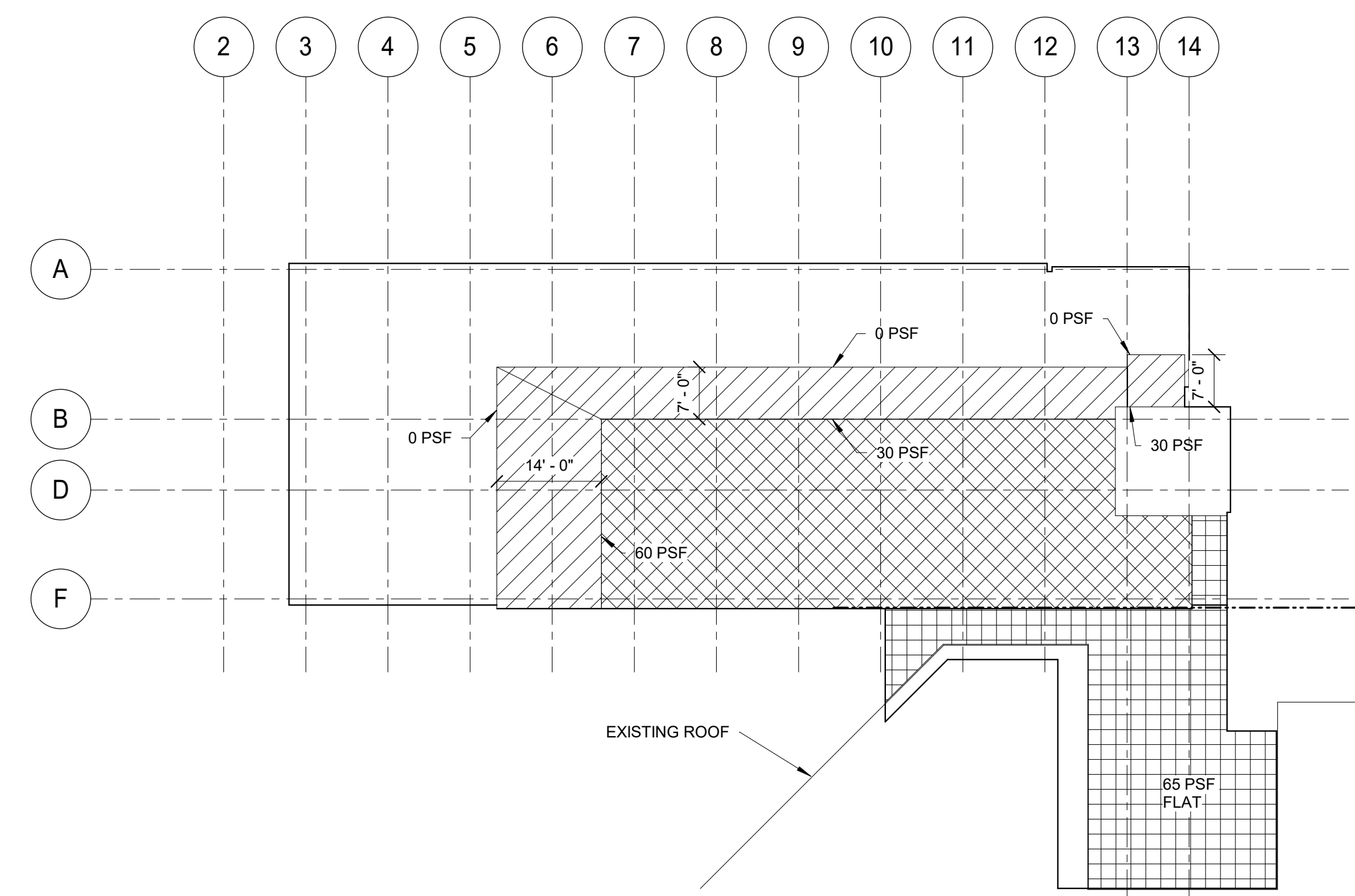
7 PLENUM ROOF

- 1/8" = 1'-0"
 KEYNOTES:
 (1) 1 1/2" (20 GA) STEEL DECK, FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. DECK BEARING ELEVATION (+127' - 3 1/2"), UNO.
 (2) PROVIDE ANGLE FRAMING AROUND OPENINGS PER 15/S301.
 (3) HSS8x8x1/4 (+127' - 11 1/2").
 (4) L6x6x3/8 (+127' - 3 1/2"). MINIMUM 4" BEARING ON GROUTED BLOCK EACH END.



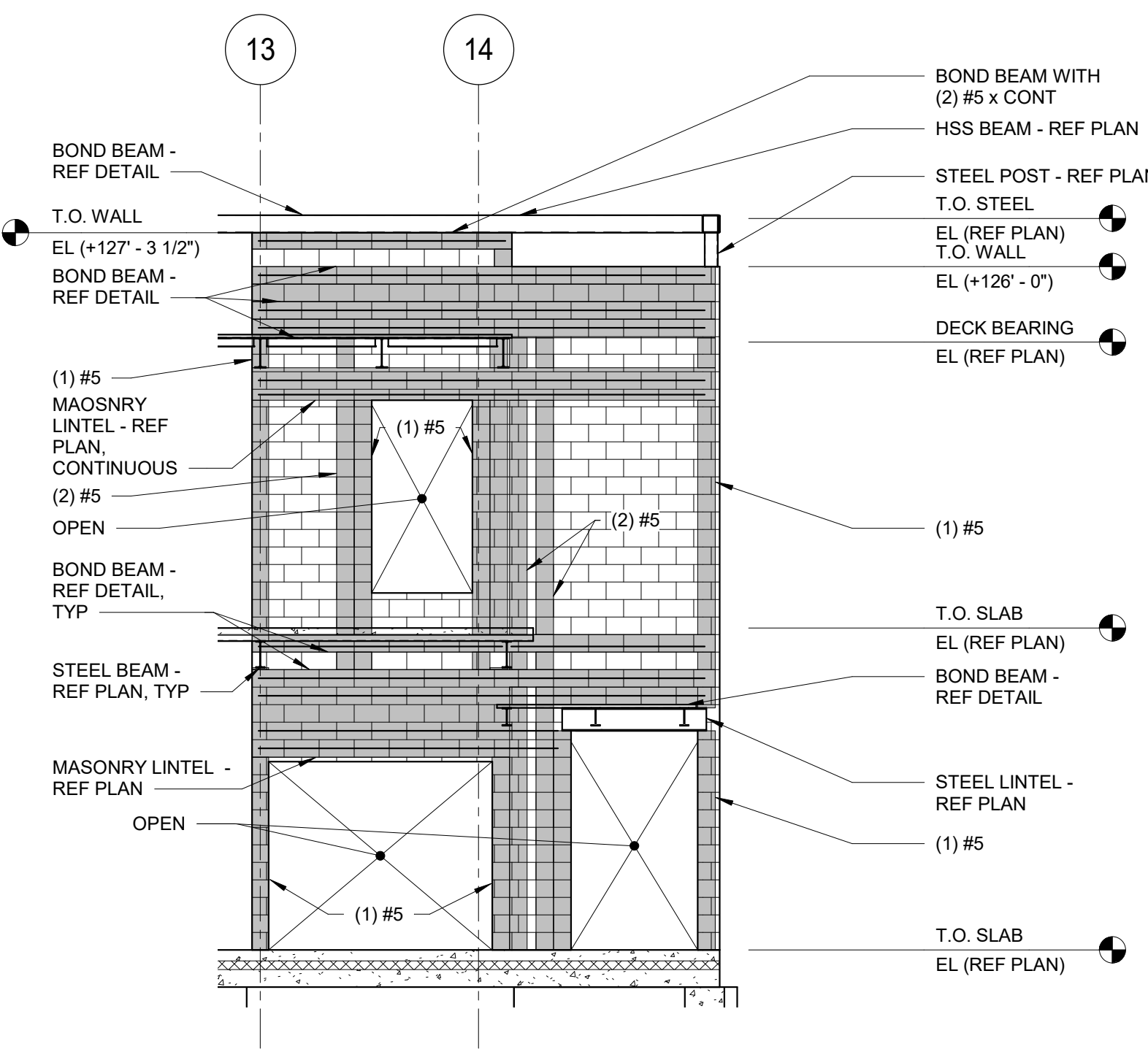
8 LINTEL SUPPORT

- 3/4" = 1'-0"
 NOTES:
 1. ELEVATION SHOWN IS LOOKING SOUTH.
 2. REFER TO DETAILS 4, 5, AND 6/S301 FOR TYPICAL BEAM BEARING AT THE END OF STEEL LINTELS.
 3. REFER TO 8/S301 FOR CONDITIONS NOT COVERED BY ELEVATION.



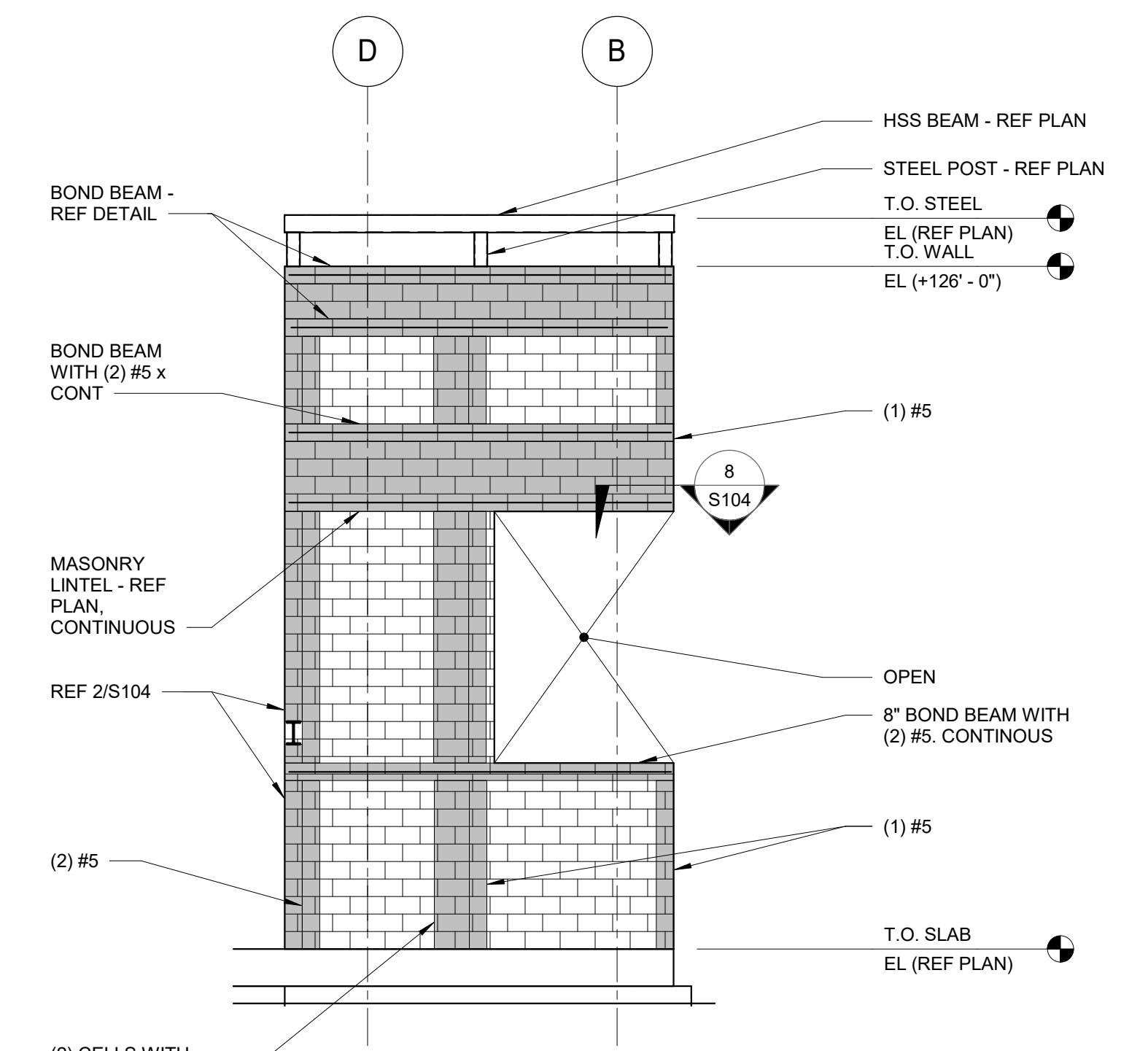
6 LEARNING CENTER ROOF LOAD PLAN

- 1/16" = 1'-0"
 NOTES:
 1. ALL INDICATED LOADS ARE IN ADDITION TO THE FOLLOWING DESIGN LOADS
 ROOF DEAD LOAD = 25 PSF
 SNOW LOAD = SEE S301
 2. ▨ INDICATES TAPERED SNOW DRIFT LOAD.
 3. ▩ INDICATES FLAT SNOW DRIFT LOAD.
 4. ▭ INDICATES ROOF SUPPORTING SOLAR PANELS. DESIGN DEAD LOAD = 10 PSF.



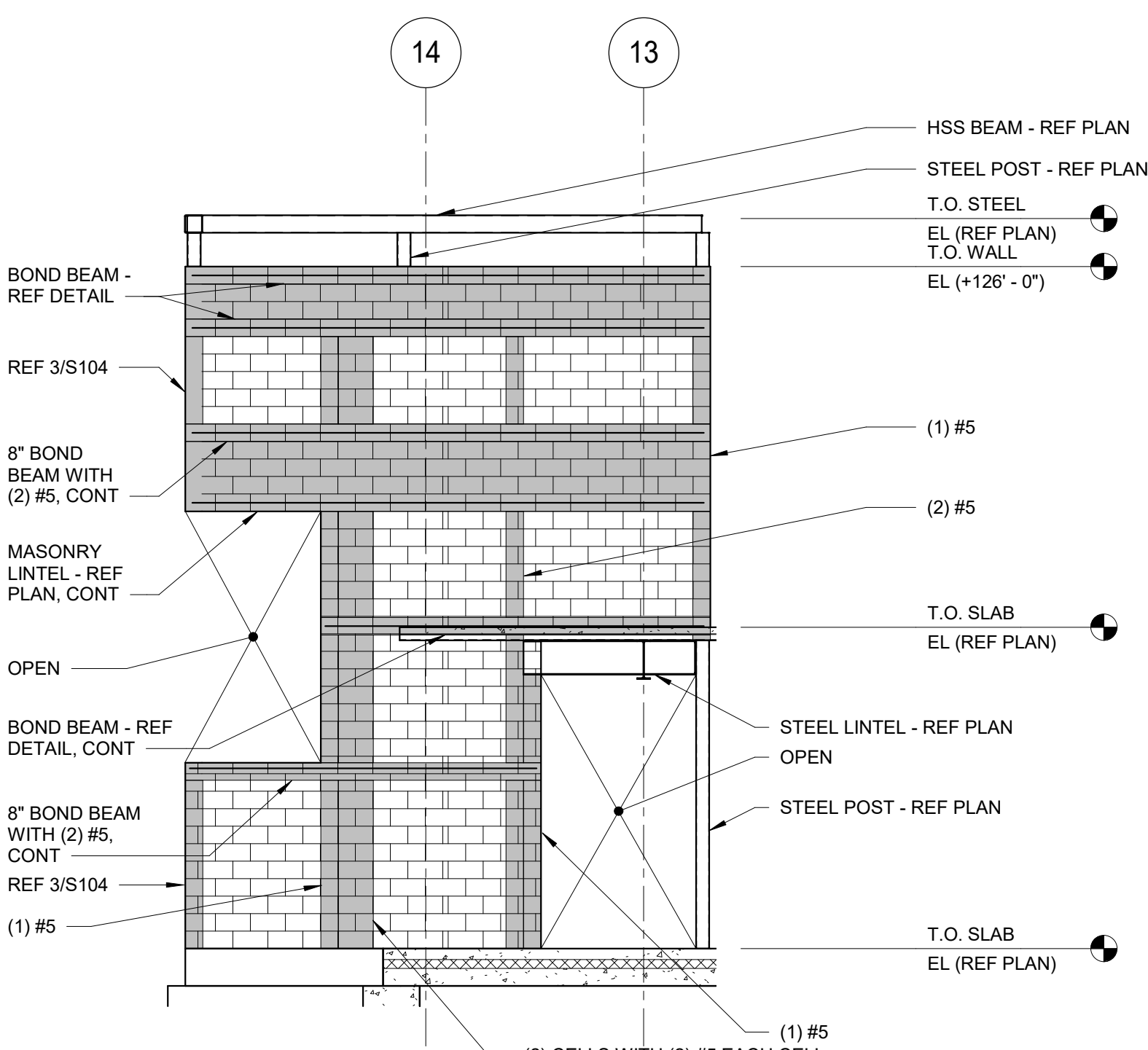
2 MASONRY SHEAR WALL ELEVATION - WEST FACE

- 3/16" = 1'-0"
 NOTES:
 1. ELEVATION SHOWN IS LOOKING EAST.
 2. REFER TO DETAILS 4, 5, AND 6/S301 FOR TYPICAL BEAM BEARING AT THE END OF STEEL LINTELS.
 3. REFER TO 8/S301 FOR CONDITIONS NOT COVERED BY ELEVATION.



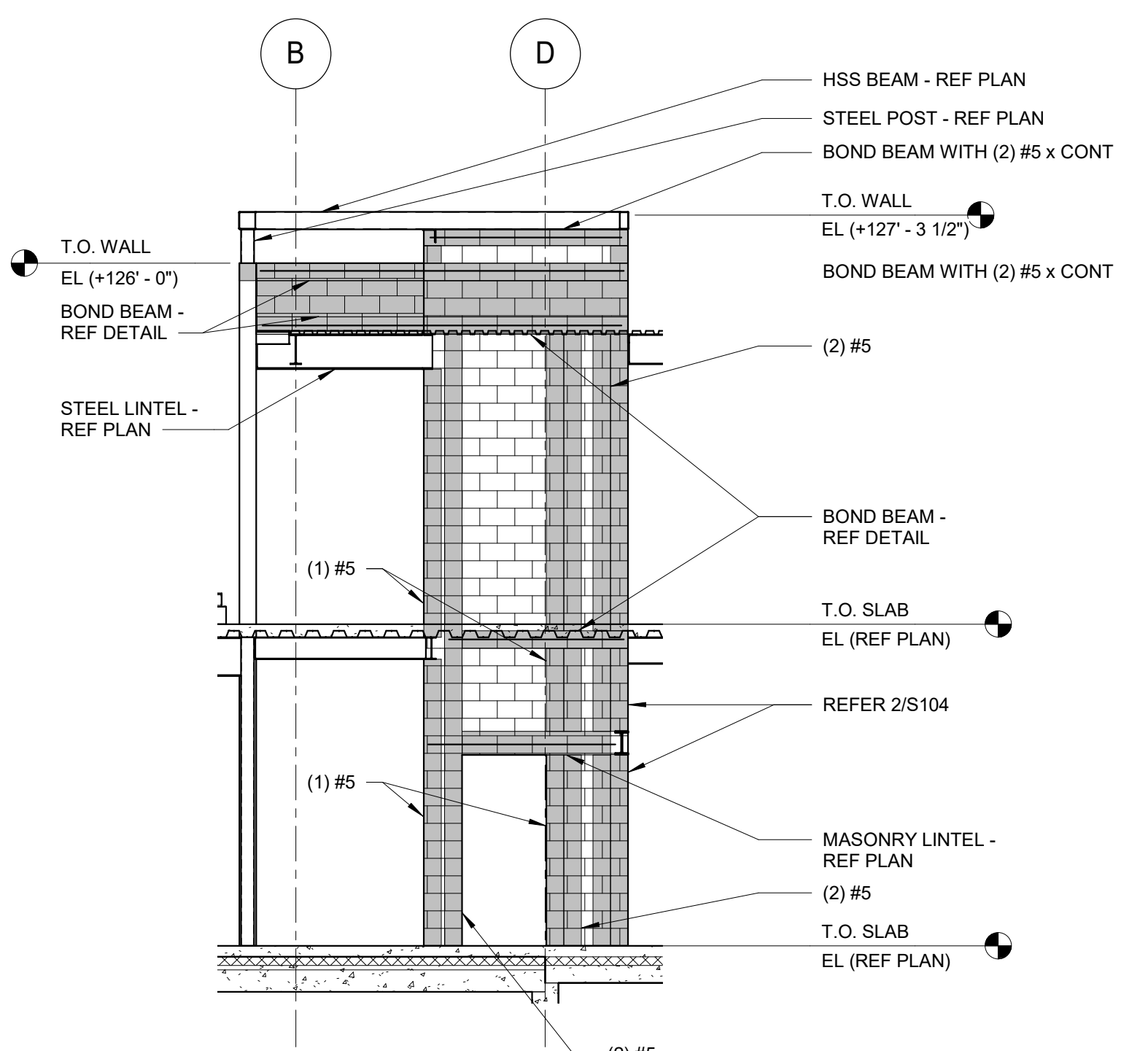
3 MASONRY SHEAR WALL ELEVATION - SOUTH FACE

- 3/16" = 1'-0"
 NOTES:
 1. ELEVATION SHOWN IS LOOKING NORTH.
 2. REFER TO DETAILS 4, 5, AND 6/S301 FOR TYPICAL BEAM BEARING AT THE END OF STEEL LINTELS.
 3. REFER TO 8/S301 FOR CONDITIONS NOT COVERED BY ELEVATION.



4 MASONRY SHEAR WALL ELEVATION - EAST FACE

- 3/16" = 1'-0"
 NOTES:
 1. ELEVATION SHOWN IS LOOKING WEST.
 2. REFER TO DETAILS 4, 5, AND 6/S301 FOR TYPICAL BEAM BEARING AT THE END OF STEEL LINTELS.
 3. REFER TO 8/S301 FOR CONDITIONS NOT COVERED BY ELEVATION.



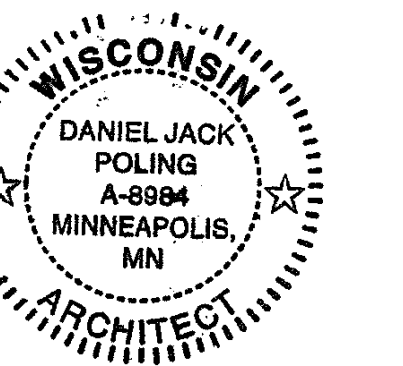
5 MASONRY SHEAR WALL ELEVATION - NORTH FACE

- 3/16" = 1'-0"
 NOTES:
 1. ELEVATION SHOWN IS LOOKING SOUTH.
 2. REFER TO DETAILS 4, 5, AND 6/S301 FOR TYPICAL BEAM BEARING AT THE END OF STEEL LINTELS.
 3. REFER TO 8/S301 FOR CONDITIONS NOT COVERED BY ELEVATION.

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 PROJECT # 1700358.00
 REFERENCE SCALE IN INCHES
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**Olbrich Botanical Gardens
 Expansion Phase 1**
 BPW Project #8162
 3330 Atwood Avenue
 Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.
 ARCHITECT SEAL



Signature: *[Handwritten Signature]*

Print Names: _____

Date: JUNE 1, 2018 License No: _____

MARK	DATE	DESCRIPTION
	12.08.2017	100 PRICING SET
	01.10.2018	DESIGN DEVELOPMENT SUBMISSION
	03.30.2018	70% CD SUBMISSION
	05.04.2018	100% CONSTRUCTION DOCUMENTS
	06.01.2018	BID ISSUE
	06.04.2018	PERMIT ISSUE

PROJECT NO. 2017016

PROJECT PHASE BID DOCUMENTS

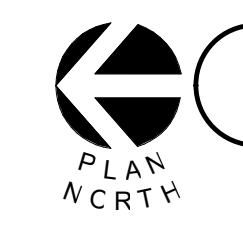
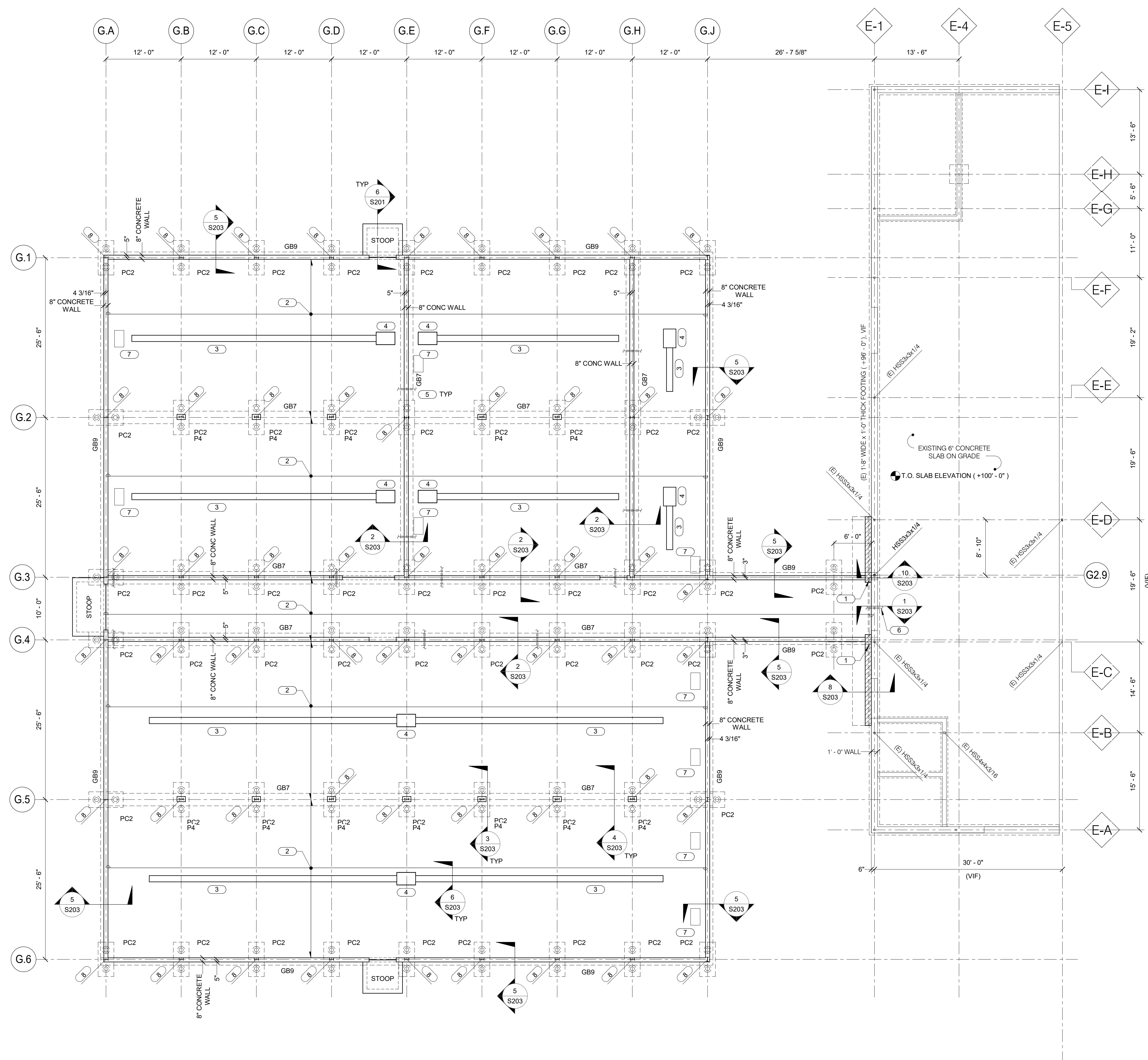
DRAWN BY: SIDBHO CHECKED BY: ABBPER

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GREENHOUSE FOUNDATION PLAN

EXHIBIT G

S111



1 GREENHOUSE FOUNDATION PLAN

1/8" = 1'-0"
 NOTES:

1. PC# INDICATES PILE CAP. REFER TO S202 FOR SCHEDULE AND LOADS. REFER TO S202 FOR DETAILS. TOP OF PILE CAP ELEVATION EXTERIOR (+95'-0"), INTERIOR (+99'-3"), UNO.
2. TOP OF FOUNDATION WALL ELEVATION (+102'-6"), UNO.
3. P# INDICATES CONCRETE PIER. REFER TO S202 FOR DETAILS. TOP OF PIER ELEVATION (+100'-8"), UNO.
4. GB# INDICATES GRADE BEAM. REFER TO S202 FOR GRADE BEAM SCHEDULE.
5. REFER TO S201 FOR TYPICAL STRUCTURAL SLAB CONSTRUCTION DETAILS.
6. PROVIDE 2'-6" x 2'-6" CORNER BARS FOR GRADE BEAM AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
7. REFER TO DETAILS 1, 2 AND 3 ON S201 FOR STRUCTURAL SLAB DETAILS.

KEYNOTES:

1. DOWEL HORIZONTAL WALL AND GRADE BEAM REINFORCING INTO EXISTING CONCRETE 6" WITH ADHESIVE PER S001.
2. SLAB ON INSULATION ON STRUCTURAL SLAB. 5" CONCRETE TOPPING SLAB WITH 6x6 - W2.1W2.1 WWR. TOP OF SLAB = (+100'-0") 4" ASTM D5847 EPS 12 BY GEOWOOL OR EQUIVALENT 8" STRUCTURAL SLAB WITH #6 @ 12" OC TOP AND BOTTOM AND #4 @ 12" OC TEMPERATURE REINFORCING.
3. TRENCH DRAIN: REFER TO 6/203. COORDINATE SIZE AND LOCATION WITH TRADE CONTRACTOR. PROVIDE (2) #5 DIAGONAL BARS IN SLAB AT RE-ENTRANT CORNERS.
4. CATCH BASIN: PROVIDE 2'-0" x 3'-0" OPENING IN STRUCTURAL SLAB - REFER TO 7/S203. COORDINATE SIZE AND LOCATION WITH TRADE CONTRACTOR.
5. SLEEVE UTILITIES THROUGH GRADE BEAM PER 12/S201. THICKEN BOTTOM OF GRADE BEAM TO PROVIDE MINIMUM OF 4" OF CONCRETE AROUND SLEEVE WHERE PIPE INVERT IS NEAR THE BOTTOM.
6. CORE DRILL EXISTING FOUNDATION WALL FOR NEW UTILITY CONNECTION.
7. MANIFOLD BOX: REFER TO 6/S203 SIM. COORDINATE SIZE AND LOCATION WITH TRADE CONTRACTOR.
8. COLUMN AND ANCHORS BY GREENHOUSE SUPPLIER.

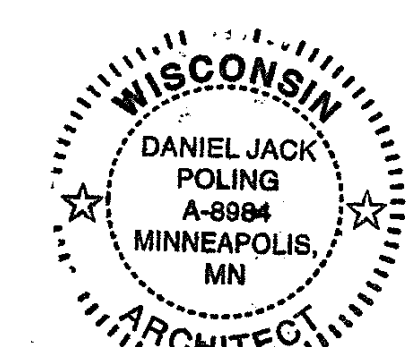
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Signature: *Daniel Jack Poling*

Print Name: DANIEL JACK POLING

Date: JUNE 1, 2018 License No.:

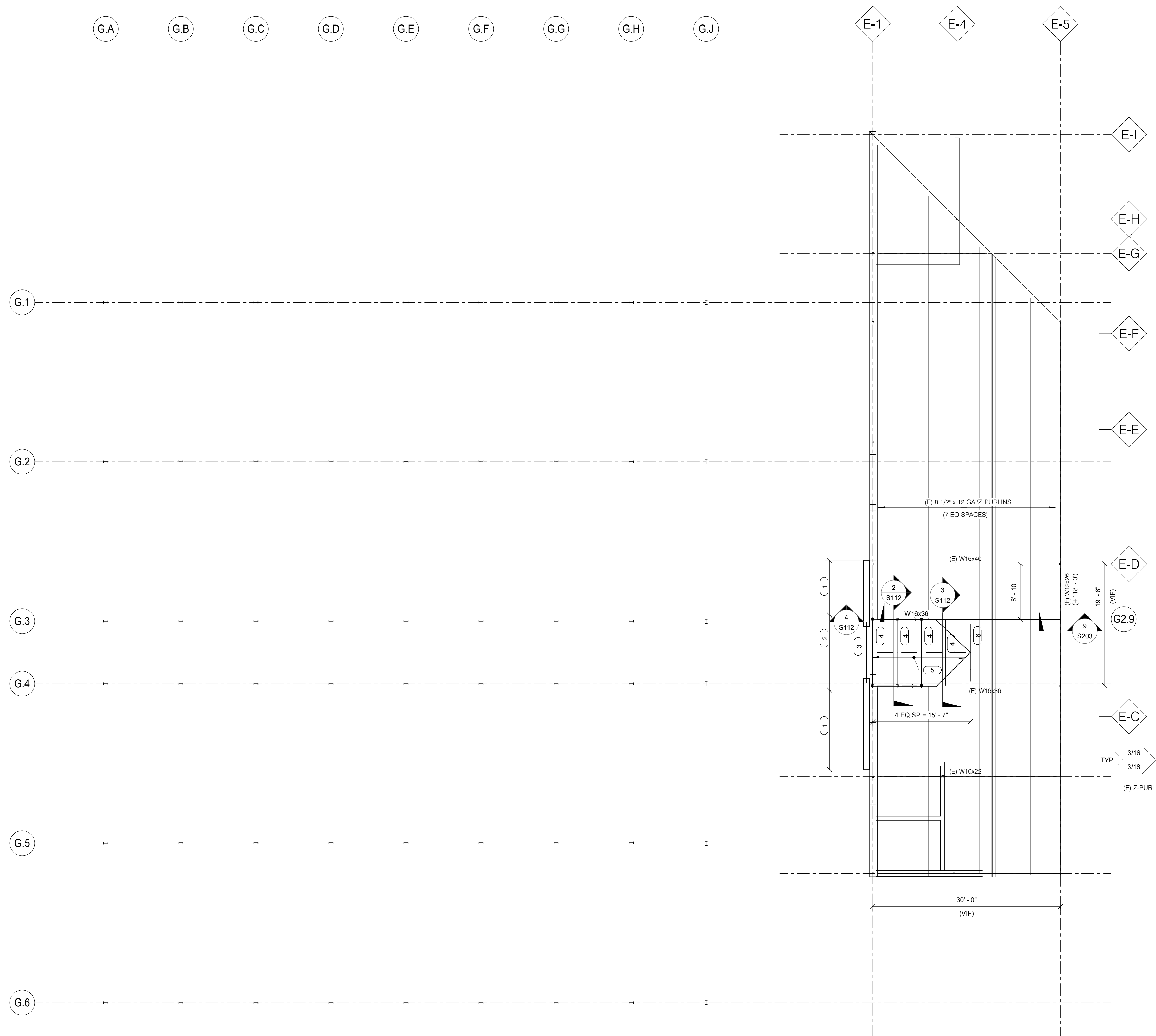
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**GREENHOUSE
 ROOF FRAMING PLAN**

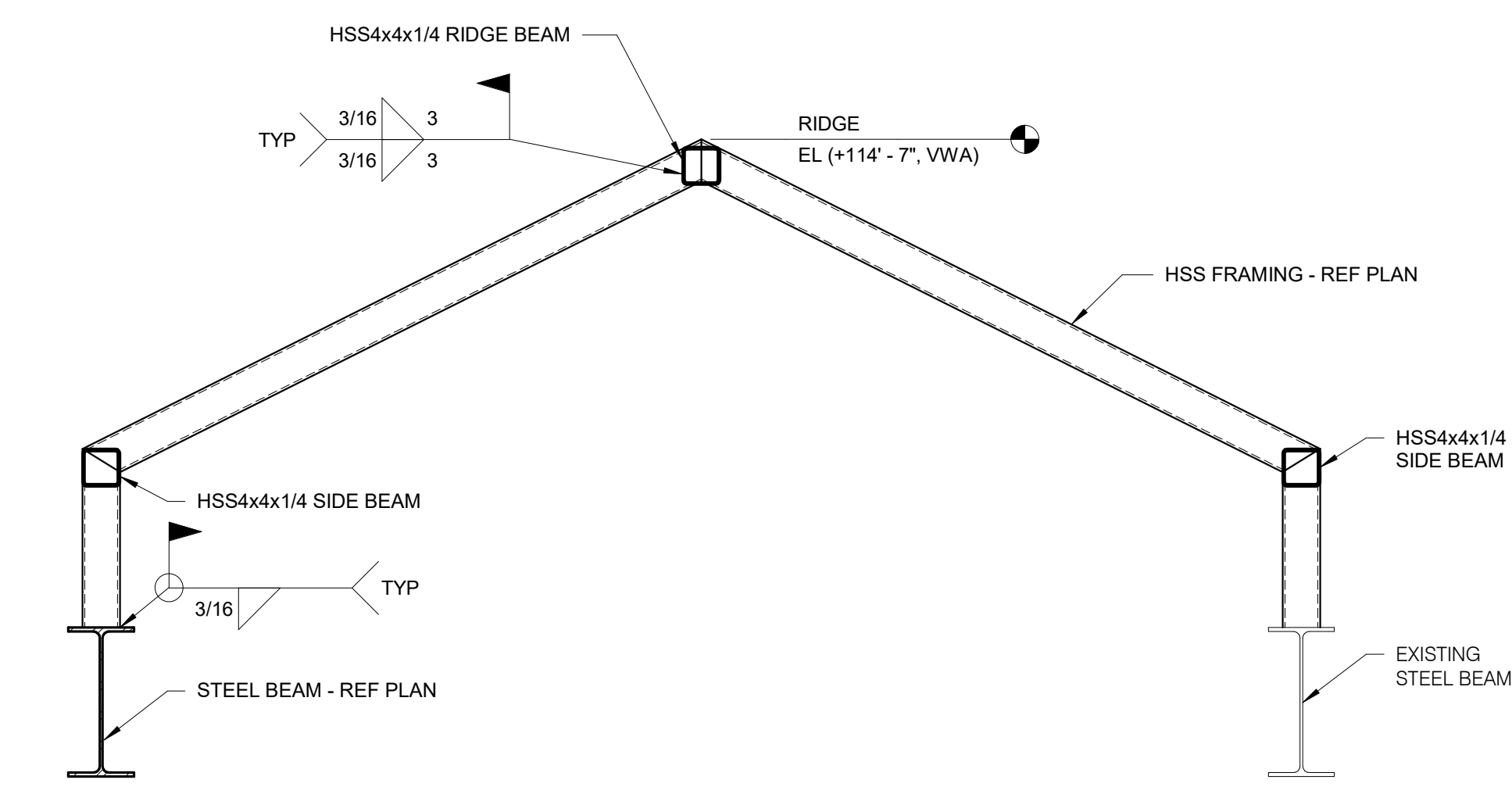
EXHIBIT G

S112

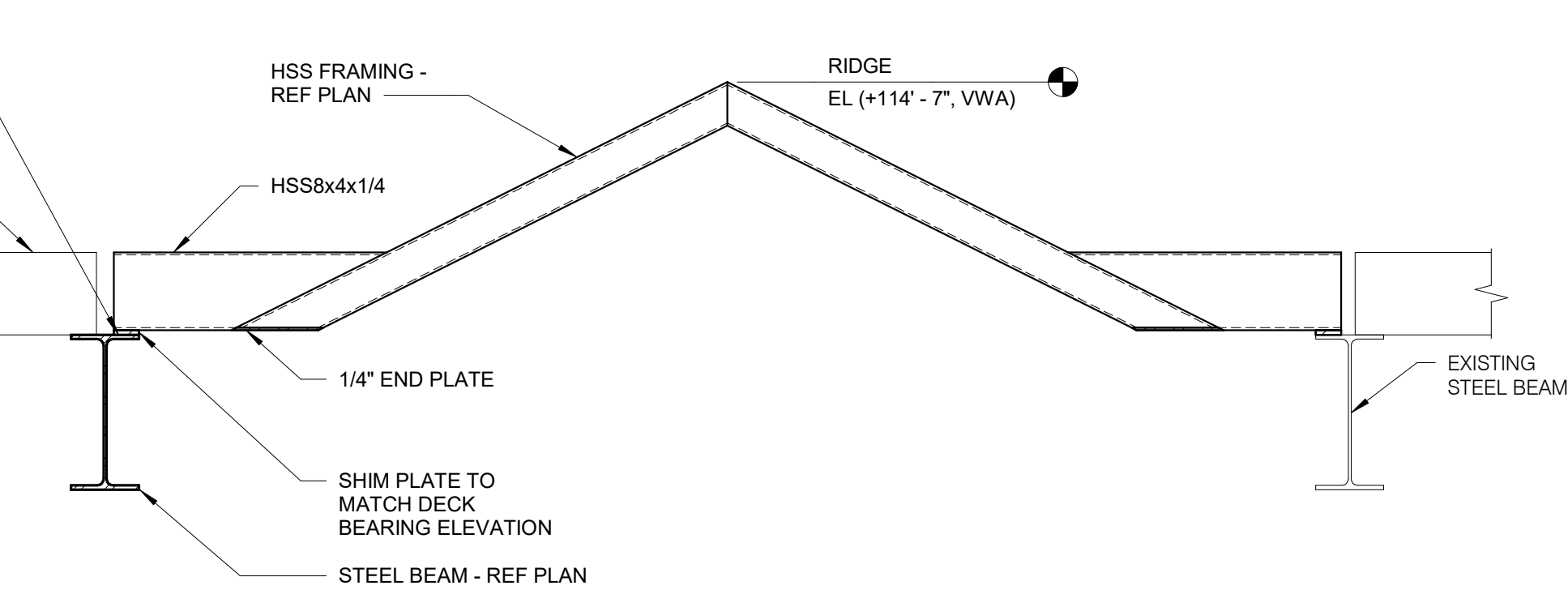


1 GREENHOUSE ROOF FRAMING PLAN
 1/8" = 1'-0"

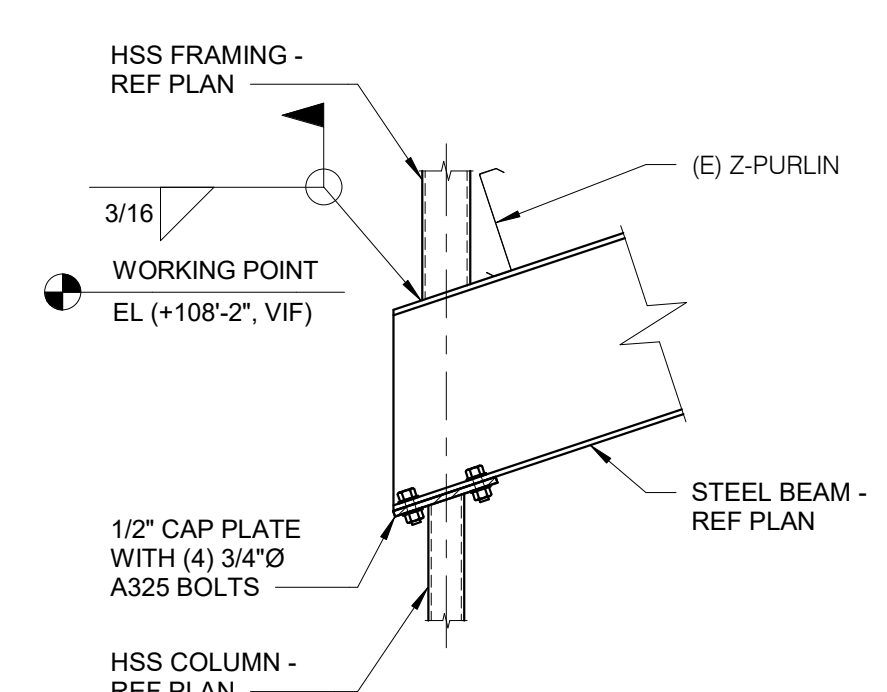
- KEYNOTES:
- 12" CMU WALL WITH (2) #6 @ 24" OC VERTICAL AND 'DUROWALL - LADDER TYPE' HORIZONTAL REINFORCING @ 18" OC.
 - 12" CMU WALL WITH (2) #6 @ 8" OC VERTICAL AND 'DUROWALL - LADDER TYPE' HORIZONTAL REINFORCING @ 18" OC.
 - PROVIDE 8" DEEP BOND BEAM LINTEL WITH (2) #5 BARS AND 8" BEARING EACH END ABOVE THE DOOR AND ABOVE THE MEP PIPING/CONDUIT OPENINGS.
 - HSS4x4x1/4 FRAME
 - 1 1/2" (20 GA) STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (2) WITH 5/8" PUDDLE WELDS AND #10 SIDELAPS SCREWS.
 - HSS8x4x1/4



2 FRAMING DETAIL
 3/4" = 1'-0"



3 FRAMING DETAIL
 3/4" = 1'-0"



4 FRAMING DETAIL
 3/4" = 1'-0"

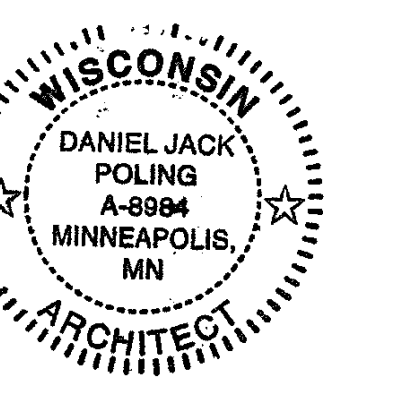
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Signature: *Daniel Jack Poling*

Print Name: DANIEL JACK POLING

Date: JUNE 1, 2018 License No.:

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		06.04.2018	PERMIT ISSUE

PROJECT NO. 2017016

PROJECT PHASE BID DOCUMENTS

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**FOUNDATION
 DETAILS**

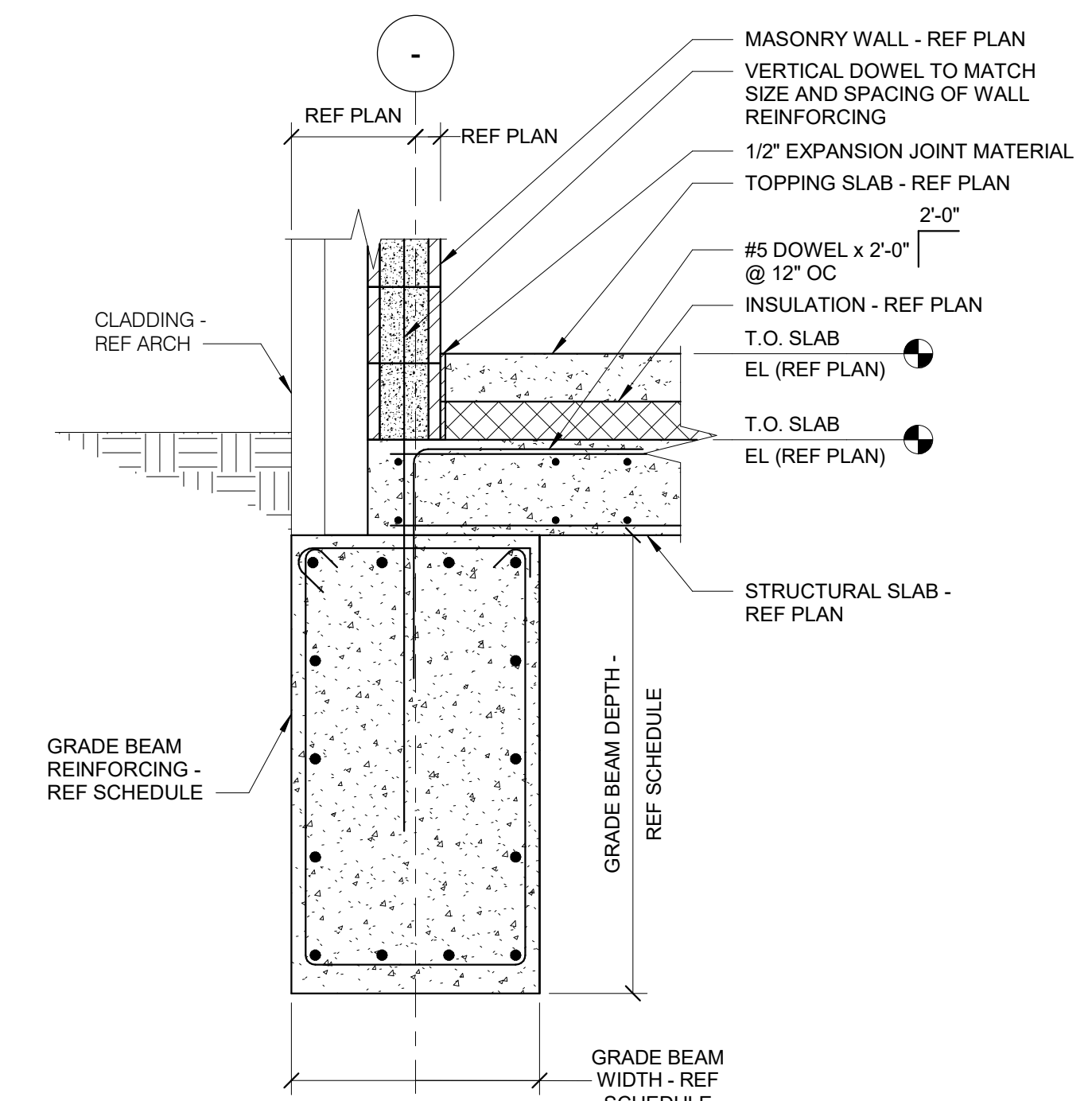
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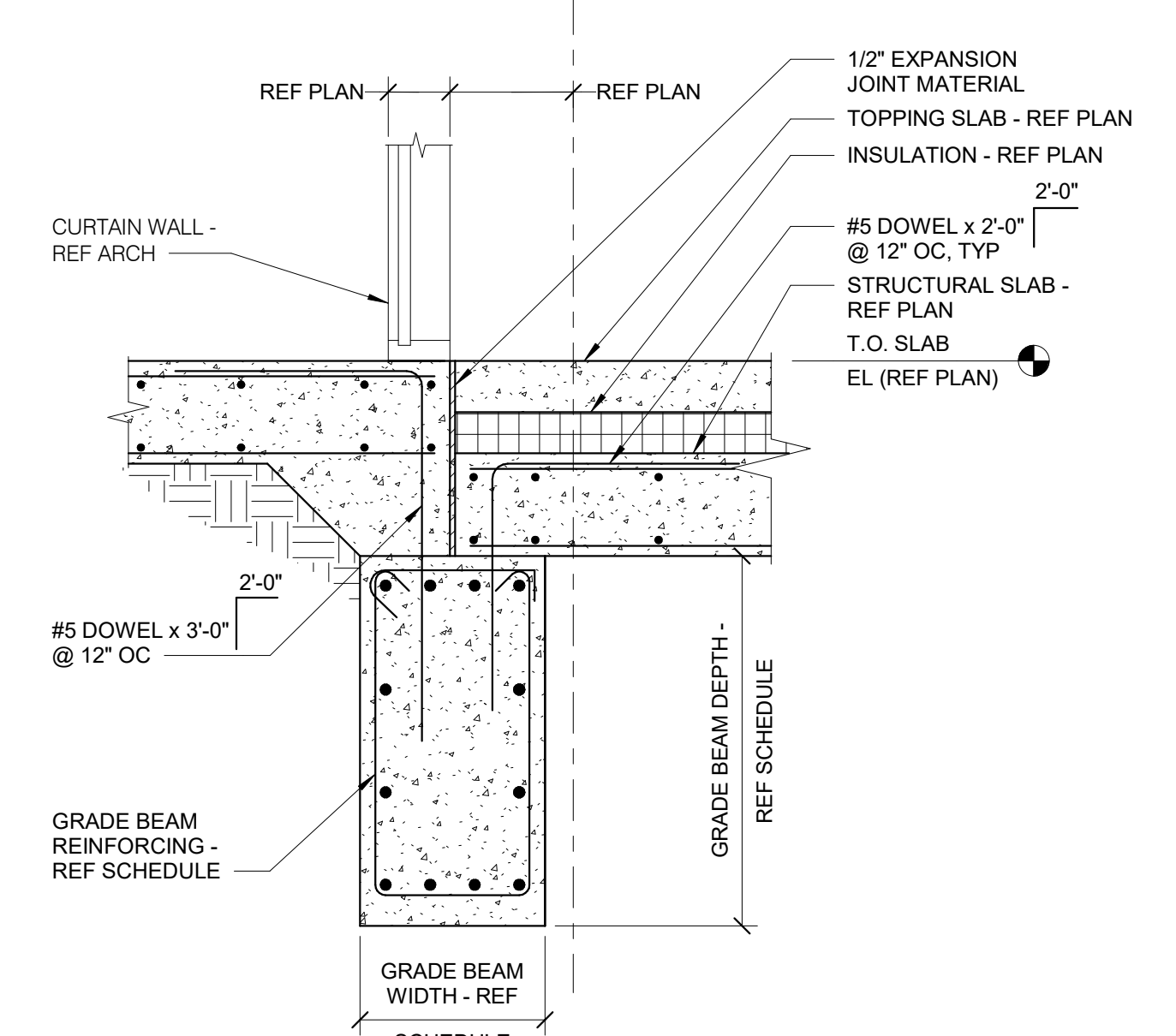
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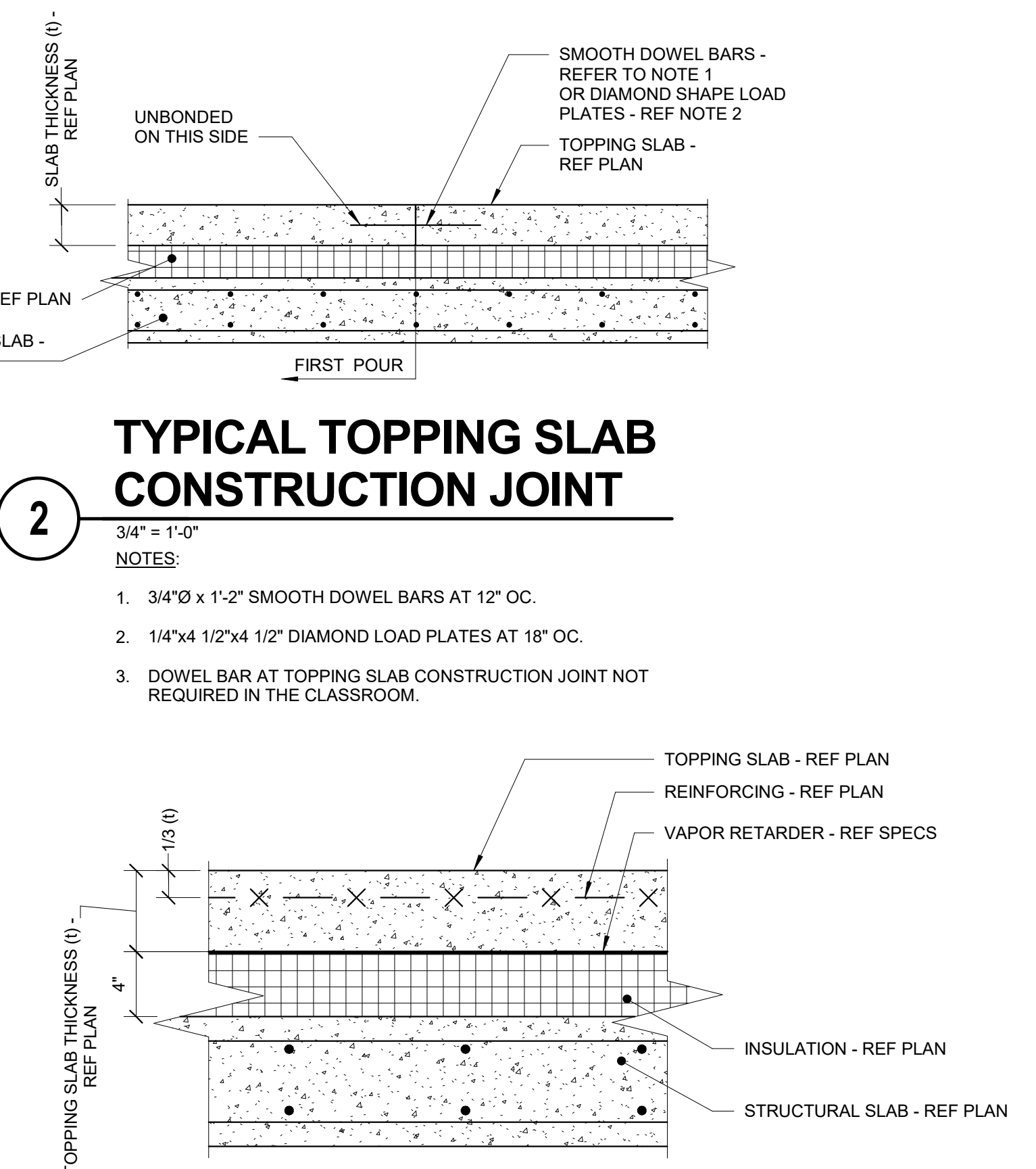
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5 EXTERIOR WALL DETAIL
 3/4" = 1'-0"

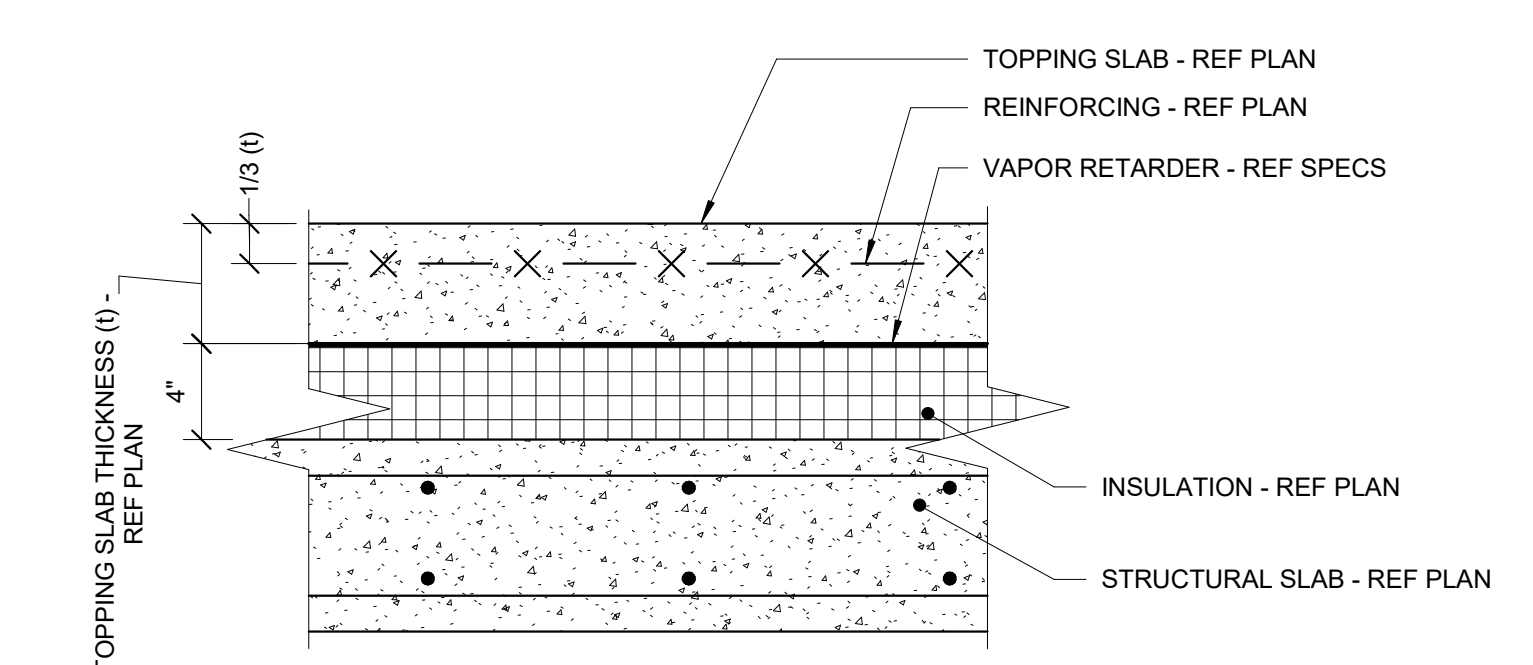


4 CURTAIN WALL CURB DETAIL
 3/4" = 1'-0"

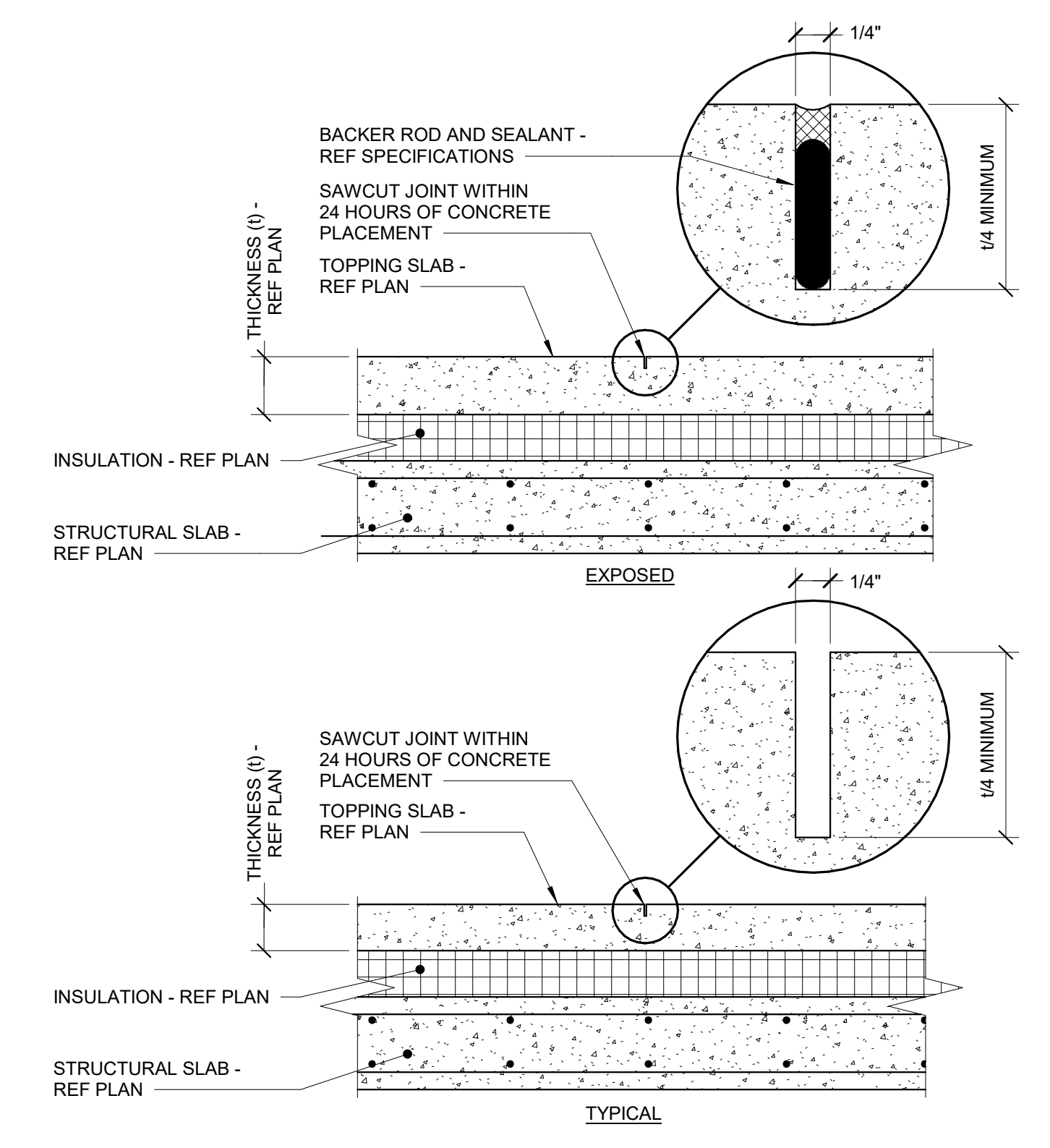


2 TYPICAL TOPPING SLAB CONSTRUCTION JOINT
 3/4" = 1'-0"

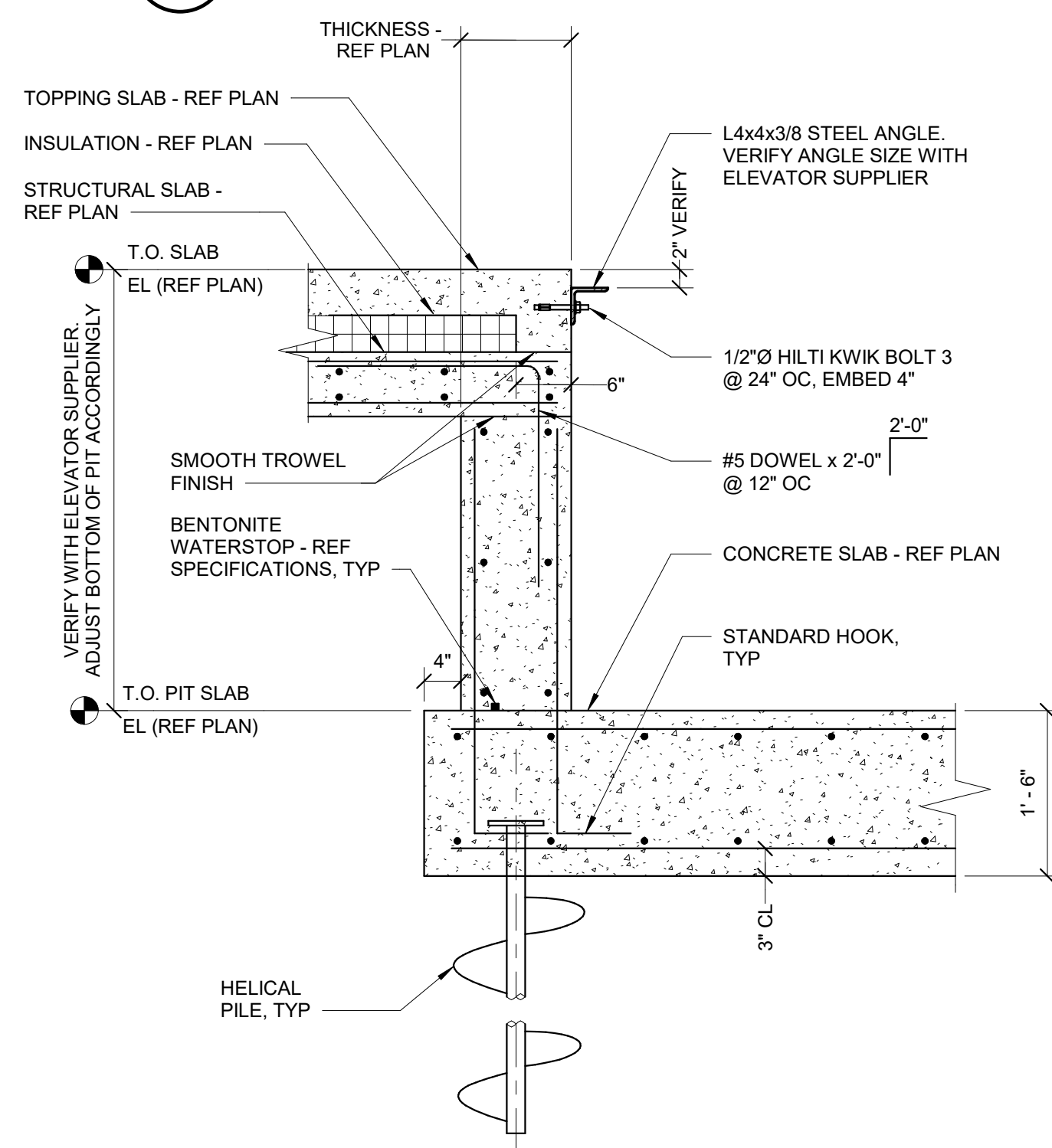
- NOTES:
- 3/4"Ø x 1'-2" SMOOTH DOWEL BARS AT 12" OC.
 - 1/4" x 1/2" x 1/2" DIAMOND LOAD PLATES AT 18" OC.
 - DOWEL BAR AT TOPPING SLAB CONSTRUCTION JOINT NOT REQUIRED IN THE CLASSROOM.



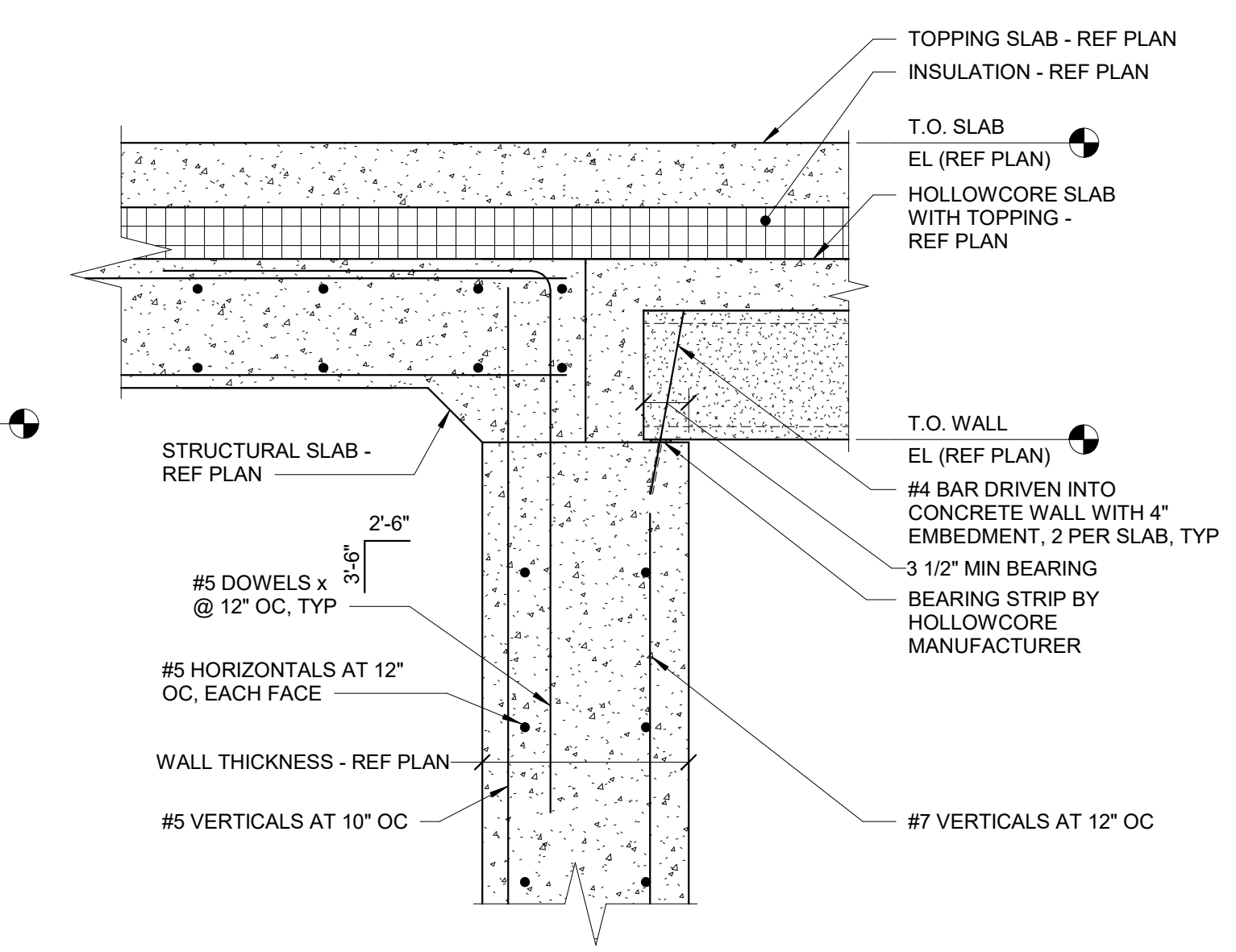
3 TYPICAL TOPPING SLAB SECTION
 1 1/2" = 1'-0"



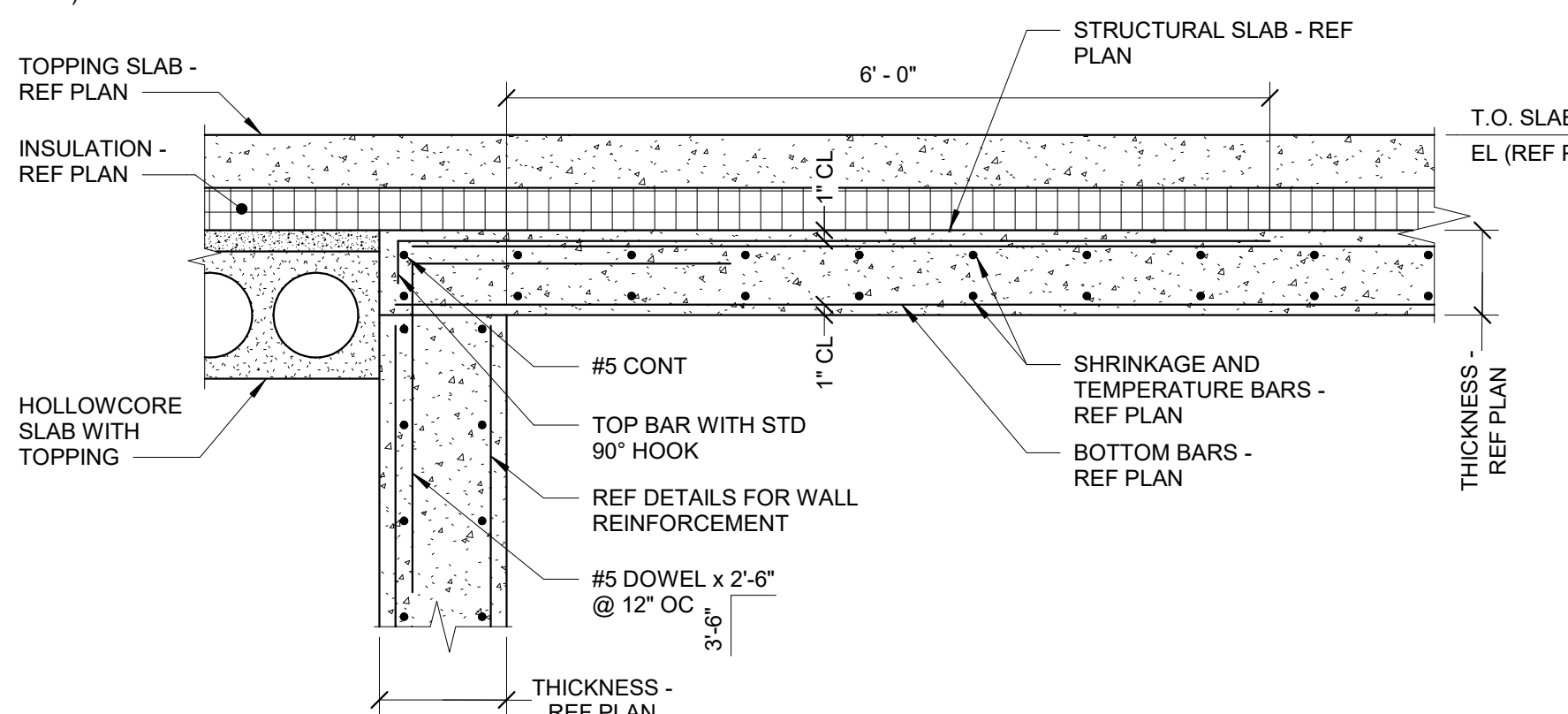
1 TYPICAL TOPPING SLAB CONTROL JOINT
 1" = 1'-0"



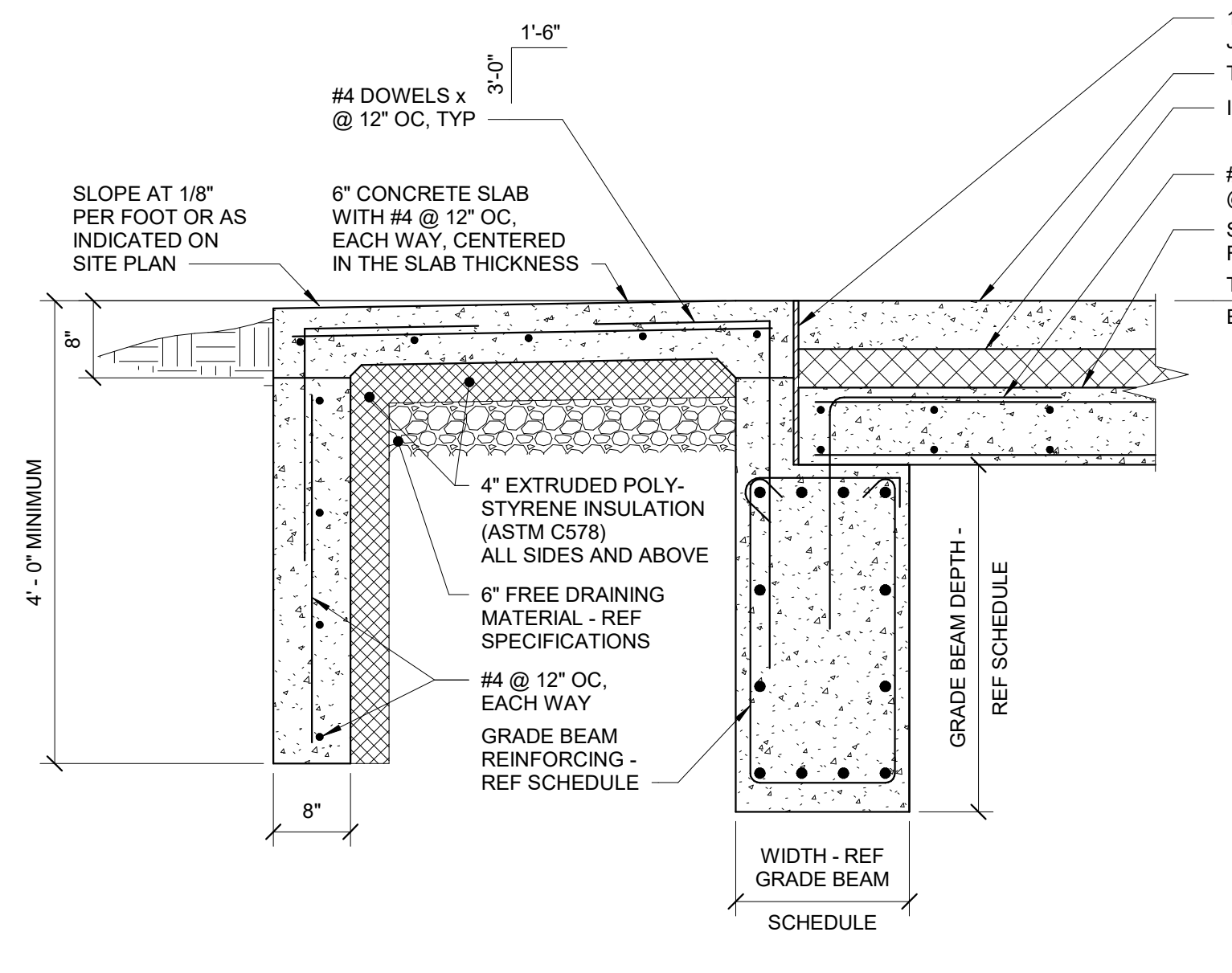
9 ELEVATOR PIT SECTION
 3/4" = 1'-0"



8 HOLLOW CORE BEARING DETAIL
 1" = 1'-0"

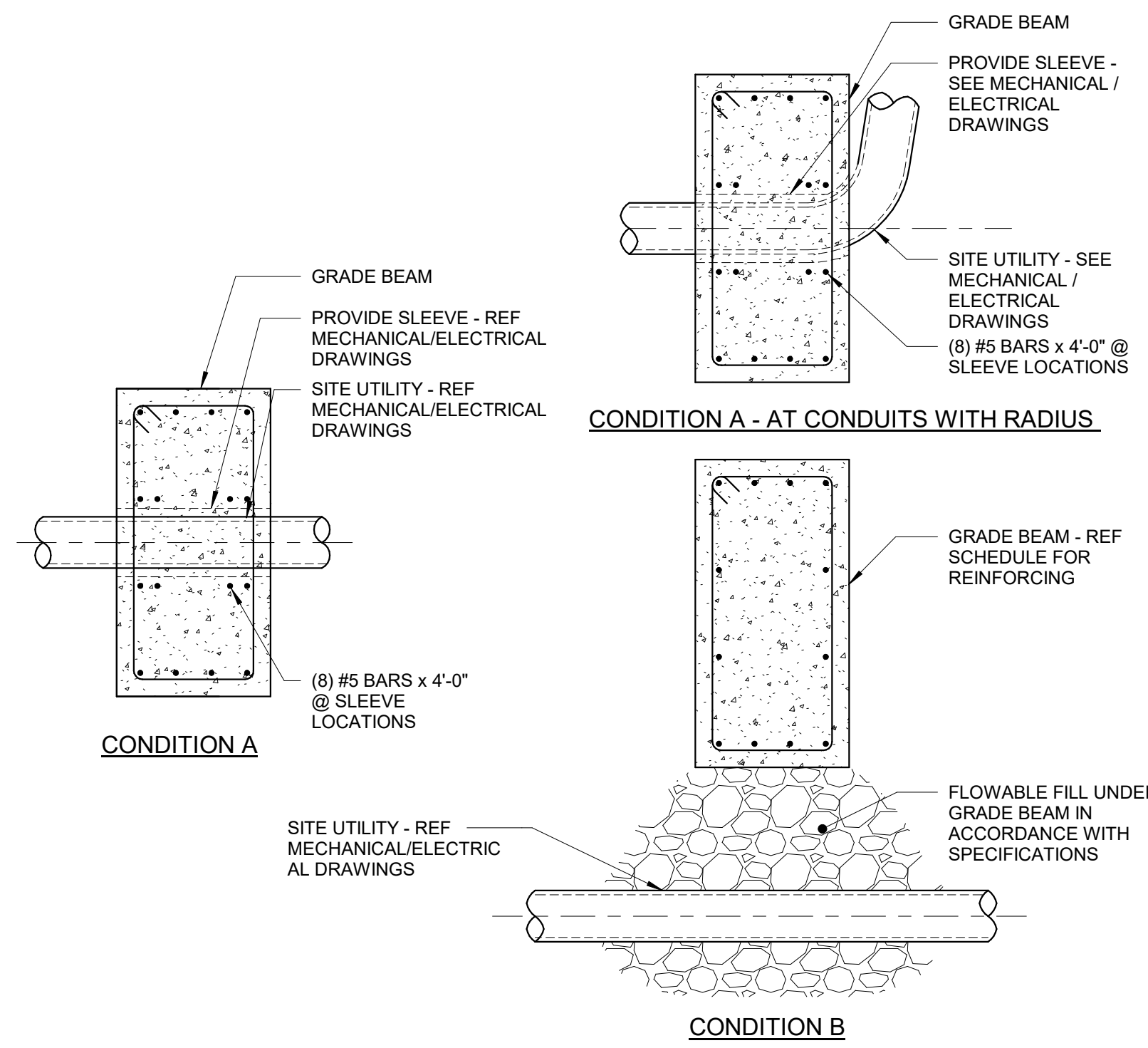


7 TYPICAL ONE WAY SECTION
 3/4" = 1'-0"



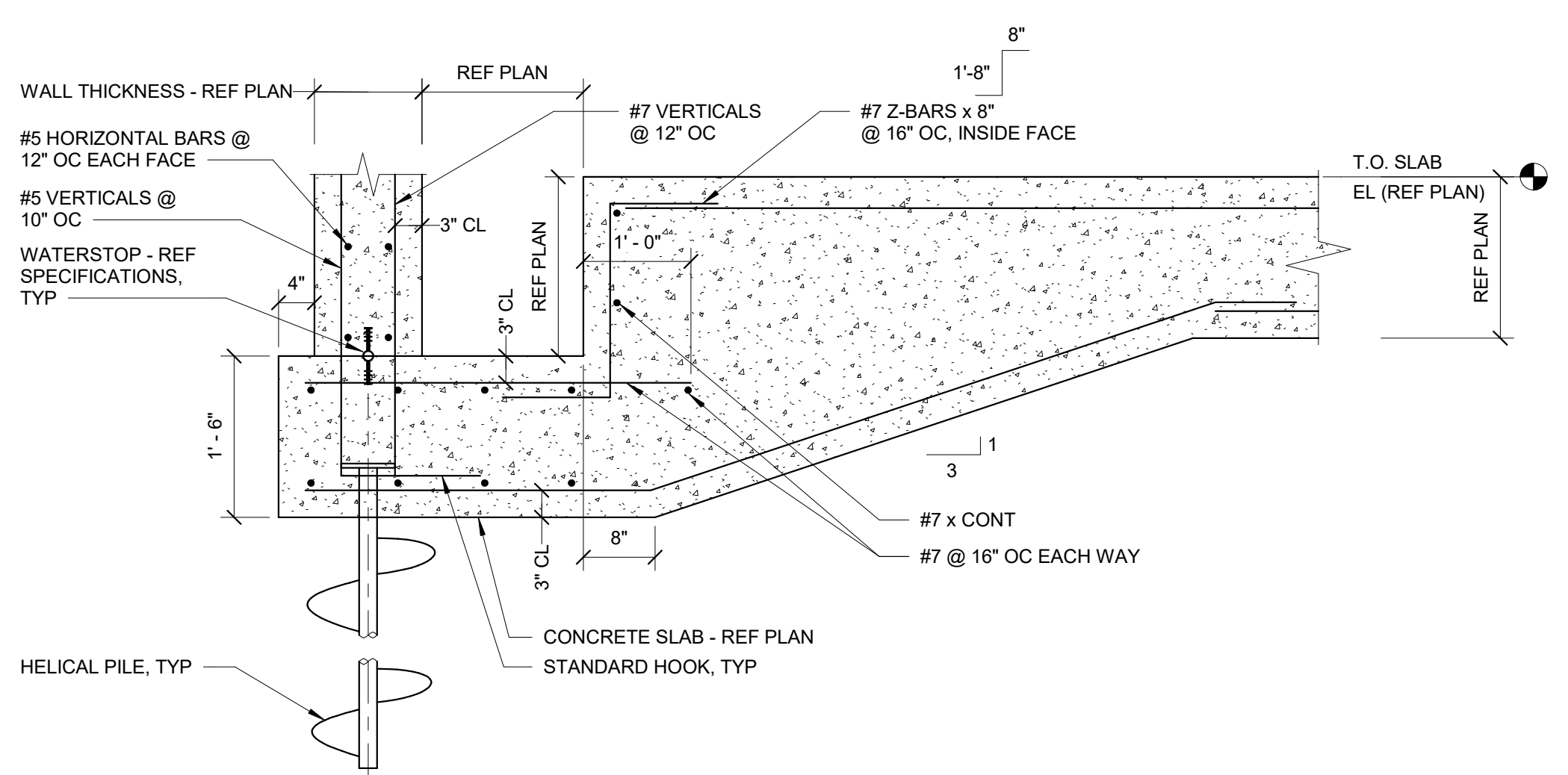
6 TYPICAL STOOP SECTION
 3/4" = 1'-0"

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

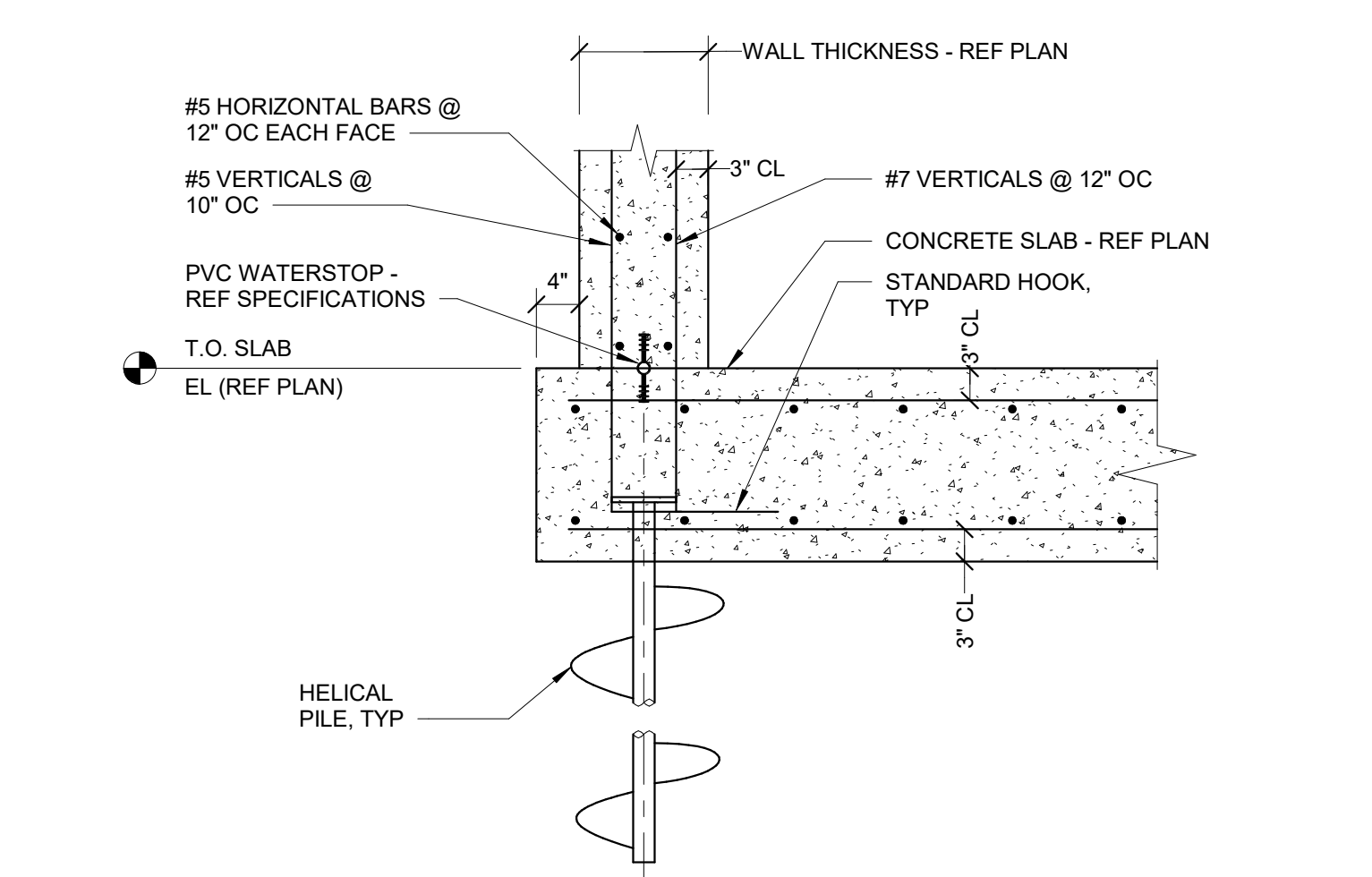


12 TYPICAL FOUNDATION DETAILS AT SITE UTILITIES
 3/4" = 1'-0"

- NOTES:
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC. OF SITE UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD SUCH A CONDITION ARISE AND AWAIT FURTHER INSTRUCTIONS.

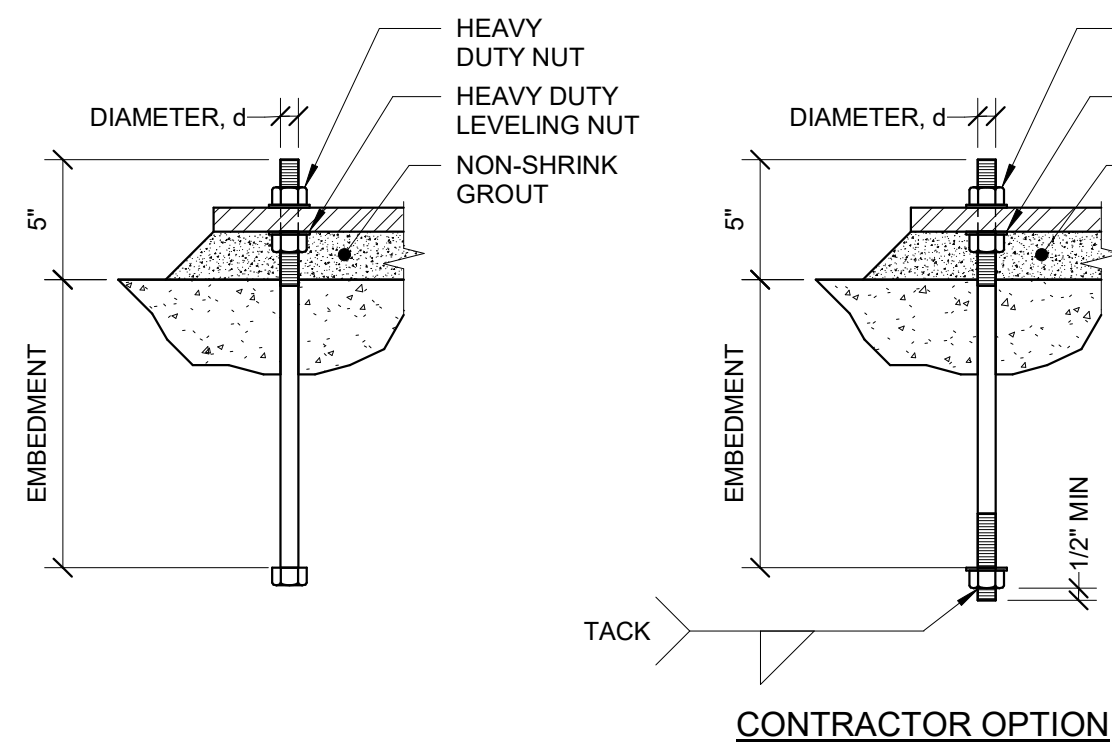


11 SUMP PIT IN MAT SLAB DETAIL
 3/4" = 1'-0"



10 WALL BEARING ON MAT SLAB DETAIL
 3/4" = 1'-0"

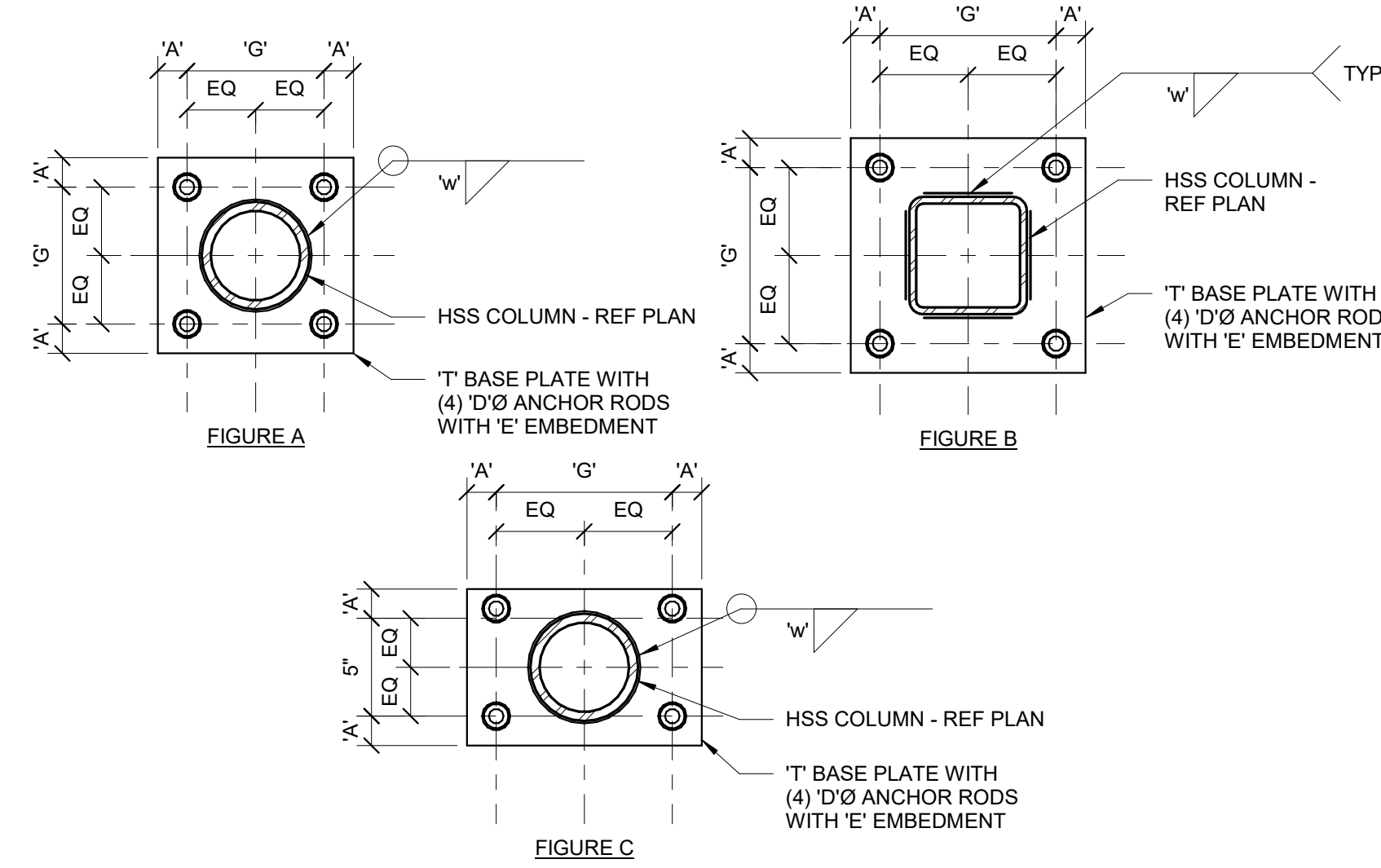
Drawing © 2017 Copyright West, Shover & Ruskowski, Ltd. 1/2018 10:16:28 AM C:\Drawings\Projects\1709058\01_1709058.dwg, Sheet: S201, User: jacob@msrdesign.com



1 TYPICAL ANCHOR ROD

1 1/2" = 1'-0"
NOTES:

- REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
- REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
- ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
- PROTECT ANCHOR RODS FROM DAMAGE.
- ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
 - 1/8" CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
 - 1/4" CENTER TO CENTER OF ADJACENT ANCHOR ROD GROUPS.
 - ELEVATION OF THE TOP OF ANCHOR RODS ± 1/2".
 - MAXIMUM ACCUMULATION OF 1/4" PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
 - 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
 - REFERENCE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.
- SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE, UNLESS NOTED OTHERWISE.
- PROVIDE 1 1/2" NON-SHRINK GROUT AT ALL BASE PLATES.



2 HSS COLUMN BASE PLATE DETAIL

1 1/2" = 1'-0"
NOTES:

- REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.
- NO WELDS REQUIRED AT RADII OF SQUARE COLUMNS.

MARK	COLUMN	T	G	A	D	E	W	COMMENTS
BP1A	HSS5.5	3/4"	7"	1 1/2"	3/4"	9"	1/4"	FIGURE A
BP1B	HSS4x4	3/4"	7"	1 1/2"	3/4"	9"	1/4"	FIGURE B
BP1C	HSS5.5	1"	10"	1 1/2"	3/4"	9"	1/4"	FIGURE C

3 PIER (P1) DETAIL

3/4" = 1'-0"

- #4 TIES @ 12" OC
- #4 CROSS-TIES @ 12" OC
- (8) #6 VERTICAL



4 PIER (P2) DETAIL

3/4" = 1'-0"

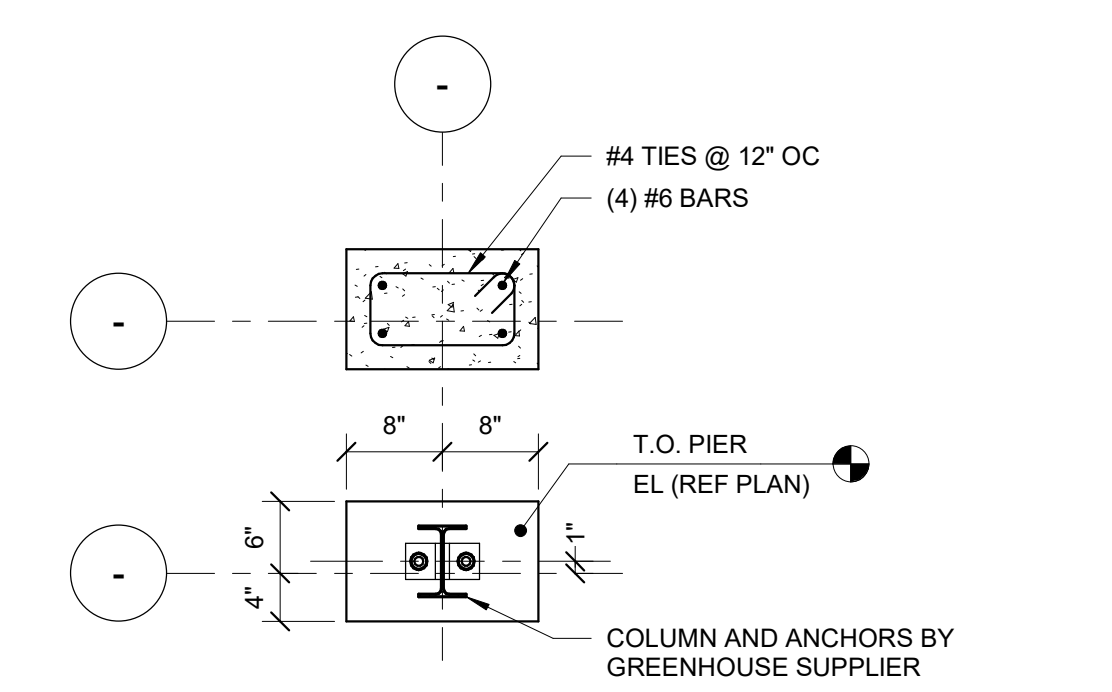
- (8) #8 VERT
- #4 TIES AND CROSS-TIES; (3) @ 3" OC AT TOP, REMINDER @ 12" OC



5 PIER (P3) DETAIL

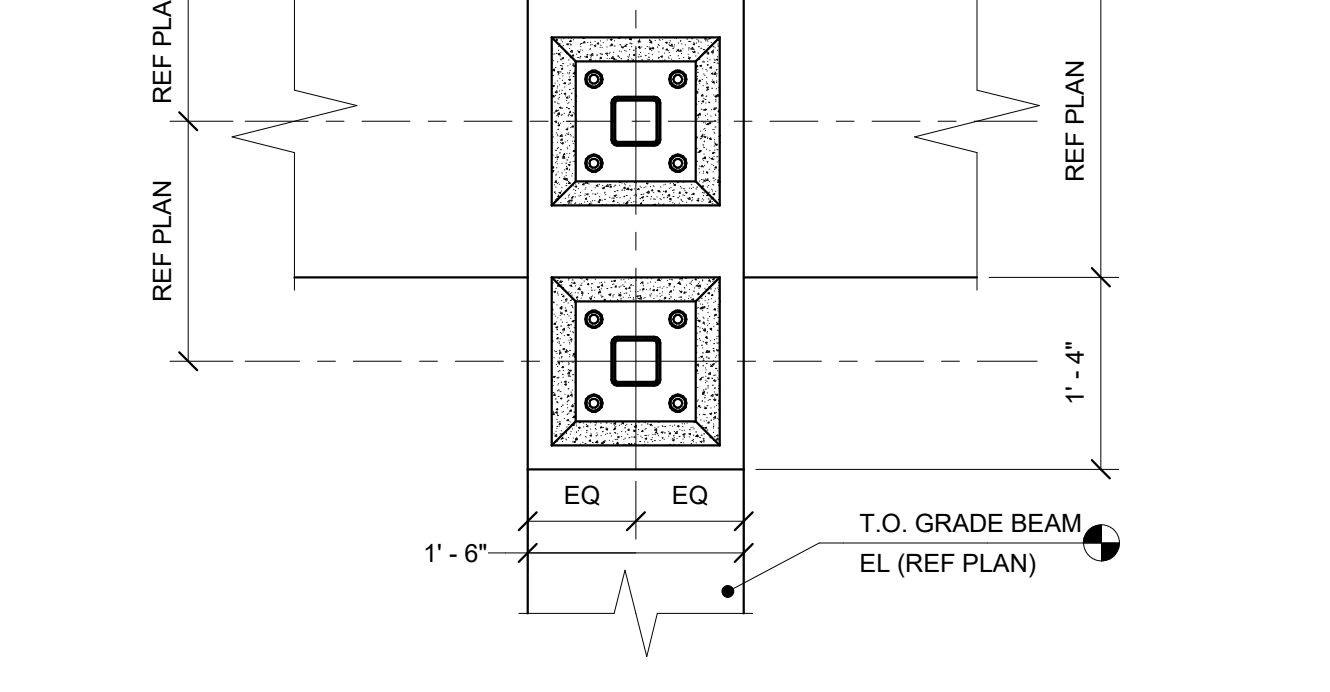
3/4" = 1'-0"

- #4 TIES @ 12" OC
- #4 CROSS-TIES @ 12" OC
- (8) #5 VERTICAL



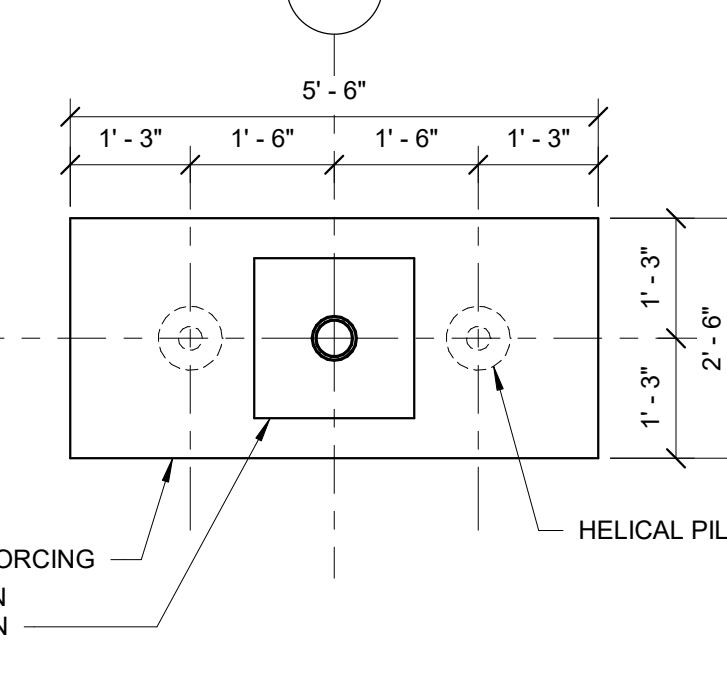
6 PIER (P4) DETAIL

3/4" = 1'-0"



7 PIER (P5) DETAIL

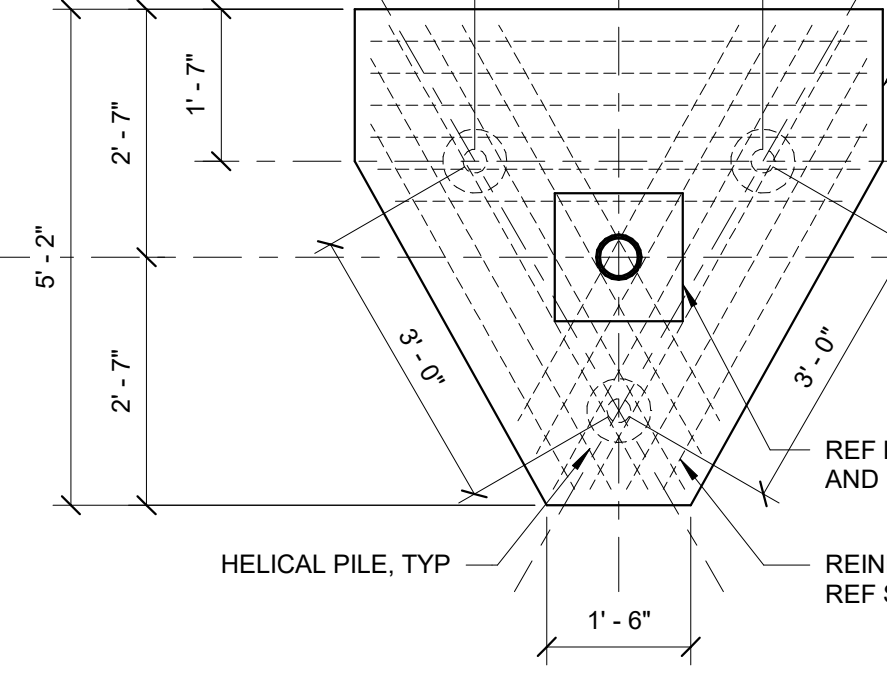
3/4" = 1'-0"



8 PILE CAP (PC2) DETAIL

1/2" = 1'-0"
NOTES:

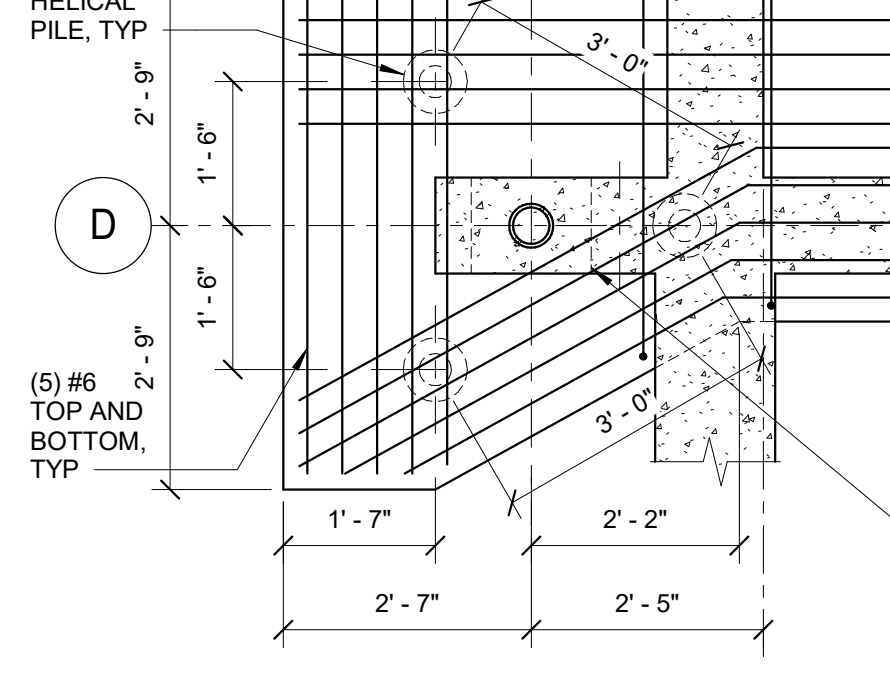
- UNLESS NOTED OTHERWISE, CAP CENTERLINE AND COLUMN GRID LOCATIONS COINCIDE.



9 PILE CAP (PC3) DETAIL

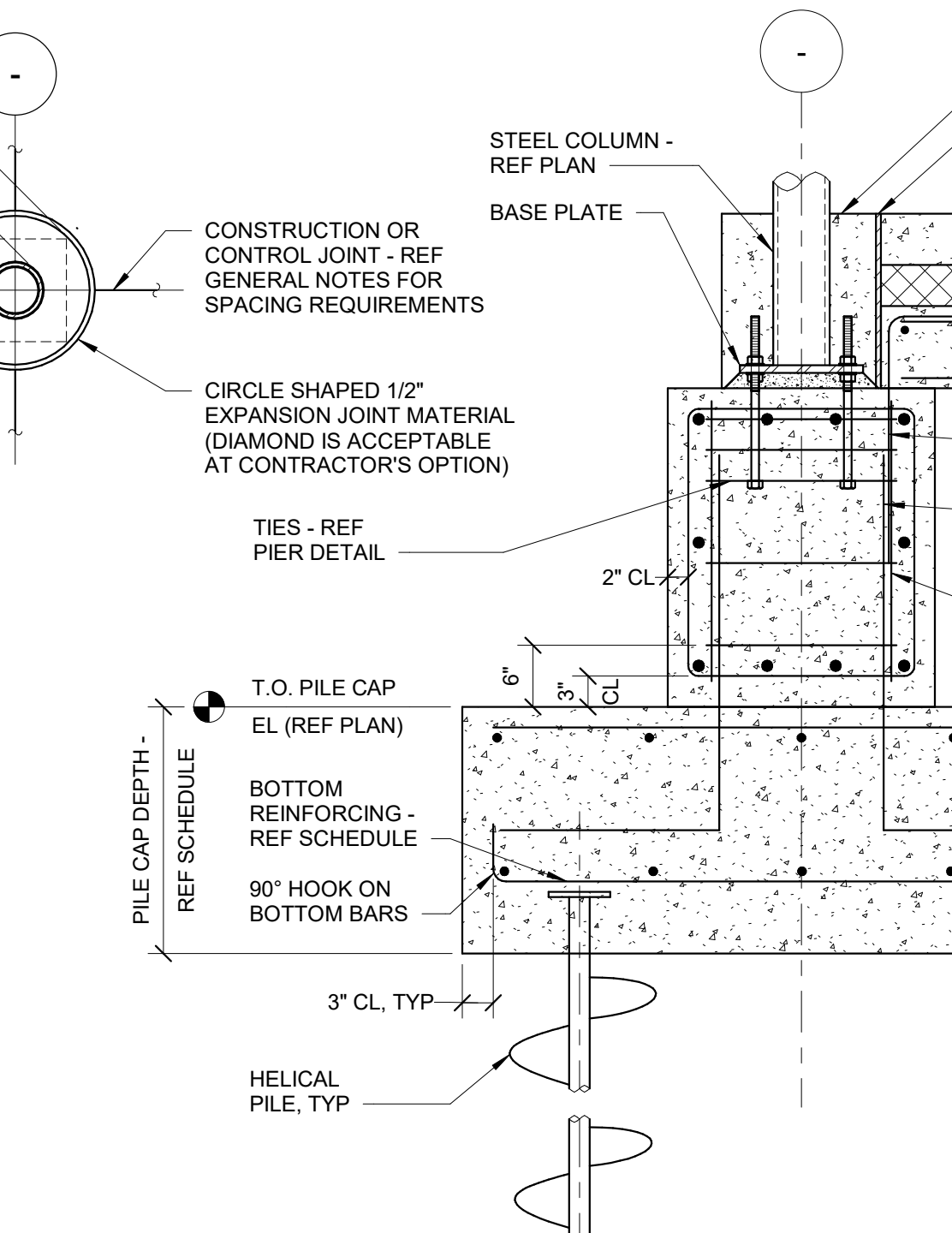
1/2" = 1'-0"
NOTES:

- UNLESS NOTED OTHERWISE, CAPS ARE CENTERED UNDER COLUMNS OR GRADE BEAMS.



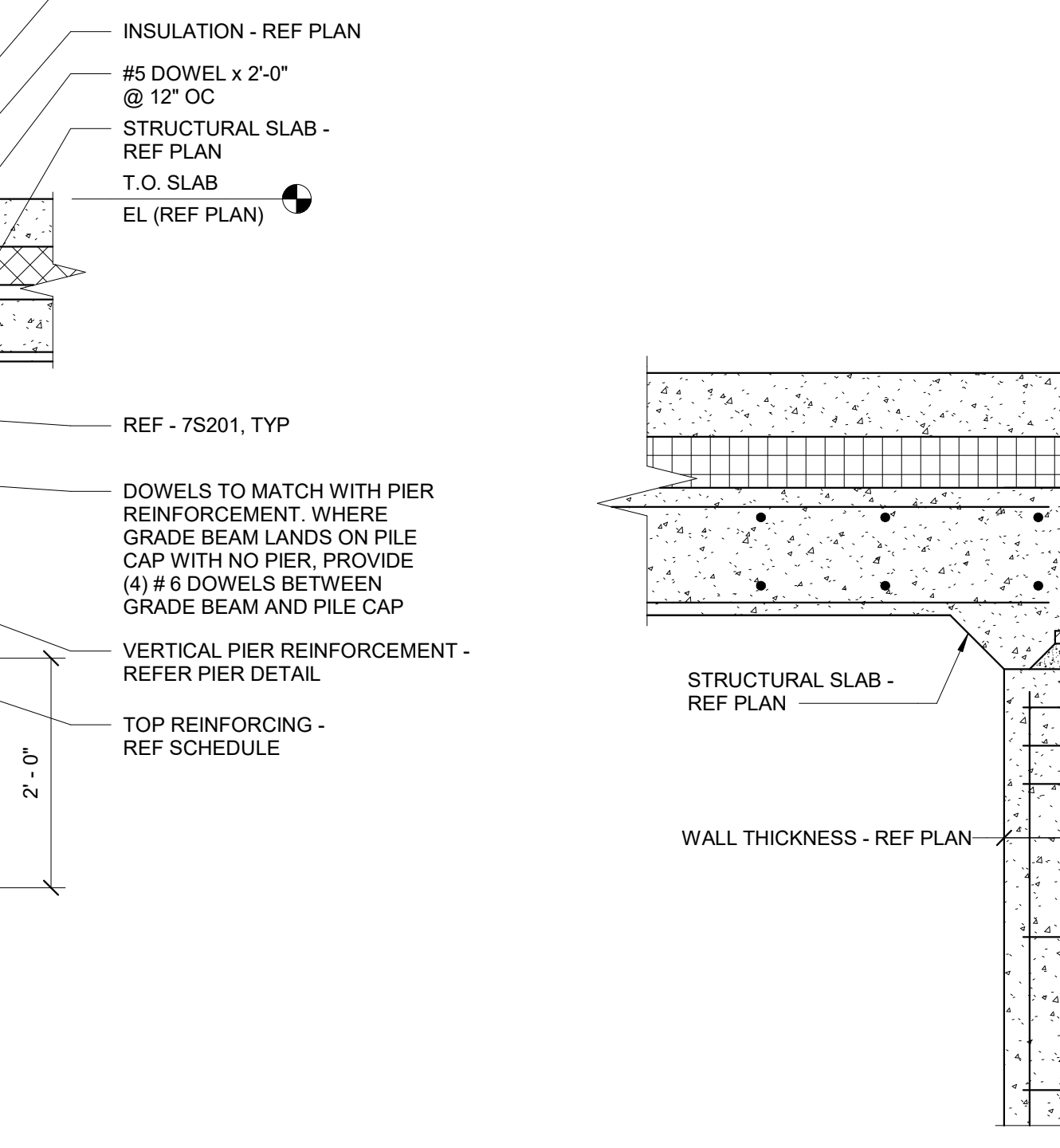
10 SLAB EXTENSION DETAIL

1/2" = 1'-0"



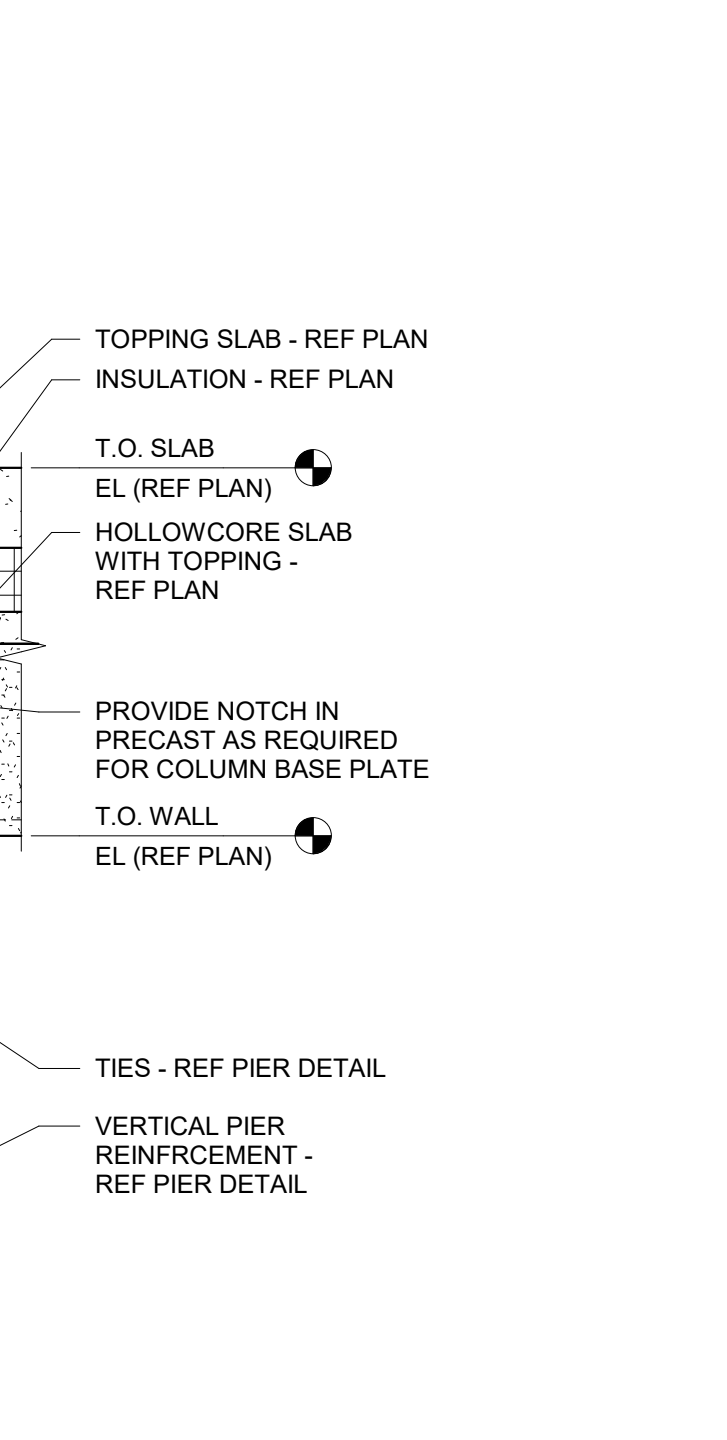
11 TYPICAL PILE CAP SECTION

3/4" = 1'-0"



12 COLUMN BEARING ON WALL DETAIL

1" = 1'-0"



13 TYPICAL HOLLOW CORE SLAB HEADER DETAIL

1" = 1'-0"

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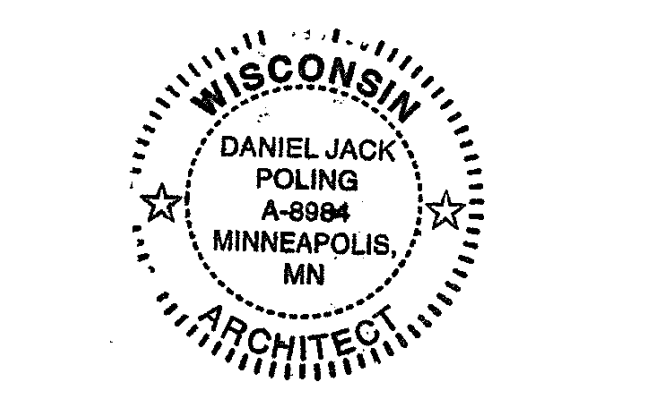
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651.379.9120 tel

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Summit Fire Consulting
575 Minnehaha Ave West
St. Paul, MN 55103
651.251.1880 tel

Greenhouse Design
Rough Brothers, Inc.
5513 Vine Street
Cincinnati, OH 45217
513.242.0310 tel

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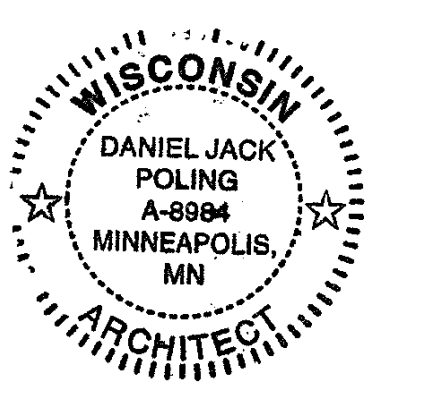
PROJECT NO.	2017016
PROJECT PHASE	BID DOCUMENTS
DRAWN BY:	SIDBHO
CHECKED BY:	ABPPER

FOUNDATION DETAILS

EXHIBIT G
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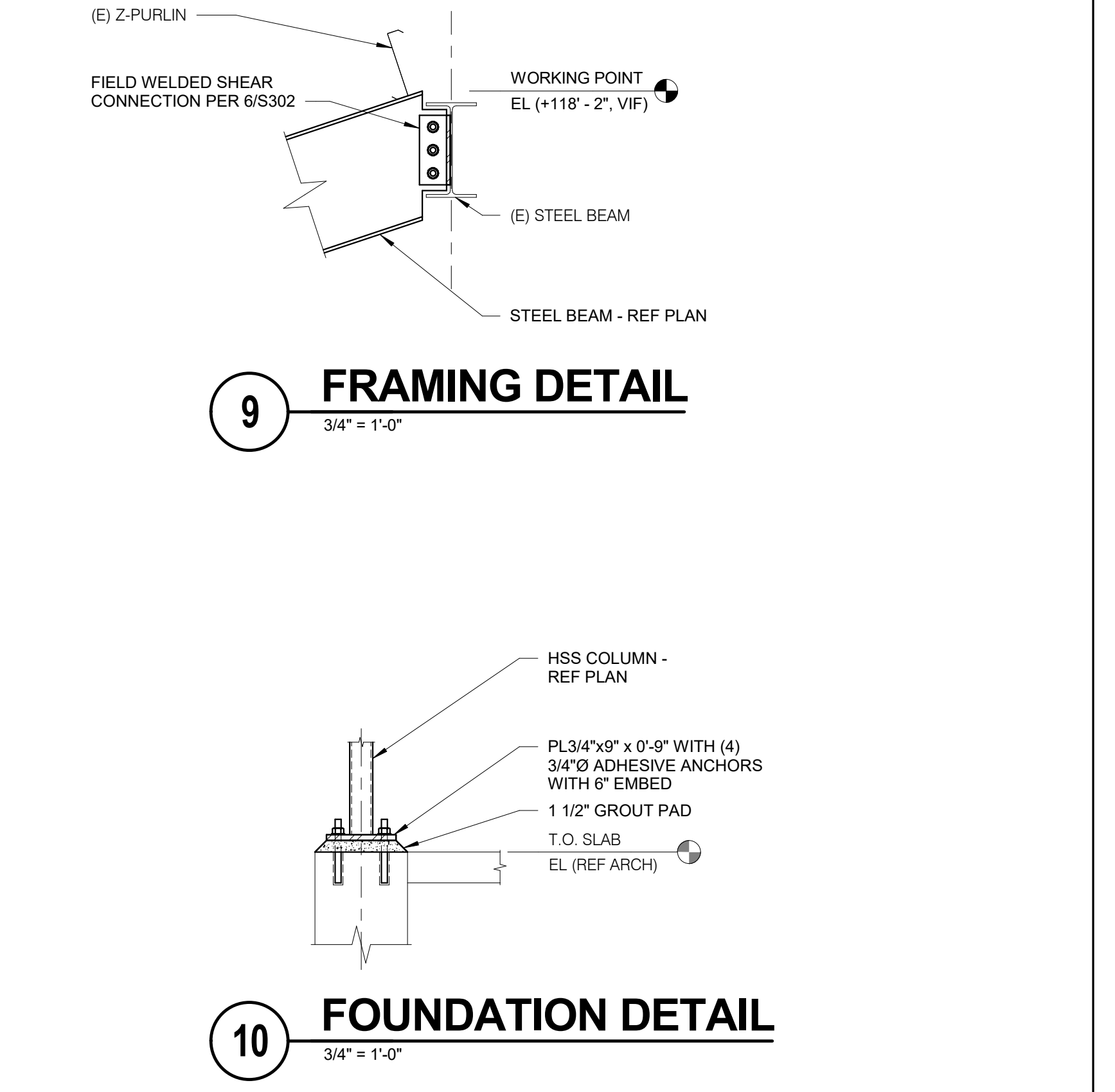
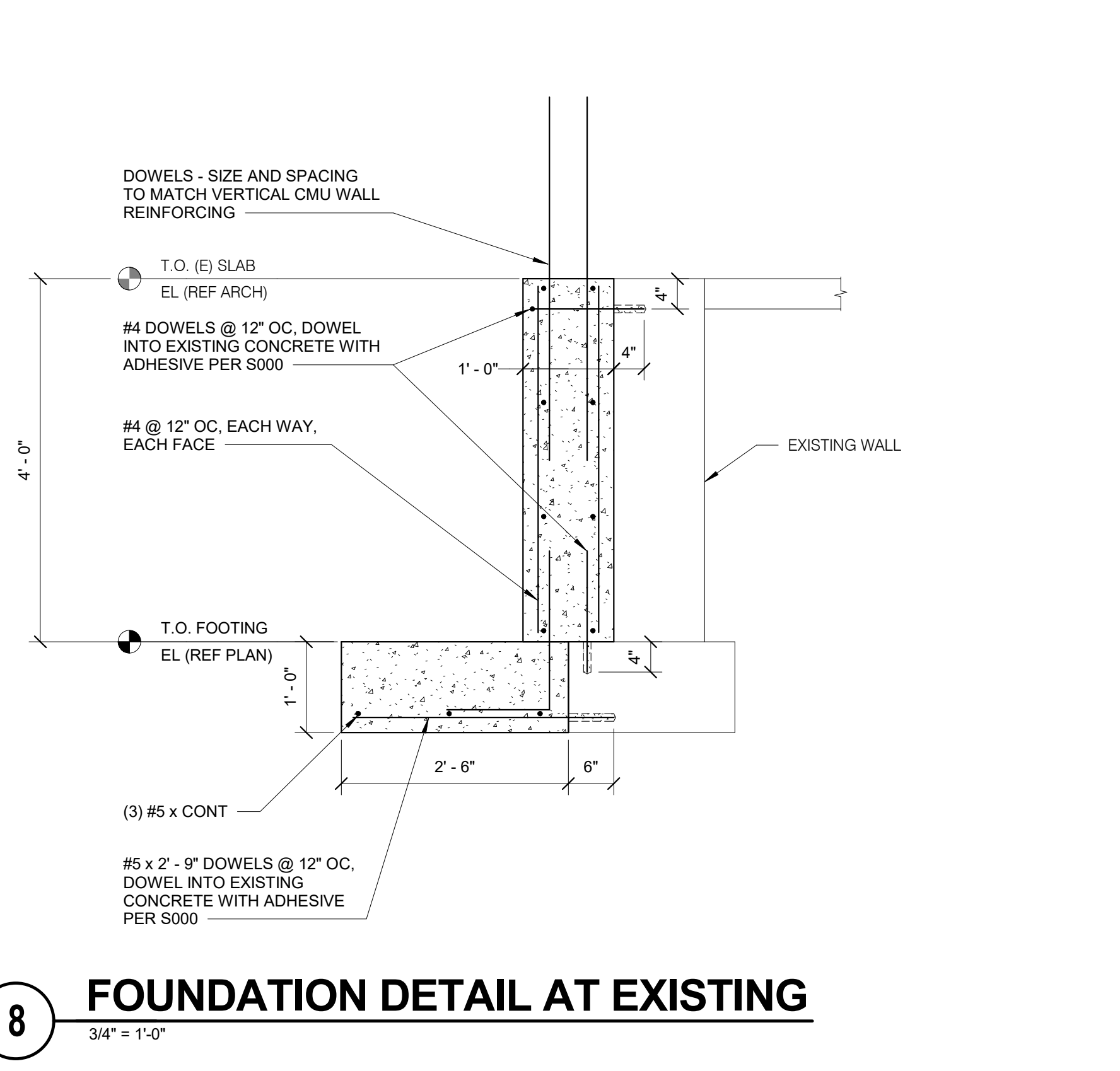
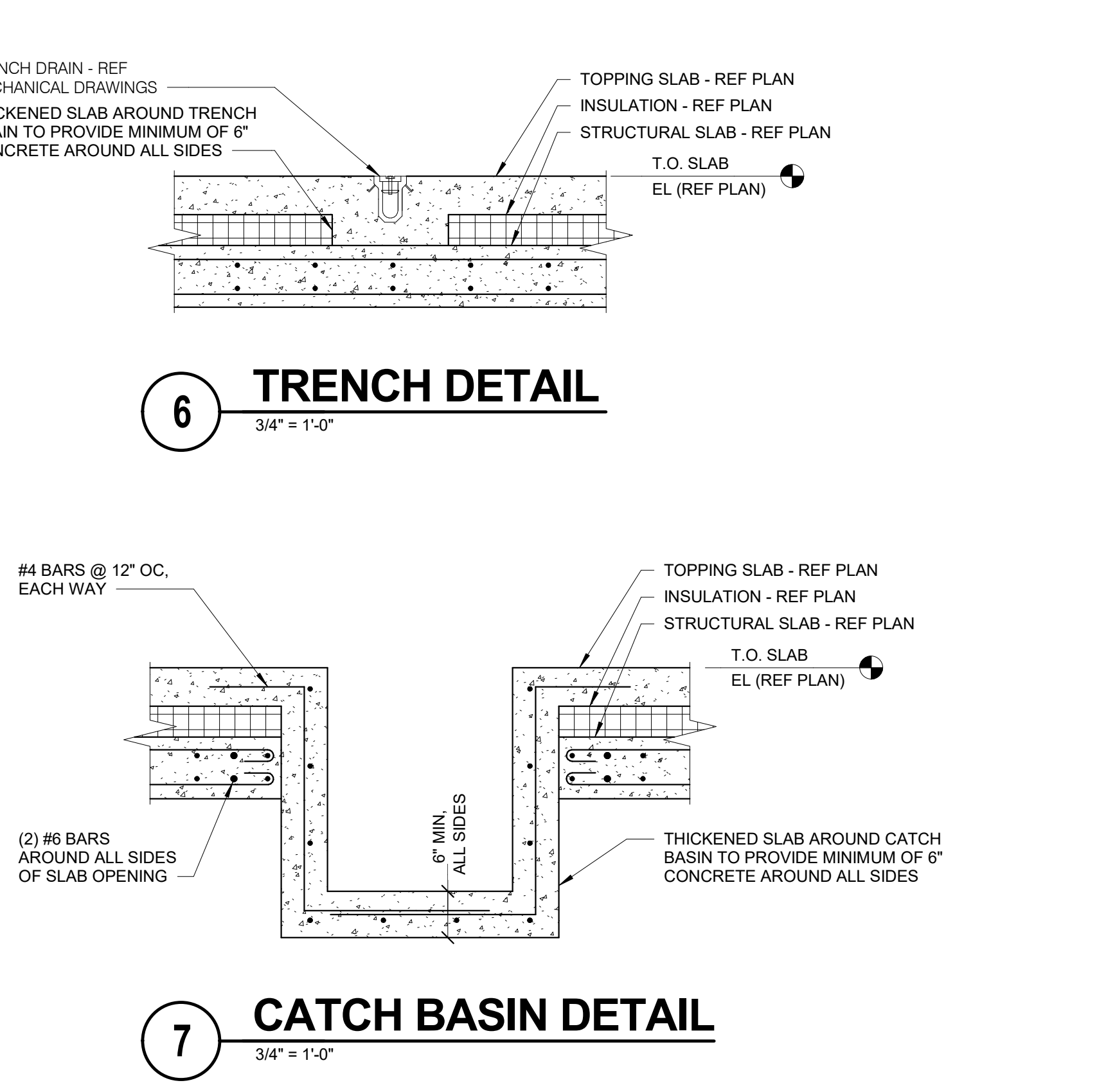
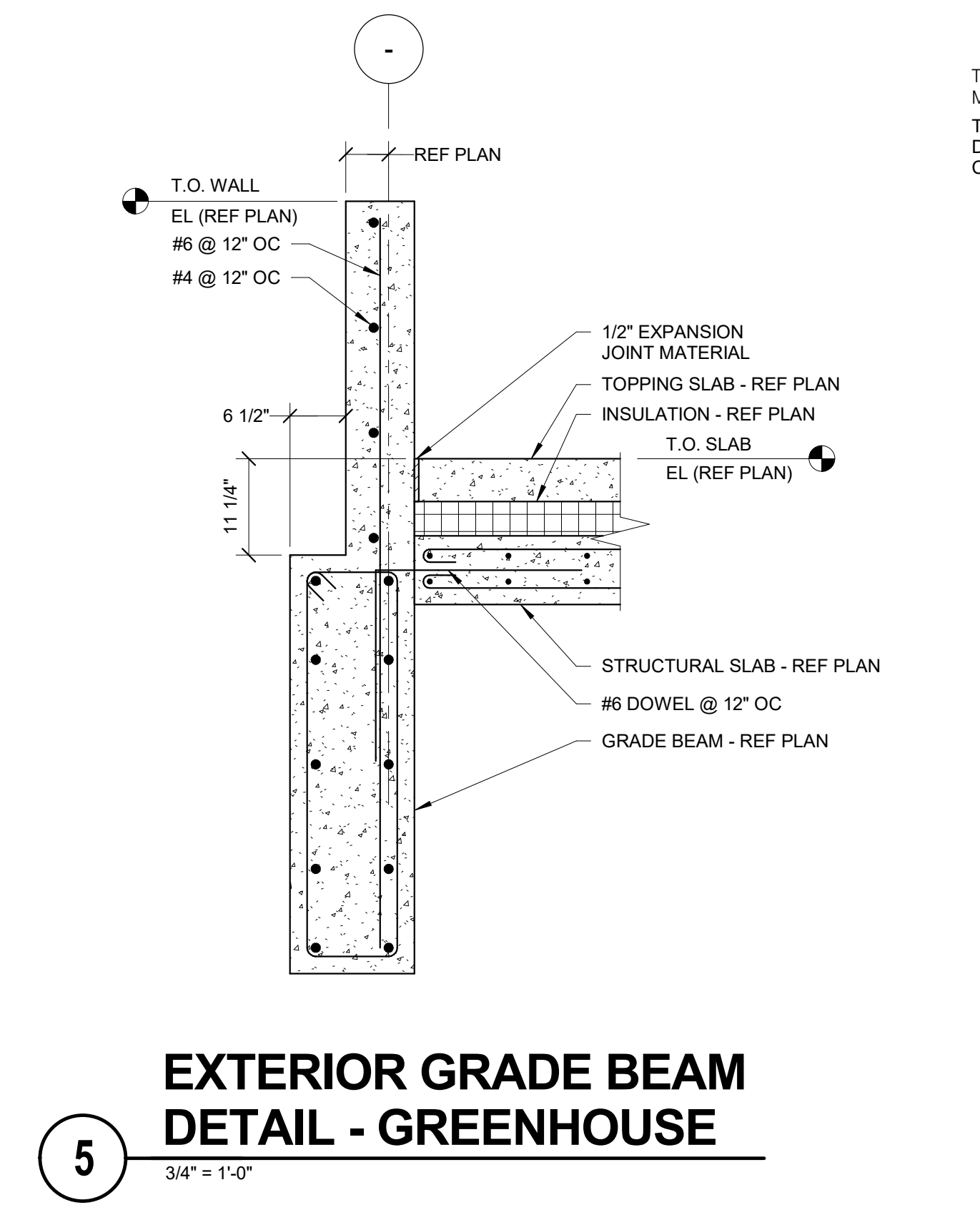
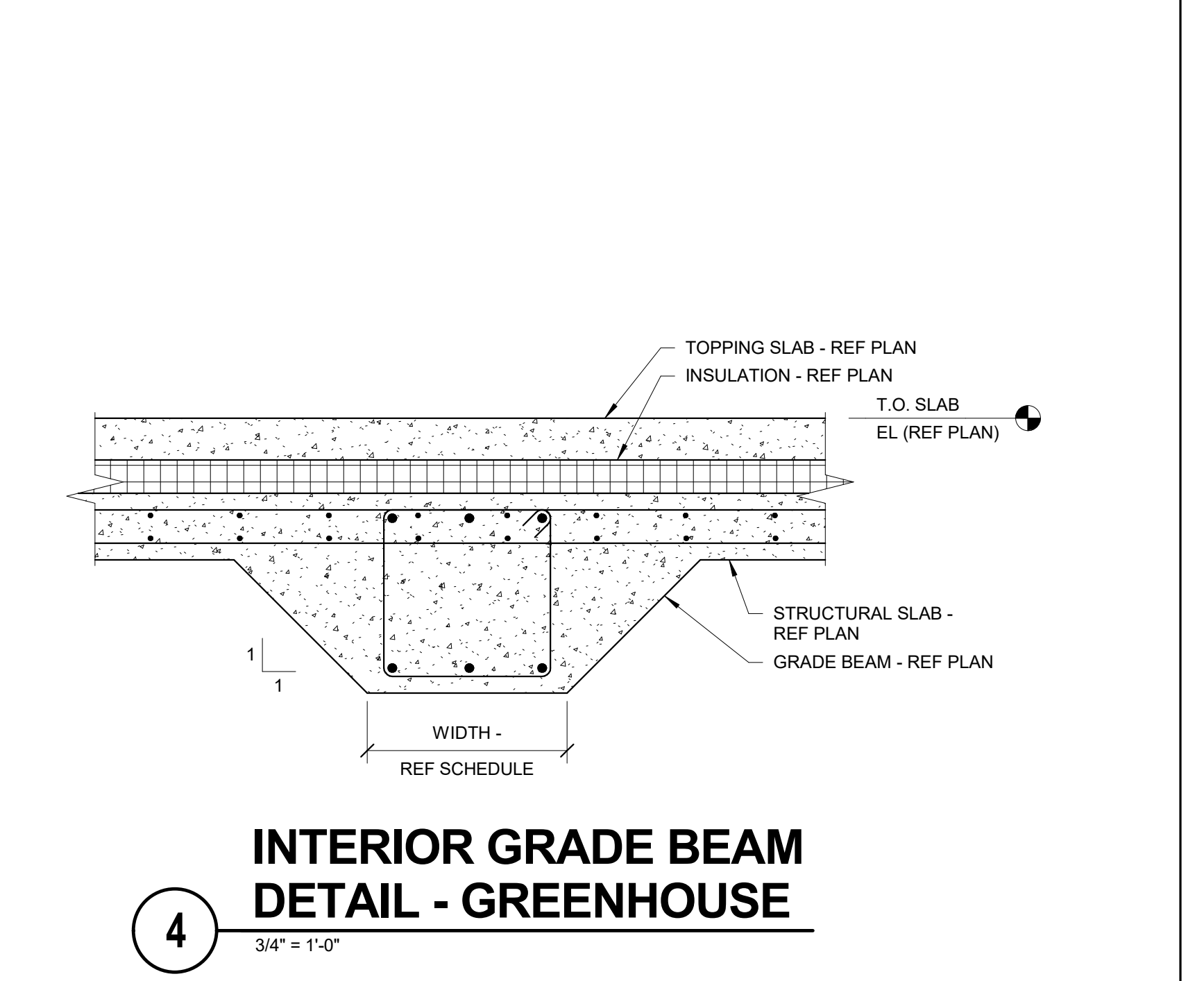
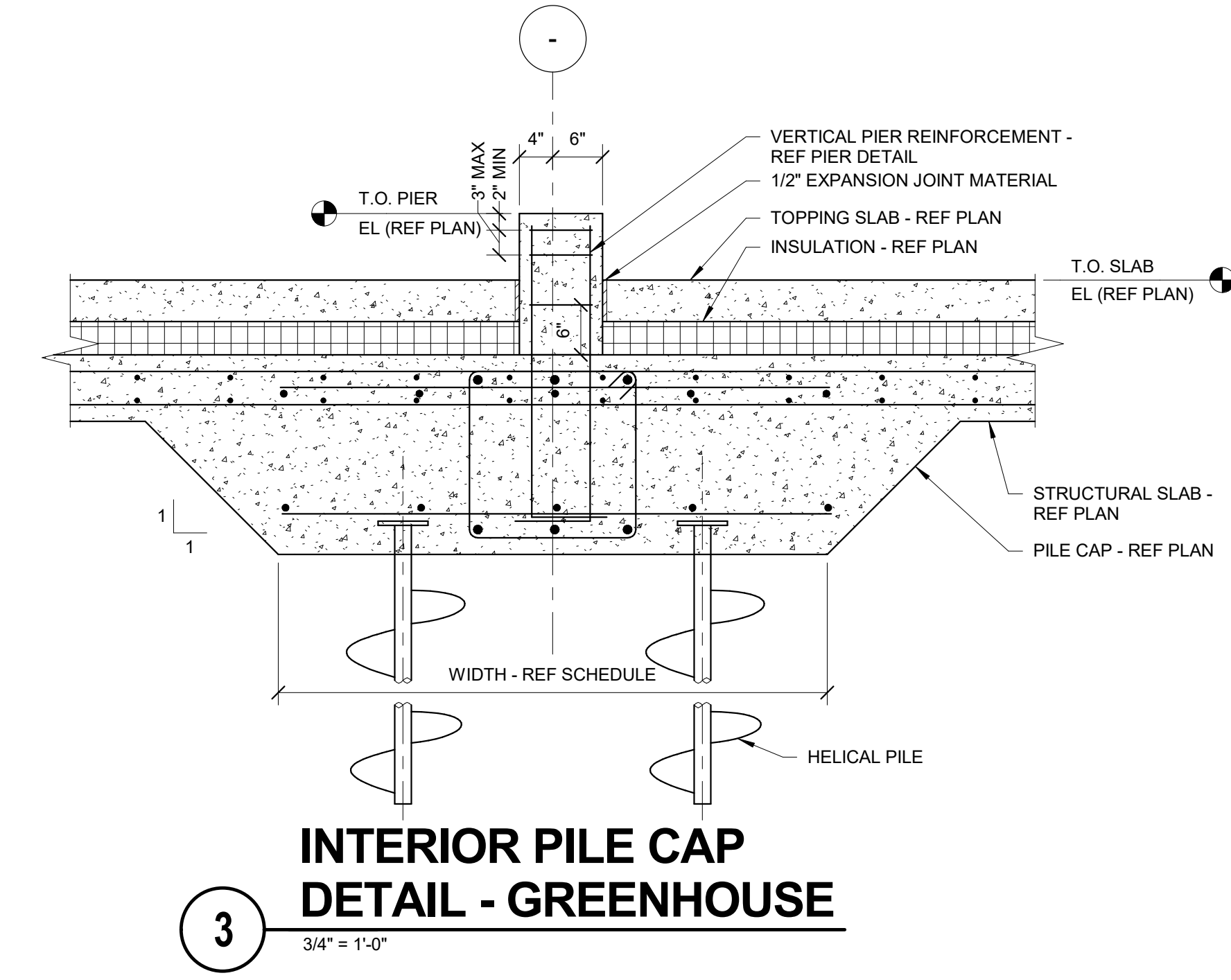
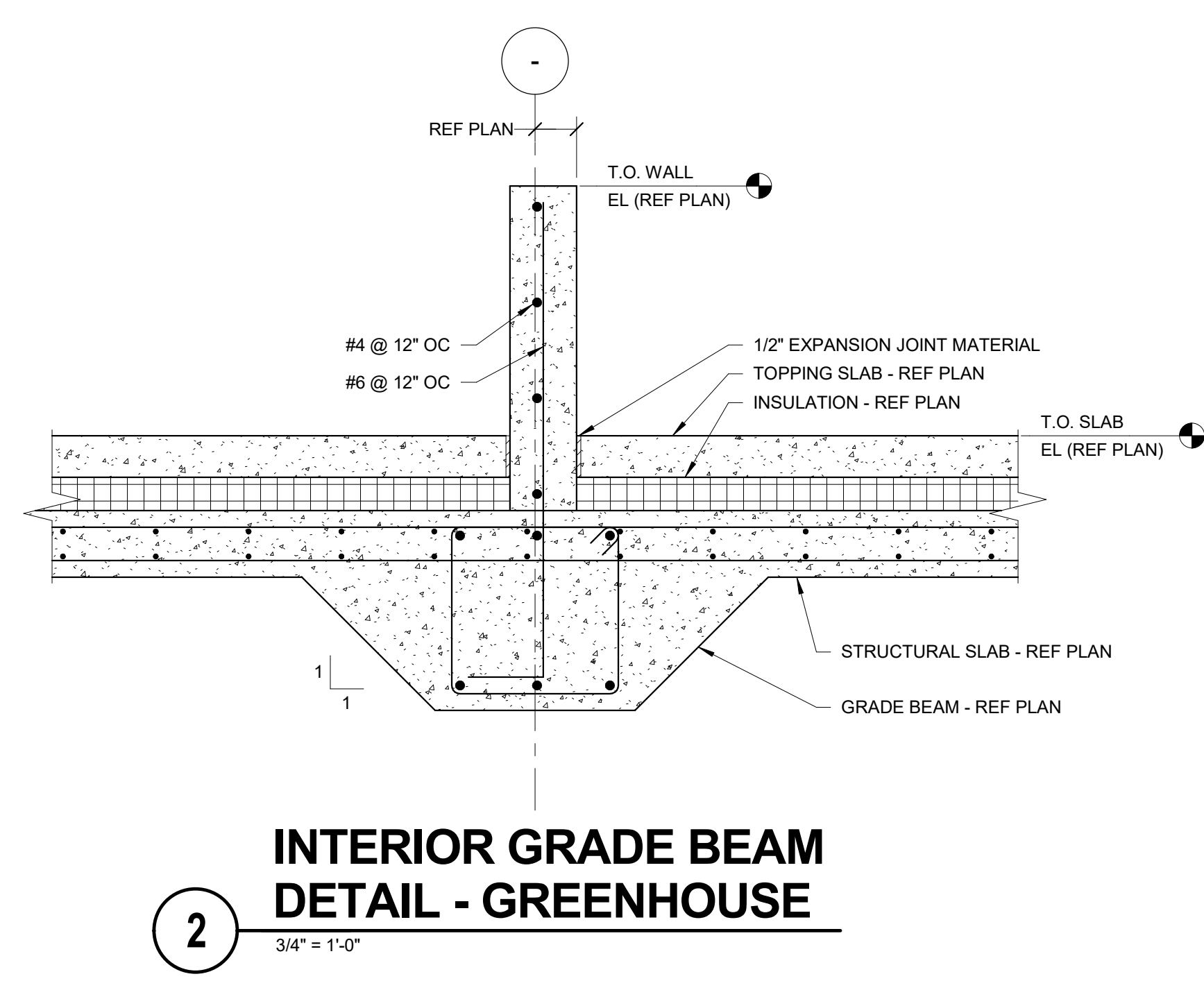
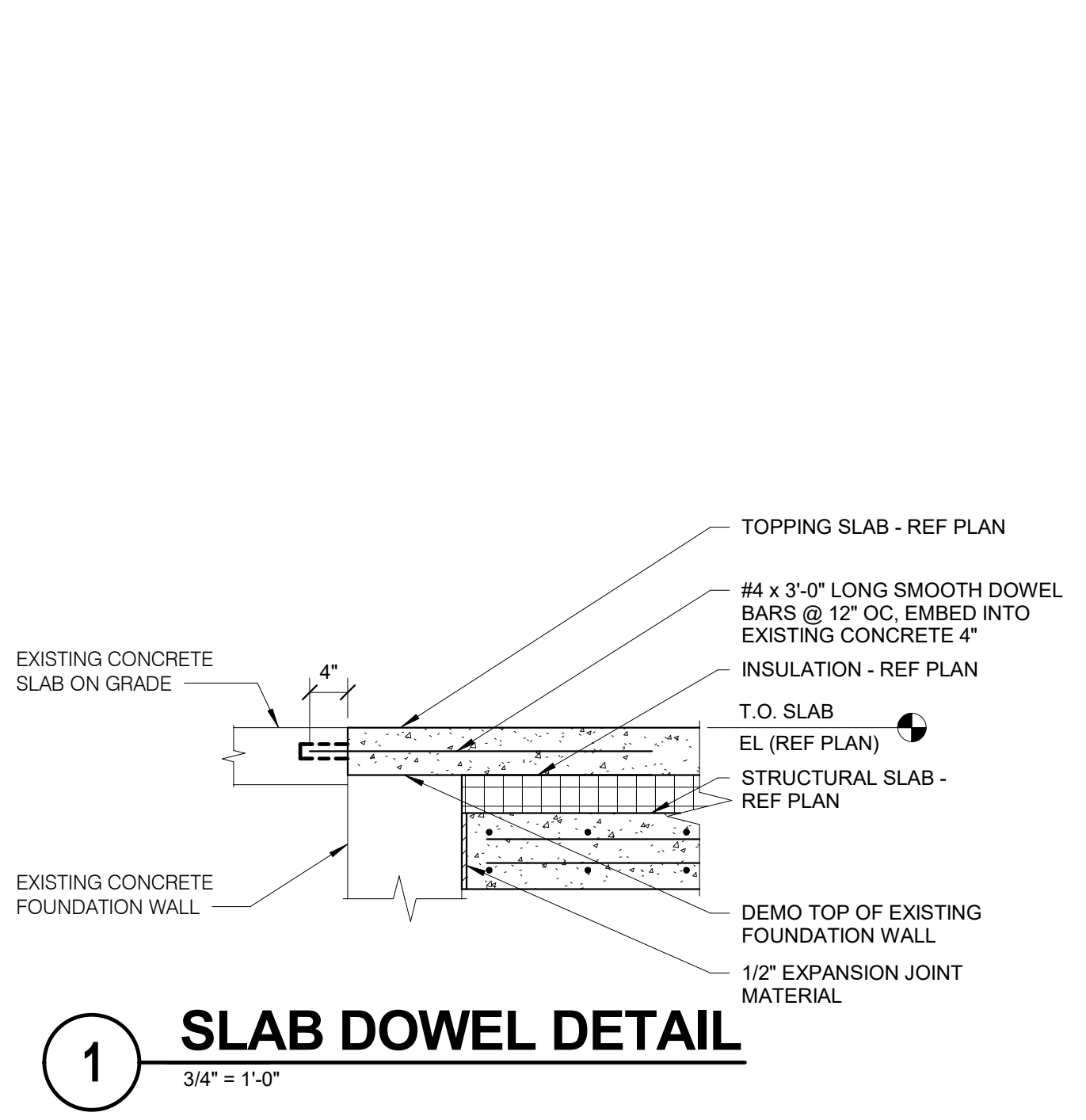


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ISSUE	MARK	DATE	DESCRIPTION
		03.30.2018	70% CD SUBMISSION
		05.04.2018	90% CONSTRUCTION DOCUMENTS
		06.01.2018	BID ISSUE
		06.04.2018	PERMIT ISSUE

PROJECT NO.	2017016
PROJECT PHASE	BID DOCUMENTS
DRAWN BY:	SIDBHO
CHECKED BY:	ABPPER

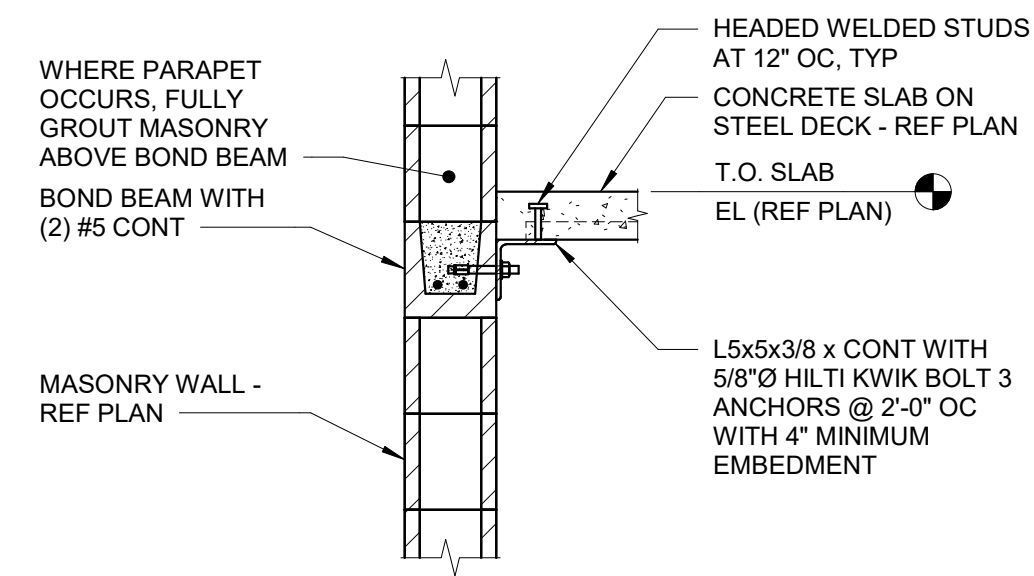
**FOUNDATION
 DETAILS**
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S203



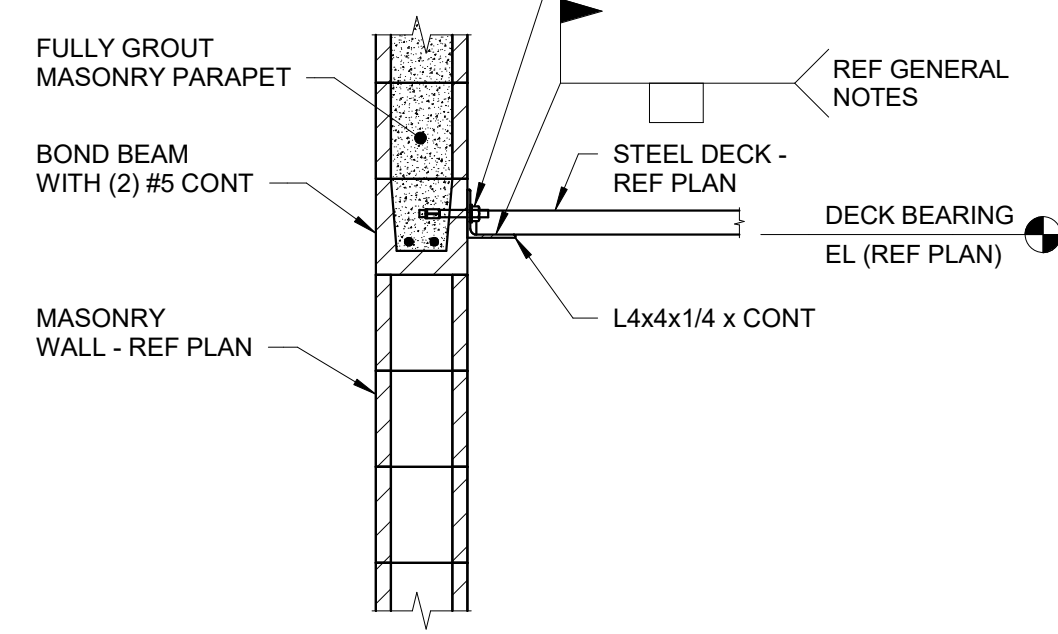
IMEG 1800 DEMING WAY, SUITE 200
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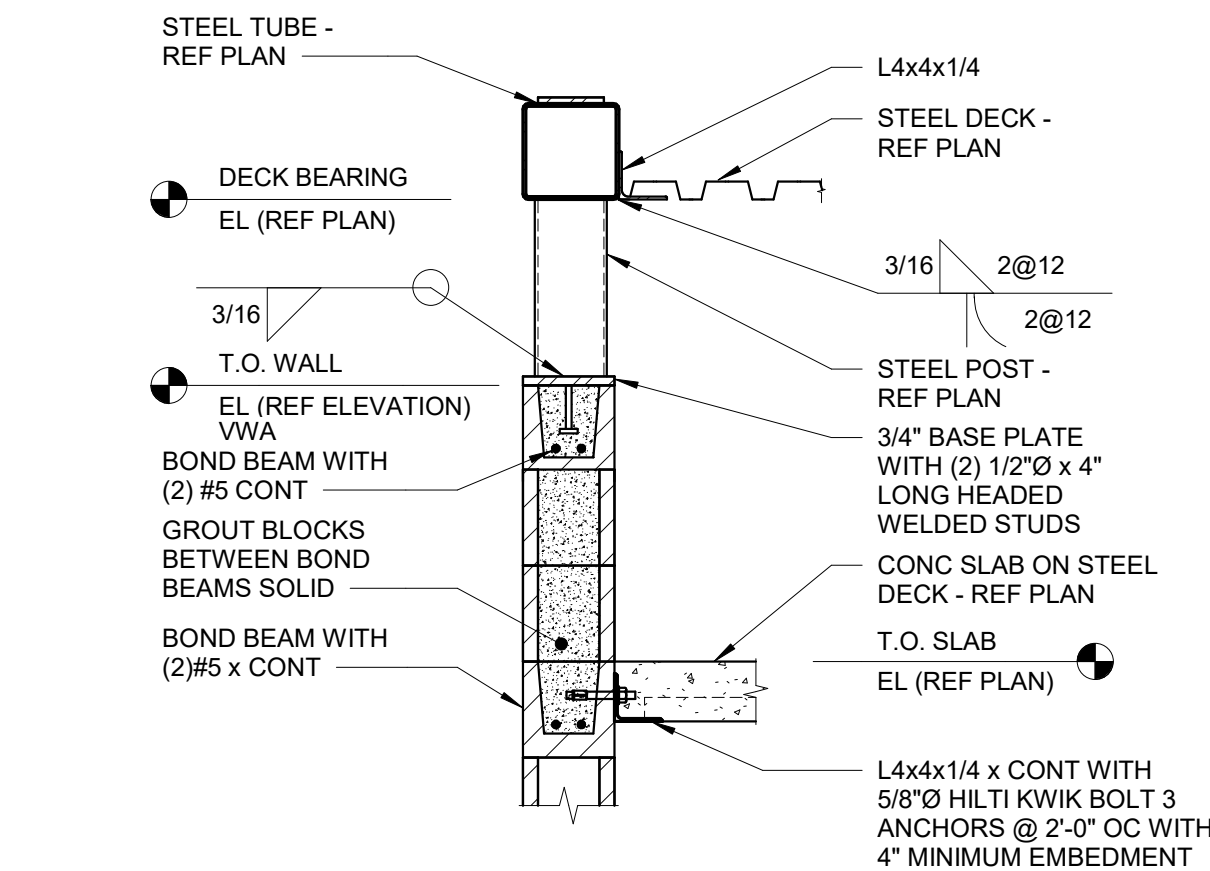
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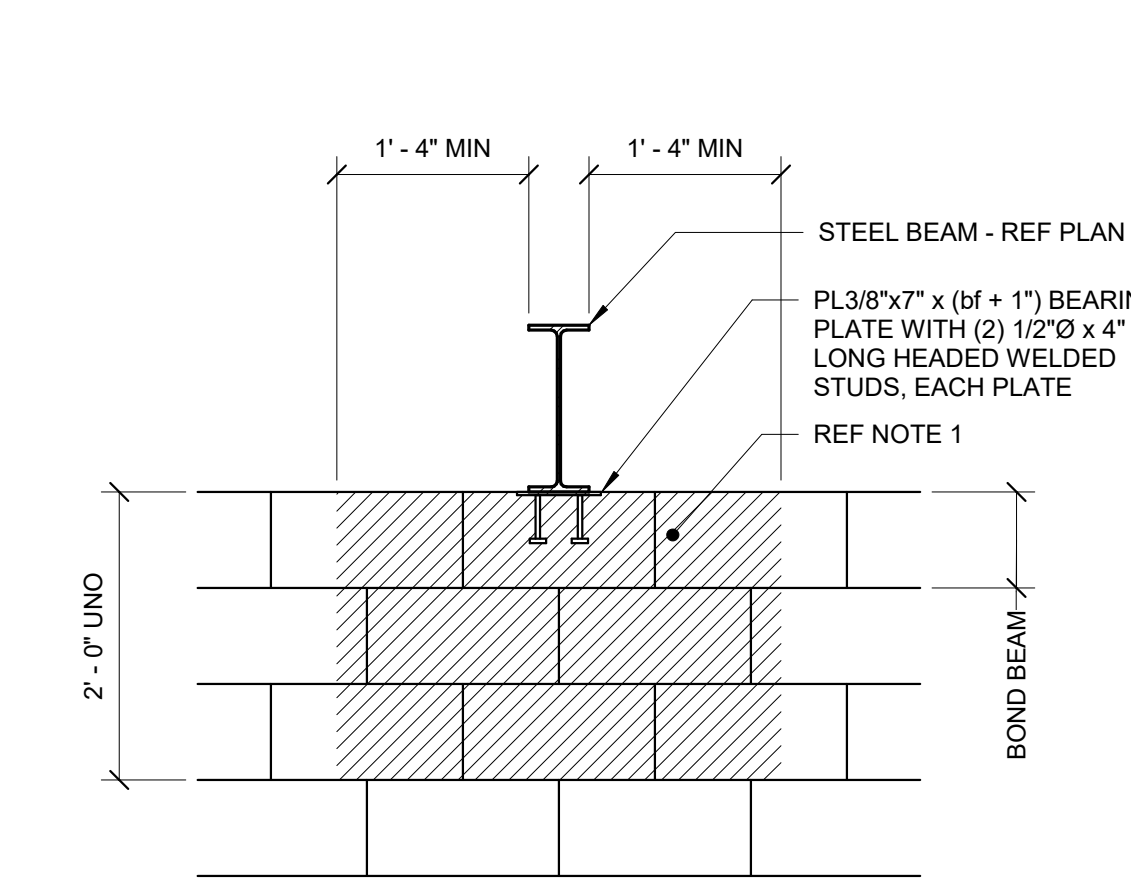
1 TYPICAL DECK SUPPORT AT MASONRY
3/4" = 1'-0"



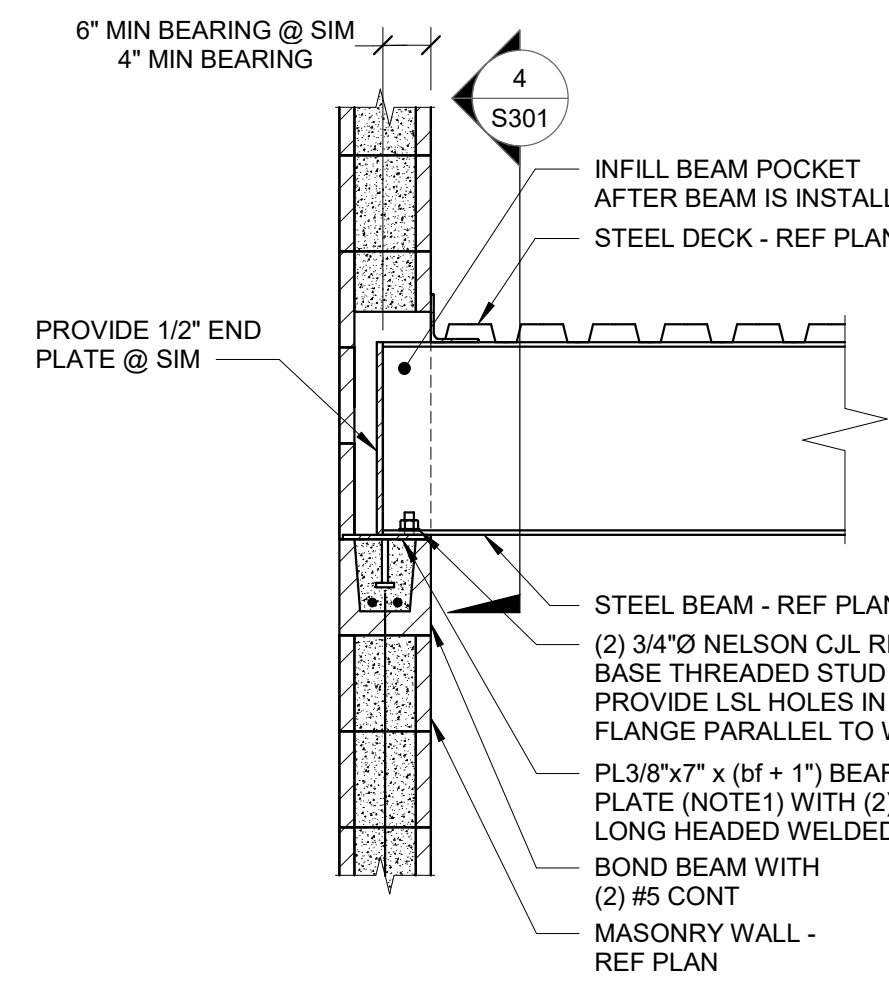
2 ROOF DECK SUPPORT AT MASONRY
3/4" = 1'-0"



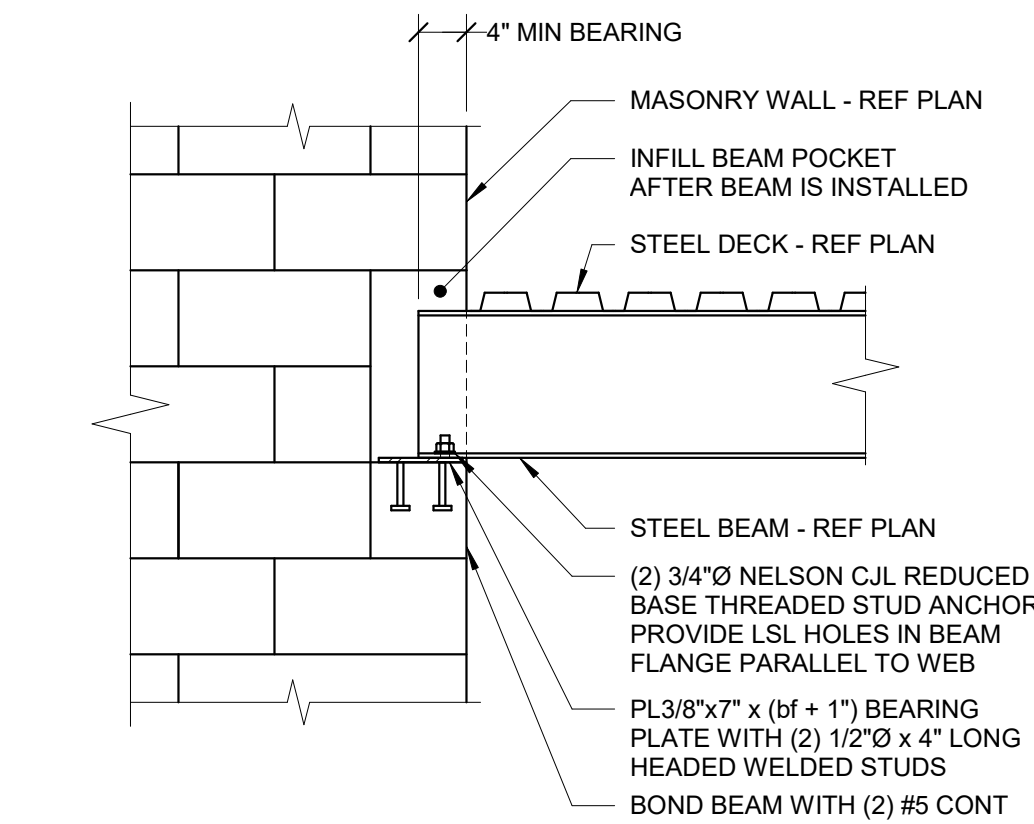
3 LOUVER FRAMING DETAIL
3/4" = 1'-0"



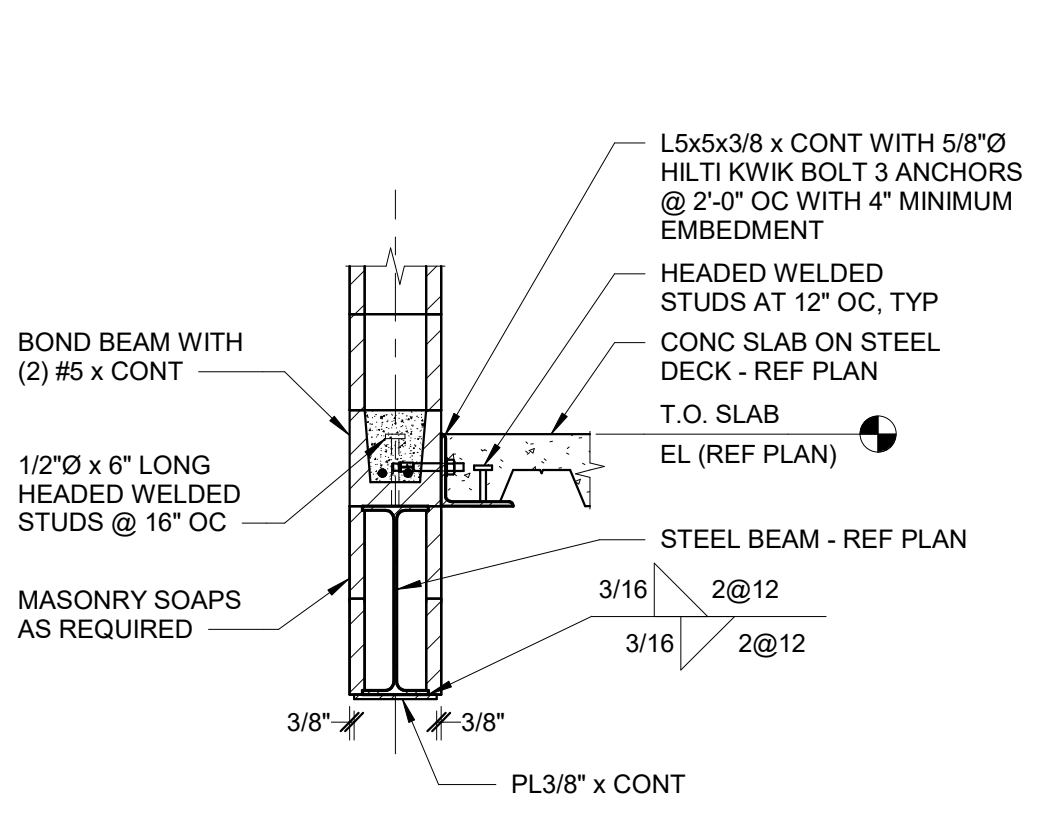
4 TYPICAL BEAM BEARING ON MASONRY
3/4" = 1'-0"



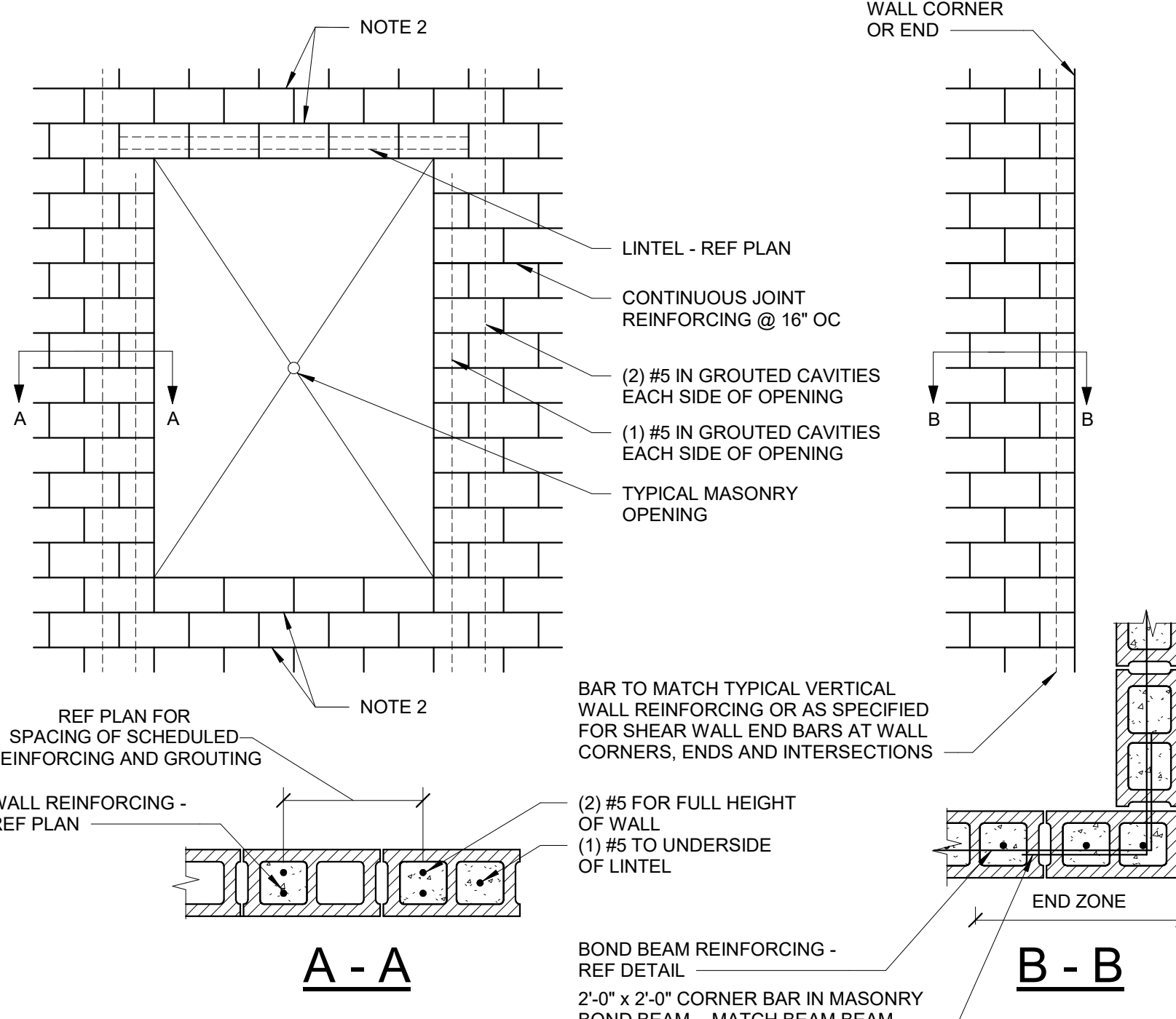
5 TYPICAL BEAM BEARING ON MASONRY
3/4" = 1'-0"



6 TYPICAL BEAM BEARING ON MASONRY
3/4" = 1'-0"

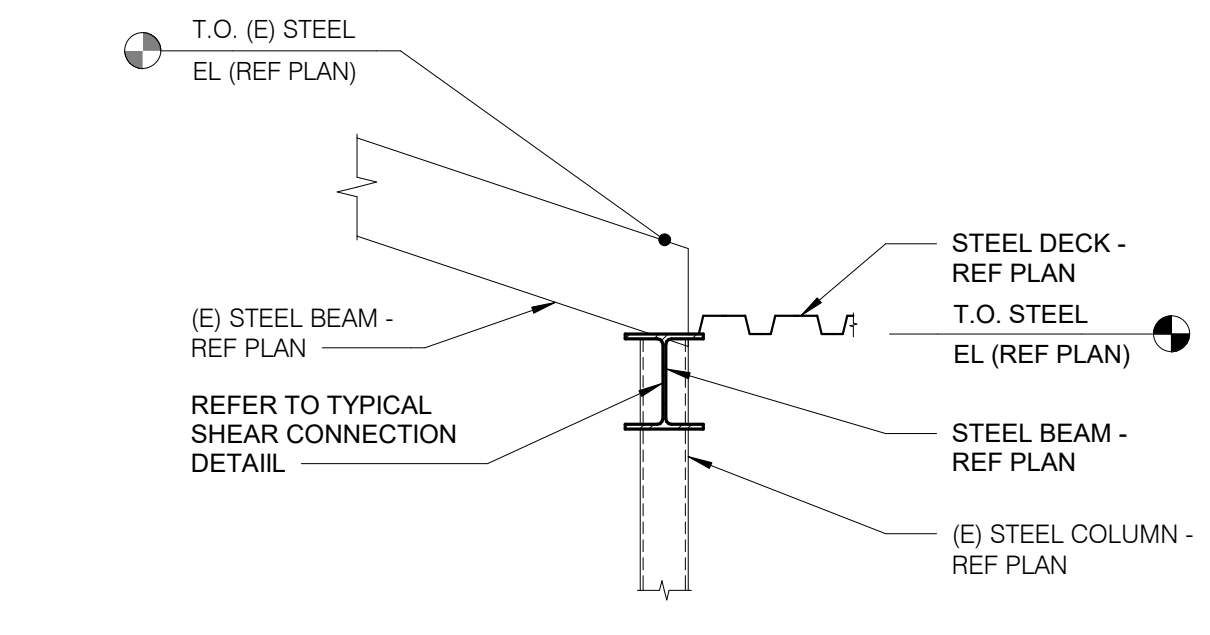


7 BEAM SUPPORTING CMU WALL DETAIL
3/4" = 1'-0"

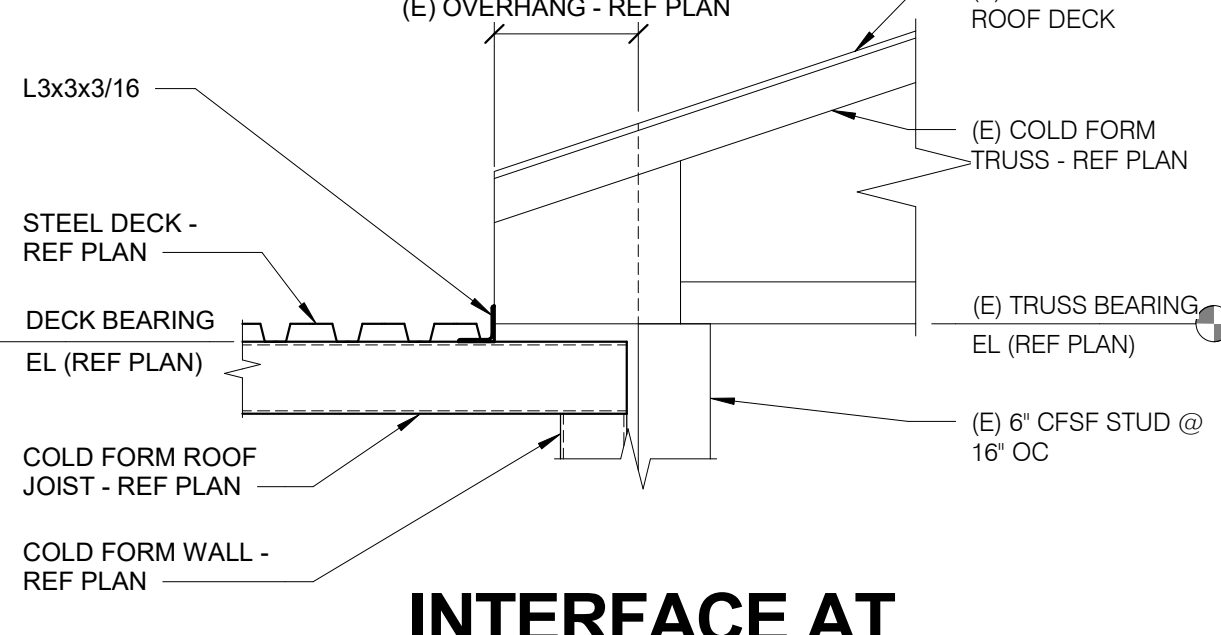


8 TYPICAL MASONRY WALL DETAIL
NO SCALE

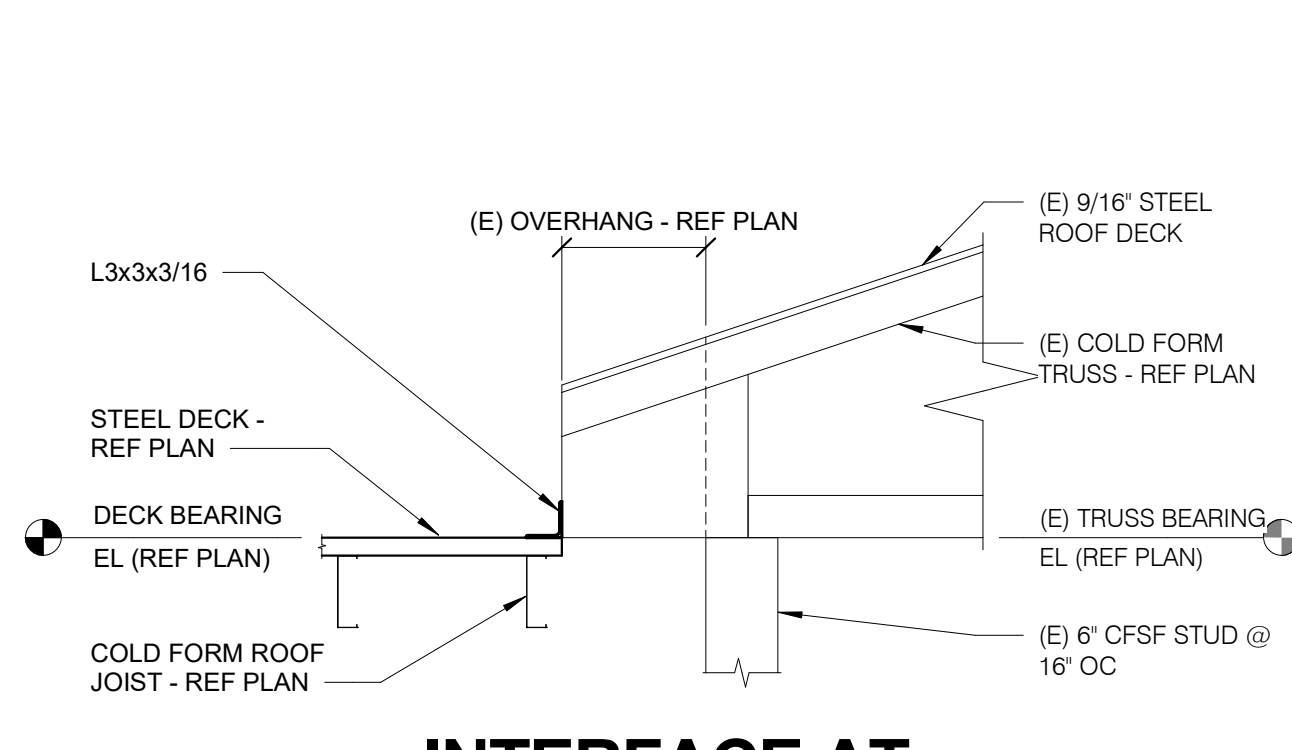
- NOTES:
- REFER TO ARCHITECTURAL ELEVATIONS FOR MASONRY CONTROL JOINT LOCATIONS.
 - TWO COURSES OF JOINT REINFORCING ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL, AND SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE OPENING.



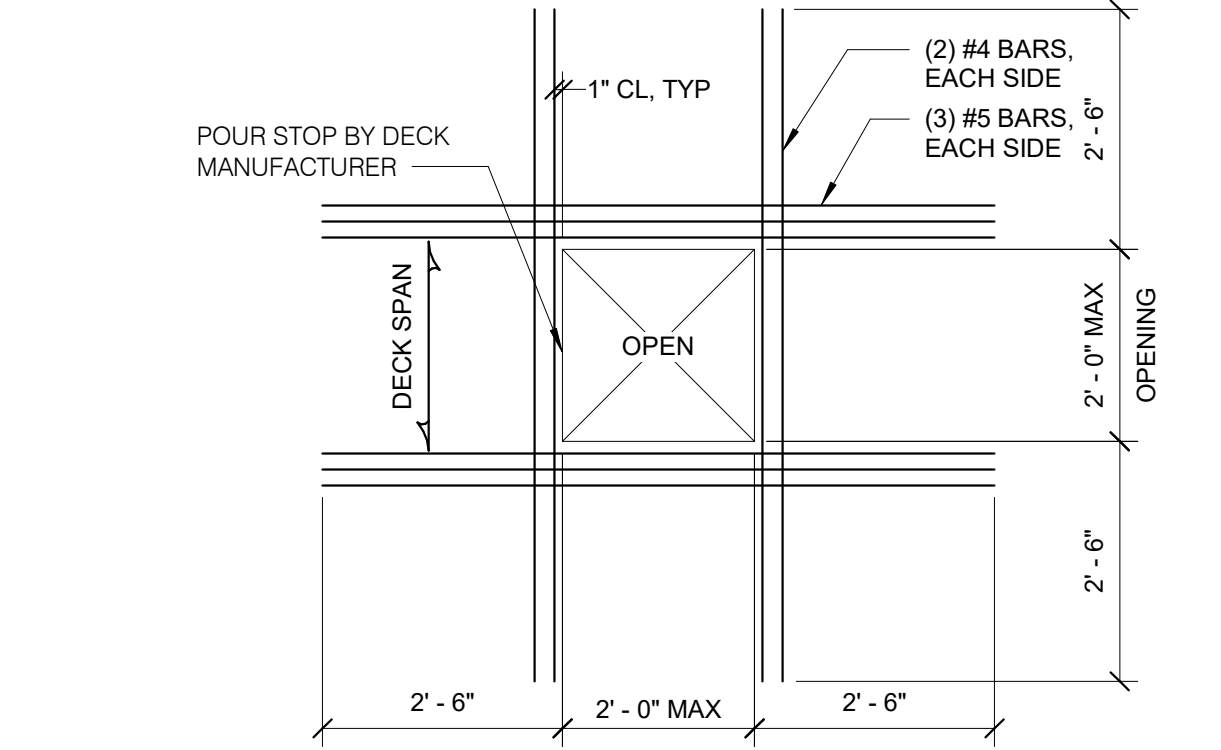
11 INTERFACE AT EXISTING DETAIL
3/4" = 1'-0"



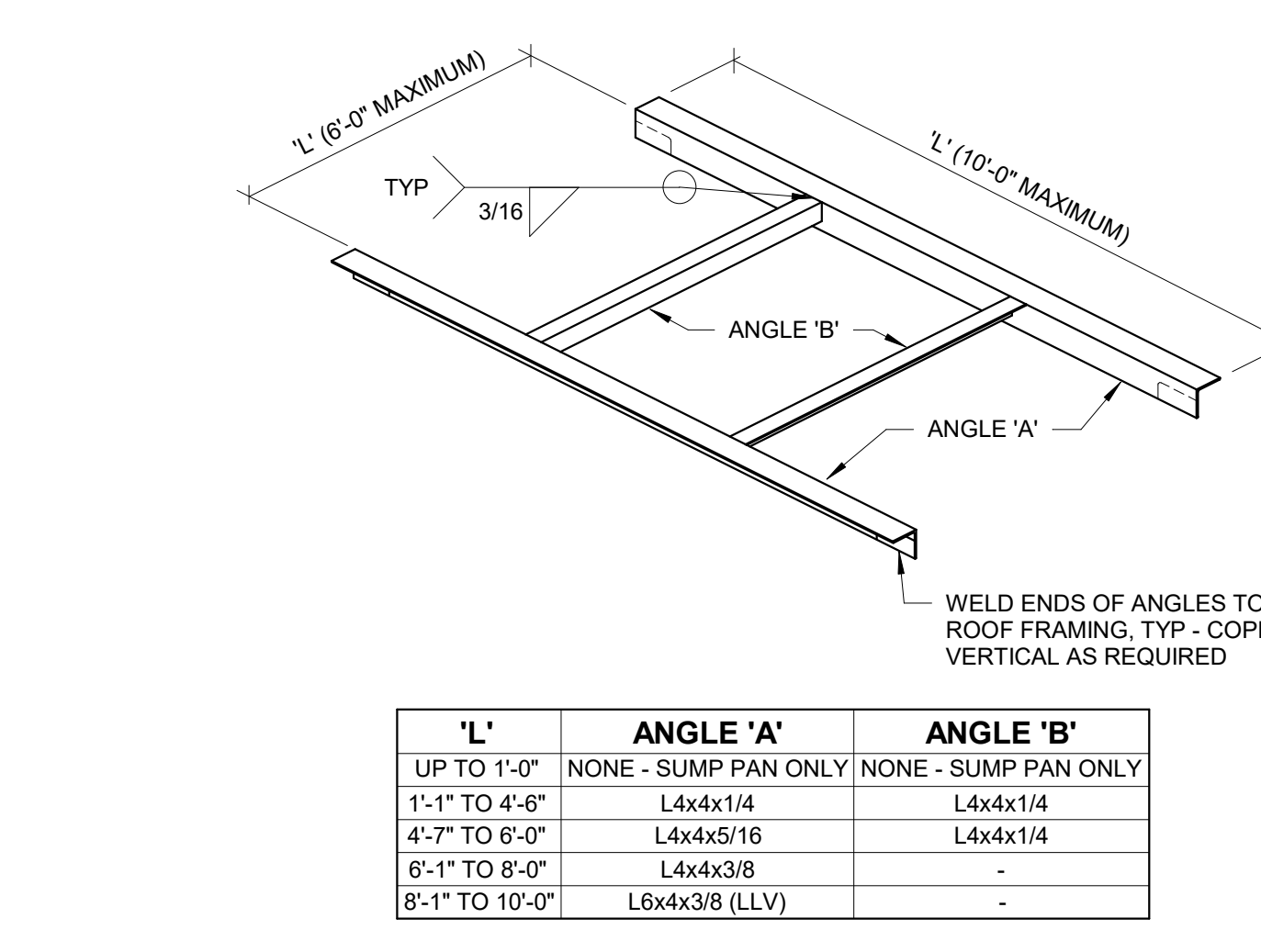
12 INTERFACE AT EXISTING DETAIL
3/4" = 1'-0"



13 INTERFACE AT EXISTING DETAIL
3/4" = 1'-0"



14 TYPICAL FLOOR PENETRATION
1/2" = 1'-0"

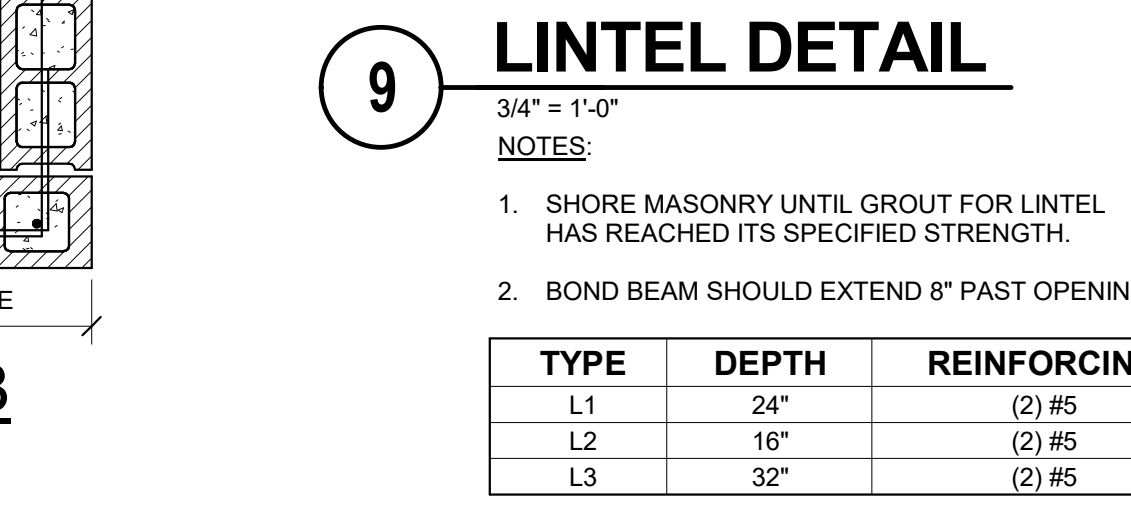


15 DECK OPENING FRAMING DETAIL
3/4" = 1'-0"

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

- NOTES:
- IN SHADED AREA, FILL ALL CORES IN WALL WITH GROUT. MINIMUM AT CORNER CONDITION: 1'-4", EACH WAY.

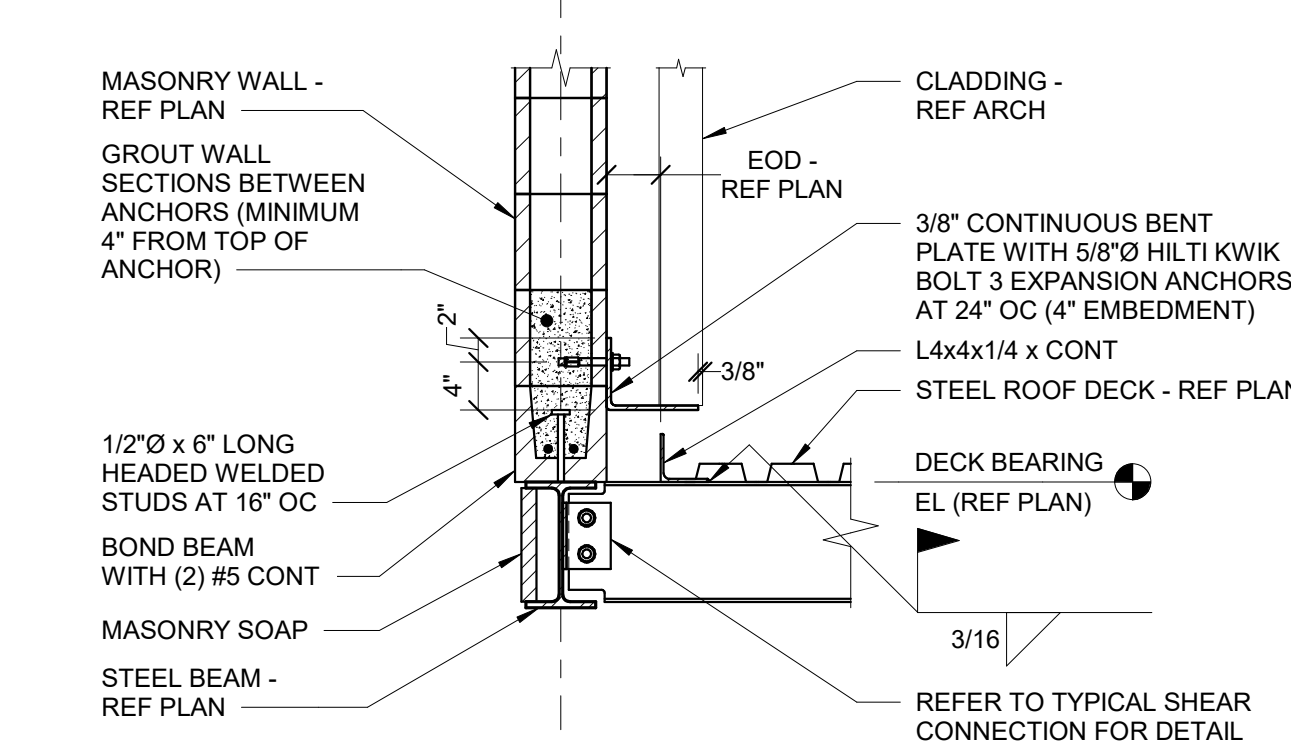
- NOTES:
- AT SIM, PROVIDE 3/8\"/>



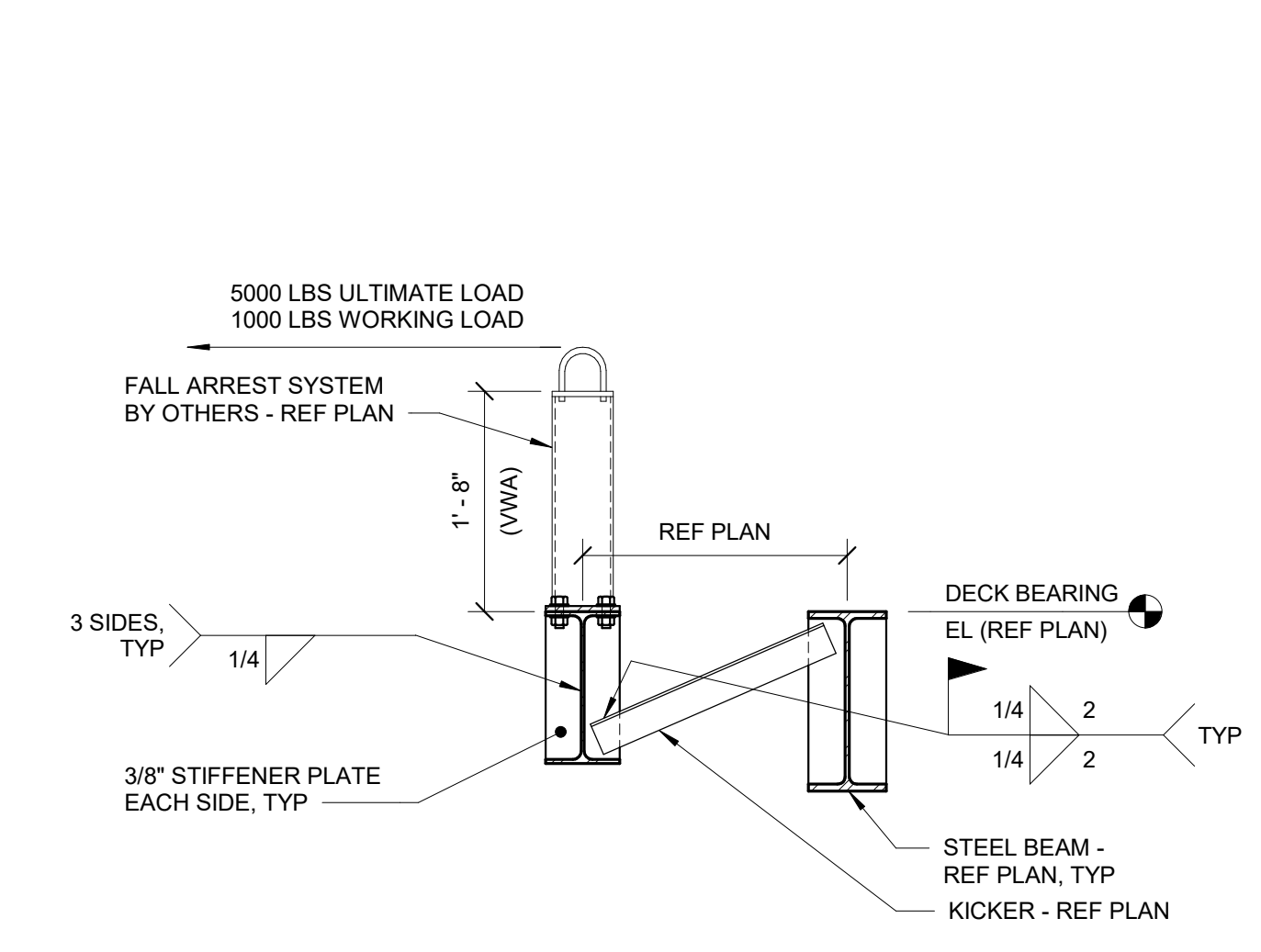
9 LINTEL DETAIL
3/4" = 1'-0"

- NOTES:
- SHORE MASONRY UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.
 - BOND BEAM SHOULD EXTEND 8" PAST OPENING.

TYPE	DEPTH	REINFORCING
L1	24"	(2) #5
L2	16"	(2) #5
L3	32"	(2) #5

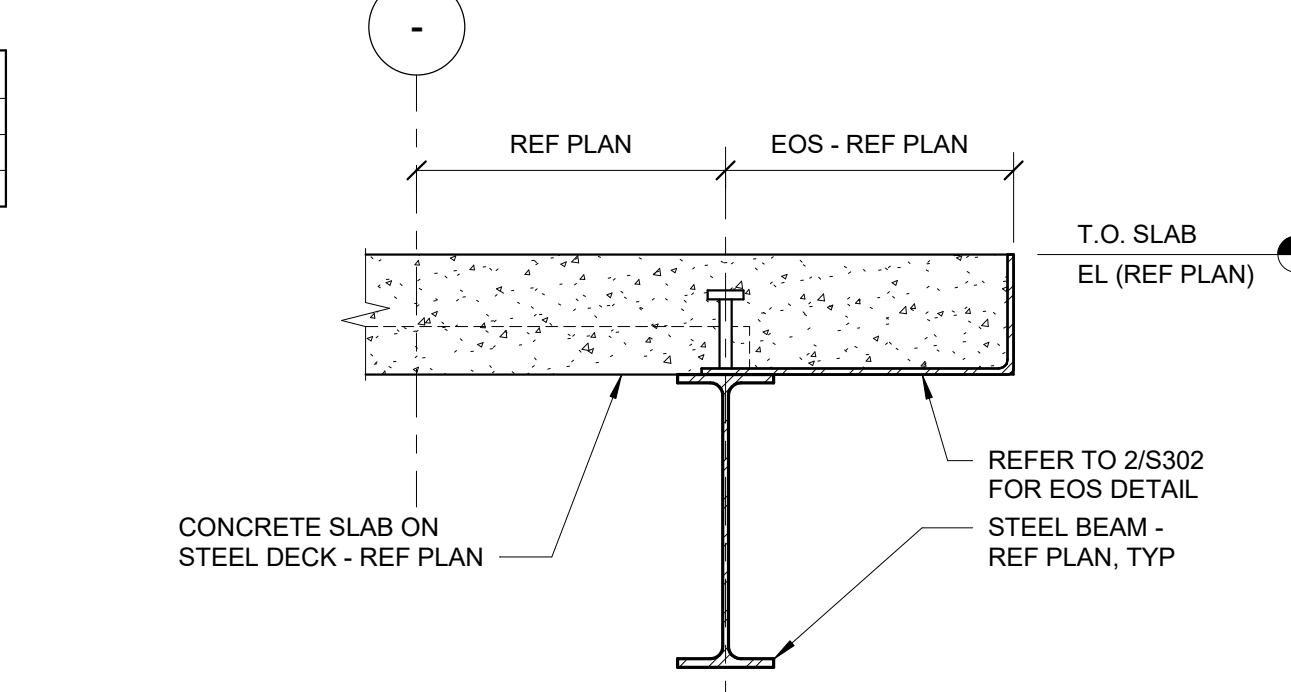


10 CONNECTION DETAIL
3/4" = 1'-0"

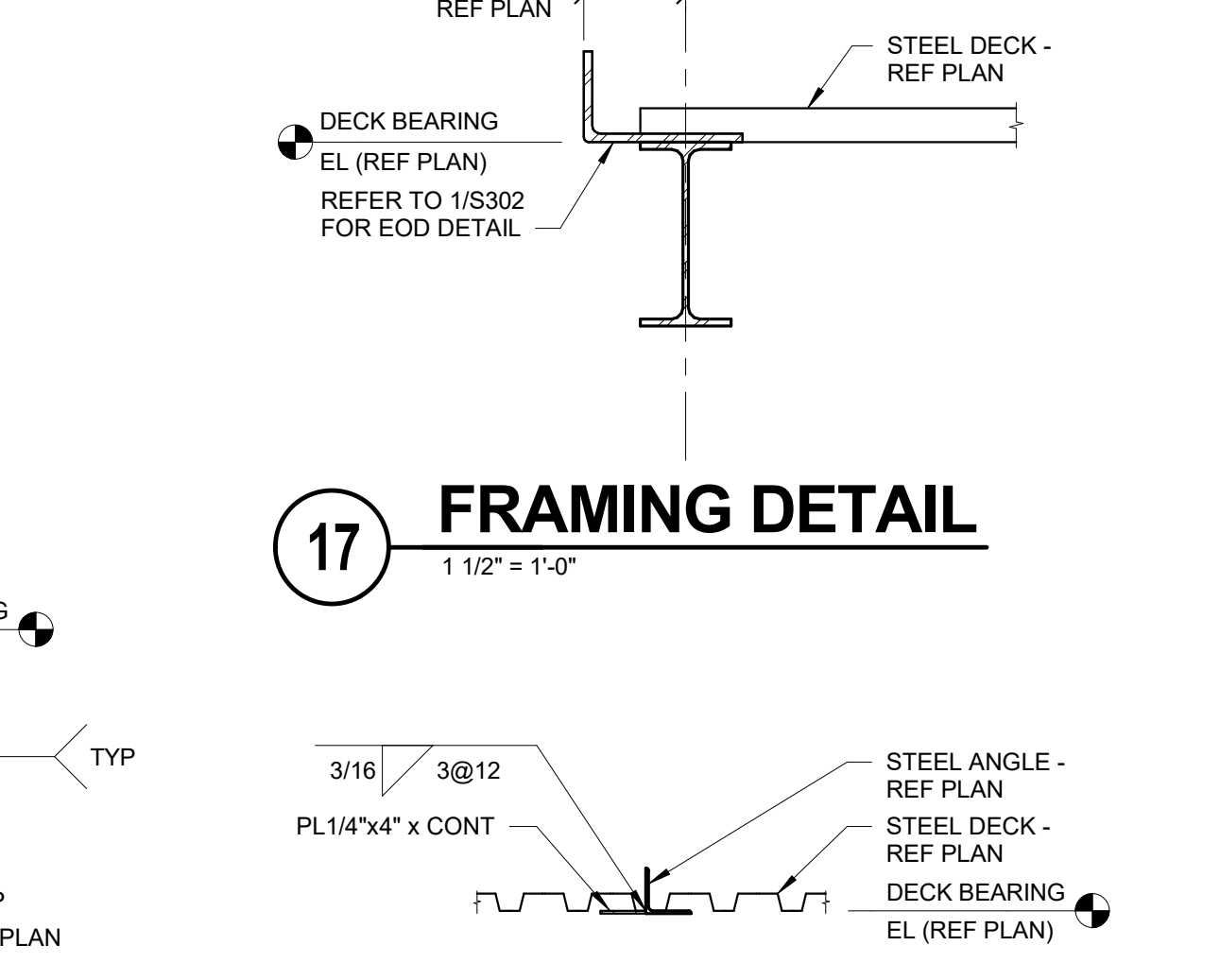


16 FALL ARREST SUPPORT DETAIL
3/4" = 1'-0"

- NOTES:
- DECK NOT SHOWN FOR CLARITY.
 - STEEL FABRICATOR TO COORDINATE LOCATION OF ANCHORS WITH FALL ARREST SYSTEM PROVIDED.



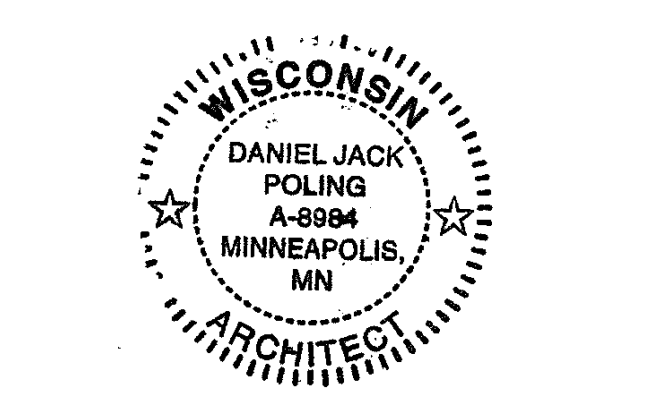
17 FRAMING DETAIL
1 1/2" = 1'-0"



18 COLLECTOR DETAIL
3/4" = 1'-0"

- NOTES:
- FASTEN DECK TO ANGLE AND PLATE. REFER TO PLAN FOR DECK FASTENING.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin. ARCHITECT SEAL



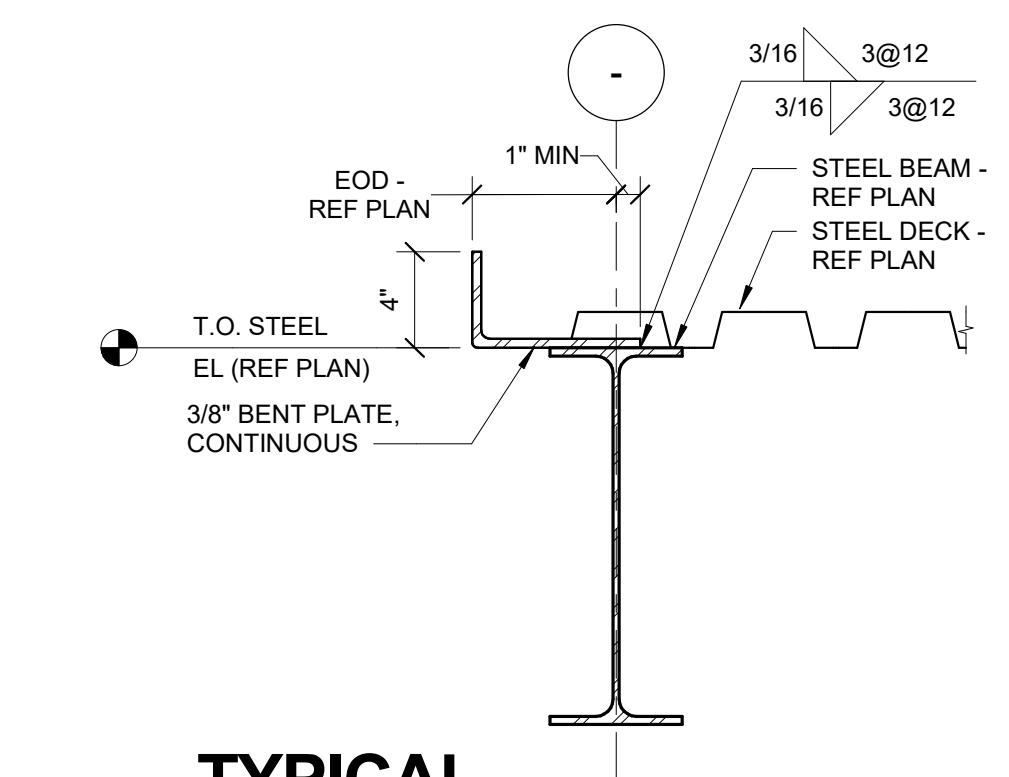
Signature: *Daniel Jack Poling*
Print Name: Daniel Jack Poling
Date: JUNE 1, 2018 License No.:

MARK	DATE	DESCRIPTION
	12.08.2017	DD PRICING SET
	01.10.2018	DESIGN DEVELOPMENT SUBMISSION
	03.30.2018	70% CD SUBMISSION
	05.04.2018	100% CONSTRUCTION DOCUMENTS
	06.01.2018	BID ISSUE
	06.04.2018	PERMIT ISSUE

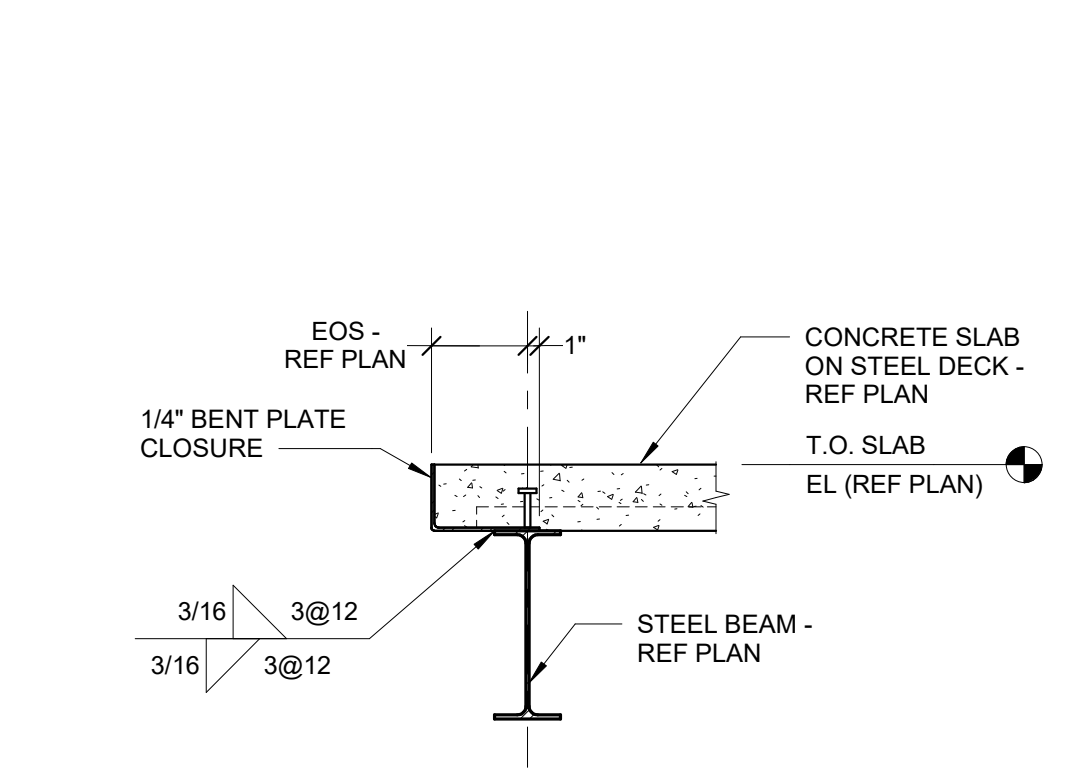
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FRAMING DETAILS

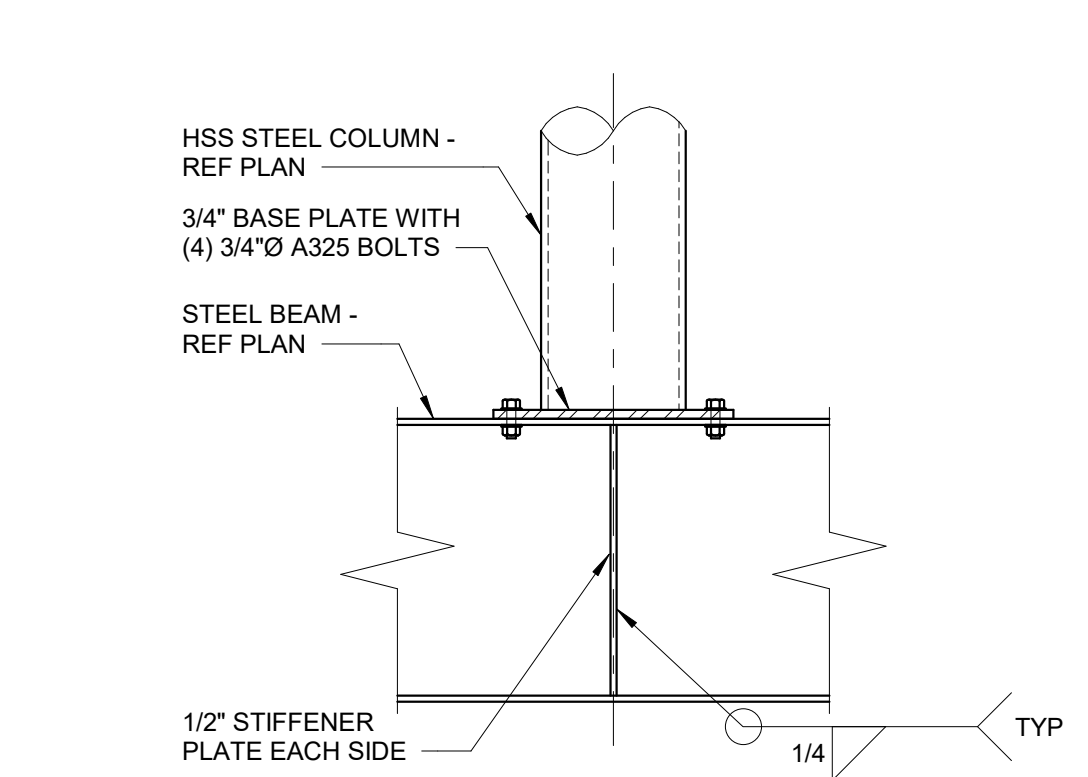
EXHIBIT G
S301



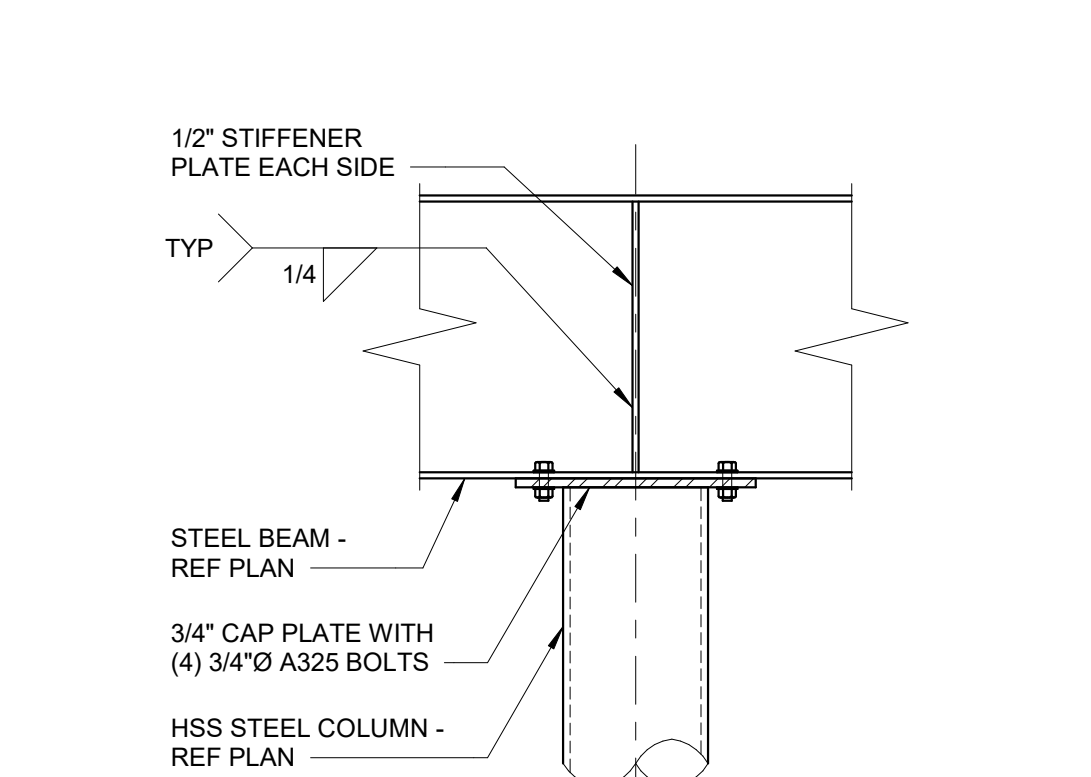
1 TYPICAL CLOSURE PLATE DETAIL
 1 1/2" = 1'-0"
 NOTES:
 1. REFER TO PLAN FOR DECK ORIENTATION.



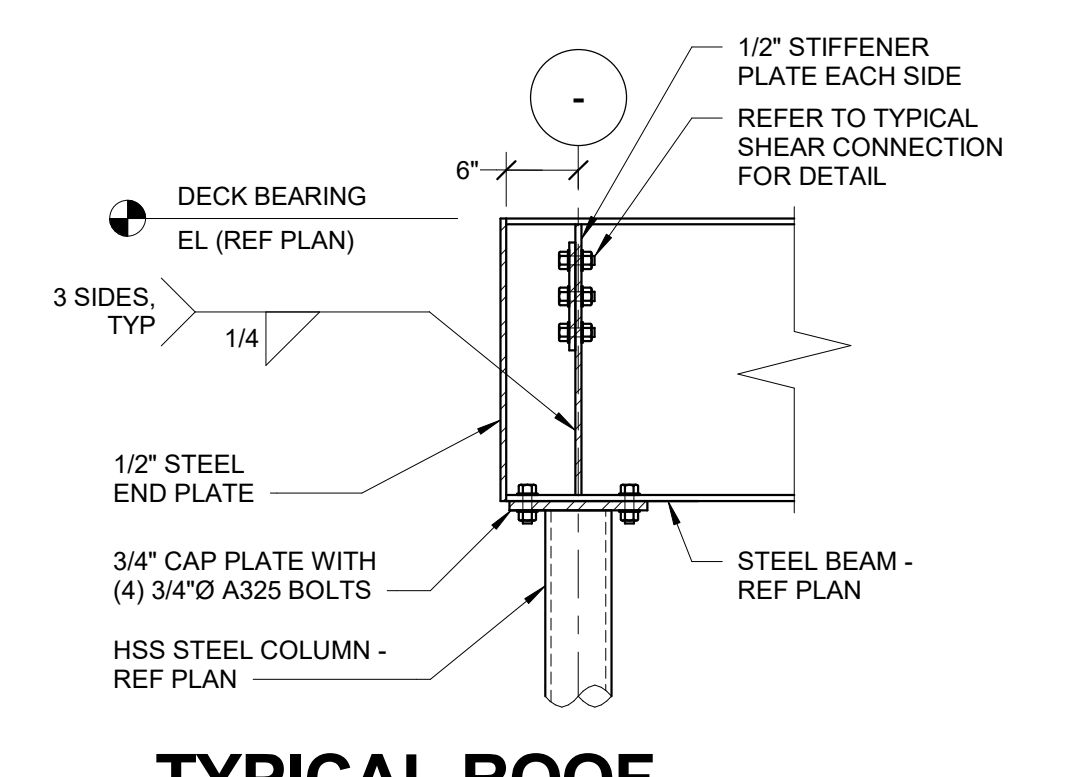
2 TYPICAL SLAB EDGE DETAIL
 3/4" = 1'-0"



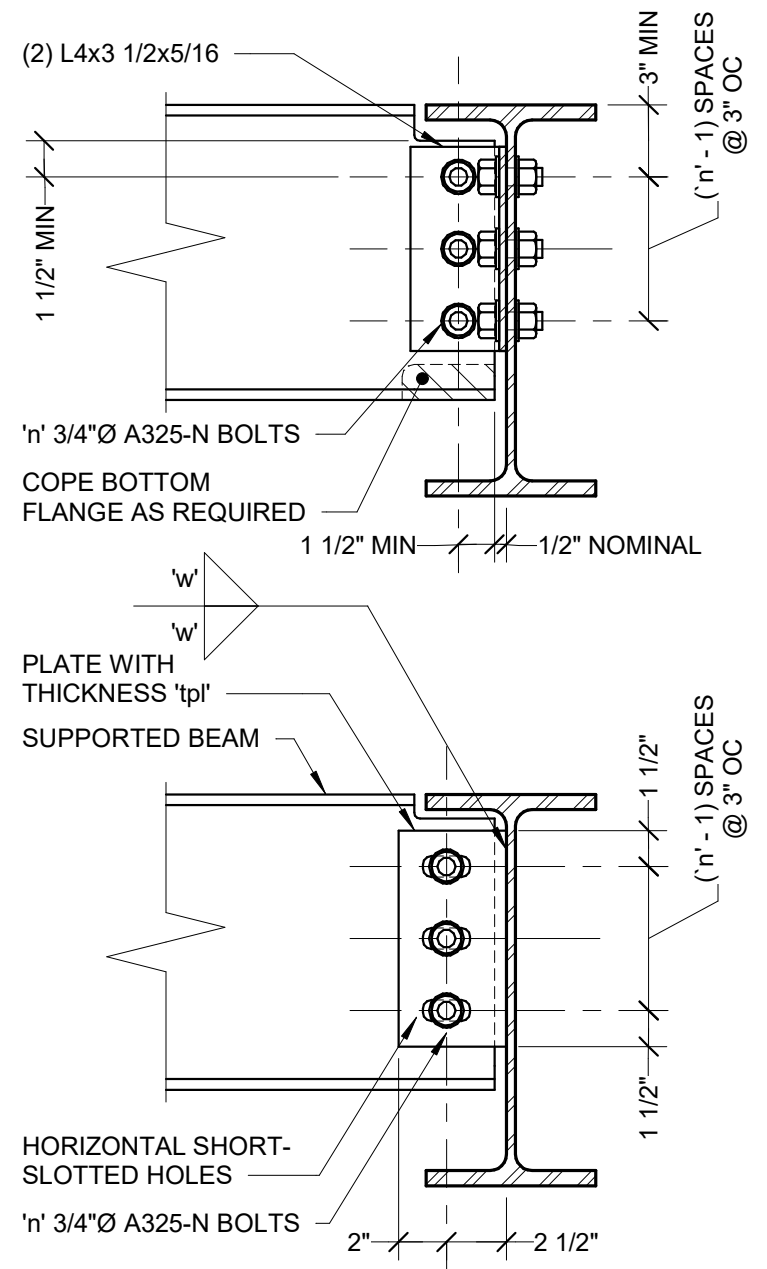
3 COLUMN BEARING ON BEAM
 3/4" = 1'-0"



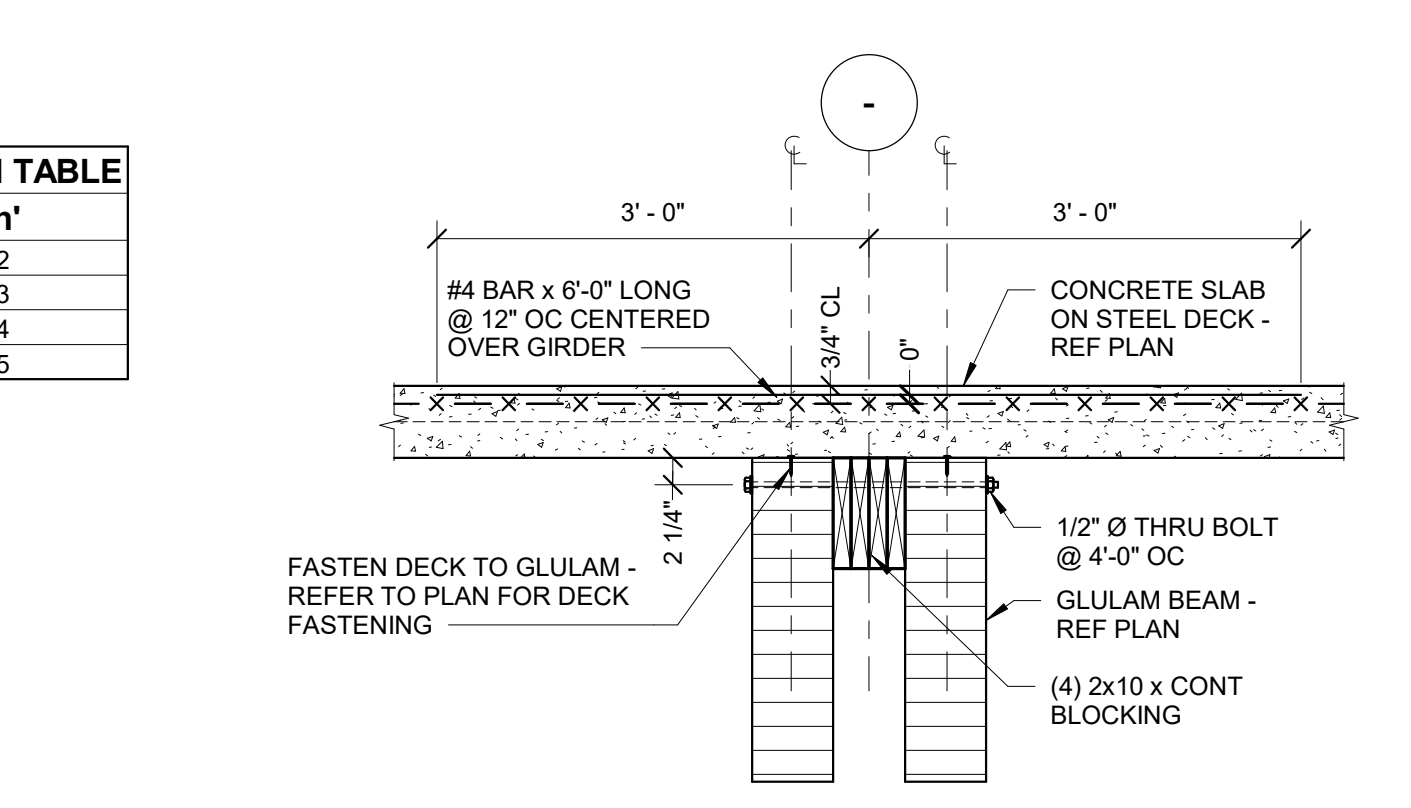
4 BEAM BEARING ON COLUMN
 3/4" = 1'-0"



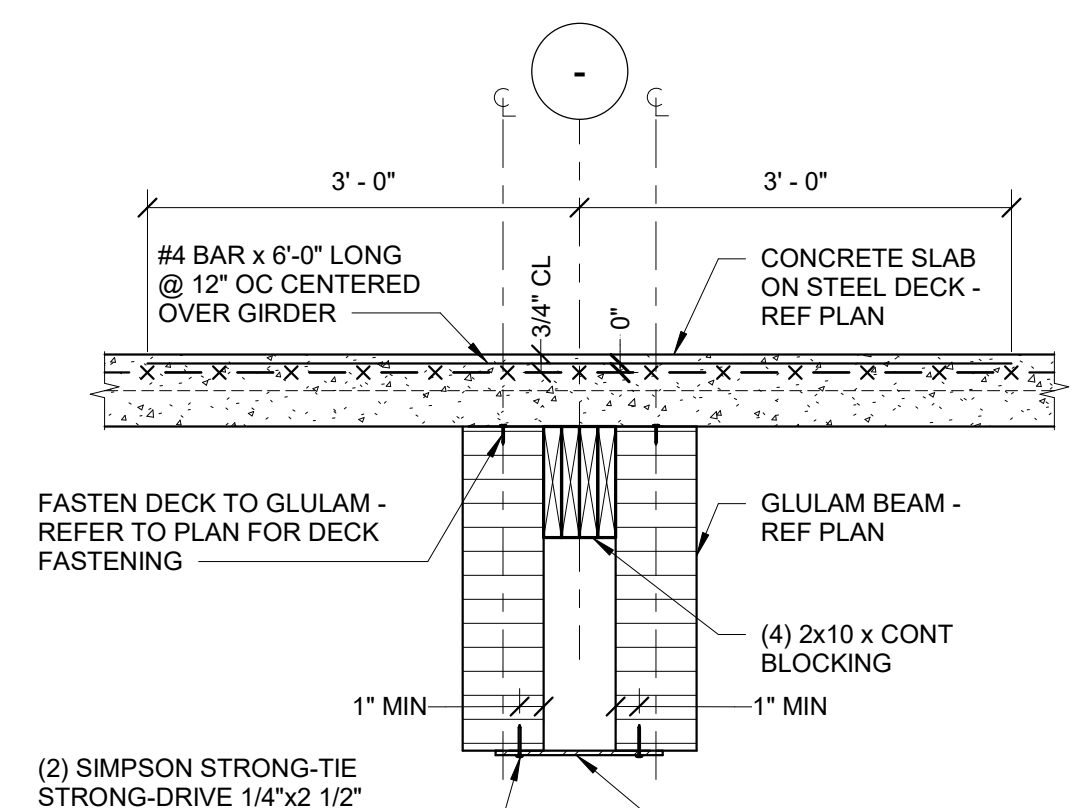
5 TYPICAL ROOF MOMENT CONNECTION
 3/4" = 1'-0"



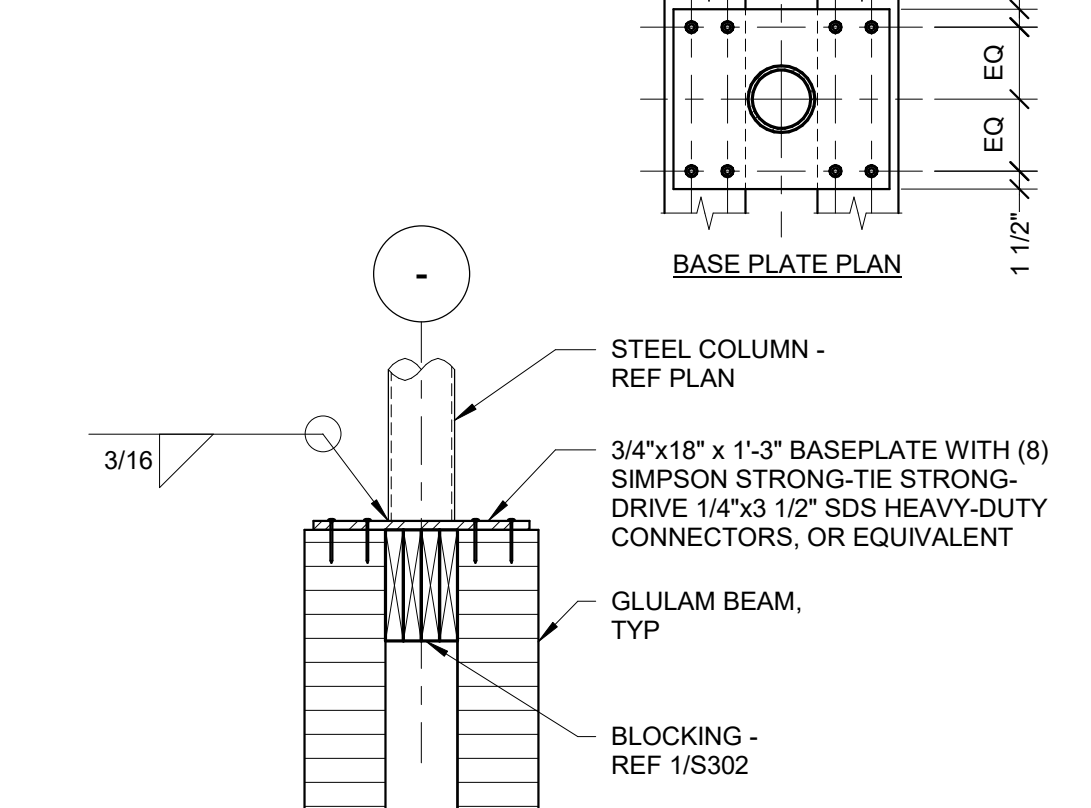
6 TYPICAL SHEAR CONNECTION
 1 1/2" = 1'-0"
 NOTES:
 1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
 2. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
 3. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
 4. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
 5. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.
 6. WHERE BEAMS FRAME INTO EXISTING COLUMNS USE THE KNIFE PLATE CONNECTION WITH A FIELD WELD TO EXISTING COLUMN.



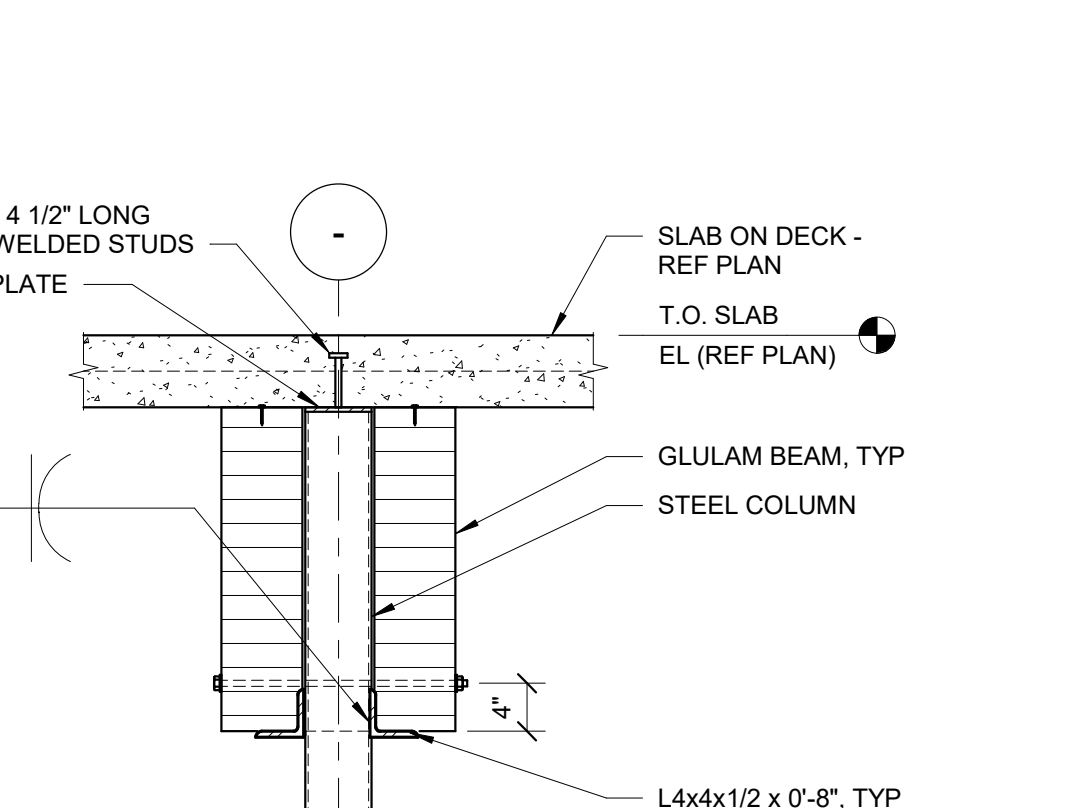
7 TYPICAL GLULAM BEAM DETAIL
 3/4" = 1'-0"



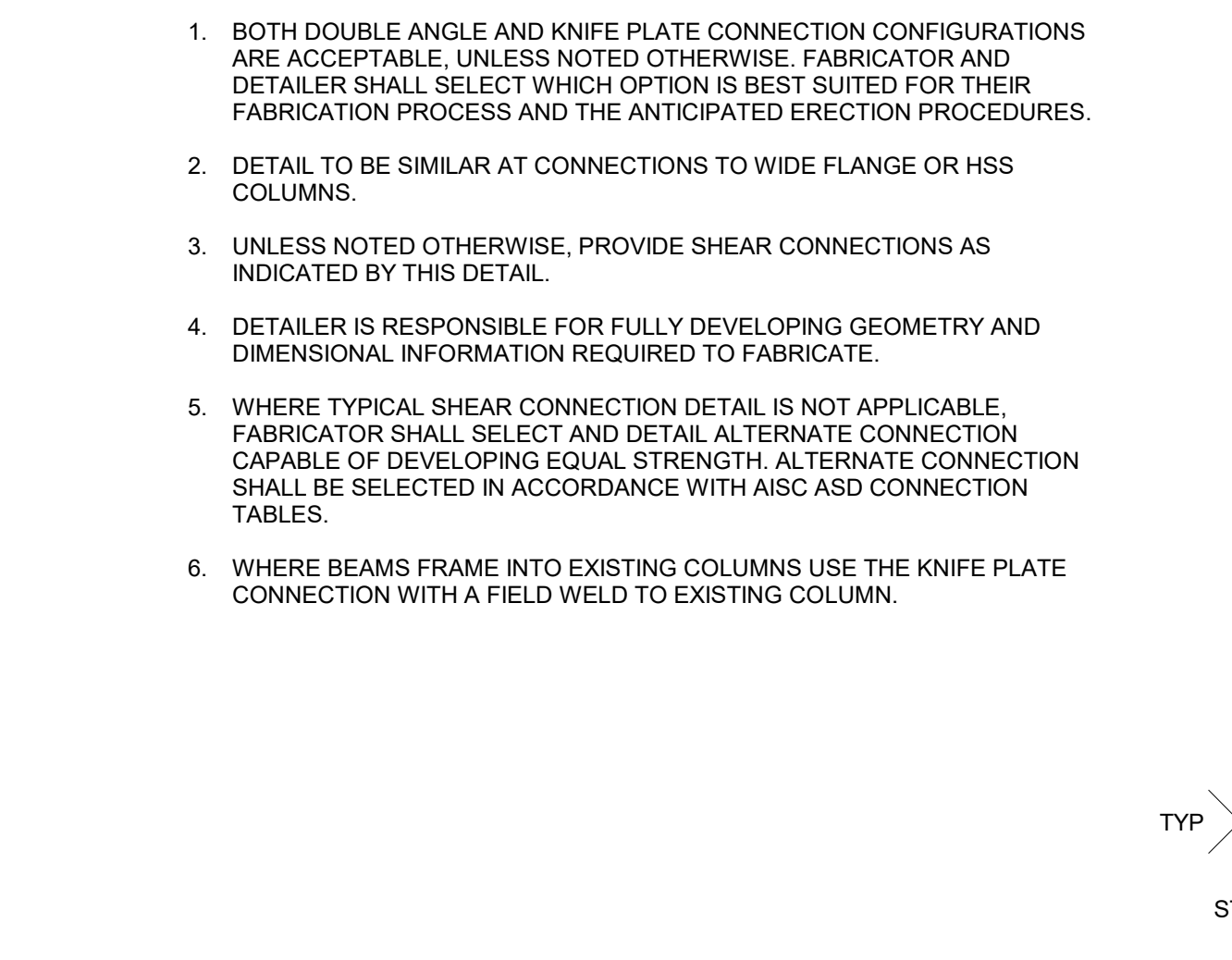
8 PARTITION SUPPORT DETAIL
 3/4" = 1'-0"
 NOTES:
 1. CONNECTION SHOWN IS DESIGNED TO SUPPORT 1000 LB POINT LOAD FROM THE OPERABLE PARTITION.



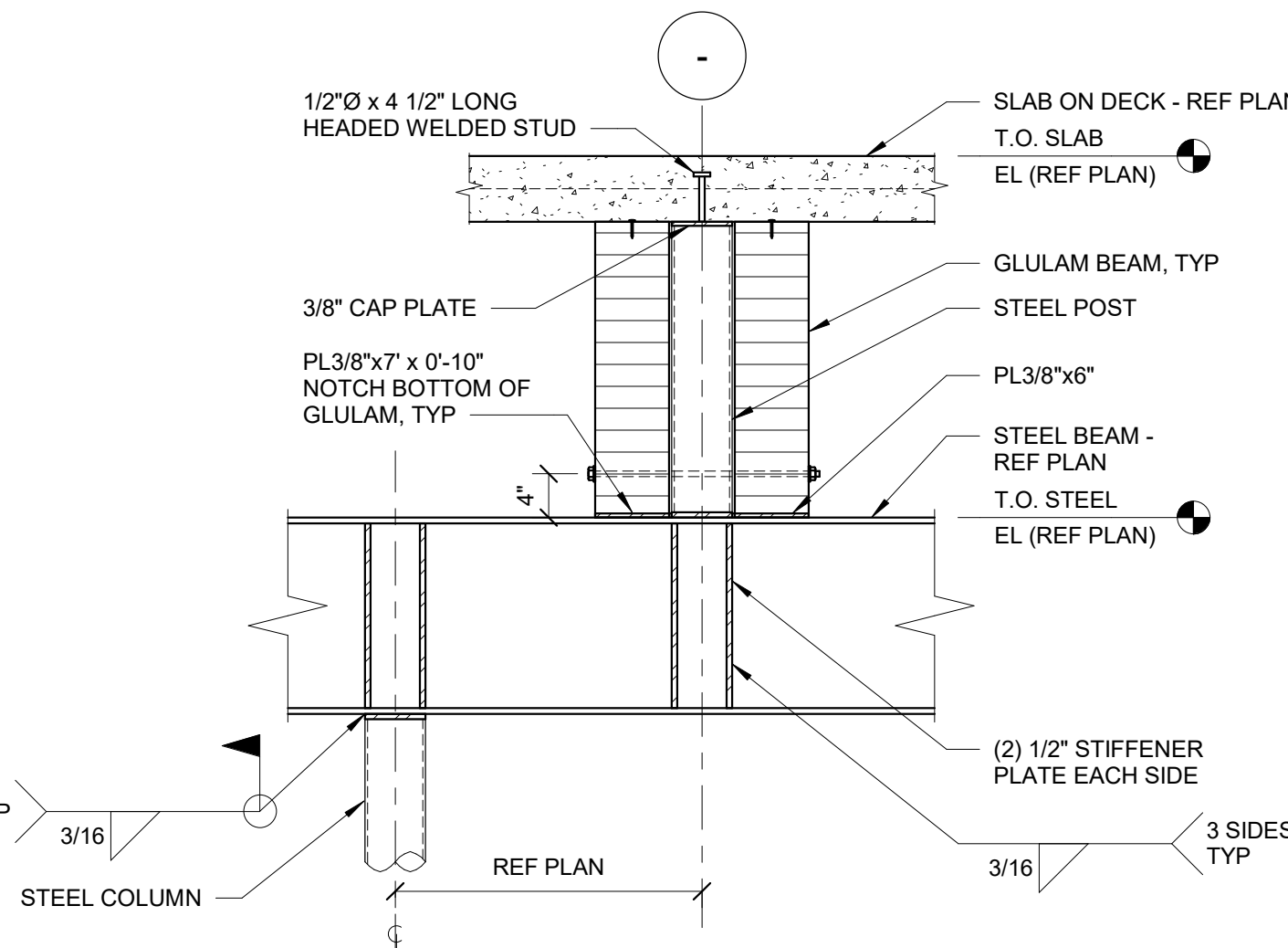
9 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. CONCRETE DECK NOT SHOWN FOR CLARITY.



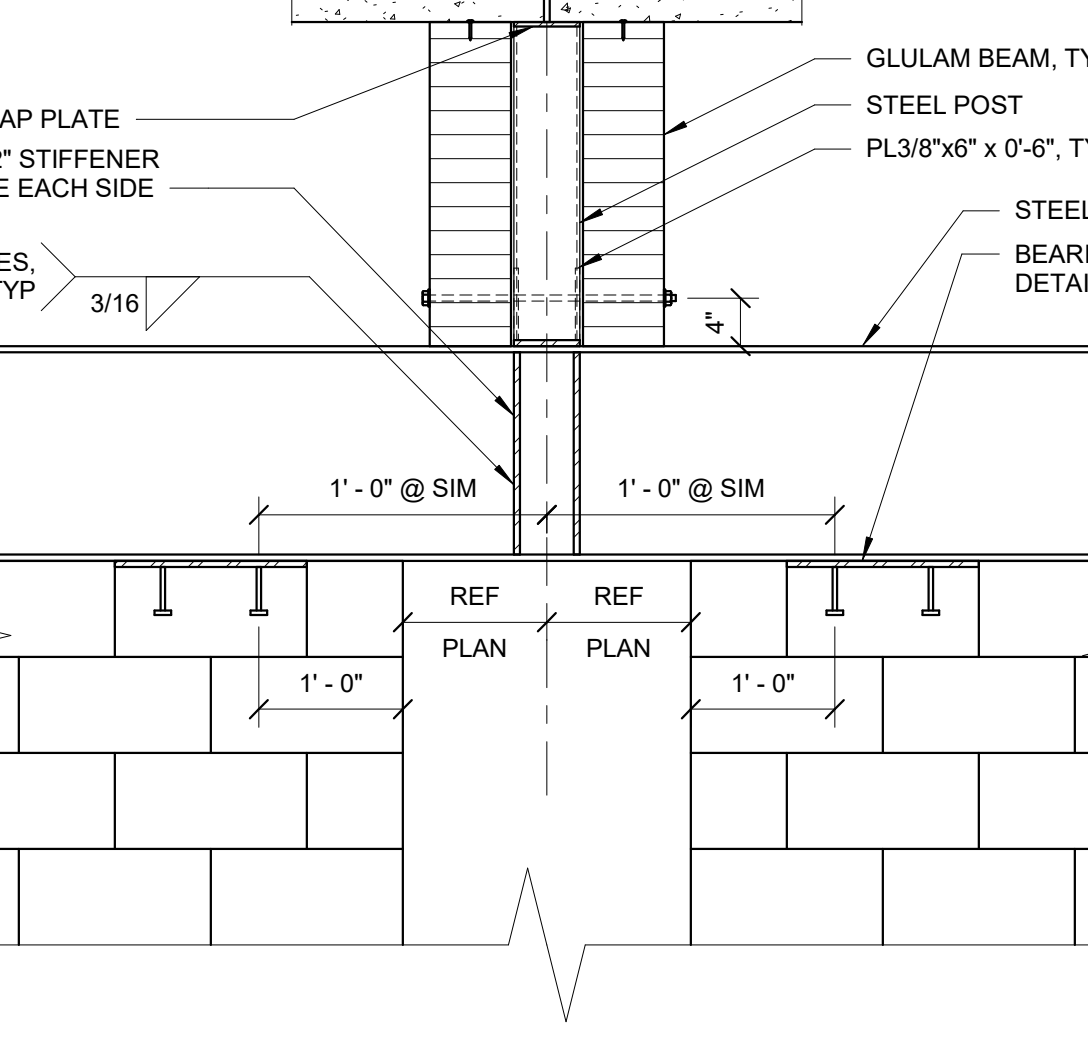
10 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. BLOCKING BETWEEN GLULAMS IS NOT SHOWN FOR CLARITY.



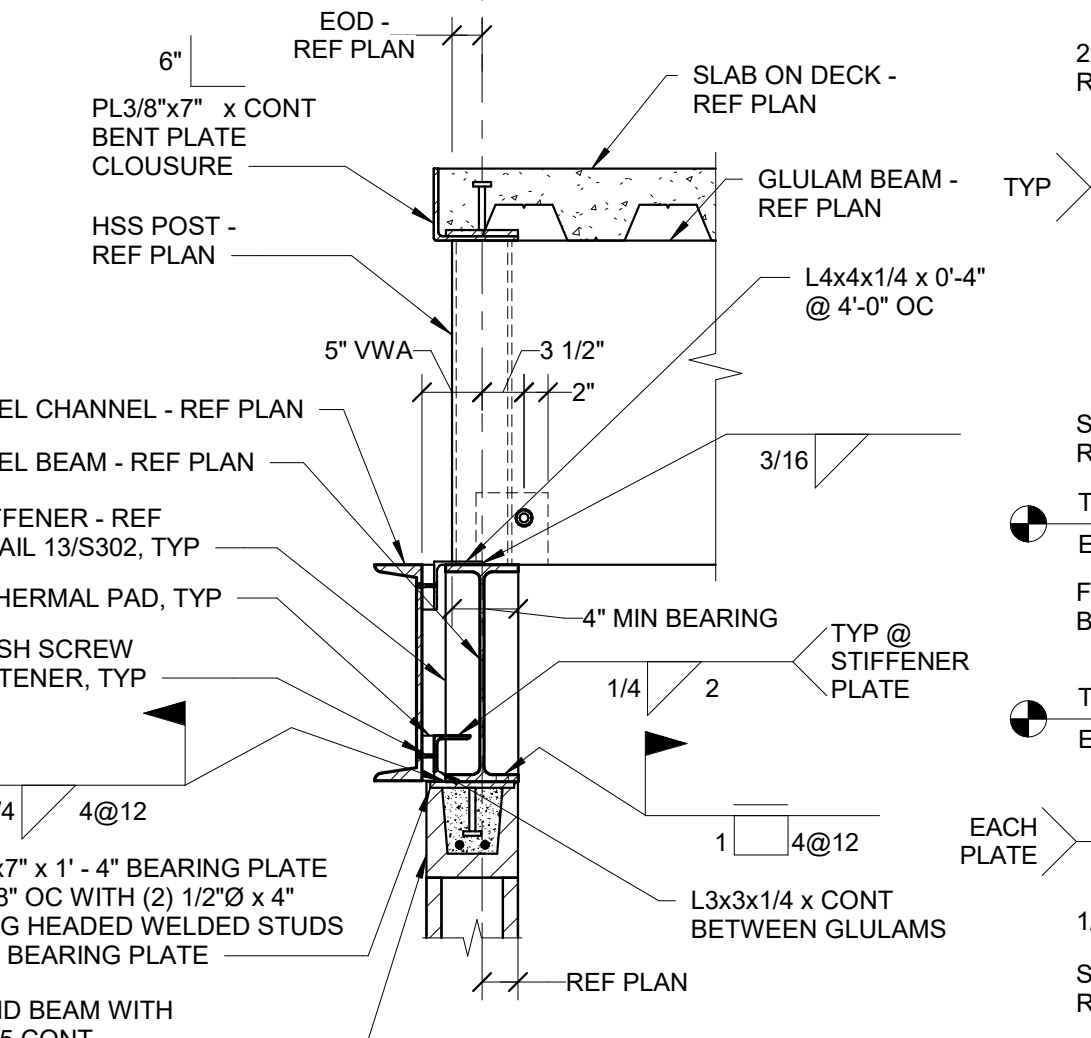
11 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. BLOCKING BETWEEN GLULAMS IS NOT SHOWN FOR CLARITY.



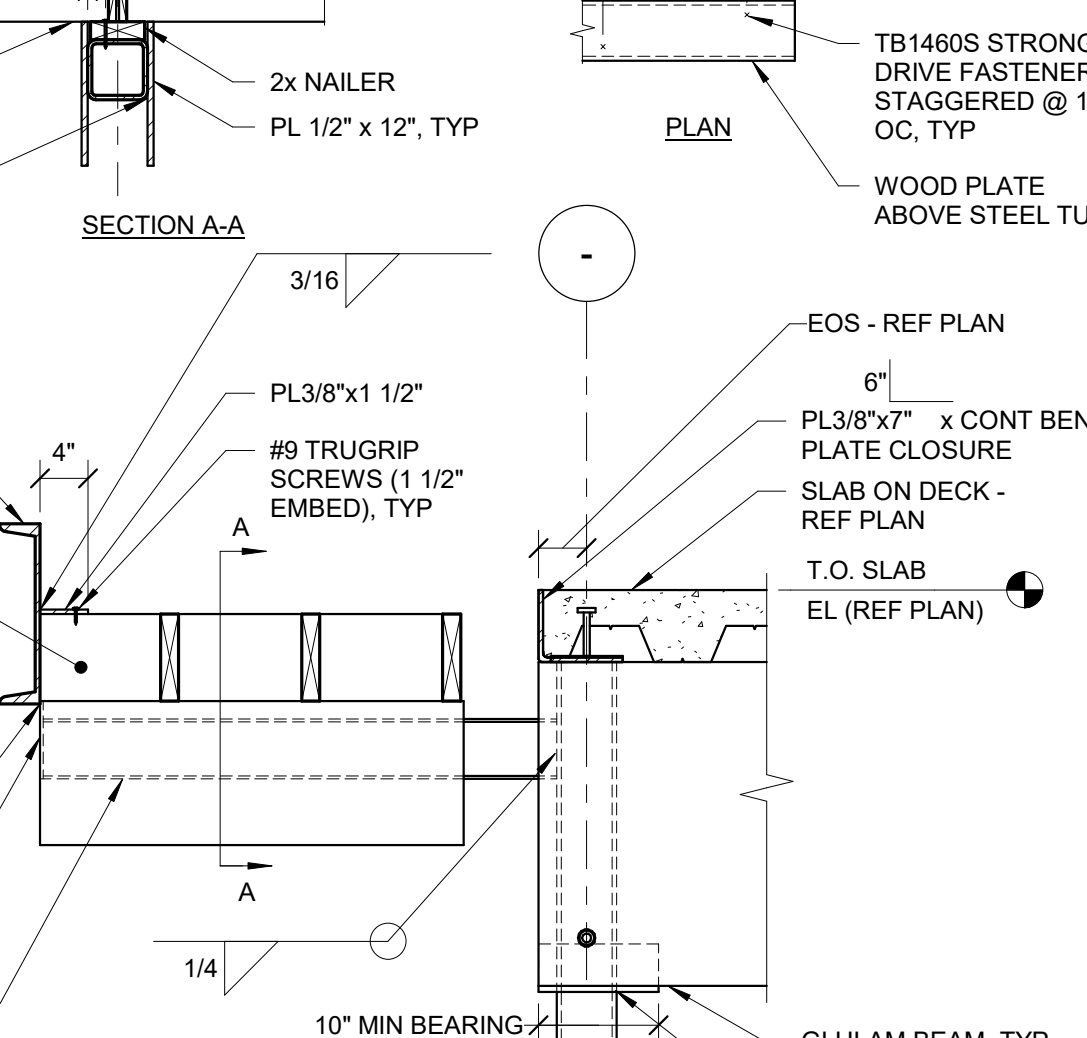
12 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. BLOCKING BETWEEN GLULAMS IS NOT SHOWN FOR CLARITY.



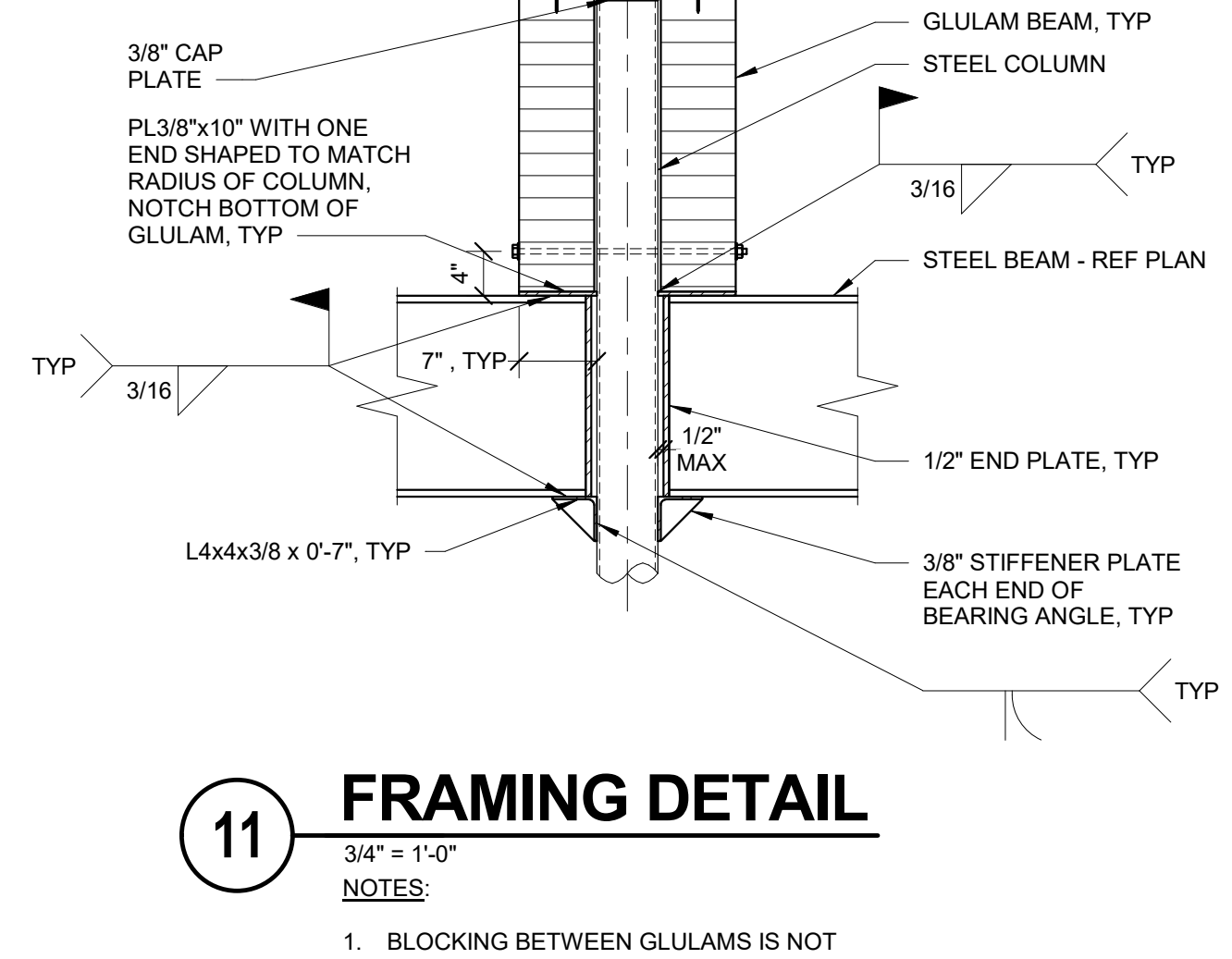
13 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. NO OPENING BELOW POST BEARING AT SIM.
 2. BLOCKING BETWEEN GLULAMS IS NOT SHOWN FOR CLARITY.



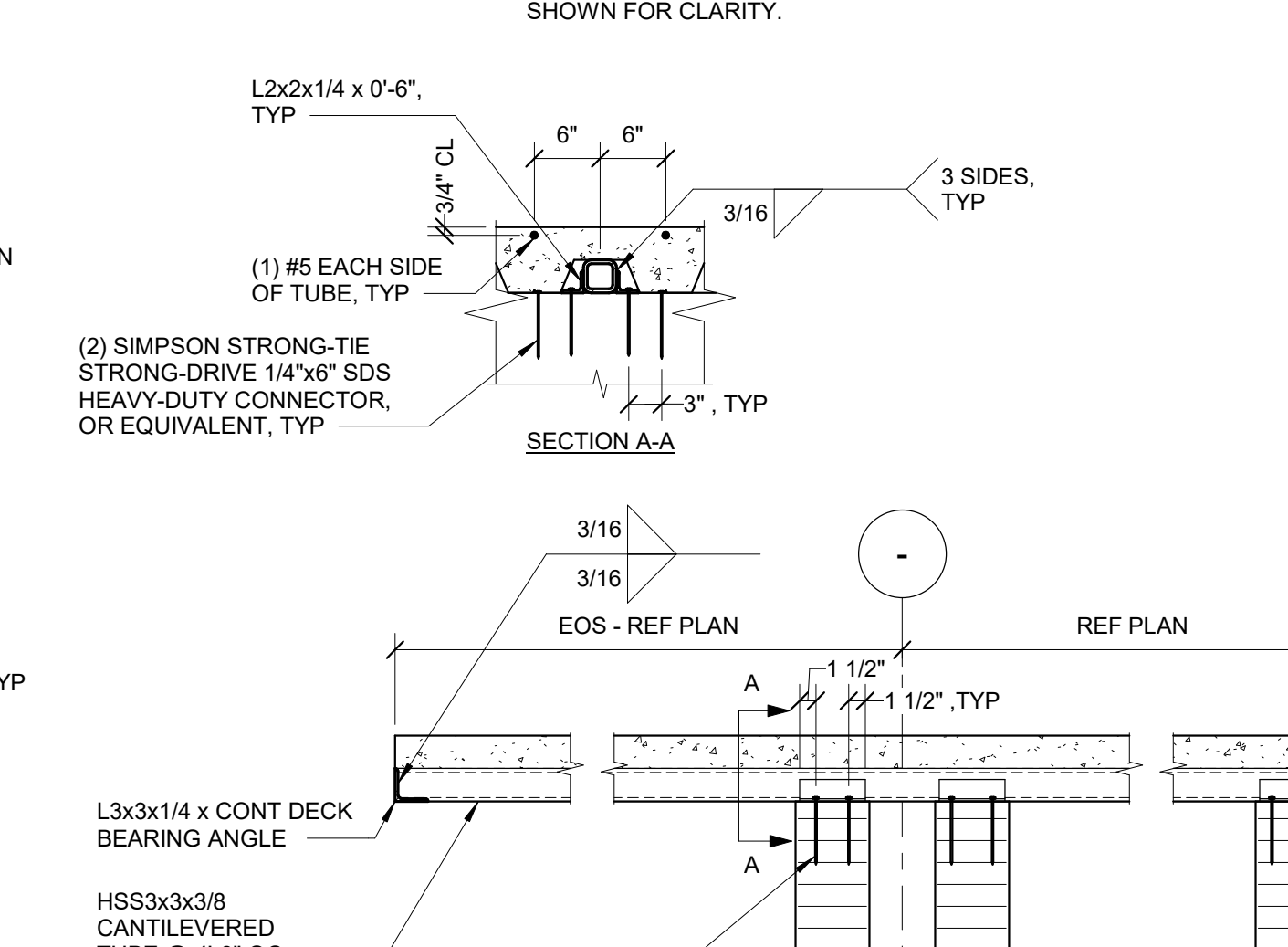
14 FRAMING DETAIL
 3/4" = 1'-0"



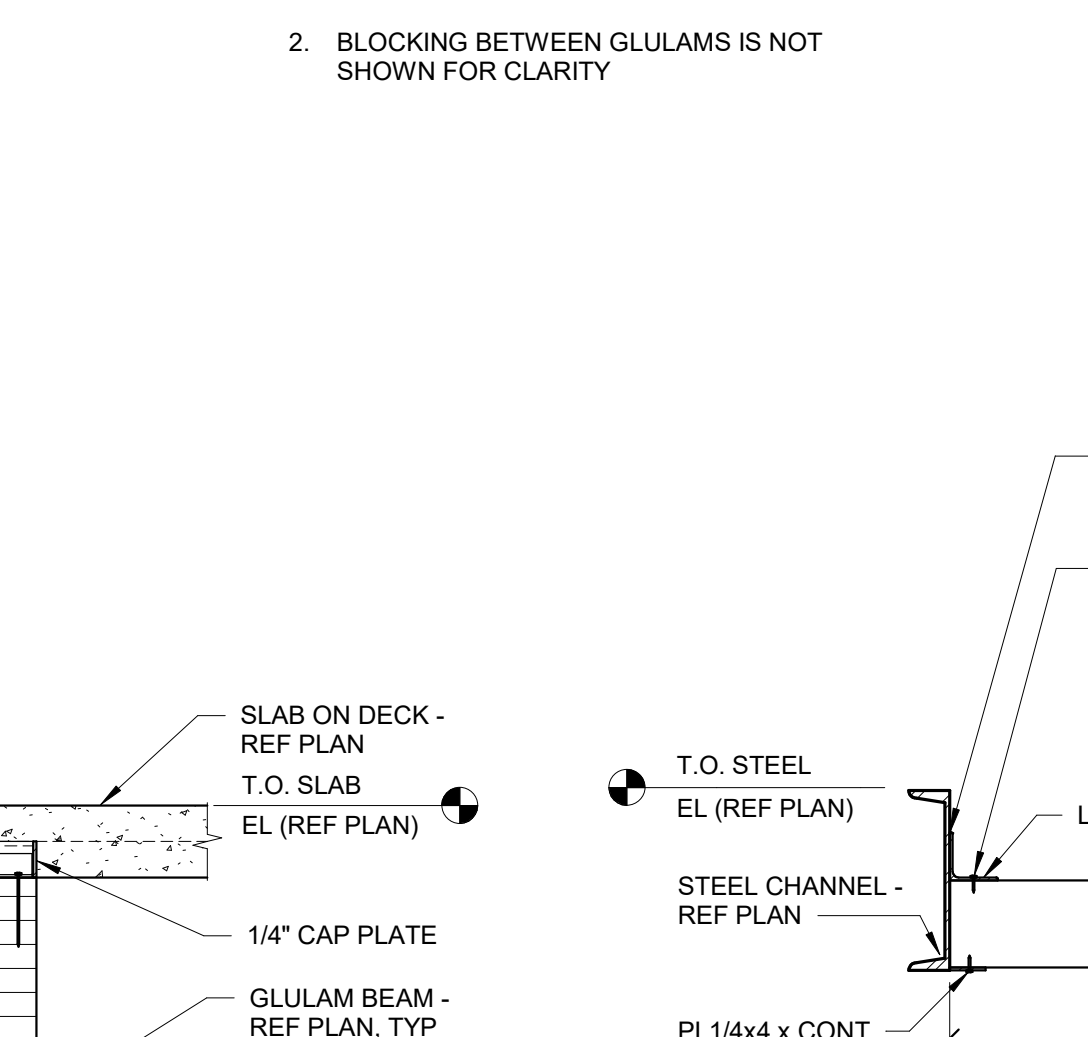
15 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. ALL WELDS TO BE SEAL WELDED AND VENT HOLES TO BE PLUGGED.



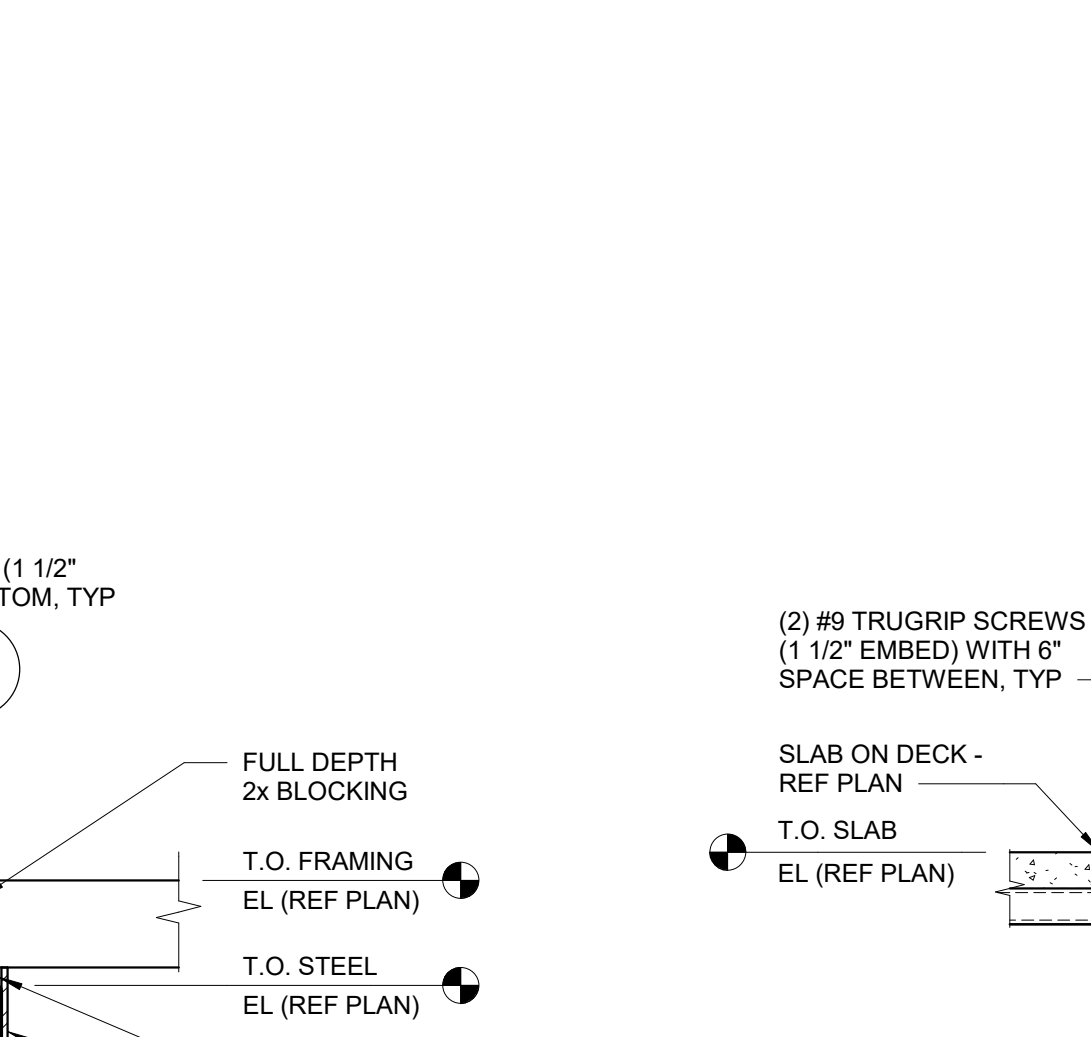
16 FRAMING DETAIL
 3/4" = 1'-0"
 NOTES:
 1. BLOCKING BETWEEN GLULAMS IS NOT SHOWN FOR CLARITY.



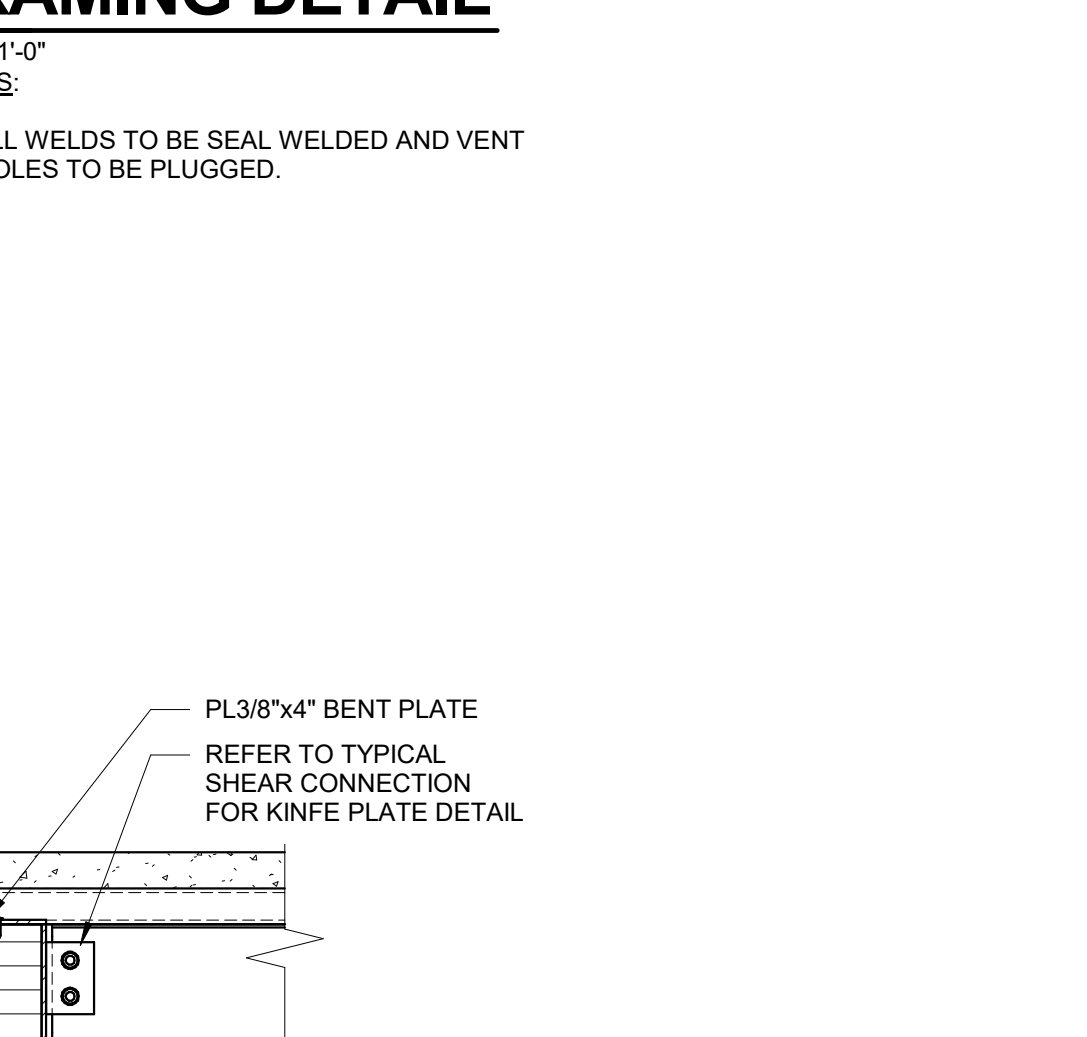
17 CHANNEL EDGE DETAIL
 3/4" = 1'-0"



18 SHEAR CONNECTION TO GLULAM
 3/4" = 1'-0"



19 FRAMING DETAIL
 3/4" = 1'-0"



20 FRAMING DETAIL
 3/4" = 1'-0"

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 513.242.0310 tel

Olbrich Botanical Gardens Expansion Phase 1
 BPW Project #8162
 3330 Atwood Avenue
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin. ARCHITECT SEAL.

DANIEL JACK POLING
 A-9984
 MINNEAPOLIS, MN
 ARCHITECT

Signature: *[Signature]*
 Print Names: _____
 Date: JUNE 1, 2018 License No: _____

MARK	DATE	DESCRIPTION
	12.08.2017	00 PRICING SET
	01.10.2018	DESIGN DEVELOPMENT SUBMISSION
	03.30.2018	70% CD SUBMISSION
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	06.04.2018	PERMIT ISSUE

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