

ELEVATION KEY
 +116'-0" = +467.50' (CIVIL ELEVATION)

**AREA A & B
 OVERALL SECOND LEVEL/LOW ROOF FRAMING PLAN**

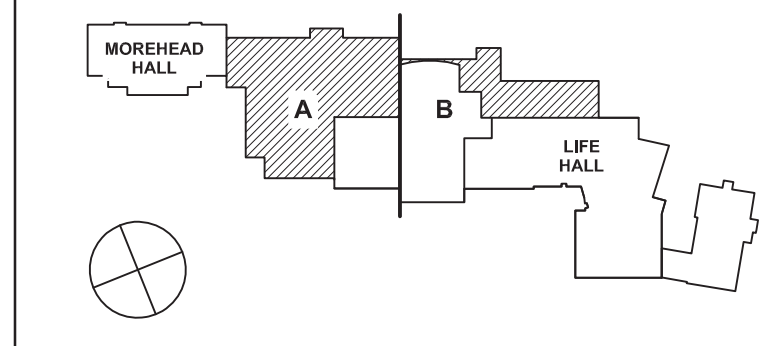
- SCALE: 1/16"=1'-0"
- TOP OF SLAB ELEVATION +116'-0" (DATUM) UNLESS OTHERWISE NOTED.
 - ALL ELEVATIONS SHOWN THUS (+X'-X") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 - TYPICAL FLOOR CONSTRUCTION: 3-1/2" LIGHTWEIGHT CONCRETE FILL (115 PCF DESIGN WEIGHT, 4,000 PSI AT 28 DAYS REINFORCED W/ 6x6-W2.1x2.1 WWF PLACED 1" DOWN FROM TOP OF SLAB) ON 1-1/2" - 20 GAGE GALVANIZED (G60) 1.5 LVI BY VULCRAFT (OR APPROVED EQUAL). 5" TOTAL SLAB THICKNESS.
 - TYPICAL ROOF DECK: 1-1/2" WIDE RIB 20 GAGE GALVANIZED, TYPE 1.5B BY VULCRAFT (OR APPROVED EQUAL). COORDINATE WITH THE ARCHITECTURAL ROOM FINISH REQUIREMENTS FOR DECK THAT IS TO BE GALVANIZED AND SHOP PRIMED AND FIELD PAINTED. LOW ROOF FRAMING IS HATCHED ON PLAN AS INDICATED.
 - ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 - ALL STEEL TO BE ASTM - A992 GRADE 50 HIGH STRENGTH.
 - [99] INDICATES THE NUMBER OF 3/4"Ø x 3-3/4" LONG (AFTER WELDING) SHEAR STUDS EQUALLY SPACED FOR THE ENTIRE LENGTH OF THE BEAM.
 - FLOOR/ROOF DECK SUPPLIER TO PROVIDE ANGLE CLOSURE AROUND PERIMETER AND ALL AROUND FLOOR/ROOF OPENINGS UNLESS OTHERWISE NOTED; GAGE AS REQUIRED (#16 GAGE MINIMUM).
 - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL PLANS AND THE SPECIFIC CONTROL PLAN PREPARED FOR EACH LEVEL AND/OR REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - SEE DRAWINGS S0102.A AND S0102.B FOR ENLARGED 1/8"-INCH SCALE PLANS OF THE SECOND LEVEL AND LOW ROOF FRAMING OF AREA A AND B RESPECTIVELY.
 - SEE DRAWING S-0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

EXISTING CONDITIONS GENERAL NOTES

- (UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)
- DIMENSIONS AND ELEVATIONS OF EXISTING CONDITIONS GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BY ACTUAL MEASUREMENT PRIOR TO BEGINNING WORK, AND WHEN FEASIBLE, PRIOR TO SHOP DRAWINGS SUBMITTALS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE SAID DISCREPANCIES WITH ALL SUB-CONTRACTORS AND MATERIAL SUPPLIERS.
 - EXISTING FOUNDATION AND FRAMING SHOWN ON PLANS IS BASED ON LIMITED EXISTING DESIGN DOCUMENTATION AND ACTUAL FIELD CONDITIONS NEED TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AND MAKE SAFE ALL FLOORS AND/OR ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. DESIGN SHALL BE CERTIFIED BY A LICENSED ENGINEER EMPLOYED BY THE CONTRACTOR.
 - WHERE NEW AND EXISTING STRUCTURAL WORK OVERLAP THE CONTRACTOR IS TO INSURE ALL EXISTING FRAMING IS SHORED AND BRACED PRIOR TO THE INSTALLATION OF THE NEW CONSTRUCTION WHERE NEW CONSTRUCTION IS REQUIRED TO SUPPORT THE EXISTING FRAMING AND/OR CONSTRUCTION.

Name: Marc Bowen, PE	DATE
NJ License Number: 44034	11/21/14
CONFORMED SET	2015/06/12

2	ADDENDUM 3	2015/04/27
1	ADDENDUM 1	2015/04/03
	BID SET	2015/03/11
No.	Description	Date



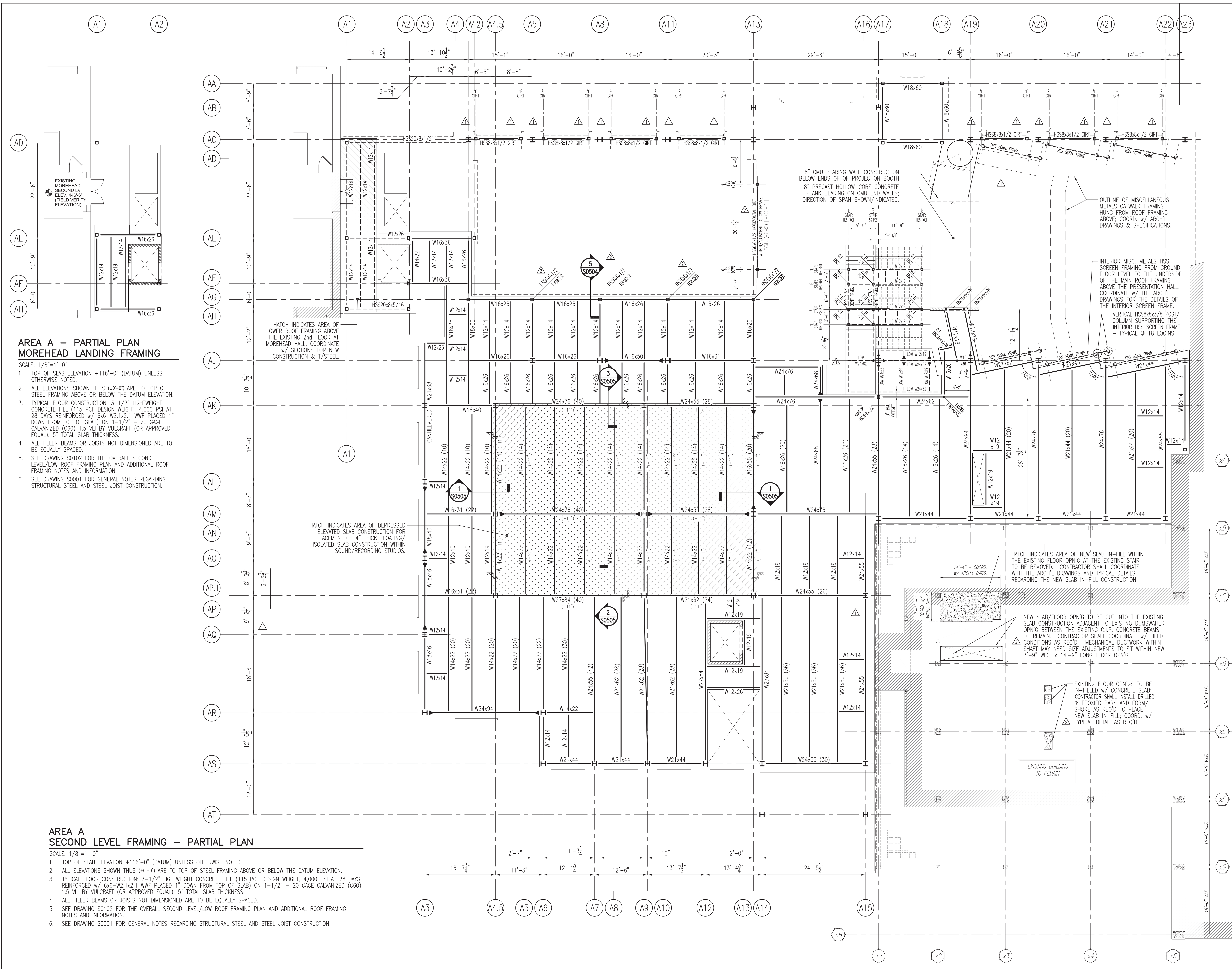
KEY PLAN

OVERALL SECOND LEVEL / LOW ROOF FRAMING PLAN

Project No.: 003994.02 Checked by: ---

S0102

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AREA A - PARTIAL PLAN MOREHEAD LANDING FRAMING

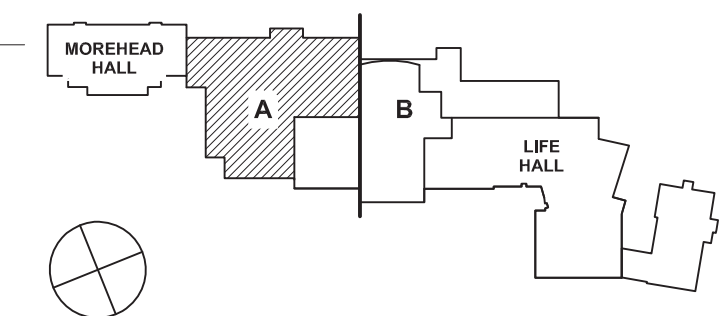
- SCALE: 1/8"=1'-0"
- TOP OF SLAB ELEVATION +116'-0" (DATUM) UNLESS OTHERWISE NOTED.
 - ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 - TYPICAL FLOOR CONSTRUCTION: 3-1/2" LIGHTWEIGHT CONCRETE FILL (115 PCF DESIGN WEIGHT, 4,000 PSI AT 28 DAYS REINFORCED W/ 6x6-W2.1x2.1 WWF PLACED 1" DOWN FROM TOP OF SLAB) ON 1-1/2" - 20 GAGE GALVANIZED (G60) 1.5 VJI BY VULCRAFT (OR APPROVED EQUAL), 5" TOTAL SLAB THICKNESS.
 - ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 - SEE DRAWING S0102 FOR THE OVERALL SECOND LEVEL/LOW ROOF FRAMING PLAN AND ADDITIONAL ROOF FRAMING NOTES AND INFORMATION.
 - SEE DRAWING S0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

AREA A SECOND LEVEL FRAMING - PARTIAL PLAN

- SCALE: 1/8"=1'-0"
- TOP OF SLAB ELEVATION +116'-0" (DATUM) UNLESS OTHERWISE NOTED.
 - ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 - TYPICAL FLOOR CONSTRUCTION: 3-1/2" LIGHTWEIGHT CONCRETE FILL (115 PCF DESIGN WEIGHT, 4,000 PSI AT 28 DAYS REINFORCED W/ 6x6-W2.1x2.1 WWF PLACED 1" DOWN FROM TOP OF SLAB) ON 1-1/2" - 20 GAGE GALVANIZED (G60) 1.5 VJI BY VULCRAFT (OR APPROVED EQUAL), 5" TOTAL SLAB THICKNESS.
 - ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 - SEE DRAWING S0102 FOR THE OVERALL SECOND LEVEL/LOW ROOF FRAMING PLAN AND ADDITIONAL ROOF FRAMING NOTES AND INFORMATION.
 - SEE DRAWING S0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

Name: Marc Bowen, PE DATE: 11/21/14
NJ License Number: 44034 11/21/14

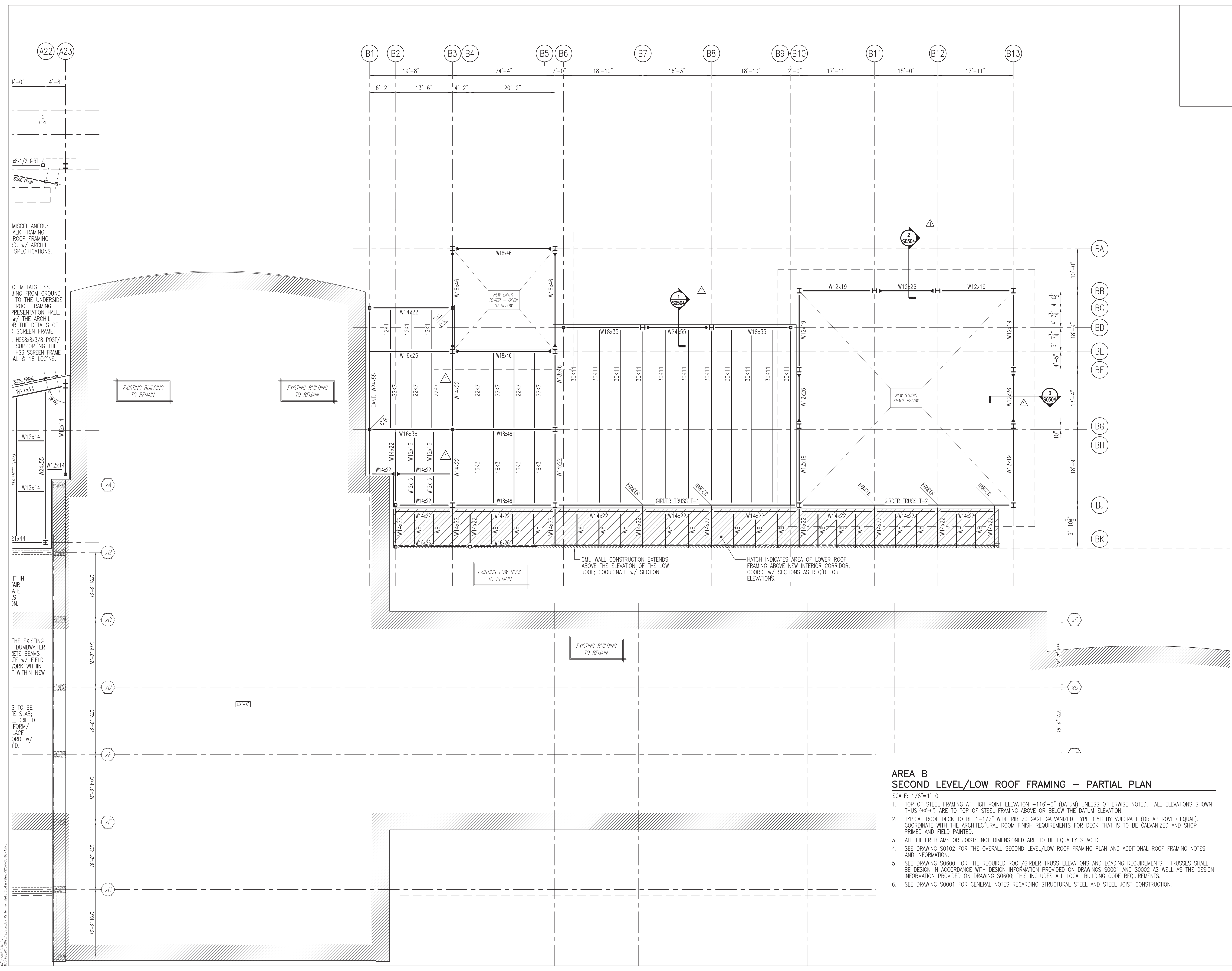
No.	Description	Date
1	ADDENDUM 1	2015/04/03
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	BID SET	2015/03/11



AREA A - SECOND LEVEL FRAMING PLAN

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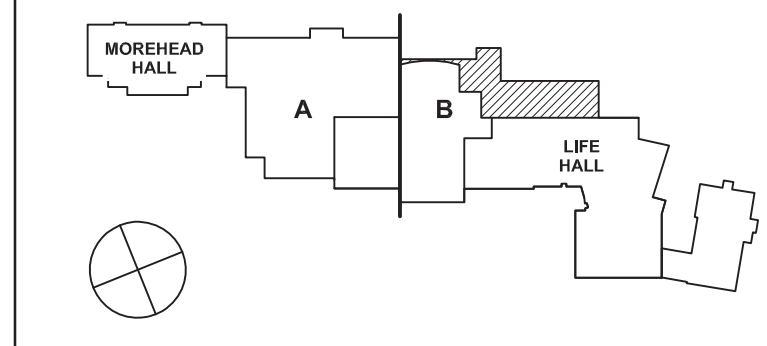


**AREA B
SECOND LEVEL/LOW ROOF FRAMING - PARTIAL PLAN**

- SCALE: 1/8"=1'-0"
- TOP OF STEEL FRAMING AT HIGH POINT ELEVATION +116'-0" (DATUM) UNLESS OTHERWISE NOTED. ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 - TYPICAL ROOF DECK TO BE 1-1/2" WIDE RIB 20 GAGE GALVANIZED, TYPE 1.5B BY VULCRAFT (OR APPROVED EQUAL), COORDINATE WITH THE ARCHITECTURAL ROOM FINISH REQUIREMENTS FOR DECK THAT IS TO BE GALVANIZED AND SHOP PRIMED AND FIELD PAINTED.
 - ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 - SEE DRAWING S0102 FOR THE OVERALL SECOND LEVEL/LOW ROOF FRAMING PLAN AND ADDITIONAL ROOF FRAMING NOTES AND INFORMATION.
 - SEE DRAWING S0600 FOR THE REQUIRED ROOF/GIRDER TRUSS ELEVATIONS AND LOADING REQUIREMENTS. TRUSSES SHALL BE DESIGN IN ACCORDANCE WITH DESIGN INFORMATION PROVIDED ON DRAWINGS S0001 AND S0002 AS WELL AS THE DESIGN INFORMATION PROVIDED ON DRAWING S0600; THIS INCLUDES ALL LOCAL BUILDING CODE REQUIREMENTS.
 - SEE DRAWING S0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

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	BID SET	2015/03/11

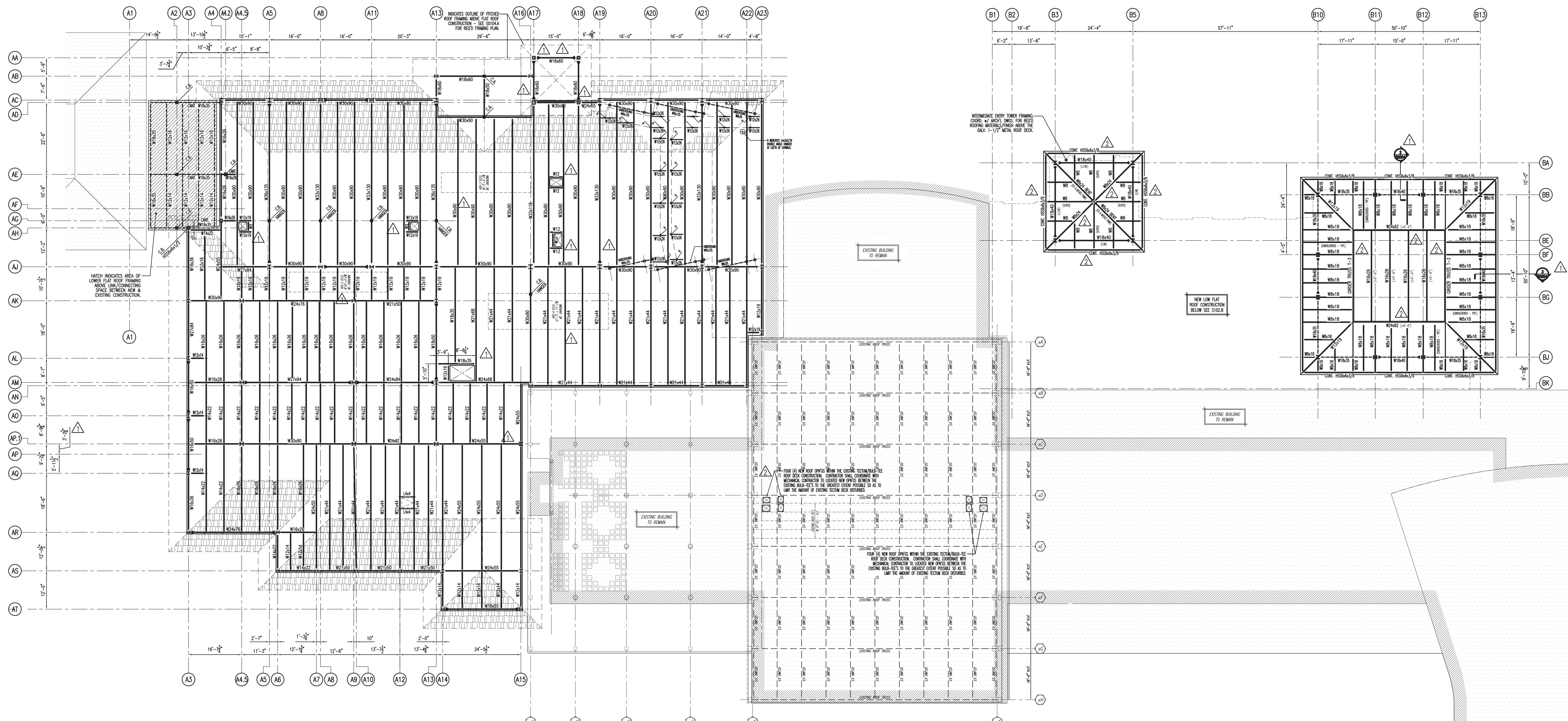


KEY PLAN

Drawing Title:
**AREA B -
SECOND LEVEL / LOW
ROOF FRAMING PLAN**

Project No.: 003994.02 Checked by: ---

S0102.B



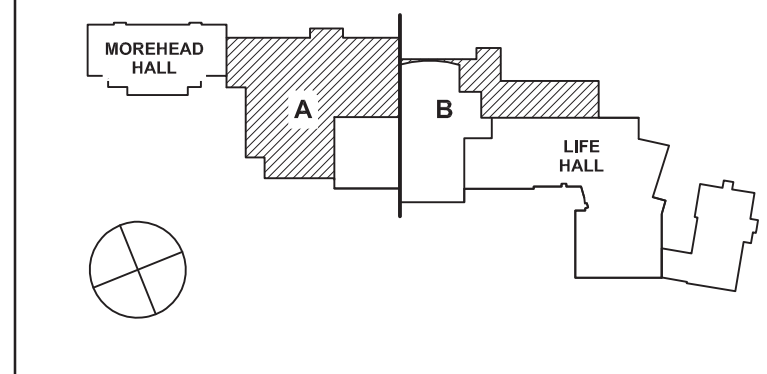
ELEVATION KEY
 +132'-0" = +483.50' (CIVIL ELEVATION)

**AREA A & B
 OVERALL ROOF FRAMING PLAN**

- SCALE: 1/16"=1'-0"
- TOP OF STEEL FRAMING AT HIGH POINT ELEVATION +132'-0" (DATUM) UNLESS OTHERWISE NOTED. ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 - TYPICAL ROOF DECK: 1-1/2" WIDE RIB 20 GAGE GALVANIZED, TYPE 1.5B BY VULCRAFT (OR APPROVED EQUAL). COORDINATE WITH THE ARCHITECTURAL ROOM FINISH REQUIREMENTS FOR DECK THAT IS TO BE GALVANIZED AND SHOP PRIMED AND FIELD PAINTED. LOW ROOF FRAMING IS HATCHED ON PLAN AS INDICATED.
 - ROOF FILLER BEAMS AND/OR JOISTS WITHOUT ELEVATIONS ARE SLOPED. TOP FLANGE OF FILLER BEAMS ARE TO BE FLUSH WITH CARRYING BEAM TOP FLANGE UNLESS OTHERWISE NOTED.
 - USE L4x4x5/16 DROP-IN ANGLE FRAME FOR ALL ROOF OPENINGS UNLESS OTHERWISE NOTED; COORDINATE WITH TYPICAL DETAIL ON DRAWING S0500.
 - DROP-IN ANGLE FRAMES PROVIDED FOR ROOF DRAINS SHALL BE 27"x23" CLEAR. THE 27" DIMENSION RUNS PARALLEL TO THE ROOF SLOPE.
 - ROOF DECK SUPPLIER SHALL PROVIDE 20 GAGE FINISH STRIPS, BUTT STRIPS, REINFORCING CHANNELS, RIDGE AND/OR VALLEY PLATES, SEALER SHEETS, ETC. AS REQUIRED OR INDICATED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
 - DECK SUPPLIER SHALL PROVIDE A 12"x12"x20 GAGE SEALER SHEET AT ALL PIPE PENETRATIONS 4" Ø OR LESS.
 - ROOF DECK SUPPLIER TO PROVIDE ANGLE CLOSURE ALL AROUND PERIMETER AND ALL AROUND FLOOR OPENINGS (U.O.N.); GAGE AS REQUIRED (#16 GAGE MINIMUM).
 - ALL STEEL TO BE ASTM - A992 GRADE 50 HIGH STRENGTH.
 - ALL FILLER BEAMS AND/OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL PLANS AND THE SPECIFIC CONTROL PLAN PREPARED FOR EACH LEVEL AND/OR REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - SEE DRAWINGS S0103.A AND S0103.B FOR ENLARGED 1/8"-INCH SCALE PLANS OF THE MAIN ROOF FRAMING OF AREA A AND B RESPECTIVELY.
 - SEE DRAWING S0104.A FOR THE SLOPED/PITCHED ROOF AND MAIN TOWER FRAMING PLANS FOR AREA A. COORDINATE ALL FRAMING ELEVATIONS AND ROOF PITCHES WITH THE ARCHITECTURAL DRAWINGS AS REQUIRED.
 - SEE DRAWING S-0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

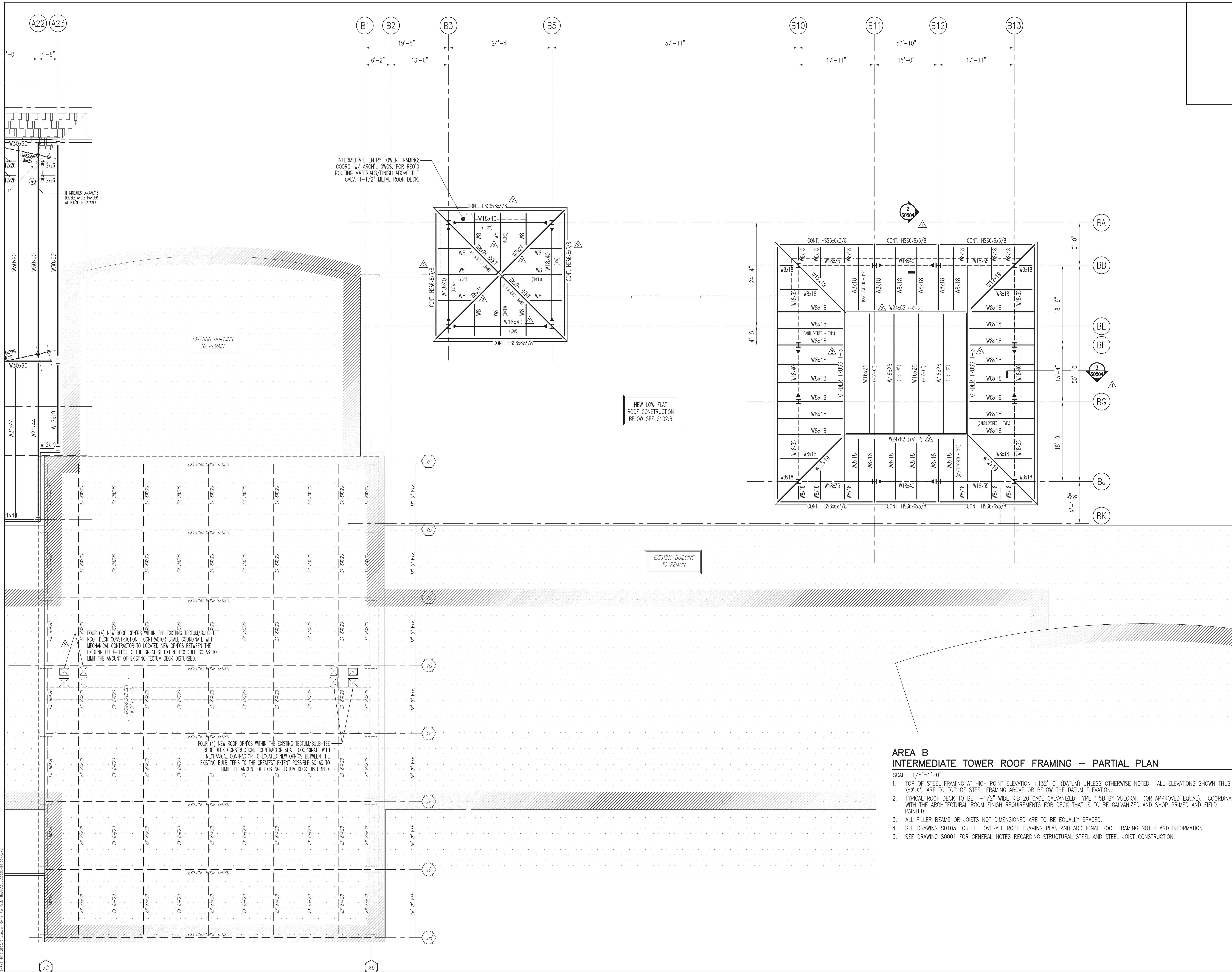
Name: Marc Bowen, PE DATE: 11/21/14
 NJ License Number: 44034
 CONFORMED SET 2015/06/12

2	ADDENDUM 3	2015/04/27
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OVERALL MAIN ROOF - FRAMING PLAN

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**AREA B
INTERMEDIATE TOWER ROOF FRAMING – PARTIAL PLAN**

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

- TOP OF STEEL FRAMING AT HIGH POINT ELEVATION +132'-0" (DATUM) UNLESS OTHERWISE NOTED. ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
- TYPICAL ROOF DECK TO BE 1-1/2" WIDE RIB 20 GAGE GALVANIZED, TYPE 1.5B BY VULCRAFT (OR APPROVED EQUAL). COORDINATE WITH THE ARCHITECTURAL ROOM FINISH REQUIREMENTS FOR DECK THAT IS TO BE GALVANIZED AND SHOP PRIMED AND FIELD PAINTED.
- ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
- SEE DRAWING S0103 FOR THE OVERALL ROOF FRAMING PLAN AND ADDITIONAL ROOF FRAMING NOTES AND INFORMATION.
- SEE DRAWING S0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.

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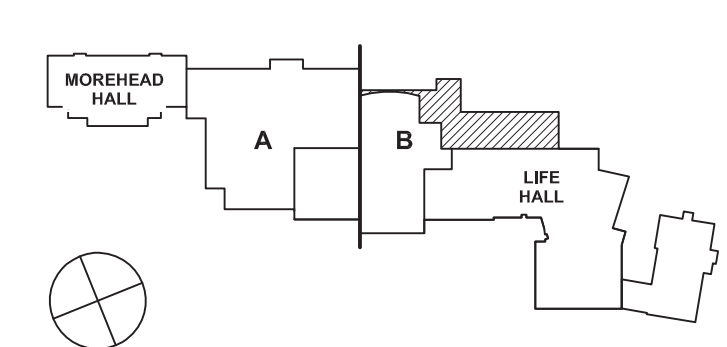
REUTHER + BOWEN
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Pittsburgh, PA 15222

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NJ License Number: 44034	11/21/14
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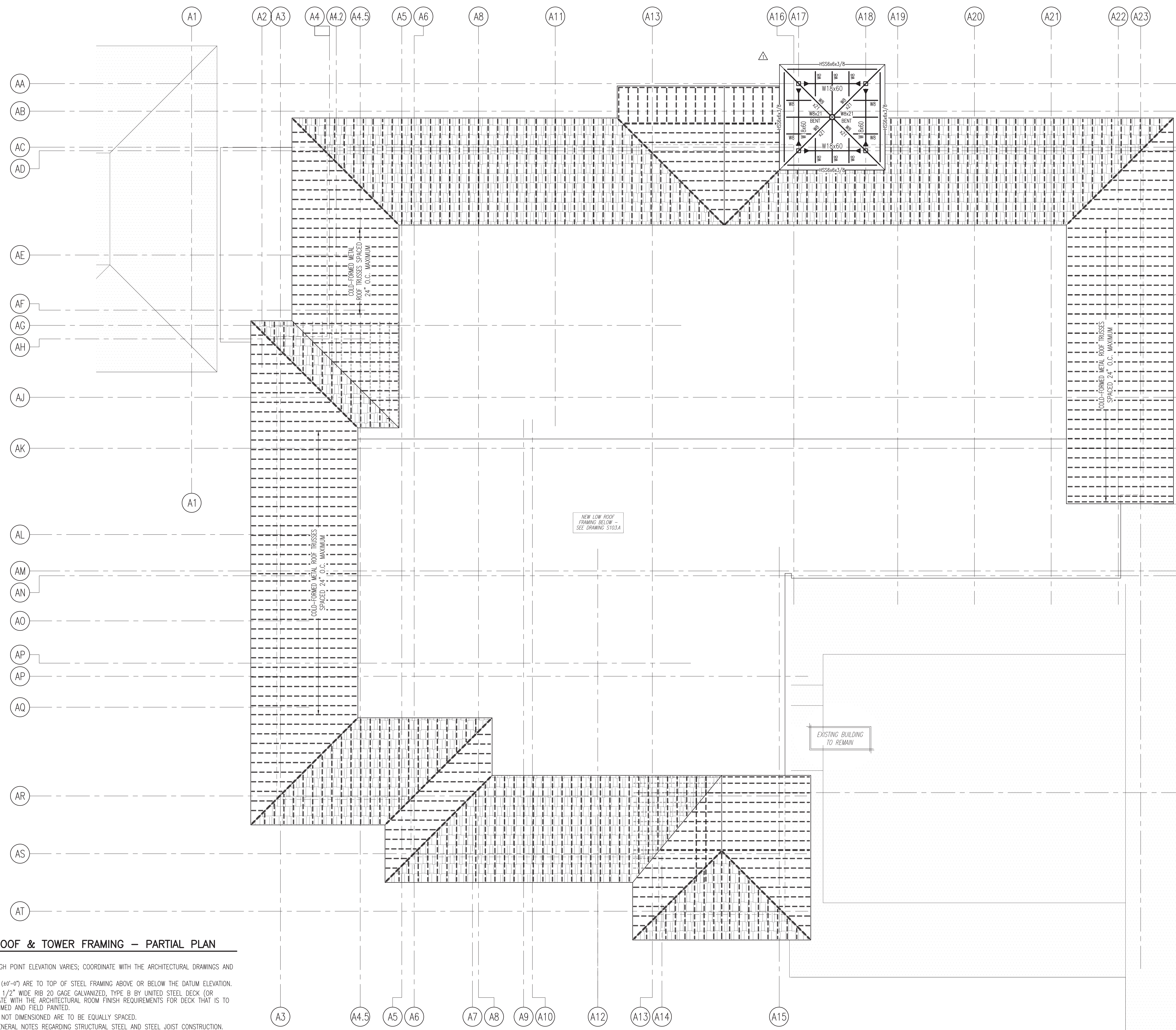


KEY PLAN

AREA B - INTERMEDIATE TOWER & STUDIO ROOF FRAMING PLAN

Project No.: 003994.02 Checked by: ---

S0103.B



**AREA A
PITCHED/SLOPED ROOF & TOWER FRAMING – PARTIAL PLAN**

- SCALE: 1/8"=1'-0"
1. TOP OF STEEL FRAMING AT HIGH POINT ELEVATION VARIES; COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND ELEVATIONS AS REQUIRED.
 2. ALL ELEVATIONS SHOWN THUS (+0'-0") ARE TO TOP OF STEEL FRAMING ABOVE OR BELOW THE DATUM ELEVATION.
 3. TYPICAL ROOF DECK TO BE 1 1/2" WIDE RIB 20 GAGE GALVANIZED, TYPE B BY UNITED STEEL DECK (OR APPROVED EQUAL). COORDINATE WITH THE ARCHITECTURAL ROOM FINISH REQUIREMENTS FOR DECK THAT IS TO BE GALVANIZED AND SHOP PRIMED AND FIELD PAINTED.
 4. ALL FILLER BEAMS OR JOISTS NOT DIMENSIONED ARE TO BE EQUALLY SPACED.
 5. SEE DRAWING S-0001 FOR GENERAL NOTES REGARDING STRUCTURAL STEEL AND STEEL JOIST CONSTRUCTION.



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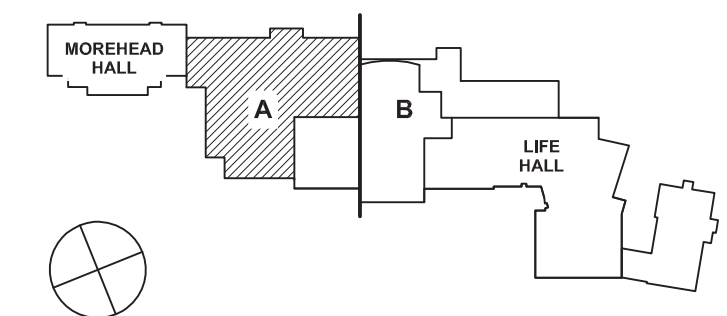
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Name: Marc Bowen, PE DATE: 11/21/14
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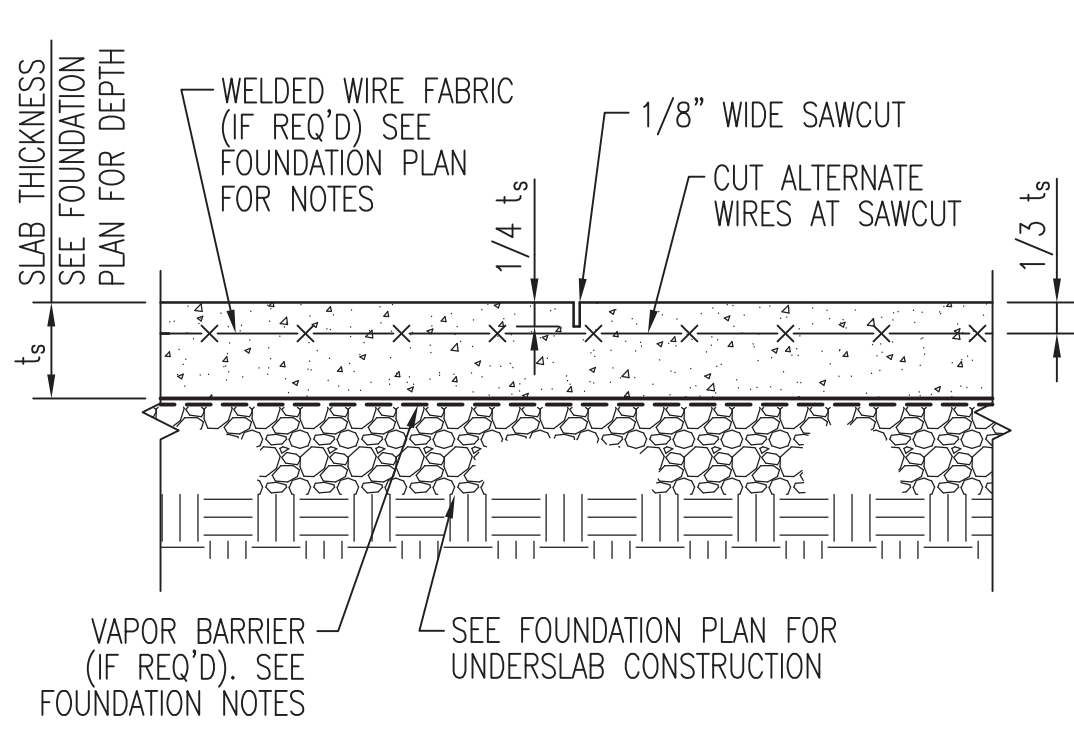
No.	Description	Date
1	ADDENDUM 1	2015/04/03
	BID SET	2015/03/11



AREA A - PITCHED ROOF & MAIN TOWER ROOF FRAMING PLAN

Project No.: 003994.02 Checked by: ---

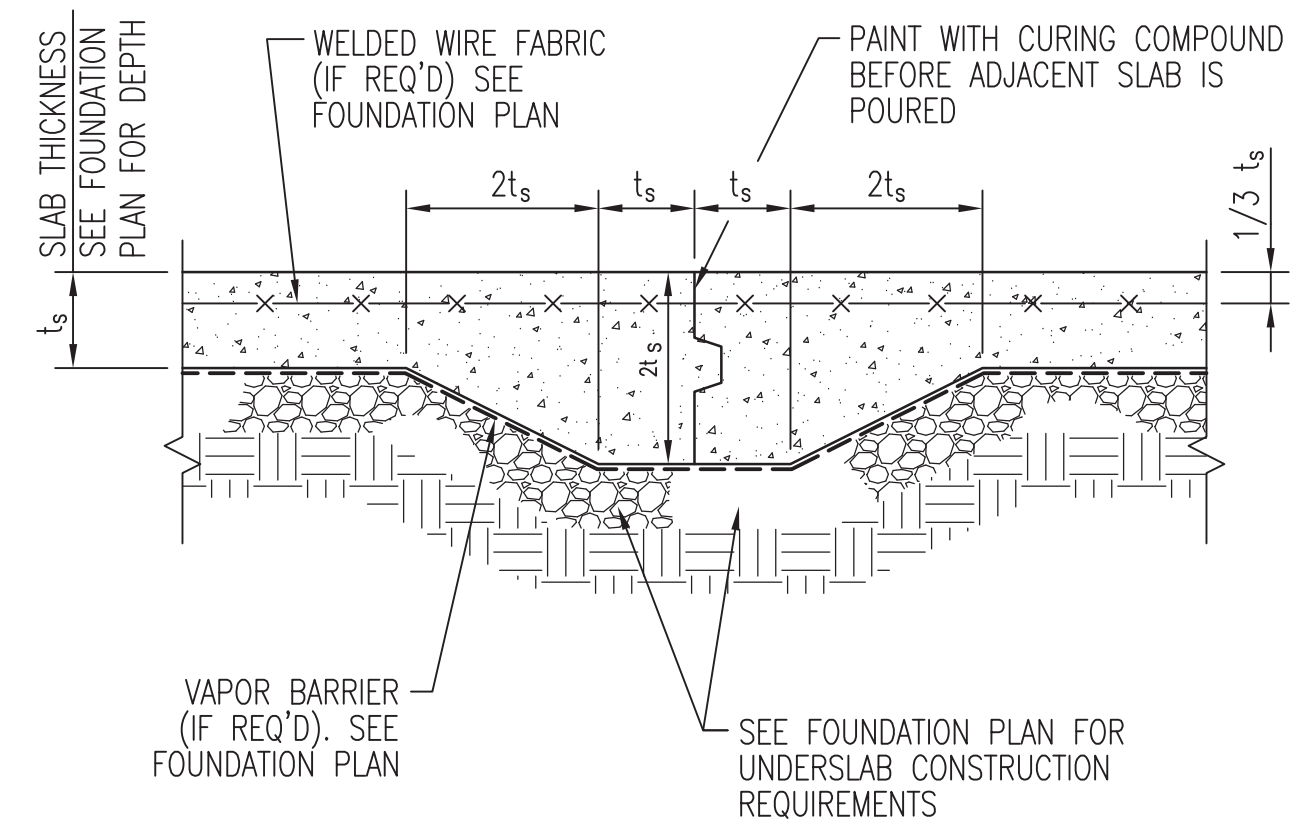
S0104.A



GENERAL NOTE:
1. FILL SAWCUT WITH JOINT FILLER 120 DAYS (MINIMUM) AFTER CUTTING (SEE SPECS).

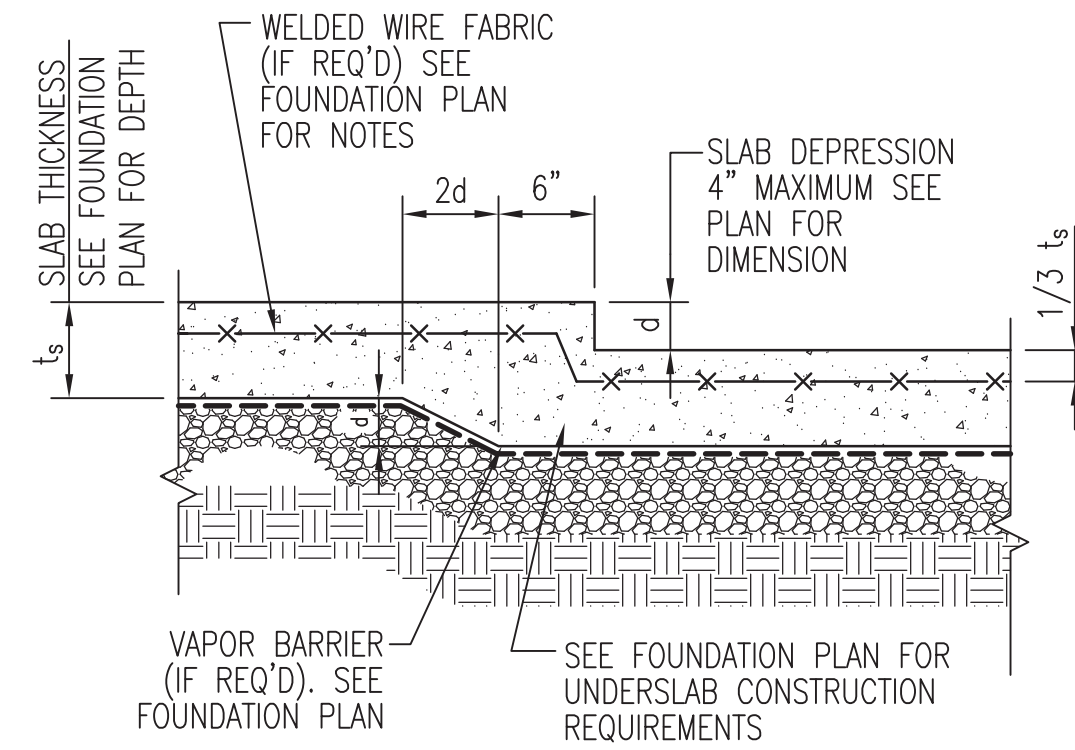
TYPICAL CONTROL JOINT DETAIL

SCALE: N.T.S.



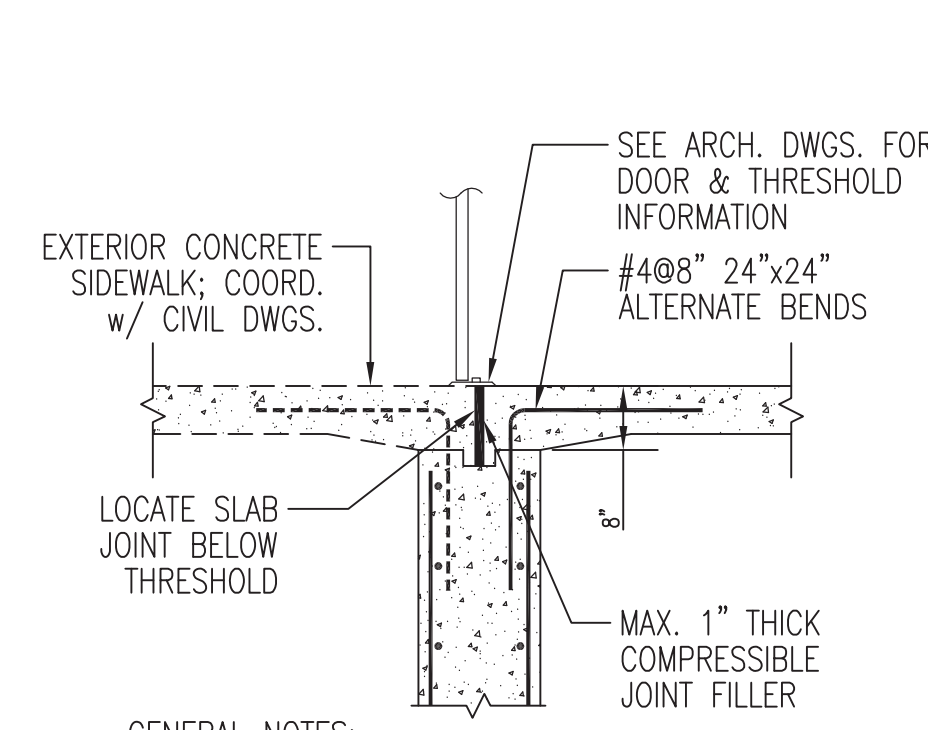
TYPICAL CONSTRUCTION JOINT DETAIL

SCALE: N.T.S.



TYPICAL SLAB DEPRESSION DETAIL

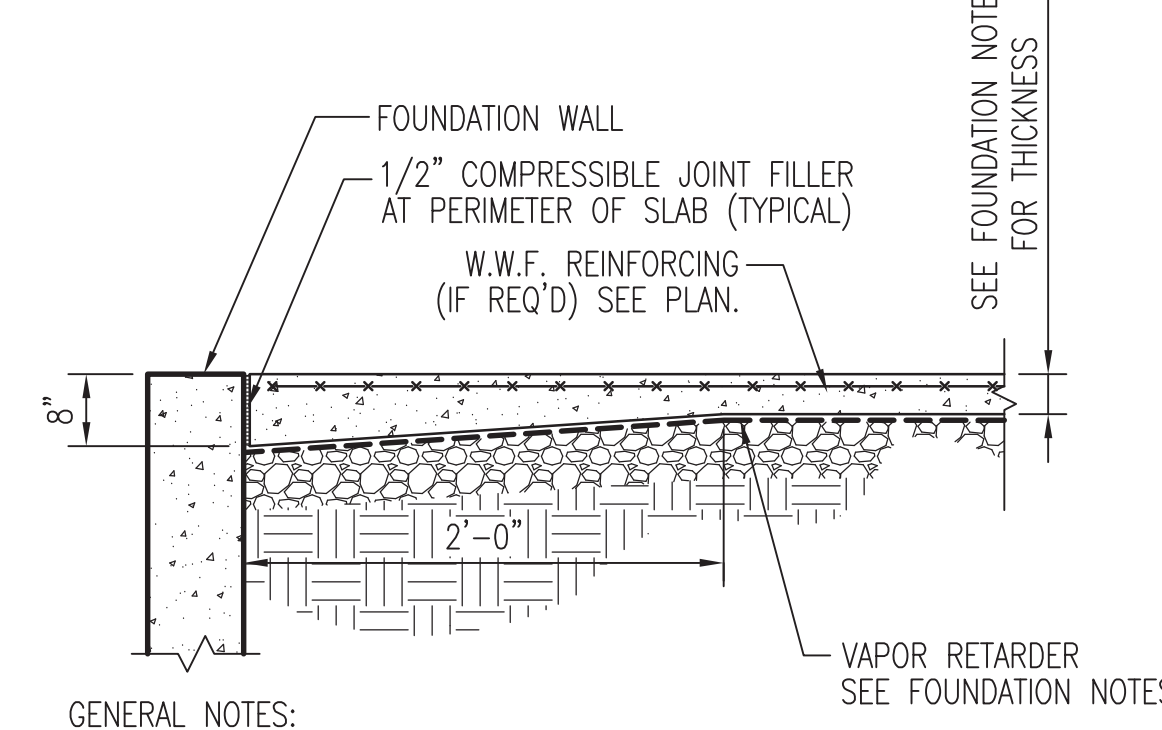
SCALE: N.T.S.



GENERAL NOTES:
1. SEE PLANS AND NOTES FOR SLAB CONSTRUCTION.
2. COORDINATE WITH SECTIONS FOR REQ'D FOUNDATION WALL THICKNESS AND REINFORCING.

TYPICAL SLAB DETAIL AT DOOR

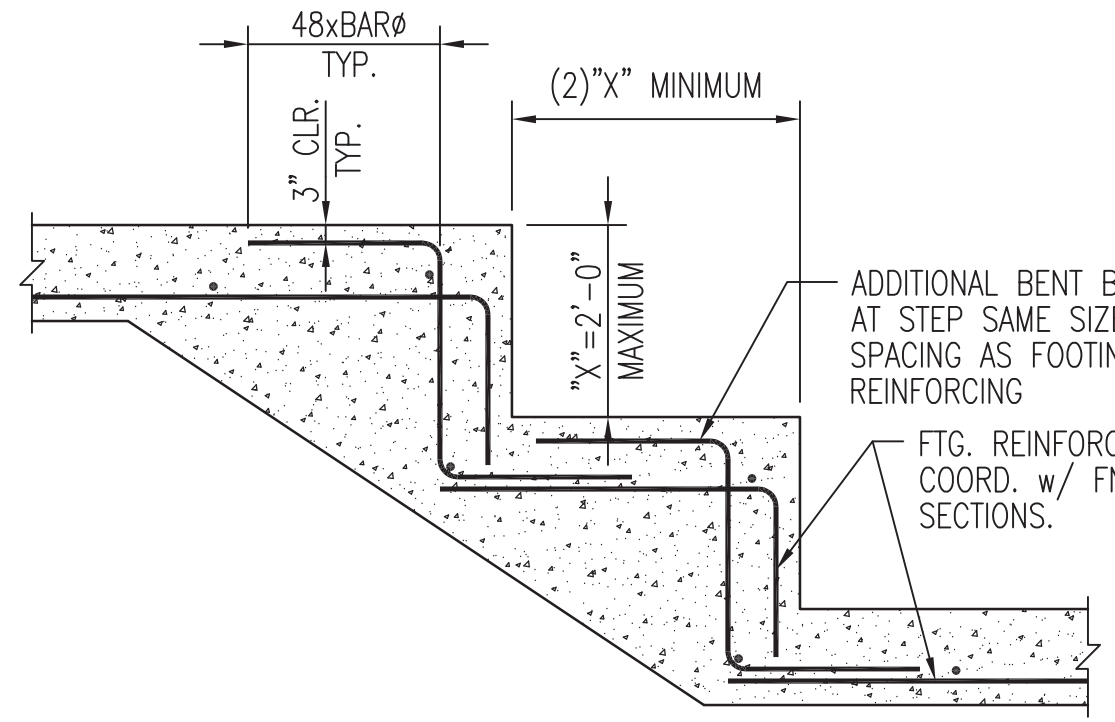
SCALE: N.T.S.



GENERAL NOTES:
1. SEE FOUNDATION NOTES FOR SLAB CONSTRUCTION AND UNDERSLAB CONSTRUCTION REQUIREMENTS.
2. COORDINATE WITH PLAN FOR FOUNDATION WALL DESIGN & REINFORCING.

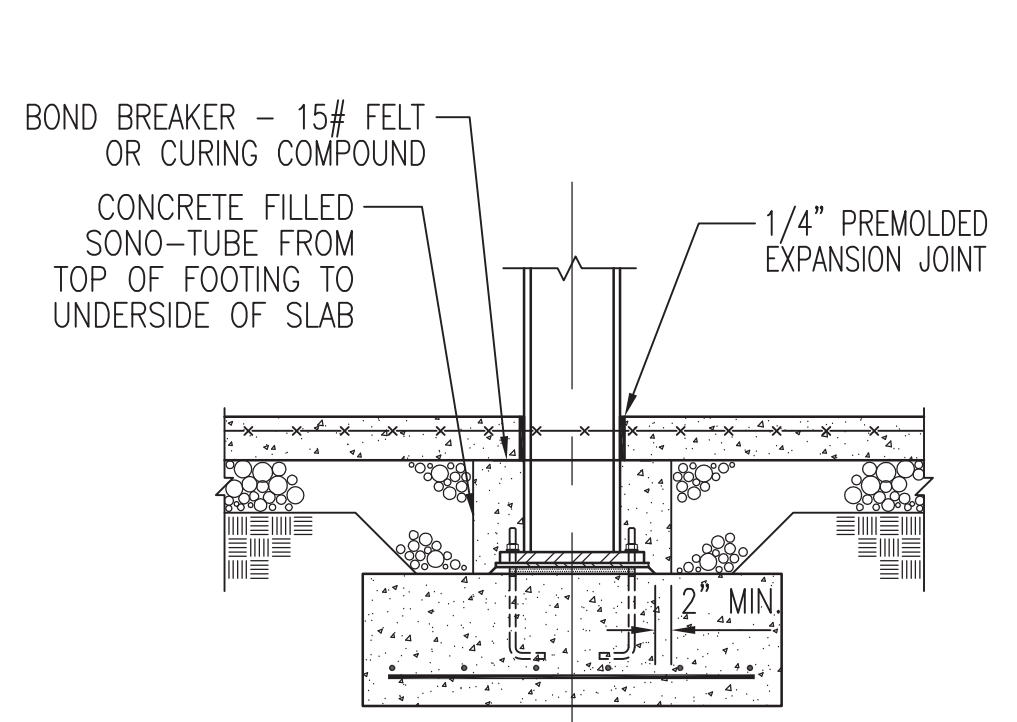
TYPICAL THICKENED SLAB EDGE DETAIL

SCALE: N.T.S.



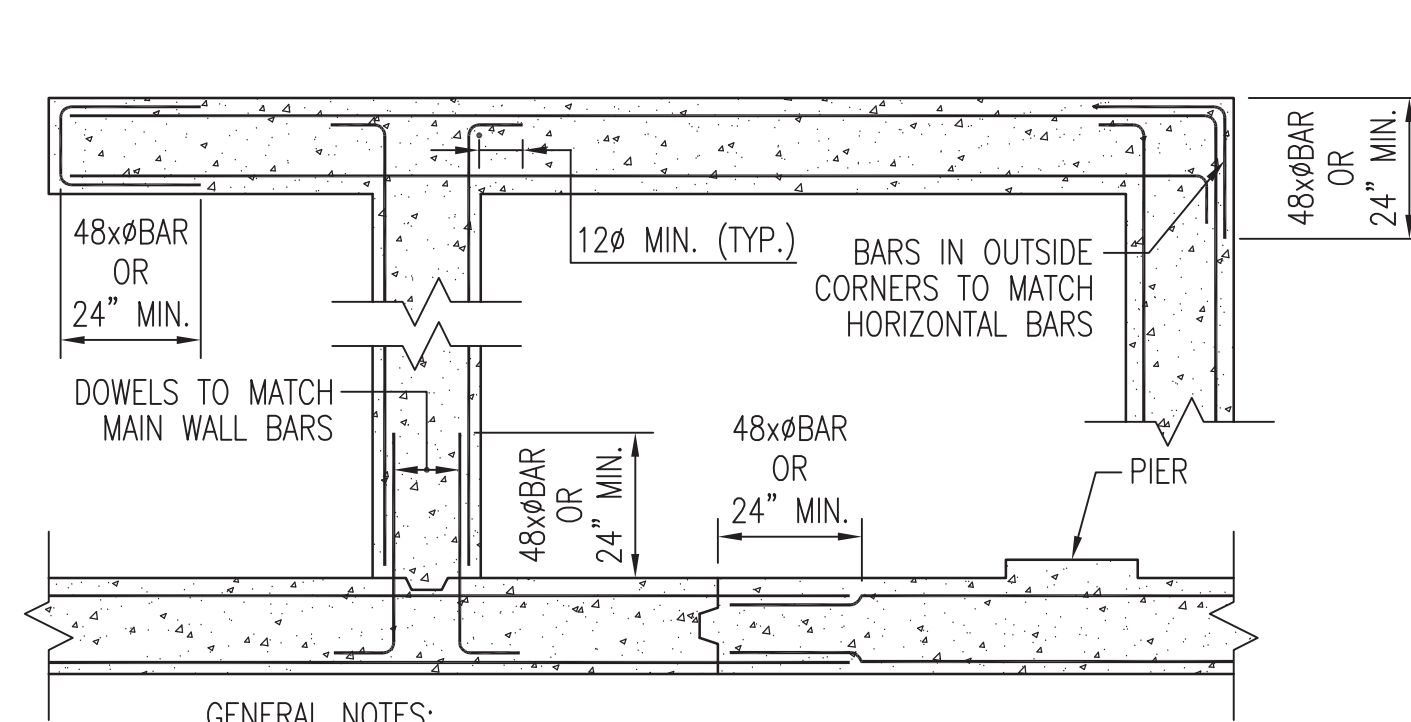
TYPICAL STEPPED FOOTING DETAIL

SCALE: N.T.S.



TYPICAL COLUMN BASE ON FOOTING

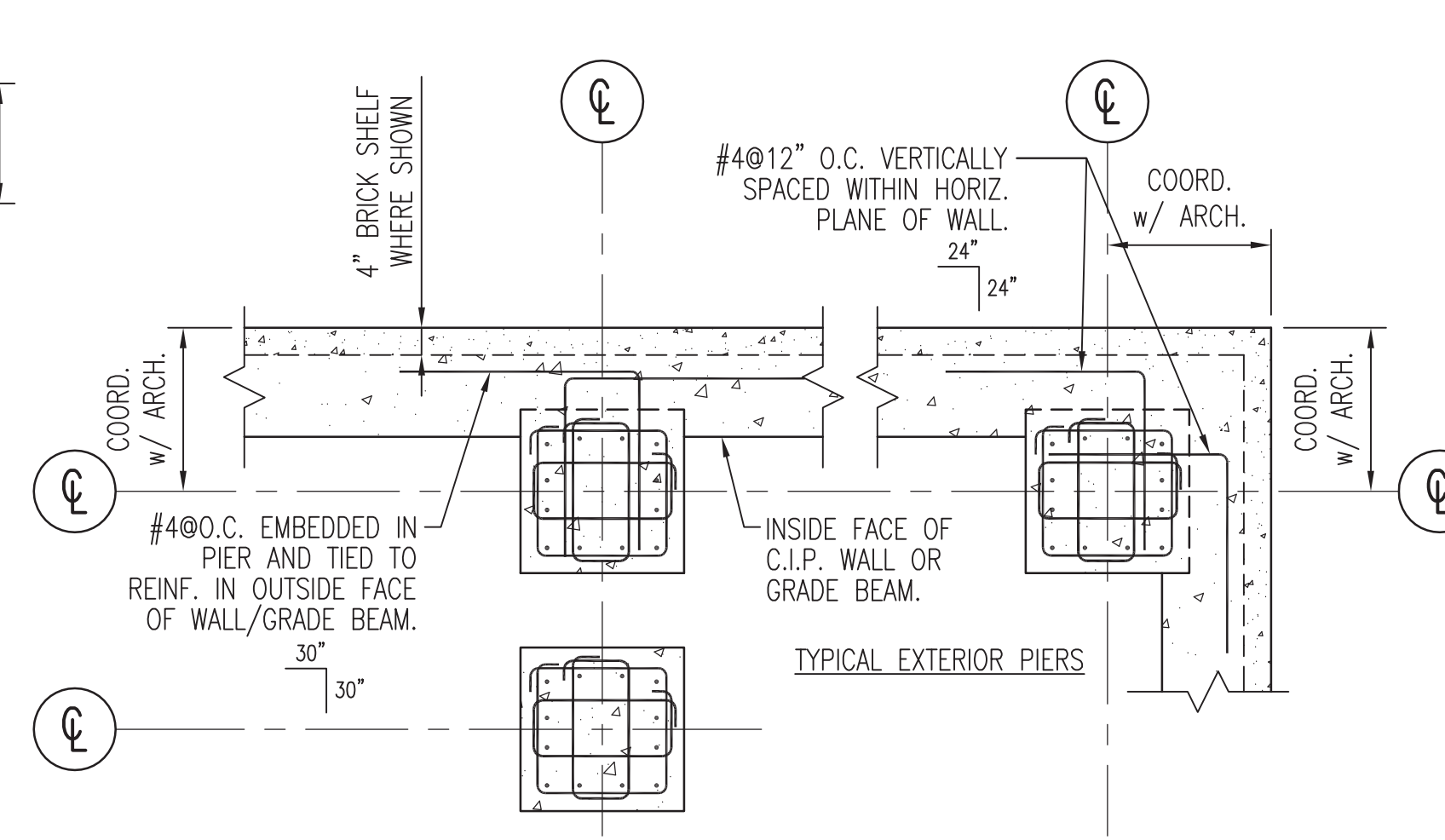
SCALE: N.T.S.



GENERAL NOTES:
1. WALL SHAPES AS SHOWN ARE FOR BAR PLACEMENT ONLY. EXACT WALL SHAPES AS SHOWN MAY NOT APPEAR ON PROJECT.
2. REFER TO ACI-318 FOR CONCRETE COVER REQUIREMENTS.
3. REFER TO WALL SCHEDULE OR SECTIONS FOR REINFORCING.
4. "48x8 BAR OR 24" MIN." INDICATES THE MINIMUM REQUIRED LAP LENGTH (WHICHEVER IS GREATER).

TYPICAL WALL INTERSECTION SCHEMATIC

SCALE: N.T.S.

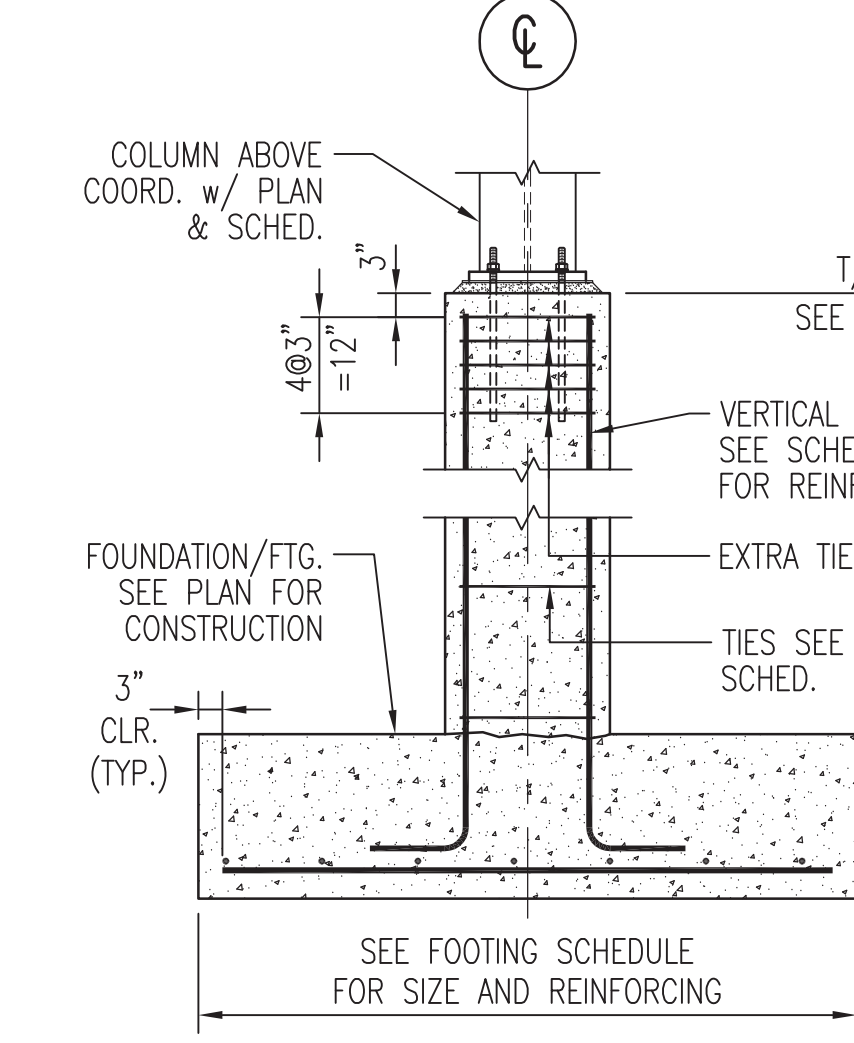


TYPICAL INTERIOR PIERS

GENERAL NOTES:
1. SEE PLAN NOTES AND SCHEDULES FOR PIER SIZE AND REINFORCING.
2. REFER TO ACI-318 FOR CONCRETE COVER REQUIREMENTS.
3. REFER TO WALL SCHEDULE OR SECTIONS FOR REINFORCING IN WALLS.

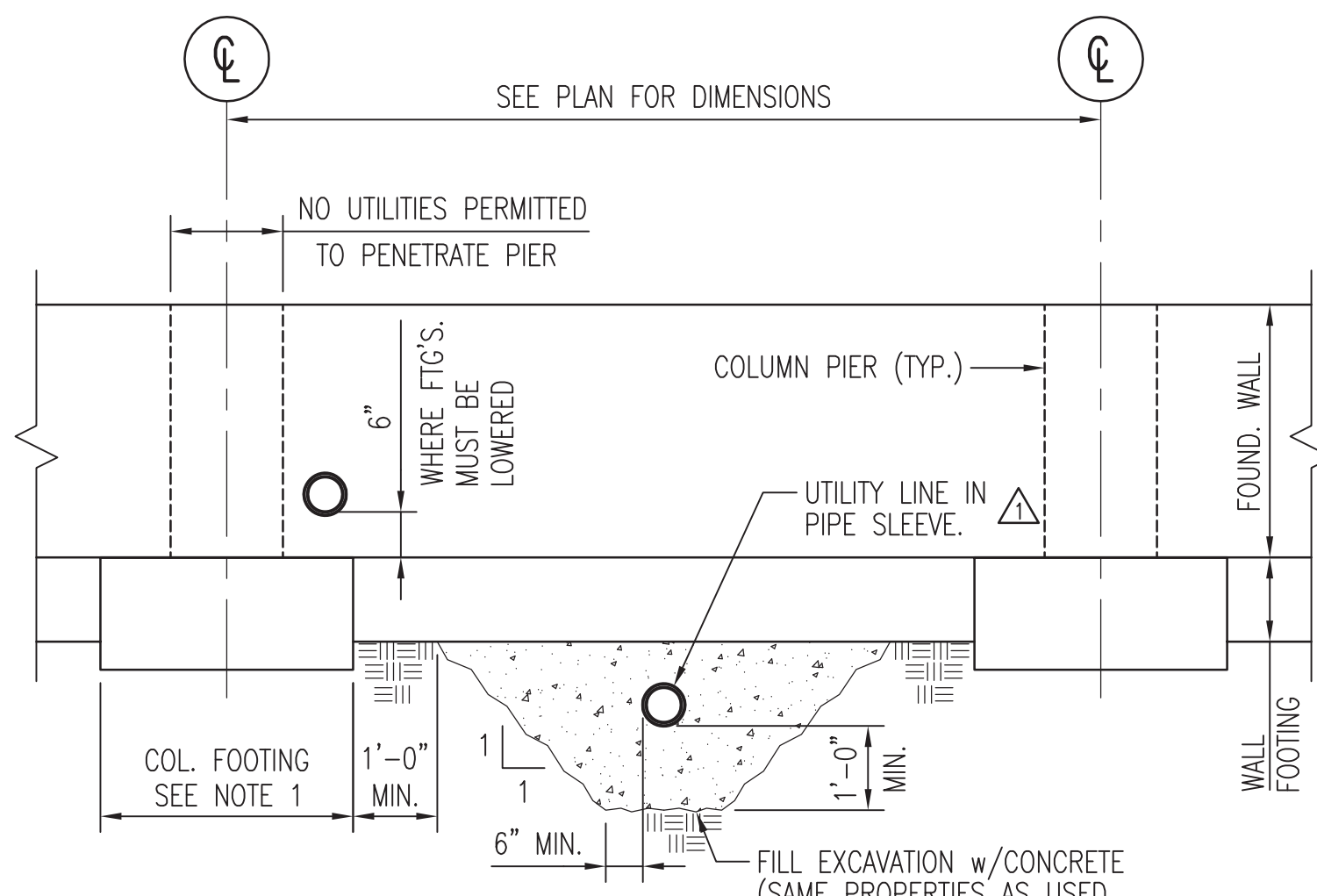
TYPICAL PIER DETAILS

SCALE: N.T.S.



TYPICAL PIER AND FOOTING DETAIL

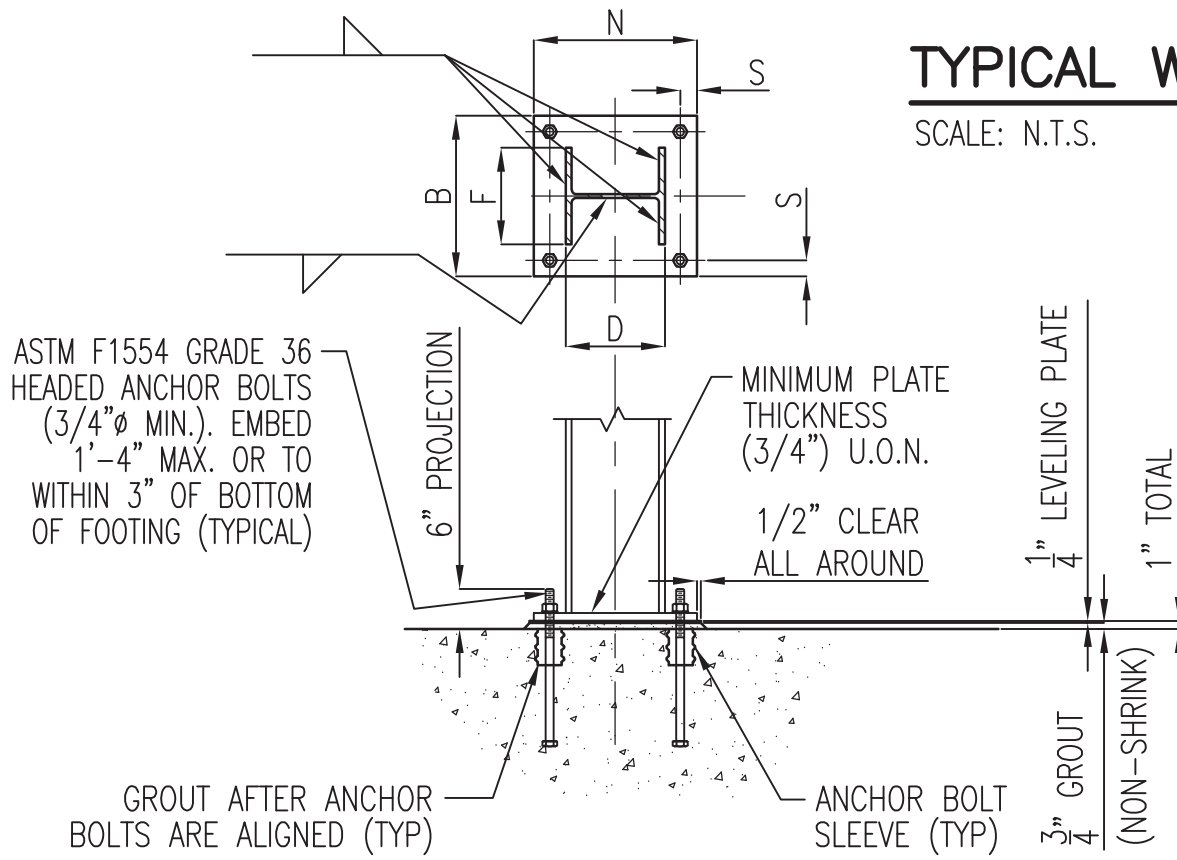
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GENERAL NOTES:
1. NO UTILITIES SHALL BE PERMITTED BELOW COLUMN FOOTING. SHOULD UTILITIES NEED TO BE LOCATED IN THE VICINITY OF COLUMN FOOTING, THE FOOTING SHALL BE LOWERED IN ELEVATION (SEE TYPICAL STEPPED FOOTING DETAIL). IF LOWERING OF FOOTING IS NOT POSSIBLE, CONSULT A/E FOR FURTHER DIRECTION.
2. COORDINATE WITH PLANS AND SECTIONS FOR REQUIRED WALL, FOOTING AND PIER CONSTRUCTION.

TYPICAL DETAIL - UTILITY LINE BELOW WALL FOOTING

SCALE: N.T.S.

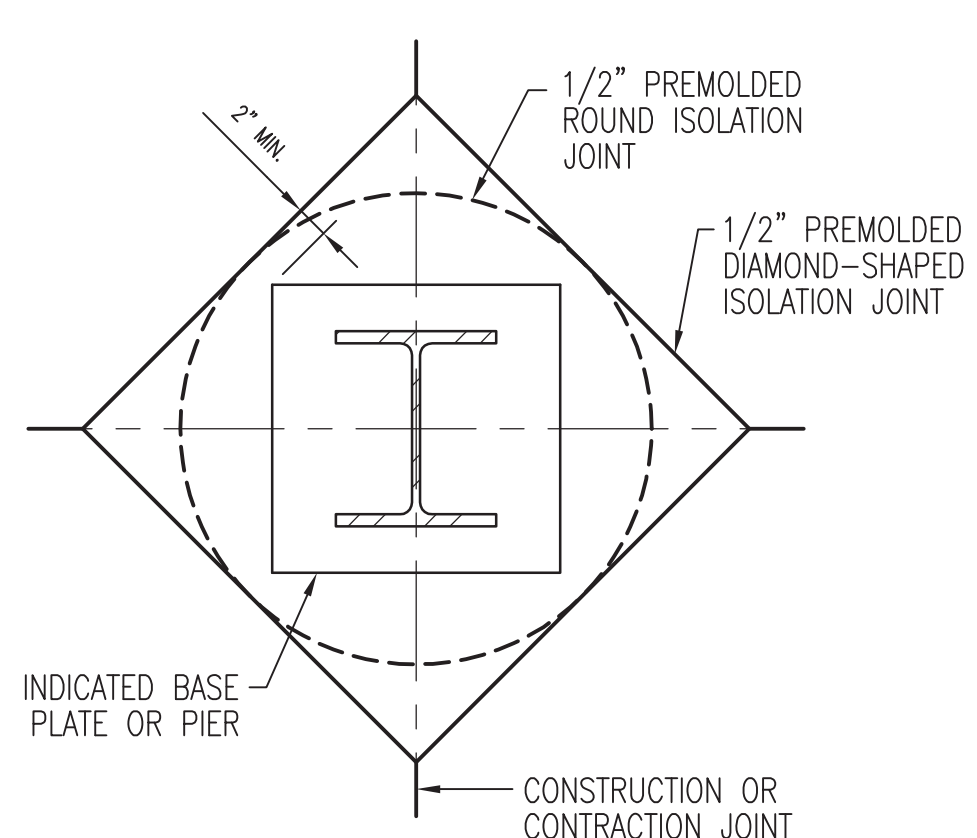


CONDITION (SEE ABOVE)	N (in)	B (in)	S (in)
(4) HOLE BASEPLATE	D+6"	F+6"	1 1/2"

GENERAL NOTES:
1. DETAIL APPLIES UNLESS OTHERWISE NOTED ON PLANS OR COLUMN SCHEDULE.
2. WELDS INDICATED ARE MINIMUM REQUIRED. VERIFY THROAT THICKNESS OF WELD PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

TYPICAL BASEPLATE DETAILS

SCALE: N.T.S.



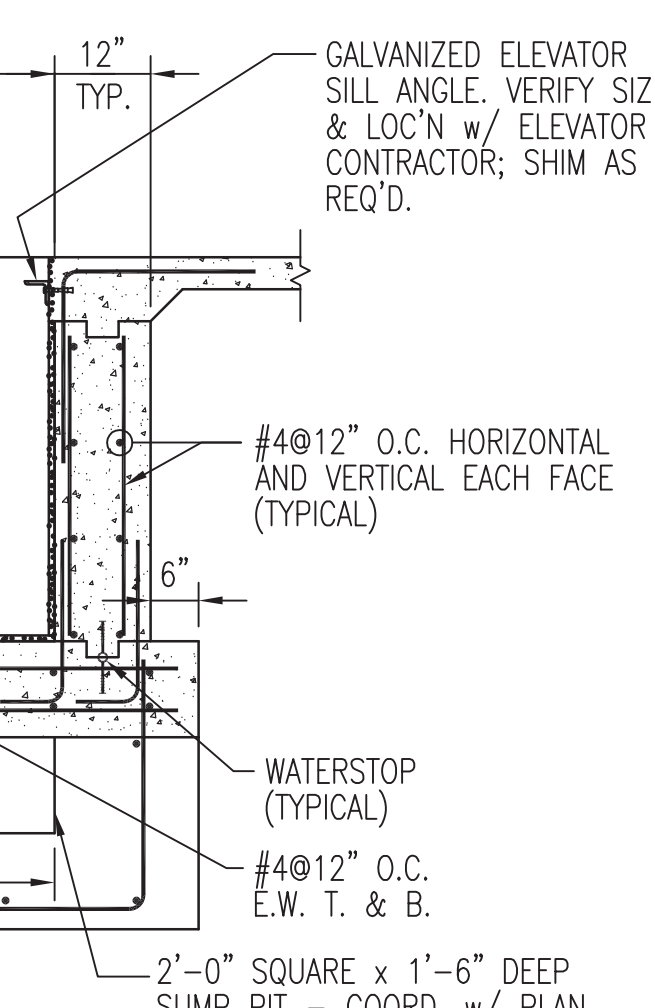
GENERAL NOTES:
1. CONTRACTOR HAS OPTION OF USING ROUND OR DIAMOND SHAPED ISOLATION JOINT.
2. USE HALF-CIRCLE OR HALF-DIAMOND AT EXTERIOR WALLS.
3. PROTECT FROM STORM WATER BEFORE FILLING.

TYPICAL COLUMN ISOLATION JOINT

SCALE: N.T.S.

PLAN DETAIL - VERTICAL CONSTRUCTION JOINT IN CONCRETE WALL

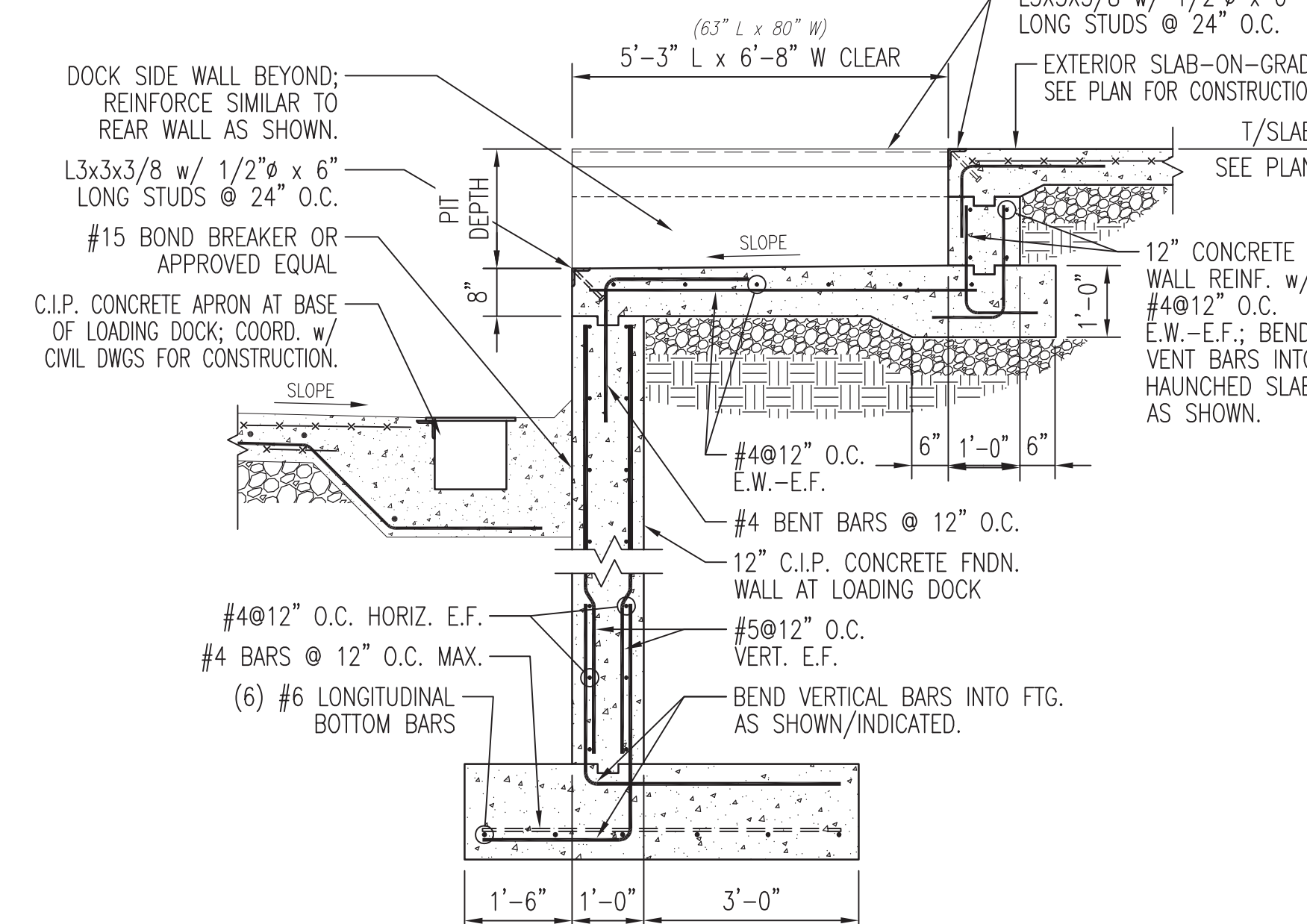
SCALE: N.T.S.



GENERAL NOTES:
1. VERIFY ALL DIMENSIONS AND CONDITIONS w/ ELEVATOR MANUFACTURER.
2. REFER TO SPECIFICATIONS FOR WATERSTOP.
3. REFER TO SPECIFICATIONS FOR WATERPROOFING.
4. DEPENDING ON TYPE OF WATERPROOFING - FINISH DIMENSIONS MAY VARY FOR CONCRETE WALL.

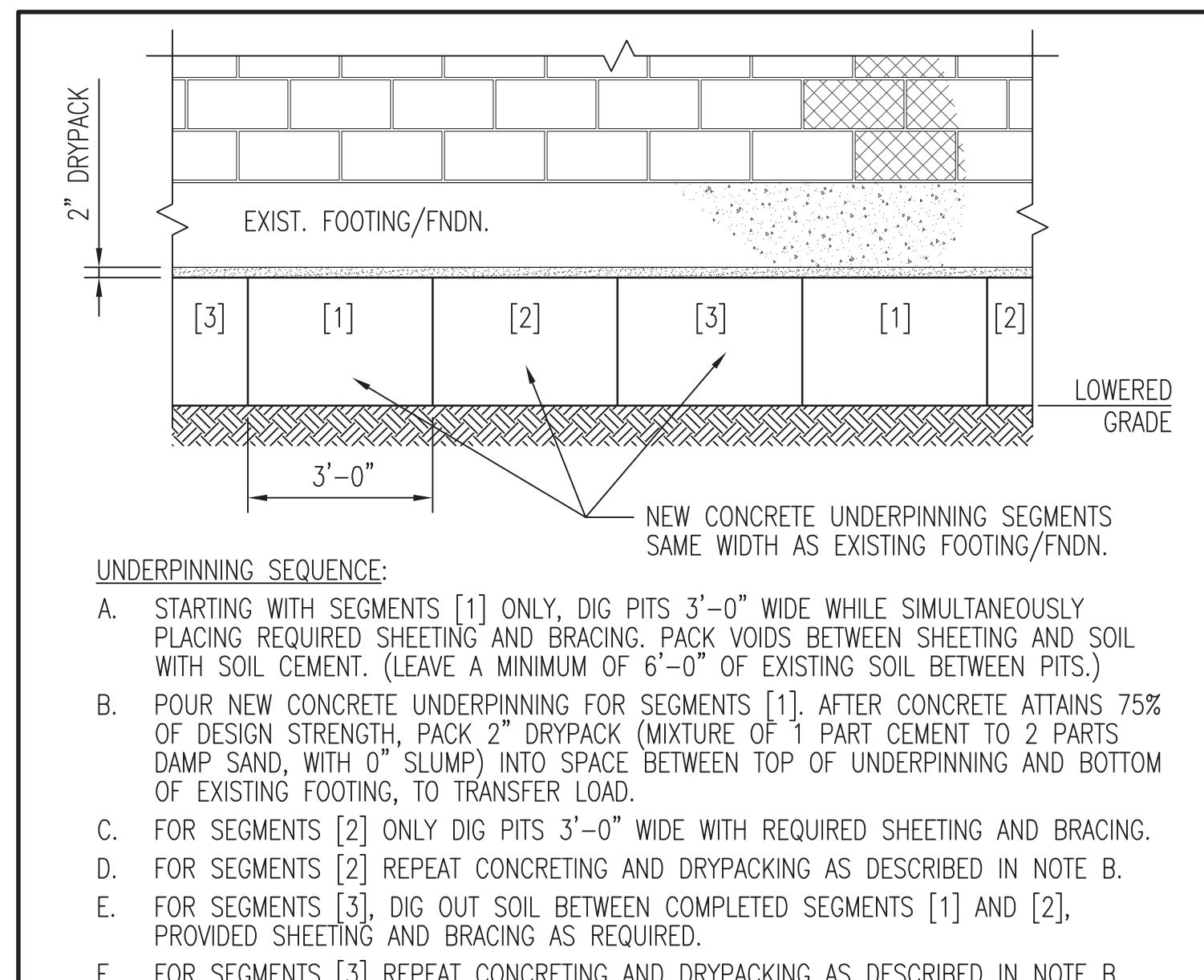
TYPICAL ELEVATOR PIT DETAIL

SCALE: N.T.S.



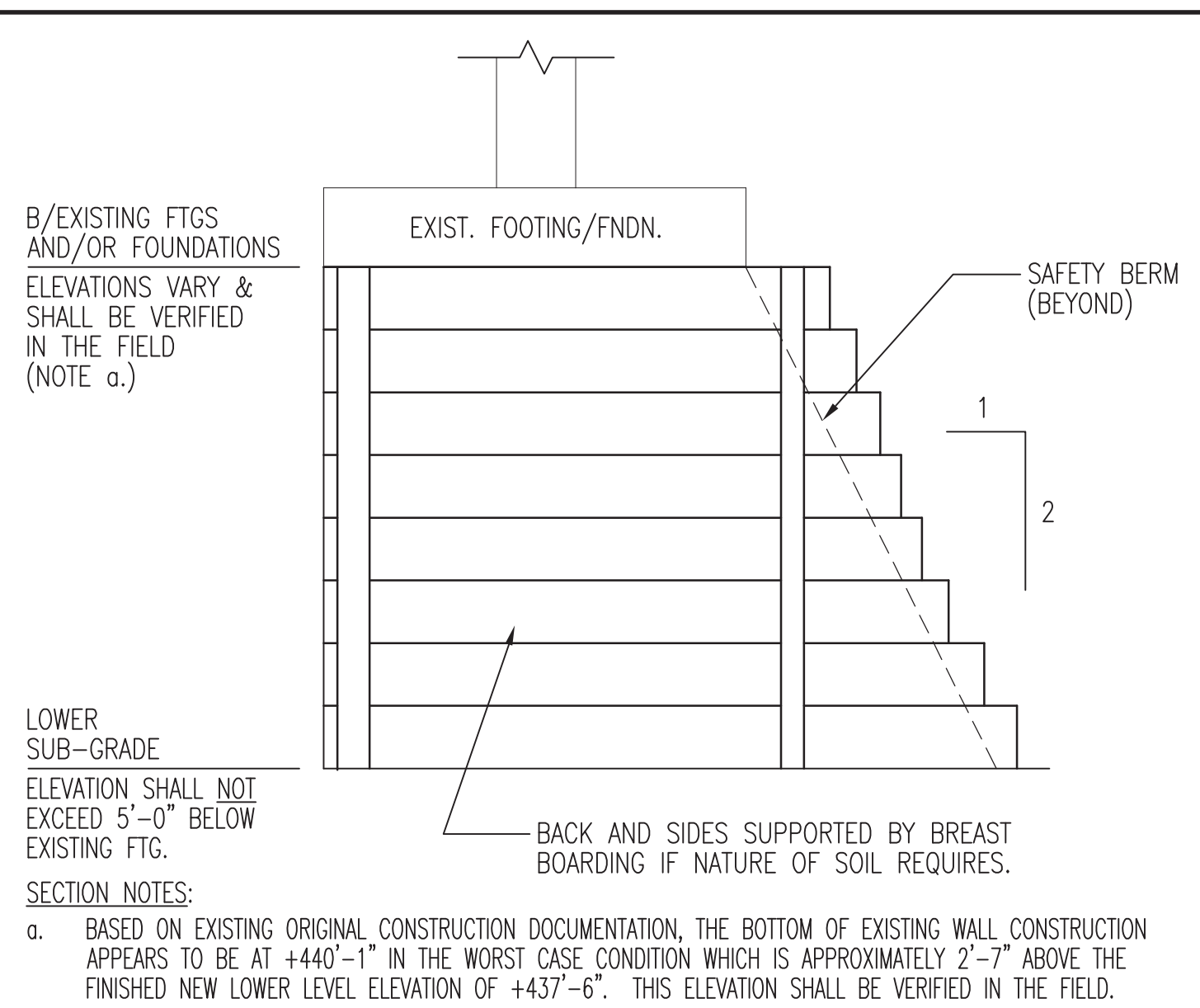
TYPICAL DOCK LEVELER SECTION AT 12" FNDN. WALL

SCALE: N.T.S.



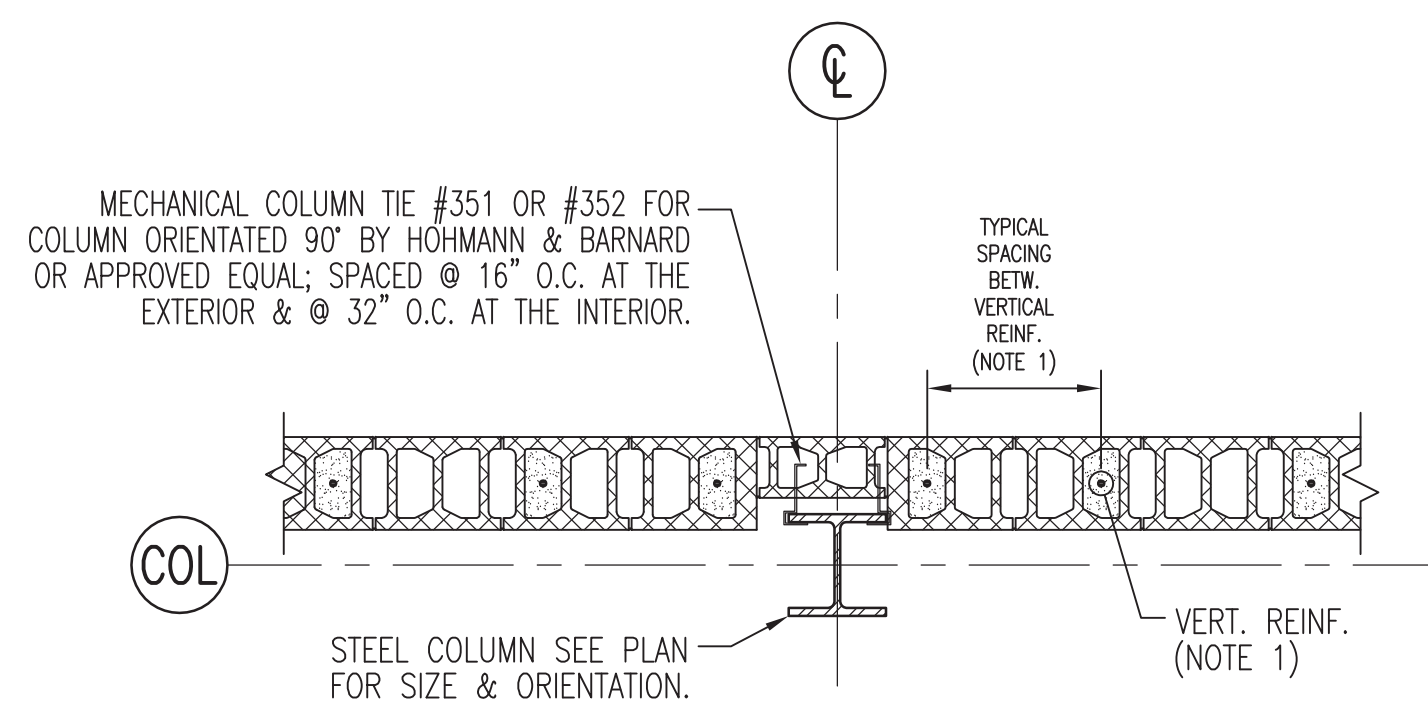
TYPICAL UNDERPINNING ELEVATION

GENERAL NOTES:
1. PERFORM EXPLORATORY TEST PITS TO DETERMINE THE AS-BUILT CONDITIONS OF THE EXISTING FOUNDATIONS (DUMONT HALL AND MOREHEAD HALL) PRIOR TO EXCAVATING BELOW THE ADJACENT BUILDINGS LOWEST FLOORS. SUBMIT TEST PIT FINDINGS TO THE STRUCTURAL ENGINEER FOR REVIEW.
2. THE UNDERPINNING DETAILS (ELEVATION AND SECTION) SHOWN HEREIN IS FOR ILLUSTRATION PURPOSES FOR SHALLOW PIERS (LESS THAN 5 FEET IN HEIGHT). UPON COMPLETION OF THE EXPLORATORY TEST PITS, SUBMIT DETAILED UNDERPINNING SHOP/DESIGN DRAWINGS ALONG WITH CALCULATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW.
3. EXCAVATED SUB-GRADE SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY BEARING CAPACITY.
4. TEMPORARY SHEETING AND BRACING TO REMAIN SHALL BE TREATED TO PREVENT DECOMPOSITION.

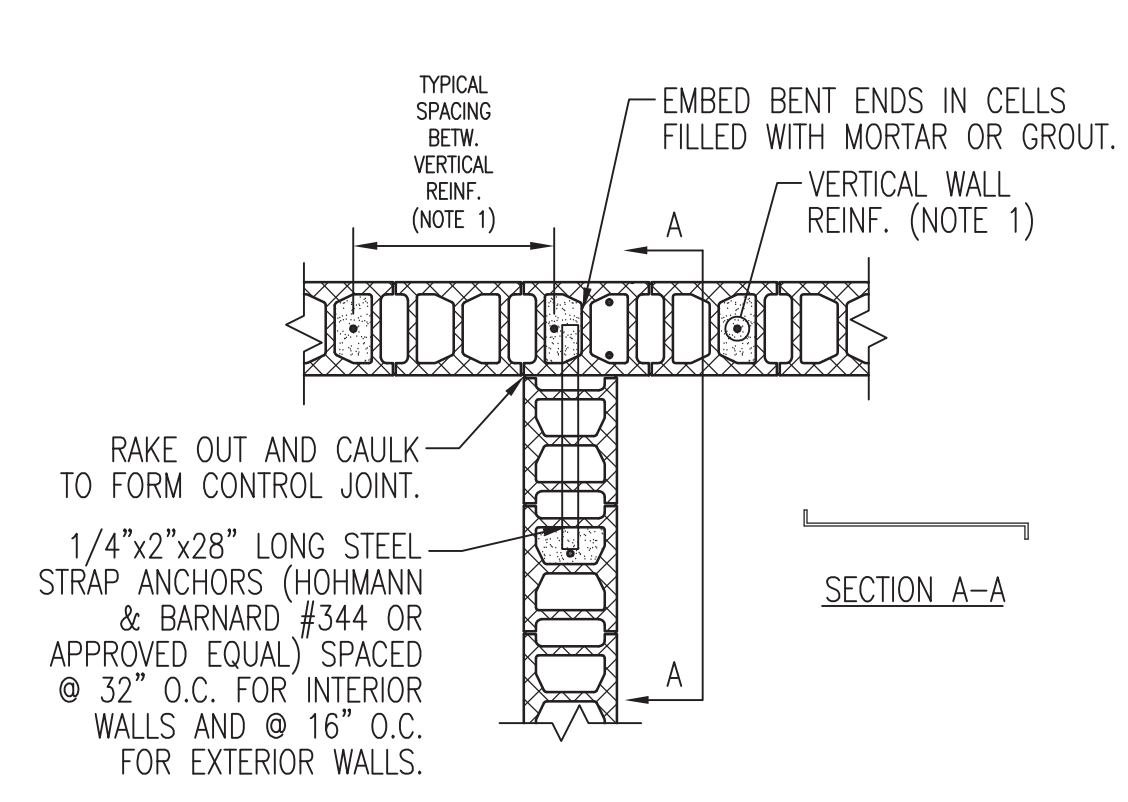


TYPICAL UNDERPINNING SECTION

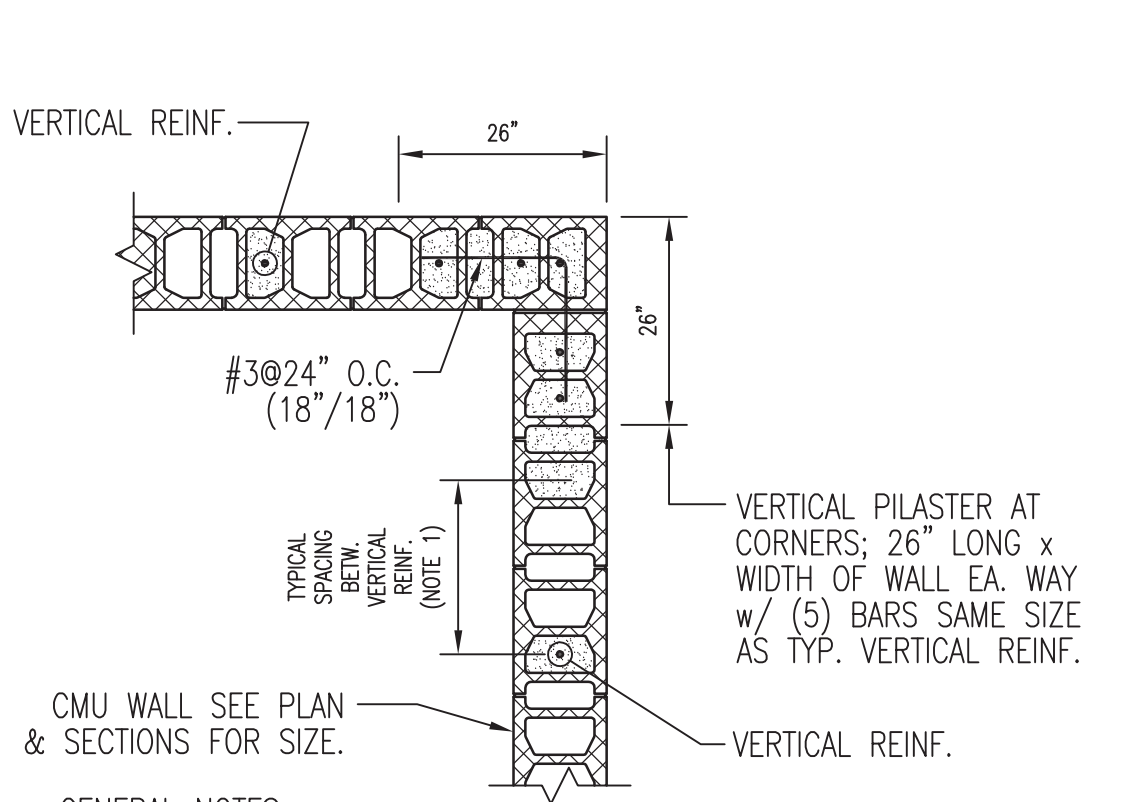
UNDERPINNING SEQUENCE:
A. STARTING WITH SEGMENTS [1] ONLY, DIG PITS 3'-0" WIDE WHILE SIMULTANEOUSLY PLACING REQUIRED SHEETING AND BRACING. PACK VOIDS BETWEEN SHEETING AND SOIL WITH SOIL CEMENT. (LEAVE A MINIMUM OF 6'-0" OF EXISTING SOIL BETWEEN PITS).
B. POUR NEW CONCRETE UNDERPINNING FOR SEGMENTS [1]. AFTER CONCRETE ATTAINS 75% OF DESIGN STRENGTH, PACK 2" DRYPACK (MIXTURE OF 1 PART CEMENT TO 2 PARTS DAMP SAND, WITH 0" SLUMP) INTO SPACE BETWEEN TOP OF UNDERPINNING AND BOTTOM OF EXISTING FOOTING, TO TRANSFER LOAD.
C. FOR SEGMENTS [2] ONLY DIG PITS 3'-0" WIDE WITH REQUIRED SHEETING AND BRACING.
D. FOR SEGMENTS [2] REPEAT CONCRETING AND DRYPACKING AS DESCRIBED IN NOTE B.
E. FOR SEGMENTS [3], DIG OUT SOIL BETWEEN COMPLETED SEGMENTS [1] AND [2], PROVIDED SHEETING AND BRACING AS REQUIRED.
F. FOR SEGMENTS [3] REPEAT CONCRETING AND DRYPACKING AS DESCRIBED IN NOTE B.



TYPICAL MASONRY WALL TO STEEL COLUMN INTERFACE/INTERSECTION
SCALE: N.T.S.

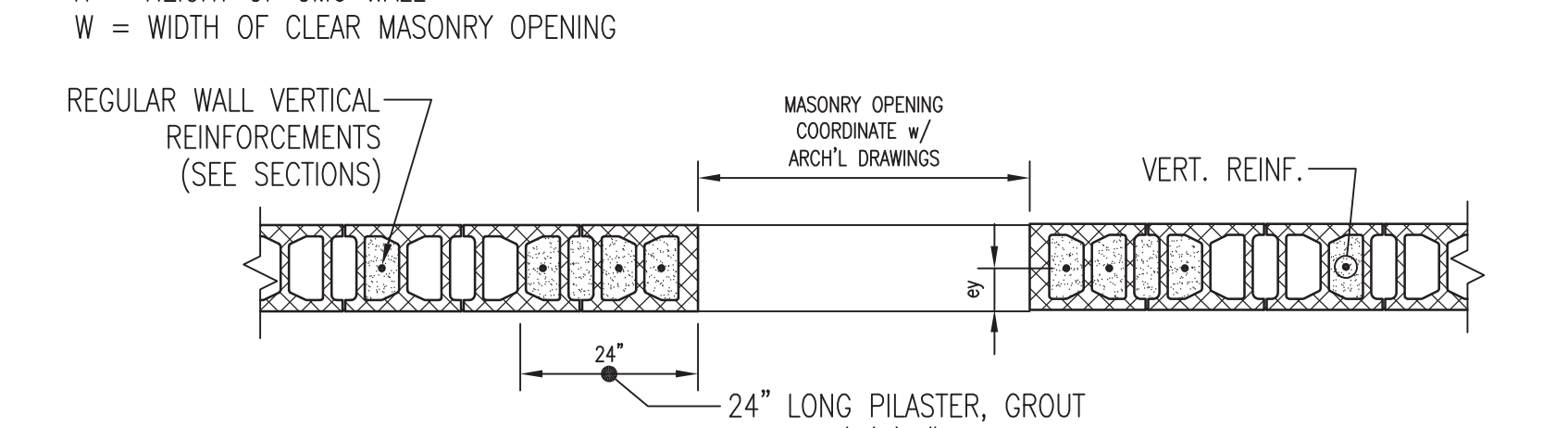


TYPICAL CMU WALL INTERSECTION
SCALE: N.T.S.

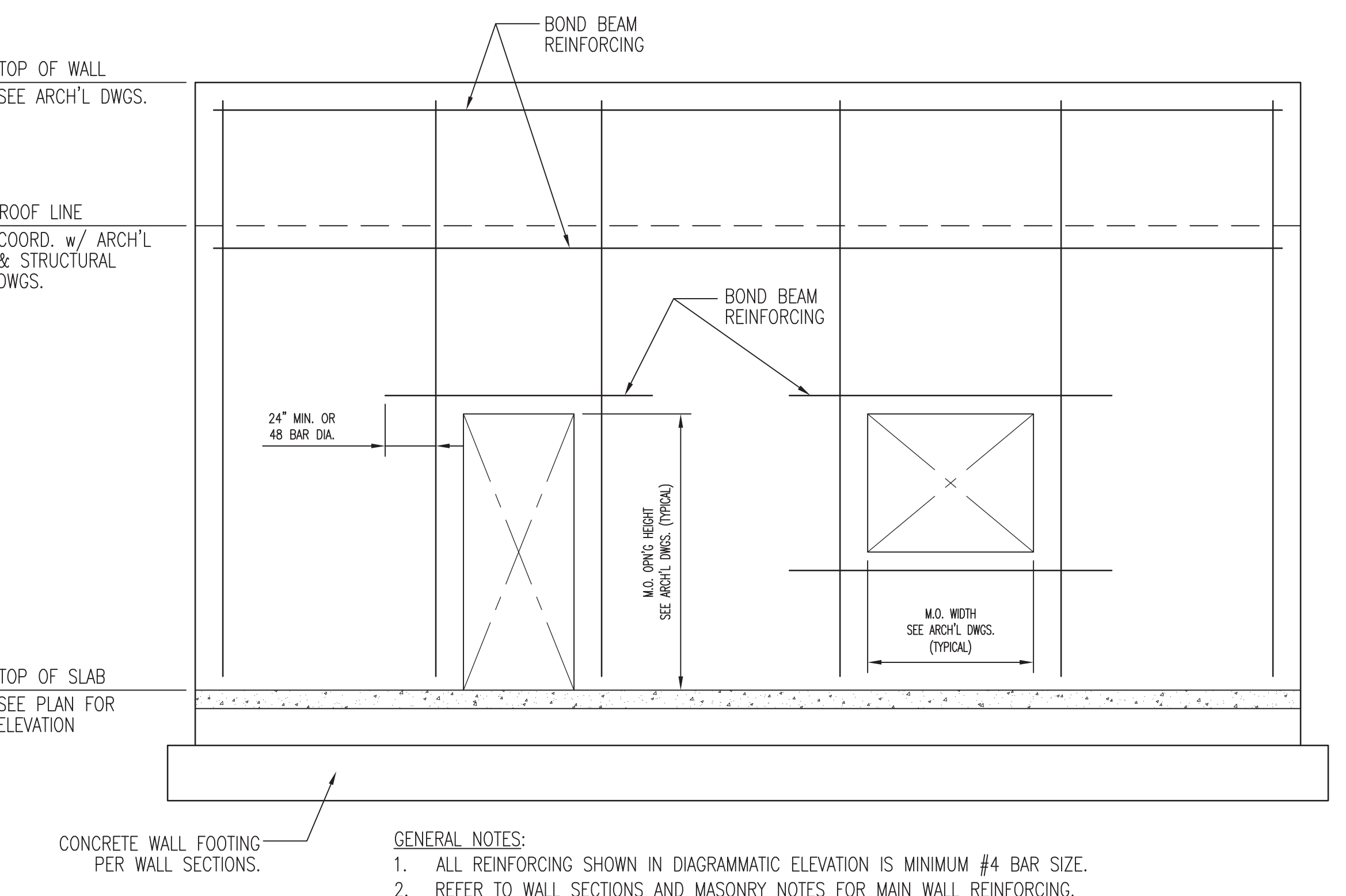


TYPICAL WALL CORNER CONDITION
SCALE: N.T.S.

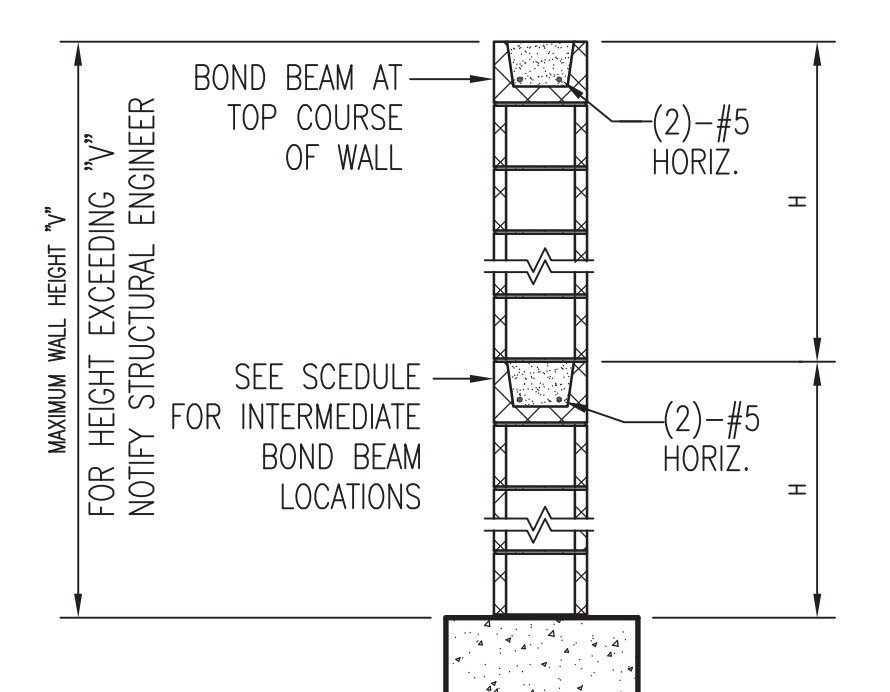
8" MASONRY WALL						
H/W	UP TO 10'-0"	UP TO 11'-4"	UP TO 12'-8"	UP TO 14'-0"	UP TO 15'-4"	OVER 15'-4"
UP TO 4'-0"	(2) #5	(2) #5	(2) #5	(2) #5	(3) #5	CONSULT ENGINEER (NOTE 4)
OVER 4'-0" TO 6'-0"	(2) #5	(2) #5	(2) #5	(3) #5	(3) #5	
OVER 6'-0" TO 8'-0"	(2) #5	(2) #5	(3) #5	(3) #5	(4) #5	



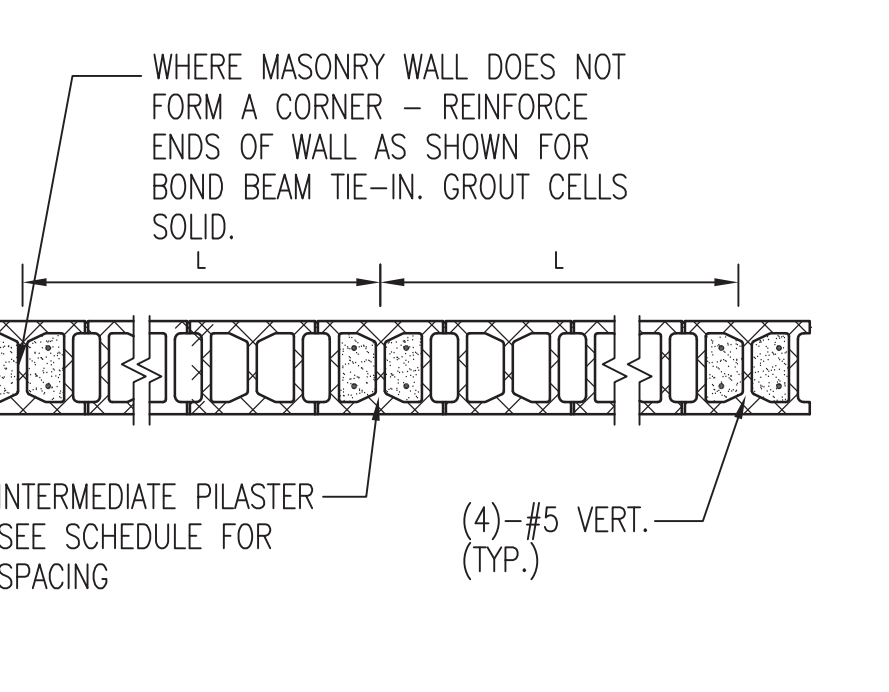
TYPICAL PILASTER AT WALL OPENING
SCALE: N.T.S.



ADDITIONAL REINFORCING REQUIREMENTS AT OPENINGS IN CMU/MASONRY WALLS
SCALE: N.T.S.

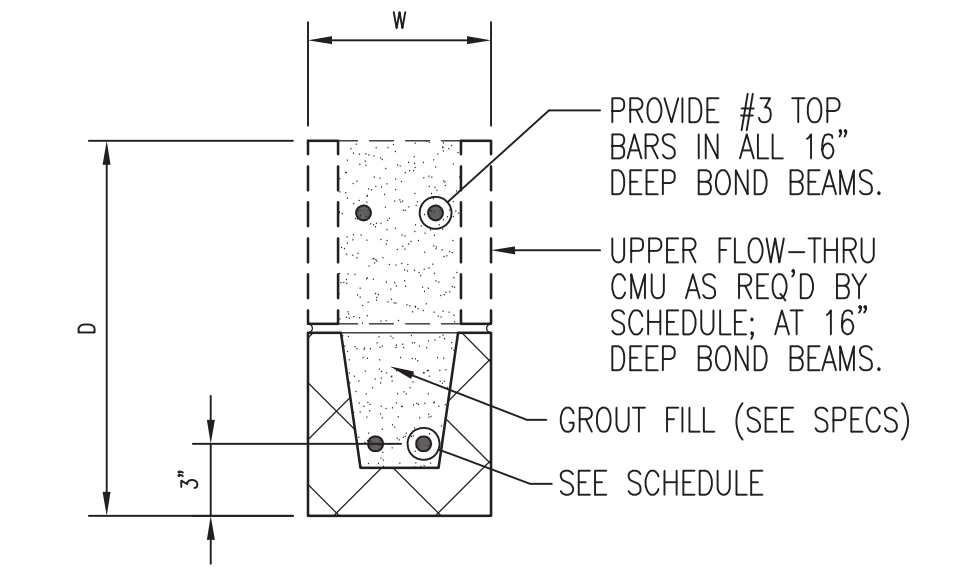


BOND BEAM SPACING		
WALL	MAX. SPACING "H"	"V"
8" EXTERIOR WALL	11'-4"	18'-0"
12" EXTERIOR WALL	17'-4"	26'-0"
8" INTERIOR WALL	22'-8"	22'-8"
12" INTERIOR WALL	34'-8"	34'-8"



PILASTER SPACING	
WALL	MAX. SPACING "L"
8" EXTERIOR WALL	12'-8"
12" EXTERIOR WALL	18'-0"
8" INTERIOR WALL	20'-0"
12" INTERIOR WALL	28'-8"

TYPICAL MASONRY WALL REINFORCING
SCALE: N.T.S.

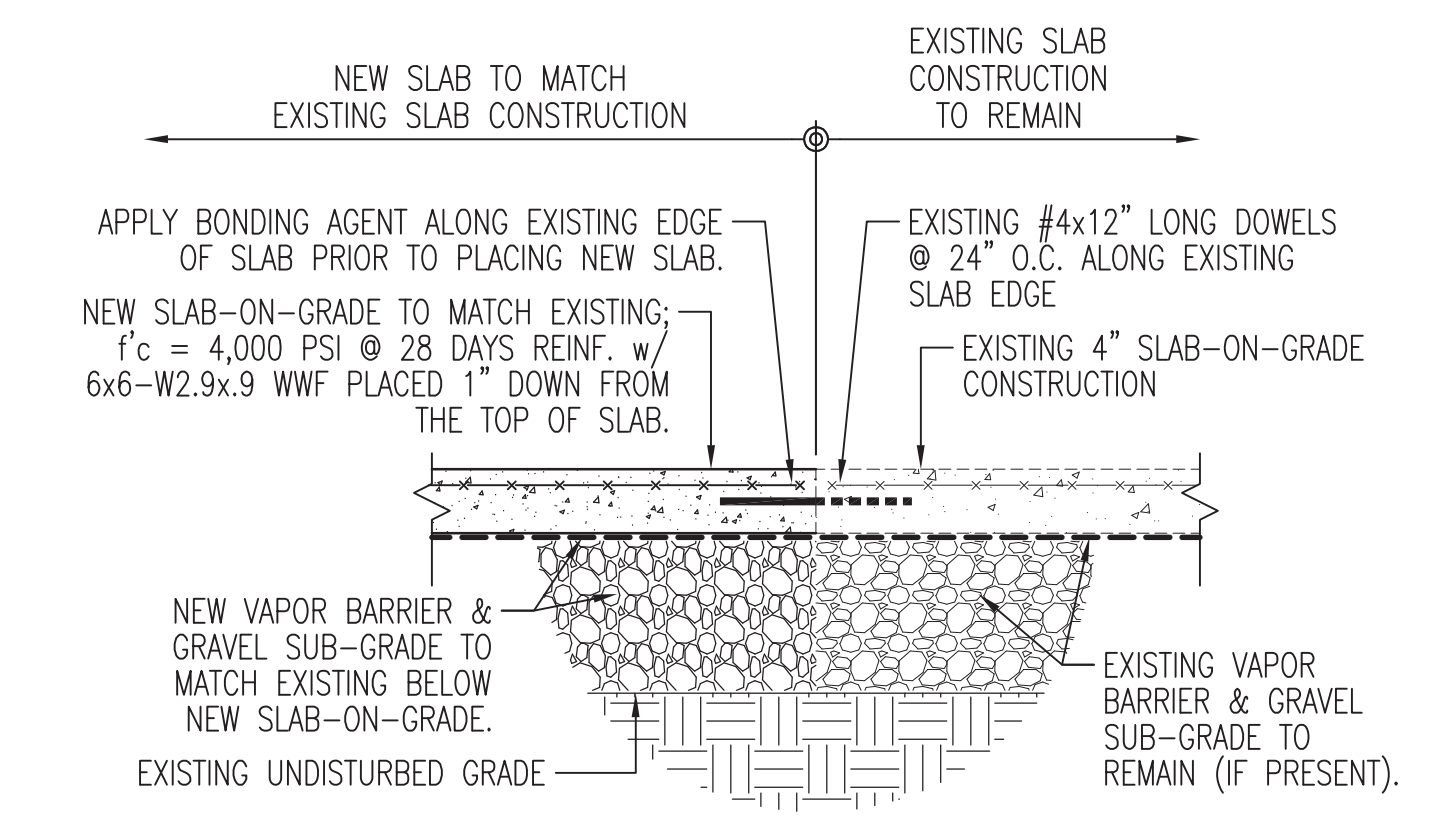


LINTEL REINFORCING SCHEDULE		
CLEAR OPENING	LINTEL (WxD)	REINFORCING
0'-0" TO 3'-4"	6"x8"	(1) #3
	6"x16"	----
	8"x8"	(2) #3
3'-4" TO 7'-4"	6"x8"	----
	6"x16"	(1) #4
	8"x16"	(2) #5

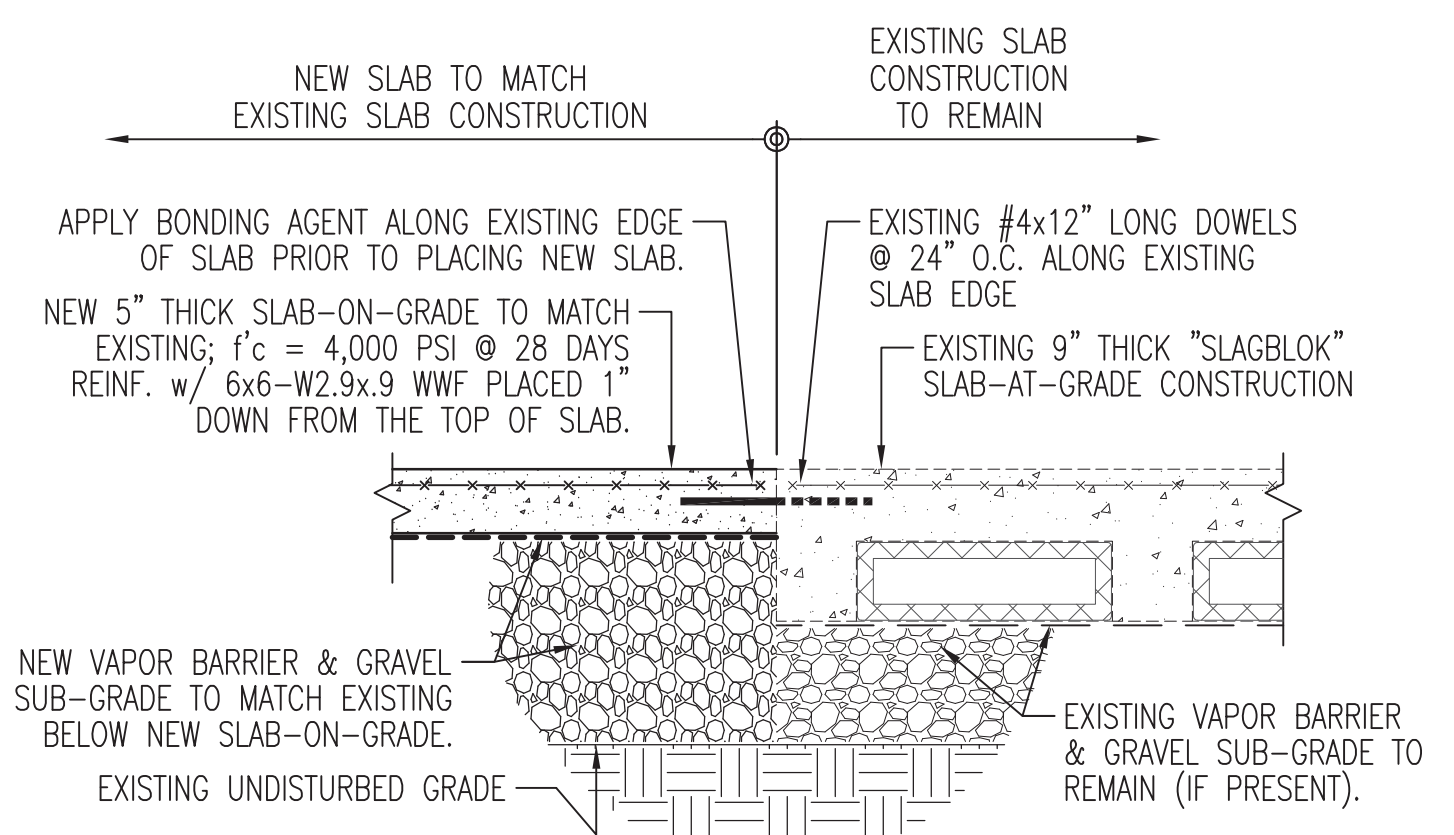
TYPICAL U-BLOCK LINTEL SCHEDULE
SCALE: N.T.S.

STEEL ANGLE LOOSE LINTEL SCHEDULE	
CLEAR OPENING	ANGLE SIZE
UP TO 4'-0"	L3-1/2 x 3-1/2 x 1/4
OVER 4'-0" - 5'-0"	L4 x 3-1/2 x 1/4
OVER 5'-0" - 6'-0"	L4 x 3-1/2 x 5/16
OVER 6'-0" - 8'-0"	L6 x 3-1/2 x 5/16

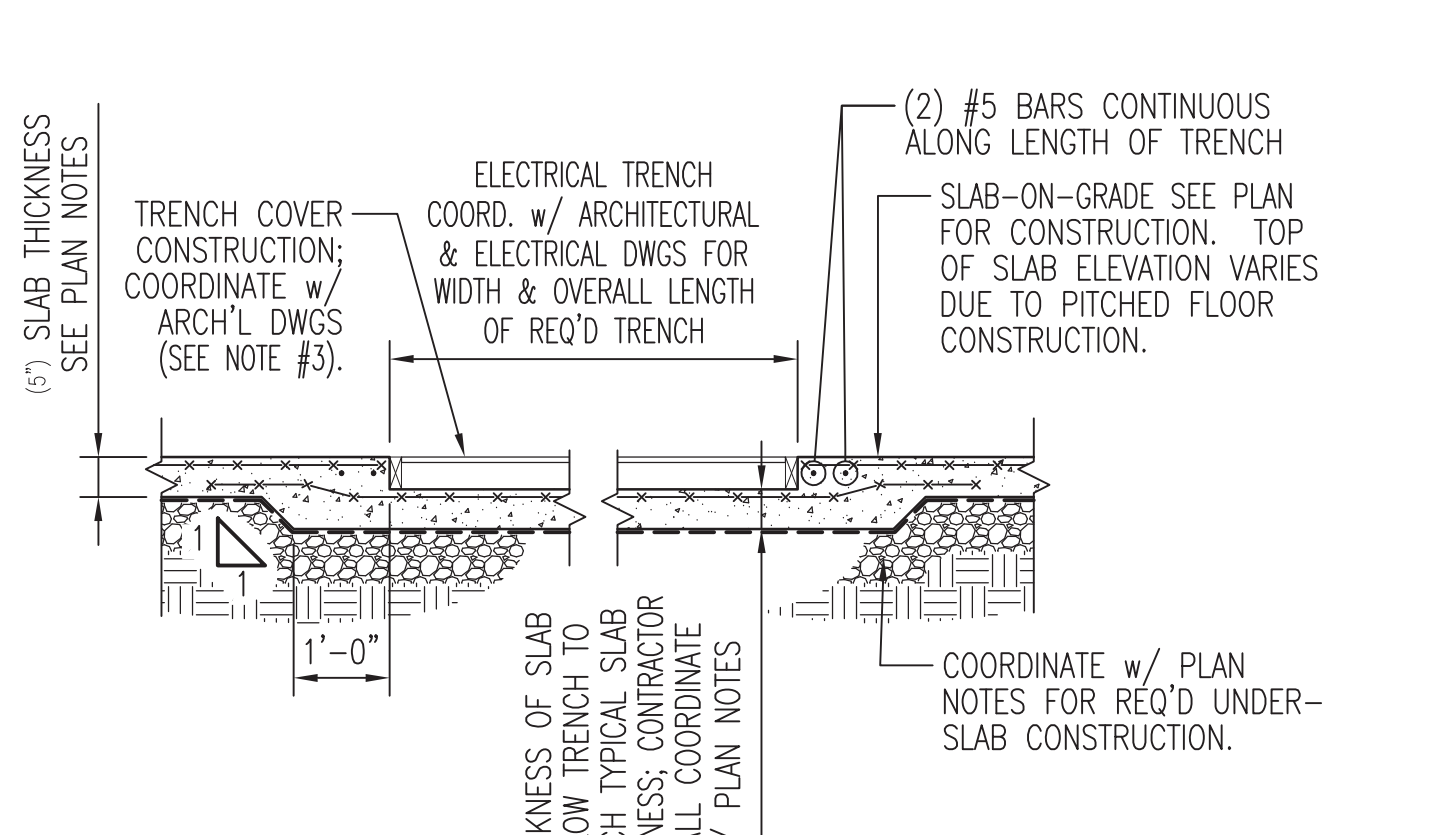
NON-LOAD BEARING CMU/MASONRY LOOSE STEEL ANGLE LINTEL SCHEDULE
SCALE: N.T.S.



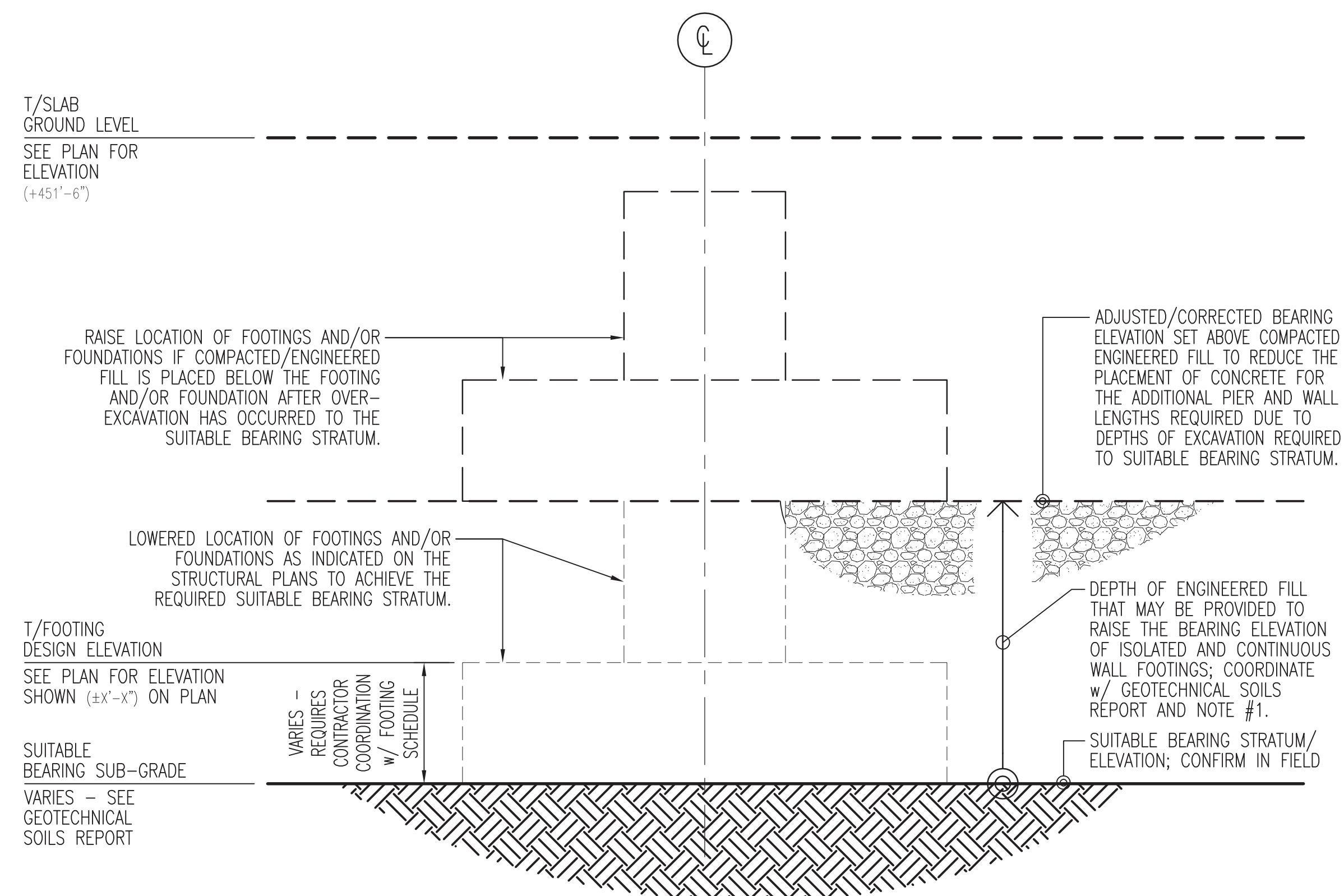
NEW-TO-EXISTING SLAB-ON-GRADE TRANSITION DETAIL
SCALE: N.T.S.



NEW-TO-EXISTING TRANSITION DETAIL AT EXISTING 'SLAGBLOK' FLOOR CONSTRUCTION
SCALE: N.T.S.



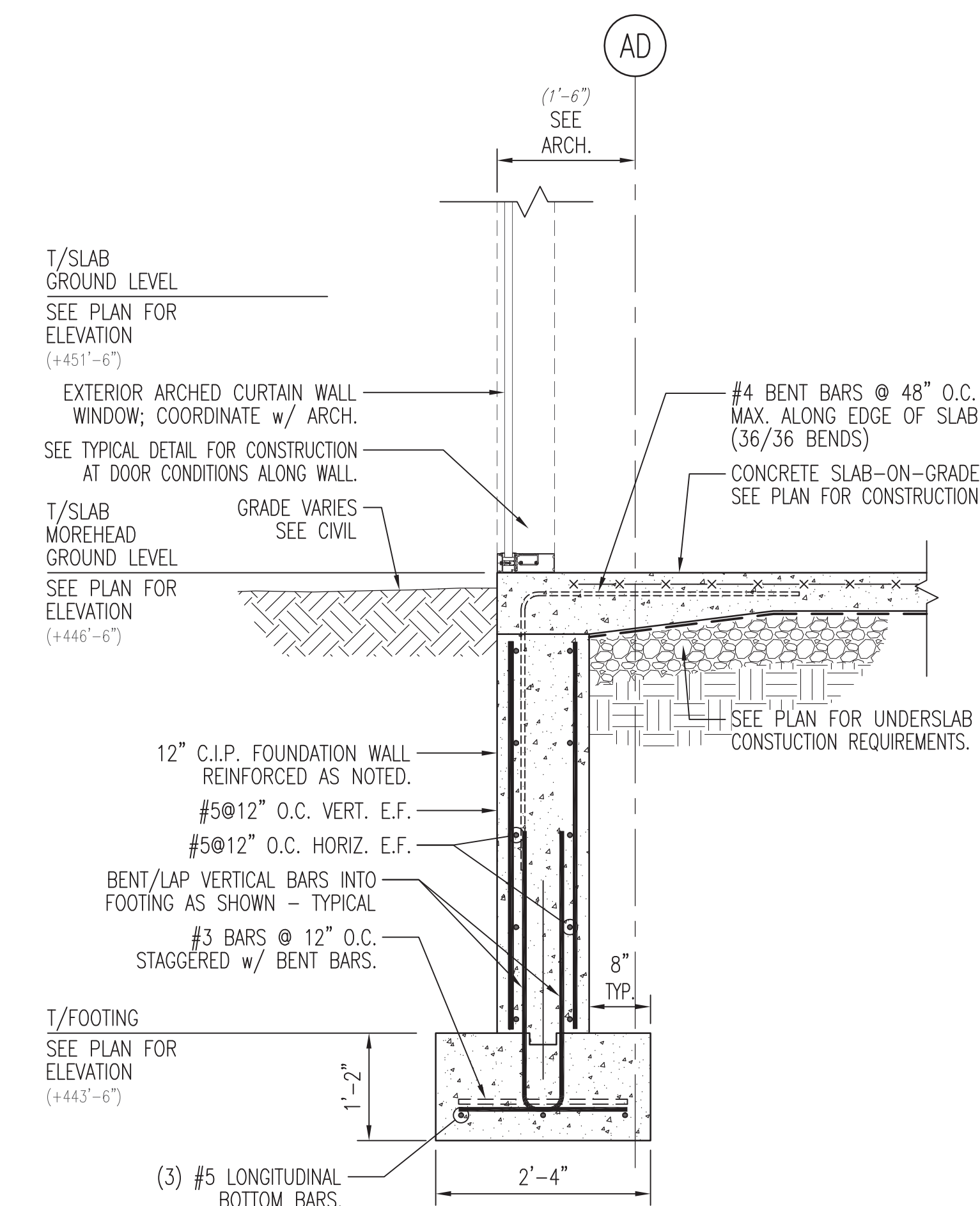
TYPICAL SECTION/DETAIL AT PRESENTATION HALL ELECTRICAL TRENCH
SCALE: 1/2" = 1'-0"



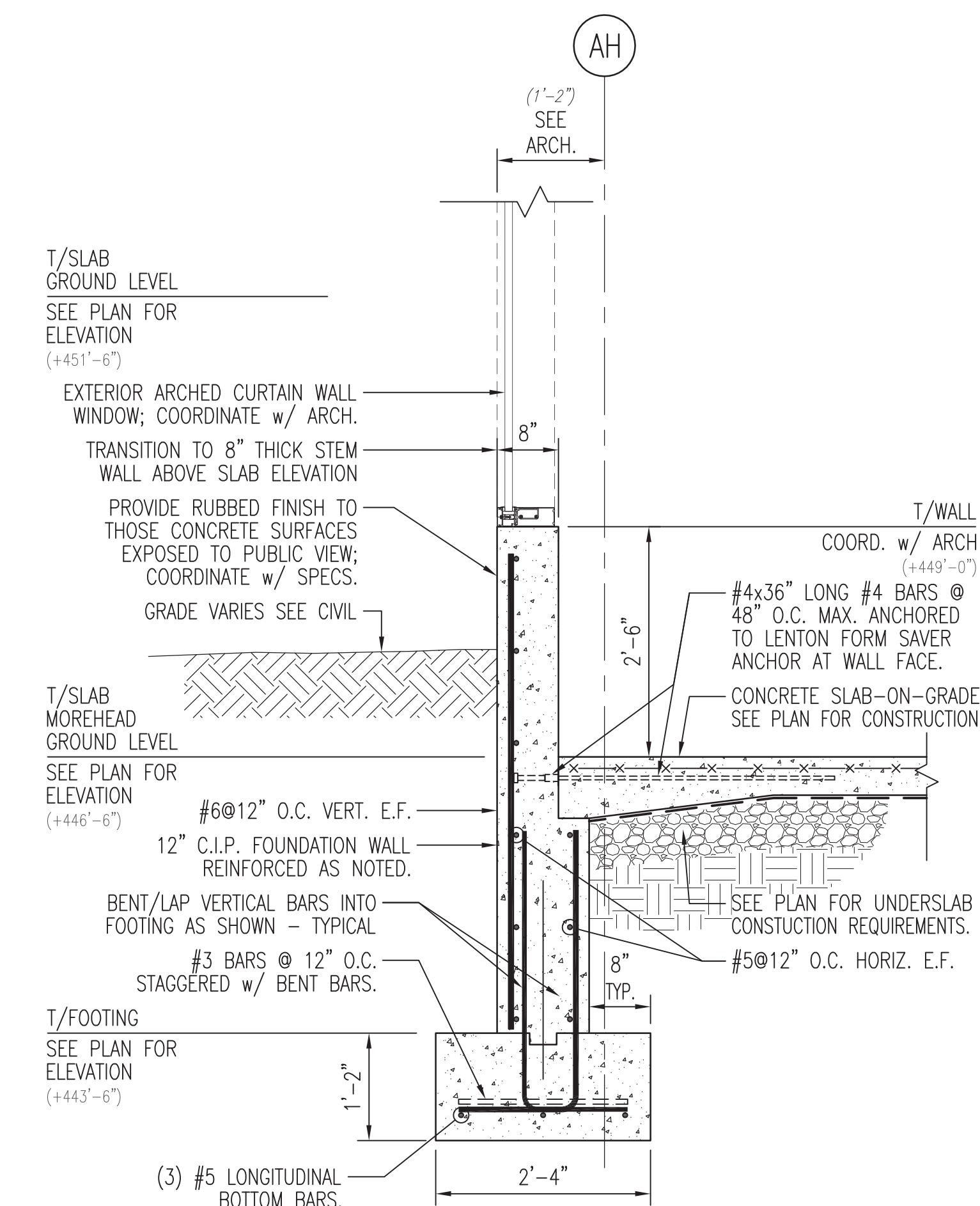
- GENERAL NOTES:**
1. THE TYPICAL DETAIL SHOWN IS INTENDED TO SHOW THAT OVER-EXCAVATION IS REQUIRED BY THE GEOTECHNICAL SOILS REPORT TO ACHIEVE SUITABLE BEARING CAPACITY FOR THE FOOTINGS/FOUNDATIONS. IT IS ALSO BEING PROVIDED AS AN ALTERNATIVE TO LOWERING THE FOOTING ELEVATIONS. THE GENERAL CONTRACTOR IN COORDINATION WITH THE SITE EXCAVATION CONTRACTOR MAY OVER-EXCAVATE DOWN TO SUITABLE BEARING ELEVATIONS AS INDICATED ON THE PLANS AND PROVIDE COMPACTED ENGINEERED/CONTROLLED FILL BELOW THE FOOTINGS AND BRING UP/RAISE THE FOOTING ELEVATIONS TO REDUCE THE DEPTH OF COLUMN PIERS AND EXTERIOR FOUNDATION WALL CONSTRUCTION.
 2. SUB-GRADE ON SITE SHOULD BE INSPECTED BY THE GEOTECHNICAL ENGINEER AS OUTLINED IN THE GEOTECHNICAL SOILS REPORT BY Langan DATED September 30, 2014.
 3. THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER ARE TO BE EXPLICITLY FOLLOWED REGARDING EXCAVATION TO SUITABLE BEARING STRATUM AND BACKFILL MATERIAL BELOW ALL BUILDING FOUNDATIONS AND SLABS.
 4. REPLACEMENT WITH FILL SHOULD BE PROPOSED BY THE GENERAL CONTRACTOR IN COORDINATION WITH THE EXCAVATION CONTRACTOR AND ONLY BE PERFORMED WHEN APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 5. OVER-EXCAVATION AND FILL CANNOT OCCUR ALONG THE FACE OF EXISTING CONSTRUCTION/BUILDINGS BECAUSE DOING SO WILL IMPOSE LATERAL PRESSURE ON EXISTING FOUNDATION/BASEMENT WALL CONSTRUCTION.
 6. REQUIRES APPROVAL BY THE STRUCTURAL AND GEOTECHNICAL ENGINEERS.

TYPICAL FOOTING/FOUNDATION PLACEMENT (OVER-EXCAVATION) CONSTRUCTION DETAIL
 (- NOT APPLICABLE FOR FOOTING ALONG THE EXISTING BUILDINGS -)

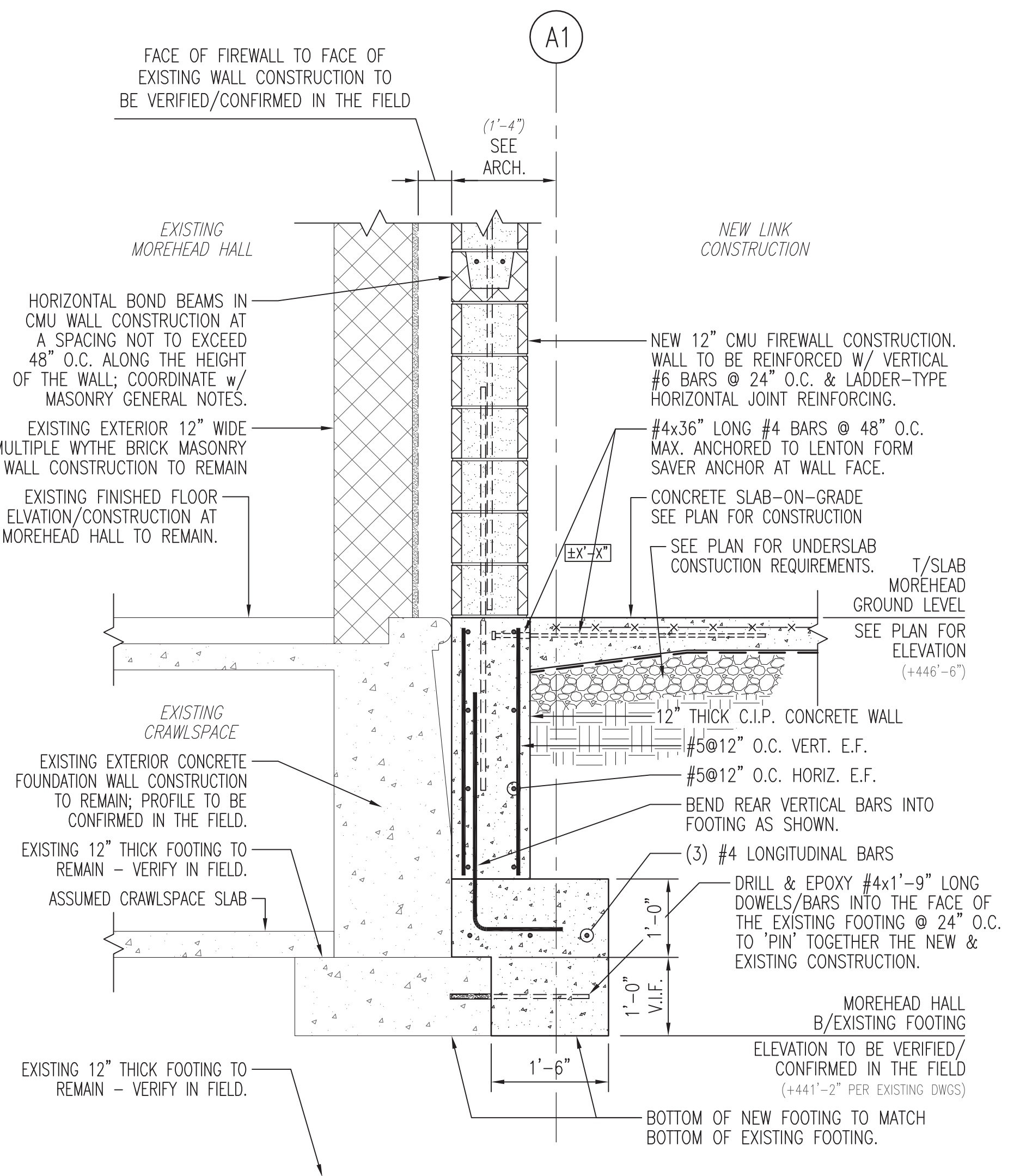
SCALE: N.T.S.



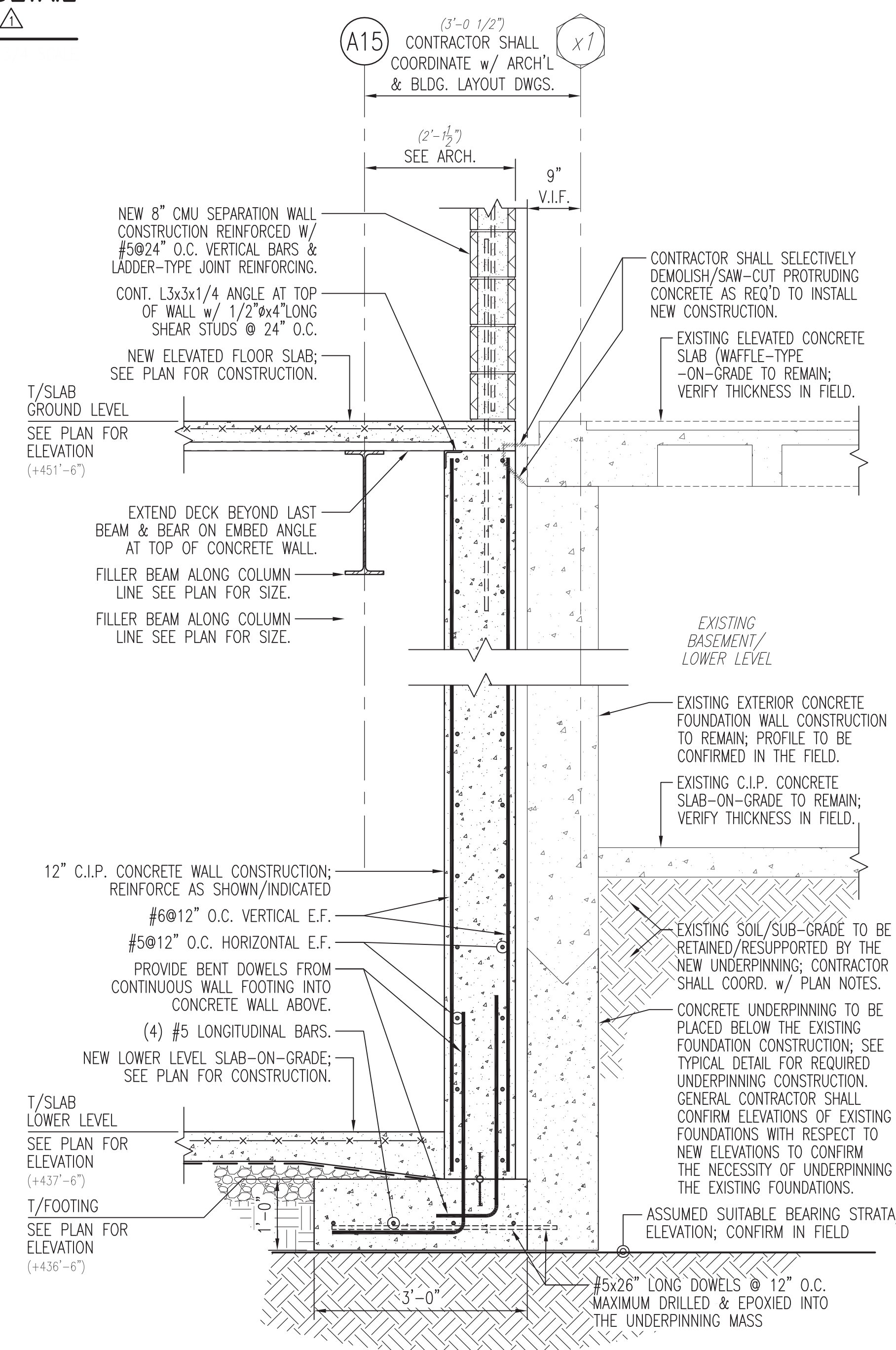
SECTION THRU LINK ADJACENT TO MOREHEAD ALONG COLUMN LINE AD
 SCALE: 3/4" = 1'-0"



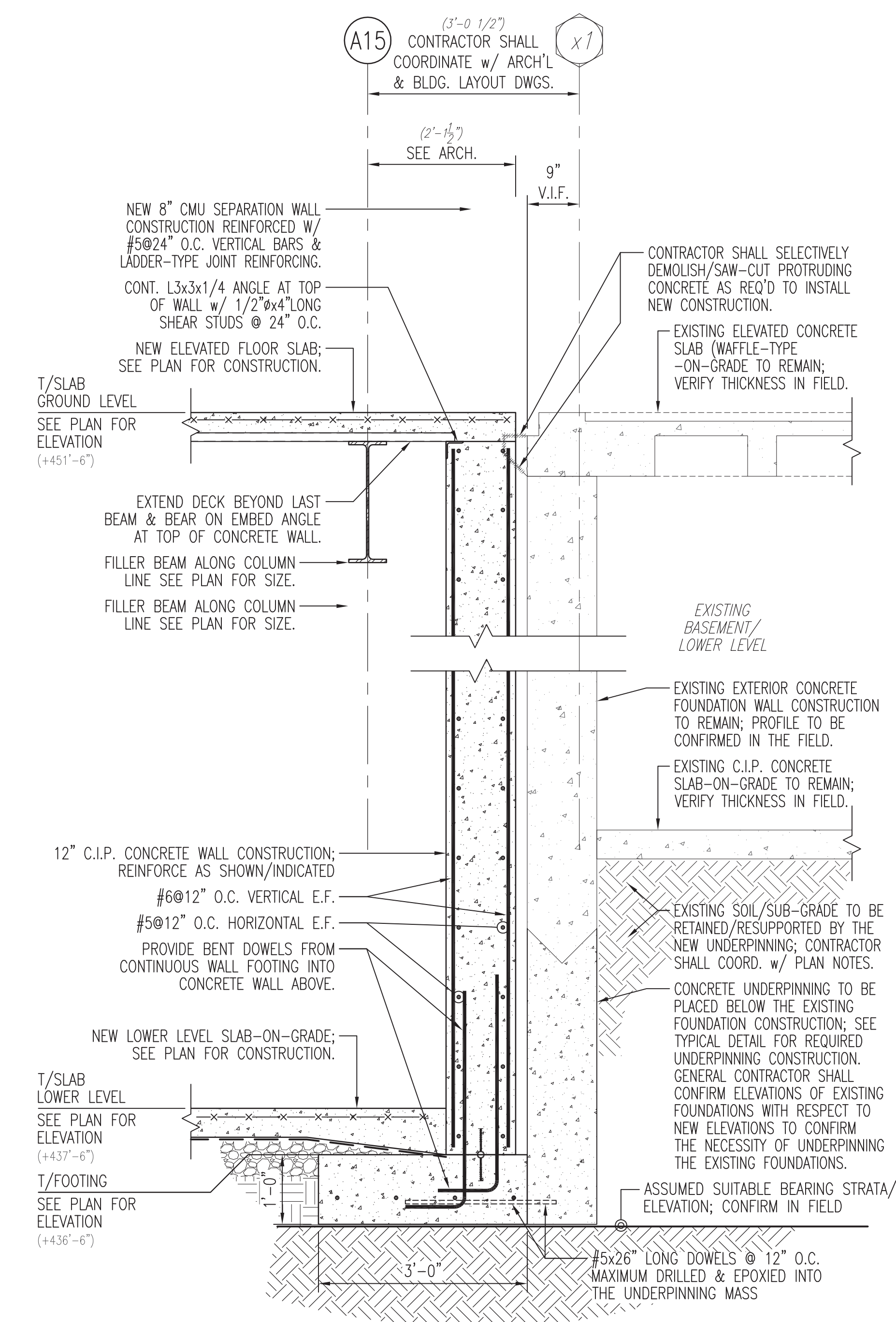
SECTION THRU LINK ADJACENT TO MOREHEAD ALONG COLUMN LINE AH
 SCALE: 3/4" = 1'-0"



SECTION THRU FIREWALL AT THE EXISTING MOREHEAD HALL
 SCALE: 3/4" = 1'-0"



SECTION THRU CMU SEPARATION WALL AT THE EXISTING LIFE/DUMONT HALL
 SCALE: 3/4" = 1'-0"

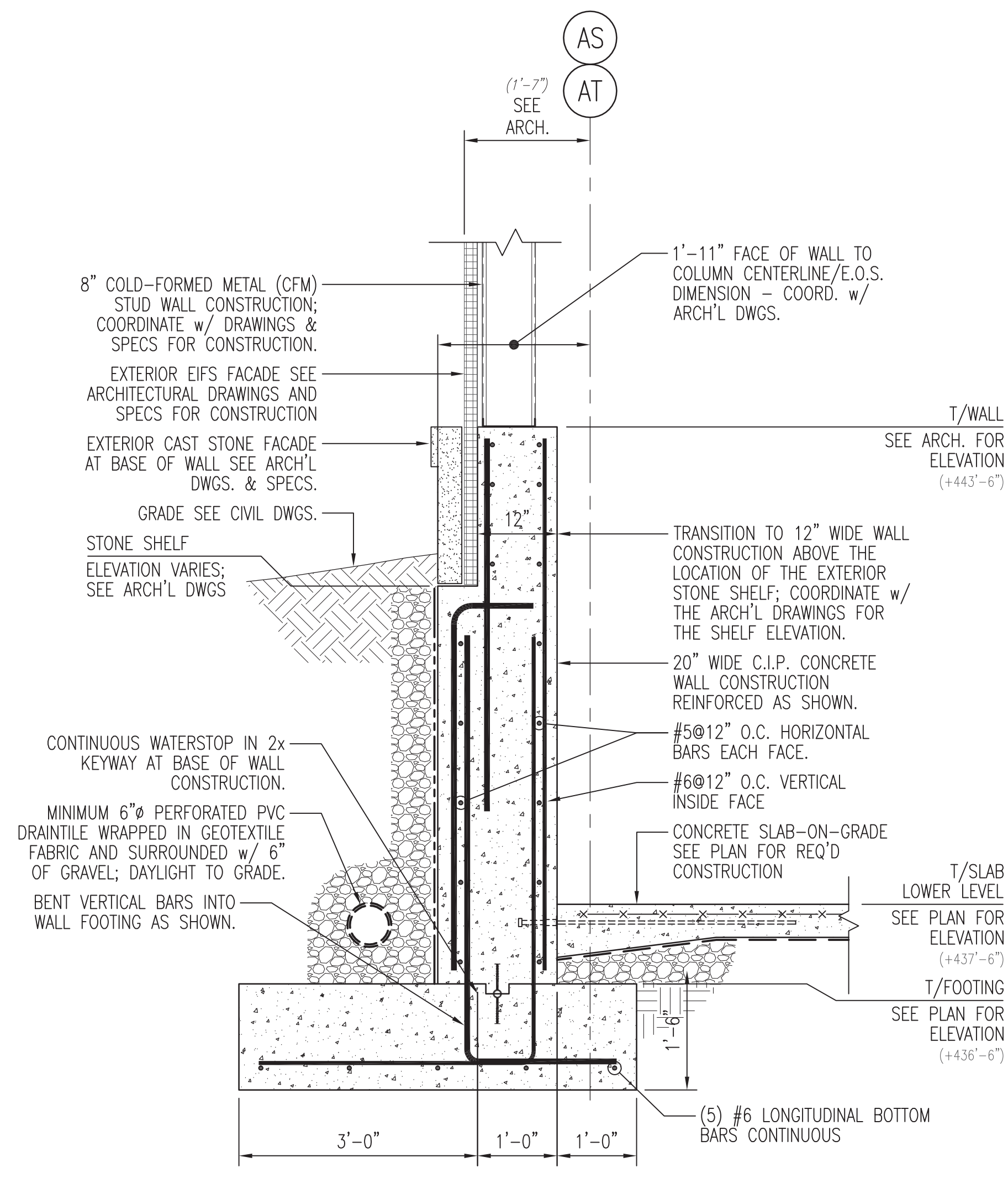


FOUNDATION SECTION THRU WALL AT THE EXISTING LIFE/DUMONT HALL
 SCALE: 3/4" = 1'-0"

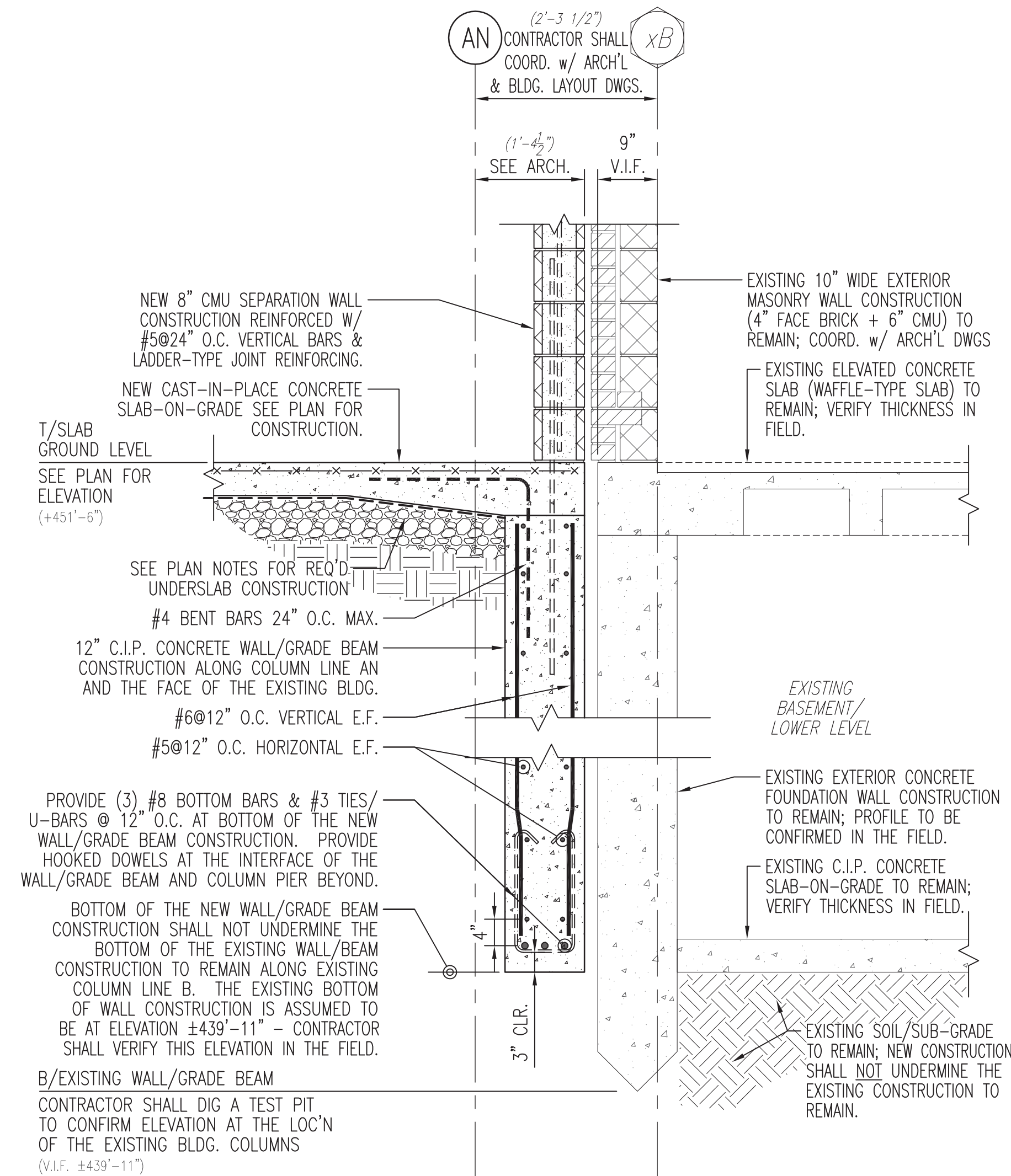
Name: Marc Bowen, PE	DATE
NJ License Number: 44034	11/21/14
CONFORMED SET	2015/06/12

1	ADDENDUM 1	2015/04/03
	BID SET	2015/03/11
No.	Description	Date

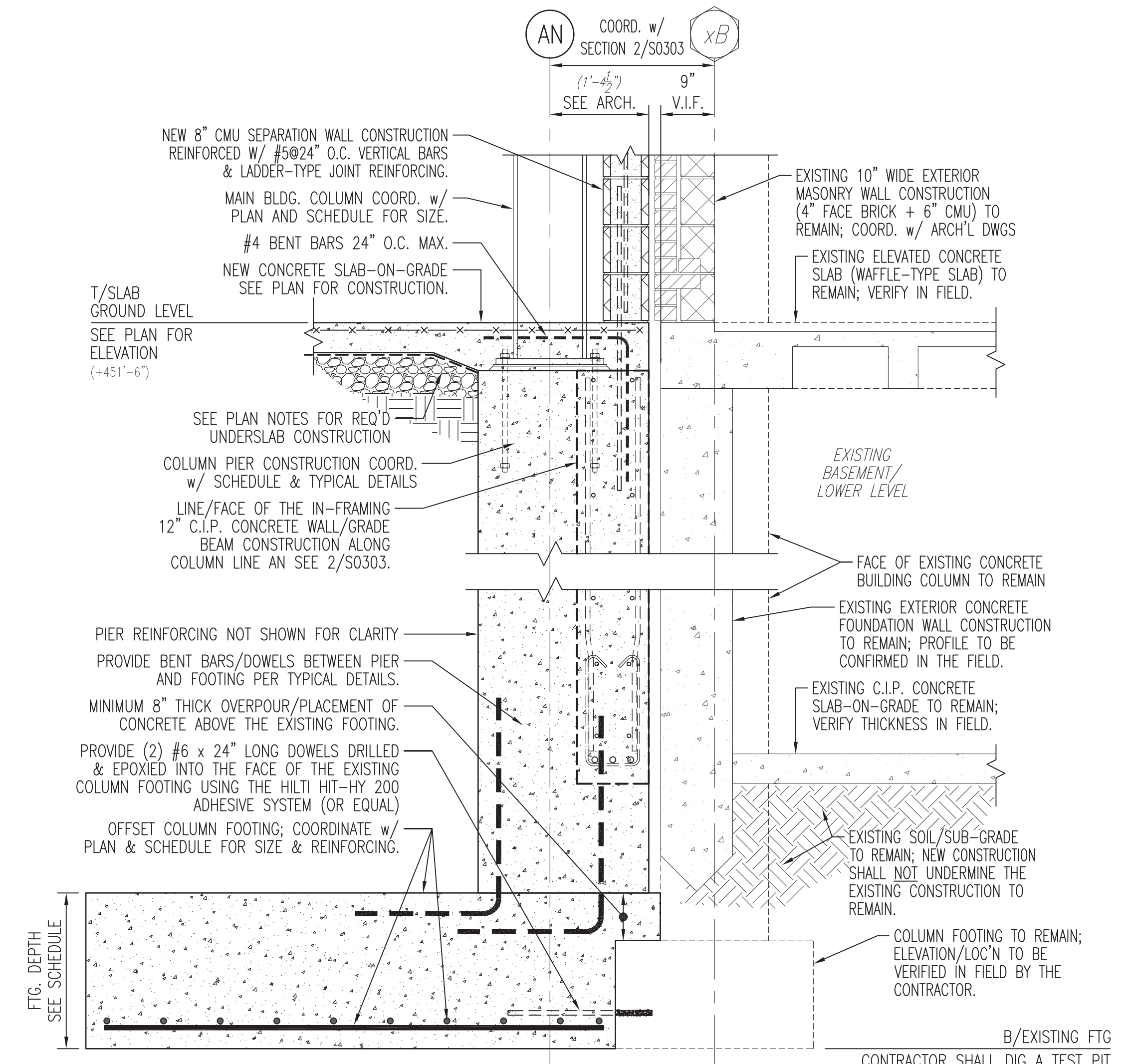
FOUNDATION SECTIONS & DETAILS



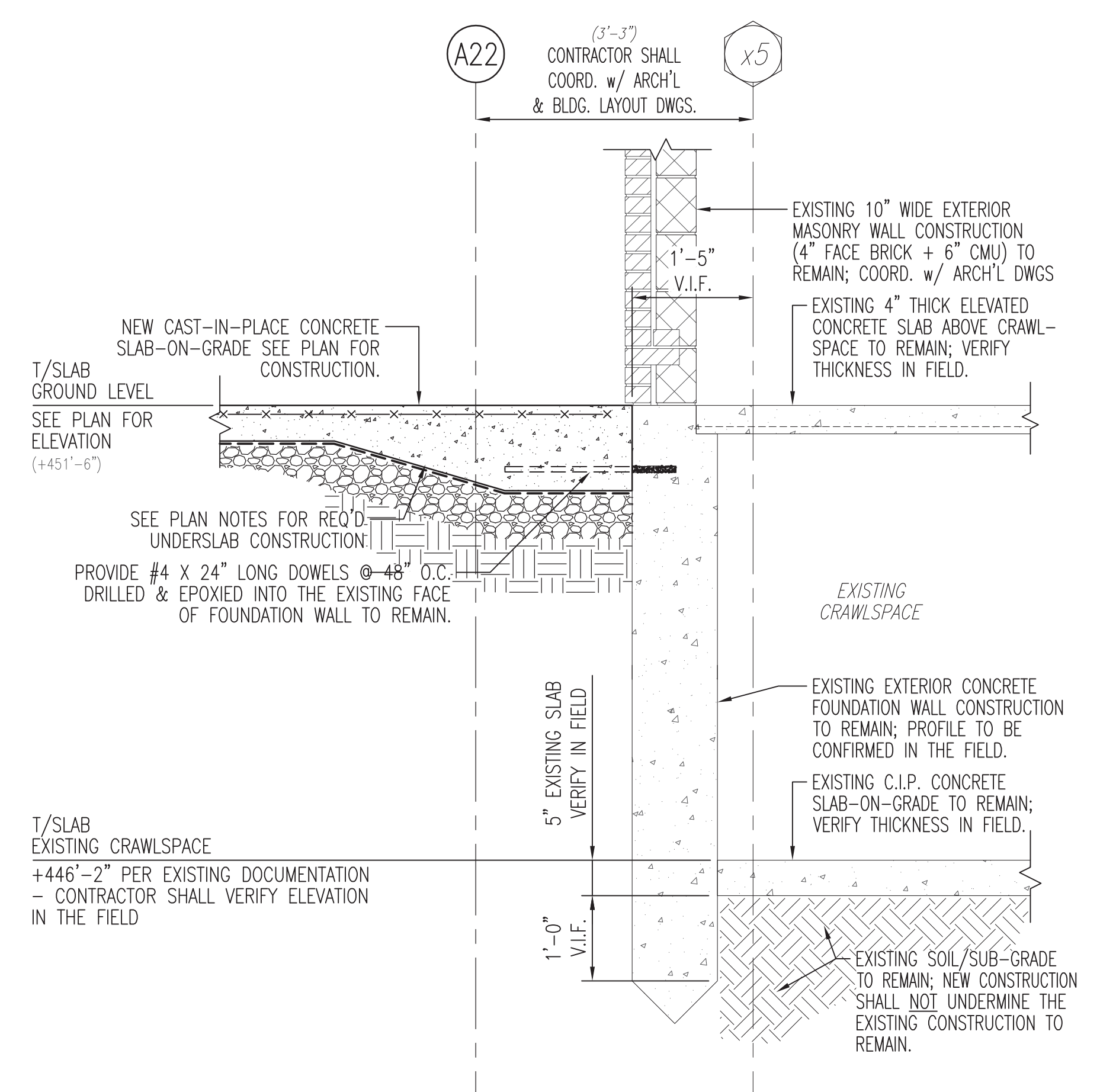
1 COMMON/TYPICAL SECTION AT LOWER LEVEL FOUNDATION WALL
 S0303 SCALE: 3/4" = 1'-0"



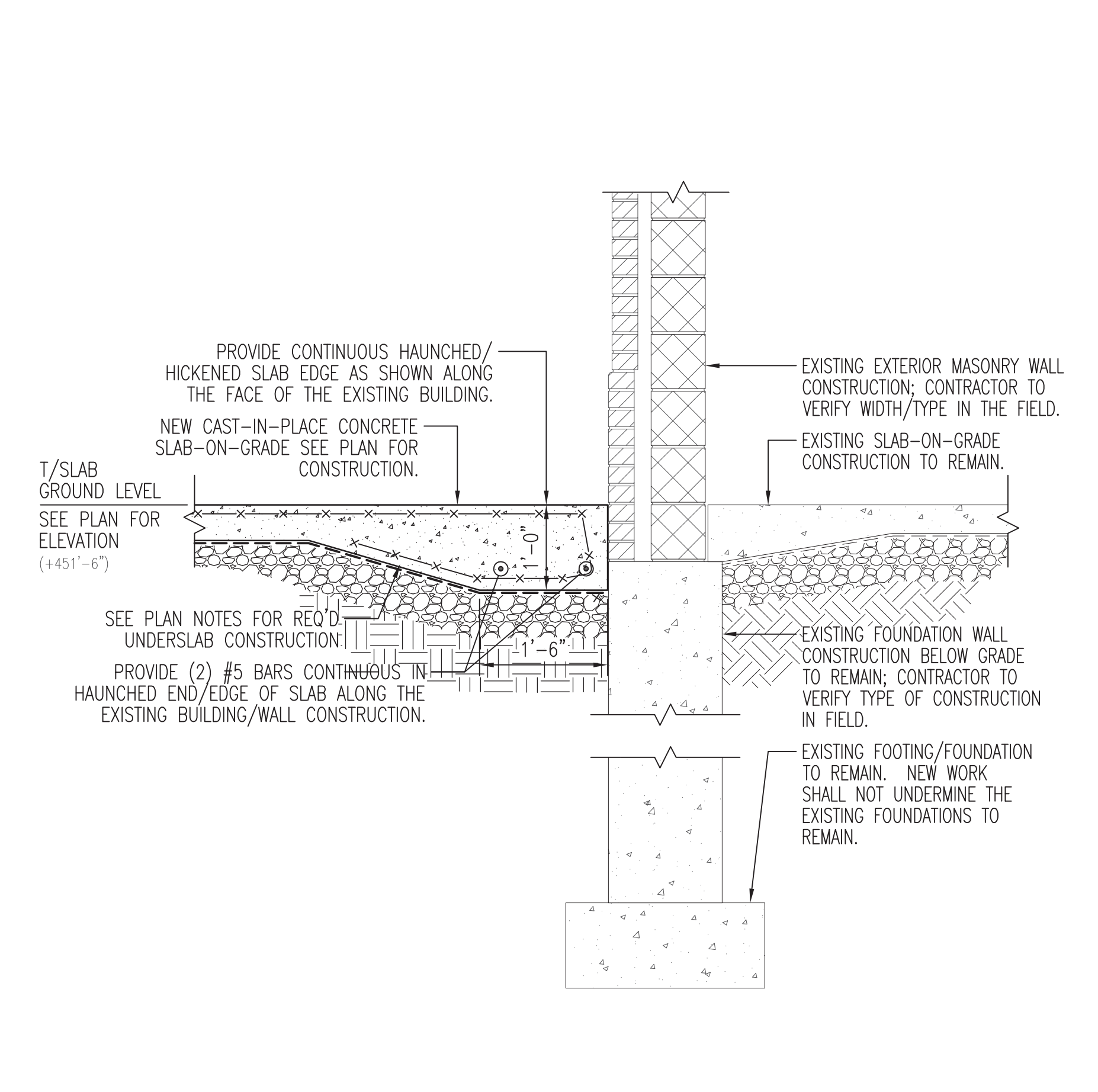
2 SECTION THRU CMU SEPARATION WALL AT THE EXISTING LIFE/DUMONT HALL
 S0303 SCALE: 3/4" = 1'-0"



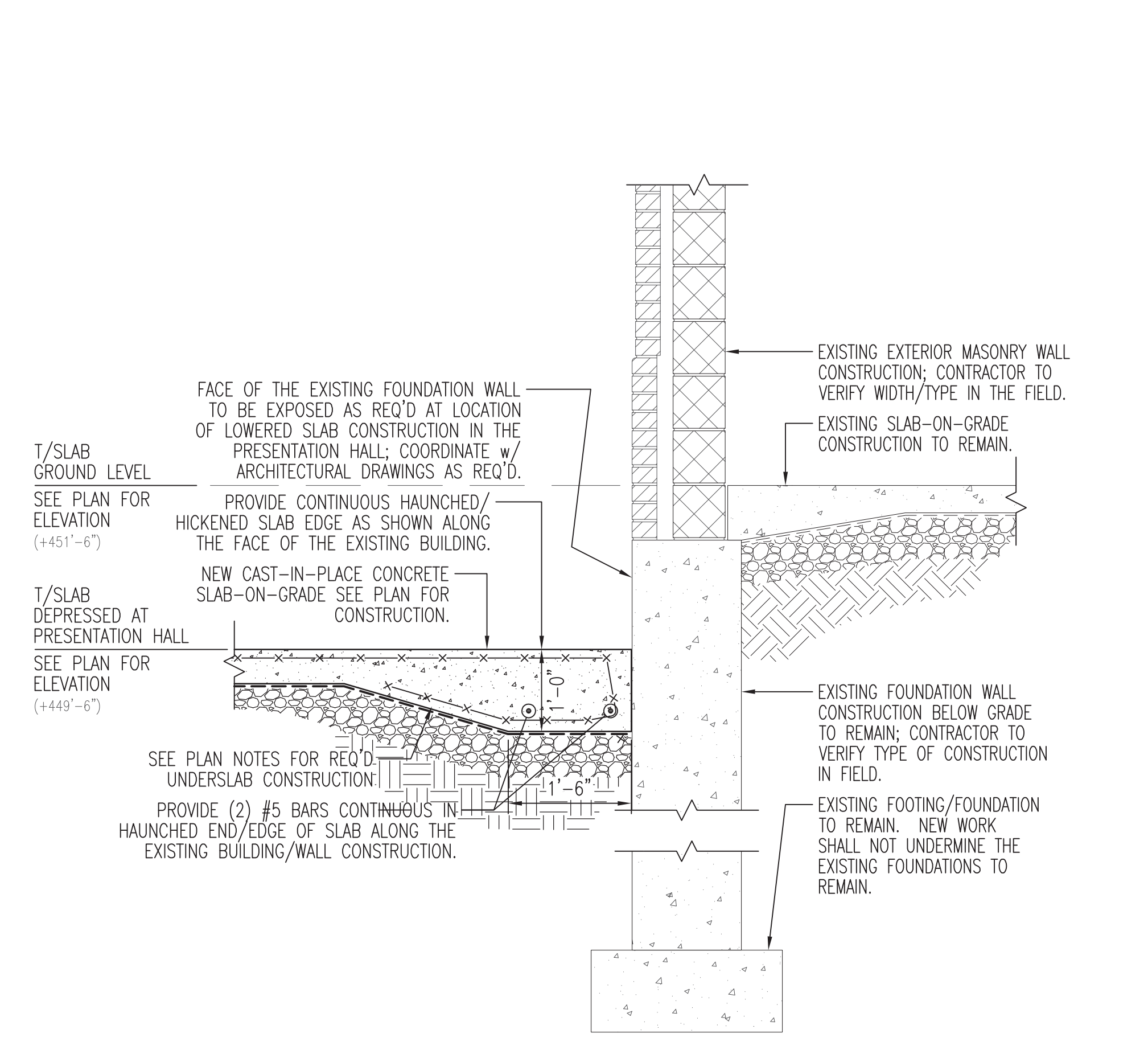
3 FOUNDATION SECTION AT EXISTING COLUMN THRU WALL AT THE EXISTING LIFE/DUMONT HALL
 S0303 SCALE: 3/4" = 1'-0"



4 FOUNDATION SECTION ALONG EXISTING LIFE/DUMONT HALL
 S0303 SCALE: 3/4" = 1'-0"



5 FOUNDATION SECTION ALONG EXISTING ADDITION TO LIFE/DUMONT HALL
 S0303 SCALE: 3/4" = 1'-0"

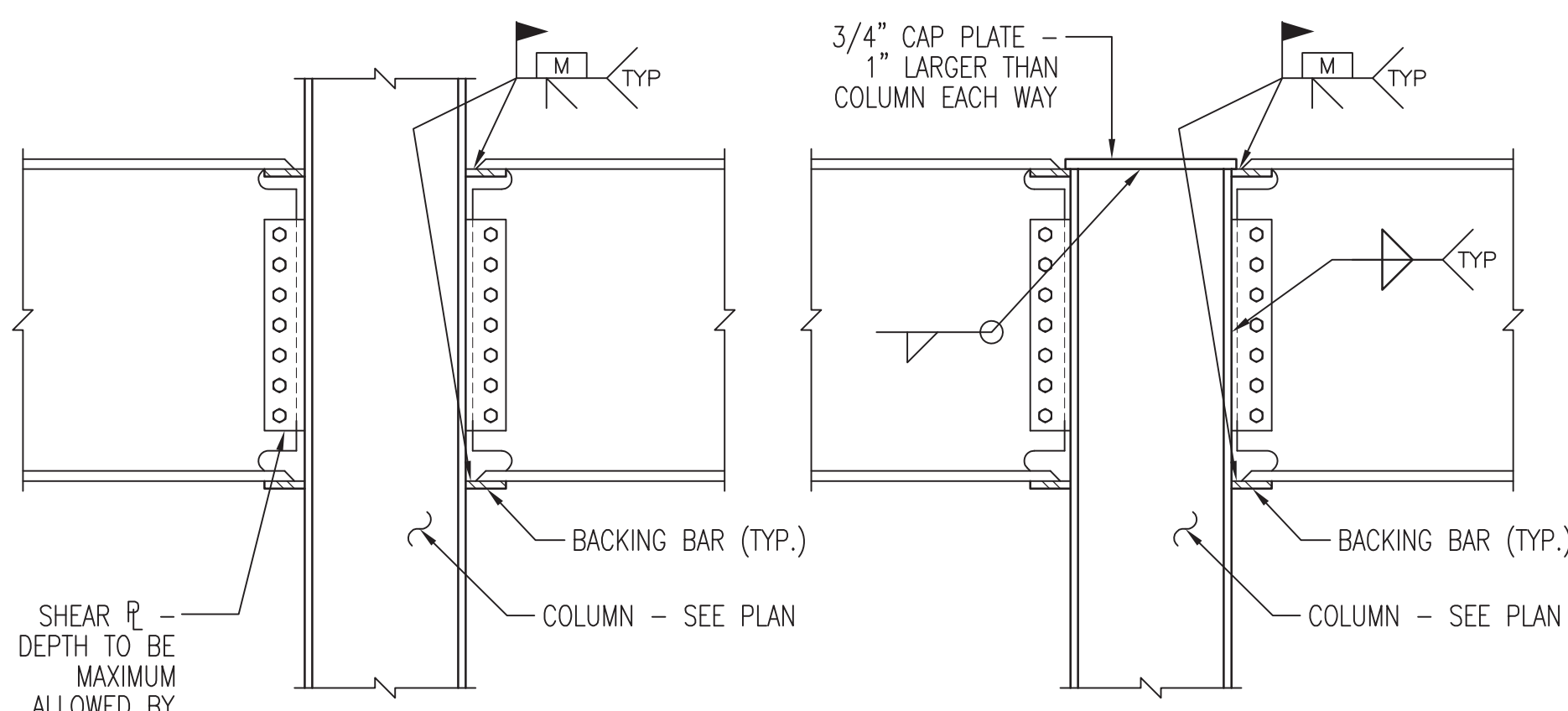


6 FOUNDATION SECTION ALONG EXISTING ADDITION TO LIFE/DUMONT HALL
 S0303 SCALE: 3/4" = 1'-0"

Name: Marc Bowen, PE	DATE
NJ License Number: 44034	11/21/14
CONFORMED SET	2015/06/12

1	ADDENDUM 2	2015/04/14
	BID SET	2015/03/11
No.	Description	Date

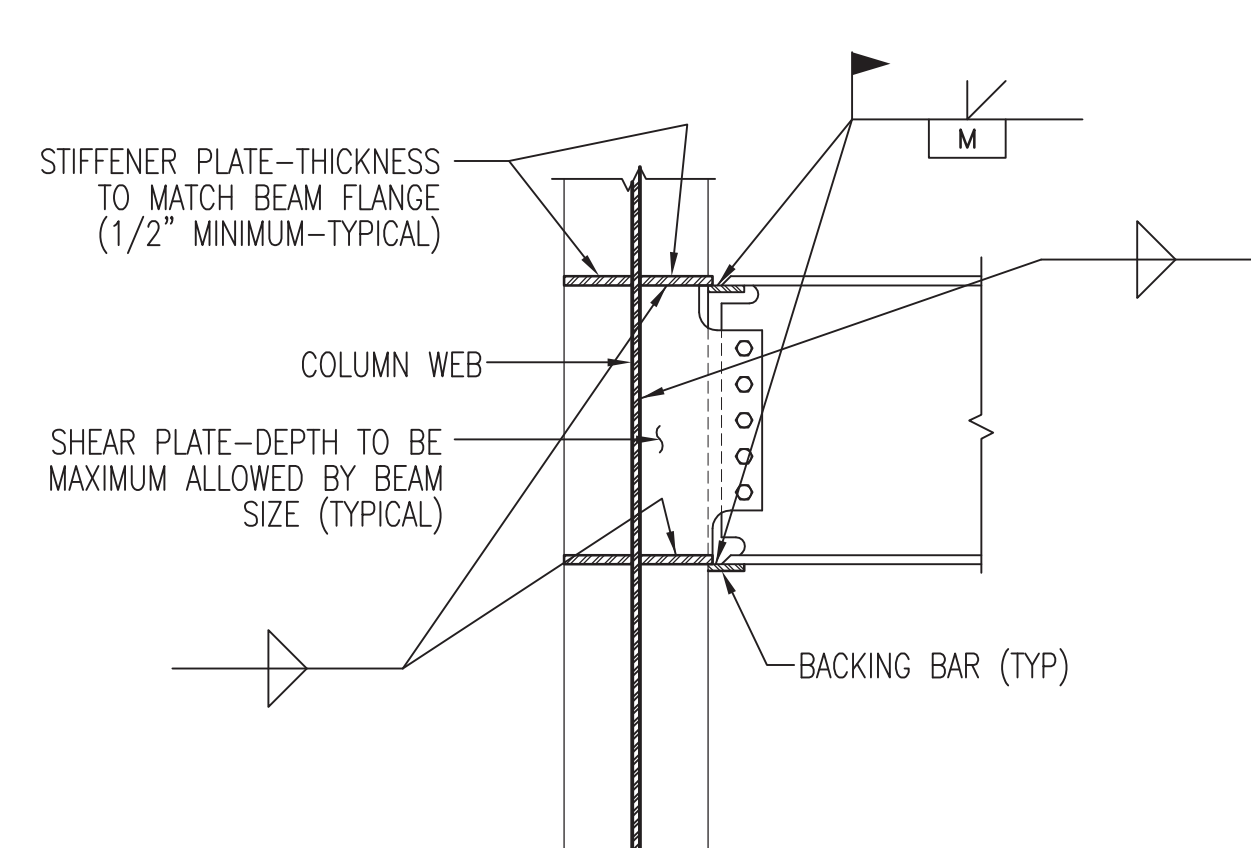
FOUNDATION SECTIONS & DETAILS



- GENERAL NOTES:
- MOMENT CONNECTIONS DESIGNED TO DEVELOP 80% OF BEAM MOMENT CAPACITY.
 - COLUMNS ARE SIZED TO ELIMINATE STIFFENERS AND WEB DOUBERS AT LOCATIONS WHERE COLUMN CONTINUES THROUGH CONNECTION. PROVIDE 3/4" CAP PLATE AT LOCATIONS WHERE COLUMN ENDS AT TOP OF CONNECTION (I.E. ROOF AREAS).

TYPICAL FULLY WELDED BEAM MOMENT CONNECTION - BEAM TO COLUMN FLANGE

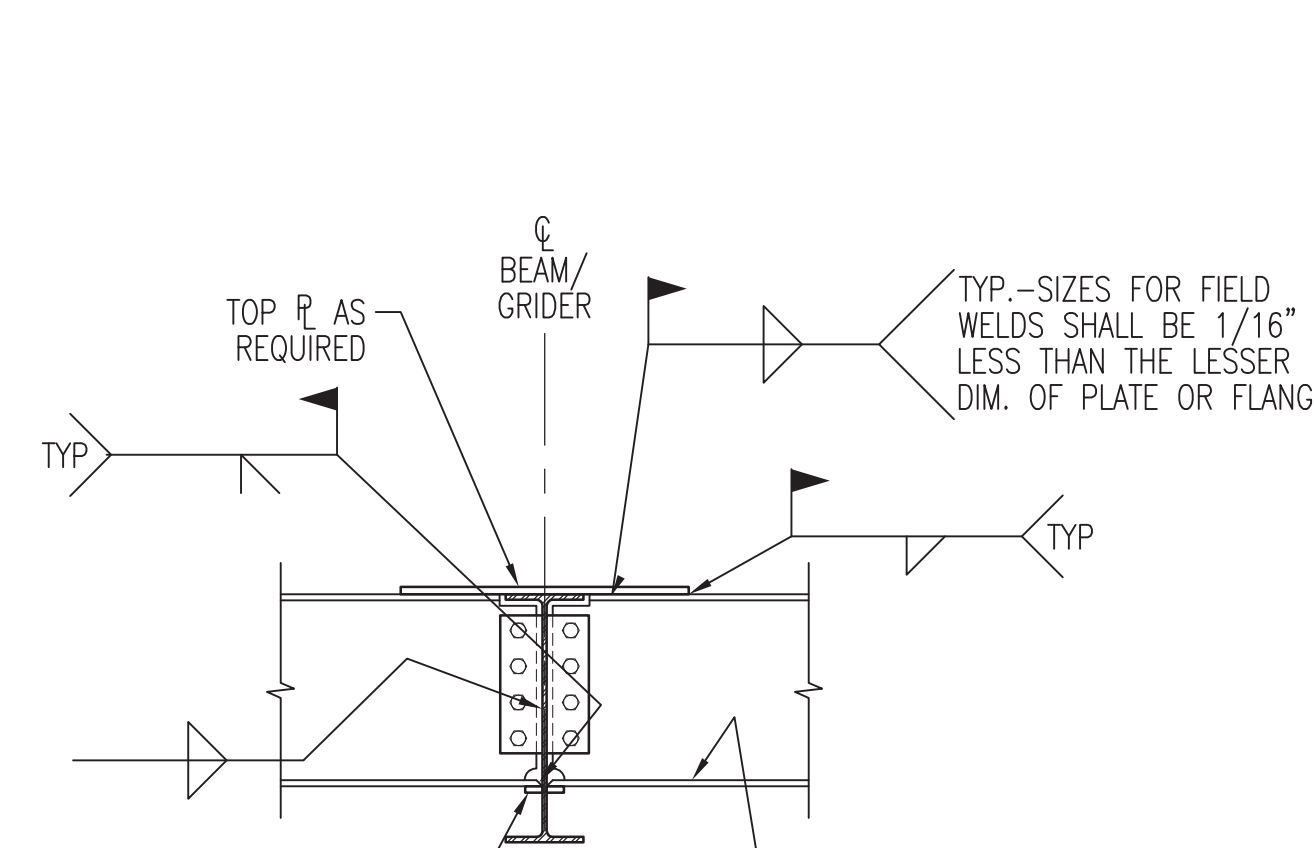
SCALE: N.T.S.



- GENERAL NOTES:
- MOMENT CONNECTIONS DESIGNED TO DEVELOP 80% OF BEAM MOMENT CAPACITY.
 - SEE PLANS FOR BEAM SIZES AND COORDINATE WITH COLUMN SCHEDULE FOR COLUMN SIZES.

TYPICAL FULLY WELDED BEAM MOMENT CONNECTION - BEAM TO COLUMN WEB

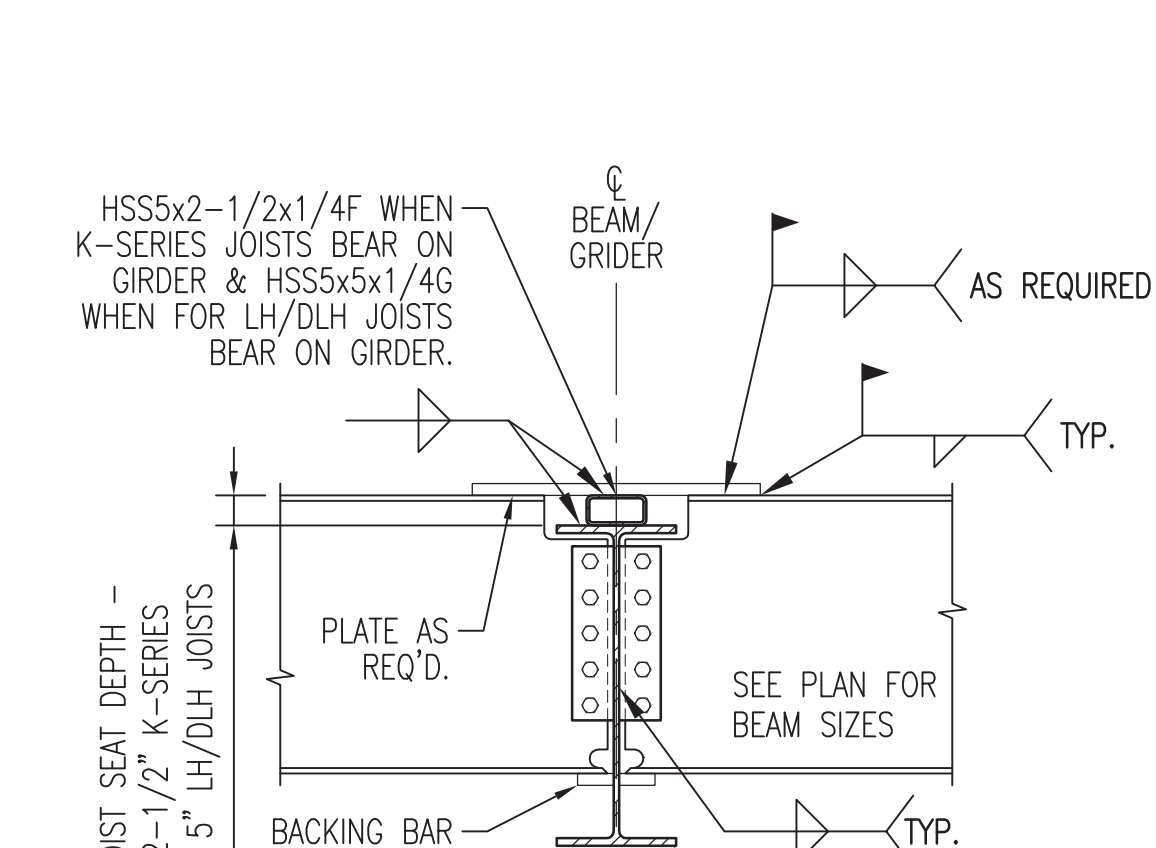
SCALE: N.T.S.



- GENERAL NOTES:
- MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP 80% OF BEAM MOMENT CAPACITY.
 - COORDINATE WITH PLANS FOR THE LOCATION(S) OF REQUIRED CONNECTION.

TYPICAL THRU-MOMENT CONNECTION DETAIL - FULLY RESTRAINED ACROSS GIRDER

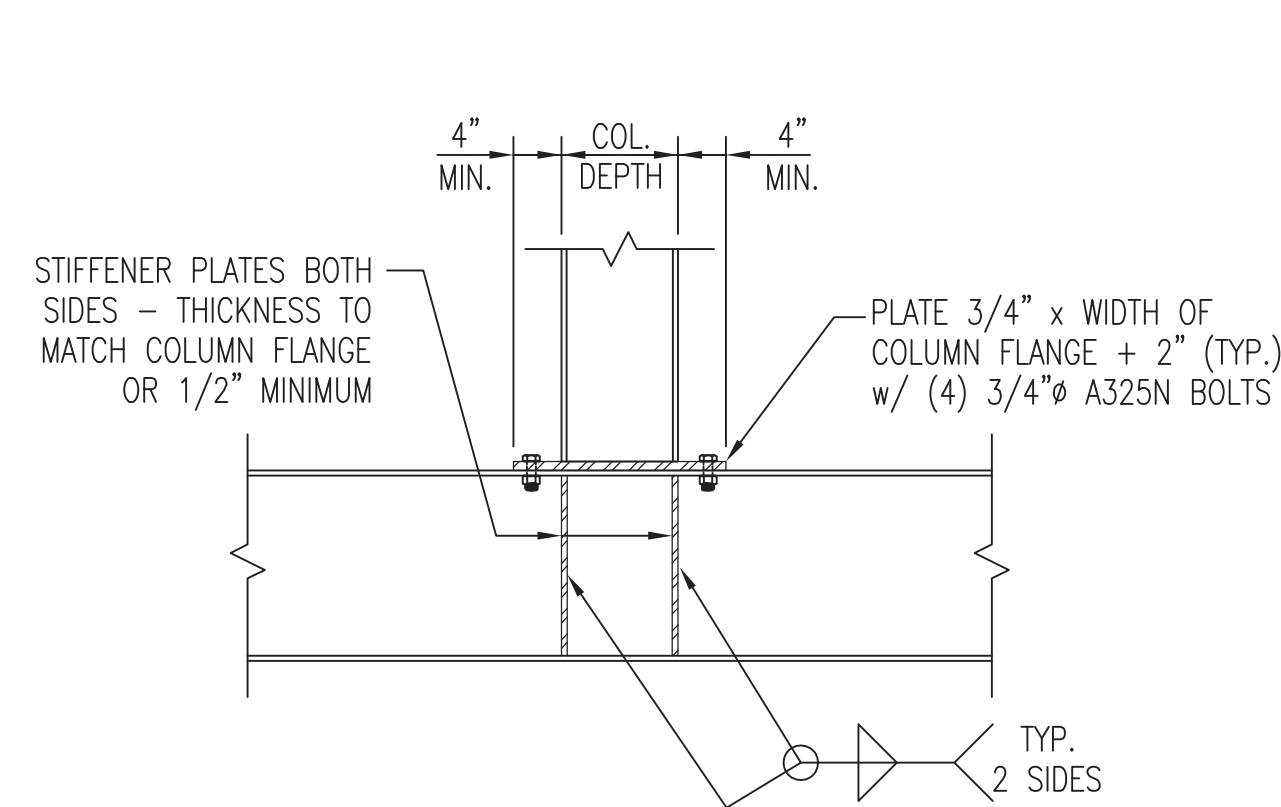
SCALE: N.T.S.



- GENERAL NOTES:
- MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP 80% OF BEAM MOMENT CAPACITY.
 - COORDINATE WITH PLANS FOR THE LOCATION(S) OF REQUIRED CONNECTION.

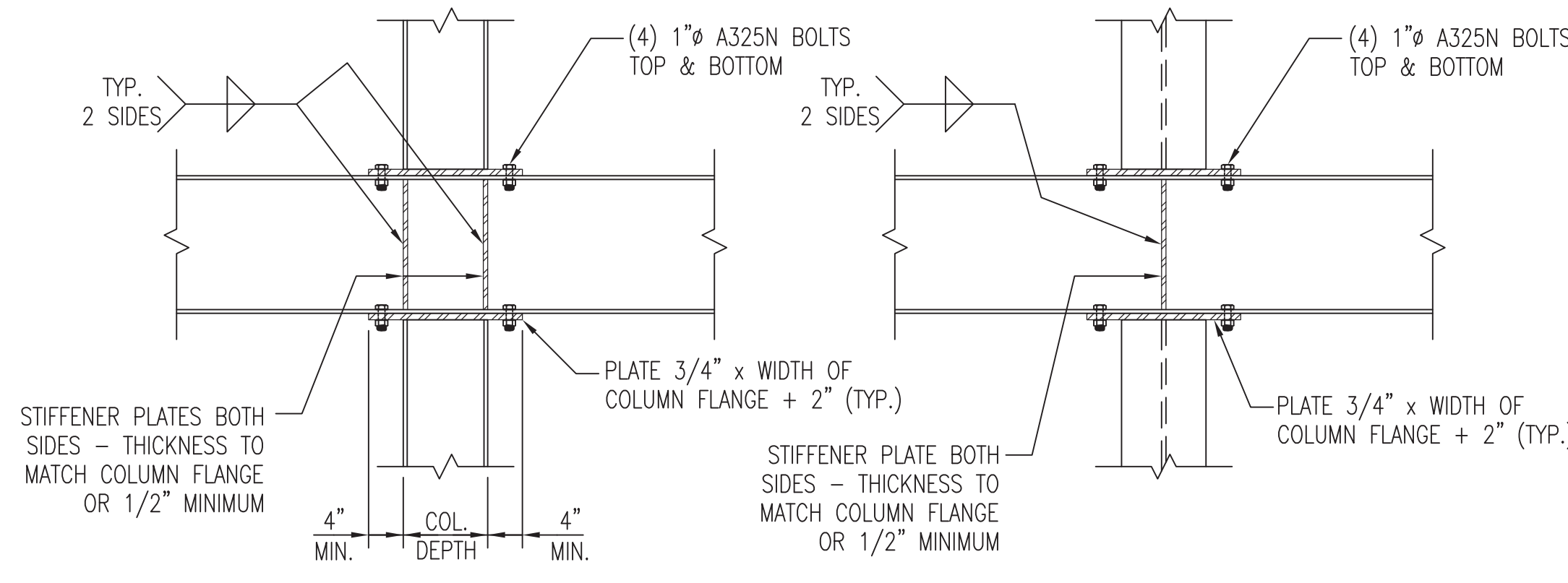
TYPICAL MOMENT CONNECTION THROUGH GIRDER SUPPORTING JOISTS

SCALE: N.T.S.



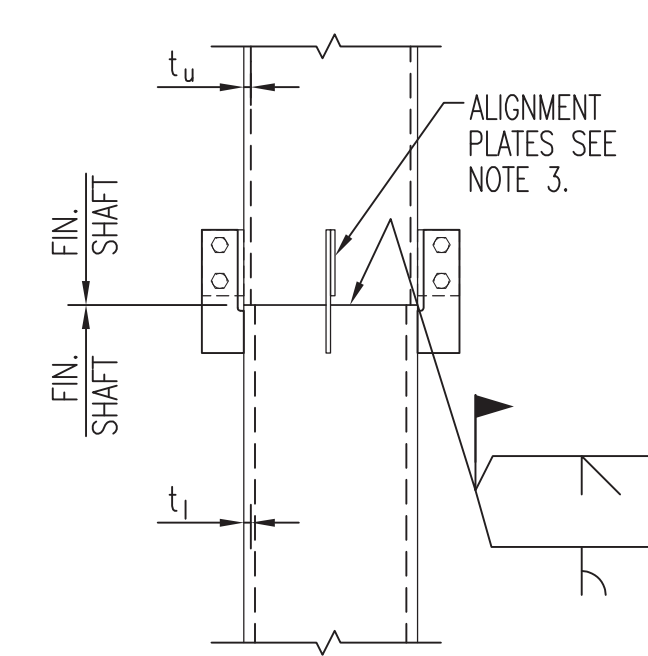
TYPICAL COLUMN ON BEAM DETAIL

SCALE: N.T.S.



TYPICAL DISCONTINUOUS COLUMN

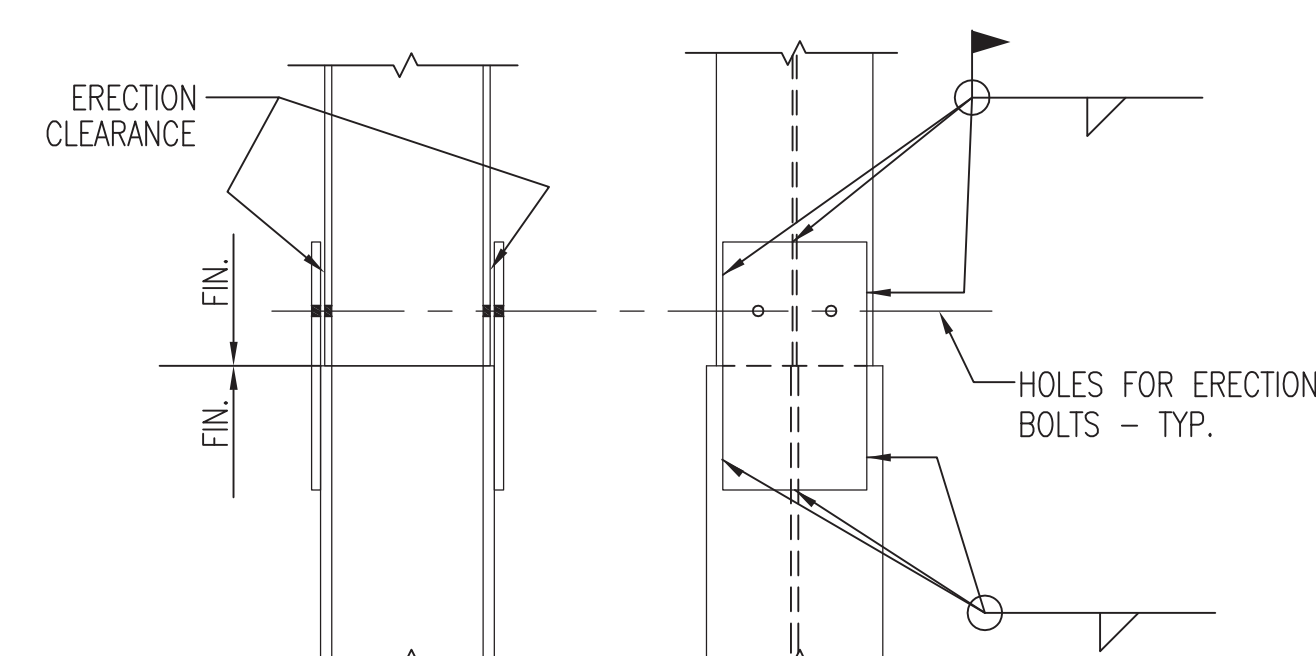
SCALE: N.T.S.



- NOTES:
- SIZE ALL WELDS, PLATES, ETC. PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION, 13th ED., TABLE 14-3, CASE X AS DEPICTED IN THE ABOVE DETAIL.
 - STEEL FABRICATOR MAY SUBMIT ALTERNATE DETAIL FOR ENGINEER REVIEW.
 - COMPLY WITH ALL REQUIREMENTS OF FIT-UP, ALIGNMENT AND STABILITY LIFTING DEVICES, ETC. PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

TYPICAL COLUMN SPLICE DETAIL - HSS AND ROUND HSS COLUMNS

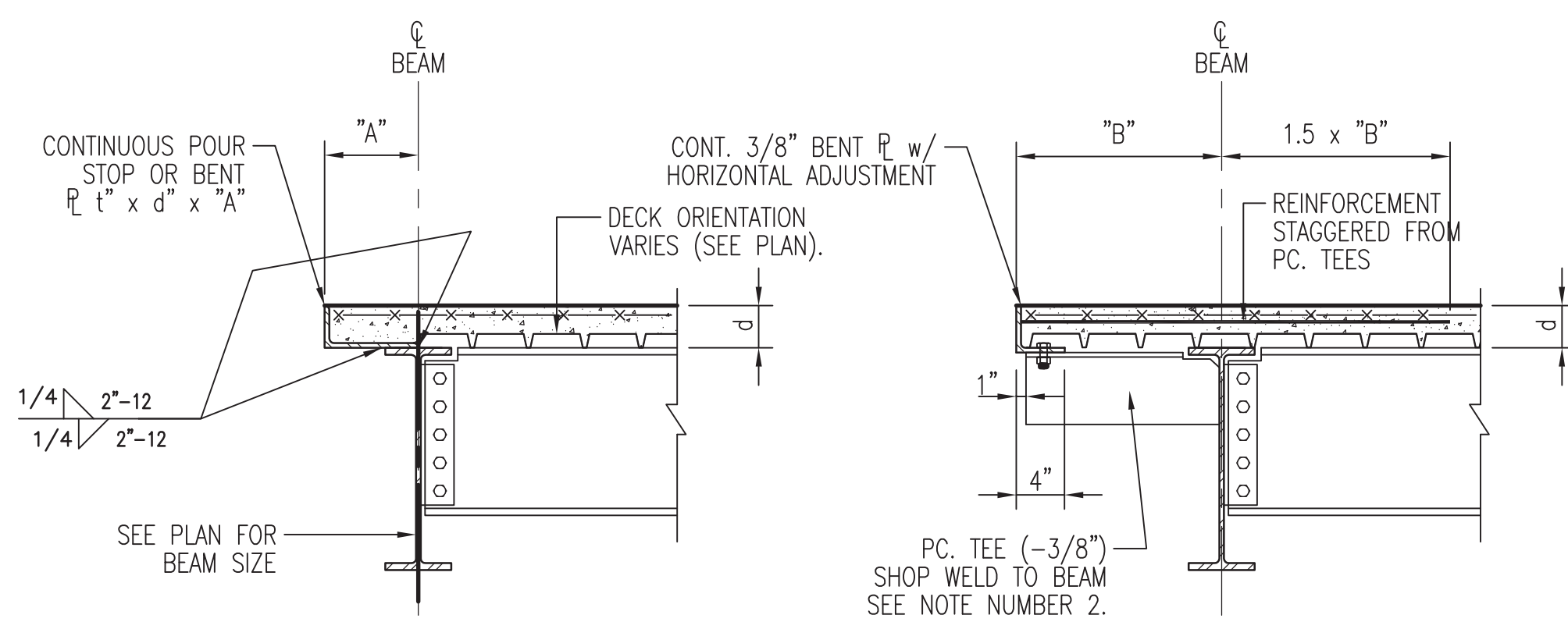
SCALE: N.T.S.



- NOTES:
- SIZE ALL WELDS, PLATES, ETC. PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION, 13th ED., TABLE 14-3, CASE IV AS DEPICTED IN THE ABOVE DETAIL.
 - STEEL FABRICATOR MAY SUBMIT ALTERNATE DETAIL FOR ENGINEER REVIEW.
 - COMPLY WITH ALL REQUIREMENTS OF FIT-UP, ALIGNMENT AND STABILITY LIFTING DEVICES, ETC. PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

TYPICAL COLUMN SPLICE DETAIL - WIDE FLANGE/W-SHAPE COLUMNS

SCALE: N.T.S.



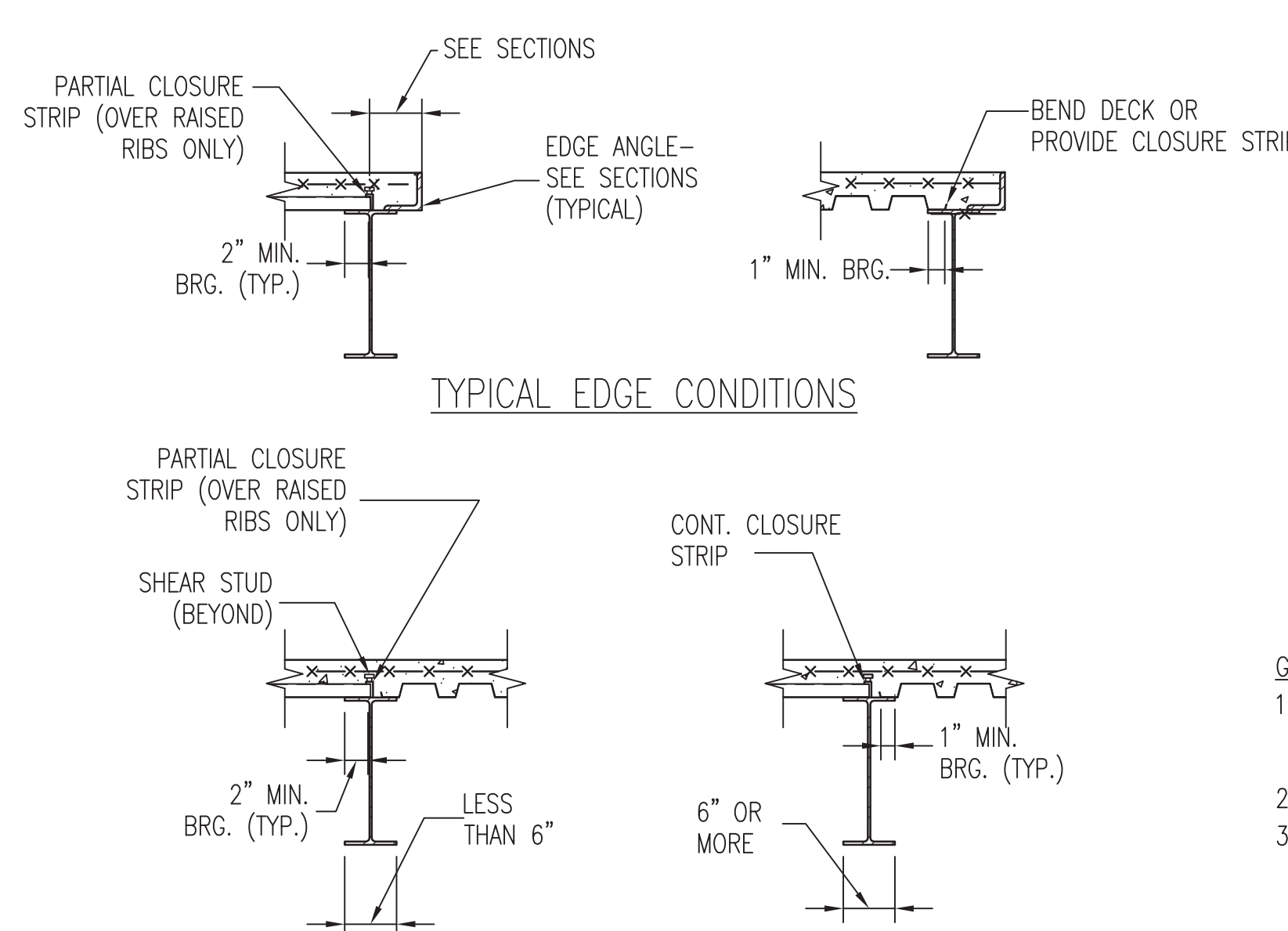
TYPE I	
DIMENSION "A"	PLATE (t)
A < 6"	16 gage
6" < A < 9"	1/4"
9" < A < 12"	3/8"

TYPE II			
DIMENSION "B"	PC. TEE/SPA.	REBAR	
12" < B < 16"	WT6x11/40" O.C.	#5 @ 40"	
16" < B < 20"	WT6x11/32" O.C.	#5 @ 32"	
20" < B < 30"	WT6x11/24" O.C.	#5 @ 24"	

- GENERAL NOTES:
- SLAB EDGE ATTACHMENTS ARE CUSTOM.
 - IF EDGE OF SLAB SUPPORTS CMU, USE FULL DEPTH 3/8" STIFF. PLATE IN LIEU OF TEE.

TYPICAL SLAB EDGE DETAILS

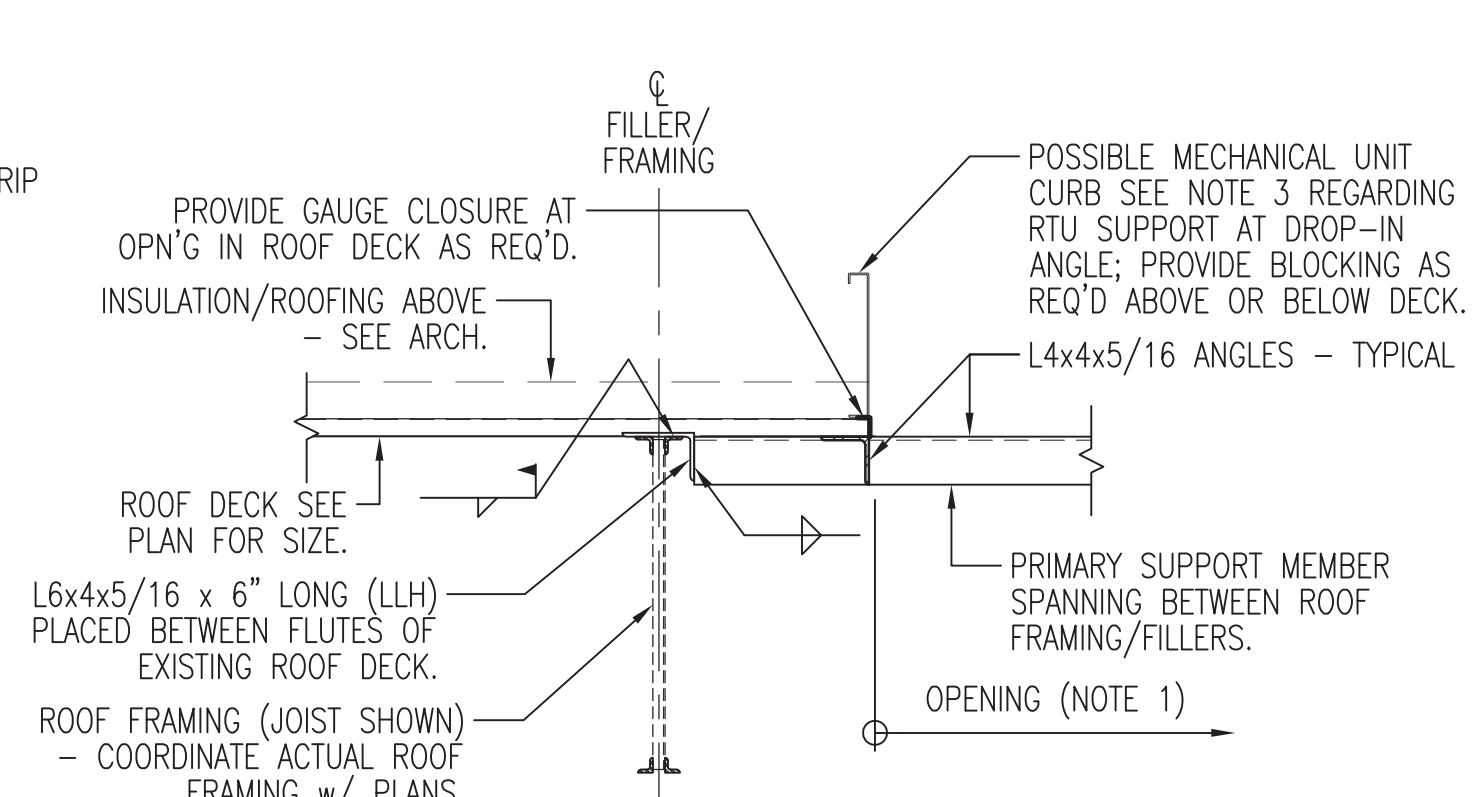
SCALE: N.T.S.



TYPICAL INTERIOR CONDITIONS

TYPICAL COMPOSITE DECK CLOSURE DETAILS

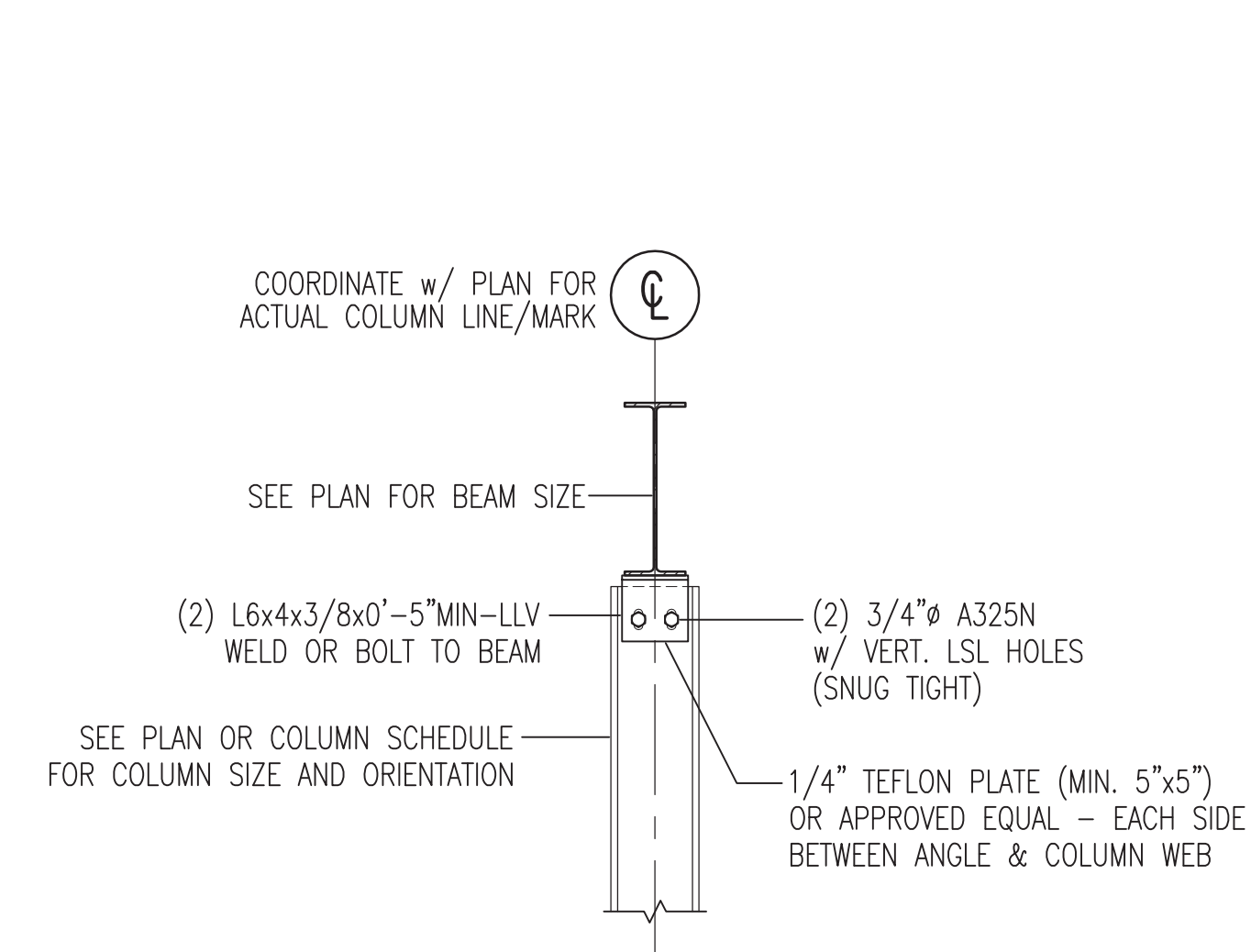
SCALE: N.T.S.



- GENERAL NOTES:
- GENERAL CONTRACTOR SHALL COORDINATE NUMBER OF FRAMES, OPENING SIZES AND LOCATIONS WITH RESPECTIVE TRADE CONTRACTORS AND ARCHITECTURAL PLANS PRIOR TO SUBMITTAL OF STRUCTURAL STEEL SHOP DRAWINGS.
 - CONSULT ENGINEER WHEN SPAN OF PRIMARY SUPPORT OR HEADER EXCEEDS 8'-0".
 - CONTRACTOR OPTION: PROVIDE DROP-IN ANGLE FRAME BELOW EXISTING ROOF DECK IN LIEU OF C6 CHANNELS ABOVE DECK PER THE TYPICAL NEW ROOFTOP MECHANICAL UNIT SUPPORT DETAIL.

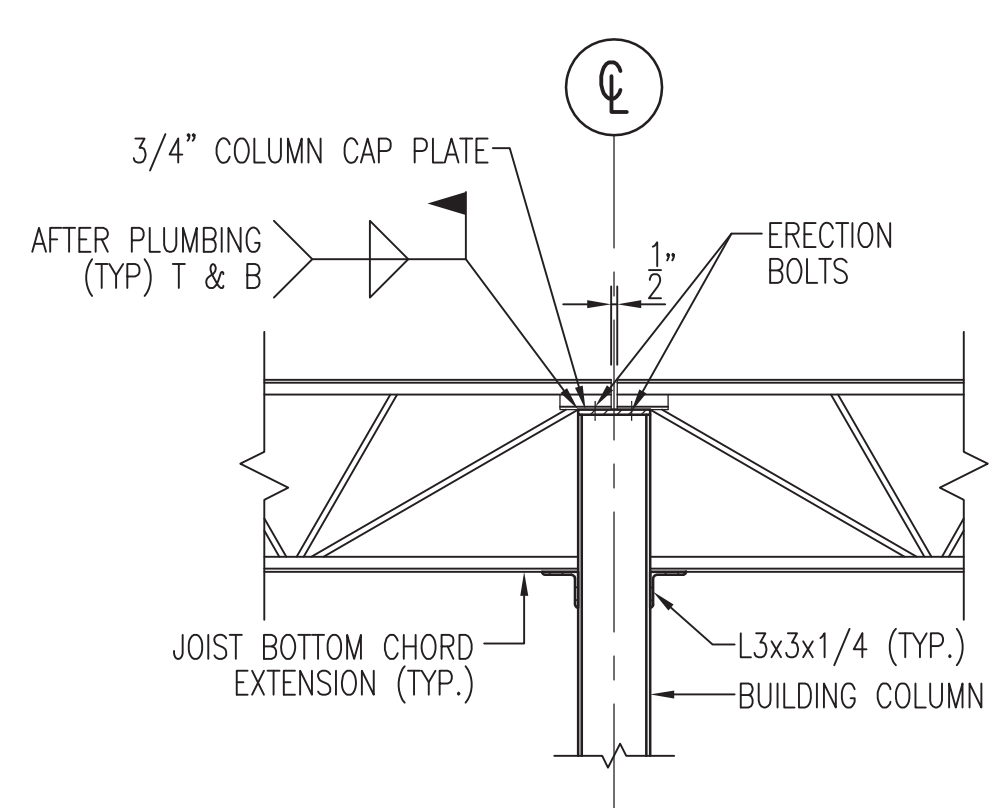
TYPICAL DROP-IN ANGLE FRAME DETAIL

SCALE: N.T.S.



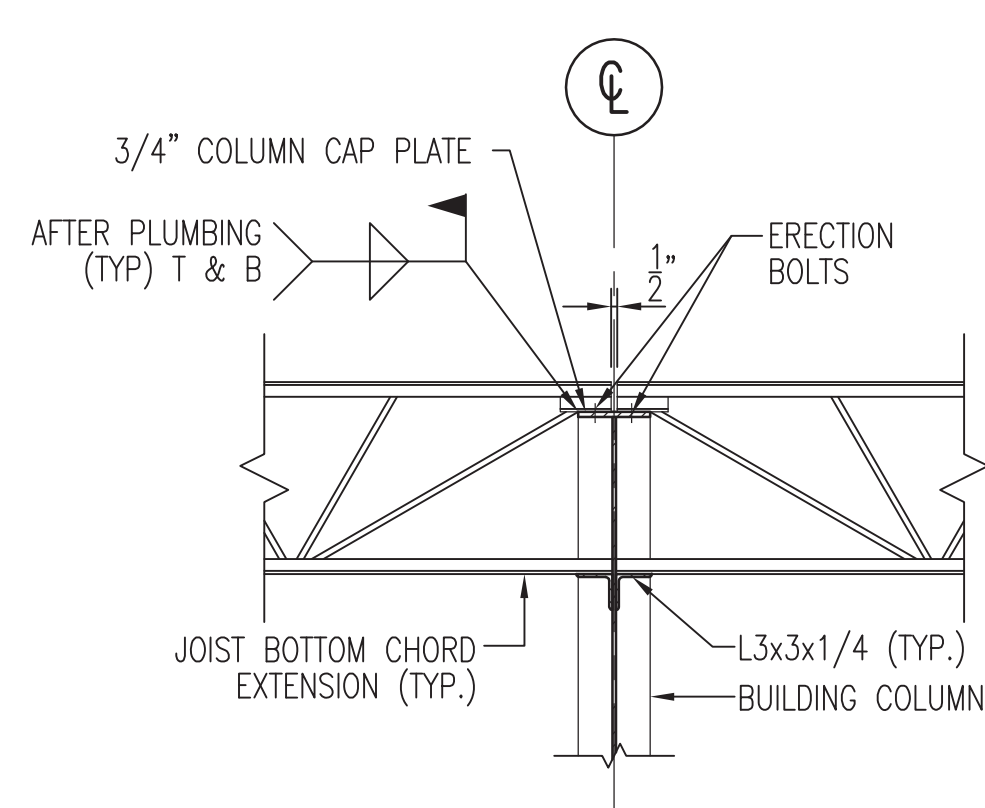
TYPICAL SLIP CONNECTION DETAIL TOP OF COLUMN TO BEAM BOTTOM FLANGE

SCALE: N.T.S.



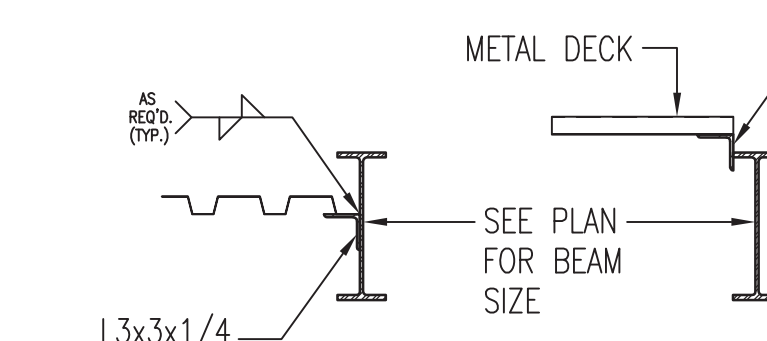
TYPICAL BOTTOM CHORD EXTENSION AT COLUMN FLANGE

SCALE: N.T.S.



TYPICAL BOTTOM CHORD EXTENSION TO COLUMN WEB

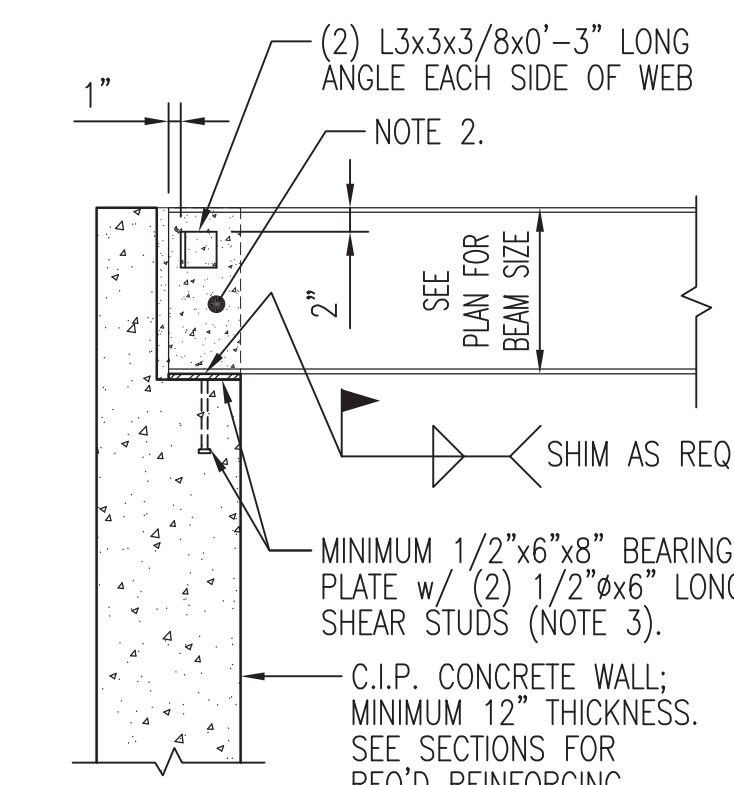
SCALE: N.T.S.



- GENERAL NOTES:
- ELEVATIONS OF ANGLES MAY VARY WITH SLOPE OF FLOOR OR ROOF. COORDINATE TOP OF ANGLE WITH PLANS.
 - STEEL FABRICATOR SHALL PROVIDE DECK SUPPORT ANGLES AS REQUIRED TO ENSURE DIRECT SUPPORT FOR ALL STEEL DECK AT ELEVATIONS ABOVE OR BELOW TOP FLANGE OF PRIMARY SUPPORT BEAMS.
 - COORDINATE LOCATIONS FOR DECK SUPPORT ANGLES WITH DECK SUPPLIER.

TYPICAL DECK SUPPORT ANGLE DETAIL

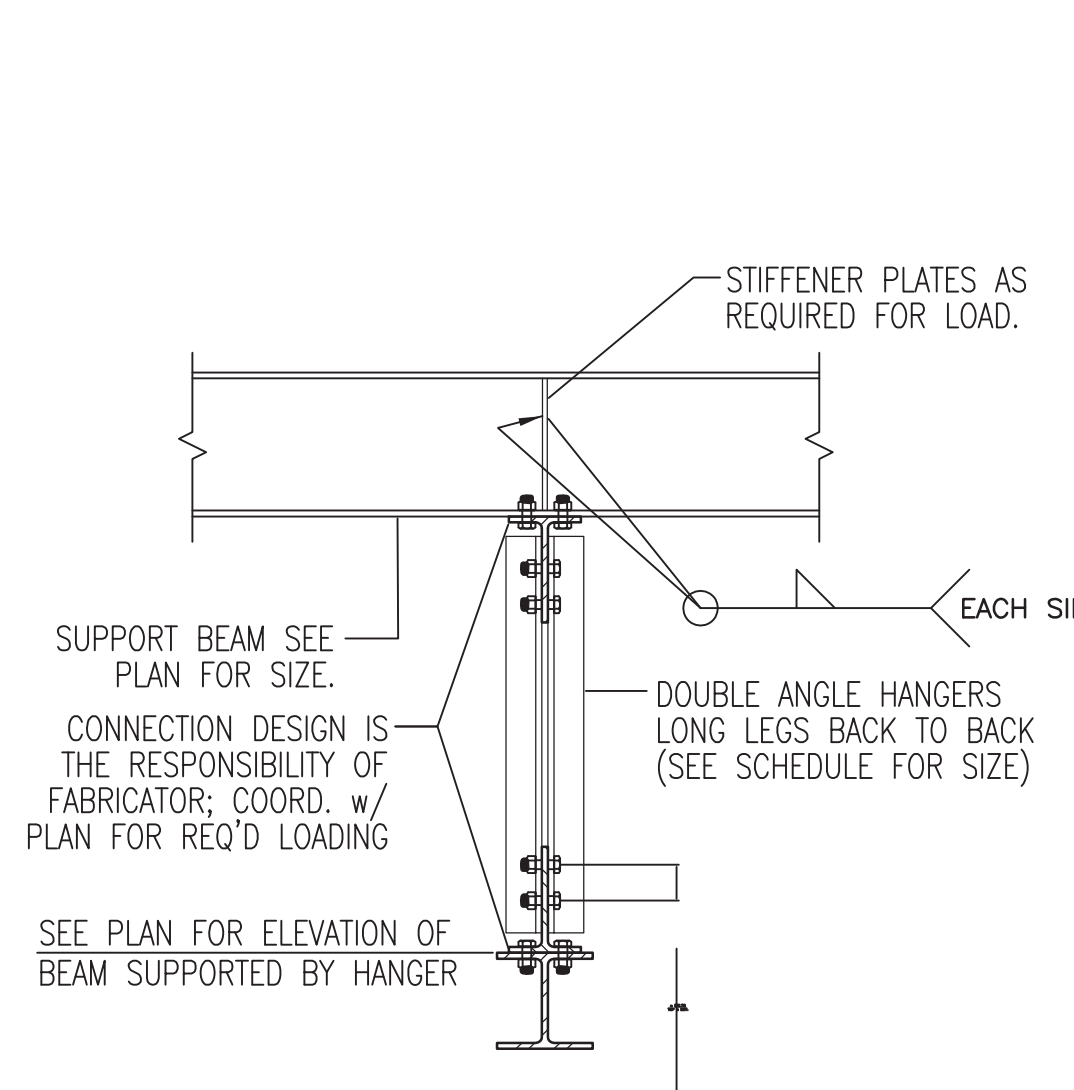
SCALE: N.T.S.



- GENERAL NOTES:
- FORM POCKET/BLOCK-OUT IN C.I.P. CONCRETE WALL FOR BEAM.
 - FILL POCKET SOLID WITH GROUT AFTER BEAM IS SET AND BEFORE BEAM IS LOADED.
 - MINIMUM 6" BEARING. MINIMUM PLATE WIDTH SHOULD BE FLANGE WIDTH + 4" (2" EACH SIDE).

TYPICAL DETAIL OF BEAM BEARING ON NEW CONCRETE WALL

SCALE: N.T.S.



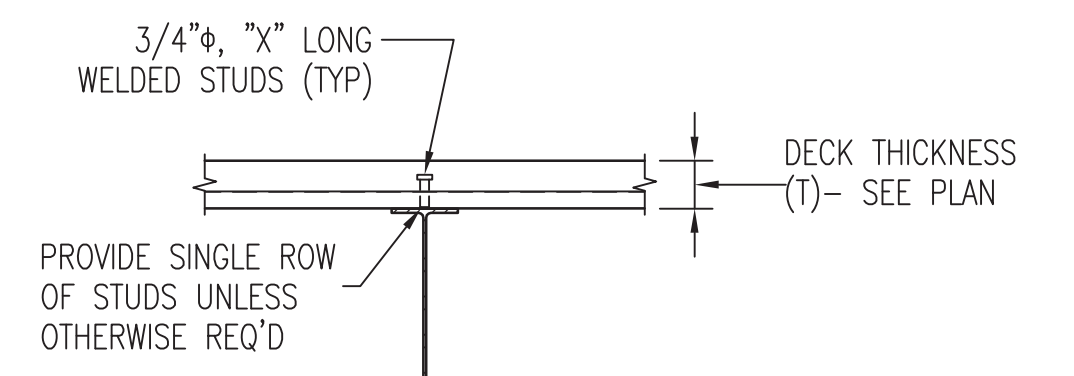
TYPICAL HANGER DETAIL

SCALE: N.T.S.

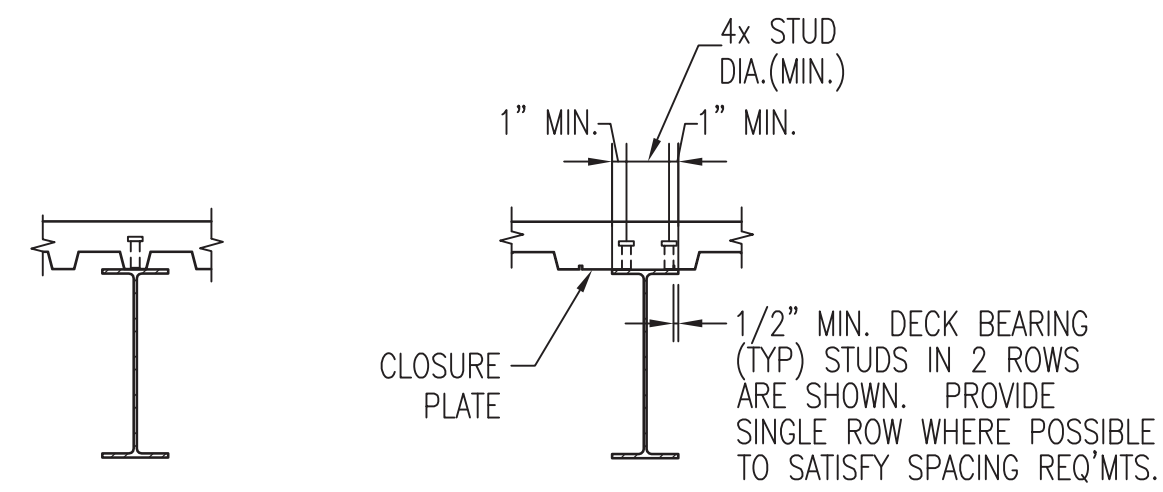
HANGER SCHEDULE		
LOAD (kips)	n-BOLTS (rows)	DOUBLE ANGLES
10	2	(2) L2-1/2x2x1/4
20	2	(2) L2-1/2x2x1/4
30	3	(2) L2-1/2x2x1/4
40	4	(2) L3x2x1/4
50	4	(2) L3x2x5/16
60	4	(2) L3-1/2x2-1/2x5/16
70	4	(2) L3-1/2x3x5/16
80	5	(2) L3-1/2x3x3/8
90	6	(2) L4x3x3/8
100	6	(2) L4x3-1/2x3/8

SEE PLAN FOR HANGER LOAD

BID SET No.	Description	Date



DECK IS PERPENDICULAR OR SKEWED TO BEAM



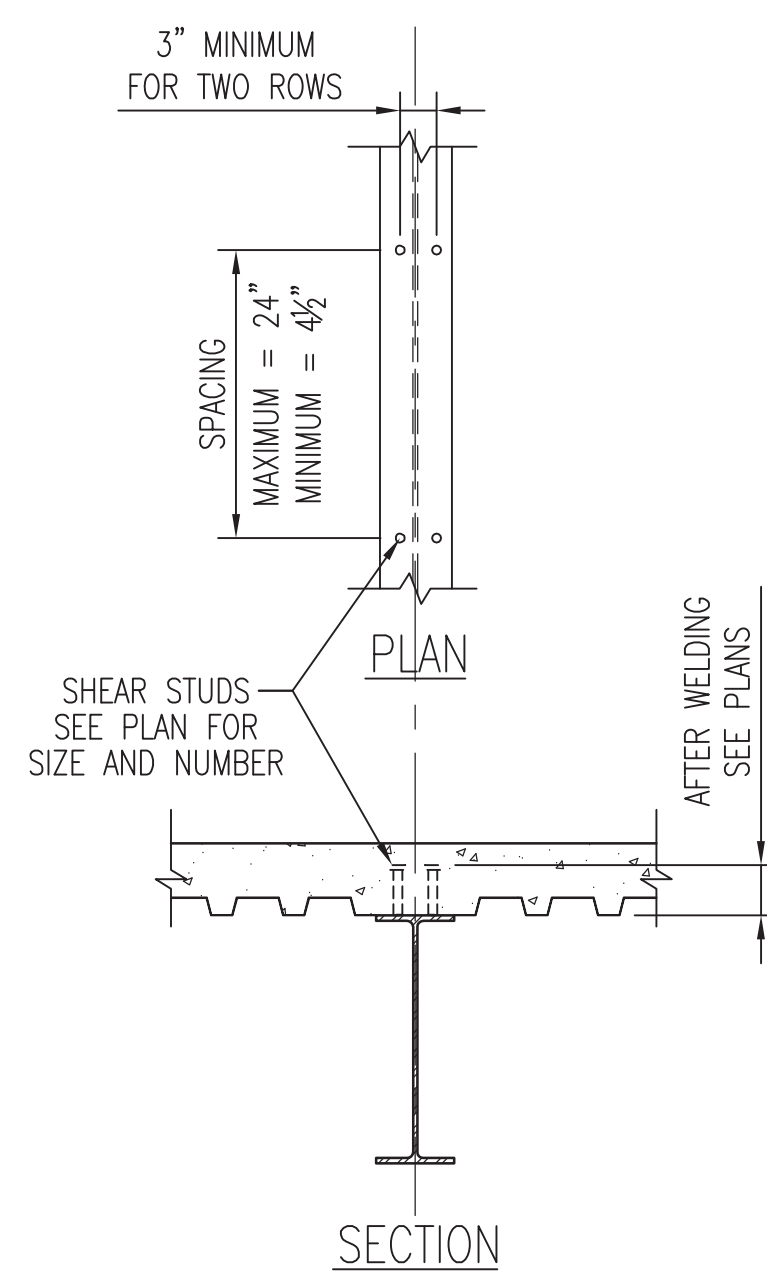
DECK FLUTE ON BEAM
DECK FLUTE NOT ON BEAM

DECK IS PARALLEL TO BEAM

- NOTES:
1. SLAB REINFORCING IS NOT SHOWN FOR CLARITY.

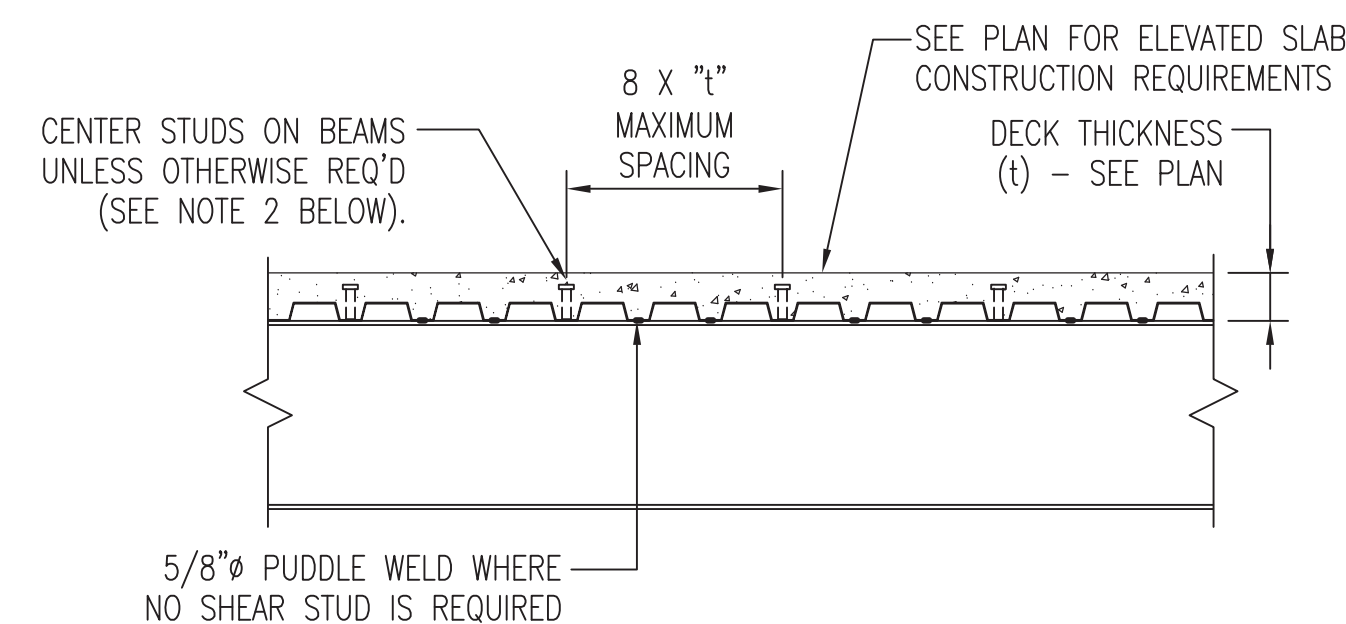
COMPOSITE BEAM SECTION DETAILS

SCALE: N.T.S.



TYPICAL COMPOSITE BEAM STUD PLACEMENT SCHEMATIC

SCALE: N.T.S.



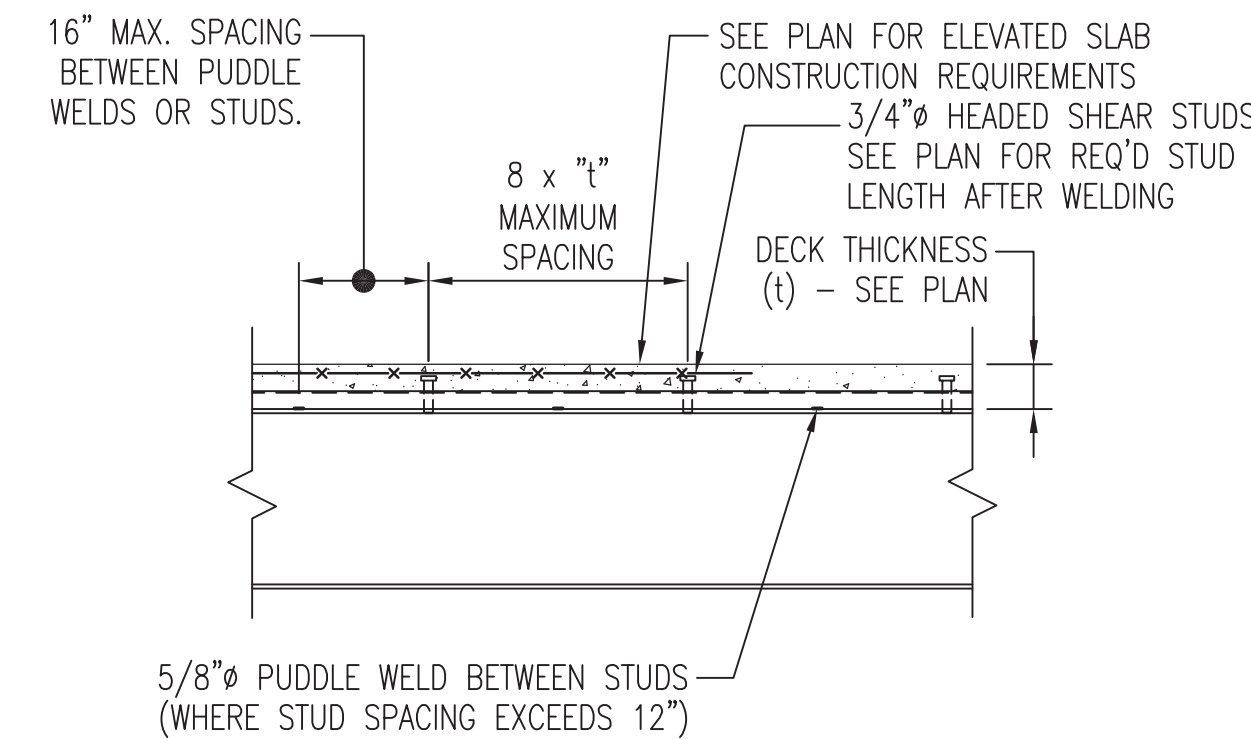
DECK IS PERPENDICULAR OR SKEWED TO BEAM

NOTES:

- SPACE STUDS AS EVENLY AS POSSIBLE IN AVAILABLE DECK FLUTES. WHERE STUD SPACING EXCEEDS THE MAX SPACING ALLOWED, PROVIDE ADDITIONAL STUDS TO SATISFY THE SPACING REQUIREMENTS.
- WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN TWO STUDS IN A SINGLE FLUTE SHALL BE 4 x STUD DIAMETER (MIN.). SEE PLAN NOTES FOR STUD INFORMATION.

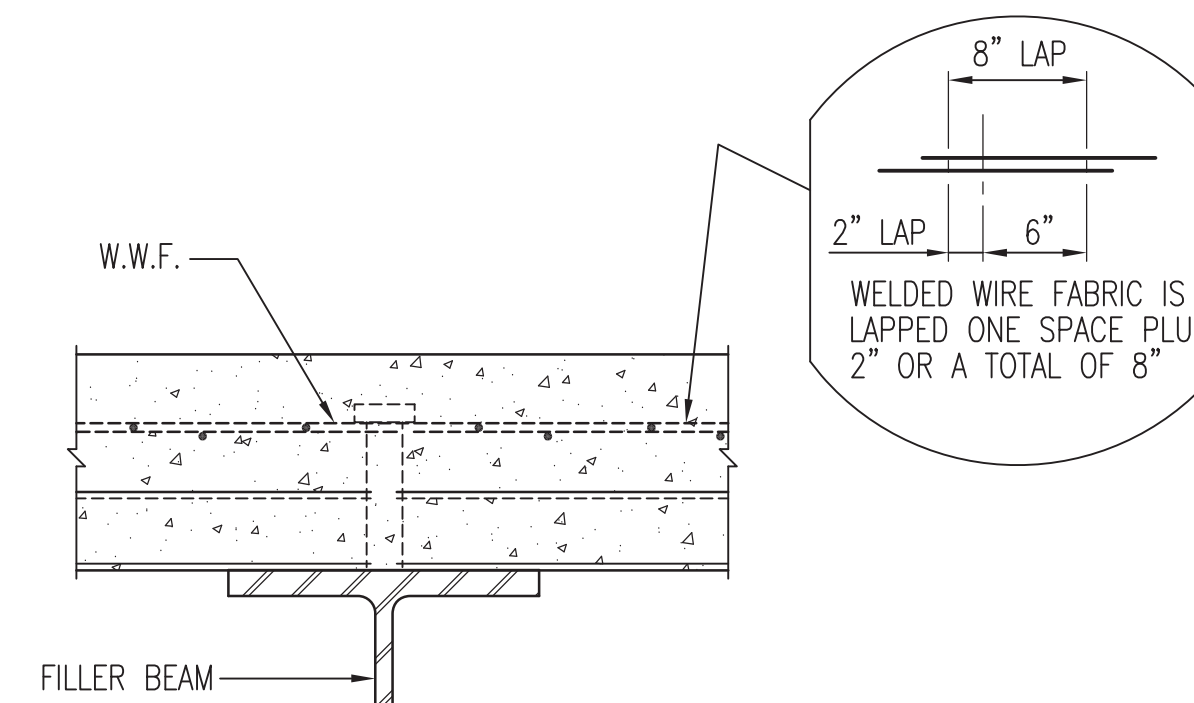
TYPICAL COMPOSITE BEAM ELEVATION 1

SCALE: N.T.S.



TYPICAL COMPOSITE BEAM ELEVATION 2

SCALE: N.T.S.

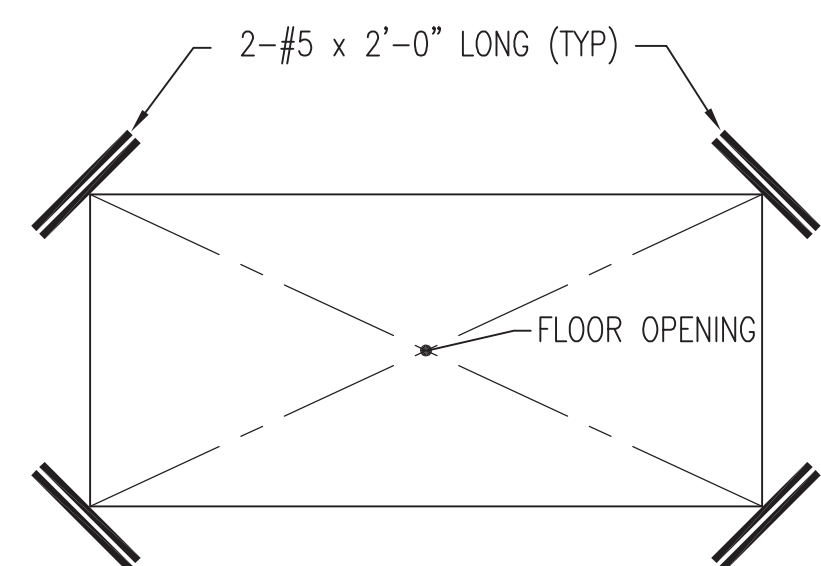


GENERAL NOTES:

- SHEAR STUDS BY STEEL FABRICATOR; COORDINATE w/ PLANS FOR SIZE AND NUMBER.
- REBAR AND WWF BY SLAB CONTRACTOR.
- SEE PLAN FOR SLAB CONSTRUCTION.
- PROVIDE CHAIRS AS REQUIRED TO HOLD WIRE FABRIC IN CORRECT POSITION DURING POURING OPERATION.

TYPICAL COMPOSITE FILLER BEAM DETAIL

SCALE: N.T.S.

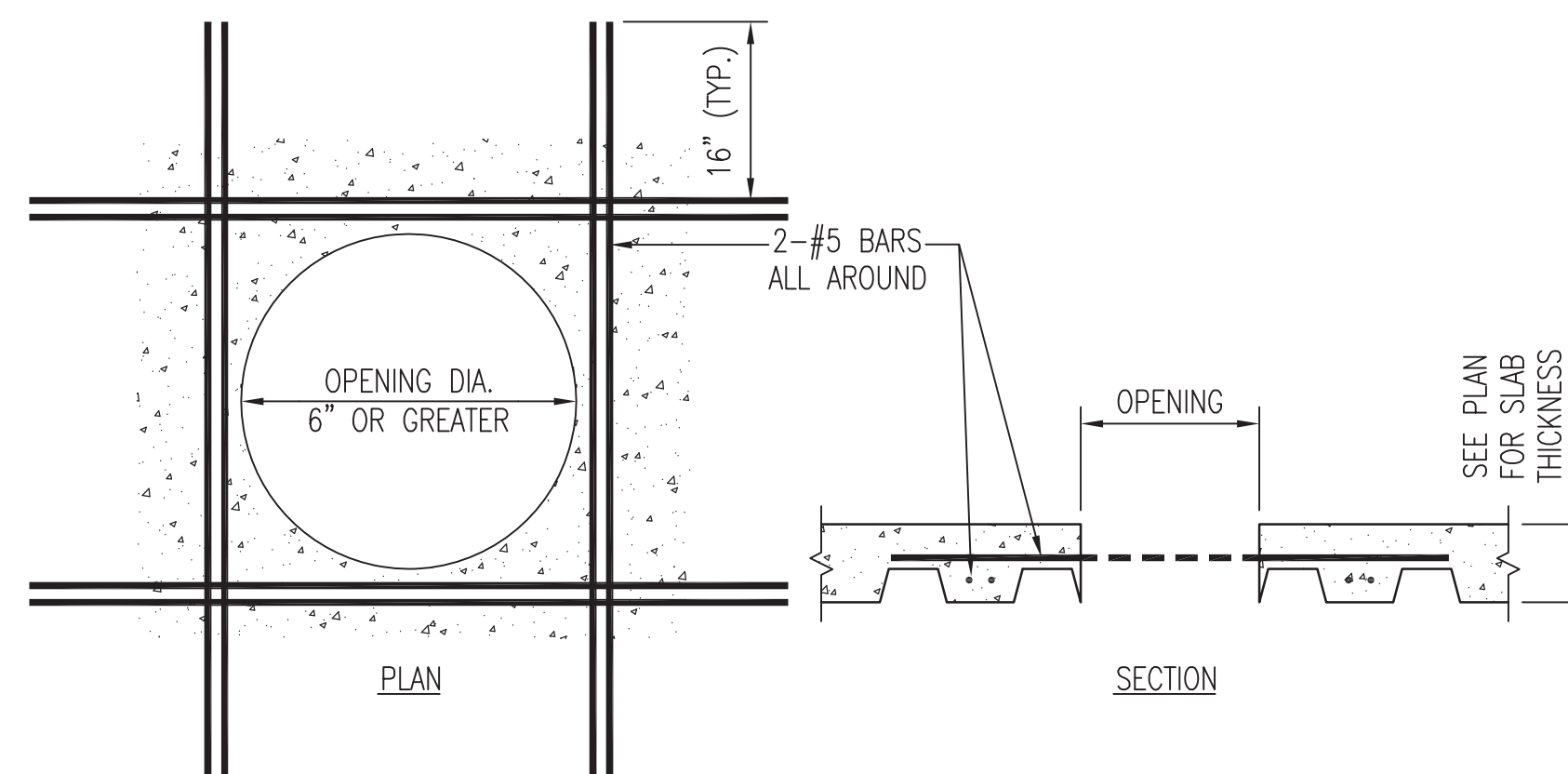


GENERAL NOTES:

- DETAIL APPLIES TO ALL OPENINGS (MECHANICAL, PLUMBING, ELECTRICAL, STAIR ELEVATOR, ETC.); COORDINATE WITH SPECIFIC TRADES FOR REQUIRED OPENING SIZE AND LOCATION.
- COORDINATE WITH STEEL DECK GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING SLAB OPENINGS.

PLAN AT OPENING THROUGH SUPPORTED FLOOR

SCALE: N.T.S.

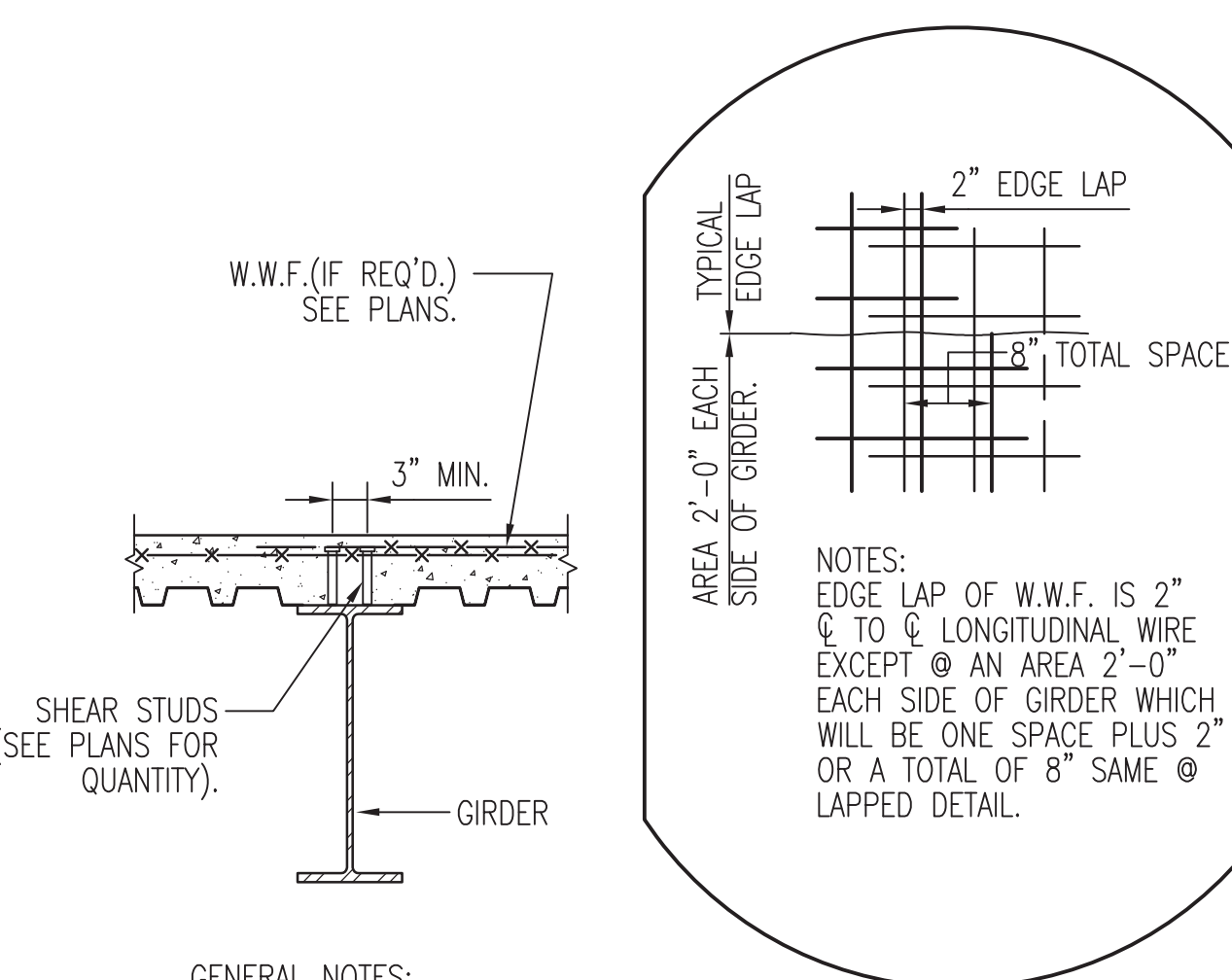


GENERAL NOTES:

- DETAIL APPLIES TO ALL OPENINGS (MECHANICAL, PLUMBING, ELECTRICAL, STAIR ELEVATOR, ETC.); COORDINATE WITH SPECIFIC TRADES FOR REQUIRED OPENING SIZE AND LOCATION.
- COORDINATE WITH STEEL DECK GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING SLAB OPENINGS.

TYPICAL DETAIL AT OPENING THROUGH SUPPORTED SLAB

SCALE: N.T.S.

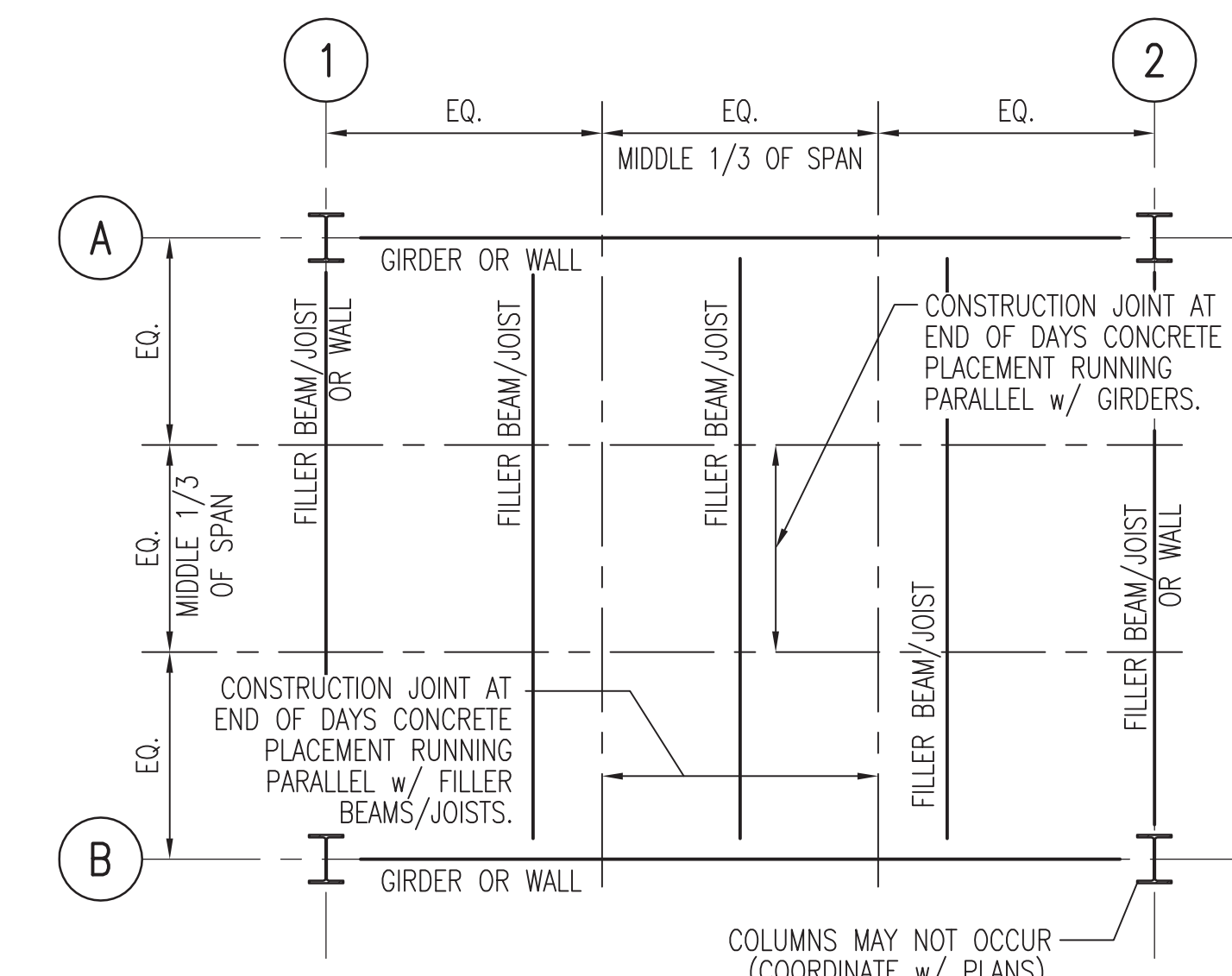


GENERAL NOTES:

- SHEAR STUDS BY FABRICATOR
- CHAIRS AND W.W.F. BY SLAB CONTRACTOR
- SEE PLANS FOR SLAB CONSTRUCTION.
- PROVIDE CHAIRS AS REQUIRED TO HOLD WIRE FABRIC IN CORRECT POSITION DURING POURING OPERATION.

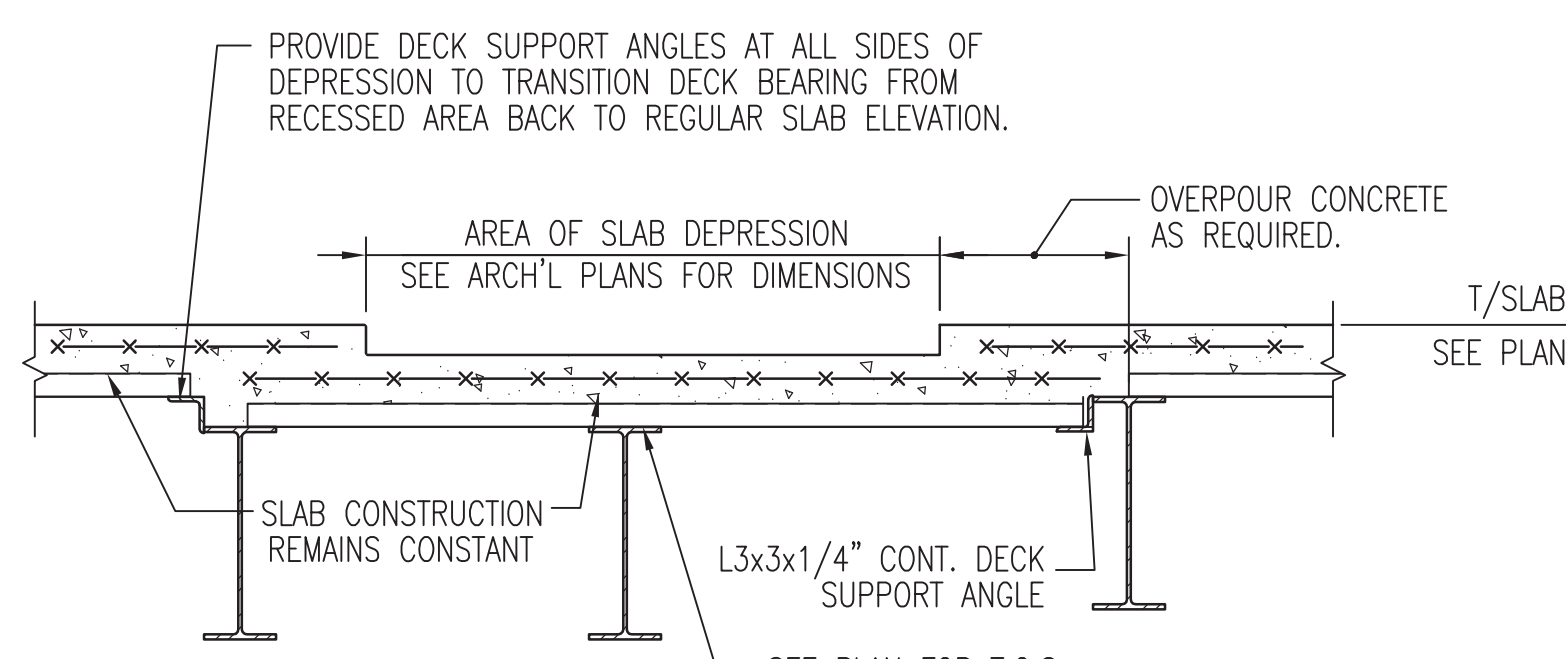
TYPICAL COMPOSITE GIRDER DETAIL

SCALE: N.T.S.



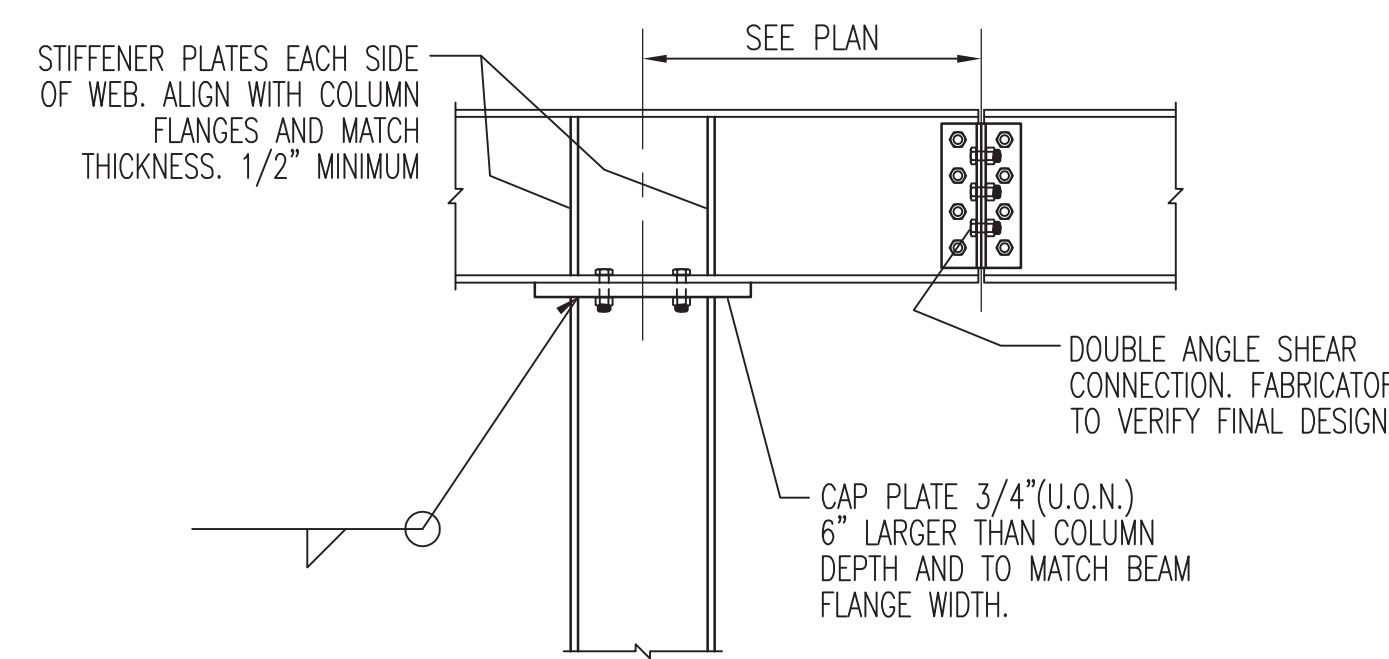
PARTIAL PLAN OF TYPICAL CONSTRUCTION JOINT SCHEMATIC FOR ELEVATED SLAB/FLOOR FRAMING

SCALE: N.T.S.



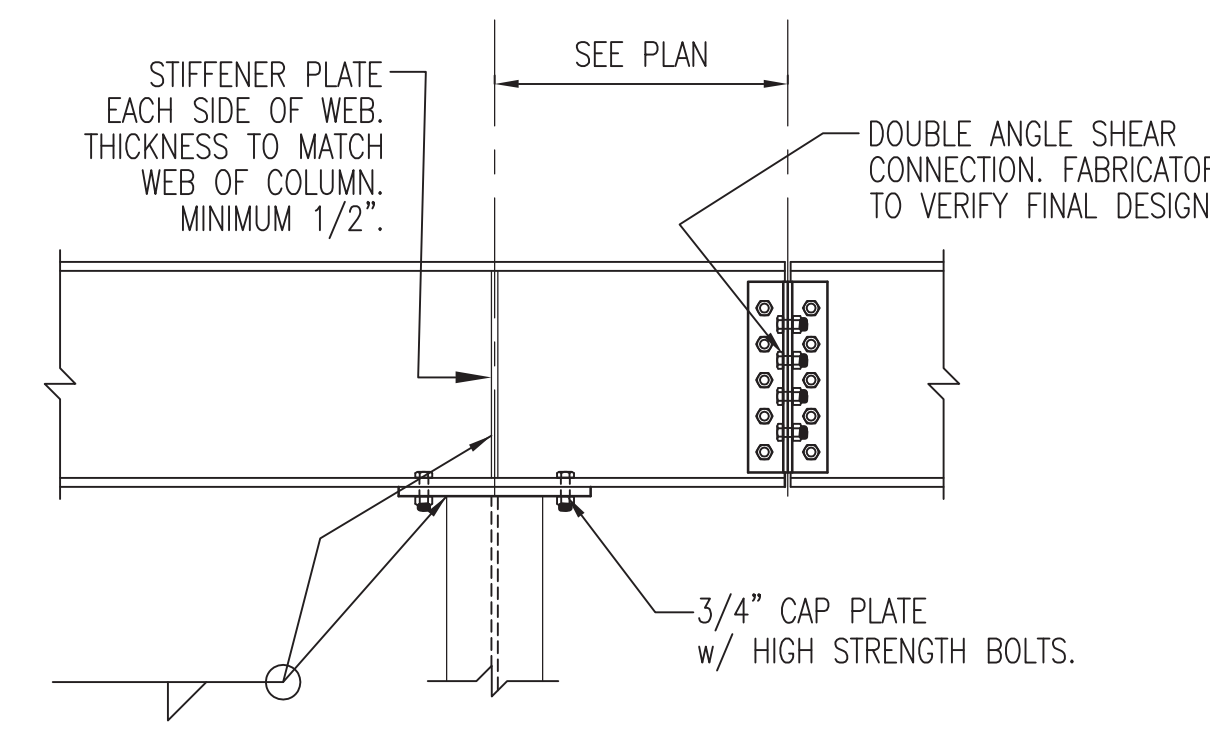
TYPICAL SLAB DEPRESSION

SCALE: N.T.S.



TYPICAL CANTILEVER BEAM AT COLUMN BEAM PARALLEL TO COLUMN WEB

SCALE: N.T.S.



TYPICAL CANTILEVER BEAM DETAIL BEAM PERPENDICULAR TO COLUMN WEB

SCALE: N.T.S.

Name: Marc Bowen, PE	DATE
NJ License Number: 44034	11/21/14
CONFORMED SET	2015/06/12

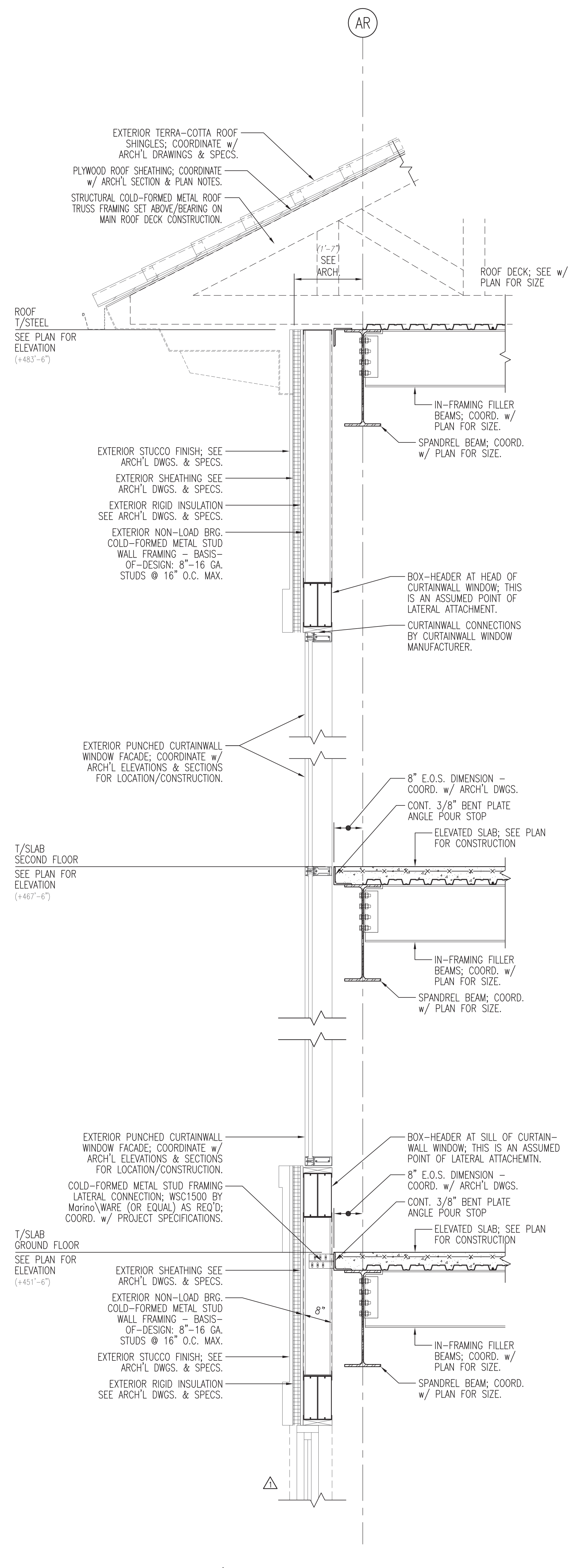
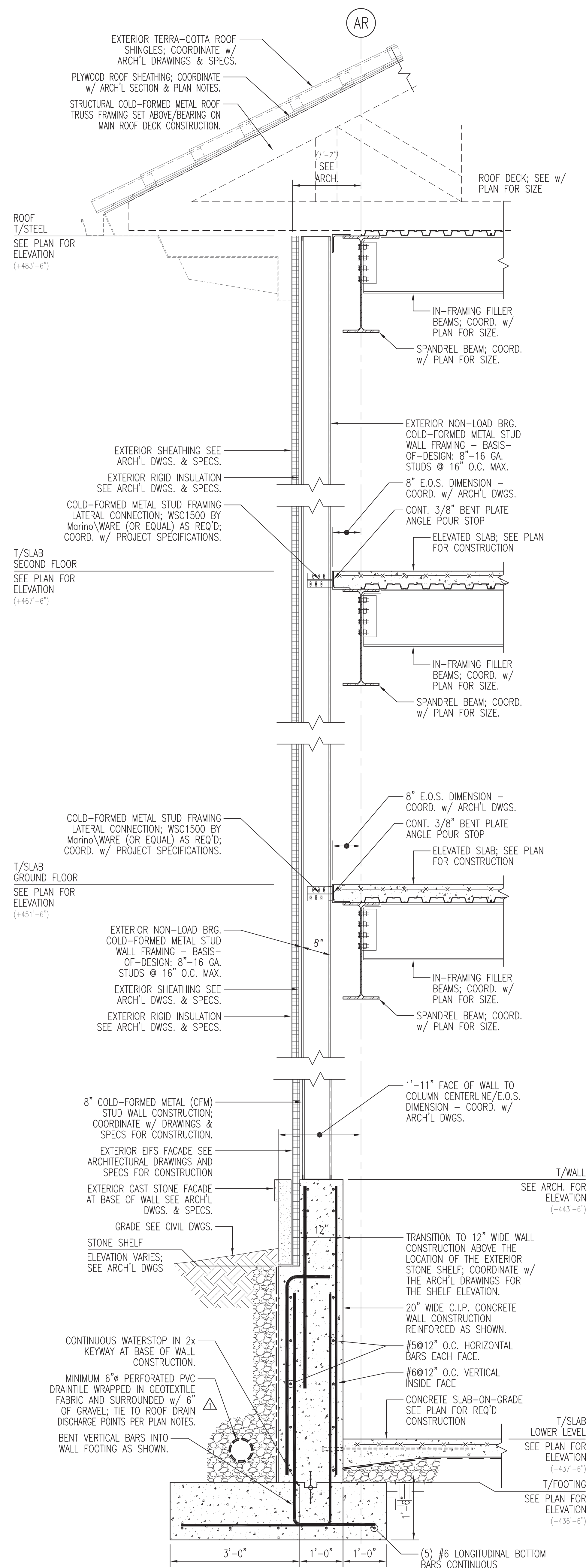
1	ADDENDUM 1	2015/04/03
	BID SET	2015/03/11
No.	Description	Date

Drawing Title:

STEEL FRAMING SECTIONS & DETAILS

Project No.: 003994.02 Checked by: ---

S0502



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