

GENERAL NOTES

- 1. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS SHOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING.

CONCRETE

- 1. ALL WORK SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (AMERICAN CONCRETE INSTITUTE, ACI 301) AND THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), LATEST EDITIONS, UNLESS NOTED OTHERWISE IN THE DRAWINGS OR PROJECT SPECIFICATIONS.

CONCRETE MASONRY

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF TMS 402/ACI 530/ASCE 5: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, LATEST EDITION.

STEEL JOISTS

- 1. OPEN WEB K, KCS, LH AND DLH SERIES JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND LOAD TABLES" AS ADOPTED BY THE STEEL JOIST INSTITUTE.

DESIGN LOADS:

Table with 2 columns: Description and Value. Includes 2018 INTERNATIONAL BUILDING CODE, ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, and BUILDING RISK CATEGORY III.

Table with 2 columns: Description and Value. Includes DESIGN FLOOR LIVE LOADS (40 PSF), CORRIDORS ABOVE FIRST FLOOR (80 PSF), MECHANICAL UNIT LOADS (SEE MECH DWGS), and HANDRAILS, GUARDS AND GRAB BARS (PER 1607.8).

Table with 2 columns: Description and Value. Includes DESIGN DEAD LOADS - NOT INCL. STRUCTURE SELF WEIGHT (15 PSF).

Table with 2 columns: Description and Value. Includes SEISMIC IMPORTANCE FACTOR (1.25), MAPPED SPECTRAL ACCELERATION (0.153), MAPPED SPECTRAL ACCELERATION (0.046), and SEISMIC FORCE RESISTING SYSTEM (CANTILEVERED COLUMN SYSTEMS).

ADDITIONAL NOTES:

- a. THE CONTRACTOR IS CAUTIONED AS TO NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH EXCEED THE DESIGN LIVE LOAD CAPACITIES NOTED.

SHOP DRAWINGS

- 1. DUPLICATION/PHOTOCOPIING OF THESE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWINGS. ALL SECTIONS INCLUDED IN THESE CONTRACT DRAWINGS MAY NOT BE DUPLICATED/PHOTOCOPIED ON ANY SHOP DRAWINGS.

Table with 2 columns: Description and Value. Includes SOIL BEARING CAPACITY OF 2,000 PSF, PLACE EXTERIOR FOOTINGS AND FROST WALLS EXPOSED TO WEATHER AT LEAST 3" BELOW THE ADJACENT FINISHED GRADE TO PROTECT FROM FROST DAMAGE.

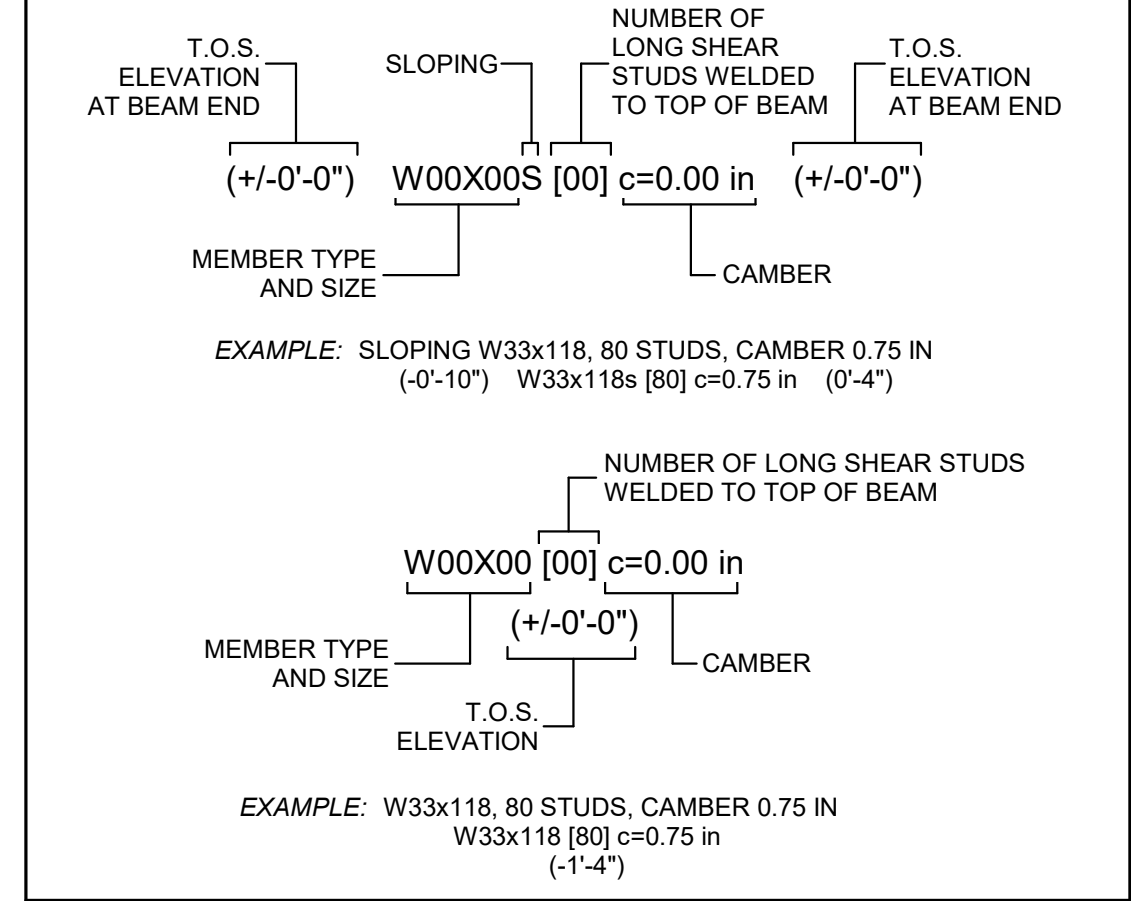
Table with 2 columns: Description and Value. Includes REBAR LAP SPlice LENGTHS for BAR SIZE #3, #4, #5, #6, #7, #8.

Table with 2 columns: Description and Value. Includes CONCRETE MIX DESIGN CRITERIA for EXPOSURE CLASS, MAX. w/c RATIO, MIN. f'c, AIR CONTENT, and CEMENT TYPE.

Table with 2 columns: LOCATION and REINFORCING. Includes BENEATH STEEL BEAMS (2) #5 BARS - (1) PER CORE, INTERIOR NON-LOAD BEARING WALLS (1) #5 BAR, etc.

STRUCTURAL STEEL

- 1. DESIGN, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN.



ABBREVIATION LIST

Table with 2 columns: Abbreviation and Full Name. Includes A.F.F. Above Finish Floor, B.C.X. Both Chord Extension, B.O.F. Bottom of Footing, etc.

REVISIONS

Table with 3 columns: No., Date, Description of Changes. Includes one revision for MIM-00-16.

GENERAL NOTES AND LOADS

PLOT SCALE: As indicated FILENAME: DATE: 02/09/2024

PROJECT 3378.1

S0.1

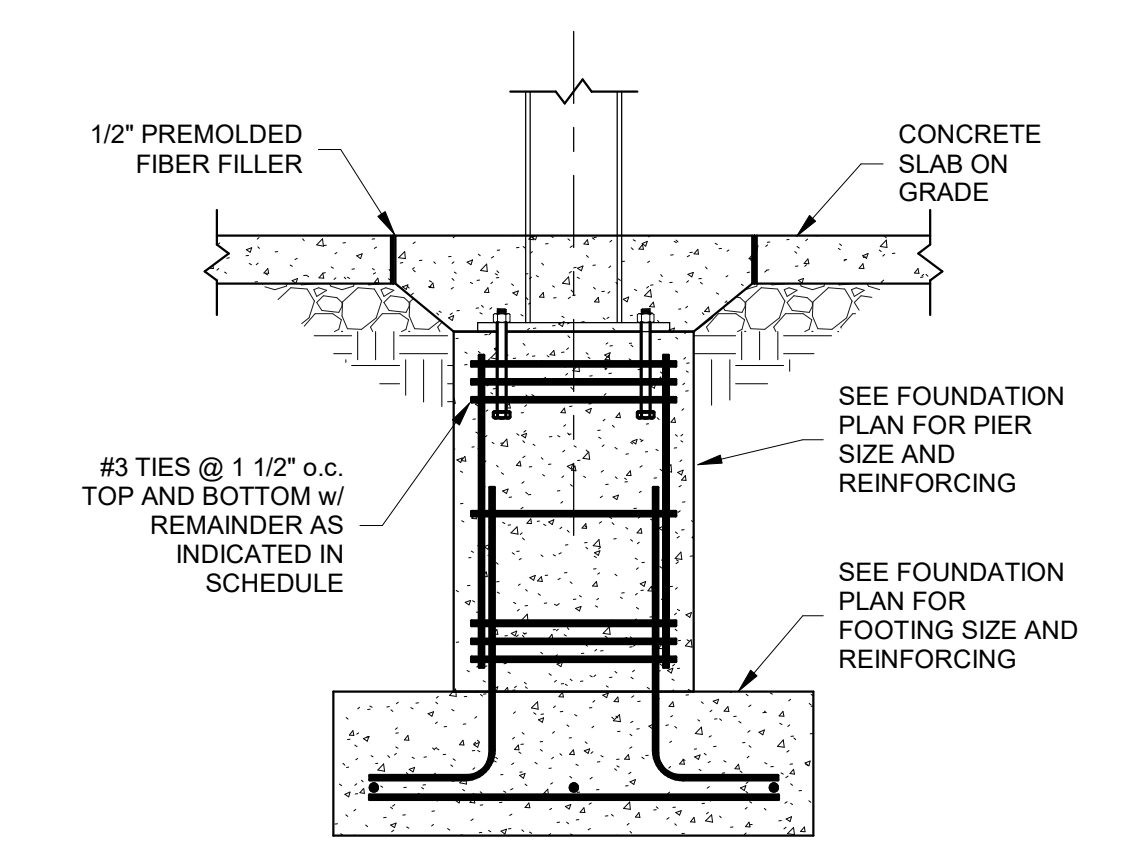
NOT FOR CONSTRUCTION

Foundation Symbol Legend

Top of Pier Marker	T.P. ***
Top of Footing Marker	T.F. ***
Pier Size Marker	(P#)
Column Footing Size Marker	(F#)

Steel Symbol Legend

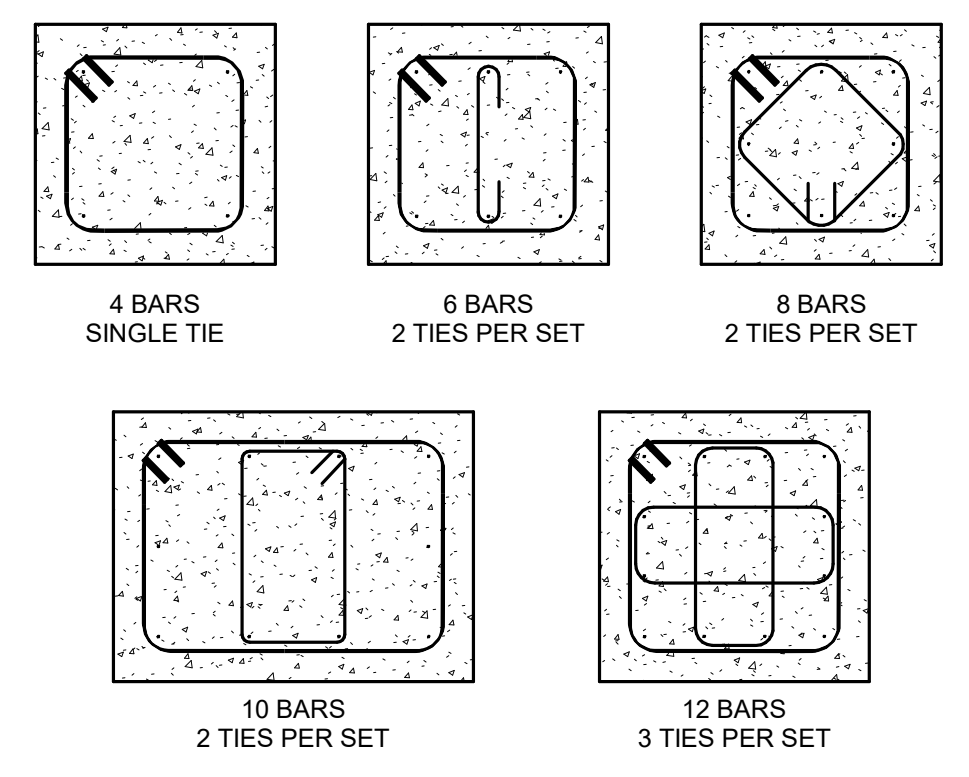
◁	Denotes Beam to Column Cantilever Moment Connection to be Designed by Fabricator for Forces Indicated
▷	Denotes Beam Cantilever - Beam to Extend over top of Column Moment Connection to be Designed by Fabricator for Forces Indicated



Typical Pier Detail
 SCALE: N.T.S.

Schedule - Square Concrete Pier

MARK	SIZE	VERTICAL BARS	TIES
P-16	16"	(8) #6	(2) #3 @ 12" o.c.

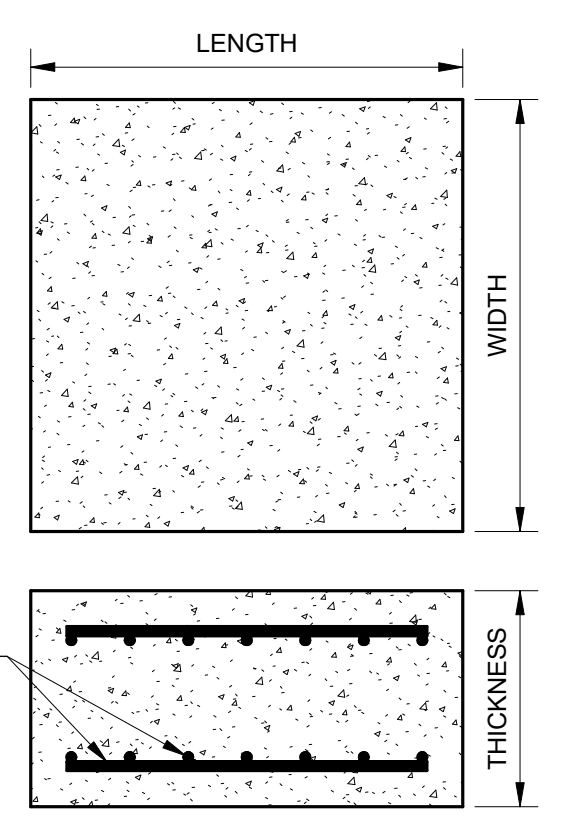


- NOTES:
 1. ALL TIE SIZES TO BE (3) - #3 BARS AT 1 1/2" o.c. (T&B) REMAINDER @ 12" o.c.
 2. SEE FOUNDATION PLAN FOR PIER SIZES

Square and Rectangular Concrete Pier Schedule
 SCALE: N.T.S.

Schedule - General Column Footing

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING
GF2.0x3.0	2'-0"	3'-0"	1'-0"	#5 @ 12" o.c. E.W. T&B



- NOTES:
 1. REINFORCING BARS SHALL HAVE 3" MINIMUM COVER ON ALL SIDES.
 2. COLUMNS SHALL BE ATTACHED ACCORDING TO BASE PLATE SCHEDULE INFORMATION.
 3. SEE BASE PLATE DETAILS FOR MORE INFORMATION.

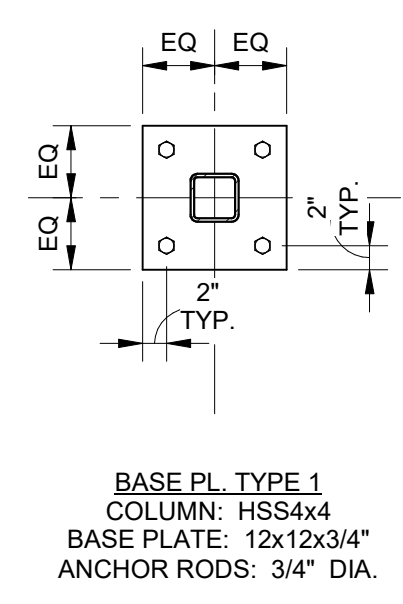
Column Footing Schedule Detail
 SCALE: N.T.S.

COLUMN SCHEDULE

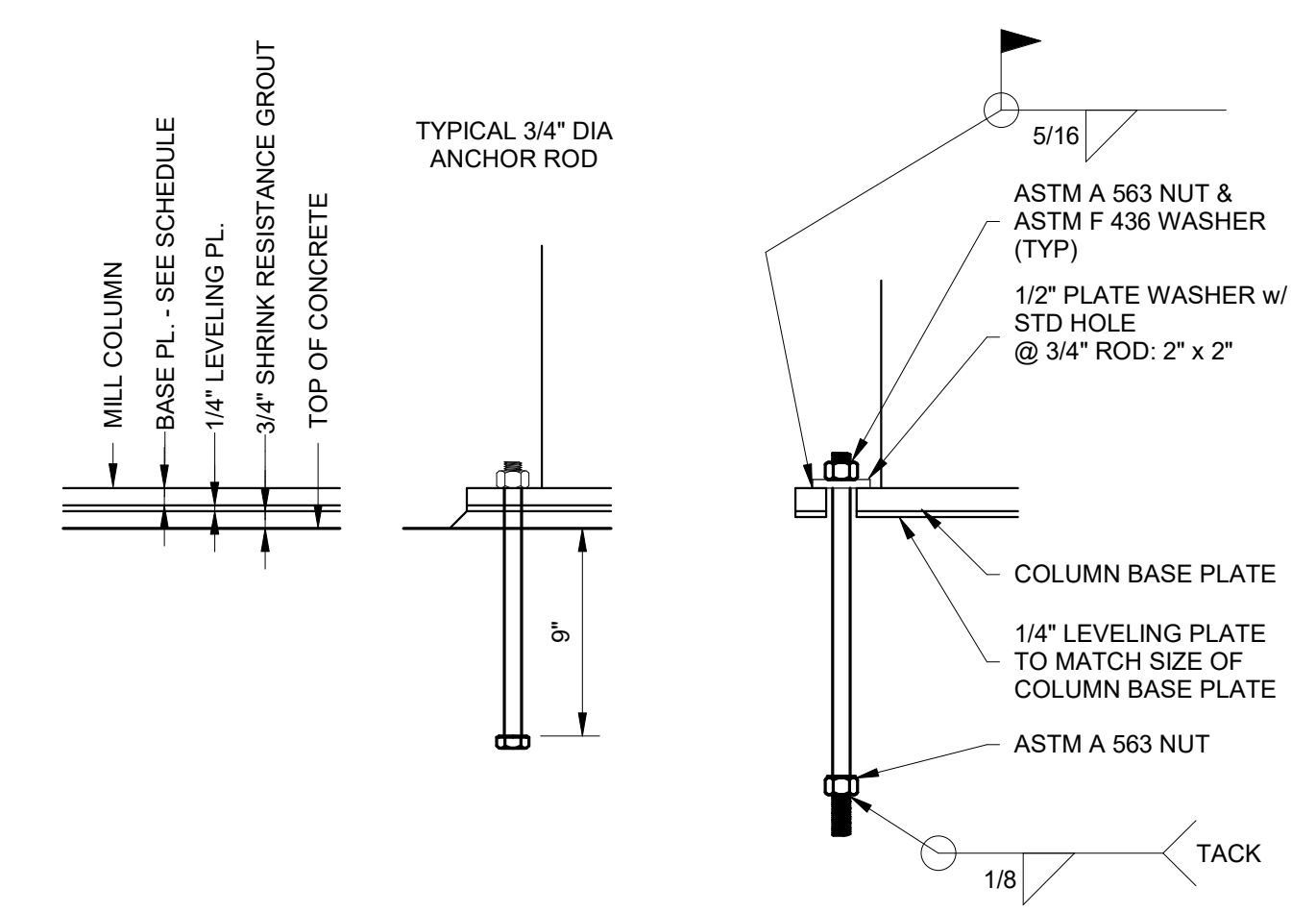
FLOOR	MARK	COLUMN SIZE	BASE PLATE TYPE
Second Floor	A-1, A-2	HSS4x4x3/8	Base Plate : Type 1
First Floor	B-1, B-2	HSS4x4x3/8	Base Plate : Type 1

Schedule - Column Base Plate

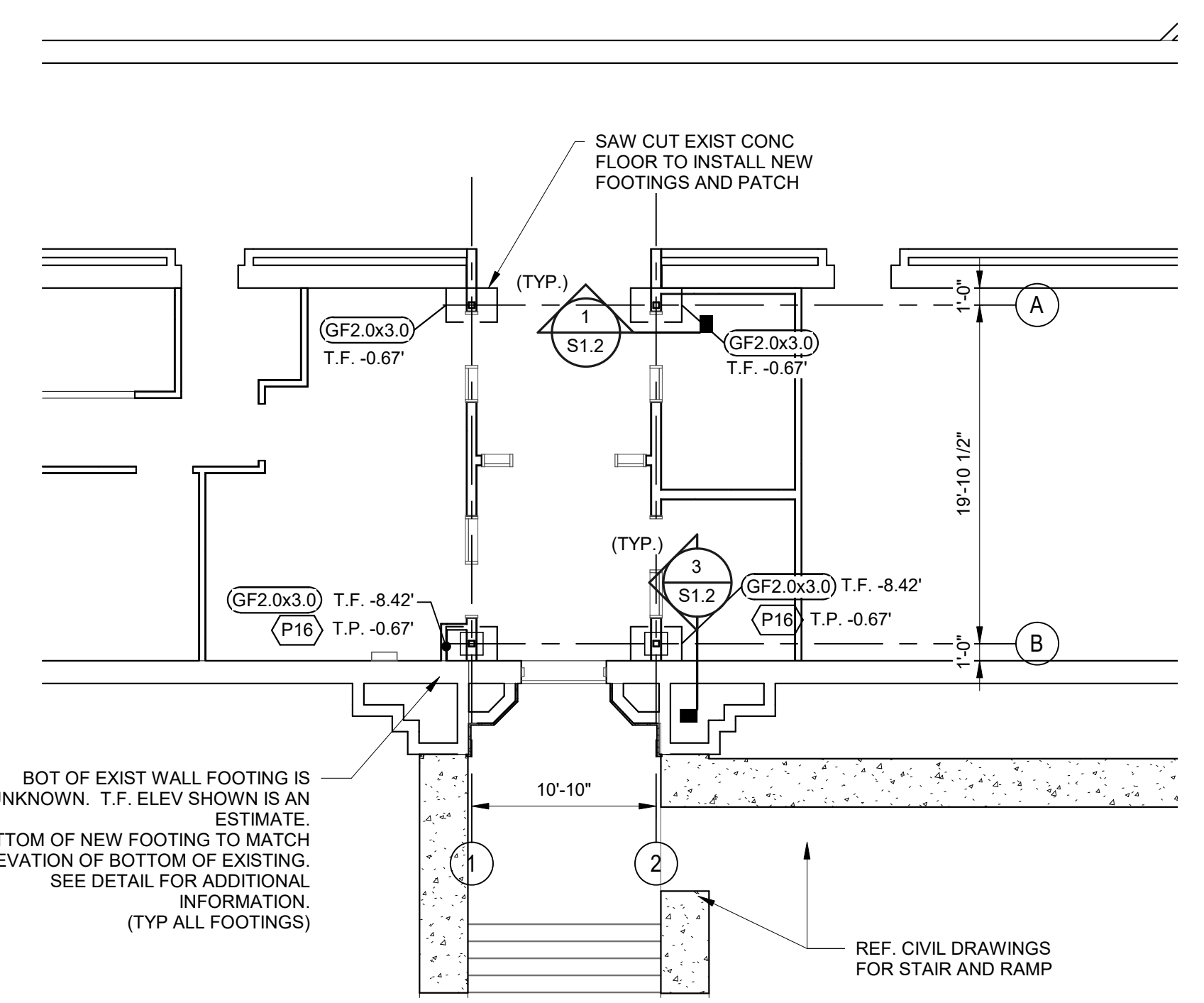
MARK	COLUMN SIZE	BASE PLATE TYPE
A-1	HSS4x4x3/8	Base Plate : Type 1
A-2	HSS4x4x3/8	Base Plate : Type 1
B-1	HSS4x4x3/8	Base Plate : Type 1
B-2	HSS4x4x3/8	Base Plate : Type 1



Base Plate Types
 SCALE: N.T.S.

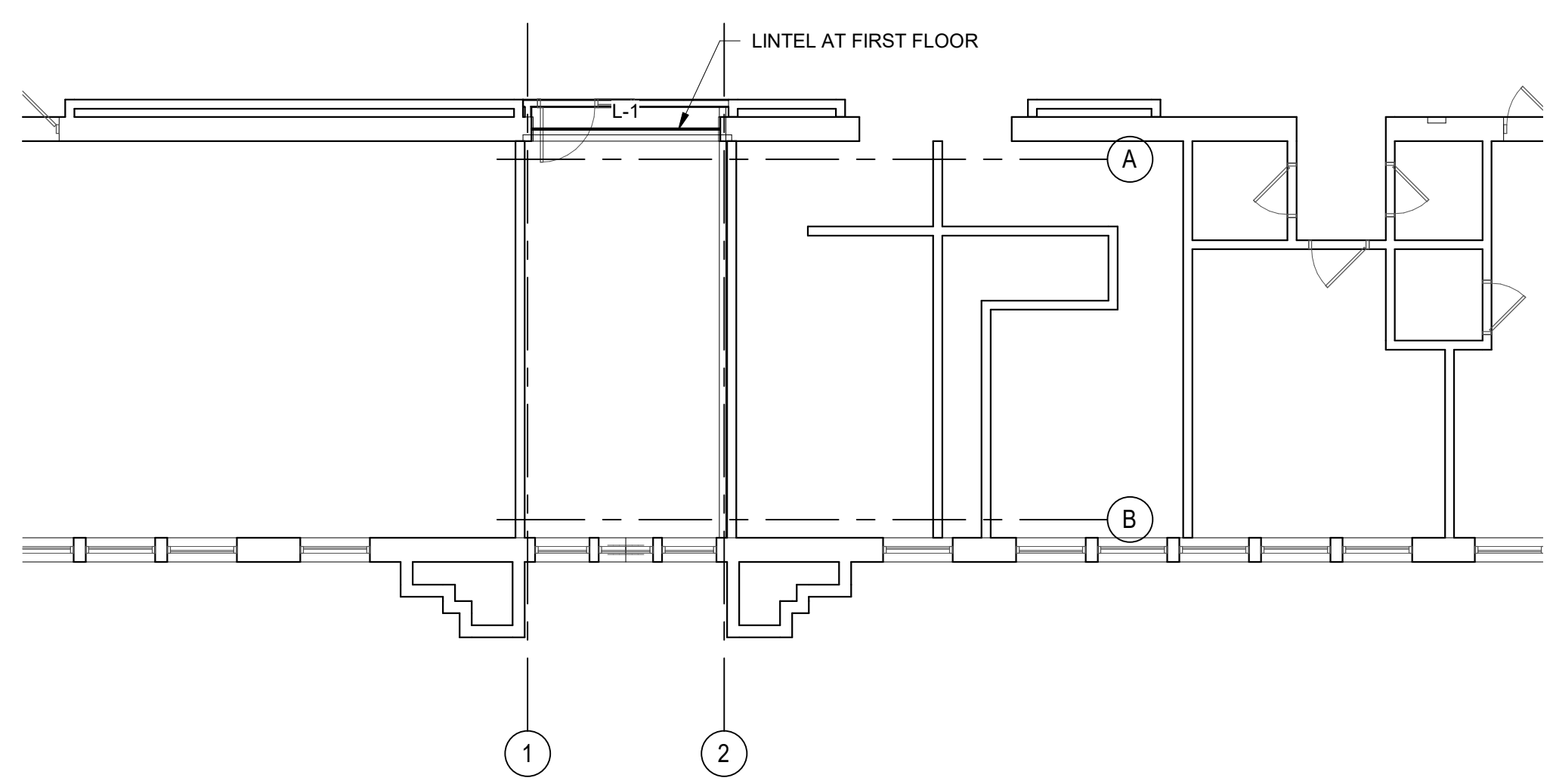


Anchor Rods Details
 SCALE: N.T.S.

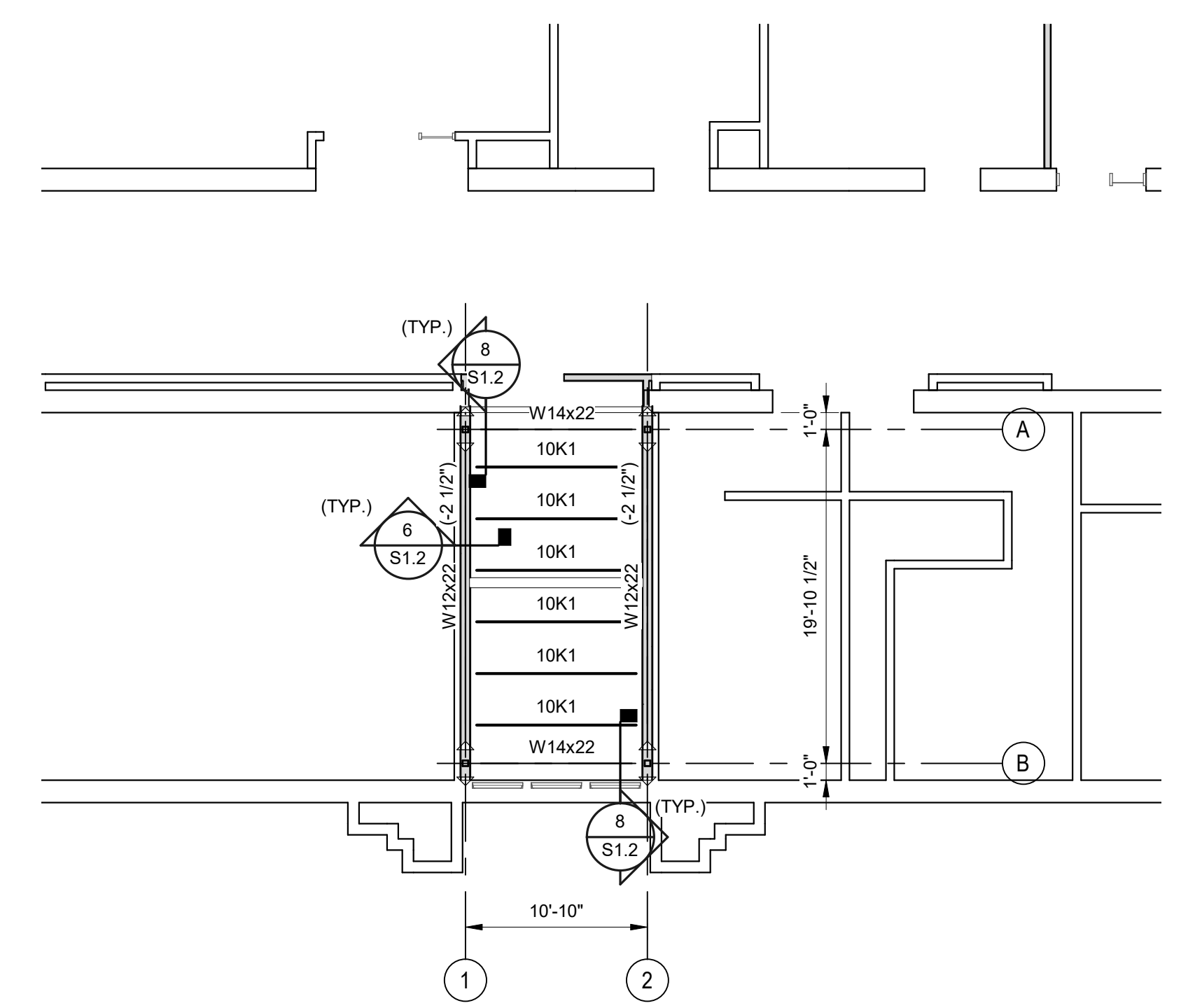


Foundation Plan
 SCALE: 1/8" = 1'-0"

- NOTES:
 1. FINISH FLOOR ELEVATION = 0'-0"



Partial Plan - Lintels
 SCALE: 1/8" = 1'-0"



Partial Second Floor Framing Plan
 SCALE: 1/8" = 1'-0"

- NOTES:
 1. FINISH FLOOR ELEVATION (U.N.O.): 14'-0"
 2. TOP OF STEEL ELEVATION (U.N.O.): 13'-8"
 3. VARIATIONS IS TOP OF STEEL ELEVATION (T.O.S.) SHALL BE NOTES AS (+/- 0'-0")
 4. PROVIDE CONTINUOUS 1/4"x1/4" ANGLE AT ALL SLAB EDGES AND OPENINGS, UNLESS NOTED OTHERWISE. SLAB EDGE ANGLE MUST OVERLAP FLOOR FRAMING BY A MINIMUM OF 2".
 5. SECOND FLOOR DECK TO BE AS FOLLOWS:
 - 4" CONCRETE ON 1-1/2" COMPOSITE METAL DECK.
 - PROFILE: VLI
 - THICKNESS: 20 GA.
 - FINISH: GALVANIZED
 - SLAB REINFORCEMENT: 66-W2.9xW2.9
 - MAX FRAMING SPACING = 3'-0"

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS FOR THE ENTIRE PROJECT BEFORE PROCEEDING WITH THE WORK.

REVISIONS

NO.	DATE	NAME	DESCRIPTION OF CHANGES

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
 401 EAST WINDING HILL ROAD
 MECHANICSBURG PA 17055
 717-458-0272

TOWSON, MARYLAND
 CHARLOTTEVILLE, VIRGINIA
 WHITE SULPHUR SPRINGS, WEST VIRGINIA

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PALMERTON AREA SCHOOL DISTRICT
 S.S. PALMER ELEMENTARY SCHOOL
 SECURITY VESTIBULE & RENOVATIONS
 298 LAFAYETTE AVENUE
 PALMERTON, PA 18071

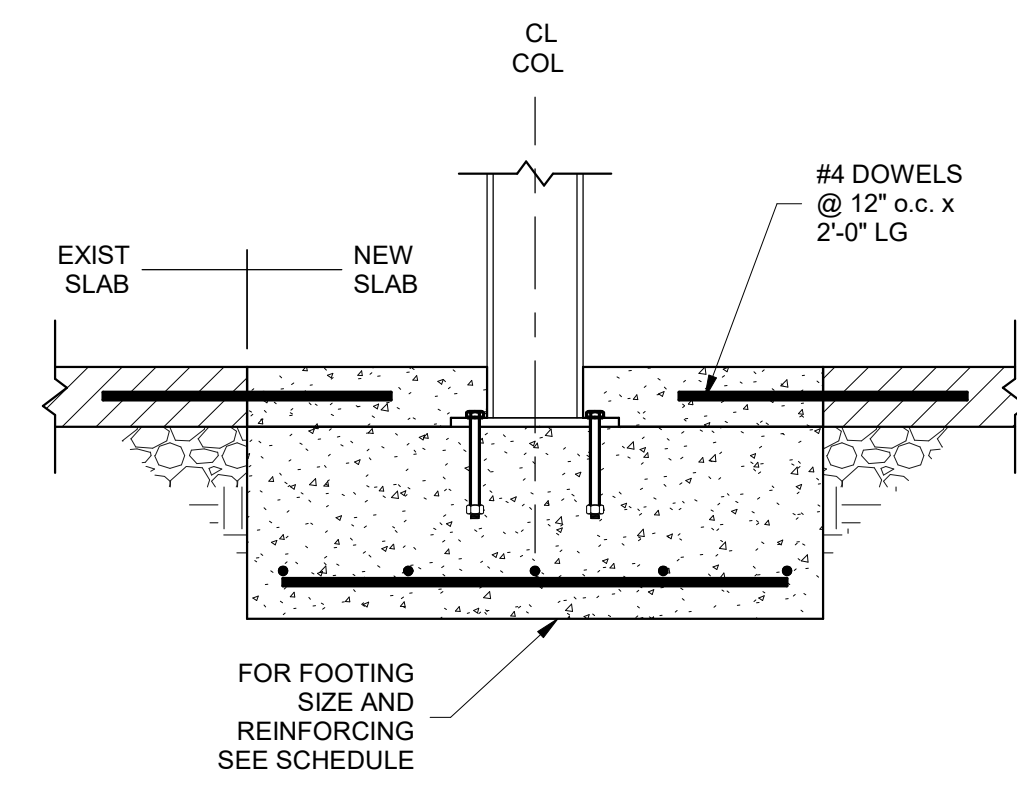


FOUNDATION AND FRAMING PLANS

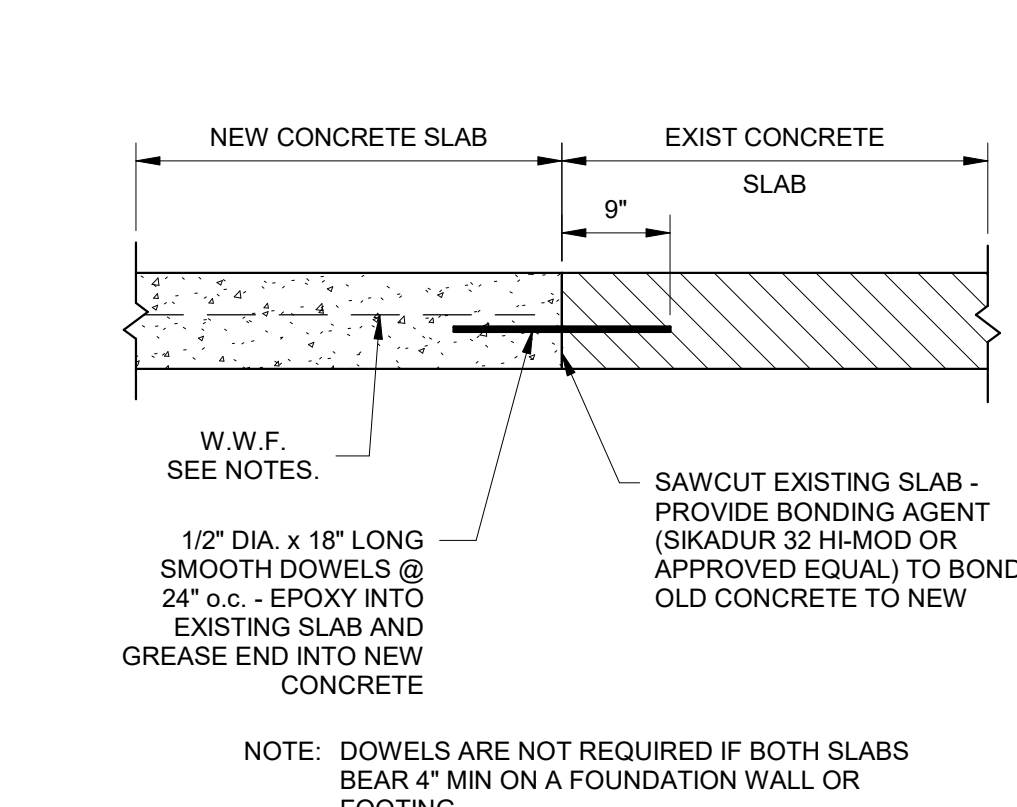
PLOT SCALE: As indicated
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 DATE: 02/09/2024

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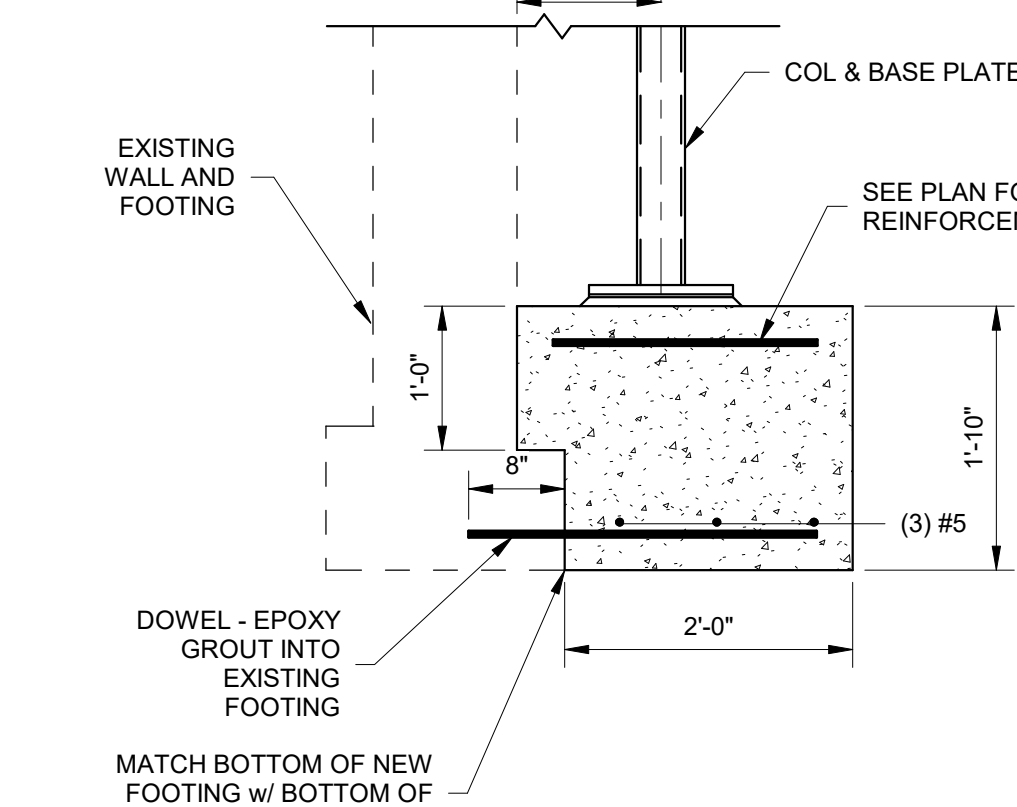
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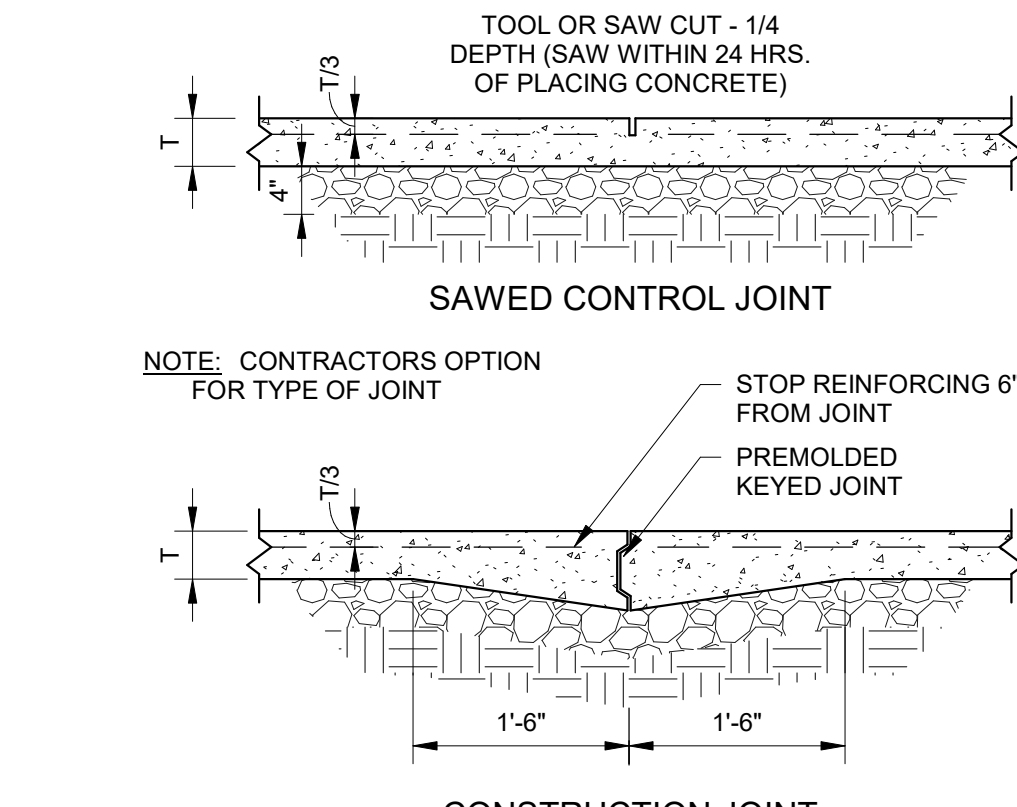
1 Typical Interior Column Footing at Exist Slab
 SCALE: 3/4" = 1'-0"



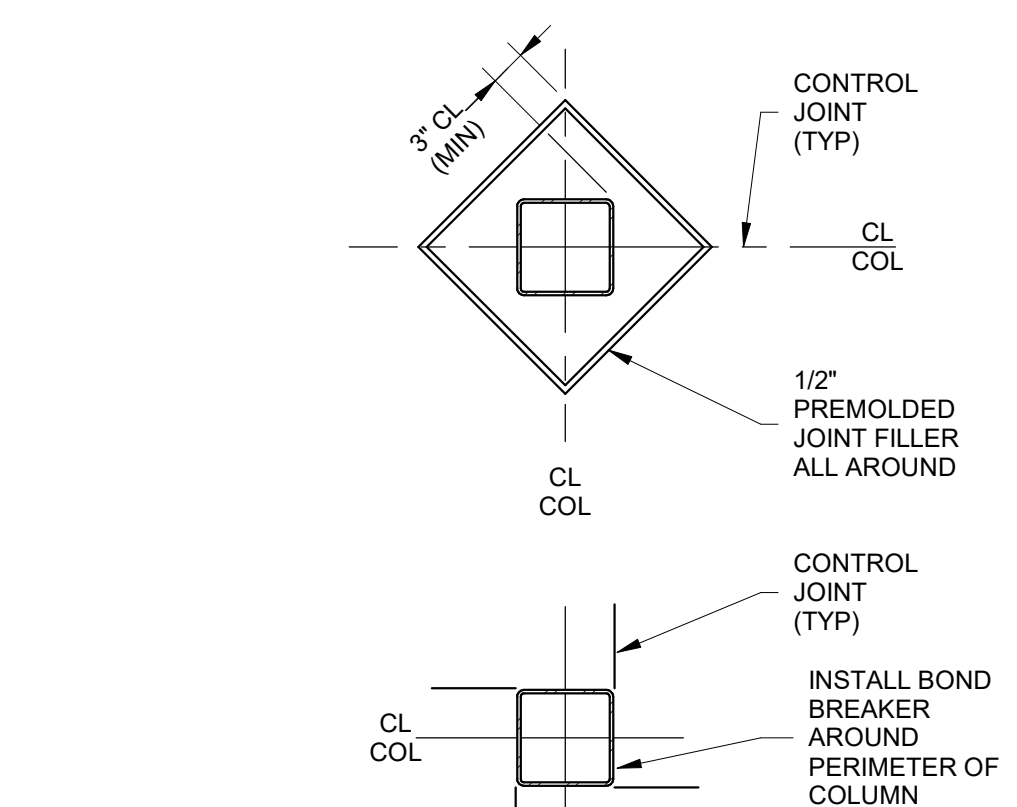
2 Typical New to Existing Slab
 SCALE: 3/4" = 1'-0"



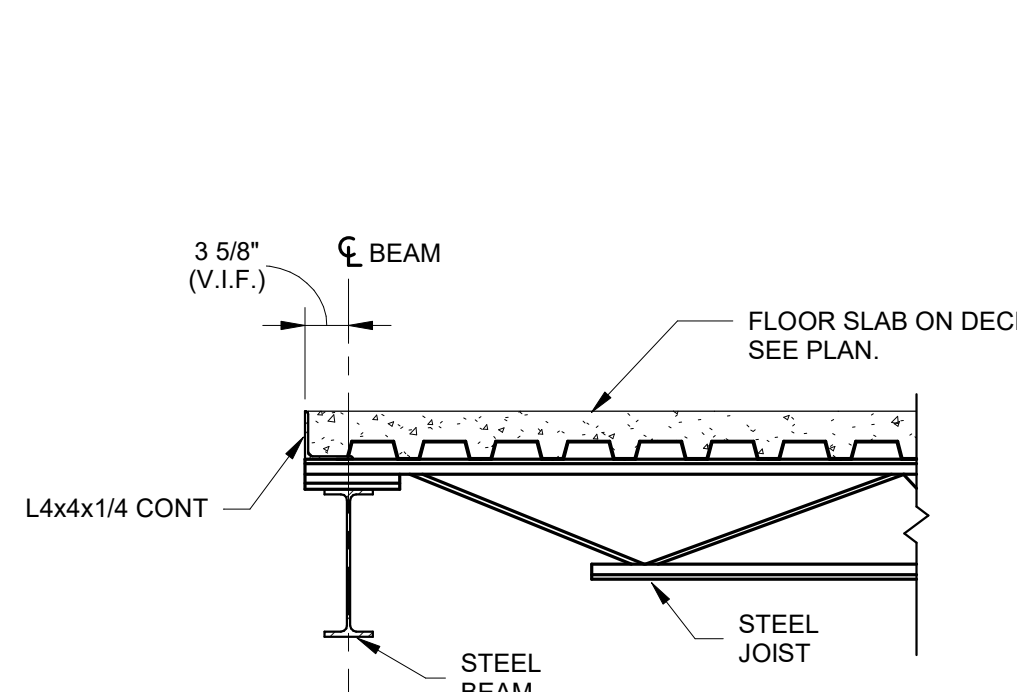
3 Typical Detail Of New Footing Adjacent To Existing
 SCALE: 3/4" = 1'-0"



4 Typical Crack Control Joints
 SCALE: 3/4" = 1'-0"

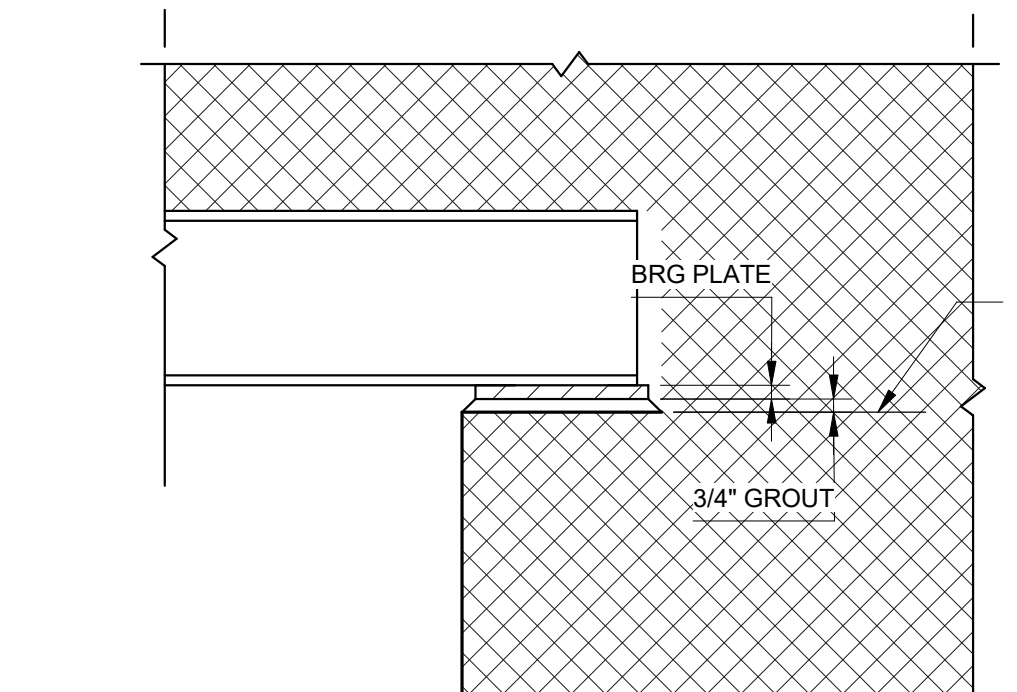


5 Typical Isolation Joint Details
 SCALE: 3/4" = 1'-0"

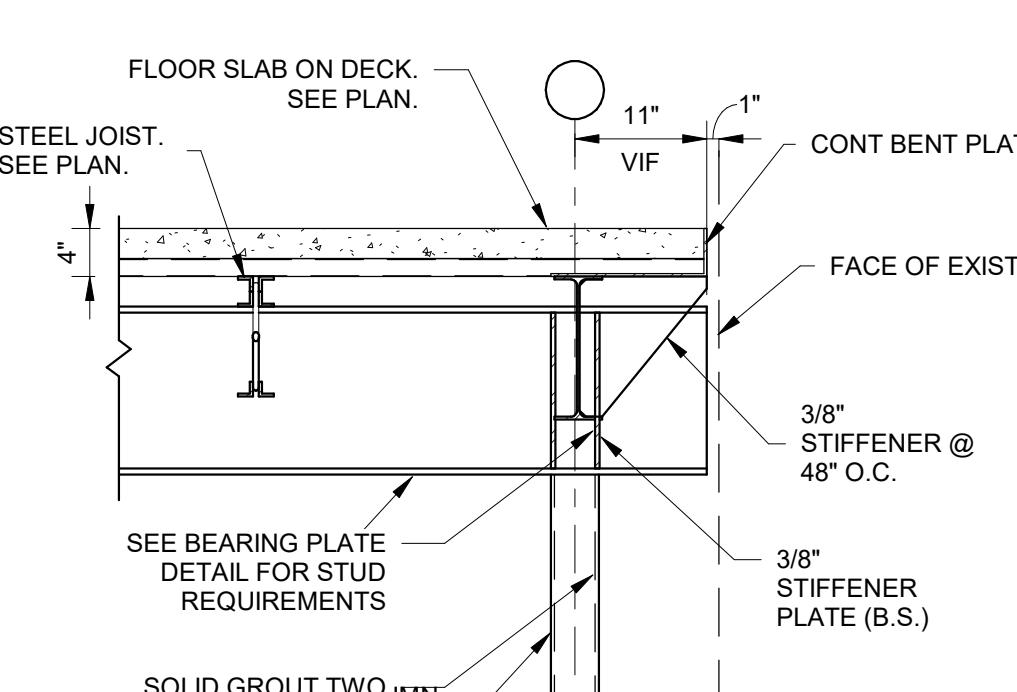


NOTES:
 1. JOIST CONNECTION TO BEAM SHALL BE BY THE JOIST MANUFACTURER. PROVIDE SLOTTED HOLES FOR BOLTED CONNECTIONS. STRUCTURAL STEEL FABRICATOR TO COORDINATE BOLTED CONNECTION LOCATIONS WITH JOIST MANUFACTURER.

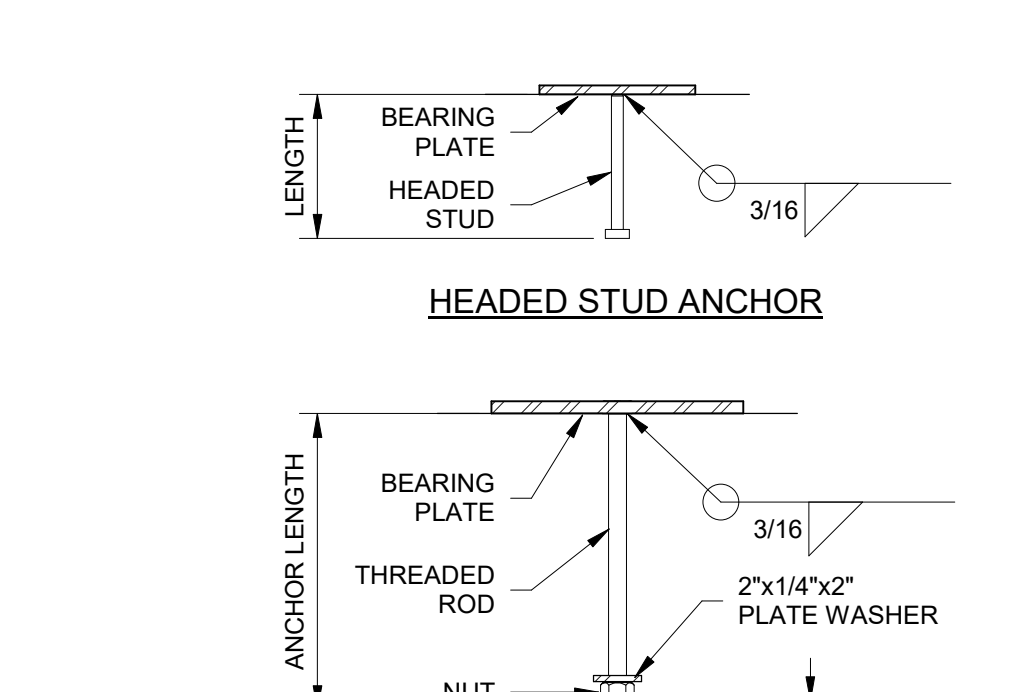
6 Typical Single Joist Bearing on Beam
 SCALE: 3/4" = 1'-0"



7 Typical Lintel Bearing On Exist CMU
 SCALE: 3/4" = 1'-0"



8 Typical Beam Cantilever
 SCALE: 3/4" = 1'-0"



9 Typical Bearing Plate Anchorage
 SCALE: N.T.S

GENERAL LINTEL SCHEDULE FOR MASONRY PARTITIONS AND MECHANICAL WALL OPENINGS

MARK	NOMINAL WALL WIDTH	MASONRY OPENING	DETAIL	LINTEL
(L)	6" WALLS	4'-0" OR LESS	┘	(2) L3x2 1/2x1/4
(L)	8" WALLS	6'-0" OR LESS	┘	(2) L5x3 1/2x5/16
(L)	8" WALLS	6'-0" UP TO 8'-0"	┘	(2) L5x3 1/2x5/16
(L)	8" WALLS	8'-0" UP TO 12'-0"	┘	W12x22 + 7"x3/8" PL
(L)	10" WALLS	3'-0" OR LESS	┘	(2) L6x3 1/2x3/8
(L)	10" WALLS	3'-0" UP TO 6'-0"	┘	W8x21 + 9"x3/8" PL
(L)	10" WALLS	6'-0" UP TO 12'-0"	┘	W12x26 + 9"x3/8" PL
(L)	12" WALLS	3'-0" OR LESS	┘	(3) L5x3 1/2x5/16
(L)	12" WALLS	3'-0" UP TO 6'-0"	┘	W8x21 + 11"x3/8" PL
(L)	12" WALLS	6'-0" UP TO 12'-0"	┘	W12x26 + 11"x3/8" PL
(L)	16" WALLS	3'-0" OR LESS	┘	W8x31 + 15"x3/8" PL
(L)	16" WALLS	3'-0" UP TO 8'-0"	┘	W12x40 + 15"x3/8" PL

- NOTES:
 1. COMPLY WITH ALL THE REQUIREMENTS OF THE "CONCRETE MASONRY NOTES"
 2. PROVIDE LINTELS FOR ALL ARCHITECTURAL OPENINGS AND MECHANICAL PENETRATIONS GREATER THAN 12" WIDE THROUGH MASONRY WALLS PER LINTEL SCHEDULES. SEE ARCHITECTURAL, MECHANICAL AND OTHER CONTRACT DRAWINGS FOR SIZE AND LOCATION.
 3. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF ALL LINTELS FOR MECHANICAL WORK.
 4. ALL MASONRY OPENINGS FOR MECHANICAL WORK WITHIN 2'-0" HORIZONTALLY OF DOOR/WINDOW JAMBS SHALL BE RELOCATED IN THE WALL TO A LOCATION THAT IS EITHER OVER OR UNDER THE WINDOW OPENING. (MECHANICAL OPENINGS SHALL NOT BE LOCATED WITHIN MASONRY PIERS).
 5. LINTEL PLATES ARE TYPICALLY THE NOMINAL WIDTH OF MASONRY WALL MINUS 1 INCH.
 6. IF NOMINAL MASONRY THICKNESS IS NOT SHOWN WITHIN THIS SCHEDULE, USE THE NEXT GREATER WALL THICKNESS.
 7. FOR ALL STEEL ANGLE, WIDE FLANGE AND HSS LINTELS: PROVIDE 8" MINIMUM END BEARING FOR LINTELS BEARING ON WALL PARALLEL TO LINTEL AND 6" MINIMUM END BEARING FOR LINTELS BEARING ON WALL PERPENDICULAR TO LINTEL (SEE BEARING PLATE SCHEDULE FOR PLATE SIZES) WHERE BEARING IS NOT AVAILABLE DUE TO OTHER STRUCTURAL FRAMING. FRAME LINTEL TO STRUCTURAL FRAMING.
 8. ALL 7" WIDE CONTINUOUS PLATES WELDED TO LINTEL MEMBERS SHALL HAVE 3/16" FILLET WELDS 3" LONG AT 12" o.c.
 9. ALL 11" WIDE OR GREATER WIDTH CONTINUOUS PLATES WELDED TO LINTEL MEMBERS SHALL HAVE 3/16" FILLET WELDS 6" LONG SPACED AT 12" o.c.
 10. ALL LINTELS WITH CONTINUOUS SUSPENDED PLATES SHALL HAVE THOSE PLATES SUSPENDED SUCH THAT THE BOTTOM OF THE LINTEL RESTS ON THE NEAREST COURSE LINE AND THE SUSPENDED PLATE IS A MINIMUM OF 2" IN DEPTH AND A MAXIMUM OF 8" IN DEPTH TO THE BOTTOM OF PLATE. 5/16" HANGERS PLATES SHALL BE ATTACHED TO THE LINTEL AND SUSPENDED PLATE WITH A 3/16" FILLET WELD. THE LAST HANGER PLATE SHALL BE NO FURTHER THAN 2" FROM EACH END OF THE SUSPENDED PLATE.
 11. ALL CONTINUOUS PLATES WELDED TO LINTEL MEMBERS SHALL BE THE SAME LENGTH OF THE MASONRY OPENING.
 12. ALL STEEL WIDE FLANGE LINTELS SHALL BE ON THE CENTERLINE OF LOAD BEARING C.M.U. ABOVE LINTEL OR ON COLUMN CENTERLINES.
 13. PROVIDE DOWELS THE SAME SIZE AS WALL REINFORCEMENT WELDED TO THE TOP OF ALL WIDE FLANGE AND HSS LINTELS/BEAMS AT THE LESSER OF THE WALL REINFORCING SPACING OR 24".
 14. ALL LINTEL PLATES IN EXTERIOR WALLS SHALL BE GALVANIZED.

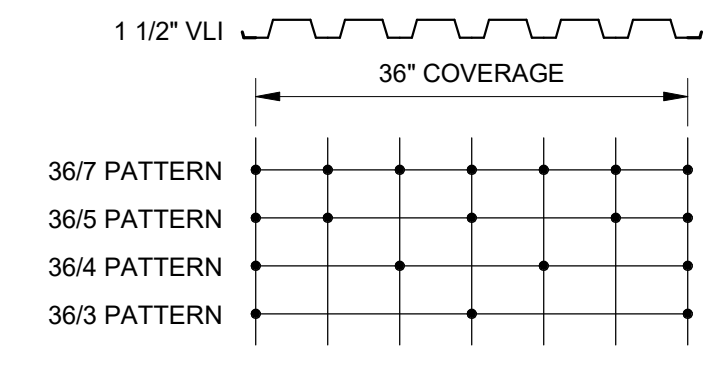
BEARING PLATE SCHEDULE

MARK	DETAIL	BEARING PLATE	ANCHORS	REMARKS
BP - 1		"W" x 3/8" x 1'-0"	(2) 3/4" DIA. x 6" @ 8" o.c. HEADED STUD ANCHORS (SEE DETAIL)	TYPICAL BEAM/LINTEL BEARING PLATE UNLESS NOTED OTHERWISE
		"W" x 3/8" x 1'-4"	(2) 3/4" DIA. x 6" @ 8" o.c. HEADED STUD ANCHORS (SEE DETAIL)	TYPICAL BEAM/LINTEL BEARING PLATE UNLESS NOTED OTHERWISE
BP - 2		"W" x 1/2" x 1'-0"	(2) 3/4" DIA. x 6" @ 8" o.c. HEADED STUD ANCHORS (SEE DETAIL)	---
		"W" x 1/2" x 1'-4"	(2) 3/4" DIA. x 6" @ 8" o.c. HEADED STUD ANCHORS (SEE DETAIL)	---

- NOTES:
 1. BEARING PLATES REQUIRED FOR ALL STEEL BEAMS, LINTELS AND OPEN WEB STEEL JOIST WHICH BEAR ON MASONRY WALLS WITH AN EXCEPTION TO ANGLE LINTELS UNLESS NOTED OTHERWISE.
 2. COMPLY WITH ALL THE REQUIREMENTS OF THE "MASONRY WALL LINTEL NOTES" AND "CONCRETE MASONRY NOTES".
 3. BEAM BEARING PLATES SHALL BE "BP-1" UNLESS NOTED OTHERWISE. ALL JOISTS BEARING PLATES SHALL BE "BP-1" UNLESS NOTED OTHERWISE.
 4. "W" = WIDTH OF BEARING PLATES SHALL BE THE NOMINAL WIDTH OF THE CMU BELOW MINUS 1 1/2 INCH.
 5. PROVIDE A MINIMUM OF (2) COURSES OF SOLID GROUDED MASONRY BELOW BEAM BEARING PLATES, UNLESS NOTED OTHERWISE.
 6. ALL STUDS AND THREADED ROD ANCHORS SHALL BE ASTM A307 OR A36 STEEL. SEE ANCHOR DETAILS THIS DRAWING.
 7. PROVIDE 1/2" NON-SHRINK GROUT UNDER BEARING PLATES WITH LOOSE THREADED ROD ANCHORS.
 8. PROVIDE NON-SHRINK GROUT IN VOIDS UNDER BEARING PLATES WITH WELDED STUDS OR ROD ANCHORS THAT ARE BEARING ON MASONRY THAT WAS CONSTRUCTED UNEVENLY.
 9. PROVIDE 3000 PSI/PEA GRAVEL CONCRETE FILL AROUND ALL ANCHORS.
 10. WELD ALL JOISTS, BEAMS AND LINTELS TO PLATES WITH A MINIMUM OF 2" LONG - 1/8" FILLET WELDS FOR K-SERIES JOISTS, (2) 2" LONG - 1/4" FILLET WELDS FOR LH AND DL-SERIES JOISTS AND (2) 2" LONG - 1/4" FILLET WELDS FOR STEEL BEAMS, UNLESS NOTED OTHERWISE.
 11. ALL STEEL BEAMS AND LINTELS SHALL BE WELDED TO METAL BEARING PLATES AT ONE END ONLY DURING WINTER CONSTRUCTION TO ALLOW FREE EXPANSION AND CONTRACTION OF THE STEEL INDEPENDENT OF MASONRY WALLS. WELDING OF BOTH ENDS OF BEAMS AND LINTELS TO BEARING PLATES SHALL OCCUR AFTER TEMPERATURES HAVE STABILIZED.

Schedule - Masonry Bearing Wall Steel Lintel

Mark	Beam Size	Cont. Pl. Thickness	Comments
L-1	W8x18	3/8"	Coordinate PL with wall thickness
L-2	W12x26	3/8"	Coordinate PL with wall thickness



Schedule - Deck Fastening

TYPE	DECK FASTENING
4" Concrete on 1 1/2" Composite Metal Deck	5/8" Puddle Welds in 36/4 Pattern, #10 Side Lap Fasteners @ 12" max o.c.

Deck Fastening Schedule
 SCALE: N.T.S

Beam Connection Values Schedule

SIZE	VERTICAL (kips)	MIN ROWS OF BOLTS	MOMENT (ft-kips)
W12	12.0	2	20.0
W14	14.0	3	N/A

- NOTES:
 1. UNLESS INDICATED OTHERWISE ON THE PLANS BEAM END CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ABOVE.
 2. BOLT DIAMETER SHALL BE 3/4" MINIMUM.
 3. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) ROWS OF BOLTS, AND AS INDICATED ABOVE.

FOR BIDDING PURPOSES, STRUCTURAL STEEL SHALL BE DEFINED TO INCLUDE MISCELLANEOUS STEEL ITEMS (I.E. ANGLES, LINTELS, AND OTHER SUCH ITEMS) AS DEFINED IN THE AISC "CODE OF STANDARD PRACTICE" SECTION 2, ARTICLES 2.1 AND 2.2, WHETHER SHOWN ON CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC OR ELECTRICAL BID DOCUMENTS. BIDDERS SHALL REFER TO ALL BID DOCUMENTS AND INCLUDE THESE ITEMS IN THEIR BID.

REVISIONS

NO.	MM-DD-YY	NAME	DESCRIPTION OF CHANGES

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
 401 EAST WINDING HILL ROAD
 MECHANICSBURG PA 17055
 717-458-0272

www.cra-architects.com
 TOWSON, MARYLAND
 CHARLOTTESVILLE, VIRGINIA
 WHITE SULPHUR SPRINGS, WEST VIRGINIA

PALMERTON AREA SCHOOL DISTRICT
S.S. PALMER ELEMENTARY SCHOOL
 SECURITY VESTIBULE & RENOVATIONS
 298 LAFAYETTE AVENUE
 PALMERTON, PA 18071



DETAILS & SCHEDULES

PLOT SCALE:
 As indicated
 FILENAME:
 DATE:
 02/09/2024

PROJECT
 3378.1

S1.2