MATERIALS AND PHYSICAL PROPERTIES

1. WELDING ELECTRODES: PER TABLE 3.1 OF AWS D1.1 FOR THE SMAW PROCESS OR ANY OTHER PREQUALIFIED WELDING PROCEDURES SPECIFICATIONS (WPS).
2. ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
3. CONCRETE CONSTRUCTION AND PROPERTIES SHALL CONFORM TO THE CRITERIA SPECIFIED IN TABLE 1 BELOW.
4. CONCRETE AND MASONRY REINFORCEMENT..... Fy=60000 psi

5. MASONRY..... f'm=1500 psi
6. CONCRETE BLOCK FOR REINFORCED CONSTRUCTION SHALL BE TWO CELL UNITS CONFORMING TO ASTM C-90, TYPE I, MEDIUM-WEIGHT CONCRETE.
7. MORTAR SHALL BE PORTLAND CEMENT/LIME.
8. MORTAR (TYPE S)..... f'c=1800 psi
9. GROUT..... f'c=3000 psi
10. STRUCTURAL STEEL
    a. ANGLES AND PLATES..... Fy=36000 psi
    b. TUBES..... Fy=46000 psi
11. STEEL BOLTS
    a. STEEL BOLTS (A307, GRADE A)..... Fu=60000 psi
12. ALL STUDS, JOISTS, AND ACCESSORIES..... Fy=33000 psi
13. WOOD FRAMING..... F*b = 1500 PSI
    E= 1,600,000 PSI

TABLE 1: CONCRETE PROPERTIES

STRUCTURE TYPE	f'_c (MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS (PSI)	MAXIMUM WATER/ CEMENTITIOUS MATERIALS RATIO	ENTRAINED AIR CONTENT (%)
FOUNDATIONS	3000	0.66	UP TO 2%
EXTERIOR REINF. SLABS AND STAIRS	4000	0.47	6%

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Project Title: 415B Renovations

Date: 10/01/13

Project No.: 613-13-137

Approved: Chief Engineer Project Engineer

Approved: Medical Center Director

Building Number: 415B | Checked: MAS | Drawn: MAS

Location: VAMC, MARTINSBURG, WV

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DEPARTMENT OF VETERANS AFFAIRS

FOOTINGS

1. THE BOTTOM ELEVATION OF NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS MUST MATCH THE BOTTOM ELEVATION OF THE EXISTING FOOTINGS UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
2. BOTTOMS OF ALL FOOTINGS SHALL EXTEND 1'-0" MINIMUM INTO UNDISTURBED SOIL AND, WHERE SUBJECT TO FROST ACTION, AT LEAST 3'-0" BELOW FINISHED GRADE.
3. WHERE BEARING ON UNDISTURBED VIRGIN SOIL IS NOT POSSIBLE AT FOOTING ELEVATIONS INDICATED, FOOTINGS SHALL BE SUPPORTED ON CONTROLLED FILL OR FOOTINGS SHALL BE LOWERED AND SHALL BEAR ON VIRGIN SOIL.
4. FOOTINGS SHALL BE EXTENDED BELOW ELEVATIONS SHOWN WHERE NECESSARY TO REACH THE DESIGN SOIL BEARING VALUE, SUBJECT TO APPROVAL OF THE C/O AND/OR COTR.
5. FOOTING SUBGRADE SHALL BE APPROVED BY THE C/O AND/OR COTR PRIOR TO PLACEMENT OF THE FOOTINGS.

BACKFILL COMPACTION

1. BACKFILLING AGAINST WALLS WILL NOT BE PERMITTED UNTIL FLOOR CONSTRUCTION IS IN PLACE. BRACING ARRANGEMENTS SHALL BE APPROVED BY THE C/O AND/OR COTR PRIOR TO BACKFILLING.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO BRACE FOUNDATION WALLS WHEN BACKFILLING AND WHEN THERE IS A POSSIBILITY OF DAMAGE BY EXCESS WATER. BACKFILLING AGAINST SUCH WALLS SHALL BE DONE IN A MANNER THAT WILL NOT DAMAGE WALLS. ALL PRECAUTIONS SHOULD BE TAKEN FOR ADEQUATE DRAINAGE PRIOR TO AND AFTER SUCH BACKFILLING.
3. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF 8" AND SHALL BE COMPACTED TO DRY DENSITIES OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).

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DEPARTMENT OF VETERANS AFFAIRS

CAST-IN-PLACE CONCRETE CONSTRUCTION

1. FOOTING DOWELS FOR CANTILEVERED "RETAINING" WALLS SHALL PROJECT INTO WALL AS SHOWN ON RETAINING WALL SECTION(S) ON SHEET S503.
2. CONCRETE TEST CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, CHAPTER 5.
3. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318, ACI 301, AND THE ACI DETAILING MANUAL.

CONCRETE REINFORCEMENT

1. CONCRETE PROTECTION FOR STEEL REINFORCEMENT OF CAST-IN-PLACE CONCRETE SHALL BE AS SPECIFIED IN TABLE 2 ON THIS SHEET, UNLESS OTHERWISE NOTED.
2. DETAILS OF STEEL REINFORCEMENT SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.

TABLE 2: CONCRETE PROTECTION

TYPE OF STRUCTURE	NOT EXPOSED TO EARTH OR WEATHER IN SERVICE	EXPOSED TO EARTH OR WEATHER IN SERVICE		EARTH FORMED
		#5 OR SMALLER	#6 OR LARGER	
SLABS	¾"	1½"	2"	3"
FOOTINGS	---	3"	3"	3"

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Project Title: 415B Renovations

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Project No.: 613-13-137

Approved: Chief Engineer Project Engineer

Approved: Medical Center Director

Building Number: 415B

Checked: MAS

Drawn: MAS

Location: VAMC, MARTINSBURG, WV

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DEPARTMENT OF VETERANS AFFAIRS

ANCHORS

1. PROPOSED ANCHORS SHALL BE SUBMITTED TO THE C/O AND/OR COTR FOR REVIEW AND APPROVAL PRIOR TO FIELD OPERATIONS.
2. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
3. EXPANSION ANCHORS (SOLID MASONRY)
   a. SHALL BE HILTI KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS OR AN APPROVED EQUIVALENT WITH ACCOMPANYING ICC EVALUATION REPORT;
   b. SHALL BE EXTERNALLY THREADED WEDGE BOLT ANCHORS;
   c. SHALL BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.
   d. SHALL MEET THE FEDERAL SPECIFICATION A-A 1923A, TYPE 4.
4. ADHESIVE ANCHORS (CONCRETE)
   a. SHALL BE HILTI HIT-HY 150 MAX ANCHORING SYSTEM OR AN APPROVED EQUIVALENT WITH ACCOMPANYING ICC EVALUATION REPORT;
   b. SHALL USE INJECTABLE ADHESIVE;
   c. SHALL USE STAINLESS STEEL THREADED RODS, UNLESS OTHERWISE NOTED.
5. POWDER ACTUATED FASTENERS (CONCRETE)
   a. SHALL BE HILTI X-C FASTENERS MANUFACTURED BY HILTI FASTENING SYSTEMS OR AN APPROVED EQUIVALENT;
   b. SHALL BE ZINC PLATED (5 MILS) IN ACCORDANCE WITH ASTM B633, SC 1, TYPE III.
6. IF MINIMUM REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) FOR ANCHORS CANNOT BE ACHIEVED DUE TO FIELD CONDITIONS, NOTIFY THE C/O AND/OR COTR FOR GUIDANCE PRIOR TO DRILLING HOLES FOR ANCHORS.
7. HOLES FOR ANCHORS TO BE INSTALLED IN MASONRY SHALL BE DRILLED WITH A ROTARY DRILL ONLY, NOT A ROTARY-HAMMER DRILL.
8. CURING TIME FOR ADHESIVE ANCHOR SYSTEM SHALL BE A MINIMUM OF 48 HOURS OR AS RECOMMENDED BY THE ANCHOR MANUFACTURER, WHICHEVER IS MORE STRINGENT.

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STRUCTURAL STEEL

1. UNLESS OTHERWISE NOTED, BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" (LATEST EDITION).
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123.
3. WELDS SHALL BE INSTALLED BY WELDERS QUALIFIED IN ACCORDANCE WITH AWS PROCEDURES FOR WELDER QUALIFICATION.
4. WELDING INSPECTION SHALL BE MADE IN ACCORDANCE WITH THE INSPECTION CHAPTER OF AWS D1.1 (LATEST EDITION).
5. INSPECTION SHALL BE PERFORMED BY A RECOGNIZED INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR.

COLD FORMED METAL FRAMING

1. FRAMING COMPONENTS INDICATED ON THE DRAWINGS ARE IDENTIFIED USING THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) IDENTIFICATION CODE.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, PROVIDE LIGHT GAGE METAL HEADERS FOR OPENINGS IN STUD WALLS PER THE HEADER DETAIL ON SHEET S501. AT CLOSED BOX HEADERS, INSTALL THE REQUIRED WALL INSULATION INSIDE OF THE HEADER, PRIOR TO CLOSING THE HEADER BOX.
3. WHERE SCREW ATTACHMENTS ARE MADE TO FRAMING COMPONENTS OF DIFFERENT THICKNESSES, THE THINNEST COMPONENT MUST BE PENETRATED FIRST. MAINTAIN A MINIMUM 3/4–INCH DISTANCE FROM EDGE OF LIGHT GAGE STEEL TO CENTERLINE OF SCREW AND A MINIMUM SPACING OF 1 INCH BETWEEN SCREWS, UNLESS OTHERWISE NOTED.
4. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF THE TRACKS. THE ENDS OF THE STUDS MUST BEAR AGAINST THE WEB OF BOTH UPPER AND LOWER TRACKS U.N.O.
5. WALL STUD BRIDGING SHALL BE INSTALLED PRIOR TO ATTACHMENT OF SHEATHING MATERIALS AND LOADING. WALL STUD BRACING ROWS SHALL BE SPACED NOT TO EXCEED 4'–0" O.C.
6. SPLICING OF FRAMING IS NOT PERMITTED UNLESS DETAILED ON THESE DRAWINGS. SPLICES IN TRACKS SHALL BE LOCATED BETWEEN WALL STUDS AND SHALL HAVE A MINIMUM OVERLAP OF 12 INCHES.
7. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.
8. ALL STUDS, JOISTS, AND TRACKS SHALL HAVE A G--60 GALVANIZED COATING.
9. SELF–DRILLING SCREWS (TEK SCREWS) SHALL BE #12 X 3/4 INCH SCREWS MANUFACTURED BY THE SIMPSON STRONG–TIE COMPANY, INC., OR AN APPROVED EQUIVALENT U.N.O.

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TIMBER

1. PRE-DRILL NAIL HOLES TO PREVENT SPLITTING TIMBER MEMBERS. THE DIAMETER OF THE BORED HOLE SHALL NOT EXCEED 75% OF THE NAIL DIAMETER.
2. THE NUMBER OF NAILS SHOWN IN THE ROOF TRUSS CONNECTION DETAILS ON SHEET S502 ARE IN ADDITION TO THE EXISTING NAILS IN PLACE. IT IS ASSUMED THAT THERE ARE AT LEAST FIVE EXISTING NAILS IN EACH MEMBER-TO-MEMBER CONNECTION. WHERE THERE ARE FEWER THAN FIVE EXISTING NAILS, AN ADDITIONAL NAIL SHALL BE INSTALLED TO REPLACE EACH "MISSING" NAIL.
3. INSTALL NAILS SUCH THAT NEW AND EXISTING NAILS ARE SPACED EVENLY. SPACING BETWEEN NAILS (NEW OR EXISTING) SHALL NOT BE LESS THAN FOUR (4) TIMES THE NAIL DIAMETER.
4. ALL CONNECTORS AND HANGERS IN CONTACT WITH PRESSURE TREATED (PT) FRAMING SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE. FASTENERS ASSOCIATED WITH THESE CONNECTORS SHALL ALSO BE STAINLESS STEEL.
5. FOLLOW ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS FOR ATTACHMENT OF CONNECTORS AND HANGERS.

TIMBER TRUSSES

1. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" (TPI-1-2002), PUBLISHED BY THE TRUSS PLATE INSTITUTE.
2. SEE THE TRUSS DIAGRAM ON THE SHEET S503 FOR SUGGESTED TRUSS CONFIGURATIONS. SEE THE ARCHITECTURAL DRAWINGS FOR REQUIRED TRUSS DIMENSIONS.
3. TRUSS DESIGN SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA.
4. DESIGN TRUSSES FOR DEAD, LIVE, SNOW, AND WIND LOADS SHOWN IN DETAIL 13/S503.
5. TRUSS PLATE CONNECTIONS SHALL BE SIZED USING A MINIMUM SAFETY FACTOR OF TWO.
6. SEE THE ROOF FRAMING PLAN FOR AREAS OF OVERBUILT FRAMING. TRUSS DESIGNS MUST TAKE INTO ACCOUNT THE DEAD LOADS FROM THESE OVERBUILT AREAS IN ADDITION TO THE DEAD LOADS APPLIED TO THE SUPPORTING TRUSSES.
7. ERECTION LAYOUT, CALCULATIONS, JOINT STRENGTH INFORMATION (ALLOWABLE LOAD PER SQUARE INCH OR PER NAIL, ALLOWABLE EDGE DISTANCE AND END DISTANCE), LOAD TEST DATA, DETAILS FOR TRUSS-TO-TRUSS CONNECTIONS, AND ANY OTHER INFORMATION DEEMED NECESSARY BY THE STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
8. ROOF TRUSSES SHALL BE SECURED AT BEARING ENDS WITH SIMPSON HURRICANE ANCHORS OR AN APPROVED EQUIVALENT CAPABLE OF RESISTING THE COMBINED DESIGN UPLIFT AND LATERAL LOADS SPECIFIED BY THE TRUSS MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
9. ALL TRUSSES SHALL BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION IN THE STRUCTURE IN ACCORDANCE WITH THE "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (DSB-89), AS PUBLISHED BY TPI.
10. TRUSS MANUFACTURER SHALL OBSERVE ERECTED TRUSSES PRIOR TO INSTALLATION OF ROOF SHEATHING TO OBSERVE TEMPORARY BRACING AND TO CERTIFY THAT TRUSS INSTALLATION MEETS THEIR REQUIREMENTS.

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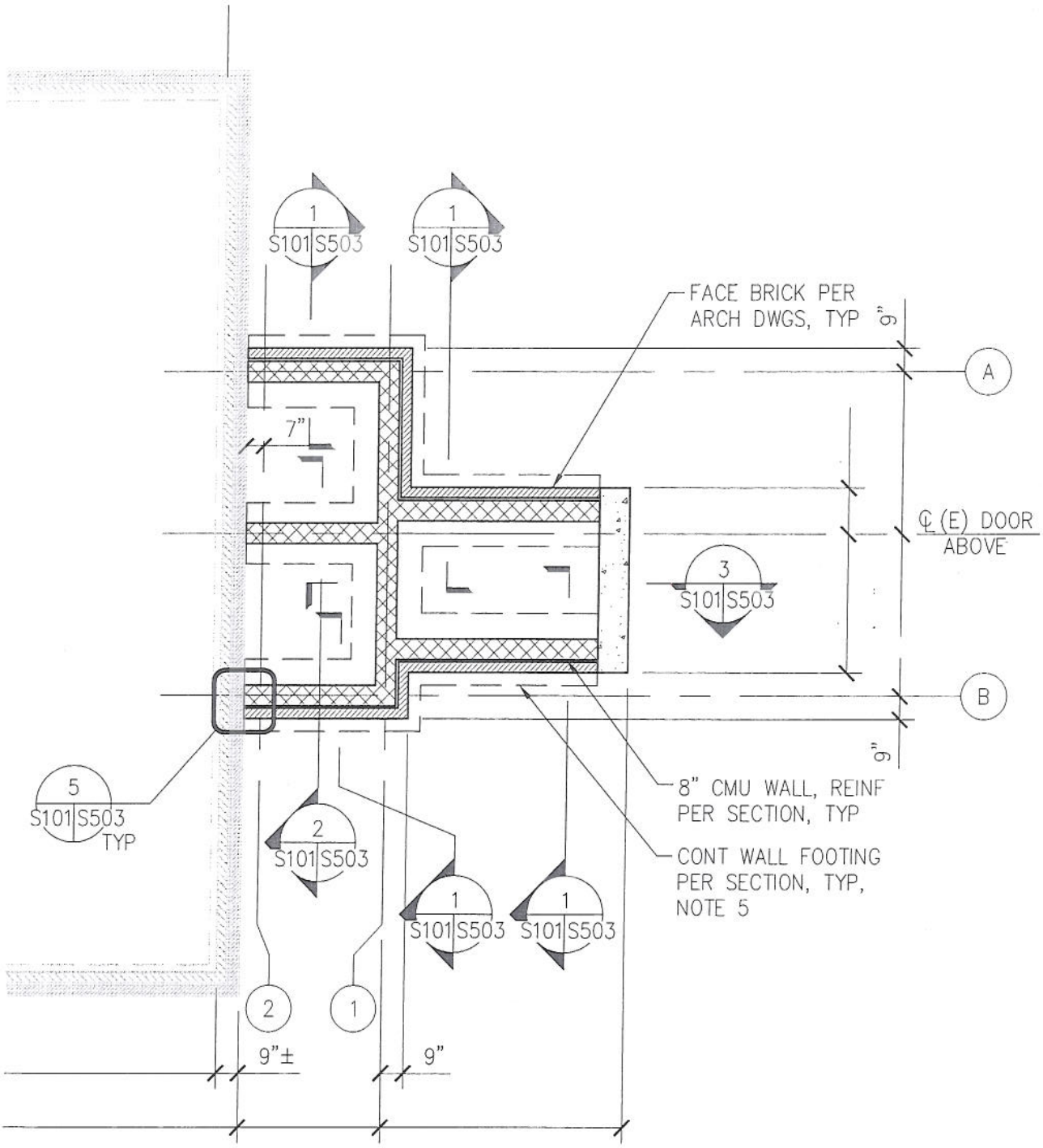
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 6 Of 23	



PORCH FOUNDATION PLAN 1/4" : 1'-0"

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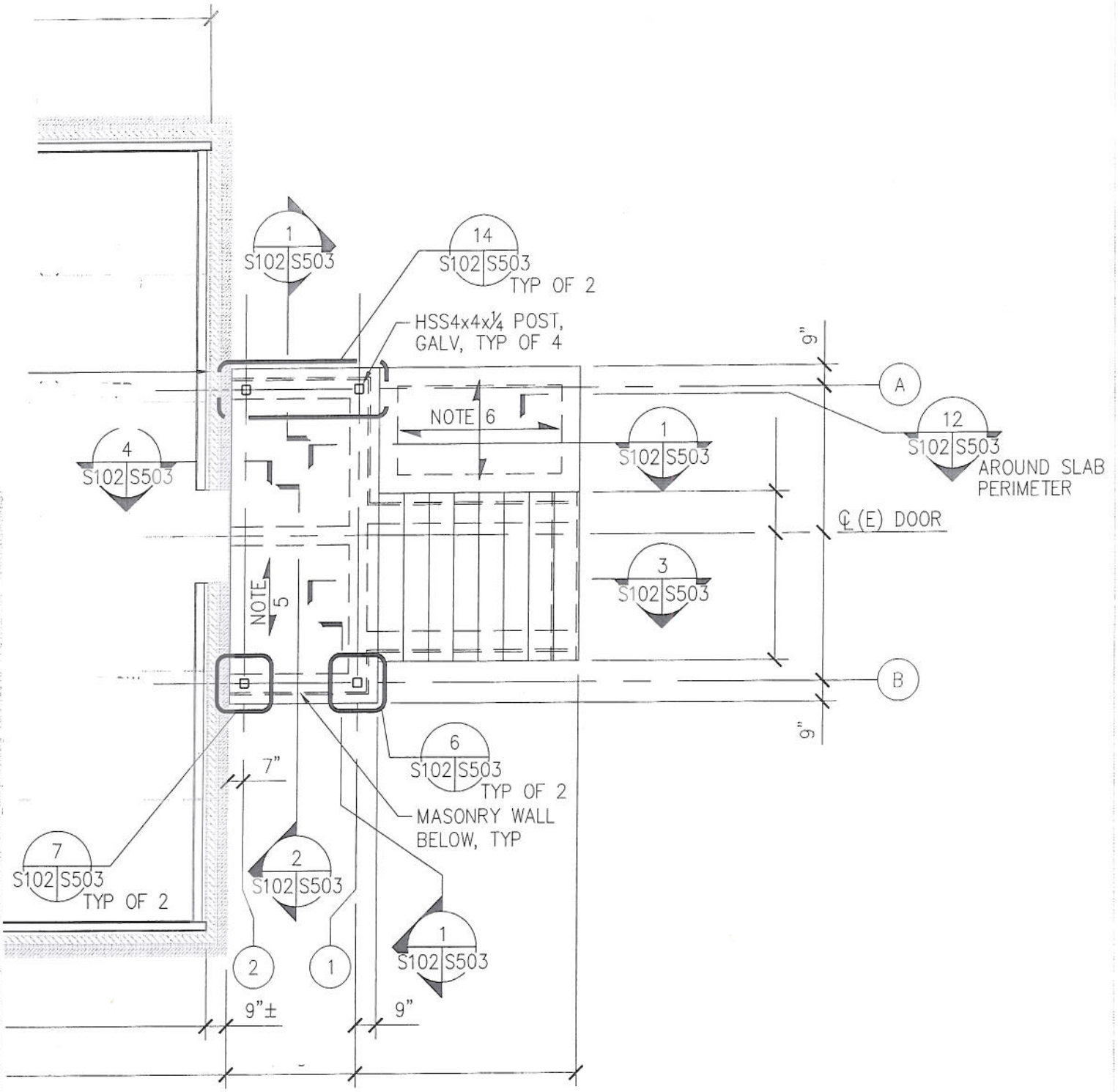
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	S101
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 7 Of 23



PORCH FRAMING PLAN

1/4" : 1'0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations		Date: 10/01/13	
			Project No.: 613-13-137	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	S102
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 3 Of 23

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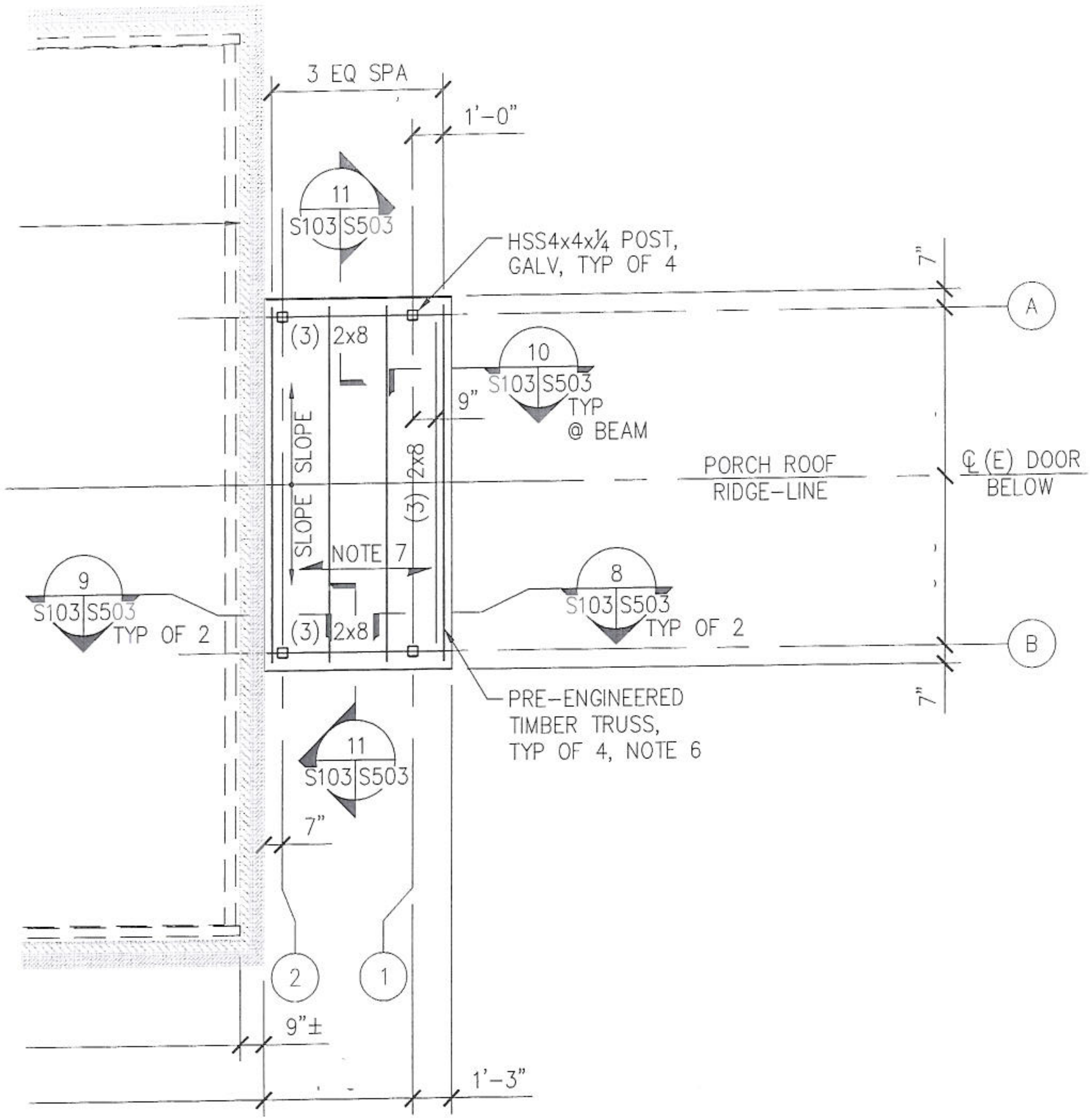

PORCH ROOF FRAMING PLAN
1/4" : 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations		Date: 10/01/13
			Project No.: 613-13-137
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Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV		Dwg. 9 Of 23

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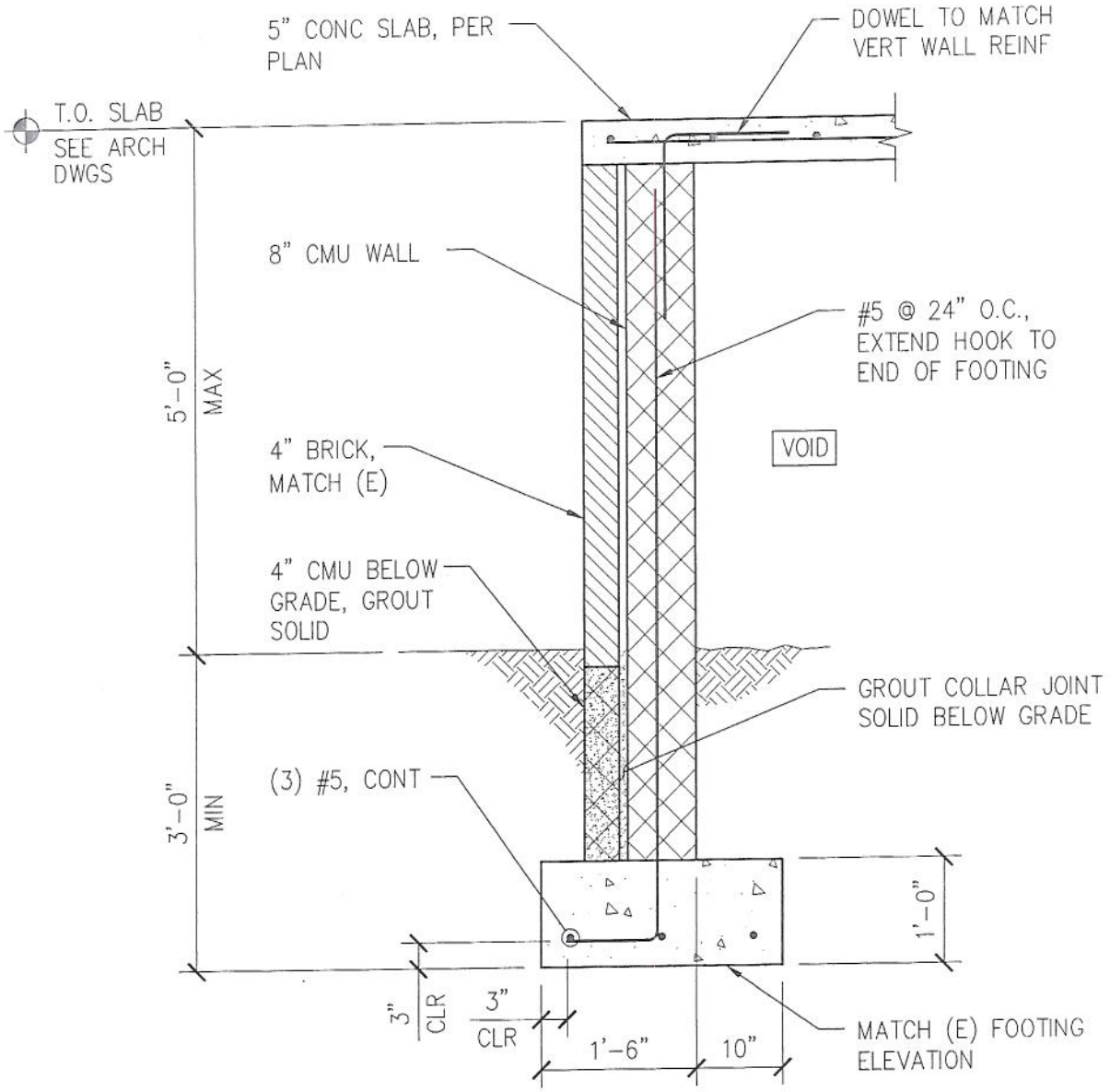

1 S101,S102 S503

PORCH WALL SECTION

SCALE: 3/4" = 1'-0"

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				Project No.: 613-13-137
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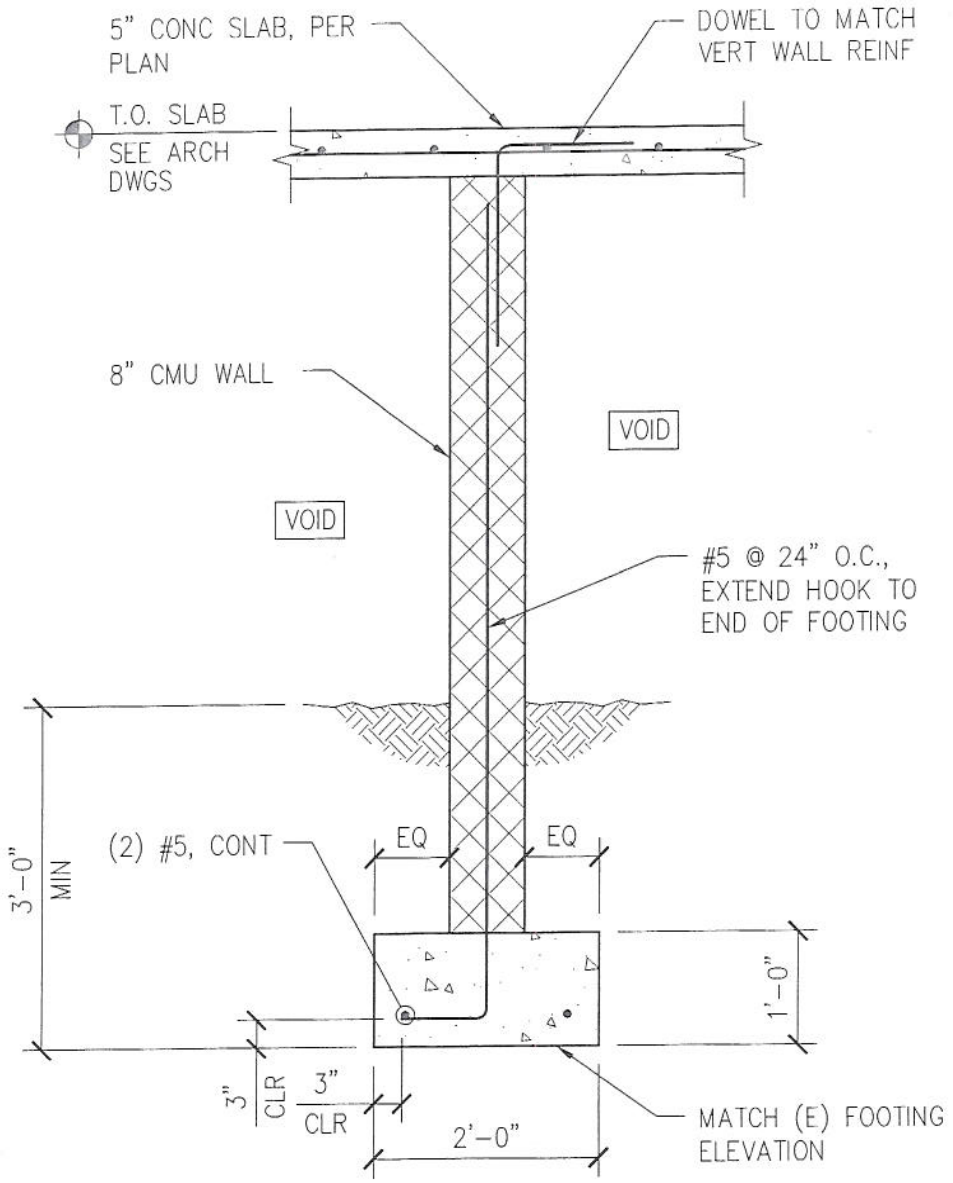
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 10 Of 23

DEPARTMENT OF VETERANS AFFAIRS



PORCH WALL SECTION

2 / S101,S102,S503

SCALE: 3/4" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations			Date: 10/01/13
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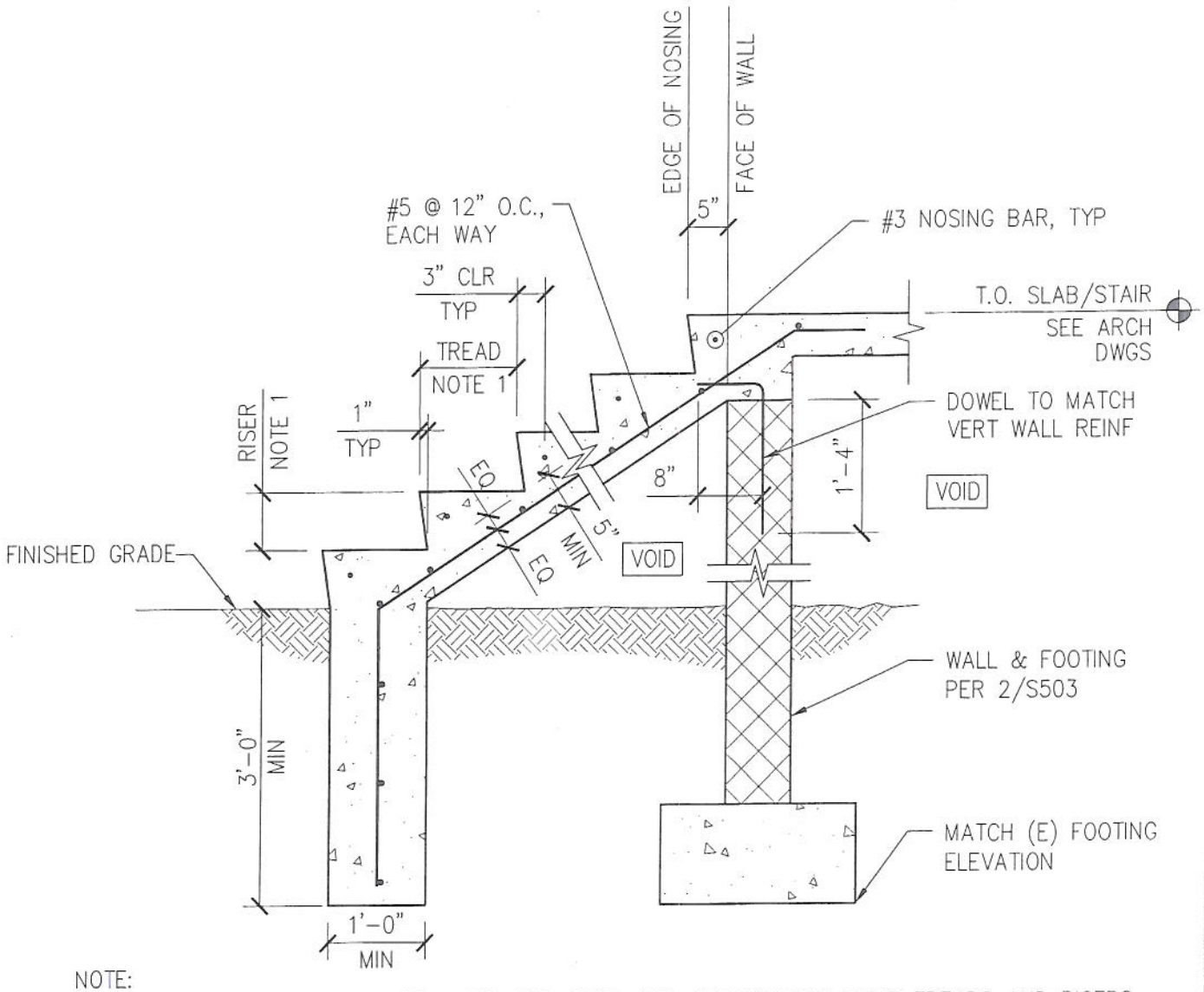

NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND QUANTITY OF STAIR TREADS AND RISERS.
2. FOR SIZE AND LOCATION OF RAILINGS, SEE ARCHITECTURAL DRAWINGS.

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STAIR DETAIL

SCALE ¾" = 1'-0"

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Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV	Project No.: 613-13-137	3/S503
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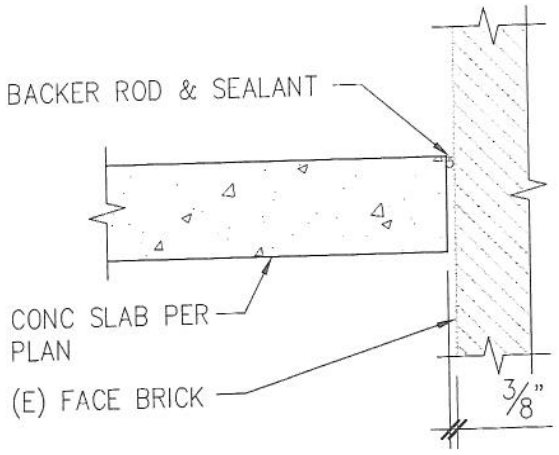

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S102 | S503

ISOLATION JOINT DETAIL

SCALE: 1½" = 1'-0"

Drawing Title
Supplemental Structural Drawings

Approved: Chief Engineer Project Engineer

Approved: Medical Center Director

Project Title
415B Renovations

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Date 10/01/13

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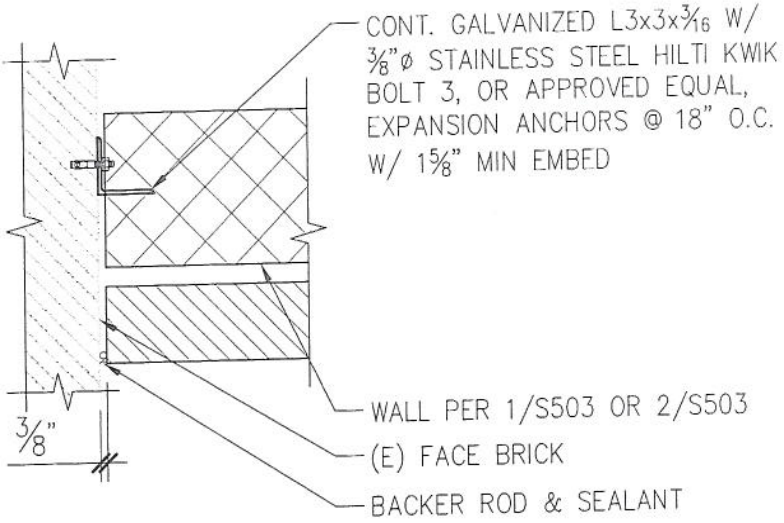

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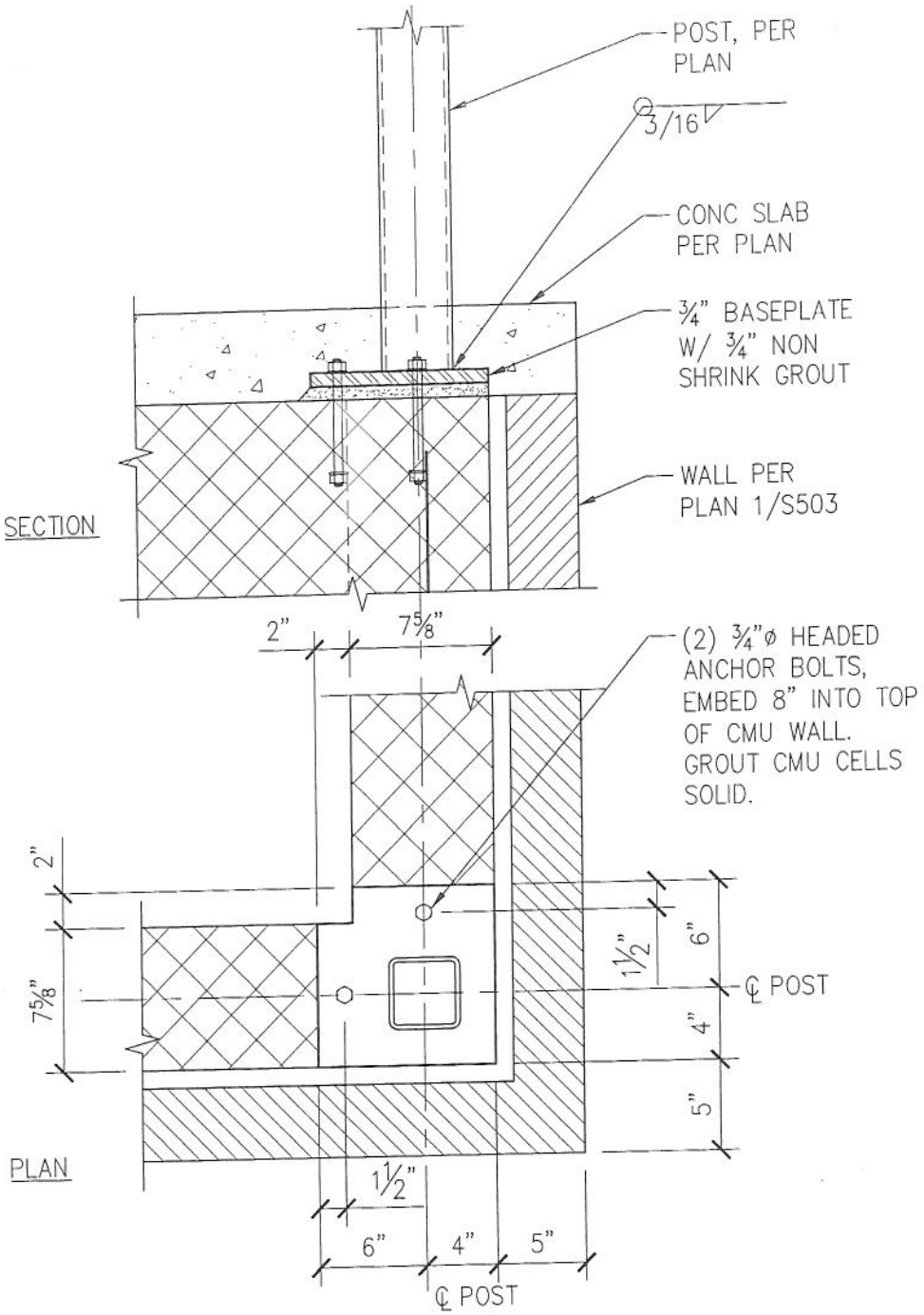
ISOLATION JOINT DETAIL

SCALE: 1½" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations *		Date: 10/01/13	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	Project No.: 613-13-137
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			S/S503 Dwg. 14 Of 23



POST BASE DETAIL

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SCALE: 1½" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations		Date: 10/01/13	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	Project No.: 613-13-137
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			6/S503 Dwg. 19 Of 23

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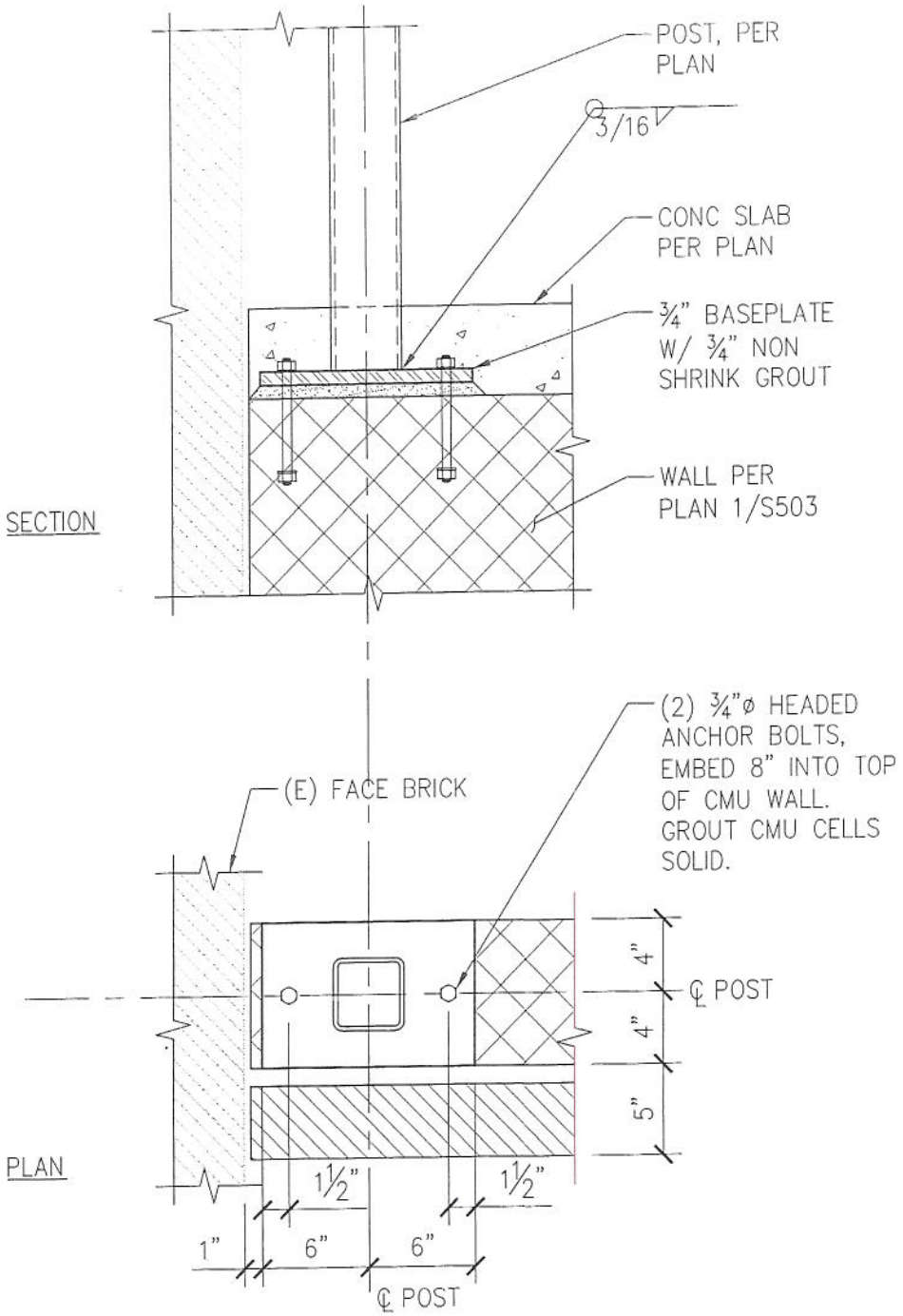

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POST BASE DETAIL

SCALE: 1½" = 1'-0"

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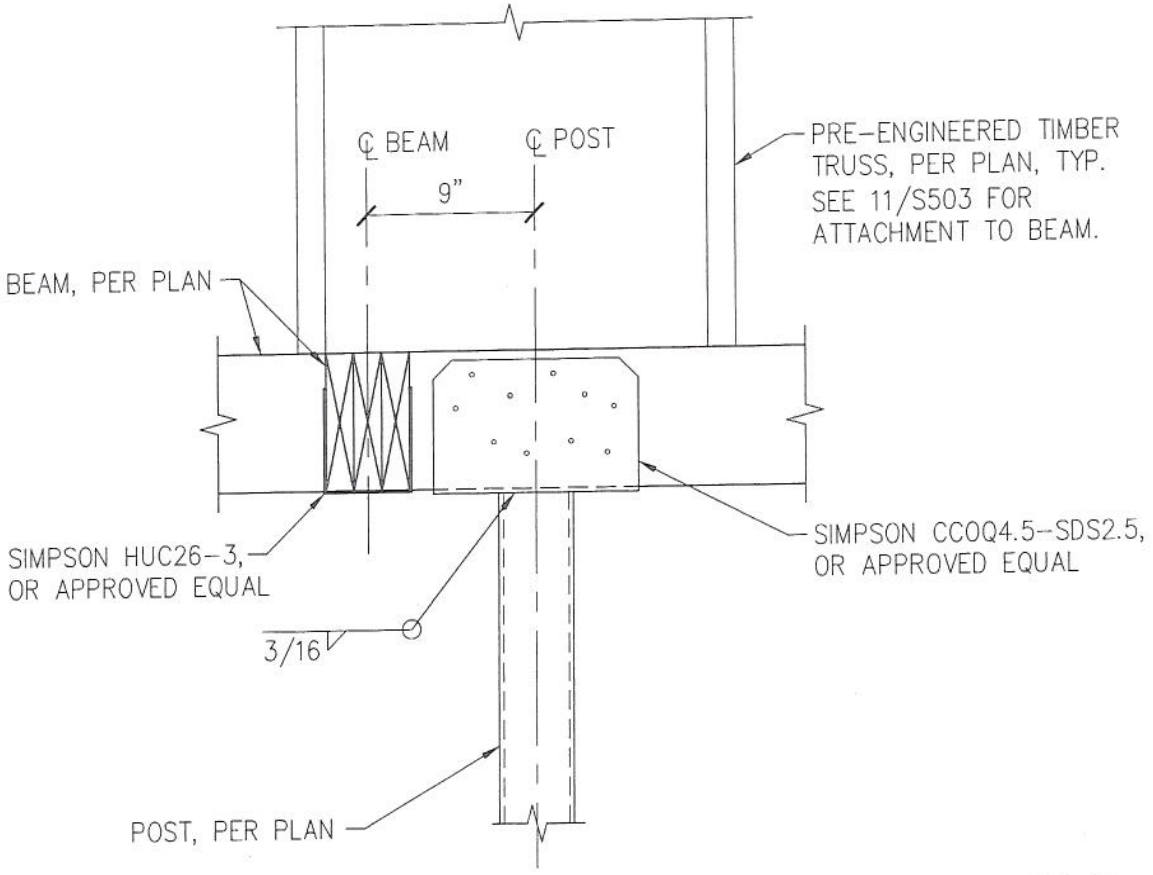

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PORCH BEAM CONNECTION DETAIL

SCALE: 1½" = 1'-0"

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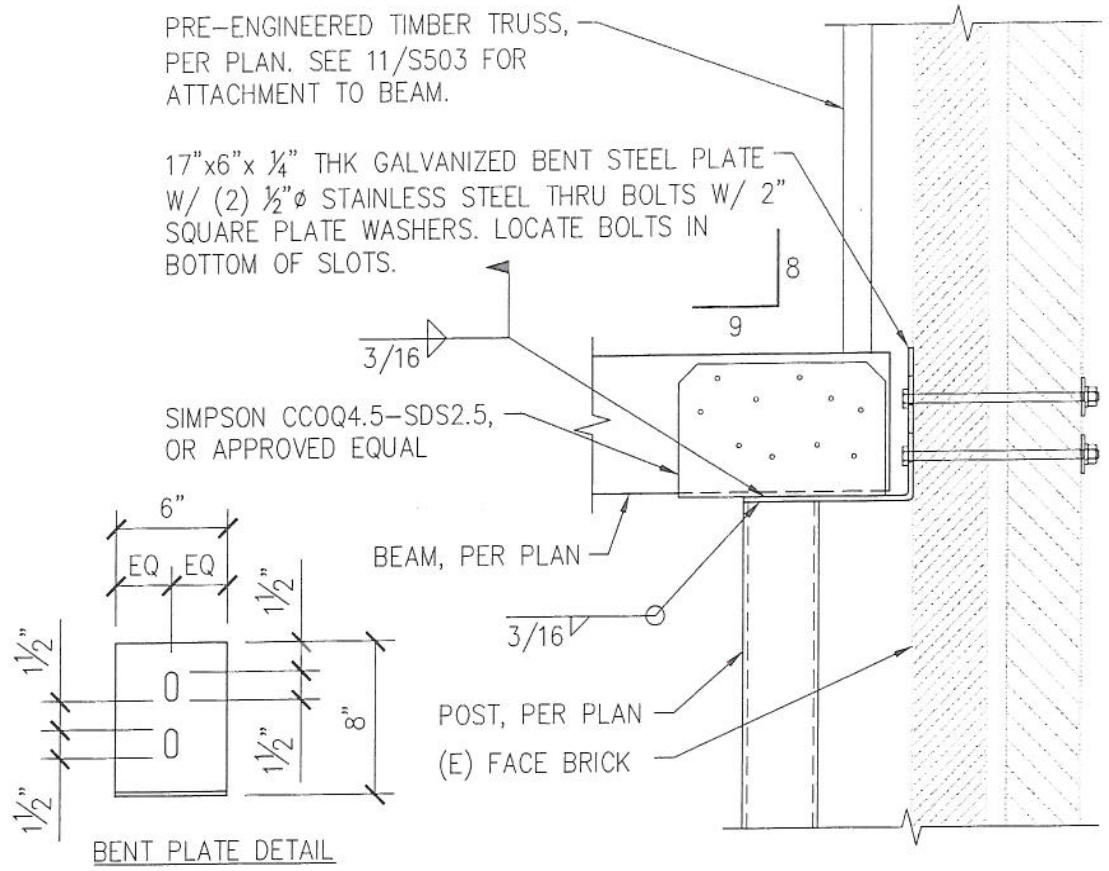
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV		Dwg 17 of 23	

DEPARTMENT OF VETERANS AFFAIRS



PORCH BEAM CONNECTION DETAIL

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S103 S503

SCALE: 1½" = 1'-0"

Drawing Title
Supplemental Structural Drawings

Approved: Chief Engineer Project Engineer

Approved: Medical Center Director

Project Title
415B Renovations

Building Number 415B | Checked MAS | Drawn MAS

Location VAMC, MARTINSBURG, WV

Date 10/01/13

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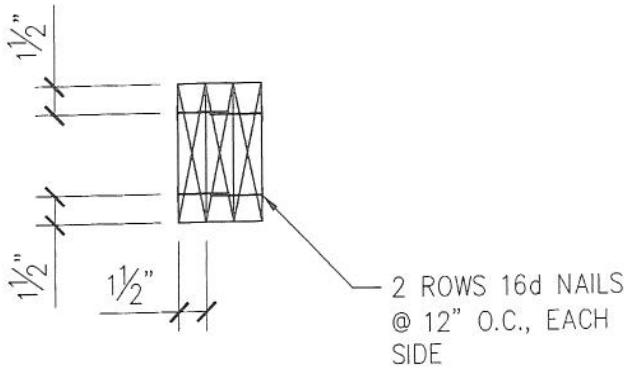
DEPARTMENT OF VETERANS AFFAIRS



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TIMBER BEAM SECTION

NOT TO SCALE

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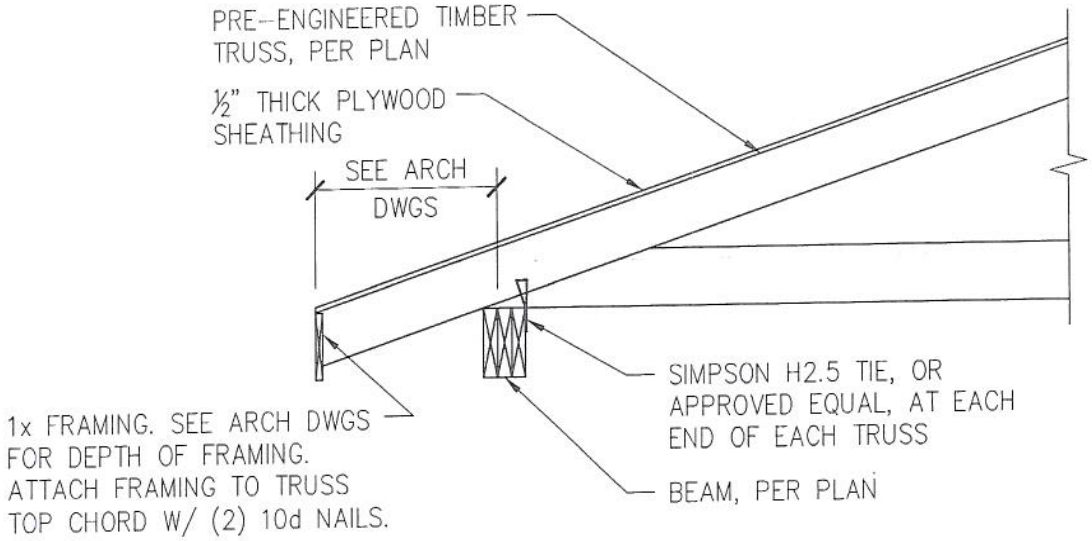

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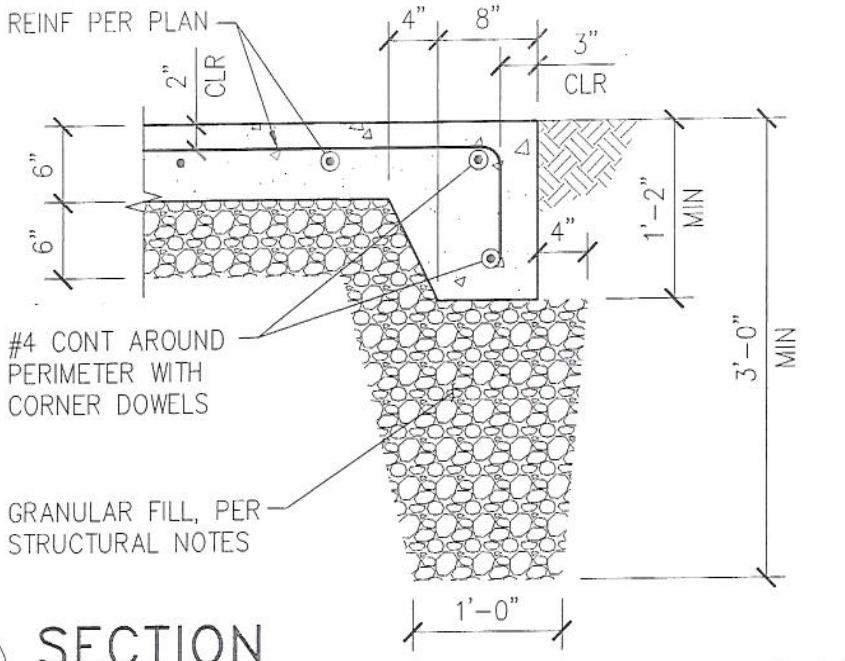
CONNECTION DETAIL

SCALE: ¾" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations			Date: 10/01/13	
				Project No.: 613-13-137	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	11/S503	
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 20 Of 23	

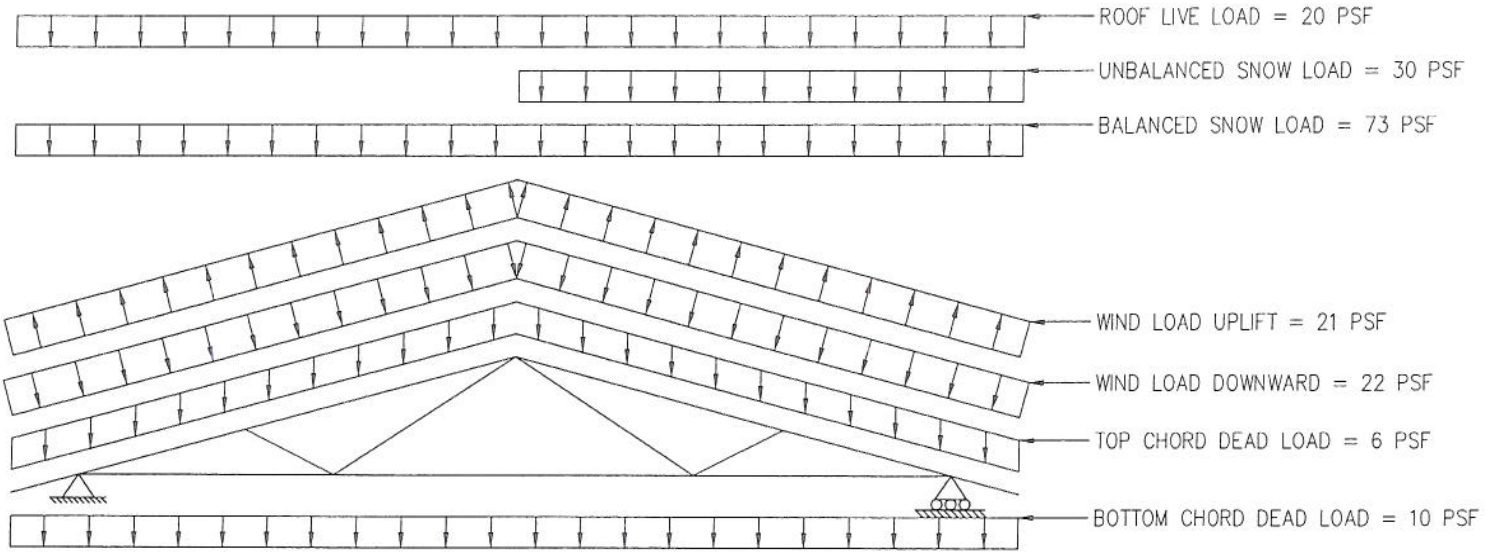


12 SECTION

S102 S503 SCALE 1" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations			Date: 10/01/13	
				Project No.: 613-13-137	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	12/S503	
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			Dwg. 21 Of 23	

DEPARTMENT OF VETERANS AFFAIRS



NOTES:

1. BALANCED SNOW LOAD INCLUDES AN ALLOWANCE FOR DRIFTING SNOW.
2. BALANCED SNOW LOAD AND UNBALANCED SNOW LOAD DO NOT ACT CONCURRENTLY.
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
3. SEE STRUCTURAL NOTES FOR INFORMATION NOT SHOWN.

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TIMBER TRUSS LAYOUT AND LOADING DIAGRAM

NOT TO SCALE

Drawing Title: Supplemental Structural Drawings

Project Title: 415B Renovations

Approved: Chief Engineer Project Engineer

Approved: Medical Center Director

Building Number: 415B

Checked: MAS

Drawn: MAS

Location: VAMC, MARTINSBURG, WV

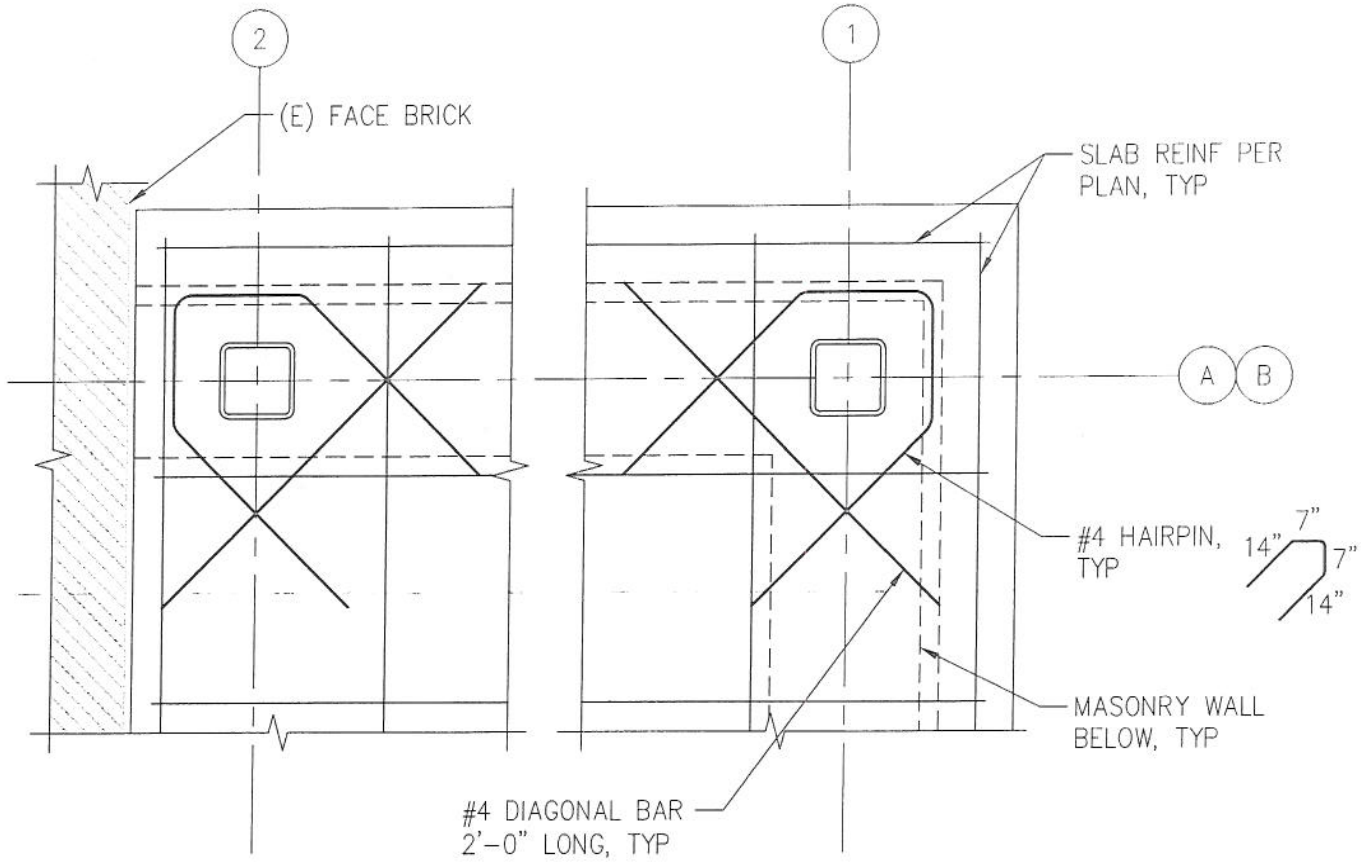
Date: 10/01/13

Project No.: 613-13-137

13/S503

Dwg. 22 Of 23

DEPARTMENT OF VETERANS AFFAIRS



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S102 S503

SLAB HAIRPIN DETAIL

SCALE: 1½" = 1'-0"

Drawing Title: Supplemental Structural Drawings	Project Title: 415B Renovations			Date: 10/01/13	
Approved: Chief Engineer Project Engineer	Building Number: 415B	Checked: MAS	Drawn: MAS	Project No.: 613-13-137	
Approved: Medical Center Director	Location: VAMC, MARTINSBURG, WV			14/S503	Dwg. 23 Of 23

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