

**GENERAL NOTES**

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER. SUBMIT TWO COPIES. ONE COPY WILL BE REVIEWED AND ONE WILL BE RETURNED. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATION. CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR REVIEW.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.

**DESIGN LOADS**

- BUILDING CODE:**  
INTERNATIONAL BUILDING CODE, 2009 EDITION  
INTERNATIONAL EXISTING BUILDING CODE, 2009 EDITION  
ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- DESIGN LOADS:**  
DESIGN LOADS FOR THE MONO-POLE SUPPORT STRUCTURE WAS PROVIDED BY SABRE TOWER & POLES, PROPOSAL NUMBER: 12-0917-RAM DATED FEBRUARY 24, 2012.

**TESTING**

- OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO CONDUCT PERIODIC TESTS TO CONFIRM CONSTRUCTION IS IN CONFORMANCE WITH SPECIFIED PROCEDURES AND SPECIFICATIONS.
- REFERENCE THE PROJECT STATEMENT OF SPECIAL INSPECTIONS AND SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.
- TEST RESULTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW WITHIN 72 HOURS OF COMPLETION OF EACH TEST.

**CONCRETE NOTES**

- CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
- ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI, U.N.O. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:  
A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"  
B. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER #8 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"  
#6 THROUGH #11 BARS, 2.0"  
C. SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0"  
BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1.5"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES PER THE SCHEDULE THIS DRAWING, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
- WELDING OF REINFORCEMENT IS NOT PERMITTED.
- FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS.
- DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.
- ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS SHALL BE HOT-DIPPED GALVANIZED.
- ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "3-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "NET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY FORBIDDEN. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, AND SLEEVES.

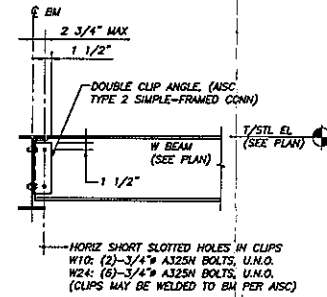
**STRUCTURAL STEEL NOTES**

- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL", LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
- STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS; ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997)
- STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B, 46 KSI.  
STRUCTURAL PIPE: CONFORM TO ASTM A53 TYPE E GRADE B, 35 KSI.
- ALL STEEL SHALL BE ABRASIVELY BLAST CLEANED AND PRIMED WITH ORGANIC ZINC PRIMER, THEME-200C 90-97. MID-COAT WITH EPOXY COATING, F.C. TYPOLY SERIES 27. TOP COAT WITH POLYURETHANE FINISH, ENKURA-SHIELD SERIES 73. TOUCH-UP ALL DAMAGE WHICH OCCURS DURING HANDLING & ERECTION OR FIELD WELDING USING THE SPECIFIED SYSTEM BUILD-UP. COLOR SHALL MATCH EXISTING ROOF (FLAT BLACK). COLOR SAMPLE SHALL BE SUBMITTED TO OWNER PRIOR TO FABRICATION FOR APPROVAL.
- FIELD CONNECTIONS SHALL BE BOLTED USING HOT DIPPED GALVANIZED ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS.
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN).
- SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
- PROVIDE 1/4" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED. LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS.

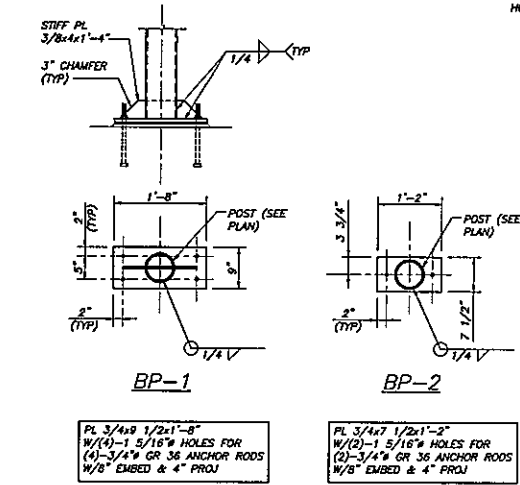
**METAL DECK**

- IF EXISTING ROOF DECK IS DAMAGED DURING REMOVAL FOR SHEARWALL INSTALLATION, REPLACE WITH NEW DECK. VERIFY IN FIELD TYPE OF EXISTING ROOF DECK, MEASURE GAGE AND PROVIDE PATCH OF SIMILAR THICKNESS.
- NEW METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO ASTM STANDARD A811.
- FASTEN ROOF DECK WITH A MINIMUM OF 5/8" DIA PUDDLE WELDS SPACED IN A 36/7 PATTERN (1.58 DECK) WITH A MINIMUM OF (2) WELDS PER UNIT AT EACH SUPPORT IF COMPLETE SHEET IS UTILIZED. WHERE SUPPORT IS PARALLEL TO SUPPORT, AT EDGE OF BUILDING, AT EDGE OF OPENING OR DECK DISCONTINUITY PROVIDE PUDDLE WELDS AT 6" O.C. SECURE DECK TO EACH SUPPORTING MEMBER IN RISBS WHERE SIDELAPS OCCUR. DECK UNITS SHALL BEAR OVER THE END OF SUPPORTS BY A MINIMUM OF 1.5". SIDELAPS: #10 TEX CSREWS, (6) PER SPAN FOR B DECK.

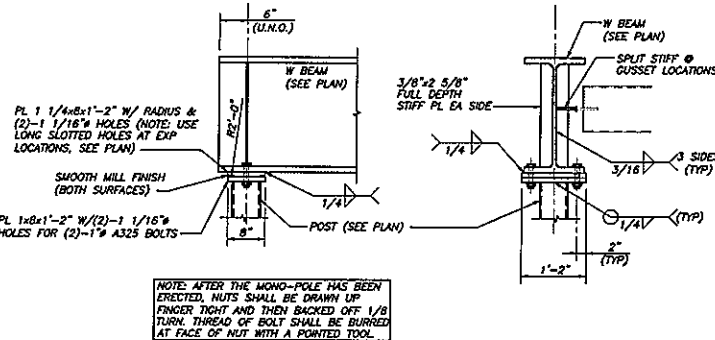
REBAR LAP SPLICE TABLE	
BAR SIZE	LAP LENGTH (5,000 PSI)
#4	20"
#5	26"
#6	30"
#7	54"
#8	62"



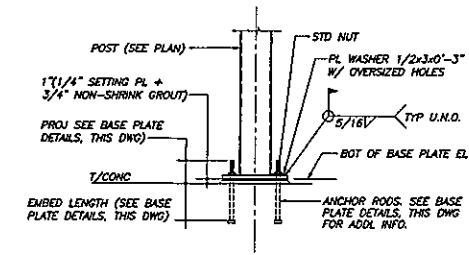
**TYP BEAM TO GIRDER CONN**  
N.T.S.



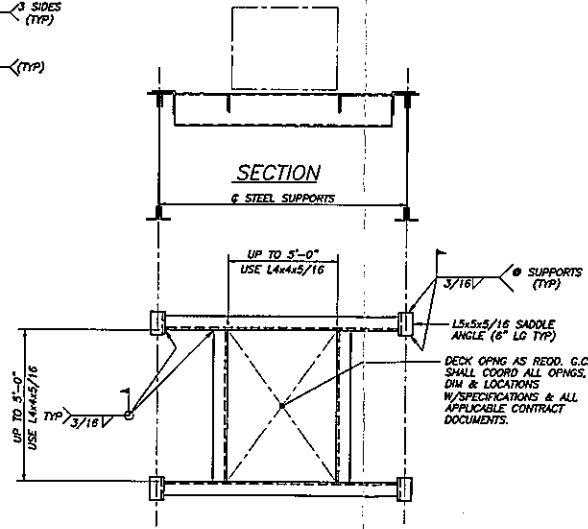
**TYP BASE PLATE DETAILS**  
N.T.S.



**TYP BEAM/POST DETAILS**  
N.T.S.



**TYP POST BASE DETAIL**  
N.T.S.



**PLAN OF TYPICAL OPENING IN ROOF DECK**  
N.T.S.

**NOTE:**  
DETAIL TYPICAL IF OPENING IS LARGER THAN 12\"/>

**BECKER**  
STRUCTURAL ENGINEERS  
200701334 • PORTLAND, MAINE

STATE OF MAINE  
BRYSON I. WELCH  
No. 11794  
Professional Seal

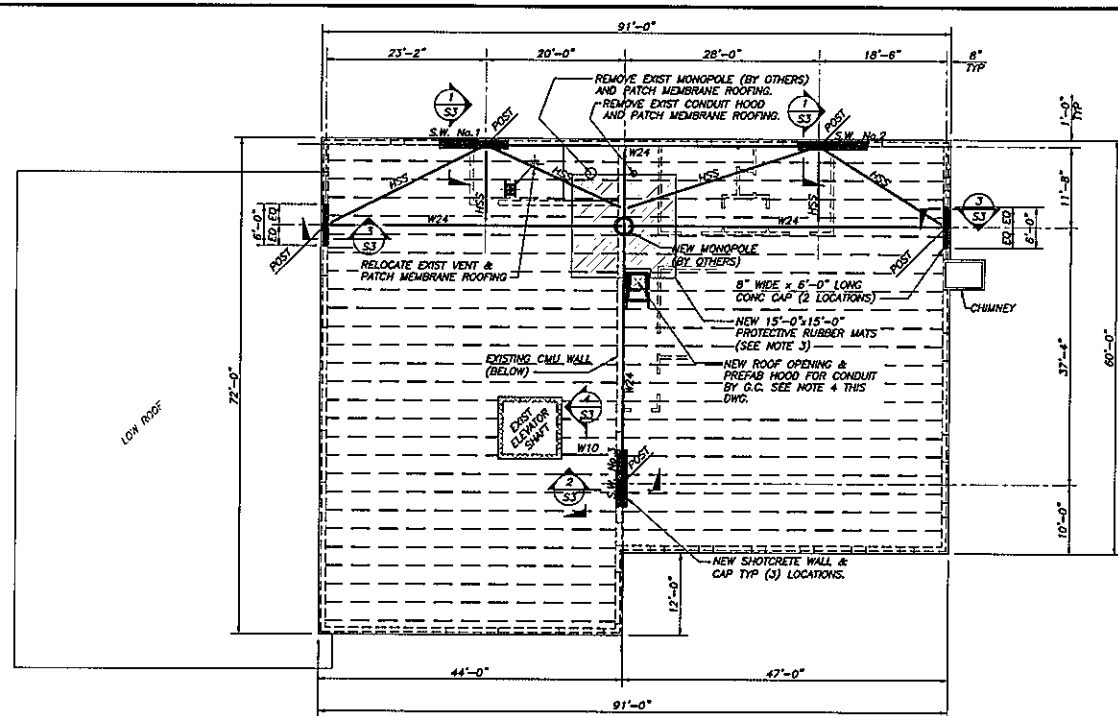
PFD MUNJOY HILL FIRE STATION  
MONO-POLE INSTALLATION  
PORTLAND, MAINE

GENERAL NOTES

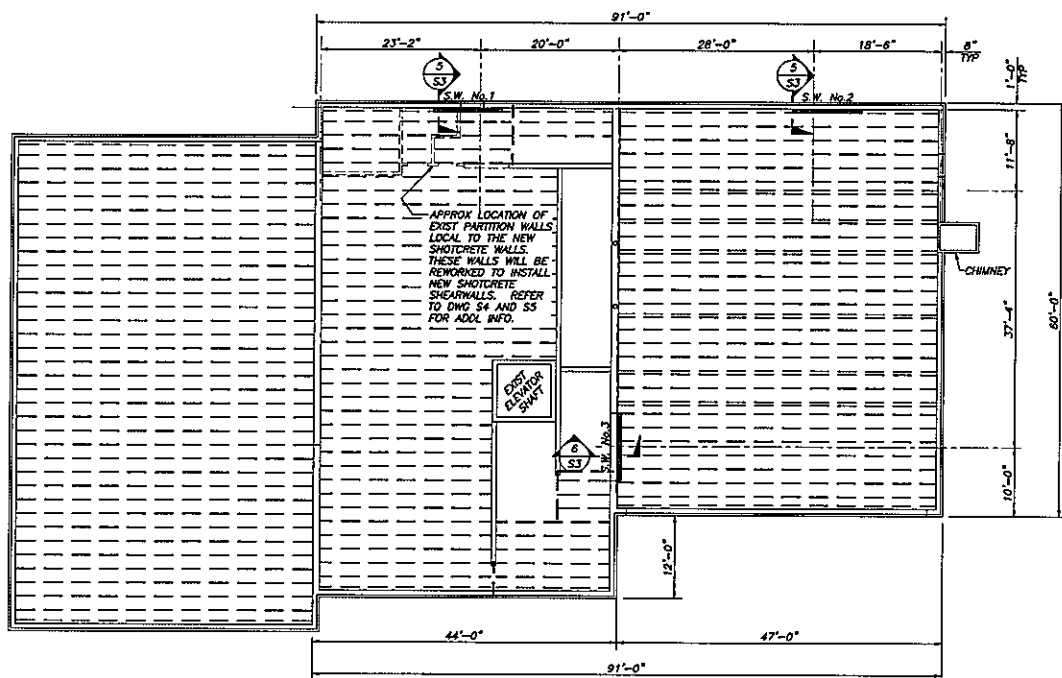
Designed BTW	Scale NOTED
Drawn APP	Date 03/19/12
Checked PBB	Order Job Number 2512

**50**

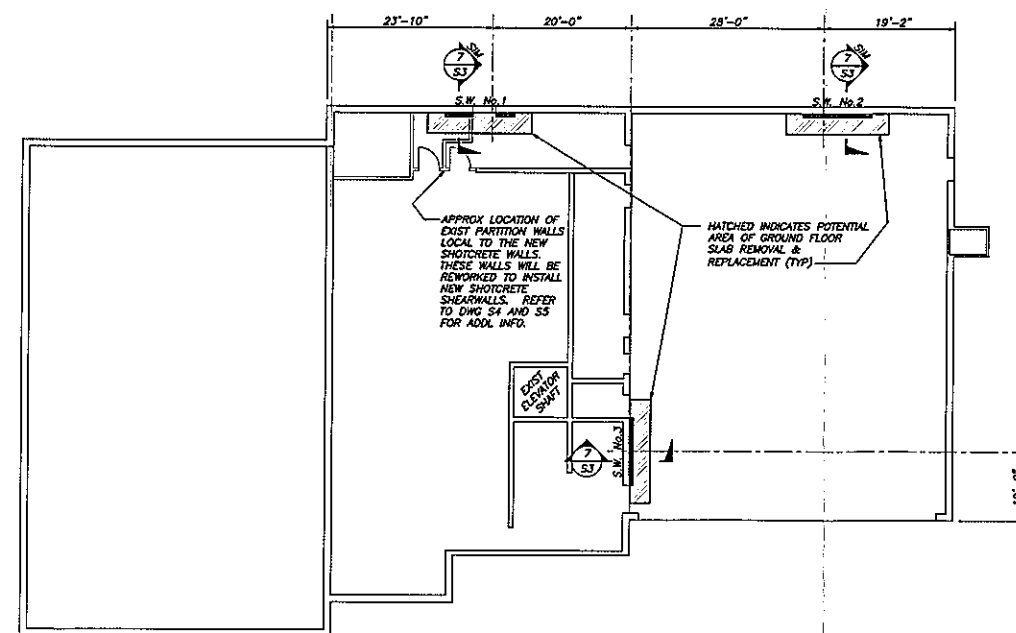
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EXIST ROOF FRAMING PLAN  
3/32=1'-0"



EXIST SECOND FLOOR FRAMING PLAN  
3/32=1'-0"



EXIST GROUND FLOOR PLAN  
3/32=1'-0"

FRAMING PLAN NOTES:

- EXISTING MONOPOLE REMOVAL, COMMUNICATIONS SWITCHOVER, NEW MONOPOLE PROCUREMENT & ERECTION BY OTHERS. REF CITY OF PORTLAND SPECIAL PROVISIONS OF THE SPECIFICATIONS FOR ADDL INFO.
- S.W. No. X = NEW SHEARWALL LOCATION.
- ALL DIMENSIONS, EXIST CONDITIONS AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. MODIFY NEW STEEL POST LOCATIONS TO AVOID IMPACTING EXIST HOISTS.
- FOR ADDITIONAL INFORMATION ON EXIST BUILDING, SEE MUNJOY HILL NEIGHBORHOOD FACILITY AND FIRE STATION, PORTLAND, MAINE, DATED AUGUST 30, 1976.
- NEW PROTECTIVE RUBBER MATS SHALL BE FIRESTONE QUACKSAM WALKWAY PADS (BLACK), OR APPROVED EQUAL. SUBMIT SHOP DWG & INSTALLATION PLAN. INSTALL THE WALKWAY PADS PER MANUFACTURERS RECOMMENDATIONS. CONSULT WITH CITY PRIOR TO INSTALLATION.
- NEW ROOF-TOP HOOD FOR CONDUIT. COORDINATE INSTALLATION WITH CITY OF PORTLAND COMMUNICATIONS CONSULTANT NORM BOUCHER PHONE # 603-905-9406. FOLLOW MANUFACTURERS INSTALLATION REQUIREMENTS AND PAINT SYSTEM REQUIREMENTS. COLOR SHALL MATCH EXISTING ROOF (FLAT BLACK). COLOR SAMPLE SHALL BE SUBMITTED TO OWNER PRIOR TO FABRICATION FOR APPROVAL. PROVIDE ONE OF THE FOLLOWING HOODS OR APPROVED EQUAL:

- CONNECT-IT: C1W-365 (1 UNIT)  
EP4-44 (1 UNIT)  
EP-24 (16 UNITS)
- SITEPRO-1: SP3656 (1 UNIT)  
E1447 (1 UNIT)  
E-C7 (16 UNITS)

STEEL PROCUREMENT:

- FOR SCHEDULE CONSIDERATIONS, THE CITY WILL PROCURE MAJOR STRUCTURAL STEEL ELEMENTS INCLUDING BEAMS, BRACES, AND POSTS. THESE MATERIALS WILL BE DELIVERED TO THE SELECTED CONTRACTOR'S FABRICATOR; COORDINATION OF DELIVERY TIMING BY THE SELECTED CONTRACTOR.
- CONTRACTOR'S FABRICATOR WILL PROVIDE SHOP DRAWINGS, ERECTION PLANS, MISC. METAL PLATES AND ANGLES RESPONSIBLE FOR SHOP PAINTING AND INSTALLATION.
- THE SUPPLIER SHALL PROVIDE A COPY OF THE CERTIFIED MILL TEST REPORTS FOR ALL MATERIAL TO THE STRUCTURAL ENGINEER.
- THE FOLLOWING IS A LIST OF THE STEEL PROCURED BY THE CITY OF PORTLAND:

DISC.	QUANTITY	LENGTH (FEET)
W24x182	2	53
W24x182	2	50
HSS10x4x1/4	1	35
HSS10x4x1/4	1	30
HSS10x4x1/4	2	23
HSS10x4x1/4	2	15
W10x19	1	15
6" EXTRA STRONG PIPE	1	15

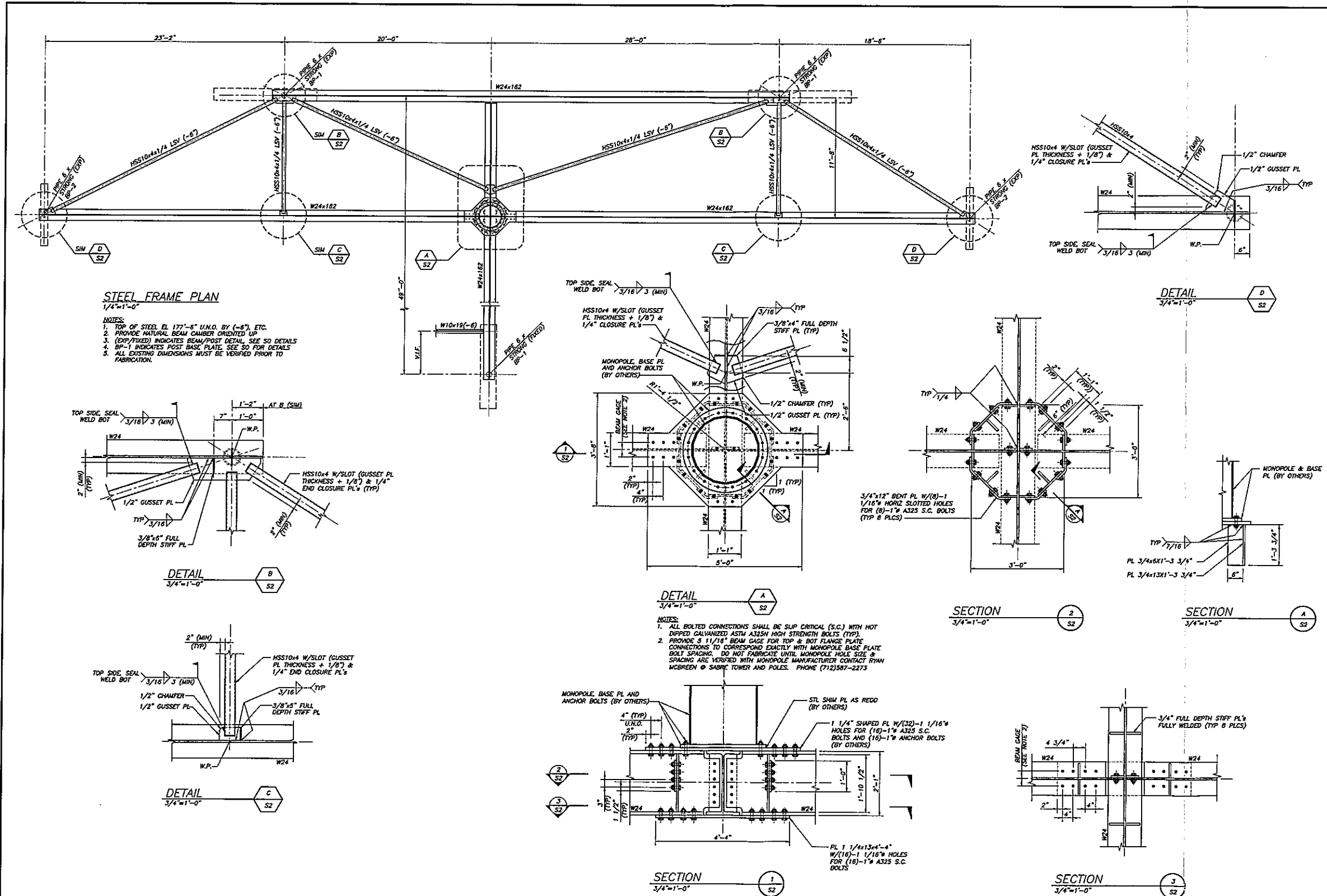


PFD MUNJOY HILL FIRE STATION  
MONO-POLE INSTALLATION  
PORTLAND, MAINE  
FRAMING PLANS

Designed STW	Scale NOTED
Drawn APP	Date 03/19/12
Checked FBB	Becker Job Number 2612

S1

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**BECKER**  
STRUCTURAL ENGINEERS  
200 WEST 33RD ST. SUITE 200  
PORTLAND, MAINE 04102

STATE OF MAINE  
BRYSON T. WELCH  
No. 1178  
Professional Seal

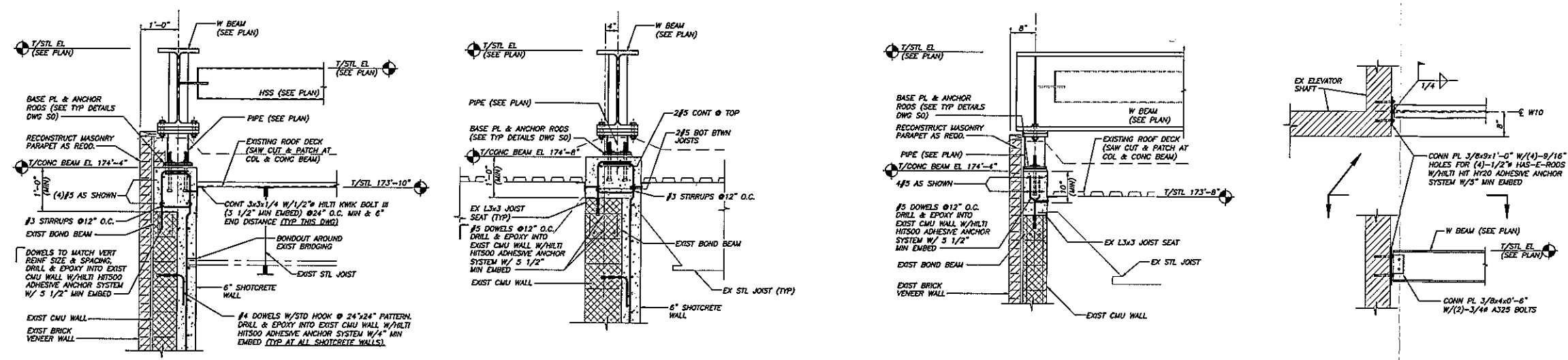
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 Date \_\_\_\_\_  
 Scale \_\_\_\_\_

**PFD MUNJOY HILL FIRE STATION  
MONO-POLE INSTALLATION  
PORTLAND, MAINE**

**FRAME PLAN, SECTIONS & DETAILS**

Designed BYW NOTED  
 Drawn APP Date 03/18/12  
 Checked PFB Review Job Number 2612

**S2**

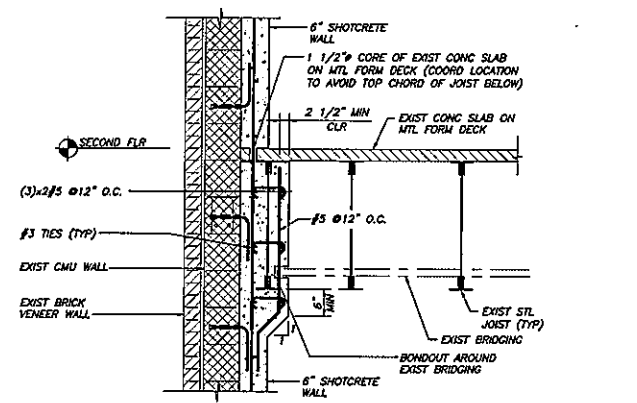


SECTION 1  
3/4"=1'-0"

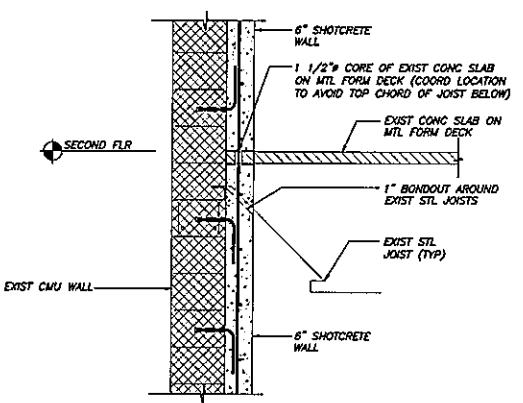
SECTION 2  
3/4"=1'-0"

SECTION 3  
3/4"=1'-0"

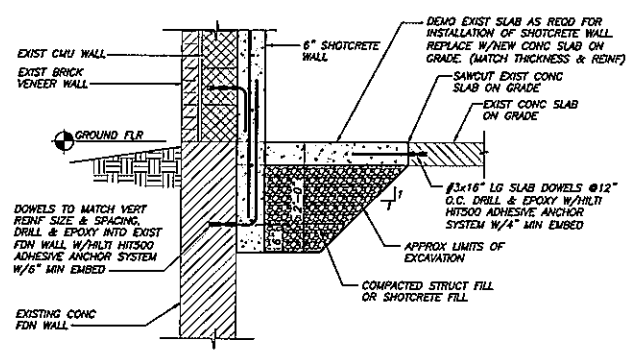
SECTION 4  
3/4"=1'-0"



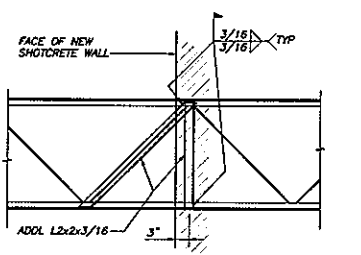
SECTION 5  
3/4"=1'-0"



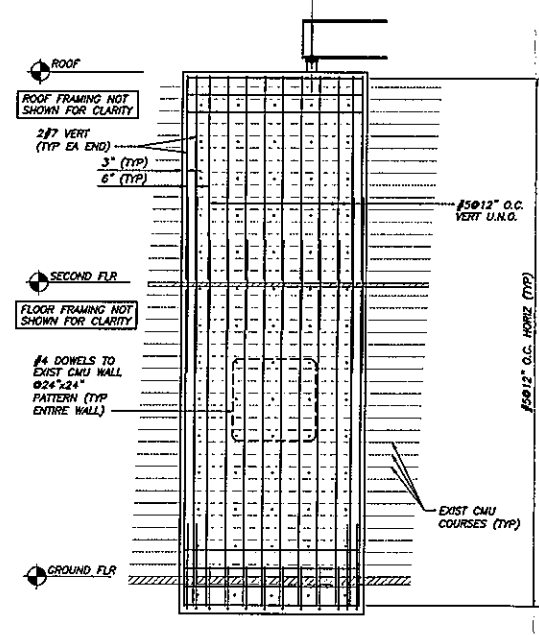
SECTION 6  
3/4"=1'-0"



SECTION 7  
3/4"=1'-0"



TYP EXIST JOIST REINF DETAIL @ SHOTCRETE WALL



TYPICAL 6" SHOTCRETE WALL ELEVATION  
1/4"=1'-0"

- NOTES:
1. SEE PLANS AND ELEVATIONS FOR LOCATIONS AND EXTENTS.
  2. SEE SECTIONS AND DETAILS DWG S3 FOR ADDL INFO.
  3. VERTICAL REBAR MATS SHALL BE LOCATED IN CENTER OF WALL THICKNESS.

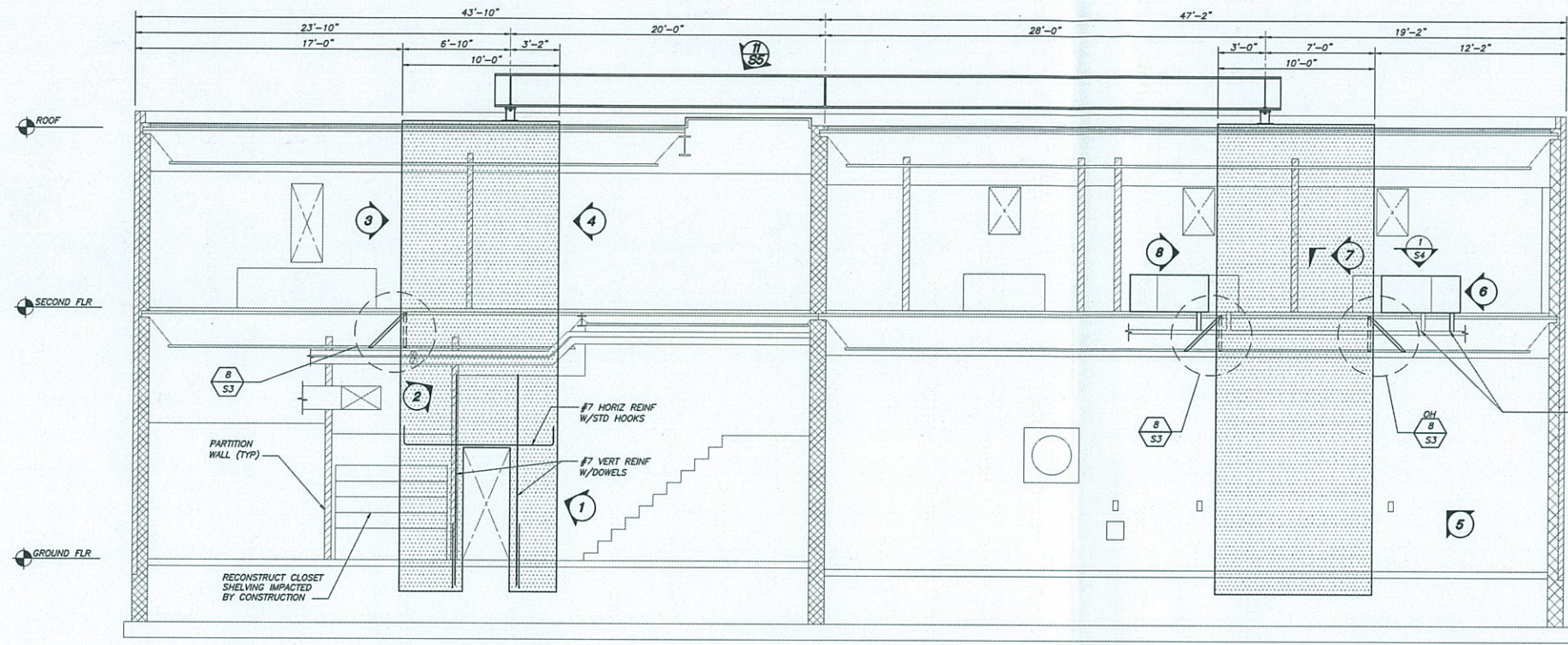
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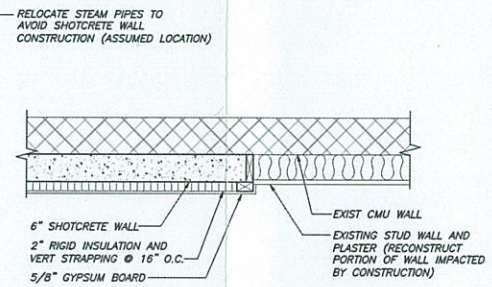
STATE OF MAINE  
BRYSON T. WELCH  
No. 1178  
Professional Engineer

PFD MUNJOY HILL FIRE STATION  
MONO-POLE INSTALLATION  
PORTLAND, MAINE  
SECTIONS & DETAILS

Designed ETW	Scale NOTED
Drawn APP	Date 03/19/12
Checked PFB	Becker Job Number 2612



NOTES PERTAINING TO REWORK OF EXISTING WALLS, UTILITIES, FINISHES AND M.E.P. APPLIANCES AS INDICATED ON THE PLANS AND AS OBSERVED IN THE FIELD BY THE CONTRACTOR IN COURSE OF EXECUTION OF WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS, IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF CARE TO A CONDITION WHICH MEETS OR EXCEEDS EXISTING FIT, FINISH, AND FUNCTION.



**SHOTCRETE WALL NO. 1 ELEVATION**  
1/4"=1'-0"

- NOTES:  
 1. [Hatched pattern] INDICATES NEW 6" SHOTCRETE WALL.  
 2. SEE DWG S3 FOR TYPICAL SHOTCRETE DETAILS & REINFORCING LAYOUT & DWG S5 FOR CONSTRUCTION SEQUENCE NOTES.  
 3. FOR ADD. INFO ON EXISTING BUILDING, SEE MUNJOY HILL NEIGHBORHOOD FACILITY AND FIRE STATION, PORTLAND MAINE DATED AUG. 30 1976.

**SHOTCRETE WALL NO. 2 ELEVATION**  
1/4"=1'-0"

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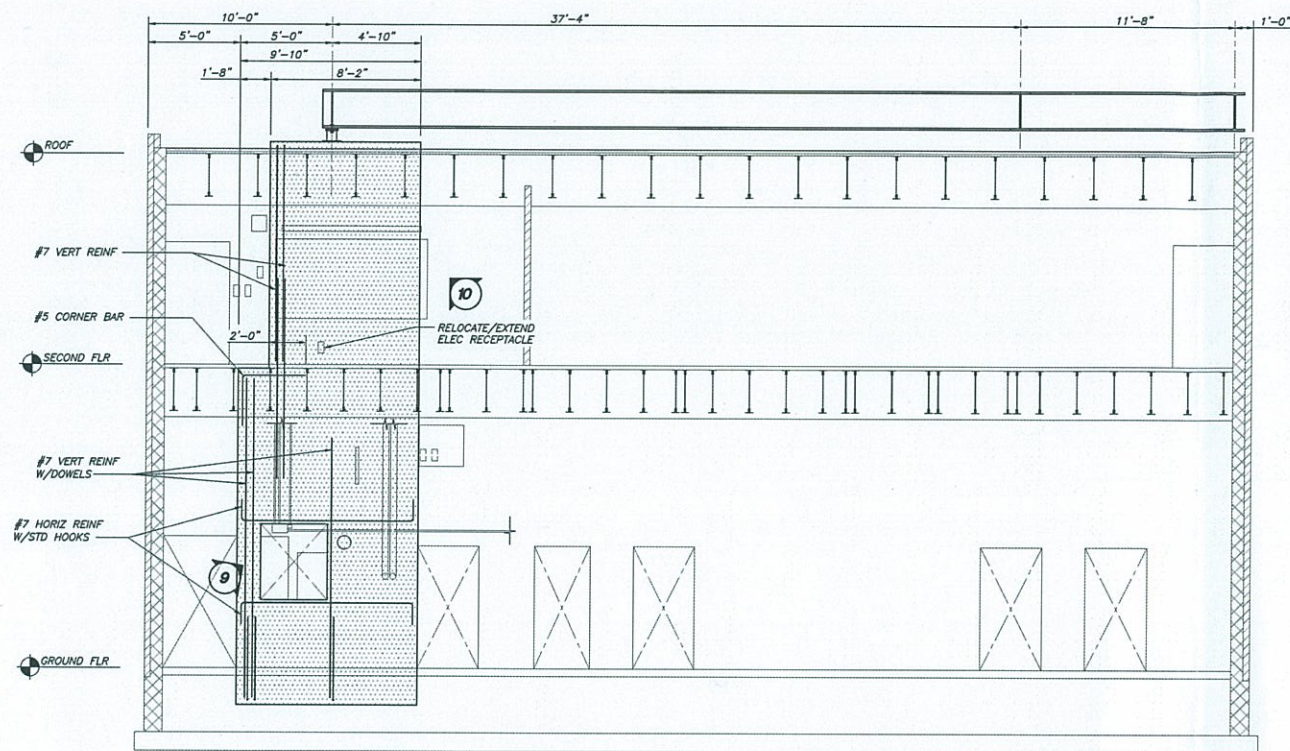
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STRUCTURAL ENGINEERS  
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STATE OF MAINE  
BRYSON T. WELCH  
No. 1778  
Professional Engineer

Project: PFD MUNJOY HILL FIRE STATION MONO-POLE INSTALLATION PORTLAND, MAINE  
Shotcrete Wall Elevations

Designed: BTW	Scale: NOTED
Drawn: APP	Date: 03/19/12
Checked: PBB	Becker Job Number: 2612

**S4**



**SHOTCRETE WALL NO. 3 ELEVATION**

1/4" = 1'-0"

**NOTES:**

1. [Hatched pattern] INDICATES NEW 6" SHOTCRETE WALL.
2. SEE DWG S3 FOR TYPICAL SHOTCRETE DETAILS & REINFORCING LAYOUT & THIS DWG FOR CONSTRUCTION SEQUENCE NOTES.
3. FOR ADDL INFO ON EXISTING BUILDING, SEE MUNJOY HILL NEIGHBORHOOD FACILITY AND FIRE STATION, PORTLAND MAINE DATED AUG. 30 1976.
4. SEE DWG S4 FOR NOTES PERTAINING TO REWORK OF EXISTING WALLS, UTILITIES, ETC.

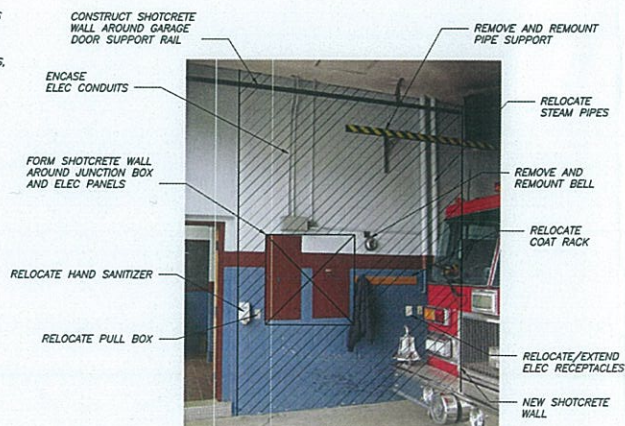


PHOTO - 9

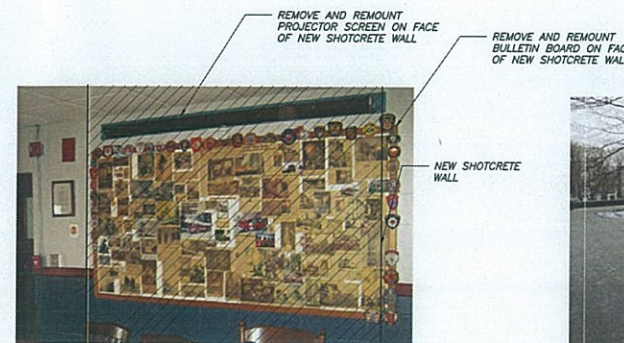


PHOTO - 10

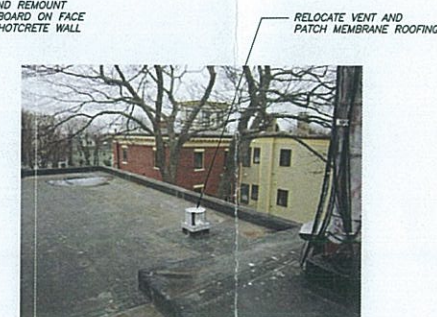


PHOTO - 11  
S4

**SHOTCRETE WALL NOTES**

1. SHOTCRETE WALLS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
2. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE SHOTCRETE WALL CONSTRUCTION, INCLUDING DESCRIPTION OF CONSTRUCTION METHODS AND CONSTRUCTION SEQUENCING. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.
3. PROVIDE A SMOOTH GUN FINISH TO SURFACE OF SHOTCRETE WALLS. A MOCK-UP SHALL BE PROVIDED DURING THE FIRST PLACEMENT TO VERIFY SHOTCRETE WALL FINISH.
4. REMOVE AND RECONSTRUCT CEILING TILE, LIGHTS, FLOOR FINISHES AND WALL FINISHES TO MATCH EXISTING WHERE IMPACTED BY CONSTRUCTION.

**SHOTCRETE CONSTRUCTION SEQUENCE NOTES**

1. SHOTCRETE WALLS ARE TO BE CONSTRUCTED FROM THE LOWEST LEVEL AND CONTINUE UP THE BUILDING.
2. RELOCATE OR PROVIDE TEMPORARY SUPPORT FOR EXISTING MECHANICAL EQUIPMENT.
3. SAW CUT AND DEMO EXISTING CONCRETE SLAB ON GRADE.
4. EXCAVATE TO NEW BOTTOM OF SHOTCRETE WALL ELEVATION.
5. REMOVE FLOOR FINISHES FROM THE EXISTING SECOND FLOOR CONCRETE SLAB. MECHANICALLY REMOVE PAINT FROM THE CMU BLOCK WALL.
6. DRILL AND EPOXY REINFORCEMENT INTO EXISTING FOUNDATION AND CMU BLOCK WALL AS SHOWN.
7. CORE HOLES FOR VERTICAL REINFORCING IN EXISTING FLOOR SLAB ABOVE.
8. INSTALL REINFORCING FOR SHOTCRETE WALL AND FORM AROUND EXISTING MECHANICAL THAT HAS NOT BEEN RELOCATED.
9. FORM AND PLACE SHOTCRETE WALL TO BOTTOM OF FLOOR SLAB ABOVE.
10. BACKFILL EXCAVATION WITH STRUCTURAL FILL OR FLOWABLE FILL.
11. CONSTRUCT SLAB ON GRADE.
12. REPEAT STEPS AS REQUIRED FOR SHOTCRETE WALLS ON SECOND FLOOR ABOVE.
13. SHOTCRETE CONSTRUCTION SEQUENCE NOTES ARE FOR REFERENCE ONLY. G.C. TO SUBMIT CONSTRUCTION SEQUENCE PLAN FOR REVIEW BY STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF WORK.

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Project	
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Date	
Rev. No.	

PDF MUNJOY HILL FIRE STATION  
MONO-POLE INSTALLATION  
PORTLAND, MAINE  
SHOTCRETE WALL ELEVATIONS

Designed	Scale
BTW	NOTED
Drawn	Date
APP	03/19/12
Checked	Becker Job Number
PBB	2612

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