

**COMPONENTS AND CLADDING PRESSURES (PSF) U.N.O.**

- ZONE 1: +30.1 / -47.7
- ZONE 2: +30.1 / -83.2
- ZONE 3: +30.1 / -123.1
- ZONE 4: +52.2 / -56.6
- ZONE 5: +52.2 / -69.9

# PERMIT PLANS

## FOR:

# EMS STATION BUILDING -SEBRING PARKWAY SITE-



|   |   |
|---|---|
| DESIGN DATA   |   |
| CODE CONFORMANCE REVIEW:  |   |
| APPLICABLE CODES:   |   |
| FLORIDA BUILDING CODE 5th Edition   | FLORIDA MECHANICAL CODE 5th Edition       |
| FLORIDA PLUMBING CODE 5th Edition   | NATIONAL ELECTRICAL CODE (LATEST EDITION) |
| FLORIDA FIRE PREVENTION CODE (LATEST EDITION)   |   |
| DESIGN ITEM   | REQUIRED DESIGNED                         |
| OCCUPANCY CLASSIFICATION (MIXED)  | BUSINESS - B, RESIDENTIAL R-2             |
| CONSTRUCTION TYPE   | TYPE III-B, SPRINKLED                     |
| BUILDING HEIGHT AND AREAS<br>Allowable Heights (sprinkled)<br>Allowable Stories (sprinkled)<br>Allowable One Story Area (sprinkled) | 55 feet<br>THREE story<br>19,000 sq ft    |
|   | 18.00 feet<br>one story<br>3,241 proposed |
| MINIMUM OCCUPANT LOAD FOR EGRESS CAPACITY   | TOTAL OCCUPANT LOAD 25                    |
| WIND DESIGN CRITERIA  | 150 m.p.h.                                |
| Roof angle (degrees)  | 22.62 degrees                             |
| Exposure Category   | C   |
| Internal Pressure Coefficient   | +/-0.18                                   |
| (h) Mean roof height  | 18.00 feet                                |
| <b>ROOF DESIGN LOADS</b>  |   |
| TOP CHORD LIVE LOAD: 20 psf   |   |
| TOP CHORD DEAD LOAD: 10 psf   |   |
| BOTTOM CHORD LIVE LOAD: NON-CONCURRENT 10 psf   |   |
| BOTTOM CHORD DEAD LOAD: 10 psf  |   |
| <b>ALL GLAZING SHALL BE LARGE AND SMALL MISSILE IMPACT RATED.<br/>(INCLUDING EXTERIOR DOORS &amp; OVERHEAD GARAGE DOORS)</b>        |   |

**SITE ADDRESS:**  
313 N. EUCALYPTUS ST.  
SEBRING, FLA. 33870

**OWNER:**  
HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS  
P.O. BOX 1926  
SEBRING, FLA. 33871-1926

**LIVING SPACE 1,896**  
**GARAGE SPACE 1,272**  
**COVERED ENTRY 73**  
**TOTAL 3,241 SQ. FT.**

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9. DOOR & WINDOW BUCK DETAILS
10. HANDI-CAP BATH DETAILS
11. BATH #2 DETAILS
12. KITCHEN CABINET DETAILS & SPECS.
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17. ELECTRICAL RISER & PANEL SCHEDULE
18. PLUMBING PLAN
19. PLUMBING RISER & SPECS.
20. SECURITY PLAN

|   |           |            |            |           |           |
|---|-----------|------------|------------|-----------|-----------|
|   | DR        | CH         |            |           |           |
| DATE:   | 9-8-2015  | 9-25-2015  | 10-15-2015 | 2-25-2016 | 8-5-2016  |
| 9-8-2015  | 9-25-2015 | 10-15-2015 | 2-25-2016  | 8-5-2016  | 8-16-2016 |
| CERTIFICATE OF AUTHORIZATION #5884<br>ROGER DALE POLSTON P.E. # 33222<br>MARVIN LUTHER WOLFE P.E. # 46030<br><br>8/26/16<br><small>PRINCE GEORGE, MD. CIVIL ENGINEERING CONSULTANTS INC. ORIGINAL SIGNATURE AND STAMP TO U.S.</small> |           |            |            |           |           |
| <br>Polston Engineering Inc.<br><small>CIVIL ENGINEERING CONSULTANTS<br/>2825 KENILWORTH BLVD., SEBRING, FLORIDA 33870<br/>888-305-5304 • 888-305-2462 FAX</small>  |           |            |            |           |           |
| Highlands County<br>Board of County Commissioners<br>SEBRING PARKWAY<br>EMS STATION BUILDING  |           |            |            |           |           |
| DRAWING:  |           |            |            |           |           |
| COVER SHEET   |           |            |            |           |           |
| SCALE:  |           |            |            |           |           |
| SHEET #   |           |            |            |           |           |

WO# 15071





**FRONT ELEVATION**

DOWNSPOUTS AS SHOWN AT FRONT OF BUILDING SHALL DRAIN TO SIDEWALK. (SEE SITE PLAN)

DOWNSPOUTS AS SHOWN AT FRONT OF BUILDING SHALL DRAIN TO PAVEMENT. (SEE SITE PLAN)



**REAR ELEVATION**

ALL 5 DOWN SPOUTS SHOWN AT REAR OF BUILDING TO BE CONNECTED INTO 8" HDPE DRAIN PIPE W/ 6" FLEX TUBING AND 6" TEE. (SEE SITE PLAN)

| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #5684  
 ROGER DALE POLSTON P.E. # 33222  
 MARVIN LUTHER WOLFE P.E. # 46050

*[Signature]*  
*[Signature]*

PROFES. ENGINEER FOR FLORIDA  
 PROFESSIONAL SEAL AND REGISTERED

**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS  
 2825 KENYON BLVD. SUITE 1000  
 BOCA RATON, FLORIDA 33470  
 561-365-1454 • 561-365-0242 FAX

**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

WO# 15071

**DRAWING:**  
 FRONT & REAR ELEVATIONS

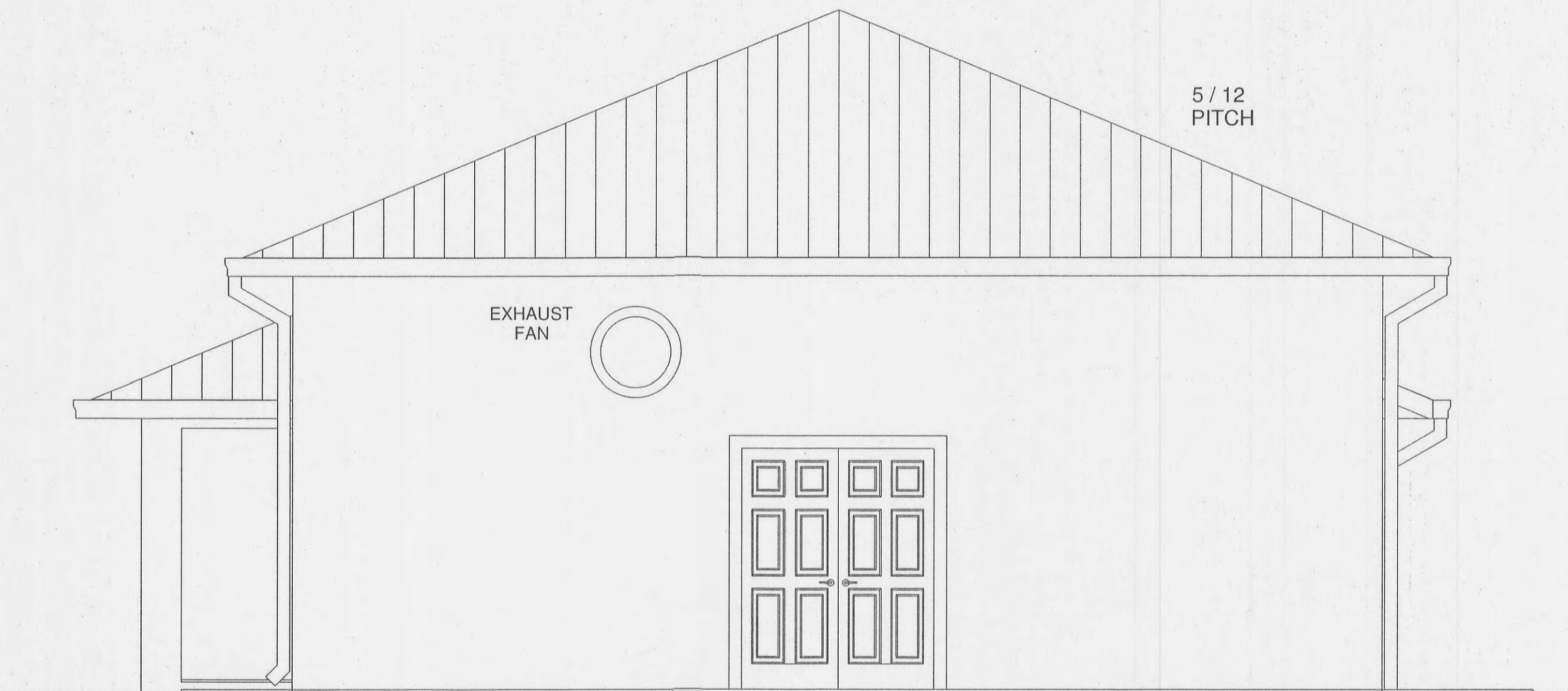
**SCALE:**  
 1/4" = 1'-0"

**SHEET #** 1





**LEFT SIDE ELEVATION**



**RIGHT SIDE ELEVATION**

| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6884  
 ROGER DALE POLSTON, P.E. # 53222  
 MARVIN LUTHER WOLFE, P.E. # 4630

*MP*  
*MLW*

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 ORCAD 2016.0 AND WINDCHILL



**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

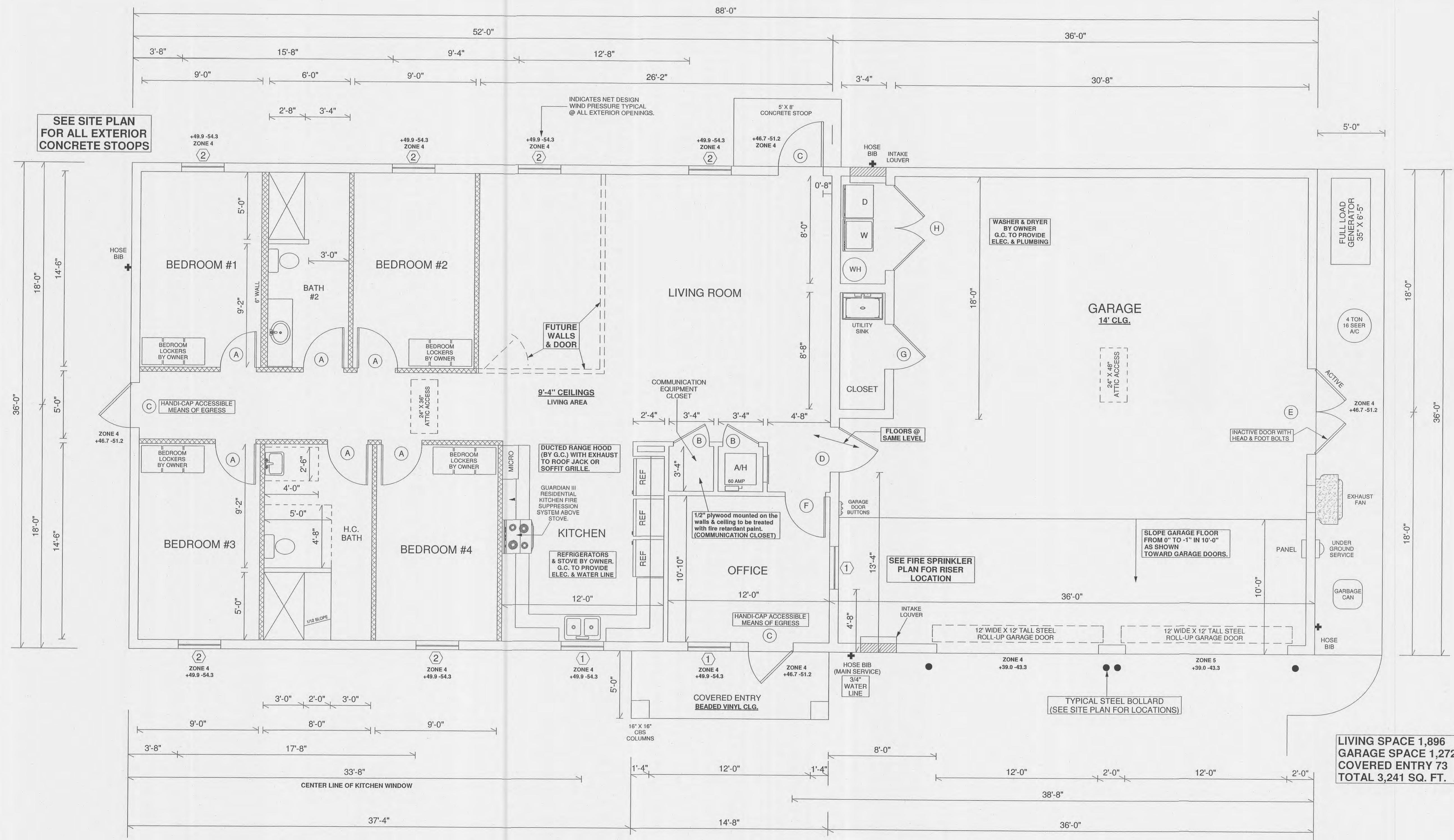
WO# 15071

**DRAWING:**  
 LEFT & RIGHT  
 ELEVATIONS

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

**SHEET #** 2





LIVING SPACE 1,896  
GARAGE SPACE 1,272  
COVERED ENTRY 73  
TOTAL 3,241 SQ. FT.

**DOOR & FRAME SCHEDULE**

| NO. | SIZE   | TYPE                      | FINISH | FRAME            | HARDWARE                                 | NOTES                                 | MANUFACTURER |
|-----|--------|---------------------------|--------|------------------|--|---------------------------------------|--------------|
| A   | 3068   | 6 PANEL 1 HOUR SOLID CORE | PAINT  | 1 1/2 HOUR RATED | FLAT LEVER DOOR KNOBS WITH WALL STOP     | AUTO CLOSER PRIVACY LOCK              |              |
| B   | 2888   | 6 PANEL MASONITE          | PAINT  | WOOD             | FLAT LEVER DOOR KNOBS                    |                                       |              |
| C   | 3080   | 6 PANEL FIBERGLASS        | PAINT  | COMPOSITE        | FLAT LEVER DOOR KNOBS                    | DEAD BOLT SINGLE CYLINDER AUTO CLOSER | THERMA-TRU   |
| D   | 3068   | FLAT PANEL FIBERGLASS     | PAINT  | COMPOSITE        | FLAT LEVER DOOR KNOBS                    |                                       | THERMA-TRU   |
| E   | 2-3080 | 6 PANEL FIBERGLASS        | PAINT  | COMPOSITE        | FLAT LEVER DOOR KNOBS WITH OVERHEAD STOP | DEAD BOLT SINGLE CYLINDER             | THERMA-TRU   |
| F   | 3068   | 6 PANEL MASONITE          | PAINT  | WOOD             | FLAT LEVER DOOR KNOBS WITH WALL STOP     | NO LOCKING MECHANISM                  |              |
| G   | 3068   | FLAT PANEL FIBERGLASS     | PAINT  | COMPOSITE        | FLAT LEVER DOOR KNOBS WITH OVERHEAD STOP | NO LOCKING MECHANISM                  | THERMA-TRU   |
| H   | 2-3068 | FLAT PANEL FIBERGLASS     | PAINT  | COMPOSITE        | FLAT LEVER DOOR KNOBS WITH OVERHEAD STOP | NO LOCKING MECHANISM                  | THERMA-TRU   |

**NOTES:**  
1. ALL INTERIOR WOOD DOOR CASINGS SHALL BE (2 1/4" COLONIAL, FINGER JOINT, PAINT GRADE)  
2. ALL DOOR HARDWARE SHALL BE (SCHLAGE BRAND, BRUSHED NICKLE) INTERIOR & EXTERIOR.

**WINDOW SCHEDULE**

| NO. | TYPE  | FRAME MATERIAL | COLOR | ROUGH BLOCK OPENING -VERIFY- | SCREEN   | GLAZING                                    | MANUFACTURER              |
|-----|-------|----------------|-------|------------------------------|----------|--|---------------------------|
| 1   | 24 SH | VINYL          | WHITE | 38" WIDE X 50 5/8" HIGH      | STANDARD | LO-E (ENERGY SHIELD) TINTED (SUPER SPACER) | PGT WINDGUARD SERIES 5500 |
| 2   | 25 SH | VINYL          | WHITE | 38" WIDE X 63" HIGH          | STANDARD | LO-E (ENERGY SHIELD) TINTED (SUPER SPACER) | PGT WINDGUARD SERIES 5500 |

NOTE: ALL ROUGH BLOCK OPENINGS SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR PRIOR TO START OF WALL & FOUNDATION CONSTRUCTION. -TYPICAL-  
ALL GLAZING SHALL BE LARGE AND SMALL MISSILE IMPACT RATED. (INCLUDING EXTERIOR DOORS & OVERHEAD GARAGE DOORS)

**INTERIOR FIRE RATED WALL LEGEND**

**INDICATES**  
1 HOUR FIRE PARTITION BETWEEN BUNK ROOMS.  
UL #U305 (OR EQUIVALENT)

U305: 5/8" (15.9mm) Fire-Shield Gypsum Board or 5/8" XP Fire-Shield Gypsum Board applied horizontally or vertically to each side of 2 X 4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or predecorated wall board may be left exposed. Joints staggered 16" on opposite sides.

**GENERAL NOTES:**

- ALL INTERIOR FRAME WALLS SHALL HAVE R-11 INSULATION.
- ALL INTERIOR WALLS NOT RECEIVING TILE SHALL HAVE A KNOCK DOWN FINISH WITH SQUARE INTERSECTING CORNERS.
- G.C. IS RESPONSIBLE FOR CITY WATER & SEWER HOOK-UP AND ALL IMPACT FEES.
- REFER TO APPROVED SITE PLAN AND LANDSCAPE PLAN FOR: IRRIGATION, LANDSCAPING, PARKING LOT DESIGN, SIDEWALKS AND OTHER SITE DEVELOPMENT REQUIREMENTS.

**PAINT SPECS & INFO:**

ALL INTERIOR & EXTERIOR CONCRETE WALLS AND ALL INTERIOR DRYWALL FINISHED WALLS AND CEILINGS SHALL HAVE ONE COAT PRIMER & TWO COATS SATIN FINISH.  
ALL EXTERIOR WALLS SHALL BE OF SAME COLOR AND ALL WINDOW BANDS SHALL BE OF SAME COLOR.  
ALL INTERIOR WALLS SHALL BE OF SAME COLOR AND ALL CEILINGS SHALL BE OF SAME COLOR.  
ALL EXTERIOR DOORS AND TRIM SHALL HAVE ONE COAT PRIMER & TWO COATS GLOSS FINISH.  
ALL INTERIOR DOORS AND TRIM SHALL BE OF SAME COLOR.  
ALL INTERIOR DOORS AND TRIM SHALL HAVE ONE COAT PRIMER & TWO COATS GLOSS FINISH.

ALL PAINT AND PAINT PRODUCTS SHALL BE LISTED ON THE CURRENT EDITION OF THE MPI APPROVED PRODUCT LIST. PRODUCTS FROM THE FOLLOWING MANUFACTURER'S WILL BE CONSIDERED:

- SHERWIN WILLIAMS - (A-100 OR BETTER)
- BENJAMIN MOORE - (EQUIVALENT TO A-100)
- PORTER PAINTS (ACRI-PRO OR BETTER)

(ALL FINAL PAINT & COLOR SELECTIONS REST WITH THE OWNER)

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|------------|----|----|
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| 10-15-2015 |    |    |
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| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6594  
ROSE DALE POLSTON P.E. #33222  
MARVIN LUTHER WOLFE P.E. #48030

*Alfred*  
*Eric*

REGISTERED PROFESSIONAL ENGINEER  
FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS

**Polston Engineering Inc.**  
CIVIL ENGINEERING CONSULTANTS  
2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
888-355-5566 • 888-380-5462 FAX

**Highlands County**  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

**DRAWING:**  
FLOOR PLAN

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

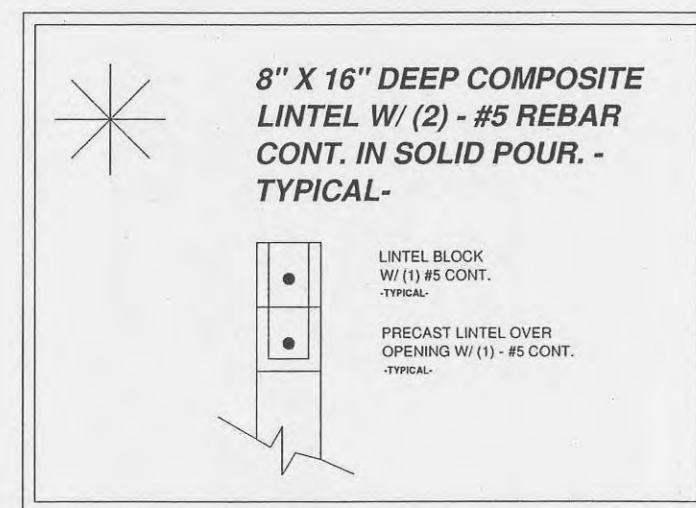
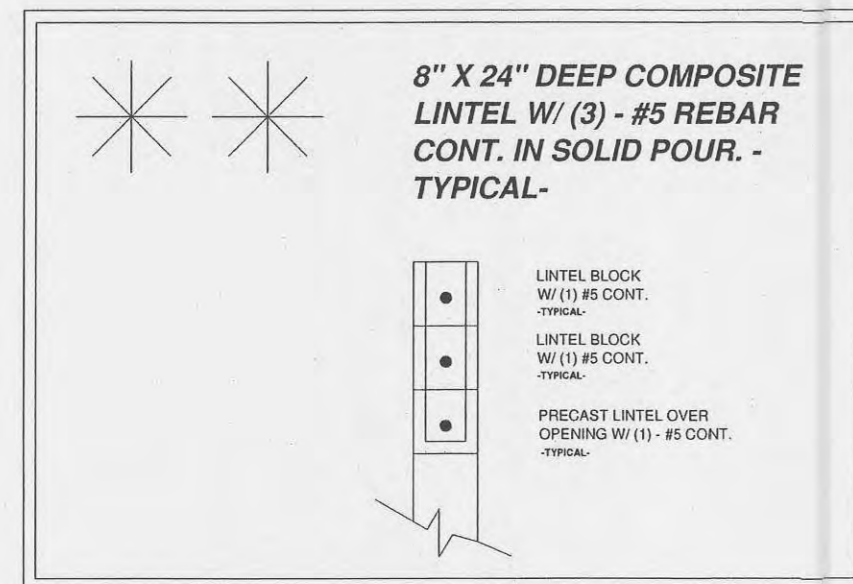
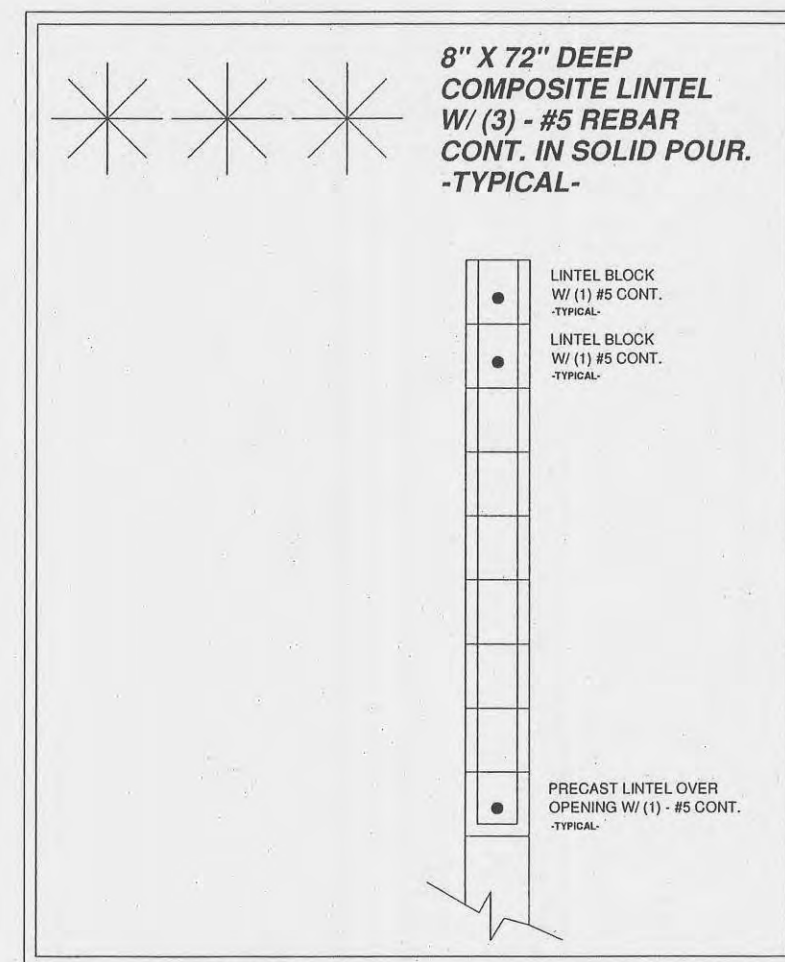
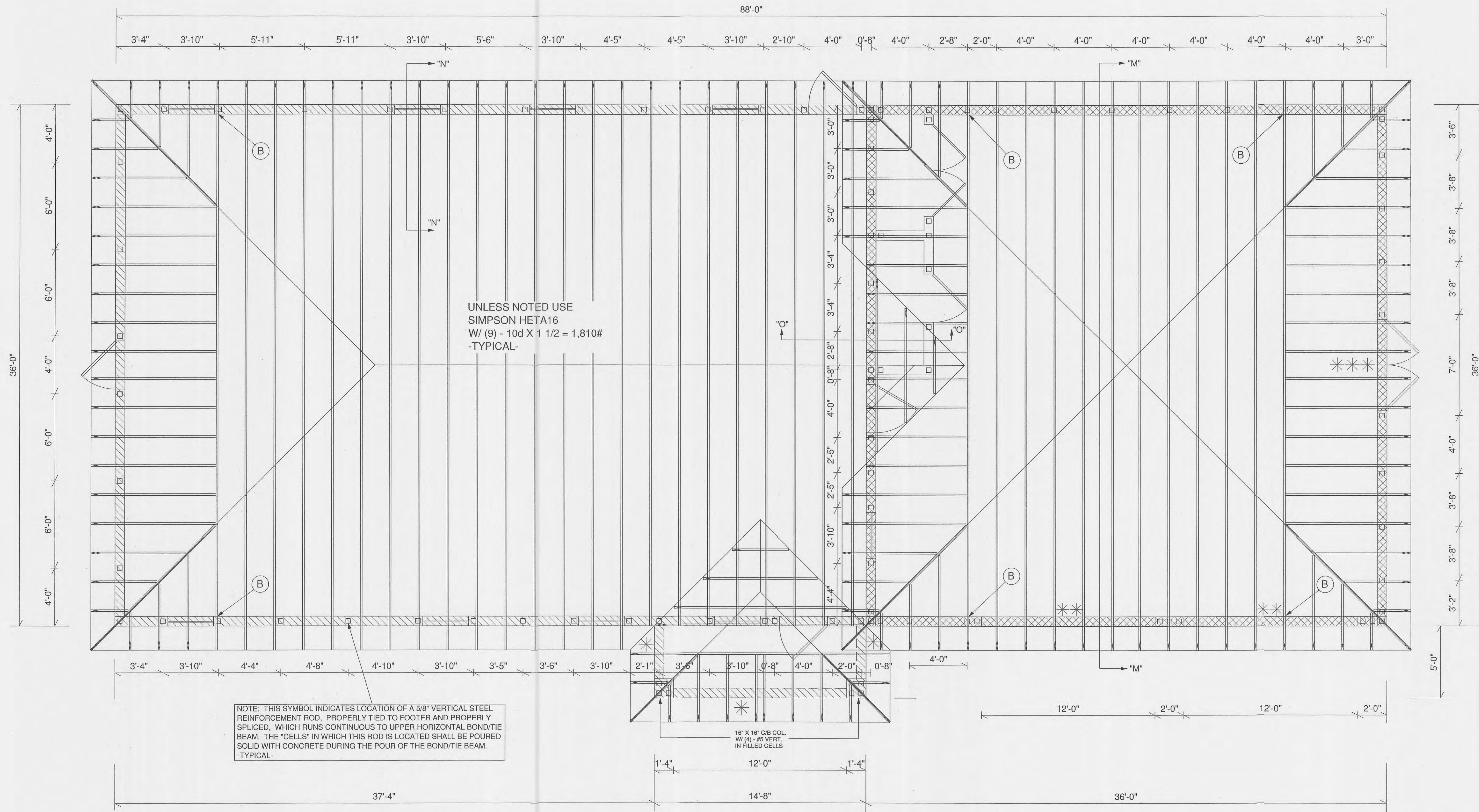
**SHEET #**  
3

WO# 15071









NOTE: PROVIDE 2" X 4" BLOCKING @ 48" O.C. @ THE BOTTOM CHORD OF ALL TRUSSES AT EXTERIOR ENTRIES AND PORCHES (AREAS EXPOSED TO WIND). CEILING SHEATHING IN THOSE AREAS TO BE 5/8" EXTERIOR GRADE DRYWALL OR 1/2" EXTERIOR GRADE PLYWOOD.

- VERTICAL REINFORCEMENT:
1. AT ALL INSIDE & OUTSIDE CORNERS.
  2. AT EACH SIDE OF ALL OPENINGS.
  3. TWO #5 BARS ARE NEEDED AT EACH SIDE OF ALL OPENINGS WIDER THAN 12'-0".
  4. AT ALL LOCATIONS WHERE A GIRDER BEAM OR GIRDER TRUSS BEAR ON MASONRY WALLS.
  5. AT ALL #1 HIP TRUSS LOCATIONS.

(CONCRETE MIXTURE SHALL BE 3,000 PSI) -TYPICAL-

(1) #5 VERTICAL IN FILLED CELL @ 4'-0" O.C. (MAX.) FOR ALL 14'-0" TALL WALLS. VERTICAL DOWN ROD SHALL RUN FROM FOOTING TO TIE LINTEL & ALL STEEL LAPS SHALL BE MIN. OF 30". -TYPICAL-

(1) #5 VERTICAL IN FILLED CELL @ 8'-0" O.C. (MAX.) FOR ALL 9'-4" TALL WALLS. VERTICAL DOWN ROD SHALL RUN FROM FOOTING TO TIE LINTEL & ALL STEEL LAPS SHALL BE MIN. OF 30". -TYPICAL-

STRUCTURAL DESIGN BASED ON TRUSS FRAMING SHOWN. DEVIATION FROM THIS FRAMING MAY VOID STRUCTURAL DESIGN. PROVIDE TRUSS MANUFACTURERS ENGINEERING TO POLSTON ENGINEERING FOR REVIEW AND APPROVAL PRIOR TO ORDERING TRUSSES.

NOTE: ALL TRUSS TO TRUSS CONNECTIONS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER PER ANSI / TPI - 2007

ALL CONTINUOUS LATERAL WEB BRACING SHOWN ON TRUSS DESIGN DRAWINGS, AND ALL BOTTOM CHORD AND PIGGY BACK RAT RUNS TO BE 2 X 4 #3 S.Y.P. AND SHALL BE PROPERLY DIAGONALLY BRACED PER THE LATEST EDITION OF WTCA'S BCSI. CONNECT TO EACH TRUSS W/ (2) 16d NAILS -TYPICAL-

**WALL LEGEND**

- [Symbol] = TRUSS BEARING @ 9'-4" A.F.F.
- [Symbol] = TRUSS BEARING @ 14'-0" ABOVE GARAGE FLOOR

**ANCHORAGE SCHEDULE**

| MODEL | NO.             | FASTENERS | RATED UPLIFT       |        |
|-------|-----------------|-----------|--------------------|--------|
| A     | SIMPSON HETA16  | 1         | (9) - 10d X 1 1/2  | 1,810# |
| B     | SIMPSON HHETA16 | 1         | (10) - 10d X 1 1/2 | 2,235# |

(OR EQUIV.)

NOTE: INSTALL ALL STRUCTURAL HARDWARE ACCORDING TO MANUFACTURERS REQUIREMENTS.

UNLESS NOTED USE SIMPSON HETA16 W/ (9) - 10d X 1 1/2 = 1,810#

| DATE       | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
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| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6584  
ROSEB DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFE P.E. # 49650

*M. Polston*  
*M. Wolfe*

PE  
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**Highlands County**  
Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

WO# 15071

**DRAWING:**  
STRUCTURAL & ROOF FRAMING

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

SHEET # **5**



**GENERAL**

- 1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- 2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.
- 3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- 4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED, SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES.

**CONCRETE AND REINFORCING**

- 1 CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-02)

- 2 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:

|                            | MAX.     | SLUMP | WATER / CMT |
|----------------------------|----------|-------|-------------|
| SLAB ON GRADE & FOUNDATION | 3000 PSI | 6±1"  | 0.62        |
| FILLED CELLS               | 3000 PSI | 9±1"  | 0.65        |
| ALL OTHER CONCRETE         | 3000 PSI | 5±1"  | 0.58        |

- 3 REBARS SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

- 4 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

|                |                |
|----------------|----------------|
| FOOTINGS       | 3"             |
| SLABS ON GRADE | 1 ½" FROM TOP  |
| BEAMS          | 1 ½" (ON TIES) |
| COLUMNS        | 1 ½" (ON TIES) |

- 5 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

|                    |    |
|--------------------|----|
| WELDED WIRE FABRIC | 6" |
|--------------------|----|

LONGITUDINAL FOOTER BARS      MINIMUM 25" LAP

**MASONRY**

- 1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-02 / ASCE 5-02 / TMS 402-02), SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-02 / ASCE 6-02/TMS 602-02) ASTM C476, ASTM C1019, AND NCMA TEK 107.

- 2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90. (F<sub>m</sub> = 1500 PSI) (1900 PSI ON THE NET AREA)

- 3 MORTAR SHALL COMPLY WITH ASTM C270, TYPE M OR S. (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI, RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH)

- 4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.

- 5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.

- 6 THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2"x3". MORTAR FIN MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

- 7 WHERE SHOWN, CELLS OF BLOCK MASONRY SHALL BE FILLED WITH GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, AND MEET ASTM C476. GROUT SHALL BE PROVIDED BY CONCRETE SUPPLIER FROM THEIR BATCH PLANT WITH A SLUMP OF 8" TO 10". JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. TESTING SHALL CONFORM TO ASTM C1019.

- 8 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED FOUR (4) FEET IN HEIGHT. FILLED CELLS SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING BETWEEN LIFTS.

- 9 PROVIDE KNOCK-OUT CMU AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK-OUT AT BASE OF LIFT WILL NOT BE REQUIRED).

- 10 VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. MIN VERTICAL BAR LAP = 40 X BAR DIAMETER. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 192 X BAR DIAMETER NOR 10 FT.

- 11 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHOULD BE STOPPED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.

- 12 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.

- 13 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

- 14 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.

- 15 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.

- 16 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.

17. TYPICAL HORIZONTAL WALL REINFORCING SHALL BE PREFABRICATED, GALVANIZED, LADDER TYPE, MINIMUM TWO 9-GUAGE WIRES WITH CROSS TIES. USE PREFABRICATED L'S AT CORNERS AND T'S AT WALL INTERSECTIONS WITH SAME GAUGE WIRE. HORIZONTAL REDINFORCING AT 16" O.C. VERTICALLY STARTING AT THE FIRST COURSE ABOVE THE FOUNDATION USING 6" LAP SPLICE. (FOR WALLS 10'-0" HIGH OR MORE ONLY)

| DATE:      | DR | CH |
|------------|----|----|
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| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #654  
 EXPIRES DATE POLSTON P.E. # 33223  
 MARVIN LUTHER WOLFE P.E. # 49030

*Marvin Luther Wolfe*  
 B2616



**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

**DRAWING:**  
 STRUCTURAL  
 NOTES

**SCALE:**  
 N/A

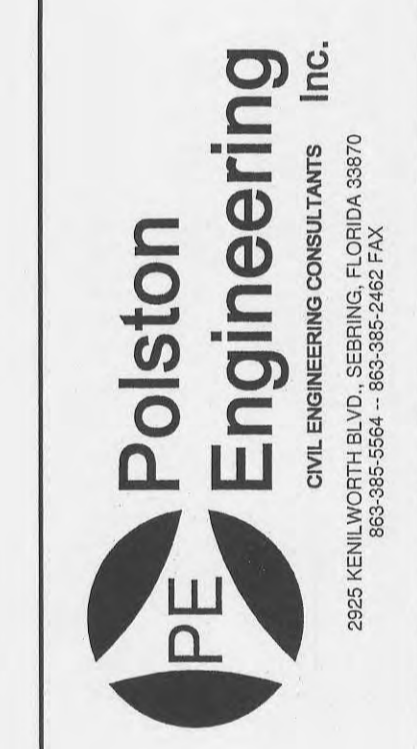
**SHEET #**      **6**

WO# 15071



| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6594  
 ROGER DALE POLSTON, P.E. # 33222  
 MARVIN LUTHER WOLFE, P.E. # 46030  
 PE  
 8/26/16  
 CIVIL ENGINEERING CONSULTANTS  
 INC.  
 2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
 883-365-1564 • 883-365-3462 FAX



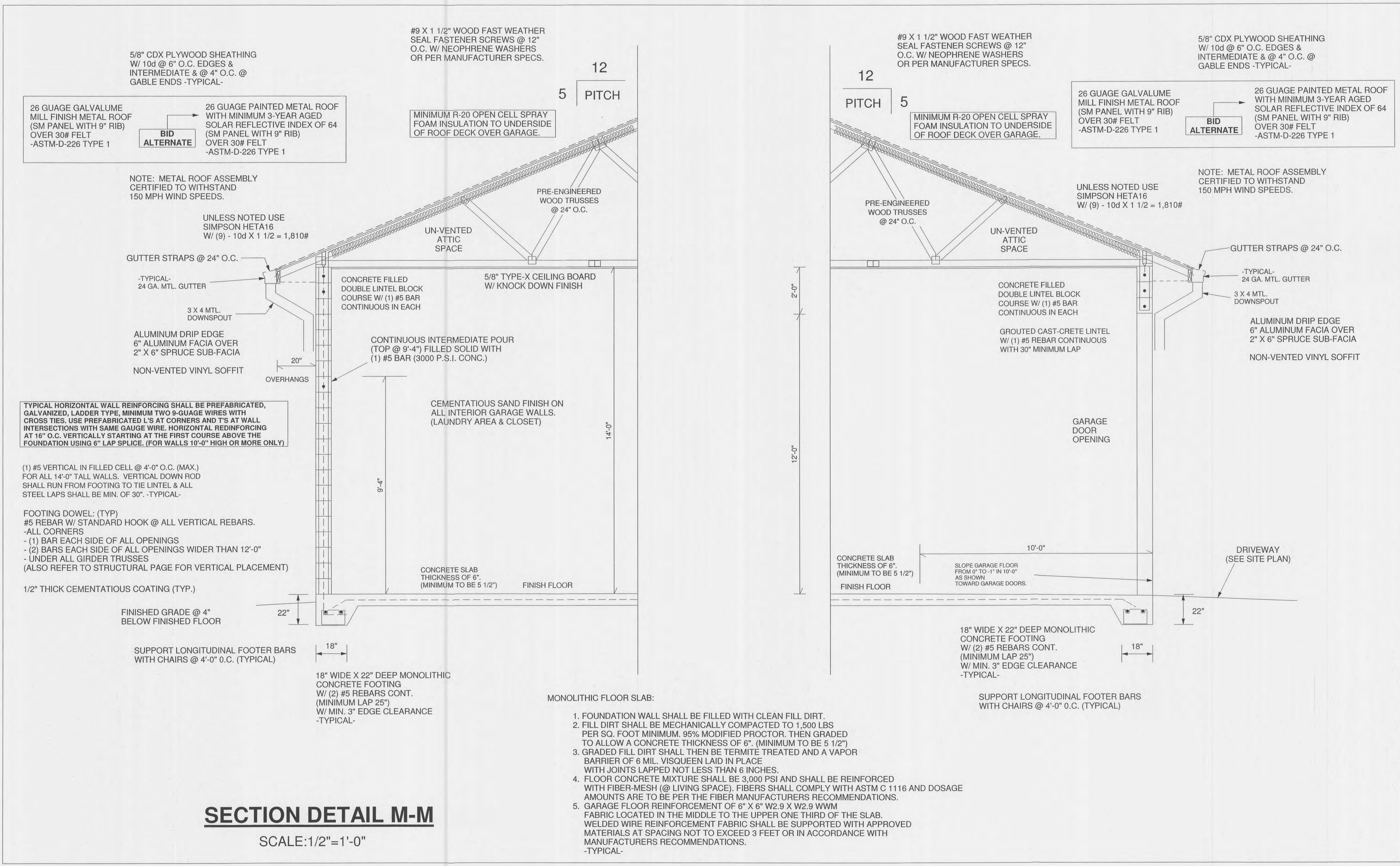
WO# 15071

Highlands County  
 Board of County Commissioners  
 SEBRING PARKWAY  
 EMS STATION BUILDING

DRAWING:  
 SECTION  
 DETAIL M-M

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

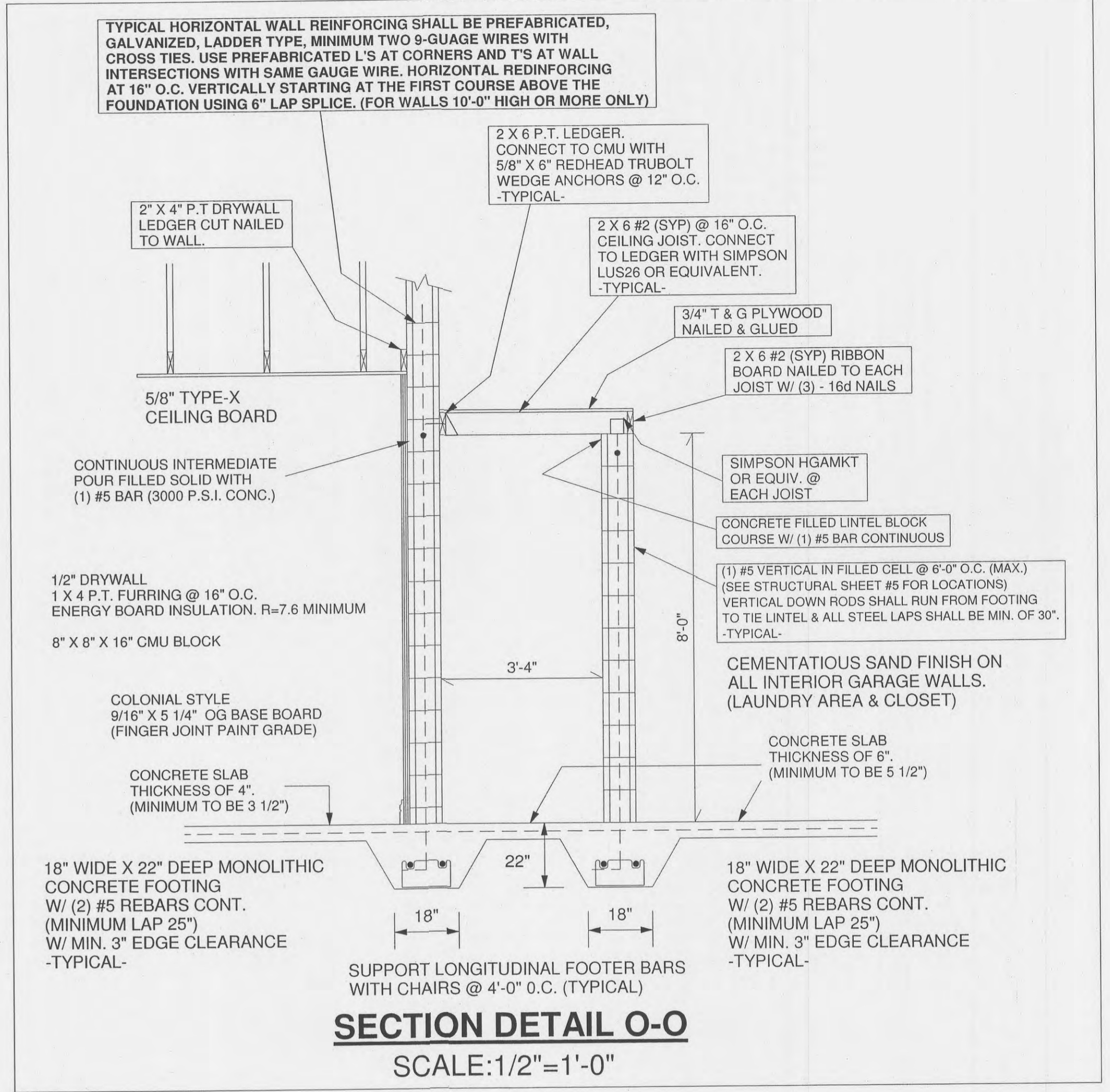
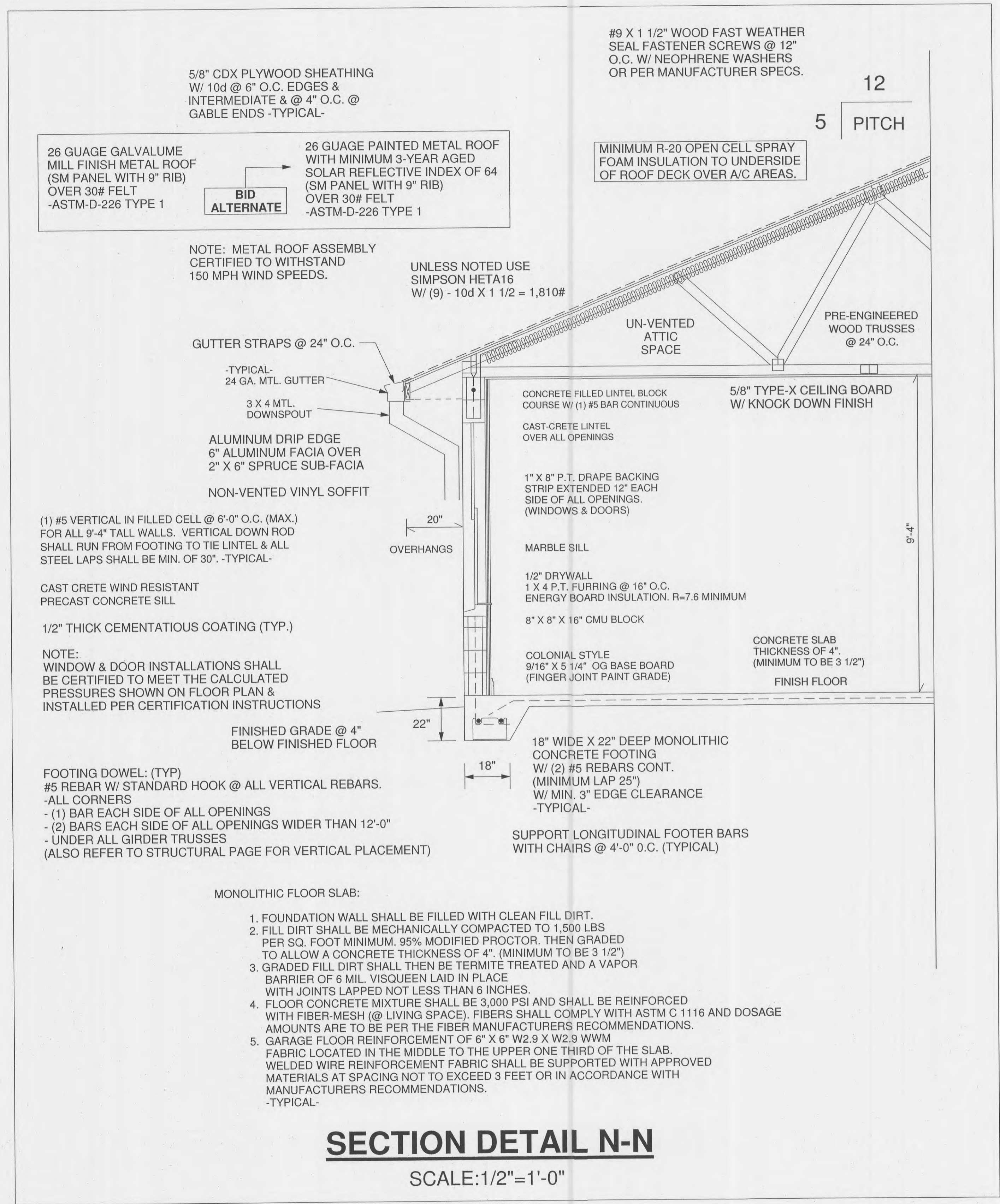
SHEET # 7



**SECTION DETAIL M-M**  
 SCALE: 1/2" = 1'-0"

- MONOLITHIC FLOOR SLAB:
- FOUNDATION WALL SHALL BE FILLED WITH CLEAN FILL DIRT.
  - FILL DIRT SHALL BE MECHANICALLY COMPACTED TO 1,500 LBS PER SQ. FOOT MINIMUM. 95% MODIFIED PROCTOR. THEN GRADED TO ALLOW A CONCRETE THICKNESS OF 6". (MINIMUM TO BE 5 1/2")
  - GRADED FILL DIRT SHALL THEN BE TERMITE TREATED AND A VAPOR BARRIER OF 6 MIL. VISQUEEN LAID IN PLACE WITH JOINTS LAPPED NOT LESS THAN 6 INCHES.
  - FLOOR CONCRETE MIXTURE SHALL BE 3,000 PSI AND SHALL BE REINFORCED WITH FIBER-MESH (@ LIVING SPACE). FIBERS SHALL COMPLY WITH ASTM C 1116 AND DOSAGE AMOUNTS ARE TO BE PER THE FIBER MANUFACTURERS RECOMMENDATIONS.
  - GARAGE FLOOR REINFORCEMENT OF 6" X 6" W2.9 X W2.9 WWM FABRIC LOCATED IN THE MIDDLE TO THE UPPER ONE THIRD OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIALS AT SPACING NOT TO EXCEED 3 FEET OR IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. -TYPICAL-





| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-16-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6684  
ROGER DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFE P.E. # 46930

*Alper*  
8/26/16

PROVIDED TO: POLSTON ENGINEERING CONSULTANTS, INC.  
2825 MENLWORTH BLVD., SEBRING, FLORIDA 39870  
888-395-5504 - 888-395-2465 FAX

**Polston Engineering Inc.**  
CIVIL ENGINEERING CONSULTANTS  
2825 MENLWORTH BLVD., SEBRING, FLORIDA 39870  
888-395-5504 - 888-395-2465 FAX

Highlands County  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

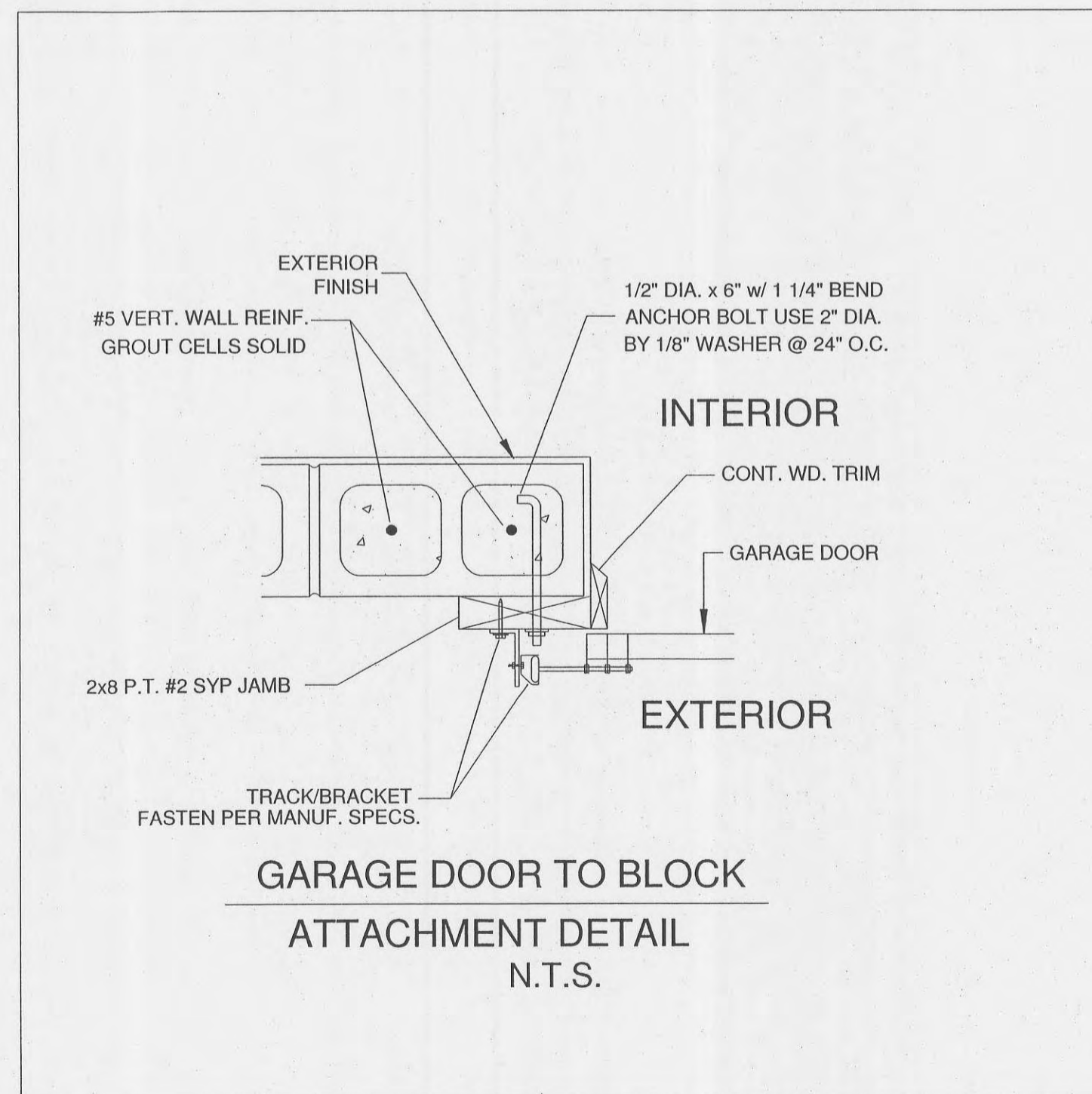
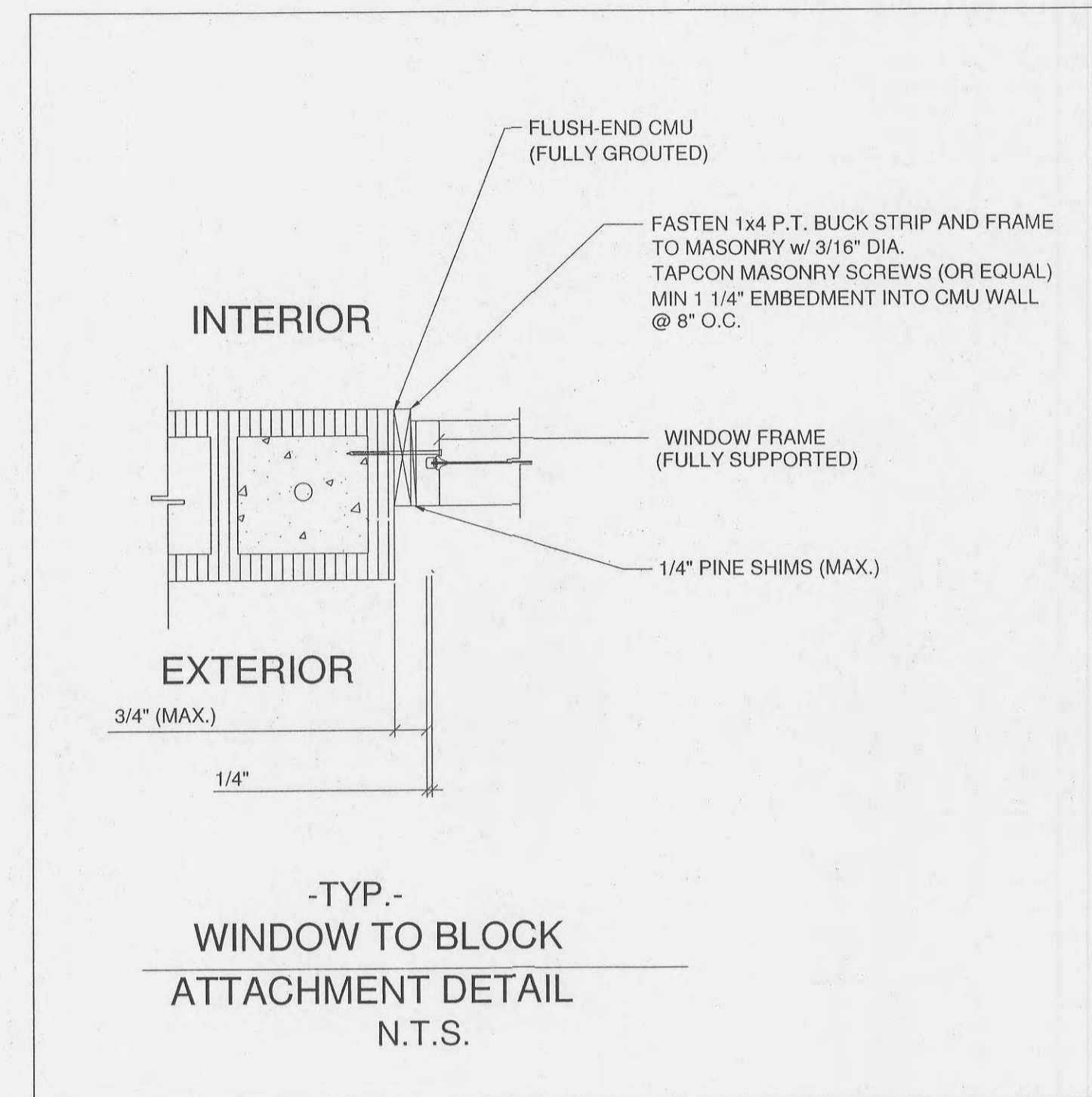
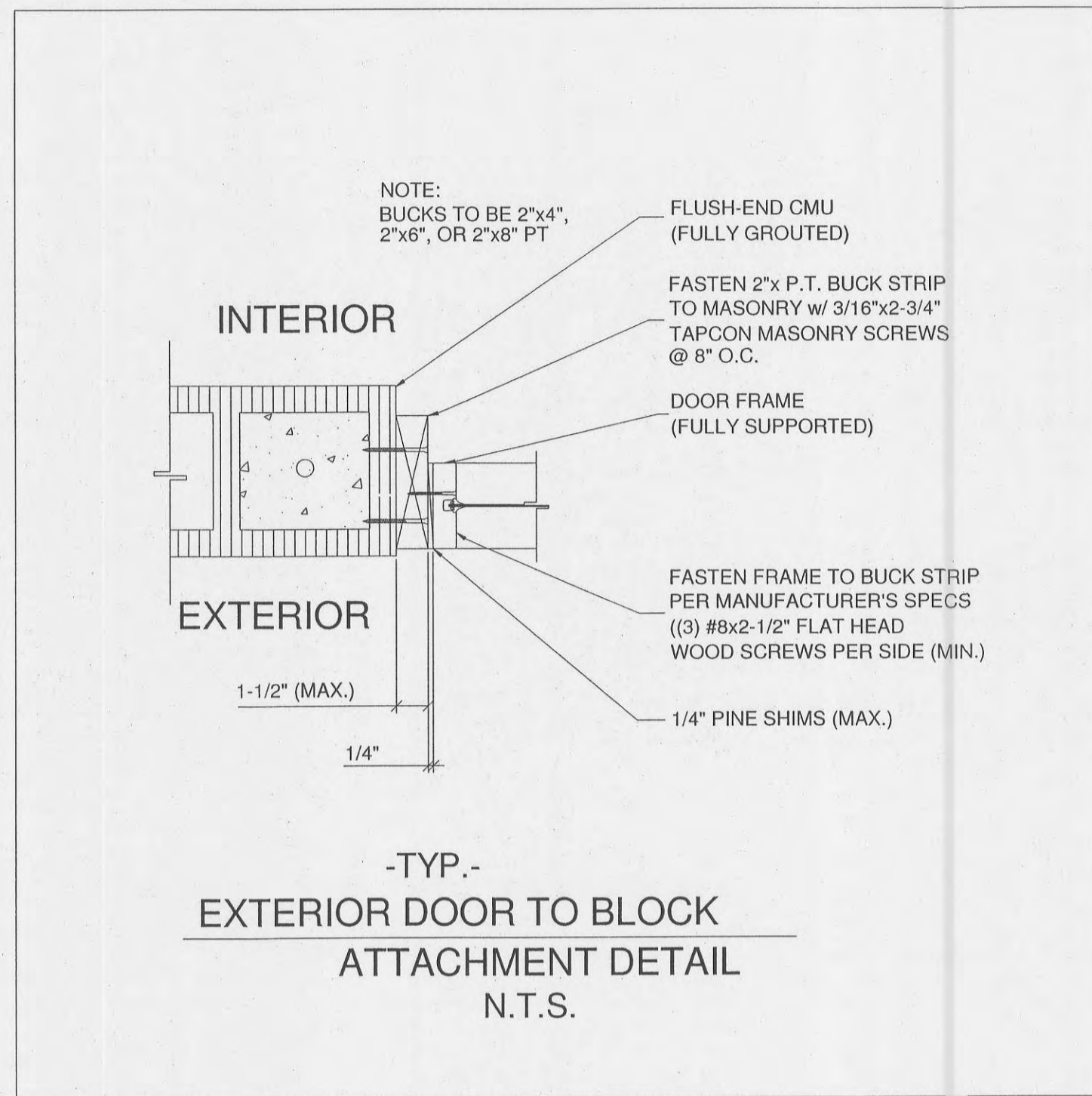
WO# 15071

**DRAWING:**  
SECTION  
DETAILS  
N-N & O-O

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

SHEET # 8





| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #5584  
MARVIN LUTHER WOLFE P.E. # 98030

*M. Wolfe*  
8/26/16

PRINTED COPY IS VOID WITHOUT  
ORIGINAL SIGNATURE AND SEAL



Highlands County  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

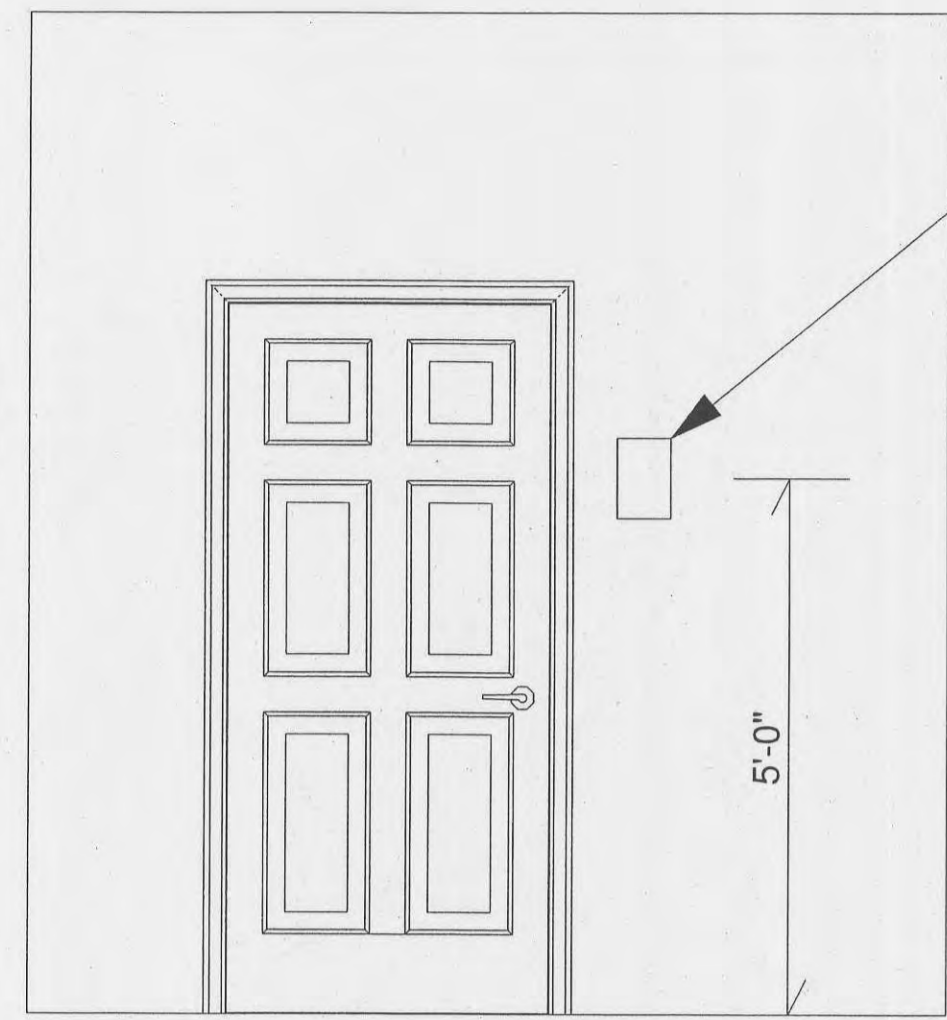
WO# 15071

DRAWING:  
DOOR & WINDOW  
BUCK DETAILS

SCALE:  
AS SHOWN

SHEET # 9

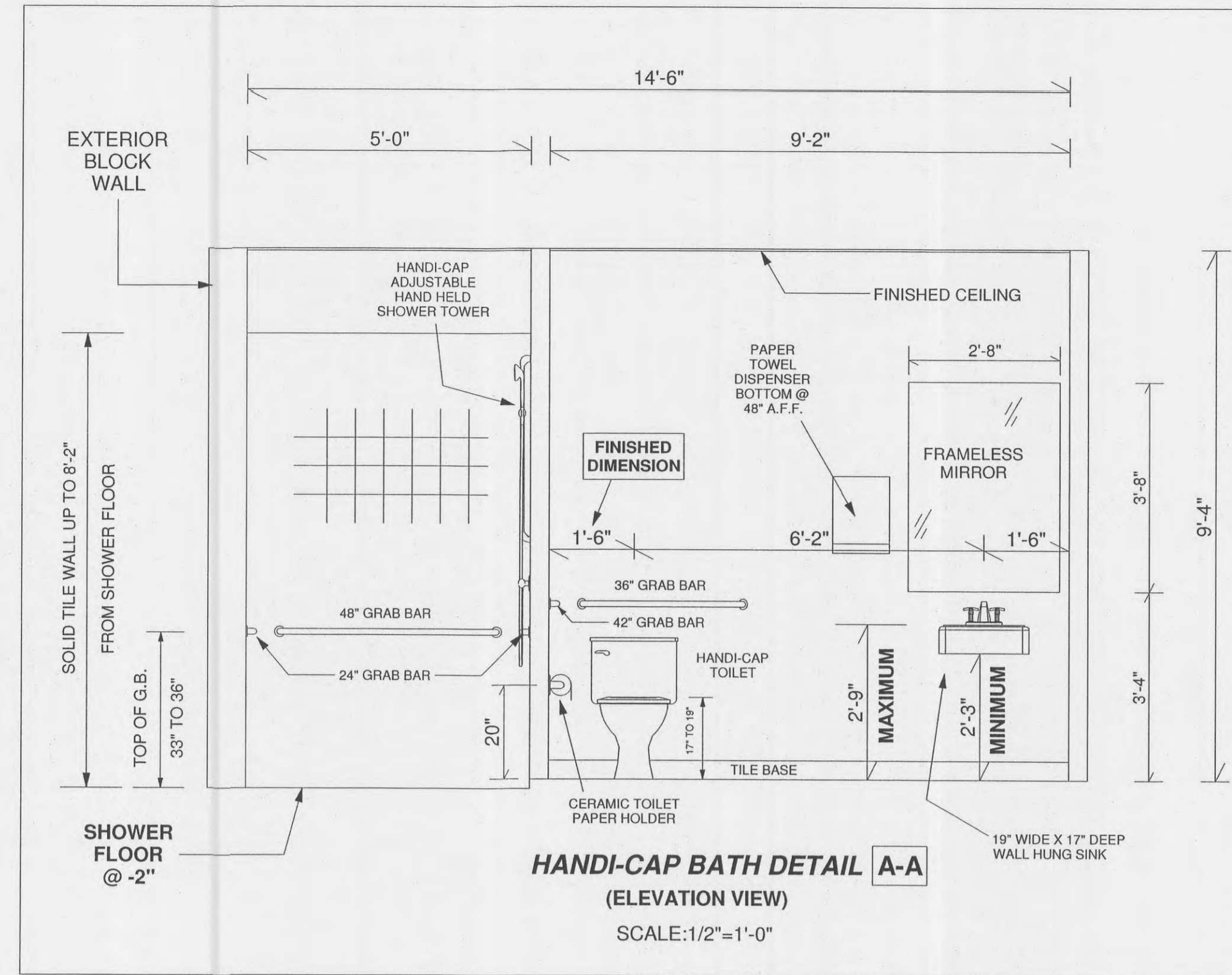




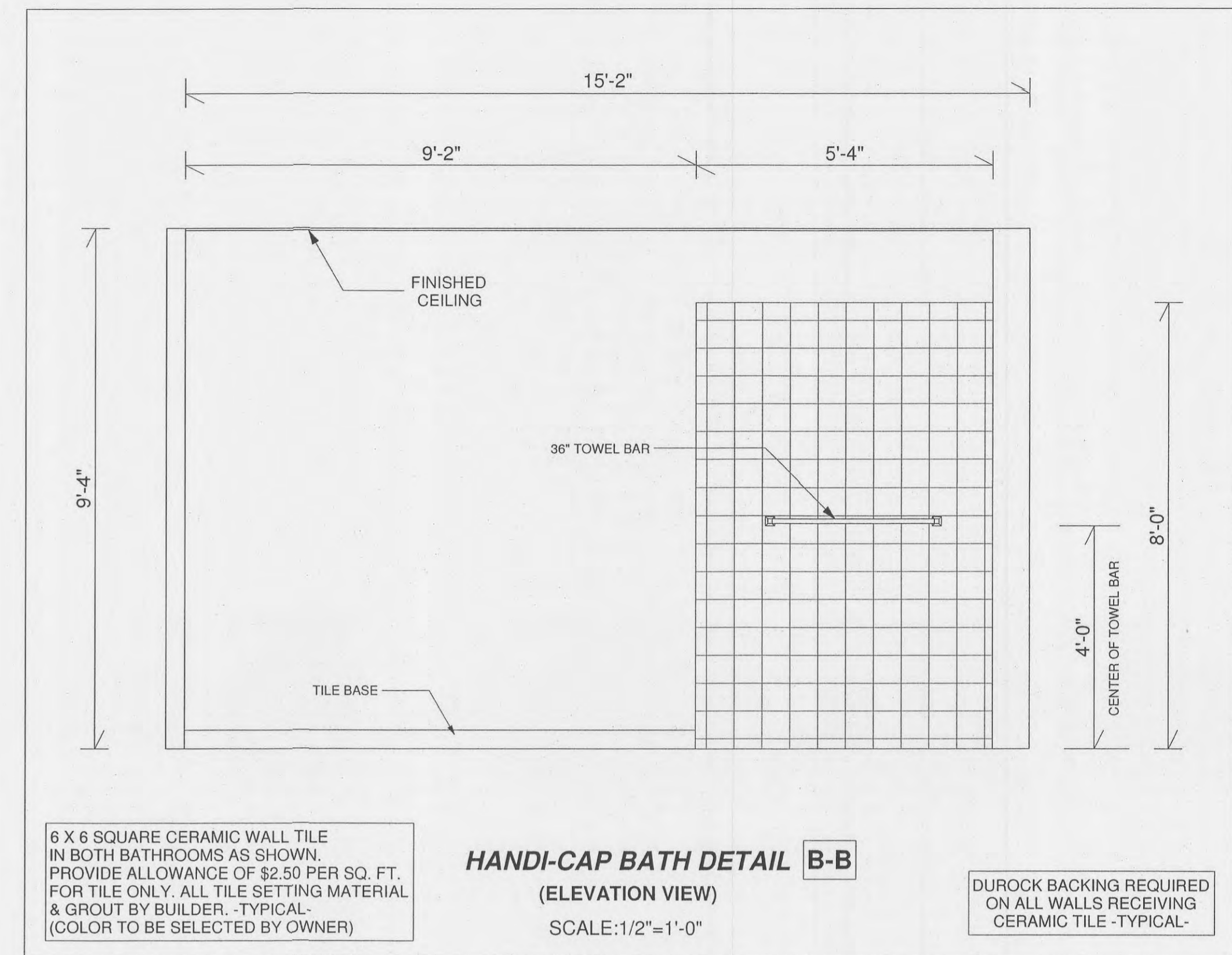
HANDI-CAP BATHROOM DOOR



N.T.S.



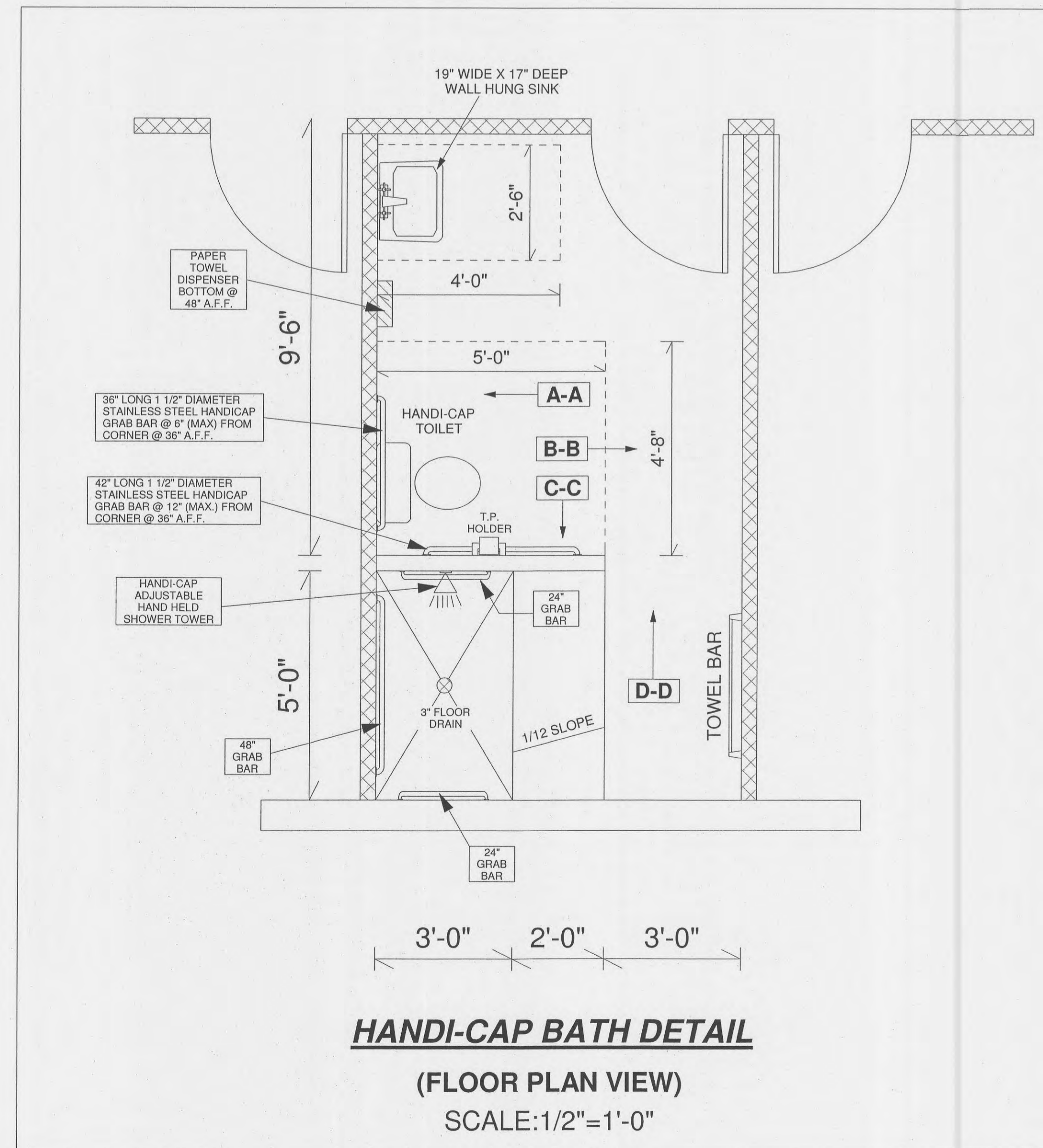
HANDI-CAP BATH DETAIL A-A  
(ELEVATION VIEW)  
SCALE: 1/2" = 1'-0"



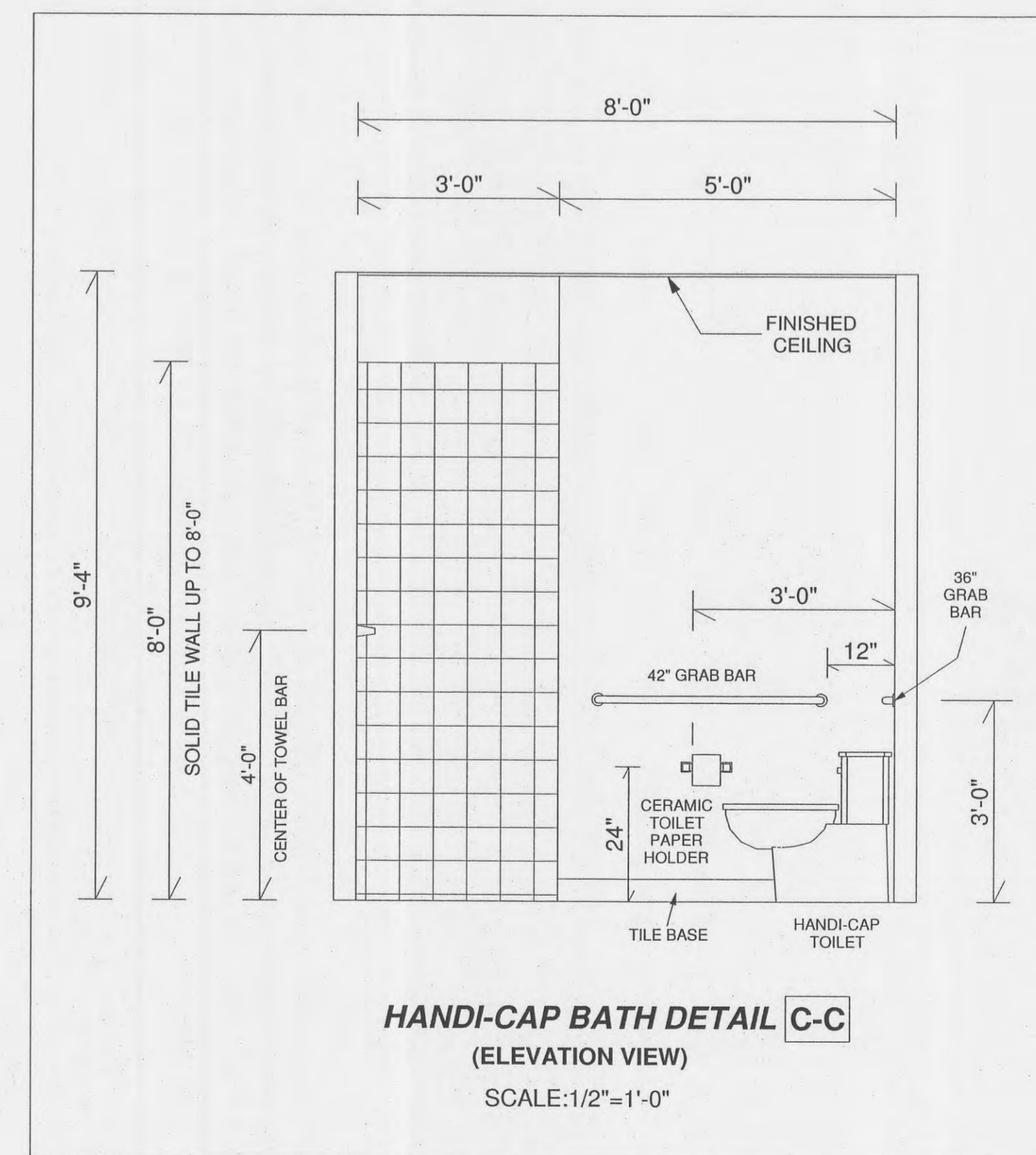
6 X 6 SQUARE CERAMIC WALL TILE IN BOTH BATHROOMS AS SHOWN. PROVIDE ALLOWANCE OF \$2.50 PER SQ. FT. FOR TILE ONLY. ALL TILE SETTING MATERIAL & GROUT BY BUILDER - TYPICAL. (COLOR TO BE SELECTED BY OWNER)

HANDI-CAP BATH DETAIL B-B  
(ELEVATION VIEW)  
SCALE: 1/2" = 1'-0"

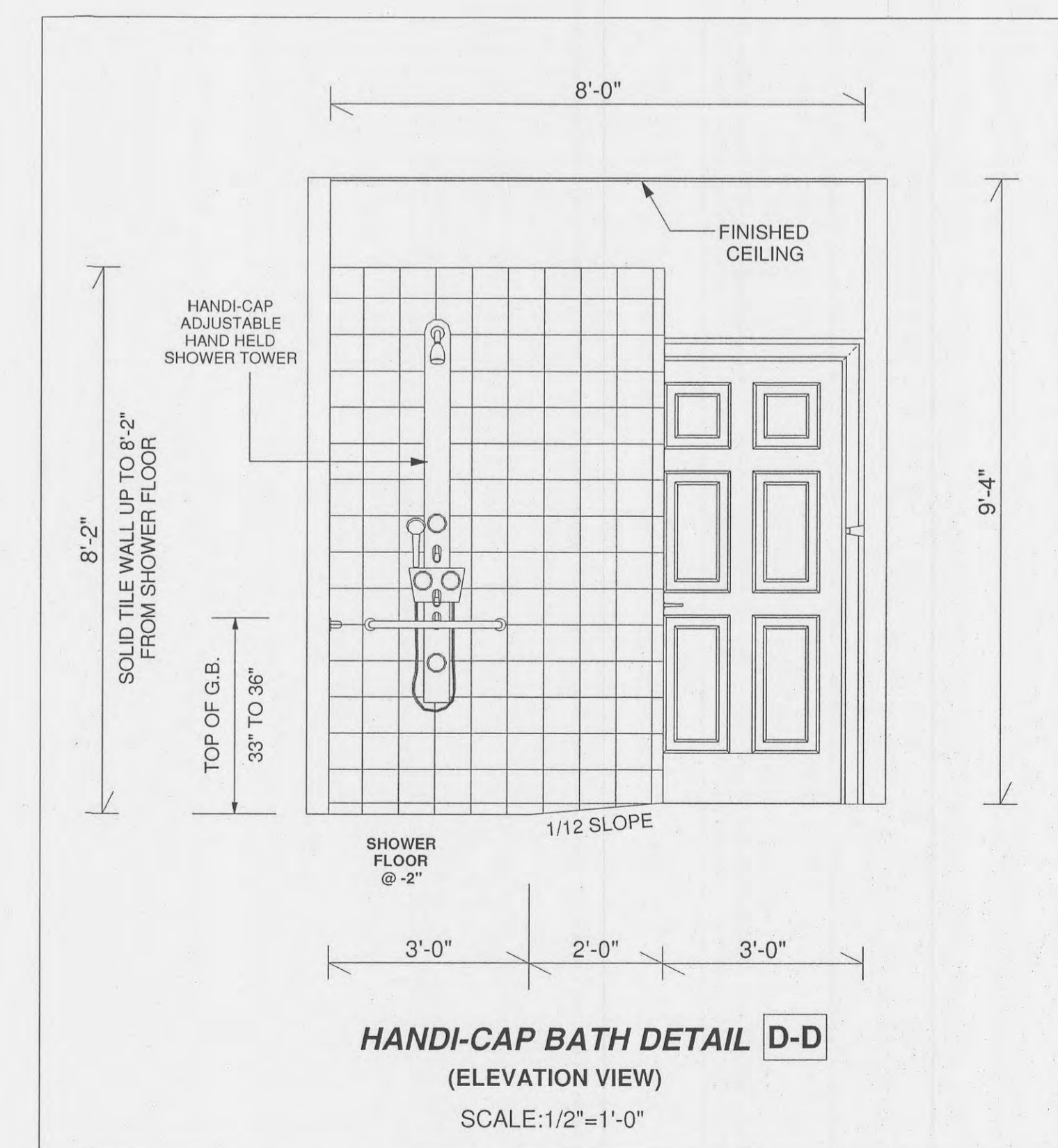
DUROCK BACKING REQUIRED ON ALL WALLS RECEIVING CERAMIC TILE - TYPICAL



HANDI-CAP BATH DETAIL  
(FLOOR PLAN VIEW)  
SCALE: 1/2" = 1'-0"



HANDI-CAP BATH DETAIL C-C  
(ELEVATION VIEW)  
SCALE: 1/2" = 1'-0"



HANDI-CAP BATH DETAIL D-D  
(ELEVATION VIEW)  
SCALE: 1/2" = 1'-0"

| DATE:      | DR | CH |
|------------|----|----|
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| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6584  
ROGER DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFE P.E. # 46050

*Signature*  
02/26/16

PROFESSIONAL SEAL AND EXPIRES 12/31/2017



WO# 15071

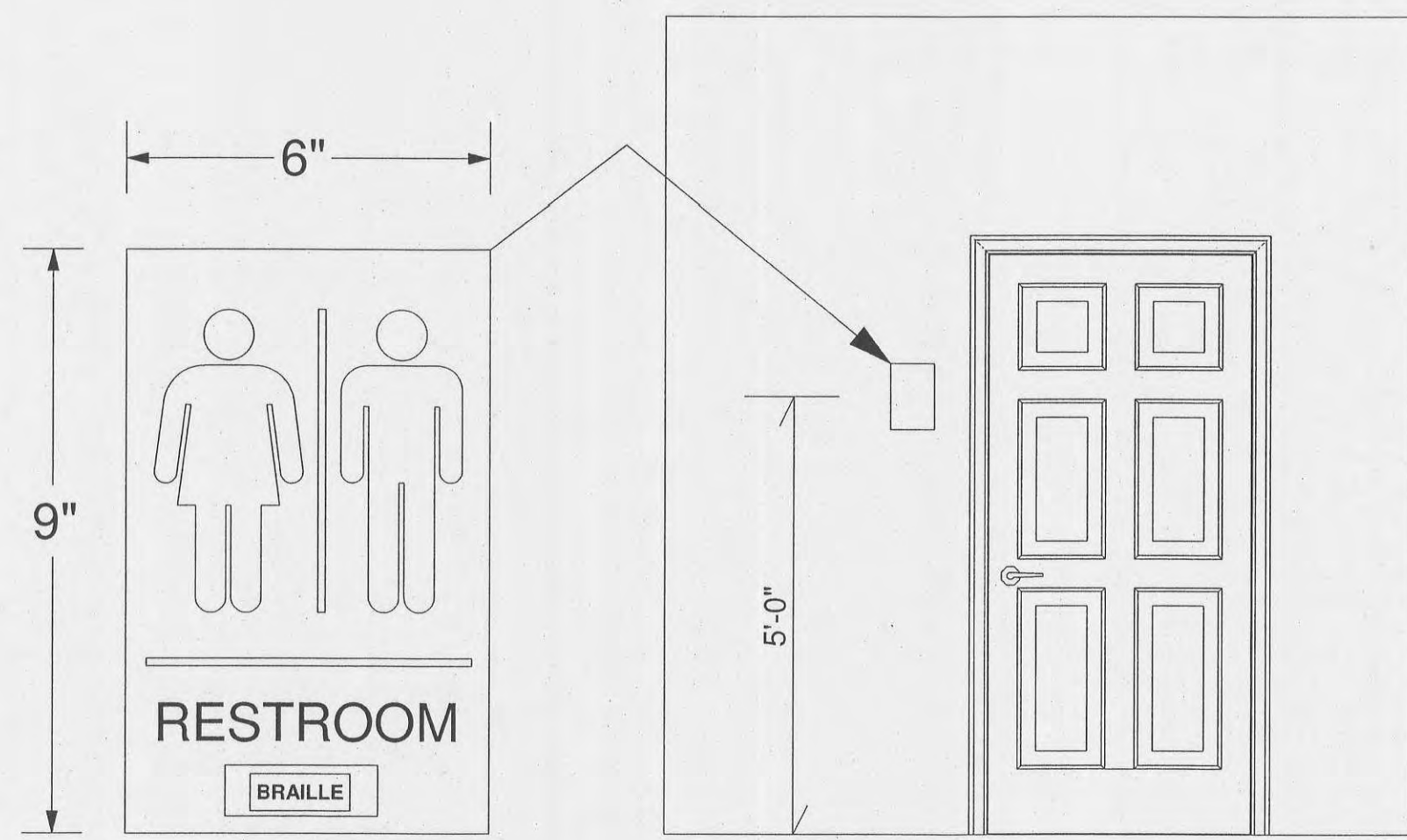
Highlands County  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

DRAWING:  
HANDI-CAP  
BATHROOM  
DETAILS

SCALE:  
AS SHOWN

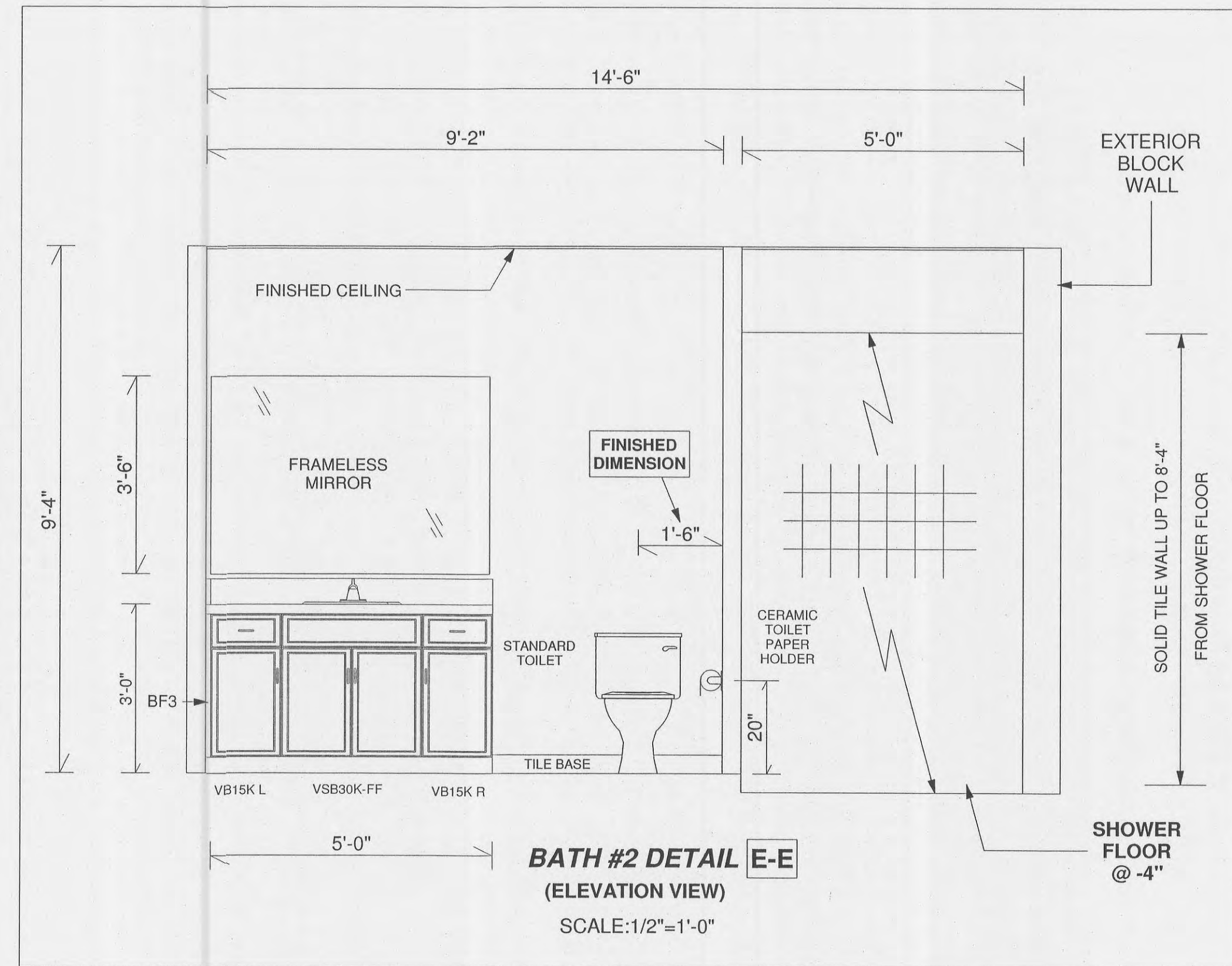
SHEET # 10



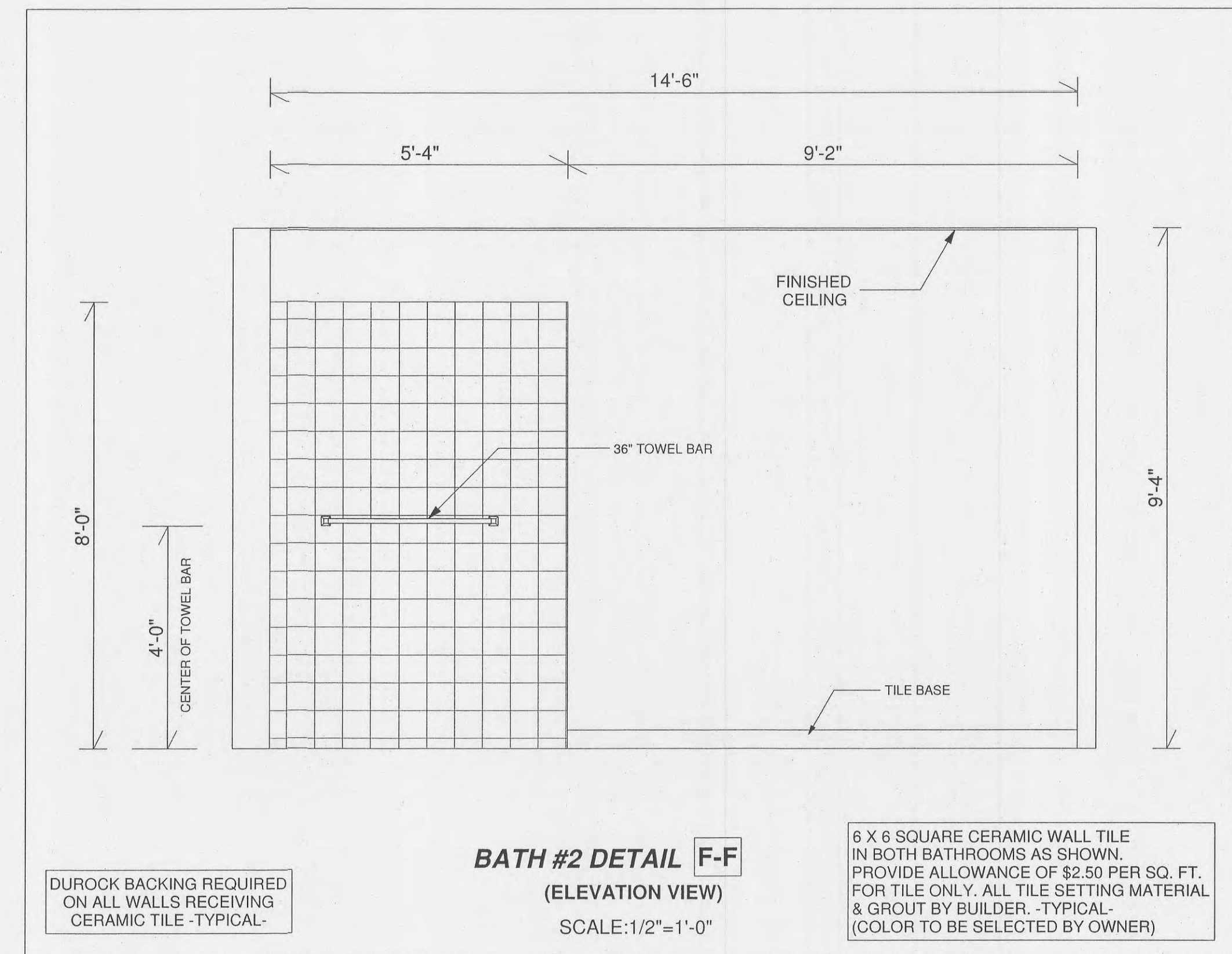


N.T.S.

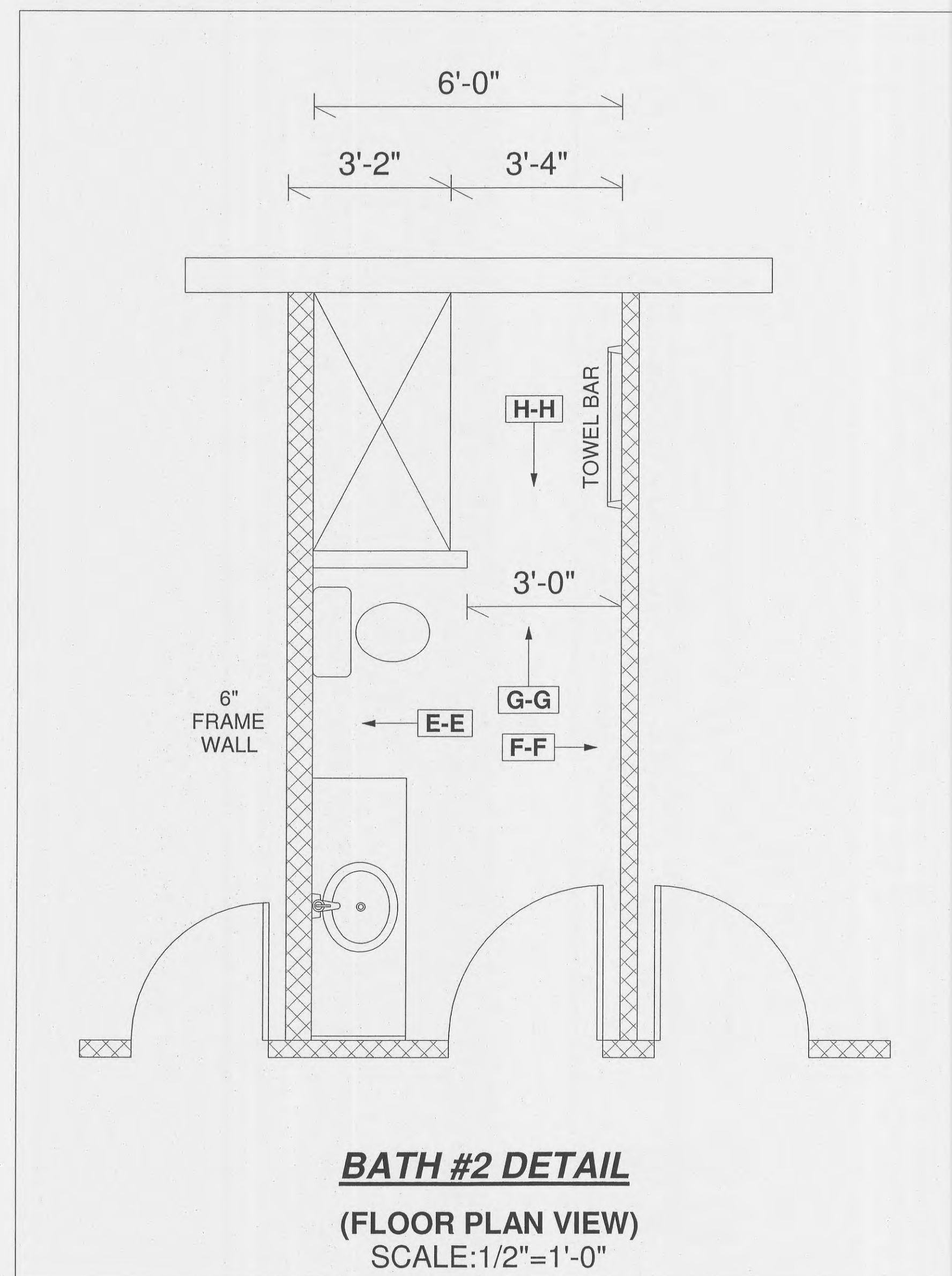
BATH #2 DOOR



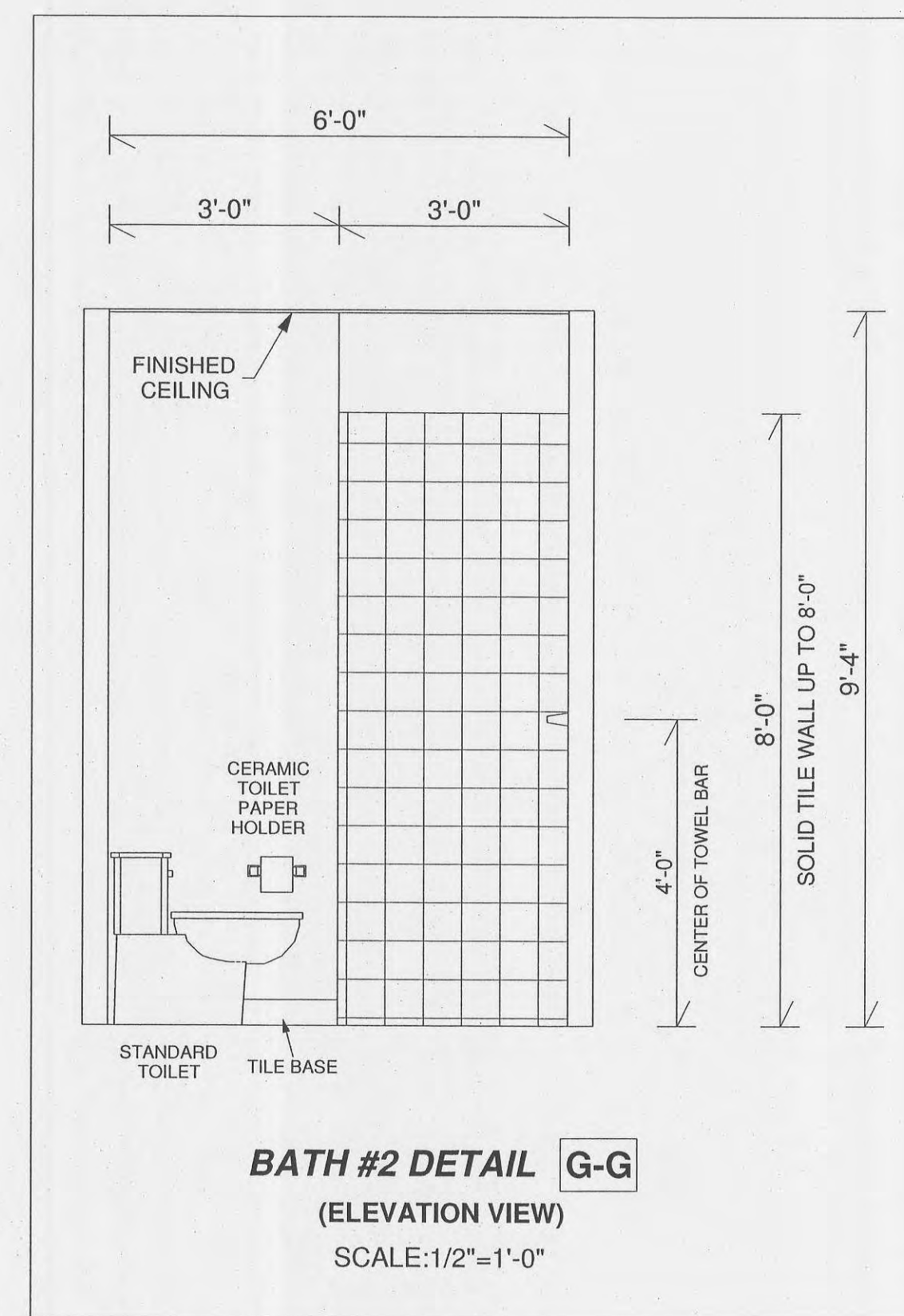
**BATH #2 DETAIL E-E**  
(ELEVATION VIEW)  
SCALE:1/2"=1'-0"



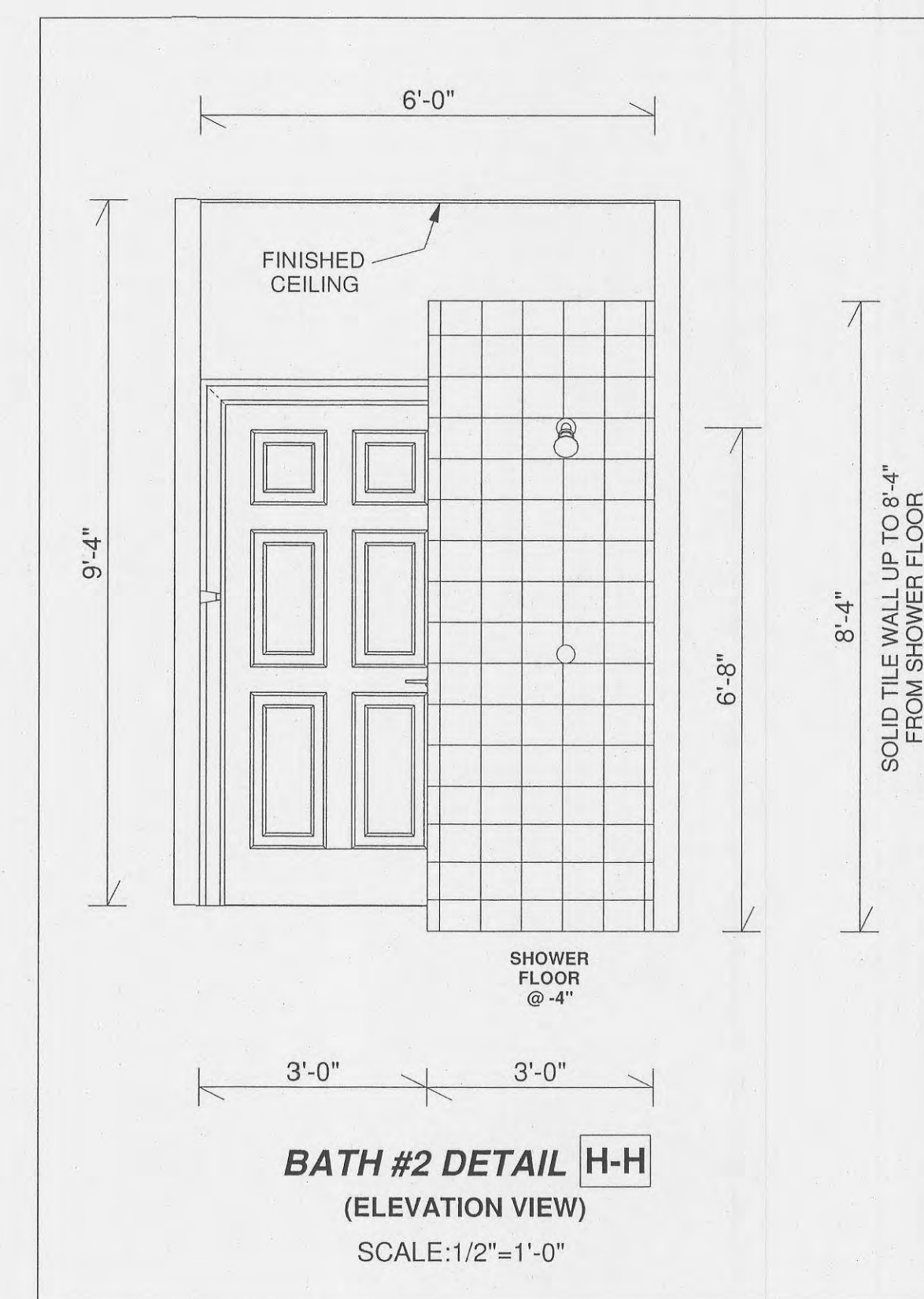
**BATH #2 DETAIL F-F**  
(ELEVATION VIEW)  
SCALE:1/2"=1'-0"



**BATH #2 DETAIL**  
(FLOOR PLAN VIEW)  
SCALE:1/2"=1'-0"



**BATH #2 DETAIL G-G**  
(ELEVATION VIEW)  
SCALE:1/2"=1'-0"



**BATH #2 DETAIL H-H**  
(ELEVATION VIEW)  
SCALE:1/2"=1'-0"

| DATE:      | DR | CH |
|------------|----|----|
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| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6584  
ROGER DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFE P.E. # 48330  
*M. Wolfe*  
8/16/16

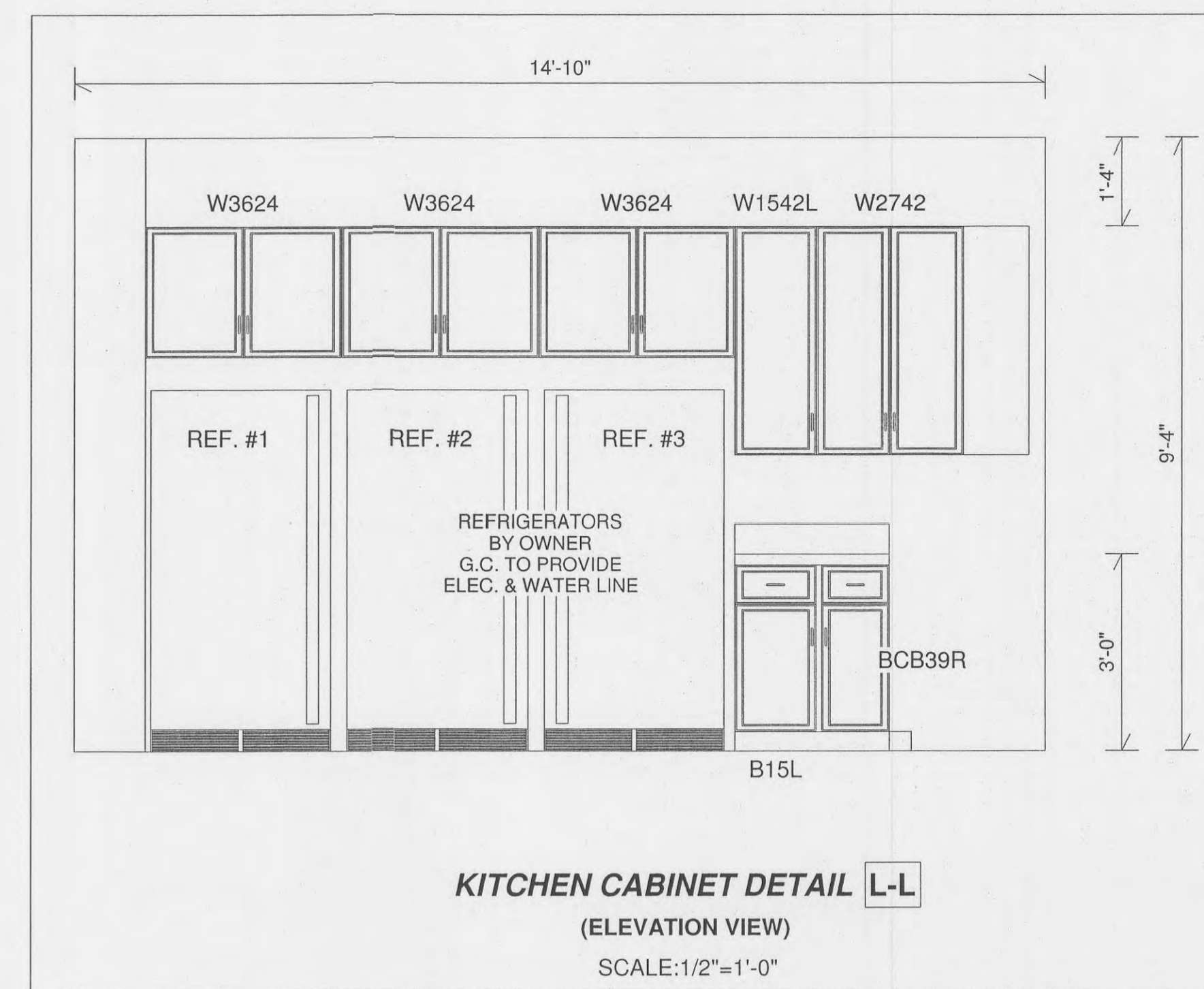
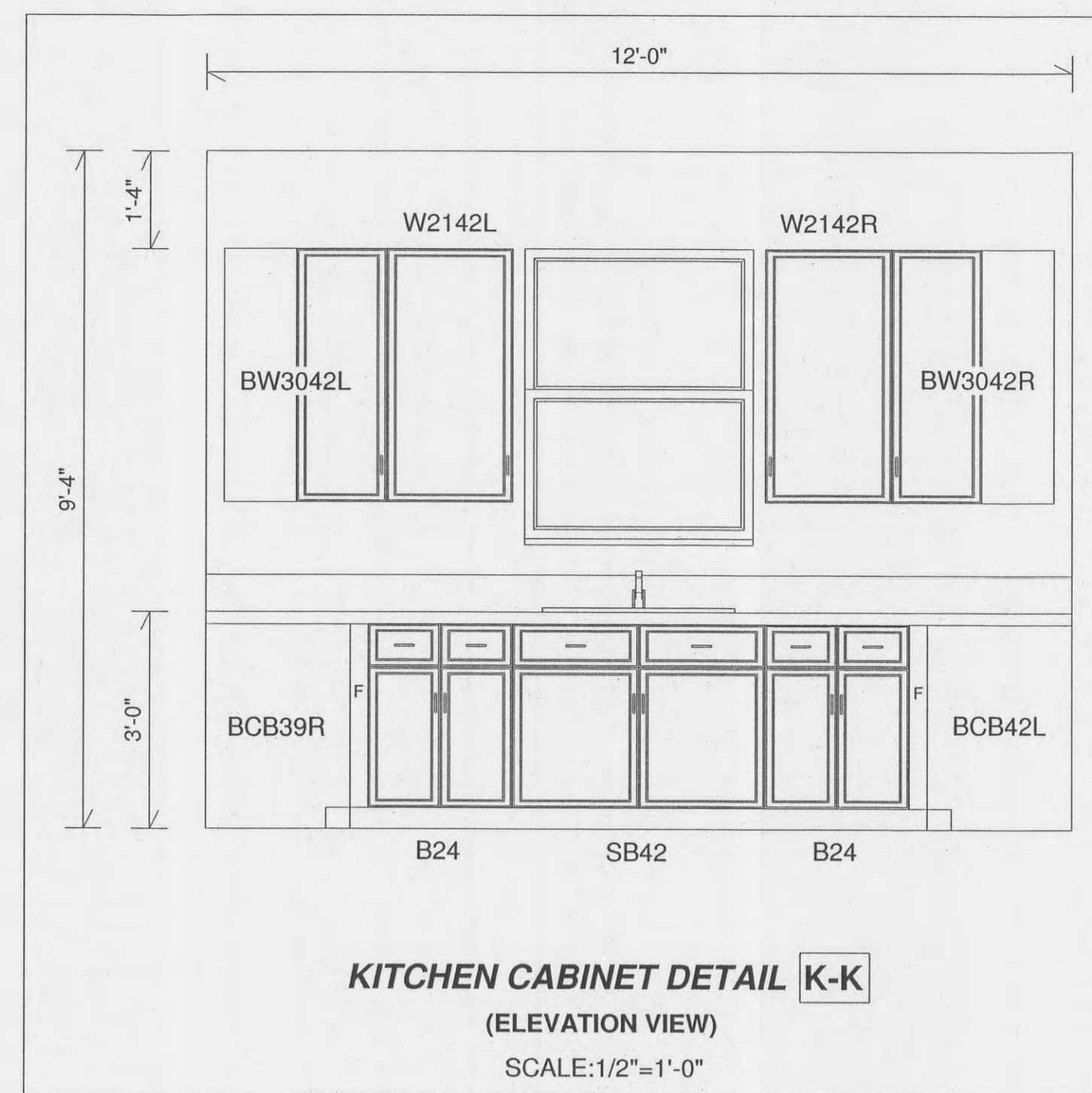
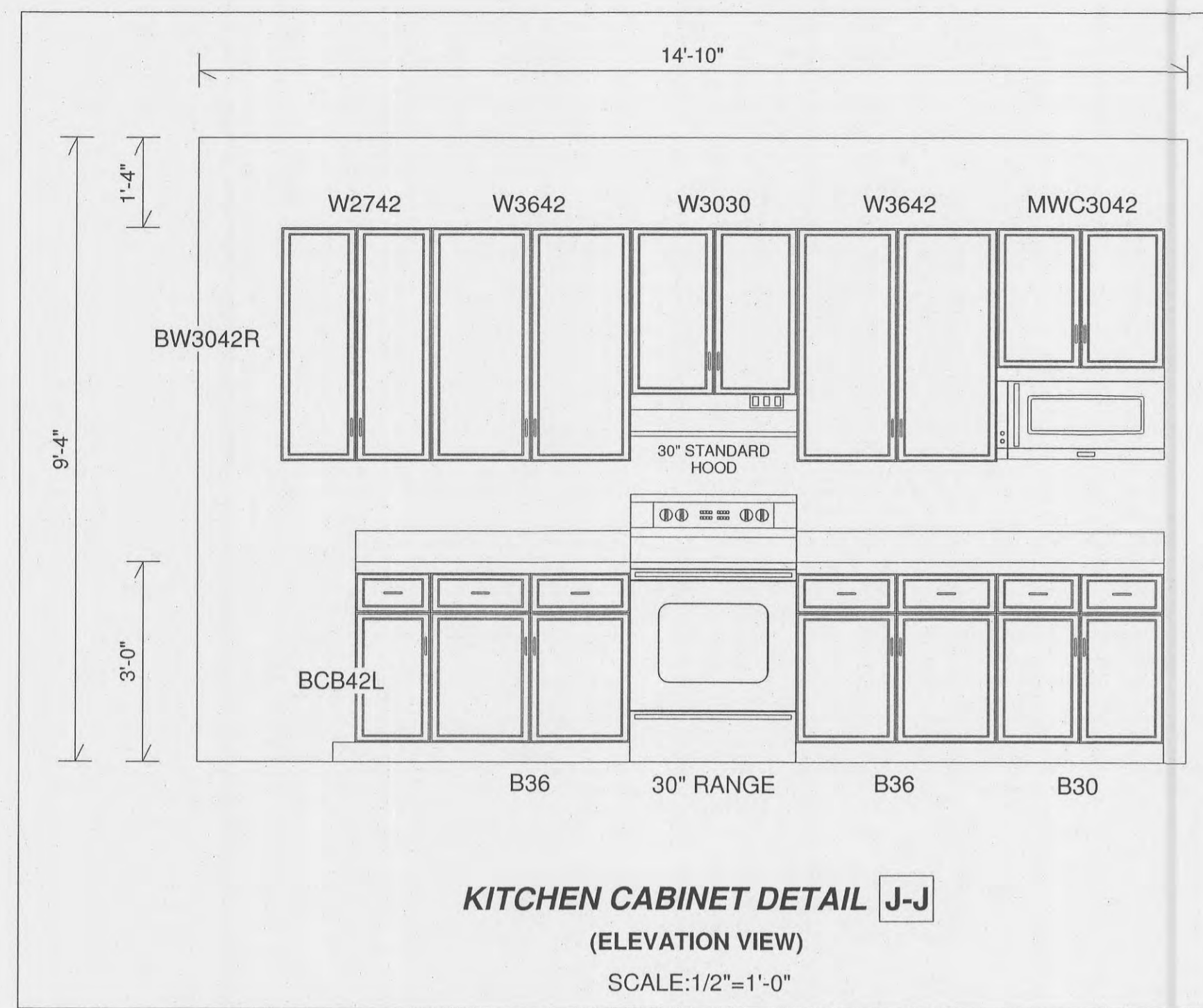
**Polston Engineering Inc.**  
CIVIL ENGINEERING CONSULTANTS  
2925 NEWLWORTH BLVD., SEBRING, FLORIDA 33970  
888-385-5584 • 888-385-5482 FAX

**Highlands County**  
Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

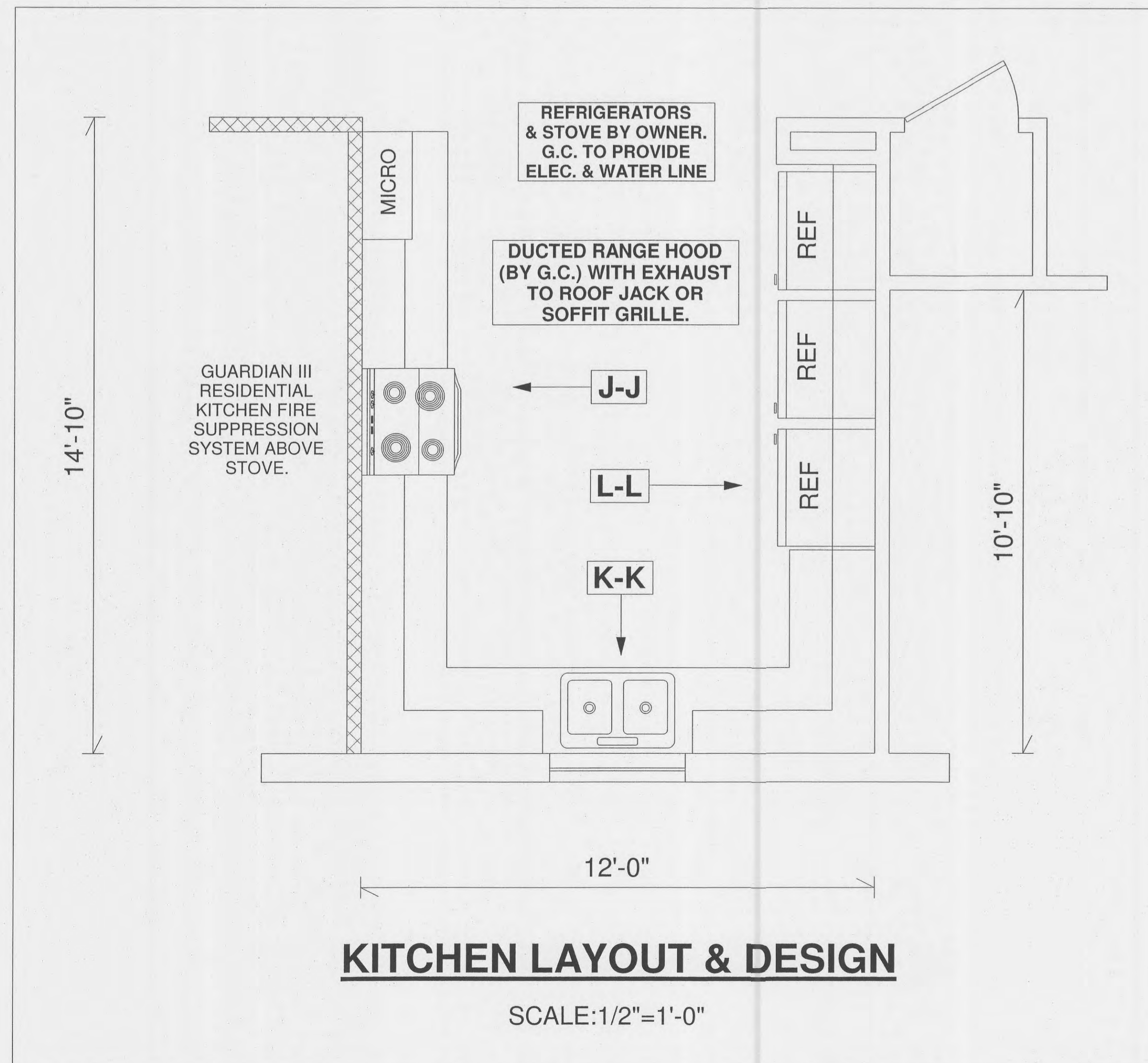
DRAWING:  
BATHROOM #2  
DETAILS  
SCALE:  
AS SHOWN  
SHEET # **11**

WO# 15071





ALL DIMENSIONS & SIZE DESIGNATIONS GIVEN ARE SUBJECT TO VERIFICATION ON JOB SITE AND ADJUSTMENT TO FIT CONDITIONS.



**CABINET SPECIFICATIONS**  
CABINET CONSTRUCTION TO BE LAMINATE ON PLYWOOD CONSTRUCTION. LAMINATE ON CABINETS SHALL BE VERTICAL GRADE. BASE CABINET HEIGHT = 34 1/2" AND DEPTH = 24". VANITY BASE HEIGHT = 34 1/2" AND DEPTH = 21". WALL CABINET HEIGHT = 42" AND DEPTH = 12". DRAWERS TO BE MINIMUM 1/2" PLYWOOD SIDES WITH MINIMUM 1/4" PLYWOOD CAPTIVE BOTTOM. DRAWER SLIDES TO BE FULL EXTENSION HEAVY DUTY BALL BEARING SLIDES. ADJUSTABLE HALF SHELVES IN BASE CABINETS AND FULL DEPTH SHELVES IN WALL CABINETS. DOORS AND DRAWER FRONTS SHALL BE RAISED PANEL THERMOFOIL TO MATCH LAMINATE. HINGES TO BE CONCEALED TYPE HINGES WITH MINIMUM 100 DEGREE OPENING ANGLE. PROVIDE A \$4.00 ALLOWANCE PER HANDLE OR KNOB FOR DOORS & DRAWERS.

**COUNTERTOP SPECIFICATIONS**  
KITCHEN COUNTERTOPS TO BE STANDARD COLOR LAMINATE ON PLYWOOD CONSTRUCTION. BACKSPLASH TO BE 4" TALL LAMINATE ON PLYWOOD CONSTRUCTION. LAMINATE ON COUNTERTOPS AND BACK SPLASHES SHALL BE HORIZONTAL GRADE. BATH COUNTERTOPS TO BE CULTURED MARBLE WITH INTEGRAL SINK AND BACKSPLASH.

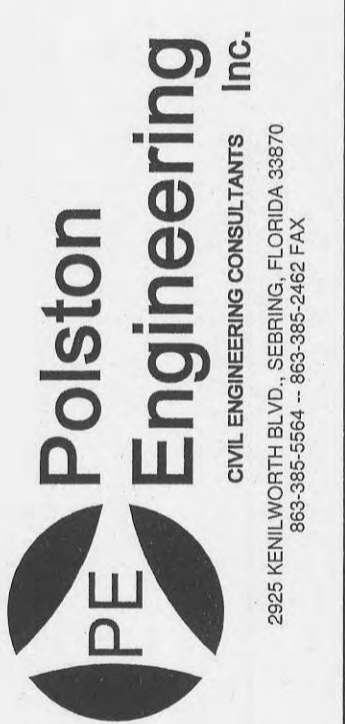
**CONSTRUCTION NOTES**  
PROVIDE WALL CABINET WITH OPENING AND SHELF FOR A COUNTERTOP MICROWAVE OVEN. CABINET OVER RANGE HOOD VENT WILL HOUSE FIRE SUPPRESSION EQUIPMENT. USE BLIND CORNER CABINETS IN BASE AND WALL APPLICATIONS - (NO LAZY SUSANS). PROVIDE A MINIMUM 74" WIDE BY 72" TALL OPENING FOR 2 STANDARD 36" REFRIGERATORS. PROVIDE A CUTOUT IN LAMINATE TOP FOR STANDARD STAINLESS DROP IN SINK.

| DATE:      | DR | CH |
|------------|----|----|
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| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #5864  
ROGER DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFE P.E. # 46030

*MP*  
*GL*

CIVIL ENGINEERING CONSULTANTS  
INC.  
2525 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
888-365-5564 • 888-365-2462 FAX



WO# 15071

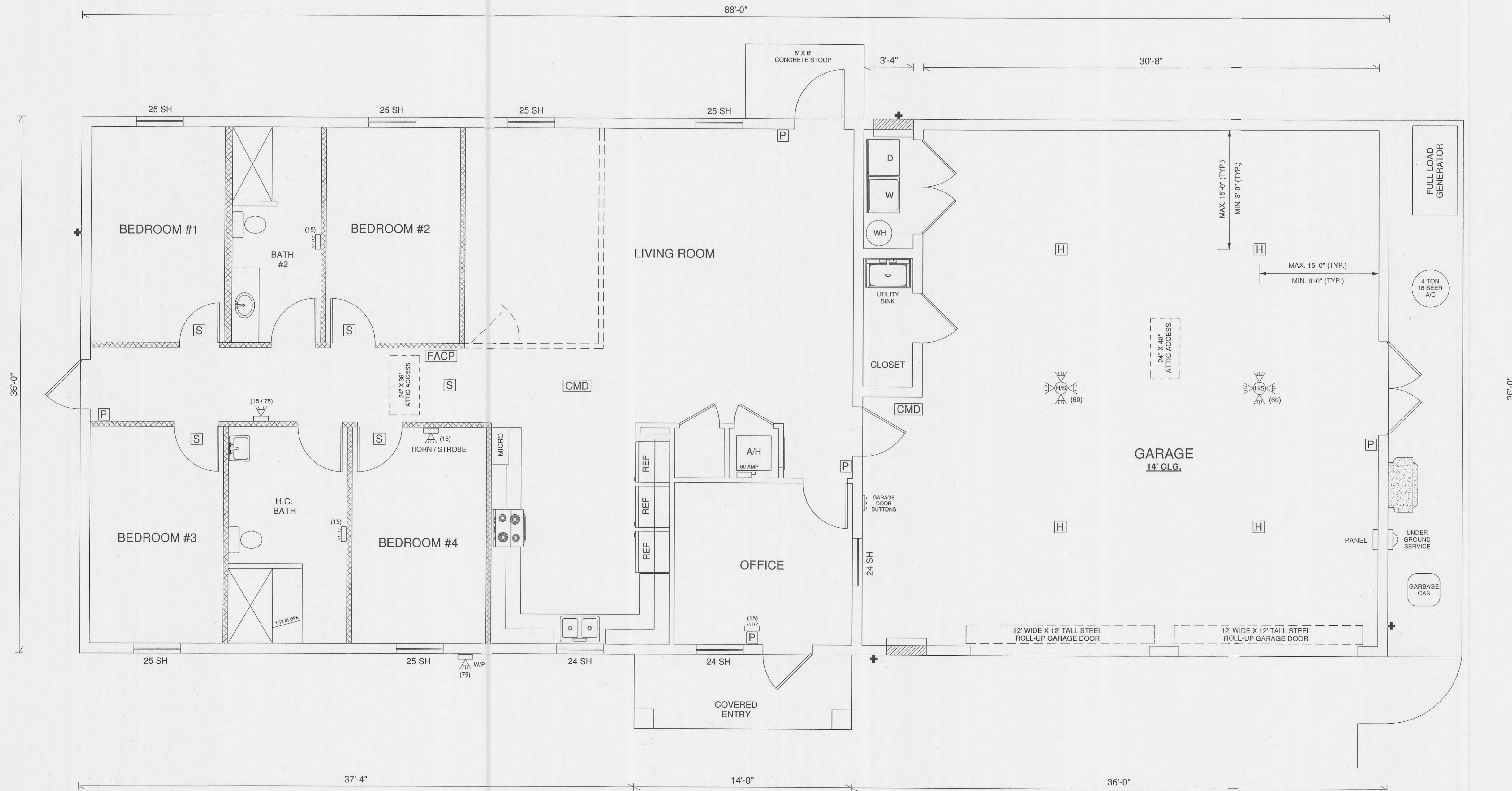
Highlands County  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

DRAWING:  
KITCHEN CABINET  
DETAIL & SPECS

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

SHEET # 12





**LEGEND**

|          |   |
|----------|---|
| FACP     | FIRE ALARM CONTROL PANEL (5 ZONE)             |
| P        | MANUAL PULL STATION                           |
| S        | PHOTO-ELECTRIC SMOKE DETECTOR                 |
| H        | RATE-OF-RISE SPOT HEAT DETECTOR (194 DEGREES) |
| CMD      | CARBON MONOXIDE DETECTOR                      |
| (Symbol) | WALL MOUNT FIRE HORN / STROBE (cd)            |
| (Symbol) | WALL MOUNT FIRE STROBE (cd)                   |
| (Symbol) | OUTDOOR WALL MOUNT FIRE HORN / STROBE (cd)    |
| (Symbol) | CEILING MOUNT FIRE HORN / STROBE (cd)         |

FIRE ALARM SYSTEM TO BE INSTALLED PER - NFPA 70 & 72  
 & FOLLOW DESIGN OF NFPA 101 & (CURRENT APPLICABLE EDITIONS)

**FIRE ALARM DESIGN BY:**

SAFEGUARD SECURITY, INC.  
 528 W. MAIN ST.  
 P.O. BOX 2048  
 WAUCHULA, FLA. 33873

Sprinkler valve tamper switch and water flow switch to be connected to fire alarm.

- Generator monitoring of :
- (1) Generator running
  - (2) Generator fault
  - (3) Generator switch in nonautomatic position (Per NFPA 110) to be connected to fire alarm.

Input/output matrix, riser diagram, wire voltage drop and battery calcs to be included with permit application from fire alarm contractor of record.  
 Spec sheets of all equipment to be submitted at time of permit application.

| DATE:      | DR | CH |
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| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CENTRICAL OF NOTIFICATION #254  
 ROGER DALE POLSTON P.E. # 33222  
 MARVIN LUTHER WOLFE P.E. # 46030



**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

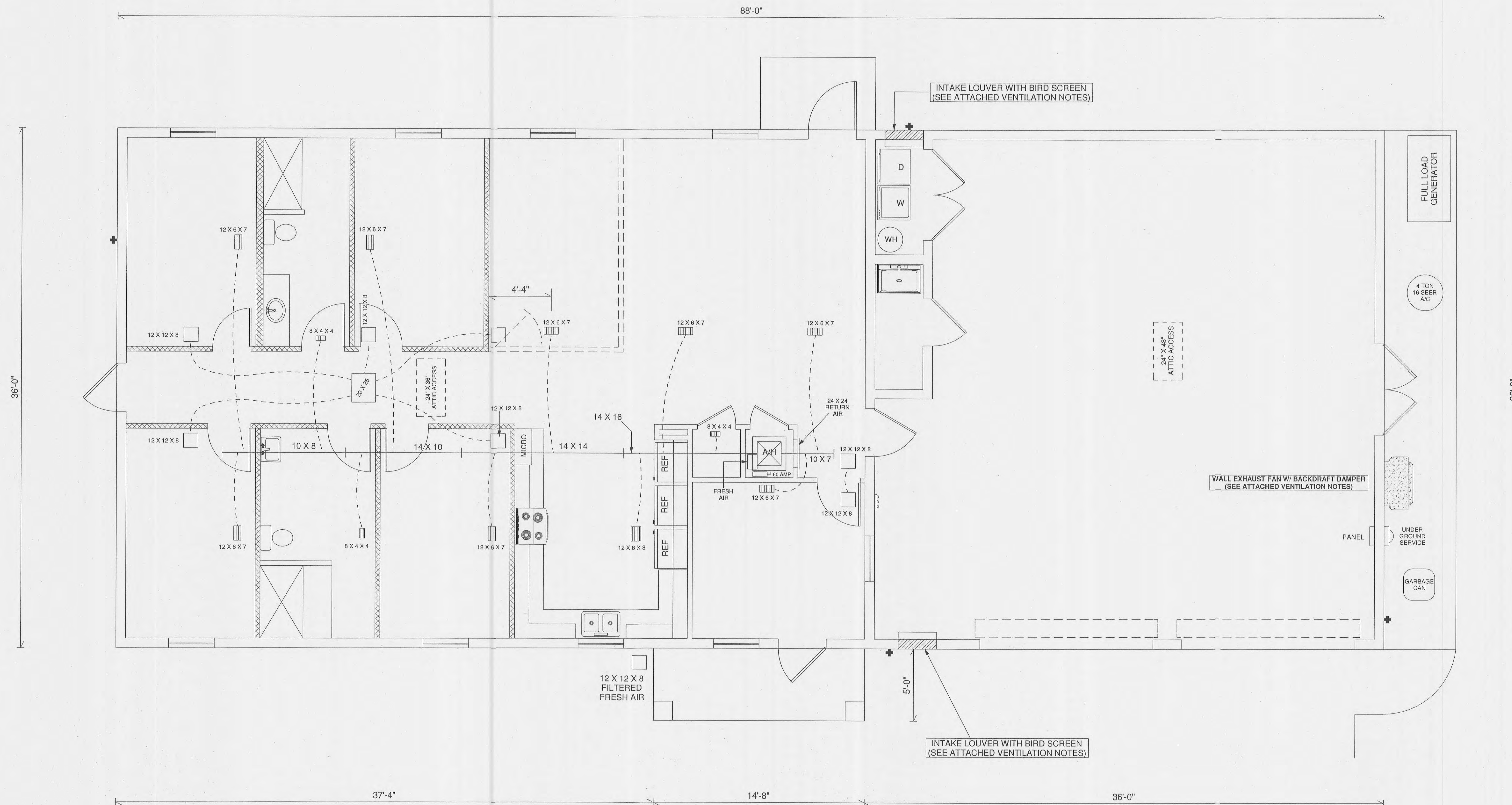
**DRAWING:**  
**FIRE ALARM**

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

SHEET # **13**

WO# 15071





**AIR CONDITIONING SPECIFICATIONS**

1. AIR CONDITIONER TO BE 4 TON 16 SEER WITH 10 KW ELECTRIC HEAT.
2. ALL SUPPLY GRILLES AND FRESH AIRS TO HAVE ROUND DAMPERS AT DUCT TAKE OFFS FOR AIR BALANCING.
3. ALL SUPPLY GRILLES ARE TO BE CURVED BLADES AND FULLY ADJUSTABLE.
4. MAIN RETURN AIR TO HAVE WIDE LOUVERS AND NOT STAMPED LOUVERS. HOP OVER RETURNS NEED TO HAVE WIDE LOUVERS ALSO.
5. ALL TRUNKLINES TO BE 1 1/2" FIBROUS DUCTBOARD R-6 INSULATION.
6. DRAINLINE TO BE SLABBED IN GROUND AND REFRIGERANT LINES TO BE RAN OVERHEAD.
7. DRYER VENTING AND RANGE VENTING TO BE PROVIDED AND INSTALLED TO CODE.
8. ONE CASE OF 24" X 24" FILTERS TO BE PROVIDED TO OWNER WITH OWNER MANUAL.

**GENERAL NOTES: FOR GARAGE VENTILATION**

PROVIDE VENTILATION PER FMC 2014 SECTION 404. EXHAUST FAN AND LOUVER SIZE AND LOCATION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SIZES AND LOCATIONS OF ALL ROUGH OPENINGS.

ALL INTAKE LOUVERS SHALL BE LARGE AND SMALL MISSILE IMPACT RATED. (INCLUDING WALL EXHAUST FAN AND BACKDRAFT DAMPER)

IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE CODE, THE CODE SHALL TAKE PRECEDENCE. THE MECHANICAL CONTRACTOR SHALL STUDY THE CONTRACT DOCUMENTS AND SUBMIT A BID BASED ON WORK WHICH COMPLIES WITH ALL CODE REQUIREMENTS. ANY CONFLICT BETWEEN THE CONTRACTOR DOCUMENTS AND THE CODE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER PRIOR TO BID. THE COST OF ANY WORK WHICH ARISES OUT OF ANY CHANGES DUE TO CODE REQUIREMENTS SHALL BE PAID BY THE MECHANICAL CONTRACTOR.

| DATE:      | DR | CH |
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| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF ANTI-CORROSION 15584  
 ROGER DALE POLSTON P.E. # 92228  
 MARVIN LUTHER WOLFE P.E. # 48020

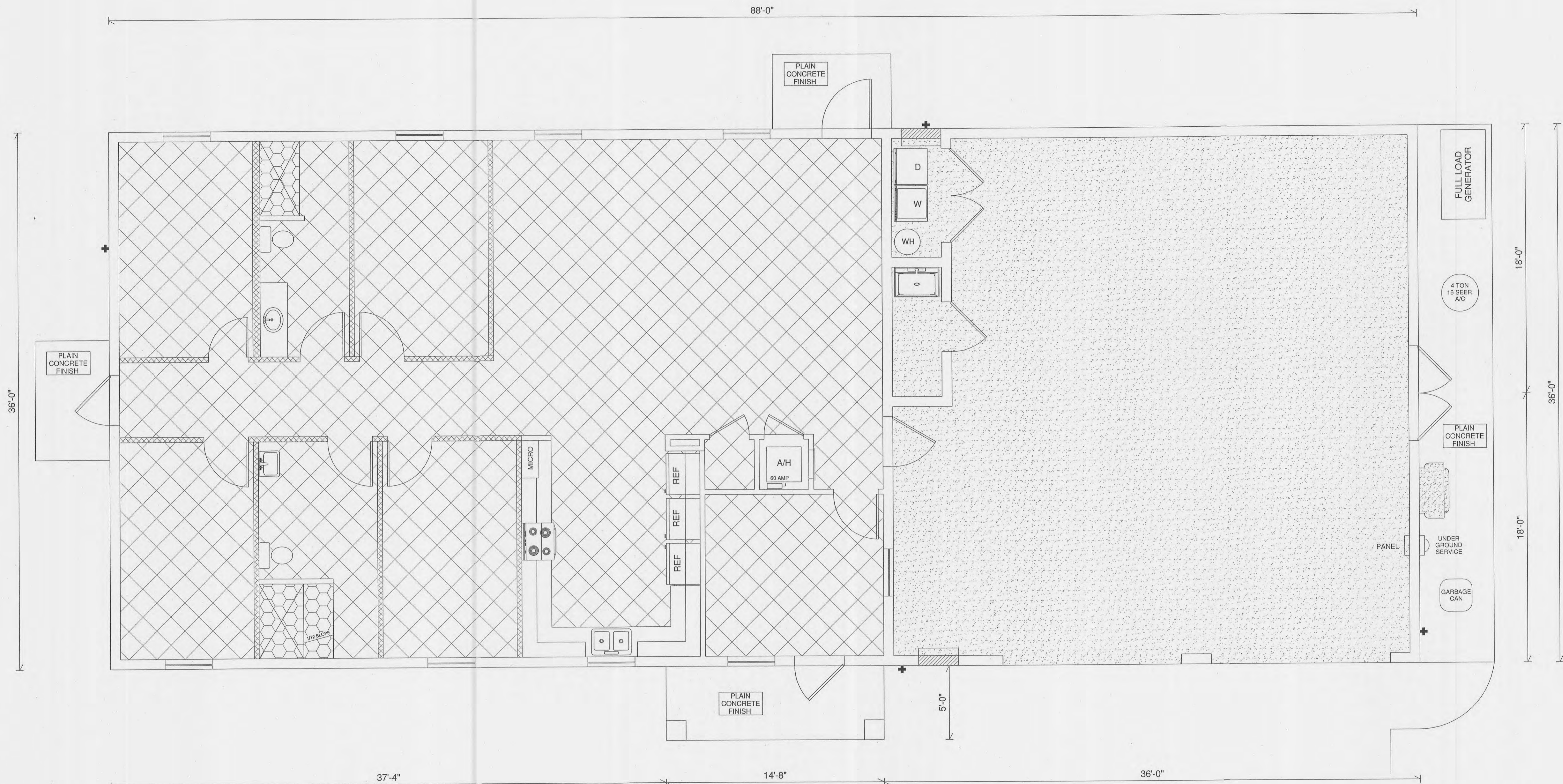
**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS  
 2822 KENIL WORTH BLVD., SEBRING, FLORIDA 33870  
 888-385-5564 - 888-385-5462 FAX

**Highlands County**  
 Board of County Commissioners  
 SEBRING PARKWAY  
 EMS STATION BUILDING

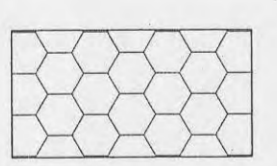
DRAWING:  
**A/C PLAN**  
 SCALE:  
 1/4" = 1'-0"  
 SHEET # **14**

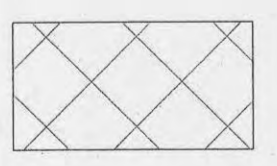
WO# 15071

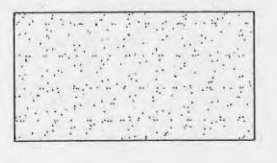


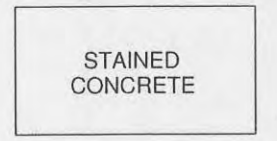



**FLOORING SPECIFICATIONS**

- 

6 X 6 NON-SLIP HEXAGON CERAMIC FLOOR TILE ON SHOWER FLOORS. PROVIDE ALLOWANCE OF \$2.50 PER SQ. FT. FOR TILE ONLY. ALL TILE SETTING MATERIAL & GROUT BY BUILDER. -TYPICAL- (COLOR TO BE SELECTED BY OWNER)
- 

16 X 16 NON-SLIP CERAMIC FLOOR TILE ON FLOORS AS SHOWN. PROVIDE ALLOWANCE OF \$2.50 PER SQ. FT. FOR TILE ONLY. ALL TILE SETTING MATERIAL & GROUT BY BUILDER. -TYPICAL- (COLOR TO BE SELECTED BY OWNER)
- 

NON-SLIP EPOXY PAINT ON GARAGE FLOOR, LAUNDRY ROOM FLOOR & CLOSET AS SHOWN. (COLOR TO BE SELECTED BY OWNER)
- 

STAINED CONCRETE
- 

PLAIN CONCRETE FINISH

| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
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| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6584  
 POLSTON ENGINEERING CONSULTANTS INC.  
 MARVIN LUTHER WOLFE P.E. #46030  
 07/26/16

**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS  
 2925 KENILWORTH BLVD., SEBRING, FLORIDA 3370  
 888-385-5864 • 888-385-5485 FAX

**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

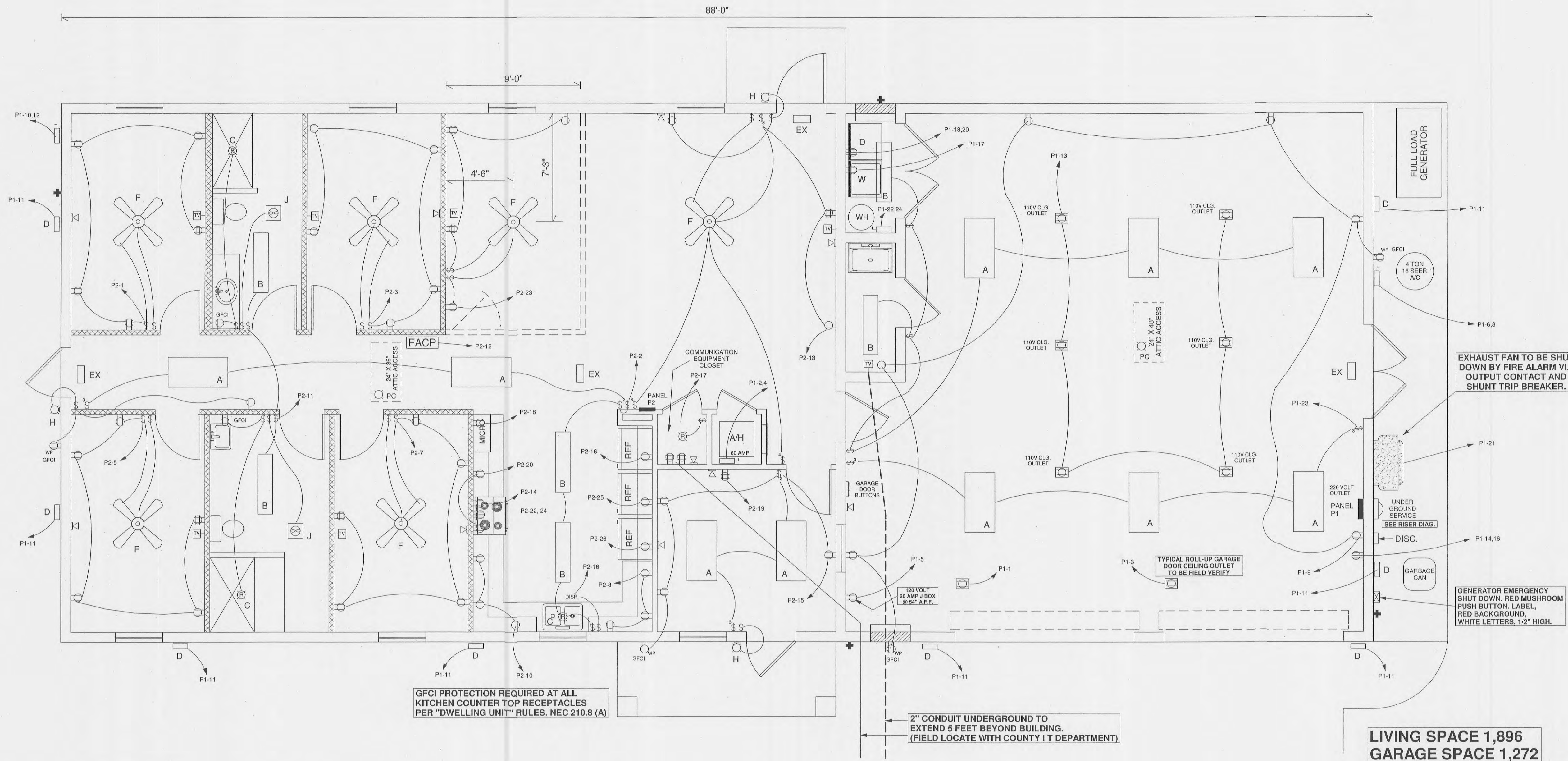
**DRAWING:**  
**FLOORING PLAN**

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

**SHEET #** 15

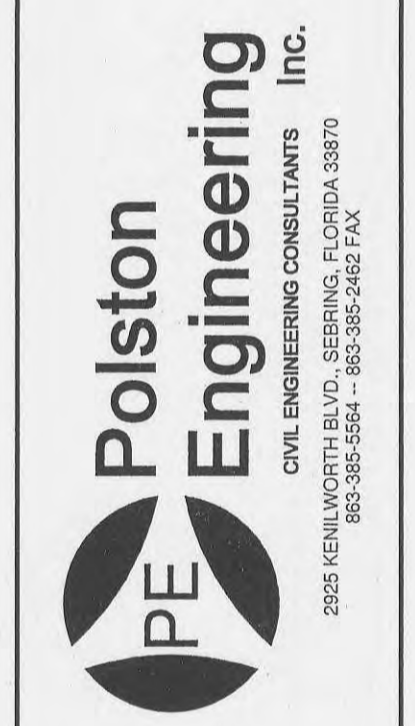
WO# 15071





| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6684  
 REGISTERED PROFESSIONAL ENGINEER  
 MARVIN LUTHER WOLFE, P.E. #46500



Highlands County  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

**DRAWING:**  
**ELECTRICAL PLAN**

SCALE:  
 1/4" = 1'-0"  
 SHEET # 16

**ELECTRICAL NOTES:**

- All branch circuit wiring in MC cable.
- All light fixtures supported per NEC.
- All devices 15 amp, 125 volt. Receptacles to be tamper resistant, mounted 18" AFF to center, except mounted above counters to be 44" AFF to center. Switches are toggle, mounted 46" AFF to center. Color per Owner.
- Exterior wall pack lights and sign lights are to be controlled by a photo cell facing north, with a switch to bypass the photocell should the photo cell fail. Switch to be located by Owner or GC. If necessary, shield the photo cell from lighting on Sebring Parkway.
- Grounding system to be 24 ohms or less. If more ground rods are required, couple the existing rods with another 10' rod to drive deeper. Demonstrate to Owner the ground reading.
- Lightning protection system to be priced separately. Design and installation by a certified and licensed contractor.
- Surge protection device to be installed on panel P1, made by Eaton, Zoro #G3170851, mfr. #CVX050-208Y.
- Three copies in three ring binders, and one disc shall be provided to the Owner for the operational, instructional, and maintenance manuals for the electrical panels, surge arrester, disconnect switches, generator, and automatic transfer switch.
- Electrical panels, disconnect switches shall be labeled with 1" or higher black phenolic tags with 3/16" white lettering. Tags shall be fastened with screws or rivets. Disconnect switch tags shall state the panel and circuit number, and the equipment served. Panels shall state the panel name, voltage and phases. Auto transformer and generator will have red background with 3/16" high white letters.
- Upon completion of the project, the electrical contractor shall review the function and operation of the equipment with the Owner, including shutting off power to the facility to demonstrate the operation of the standby generator. The time and frequency to exercise the generator shall be set per the Owners requirements.
- All work per NEC and local codes.

**FIXTURE SCHEDULE**

| TYPE | DESCRIPTION  |
|------|--|
| A    | 2 X 4 FLUOR. LITHONIA 2GT8432A12120 GEB10IS, W/ PLASTER FRAME, W/ 4 EA. 32 WATT LAMPS                            |
| B    | 1 X 4 FLUOR. LITHONIA GT8232A12120 GEB10IS, W/ PLASTER FRAME, W/ 2 EA. 32 WATT LAMPS                             |
| C    | RECESSED, LITHONIA L7XF W/ 6LF2, 26 WATT TRT LAMP  |
| D    | WALL PACK, RAB LIGHTING WP1CF42, BRONZE, W/ LAMPS  |
| EX   | EXIT LIGHT, LITHONIA, EXR LED EL M6 RED, W/ BATTERY BACK-UP  |
| F    | CEILING FAN, HAMPTON BAY SOUTHWIND 52", BRUSHED NICKLE, W/ REMOTE, MODEL 52379, W/ LIGHT KIT, 40 WATT LAMPS      |
| G    | SIGN LIGHT, RAB LIGHTING EZF32QT, BRONZE, W/ LAMP  |
| H    | EXTERIOR WALL MOUNT, PROGRESS P5721-71, W/ 60 WATT LAMP  |
| J    | BATH EXHAUST FAN, NUTONE QTXEN150, USE W/ TIMER SWITCH, LEVITON LTB30-1LZ (WITH EXHAUST DUCTED TO SOFFIT GRILLE) |

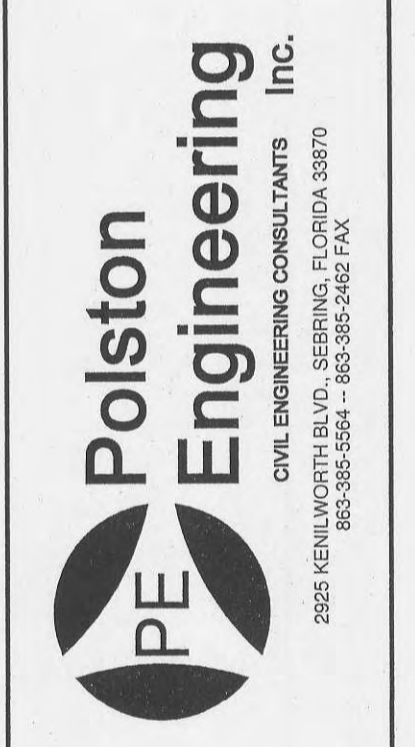
**LIVING SPACE 1,896**  
**GARAGE SPACE 1,272**  
**COVERED ENTRY 73**  
**TOTAL 3,241 SQ. FT.**

| ELECTRICAL LEGEND |  |
|-------------------|--|
| SYMBOL            | DESCRIPTION  |
|                   | Ventilation Fan: Ceiling Mounted   |
|                   | Ceiling Mounted Light Fixture: Recessed  |
|                   | Wall Mounted Light Fixtures: Flush Mounted   |
|                   | Fluorescent Light Fixture  |
|                   | 240V Receptacle  |
|                   | 110V Receptacle: Quadruplex  |
|                   | 110V Receptacles: Duplex, Weather Proof, GFCI  |
|                   | Switches: Single Pole, Weather Proof, 3-Way, 4-Way   |
|                   | SINGLE GANG BOX WITH 1" CONDUIT (WITH PULL STRING) RUN BACK TO CLOSET ON OPPOSITE WALL FROM UTILITY SINK. COUNTY IT DEPARTMENT WILL PROVIDE CABLING & JACKS.                         |
|                   | SINGLE GANG BOX WITH 1" CONDUIT (WITH PULL STRING) RUN BACK TO THE COMMUNICATIONS EQUIPMENT LOCATION IN THE OFFICE. COUNTY IT DEPARTMENT WILL PROVIDE THE VOICEDATA CABLING & JACKS. |



| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
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| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #006864  
 ROBERT DALE POLSTON P.E. # 33224  
 MARVIN LUTHER WOLFE P.E. # 40030



**Highlands County**  
 Board of County Commissioners  
**SEBRING PARKWAY**  
**EMS STATION BUILDING**

**DRAWING:**  
 ELECTRICAL  
 RISER &  
 PANEL SCHEDULE

SCALE:  
 N/A

SHEET # **17**

WO# 15071

### PANEL SCHEDULE

PANEL P 1

FEEDER 3 ea. 3/0 cu    NEUTRAL 3/0 thhn cu    E.G. #6 cu    2 1/2" C

| DESCRIPTION   | 225A MLO | DESCRIPTION |
|---|----------|-------------|
| 1 GARAGE DOOR OPENER 1127 20 50 5000 AIR HANDLER 2            |          |             |
| 3 GARAGE DOOR OPENER 1127 20 50 5000 4                        |          |             |
| 5 SPRINKLER TAMPER/LOW ALARM 180 20 40 4000 CONDENSING UNIT 6 |          |             |
| 7 SPARE -0- 20 4000 8   |          |             |
| 9 GARAGE OUTLETS 1290 20 20 1380 IRRIGATION PUMP 10           |          |             |
| 11 EXTERIOR & SHOW LIGHTING 400 20 1380 12                    |          |             |
| 13 GARAGE CEILING LIGHTS 720 20 30 2680 COMPRESSOR OUTLET 14  |          |             |
| 15 GENERATOR OUTLET & BATT. CHGR 240 20 2680 16               |          |             |
| 17 WASHING MACHINE 1440 20 30 2640 DRYER 18                   |          |             |
| 19 SPARE -0- 20 2640 20                                       |          |             |
| 21 GARAGE EXHAUST FAN 1200 20 30 2250 WATER HEATER 22         |          |             |
| 23 GARAGE LIGHTING 896 20 2250 24                             |          |             |
| 25 SUB PANEL "P2" 9264 100 30 SURGE PROTECTION DEVICE 26      |          |             |
| 27 9796 100 28  |          |             |
| 29 10,500 100 30  |          |             |
| 31 32   |          |             |
| 33 34   |          |             |
| 35 36   |          |             |
| 37 38   |          |             |
| 39 40   |          |             |
| 41 42   |          |             |

\*\* SHUNT TRIP BREAKER

|                   |        |
|-------------------|--------|
| TOTAL LINE A      | 25,431 |
| TOTAL LINE B      | 24,933 |
| TOTAL LINE C      | 23,686 |
| TOTAL A & B & C   | 74,050 |
| 25% LIGHTING      | 710    |
| 25% LARGEST MOTOR | 1602   |
| TOTAL DEMAND VA   | 68,362 |
| TOTAL AMPS        | 188.8  |

### PANEL SCHEDULE

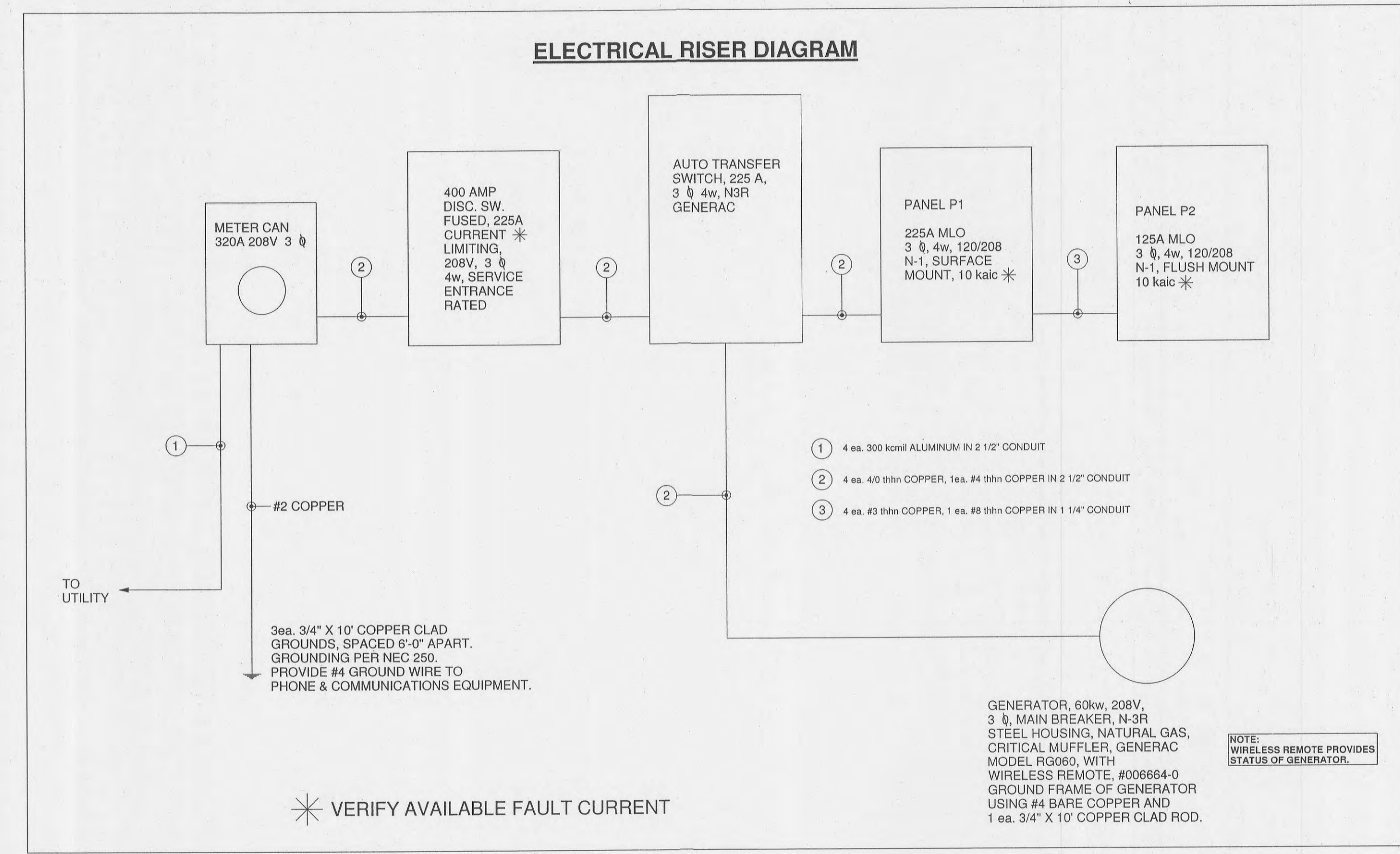
PANEL P 2

FEEDER 3 ea. #3 thhn    NEUTRAL 1 ea. #3 thhn cu    E.G. #8 thhn cu    1 1/4" C

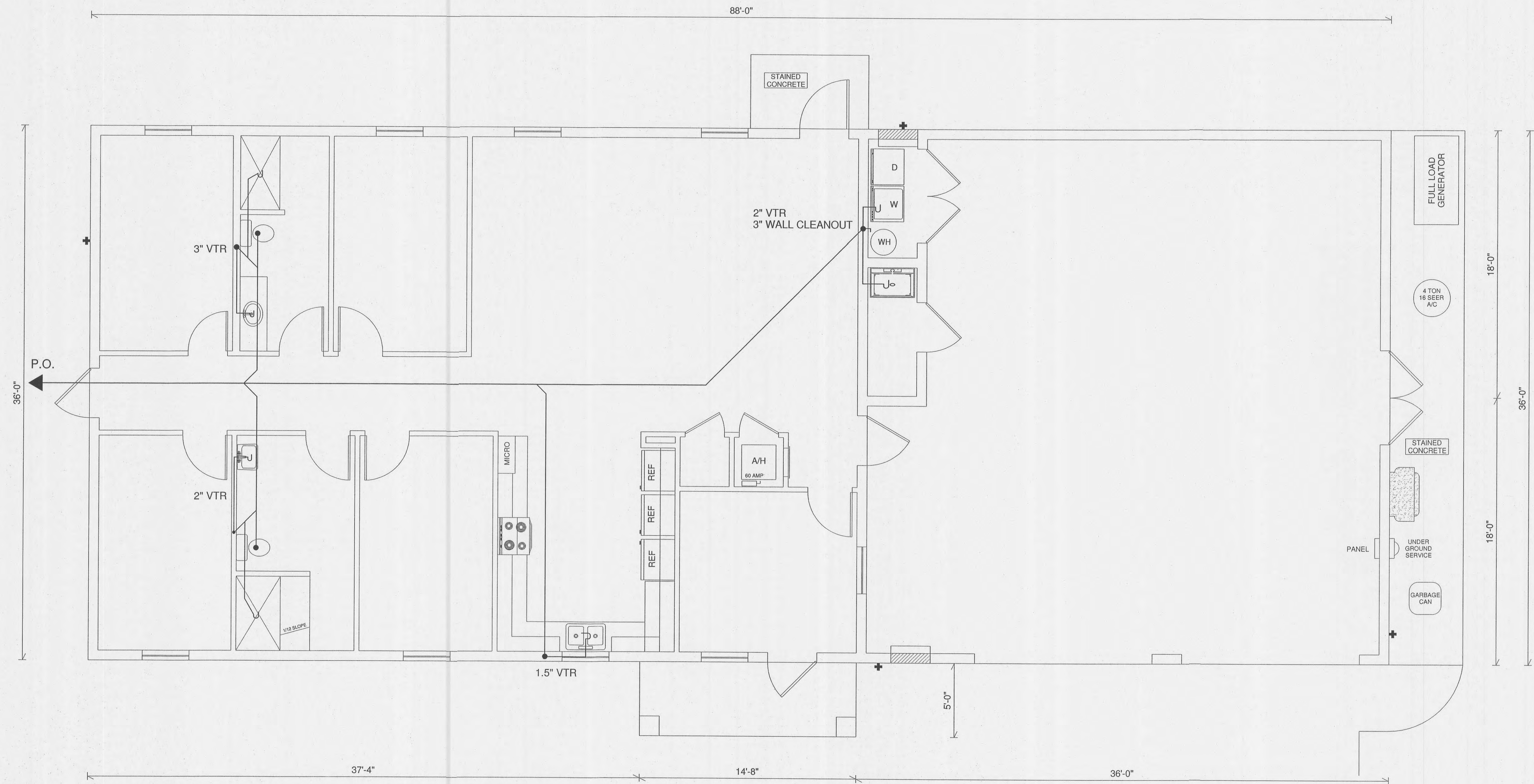
| DESCRIPTION  | MLO, 125A | DESCRIPTION |
|--|-----------|-------------|
| 1 BEDROOM #1 * 1360 20 20 864 KITCHEN HALL LIGHTING 2                                |           |             |
| 3 BEDROOM #2 * 1360 20 20 -0- SPARE 4  |           |             |
| 5 BEDROOM #3 * 1360 20 20 -0- SPARE 6  |           |             |
| 7 BEDROOM #4 * 1360 20 20 540 KITCHEN OUTLETS 8                                      |           |             |
| 9 SPARE -0- 20 540 KITCHEN OUTLETS 10  |           |             |
| 11 H.C. BATH & BATH# 860 20 20 180 FACP 12   |           |             |
| 13 LIVING AREA * 1060 20 20 180 GUARDIAN FIRE SYSTEM 14                              |           |             |
| 15 OFFICE 1396 20 20 1500 REFRIGERATOR #1 16   |           |             |
| 17 COMMUNICATIONS LIGHTING & RECEPTACLES 784 20 20 1760 MICROWAVE GARAGE DISPOSAL 18 |           |             |
| 19 COMMUNICATIONS OUTLET 360 20 20 540 KITCHEN OUTLETS & HOOD 20                     |           |             |
| 21 SPARE -0- 20 50 5000 RANGE 22   |           |             |
| 23 FUTURE BEDROOM * 1180 20 50 5000 24   |           |             |
| 25 REFRIGERATOR #1 1500 20 20 1500 REFRIGERATOR #2 26                                |           |             |
| 27 SPACE 28  |           |             |
| 29 SPACE 30  |           |             |
| 31 32  |           |             |
| 33 34  |           |             |
| 35 36  |           |             |
| 37 38  |           |             |
| 39 40  |           |             |
| 41 42  |           |             |

|                   |                        |
|-------------------|------------------------|
| TOTAL LINE A      | 9264                   |
| TOTAL LINE B      | 9,796                  |
| TOTAL LINE C      | 10,500                 |
| TOTAL A & B & C   | 29,560                 |
| 25% LIGHTING      | SEE PANEL P1 FOR TOTAL |
| 25% LARGEST MOTOR | SEE PANEL P1           |
| TOTAL DEMAND VA   | 29,560                 |
| TOTAL AMPS        | 82.1                   |

\*\* AFCI PROTECTION REQUIRED







| DATE:      | DR | CH |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |

CERTIFICATE OF AUTHORIZATION #6684  
 ROSEDALE POLSTON P.E. # 33222  
 MARVIN LUTHER WOLFE P.E. # 46030



Highlands County  
 Board of County Commissioners  
 SEBRING PARKWAY  
 EMS STATION BUILDING

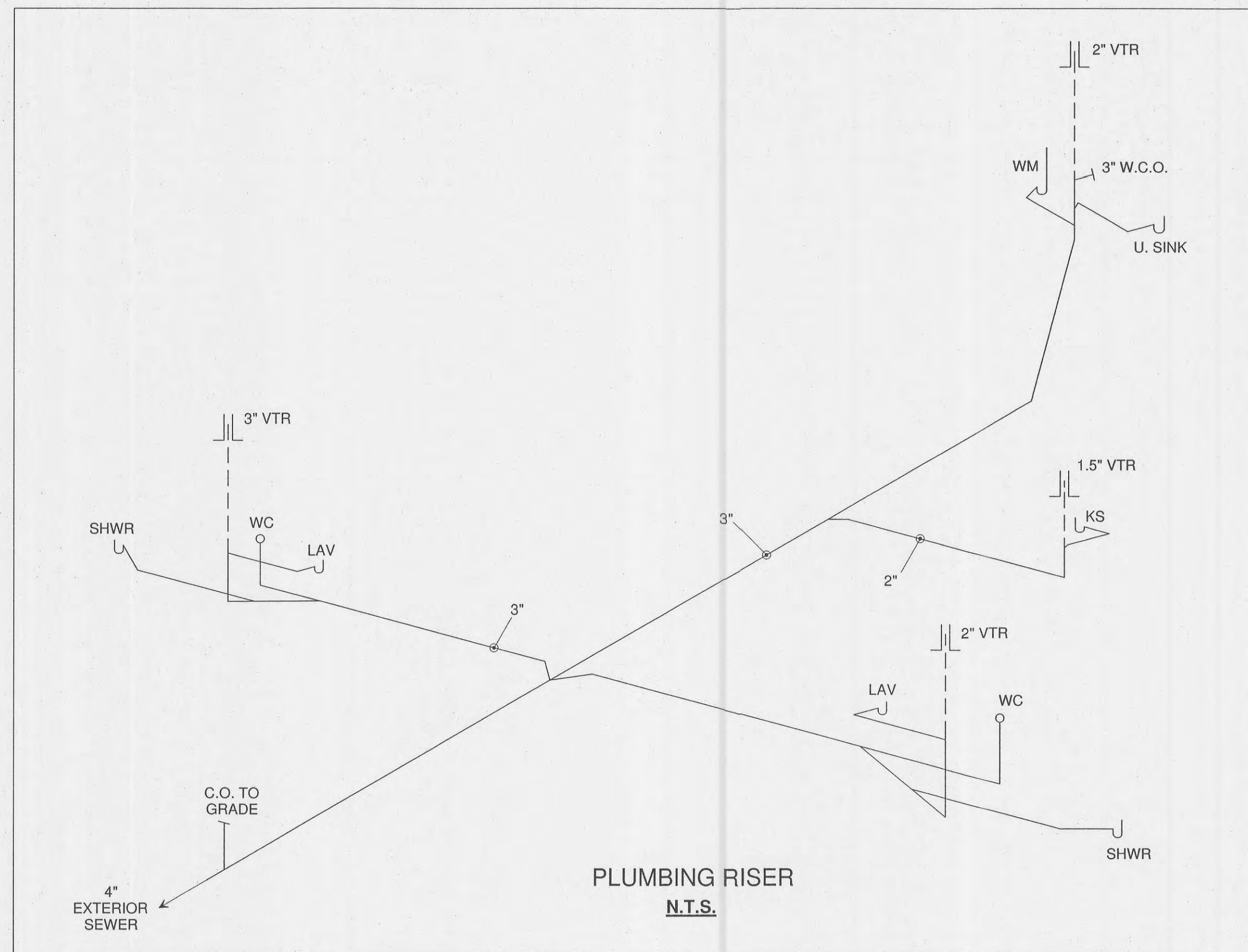
DRAWING:  
 PLUMBING  
 PLAN

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

SHEET # 18

WO# 15071





**PLUMBING NOTES & SPECS**

Plumbing System to be installed in accordance with drawings herein, as well as FBC Plumbing and other applicable codes.

Drainage and vent piping to be schedule 40 PVC/ DWV, installed true to line and grade; joined according to FBC Plumbing.

Building Sewer to be 4" PVC 3034 unless routed under pavement/ concrete, in which case piping shall be PVC/DWV schedule 40.

Water system to be FBC approved plastic distribution system (PEX, CPVC) or copper tubing type L. Sized per FBC; not less than 3/4".

Exterior water service line to be PVC schedule 40, not less than 1", installed with minimum 12" clean soil cover; not to be routed within 10' of building sewer.

Floor drain: Zurn Z507-3NL Cast Iron medium duty deep flange drain with cast iron top & grate

Trap primer: Jones T74-011 1.5"x8" 17ga brass primer tallpiece

Utility sink: Mustee 17W, Delta 2131LF faucet

Kitchen sink: Dayton DSE233224 20 ga double bowl sink; Delta 400-DST faucet

ADA lavatory: Kohler K-2005-0 Kingston basin  
Delta 501-DST faucet  
Mainline ML10294 17 ga brass grid drain  
Mainline ML102EZ Lav Guard trap & supply covers

ADA toilet: Kohler K-4199-0 Highline bowl  
Kohler K-4468-0 Wellworth tank  
Mainline ML1055SSC000 Open front, less cover solid plastic seat; SS hardware  
Mainline ML8942 1.5" x 42" concealed flange grab bar  
Mainline ML8936 1.5" x 36" concealed flange grab bar

Countertop lavatory is cultured marble  
Delta 520-TPM\_DST faucet

Elongated toilet, non ADA bath: Kohler K4198-0 Wellworth elongated bowl  
Kohler K-4468-0 Wellworth tank  
Mainline ML1055SSC000 Open front, less cover solid plastic seat; SS hardware

Shower valves (2) : Delta R10000 valve body, Delta T13220 trim

Water Heater: Rheem 656755 PROE40-T2-RH95 40 gallon tall, 240V 4.5KW/ 4.5 KW

CERTIFICATE OF AUTHORIZATION #6684  
MARVIN LUTHER WOLFE P.E. #4930

PRINTED COPIES ARE NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATED SEAL.

| DATE:      | DR | CI |
|------------|----|----|
| 9-8-2015   |    |    |
| 9-25-2015  |    |    |
| 10-15-2015 |    |    |
| 2-25-2016  |    |    |
| 8-5-2016   |    |    |
| 8-16-2016  |    |    |



Highlands County  
Board of County Commissioners  
SEBRING PARKWAY  
EMS STATION BUILDING

WO# 15071

DRAWING:  
PLUMBING  
RISER & SPECS

SCALE:  
AS SHOWN

SHEET # 19



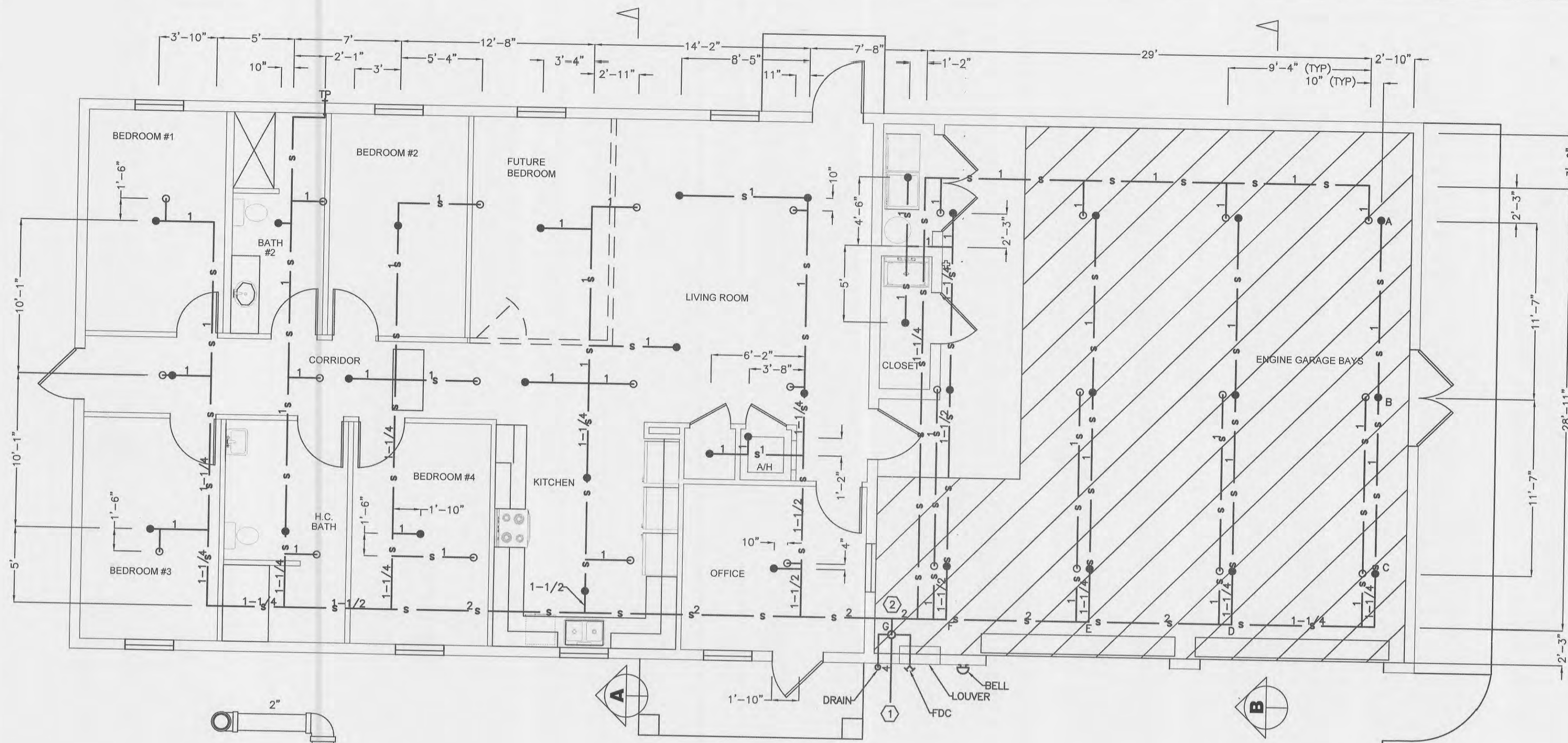




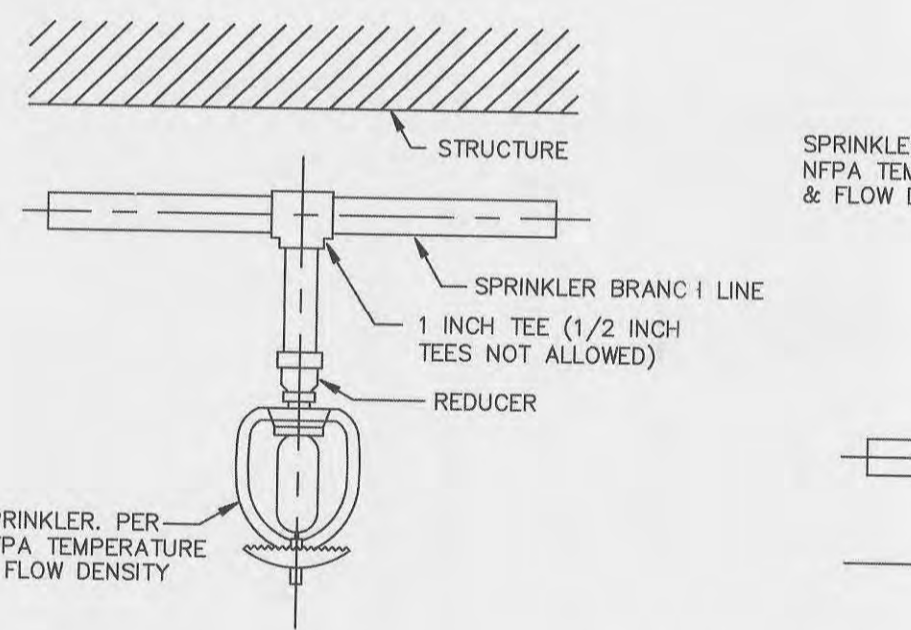
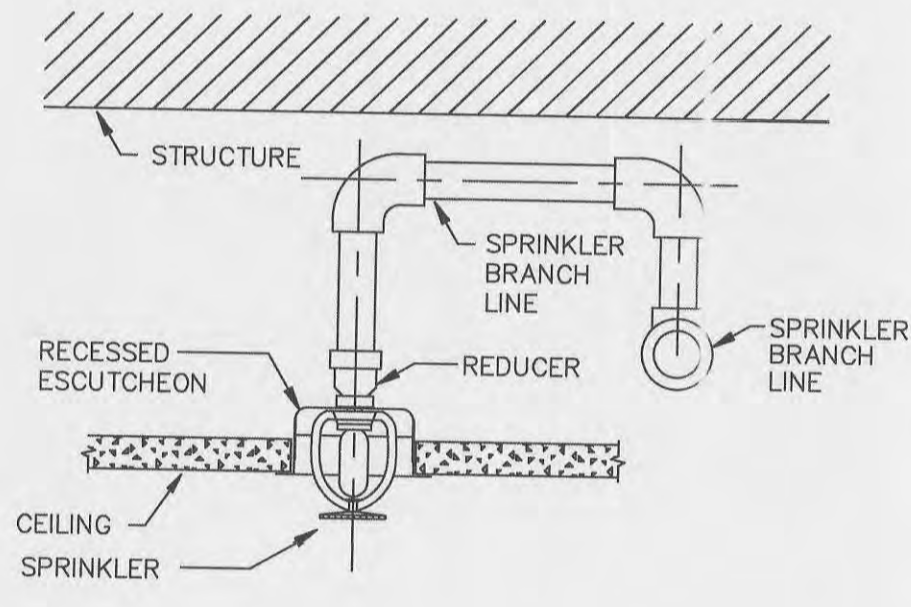
**SHOP DRAWING REQUIREMENTS**

Wet Pipe Water Based Fire Protection System shall be in accordance with 61G15-32.00.4 of the Florida Statutes and submitted to the Engineer for approval.

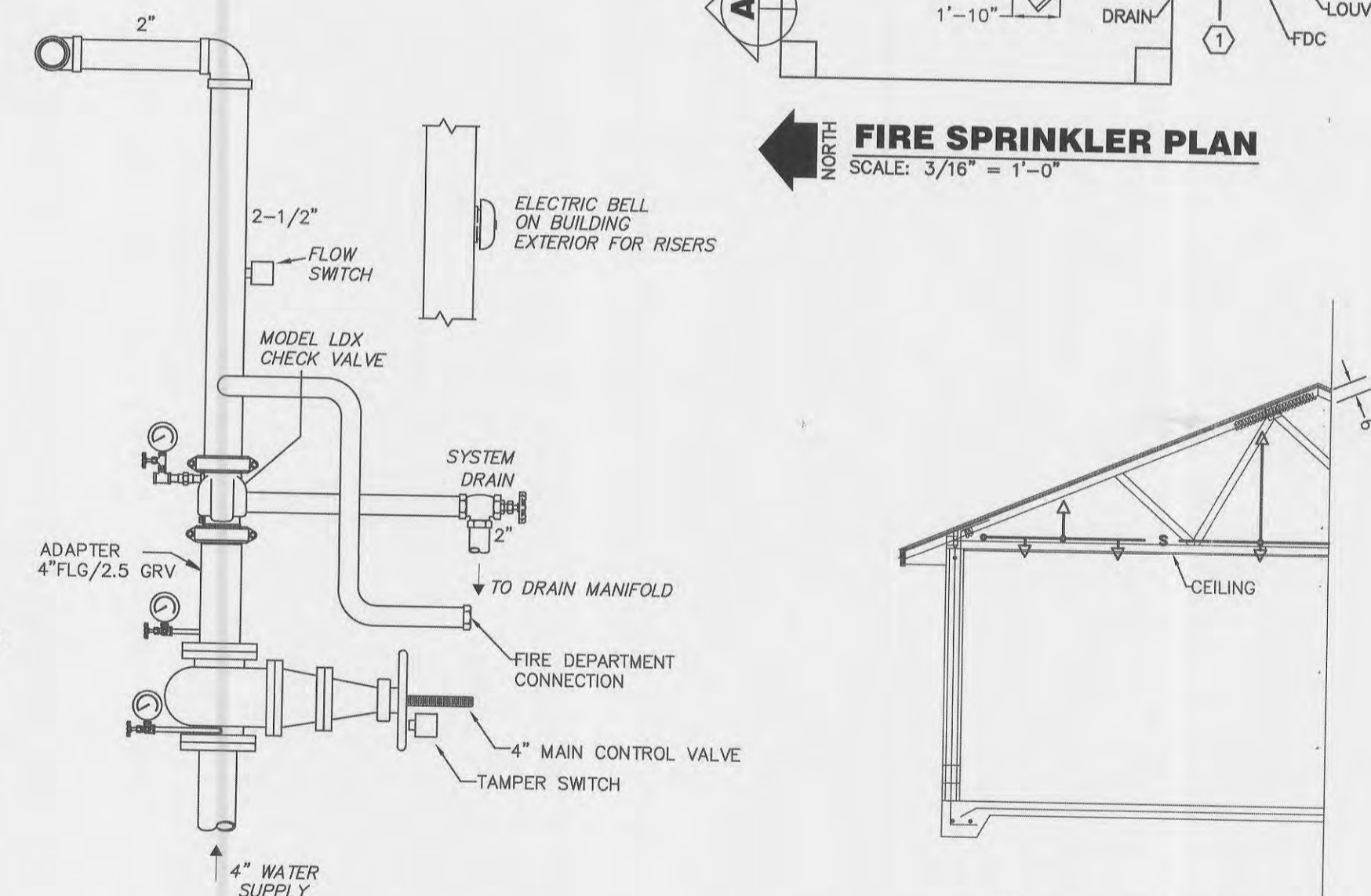
- 1-The Point of Service for the fire protection water supply as defined by Section 633.021(18), F.S. shall be shown.
- 2-NFPA standard applied shall be indicated, or in the case where no standard exists, the engineering study, judgments, and/or performance based analysis and conclusions shall be submitted.
- 3-Classification of hazard occupancy for each room or area shall be as per the room schedule.
- 4-Design approach, which includes system type, densities, device temperature rating, and spacing for each separate hazard occupancy, shall be as referenced in the general notes on this drawing.
- 5-Characteristics of water supply to be used, such as main size and location, whether it is dead-end or circulating; and if dead-end, the distance to the nearest circulating main, as well as its minimum duration and reliability for the most hydraulically demanding design area.
- 6-The flow test data, including date and time of test who conducted test or supplied information, test elevation, static gauge pressure at no flow, flow rate with residual gauge pressure, hydrant butt coefficient, and location of test in relation to the hydraulic point of service.
- 7-Valving and alarm requirements to minimize potential for impairments and unrecognized flow of water.
- 8-Microbial Induced Corrosion (MIC), such efforts SHALL consist of discussions with the local water official, familiar with conditions in the local area. Should conditions be found that may result in MIC contamination of the fire protection piping, the engineer shall be notified and design corrective measures.
- 9-Back flow prevention and metering specifications and details to meet local water surveyor requirements including maximum allowable pressure drop.
- 10-Quality and performance specifications of all yard and interior fire protection components.



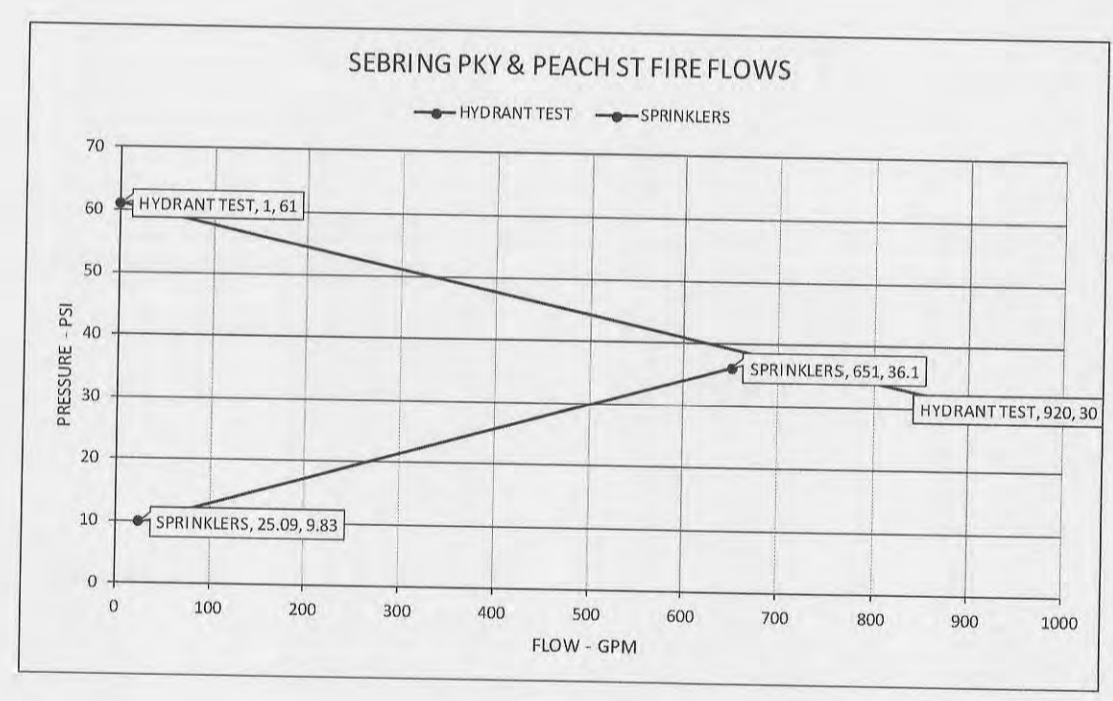
**FIRE SPRINKLER PLAN**  
SCALE: 3/16" = 1'-0"



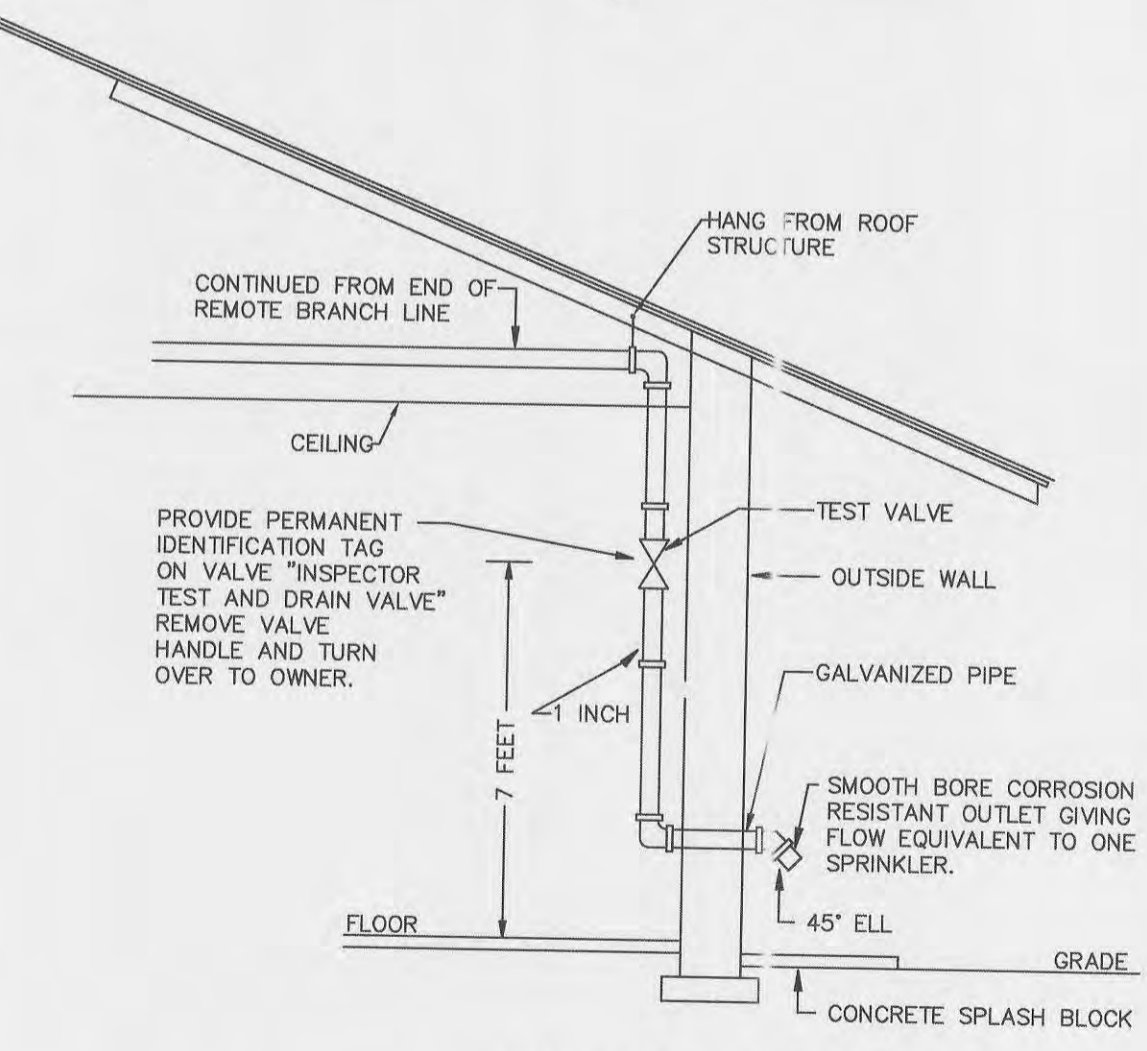
**HEAD DETAILS**  
NTS



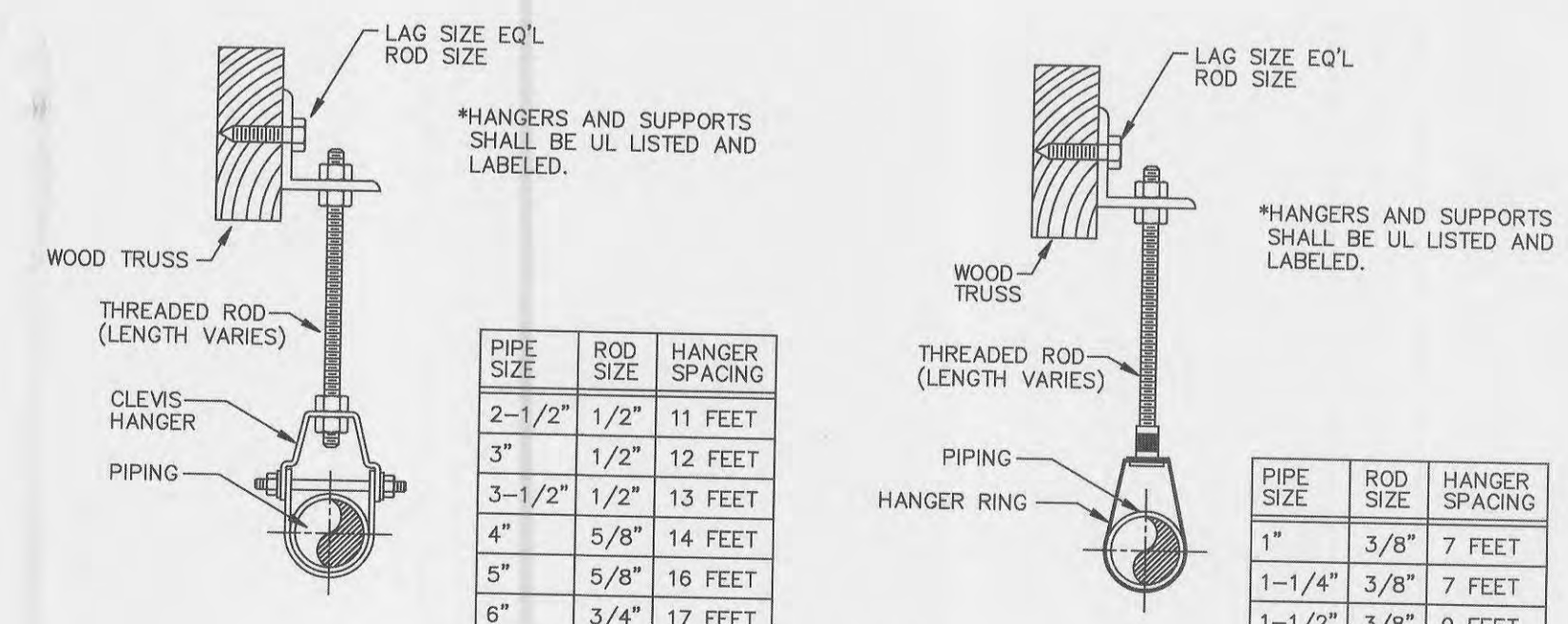
**WET SPRINKLER SYSTEM RISER**  
NTS



**FLOW CHART**

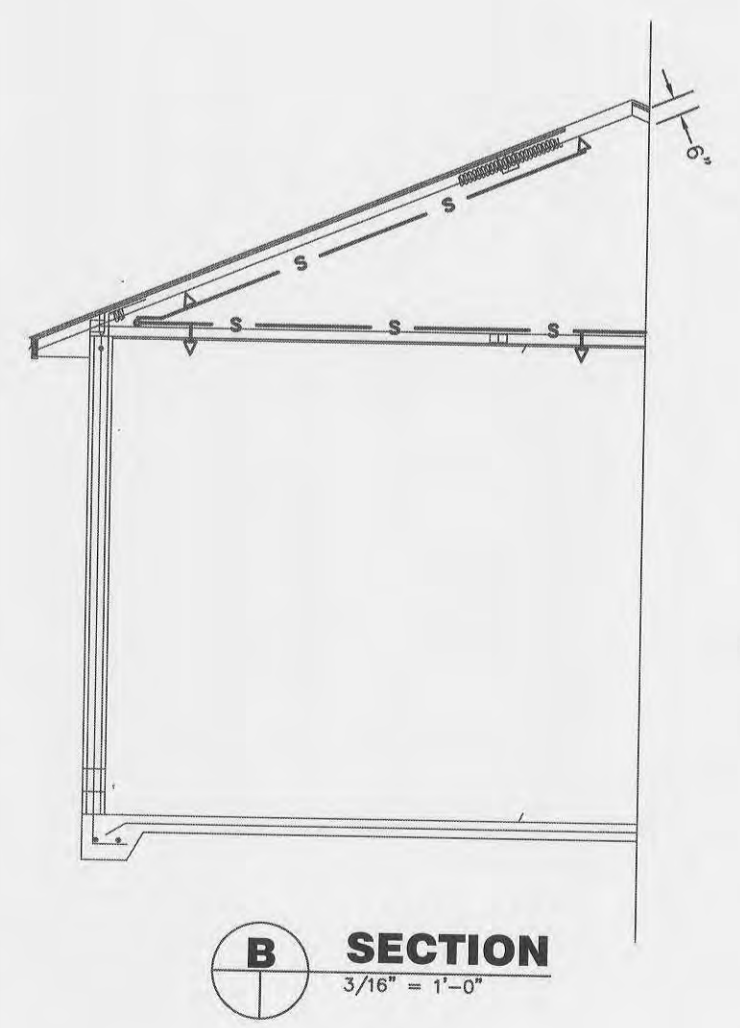


**DRAIN/TEST POINT**  
NTS



**HANGER DETAILS**  
NTS

**SECTION A**  
3/16" = 1'-0"



**SECTION B**  
3/16" = 1'-0"

**Hydraulic Calculations For: Garage Area**

Project Name: EMS Station Sebring  
Project Address: Sebring, Florida  
Project Number: VN001  
Date: 8-09-15  
Design Data: Area 1 (Engine Bays)  
System Type: Wet  
Occupancy Classification: Ordinary Hazard, G1  
Density: 0.195 GPM/Sq. Ft.  
Area of Application: 988 Sq./Ft.  
Average Coverage Per Sprinkler: 75.8 Sq./Ft.  
Minimum Sprinkler Coverage: 107.8 Sq./Ft.  
Maximum Sprinkler Coverage: 88.1 Sq./Ft.  
K Factor: 5.6, Pressure: 7 psi: 14.8 GPM  
Special Sprinklers: N/A  
Number of Sprinklers Calculated: 10  
In-Rack Demand: N/A  
Hose Streams: N/A  
Attic Sprinklers: YES  
Total Water Required: 148 GPM + 250 GPM Hose allowance = 398 GPM  
Main Pressure Variation Allowance: 5 PSI  
Residual Base of Riser Pressure Required at Flow: 25.3 PSI

Name of Designer: R. O. Covington, P.E. (016041)  
Address: R.O. Covington and Associates  
12 Eagle Avenue  
Eagle Lake, Florida 33839  
Authority Having Jurisdiction: City of Sebring, Highlands County, Florida

**SYMBOL LEGEND**

- ▽ SIDE WALL SPRINKLER
- UPRIGHT HEAD ABOVE CEILING, 210
- PENDENT HEAD BELOW CEILING, 165
- ⊙ TAMPER SWITCH
- ⊕ FLOW SWITCH
- ⊖ ALARM
- FDC FIRE DEPARTMENT CONNECTION
- TB THRUST BLOCK
- TS TAMPER SWITCH
- FS FLOW SWITCH
- SOV SHUT OFF VALVE
- CV CHECK VALVE
- DV DRAIN VALVE
- TP TEST POINT
- ⊕ METAL PIPE SLEEVE SIZE SHOWN
- FOS POINT OF SERVICE
- RM ROOM

**GENERAL NOTES:**

1. SEE ROOM SCHEDULE FOR ROOM OCCUPANCY.
2. FIRE SPRINKLER CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR HYDROSTATIC CALCULATIONS WITH SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW BY OWNER'S ENGINEER. FIRE SPRINKLER CONTRACTOR SHALL HAVE ENGINEER OF RECORD AND RECORD DRAWINGS COST AS PART OF HIS BID.
3. THIS DRAWING FOR CONSTRUCTION MAY BE ACCEPTED BY THE CONTRACTOR'S ENGINEER TO PROVIDE HIS ENGINEERED INSTALLATION DRAWING.
4. SPRINKLERS SHALL BE MOUNTED SEMI RECESSED PENDANT UNDER CEILING IN LIGHT HAZARD AREAS, PENDENT IN UNDER CEILING ORDINARY HAZARD AREAS AND UPRIGHT UNDER EXPOSED ROOF STRUCTURE AND ABOVE CEILING. COVERAGE PER SPRINKLER SHALL NOT EXCEED 130 SQ. FT. (COMBUSTIBLE MEMBERS < 3FT) ABOVE CEILING AND 188 SQ. FT. BELOW CEILING IN LIGHT HAZARD AREAS AND 130 SQ. FT. IN ORDINARY HAZARD AREAS.
5. NEFA 13 QUALITY OF MATERIALS WITH THIN WALL STEEL PIPE AS ALLOWED BY CODE SHALL BE BASES OF CONSTRUCTION.
6. COORDINATE DUCT WORK WITH SPRINKLER CONTRACTOR. DUCT HAS PRIORITY WHEN COORDINATED. WHEN NOT COORDINATED PIPE SHALL BE RELOCATED AS REQUIRED.
7. POTABLE WATER AND FIRE MAIN WATER WILL BE FED FROM SEPARATE RPBFP LOCATED NORTH EDGE OF PROPERTY.

**DRAWING NOTES:**

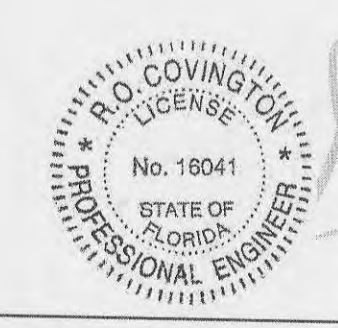
- 1) CONSTRUCT COMPLETE AND OPERATING SYSTEM OF FIRE SPRINKLERS INCLUDING PIPES, FITTINGS, VALVES, CONTROLS, AND ETC. TO MATCH FIELD CONDITIONS, ACTUAL OCCUPANCY HAZARD AND WATER SOURCE.
- 2) PROVIDE FLOW TEST TO VERIFY FLOW TEST MINIMUM ESTIMATED PRESSURES AT THE BASE OF THE RISER THEY SHALL BE GREATER THAN THE CALCULATED VALUE. NOTIFY OWNER'S ENGINEER PRIOR TO ANY CONSTRUCTION.
- 3) COORDINATE INSTALLATION OF SLEEVES THROUGH BLOCK WALL FOR DRAIN AND FDC PIPES BETWEEN LOUVER AND INTERIOR WALL.
- 3) MINIMUM HEAD CLEARANCE FROM WALL SHALL BE 6 INCHES.

**CONSTRUCTION NOTES:**

- 1) FROM POS AND RPBFP PER CIVIL DRAWINGS. SEE SITE PLAN FOR REFERENCE.
- 2) RISER SHALL BE PER DETAIL. LOCATE 12" FROM INTERIOR WALLS AND WALL STRUCTURE.

**ROOM SCHEDULE**

| MARK              | HAZARD   | COVERAGE | AREA | HEADS | NOTES |
|-------------------|----------|----------|------|-------|-------|
| BEDROOM #1        | LIGHT    | 168      | 131  | 1     |       |
| BATH #2           | LIGHT    | 168      | 87   | 1     |       |
| BEDROOM #2        | LIGHT    | 168      | 130  | 1     |       |
| BEDROOM #5        | LIGHT    | 168      | 131  | 1     |       |
| LIVING ROOM       | LIGHT    | 168      | 364  | 2     |       |
| OFFICE            | LIGHT    | 168      | 130  | 1     |       |
| KITCHEN           | LIGHT    | 168      | 174  | 1     |       |
| BEDROOM #4        | LIGHT    | 168      | 130  | 1     |       |
| HC BATH           | LIGHT    | 168      | 116  | 1     |       |
| BEDROOM #3        | LIGHT    | 168      | 131  | 1     |       |
| CORRIDOR          | LIGHT    | 168      | 173  | 1     |       |
| AH                | LIGHT    | 168      | 11   | 0     |       |
| GARAGE            | ORDINARY | 130      | 1130 | 9     |       |
| CLOSET #1         | ORDINARY | 130      | 29   | 0     |       |
| CLOSET #2         | ORDINARY | 130      | 27   | 0     |       |
| GARAGE AREA ATTIC | LIGHT    | 130      | 1202 | 9     |       |
| LIVING AREA ATTIC | LIGHT    | 130      | 1779 | 14    |       |



Digitally signed by Robert O Covington  
DN: c=US, st=Florida, l=Eagle Lake,  
email=rcovington@tampabay.rr.com,  
ou=R. O. Covington & Associates, Inc., cn=Robert O Covington  
Location: Practice ACS  
Date: 2016.08.16 16:03:40 -0400

*Robert O Covington*  
8-18-2016

**R. O. COVINGTON & ASSOCIATES, INC.**

**CONSULTING ENGINEERS** License # 05964  
Robert O. Covington PE #016041 Phone: (863) 292-9294  
12 Eagle Avenue Fax: (863) 299-6328  
P.O. Box 1500 rcoonsult@tampabay.rr.com  
Eagle Lake, FL 33839 www.rocovington.com

R.O. Covington & Associates, Inc. owns the design embodied in any expression of this drawing. It may only be used with written permission. R.O. # VN001 © 2005

|  |            |             |
|--|------------|-------------|
| Date                                     | Checked By | Project     |
| 08/16/2016                               | ROC        | SEBRING, FL |
| Title                                    | Sheet      |             |
| <b>PARKWAY<br/>EMS STATION - SEBRING</b> | <b>F1</b>  |             |