



January 6, 2016

Project No.: C15-0029

## New Construction for Ascension Parish Fire District 3 Station #34

### ADDENDUM # 02

The following information shall be considered part of the Contract Documents for the above referenced project and shall take precedence over any conflicting statements contained therein. Revise all other notes, schedules, specifications and drawings as required.

#### GENERAL

1. Clarification from Structural Engineer – All exterior stud walls are shear wall. There are no interior shear walls.
2. Clarification – Fluid applied air-infiltration barrier and waterproofing shall be used at wood construction locations. 2 layers of #15 felt shall not be used in the project.
3. Clarification – Window roller shades Basis of Design shall be Phifer SheerWeave Style 7100 Blackout Fabric or equal.
4. Clarification – Trench drain grate Basis of Design shall be Zurn P12-DGE or equal.
5. Clarification – The mullion spacing of Storefront D on Sheet A4.1 shall match the Section Door glazing panel spacing. See #4 under Drawings.
6. Clarification – Include ½" plywood and self-adhering sheet waterproofing above the metal deck of Engine Room. See #6 under Drawings.

#### DRAWINGS

1. Refer to Sheet A1.2  
Insert Sheet **A1.2** with revised drawing **2A1.2**, clarifying downspout locations.
2. Refer to Sheet A2.1  
Insert Sheet **A2.1** with revised drawings **1A2.1** with CMU pilasters in Engine Room 114 and new location of Doors 108-2 and 108-1.
3. Refer to Sheet A5.1  
Insert Sheet **A5.1** with revised drawing **1A5.1** clarifying ceiling finish of Engine Room 114 and Gear 115.
4. Refer to Sheet A6.1

ADDENDUM

Insert Sheet **A6.1** with revised drawing **3A6.1** showing alignment of Storefront D mullions with Section Door glazing.

**5. Refer to Sheet A7.1**

Insert Sheet **A7.1** with revised drawings **1A7.1** and **2A7.1** showing ceiling construction of Engine Room 114.

**6. Refer to Sheet A8.5**

Insert Sheet **A8.5** with new drawings **8A8.5** and **9A8.5**. Drawings **1A8.5** and **3A8.5** included revisions to Engine Room roof deck.

**7. Refer to Sheet A10.2**

Insert Sheet **A10.2** with revised drawing **8A10.2**.

**8. Refer to Sheet S1.01**

Insert Sheet **S1.01** with revised Foundation Plan.

**9. Refer to Sheet S2.01**

Insert Sheet **S2.01** with revised Section B and Keynotes.

**10. Refer to Sheet S3.02**

Insert Sheet **S3.02** with revised Roof Framing Plan.

**11. Refer to Sheet M1.1**

Insert Sheet **M1.1** with revised drawings **1M1.1** with relocation of APU-2.

**12. Refer to Sheet P1.1**

Insert Sheet **P1.1** with revised Plumbing Schedule.

## **SPECIFICATIONS**

1. Section 074213, Metal Ceiling Panels – Insert the attached specification for Metal Ceiling Panels.
2. Section 083613, Sectional Doors – Insert the attached specification for Sectional Doors.
3. Section 088000, Glazing – Section 2.9 B. 3. Tint Color shall be Solargray.
4. Section 105113, Metal Lockers – Lockers shall be Knocked-Down, standard metal type. Size shall be 24"W x 24"D x 72"H.
5. Section 113100, Residential Appliances
  - 2.2 Cooking Appliances
    - A. Range: Basis of Design is DCS Model RGV-305.
    - B. Microwave: Basis of Design is Kitchen Aid KCMS 1655BSS.
  - 2.4 Cleaning Appliances
    - B. Clothes Washer: Basis of Design is Speed Queen AFN50RSP.
    - C. Clothes Dryer: Basis of Design is Speed Queen ADE3SRGS.
6. Section 313116, Termite Control – Insert the attached Termite Control Specification.

## PRIOR APPROVALS

Items listed below are approved manufacturers. It is still the contractor's responsibility to provide a product equal to the specifications by that approved manufacturer.

<u>Equipment Item</u>	<u>Manufacturer</u>
072627 Fluid Applied Membrane Air Barriers	Carlisle – Barritech VP
074113 Metal Roof Panels	Ray-Bros Inc. – RBI-200
074213 Metal Ceiling Panels	Ray-Bros Inc. – RBI-100
105113 Metal Lockers	List Industries – Classic KD Wardrobe Lockers  WEC – Durable Lockers
Division 22 Plumbing Fixtures	<b>P1</b> – Zurn Z5955SS-EL <b>P2</b> – Zurn Z5755-U (urinal), Zurn Z6003 (flush valve), Zurn Z1221 (carrier) <b>P3</b> – Zurn Z5341-PED (lavatory), Zurn Z1231 (carrier) <b>P4-A</b> – Delta 23C644-R4 – Zurn Z831B4-XL (faucet), Zurn Z8743-PC (grid drain), Zurn Z8700-PC (p-trap), Zurn Z8804-XL-LR-PC (supply kit) <b>P5</b> – Aquarius A4136SH OT <b>P5-A</b> – Delta T13491
Division 26 Light Fixtures	<b>L1</b> – Corelite DSI-WS-4L35-1C-UNV-SU-JB-4' <b>L2</b> – Corelite DSI-WS-2L35-IC-UNV-SU-JB-4' <b>L3</b> – Halo Commercial PD6V142E / 60VHWF

- L4** – Halo Commercial  
PD6H142E / 62H3GWB
- L5** – American Scientific Lighting  
CCV8/2/T8/F17/DV
- L5A** – American Scientific Lighting  
CCV8/2/T8/F32/DV
- L6** – Prima Lighting 2840L-E6-  
LD-SV-SC-UV-358
- L8** – Halo H550ICAT /  
ML5609835 / 591WB
- L9** – Metalux 8TSSF-232-UNV-  
EB81-U / WG/SSF4FT-B  
/ AYC-CHAIN/SET-U
- L10** – Lumark XTOR5ARL
- L12** – Original Cast Lighting  
ML1-010B-18-GW-GRP-  
2QD26-120
- L15** – Halo HU1018D930P
- L16** – Metalux SNF-128T5-UNV-  
EBT1-U
- EXIT** – Sure-lites EEX71/2R

074113 Metal Roof Panels

PAC-Clad – Tite Loc Plus

Drexel Metals – DMC200S

End of Addendum No. Two





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Scales stated herein are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

NEW CONSTRUCTION OF  
**ASCENSION PARISH FIRE DISTRICT 3  
 STATION #34**  
 BLUFF ROAD PRAIRIEVILLE, LA

map engineer:  
 CRUMB ENGINEERING  
 4609 FAIRFIELD STREET  
 METAIRIE, LA 70006  
 504.455.4450

civil engineer:  
 MR ENGINEERING & SURVEYING  
 9345 INTERLINE AVENUE  
 BATON ROUGE, LA 70809  
 225.490.9592

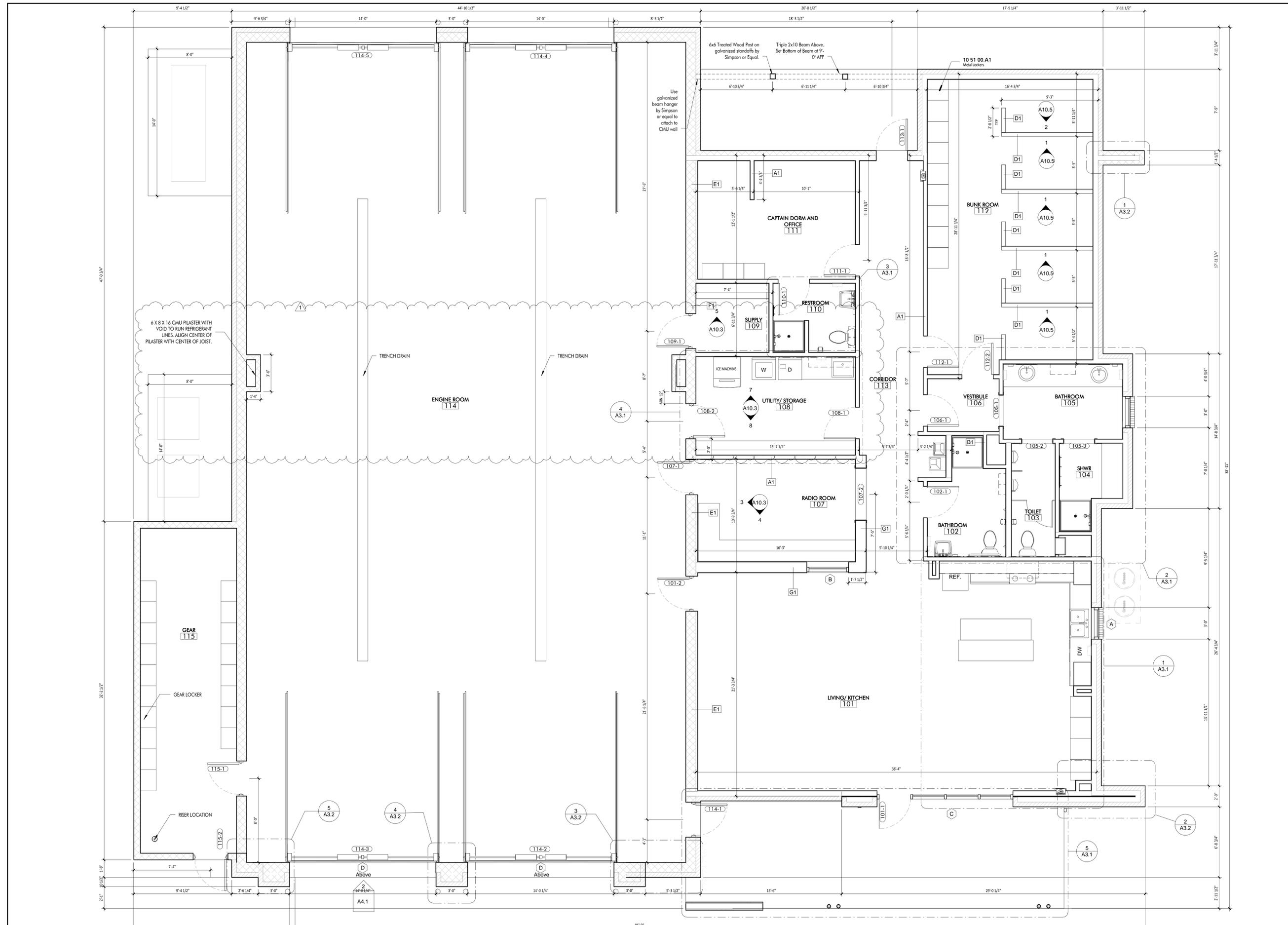
structural engineer:  
 FORTE AND TABLADA  
 9107 INTERLINE AVENUE  
 BATON ROUGE, LA 70809  
 225.927.9321

other:

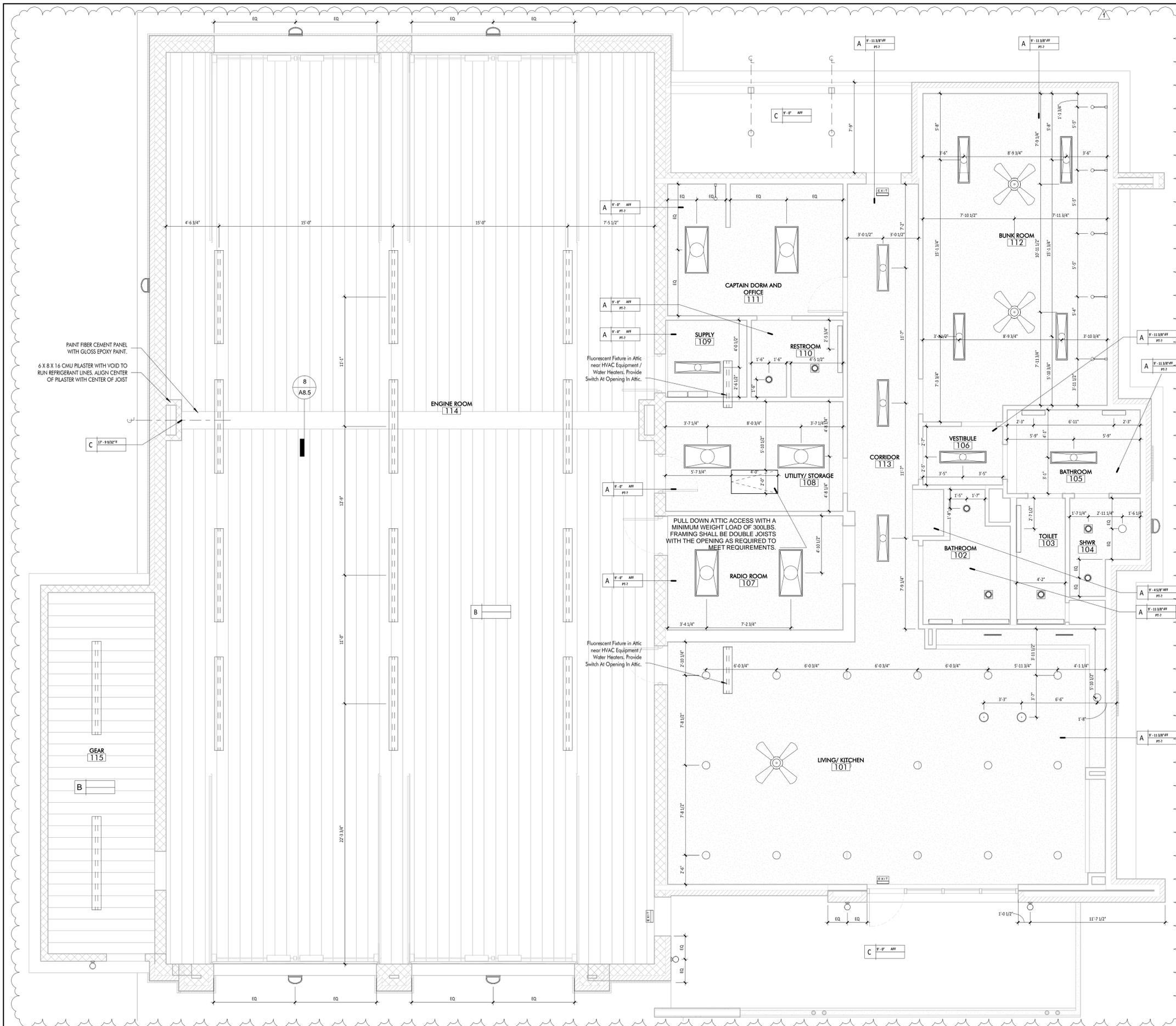
No.	Description	Date
1	Addendum 2	1/6/16

date  
 OCTOBER 9, 2015

sheet  
**A2.1**

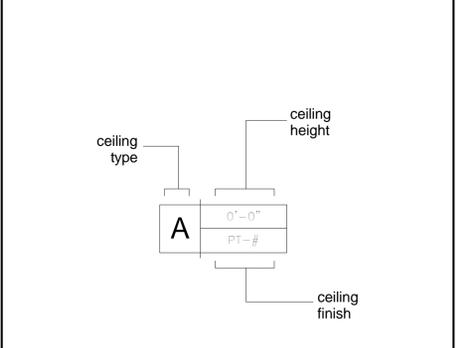


**1 FLOOR PLAN**  
 1/4" = 1'-0"



Reflected Ceiling Legend	
A	5/8" PAINTED GYP. BD.
B	PREFINISHED METAL PANEL
C	PAINTED FIBER CEMENT PANEL

2 Ceiling Legend



3 Ceiling Tag Legend

- VANITY WALL MOUNTED FIXTURE
- EXTERIOR WALL MOUNTED FIXTURE
- HANGING FIXTURE
- SURFACE MOUNT
- RECESSED CAN LIGHT
- 1X8 SURFACE MOUNT
- 1X4 RECESSED MOUNT
- 2X4 RECESSED MOUNT
- UNDERCABINET LIGHT
- CEILING FAN
- EXIT SIGN
- HEAT/VENT/LIGHT

NOTE: CONTRACTOR TO PROVIDE ACCESS PANEL LAYOUT AT BEGINNING OF JOB TO ALLOW ACCESS TO NECESSARY PIPING AND VALVES IN ENGINE BAY.

1 First Floor Lighting Plan  
1/4" = 1'-0"

4 Lighting Legend



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other:

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PROJ. # . C15-0029  
sheet  
**A5.1**



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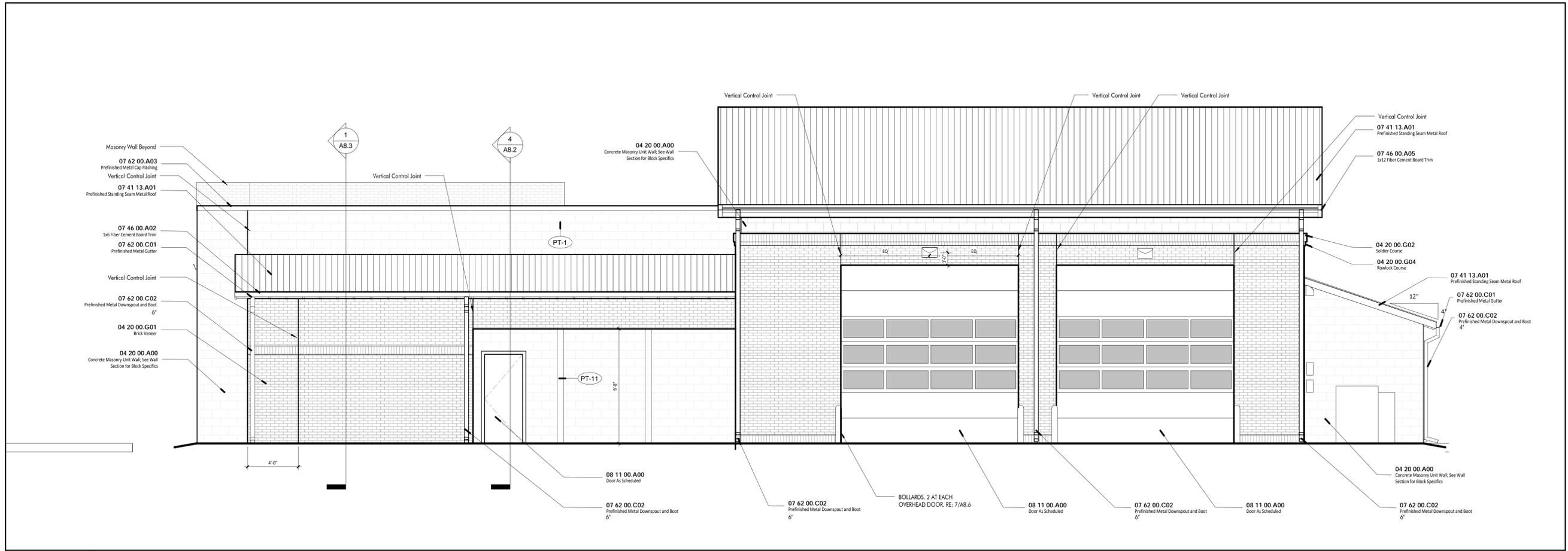
map engineer:  
CRUMB ENGINEERING  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006  
504.455.4450  
civil engineer:  
MR ENGINEERING & SURVEYING  
9345 INTERLINE AVENUE  
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structural engineer:  
FORTE AND TABLADA  
9107 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
225.927.9321  
other:

No.	Description	Date
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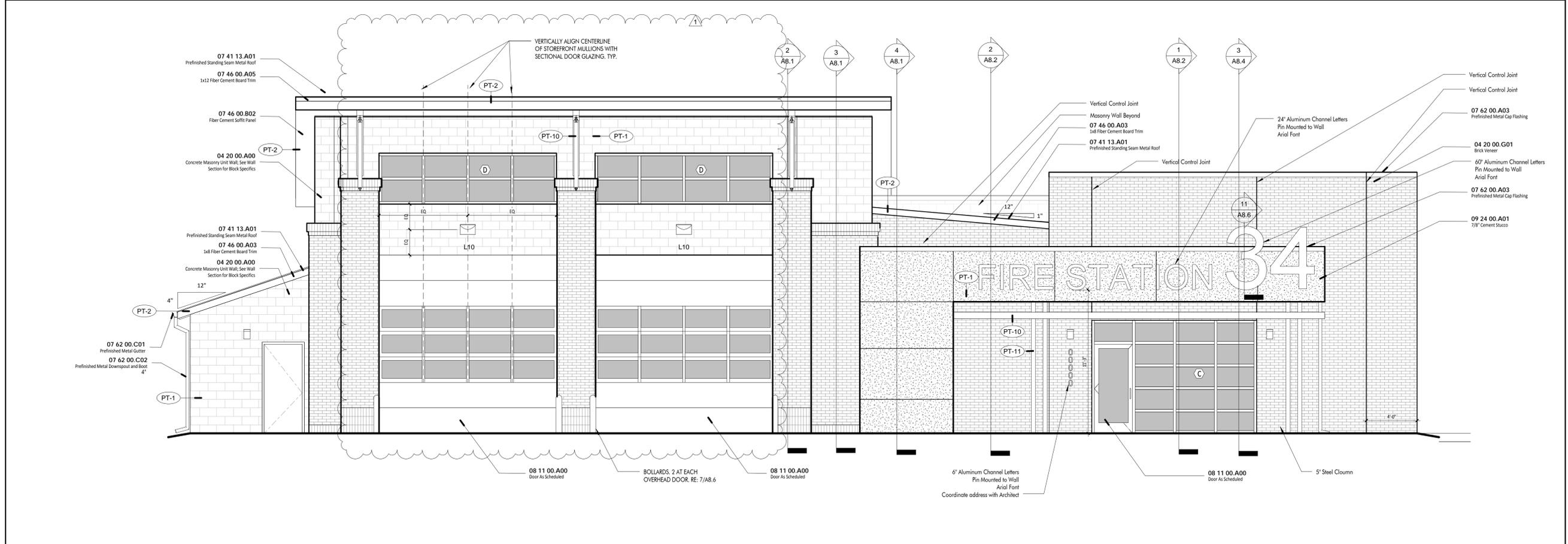
date  
OCTOBER 9, 2015

sheet

A6.1



**2 WEST ELEVATION**  
1/4" = 1'-0"



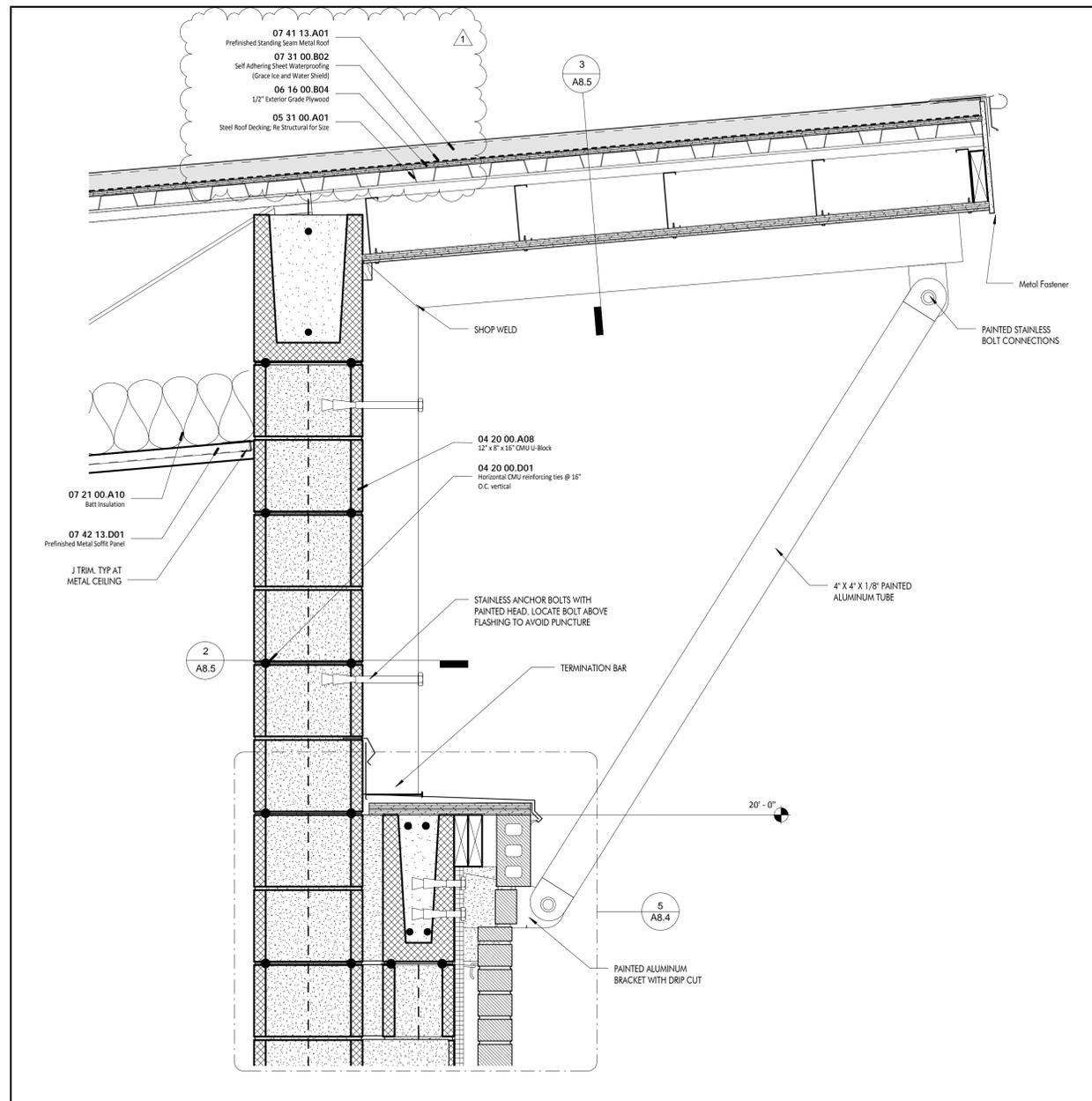
**3 EAST ELEVATION**  
1/4" = 1'-0"

1 Addendum 2

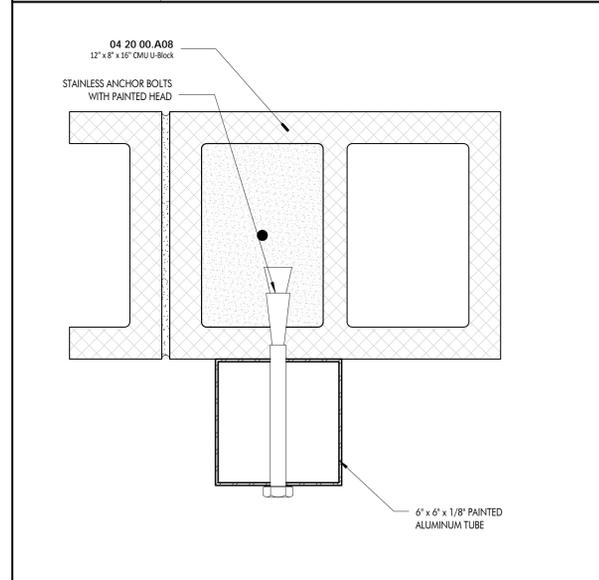
OCTOBER 9, 2015

PROJ. #. C15-0029

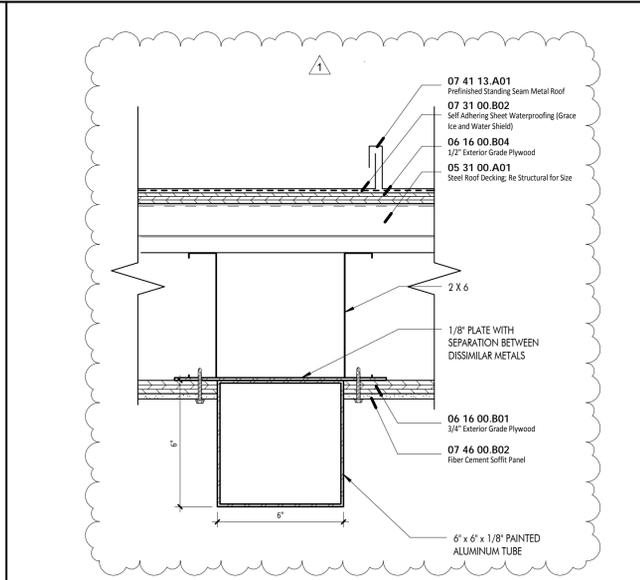




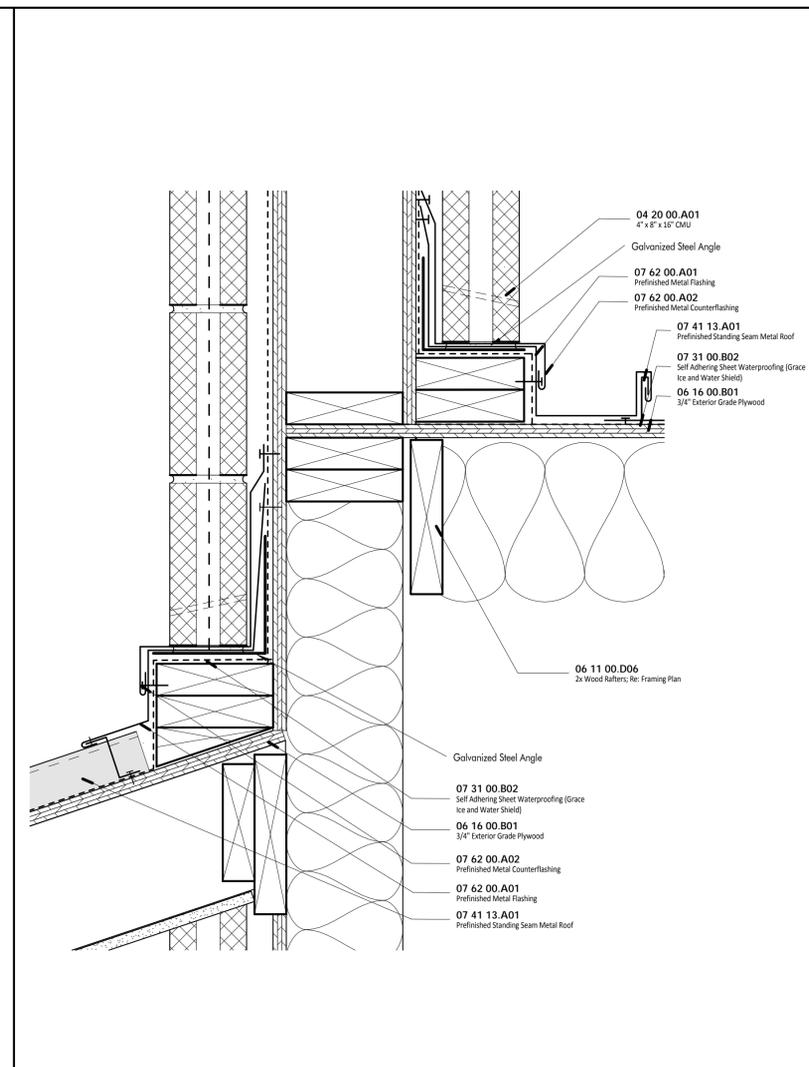
**1** Bracket Detail  
1 1/2" = 1'-0"



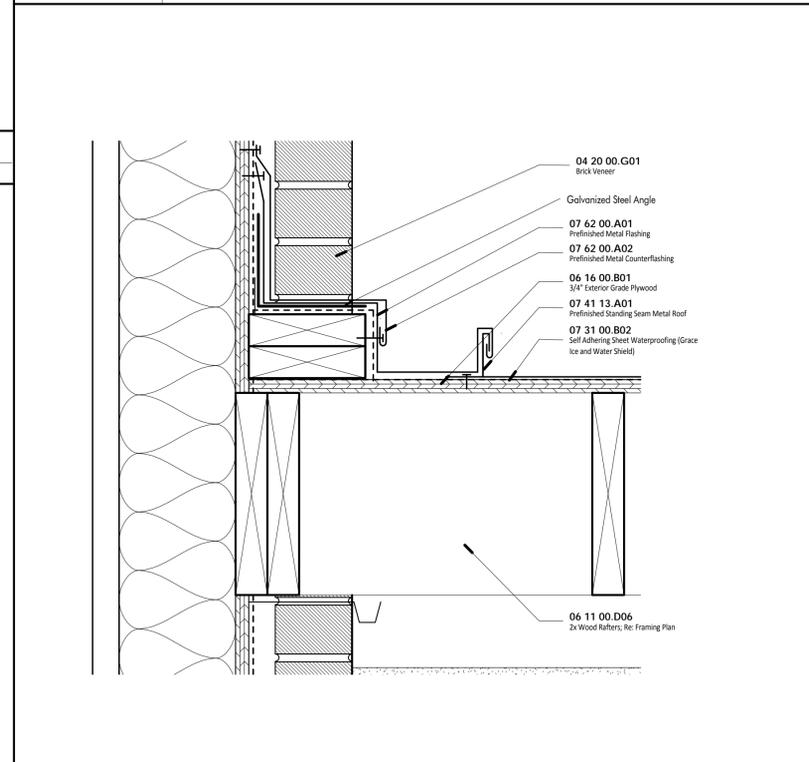
**2** Bracket Detail-To Wall  
3" = 1'-0"



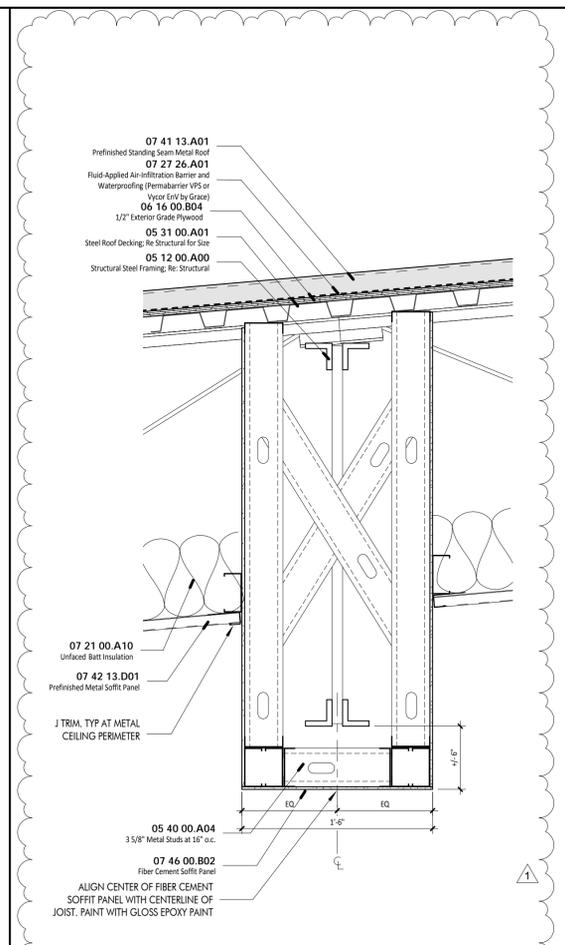
**3** Bracket Detail-To Soffit  
3" = 1'-0"



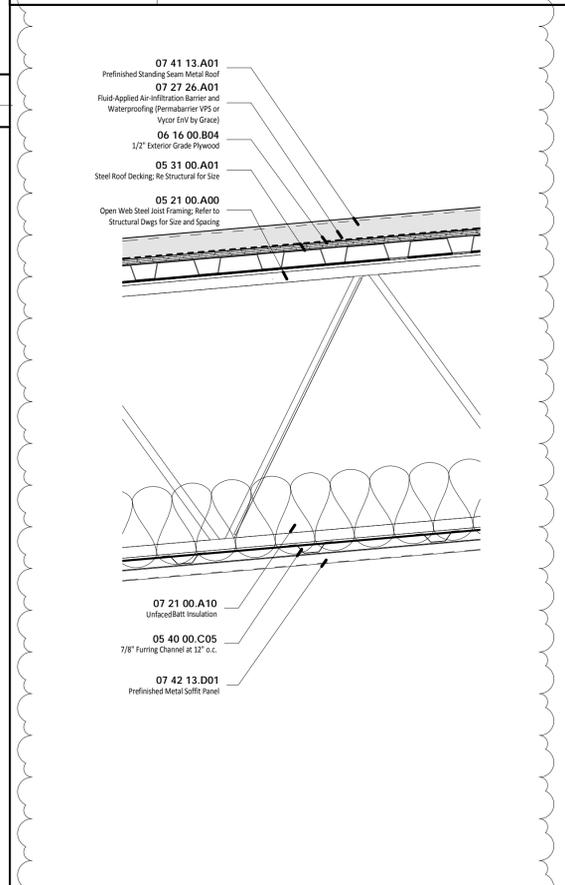
**6** Back Porch Detail-CMU  
3" = 1'-0"



**7** Entry Detail- Wood to Brick  
3" = 1'-0"



**8** Engine Room Girder Detail  
1 1/2" = 1'-0"



**9** Engine Room Joist Detail  
1 1/2" = 1'-0"



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225.490.9592

structural engineer:  
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other:

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**A8.5**



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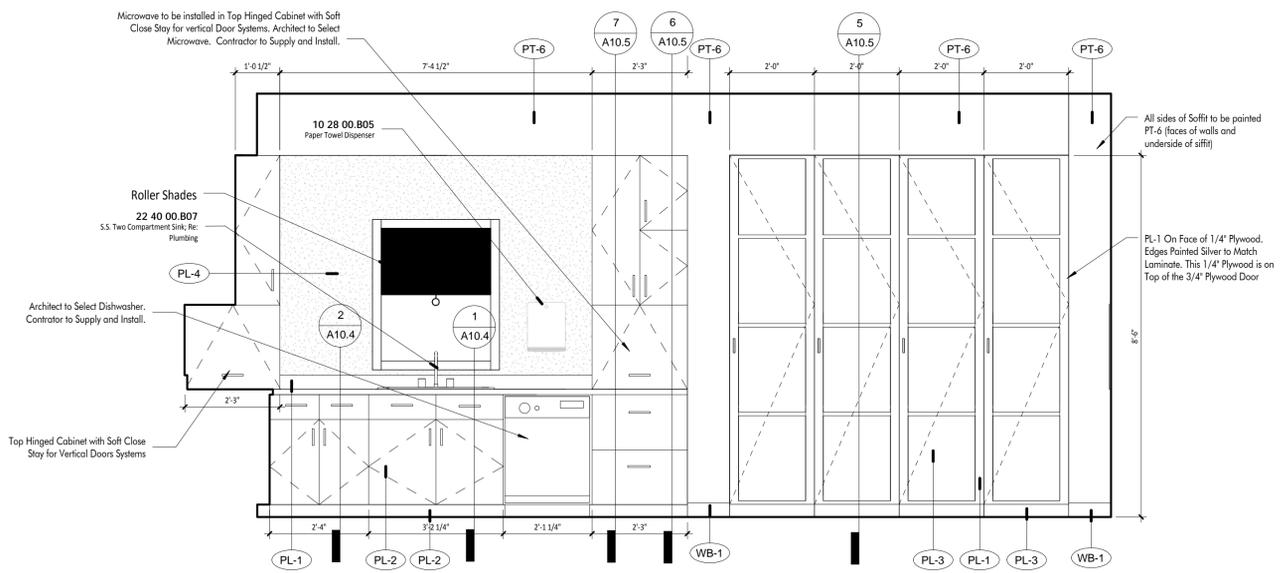
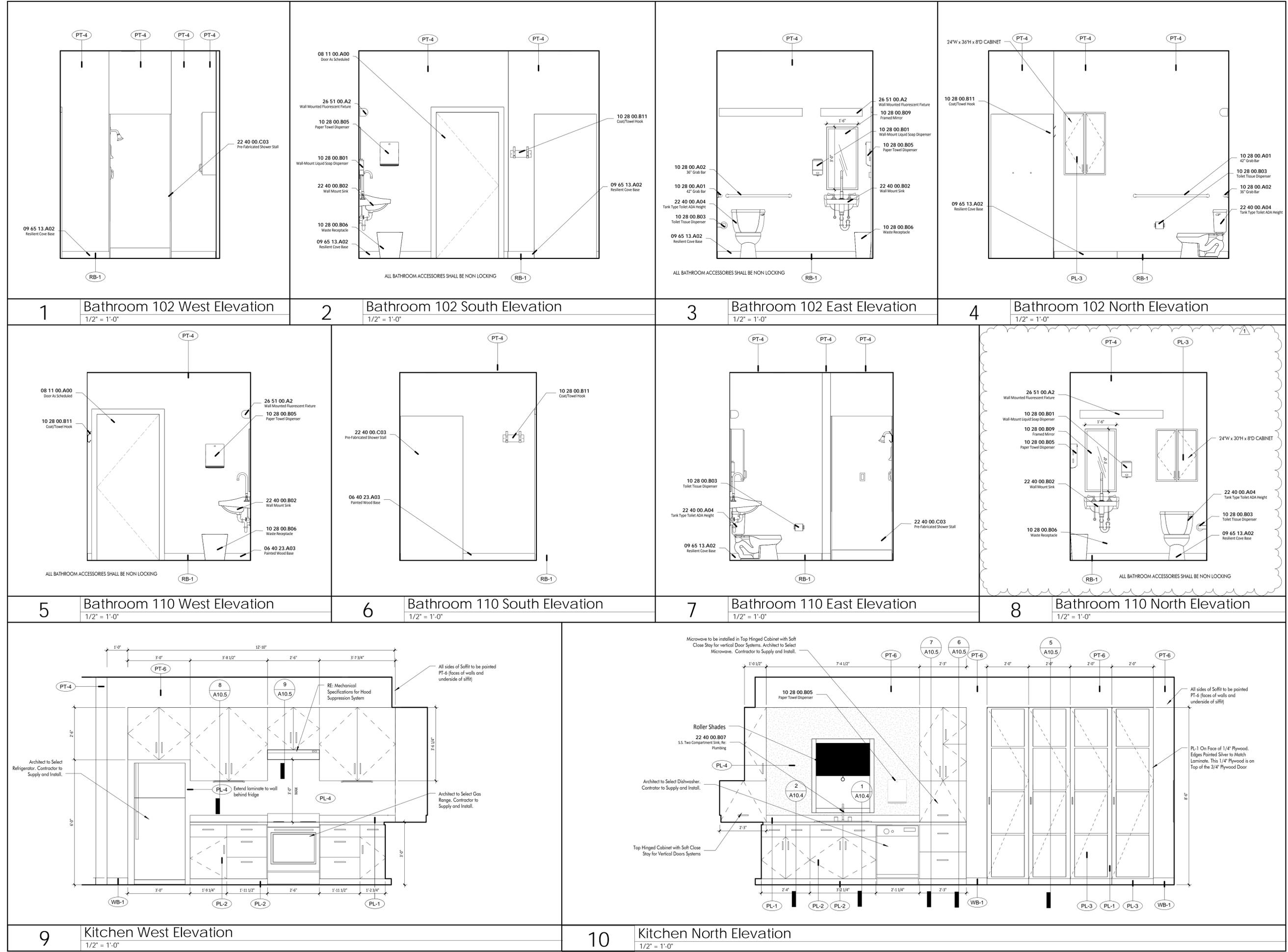
MEP engineer:  
CRUMB ENGINEERING  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006  
504.455.4450  
civil engineer:  
MR ENGINEERING & SURVEYING  
9345 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
225.490.9592  
structural engineer:  
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other:

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1 Addendum 2

OCTOBER 9, 2015











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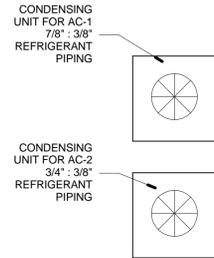
GENERAL NOTES THIS SHEET:

- DUCT SIZES SHOWN ARE FREE AREA SIZES. SEE SPECIFICATIONS FOR DUCT MATERIALS AND INSULATION.
- ALL DUCTWORK SHALL BE EXTERNALLY WRAPPED UNLESS NOTED OTHERWISE. INTERNALLY LINE ALL DUCTWORK FOR FIRST 5' OF SUPPLY AND RETURN FROM UNIT.
- PROVIDE VOLUME DAMPERS AT ALL TAPS INTO MAIN DUCT RUNS.
- NO FLEX DUCT RUN SHALL EXCEED 8 FEET.
- FLEX DUCT RUN OUTS TO DIFFUSERS SHALL BE SIZED SAME AS DIFFUSER NECK SIZE. FASTEN THE INNER HELIX AND OUTER JACKET OF FLEX DUCTS TO DIFFUSERS AND DUCTS WITH NYLON TIE WRAPS.
- PROVIDE FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN CONNECTIONS TO AC UNITS.
- ALL NEW DUCTWORK SHALL BE RUN ABOVE CEILINGS IN ATTIC AND TIGHT TO STRUCTURE. COORDINATE WITH OTHER TRADES AND MAKE OFFSETS WHERE REQUIRED.
- PROVIDE ACCESS TO ALL EQUIPMENT, INCLUDING ACCESS PANELS WHERE REQUIRED.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE WALLS AND PROVIDE FIRE DAMPERS IN ALL RATED WALLS AND FLOORS. PROVIDE FIRE DAMPERS IN ALL OUTSIDE AIR INTAKES.

3 Typical HVAC Notes

SPECIFIC NOTES THIS SHEET:

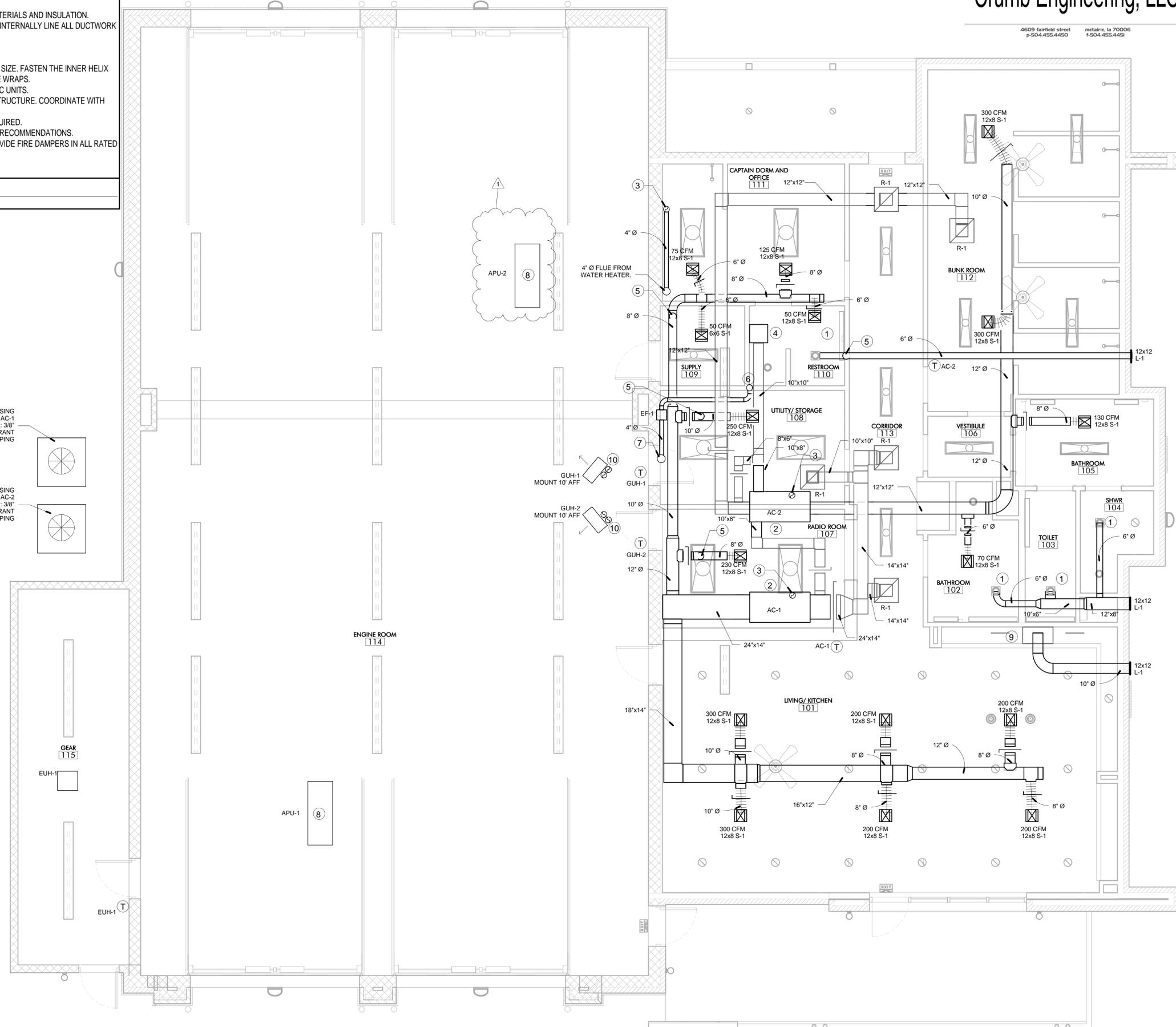
- HEAT-VENT-LIGHT. SEE ELECTRICAL.
- AC UNIT MOUNTED IN ATTIC.
- 4" Ø SS FLUE THRU ROOF TO CAP AND JACK.
- 12" X 12" OUTSIDE AIR INTAKE ON ROOF. PROVIDE 1 1/2 HOUR FIRE DAMPER.
- ELBOW DUCT DOWN AND RUN BETWEEN PLYWOOD DECK AND CEILING.
- 4" Ø DRYER EXHAUST UP.
- 4" Ø DRYER EXHAUST THRU ROOF TO CAP AND JACK.
- AIR PURIFICATION UNIT. HANG FROM STRUCTURE. SEE SPECS FOR CONTROLLERS AND WIRING.
- EXHAUST HOOD. SEE SPECIFICATIONS. TRANSITION DUCT TO UNIT OPENING.
- VERTICAL CONCENTRIC VENT/ INTAKE KIT UP THRU ROOF WITH 3" Ø FLUE AND 3" INTAKE.



2 Notes

1 MECHANICAL PLAN

1/4" = 1'-0"



NEW CONSTRUCTION OF  
ASCENSION PARISH FIRE DISTRICT 3  
STATION #34  
BLUFF ROAD PRAIRIEVILLE, LA

map engineer:  
CRUMB ENGINEERING  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006  
504.455.4450

civil engineer:  
MR ENGINEERING & SURVEYING  
9345 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
225.490.9592

structural engineer:  
FORTE AND TABLADA  
9107 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
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other:

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M1.1



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MARK	FIXTURE	WASTE	HW	CW	DESCRIPTION
P1	TOILET	4"	--	1/2"	ADA TOILET - ELONGATED BOWL - OPEN FRONT SEAT ZURN Z5560
P2	URINAL	1 1/2"	--	1/2"	KOHLER WALL HUNG ADA URINAL K-4960-ET BARDON SUPERIOR 0.5-1 GPF WITH FLUSHOMETER
P3	LAV	1 1/2"	1/2"	1/2"	KOHLER ADA WALL-MOUNT LAVATORY WITH SINGLE HOLE K-2035 PINOIR
P3-A	FAUCET				DELTA 501LF-HDF
P4	LAV	1 1/2"	1/2"	1/2"	KOHLER SELF RIMMING CERAMIC LAVATORY WITH 8" CENTERS KOHLER K-2196-B
P4-A	FAUCET				DELTA B3596LF
P5	SHOWER	2"	1/2"	1/2"	36 X 36 PREFABRICATED SHOWER STALL WITH FAUCET-OPEN TOP AQUAGLASS 613638BC
P5-A	SHOWER SYSTEM				KOHLER CORALAIS K-115601
P6	WATER FOUNTAIN	1 1/2"	--	1/2"	ADA ELECTRIC WATER COOLER WALL MOUNT-TWO STATION ELKAY WATER COOLER MODEL EZSLBC
P7	SERVICE SINK	3"	1/2"	1/2"	DROP IN LAUNDRY TUB SWAN SSUS SWANSTONE LARGE UTILITY SINK 25" X 22"
P7-A	FAUCET				DELTA 100LF-HDF
P8	KITCHEN SINK	1 1/2"	1/2"	1/2"	DOUBLE BASIN STAINLESS STEEL SINK ELKAY LUSTERTONE DLR331910
P8-A	FAUCET				DELTA 21988LF
FD	FLOOR DRAIN	3"	--	--	FLOOR DRAIN WITH GRATE AND TRAP PRIMER
WM	WASHING MACHINE	2"	1/2"	1/2"	METAL BOX WITH DRAIN, HOT WATER AND COLD WATER HOSE BIBBS

**1 Plumbing Schedule**

GENERAL NOTES THIS SHEET:

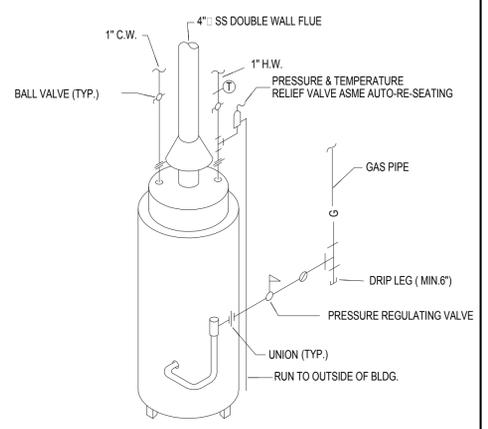
- ALL SEWER PIPING SHALL BE RUN BELOW SLAB UNLESS NOTED OTHERWISE.
- VENT PIPING SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE.
- PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.
- INSULATE HORIZONTAL RUN OF WASTE PIPING RECEIVING A/C CONDENSATE.
- ALL COLD WATER, HOT WATER, AND HOT WATER RE-CIRCULATING PIPING SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE.
- ALL WATER PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PROVIDE AIR CHAMBERS ON ALL DOMESTIC WATER BRANCH PIPING SERVING FIXTURES.
- PROVIDE INSULATION VALVES IN THE HOT AND COLD WATER PIPING TO ALL FIXTURE GROUPS.
- MINIMUM VENT THRU ROOF SHALL BE 2".
- ALL FIXTURES SHALL BE INSTALLED LEVEL AND TRUE. CENTER FIXTURES WHERE APPLICABLE. FOR INSTANCE WATER CLOSETS IN NON-ADA STALLS.
- ALL ADA FIXTURES SHALL BE INSTALLED PER ADA GUIDELINES.
- PLUMBING SHALL CONFORM TO THE LOUISIANA STATE PLUMBING CODE.
- SEE P1.2 FOR PLUMBING RISERS.

**2 Plumbing Notes**

SPECIFIC NOTES THIS SHEET:

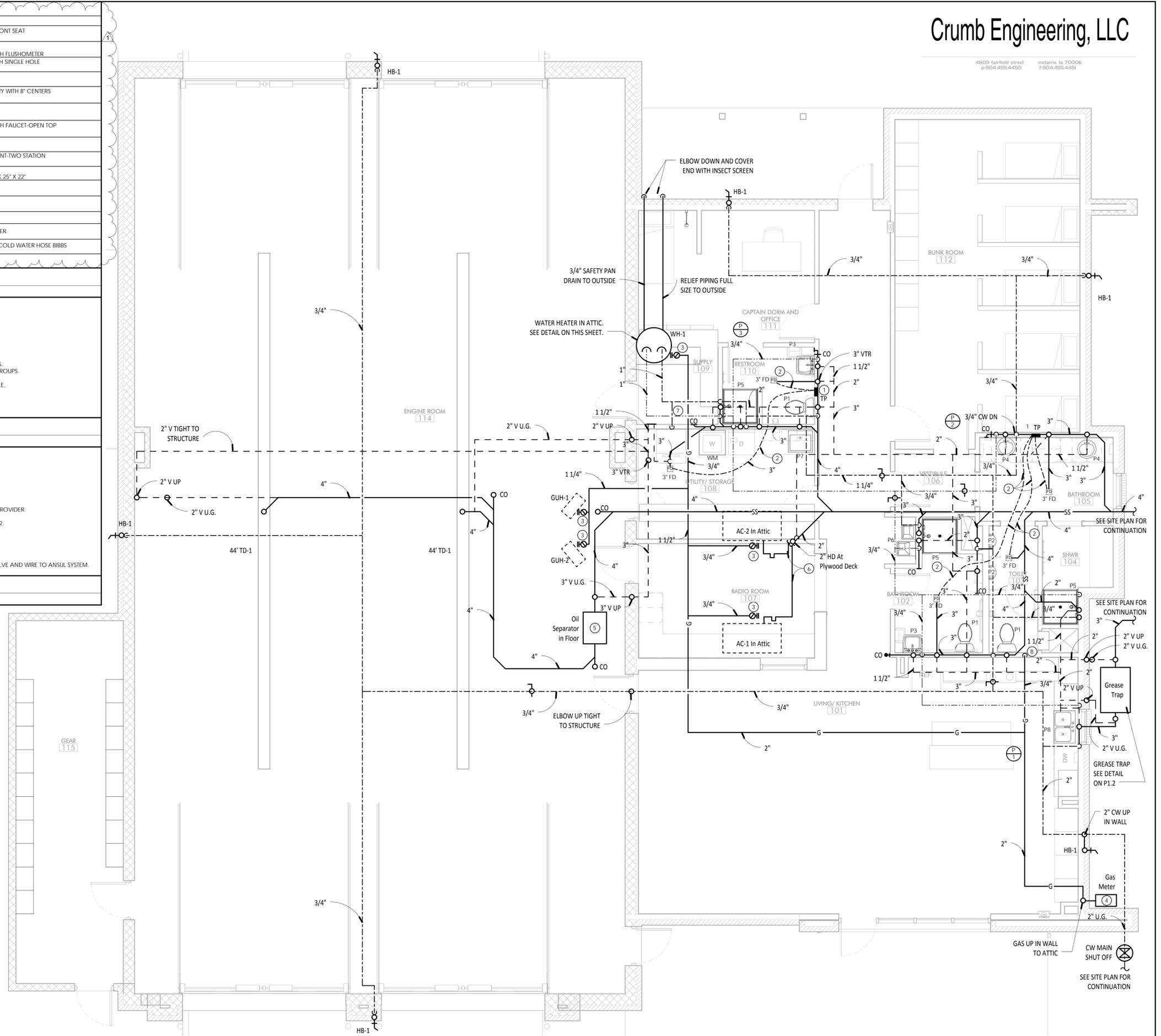
- TRAP PRIMER IN WALL WITH ACCESS PANEL. SEE DETAIL ON P1.2.
- 1/2" TRAP PRIMER LINE U.G. TO FLOOR DRAIN.
- 3/4" GAS WITH GAS COCK, UNION, AND DRIPLEG.
- 750 CFH GAS METER WITH 6 OZ DISCHARGE PRESSURE. COORDINATE WITH GAS SERVICE PROVIDER.
- JR SMITH MODEL 8550-H20-F-C, 50 GPM OIL INTERCEPTOR WITH SEDIMENT BUCKET. SEE P1.2.
- 1" CONDENSATE DRAIN WITH RUNNING TRAP TO HUB DRAIN. INSULATE.
- 3/4" CW WITH FILTER TO ICE MACHINE. PROVIDE WALL BOX AND SHUT OFF VALVE.
- 3/4" GAS WITH GAS COCK, UNION, AND DRIPLEG TO STOVE. PROVIDE GAS SOLENOID VALVE AND WIRE TO ANSUL SYSTEM.

**3 P1.1 Notes**



NOTE:  
WATER HEATER SHALL BE 75,000 BTUH INPUT, 75 GALLON STORAGE, 75 GPH RECOVERY AT 90°F RISE, INSULATED TANK MEETING ASHRAE 90.1 REQUIREMENTS WITH 8 YEAR TANK AND PARTS WARRANTY. RHEEM RHG-PRO75F OR EQUAL.

**GAS WATER HEATER DETAIL**  
NO SCALE



**5 PLUMBING PLAN**  
1/4" = 1'-0"

**4 Gas Water Heater Detail**

NEW CONSTRUCTION OF  
**ASCENSION PARISH FIRE DISTRICT 3  
STATION #34**  
BLUFF ROAD PRAIRIEVILLE, LA

map engineer:  
CRUMB ENGINEERING  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006  
504.455.4450  
civil engineer:  
MR ENGINEERING & SURVEYING  
9345 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
225.490.9592  
structural engineer:  
FORTE AND TABLADA  
9107 INTERLINE AVENUE  
BATON ROUGE, LA 70809  
225.927.9321  
other:

No.	Description	Date
1	Addendum 2	1/6/16

PROJ. #: C15-0029  
date  
**OCTOBER 9, 2015**  
sheet

## **SECTION 074213 - METAL CEILING PANELS**

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Metal soffit panels.

#### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication and installation layouts of metal wall panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details. Distinguish between factory-, shop- and field-assembled work.
- C. Samples: For each type of exposed finish required.
- D. Coordination Drawings: Ceiling Plan drawn to scale and coordinating penetrations and wall-mounted items.
- E. Product test reports.
- F. Maintenance data.
- G. Warranties: Samples of special warranties.

#### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Preinstallation Conference: Conduct conference at Project site

#### 1.4 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal wall panel assemblies that fail in materials or workmanship within specified warranty period.
  - 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal wall panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Finish Warranty Period: 20 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 PANEL MATERIALS

- A. Metallic-Coated Steel Sheet: Restricted flatness steel sheet metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
  - 1. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A 792/A 792M, Class AZ50 coating designation, Grade 40 (Class AZM150 coating designation, Grade 275); structural quality.
  - 2. Surface: Embossed finish.
  - 3. Exposed Coil-Coated Finish:
    - a. 2-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.
  - 4. Concealed Finish: Manufacturer's standard white or light-colored acrylic or polyester backer finish.
- B. Panel Sealants:
  - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
  - 2. Joint Sealant: ASTM C 920 as recommended in writing by metal wall panel manufacturer.
  - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.

### 2.2 MISCELLANEOUS METAL FRAMING

- A. Miscellaneous Metal Framing, General: ASTM C 645, cold-formed metallic-coated steel sheet, ASTM A 653/A 653M, G40 (Z120) hot-dip galvanized or coating with equivalent corrosion resistance unless otherwise indicated.
- B. Subgirts: Manufacturer's standard C- or Z-shaped sections, 0.064-inch (1.63-mm) nominal thickness.
- C. Zee Clips: 0.079-inch (2.01-mm) nominal thickness.
- D. Base or Sill Channels: 0.079-inch (2.01-mm) nominal thickness.
- E. Hat-Shaped, Rigid Furring Channels:
  - 1. Nominal Thickness: As required to meet performance requirements
  - 2. Depth: As indicated
- F. Cold-Rolled Furring Channels: Minimum 1/2-inch- (13-mm-) wide flange.
  - 1. Nominal Thickness: As required to meet performance requirements
  - 2. Depth: 3/4 inch (19 mm)
  - 3. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with 0.040-inch (1.02-mm) nominal thickness.
  - 4. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch- (1.57-mm-) diameter wire, or double strand of 0.048-inch- (1.22-mm-) diameter wire.

## 2.3 MISCELLANEOUS MATERIALS

- A. Panel Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide exposed fasteners with heads matching color of metal wall panels by means of plastic caps or factory-applied coating. Provide EPDM, PVC, or neoprene sealing washers.
- 1.

## 2.4 METAL SOFFIT PANELS

- A. Provide factory-formed metal soffit panels designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.
- B. Metal Soffit Panels:
1. Finish: As selected from manufacturer's standard range of colors
  2. Basis-of-Design Product: Subject to compliance with requirements, provide McElroy Metals; Marquee-Lok Soffit Panel or comparable product by one of the following:
    - a. Architectural Building Components.
    - b. Berridge Manufacturing Company.
    - c. CENTRIA Architectural Systems.
    - d. Englert, Inc.
    - e. MBCI; Div. of NCI Building Systems.
    - f. Merchant & Evans Inc.
  3. Profile: Double Pencil Rib.
  4. Material: Aluminum-zinc alloy-coated steel sheet, 22 Gauge nominal thickness.
    - a. Exterior Finish: 2-coat fluoropolymer
    - b. Color: As selected by Architect from manufacturer's standard range.
  5. Panel Coverage: 12".
  6. Panel Height: 1".

## 2.5 ACCESSORIES

- A. Accessories: Provide components required for a complete metal wall panel assembly including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal wall panels, unless otherwise indicated.
1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal wall panels.
  2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
  3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal wall panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

- B. Flashing and Trim: Formed from 0.018-inch (0.46-mm) minimum thickness, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating. Provide flashing and trim as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal wall panels.

## 2.6 FABRICATION

- A. General: Fabricate and finish metal wall panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Fabricate metal wall panels in a manner that eliminates condensation on interior side of panel and with joints between panels designed to form weathertight seals.
- C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- D. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimensions, metal, and other characteristics of item indicated.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Miscellaneous Framing: Install subgirts, base angles, sills, furring, and other miscellaneous wall panel support members and anchorages according to ASTM C 754 and metal wall panel manufacturer's written recommendations.

### 3.2 METAL WALL PANEL INSTALLATION

- A. Metal Soffit Panels: Provide metal soffit panels full width of soffits. Install panels perpendicular to support framing.
  - 1. Flash and seal panels with weather closures where metal soffit panels meet walls and at perimeter of all openings.

### 3.3 ACCESSORY INSTALLATION

- A. General: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
  - 1. Install components required for a complete metal wall panel assembly including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.

- B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

#### 3.4 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal wall panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal wall panel installation, clean finished surfaces as recommended by metal wall panel manufacturer. Maintain in a clean condition during construction.
- B. After metal wall panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

END OF SECTION 074213

## **SECTION 08 36 13 - SECTIONAL OVERHEAD DOORS**

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Glazed Aluminum Sectional Overhead Doors
- B. Electric Operators and Controls.
- C. Operating Hardware, tracks, and support.

#### 1.2 REFERENCES

- A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.
- B. ASTM A 123 – Zinc hot-dipped galvanized coatings on iron and steel products.
- C. ASTM A 216 - Specifications for sectional overhead type doors.
- D. ASTM A 229 - Steel wire, oil-tempered for mechanical springs.
- E. ASTM A 653 - Steel sheet, zinc-coated galvanized by the hot-dipped process, commercial quality.
- F. ASTM D 1929 - Ignition temperature test to determine flash and ignition temperature of foamed plastics.
- G. ASTM E 84 - Tunnel test for flame spread and smoke developed index.
- H. ASTM E 330 - Structural performance of exterior windows, curtain walls, and doors by uniform static air pressure difference.
- I. ASTM E 413 - Classification for Rating Sound Insulation
- J. ASTM E 1332 - Standard Classification for Rating Outdoor-Indoor Sound Attenuation.
- K. ASTM E 283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

#### 1.3 DESIGN / PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads caused by pressure and suction of wind acting normal to plane of wall as calculated in accordance with applicable code.
  - 1. Design pressure of 33 lb/sq ft (1.58kPa). Verify with Structural Chart on S.01 and with AHJ.
- B. Wiring Connections: Requirements for electrical characteristics.

1. 230 volts, three phase, 60 Hz.
- C. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

#### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Operation and Maintenance Data.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
- B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened labeled packaging until ready for installation.
- B. Protect materials from exposure to moisture until ready for installation.
- C. Store materials in a dry, ventilated weathertight location.

#### 1.7 PROJECT CONDITIONS

- A. Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Basis-of Design: Wayne Dalton; 2501 S. State Highway 121 Business, Suite 200, Lewisville, TX 75067. ASD. Phone: (800) 827-3667
- B. Additional Approved Manufacturers, provided they meet the Basis-of-Design Specification:
  - 1. Overhead Door; 2501
  - 2. Arm-R-Lite
  - 3. Clopay Building Products;
  - 4. Raynor
  - 5. General American Door Company

## 2.2 GLAZED ALUMINUM SECTIONAL OVERHEAD DOORS

- A. Glazed Sectional Overhead Doors: Wayne Dalton 451 Series Aluminum Doors. Units shall have the following characteristics:
  - 1. Door Assembly: Stile and rail assembly of aluminum alloy 6063-T6, 1-3/8 inch thick stiles and rails, joined with self tapping screws.
    - a. Rails: Top and bottom rails with 3-1/2 inches wide, lower intermediate rail 1-3/8 inches, upper rail 1-5/8 inches, minimum wall thickness 0.062 inch.
    - b. Springs:
      - 1) Standard cycle spring: 10,000 cycles minimum.
    - c. Glazing:
      - 1) 1/4 inch (6 mm) Acrylic (Plexiglass) glazing.
  - 2. Finish and Color:
    - a. Anodized Finish: Clear anodized (at openings)
    - b. Powder Coating Finish: White
  - 3. Windload Design: Provide to meet the Design/Performance requirements specified.
  - 4. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
  - 5. Lock:
    - a. Interior mounted slide lock.
  - 6. Weatherstripping:
    - a. Flexible bulb-type strip at bottom section.
    - b. Flexible Jamb seals.
    - c. Flexible Header seal.
  - 7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
    - a. Size:
      - 1) 2 inch (51 mm).
    - b. Type:
      - 1) Standard lift.
      - 2) Follow roof slope. (Of back pitch)
    - c. Horizontal track shall be reinforced with continuous angle of adequate length and gauge to minimize deflection.
  - 8. Electric Motor Operation: Provide UL listed electric operator, equal to Genie Commercial Operators, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
    - a. Medium Duty
      - 1) Model MT – trolley (w/solenoid brake)

- b. Entrapment Protection: Required for momentary contact, includes radio control operation.
  - 1) Photoelectric sensors monitored to meet UL 325/2010. (Impact protected commercial kit)
- c. Operator Controls:
  - 1) Push-button operated control stations with open, close, and stop buttons. (multiple (2) stations per door – refer to plans for final locations)
  - 2) Surface mounting.
  - 3) Exterior location. (Refer to drawings for final locations)
- d. Emergency Manual Operation
  - 1) Equip each electrically powered door with capability for emergency manual operation. Design manual mechanism so required force for door operation does not exceed 25 lbf

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Do not begin installation until openings have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- C. Verify electric power is available and of correct characteristics.
- D. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### 3.3 INSTALLATION

- A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Anchor assembly to wall construction and building framing without distortion or stress.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- E. Fit and align door assembly including hardware.
- F. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

- G. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

#### 3.4 ADJUSTING

- A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

#### 3.5 CLEANING

- A. Clean doors, frames and glass using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

#### 3.6 PROTECTION

- A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- B. Protect installed products until completion of project.

**END OF SECTION 08 36 13**

## **SECTION 31 31 16 - TERMITE CONTROL**

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes soil treatment for termite control under building slabs and foundations.

#### 1.2 DEFINITIONS

- A. EPA: Environmental Protection Agency.
- B. PCO: Pest control operator.

#### 1.3 SUBMITTALS

- A. Product Data: Treatments and application instructions, including EPA-Registered Label.
- B. Product Certificates: Signed by manufacturers of termite control products certifying that treatments furnished comply with requirements.
- C. Warranties: Submit sample copy of warranty specified in this Section.

#### 1.4 QUALITY ASSURANCE

- A. Applicator Qualifications: A PCO who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment in jurisdiction where Project is located and who is experienced and has completed termite control treatment similar to that indicated for this Project and whose work has a record of successful in-service performance.
- B. Regulatory Requirements: Formulate and apply termiticides, and label with a Federal registration number, to comply with EPA regulations and authorities having jurisdiction.

#### 1.5 PROJECT CONDITIONS

- A. Environmental Limitations: To ensure penetration, do not treat soil that is water saturated or frozen. Do not treat soil while precipitation is occurring. Comply with EPA-Registered Label requirements and requirements of authorities having jurisdiction.

#### 1.6 COORDINATION

- A. Coordinate soil treatment application with excavating, filling, and grading and concreting operations. Treat soil under footings, grade beams, and ground-supported slabs, before construction.

#### 1.7 WARRANTY

- A. Warranty: Furnish written warranty, executed by Applicator and Contractor on Certificate Form issued by the State of Louisiana, certifying that applied soil termiticide treatment will prevent infestation of subterranean termites. If subterranean termite activity is discovered during warranty period, Contractor will re-treat soil and repair or replace damage caused by termite infestation.

1. Renewable Option: At the end of the guaranty period, offer the Owner a renewable guaranty on a year-to-year basis, at the Owner's option, at an agreed upon annual fee.

## PART 2 - PRODUCTS

### 2.1 SOIL TREATMENT

- A. Termiticide: Under regulation of the Louisiana Department of Agriculture and Forestry, the following termiticides are permitted for application by a certified and licensed termiticide applicator:
  1. Dagnet EPA # 279-3062.
  2. T'N'T Termite and Turf EPA #654-13.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for moisture content of the soil, interfaces with earthwork, slab and foundation work, landscaping, and other conditions affecting performance of termite control. Proceed with application only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's written instructions for preparing substrate. Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil and around foundations.
- B. Soil Treatment Preparation: Remove foreign matter and impermeable soil materials that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated, except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended by termiticide manufacturer.
- C. Fit filling hose connected to water source at the site with a backflow preventer, complying with requirements of authorities having jurisdiction.

### 3.3 APPLICATION, GENERAL

- A. Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's EPA-Registered Label for products.
- B. Storage, mixing, and application of the product shall be in strict accordance with all product labeling and all local, state and federal regulations.

### 3.4 APPLYING SOIL TREATMENT

- A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a

continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute the treatment evenly.

1. Slabs-on-Grade: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.
  2. Foundations: Adjacent soil including soil along entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating slab, and around interior column footers, piers, and chimney bases; and along entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
- B. Application Rates: Apply soil treatment solution as follows, unless more stringent requirements are required by termiticide manufacturer.
1. Under slab-on-grade structures, treat soil before concrete slabs are placed, using the following application rates:
    - a. Apply 4 gallons of chemical solution per 10 linear feet to soil in critical areas under slab, including entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating slab, and around interior column footers.
    - b. Apply 1 gallon of chemical solution per 10 sq. ft. as an overall treatment under slab and attached slab areas where fill is soil or unwashed gravel. Apply 1-1/2 gallons of chemical solution per 10 sq. ft. to areas where fill is washed gravel or other coarse absorbent material.
    - c. Apply 4 gallons of chemical solution per 10 linear feet of trench for each foot of depth from grade to footing, along outside edge of building. Dig a trench 6 to 8 inches wide along outside of foundation to a depth of not less than 12 inches. Punch holes to top of footing at not more than 12 inches o.c. and apply chemical solution. Mix chemical solution with the soil as it is being replaced in the trench.
- C. Provide trench and rodding around building perimeter. Make trenches 6-inches wide x 6-inches deep, and rods 12-inches on centers. Apply at rate of 4 gal. per linear foot of trench and per linear foot depth of holes, unless noted otherwise by manufacturer..
- D. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
- E. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.
- F. Post warning signs in areas of application.
- G. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

### 3.5 POST TREATMENT

- A. One year after substantial completion of the project, applicator shall return to the project site to re-treat the project.

END OF SECTION 31 31 16