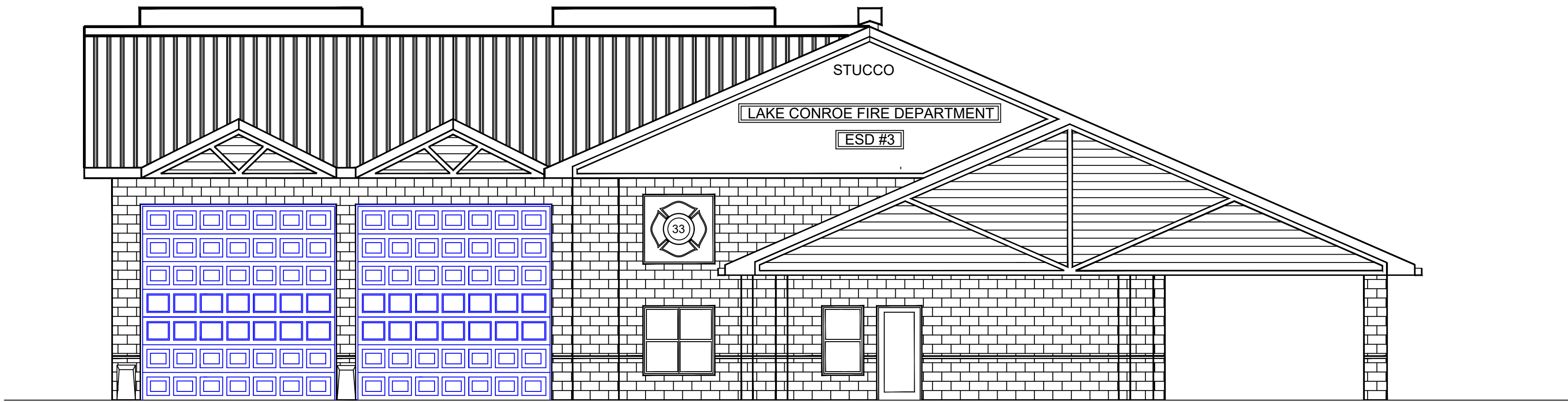


LAKE CONROE FIRE DEPARTMENT STATION # 33



FRONT ELEVATION

SHEET INDEX

- 21. Floor Plan
- 22. Door/Window Schedules
- 23. Ceiling Grid Layout
- 24. Division 15; Plumbing Specs
- 25. Electrical Plan- E1
- 26. Electrical Details/Specs- E2
- 27. Electrical Details/Specs - E3
- 28. Mechanical Layout- M1
- 29. Mechanical Details/Specs- M2
- 30. Roof Layout
- 31. Construction Specifications-1
- 32. Construction Specifications-2
- 33. Construction Specifications-3
- 34. Interior Elevations-1
- 35. Interior Elevations-2
- 36. Cabinets/Doors/Hardware Specs
- 37. Building Elevations (1)
- 38. Building Elevations (2)

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lots 3, 4 and Lot 5, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS

4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

AREA OF CONCRETE

UNDER ROOF----- 6620 Sq. Ft.
DRIVE/PARKING--31,927 Sq. Ft.
TOTAL AREA-----38,547 Sq. Ft.

OWNER

MONTGOMERY COUNTY
Emergency Services District #3
15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design Project Engineering Project Management

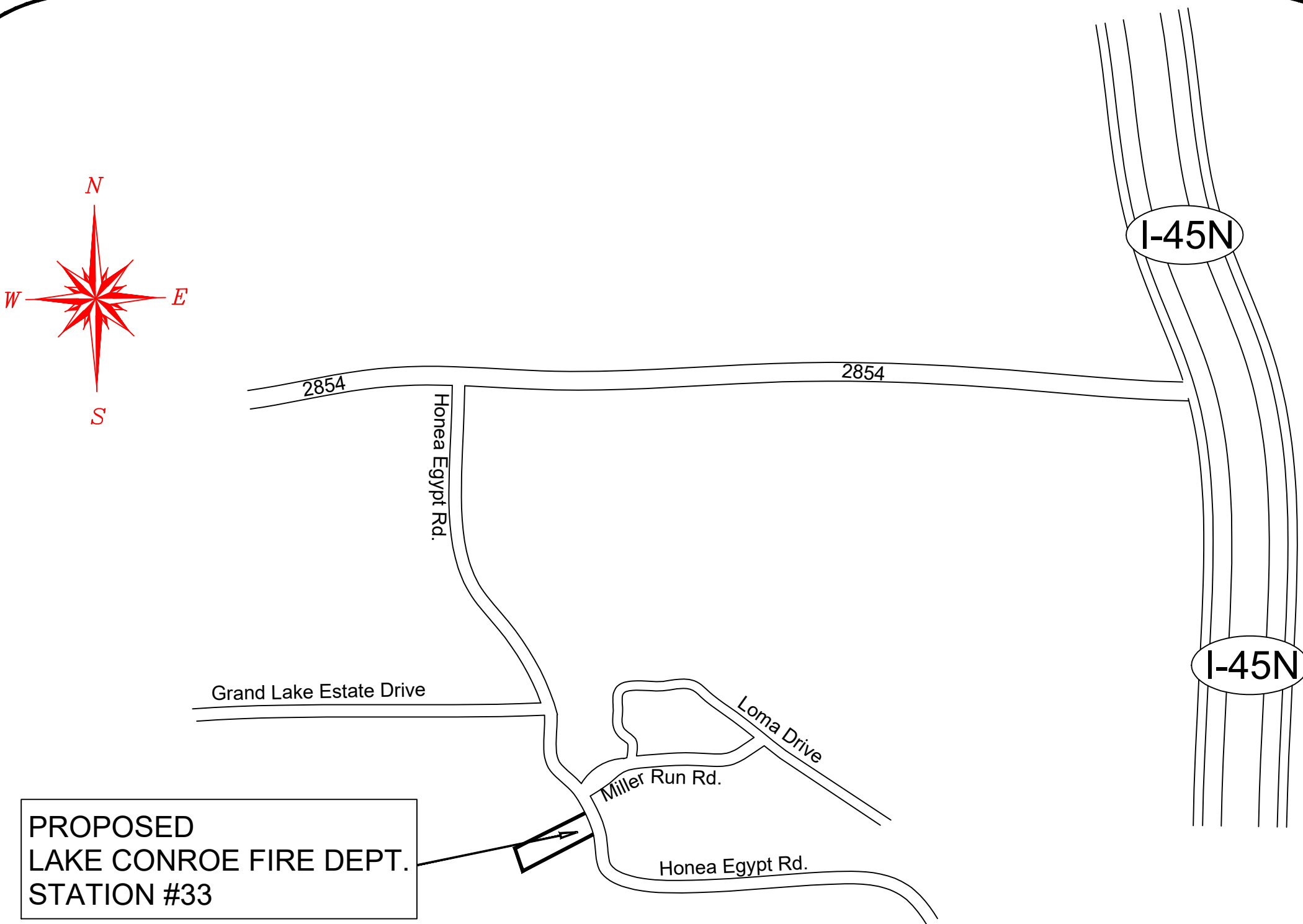
AscenTrust, LLC.
16920 Kuykendahl
SUITE 200
Houston, TX. 77068
PH. 936-827-9944

Plans Drawn by:

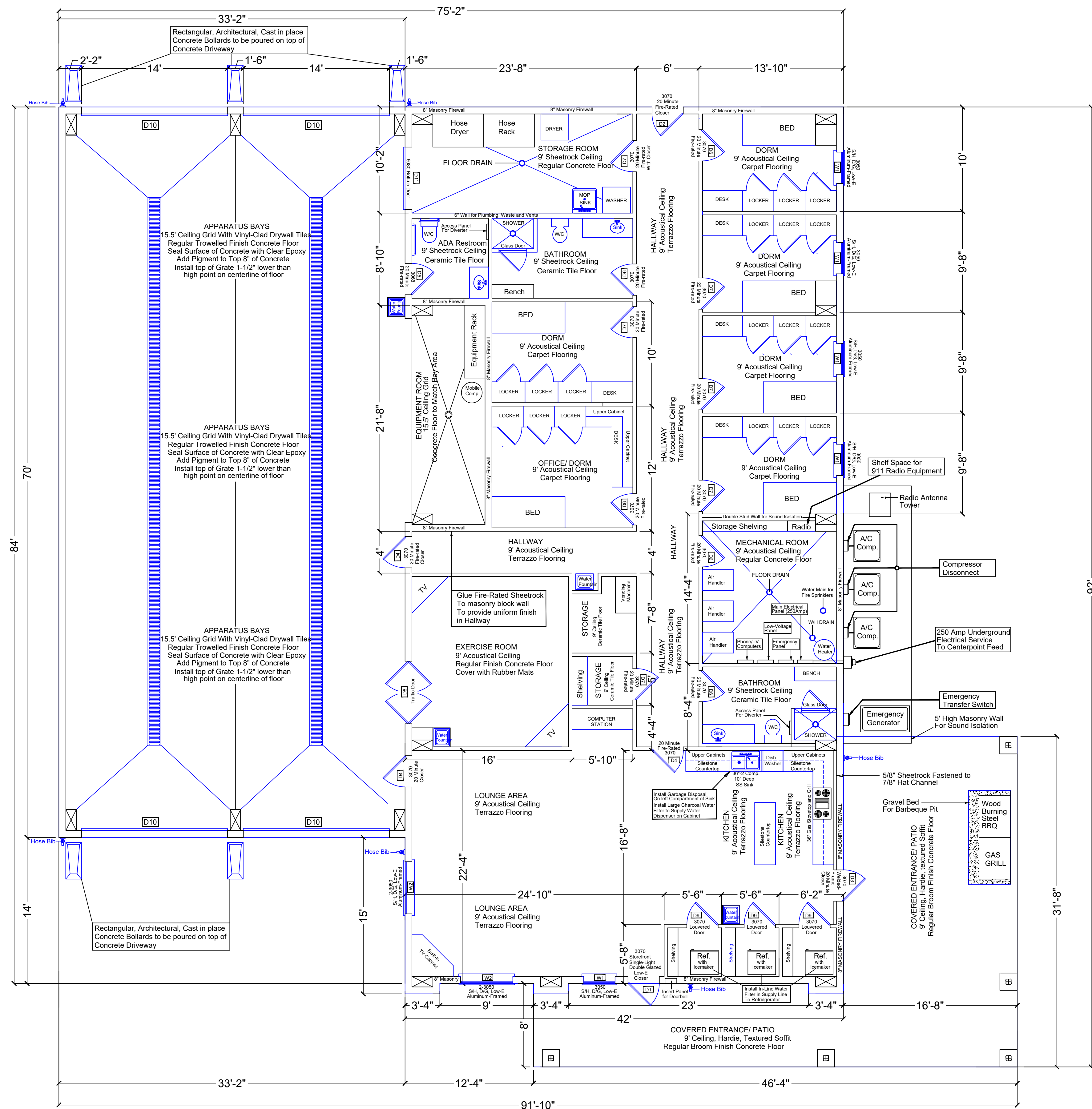
Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-447-1044

Cover Sheet

No Scale



VICINITY MAP



- EQUIPMENT PROVIDED BY OWNER
- Contractor shall provide all necessary electrical and plumbing connections, parts and equipment to install the following pieces of equipment furnished by the Owner.
- A. KITCHEN
 - 1. Dishwasher
 - 2. 3-Refrigerators with Icemakers
 - 3. Gas Stove
 - B. STORAGE ROOM
 - 1. Washer/Dryer (Gas)
 - 2. Hose Dryer (Electric)
 - 3. Hose Rack
 - C. EQUIPMENT ROOM
 - 1. Equipment Rack
 - 2. Mobile Compressor (Electric)
 - D. HALL STORAGE ROOM
 - 1. Vending Machine
 - E. DORMS
 - 1. BEDS
 - F. MECHANICAL ROOM
 - 1. Radio Equipment
 - G. COVERED PATIO
 - 1. Barbeque Grill (Gas)
 - 2. Wood Burning, Metal Barbeque

FIRE SPRINKLER NOTE;

Contractor shall provide a wet fire pipe fire sprinkler system per NFPA 13 and Montgomery County Code. Provide sprinklers throughout living area and Apparatus Bays area.

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

FLOOR PLAN
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 21

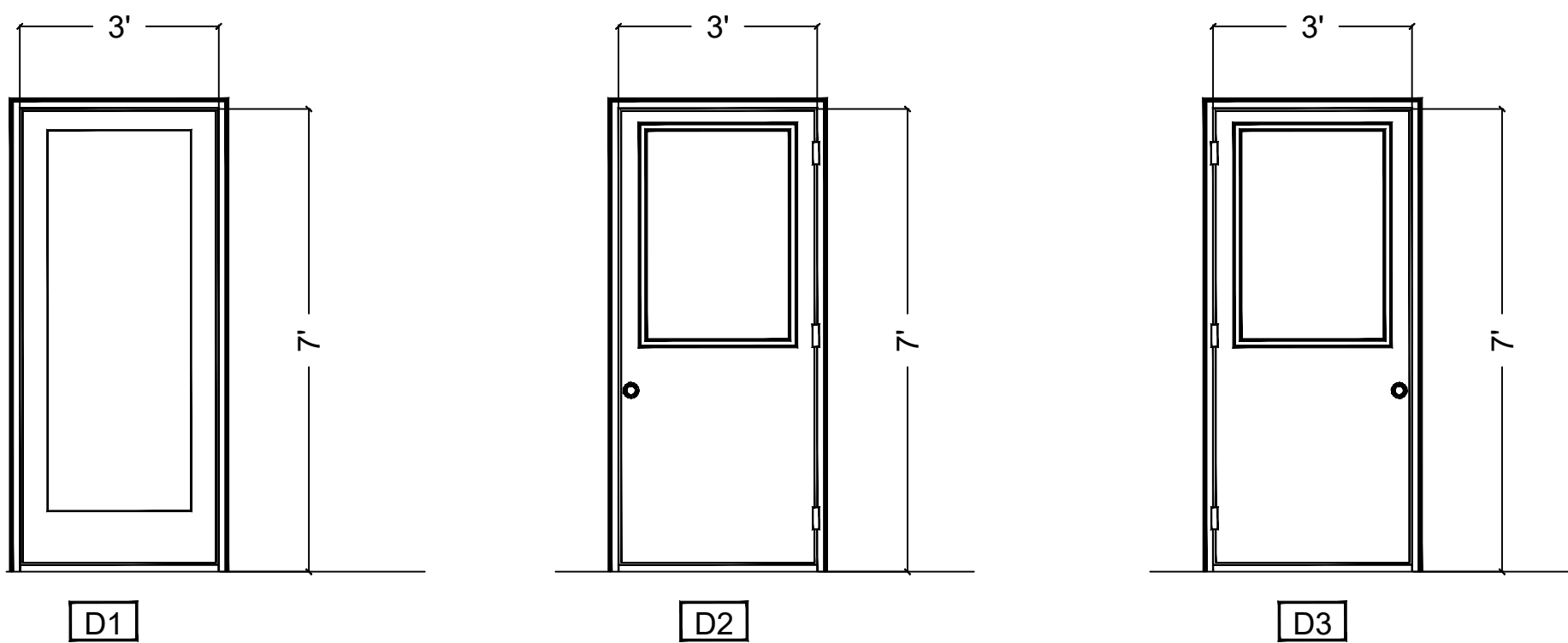
SCALE 3/16" = 1'

DOOR SCHEDULE

NO.	QUANTITY	DOOR SIZE WIDTH HEIGHT	EXPOSURE	WALL TYPE	SWING TYPE	DOOR TYPE	FRAME TYPE	DETAILS
D1	SINGLE	3'-0" X 7'-0"	EXTERIOR	MASONRY	RIGHT HAND	RACO TYPE STOREFRONT	RACO-TYPE STOREFRONT	TEMPERED, FULL LIGHT, DOUBLE GLAZED, LOW-E, INCLUDE CLOSER
D2	SINGLE	3'-0" X 7'-0"	EXTERIOR	MASONRY	LEFT HAND	STEEL INSULATED	WELDED STEEL	TEMPERED, HALF-LIGHT, DOUBLE GLAZED, LOW-E, INCLUDE CLOSER
D3	SINGLE	3'-0" X 7'-0"	EXTERIOR	MASONRY	RIGHT HAND	STEEL INSULATED	WELDED STEEL	TEMPERED, HALF-LIGHT, DOUBLE GLAZED, LOW-E, INCLUDE CLOSER
D4	SINGLE	3'-0" X 7'-0"	INTERIOR	MASONRY	RIGHT HAND	STEEL INSULATED	WELDED STEEL	TEMPERED, HALF-LIGHT, DOUBLE GLAZED, LOW-E, INCLUDE CLOSER
D5	SINGLE	3'-0" X 7'-0"	INTERIOR	MASONRY	RIGHT HAND	STEEL INSULATED	WELDED STEEL	SOLID DOOR- NO GLAZING, INCLUDE CLOSER
D6	SINGLE	3'-0" X 7'-0"	INTERIOR	SHEETROCK	LEFT HAND	LAMINATED-20 MIN.	WELDED STEEL	N/A
D7	SINGLE	3'-0" X 7'-0"	INTERIOR	SHEETROCK	RIGHT HAND	LAMINATED-20 MIN.	WELDED STEEL	N/A
D8	DOUBLE	3'-0" X 7'-0"	INTERIOR	SHEETROCK	BOTH WAYS	STEEL (NON-INSULATED)	WELDED STEEL	NON-RATED STEEL TRAFFIC DOORS
D9	SINGLE	3'-0" X 7'-0"	INTERIOR	SHEETROCK	RIGHT HAND	LAMINATED-20 MIN.	WELDED STEEL	PROVIDE 12" X 24" LOVERED AREA NEAR THE FLOOR FOR REF. VENT

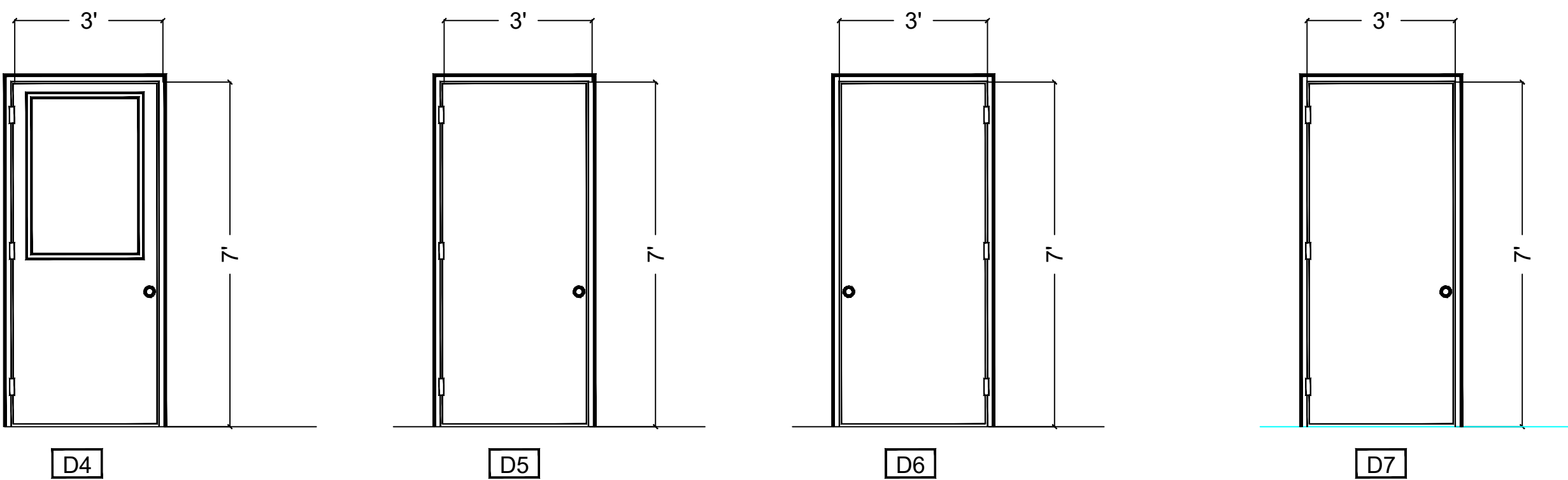
FOR QUOTE ON STEEL-FRAMED FIREDOORS FOR MASONRY OR SHEEROCK CALL
LUNDSFORD DOOR & SERVICES, INC.
4110 BLALOCK, HOUSTON, TX. 77080
Ph. 713-462-4551
OR PROVIDE EQUAL

FOR QUOTE ON ALUMINUM-FRAMED STOREFRONT CALL
GLASS WORLD
13239 HWY. 105 WEST CONROE, TX. 77304
Ph. 936-588-4527
Contact: Scott Strickland
OR PROVIDE EQUAL



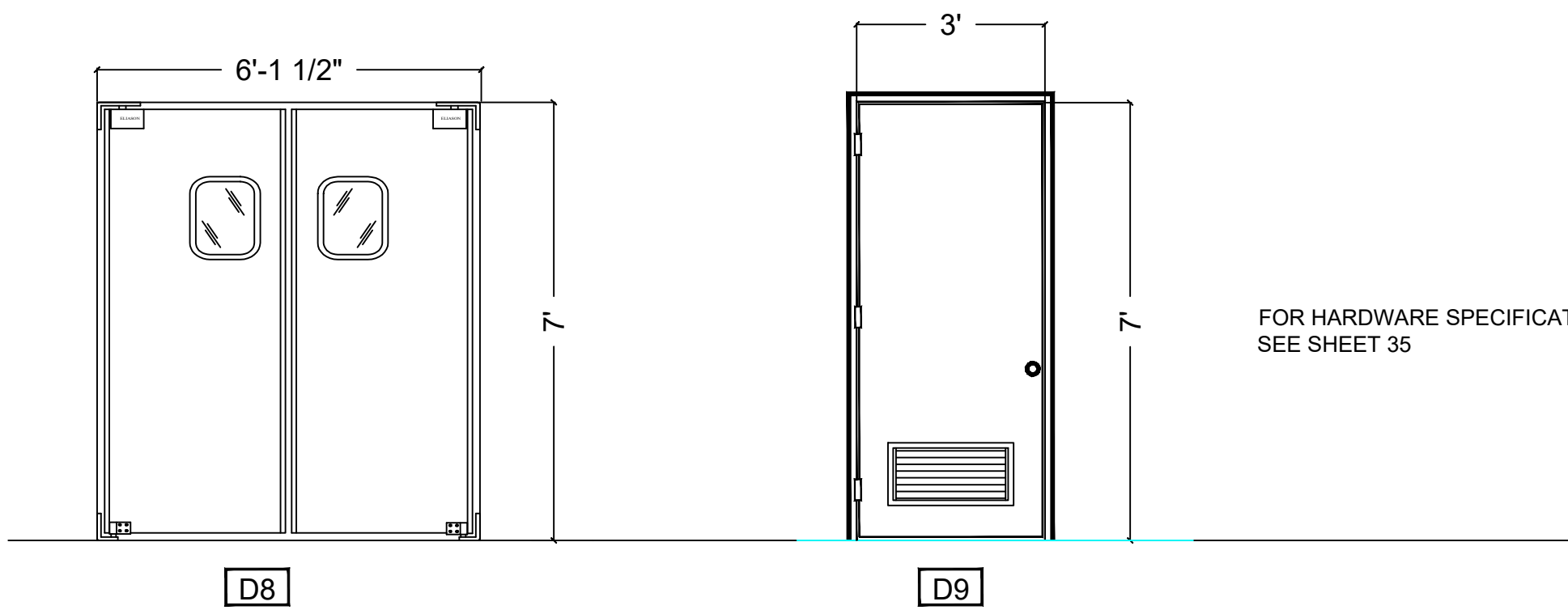
EXTERIOR DOORS

FOR HARDWARE SPECIFICATIONS
SEE SHEET 35



INTERIOR DOORS

FOR HARDWARE SPECIFICATIONS
SEE SHEET 35

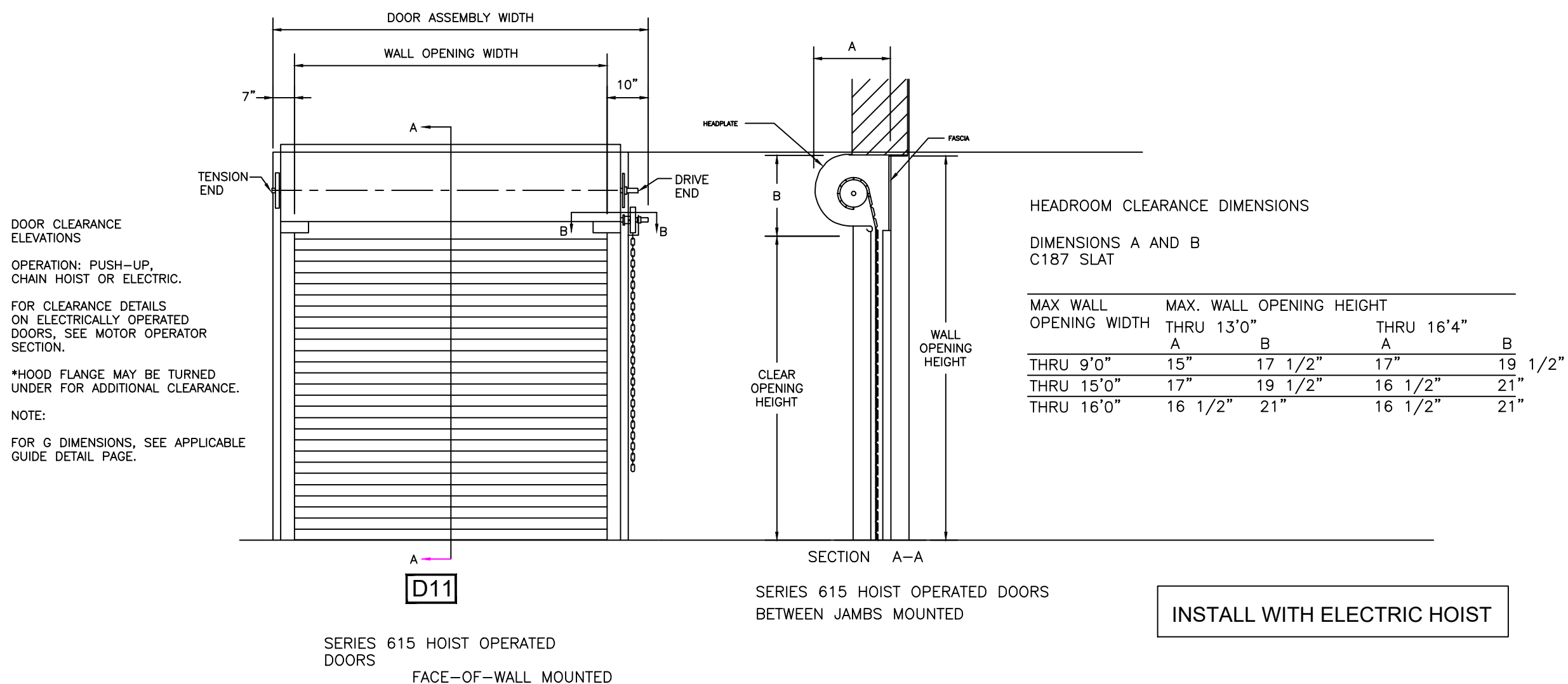
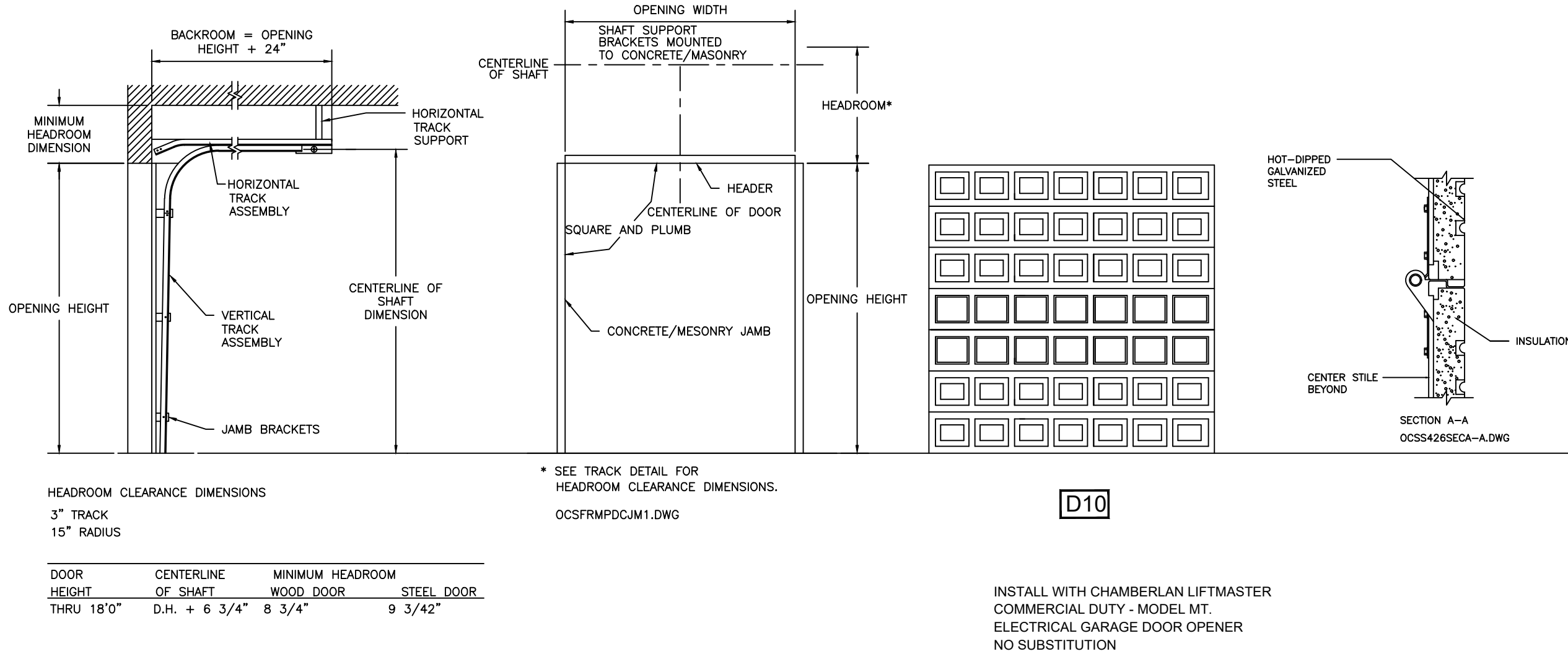


INTERIOR TRAFFIC DOORS

INTERIOR LOUVERED DOOR

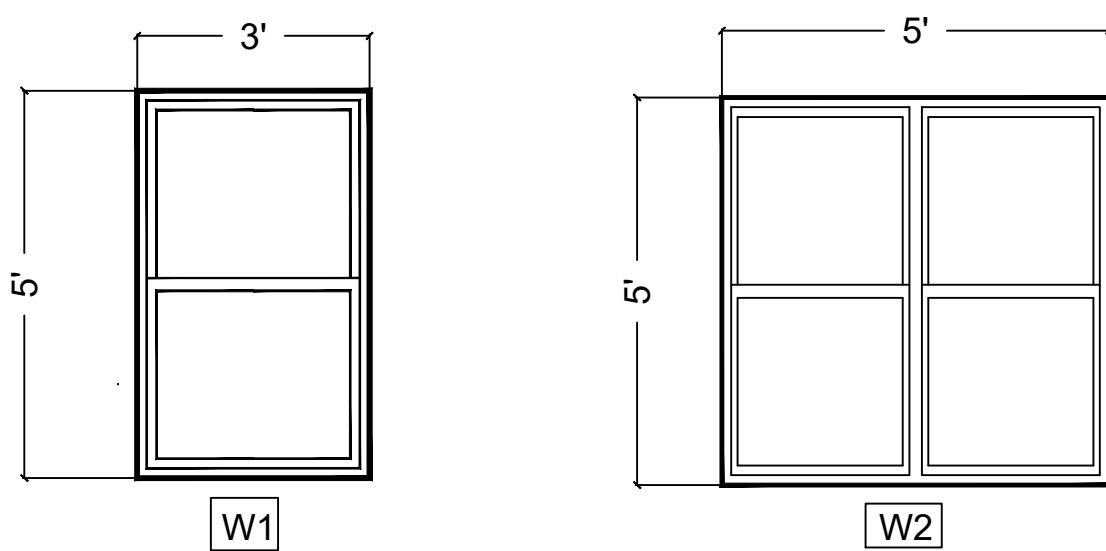
GAARAGE DOOR SCHEDULE

NO.	QUANTITY	DOOR SIZE WIDTH HEIGHT	EXPOSURE	WALL TYPE	SWING TYPE	DOOR TYPE	FRAME TYPE	DETAILS
D10	SINGLE	14'-0" X 14'-0"	EXTERIOR	MASONRY	OVERHEAD	STEEL INSULATED	ROLLER-GUIDED	OVERHEAD DOOR TYPE = 426 SERIES SECTIONAL WITH 3" TRACK WITH LIFTMASTER 1/2 HP. MODEL MT OPENER
D11	SINGLE	6'-0" X 8'-0"	EXTERIOR	MASONRY	ROLL-UP	STEEL	ROLLER-GUIDED	OVERHEAD DOOR TYPE = SERIES 615 ROLL-UP TYPE



WINDOW SCHEDULE

NO.	QUANTITY	WINDOW SIZE WIDTH HEIGHT	TYPE	FRAME TYPE	DETAILS
W1	SINGLE	3'-0" X 5'-0"	SINGLE HUNG	BRONZE ANODIZED ALUMINUM	SINGLE LIGHT, DOUBLE GLAZED, LOW-E
W2	DOUBLE	2'-6" X 5'-0"	SINGLE HUNG	BRONZE ANODIZED ALUMINUM	SINGLE LIGHT, DOUBLE GLAZED, LOW-E FACTORY MULLED



FOR QUOTE ON ALUMINUM-FRAMED WINDOWS CALL
GLASS WORLD
13239 HWY. 105 WEST CONROE, TX. 77304
Ph. 936-588-4527
Contact: Scott Strickland
OR PROVIDE EQUAL

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in, Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Doors and Windows
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

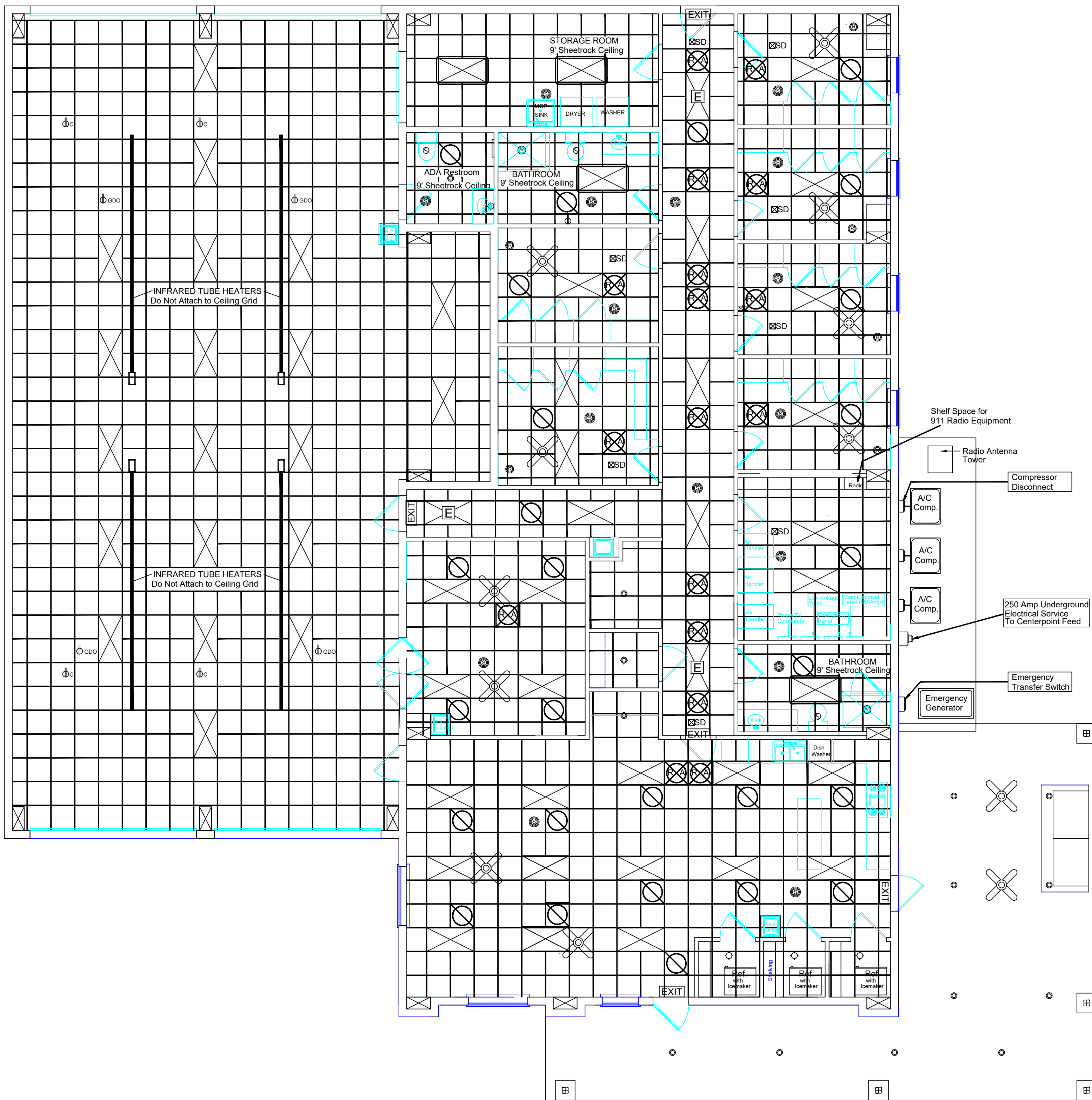
ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:
Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:
Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 22

NO SCALE



Metal Suspension Ceiling System Notes:

- Support System for Acoustical Panels**
 - Provide Standard Metal Suspension System Ceiling as indicated below and comply with ASTM C635.
 - Provide Manufacturer's Standard, Factory-Applied, white finish for the type of System indicated.
 - Attachment Devices; Size for 5 times the design load as indicated in ASTM C635, Table 1, Direct Hung, unless otherwise indicated.
 - Wire for Hangers and Ties; ASTM A641, Class 1, zinc-coated, soft-temper- Minimum gauge (12 gage)
- CEILING SUSPENSION SYSTEM-PRODUCTS**
 - Use Non-Fire Rated, Wide-Face, Double-Web Steel Suspension System;
 - White Donn DX 15/16 by USG Interior, Inc. or equal by;
 - Chicago Metal Corporation
 - USG Interior, Inc.
 - Edge Moulding (White)
 - White Donn M12CE by USG Interior, Inc. or equal by;
 - Chicago Metal Corporation
 - USG Interior, Inc.
 - Acoustical Panels (White)
 - White Armstrong Series 770-Cartega acoustical Panels: 24" x 24" x 5/8" Thick as manufactured by Armstrong World Industries, Inc., or equal.
- SUPPORT SYSTEM FOR SUSPENDED DRYWALL CEILING**
 - Provide Standard Metal Suspension System Ceiling which complies with ASTM C635 in rear Storage Room and three Bathrooms as shown.
 - Provide Manufacturer's Standard, Factory-Applied, Electroplated galvanized or Hot Dipped Galvanized coating to all suspension components.
 - Provide 1 3/8" wide face tee grid to easily install sheetrock.
 - Attachment Devices; Size for 5 times the design load as indicated in ASTM C635, Table 1, Direct Hung, unless otherwise indicated.
 - Wire for Hangers and Ties; ASTM A641, Class 1, zinc-coated, soft-temper- Minimum gauge (12 gage)
- INSTALLATION**
 - Before commencing installation, verify that all work of other trades such as electrical, plumbing and A/C, has been completed, and that work spaces are enclosed for temperature and humidity uniformity.
 - Space hanger wires a maximum of four feet on centers along main runners. Hang grid wire plumb and do not splay more than 5" in 4' vertical.
 - Level all main runners, spacing them a maximum of 4' apart.
 - Space cross members as shown in plan. Install surfaces flush and level and secure to main runners and wall angles. Frame-in lights and provide additional wire support at all corners of light fixture. Frame-in registers, return air grills and bathroom exhaust fans.
 - Attach wall angle level with runners using mechanical fasteners. On masonry firewalls attach wall angles with masonry anchors in grouted cells or in mortar joint.
 - Install acoustical board with pattern uniform and install R-30 fiberglass, unfaced batts on top of each panel.
 - GRID LAYOUT: Center light fixture in center of both hallways as guide for grid layout in hallways. Verify layout intentions in rooms and Apparatus Bays with Project Manager prior to commencing layout.

REV.				DATE				DESCRIPTION				APP.			

CEILING GRID LEGEND

- ⊕c Ceiling Mounted Dual Receptacle
- ⊕gdo Receptacle for Garage Door Opener
- ⊙ Speaker
- ⊕ Ceiling Mounted Light Fixture
- ⊙ Recessed Can Light
- ⊙ Recessed Can Light Water Resistant
- ⊙ Recessed Can, Red Emergency Light
- ⊙ Exhaust Fan
- ⊙ Exhaust Fan with Light
- ⊕ 2'x4' Surface Mounted Fluorescent Light
- ⊕ 2'x4' Fluorescent Light
- ⊕E 2'x4' Emergency Fluorescent Light
- ⊕ 2'x2' Fluorescent Light
- ⊕F Ceiling Fan
- EXIT Ceiling Mounted Exit Light
- ⊕ 2' x 2' Ceiling Grid Air Diffuser
- ⊕G 2' x 2' Ceiling Mounted Return Air Grill with Filter

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

CEILING GRID LAYOUT
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 23

SCALE 3/16" = 1'

PLUMBING SPECIFICATIONS: DIVISION 15

1. LOCAL and STATE CODES/ORDINANCES and GENERAL CONDITIONS OF CONTRACT shall be adhered to in all portions of the work Associated with the Plumbing Contract.
2. ADOPTED ENERGY CODE shall be followed. All equipment, piping, insulation and controls of equipment shall conform.
3. VISIT SITE and ascertain existing conditions prior to providing equipment or fabricating ducts and pipings.
4. Plumbing drawings are schematics and shall not be scaled. Plumbing Contractor shall install all piping using the dimensions and configurations on the floor plan. In case of conflicts the Plumbing Contractor shall contact the Project Manager.
5. AS–BUILT, scaled drawings of the Plumbing shall be provided to the Project Manager on an ongoing basis. These details shall be included in the final submittal to the fire district. These drawings shall include all piping, duct, and equipment changes from the original drawings.
6. SHOP DRAWINGS: Plumbing Contractor is entirely responsible creating, and checking Shop Drawings for 100% compliance with the Contract Documents.
7. BASE BID on Brand Names shown on the Approved Plan. Substitutions shall be allowed providing there is no loss in quality or time. Substitutions shall be approved by the Project Manager.
8. EXTRA COSTS or CHANGES shall be allowed only if approved by the Project Manager. Substitution shall not be allowed if they involve an extension in the time of construction.
9. EQUIPMENT SHOWN ON DRAWINGS: Contractor shall purchase, receive, uncrate, assemble, insure and install in conformance with manufacturer's recommendations. Additionally Contractor shall install and final connect Owner furnished equipment as indicated.
10. OPERATOR’S MANUALS shall be provided to Owner through the Project Manager for all systems and equipment including manufacturer's maintenance manual.
11. SLEEVES AND COLLARS shall be provided for all ductwork and pipes thru ceilings, floors, and walls in exposed areas. Provide chrome-plated escutcheons for piping penetrations thru ceilings, floors, and walls in finished areas. All water, soil, waste, vents and trim including fittings to be chrome-plated where exposed.
12. All vents thru roof shall be located on the downhill site of the Ridge vents. This will require routing main vents above the suspended ceilings to a desirable roof penetration location. Plumbing Contractor shall contact the Project Manager for the exact location of penetration. Roof penetrations shall be on the flat field, between two ribs of the Sheetmetal Roof. Support all venting and piping as required.

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
				JOE	4/29/07
				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					1

PLUMBING SPECIFICATIONS: DIVISION 15

13. Install all piping to avoid interference with mechanical and electrical equipment, piping and structural framing. No water or drain lines shall be near the electrical panels.
14. VALVES shall be provided to isolate every piece of equipment and for all rough-ins excluding waste and vents.
15. SOIL AND WASTE PIPING shall be Code approved plastic PVC shall be used. Provide Cleanouts as indicated on the Underground Plumbing drawing. Pipe each primary drain pan for the A.C. units with a P-trap, 3/4" drain line. Plumgibn Contractor shall also provide drain lines for secondary drain pan to waste system for the fire-station. Slope all drain line at 1/4" per foot.
16. VENT PIPING shall be approved PVC plastic pipe. Plumbing Contractor shall collect vent piping in the attic space into two stack leading through the roof. The roof penetrations shall be on the low side of the ridge cap. The total cross-sectional area of the two penetrating vents to be equal or greater than building sewer
17. WATER PIPING shall be type-K copper with no joints if used underground in the slab. Use no-lead 95/5 soldered joints type-L copper above grade. Insulate all water lines with an approved insulation material. FREEZE PROTECTION: route all piping inboard of interior insulation to avoid freezing.
18. GAS PIPING shall be standard weight black steel with malleable screwed fitting inside building and from meter to building where not buried. Gas line underground from the meter shall be approved polyethylene with steel compression connectors at the risers at both ends. Verify gas line routing from meter and meter location with Universal Gas Co. and Project Manager. Costs involved in gas service installation shall be included in bid. Provide line size valve just prior to entering the building.
19. TESTING; All lines shall be pressurized prior to instalation of sheetrock.
20. AIR CHAMBERS shall be 12" minimum high and provided at the end of each Hot Water and Cold Water main or rough-in.
21. During the progress of the work, the Plumbing Contractor shall maintain an accurate record of all changes made to the plumbing system. The record as-built drawings shall show changes, dimensions, locations and depth of all buried waste, vent, water and gas lines.
22. Upon completion of the project, the Plumbing Contractor shall inspect all exposed plumbing and remove any soil, markings or foreign material except product labels required by Code.
23. PRESSURE TEST all piping per Code but to at least 150% maximum working pressure.
24. GUARANTEE all labor and equipment for one year from the date of acceptance from Owner.

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
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				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					2

PLUMBING FIXTURE SCHEDULE (BATHROOMS)

- WC WATER CLOSET; Floor mounted, Tank type, 3" Closet Arm/Waste Minimum, 2" Vent, 1/2" Cold Water, 1.6 Gallons per flush, bolt caps, chrome-plated angle stops, open front, solid plastic elongated seat.
- American Standard Cadet #4112.300, ADA #4112.016
 - Eljer Patriot series model #091-2125, ADA #091-2175
- LC LAVATORY (Countertop); 1.5" Waste; 1.5" Vent; 1/2" Cold Water; 1/2" Hot Water, Vitreous China, 20" x 17" Oval, self-rimming vitreous china, front overflow with faucet and waste assembly, supplies and adjustable P-Trap.
- American Standard Aqualyn #476.028
 - Eljer Laura model #051-3514
 - Kohler model #K4989-T
 - Approved equal
- LW LAVATORY (Wall-Mounted); 1.5" Waste; 1.5" Vent; 1/2" Cold Water; 1/2" Hot Water, Vitreous China, 20" x 17" Oval, self-rimming vitreous china, front overflow with faucet and waste assembly, supplies and adjustable P-Trap.
- American Standard Lucerne #0355.012
 - Eljer Signature model #051-2104
 - Kohler model #K2032
 - Approved equal
- LF LAVATORY FAUCET; 4" Spread, Dual Lever style handles, Metal Construction with Chrome plated, chrome with porcelain, polished brass accents. Limit water flow to 2.2 gpm. Include metal pop-up assembly. Cetified to ANSI/NSF 61/9.
- Moen Castleby Model #4938.
 - Approved equal.
- MAS MOLDED ACRYLIC SHOWER; Locally Manufactured 48" x 35", Acrylic Stall Shower, with non-slip floor finish and grab bar. 2" trapped PVC Drain, 1-1/2" vent, 1/2" CW, 1/2" HW, complete with wall mounted diverter.
- Fixture; Kohler Freewill series or equal
 - Drain; Kohler K-9132 2" Drain with Strainer or equal
 - Valve; Moen TL 184 or equal
- GB HANDICAPPED GRAB BARS; Provide 2 stainless steel grab bars in the handicapped accessible bathroom. Bars shall have a minimum diameter of 1-1/4" and shall have a minimum lenght of 24" and 36" respectively.
- Bodrick B-550 or equal.

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
				JOE	4/29/07
				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					3

PLUMBING FIXTURE SCHEDULE (KITCHEN)

- KS KITCHEN SINK (Self-rimming); Provide 18 gauge, type 304(18-8) nickel bearing, self-rimming, stainless steel kitchen sink. Nominal dimensions of sink to be 37" x 22" x 8". Furnish sink with four faucet holes and 3-1/2" centered drain holes. Unit drains shall be connected to a 3-1/2" basket strainer on one side and a garbage disposal on the other side, connected together with 1-1/2" waste, 1-1/2" vent, 1-1/2" adjustable p-trap. Provide 1/2" cold water supply line, 1/2" hot water supply line, chrome angle-stops, brainded stainless steel flex. risers.
- Elkay Lustertone Double Bowl Sink, LR2722 or approved equal.
- KF KITCHEN SINK FAUCET; Provide Single Control Kitchen Faucet with Pullout Spray. Faucet shall have metal construction with Brushed Nickel finish. Faucet shall be equipued with a backflow prevention device.
- Moen Solara Series or equal.
- WDF WATER DISPENSER FAUCET; Provide standard 6"tall, low lead, brushed chrome, water dispenser faucet.
- TBD120 (Trim by Design) or equal.
- GD GARBAGE DISPOSAL; Provide In-Sink type, continuous feed, with 1/2 H.P. Motor, galvanized steel grinding elements, with two stainless steel 360° swivel lugs. Include self-service wrench and Two Year Limited Warranty.
- Badger 5 Series by IN-SINK-ERATOR a Division of Emerson Electric or equal.
- CF CHARCOAL FILTER; Provide a dual cylinder, .6 gallons per minute, VOC/Lead/ Cyst, Carbon black filled cartridges, white plastic, encapsulatæd household filtration system attached to Water Dispenser Faucet.
- GE Household Water Filtration System, Model # GXSV65F or approved equal.
- DW DISHWASHER CONNECTION; Provide hot water and drain connections and installation to dishwasher provided by Owner. Connection to include; WATER; Provide flexible,stainless steel, braided fill line with 3/8" O.D. compression fittings. Use a 90° elbow with 3/8" N.P.T. and 3/8" O.D. compression fitting to fill flex line. Connect fill port of flex line to dual port brass, angle stop under sink.
- DRAIN; Use the drain hose supplied with the Dishwasher and attach drain line to the Dishwasher port on the Garbage Disposal.
- RWC REFRIDGERATOR WATER CONNECTION; Furnish and install recessed Ice Maker Box. Unit shall come with a factory installed 1/4 turn ball valve with 1/2" sweat connection.
- I.P.S Corporation WaterTitte: Code # 82088 and MN W9700 or equal.
- RF REFRIGERATOR CHARCOAL FILTER; Provide In-Line, Single Cartridge, maximum flow of .5 GPM, activated carbon with automatic shutoff.
- GE In-Line Refrigerator Filter MN GXRTO or equal.

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
				JOE	4/29/07
				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					4

PLUMBING FIXTURE SCHEDULE (GENERAL)

- FD-1 FLOOR DRAIN; Adjustable, on-grade floor drain shall allow for 1.25" vertical adjustment before the concrete pour. Floor drain shall have a Schedule 40 Hub Connector which conforms to ASTM D2665(PVC). Connection to building Sewer System shall be made by solvent glue. Strainer for floor drain shall be of cast nickle and shall fasten into female threaded brass inserts. The floor drain shall be connection to the Waste System via a 3" PVC Schedule 40 Trap. Connection from the drain hub shall be for a 3" PVC Schedule 40 DWG pipe. Drainage pipe.
- Provide Sioux Chief Manufacturing Company, 832-4A2 or equal.
- FD-2 FLOOR DRAIN BAY AREA ; Adjustable, on-grade floor drain shall allow for 1.25" vertical adjustment before the concrete pour. Floor drain shall have a Schedule 40 Hub Connector which conforms to ASTM D2665(PVC) or D2661 (ABS). Connection to ADS drainage system shall be made by solvent glue. Strainer for floor drain shall be of cast nickle and shall fasten into female threaded brass inserts. The connection size for the Schedule 40 hub shall be for 4" ADS (HDPE) Drainage pipe.
- Provide Sioux Chief Manufacturing Company, 832-4A2 or equal.
- WH ELECTRIC WATER HEATER; The Water heater shall have a Nominal Operating Voltage of 240V and an Electrical input of 5KW. The Water Heater shall have a tank capacity of 80 gallons. Water heater shall have the UL seal of certification and be factory equipped with an AGA/ASME rated temperature and pressure relief valve. Tank interior shall coated with a high temperature porcelain enamel and furnished with an R-Tech resistored magnesium anode rod rigidly supported. Water heater shall meet or exceed the energy factor requirements of ASHRAE Standard 90.1b-2001. Tank shall have a working pressure rating of 150 psi, and shall be completely assembled. Tank shall be insulated with 2.5 inches of rigid polyurethane foam insulation. Water heater shall be equipued with surface-mounted thermostats each with an telegal, manual reset, high limit control. Water heater shall be covered by a three year limited warrenty against tank leaks.
- Provide RHEEM-RUUD ELD80 or equal.
- WF WATER FOUNTAIN Floor mounted Water Cooler and dispenser. Self-contained, electric refridgerated with capacity for 50°F drinking water. Non-Pressurized tank system. Waterway system shall utilize copper components and completely lead free materials.
- ELKAY No Lead Floor Model Water Cooler Model #EFA4 or equal

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
				JOE	4/29/07
				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					5

PLUMBING FIXTURE SCHEDULE (GENERAL)

- MS MOP SINK; Furnish and install utility sink. Furnish a 20 gallon capacity acrylic, white, 4 legged sink. Sink shall be resistive to fading and abrasion and shall have a 1-1/2" drain opening. Unit shall be connected with 1-1/2" Waste, 1-1/2" vent, 1-1/2" adjustable p-trap, 1/2" cold water supply line, 1/2" hot water supply line, chrome angle-stops, braided stainless steel flex risers.
- Florestone Model FM Utility Sink or equal.
- MSF MOP SINK FAUCET; Furnish and install Chrome-plated brass service sink faucet. Faucet shall be fitted with an aerator, inlet shanks on 4" center, 1/4 turn chrome plated brass valves.
- Chicago Faucet Model #1891-S6, Chrome (Code # 230-2480) or equal.
- WMH WASHING MACHINE HOOK-UP; Furnish and install recessed washing machine box with 2" PVC drain coupling and knock-out test cap. Unit shall come with factory installed 1/4 turn ball valve with 1/2" sweat connection.
- I.P.S Corporation WaterTitte: Code # 82064 and MN W4700 or equal.
- HB HOSE BIBS; Furnish and install hoe bibs as shown on Sheet 21 Floor Plan. Use Woodford series B65-VB freezeproof with vacuum-breaker, and flush wall box or equal.
- NATURAL GAS HOOK-UPS
- Furnish and install black iron piping, 1/4 turn valves and flex connector lines, properly sized for the intended uses, gas hook-ups to the following systems.
- 3 Furnaces in Mechanical Room.
 - Gas stove in Kitchen- Install with aux. emergency solenoid cutoff valve.
 - Gas Barbecue Grill on Front Patio - Install with aux. emergency solenoid cutoff valve.
 - Four 50,000 B.T.U. Infrared Heaters in Garage Bay area.
 - Clothes Dryer
 - Auxiliary Generator

LAND AND SEA ENT., INC. SPECIFICATIONS					
				DRAWN BY	DATE
				JOE	4/29/07
				CHECKED BY	INDEX NO.
				DIVISION 15: PLUMBING	1506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					6

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Division 15: Plumbing
Specifications/Fixtures

FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

SHEET 24

NO SCALE

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet 1, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

ELECTRICAL PLAN
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

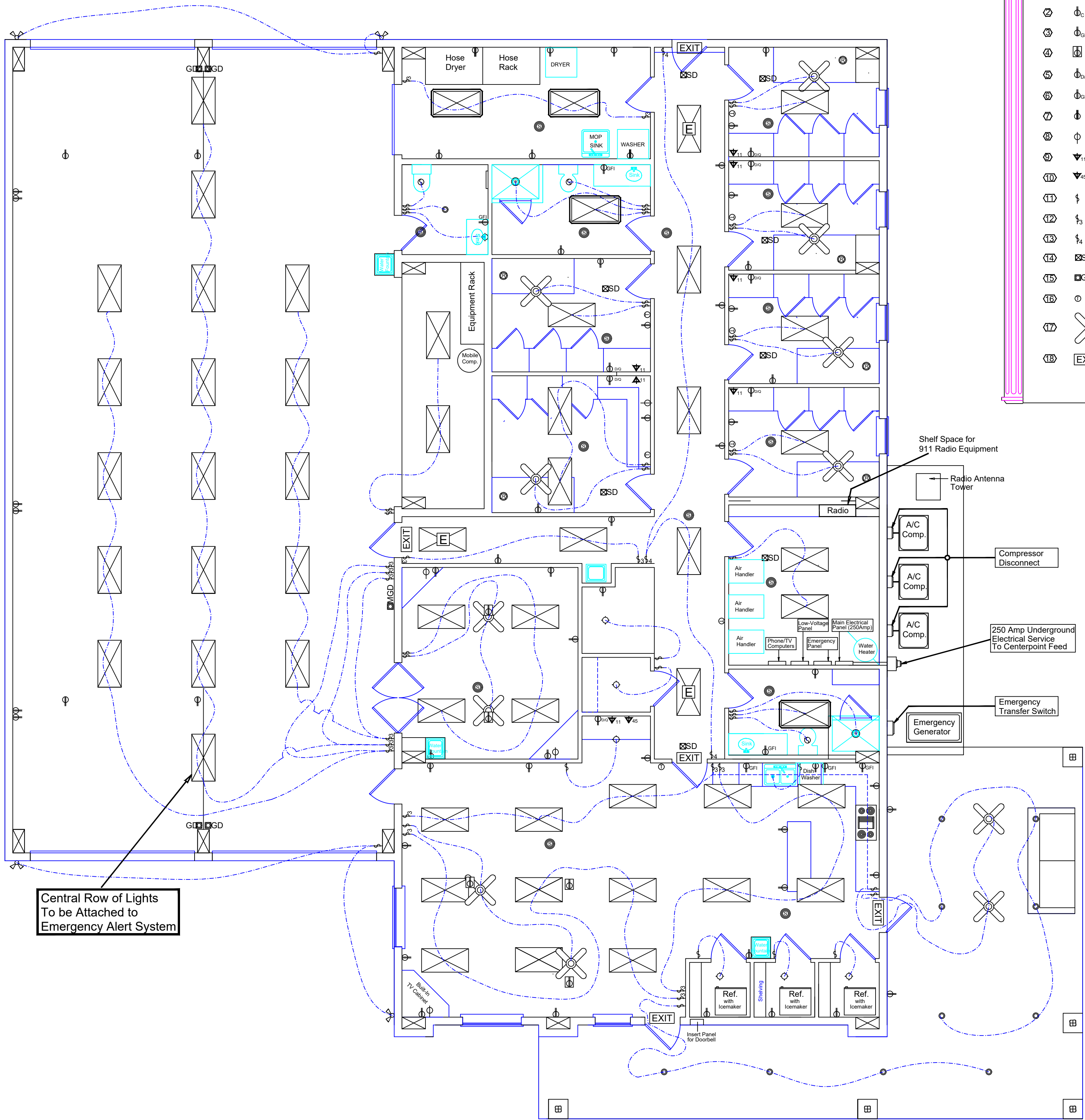
Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 25

SCALE 3/16" = 1'



Electrical Legend			
110 volt Receptacle	110 volt Ceiling Mounted Receptacle	110 volt Garage Door Receptacle	110 volt Floor Receptacle
110 volt Dual Quad Receptacles	110 volt GFI	220 volt Receptacle	Cable for Television
RJ-11 (Telephone Outlet)	RJ-45 (Cat-5E Data Outlet)	Single Pole Switch	Three Way Switch
Four Way Switch	Smoke Detector	Garage Door Opener Switch	Thermostat
Ceiling Fan	Ceiling Mounted Exit Light	Speaker	Chimes
Ceiling Mounted Light Fixture	Recessed Can Light	Recessed Can Light Water Resistant	Recessed Can, Red Emergency Light
Wall Mounted Light	Porcelain Fixture, Pull Cord	Flood Lights	Exhaust Fan
Exhaust Fan with Light	MGD Master Garage Door Opener	2'x4' Fluorescent Light Grid Mounted	2'x4' Emergency Fluorescent Light Grid Mounted
2'x4' Fluorescent Light Surface Mounted	2'x2' Fluorescent Light		

Electrical Notes

- Furnish and Install Doorbells at Front Exterior Doors
Run doorbell wire to intercom in Mechanical Room
- Provide Outlet for each Water Fountain
- Emergency Equipment Wiring to be Provided by Contractor
- Emergency Equipment to be Provided by Owner
- Radio Antenna Tower and Equipment to be Furnished by Owner
- Electrical Contractor to Furnish and Install 1" PVC Conduit in Slab, Where Indicated on Foundation Plan
- Contractor to Provide 15 Kw, Natural Gas Fired, Standby Generator
- Aux. Panel Shall be Connected to;
A. Emergency Circuits
B. Lighting Circuits
C. Receptacle Circuits
D. Ground-Faulted Circuits
E. A/C Unit to Dorm Rooms
- Red Emergency Lights in Dorms Attached to 911 Alert System
- Speakers, Telephone and Data to be wired using CAT-5e Wire
- Speakers, Telephone and Data wiring to terminate in Low Voltage Panel
- Contractor shall not install more than 10 Dual Receptacles per 20 Amp circuit.
- See Sheet 26 and Sheet 27 for load calcs and Electrical Specifications.
- All electrical outlet boxes located on the exterior firewall shall be surface mounted.
All EMT to these receptacle shall be installed vertically.

PANELBOARD "A"

PANEL TYPE: SEE EQUIPMENT SHEET FOR APPROVED

VOLTAGE: 120/240 SINGLE PHASE

CURRENT RATING: 250 AMPS

CKT. NO.	LOAD DESCRIPTION	BRK. TYPE	Brk. Size, Amps	Brk. Size, Amps	BRK. TYPE	LOAD DESCRIPTION	CKT. NO.
1	A/C Compressor #2	Full Size-Double	40	100	Full Size-Double	EMERGENCY PANEL	2
3	A/C Compressor #3	Full Size-Double	40	30	Full Size-Double	Water Heater	4
5	Hose Dryer	Full Size-Double	30	30	Full Size-Double	Cloth Dryer	6
7	Air Compressor	Full Size-Double	30	20	Full Size-Double	Septic System Pump	8
9	Spare	Full Size-Double	30	30	Full Size-Double	Spare	10
11							12
13							14
15							16
17							18
19							20
21							22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40

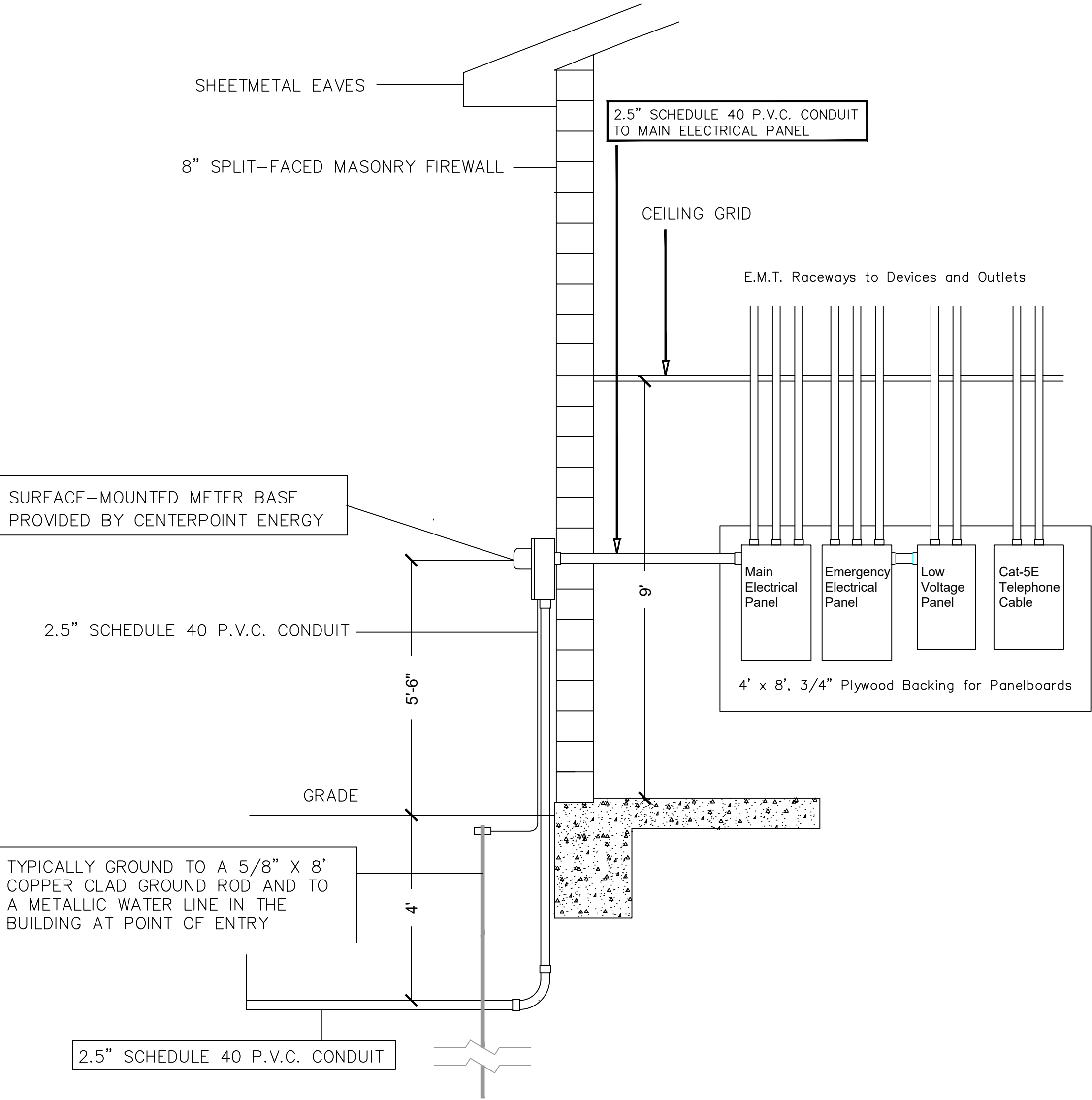
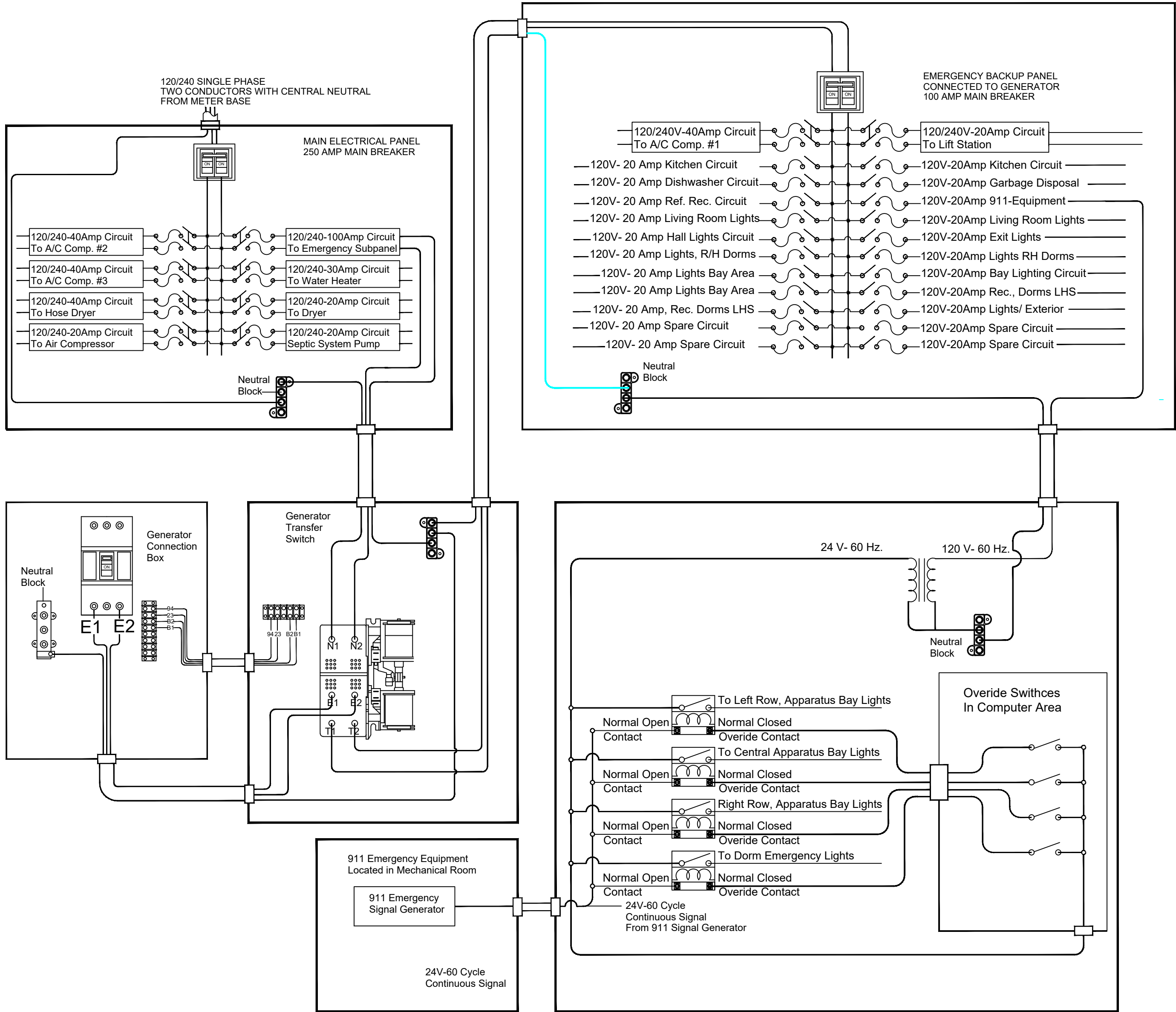
PANELBOARD "B" (EMERGENCY GENERATOR PANEL)

PANEL TYPE: SEE EQUIPMENT SHEET FOR APPROVED

VOLTAGE: 120/240 SINGLE PHASE

CURRENT RATING: 100 AMPS

CKT. NO.	LOAD DESCRIPTION	BRK. TYPE	Brk. Size, Amps	Brk. Size, Amps	BRK. TYPE	LOAD DESCRIPTION	CKT. NO.
1	Dorm Rooms A/C	Full Size-Double	40	20	Full Size-Double	LIFT STATION	2
3	Kitchen Receptacle Circuit	Half Size Single	20	20	Half Size-Single	Kitchen Receptacle Circuit	4
5	Dishwasher	Half Size Single	20	20	Half Size-Single	Garbage Disposal	6
7	Receptacles/Ref.	Half Size Single	20	20	Half Size-Single	911 Equipment	8
9	Lighting Circuit/Living	Half Size Single	20	20	Half Size-Single	Lighting Circuit/Living	10
11	Lighting Circuit/Hallway	Half Size Single	20	20	Half Size-Single	Lighting Circuit/Exit lights	12
13	Lighting/RH-Dorms	Half Size Single	20	20	Half Size-Single	Lighting /LH Dorms	14
15	Lighting Apparatus Bay	Full Size Single	20	20	Full Size Single	Lighting Apparatus Bay	16
17	Lighting Apparatus Bay	Full Size Single	20	20	Half Size-Single	Rec/Dorms	18
19	Rec/Dorms	Half Size Single	20	20	Half Size-Single	Lighting-Exterior	20
21							22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40



ELECTRICAL LOAD CALCULATIONS

LOAD CALCUALTIONS ARE BASED ON OCCUPANCY LEVEL:
3- 4 FIREMEN ON A FULL-TIME BASIS
SQUARE FOOTAGE OF RESIDENTIAL = 4,142 SQ. FT.
SQUARE FOOTAGE OF GARAGE AREA = 2,478 SQ. FT.
GENERAL LIGHTING_____19.1 KVA
LIGHTING LOADS AUX. AREAS_____3.00 KVA
Use Article 220 of the 2005 Edition of the
the National Electrical Code to
calculate the use factor.
16.01 KVA X .35 (USE FACTOR PER N.E.C.)= 5.635 KVA
TOTAL GENERAL LIGHTING LOADS_____8.635 KVA
OTHER LOADS
WASHER_____1.5 KVA
DRYER_____5.0 KVA
HOSE DRYER_____3.0 KVA
HOT WATER HEATER_____5.0 KVA
AIR COMPRESSOR_____2.4 KVA
DISHWASHER_____1.5 KVA
DISPOSAL_____0.72 KVA
SEPTIC SYSTEM_____2.4 KVA
LIFT STATION_____2.4 KVA
GENERAL OUTLETS: 55 X 180 VA PER_____9.9 KVA
A/C CONDENSERS:
-1 (DORM AREA) AT 100%_____6.72 KVA
-2 (LIVING AREA) AT 40%_____5.38 KVA
25% OF LARGEST MOTOR_____1.68 KVA
TOTAL KVA_____56.23 KVA
REQUIRED AMPERAGE= 54.23 KVA/240 V_____234.3 A
SERVICE BREAKER AMPERAGE_____250 AMPS

ELECTRICAL EQUIPMENT AND PANELBOARDS SPECIFICATIONS

PANELBOARD "A" - MAIN SERVICE PANEL
Provide Surface-Mounted, 250 Ampere Capacity, NEMA-TYPE 1 Enclosure, 40 Split-Breaker Capacity, complete with specified circuit breakers.
Allowable Manufacturers: Selmans, Cutler-Hammer, GE, and Square-D.
PANELBOARD "B" - EMERGENCY GENERATOR PANEL
Provide Surface-Mounted, 100 Ampere Capacity, NEMA-TYPE 1 Enclosure, 40 Split-Breaker Capacity, complete with specified circuit breakers.
Allowable Manufacturers: Selmans, Cutler-Hammer, GE, and Square-D.
ENCLOSURE "C" - LOW-VOLTAGE PANEL
Provide Surface-Mounted, 42" x 14.25" x 4", Steel Enclosure, with A.C. power outlet knockouts, roll-type mounting System.
Pass & Seymour Part # 363476-01 or Equal.
ENCLOSURE "D" - CAT5e/CABLE AND TELEPHONE NETWORK CENTER
Provide Surface-Mounted, 42" x 14.25" x 4", Steel Enclosure, with A.C. power outlet knockouts, roll-type mounting System.
Pass & Seymour Part # 363476-01 or Equal.
NATURAL GAS STANDBY GENERATOR
Provide a 15KW GENERAC Power Systems, Inc. Model #004675, or approved equal, complete with Transfer Switch.
STANDBY TRANSFER SWITCH
Provide a 100 Amp, 120/240 Volts, 2 pole, NEMA-TYPE 1 Enclosure transfer switch, GENERAC Power System, Inc. RTS Automatic Transfer Switch, or approved equal.

MONTGOMERY COUNTY

Emergency Services District #3

PROPOSED PROJECT

ON

HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS

4731 HONEA EGYPT

MONTGOMERY, TEXAS

77356

Electrical Details

FOR FIRE STATION #33

ON HONEA EGYPT ROAD

OWNER

MONTGOMERY COUNTY

Emergency Services District #3

15663 Hwy 105 West

MONTGOMERY, TEXAS

77356

PH. 936-588-2222

Project Design

Project Engineering

Project Management

ASCENTRUST, LLC.

16920 KUYKENDAHL

SUITE 200

HOUSTON, TX. 77068

PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier

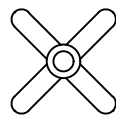
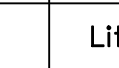
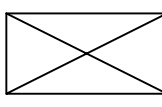
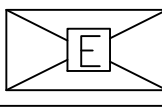
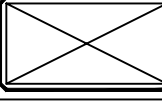
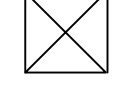
B.Sc.E.E., M.Sc.E.E.

PH. 936-827-9944

Plans Reviewed by:

SHEET 26

NO SCALE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER AND PRODUCT NUMBER	NUMBER AND TYPE OF LAMP	MOUNTING
①	⌚	110 volt Receptacle	Receptacle- Pass & Seymour PT362-A or Equal Cover Plate- Pass & Seymour: One Gang Wall Plate SP8-W or Equal	N/A	RECESSED
②	⌚c	110 volt Receptacle	Receptacle- Pass & Seymour PT362-A or Equal Cover Plate- Pass & Seymour: One Gang Wall Plate SP8-W or Equal	N/A	RECESSED
③	⌚Q00	110 volt Receptacle	Receptacle- Pass & Seymour PT362-A or Equal Cover Plate- Pass & Seymour: One Gang Wall Plate SP8-W or Equal	N/A	RECESSED
④	⌚	110 volt Floor Receptacle	Floor Box- Wiremold 882C Round PVC Floor Box or Equal Receptacle- Pass & Seymour PT362-A or Equal Cover Plate-Wiremold Brass Duplex Cover Plate # 895TCL or Equal	N/A	RECESSED
⑤	⌚ _{1/2}	110 volt Dual Quad Receptacles	Receptacle- Pass & Seymour PT362-A or Equal Cover Plate- Pass & Seymour: Two Gang Wall Plate SP82-W or Equal	N/A	RECESSED
⑥	⌚GFI	110 volt GFI	Receptacle- Pass & Seymour TradeMaster 1595-W or Equal Cover Plate- Pass & Seymour: One Gang Wall Plate TP26-W or Equal	N/A	RECESSED
⑦	⌚	220 volt Receptacle	Receptacle- Pass & Seymour 30A/250V IGL630-P or Equal Cover Plate- Pass & Seymour: One Gang Wall Plate TP720-W or Equal	N/A	RECESSED
⑧	⌀	Cable for Television	Connector Insert- Pass & Seymour Activate Media Modular Inserts Single BNC Insert 2A-BNC-F-WH or Equal Cover Plate- Pass & Seymour: One Port Wall Plate TPD1-W or Equal	N/A	RECESSED
⑨	▼ ₁₁	RJ-11 (Telephone Outlet)	Connector Insert- Pass & Seymour Activate Media Modular Inserts Single RJ12 Insert S6U-W or Equal Cover Plate- Pass & Seymour: One Port Wall Plate TPD1-W or Equal	N/A	RECESSED
⑩	▼ ₄₅	RJ-45 (Cat-5E Data Outlet)	Connector Insert- Pass & Seymour Activate Media Modular Inserts Single RG45 Insert S68-W or Equal Cover Plate- Pass & Seymour: One Port Wall Plate TPD1-W or Equal	N/A	RECESSED
⑪	⌚	Single Pole Switch	Toggle Switch- Pass & Seymour Hard Use and Commercial CSB20AC1-LA or Equal Cover Plate- Pass & Seymour: One Port Wall Plate SP1-W or Equal	N/A	RECESSED
⑫	⌚ ₃	Three Way Switch	Toggle Switch- Pass & Seymour Hard Use and Commercial CSB20AC3-W or Equal Cover Plate- Pass & Seymour: One Port Wall Plate SP1-W or Equal	N/A	RECESSED
⑬	⌚ ₄	Four Way Switch	Toggle Switch- Pass & Seymour Hard Use and Commercial CSB20AC1-LA or Equal Cover Plate- Pass & Seymour: One Port Wall Plate SP1-W or Equal	N/A	RECESSED
⑭	ⓈSD	Smoke Detector	BRK Electronics 9120B or Equal	N/A	SURFACE
⑮	ⓈGD	Garage Door Opener Switch	Furnished and Installed by Overhead Door	N/A	SURFACE
⑯	Ⓢ	Thermostat	Furnished and Installed by A/C Contractor	N/A	SURFACE
⑰		Ceiling Fan	52", White, 5-Blade, Indoor/Outdoor, 7,600 cfms max, Furnish Dakota # IVP23 or equal	N/A	SURFACE
⑱	EXIT	Ceiling Mounted Exit Light	ConTech Lighting, White Housing, Catalog Number EXOHRLEDEM-P, or Equal	N/A	SURFACE
⑲	Ⓢ	Speaker	Furnished by 911-Radio Supplier	N/A	N/A
⑳	Ⓢ	Chimes	Run Doorbell Wire to Speaker System in Mechanical Room	N/A	N/A
㉑	◇	Ceiling Mounted Light Fixture	LeMar Lighting; CRW11311PN1SW or Equal	1- CFL13W	SURFACE
㉒	⊙	Recessed Can Light	HOUSING; COOPER-HALO H71CAT or Equal TRIM; COOPER-HALO 310P or Equal	COOPER-HALO 65W BR30 or Equal	RECESSED
㉓	⊙	Recessed Can Light Water Resistant	HOUSING; COOPER-HALO H71CAT or Equal TRIM; COOPER-HALO Water Resistant 310P or Equal	COOPER-HALO 65W BR30 or Equal	RECESSED
㉔	⊙	Recessed Can, Red Emergency Light	HOUSING; COOPER-HALO H71CAT or Equal TRIM; COOPER-HALO 310P or Equal	COOPER-HALO 65W Red Bulb or Equal	RECESSED
㉕	⊙	Wall Mounted Light	N/A	N/A	RECESSED
㉖	⊙ _{Pc}	Porcelain Fixture, Pull Cord	N/A	N/A	SURFACE
㉗		Flood Lights	Lithonia Lighting; White, MNOFTH-300PR-120W	2- Phillips: Halogen, 90PAR 38/HAL/FL	SURFACE
㉘	⊙	Exhaust Fan	Broan Nu-Tone Model L100 or Equal	N/A	RECESSED
㉙	⊙ _{Li}	Exhaust Fan with Light	N/A	N/A	N/A
㉚	ⓈMGD	Master Garage Door Opener	Furnished and Installed by Overhead Door	N/A	SURFACE
㉛		2'x4' Fluorescent Light	2' x 4' TAMLITE LIGHTING Troffer MN- TLT4440 or Equal	4/F34T12 CW or Equal	RECESSED GRID MOUNTED
㉜		2'x4' Emergency Fluorescent Light	2' x 4' TAMLITE LIGHTING Troffer MN- TLT4440 or Equal	4/F34T12 CW or Equal	RECESSED GRID MOUNTED
㉝		2'x4' Fluorescent Light	2' x 4' Surface Mounted Luminaire S. B. Series by LaMar Lighting MN; SB-4-40-M2-1-PA-24 X 48	4/F40T12 or Equal	SURFACE GRID MOUNTED
㉞		2'x2' Fluorescent Light	2' x 2' TAMLITE LIGHTING Troffer MN- TLT4217E or Equal	4/2' F17T8-741 or Equal	RECESSED GRID MOUNTED

ELECTRICAL SPECIFICATIONS

Furnish and install, including labor, supervision, materials, tools, services, transportation overhead costs, profit, etc., a complete installation as specified herein and in the attached specifications. Furnish and install all control wiring for mechanical systems, all wiring for Low-Voltage System and all wiring for 911-Emergency System in a neat, first-class, finished, safe and workmanlike manner that complies with the National Electrical Code. The entire installation shall comply or surpass the 2003 Edition of the National Electrical Code.

All materials and equipment furnished by the electrical contractor shall be new and of first-class quality, free from defects, and conform to Underwriter's Laboratories, Inc. standards, where applicable. Materials and equipment not indicated on the drawings or specified herein, but required for a successful, and efficient completion of the electrical installation shall be held to be implied and shall be furnished and installed for no additional cost. Enclosures for all equipment shall be suitable for use intended. (e.g. Weatherproof for exterior and wet voltages, H.P. rating of Disconnect switches, etc.

Materials, equipment, etc., including those furnished by others (Owner) that are to be installed by the Electrical Contractor shall be received and properly protected by the Electrical Contractor until entire installation is complete.

Make no installation of work which would leave inadequate operating or service space for any item for the entire project. Drawings are not intended to show details or all features of the work. Check location of electrical work to determine in advance that it clears all openings, structural members, etc. Arrange and schedule work so that a minimum of cutting and patching is required. Where the plans and specs do not meet with minimum codes, the Contractor shall comply with said code at no additional cost.

All devices for the project shall be equal to commercial grade 20A toggle switches and 20A receptacles. All device cover plates shall be slater Sta-Kleen type, color of devices and plates shall be determined by the Owner's Representative at the time of purchase. Approved Manufacturers are P. & S. (Pass and Seymour) Hubbell & Leviton.

All wiring shall be installed in approved raceways. Raceways shall be approved for use intended. All electrical conductors shown on the plan are copper, minimum size of conductors shall be #12 AWG, with THW or THWN insulation, control wiring may be #18 or smaller if required or recommended by supplier of equipment as applicable.

Provide and install separate equipment grounding conductors in all conduit raceways per N.E.C. Electrical Metallic Tubing (EMT.) raceways and approved fittings shall be used where concealed in area above ceilings, furred spaces, partitions and walls. Provide bond conductors with all branch circuits installed in EMT.

Rigid non-metallic conduit (PVC), schedule 40 may be installed for direct burial raceways where installed at a minimum depth of 24 inches.

Metal Clad Armored cable (MC) can be used as a jumper from ceiling fixture to ceiling fixture when the fixtures are all on the same lighting circuit. MC may also be used in horizontal runs in metal-framed walls.

Drawings showing electrical work are partly diagrammatic and are not intended to show in detail all features of the work. No extra payment shall be allowed where omissions in work of other trades or work under this section requires offsets, etc. Take measurements and do fitting on job. Check location of electrical work to determine in advance that it clears all openings and structural members, that the equipment will be properly concealed and that equipment clears all other cabinets, fixed equipment, windows and door.

The electrical contractor shall fully guarantee the entire electrical installation and all work under this section for a period of two years from the date of final acceptance by the Owner against all evidence of imperfect workmanship, failure or malfunction of materials and equipment furnished by the Contractor. Work found to be defective within this time period shall be replaced without cost to the Owner.

				LAND AND SEA ENT., INC. ENGINEERING DETAILS		
				DRAWN BY JOF	SPECIFICATIONS	DATE 24/07
				CHECKED BY JSH	DIVISION 16; ELECTRICAL	INDEX NO 617
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY		
					1	

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet 1, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Electrical Details
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

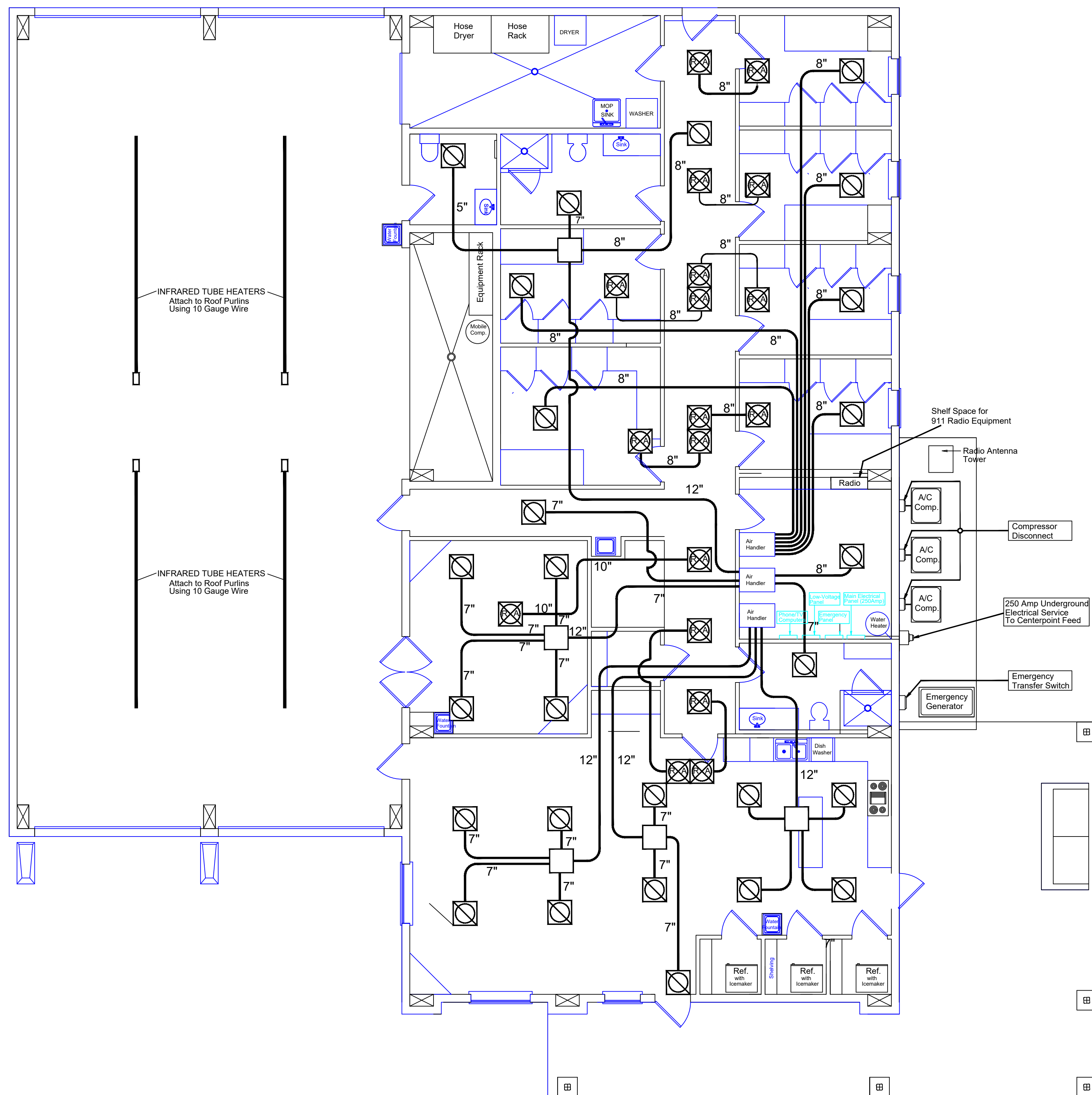
Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

SHEET 27

NO SCALE



NOTES

GENERAL NOTES:

1. All work and equipment shall conform to applicable State and National codes.
2. All field conditions and jobsite dimensions are to be verified prior to commencement of work.
3. All A/C work shall be co-ordinated with other trades.
4. The location of all roof penetrations shall close to the ridge cap of the standing seam roof. All penetrations shall be between the ribs of the standing seam (if applicable). All Contractors shall contact the Project Manager prior to installing roof penetrations.
5. The location of all ceiling diffusers, grilles, and registers shall be coordinated with the Project Manager, the reflected ceiling plan, the electrical plan, the fire fire sprinkler plan, the emergency exit plan.

GENERAL CONTRACTOR:

1. Provide all necessary roof jacks, runners and platforms.
2. Provide all necessary roofing, patching, cutting, furring, flashing and painting.
3. Size and location of all required penetrations shall be co-ordinated with the A/C Contractor and the Project Manager.

ELECTRICAL CONTRACTOR

1. Furnish and install all line voltages to Compressors and air handlers.
2. Furnish and install J-Boxes and conduit for Thermostats. All thermostats are to be located 48" from Finish Floor. For locations of thermostats see SHEET 25: Electrical Plan.
3. Furnish and install all switches, magnetic starters, contactors, relays, circuit breakers and disconnect switches required to start-up the A/C Systems.
4. The final connection to the compressors to be flexible conduit (Sealtite or equal).
5. The wiring diagrams in this plan are schematics only and are intended to show sequence and methods of operations. All electrical work shall comply with the 2005 Edition of the National electrical Code.

AIR CONDITIONING CONTRACTOR

1. All OSA (Outside Air) intakes shall be a minimum of 10' from toilets or exhaust fan discharges, plumbing or appliance vents.
2. All ductwork to comply to S.M.A.C.N.A. and other applicable Code Standards. All ducts shall be round, sheetmetal with interior insulation.
3. Plenums and diffusion boxes shall be constructed of interior insulated sheetmetal.
4. Return-Air boxes, under the vertical air handlers may be lined with Ductboard.
5. All transverse joints to be sealed per Code Requirements.
6. All Ductwork and Return Air shall be properly insulated.
7. All air conditioning units are to be furnished with maintenance Manuals, Schedules, tags and permanent labeling indicating the areas served.
8. Air Conditioning System to Dorm rooms shall be equipped with a damper for each dorm room. An automatic temperature control device shall be installed in each dorm room to control the ambient temperature of the room independently.
9. Automatic temperature control devices for regulation of of space temperature shall be capable of being set from 55° to 85° and have the ability to operate the heating and cooling in sequence.
10. All gas-fired heating equipment shall have an electronic igniter.
11. Location of Gas Fired Infra-Red Tube Heaters shall be verified with the Project Manager and positioned as shown on Sheet 23 Ceiling Grid Layout.
12. A maintenance manual shall be provided to the Owner by the Mechanical Contractor.

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

MECHANICAL PLAN
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 28

SCALE 3/16" = 1'

H.V.A.C. SPECIFICATIONS: DIVISION 15

1. LOCAL and STATE CODES/ORDINANCES and GENERAL CONDITIONS OF CONTRACT shall be adhered to in all portions of the work Associated with the H.V.A.C. Contract.
2. ADOPTED ENERGY CODE shall be followed. All equipment, piping, insulation and controls of equipment shall conform.
3. VISIT SITE, meet with Project Manager and ascertain existing conditions prior to providing equipment or fabricating ducts and pipings.
4. Mechanical drawings are schematics and shall not be scaled. Design is based on the use of round ducts. The Mechanical Contractor may redesign the system using square ductwork. Mechanical ductwork redesign shall be approved by the Project Manager.
Mechanical Contractor shall co-ordinate work with other trades and use the configurations shown on the floor plan as a basis for his layout. In case of conflicts the Contractor shall contact the Project Manager.
5. AS-BUILT, scaled drawings of the Mechanical Layout shall be provided to the Project Manager on an ongoing basis. These details shall be included in the final submittal to the fire district. These drawings shall include all piping, duct, and equipment provided by the Mechanical Contractor.
6. SHOP DRAWINGS: Mechanical Contractor is entirely responsible for creating, and checking Shop Drawings for compliance with the Contract Documents. Mechanical Contractor shall co-ordinate fabrication and installation of equipment and component with the Project Manager and the Plumbing and electrical Contractors.
7. BASE BID on Brand Names shown on the Approved Plan. (If not named on the Plan contact the Project Manager) Substitutions shall be allowed providing there is no loss in quality or time. All substitutions shall be approved by the Project Manager.
8. EXTRA COSTS or CHANGES shall be allowed only if approved by the Project Manager. Substitution shall not be allowed if they involve an extension in the time of construction.
9. EQUIPMENT SHOWN ON DRAWINGS: Contractor shall purchase, receive, uncrate, assemble, insure and install in conformance with manufacturer's recommendations. Additionally Contractor shall install and final connect Owner furnished equipment as indicated.

LAND AND SEA ENT., INC.					
SPECIFICATIONS			DATE		
DRAWN BY	JDF		4/9/07		
CHECKED BY			18179		
DESIGNED BY	JUL				
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
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MECHANICAL SPECIFICATIONS: DIVISION 15

10. OPERATOR'S MANUALS shall be provided to Owner through the Project Manager for all systems and equipment including manufacturer's maintenance manual.
11. SLEEVES AND COLLARS shall be provided for all ductwork and pipes thru ceilings, floors, and walls in exposed areas. Provide chrome-plated escutcheons for piping penetrations thru ceilings, floors, and walls in finished areas.
12. All vents thru roof shall be located on the lower edge of the Ridge Cap. This location will require routing vents for gas furnaces from the mechanical room to the location on the roof layout drawing (See Below). Mechanical Contractor shall contact the Project Manager for the exact location of penetration. Roof penetrations shall be in the flat field of the PBR Metal Roof, (between two major ribs of the PBR Metal Roof). Support all venting and piping as required.
13. Install all ducting and piping to avoid interference with plumbing and electrical equipment, piping and structural framing.
14. Caulk all duct and seams with 3-M Hard-Cast or equal per Code.
15. CONCEAL all work in finished areas.
16. CONFIRM voltage, phase and ampacity with Electrical Contractor prior to ordering equipment. All controls and interlock wiring required for A/C equipment shall be furnished and installed by the mechanical Contractor. Controls for heating/cooling equipment to automatically restart after power failure.
17. SHEET METAL shall be fabricated using SMACNA (Sheetmetal and Air-Conditioning Contractor's National Association) Standards.
 - A. Rectangular AC-unit supply and return air ducts to be lined with .5 inch thick 2.0 lb density, UL-181 Class-1Certainteed Surface coated ductliner or approved equal.
 - B. Round AC-unit supply and return air ducts to be lined with .5 inch thick 2.0 lb density, UL-181 Class-1Certainteed Surface coated ductliner or equal.
18. All ductwork shall have a minimum of R-6 Insulation.
19. GAS FIRED INFRA-RED TUBE HEATERS
Provide 4, 20 foot long, 50,000 B.T.U., Natural Gas, Low Intensity, Infra-Red tube gas heaters. Each unit shall have 100% safety shut off, with 7/8" flare stainless steel connecting hose and 1/2" Gas Cock. Provide Dayton MN 7D837A, TYPE 20-4" ALUM or equal.

LAND AND SEA ENT., INC.					
SPECIFICATIONS			DATE		
DRAWN BY	JDF		4/9/07		
CHECKED BY			18179		
DESIGNED BY					
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
					2

H.V.A.C. EQUIPMENT SPECIFICATIONS

- GENERAL; Mechanical Contractor shall furnish and install three independent split systems, each complete with the following subsystems. The A.C. equipment shall be rated at 13 S.E.E.R.'s
- AIR HANDLER/ FURNACE AND COMPRESSOR;
Provide a 4 Ton A.C. air handler with approximately 4000 cfms of capacity. Provide a gas-fired furnace. Locate the three units in the Mechanical Room, as indicated on Sheet 28 Mechanical Layout. Provide a 4 Ton air compressor, making up the other half of the Split split system. Use the same manufacturer's equipment on both ends of the split system.as the air handler. Acceptable Manufacturers: Crane, Lennox, Carrier, American Standard, Amana, Trane or equal.
- A/C DIFFUSSORS
Provide 2' x 2' grid mounted ceiling diffusers capable of delivering air in a true 360° pattern.
Use Titus Model TMS-AA or equal.
- RETURN AIR IN CEILING GRID
Provide 2' x 2' grid mounted ceiling air return grills connecting the individual rooms to the common hallway return. Connect as shown on the drawing. Do not use the attic space as a plenum.
Use Titus Model TMS-AA or approved equal.
- RETURN AIR GRILLS
Provide 18" x 30" wall mounted return air grill. Attach frame of grill to the exterior of the return air cavity. Provide grill with Air Filter.
Use Titus Model TMS-AA or approved equal.
- MOTORIZED DAMPER;
Provide an 8", 24 VAC, Zone Controller and Damper for each Dorm room. Each dorm shall be equipped with it's own thermostat.
Use Honeywell ADRS8 Round Motorized Damper or equal.
- THERMOSTATS;
Provide Mercury free, 24 VAC, heating and cooling, Digital, non-programmable thermostats.
Use Honeywell No. 3AY87 or equal.

LAND AND SEA ENT., INC.					
SPECIFICATIONS			DATE		
DRAWN BY	JDF		4/9/07		
CHECKED BY			18179		
DESIGNED BY					
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY	
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MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Division 15: Mechanical
Specifications/Fixtures

FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

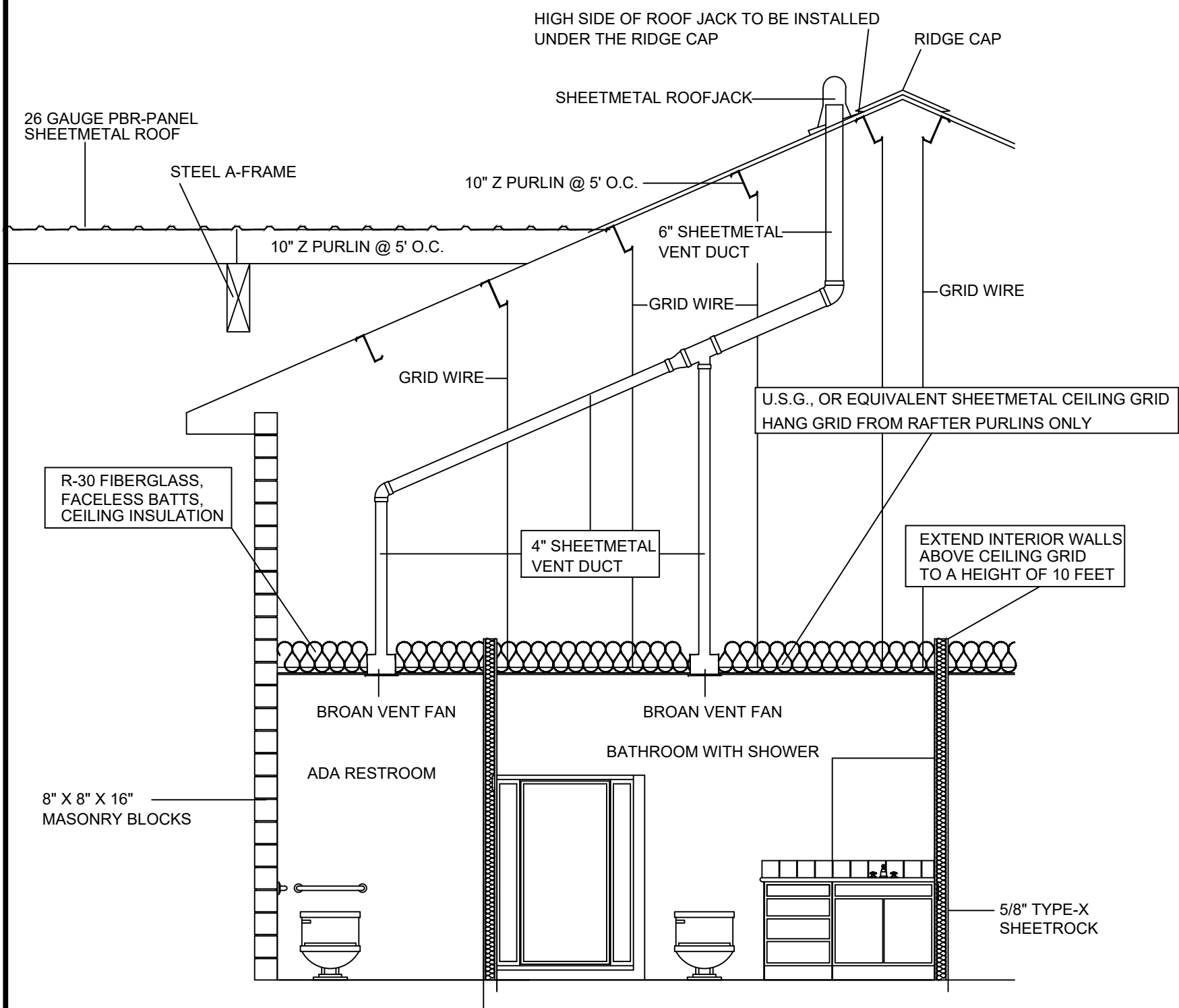
Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

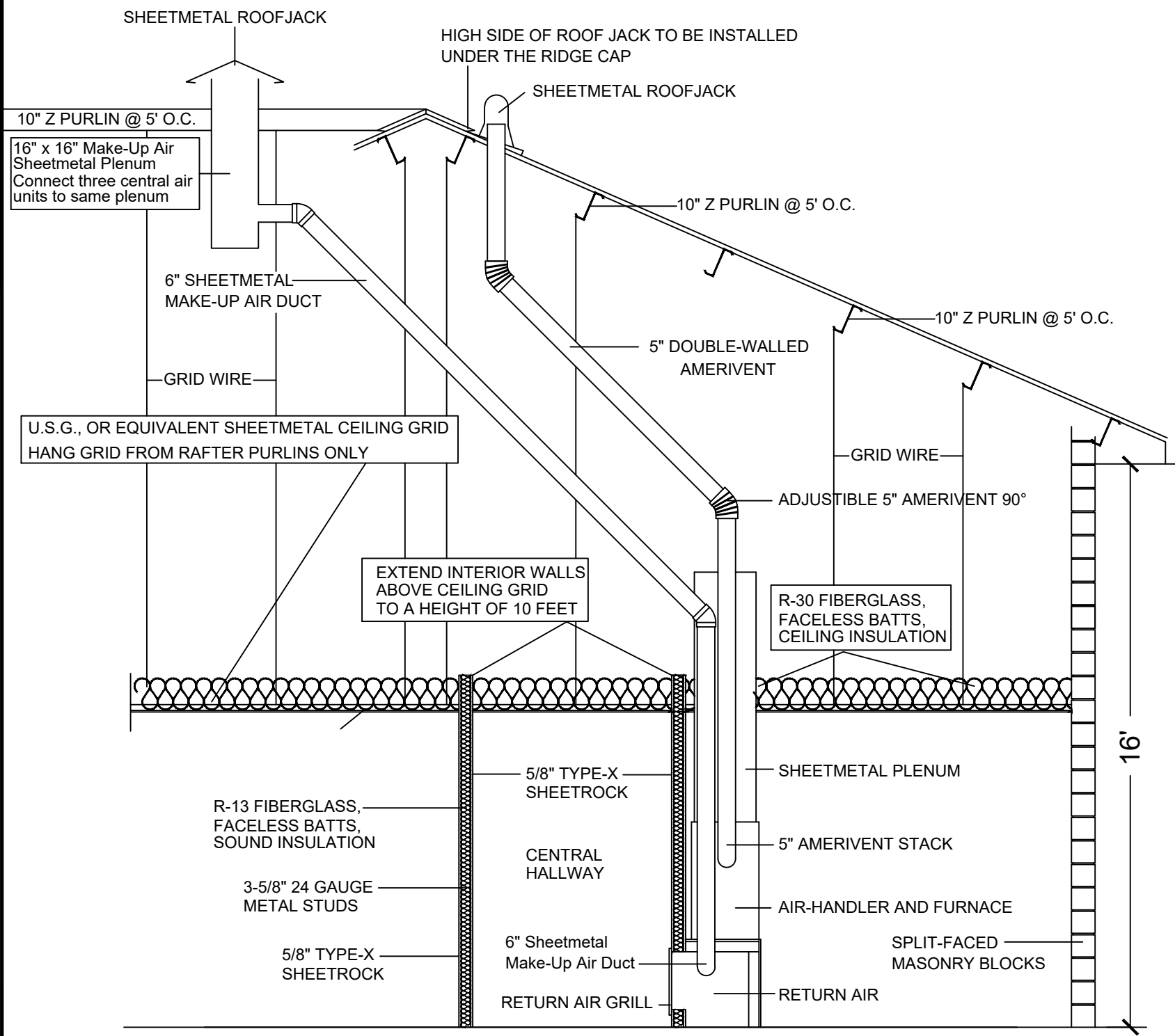
Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 29

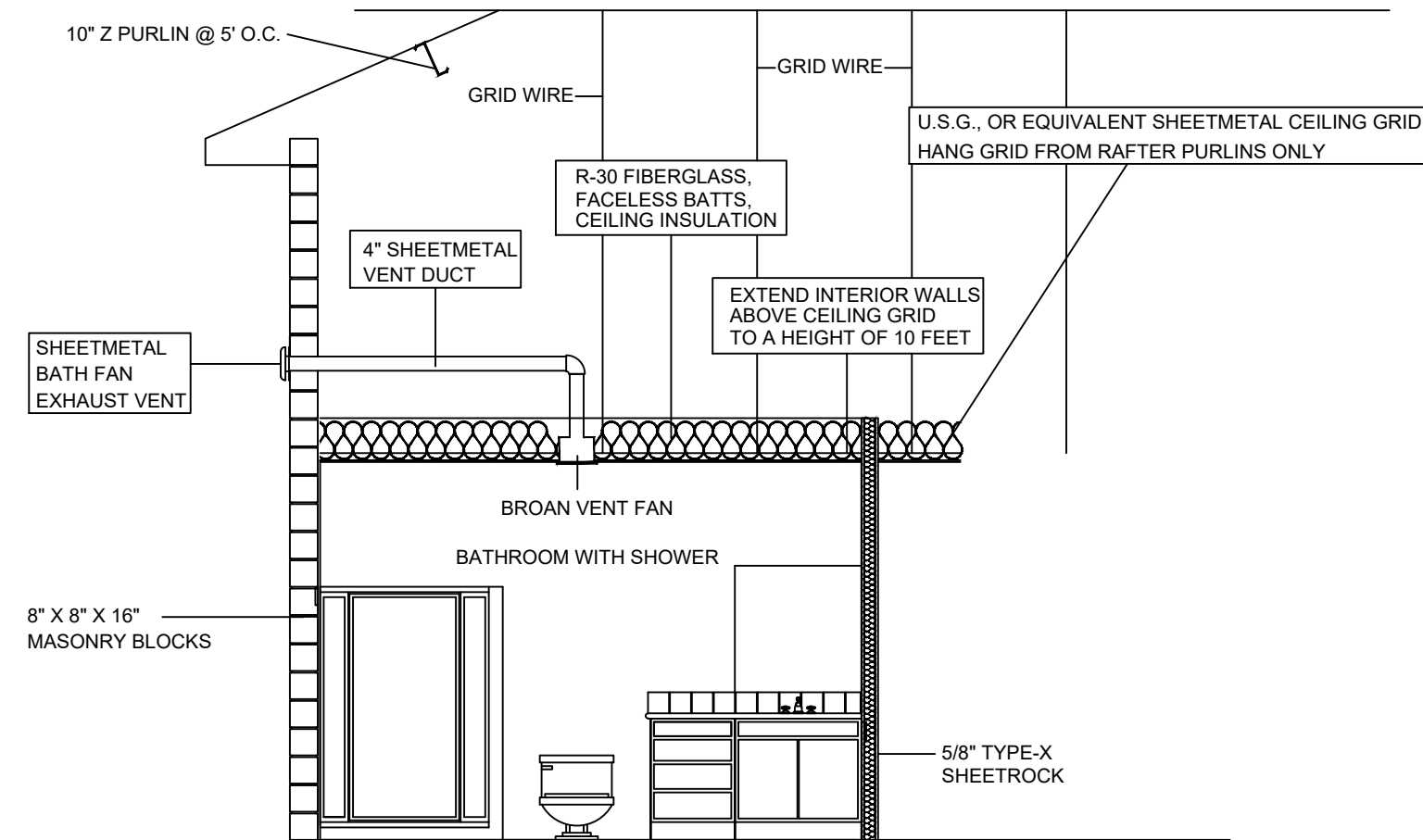
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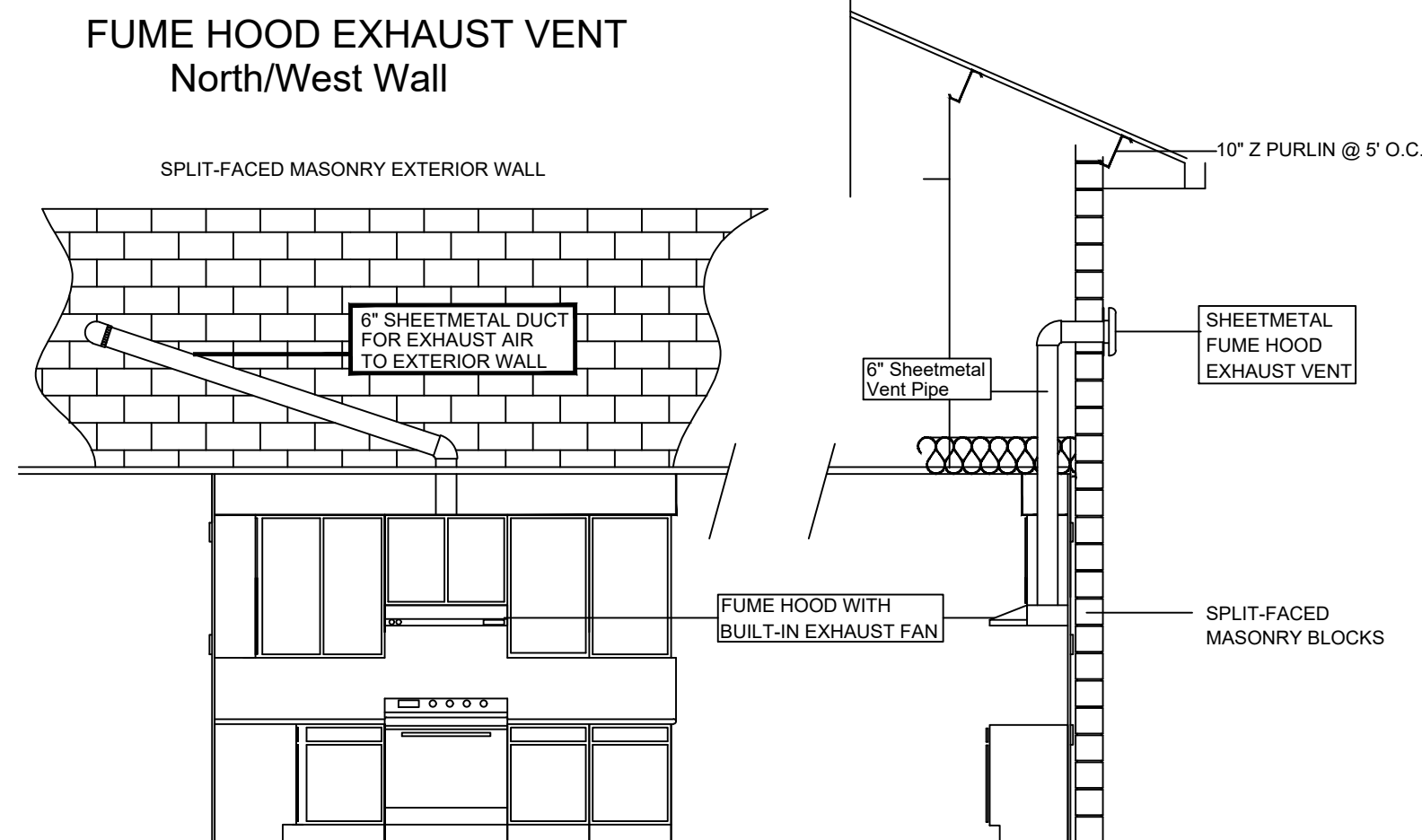
BATHROOM EXHAUST FAN VENTING



CENTRAL A/C AND HEATING:
MAKE-UP AIR AND VENTING



BATHROOM EXHAUST FAN VENTING



MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet 1, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

ROOF PLAN
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3
15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

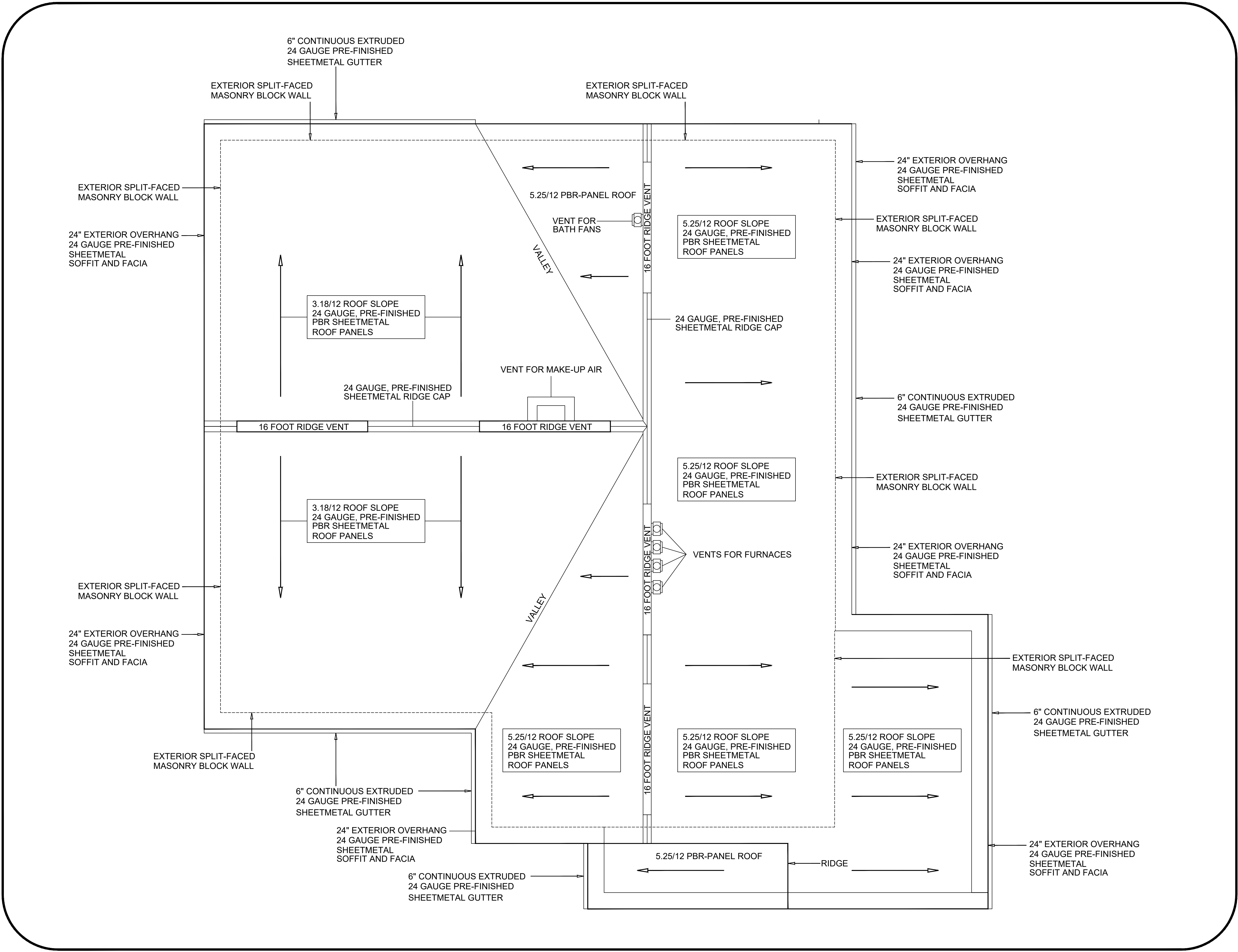
Project Design
Project Engineering
Project Management
ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:
Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:
Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 30

SCALE 3/16" = 1'



DIVISION 4: MASONRY SPECIFICATIONS

1. LOCAL AND STATE CODES/ORDINANCES AND GENERAL CONDITIONS OF CONTRACT shall be adhered to in all portions of the work Associated with the Masonry Contract.
2. Masonry Contractor shall provide 8" x 8" x 16" Split-Faced Masonry Blocks at exterior of building, including the gable ends.
3. Masonry Contractor shall provide 8" x 8" x 16" Masonry Blocks at interior firewalls of building, including the gable ends; as indicated. Masonry Firewall shall extend to a minimum height of 16.5' and shall extend past the eave struts and the sheetmetal cornish.
4. Units shall be lightweight, hollow, load-bearing Concrete Masonry Units, 8" x 8" x 16" Nominal size in Grade N, conforming to A.S.T.M. C 90. Completed Masonry work shall have an ultimate compressive strenght of F M = 1500 PSI.
5. Sand shall be clean, sharp and well graded, free from injurious amounts of dusts, lumps, Shale, Alkali or Organic Material and shall conform to A.S.T.M. C-144.
6. Pea Gravel shall be graded with not more than 5% passing the No. 8 sieve and 100% pasing the 3/8" sieve.
7. Grout shall be freshly prepared and uniformly mixed in proportions of 1 part Cement, 3 part sand and two parts pea gravel. 3/8" Maximum grout shall have a minimum Compressive Strenght of 2000 PSI at 28 Days.
8. Mortar shall be freshly prepared and uniformly mixed in proportions of 1 part Cement, 4 part sand and 1/4 Minimum to 1/2 Maximum Lime Puty. Mortar shall be Type "S" and shall have a minimum Compressive Strenght of 2000 PSI at 28 Days.
9. Cells shall be in vertical alignment to provide a Minimum Unobstructed Core of 4" x 4". Dowels from footing shall be set to align with cores containing re-inforcement.
10. Provide (2) #5 Vertical Re-Bar at each end of Openings, bearing points, ends and corners of walls.
11. Provide 6" x 6" x #10 Ladder re-inforcement in mortar joints @ 16" O.C.
12. All Masonry shall run true to the Corners and all intersections shall be lapped. Special shapes and sizes shall be provided as required for a professional appearance. Irregular shapes shall be cut neatly with a Motor Driven Saw.
13. All cells containing re-inforcing anchors or inserts shall be solid grouted.
14. Grout pours shall be stopped 1-1/2" below the top of the Upper Most Unit.
15. All cells not filled with grout shall be filled with Vermiculite for Insulation.
16. MASONRY CONTRACTOR AND ALLOWANCE: The selected Masonry Contractor is: COMPLETE MASONRY, Contact Mr. Tommy Carroll at 936-672-5466. Contract price for Masonry is \$72,000.00. No substitution.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 4: MASONRY		JULY 2017	
REV.	DATE	DESCRIPTION	APP.	REVISION BY	DATE
1					

DIVISION 5: STRUCTURAL METAL SPECIFICATIONS

1. SCOPE: These Specifications outline the design criteria, material quality and minimum fabrication standards to be used by the Metal Building Supplier in the Design, Fabrication and Erection of the steel frame for the Fire Station.
2. MATERIALS INCLUDED: Standard materials furnished shall include primary and secondary structural framing members, bracing, metal roof panels, cornish, gutters and downspouts, trim, fastners, sealants, accessories, and all other component parts required for a complete building.
3. DRAWINGS: Building Supplier shall provide to Project Manager:
A. ERECTION INFORMATION: Building Supplier shall provide erection information drawings, as required for the erector to assemble the vendor's building on the Owners property.
B. ANCHOR BOLT SETTING PLAN: Building Supplier shall provide an anchor bolt setting plan. The plan shall include column reactions under 110 MPH wind loading, for use in the final design of the foundation.
C. LETTER OF DESIGN CERTIFICATION: The Building Supplier shall furnish a letter of Design Certification for the structural framing, metal cornish and covering panels for 110 MPH wind loading. The Letter of Certification shall be signed and sealed by a Registered Professional Engineer licensed in the State of Texas.
4. PRIMARY FRAME TYPE: Primary frame type shall be welded rigid frame design clear span type, with gable roof, pinned base columns. Columns shall be straight.
5. SECONDARY MEMBERS: Secondary Structural Framing Members shall refer to Purlins, Girts, Eave Struts, Base Members, Flange Bracing, Gable Angles, Clips and other miscellaneous structural parts. Purlins, girts, eave struts, Base Members and Gable Angles shall be cold formed from 14 Gauge steel which has a minimum yield strenght of 55,000 psi and shall conform to the physical specifications of ASTM A-70.
A. PURLINS: Purlins shall be a rolled form steel, 16 Gauge, Zee sections, 10 inches deep and shall be installed at a maximum spacing of 5 feet.
B. GIRTS AND EAVE STRUTS: Girts and eave struts shall be cold formed Cee section, 10 inches deep, with top and bottom flanges.
6. CONNECTIONS
A. FIELD CONNECTIONS: All field connections shall be bolted. All primary field connections shall be furnished with high strenght bolts conforming to ASTM A-325. All secondary bolted connections shall be furnished with machine bolts conforming to the physical specifications of ASTM A-307.
B. SHOP CONNECTIONS: All shop connections shall be welded using either submerged arc, gas metal arc or shielded arc process. Welding shall be in accordance with the applicable sections, of the latest edition of the American Welding Society "Structural Welding Code".

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 5: STEEL		JULY 2017	
REV.	DATE	DESCRIPTION	APP.	REVISION BY	DATE
1					

DIVISION 6: EXTERIOR FINISH CARPENTRY SPECIFICATIONS

1. SUMMARY: Furnish and install Hardie-plank fiber cement siding and fiber-cement soffit panels and Hardie-Trim, fiber cement trim and moulding as shown on drawings.
2. PRODUCT HANDLING: Lay Hardie-plank, Hardie-trim and Hardie-panels flat on a smooth level surface. Protect edges and corners from chipping. Store under cover and keep dry prior to installation.
3. JOB CONDITIONS:
A. Steel gable wall framing shall consist of a Minimum 20 gauge 3 5/8" C-Stud @ 16" O.C..
B. Steel ceiling joists @ the front porch shall be a Minimum 20 gauge, 6" C-Stud @ 16" O.C..
C. Steel ceiling joists @ the 14' wide side porch shall be a Minimum 20 gauge, 10", C-Stud @ 16" O.C..
D. Provide 1/2" C.D.X. Plywood sheeting over the metal framing at the gable end.
E. Install weather-resistive barriers (TyVec or equal) prior to installation of siding.
4. PRODUCTS:
A. Manufacturers: James Hardie Corporation, CertainTeed Corp., Mid-America Siding Corporation or equal.
B. Hardie-Plank, Hardie-Panel and Hardie-Trim shall be non-asbestos fiber-cement siding complying with ASTM Standard Specification C1186 Grade II, Type A.
C. FASTENERS: Fastners for metal framing shall be 1 5/8" No. 8-18 x 0.323" head, self-drilling, corrosive resistant S-12 ribbed buglehead screws.
5. INSTALLATION:
A. Install flashing around all wall openings.
B. Fasten through trim into structural framing or code complying sheeting. Fasteners shall penetrate full thickness of sheeting.
C. Place fastners no closer than 1 inch from end. Fasten maximum of 16" on center.
D. Trim inside board with single board.
E. Allow 1/8" gap between trim and siding. Seal gap with with high quality paintable caulk.
F. Shim frieze boards as required to align with corner trim.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 6: STEEL		JULY 2017	
REV.	DATE	DESCRIPTION	APP.	REVISION BY	DATE
1					

DIVISION 7: ROOF COVERING/ FLASHING/TRIM SPECIFICATIONS

1. GENERAL: Standard Covering for roof shall be ribbed-type panel having 36 inches of covering. These panels shall be 24 gauge, with a painted coating. All panels shall be precession roll-formed to the configuration specified.
2. PANEL MATERIALS: Panels shall be roll-formed out of Galvalume. Galvalume steel panels shall have a minimum yield strenght of 80,000 psi and shall conform to the physical specification of ASTM A-924. Color coated panels shall have the exterior side finished with a silicone polyester coating system applied over the Galvalume substrate. Surface shall be chemically cleaned, pre-treated, primed, and coated, then oven-baked to cure. Total coating system shall have a minimum of one mil thickness. The interior side of the panel shall be protected by a wash coat applied at .5 mil dry film thickness. Panels shall be coated prior to roll forming.
3. PANEL CONFIGURATION AND FINISH: Ribbed roof panels shall be a PBR Panel having 1-1/4 inches deep major rib which tapers in width from 1 inch to 3-1/4 inches, and are spaced 12 inches on center. Between each major rib are two minor stiffening ribs. The "leading edge" rib has a bearing leg. Each panel shall provide 3 feet of lateral coverage. Panel color shall be selected by Owner from a color chart provided by Building Supplier.
4. FLASHING, TRIM AND CLOSURES: Soffit, fascia, flashing and/or trim shall be furnished at eaves, rake, valleys and wherever necessary to seal against the weather and to provide a finished appearance. Color shall be selected by Owner from Color Chart provided by Building Supplier. Profile and dimensions of all flashing/trim shall be manufacturer's standards.
GUTTERS AND DOWNSPOUTS: Contractor shall furnish and install continuous gutters and downspouts as indicated on drawings. Gutter shall have a profile to match rake trim. Downspouts shall be rectangular-shaped (6 inches by 4 inches). Color of gutters and downspouts shall be selected by Owner from Color Chart provided by Building Supplier.
Color coated steel for flashing, soffit, fascia, trim, metal closures, gutters and downspouts, and other miscellaneous uses shall be 24 gauge thickness of the same specifications as the roof covering material except for the yield strenght which will we adjusted to facilitate fabrication.
Pre-formed, closed cell, polyethylene closure strips matching the profile of the roof panel shall be installed along the eave and at other locations to provide weather tightness.
5. FASTENERS: Roof fasteners shall be No. 12 self-drilling fasteners 5/16 inch flat top undercut head with EPDM sealing washer that is compatible with color coated panel. Minimum lenght of fasteners shall be 1-1/4 inch for panel to structure application. Standard "Stitch" screws shall be No. 14 Self-drilling fasteners with 5/16 inch flat top undercut head with EPDM sealing washer with a lenght of 7/8 inch. Fasteners shall be painted to match the color of the roof

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 7: SHEETMETAL		JULY 2017	
REV.	DATE	DESCRIPTION	APP.	REVISION BY	DATE
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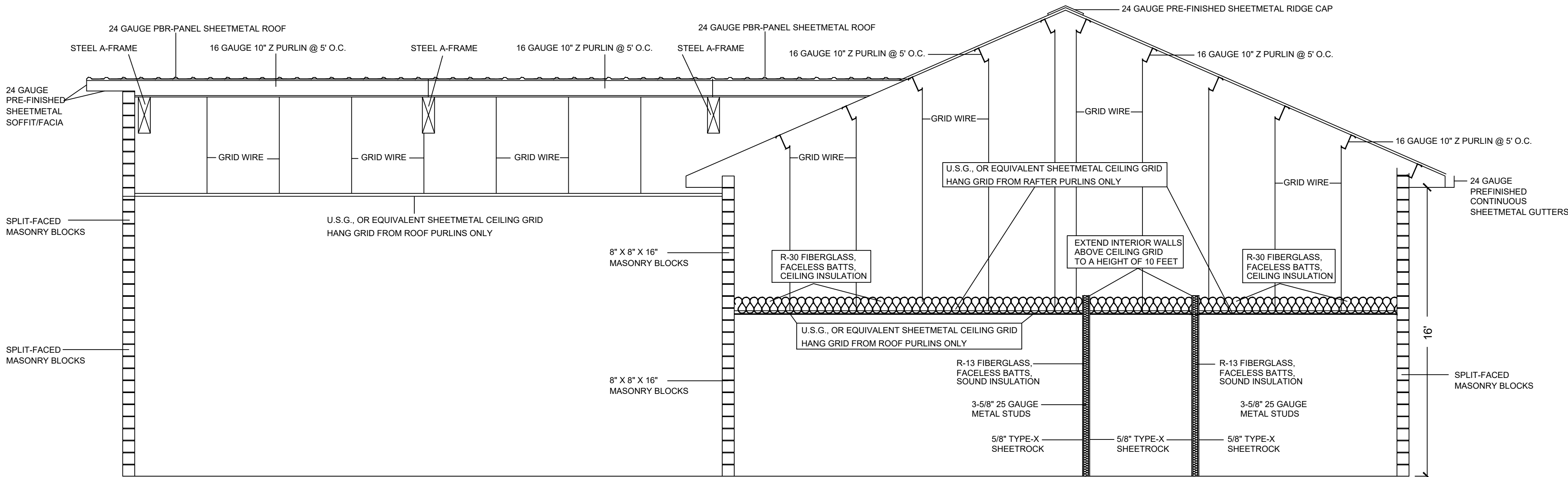
SPECIFICATIONS: DIVISION 7: INSULATION/ JOINT SEALERS

1. INSULATION
Contractor shall furnish and install insulation between the roof purlins and the roof sheeting. The insulation shall have an R value of 10 or more and shall be laminated on the underside with a vapor barrier. The thermal resistance of the insulation shall equal or exceed ASTM C 518 AND/OR ASTM C 177. The combustible properties of the insulation shall equal or exceed ASTM E 136. Provide Bay Insulation Company, Certainteed or equal.
2. SEALANTS
Sealants of side laps, end laps, accessories, etc, shall be pre-formed, butyl rubber based compound. The material shall be non-hardening, non-shrinking and non-corrosive and shall have excellent adhesion to metal, painted surfaces and plastic at temperatures ranging from 20 degrees Fahrenheit to +160 degrees Fahrenheit. These sealants shall be in tape mastic form, of size and shape adapted to various applications, and shall have a paper back for easy handling.
Tube sealant shall be used to supplement tape mastic sealants and shall be applied in locations indicated by the erection instructions. Tube sealants shall be synthetic elastomer-based material, which becomes tack-free in less than two hours at 75° Fahrenheit but retains flexibility.

DIVISION 7: EXTERIOR INSULATION AND FINISH SYSTEM (EFIS)

1. SCOPE: This Specification outline the material quality and minimum application standards to be used by the Contractor in the installation of the EFIS System at the front gable area of the Fire Station.
2. MATERIALS INCLUDED: Standard materials furnished shall include a minimum of 1" of Expanded Polystyrene Board over a 1/2" C.D.X. plywood substrate covered with a TyVec vapor barrier. The EFIS Finish System consists of base coat, fiberglass re-inforcing mesh and the finish coat.
3. QUALIFICATIONS OF INSTALLER: The installer shall be knowledgeable in the proper installation of each step of the EFIS System and shall furthermore be experienced in the installation of this System on a steel-stud framed vertical wall.
4. DELIVERY, STORAGE AND HANDLING: All mataerial shall be delivered to site in unopened packages with labels intact. Material shall be stored on the job site in a cool, dry location, out of direct sunlight and protected from the weather.
5. EXECUTION:
A. Prior to installation of expanded polystyrene substrate contractor shall verify that the plywood and TyVec are properly secured. Contractor shall glue and screw the polystyrene board to the plywood shear panel.
B. Prior to installation of the Base Coat of the EFIS Finish System, the contractor shall insure that all needed flashing and other waterproofing details have been completed.
C. The EFIS materials shall be mixed and applied in accordance with the Manufacturer's recommended application methods.
D. The overall minimum base coat thickness shall be sufficient to fully embed the mesh. The recommended method is to apply the base coat in two passes.
E. The base coat shall be allowed to dry for a minimum of 24 hours prior to the application of the finish coat.
F. For vertical surfaces, which exceed 200 square feet the use of control joints such as Plastic Components Inc. PL093 is recommended.
6. CLEANING: All excess materials shall be removed from the job site by the Contractor in accordance with the Contract Provisions.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 7: INSULATION, JOINT SEALER AND EFIS		JULY 2017	
REV.	DATE	DESCRIPTION	APP.	REVISION BY	DATE
1					



CROSS-SECTION THRU FIRE-STATION

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Construction Specifications #1
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

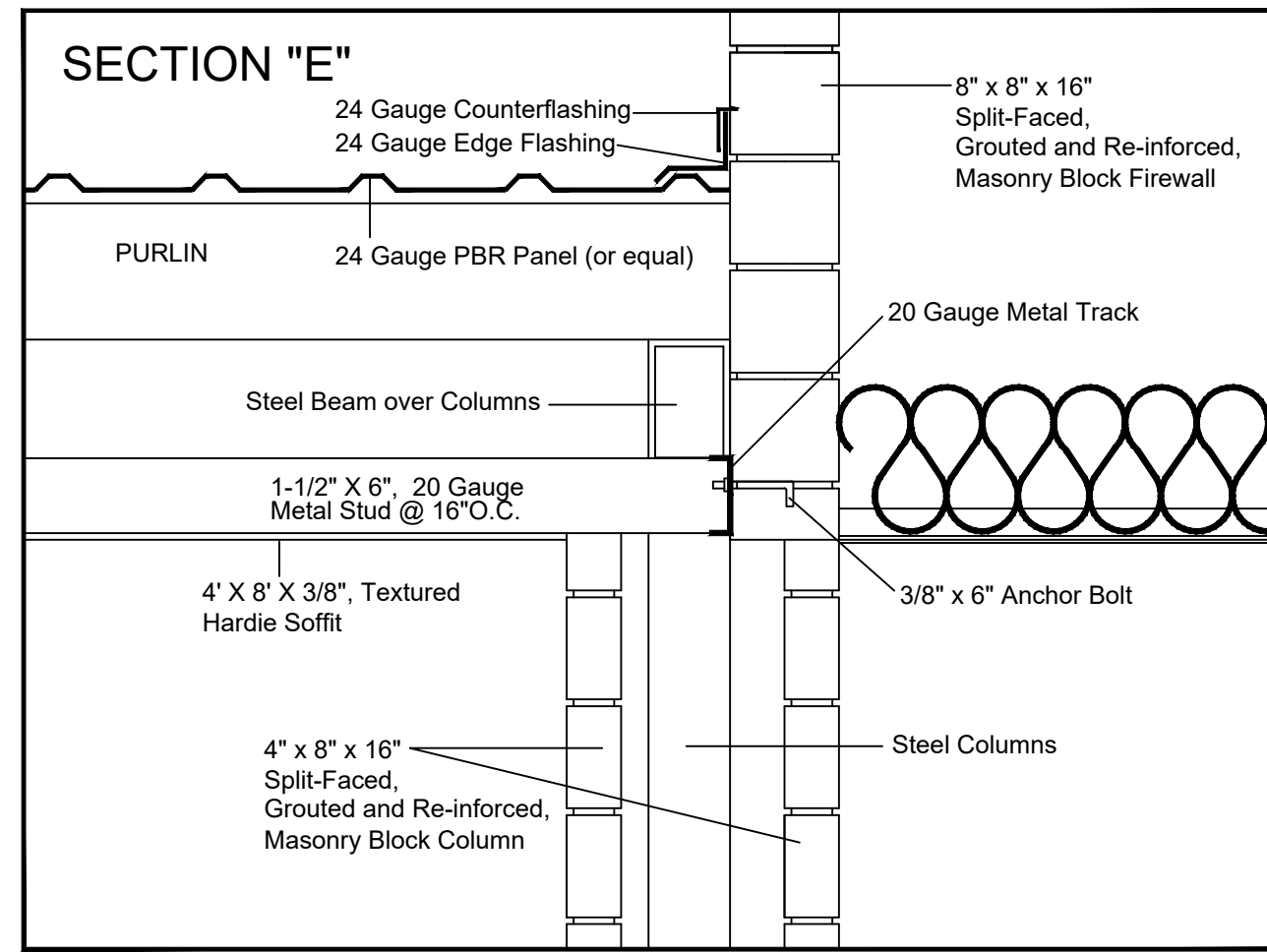
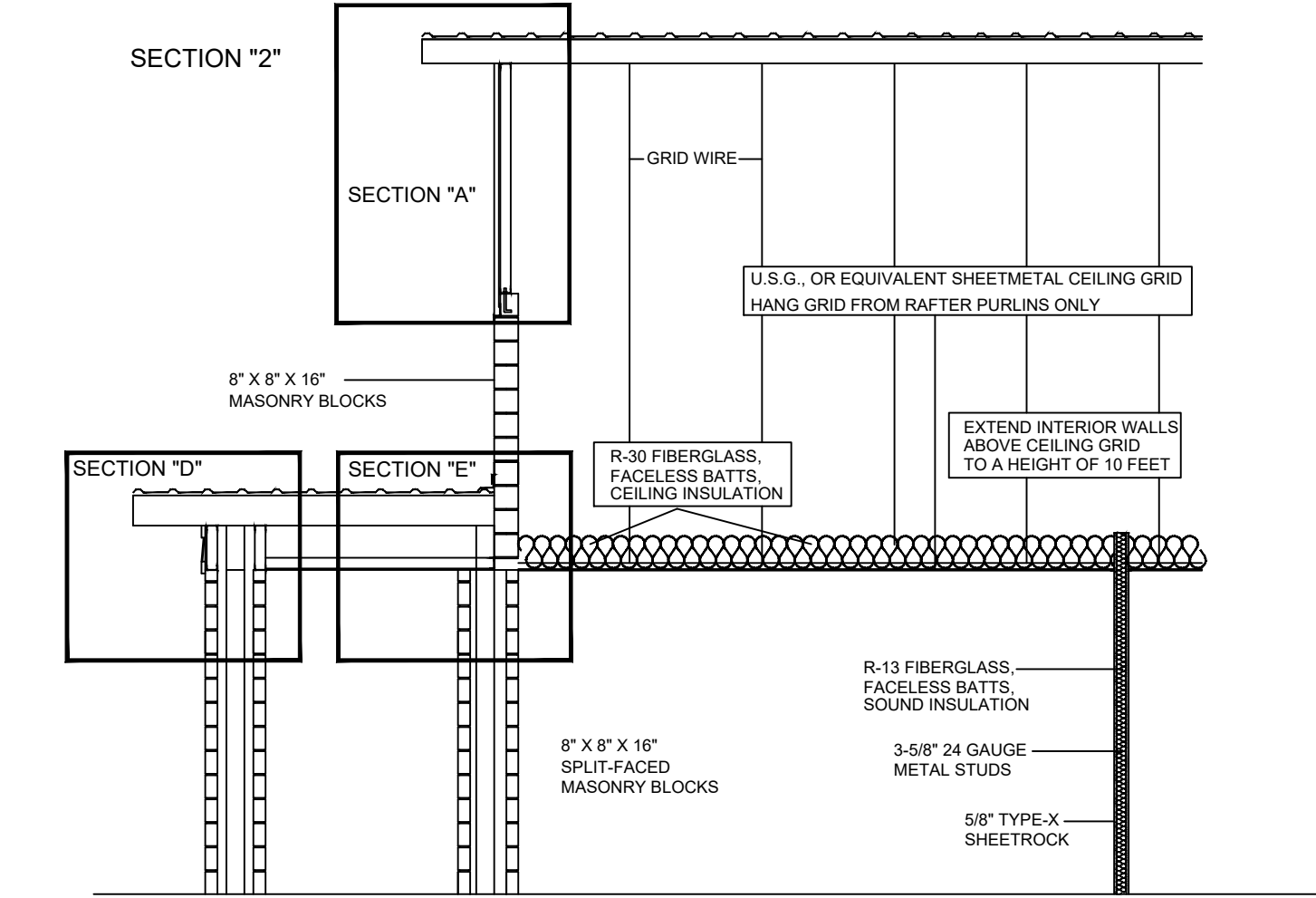
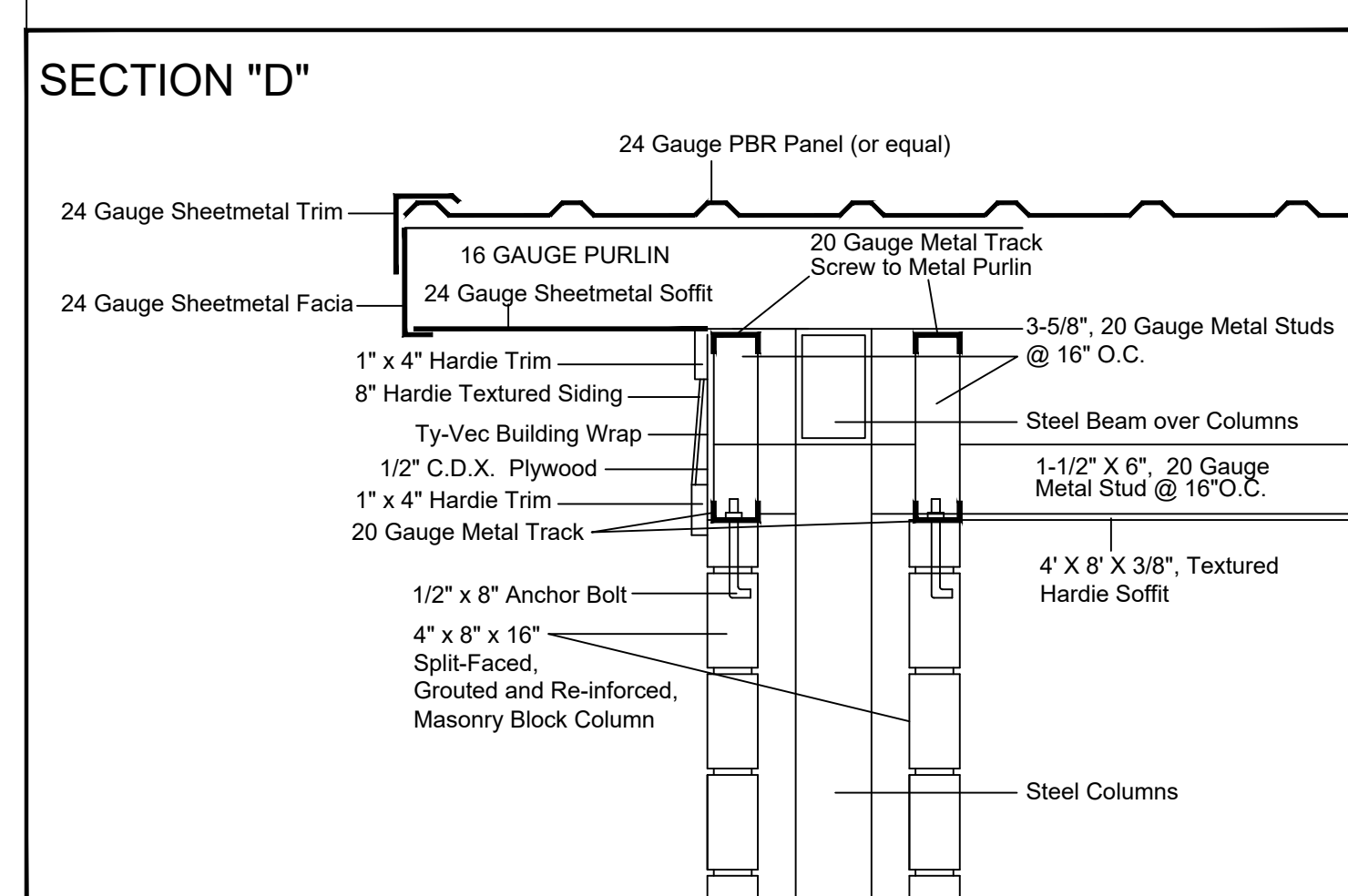
Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

SHEET 31

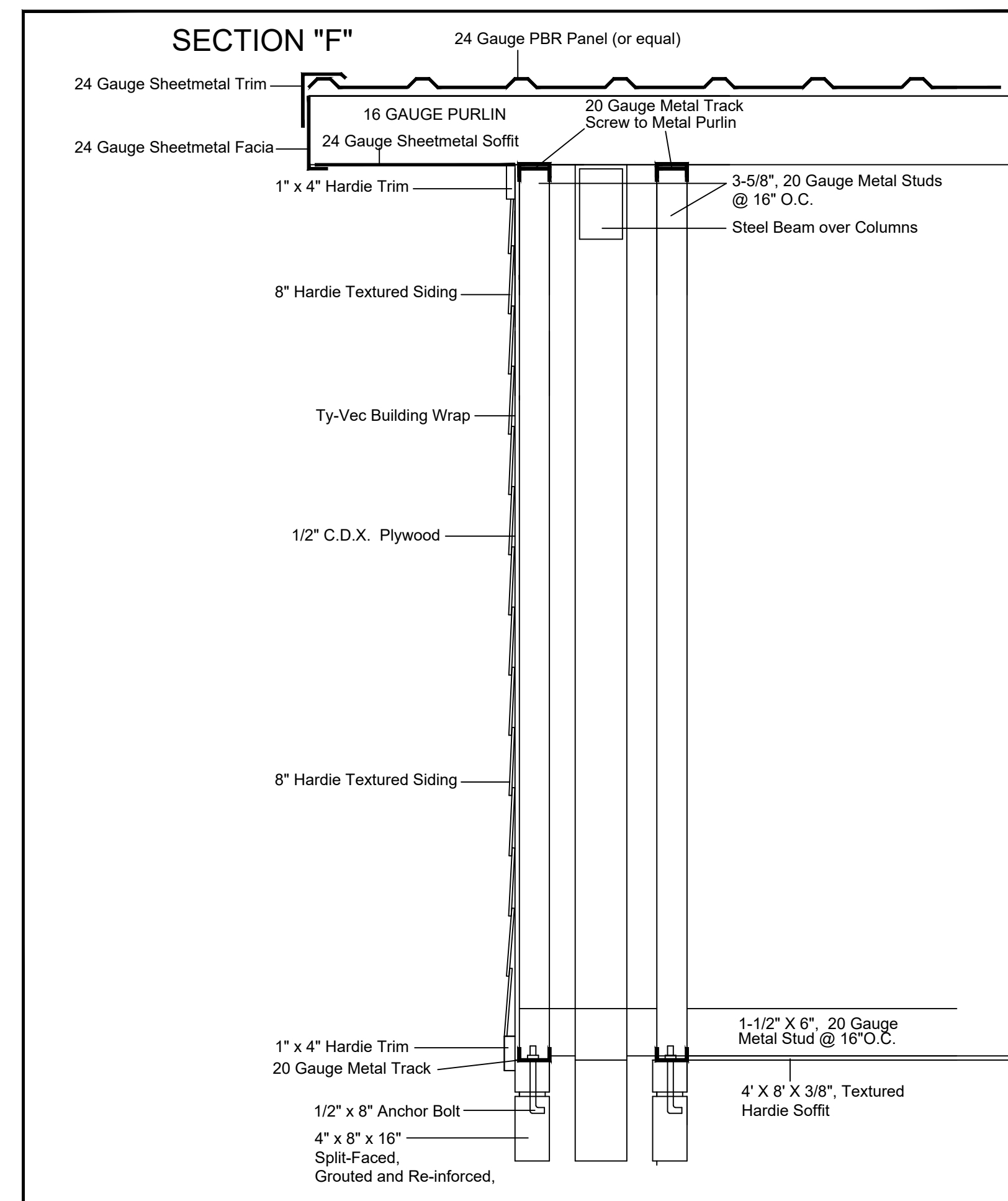
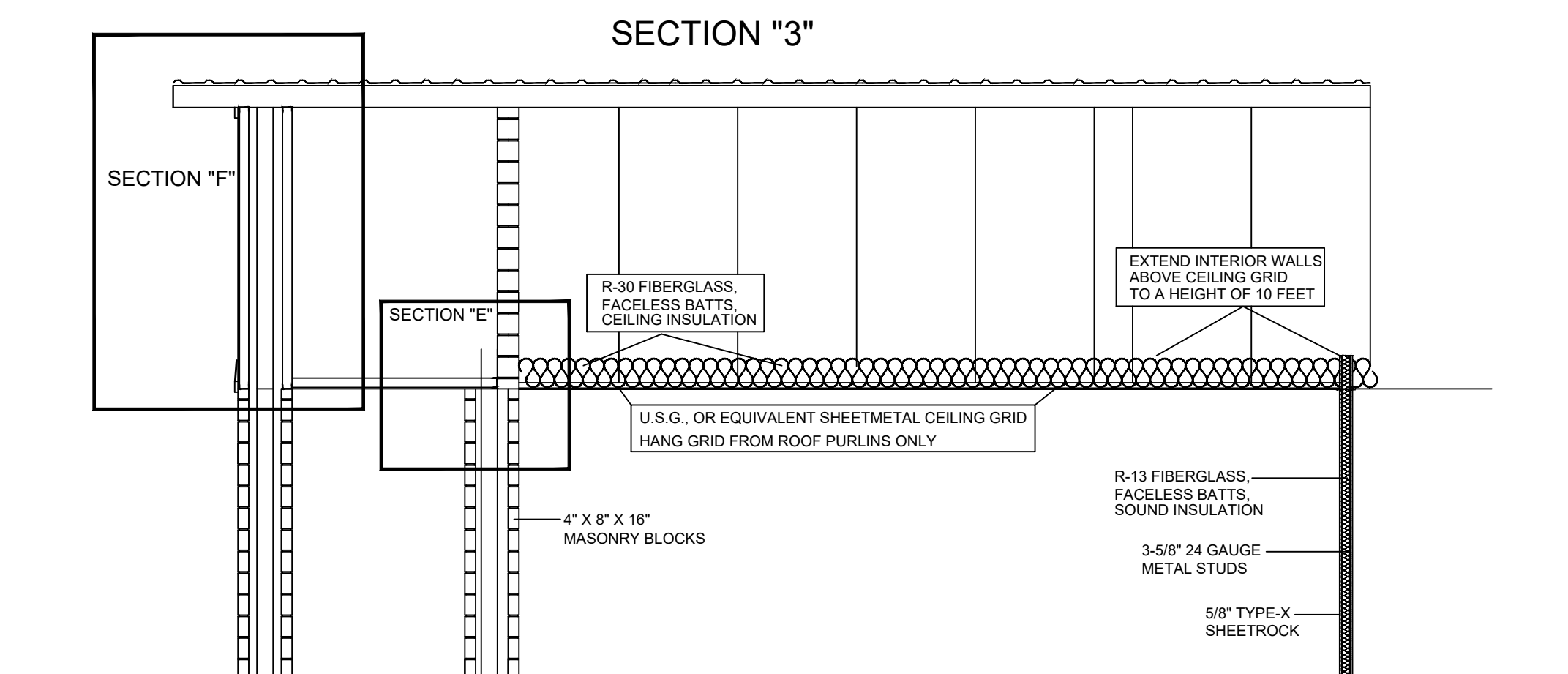
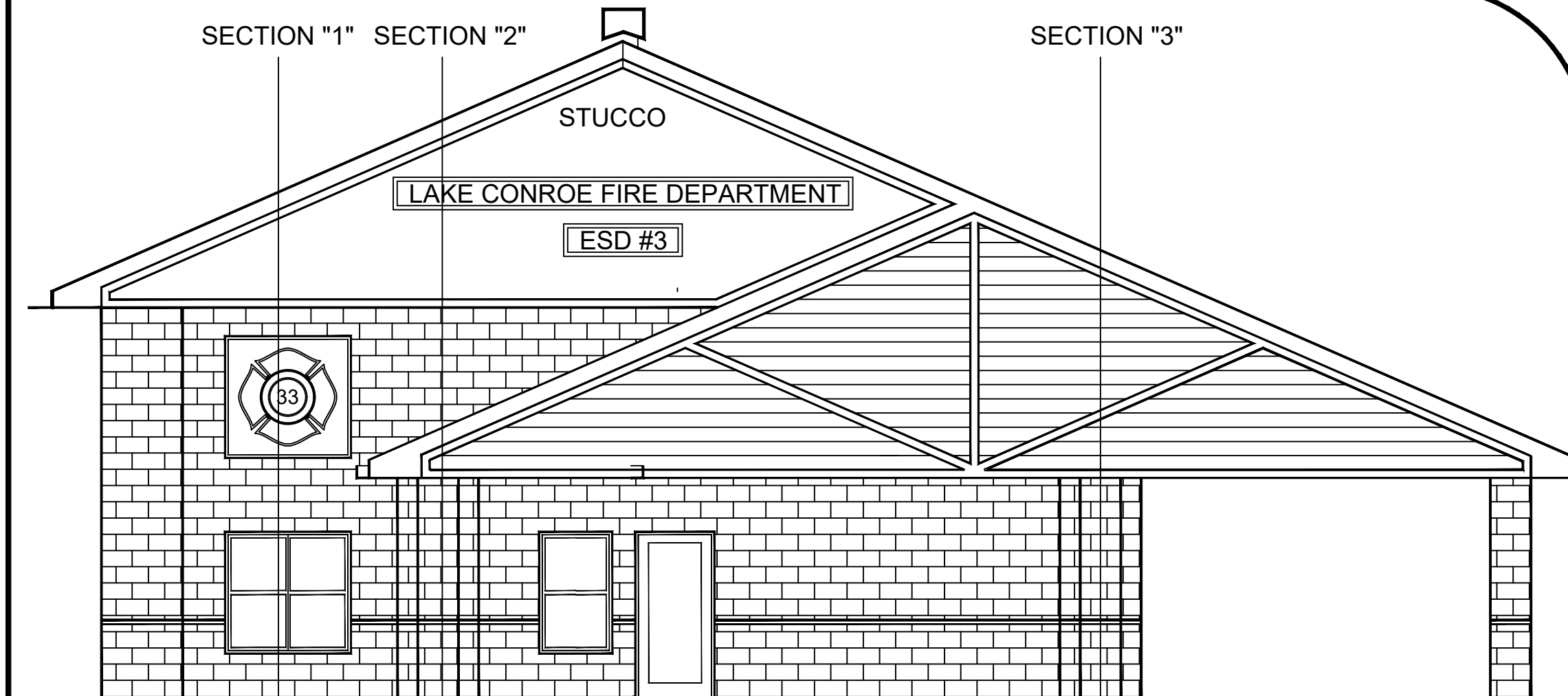
NO SCALE



NOTES; STEEL STUDS, EFIS, EXTERIOR HARDIE SIDING

1. The main structural framing members in these details are assumed as given and the methods of attachment to the members shown. Large deviations by the Building Supplier shall require new attachment details. Contact the Project Manager for modified drawings.
2. **STEEL EXTERIOR WALLS**
 - A. GENERAL: Exterior walls and porch soffits shall be framed using 20 gauge metal studs.
 - B. GABLE WALL FRAMING: Studs, bottom runners and header rails shall be made of 20 gauge galvanized steel, 3-5/8" in width and spaced at 16" O.C. Use Diertich Metal studs or equal.
 - Gable end walls shall be framed with the metal studs screwed to the bottom runner and the top track with two PK screws (one on each side of the stud). Bottom runner shall be glued and a 5/8" x 8" anchor bolt shall be installed in grouted masonry @ 32" O.C. The upper rails shall be securely attached to the purlins with self-tapping screws.
 - C. PATIO CEILING JOIST FRAMING: Joists and end plates acting as rim joists shall be made of 20 gauge C-Studs.
 - a. Steel Ceiling Joists @ the front porch shall be a Minimum 20 gauge, 6", C-Stud @ 16" O.C.
 - b. Steel Ceiling Joists @ the 14' wide side porch (Barbecue Area) shall be a Minimum of 20 gauge, 10", C-Stud @ 16" O.C.

				LAND AND SEA ENT., INC. SPECIFICATIONS		
				DRAWN BY JDE	SPECIFICATIONS	DATE 4/11/07
				CHECKED BY J.L.	DIVISION 5: METAL FRAMING	INDEX NO. 506
REV.	DATE	DESCRIPTION	APP.	DESIGNED BY		1



NO SCALE

- DIVISION 9; FINISHES INSULATION, CEILING GRID, INTERIOR GYPBOARD
1. LOCAL AND STATE CODES/ORDINANCES and GENERAL CONDITIONS OF CONTRACT shall be adhered to in all portions of the work Associated with the installation of all interior finishes.
2. GYPSUM INTERIOR WALLS
- A. GENERAL: Interior non-bearing wall shall be framed and sheetrocked to a height of 10 feet. The suspended ceiling shall be installed in the living area at a height of 9 feet and in the boy area at a height of 15'-6".
- All interior walls shall be insulated with faceless, R11, fiberglass insulation (use Owings Corning, Certainteed or equal)
- B. WALL FRAMING: Studs, bottom runners and header rails shall be made of 25 gauge galvanized steel, 3-5/8" in width, shall weight approximately .395plf, spaced at 16" O.C. Use Dietrich Metal studs or equal.
- All interior walls shall be insulated with faceless, R11, fiberglass insulation (use Owings Corning, Certainteed or equal)
- Interior walls shall be framed with the metal studs screwed to the bottom runner and the top track with two PK screws (one on each side of the stud). Bottom runner shall be glued and a Ranset fastner shall be applied at 32" O.C. The upper rail shall be securely cross-braced to ensure the interior wall remain straight during the construction and prior to the installation of the ceiling grid.
- The metal stud and drywall contractor is responsible for the installation of all backcup blocking for plumbing, cabinets and accessories.
3. GYPSUM WALLBOARD: Use 5/8" Type-X sheetrock throughout. (Use U.S. Gypsum or equal) For interior walls of Storage room and shower areas of bathrooms use Water Resistant, Type-X sheetrock.
- Interior walls shall be framed with the metal studs screwed to the bottom runner and the top track with two PK screws (one on each side of the stud). Sheetrock will then be applied to one side of the framed wall. All electrical, plumbing, telephone, Computers and misc. wiring shall be installed before sheetrock is applied to the other side of the wall.
- Drive all screw heads below the surface of the sheetrock and check that the board is snug to the stud. Install all sheetrock in a vertical position and verify that all edges are securely attached to a stud.
- All gypsum wallboard shall hve screw heads bedded with Joint Compound and all edges closet with U.S.G. Perf-A-Tape, or equal, and all edges closed with corner bead. All walls shall be taped and bedded to their full height. Where walls are exposed and will be painted, sand edges and bedding smooth and indiscernible, ready for texture and paint.

LAND AND SEA ENT., INC.				
SPECIFICATIONS				
DATE	DESCRIPTION	APPROVED BY	REVISION	DATE
REV.	DATE	DESCRIPTION	APPROVED BY	REVISION
				1

- DIVISION 9; TERRAZZO FLOORING SPECIFICATIONS
1. GENERAL: Provide interior Terrazzo and base in locations indicated on the approved plans. The Terrazzo base and finish coat shall have a nominal thickness of two inches and shall have a finished elevation level with the finished surface of the ceramic tile in the bathrooms.
2. MATERIALS;
- A. Portland Cement shall be ASTM C 150, Color white.
- B. Marble Chips
1. Size: shall conform with NTMA Gradation Standards.
2. Hardness: shall conform to ASTM C 241 Ha 10 Minimum.
3. 24-hour absorption rate shall not exceed 0.75%
4. Chips shall contain no deleterious or foreign materials.
5. Dust content shall be less than 1% by weight.
- C. Divider Strips shall be 18 gauge alloy of Zinc and set in the base at the appropriate height to allow for a thickness of 1/2" for the topping.
- D. Sealer;
1. pH factor between 7 and 10, where applicable.
2. Shall not discolor or amber.
3. Penetrating type specially prepared for use on Terrazzo.
4. Flash Point; ASTM D 56, 80 degrees Fahrenheit minimum.
3. Mixes;
- A. Terrazzo selection; Owner shall select color and design from Color palette provided by Contractor.
- B. Proportions;
- One 94 pound bag of white portland cement per 200-220 of marble chips, color pigment if required and sufficient potable water to produce a workable mix.
- C. Mixing for Topping; Mix marble chips, portland cement, color pigment as required. Add water and mix to a uniform workable consistency.
4. Installation;
- A. Install control joints above control joints in concrete floor and install divider strips in agreed on pattern. Adjust height of strip for top of Terrazzo to plane with tile floor.
- B. Placing Terrazzo;
- Saturate base concrete with water and place Terraazzo mixture in panels to top of strips. Seeding with additional chips is optional. Roll and compact surface until excess water has been extracted. Trowel to a uniform finish.
- C. Curing; Cure until topping develops sufficient strenght to prevent lifting or pulling of terrazzo chips during grinding.
- D. Finishing; Grind with 24 or finer grit stones and follow initial grind with 80 grit or finer stones. Cleanse floor with clean water and rinse. Remove excess rinse water and machine or hand apply grout, taking care to fill all voids. Grout may be left on terrazzo until all messy work of Project is completed. For final grinding use 80 grit or finer stones. Upon completion, terrazzo shall show a minimum of 70% marble chips. Wash all surfaces with a neutral cleaner. Rinse with clean water and allow surface to dry. Apply sealer in accordance with manufacturer's directions. Contractor shall protect finished floor.

LAND AND SEA ENT., INC.				
SPECIFICATIONS				
DATE	DESCRIPTION	APPROVED BY	REVISION	DATE
REV.	DATE	DESCRIPTION	APPROVED BY	REVISION
				2

- DIVISION 9; CERAMIC FLOOR AND WALL TILE SPECIFICATIONS
1. GENERAL: Provide Ceramic tile at walls and floors in locations indicated on the approved plans. The ceramic tile floor finish shall have a nominal thickness of 5/16", but shall be levelled to have a finished elevation level with the finished surface of the Terrazzo in the hallway.
2. MATERIALS;
- A. Manufacturers; Dal-Tile Corp, Custom Building Products or equal.
- B. Ceramic Tile;
1. Size: Nominal 6"x6" on walls and 8"x8" on floor, verify with Owner.
2. Thickness: Nominal thickness 5/16", verify with Owner.
3. Body Type of Tile; Selected by Owner from samples provided by Contractor.
- C. Setting Material;
1. Pre-mixed, Latex-Portland cement mortar (Thin Set) for concrete floor. Use Custom Building Products Thin Set or Equal.
2. Pre-mixed, Acrylic-Latex wall-tile adhesive for application on gypboard. Use Custom Building Products Acrylic, pre-mixed wall adhesive or Equal.
- D. Grout;
1. Pre-mixed, Latex-Portland cement, sanded grout for floor tile. Use Custom Building Products Pre-Mixed, sanded grout or Equal.
2. Pre-mixed, Latex-Portland cement, non-sanded grout for wall tile. Use Custom Building Products Pre-Mixed, non-sanded grout or Equal.
3. Installation;
- A. Comply with ANSI Standard Specifications for Ceramic Tile Installation. Comply with Manufacturer's instructions and recommendations.
- B. Lay tile in grid pattern with aligned grids. Lay tile to provide uniform joint width and minimize cutting. Contact Owner for approval for laying pattern.
- C. Grout and cure, clean and protect.

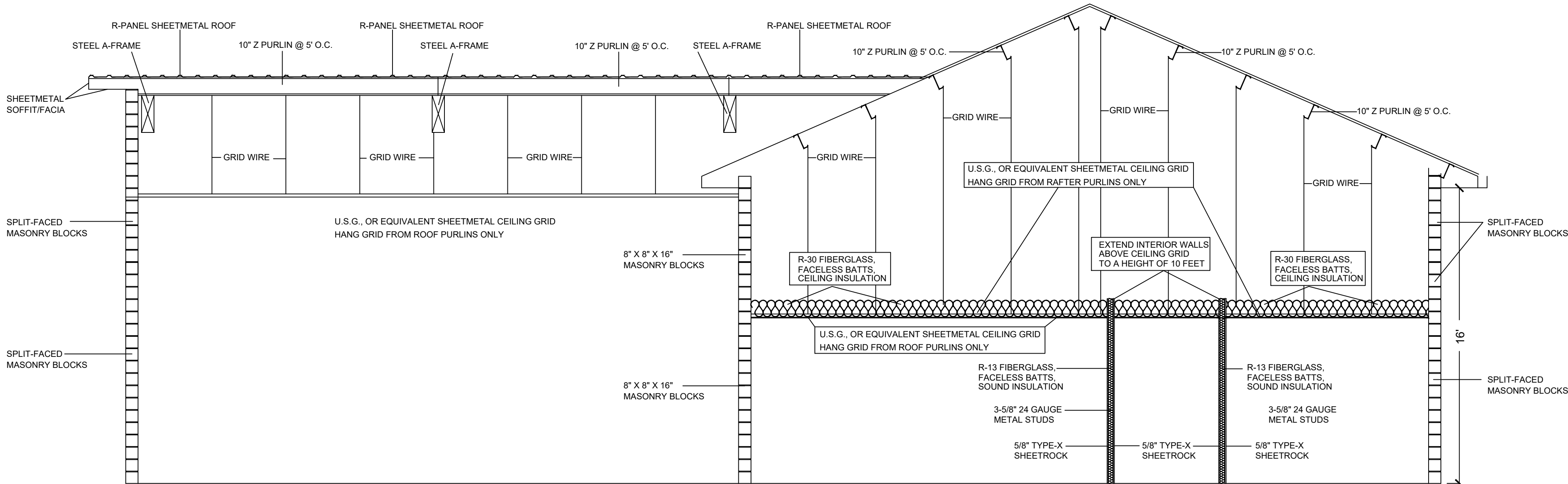
LAND AND SEA ENT., INC.				
SPECIFICATIONS				
DATE	DESCRIPTION	APPROVED BY	REVISION	DATE
REV.	DATE	DESCRIPTION	APPROVED BY	REVISION
				3

- DIVISION 9; INDOOR CARPETING SPECIFICATIONS
1. GENERAL: Provide Indoor Carpeting on floors in locations indicated on the the approved plans. The Carpeting shall be installed on a manufacturer approved carpet pad.
2. MATERIALS;
- A. Manufacturers; DuPont Industries, Dur-A-Flex, Inc. or equal.
- B. Requirements;
1. Pile fiber shall be 100% Nylon.
2. Carpet shall be Manufactured with durable stain inhibitor.
3. Width of carpeting in rolls shall be 12'.
4. Finished carpet shall be 26 Oz. per yard or identified as equal.
5. Carpeting shall have 8.5 stitches per inch.
6. Carpet backing shall be polypropylene or equal.
7. The Carpet shall comply with the following fire codes;
- a. Methanamine pill test (ASTM D 2859)
- b. Floor Radiant panel test; (ASTM L 648) Class 1
- c. NBS smoke chamber test; less than 450.
- C. Padding;
1. Pad shall be nominal thickness of 1/2" and shall conform to Carpet Manufacturer's requirements.
3. Installation;
- A. Examination;
1. Verify that surfaces are smooth and and ready to receive the work.
2. Verify that floor ph. does not exceed 9. A higher PH requires corrective measures.
3. Verify that moisture vapor transmission does not exceed 3 lbs. per 1,000 sq. ft. per 24 hours.
- B. Lay-Out and Planning;
1. Proper layout and planning must bae completed prior to any cutting of carpeting.
2. Locate seams in areas of least traffic. Minimize seams as per Manufacturer's recommendations.
- C. Execution;
1. Carpet shall be installed in accordance with Manufacturer's instructions.
2. Carpet shall be installed in compliance with CRI 104.
3. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, built-in cabinets, edging and thresholds.

LAND AND SEA ENT., INC.				
SPECIFICATIONS				
DATE	DESCRIPTION	APPROVED BY	REVISION	DATE
REV.	DATE	DESCRIPTION	APPROVED BY	REVISION
				4

- DIVISION 9: TEXTURE AND PAINT
1. GENERAL: This work is to occur after all the taping, sealing, floating, and sanding has been finished on the gypboard walls, wall extensions, and hard ceilings, and after new door frames are in place and primed.
2. TEXTURE; Use USG or equal, in sealed units, with printed application instructions. The material shall be applied with a spray rig, with the finish to meet with the approval of the Owner.
- Check surfaces to be textured, repairing any scars or blemishes, removing any grease or smudges, and checking all screwed connections for snugness. Make up samples of different textures, let dry and secure Owner's inspection and approval prior to spraying texture.
3. PAINTING; Texture over gypboard; Use Primer, SWP ProMar 200 Latex Wall Primer, cover with two coats ProMar 200 Latex Semi-Gloss Enamel; Color shall be selected by Owner from Sherwin Williams Color Chart provide by Contractor.
- WOOD TRIM/ INTERIOR WOOD SHELIVING/ NEW WOODWORK; Use SWP ProMar 200 Alkyd Undercoater, 2 coats of ProMar SGE or equal; Color shall be selected by Owner from Sherwin Williams Color Chart provided by the Contractor.
- METAL FRAMES AND DOORS; Use S-W ProCryl Universal Acrylic Primer, B66-S10, 2 coats of S-W- Pro Classic Interior Alkyd Semi-Gloss 13234 Series. Color shall be selected by Owner from Sherwin Williams Color Chart provided by the Contractor.
- OUTSIDE HARDIE SIDING AND TRIM;
- First Coat; S-W-Prep-rite Wall and Wood Primer/Undercoater B49W2.
- Second and Third Coats; S-W- Duratone Home Series, Semi-Gloss, A98-100 Series. Color shall be selected by Owner from Sherwin Williams Color Chart provided by the Contractor.
- INTERIOR MASONRY WALL IN APPARATUS BAYS;
- First Coat; Where an Alkali resistant primer is required use S-W PrepRite Masonry Primer.
- Second and third Coat; S-W-Macropoxy 646 Fast Cure Epoxy, B58-600 Series. Color shall be selected by Owner from Sherwin Williams Color Chart provided by the Contractor.
- FLOORS IN APPARATUS BAYS;
- Floors in Apparatus Bays shall be coated with a minimum of two coats of clear Epoxy or Polyurethane sealer. Use Sherwin-Williams or Equal.
- Contractor shall Contact Project Manager prior to Application of clear sealer on Apparatus Bay Floors.
- APPLICATION; Clean surfaces of all foreign materials, fill any cracks and defects, sand smooth and apply primer coat or finish coat as per manufacturer's printed directions. Apply by Spray Gun or brush in well ventilated areas, so that the overspray will not harm any of the Contract work. Wear appropriate breathing masks when spray painting, and protect the eyes with goggles. Mask all door finish hardware, including hinges which are not meant to be painted. Protect freshly painted work.

LAND AND SEA ENT., INC.				
SPECIFICATIONS				
DATE	DESCRIPTION	APPROVED BY	REVISION	DATE
REV.	DATE	DESCRIPTION	APPROVED BY	REVISION
				5



CROSS-SECTION THRU FIRE-STATION

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet J, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Construction Specifications #3

FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

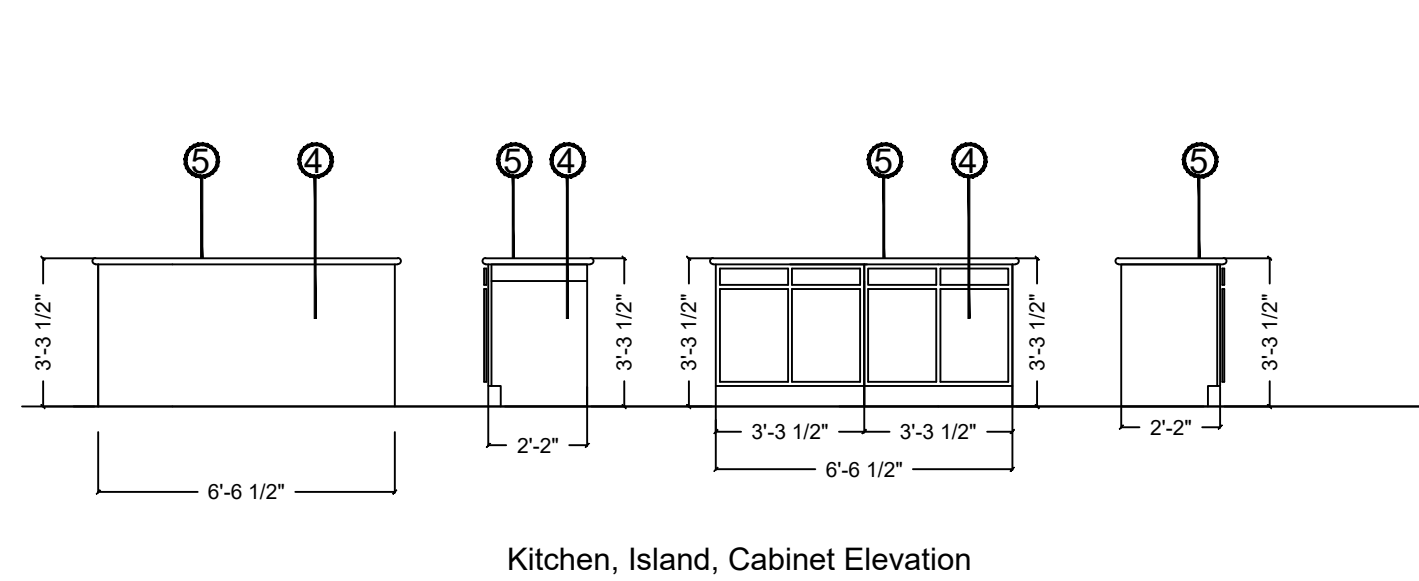
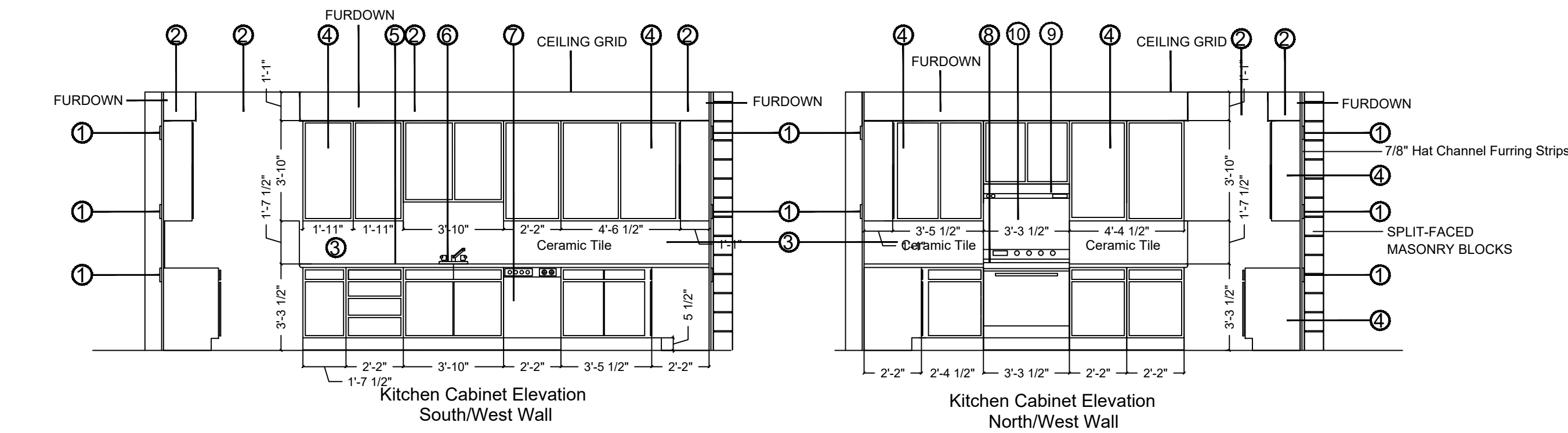
Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

SHEET 33

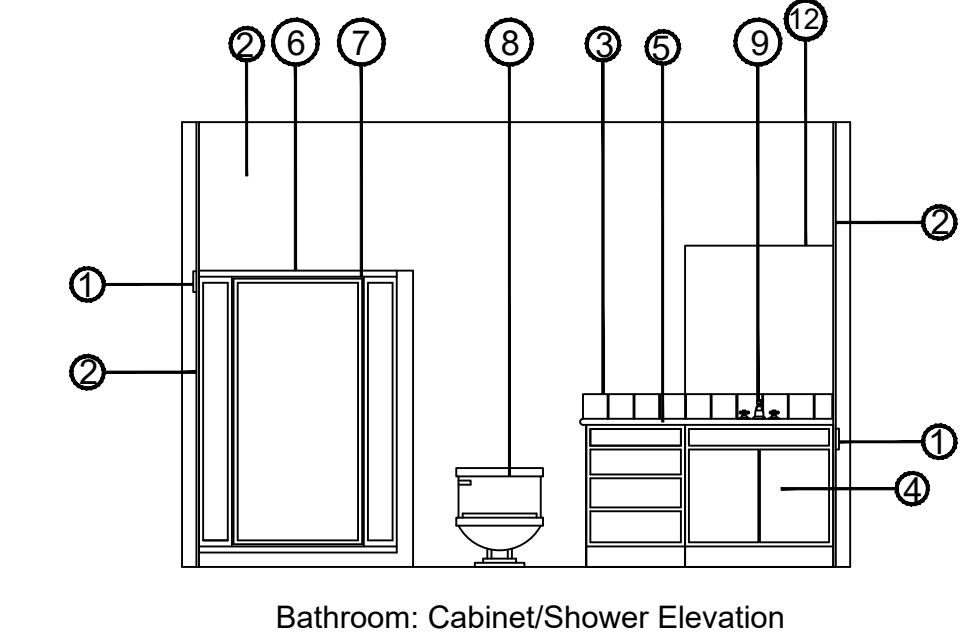
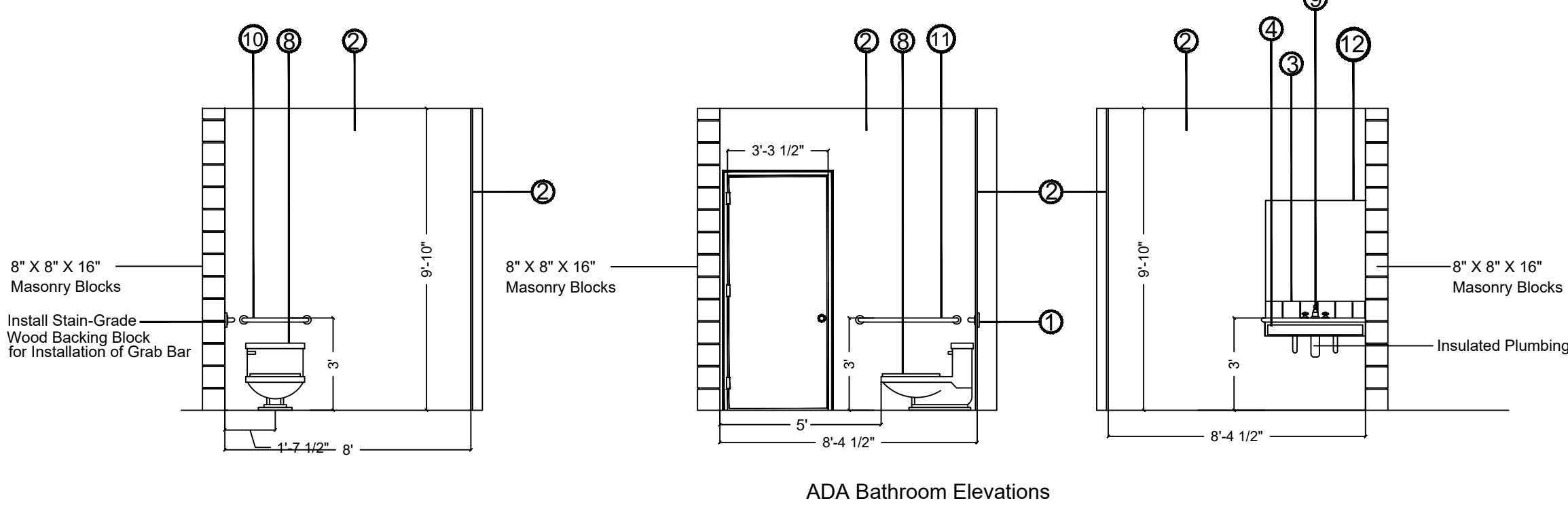
NO SCALE

Kitchen Cabinet Elevations



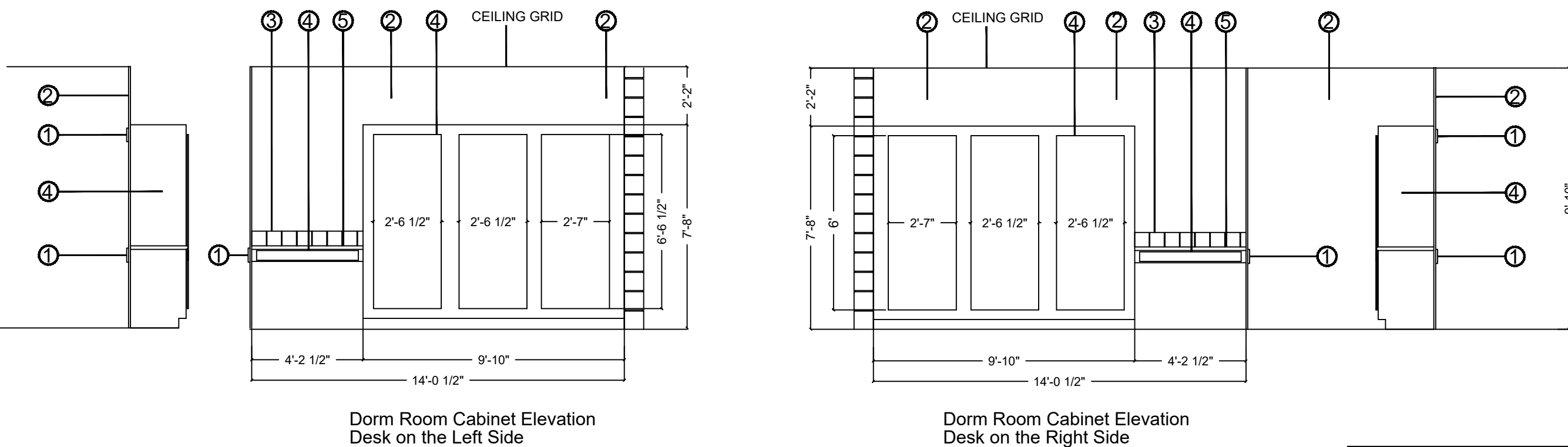
- LEGEND:
- 3/4" Plywood Cabinet Cleat
 - 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs or Furring Strips
 - Ceramic Tile
 - Shop-Built, Melamine Cabinets
 - Plastic Laminate Face-frames and Doors
 - Full Overlay Euro-Style Doors
 - Full-Mortised, Euro-Style, Concealed Hinges
 - See Sheet 36, Hardware Schedule for Specifications
 - Silestone Countertop with Full Bullnose at Exposed Edges
 - Kitchen Faucet: See Sheet 24 for Specifications
 - Dishwasher: Furnished by Owner
 - Gas-Fired Stove (Furnished by Owner)
 - Fume Hood: Furnished by Owner
 - Stainless Steel Backsplash behind Stove

Bathroom Elevations

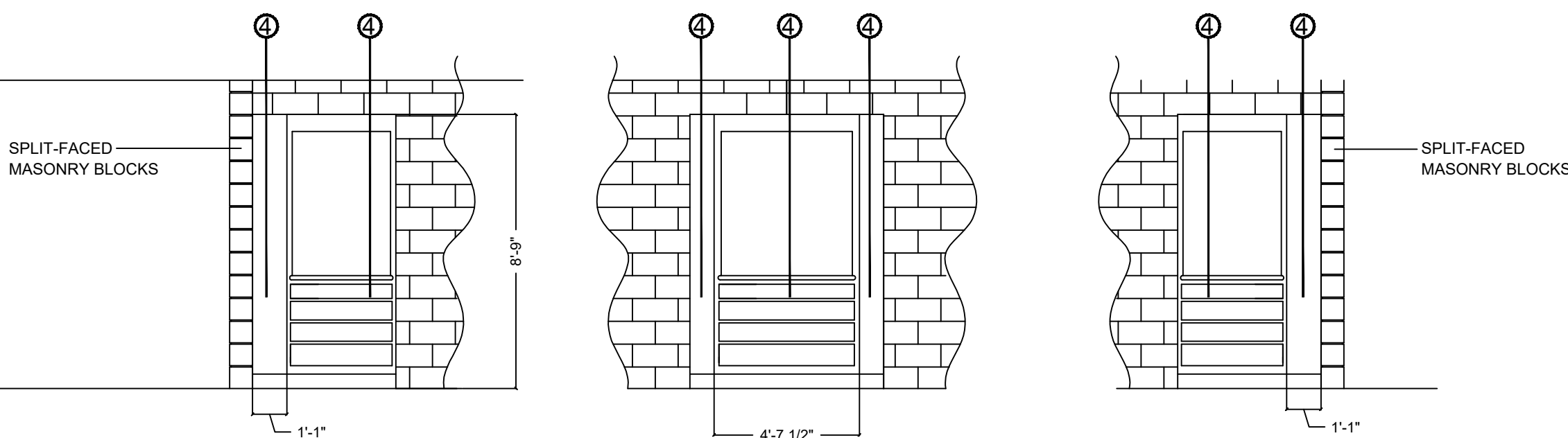


- LEGEND:
- 3/4" Plywood Cabinet Cleat
 - 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs
 - Ceramic Tile
 - Shop-Built, Melamine Cabinets
 - Plastic Laminate Face-frames and Doors
 - Full Overlay Euro-Style Doors
 - Full-Mortised, Euro-Style, Concealed Hinges
 - See Sheet 36, Hardware Schedule for Specifications
 - Silestone Countertop with Full Bullnose at Exposed Edges
 - Acrylic Shower Stall
 - Bronzed-Framed, Tempered-Glass Shower Door
 - Porcelain Water Closet (See Sheet 24 for Specifications)
 - Bathroom Faucet (See Sheet 24 for Specifications)
 - 1-1/2" x 24" Stainless Steel Grabbar
 - 1-1/2" x 36" Stainless Steel Grabbar
 - 36" x 36" Rimless Mirror

Dorm Room; Locker/Desk Elevations

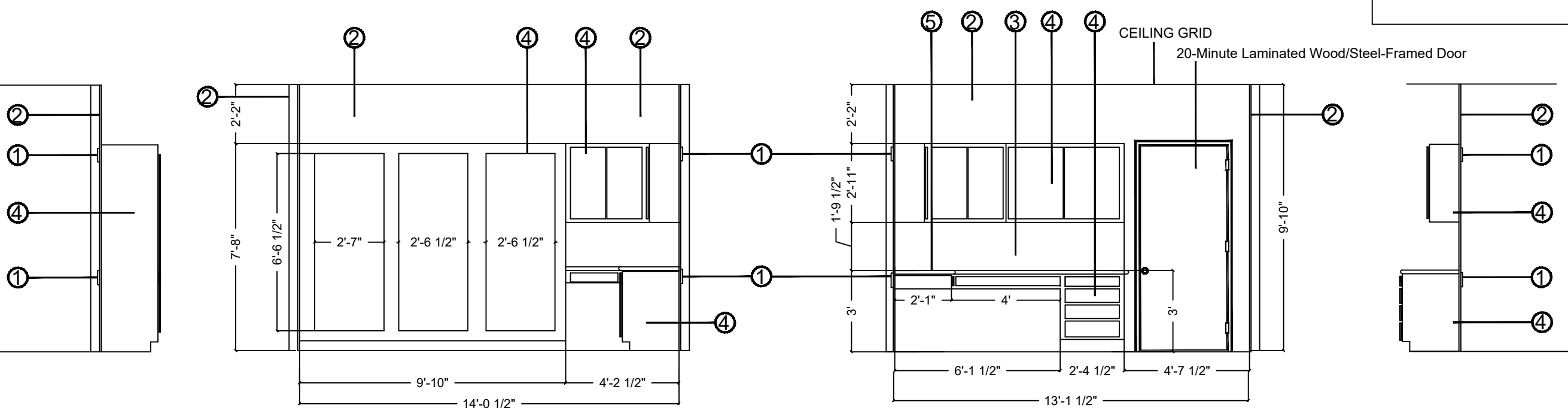


Lounge Area: Television Cabinet Elevations

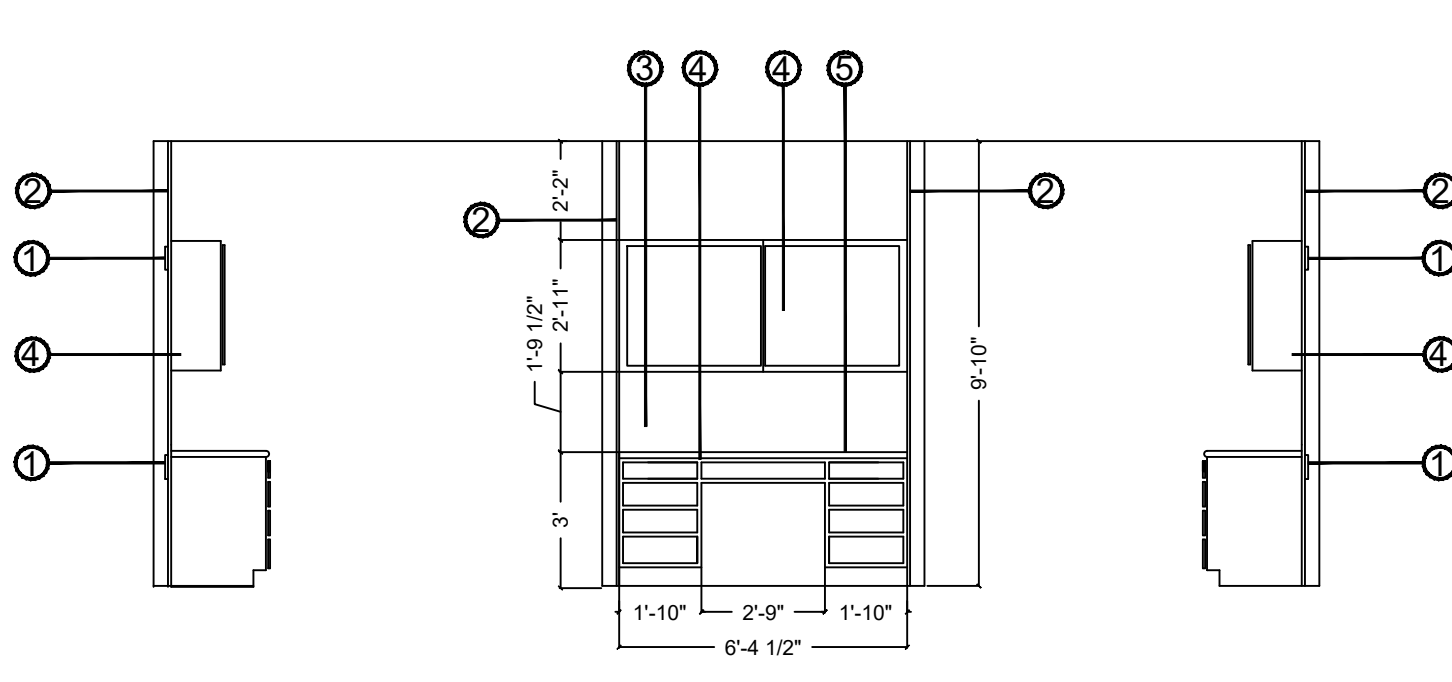


- LEGEND:
- 3/4" Plywood Cabinet Cleat
 - 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs
 - Ceramic Tile
 - Shop-Built, Melamine Cabinets
 - Plastic Laminate Face-frames and Doors
 - Full Overlay Euro-Style Doors
 - Full-Mortised, Euro-Style, Concealed Hinges
 - See Sheet 36 Hardware Schedule for Specifications
 - Silestone Countertop with Full Bullnose at Exposed Edges

Office/Dorm Room; Locker/Desk Elevations



Computer Desk Area Elevations



MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

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ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Interior Elevations-1
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3
15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

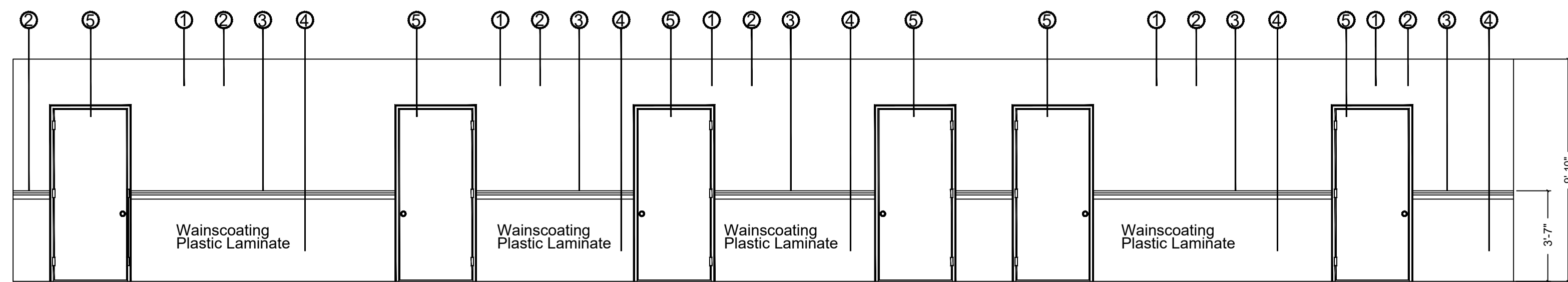
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Plans Drawn by:
Joseph C. Fournier
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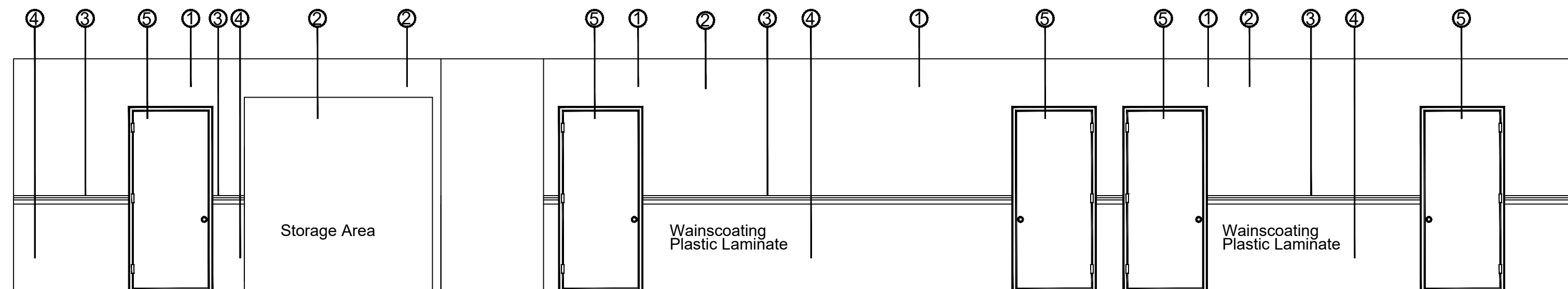
Plans Reviewed by:
Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 34

NO SCALE

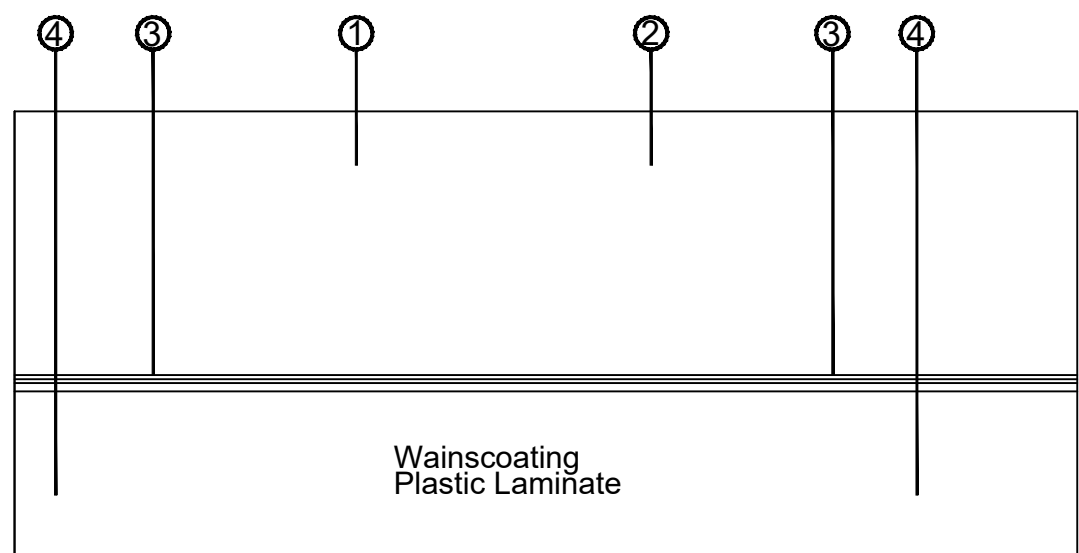


Elevation; North-West Main Hallway

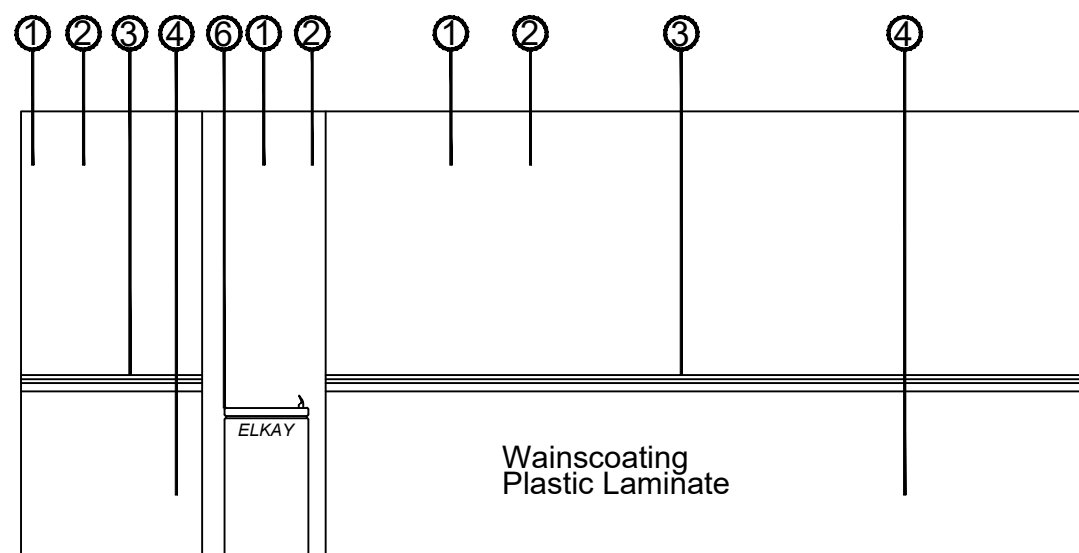


Elevation; South-East Main Hallway

- LEGEND;
- 1. Finish: Semi-Gloss Latex over Orange Peel Texture
 - 2. 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs
 - 3. Chairrail: Tri-Supply 1-3/4" x 4-5/8" Mantel Mould #936-432
 - 4. Vertical Laminate Wainscoating
 - 5. Steel-Framed, Plastic Laminate over Solid core Wood, 20-Minute Rated Door

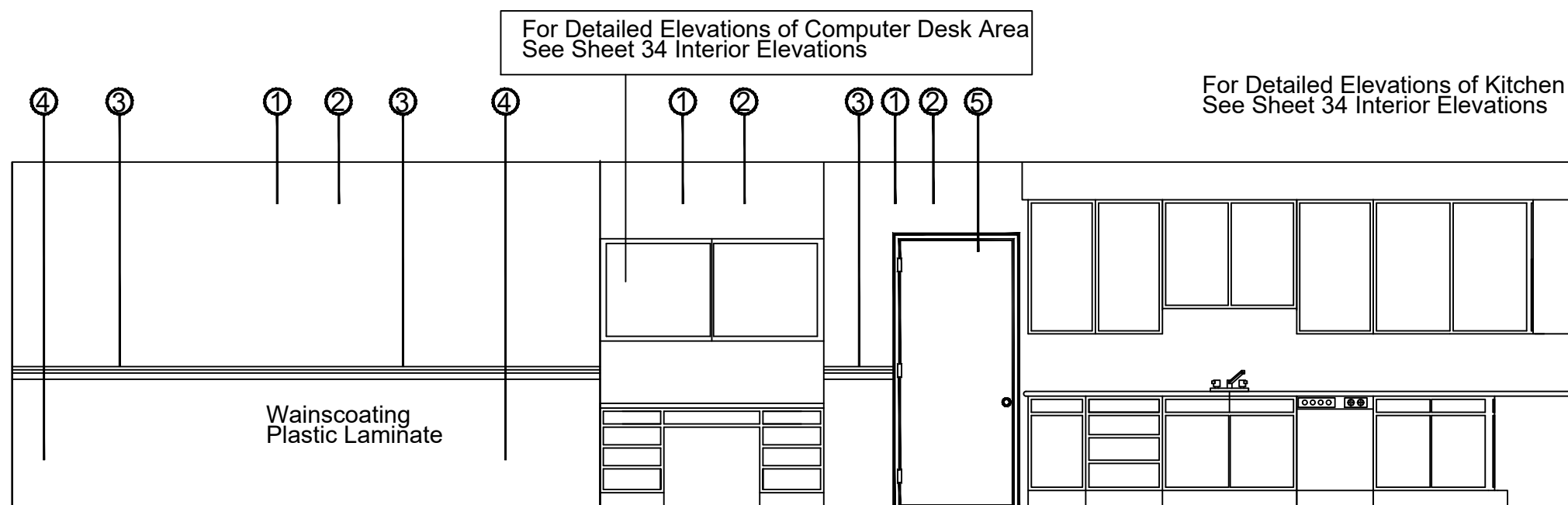


Elevation; South-West Hallway to Bay Area

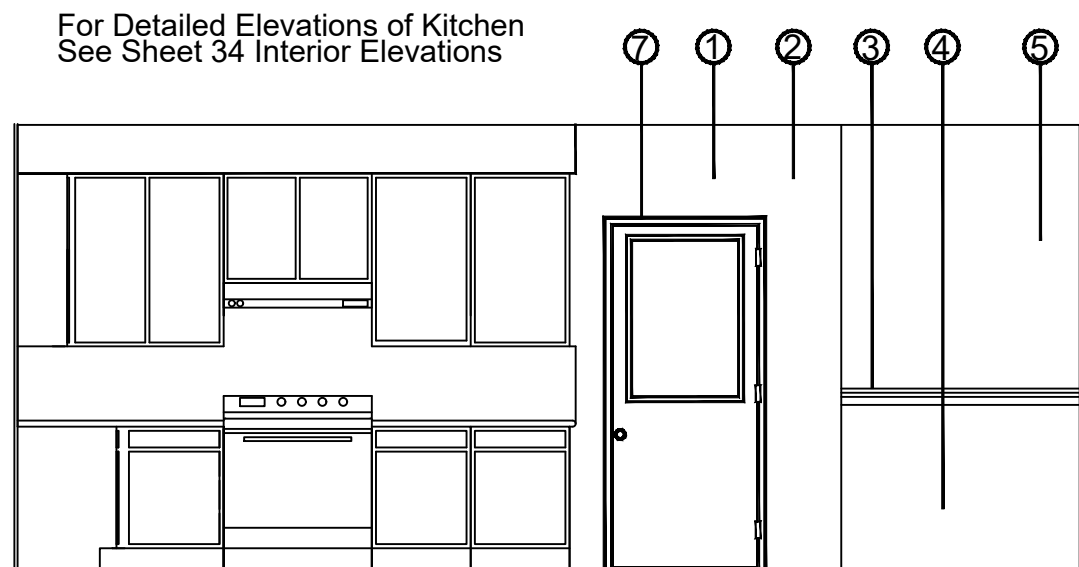


Elevation; South-East Main Hallway

- LEGEND;
- 1. Finish: Semi-Gloss Latex over Orange Peel Texture
 - 2. 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs
 - 3. Chairrail: Tri-Supply 1-3/4" x 4-5/8" Mantel Mould #936-432
 - 4. Vertical Laminate Wainscoating
 - 5. Steel-Framed, Plastic Laminate over Solid core Wood, 20-Minute Rated Door
 - 6. Water Fountain

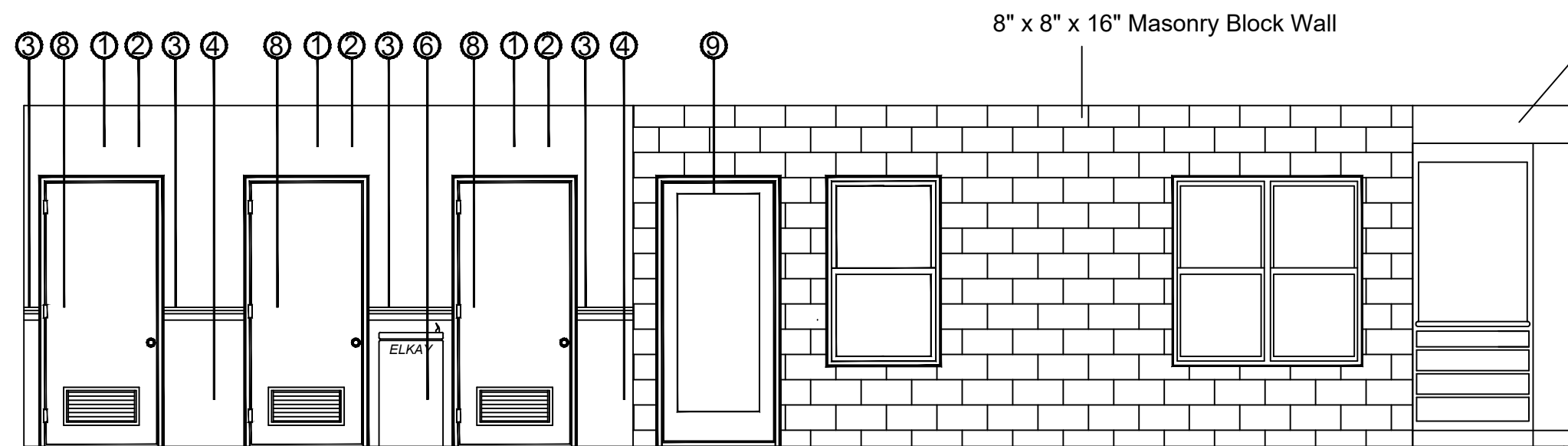


Elevation; Entrance/Computer Desk/Kitchen South-West Wall

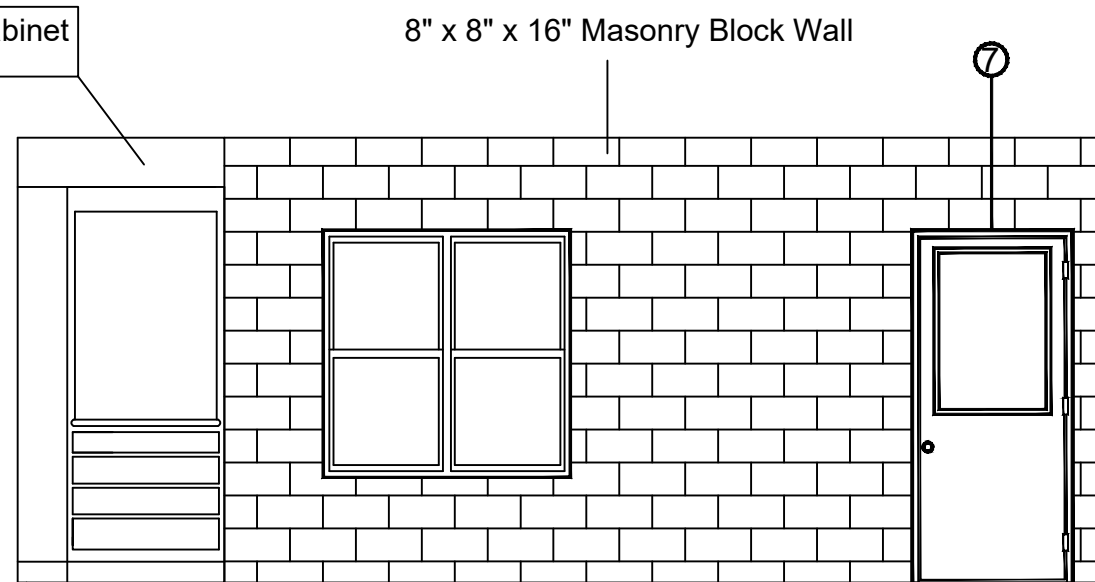


Elevation; Entrance/Kitchen North-West Wall

- LEGEND;
- 1. Finish: Semi-Gloss Latex over Orange Peel Texture
 - 2. 5/8", Type-X, Sheetrock over 25 Gauge Metal Studs
 - 3. Chairrail: Tri-Supply 1-3/4" x 4-5/8" Mantel Mould #936-432
 - 4. Vertical Laminate Wainscoating
 - 5. Steel-Framed, Plastic Laminate over Solid Core Wood, 20-Minute Rated Door
 - 6. Water Fountain
 - 7. Steel-Framed, Insulated Steel Exterior Door
 - 8. Steel-Framed, Plastic Laminate over Solid Core Wood, Louvered Door
 - 9. Aluminum-Framed Commercial Entry Door



Elevation; Entrance/Pantires/TV Cabinet North-East Wall



Elevation; Entrance/TV Cabinet South-East Wall

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

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MONTGOMERY, TEXAS
77356
PH. 936-588-2222

Project Design
Project Engineering
Project Management

ASCENTRUST, LLC.
16920 KUYKENDAHL
SUITE 200
HOUSTON, TX. 77068
PH. 936-827-9944

Plans Drawn by:

Joseph C. Fournier
B.Sc.E.E., M.Sc.E.E.
PH. 936-827-9944

Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 35

NO SCALE

DIVISION 6: INTERIOR FINISH CARPENTRY SPECIFICATIONS

1. SUMMARY: Furnish and install Architectural woodwork as shown on Sheet 34 and Sheet 35 of this plan, including the following:
- A. Laminated-clad decorative cabinets including Melamine Interiors.
 - B. Thermoset decorative overlays.
 - C. Solid Surface Materials (Silestone or equal)
 - D. Hardware
2. DELIVERY, STORAGE AND HANDLING:
- A. Protect woodwork during transit, delivery, storage and handling to prevent damage, soilage and deterioration.
 - B. Do not deliver woodwork until painting and similar operations that could damage, soil or deteriorate woodwork have been completed in installation areas. Store only in areas with appropriate environmental conditions.
3. PROJECT CONDITIONS:
- A. ENVIRONMENTAL CONDITIONS: Do not deliver or install woodwork until building is enclosed, wet-work is completed and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction.
 - B. FIELD MEASUREMENTS: Where woodwork is indicated to be fitted to other construction, check actual dimensions of other construction by accurate field measurements before fabrication.
 - C. CO-ORDINATION: Co-ordinate sizes and location of framing, blocking, furring re-inforcement and other related units of work to ensure that interior architectural woodwork can be supported and installed as indicated.
4. MATERIALS:
- A. HIGH PRESSURE DECORATIVE LAMINATE: Provide laminate complying with NEMA LD 3. Provide high-pressure laminate by: Formica Corporation, Nevermar Corp., Ploness Plastic Corp., Ralph Wilson Plastic Co. or equal.
 - B. ADHESIVE FOR PLASTIC LAMINATE: Use only oil-based contact cement.
 - C. THERMOSET DECORATIVE OVERLAY: Decorative surface of thermally fused polyester or melamine-impregnated web, bonded to specified substrate and complying with ALA 1992.
 - D. SOLID SURFACE MATERIAL: Homogeneous solid sheets of acrylic plastic resin filled with Quartz crystals. Comply with ISSFA-2. Use products by: Formica Corp., Carnia, DuPont, or Silestone by Cosentino or equal.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 6:		4/2/07	
REVISIONS		FINISH CARPENTRY		REV. NO.	
REV.		DATE		DESCRIPTION	
1		4/2/07		1	

DIVISION 6: INTERIOR FINISH CARPENTRY SPECIFICATIONS

5. CABINET HARDWARE:
- A. Drawer Slides; Provide 75 Lbs., roller bearing, side mounted, lever release, self-closing, zinc plated, cold-rolled steel Drawer slides. Use Knappe & Vogt; KV-1300 Series or equal.
 - B. CABINET HINGES; Provide commercial grade, full overlay, (95-107"), clip-on, face-frame mounted, concealed, Euro-Style Cabinet Hinges. Ues Blum Inc. hinges or equal.
 - C. CABINET PULLS; Provide Stanley commercial grade cabinet pulls or equal. Owner's Representative shall select drawer pulls from a Chart provided by Contractor.
 - D. CABINET LOCKS; Provide polished chrome disc-cam locks. Provide locks at each Dorm Locker, Office Desk and Computer Desk. Provide American Lock ADCL7814KAWWG-C346A Disc Cam or equal.
6. FABRICATION:
- A. Fabricate woodwork to dimensions indicated on Sheet 21. In case of conflicts contact the Project Manager.
 - B. Complete fabrication, including assembly, finishing and hardware installation, before shipment to the Project. Disassemble components as necessary for shipment and installation.
 - C. Shop-cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work and similar items.
 - D. Furnish and deliver to the Fire Station all hardware not shop installed, complete with templates, keys, screws and installation Instructions (if necessary).
7. INSTALLATION:
- A. Install all woodwork to comply with AWI Section 1700.
 - B. Install wookwork plumb, level, true, and straight with no distortions. Shim as required with concealed shims. Install to tolerances of 1/8 inch. in 96-inches for plumb and level.
 - C. Anchor woodwork to anchors or blocking in or directly attached to substrate. Secure to blocking with countersunk, concealed fasteners and blind nailing as required for complete installation.
 - D. CABINETS; Install without distortion so that doors and drawers fit openings properly and are accurately alligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

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REV.		DATE		DESCRIPTION	
1		4/2/07		2	

DIVISION 13; SHELVING

- A. Provide High Capacity Boltless shelving units in storage areas shown on Sheet 21 Floor Plan.
1. Provide 14 Gauge, rigid steel structure without sway braces.
 2. Outside corner Posts shall be L-Shaped and intermediate Posts shall be T-Shaped.
 3. All posts shall be punched @ 1-1/2" intervals to provide adjustment to the shelving.
 4. Furnish and install 3/4" Melamine Shelving in L-Shaped steel shelf runners. Owner shall select color of Melamine from color chart provided by Contractor.
 5. Shelving units shall be 84" High and 18" Deep and 36" Wide.
 6. Provide a total of 5 shelves per unit.
 7. Use tennsco, Edsal or equal.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 13: SHELVING		4/2/07	
REVISIONS		DOOR HARDWARE		REV. NO.	
REV.		DATE		DESCRIPTION	
1		4/2/07		1	

MONTGOMERY COUNTY
Emergency Services District #3

PROPOSED PROJECT
ON
HONEA EGYPT

LEGAL DESCRIPTION

Lot 3, Block 3 of Montgomery Trace, Section Four (4), a subdivision situated in Thomas Curry Survey, A-136 in Montgomery County, Texas, according to the map or plat thereof recorded in Cabinet 1, Sheet 132 of the Map Records of Montgomery County, Texas.

ADDRESS
4731 HONEA EGYPT
MONTGOMERY, TEXAS
77356

Hardware
FOR FIRE STATION #33
ON HONEA EGYPT ROAD

OWNER
MONTGOMERY COUNTY
Emergency Services District #3

15663 Hwy 105 West
MONTGOMERY, TEXAS
77356
PH. 936-588-2222

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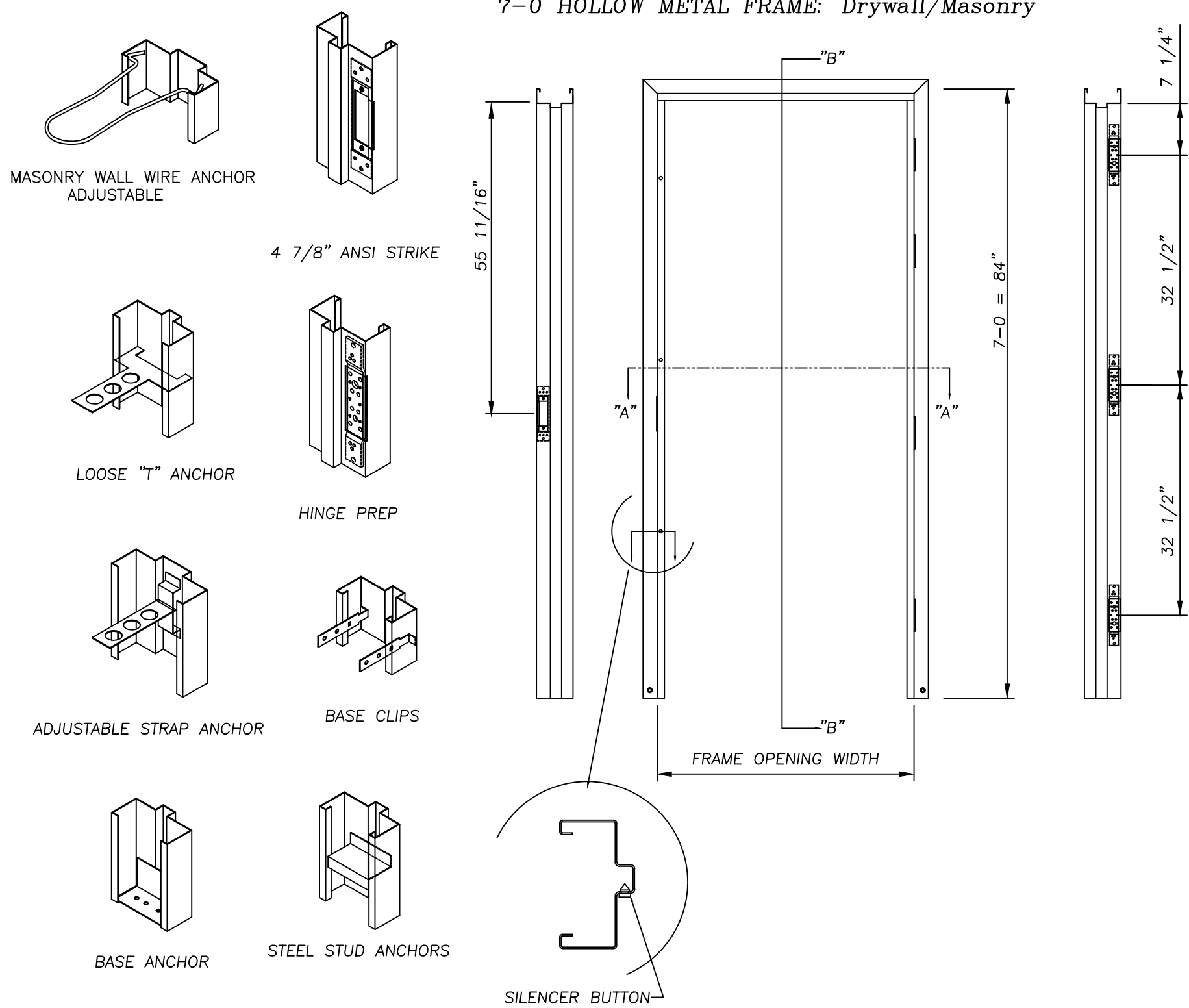
Plans Reviewed by:

Jeff Long P.E.
15 Brimstone Court
Woodlands, Texas

SHEET 36

NO SCALE

7-0 HOLLOW METAL FRAME: Drywall/Masonry



SINGLE DOOR DIMENSIONS

	4-0	3-6	3-0	2-10	2-8	2-6	2-4	2-0
DRYWALL	50"	44"	38"	36"	34"	32"	30"	26"
ROUGH OPENING WIDTH	48"	42"	36"	34"	32"	30"	28"	24"
FRAME WIDTH	47 3/4"	41 3/4"	35 3/4"	33 3/4"	31 3/4"	29 3/4"	27 3/4"	23 3/4"
DOOR WIDTH								

INTERIOR FINISH SCHEDULE

ROOM NAME	FLOOR		WALLS			CEILING		
	FINISH	BASE	MATERIAL	FINISH	PAINT	MATERIAL	FINISH	HEIGHT
Lounge Area	1	7	9 10 10	N/A 12 13	15 N/A 15	18	19	9'
Kitchen Area	1	7	9 10 10	N/A 12 13	15 N/A 15	18	19	9'
Hallways	1	7	9 10 10	N/A 12 13	15 N/A 15	18	19	9'
Bathrooms	2	8	9 10 11	N/A 13 13	16 15 15	10	13/15	9'
Dorm Rooms	6	7	9 10	N/A 13	16 15	18	19	9'
Mechanical Room	3	7	9 10	N/A 13	16 15	10	13/15	9'
Storage Room (Hall)	2	7	10 13	15 15	18	19	9'	
Storage Room (Rear)	3	7	9 10	N/A 13	16 15	18	19	9'
Exercise Room	3	7	9 10	N/A 13	16 15	18	19	9'
Equipment Room	3	7	9 9	N/A 12	15 15	10	13/15	9'
Apparatus Bays	4	N/A	9	N/A	17	18	20	15.5'

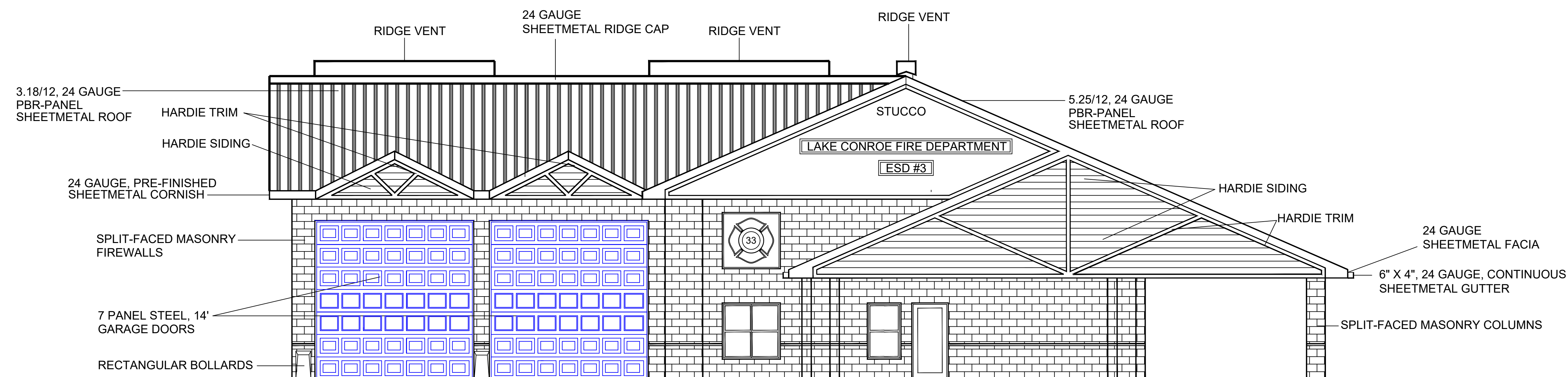
LEGEND

1. TERRAZZO
2. CERAMIC TILES
3. SEALED CONCRETE
4. COLORED SEALED CONCRETE
5. VCT TILES
6. Commercial Carpet
7. 4" VINYL COVE BASE
8. CERAMIC TILE BASE
9. MASONRY BLOCK WALL
10. 5/8" Type-X, GYP. PANEL
11. 5/8" Type-X, Water Resistant Gyp. Panel
12. Plastic Laminat Wainscoting
13. Orange Peel Texture
14. Eggshell Latex Wall Paint
15. Semi-Gloss Latex Enamel
16. Simi-Gloss, Oil-Based Enamel
17. Epoxy Masonry Paint
18. 2' X 2' Ceiling Tiles
19. Random Fissure Acoustical Tiles
20. Vinyl-Clad Gyp. Panel

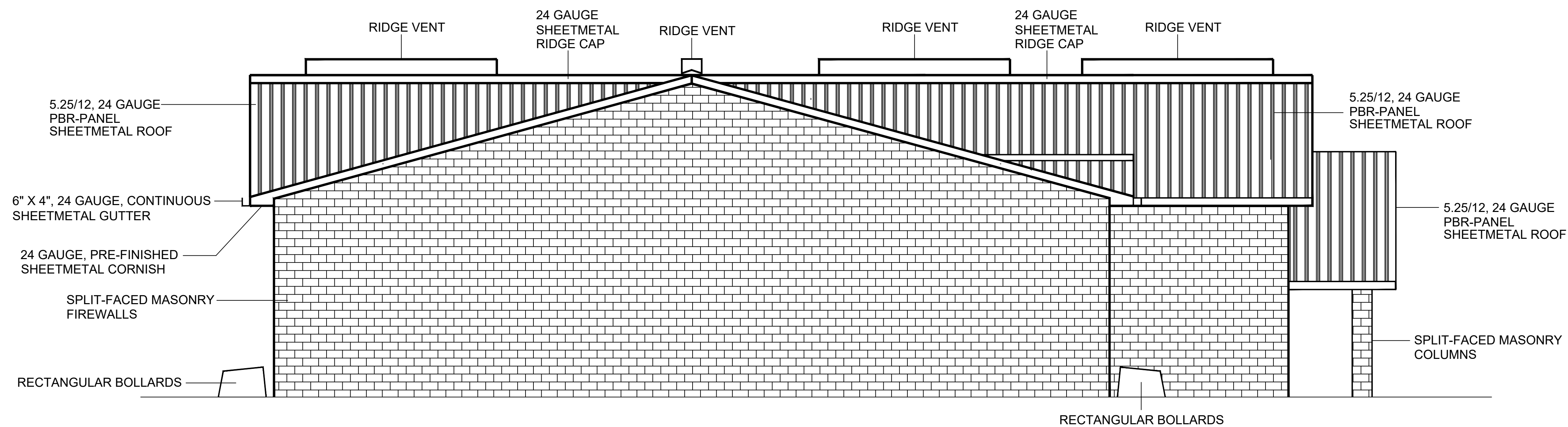
HARDWARE SPECIFICATIONS

- DOOR HARDWARE;
- A. HARDWARE FOR STOREFRONT DOOR;
- Door supplier shall provide Commercial type lock, keyed on the outsid and thumb lock on the interior only.
- B. DOOR/KNOBS
- Provide 6-Pin brass, C-Keyed Cylinder, Keyed 5-Pin, Satin Chrome finish, Non-Handed steel lockset, Zinc Dichromate plating. Meets ANSI/BHMA A156.2 Series 4000.
- PRIVACY; Push Button Locking
- Use Schlage (Falcon) Mn-A40S ORB 626 or equal.
- ADA PRIVACY; Push Button Locking, Lever Operating, Meet ADA Accessibility guidelines.
- Use Schlage (Falcon) Mn-8301-D 626 or equal.
- STOREROOM; Outside Knob is fixed. Entrance by key only. Inside knob always unlocked.
- Use Schlage (Falcon) Mn-A8PD ORB 626 or equal.
- ENTRANCE; Deadlocking latchbolt is operated by either knob when unlocked. Outside knob may be locked by depressing or turning inside turn piece. Latchbolt operated by key when in locked position.
- Use Schlage (Falcon) Mn-A5PD ORB 626 or equal.
- PRIVACY; Push Button Locking
- Use Schlage (Falcon) Mn-A40S ORB 626 or equal.
- C. AUTOMATIC DOOR CLOSERS;
- Provide surface-mounted closers, corrosion and rust resistant, aluminum construction, ADA compliant, meets ANSI Grade 1 Specification, usable with hinged or pivot-mount, interior or exterior doors and Commercial Storefront; Use DOR-O-MATIC, Medium duty, MN SC81FULL HW/PA AL or equal.

LAND AND SEA ENT., INC. SPECIFICATIONS					
DRAWN BY		SPECIFICATIONS		DATE	
DESIGNED BY		DIVISION 6:		4/2/07	
REVISIONS		DOOR HARDWARE		REV. NO.	
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FRONT ELEVATION



SOUTH-EAST ELEVATION

MONTGOMERY COUNTY
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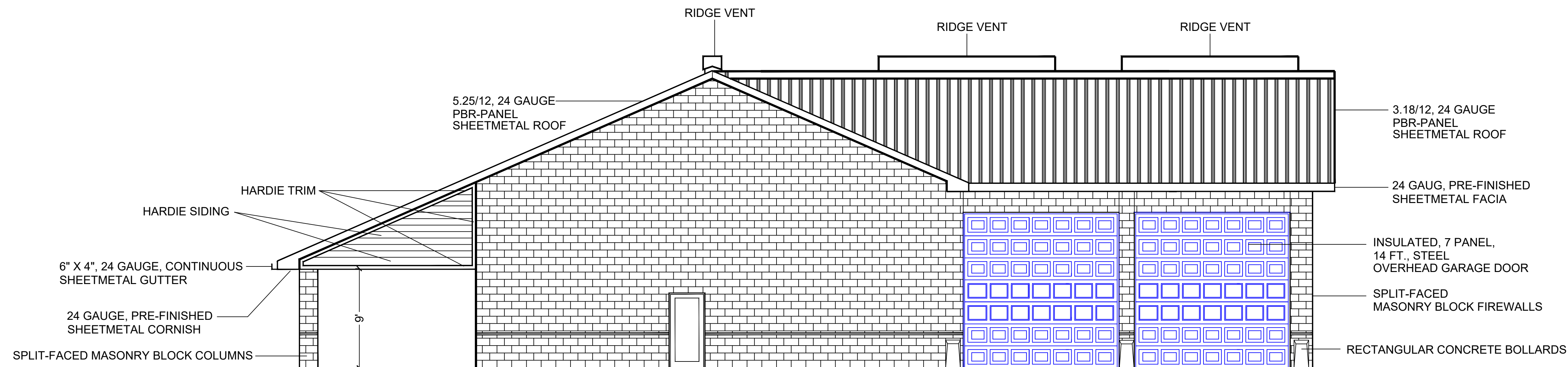
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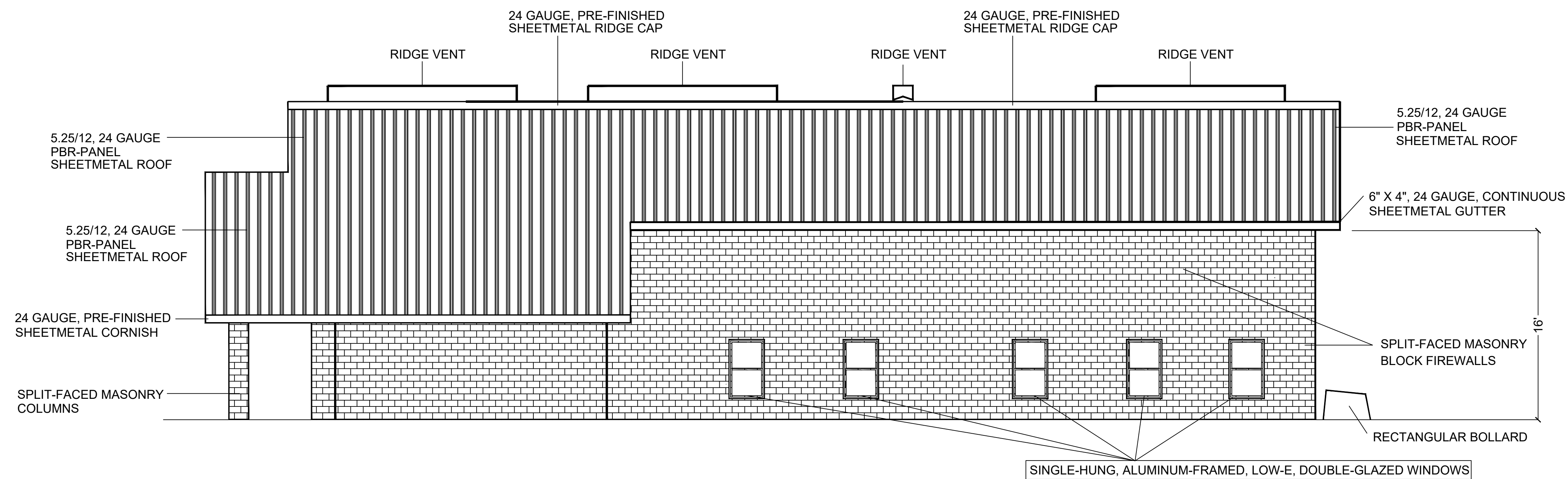
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SHEET 37

NO SCALE



REAR ELEVATION



NORTH-EAST ELEVATION

MONTGOMERY COUNTY
Emergency Services District #3
PROPOSED PROJECT
ON
HONEA EGYPT

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SHEET 38

NO SCALE