



City of San Antonio  
**TRANSPORTATION AND CAPITAL IMPROVEMENTS**

**ADDENDUM No. 2**

**FORMAL REQUEST FOR COMPETITIVE SEALED PROPOSAL (RFCSP)**

**PROJECT NAME:** FIRE STATION # 32 REPLACEMENT, Project No. 20-00015  
**DATE:** March 3, 2015

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This addendum is separated into sections for convenience; however, all contractors, subcontractors, material men, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their proposal package.

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**I. CLARIFICATIONS AND ANSWERS TO QUESTIONS RECEIVED**

The RFCSP has been revised to reflect the correct scoring criteria. Please see revised version, dated 3-3-15

**Question:** Will PrimeLink be used for this project?

**Response:** Yes

**Question:** Is the price proposal form required on the CD copy?

**Response:** No, the price proposal form is not required on the CD copy. The price proposal form is only required in the original submittal.

**Question:** Is the Subcontractor/Supplier Utilization Plan form required on the CD copy?

**Response:** No, the Subcontractor/Supplier Utilization Plan is only required in the original submittal.

**Question:** At the pre-proposal conference, the Discretionary Contracts Disclosure Form was discussed pertaining to subcontractors and the need to include their documents at bid time. Please consider a period of time (24-48 hours) after the submittal of proposals to gather their information and submit as it may not be readily available.

**Response:** Yes. If the Prime is recommended for contract award, the City may request these forms from the subcontractors at that time. Therefore, discretionary forms are not required to be submitted by subcontractors at the time of the bid opening.

**Question:** Is an underslab vapor barrier required under the building foundation?

**Response:** Yes, 15 mil vapor barrier is required under the entire building slab. Refer to wall sections on Sheets A8.2, A8.3, and A8.4. Refer to specification Section 072601- Under Slab Vapor Barrier for additional information.

**Please see the following for additional clarifications/revisions and answers to technical questions:**

Date: March 2nd, 2015  
Project No. 1219

**ADDENDUM NO. 02**

To the drawings and specifications for:  
Fire Station 32  
4839 Charles Katz Drive,  
San Antonio, Texas

Beaty Palmer Architects, Inc.  
110 Broadway, Suite 600  
San Antonio, Texas 78205

**ARCHITECTURAL DRAWINGS:**

- Item 2.1** Sheet LS1 has been added to construction drawing set as required for DSD permitting comments. LS1 added to Index of drawings on sheet A1.1.
- Item 2.2** Allowance No. 5 updated to read as follows: Include the sum of twenty thousand dollars (\$20,000.00) for owner's convenience. Refer to updated sheet A1.1 Seal dated 03.02.15& Updated Specifications section 012100 – Allowances.
- Item 2.3** Millwork color legend updated to include HVP-1 (hardwood veneer plywood). Refer to updated sheet A1.2 Seal dated 03.02.15. Kitchen and Dayroom millwork is to include hardwood veneer plywood cabinet. Refer to updated Room Finish Schedule on A1.2.
- Item 2.4** Laundry [124] floor finish updated from VCT to resinous flooring. Floor drain added adjacent to Washer/Dryer. Refer to updated sheets A4.2 & P101 Seal dated 03.02.15.
- Item 2.5** Two 24" Towel bars added at Fire Bay & EMS wash areas. Refer to updated sheet A8.1 Seal dated 03.02.15.

**MEP DRAWINGS:**

- Item 2.6** IT sheet IT404 as indicated on the drawing index has been added to the construction drawing package. Refer to attached drawing sheet IT404 seal dated 02.10.15.
- Item 2.7** See attached Addendum letter for details of revisions to MEP drawings.

**Questions from Bidders:**

- 01** **Question:** Building Pad Preparation Alternate states a 50% Granular Select Fill and 50% select fill. Can these materials be mixed or do they have to be layered?  
**Response:** These will be layered. The select fill will be at the bottom and the granular select fill beneath the floor slab.
- 02** **Question:** Section 017700 - Closeout Procedures makes reference to a Section 013233 Photographic Documentation, but I am unable to find this section throughout the rest of the specs. Will this project require photos?

**Response:** Photographic Documentation is not required.

- 03 **Question:** Please provide location of the electrical service entrance (Detail 1/E601) on the overall site utility plan sheet C-2. Its location is not noted.

**Response:** Refer to revised Electrical drawing E101, keynote No. 9 for reference to the Electrical Service Entrance. Please see attached revised Electrical & Plumbing drawings from CNG Engineering.

- 04 **Question:** I cannot find any dimensioning between column lines and the building on A3.1, A3.2 and A3.3. There is no match line between A3.2 and A3.3. The only place that we can tie the building together is from the Structural Drawings, which are dimensioned from column lines.

**Response:** Refer to structural drawings for column spacing dimensions. Refer to Architectural Plan details on Sheet A8.5 for dimensions between building envelope components and structural grids.

- 05 **Question:** In Section 074113 – Standing Seam Metal Roof Panels, page 2 & 3 – 2.2 Roof Panel Section – it states in paragraph B., that the SSMR panel needs to have a mechanical seamed seam, which is done with a mechanical seamer. The next page it references the basis of design as Berridge Cee Lock, which is a snap lock seam, and is seamed manually with a hand tool. Is a mechanical seam or snap lock panel required?

**Response:** The basis of the design is Berridge Cee-Lock standing seam metal roofing system. Snap-Lock panels are the desired.

- 06 **Question:** Sheet A1.1 Schedule of Alternates, B (Alternate 2) Pedestrian Flasher Equipment references solid surface options. Please clarify the correct description for the base bid and alternate pertaining to the Pedestrian Flasher Equipment (same occurs in spec section 012300).

**Response:** The updated title for this alternate is "Plastic Laminate Counters" – Refer to updated sheet A1.1 Seal dated 03.02.15 & Specifications Section 012300 – Alternates.

- 07 **Question:** Will the structured cabling contractor need to install the speakers, or even cabling for them? One of the IT drawings has speaker layouts, but the specifications don't say anything on the execution.

**Response:** Speaker referenced is part of the Fire Station Alerting System (Phoenix System) as designed by USDD. The Fire Station Alerting System shall be part of this contract. The general contractor under this contract will be responsible for the purchase and installation of the Fire Station Alerting System. Please refer to general notes for Vendor contact information. Installation of speakers require speaker enclosures and conduits to nearest accessible ceilings. Refer to plans for rough in-requirements to also be provided by the general contractor. Refer to General Note 8 on sheet IT 401 for cabling information. Fire Alerting System equipment will be provided as a turnkey system, completely installed and commissioned by the general contractor including cabling, junction boxes, and raceways.

- 08 **Question:** Sheet A1.3 Door Schedule and Door/Frame Types depict a Type D door that is not found on the schedule. Please clarify if this type is being used and the location.

**Response:** Door Type D is not used.

- 09 **Question:** Sheet A4.1 depicts a vinyl coated ceiling tile in the kitchen. Yet on A1.2 Room Finish Schedule, the kitchen calls for the same SAT-1 as in other areas and a specification is not provided for the vinyl coated type. Please clarify the specification for the vinyl coated ceiling tile required.
- Response:** The vinyl coated ceiling tile is required in the kitchen. Refer to SAT-2 on the updated Room Finish Schedule on sheet A1.2
- 10 **Question:** Please confirm the cost of allowances provided (1-5) are to be included in the base bid.
- Response:** Yes
- 11 **Question:** Please clarify if the GC is required to provide a separate field office for the owner/architect for the duration of construction.
- Response:** No, a separate field office for owner/architect is not required.
- 12 **Question:** Please confirm the owner will employ the welding inspector as required per specification 051200.
- Response:** Yes, owner will provide testing services.
- 13 **Question:** Please confirm the owner will employ the testing agency as required per specification 042200.
- Response:** Yes, owner will provide testing services.
- 14 **Question:** Detail 2/E901 refers to structural drawings for the dimensions of the light pole base. This detail cannot be located on the structural drawings. Please provide.
- Response:** Provide eight #6 vertical bars with #3 spiral hoops with 6 inch pitch. Concrete is to be a minimum of 3000 psi. The minimum depth of pole footing is to be five feet below natural ground level.
- 15 **Question:** The Geotechnical Engineering Report (Revised) references a Karst Invertebrate Survey, looking for habitat for this endangered species. Is any part of this investigation supposed to be included in our proposal?
- Response:** No.
- 16 **Question:** In case of conflict, does the Revised Geotechnical report over rule the Earth Moving (321000) Specification?
- Response:** Yes, the Geotechnical report takes precedence over Specification Section 321000.
- 17 **Question:** In the Geotechnical Engineering Report, under the Building Pad Preparation section, the 1st instruction (after stripping) is to remove the stratum 1 dark brown fat clay, which ranges from 1'-6" to 4'-0" at the Building Pad area. Only boring No. 1 reflects a

Stratum II. Borings 9 and 10 are not plotted on the bore location drawing plan.

**Response:**

1. Dark Brown Fat Clay: Per report: borings in the building pad encountered 2 feet of the Stratum I. Other borings outside the building pad had more variability. Therefore, some variability may be encountered during construction. All dark brown Stratum I Fat Clay should be removed from the building pad.
  2. Not all borings encountered all stratum. The stratum are a generalization of the materials encountered. Refer to the boring logs for the details of the soil encountered in each boring.
  3. See attached revised drawing for the location of B-9 and B-10 pavement borings.
  4. Dark Brown Fat Clay: Per report: borings in the building pad encountered 2 feet of the Stratum I. Other borings outside the building pad had more variability. Therefore, some variability may be encountered during construction. All dark brown Stratum I Fat Clay should be removed from the building pad.
  5. Not all borings encountered all stratum. The stratum are a generalization of the materials encountered. Refer to the boring logs for the details of the soil encountered in each boring.
  6. See attached revised Geotechnical Drawing A-2 for the location of B-9 and B-10 pavement borings.
- 18 **Question:** The 2nd instruction is to cut to 933.5 across the building pad (plus overbuild) area and stockpile on site for re-use. In all areas, the borings reflect this elevation to be in either Stratum III or Stratum IV. Materials in these stratum are either CL (lean clay) or CH (fat clay), which both are noted as Unsatisfactory Materials in section 321000 –paragraph 2.1. C.

**Response:** See response to Question 16 above. Geotechnical report takes precedence over Specification section 321000. The moisture conditioned onsite soil in the building pad is crucial to reduce the potential for a "bathtub effect" that could cause swelling soils to exceed to the movements discussed in the geotechnical report.

- 19 **Question:** The 3rd instruction is to proof roll and remove any soft yielding zones. It has occurred to us that this removal process could be massive and/or unending, since the material is unsatisfactory already, we would suggest that removal of soil below 933.5 and either furnish Select Fill (by unit price) or chemical treatment (at an additional cost), would be beneficial to the owner financially to clarify this matter prior to submitting bids. Opening up and naturally drying the sub-grade (if too moist) should be a part of the bid requirements, anyway.

**Response:** If the native soil at the base of the described excavation is not wet, soft, or yielding it is not unsatisfactory. The building pad should be constructed per the geotechnical report. Substitution of select fill for moisture conditioned onsite soil, as previously discussed, could create a bathtub that would allow saturation of clayey soils beneath the select fill causing movements that greatly exceed those discussed in the report.

- 20 **Question:** The 4th instruction is to begin laying in and compacting moisture conditioned onsite soils (CL or CH) back to the building pad area, to the finished sub-grade elevation of 941.34 – 941.34, depending on where you are in the building. Continued use of unsatisfactory soils, moisture conditioned or not seems to be a very dangerous process, when utilizing soils with a PVR of 1-1/2" to 2-1/2", for Slab on Grade construction.

**Response:** The PVR is an analysis of the potential movement of the soils in the upper 15 feet. The PVR of 1.5 to 2.5 inches describes the potential movement of all of the soils cumulatively in the upper 15 feet based on their physical properties and moisture content. The building

pad preparation recommendations in the Geotechnical Report are based on detailed analysis of the onsite soil; and is intended to reduce the overall PVR in the upper 15 feet to about 1 inch. The moisture conditioned onsite soil is an integral part of the building pad preparation system for this site. Please see previous discussions of the moisture conditioned onsite soil and its necessity in the building pad preparation design.

Substitutions:

Subject to requirements the following manufacturer's products may be considered for use on the project:

1. **Section 072100 - Thermal Insulation.** Product: Johns Manville Mineral Wool Sound Attenuation Fire Batt (SAFB) product by IIG.
2. **Section 096723 - Resinous Flooring.** Product: Tennant Architectural Coatings MMG seamless resinous/epoxy flooring. General Contractor to confirm chemical compatibility with tile waterproofing products and submit appropriate supporting documentation and/or test results.
3. **Section 122413 - Roller Window Shades.** Product: CSI Springs Window Fashions Manual Solar Shades.
4. **Section 096723 - Resinous Flooring** Product: Florock florocryl quartz self-leveling methacrylate based flooring system. General Contractor to confirm chemical compatibility with tile waterproofing products and submit appropriate supporting documentation and/or test results.

Attachments: Revised Drawings 24x36

A1.1 - General Information  
A1.2 - Room Finish Schedule  
A4.2 - Floor Finishes  
A8.1 - Building Sections & Details  
E101 - Electrical Site Plan  
E201 - Electrical Lighting Plan  
E701 - Electrical Schedules  
E801 - Electrical Schedules  
P101 - Plumbing Symbols & Abbreviations  
IT404 - IT Detail Sheet  
LS1 - Life Safety Plan  
A-2 - Geotech Bore Location Plan

Revised Specifications:

Section 012100 - Allowances  
Section 012300 - Alternates

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Cory W. Hawkins, AIA, LEED AP  
Principal



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San Antonio, Texas 78205

Tel: +1 210 212 8022



## SECTION 012100 - ALLOWANCES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
  - 1. Lump-sum allowances.
- C. Related Requirements:
  - 1. Section 014000 "Quality Requirements" for procedures governing the use of allowances for testing and inspecting.

#### 1.2 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

#### 1.3 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

## 1.5 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

## 1.6 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner and or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.
- C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
  - 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

## 1.7 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
  - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
  - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other margins claimed.
  - 3. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.
  - 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
  - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.

2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

### 3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

### 3.3 SCHEDULE OF ALLOWANCES

- A. **Allowance No. 1:** Include the sum of ninety thousand dollars (\$90,000.00) for payment of utility impact fees.
- B. **Allowance No. 2:** Include the sum of two thousand dollars (\$2,500.00) for provision and installation of salvage cover equipment in the Fire Apparatus Bay.
- C. **Allowance No. 3:** Include the sum of twenty-five thousand dollars (\$25,000.00) for provision and installation of additional equipment and or furnishings.
- D. **Allowance No. 4:** Include the sum of three thousand dollars (\$3,000.00) for hardware modifications.
- E. **Allowance No. 5:** Include the sum of twenty thousand dollars (\$20,000.00) for owner's convenience.

END OF SECTION 012100

## SECTION 012300 - ALTERNATES

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

## 1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

## 1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION

## 3.1 SCHEDULE OF ALTERNATES

## A. Alternate No. 1 - Sports Flooring

1. Base Bid: The Base Bid for the Project includes provision and installation of 3'x3' Ramflex Sports Flooring, by Mondo, at Exercise Room 115.
2. Alternate: For Alternate No. 1, include the amount to be deducted from the Base Bid for provision and installation of VCT floor finish and loose laid 4'x6' horse mats, by Ergonomat, in lieu of Ramflex Sports flooring at Exercise Room 115.

## B. Alternate No. 2 – Plastic Laminate Counters

1. Base Bid: The Base Bid for the project includes solid surface counters for mill-work in the following spaces: Joker's Stand 107, Day Room 108, Kitchen 109, and Laundry 114.
2. Alternate: For Alternate No. 2, include the amount to be deducted from the Base Bid for provision and installation of plastic laminate counters in lieu of solid surface counters in the spaces listed above.

## C. Alternate No. 3 - Additional Prefinished Welded Wire Fencing

1. Base Bid: The Base Bid for the project includes 6' high galvanized chain link fencing on the north, east, and west property lines of the project site as indicated in the Construction Documents.
2. Alternate: For Alternate No. 3, include the amount to be added to the Base Bid for provision and installation of additional Prefinished Welded Wire Fencing on the north, east, and west property lines of the project site in lieu of galvanized chain link fencing.

## D. Alternate No. 4 - High performance coating for galvanized exterior Architecturally Exposed Structural Steel Framing.

1. Base Bid: The Base Bid for the project includes hot-dipped galvanized Architecturally Exposed Structural Steel Framing at all exterior exposed structural steel and decking including but not limited to bent plate fascia/trim, concealed fastener metal deck, porch columns, porch beams, overhead door frames, and wheel guards.
2. Alternate: For Alternate No. 4, include the amount to be added to the Base Bid for provision and installation of High Performance coating on galvanized exterior Architecturally exposed Structural Steel components listed above.

- E. Alternate No. 5 - Building Pad Preparation - 50% Select fill and 50% Granular Select Fill.
1. Base Bid: The Base Bid building pad preparation for the project shall be as indicated in the Revised Geotechnical Engineering Report, Dated October 3rd, 2014, from Terracon Consultants, Inc. The Base Bid building pad preparation includes 100% Granular Select Fill.
  2. Alternate: Subject to review and recommendation by the Geotechnical Engineer; For Alternate No. 5, include the amount to be deducted from the Base Bid for provision and installation of building pad with 50% Select Fill and 50% Granular Select Fill.
- F. Alternate No. 6 - Building Pad Preparation - 100% Select fill.
1. Base Bid: The Base Bid building pad preparation for the project shall be as indicated in the Revised Geotechnical Engineering Report, Dated October 3rd, 2014, from Terracon Consultants, Inc. The Base Bid building pad preparation includes 100% Granular Select Fill.
  2. Alternate: Subject to review and recommendation by the Geotechnical Engineer; For Alternate No. 6, include the amount to be deducted from the Base Bid for provision and installation of building pad with 100% Select Fill.

END OF SECTION 012300

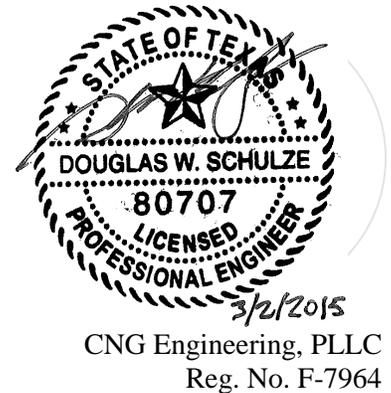


Date: March 2, 2015

Project: **COSA Fire Station no. 32**

CNG Project No.: **0024-12**

From: CNG Engineering, PLLC  
1917 N New Braunfels Ave. Ste. 201  
San Antonio, Texas 78208



To: All Sub-Contractors and others to whom Drawings and Specifications have been issued.

**Addendum:** This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, material men, and all other parties shall be responsible for reading this entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. The addendum forms a part of the Contract Documents, modifying and superseding where it is inconsistent with them. All other conditions of the Contract Documents remain unchanged.

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## CHANGES TO DRAWINGS AND SPECIFICATIONS

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### ELECTRICAL

#### REPLACE DRAWING SHEET: E101

Item 1: Relocated Electrical Service Entrance from new pole to inside of property line away from easement.

Item 2: Added keyed note no. 9 to reference the Electrical Service Entrance.

#### REPLACE DRAWING SHEET: E201

Item 1: Removed and added exit signs to reflect the Life safety (sheet LS.1) path of egress.

#### REPLACE DRAWING SHEET: E701

Item 1: Added type 'X3' exit sign to Lighting Fixture Schedule.

Item 2: Adjusted various equipment items, loads, circuit breakers to the Equipment Connection schedule.

#### REPLACE DRAWING SHEET: E801

Item 1: Removed circuit no. 16 from Panel 'P2'.

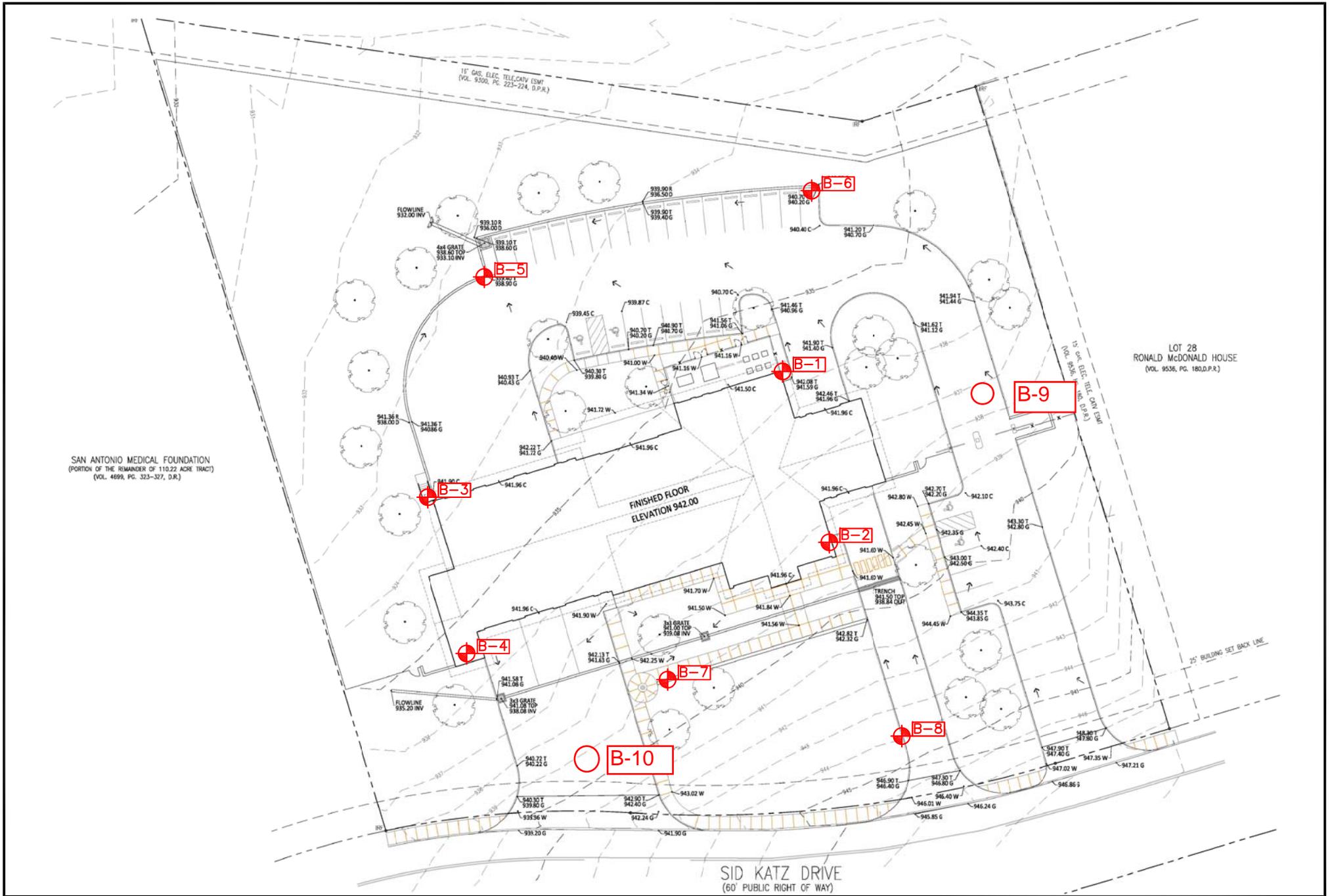
Item 2: Adjusted loads and circuit breaker size for circuits 10,12 on Panel 'AC'.

Item 3: Added note referencing circuit breakers as arc-fault type. Circuit breakers denoted with asterisk symbol.

### PLUMBING

#### REPLACE DRAWING SHEET: P101

Item 1: Added floor drain in laundry room.



**LEGEND:**

 - APPROXIMATE BORING LOCATION

Project Mngr:	DGS	Project No.	90135072
Drawn By:	RA(90)	Scale:	N.T.S.
Checked By:	DGS	File No.	90135072
Approved By:	DGS	Date:	05-09-13

**Terracon**  
 Consulting Engineers and Scientists  
 6911 BLANCO ROAD SAN ANTONIO, TX 78216  
 PH. (210) 641-2112 FAX. (210) 641-2124

**BORE LOCATION PLAN**  
 Fire Station No. 32  
 4919 Charles Katz Drive  
 San Antonio, Texas

**EXHIBIT**  
 A-2

# CONSTRUCTION DRAWINGS ORGANIZATION

- A. ARCHITECTURAL DRAWINGS ORGANIZATION: Architectural drawings occur first in the documents package and are organized into sections generally according to the particular aspect of work on the project. Each section is numbered sequentially, as follows:
- A1. GENERAL INFORMATION
  - A2. SITE
  - A3. FLOOR PLANS
  - A4. CEILING, FLOOR FINISHES
  - A5. ROOF
  - A6. EXTERIOR ELEVATIONS
  - A7. INTERIOR ELEVATIONS, CABINETWORK
  - A8. SECTIONS, DETAILS
  - A9. ADDITIONAL INFORMATION / ANOLLARY CONSTRUCTION

Refer to the Index of Drawings for specific organization details for this set of documents.

- B. CONSULTANT DRAWINGS ORGANIZATION: Drawings prepared by separate consultants occur after the architectural drawings in the following sequence, if and as applicable:
- LANDSCAPE
  - CIVIL
  - STRUCTURAL
  - MECHANICAL
  - ELECTRICAL
  - PLUMBING

Refer to each individual Consultant's document package for information regarding the internal organization, keying and symbol systems for each Consultant's documents.

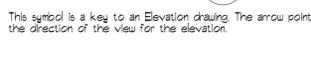
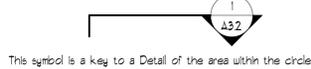
- C. ARCHITECTURAL DRAWINGS SHEET NUMBERING: Architectural drawings are numbered in the lower right hand corner of each sheet, first by Section, then by Sheet Number within the Section. (Indicates the 5th sheet in Section A2).

## A2.5

- D. ARCHITECTURAL DRAWING NUMBERING: Architectural drawings are numbered sequentially (1,2,3, etc.) on each sheet within the Section. (Indicates the 3rd drawing on this sheet).

## 3 DETAIL

- E. ARCHITECTURAL DRAWING KEYS: Architectural drawings are keyed by Number and Sheet, as follows: 2/434. (Indicates the 2nd drawing on sheet A3.4.) The following keying symbols may be used. This symbol is a key to a Section taken along the straight line of the symbol. The arrow points in the direction of the view for the symbol.



- F. ARCHITECTURAL ROOM KEYS: Individual spaces in the floor plans are keyed sequentially on the plan drawings, first by floor, then by room number, as in the example below:



- G. ARCHITECTURAL DOOR KEYS: Doors are keyed on the floor plans with a prefix 'D' followed by the adjoining room number. If multiple doors occur in a single room, each additional door key contains an alphabetical suffix (A, B, C, etc.) after the room number, as in the example below:



- H. ARCHITECTURAL GLAZING/WINDOW KEYS: Windows/Glazing are keyed by type on the floor plans with a prefix 'W' followed by a numerical suffix (1, 2, 3, etc.), as in the example below:



- I. ARCHITECTURAL PARTITION KEYS: Partitions are keyed by type on the floor plans alphabetically (A, B, C, etc.), as in the example below:



- J. ARCHITECTURAL 'NORTH ARROW' SYMBOLS: Two North Arrow symbols may be utilized on Architectural drawings. The symbol below denotes 'true' (astratic) north. The outer square is parallel/perpendicular to the main axis of the building/project and the inner arrow points in the direction of true north.

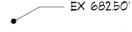


The symbol below denotes 'project' north. The outer square is parallel/perpendicular to the main axis of the building/project and the inner arrow points in the direction closest to true north that is parallel/perpendicular to the building/project.

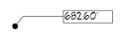


- K. ARCHITECTURAL GRADE ELEVATION SYMBOLS: Two grade elevation symbols may be utilized on architectural drawings.

The symbol below denotes an existing spot grade elevation to remain.



The symbol below indicates a new spot grade elevation.



- L. ARCHITECTURAL NOTES: Three types of notation may be utilized on architectural drawings.

GENERAL NOTES describe general information regarding the project work related to the drawings of a particular sheet. General notes are labeled alphabetically (A, B, C, etc.) on each sheet.

KEYNOTES describe specific items on the drawings of a particular sheet. Keynotes are listed numerically (1, 2, 3, etc.) in a column and correspond to keyed symbols on the appropriate drawing of a particular sheet, as in the example below. Keynote numbering is specific to each sheet; a given keynote number may or may not reference the same item on different sheets.

KEYNOTES describe specific items on the drawings of a particular sheet. Keynotes are listed numerically (1, 2, 3, etc.) in a column and correspond to keyed symbols on the appropriate drawing of a particular sheet, as in the example below. Keynote numbering is specific to each sheet; a given keynote number may or may not reference the same item on different sheets.

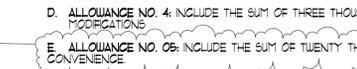
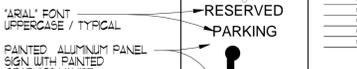
DRAWING NOTES describe specific items on a specific drawing, as in the example below, and may be utilized in combination with or in lieu of Keynotes.

- M. DIMENSIONS: 1. PLAN DIMENSIONS are to face of wall finish or face of masonry, unless specifically noted otherwise.

2. SECTION/DETAIL/CABINETWORK DIMENSIONS are actual finish dimensions, unless specifically noted otherwise.

3. INTERIOR ELEVATION DIMENSIONS are nominal and assume a level floor condition. Run all horizontal reveals and trim level and all vertical reveals plumb.

RESERVED PARKING SIGN WITH PAINTED GRAPHICS/WHITE BACKGROUND/BLACK GRAPHICS AND TEXT



# ACCESSIBILITY STANDARDS

All aspects of this project shall comply with the 2012 TEXAS ACCESSIBILITY STANDARDS of the Elimination of Architectural Barriers Texas Government Code, Chapter 469, Administered by the Texas Department of Licensing and Regulation Effective March 15, 2012, including but not limited to the following:

## CODE SUMMARY

PROJECT ADDRESS: 4799 Charles Katz Dr. San Antonio, TX 78229

- APPLICABLE CODES:
- 2012 International Building Code
  - 2012 International Mechanical Code
  - 2012 International Plumbing Code
  - 2012 International Fire Code
  - 2009 International Energy Conservation Code
  - 2011 National Electric Code
  - 2012 International Fuel Gas Code

OCCUPANCY CLASSIFICATION: TYPE 'B'

CONSTRUCTION TYPE: Type 'IB'

TOTAL BUILDING AREA: 14,125 sq'

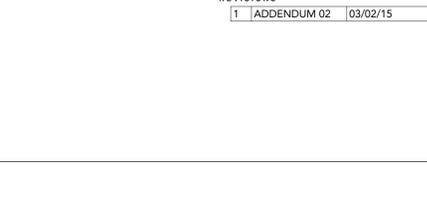
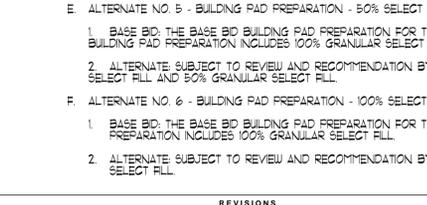
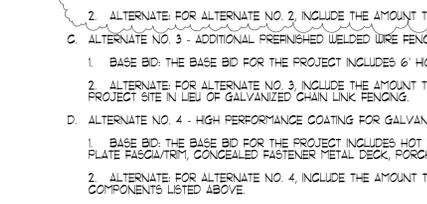
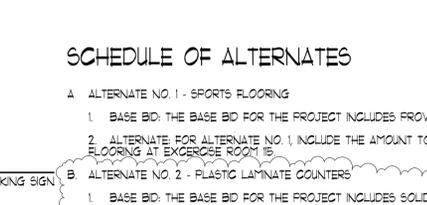
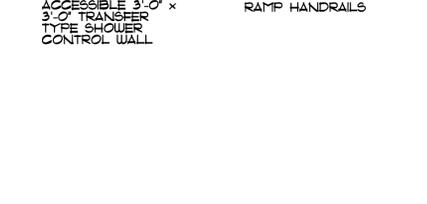
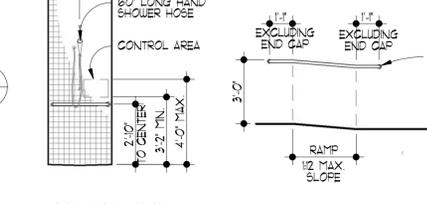
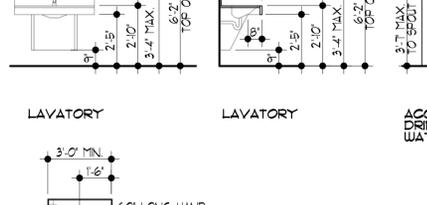
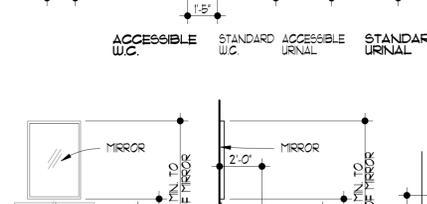
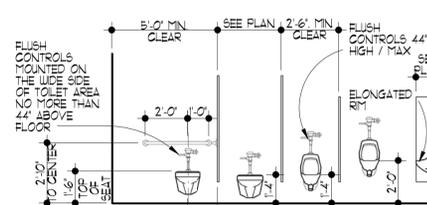
MAX ALLOWABLE BUILDING AREA: 9,23,000 sq'

TOTAL BUILDING HEIGHT: 1 STORY / 28'-8" AFF.

MAX BUILDING HEIGHT: 8'-5"

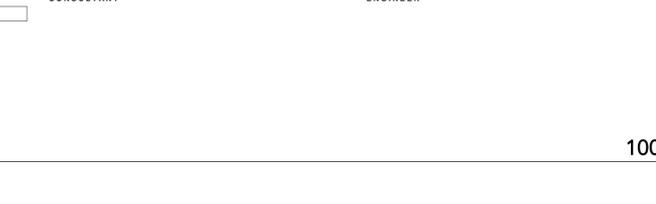
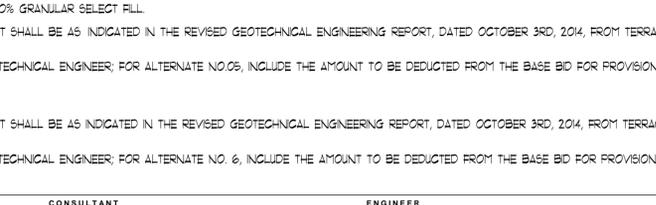
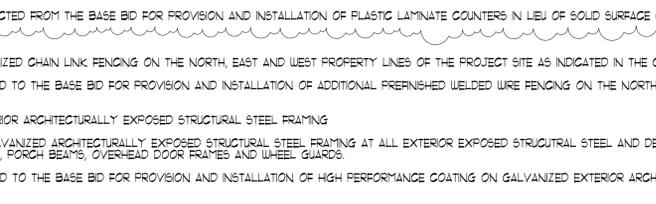
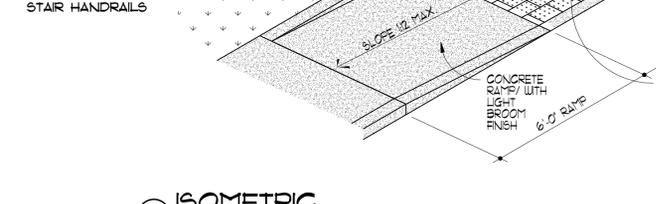
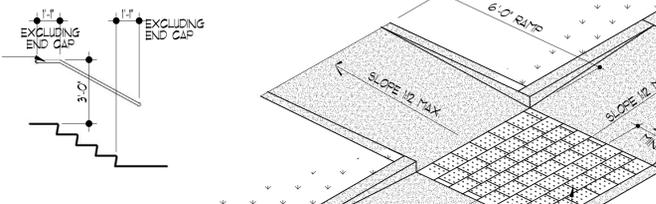
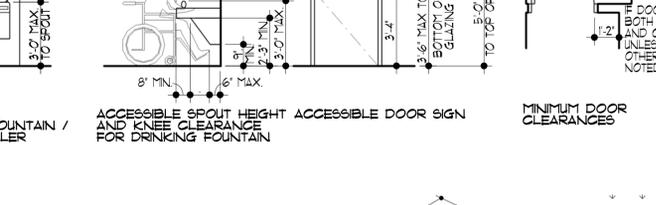
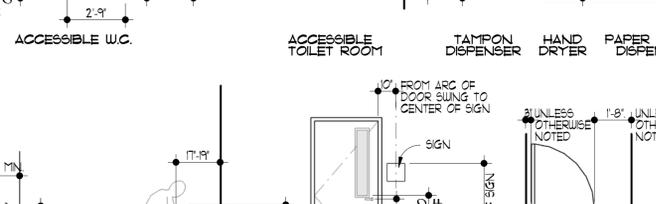
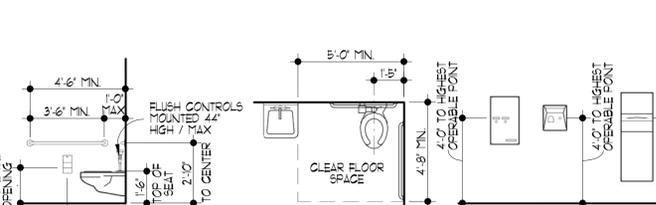
- REQUIRED SPECIAL INSPECTIONS:
- 10425 Inspection of Fabrications
  - 10522 Steel Construction
  - 10533 Concrete Construction
  - 10544 Masonry Construction
  - 10566 Soils
  - 10565 Exterior Insulation & Finish Systems (EIFS)

SITE DATA: Parking provided: 5 visitor parking spaces (includes 2 van accessible spaces) secure parking space: 25 fire dept. parking spaces (includes 2 van accessible spaces)



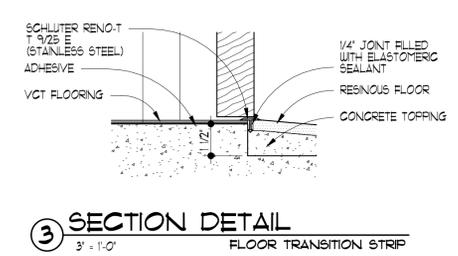
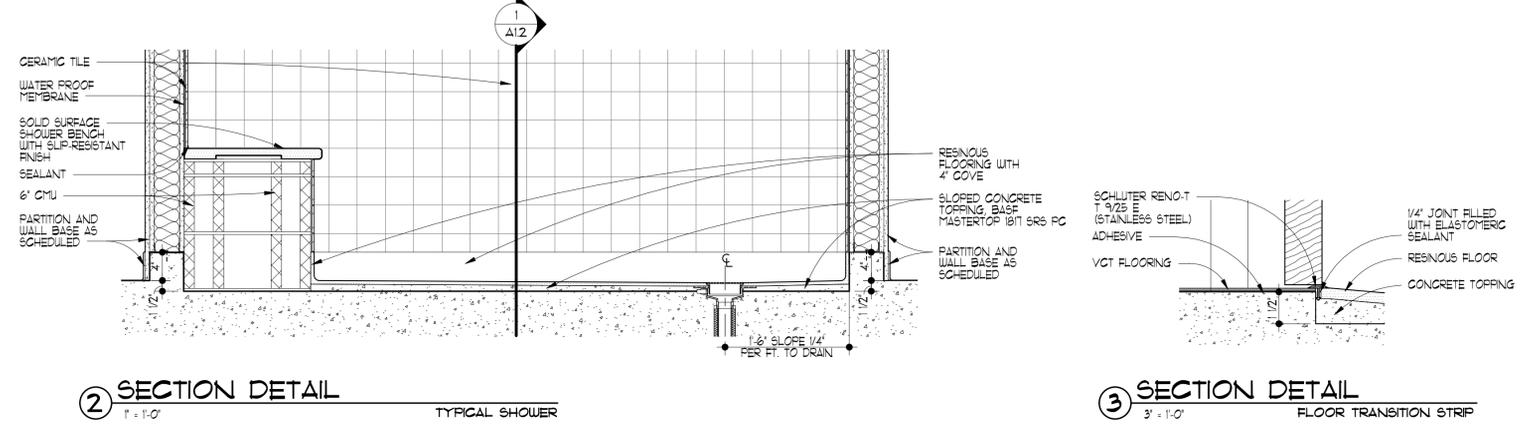
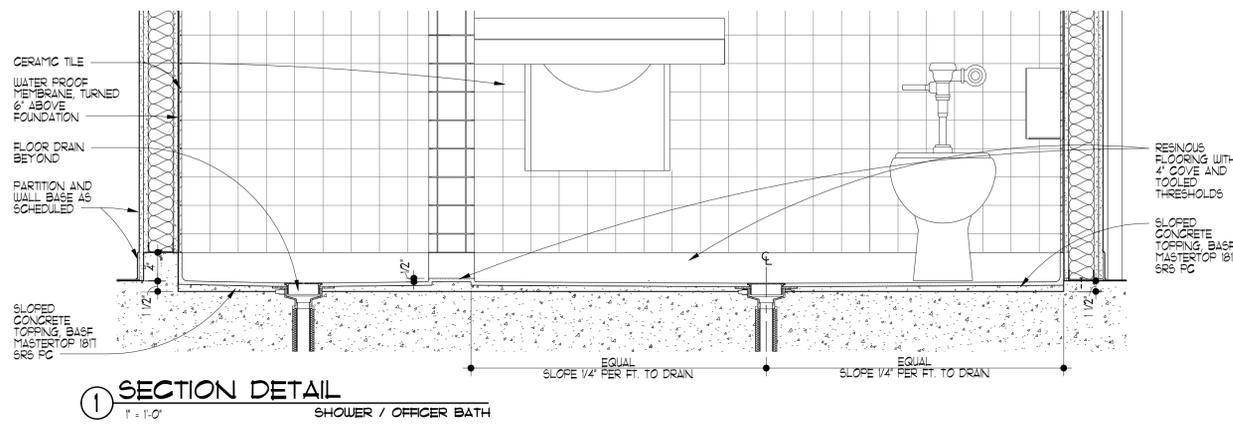
# ACCESSIBILITY STANDARDS GENERAL NOTES

1. ALL EXPOSED PIPES AND SURFACES MUST BE INSULATED
2. ALL DOOR HARDWARE & LAVATORY FAUCETS MUST BE LEVERS / NO ROUND KNOBS
3. ALL HANDRAILS, GRAB BARS, AND TUB OR SHOWER SEATS MUST HOLD 250 LBS
4. ALL DOOR CLOSERS SHALL BE ADJUSTED TO A MINIMUM OF 5 SECONDS CLOSURE TIME
5. ALL DOOR OPENING FORCE FOR INTERIOR DOORS SHALL BE ADJUSTED TO 5 LBS MAX.



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ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS S	WALLS E	WALLS W	CEILING	MILLWORK	REMARKS
101	WASH	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	
102	BUNKER STORAGE	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	
103	STORAGE	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	
104	COURT STORAGE	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	
105	FIRE APPARATUS BAY	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	DO NOT PAINT EXPOSED CONDUITS
106	STG	BFC-1	NONE	PT-3	PT-3	PT-3	OPEN	---	
107	JOKER'S STAND	VCT-3	RB-1	PT-1	---	PT-1	PT-2/SAT-1	PL-VPL-2	
108	DAYROOM / DINING	VCT-2/VCT-3	RB-1	PT-1	PT-1	PT-1	PT-2/SAT-1	PL-VPL-2	
109	KITCHEN	VCT-2/VCT-3	RB-1	PT-1	PT-1	---	SAT-1	PL-VPL-2	
110	PAN.	VCT-3	RB-1	PT-1	PT-1	PT-1	PT-2	---	1/2\"/>

FLOOR COLOR LEGEND

FINISH SCHEDULE NO.	FLOOR TYPE	MANUFACTURER / PATTERN / SIZE / COLOR	REMARKS
VCT-1	VINYL COMPOSITION	MANNINGTON COMMERCIAL: PROGRESSIONS/ 12X12/ 85255 FROSTED JADE	LIGHT GREEN FIELD COLOR
VCT-2	VINYL COMPOSITION	MANNINGTON COMMERCIAL: PROGRESSIONS/ 12X12/ 85501 ALMOND BUFF	TAN FIELD COLOR
VCT-3	VINYL COMPOSITION	MANNINGTON COMMERCIAL: PROGRESSIONS/ 12X12/ 85505 DEEP SAGE	DARK GREEN BORDER COLOR
MMA-1	RESINOUS	BASE: DEGAGLAD CF/ DECORATIVE FLAKE/ BUCKSKIN	
SC-1	SEALED CONCRETE	SCOREL SYSTEMS: SELECT SEAL-W	INTERIOR CONCRETE SEALER
SC-2	SEALED CONCRETE	PROSOLO SLX 100/ OR EQUAL	
BFC-1	BROOM FINISHED CONCRETE		PROVIDE 3 MOCK UPS FOR OWNER PREVIEW AND APPROVAL
SE-1	SPORTS FLOORING	MONDO: RAMPLEX/ TIB BROWN	SEE ALTERNATE NO. 1

BASE COLOR LEGEND

FINISH SCHEDULE NO.	BASE TYPE	MANUFACTURER / PATTERN / SIZE / COLOR
RB-1	RUBBER	JOHNSONITE 4\"/>

WALL COLOR LEGEND

FINISH SCHEDULE NO.	WALL TYPE	MANUFACTURER / PATTERN / SIZE / COLOR
PT-1	PAINTED GYPSUM BOARD	BENJAMIN MOORE: OC-21 BALBOA MIST
PT-3	PAINTED CMU	EPOXY CMU PAINT / COLOR TO MATCH PT-1
PT-4	PAINTED PLYWOOD	COLOR TO MATCH PT-1
CT-1	CERAMIC TILE	DALTILE: SEMI-GLOSS/ 4 1/2\"/>

CEILING COLOR LEGEND

FINISH SCHEDULE NO.	CEILING TYPE	MANUFACTURER / PATTERN / SIZE / COLOR
PT-2	PAINTED GYPSUM BOARD	BENJAMIN MOORE: T-04 DECORATOR'S WHITE
SAT-1	SUSPENDED ACOUSTICAL TILE	ARMSTRONG: DUNE SQUARE EDGE/ 2' x 2'
SAT-2	SUSPENDED ACOUSTICAL TILE	ARMSTRONG: DUNE SQUARE EDGE VINYL COATED/ 2' x 2'

MILLWORK COLOR LEGEND

FINISH SCHEDULE NO.	MILLWORK TYPE	MANUFACTURER / PATTERN / SIZE / COLOR	REMARKS
HVP-1	HARDWOOD VENEER PLYWOOD	PLAIN SLICED MAPLE VENEER PLYWOOD	KITCHEN CABINETS
PL-1	PLASTIC LAMINATE	WILSONART LAMINATE: 4885-38 GREEN SOAPSTONE	COUNTER TOPS, EDGES, AND BACKSPASHES
PL-2	PLASTIC LAMINATE	WILSONART LAMINATE: 1939K-18 BLOND ECHO	ALL OTHER CABINETS
SS-1	SOLID SURFACE	CORIAN: CANYON (E)	SEE ALTERNATE NO. 2



PROJECT  
**Fire Station No. 32**

4839 Charles Katz Dr.  
San Antonio, Texas

REVISIONS

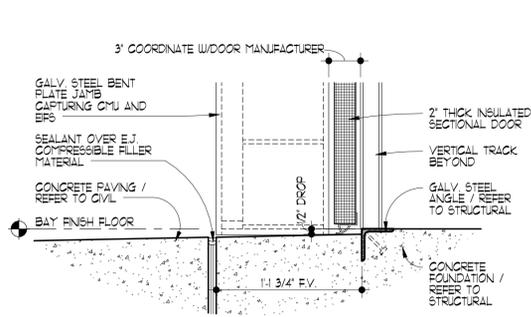
1	ADDENDUM 02	03/02/15
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CONSULTANT ENGINEER ARCHITECT

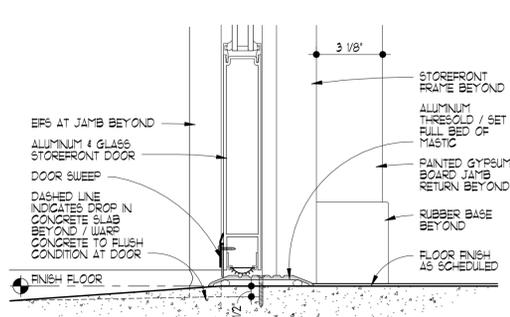


100% CONSTRUCTION DOCUMENTS **A1.2**

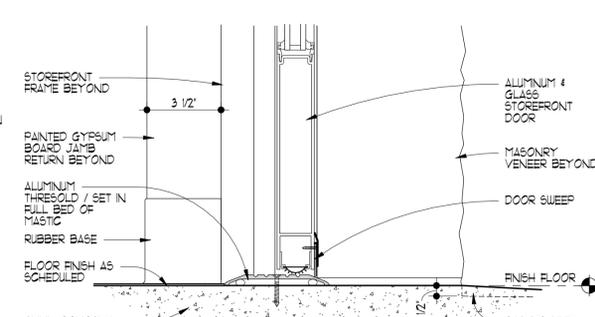
**BEATY PALMER ARCHITECTS**  
 PROJECT NUMBER 1219  
 DATE 02.10.15  
 SHEET NUMBER  
 DRAWN BY CBH  
 REVIEWED BY CWH  
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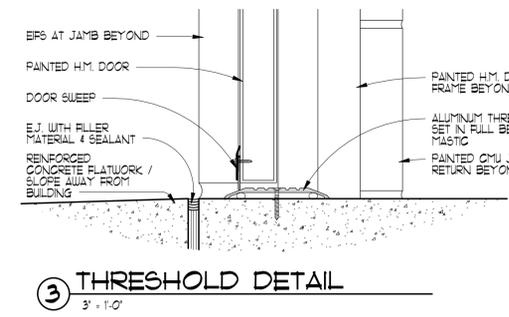
6 THRESHOLD DETAIL  
1/2" = 1'-0"



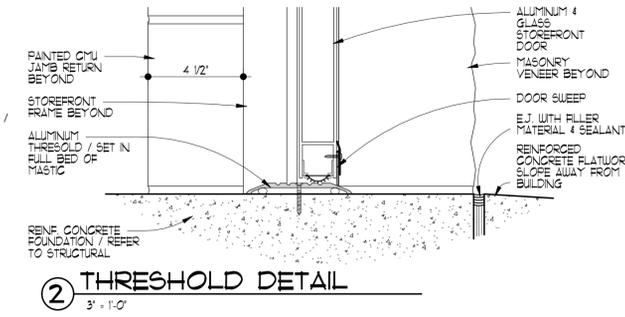
5 THRESHOLD DETAIL  
3" = 1'-0"



4 THRESHOLD DETAIL  
3" = 1'-0"



3 THRESHOLD DETAIL  
3" = 1'-0"



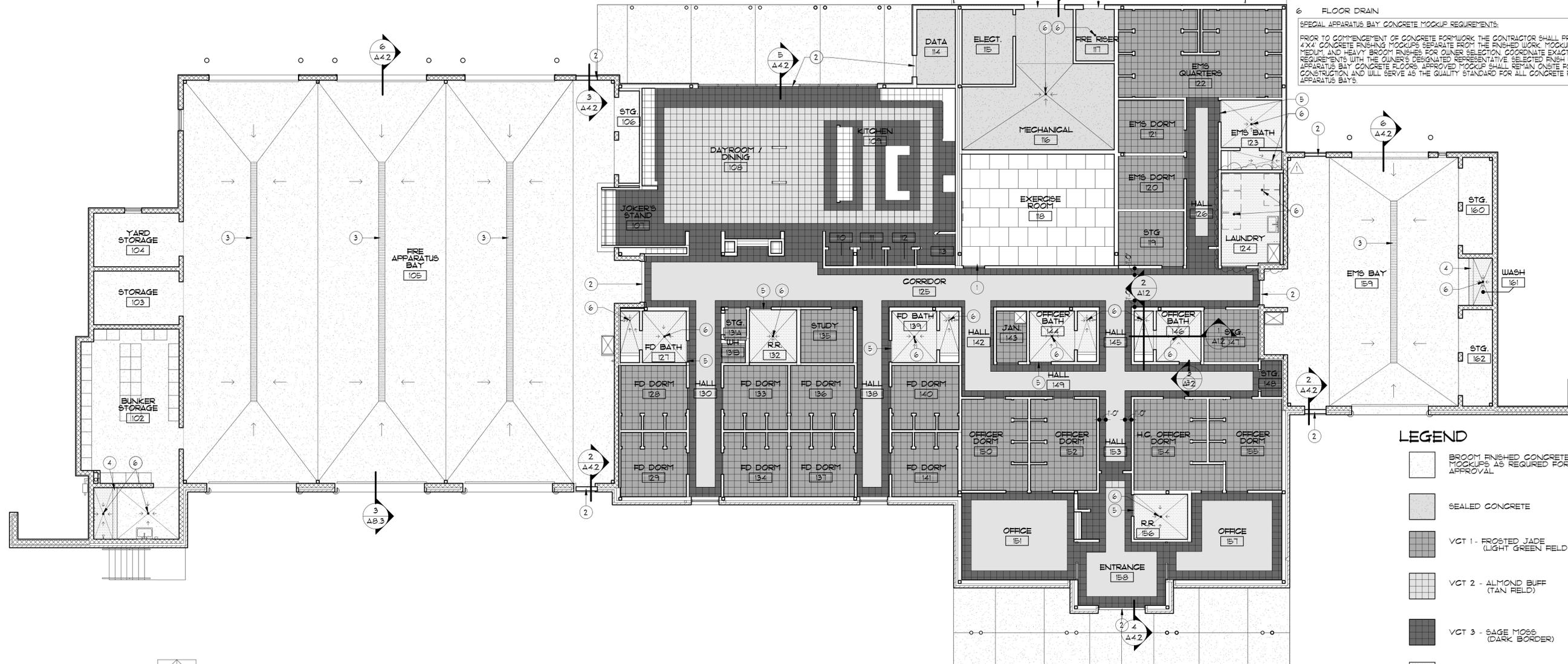
2 THRESHOLD DETAIL  
3" = 1'-0"

**KEYNOTES**

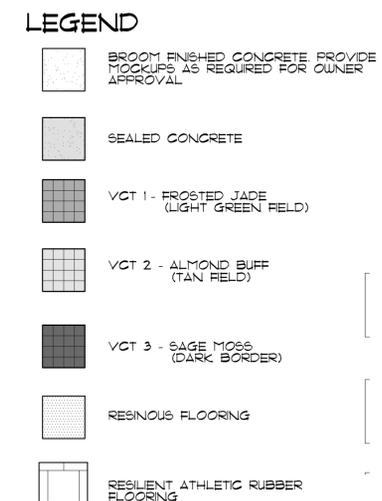
- 1 RUBBER TRANSITION STRIP
- 2 ALUMINUM THRESHOLD
- 3 6" HEAVY DUTY CAST IRON TRENCH DRAIN / REFER TO PLUMBING DRAWINGS
- 4 CONCRETE CURB WITH RESINOUS FINISH INTEGRAL TO SHOWER DRAIN SURFACE
- 5 STAINLESS STEEL ANGLE RESINOUS FLOORING TRANSITION STRIP ADHERED TO SUBFLOOR
- 6 FLOOR DRAIN

**SPECIAL APPARATUS BAY CONCRETE MOCKUP REQUIREMENTS:**

PRIOR TO COMMENCEMENT OF CONCRETE FORMWORK THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE 4'X4' CONCRETE FINISHING MOCKUPS SEPARATE FROM THE FINISHED WORK. MOCKUPS SHALL INCLUDE LIGHT, MEDIUM AND HEAVY BROOM FINISHES FOR OWNER SELECTION. COORDINATE EXACT MOCKUP FINISHING REQUIREMENTS WITH THE OWNER'S DESIGNATED REPRESENTATIVE. SELECTED FINISH WILL BE APPLIED TO THE APPARATUS BAY CONCRETE FLOORS. APPROVED MOCKUP SHALL REMAIN ON SITE FOR DURATION OF CONSTRUCTION AND WILL SERVE AS THE QUALITY STANDARD FOR ALL CONCRETE FINISHING WORK IN THE APPARATUS BAYS.



1 FLOOR FINISH PLAN  
1/8" = 1'-0"



**PROJECT**  
**Fire Station No. 32**  
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**REVISIONS**

1	ADDENDUM 02	03/02/15
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CONSULTANT ENGINEER ARCHITECT

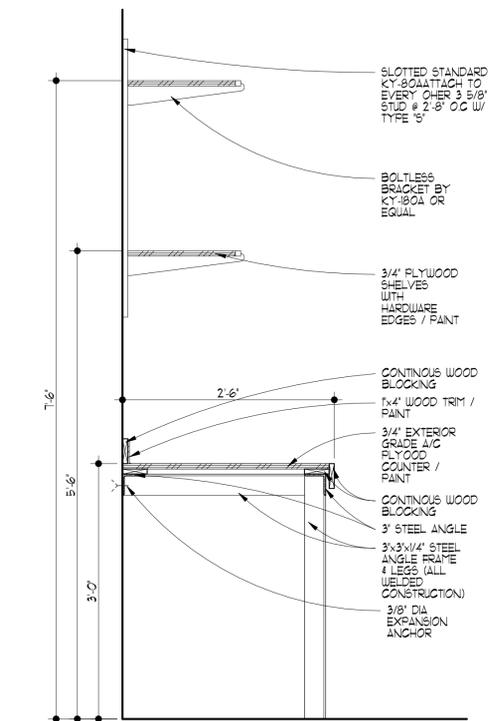


**DRAWN BY** MS  
**REVIEWED BY** CH  
**PROJECT NUMBER** 1219  
**DATE** 02.10.15  
**SHEET NUMBER** A4.2  
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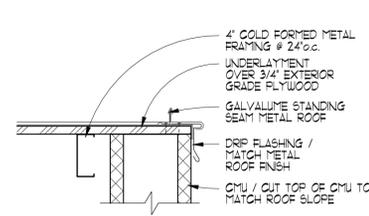
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# KEYNOTES

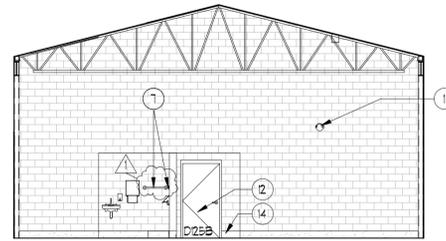
- 1 USDD EQUIPMENT/REFER TO ELECTRICAL, IT, AND USDD DRAWINGS
- 2 SALVAGE COVER EQUIPMENT / REFER TO SCHEDULE OF ALLOWANCES
- 3 1/2" REMOVABLE GALVANIZED STEEL HANGING ROD
- 4 CERAMIC WALL TILE
- 5 ROOM ID SINGAGE
- 6 VINYL GRAPHICS ON OVERHEAD DOOR / TYPICAL / REFER TO 3/A14
- 7 2"x TOUCEL BAR
- 8 GALVANIZED UNISTRUT OVERHEAD DOOR BRACING AT MOTORS & TRACKS / PROVIDE / PAIR OF BRACES PER MOTOR & TRACK / FIELD VERIFY AND COORDINATE WITH OVERHEAD MOUNTED EQUIPMENT
- 9 PREFINISHED METAL WALL PANEL WITH MITERED OUTSIDE CORNERS
- 10 ADJUSTABLE SHELVING ON METAL STANDARDS
- 11 HOLLOW METAL DOOR & FRAME / PAINT
- 12 STRUCTURAL COLUMNS / PAINT / COLOR AS SELECTED BY ARCHITECT
- 13 REINFORCED CONCRETE CURB / REFER TO WALL SECTIONS
- 14 PREFINISHED METAL LOUVER



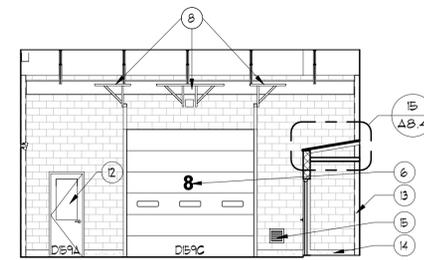
**13 MILLWORK SECTION**  
1/8" = 1'-0"  
FIRE APPARATUS BAY 105



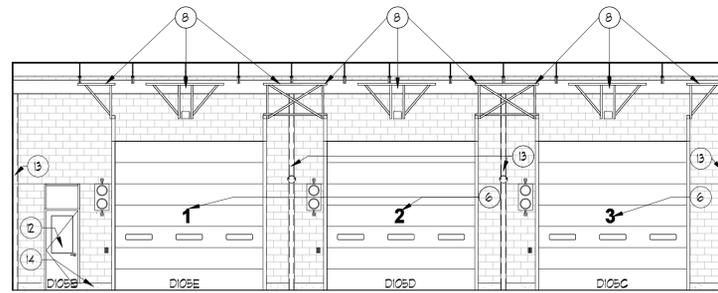
**12 SECTION DETAIL**  
1 1/2" = 1'-0"



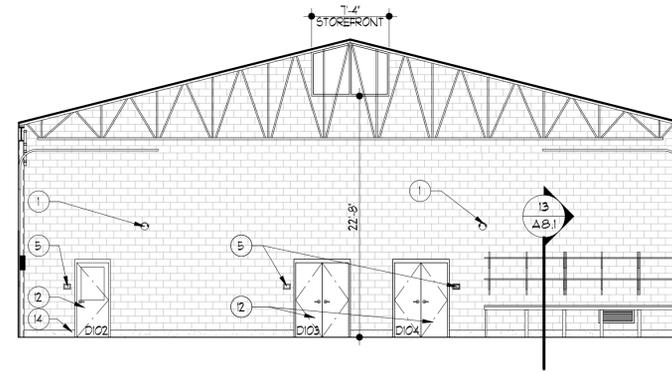
**11 WEST ELEVATION**  
1/8" = 1'-0"  
EMS BAY 59



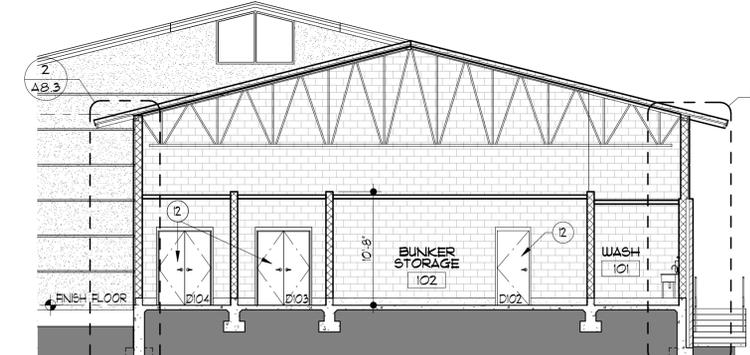
**10 NORTH ELEVATION**  
1/8" = 1'-0"  
EMS BAY 59



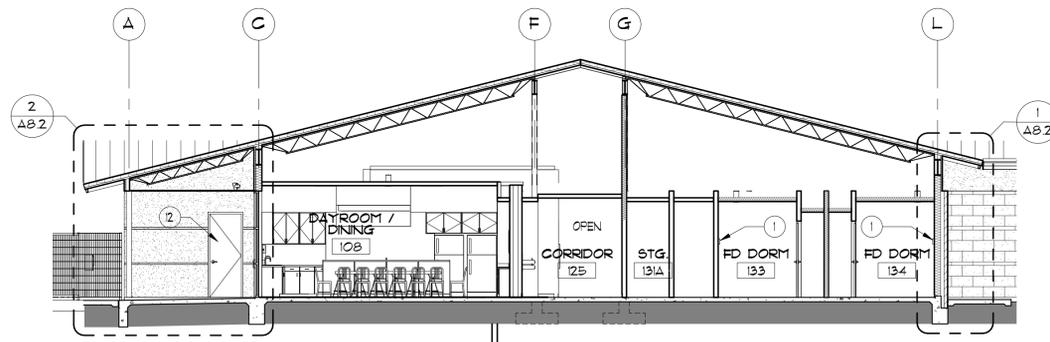
**9 SOUTH ELEVATION**  
1/8" = 1'-0"  
FIRE APPARATUS BAY 105



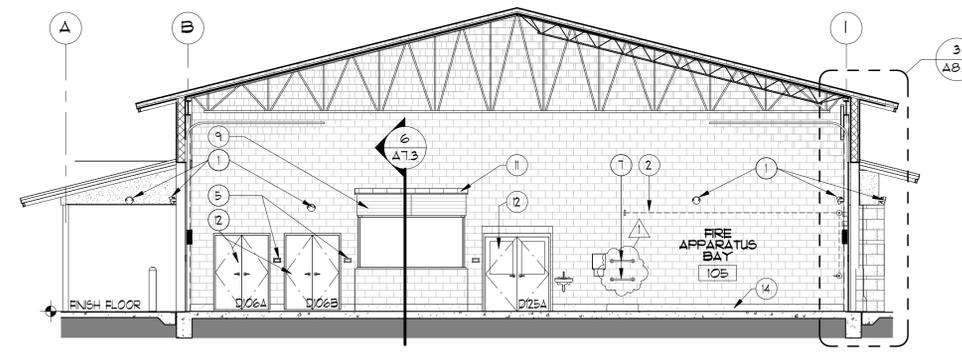
**8 WEST ELEVATION**  
1/8" = 1'-0"  
FIRE APPARATUS BAY 105



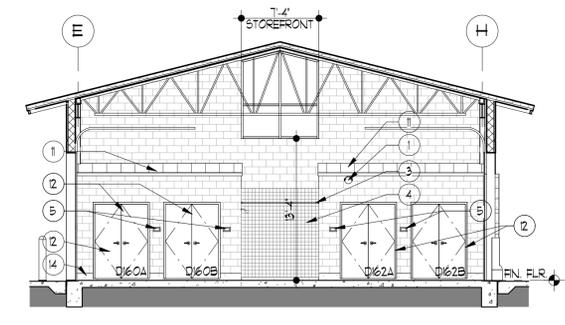
**7 BUILDING SECTION**  
1/8" = 1'-0"



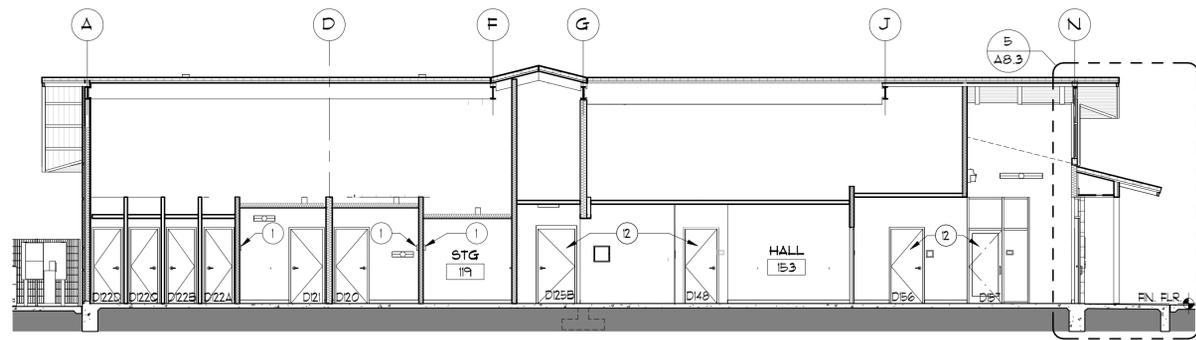
**6 BUILDING SECTION**  
1/8" = 1'-0"



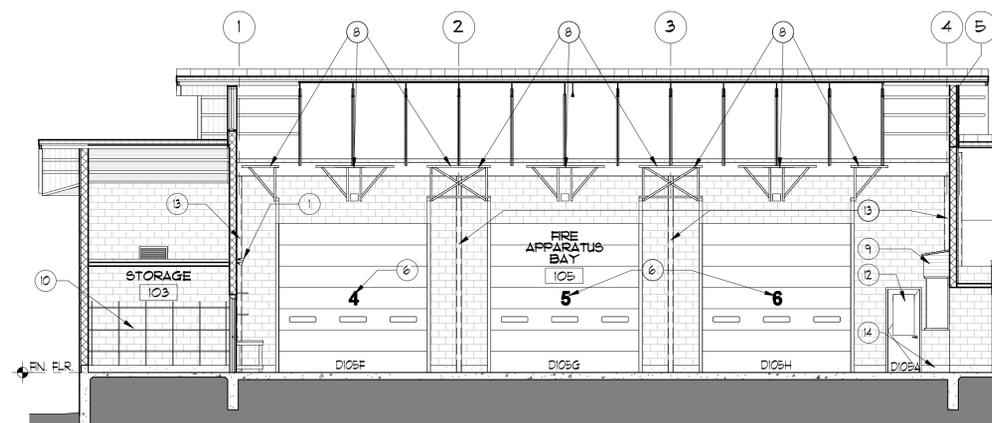
**5 BUILDING SECTION**  
1/8" = 1'-0"



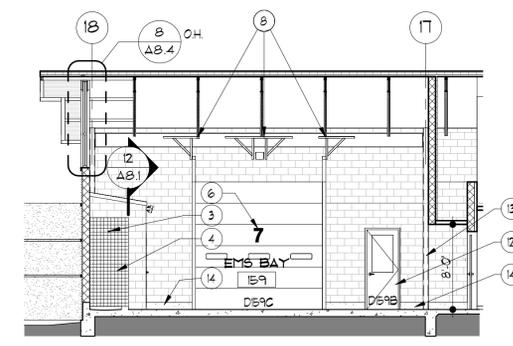
**4 BUILDING SECTION**  
1/8" = 1'-0"



**3 BUILDING SECTION**  
1/8" = 1'-0"



**2 BUILDING SECTION**  
1/8" = 1'-0"



**1 BUILDING SECTION**  
1/8" = 1'-0"



## Fire Station No. 32

4839 Charles Katz Dr.  
San Antonio, Texas

REVISIONS	CONSULTANT	ENGINEER	ARCHITECT
1	ADDENDUM 02	03/02/15	

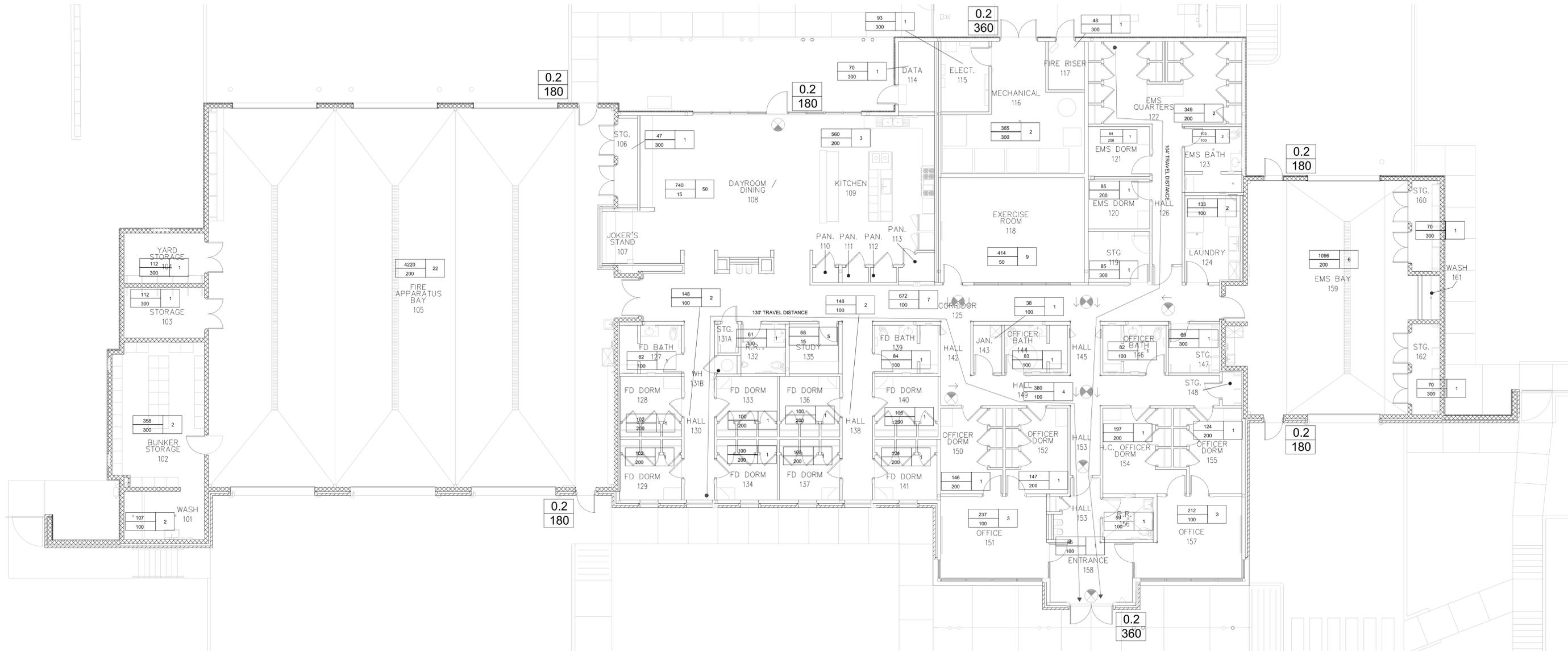


DRAWN BY AG  
REVIEWED BY CWH  
PROJECT NUMBER 1219  
DATE 02.10.15  
SHEET NUMBER

## BEATY PALMER ARCHITECTS

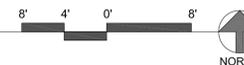
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**1 Floor Plan - Life Safety**

SCALE: 1/8" = 1'-0"



**GENERAL BUILDING DATA & CODE ANALYSIS**

**Applicable Codes**  
 2012 International Building Code w/ City of San Antonio Amendments  
 2012 International Fire Code w/ City of San Antonio Amendments  
 2012 International Energy Conservation Code w/ City of San Antonio Amendments  
 2012 International Mechanical Code w/ City of San Antonio Amendments  
 2011 National Electric Code w/ City of San Antonio Amendments  
 2012 International Plumbing Code w/ City of San Antonio Amendments

**Building Information**  
 Occupancy Classification: Group S-2 w/ Group B  
 Number of Stories: One Story  
 Area: 14,211 sf  
 Construction Type: Type IIB  
 Fire Protection  
 Fully Sprinklered (supervised)

**OCCUPANCY LOAD & EGRESS INFORMATION**

Total Occupants: 160  
 Exits required: 2  
 Exits provided: 6  
 Door width required: 2.7'  
 Door width provided: 21.0'

← ● → Maximum measured travel distance (300' permitted by 2012 IBC with sprinklers)

⊗ Exit Sign (See electrical drawings for details).

Room Area	OL	Occupant Load Factor (FT <sup>2</sup> / Person), Net (N) or Gross (G)
OL Factor	OL	

0.2 Level egress width per person served (Inch, IBC 1005.1)  
 ### Calculated number of persons served (Divide scaled clear egress width by 0.2' / person served)



**PROJECT**

**Fire Station No. 32**

4919 Charles Katz Dr.  
 San Antonio, Texas

**REVISIONS**

**CONSULTANT**



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**ENGINEER**



**ARCHITECT**

**DRAWN BY**

MME

REVIEWED BY

DRE

DATE

02.13.2015

SHEET NUMBER

**BEATY PALMER ARCHITECTS**

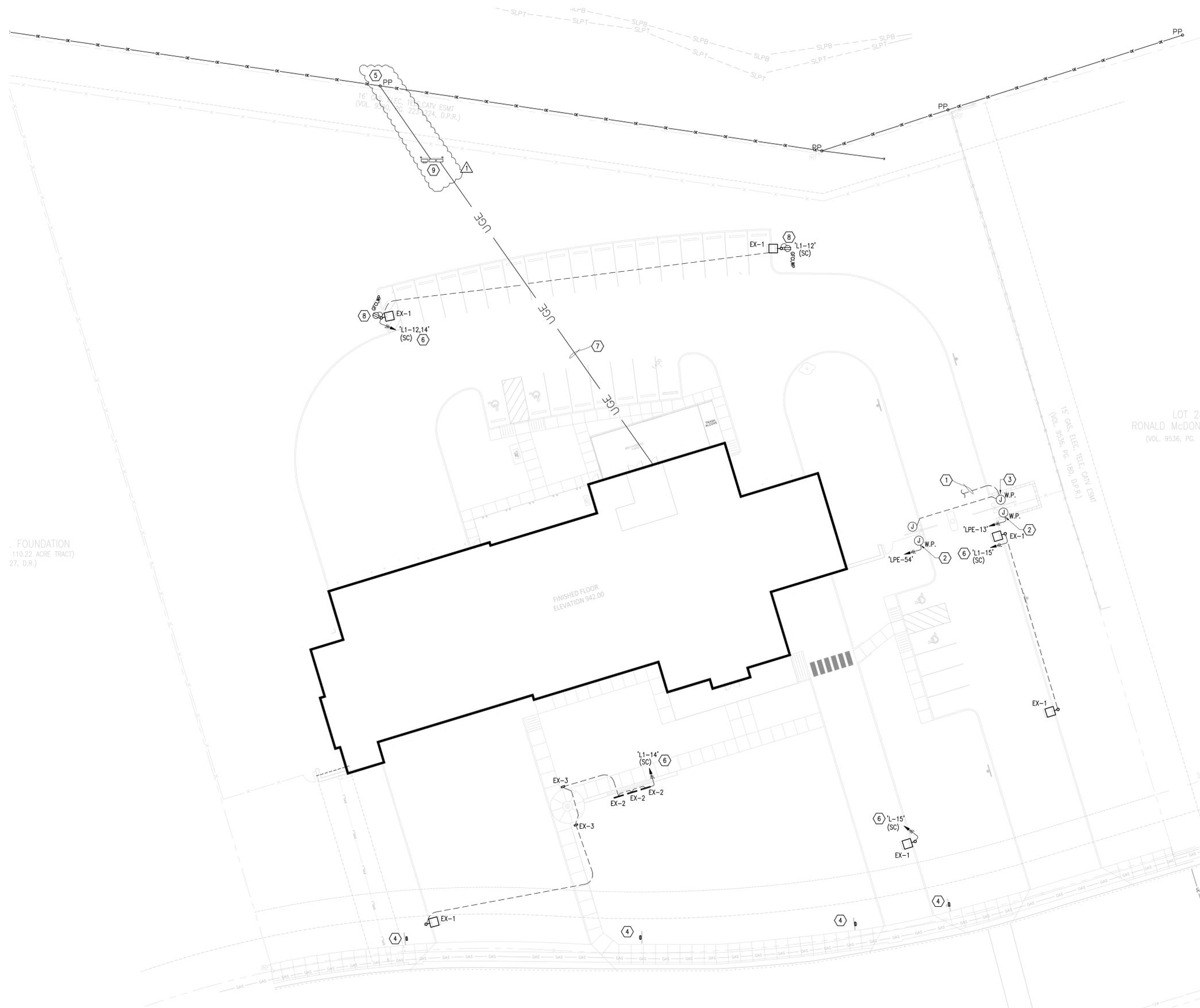
PROJECT NUMBER  
1219  
DATE  
02.13.2015  
SHEET NUMBER

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**LS.1**

Life Safety Plan

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**GENERAL NOTES: (THIS SHEET ONLY)**

1. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATIONS OF MECHANICAL/PLUMBING EQUIPMENT WITH OTHER DISCIPLINES.
3. CONDUIT LINES OF DEVICES ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND CHOOSE APPROPRIATE ROUTING CONDUIT ON PLANS IS NOT FEASIBLE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER.
4. COORDINATE ALL POWER DEVICES LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

**KEYED NOTES: (THIS SHEET ONLY)**

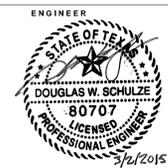
- 1 PROVIDE A 3/4" EMPTY CONDUIT WITH FULL CORD, U.G. FOR ELECTRICAL GATE CONTROL WIRING. EXTENT CONDUIT TO JOKER STAND. RE: 1/E301.
- 2 PROVIDE A SURFACE MOUNTED WEATHERPROOF, J-BOX AS CLOSE AS POSSIBLE TO MOTORIZED GATE. PROVIDE A 120V BRANCH CIRCUIT FROM PANEL 'LPE'.
- 3 PROVIDE A SURFACE MOUNTED WEATHERPROOF, J-BOX AS CLOSE AS POSSIBLE TO MOTORIZED GATE FOR CONTROL WIRING.
- 4 SOLAR POWERED PEDESTRIAN CROSSING SIGNAGE. PROVIDE UNDERGROUND 1" CONDUIT TO JOKER STAND FOR PUSHBUTTON CONTROL. RE: 3/E901.
- 5 NEW ELECTRICAL UTILITY POLE BY CPS ENERGY. RE: 1/E601 FOR ELECTRICAL SERVICE DETAIL.
- 6 PROVIDE 3#10, 1#10GND IN 3#4" CONDUIT. LIGHT FIXTURE SHALL BE ON PHOTOCELL ON/OFF. RECEPTACLES ON SEPARATE CIRCUIT WHERE INDICATED.
- 7 UNDERGROUND SECONDARY TO MAIN DISTRIBUTION PANEL 'MDP'. RE: 2/E601 FOR ELECTRICAL ONE RISER DIAGRAM FOR CONTINUATION.
- 8 RECEPTACLE SHALL BE POLE MOUNTED ABOVE POLE BASE.
- 9 ELECTRICAL SERVICE ON A GALVANIZED RACK. REFER TO 1/E601 FOR ELECTRICAL SERVICE DETAIL.



**PROJECT**  
**Fire Station No. 32**  
 4389 Charles Katz Drive, San Antonio, Texas

**REVISIONS**  
 Addendum no. 2 3/2/2015

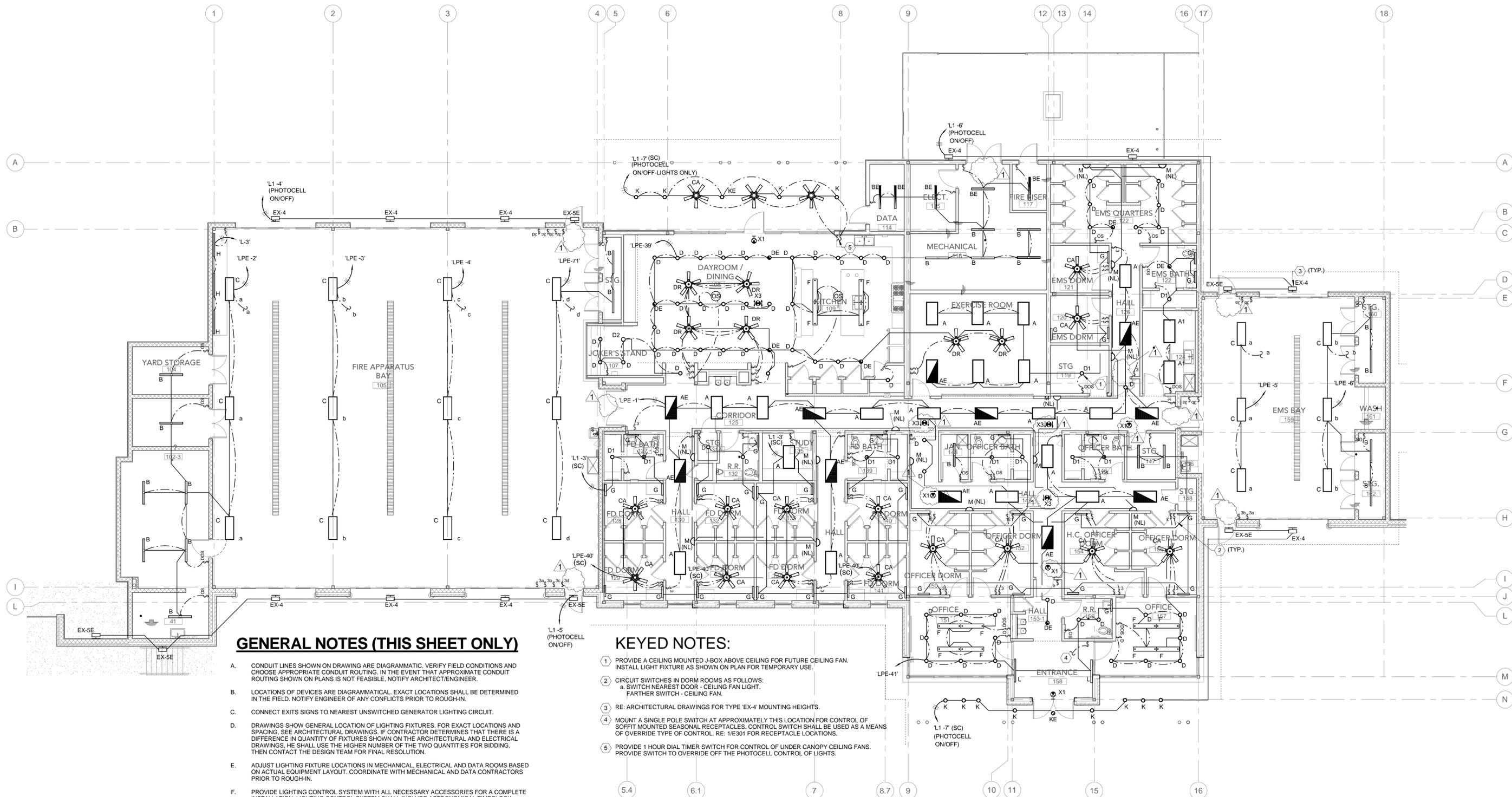
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**CNG engineering**  
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 Firm #: F-7964



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**100% CONSTRUCTION DOCUMENTS**

**E101**



**GENERAL NOTES (THIS SHEET ONLY)**

- A. CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. VERIFY FIELD CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE, NOTIFY ARCHITECT/ENGINEER.
- B. LOCATIONS OF DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
- C. CONNECT EXITS SIGNS TO NEAREST UNSWITCHED GENERATOR LIGHTING CIRCUIT.
- D. DRAWINGS SHOW GENERAL LOCATION OF LIGHTING FIXTURES. FOR EXACT LOCATIONS AND SPACING, SEE ARCHITECTURAL DRAWINGS. IF CONTRACTOR DETERMINES THAT THERE IS A DIFFERENCE IN QUANTITY OF FIXTURES SHOWN ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, HE SHALL USE THE HIGHER NUMBER OF THE TWO QUANTITIES FOR BIDDING, THEN CONTACT THE DESIGN TEAM FOR FINAL RESOLUTION.
- E. ADJUST LIGHTING FIXTURE LOCATIONS IN MECHANICAL, ELECTRICAL AND DATA ROOMS BASED ON ACTUAL EQUIPMENT LAYOUT. COORDINATE WITH MECHANICAL AND DATA CONTRACTORS PRIOR TO ROUGH-IN.
- F. PROVIDE LIGHTING CONTROL SYSTEM WITH ALL NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. LIGHTING CONTROL SYSTEM SHALL INCLUDE ASTRONOMICAL TIMECLOCK SYSTEM, HOUSEKEEPING OVERRIDE "ON" SWITCH CONTROL, AND EMCS CONNECTIVITY. PROVIDE THE FOLLOWING LIGHTING CONTROL SCHEME:
- G. EXTERIOR LIGHTING WILL BE CONTROLLED BY A COMMON PHOTOCELL CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.
- H. POWER SUPPLY FOR CEILING MOTION SENSORS SHOULD BE INSTALLED ADJACENT TO ENTRANCE DOOR.
- I. PROVIDE FIRE-RATED MATERIAL AROUND ALL PENETRATIONS CREATED BY CONDUITS, CABLE TRAYS, ETC. IN FIRE RATED PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATED AREAS.
- J. CONNECT BATTERY BALLAST TO UNSWITCHED HOT SERVING THE FIXTURE.
- K. ALL J-BOXES ADJACENT TO EACH OTHER SHALL BE MOUNTED AT THE SAME HEIGHT.

**KEYED NOTES:**

- 1 PROVIDE A CEILING MOUNTED J-BOX ABOVE CEILING FOR FUTURE CEILING FAN. INSTALL LIGHT FIXTURE AS SHOWN ON PLAN FOR TEMPORARY USE.
- 2 CIRCUIT SWITCHES IN DORM ROOMS AS FOLLOWS:  
a. SWITCH NEAREST DOOR - CEILING FAN LIGHT.  
FARTHER SWITCH - CEILING FAN.
- 3 RE: ARCHITECTURAL DRAWINGS FOR TYPE 'EX-4' MOUNTING HEIGHTS.
- 4 MOUNT A SINGLE POLE SWITCH AT APPROXIMATELY THIS LOCATION FOR CONTROL OF SOFFIT MOUNTED SEASONAL RECEPTACLES. CONTROL SWITCH SHALL BE USED AS A MEANS OF OVERRIDE TYPE OF CONTROL. RE: 1/301 FOR RECEPTACLE LOCATIONS.
- 5 PROVIDE 1 HOUR DIAL TIMER SWITCH FOR CONTROL OF UNDER CANOPY CEILING FANS. PROVIDE SWITCH TO OVERRIDE OFF THE PHOTOCELL CONTROL OF LIGHTS.

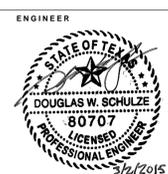
**1 ELECTRICAL LIGHTING PLAN**  
1/8" = 1'-0"



REVISIONS	ADDENDUM	DATE
1	Addendum no. 2	3/2/2015



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100% CONSTRUCTION DOCUMENTS **E201**



**PROJECT**  
**Fire Station No. 32**  
4919 Charles Katz Dr.  
San Antonio, Texas

**BEATY PALMER ARCHITECTS**  
DRAWN BY DT  
REVIEWED BY DS  
PROJECT NUMBER 1219  
DATE 02.10.15  
SHEET NUMBER  
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LIGHTING FIXTURE SCHEDULE										
TYPE	LAMPS	MOUNTING	MOUNT HEIGHT	VOLTS	WATTS	DESCRIPTION	MANUFACTURER/CATALOG NO.			
A	2-28W T8	RECESSED GRID	CEILING	120	56	2'X4' PRISMATIC LENSED STATIC TROFFER WITH SINGLE ELECTRONIC PROGRAM START BALLAST. PROVIDE #12/A125 PATTERN ACRYLIC LENS.	MERCURY LIGHTING - 35 SERIES			
AE	2-28W T8	RECESSED GRID	CEILING	120	56	SAME AS TYPE 'A' EXCEPT WITH BATTERY BACKUP BALLAST.	MERCURY LIGHTING - 35 SERIES			
A1	2-28W T8	RECESSED GRID	CEILING	120	56	SAME AS TYPE 'A' FIXTURE EXCEPT WITH OVERLAPPING FLANGE TRIM.	MERCURY LIGHTING - 35 SERIES			
B	2-28W T8 4100K	CHAIN HUNG	9' A.F.F.	120	56	4' NARROW STRIP FIXTURE ELECTRONIC INSTANT START BALLAST AND WIREGUARD OPTION.	MERCURY LIGHTING - MM-C, MM-P SERIES			
BE	2-28W T8 4100K	CHAIN HUNG	9' A.F.F.	120	56	SAME AS TYPE 'B' EXCEPT WITH A BATTERY BACKUP BALLAST.	MERCURY LIGHTING - MM-C, MM-P SERIES			
C	4-54W T5HO 4100K	SURFACE	CEILING	120	270	HIGH BAY LINEAR FLUORESCENT INDUSTRIAL LUMINAIRE WITH MEDIUM DISTRIBUTION. NO SHIELDING AND TWO (2) ELECTRONIC PROGRAM RAPID START BALLASTS. PROVIDE WITH 2-LAMP REMOTE EMERGENCY BALLAST. 24" - 3 BLADE FAN WITH LIGHT KIT.	MERCURY LIGHTING - HB80/FR SERIES			
CA	2-26W CFL	SURFACE	CEILING	120	143		EMERSON TILO CF130WW00			
D	1-26W TRT	RECESSED	CEILING	120	26	7" OPEN COMPACT FLUORESCENT DOWNLIGHT WITH SPECULAR CLEAR "ALZAK" FINISH. POLISHED FLANGED.	VANTAGE LIGHTING - A7HF			
DE	1-26W TRT	RECESSED	CEILING	120	26	SAME AS TYPE 'D' EXCEPT WITH EMERGENCY BATTERY BACKUP BALLAST	VANTAGE LIGHTING - A7HF			
DR	1-26W CFL	PENDANT	CEILING	120	120	52" - 3 BLADE FAN WITH LIGHT KIT	THE MODERN FAN COMPANY - NIMBUS			
D1	1-26W TRT	RECESSED	CEILING	120	26	7" TEMPERED CLEAR LENSED COMPACT FLUORESCENT DOWNLIGHT WITH OPTICS AND WHITE OPAL LENS. PROVIDE STRAIGHT POWER CORD FEED AND TAPERED END CAP.	VANTAGE LIGHTING - A7HF			
D2	1-26W TRT	RECESSED	CEILING	120	26	7" OPEN COMPACT FLUORESCENT WALLWASH DOWNLIGHT WITH SPECULAR CLEAR "ALZAK" FINISH. POLISHED FLANGED.	VANTAGE LIGHTING - A7HF			
F	2-26W T8 4100K	PENDANT	12" B.F.C.	120	56	CLASS 'A' DIRECT/INDIRECT PENDANT HUNG LIGHT FIXTURE WITH WHITE OPTICS AND WHITE OPAL LENS. PROVIDE STRAIGHT POWER CORD FEED AND TAPERED END CAP.	DAY-O-LITE G1-DI-6-2-T8-AC-W-UNV			
G	1-14W T5	WALL	84" A.F.F.	120	14	30" LUMINAIRE. OPAL WHITE ACRYLIC DIFFUSER PANELS. EXTRUDED ALUMINUM CORNER TRIM BARS. LIGHT SILVER HOUSING. INTEGRAL ELECTRONIC BALLAST. PROVIDE PULL CHAIN.	MANNING LIGHTING - LB-555			
H	2-28W T8	WALL	SEE ARCHITECTURAL	120	56	48" LUMINAIRE. DEDICATED WALL WASH TYPE FLUORESCENT LUMINAIRE. TRIANGULAR SHAPED FOR EVEN DISTRIBUTION.	MERCURY LIGHTING - M99-2-28-OCT-MRT-ELB-UNI			
K	1-32W CFL	RECESSED		120	32	DAMP LOCATION DOWNLIGHT	LUMUX W5500-PL32-120-BLACK			
KE	1-32W CFL	RECESSED		120	32	DAMP LOCATION DOWNLIGHT	LUMUX W5500-PL32-120-BLACK-IBP			
L	2-T5HO 4100K	WALL	10' A.F.F.	MVOLT	56	4' WALL MOUNT INDIRECT UPLIGHT.	DAY-O-LITE AD-FOB-I-2-T5HO-WM-W-UNV			
M	1-18W TT	RECESSED		120	18	RECESSED HOLE IN THE WALL LIGHT NICHE	ELP - HITW SERIES			
X1	RED LED	CANOPY MOUNTING KIT		120		SINGLE FACE, DIE-CAST ALUMINUM EXIT SIGN WITH UNIVERSAL FACEPLATES, WHITE STENCIL FACE, RED LETTER COLOR, AND WHITE HOUSING. 90-MINUTE NICKEL-CADMIUM BATTERY.	EMERGI-LITE WW-P-1-R			
X2	RED LED - (2) 12W	WALL MOUNTED		120	24W	SINGLE FACE, DIE-CAST ALUMINUM EXIT SIGN, WHITE FACE, RED LETTER COLOR, AND WHITE HOUSING. 90-MINUTE NICKEL-CADMIUM BATTERY. TWO HEADS WITH 12MM DIGITS	EMERGI-LITE W-PR-1224M-1-R-2-MK			
X3	RED LED	CANOPY MOUNTING KIT		120		DOUBLE FACE, DIE-CAST ALUMINUM EXIT SIGN WITH UNIVERSAL FACEPLATES, WHITE STENCIL FACE, RED LETTER COLOR, AND WHITE HOUSING. 90-MINUTE NICKEL-CADMIUM BATTERY.	EMERGI-LITE WW-P-2-R			
EX-1	1-200W LED	POLE RE: 2/E801	30'	MVOLT	200	DIE-CAST ALUMINUM ROADWAY MULTIPURPOSE LUMINAIRE, TYPE 3. DISTRIBUTION. 12" ARM MOUNT. MOUNT ON A 25'-0" SQUARE POLE.	LITHONIA LIGHTING - D-SERIES DSX2LED-100C-1000-40K-T4M-MVOLT			
EX2	1-75W LED	GROUND		MVOLT	75	DIE-CAST AND EXTRUDED ALUMINUM LINEAR WALL WASH FOR SIGN	CORONA CX-1-48-8-BW-6-75-U			
EX3	1-52W LED	GROUND MOUNT		MVOLT	52	FLAG POLE FLOODLIGHT WITH NARROW BEAM DISTRIBUTION. DIE-CAST ALUMINUM HOUSING. VISOR SHIELD FOR NARROW BEAM PROJECTION.	LYTESCAPER LSP2-52-CW-N11-U-DM-V			
EX-4	1-71W LED	WALL		MVOLT	71	WALL MOUNT HEAVY DUTY CAST ALUMINUM FIXTURE. TYPE 4 DISTRIBUTION. TEMPERED GLASS LENS. WET LOCATION RATED.	LITHONIA LIGHTING - D-SERIES DSXW2LED-1000-40KT4M-MVOLT			

EQUIPMENT CONNECTION SCHEDULE												
EQUIPMENT TAG	VOLTAGE / PHASE	KW HEAT	VOLTAGE / PHASE	MOTOR (HP)	EQUIPMENT (FLA)	EQUIPMENT (MCA)	OCF	DISCONNECTING MEANS	ENCLOSURE NEMA RATING	WIRE & CONDUIT	CIRCUIT NUMBER	NOTES
<b>FAN COIL UNITS</b>												
FCU-1	---	---	120/1	3/4	11	14	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-29'	3.5,7
FCU-2	---	---	120/1	1/2	9	11	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-31'	3.5,7
FCU-3	---	---	120/1	1/2	9	11	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-33'	3.5,7
FCU-4	---	---	120/1	3/4	11	14	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-35'	3.5,7
FCU-5	---	---	120/1	3/4	11	14	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-37'	3.5,7
FCU-6	---	---	120/1	1/2	9	11	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-39'	3.5,7
<b>CONDENSING UNITS</b>												
CU-1	---	---	208/1		22	28	45	240V, 60A, NF, HD	N3R	2#8, 1#10GND, IN 1"C.	'AC-2,4'	3.5
CU-2	---	---	208/1		14	18	20	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'AC-6,8'	3.5
CU-3	---	---	208/1		19	24	35	240V, 60A, NF, HD	N3R	2#8, 1#10GND, IN 3/4"C.	'AC-5,7'	3.5
CU-4	---	---	208/1		33	44	60	240V, 60A, NF, HD	N3R	2#4, 1#10GND, IN 1 1/2"C.	'AC-9,11'	3.5
CU-5	---	---	208/1		22	28	45	240V, 60A, NF, HD	N3R	2#10, 1#10GND, IN 3/4"C.	'AC-10,12'	3.5
CU-6	---	---	208/1		14	18	20	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'AC-13,15'	3.5
<b>MINI SPLIT SYSTEMS</b>												
MSCU-1	---	---	208/1		12	15	20	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'LPE-51,53'	3.5
<b>VENTILATION FANS</b>												
VF-1	---	---	120/1	1/10	1	1.3	15	20A RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-23'	3.5
MUA-1	---	---	208/1	1/4	3	4	20	20A RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-25,27'	3.5
<b>EXHAUST FANS</b>												
EF-1	---	---	120/1	1/8	2	3	15	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'P2-14'	3.5
KEP-1	---	---	120/1	3/4	13.8	17.2	20	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'P2-30'	
<b>ENERGY RECOVERY UNIT</b>												
ERV-1	---	---	208/1	(2) 0.5	10.4	13	20	20A MOTOR RATED SWITCH	N3R	2#10, 1#10GND, IN 3/4"C.	'P2-26,28'	3
<b>GAS UNIT HEATERS</b>												
IUH-1A	--	--	120/1		1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-17'	3
IUH-1B	--	--	120/1		1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-19'	3
IUH-1C	--	--	120/1		1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-38'	3
IUH-2	--	--	120/1		1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-21'	3
<b>ELECTRIC UNIT HEATERS</b>												
EUH-1	208/1	3	---	---	14	18	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-10,12'	3
<b>ELECTRIC HEATING COILS</b>												
EDH-01	208/1	2	---	---	9.6	12	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-9,11'	3
EDH-02	208/3	14	---	---	66.0	82	100	240V, 100A, NF, HD	N1	3#2, 1#8GND, IN 1 1/2"C.	'MDP-7'	3
<b>ELECTRIC WATER HEATERS</b>												
EW-1	208/1	2	---	---	7	9	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-18,20'	3
EW-2	208/1	2	---	---	7	9	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P2-32,34'	3
<b>GAS WATER HEATERS</b>												
GWH-1	120/1	-	---	---	1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P1-39'	3
GWH-2	120/1	-	---	---	1	1	15	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'P1-41'	3
<b>AIR SCRUBBERS</b>												
AS-01	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-45'	3
AS-02	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-44'	3
AS-03	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-46'	3
AS-04	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-47'	3
AS-05	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-48'	3
AS-06	---	---	120/1		8	10	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-49'	3
AS-07	---	---	120/1		8.0	10.0	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-67'	3
AS-08	---	---	120/1		8.0	10.0	20	20A MOTOR RATED SWITCH	N1	2#10, 1#10GND, IN 3/4"C.	'LPE-69'	3

NOTES:

- STARTER PROVIDED, INSTALLED AND WIRED THROUGH DIVISION 26.
- VFD PROVIDED BY DIVISION 25. INSTALL AND WIRE THROUGH DIVISION 26.
- DISCONNECT SWITCH PROVIDED, INSTALLED, AND WIRED THROUGH DIVISION 26.
- CONTROL PANEL PROVIDED BY DIVISION 25. INSTALL AND WIRE THROUGH DIVISION 26.
- CONTROLS PROVIDED BY DIVISION 25. INSTALL AND WIRE THROUGH DIVISION 26.
- PROVIDE POWER CONNECTION BETWEEN INDOOR AND OUTDOOR UNIT PER MECHANICAL DRAWINGS/EQUIPMENT CONNECTION SCHEDULE
- INSTALL SMOKE DETECTORS AS REQUIRED BY MECHANICAL. COORDINATE CONTROLS WITH FIRE ALARM FOR FUNCTIONALITY.

GENERAL NOTES:

- VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL / PLUMBING EQUIPMENT SUBMITTALS PRIOR TO ELECTRICAL ROUGH-IN.

25-Feb



**PROJECT**  
**Fire Station No. 32**  
 4389 Charles Katz Drive, San Antonio, Texas

REVISIONS  
 Addendum no. 2 3/2/2015

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100% CONSTRUCTION DOCUMENTS

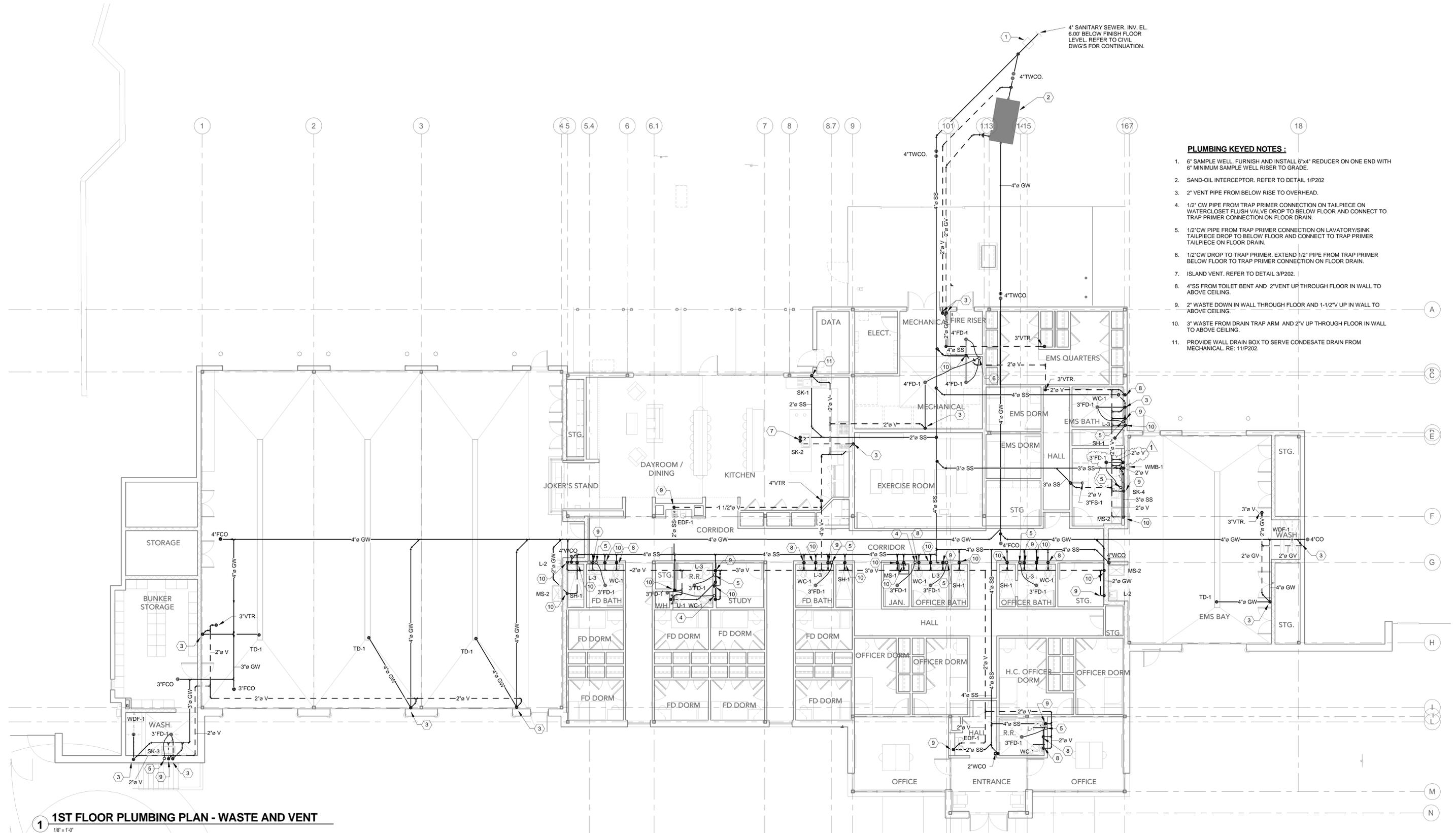


PANEL 'L1'												
PROJECT :	Fire Station no. 32	MAIN CIRCUIT BREAKER : --	ENCLOSURE : NEMA 1									
PROJECT # :	0024-12	MAIN LUGS ONLY : 100A	MOUNTING : SURFACE									
LOCATION :	ELECT. RM.	BUSSING : 100A	CB TYPE : BOLT-ON									
NOTES :		VOLTAGE : 208/120V, 3PH, 4W	PROVIDE : NEUTRAL BUS									
		INTERRUPTING : 10kAIC	GROUND BUS									
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	CORRIDOR LED SCONCES	120	1	A			SPARE	20	1	2
3	20	1	FIRE APPARATUS BAT BENCH LTG.	224	1	B	2	600	FIRE APPARATUS BAT EXT. WALL	20	1	4
5	20	1	FIRE APPARATUS BAT EXT. WALL	610	2	C	2	600	NORTH END LED WALL PACKS	20	1	6
7	20	1	NORTH END EXIT CANOPY LTG.	652	2	A			SPARE	20	1	8
9	20	1	SPARE			B			SPARE	20	1	10
11	20	1	SPARE			C	0	360	POLE MOUNTED RECEPTACLES	20	1	12
13	20	1	SPARE			A	2	800	EXTERIOR SITE LTG.	20	1	14
15	20	1	EXTERIOR SITE LTG.	600	2	B			SPARE	20	1	16
17	20	1	SPARE			C			SPARE	20	1	18
19	20	1	SPARE			A			SPARE	20	1	20
21	20	1	SPARE			B			SPARE	20	1	22
23	20	1	SPARE			C			SPARE	20	1	24
25	20	1	SPARE			A			SPARE	20	1	26
27	20	1	SPARE			B			SPARE	20	1	28
29	20	1	SPARE			C			SPARE	20	1	30
31	20	1	SPARE			A			SPARE	20	1	32
33	20	1	SPARE			B			SPARE	20	1	34
35	20	1	SPARE			C			SPARE	20	1	36
37	20	1	SPARE			A			SPARE	20	1	38
39	20	1	SPARE			B			SPARE	20	1	40
41	20	1	SPARE			C			SPARE	20	1	42
			PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS	NOTES :			
			PHASE A	1,572	-	-	1,572	1,934	1. PROVIDE FEED THRU LUGS			
			PHASE B	1,424	-	-	1,424	1,752				
			PHASE C	1,570	-	-	1,570	1,932				
			TOTAL	4,566	-	-	4,566	5,618	REVISIONS:			CNG ENGINEERING, PLLC. R3.0

PANEL 'P1'												
PROJECT :	Fire Station no. 32	MAIN CIRCUIT BREAKER : --	ENCLOSURE : NEMA 1									
PROJECT # :	0024-12	MAIN LUGS ONLY : 150A	MOUNTING : SURFACE									
LOCATION :	ELECT. RM.	BUSSING : 225A	CB TYPE : BOLT-ON									
NOTES :		VOLTAGE : 208/120V, 3PH, 4W	PROVIDE : NEUTRAL BUS									
		INTERRUPTING : 10kAIC	GROUND BUS									
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	KITCHEN RECEPTACLES	900	0	A			SPARE	20	1	2
3	20	1	OFFICE RECEPTACLES	900	0	B	0	900	CORRIDOR RECEPTACLES	20	1	4
5	20	1	OFFICERS DORMS RECEPTACLES*	900	0	C	0	900	OFFICE RECEPTACLES	20	1	6
7	20	1	OFFICERS DORMS RECEPTACLES*	900	0	A	3	1,200	MOTORIZED ENTRANCE GATE	20	1	8
9	20	1	OFFICER BATHS RECEPTACLES	900	0	B			SPARE	20	1	10
11	20	1	CORRIDOR RECEPTACLES	900	0	C	7	600	KITCHEN DISPOSAL	20	1	12
13	20	1	FD DORMS RECEPTACLES*	1,260	0	A	0	900	FD DORMS RECEPTACLES	20	1	14
15	20	1	FD DORMS RECEPTACLES*	900	0	B	0	900	FD DORMS RECEPTACLES*	20	1	16
17	20	1	FD DORMS RECEPTACLES*	1,260	0	C	0	1,200	EXERCISE ROOM TREADMILL	20	1	18
19	20	1	EXERCISE ROOM TREADMILL	1,200	3	A	0	1,200	EXERCISE ROOM TREADMILL	20	1	20
21	20	1	EXERCISE ROOM TREADMILL	1,200	3	B	0	540	EXERCISE ROOM RECEPTACLES	20	1	22
23	20	1	EMS QUARTERS RECEPTACLES	1,080	0	C	0	720	LAUNDRY/DORM RECEPTACLES	20	1	24
25	20	1	LAUNDRY WASHER	1,200	3	A	3	2,200	LAUNDRY DRYER	30	2	26
27	20	1	EMS DORMS RECEPTACLES	1,080	0	B	3	2,200	LAUNDRY DRYER	20	1	28
29	20	1	EMS DORMS RECEPTACLES	1,080	0	C	7	600	KITCHEN DISPOSAL	20	1	30
31	20	1	KITCHEN GRILLE	1,600	7	A			SPARE	20	1	32
33	20	1	SPARE			B	0	540	DINING AREA RECEPTACLES	20	1	34
35	20	1	ELECTRICAL DRINKING FOUNTAIN	300	3	C	0	300	ELECTRICAL DRINKING FOUNTAIN	20	1	36
37	20	1	ELECTRICAL ROOM RECEPTACLES	540	0	A	3	1,200	LAUNDRY RM. VENDING MACHINE	20	1	38
39	20	1	SPARE	120	0	B			SPARE	20	1	40
41	20	1	SPARE	120	0	C			SPARE	20	1	42
43	20	1	SPARE						SPARE	20	1	44
45	20	1	SPARE						SPARE	20	1	46
47	20	1	SPARE						SPARE	20	1	48
49	20	1	SPARE						SPARE	20	1	50
51	20	1	SPARE						SPARE	20	1	52
53	20	1	SPARE						SPARE	20	1	54
55	20	1	SPARE						SPARE	20	1	56
57	20	1	SPARE						SPARE	20	1	58
59	20	1	SPARE						SPARE	20	1	60
			PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS	NOTES :			
			PHASE A	14,300	-	-	14,300	11,622	1. PROVIDE FEED THRU LUGS			
			PHASE B	10,180	-	-	10,180	8,273	* PROVIDE ARC-FAULT TYPE CIRCUIT BREAKER			
			PHASE C	9,960	-	-	9,960	8,095				
			TOTAL	34,440	-	-	34,440	27,990	REVISIONS:			CNG ENGINEERING, PLLC. R3.0

PANEL 'AC'												
PROJECT :	Fire Station no. 32	MAIN CIRCUIT BREAKER : -	ENCLOSURE : NEMA 3R									
PROJECT # :	0024-12	MAIN LUGS ONLY : 225A	MOUNTING : SURFACE									
LOCATION :	EQUIPMENT YARD	BUSSING : 225A	CB TYPE : BOLT-ON									
NOTES :		VOLTAGE : 208/120V, 3PH, 4W	PROVIDE : NEUTRAL BUS									
		INTERRUPTING : 10kAIC	GROUND BUS									
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	SPARE	1,560	6	A	6	2,288	CU-1	45	2	2
3	20	1	SPARE	1,560	6	B	6	2,288				4
5	35	2	CU-3	1,976	6	C	6	1,456	CU-2	20	2	6
7	20	1	SPARE	1,976	6	A	6	1,456				8
9	60	2	CU-4	3,432	6	B	6	2,330	CU-5	35	2	10
11	20	1	SPARE	3,432	6	C	6	2,330				12
13	20	2	CU-6	1,456	6	A	3	206	IRRIGATION CONTROLLER	20	1	14
15	20	1	SPARE	1,456	6	B	0	180	GFCI RECEPTACLE	20	1	16
17	20	1	SPARE			C			SPARE	20	1	18
19	20	1	SPARE			A			SPARE	20	1	20
21	20	1	SPARE			B			SPARE	20	1	22
23	20	1	SPARE			C			SPARE	20	1	24
25	20	1	SPARE			A			SPARE	20	1	26
27	20	1	SPARE			B			SPARE	20	1	28
29	20	1	RECEPTACLE	360	0	C			SPARE	20	1	30
			PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS	NOTES :			
			PHASE A	8,936	-	-	8,936	8,936	1. PROVIDE FEED THRU LUGS			
			PHASE B	11,246	-	-	11,246	11,246				
			PHASE C	9,554	-	-	9,554	80				
			TOTAL	29,736	-	-	29,736	83	REVISIONS:			CNG ENGINEERING, PLLC. R3.0

PANEL 'P2'												
PROJECT :	Fire Station no. 32	MAIN CIRCUIT BREAKER : --	ENCLOSURE : NEMA 1									
PROJECT # :	0024-12	MAIN LUGS ONLY : 150A	MOUNTING : SURFACE									
LOCATION :	ELECT. RM.	BUSSING : 225A	CB TYPE : BOLT-ON									
NOTES :		VOLTAGE : 208/120V, 3PH, 4W	PROVIDE : NEUTRAL BUS									
		INTERRUPTING : 10kAIC	GROUND BUS									
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	FIRE APPARATUS RECEPTACLES	900	0	A	0	720	FIRE APPARATUS RECEPTACLES	20	1	2
3	20	1	STORAGE ROOM RECEPTACLES	900	0	B	0	540	EXTERIOR GFCI RECEPTACLES	20	1	4
5	20	1	PHOENIX TIMER	300	0	C			SPARE	20	1	6
7	20	1	SEASONAL GFCI RECEPTACLES	740	0	A	0	720	EXTERIOR GFCI RECEPTACLES	20	1	8
9				2,500	5	B	5	1,456				10
11	30	2	EDH-01	2,500	5	C	5	1,456	EUH-1	20	2	12
13	20	1	SPARE			A	4	240	EF-1	20	1	14
15	20	1	SPARE			B			SPARE	20	1	16
17	20	1	IUH-1A	120	4	S	9	728				18
19	20	1	IUH-1B	120	4	A	9	728	EWI-1	20	2	20
21	20	1	IUH-2	120	4	B	5	1,500				22
23	20	1	VF-1	120	4	C	5	1,500	EUH-1	20	2	24
25				312	4	A	4	1,082				26
27	20	2	MUA-1	312	4	B	4	1,082	ERV-1	20	2	28
29	20	1	FCU-1	1,320	4	C	4	1,656	KEF-1	20	1	30
31	20	1	FCU-2	1,080	4	A	9	728	EWI-2	20	2	32
33	20	1	FCU-3	1,080	4	B	9	728				34
35	20	1	FCU-4	1,320	4	C	0	360	EXTERIOR RECEPTACLES	20	1	36
37	20	1	FCU-5	1,320	4	A	4	80	IUH-1C	20	1	38
39	20	1	FCU-6	1,080	4	B			SPARE	20	1	40
41	20	1	SPARE			C			SPARE	20	1	42
			PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS	NOTES :			
			PHASE A	8,770	-	-	8,770	9,840	1. PROVIDE FEED THRU LUGS			
			PHASE B	11,298	-	-	11,298	12,677				
	</											



- PLUMBING KEYED NOTES:**
- 6" SAMPLE WELL. FURNISH AND INSTALL 6"x4" REDUCER ON ONE END WITH 6" MINIMUM SAMPLE WELL RISER TO GRADE.
  - SAND-OIL INTERCEPTOR. REFER TO DETAIL 1/P202
  - 2" VENT PIPE FROM BELOW RISE TO OVERHEAD.
  - 1/2" CW PIPE FROM TRAP PRIMER CONNECTION ON TAILPIECE ON WATERCLOSET FLUSH VALVE DROP TO BELOW FLOOR AND CONNECT TO TRAP PRIMER CONNECTION ON FLOOR DRAIN.
  - 1/2" CW PIPE FROM TRAP PRIMER CONNECTION ON LAVATORY/SINK TAILPIECE DROP TO BELOW FLOOR AND CONNECT TO TRAP PRIMER TAILPIECE ON FLOOR DRAIN.
  - 1/2" CW DROP TO TRAP PRIMER. EXTEND 1/2" PIPE FROM TRAP PRIMER BELOW FLOOR TO TRAP PRIMER CONNECTION ON FLOOR DRAIN.
  - ISLAND VENT. REFER TO DETAIL 3/P202.
  - 4" SS FROM TOILET BENT AND 2" VENT UP THROUGH FLOOR IN WALL TO ABOVE CEILING.
  - 2" WASTE DOWN IN WALL THROUGH FLOOR AND 1-1/2" V UP IN WALL TO ABOVE CEILING.
  - 3" WASTE FROM DRAIN TRAP ARM AND 2" V UP THROUGH FLOOR IN WALL TO ABOVE CEILING.
  - PROVIDE WALL DRAIN BOX TO SERVE CONDENSATE DRAIN FROM MECHANICAL. RE: 11/P202.

**1 1ST FLOOR PLUMBING PLAN - WASTE AND VENT**  
1/8" = 1'-0"



**PROJECT**  
**Fire Station No. 32**  
4919 Charles Katz Dr.  
San Antonio, Texas

**REVISIONS**

1	Addendum no. 2	3/2/2015
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**PROJECT NUMBER** 1219  
**DATE** 02.10.15  
**SHEET NUMBER** P101

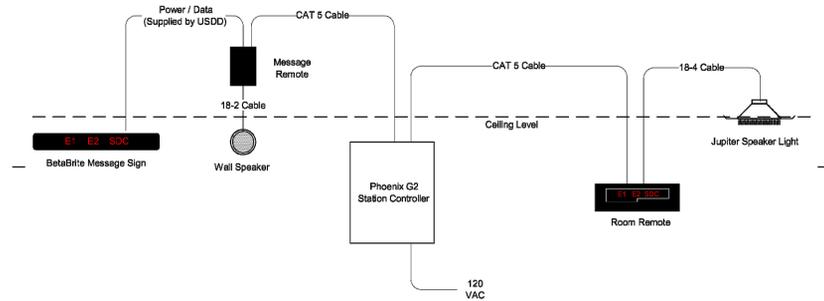
**DRAWN BY** AC  
**REVIEWED BY** SM

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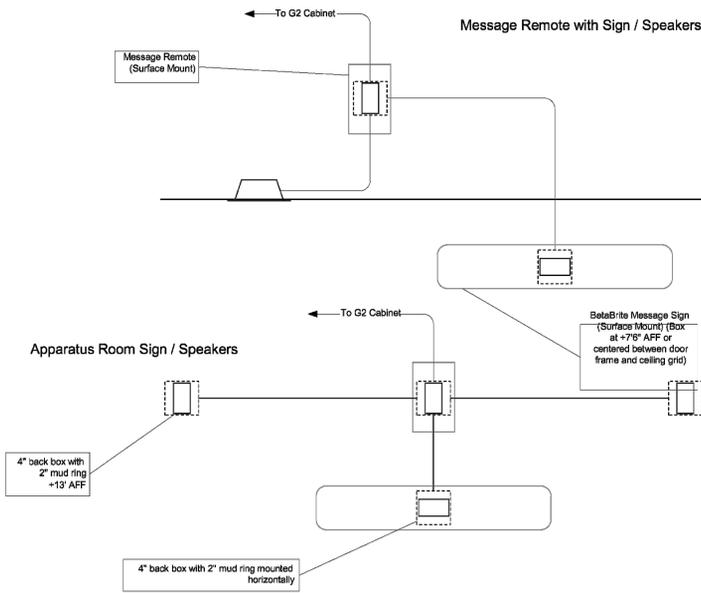
100% CONSTRUCTION DOCUMENTS

**GENERAL NOTES: (THIS SHEET ONLY)**

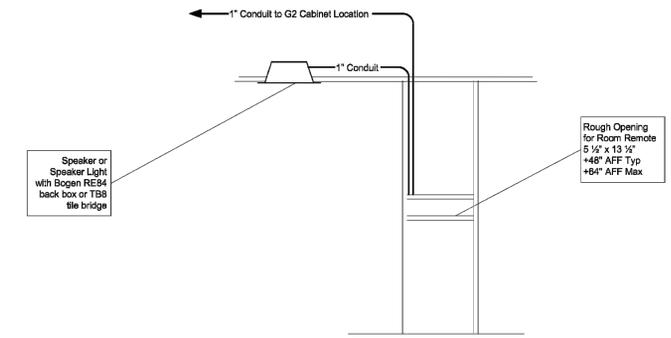
1. FIRE STATION ALERTING SYSTEM (PHOENIX SYSTEM) IS DESIGNED BY US DIGITAL DESIGN. COMPLETE PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED. VENDOR OF PHOENIX ALERTING SYSTEM EQUIPMENT SHALL BE US DIGITAL DESIGN. INSTALLATION OF SYSTEM SHALL BE PERFORMED BY US DIGITAL DESIGN (USDD) APPROVED INSTALLER ONLY. CONTACT USDD REPRESENTATIVE ERICK HANSON AT 877-551-8733 FOR COORDINATION.
2. COMPLETE INSTALLATION OF FIRE ALERTING SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, BOXES, SUPPORT, PHOENIX EQUIPMENT DEVICES, AND PROGRAMMING SHALL BE INCLUDED IN THIS CONTRACT. COORDINATE SYSTEM INSTALLATION WITH USDD APPROVED INSTALLER PRIOR TO ROUGH-IN.
3. INSTALLATION DRAWING DETAILS WERE OBTAINED FROM US DIGITAL DESIGN. CONDUIT REQUIREMENTS HAVE BEEN UPDATED TO REFLECT MINIMUM 1" CONDUIT FOR ALL SYSTEMS.
4. COORDINATE ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS WITH WITH US DIGITAL DESIGN INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
5. REFER TO FINAL USDD SYSTEM INSTALLATION DRAWINGS FOR FINAL CONDUIT AND CABLING REQUIREMENTS.



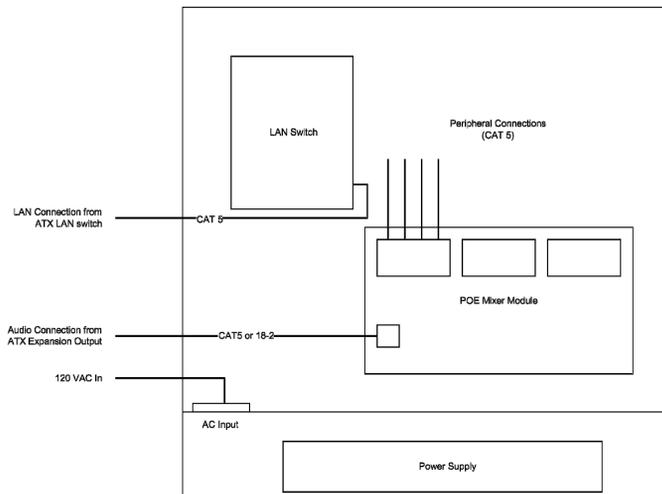
**1 PHOENIX G2 CABLING OVERVIEW**  
NOT TO SCALE



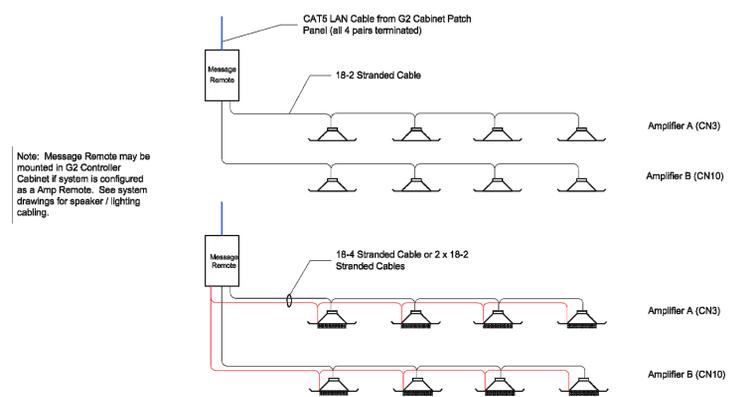
**2 MESSAGE REMOTE SUGGESTED CONDUIT LAYOUT**  
NOT TO SCALE



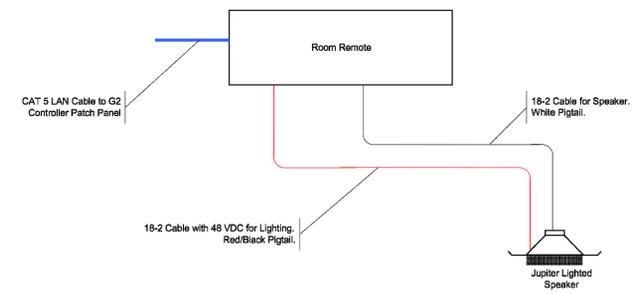
**3 ROOM REMOTE SUGGESTED CONDUIT LAYOUT**  
NOT TO SCALE



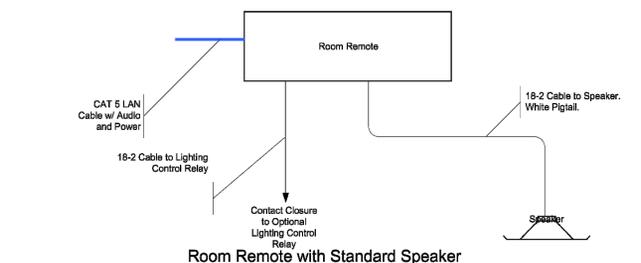
**3 EXPANSION PANEL CONNECTIONS**  
NOT TO SCALE



**5 MESSAGE REMOTE TO SPEAKER AND JUPITER SPEAKER INTERCONNECTION**  
NOT TO SCALE



Room Remote with Jupiter Speaker Light



Room Remote with Standard Speaker

**6 ROOM REMOTE FOR STANDARD & JUPITER SPEAKERS**  
NOT TO SCALE



PROJECT  
**Fire Station No. 32**  
4389 Charles Katz Drive, San Antonio, Texas

REVISIONS

CONSULTANT

ENGINEER

ARCHITECT

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REVIEWED BY

**BEATY PALMER ARCHITECTS**  
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IT404



City of San Antonio

## TRANSPORTATION AND CAPITAL IMPROVEMENTS

RECEIPT OF ADDENDUM NUMBER(S) 2 IS HEREBY ACKNOWLEDGED FOR THE FIRE STATION #  
32 REPLACEMENT, PROJECT NO: 20-00015

FOR WHICH PROPOSALS WILL BE OPENED AND READ ALOUD ON MARCH 10, 2015

**\*\*\*THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH  
THE PROPOSAL PACKAGE.\*\*\***

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name/Title