



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS



ADDENDUM No. 2

FORMAL REQUEST FOR COMPETITIVE SEALED PROPOSAL (RFCSP)

PROJECT NAME: FIRE STATION # 2 REPLACEMENT, Project No. 20-00011

DATE: May 17, 2016

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.

- I. **RFCSP:** Request For Competitive Sealed Proposal provided by the City of San Antonio Transportation & Capital Improvements. See attached.

- II. **General Contractors Bid Questions:**

Question

Specification 06 40 23 is mentions teak wood on exposed and semi-exposed wood surfaces. We would like to verify that it is in fact the desired material.

Response

Teak veneer on plywood core. Option to be included is rift cut white oak with a teak stain.

Question

Specification 07 24 19.3.7C indicates a double layer of mesh. Usually second layers of mesh are called for to reinforce the lower levels of EIFS against impact, but there are other finishes specified in those areas. Can you direct us to what extent or perhaps at what height the mesh is to be applied, and is there a particular weight mesh required for the second layer?

Response

All EIFS is high impact per Owner request. The mesh gauge varies per manufacturer but must meet the 2.1 PERFORMANCE REQUIREMENTS of the specifications.

Question

When reviewing the EIFS elevations, we noticed that only the vertical lines are called out as "control joints." Are the horizontal lines also control joints? Further, we noticed

that the vertical control joints are called to have sealant (9/A 801). The only section thru an horizontal joint is in 8/A701, which calls for a v-groove. The v-grooves are generally typical for both horizontal and vertical joints in EIFS assemblies, so we would like to verify exactly what is desired.

Response

Use control joints at all vertical per 9/A801. Use "V" reveals at all horizontals per 8/A701.

Question

We noticed a proposal for the USDD system, but previous stations have also included an allowance for this work. Should we carry the amount shown on the proposal, or will an allowance be issued?

Response

Upcoming addendum will include a \$120,000 allowance for USDD.

Question

Are the 3" corrugated concrete veneer panels intended to be site cast panels or architectural precast panels?

Response

The intent is to be site cast from the same concrete as the tilt wall panels. If concrete can be matched to the tilt wall by casting in a more controlled environment offsite that will be acceptable. Samples/mockup will have to be provided for approval.

Question

Specification section 03 30 00.2.1C suggests that forming of exposed columns should correspond to "specific formwork surface class." What is the level of finish intended for the exposed concrete columns (ex. Class A Architectural, Class B, etc.) Will there seams be allowed, etc.?

Response

Cylindrical formwork that achieves the "Class 1 or better" in 2.1.A.1.c is acceptable.

Question

What is intended for Keyed Note #9 on sheet E101?

Response

Keynote 9 should read "8".

Question

2.1 MANUFACTURERS

Clarify: Are these "Acceptable Manufacturers" or "Available Manufacturers" per 016000? ADD: Thor Systems (cut sheet attached)

Response

THOR is not an acceptable manufacturer. SPD products will be furnished with the electrical gear.

Question

2.1.A & 2.2.A

Per IEEE Std 1100-2005, are external to the switchboard(s) or panelboard(s) SPD acceptable?

Response

External SPDs are not acceptable.

Question

2.2.A.5

Clarify the required surge current rating?

2.2.A.5 needs to be edited for clarity.

200kA per mode (400kA per phase) is recommended for a 800 Amp, 208Y/120v Service Entrance.

Response

400kA is the required surge rating

5. SPD shall meet or exceed the following criteria:

- a. Maximum surge current capability shall be ~~[200kA]~~ ~~[300kA]~~ [400kA] ~~[500kA]~~ per phase.
- b. UL 1449 - Third Edition Revision; effective September 29, 2009 Voltage Protection Ratings shall not exceed the following:

<u>VOLTAGE</u>	<u>L-N</u>	<u>L-G</u>	<u>N-G</u>	<u>L-L</u>	<u>MCOV</u>
208Y/120	700V	700V	700V	1200V	150V
480Y/277	1200V	1200V	1200V	2000V	320V

6. UL 1449 Listed Maximum Continuous Operating Voltage (MCOV) (verifiable at [UL.com](http://www.ul.com)):

Question

2.2.A.10

Is this needed as there is a dedicated breaker feeding the SPD?

The added impedance will have a negative effect on the performance of any SPD.

Response

No change

Question

2.2A.11.d

Clarify the surge counter requirement.

Response

A surge counter is required to be provided with the SPD

Question

2.2.A.13

Warranty; should the warranty cover only manufacturer workmanship and defects, or include any end-of-life electrical event including lightning?

Response

No

Question

Is a pro-rated warranty acceptable?

Response

No

Question

2.2.B and 2.2.C are specified but not used. Is this correct?

Response

These do not apply

III. Changes to the Specifications

1. 01 21 00 ALLOWANCES - Add a \$120,000.00 allowance for USDD.
2. 06 40 23 ARCHITECTURAL WOOD WORK - Add option for wood veneer type.

IV. Changes to Architectural Drawings

1. Replace Drawing Sheet A201
 - a. Add mirrors in EXERCISE 138.

V. Changes to Mechanical Drawings

1. Replace Drawing Sheet M201
 - a Revised mechanical keyed note #10.
2. Replace Drawing Sheet M201A
 - b Revised mechanical keyed note #10.

VI. Changes to Electrical Drawings

1. Replace Drawing Sheet E201A
 - a: Replaced the type 'D' with a type 'D2' wallwash type fixture.
 - b: Relocated the Type 'L' lighting fixtures in the Foyer.
2. Replace Drawing Sheet E201A
 - a. Replaced the type 'D' with a type 'D2' wallwash type fixture.
 - b. Relocated the Type 'L' lighting fixtures in the Foyer.
3. Replace Drawing Sheet E301
 - a. Modified key notes no. 5 and no. 18.

- b. Added key notes no. 19 to identify the warning flash signs antenna and key note no. 20 to specify the power device to be a USB/Power charging device.
- c. Removed three (3) cord reels to comply with the required reel cords.
- d. Key noted all locations of receptacle/USB charging devices.
- e. Key noted location of the warning flash sign antenna.
- f. Added j-box above ceiling at west end of building for GPS Antenna.
- g. Added a flush mounted j-box with a 120v branch circuit for the gas solenoid panel.

4. Replace Drawing Sheet E301A

- a. Modified key notes no. 5 and no. 18.
- b. Added key notes no. 19 to identify the warning flash signs antenna and key note no. 20 to specify the power device to be a USB/Power charging device.
- c. Removed three (3) cord reels to comply with the required reel cords.
- d. Key noted all locations of receptacle/USB charging devices.
- e. Key noted location of the warning flash sign antenna.
- f. Added j-box above ceiling at west end of building for GPS Antenna.
- g. Added a flush mounted j-box with a 120v branch circuit for the gas solenoid panel.

5. Replace Drawing Sheet E501

- a. Added two (2) dedicated receptacles for the Phoenix Alerting System.

6. Replace Drawing Sheet E701

- a. Added the Type 'L' fixture specification to the lighting fixture schedule.
- b. Modified type 'EX-5E' to comply with the new specified lighting fixture.
- c. Modified the Panel Schedule 'LPE'.

VII. Changes to IT Drawings

1. Replace Drawing Sheet IT401

- a. Added keyed notes 26 and 27.
- b. Modified phone outlet description on legend to read as mounted at 48" aff.
- c. Added j-boxes to antenna locations in the east and west end of the bldg.
- d. Modified various notes for read as "cables" rather than "drops".
- e. Added a j-box in the dayroom for an av-in location.
- f. Relocated mud ring devices.
- g. Modified key note no. 9 to read as the sign mounted at 9'-0".
- h. Added key note to drawing for typical TV outlets as being 12" to 18" from wall.

2. Replace Drawing Sheet IT401A
 - a. Added keyed notes 26 and 27.
 - b. Modified phone outlet description on legend to read as mounted at 48"aff.
 - c. Added j-boxes to antenna locations in the east and west end of the bldg.
 - d. Modified various notes for read as "cables" rather than "drops".
 - e. Added a j-box in the dayroom for an av-in location.
 - f. Relocated mud ring devices.
 - g. Modified key note no. 9 to read as the sign mounted at 9'-0".
 - h Added key note to drawing for typical TV outlets as being 12" to 18" from wall.

VIII. Changes to Plumbing Drawings

1. Replace Drawing Sheet P102
 - a. Revised plumbing keyed note #20 to specify the ASCO Relay and Gas Valve Control Panel Model 108D90C.
2. Replace Drawing Sheet P102A
 - a. Revised plumbing keyed note #20 to specify the ASCO Relay and Gas Valve Control Panel Model 108D90C.
3. Replace Drawing Sheet P202
 - a. Revised the Plumbing Fixture Schedule for L-2 to reflect the removal of the foot pedal accessory.
 - b. Revised the Plumbing Fixture Schedule for TFH-1 to reflect the addition of the Watts Series LF007 backflow preventer.

IX. Revise the Proposal Deadline

1. The Request for Competitive Sealed Proposal opening date has been extended to Thursday, May 26, 2016 at 10:00 AM.

This Addendum consists of seven (7) addendum description pages, twenty-two (22) pages of the RFSCP form, ten (10) pages of revised specification and fourteen (14) revised full size drawing sheets (30x42 format).

END OF ADDENDUM No. 2



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RECEIPT OF ADDENDUM NUMBER(S) 2 IS HEREBY ACKNOWLEDGED FOR THE FIRE STATION # 2 REPLACEMENT, PROJECT NO: 20-00011

FOR WHICH PROPOSALS WILL BE OPENED AND READ ALOUD ON MAY 26, 2016.

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

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**REQUEST FOR COMPETITIVE SEALED PROPOSALS:
FOR
Fire Station 2 Replacement
(Project No. 20-00011)**

(RFCSP: TCI04272016DV)

Notice Regarding Prohibition on Campaign or Officeholder Contributions for Individuals and Entities Seeking High-Profile Contracts. Under Section 2-309 of the San Antonio Municipal Campaign Finance Code, the following are prohibited from making a campaign or officeholder contribution to any member of the San Antonio City Council, candidate for the San Antonio City Council or political action committee that contributes to a San Antonio City Council election, from the tenth (10th) business day after a project solicitation has been released until thirty (30) calendar days after the project has been awarded by the San Antonio City Council (hereafter referred to as the "black out period"):

1. Legal signatory of a high-profile contract;
2. Any individual seeking a high-profile contract;
3. Any owner or officer of an entity seeking a high-profile contract;
4. The spouse of any of these individuals;
5. Any attorney, lobbyist or consultant retained to assist in seeking contract.

A high-profile contract cannot be awarded to an individual or entity if a prohibited contribution has been made by any of these above-listed individuals or entities during the established black out period for this solicitation.

RFCSP ISSUE DATE:
APRIL 27, 2016

PROPOSAL DEADLINE:
MAY 26, 2016 AT 10:00 A.M. LOCAL TIME

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ATTACHMENTS

Form 1 – Proposal Cover / Signature Sheet	RFCSP Attachment 1
Form 2 – Proposal Checklist and Table of Content	RFCSP Attachment 2
Form 3 – Discretionary Contracts Disclosure Form and Instructions	RFCSP Attachment 3
Form 4 – Litigation Disclosure Form	RFCSP Attachment 4
Form 5 – SBEDA: Subcontractor/Supplier Utilization Plan	RFCSP Attachment 5
Form 6 – Price Proposal Form and Unit Pricing Form	RFCSP Attachment 6
General Conditions for City of San Antonio Construction Contracts	Exhibit A
General Wage Decision Number TX160280 04/01/2016 TX280	Exhibit B
Payment and Performance Bond Templates	Exhibit C

CITY OF SAN ANTONIO FIRE STATION NO. 2 REPLACEMENT (PROJECT NO. 20-00011)

I. BACKGROUND

The City of San Antonio (hereafter referred to as "City"), Transportation and Capital Improvements Department (hereafter referred to as "TCI") is seeking qualifications and Requests for Competitive Sealed Proposals (hereafter referred to as a "RFCSP") from qualified firms to provide construction services for the Fire Station No. 2 Replacement project (hereafter referred to as "the Project").

II. SCOPE OF WORK AND GENERAL REQUIREMENTS

The Project consists of the construction of an approximately 14,400 square foot Fire Station, with parking for 5 visitor parking spaces, 25 staff parking spaces and associated site work. A detention pond is included. An Additive Alternate #2 would increase the size of the fire station to 15,400 square foot if the City elects to utilize this option. The building will be a single story steel frame and tilt-up concrete structure with a suspended slab, drilled pier and slab-on-fill foundation. The exterior finish materials will consist of an exterior insulated finish system (EIFS), tilt-up concrete panels, metal panel soffits, pre-finished metal roof, aluminum windows and storefront system. Interior construction shall be metal stud framing, gypsum wallboard and concrete masonry unit construction. The Fire and EMS Apparatus Bays will have exposed concrete floors and exposed ceilings. Interior finishes include vinyl composition and ceramic tile flooring, painted and tile wall finishes and exposed painted and acoustical ceilings. Special systems shall include, but are not limited to, HVAC systems, plumbing, electrical, mechanical services, interior and exterior lighting, fire protection and alarm systems, data and communications and an alerting system. Site improvements shall include utilities, storm drainage, concrete sidewalks and driveways, parking areas, drainage improvements and landscaping and site accessibility for individuals with disabilities.

Plans and Specifications of the Construction Documents: A compact disc with the Plans, Specifications and Special Conditions in electronic format may be obtained by General Contractor proposers only, free of charge, from the office of Ford, Powell & Carson, Inc. weekdays between 9:00 am and 5:00 pm. Ford, Powell & Carson's offices are located at 1138 East Commerce Street, San Antonio, Texas 78205, telephone (210) 226-1246. Subcontractors or suppliers may obtain a compact disc with the contract documents by payment of a non-refundable check for Twenty-Five Dollars (\$25.00). Respondent shall notify the Project Consultant, Ford, Powell & Carson, Inc., and City in writing at minimum eleven (11) calendar days prior to the scheduled RFCSP proposal deadline if discrepancies, ambiguities and/or omissions are found in the Project Plans and/or Specifications or if further information or interpretation is desired. Answers by Consultant and/or City shall only be given in writing to all prospective Respondents in Addendum form to this solicitation. All provisions and requirements of such issued addenda shall supersede or modify affected portions of the Project Plans and/or Specifications. All addenda shall be made a part of the Project's Contract Documents. No other explanation or interpretation, with regard to provisions and/or requirements shall be considered official or binding upon City. Addenda shall be posted on the web at www.sanantonio.gov/rfplisting/, along with the Project solicitation documents. Respondent understands and agrees that Respondent is responsible for obtaining all issued Addenda and adhering to all requirements in any issued Addenda. City shall not be responsible for incorrect information obtained through other sources.

Calendar Days: Respondent understands and agrees that the scope of work on the Project is to be completed in full on or before 335 calendar days. This Project requires the posting of one (1) project sign.

Liquidated Damages for Delay in Substantial Completion and Final Completion: In the event the selected Respondent fails to achieve Substantial Completion and/or Final Completion of the Project by the dates established for Substantial Completion and/or Final Completion, Respondent hereby accepts and agrees it shall pay City the sum indicated on the table below for each and every calendar day of unexcused delay in achieving Substantial Completion and/or Final Completion beyond the Scheduled Completion/Final Completion dates. Any sums due and payable hereunder to City shall be payable, not as a penalty, but as Liquidated Damages representing an estimate of delay damages sustained by City, estimated at the time of executing the Contract. Such Liquidated Damages shall apply regardless of whether Respondent has been terminated by City prior to Substantial Completion, so long as Respondent's actions or inactions contributed to the delay. Such Liquidated Damages shall be in addition to and not in preclusion of any recovery of actual damages resulting from other defects in Respondent's performance hereunder, for matters other than delays in Substantial Completion/Final Completion. When City reasonably

believes that Substantial Completion/Final Completion will be inexcusably delayed, City shall be entitled, but not required, to withhold from any amounts otherwise due to Respondent an amount then believed by City to be adequate to recover liquidated damages applicable to such delays. If and when Respondent overcomes the delay in achieving Substantial Completion and/or Final Completion or any part thereof, for which City has withheld payment, City promptly shall release to Respondent those funds withheld but no longer applicable as Liquidated Damages.

Contractual Milestone	Contractual Milestone Description and Requirements	From	To	Liquidated Damages
1	Substantial Completion	Date of Issued Notice to Proceed	335 calendar days	\$900.00 per day
2	Final Completion	Date of Substantial Completion	30 calendar days	\$650.00 per day

General Conditions for City of San Antonio Construction Contracts: Respondent shall review City's General Conditions for City of San Antonio Construction Contracts, provided and attached hereto, labeled as RFCSP **Exhibit A** and incorporated herein by reference, and provide written comments and/or concerns regarding said General Conditions in Respondent's submitted proposal under "**Tab 8**". If Respondent does not have any comments and/or concerns, Respondent shall indicate this in Respondent's submitted proposal under "**Tab 8**". If no objections are submitted by the Respondent, City shall presume that Respondent accepts the terms, conditions and requirements of City's General Conditions as evidenced by Respondent's execution of its Proposal Cover/Contract Signature Page, attached hereto and labeled as **Form 1** to this solicitation.

Wage & Labor Standard Provisions & Prevailing Wage Rates: The selected Respondent shall comply with City Ordinance Number 2008-11-20-1045, concerning Wage and Hour Labor Standard Provisions for City of San Antonio Construction Projects (amending City Ordinance Number 71312). This is a public works Contract and Chapter 2258 of the Texas Government Code requires that not less than the prevailing wage rate for work of a similar character in this locality shall be paid to all laborers, workmen and mechanics employed in the construction of this Project. This prevailing wage requirement includes overtime regulations. Respondent shall refer to the General Wage Decision Number TX160280 04/01/2016 TX280, attached hereto, incorporated by reference herein and labeled as "**RFCSF Exhibit B**".

Payment and Performance Bonds: Upon City Council approval, the selected Respondent shall furnish City with payment and performance bonds, in accordance with the provisions of Chapter 2253 of the Texas Government Code. The payment and performance bond templates required for this Project have been attached hereto, incorporated by reference herein and labeled as "**RFCSF Exhibit C**".

III. SCHEDULE OF EVENTS

The following tentative schedule has been prepared for this project.

Pre-Submittal Conference:	May 9, 2016
Deadline for Submission of Written Questions:	May 13, 2016
Responses Due:	May 26, 2016
Interviews, if necessary	June 2016 - TBD
Anticipated City Council Consideration	June 2016 - TBD

IV. PRE-SUBMITTAL CONFERENCE

A Pre-Submittal Conference is scheduled to be held on **May 9, 2016 at 10:00 A.M.** at the **Municipal Plaza Building, C Room, located at 114 W. Commerce, San Antonio, Texas 78205.** Respondent is encouraged to

prepare and submit its questions in writing three (3) calendar days in advance of the Pre-Submittal Conference, in order to expedite the proceedings.

City's responses to questions received by this due date may be distributed at the Pre-Submittal Conference, as well as being posted on City's website at <http://epay.sanantonio.gov/RFPListings/>.

This meeting place is accessible to disabled persons. Interpreters for the Deaf shall be requested at least 48 hours prior to the meeting. For assistance, call (210) 207-7245 Voice/TTY.

Any oral responses provided by City staff at the Pre-Submittal Conference shall be preliminary. A written summary of the Pre-Submittal Conference shall contain City's official responses to issues raised during the Pre-Submittal Conference and posted on City's website at <http://epay.sanantonio.gov/RFPListings/>. Any oral response given at the Pre-Submittal Conference that is not confirmed in the posted written summary from the Pre-Submittal Conference or in a subsequent addendum shall not be official or binding on City. Only written responses shall be official. All other forms of communication with any officer, employee or agent of City shall not be binding on City.

V. PROPOSAL DOCUMENT REQUIREMENTS AND EVALUATION CRITERIA

City will conduct a comprehensive, fair and impartial evaluation of all proposals received in response to this RFCSP. City may appoint a selection committee to perform the evaluation(s) of the received proposals. Each proposal received by City shall be analyzed to determine overall responsiveness and qualifications to the RFCSP. The selection committee may select all, some or none of the Respondents. If City elects to conduct interviews, Respondent may be interviewed and re-scored based upon these same criteria or other criteria, to be determined by the selection committee.

Respondent's proposal shall include the following items in the following sequence:

- A. EXECUTIVE SUMMARY – Respondent shall include a one (1) page Executive Summary with its submitted proposal. The summary shall state the number of years Respondent has been in business, number of years Respondent has been in business at its local office, Respondent's local office address and number of employees employed in Respondent's local office.
- B. PROPOSAL COVER / CONTRACT SIGNATURE PAGE (Form #1) – Respondent shall include the completed Proposal Cover/ Contract Signature Page with its proposal, indexed and labeled as "**Tab 1**". The Proposal Cover/ Contract Signature Page shall be signed by a person (or persons) authorized to bind the entity (or entities) submitting the Proposal. Proposals signed by a person other than an officer of the company, a partner of the firm or the managing member of an LLC shall be accompanied by evidence of authority. Joint ventures require signatures from all entities participating in the joint venture. Joint ventures are required to provide legal proof of the joint venture, such as a joint venture agreement, as an attachment to its proposal. By executing the Proposal Cover/ Contract Signature Page, Respondent agrees to be bound by the terms therein. Respondent acknowledges it has received all Addenda, and agrees to be bound by the terms, conditions and requirements of this submitted Proposal, all documents listed in the RFCSP Submittal Checklist and Table of Contents, the enabling City Ordinance and all of the associated documentation that form the entire Contract to which Respondent shall be bound, upon the approval of the San Antonio City Council.
- C. PROPOSAL CHECKLIST AND TABLE OF CONTENTS (Form #2) – Respondent shall complete this form, which is to be used as the Table of Contents for its proposal. The checklist shall be indexed and labeled as "**Tab 2**" in its proposal.
- D. DISCRETIONARY CONTRACTS DISCLOSURE FORM (Form #3) – Respondent shall complete the form online at, <https://www.sanantonio.gov/eforms/atty/ContractsDisclosureForm.pdf>, print a copy of Respondent's completed form and submit the form with its proposal, labeled as "**Tab 3**" only with its ORIGINAL PROPOSAL. If Respondent is proposing as a team or joint venture, each party to the team or joint venture shall complete and submit a separate form with Respondent's original proposal.

- E. LITIGATION DISCLOSURE FORM (Form #4) – Respondent shall complete a Litigation Disclosure form and utilize additional pages for explanation, if necessary, indexed and labeled as “**Tab 4**” in its proposal. If Respondent is proposing as a team or joint venture, each party to that team or joint venture shall completed and submit a separate form with its proposal.
- F. SMALL BUSINESS ECONOMIC DEVELOPMENT ADVOCACY (FORM 5) – Respondent shall submit a completed and signed Subcontractor/Supplier Utilization Plan for this solicitation only with its ORIGINAL PROPOSAL. All Respondents are required to submit a completed Subcontractor/Supplier Utilization Plan with its firms’ commitment to satisfy a **(14%) M/WBE** subcontracting goal and a **(2%) AABE** subcontracting goal. Absent a waiver granted by the SBO, failure of Respondent to submit a completed Subcontractor/Supplier Utilization Commitment Form in its response shall render its response **NON-RESPONSIVE**. This form shall be indexed and labeled as “**Tab 5**” in the submitted proposal.
- G. PRICE PROPOSAL FORM AND UNIT PRICING FORM (Form #6) – Respondent shall submit a completed and signed Price Proposal Form and Unit Pricing Form only with its ORIGINAL PROPOSAL. City shall evaluate Respondent’s Price Proposal Form for the base proposal and all listed alternate(s), if any. These forms shall be indexed and labeled as “**Tab 6**” in Respondent’s submitted original proposal.
- H. PROPOSAL GUARANTEE (Indexed and labeled as “**Tab 7**”) – Respondent’s proposal shall be accompanied by an original Bid/Offer/Proposal Bond form, submitted only with its ORIGINAL PROPOSAL and issued by a corporate surety company licensed to conduct business in the State of Texas, in the amount of not less than five percent (5%) of the greatest total amount of the Offer/Bid/Proposal, payable without recourse to the order of City. These forms of security shall serve as a guarantee, if awarded the Contract, Respondent promptly shall enter into Agreement with City, as required by the Contract Documents, and execute Performance and Payment Bonds on City-provided bond forms.
- I. GENERAL CONDITIONS FOR CITY OF SAN ANTONIO CONSTRUCTION CONTRACTS (Indexed and labeled as “**Tab 8**”) – Respondent shall review General Conditions for City of San Antonio Construction Contracts, provided hereto, incorporated by reference herein and labeled as “**RFCSP Exhibit A**”, and provide written comments and/or concerns regarding said General Conditions. If Respondent does not have any comments and/or concerns, Respondent shall acknowledge its review of City’s General Conditions and indicate no comments or concerns this in this “**Tab 8**”. If no objections are submitted by the Respondent, City shall presume Respondent shall accept the award of the Project as presented, if selected.
- J. PROOF OF INSURABILITY (Indexed and labeled as “**Tab 9**”) – Respondent shall submit a copy of its current insurance certificate or letter from insurance carrier.
- K. LETTERS OF REFERENCE (required) – Respondent shall provide a maximum of five (5) letters of reference. Letters of Reference shall be indexed and labeled as “**Tab 10**”.
- L. Certificate of Interested Parties TEC Form 1295 (required) – Effective January 1, 2016, the City of San Antonio is required to comply with Texas Government Code, Chapter 2252, Subchapter Z, Section 2252.908 (hereafter referred to as “the Code”). The Code states City shall not enter into a contract/agreement with a business entity unless and until the business entity has submitted a Certificate of Interested Parties (hereafter referred to as “Form 1295”) to the City for filing with Texas Ethics Commission (hereafter referred to as “TEC”). The Form 1295 requirement imposed upon City applies to all contracts/agreements:
- having a value greater than \$50,000;
 - requiring San Antonio City Council approval; and/or
 - renewals, extensions or amendments that must be approved by the San Antonio City Council.

TEC has made available on its website the new filing application required to be used by the prospective contracting party to file its Form 1295 with City. The prospective contracting party (Respondent) shall use TEC’s application to enter the required information on Form 1295 and print a copy of the completed form containing a unique certification number for this submittal. An authorized agent of Respondent shall sign the printed copy of the completed form and have the Form 1295 notarized. The notarized completed

Form 1295 containing the unique certification number then shall be submitted with Respondent's submittal, indexed and labeled as "Tab 11", to ensure City and Respondent meet the Code requirements, if Respondent is selected. The Form 1295 is accessible at:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

- M. **STATEMENT OF QUALIFICATIONS** – Respondent shall provide a narrative document that addresses all evaluation criteria in **Section II** herein of this RFCSP solicitation. Sufficient information regarding past projects and key personnel's experience shall be provided by Respondent, to indicate that Respondent's team has met or exceeded the minimum qualifications provided in **Section II** of this RFCSP.

City shall conduct a comprehensive, fair and impartial evaluation of all proposals received, in response to this RFCSP, within forty five (45) days of receipt of the proposals. It currently is anticipated City shall appoint and utilize a selection committee to perform said evaluation.

The following Evaluation Criteria shall be used, in recommending the award of this Contract:

A. Experience and Qualifications of Prime Firm, Key Subcontractors and Key Personnel with similar Construction Projects (25 Points)

Respondent shall respond to the following items, as they relate to Scope of Services:

1. Experience (Indexed and Labeled as "Tab 12") – City shall consider the relevance of past experience of Respondent. Respondent shall provide a narrative, on (1) page, describing the Respondent's qualifications, as they relate to the referenced scope of services in this solicitation.

2. Project Sheets (Indexed and Labeled as "Tab 13") – Respondent's proposal shall include a maximum of three (3) project sheets, limited to one (1) page for each project included, which shall describe similar construction projects Respondent has completed within the last five (5) years. Each project sheet shall include the following:

1. Name and Description of the completed project, including any similarity to the Project defined in this solicitation;
2. Year(s) of work on the cited project;
3. Respondent's role in the cited project;
4. Project Manager;
5. Superintendent;
6. Cited project's original and final construction contract amounts (explain inconsistencies);
7. Cited project's proposed completion date and the actual completion date achieved (explain inconsistencies);
8. Cited project's owner's name and the name of the representative (if different) who served as the day-to-day liaison for the cited project, in the following format:
 - a. Name of Owner: _____
 - b. Name of Owner's representative: _____
 - c. Representative's Phone Number: _____
 - d. Representative's E-mail: _____

3. Proposed Key Personnel/Organizational Chart (Indexed and Labeled as "Tab 14") –Provide a detailed organizational chart of Respondent's proposed team, identifying key personnel who will be committed to work on the various tasks for this Contract.

Label assignments as:

- Project Manager
- Superintendent
- Safety Manager
- Chief Estimator

4. Resumes (Indexed and Labeled as "Tab 15") – Respondent shall submit one (1) page resumes for all its key team members. Resumes should link to project sheets and also may include additional previously-completed relevant projects not highlighted in the project sheets.

Resumes also shall include:

- the license type (if applicable) and number of years licensed,
- Number of years employed with the firm
- Number of years' experience in proposed role corresponding to the assignments included in the organizational chart
- City of residence

**B. Understanding of the Project and Proposed Management Plan (15 Points)
(Indexed and labeled as "Tab 16")**

Respondent shall describe its understanding of the Project and specific issues and challenges Respondent likely sees shall be involved, as well as the availability of labor resources (Respondent's capacity to perform) in executing the scope of work required. Respondent shall submit information in a brief narrative plan clearly and concisely describing the challenges it foresees and its approach to managing the Project.

1. Project Understanding

Respondent shall limit its response to the following items to one (1) page:

- Describe Respondent's understanding of the primary objectives of the Project; and
- Describe the constraints and technical challenges related to design and construction Respondent foresees and Respondent's approach to addressing each.

2. Construction Management

Respondent shall limit its response to the following items to a total of two (2) pages:

- Describe Respondent's project management approach and team organization, for the provision of the services outlined in this solicitation;
- Describe Respondent's Quality Control/Quality Assurance process, approach and capabilities to maintain quality control of the construction documents and construction;
- Describe Respondent's approach to managing the quality of Subcontractors;
- Describe Respondent's ability to coordinate work with all Project stakeholders;
- Describe Respondent's approach to assuring timely completion of construction, including methods for schedule recovery, if necessary.

C. Respondent's Team's Experience with San Antonio Region Issues and Past Experience with City of San Antonio Contracts (10 Points)

1. City is interested in evaluating Respondent, Respondent's Team and Respondent's key Sub-Consultant's/Subcontractor's experience with San Antonio issues, as may be evidenced by work in San Antonio and the surrounding area, during the past five (5) years. In narrative form, using a maximum of two total (2) pages, briefly describe Respondent's and Respondent's Team's experience in the following areas, referencing projects relating to that experience. (Note: Respondent may reference projects it included in project sheets under **Criteria A** above or include other projects, but no additional project sheets shall be provided for this criteria.) Respondent's experiences information shall be indexed and labeled as "**Tab 17**":

- Local area construction costs and practices;
- Local environmental community, conditions and constraints;
- Involvement in project development, as it relates to public awareness in the local area;
- Respondent's experience with public utilities within the San Antonio and/or surrounding area;
- Local site development; and
- Building code requirements.

2. Kindly be aware a portion of the scoring for this **Criterion C** may be based on City's

Consultants'/Contractors' Scorecard, as well as other documentation and experience with City projects, generated by City staff and City Consultants on previous City projects. City shall consider Respondent's history of compliance with project programs, schedules and budgets on previous City projects. **No items shall be submitted by Respondent for portion of the scoring. Further, Respondent shall not be penalized if it has not done work on City of San Antonio projects.** Specific items that may be used for consideration under this portion may include, but are not limited to:

- Timely completion of City projects;
- Respondent's cooperative working relationship with City;
- Respondent's prompt payment of Sub-Consultants/Subcontractors at all levels;
- Respondent's compliance with other City contract terms;
- Respondent's compliance with City Ordinances on substitution/addition/deletion of Subcontractors;
- Respondent's provision of contracting opportunities for S/M/WBEs;
- Respondent's compliance with City standards;
- Respondent's conformance to City budget requirements.

D. Price Proposal (35 Points) – Respondent shall complete the Price Proposal Form (attached hereto and labeled as Form 6)

City shall evaluate Respondent's **Price Proposal Form** for the base proposal and all listed alternate(s), if any. The submitted Price Proposal reflecting the lowest price total, including the base proposal, allowances (if any) and all City-accepted alternates (if any), shall receive the maximum thirty-five (35) points. Kindly refer to formula and example listed below:

Formula: Lowest price proposal/Firm's price proposal X 35points = Score

Example:

RESPONDENT:	PROPOSAL AMOUNT (INCLUDING ALLOWANCES AND CITY-ACCEPTED ALTERNATES):	CALCULATION:	POINTS AWARDED:
A	\$650,000.00	595,000/650,000 x 35	32.03
B	\$625,000.00	595,000/625,000 x 35	33.32
C	\$600,000.00	595,000/600,000 x 35	34.71
D	\$595,000.00	595,000/595,000 x 35	35.0

E. SBEDA - SBE Prime Contract Program (15 Points)

Certified SBE firms headquartered or having a Significant Business Presence within the San Antonio Metropolitan Statistical Area responding to this solicitation as Prime Contractors proposing at least 51% SBE participation (Prime and/or Subcontractor) will receive fifteen (15) evaluation criteria percentage points

No evaluation criteria percentage Points will be awarded to non-SBE Prime Contractors through subcontracting to certified SBE firms.

Each proposal shall be analyzed, to determine overall responsiveness, and consideration shall be given to a combination of price and other factors, such that City may determine which Respondents' proposal will provide the best value to City. If City elects to conduct interviews of one or more Respondents, in

connection with this solicitation, Respondent(s) shall be notified in writing and an interview date shall be scheduled.

Evaluation Criteria Summary	Maximum Points
A. Experience and Qualifications of Prime Firm, Key Subcontractors and Key Personnel with similar Construction Projects	25 Points
B. Respondent’s Team’s understanding of the Project and Proposed Management Plan	15 Points
C. Respondent’s Team’s Experience with San Antonio Region Issues and Past Experience with City of San Antonio Contracts	10 Points
D. Respondent’s Submitted Price Proposal	35 Points
E. SBEDA - SBE Prime Contract Program	15 Points
Total Maximum	100 Points

VI. SUBMISSION INSTRUCTIONS

When submitting a proposal in person, visitors to City Hall shall allow time for security measures. Visitors to City Hall shall be required to enter through the east side of the building. The public shall pass through a metal detector and x-ray machine located in City Hall lobby. All packages, purses and carried items shall be scanned during City’s regular business hours of 7:45 a.m. to 4:30 p.m. After members of the public proceed through the metal detector, they will sign in and receive a visitor’s badge. For those that might require the use of a ramp, entry is available on the south side of City Hall (Dolorosa side). Security shall meet the ramp user in the basement with a hand scanner.

Respondent shall submit a total of **six (6)** proposals, which shall include one **(1)** original unbound Qualification signed in ink (which shall include the cited documents that only are to be included in Respondent’s original submission), and **five (5)** reprinted copies of its proposal in a sealed package, clearly marked on the front of the package **“RFCSP: FIRE STATION 2 REPLACEMENT (PROJECT NO. 20-00011)”**. All proposals shall be received in the Office of the City Clerk **NO LATER THAN 10:00 AM ON THURSDAY, MAY 26, 2016** at the address indicated below. Any proposal received after this time shall not be considered.

Physical Address:

Office of the City Clerk, Attn: Transportation and Capital Improvements/Contract Services
 100 Military Plaza
 City Hall, 1st Floor,
 San Antonio, Texas 78205

Proposals sent by facsimile or email shall not be accepted.

Respondent’s response to this solicitation shall be complete and well organized. Adherence to the maximum page criterion is critical; each page side (maximum 8 1/2” x 11”) with criteria information shall be counted. Respondent shall adhere to the page limitations for each section, as stated herein. Pages which have project photos, charts, and graphs shall be counted towards the maximum number of pages. Front and back covers, Table of Contents pages and tabbed divider pages shall not be counted if these pages do not contain proposal information. The use of recycled paper is encouraged. Three-ring binders are **NOT** permitted. With regards to other types of binding, plastic (not metal) spiral or “comb” binding is highly recommended. Unnecessarily elaborate brochures, artwork, bindings, visual aids, expensive paper or other materials, beyond that which is sufficient to present a complete and effective submission, are not required. All pages shall be numbered. Margins shall be no less than 1” around the perimeter of each submitted page. Electronic files, websites or URLs shall not be included as part of the proposal, other than the CD specified above. Each proposal shall include the sections and attachments in the sequence listed in the **RFCSP Section V**, Proposal Document Requirements & Evaluation Criteria, and each section shall be

divided by tabs and indexed as indicated in this RFCSP. Failure to meet the above conditions may result in disqualification of the proposal.

A Respondent who submits a response to this RFCSP correctly shall reveal, disclose and state the true and correct names of the individual, proprietorship, corporation and/or partnership of Respondent, clearly identifying the responsible general partner and all other partners who would be associated with the contract, if any. No nick-names, abbreviations (unless part of the legal title), shortened or short-hand or local "handles" shall be accepted in lieu of the full, true and correct legal name of an entity. These provided names shall comport exactly with the corporate and franchise records of the Texas Secretary of State and Texas Comptroller of Public Accounts. Individuals and proprietorships, if operating under other than an individual name, shall match with exact Assumed Name filings. A Corporate Respondent and a Respondent Limited Liability Company shall include the 11-digit Comptroller's Taxpayer Number on the signature page of Respondent's submitted Proposal.

VII. AMENDMENTS TO RFCSP

Changes, amendments or written responses to questions received in compliance with **Section VIII**, Restrictions on Communication herein, may be posted on City's website at <http://epay.sanantonio.gov/RFPListings/>. It is Respondent's responsibility to review this site and ascertain whether any amendments have been made prior to submission of its proposal. If Respondent does not have access to the Internet, Respondent shall notify City, in accordance with **Section VIII**, Restrictions on Communication, it wishes to receive copies of changes, amendments or written responses to questions by mail or facsimile.

No oral statement of any person shall modify or otherwise change or affect the terms, conditions or specifications stated in this RFCSP and all changes to this RFCSP – if any – shall be made by City only in writing.

VIII. RESTRICTION ON COMMUNICATIONS

Respondent is prohibited from communicating with elected City officials and their staffs regarding this RFCSP or Respondent's proposal from the time this RFCSP has been released until the contract is posted as a City Council agenda item. A person or entity who seeks or applies for a City contract, or any other person acting on behalf of such person or entity, is prohibited from contacting City Officials and/or employees, regarding such a contract after a request for proposal (RFP), request for qualification (RFQ), request for competitive sealed proposals (RFCSP) or other discretionary solicitation has been released. This no-contact provision shall conclude when the contract is posted as a City Council agenda item. If a contact is required with City Officials and/or employees, such contact shall be done in accordance with procedures incorporated into the solicitation document. Violation of this provision by Respondents or their agents may lead to disqualification of their offer from consideration. As used herein, City Official is defined as the Mayor; members of City Council; Municipal Court Judges and Magistrates; City Manager; Deputy City Manager; City Clerk; Deputy City Clerk; Assistant City Clerk; Assistant City Managers; Assistants to City Manager; all City department heads and assistant department heads; Internal Auditor and Assistant Internal Auditors; Compliance Auditor; Assistant to City Council; Assistants to City Council, including contract personnel; Assistant to Mayor; Assistants to the Mayor, including contract personnel; Executive Secretaries; Public Utilities Supervisor; members of bid committees; members of the Historic and Design Review Commission; Zoning Commission; and members of any board or commission that is more than advisory in nature.

These restrictions on communications extend to "thank you" letters, phone calls, emails and all other contact that results in the direct or indirect discussion of this RFCSP and/or proposal submitted by Respondent. Violation of this provision by Respondent and/or its agent may lead to disqualification of Respondent's proposal from consideration.

Exceptions to the restrictions on communication with City employees include:

1. Respondent may ask verbal questions concerning this RFCSP at the Project's Pre-Submittal Conference.
2. Respondent may submit written questions concerning this RFCSP to the Staff Contact Person listed in the address below until **4:00 PM on May 13, 2016**. Questions received after the stated deadline shall not be answered.

Questions may be sent via email or certified mail, return receipt requested, also shall be accepted and should be addressed to:

Diana Vasquez, Contract Officer
City of San Antonio, Transportation & Capital Improvements
Contract Services Division
114 W. Commerce St., 9th floor, San Antonio, TX 78205

Diana.vasquez@sanantonio.gov

It is highly encouraged that all questions be sent by electronic mail

3. Respondents and/or their agents are encouraged to contact the Small Business Office of the Economic Development Department for assistance or clarification with issues specifically related to the City's Small Business Economic Development Advocacy (SBEDA) Program policy and/or completion of the SBEDA form. The point of contact is Diana Vasquez. Diana may be reached by telephone at (210) 207-5872 or by e-mail at diana.vasquez@sanantonio.gov.
4. This exception to the restriction on communication does not apply, and there is no contact permitted to the Small Business Office regarding this solicitation, after the solicitation closing date.
5. Respondent shall provide responses to any questions asked of it by City's Staff Contact Person and/or his/her designee about City's SBEDA Program both before and after responses are received and opened. During the interview stage of this selection, if any, verbal questions to Respondent and Respondent's answers and explanations shall be permitted. If interviews are conducted, Respondent shall not bring lobbyists. City reserves the right to exclude any persons from such selection committee meetings/interviews as it deems in City's best interests.

IX. AWARD OF CONTRACT AND RESERVATION OF RIGHTS

City reserves the right to award one, more than one or no contract(s) in response to this RFCSP.

- A. A Contract, if awarded, shall be awarded to a Respondent whose proposal is deemed most advantageous to City, as determined by the selection committee and upon the approval by the San Antonio City Council.
- B. City may accept any proposal in whole or in part. If subsequent contract negotiations are conducted, such negotiations shall not constitute a rejection or alternate RFCSP on the part of City. However, final selection of a Respondent is subject to San Antonio City Council approval.
- C. City reserves the right to accept one or more proposals or reject any or all proposals received in response to this RFCSP and to waive informalities and irregularities in any proposal received. City also reserves the right to terminate this RFCSP, reissue a subsequent solicitation and/or remedy technical errors in the RFCSP process.
- D. By executing the Proposal Cover / Contract Signature Page, Respondent agrees to be bound by the terms therein. Respondent acknowledges it has received all Addenda and agrees to be bound by the terms, conditions and requirements of this submitted proposal, all documents listed in the RFCSP Submittal Checklist and Table of Contents, the enabling City Ordinance and all of the associated documentation that form the entire Contract to which Respondent shall be bound, upon the approval of the San Antonio City Council. All Contract documents are not binding on City until approved by the San Antonio City Attorney's office and the San Antonio City Council. No work shall commence on the subject Project until Respondent provides the necessary evidence of bonds and insurance required in City's General Conditions for City of San Antonio Construction Contracts and until City signs the Notice to Proceed. In the event the parties cannot negotiate within the time specified by City, City reserves the right to terminate negotiations with the selected Respondent and commence negotiations with another Respondent.
- E. This RFCSP does not commit City to enter to an agreement or award any services related to this RFCSP, nor does it obligate City to pay any costs incurred by Respondent in the preparation or submission of a response or in anticipation of a contract.

- F. City administers its design and construction management through an Internet-based management system. All vendors shall be required to use City's system and submit Project schedules as City dictates.
- G. **Conflicts of Interest:** Respondent acknowledges that it is informed that the Charter of City of San Antonio and its Ethics Code prohibit a City officer or employee, as those terms are defined in the Ethics Code, from having a financial interest in any contract entered into with City or any City agency, such as City-owned utilities. An officer or employee has a "prohibited financial interest" in a contract with City or in the sale to City of land, materials, supplies or service, if any of the following individual(s) or entities is a party to the contract or sale: City officer or employee; his/her parent, child or spouse; a business entity in which he/she or his/her parent, child or spouse owns ten percent (10%) or more of the voting stock or shares of the business entity, or ten percent (10%) or more of the fair market value of the business entity; or a business entity in which any individual or entity listed by Respondent is a Subcontractor on a City contract, a partner or a parent or subsidiary business entity.
- H. Respondent is required to warrant and certify that it, its officers, employees and agents are neither officials nor employees of City, as defined in Section 2-42 of City's Ethics Code. (Discretionary Contracts Disclosure) – Instructions and web-link to electronic form are included in Form 3 of RFCSP.

Independent Contractor: Respondent understands, accepts and agrees, if selected, it and all persons designated by it to provide services in connection with a contract, is/are and shall be deemed to be an Independent Contractor(s), responsible for its/their respective acts or omissions, that City shall in no way be responsible for Respondent's actions and that none of the parties to this award shall have authority to bind the other or to hold out to third parties that it has such authority.

- I. Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that persons or their agents who seek to contract for the sale or purchase of property, goods or services with City shall file a completed Conflict of Interest Questionnaire (hereafter referred as "CIQ"), with City Clerk not later than the seventh (7th) business day after the date that the person:
 - (1) begins contract discussions or negotiations with City; or
 - (2) submits to City an application, response to a request for proposal, offers, correspondence or another writing related to a potential agreement with City. The CIQ form is available from the Texas Ethics Commission at:

<http://www.ethics.state.tx.us/forms/CIQ.pdf>.

In addition to the CIQ form, City requires individuals to submit a CIQ Addendum. The CIQ Addendum is available from City:

<http://www.sanantonio.gov/att/ethics/pdf/OCC-CIQ-Addendum.pdf>.

Completed CIQ forms and CIQ addendum forms may delivered by hand to the Office of the City Clerk at City Hall, 1st floor, 100 Military Plaza, San Antonio, TX 78205 or may be mailed to the Office of the City Clerk, P.O. Box 839966, San Antonio, TX 78283-3966. Respondent shall consult its own legal advisor if it has any questions regarding the statute, CIQ form or CIQ Addendum.

- J. All proposals become the property of City upon receipt and shall not be returned. Any information deemed to be confidential by Respondent clearly should be noted on the page(s) where confidential information is contained; however, City cannot guarantee that it shall not be compelled to disclose all or part of any public record under the Texas Public Information Act, since information deemed to be confidential by Respondent may not be considered confidential under Texas law or pursuant to a Court order.
- K. Any cost or expense incurred by the Respondent associated with the preparation of its proposal, the Pre-Submittal Conference or during any phase of the selection process, if any, shall be borne solely by Respondent.
- L. **Solicitation Process Review:** If Respondent desires a review of the solicitation process followed by City, Respondent shall deliver a written request to the Director of TCI within seven (7) calendar days from the date

the Notice of Non-Selection was sent. When the TCI Director receives a timely written request, the TCI Director (or his/her designee) shall review Respondents concerns and City's solicitation process for legitimacy and procedural correctness. After performing a full review, the TCI Director shall notify Respondent in writing of his/her determination.

M. **Debriefings:** In an effort to improve solicitation responses, TCI is making available on its web site a "Solicitation Response Tip List" that includes the top common items historically that "make or break" submissions to City. Providing this information prior to the due date of the proposal may provide Respondent with an opportunity to develop a better response for a solicitation. As a result of this up-front effort, each Respondent is entitled to one (1) debriefing per calendar year – available after the San Antonio City Council has made the award sought by Respondent – if Respondent:

(a) is not the selected Respondent; and

(b) has not been debriefed since January 1, 2016.

Once Respondent has been debriefed, it shall not be eligible for future debriefings within that calendar year. Any Respondent meeting the above criteria that desires an individual proposal debriefing shall deliver a written request to the TCI Contract Services Division within seven (7) calendar days from the date a Notice of Non-Selection was sent.

N. City reserves the right to verify any and all information submitted by Respondents at anytime during the solicitation/evaluation process.

O. Final approval of a selected firm(s) is subject to the action of the San Antonio City Council.

P. City reserves the right to contact any Respondent to negotiate a contract, if such action is deemed desirable by City.

X. SBEDA ORDINANCE COMPLIANCE PROVISIONS

A. Solicitation Response and Contract Requirements and Commitment

Respondent understands and agrees that the following provisions shall be requirements of this solicitation and the resulting contract, if awarded, and by submitting its Response, Respondent commits to comply with these requirements.

Waiver Request - A Respondent may request, for good cause, a full or partial Waiver of a **specified subcontracting goal** included in this solicitation by submitting the *Respondent Subcontracting Waiver Request form* (available at <http://www.sanantonio.gov/SBO/Forms.aspx>) with its solicitation response. The Respondent's Waiver request must fully document subcontractor unavailability despite the Respondent's good faith efforts to comply with the goal. Such documentation shall include all good faith efforts made by Respondent including, but not limited to, which subcontractors were contacted (with phone numbers, e-mail addresses and mailing addresses, as applicable) and the method of contact. **Late Waiver requests will not be considered.**

Exception Request - A Respondent may, for good cause, request an Exception to the application of the SBEDA Program if the Respondent submits the *Exception to SBEDA Program Requirements Request form* (available at <http://www.sanantonio.gov/SBO/Forms.aspx>) with its solicitation response. The Respondent's Exception request must fully document why: (1) the value of the contract is below the \$50,000 threshold for application of the SBEDA Program; or (2) no commercially-useful subcontracting opportunities exist within the contract scope of work; or (3) the type of contract is outside of the scope of the SBEDA Ordinance. **Late Exception Requests will not be considered.**

B. SBEDA Program

The CITY has adopted a Small Business Economic Development Advocacy Ordinance (Ordinance No. 2010-06-17-0531 and as amended, also referred to as “SBEDA” or “the SBEDA Program”), which is posted on the City’s Economic Development (EDD) website page and is also available in hard copy form upon request to the CITY. The SBEDA Ordinance Compliance Provisions contained in this section of the Agreement are governed by the terms of this Ordinance, as well as by the terms of the SBEDA Ordinance Policy & Procedure Manual established by the CITY pursuant to this Ordinance, and any subsequent amendments to this referenced SBEDA Ordinance and SBEDA Policy & Procedure Manual that are effective as of the date of the execution of this Agreement. Unless defined in a contrary manner herein, terms used in this section of the Agreement shall be subject to the same expanded definitions and meanings as given those terms in the SBEDA Ordinance and as further interpreted in the SBEDA Policy & Procedure Manual.

C. Definitions

Affirmative Procurement Initiatives (API) – Refers to various Small Business Enterprise, Minority Business Enterprise, and/or Women Business Enterprise (“S/M/WBE”) Program tools and Solicitation Incentives that are used to encourage greater Prime and subcontract participation by S/M/WBE firms, including bonding assistance, evaluation preferences, subcontracting goals and joint venture incentives. (For full descriptions of these and other S/M/WBE program tools, see Section III. D. of Attachment A to the SBEDA Ordinance.)

Certification or “Certified” – the process by which the Small Business Office (SBO) staff determines a firm to be a bona-fide small, minority-, women-owned, or emerging small business enterprise. Emerging Small Business Enterprises (ESBEs) are automatically eligible for Certification as SBEs. Any firm may apply for multiple Certifications that cover each and every status category (e.g., SBE, ESBE, MBE, or WBE) for which it is able to satisfy eligibility standards. The SBO staff may contract these services to a regional Certification agency or other entity. For purposes of Certification, the City accepts any firm that is certified by local government entities and other organizations identified herein that have adopted Certification standards and procedures similar to those followed by the SBO, provided the prospective firm satisfies the eligibility requirements set forth in this Ordinance in Section III.E.6 of Attachment A.

Centralized Vendor Registration System (CVR) – a mandatory electronic system wherein the City requires all prospective Respondents and Subcontractors that are ready, willing and able to sell goods or services to the City to register. The CVR system assigns a unique identifier to each registrant that is then required for the purpose of submitting solicitation responses and invoices, and for receiving payments from the City. The CVR-assigned identifiers are also used by the Goal Setting Committee for measuring relative availability and tracking utilization of SBE and M/WBE firms by Industry or commodity codes, and for establishing Annual Aspirational Goals and Contract-by-Contract Subcontracting Goals.

Commercially Useful Function – an S/M/WBE firm performs a Commercially Useful Function when it is responsible for execution of a distinct element of the work of the contract and is carrying out its responsibilities by actually performing, staffing, managing and supervising the work involved. To perform a Commercially Useful Function, the S/M/WBE firm must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quantity and quality, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether an S/M/WBE firm is performing a Commercially Useful Function, an evaluation must be performed of the amount of work subcontracted, normal industry practices, whether the amount the S/M/WBE firm is to be paid under the contract is commensurate with the work it is actually performing and the S/M/WBE credit claimed for its performance of the work, and other relevant factors. Specifically, an S/M/WBE firm does not perform a Commercially Useful Function if its role is limited to that of an extra participant in a transaction, contract or project through which funds are passed in order to obtain the appearance of meaningful and useful S/M/WBE participation, when in similar transactions in which S/M/WBE firms do not participate, there is no such role performed. The use of S/M/WBE firms by CONTRACTOR to perform such “pass-through” or “conduit” functions that are not commercially useful shall be viewed by the CITY as fraudulent if CONTRACTOR attempts to obtain credit for such S/M/WBE participation towards the satisfaction of S/M/WBE participation goals or other API participation requirements. As such, under such circumstances where a commercially useful function is not actually performed by the S/M/WBE firm, the CONTRACTOR shall not be given credit for the participation of its S/M/WBE subcontractor or joint venture partner towards attainment of S/M/WBE utilization goals, and the CONTRACTOR and S/M/WBE firm may be subject to sanctions and penalties in accordance with the SBEDA Ordinance.

Evaluation Preference – an API that may be applied by the Goal Setting Committee (“GSC”) to Construction, Architectural & Engineering, Professional Services, Other Services, and Goods and Supplies contracts that are to be awarded on a basis that includes factors other than lowest price, and wherein responses that are submitted to the City by S/M/WBE firms may be awarded additional Points in the evaluation process in the scoring and ranking of their proposals against those submitted by other prime CONTRACTORS or Respondents.

Good Faith Efforts – documentation of the CONTRACTOR’s or Respondent’s intent to comply with S/M/WBE Program Goals and procedures including, but not limited to, the following: (1) documentation within a solicitation response reflecting the Respondent’s commitment to comply with SBE or M/WBE Program Goals as established by the GSC for a particular contract; or (2) documentation of efforts made toward achieving the SBE or M/WBE Program Goals (e.g., timely advertisements in appropriate trade publications and publications of wide general circulation; timely posting of SBE or M/WBE subcontract opportunities on the City of San Antonio website; solicitations of bids/proposals/qualification statements from all qualified SBE or M/WBE firms listed in the Small Business Office’s directory of certified SBE or M/WBE firms; correspondence from qualified SBE or M/WBE firms documenting their unavailability to perform SBE or M/WBE contracts; documentation of efforts to subdivide work into smaller quantities for subcontracting purposes to enhance opportunities for SBE or M/WBE firms; documentation of a Prime Contractor’s posting of a bond covering the work of SBE or M/WBE Subcontractors; documentation of efforts to assist SBE or M/WBE firms with obtaining financing, bonding or insurance required by the Respondent; and documentation of consultations with trade associations and consultants that represent the interests of SBE and/or M/WBEs in order to identify qualified and available SBE or M/WBE Subcontractors.) The appropriate form and content of CONTRACTOR’s Good Faith Efforts documentation shall be in accordance with the SBEDA Ordinance as interpreted in the SBEDA Policy & Procedure Manual.

HUBZone Firm – a business that has been certified by U.S. Small Business Administration for participation in the federal HUBZone Program, as established under the 1997 Small Business Reauthorization Act. To qualify as a HUBZone firm, a small business must meet the following criteria: (1) it must be owned and Controlled by U.S. citizens; (2) at least 35 percent of its employees must reside in a HUBZone; and (3) its Principal Place of Business must be located in a HUBZone within the San Antonio Metropolitan Statistical Area. [See 13 C.F.R. 126.200 (1999).]

Independently Owned and Operated – ownership of an SBE firm must be direct, independent and by Individuals only. Ownership of an M/WBE firm may be by Individuals and/or by other businesses provided the ownership interests in the M/WBE firm can satisfy the M/WBE eligibility requirements for ownership and Control as specified herein in Section III.E.6. The M/WBE firm must also be Independently Owned and Operated in the sense that it cannot be the subsidiary of another firm that does not itself (and in combination with the certified M/WBE firm) satisfy the eligibility requirements for M/WBE Certification.

Individual – an adult person that is of legal majority age.

Industry Categories – procurement groupings for the City of San Antonio inclusive of Construction, Architectural & Engineering (A&E), Professional Services, Other Services, and Goods & Supplies (i.e., manufacturing, wholesale and retail distribution of commodities). This term may sometimes be referred to as “business categories.”

Minority/Women Business Enterprise (M/WBE) – firm that is certified as a Small Business Enterprise and also as either a Minority Business Enterprise or as a Women Business Enterprise, and which is at least fifty-one percent (51%) owned, managed and Controlled by one or more Minority Group Members and/or women, and that is ready, willing and able to sell goods or services that are purchased by the City of San Antonio.

M/WBE Directory – a listing of minority- and women-owned businesses that have been certified for participation in the City’s M/WBE Program APIs.

Minority Business Enterprise (MBE) – any legal entity, except a joint venture, that is organized to engage in for-profit transactions, which is certified a Small Business Enterprise and also as being at least fifty-one percent (51%) owned, managed and controlled by one or more Minority Group Members, and that is ready, willing and able to sell goods or services that are purchased by the CITY. To qualify as an MBE, the enterprise shall meet the Significant Business Presence requirement as defined herein. Unless otherwise stated, the term “MBE” as used in this Ordinance is not inclusive of women-owned business enterprises (WBEs).

Minority Group Members – African-Americans, Hispanic Americans, Asian Americans and Native Americans legally residing in, or that are citizens of, the United States or its territories, as defined below:

African-Americans: Persons having origins in any of the black racial groups of Africa as well as those identified as Jamaican, Trinidadian, or West Indian.

Hispanic-Americans: Persons of Mexican, Puerto Rican, Cuban, Spanish or Central and South American origin.

Asian-Americans: Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands.

Native Americans: Persons having no less than 1/16th percentage origin in any of the Native American Tribes, as recognized by the U.S. Department of the Interior, Bureau of Indian Affairs and as demonstrated by possession of personal tribal role documents.

Originating Department – the CITY department or authorized representative of the CITY which issues solicitations or for which a solicitation is issued.

Payment – dollars actually paid to CONTRACTORS and/or Subcontractors and vendors for CITY contracted goods and/or services.

Points – the quantitative assignment of value for specific evaluation criteria in the vendor selection process used in some Construction, Architectural & Engineering, Professional Services, and Other Services contracts (e.g., up to 10 points out of a total of 100 points assigned for S/M/WBE participation as stated in response to a Request for Proposals).

Prime Contractor – the vendor or contractor to whom a purchase order or contract is issued by the City of San Antonio for purposes of providing goods or services for the City. For purposes of this agreement, this term refers to the CONTRACTOR.

Relevant Marketplace – the geographic market area affecting the S/M/WBE Program as determined for purposes of collecting data for the MGT Studies, and for determining eligibility for participation under various programs established by the SBEDA Ordinance, is defined as the San Antonio Metropolitan Statistical Area (SAMSA), currently including the counties of Atascosa, Bandera, Bexar, Comal, Guadalupe, Kendall, Medina and Wilson.

Respondent – a vendor submitting a bid, statement of qualifications, or proposal in response to a solicitation issued by the City. For purposes of this agreement, CONTRACTOR is the Respondent.

Responsible – a firm which is capable in all respects to fully perform the contract requirements and has the integrity and reliability which will assure good faith performance of contract specifications.

Responsive – a firm's submittal (bid, response or proposal) conforms in all material respects to the solicitation (Invitation for Bid, Request for Qualifications, or Request for Proposal) and shall include compliance with S/M/WBE Program requirements.

San Antonio Metropolitan Statistical Area (SAMSA) – also known as the Relevant Marketplace, the geographic market area from which the CITY's MGT Studies analyzed contract utilization and availability data for disparity (currently including the counties of Atascosa, Bandera, Bexar, Comal, Guadalupe, Kendall, Medina and Wilson).

SBE Directory - a listing of small businesses that have been certified for participation in the City's SBE Program APIs.

Significant Business Presence – to qualify for this Program, a S/M/WBE must be headquartered or have a *significant business presence* for at least one year within the Relevant Marketplace, defined as: an established place of business in one or more of the eight counties that make up the San Antonio Metropolitan Statistical Area (SAMSA), from which 20% of its full-time, part-time and contract employees are regularly based, and from which a

substantial role in the S/M/WBE's performance of a Commercially Useful Function is conducted. A location utilized solely as a post office box, mail drop or telephone message center or any combination thereof, with no other substantial work function, shall not be construed to constitute a significant business presence.

Small Business Enterprise (SBE) – a corporation, partnership, sole proprietorship or other legal entity for the purpose of making a profit, which is Independently Owned and Operated by Individuals legally residing in, or that are citizens of, the United States or its territories, and which meets the U.S. Small Business Administration (SBA) size standard for a small business in its particular industry(ies) and meets the Significant Business Presence requirements as defined herein.

Small Business Office (SBO) – the office within the Economic Development Department (EDD) of the CITY that is primarily responsible for general oversight and administration of the S/M/WBE Program.

Small Business Office Manager – the Assistant Director of the EDD of the CITY that is responsible for the management of the SBO and ultimately responsible for oversight, tracking, monitoring, administration, implementation and reporting of the S/M/WBE Program. The SBO Manager is also responsible for enforcement of contractor and vendor compliance with contract participation requirements, and ensuring that overall Program goals and objectives are met.

Small Minority Women Business Enterprise Program (S/M/WBE Program) – the combination of SBE Program and M/WBE Program features contained in the SBEDA Ordinance.

Subcontractor – any vendor or contractor that is providing goods or services to a Prime Contractor or CONTRACTOR in furtherance of the Prime Contractor's performance under a contract or purchase order with the City. A copy of each binding agreement between the CONTRACTOR and its subcontractors shall be submitted to the CITY prior to execution of this contract agreement and any contract modification agreement.

Suspension – the temporary stoppage of the SBE or M/WBE firm's beneficial participation in the CITY's S/M/WBE Program for a finite period of time due to cumulative contract payments the S/M/WBE firm received during a fiscal year that exceed a certain dollar threshold as set forth in Section III.E.7 of Attachment A to the SBEDA Ordinance, or the temporary stoppage of CONTRACTOR's and/or S/M/WBE firm's performance and payment under CITY contracts due to the CITY's imposition of Penalties and Sanctions set forth in Section III.E.13 of Attachment A to the SBEDA Ordinance.

Subcontractor/Supplier Utilization Plan – a binding part of this contract agreement which states the CONTRACTOR's commitment for the use of Joint Venture Partners and / or Subcontractors/Suppliers in the performance of this contract agreement, and states the name, scope of work, and dollar value of work to be performed by each of CONTRACTOR's Joint Venture partners and Subcontractors/Suppliers in the course of the performance of this contract, specifying the S/M/WBE Certification category for each Joint Venture partner and Subcontractor/Supplier, as approved by the SBO Manager. Additions, deletions or modifications of the Joint Venture partner or Subcontractor/Supplier names, scopes of work, of dollar values of work to be performed requires an amendment to this agreement to be approved by the EDD Director or designee.

Women Business Enterprises (WBEs) - any legal entity, except a joint venture, that is organized to engage in for-profit transactions, that is certified for purposes of the SBEDA Ordinance as being a Small Business Enterprise and that is at least fifty-one percent (51%) owned, managed and Controlled by one or more non-minority women Individuals that are lawfully residing in, or are citizens of, the United States or its territories, that is ready, willing and able to sell goods or services that are purchased by the City and that meets the Significant Business Presence requirements as defined herein. Unless otherwise stated, the term "WBE" as used in this Agreement is not inclusive of MBEs.

D. SBEDA Program Compliance – General Provisions

As CONTRACTOR acknowledges that the terms of the CITY's SBEDA Ordinance, as amended, together with all requirements, guidelines, and procedures set forth in the CITY's SBEDA Policy & Procedure Manual are in furtherance of the CITY's efforts at economic inclusion and, moreover, that such terms are part of CONTRACTOR's scope of work as referenced in the CITY's formal solicitation that formed the basis for contract award and subsequent execution of this Agreement, these SBEDA Ordinance requirements, guidelines and procedures are

hereby incorporated by reference into this Agreement, and are considered by the Parties to this Agreement to be material terms. CONTRACTOR voluntarily agrees to fully comply with these SBEDA program terms as a condition for being awarded this contract by the CITY. Without limitation, CONTRACTOR further agrees to the following terms as part of its contract compliance responsibilities under the SBEDA Program:

1. CONTRACTOR shall cooperate fully with the Small Business Office and other CITY departments in their data collection and monitoring efforts regarding CONTRACTOR's utilization and payment of Subcontractors, S/M/WBE firms, and HUBZone firms, as applicable, for their performance of Commercially Useful Functions on this contract including, but not limited to, the timely submission of completed forms and/or documentation promulgated by SBO, through the Originating Department, pursuant to the SBEDA Policy & Procedure Manual, timely entry of data into monitoring systems, and ensuring the timely compliance of its Subcontractors with this term;
2. CONTRACTOR shall cooperate fully with any CITY or SBO investigation (and shall also respond truthfully and promptly to any CITY or SBO inquiry) regarding possible non-compliance with SBEDA requirements on the part of CONTRACTOR or its Subcontractors or suppliers;
3. CONTRACTOR shall permit the SBO, upon reasonable notice, to undertake inspections as necessary including, but not limited to, contract-related correspondence, records, documents, payroll records, daily logs, invoices, bills, cancelled checks, and work product, and to interview Subcontractors and workers to determine whether there has been a violation of the terms of this Agreement;
4. CONTRACTOR shall immediately notify the SBO, in writing on the Change to Utilization Plan form, through the Originating Department, of any proposed changes to CONTRACTOR's Subcontractor / Supplier Utilization Plan for this contract, with an explanation of the necessity for such proposed changes, including documentation of Good Faith Efforts made by CONTRACTOR to replace the Subcontractor / Supplier in accordance with the applicable Affirmative Procurement Initiative. All proposed changes to the Subcontractor / Supplier Utilization Plan including, but not limited to, proposed self-performance of work by CONTRACTOR of work previously designated for performance by Subcontractor or supplier, substitutions of new Subcontractors, terminations of previously designated Subcontractors, or reductions in the scope of work and value of work awarded to Subcontractors or suppliers, shall be subject to advanced written approval by the Originating Department and the SBO.
5. CONTRACTOR shall immediately notify the Originating Department and SBO of any transfer or assignment of its contract with the CITY, as well as any transfer or change in its ownership or business structure.
6. CONTRACTOR shall retain all records of its Subcontractor payments for this contract for a minimum of four years or as required by state law, following the conclusion of this contract or, in the event of litigation concerning this contract, for a minimum of four years or as required by state law following the final determination of litigation, whichever is later.
7. In instances wherein the SBO determines that a Commercially Useful Function is not actually being performed by the applicable S/M/WBE or HUBZone firms listed in a CONTRACTOR's Subcontractor / Supplier Utilization Plan, the CONTRACTOR shall not be given credit for the participation of its S/M/WBE or HUBZone subcontractor(s) or joint venture partner(s) toward attainment of S/M/WBE or HUBZone firm utilization goals, and the CONTRACTOR and its listed S/M/WBE firms or HUBZone firms may be subject to sanctions and penalties in accordance with the SBEDA Ordinance.
8. CONTRACTOR acknowledges that the CITY will not execute a contract or issue a Notice to Proceed for this project until the CONTRACTOR and each of its Subcontractors for this project have registered and/or maintained active status in the CITY's Centralized Vendor Registration System, and CONTRACTOR has represented to CITY which primary commodity codes each registered Subcontractor will be performing under for this contract.

E. SBEDA Program Compliance – Affirmative Procurement Initiatives

The CITY has applied the following contract-specific Affirmative Procurement Initiatives to this contract. CONTRACTOR hereby acknowledges and agrees that the selected API requirement shall also be extended to any change order or subsequent contract modification and, absent SBO's granting of a waiver, that its full compliance with the following API terms and conditions are material to its satisfactory performance under this Agreement:

SBE Prime Contract Program. In accordance with the SBEDA Ordinance, Section III. D. 1. (a), this contract is being awarded pursuant to the SBE Prime Contract Program, and as such, CONTRACTOR affirms that if it is presently certified as an SBE, CONTRACTOR agrees not to subcontract more than 49% of the contract value to a non-SBE firm.

M/WBE Subcontracting Program. In accordance with SBEDA Ordinance Section III. D. 2. (b), this contract is being awarded pursuant to the M/WBE Subcontracting Program. CONTRACTOR agrees to subcontract at least **fourteen percent (14%)** of its prime contract value to certified M/WBE firms headquartered or having a significant business presence within the San Antonio Metropolitan Statistical Area (SAMSA).

Segmented M/WBE Goal. In accordance with SBEDA Ordinance Section III. D. 2. (d), this contract is being awarded pursuant to Segmented M/WBE Goals. CONTRACTOR agrees to subcontract at least **two percent (2%)** of the contract value to a certified African American Business Enterprise (AABE) firm headquartered or having a significant business presence within the San Antonio Metropolitan Statistical Area (SAMSA). This **two percent (2%)** subcontracting goal will also count toward the aforementioned fourteen percent (14%) M/WBE subcontracting goal.

The Subcontractor / Supplier Utilization Plan that CONTRACTOR submitted to CITY with its response for this contract (or, as appropriate, that it agrees to submit during the price proposal negotiation phase of this contract), and that contains the names of the certified M/WBE and AABE Subcontractors to be used by CONTRACTOR on this contract, the respective percentages of the total prime contract dollar value to be awarded and performed by each M/WBE and AABE Subcontractor, and documentation including a description of each M/WBE and AABE Subcontractor's scope of work and confirmation of each M/WBE and AABE Subcontractor's commitment to perform such scope of work for an agreed upon dollar amount is hereby attached and incorporated by reference into the material terms of this Agreement. In the absence of a waiver granted by the SBO, the failure of CONTRACTOR to attain this subcontracting goal for M/WBE and AABE firm participation in the performance of a Commercially Useful Function under the terms of its contract shall be a material breach and grounds for termination of the contract with the CITY, and may result in debarment from performing future CITY contracts, withholding of payment for retainage equal to the dollar amount of the underutilization below the agreed upon M/WBE and AABE subcontracting goal, and/or shall be subject to any other remedies available under the terms of this Agreement for violations of the SBEDA Ordinance, or under any other law.

Subcontractor Diversity: The City of San Antonio strongly encourages each bidder to be as inclusive as possible, and to reach out to all segments of the M/WBE community in its efforts to exercise good faith in achieving the M/WBE subcontracting goal of 14% and AABE Subcontracting goal of 2% that have been established for this contract. While the relative availability of ready, willing, and able firms within various ethnic and gender categories will vary significantly from contract to contract based upon the particular trades that are involved, overall in the San Antonio Construction industry, as reflected in the City's Centralized Vendor Registration system for the month of April 2016, African-American owned firms represent approximately 2.76% of available subcontractors, Hispanic-American firms represent approximately 15.51%, Asian-American firms represent approximately 1.27%, Native American firms represent approximately 0.22%, and Women-owned firms represent approximately 5.44% of available construction subcontractors.

F. Commercial Nondiscrimination Policy Compliance

As a condition of entering into this Agreement, the CONTRACTOR represents and warrants that it has complied with throughout the course of this solicitation and contract award process, and will continue to comply with, the CITY's Commercial Nondiscrimination Policy, as described under Section III. C. 1. of the SBEDA Ordinance. As part of such compliance, CONTRACTOR shall not discriminate on the basis of race, color, religion, ancestry or national origin, sex, age, marital status, sexual orientation or, on the basis of disability or other unlawful forms of discrimination in the solicitation, selection, hiring or commercial treatment of Subcontractors, vendors, suppliers, or

commercial customers, nor shall the company retaliate against any person for reporting instances of such discrimination. The company shall provide equal opportunity for Subcontractors, vendors and suppliers to participate in all of its public sector and private sector subcontracting and supply opportunities, provided that nothing contained in this clause shall prohibit or limit otherwise lawful efforts to remedy the effects of marketplace discrimination that have occurred or are occurring in the CITY's Relevant Marketplace. The company understands and agrees that a material violation of this clause shall be considered a material breach of this Agreement and may result in termination of this Agreement, disqualification of the company from participating in CITY contracts, or other sanctions. This clause is not enforceable by or for the benefit of, and creates no obligation to, any third party. CONTRACTOR's certification of its compliance with this Commercial Nondiscrimination Policy as submitted to the CITY pursuant to the solicitation for this contract is hereby incorporated into the material terms of this Agreement. CONTRACTOR shall incorporate this clause into each of its Subcontractor and supplier agreements entered into pursuant to CITY contracts.

G. Prompt Payment

Upon execution of this contract by CONTRACTOR, CONTRACTOR shall be required to submit to CITY accurate progress payment information with each invoice regarding each of its Subcontractors, including HUBZone Subcontractors, to ensure that the CONTRACTOR's reported subcontract participation is accurate. CONTRACTOR shall pay its Subcontractors in compliance with Chapter 2251, Texas Government Code (the "Prompt Payment Act") within ten days of receipt of payment from CITY. In the event of CONTRACTOR's noncompliance with these prompt payment provisions, no final retainage on the Prime Contract shall be released to CONTRACTOR, and no new CITY contracts shall be issued to the CONTRACTOR until the CITY's audit of previous subcontract payments is complete and payments are verified to be in accordance with the specifications of the contract.

H. Violations, Sanctions and Penalties

In addition to the above terms, CONTRACTOR acknowledges and agrees that it is a violation of the SBEDA Ordinance and a material breach of this Agreement to:

1. Fraudulently obtain, retain, or attempt to obtain, or aid another in fraudulently obtaining, retaining, or attempting to obtain or retain Certification status as an SBE, MBE, WBE, M/WBE, HUBZone firm, Emerging M/WBE, or ESBE for purposes of benefitting from the SBEDA Ordinance;
2. Willfully falsify, conceal or cover up by a trick, scheme or device, a material fact or make any false, fictitious or fraudulent statements or representations, or make use of any false writing or document, knowing the same to contain any false, fictitious or fraudulent statement or entry pursuant to the terms of the SBEDA Ordinance;
3. Willfully obstruct, impede or attempt to obstruct or impede any authorized official or employee who is investigating the qualifications of a business entity which has requested Certification as an S/M/WBE or HUBZone firm;
4. Fraudulently obtain, attempt to obtain or aid another person fraudulently obtaining or attempting to obtain public monies to which the person is not entitled under the terms of the SBEDA Ordinance; and
5. Make false statements to any entity that any other entity is, or is not, certified as an S/M/WBE for purposes of the SBEDA Ordinance.

Any person who violates the provisions of this section shall be subject to the provisions of Section III. E. 13. of the SBEDA Ordinance and any other penalties, sanctions and remedies available under law including, but not limited to:

1. Suspension of contract;
2. Withholding of funds;

3. Rescission of contract based upon a material breach of contract pertaining to S/M/WBE Program compliance;
4. Refusal to accept a response or proposal; and
5. Disqualification of CONTRACTOR or other business firm from eligibility for providing goods or services to the City for a period not to exceed two years (upon City Council approval).

SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Administrative and procedural requirements for allowances.

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 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.
- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION

3.1 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Allow lump sum of \$20,000.00 for furnishing self-contained RTC flasher beacon, including 4 beacons, controls, radio, etc. Installation under general contract.

- B. Allowance No. 2: Allow lump sum of \$2,000.00 per ton for two tons of additional reinforcing steel, sizes as directed by Architect. Allowance is complete and installed, including material, equipment and labor.
- C. Allowance No. 3: Allow lump sum of \$3,000.00 per ton for one ton of additional structural steel, sizes as directed by Architect. Allowance is complete and installed, including material, equipment and labor.
- D. Allowance No. 4: Allow lump sum of \$120,000.00 for USDD System. Refer to Sheet IT401 and IT401A.**

END OF SECTION

SECTION 06 40 23

INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Interior architectural woodwork and accessories necessary to complete installation, including, but not limited to, following:

1. Cabinets, shop applied transparent finish.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's technical literature for each type of product indicated, specified, or required, including but not limited to following:

1. Panel products.
2. Cabinet hardware and accessories.

- B. Shop Drawings: Dimensioned and detailed drawings, including plans, elevations, large-scale details, attachment devices, and other components of each woodwork item.

1. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
2. Show locations and sizes of cutouts and holes installed in woodwork.

- C. Samples for Verification:

1. Veneered Panels with Transparent Finish: 8 by 10 in, for each species and cut. Include at least one face veneer seam and finish as specified.
2. Hardware: One full-size unit for each type and finish.

1.3 QUALITY ASSURANCE

- A. Fabricator Qualifications:

1. Experience: Company with not less than 5 years experience in performing specified Work similar in design, products, and extent to scope of this Project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to produce required Work.
2. Supervision: Installer shall maintain a competent supervisor who is at Project during times specified Work is in progress, and, who is experienced in installing systems similar to type and scope required for Project.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver woodwork only when painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Deliver and install woodwork only when building is enclosed, wet work is complete, and heating, ventilating and air conditioning system is operating and maintaining temperature and relative humidity at occupancy levels during remainder of construction period.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

- A. Available Manufacturers and Products: Subject to compliance with requirements of Contract Documents, manufacturers offering products that may be incorporated into Work include, but are not limited to, those listed alphabetically under items below.
- B. Basis of Design: Contract Documents are based on products specified under items below to establish a standard of quality. Other acceptable or available manufacturers with products having equivalent characteristics may be considered, provided deviations are minor and does not change concept expressed in Contract Documents as judged by Architect.

2.2 WOOD PRODUCTS

- A. General: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Wood Veneer for Transparent Finish:
 - 1. Description: Custom sliced hardwood or softwood veneer of industry standard thickness necessary for fabrication and finishing woodwork without show-through or sand-through.
 - 2. Grades:
 - a. Face Veneer: AA.
 - b. Back Veneer: B.
 - 3. Wood Veneer: Natural teak. **Option - Rift cut White Oak with Teak stain.**
 - 4. Edge Banding: Same wood species as exposed wood veneer.
 - 5. Finish:
 - a. Grade: Premium.
 - b. Type: Shop applied transparent finish – Conversion varnish.
 - c. Stain: Match Architect's sample.
- C. Fiberboard:
 - 1. Material Quality Standard: ANSI A208.2, 47 lb density minimum, Grade 160.
 - 2. Description: Composite panel composed of cellulosic fibers bonded together with a synthetic resin or other suitable bonding system under heat and pressure.
- D. Particleboard:
 - 1. Material Quality Standard: ANSI A208.1, except formaldehyde emissions not to exceed 0.21 ppm according to ASTM E1333, Grade M-3, 47 lb density minimum.
 - 3. Description: Composite panel composed of cellulosic materials (usually wood), generically discrete pieces or particles, bonded together with a synthetic resin or binder, which may also contain additives, under heat and pressure.

- E. Softwood Plywood (Veneer Core) Material Quality Standard: DOC VPS PS 1, Exposure 1.
- F. Hardwood Plywood Material Quality Standard: HPVA HP-1, except formaldehyde emissions not to exceed following according to ASTM E1333:
 - 1. Veneer Core: 0.08 ppm.
 - 2. Composite Core: 0.08 ppm.
- G. Lumber: Softwood and hardwood solid wood graded in accordance with grade of Work specified, of quality suitable for construction and finish indicated.
 - 1. Exposed and Finished: Matching adjacent wood veneer.
 - 2. Concealed and Unfinished (Fabrication Purposes): Fabricators option.
- H. Adhesive for Bonding Wood Veneer to Panels: No-added formaldehyde based thermoplastic resin recommended by fabricator to suit panel press method and comply with specified requirements.

2.3 FASTENERS AND ANCHORS

- A. General: Material, type, size, and finish required for each substrate for secure anchorage.
- B. Screws: ASME B18.6.1.
- C. Nails: FS FF-N-105.
- D. Wood Dowels: Industrial grade hardwood laterally fluted with chamfered ends and minimum diameter of 0.31 in.
- E. Staples: Not permitted.
- F. Joint Connectors:
 - 1. Description: Concealed mechanical draw bolt, with tightening nuts and locking sleeve, for pulling countertop butt-to-butt joints tight and to maintain constant pressure between pieces; sized for application.
 - 2. Available Manufacturers and Products:
 - a. Hafele America Co.; Zipbolt Joint Connectors.
 - b. Knape & Vogt Manufacturing Co.; 516.
- G. Glue: Aliphatic resin glue formulated for use on all types of wood; resistant to water, oil, grease, and paint solvents; sandable after drying; complying with VOC limits specified.
- H. Biscuits: Die cut from beechwood blanks, and compressed for strength and cross-hatched to improve glue bonding.
- I. Hanging Clips: Two piece extruded aluminum zee hanging clips.

2.4 FINISHING MATERIALS

- A. Finish Materials: Products complying with quality standards that will achieve specified finish.
- B. Paste Wood Filler: Water based substance consisting of inert, shrinkage resisting bulking agent, acrylic binder, and water carrier; tint using dry pigments or universal tinting medium compatible with filler.

- C. Acrylic Caulking:
 - 1. Description: Siliconized acrylic caulking custom colored to match adjacent finished surfaces.
 - 2. Available Manufacturers and Products:
 - a. ColorFast Industries Inc.; Laminate Caulk.
 - b. ColorRite; ColorRite.
 - c. Kampel Enterprises, Inc.; ColorFlex Custom Colored Caulking.

2.5 CABINET HARDWARE AND ACCESSORIES

- A. Cabinet Door Hinges:
 - 1. Product Quality Standard: BHMA A156.9, Grade 1.
 - 2. Description: Semiconcealed, five-knuckle hinges with rounded tips.
 - 3. Finish and Material: Stainless steel.
 - 4. Number of Hinges:
 - a. 2 Hinges: Doors less than 48 in high.
 - b. 3 Hinges: Doors more than 48 in high.
- B. Drawer Pulls:
 - 1. Description: Wire design, 5/16 in outside diameter, 1-5/16 in projection, 4 in center to center; back mounted.
 - 2. Finish and Material: Satin stainless steel.
 - 3. Basis of Design: EPCO (Engineered Products Co.); MC402-4-SS.
- C. Magnetic Catch Product Quality Standards: BHMA A156.9, B03141, B03151, B03161, and B03171, Grade 1, as required by conditions.
- D. Shelf Rests:
 - 1. Description: White plastic clip with double mounting pins for holes in sidewall of cabinet, and locking tongue that holds shelf down, color as selected from manufacturers colors.
 - 2. Available Manufacturers and Products:
 - a. Bainbridge Manufacturing; 3220 Shelf Support.
 - b. Outwater Hardware Corp.; SUP-5030-Q-W.
- E. Drawer Slides:
 - 1. Product Quality Standard: BHMA A156.9, B05091, Grade as indicated.
 - 2. Description: Side or rail mounted, travel as indicated, progressive movement, zinc-plated steel slides with all steel ball bearings; and as indicated below.
 - 3. Box Drawer Slides:
 - a. Product Quality Standard: Grade 1, HD-100, 100 lbf load rating.
 - b. Description: Full extension type for width indicated below and height 6 in and less.
 - c. Basis of Design:
 - 1) 24 in Wide and Less: Accuride; 7434.
 - 2) Wider than 24 in: Accuride; 7432.
 - 4. File Drawer Slides:

- a. Product Quality Standard: Grade 1HD-200, 200 lbf load rating.
 - b. Description: Full extension type for width of 42 in and less with 1 in over travel.
 - c. Basis of Design: Accuride; 3640.
- F. Door and Drawer Locks:
1. Products: Provide locks, keys and accessories.
 2. Available Manufacturers:
 - a. Illinois Lock Co.
 - b. Kenstan Lock Co.
 - c. C. R. Laurence Co., Inc.
 - d. Olympus Lock
 - e. Phoenix Lock Co.
- G. Grommets Basis of Design: Doug Mockett & Co., Inc.; GRN1, 2-5/8 in overall diameter, color selected from manufacturers colors.
- H. Closet Accessories Basis of Design:
1. Shelf and Rod Bracket: EPCO (Engineered Products Co.); 858-PC, polished chrome finish.
 2. Tubing: EPCO (Engineered Products Co.); 890, polished chrome finish.
 3. Flanges: EPCO (Engineered Products Co.); 860 closed flange and 850 open flange, zinc finish.
- 2.6 FABRICATION, GENERAL
- A. Fabrication Quality Standards: In addition to standards listed elsewhere, comply with following, unless otherwise specified:
1. AWI's "Architectural Woodwork Quality Standards" (AWQS), sections as indicated below.
 2. Approved submittals.
 3. Contract Documents.
- B. Shop Fabrication: Fabricate, assemble, finish, and install hardware to maximum extent possible before shipment to site.
1. Fabricate woodwork to dimensions, profiles, and details indicated.
 2. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
 3. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.
 4. Shop-cut openings to maximum extent possible to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
 5. At fabricator's option, except for moldings, veneered panels is acceptable in lieu of lumber if species, cut and finish is compatible with adjacent finish.
- C. Wood Moisture Content: Comply with requirements of quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.

- D. Edges: Ease edges to radius indicated for following:
 - 1. Corners of Cabinets and Edges of Lumber Members 3/4 in Thick or Less: 1/16 in.
 - 2. Edges of Rails and Similar Members More Than 3/4 in Thick: 1/8 in.
- E. Balanced Panel Fabrication: Veneered and clad panels shall be symmetrical from panel center line; balance type, thickness, and moisture content of veneers and cladding on both faces of panel.
- F. Furring, Blocking, Shims, and Hanging Strips: Fabricate from fire retardant treated lumber; sand lightly to remove raised grain on exposed surfaces before fabrication.

2.7 CABINETS

- A. Fabrication Quality Standard: AWI AWQS Section 400: Premium grade.
- B. Quality Standard for Cabinet Style: AWI's AWQS Section 400, flush overlay.
- C. Finish for Cabinets with Shop Applied Transparent Finish:
 - 1. Exposed Surfaces: Shop applied transparent finish, selection as scheduled.
 - 2. Semi-Exposed Surfaces: Shop applied transparent finish, selection as scheduled.
 - 3. Concealed Surfaces: HPDL backing sheet.
- D. Body Members (Ends, Divisions, Bottoms and Sub-Tops): Particleboard or fiberboard, 3/4 in minimum thickness.
- E. Face Frames, Rails, Kicks and Bases: Hardwood lumber or hardwood plywood, 3/4 in minimum thickness; do not use hardwood plywood if hinge screws enter edge of rail only.
- F. Shelves: Hardwood plywood supported on shelf rests set in 2 vertical rows of multiple holes:
 - 1. Spans up to 32 in: 3/4 in minimum thickness.
 - 2. Spans up to 42 in: 1 in minimum thickness.
- G. Drawer Boxes:
 - 1. Sides, Backs and Sub-Fronts: Depending on scheduled finish, 7 ply hardwood lumber or hardwood plywood; 1/2 in minimum thickness; joined according to one of following:
 - a. Glued multiple dovetail.
 - b. Glued French dovetail.
 - c. Glued and doweled.
 - 2. Bottoms: Depending on scheduled finish, hardwood plywood; 1/4 in minimum thickness; captured in standing dado shoulder.
- H. Drawer Fronts: Particleboard or fiberboard, 3/4 in minimum thickness.
- I. Doors: Plywood with minimum 3/8 inch thick hardwood edge banding:
 - 1. Width up to 30 in and Height up to 60 in: 3/4 in minimum thickness.
 - 2. Width up to 36 in and Height up to 72 in: 1 in to 1-1/4 in thickness.
 - 3. Doors Larger Than Sizes Above: 1-3/8 in or 1-3/4 in doors; refer to appropriate Division 08 Section.

2.8 SHOP APPLIED FINISHING

- A. General: Except for woodwork indicated to be field finished under appropriate Division 09 Sections, shop finish woodwork. Defer final touchup, cleaning, and polishing until after installation.
- B. Grade: Provide finishes of same fabrication grade.
- C. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing woodwork, as applicable to each unit of work.
- D. Transparent Finish:
 - 1. Wash Coat for Stained Finish: Apply wash-coat sealer to woodwork made from closed-grain wood before staining and finishing.
 - 2. Filled Finish for Open-Grain Woods: After staining (if any), apply paste wood filler to open-grain woods and wipe off excess. Tint filler to match stained wood. Apply wash-coat sealer after staining and before filling.
- E. Finish: Match Architect's sample.
- F. Sheen: Satin.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Acceptance of Surfaces and Conditions:
 - 1. Examine substrates to which interior architectural woodwork will be installed for compliance with requirements and other conditions affecting performance.
 - 2. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents.
 - 3. Starting Work within a particular area will be construed as acceptance of surface conditions.

3.2 PREPARATION

- A. Conditioning: Before installation, condition woodwork to average prevailing temperature and humidity conditions in installation areas.

3.3 INSTALLATION. GENERAL

- A. Installation Quality Standards: In addition to standards listed elsewhere, perform Work according to following, unless otherwise specified:
 - 1. AWI's "Architectural Woodwork Quality Standards" Section 1700.
 - 2. Approved submittals.
 - 3. Contract Documents.
- B. Grade: Install to comply with requirements for same fabrication grade specified for type of involved.
- C. Exposed Lines: Set individual items as follows with no distortions:

1. Horizontal Lines: Level and straight.
2. Vertical Lines: Plumb and true.

D. Fitting:

1. Scribe and cut to fit adjoining work and refinish cut surfaces.
2. Shim as required for conditions with concealed shims.
3. When necessary, apply filler strips for accurate fit with fasteners concealed

E. Attaching to Substrates:

1. Fasten to partition framing or concealed reinforcements.
2. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation.
3. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish.
4. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.

F. Treating Nail Holes and Wood-to-Wood Joints: Fill with matching wood filler, sand smooth, and finish same as adjacent finishes.

3.4 INSTALLING CABINETS

A. Installation Provisions, General:

1. Install accurately aligned and without distortion so doors and drawers fit openings properly.
2. Make flush, tight, and uniform joints
3. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.
4. Install acrylic caulking at open joints.

B. Installing Base Cabinets:

1. Fasten securely through back to partition framing or concealed reinforcements with fasteners spaced not more than 24 in on center; bolt adjacent cabinets together.
2. Where not installed adjacent to partitions, fasten securely to floor at toe space with fasteners spaced not more than 24 in on center. Secure sides of cabinets to floor, where they do not adjoin other cabinets, with not less than 2 fasteners.

C. Installing Wall Cabinets: Fasten securely through back to partition framing or concealed reinforcements with fasteners spaced not more than 16 in on centers.

D. Tolerance for Sag, Bow, or Other Variation from Straight Line: Not more than 1/8 in in 96 in.

END OF SECTION

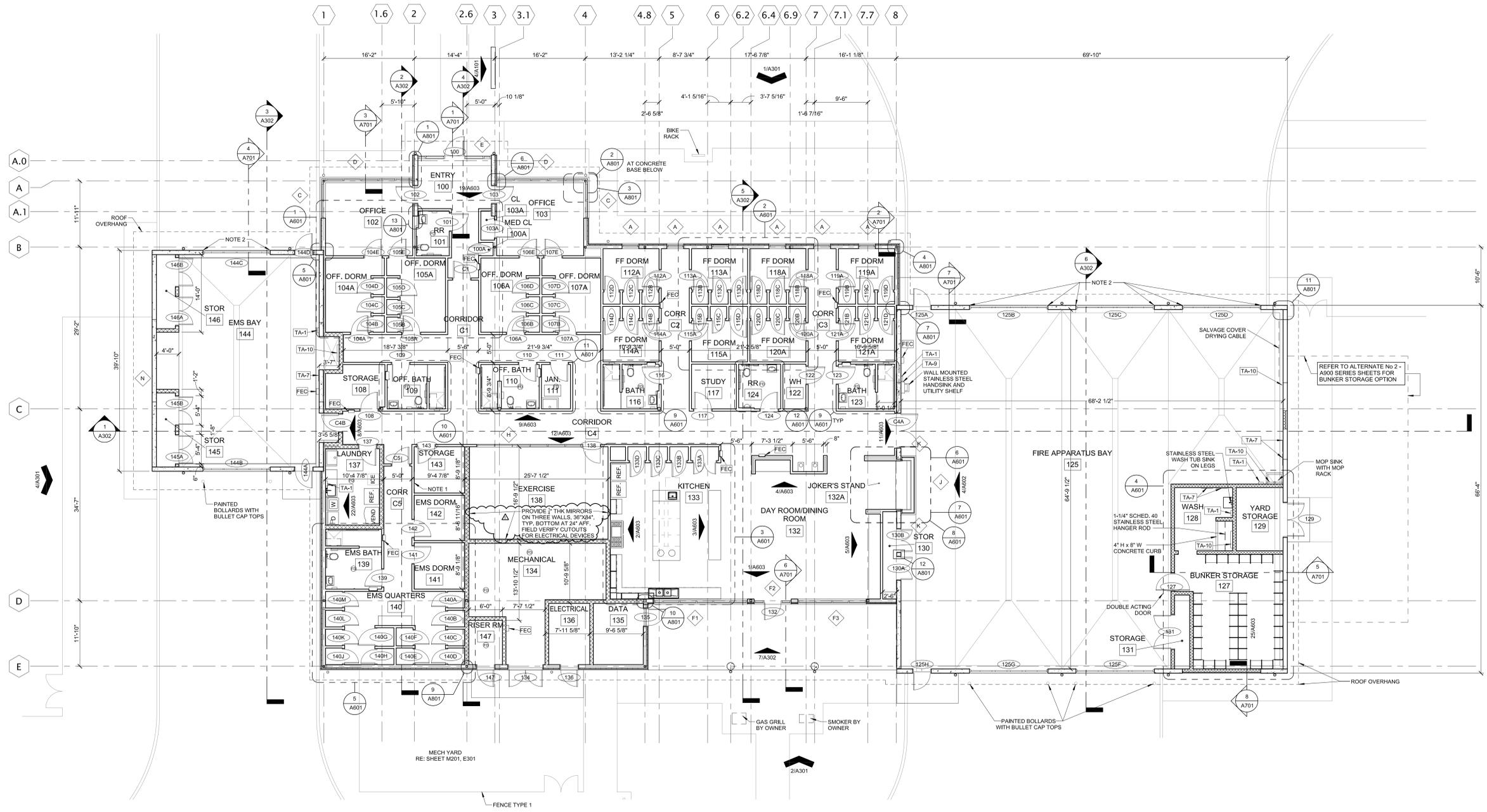


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Δ	05/17/2016	ADDENDUM NO. 2

Date	02/15/16	Checked By	HM
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Project Number	89600	Drawn By	HM
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Sheet Title
FLOOR PLAN



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



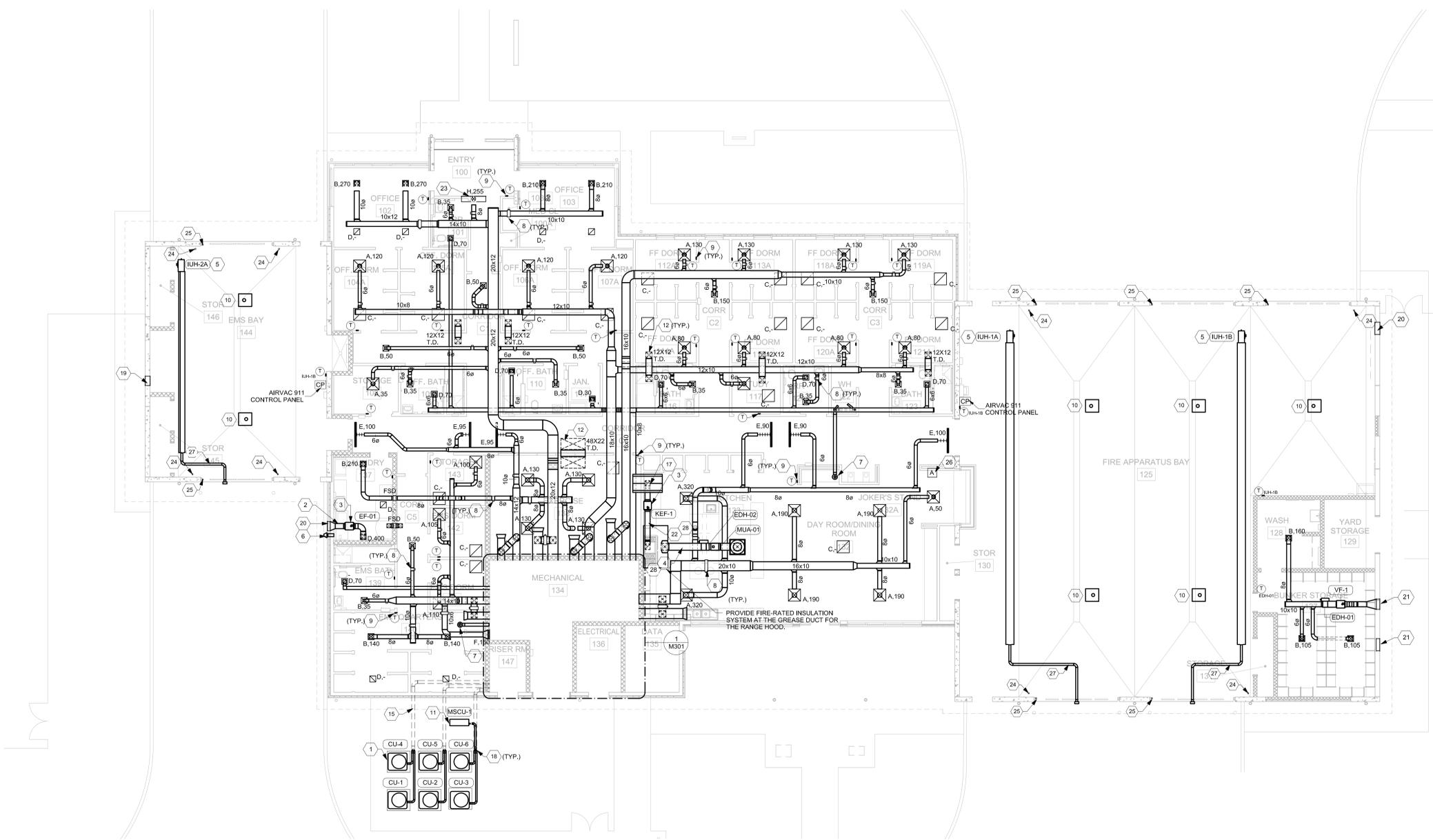
- NOTES
1. PROVIDE STUD FRAMING FOR FUTURE RELOCATION OF DOOR 143 BY OWNER.
 2. PROVIDE CAST IRON CORNER WHEEL GUARDS ON THE EXTERIOR SIDE JAMB OF OVERHEAD DOOR 125B, 125C, 125D, AND 144C.
 3. REFER TO SHEET A601 FOR TOILET ACCESSORY SCHEDULE.

MECHANICAL KEYED NOTES:

1. PROVIDE AN AIR COOLED CONDENSING UNIT AS SCHEDULED. MOUNT UNIT ON A 4" HOUSEKEEPING PAD AS RECOMMENDED BY THE MANUFACTURER. PROVIDE NEOPRENE INSULATED PADS AT EQUIPMENT UNDERNEATH BASERAL OF UNIT. INSTALL PER MANUFACTURER'S REQUIREMENTS.
2. 10"x 10" TO EXHAUST FAN EF-01 MOUNTED ABOVE CEILING. PROVIDE TOGGLE TYPE SWITCH ADJACENT TO ROOM LIGHT SWITCH. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
3. PROVIDE AN INLINE EXHAUST FAN AS INDICATED ON SCHEDULE. SUSPEND FROM STRUCTURE ABOVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A 24" X 24" ACCESS PANEL IN CEILING FOR SERVICE.
4. PROVIDE 14"x14" TO MAKE UP AIR SUPPLY FAN W/ ELECTRIC DUCT HEATER, LOCATED ABOVE CEILING. TERMINATE WITH ROOFTOP VENTILATOR. INSTALL PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE A GAS-FIRED INFRARED HEATER. SUSPEND HEATER FROM STRUCTURE ABOVE PER MANUFACTURER'S REQUIREMENTS. ROUTE FULL SIZED STAINLESS STEEL TYPE 'B' FLUE VENT THRU WALL AND TERMINATE WITH A WALL CAP. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL, STRUCTURAL AND FIRE DEPARTMENT EQUIPMENT.
6. PROVIDE FULL SIZE DRYER VENT THRU WALL. TERMINATE WITH MANUFACTURER'S WALL CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
7. 6" CONCENTRIC VENT UP TO ROOF FROM WATER HEATER. TERMINATE ABOVE ROOF WITH A CONCENTRIC ROOFCAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
8. PROVIDE ZONE DAMPER AS SHOWN. INSTALL PER MANUFACTURER'S REQUIREMENTS. (TYP.) FOR SIZING RE: M404.
9. MOUNT THERMOSTAT ON WALL AT APPROXIMATELY 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. (TYP.) REFER TO DETAIL.
10. PROVIDE AIRVAC 911 ENGINE EXHAUST REMOVAL SYSTEM. SUSPEND 18" BELOW STRUCTURE. LOCATE UNIT MINIMUM OF 24" FROM OBSTRUCTIONS. INSTALL PER MANUFACTURER'S REQUIREMENTS.
11. AIR COOLED CONDENSING UNIT FOR DUCTLESS MINI-SPLIT. INSTALL PER MANUFACTURER'S REQUIREMENTS.
12. PROVIDE TRANSFER AIR DUCT. SIZE AS INDICATED. REFER TO DETAIL.
13. ELECTRIC HEATER MOUNTED 12" BELOW STRUCTURE. SET TEMPERATURE TO 50F (ADJUSTABLE).
14. PROVIDE HI/LOW COMBUSTION AIR DUCTS UP THRU ROOF MOUNTED VENTILATOR HOOD SIMILAR TO GREENHECK MODEL FOR WITH 1.5 S.F. MINIMUM FREE AREA. INSTALL HOOD PER MANUFACTURER'S REQUIREMENTS. TERMINATE 10" X 10" HI 12" BELOW ROOF STRUCTURE WITHIN MECHANICAL ROOM AND TERMINATE 10" X 10" LOW 12" ABOVE FINISHED FLOOR.

MECHANICAL GENERAL NOTES:

1. OUTSIDE AIR INTAKE OPENINGS SHALL BE A MINIMUM OF 15 FEET FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE.
2. ALL SUPPLY AIR DUCT SHALL HAVE 2" EXTERNAL INSULATION.
3. DUCTS SHALL BE GALVANIZED STEEL, EXCEPT WHERE NOTED. SUBSTITUTIONS OF ROUND OR RECTANGULAR SHALL BE OF EQUAL OR LESS AIR RESISTANCE PER ASHRAE TABLES. CONNECT TO ALL DIFFUSERS WITH FLEXIBLE DUCT. LENGTH NOT TO EXCEED 6 FEET.
4. INTERNAL LINING OF DUCT SHALL NOT BE USED, EXCEPT WHERE NOTED. INSULATED FLEXIBLE DUCTS SHALL HAVE INNER SURFACES OF MYLAR OR FOIL.
5. DUCTS MAY BE LARGER THAN SIZE INDICATED, AS CONVENIENT, EXCEPT WHERE INTERFERENCES RESULT FROM OVER SIZING DUCT.
6. PROVIDE VANDAL-PROOF, CLEAR, LOCKABLE ENCLOSURES FOR ALL THERMOSTATS WITHIN PUBLIC AREAS.
7. DUCT RUN SECTIONS NOT LABELED FOR SIZE SHALL BE THE SAME SIZE AS NEAREST SIZE LABEL UPSTREAM.
8. ALL FIELD CONTROL WIRING AND INTERLOCK WIRING SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
9. THE INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH APPLICABLE NATIONAL, AND LOCAL CODES AND REGULATIONS AND TO THE SATISFACTION OF ALL AUTHORITIES HAVING JURISDICTION.
10. PROVIDE MANUAL DAMPERS TO SUPPLY DIFFUSERS AND EXHAUST GRILLES. PROVIDE ROTO-TWIST DAMPERS FOR SUPPLY DIFFUSERS AND EXHAUST GRILLES IN INACCESSIBLE CEILINGS.
11. PROVIDE ACCESS HATCHES FOR EQUIPMENT IN SPACES THAT ARE NOT ACCESSIBLE.
12. THE CONTRACTOR IS TO KEEP THE JOB SITE NEAT AND ORDERLY. DO NOT STORE ANY EQUIPMENT ON THE FLOOR OF THE JOB SITE.
13. PROVIDE A MINIMUM 2-HOUR RATED FOIL-FACED DUCT WRAP INSULATION FOR GREASE DUCTS RATED FOR A MINIMUM OF 2000 DEG F AND ZERO CLEARANCE TO COMBUSTIBLES.
14. CONDENSATE PIPING SHALL BE COPPER.
15. SUPPORT CONDENSATE PIPING TO PREVENT ANY SAG GREATER THAN 1/2" WHEN FULL OF WATER. CONDENSATE PIPING SHALL BE LEVEL OR SLOPE TOWARD DRAIN, WITH NO UPWARD SECTIONS THAT DO NOT DRAIN.
16. CONDENSATE PIPING SHALL BE INSULATED 1" MINIMUM, SEALED VAPORTIGHT WITH NO EXPOSED CREVICES. PAINT EXPOSED INSULATION PER ARCHITECT'S DIRECTION.



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

Consultant



1917 N. New Braunfels Ave. Ste. 201
San Antonio, Texas 78208
(210) 224-8841, (210) 224-8824 FAX
Texas Registered Firm No. F-7964



SCOTT M. MOORE
106184

CITY OF SAN ANTONIO
COSA FIRE STATION NO. 2
CONSTRUCTION DOCUMENTS

W. VILLARET BOULEVARD & S. ZARZAMORA STREET
SAN ANTONIO, TEXAS 78224

Architects

FORD POWELL & CARSON
ARCHITECTS & PLANNERS, INC.

Architecture
Planning
Preservation
Interior Design

1108 East Commerce Street
San Antonio, Texas 78205
(210) 224-1246

CONSTRUCTION DOCUMENTS

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1	5/17/2016	ADDENDUM NO. 2

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05/17/2016	SMM
Project Number	Drawn By
89600	OE

Sheet Title

MECHANICAL FLOOR PLAN
BASE PLAN

Sheet Number

M201

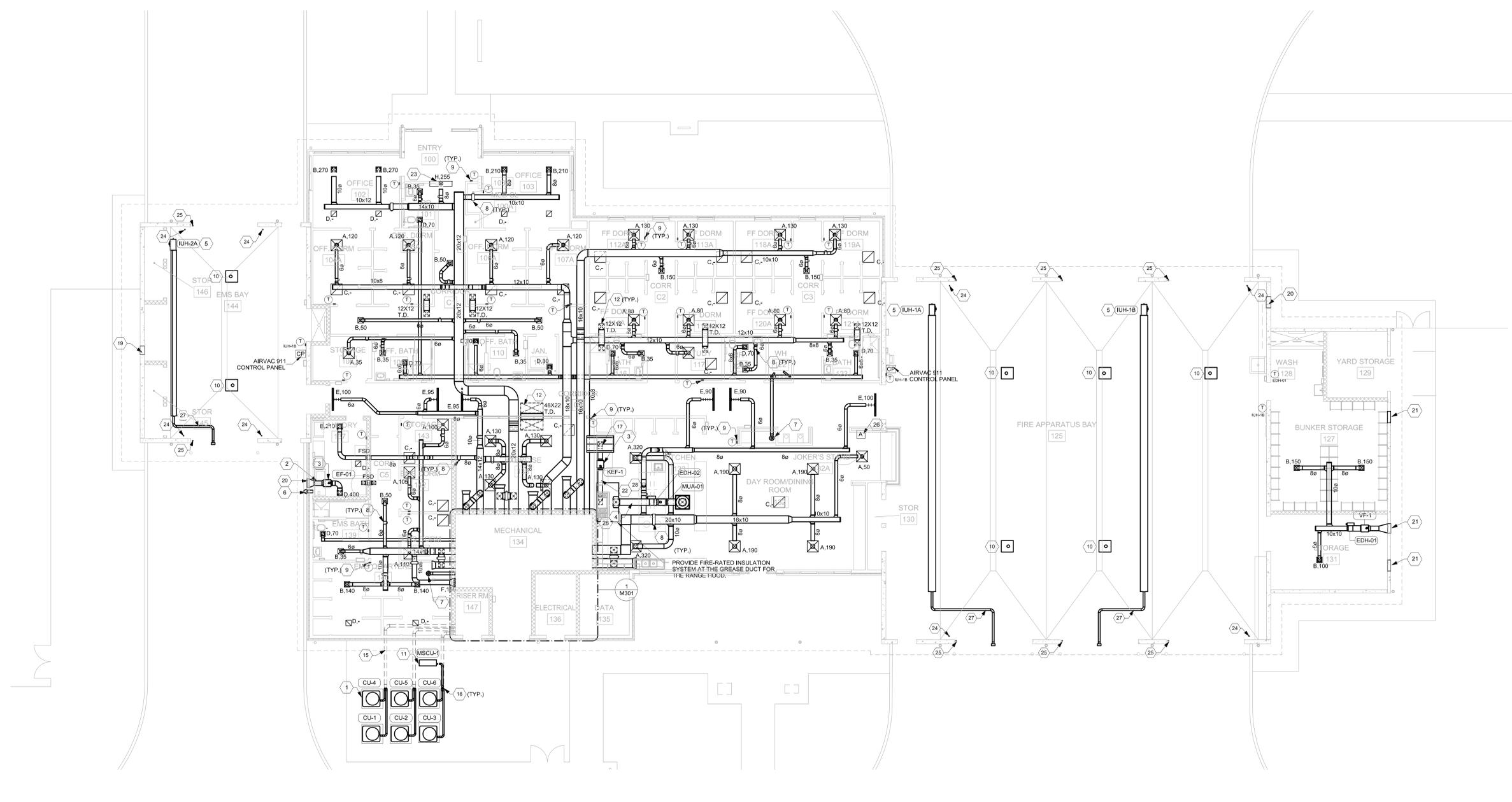
MECHANICAL KEYED NOTES:

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6. PROVIDE FULL SIZE DRYER VENT THRU WALL. TERMINATE WITH MANUFACTURER'S WALL CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
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8. PROVIDE ZONE DAMPER AS SHOWN. INSTALL PER MANUFACTURER'S REQUIREMENTS. (TYP.) FOR SIZING RE: M04.
9. MOUNT THERMOSTAT ON WALL AT APPROXIMATELY 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. (TYP.) REFER TO DETAIL.
10. PROVIDE AIRVAC 911 ENGINE EXHAUST REMOVAL SYSTEM. SUSPEND 18" BELOW STRUCTURE. LOCATE UNIT MINIMUM OF 24" FROM OBSTRUCTIONS. INSTALL PER MANUFACTURER'S REQUIREMENTS.
11. AIR COOLED CONDENSING UNIT FOR DUCTLESS MINI-SPLIT. INSTALL PER MANUFACTURER'S REQUIREMENTS.
12. PROVIDE TRANSFER AIR DUCT. SIZE AS INDICATED. REFER TO DETAIL.
13. ELECTRIC HEATER MOUNTED 12" BELOW STRUCTURE. SET TEMPERATURE TO 50F (ADJUSTABLE).
14. PROVIDE HI/LOW COMBUSTION AIR DUCTS UP THRU ROOF MOUNTED VENTILATOR HOOD SIMILAR TO GREENHECK MODEL FOR WITH 1.5 S.F. MINIMUM FREE AREA. INSTALL HOOD PER MANUFACTURER'S REQUIREMENTS. TERMINATE 10' X 10' HI 12" BELOW ROOF STRUCTURE WITHIN MECHANICAL ROOM AND TERMINATE 10' X 10' LOW 12" ABOVE FINISHED FLOOR.

15. PROVIDE 6" CONDUIT UNDER SLAB. ROUTE REFRIGERANT PIPING WITHIN CONDUIT TO BUILDING AS INDICATED.
16. FLUE GAS VENT UP THRU ROOF. TERMINATE WITH ROOF CAP.
17. 10'X10' GREASE DUCT ROUTED FROM KEF-1 UP THRU ROOF MOUNTED VENTILATOR HOOD SIMILAR TO GREENHECK MODEL FOR WITH 1.0 S.F. MINIMUM FREE AREA. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO DETAIL.
18. PROVIDE VAULT PENETRATION HOUSING MODEL AL201412. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
19. PROVIDE WIND DRIVEN RAIN RESISTANT LOUVER BY ARCHITECT WITH 0.5 S.F. MINIMUM FREE AREA. RE: ARCHITECT FOR MOUNTING HEIGHT.
20. PROVIDE WIND DRIVEN RAIN RESISTANT LOUVER BY ARCHITECT WITH 1.0 S.F. MINIMUM FREE AREA. RE: ARCHITECT FOR MOUNTING HEIGHT.
21. PROVIDE WIND DRIVEN RAIN RESISTANT LOUVER BY ARCHITECT WITH 1.2 S.F. MINIMUM FREE AREA. RE: ARCHITECT FOR MOUNTING HEIGHT.
22. SLOPE GREASE DUCT TOWARD THE KITCHEN HOOD AT A MINIMUM OF 1/4 INCH PER FOOT. INSTALL DUCT IN ACCORDANCE WITH SMACNA STANDARDS. PROVIDE ACCESS FOR MAINTENANCE OF GREASE DUCTS.
23. MOUNT 10' A.F.F. TO CENTER OF AIR DEVICE.
24. PROVIDE INFRARED DOUBLE BEAM PHOTO EYE SENSOR TRANSMITTER RECEIVER FOR EXHAUST REMOVAL SYSTEM. INSTALL PER MANUFACTURER'S REQUIREMENTS.
25. PROVIDE TRACK MOUNTED MAGNETIC DOOR SWITCH FOR EXHAUST REMOVAL SYSTEM. INSTALL PER MANUFACTURER'S REQUIREMENTS.
26. PROVIDE REMOTE HIGH TEMPERATURE ALARM W/ AUXILIARY CONTACTOR ASSOCIATED W/ SENSOR IN IDF ROOM TO SOUND ALARM WHEN SPACE TEMPERATURE IN IDF ROOM RISES ABOVE 90 DEG. F. (ADJ.)
27. TYPE 'B' FLUE VENT FROM INFRARED UNIT HEATER. INSTALL PER MANUFACTURER'S REQUIREMENTS.
28. WRAP DUCTWORK AND ALL ASSOCIATED COMPONENTS WITHIN THE PLENUM WITH ACOUSTICAL SOLUTIONS, INC. AUDIOSOL PIPE AND DUCT WRAP MODEL # AB109F LAG, 1 LB. PER SQ. FT. SOUND MASS LOADED BARRIER WITH MYRAR REINFORCED FOIL FACING. APPLICATION OF WRAP SHALL ALLOW FOR DUCT AND EQUIPMENT SERVICE AND MAINTENANCE ACCESS, WHILE MAINTAINING A CONSISTENT SOUND BARRIER FOR THE SYSTEM. INSTALL PER MANUFACTURER'S REQUIREMENTS.
29. LEAK DETECTION SENSOR TO TIE IN TO BAS.

MECHANICAL GENERAL NOTES:

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11. PROVIDE ACCESS HATCHES FOR EQUIPMENT IN SPACES THAT ARE NOT ACCESSIBLE.
12. THE CONTRACTOR IS TO KEEP THE JOB SITE NEAT AND ORDERLY. DO NOT STORE ANY EQUIPMENT ON THE FLOOR OF THE JOB SITE.
13. PROVIDE A MINIMUM 2-HOUR RATED FOIL-FACED DUCT WRAP INSULATION FOR GREASE DUCTS RATED FOR A MINIMUM OF 2000 DEG F AND ZERO CLEARANCE TO COMBUSTIBLES.
14. CONDENSATE PIPING SHALL BE COPPER.
15. SUPPORT CONDENSATE PIPING TO PREVENT ANY SAG GREATER THAN 12" WHEN FULL OF WATER. CONDENSATE PIPING SHALL BE LEVEL OR SLOPE TOWARD DRAIN WITH NO UPWARD SECTIONS THAT DO NOT DRAIN.
16. CONDENSATE PIPING SHALL BE INSULATED 1" MINIMUM. SEALED VAPORTIGHT WITH NO EXPOSED CREVICES. PAINT EXPOSED INSULATION PER ARCHITECT'S DIRECTION.



1 MECHANICAL FLOOR PLAN - ALTERNATE
1/8" = 1'-0"

Consultant



1917 N. New Braunfels Ave. Ste. 201
San Antonio, Texas 78208
(210) 224-8841, (210) 224-8824 FAX
Texas Registered Firm No. F-7564



CITY OF SAN ANTONIO
COSA FIRE STATION NO. 2
CONSTRUCTION DOCUMENTS

W. VILLARET BOULEVARD & S. ZARZAMORA STREET
SAN ANTONIO, TEXAS 78224

Architects

**FORD
POWELL
& CARSON**
ARCHITECTS & PLANNERS, INC.

Architecture
Planning
Preservation
Interior Design
1120 East Commerce Street
San Antonio, Texas 78205
210.225-1246

**CONSTRUCTION
DOCUMENTS**

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△	5/17/2016	ADDENDUM NO. 2

Date	Checked By
05/17/2016	SMM
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89600	OE

Sheet Title
MECHANICAL FLOOR PLAN
ALTERNATE PLAN

Sheet Number
M201A



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 Planning
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 Interior Design
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 San Antonio, Texas 78205
 (210) 224-1236

**CONSTRUCTION
 DOCUMENTS**

Revisions		
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1	5/17/2016	ADDENDUM ON. 2

Date	Checked By
02/15/2016	DWS
Project Number	Drawn By
89600	DG

Sheet Title
**ELECTRICAL FLOOR PLAN
 BASE PLAN - LIGHTING**

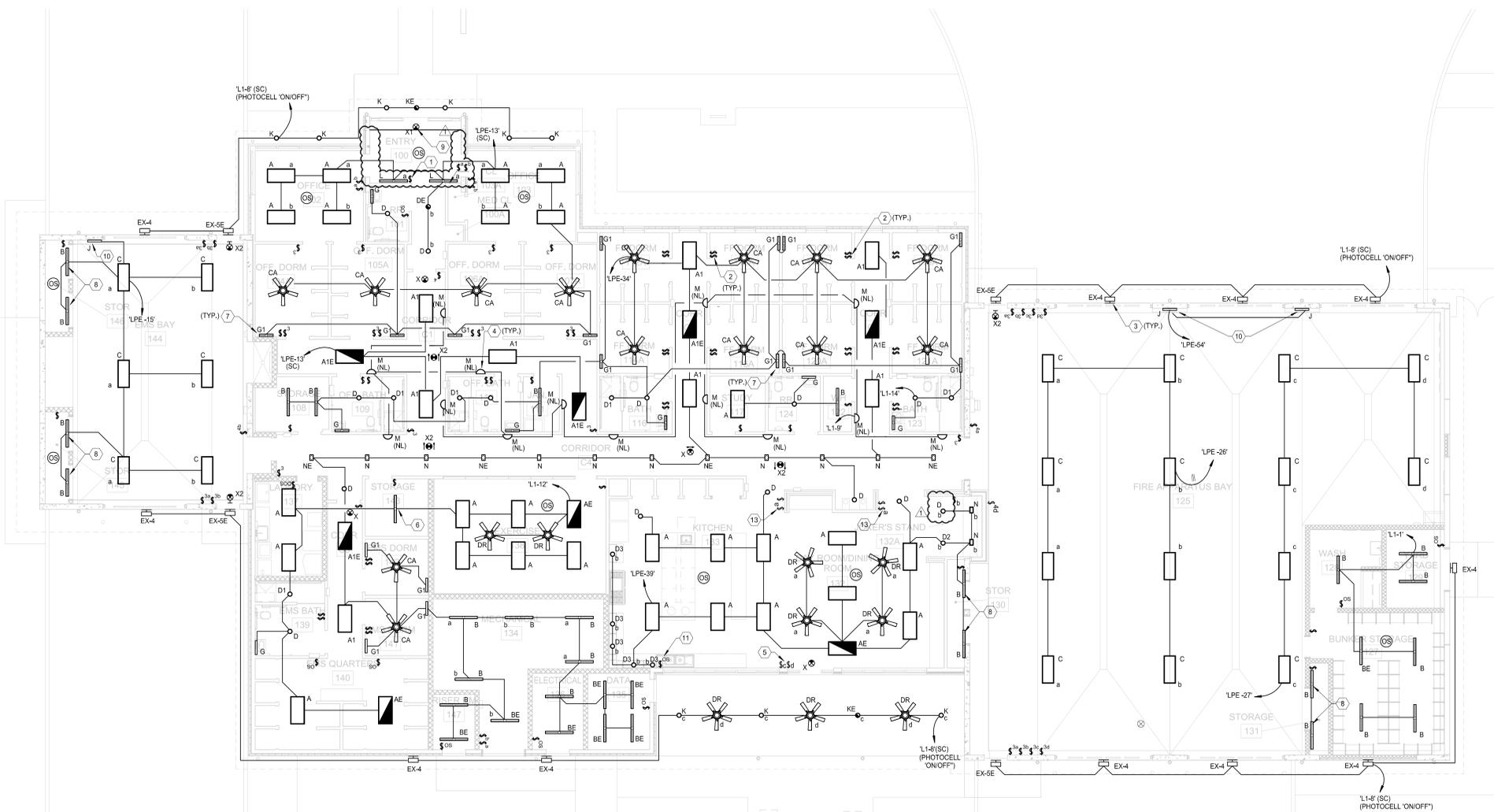
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E201

KEYED NOTES:

- 1 CONTROL SWITCH FOR SEASONAL RECEPTACLES WHICH ARE MOUNTED UNDER SOFFIT. RE: POWER FLOOR PLAN FOR LOCATION OF RECEPTACLES. PROVIDE NAMEPLATE.
- 2 CIRCUIT SWITCHES IN DORM ROOMS AS FOLLOWS:
 a. SWITCH NEAREST DOOR - CLG. FAN LIGHT
 b. OUTER SWITCH - CLG. FAN
- 3 RE: ARCHITECTURAL DRAWINGS FOR TYPE 'EX-4' MOUNTING HEIGHTS.
- 4 TYPE 'M' LIGHT FIXTURES SHALL BE ON UNSWITCHED CIRCUIT.
- 5 MOUNT CONTROLS IN DRY WALL PARTITION.
- 6 PROVIDE BRACING FOR JUNCTION BOX ABOVE CEILING FOR FUTURE CEILING FAN.
- 7 ALL "G" TYPE LIGHT FIXTURES SHALL BE MOUNTED.
- 8 MOUNT LIGHTING FIXTURE ON WALL ABOVE DOOR.
- 9 ROUTE EXIT SIGN CONDUIT AND CALL BUTTON CONDUIT THROUGH ALUMINUM FRAMING AT ENTRY DOOR 100. REFER TO ARCHITECTURAL 13/A403 FOR DETAIL.
- 10 ROUTE 3/4" EMPTY CONDUIT WITH PULL CORD TO JOKERS STAND FOR CONTROL WIRING TO INDOOR TRAFFIC LIGHTS. COORDINATE ROUTING ON JOB SITE.
- 11 MOUNT TRANSFORMER IN CABINET FOR UNDERCABINET LED TYPE LIGHTING. VERIFY CONCEALED LOCATION OF TRANSFORMER PRIOR TO ROUGH-IN. PROVIDE A 120V CIRCUIT TRANSFORMER FOR UNDERCABINET LIGHTING.

GENERAL NOTES

- 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 LIFE SAFETY BRANCH 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 ARCHITECTURAL/ENGINEERS PRIOR TO ROUGH-IN.
- F. PROVIDE FIRE-RATED MATERIAL AROUND ALL PENETRATIONS CREATED BY CONDUITS, CABLE TRAYS, ETC. IN FIRE RATED PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATED AREAS.
- G. ALL CONDUITS FOR EXTERIOR WALL PACK LIGHTING FIXTURES MOUNTED ON THE CANOPY ROOF AND THE COLUMNS OF THE BLDG. SHALL USE CONCEALED PATHWAYS ALONG THE CANOPY AND THE CONCRETE COLUMNS.
- H. PROVIDE SINGLE CIRCUIT, DUAL TECHNOLOGY (ULTRASONIC & INFRARED, EXCLUDING DORMS) WALL SWITCH OCCUPANCY SENSOR FOR CONTROL OF LIGHTING. SQUARE D SLS0WS1277U OR APPROVED EQUAL. (TYPICAL FOR OFFICES)
- I. PROVIDE DUAL CIRCUIT, DUAL TECHNOLOGY (ULTRASONIC & INFRARED, EXCLUDING DORMS) WALL SWITCH OCCUPANCY SENSOR FOR CONTROL OF LIGHTING. SQUARE D SLS0WD1277U OR APPROVED EQUAL. (TYPICAL FOR EXAM ROOMS)
- J. ALL J-BOXES ADJACENT TO EACH OTHER SHALL BE MOUNTED AT THE SAME HEIGHT.
- K. ALL CONDUIT, WHETHER INDOOR OR OUTDOORS SHALL REMAIN UNPAINTED PER FIRE DEPARTMENT DESIGN STANDARDS.





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 COSA FIRE STATION NO. 2
 CONSTRUCTION DOCUMENTS
 W. VILLARET BOULEVARD & S. ZARZAMORA STREET
 SAN ANTONIO, TEXAS 78224

Architects
**FORD
 POWELL
 & CARSON**
 ARCHITECTS & PLANNERS, INC.
 Architecture
 Planning
 Preservation
 Interior Design
 1138 East Commerce Street
 San Antonio, Texas 78205
 (210) 224-1138

**CONSTRUCTION
 DOCUMENTS**

Mark	Date	Description
△	5/17/2016	ADDENDUM ON. 2

Date	02/15/2016	Checked By	DWS
Project Number	89600	Drawn By	DG
Sheet Title	ELECTRICAL FLOOR PLAN ALT. PLAN - LIGHTING		

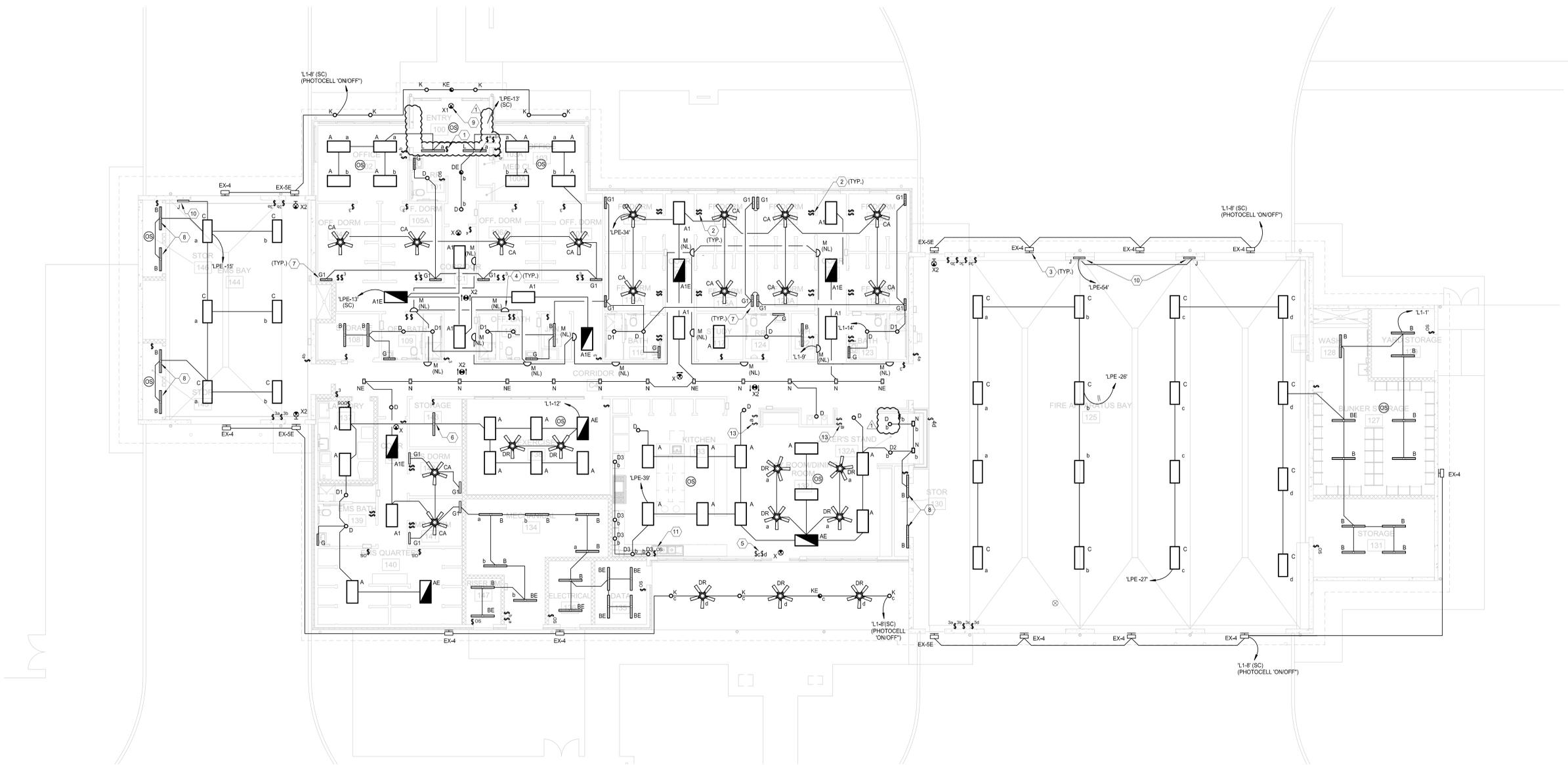
Sheet Number
E201A

KEYED NOTES:

- ① CONTROL SWITCH FOR SEASONAL RECEPTACLES WHICH ARE MOUNTED UNDER SOFFIT. RE: POWER FLOOR PLAN FOR LOCATION OF RECEPTACLES. PROVIDE NAMEPLATE.
- ② CIRCUIT SWITCHES IN DORM ROOMS AS FOLLOWS:
 a. SWITCH NEAREST DOOR - CLG. FAN LIGHT
 b. OUTER SWITCH - CLG. FAN
- ③ RE: ARCHITECTURAL DRAWINGS FOR TYPE 'EX-4' MOUNTING HEIGHTS.
- ④ TYPE 'M' LIGHT FIXTURES SHALL BE ON UNSWITCHED CIRCUIT.
- ⑤ MOUNT CONTROLS IN DRY WALL PARTITION.
- ⑥ PROVIDE BRACING FOR JUNCTION BOX ABOVE CEILING FOR FUTURE CEILING FAN.
- ⑦ ALL "G" TYPE LIGHT FIXTURES SHALL BE MOUNTED.
- ⑧ MOUNT LIGHTING FIXTURE ON WALL ABOVE DOOR.
- ⑨ ROUTE EXIT SIGN CONDUIT AND CALL BUTTON CONDUIT THROUGH ALUMINUM FRAMING AT ENTRY DOOR 100. REFER TO ARCHITECTURAL 13/A403 FOR DETAIL.
- ⑩ ROUTE 3/4" EMPTY CONDUIT WITH PULL CORD TO JOCKERS STAND FOR CONTROL WIRING TO INDOOR TRAFFIC LIGHTS. COORDINATE ROUTING ON JOB SITE.
- ⑪ MOUNT TRANSFORMER IN CABINET FOR UNDERCABINET LED TYPE LIGHTING. VERIFY CONCEALED LOCATION OF TRANSFORMER PRIOR TO ROUGH-IN. PROVIDE A 120V CIRCUIT TI TRANSFORMER FOR UNDERCABINET LIGHTING.

GENERAL NOTES:

- A. CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. VERIFY FIELD CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT APPROXIMATE CONDUIT ROUTINGS 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 LIFE SAFETY BRANCH 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 ARCHITECTURAL/ENGINEERS PRIOR TO ROUGH-IN.
- F. PROVIDE FIRE-RATED MATERIAL AROUND ALL PENETRATIONS CREATED BY CONDUITS, CABLE TRAYS, ETC. IN FIRE RATED PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATED AREAS.
- G. ALL CONDUITS FOR EXTERIOR WALL PACK LIGHTING FIXTURES MOUNTED ON THE CANOPY ROOF AND THE COLUMNS OF THE BLDG. SHALL USE CONCEALED PATHWAYS ALONG THE CANOPY AND THE CONCRETE COLUMNS.
- H. PROVIDE SINGLE CIRCUIT, DUAL TECHNOLOGY (ULTRASONIC & INFRARED, EXCLUDING DORMS) WALL SWITCH OCCUPANCY SENSOR FOR CONTROL OF LIGHTING. SQUARE D SLS0WS1277U OR APPROVED EQUAL. (TYPICAL FOR OFFICES)
- I. PROVIDE DUAL CIRCUIT, DUAL TECHNOLOGY (ULTRASONIC & INFRARED, EXCLUDING DORMS) WALL SWITCH OCCUPANCY SENSOR FOR CONTROL OF LIGHTING. SQUARE D SLS0WD1277U OR APPROVED EQUAL. (TYPICAL FOR EXAM ROOMS)
- J. ALL J-BOXES ADJACENT TO EACH OTHER SHALL BE MOUNTED AT THE SAME HEIGHT.
- K. ALL CONDUIT, WHETHER INDOOR OR OUTDOORS SHALL REMAIN UNPAINTED PER FIRE DEPARTMENT DESIGN STANDARDS.



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

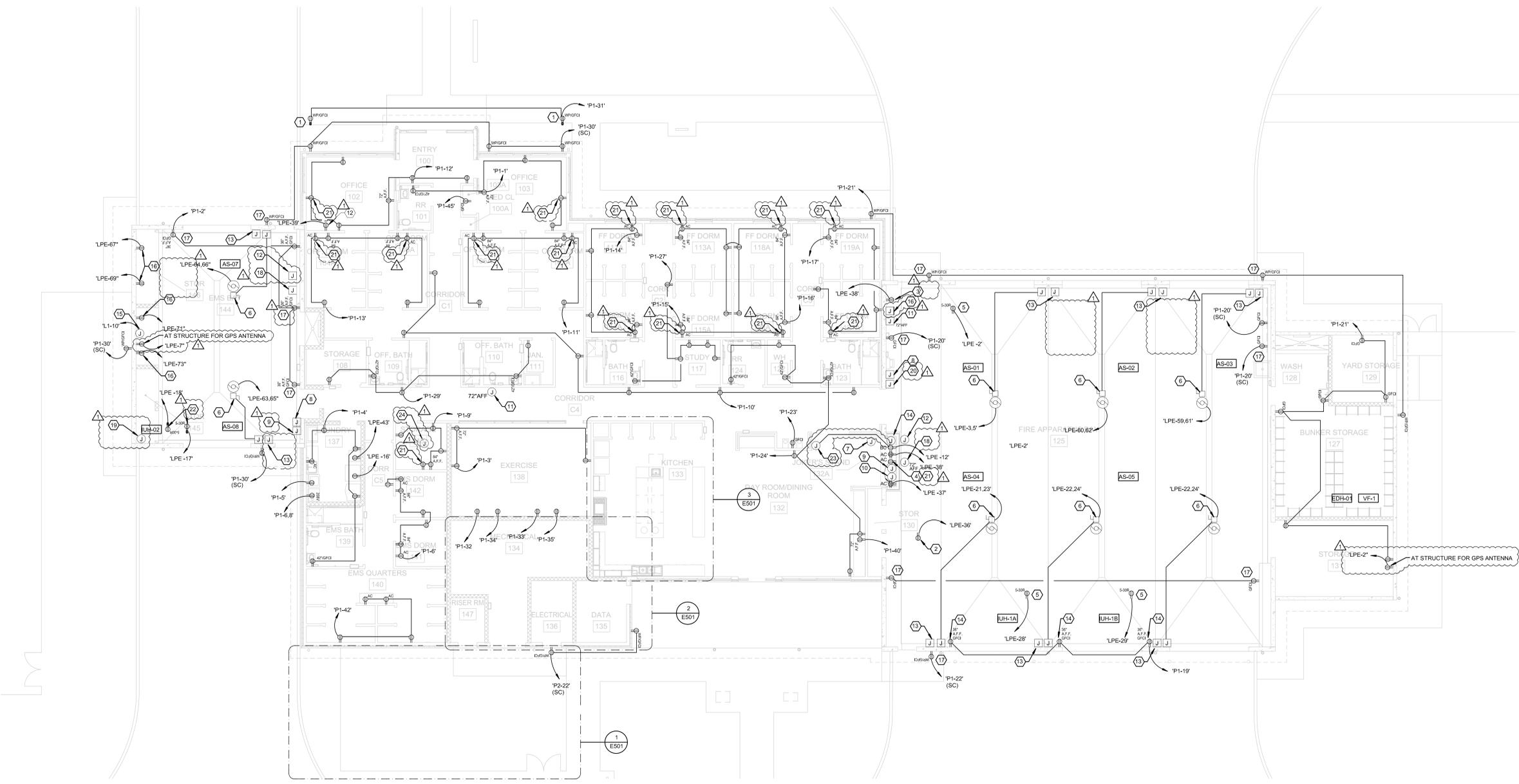
POWER KEYED NOTES:

1. RECEPTACLE AT SOFFIT FOR SEASONAL LIGHTING. COORDINATE EXACT LOCATION OF RECEPTABLE PRIOR TO ROUGH-IN.
2. NOT USED.
3. PROVIDE A WALL MOUNTED RECEPTACLE @ 7'-0" AFF FOR POWER TO THE PHOENIX TIMER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
4. JOKER STAND RECEPTABLES MOUNTED ABOVE COUNTER. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS. TYPICAL FOR EACH RECEPTACLE.
5. PROVIDE A DEDICATED, NEMA 5-20R SIMPLEX RECEPTACLE, ATTACHED TO SUPPORT AT LOWER CORD OF ROOFING FRAME. PROVIDE 5/16" DIAMETER, STAINLESS STEEL, EYE HOOK, SECURED TO FRAMING AND ADJACENT TO RECEPTACLE FOR ATTACHMENT OF CORD STRAIN RELIEF DEVICE LOOP. LOCATE RECEPTACLE ABOVE THE REAR EDGE OF THE DRIVERS DOOR OF ENGINE AND LADDER TRUCK VEHICLES IN APPARATUS BAYS. PROVIDE CORD ASSEMBLY WITH YELLOW OUTER JACKET, 12/3 COPPER SOOW CORD, NEMA 5-20 AND NEMA 5-20P DEVICES ON OPPOSITE ENDS. PROVIDE SINGLE EYE BUS, DROP GRID FOR STRAIN RELIEF AT PLUG END OF CORD ASSEMBLY (KELLEMS #07304129 OR EQUAL). OVERALL CORD ASSEMBLY LENGTH SHALL BE 36" LESS THAN HEIGHT OF THE RECEPTACLE ABOVE FINISHED FLOOR ELEVATION. PROVIDE A SECOND PLUG, CORD AND RECEPTACLE ASSEMBLY AS SPECIFIED ABOVE, EXCEPT WITHOUT STRAIN RELIEF AND 18" IN LENGTH FOR FINAL CONNECTION TO VEHICLE.
6. PROVIDE 30A/2P FUSED DISCONNECT SWITCH AND MOUNT ADJACENT TO DOOR LIFT MOTOR.
7. PROVIDE A FLUSH MOUNT J-BOX FOR POWER TO THE PHOENIX ATX PANEL. VERIFY AND COORDINATE HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
8. PROVIDE A JUNCTION BOX, FLUSH MOUNT WITH WALL FOR PUSH BUTTON INSTALLATION. PUSH BUTTON SHALL CONTROL PEDESTRIAN WARNING SIGNS, TRAFFIC WARNING SIGNS AND FLASHER BEACON LIGHT. RE: E101 FOR LOCATIONS OF WARNING SIGNS. COORDINATE EXACT LOCATION AND HEIGHT OF PUSH BUTTON PRIOR TO ROUGH-IN.
9. PROVIDE FIVE (5) JUNCTION BOXES ABOVE CABINET AND MOUNT FLUSH WITH WALL FOR FIRE BAY OVERHEAD DOOR CONTROLS.
10. PROVIDE A JUNCTION BOX ABOVE COUNTER AND MOUNT FLUSH WITH WALL FOR EXTERIOR MOTORIZED GATE CONTROLS. JUNCTION BOX SHALL INCLUDE EXTERIOR GATE ACTIVATION CONTROL WIRING AND INTERCOM WIRING. COORDINATE EXACT LOCATION AND HEIGHT OF PUSH BUTTON DEVICE. RE: SHEET E101 FOR GATE LOCATION.
11. PROVIDE A 120V BRANCH CIRCUIT, HARDWIRE POINT OF CONNECTION FOR FIRE ALARM CONTROL PANEL.
12. PROVIDE A FLUSH MOUNTED JUNCTION BOX FOR POWER TO AIR SCRUBBER CONTROL PANEL. VERIFY AND COORDINATE EXACT HEIGHT AT JOB SITE PRIOR TO ROUGH-IN. ALL CONDUCTORS RELATED TO THE CONTROLS OF THE SCRUBBER SHALL BE COORDINATED WITH MANUFACTURERS REQUIREMENTS.

13. PROVIDE A SURFACE MOUNTED J-BOX FOR POWER TO OVERHEAD DOOR MOTOR. COORDINATE HEIGHT PRIOR TO ROUGH-IN.
14. PROVIDE A RECESSED ANTENNA J-BOX INSIDE BOTTOM OF CABINET AND A 3" EMPTY CONDUIT RISING UP TO ANTENNA ON ROOF. REFER TO ARCHITECTURAL DRAWING 106.1 FOR EXACT LOCATION OF ANTENNA ON ROOF. RE: ARCHITECTURAL SECTION FOR ROUTING OF EMPTY CONDUIT FROM JOKERS STAND TO ROOF.
15. PROVIDE A WALL MOUNTED, WEATHERPROOF J-BOX FOR POWER TO IRRIGATION CONTROL. VERIFY HEIGHT AND EXACT LOCATION PRIOR TO ROUGH-IN.
16. COORDINATE EXACT LOCATION OF EMS PHARMACEUTICAL REFRIGERATORS WITH OWNER PRIOR TO ROUGH-IN.
17. MOUNT RECEPTACLE FLUSH WITH CONCRETE TILT-UP WALL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL DETAILS.
18. PROVIDE A 4"x4"x3" WALL FLUSH MOUNTED J-BOX FOR ELECTRONIC READER. RE: ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
19. PROVIDE A J-BOX AND EMPTY CONDUIT WITH PULL CORD ABOVE CEILING AT APPROXIMATELY THIS LOCATION FOR WARNING FLASH SIGN ANTENNA. COORDINATE AND VERIFY EXACT LOCATION OF ANTENNA PRIOR TO ROUGH-IN. VERIFY REQUIREMENTS FOR COMPLETE INSTALLATION OF J-BOX/EMPTY CONDUITS.
20. PROVIDE A J-BOX AND MOUNT FLUSH WITH WALL FOR FIRE BAY OVERHEAD DOORS CONTROL.
21. DEVICE SHALL BE A POWER/USB CHARGING TYPE DEVICE, PROVIDE TAMPER PROOF, DUPLEX RECEPTACLE WITH INTEGRAL USB 2.0 TYPE A, CHARGING SOCKET.
22. PROVIDE TWO (2) RECEPTABLES AND CORD ASSEMBLIES AS DESCRIBED IN KEY NOTE NO. 5. LOCATE ABOVE THE REAR LEFT CORNER OF EMS VEHICLE BAY. PROVIDE THE WRAPS FOR CORDS TO PREVENT ENTANGLEMENT.
23. PROVIDE A FLUSH MOUNTED J-BOX FOR POWER TO THE EMERGENCY GAS SHUT-OFF PANEL. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
24. PROVIDE A J-BOX ABOVE CEILING FOR FUTURE DORM ELECTRICAL BRANCH CIRCUITS.

GENERAL NOTES: THIS SHEET ONLY

- A. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIRE/SMOKE DAMPERS. CONNECT NO MORE THAN FOUR(4) DAMPERS TO CIRCUITS INDICATED IN PANEL SCHEDULE. DAMPERS ON DIFFERENT FLOORS SHALL NOT BE CONNECTED TOGETHER. DAMPER CONTROL SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF ALL FIRE/SMOKE DAMPERS.
- B. PROVIDE 120V POWER FOR ALL ADA DOOR OPENINGS, SLIDING DOORS AND OVERHEAD COLING DOORS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH ARCHITECTURAL AND SECURITY DRAWINGS. CONNECT TO AVAILABLE 20A/1P SPARE CRITICAL POWER BRANCH CIRCUIT.
- C. PROVIDE 120V POWER TO EACH HVAC DDC CONTROL PANEL. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS. CONNECT TO AVAILABLE 20A/1P SPARE CRITICAL BRANCH POWER CIRCUIT.
- D. PROVIDE LISTED FIRE-STOP AND CAULKING TO MAINTAIN INTEGRITY OF RATED WALLS AT ALL RACEWAY AND CABLE TRAY PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS.
- E. REFERENCE EQUIPMENT CONNECTION SCHEDULE, SHEET E501, FOR REQUIREMENTS AND ADDITIONAL INFORMATION OF TAGGED EQUIPMENT SHOWN ON PLAN DRAWINGS.
- F. CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT THE APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER.
- G. LOCATIONS OF DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
- H. COORDINATE ALL RECEPTACLE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS AND IT DRAWINGS.
- I. PROVIDE 120V CIRCUIT FOR CONTROL POWER TO VAV BOXES. CIRCUIT 6 OR LESS BOXES TO A CIRCUIT. PROVIDE 20-AMP TOGGLE SWITCH ADJACENT TO EACH VAV BOX, MOUNTED INDEPENDENTLY OF EQUIPMENT.
- J. RECEPTABLES CONNECTED TO AN EMERGENCY POWER CIRCUIT SHALL BE RED IN COLOR.
- K. ALL RECEPTABLES SHALL BE COMMERCIAL, SPECIFICATION GRADE UNLESS NOTED OTHERWISE.
- L. RECEPTABLES LOCATED WITHIN 6' OF ANY PLUMBING FIXTURE, COUNTERTOPS, AT THE EXTERIOR, OR OTHERWISE EXPOSED TO WATER SHALL BE TYPE GFCI. PROVIDE IN-USE, CAST ALUMINUM COVERS FOR EXTERIOR RECEPTABLES.
- M. IDENTIFY PANEL AND CIRCUIT NUMBER FOR ALL INSTALLED ELECTRICAL DEVICES ON THE INSIDE OF THE JUNCTION BOX.
- N. ALL J-BOXES ADJACENT TO EACH OTHER SHALL BE MOUNTED AT THE SAME HEIGHT.
- O. PROVIDE 120V EMERGENCY POWER FOR ALL DOOR OPERATORS, CARD READERS, MAG LOCKS, ELECTRIC STRIKES AND EMERGENCY PANIC DOORS. COORDINATE EXACT LOCATIONS, QUANTITIES AND ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL AND SECURITY DRAWINGS. CONNECT TO AVAILABLE 20A/1P SPARE EMERGENCY POWER BRANCH CIRCUIT.



1 ELECTRICAL FLOOR PLAN - POWER - ALTERNATE
1/8" = 1'-0"



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Architects
FORD POWELL & CARSON
 ARCHITECTS & PLANNERS, INC.
 Architecture
 Planning
 Preservation
 Interior Design
 1101 East Commerce Street
 San Antonio, Texas 78205
 210.224-1200

CONSTRUCTION DOCUMENTS

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Δ	5/17/2016	ADDENDUM ON 2

Date	05/17/2016	Checked By	DWS
Project Number	89600	Drawn By	DG

Sheet Title
 ELECTRICAL FLOOR PLAN
 ALT. PLAN - POWER

Sheet Number
E301A



CITY OF SAN ANTONIO
COSA FIRE STATION NO. 2
CONSTRUCTION DOCUMENTS
W. VILLARET BOULEVARD & S. ZARZAMORA STREET
SAN ANTONIO, TEXAS 78224

Architects

**FORD
POWELL
& CARSON**
ARCHITECTS & PLANNERS, INC.
Architecture
Planning
Preservation
Interior Design
1128 East Commerce Street
San Antonio, Texas 78205
210-224-1244

**CONSTRUCTION
DOCUMENTS**

Revisions

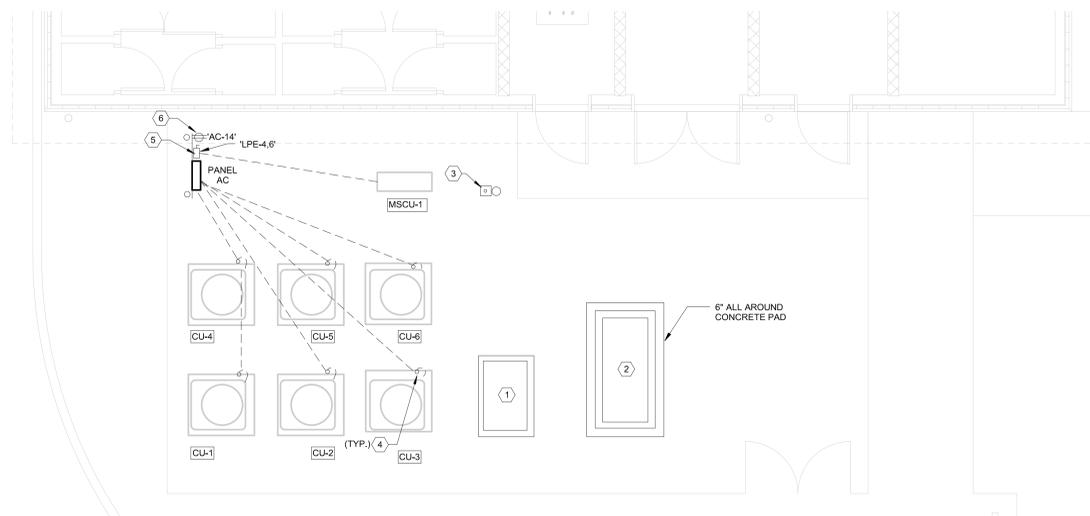
Mark	Date	Description
△	5/17/2016	ADDENDUM ON. 2

Date	Checked By
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89600	DG

Sheet Title
ENLARGED ELECTRICAL PLANS

Sheet Number

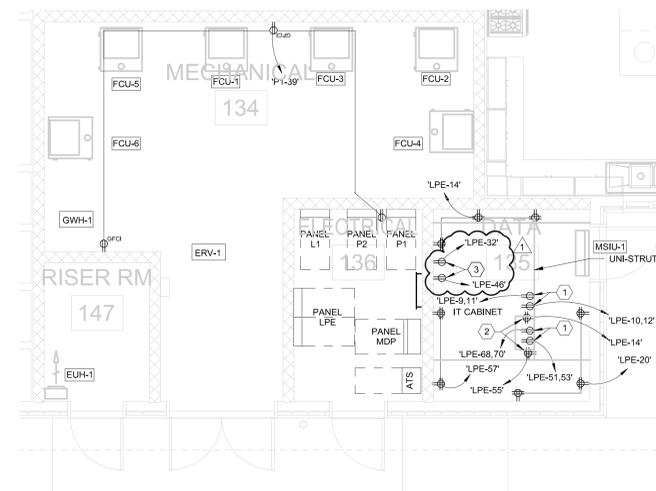
E501



1 ENLARGED YARD PLAN
1/8"=1'-0"

KEYED NOTES: (DETAIL NO. 1 ONLY)

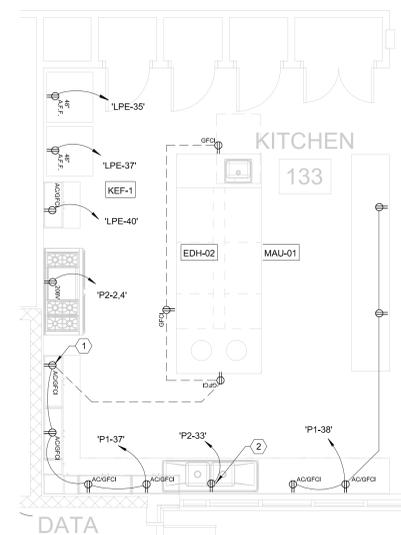
- GENERATOR TERMINATION BOX. RE: ONE LINE DIAGRAM.
- STANDBY GENERATOR. VERIFY EXACT LOCATION PER NEC CLEARANCES PRIOR TO ROUGH-IN. REFER TO INSTALLATION REQUIREMENTS FOR COMPLETE INSTALL. RE: 2/E601 FOR ELECTRICAL ONE-LINE DIAGRAM. REFER TO STRUCTURAL DRAWINGS FOR THE CONCRETE PAD FOUNDATION AT THE EMERGENCY GENERATOR.
- EMERGENCY SHUTOFF TO STANDBY GENERATOR. MOUNT ON GALVANIZED PIPE AT APPROXIMATELY THIS LOCATION. VERIFY PRIOR TO ROUGH-IN.
- PROVIDE POWER UNDERGROUND FROM PANEL 'AC' TO MECHANICAL EQUIPMENT AND RISE CONDUIT UP TO UNIT. PROVIDE FLEX CONDUIT TRANSITION FROM RIGID CONDUIT STUB-UP TO UNIT.
- PROVIDE A 30A/2P/NF/N3R DISCONNECT SWITCH. MOUNT ON FREE STANDING GALVANIZED RACK.
- IRRIGATION CONTROL PANEL TO BE MOUNTED ABOVE GFCI RECEPTACLE ON GALVANIZED RACK. CONNECT TO 120V BRANCH CIRCUIT ON PANEL 'AC'.



2 ENLARGED ELEC./IDF FLOOR PLAN
1/4"=1'-0"

KEYED NOTES: (DETAIL NO. 2 ONLY)

- THE 208 VAC J-BOX SHALL BE MOUNTED 8'-0" AFF TO A UNI-STRUT ABOVE THE EQUIPMENT CABINETS OR RACKS AND SHALL BE PROVIDED WITH A 7'-0" 'SO TYPE' CORD WITH FEMALE NEMA L5-20R RECEPTACLE ON THE END. VERIFY EXACT LOCATION OF RACK ON JOB SITE PRIOR TO ROUGH-IN.
- THE 120 VAC J-BOX SHALL BE MOUNTED 8'-0" TO A UNI-STRUT ABOVE THE EQUIPMENT CABINETS OR RACKS AND SHALL BE PROVIDED WITH A 7'-0" 'SO TYPE' CORD WITH A FEMALE NEMA 5-20R RECEPTACLE ON THE END.
- DEDICATED RECEPTACLES FOR PHOENIX ALERTING SYSTEM EQUIPMENT. VERIFY EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.



3 ENLARGED 1ST FLOOR KITCHEN PLAN
1/4"=1'-0"

KEYED NOTES: (DETAIL NO. 3 ONLY)

- 3/4" UNDERGROUND CONDUIT WITH 2#10 BRANCH CIRCUIT WIRING. RISE UP TO WALL MOUNTED RECEPTACLE. MOUNT RECEPTACLE ON ISLAND CABINET. VERIFY MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- PROVIDE AN UNDERCOUNTER RECEPTACLE FOR DISPOSAL. PROVIDE A WET RESISTANT TYPE SINGLE POLE TOGGLE SWITCH AND MOUNT ABOVE COUNTER AS CLOSE AS POSSIBLE TO SINK. PROVIDE 2#10, 1#10GND IN A 3/4" CONDUIT.

PANEL 'LPE'																																																	
PROJECT: Fire Station no. 2		MAIN CIRCUIT BREAKER: -		ENCLOSURE: NEMA 1		0 RCPT 5 HEAT																																											
PROJECT #: 0043-11		MAIN LUGS ONLY: 250A		MOUNTING: SURFACE		1 INT LITG 6 A/C																																											
LOCATION: ELECT. RM		BUSSING: 225A		CB TYPE: BOLT-ON		2 EXT LITG 7 KITCH																																											
NOTES:		VOLTAGE: 208/120V, 3PH, 4W		PROVIDE: NEUTRAL BUS		3 EQPT 8 ELEV																																											
		INTERRUPTING: 10kAIC		GROUND BUS		4 FANS 9 EWH																																											
1	20	1	DAY ROOM BIDDING LITG.	1,270	1	A	0	180	GPS ANTENNA	20	1	2																																					
2	30	2	APPARATUS BAY DOOR LIFT DISC.	1,250	0	B	-	2,248	MSCU-TMS(U)-1	20	2	4																																					
3	20	1	APPARATUS BAY DOOR LIFT DISC.	1,250	0	B	-	1,248	MSCU-TMS(U)-1	20	1	2																																					
7	20	1	GPS ANTENNA	180	0	A	0	720	JOKER STAND RECEPTACLES	20	1	8																																					
8	20	2	DATA 135 RECEPTACLE	1,250	0	B	-	1,250	DATA 135 RECEPTACLE	20	2	10																																					
11	20	1	ENTRY LIGHTING	1,250	0	C	0	1,250	DATA 135 RECEPTACLE	20	1	12																																					
13	20	1	EMTS BAY 144 LIGHTING	1,876	1	B	0	1,200	ROOM 3 REFRIGERATOR	20	1	14																																					
15	20	1	EMTS BAY POWER CORD	2,600	0	C	0	2,600	EMTS BAY POWER CORD	30	1	18																																					
17	20	1	SPARE			A	0	1,080	DATA 135 RECEPTACLE	20	1	20																																					
21	30	2	APPARATUS BAY DOOR LIFT DISC.	1,250	0	B	0	1,250	APPARATUS BAY DOOR LIFT DISC.	30	2	22																																					
25	20	1	CORRIDOR LIGHTING	1,428	1	A	1	1,620	EMTS BAY LIGHTING	20	1	26																																					
27	20	1	EMTS BAY LIGHTING	1,620	1	A	0	2,600	FIRE APPARATUS POWER CORD	30	1	28																																					
29	30	1	APPARATUS BAY POWER CORD	2,600	0	C	0	2,600	FIRE APPARATUS POWER CORD	30	1	30																																					
31	20	1	APPARATUS BAY POWER CORD	2,600	0	A	3	200	PHOENIX ALERTING SYSTEM	20	1	32																																					
33	20	1	APPARATUS BAY POWER CORD	2,600	0	B	-	2,256	FF-300A/305-FANS	20	1	34																																					
35	20	1	KITCHEN REFRIGERATOR	1,200	0	C	0	200	PS SIGNAL BOOSTER	20	1	36																																					
37	20	1	KITCHEN FREEZER	1,200	0	A	0	200	PHOENIX TIMER	20	1	38																																					
39	20	1	FACP	300	0	B	0	180	KITCHEN RECEPTACLE	20	1	40																																					
41	20	1	KEF-1	1,856	4	A/C	0	1,200	SITE GATE MOTOR	20	1	42																																					
43	20	1	ROOM 3 ICE MAKER	1,200	0	A	0	1,200	DATA 135 RECEPTACLE	20	1	44																																					
45	20	1	AS-01	1,200	4	A	3	200	PHOENIX ALERTING SYSTEM	20	1	46																																					
47	20	1	AS-02	1,200	4	B	4	1,200	AS-04	20	1	48																																					
49	20	1	AS-03	1,200	4	C	4	1,200	AS-05	20	1	50																																					
51	20	2	DATA 135 RECEPTACLE	1,250	0	A	4	1,200	APPARATUS WARNING LIGHTS	20	1	52																																					
55	20	1	DATA 135 RECEPTACLE	960	0	C	0	1,250	APPARATUS BAY DOOR LIFT DISC.	30	2	54																																					
57	20	1	DATA 135 RECEPTACLE	720	0	A	0	1,250	APPARATUS BAY DOOR LIFT DISC.	30	2	56																																					
59	30	2	APPARATUS BAY DOOR LIFT DISC.	1,250	0	B	0	1,250	APPARATUS BAY DOOR LIFT DISC.	30	2	58																																					
61				1,250	0	C	0	1,250	EMTS BAY DOOR LIFT DISCONNECT	30	2	62																																					
63	30	2	EMTS BAY DOOR LIFT DISCONNECT	1,250	0	B	0	1,250	EMTS BAY DOOR LIFT DISCONNECT	30	2	64																																					
67	20	1	MED. STORAGE A RECEPTACLE	1,200	0	C	0	1,250	DATA 135 RECEPTACLE	20	2	68																																					
69	20	1	MED. STORAGE B RECEPTACLE	1,200	0	A	0	1,250	DATA 135 RECEPTACLE	20	2	70																																					
71	20	1	MED. STORAGE C RECEPTACLE	1,200	0	B	3	4,500	GENERATOR LOAD CENTER	60	2	72																																					
73	20	1	MED. STORAGE D RECEPTACLE	1,200	0	C	3	4,500	GENERATOR LOAD CENTER	60	2	74																																					
75	20	1	SPARE			A	0		SPARE	20	1	76																																					
77	20	1	SPARE			B	0		SPARE	20	1	78																																					
79	20	1	SPARE			C	0		SPARE	20	1	80																																					
<table border="1"> <thead> <tr> <th>PANEL</th> <th>SUB</th> <th>FEED</th> <th>TOTAL</th> <th>TOTAL DEMAND</th> <th>NOTES:</th> </tr> <tr> <th>VA</th> <th>VA</th> <th>THRU</th> <th>CONN</th> <th>VA</th> <th>AMPS</th> </tr> </thead> <tbody> <tr> <td>PHASE A</td> <td>10,738</td> <td>-</td> <td>-</td> <td>10,738</td> <td>8.588</td> </tr> <tr> <td>PHASE B</td> <td>19,170</td> <td>-</td> <td>-</td> <td>19,170</td> <td>15.332</td> </tr> <tr> <td>PHASE C</td> <td>22,154</td> <td>-</td> <td>-</td> <td>22,154</td> <td>17.718</td> </tr> <tr> <td>TOTAL</td> <td>52,062</td> <td>-</td> <td>-</td> <td>52,062</td> <td>41.639</td> </tr> </tbody> </table>										PANEL	SUB	FEED	TOTAL	TOTAL DEMAND	NOTES:	VA	VA	THRU	CONN	VA	AMPS	PHASE A	10,738	-	-	10,738	8.588	PHASE B	19,170	-	-	19,170	15.332	PHASE C	22,154	-	-	22,154	17.718	TOTAL	52,062	-	-	52,062	41.639	REVISIONS:		CNG ENGINEERING, PLLC, R3.0	
PANEL	SUB	FEED	TOTAL	TOTAL DEMAND	NOTES:																																												
VA	VA	THRU	CONN	VA	AMPS																																												
PHASE A	10,738	-	-	10,738	8.588																																												
PHASE B	19,170	-	-	19,170	15.332																																												
PHASE C	22,154	-	-	22,154	17.718																																												
TOTAL	52,062	-	-	52,062	41.639																																												

PANEL 'L1'																																																	
PROJECT: Fire Station no. 2		MAIN CIRCUIT BREAKER: -		ENCLOSURE: NEMA 1		0 RCPT 5 HEAT																																											
PROJECT #: 0043-11		MAIN LUGS ONLY: 100A		MOUNTING: SURFACE		1 INT LITG 6 A/C																																											
LOCATION: ELECT. RM		BUSSING: 100A		CB TYPE: BOLT-ON		2 EXT LITG 7 KITCH																																											
NOTES:		VOLTAGE: 208/120V, 3PH, 4W		PROVIDE: NEUTRAL BUS		3 EQPT 8 ELEV																																											
		INTERRUPTING: 10kAIC		GROUND BUS		4 FANS 9 EWH																																											
1	20	1	BUNKER STORAGE LIGHTING	704	1	A	2	500	EXTERIOR LIGHTING	20	1	2																																					
3	20	1	PARKING LOT LIGHTING	900	2	B	2	448	EXTERIOR LIGHTING	20	1	4																																					
5	20	1	PARKING LOT LIGHTING	500	2	C	1	1,820	LAUNDRY AREA LIGHTING	20	1	6																																					
7	20	1	EXTERIOR SIGNAGE LIGHTING	500	2	A	2	288	EXTERIOR LIGHTING	20	1	8																																					
9	20	1	CORRIDOR LIGHTING	234	1	B	2	1,200	EXTERIOR SIGNAGE (WEST END)	20	1	10																																					
11	20	1	LIGHTING POLE RECEPTACLES	540	0	C			SPARE	20	1	12																																					
13	20	1	SPARE			A	0		SPARE	20	1	14																																					
15	20	1	SPARE			B	0		SPARE	20	1	16																																					
17	20	1	SPARE			C	0		SPARE	20	1	18																																					
19	20	1	SPARE			A	0		SPARE	20	1	20																																					
21	20	1	SPARE			B	0		SPARE	20	1	22																																					
23	20	1	SPARE			C	0		SPARE	20	1	24																																					
25	20	1	SPARE			A	0		SPARE	20	1	26																																					
27	20	1	SPARE			B	0		SPARE	20	1	28																																					
29	20	1	SPARE			C	0		SPARE	20	1	30																																					
31	20	1	SPARE			A	0		SPARE	20	1	32																																					
33	20	1	SPARE			B	0		SPARE	20	1	34																																					
35	20	1	SPARE			C	0		SPARE	20	1	36																																					
37	20	1	SPARE			A	0		SPARE	20	1	38																																					
39	20	1	SPARE			B	0		SPARE	20	1	40																																					
41	20	1	SPARE			C	0		SPARE	20	1	42																																					
<table border="1"> <thead> <tr> <th>PANEL</th> <th>SUB</th> <th>FEED</th> <th>TOTAL</th> <th>TOTAL DEMAND</th> <th>NOTES:</th> </tr> <tr> <th>VA</th> <th>VA</th> <th>THRU</th> <th>CONN</th> <th>VA</th> <th>AMPS</th> </tr> </thead> <tbody> <tr> <td>PHASE A</td> <td>1,992</td> <td>-</td> <td>-</td> <td>1,992</td> <td>2,455</td> </tr> <tr> <td>PHASE B</td> <td>2,782</td> <td>-</td> <td>-</td> <td>2,782</td> <td>3,429</td> </tr> <tr> <td>PHASE C</td> <td>2,960</td> <td>-</td> <td>-</td> <td>2,960</td> <td>3,648</td> </tr> <tr> <td>TOTAL</td> <td>7,734</td> <td>-</td> <td>-</td> <td>7,734</td> <td>9,533</td> </tr> </tbody> </table>										PANEL	SUB	FEED	TOTAL	TOTAL DEMAND	NOTES:	VA	VA	THRU	CONN	VA	AMPS	PHASE A	1,992	-	-	1,992	2,455	PHASE B	2,782	-	-	2,782	3,429	PHASE C	2,960	-	-	2,960	3,648	TOTAL	7,734	-	-	7,734	9,533	REVISIONS:		CNG ENGINEERING, PLLC, R3.0	
PANEL	SUB	FEED	TOTAL	TOTAL DEMAND	NOTES:																																												
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PHASE C	2,960	-	-	2,960	3,648																																												
TOTAL	7,734	-	-	7,734	9,533																																												

PANEL 'P2'																																																	
PROJECT: Fire Station no. 2		MAIN CIRCUIT BREAKER: -		ENCLOSURE: NEMA 1		0 RCPT 5 HEAT																																											
PROJECT #: 0043-11		MAIN LUGS ONLY: 150A		MOUNTING: SURFACE		1 INT LITG 6 A/C																																											
LOCATION: ELECT. RM		BUSSING: 225A		CB TYPE: BOLT-ON		2 EXT LITG 7 KITCH																																											
NOTES:		VOLTAGE: 208/120V, 3PH, 4W		PROVIDE: NEUTRAL BUS		3 EQPT 8 ELEV																																											
		INTERRUPTING: 10kAIC		GROUND BUS		4 FANS 9 EWH																																											
1	20	1	SPARE			A	0	1,800	KITCHEN GRILLE	20	1	2																																					
3	20	1	SPARE			B	5	1,200	IUH-1C	20	1	4																																					
5	20	1	SPARE			C	4	1,320	FCU-1	20	1	6																																					
7	20	1	SPARE			A	4	1,080	FCU-2	20	1	8																																					
9	20	1	FCU-5	1,320	4	B	4	1,080	FCU-3	20	1	10																																					
11	20	1	FCU-6	1,080	4	C			SPARE	20	1	12																																					
13	20	1	EF-1	120	4	A	4	240	VF-1	20	1	14																																					
15	20	1	SPARE			B	4		SPARE	20	1	16																																					
17	20	1	VF-1	120	4	C	5	1,500	FCU-4	20	1	18																																					
19	20	1	IUH-1A	120	5	A	5	1,500	EUH-1	20	2	20																																					
21	20	1	IUH-1B	120	5	B	4	1,176	MUA-1	20	1	22																																					
23	20	1	IUH-2	120	5	C			SPARE	20	1	24																																					
25	20	2	EWH-1	750	9	A	4	1,352	ERV-1	20	2	26																																					
27	20	1	SPARE	750	9	B	4	1,352	ERV-1	20	2	28																																					
29	20	1	SPARE			C	0	120	GWH-1	20	1	30																																					
31	20	1	SPARE			A	0	120	GWH-2	20	1	32																																					
33	20	1	KITCHEN DISPOSAL	600	0	B			SPARE	20	1	34																																					
35	20	2	EDH-01	1,000	3	C			SPARE	20	1	36																																					
37	20	1	SPARE	1,000	3	A			SPARE	20	1	38																																					
39	20	1	SPARE			B			SPARE	20	1	40																																					
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PANEL	SUB	FEED	TOTAL	TOTAL DEMAND	NOTES:																																												
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PANEL 'P1'												
PROJECT: Fire Station no. 2		MAIN CIRCUIT BREAKER: -		ENCLOSURE: NEMA 1		0 RCPT 5 HEAT						
PROJECT #: 0043-11		MAIN LUGS ONLY: 150A		MOUNTING: SURFACE		1 INT LITG 6 A/C						
LOCATION: ELECT. RM		BUSSING: 225A		CB TYPE: BOLT-ON		2 EXT LITG 7 KITCH						
NOTES:		VOLTAGE: 208/120V, 3PH, 4W		PROVIDE: NEUTRAL BUS		3 EQPT 8 ELEV						
		INTERRUPTING: 10kAIC		GROUND BUS		4 FANS 9 EWH						
1	20	1	ENTRY 100 RECEPTACLES	1,080	0	A	0	720	EMTS144 BAY RECEPTACLES	20	1	2
3	20	1	ROOM 4 RECEPTACLES	720	0	B	0	720	ROOM 3 RECEPTACLES	20	1	4
5	20	1	LAUNDRY RM WASHER	1,800	0	C	0	3,120	LAUNDRY RM DRYER	40	2	6
7	20	1	ROOM 6 RECEPTACLES	720	0	A	0	3,120	LAUNDRY RM DRYER	40	2	8
9	20	1	ROOM 1 RECEPTACLES	900	0	B	0	1,080	CORRIDOR C4 RECEPTACLES	20	1	10
11	20	1										

CONSTRUCTION DOCUMENTS

Revisions

Mark	Date	Description
1	5/17/2016	ADDENDUM ON 2

Date: 02/15/2016 Checked By:

Project Number: 89600 Drawn By:

Sheet Title: 1ST FLOOR SPECIAL SYSTEMS PLAN

Sheet Number:

IT401

KEYED NOTES: (THIS SHEET ONLY)

- 1 PROVIDE 1" CONDUIT FROM ROUGH OPENING TO 6" ABOVE NEAREST ACCESSIBLE CEILING. REFER TO US DIGITAL DESIGN INSTALLATION DRAWINGS FOR JUNCTION BOX ROUGH OPENING HEIGHT INSTALLATION REQUIREMENTS.
- 2 PROVIDE RECESSED 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN AT 7'6" AFF. COORDINATE LOCATION OF JUNCTION BOX WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. ORIENT MUD RING OPENING HORIZONTALLY. PROVIDE DUPLEX STAINLESS STEEL JUNCTION BOX COVERS WITH 3/4" DIAMETER HOLE CENTERED IN THE COVER WITH A HEVCO #2840 BUSHING FOR ALL JUNCTION BOXES. COORDINATE LOCATION OF SIGN REMOTE WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. EXTEND A 1" CONDUIT BETWEEN MESSAGE SIGN JUNCTION BOX AND ASSOCIATED SIGN REMOTE JUNCTION BOX.
- 3 PROVIDE 4" SQUARE BACK BOX MOUNTED AT 90° AFF. PROVIDE 1" FROM JUNCTION BOX TO MESSAGE REMOTE. PROVIDE ACCESS PANEL FOR MESSAGE REMOTE SERVICE. COORDINATE LOCATION OF MESSAGE REMOTE WITH US DIGITAL DESIGN INSTALLATION DRAWINGS.
- 4 PROVIDE 1" CONDUIT FROM MESSAGE REMOTE TO NEAREST ACCESSIBLE CEILING.
- 5 US DIGITAL DESIGN EMERGENCY CALL PUSH BUTTON. PROVIDE 1" CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
- 6 US DIGITAL DESIGN NON-EMERGENCY CALL PUSH BUTTON. PROVIDE 1" CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
- 7 PROVIDE SURFACE MOUNTED 4" SQUARE JUNCTION BOX WITH 2" MUD RING AND COVER. PROVIDE 1" CONDUIT TO MESSAGE REMOTE OR OTHER LOCATION AS INDICATED ON US DIGITAL DESIGN INSTALLATION DRAWINGS. PROVIDE A 3/4" DIAMETER HOLE CENTERED IN THE JUNCTION BOX COVER WITH A HEVCO #2840 BUSHING. MOUNT APPARATUS BAY JUNCTION BOX SPEAKERS AT 13" AFF AND OUTSIDE SPEAKER JUNCTION BOXES AT 11" AFF. EXTERIOR SPEAKER JUNCTION BOXES SHALL BE RECESSED.
- 8 INSTALL SPEAKER VOLUME CONTROL PROVISION FOR EXTERIOR SPEAKER AT 48" A.F.F. INSTALL 4" X 4" JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO SPEAKER.
- 9 PROVIDE 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN AT 9'-0" AFF TYPICAL (13' AFF FOR APPARATUS BAY). COORDINATE LOCATION OF JUNCTION BOX WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. ORIENT MUD RING OPENING HORIZONTALLY. PROVIDE 1" EMPTY CONDUIT BETWEEN THE MESSAGE REMOTE JUNCTION BOX AND EACH OF THE ASSOCIATED MESSAGE SIGN JUNCTION BOXES (MAXIMUM OF TWO) AND A 1" CONDUIT TO NEAREST INDOOR ACCESSIBLE CEILING. PROVIDE DUPLEX STAINLESS STEEL JUNCTION BOX COVERS WITH 3/4" DIAMETER HOLE CENTERED IN THE COVER WITH A HEVCO #2840 BUSHING FOR ALL JUNCTION BOXES.
- 10 PROVIDE 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN ABOVE ACCESSIBLE CEILING. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO NEAREST ACCESSIBLE CEILING AS REQUIRED. PROVIDE JUNCTION BOX AT NEAREST ACCESSIBLE CEILING LOCATION WHERE SIGN REMOTE IS INSTALLED AT HARD CEILING LOCATION AND PROVIDE ACCESS PANEL FOR SIGN REMOTE SERVICE.
- 11 CEILING SPEAKERS (HARD CEILING) - PROVIDE BOGEN RE84 CEILING SPEAKER ENCLOSURES IN ALL HARD CEILING APPLICATIONS. PROVIDE 1" EMPTY CONDUIT TO ENCLOSURE AND RUN TO NEAREST ACCESSIBLE CEILING LOCATION EQUIPMENT OR AS NOTED ON US DIGITAL DESIGN INSTALLATION DRAWINGS. CEILING SPEAKERS (SUSPENDED CEILING) - PROVIDE BOGEN TB8 AS APPROPRIATE FOR SPECIFIED SPEAKERS. PROVIDE RE84 CEILING SPEAKER ENCLOSURES OR AS NOTED BY US DIGITAL DESIGN.
- 12 FURNISH AND INSTALL AN AIRPHONE MASTER INTERCOM STATION WITH DOOR RELEASE BUTTON. WIRE INTERCOM STATION AT ENTRY GATE (SEE SITE PLAN) AND PROVIDE CONTROL WIRING TO GATE CONTROLLER TO OPEN AND CLOSE GATES. PROVIDE POWER TRANSFORMER MOUNTED CONCEALED BELOW JOKER STAND. INSTALL STATION ON FLUSH WALL BOX DIRECTED AT SITE. PROVIDE COMPLETE SUBMITTAL INCLUDING COMPLETE WIRING, ROUTING AND CONNECTIONS. INSTALL ALL WIRING IN CONDUIT. PROVIDE CONTROL RELAY AT GATE OPERATOR AS REQUIRED. EXTEND 1" CONDUIT TO 6" ABOVE NEAREST ACCESSIBLE CEILING.
- 13 DUAL BEAM PHOTOELECTRIC SENSOR EQUAL TO OPTEX AX-20N. PROVIDE REQUIRED POWER SUPPLY AND ACCESSORIES FOR A COMPLETE INSTALLATION. CONNECT TO INTRUSION ALARM BELL/CHIME. PROVIDE WITH OPTEX TC-100 WIRELESS TRANSMITTER.
- 14 4"x4"x4" FLUSH JUNCTION BOX WITH SINGLE GANG PLASTER RING MOUNTED ABOVE COUNTER WITH FINISHED COVERPLATE. ROUTE 2" CONDUIT TO ACCESSIBLE CEILING.
- 15 PROVIDE 4" SQUARE RECESSED WALL JUNCTION BOX WITH 1" C. STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING FOR NOTIFICATION CONTROLLER. COORDINATE MOUNTING HEIGHT WITH NOTIFICATION SYSTEMS MANUFACTURER PRIOR TO ROUGH-IN.
- 16 REMOTE GENERATOR STATUS ANNUNCIATOR. RECESSED MOUNTED. PROVIDE 1" CONDUIT TO GENERATOR.
- 17 PROVIDE TWO 4" CONDUITS SLEEVES FOR COMMUNICATIONS CABLING.
- 18 PROVIDE ONE 4" CONDUIT SLEEVES FOR CABLE TV CABLING.
- 19 PROVIDE ONE 4" CONDUIT SLEEVES FOR ALERTING SYSTEM CABLING.
- 20 NOT USED
- 21 EXTEND CONDUIT TO HIGHEST POINT OF BUILDING FACIA AND PROVIDE A 8"x8" NEMA 3R JUNCTION BOX WITH COVER PLATE FOR CABLE INSTALLATION OF ANTENNA CABLE.
- 22 INTRUSION ALARM BELL/CHIME. PROVIDE EQUAL TO OPTEX RC-20U. PROVIDE 120V POWER RECEPTACLE FOR AC ADAPTOR.
- 23 ALERTING SYSTEM VOLUME CONTROL PUSHBUTTON. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. PUSH BUTTON AND WIRING TO BE PROVIDED AND INSTALLED BY OWNER.
- 24 PROVIDE TWO NETWORK DROPS TO FACP.
- 25 4"x4"x4" FLUSH JUNCTION BOX WITH COVERPLATE BELOW COUNTER. TERMINATE 3" ANTENNA CONDUIT IN JUNCTION BOX.
- 26 PROVIDE TWO DOUBLE-GANG WITH AV-IN WALL FACEPLATE EQUAL TO HUBBELL NO. VSA2W WITHIN 2" CONDUIT BETWEEN BOXES. INSTALL BOXES ADJACENT TO EACH TV OUTLET.
- 27 KEEP OUTLET WITHIN 12" TO 18" OF THE CORNER WALL AS TO CONCEAL BEHIND TV.

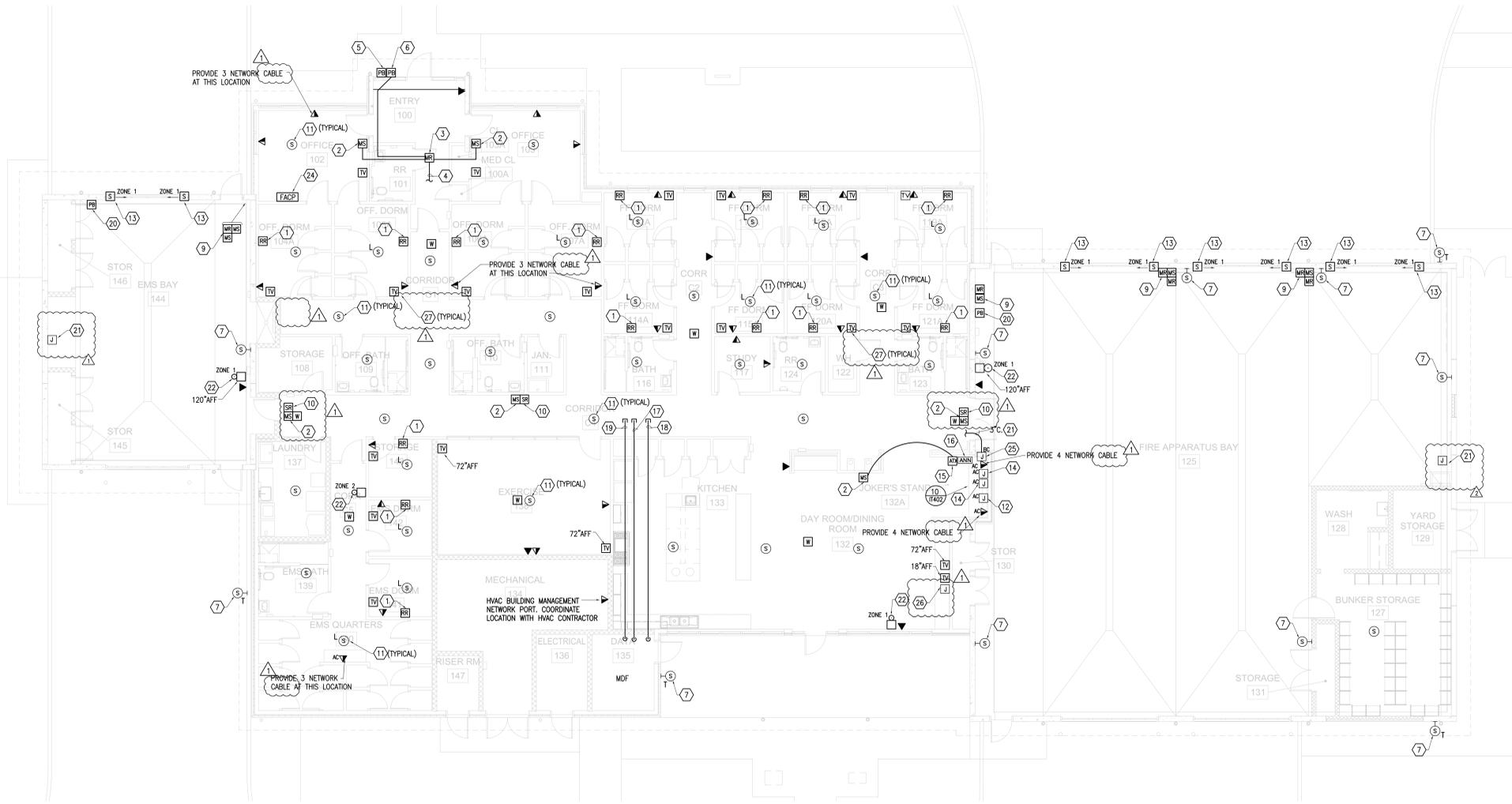
GENERAL NOTES: (THIS SHEET ONLY)

1. CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER.
2. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
3. REFER TO KEYED NOTES FOR ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS.
4. COORDINATE ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS WITH US DIGITAL DESIGN (USDD) INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
5. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULLSTRING AND PLASTIC BUSHINGS AT EACH END.
6. FIRE ALARM DEVICES SHOWN MOUNTED ON CONCRETE TILT WALLS SHALL BE COORDINATED WITH ARCHITECT ON WHETHER DEVICES SHALL BE FLUSH MOUNTED OR SURFACE MOUNTED.
7. ALL COMMUNICATIONS JUNCTION BOXES SHALL BE AT MINIMUM 4 1/16" X 4 1/16" X 2 1/8" SIZE
8. ALL COMMUNICATIONS CABLING REQUIRED FOR USDD SYSTEM TO BE PROVIDED BY USDD SYSTEM INSTALLER UNDER THIS CONTRACT.
9. REFER TO USDD SYSTEM INSTALLATION DRAWINGS FOR FINAL CONDUIT AND CABLING REQUIREMENTS. COMPLETE USDD PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED. CONTRACTOR TO INSTALL ALL NECESSARY RACEWAYS AND BACK BOXES REQUIRED FOR COMPLETE INSTALLATION UNDER BASE CONTRACT. RACEWAYS AND BOXES SERVING THE US DIGITAL DESIGN (USDD) PHOENIX ALERTING SYSTEM SHOWN ON THIS DRAWING ARE SHOWN FOR DESIGN INTENT. CONFIRM AND COORDINATE LOCATIONS AND REQUIREMENTS WITH VENDOR (USDD) PRIOR TO ROUGH-IN.
10. UNLESS OTHERWISE NOTED, EXTEND ALL DATA OUTLET CONDUITS FROM JOKER'S STAND TO NEAREST ACCESSIBLE CEILING.
11. ALL NETWORK CABLING IS TO BE INSTALLED AS PART OF THIS CONTRACT.

COMMUNICATIONS LEGEND

SR	PHOENIX G2 SIGN REMOTE (USDD)
RR	PHOENIX G2 ROOM REMOTE (USDD)
BR	BETA BRITE (USDD)
MS	PHOENIX G2 MESSAGE SIGN (USDD)
MR	PHOENIX G2 MESSAGE REMOTE (USDD)
PB	PUSH BUTTON
AT	PHOENIX G2 ATX STATION CONTROLLER (USDD)
S	PHOENIX ALERTING SYSTEM SPEAKER (USDD) RECESSED MOUNT
S-L	PHOENIX ALERTING SYSTEM SPEAKER (USDD) WITH LED LIGHT - SURFACE MOUNT
S-S	PHOENIX ALERTING SYSTEM SPEAKER (USDD) SURFACE MOUNT
TV	TELEVISION OUTLET - PROVIDE RG6 CABLE FROM JUNCTION BOX TO MDF ROOM. TERMINATE BOTH ENDS AND PROVIDE FINISHED COVER PLATE. INSTALL AT 84" LIND. REFER TO DETAIL 6, SHEET IT403 FOR ROUGH-IN REQUIREMENTS.
ND	NETWORK DROP LOCATION. PROVIDE TWO TERMINATED NETWORK CABLES PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 5, SHEET IT402 FOR ROUGH-IN REQUIREMENTS.
W	WALL MOUNTED TELEPHONE DROP LOCATION. PROVIDE ONE TERMINATED NETWORK CABLE PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 7 & 8, SHEET IT402 FOR ROUGH-IN AND DETAIL 5, SHEET IT403 FOR ROUGH-IN REQUIREMENTS.
W	WIRELESS ACCESS POINT. PROVIDE ONE TERMINATED NETWORK CABLE PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 7 & 8, SHEET IT402 FOR ROUGH-IN AND DETAIL 5, SHEET IT403 FOR ROUGH-IN REQUIREMENTS.

COMPLETE PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED.



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

CONSTRUCTION DOCUMENTS

Mark	Date	Description
1	5/17/2016	ADDENDUM ON 2

Date	Checked By
02/15/2016	DWS
Project Number	Drawn By
89600	DG

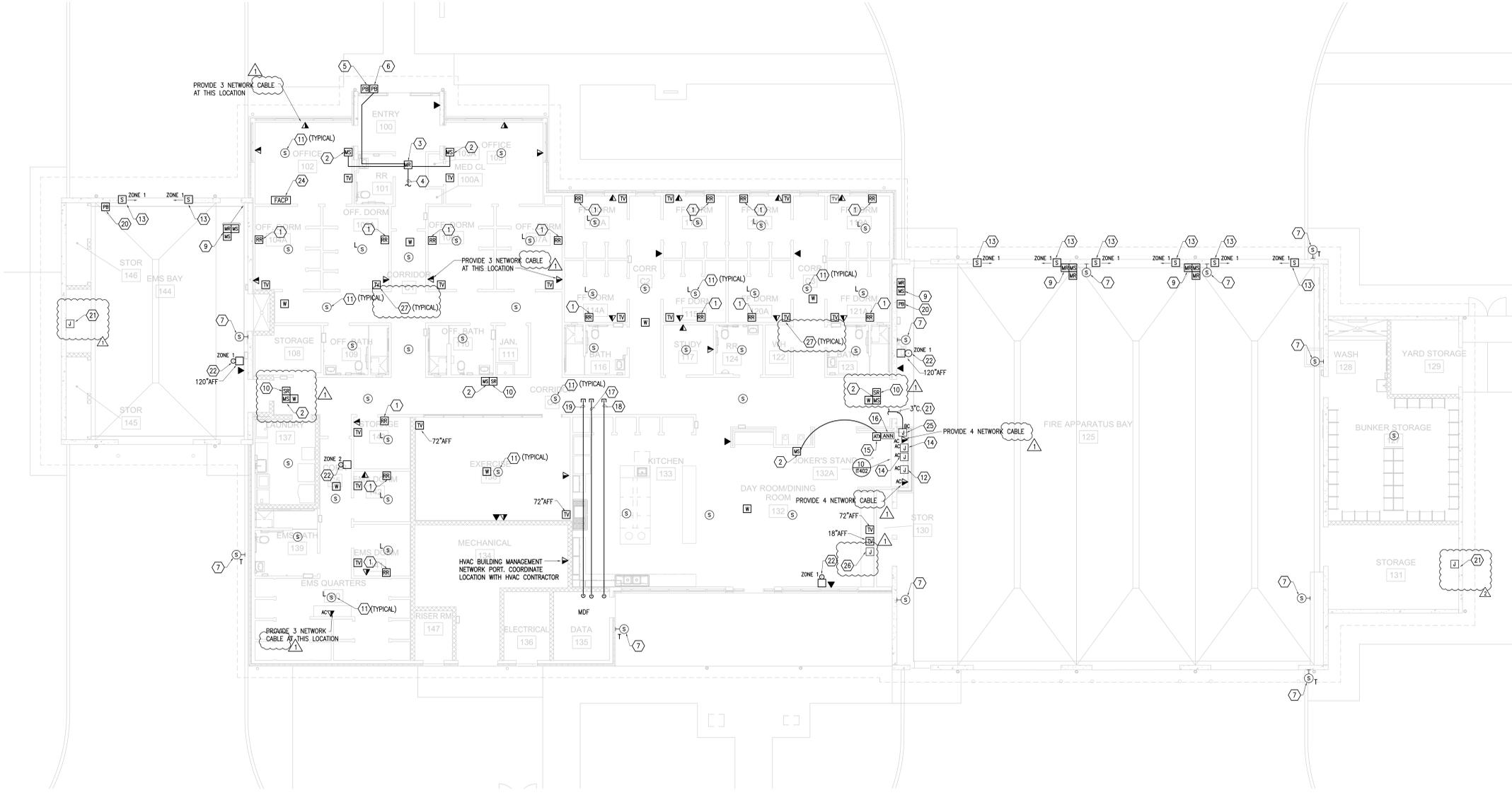
Sheet Title
FIRST FLOOR SPECIAL SYSTEMS PLAN - ALTERNATE

Sheet Number

IT401A

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE 1" CONDUIT FROM ROUGH OPENING TO 6" ABOVE NEAREST ACCESSIBLE CEILING. REFER TO US DIGITAL DESIGN INSTALLATION DRAWINGS FOR JUNCTION BOX ROUGH OPENING HEIGHT INSTALLATION REQUIREMENTS.
2. PROVIDE RECESSED 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN AT 7'6" AFF. COORDINATE LOCATION OF JUNCTION BOX WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. ORIENT MUD RING OPENING HORIZONTALLY. PROVIDE DUPLEX STAINLESS STEEL JUNCTION BOX COVERS WITH 3/4" DIAMETER HOLE CENTERED IN THE COVER WITH A HEYCO #2840 BUSHING FOR ALL JUNCTION BOXES. COORDINATE LOCATION OF SIGN REMOTE WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. EXTEND A 1" CONDUIT BETWEEN MESSAGE SIGN JUNCTION BOX AND ASSOCIATED SIGN REMOTE JUNCTION BOX.
3. PROVIDE 4" SQUARE BACK BOX MOUNTED AT 80" AFF. PROVIDE 1" FROM JUNCTION BOX TO MESSAGE REMOTE. PROVIDE ACCESS PANEL FOR MESSAGE REMOTE SERVICE. COORDINATE LOCATION OF MESSAGE REMOTE WITH US DIGITAL DESIGN INSTALLATION DRAWINGS.
4. PROVIDE 1" CONDUIT FROM MESSAGE REMOTE TO NEAREST ACCESSIBLE CEILING.
5. US DIGITAL DESIGN EMERGENCY CALL PUSH BUTTON. PROVIDE 1" CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
6. US DIGITAL DESIGN NON-EMERGENCY CALL PUSH BUTTON. PROVIDE 1" CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
7. PROVIDE SURFACE MOUNTED 4" SQUARE JUNCTION BOX WITH 2" MUD RING AND COVER. PROVIDE 1" CONDUIT TO MESSAGE REMOTE OR OTHER LOCATION AS INDICATED ON US DIGITAL DESIGN INSTALLATION DRAWINGS. PROVIDE A 3/4" DIAMETER HOLE CENTERED IN THE JUNCTION BOX COVER WITH A HEYCO #2840 BUSHING. MOUNT APPARATUS BAY JUNCTION BOX SPEAKERS AT 13' AFF AND OUTSIDE SPEAKER JUNCTION BOXES AT 11' AFF. EXTERIOR SPEAKER JUNCTION BOXES SHALL BE RECESSED.
8. INSTALL SPEAKER VOLUME CONTROL. PROVIDE FOR EXTERIOR SPEAKER AT 48" AFF. INSTALL 4" X 4" JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO SPEAKER.
9. PROVIDE 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN AT 9'-0" AFF TYPICAL (13' AFF FOR APPARATUS BAY). COORDINATE LOCATION OF JUNCTION BOX WITH US DIGITAL DESIGN INSTALLATION DRAWINGS. ORIENT MUD RING OPENING HORIZONTALLY. PROVIDE 1" EMPTY CONDUIT BETWEEN THE MESSAGE REMOTE JUNCTION BOX AND EACH OF THE ASSOCIATED MESSAGE SIGN JUNCTION BOXES (MAXIMUM OF TWO) AND A 1" CONDUIT TO NEAREST INDOOR ACCESSIBLE CEILING. PROVIDE DUPLEX STAINLESS STEEL JUNCTION BOX COVERS WITH 3/4" DIAMETER HOLE CENTERED IN THE COVER WITH A HEYCO #2840 BUSHING FOR ALL JUNCTION BOXES.
10. PROVIDE 4" SQUARE METAL JUNCTION BOX WITH DUPLEX MUD RING AS INDICATED FOR EACH ASSOCIATED MESSAGE SIGN AT 9'-0" AFF TYPICAL. PROVIDE 1" EMPTY CONDUIT FROM JUNCTION BOX TO NEAREST ACCESSIBLE CEILING AS REQUIRED. PROVIDE JUNCTION BOX AT NEAREST ACCESSIBLE CEILING LOCATION WHERE SIGN REMOTE IS INSTALLED AT HARD CEILING LOCATION AND PROVIDE ACCESS PANEL FOR SIGN REMOTE SERVICE.
11. CEILING SPEAKERS (HARD CEILING) - PROVIDE BOSEN RE84 CEILING SPEAKER ENCLOSURES IN ALL HARD CEILING APPLICATIONS. PROVIDE 1" EMPTY CONDUIT TO ENCLOSURE AND RUN TO NEAREST ACCESSIBLE CEILING LOCATION EQUIPMENT OR AS NOTED ON US DIGITAL DESIGN INSTALLATION DRAWINGS.
 CEILING SPEAKERS (SUSPENDED CEILING) - PROVIDE BOSEN T88 AS APPROPRIATE FOR SPECIFIED SPEAKERS. PROVIDE REAR CEILING SPEAKER ENCLOSURES OR AS NOTED BY US DIGITAL DESIGN.
12. FURNISH AND INSTALL AN ALPHON MASTER INTERCOM STATION WITH DOOR RELEASE BUTTON. WIRE INTERCOM STATION AT ENTRY GATE (SEE SITE PLAN) AND PROVIDE CONTROL WIRING TO GATE CONTROLLER TO OPEN AND CLOSE GATES. PROVIDE POWER TRANSFORMER MOUNTED CONCEALED BELOW JOKER STAND. INSTALL STATION ON FLUSH WALL BOX DIRECTED AT SITE. PROVIDE COMPLETE SUBMITTAL INCLUDING COMPLETE WIRING, ROUTING AND CONNECTIONS. INSTALL ALL WIRING IN CONDUIT. PROVIDE CONTROL RELAY AT GATE OPERATOR AS REQUIRED. EXTEND 1" CONDUIT TO 6" ABOVE NEAREST ACCESSIBLE CEILING.
13. DUAL BEAM PHOTOELECTRIC SENSOR EQUAL TO OPTEX AX-70N. PROVIDE REQUIRED POWER SUPPLY AND ACCESSORIES FOR A COMPLETE INSTALLATION. CONNECT TO INTRUSION ALARM BELL/CHIME. PROVIDE WITH OPTEX TC-10U WIRELESS TRANSMITTER.
14. 4"x4"x4" FLUSH JUNCTION BOX WITH SINGLE GANG PLASTER RING MOUNTED ABOVE COUNTER WITH FINISHED COVERPLATE. ROUTE 2" CONDUIT TO ACCESSIBLE CEILING.
15. PROVIDE 4" SQUARE RECESSED WALL JUNCTION BOX WITH 1" C. STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING FOR NOTIFICATION CONTROLLER. COORDINATE MOUNTING HEIGHT WITH NOTIFICATION SYSTEMS MANUFACTURER PRIOR TO ROUGH-IN.
16. REMOTE GENERATOR STATUS ANNUNCIATOR. RECESSED MOUNTED. PROVIDE 1" CONDUIT TO GENERATOR.
17. PROVIDE TWO 4" CONDUITS SLEEVES FOR COMMUNICATIONS CABLING.
18. PROVIDE ONE 4" CONDUIT SLEEVES FOR CABLE TV CABLING.
19. PROVIDE ONE 4" CONDUIT SLEEVES FOR ALERTING SYSTEM CABLING.
20. NOT USED
21. EXTEND CONDUIT TO HIGHEST POINT OF BUILDING FACIA AND PROVIDE A 8"x8" NEMA 3R JUNCTION BOX WITH COVER PLATE FOR CABLE INSTALLATION OF ANTENNA CABLE.
22. INTRUSION ALARM BELL/CHIME. PROVIDE EQUAL TO OPTEX RC-20U. PROVIDE 120V POWER RECEPTACLE FOR AC ADAPTOR.
23. ALERTING SYSTEM VOLUME CONTROL. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. PUSH BUTTON AND WIRING TO BE PROVIDED AND INSTALLED BY OWNER.
24. PROVIDE TWO NETWORK DROPS TO FACP.
25. 4"x4"x4" FLUSH JUNCTION BOX WITH COVERPLATE BELOW COUNTER. TERMINATE 3" ANTENNA CONDUIT IN JUNCTION BOX.
26. PROVIDE TWO DOUBLE-GANG WITH AN-IN WALL FACEPLATE EQUAL TO HUBBELL NO. VS24ZW WITHIN 2" CONDUIT BETWEEN BOXES. INSTALL BOXES ADJACENT TO EACH TV OUTLET.
27. KEEP OUTLET WITHIN 12" TO 18" OF THE CORNER WALL AS TO CONCEAL BEHIND TV.



1 FIRST FLOOR PLAN - IT - ALTERNATE
 1/4" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY)

1. CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER.
2. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
3. REFER TO KEYED NOTES FOR ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS.
4. COORDINATE ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS WITH US DIGITAL DESIGN (USDD) INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
5. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULLSTRING AND PLASTIC BUSHINGS AT EACH END.
6. FIRE ALARM DEVICES SHOWN MOUNTED ON CONCRETE TILT WALLS SHALL BE COORDINATED WITH ARCHITECT ON WHETHER DEVICES SHALL BE FLUSH MOUNTED OR SURFACE MOUNTED.
7. ALL COMMUNICATIONS JUNCTION BOXES SHALL BE AT MINIMUM 4 1/16" X 4 1/16" X 2 1/8" SIZE.
8. ALL COMMUNICATIONS CABLING REQUIRED FOR USDD SYSTEM TO BE PROVIDED BY USDD SYSTEM INSTALLER UNDER THIS CONTRACT.
9. REFER TO USDD SYSTEM INSTALLATION DRAWINGS FOR FINAL CONDUIT AND CABLING REQUIREMENTS. COMPLETE USDD PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED. CONTRACTOR TO INSTALL ALL NECESSARY RACEWAYS AND BACK BOXES REQUIRED FOR COMPLETE INSTALLATION UNDER BASE CONTRACT. RACEWAYS AND BOXES SERVING THE US DIGITAL DESIGN (USDD) PHOENIX ALERTING SYSTEM SHOWN ON THIS DRAWING ARE SHOWN FOR DESIGN INTENT. CONFIRM AND COORDINATE LOCATIONS AND REQUIREMENTS WITH VENDOR (USDD) PRIOR TO ROUGH-IN.
10. UNLESS OTHERWISE NOTED, EXTEND ALL DATA OUTLET CONDUITS FROM JOKER'S STAND TO NEAREST ACCESSIBLE CEILING.
11. ALL NETWORK CABLING IS TO BE INSTALLED AS PART OF THIS CONTRACT.

COMMUNICATIONS LEGEND

Ⓜ	PHOENIX G2 SIGN REMOTE (USDD)
Ⓜ	PHOENIX G2 ROOM REMOTE (USDD)
Ⓜ	BETA BRITE (USDD)
Ⓜ	PHOENIX G2 MESSAGE SIGN (USDD)
Ⓜ	PHOENIX G2 MESSAGE REMOTE (USDD)
Ⓜ	PUSH BUTTON
Ⓜ	PHOENIX G2 ATX STATION CONTROLLER (USDD)
Ⓜ	PHOENIX ALERTING SYSTEM SPEAKER (USDD) RECESSED MOUNT
Ⓜ	PHOENIX ALERTING SYSTEM SPEAKER (USDD) WITH LED LIGHT - SURFACE MOUNT
Ⓜ	PHOENIX ALERTING SYSTEM SPEAKER (USDD) SURFACE MOUNT
Ⓜ	TELEVISION OUTLET - PROVIDE RG6 CABLE FROM JUNCTION BOX TO MDF ROOM. TERMINATE BOTH ENDS AND PROVIDE FINISHED COVER PLATE. INSTALL AT 84" U.A.O. REFER TO DETAIL 6, SHEET #4.3 FOR ROUGH-IN REQUIREMENTS.
Ⓜ	NETWORK DROP LOCATION. PROVIDE TWO TERMINATED NETWORK CABLES PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 5, SHEET #402 FOR ROUGH-IN REQUIREMENTS.
Ⓜ	WALL MOUNTED TELEPHONE DROP LOCATION. PROVIDE ONE TERMINATED NETWORK CABLE PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 5, SHEET #402 FOR ROUGH-IN AND DETAIL 5, SHEET #403 FOR ROUGH-IN REQUIREMENTS.
Ⓜ	WIRELESS ACCESS POINT. PROVIDE ONE TERMINATED NETWORK CABLE PER DROP LOCATION. EXTEND TO PATCH PANEL AT MDF NETWORK RACK. REFER TO DETAIL 7 & 8, SHEET #402 FOR ROUGH-IN AND DETAIL 5, SHEET #403 FOR ROUGH-IN REQUIREMENTS.

COMPLETE PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED.



CITY OF SAN ANTONIO
COSA FIRE STATION NO. 2
 CONSTRUCTION DOCUMENTS
 W. VILLARET BOULEVARD & S. ZARZAMORA STREET
 SAN ANTONIO, TEXAS 78224

Architects
FORD POWELL & CARSON
 ARCHITECTS & PLANNERS, INC.
 Architecture
 Planning
 Preservation
 Interior Design
 1118 East Commerce Street
 San Antonio, Texas 78205
 (210) 224-1216

CONSTRUCTION DOCUMENTS

Mark	Date	Description
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△	5/17/2016	ADDENDUM NO. 2
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Date	Checked By
02/15/2016	SMM

Project Number	Drawn By
89600	MF

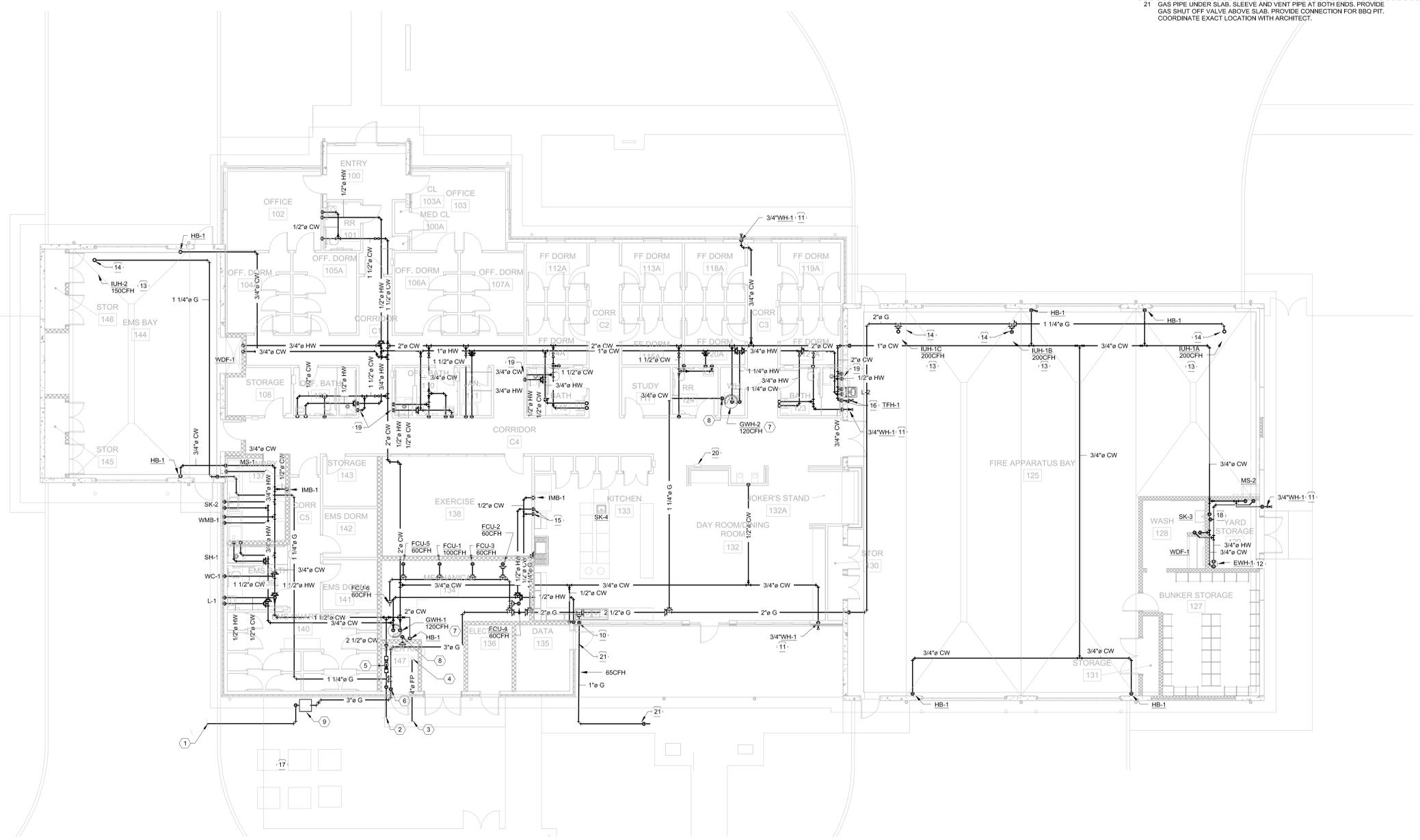
Sheet Title
 DOMESTIC WATER & GAS PLUMBING -
 BASE FLOOR PLAN

Sheet Number

P102

PLUMBING KEYED NOTES :

1. GAS SERVICE. REFER TO CIVIL DRAWINGS.
2. 2-1/2" DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS.
3. 4" FIRE PROTECTION SERVICE. REFER TO CIVIL DRAWINGS.
4. 4" FIRE PROTECTION RISER FROM BELOW. REFER TO DETAIL.
5. 2-1/2" REDUCE PRESSURE ZONE BACKFLOW PREVENTER.
6. 2-1/2" GAS PIPE RISE TO OVERHEAD.
7. GAS WATER HEATER. REFER TO DETAIL.
8. 1" GAS PIPE DROP TO GAS WATER HEATER.
9. GAS METER/REGULATOR. REDUCE GAS PRESSURE TO 7-11" W.C. AT 1,605 CFH TOTAL DEMAND AT 250' RUN.
10. 3/4" GAS PIPE DROP IN WALL FOR OUTDOOR GRILL GAS CONNECTION.
11. 3/4" CW DROP IN WALL AND OFFSET TO WALL HYDRANT.
12. ELECTRIC WATER HEATER. REFER TO DETAIL.
13. INFRARED UNIT HEATER. REFER TO HVAC DRAWINGS.
14. GAS PIPE DROP TO INFRARED UNIT HEATER. FURNISH AND INSTALL GAS VALVE, UNION AND DIRTLEG PRIOR CONNECTION TO UNIT HEATER. REFER TO FLOOR PLAN FOR PIPE SIZE.
15. 1/2" CW AND 1/2" HW DROP IN WALL TO BELOW FLOOR AND ROUTE TO ISLAND SINK.
16. 2" CW DROP IN WALL AND OFFSET TO TRUCK FILL HYDRANT.
17. HVAC EQUIPMENT
18. 3/4" CW AND 3/4" HW DROP IN WALL TO SINK FAUCET.
19. FURNISH AND INSTALL 12"x12" ACCESS PANEL AT SHOWER MIXING VALVE.
20. PROVIDE EMERGENCY GAS SHUT-OFF PANEL WITH ELECTRONIC GAS VALVES FOR THE OUTDOOR GAS GRILL AND FOR THE KITCHEN STOVE. ASCO RELAY PANEL MODEL 108D90C.
21. GAS PIPE UNDER SLAB. SLEEVE AND VENT PIPE AT BOTH ENDS. PROVIDE GAS SHUT OFF VALVE ABOVE SLAB. PROVIDE CONNECTION FOR BBQ PIT. COORDINATE EXACT LOCATION WITH ARCHITECT.





PLUMBING KEYED NOTES :

1. GAS SERVICE. REFER TO CIVIL DRAWINGS.
2. 2-1/2" DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS.
3. 4" FIRE PROTECTION SERVICE. REFER TO CIVIL DRAWINGS.
4. 4" FIRE PROTECTION RISER FROM BELOW. REFER TO DETAIL.
5. 2-1/2" REDUCE PRESSURE ZONE BACKFLOW PREVENTER.
6. 2-1/2" GAS PIPE RISE TO OVERHEAD.
7. GAS WATER HEATER. REFER TO DETAIL.
8. 1" GAS PIPE DROP TO GAS WATER HEATER.
9. GAS METER/REGULATOR. REDUCE GAS PRESSURE TO 7-11" W.C. AT 1,605 CFH TOTAL DEMAND AT 250' RUN.
10. 3/4" GAS PIPE DROP IN WALL FOR OUTDOOR GRILL GAS CONNECTION.
11. 3/4" CW DROP IN WALL AND OFFSET TO WALL HYDRANT.
12. ELECTRIC WATER HEATER. REFER TO DETAIL.
13. INFRARED UNIT HEATER. REFER TO HVAC DRAWINGS.
14. GAS PIPE DROP TO INFRARED UNIT HEATER. FURNISH AND INSTALL GAS VALVE, UNION AND DIRTLEG PRIOR CONNECTION TO UNIT HEATER. REFER TO FLOOR PLAN FOR PIPE SIZE.
15. 1/2" CW AND 1/2" HW DROP IN WALL TO BELOW FLOOR AND ROUTE TO ISLAND SINK.
16. 2" CW DROP IN WALL AND OFFSET TO TRUCK FILL HYDRANT.
17. HVAC EQUIPMENT
18. 3/4" CW AND 3/4" HW DROP IN WALL TO SINK FAUCET.
19. FURNISH AND INSTALL 12"x12" ACCESS PANEL AT SHOWER MIXING VALVE.
20. PROVIDE EMERGENCY GAS SHUT-OFF PANEL WITH ELECTRONIC GAS VALVES FOR THE OUTDOOR GAS GRILL AND FOR THE KITCHEN STOVE. ASCO RELAY PANEL MODEL 10890C.
21. GAS PIPE UNDER SLAB. SLEEVE AND VENT PIPE AT BOTH ENDS. PROVIDE GAS SHUT OFF VALVE ABOVE SLAB. PROVIDE CONNECTION FOR BBO PIT. COORDINATE EXACT LOCATION WITH ARCHITECT.

CITY OF SAN ANTONIO
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 CONSTRUCTION DOCUMENTS
 W. VILLARET BOULEVARD & S. ZARZAMORA STREET
 SAN ANTONIO, TEXAS 78224

Architects
FORD POWELL & CARSON
 ARCHITECTS & PLANNERS, INC.

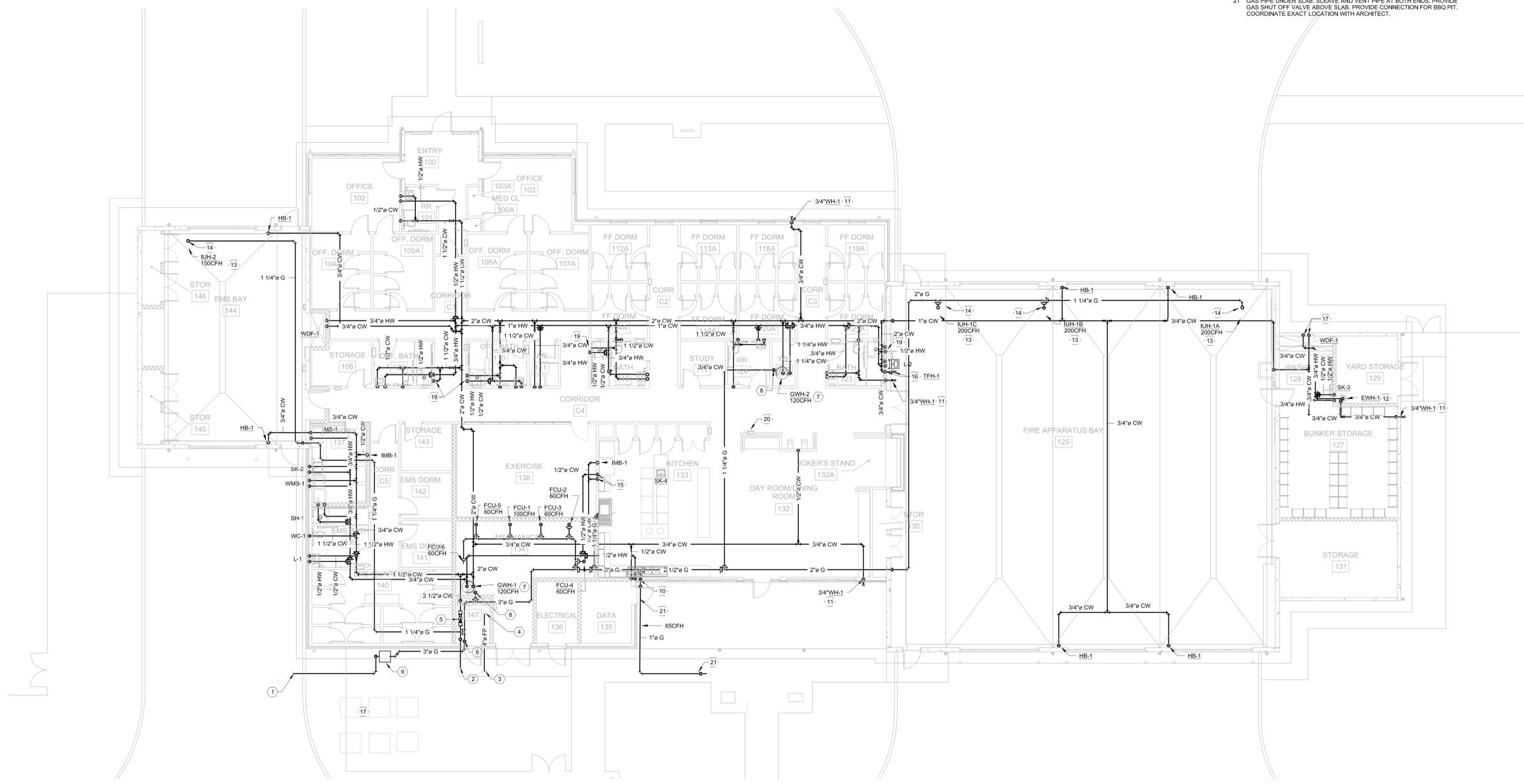
Architecture
 Planning
 Preservation
 Interior Design
 1119 East Commerce Street
 San Antonio, Texas 78205
 (210) 224-1236

CONSTRUCTION DOCUMENTS

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Sheet Title	
DOMESTIC WATER & GAS PLUMBING - ALTERNATE FLOOR PLAN	
Sheet Number	

P102A



1 DOMESTIC WATER & GAS PLUMBING - ALTERNATE FLOOR PLAN
 1/8" = 1'-0"



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 CONSTRUCTION DOCUMENTS
 W. VILLARET BOULEVARD & S. ZARZAMORA STREET
 SAN ANTONIO, TEXAS 78224

Architects
FORD POWELL & CARSON
 ARCHITECTS & PLANNERS, INC.

Architecture
 Planning
 Preservation
 Interior Design
 1108 East Commerce Street
 San Antonio, Texas 78205
 (210) 224-1000

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Sheet Title	PLUMBING SCHEDULES AND DETAILS
Sheet Number	P202

GENERAL FIRE PROTECTION NOTE:
 THE CONTRACTOR SHALL PROVIDE A NEW WET PIPE SPRINKLER SYSTEM (AS INDICATED ON PLANS) IN ACCORDANCE WITH NFPA 13 & LATEST ADOPTED LOCAL CODES.

COORDINATE THE WORK WITH ALL ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURE DISCIPLINES TO ENSURE THAT A COMPLETELY COORDINATED INSTALLATION IS ACHIEVED. THESE PLANS SERVE AS A GENERAL GUIDE ONLY AND DO NOT REPRESENT ACTUAL FIRE PROTECTION CONSTRUCTION.

BASED ON THE CODES MENTIONED ABOVE THE CONTRACTOR SHALL PROVIDE PIPING & HEADS AS REQUIRED FOR LIGHT HAZARD AREAS, UNLESS NOTED OTHERWISE.

THE FOLLOWING AREAS SHALL RECEIVE ORDINARY HAZARD GROUP 1 COVERAGE HEADS:
 1. MECHANICAL AND PUMP ROOMS
 2. STORAGE ROOMS
 3. JANITOR CLOSETS

PIPE MATERIAL LIST	
DOMESTIC WATER PIPING	
ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE 95% LEAD FREE, ASTM B 32. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.	
BELOW SLAB WITHIN 5'-0" OF THE BUILDING SHALL BE ASTM B 88 TYPE K COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. ALL JOINTS SHALL BE BRAZED. ALL DOMESTIC WATER PIPING ABOVE CRAWL SPACE SHALL USE 1/2" INSULATION.	
SANITARY SOIL WASTE AND VENT AND PIPING	
ABOVE FLOOR INSIDE BUILDING SHALL BE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75.	
BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS, CONFORMING TO ASTM D-1784-82 WITH SOLVENT CEMENTED JOINTS.	
NATURAL GAS	
PIPE SHALL BE THREADED SCHEDULE 40 BLACK STEEL PIPE WITH STEEL FITTINGS. PROVIDE DIRT LEGS WHERE REQUIRED. MAT'L SHALL MEET OR EXCEED ASME B36.10M; ASTM A53 OR ASTM A106.	
UNDERGROUND PIPING WHERE INSTALLED UNDER BUILDING STRUCTURE SHALL BE IN A VENTED CONDUIT WHERE OUTSIDE THE BUILDING ENVELOPE. COORDINATE WITH GAS UTILITY COMPANY & CITY OF BULVERDE & CIVIL DWGS.	

PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK	FIXTURE	CW	HW	SS	V	GW	GV
WC-1	WATER CLOSET	1"	-	4"	2"	-	-
UR-1	URINAL	3/4"	-	2"	2"	-	-
L-1	LAVATORY	1/2"	1/2"	2"	2"	-	-
L-2	SS LAVATORY	1/2"	1/2"	-	-	2"	2"
L-3	LAVATORY	1/2"	1/2"	2"	2"	-	-
SK-1	DOUBLE SINK	1/2"	1/2"	2"	2"	-	-
SK-2	SINGLE SINK	1/2"	1/2"	2"	2"	-	-
SK-3	SKULLERY SINK	1/2"	1/2"	-	-	2"	2"
SK-4	SINGLE SINK	1/2"	1/2"	2"	2"	-	-
EDF-1	DRINKING FOUNTAIN	1/2"	-	2"	2"	-	-
SH-1	SHOWER	1/2"	1/2"	3"	2"	-	-
MS-1	MOP SINK	3/4"	3/4"	-	-	-	-
MS-2	MOP SINK	3/4"	3/4"	-	-	3"	2"
WDF-1	WASH DOWN FAUCET	3/4"	3/4"	-	-	-	2"
FD-1	FLOOR DRAIN	-	-	3"	2"	-	-
WMB-1	WASH MACHINE BOX	1/2"	1/2"	2"	2"	-	-
WH-1	WALL HYDRANT	3/4"	-	-	-	-	-
HB-1	HOSE BIBB	3/4"	-	-	-	-	-
TRH-1	TRUCK FILL HYDRANT	1-1/2"	-	-	-	-	-
FS-1	FLOOR SINK	-	-	3"	2"	-	-
TD-1	TRENCH DRAIN	-	-	-	-	3"	2"
IMB-1	ICE MAKER VALVE BOX	1/2"	-	-	-	-	-

PLUMBING FIXTURE SCHEDULE		
TAG	DESCRIPTION	MANUFACTURER AND CATALOG NO.
WC-1 WATER CLOSET A.D.A. COMPLIANT	FLOOR MOUNTED WHITE VITREOUS CHINA ELONGATED BOWL, 1.6 GALLON PER FLUSH. FLUSH VALVE, CHURCH NO. 9500C WHITE OPEN FRONT SEAT LESS COVER. FLUSH VALVE SHALL BE ROUGHED-IN TO PROVIDE FLUSH HANDLE ON ACCESS SIDE OF TOILET. BOLT CAPS.	AMERICAN STANDARD "MADARA 17" HIGH" 3043.102 SLOAN ROYAL NO. 111
U-1 URINAL A.D.A. COMPLIANT	WALL MOUNTED WHITE VITREOUS CHINA, ELONGATED FRONT RIM, MINIMUM 14" FROM WALL, SIPHON JET, 3/4" TOP SPUD, LOW WATER CONSUMPTION, ONE GALLON PER FLUSH, 17" OMM MAXIMUM 17" ABOVE FLOOR.	AMERICAN STANDARD "WASHBROOK" 6501.010 SLOAN ROYAL 198-B FLUSH VALVE
L-1 LAVATORY A.D.A. COMPLIANT	WALL MOUNTED VITREOUS CHINA, NOMINAL 20" X 18" FRONT OVERFLOW, CONCEALED ARM CARRIER, 4" WRIST BLADE HANDLES, 1-1/4" P.O. STRAINER DRAIN, CHROME PLATED BRASS SPOUT, 1/4" TURN CARTRIDGES, MCGUIRE 8872, 17-GA. P-TRAP, ESCUTCHEON, CHICAGO NO. 1009 LAVATORY SUPPLIES WITH LOOSE KEY STOPS, INSULATE DRAIN TAILPIECE, P-TRAP AND SUPPLIES WITH TRUEBERO "HAND-HAY-GUARD", MCGUIRE "PROWRAP" OR BRACER "TRAP WRAP".	AMERICAN STANDARD "LUCERNE" 0356.015 CHICAGO FAUCET NO. 404A-317-327A
L-2 SS LAVATORY	SINGLE COMPARTMENT WITH FAUCET DECK, NOMINAL OVERALL SIZE 17-1/4" X 17-1/4" X 5" DEEP. TYPE 304 STAINLESS STEEL WALL HUNG, 4" WRIST BLADE HANDLES AND CHROME PLATED BRASS FLOOR MOUNTED SELF-CLOSING MIXING VALVE, CHROME PLATED BRASS GOOSENECK, 1/4" TURN CARTRIDGES, MODIFY GOOSENECK SPOUT WATER INLET CONNECTION TO ALLOW WATER FLOW FROM EITHER FAUCET OR FOOT PEDALS, ELKAY NO. LK-18 CHROME PLATED BRASS PERFORATED GRID STRAINER DRAIN OUTLET WITH TAILPIECE, MCGUIRE 8912, 17 GA. P-TRAP, CHICAGO NO. 1006 LOOSE KEY SUPPLIES WITH RISERS AND ESCUTCHEON.	ADVANCE TABCO NO.7-PS-20 WITHOUT FAUCET NO. X-580MIT CHICAGO FAUCET NO. 786-TW-327A
SK-1 SINK A.D.A. COMPLIANT	DOUBLE COMPARTMENT WITH FAUCET DECK, MODIFIED DEPTH MEETING A.D.A., NOMINAL OVERALL SIZE 66" X 22" X 7.75" DEEP, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, FULLY UNDERCOATED FOR SOUNDPROOFING, CHROME PLATED BRASS SWIVEL TYPE HIGH RISE 13" GOOSE NECK SPOUT, 1/4" TURN CARTRIDGES, 17 GAUGE P-TRAP, MCGUIRE NO. 151A STAINLESS STEEL STRAINER DRAIN OUTLET WITH TAILPIECE, MCGUIRE 8912, 17 GA. P-TRAP, MCGUIRE 2165LK LOOSE KEY SUPPLIES WITH RISERS AND ESCUTCHEON, OFFSET DRAIN, INSINK-ERATOR EVOLUTION EXCEL SERIES STAINLESS STEEL GARBAGE DISPOSER, AUTOMATIC REVERSING ACTION, 1 H.P., 120 VOLT MOTOR.	ELKAY NO. ILR622DD T&S NO. B-2347
SK-2 SINK A.D.A. COMPLIANT	NOMINAL OVERALL SIZE 33" X 22" WITH INSIDE BOWL SIZES 14"X15 3/4"X8" DEEP, 20 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, FULLY UNDERCOATED FOR SOUNDPROOFING, CHROME PLATED BRASS SWIVEL TYPE HIGH RISE 8" GOOSE NECK SPOUT, 1/4" TURN CARTRIDGES, BRASS 4" WRIST BLADE HANDLES, MCGUIRE NO. 151A STAINLESS STEEL STRAINER DRAIN OUTLET WITH TAILPIECE, MCGUIRE 8912, 17 GA. P-TRAP, MCGUIRE 2165LK LOOSE KEY SUPPLIES WITH RISERS AND ESCUTCHEON, OFFSET DRAIN, INSINK-ERATOR EVOLUTION EXCEL SERIES STAINLESS STEEL GARBAGE DISPOSER, AUTOMATIC REVERSING ACTION, 1 H.P., 120 VOLT MOTOR.	ELKAY NO. DPP23322 T&S NO. B-2347
SK-3 SKULLERY SINK A.D.A. COMPLIANT	NOMINAL OVERALL SIZE 33" X 30" X 14" DEEP, 14 GAUGE TYPE 304 STAINLESS STEEL ON 4 STAINLESS STEEL LEGS, INTEGRAL STOPS, 4-ARM BRASS HANDLE, PAIL HOOK, TOP BRACE WITH WALL FLANGE, VACUUM BREAKER, ROUGH CHROME PLATED, PRE-RINSE UNIT WITH WALL BRACKET, MCGUIRE NO. 151A STAINLESS STEEL STRAINER DRAIN OUTLET WITH TAILPIECE, MCGUIRE 8912, 17 GA. P-TRAP.	ELKAY NO. S58130 T&S # B-1033-B
SK-4 SINK A.D.A. COMPLIANT	NOMINAL OVERALL SIZE 22" X 22" WITH INSIDE BOWL SIZE 19"X16"X10" DEEP, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, FULLY UNDERCOATED FOR SOUNDPROOFING, CHROME PLATED BRASS SWIVEL TYPE HIGH RISE 8" GOOSE NECK SPOUT, 1/4" TURN CARTRIDGES, BRASS 4" WRIST BLADE HANDLES, MCGUIRE NO. 151A STAINLESS STEEL STRAINER DRAIN OUTLET WITH TAILPIECE, MCGUIRE 8912, 17 GA. P-TRAP, MCGUIRE 2165LK LOOSE KEY SUPPLIES WITH RISERS AND ESCUTCHEON, OFFSET DRAIN, INSINK-ERATOR EVOLUTION EXCEL SERIES STAINLESS STEEL GARBAGE DISPOSER, AUTOMATIC REVERSING ACTION, 1 H.P., 120 VOLT MOTOR.	ELKAY NO. DLR22210 JAY R. SMITH 2005-CHICAGO WALL MOUNTED SPRAYER 154-ALCP
EDF-1 ELECTRIC DRINKING FOUNTAIN A.D.A. COMPLIANT	MEETING A.D.A., WALL MOUNTED ALL STAINLESS STEEL, ELECTRIC WATER COOLER, COOLING CAPACITY TO BE 8.0 GALLONS PER HOUR FROM 80 DEGREE F. INLET WATER TEMPERATURE TO 50 DEGREE F. OUTLET WATER TEMPERATURE IN 90 DEGREE F. AMBIENT, 1/5 H.P. COMPRESSOR, 120 VOLT 60 HZ, MOUNT AT HEIGHT REQUIRED FOR HANDICAPPED AND NON HANDICAPPED, R134A REFRIGERANT, PROVIDE HALSEY TAYLOR CANE TOUCH APPROX IN COLOR TO MATCH DRINKING FOUNTAIN, INSTALL ON HIGH SIDE OF DRINKING FOUNTAIN PER MANUFACTURERS RECOMMENDATIONS.	HALSEY TAYLOR HRFSER-Q BARRIER FREE SPLIT LEVEL
SH-1 SHOWER	SHOWER BASE INSTALLED PER ARCHITECTURAL DRAWINGS, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PRESSURE BALANCE SHOWER VALVE WITH INTEGRAL STOPS, NO. 600 SHOWER HEAD, PROVIDE SHOWER DRAIN, 5" DIAMETER NICKEL BRONZE. PROVIDE WALL MOUNTED HAND SPRAYER FOR OFFICER BATH # 111 AND EMS BATH # 144 ONLY.	CHICAGO FAUCET NO. 1762-4S-VOC JAY R. SMITH 2005-CHICAGO WALL MOUNTED SPRAYER 154-ALCP
MS-1 MOP SINK	FIAT FLOOR MOUNTED UNIT 24" X 24" X 12" HIGH RECEPTOR COMPOSED OF PRECAST TERRAZZO WITH STAINLESS STEEL THRESHOLD CAP, INTEGRAL STOPS, BRASS HANDLE, PAIL HOOK, TOP BRACE WITH WALL FLANGE, VACUUM BREAKER, ROUGH CHROME PLATED, PRE-RINSE UNIT WITH WALL BRACKET.	FIAT T&S-500 897-RCF
MS-2 MOP SINK	FIAT FLOOR MOUNTED UNIT 24" X 36" X 12" HIGH RECEPTOR COMPOSED OF PRECAST TERRAZZO WITH STAINLESS STEEL THRESHOLD CAP, INTEGRAL STOPS, BRASS HANDLE, PAIL HOOK, TOP BRACE WITH WALL FLANGE, VACUUM BREAKER, ROUGH CHROME PLATED, PRE-RINSE UNIT WITH WALL BRACKET.	FIAT T&S-700 897-RCF
WDF-1 WASH DOWN FAUCET	T&S WALL MOUNT MIXING FAUCET, ETERNA CARTRIDGES W/ SPRING CHECKS, LEVER HANDLES 44" FLEXIBLE STAINLESS STEEL HOSE, 1.42 GPM SPRAY VALVE, 5" WALL BRACKET & 1/2" NPT FEMALE OUTLETS, COORDINATE MOUNTING HEIGHT WITH ARCHITECT. PROVIDE WASH DOWN DRAIN.	T&S # B-0133-B JAY R. SMITH 2005-A
FD-1 FLOOR DRAIN	BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS, PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS. REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS.	MIFAB F1100-1-6
WMB-1 WASHING MACHINE DRAIN BOX	16 GAUGE STEEL BOX WITH EPOXY FINISH, MALE IRON PIPE WATER SUPPLY CONNECTIONS AND DRAIN FITTING. PROVIDE SIOUX CHIEF LAUNDRY MINI WATER HAMMER ARRESTOR NO. 660-H AT BOTH HOT AND COLD WATER HOSE THREADS.	GUY GRAY B-200
IMB-1 ICE MACHINE BOX	PLASTIC BOX WITH MALE IRON PIPE WATER SUPPLY CONNECTION WITH WATER HAMMER ARRESTOR. WATER HOSE THREADS. PROVIDE AND INSTALL BLUESTONE APPLIANCE, 3M, MEDIUM CAPACITY ICE MACHINE WATER FILTER, AT APPROXIMATELY 4" AFF.	GUY GRAY # W9700 HA BLUESTONE APPLIANCE # FF9
HB-1 HOSE BIBB	EXPOSED TYPE WALL FAUCET WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER, ROUGH CHROME PLATED BRASS FINISH, LOOSE TEE OPERATING KEY.	MIFAB MHY-90
WH-1 WALL HYDRANT FREEZE-PROOF	CONCEALED BOX TYPE, NON-FREEZE, 3/4" MALE HOSE THREAD OUTLET, SELF-DRAINING WITH ANTI-SIPHON VACUUM BREAKER, CHROME PLATED BRASS HEAD CASTINGS HOUSED WITHIN SATIN FINISH NICKEL BRONZE BOX WITH LOCKING HINGED COVER, LOOSE TEE OPERATING KEY.	MIFAB MHY-20
TFH-1 TRUCK FILLING HYDRANT	TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS, LEAD FREE CAST COPPER SILICON ALLOY CONSTRUCTION, PROVIDE THREADED FIRE HOSE CONNECTION, COORDINATE FINAL LOCATION AND HEIGHT IN ADVANCE WITH ARCHITECT / OWNER AND PROVIDE AS DIRECTED.	WATTS SERIES LF007 DOUBLE CHECK VALVE ASSEMBLY
SO-1 SAND-OIL INTERCEPTOR	SAND-OIL INTERCEPTOR, PRECAST CONCRETE WITH STEEL REINFORCEMENT AND MANHOLE ACCESS COMPLETE WITH COVERS AND FRAMES, DETAILED ON DRAWINGS, PROVIDE APPROVED SAMPLE WELL ON DISCHARGE SIDE OF UNIT.	
SW-1 SAMPLING WELL	DETAILED ON DRAWINGS.	
TD-1 TRENCH DRAIN	HEAVY DUTY TRENCH FRAME AND GRATE SYSTEM, GRAY IRON, CLASS 35, STANDARD 24"X8" SECTIONS, TYPE "A" GRATE OPENING, COORDINATE INSTALLATION WITH STRUCTURE, LENGTH AS INDICATED ON DRAWINGS, REFER TO FLOOR PLANS FOR SIZES, COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS, FLOOR CONSTRUCTION, AND OWNER.	NEENAH FOUNDRY #R-4990AX
FS-1 FLOOR SINK	FLOOR SINK, BOTTOM OUTLET CAST IRON BODY, 12" SQUARE HALF GRATE AND RIM, ANCHOR FLANGE, NICKEL BRONZE, 9" DEEP SUMP WITH A.R.L.E. INTERIOR, ALUMINUM DOME STRAINER, PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS.	MIFAB FS1730-FL-150
FCO FLOOR CLEANOUT	CAST IRON BODY WITH SECONDARY O-RING TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORRIATED NICKEL BRONZE COVER AND FOR CARPETED FLOORS.	MIFAB C1100-RR-1 MIFAB C1100-RC-1
WCO WALL CLEANOUT	CAST IRON CLEANOUT FERRULE WITH BRONZE RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW, PROVIDE CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.	MIFAB C1440-RD6 MIFAB C1460
TWCO TWO WAY CLEANOUT TO GRADE	CAST IRON BODY WITH SECONDARY O-RING TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORRIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER, IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 12" CONCRETE PAD.	MIFAB C1100-XR-4

PLUMBING NOTES:
 1. ALL ESCUTCHEONS SHALL BE STAINLESS STEEL.
 2. ALL ACCESS PANELS SHOULD BE A MINIMUM OF 12"X12".

GAS SUMMARY	
MARK	CAP. CFH
IUH-1A	200 CFH
IUH-1B	200 CFH
IUH-1C	200 CFH
IUH-2	150 CFH
GWH-1	120 CFH
GWH-2	120 CFH
FCU-1	100 CFH
FCU-2	60 CFH
FCU-3	60 CFH
FCU-4	60 CFH
FCU-5	60 CFH
FCU-6	60 CFH
RANGE	150 CFH
OUTDOOR GRILL	65 CFH
TOTAL GAS DEMAND	1,605 CFH

DOMESTIC GAS FIRED WATER HEATER SCHEDULE															
TAG	TYPE	MAX. WORKING PRESSURE (PSIG)	OPERATING PRESSURE (PSIG)	NAT. GAS MIN-MAX INLET PRES.	MINIMUM EFFICIENCY (%)	ENTERING WATER TEMP. (DEG. F)	LEAVING WATER TEMP. (DEG. F)	WATER STORAGE (GAL.)	MAX. WATER DEMAND (GPH)	GPH @ 80° F TEMP RISE	FUEL NATURAL GAS INPUT (CFH)	CONTROL SYSTEM	MANUFACTURER	MODEL	NOTES
GWH-1	CYCLONE	160	70	3.2-10.5 w.c.	95	60	AVG. 140	60	120	173	120	120V	AO SMITH	BTH 120	1,2,3,4
GWH-2	CYCLONE	160	70	3.2-10.5 w.c.	95	60	AVG. 140	60	120	173	120	120V	AO SMITH	BTH 120	1,2,3,4

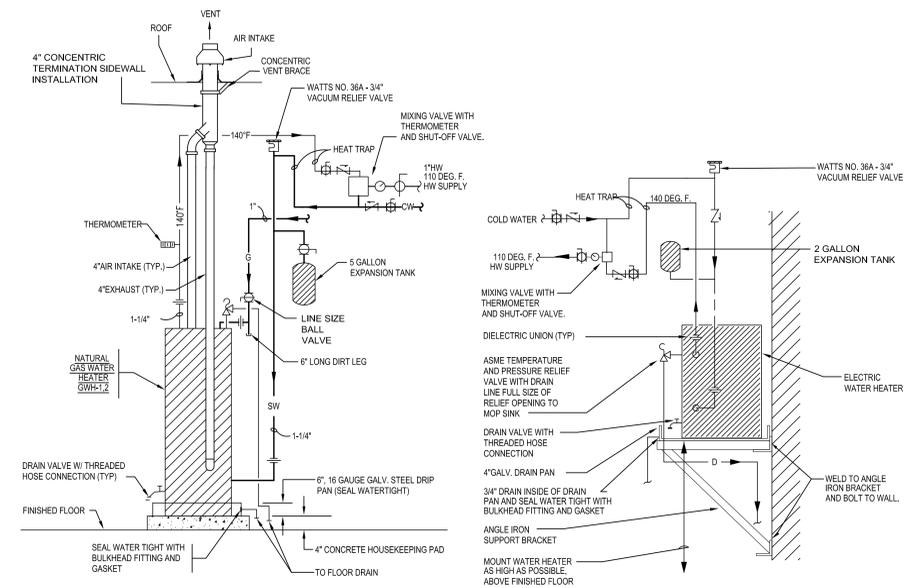
NOTES:
 1. LOW WATER CUT-OFF.
 2. GAS SOLENOID VALVE.
 3. PROVIDE TMV-1 MIXING VALVE.
 4. VENT 4" PVC.

ELECTRIC WATER HEATER SCHEDULE											
UNIT NUMBER	RECOVERY GPH @ 60 °F	STORAGE (GAL)	TANK CONSTR.	DIAMETER	HEIGHT	WATER CONN.	KW (QTY)	MANUFACTURER/MODEL	POWER REQUIREMENTS VOLTS PHASE M.C.A.	NOTES	
EW-1	34	20	STEEL GLASS	22"	23"	3/4"	15(1)	A.O. SMITH MODEL DEL-20	208 1 14.4	1,2	

NOTES:
 1. MANUFACTURER SHALL PROVIDE MANUAL HIGH LIMIT RESET.
 2. PROVIDE AND INSTALL MIXING VALVE TMV-1, REFER TO WATER HEATER DETAIL FOR MORE INFORMATION.

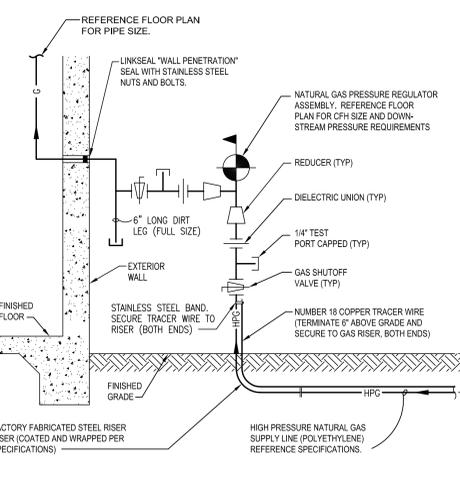
THERMOSTATIC MIXING VALVE SCHEDULE							
ITEM NO.	INLET HOT WATER TEMP (°F)	OUTLET MIXED WATER TEMP (°F)	MINIMUM FLOW (GPM)	DESIGN FLOW (GPM)	PRESSURE DROP @ DESIGN FLOW (PSI)	VALVE FINISH	MANUFACTURER / MODEL NO.
TMV-1	140°	110°	0.5	4	5.0	ROUGH BRONZE	SYMMONS #6-400A

NOTES:
 1. MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 2. PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.



1 GAS WATER HEATER DETAIL
 SCALE: NONE

2 ELECTRIC WATER HEATER DETAIL
 SCALE: NONE



3 GAS METER AND REGULATOR DETAIL
 SCALE: NONE