Norberto "Beto" Salinas, Mayor
Norie Gonzalez Garza, Mayor Pro Tem
Jessica Ortega-Ochoa, Councilwoman

Ruben Plata, Councilman
Dr. Armando O'caña, Councilman
Martin Garza Jr., City Manager

CITY OF MISSION

"Home of the Grapefruit"

November 18, 2016

RE: **Addendum No. 1/City of Mission Event Center**
Request for Proposal No.: 17-010-11-29

Dear Prospective Offeror:

The following is to be corrected/added/changed/clarified: This addendum is being issued in response to the following questions:

a. This addendum is being provided to all firms. Changes are marked with a vertical line.

b. Question: #22 Submittal Details – Are these required as part of the criteria?

Answer: Yes they are required as part of the criteria.

c. Question: #18a – Separate packages for: (Is this Correct?) Technical proposal, Price proposal and Remaining Criteria.

Answer: Please refer to General Terms & Conditions Paragraph 18, Evaluation and Selection of Proposal, General (a), "Separate Packages".

d. Question: #41 City of Mission will retain 10% of each pay app – 10% is not normal, will state law requiring interest be followed? Standard is 5%.
Answer: Retainage remains at 10%, but City will entertain the possibility of reducing it to 5% during negotiations.

e. Question: #59 Will General Contractor have same right to terminate contract?

Answer: No, the contractor will not have the same right to terminate the contract. The City of Mission will work diligently with the successful contractor to ensure a turnkey project is delivered and accepted.

f. **Change: Please refer to the attached revisions to specifications and plans, prepared by the design team. This information will supersede the original construction documents for the construction of the project.**

g. The proposal due date has been extended. The new date for receipt of proposals is **Friday, December 2, 2016 at 2:00 p.m. CST**

h. No other changes result from this Addendum No. 1.

NOTE: This form must be completed and submitted with your bid response. ***WARNING: Failure of an Offeror to acknowledge receipt of this Addendum, as described herein, may result in REJECTION OF THE OFFER.***

We apologize for any inconvenience this may have caused. Authorized signature is needed. Everything else shall remain the same. If you have any questions, please contact me at (956) 580-8667.

Sincerely,

Eduardo Belmarez
Purchasing Director

_____ Acknowledge receipt of Addendum No. 1
Authorized Signature

_____ _____
Printed Name Company Name

ZDA
architecture

ADDENDUM 1

Date: 11-16-2016
Project: Mission Event Center
Project No.: 2016-01

The following Addendum shall supersede and modify the original plans and specifications and shall be part of the Contract Documents.

GENERAL:

1. ***Alternate #6:*** Additional electrical access in the parking lot and in the green area to the East of the building will be provided. Refer to Revised **Sheet E1.0** attached herewith.

    a. *Refer to Revised **Sheet ALT0.02** attached for addition of Alternate #6*
    b. *Refer to Revised **Bid Form** attached for addition of Alternate #6*
    c. *Refer to Revised Schedule of Alternates **Section 01 23 00** attached herewith.*

2. *Modification*: A General Contractor shall construct furr out in the corner of the lobby, Salon "G" (East Wall) and Corridor #127 to conceal the pipe and install recessed "Quick Connect" valve cabinet. Furr out will be built using 3-5/8" 20 Gauge metal studs at 16" on center and 5/8" Gypsum Board, painted. Refer to **Sheets A-1, A-2 & A-3** attached for specified location of furr outs.

3. *Modification:* A recessed knox box adjacent to the door 123 of the sprinkler riser room shall be provided and installed for firefighter access. Refer to Revised floor plan **Sheet A-4** attached herewith.

4. *Modification:* Add 4" x 4" concrete curb in all the walls in the Riser Room except at door location. This will ensure any water will drain beneath the door towards the outside in the event of a leak in the fire riser room. See revised **Sheet A-4** attached for location of concrete curb.

5. *Modification:* Add fire extinguisher to kitchen (B.C. 1016 fire extinguisher) next to existing. Refer to revised **Sheet A-5** attached.

6. *Modification:* There will be four (4) new floor receptacles, recessed and flush, added to the lobby in specified locations. Cover color to be bronze. Refer to Revised **Sheet E1.2** and Architectural **Sheet A-6** attached for locations of new floor receptacles.

7. *Modification: Finish material on* Doors # 133A and #134A shall be changed from paint to plastic laminate. Laminate both sides top and edges. Laminate color shall be – Pionite, MT400 Filleto Marble, Super-Matte (SM) finish.

8. *Modification:* Contractor to provide and install 1-1/2" (25ga) Furring Channels in lieu of 7/8" Furring Channels originally called for; throughout the entire project. Refer to revised **Sheet A1.01 & A1.02** attached herewith.

9. *Clarification:* Provide and install weather stripping at all exterior doors.

10. *Clarification:* Joint size for cut stone at interior walls (At concession stands and Reception areas) will be 3/16". Provide metal lath behind stone during installation. Stone size is 8" x 36" x 1-1/4" thick. Installation is staggered joint.

11. Clarification: Specification Number **12 24 13 – Window Shades** shall be replaced with Specification Section attached herewith. This represents the basis of design for the project.

12. *Clarification:* Window frame will be inset on CMU where metal wall panels meet window frame. Refer to revised Details on **Sheet A-7 & A-8** attached herewith.

13. *Clarification:* FRP panels will be installed on wall over quarry base at kitchen and any corridors as specified in finish plan.

14. *Clarification:* Specification Number **03 35 00 – Concrete Finishing** shall be replaced with Specification Section attached herewith.

15. *Clarification:* BAS 8' Essence HVLS fans will be used in exterior patio areas. Refer to Lighting Fixture Schedule, Type S on **Sheet E3.1** attached herewith.

16. *Clarification:* The fountain dimensions are 10'-0" wide x 32'-0" long x 4'-0" deep. The pump vault dimensions are 8'-0" wide x 8'-0" long x 8'-0" deep. Refer to revised to **Sheet A-9**.

17. *Clarification:* For location of the Video Wall to be installed in the lobby please refer to **Sheet A-10** attached herewith. Refer to **Sheets A4.05, E1.2 & AV1.0** for additional clarifications**.** Provide electrical, data & blocking as required

18. *Clarification:* Metal Shelves will be installed in the Storage Building. Refer to **Sheet A0.08** & Specification Number **10 56 13 – Metal Storage Shelving.**

19. *Clarification:* Wall between Corridor 127 and Storage 129 shall be constructed with 8" CMU; Wall Type F. Refer to **2/A4.02** and revised **Sheet A1.02.**

20. *Clarification:* Collapsible stage will not be part of the scope of this work. Disregard Specification Number **11 61 23 – Folding and Portable Stages and Risers.**

21. *Clarification:* Restroom stalls in public restroom building to be stainless steel and doors in restroom stalls in main building to be plastic laminate.

CIVIL

1. *Clarification:* The excavated material from the proposed ditch widening can be utilized for filling of the existing drainage swale (C1.00) and also can be utilized for the fill material required at the walking trail area.

2. *Clarification:* C1.10. The excavation for the **pump vault** will be 8'-0" wide x 8'-0" long x 8'-0" deep. There will be a concrete leveling pad at the bottom of this excavation. Refer to detail 1/F4.00.

3. *Clarification:* General Contractor to excavate the area for each fountain 10'-0" wide x 32'-0" long x 4'-0" deep.

STRUCTURAL

1. *Modification:* Add 4" x 4" concrete curb in all the walls in the Riser Room except at door location. See revised **Sheet ADD#1/S1, ADD#1/S3 & ADD#1/S4** attached herewith.

2. *Clarification:* Foundation design for fountain is on Sheet **ADD #1/S2 & ADD#1/S5** attached herewith.

3. Clarification: Footing for Aluminum canopy connecting building to bus drop-off will be 3500 psi concrete with 2'-0" diameter X 5'-0" deep. Concrete footing will have structural steel size No. 5 Re-bar.

MECHANICAL

1. Refer to Addendum #1: MEP Solutions Engineering attached herewith.

ELECTRICAL

1. Refer to Addendum #1: MEP Solutions Engineering attached herewith.

PLUMBING

1. Refer to Addendum #1: MEP Solutions Engineering attached herewith.

LANDSCAPE

1. Refer to Addendum No. 1: CFZ Group, LLC. attached herewith.

TO: OWNER

The undersigned, as Offeror(s), declares that the only person or parties interested in this Proposal as principals are those named herein, that this Proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the form of contract, Notice to Contractors, specifications and the plans thereon referred to, and has carefully examined the locations, and conditions and classes of materials of the proposed work; and agrees that he will provide all the necessary labor, machinery, tools, and apparatus, and other items incidental to construction, and will do all the work and furnish all the materials called for in the contract and specifications in the manner prescribed therein and according to the requirements of the Engineer/Architect as therein set forth.

The Offeror shall attach to his/her Proposal sheet a list of any exceptions to the specifications.

It is understood that the following quantities of work to be done at unit prices are approximate only and are intended principally to serve as a guide in evaluating Proposals.

It is further agreed that the quantities of work to be done at unit price and materials to be furnished, may be increased or diminished as may be considered necessary, in the opinion of the Engineer/Architect, to complete the work fully as planned and contemplated, and that all quantities of the work, whether increased or decreased, are to be performed at the unit prices set forth below except as provided for in the specifications.

It is further agreed that lump sum prices may be increased to cover additional work ordered by the Engineer/Architect, but not shown on the plans or required by the specifications, in accordance with the provisions of the General Conditions. Similarly, they may be decreased to cover deletion of work so ordered.

The Proposal security accompanying this Proposal shall be returned to the Offeror, unless in case of the acceptance of the Proposal the Offeror shall fail to execute a contract and file a performance bond and payment bond within the ten (10) days after its acceptance and release of notice of award, in which case the Proposal security shall become the property of the OWNER, and shall be considered as payment for damages due to delay and other inconveniences suffered by the Owner on account of such failure of the Offeror. It is understood that the Owner reserves the right to reject any or all Proposals.

City Of Mission

Price Proposal Schedule

Proposal Name/No.: "City of Mission Event Center"/ 16-217-05-17

For any questions directly regarding the **"City of Mission Event Center- Proposal No. 16-217-05-17"**, please call or email:

Eduardo Belmarez, Purchasing Director: ebelmarez@missiontexas.us
Telephone: (956) 580-8667

PROPOSAL FORM MUST BE SUBMITTED IN DUPLICATE FORM

OFFEROR(S) BOND in the amount of $_____, in compliance with the INSTRUCTION TO OFFEROR(S).

The above check or Offeror's Bond is to become the property of the City of Mission, Texas, in the event the construction contract (when offered by the Owner) and bonds are not executed within the time set forth.

ENGINEER'S/ARCHITECT'S ESTIMATE OF QUANTITIES - APPROXIMATE ONLY

The intent of this Proposal is to include the complete project, in place and operational as described on the plans and in the specifications. The following Proposal items must include all of the materials, equipment and labor necessary to complete the project. Any necessary materials, equipment and labor not specifically called out in the following Proposal items are assumed to be included in the various items in this Proposal form.

Proposal Opening Date and Time: **Tuesday, November 1, 2016 AT 2:00 P.M. (CST)**

From:

Offeror:_____(Name)

Project: Mission Event Center

To: Mr. Eduardo Belmarez
Purchasing Department
1201 E. 8th Street
Mission, TX. 78572
Tel. (956)580-8667

Proposal:

The undersigned Offeror proposes, as general contractor, to furnish all labor and materials required for the above Project and to construct the Project in strict conformity with the Contract Documents, including the drawings and specifications, including Addenda #'s _____, and any laws, statutes, ordinances, rules, or regulations of any governmental agencies or public authorities relating thereto for the following:

(Offeror must complete the construction within the number of calendar days indicated below or as specified in Division One of the Specifications. Enter number of calendar days, in both words and figures).

Base Proposal: The Offeror agrees to execute all work described in the drawings, specifications, and other contract documents, including addendum/addenda, for the sum (Offeror must include "allowances" set forth in the specifications, drawings, contract documents, addendum/addenda) entered below for each of the projects collectively, as follows:

Mission Event Center:

_____ / _____
(AMOUNT IN WORDS) (AMOUNT IN FIGURES)

Five Hundred Thousand Dollars / **$500,000**
(AMOUNT IN WORDS **- ADD $ 500,000 .00 CONTINGENCY)** **(**AMOUNT IN FIGURES)

_____ / _____
(AMOUNT IN WORDS**- GRAND TOTAL**) (AMOUNT IN FIGURES)

The Offeror agrees to complete the project within _____ / _____
(WORDS) (FIGURES)
calendar days from issuance date of the Notice To Proceed which shall not be later than 90 days after the proposal opening date.

Alternates:

1. **Alternate No. 1:** Install 3-ply modified bitumen roof over rigid insulation and ½" recovery board. Rigid insulation on roof is part of base bid, provide separate price for materials and installation of roof system.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

2. **Alternate No. 2:** Provide cost for IPE wood material, installation, staining and sealing for soffit at all exterior canopies over patios.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

3. **Alternate No. 3:** Materials and Construction of two (2) monuments signs at both sides of Victoria Street entrance as shown on plan. This will include the foundation, electrical, data lines and letters for the signs.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

4. **Alternate No. 4:** Provide and install aluminum pylon sign at N. Shary Rd. entrance in location as shown on plan. This includes the construction of the foundation, electrical, data lines and letters for the sign.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

5. **Alternate No. 5:** Provide and install vinyl wall covering wainscot as all of the walls on the salon room. This excludes the operable wall partitions. Wallcovering by LENS-TEXAS ASAP-5005 Type II. Contact: MDC Wallcovering, Laura Hopkins Ph: 210-3565-9411. Wood chair rail and base will be part of base bid.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

6. **Alternate No. 6:** Additional electrical access in the parking lot and in the green area to the East of the building will be provided.

_____ / _____ (AMOUNT IN WORDS)

(Increase) (Decrease) the Contract Time by _____ calendar days if this Alternate is accepted.

ALLOWANCE SCHEDULE (Include all allowances in Base Proposal)

1. Allowance No. 1: Mechanical Testing and Balance- $28,000
2. Allowance No. 2: Mechanical Commissioning- $50,000
3. Allowance No. 3: Computer Servers- $10,000
4. Allowance No. 4: Two (2) Theatrical Track Lighting- $10,000
5. Allowance No. 5: Sealed submittal package on fountains- $5,000
6. Allowance No. 6: Utility adjustment allowance for civil work- $60,000

The undersigned agrees, unless hereinafter stated otherwise to furnish all materials as shown and specified in the Plans and Specifications.

Offeror hereby agrees to commence work under this contract within 10 calendar days after notice to PROCEED is issued and complete the work within 540 days.

Receipt is acknowledged of the following addenda:

No. _____ Dated _____ No. _____ Dated _____

No. _____ Dated _____ No. _____ Dated _____

No. _____ Dated _____ No. _____ Dated _____

Offeror agrees that the Owner has the right to accept or reject any or all Proposals and to waive any or all formalities.

DATE: _____ Respectfully submitted,

BY: _____
(Signature)

_____
(Type or Print Name)

_____
(Title)

_____
(Company)

_____
(Address)

_____

_____
(Phone Number)

(Seal - If Offeror is a Corporation)

_____
(Fax Number)

Federal ID or SS# Number: _____

*Signature on this form indicates agreement with "Instructions to Proposer-General Terms and Conditions, Pricing, and Specifications"

SECTION 01 23 00 – ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

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

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No.1: Install 3-ply modified bitumen roof over rigid insulation. Rigid insulation on roof is part of base bid, provide separate price for materials and installation of roof system.

B. Alternate No 2: Provide cost for IPE wood material, installation, staining and sealing for soffit at all exterior canopies over patios.

C. Alternate No. 3: Materials and Construction of two (2) monument signs at both sides of Victoria Street entrance as shown on plan. This will include the foundation, electrical, data lines and letters for the signs.

D. Alternated No. 4: Provide and install aluminum pylon sign at N. Shary Rd. entrance in location as shown on plan. This includes the construction of the foundation, electrical, data lines and letters for the sign.

E. Alternate No. 5: Provide and install vinyl wallcovering wainscot at all of the walls on the salon rooms. This excludes the operable wall partitions. Wallcovering by LEN-TEXAS ASAP-5005 Type II. Contact: MDC Wallcovering, Laura Hopkins Ph: 210-355-9411. Wood Chair rail and base will be part of base bid.

F. Alternate No. 6: Additional electrical access in the parking lot and in the green area to the East of the building will be provided.

END OF SECTION 01 23 00

SECTION 03 35 00

CONCRETE FINISHING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Finishing concrete floors [and floor toppings].
2. Floor surface treatment.

B. Related Sections:
1. Section 033000 - Cast-in-Place Concrete: [Prepared concrete floors ready to receive finish;] [control and formed expansion and contraction joints and joint devices].
2. Section 03360 - Concrete Finishes: Exposed aggregate finish.
3. Section 033900 - Concrete Curing.
4. Section 079513 - Expansion Joint Cover Assemblies.
5. Section 079200 - Joint Sealers.

1.2 REFERENCES

A. American Concrete Institute:
1. ACI 301 - Specifications for Structural Concrete.
2. ACI 302.1 - Guide for Concrete Floor and Slab Construction.

B. ASTM International:
1. ASTM E1155 - Standard Test Method for Determining Floor Flatness and of Levelness Using the F-number System.

1.3 SUBMITTALS

A. Section 013300 - Submittal Procedures: Submittal procedures.

B. Product Data: Submit data on concrete hardener, sealer, curing compounds curing papers and slip resistant treatment, compatibilities, and limitations.

1.4 CLOSEOUT SUBMITTALS

A. Section 017000 - Execution Requirements: Closeout procedures.

B. Operation and Maintenance Data: Submit data on maintenance renewal of applied coatings.

1.5 QUALITY ASSURANCE

A. Perform Work in accordance with ACI 301 and ACI 302.1.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Section 016000 - Product Requirements: Product storage and handling requirements.

B. Deliver materials in manufacturer's packaging including application instructions.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Section 016000 - Product Requirements: Environmental conditions affecting products on site.

1.8 COMPOUNDS - HARDENERS AND SEALERS

A. Chemical Hardener: Magnesium fluorosilicate and zinc fluorosilicate blend

PART 2 EXECUTION

2.1 EXAMINATION

A. Section 013000 - Administrative Requirements: Coordination and project conditions.

B. Verify floor surfaces are acceptable to receive the Work of this section.

2.2 FLOOR FINISHING

A. Finish concrete floor surfaces in accordance with ACI 301 and ACI 302.1.

B. Wood float surfaces receiving quarry tile, ceramic tile, and cementitious terrazzo with full bed setting system.

C. Steel trowel surfaces receiving carpeting, resilient flooring, seamless flooring, thin set terrazzo, thin set quarry tile, and thin set ceramic tile.

D. Steel trowel surfaces which are scheduled to be exposed.

E. Salt finish at exterior concrete.
1. While concrete is being floated, spread rock salt across surface, float in to the surface of the concrete. (fine texture)
2. When concrete cured sufficiently, wash concrete surface to dissolve and remove salt.

2.3 TOLERANCES

A. Section 014000 - Quality Requirements: Tolerances.

B. Measure for F(F) and F(L) tolerances for floors in accordance with ASTM E1155, within 48 hours after slab installation.

C. Finish concrete to achieve the following tolerances:
1. Under Glazed Tile on Setting Bed: F(F) 35 and F(L) 20.
2. Under Resilient Finishes: F(F) 75 and F(L) 50.
3. Exposed to View and Foot Traffic: F(F) 75 and F(L) 40.
4. Correct slab surface when actual F(F) or F(L) number for floor installation

measures less than required.

D. Correct defects in defined traffic floor by grinding or removal and replacement of defective Work. Areas requiring corrective Work will be identified. Re-measure corrected areas by same process.

2.4 SCHEDULES

A. Clear sealer clear sealer type SL-UT

1. Locations:
a. Interior concrete at building.

2. Salt Finish:
a. Locations: Flatwork surrounding buildings and under canopies.
b. Reference finish schedule and floor finish plan for more information.

END OF SECTION

SECTION 12 24 13

WINDOW SHADES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Motorized roller shades.
B. Manual roller shades, to match motorized shades.
C. Shade accessories.
D. Motorized shade controls.

1.02 RELATED REQUIREMENTS

A. Section ***06 10 00 - Rough Carpentry***: Concealed wood blocking for attachment of headrail brackets.
B. Section ***09 21 16 - Gypsum Board Assemblies***: Substrate for window shade systems.
C. Section ***09 51 00 - Acoustical Ceilings***: Shade pockets, pocket closures and accessories.

1.03 REFERENCE STANDARDS

A. ASTM D4674 - Standard Practice for Accelerated Testing for Color Stability of Plastics Exposed to Indoor Office Environments***; 2002a (Reapproved 2010)***.
B. ASTM E308 - Standard Practice for Computing the Colors of Objects by Using the CIE System***; 2015***.
C. ASTM E903 - Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres***; 2012***.
D. DIN EN 14500 - Blinds and Shutters - Thermal and Visual Comfort - Test and Calculation Methods***; 2008***.
E. IEC 61000-4-2 - Electromagnetic Compatibility (EMC) - Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test***; 2008***.
F. ISO 9001 - Quality Management Systems-Requirements***; 2008***.
G. NECA 1 - Standard for Good Workmanship in Electrical Construction***; 2010.***
H. NECA 130 - Standard for Installing and Maintaining Wiring Devices; National Electrical Contractors Association***; 2010.***
I. NEMA WD 1 - General Color Requirements for Wiring Devices; National Electrical Manufacturers Association***; 1999 (R 2010)***.
J. NFPA 70 - National Electrical Code***; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements***.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Where motorized shades are to be controlled by control systems provided under other sections, coordinate the work with other trades to provide compatible products.
   2. Coordinate the work with other trades to provide rough-in for electrical wiring as required for installation of motorized shades.
   3. Notify ***Architect*** of any conflicts or deviations from the contract documents to obtain direction prior to proceeding with work.
B. Preinstallation Meeting: Conduct on-site meeting with shade control system installer prior to commencing work to review:
   1. Low voltage wiring requirements.
   2. Separation of power and low voltage/data wiring.
   3. Wire labeling.
   4. Control locations.

5. Connections to other equipment.
6. Installer responsibilities.
7. Pocket and/or mounting conditions.

C. Sequencing:
1. Do not fabricate shades until field dimensions for each opening have been taken.
2. Do not install shades until final surface finishes and painting are complete.
3. Do not install wall controls until final surface finishes ***and painting*** are complete.

1.05 SUBMITTALS

A. See Section ***01 30 00 - Administrative Requirements***, for submittal procedures.
B. Product Data: Provide manufacturer's standard catalog pages and data sheets including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.
1. Motorized Shades: Include power requirements and standard wiring diagrams.
C. Shop Drawings:
1. Include ***shade schedule indicating size, location and keys to details; head, jamb and sill details; mounting dimension requirements for each product and condition; including operation direction.***
2. Motorized Shades:`
a. Provide schematic system riser diagram indicating component interconnections. Include requirements for interface with other systems.
b. Provide shade drive layout drawing showing locations of shade drives, power supplies, and sensor modules.
D. Certificates: Manufacturer's documentation that line voltage components are UL listed or UL recognized.
E. Test Reports: Indicating compliance with specified fabric properties.
F. Samples:
1. Shade Fabric: Showing ***specified colors and patterns***
2. Motorized Shade Controls: Show available color and finish selections.
G. Manufacturer's Installation Instructions: Include application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.
H. Project Record Documents: Record actual installed locations and settings for shade control system components.
I. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of shop drawings.
J. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in ***Owner's*** name and registered with manufacturer***.***

1.06 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.
B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.
C. Manufacturer Qualifications:
1. Company with not less than twenty years of experience manufacturing low voltage motorized shading systems.
2. Registered to ISO 9001, including in-house engineering for product design activities.
3. Qualified to supply specified products and to honor claims against product presented in accordance with warranty.
D. Shade Installer Qualifications: Qualified to install and commission specified products by prior factory training, experience, demonstrated performance, and acceptance of any requirement of the manufacturer, subsidiary of the manufacturer, or licensed agent.

1.07 MOCK-UP

A. Mock-Up: Provide ***minimum 2 ft wide by 3 ft high (minimum 0.60 m wide by 0.94 m high)*** mock-up of window shade ***in pocket/closure*** complete with selected shade fabric including sample of seam when applicable.

1. Obtain ***Architect's*** approval of aesthetics and control functionality prior to fabrication.
.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver shades in manufacturer's unopened packaging, labeled to identify each shade for each opening.
B. Handle and store shades in accordance with manufacturer's recommendations.

1.09 FIELD CONDITIONS

A. Maintain field conditions within manufacturer's required service conditions during and after installation.
1. Basis of Design System Requirements ***- Lutron***, Unless Otherwise Indicated:
a. Ambient Temperature: Between 32 and 104 degrees F (0 and 40 degrees C).
b. Relative Humidity: Less than 90 percent, non-condensing.

1.10 WARRANTY

A. See Section **01 78 00 - Closeout Submittals**, for additional warranty requirements.
B. Manufacturer's Warranty***; 8-Year Limited Warranty***:
1. Shade Control System Components (including shade electronic drive units, shade fabric, and shade hardware):
a. Years 1-5: 100 percent replacement parts coverage, no manufacturer labor coverage.
b. Years 6-8: 50 percent replacement parts coverage, no manufacturer labor coverage.
c. Telephone Technical Support: Available 24 hours per day, 7 days per week, excluding manufacturer holidays.
2. External Shade Control System Components (including control stations, interfaces, and system accessories):
a. One year 100 percent replacement parts coverage, 100 percent manufacturer labor coverage to troubleshoot and diagnose a shade control issue.
b. Telephone Technical Support: Available 24 hours per day, 7 days per week, excluding manufacturer holidays.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Manufacturer: ***Lutron Electronics Company, Inc; www.lutron.com***.
B. Other Acceptable Manufacturers:
1. ***MechoShade Systems, Inc.***
2. ***Draper, Inc.***
3. ***QMotion, Inc.***
4. Products by listed manufacturers are subject to compliance with specified requirements ***and prior approval of Architect.***
C. Substitutions: ***See Section 01 60 00 - Product Requirements***
1. All proposed substitutions (clearly delineated as such) must be submitted in writing for approval by ***Architect*** a minimum of ***10*** working days prior to the bid date and must

be made available to all bidders. Proposed substitutes must be accompanied by a review of the specification noting compliance on a line-by-line basis.

2. By using pre-approved substitutions, ***Contractor*** accepts responsibility and associated costs for all required modifications to related equipment and wiring. Provide complete engineered shop drawings (including power wiring) with deviations from the original design highlighted in an alternate color for review and approval by Architect prior to rough-in.

D. Source Limitations:
1. Furnish products produced by a single manufacturer and obtained from a single supplier.
2. Manual Shades: Produced by the same manufacturer as the motorized shades, to match appearance.

2.02 WINDOW SHADE FABRIC APPLICATIONS

A. Fabric for Roller Shades:
1. Solar Screen Fabric: Basis of Design - Lutron
   a. Fabric Family Name: ***Basketweave 90***
   b. Color: ***Oyster/ Beige***
      1) Fabric Performance Requirements – Spec Grade Solar Screen (THEIA Compliant):
         (a) Openness Factor: ***3%***
         (b) Visible Light Transmittance (Tv): ***8%***
         (c) Solar Transmittance (Ts): ***11%***
         (d) Solar Absorption (As): ***34%***
         (e) Solar Reflectance (Rs): ***55%***
   c. Other Fabric Properties:
      1) Fire Rating: ***NFPA 701, California U.S. Title 19, CAN/ULC-S109-03***
      2) Material Composition: ***35% Fiberglass/ 65% Vinyl on fiberglass***

B. Solar Screen Fabric General Requirements:
1. Fabric Performance Selection:
   a. Fabrics must be selected based on evaluation using a building model.
   b. Model must incorporate location, facade orientation(s), window size(s), glass properties, and interior layout and properties.
   c. Submit report documenting glare, daylight, and view performance results.
2. Fabric Performance Assurance - Spec Grade Solar Screen (THEIA™ Compliant):
   a. Measurement Standards:
      1) Openness Factor: DIN EN 14500.
      2) Visible Light Transmittance (Tv): ASTM E903.
   b. Statistical Validation Level:
      1) Verify with a 95 percent confidence level that 95 percent of all fabric from rolls in the manufacturing lot are within the tolerance bounds (stated above).
      2) Equivalent to Statistical PPK greater than or equal to one, when all rolls of fabric in the lot are evaluated using a minimum of twenty samples.
   c. Certification Documentation:
      1) All rolls of fabric must be certified to comply with the Fabric Performance Requirements (stated above).
      2) Provide documentation with each roll verifying that the statistical requirements for fabric tolerance are met for all rolls of fabric in the manufacturing lot.
      3) Upon request, fabric supplier must be able to trace certification and statistical documentation back to the original lot sample.

2.03 ROLLER SHADES

A. Roller Shades: Fabric roller shades complete with mounting brackets, roller tubes, hembars, hardware and accessories; fully factory-assembled.
   1. Drop: ***Regular roll***
B. Roller Tube: As required for type of operation.
   1. Size: Manufacturer's standard, selected for suitability for installation conditions, span, and weight of shades.
   2. Fabric Attachment: Utilize double-sided adhesive strip with minimum of one turn of fabric on roller before working section of fabric starts.
C. Hembars: Wall thickness designed for weight requirements and adaptation to uneven surfaces, to maintain bottom of shade straight and flat.
   1. Style: ***Architectural half wrap***
   2. Color/Finish: ***TBD***
   3. Endcaps: Color to coordinate as recommended by manufacturer.
D. Motorized Shades: Electronic drive unit concealed from view inside roller tube, controlling shade movement via motor controls indicated; fully compatible with the controls to be installed.
   1. Product(s):
      a. Low-voltage wired shades with wired (low voltage) communications***;***
      b. Low-voltage wired shades with integrated wireless (RF) communications***;***
   2. Audible Noise: Capable of operating at or below 38 dBA measured 3 feet (1 m) from center of the shade depending on the electronic drive unit selected; no audible clicks when motor starts and stops.
   3. Electronic Drive Units:
      a. Low-voltage, for connection to NFPA 70, Class 2 power source.
      b. Size and configuration as recommended by manufacturer for the type, size, and arrangement of shades to be operated.
   4. Integrated Wireless Communications: Communicates directly to compatible RF receiving devices through use of a radio frequency communications link; does not require communication wiring; RF range of 30 feet (9 m).
   5. Coupling of Multiple Shades:
      a. Where possible, minimize number of electronic drive units by coupling adjacent shades.
      b. Utilize coupling pin that allows for precision adjustment of bottom bar levels without removing roller from installed point or fabric from roller tube.
E. Manual Shades: To match motorized shades, by same manufacturer;

2.04 SHADE ACCESSORIES

A. Brackets and Mounting Hardware: Size as recommended by manufacturer for mounting configuration and span indicated.
   1. Universal mounting bracket.
   2. Two-piece adjustable mounting bracket.
   3. Dual bracket for two shades mounted in same opening.
   4. Bracket with wire management for compatible ***Armstrong AXIOM Building Perimeter System*** integrated shade pocket/closure
B. Fasteners: Non-corrosive, and as recommended by shade manufacturer.
C. Fascia ***with top back cover***: Size as required to conceal shade mounting.
   1. Style: ***As indicated on the drawings***
   2. Color/Finish: **TBD**
D. Pocket: Manufacturer's ***standard*** 0.06 inch (1 mm) thick minimum aluminum pocket for recessed mounting.
   1. Provide ***cover flap***

2.05 MOTORIZED SHADE CONTROLS

A. Motorized shades to be controlled by control stations and associated accessories as specified below.

B. General Requirements:

1. Provide products listed, classified, and labeled by Underwriter's Laboratories Inc. (UL) as suitable for the purpose indicated.
2. Unless specifically indicated to be excluded, provide all required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the control intent indicated.
3. System Capacity:
   a. Supports up to 100 wired devices including shades, control stations, and power supplies.
   b. Supports wireless devices within range of the wireless control.
4. Shade Control Requirements:
   a. Capable of operating shades and recalling shade presets via keypad, contact closure input, infrared receiver, lighting management system software, or other lighting control system interface.
   b. Capable of operating any individual, group, or subgroup of shade electronic drive units within system without requiring separate group controllers.
   c. Capable of assigning and reassigning individual, groups, and subgroups of shades to any control within system without requiring additional wiring or hardware changes.
   d. Capable of controlling shade speed for tracking within plus or minus 0.125 inch (3.17 mm) throughout entire travel.
   e. Provide 10 year power failure memory for preset stops, open and close limits, shade grouping and subgrouping and system configuration.
   f. Capable of synchronizing multiple shade electronic drive units regardless of drive or tube size to start, stop and move in unison.
   g. Capable of stopping shades within accuracy of 0.125 inch (3.17 mm) at any point between open and close limits.
   h. Capable of storing up to 250 programmable stop points, including open, close, and any other position.
5. Design shade control equipment for 10 year operational life while operating continually at any temperature in an ambient temperature range of 32 degrees F (0 degrees C) to 104 degrees F (40 degrees C) and 90 percent non-condensing relative humidity.
6. Electrostatic Discharge Tolerance: Design and test equipment to withstand electrostatic discharges without impairment when tested according to IEC 61000-4-2.
7. Device Finishes:
   a. Wall Controls: ***To be selected by Architect***
   b. Standard Colors: Comply with NEMA WD1 where applicable.
   c. Color Variation in Same Product Family: Maximum delta E of 1, CIE L*a*b color units per ASTM E308.
   d. Visible Parts: Exhibit ultraviolet color stability when tested with multiple actinic light sources as defined in ASTM D4674. Provide proof of testing upon request.
8. Provide all components and connections necessary to interface with other systems as indicated.

C. Keypads:

1. General Requirements:
   a. Allows control of any devices part of the shade control system.
   b. Allows for easy reprogramming without replacing unit.
   c. Buttons/Engraving:
      1) Engrave keypads with button, zone, and scene descriptions ***to be selected by Architect***

2) Borders, logos, and graduations to use laser engraving or silk-screened graphic process that chemically bonds graphics to faceplate, resistant to removal by scratching and cleaning.

d. Software Configuration:
1) Customizable control station device button functionality:
(a) Buttons can be programmed to perform single defined action.
(b) Buttons can be programmed to perform defined action on press and defined action on release.

e. Status LEDs:
1) Upon button press, LEDs to immediately illuminate.
2) LEDs to reflect the true system status. LEDs to remain illuminated if the button press was properly processed or LEDs to turn off if the button press was not processed.
3) Support logic that defines when LED is illuminated:
(a) Scene logic (logic is true when all zones are at defined levels).
(b) Last scene (logic is true when spaces are in defined scenes).

2. Wired Keypads***;***
a. Style: ***Architectural Insert Style***
b. Power: Class 2 (low voltage).
c. Communications: Utilize RS485 wiring for low-voltage communications link.
d. Mounting: Wallbox or low-voltage mounting bracket; provide wall plates with concealed mounting hardware.
e. Button/Engraving Backlighting:
1) Utilize backlighting for buttons and associated engraving to provide readability under all light conditions.
2) Backlight intensity adjustable via programming software.
f. Design keypads to allow field-customization of button color, configuration, and engraving using field-changeable replacement kits.
g. Contact Closure Interface: Provide two contact closure inputs on back of unit which provide independent functions from front buttons; accepts both momentary and maintained contact closures.
h. Terminal block inputs to be over-voltage and miswire-protected against wire reversals and shorts.
i. Provide integral infrared receiver for personal control
j. Finish: ***Custom colors to be selected by Architect***

3. Engrave wall stations with button, zone, and scene descriptions ***to be selected by Architect***
4. Software Configuration:
a. Customizable control station device button functionality:

D. Wireless (Radio Frequency) Controls***;***
1. Product(s):
a. 2-Button with Raise/Lower Control;
1) Button Marking: ***Shade (icons)***
b. 3-Button with Raise/Lower Control;
1) Button Marking: ***Shade (text)***
c. 4-Button
1) Button Marking: ***Zone controls (shade)***
2. Communicates via radio frequency to compatible window treatments.
3. Does not require external power packs, power or communication wiring.
4. Allows for easy reprogramming without replacing unit.
5. Single action button programming. Includes LED to indicate button press or programming mode status.
6. Mounting:
a. Capable of being mounted with a table stand or directly to a wall under a faceplate.

b. Faceplates: Provide concealed mounting hardware.
7. Power: Battery-operated with minimum ten-year battery life.
8. Finish: ***White***

E. Timeclock:
1. Product:
2. Allows set up of shade presets using buttons on control unit.
3. Built-in Astronomical Timeclock:
a. 7 day schedules available.
b. One available holiday schedule is programmable by date up to one year in advance.
c. 25 events per day maximum.
d. Astronomic times are programmable by integral city database or entering latitude and longitude. Time automatically adjusts throughout the year based on location.
e. Automatically adjusts for Daylight Savings Time (DST), adjusted for the new dates; DST is programmable.
f. Afterhours feature allows occupants to temporarily override timeclock events.
4. Preset Shade Control:
a. Three columns of shade controls.
b. Open, preset, close, and raise/lower shade buttons.
c. Each shade column can be programmed to operate one shade or a group of shades.
5. Contact Closure Input (CCI):
a. Capable of operating in the following modes:
1) Afterhours: Allows the CCI to start and end the afterhours mode.
2) Timeclock: Allows the CCI to enable and disable the timeclock.
3) Disable CCI: CCI will have no effect on the system and will not appear on the list of available sensors.
4) Security lockout via password for timeclock settings.

F. Low-Voltage Control Interfaces:
1. Provide low-voltage control interfaces as indicated or as required to control the loads as indicated.
2. UL listed.
3. Contact Closure Interface:
a. Product:
b. The contact closure input device to accept both momentary and maintained contact closures.
c. The contact closure output device can be configured for maintained or pulsed outputs.
d. Contact closure can be programmed using conditional logic off of a state variable such as time of day or partition status.
4. RS232 and Ethernet Interface:
a. Product:
b. Provide ability to communicate via Ethernet or RS232 to audiovisual equipment, touchscreens, etc.
c. Provide control of:
1) Shade group presets.
2) Fine-tuning of shade preset levels with raise/lower.
3) Simulate system wall station button presses and releases.
d. Provide status monitoring of:
1) Shade group status.
2) Wall station button presses and releases.
3) Wall station LEDs.

G. Power Supplies: Provide as indicated or as required to power system devices and accessories.

1. Product(s):
   a. Junction box-mounted power supply for shades, keypads, and accessories, and for providing additional low voltage power to communication link**;** with miswire and thermal protection.
   b. Plug-in power supply for shades, keypads, and accessories, and for providing additional low voltage power to communication link; with miswire protection; powered from standard receptacle using cord 6 feet (1.8 m) in length; complies with DOE Level VI regulation.
   c. Ten output power supply panel for shades, keypads and accessories, and for providing additional low voltage power to communication link***;*** no replaceable fuses required for overload/miswire protection; contains DOE Level VI Compliant power supplies.
   d. Ten output power supply panel for wireless shades, keypads and accessories, and for providing additional low voltage power to communication link; no replaceable fuses required for overload/miswire protection; contains DOE Level VI Compliant power supplies.
   e. Power supply for keypads and accessories (not for shades/window treatments), and for providing additional low voltage power to communication link***;***

2.06 SHADE FABRICATION

A. Field measure finished openings prior to ordering or fabrication.
B. Dimensional Tolerances: As recommended in writing by manufacturer.
   1. Horizontal Dimensions - Inside Mounting: Provide symmetrical light gaps on both sides of shade not to exceed
   2. Dimensions - Outside Mounting: Cover window frames, trim, and casings completely.
   3. Horizontal Dimensions - Outside Mounting: Extend shades beyond jambs on each side.
C. At openings requiring continuous multiple shade units with separate rollers, locate roller joints at window mullion centers; butt rollers end-to-end.
D. Fabricate horizontal sealed battens into the fabric for shade stability.
E. Railroad fabric for applications that are wider than the usable fabric roll width.

2.07 SOURCE QUALITY CONTROL

A. See Section ***01 40 00 - Quality Requirements***, for additional requirements.
B. Factory Testing***;***
   1. Perform full-function factory testing on all completed assemblies. Statistical sampling is not acceptable.

PART 3 EXECUTION

3.01 EXAMINATION

A. Motorized Shades and Controls: Verify that ratings and configurations of system components are consistent with the indicated requirements.
B. Examine finished openings for deficiencies that may preclude satisfactory installation.
C. If substrate preparation is the responsibility of another installer, notify ***Architect*** of unsatisfactory preparation before proceeding.
D. Start of installation shall be considered acceptance of substrates.

3.02 PREPARATION

A. Prepare surfaces using methods recommended by manufacturer for achieving best result for substrate under the project conditions.
B. Coordinate with window installation and placement of concealed blocking to support shades.

3.03 INSTALLATION

A. Install products in accordance with manufacturer's instructions.
B. Shade Installation:
   1. Install in accordance with approved shop drawings, using mounting devices as indicated.
   2. Installation Tolerance: maximum offset from level.
   3. Replace shades that exceed specified dimensional tolerances at no extra cost to ***Owner.***
   4. Adjust level, projection and shade centering from mounting bracket where applicable.
   5. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.
C. Motorized Shade Control Installation:
   1. Perform work in a neat and workmanlike manner in accordance with NECA 1 and, where applicable, NECA 130
   2. Adjust open and closed limits set by the manufacturer as required.
   3. Assign each shade to a shade group and set control functions.

3.04 FIELD QUALITY CONTROL

A. See Section ***01 40 00 - Quality Requirements***, for additional requirements.
B. Manufacturer's startup services will not be required.
C. Correct defective work, adjust for proper operation, and retest until entire system complies with contract documents.

3.05 CLEANING

A. Clean soiled shades and exposed components as recommended by manufacturer.
B. Replace shades that cannot be cleaned to "like new" condition.

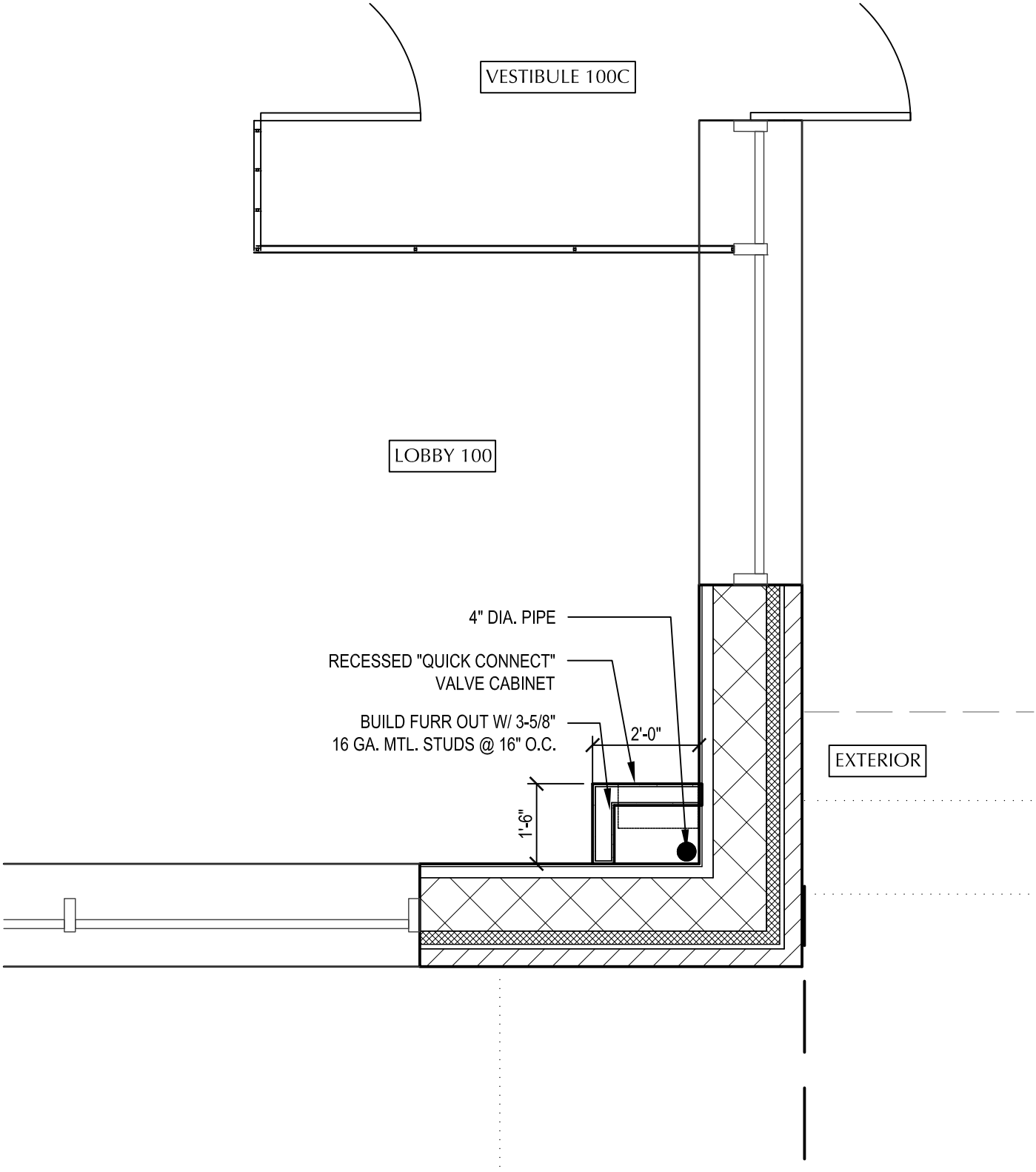
3.06 CLOSEOUT ACTIVITIES

A. See Section ***01 78 00 - Closeout Submittals***, for closeout submittals.
B. See Section ***01 79 00 - Demonstration and Training***, for additional requirements.
C. Training:
   1. Shade control system installer to perform on-site training of ***Owner's*** personnel on operation, adjustment, and maintenance of shade control system.

3.07 PROTECTION

A. Protect installed products from subsequent construction operations.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 12 24 13



1 ENLARGED FLOOR PLAN

SCALE: 3/8" = 1'-0"

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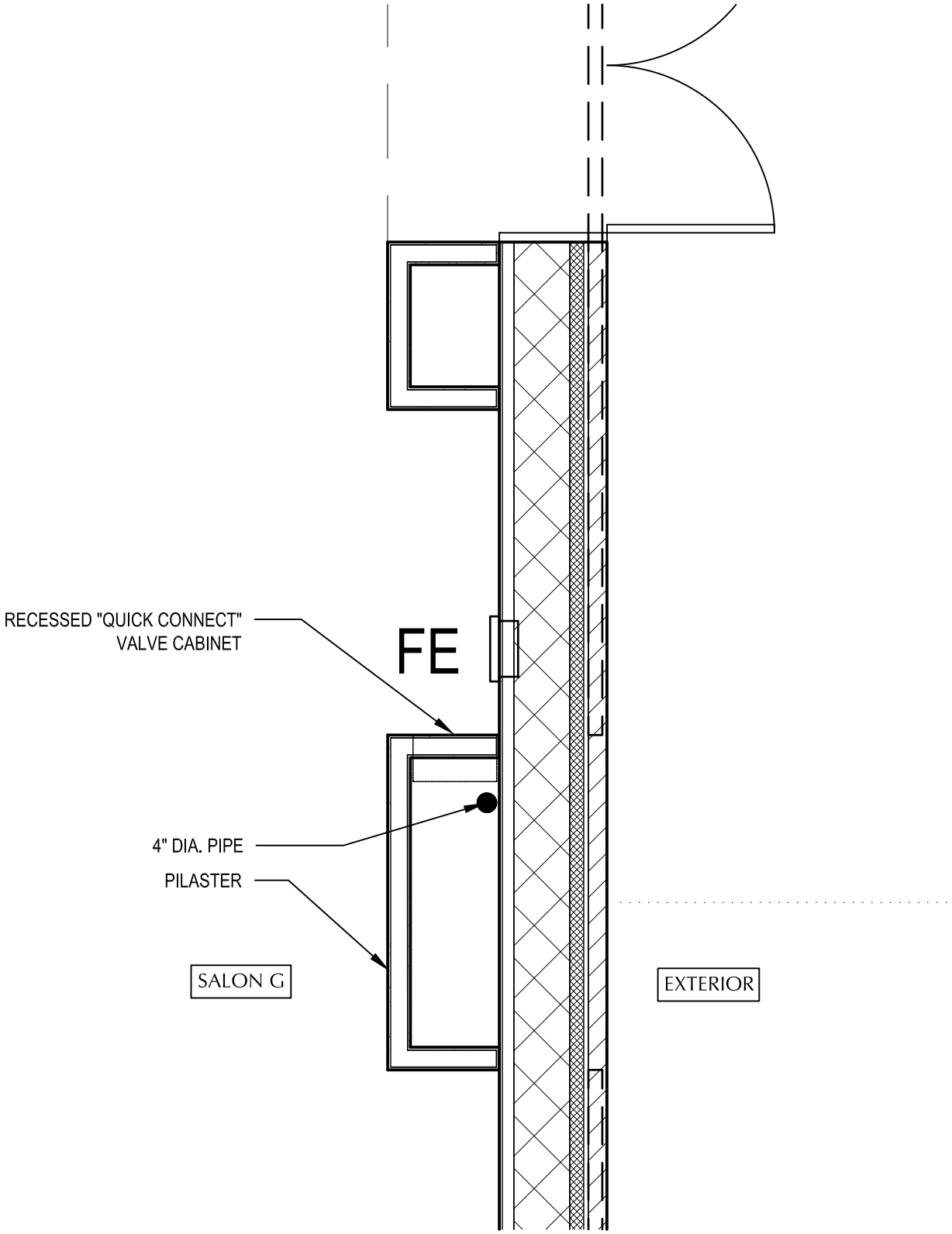
ADDENDUM NO. 1
MISSION EVENT CENTER
210 N. SHARY RD.
MISSION, TX 78572

DATE
11-16-16

PROJECT NO.
2016-01

SHEET NO.
A-1
1 of 10



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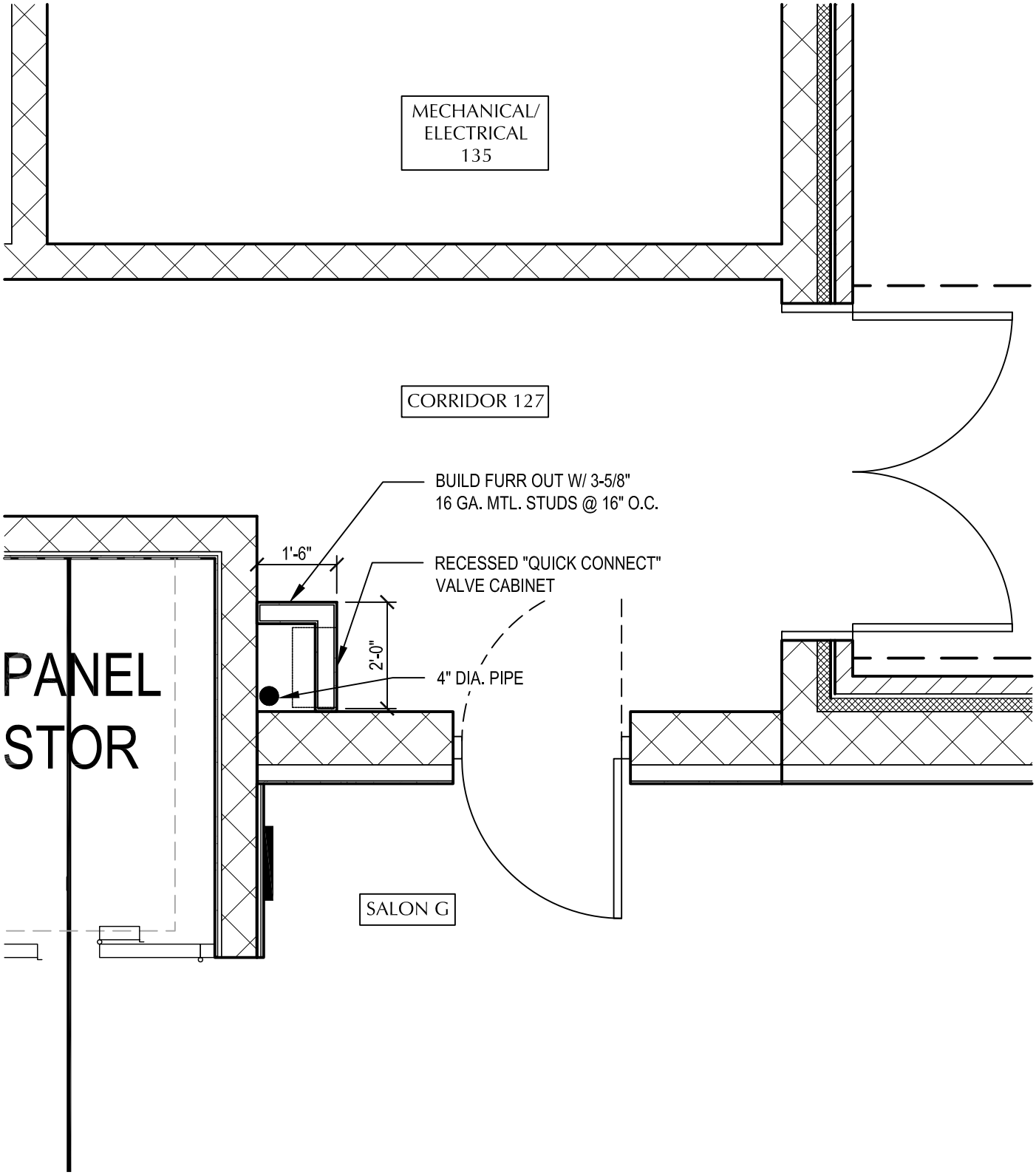
A-2



1 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"

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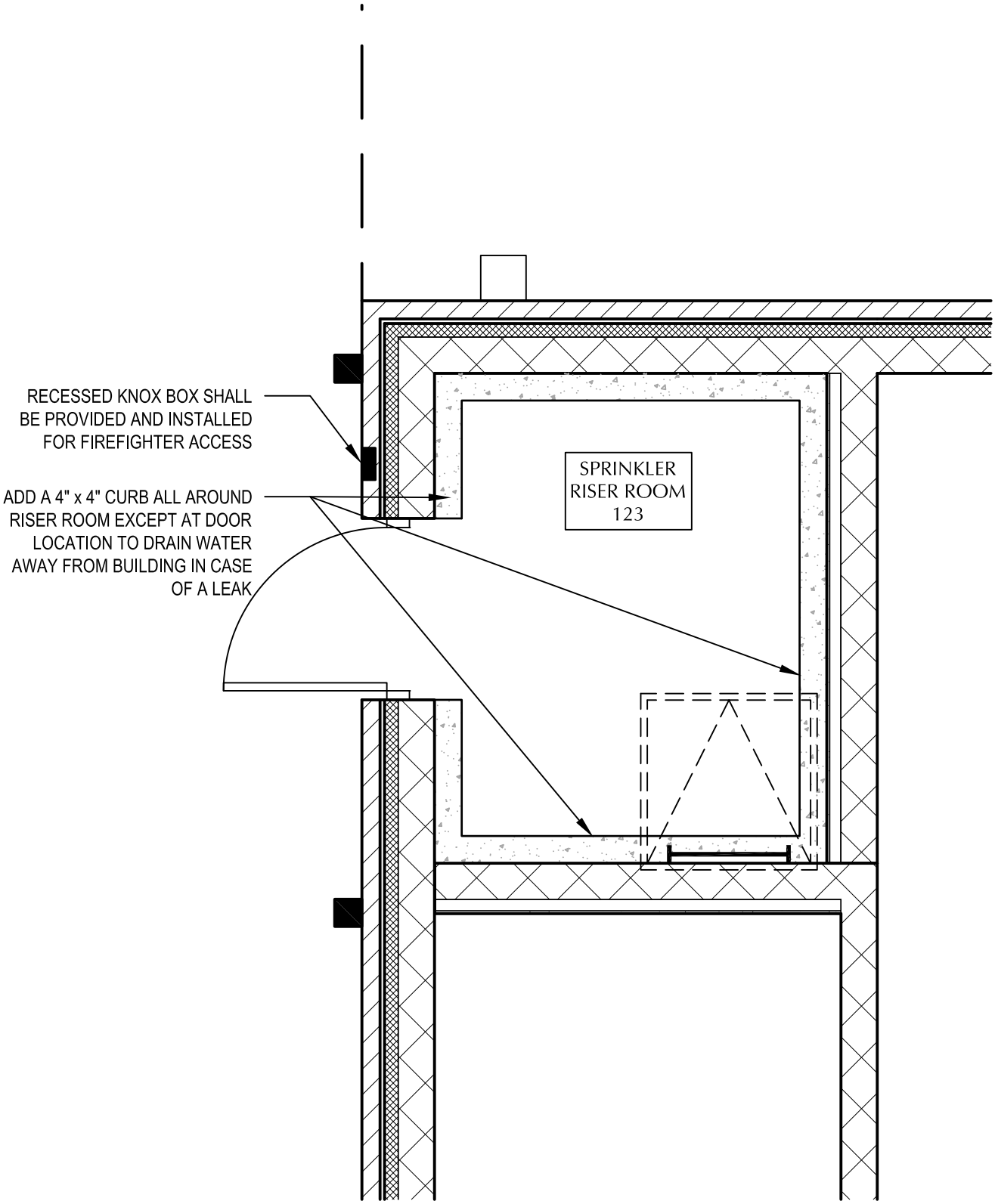
2016-01

SHEET NO.
A-3
3 of 10



1 ENLARGED FLOOR PLAN

SCALE: 3/8" = 1'-0"

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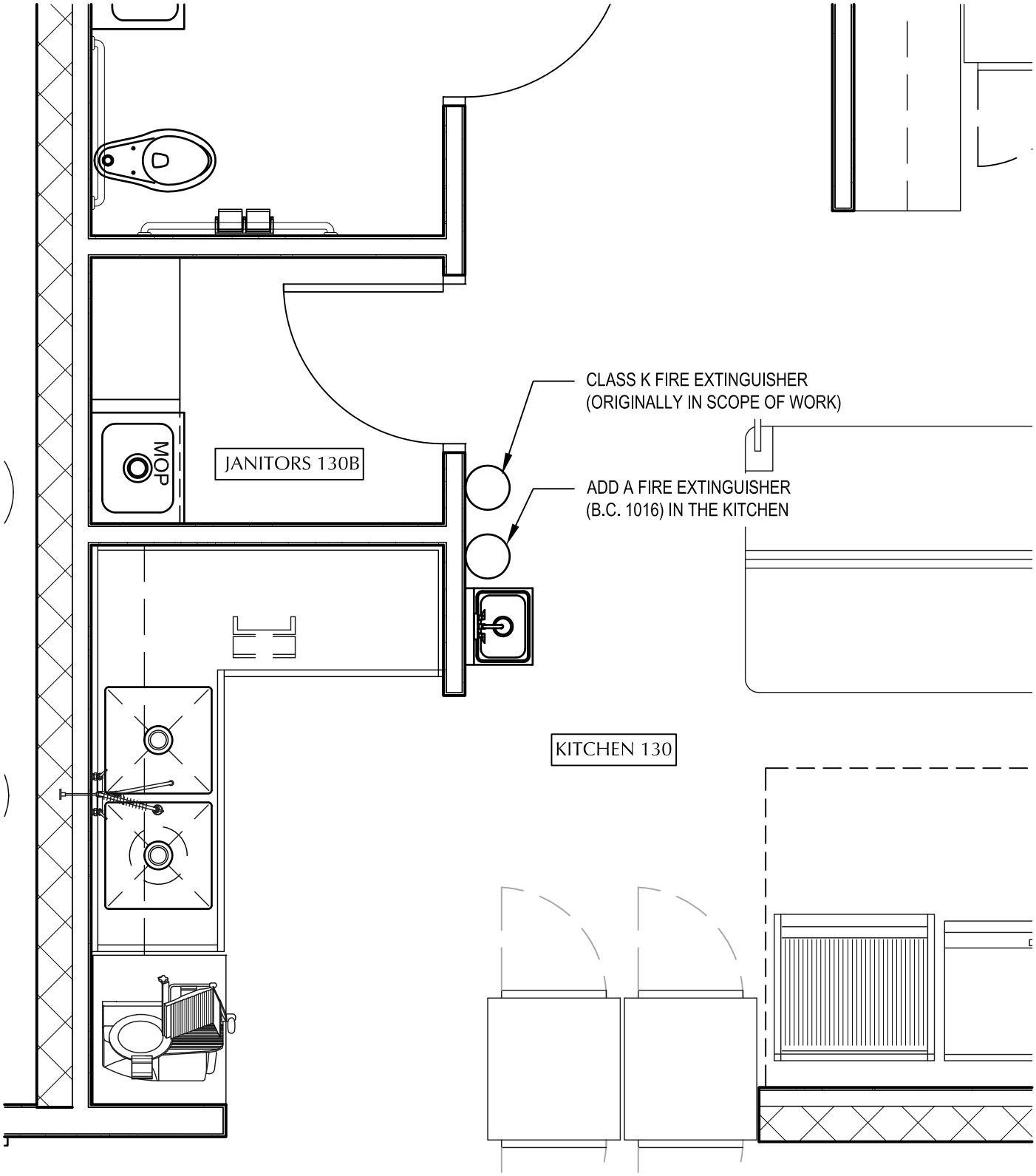
A-4



1 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"

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A-5
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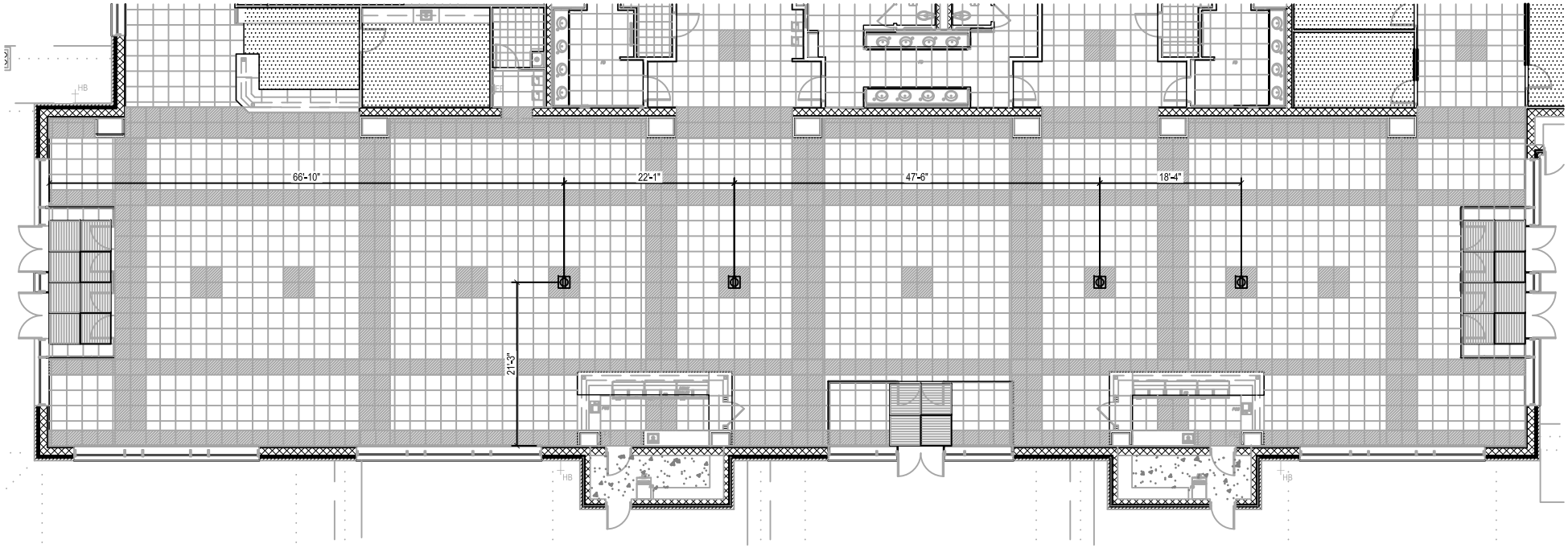

1 FLOOR RECEPTACLE LOCATIONS
SCALE: N.T.S

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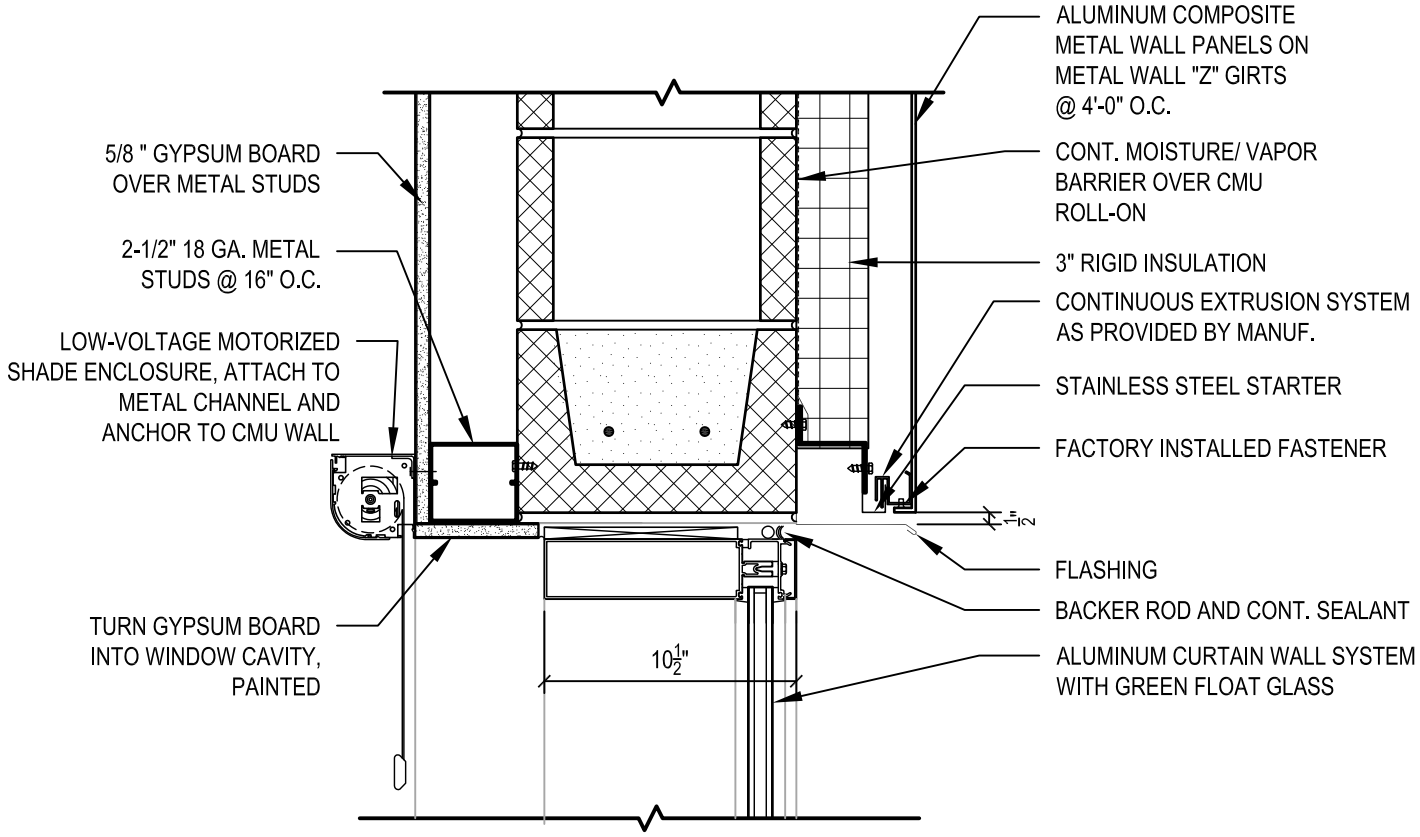

HEAD DETAIL @ CURTAIN WALL

1

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

1 ENLARGED FLOOR PLAN

SCALE: 3/8" = 1'-0"

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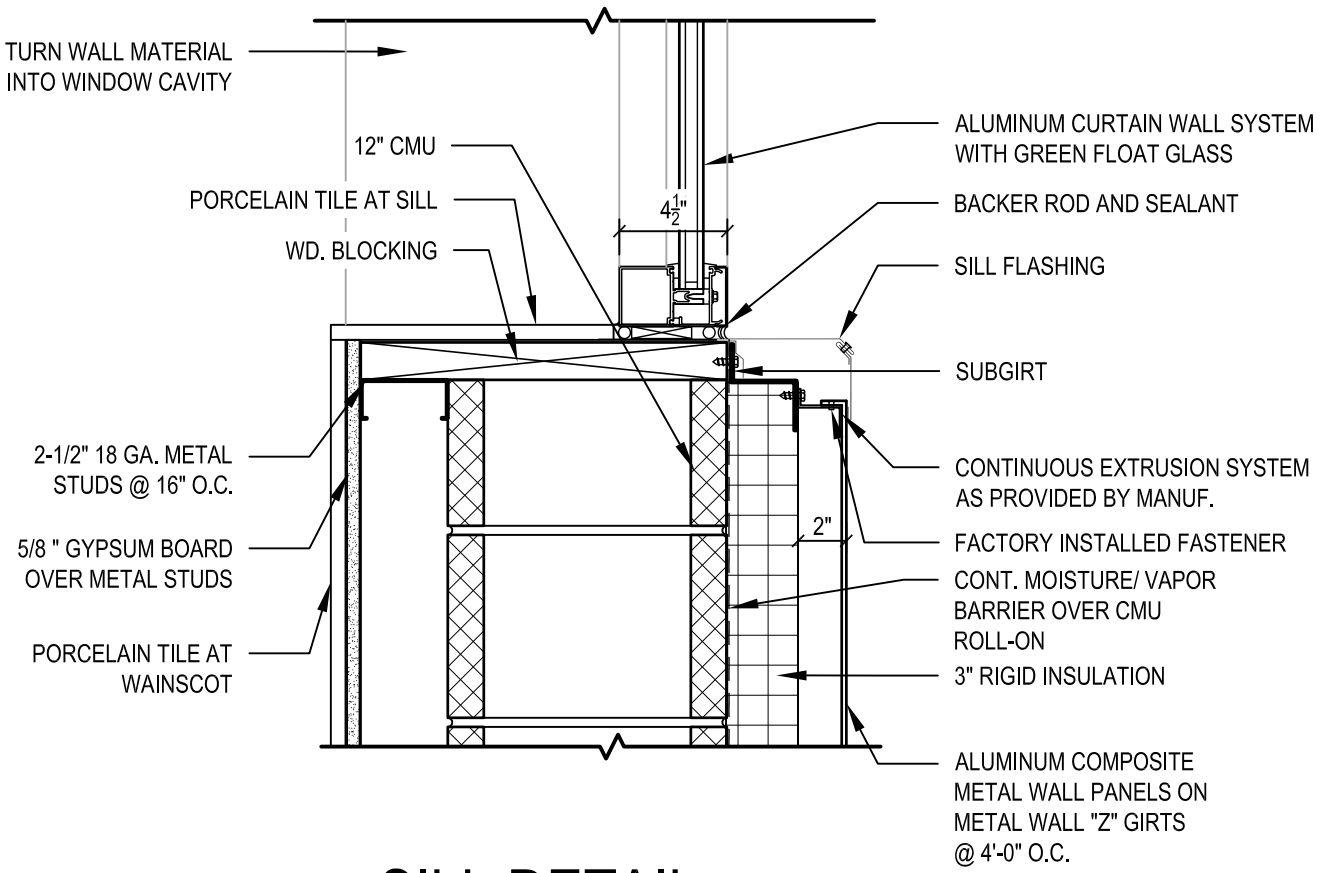

SILL DETAIL @ CURTAIN WALL

1

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

1 ENLARGED FLOOR PLAN

SCALE: 3/8" = 1'-0"

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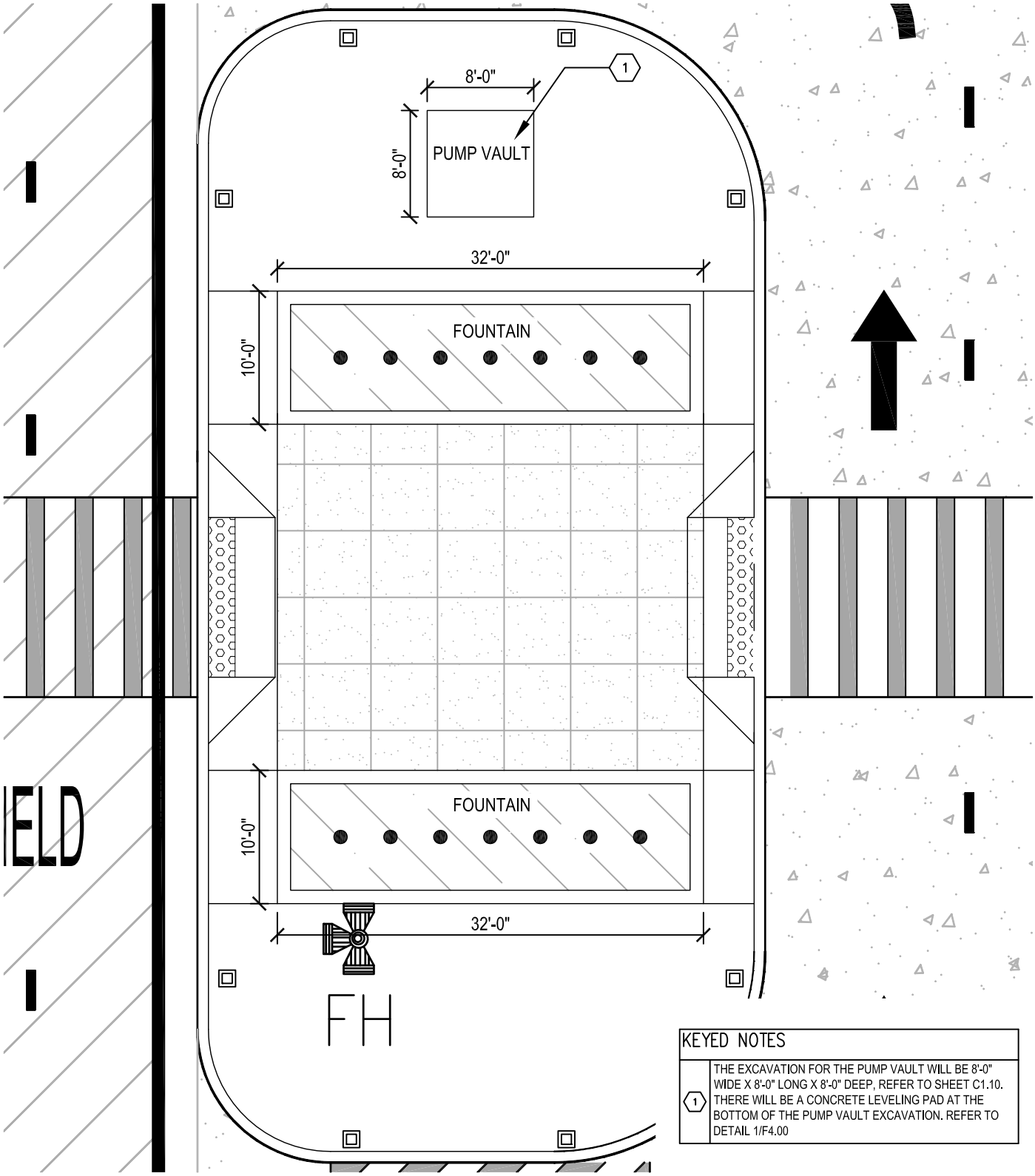

KEYED NOTES	
1	THE EXCAVATION FOR THE PUMP VAULT WILL BE 8'-0" WIDE X 8'-0" LONG X 8'-0" DEEP, REFER TO SHEET C1.10. THERE WILL BE A CONCRETE LEVELING PAD AT THE BOTTOM OF THE PUMP VAULT EXCAVATION. REFER TO DETAIL 1/F4.00

1 ENLARGED SITE PLAN
SCALE: 3/32" = 1'-0"

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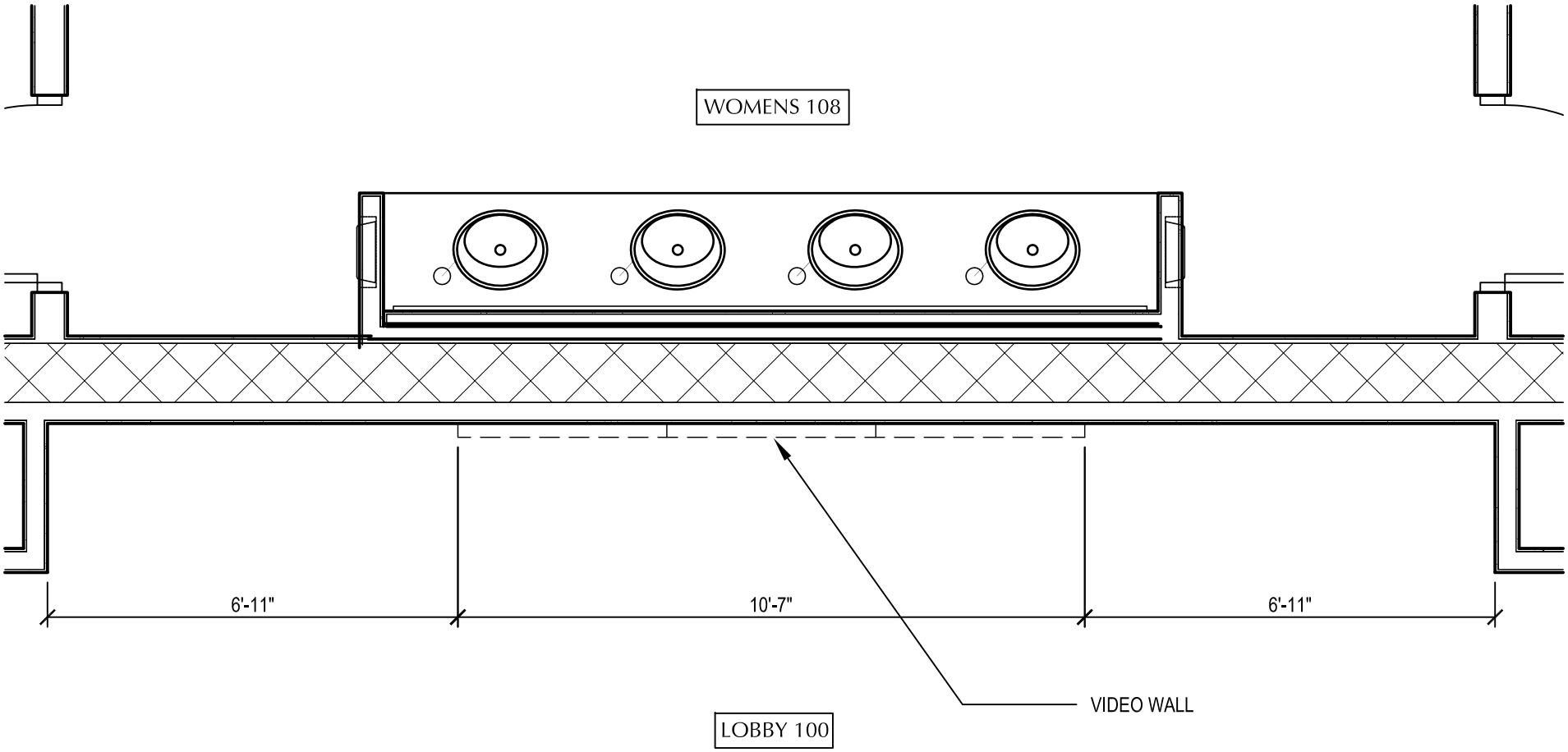

1 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"

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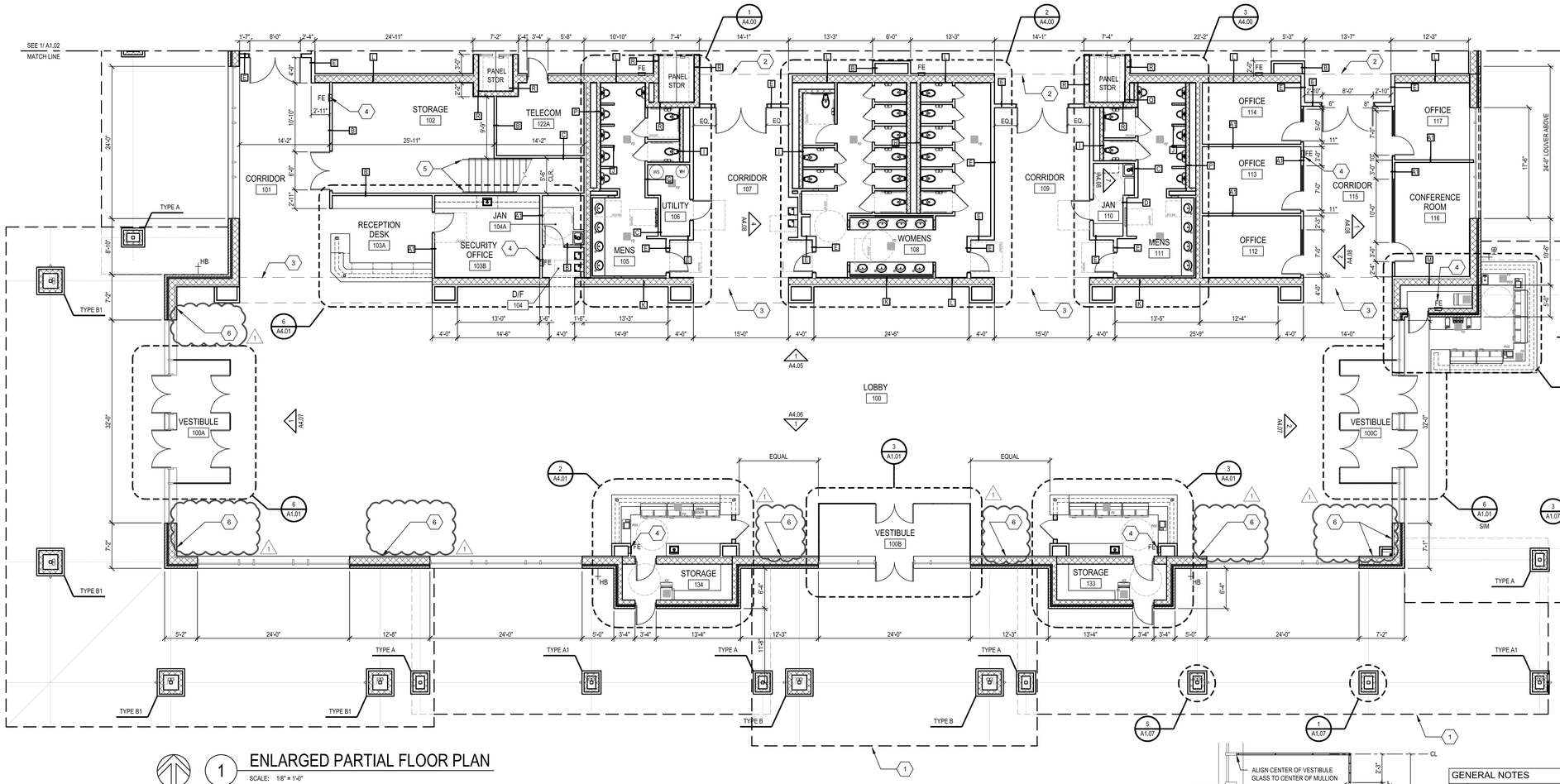

1 ENLARGED PARTIAL FLOOR PLAN
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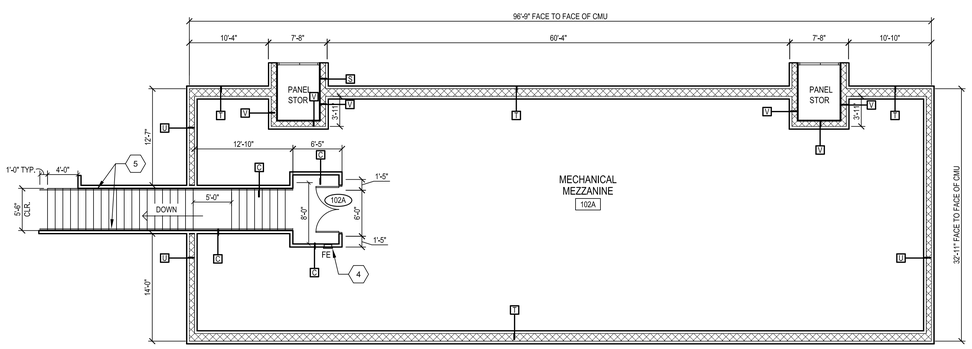

2 ENLARGED MECHANICAL MEZZANINE PLAN
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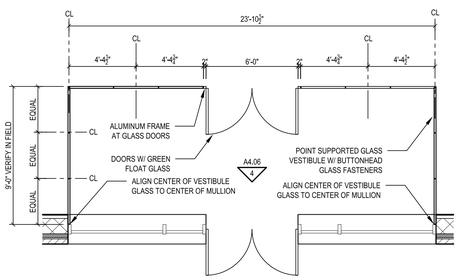
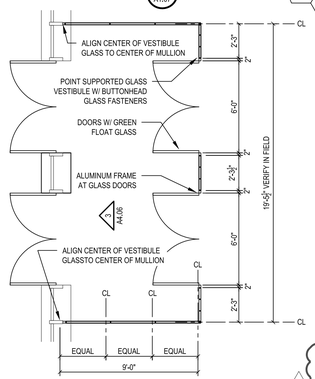
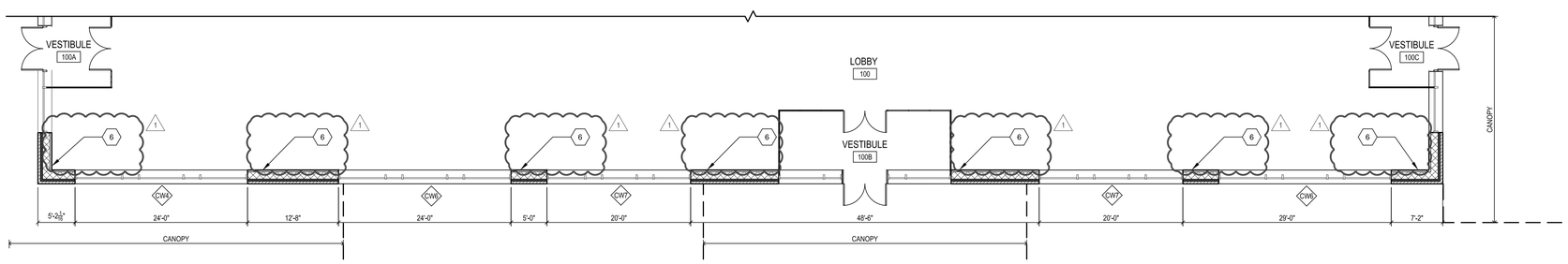


3 ENLARGED VESTIBULE PLAN
SCALE: 1/4" = 1'-0"



4 ENLARGED VESTIBULE PLAN
SCALE: 1/4" = 1'-0"



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

DRAWING LEGEND

FE	RECESSED FIRE EXTINGUISHER CABINET
	FLOOR DRAIN
HB	RECESSED HOSE BIB
RM NAME XXX	ROOM NUMBER
	PARTITION TYPE REFER TO PARTITION TYPE SCHEDULE

GENERAL NOTES

1. DIMENSIONS OF METAL STUD WALLS ARE TO FACE OF STUD. SEE ENLARGED PLANS FOR DIMENSIONS AT TOILET ROOMS.
2. SEE EXTERIOR ELEVATIONS FOR LOCATIONS OF CLERESTORY WINDOWS.
3. PROVIDE MASONRY CONTROL JOINTS IN EXTERIOR WALLS AS SHOWN ON EXTERIOR ELEVATIONS.
4. PROVIDE MASONRY CONTROL JOINTS AT INTERIOR CMU WALL AT 12'-0" O.C. MAXIMUM FOR WALLS OVER 12'-0" HIGH AND AT 20'-0" O.C. MAXIMUM FOR WALLS LESS THAN 12'-0" HIGH.
5. PROVIDE CONTROL JOINTS IN INTERIOR GYPSUM BOARD WALLS AT 30'-0" MAX. AT DOOR JAMBS EXTENDING FROM DOOR TO CEILING AND AS SHOWN ON INTERIOR ELEVATIONS.

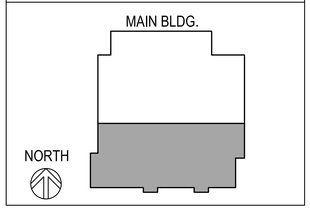
KEYED NOTES

1. EXTERIOR CANOPY, REFER TO EXTERIOR ELEVATIONS FOR CANOPY HEIGTHS.
2. FURR DOWN ABOVE, REFER TO REFLECTED CEILING PLAN FOR HEIGHTS.
3. CASED OPENING WITH PHENOLIC PANELS W/ PLASTIC LAMINATE FINISH (PL-2). INSTALL WITH MANUFACTURER'S CLIPS OVER GYPSUM BOARD. PROVIDE ALUMINUM REVEALS INBETWEEN PANELS
4. PROVIDE 5LB FIRE EXTINGUISHER(S) IN VISIBLE (PUBLIC) LOCATIONS WITHIN 50FT TRAVEL DISTANCE OF ALL INTERIOR LOCATIONS. FIRE EXTINGUISHERS IN PUBLIC ARES SHALL HAVE A SEMI-RECESSED WALL CABINET WITH ROLLED EDGES AND WITH NARROW GLASS (EQUIV. TO LARSEN'S VERT. DUO STYLE). MOUNT FIRE EXTINGUISHER CABINETS WITH TOP AT 44", CLEAR ANODIZED ALUM.
5. STEEL PIPE HANDRAIL AT STAIR, BOTH SIDES. GRIND ALL WELDS SMOOTH, PREP AND PAINT, 2 COATS. REFER TO DETAIL 2/A1.09.
6. CONTRACTOR TO PROVIDE AND INSTALL 1-1/2" (25 GA.) FURRING CHANNELS IN LIEU OF 7/8" FURRING CHANNELS ORIGINALLY CALLED FOR; THROUGHOUT THE PROJECT.

WALL LEGEND

	MTL. STUD WALL W/ 5/8" GWB BOTH SIDES
	CMU WALL
	CMU WALL W/ 5/8" GWB ON MTL. STUDS ON ONE SIDE & PAINTED CMU ON OTHER SIDE
	CMU WALL W/ 5/8" GWB ON MTL. STUDS ON ONE SIDE & 5/8" GWB ON 1-1/2" FURRING CHANNELS ON OTHER SIDE
	CMU WALL W/ 3" RIGID INSULATION AND BRICK AT EXTERIOR & 5/8" GWB ON MTL STUDS AT INTERIOR
	HALF WALL

KEY MAP



ZDA architecture
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REGISTERED ARCHITECT RICHARD C. ZARATA 12206 STATE OF TEXAS 6-24-2016

CITY OF MISSION, TEXAS FOUNDED IN 1908

MISSION EVENT CENTER

210 N. SHARY RD. MISSION, TX. 78572

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CHECKED	RZ
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

NO	DATE	DESCRIPTION
01	11-16-16	ADDENDUM 1

SHEET TITLE
ENLARGED PARTIAL FLOOR PLAN

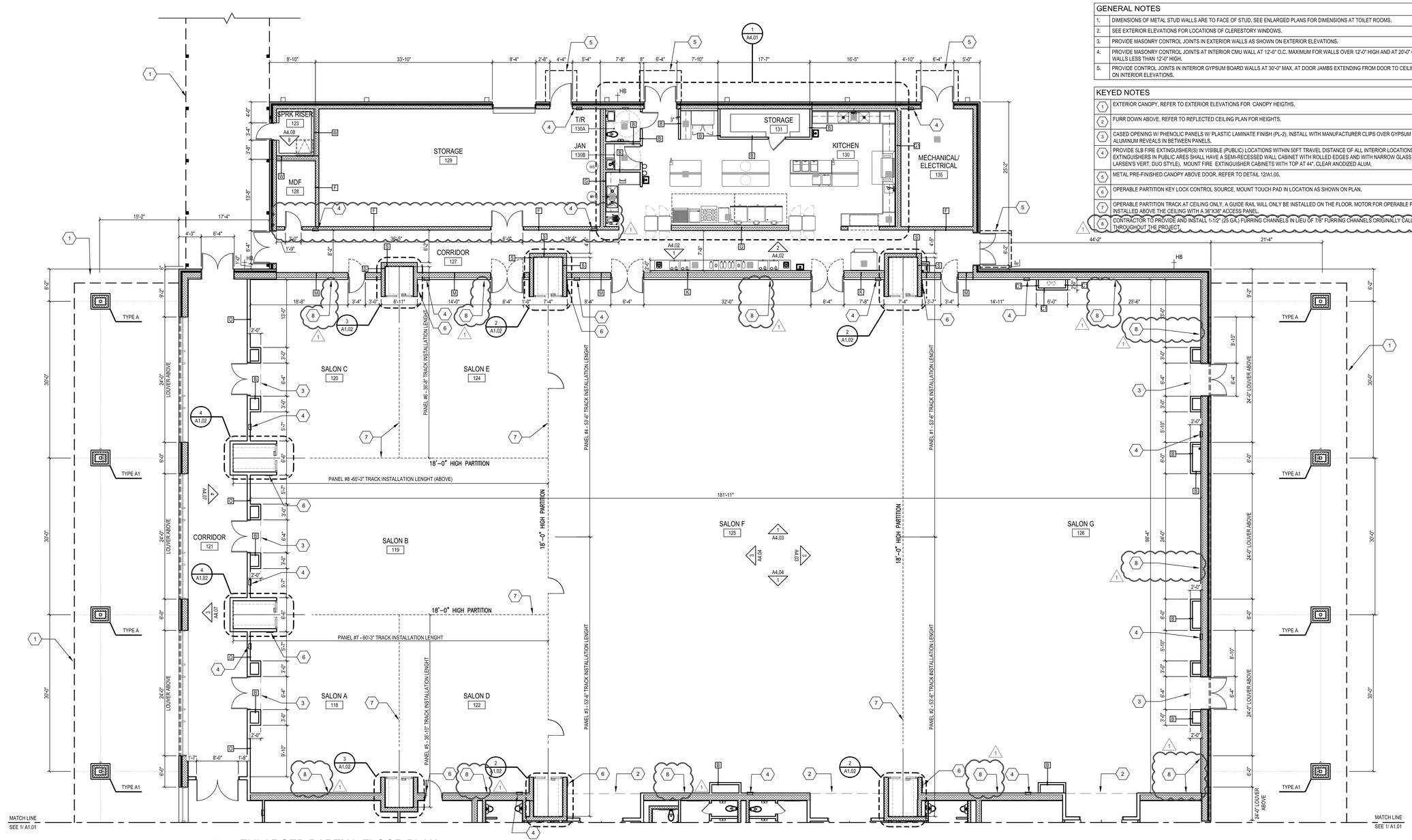
SHEET NO
A1.01

GENERAL NOTES

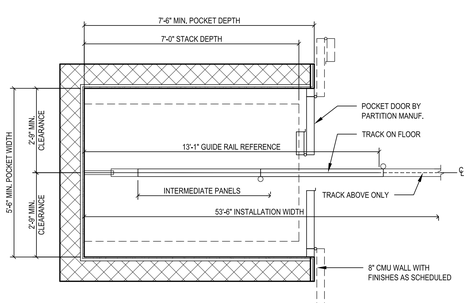
1.	DIMENSIONS OF METAL STUD WALLS ARE TO FACE OF STUD. SEE ENLARGED PLANS FOR DIMENSIONS AT TOILET ROOMS.
2.	SEE EXTERIOR ELEVATIONS FOR LOCATIONS OF CLERESTORY WINDOWS.
3.	PROVIDE MASONRY CONTROL JOINTS IN EXTERIOR WALLS AS SHOWN ON EXTERIOR ELEVATIONS.
4.	PROVIDE MASONRY CONTROL JOINTS AT INTERIOR CMU WALL AT 12'-0" O.C. MAXIMUM FOR WALLS OVER 12'-0" HIGH AND AT 20'-0" O.C. MAXIMUM FOR WALLS LESS THAN 12'-0" HIGH.
5.	PROVIDE CONTROL JOINTS IN INTERIOR GYPSUM BOARD WALLS AT 30'-0" MAX, AT DOOR JAMBS EXTENDING FROM DOOR TO CEILING AND AS SHOWN ON INTERIOR ELEVATIONS.

KEYED NOTES

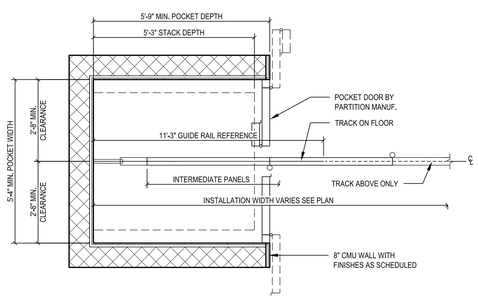
1	EXTERIOR CANOPY, REFER TO EXTERIOR ELEVATIONS FOR CANOPY HEIGTHS.
2	FURR DOWN ABOVE, REFER TO REFLECTED CEILING PLAN FOR HEIGHTS.
3	CASED OPENING W/ PHENOLIC PANELS W/ PLASTIC LAMINATE FINISH (PL-2). INSTALL WITH MANUFACTURER CLIPS OVER GYPSUM BOARD. PROVIDE ALUMINUM REVEALS IN BETWEEN PANELS.
4	PROVIDE 5LB FIRE EXTINGUISHER(S) IN VISIBLE (PUBLIC) LOCATIONS WITHIN 50FT TRAVEL DISTANCE OF ALL INTERIOR LOCATIONS. FIRE EXTINGUISHERS IN PUBLIC ARES SHALL HAVE A SEMI-RECESSED WALL CABINET WITH ROLLED EDGES AND WITH NARROW GLASS (EQUIV. TO LARSEN'S VERT. DUO STYLE). MOUNT FIRE EXTINGUISHER CABINETS WITH TOP AT 44", CLEAR ANODIZED ALUM.
5	METAL PRE-FINISHED CANOPY ABOVE DOOR, REFER TO DETAIL 12/A1.05.
6	OPERABLE PARTITION KEY LOCK CONTROL SOURCE, MOUNT TOUCH PAD IN LOCATION AS SHOWN ON PLAN.
7	OPERABLE PARTITION TRACK AT CEILING ONLY, A GUIDE RAIL WILL ONLY BE INSTALLED ON THE FLOOR. MOTOR FOR OPERABLE PARTITION WILL BE INSTALLED ABOVE THE CEILING WITH A 36"X36" ACCESS PANEL.
8	CONTRACTOR TO PROVIDE AND INSTALL 1-1/2" (25 GA.) FURRING CHANNELS IN LIEU OF 7/8" FURRING CHANNELS ORIGINALLY CALLED FOR; THROUGHOUT THE PROJECT.



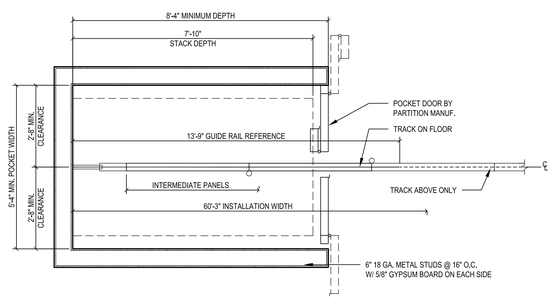
1 ENLARGED PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED PANEL STORAGE PLAN @ PANELS # 1,2,3 & 4
SCALE: 1/2" = 1'-0"



3 ENLARGED PANEL STORAGE PLAN @ PANELS # 5 & 6
SCALE: 1/2" = 1'-0"



4 ENLARGED PANEL STORAGE PLAN @ PANELS # 7 & 8
SCALE: 1/2" = 1'-0"

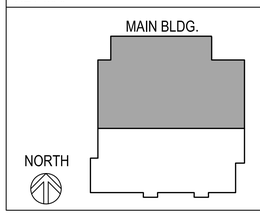
WALL LEGEND

	MTL. STUD WALL W/ 5/8" GWB BOTH SIDES
	CMU WALL
	CMU WALL W/ 5/8" GWB ON MTL. STUDS ON ONE SIDE & PAINTED CMU ON OTHER SIDE
	CMU WALL W/ 5/8" GWB ON MTL. STUDS ON ONE SIDE & 5/8" GWB ON 1-1/2" FURRING CHANNELS ON OTHER SIDE
	CMU WALL W/ 3" RIGID INSULATION AND BRICK AT EXTERIOR & 5/8" GWB ON MTL STUDS AT INTERIOR
	HALF WALL

DRAWING LEGEND

FE	RECESSED FIRE EXTINGUISHER CABINET
	FLOOR DRAIN
HB	RECESSED HOSE BIB
RM NAME XXX	ROOM NUMBER
XXX	DOOR NUMBER REFER TO DOOR SCHEDULE
X	PARTITION TYPE REFER TO PARTITION TYPE SCHEDULE
XXX	CURTAIN WALL TAG REFER TO CURTAIN WALL SCHEDULE
XX	LOUVER TYPE REFER TO LOUVER SCHEDULE

KEY MAP



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ROGER REED ARCHITECT
REGISTERED
12206
STATE OF TEXAS
6 - 24 - 2016

CITY OF MISSION, TEXAS
FOUNDED IN 1908

MISSION EVENT CENTER

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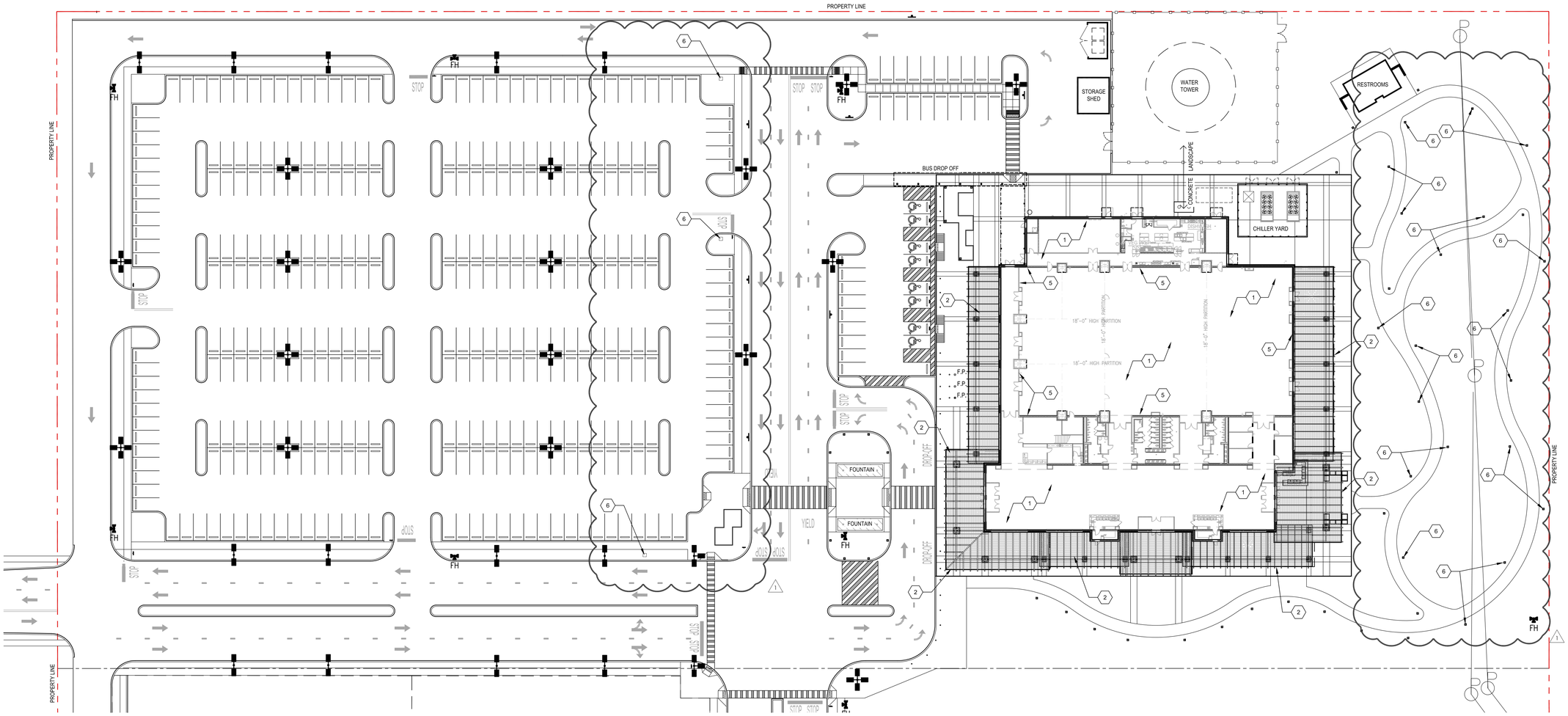
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

NO	DATE	DESCRIPTION
01	11-16-16	ADDENDUM 1

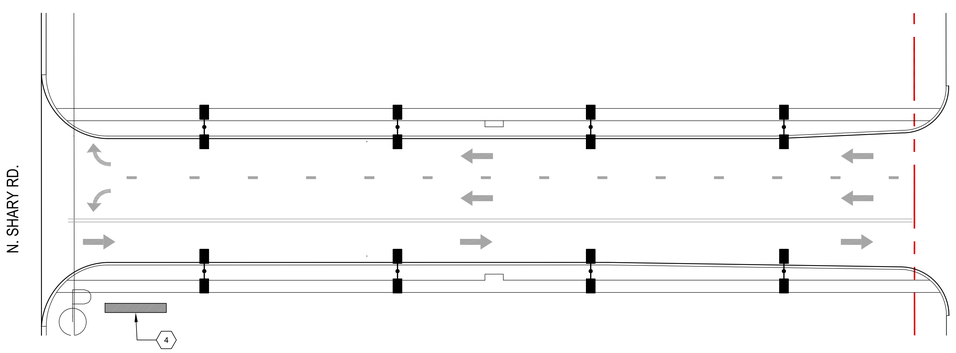
SHEET TITLE
ENLARGED PARTIAL FLOOR PLAN

SHEET NO
A1.02



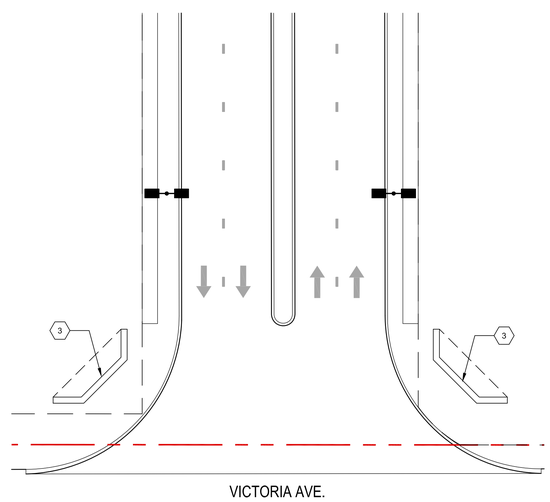
1 OVERALL SITE PLAN

SCALE: 1" = 30'-0"



2 ENLARGED DRIVE

SCALE: 1" = 20'-0"



3 ENLARGED DRIVE

SCALE: 1" = 20'-0"

GENERAL NOTES	
1.	CONTRACTOR SHALL PROVIDE PRICING FOR ALTERNATES AS INDICATED ON DRAWINGS AND SPECIFICATIONS.

ALTERNATES	
1	ALTERNATE #1: INSTALL 3-PLY MODIFIED BITUMEN ROOF OVER RIGID INSULATION. RIGID INSULATION ON ROOF IS PART OF BASE BID. PROVIDE SEPARATE PRICE FOR MATERIALS AND INSTALLATION OF 3-PLY ROOF SYSTEM.
2	ALTERNATE #2: PROVIDE COST FOR IPE WOOD MATERIAL, INSTALLATION, STAINING AND SEALING FOR SOFFIT AT ALL EXTERIOR CANOPIES OVER PATIOS.
3	ALTERNATE #3: CONSTRUCTION OF TWO (2) MONUMENT SIGNS AT BOTH SIDES OF VICTORIA STREET ENTRANCE AS SHOWN ON PLAN. THIS WILL INCLUDE THE FOUNDATION, ELECTRICAL, DATA LINES AND LETTERS FOR THE SIGNS.
4	ALTERNATE #4: PROVIDE AND INSTALL ALUMINUM PYLON SIGN AT N. SHARY RD. ENTRANCE IN LOCATION AS SHOWN ON PLAN. THIS INCLUDES THE CONSTRUCTION OF THE FOUNDATION, ELECTRICAL, DATA LINES AND LETTERS FOR THE SIGN.
5	ALTERNATE #5: PROVIDE AND INSTALL VINYL WALLCOVERING WAINSCOT AT ALL OF THE WALLS ON THE SALON ROOMS. (THIS EXCLUDES THE OPERABLE WALL PARTITIONS). WALLCOVERING BY LEN-TEX ASAP-5005 TYPE II. CONTACT: MDC WALLCOVERING, LAURA LOPSINPEAL 210-355-4411. WOOD CHAIR RAIL AND BASE WILL BE PART OF THE BASE BID.
6	ADDITIONAL ELECTRICAL ACCESS IN THE PARKING LOT AND IN THE GREEN AREA TO THE EAST OF THE BUILDING WILL BE PROVIDED.

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REGISTERED ARCHITECT RAMIRO ZAMAYA 12206 STATE OF TEXAS 8-24-2016

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CHECKED	RZ
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

NO	DATE	DESCRIPTION
01	11-16-16	ADDENDUM 1

SHEET TITLE
OVERALL SITE PLAN W/ ALTERNATES

SHEET NO

ALT0.02

CHANIN
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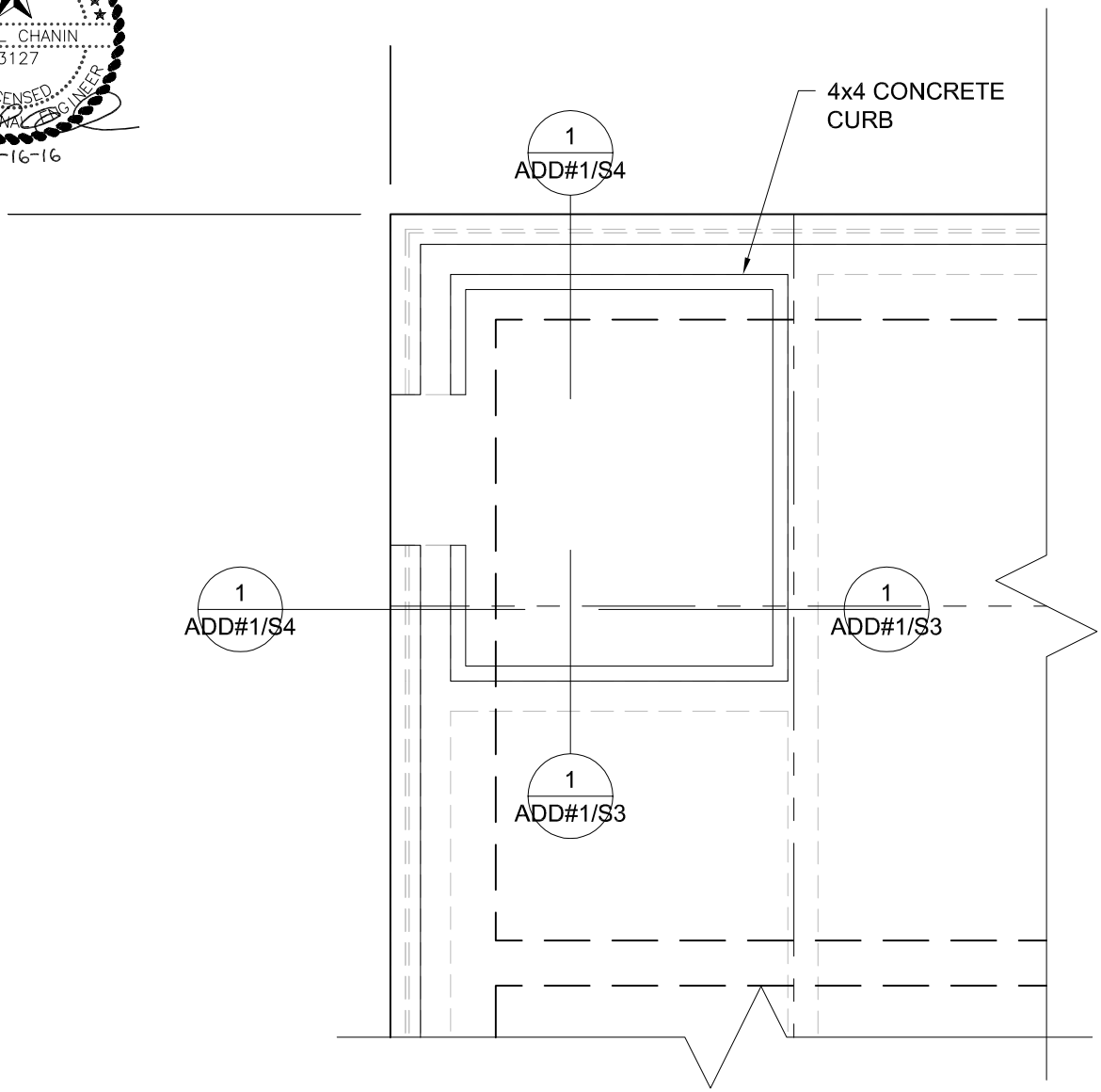
McAllen, Texas 78504
www.chaninengineering.com

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-16-16



1 FOUNDATION PLAN AT FIRE RISE ROOM
SCALE: 1/4"=1'-0"

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210.734.7371
niro@zapata-architecture.com

ADDENDUM NO. 1
MISSION EVENT CENTER
210 N. SHARY RD.
MISSION, TX 78572

DATE
11-16-16

PROJECT NO.
16202

SHEET NO.
ADD#1/S1
1 of 5

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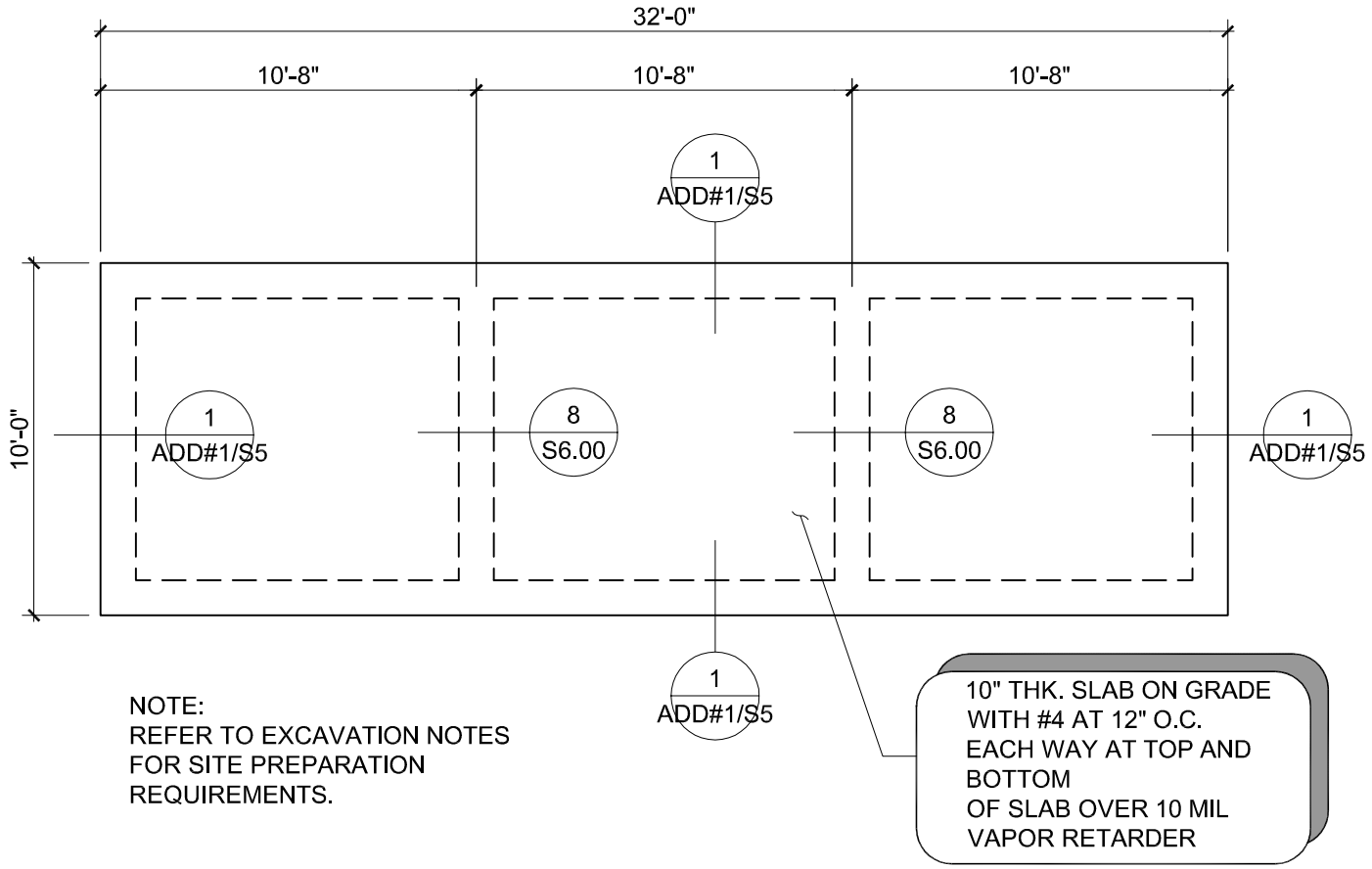

NOTE:
REFER TO EXCAVATION NOTES FOR SITE PREPARATION REQUIREMENTS.

1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

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MISSION, TX 78572

DATE
11-16-16

PROJECT NO.
16202

SHEET NO.
ADD#1/S2
2 of 5

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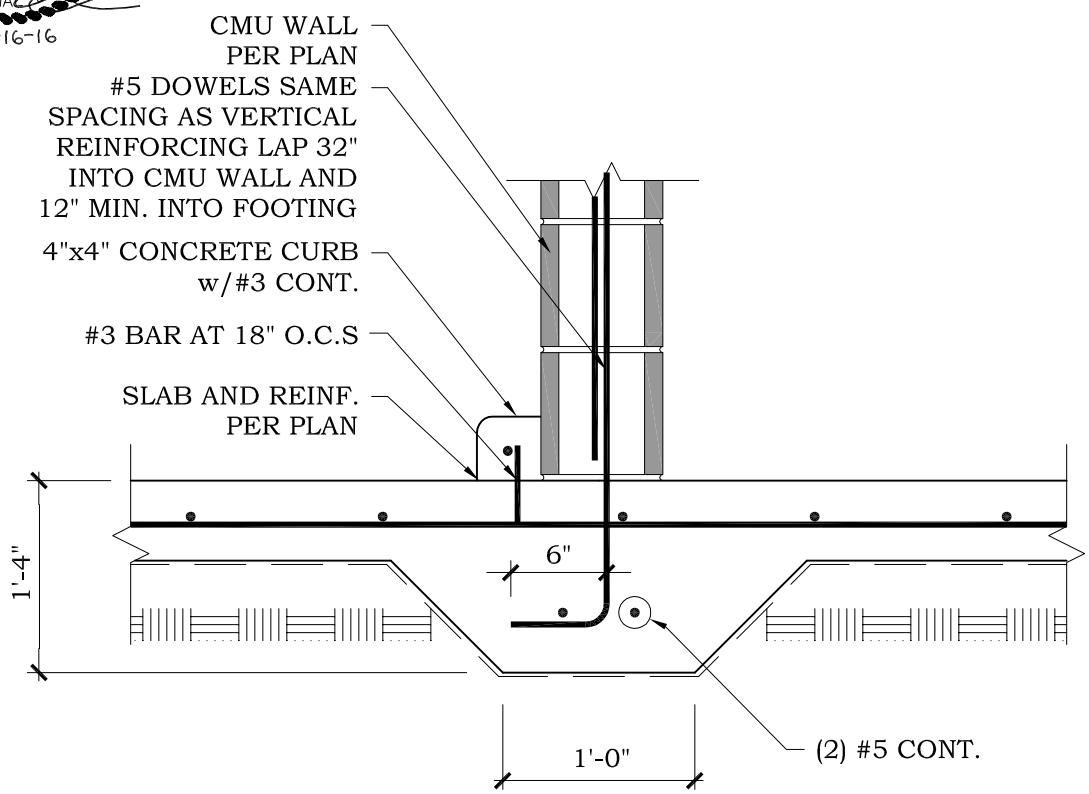

CURB TO RISER ROOM	1

1 THICKENED SAB AT NON BEARING CMU WALL
SCALE:

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ADDENDUM NO. 1
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DATE
11-16-16

PROJECT NO.
16202

SHEET NO.
ADD#1/S3
3 of 5

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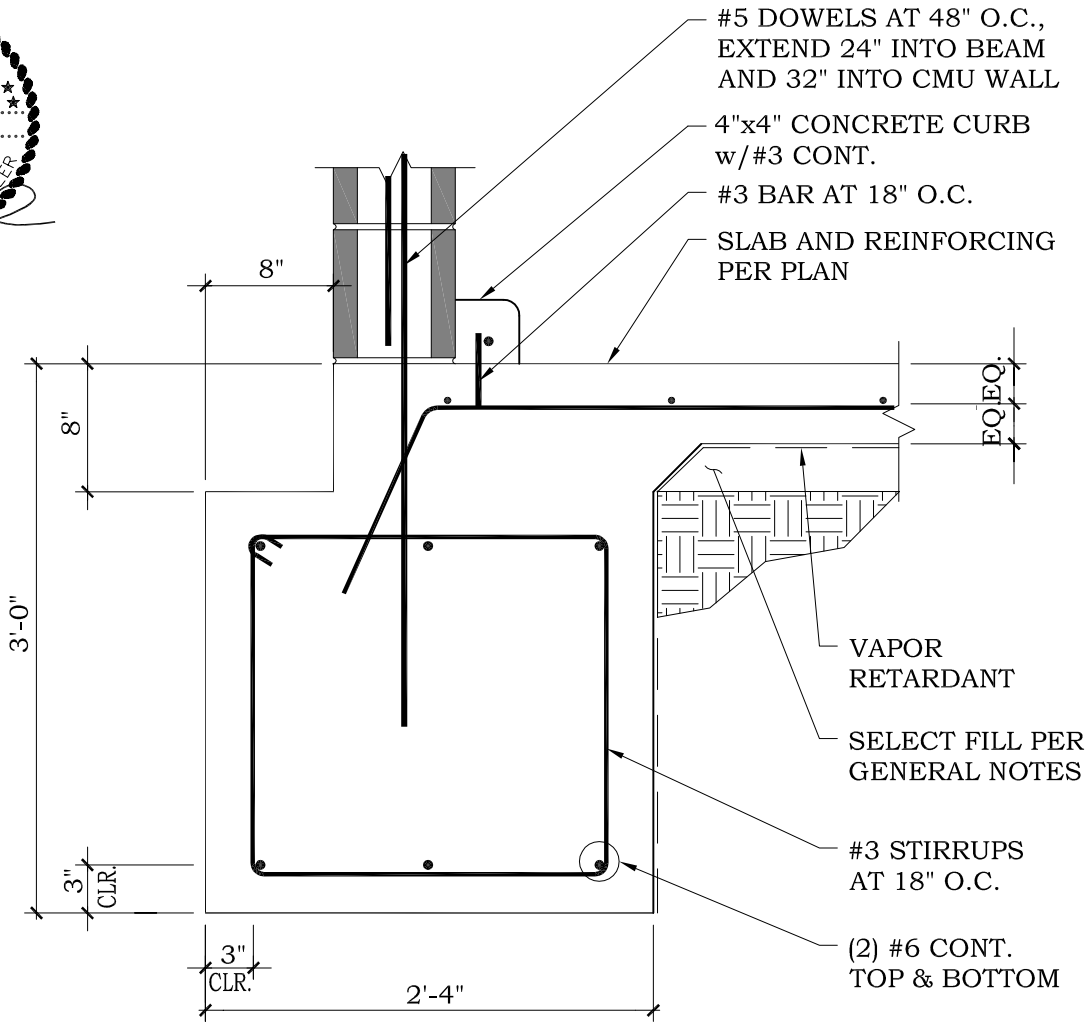

EXTERIOR FOOTING

1

1 EXTERIOR FOOTING DETAIL

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DATE
11-16-16

PROJECT NO.
16202

SHEET NO.
ADD#1/S4
4 of 5

CHANIN
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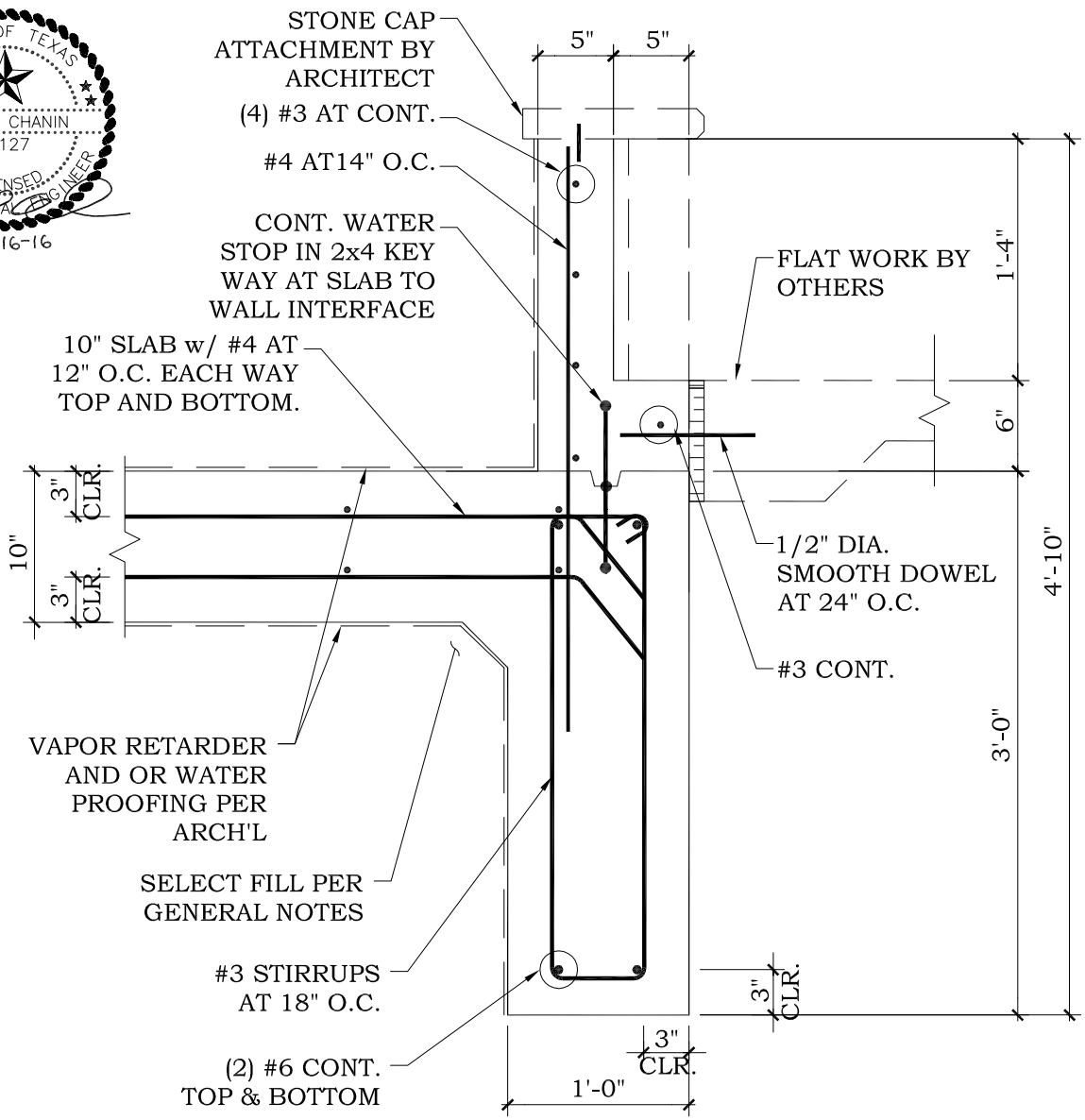

FOUNTAIN DETAIL

1

1 FOUNTAIN DETAIL

ZDA
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2902 N. Flores
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ADDENDUM NO. 1
MISSION EVENT CENTER
210 N. SHARY RD.
MISSION, TX 78572

DATE
11-16-16

PROJECT NO.
16202

SHEET NO.
ADD#1/S5
5 of 5

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS

600 E. Beaumont Suite #2
McAllen, Texas 78501
(956) 664-2727
Fax (956) 664-2726

ADDENDUM #1
Mission Event Center
11.16.2016

The following items shall become a part of the contract documents. Refer to full or partial sheets referenced and make changes noted. Bidders are responsible for reading all sections of the addendum. The Addendum consists of the following:

MECHANICAL

Item 1 Specification Section 233600 – Air Terminal Units: Trane shall be included to the approved manufacturers list for "Shut Off Single Duct Terminal Units" located at section "2.2" of the noted specification.

ELECTRICAL

Item 1 Specification Section 283111 – Digital, Addressable Fire-Alarm System, Fire alarm system shall be full voice evacuation to meet all IFC 2012 and NFPA requirements. It shall be the responsibility of the contractor to meet all codes.

Item 2 Sheet E1.0, Electrical Site Plan, Revised utility company site plan and included allowance for MVEC. Added three electrical service pedestals at parking lot. Added receptacles at bollard locations at trail. Refer to attached drawing.

Item 3 Sheet E1.1, Electrical Lighting Plan, revised circuits for fans, added speakers, and added general note. Refer to attached drawing.

Item 4 Sheet E1.2, Electrical Power Plan, added floor boxes at Lobby/Exhibit Area, removed speakers, and added conduits/panels. Refer to attached drawing.

Item 5 Sheet E2.1, Electrical Riser Diagram & Schedules, added riser diagram for electrical service pedestals and stage panels. Revised transformer and feeder/branch circuit schedule. Refer to attached drawing.

Item 6 Sheet E3.1, Electrical Lighting Fixture Schedule, revised fixture type "S". Refer to attached drawing.

Item 7 Sheet E4.1, Electrical Panel Schedules, revised panel schedules. Refer to attached drawing.

Item 8 Sheet E4.2, Electrical Panel Schedules, revised panel schedules and added stage panels. Refer to attached drawing.

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Fax (956) 664-2726

FIRE PROTECTION

Item 1 Fire protection contractor shall provide and install recessed valve cabinets (total of 3) throughout facility. Refer to attached architectural drawings "A-1", "A-2", and "A-3" for proposed locations. Recessed valve cabinets shall consist of 2-1/2" hose valve with reducer and cap. Installation shall meet City of Mission Fire Marshal requirements.

Item 2 Fire protection contractor shall provide and install horizontal sidewall sprinkler heads for fire protection of proposed exterior canopy located along perimeter of building.

GENERAL NOTES: ( )

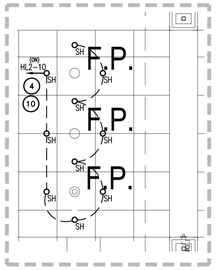
(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) FOR FEEDER / BRANCH CIRCUIT SCHEDULE REFER TO SHEET E2.1, DETAIL D.

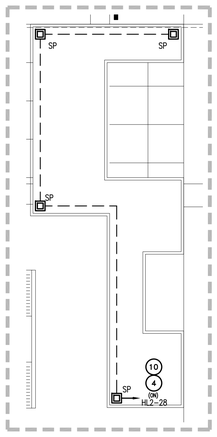
(C) GENERAL CONTRACTOR SHALL INCLUDE $60,000.00 FOR UTILITY COMPANY SERVICE TO SITE (M/EC).

KEYED NOTES:

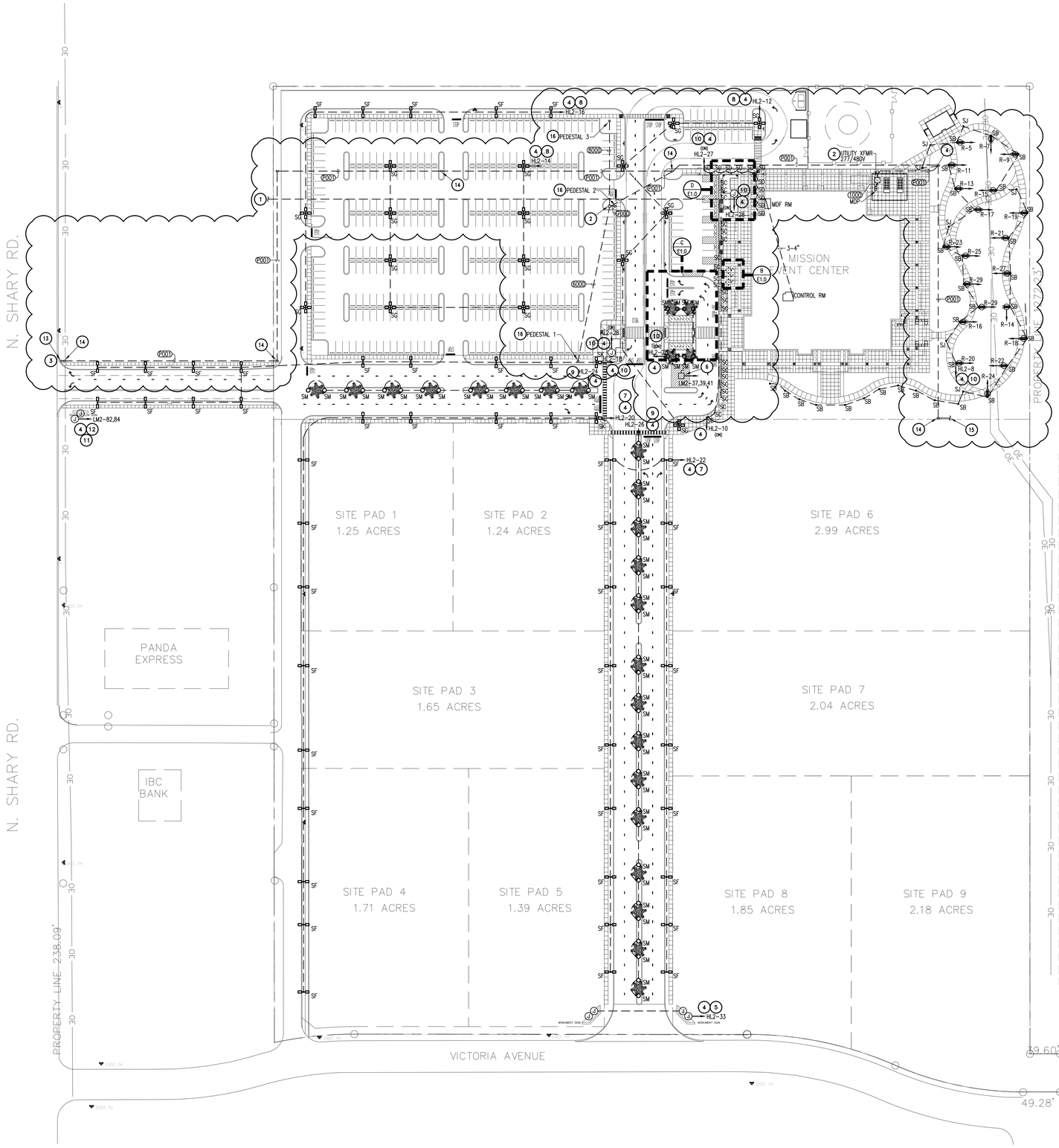
1. FURNISH AND INSTALL 2-4"C FOR ROUTING OF TELEPHONE/CABLE. ROUTE AS DIRECTED BY TELEPHONE/CABLE COMPANY.
2. TRANSFORMER PAD FOR UTILITY COMPANY TRANSFORMER.
3. ROUTE AS DIRECTED BY UTILITY COMPANY.
4. LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.
5. FURNISH AND INSTALL WEATHERPROOF J-BOX FOR CONNECTION OF SIGN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. ROUTE 2#8, #10G, 3/4"C.
6. FURNISH AND INSTALL 60/-/3 NEMA 3R DISCONNECT FOR CONNECTION OF FOUNTAIN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. ROUTE 4#6, #10G, 1"C.
7. ROUTE 2#4, #8G, 1"C.
8. ROUTE 2#6, #10G, 3/4"C.
9. ROUTE 2#8, #10G, 3/4"C.
10. ROUTE 2#10, #10G, 3/4"C.
11. ROUTE 3#3, #8G, 1-3/4"C.
12. FURNISH AND INSTALL WEATHERPROOF J-BOX FOR CONNECTION OF SIGN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. ROUTE 2" CONDUIT FOR CONTROLS TO CONTROL ROOM LOCATED IN BUILDING.
13. UTILITY COMPANY DIP POLE.
14. UTILITY COMPANY PULL BOX. PER UTILITY COMPANY STANDARDS.
15. UTILITY COMPANY SHALL CONTINUE LOOP. NOT PART OF CONTRACT.
16. FURNISH AND INSTALL MILBANK PEDESTAL WITH METER AND BUILT IN GFCI RECEPTACLE. 42 CKT PANEL BOARD INTERIOR. 120/240V, 1ø 200 AMP MCB SERVICE MILBANK PEDESTAL #CP3B1211D. REFER TO RISER DIAGRAM E, SHEET E2.1.



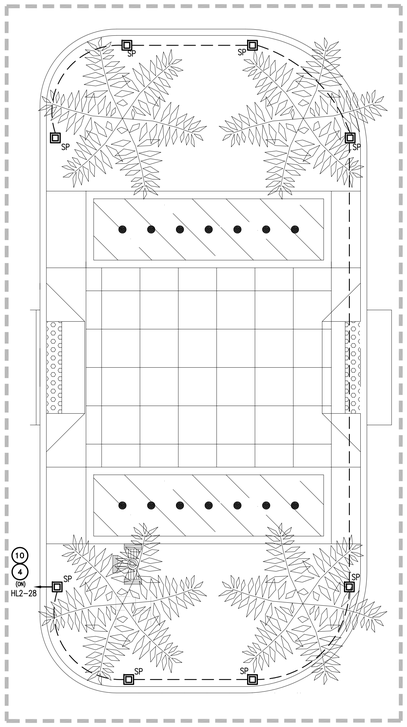
B ENLARGED – ELECTRICAL FLAG POLES
SCALE: 1/8" = 1'-0"



D ENLARGED – ELECTRICAL LIGHTING
SCALE: 1/8" = 1'-0"



A ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"



C ENLARGED – ELECTRICAL LIGHTING
SCALE: 1/8" = 1'-0"

STATE OF TEXAS
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11.16.2016

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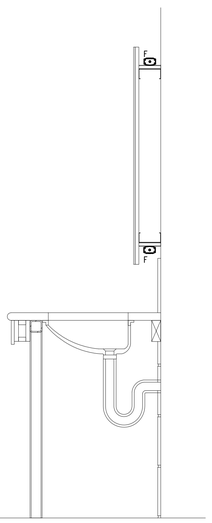
CHECKED	A.D.
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

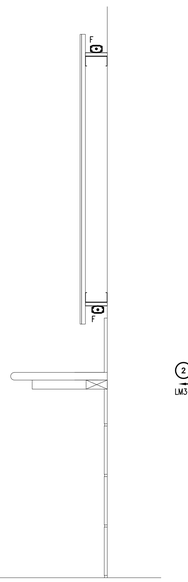
NO	DATE	DESCRIPTION
01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL SITE PLAN

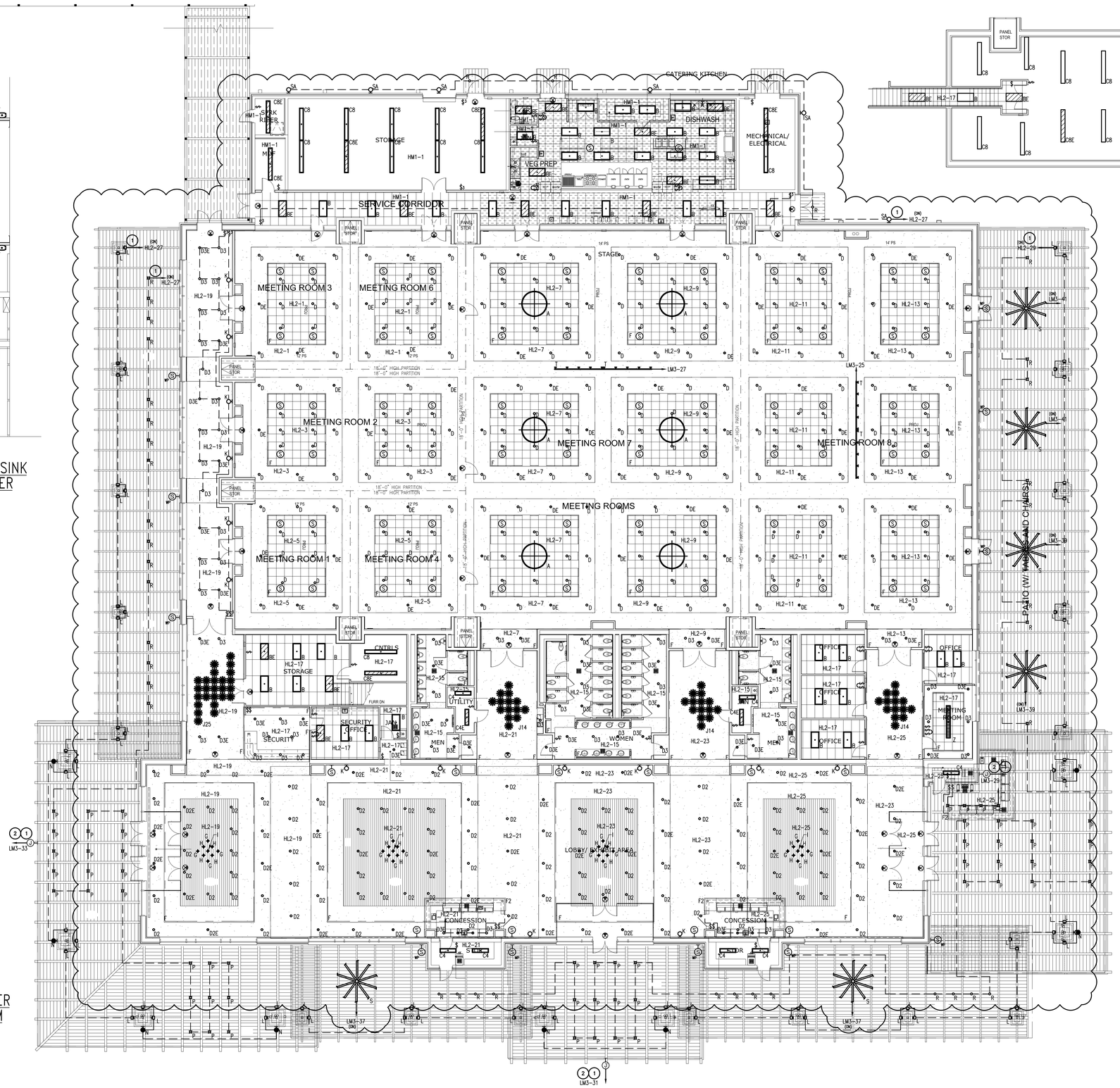
SHEET NO
E1.0

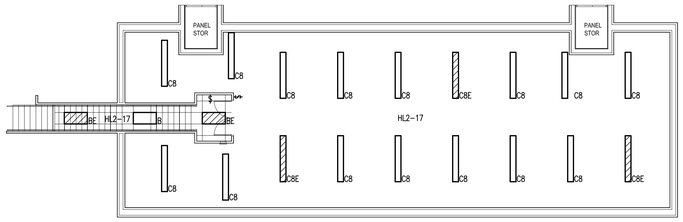


B TYP. SECTION THRU SINK @ RESTROOM COUNTER
SCALE: N.T.S.



C SECTION THRU COUNTER @ WOMEN'S RESTROOM
SCALE: N.T.S.





GENERAL NOTES:

A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

B. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

C. LIGHT FIXTURES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN SPACE.

D. REFERENCE ARCHITECTURAL SHEET FOR TYPICAL DEVICE MOUNTING LOCATIONS. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

F. ALL LIGHTING AND FAN CONDUITS SHALL BE ROUTED TO REDUCE VISIBILITY AT ALL PATIO/CANOPY LOCATIONS. ALL CONDUIT ROUTED TO LIGHTING AT BUILDING COLUMNS SHALL BE ROUTED UNDERGROUND TO REDUCE VISIBILITY.

KEY NOTES:

1. LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.

2. FURNISH AND INSTALL WEATHERPROOF J-BOX FOR CONNECTION OF SIGNAGE. STUB IN 3/4"C FROM J-BOX INTO ATTIC SPACE. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.

A ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 3/32" = 1'-0"

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STATE OF TEXAS · ABRAM L. DOMINGUEZ · 97393 · LICENSED · PROFESSIONAL ENGINEER
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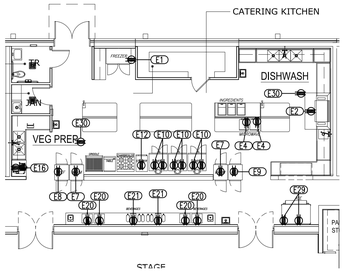
SHEET TITLE
ELECTRICAL LIGHTTING FLOOR PLAN

SHEET NO
E1.1

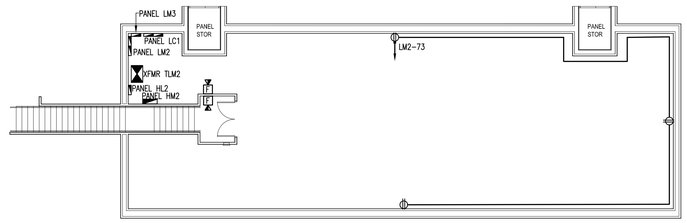
KITCHEN EQUIPMENT CONNECTION SCHEDULE

ITEM #	QTY	EQUIPMENT CATEGORY	POWER SUPPLY	AMPS	DIRECT	PLUG	NEMA	CIRCUIT #	WIRE SIZE	DISCONNECTING MEANS	REMARKS
E1	1	REACH-IN FREEZER	115/1/60	11.0		X	5-15P	LM1-14			
E2	1	DISHWASHER, CONVEYOR TYPE	208/3/60	51.3				LM1-44,46,48 LM1-43			PUMP MOTOR CONVEYOR MOTOR
E4	2	MICROWAVE OVEN	208-240/1/60	13.0		X	6-20P	LM1-50,52/LM1-54,56			
E7	2	PASS-THRU HEATED CABINET	208-115/1/60	7.8				LM1-58,60/LM1-62,64			
E8	1	PASS-THUR REFRIGERATOR	115/1/60	6.1			5-15P	LM1-45			
E9	1	PASS-THUR REFRIGERATOR	115/1/60	6.1			5-15P	LM1-47			
E10	3	CONVENTION OVEN	115/1/60 115/1/60	6.0 6.0				LM1-66/LM1-70/LM1-74 LM1-78/LM1-82/LM1-86			TOP OVEN BOTTOM OVEN
E12	1	CONVENTION STEAMER	240/3/60	79.5				LM1-36,38,40			
E16	1	MEAT SLICER	120/1/60	5.4		X		LM1-49			
E20	4	COFFEE BREWER	120-240/1/60	27.5				LM1-51,53/LM1-55,57 LM1-59,61/LM1-63,65			
E21	2	TEA BREWER	120/1/60	14.4			5-15P	LM1-67/LM1-69			
E22	10	BOTTLR COOLER	115/1/60	8.8		X	5-15P	LM2-15/LM2-17/LM2-19 LM2-4/LM2-6/LM2-8/LM2-12 LM2-14/LM2-16/LM2-18			REFER TO BARS
E23	3	ICE CUBER	115/1/60	14.4				LM2-9/LM2-27/LM2-20			REFER TO BARS
E26	2	COFFEE BREWER	120/1/60	11			5-15P	LM2-22/LM2-24			REFER TO BARS
E29	2	ICE CUBER	115/1/60 208-230/1/60	1.1 40.0				LM1-71 LM1-73,75			REMOTE CONDENSER VOLTAGE
E30	3	EXHAUST HOODS						LM1-19/LM1-21/LM1-23			SEE CAPTIVE AIRE SPECS

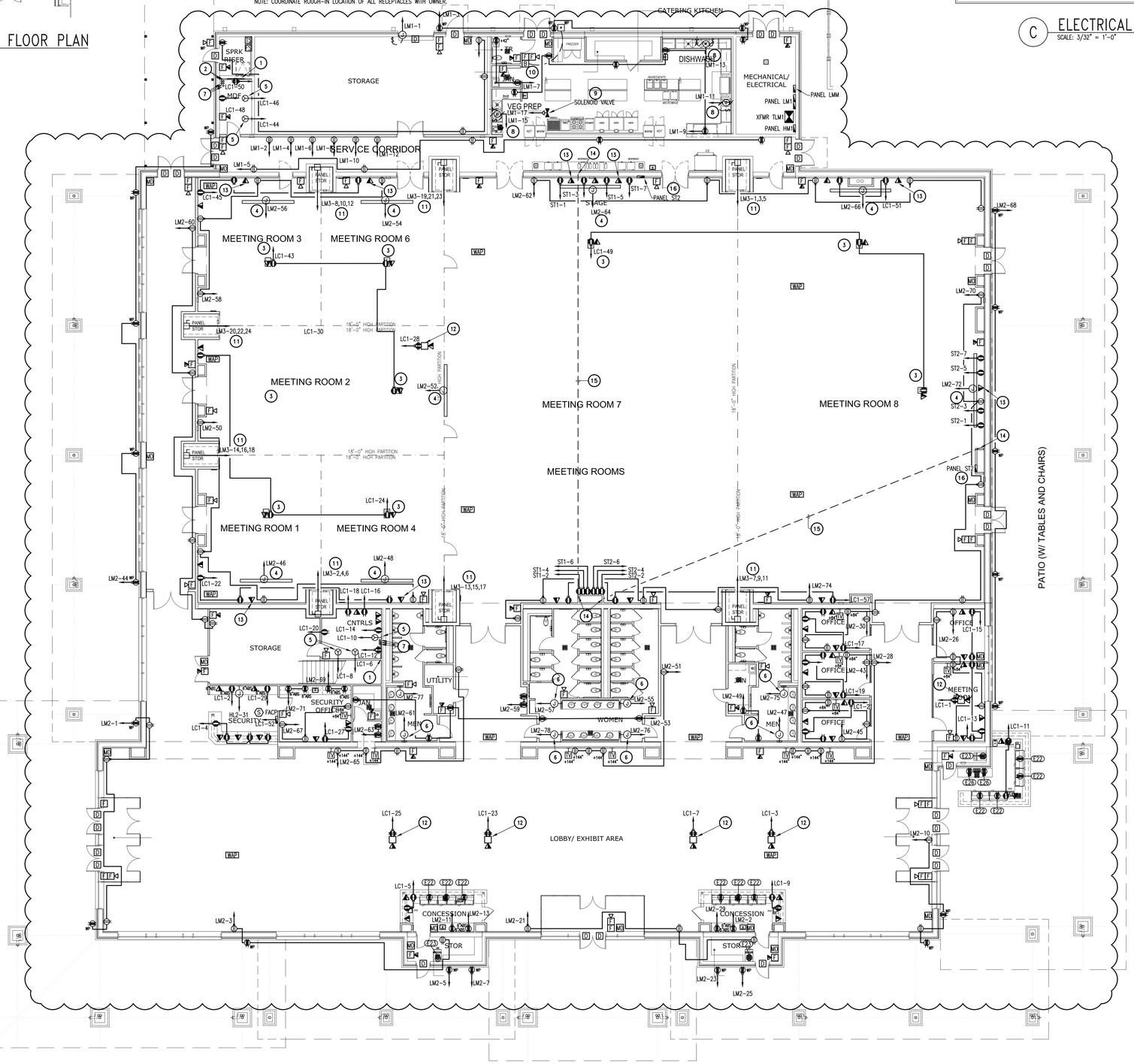
NOTE: COORDINATE ROUGH-IN LOCATION OF ALL RECEPTACLES WITH OWNER.



B ELECTRICAL POWER FLOOR PLAN
SCALE: 3/32" = 1'-0"



C ELECTRICAL POWER FLOOR PLAN
SCALE: 3/32" = 1'-0"



A ELECTRICAL POWER FLOOR PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

A. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

B. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

C. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS & CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

D. ALL RECEPTACLE SHOWN IN KITCHEN AND BAR AREA SHALL BE "GFCI" TYPE.

E. REFER TO ARCHITECTURAL MILLWORK AND ELEVATION PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL WIRING DEVICES.

F. ELECTRICAL CONTRACTOR TO REFER TO MANUFACTURER SPECIFICATIONS OF ALL EQUIPMENT FOR EXACT LOCATION AND FOR THE PROVIDING AND INSTALLATION OF ALL DEVICES, RACEWAYS, WALL BOXES AND WIRING NOT SHOWN ON THIS DRAWING.

G. REFER TO STRUCTURAL DRAWINGS FOR CONDUIT RUNS UP IN JOIST AND SUSPENDING REQUIREMENTS.

H. ELECTRICAL CONTRACTOR TO BRANCH TO CONNECTION WHERE REQUIRED AND TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURE INCLUDING INTER-WIRING TO APPLIANCES AS REQUIRED BY THE SPECIFICATIONS.

I. FURNISH GALVANIZED JUNCTION BOXES IN FIXTURE CUT-OUTS AS REQUIRED BY THE ITEMS SPECIFICATIONS AND INCLUDING APPROPRIATE ELECTRICAL RECEPTACLE, STAINLESS STEEL FACEPLATE.

J. ALL ELECTRICAL OUTLET COVER PLATES IN KITCHEN/BAR AREA SHALL BE STAINLESS STEEL.

K. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL SWITCHES, STARTERS, DISCONNECTS, ETC. FOR ALL EQUIPMENT UNLESS NOTED OTHERWISE. ALL DISCONNECTS OR LOCK-OUT DEVICES, STARTERS, ETC. TO MEET AUTHORITY HAVING JURISDICTION.

L. ALL KITCHEN/BAR EQUIPMENT WIRING DEVICES SHALL BE COORDINATED WITH KITCHEN/BAR EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

M. DO NOT ESTABLISH ROUGH-IN LOCATIONS FROM THIS PLAN. ELECTRICAL CONTRACTOR TO VERIFY EXACT ROUGH-IN LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.

N. THE FOLLOWING RELATED WORK IS TO BE FURNISHED AND INSTALLED BY DIVISION 16 – ELECTRICAL.

- ROUGH-IN AND FINAL CONNECTIONS OF ELECTRICAL SYSTEMS TO FOOD SERVICE EQUIPMENT.
- WIRING TO AND INSTALLATION OF ALL ACCESSORIES FURNISHED LOOSE WITH FOOD SERVICE EQUIPMENT.
- ALL DISCONNECT SWITCHES AS REQUIRED. (NEMA 4X, STAINLESS STEEL WATERPROOF).

O. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING FOR ALL KITCHEN AND BAR EQUIPMENT.

P. CONNECT SHUNT TRIP BREAKERS AND GAS-SHUT OFF VALVE TO FIRE SUPPRESSION SYSTEM.

KEY NOTES:

1. PROVIDE AND INSTALL 4' X 8' X 3/4" PLYWOOD BACKBOARD FOR MOUNTING OF COMMUNICATIONS EQUIPMENT. PROVIDE A FLOOR MOUNTED 3/4" X 4' GROUND BAR FOR TELEPHONE SERVICE. EXTEND #6 AWG FROM GROUND BAR TO MAIN GROUND BUS OF PANEL MDP.
2. FURNISH AND INSTALL 2-4"C FOR ROUTING OF TELEPHONE/CABLE. REFER TO SITE PLAN SHEET E1.0 FOR CONTINUATION.
3. FURNISH AND INSTALL RECEPTACLE AND SINGLE GANG BOX FOR CABLING. AT CEILING LOCATION FOR CONNECTION OF PROJECTOR. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. FOR MOTORIZED PROJECTION SCREEN. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. ROUTE 3 WIRE CONTROL TO SWITCH FURNISHED WITH PROJECTION SCREEN. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
5. FURNISH AND INSTALL L5-30R RECEPTACLE. ROUTE 2#10, #10G, 1/2"C.
6. FURNISH AND INSTALL J-BOX FOR CONNECTION OF HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. ROUTE 2#10, #10G, 1/2"C.
7. FURNISH AND INSTALL 3-4"C FOR ROUTE OF DATA FROM MDF 128 TO IDF 122B.
8. FURNISH AND INSTALL RECEPTACLE FOR CONNECTION OF DISPOSAL. FURNISH AND INSTALL WALL SWITCH AT OWNERS REQUESTED LOCATION. ROUTE 2#12, #12G, 1/2"C.
9. 120V CONNECTION FOR GAS-SHUT OFF VALVE. COORDINATE EXACT LOCATION WITH DIVISION 15.
10. FURNISH AND ISTALL DOOR BELL 12"BELOW CEILING.
11. FURNISH AND ISTALL 30/-/3 DISCONNECT FOR CONNECTION OF MOTORIZED DOORS. ROUTE 4#12, 12G, 1/2"C.
12. FURNISH AND INSTALL HUBBELL SYSTEM ONE RECESSED 10 GANG FLOOR BOX #CFB10CSSRC8 WITH FLOOR BOX COVER #CFBS18BCVRALU. FURNISH WITH TWO SINGLE GANG PLATES #FB10MPDUP WITH DUPLEX RECEPTACLES. FURNISH WITH SINGLE GANG PLATES #FB10MPREC, TWO DOUBLE GANG PLATES #FB10MPMAAP, AND THREE SINGLE GANG PLATES #FB10MPBNK. ROUTE 2" CONDUIT TO CONTROL ROOM.
13. FURNISH AND INSTALL TWO GANG AV WALL BOX HUBBELL #HBL985. FURNISH AND INSTALL HUBBELL #HBL818 2 GANG MUD RING. FURNISH WITH ASSOCIATED FACEPLATE PER AV DRAWINGS.
14. FURNISH AND INSTALL WALL ACCESS PANEL WITH 4" CONDUIT STUB UP.
15. ROUTE 4"C WITH PULL STRING UNDERGROUND FROM ACCESS PANEL TO ACCESS PANEL.
16. FURNISH AND INSTALL TRYSTAR DISTRIBUTION PANEL 120/2P 8V, 3ø, 200 AMP PASS THROUGH ENTERTAINMENT PANEL

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NO	DATE	DESCRIPTION
01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL POWER FLOOR PLAN

SHEET NO
E1.2

ELECTRICAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	2'x4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.
	2'x4' FLUORESCENT LIGHT FIXTURE SWITCHED W/ INBOARD LAMPS ONE SWITCH AND OUTBOARD LAMPS ON ANOTHER	SEE FIX. SCH.
	2'X4' FLUORESCENT FIXTURE W/INBOARD LAMPS ON EMERGENCY CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT	SEE FIX. SCH.
	2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	2'x2' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.
	FLUORESCENT STRIP LIGHT	SEE FIX. SCH.
	1'X4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	TRACK LIGHT	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD.	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.
	INCANDESCENT, FLUORESCENT, OR HID FIXTURE ON EMERGENCY CCT. CLG. OR WALL MTD.	SEE FIX. SCH.
	EXIT LIGHT, CEILING OR WALL MOUNTED – SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED	9" BFC
$	WALL SWITCH SPST, 20A,120/277V	48" AFF
$ 2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF
$ 3	3–WAY WALL SWITCH, 20A,120/277V	48" AFF
$ 4	4–WAY WALL SWITCH, 20A,120/277V	48" AFF
$ D	WALL DIMMER SWITCH	48" AFF
$ K	KEY OPERATED WALL SWITCH	48" AFF
$ P	WALL SWITCH WITH PILOT LIGHT	48" AFF
	SINGLE RECEPTACLE – 20A/125V/2P/3W/G NEMA 5–20R	15" AFF
	DUPLEX RECEPTACLE – 20A/125V/2P/3W/G NEMA 5–20R	15" AFF
	DUPLEX RCPT. SPLIT–WIRED – 20A/125V/2P/3W/G NEMA 5–20R	15" AFF
	DUPLEX RCPT. GFI – 20A/125V/2P/3W/G NEMA 5–20R	15" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF
	ISOLATED GROUND DUPLEX RECEPTACLE – 20A/125V NEMA 5–20R	15" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	15" AFF
	FLOOR MOUNTED DUPLEX RECEPTACLE – FLUSH MOUNTED UNO	–
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	15" AFF
J	JUNCTION BOX – SIZE & MOUNTING AS REQUIRED	AS REQD.
	MULTIOUTLET ASSEMBLY – LENGTH AND OUTLET SPACING AS INDICATED	AS NOTED
	TELEPHONE/DATA OUTLET. WALL MOUNTED – STUB 1" C. ABOVE CEILING FROM OUTLET BOX	15" AFF
	FLOOR MOUNTED DATA/TELEPHONE OUTLET – FLUSH MOUNTED UNO	–
TV	TELEVISION OUTLET. CLG. OR WALL MOUNTED – STUB .3/4" C. ABOVE CEILING FROM OUTLET BOX	15" AFF
	PUSHBUTTON	48" AFF
	CLOCK HANGER OUTLET 15A/125V/2P/3W/G RECEPTACLE	96" AFF
WAP	WIRELESS ACCESS PIONT	–
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL	80" AFF
F	FIRE ALARM VISUAL SIGNAL	80" AFF
S	SPEAKER VOICE EVAC SYSTEM	80" AFF
EVAC	VOICE EVAC SYSTEM	–

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
FS	FIRE ALARM SPRINKLER FLOW SWITCH	–
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	–
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	–
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	–
S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
H	HEAT DETECTOR CEILING OR WALL MOUNTED	–
D	DUCT SMOKE DETECTOR	–
	SMOKE DOOR HOLDER	–
FACP	FIRE ALARM CONTROL PANEL	–
FAAP	FIRE ALARM ANNUNCIATOR PANEL	–
S	P.A. SPEAKER, CEILING OR WALL MOUNTED	9" BFC
M	MICROPHONE OUTLET	–
30/–/3	DISCONNECT SWITCH – 30/–/3 INDICATES 30A, 3–POLE, NONFUSED; 30/30/3 INDICATES 30A, 3–POLE, 30A FUSE	AS REQD.
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH – THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.
30/30/3	DISCONNECT SWITCH – 30/30/3 INDICATES 30A, 3–POLE, 30A FUSE	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.
CB 2	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.
	MOTOR	–
	PANELBOARD	–
	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 1/2"C. 20A/1P CB UNO)	–
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	–
X/X/X	MULTI–POLE DEVICE CIRCUIT NUMBERS	–
MD	MOTION DETECTOR, CEILING OR WALL MOUNTED	–
DH	DOOR HOLDER– REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOOR ROUGH–IN REQUIREMENTS.	–
C	CHIME/STROBE	80"AFF
B	BELL/BUZZ	48"AFF
G	GLASS BREAK MOTION SENSOR	–
D	DOOR CONTACTS	–
K	KEYPAD	48"AFF
	CAMERA	–
CR	CARD READER – REFER TO DISCRIPTION IN DOOR HARDWARE SPECIFICATION SECTION.	48"AFF

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
BFC	BELOW FINISHED CEILING	NO (N.O.)	NORMALLY OPEN
C	CONDUIT	RCPT(S)	RECEPTACLE(S)
CB	CIRCUIT BREAKER	PNL	PANEL
EC	EMPTY CONDUIT	SO (S.O.)	SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	ST (S.T.)	SHUNT TRIP
G	GROUND (EQUIPMENT)	SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	UF	UNDERFLOOR
IC	INTERRUPTING CAPACITY	UG	UNDERGROUND
IG	ISOLATED GROUND	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
NC (N.C.)	NORMALLY CLOSED	WP	WEATHERPROOF
NF	NONFUSED	XFMR	TRANSFORMER
NIC	NOT IN CONTRACT		

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE;
   15" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

A ELECTRICAL LEGEND
SCALE: N.T.S.

TRANSFORMER SCHEDULE

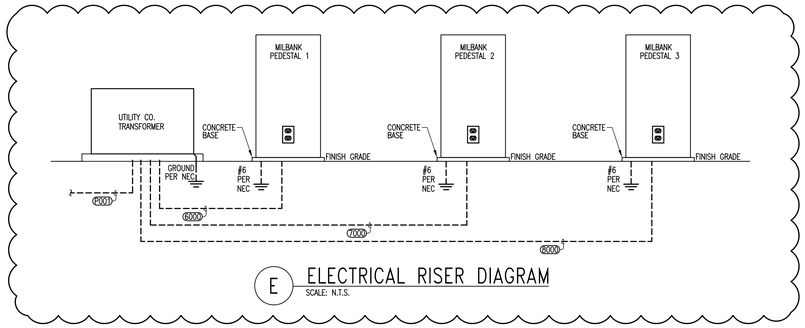
MARK	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	GROUNDING ELECTRODE	REMARKS
XFMR–TLCP	112–1/2	480V DELTA	208Y/120 GND WYE	#1/0	
XFMR–TLM1	112–1/2	480V DELTA	208Y/120 GND WYE	#1/0	
XFMR–TLM2	150	480V DELTA	208Y/120 GND WYE	#1/0	

C ELECTRICAL TRANSFORMER SCHEDULE
SCALE: N.T.S.

FEEDER / BRANCH CIRCUIT SCHEDULE

MARK	RACEWAY	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS	REMARKS
P001	4"	----	----	----	----
1000	4"	3–600KCMIL	1–600KCMIL	1#4/0	FOUR PARALLEL FEEDERS REQUIRED
2000	2"	3#3/0	1#3/0	1#3	TWO PARALLEL FEEDERS REQUIRED
2001	2"	3#4/0	----	1#4	----
2002	2"	3#3/0	1#3/0	1#3	TWO PARALLEL FEEDERS REQUIRED
2003	1 1/2"	3#3	1#3	1#8	----
3000	2 1/2"	3–250KCMIL	1–250KCMIL	1#2/0	FOUR PARALLEL FEEDERS REQUIRED
3001	2 1/2"	3#4/0	1#4/0	1#4	----
3002	2"	3–250KCMIL	----	1#4	----
3003	2 1/2"	3#4/0	1#4/0	1#2	TWO PARALLEL FEEDERS REQUIRED
3004	2 1/2"	3#4/0	1#4/0	1#4	----
3005	1 1/2"	3#2	1#3/0	1#8	----
4000	2"	3#3/0	1#3/0	1#6	----
5000	1 1/2"	3#4	1#4	1#8	----
6000	2"	2#3/0	1#3/0	1#6	----
7000	2"	2#3/0	1#3/0	1#6	----
8000	2"	2#3/0	1#3/0	1#6	----
9000	2 1/2"	3#4/0	2#4/0	1#4	----
9001	2 1/2"	3#4/0	2#4/0	1#4	----

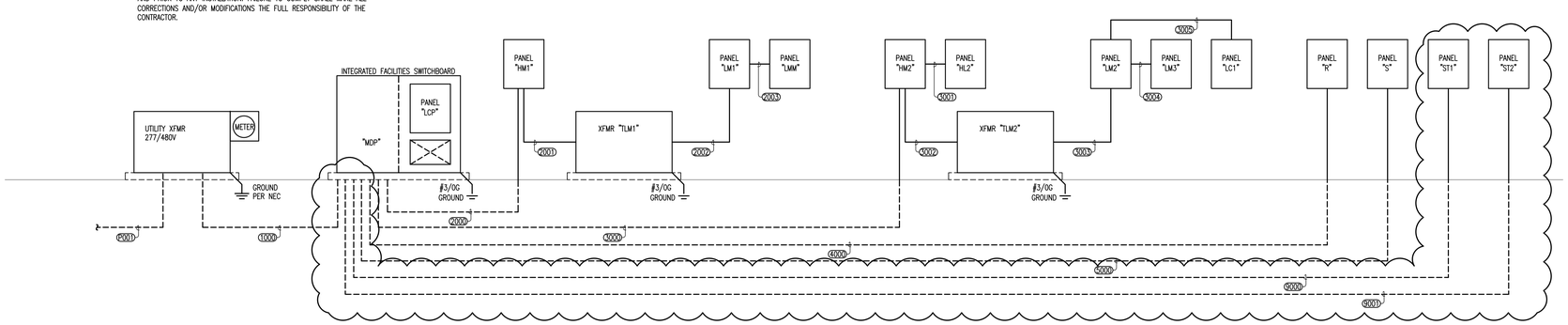
D ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE
SCALE: N.T.S.



E ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



B ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
11.16.2016

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CHECKED	A.D.
PROJECT NO	2016-01
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NO	DATE	DESCRIPTION
01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL LEGEND, RISER DIAGRAM & SCHEDULES

SHEET NO
E2.1

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
A	60" TWO TONED DOUBLE SHADE PENDANT DOUBLE DRUM TWO TONED COLOR SHADE AS SELECTED BY ARCHITECT 3 CABLES TO CENTER STEM	VISION QUEST #BE062-2X-SHADE-PENDANT	LED 3000K 40	120	
B	2X4 RECESSED ACRYLIC LENS .125" PATTERN 12	LSI #GA24 LED SS WW UE P12	LED 3500K 45	120/277	
BE	2X4 RECESSED ACRYLIC LENS .125" PATTERN 12 EMERGENCY BATTERY PACK	LSI #GA24 LED SS WW UE P12 EM	LED 3500K 45	120/277	
C4	4' STRIP WITH WIRE GUARD	LSI #S 2 32 SS010 UE WG 240	2-F32T8 3500K 65	120/277	
C4E	4' STRIP WITH WIRE GUARD EMERGENCY BATTERY PACK	LSI #S 2 32 SS010 UE WG 240 EM	2-F32T8 3500K 65	120/277	
C8	8' STRIP WITH WIRE GUARD	LSI #S 2 32 SS010 UE WG 240	4-F32T8 3500K 130	120/277	
C8E	8' STRIP WITH WIRE GUARD EMERGENCY BATTERY PACK	LSI #S 2 32 SS010 UE WG 240 EM	4-F32T8 3500K 130	120/277	
D	6" RECESSED DOWNLIGHT MEDIUM BEAM CLEAR REFLECTOR	CONTECH #R6NC630K27D-C6322M-CLR	LED 3000K 43	277	
DE	6" RECESSED DOWNLIGHT MEDIUM BEAM CLEAR REFLECTOR EMERGENCY BATTERY PACK	CONTECH #R6NC630K27DER-C6322M-CLR	LED 3000K 43	277	
D2	6" RECESSED DOWNLIGHT NARROW BEAM CLEAR REFLECTOR	CONTECH #R6NC630K27D-C6322N-CLR	LED 3000K 43	277	
D2E	6" RECESSED DOWNLIGHT NARROW BEAM CLEAR REFLECTOR EMERGENCY BATTERY PACK	CONTECH #R6NC630K27DER-C6322N-CLR	LED 3000K 43	277	
D3	6" RECESSED DOWNLIGHT MEDIUM BEAM CLEAR REFLECTOR	CONTECH #R6NC230K27D-C6322M-CLR	LED 3000K 14	277	
D3E	6" RECESSED DOWNLIGHT MEDIUM BEAM CLEAR REFLECTOR EMERGENCY BATTERY PACK	CONTECH #R6NC230K27DER-C6322M-CLR	LED 3000K 14	277	
F	LED COVE LIGHT, LENGTH AS INDICATED ON DRAWINGS FURNISH WITH MOUNTING CHANNEL AND ASSOCIATED TERMINATING OPTIONS	JESCO #DL-AC-FLEX-30	LED 3000K 5W/FT	120	
F2	RGB LED LIGHT, LENGTH AS INDICATED ON DRAWINGS FURNISH WITH MOUNTING CHANNEL AND ASSOCIATED TERMINATING OPTIONS	JESCO #DL-FLEX-WET-RGB	RGB LED 5W/FT	120	
G	24" PENDANT, WHITE ACRYLIC DIFFUSER ALUMINUM & STEEL CONSTRUCTION FINISH AS SELECTED BY ARCHITECT	TMS LIGHTING #CUS33292-24	LED 4000K 24	120/277	
H	48" PENDANT, WHITE ACRYLIC DIFFUSER ALUMINUM & STEEL CONSTRUCTION FINISH AS SELECTED BY ARCHITECT	TMS LIGHTING #CUS33292-48	LED 4000K 48	120/277	
I	72" PENDANT, WHITE ACRYLIC DIFFUSER ALUMINUM & STEEL CONSTRUCTION FINISH AS SELECTED BY ARCHITECT	TMS LIGHTING #CUS33292-72	LED 4000K 72	120/277	
J14	14 BEAUTY SPOTS CHROME FINISH FUNISH WITH ELECTRONIC TRANSFORMER	WAC LIGHTING #DR-LED302-30-CH	LED 3000K 70	120	
J25	25 BEAUTY SPOTS CHROME FINISH FUNISH WITH ELECTRONIC TRANSFORMER	WAC LIGHTING #DR-LED302-30-CH	LED 3000K 125	120	
K	WALL MOUNTED SCONCE MANHATTAN FINISH AS SELECTED BY ARCHITECT	WAC LIGHTING #WS-13122-XX	LED 3000K 50	120/277	
L	MOVIT SQUARE LARGE REMOTE LED ASYMMETRICAL OPTICS FURNISH WITH REMOTE POWER SUPPLY FINISH AS SELECTED BY ARCHITECT	SISTEMALUX #S.3070W-X-4546-0024-200-2C-UNV-ND	LED 3000K 46	120/277	

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
M	1X4 IMPACT RESISTANT LIGHT	ILP #WT 30WLED UNIV 50 RAFL	LED 5000K 30	120/277	
ME	1X4 VANDAL RESISTANT LIGHT EMERGENCY BATTERY PACK	ILP #WT 30WLED UNIV 50 RAFL FI/ILBCP12	LED 5000K 30	120/277	
N	TUCORE WALL LUMINAIRE FINISH AS SELECTED BY ARCHITECT	TMS LIGHTING #TUW-0-33-30LED=30K=277-XX	LED 3000K 30	277	
P	6" EXTERIOR CYLINDER NARROW BEAM CLEAR REFLECTOR COLOR AS SELECTED BY ARCHITECT	CONTECH #CYL6330MVDCXMCLR	LED 3000K 20	120/277	
R	6" EXTERIOR CYLINDER MEDIUM BEAM CLEAR REFLECTOR COLOR AS SELECTED BY ARCHITECT	CONTECH #CYL6230MVDCXMCLR	LED 3000K 14	120/277	
S	8" ESSENCE HVLS FAN FURNISH WITH ASSOCIATED CONTROLLER	BAS #ESSENCE 8'	NO LIGHT 684	277	
X	ADJUSTABLE EDGE LIT EXIT SIGN GREEN LETTERING	CONTEMP #REXANXGEMC-XX	LED 3	120/277	
T	12' TRACK LIGHT	ALLOWANCE $5,000.00	LED 500	120	
Z	8" LOUVERED LED PENDANT 80% DOWN/20% UPLIGHT PARABOLIC LOUVER COLOR AS SELECTED BY ARCHITECT	LSI #HRZ 8 LED 20/80 PL HO 30 S	LED 3000K 44	120/277	
SA	SLIM LED WALL SCONCE DOWNLIGHT, EMERGENCY BATTERY PACK FINISH AS SELECTED BY ARCHITECT	RAYON #T228LED-DL-DL-18-UNI12-30-XX-EM	LED 3000K 18	120/277	
SB	36" TALL RINCON BOLLARD SHIELD DESIGN PER ARCHITECT	FORMS-SURFACES #LBRIN-LED	LED 3000K 14	120/277	
SC	40" TALL IWAY BOLLARD GRAY FINISH	IGUZZINI #LBW79-UNV-15	LED 3000K 25	120/277	
SD	4' DIRECT SURFACE MOUNTED LUMINAIRE WITH SATIN LENS SHIELDING	FORUM #SAD-34-65/30LED-SAT-S-4-UNV-D10V-WET	LED 3000K 50	120/277	
SF	DUAL HEAD AREA LIGHT MOUNTED MOUNTED ON 25' POLE D180 TYPE 3 DISTRIBUTION	LSI #XASU-3-LED-64-HO-NW-UE/25' POLE D180	LED 4000K 176	120/277	
SG	FOUR HEAD AREA LIGHT MOUNTED MOUNTED ON 25' POLE D180 TYPE 3 DISTRIBUTION	LSI #XASU-3-LED-64-HO-NW-UE/25' POLE D180	LED 4000K 352	120/277	
SH	TESIS IN-GROUND LUMINAIRE RECESSED HOUSING POLYMER	ERCO #33640.000	LED 4000K 20	120/277	
SJ	9.75' TALL AREA LIGHT WHITE FROSTED ACRYLIC LENS	FORMS SURFACES #LPRIN-LED	LED 3000K 30	120/277	
SK	THREE HEAD AREA LIGHT MOUNTED MOUNTED ON 25' POLE TYPE 3 DISTRIBUTION	LSI #XASU-3-LED-64-HO-NW-UE/25' POLE D180	LED 4000K 264	277	
SM	PALM LIGHTS	VISTA #1043 750MA	LED 10	120/277	
SP	RINCON PATHWAY BOLLARD	FORMS SURFACES #LBRNP-LED	LED 3000K 10	120/277	
SQ	165' RGB LINEAR LED WALL WASHERS FURNISH DMX CONTROLLER IN CONTROL ROOM	JESCO #WW2-HW-SXX RGB 20-XX	RGB LED 1650	277	
SR	RGB LED WALL WASHERS FURNISH DMX CONTROLLER IN CONTROL ROOM	JESCO #WW2-HW-R8-277-RGB	RGB LED 40	277	

A ELECTRICAL LIGHTING FIXTURE SCHEDULE
SCALE: N.T.S.

STATE OF TEXAS
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REVISIONS

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01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL SCHEDULES

SHEET NO
E3.1

PANELBOARD MDP

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: INTEGRATED SWITCHBOARD
1600 AMP (100% RATED) MAIN CIRCUIT BREAKER; LSIA; EATON IQ 260 ELECTRONIC POWER METER; SPD SWITCHBOARD (250KA/MODE) — MOUNTING: SURFACE NEMA 3R
BUSES: MAIN – 1600 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 65,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		59195	CH-1	300/3	1	A	2	400/3	PANEL HM1	3350	360	79784
		59195	*	–	3	B	4	–	*		1620	81665
		59195	*	–	5	C	6	–	*		1080	76044
		59195	CH-2	300/3	7	A	8	1000/3	PANEL HM2	24488	12060	158634
		59195	*	–	9	B	10	–	*	21567	10980	165798
		59195	*	–	11	C	12	–	*	22351	5760	166722
		3880	CHWP-1	25/3	13	A	14	225/3	SPACE & BUS			
		3880	*	–	15	B	16	–	*			
		3880	*	–	17	C	18	–	*			
		3880	CHWP-2	25/3	19	A	20	225/3	SPACE & BUS			
		3880	*	–	21	B	22	–	*			
		3880	*	–	23	C	24	–	*			
			SPARE	20/1	25	A	26	20/1	SPACE			
			SPARE	20/1	27	B	28	20/1	SPACE			
			SPARE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SURGE PROTECTIVE DEVICE	60/3	37	A	38	250/3	PANEL LCP	960	1800	34920
			*	–	39	B	40	–	*	360	1080	34170
			*	–	41	C	42	–	*		720	36170

VA:L (LIGHTING) 73076 CONNECTED 31745 DEMAND
VA:R (RECEPTACLES) 35460 CONNECTED 22730 DEMAND
VA:O (OTHER) 1212357 CONNECTED 1212357 DEMAND
VA: TOTAL 1320893 CONNECTED 1326432 DEMAND
AMPS: TOTAL 1589 CONNECTED 1595 DEMAND

L	R	O	TOTAL			
28798	14220	399488	VA CONNECTED TO A PHASE	442506	VA =	1597 AMPS CONNECTED TO A PHASE @ 277 VOLTS
21927	13680	407783	VA CONNECTED TO B PHASE	443390	VA =	1601 AMPS CONNECTED TO B PHASE @ 277 VOLTS
22351	7560	405086	VA CONNECTED TO C PHASE	434997	VA =	1570 AMPS CONNECTED TO C PHASE @ 277 VOLTS
73076	35460	1212357	TOTAL	1320893	VA	

PANELBOARD LCP

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: INTEGRATED SWITCHBOARD
400 A MAIN CIRCUIT BREAKER — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		500	HVAC CONTROL CIRCUIT	20/1	1	A	2	200/3	PANEL R	600	1080	10500
		500	HVAC CONTROL CIRCUIT	20/1	3	B	4	–	*	216	1080	11250
	720		RECEPTACLES	20/1	5	C	6	–	*			14250
			SPARE	20/1	7	A	8	60/3	PANEL P	360	720	2520
			SPARE	20/1	9	B	10	–	*	144		2420
			SPARE	20/1	11	C	12	–	*			1920
			SPARE	20/1	13	A	14	20/1	SPARE			
			SPARE	20/1	15	B	16	20/1	SPARE			
			SPARE	20/1	17	C	18	20/1	SPARE			
			SPACE	20/1	19	A	20	20/1	SPACE			
			SPACE	20/1	21	B	22	20/1	SPACE			
			SPACE	20/1	23	C	24	20/1	SPACE			
			SPACE	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	200/3	PANEL ST1			11000
			SPACE	20/1	33	B	34	–	*			10000
			SPACE	20/1	35	C	36	–	*			10000
			SPACE	20/1	37	A	38	200/3	PANEL ST2			11000
			SPACE	20/1	39	B	40	–	*			10000
			SPACE	20/1	41	C	42	–	*			10000

VA:L (LIGHTING) 1320 CONNECTED 1660 DEMAND
VA:R (RECEPTACLES) 3600 CONNECTED 3600 DEMAND
VA:O (OTHER) 105260 CONNECTED 105260 DEMAND
VA: TOTAL 110180 CONNECTED 110510 DEMAND
AMPS: TOTAL 306 CONNECTED 307 DEMAND

L	R	O	TOTAL			
960	1800	34920	VA CONNECTED TO A PHASE	37680	VA =	314 AMPS CONNECTED TO A PHASE @ 120 VOLTS
360	1080	34170	VA CONNECTED TO B PHASE	35610	VA =	297 AMPS CONNECTED TO B PHASE @ 120 VOLTS
	720	36170	VA CONNECTED TO C PHASE	36890	VA =	307 AMPS CONNECTED TO C PHASE @ 120 VOLTS
1320	3600	105260	TOTAL	110180	VA	

PANELBOARD HM1

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
400 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 35,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
3350			LIGHTING	20/1	1	A	2	40/3	AHU-A			5820
			SPARE	20/1	3	B	4	–	*			5820
			SPARE	20/1	5	C	6	–	*			5820
			SPARE	20/1	7	A	8	80/3	EDH-A			16000
			SPARE	20/1	9	B	10	–	*			16000
			SPARE	20/1	11	C	12	–	*			16000
			SPARE	20/1	13	A	14	30/3	SDB-1A/2A/3A			8667
			SPARE	20/1	15	B	16	–	*			8667
			SPARE	20/1	17	C	18	–	*			8667
			SPACE	20/1	19	A	20	30/3	SDB-4A/5A			4667
			SPACE	20/1	21	B	22	–	*			4667
			SPACE	20/1	23	C	24	–	*			4667
			SPACE	20/1	25	A	26	20/3	SDB-6A/7A			2667
			SPACE	20/1	27	B	28	–	*			2667
			SPACE	20/1	29	C	30	–	*			2667
			SPACE	20/1	31	A	32	20/1	SPARE			
			SPACE	20/1	33	B	34	20/1	SPARE			
			SPACE	20/1	35	C	36	20/1	SPARE			
			SPACE	20/1	37	A	38	225/3	PANEL LM1		360	41963
			SPACE	20/1	39	B	40	–	VIA XFMR TLM1		1620	43844
			SPACE	20/1	41	C	42	–	*		1080	38223

VA:L (LIGHTING) 3350 CONNECTED 4188 DEMAND
VA:R (RECEPTACLES) 3060 CONNECTED 3060 DEMAND
VA:O (OTHER) 237493 CONNECTED 237493 DEMAND
VA: TOTAL 243903 CONNECTED 244741 DEMAND
AMPS: TOTAL 293 CONNECTED 294 DEMAND

L	R	O	TOTAL			
3350	360	79784	VA CONNECTED TO A PHASE	83494	VA =	301 AMPS CONNECTED TO A PHASE @ 277 VOLTS
	1620	81665	VA CONNECTED TO B PHASE	83285	VA =	301 AMPS CONNECTED TO B PHASE @ 277 VOLTS
	1080	76044	VA CONNECTED TO C PHASE	77124	VA =	278 AMPS CONNECTED TO C PHASE @ 277 VOLTS
3350	3060	237493	TOTAL	243903	VA	

PANELBOARD LM1 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
400 A MAIN CIRCUIT BREAKER — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		500	MOTORIZED DOOR	20/1	1	A	2	20/1	WARMER			500
	720		RECEPTACLES	20/1	3	B	4	20/1	WARMER			500
	900		RECEPTACLES	20/1	5	C	6	20/1	WARMER			500
	360		RECEPTACLES	20/1	7	A	8	20/1	WARMER			500
	900		RECEPTACLES	20/1	9	B	10	20/1	WARMER			500
		1000	GARBAGE DISPOSAL	20/1	11	C	12	20/1	WARMER			500
		1000	GARBAGE DISPOSAL	20/1	13	A	14	20/1	E1 REACH IN FREEZER			1320
		1000	GARBAGE DISPOSAL	20/1	15	B	16	20/1	SPARE			
			SOLENOID VAVLE	20/1	17	C	18	20/1	SPARE			
		500	E30 HOOD-1	20/1	19	A	20	20/1	SPACE			
		500	E30 HOOD-2	20/1	21	B	22	20/1	SPACE			
		500	E30 HOOD-3	20/1	23	C	24	20/1	SPACE			
		360	WH-1/HWCP-1	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	100/3	PANEL LMM			5650
			SPACE & BUS	225/3	31	A	32	–	*			3624
			*	–	33	B	34	–	*			3982
			*	–	35	C	36	100/3*	E12 CONVECTION STEAMER			*
			SURGE PROTECTIVE DEVICE	30/3	37	A	38	–	*			9547
			*	–	39	B	40	–	*			9547
			*	–	41	C	42	–	SHUNT TRIP			9547

PANELBOARD LM1 – Section 2

		500	E2 DISHWASHER CONVEYOR	20/1	43	A	44	70/3	E2 DISHWASHER			6161
		732	E8 PASS THRU REFRIGERATOR	20/1	45	B	46	–	*			6161
		732	E9 PASS THRU REFRIGERATOR	20/1	47	C	48	–	*			6161
		648	E16 MEAT SLICER	20/1	49	A	50	20/2	E4 MICROWAVE OVEN			1350
		3300	E20 COFFEE BREWER	20/2	51	B	52	–	*			1350
		3300	*	–	53	C	54	20/2	E4 MICROWAVE OVEN			1350
		3300	E20 COFFEE BREWER	20/2	55	A	56	–	*			1350
		3300	*	–	57	B	58	20/2	E7 PASS-THRU HEATED CABINET			811
		3300	E20 COFFEE BREWER	20/2	59	C	60	–	*			811
		3300	*	–	61	A	62	20/2	E7 PASS-THRU HEATED CABINET			811
		3300	E20 COFFEE BREWER	20/2	63	B	64	–	*			811
		3300	*	–	65	C	66	20/1*	E10 CONVECTION OVEN			720
		1730	E21 TEA BREWER	20/1	67	A	68	–	SHUNT TRIP			
		1730	E21 TEA BREWER	20/1	69	B	70	20/1*	E10 CONVECTION OVEN			720
		132	E29 ICE CUBER	20/1	71	C	72	–	SHUNT TRIP			*
		4160	E29 ICE CUBER CONDENSER	50/2	73	A	74	20/1*	E10 CONVECTION OVEN			720
		4160	*	–	75	B	76	–	SHUNT TRIP			*
	180		RECEPTACLE	20/1	77	C	78	20/1*	E10 CONVECTION OVEN			720
		826	E7-4/5	20/1	79	A	80	–	SHUNT TRIP			*
		720	E10 CONVECTION OVEN	20/1*	81	B	82	20/1*	E10 CONVECTION OVEN			720
			SHUNT TRIP	–	83	C	84	–	SHUNT TRIP			*

*=SHUNT TRIP CIRCUIT BREAKER.

VA:L (LIGHTING) CONNECTED DEMAND
VA:R (RECEPTACLES) 3060 CONNECTED 3060 DEMAND
VA:O (OTHER) 124030 CONNECTED 80620 DEMAND PER NEC 220
VA: TOTAL 127090 CONNECTED 83680 DEMAND PER NEC 220
AMPS: TOTAL 353 CONNECTED 232 DEMAND PER NEC 220

L	R	O	TOTAL			
	360	41963	VA CONNECTED TO A PHASE	42323	VA =	353 AMPS CONNECTED TO A PHASE @ 120 VOLTS
	1620	43844	VA CONNECTED TO B PHASE	45464	VA =	379 AMPS CONNECTED TO B PHASE @ 277 VOLTS
	1080	38223	VA CONNECTED TO C PHASE	39303	VA =	328 AMPS CONNECTED TO C PHASE @ 120 VOLTS
	3060	124030	TOTAL	127090	VA	

PANELBOARD HM2 – Section 1

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
1000 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 1200 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 35,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		10000	WH-2	50/3	1	A	2	40/3	AHU-B			5820
		10000	*	–	3	B	4	–	*			5820
		10000	*	–	5	C	6	–	*			5820
			SPARE	20/1	7	A	8	25-Mor	AHU-C			3880
			SPARE	20/1	9	B	10	–	*			3880
			SPARE	20/1	11	C	12	–	*			3880
			SPARE	20/1	13	A	14	25/3	AHU-D			3880
			SPACE	20/1	15	B	16	–	*			3880
			SPARE	20/1	17	C	18	–	*			3880
			SPACE	20/1	19	A	20	20/3	AHU-E			3048
			SPACE	20/1	21	B	22	–	*			3048
			SPACE	20/1	23	C	24	–	*			3048
			SPACE	20/1	25	A	26	25/3	AHU-F			3880
			SPACE	20/1	27	B	28	–	*			3880
			SPACE	20/1	29	C	30	–	*			3880
			SPACE	20/1	31	A	32	15/3	AHU-G			2106
			SPACE	20/1	33	B	34	–	*			2106
			SPACE	20/1	35	C	36	–	*			2106
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

PANELBOARD HM2 – Section 2

		733	SDB-1B/2B/3B	50/3	43	A	44	100/3	EDH-C			21667
		733	*	–	45	B	46	–	*			21667
		733	*	–	47	C	48	–	*			21667
		666	SDB-4B/5B/6B	50/3	49	A	50	90/3	EDH-D			18667
		666	*	–	51	B	52	–	*			18667
		666	*	–	53	C	54	–	*			18667
		800	SDB-7B/8B/9B	50/3	55	A	56	45/3	EDH-E			9333
		800	*	–	57	B	58	–	*			9333
		800	*	–	59	C	60	–	*			9333
		266	SDB-1G/2G/3G	20/3	61	A	62	60/3	EDH-F			12667
		266	*	–	63	B	64	–	*			12667
		266	*	–	65	C	66	–	*			12667
		416	SDB-4G/5G/6G	20/3	67	A	68	225/3	SPACE & BUS			
		416	*	–	69	B	70	–	*			
		416	*	–	71	C	72	–	*			
		250	SDB-7G/8G/9G	20/3	73	A	74	225/3	PANEL HL2	23056		1200
		250	*	–	75	B	76	–	*	20135		1200
		250	*	–	77	C	78	–	*	21919		
			SPACE & BUS	100/3	79	A	80	300/3	PANEL LM2	1000	12060	31152
			*	–	81	B	82	–	VIA XFMR TLM2	1000	10980	38316
			*	–	83	C	84	–	*		5760	40440

VA:L (LIGHTING) 67110 CONNECTED 83888 DEMAND
VA:R (RECEPTACLES) 28800 CONNECTED 19400 DEMAND
VA:O (OTHER) 491154 CONNECTED 491154 DEMAND
VA: TOTAL 587064 CONNECTED 594442 DEMAND
AMPS: TOTAL 706 CONNECTED 715 DEMAND

L	R	O	TOTAL			
24056	12060	158634	VA CONNECTED TO A PHASE	194750	VA =	703 AMPS CONNECTED TO A PHASE @ 277 VOLTS
21135	10980	165798	VA CONNECTED TO B PHASE	197913	VA =	714 AMPS CONNECTED TO B PHASE @ 277 VOLTS
21919	5760	166722	VA CONNECTED TO C PHASE	194401	VA =	702 AMPS CONNECTED TO C PHASE @ 277 VOLTS
67110	28800	491154	TOTAL	587064	VA	

PANELBOARD HL2

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
225 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 14,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
2048			LGT-MEETING RM 3,6	20/1	1	A	2	20/1	HVLS FANS	936		
1993			LGT-MEETING RM 2	20/1	3	B	4	20/1	HVLS FANS	936		
2043			LGT-MEETING 1,4	20/1	5	C	6	20/1	HVLS FANS	936		
3813			LTG-MEETING 7	20/1	7	A	8	20/1	EXTERIOR LIGHTING	644		
3813			LTG-MEETING 7	20/1	9	B	10	20/1	EXTERIOR LIGHTING	750		
2769			LTG-MEETING 8	20/1	11	C	12	20/1	EXTERIOR LIGHTING	2112		
3210			LTG-MEETING 8	20/1	13	A	14	20/1	EXTERIOR LIGHTING	2816		
1738			LIGHTING	20/1	15	B	16	20/1	EXTERIOR LIGHTING	1594		
4237			LIGHTING	20/1	17	C	18	20/1	EXTERIOR LIGHTING	2400		
3410			LIGHTING	20/1	19	A	20	20/1	EXTERIOR LIGHTING	2578		
3273			LIGHTING	20/1	21	B	22	20/1	EXTERIOR LIGHTING	2848		
2718			LIGHTING	20/1	23	C	24	20/1	PLANTER LIGHTING	160		
3321			LIGHTING	20/1	25	A	26	20/1	PLANTER LIGHTING	280		
3030			LIGHTING	20/1	27	B	28	20/1	PLANTER LIGHTING	160		
2454			LIGHTING	20/1	29	C	30	20/1	ROOF LIGHTING	2090		
		1200	INTERIOR BACK LIT SIGN	20/1	31	A	32	20/1	SPARE			
		1200	SIGNAGE	20/1	33	B	34	20/1	SPARE			
			SPARE	20/1	35	C	36	20/1	SPARE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING) 65110 CONNECTED 81388 DEMAND
VA:R (RECEPTACLES) CONNECTED DEMAND
VA:O (OTHER) 2400 CONNECTED 2400 DEMAND
VA: TOTAL 67510 CONNECTED 83788 DEMAND
AMPS: TOTAL 81 CONNECTED 101 DEMAND

L	R	O	TOTAL			
23056		1200	VA CONNECTED TO A PHASE	24256	VA =	88 AMPS CONNECTED TO A PHASE @ 277 VOLTS
20135		1200	VA CONNECTED TO B PHASE	21335	VA =	77 AMPS CONNECTED TO B PHASE @ 277 VOLTS
21919			VA CONNECTED TO C PHASE	21919	VA =	79 AMPS CONNECTED TO C PHASE @ 277 VOLTS
65110		2400	TOTAL	67510	VA	

PANELBOARD LMM

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		828	KEF-1	15/3	1	A	2	20/2	FCU/FCCU-5			1140
		828	*	–	3	B	4	–	*			1140
		828	*	–	5	C	6	20/2	EWH-1			1498
		828	KEF-2	15/3	7	A	8	–	*			1498
		828	*	–	9	B	10	20/1	SPARE			
		828	*	–	11	C	12	20/1	SPARE			
		828	KSF-1	15/3	13	A	14	20/1	SPARE			
		828	*	–	15	B	16	20/1	SPARE			
		828	*	–	17	C	18	20/1	SPARE			
		528	KEF-3	20/1	19	A	20	20/1	SPACE			
			SPARE	20/1	21	B	22	20/1	SPACE			
			SPARE	20/1	23	C	24	20/1	SPACE			
			SPARE	20/1	25	A	26	20/1	SPACE			
			SPARE	20/1	27	B	28	20/1	SPACE			
			SPARE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPCAE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING) CONNECTED DEMAND
VA:R (RECEPTACLES) CONNECTED DEMAND
VA:O (OTHER) 13256 CONNECTED 13256 DEMAND
VA: TOTAL 13256 CONNECTED 13256 DEMAND
AMPS: TOTAL 37 CONNECTED 37 DEMAND

L	R	O	TOTAL			
		5650	VA CONNECTED TO A PHASE	5650	VA =	47 AMPS CONNECTED TO A PHASE @ 120 VOLTS
		3624	VA CONNECTED TO B PHASE	3624	VA =	30 AMPS CONNECTED TO B PHASE @ 120 VOLTS
		3982	VA CONNECTED TO C PHASE	3982	VA =	33 AMPS CONNECTED TO C PHASE @ 120 VOLTS
		13256	TOTAL	13256	VA	

A ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

STATE OF TEXAS — ABRAM L. DOMINGUEZ — 97393 — LICENSED PROFESSIONAL ENGINEER
11.16.2016

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DRAWN	A.D./M.G.
CHECKED	A.D.
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

NO	DATE	DESCRIPTION
01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO
E4.1

PANELBOARD LM2 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
500 A MAIN CIRCUIT BREAKER — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND; ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
	900		RECEPTACLES	20/1	1	A	2	20/1	RECEPTACLES			500
	540		RECEPTACLES	20/1	3	B	4	20/1	BOTTLE COOLER			1056
		1000	RECEPTACLES	20/1	5	C	6	20/1	BOTTLE COOLER			1056
		1000	RECEPTACLES	20/1	7	A	8	20/1	BOTTLE COOLER			1056
		1728	ICE CUBER	20/1	9	B	10	20/1	RECEPTACLES		720	
		500	RECEPTACLES	20/1	11	C	12	20/1	BOTTLE COOLER			1056
		500	RECEPTACLES	20/1	13	A	14	20/1	BOTTLE COOLER			1056
		1056	BOTTLE COOLER	20/1	15	B	16	20/1	BOTTLE COOLER			1056
		1056	BOTTLE COOLER	20/1	17	C	18	20/1	BOTTLE COOLER			1056
		1056	BOTTLE COOLER	20/1	19	A	20	20/1	ICE CUBER			1728
	540		RECEPTACLES	20/1	21	B	22	20/1	COFFEE BREWER			1320
		1000	RECEPTACLES	20/1	23	C	24	20/1	COFFEE BREWER			1320
		1000	RECEPTACLES	20/1	25	A	26	20/1	RECEPTACLES		1080	
		1728	ICE CUBER	20/1	27	B	28	20/1	RECEPTACLES		900	
		500	RECEPTACLES	20/1	29	C	30	20/1	RECEPTACLES		720	
			SPARE	20/1	31	A	32	100/3	PANEL LC1		3060	6500
			SPARE	20/1	33	B	34	–	*		5040	4060
			SPARE	20/1	35	C	36	–	*		2160	5500
		4000	FOUNTAIN PUMPS	50/3	37	A	38	225/3	PANEL LM3	1000		9256
		4000	*	–	39	B	40	–	*	1000		9112
		4000	*	–	41	C	42	–	*			9196

PANELBOARD LM2 – Section 2

	720		RECEPTACLES	20/1	43	A	44	20/1	RECEPTACLES		900	
	720		RECEPTACLES	20/1	45	B	46	20/1	MOTORIZED SCREEN			500
		1500	HAND DRYER	20/1	47	C	48	20/1	MOTORIZED SCREEN			500
	360		RECEPTACLES	20/1	49	A	50	20/1	RECEPTACLES		720	
	900		RECEPTACLES	20/1	51	B	52	20/1	MOTORIZED SCREEN			500
	900		RECEPTACLES	20/1	53	C	54	20/1	MOTORIZED SCREEN			500
		1500	HAND DRYER	20/1	55	A	56	20/1	MOTORIZED SCREEN			500
		1500	HAND DRYER	20/1	57	B	58	20/1	RECEPTACLES		720	
		1200	EWC	20/1	59	C	60	20/1	RECEPTACLES		1080	
		1500	HAND DRYER	20/1	61	A	62	20/1	RECEPTACLES		900	
		1200	EWC	20/1	63	B	64	20/1	MOTORIZED SCREEN			500
	900		RECEPTACLES	20/1	65	C	66	20/1	MOTORIZED SCREEN			
	540		RECEPTACLES	20/1	67	A	68	20/1	RECEPTACLES		900	
		1000	RECEPTACLES	20/1	69	B	70	20/1	RECEPTACLES		900	
		1000	RECEPTACLES	20/1	71	C	72	20/1	MOTORIZED SCREEN			500
	540		RECEPTACLES MEZZANINE	20/1	73	A	74	20/1	RECEPTACLES		900	
		1500	HAND DRYER	20/1	75	B	76	20/1	HAND DRYER			1500
		1500	HAND DRYER	20/1	77	C	78	20/1	HAND DRYER			1500
			SPACE & BUS	100/3	79	A	80	20/1	RECEPTACLES		540	
			*	–	81	B	82	100/2	DIGITAL SIGNAGE			5000
			*	–	83	C	84	–	*			5000

VA:L (LIGHTING) 2000 CONNECTED — 2500 DEMAND
VA:R (RECEPTACLES) 28800 CONNECTED — 19400 DEMAND
VA:O (OTHER) 109908 CONNECTED — 109908 DEMAND
VA: TOTAL 140708 CONNECTED — 131808 DEMAND
AMPS: TOTAL 391 CONNECTED — 366 DEMAND

L	R	O		TOTAL		
1000	12060	31152	VA CONNECTED TO A PHASE	44212 VA =	368	AMPS CONNECTED TO A PHASE @ 120 VOLTS
1000	10980	38316	VA CONNECTED TO B PHASE	50296 VA =	419	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	5760	40440	VA CONNECTED TO C PHASE	46200 VA =	385	AMPS CONNECTED TO C PHASE @ 120 VOLTS
2000	28800	109908	TOTAL	140708 VA		

PANELBOARD LM3

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
225 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		540	MOTOR OPERATED PANEL OP#1	20/3	1	A	2	20/3	MOTOR OPERATED PANEL OP#5			540
		540	*	–	3	B	4	–	*			540
		540	*	–	5	C	6	–	*			540
		540	MOTOR OPERATED PANEL OP#2	20/3	7	A	8	20/3	MOTOR OPERATED PANEL OP#6			540
		540	*	–	9	B	10	–	*			540
		540	*	–	11	C	12	–	*			540
		540	MOTOR OPERATED PANEL OP#3	20/3	13	A	14	20/3	MOTOR OPERATED PANEL OP#7			540
		540	*	–	15	B	16	–	*			540
		540	*	–	17	C	18	–	*			540
		540	MOTOR OPERATED PANEL OP#4	20/3	19	A	20	20/3	MOTOR OPERATED PANEL OP#8			540
		540	*	–	21	B	22	–	*			540
		540	*	–	23	C	24	–	*			540
1000			TRACK LIGHTING	20/1	25	A	26	20/2	FCU/FCCU-1			1140
1000			TRACK LIGHTING	20/1	27	B	28	–	*			1140
		1200	SIGNAGE	20/1	29	C	30	20/2	FCU/FCCU-2			1140
		1200	SIGNAGE	20/1	31	A	32	–	*			1140
		1056	EF-1/3	20/1	33	B	34	20/2	FCU/FCCU-3			1140
		1176	EF-2	20/1	35	C	36	–	*			1140
			SPACE	20/1	37	A	38	20/2	FCU/FCCU-4			1456
			SPACE	20/1	39	B	40	–	*			1456
			SPACE	20/1	41	C	42	20/1	HWCP-2			220

VA:L (LIGHTING) 2000 CONNECTED — 2500 DEMAND
VA:R (RECEPTACLES) CONNECTED — DEMAND
VA:O (OTHER) 27564 CONNECTED — 27564 DEMAND
VA: TOTAL 29564 CONNECTED — 30064 DEMAND
AMPS: TOTAL 82 CONNECTED — 83 DEMAND

L	R	O		TOTAL		
1000		9256	VA CONNECTED TO A PHASE	10256 VA =	85	AMPS CONNECTED TO A PHASE @ 120 VOLTS
1000		9112	VA CONNECTED TO B PHASE	10112 VA =	84	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		9196	VA CONNECTED TO C PHASE	9196 VA =	77	AMPS CONNECTED TO C PHASE @ 120 VOLTS
2000		27564	TOTAL	29564 VA		

PANELBOARD LC1 – Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 200%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
			COMPUTERS – FLOORBOX	20/1	1	A	2	20/1	COMPUTERS			500
		360	COMPUTERS – FLOORBOX	20/1	3	B	4	20/1	COMPUTERS		720	
		360	COMPUTERS-POS	20/1	5	C	6	30/1	IT 122 L5-30R			2000
		360	COMPUTERS – FLOORBOX	20/1	7	A	8	30/1	IT 122 L5-30R			2000
		360	COMPUTERS-POS	20/1	9	B	10	30/1	IT 122 L5-30R			2000
		360	COMPUTERS-POS	20/1	11	C	12	20/1	IT 122		360	
		540	COMPUTERS	20/1	13	A	14	20/1	IT 122			500
		360	COMPUTERS	20/1	15	B	16	20/1	IT 122			500
		540	COMPUTERS	20/1	17	C	18	20/1	IT 122			500
		540	COMPUTERS	20/1	19	A	20	20/1	IT 122			500
		540	COMPUTERS	20/1	21	B	22	20/1	COMPUTERS		540	
			COMPUTERS – FLOORBOX	20/1	23	C	24	20/1	COMPUTERS		540	
			COMPUTERS – FLOORBOX	20/1	25	A	26	20/1	SPARE			
		360	COMPUTERS	20/1	27	B	28	20/1	COMPUTERS – FLOORBOX		360	
		500	COMPUTERS	20/1	29	C	30	20/1	SPARE			
			SPARE	20/1	31	A	32	20/1	SPARE			
			SPARE	20/1	33	B	34	20/1	SPARE			
			SPARE	20/1	35	C	36	20/1	SPARE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

PANELBOARD LC1 – Section 2

	540		COMPUTERS	20/1	43	A	44	30/1	MDF 128 L5-30R			2000
	540		COMPUTERS	20/1	45	B	46	30/1	MDF 128 L5-30R			200
			SPARE	20/1	47	C	48	20/1	MDF 128			500
	720		COMPUTERS	20/1	49	A	50	20/1	MDF 128		360	
	360		COMPUTERS	20/1	51	B	52	20/1	FACP			360
			SPARE	20/1	53	C	54	20/1	SPARE			
			SPARE	20/1	55	A	56	20/1	SPARE			
	540		COMPUTERS	20/1	57	B	58	20/1	SPARE			
			SPARE	20/1	59	C	60	20/1	SPARE			
			SPARE	20/1	61	A	62	20/1	SPARE			
			SPARE	20/1	63	B	64	20/1	SPARE			
			SPARE	20/1	65	C	66	20/1	SPARE			
			SPACE	20/1	67	A	68	20/1	SPACE			
			SPACE	20/1	69	B	70	20/1	SPACE			
			SPACE	20/1	71	C	72	20/1	SPACE			
			SPACE	20/1	73	A	74	20/1	SPACE			
			SPACE	20/1	75	B	76	20/1	SPACE			
			SPACE	20/1	77	C	78	20/1	SPACE			
			SPACE	20/1	79	A	80	30/3	SURGE PROTECTIVE DEVICE]			
			SPACE	20/1	81	B	82	–	*			
			SPACE	20/1	83	C	84	–	*			

VA:L (LIGHTING) CONNECTED — DEMAND
VA:R (RECEPTACLES) 10260 CONNECTED — 10130 DEMAND
VA:O (OTHER) 12060 CONNECTED — 12060 DEMAND
VA: TOTAL 22320 CONNECTED — 22190 DEMAND
AMPS: TOTAL 62 CONNECTED — 62 DEMAND

L	R	O		TOTAL		
	3060	5500	VA CONNECTED TO A PHASE	8560 VA =	71	AMPS CONNECTED TO A PHASE @ 120 VOLTS
	5040	3060	VA CONNECTED TO B PHASE	8100 VA =	68	AMPS CONNECTED TO B PHASE @ 120 VOLTS
	2160	3500	VA CONNECTED TO C PHASE	5660 VA =	47	AMPS CONNECTED TO C PHASE @ 120 VOLTS
	10260	12060	TOTAL	22320 VA		

PANELBOARD S

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
60 A MAIN CIRCUIT BREAKER — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
360			LIGHTING	20/1	1	A	2	20/1	RECEPTACLES		720	
144			EXTERIOR LIGHTING	20/1	3	B	4	20/1	MOTORIZED DOOR			500
			SPARE	20/1	5	C	6	20/1	BATTERY CHARGER			1920
			SPARE	20/1	7	A	8	20/1	BATTERY CHARGER			1920
			SPARE	20/1	9	B	10	20/1	BATTERY CHARGER			1920
			SPARE	20/1	11	C	12	20/1	SPARE			
			SPARE	20/1	13	A	14	20/1	SPARE			
			SPARE	20/1	15	B	16	20/1	SPARE			
			SPARE	20/1	17	C	18	20/1	SPARE			
			SPACE	20/1	19	A	20	20/1	SPACE			
			SPACE	20/1	21	B	22	20/1	SPACE			
			SPACE	20/1	23	C	24	20/1	SPACE			
			SPACE	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING) 504 CONNECTED — 630 DEMAND
VA:R (RECEPTACLES) 720 CONNECTED — 720 DEMAND
VA:O (OTHER) 6260 CONNECTED — 6260 DEMAND
VA: TOTAL 7484 CONNECTED — 7610 DEMAND
AMPS: TOTAL 21 CONNECTED — 21 DEMAND

L	R	O		TOTAL		
360	720	1920	VA CONNECTED TO A PHASE	3000 VA =	25	AMPS CONNECTED TO A PHASE @ 120 VOLTS
144		2420	VA CONNECTED TO B PHASE	2564 VA =	21	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		1920	VA CONNECTED TO C PHASE	1920 VA =	16	AMPS CONNECTED TO C PHASE @ 120 VOLTS
504	720	6260	TOTAL	7484 VA		

PANELBOARD R

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
200 A MAIN CIRCUIT BREAKER — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
600			LIGHTING	20/1	1	A	2	20/1	RECEPTACLES		1080	
216			EXTERIOR LIGHTING	20/1	3	B	4	20/1	EWC		1080	
		1920	EXTERIOR RECEPTACLES	20/1	5	C	6	20/1	HAND DRYER			1500
		1920	EXTERIOR RECEPTACLES	20/1	7	A	8	20/1	HAND DRYER			1500
		1920	EXTERIOR RECEPTACLES	20/1	9	B	10	30/2	WH-3			2250
		1920	EXTERIOR RECEPTACLES	20/1	11	C	12	–	*			2250
		1920	EXTERIOR RECEPTACLES	20/1	13	A	14	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	15	B	16	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	17	C	18	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	19	A	20	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	21	B	22	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	23	C	24	20/1	EXTERIOR RECEPTACLES			1920
		1920	EXTERIOR RECEPTACLES	20/1	25	A	26	20/1	SPARE			
		1920	EXTERIOR RECEPTACLES	20/1	27	B	28	20/1	SPARE			
		1920	EXTERIOR RECEPTACLES	20/1	29	C	30	20/1	SPARE			
			SPACE	20/1	31	A	32	20/1	SPACE			
			SPACE	20/1	33	B	34	20/1	SPACE			
			SPACE	20/1	35	C	36	20/1	SPACE			
			SPACE	20/1	37	A	38	20/1	SPACE			
			SPACE	20/1	39	B	40	20/1	SPACE			
			SPACE	20/1	41	C	42	20/1	SPACE			

VA:L (LIGHTING) 816 CONNECTED — 1020 DEMAND
VA:R (RECEPTACLES) 2160 CONNECTED — 2160 DEMAND
VA:O (OTHER) 43980 CONNECTED — 43980 DEMAND
VA: TOTAL 46956 CONNECTED — 47160 DEMAND
AMPS: TOTAL 130 CONNECTED — 131 DEMAND

L	R	O		TOTAL		
600	1080	13020	VA CONNECTED TO A PHASE	14700 VA =	123	AMPS CONNECTED TO A PHASE @ 120 VOLTS
216	1080	13770	VA CONNECTED TO B PHASE	15066 VA =	126	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		17190	VA CONNECTED TO C PHASE	17190 VA =	143	AMPS CONNECTED TO C PHASE @ 120 VOLTS
816	2160	43980	TOTAL	46956 VA		

PANELBOARD ST2

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
200 A MAIN CIRCUIT BREAKER — MOUNTING: RECESSED
BUSES: MAIN – 225 A; NEUTRAL – 200%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		1000	STAGE RECEPTACLES	20/1	1	A	2	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	3	B	4	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	5	C	6	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	7	A	8	20/1	SPARE			
			SPARE	20/1	9	B	10	20/1	SPARE			
			SPARE	20/1	11	C	12	20/1	SPARE			
			SPARE	20/1	13	A	14	20/1	SPARE			
			SPARE	20/1	15	B	16	20/1	SPARE			
			SPARE	20/1	17	C	18	20/1	SPARE			
			SPARE	20/1	19	A	20	20/1	SPARE			
			SPARE	20/1	21	B	22	20/1	SPARE			
			SPARE	20/1	23	C	24	20/1	SPARE			
			SPACE	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE (LOAD)			8000
			SPACE	20/1	33	B	34	20/1	SPACE (LOAD)			8000
			SPACE	20/1	35	C	36	20/1	SPACE (LOAD)			8000
			SPACE	20/1	37	A	38	30/3	INTEGRAL SURGE PROTECTION			
			SPACE	20/1	39	B	40	–	*			
			SPACE	20/1	41	C	42	–	*			

VA:L (LIGHTING) CONNECTED — DEMAND
VA:R (RECEPTACLES) CONNECTED — DEMAND
VA:O (OTHER) 31000 CONNECTED — 31000 DEMAND
VA: TOTAL 31000 CONNECTED — 31000 DEMAND
AMPS: TOTAL 86 CONNECTED — 86 DEMAND

L	R	O		TOTAL		
		11000	VA CONNECTED TO A PHASE	11000 VA =	92	AMPS CONNECTED TO A PHASE @ 120 VOLTS
		10000	VA CONNECTED TO B PHASE	10000 VA =	83	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		10000	VA CONNECTED TO C PHASE	10000 VA =	83	AMPS CONNECTED TO C PHASE @ 120 VOLTS
		31000	TOTAL	31000 VA		

PANELBOARD ST1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
200 A MAIN CIRCUIT BREAKER — MOUNTING: RECESSED
BUSES: MAIN – 225 A; NEUTRAL – 200%; EQUIPMENT GROUND; ISOLATED GROUND; SPD PANELBOARD — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		1000	STAGE RECEPTACLES	20/1	1	A	2	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	3	B	4	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	5	C	6	20/1	SOUND BOARD			1000
		1000	STAGE RECEPTACLES	20/1	7	A	8	20/1	SPARE			
			SPARE	20/1	9	B	10	20/1	SPARE			
			SPARE	20/1	11	C	12	20/1	SPARE			
			SPARE	20/1	13	A	14	20/1	SPARE			
			SPARE	20/1	15	B	16	20/1	SPARE			
			SPARE	20/1	17	C	18	20/1	SPARE			
			SPACE	20/1	19	A	20	20/1	SPACE			
			SPACE	20/1	21	B	22	20/1	SPACE			
			SPACE	20/1	23	C	24	20/1	SPACE			
			SPACE	20/1	25	A	26	20/1	SPACE			
			SPACE	20/1	27	B	28	20/1	SPACE			
			SPACE	20/1	29	C	30	20/1	SPACE			
			SPACE	20/1	31	A	32	20/1	SPACE (LOAD)			8000
			SPACE	20/1	33	B	34	20/1	SPACE (LOAD)			8000
			SPACE	20/1	35	C	36	20/1	SPACE (LOAD)			8000
			SPACE	20/1	37	A	38	30/3	INTEGRAL SURGE PROTECTION			
			SPACE	20/1	39	B	40	–	*			
			SPACE	20/1	41	C	42	–	*			

VA:L (LIGHTING) CONNECTED — DEMAND
VA:R (RECEPTACLES) CONNECTED — DEMAND
VA:O (OTHER) 31000 CONNECTED — 31000 DEMAND
VA: TOTAL 31000 CONNECTED — 31000 DEMAND
AMPS: TOTAL 86 CONNECTED — 86 DEMAND

L	R	O		TOTAL		
		11000	VA CONNECTED TO A PHASE	11000 VA =	92	AMPS CONNECTED TO A PHASE @ 120 VOLTS
		10000	VA CONNECTED TO B PHASE	10000 VA =	83	AMPS CONNECTED TO B PHASE @ 120 VOLTS
		10000	VA CONNECTED TO C PHASE	10000 VA =	83	AMPS CONNECTED TO C PHASE @ 120 VOLTS
		31000	TOTAL	31000 VA		

A ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

STATE OF TEXAS — ABRAM L. DOMINGUEZ — 97393 — LICENSED PROFESSIONAL ENGINEER
11.16.2016

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-4748

ZDA architecture
2902 N. FLORES
SAN ANTONIO, TEXAS 78212
PH: (210) 734-7371

CITY OF MISSION, TEXAS — FOUNDED IN 1908

MISSION EVENT CENTER
210 N. SHARY RD. MISSION, TX. 78572

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DRAWN	A.D./M.G.
CHECKED	A.D.
PROJECT NO	2016-01
DATE	08-24-2016

REVISIONS

NO	DATE	DESCRIPTION
01	11.16.16	ADDENDUM #1

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO
E4.2

C•F•Z Group, LLC
Coltrane•Fernandez•Zavala
Landscape Architects
7410 John Smith, #208
San Antonio, Texas 78229
210-366-1911

ADDENDUM NO. 01

PROJECT NAME: Mission Event Center
CFZ NO.: 16-1004
DATE: November 16, 2016

To: All Prime Contract Bidders and all others to whom drawings and specifications have been issued.

This Addendum forms a part of the Contract Documents. This Addendum modifies and supplements the Contract Documents as follows for the above mentioned project. All other provisions of the Documents remain unchanged.

GENERAL CHANGES

N/A

CHANGES TO SPECIFICATIONS

Item No. 1 Section 32 93 00, Part 2, paragraph 2.3:
Add in its entirety section J:
"J. Aluminum edger: Permaloc aluminum edger or approved equal, 1/8" x 4" with stakes. Color shall be green."

Item No. 2 Section 32 93 00, Part 3, paragraph 3.4:
Add in its entirety section E:
"E. Install aluminum edger 1" above finished grade. Aluminum edger shall be installed between all lawn and bed areas.

CHANGES TO DRAWINGS

Item No. 3 Sheet I3.4, Irrigation Details: Delete in its entirety "Sheet I3.4," dated 8/25/2016. Add in its entirety "Sheet I3.4," dated 11/16/16.

Item No. 4 Sheet L3.0, Overall Planting Plan:
Delete in its entirety "Sheet L3.0," dated 8/25/2016. Add in its entirety "Sheet L3.0," dated 11/16/16.

Item No. 5 Sheet L3.1, Overall Planting Plan:
Delete in its entirety "Sheet L3.1," dated 8/25/2016. Add in its entirety "Sheet L3.1," dated 11/16/16.

Item No. 6 Sheet L3.2, Enlarged Planting Plan:
Delete in its entirety "Sheet L3.2," dated 8/25/2016. Add in its entirety "Sheet L3.2," dated 11/16/16.

Item No. 7 Sheet L4.0, Landscape Details:
Delete in its entirety “Sheet L4.0,” dated 8/25/2016. Add in its entirety “Sheet L4.0,” dated 11/16/16.

11/16/16

END OF ADDENDUM NO. 01

IRRIGATION NOTES:

1. Contractor to submit as built drawings of the automatic irrigation system as described on the drawing and within these notes.
A. All valves electrical, quick coupling and isolation.
B. All wire junctions and splice boxes.
C. All ending locations of extra valve wires.
D. Location of irrigation controller and rain and freeze sensor.
Illustrate on the drawing location of as built equipment with two triangulating measurements from permanent objects.
Drawings are to be sealed by a licensed Irrigator with the State of Texas. Submit as built drawings to the Landscape Architect or Owner's representative.

2. All mainline and lateral line piping and control wires under paving shall be installed in sleeves. Lateral line sleeves shall be a minimum of twice (2X) the diameter of the pipe to be sleeved. Mainline and control wire sleeves shall be of adequate size to allow for removal and repair. Minimum sleeve size shall be 2" O.D.

3. Contractor to install backflow prevention devices, piping and all other required equipment between the point of connection and backflow assembly as per local and governing authorities.

4. Final location of the backflow preventer and automatic controller shall be approved by the owner's authorized representative.

5. All sprinkler heads shall be set perpendicular to finish grade unless otherwise specified.

7. The Irrigation Contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal over spray onto walks, streets, walls, etc.

8. It is the responsibility of the Irrigation Contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.

1

9. All work shall be installed in accordance with applicable codes and ordinances as per local and governing authorities.

10. Irrigation main lines 2-1/2"and smaller shall be PVC solvent weld and 3" main lines shall be gasket type with joint restraint and have a min. cover of 18". All lateral lines shall be PVC with 12" min. cover.

11. All control wire shall be a 14 ga., 600 volt, single conductor solid copper, plastic insulated cable rated for direct burial applications, U.F., U.L. approved. Each controller to have different colored pilot wire and common wire.
* Station Wire – any color except white or blue.
* Common Wire – White.
* Extra common wires – Blue.

12. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary. If the contractor alters the intent of the irrigation design or install not submitted or rejected material, they will be responsible for making such changes to correct the installation according to supplied drawings.

13. All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.

14. The irrigation contractor shall install serviceable check valves on all heads in areas where post valve shut-off draining of the irrigation head occurs or as directed by the owner's authorized representative.

15. The contractor shall be a Registered License Irrigator in the State of Texas. Contractor must conform to all codes as stated in section 34 of the Texas Water Code and TNRCC.

16. All remote control valves, gate valves, and quick couplers shall be installed in a Armor standard valve box, control wire and computer cable pull points shall be installed in an Armor 10" valve boxes.

17. Waterproof Connectors to be used on all wire connections.

18. Irrigation Contractor shall procure all permits license, and pay all charges and fees and give all necessary notices for the completion of work.

19. Refer to specifications for additional detailed information.

20. All valves shall be adjusted to minimize wind drift and maximize coverage. Adjust valves operating pressure at farthest or highest head from valve. Do not adjust output at the nozzle unless absolutely necessary.

21. No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to a tree trunk than ½ the RPZ radius unless done by hand.

22. Extreme care shall be exercised in excavating and working near utilities. Contractor shall verify the location and condition of all utilities and be responsible for damage to any utilities.

23. Contractor shall clearly mark all exposed excavations, materials and equipment. Cover or barricade trenches when the contractor is not on the site. Take all necessary safety precautions to protect and prevent injury to any persons on the site.

24. Prior to project turn over the Irrigation Contractor will be required to conduct a final walk thru with the Owner or their representatives. The walk thru is to establish 100% completion of the irrigation installation and operation according to specifications. After three malfunctions or installation discrepancy occur the walk thru will be stopped and rescheduled for a later date at the Contractors expense.

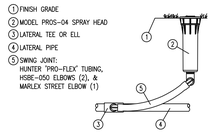
25. The irrigation design does not provide full 100% coverage of the site. See plans and specifications for areas to be irrigated.

26. The irrigation contractor is required by law to notify Texas One Call (800-245-4545) 72 hours prior to any excavation.

27. The drawings are generally diagrammatic and represent the intent of the work to be installed. For clarity purposes some irrigation lines are shown in hardscape areas without access sleeves. These line shall be installed in a common trench or at the back of curb in landscape areas.

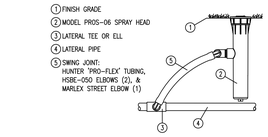
28. All work called for on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.

29. Prior to construction the Contractor shall verify on-site water pressure. Contractor shall submit letter certifying that on-site pressure exceeds design pressure by 10%. If on-site pressure does not exceed design pressure by 10%, contact the Owner's representative for resolution. If construction work starts prior to receiving certification letter and before response, the Contractor assumes all costs for changes required to meet design pressure plus 10% or to reduce site pressure to 79 psi.



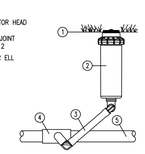
NOTE:
IN TURF AREAS INSTALL ALL STANDARD NOZZLES ON A FOUR INCH POP-UP.

1 PROS-04 SPRAY HEAD
IRRIGATION DETAIL

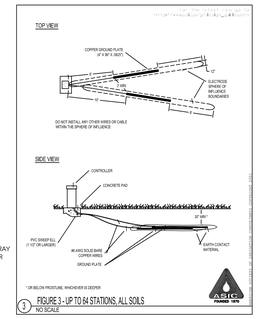


NOTE:
IN TURF AREAS INSTALL ALL LOW ANGLE NOZZLES ON A SIX INCH POP-UP.

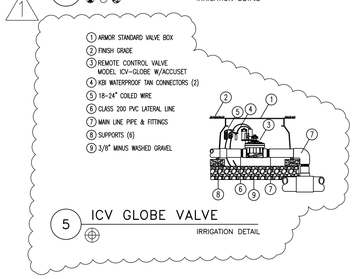
2 PROS-06 SPRAY HEAD
IRRIGATION DETAIL



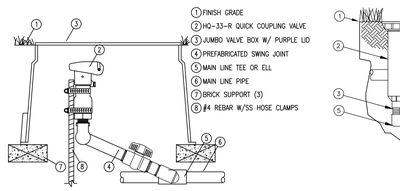
4 PGP ROTOR HEAD
IRRIGATION DETAIL



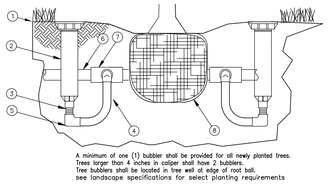
3 FIGURE 3 - UP TO 04 STATIONS, ALL SOILS
NO SCALE



5 ICV GLOBE VALVE
IRRIGATION DETAIL

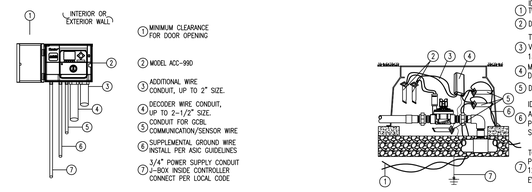


6 QUICK COUPLING VALVE
IRRIGATION DETAIL



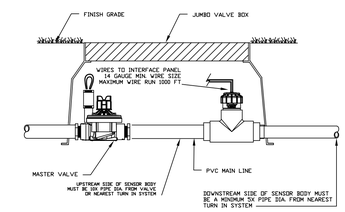
1 FINISH GRADE/TOP OF MULCH
2 HUNTER PROS-04 POP-UP SPRAY W/HUNTER PCN-.50 BUBBLER (one of two)
3 PCV SCH 40 NIPPLE (one of two)
4 FLEXIBLE SCH 40 PVC LENGTH AS REQUIRED (one of two)
5 PVC SCH 40 ELL (one of two)
6 LATERAL PIPE
7 PVC SCH 40 FITTING (one of two)
8 TREE ROOT BALL

7 TREE BUBBLER
IRRIGATION DETAIL



8 ACC DECODER CNTRLLR
IRRIGATION DETAIL

9 ICD 100 DECODER
IRRIGATION DETAIL



10 HUNTER FLOW-SYNC
FTC-200 INSTALLATION DETAIL

ACC and ACC Decoder Specifications

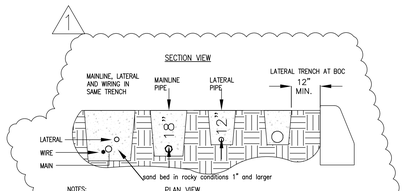
Earth grounding shall be connected via a factory supplied copper ground lug inside the controller, for connection to earth ground hardware via 6 AWG(4mm dia.) copper wire (see ASIC Earth Grounding Guideline 100-2002 for details of earth grounding irrigation control systems available online at www.asic.org). Ground wire shall be extended underground, at right angles to any communications wiring, to approved direct burial earth grounding hardware at least 6 ft./2m from the controller location. Earth Ground shall be have an impedance of 10 Ohms or less, or shall meet the standards of the Earth Grounding Guideline cited above.

The installer shall provide adequate earth ground (not to exceed 10 Ohms, or in compliance with practices as defined in American Society of Irrigation Consultants Earth Grounding Guideline 100-2002, available at www.asic.org) and connect it to one of the decoder ground leads every 1000 ft.(330m), or every 12th decoder module, whichever is shorter. Minimum ground hardware shall be a 4" x 36" (100 x 915mm) copper plate with at least 10AWG/2.5mm dia. copper wire. In high lighting areas, grounding may be increased to every 500 ft./150m or 6 decoders.
Ground connections from decoder ground lead to grounding hardware shall be made by joining the 12AWG (2mm dia.) decoder ground wire with a 10AWG (2.5mm dia.) solid copper lead in an approved wire nut of appropriate size, inserted in a DBR-6 waterproof direct burial connector, or with an approved wire clamp. Ground hardware shall extend at right angles from the two-wire red/blue path, and ground hardware shall be located at least 6ft./2m away from the two-wire path.

All connections in the two-wire paths (outside the controller enclosure) shall be made with 3M DBR-6 waterproof, strain-relieving direct burial connectors, or exact equals. Decoder output to solenoid connections shall be made with 3M DBY waterproof, strain-relieving connectors, or exact equals. No substitution of wire or wire connector specifications is permissible. All connections, tees, and splices shall be positioned in valve boxes for future location and service.
Maximum distance from decoder output to solenoid under normal conditions shall be 100 ft./33m. Wire runs between decoder output and solenoid shall be twisted wire when in excess of 20 ft./7m, to assist in surge protection.

The two-wire paths may be spliced, or "teed", permitting extensions of the path in multiple directions. In general, the distance from the controller to the end of any one end of a "tee" or wire run shall not exceed the maximum for the gauge of wire, even if the total of all wire exceeds that number. For example, a path comprised of IDWIRE1 (rated for 10,000ft./3km) could extend 5000 ft./1.5km to a "tee" splice, and each arm of the tee could extend an additional 5000 ft./1.5km. The total wire connected would equal 15,000 ft./4.5km, but the distance from the controller, to the end of each run, would be 10,000ft./3km or less, meeting the specification. All wire splices must be made in a valve box with DBR-6 or equal direct-burial waterproof connectors.

The Sensor Decoder shall install into the two-wire path exactly like the ICD station output decoders, having a single red/blue pair for connection to the two-wire path, and shall also have a programmable address. The Sensor Decoder connections shall be made according to the specifications for all other decoders.
Sensor connections shall be made to the color-coded Sensor Decoder input leads with DBY, or exact equal, waterproof, direct-burial connectors, and all connections shall be placed in a valve box for subsequent location and service. Sensors shall be connected with not more than 150ft./45m 18AWG/1mm wire to the Sensor Decoder.



NOTES:
1. SAND BED ALL PVC IRRIGATION PIPE WHEN 50% OF SOIL CONDITIONS ARE 1 INCH AND LARGER ROCK.
2. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

11 PIPE & WIRE TRENCH

LEGEND

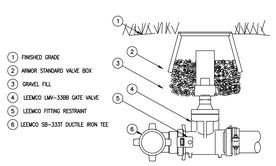
- HUNTER PROS-04 w/ 15' RADIUS NOZZLE
- HUNTER PROS-04 w/ 12' RADIUS NOZZLE
- HUNTER PROS-06 w/ 10' RADIUS NOZZLE
- HUNTER PROS-06 w/ 8' RADIUS NOZZLE
- HUNTER PROS-06 w/ 5' RADIUS NOZZLE
- HUNTER PROS-04 w/ PCN-10 BUBBLER NOZZLE
- HUNTER PROS-06 w/ STRIP NOZZLE
- HUNTER PROS-04 w/ 17A ADJUSTABLE ARC NOZZLE
- HUNTER PGP-BLUE NOZZLE-5.0 ROTARY HEAD
- HQ-33DRC COUPLING VALVE (total of eight)
- HUNTER ICV-G-AS ELECTRIC VALVE
- HUNTER WRFC FREEZE AND RAIN SENSOR
- HUNTER ACC-99D DECODER CONTROLLER (one)
- BACKFLOW DEVICE
- LEEMCO RESILIENT WEDGE GATE VALVE
- 3" GASKET TYPE CLASS 200 PVC MAIN LINE SMALLER MAIN LINES WILL BE SCH 40
- CLASS 200 PVC LATERAL LINE
- CLASS 200 PVC SLEEVE INSTALL PVC IRRIGATION LINES IN A SLEEVE'S TWICE IT'S DIAMETER.

STATION ID. — VALVE SIZE
CONTROLLER — X-XX — XX/XX — XX — NOZZLE/ZONE
GPM — PSI AT BASE OF HEAD

1

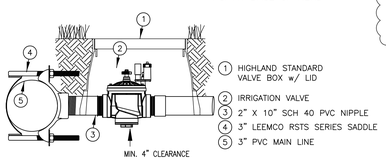
HARDWARE SIZE AND TORQUE REQUIREMENTS

Pipe Size	Pipe OD	No. of Bolts	Bolts Size	Torque Ft-Lb	Dimensions (Inch) A	B	C	D
3"	3.500	2	3/8-16 x 2.5	20	5.6	3.4	5.9	6.5
4"	4.500	2	1/2-13 x 3	50	6.7	3.8	7.3	7.6
6"	6.625	2	1/2-13 x 3.5	50	9.0	4.6	9.8	9.9
8"	8.625	4	1/2-13 x 4	50	11.2	5.9	12.0	12.2
10"	10.750	4	5/8-11 x 5.5	100	13.4	7.3	14.8	14.8
12"	12.750	4	5/8-11 x 5.5	100	15.4	8.8	17.5	16.7



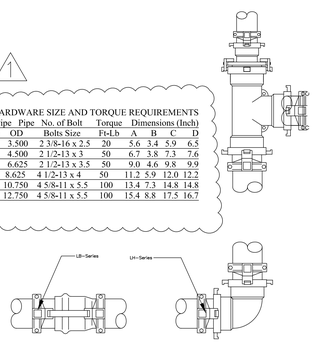
LEEMCO SELF- RESTRAINED RESILIENT WEDGE GATE VALVE LMV-34SB

12 LEEMCO: GATE VALVE
IRRIGATION DETAIL

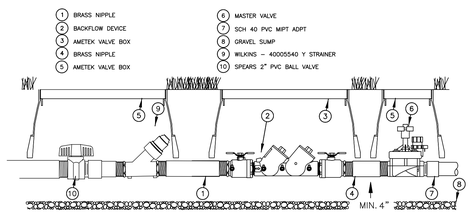


SADDLE w/ IRRIGATION VALVE POC:
ACCESS 3" PVC IRRIGATION MAIN LINE WITH LEEMCO" RSTS SADDLE
CONNECT IRRIGATION VALVE WITH 2" X 10" SCH 40 PVC NIPPLE

13 LEEMCO: SADDLE
IRRIGATION DETAIL



14 LEEMCO: DI. FITTINGS W/ JOINT RESTRAINTS
IRRIGATION DETAIL



NOTE: 1 INSTALL BACKFLOW DEVICE AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

15 WILKINS 350S SHFT

FRICTION LOSS @ 50 GPM

2"	copper service @ 20'	0.51
2"	water meter	1.90
2"	backflow	4.00
2"	master valve	1.00
3"	main line 1400'	3.78
3"	isolation valve	1.00
2"	zone valve	1.00
	lateral line	5.00
	spray head	30.00
	rotary head	
	elevation +	
	elevation –	
	TOTAL	48.19

FRICTION LOSS @ 50 GPM

2"	copper service @ 20'	0.51
2"	water meter	1.90
2"	backflow	4.00
2"	master valve	1.00
3"	main line 1400'	3.78
3"	isolation valve	1.00
2"	zone valve	1.00
	lateral line	5.00
	spray head	
	rotary head	25.00
	elevation +	
	elevation –	
	TOTAL	43.19

EFFECTIVE WATER MANAGEMENT L.L.C.
Irrigation Design and Consultant
21507 Hyewood
San Antonio, TX 78259
wk: 210 481 3258
cell: 210 213 0602
email: ewm@satx.rr.com

ZDA architecture
2902 N. FLORES
SAN ANTONIO, TEXAS 78212
PH: (210) 734-7371

STATE OF TEXAS
BRIAN S. DOWNS
971
REGISTERED
08-25-16

CITY OF MISSION, TEXAS
FOUNDED IN 1908

MISSION EVENT CENTER
210 N. SHARY RD. MISSION, TX. 78572

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CHECKED	LAZ
PROJECT NO	16-1004
DATE	08/25/2016

REVISIONS

NO	DATE	DESCRIPTION
	11/16/16	Addendum 1

SHEET TITLE
IRRIGATION DETAILS

SHEET NO
I3.4

PLANT SCHEDULE

Key	SCIENTIFIC NAME	COMMON NAME	CONDITION	REMARKS
	TREES			
MO	*Quercus polymorpha*	Monterrey Oak	Container	2" cal. single trunk; 12'-14' ht; 5'-6' sprd
CM	*Lagerstroemia indica*	Crape Myrtle	Container	2" cal. Multi-trunk, 8'-10' ht.; 4'-5' sprd.
SP	*Sabal texana*	Sabal Palm	B&B	8'-10' clear trunk
DW	*Chilopsis linearis*	Desert Willow	Container	2" cal. multi-trunk; 5'-6' ht.; 3'-4' sprd.
LO	*Quercus virginiana*	Live Oak	Container	2" cal. single trunk; 12'-14' ht; 5'-6' sprd
MES	*Prosopis glandulosa*'Maverick'	Thornless Texas Honey Mesquite	Container	1.5" cal., single trunk, 8'-9' ht., 4'-5' sprd.
MTL	*Sophora secundiflora*	Mountain Laurel	Container	2" cal. Multi-trunk, 8'-10' ht.; 4'-5' sprd.
MWO	*Cordia boissieri*	Mexican Wild Olive	Container	2" cal. Multi-trunk, 8'-10' ht.; 4'-5' sprd.
TEX	*Ebenopsis ebano*	Texas Ebony	Container	1.5" cal., single trunk, 8'-9' ht., 4'-5' sprd.
TPR	*Diospyros texana*	Texas Persimmon	Container	2" cal. multi-trunk; 5'-6' ht.; 3'-4' sprd.
	Shrubs			
AS	*Savlia greggi*	Red Autumn Sage	3 gal.	18" ht., 12" sprd, full, 36" o.c.
BI	*Dietes bicolor*	Bicolor Iris	5 gal.	18" ht., 18" sprd, full, 36" o.c.
BOP	*Caesalpinia pulcherrima*	Red Bird of Paradise	5 gal.	20" ht., 18" sprd, full, 48" o.c.
ESP	*Tecoma stans*	Yellow Bells	5 gal.	22" ht., 18" sprd, full, 48" o.c.
HLH	*Hibiscus martianus*	Heart Leaf Hibiscus	3 gal.	20" ht., 18" sprd, full, 36" o.c.
IS	*Salvia 'Indigo Spires'*	Indigo Spires	5 gal.	24" ht., 18" sprd., full, 48" o.c.
IXO	*Ixora taiwanensis*	Dwarf Ixora	3 gal.	18" ht., 12" sprd., full, 36" o.c.
MBS	*Salvia leucantha*	Mexican Bush Sage	5 gal.	20" ht., 20" sprd, full, 48" o.c.
RR	*NOT USED*			
SKL	*Viguiera stenaloba*	Skeleton Leaf Goldeneye	3 gal.	18" ht., 12" sprd, full, 36" o.c.
	Grasses			
GMG	*Muhlenbergia capillaris*	Gulf Muhly	5 gal.	15" ht., 15" sprd, full, 36" o.c.
MFG	*Nasella tenuissima*	Mexican Feather Grass	1 gal.	10" ht., 6" sprd, full, 18" o.c.
	Perennials & Groundcovers			
ASP	*Asparagus densiflours* 'Sprengeri'	Asparagus Fern	1 gal.	12" ht., 12" sprd., full, 36" o.c.
CAS	*Aspidistra elatior*	Cast Iron Plant	1 gal.	12" ht., 12" sprd., full, 36" o.c.
LA	*Stachys byzantia*	Lamb's Ear	1 gal.	8" ht., 8" sprd, full, 12" o.c.
PRO	*Rosmarinus officinalis 'Prostratus'*	Prostrate Rosemary	1 gal.	12" ht., 12" sprd., full, 36" o.c.
SKU	*Scutellaria suffrutescens*	Pink Skullcap	1 gal.	8" ht., 8" sprd, full, 24" o.c.
ZX	*Wedelia hispida*	Zexmenia	3 gal.	12" ht., 8" sprd, full, 36" o.c.
	Natives			
QVA	*Agave victoriae-reginae*	Queen Victoria Agave	5 gal.	18" ht., 18" sprd, full, 48" o.c.

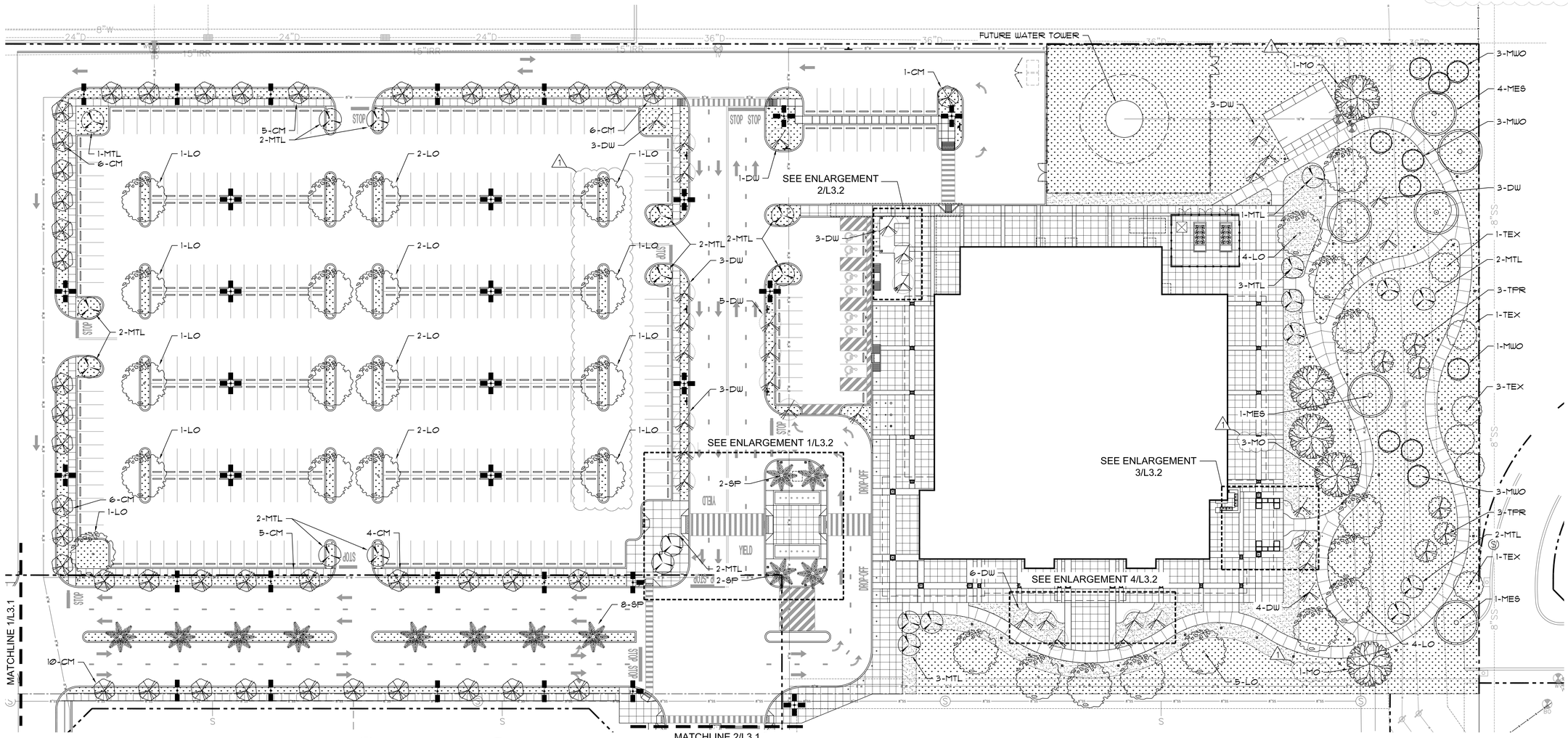
PLANTING NOTES (KEYED NOTES):

1. Landscape contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Landscape contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from inspection approval and will require the contractor to install/repair work as required for approval at the cost of the contractor. Landscape contractor is to inform Landscape Architect of the start date of work.
2. The landscape contractor is to notify Texas One Call (800-245-4545) and 800 DIG TESS (800-344-8377) 72 hours prior to any excavation. Landscape contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. Landscape contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not Texas One Call is notified.
3. Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
4. The Contractor shall be responsible for any coordination with subcontractors as required to accomplish planting operations.
5. If conflicts arise between size of areas and plans, Contractor is to contact Landscape Architect for resolution. Failure to make such conflicts known will result in Contractor's liability to relocate the materials.
6. See specifications for planting requirements, materials and execution.
7. All disturbed areas to receive sod or hydroseed.

8. RECTANGULAR FOUNTAIN, SEE DTLS. 1-3/L4.1
9. CUSTOM, PRE-FABRICATED CONCRETE PLANTERS. SEE DTL. 5/L4.1
10. ALUMINUM EDGING, SEE DTL. 2/L4.0

LEGEND

- (MO) MONTERREY OAK
- (CM) CRAPE MYRTLE
- (SP) SABAL PALM
- (DW) DESERT WILLOW
- (LO) LIVE OAK
- (MES) THORNLESS TEXAS HONEY MESQUITE
- (MTL) MOUNTAIN LAUREL
- (MWO) MEXICAN WILD OLIVE
- (TEX) TEXAS EBONY
- (TPR) TEXAS PERSIMMON
- BERMUDA GRASS SOLID SOD
- BERMUDA GRASS SEED



1 TREE PLAN

0 30 60 90
1'=30'-0"

C•F•Z Group LLC
Landscape Architecture & Planning

ZDA architecture

2902 N. FLORES
SAN ANTONIO, TEXAS 78212
PH: (210) 734-7371

8/25/2016

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210 N. SHARY RD. MISSION, TX. 78572

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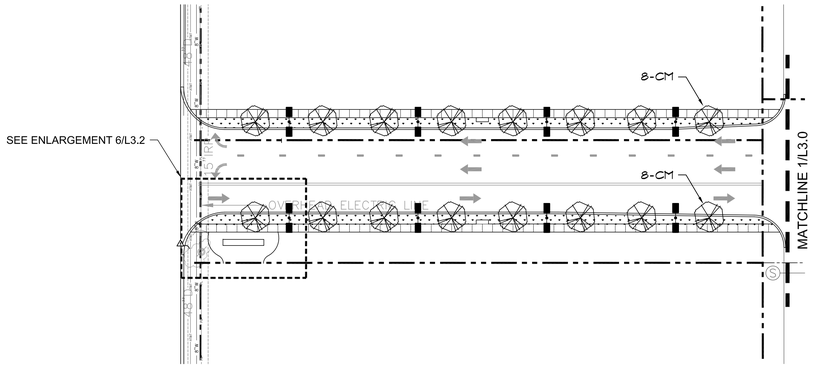
1	11/16/16	ADDENDUM #1

SHEET TITLE
OVERALL PLANTING PLAN

SHEET NO
L3.0

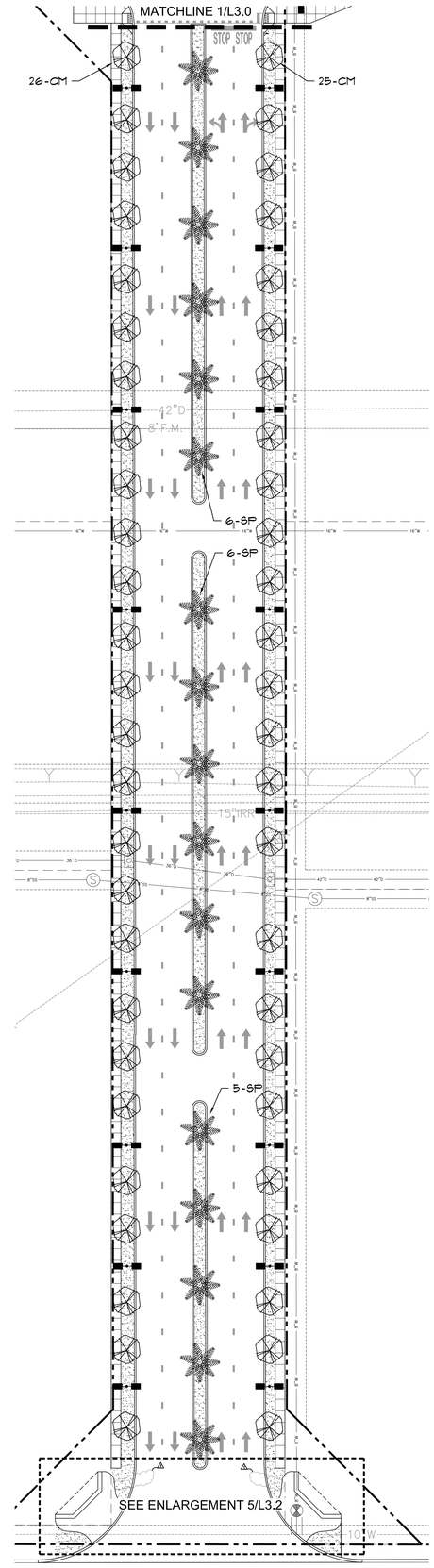


1 TREE PLAN

0 30 60 90

SCALE: 1"=30'-0"

NORTH



2 TREE PLAN

0 30 60 90

1"=30'-0"

LEGEND

- (MO) MONTERREY OAK
- (CM) CRAPE MYRTLE
- (SP) SABAL PALM
- (DW) DESERT WILLOW
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C•F•Z Group LLC
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SAN ANTONIO, TEXAS 78212
PH: (210) 734-7371

STATE OF TEXAS
LETICIA ZAVALA
1457
REGISTERED LANDSCAPE ARCHITECT

8/25/2016

CITY OF MISSION, TEXAS
FOUNDED IN 1908

MISSION EVENT CENTER

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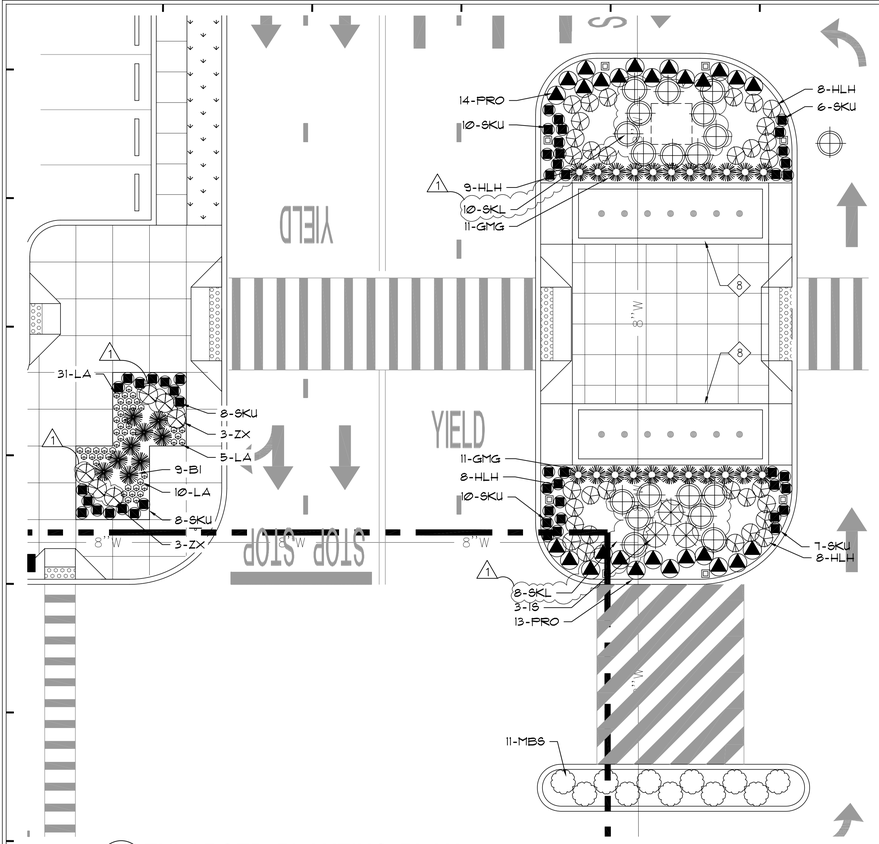
1	11/16/16	ADDENDUM #1

SHEET TITLE

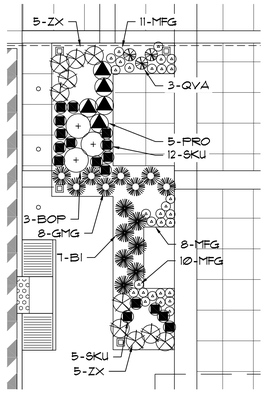
OVERALL PLANTING PLAN

SHEET NO

L3.1



1 ENLARGED PLANTING PLAN



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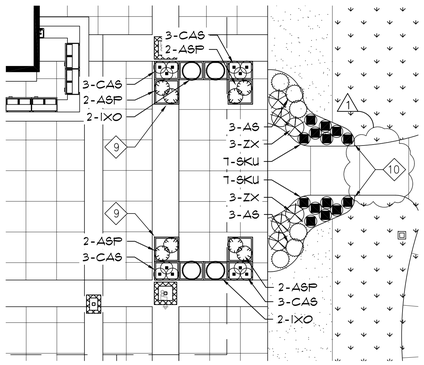
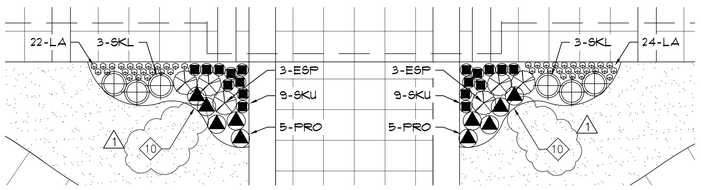
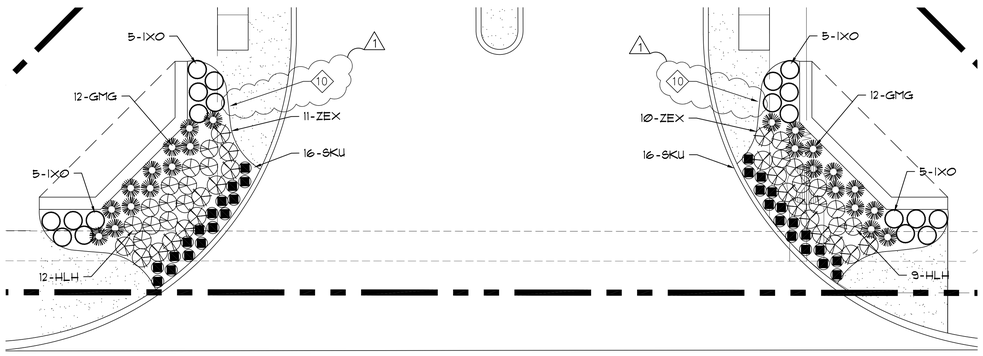


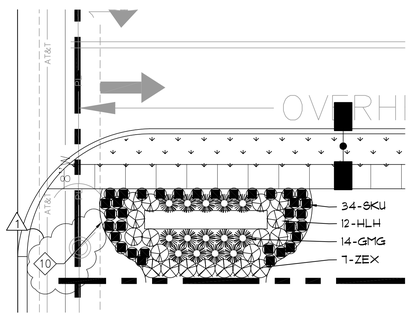
3 ENLARGED PLANTING PLAN



4 ENLARGED PLANTING PLAN



5 ENLARGED PLANTING PLAN



6 ENLARGED PLANTING PLAN

PLANTING NOTES (KEYED NOTES):

1. Landscape contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Landscape contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from inspection approval and will require the contractor to install/repair work as required for approval at the cost of the contractor. Landscape contractor is to inform Landscape Architect of the start date of work.
2. The landscape contractor is to notify Texas One Call (800-245-4545) and 800 DIG TESS (800-344-8377) 72 hours prior to any excavation. Landscape contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. Landscape contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not Texas One Call is notified.
3. Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
4. The Contractor shall be responsible for any coordination with subcontractors as required to accomplish planting operations.
5. If conflicts arise between size of areas and plans, Contractor is to contact Landscape Architect for resolution. Failure to make such conflicts known will result in Contractor's liability to relocate the materials.
6. See specifications for planting requirements, materials and execution.
7. All disturbed areas to receive sod or hydroseed.

8 RECTANGULAR FOUNTAIN, SEE DTLS. 1-3/L4.1

9 CUSTOM, PRE-FABRICATED CONCRETE PLANTERS. SEE DTL. 5/L4.1

10 ALUMINUM EDGING, SEE DTL. 2/L4.0 (1)

LEGEND

- (MO) MONTERREY OAK (1)
- (CM) CRAPE MYRTLE
- (SP) SABAL PALM
- (DW) DESERT WILLOW
- (LO) LIVE OAK
- (MES) THORNLESS TEXAS HONEY MESQUITE
- (MTL) MOUNTAIN LAUREL
- (MNO) MEXICAN WILD OLIVE
- (TEX) TEXAS EBONY
- (TPR) TEXAS PERSIMMON
- (AS) AUTUMN SAGE
- (ASP) ASPARAGUS FERN
- (BI) BICOLOR IRIS
- (BOP) PRIDE OF BARBADOS
- (CAS) CAST IRON PLANT
- (ESP) ESPERANZA
- (GMG) GULF MUHLY GRASS
- (HLH) HEARTLEAF HIBISCUS
- (IS) INDIGO SPIRES
- (IXO) IXORA
- (LA) LAMB'S EAR
- (MBS) MEXICAN BUSH SAGE
- (MFG) MEXICAN FEATHER GRASS
- (PRO) PROSTRATE ROSEMARY
- (QVA) QUEEN VICTORIA AGAVE
- NOT USED (1)
- (SKL) SKELETONLEAF GOLDENEYE
- (SKU) SKULLCAP
- (ZX) ZEXMENIA
- BERMUDA GRASS SOLID SOD
- BERMUDA GRASS SEED

0 10 20 30
1"=10'-0"

NORTH

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PH: (210) 734-7371

STATE OF TEXAS
LETICIA ZAVALA
1487
REGISTERED LANDSCAPE ARCHITECT
8/25/2016

CITY OF MISSION, TEXAS
FOUNDED IN 1908

MISSION EVENT CENTER
210 N. SHARY RD. MISSION, TX. 78572

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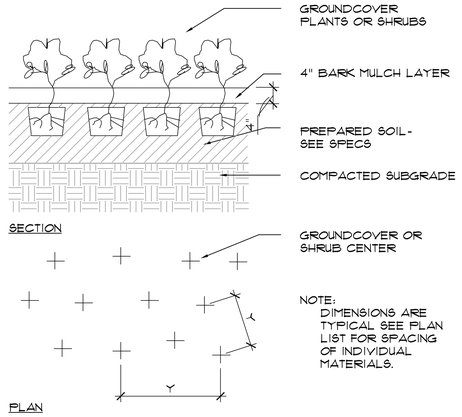
DRAWN	SDT
CHECKED	LAZ
PROJECT NO	16-1004
DATE	08/25/2016

REVISIONS

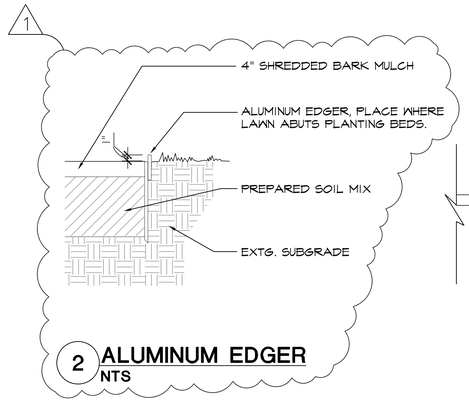
NO	DATE	DESCRIPTION
1	11/16/16	ADDENDUM #1

SHEET TITLE
ENLARGED PLANTING PLAN

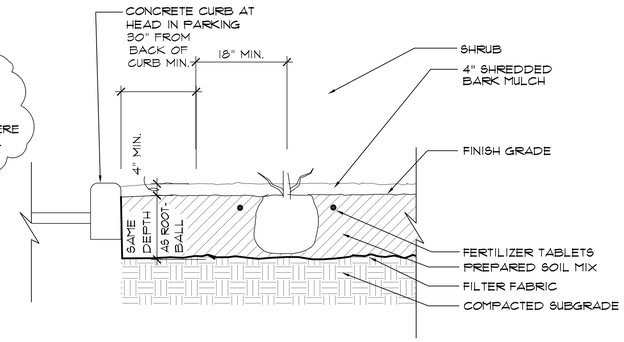
SHEET NO
L3.2



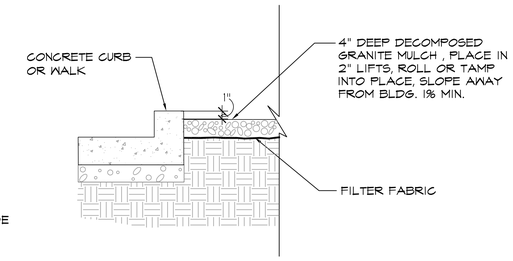
1 TRIANGLE SPACING PLANTING DETAIL
NTS



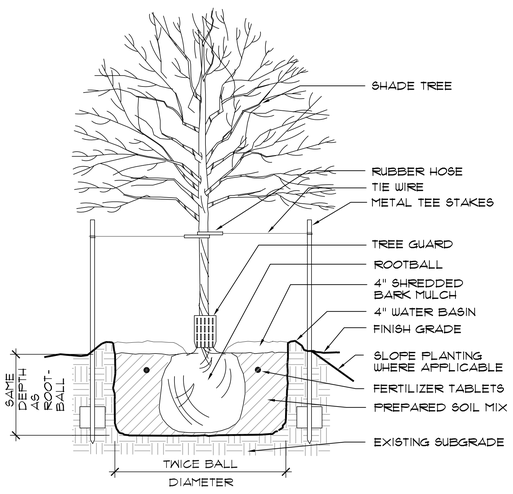
2 ALUMINUM EDGER
NTS



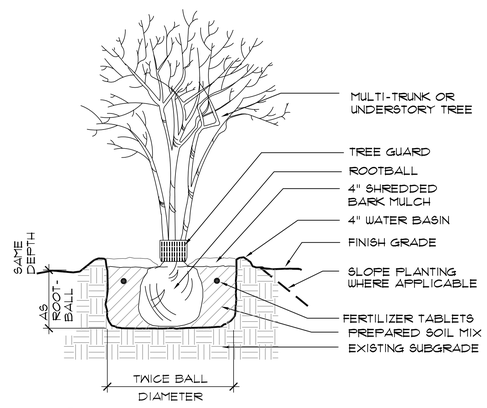
3 SHRUB BED DETAIL
NTS



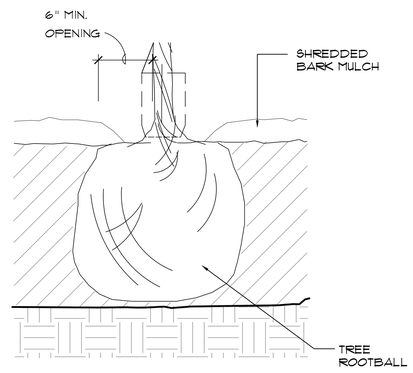
4 GRANITE MULCH
NTS



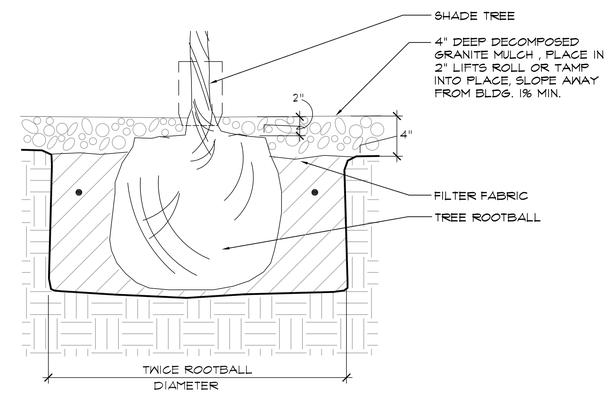
5 SHADE TREE PLANTING
NTS



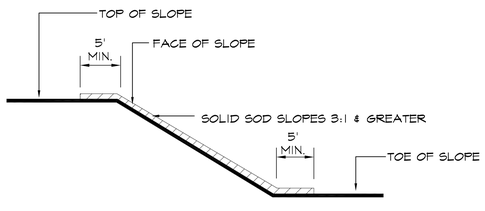
6 MULTI-TRUNK TREE PLANTING
NTS



7 TREE MULCH DETAIL
NTS



8 TREE DETAIL AT GRANITE MULCH
NTS



9 SOLID SOD ON SLOPES
NTS

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NO	DATE	DESCRIPTION
1	11/16/16	ADDENDUM #1

SHEET TITLE
LANDSCAPE DETAILS

SHEET NO
L4.0