**General**
- Sheet Set: A
- Date: 12-22
- Project: Lake Corpus Christi State Park
  - Restroom Replacement
  - Project Number 1210196A

**Architectural**
- Sheet: A
- Date: 12-22
- Project: Lake Corpus Christi State Park
  - Restroom Replacement
  - Project Number 1210196A

**Structural Notes**
- Sheet: A
- Date: 12-22
- Project: Lake Corpus Christi State Park
  - Restroom Replacement
  - Project Number 1210196A
1. **(Straw Wattle Detail)**
   - Place straw wattle at inside edge of temporary construction fence.

2. **Concrete Washout Pit**
   - Concrete washout pit notes:
     1. Actual layout is determined in the field.
     2. Contracted to place as many sand bags as necessary to enclose the plastic lining material at all times.
     3. Liners will be removed if work so indicated.
     4. Pit may be used after concrete is hard poured and washout is complete.
     5. Refer to this manual for additional information and materials removal is necessary in the day shown above the manual can be found in the project C111.

3. **Paint and Stucco Washout Pit**
   - Paint and stucco washout pit notes:
     1. Actual layout is determined in the field.
     2. Contracted to place as many sand bags as necessary to enclose the plastic lining material at all times.
     3. Liners will be removed if work so indicated.
     4. Pit may be used after concrete is hard poured and washout is complete.
     5. Refer to this manual for additional information and materials removal is necessary in the day shown above the manual can be found in the project C111.
Utility Plan Notes


2. The location of existing underground utilities shown on this sheet is determined from data received from owner and the best information available at the time of survey. Any loss or damage to these utilities is the sole responsibility of the owner. The contractor is responsible for the removal of underground utilities prior to excavation, notification of all utilities shall be given prior to commencing work on the project.

3. Force Main Note: Force Main shall be 2" JM Eagle, Green Colored, Gasketed, SDR-21 PVC pipe marked "FORCED SEWER" or approved equal.

4. The contractor is responsible for any and all damage to existing utilities that are to remain and the contractor shall remove all damaged utilities to their original location at no cost to the Owner.

5. Removal of the above-mentioned underground utilities is required to comply with a Texas Parks and Wildlife contract permit for the project and will be performed by a professional contractor retained by the Owner. All existing underground utilities shall be marked prior to commencing work on the project.

6. All pipes and valves are to be installed and tested in accordance with Texas Code of Environmental Health Ordinance.

7. Contractor shall remove all existing force main flow lines before commencing construction.

8. All existing force main flow lines shall be cut in at a 45° angle.

9. Sanitary sewer discharge lines to existing sewer shall be provided with elbows to not more than 12 feet above.

10. All manholes, fire hydrants, valve boxes, etc., located in the easais shall have a 12" curb stop around it.

11. Any water lines are installed in the vicinity of sewer lines. Such installation shall be in strict accordance with the Texas Department of Health rules and regulations for public water systems.
NOTE:
1. CROSS SLOPE OF SIDEWALK SHALL BE 1:50 MAXIMUM.
2. SEE PLANS FOR WIDTH.
3. SIDEWALK SHALL BE 4" 4000 PSI CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
4. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
5. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.
6. DOWEL INTO EXISTING SIDEWALK WITH 24" NO.4 @ 12" ON CENTER.
7. REFERENCE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
8. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
9. ALL JOINTS TO BE SEALED.
LAKE CORPUS CHRISTI STATE PARK
RESTROOM REPLACEMENT
PROJECT NUMBER 1210196A

Preface

Glossary

Standard Notations

Process Equipment Instrumentation

General Information

The lift station is located on the west side of the property, adjacent to the existing lift station building.

The lift station will be constructed on an existing concrete pad and will be equipped with a new lift station for the following equipment:

- A new 25 HP pump
- A new control panel
- New electrical and instrument wiring
- New instrumentation and control system

The pump will be a submersible type with a capacity of 25 HP and will be connected to the existing lift station building.

The control panel will be a new control panel for the lift station and will contain all necessary controls for the operation of the pump.

The electrical and instrument wiring will be new and will be installed according to the latest electrical codes.

The instrumentation and control system will be new and will include all necessary sensors, transmitters, and control devices for the operation of the pump.

The lift station will be located approximately 200 feet from the existing lift station building and will be connected to the existing lift station building by a new 25 HP pump.

The lift station will be constructed on an existing concrete pad and will be equipped with a new lift station for the following equipment:

- A new 25 HP pump
- A new control panel
- New electrical and instrument wiring
- New instrumentation and control system

The pump will be a submersible type with a capacity of 25 HP and will be connected to the existing lift station building.

The control panel will be a new control panel for the lift station and will contain all necessary controls for the operation of the pump.

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The lift station will be located approximately 200 feet from the existing lift station building and will be connected to the existing lift station building by a new 25 HP pump.
NOTES:

1. This lift station control panel installation detail is for coastal locations.
2. Install the lift station control panel face so the front of the enclosure faces away from the ocean or away from the direct sea spray.
3. Ensure proper ventilation and sealing of the enclosure to protect against moisture and corrosion.
4. Use appropriate materials that meet corrosion resistance requirements for coastal environments.
5. Follow local electrical codes and regulations for installation and grounding of the control panel.
6. Perform regular maintenance to check for any signs of corrosion or damage and replace parts as necessary.
7. Coordinate with the facility manager for specific installation instructions and requirements.
POWER POLE W/ TRANS POD
15601
105.61
CP B/SPIKE SET [100D NAIL]
15602
112.78
CP B/SPIKE SET [100D NAIL]

PHASE 1: NEW RESTROOM BUILDING
NEW CONCRETE PAVING; REF. CIVIL

PHASE 2: EXISTING BUILDING TO BE DEMOLISHED

PHASE 1: NEW PARKING; REF. CIVIL

57' - 2 1/4" 49' - 11 1/8"

NEW LIFT STATION WITH GRAVEL BED SURROUND

PROPOSED LOCATION OF GC TRAILER AT EXISTING RV CAMPSITE; COORDINATE WITH PARK

PHASE 1 CONSTRUCTION FENCING/LIMITS OF DISTURBANCE

EXISTING ASPHALT ROAD TO REMAIN OPEN DURING PHASE 1 CONSTRUCTION

EXISTING HANDICAPPED PARKING SPACE TO REMAIN; REMOVE ADA SIGNAGE/MARKINGS

PHASE 2
EXISTING CONC. SLAB; TO BE DEMOLISHED BY OWNER PRIOR TO PHASE 1

EXISTING ASPHALT ROAD
EXISTING CONC. STEPS AND WD. RETAINING WALLS TO BE DEMOLISHED PHASE 2
EXISTING ASPHALT ROAD TO REMAIN OPEN DURING PHASE 1 CONSTRUCTION

EXISTING RESTROOM AND PATHWAYS TO REMAIN OPERATIONAL AND ACCESSIBLE DURING PHASE 1

PROPOSED PHASE 1 STAGING AREA

PHASE 2 CONSTRUCTION FENCING/LIMITS OF DISTURBANCE

GRAVEL BED; REF. LANDSCAPE OUTDOOR SHOWER

BASE BID: NEW LIFT STATION WITH LOCKABLE ACCESS PANELS; REF CIVIL

BID ALT 1: ADD MECHANICAL YARD MASONRY ENCLOSURE, METAL GATE G - 1, CONCRETE PAD/FOOTINGS
LOCKABLE METAL SWING GATE

2X2 STEEL POSTS
2X6 CEDAR PLANKS
SWITCHGEAR RACK, REF. ELEC.

2X2 STEEL POSTS
2X6 CEDAR PLANKS

N-S AXIS
VFY 25.00°
FIN. FLOOR 0' - 0"

Level 2 9' - 0"
T.O. Parapet 12' - 0"
Level 4 10' - 0"

A201  GALVALUME STANDING SEAM METAL ROOF
   ACRYLIC PANEL/S.S. WOVEN WIRE MESH SCREENING CLERESTORIES
   SALTILLO TILE VENEER WITH SMOOTH TROWEL CEMENT PLASTER OVER CURVED NOTCHED MODIFIED THINSET
   CEDAR CLAD STEEL TUBE CMU BENCH WITH SALTILLO TILE VENEER

FINISH GRADE, REF. CIVIL

FIELD COORDINATE TILE LAYOUT WITH ARCHITECT BEFORE SETTING TILE

CONTROL JOINT

Vents, Stack - Top View

SALTILLO TILE VENEER With SMOOTH TROWEL CEMENT PLASTER OVER CURVED NOTCHED MODIFIED THINSET

VENT STACK

CONTROL JOINT

CONTROL JOINT IN CORNER AT WALL BEYOND

FIELD COORDINATE TILE LAYOUT WITH ARCHITECT BEFORE SETTING TILE

EXHAUST OPENING
**Section 1: Structural Notes**

A. The contractor shall compare the architectural, structural, mechanical, and/or electrical drawings and submittals to the requirements and standards stated herein and shall ensure that the work is in accordance with the referenced document.

B. Mechanical and structural drawings are to be provided in accordance with Section 3.5 of ACI 530.01 and the referenced geotechnical report.

C. The structural contractor shall verify that the structural drawings are consistent with the referenced geotechnical report. Any conflicts or discrepancies shall be noted on the submittals.

### Section 2: Concrete Masonry

- **Building Code Requirements for Concrete Masonry**
  - Concrete shall be specified in accordance with standards such as ASTM C90.
  - Concrete mix proportions shall be provided to ensure the specified compressive strength.

### Section 3: Foundation and Backfill

- **Backfill Material**
  - Shall not be placed against foundation walls until all supporting backfill is placed.
  - Backfill shall be placed simultaneously along both sides so that the backfill limit is within 4'-0" of the foundation walls.

### Section 4: Seismic Loads

- **Seismic Response Coefficients**
  - Cs = 0.04
  - S1 = 0.023
  - Ss = 0.075

### Section 5: Fire Protection

- **Fireproofing**
  - Fireproofing shall be provided in accordance with NFPA 220.
  - Fireproofing materials shall be specified in the submittals.

### Section 6: Safety Precautions

- **Oversite and Programs**
  - Safety measures including, but not limited to, adherence to all OSHA guidelines.
  - The contractor shall ensure that all safety precautions are followed.

---

**Table of Materials:

<table>
<thead>
<tr>
<th><strong>Location</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Footings</td>
<td>3000 NWT 1&quot; 3-5</td>
</tr>
<tr>
<td>普通 reinforcement</td>
<td>6 bars 7&quot; and 2&quot; 10</td>
</tr>
<tr>
<td>普通 reinforcement</td>
<td>5 bars 7&quot; and 1&quot; 10</td>
</tr>
<tr>
<td>普通 reinforcement</td>
<td>6 bars 7&quot; and 2&quot; 10</td>
</tr>
</tbody>
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---

**Figure 1: Foundation Details**

- Foundation details shall be in accordance with the referenced geotechnical report.

---

**Figure 2: Structural Drawings**

- The structural drawings shall be submitted to the architect for review and approval.

---

**Figure 3: Anchor and Dowel Installation**

- Anchors and dowels shall be of the size and embedment shown on the structural drawings.

---

**Figure 4: Welding of Reinforcing Steel**

- Welding of reinforcing steel is not permitted unless specifically shown on the structural drawings.

---

**Figure 5: Seismic Protection**

- Seismic protection shall be provided in accordance with the referenced seismic code.

---

**Figure 6: Fireproofing**

- Fireproofing shall be provided in accordance with NFPA 220.

---

**Figure 7: Safety Precautions**

- Safety measures including, but not limited to, adherences to all OSHA guidelines.

---

**Figure 8: OSHA Guidelines**

- OSHA guidelines shall be followed in accordance with the referenced code.

---

**Figure 9: Structural Tests**

- Structural tests shall be performed in accordance with the referenced code.

---

**Figure 10: Concrete Mix Proportions**

- Concrete mix proportions shall be provided to ensure the specified compressive strength.

---

**Figure 11: Foundation Details**

- Foundation details shall be in accordance with the referenced geotechnical report.
**C. Structural steel connections not specifically detailed on the Structural Drawings**

1. Erection tolerances of anchor bolts, embedded items, and all structural steel submitted for the Architect's files.
2. Sealed calculations for all connections designed by the Contractor shall be provided to the Architectural Drawings for other items of the Structural Drawings.
3. Wood member that form supports of buildings, balconies, porches, or similar structures on concrete or masonry walls shall be hot dip galvanized or stainless steel.
4. Plates shall then be grouted with a non-shrink, high strength nonmetallic grout.
5. Wood member that form supports of buildings, balconies, porches, or similar structures on concrete or masonry walls shall be hot dip galvanized or stainless steel.
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9. Wood member that form supports of buildings, balconies, porches, or similar structures on concrete or masonry walls shall be hot dip galvanized or stainless steel.
10. Plates shall then be grouted with a non-shrink, high strength nonmetallic grout.

**Structural Steel Connections**

1. Erection tolerances of anchor bolts, embedded items, and all structural steel submitted for the Architect's files shall be in accordance with the Texas Department of Insurance (TDI) Windstorm Inspection Requirements.
2. Steel Connections shall be designed for the scheduled shear force.
3. Where indicated, connections shall be designed for the scheduled shear force.
4.任何其他钢种应符合ASTM A36规范。
5. Where indicated, connections shall be designed for the scheduled shear force.
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3. Where indicated, connections shall be designed for the scheduled shear force.
4. Any other steel shall conform to ASTM A36规范。
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VERIFICATION AND INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL (AISC 360-16 Tables N5.6)

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Section</th>
<th>Requirement</th>
<th>Recommended Practice</th>
<th>Reference</th>
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<tbody>
<tr>
<td>A. Visual inspection of bolted connections</td>
<td>1705.2.1</td>
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<td>X</td>
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<td>B. Fastener selection and location</td>
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<td>YES</td>
<td>X</td>
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<td>C. Precautions for welding termites and other</td>
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<td>D. Joint preparation</td>
<td>1705.2.1</td>
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<td>E. Fastener orientation</td>
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<td>F. Torque</td>
<td>1705.2.1</td>
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<td>G. Flatness</td>
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<td>H. Fastener shear capacity</td>
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<td>I. Load testing</td>
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<td>J. Fastener category</td>
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<td>K. Fastener torque</td>
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<td>M. Fastener pretensioning</td>
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<td>Q. Fastener pretensioning</td>
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<td>Y. Fastener pretensioning</td>
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<tr>
<td>Z. Fastener pretensioning</td>
<td>1705.2.1</td>
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<td>X</td>
<td>AISC 360-16</td>
</tr>
</tbody>
</table>

**Notes:**
- The above tables are excerpts from a larger document detailing verification and inspection tasks for structural steel welding.
- Task descriptions and requirements are based on AISC 360-16, which is a standard for the design and construction of steel structures.
- Recommended practices may vary depending on project specifications and code requirements.

**References:**
- AISC 360-16: Specification for Structural Steel Buildings
- AWS D1.1: Structural Welding Code - General Structures
- AWS D1.4: Structural Welding Code - Steel Structures
- AISC 360-16 Table N5.4: Inspection and Test Requirements for Welding of Structural Steel
- AISC 360-16 Table N5.6: Inspection and Test Requirements for Bolted Connections of Structural Steel

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1. Inspection tasks listed in the table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI).
2. The fabricator and erector are responsible for all inspection tasks outlined in AISC 360-16.
3. The fabricator and erector shall verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection records to the owner.
4. A Special Inspector shall verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection records to the owner.
5. The fabricator and erector shall verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection records to the owner.
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**VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (TMS 602-16 Table 6)**

<table>
<thead>
<tr>
<th>Verifcation and Inspection of Masonry</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pullout strengths of anchor plate and masonry mortar.</td>
<td>Required</td>
<td>TMS 602.6A.1.5</td>
</tr>
<tr>
<td>2. Pullout strengths of anchor plate and masonry mortar.</td>
<td>Required</td>
<td>TMS 602.6A.1.5</td>
</tr>
<tr>
<td>3. Pullout strengths of anchor plate and masonry mortar.</td>
<td>Required</td>
<td>TMS 602.6A.1.5</td>
</tr>
</tbody>
</table>

**INSPECTION TASKS**

<table>
<thead>
<tr>
<th>Inspection Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Load Testing shall comply with the following:</td>
<td>- Apply test loads with a calibrated hydraulic ram.</td>
</tr>
<tr>
<td>2. The test load shall be equal to 0.75 times the ultimate tensile strength of the masonry mortar.</td>
<td>- -</td>
</tr>
<tr>
<td>3. The test load shall be equal to 0.75 times the ultimate tensile strength of the masonry mortar.</td>
<td>- -</td>
</tr>
<tr>
<td>4. The test load shall be equal to 0.75 times the ultimate tensile strength of the masonry mortar.</td>
<td>- -</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF INSULATED SHEET METAL CONSTRUCTION (TMS 602-16 Table 7)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Insulated Sheet Metal</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Insulated sheet metal shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.6 A &amp; 2.6 B</td>
</tr>
<tr>
<td>2. Insulated sheet metal shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.6 A &amp; 2.6 B</td>
</tr>
<tr>
<td>3. Insulated sheet metal shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.6 A &amp; 2.6 B</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF CEMENT CONCRETE AND COMPOSITE CONCRETE CONSTRUCTION (TMS 602-16 Table 8)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Cement Concrete and Composite Concrete</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Concrete reinforcing steel and prestressing tendons shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Concrete reinforcing steel and prestressing tendons shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Concrete reinforcing steel and prestressing tendons shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF REINFORCED CONCRETE CONSTRUCTION (TMS 602-16 Table 9)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Reinforced Concrete</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Reinforcement shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Reinforcement shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Reinforcement shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF GLASS CONSTRUCTION (TMS 602-16 Table 10)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Glass</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glass panels shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Glass panels shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Glass panels shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF SOILS CONSTRUCTION (TMS 602-16 Table 11)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Soils</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Soils shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Soils shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Soils shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION FOR WIND RESISTANCE (IBC 1705.11)**

<table>
<thead>
<tr>
<th>Verification and Inspection for Wind Resistance</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wind-resisting components in all structures:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors, and components</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Verify compliance of the following during construction:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>4. Verify classification and testing of compacted fill materials.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>5. Verify that the following are inspected and tested:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF WOOD (IBC 1705.5)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Wood</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wood framing members shall be installed in accordance with the manufacturer's printed installation instructions.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors, and components</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Verify classification and testing of compacted fill materials.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>4. Verify that the following are inspected and tested:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION OF BUILDINGS AND STRUCTURES (IBC 1705.11)**

<table>
<thead>
<tr>
<th>Verification and Inspection of Buildings and Structures</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors, and components</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Verify classification and testing of compacted fill materials.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Verify that the following are inspected and tested:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION FOR WATER RESISTANCE (IBC 1705.12)**

<table>
<thead>
<tr>
<th>Verification and Inspection for Water Resistance</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Water-resisting components in all structures:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors, and components</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Verify classification and testing of compacted fill materials.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>4. Verify that the following are inspected and tested:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>

**VERIFICATION AND INSPECTION FOR FIRE RESISTANCE (IBC 1705.13)**

<table>
<thead>
<tr>
<th>Verification and Inspection for Fire Resistance</th>
<th>Frequency</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fire-resisting components in all structures:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>2. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors, and components</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>3. Verify classification and testing of compacted fill materials.</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
<tr>
<td>4. Verify that the following are inspected and tested:</td>
<td>Required</td>
<td>TMS 602-16 Art. 2.3 A</td>
</tr>
</tbody>
</table>
PLAN NOTES:
1. POSITIVE LOADS ARE DOWNWARD FORCES & NEGATIVE LOADS ARE UPWARD FORCES.
1. Finish Floor Elevation = Top of Concrete Elevation (T.O.C. EL.) = Finish Floor. Unless noted otherwise.

2. Top of Concrete Elevation (T.O.C. EL.) = Finish Floor. Unless noted otherwise.

3. See 3/S301 for Slab Joints.

4. Typical Concrete Slab Thickness is 5" (Overall), unless noted otherwise.

5. Centerlines of the Column.

6. Component of 3D modeling is not to be used for actual construction. Use as reference only.

7. Support pipe Fig. 7/10 for column.

8. Support pipe Fig. 7/10 for column.

9. Support pipe Fig. 7/10 for column.

10. Support pipe Fig. 7/10 for column.
2x8 WOOD RAFTERS @ 16" O.C.

1/2" PLYWOOD ROOF DECK - TYP.

T.O.S. EL. = 9'-8 1/8"

1

S501

2

S501

4

S501

6

S501

HSS10x6x5/16 (LSV)

HSS14x6x3/8

T.O.PW.D. EL. =

38'-4"

24'-3"

5'-1 5/16" 25'-11 3/4" 5'-1 7/16"

7'-10"

4'-8"

19'-8"

HSS14x6x3/8

DOUBLE 2x8's

HSS4x3x1/4

7/S402

SIM

PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ROOF SLOPES, HIPS, VALLEYS, AND RIDGES NOT SPECIFICALLY DIMENSIONED.

2. VERIFY AND COORDINATE ALL DIMENSIONS W/ ARCHITECTURAL DRAWINGS.

3. ALL STICK FRAMING FOR CANOPIES, PORCHES, AND OVERHANGS ARE 2x6 @ 24" O.C., UNLESS NOTED OTHERWISE.

4. ALL OVERBUILD FRAMING MEMBERS ARE 2x6 @ 24" O.C., UNLESS NOTED OTHERWISE.

5. ROOF DIAPHRAM SHALL BE INSTALLED AS DIAPHRAM AS DEFINED BY BUILDING CODE.
1/2" PLYWOOD ROOF DECK - TYP.

2x12 WOOD RAFTERS @ 12" O.C.

2x12 WOOD RAFTERS @ 16" O.C.

T.O.S. EL. =
14'-2 1/2"

T.O.P.W.D. EL. =
38'-4"
TYPICAL SLAB-ON-GRADE DETAIL

SECTION

TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL

TYPICAL SLAB-ON-GRADE DETAIL

TYPICAL HORIZONTAL FOOTING PENETRATION DETAIL

DOWEL SCHEDULE
1. EXTERIOR WALL JAMB REINFORCING DETAILS

   a. FOR TYPE-1 OPENINGS, JAMB REINFORCING TO BE PROVIDED AS SHOWN.
   b. FOR TYPE-2 OPENINGS, JAMB REINFORCING TO BE PROVIDED AS SHOWN.

2. MASONRY DOWELS SHALL BE TIED IN OR DRILLED AND ADHERED.

   a. FOR TYPE-1 OPENINGS, LINTEL SHALL SPAN ACROSS BOTH OPENINGS.
   b. FOR TYPE-2 OPENINGS, LINTEL SHALL SPAN ACROSS BOTH OPENINGS.

3. HOLES FOR MASONRY DOWELS MUST BE CLEANED WITH A WIRE BRUSH AND COMPRESSED AIR.

   a. SINGLE DOWEL AT WALL INTERSECTIONS.
   b. SINGLE DOWEL AT WALL INTERSECTIONS.

4. CMU WALL JAMB REINFORCING DETAIL - CORNER & TIE-CONDITIONS

   a. SINGLE DOWEL AT WALL INTERSECTIONS.
   b. SINGLE DOWEL AT WALL INTERSECTIONS.

5. CMU WALL LAP SPlice SCHEDULE

   a. SINGLE DOWEL AT WALL INTERSECTIONS.
   b. SINGLE DOWEL AT WALL INTERSECTIONS.
NOTES:

1. LINTELS SHALL REMAIN SHORED UNTIL MASONRY CONSTRUCTION ABOVE HAS CURED FOR A MINIMUM OF 14 DAYS.
2. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZE AND LOCATION.
3. VERTICAL CONTROL JOINTS SHALL NOT CROSS LINTEL REINFORCING.

1/S401
8" OR 12" CMU WALL VERT.
REINF. - SEE
BAR POSITIONERS
AT 48" O.C. MAX.
12" CMU WALL
2 7/8" 5 7/8"
TYP. SPACING
EQ EQ
3" 6" 3"
PROVIDE BAR POSITIONERS
AT TOP AND BOTTOM OF LAP
SPLICES AND AT 48" O.C. MAX.
VERTICALLY.

CONTROL JOINT
IN BOND BEAM
TO ALIGN W/
CONTROL JOINT
IN CMU
BOND BEAM
REINFORCING -
SEE
DISCONTINUE
BOND BEAM
REINFORCING
@ CONTROL
JOINT
NOTE:
SEE ((ARCHITECTURAL DRAWINGS))
FOR CONTROL JOINT SPACING.

1/S402
HORIZONTAL JOINT
REINF. @ 16" O.C., U.N.O.
CONTROL JOINT
CMU WALL VERT.
REINF. - SEE
PRE-FABRICATED
JOINT REINFORCING
SECTIONS @ CORNERS AND
TEES (NOT SHOWN):
PLAN
TYPICAL VERT.
REINF.
AT CORNERS
JOIN SEALANT - SEE
ARCH'L DRAWINGS &
SPECIFICATIONS

NOTE:
SEE ((ARCHITECTURAL DRAWINGS))
FOR CONTROL JOINT SPACING.

1/S401
PL 3/8x6 x 1'
- 4"
W/ 2
- #4 x 2'
- 0" D.B.A.
4" 4" 4" 4"
ELEVATION "A"
BEARING PL 1/2"x7 1/2"
x 0'-8" N.S.
GROUT AS REQUIRED
GROUT 4 CELLS FULL
HEIGHT UNDER BEARING -
REINF. W/ 1-#4 VERT.
IN EACH CELL
MASONRY VENEER -
SEE ARCH'L
1-5/8"Ø x 1'-0" ANCHOR
BOLT EA. SIDE OF BEAM
8x16x2'-0" BOND BEAM
MADE W/ KNOCK OUT
LINTEL BLOCKS - REINF.
W/ 2-#4 TOP & BOTTOM
(CUT TOP BLOCK AS
REQ'D. FOR COURSING)
STL. BEAM -
SEE PLAN.

KNOCK-OUT WEB
BOND BEAM
EXTEND VERTICAL REINF.
BEYOND THROUGH BOND
BEAM
2-#4 CONT.
WALL IS CONTINUOUS
WHERE SHOWN
1" MAX.
OPENINGS ≤ 6'-0"
6'-0" < OPENINGS ≤ 12'-0"
TROUGH BLOCKS
KNOCK-OUT WEB
BOND BEAM
W/ 2-#5 CONT.
2-#5 CONT.
VERTICAL WALL
REINF. BEYOND
SEE
NOTES:
SEE ARCH FOR THICKNESS AND SLOPE
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

SEE ARCH FOR THICKNESS AND SLOPE
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

FOR ADD’L INFO. SEE 4/S501
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

FOR ADD’L INFO. SEE 4/S501
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

SEE ARCH FOR THICKNESS AND SLOPE
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

SEE ARCH FOR THICKNESS AND SLOPE
#5 AT 12" O.C. E.W.
#5 DOWEL AT 16"

FOR ADD’L INFO. SEE 6/S501
FOR ADD’L INFO. SEE 1/S502
1. Inline exhaust fans with two speed fans. Fan operation suspended from structure.
2. Suit room exhaust support duct to wall with 1/2" dia. galvanized flange and use unistrut, secure with bolts. Use a 15.25" dia. 15". This exhaust duct shall be insulated with unfaced fiberglass. Secure with 1 1/2" x 1 1/2" x 1/4" angle iron using sheet metal screws.
3. Electric air distribution fan motors mounted to wall. (Typical)
4. Occupancy sensors by electrical contractor.
5. Fan speed controller panel, coordinates location and installation with electrical contractor prior to construction.
6. Thermostat refer to electrical drawing for thermostat schematic.
7. Duct riser in stack. Support duct to wall with hot dipped galvanized angle iron and unistruct. Secure duct to 1 1/2" x 1 1/2" x 1/4" angle iron with sheet metal screws. Secure unistruct to wall with lag bolts.
8. Project number: 1210196A
9. HVAC plan
10. Date: 12-04-2020
11. Designed by: D.M.
12. Drawn by: D.M.
13. Reviewed by: 
14. Revised: 
15. Phases: 100%
16. Exhauss fans: Fans shall have two speed fan operation and shall be controlled by occupancy sensors and thermostats.
17. OCCUPANCY SENSORS IN MEN'S, WOMEN'S AND FAMILY RESTROOMS SHALL ENERGIZE RESPECTIVE T1 THERMOSTAT. THERMOSTAT SHALL ENABLE STAGE 1 MINIMUM FAN SPEED OPERATION. THERMOSTAT T1 SHALL ENABLE STAGE 2 MAXIMUM SPEED OPERATION WHEN SPACE TEMPERATURE RISES ABOVE SET POINT, 80 DEG. F. (ADJ.). FAMILY RESTROOMS WILL HAVE STAGE 1 DIRECT FAN CONTROL BASED ON OCCUPANCY ONLY. STAGE 2 FAN OPERATION WILL BE CONTROLLED BY SPACE TEMPERATURE.
18. Electric radiant heater (RH) bracket mounted to wall. (Typical)
20. Fan speed controller panel, coordinates location and installation with electrical contractor prior to construction.
21. Thermostat refer to electrical drawing for thermostat schematic.
22. Thermostat sensor probe location. Provide sensor mounting clips secured to wall.
23. Provide perforated stainless steel protective cover. Refer to Detail 5/M301.
24. General contractor to provide undercut door.
25. Electric panel.
26. Electrical panel.
27. Family 1, Family 2.
28. Venice.
29. EXHAUST AIR GRILLE. COORDINATE LOCATIONS AND PLACEMENT IN TILE WALL WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
30. 4" round rigid metal dryer vent to dryer vent cap on exterior wall. Provide duct fittings and offset as required. Provide metal duct cap on exterior wall. Provide duct fittings and offset as required. Provide metal duct cap on exterior wall. Coordinate exact location with general contractor and architect prior to construction.
MECHANICAL GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
2. SLIGHT CARE IS NEEDED DURING ATTACHMENT TO CONSTRUCTION.
3. PROVIDE FLEXIBLE CONNECTION AT DUCT ATTACHMENTS TO EQUIPMENT.
4. HVAC EQUIPMENT SUBMITTED OTHER THAN SCHEDULED MANUFACTURER'S SHALL NOT EXCEED PHYSICAL DIMENSIONS DUE TO SPACE LIMITATIONS.

MODEL NO. WEIGHT (LBS.) SERVICE AREA MAX B.H.P. GRADE

EF-1, EF-2

4. PROVIDE TWO SPEED CONTROLLERS, LOW-COUD VOLTAGE OR EQUIVALENT.
5. PROVIDE 20U.S. GAUGE STEEL FOR AIR Device DESIGNATION.
6. PROVIDE TWO SPEED OPERATING OCCUPANCY SENSOR AND THERMOSTAT.

AIR DEVICE SCHEDULE

DIFFUSOR MOUNTING MANUFACTURER & DESIGNATION SERVICE NECK SIZE TYPE DESIG.

FREE AREA (SQ. FT.) CODE REVIEW

NOTES:

* THIS IS A GENERAL LEGEND. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

ELECTRIC RADIANT HEATER SCHEDULE

WALL CAP SCHEDULE

DESIGNATION MANUFACTURER & NOTES MANUFACTURER & NOTES MANUFACTURER & NOTES MANUFACTURER & NOTES MANUFACTURER &

ENGINEER'S DESCRIPTION SCALE: NOT TO SCALE 5 DETAIL - TEMPERATURE SENSOR PROBES

1. TEMPERATURE SENSOR PROBE.
2. RIGID PROBE MOUNTING CLIP, BAPI, INC. OR EQUAL, SECURE TO WALL WITH STAINLESS STEEL TAMPER PROOF FASTENERS. (TYPICAL)
3. MINIMUM 1" SCHEDULE 40 PVC SLEEVE. COORDINATE SLEEVE DIAMETER SIZE AROUND SLEEVE AIR TIGHT ON BOTH SIDES OF WALL.
4. PROVIDE STEEL ANGLE BLADE STOP, BOLT MOUNT, (TYPICAL)
5. FOR DUCT HEIGHTS MORE THAN 24" MAX.
6. PERFORATED 316 STAINLESS STEEL COVER. SIZE AND DEPTH AS REQUIRED (TYPICAL)
7. THIS IS A GENERAL LEGEND. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

1. ACOUSTICALLY INSULATED IN-LINE FAN HOUSING.
2. HANGER SUPPORT BRACKET. (TYPICAL)
3. DUCT. 4. MINIMUM 20U.S. GAUGE STEEL.
5. EQUIPMENT OUTLET/INLET.

FAN SCHEDULE

DESIGNATION CFM SPG BHP SPG/FT3 RPM BPD NO. A MFR GRADE

0.61 PA 144 2 1" TITUS 350RL-SS, 3/4" BLADE SPACING, 45° FIXED DEFLECTION, 316 STAINLESS STEEL CONSTRUCTION, WHITE FINISH

1. MANUAL OR AUTOMATIC STAGE-PURGE PUMP.
2. PROVIDE TWO SPEED CONTROLLERS, LOW-COUD VOLTAGE OR EQUIVALENT.
3. INSTALL AND SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE TWO SPEED OPERATING OCCUPANCY SENSOR AND THERMOSTAT.
PLUMBING GENERAL NOTES

1. ALL PLUMBING EQUIPMENT, FIXTURES AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES AND CODE REQUIREMENTS.
2. CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE WORK AS INTENDED AT NO INCREASE IN THE CONTRACT PRICE. ALL DAMAGED OR DISTURBED UTILITIES SHALL BE REBUILT OR MAINTAINED OR IS DIRECTED OTHERWISE BY OWNER'S AUTHORITY.
3. PROVIDE DETAILED SHOP DRAWINGS SUPERVISORY OF ALL PLUMBING INSTALLATION, FIXTURES AND MATERIALS INCLUDING ACCESSORIES AND CODE REQUIREMENTS.
4. PROVIDE DECORATIVE TRIM AROUND OPENINGS IN FINISHED AREAS. PROVIDE METAL BACKING SHEET AS WELL AS STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ALL ADDITIONAL FIXTURES.
5. PROVIDE DELIVERY NOTES - P201 PLUMBING SHEET NUMBER 3 SHOWER VALVES WILL BE INSTALLED WITHIN CMU BLOCK WALL. SHOWER VALVES, DIVERTER AND HAND HELD SPRAY HEADS. REFER TO DETAIL THIS DRAWING FOR VALVES AT ALL FIXTURES AND EQUIPMENT. PROVIDE VACUUM BREAKER STOPS AT ALL FIXTURES AND EQUIPMENT EXC. FOR VERTICAL CAUCHE
6. PROVIDE VIEGA COPPER STUB-OUTS WITH WALL PLATE FOR SUPPLY STOPS (TYP. FOR COUNTER TOP LAVS). PROVIDE METAL BACKING PANEL "P" PANEL "P1" CONDUITS (TYPICAL) ELBOWS IN ALL PEX TUBING USE LONG SWEEP
7. ANY WORK PERFORMED BY CONTRACTOR TO PROVIDE ADDITIONAL MATERIALS AND EQUIPMENT INCLUDING TANK, WATER SERVICE, SHOWERBASE, AND DECORATIVE TRIM. PROVIDED W/G PLUMBING CONTRACTOR'S COST AND RESPONSIBILITY TO CONSTRUCT THE WORK AS INTENDED AT NO INCREASE IN THE CONTRACT PRICE OF ANY ADDITIONAL MATERIALS AND EQUIPMENT PROVIDED INCLUDING TANK, WATER SERVICE, SHOWERBASE, AND DECORATIVE TRIM.
8. ALL PEX PIPING INSTALLED BELOW SLAB AND/OR WITHIN BLOCK WALL SHALL BE ENCASED WITHIN PVC CONDUIT OF APPROPRIATE SIZE, CONFIGURATION AND MATERIAL. CONTRACTOR SHALL VERIFY THAT A MEDIAN FLUID VELOCITY OF 2 FT./SEC. CAN BE ACHIEVED THAN 0.25 INCH PER FOOT UNLESS A CONFLICT EXISTS AND CONTRACTOR CAN VERIFY THAT A MEDIAN FLUID VELOCITY OF 2 FT./SEC. CAN BE ACHIEVED THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT. AT NO TIME SHALL SLOPE BE LESS THAN 0.25 INCH PER FOOT.
NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED INFORMATION.

GASKETED SCREWS (2" O.C. AROUND FLANGE PERIMETER)
DO NOT PENETRATE PURLINS OR DECK.

PIPE BOOT DECKTITE OR EQUAL
VENT PIPE AND/OR GAS PIPE

MOLDABLE ALUMINUM PIPE BOOT
BUTYL TAPE UNDER BASE OF BOOT
METAL ROOF PANEL.

ROUTE AS INDICATED
PAPER TO ARCHITECTURAL DRAWINGS FOR DETAILED INFORMATION.

VERIT THRU FLAT ROOF (VTR) DETAIL

PLUMBING FLOOR PLAN
PLUMBING FIXTURE BRANCH PIPE SIZE SCHEDULE

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<tr>
<th>DESCRIPTION</th>
<th>SANITATE</th>
<th>VENT</th>
<th>COLD WATER</th>
<th>HOT WATER</th>
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<td>WATER DEVICES</td>
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<td>TRAP</td>
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<td>CHASE</td>
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<tr>
<td>WASH OUT</td>
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<td>1 1/2&quot;</td>
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<tr>
<td>COMMERCIAL FOUNTAIN</td>
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PLUMBING APPRROVED MANUFACTURER SCHEDULE

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PLUMBING FIXTURE TALLY

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<th>Description</th>
<th>Accessories</th>
<th>Count</th>
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<tbody>
<tr>
<td>1</td>
<td>AMERICAN STANDARD</td>
<td>6590.001</td>
<td>Urinal, wall hung for flush valve, vitreous china, 15&quot; A.F.F.</td>
<td></td>
<td>ANTI-VANDAL</td>
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<tr>
<td>2</td>
<td>MOEN</td>
<td>6590.001</td>
<td>Same as SH-3 except installed to meet ADA/TAS requirements. Provide TMV-1 below jet water closet with elongated bowl, 1-1/2&quot; back and scoriated cover.</td>
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PLUMBING FIXTURE SCHEDULE

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<tr>
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<th>Model</th>
<th>Description</th>
<th>Accessories</th>
<th>Count</th>
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<tr>
<td>1</td>
<td>Watts</td>
<td>CA311</td>
<td>Concealed flushometer, 1.28 gpf, control stop, vacuum breaker and self cleaning filter.</td>
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<td>2</td>
<td>Armstrong</td>
<td>ZEMS6295</td>
<td>Operates in the range of 1.1 - 1.6 gpf.</td>
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<td>3</td>
<td>Smith</td>
<td>ZEMS6152AV-HET</td>
<td>Operates in the range of 1.1 - 1.6 gpf.</td>
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<td>4</td>
<td>Zurn</td>
<td>ZEMS6295/CARRIER-Watts</td>
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PLUMBING ABBREVIATIONS

<table>
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<tr>
<td>COMMERCIAL FOUNTAIN</td>
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</table>
Below floor, install within a 2" schedule 40 PVC conduit sleeve. Refer to civil.

Install shower mixing valve, diverter and hand shower within ADA/TAS approved location. Refer to architectural drawings for ADA/TAS valve mounting.

Install 26''x14'' stainless steel access panel. Provide tamper proof S.S. screws (4 top and bottom, 3 on sides).

Install pipe sleeve. Refer to P302.

Below floor, install 1/2" C and 3/4" H in 3" conduit sleeve for HW and for CW.

Below floor, install 1/2" TW in 1/2" C and 3/4" C for HW and for CW.

Install shower head valve, diverter and hand shower within ADA/TAS approved location. Refer to architectural drawings for ADA/TAS valve mounting.

Install 3/4" C and 3/4" H in 1" C and 3/4" C for HW and for CW.

Install 1" C and 1/2" H in 1" C and 3/4" C for HW and for CW.
Refer to civil for continuation.

Connect to trench drain outlet connection.

Coordinate connection location with trench drain.

Provide deep seal lift trap and trap guard. (Typical for all trench drains.)

Connect to trench drain outlet connection.

 Coordinate connection location with trench drain.

Provide deep seal lift trap and trap guard. (Typical for all trench drains.)

Owner furnished stacked washer/dryer.

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Coordinate connection location with trench drain.

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Coordinate connection location with trench drain.

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Provide deep seal lift trap and trap guard. (Typical for all trench drains.)

Owner furnished stacked washer/dryer.
4. **IN THE J-BOX AND IN THE WET WELL:** Seal the conduits from the cell foam to prevent the transmission of corrosive gases. Use Scotch Wrap 50 corrosion-resistant tape over these RMC conduits.

6. **INSTALL A NEMA 4X JUNCTION BOX WITH INTERIOR BACK PANEL FOR THE CONTROL PANEL ON THE SAME COMMON RACK SYSTEM. SIZE BOX PER N.E.C. FOR THE CONDUIT SIZES AND NUMBER OF CONDUCTORS & TERMINATIONS IN THE BOX.** The door shall be hinged, neoprene gasketed, and equipped with pad lockable closing hardware. All terminal blocks installed in the junction box.

7. **THE NEW DOUBLE-THROW, NON-FUSED DISCONNECT SWITCH SHALL BE A PIN AND SLEEVE STYLE RECEPTACLE OR TWIST-LOCK STYLE RECEPTACLE WITH A SEPARATE GROUND CONNECTION.** Pin and sleeve receptacles shall mate with TPWD's generator receptacle and be supplied in a weatherproof box with a weatherproof cover.

8. **THE NEW GENERATOR RECEPTACLE SHALL MATCH THE RATING OF THE STATION GENERATOR RECEPTACLE.** The receptacle shall be a pin and sleeve style receptacle or twist-lock style receptacle with a separate ground connection. Pin and sleeve receptacles shall mate with TPWD's generator receptacle and be supplied in a weatherproof box with a weatherproof cover.

**NOTES:**

- **1.** Provide a separate ground bus for the termination of the power wiring, surge protection, and lightning/surge protection. Use a separate ground connector for the termination of the power wiring, surge protection, and lightning/surge protection.

- **2.** For these two conduits: At the wet well, install Schedule 40 1/2" PVC conduit with 1-#6 AWG, insulated copper electrode conductor (GEC). Attach the GEC to the ground electrode wire using an exothermic weld.

- **3.** Provide ground bond to building steel, copper manifold, and water service pipe. See Note #6 for requirements.

- **4.** Lightning arrester / surge capacitor. Refer to Note #6 for requirements. See Notes #2 & #4. All connections to the sides of enclosures.

**ELECTRICAL SITE PLAN**

**WEST CHASE**

**EAST CHASE**

**LIFT STATION SUPPORT BACK DETAIL**

**LIFT STATION / SWITCHGEAR MOUNTING DETAIL**

**CONNECTED LOAD SUMMARY**

<table>
<thead>
<tr>
<th>LOAD ITEM</th>
<th>MAX. RATED LOAD</th>
<th>TOTAL CONNECTED LOAD</th>
<th>LOAD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN CIRCUIT BREAKER</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
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<tr>
<td>CIRCUIT BREAKER</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
</tr>
<tr>
<td>METER</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
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<tr>
<td>ELECTRICAL CONTROL ENCLOSURE</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
<td>120/240 V., 1Ø, 3W.</td>
</tr>
</tbody>
</table>

**ESTIMATED TOTAL CONNECTED LOAD 66.0 [KVA]**

**B. PROJECT DESIGN IS BASED UPON 2020 NFPA 70 AND 2018 IECC.**

**C. MOST EXISTING UNDERGROUND UTILITIES ARE NOT INDICATED.** (This indicates the general character and extent of work required. Refer to specifications for additional requirements.)

**DESIGNED BY:** [Name]

**DREW BY:** [Name]

**REVISED:** [Date]
## Electrical Panelboard Schedules

**LAKE CORPUS CHRISTI STATE PARK**

**RESTROOM REPLACEMENT**

**PROJECT NUMBER** 1210196A

### Panel: P

**Special Features:** NEMA-3R Rated Enclosure

**Job:** TPWD LAKE CC RESTROOM

**Cabinet:** SURFACE

**Mains:** LUGS

**Voltage:** 120/240 Single Phase

**Capacity:** 300A

### Panelboard Schedule

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<tr>
<th>Ext.</th>
<th>Load</th>
<th>CB</th>
<th>Ampacity</th>
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<th>Total Connected Load (VA)</th>
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**Total Connected Load (VA):** 680 VA

**Demand Load (VA):** 65,960 VA

**Total Connected Load (VA):** 67,650 VA