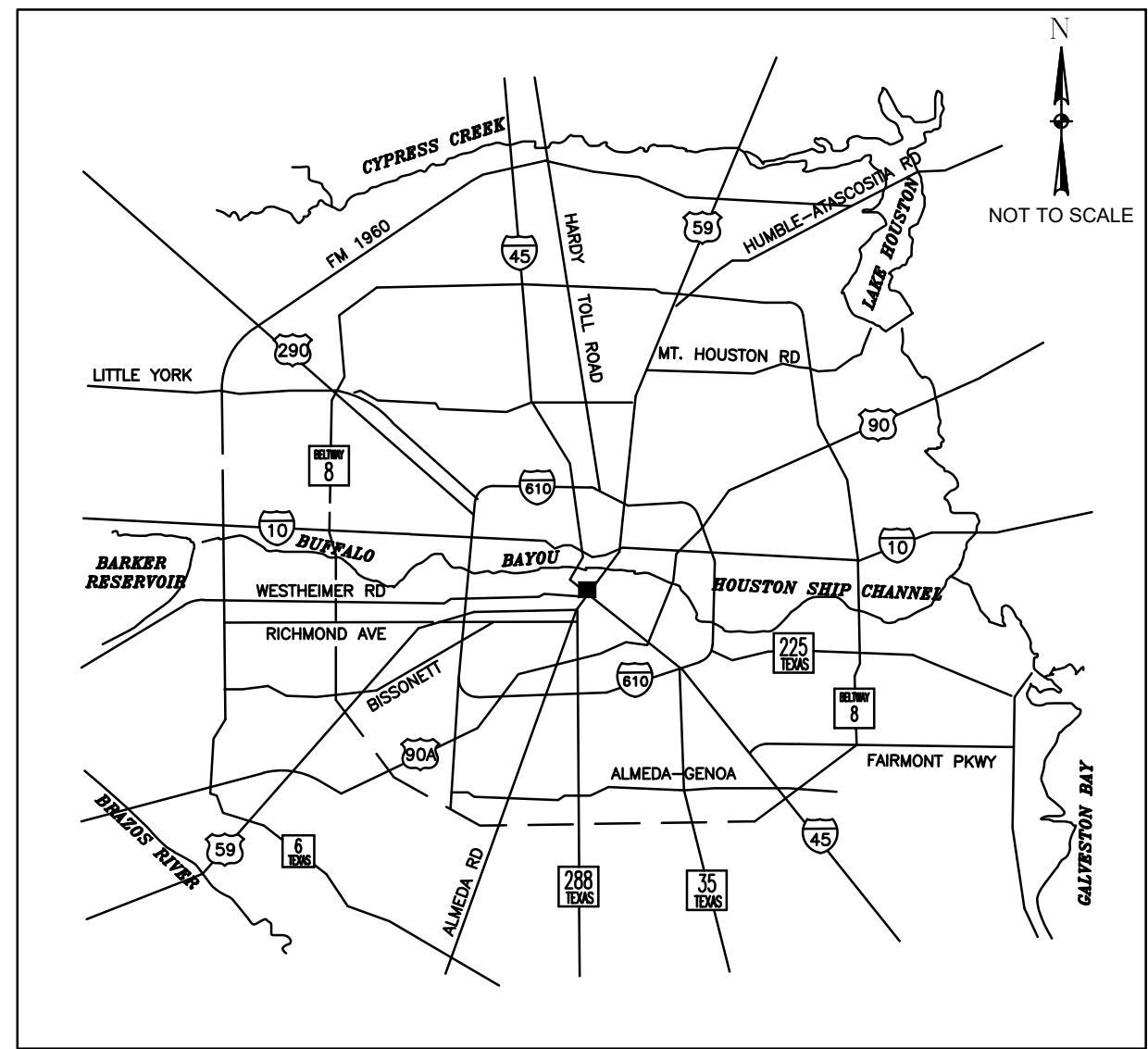


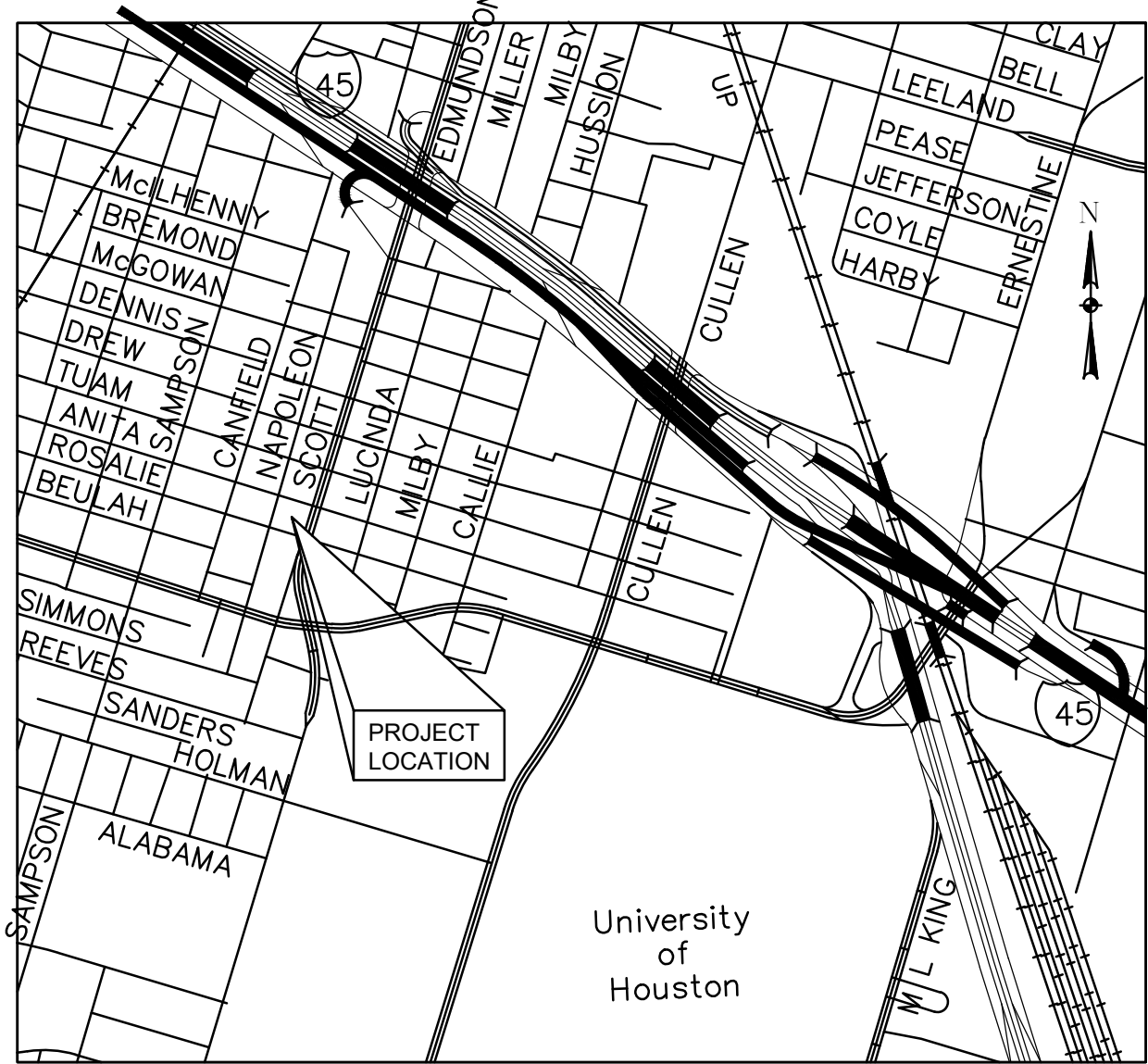
CITY OF HOUSTON
HOUSTON PUBLIC WORKS
CAPITAL PROJECTS

LIFT STATION REHABILITATION
AND RECONSTRUCTION DESIGN
- SCOTT ST. LIFT STATION No. 1

WBS NO. R-000267-127A-3



LOCATION MAP
KEY MAP NO 534-G & 494-X
GIMS MAP NO 5555C & 5456B
COUNCIL DISTRICT I



VICINITY MAP
KEY MAP NO 493Z
GIMS MAP NO 5456C



MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

DISTRICT
COUNCIL MEMBERS

- AMY PECK
DISTRICT A
- TARSHA JACKSON
DISTRICT B
- ABBIE KAMIN
DISTRICT C
- CAROLYN EVANS-SHABAZZ
DISTRICT D
- FRED FLICKINGER
DISTRICT E
- TIFFANY D. THOMAS
DISTRICT F
- MARY NAN HUFFMAN
DISTRICT G
- MARIO CASTILLO
DISTRICT H
- JOAQUIN MARTINEZ
DISTRICT I
- EDWARD POLLARD
DISTRICT J
- MARTHA CASTEX-TATUM
DISTRICT K

COUNCIL MEMBERS
AT-LARGE

- JULIAN RAMIREZ
POSITION 1
- WILLIE DAVIS
POSITION 2
- TWILA CARTER
POSITION 3
- LETITIA PLUMMER
POSITION 4
- SALLIE ALCORN
POSITION 5

QUIDDITY ENGINEERING
2322 W GRAND PARKWAY, SUITE
150, KATY, TX 77449
832-913-4000
TX FIRM NUMBER: 23290

SURVEYED BY:
FB NO.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026

PARKS-FORESTRY DEPT.

METRO

HOUSTON WATER

TRANSPORTATION & DRAINAGE OPERATIONS

CAPITAL PROJECTS

SURVEY

CITY ENGINEER DATE

DIRECTOR OF
HOUSTON PUBLIC WORKS

SHEET NO XX OF XX SHEETS

FOR CITY OF HOUSTON USE ONLY

TDLR EABPR

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NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: <u>JANUARY 2026</u>	DGN BY: <u>EMMARTINEZ</u>
JOB NO: <u>00050-0099-01</u>	DWG BY: <u>DTODDD</u>

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

INDEX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX

CATEGORY NO. **0-G-2** SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY

GENERAL CONSTRUCTION NOTES:

- Prior to bidding the project, the Contractor is required to visit the project sites. Contractor shall note any visible conflicts not shown in the drawings and bring to the attention of the Engineer prior to bidding the project. Should a construction conflict occur due to a visible conflict apparent at the time of bidding, all construction and engineering costs associated with the change shall be borne by the Contractor.
- Final grade all areas of the site as shown on the paving and grading layout after completion of all other construction activities. Thoroughly clean the site to remove all construction debris such as concrete rubble, rebar, etc. Hydromulch all areas which are disturbed during construction that are not to be paved.
- Provide isolation joints between all proposed sidewalks and all slabs, structures and pavements. Also provide isolation joints where pipes penetrate concrete slabs or pavement. Isolation joints shall be constructed as shown in the construction drawings.
- Contractor shall comply with O.S.H.A regulations and Texas state law concerning trench safety systems.
- Unless otherwise shown on the construction drawings, all pipe centered in walls shall have a wall flange. All wall flanges shall be cast-in-place with structural concrete or grouted in block-outs with non-shrink grout. All block-outs for through-wall piping shall be keyed, unless otherwise noted.
- Sanitary facility clearances to potable water facilities shall follow the latest rules and regulations of the Texas Commission of Environmental Quality.
- Contractor shall be responsible for obtaining all applicable city, county, state and federal permits.
- The Contractor shall be fully responsible for any and all damage to the existing public or private utility lines, including but not limited to water lines, wastewater collection systems, storm sewers, gas line, telecommunication line, etc. during construction. All damages shall be repaired in accordance with City of Houston, Department of Public Works and Engineering's "Standard Construction Specifications" with latest addenda and amendments thereto, with no cost to the public and/or owner of the utility.
- Contractor shall contact City of Houston, Department of Public Works and Engineering a minimum of 48 hours before starting work.
- Contractor will be responsible for the coordination of power service to the lift station.
- Contractor shall maintain site drainage during the course of construction at all times at no additional costs to the Owner whether by grading or pumping.
- Contractor to obtain all permits required by regulation of Harris County, Texas for Flood Plain Management prior to starting construction.
- All waste materials (hazardous and non-hazardous) shall be removed from the site and properly disposed of by the Contractor.
- Contractor shall be responsible for protecting, maintaining, and restoring all existing facilities or any off-site areas affected by this construction project to existing or better condition, unless otherwise noted, at no additional cost to the Owner.
- The Contractor is responsible for providing red line record drawings and O&M manuals acceptable to the Engineer at the completion of this project, as per the specifications, prior to final payment.
- During construction, the Contractor shall maintain adequate drainage and safe access to adjacent properties, regardless of the weather conditions. Do not obstruct roadways, drainageways, sidewalks, or passageways adjacent to the construction area.
- This project is inside the City of Houston Limits and Harris County, Texas.
- The approximate location of existing utilities are given for reference only. Before commencing the work on this contract, the Contractor shall verify by field investigation the actual locations of all utility facilities within and adjacent to the limits of the work that may be affected by the work. Conflicts which result due to the negligence by the Contractor to locate, horizontally and vertically, existing utilities which are shown on the construction drawings, or which the Contractor has been given notice or has knowledge of, shall be the sole responsibility of the Contractor. The cost of remedial work, removal of portions of the work or extensive design changes occasioned by the failure of the Contractor to verify the location of existing utilities as described above shall be borne by the Contractor.
- Electrical material and equipment listed approval. No electrical materials, apparatus, devices, appliances, fixtures, or equipment shall be sold or installed in the city unless they are in conformance with the provisions of this code, the laws of the State of Texas and any applicable rules and regulations issued under the authority of the stat statutes. The maker's name, trademark, or other identification symbol shall be placed on all electrical materials, apparatus, devices, appliances, fixtures, and equipment used or installed under the provisions of this code.
- All electrical materials and equipment shall be listed and labeled for intended use and shall be included in a list published by an approved agency. Show compliance on Electrical Drawings.
- Section 508 City of Houston Electrical Code.

- Contractor is to contact the Texas811 at 811 or 1-800-344-8377 for location of existing facilities that may not be shown on the plans at least 2 working days prior but not more than 14 working days prior to commencement of any construction activities.
- The Contractor shall provide concrete tankage that is free of substantial leakage and wetting of exterior surfaces.
- The existing public roadway and onsite pavement shall be maintained in accessible and usable condition during the course of the work. Vehicular access to the existing lift stations must be maintained at all times. The Contractor shall repair damage to the road from construction traffic.
- During construction, the Contractor shall maintain pedestrian and vehicular access to all adjacent properties. Access shall be maintained during all weather conditions. Any temporary facilities needed to maintain roadway accessibility during construction operations shall be incidental to the contract.
- All existing structures, sidewalks, stairways, handrail, slabs, piping, and piping supports that must be disturbed shall be replaced and/or rebuilt to pre-construction condition or better.
- The Contractor shall provide isolation kits between mechanical elements constructed and all dissimilar metals.

SANITARY SEWER NOTES:

- All sewers shall be constructed in accordance with the City of Houston "Standard Construction Specifications for Wastewater Collection Systems, water lines, storm drainage, street paving, and traffic"and all current amendments thereto and be subject to a standard Exfiltration test. Tests are to be performed on the total footage of sewer line included in the project. Requirements of Texas Administrative Code, Title 30 Chapter 317, "Design Criteria for Sewerage Systems"shall govern where conflicts exist except where city requirements are more stringent.
- All manholes are to be per City of Houston standard details drawing numbers 02082-01, 02082-02, 02082N-02, 02082-03, and 02082N-03 unless otherwise noted. Use 2010 version as applicable.
- Sanitary sewer manholes will have bedding and backfill per City of Houston standard details drawing No. 02317-08 unless otherwise noted.
- Sanitary sewer pipe 6"and smaller shall be schedule 40 pvc. sanitary sewer pipe 8" and larger shall be SDR-26 PVC.
- All SDR-26 PVC pipe shall meet ASTM specification D3034 and use "Full Bodied" SDR-26 PVC fittings with appropriate adapters and shall have a cell classification of 12364-B as defined in ASTM D-1784 and shall have DIP size OD and rubber gasket bell-and-spigot type joint ends, unless otherwise noted.
- AWWA C-900 DR-18 PVC pipe uses either AWWA C900 DR-18 PVC fittings or DIP fittings.
- All sanitary sewer lines under proposed or future pavement and to a point one (1) foot back of all proposed or future curbs shall have bedding per City of Houston standard details drawing numbers 02317-01, 02317-02, or 02317-03 as applicable, with 1 ½sack cement/cy stabilized sand backfill up to the bottom of the pavement subgrade. 100 psi performance results are still required.
- All sanitary sewers crossing water lines with a clearance between 12 inches and 9 feet shall have a minimum of one 18' joint of 150 psi ductile iron or (green) c900 PVC pipe meeting ASTM specification D2241 centered on water line. When water line is below sanitary sewer provide minimum 2 foot separation.
- Contractor shall provide a minimum horizontal clearance of 9' feet between water lines and sanitary sewer manholes and lines.
- Sanitary sewer manhole rims outside of proposed paving will be set 3"- 6"above the surrounding level finished grade after paving with sloped backfill added for storm water to drain away from manhole rim.
- In wet stable trench areas use bedding per city of houston standard details drawing number 02317-02 (2002).
- Deflection Test: Deflection tests shall be performed on all flexible and semi-rigid sewer pipe. the test shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5% if the deflection test is to be run using a rigid Mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed as per 30 TAC 317.2 latest amendment and without mechanical pulling devices. No ball-type Mandrel is allowed.
- Infiltration, Exfiltration or Low-Pressure Air Test: Either of the following tests shall be performed as per TAC, Title 30 317.2 within the specified tolerances on all gravity sewers.

A. Onfiltration or exfiltration test: total leakage as determined by a hydrostatic head test shall not exceed 50 gallons per inch diameter per mile of pipe per 24 hours at a minimum test head of two (2) feet.

B. Low-pressure air test: perform test according to UNI-B-6-90 or other appropriate procedures. for sections of pipe less than 36"(inch) average inside diameter, the minimum allowable time for pressure drop from 3.5 p.s.i.g. to 2.5 p.s.i.g. shall be as follows:

6"340 seconds or 0.855(L) for test lengths greater than 398'

8"454 seconds or 1.520(L) for test lengths greater than 298'

10"567 seconds or 2.374(L) for test lengths greater than 239'

15"850 seconds or 5.342(L) for test lengths greater than 159'

18"1020 seconds or 7.693(L) for test lengths greater than 133'

Where L = length of line of same pipe size in feet.

- "San. S. E."indicates "Sanitary Sewer Easement"
- For sanitary manhole (MH) rims set inside of or @ curb & gutter pavement and/or below T.C., MH rims will be set flushed with an abutting paved surface. The (Valcun, Neenah or equal) heavy duty bolted solid MH cover shall be properly (and securely) attached and sealed to its compatible gasketed frame by using both a Neoprene Gasket and (at least) 4 counter-sunk hex-head coarse threaded ½"-13 UNC stainless steel bolts. The heavy duty frame MH cover shall be solid (no air holes). Said frame shall be both embedded into the MH's top also securely anchored to the underlying MH structure with either securely attached embedded anchor bolts or the concrete MH's exposed rebars welded to the frame or other equally secured methods to prevent MH cover/frame blow-offs/ejections.
- Maintain 12-inch minimum clearance between all sanitary sewers, storm sewers and culverts unless otherwise noted.
- Sanitary sewer manholes shall be sealed unless otherwise noted. Air-release manholes shall not be sealed.
- Manhole rims are to be set at the elevations shown on the plans initially. After paving and grading is completed, rims are to be adjusted to four (4) to six (6) inches above final grade and back-dressed with dirt to provide drainage away from the manhole. Manholes located within proposed pavement shall have a rim elevation equal to the road elevation.
- If wet sand is encountered in the field, use special bedding per City of Houston DWG 02317-01, 02317-02 and as directed by the Engineer.
- Perform CCTV survey after post installation of all new sanitary sewer lines and submit the videos to the City of Houston according to City of Houston guidelines.
- All sewer lines shall be tested in accordance with the contract specifications. Contractor to furnish test plugs and risers (no separate pay).
- For all PVC or DIP pipe, use manhole waterstop gasket and clamp assembly at manhole connections to new manholes (no separate pay). Connection to existing manholes shall consist of breaking out an opening, installing a flexible connection (grout in place with a water stop around the perimeter) and use of a manhole waterstop gasket and clamp assembly of manhole connections.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026

 **QUIDDITY**

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

GENERAL CONSTRUCTION NOTES
SHEET 1 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: XXX	VERT: XXX
CATEGORY NO. 0-G-3	SHEET NO. 3	OF XXX
FOR CITY OF HOUSTON USE ONLY		

INSPECTION NOTES:

1. A field demonstration of the system and equipment shall be verified by the City of Houston Wastewater group before the start of the seven (7) day pump test. Wastewater will also inspect duct banks before the concrete is poured.
2. The City of Houston Wastewater group shall be given 24 to 72 hours prior notice to needing any inspections.

WATER LINES:

1. Water lines shall be constructed in accordance with the latest City of Houston infrastructure design manual, standard specification, and construction details.
2. All water lines under proposed or future paving and to a point of one (1) foot back of all proposed or future curbs shall be encased in bank sand to 12" over pipe and backfilled with cement stabilized sand to within one (1) foot of subgrade.
3. All water line and sewer line crossings shall be constructed per City of Houston and TECQ regulations.
4. All water valves shall be supplied and INS talled in accordance with the latest edition of AWWA C-500 and shall be of the resilient seat type.
5. All water lines to be disinfected in conformance with AWWA C-651 and the Texas State Department of Health. At least one bacteriological sample shall be collected for every 1,000 linear feet of water line and shall be repeated if contamination persists.
6. All below grade valves shall be gasketed, hub-end gate valves with a cast iron box, except where flanges are called out on the plans.
7. Hydrostatic Testing: All water pipe shall be tested for leakage in accordance with the latest City of Houston standard construction specifications. Tests are to be performed on the entire footage of water pipe line included in the project.
8. All water lines to have 4' minimum cover to finished grade and minimum 12" clearance to other utilities at crossing unless otherwise noted on plans. All water line installed over 8' deep shall utilize restrained joint fittings.
9. Contractor shall keep water pipe clean and capped (or otherwise effectively covered) open pipe ends to exclude insects, animals or other sources of contamination from unfinished pipe lines at times when construction is not in progress.

GRADING NOTES:

1. General Contractor and all Subcontractors shall verify the suitability of all existing and proposed site conditions including grades and dimensions before starting construction. The Engineer shall be notified immediately of any discrepancies.
2. Before starting construction, Contractor shall verify benchmark elevation and notify engineer if any discrepancy and/or conflict is found.
3. Contractor shall ensure there is positive drainage from the proposed buildings and no ponding in paved areas, and shall notify engineer if any grading discrepancies are found in the existing and proposed grades prior to placement of pavement or utilities.
4. Contractor shall protect all manhole covers, valve covers, vault lids, fire hydrants, power poles, guy wires, and telephone boxes that are to remain in place and undisturbed during construction.
5. All existing concrete paving, sidewalk, and curb demolition shall be removed and disposed of by Contractor. Disposal shall be at an approved off-site, lawful location, unless directed otherwise by the Owner.
6. Contractor to provide any additional select fill for final grading of site.
7. Areas that are to receive fill will be stripped to a depth of three-inches (3"). Strippings shall be stock piled and then spread evenly on surface of fill areas.
8. Fill shall be placed in maximum loose lifts of eight-inches (8") or less and compacted to 95% of maximum density at optimum to +3% moisture content as determined by AASHTO Test Method T-99.

SIGNAGE NOTES:

1. Provide identification numbers for each pump within the Lift Station sites which correspond to the identification numbers in the motor control center, PLC, and control panel. These numbers shall be located on the vertical discharge pipes of the pumps or on the concrete top slab. The numbers shall consist of one coat of black polyurethane paint applied with a stencil. Number height shall be at least four-inches (4"). This applies to all proposed equipment and existing equipment at both Lift Station sites.
2. Label and coat with proper color code all lines including an arrow indicating flow direction. Labels shall consist of one coat of black polyurethane paint applied with a stencil. Letter height shall be a minimum of four inches (4"). Apply labels in a prominent location as directed by the Engineer. As a general rule, labels shall be provided for each pipe where it enters or exits a structure or pump. This shall be done for all proposed and existing pipes at both Lift Station sites.

MANHOLE / INLET PROTECTION NOTES:

1. Inlets and manholes that are not complete and/or are subject to conveying storm water flows are to be protected to prevent sediment from entering the proposed or existing storm sewer system.
2. Protection shall consist of one layer of 3x12-inch oak timbers, one (1) inch apart, covered with one layer of woven polypropylene or polyester filter fabric (Exxon GTF 100S, Phillips SUPAC 4WS[UV] or approved equal) held in place with 1/2" staples. Timbers shall be held in place with two (2) 2x4's nailed securely to each timber over the filter fabric. The filter fabric shall extend beyond the perimeter of the oak timbers as to ensure one (1) foot of bury between the manhole or inlet and the surrounding soil as shown.
3. Filter fabric to be cleaned or replaced when it ceases to function properly or as directed by the Engineer.
4. Contractor may submit plans for alternate methods of protection. These alternate methods must be approved prior to use in the field.
5. No separate payment shall be made for inlet and manhole protection. Include the cost in the unit price for the inlets and manholes.

UTILITY CONSTRUCTION NOTES:

1. During construction, the Contractor shall maintain adequate drainage and safe access to adjacent properties, regardless of the weather conditions. Do not obstruct roadways, drainageways, sidewalks, or passageways adjacent to the construction area.
2. When trench condition warrants the use of dewatering systems, their use shall be requested by the Contractor and approved by the Engineer.
3. Contractor shall remove all mud, dirt and debris deposited or dropped on existing pavement due to his construction activity daily. Material that is hazardous to traffic shall be removed immediately.
4. Contractor shall protect all trees adjacent to work area. No trees shall be removed without permission of the City.
5. The Contractor shall be responsible for safeguarding and protecting all material and equipment stored on the job site. The Contractor shall be responsible for the storage of materials in a safe and workmanlike manner to prevent injuries, during and after working hours, until project acceptance.
6. The Contractor shall provide sheeting, shoring and bracing necessary to protect workmen and existing utilities during all phases of construction, as may be required by O.S.H.A., federal, state and local laws, codes and ordinances.
7. The Contractor shall be fully responsible for any and all damage to the existing public or private utility lines, including, but not limited to, water lines, wastewater collection systems, storm sewers, backslope interceptors, irrigation lines, electrical lines, and material and property damages during construction. All damages, relocation, or replacement of existing utilities shall be repaired in accordance with the specifications, details, and requirements of the utility's Owner.
8. Project staking and establishment of control points will be provided by the Owner or their representative. Alignment, centerline curve data, and stationing to be determined from approved, recorded subdivision plat or road right-of-way. The Contractor will be responsible for coordinating this work with the field project representative.
9. The Contractor shall return all existing paving and driveways to original or better condition at no additional cost to the owner unless otherwise noted or specifically called out as a pay item.

DRY WEATHER LIFT STATION
SHUT-DOWNS, PHASING, BYPASS, AND COORDINATION NOTES:

1. Lift Station shut-downs shall be pre-approved by the Engineer and Operator, and shall be scheduled with both at least 72 hours in advance. Bypass pumping and piping shall be provided by the Contractor, and shall be considered incidental to the work. Submit bypass pumping plan to Engineer for approval a minimum of thirty (30) calendar days prior to installation.
2. The Contractor shall notify the Engineer of, and be present for, the start-up of all new equipment, and shall be responsible for proper start-up procedures as recommended by the Manufacturer, and called for in the specifications. A Manufacturer Representative shall be present for start-up or pre-start-up inspection as required by the specifications, and as recommended by the Manufacturer for each equipment item. No equipment will qualify for substantial completion until Contractor meets all conditions listed in the Special Conditions, including submitting start-up reports to the Engineer. Within 24 hours of completion of grit removal from the lift station, Contractor shall contact the Engineer to inspect the Lift Station.
3. Upon initial shut down of the Lift Station, the Operator shall be responsible for removal of bulk liquid, grit, rags, solid and semi-solid material to within six-feet (6') of the wet well floor. All subsequent dewatering operations (including removal of last two-feet (2') of material, and removal of rainwater) shall be the responsibility of the Contractor at no additional cost to the Owner.
4. The Contractor shall perform all start-up and shut-down operations of all proposed lift station equipment. The Operator shall perform all start-up and shut down operations of all existing Lift Station equipment.
5. The Contractor shall provide and install all the plugs, blocks, restraints, pumps, controls, monitoring, piping and labor required for controlling and diverting all the wastewater that flows into the Lift Station as necessary for the work and preventing interruption of service, surcharging the system and/or overflowing the system. The existing force main may be utilized for bypass pumping purposes. A minimum of one (1) duty pump and one (1) spare pump shall be used. All equipment for bypass pumping shall be located as shown on the plans.
6. The Contractor shall coordinate the duration of the bypass pumping system with all Subcontractors to ensure the appropriate length of bypass pumping is supplied. The Owner will not be responsible for any extended bypass pumping required due to lack of Contractor / Subcontractor coordination for all electrical, civil, and mechanical improvements.
7. Lift station shall not be out of service unless bypass pumping is provided and installed as specified.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

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SCOTT STREET No. 1
LIFT STATION REHABILITATION

GENERAL CONSTRUCTION NOTES
SHEET 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: XXX	VERT: XXX
CATEGORY NO. 0-G-4	SHEET NO. 4	OF XXX
FOR CITY OF HOUSTON USE ONLY		

EQUIPMENT ABBREVIATIONS:

BWF	AUTOMATIC BACKWASH SAND FILTER
AF	AIR INLET FILTER
AL	AIR LIFT
ASV	AUTOMATIC SWITCHOVER VALVE
BC	BELT CONVEYOR
BP	BELT PRESS
CC	CALIBRATION COLUMN
CFP	CENTRIFUGAL PUMP
CLR	CHLORINATOR
CP	CHOPPER PUMP
CRB	CARBON SCRUBBER
DA	DECANT ARM
DDP	DOUBLE DISC PUMP
DF	DISK FILTER
DP	DIAPHRAGM PUMP
DWT	DOUBLE WALL STORAGE TANK
EFAN	EXHAUST FAN
EWS	EMERGENCY EYEWASH & SHOWER
FBD	FINE BUBBLE DIFFUSER
FLT	FLOATS
GEN	GENERATOR
GIP	GAS INDUCTION PUMP
GLS	GAS LEAK SENSOR
GR	GRINDER
HEP	HORIZONTAL END-SUCTION PUMP
HST	HOIST
INJ	INJECTOR
JIB	JIBB CRANE
LC	LOAD CELL
LCP	LOCAL CONTROL PANEL
LVR	LOUVER
MCS	MECHANICAL COARSE SCREEN
MFS	MECHANICAL FINE SCREEN
MR	MONORAIL
MS	MANUAL SCREEN
MSB	MULTI-STAGE CENTRIFUGAL BLOWER
MXR	MIXER
PBU	POLYMER BLENDING UNIT
PCP	PROGRESSIVE CAVITY PUMP
PD	PULSATION DAMPENER
PSP	PERISTALTIC PUMP
RECTW	RECTANGULAR WEIR
RDT	ROTARY DRUM THICKENER
RLB	ROTARY LOBE BLOWER
RLP	ROTARY LOBE PUMP
RSB	ROTARY SCREW BLOWER
RTB	REGENERATIVE TURBINE BLOWER
RTM	ROTAMETER
RTV	ROTAMETER WITH INTEGRAL MANUAL VALVE
SC	SECONDARY CLARIFIER
SCC	SCREW CONVEYOR
SCP	SUBMERSIBLE CHOPPER PUMP
SDD	COARSE BUBBLE SINGLE DROP DIFFUSER
SFAN	SUPPLY FAN
SFR	SULFONATOR
SHTR	SPACE HEATER
SM	SUBMERSIBLE MIXER
SNP	SOLENOID PUMP
SP	NON-CLOG SUBMERSIBLE PUMP
SPP	SELF-PRIMING CENTRIFUGAL PUMP
STMX	STATIC MIXER
SWT	SINGLE WALL STORAGE TANK
TB	TRAVELING BRIDGE
TBB	TURBO BLOWER
TEFC	TOTALLY ENCLOSED, FAN-COOLED MOTOR
TLY	TROLLEY
VLF	VACUUM LIQUID FEEDER
VNW	V-NOTCH WEIR
VR	VACUUM REGULATOR
WBD	COARSE BUBBLE WIDE BAND DIFFUSER
WC	WASHER COMPACTOR
WCH	WINCH

FLUID ABBREVIATIONS:

AIR	AIR
ALUM	ALUM
BW	BACKWASH WASTE
CAKE	DEWATERED SLUDGE
CE	CLARIFIED EFFLUENT
CLG	CHLORINE GAS
CLS	CHLORINE SOLUTION
DR	DRAIN LINE
DS	DIGESTED SLUDGE
FA	FOUL AIR
FE	FINAL EFFLUENT
FRA	FRESH AIR
FTE	FILTERED EFFLUENT
FTR	FILTRATE
IR	INTERNAL RECYCLE
ML	MIXED LIQUOR
NPW	NON-POTABLE WATER
OF	OVERFLOW
POLY	POLYMER
PRM	PERMEATE
PS	POLYMER SOLUTION
PW	POTABLE WATER
RAS	RETURN ACTIVATED SLUDGE
RCW	RECLAIMED WATER
RS	RAW SEWAGE
SB	SODIUM BISULFITE
SCUM	SCUM
SDS	SULFUR DIOXIDE SOLUTION
SH	SODIUM HYPOCHLORITE (BLEACH)
SI	SCREENED INFLUENT
SN	SUPERNATE
SDG	SULFUR DIOXIDE GAS
STM	STORM SEWER
TS	THICKENED SLUDGE
WAS	WASTE ACTIVATED SLUDGE

GENERAL ABBREVIATIONS:

AC	ACRES
CL	CENTERLINE
CFM	CUBIC FEET PER MINUTE
EL	ELEVATION
FF	FINISHED FLOOR
FM	FORCE MAIN
FPS	FEET PER SECOND
FT	FEET
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HOA	HAND OFF AUTO
HP	HORSE POWER
HR	HOUR
LF	LINEAR FEET
mA	MILLIAMPERE
MH	MANHOLE
OFB	OVERFLOW BAFFLE
PP	POWER POLE
ROW	RIGHT-OF-WAY
SMC	SAMPLE COCK
SAN	SANITARY SEWER
SCH	SCHEDULE
SF	SQUARE FEET
TDH	TOTAL DYNAMIC HEAD
TOB	TOP OF BANK
TOC	TOP OF CONCRETE
TOE	TOP OF SLOPE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TELEPHONE PEDESTAL
TSP	TELEPHONE SERVICE POINT
TSS	TOTAL SUSPENDED SOLID
UFB	UNDERFLOW BAFFLE
UGE	UNDERGROUND ELECTRIC
V	VOLTS
VOL	VOLUME
WM	WATER METER

GATES, VALVES & FITTINGS

ABBREVIATIONS:

WN	THREE WAY VALVE
ARV	AIR RELEASE VALVE
AVV	AIR & VACUUM VALVE
BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BPV	BACKPRESSURE VALVE
BS	BASKET STRAINER
BV	BALL VALVE
CCV	CUSHION CHECK VALVE
DAE	DOUBLE ARCH EXPANSION JOINT
DBS	DUPLEX BASKET STRAINER
DBV	DUCKBILL VALVE
DCV	DOUBLE DISC CHECK VALVE
DDC	DOUBLE DETECTOR CHECK
DGV	DEGASSING VALVE
DJ	DISMANTLING JOINT
DV	DIAPHRAGM VALVE
EC	EXPANSION COUPLING
FAC	FLANGED ADAPTER COUPLING
FPG	FLAP GATE
FPV	FLAP VALVE
FTV	FOOT VALVE
GLB	GLOBE VALVE
GV	GATE VALVE
HB	HOSE BIBB
KGV	KNIFE GATE VALVE
MC	MECHANICAL COUPLING
MQC	MALE CAM & GROOVE QUICK COUPLING
MV	MUD VALVE
NRS	NON-RISING STEM
NV	NEEDLE VALVE
OCV	ODOR CONTROL VALVE
OSY	OUTSIDE STEM & YOKE
PG	PULL GATE
PNV	PINCH VALVE
PR	PRESSURE REDUCING VALVE
PRV	PRESSURE RELIEF VALVE
PSV	PRESSURE SUSTAINING VALVE
PV	PLUG VALVE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SCK	SILENT CHECK VALVE
SCV	SWING CHECK VALVE
SG	SLIDE GATE
SLC	SLEEVE COUPLING
SRV	SURGE RELIEF VALVE
SV	SOLENOID VALVE
TBA	TUBING ADAPTER
TV	TELESCOPIC VALVE
UN	UNION
VB	VACUUM BREAKER
WG	WEIR GATE
WYS	WYE STRAINER

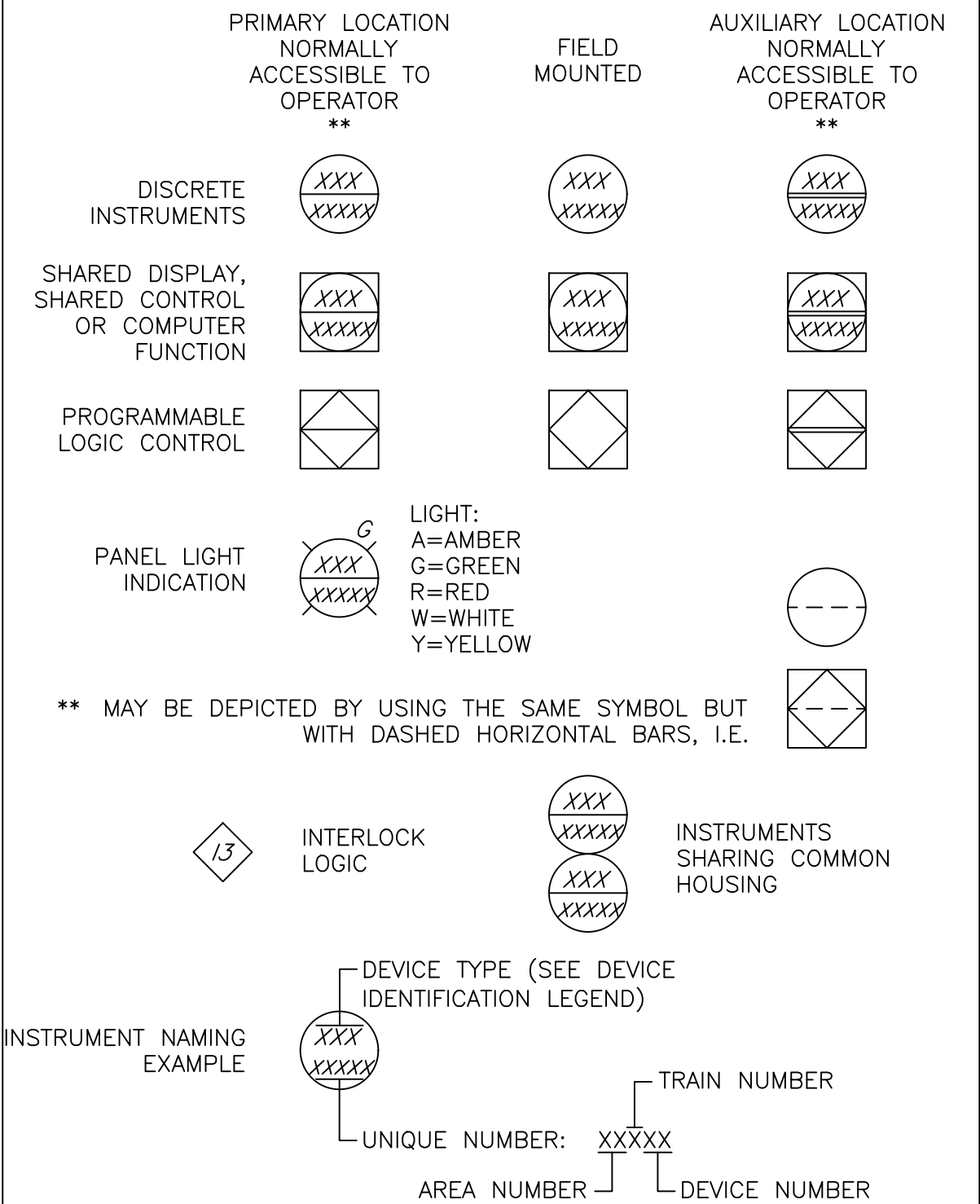
MATERIAL ABBREVIATIONS:

AL	ALUMINUM
CFRP	CENTRIFUGALLY CAST FIBER REINFORCED PIPE
CMP	CORRUGATED METAL PIPE
DI	DUCTILE IRON
FRP	FIBERGLASS REINFORCED PLASTIC
GS	GALVANIZED STEEL
HDG	HOT DIP GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SS	STAINLESS STEEL
ST	STEEL
WS	WELDED STEEL

INSTRUMENTATION ABBREVIATIONS:

A/H	AUTO/HAND
DC	FULL VOLTAGE DISCONNECT
DOP	DOPPLER FLOW METER
ES	EMERGENCY STOP
H/O/A	HAND/OFF/AUTO
H/O/R	HAND/OFF/REMOTE
L/A	LOCAL/AUTO
L/C	LOCAL/COMPUTER
L/O/C	LOCAL/OFF/COMPUTER
L/O/R	LOCAL/OFF/REMOTE
L/R	LOCAL/REMOTE
LS	LOCK STOP
LSR	LASER LEVEL TRANSDUCER
MAG	ELECTROMAGNETIC FLOWMETER
N/B	NORMAL/BYPASS
O/O	ON/OFF
O/C	OPEN/CLOSE
O/C/LOS	OPEN/CLOSE/LOCK-OUT-STOP
O/C/S	OPEN/CLOSE/STOP
O/C/S/C	OPEN/CLOSE/STOP/COMPUTER
O/H/C	OPEN/HOLD/CLOSE
O/O/A	ON/OFF/AUTO
O/O/C	ON/OFF/COMPUTER
PRP	PROPELLER OR TURBINE FLOWMETER
RAD	RADAR LEVEL TRANSDUCER
R/S/L	RAISE/STOP/LOWER
S/S	STOP/START
SUB	SUBMERSIBLE LEVEL TRANSDUCER
TRM	THERMAL MASS FLOWMETER
TRT	TRANSIT TIME FLOWMETER
ULT	ULTRASONIC LEVEL TRANSDUCER

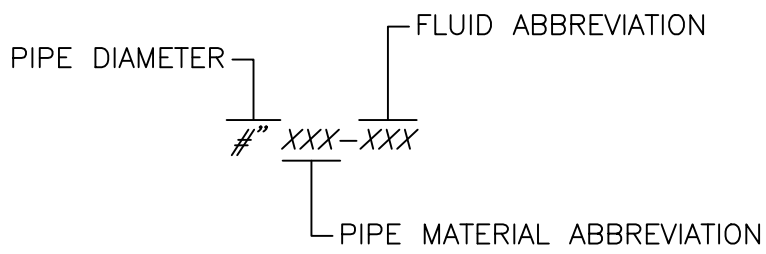
GENERAL INSTRUMENT & FUNCTION SYMBOLS:



ANALYZER ABBREVIATIONS:

DO	DISSOLVED OXYGEN
NO3	NITRATE
OP	ORTHOPHOSPHATE
ORP	OXIDATION REDUCTION POTENTIAL
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

PIPING LABELS:



PROCESS AREAS:

0	GENERAL
1	DRY WEATHER LIFT STATION
2	WET WEATHER LIFT STATION
3	FES CHEMICAL FEED FACILITY
4	FLOW CONTROL STATION
5	ODOR CONTROL STATION
6	ELECTRICAL BUILDING NO. 1

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

RY 2026	DGN BY: MB
0099-01	DWG BY: JMI

DATE: <u>JANUARY 2026</u>	DGN BY: <u>MBMITCHELL</u>
JOB NO: <u>00050-0099-01</u>	DWG BY: <u>JMMUSSO</u>

NOTE: CITY SIGNATURES VALID FOR ONE
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

GENERAL SYMBOLS &
ABBREVIATIONS
SHEET 1 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A HORIZ: XXX VERT: XXX

CATEGORY NO. 0-G-5 SHEET NO. 5 OF XXX

FOR CITY OF HOUSTON USE ONLY

MISCELLANEOUS SYMBOLS:

	TYPICAL NORMALLY CLOSED VALVE		AUTOMATIC SWITCHOVER VALVE		TUBING ADAPTER		EXHAUST FAN		GRINDER
	PLUG VALVE		VACUUM REGULATOR		BLIND FLANGE		LOUVER		GENERAL BLOWER
	BALL VALVE		DRAIN LINE		UNION		GENERAL FAN		GENERAL PUMP
	BUTTERFLY VALVE		DRAIN INLET (SCREENED)		SLEEVE COUPLING		GENERAL CRANE		HEAT TRACING
	SILENT CHECK VALVE		DRAIN INLET (OPEN)		FLANGED ADAPTER COUPLING		WINCH		CALIBRATION TUBE/COLUMN
	SWING CHECK VALVE		VENT		DISMANTLING JOINT		TRAVELING BRIDGE CRANE		LOAD CELL/SCALE
	CUSHION CHECK VALVE		AIR INLET FILTER		DOUBLE ARCH EXPANSION JOINT		TROLLEY		SPACE HEATER
	BALL CHECK VALVE		SLIDE GATE (NORMALLY OPEN)		AIR LIFT		HOIST		MOTOR
	MUD VALVE		SLIDE GATE (NORMALLY CLOSED)		MALE CAM & GROOVE QUICK COUPLING		GENERAL SCREEN		VARIABLE SPEED MOTOR
	DUCKBILL VALVE		PULL GATE (NORMALLY OPEN)		DIAPHRAGM SEAL		WASHER COMPACTOR		MOTOR WITH LOCAL LOCKOUT (SEE INSTRUMENTATION ABBREVIATIONS FOR TYPE)
	DIAPHRAGM VALVE		PULL GATE (NORMALLY CLOSED)		INLINE ANNULAR DIAPHRAGM		SCREW CONVEYOR		ELECTRICAL SIGNAL
	GATE VALVE		WEIR GATE		SAMPLE COCK		BELT CONVEYOR		3-PHASE POWER
	DOUBLE DISC CHECK VALVE		OVERFLOW BAFFLE		HOSE BIBB		COARSE BUBBLE SINGLE DROP DIFFUSER (PROFILE)		DATA COMMUNICATION
	GLOBE VALVE		UNDERFLOW BAFFLE		VACUUM BREAKER		SINGLE DROP COARSE AIR DIFFUSER (PLAN)		HEAT TRACING
	ODOR CONTROL VALVE		V-NOTCH WEIR		WYE STRAINER		FINE BUBBLE DIFFUSERS		ANALOG INPUT
	PINCH VALVE		RECTANGULAR WEIR		CORPORATION STOP		COARSE BUBBLE WIDE BAND AIR DIFFUSERS (PLAN)		ANALOG OUTPUT
	NEEDLE VALVE				GENERAL BACKFLOW PREVENTER		COARSE BUBBLE AIR		DISCRETE INPUT
	THREE-WAY VALVE				BASKET STRAINER		FINE BUBBLE AIR		DISCRETE OUTPUT
	FLAP VALVE				DUPLEX BASKET STRAINER		MANHOLE		
	TELESCOPIC VALVE				EMERGENCY EYE WASH & SHOWER				
	FOOT VALVE				BLADDER TANK				
	AIR & VACUUM VALVE				MIXER				
	AIR RELEASE VALVE				STATIC MIXER				
	DEGASSING VALVE				SINGLE WALL STORAGE TANK				
	SOLENOID VALVE				DOUBLE WALL STORAGE TANK				
	PRESSURE RELIEF VALVE				STORAGE CONTAINER				
	SURGE RELIEF VALVE								
	PRESSURE REDUCING VALVE								
	PRESSURE SUSTAINING VALVE								
	BACKPRESSURE VALVE								

ELECTRICAL / INSTRUMENTATION SYMBOLS:

	120 VAC ELECTRICAL SUPPLY
	LEVEL TRANSDUCER (SEE INSTRUMENTATION ABBREVIATIONS FOR TYPE)
	FLOAT WITH PVC COATED WEIGHT
	FLOW METER (SEE INSTRUMENTATION ABBREVIATIONS FOR TYPE)
	ONLINE ANALYZER (SEE ANALYZER ABBREVIATIONS FOR TYPE)
	PROBE ANALYZER (SEE ANALYZER ABBREVIATIONS FOR TYPE)
	LOAD CELL/SCALE
	SPACE HEATER
	MOTOR
	VARIABLE SPEED MOTOR
	MOTOR WITH LOCAL LOCKOUT (SEE INSTRUMENTATION ABBREVIATIONS FOR TYPE)
	ELECTRICAL SIGNAL
	3-PHASE POWER
	DATA COMMUNICATION
	HEAT TRACING
	ANALOG INPUT
	ANALOG OUTPUT
	DISCRETE INPUT
	DISCRETE OUTPUT

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

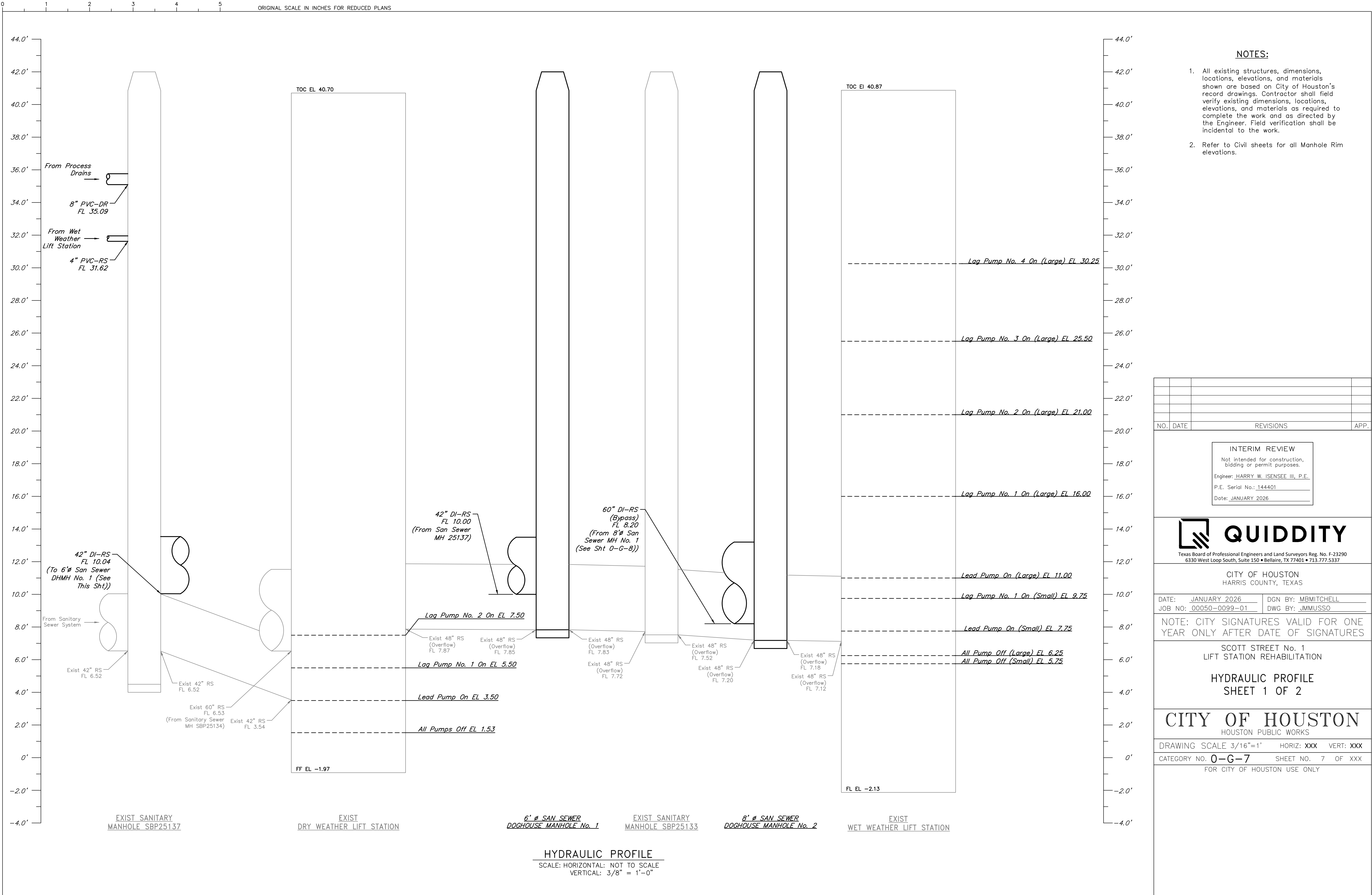
DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

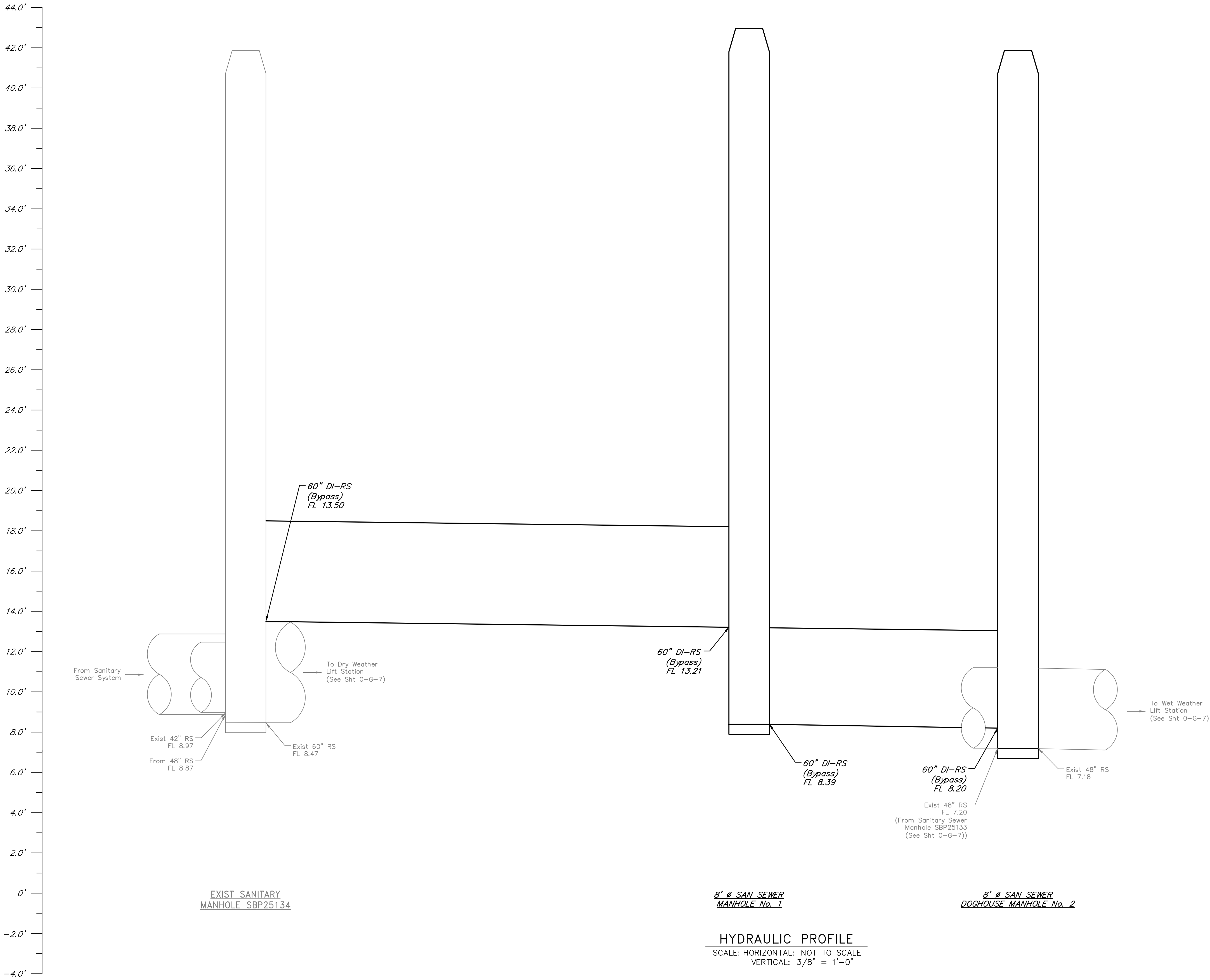
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
GENERAL SYMBOLS &
ABBREVIATIONS
SHEET 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: XXX	VERT: XXX
CATEGORY NO. 0-G-6	SHEET NO. 6	OF XXX
FOR CITY OF HOUSTON USE ONLY		





NOTES:

- All existing structures, dimensions, locations, elevations, and materials shown are based on City of Houston's record drawings. Contractor shall field verify existing dimensions, locations, elevations, and materials as required to complete the work and as directed by the Engineer. Field verification shall be incidental to the work.
- Refer to Civil sheets for all Manhole Rim elevations.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

HYDRAULIC PROFILE
SHEET 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX

CATEGORY NO. 0-G-8 SHEET NO. 8 OF XXX
FOR CITY OF HOUSTON USE ONLY

STORM STRUCTURES:

(A) STM. M.H.
TG=37.65'
FL=24.65' (36" N)
FL=25.95' (24" E)
FL=24.55' (36" S)

(B) STM. M.H.
TG=39.23'
FL=31.73' (15" NE)
FL=34.53' (12" S)

(C) STM. M.H.
TG=37.96'
FL=31.73' (24" W)
FILLED W/ TRASH

SANITARY STRUCTURES:

(D) BB. INLET
TG=37.88'
FL=31.43' (24" N)
FL=31.43' (24" E)

(E) STM. M.H.
TG=38.50'
FL=25.00' (36" N)
FL=28.80' (24" E)
FL=25.00' (36" S)
FL=29.40' (24" W)

(F) BB. INLET
TG=38.05'
FL=31.35' (24" E)
FL=31.65' (24" S)

SANITARY STRUCTURES:

(1) SAN. M.H.
TR=37.85'
FL=28.80' (8" N)
FL=28.90' (8" E)

(2) SAN. M.H.
TR=39.22'
FL=28.14' (42" SE)
FL=28.04' (42" NW)

(3) SAN. M.H.
TR=39.47'
FL=30.60' (42" N)
FL=30.50' (42" SE)
FL=31.00' (PIPE SET BACK W)

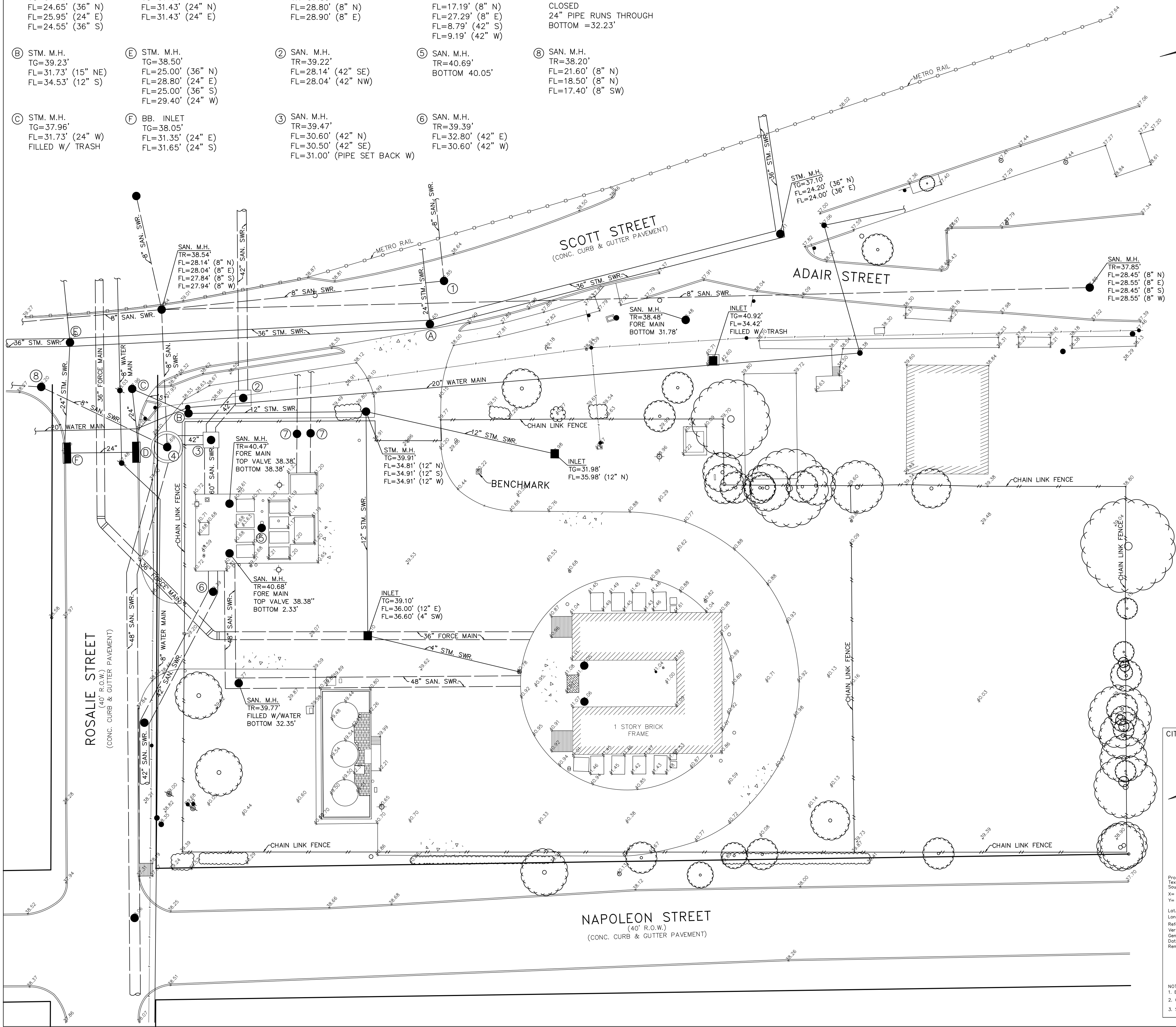
(4) SAN. M.H.
TR=38.69'
FL=17.19' (8" N)
FL=27.29' (8" E)
FL=8.79' (42" S)
FL=9.19' (42" W)

(5) SAN. M.H.
TR=40.69'
BOTTOM 40.05'

(6) SAN. M.H.
TR=39.39'
FL=32.80' (42" E)
FL=30.60' (42" W)

(7) SAN. M.H.
TR=39.78'
CLOSED
24" PIPE RUNS THROUGH
BOTTOM =32.23'

(8) SAN. M.H.
TR=38.20'
FL=21.60' (8" N)
FL=18.50' (8" N)
FL=17.40' (8" SW)



CITY OF HOUSTON

Project WBS# R-000287-0127-3
Texas Coordinate System of 1983,
South Central Zone, U. S. Survey Feet
X= 13,726,662.11
Y= 13,830,710.75
Lat= 29°43'44.6873"N
Long= 095°21'00.7540"W
Reference Frame Used: EPOCH 2010
Vertical Adjustment Used: NAD 83 (CORS '96)
General Location: LOCATED INSIDE SCOTT No.1 LIFT STATION SITE
Date Set: N/A
Remarks: Established on March 12, 2025

Keymap Page: 4937
Orthometric Elevation = 40.21'
Geoid: GEOID '18
Datum Source & Adjustment: NAD '83 (2011)

Western Group Consultants
11111 Katy Freeway
Suite 520
Houston, TX 77079
(713) 465-6655

BENCH MARK
SET BRASS DISC IN CONCRETE FOR CITY OF HOUSTON MARKER
NO. 1
LOCATED INSIDE CITY OF HOUSTON LIFT STATION NO.1
AT THE INTERSECTION OF SCOTT STREET AND ROSALIE STREET.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL
811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT
UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES
NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES		
Date:		
CenterPoint Energy natural gas utilities shown. (Gas services lines are not shown). This signature not to be used for conflict verification. Signature Valid for six months.		
Date:		
CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (Gas services lines are not shown). This signature not to be used for conflict verification. Signature Valid for six months.		
Date:		
Approved for AT&T Texas / SWBT underground conduit facilities only. Signature valid for one year.		
NO.	DATE	REVISIONS
		APP.

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: MARCH 2025 DGN BY:
JOB NO: 00050-0099-01 DWG BY:

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION
REHABILITATION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-1 SHEET NO. OF XXX

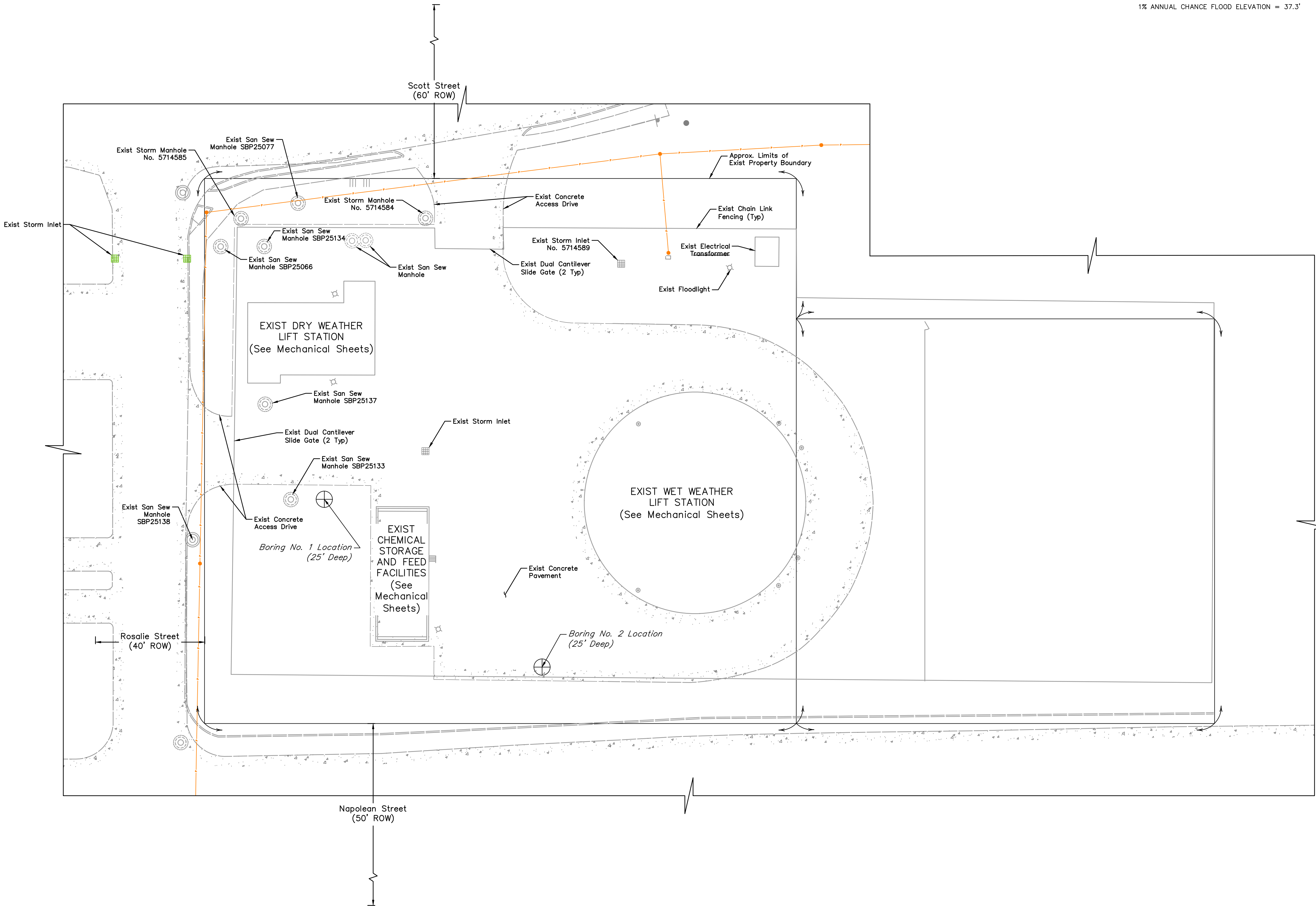
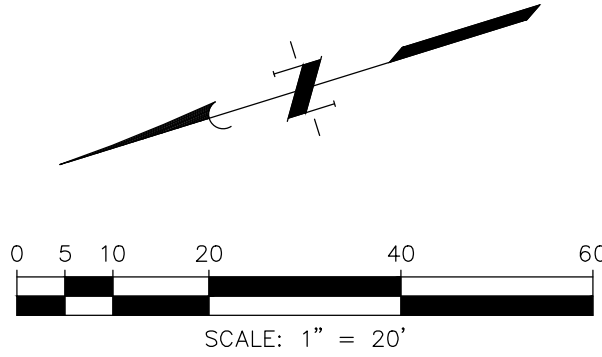
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

FLOODPLAIN INFORMATION:
THIS TRACT LIES WITHIN UNSHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY OF CITY OF HOUSTON, MAP No. 48201C0880M, PANEL 0880 OF 1150, SUFFIX "M" DATED JANUARY 6, 2017, FOR HARRIS COUNTY TEXAS AND INCORPORATED AREAS. UNSHADED ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

0.2% ANNUAL CHANCE FLOOD ELEVATION = 39.7'

1% ANNUAL CHANCE FLOOD ELEVATION = 37.3'



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: CHUDSON

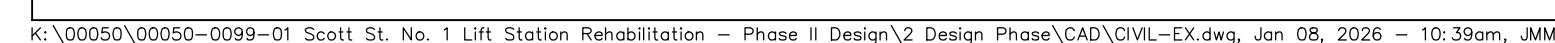
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

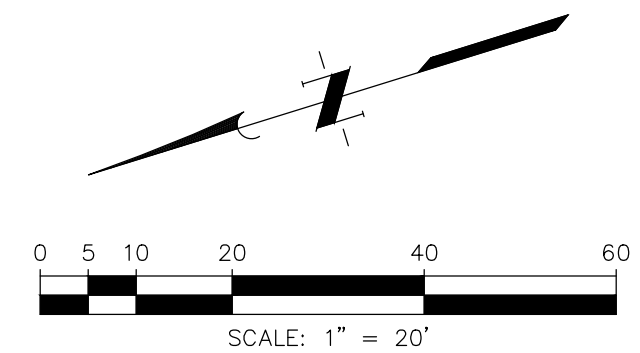
SCOTT STREET No. 1
LIFT STATION REHABILITATION

EXISTING SITE PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-2 SHEET NO. 8 OF XXX
FOR CITY OF HOUSTON USE ONLY

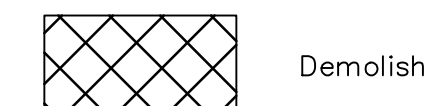




THIS TRACT LIES WITHIN UNSHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY OF CITY OF HOUSTON, MAP No. 48201C0880M, PANEL 0880 OF 1150, SUFFIX "M" DATED JANUARY 6, 2017, FOR HARRIS COUNTY TEXAS AND INCORPORATED AREAS. UNSHADED ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

1% ANNUAL CHANCE FLOOD ELEVATION = 37.3'

EJ Expansion Joint



1. Contractor shall walk the site with a City representative prior to demolition to determine any items to be salvaged and returned by the City. Contractor shall not begin demolition on site without giving the City first right of refusal.
2. The sound was produced by the erection, excavation, construction, or demolition of any building or structure, including the use of any necessary tools or equipment, conducted between the hours of 7 a.m. and 8 p.m., which activity did not produce a sound exceeding 85 dB (A) when measured from the property line of the residential property where the sound being received.

NO.	DATE	REVISIONS	APP.

Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: <u>JANUARY 2026</u>	DGN BY: <u>MBMITCHELL</u>
JOB NO: <u>00050-0099-01</u>	DWG BY: <u>CHUDSON</u>

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

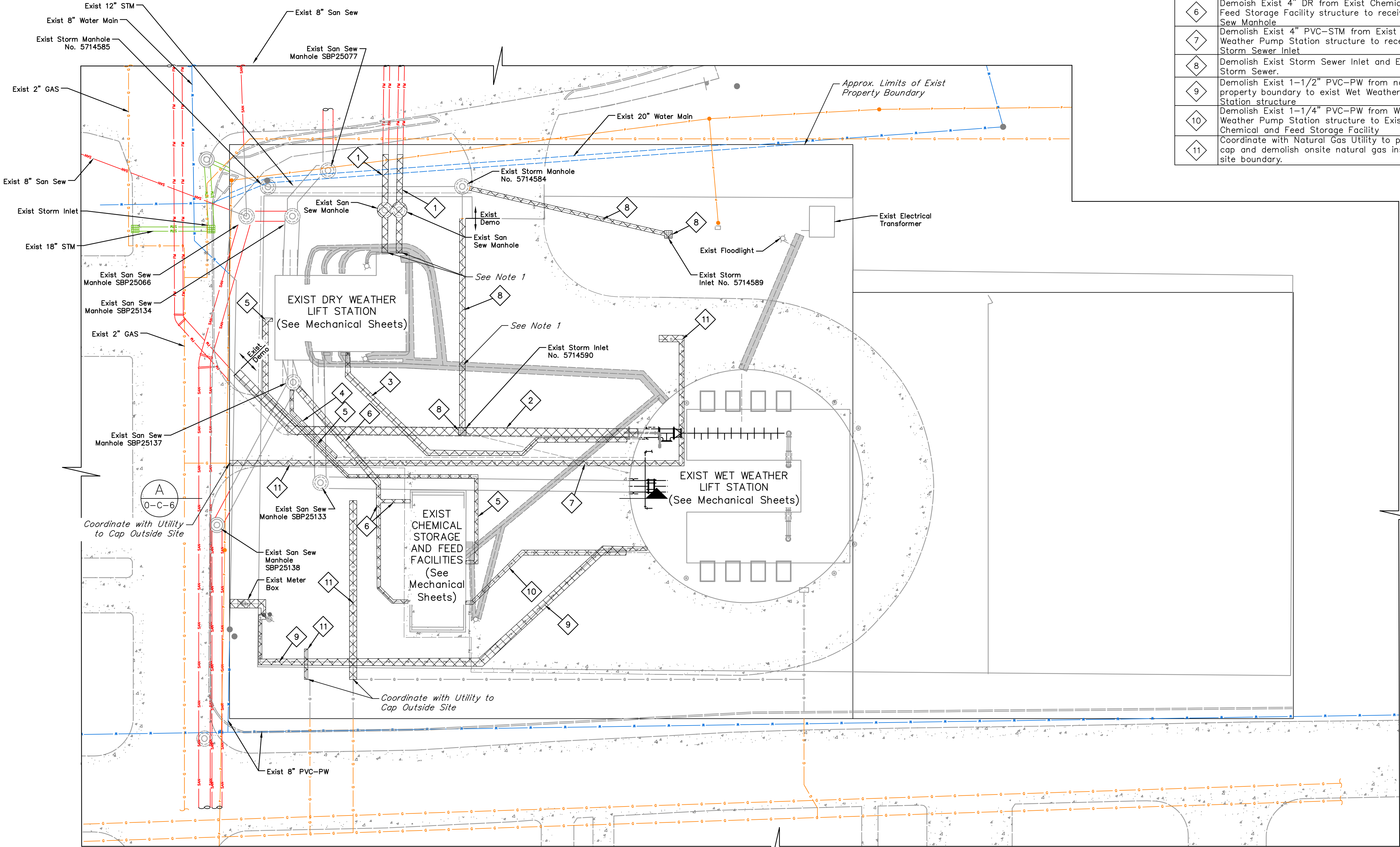
SITE DEMOLITION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX

CATEGORY NO. 0-C-4 SHEET NO. 4 OF XXX

FOR CITY OF HOUSTON USE ONLY



BENCHMARK:

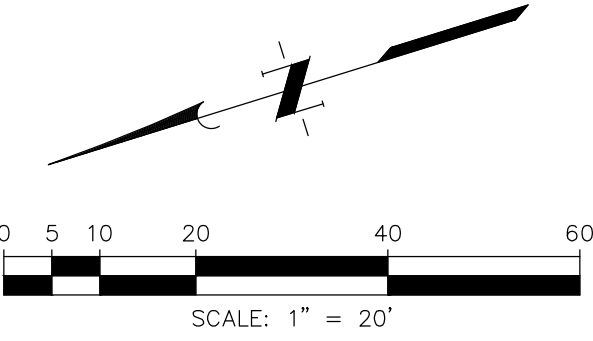
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TEMPORARY BENCHMARK:

xxx

ITEMS OF WORK

No.	DESCRIPTION
1	Demolish Exist 24" DI-RS (Force Main) and San Sew MH from Dry Weather Pump Station up to 4' from east property boundary
2	Demolish Exist 36" DI-RS (Force Main)
3	Demolish Exist 6" DI-DR (Force Main) from Wet Weather Pump Station structure to Dry Weather Pump Station
4	Demolish Exist 4" San Sew from Wet Weather Pump Station structure to receiving San Sew Manhole
5	Demolish Exist 1/2" PE-FES in 3" PVC-CCP from Exist Chemical and Feed Storage Facility structure to Exist Dry Weather Pump Station structure
6	Demolish Exist 4" DR from Exist Chemical and Feed Storage Facility structure to receiving San Sew Manhole
7	Demolish Exist 4" PVC-STM from Exist Wet Weather Pump Station structure to receiving Storm Sewer Inlet
8	Demolish Exist Storm Sewer Inlet and Exist 12" Storm Sewer
9	Demolish Exist 1-1/2" PVC-PW from north property boundary to exist Wet Weather Pump Station structure
10	Demolish Exist 1-1/4" PVC-PW from Wet Weather Pump Station structure to Exist Chemical and Feed Storage Facility
11	Coordinate with Natural Gas Utility to plug and cap and demolish onsite natural gas inside the site boundary.



NOTES:

- Locations of underground facilities are per record drawings. Contractor shall field verify line sizes, use, and location of underground facilities prior to removal. Engineer to approve of all deviations.
- Existing underground Centerpoint facilities are per map request data. Contractor shall field verify the line sizes, use, and location prior to removal. Contractor shall coordinate with Centerpoint prior to removal of Centerpoint underground facilities.
- Contractor shall walk the site with a City representative prior to demolition to determine any items to be salvaged and returned by the City. Contractor shall not begin demolition on site without giving the City first right of refusal.
- The sound was produced by the erection, excavation, construction, or demolition of any building or structure, including the use of any necessary tools or equipment, conducted between the hours of 7 a.m. and 8 p.m., which activity did not produce a sound exceeding 85 dB (A) when measured from the property line of the residential property where the sound being received.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: CHUDSON

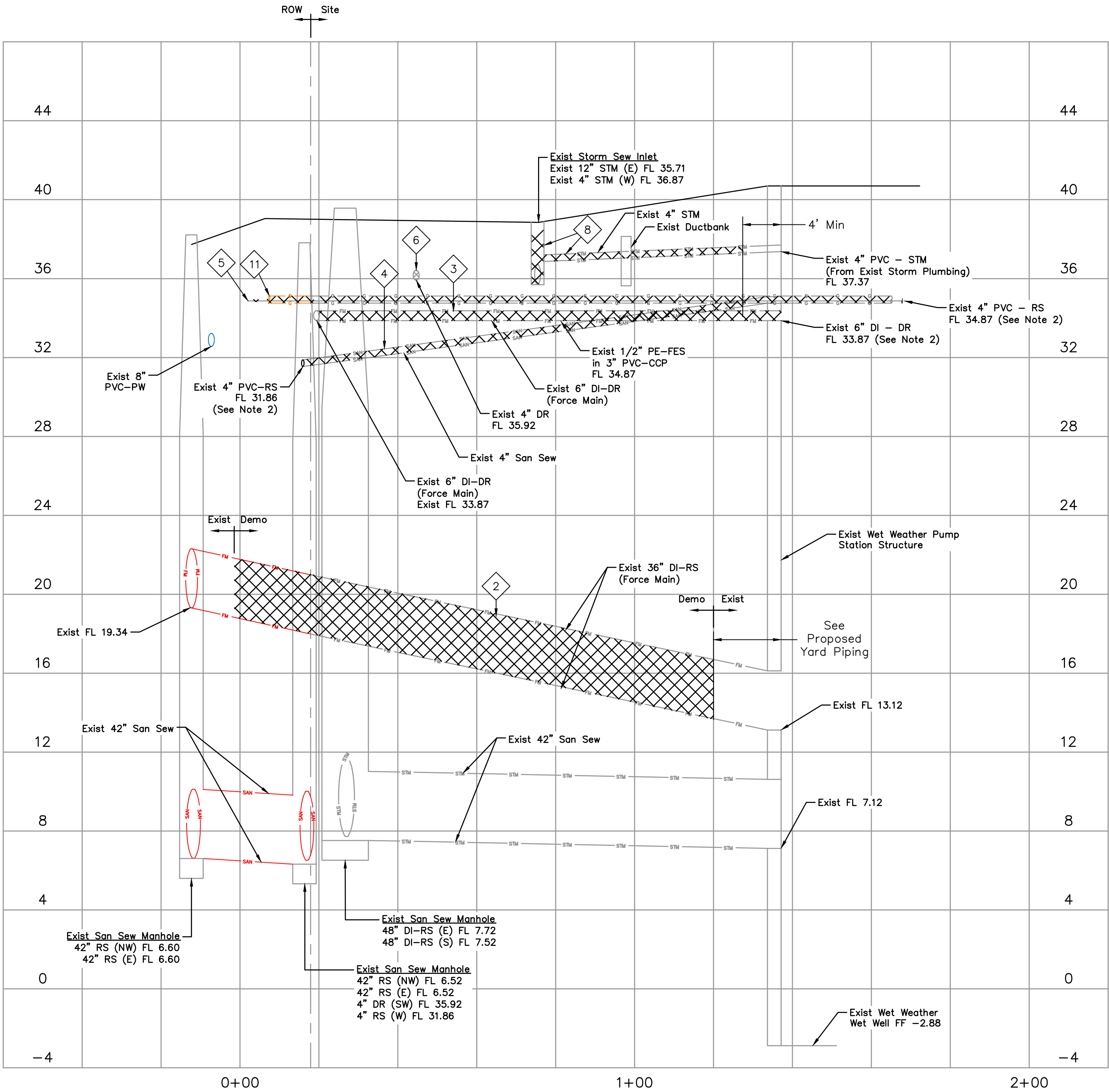
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

YARD PIPING DEMOLITION
PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: xxx VERT: xxx
CATEGORY NO. 0-C-5 SHEET NO. 11 OF xxx
FOR CITY OF HOUSTON USE ONLY



SECTION
A
0-C-5
SCALE: Horizontal 1" = 20'
SCALE: Vertical 1" = 4'

ITEMS OF WORK

No.	DESCRIPTION
1	Demolish Exist 24" DI-RS (Force Main) and San Sew MH from Dry Weather Pump Station up to 4' from east property boundary
2	Demolish Exist 36" DI-RS (Force Main)
3	Demolish Exist 6" DI-DR (Force Main) from Wet Weather Pump Station structure to Dry Weather Pump Station
4	Demolish Exist 4" San Sew from Wet Weather Pump Station structure to receiving San Sew Manhole
5	Demolish Exist 1/2" PE-FES in 3" PVC-CCP from Exist Chemical and Feed Storage Facility structure to Exist Dry Weather Pump Station structure
6	Demolish Exist 4" DR from Exist Chemical and Feed Storage Facility structure to receiving San Sew Manhole
7	Demolish Exist 4" PVC-STM from Exist Wet Weather Pump Station structure to receiving Storm Sewer Inlet
8	Demolish Exist Storm Sewer Inlet, Exist 12" Storm Sewer, and Exist Storm Sewer Manhole
9	Demolish Exist 1-1/2" PVC-PW from north property boundary to exist Wet Weather Pump Station structure
10	Demolish Exist 1-1/4" PVC-PW from Wet Weather Pump Station structure to Exist Chemical and Feed Storage Facility
11	Coordinate with Natural Gas Utility to plug and cap and demolish onsite natural gas inside the site boundary.

BENCHMARK:

xxx

TEMPORARY BENCHMARK:

xxx

NOTES:

- Locations of underground facilities are per record drawings. Contractor shall field verify line sizes, use, and location of underground facilities prior to removal. Engineers to approve of all deviations.
- Existing underground Centerpoint facilities are per map request data. Contractor shall field verify the line sizes, use, and location prior to removal. Contractor shall coordinate with Centerpoint prior to removal of Centerpoint underground facilities.
- Contractor shall walk the site with a City representative prior to demolition to determine any items to be salvaged and returned by the City. Contractor shall not begin demolition on site without giving the City first right of refusal.
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NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: CHUDSON

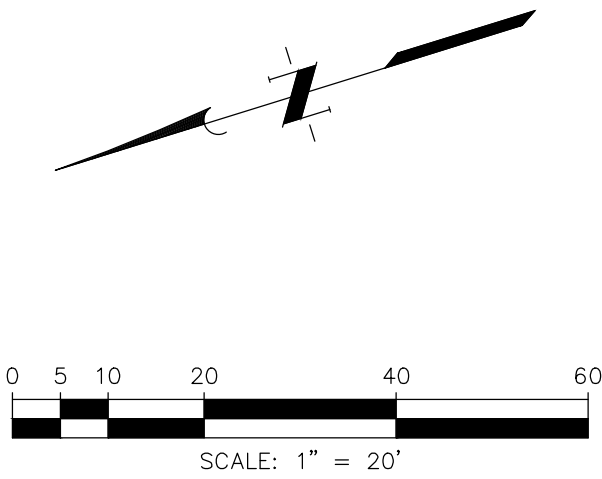
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

**YARD PIPING DEMOLITION
SECTION**

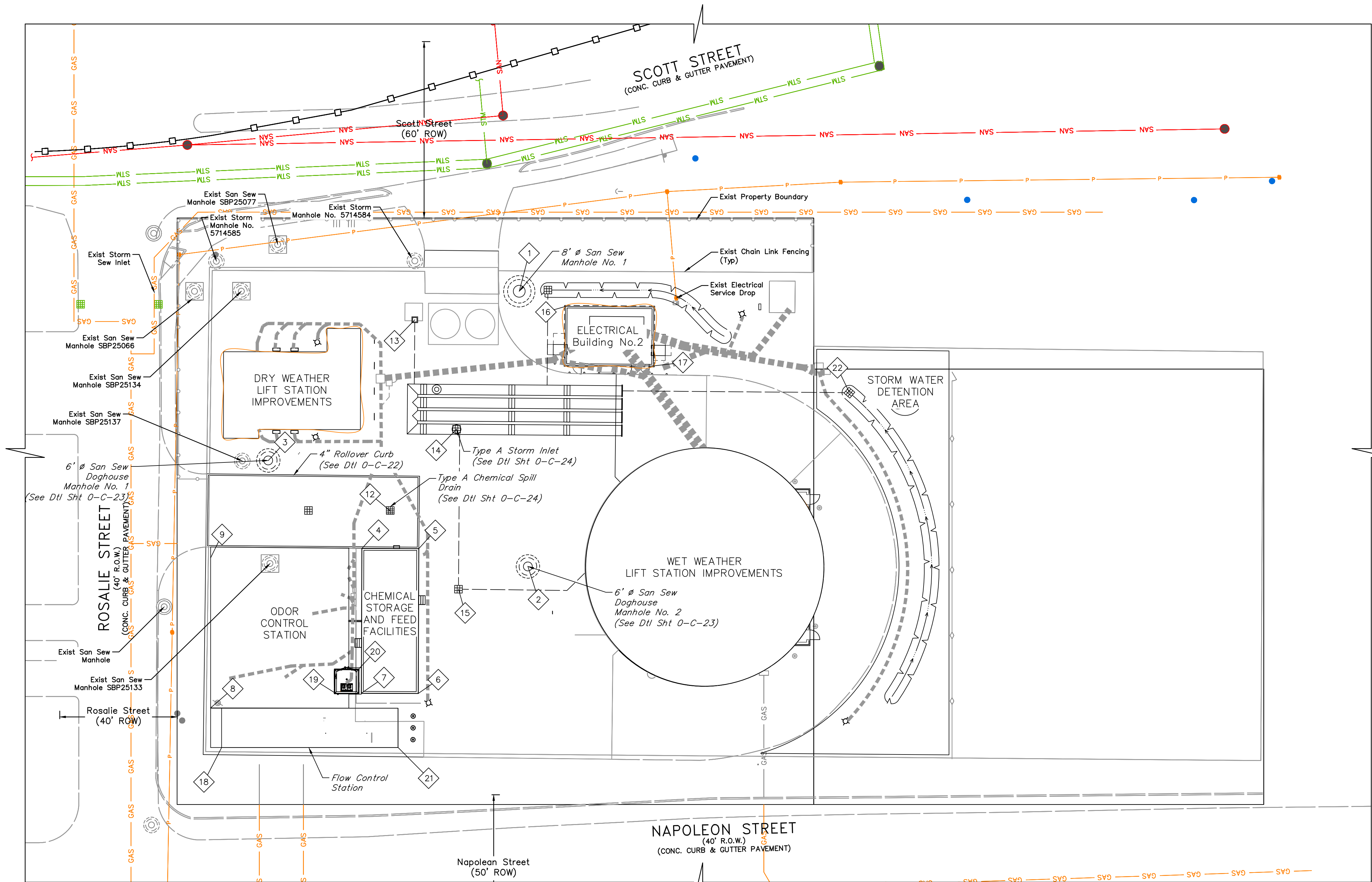
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: XXX' VERT: XXX'
CATEGORY NO. 0-C-6 SHEET NO. 12 OF XXX
FOR CITY OF HOUSTON USE ONLY



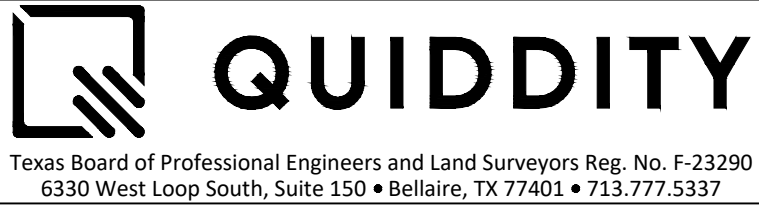
U. 1 / 4c.

COORDINATES LOCATIONS TABLE		
No.	NORTHING	EASTING
1	13830710.81	3126680.57
2	13830738.62	3126591.24
3	13830812.24	3126651.84
4	13830790.71	3126613.84
5	13830772.27	3126608.04
6	13830787.05	3126561.07
7	13830805.49	3126566.87
8	13830855.92	3126577.32
9	13830840.79	3126626.03
10	13830806.57	3126593.99
11	13830834.98	3126587.97
12	13830777.71	3126623.17
13	13830744.53	3126701.84
14	13830727.17	3126696.52
15	13830685.19	3126683.48
16	13830744.88	3126641.07
17	13830692.98	3126659.41
18	13830876.53	3126549.34
19	13830813.96	3126569.54
20	13830804.04	3126574.98



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

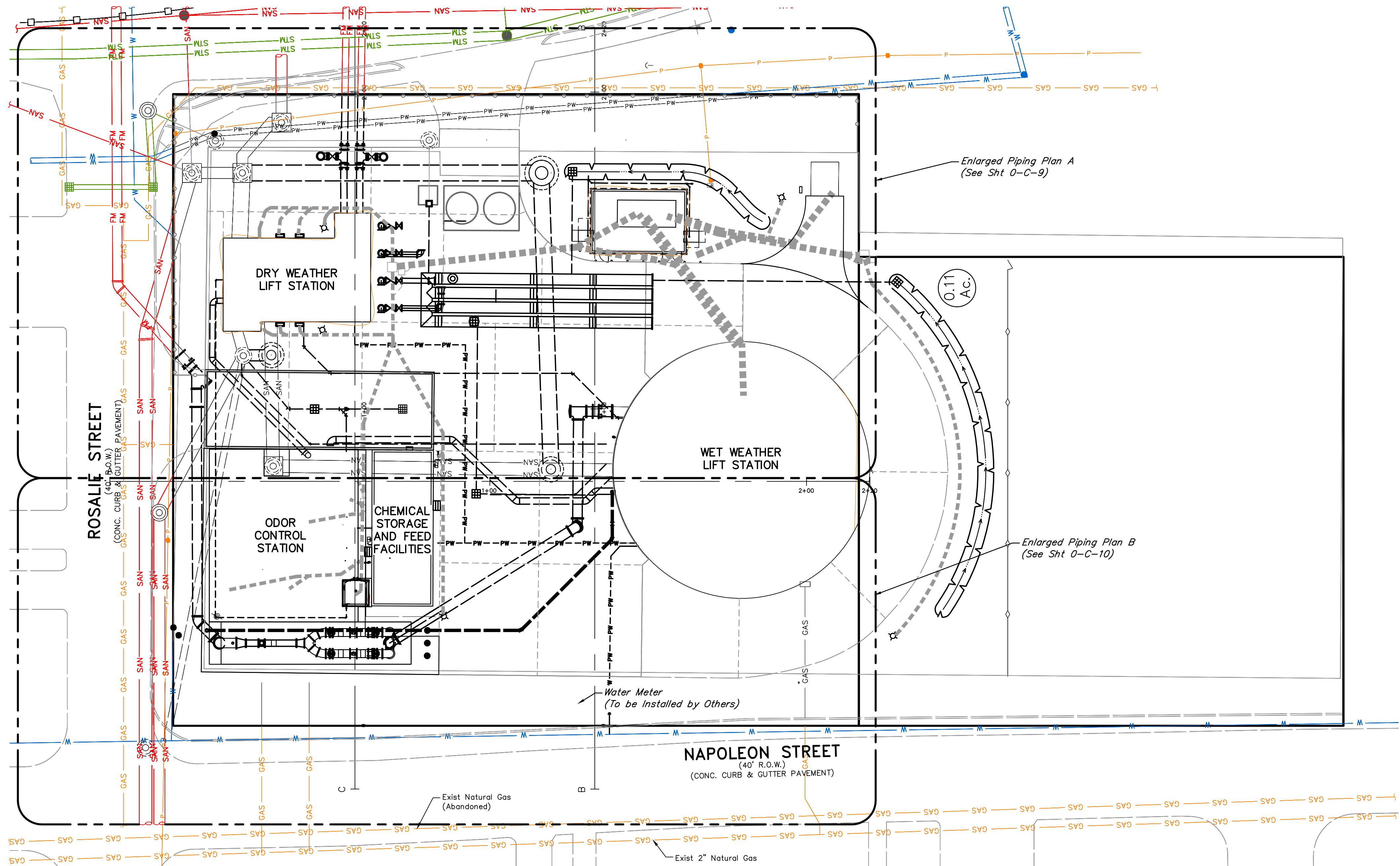
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

PROPOSED SITE PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-7 SHEET NO. 13 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS			APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

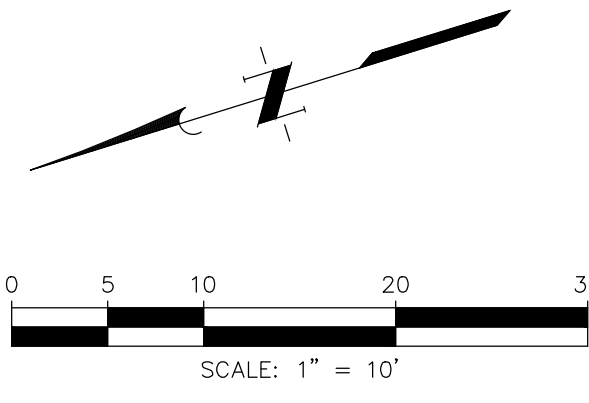
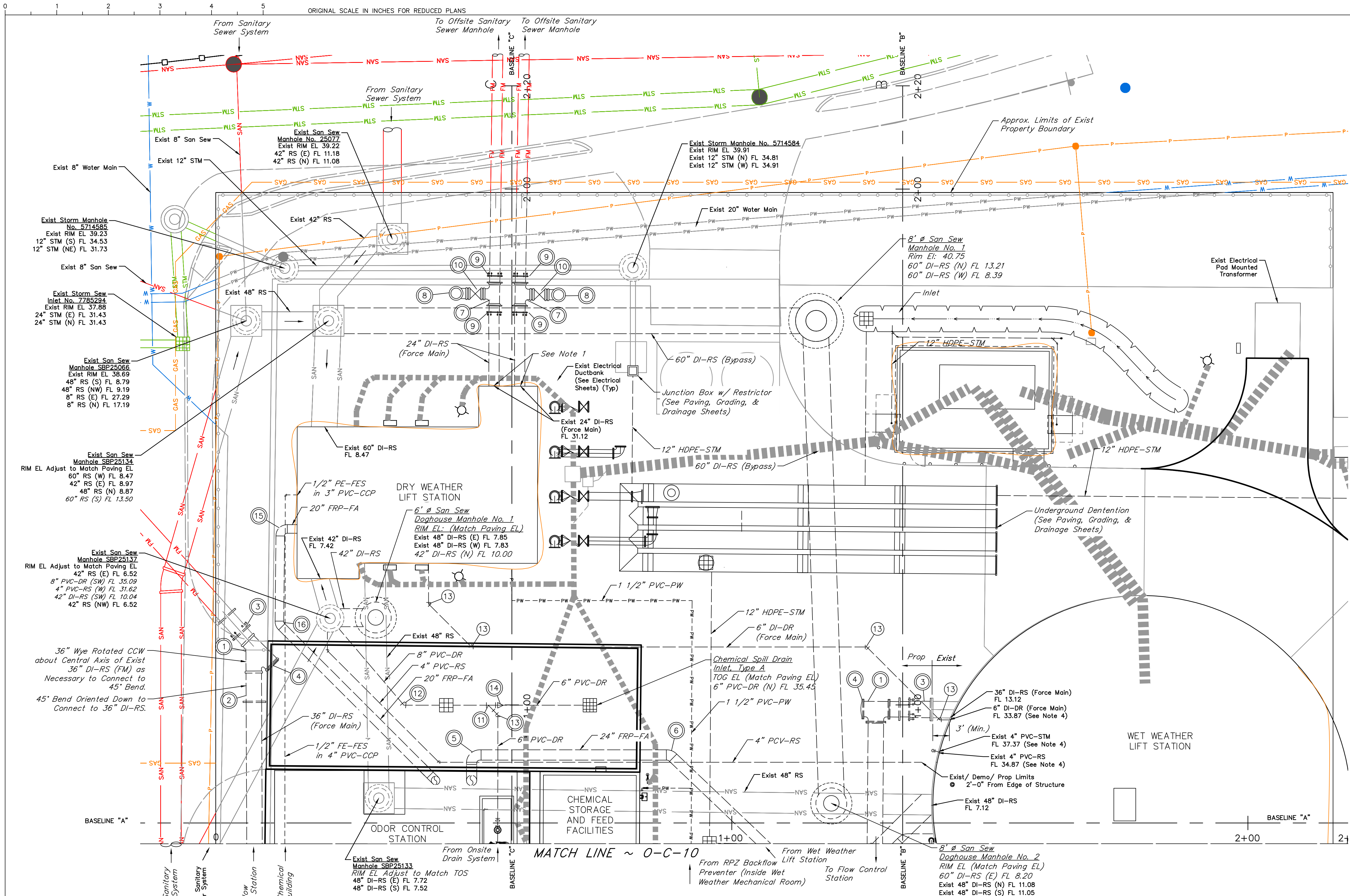
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

PROPOSED YARD PIPING
PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-8 SHEET NO. 14 OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

- Locations of underground facilities are per record drawings. Contractor shall field verify line sizes, use, and location of underground facilities prior to removal. Engineer to approve of all deviations.
- Existing underground Centerpoint facilities are per map request data. Contractor shall field verify the line sizes, use, and location prior to removal. Contractor shall coordinate with Centerpoint prior to removal of Centerpoint underground facilities.
- Waterline joints shall be a minimum of 9'-0" from centerline of sanitary crossings.
- The designated existing pipe shall extend a minimum of 2'-0" from the edge of the structure. Contractor shall provide and install restrained couplings to transition and connect to proposed piping.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

PROPOSED YARD PIPING
ENLARGED PLAN A

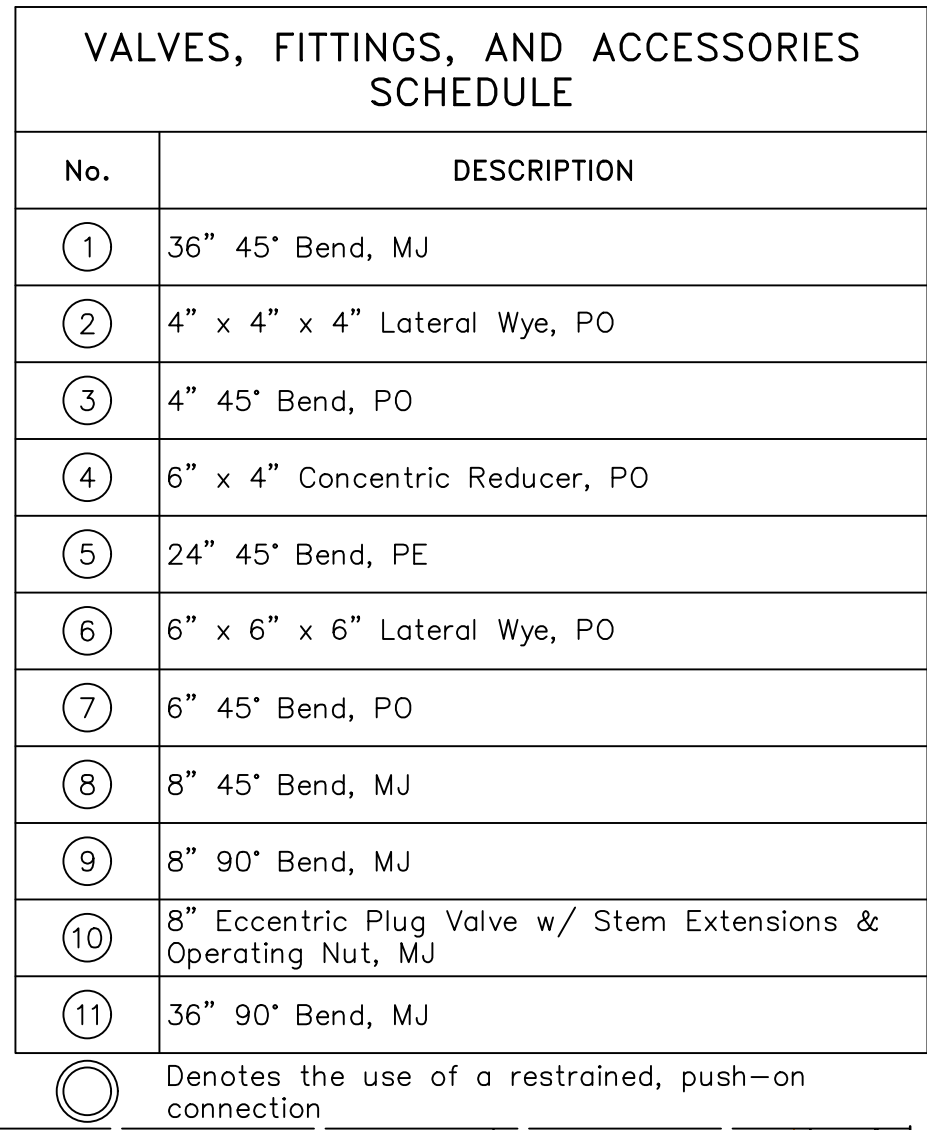
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 10' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-9 SHEET NO. 15 OF XXX
FOR CITY OF HOUSTON USE ONLY

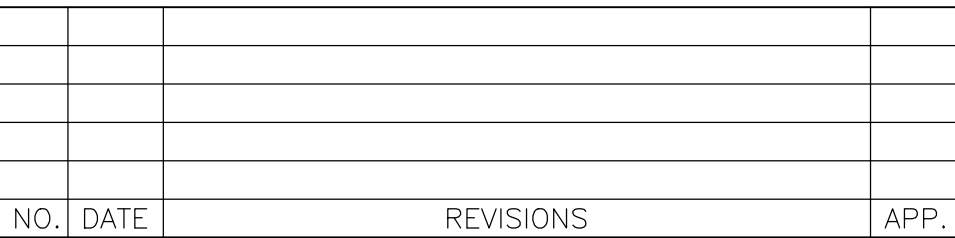
VALVES, FITTINGS, AND ACCESSORIES SCHEDULE

No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION
①	36"x36"x36" Tee Bend, MJ	⑥	24" 45° Bend, PE	⑪	8" x 8" x 6" Lateral Wye, PO	⑮	20" 90° Bend, PE
②	36" 45° Bend, MJ	⑦	24" Tee, FJ	⑫	8" 45° Bend, PO	⑯	6" x 6" x 4" Lateral Wye, PO
③	36" Sleeve Coupling	⑧	24" 90° Bend, FJ	⑬	6" 45° Bend, PO	⑰	4" 45° Bend, PO
④	36" Plug	⑨	24" Flange Coupling Adapter	⑭	8" x 6" Concentric Reducer, PO	⑱	6" 45° Bend, MJ
⑤	24" 90° Bend, PE	⑩	24" Gate Valve, MJ	⑮	20" 90° Bend, PE	⑳	6" Wye, MJ

⊙ Denotes the use of a restrained, push-on connection



1. All Pipe and Fittings shall be hot-dip galvanized steel, unless otherwise directed by the Engineer.
2. A Tapping Saddle may be used as approved by the Engineer.
3. All components shall be hot-dip galvanized. Apply galvanizing paint to all welds, threads and areas scraped or damaged during construction.



INTERIM REVIEW

Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026

DGN BY: MBMITCHELL

JOB NO: 00050-0099-01

DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

PROPOSED YARD PIPING
ENLARGED PLAN B

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

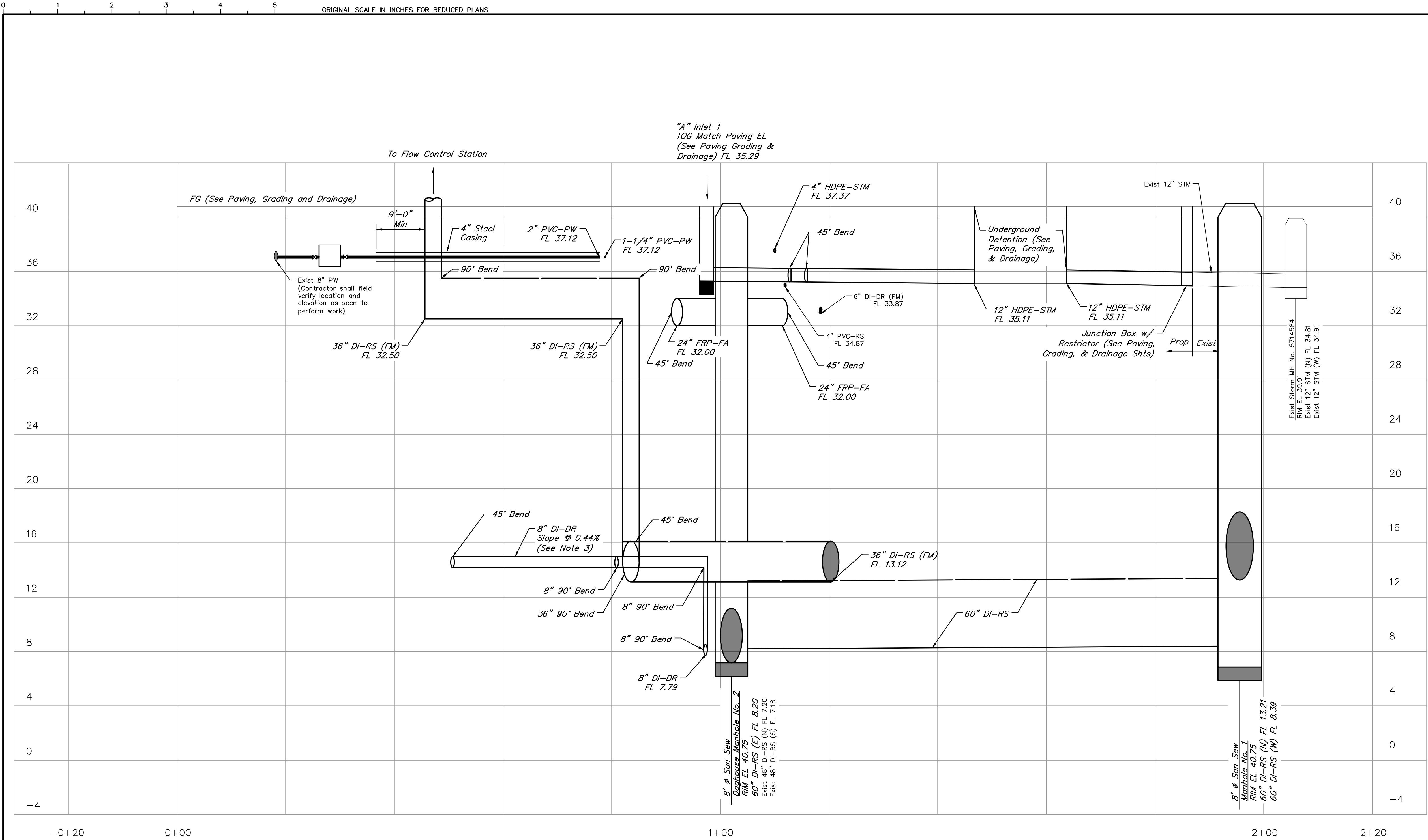
DRAWING SCALE 1" = 10' HORIZ: XXX VERT: XXX

HORIZ: XXX VERT: XXX

VERT: XXX

CATEGORY NO. 0-C-10 SHEET NO. 16 OF XXX

FOR CITY OF HOUSTON USE ONLY



BASELINE B

SCALE: Horizontal 1" = 10'
SCALE: Vertical 1" = 4'

NOTES:

- Locations of underground facilities are per record drawings. Contractor shall field verify line sizes, use, and location of underground facilities prior to removal. Engineer to approve of all deviations.
- Electrical ductbanks shall maintain a minimum horizontal distance of 3'-0" between proposed pipes.
- Contractor shall coordinate flowlines of pipe and fittings based on the existing FL of 36" DI-RS (FM) at the tie-in location and required orientation of pipe and fittings to make connection. Contractor shall field verify the existing 36" DI-RS pipe elevation and location at the proposed tie-in location and report findings to Engineer prior to submitting shop drawings.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: SSOMERS

NOTE: CITY SIGNATURES VALID FOR ONE
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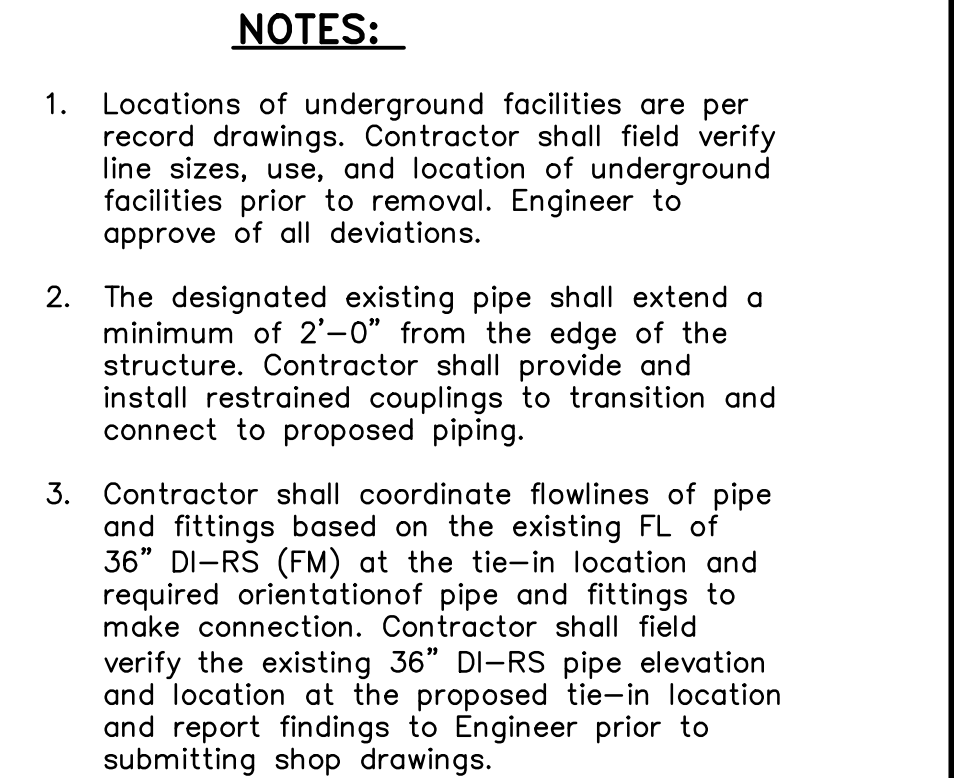
SCOTT STREET No. 1
LIFT STATION REHABILITATION

PROPOSED YARD PIPING
BASELINE B

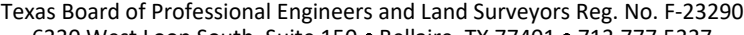
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 10' HORIZ: XXX VERT: XXX

CATEGORY NO. 0-C-12 SHEET NO. 18 OF XXX
FOR CITY OF HOUSTON USE ONLY



INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: SSOMERS

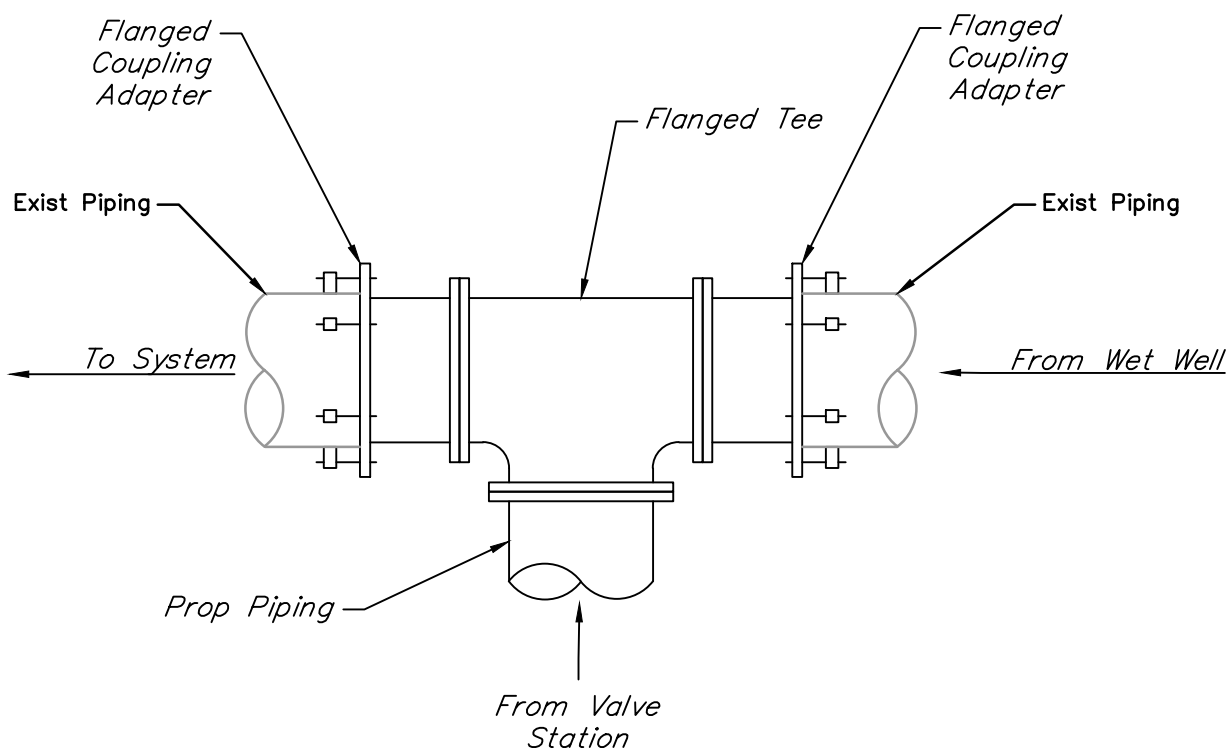
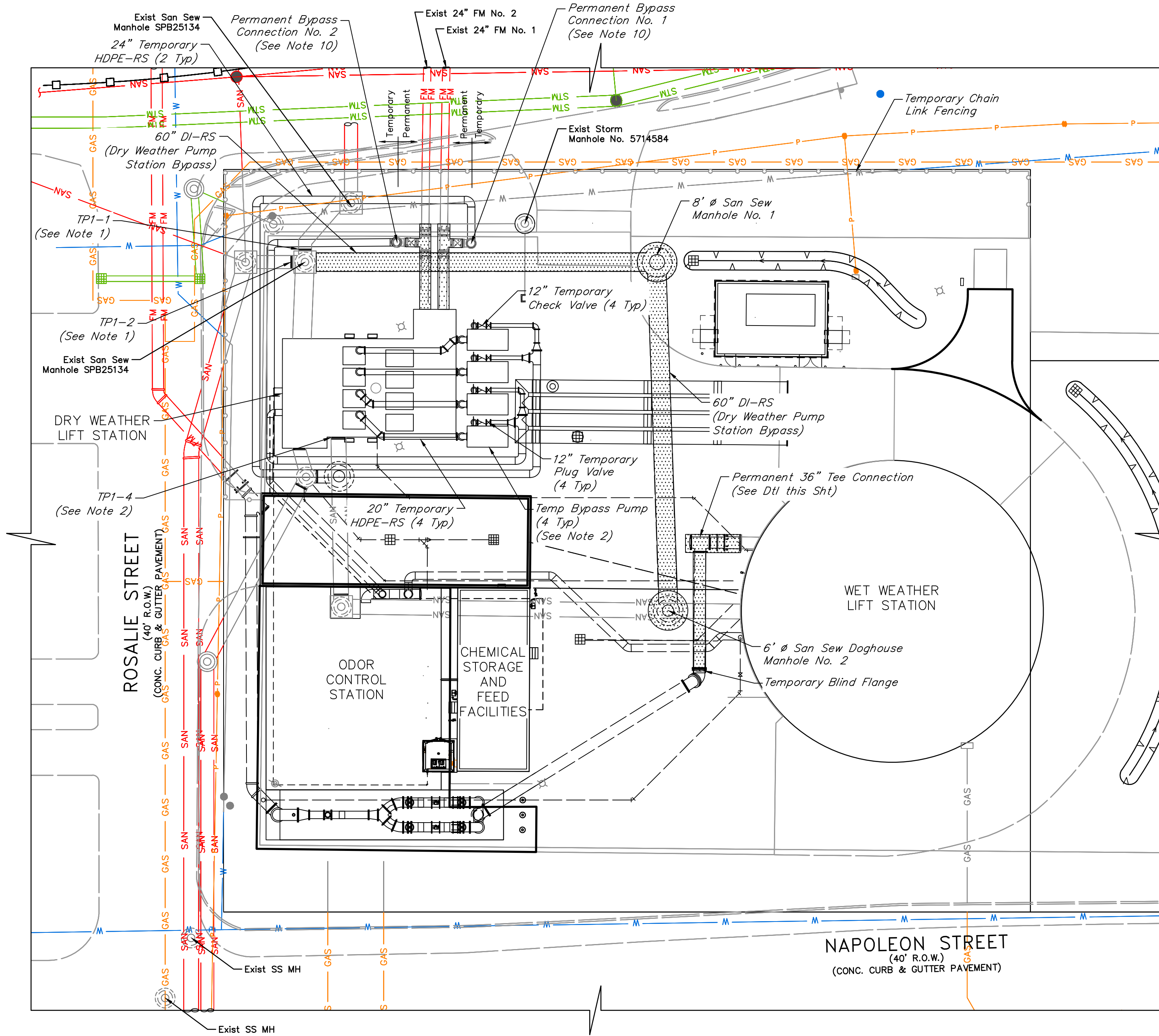
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

PROPOSED YARD PIPING BASELINE C

DRAWING SCALE 1" = 10' HORIZ: XXX VERT: XXX

CATEGORY NO. **0-C-13** SHEET NO. 19 OF XXX

FOR CITY OF HOUSTON USE ONLY



PERMANENT 36" TEE DETAIL

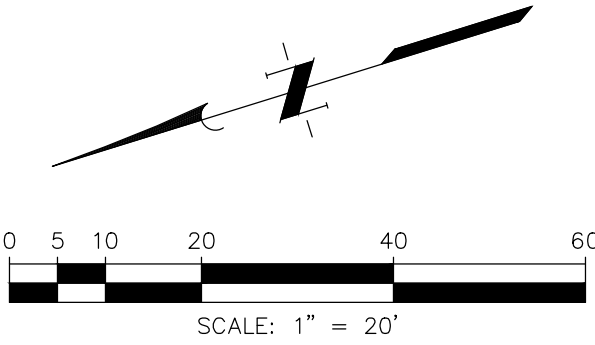
SCALE - 1/4"=1'

PHASE 1:

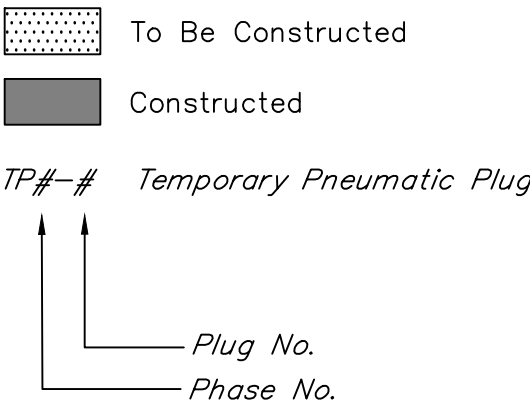
OBJECTIVE:	Install Permanent Bypass Connection Nos. 1 & 2 and set up and operate phase 1 bypass pump system to install 60" DI-RS, San Sew MH No. 1 and San Sew Doghouse MH No. 2. Phase 1 Bypass shall be performed and completed during dry weather flow.
1	Contractor shall coordinate with Operator to isolate exist 24" FM No. 1 and temporarily route all dry weather pump station flow through exist 24" FM No. 2 to install Permanent Bypass Connection No. 1.
2	Contractor shall coordinate with Operator to isolate exist 24" FM No. 2 and temporarily route all dry weather pump station flow through exist 24" FM No. 1 to install Permanent Bypass Connection No. 2.
3	Contractor shall set up and put bypass pump system into service. Influent raw sewage shall flow into the exist Dry Weather Lift Station wet well. Contractor shall coordinate with Operator to remove existing Dry Weather Lift Station pumps and controls from service. Bypass pump system shall suction lift from wet well and pump flow into and through the existing force mains via Permanent Bypass Connection Nos. 1 & 2.
4	Perform all work necessary to install proposed 60" DI-RS, 8' ϕ San Sew MH No. 1 and 6' ϕ San Sew Doghouse MH No. 1.
5	Contractor shall construct proposed Permanent 36" Tee Connection and install temporary blind flange a minimum 10' west of San Sew Doghouse MH No. 2.
6	Construct Storm Sewer Nos. 1, 2, and 2, and Storm Sewer Inlet No. 1 and associated connectind underground pipes. Contractor shall make temporary connection from Exist 18" Storm Sewer to Storm Sewer MH No. 1. Contractor shall not make proposed 18" Storm Sew connection to Storm Sew No. 2 until exist storm sew inlet can be removed from service and proposed Storm Sew Inlet No. 2 can be constructed and put into service. Contractor shall maintain storm sewer service and positive drainage for throughout all construction.

BYPASS NOTES:

- Contractor may install temporary pneumatic plugs as necessary to make proposed 60" DI-RS connection to Exist San Sew MH. Contractor shall take all measures to limit duration of temporary plug operation. Contractor shall monitor water surface upstream of temporary plugs. Contractor shall provide and install additional bypass pumps as required to pump from Exist San Sew MH SPB25134 to Dry Weather Wet Well as required and as directed by the Engineer. Include cost in base bid.
- Water surface upstream of temporary plugs shall not exceed # water depth.
- Water Depth during the Phase 1 Bypass shall not exceed # in the Dry Weather Lift Station wet well at any time during the bypass operation.
- Contractor shall assume all responsibility for providing adequate system monitoring including cellular autodialer, floats and controls, bypass set-up, operation, and spills (no separate pay). Bypass pumping shall include delivery, set-up, means of power, and removal for the duration of the required bypass. The duty condition for the Phase 1 Bypass System A is 10,185 gpm at ## TDH (2 pumps pumping through 1 Force Main). The duty condition for the Phase 1 Bypass System B is 65 gpm at ## TDH (1 pump pumping through 1 Force Main). Contractor shall provide 3 duty pump (min.) and 1 spare.
- Contractor shall secure all bypass pumping equipment at all times.
- Contractor shall be responsible for leaks on cleanup related to bypass system at no additional cost to Owner. Contractor shall alert the Owner of any leaks or spills immediately.
- Contractor shall provide and install all the plugs, valves, fittings, blocks, restraints, supports, pumps, controls, monitoring, piping, and labor required for controlling and diverting necessary for the work and preventing interruption of service, surcharging the system and/or overflowing the system.
- All temporary piping shall be PVC or fusion welded HDPE.
- Bypass shall remain in place until demonstration period has been completed.
- Contractor shall coordinate with the Operator and Engineer prior to shutting down the lift station for bypass pumping.
- Contractor shall install blind flange on the first above ground flange on permanent bypass connection Nos. 1 & 2 after all bypass work is complete.

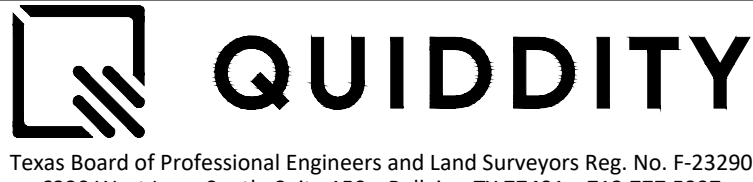


LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

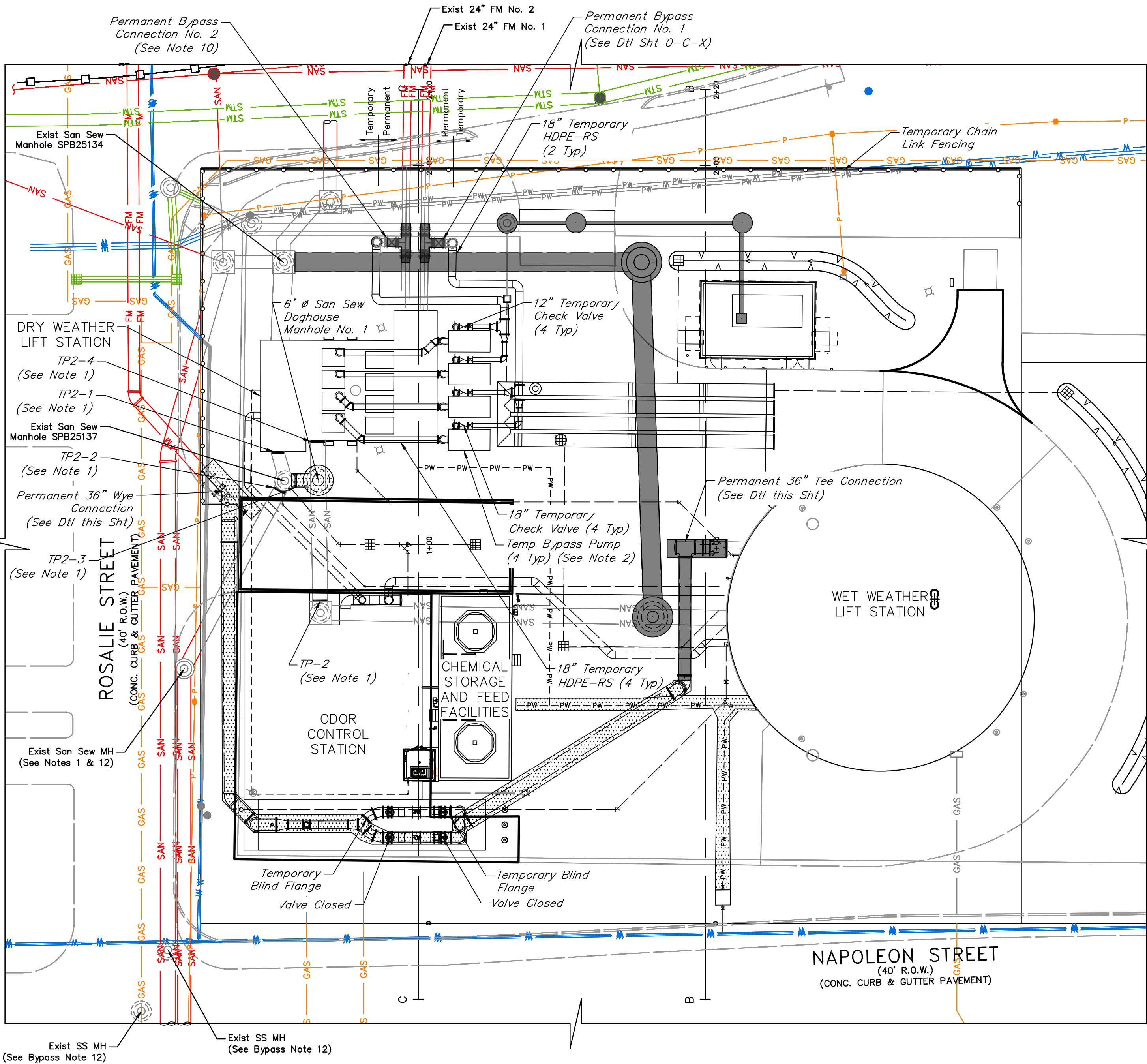
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
CONSTRUCTION SEQUENCING
AND
PHASE 1 BYPASS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-14 SHEET NO. 20 OF XXX
FOR CITY OF HOUSTON USE ONLY



PHASE 2:

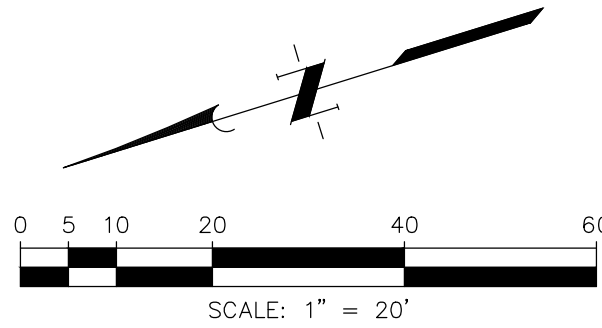
OJECTIVE: Set up and operate Phase 2 Bypass Pump System. Construct proposed San Sew Doghouse Manhole No. 2 and 42" DI-RS Overflow. Complete Permanent 36" Tee Connection, construct Permanent 36" Permanent Wye Connection, and 8" drain line from 36" tap up to Phase 1 Bypass shall be performed and completed during dry weather flow and through exterior wall of wet weather facility.

NOTES:

- Contractor may install temporary pneumatic plugs as necessary to make proposed 42" DI-RS connection to Exist San Sew MH. Contractor shall take all measures to limit duration of temporary plug operation. Contractor shall monitor water surface upstream of temporary plugs. Water surface upstream of temporary plugs shall not exceed # water depth. Contractor shall coordinate with Operator to temporarily suspend flow from Wet Weather restroom facilities to sanitary.

BYPASS NOTES:

- Contractor shall install temporary pneumatic plugs as necessary to make proposed connection to Exist San Sew MH. Contractor shall take all measures to limit duration of temporary plug operation. Contractor shall monitor water surface upstream manhole. Contractor shall provide and install additional bypass pumps as required to pump from Exist San Sew MH SPB25137 to Dry Weather Wet Well as required and as directed by the Engineer. Include cost in base bid.
- For the duration of bypass phase 2, water surface in Dry Weather Wet Well and upstream sanitary sewer manholes shall not exceed 22.0' at any time during bypass operation.
- Contractor shall assume all responsibility for providing adequate system monitoring including cellular autodialer, floats and controls, bypass set-up, operation, and spills (no separate pay). Bypass pumping shall include delivery, set-up, and removal for the duration of the required bypass. The bypass system shall provide a total flow of 15,278 gpm with 4 pumps (3 duty, and 1 spare) at Duty Point 2A and Duty Point 2B (Specification 01652).
- Contractor shall secure all bypass pumping equipment at all times.
- Contractor shall be responsible for leaks an cleanup related to bypass system at no additional cost to Owner. Contractor shall alert the Owner of any leaks or spills immediately.
- Contractor shall provide and install all the plugs, valves, fittings, blocks, restraints, supports, pumps, controls, monitoring, piping, and labor required for controlling and diverting necessary for the work and preventing interruption of service, surcharging the system and/or overflowing the system.
- All temporary piping shall be PVC or fusion welded HDPE or flanged composite pipe (Midwest Hose & Specialty or approved equal).
- Bypass shall remain in place until work completed under Phase 2 has been inspected and approved for temporary construction service.
- Contractor shall coordinate with the Operator and Engineer prior to shutting down the Dry Weather Lift Station for bypass pumping.
- Contractor shall provide and additional bypass pump system to convey wet weather flow for duration that overflow to wet weather facility is out of service as required by Engineer. Include in base bid.
- Exist manhole location upstream of San Sew MH SBP25137 shown per record drawings. Contractor shall field verify location of Exist MH upstream of San Sew MH SBP25137 prior to commencing Bypass Phase 2 and report findings to Engineer unless directed otherwise. Contractor shall monitor water surface elevation.
- Contractor shall coordinate with Operator to adjust the Wet Weather pump calls above Dry weather pump system pump calls.



LEGEND:

- To Be Constructed
- Constructed

TP#-# Temporary Pneumatic Plug
Plug No.
Phase No.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

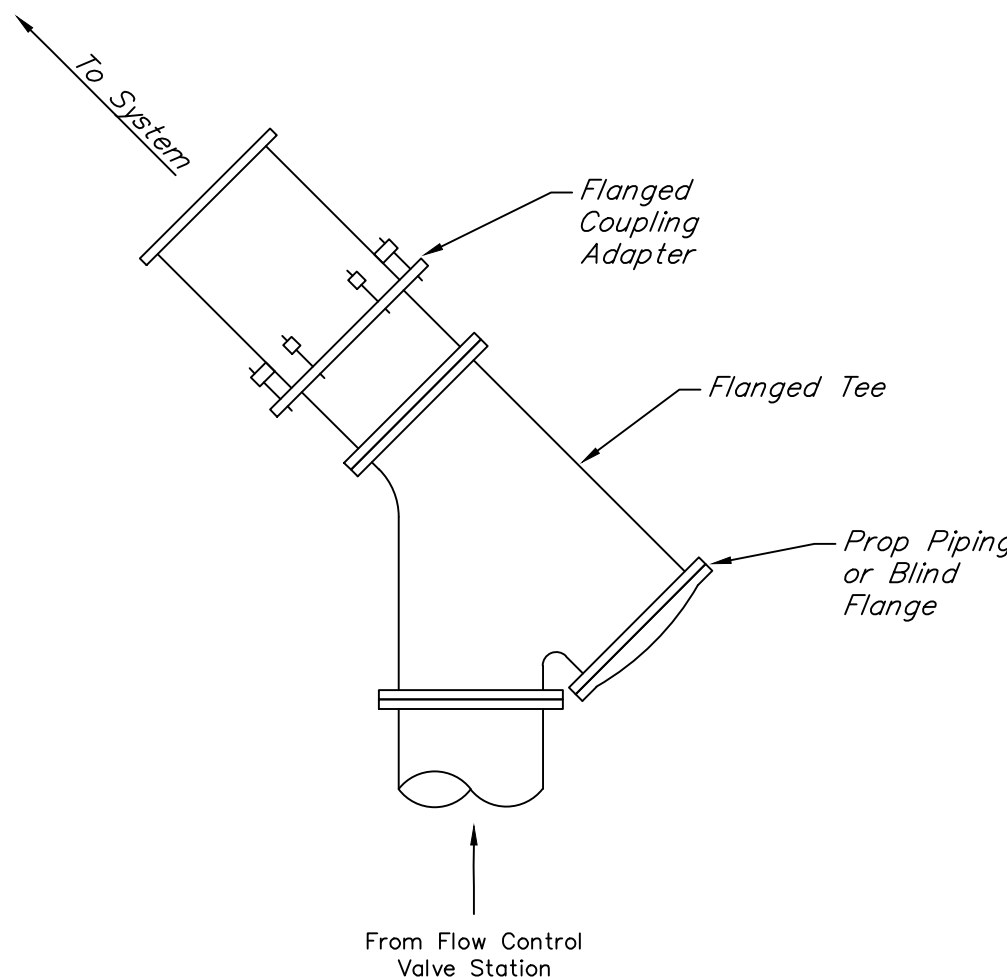
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

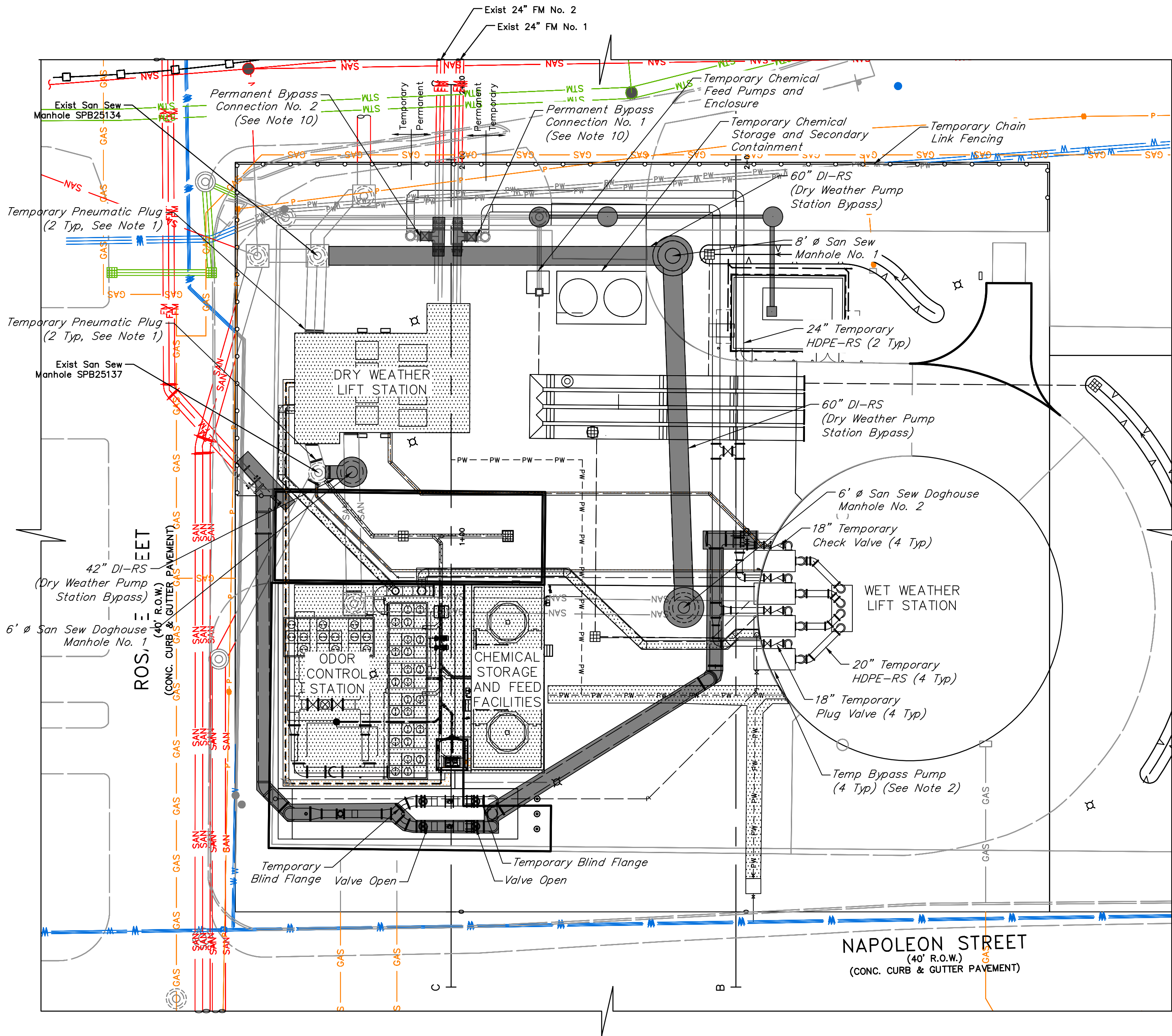
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
CONSTRUCTION SEQUENCING
AND
PHASE 2 BYPASS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-15 SHEET NO. 21 OF XXX
FOR CITY OF HOUSTON USE ONLY





PHASE 3:

OJECTIVE: Set up and operate Phase 3 Bypass Pump System. Set up and operate Temporary Chemical Storage and Chemical Feed System. Construct Dry Weather Lift Station Improvements. Construct proposed Chemical Storage and Feed Facility Replacement. Construct Odor Control Station.

Contractor shall set up and operate Phase 3 Bypass Pump System. Contractor shall install and maintain temporary plugs to isolate the Dry Weather Lift Station from influent raw sewage. Influent raw sewage shall be diverted to the Wet Weather Wet Well via the bypass lines installed in Phases 1 & 2. Contractor shall coordinate with Operator to adjust Wet Weather Pump settings. Contractor shall coordinate with Operator to lock out Wet Weather Drain Pump Nos. 1 & 2 from service for the duration that Dry Weather Lift Station is out of service. 6\"/>

Contractor shall provide, install, operate, and maintain temporary chemical storage tanks and temporary chemical feed equipment. Minimum required temporary chemical storage capacity shall be 18,750 gallons. Chemical storage tanks shall have secondary containment instrumentation to detect leak. Temporary chemical metering pumps and controls shall be provided as described in Specification Section 11.161 (1 duty, 1 spare). Contractor shall provide temporary power for duration of temporary chemical system operation and until proposed chemical facilities demonstration period has concluded and the facilities are approved for temporary construction service. Contractor shall make temporary chemical storage tanks accessible to the Operator for chemical delivery at all times. Chemical shall be supplied by the Owner. Contractor shall monitor the chemical level and coordinate with the Operator for chemical deliveries.

Transfer Wet Weather Lift Station service to proposed 36\"/>

Contract proposed Chemical Storage and Feed Facility Replacement.

Construct proposed Odor Control Station

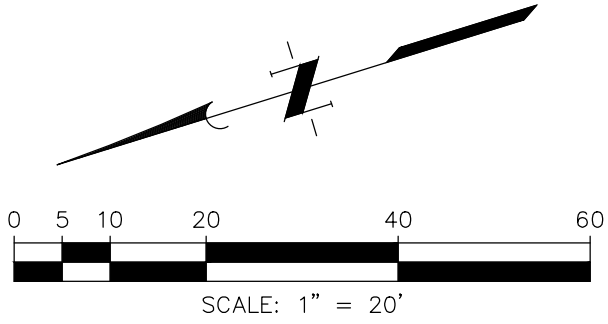
Construct 20\"/>

NOTES:

- Contractor may install temporary pneumatic plugs as necessary to make proposed 42\"/>

BYPASS NOTES:

- Contractor shall install temporary pneumatic plug TPP3-1, TPP3-2 and TPP3-3 as necessary to isolate the Dry Weather Lift Station Wet Well from service and direct all influent raw sewage to the Wet Weather Wet Well.
- For duration of Bypass Phase 3, water surface elevation in the Wet Weather Wet Well shall not exceed 22.0' at any time.
- Contractor shall assume all responsibility for providing adequate system monitoring including cellular autodialer, floats and controls, bypass set-up, operation, and spills (no separate pay). Bypass pumping shall include delivery, set-up, means of power, and removal for the duration of the required bypass. The bypass system shall provide a total flow of 34,722 gpm with 8 pumps (7 duty, 1 spare), at 4,960 gpm per pump at 85' TDH.
- Contractor shall secure bypass pumping equipment at all times.
- Contractor shall be responsible for leaks and cleanup related to bypass system at no additional cost to Owner. Contractor shall alert Owner of any leaks or spills immediately.
- Contractor shall provide and install all plugs, valves, fittings, blocks, restraints, supports, pumps, controls, monitoring, piping, and labor required for controlling and diverting flow as necessary to perform work and preventing interruption of service, surcharging the system and/or overflowing the system.
- All temporary piping shall be PVC or fusion welded HDPE or flanged composite pipe (Midwest Hose & Specialty or approved equal).
- Bypass shall remain in place until work completed under Phase 3 has been inspected and approved for temporary construction service.
- Contractor shall coordinate with the Operator and Engineer prior to removing the Dry Weather Lift Station for service for bypass pumping.
- Contractor shall coordinate with the Operator and Engineer prior to operate Wet Weather Lift Station during a wet weather event.
- Operator shall dewater the dry weather lift station down to the existing all pumps off elevation (~5.5' above FF). Contractor shall remove all remaining bulk liquid, grit, solid, and semi-solid materials and dispose at a TCEQ permitted facility.



LEGEND:

To Be Constructed

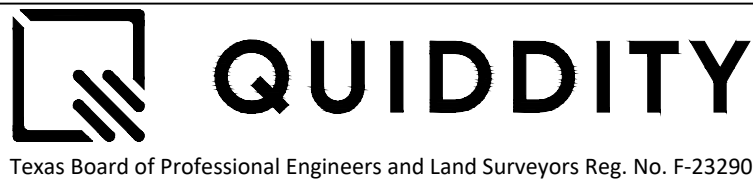
Constructed

TP#-# Temporary Pneumatic Plug

Plug No.
Phase No.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
CONSTRUCTION SEQUENCING
AND
PHASE 3 BYPASS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1" = 20' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-16 SHEET NO. 22 OF XXX
FOR CITY OF HOUSTON USE ONLY

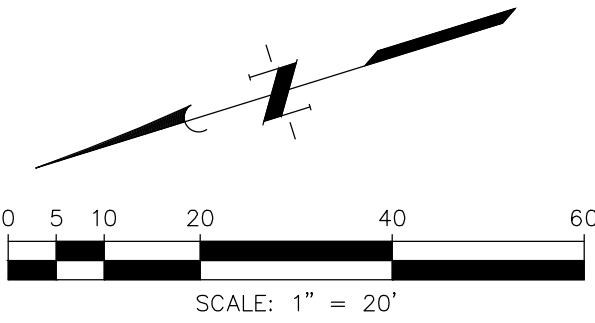
PHASE 4	
OBJECTIVE	Contractor shall Set-up Bypass Systems and Perform Construction at the Odor Control System, and Wet Weather Facility.
1	Contractor shall Set-up Bypass System for Wet Weather Facility, See Notes this Sheet.
2	Contractor shall Set-Up Dry Weather Phase 3 Bypass System. Dry Weather Phase 4 Bypass System shall match Dry Weather Phase 2 Bypass System.
3	Prior to Placing Bypass System Online Contractor shall install Blind Flanges on Tees.
4	Contractor to Perform Rehabilitation work at the Wet Weather Facility. Contractor shall provide Temporary power to Dry Weather Pump Station while work at the Wet Weather Station is being Completion.
5	Contractor shall provide temporary power and equipment to wet weather facility as necessary to complete the work. (i.e. lighting, ventilation, tools, etc)
6	Contractor shall provide temporary power to the chemical storage and feed facility.
7	Odor Control System shall not be put into operation until all wet weather facility improvements are complete and the wet weather facility has been started up and demonstration period as been completed and the system approved for service.
8	Flow control station header 2 shall be constructed. Spool pieces shall be temporarily installed in place of flow control valves and flow control valves shall not be installed until all wet weather facility improvements are complete and are ready for start up testing and demonstration.

WET WEATHER BYPASS NOTES:

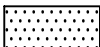
- Contractor shall install temporary pneumatic plug TPP4-1 as necessary to isolate the Wet Weather Lift Station Wet Well from service. Wet Weather Bypass pumps shall pull suction lift from San Sew MH No.1.
- Contractor shall assume all responsibility for providing adequate system monitoring including cellular autodialer, floats and controls, bypass set-up, operation, and spills (no separate pay). Bypass pumping shall include delivery, set-up, means of power, and removal for the duration of the required bypass. The bypass system shall provide a total flow of 34,722 gpm with 8 pumps (7 duty, 1 spare), at 4,960 gpm per pump at 85' TDH.
- Water surface elevation in the bypass manhole shall not exceed 30.25 feet at any time during wet weather flow event while the wet weather facility is out of service.
- Contractor shall coordinate with the operator and install floats inside the bypass manhole at elevations necessary to maintain an operational system. During bypass, the contractor shall cover the manhole with a wooden lid.
- Contractor shall secure all bypass pumping equipment at all times.
- Contractor shall be responsible for leaks and cleanup related to bypass system at no additional cost to Owner. Contractor shall alert the Owner of any leaks or spills immediately.
- Contractor shall provide and install all plugs, valves, fittings, blocks, restraints, supports, pumps, controls, monitoring, piping, and labor required for controlling and diverting necessary for the work and preventing interruption of service, surcharging the system and/or overflowing the system.
- All temporary piping shall be PVC or fusion welded HDPE.
- Bypass shall remain in place until the demonstration period has been completed.
- Contractor shall coordinate with the Operator and Engineer prior to removing the wet weather lift station out of service for bypass pumping.
- Contractor shall field verify the piping diameter at the bypass manhole prior to providing and installing temporary plugs.
- Contractor is responsible for removing the manhole ring (if necessary) to allow proper installation and operation of the bypass plan. Contractor shall re-install remove manhole ring and repair the manhole to like new condition, complete with grouting, upon completion of bypass operation.

DRY WEATHER BYPASS NOTES:

- For duration of Bypass Phase 4, water surface elevation in Dry Weather Wet Well shall not exceed 22.0' at any time during dry weather flow.
- Contractor shall assume all responsibility for providing adequate system monitoring including cellular autodialer, floats and controls, bypass set-up, operation, and spills (no separate pay). Bypass pumping shall include delivery, set-up, means and methods, and removal for the duration of the required bypass. The bypass system shall provide a total flow of 15,278 gpm with 4 pumps (3 duty, 1 spare), at Duty Point 4A and Duty Point 4B (Specification 01652).
- Contractor shall secure all bypass pumping equipment at all times.
- Contractor shall be responsible for leaks and cleanup related to bypass system at no additional cost to Owner. Contractor shall alert the Owner of any leaks or spills immediately.
- Contractor shall provide and install all plugs, valves, fittings, blocks, restraints, supports, pumps, controls, monitoring, piping, and labor required for controlling and diverting necessary for the work and preventing interruption of service, surcharging the system and/or overflowing the system. A minimum of one pump and one spare shall be.
- All temporary piping shall be PVC or fusion welded HDPE.
- Bypass shall remain in place until the demonstration period has been completed.
- Contractor shall coordinate with the Operator and Engineer prior to shutting down the lift station for bypass pumping.
- Contractor shall field verify the piping diameter at bypass manhole prior to providing and installing the temporary plugs.



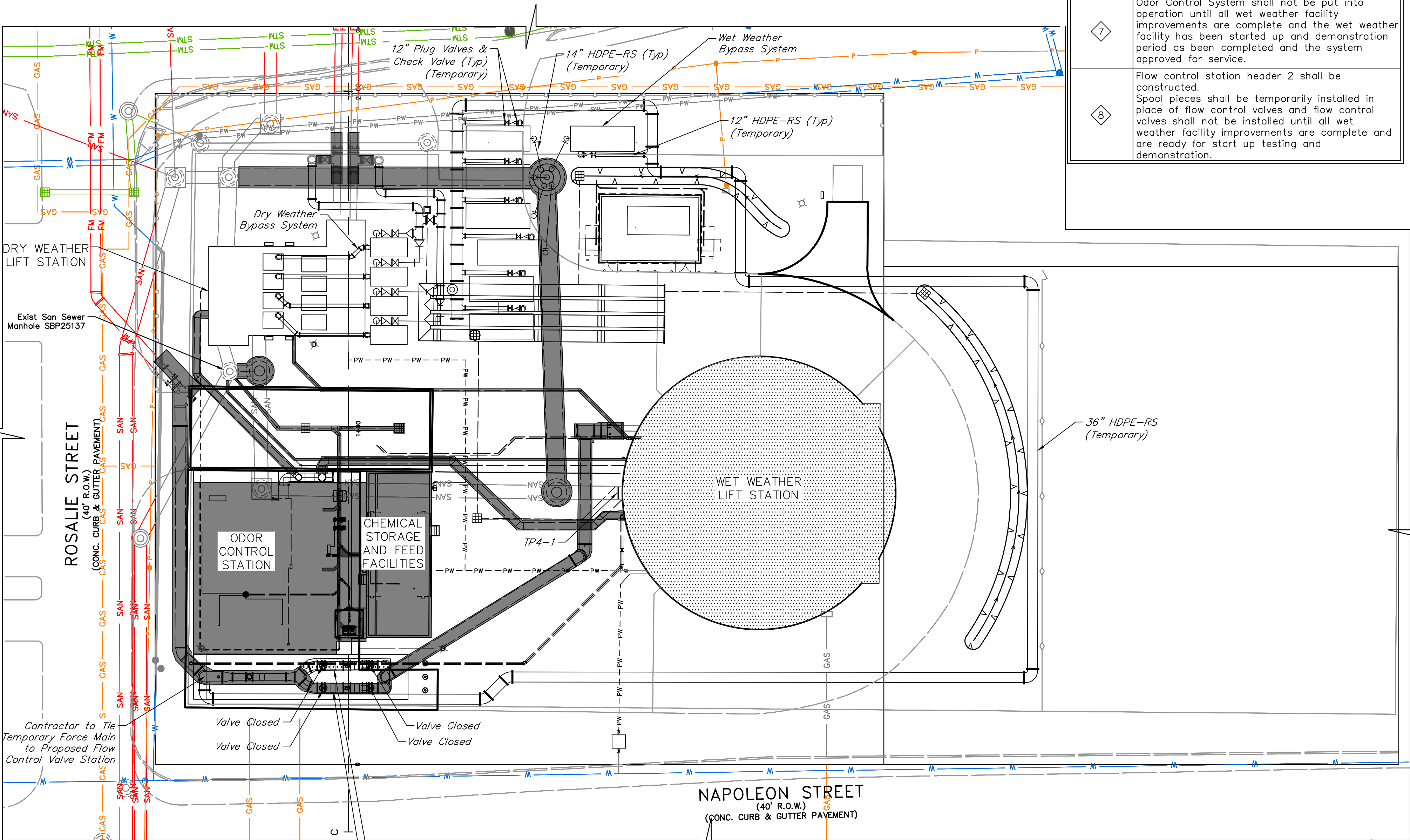
LEGEND:

 To Be Constructed

 Constructed

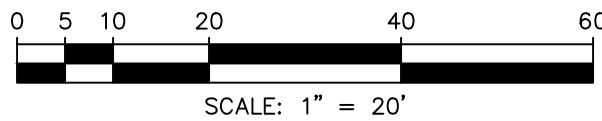
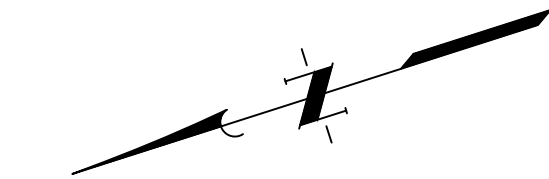
TP#-# Temporary Pneumatic Plug

— Plug No.
— Phase No.



LEGEND:

EXISTING	PROPOSED	
		EDGE OF PAVEMENT
		DRAINAGE SWALE
		TOP OF BANK
		PROPERTY LINE
		PIPELINE
		EASEMENT
		FENCE
		EXISTING PAVEMENT TO REMAIN
		PROPOSED CONCRETE MAINTENANCE (TO BE REMOVED AND REPLACED)
		PROPOSED REINFORCED CONCRETE
		3" ROLLOVER CURB (SEE DETAIL ON SHEET 0-C-22)



NOTES:

- CONTRACTOR TO REFER TO GEOTECHNICAL ENGINEERING REPORT NO. _____ PREPARED BY _____ FOR RECOMMENDATIONS.
- PROJECT WILL NOT ADVERSELY AFFECT ADJOINING PROPERTIES
- PAVEMENT ELEVATIONS CAN BE FOUND ON SHEET 0-C-21 OF THIS PLAN SET.
- CONTRACTOR TO FORMALLY SUBMIT A JOINT LAYOUT PLAN TO ENGINEER OF RECORD IN ACCORDANCE WITH DETAIL SHOWN ON SHEET 0-C-34 FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- NO PAVING WORK IN THE RIGHT-OF-WAY.

BENCH MARK

A BRASS DISC STAMPED "RM 070215" LOCATED AT THE END OF YAUPON HOLLY LANE AT ITS INTERSECTION WITH EASTERN REDBUD LANE, ON TOP OF A "B-B" INLET AT THE NORTHWEST CORNER OF THE INTERSECTION. ELEVATION = 64.76 FEET NAVD 88 (2001 ADJUSTMENT)

T.B.M. "A"

A CHISELED SQUARE ON THE BULL NOSE OF THE ESPLANADE LOCATED ON WEST LAKE HOUSTON PARKWAY APPROXIMATELY 970 FEET NORTH OF THE CENTERLINE INTERSECTION OF SUMMER LAKE RANCH DRIVE AND WEST LAKE HOUSTON PARKWAY. ELEVATION = 55.34 FEET NAVD 88 (2001 ADJUSTMENT)

T.B.M. "B"

A CHISELED SQUARE ON TOP OF A "B-B" INLET AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SUMMER LAKE RANCH DRIVE AND WEST LAKE HOUSTON PARKWAY. ELEVATION = 53.67 FEET NAVD 88 (2001 ADJUSTMENT)

100-YEAR FLOOD PLAIN

THIS TRACT LIES WITHIN UNSHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY OF CITY OF HOUSTON, MAP NO. 48201C0880M, PANEL 0880 OF 1150, SUFFIX "M" DATED JANUARY 6, 2017, FOR HARRIS COUNTY TEXAS AND INCORPORATED AREAS. UNSHADED ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

NOTICE:

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VERIFICATION OF PRIVATE UTILITY LINES

Date: _____
CenterPoint Energy natural gas utilities shown.
(Gas service lines are not shown). This signature not to be used for conflict verification.
Signature Valid for six months.

Date: _____
CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY.
(This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date: _____
Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: LAUREN J. MUDD, P.E.

P.E. Serial No.: 153971

Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26 DGN BY: JK
JOB NO: 00050-0099-01 DWG BY: JLG

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

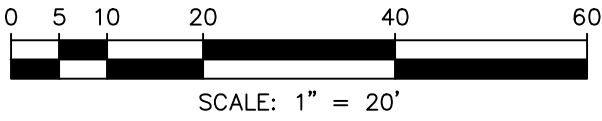
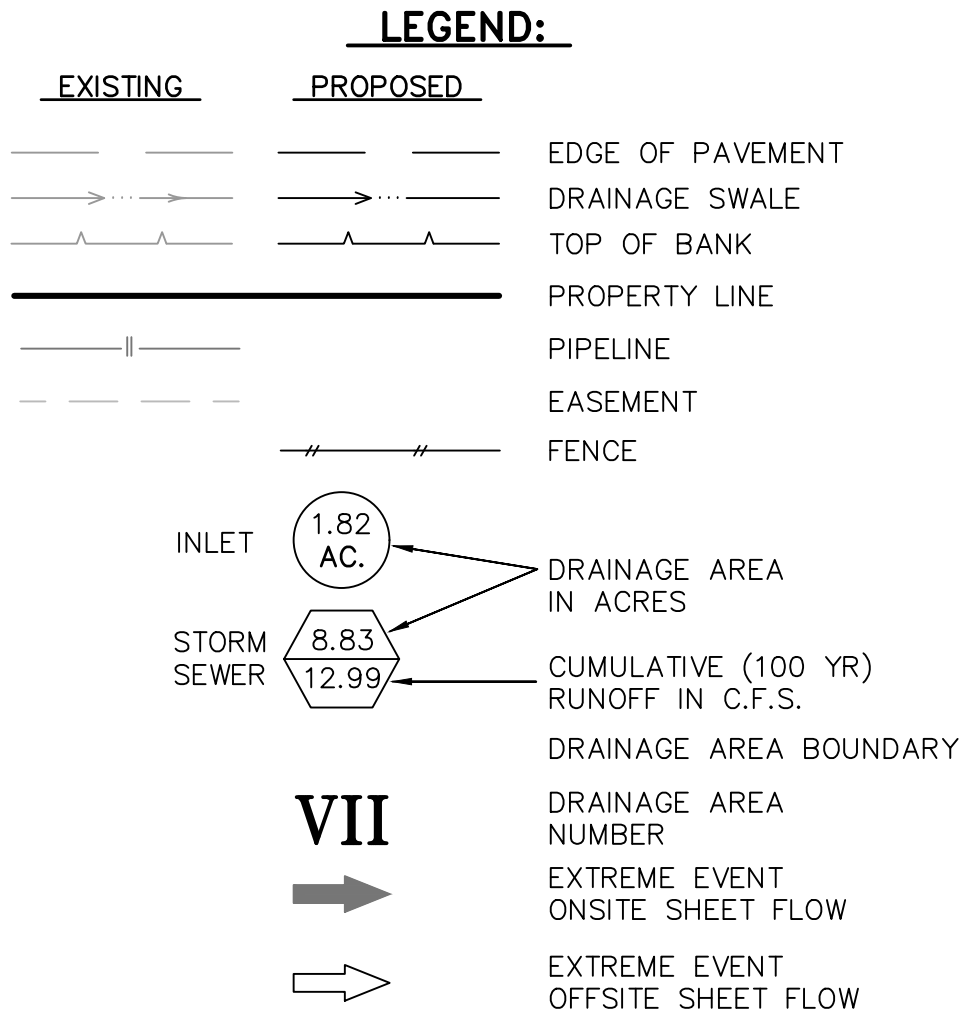
SITE PAVING & DIMENSION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE _____ HORIZ: 1"=20' VERT: _____

CATEGORY NO. **0-C-18** SHEET NO. ---OF XX

FOR CITY OF HOUSTON USE ONLY



NOTES:

- THE ATLAS 14 500-YEAR BASE FLOOD ELEVATION IS 37.50' PER FEMA FIS REPORT NO. 48201CV004C EFFECTIVE MAY 2, 2019.
- MINIMUM FINISHED FLOOR FOR SCOTT STREET NO. 1 LIFT STATION REHABILITATION IS 40.50'.

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A BRASS DISC STAMPED "RM 070215" LOCATED AT THE END OF YAUPON HOLLY LANE AT ITS INTERSECTION WITH EASTERN REDBUD LANE, ON TOP OF A "B-B" INLET AT THE NORTHWEST CORNER OF THE INTERSECTION. ELEVATION = 64.76 FEET NAVD 88 (2001 ADJUSTMENT)

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NO.	DATE	REVISIONS
APP.		

INTERIM REVIEW
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Engineer: LAUREN J. MUDD, P.E.
P.E. Serial No.: 153971
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26 DGN BY: JK
JOB NO: 00050-0099-01 DWG BY: JLG

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
SITE DRAINAGE PLAN

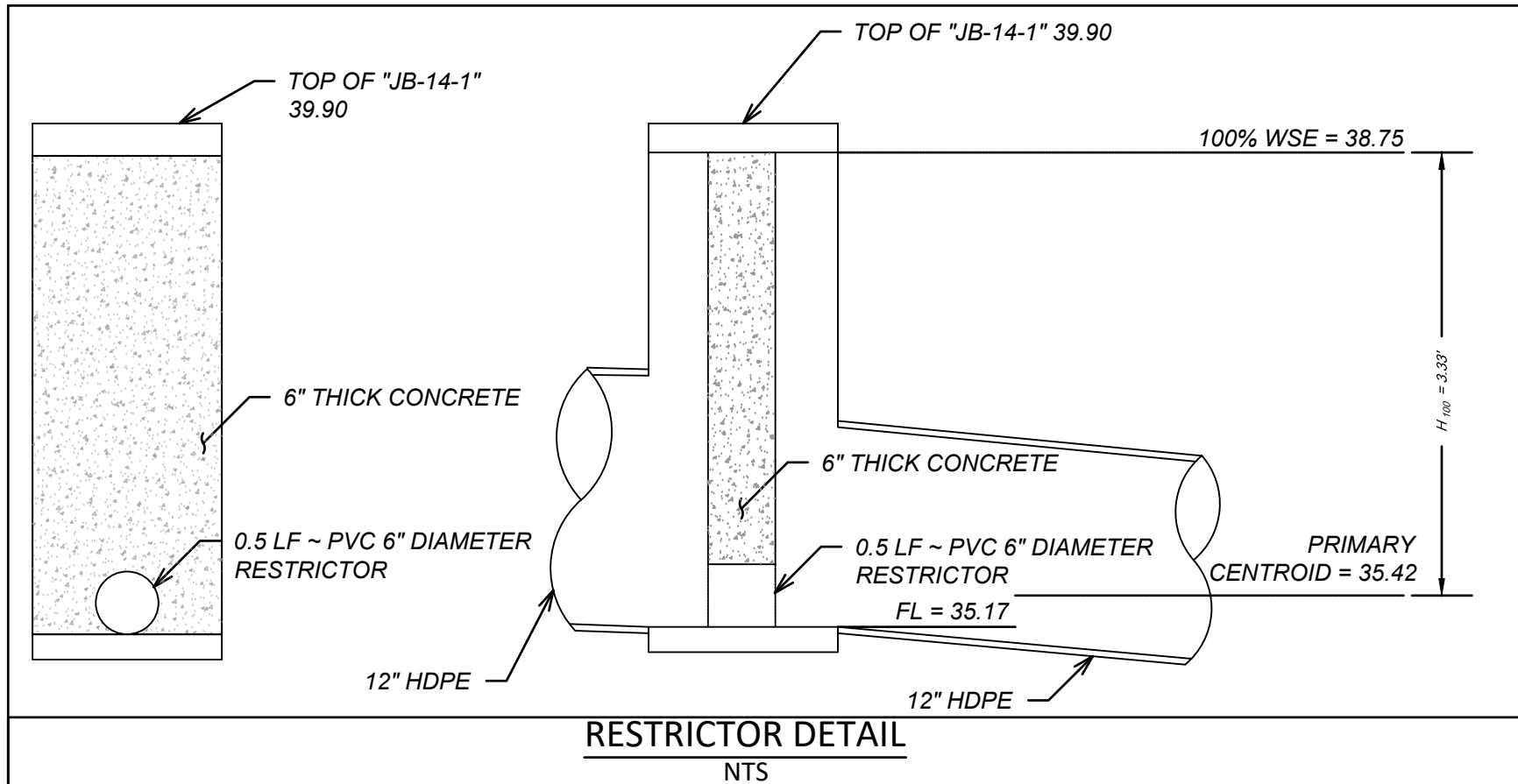
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: VERT:
CATEGORY NO. 0-C-19 SHEET NO. --- OF XX
FOR CITY OF HOUSTON USE ONLY

DETENTION SUMMARY					
Impervious Cover Calculation			Detention Calculation		
Area of Property [ac.]	Area of Existing Impervious Cover [ac.]	Area of Proposed Impervious Cover [ac.]	COH Detention Rate [ac-ft/ac]	Required Detention Storage [ac-ft]	Provided Detention Storage [ac-ft]
0.95	0.66	0.114	0.8	0.092 (4004 CF)	0.094 (4096 CF)

- NOTES:**
- THE EXISTING FENCE ON SITE WILL SERVE AS THE PROJECT BOUNDARY.
 - THE EXISTING IMPERVIOUS COVER IS TO BE REMOVED AND REPLACED FOR MAINTENANCE PURPOSES ONLY.
 - NO EXISTING IMPERVIOUS COVER IS TO BE REMOVED FOR THIS PROJECT.

						Intensity (in/hr)				2 YR	100 YR															2 YR								100 YEAR							
Manhole From	Manhole To	Contributing Area (Acres)	Total Area (Acres)	Runoff Coefficient C	Sum of C*A	2 yr		100 yr		2 yr	100 yr		Time of Concentration (mins)	Pipe Length (ft)	Pipe Diameter or Rise (in) ORIGINAL	Box Span (in)	Slope (%)	Mannings "n"	Design Capacity (cfs)	Design Velocity (ft/sec)	Fall (feet)	Manhole Drop (feet)	Rowline Elevation Upstream (feet)	Rowline Elevation Downstream (feet)	Actual Velocity (ft/sec)	Hydraulic Gradient (%)	Change in Head (feet)	Elevation of Hyd. Grad. Upstream (feet)	Elevation of Hyd. Grad. Downstream (feet)	Top of Gate	HGL ABOVE/ BELOW TOP OF BANK	Actual Velocity (ft/sec)	Hydraulic Gradient (%)	Change in Head (feet)	Elevation of Hyd. Grad. Upstream (feet)	Elevation of Hyd. Grad. Downstream (feet)	Top of Gate	HGL ABOVE/ BELOW TOP OF BANK			
						b	48.35	b	60.66																																
						d	9.07	d	4.44																																
e	0.7244	e	0.5797																																						
Scott St. Lift Station No. 1 Rehab																																									
"A"-Inlet 1	Underground Detention	0.38	0.38	0.80	0.3		3.88		8.81	1.18	2.68		23.43	53	12		0.38	0.012	2.38	3.03	0.20		35.45	35.25	1.50	0.09	0.05	36.45	36.25	39.80	-3.35	3.41	0.48	0.26	37.80	37.54	39.80	-2.00			
"A"-Inlet 3*	Underground Detention	0.12	0.12	0.23	0.0		4.02		9.11	0.11	0.25		21.88	69	12		0.38	0.012	2.38	3.03	0.26		37.50	37.24	0.14	0.00	0.00	38.50	38.24	39.50	-1.00	0.32	0.00	0.00	38.50	37.54	39.50	-1.00			
"A"-Inlet 4*	Underground Detention	0.07	0.07	0.37	0.0		4.08		9.24	0.11	0.24		21.25	32	12		0.38	0.012	2.38	3.03	0.12		37.60	37.48	0.13	0.00	0.00	38.60	38.48	39.60	-1.00	0.30	0.00	0.00	38.60	37.54	39.60	-1.00			
Underground Detention	JB-14-1 w/ Restrictor	0.33	0.83	0.69	0.6		3.86		8.76	2.21	5.02		23.72	22	12		0.38	0.012	2.38	3.03	0.08		35.25	35.17	2.82	0.33	0.07	36.25	36.17	39.75	-3.50	6.40	1.69	0.37	37.54	37.17	39.75	-2.21			
													0.12																												
*: Indicates calculated "c" value from impervious area ratio using equation outlined in COHIDM 9.2.01.B3.(2)																																									



Scott Street No. 1 Lift Station Rehab
Service Area 0.95 ac

Low Level

25% Basin Depth Elevation = 36.13 ft

H25% = 36.13 - 35.42 = 0.70 ft

Q25%(allowable) Primary = (Per HCED UPIN No. 19101MF14P01) = 0.48 cfs

$D_{(req.) \text{ Primary}} = \frac{Q_{25}^{0.5}}{(2.25h^{0.25})} = 0.33 \text{ ft} = 4.01 \text{ in}$

Use minimum required 6" Diameter Primary Restrictor.

Q25% = CA(2G)^0.5(H25)^0.5 = (0.8)(0.2)(2*32.2)^0.5(0.7)^0.5 = 1.06 cfs

High Level

H100%(Primary) = 38.75 - 35.42 = 3.33 ft

Q100%(allowable) = 0.95 (2.0 cfs/Ac) = 1.90 cfs

Q100%(P) = CA(2G)^0.5(H100%(Primary))^0.5 = (0.8)(0.2)(2*32.2)^0.5(3.33)^0.5 = 2.30 cfs

Q100%(Secondary Allowable) = Q100%(Allowable) - Q100%(Primary) = 1.9 - 2.3 = -0.40 cfs

Secondary Restrictor Not Required

Q(total) = 2.30 cfs

RESTRICTOR NOTE:
THE SERVICE AREA USED FOR SIZING
THE PROPOSED RESTRICTOR IS BASED
ON THE AREA LOCATED WITHIN THE SITE
FENCE LIMITS.

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NO. DATE REVISIONS APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: LAUREN J. MUDD, P.E.
P.E. Serial No.: 153971
Date: JANUARY 2026

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
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CITY OF HOUSTON
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DATE: JANUARY 26 DGN BY: JK
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NOTE: CITY SIGNATURES VALID FOR ONE
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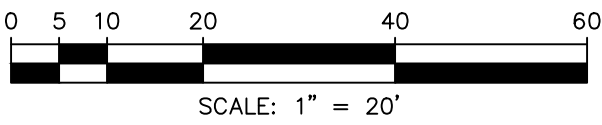
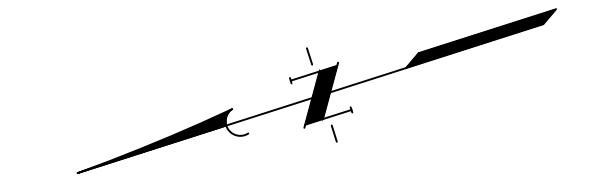
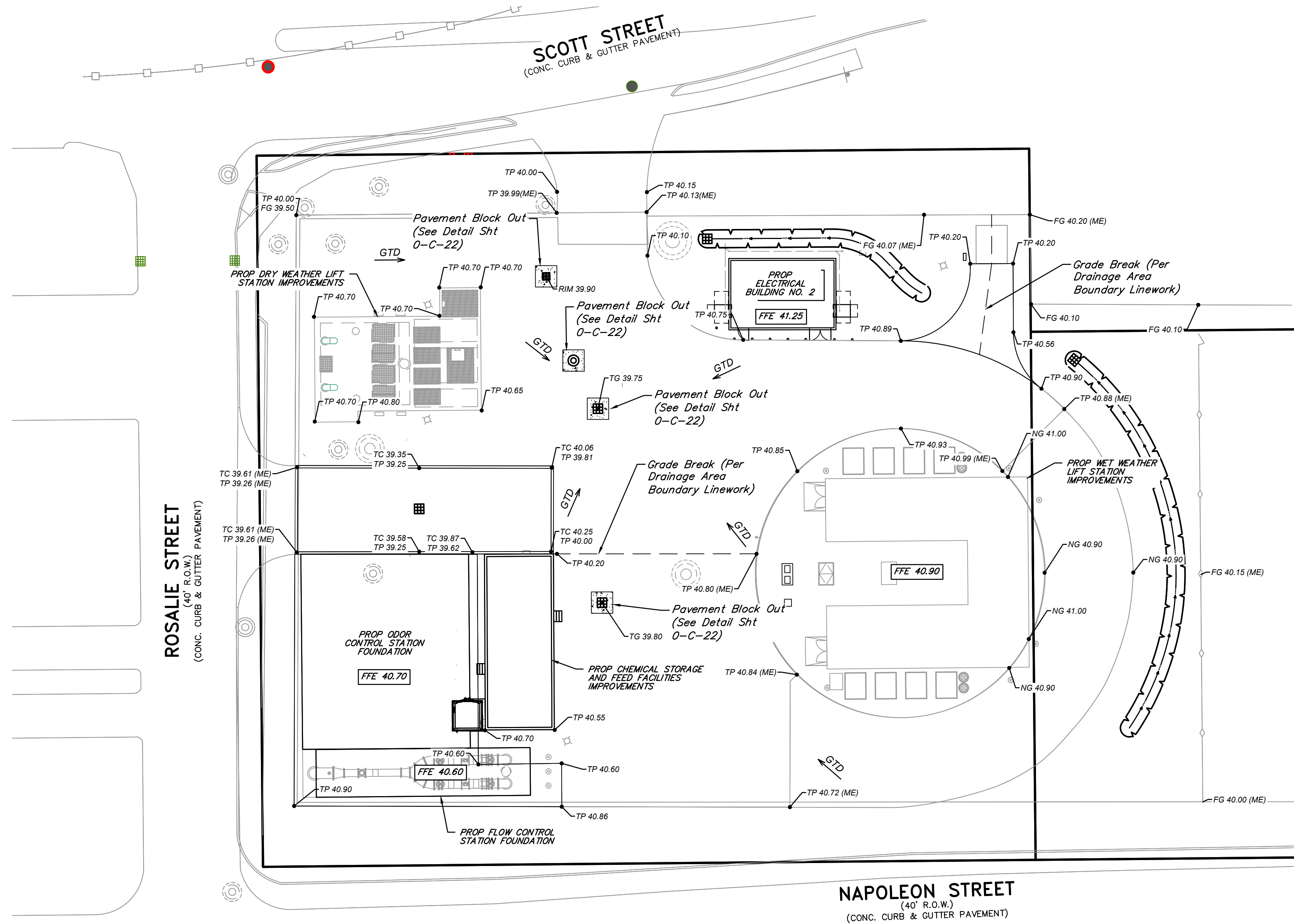
SCOTT STREET No. 1
LIFT STATION REHABILITATION

SITE DRAINAGE CALCULATIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: VERT:
CATEGORY NO. 0-C-20 SHEET NO. --- OF XX
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

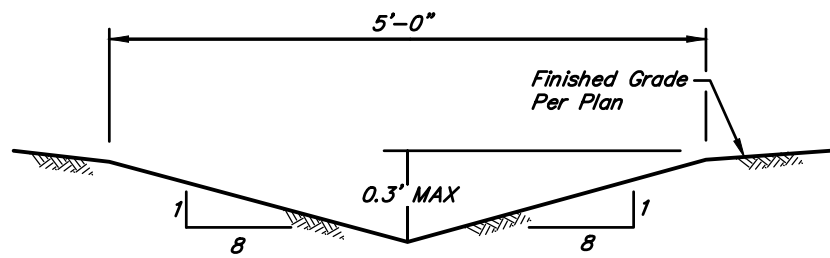


LEGEND

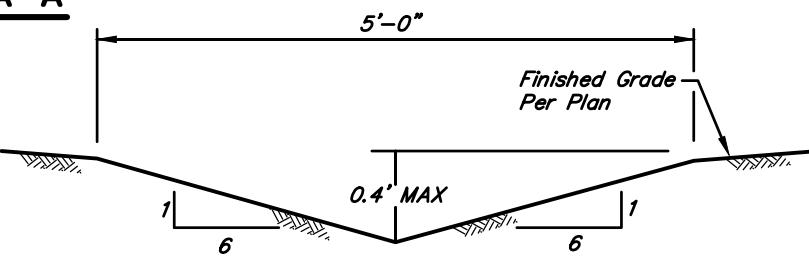
	PROPOSED TOP OF BANK
	STORM SEWER w/ "E" INLET
	SWALE CENTERLINE
	MATCH EXISTING
	PROPOSED TOP OF PAVEMENT ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED FINISHED GRADE ELEVATION
	PROPOSED FLOWLINE ELEVATION
	EXISTING NATURAL GROUND ELEVATION
	PROPOSED FINISHED FLOOR ELEVATION
	PROPERTY LINE
	PROPOSED FENCE
	GRADE TO DRAIN

NOTES:

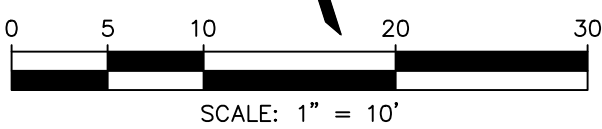
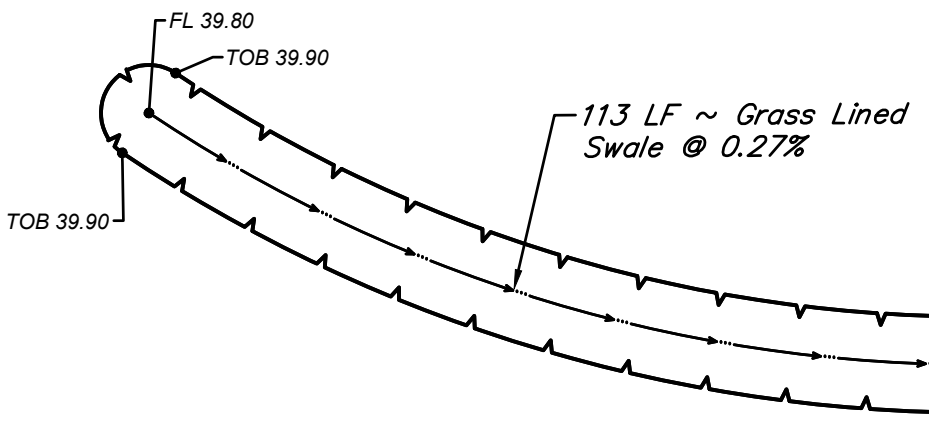
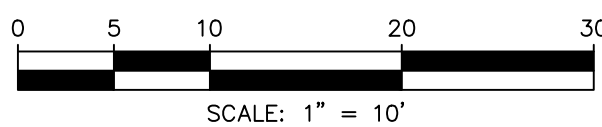
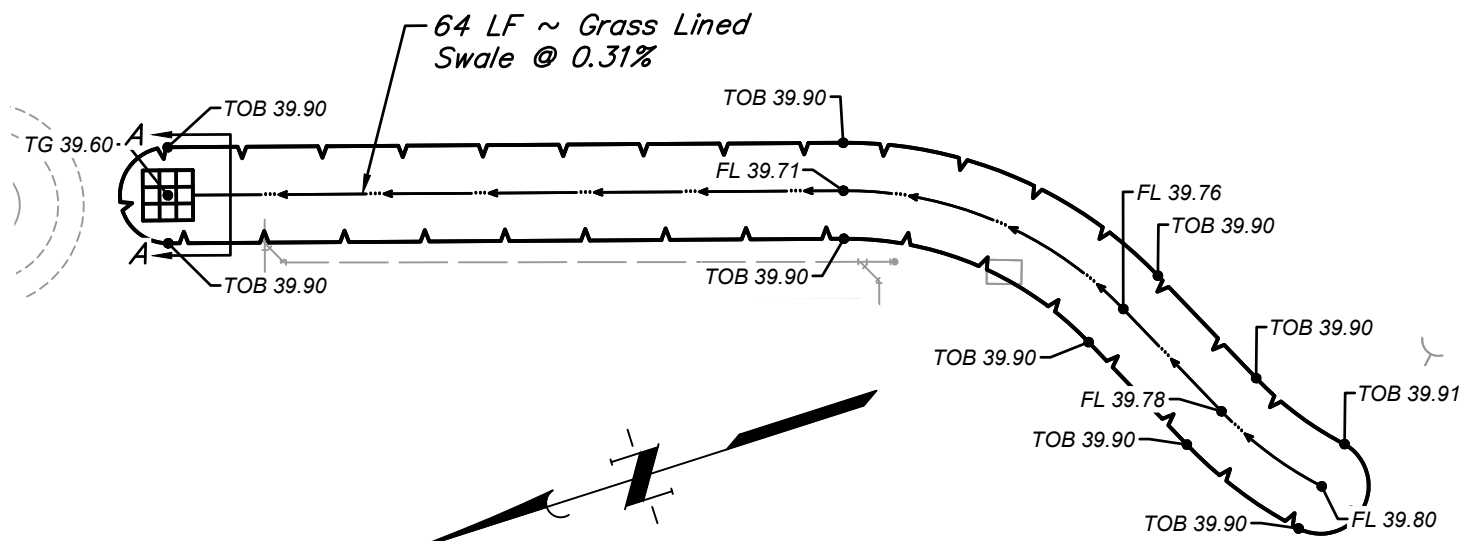
1. THE ATLAS 14 500-YEAR BASE FLOOD ELEVATION IS 37.50' PER FEMA FIS REPORT NO. 48201CV004C EFFECTIVE MAY 2, 2019.
2. MINIMUM FINISHED FLOOR FOR SCOTT STREET NO. 1 LIFT STATION REHABILITATION IS 40.50'.



SWALE CROSS SECTION A-A
NOT TO SCALE



SWALE CROSS SECTION B-B
NOT TO SCALE



BENCH MARK

A BRASS DISC STAMPED "RM 070215" LOCATED AT THE END OF YAUPON HOLLY LANE AT ITS INTERSECTION WITH EASTERN REDBUD LANE, ON TOP OF A "B-B" INLET AT THE NORTHWEST CORNER OF THE INTERSECTION. ELEVATION = 64.76 FEET NAVD 88 (2001 ADJUSTMENT)

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NO.	DATE	REVISIONS	APP.

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Engineer: LAUREN J. MUDD, P.E.

P.E. Serial No.: 153971

Date: JANUARY 2026



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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26

JOB NO: 00050-0099-01

DGN BY: JK

DWG BY: JLG

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

SITE GRADING PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE

HORIZ:

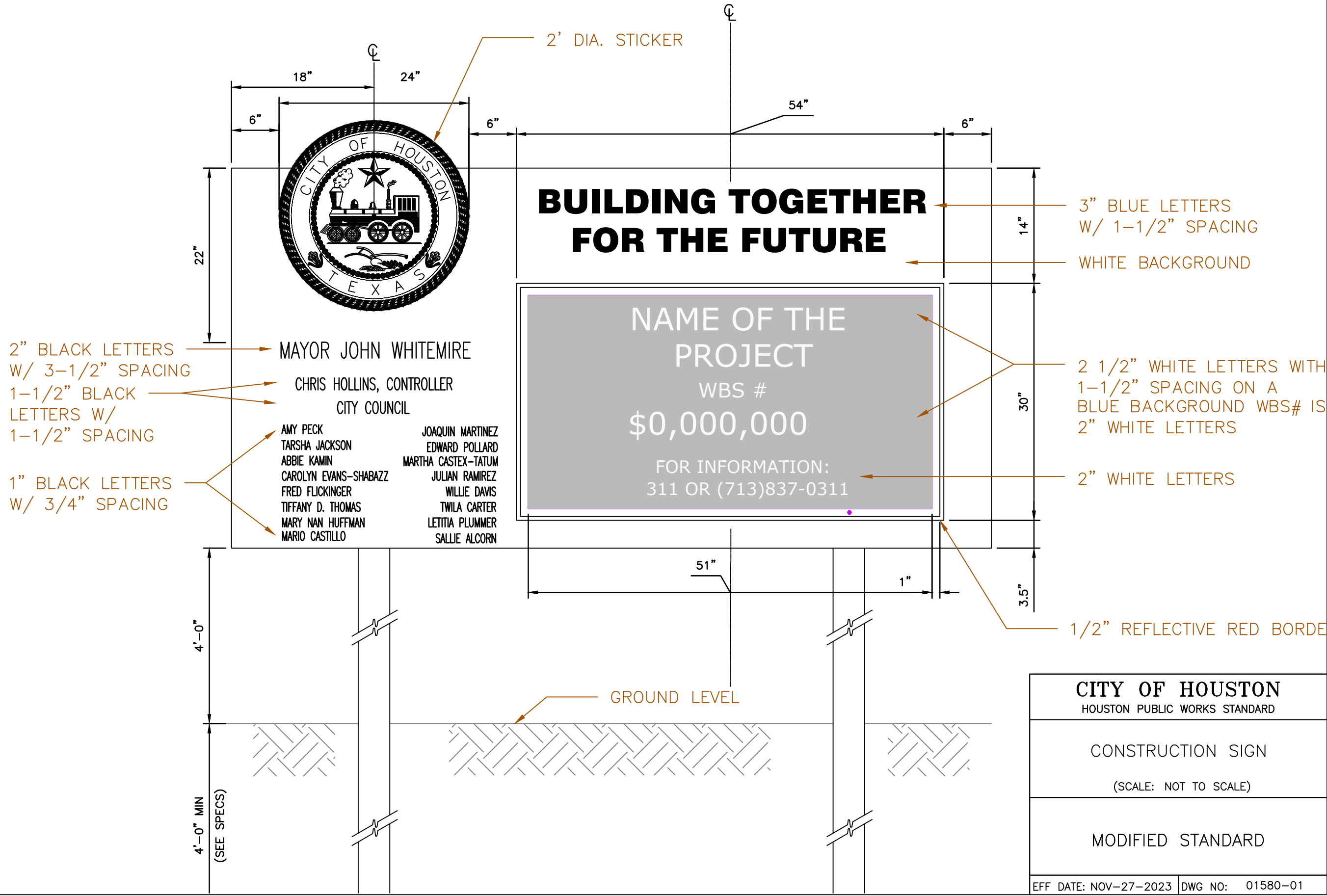
VERT:

CATEGORY NO. 0-C-21

SHEET NO. --- OF XX

FOR CITY OF HOUSTON USE ONLY

REMARK: THE USE OF THIS STANDARD IS LIMITED TO THE CITY OF HOUSTON. ANY OTHER AGENCIES OR INDIVIDUALS WHOSE PROJECTS ARE NOT APPROVED BY THE CITY OF HOUSTON MAY NOT USE THIS STANDARD. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR ANY PROJECTS NOT APPROVED BY THE CITY OF HOUSTON.



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026

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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

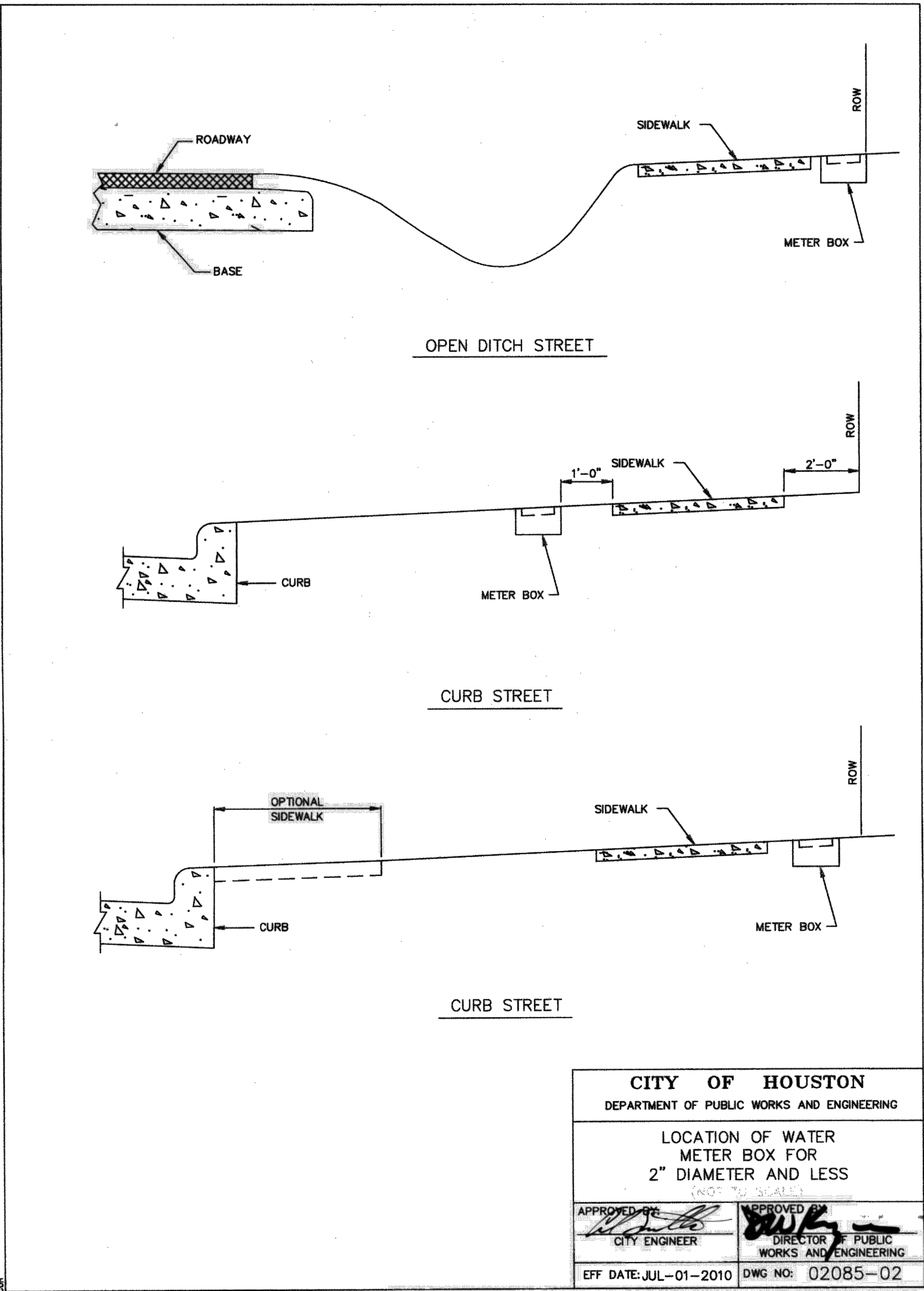
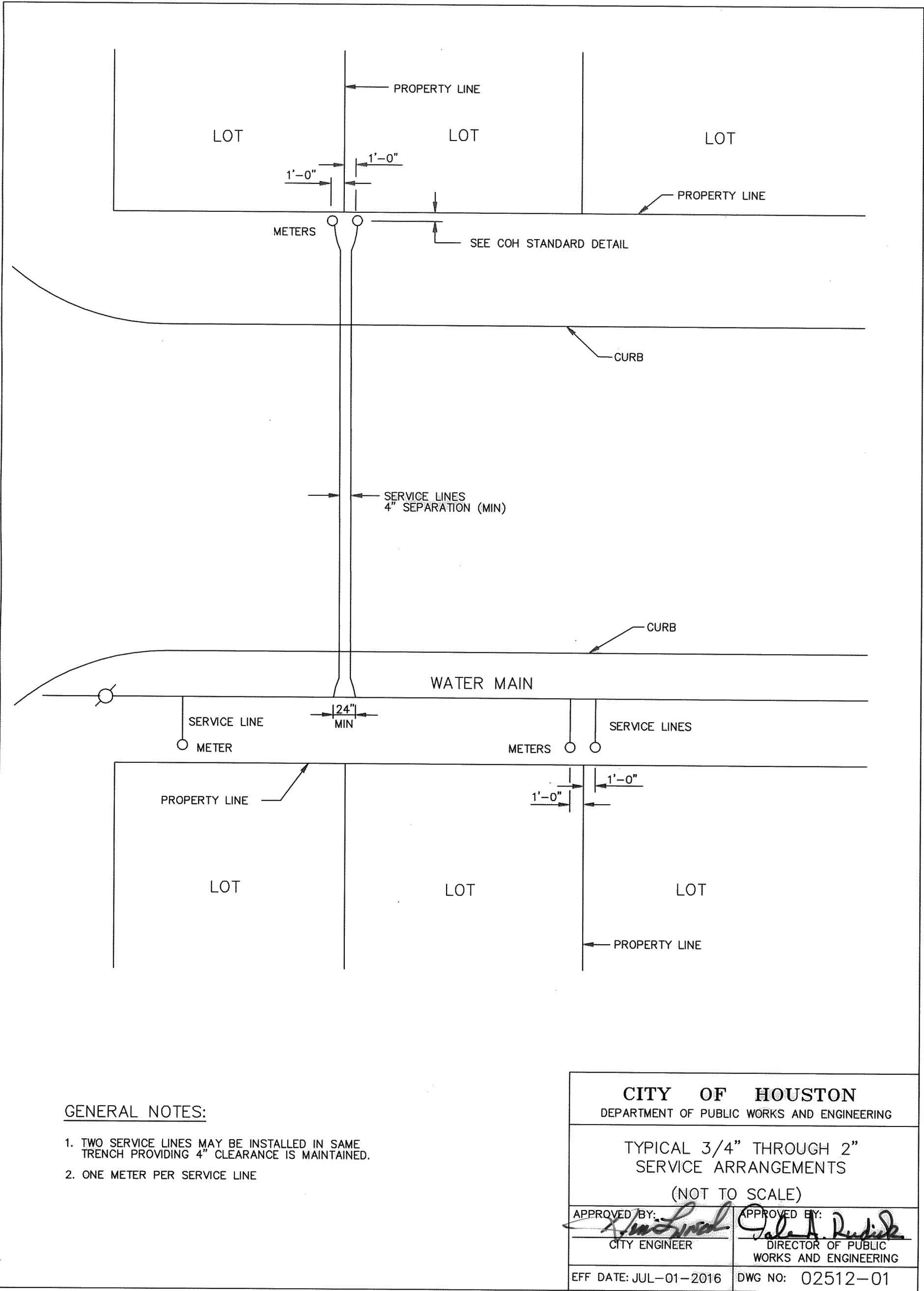
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 1 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NOT TO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. **0-C-22** SHEET NO. 24 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS	APP.

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Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
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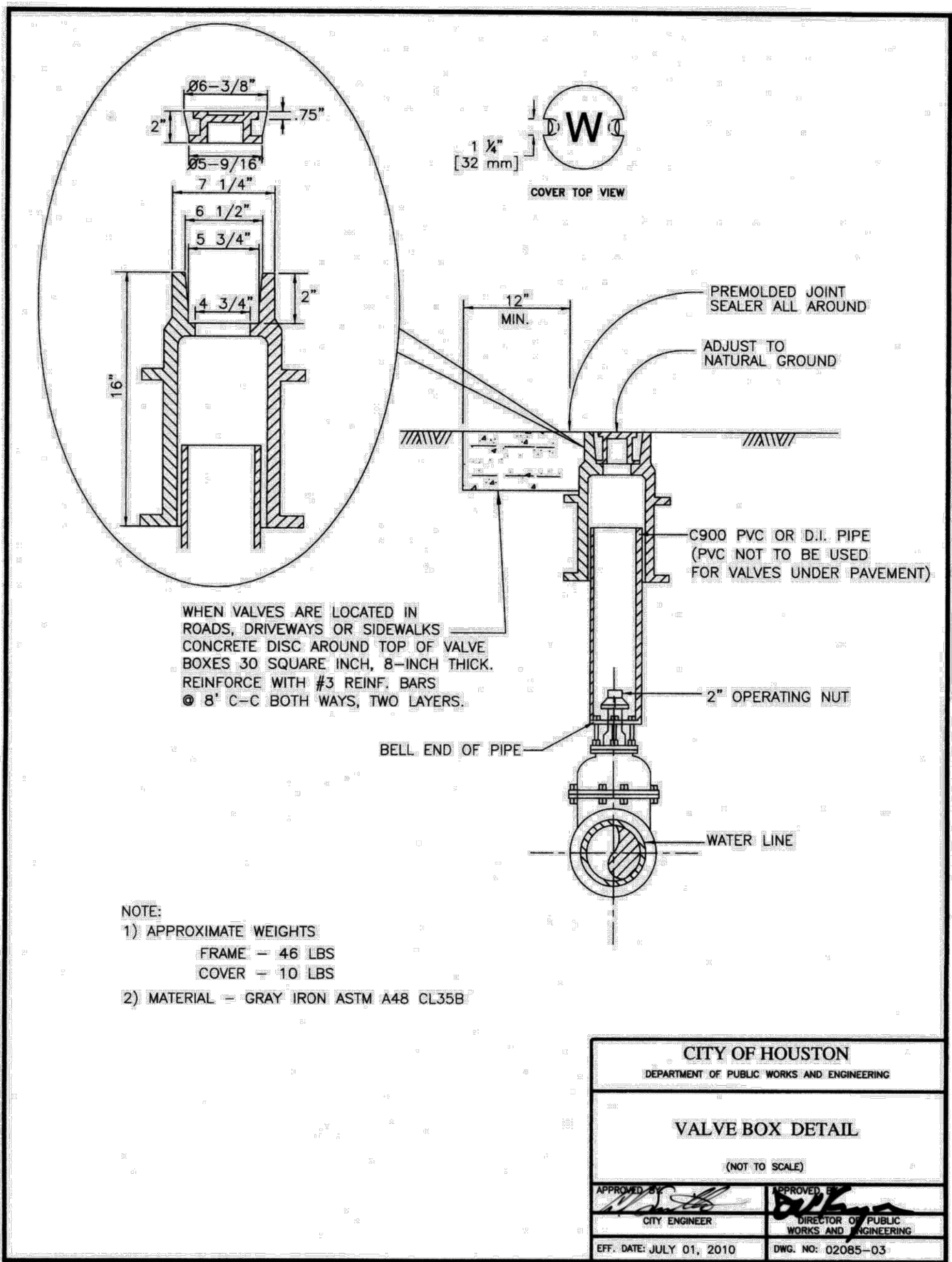
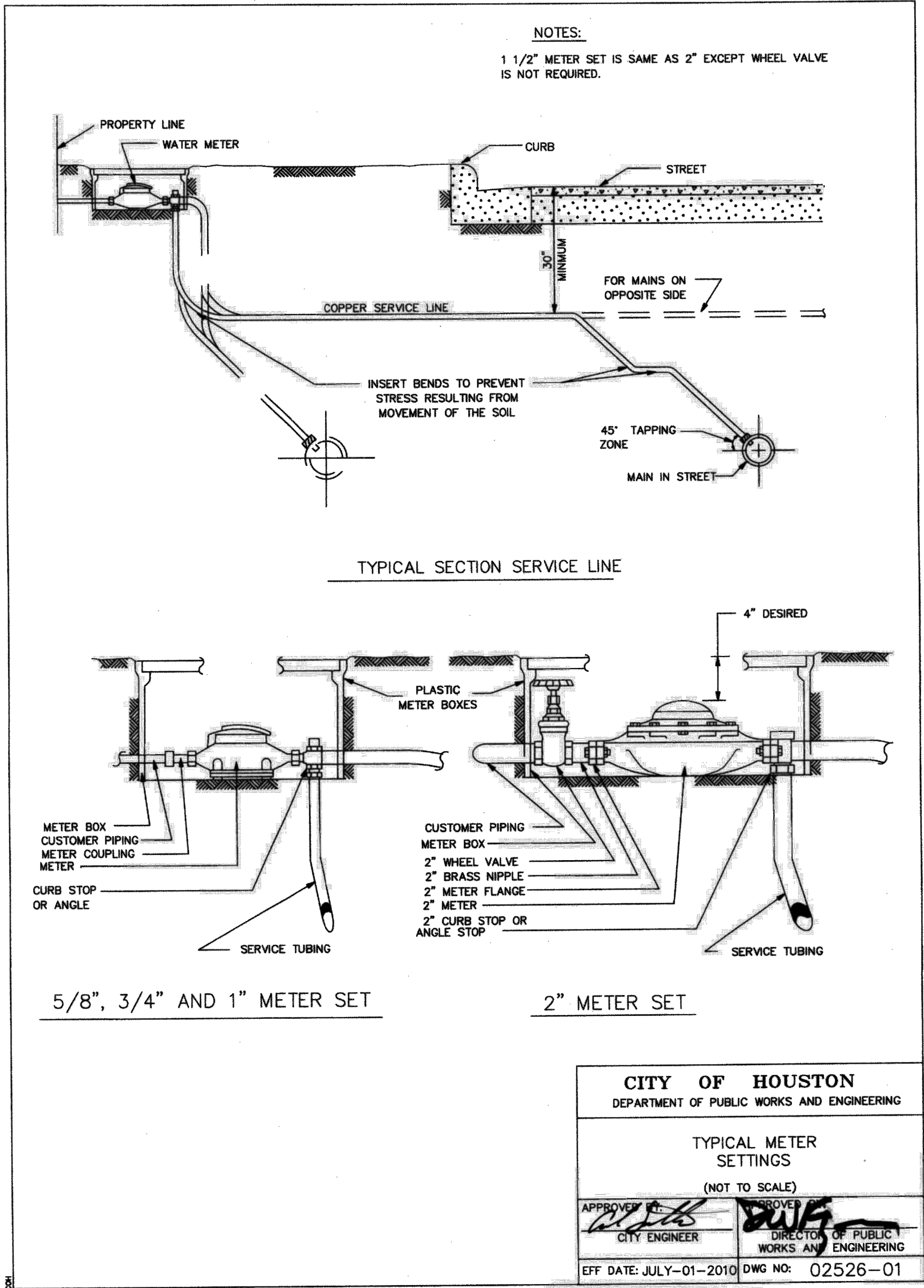
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 2 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-23 SHEET NO. 25 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS
		APP.

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P.E. Serial No.: 144401
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HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 3 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-24 SHEET NO. 26 OF XXX
FOR CITY OF HOUSTON USE ONLY

PIPE TAPPING SCHEDULE				
WATER MAIN TYPE AND DIAMETER	SERVICE SIZE			
	3/4"	1"	1 1/2"	2"
4" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
4" ASBESTOS (EXISTING) CEMENT	WBSS	WBSS	DSS, WBSS	DSS, WBSS
4" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" ASBESTOS (EXISTING) CEMENT	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" ASBESTOS (EXISTING) CEMENT	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
16" AND UP CAST IRON OR DUCTILE IRON	DWBSS	DWBSS	DWBSS	DWBSS
16" AND UP ASBESTOS (EXISTING) CEMENT	DWBSS	DWBSS	DWBSS	DWBSS
16" AND UP PVC (AWWA C900)	DWBSS	DWBSS	DWBSS	DWBSS

DSS - DUAL STRAP SADDLES
WBSS - WIDE BAND STRAP SADDLES
DWBSS - DUAL WIDE BAND STRAP SADDLES

SERVICE TAPS TO BE
MADE IN THIS ZONE
EXCEPT FOR PVC FASTTAP

BLOW-OFF & CHLORINATION
TAPS ARE MADE IN VERTICAL
POSITION

WIDE BAND SINGLE SADDLE
OR DUAL SADDLES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

SERVICE TAPS
(NOT TO SCALE)

APPROVED BY
CITY ENGINEER

APPROVED BY
DIRECTOR OF PUBLIC
WORKS AND ENGINEERING

EFF DATE: JUL-01-2010

DWG NO: 02512-02

GENERAL NOTES:

1. INSULATE REDUCED PRESSURE BACKFLOW PREVENTER TO AVOID FREEZING.

2. REDUCED PRESSURE BACKFLOW PREVENTER'S DISCHARGE OPENING IS TO BE A MINIMUM OF 12 INCHES ABOVE GROUND ELEVATION OR 100 YEAR FLOOD ELEVATION WHICHEVER IS GREATER.

90° BEND

LINE VALVES

(RPBP)

REMOVABLE HANDLE (TYP)

90° BEND

FLOW

TOP OF GROUND ELEVATION

D I OR STEEL PIPE

90° BEND

CONCRETE BLOCKING AND R P B P SUPPORT

90° BEND

WATER SUPPLY MAIN

6" MAXIMUM TO WATER METER

PIPE SUPPORT

ON SITE WATER MAIN

STEEL OPTION:

1 - 6" BELL FLANGE ADAPTER

1 - 6" SLIP-ON FLANGE

1 - 6"x45° STEEL BEND

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

REDUCED PRESSURE BACKFLOW - PREVENTER (R P B P)
(NOT TO SCALE)

APPROVED BY
CITY ENGINEER

APPROVED BY
DIRECTOR OF PUBLIC
WORKS AND ENGINEERING

EFF DATE: JULY-01-2010

DWG NO: 02523-01

NO.	DATE	REVISIONS	APP.


INTERIM REVIEW

Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON

HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1

LIFT STATION REHABILITATION

CIVIL DETAILS

SHEET 4 OF 16

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX

CATEGORY NO. 0-C-25 SHEET NO. 27 OF XXX

FOR CITY OF HOUSTON USE ONLY

K:\00050\00050-0099-01 Scott St. No. 1 Lift Station Rehabilitation - Phase II Design\2 Design Phase\CAD\MISC0-2.dwg, Jan 19, 2026 - 1:20pm, JMM

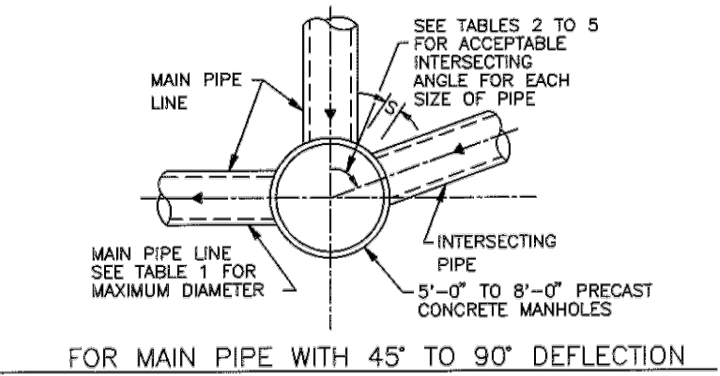
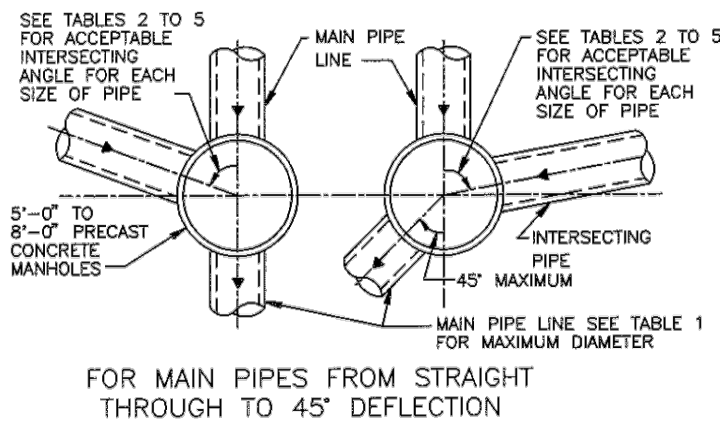
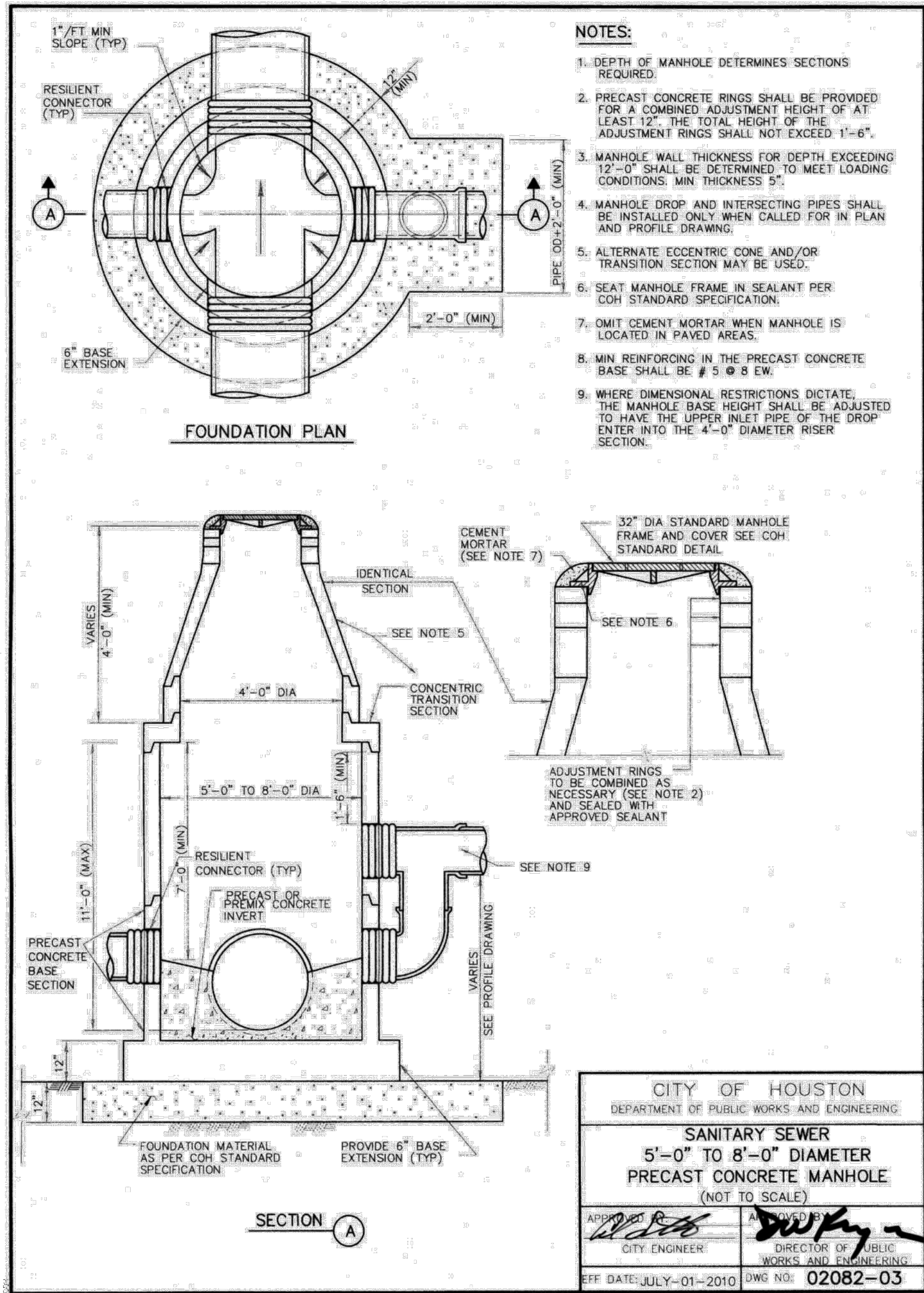


TABLE 1
MAXIMUM MAIN PIPE DIAMETER (D) IN INCHES

MANHOLE DIAMETER (FT)	STRAIGHT THROUGH TO DEFLECTION	WITH 90° DEFLECTION	TABLE TO BE USED
5	36	27	2
6	42	33	3
7	48	36	4
8	60	42	5

TABLE 2
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 5'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"
8	49	50	54	58	61	66	69	73	77	82	86
10		53	57	61	64	68	71	76	79	84	88
12			61	65	68	72	75	80	83	88	-
15				68	71	75	79	83	87	-	-
18					75	79	82	87	90	-	-
21						83	86	90	-	-	-
24							90	-	-	-	-
27								-	-	-	-
30									-	-	-
33										-	-
36											-

NOTES ON USE OF STANDARD DETAIL 02082-03

TABLE 3
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 6'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"
8	40	42	45	49	51	54	57	61	63	67	70	78
10		44	47	50	53	56	59	62	65	69	72	79
12			50	54	56	60	62	66	68	72	75	83
15				57	59	62	65	69	71	75	78	85
18					62	65	68	71	74	78	81	88
21						68	71	74	77	81	84	-
24							74	77	80	84	87	-
27								83	85	89	-	-
30									-	-	-	-
33										-	-	-
36											-	-
42												-

TABLE 4
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 7'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"
8	35	36	39	42	44	47	49	52	54	57	59	65	71
10		38	40	43	45	48	50	53	55	59	61	67	73
12			43	46	48	51	53	56	58	61	64	70	76
15				48	50	53	55	58	61	64	66	72	78
18					58	58	60	63	66	69	71	77	83
21						58	60	63	66	69	71	77	83
24							63	66	68	71	74	79	86
27								70	72	76	78	84	90
30									78	81	83	89	-
33										86	88	-	-
36											-	-	-
42												-	-
48													-

TABLE 5
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 8'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"	54"	60"
8	30	32	34	36	38	41	43	45	47	50	52	56	61	67	74
10		33	35	38	40	42	44	46	48	51	53	58	63	68	77
12			38	40	42	44	46	49	51	53	56	58	62	67	73
15				42	44	47	48	51	53	56	58	62	67	73	81
18					46	49	51	53	55	58	60	64	70	75	83
21						51	53	55	57	60	62	67	72	77	85
24							55	57	59	62	64	69	74	79	89
27								61	63	66	68	73	78	83	-
30									67	70	72	77	82	87	-
33										74	76	81	86	-	-
36											81	86	-	-	-
42												-	-	-	-
48													-	-	-
60														-	-

• NOT APPLICABLE (INTERSECTING PIPE GREATER THAN MAIN PIPE)

NOTES TO SPECIFIER:

1. "-" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.
2. TABLES 2 TO 5 ARE BASED ON A MIN SEPARATION DISTANCE OF 15.0" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.
3. PIPE WALL THICKNESS USED IN TABLES 2 TO 5 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINNER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLES ALLOW.
4. LIMITATIONS TO BASE HEIGHT ARE BASED ON RESISTING BUOYANT UPLIFT FORCES BASED ON WATER AT GROUND SURFACE AND A SAFETY FACTOR OF 1.20.
5. A SPECIAL DESIGN IS REQUIRED IF MANHOLE ID IS GREATER THAN 8 FT.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

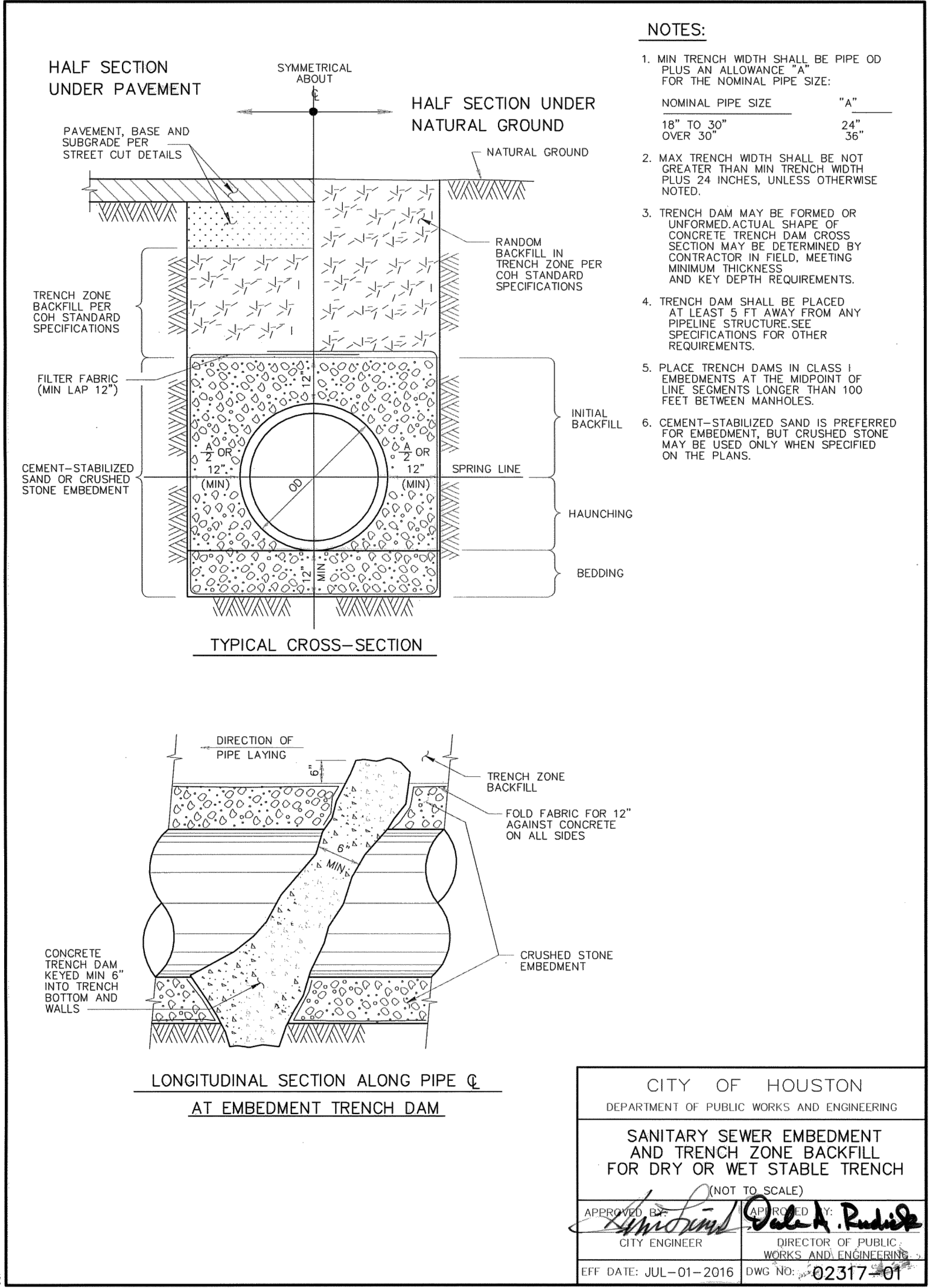
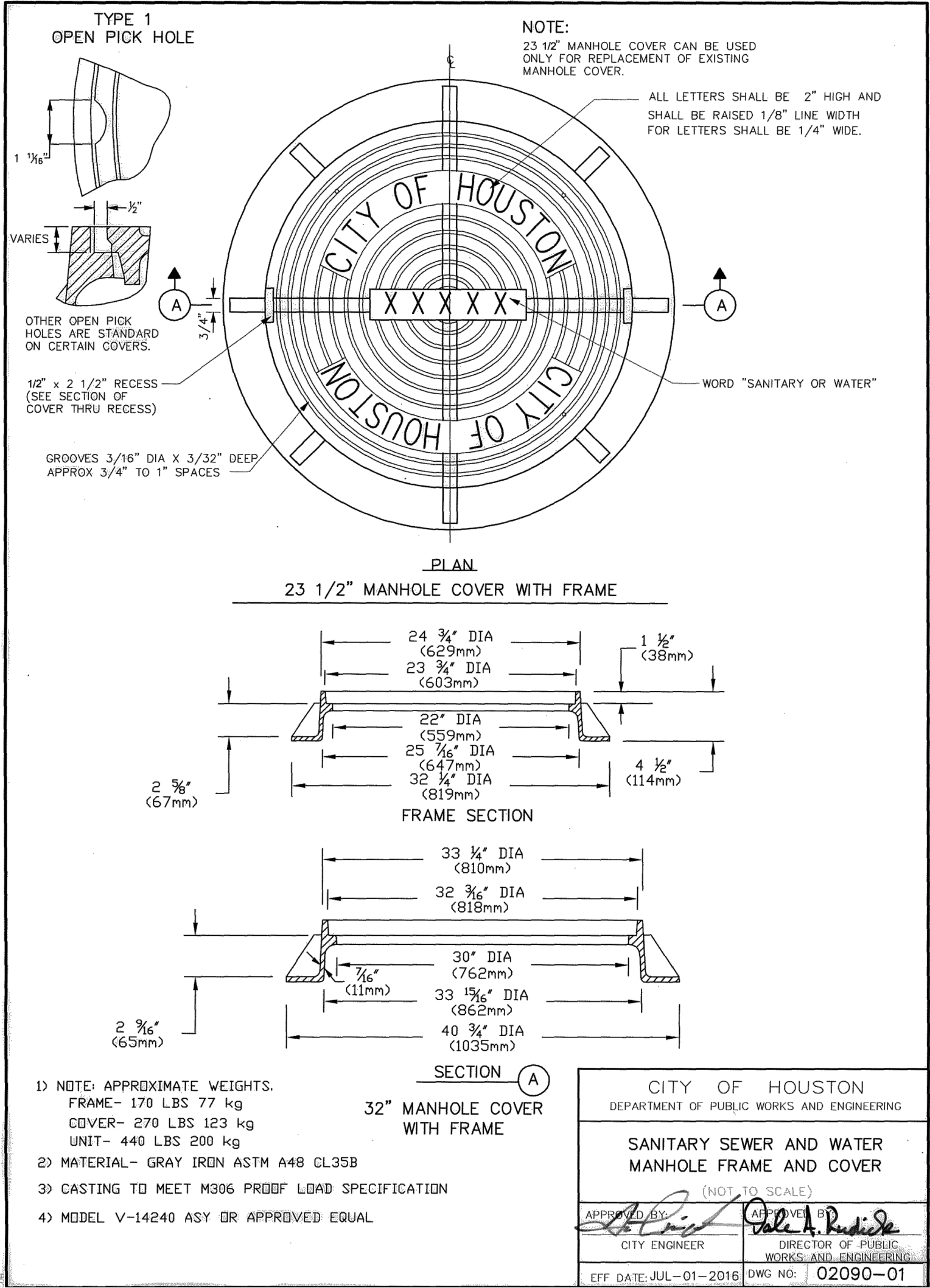
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 5 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-26 SHEET NO. 28 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



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CITY OF HOUSTON
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DATE: JANUARY 2026 DGN BY: MBMITCHELL
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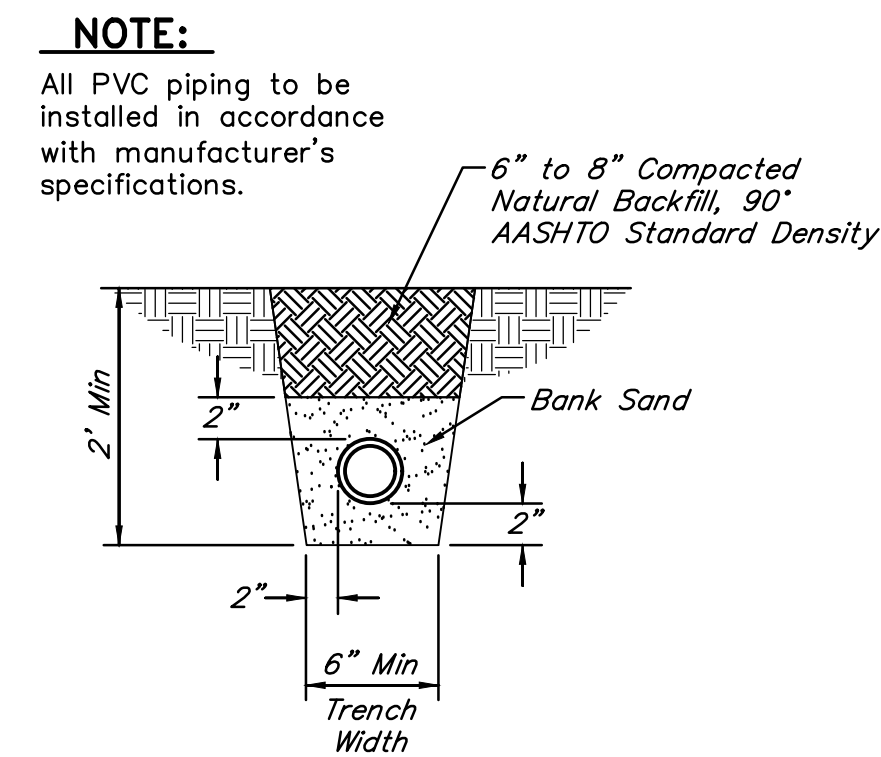
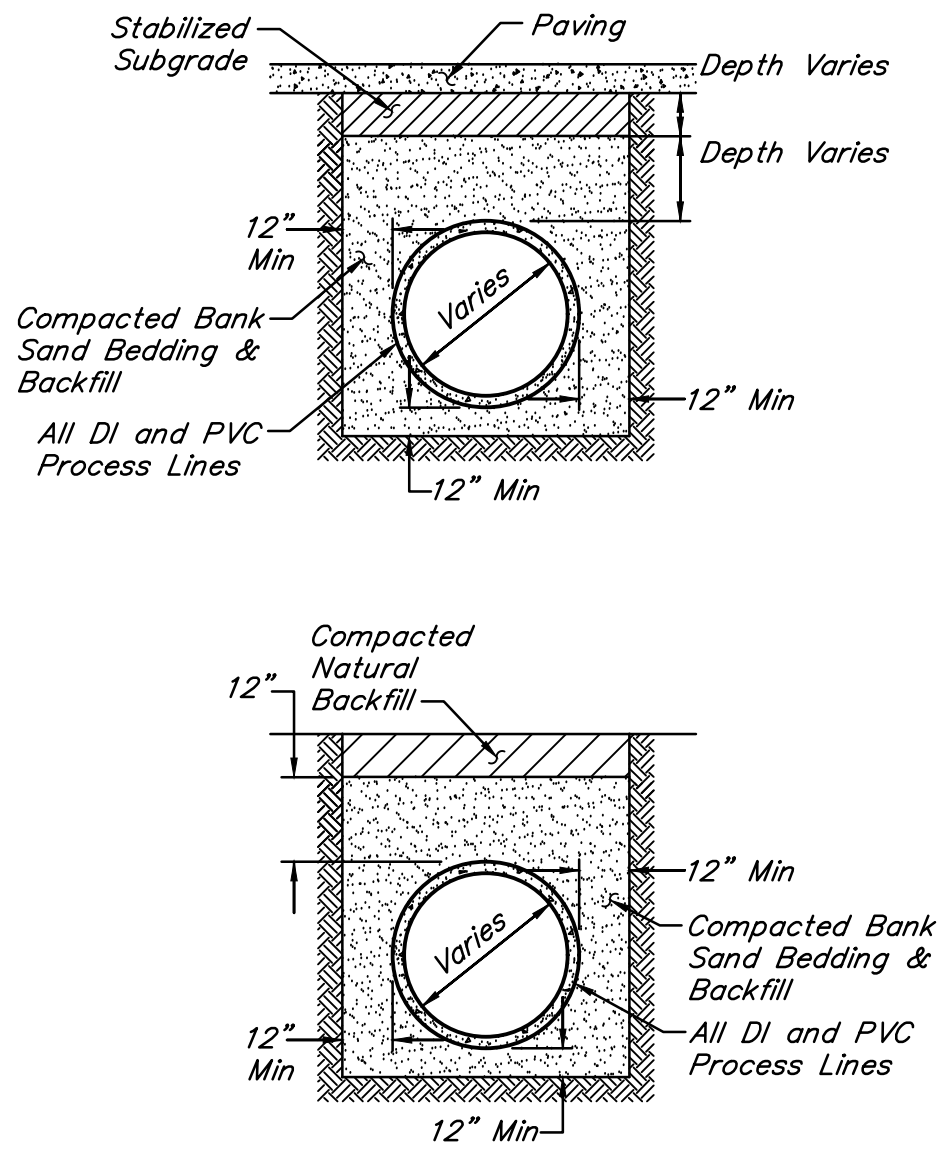
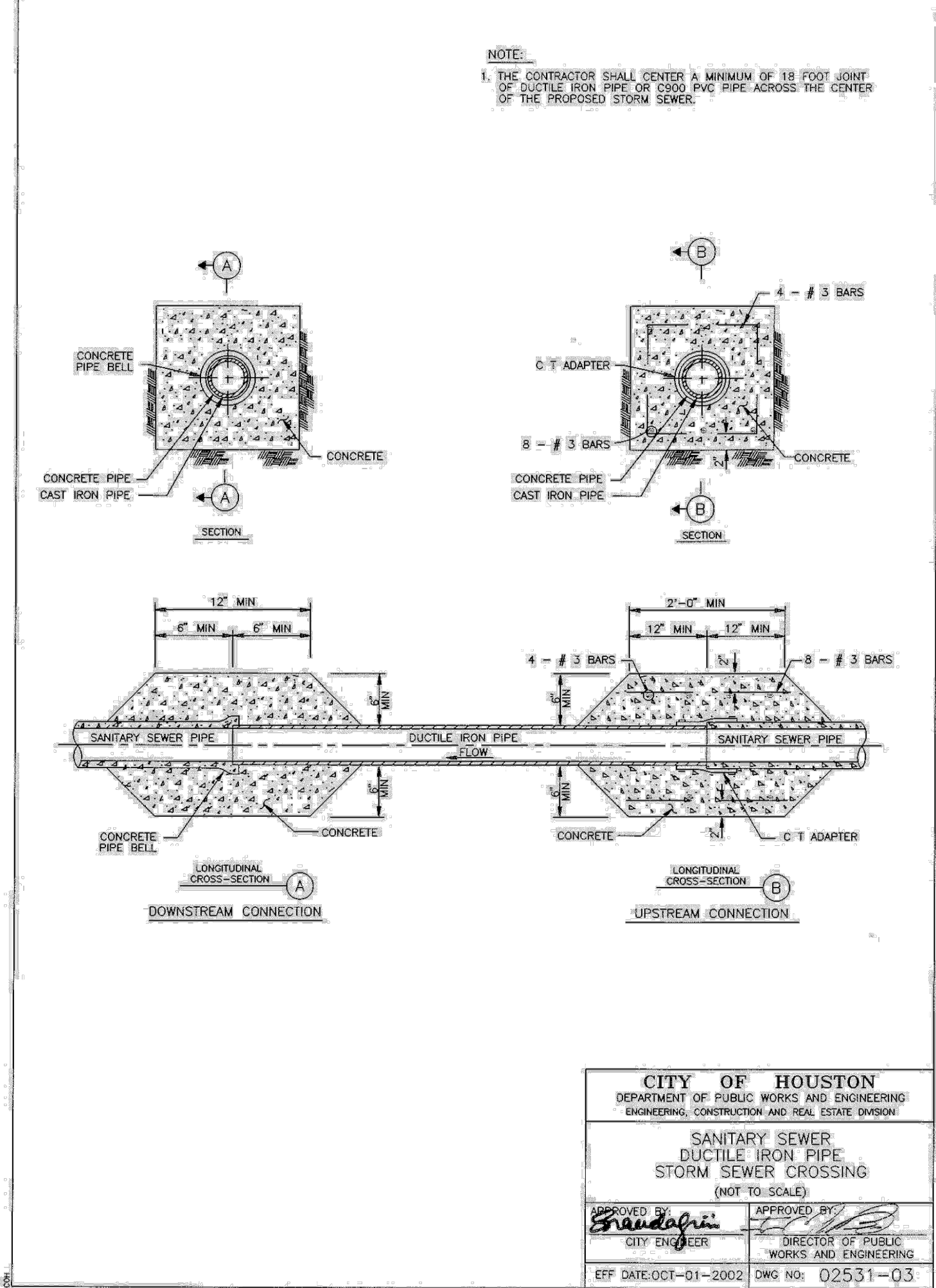
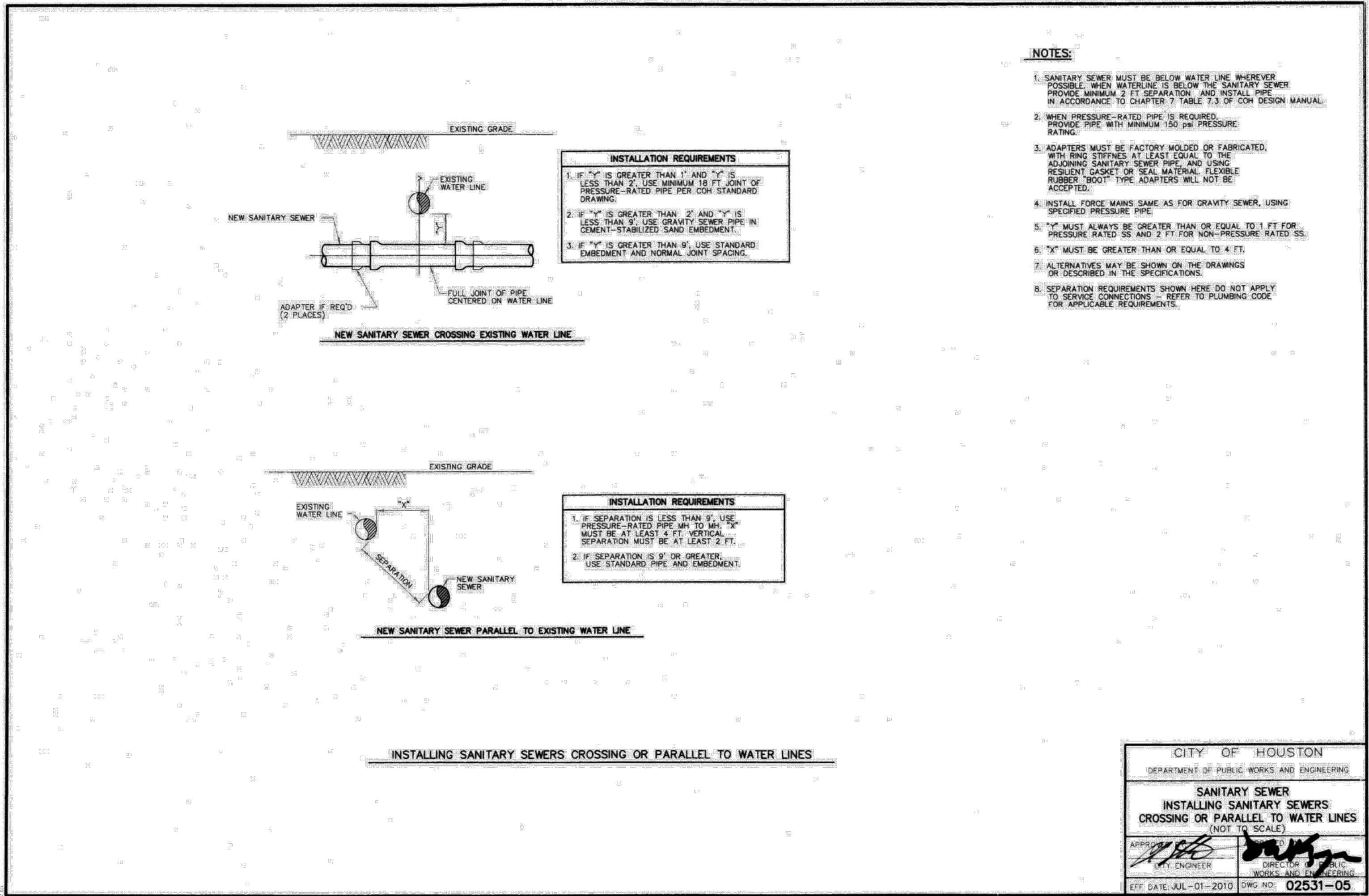
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

**SCOTT STREET No. 1
LIFT STATION REHABILITATION**

**CIVIL DETAILS
SHEET 6 OF 16**

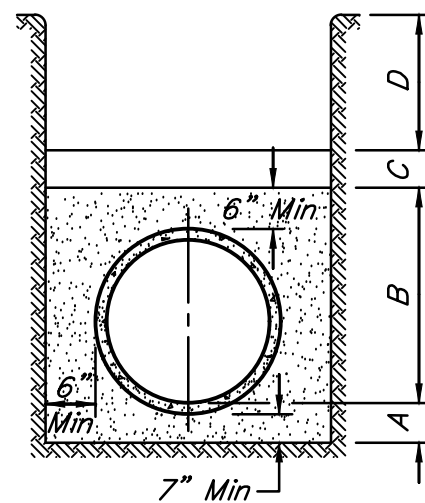
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-27 SHEET NO. 26 OF XXX
FOR CITY OF HOUSTON USE ONLY



**BEDDING FOR SMALL
DIAMETER (<3") PIPING DETAIL**

NOT TO SCALE

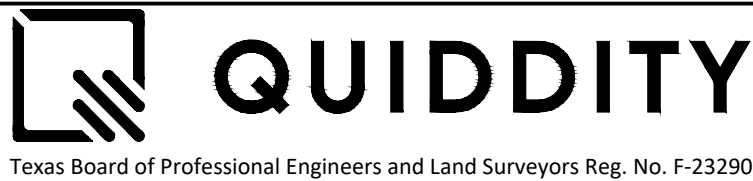


**1502 - CLASS "AA"
BEDDING FOR PIPE SEWERS DETAIL**

36" DIAMETER AND SMALLER
NOT TO SCALE

NO.	DATE	REVISIONS
		APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 7 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-28 SHEET NO. XX OF XXX
FOR CITY OF HOUSTON USE ONLY



TABLE 1

REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH: MAXIMUM TRANSVERSE CONTROL JOINT SPACING = 20'-0"
MAXIMUM EXPANSION JOINT SPACING = 80'-0"
 $f_c = 4,000$ PSI/28 DAYS AND $f_y = 60,000$ PSI

PAVEMENT THICKNESS (")	PAVEMENT WIDTH (FT)	LONGITUDINAL STEEL									TRANSVERSE STEEL		
		#4 BARS			#5 BARS			#6 BARS			#4 BARS	#5 BARS	#6 BARS
		NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	SPACING (IN)	SPACING (IN)	SPACING (IN)
6	28	17	20.50	4.00	--	--	--	--	--	--	36	--	--
7	25	17	18.25	4.00	--	--	--	--	--	--	36	--	--
7	35	24	18.00	4.00	--	--	--	--	--	--	36	--	--
7	36	25	17.75	3.00	--	--	--	--	--	--	36	--	--
7	37	25	18.25	3.00	--	--	--	--	--	--	36	--	--
7	41	28	18.00	3.00	--	--	--	--	--	--	36	--	--
7	45	31	17.75	3.75	--	--	--	--	--	--	36	--	--
8	20	15	15.50	2.75	13	13	24.50	3.0	--	--	36	--	--
8	34	27	15.50	2.50	17	17	25.00	4.0	--	--	36	36	--
8	35	27	16.00	2.00	18	24.25	4.0	--	--	--	36	36	--
8	38	28	15.75	3.25	18	25.00	3.0	--	--	--	36	36	--
8	44	24	15.75	4.00	22	24.75	4.0	--	--	--	36	36	--
8	45	35	15.75	2.25	23	24.25	3.0	--	--	--	36	36	--
8	22	14	14.00	3.00	14	22.50	4.0	--	--	--	36	36	--
9	34	31	13.50	2.00	19	22.25	3.5	--	--	--	36	36	--
9	35	31	13.75	3.75	20	21.75	3.5	--	--	--	36	36	--
9	32	32	13.75	3.00	21	21.25	3.5	--	--	--	36	36	--
9	44	39	13.75	2.75	25	21.75	3.0	--	--	--	24	36	--
9	45	39	14.00	4.00	26	21.25	4.5	--	--	--	24	36	--
10	24	15	12.75	3.00	17	18.25	4.0	--	--	--	36	36	--
10	34	33	12.50	4.00	21	20.00	4.0	--	--	--	30	36	36
10	35	34	12.50	3.75	22	19.75	4.0	--	--	--	30	36	36
10	36	35	12.50	3.50	24	18.50	3.0	--	--	--	30	36	36
10	44	44	12.00	4.00	29	18.50	4.5	--	--	--	24	36	36
10	45	44	12.50	3.00	29	19.00	3.0	--	--	--	36	36	36
11	25	27	11.25	3.00	17	18.25	4.0	12	26.75	3	36	36	36
11	34	36	11.50	2.75	24	17.50	2.5	17	25.00	4	24	36	36
11	35	37	11.50	3.00	24	18.00	3.0	17	25.75	4	24	36	36
11	36	40	11.00	2.00	25	17.75	3.0	21	26.00	4	24	36	36
11	44	48	11.25	2.50	30	18.00	3.0	21	26.50	4	24	36	36
11	48	11	11.25	3.00	31	17.75	4.0	22	23.50	5	24	36	36
12	25	--	--	--	19	16.25	4.0	13	24.50	3	36	36	36
12	34	--	--	--	26	16.00	4.0	18	23.50	4	24	36	36
12	35	--	--	--	26	16.50	4.0	19	23.00	3	36	36	36
12	36	--	--	--	27	16.25	4.5	20	22.25	4.5	24	36	36
12	44	--	--	--	33	16.25	4.0	24	22.50	5	24	30	36
12	45	--	--	--	33	15.75	3.5	25	22.25	3	24	30	36

MINIMUM LAP LENGTH (L):

A. ϕ 4 BARS : L = 22 INCHES

B. ϕ 5 BARS : L = 27 INCHES

C. ϕ 6 BARS : L = 32 INCHES

NOTES:

1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMORPHIC UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF 500 SS/GRASS TO PREVENT EROSION UNTIL STRIP OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCING BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE, SOIL IS NOT SUFFICIENT TO ACCOMMODATE REINFORCING WITH (DN) ACCORDING TO DM REQUIREMENTS, CONTRACTOR SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.
7. REFER TO CONTRACT DRAWINGS FOR PAVEMENT WIDTH (PW) AND PAVEMENT THICKNESS (T), MEDIAN (M), PEDESTRIAN WALKWAY (PWALK), SIDEWALK (SW), FRONTAGE DRIVE (FD), DRIVE (D), AND SIDEWALK (SW) WIDTHS.

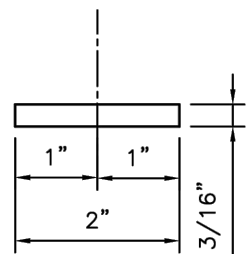
APPROVED BY: David Isaacson CITY ENGINEER	APPROVED BY: Leanne Hofferter CITY TRAFFIC ENGINEER
APPROVED BY: Carl Hallock CITY OF HOUSTON	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFFECT DATE: NOV-27-2023	DWG NO: 02751-01
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
CONCRETE PAVEMENT DETAILS	
	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
NOT TO SCALE	

- NOTES:

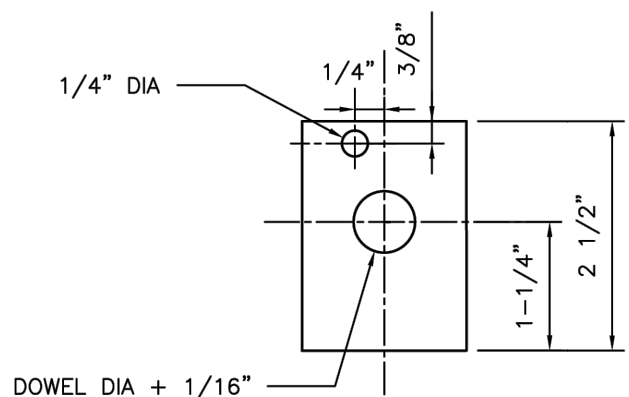
1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED 12" CENTER ON CENTER.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN COVER.
5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE.



DOWEL TYPE EXPANSION JOINT



PLAN VIEW
JOINT PLATE



ELEVATION VIEW

JOINT PLATE

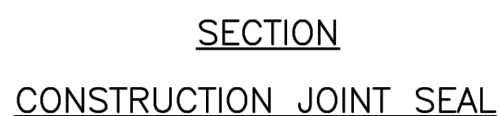
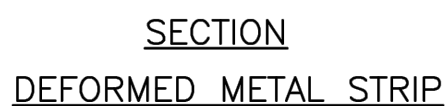
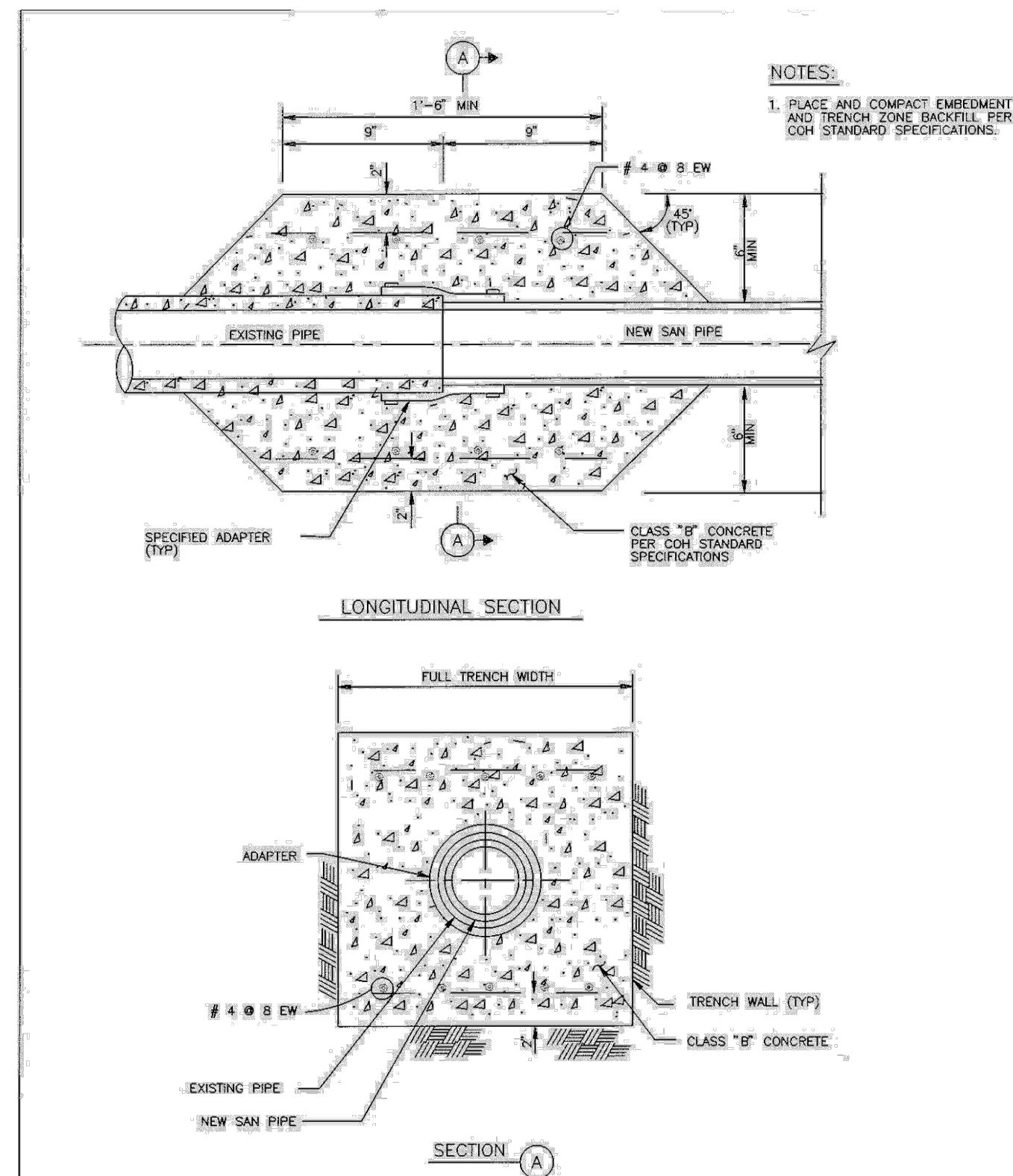


TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

<h1 style="text-align: center;">CITY OF HOUSTON</h1> <h2 style="text-align: center;">HOUSTON PUBLIC WORKS STANDARD</h2>	
<h3>PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS</h3> <p>(SCALE: NOT TO SCALE)</p>	
<p>APPROVED BY:</p>	
<p>Discussed by:</p> <p><i>Suhail kumar</i> #EFP0061415416</p> <p>CITY ENGINEER</p> <p><i>Leah Nguyen</i> #EFP0061415416</p> <p>CITY TRAFFIC ENGINEER</p>	<p>Discussed by:</p> <p><i>Carl Hubbard</i> #EFP0061415416</p> <p>DIRECTOR OF HPW</p>
<p>EFF DATE: NOV-27-2023 DWG NO: 02752-01</p>	



CITY OF HOUSTON	
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER	
PIPE TRANSITION FOR 36"	
SEWER AND SMALLER	
(NOT TO SCALE)	
APPROVED BY: <i>David G. ...</i> CITY ENGINEER	APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02531-04

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: <u>JANUARY 2026</u>	DGN BY: <u>MBMITCHELL</u>
JOB NO: <u>00050-0099-01</u>	DWG BY: <u>JMMUSSO</u>

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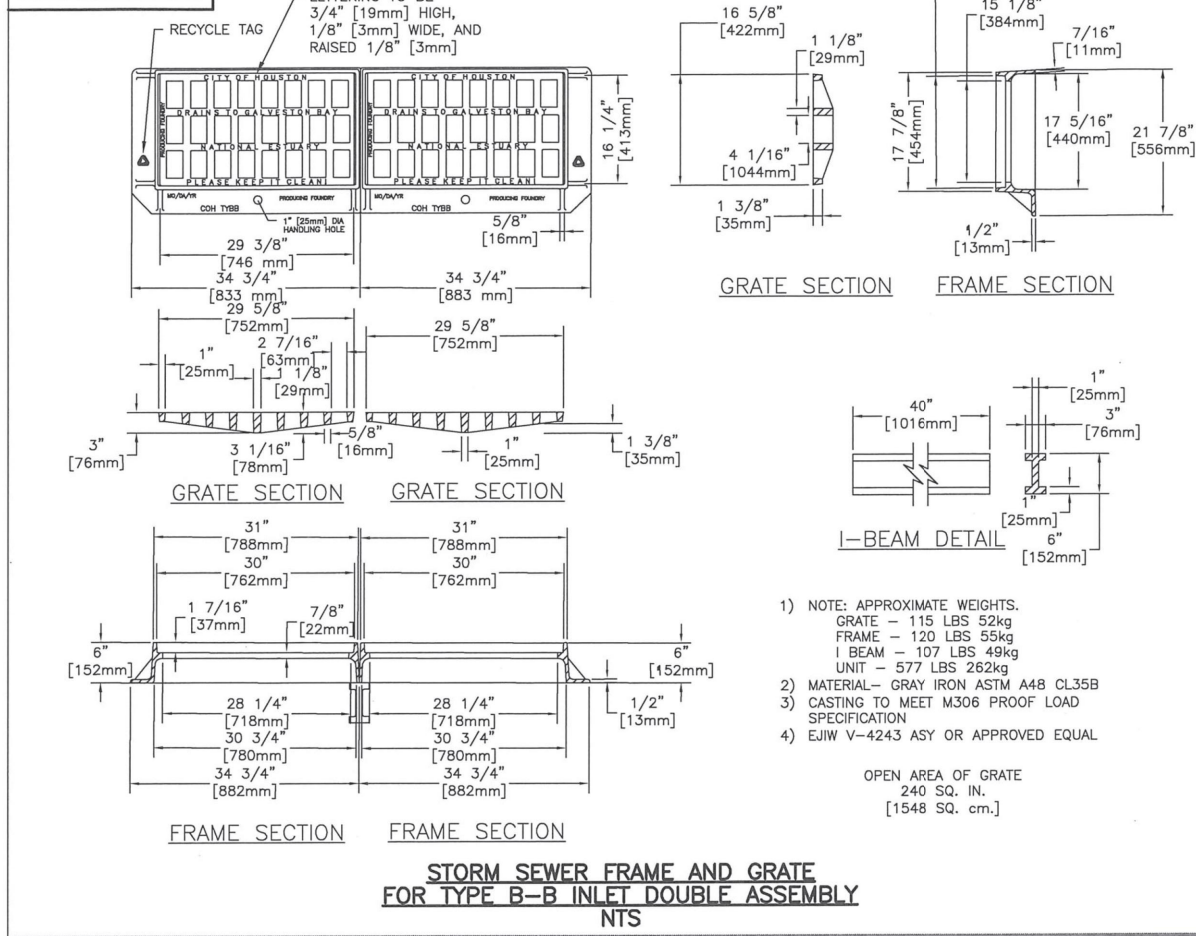
SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 8 OF 16

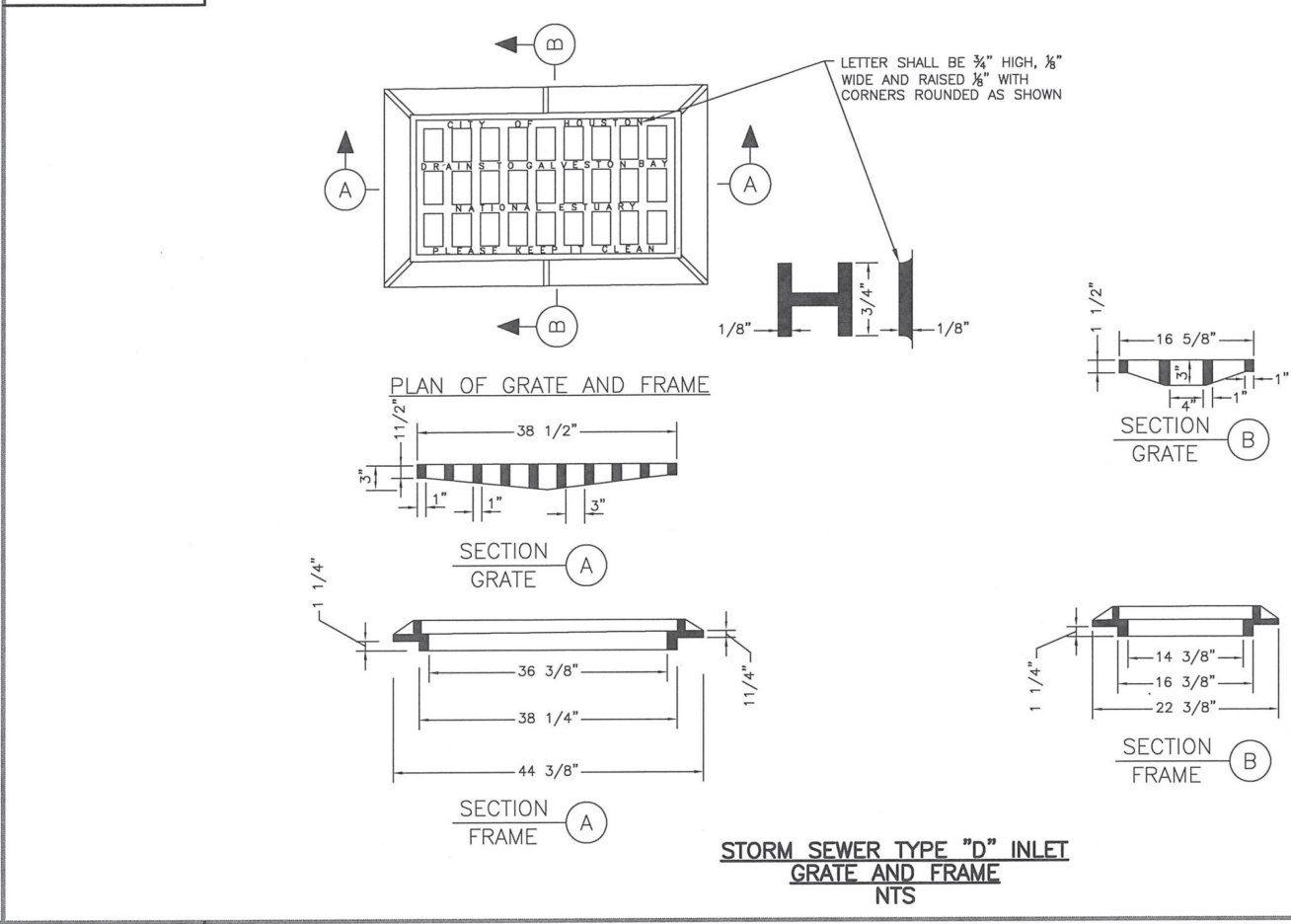
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1'		HORIZ: XXX		VERT: XXX	
CATEGORY NO. 0-C-29		SHEET NO. XX		OF XXX	
FOR CITY OF HOUSTON USE ONLY					

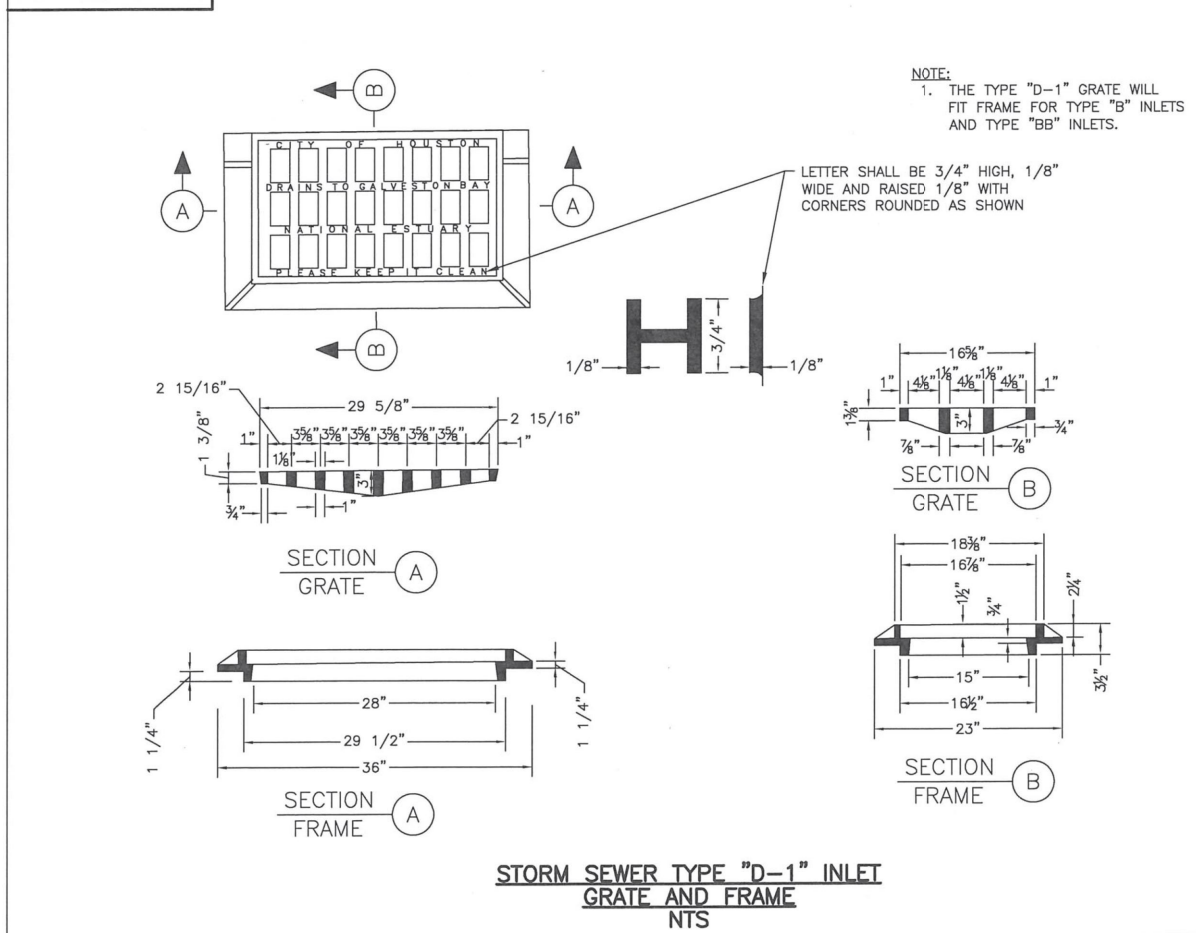
02084-05



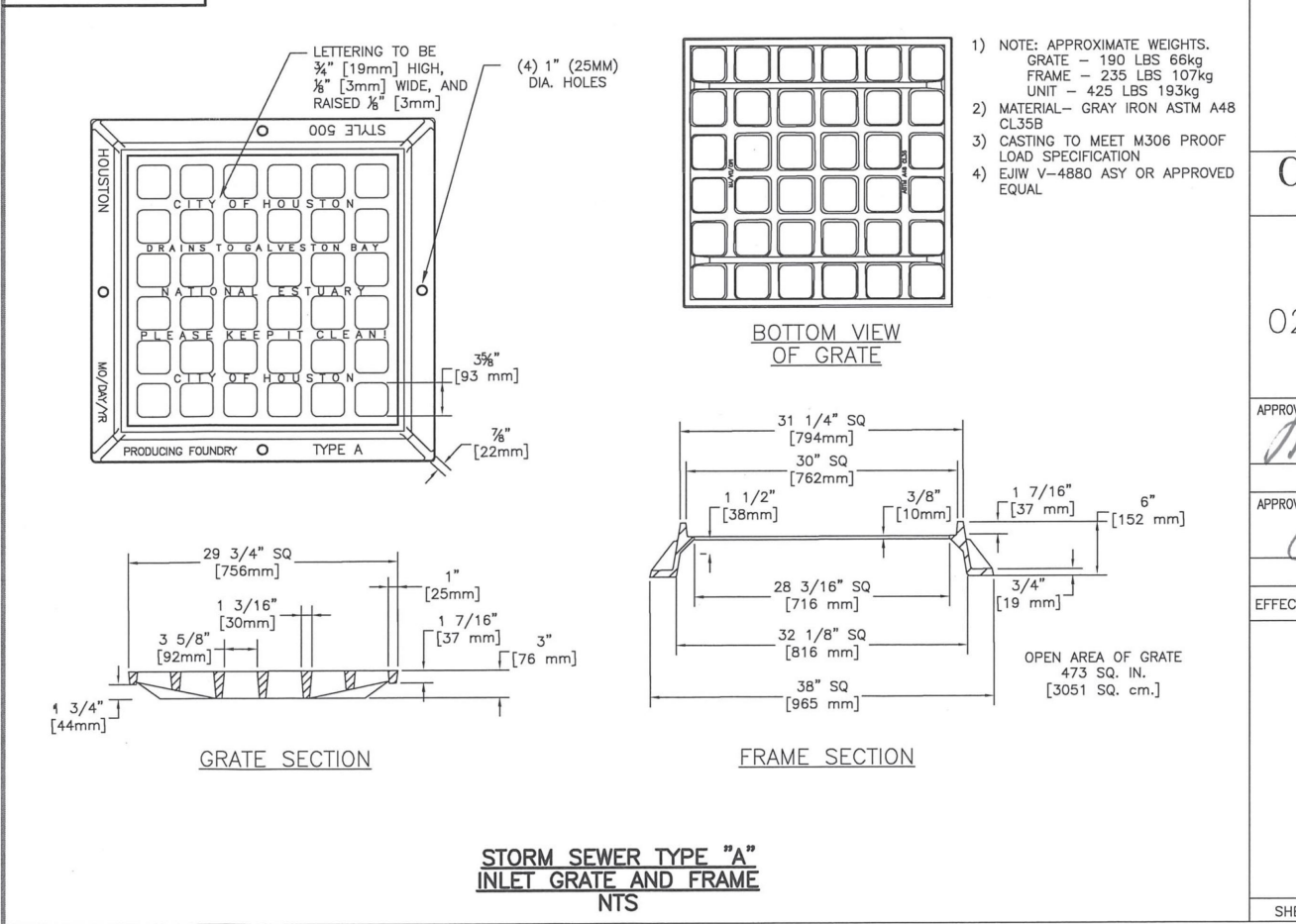
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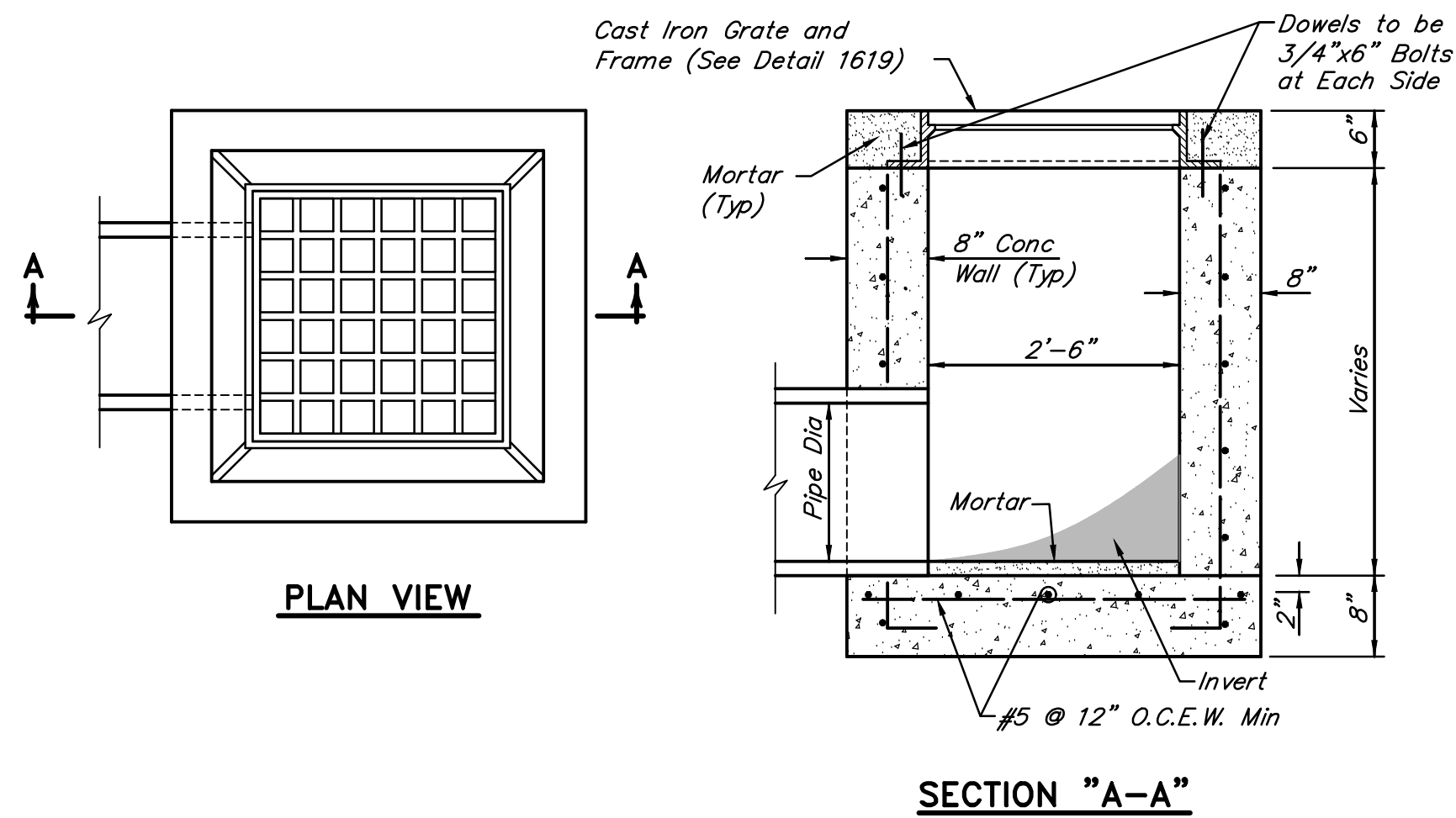
02084-07



02084-08



FIRM INFORMATION		ENGINEER'S SEAL	
CITY OF HOUSTON		HOUSTON PUBLIC WORKS	
STORM SEWER 02084-05 THROUGH 08			
APPROVED BY:		APPROVED BY:	
CITY ENGINEER		SENIOR DIRECTOR	
EFFECTIVE DATE: JUL-01-2019			
FOR CITY OF HOUSTON USE ONLY			
SHEET NO.			



TYPICAL TYPE "A" CHEMICAL SPILL DRAIN INLET DETAILS
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW	
Not intended for construction, bidding or permit purposes.	
Engineer: HARRY W. ISENSEE III, P.E.	
P.E. Serial No.: 144401	
Date: JANUARY 2026	

**QUIDDITY**
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

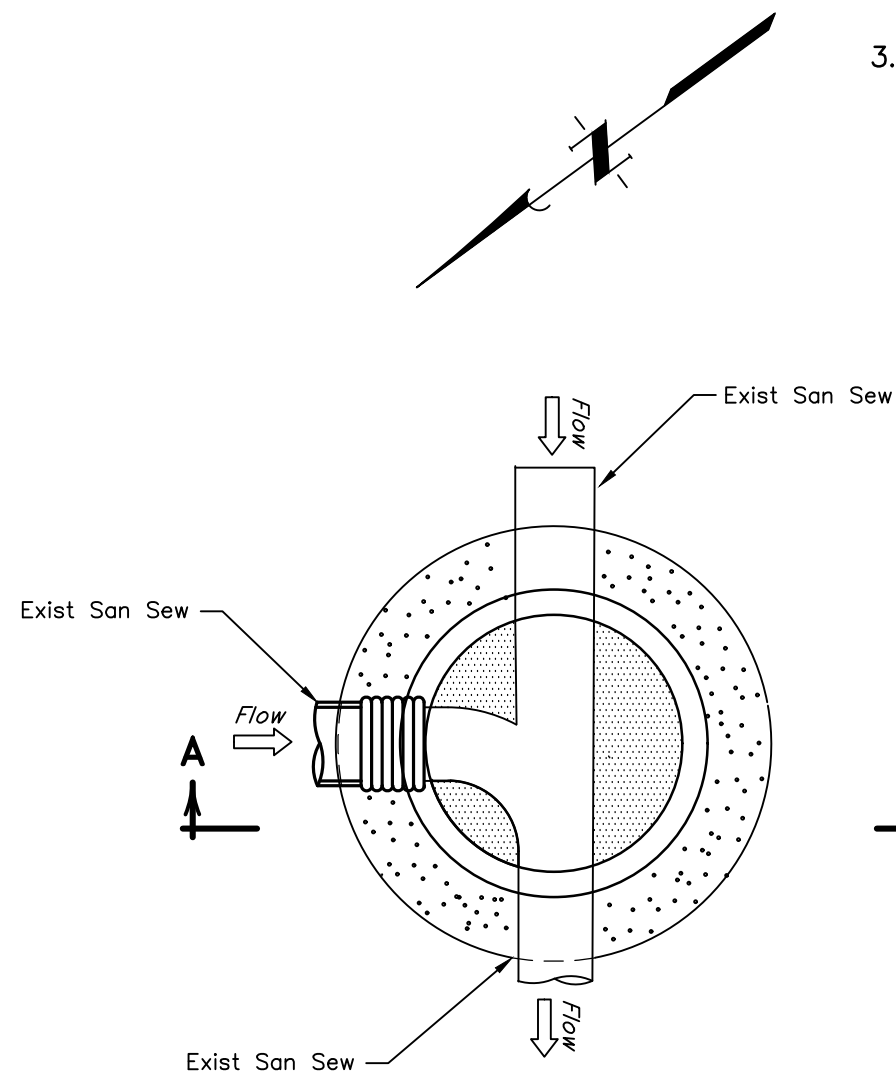
CIVIL DETAILS
SHEET 9 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

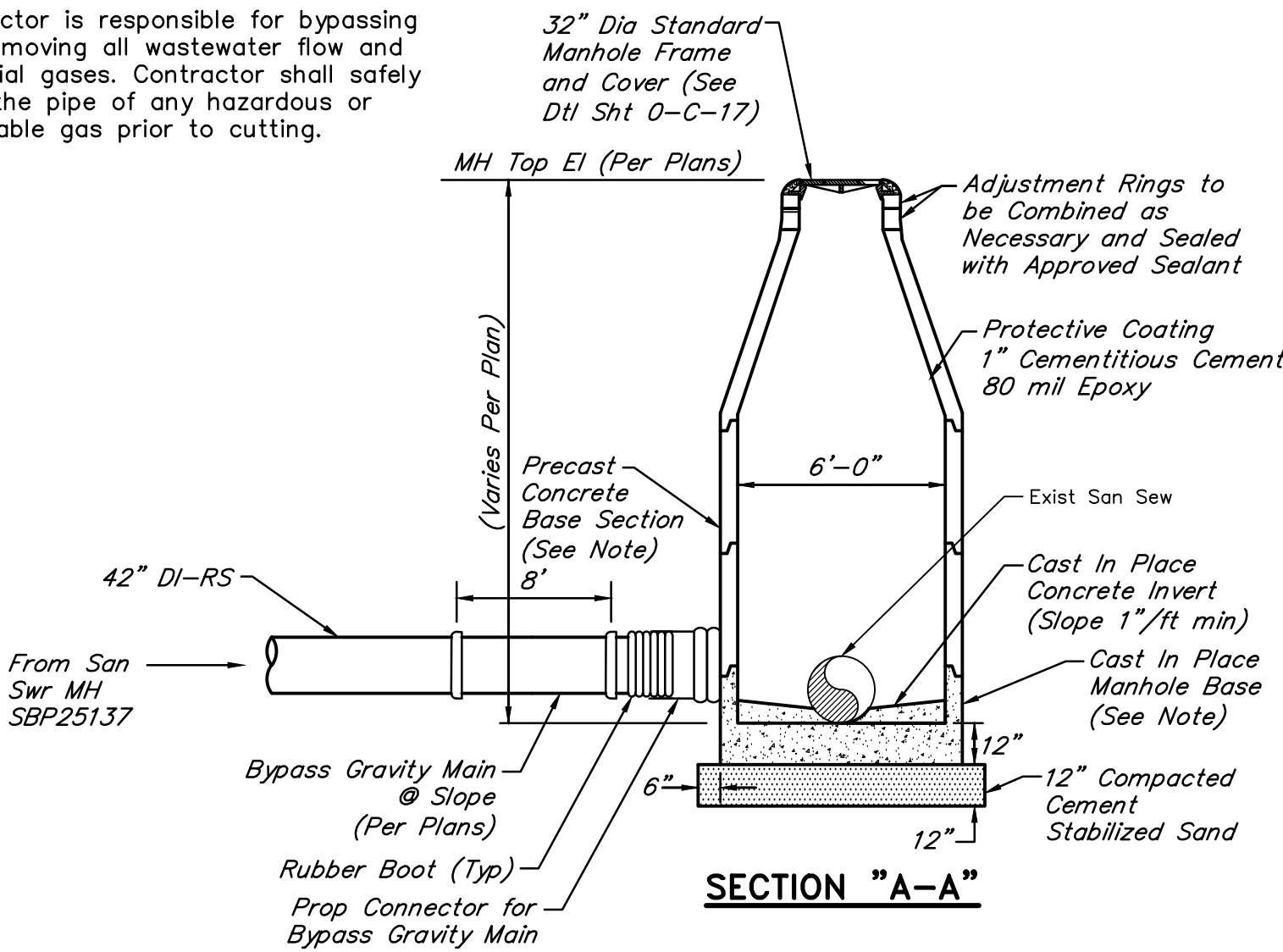
DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-30 SHEET NO. XX OF XXX
FOR CITY OF HOUSTON USE ONLY

NOTES:

- Contractor to manufacture portion of precast manhole walls to accommodate existing San Sew line. Pour base under existing line and place pre-cast manhole into the wet cement. Fill in around existing line with grout.
- Contractor to cut through exist San Sew line to accommodate doghouse man hole and allow flow to pass through.
- Contractor is responsible for bypassing and removing all wastewater flow and potential gases. Contractor shall safely clear the pipe of any hazardous or flammable gas prior to cutting.



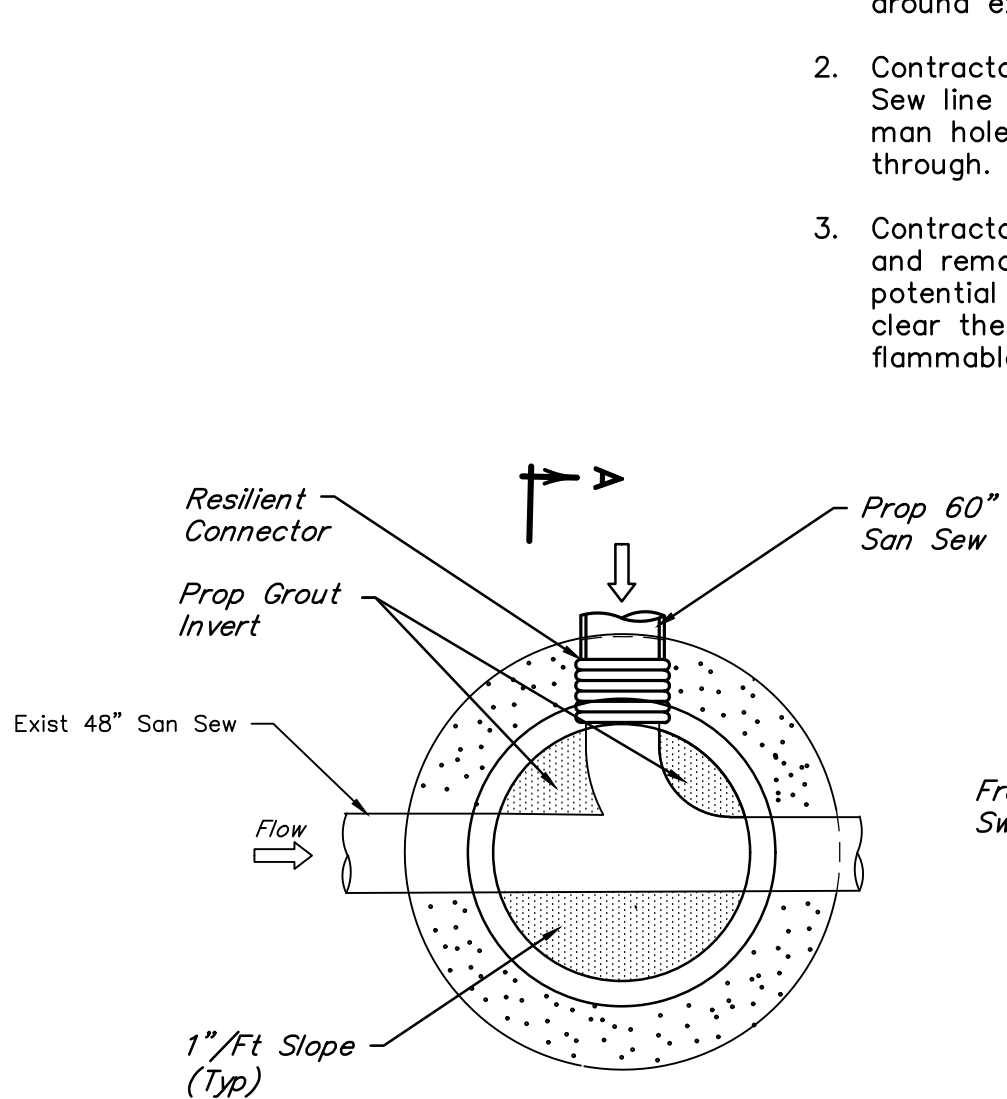
FOUNDATION PLAN



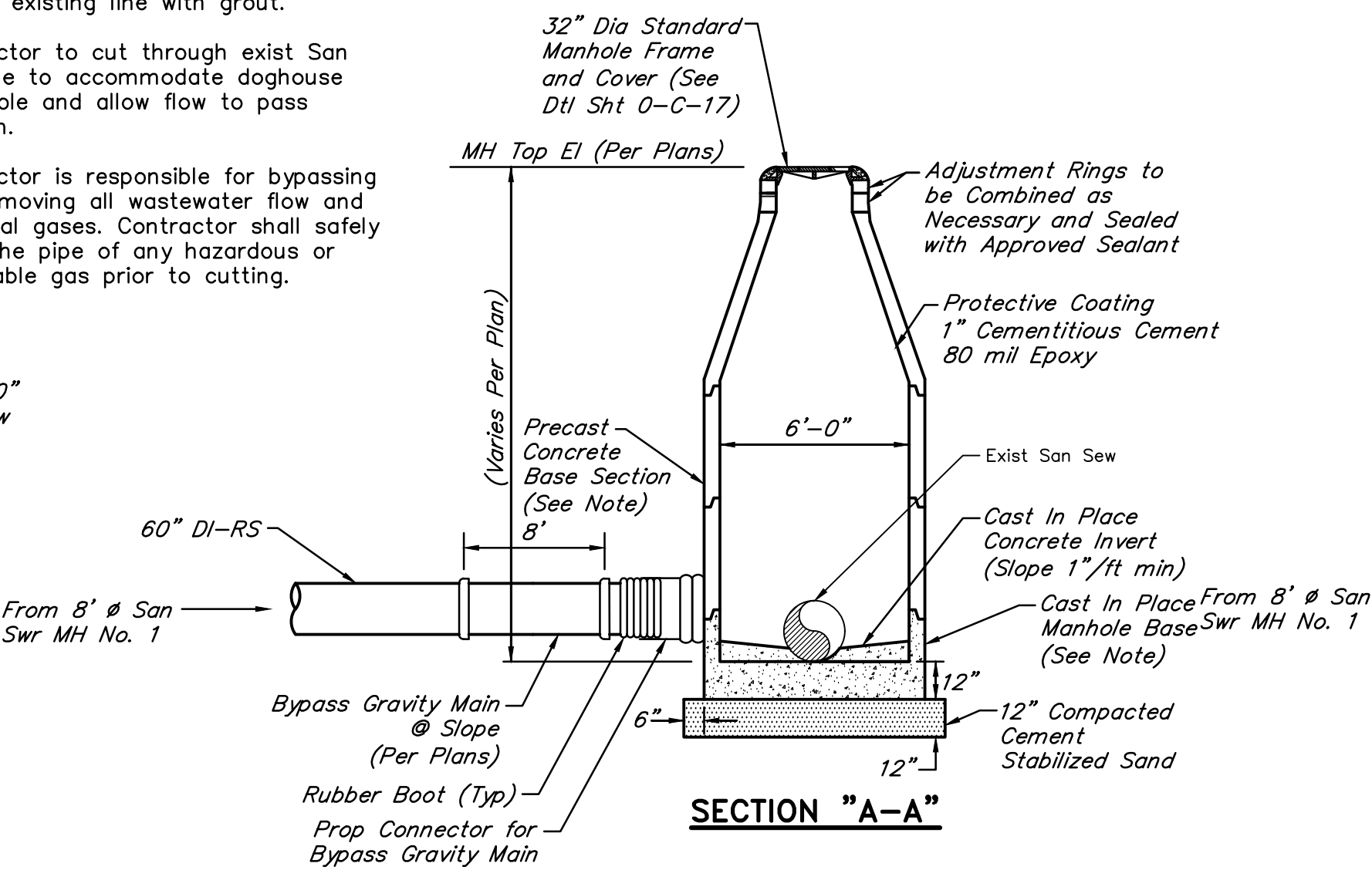
DOGHOUSE MANHOLE No. 1 DETAIL

NOT TO SCALE

- Contractor to manufacture portion of precast manhole walls to accommodate existing San Sew line. Pour base under existing line and place pre-cast manhole into the wet cement. Fill in around existing line with grout.
- Contractor to cut through exist San Sew line to accommodate doghouse man hole and allow flow to pass through.
- Contractor is responsible for bypassing and removing all wastewater flow and potential gases. Contractor shall safely clear the pipe of any hazardous or flammable gas prior to cutting.

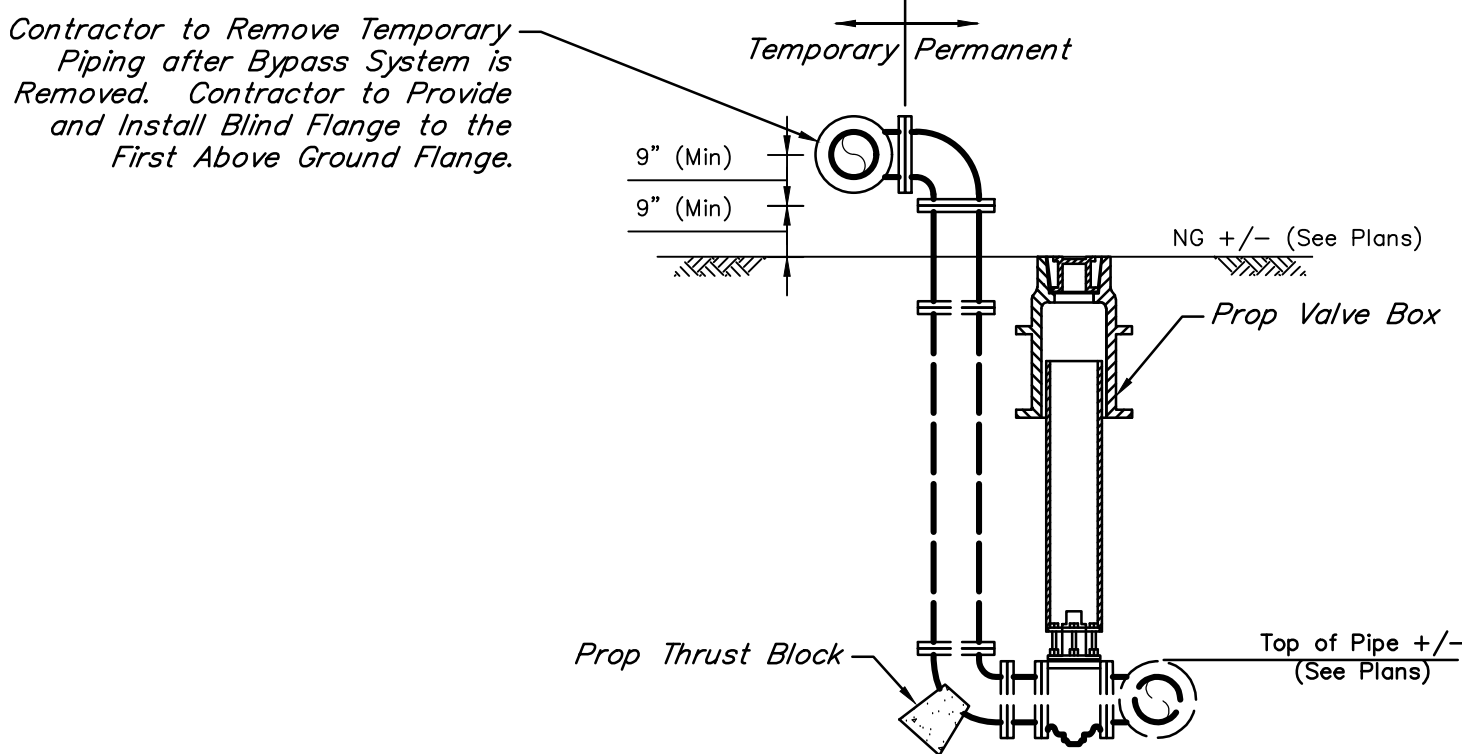


FOUNDATION PLAN



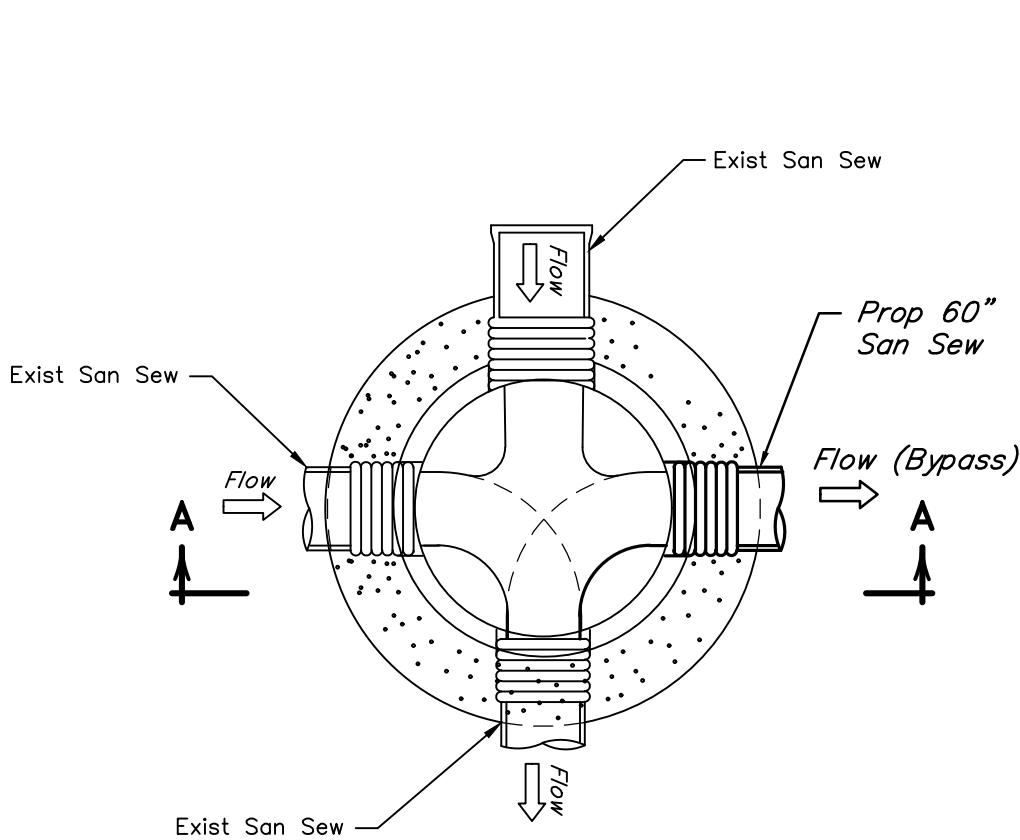
DOGHOUSE MANHOLE No. 2 DETAIL

NOT TO SCALE

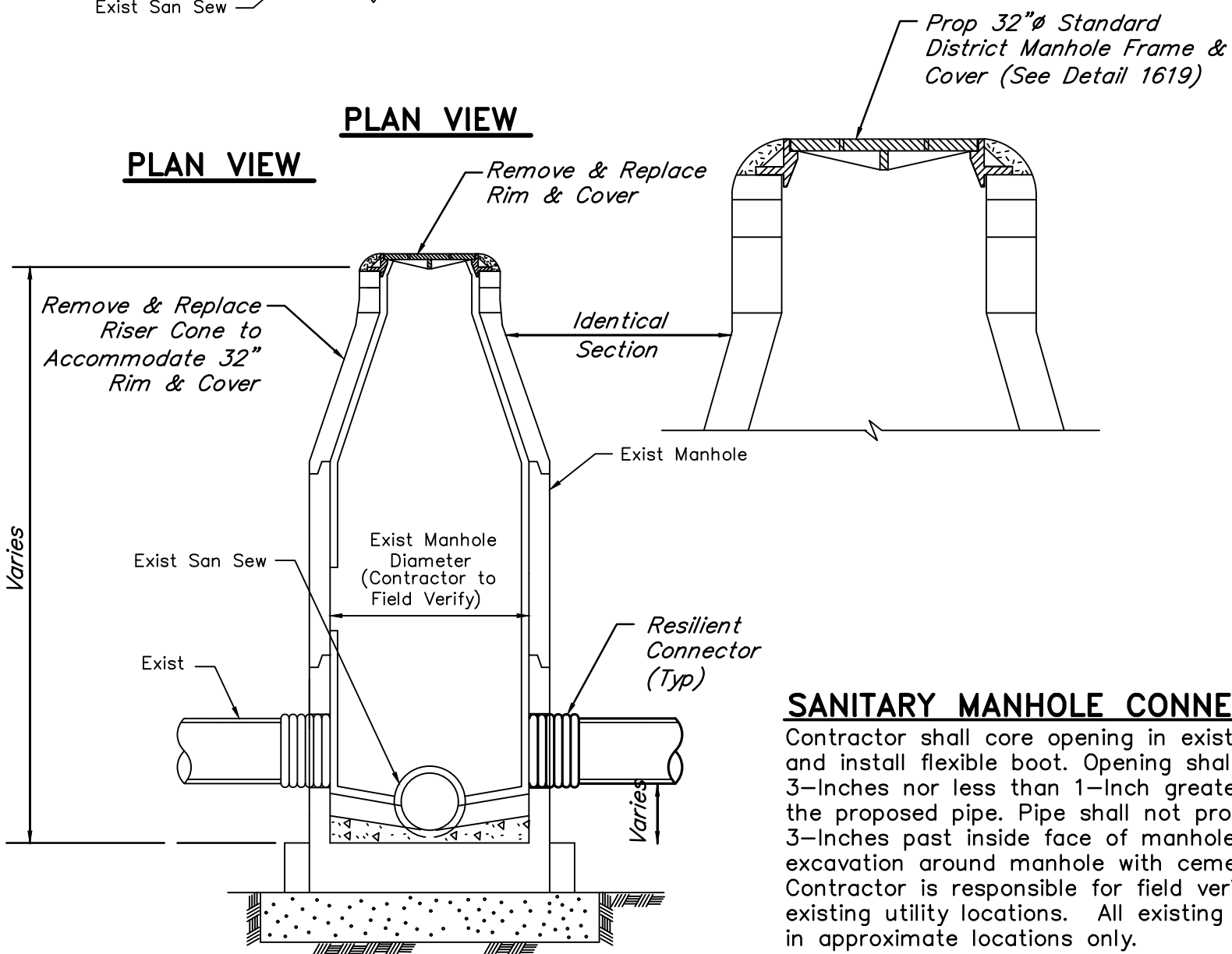


UNDERGROUND PIPING PROFILE
PERMANENT BYPASS CONNECTION JUNCTION

NOT TO SCALE



PLAN VIEW



SECTION "A-A"

CONNECTION TO EXISTING MANHOLE

NOT TO SCALE

NOTES:

- Any damage to existing manhole is responsibility of Contractor. Contractor to perform repairs or manhole replacement at no additional cost.
- Provide backfill to match adjacent pipe trench backfill per standard specification.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

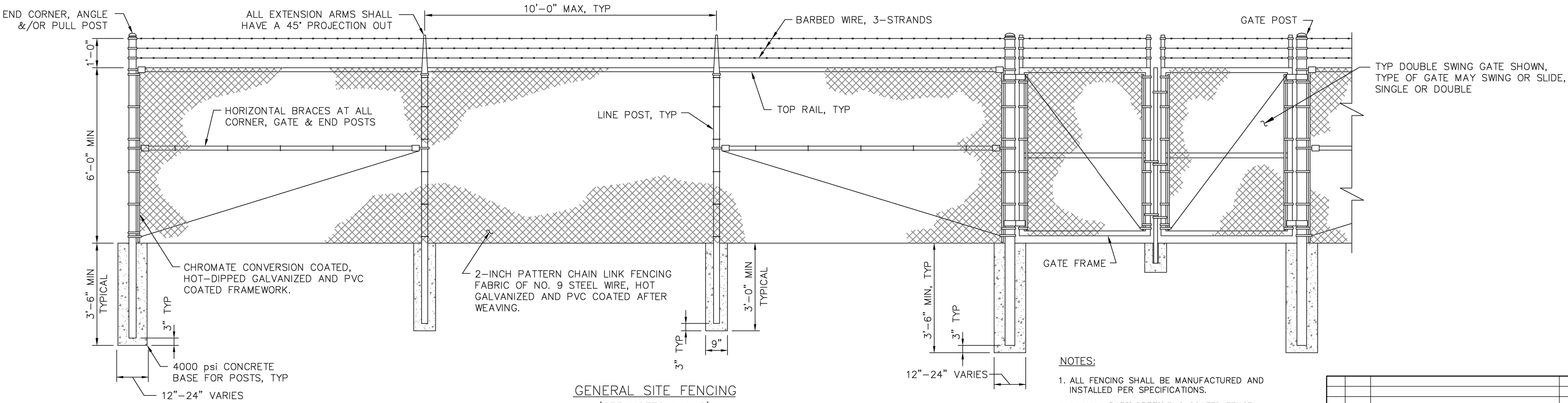
CIVIL DETAILS
SHEET 10 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX

CATEGORY NO. 0-C-31 SHEET NO. XX OF XXX

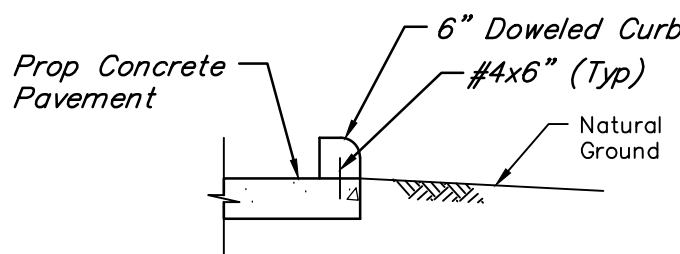
FOR CITY OF HOUSTON USE ONLY



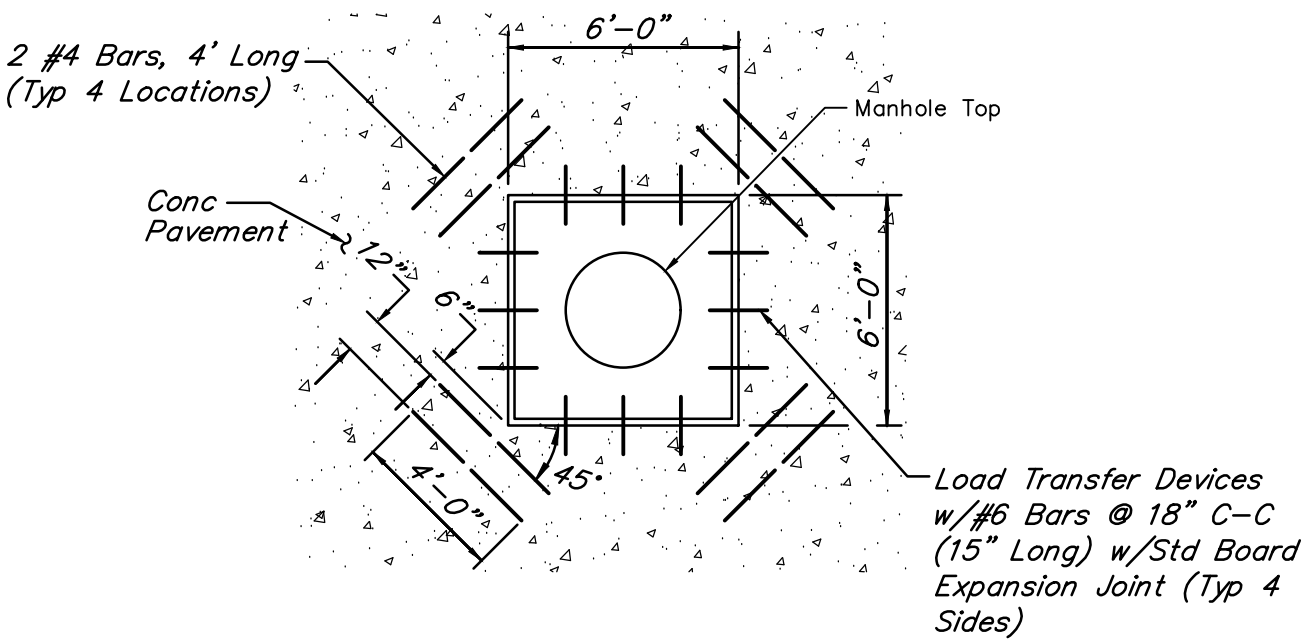
GENERAL SITE FENCING
(SEE NOTES 1 & 2)

DETAIL 17
ZOC08

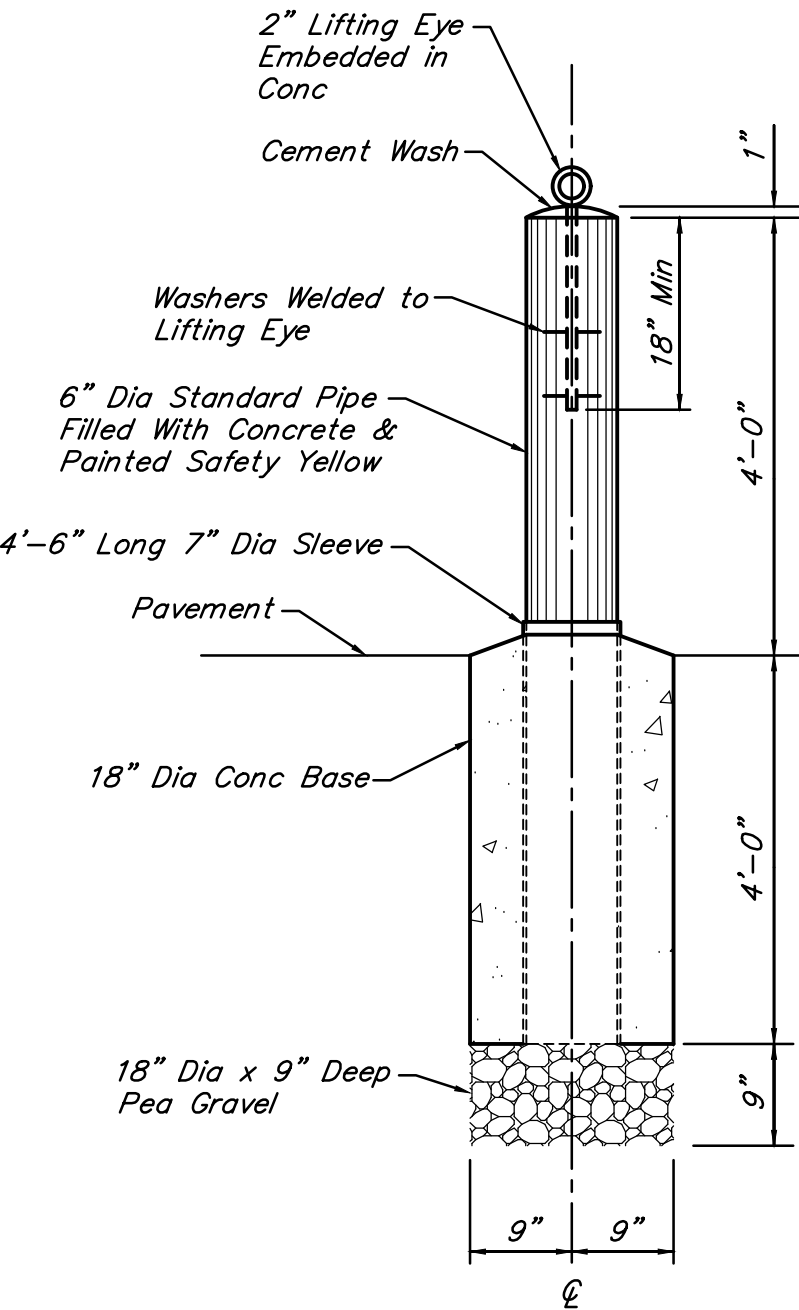
- NOTES:
- ALL FENCING SHALL BE MANUFACTURED AND INSTALLED PER SPECIFICATIONS.
 - PROVIDE **DARK GREEN** PVC COATED FENCE FABRIC, POSTS AND HARDWARE. PROVIDE **DARK GREEN** PVC FENCE SLATS.



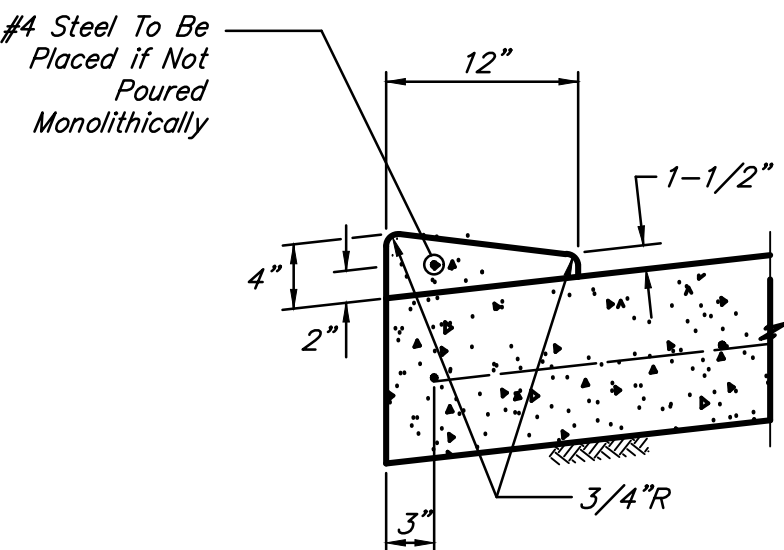
CONCRETE CURB DETAIL
NOT TO SCALE



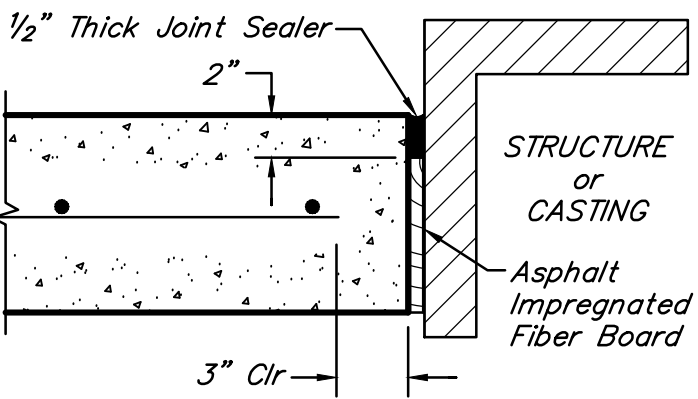
PAVEMENT BLOCK OUT DETAIL
NOT TO SCALE



REMOVABLE BOLLARD DETAIL
NOT TO SCALE



TYPICAL 4"x12" CONCRETE ROLLOVER CURB DETAIL
NOT TO SCALE



ISOLATION JOINT DETAIL
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

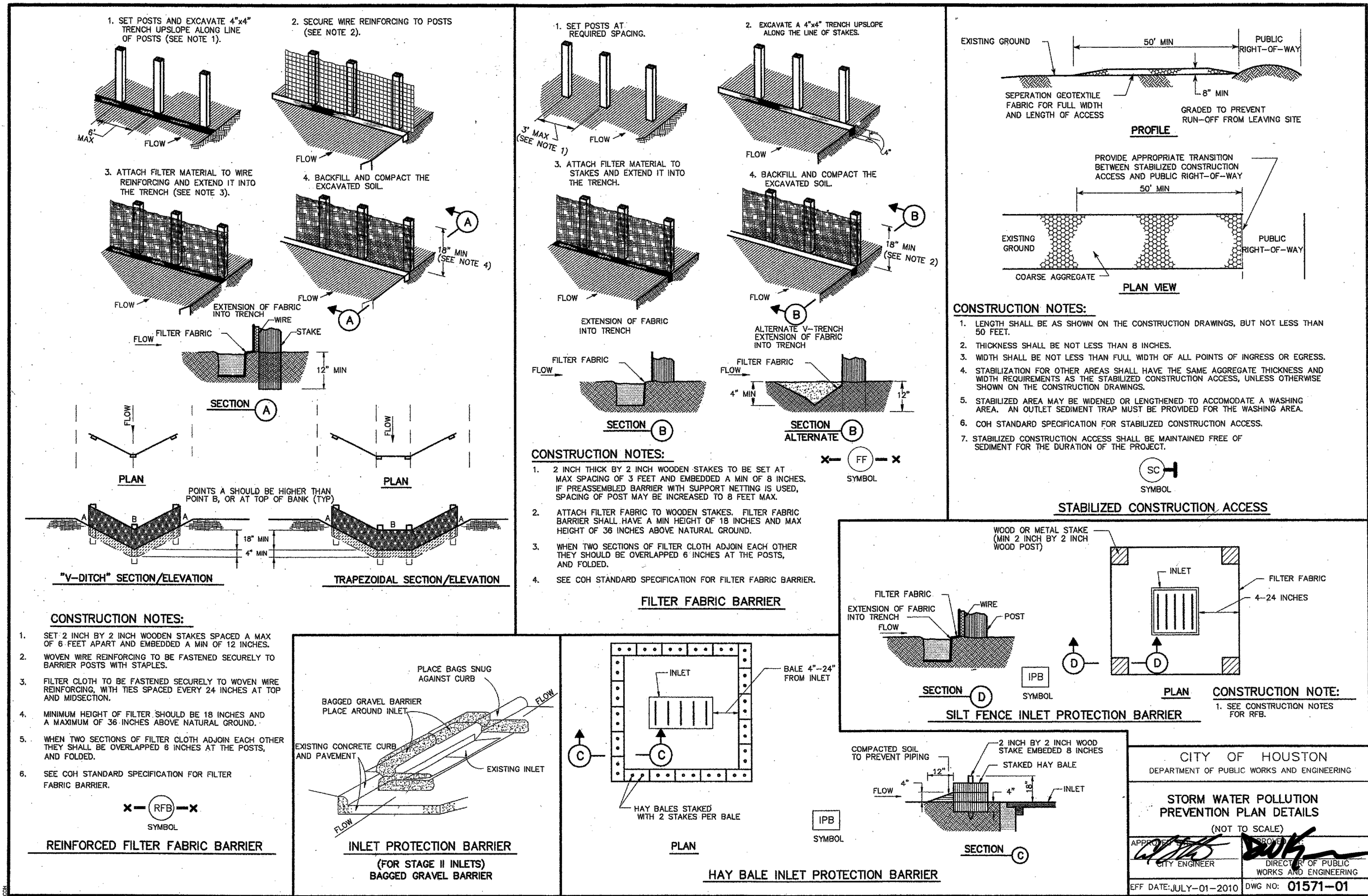
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 11 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1'	HORIZ: XXX	VERT: XXX
CATEGORY NO. 0-C-32	SHEET NO. XX	OF XXX
FOR CITY OF HOUSTON USE ONLY		



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: JANUARY 2026

QUIDDITY

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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

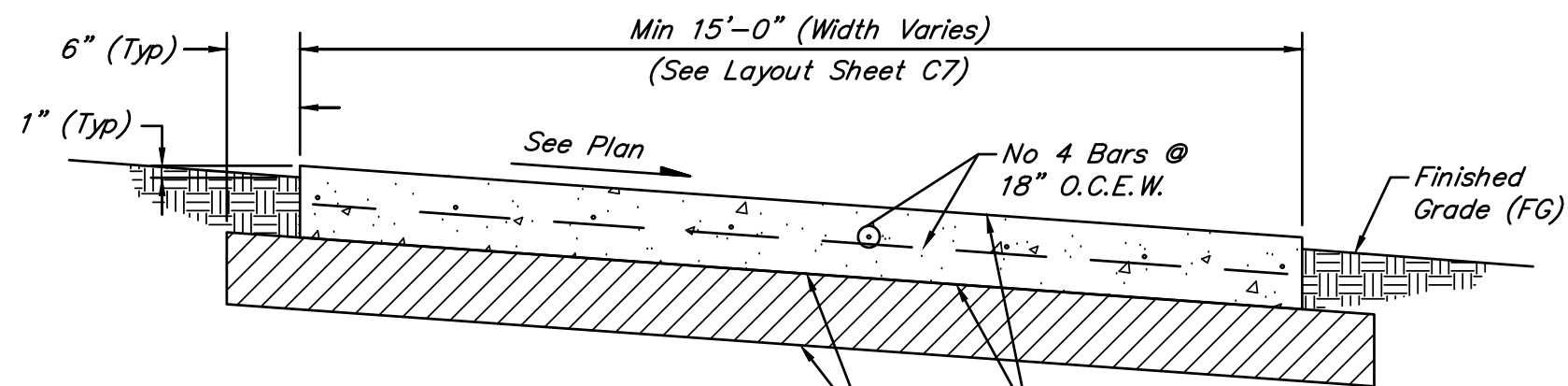
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS
SHEET 12 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 0-C-33 SHEET NO. --- OF XXX
FOR CITY OF HOUSTON USE ONLY



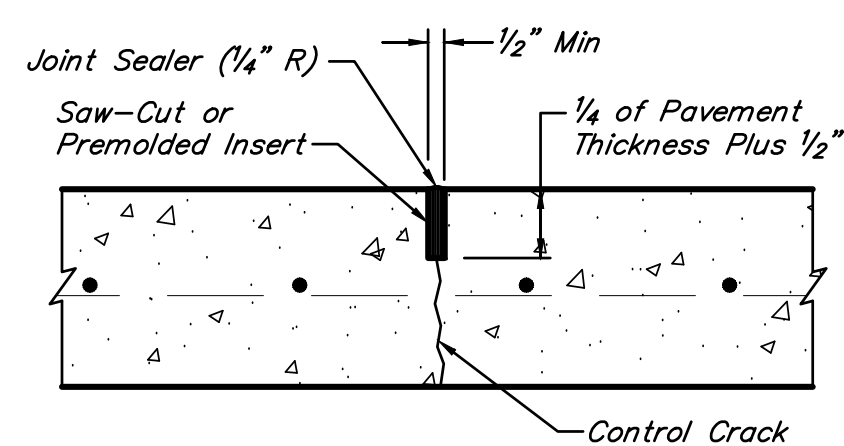
6" Subgrade Chemically Treated w/ 6% Lime. Compact Treated Subgrade to 95% Standard Proctor (ASTM D 698). The Compacted Moisture Shall be $\pm 2\%$ of the Optimum Moisture Content.

NOTES:

1. Driveway adjacent to proposed plant structures shall have isolation joints (See detail this sheet).
2. Subgrade shall be prepared in accordance with applicable sections of the geotechnical investigation ALPHA Report No. H221795 by ALPHA Testing dated July 21, 2022.

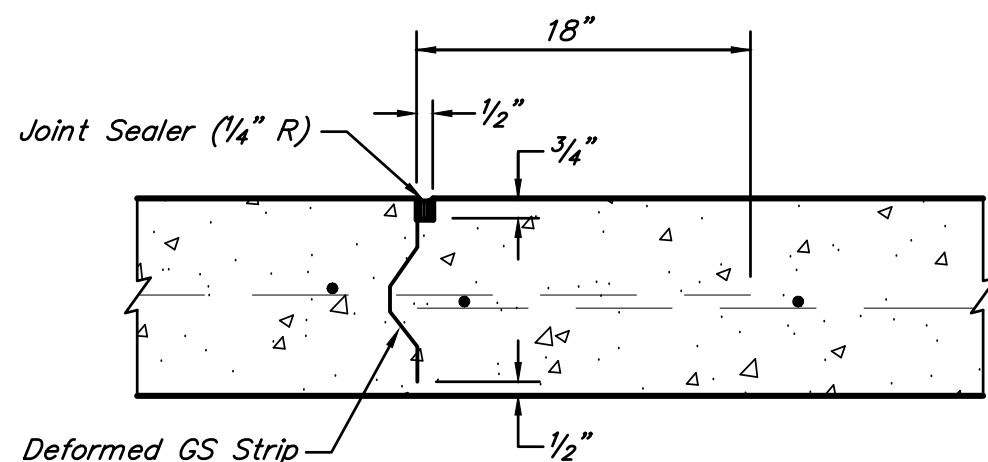
TYPICAL CONCRETE PAVEMENT SECTION

NOT TO SCALE



SAW-CUT CONTROL JOINT

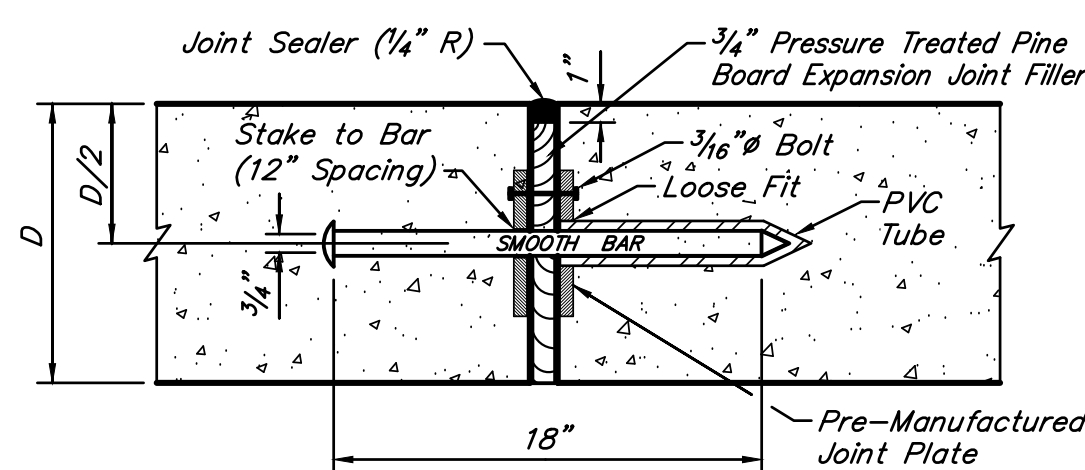
NOT TO SCALE



KEYED CONSTRUCTION JOINT

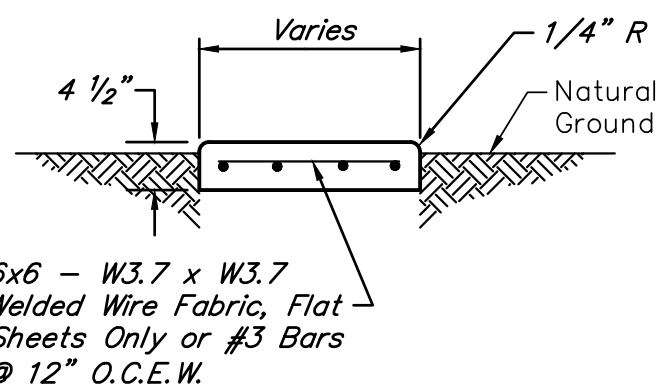
NOT TO SCALE

NOTE: "D" equals pavement thickness.



EXPANSION JOINT

NOT TO SCALE

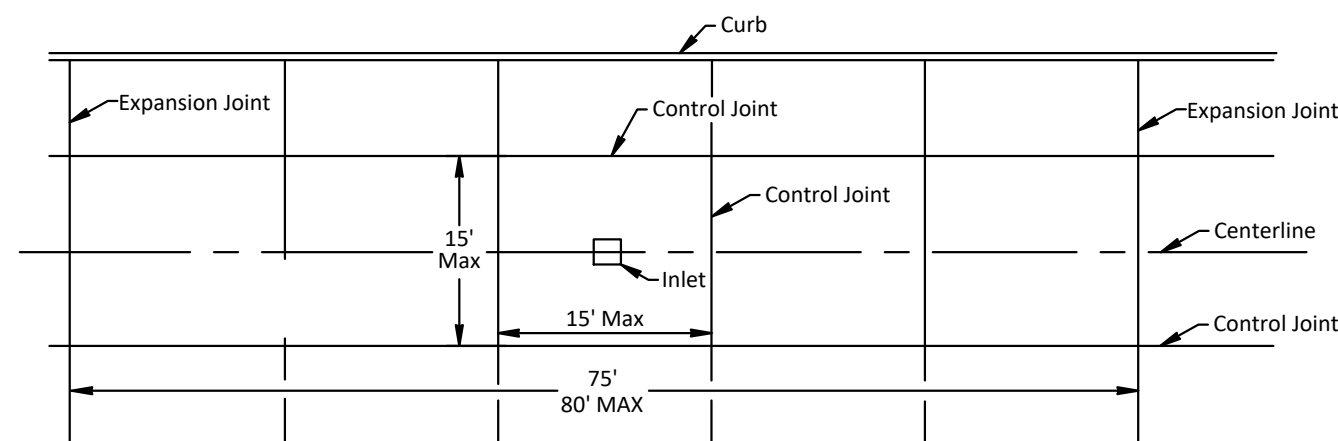


SIDEWALK NOTES:

1. Provide tooled or saw-cut control or keyed construction joints at every 4' and expansion joints at every 20'. (See details this sheet).
2. Slope concrete sidewalks 1/4" per foot to drain away from concrete slabs and foundations toward the proposed drainage system.

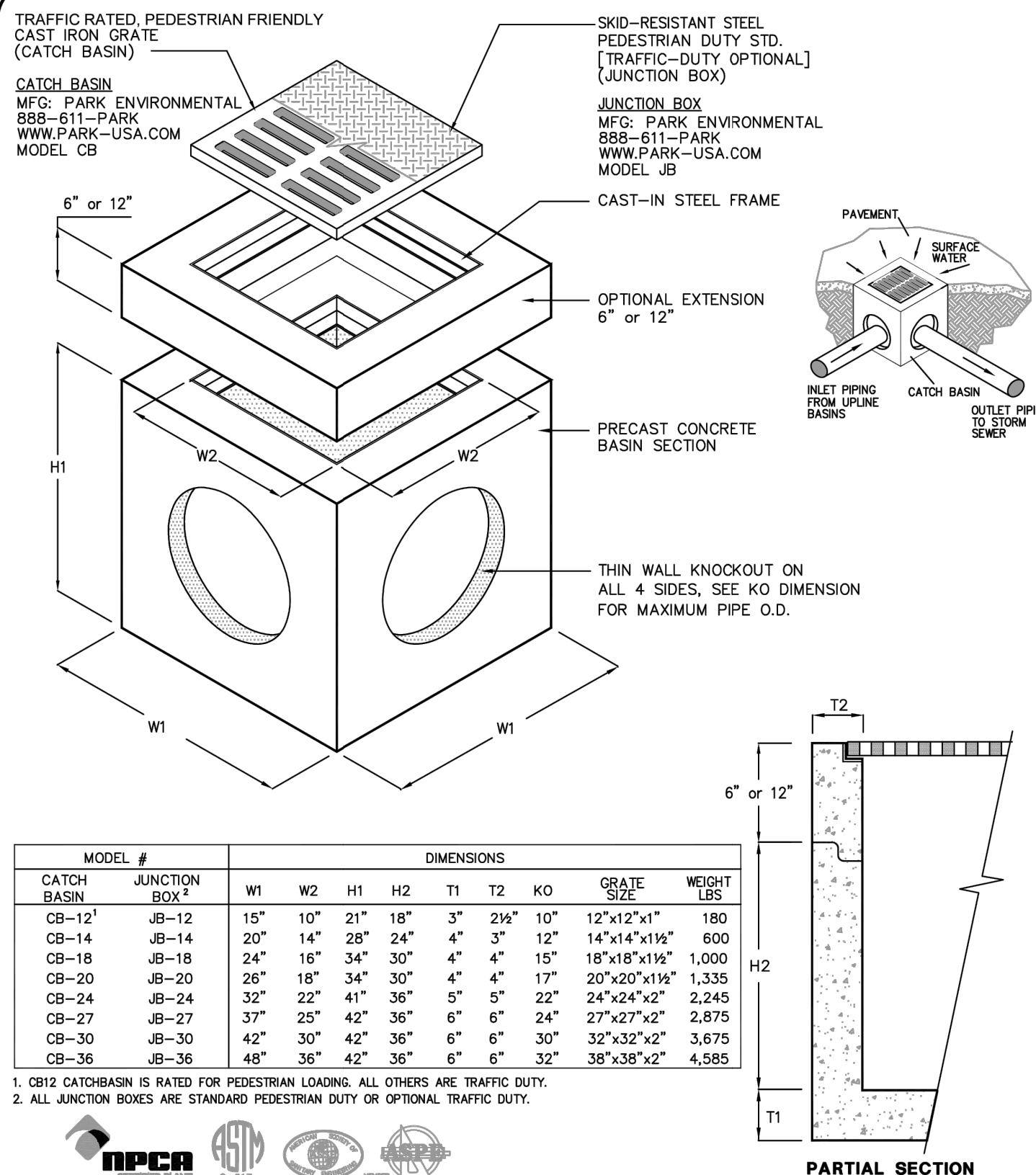
TYPICAL CONCRETE PAD AND SIDEWALK DETAIL

NOT TO SCALE



JOINT SPACING AND LAYOUT DETAIL FOR CONCRETE PAVEMENT

NOT TO SCALE



MODEL #	JUNCTION BOX	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	WEIGHT LBS
CB-12	JB-12	15"	10"	21"	18"	3"	21"	10"	12"x12"x1"	180
CB-14	JB-14	20"	14"	28"	24"	4"	3"	12"	14"x14"x1 1/2"	600
CB-18	JB-18	24"	18"	34"	30"	4"	4"	15"	18"x18"x1 1/2"	1,000
CB-20	JB-20	26"	18"	34"	30"	4"	4"	17"	20"x20"x1 1/2"	1,335
CB-24	JB-24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	2,245
CB-27	JB-27	37"	25"	42"	36"	6"	6"	24"	27"x27"x2"	2,875
CB-30	JB-30	42"	30"	42"	36"	6"	6"	30"	32"x32"x2"	3,675
CB-36	JB-36	48"	36"	42"	36"	6"	6"	32"	36"x36"x2"	4,585

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING. ALL OTHERS ARE TRAFFIC DUTY.
2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.



SPECIFICATIONS

CONCRETE : Class II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

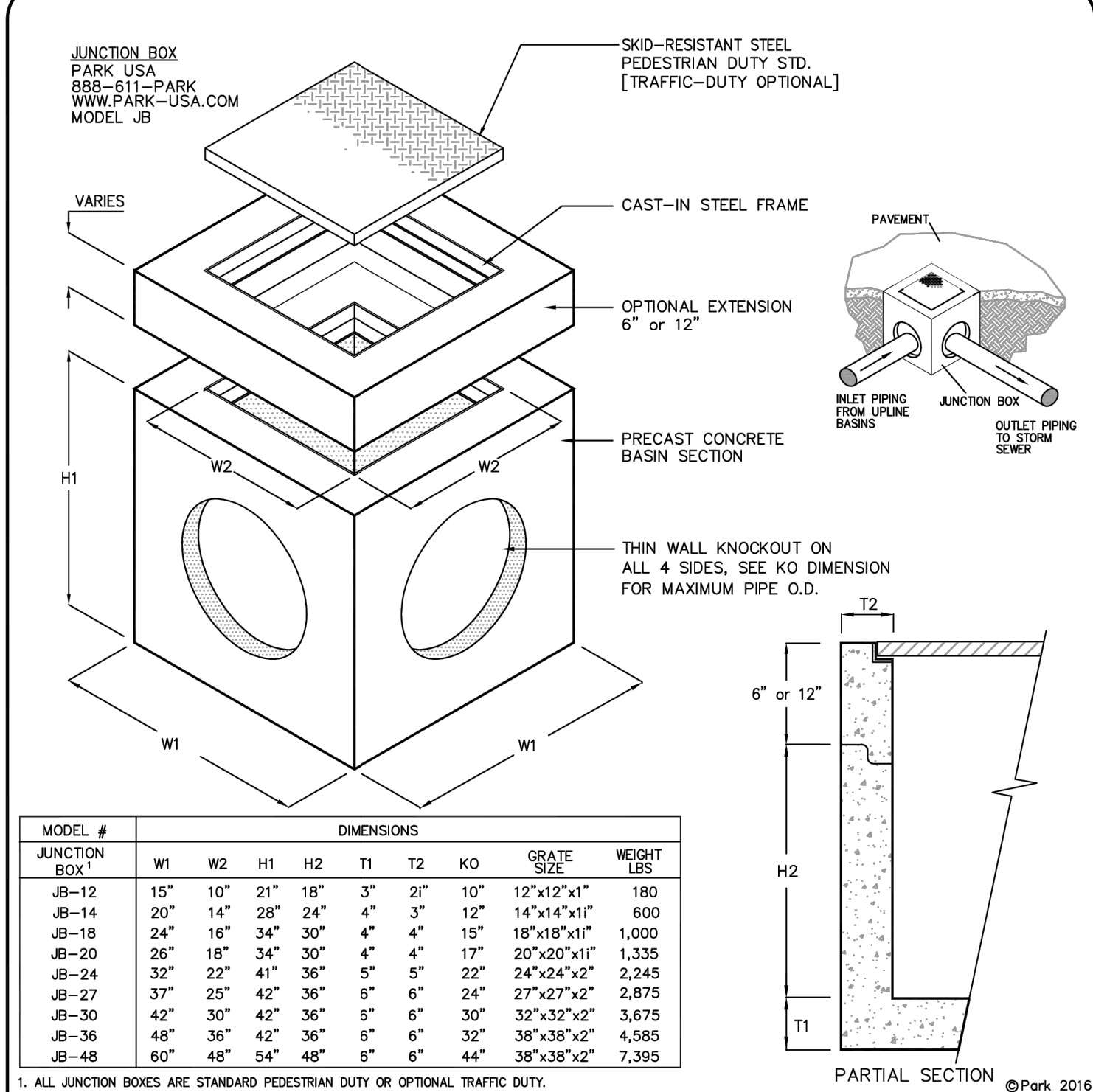
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 35.



"Expect the Best"

CATCH BASIN MODEL CB - 12" THRU 36"
JUNCTION BOX MODEL JB - 12" THRU 36"

SCALE NONE DWG. NO. CBJB36 REV. A
DATE 2010



MODEL #	JUNCTION BOX	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	WEIGHT LBS
JB-12	JB-12	15"	10"	21"	18"	3"	21"	10"	12"x12"x1"	180
JB-14	JB-14	20"	14"	28"	24"	4"	3"	12"	14"x14"x1 1/2"	600
JB-18	JB-18	24"	18"	34"	30"	4"	4"	15"	18"x18"x1 1/2"	1,000
JB-20	JB-20	26"	18"	34"	30"	4"	4"	17"	20"x20"x1 1/2"	1,335
JB-24	JB-24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	2,245
JB-27	JB-27	37"	25"	42"	36"	6"	6"	24"	27"x27"x2"	2,875
JB-30	JB-30	42"	30"	42"	36"	6"	6"	30"	32"x32"x2"	3,675
JB-36	JB-36	48"	36"	42"	36"	6"	6"	32"	36"x36"x2"	4,585
JB-48	JB-48	60"	48"	54"	48"	6"	6"	44"	36"x36"x2"	7,395

1. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.



SPECIFICATIONS

CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

COVER & FRAME: All steel fabrication shall be in accordance to AWA D1.1. Steel shall be ASTM A36 carbon steel, and hot-dipped galvanized after fabrication in accordance to ASTM A123

PROJECT: 888-611-PARK
CUSTOMER: www.park-usa.com
ENGINEER: PARK
ORDER #: DESIGN FOR WATER
PROJ #: JUNCTION BOX
DATE: MODEL JB - 12" THRU 48"

FW DRN ENG REV
DATE 06/16 DWG. NO. JB-01 REV. A

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date: CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification. Signature Valid for six months.

Date: CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

Date: Approved for AT&T Texas / SWBT underground conduit facilities only. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: LAUREN J. MUDD, P.E.

P.E. Serial No.: 153971

Date: JANUARY 2026



QUIDDITY

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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26 DGN BY: JK
JOB NO: 00050-0099-01 DWG BY: JLG

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CIVIL DETAILS 13 OF 16

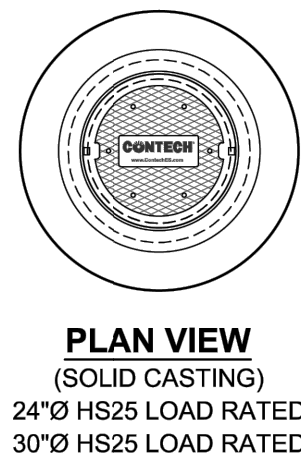
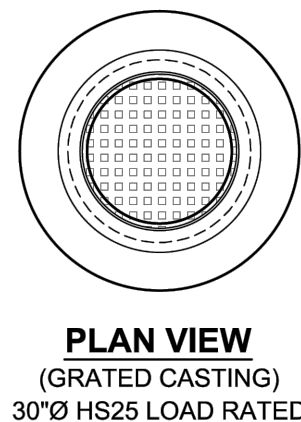
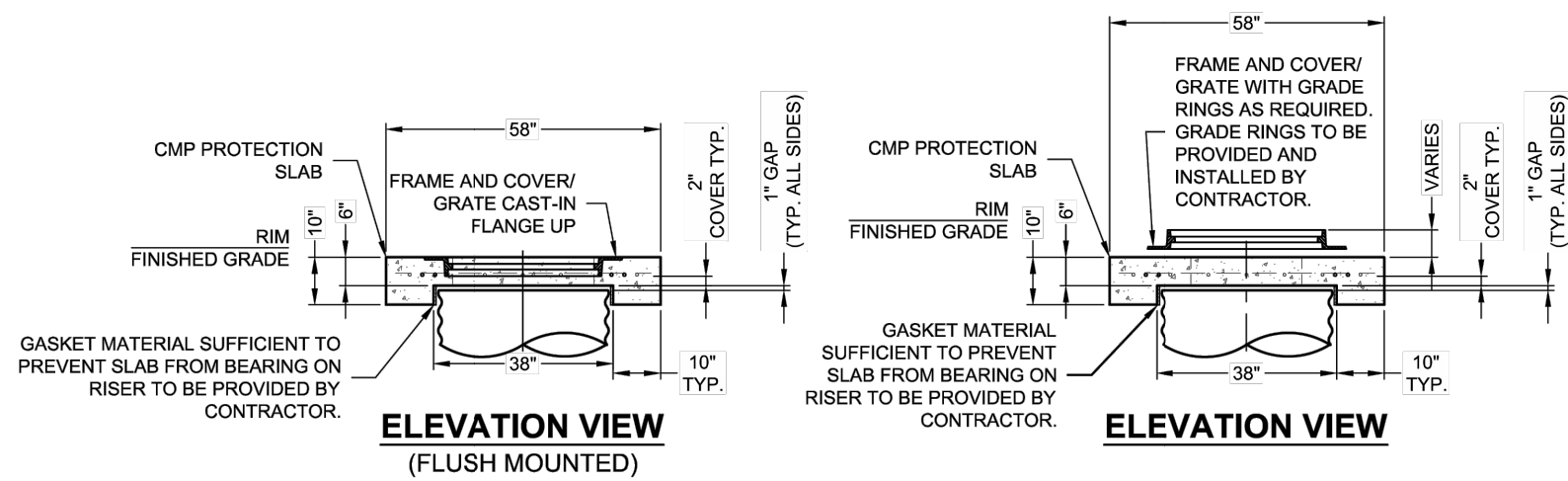
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: VERT:

CATEGORY NO. 0-C-34 SHEET NO. --- OF XX

FOR CITY OF HOUSTON USE ONLY

\\SOURCE\NET\CONTECH\COMMON\CAD\DETENTION\02 CMP DETENTION\REFERENCE\SEALY CMP MANHOLE CAP DETAIL.DWG 76 86 OD CMP RISER CAPS - SEALY, TX.DWG 2/23/2022 11:49 AM



CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

58" OD CMP RISER CAP
UP TO 36" RISERS
PRECASTER: SEALY, TX

CONTECH
CMP DETENTION SYSTEMS

- FABRICATION NOTES:
1. CONCRETE STRENGTH = 4,000 PSI
 2. REINFORCING STEEL - ASTM A615, GRADE 60, OR EQUIVALENT WELDED WIRE FABRIC.
 3. NICE LIGHT BROOM FINISH FOR UNITS W/ CAST-IN FRAME AND COVER
 4. LIFTERS IN SIDE FOR UNITS W/ CAST-IN FRAME AND COVER AND LIFTERS IN TOP SLAB FOR UNITS W/ SEPARATE COVER

- GENERAL NOTES:
1. DESIGN LOAD HS20/HS25
 2. EARTH COVER = 1' MAX
 3. RISER CAP MUST BE ADEQUATELY SUPPORTED WITH PROPER BEDDING AND BEARING PRESSURE OF 3350 PSF AS TO NOT TRANSFER LOADS ONTO RISER.
 4. HEAVY PICK WEIGHT = 1,900 LBS

DATE: 04/07/2021

SCALE: NONE

PROJECT No.:

SEQUENCE No.:

DRAWN: TJS

CHECKED: KMR

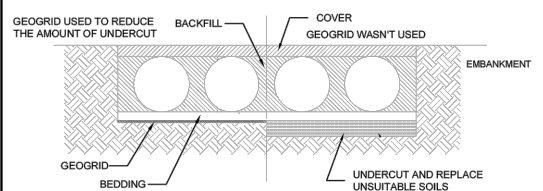
CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.

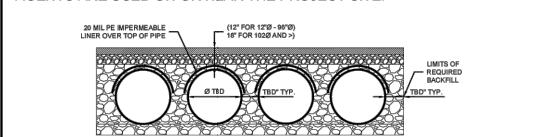


GRADE THE FOUNDATION SUBGRADE TO A UNIFORM OR SLIGHTLY SLOPING GRADE. IF THE SUBGRADE IS CLAY OR RELATIVELY NON-POROUS AND THE CONSTRUCTION SEQUENCE WILL LAST FOR AN EXTENDED PERIOD OF TIME, IT IS BEST TO SLOPE THE GRADE TO ONE END OF THE SYSTEM. THIS WILL ALLOW EXCESS WATER TO DRAIN QUICKLY, PREVENTING SATURATION OF THE SUBGRADE.

GEOMEMBRANE BARRIER

A SITE'S RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE.

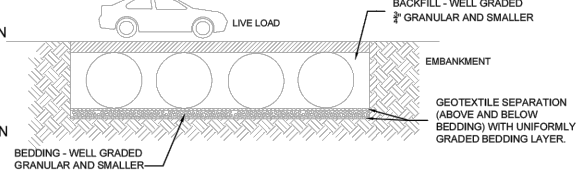
THE PROJECT'S ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGMENT TO DETERMINE IF ANY ADDITIONAL PROTECTIVE MEASURES ARE REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.



IN-SITU TRENCH WALL

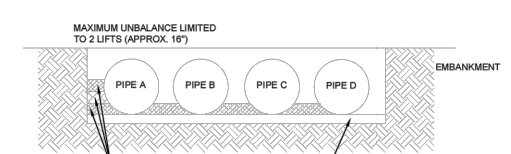
IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE BEARS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



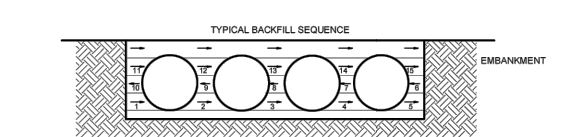
BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL, SLUICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

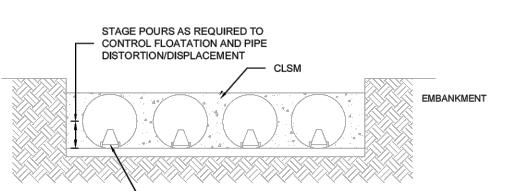


IF ASHSTO T89 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD OR REPRESENTATIVE THEREOF IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOSE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO A 10-FOOT HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.



WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET-UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE CLM, THE OPPOSING WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.

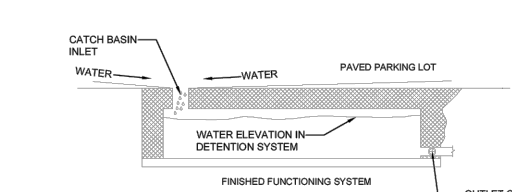


CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION, POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRAFFIC LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DIFFER MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS. IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HEAVY ACCUMULATION OF SEDIMENT OR CORROSIVE CORROSION CONDITIONS, A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM.

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALT/ROAD AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE FINISHED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIER WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown.
(Gas services lines are not shown). This signature not to be used for conflict verification.
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY.
(This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: LAUREN J. MUDD, P.E.

P.E. Serial No.: 153971

Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26 DGN BY: JK
JOB NO: 00050-0099-01 DWG BY: JLG

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

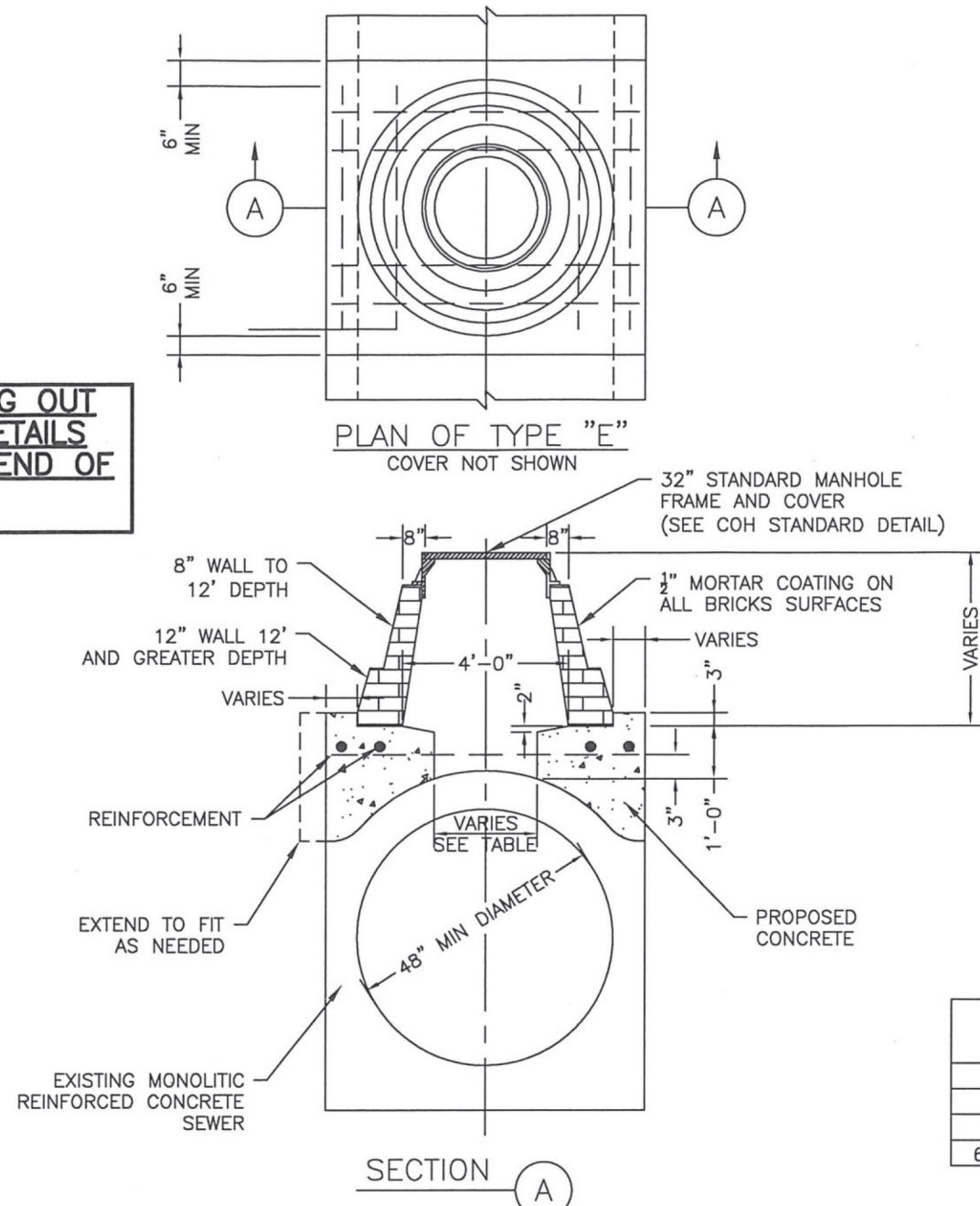
CIVIL DETAILS 15 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: VERT:
CATEGORY NO. **0-C-36** SHEET NO. --- OF XX
FOR CITY OF HOUSTON USE ONLY

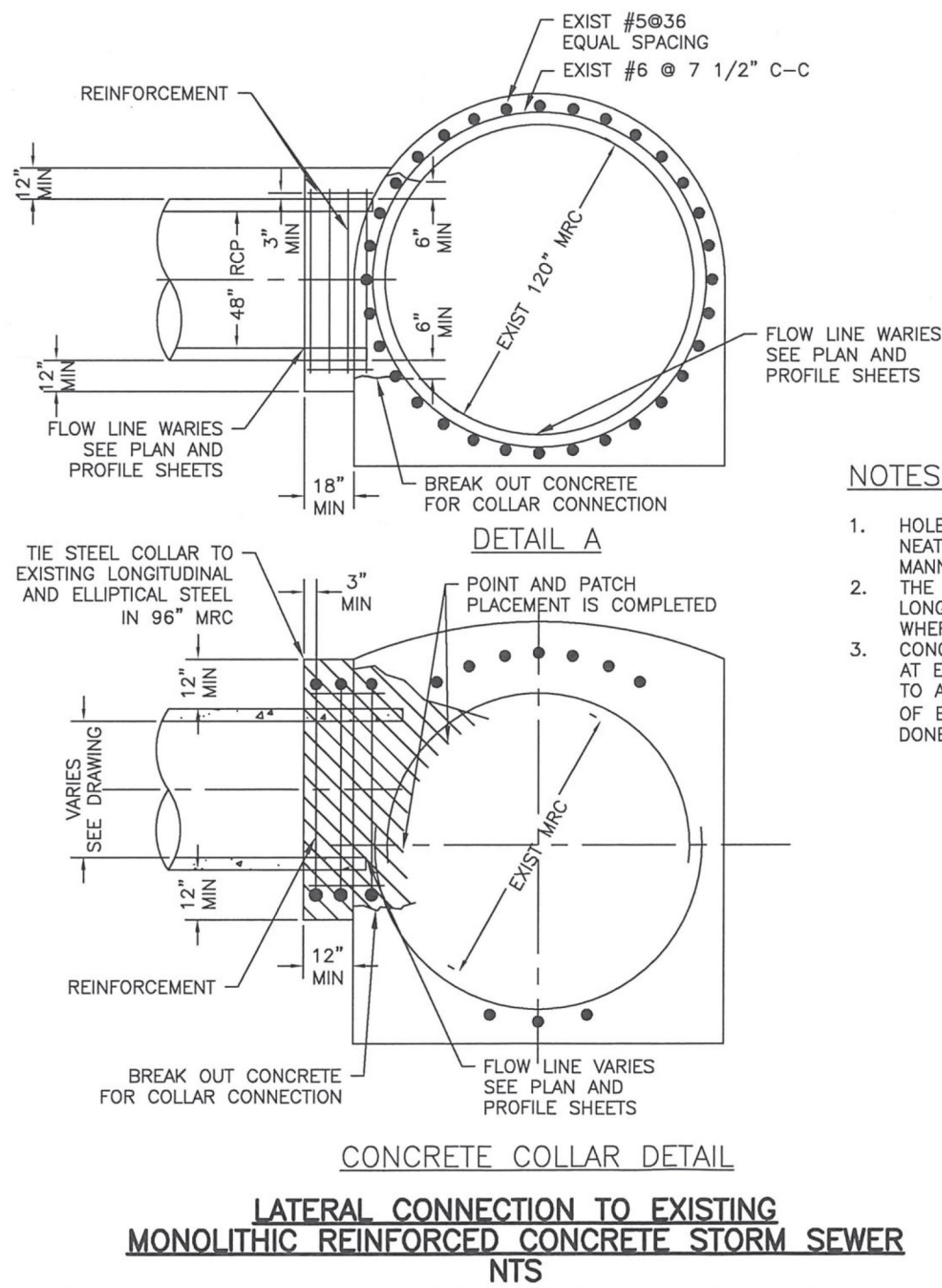
02081-05

COH IS PHASING OUT
BRICK. NEW DETAILS
TO BE POSTED END OF
2019



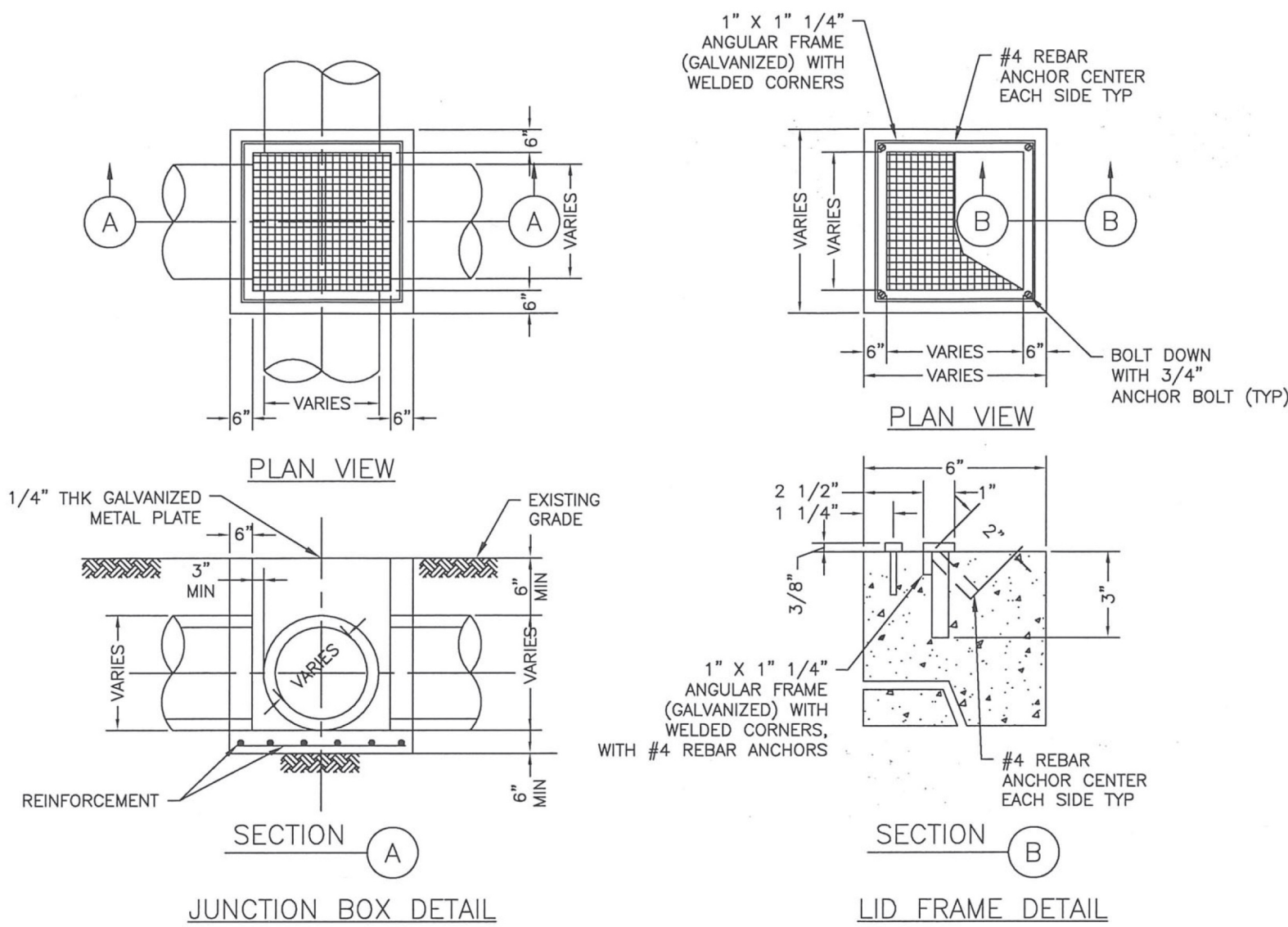
STORM SEWER MANHOLE TYPE 'E' FOR EXISTING MONOLITHIC
REINFORCED CONCRETE 48" DIAMETER AND GREATER
NTS

02081-07



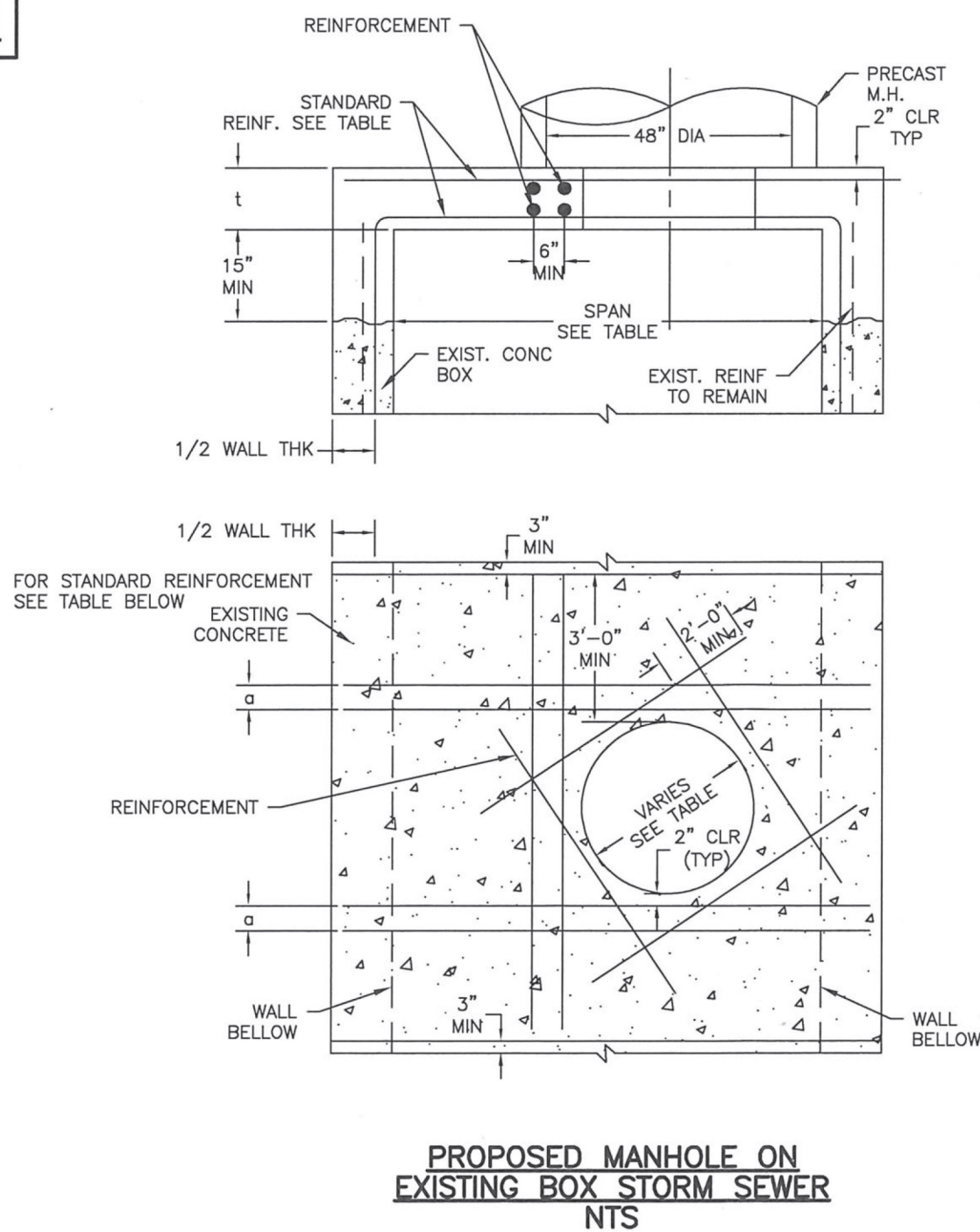
CONCRETE COLLAR DETAIL
LATERAL CONNECTION TO EXISTING
MONOLITHIC REINFORCED CONCRETE STORM SEWER
NTS

02081-06



STORM SEWER
JUNCTION BOX WITH LID OR GRATE TOP
FOR MAXIMUM OF 24" DIAMETER STORM SEWER
NTS

02081-08



PROPOSED MANHOLE ON
EXISTING BOX STORM SEWER
NTS

NOTES:

1. DETAIL TO BE USED WHERE STORM SEWER SIZE IS 24" DIA OR LESS.
2. FOR SEWER GREATER 24" DIA USE TYPE 'C' MANHOLE.

NOTES TO SPECIFIER:

1. WALL TO BE 6" CONCRETE. NOT TO BE USED IN STREET. FOR AREA BETWEEN CURB AND PROPERTY LINE ONLY.
- 2.

FIRM INFORMATION
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02081-05 THROUGH 08

APPROVED BY: [Signature]
CITY ENGINEER

APPROVED BY: [Signature]
DEPUTY DIRECTOR

EFFECTIVE DATE: JUL-01-2019
FOR CITY OF HOUSTON USE ONLY

SHEET NO.

NOTICE:
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Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

NO. DATE REVISIONS APP.

INTERIM REVIEW
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Engineer: LAUREN J. MUDD, P.E.
P.E. Serial No.: 153971
Date: JANUARY 2026

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CITY OF HOUSTON
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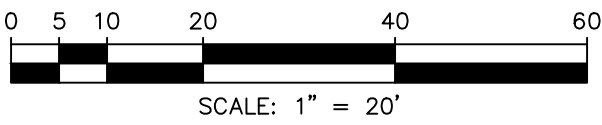
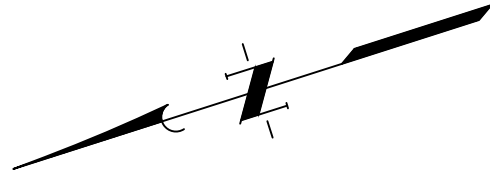
CIVIL DETAILS 16 OF 16

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE HORIZ: VERT:
CATEGORY NO. 0-C-37 SHEET NO. ---OF XX
FOR CITY OF HOUSTON USE ONLY

CITY OF HOUSTON PUBLIC WORKS SWPPP CONSTRUCTION NOTES:

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEPED BACK INTO THE EXCAVATED AREA.
- CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
- CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
 - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - STRUCTURAL CONTROL MEASURES.
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.



BENCH MARK
A BRASS DISC STAMPED "RM 070215" LOCATED AT THE END OF YAUPON HOLLY LANE AT ITS INTERSECTION WITH EASTERN REDBUD LANE, ON TOP OF A "B-B" INLET AT THE NORTHWEST CORNER OF THE INTERSECTION. ELEVATION = 64.76 FEET NAVD 88 (2001 ADJUSTMENT)

I.B.M. "A"
A CHISELED SQUARE ON THE BULL NOSE OF THE ESPLANADE LOCATED ON WEST LAKE HOUSTON PARKWAY APPROXIMATELY 970 FEET NORTH OF THE CENTERLINE INTERSECTION OF SUMMER LAKE RANCH DRIVE AND WEST LAKE HOUSTON PARKWAY. ELEVATION = 55.34 FEET NAVD 88 (2001 ADJUSTMENT)

I.B.M. "B"
A CHISELED SQUARE ON TOP OF A "B-B" INLET AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SUMMER LAKE RANCH DRIVE AND WEST LAKE HOUSTON PARKWAY. ELEVATION = 53.67 FEET NAVD 88 (2001 ADJUSTMENT)

100-YEAR FLOOD PLAIN
THIS TRACT LIES WITHIN UNSHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY OF CITY OF HOUSTON, MAP NO. 48201C0880M, PANEL 0880 OF 1150, SUFFIX "M" DATED JANUARY 6, 2017, FOR HARRIS COUNTY TEXAS AND INCORPORATED AREAS. UNSHADED ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

LEGEND

- CTW CONCRETE TRUCK WASHOUT
- X — RFB — X REINFORCED FILTER FABRIC BARRIER
- IPB INLET PROTECTION BARRIER FOR STAGE II INLETS
- SC STABILIZED CONSTRUCTION ENTRANCE
- PROPERTY LINE

NOTES:

- SEE SHEET 0-C-33 FOR COH SWPPP DETAILS.

NOTICE:

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(Gas service lines are not shown). This signature not to be used for conflict verification.
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Approved for AT&T Texas / SWBT underground conduit facilities only.
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NO.	DATE	REVISIONS	APP.
-----	------	-----------	------

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.
Engineer: LAUREN J. MUDD, P.E.
P.E. Serial No.: 153971
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 26 DGN BY: JK
JOB NO: 00050-0099-01 DWG BY: JLG

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SCOTT STREET No. 1
LIFT STATION REHABILITATION

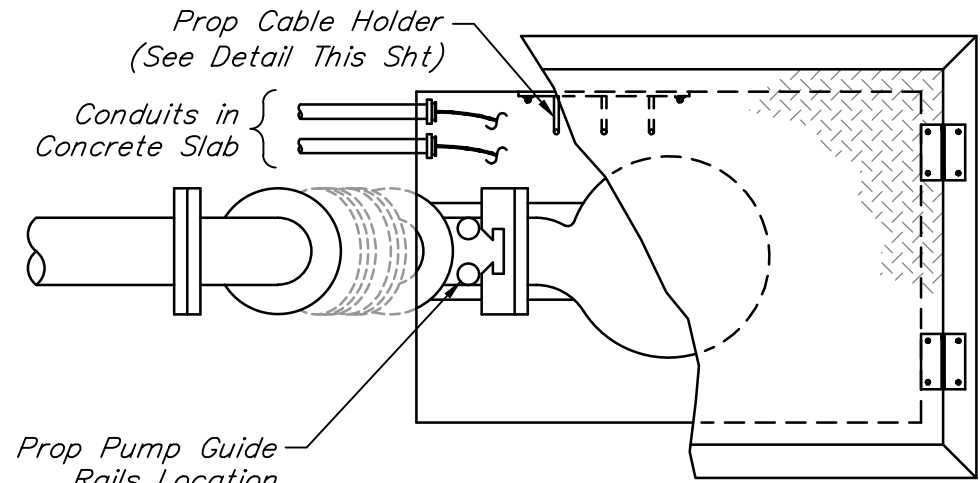
STORM WATER POLLUTION
PREVENTION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

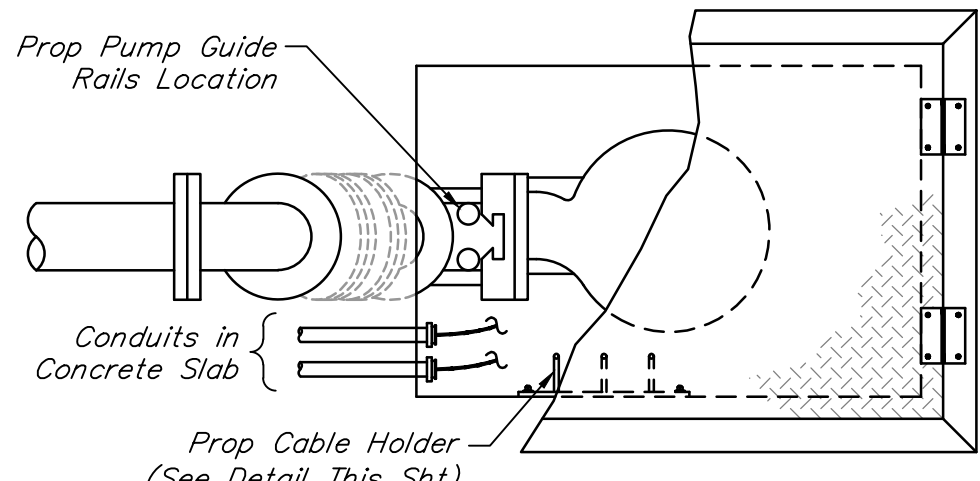
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CATEGORY NO. 0-C-38 SHEET NO. ---OF XX

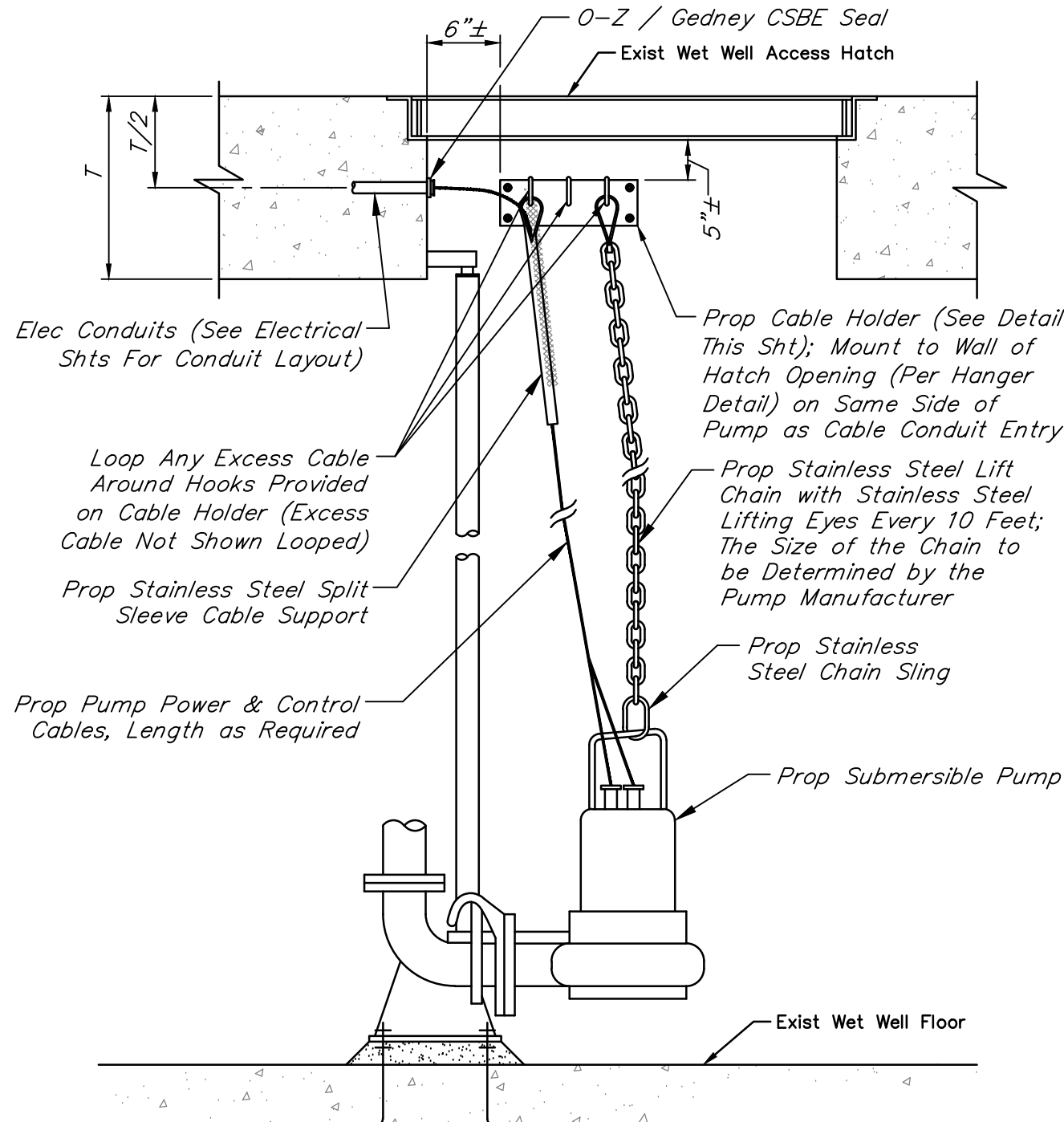
FOR CITY OF HOUSTON USE ONLY



PLAN VIEW ~ LEFT ORIENTATION



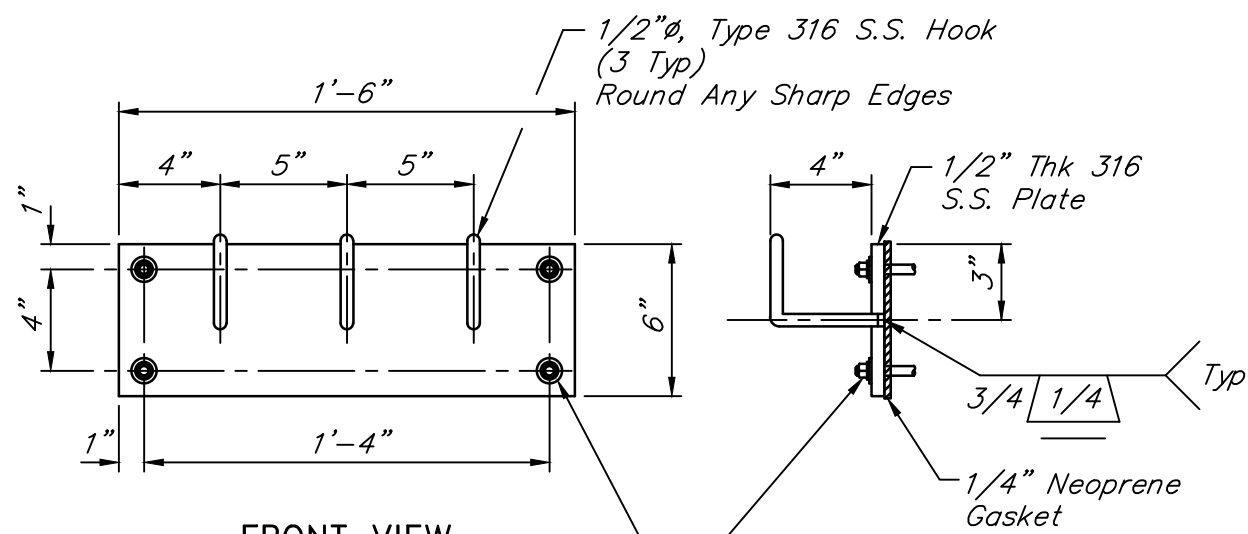
PLAN VIEW ~ RIGHT ORIENTATION



ELEVATION VIEW

TYPICAL PUMP LIFTING AND CABLING FOR NEW PUMP AND PIPING IN EXISTING WET WELL DETAIL

NOT TO SCALE



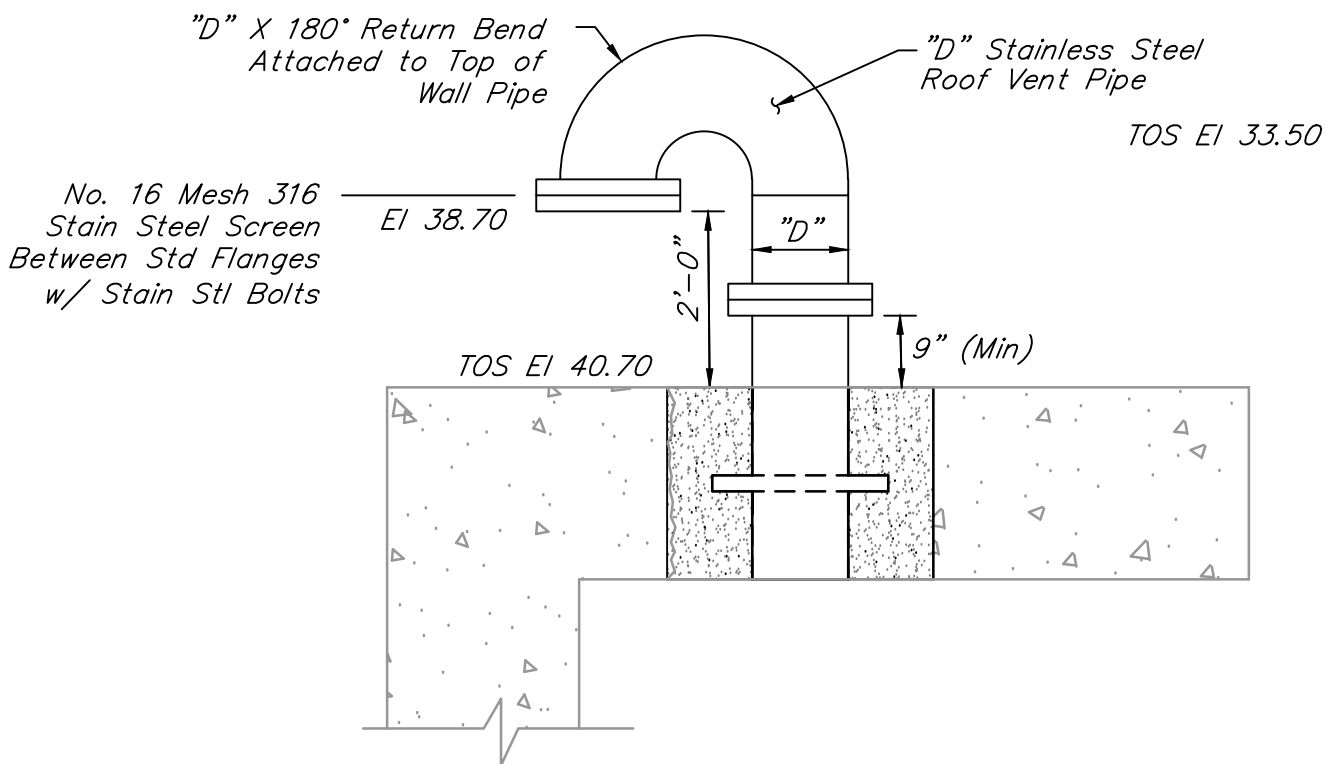
FRONT VIEW

SIDE VIEW

3/8"Ø Type 316 S.S. Conc Anchor Bolts & Hardware w/ Min 6" Embedment. Set 1/4" Neoprene Gasket on Wall Surface in Sika 1A (or Approved Equal) Sealant

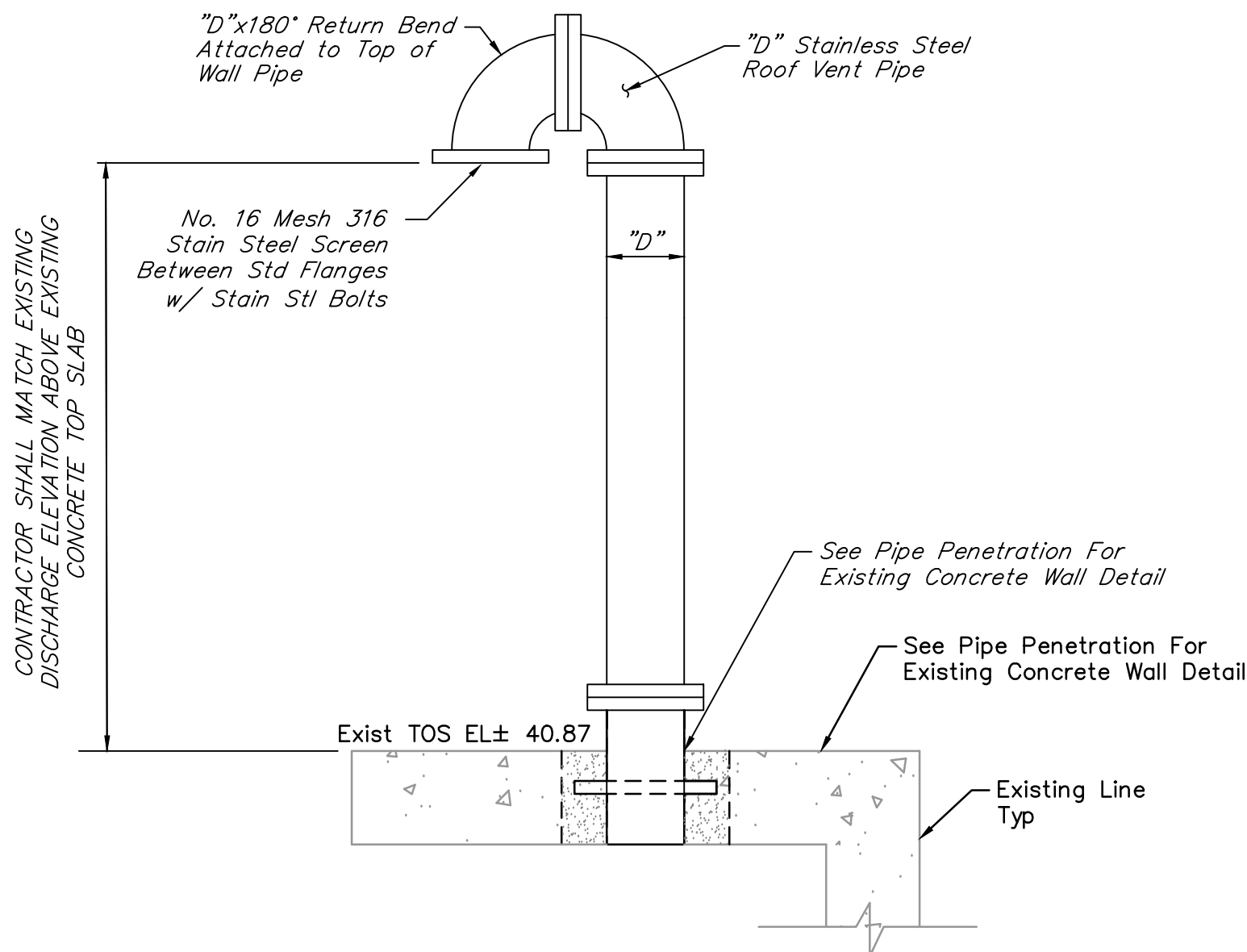
TYPICAL CABLE HOLDER ASSEMBLY DETAIL

NOT TO SCALE



DRY WEATHER WET WELL VENT DETAIL

NOT TO SCALE

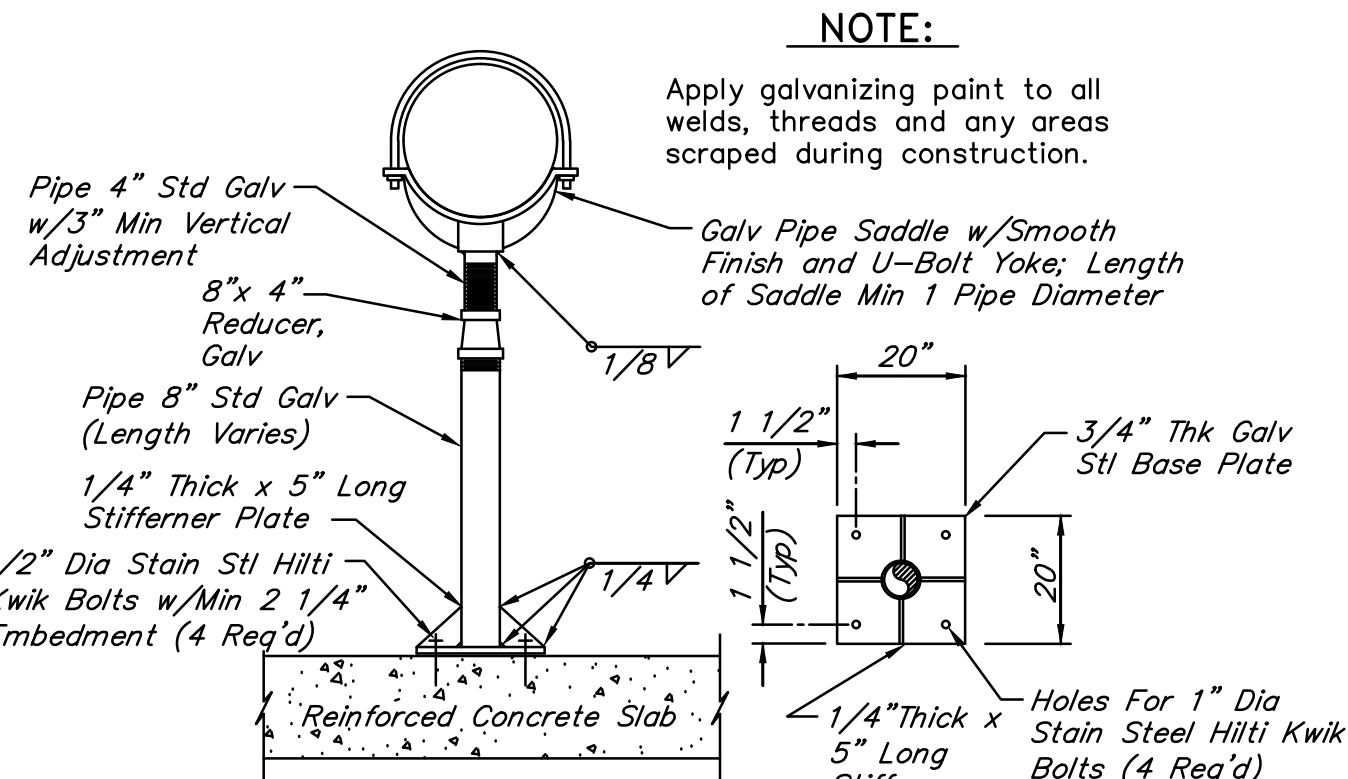


NOTE:

1. "D" is nominal pipe diameter shown on plans.

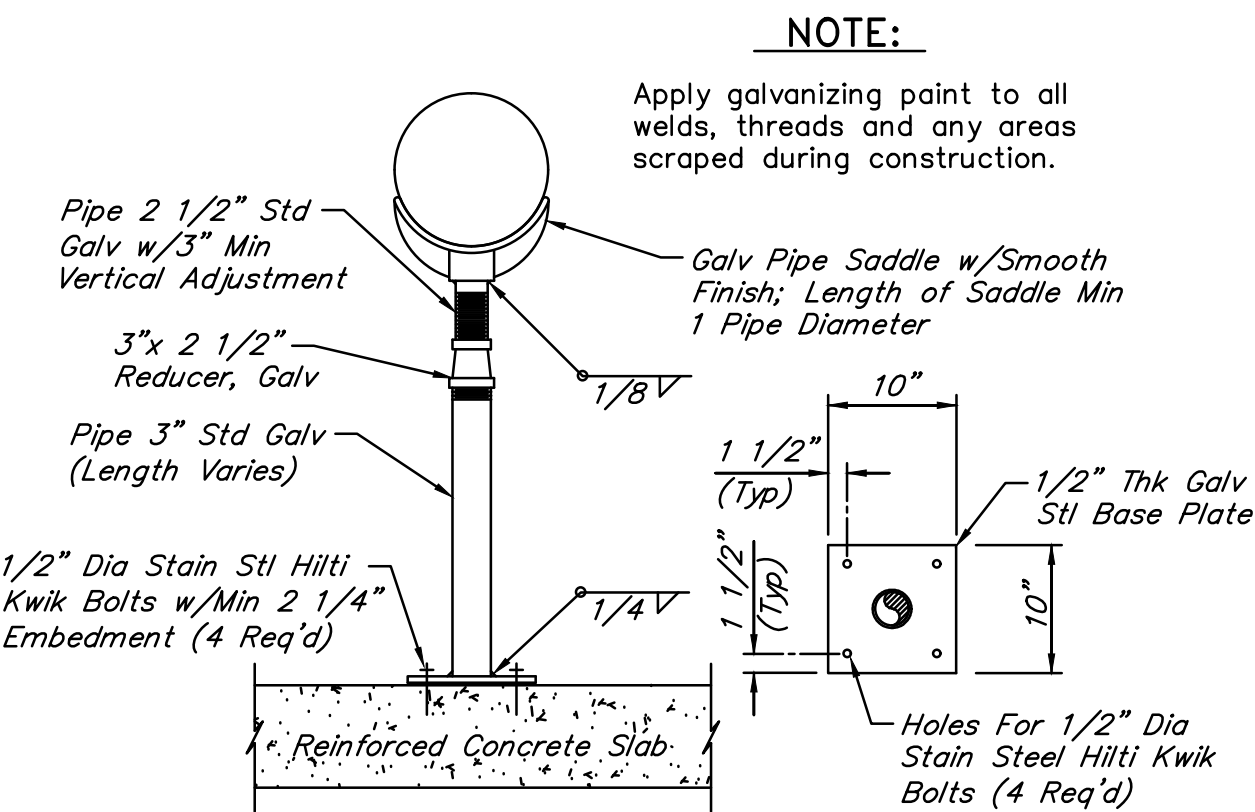
WET WEATHER WELL VENT DETAIL

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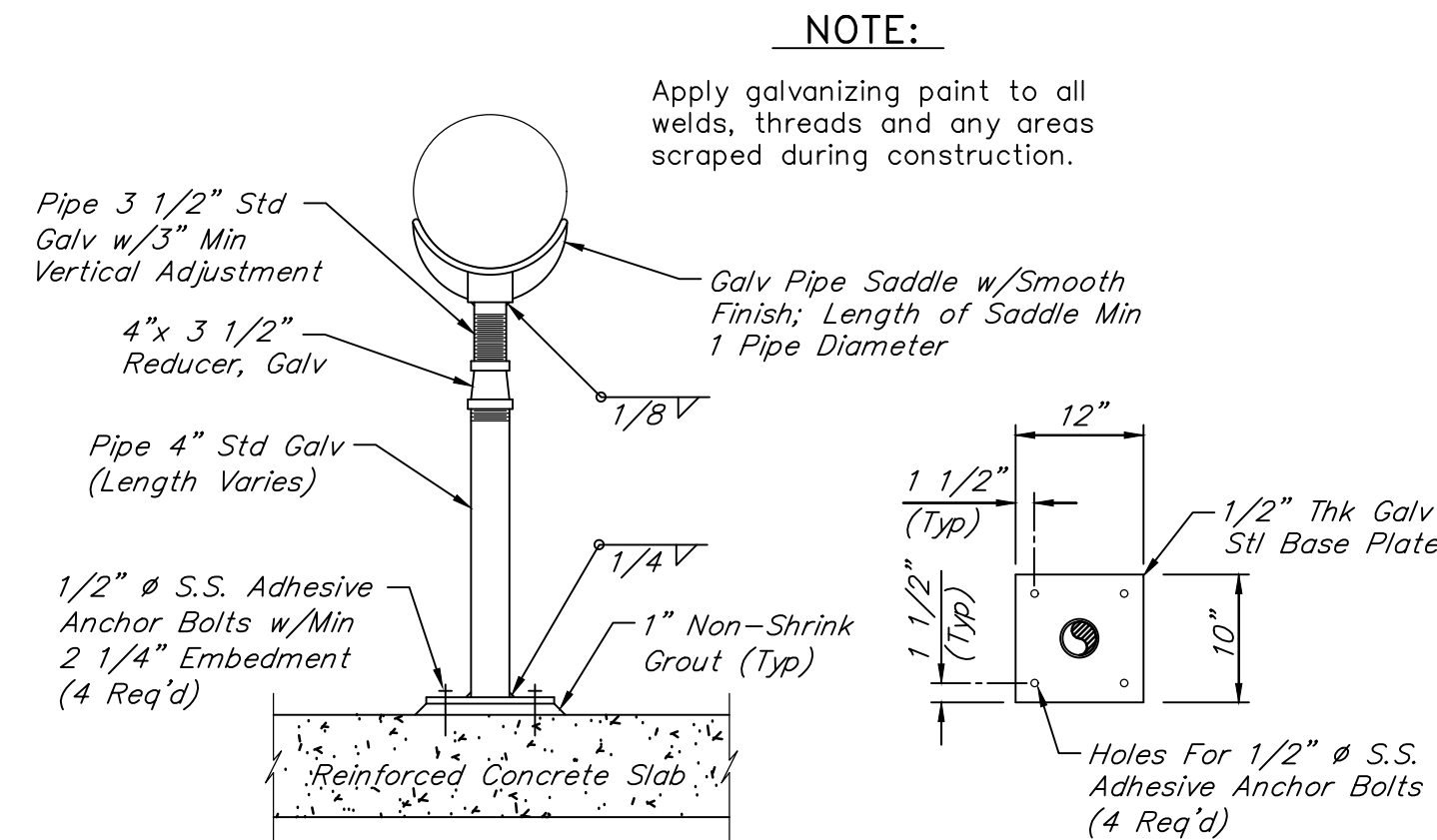
8" ADJUSTABLE STEEL PIPE SUPPORT WITH U-BOLT YOKE AND 20" BASE

NOT TO SCALE



3" ADJUSTABLE STEEL PIPE SUPPORT

NOT TO SCALE



ADJUSTABLE STEEL PIPE SUPPORT

NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: CRIMMINS
JOB NO: 00050-0099-01 DWG BY: DMOSSO

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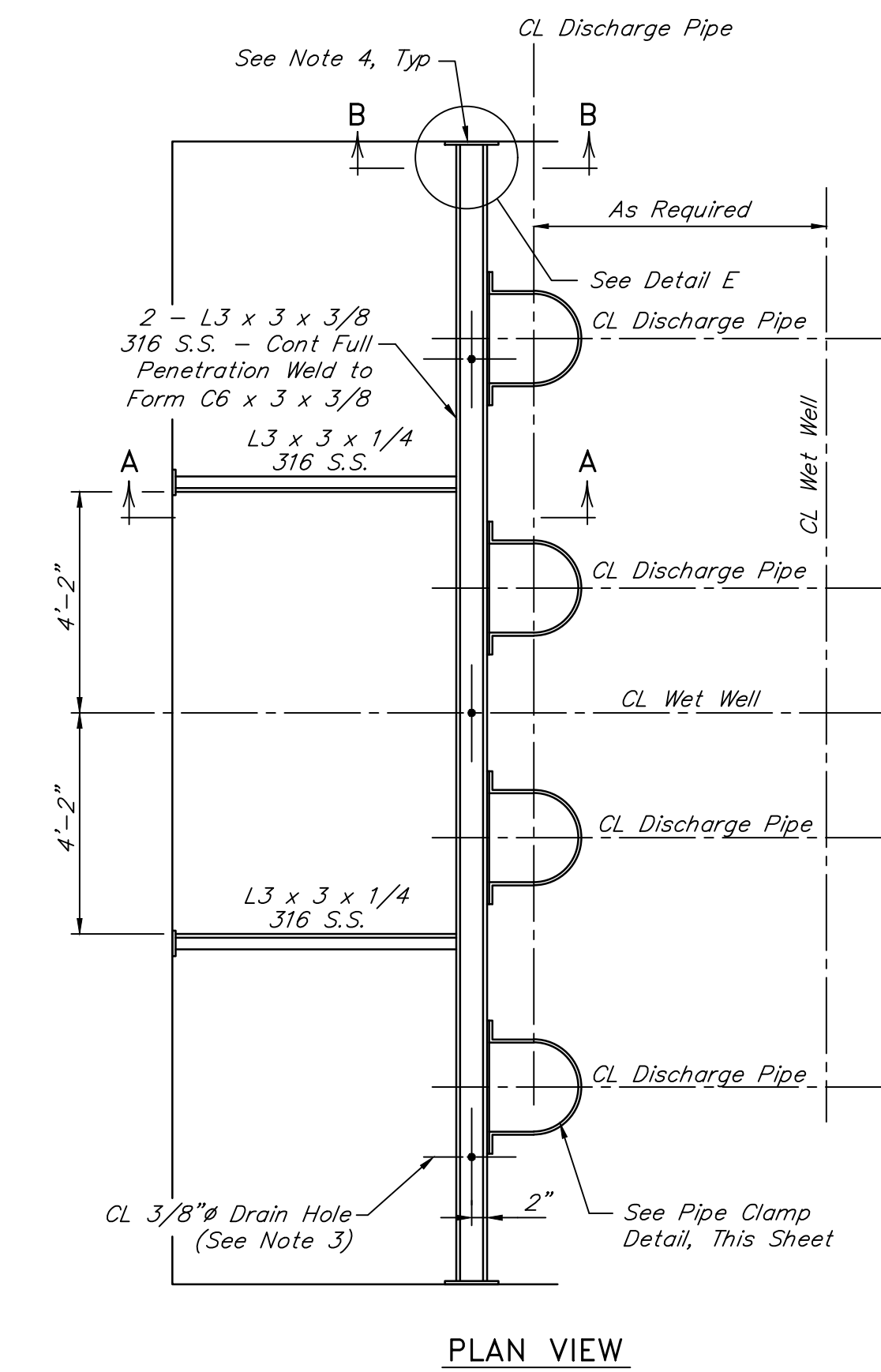
SCOTT STREET No. 1
LIFT STATION REHABILITATION

LIFT STATION
MECHANICAL DETAILS
SHEET 1 OF 2

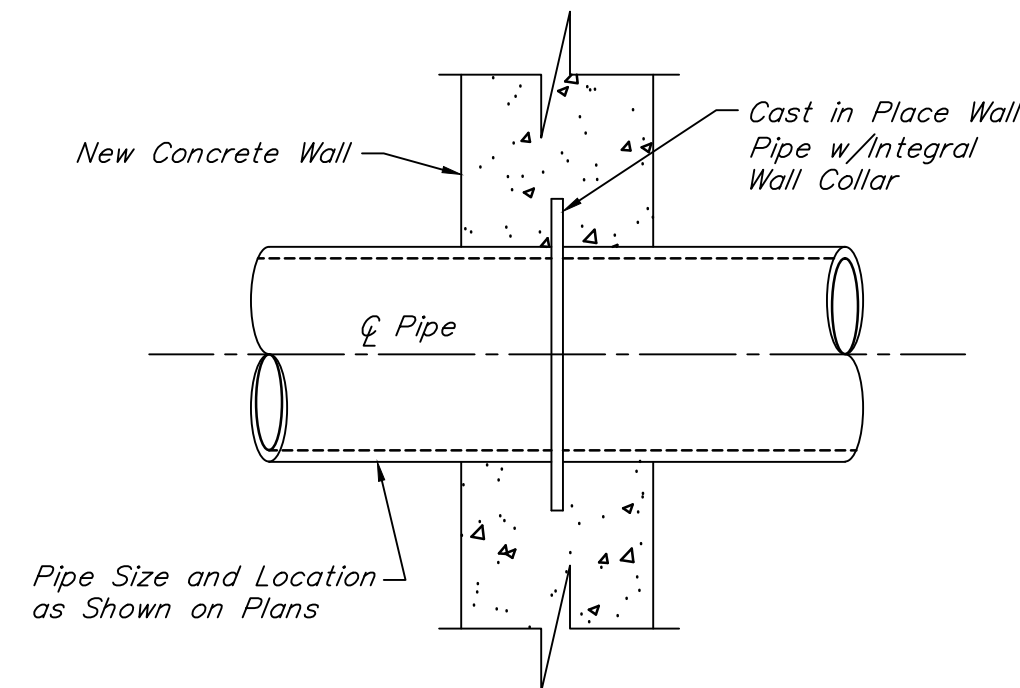
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX

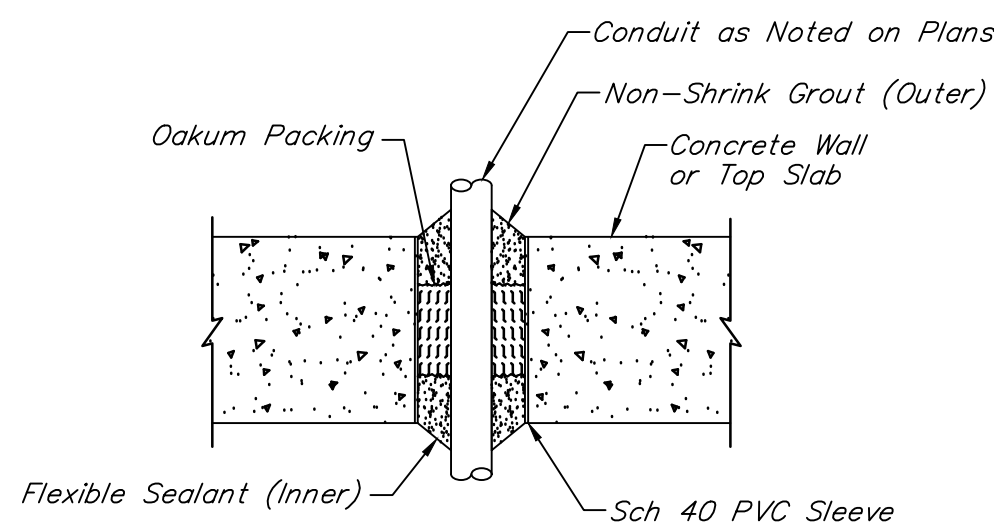
CATEGORY NO. 0-M-1 SHEET NO. 30 OF XXX
FOR CITY OF HOUSTON USE ONLY



TYPICAL DISCHARGE PIPING SUPPORT DETAIL FOR 4 PUMPS
NOT TO SCALE



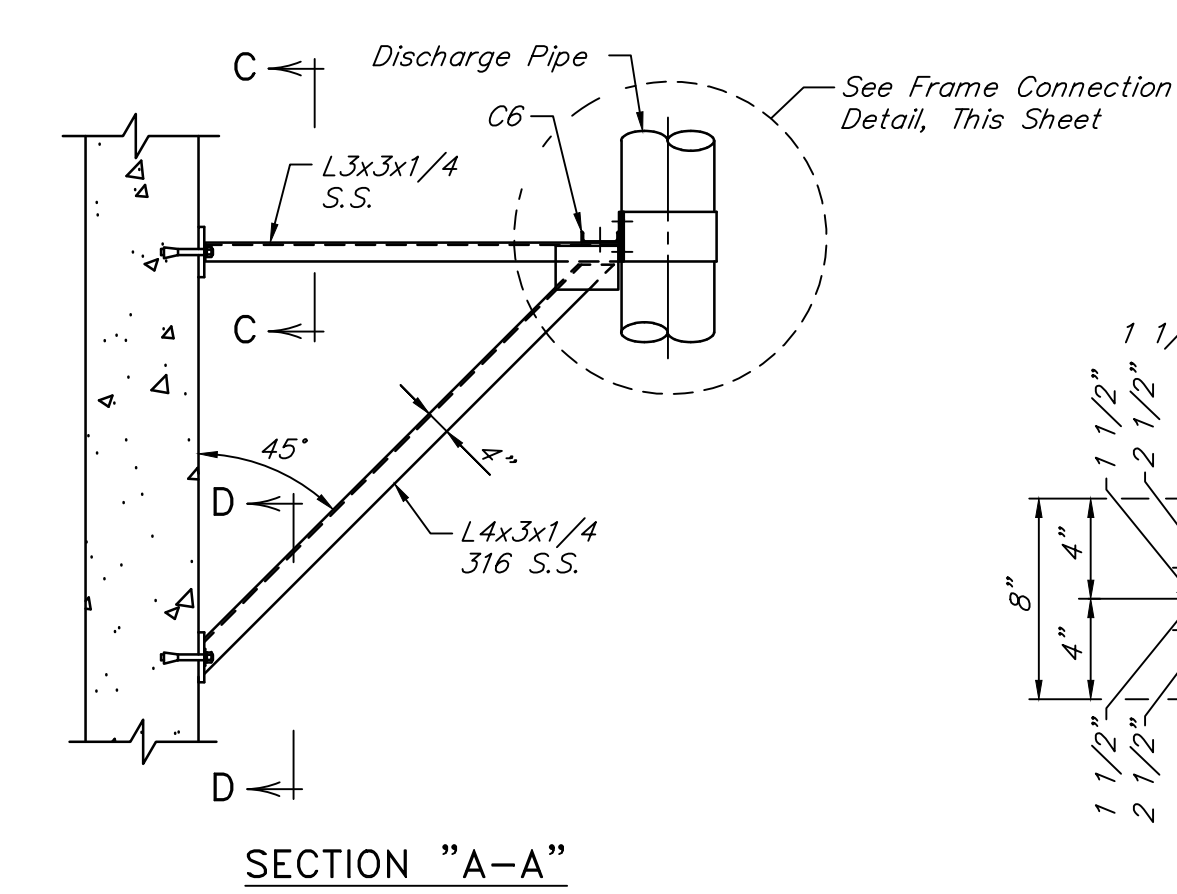
PIPE PENETRATION DETAIL
NOT TO SCALE



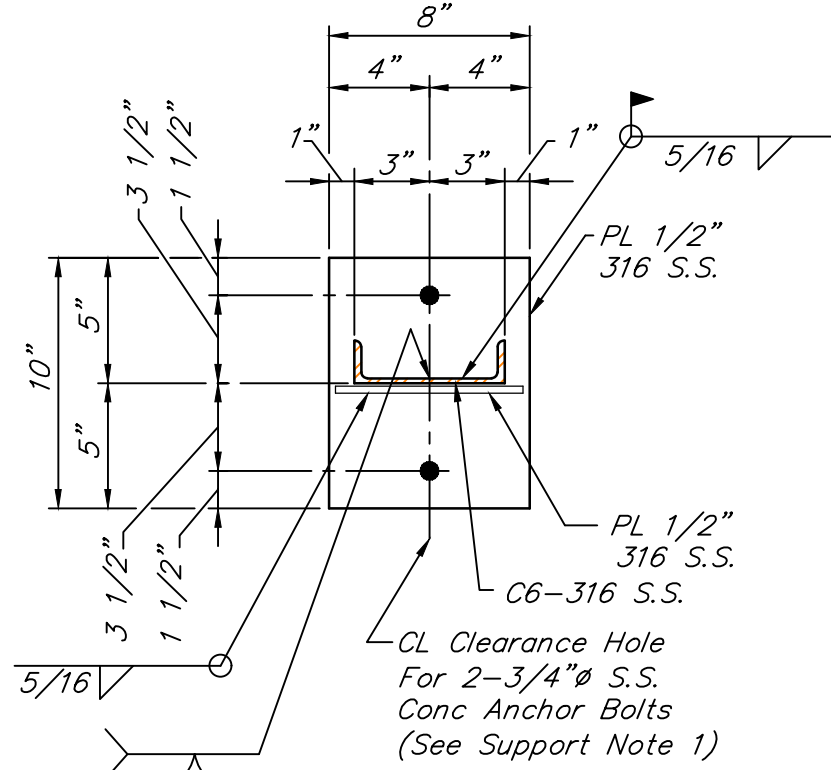
NOTE:

Sleeved wet well penetration is not to be used for conduit installation. See electrical detail sheets for conduit penetrations.

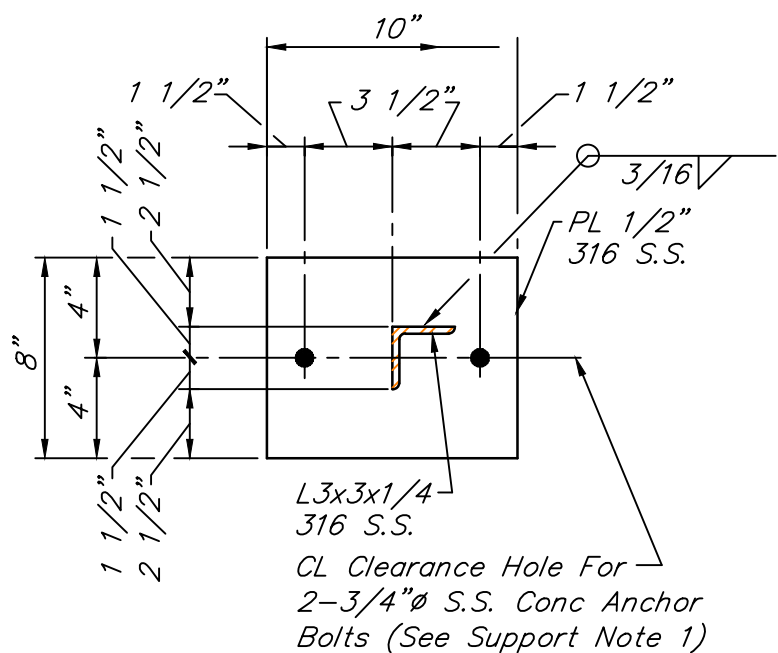
SLEEVED WET WELL PENETRATION DETAIL
NOT TO SCALE



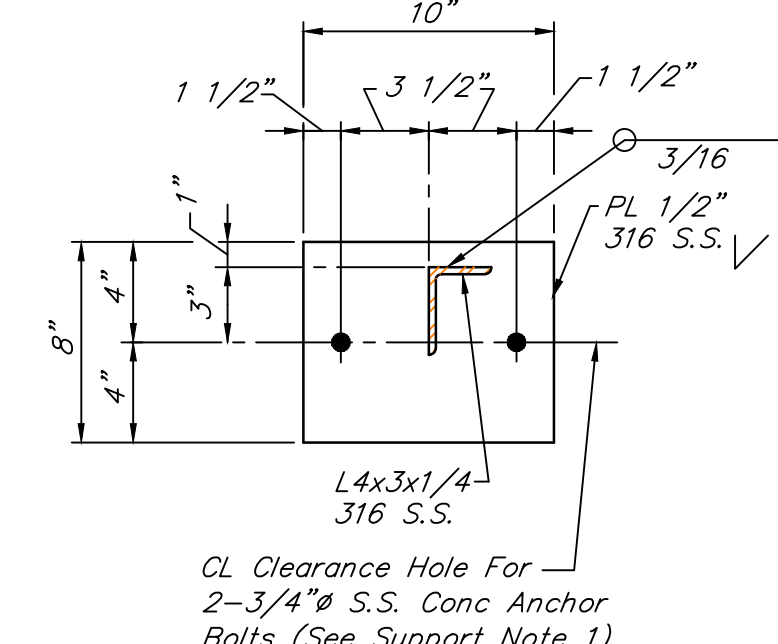
SECTION "A-A"



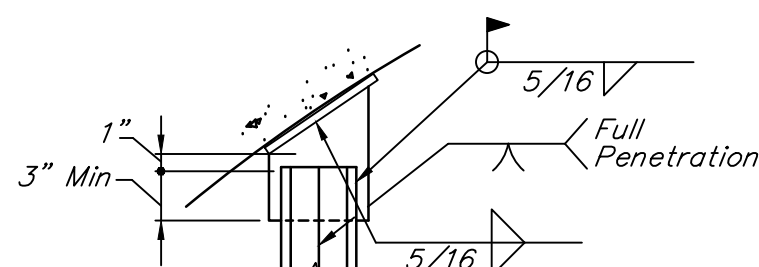
SECTION "B-B"



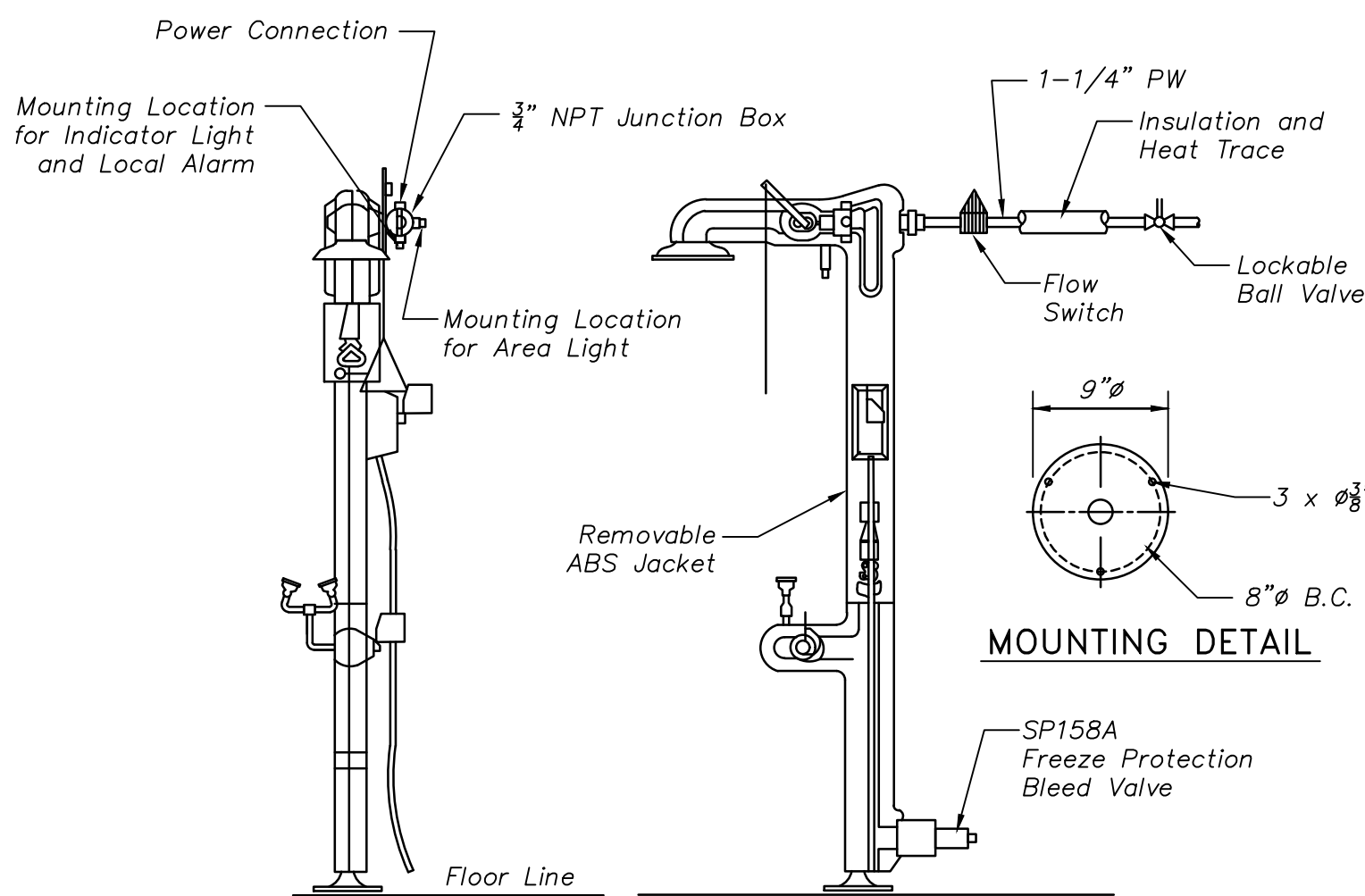
SECTION "C-C"



SECTION "D-D"



DETAIL E



NOTE:

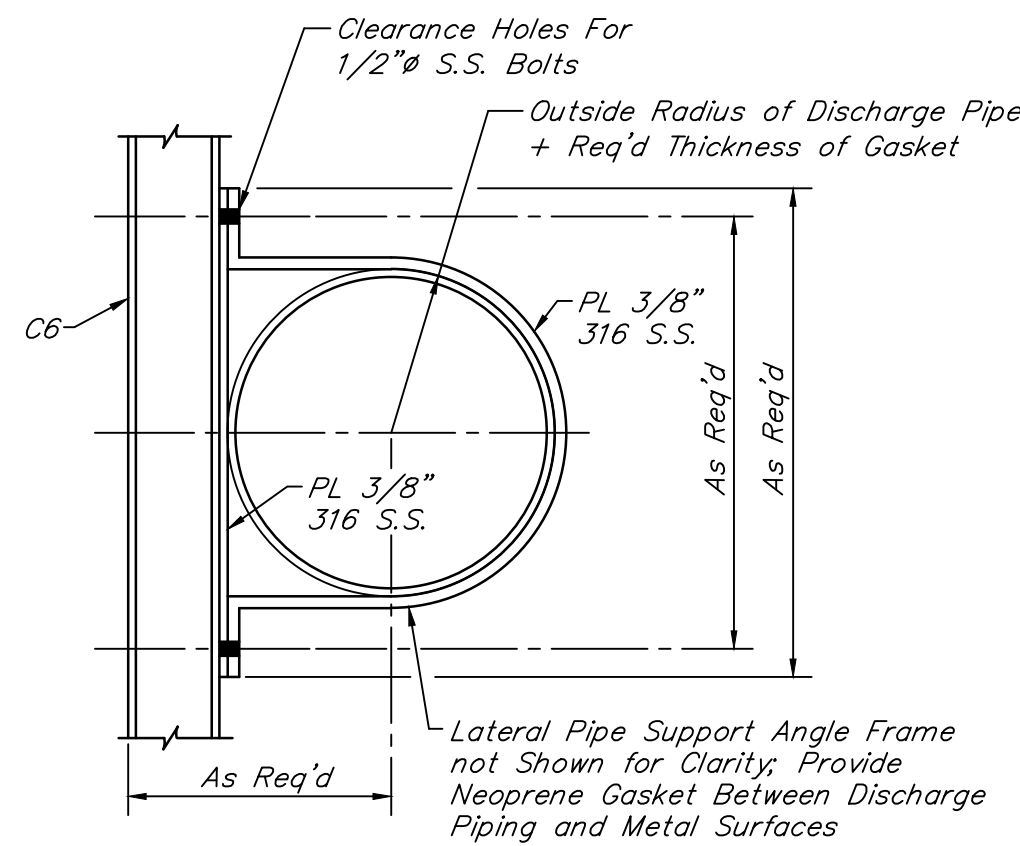
- At the Contractor's option and depending on location of water supply location, the water supply can be connected at either manufacturer provided supply connection, top or bottom.

IMPORTANT: POTABLE WATER SUPPLY MUST BE HEAT TRACED AND INSULATED

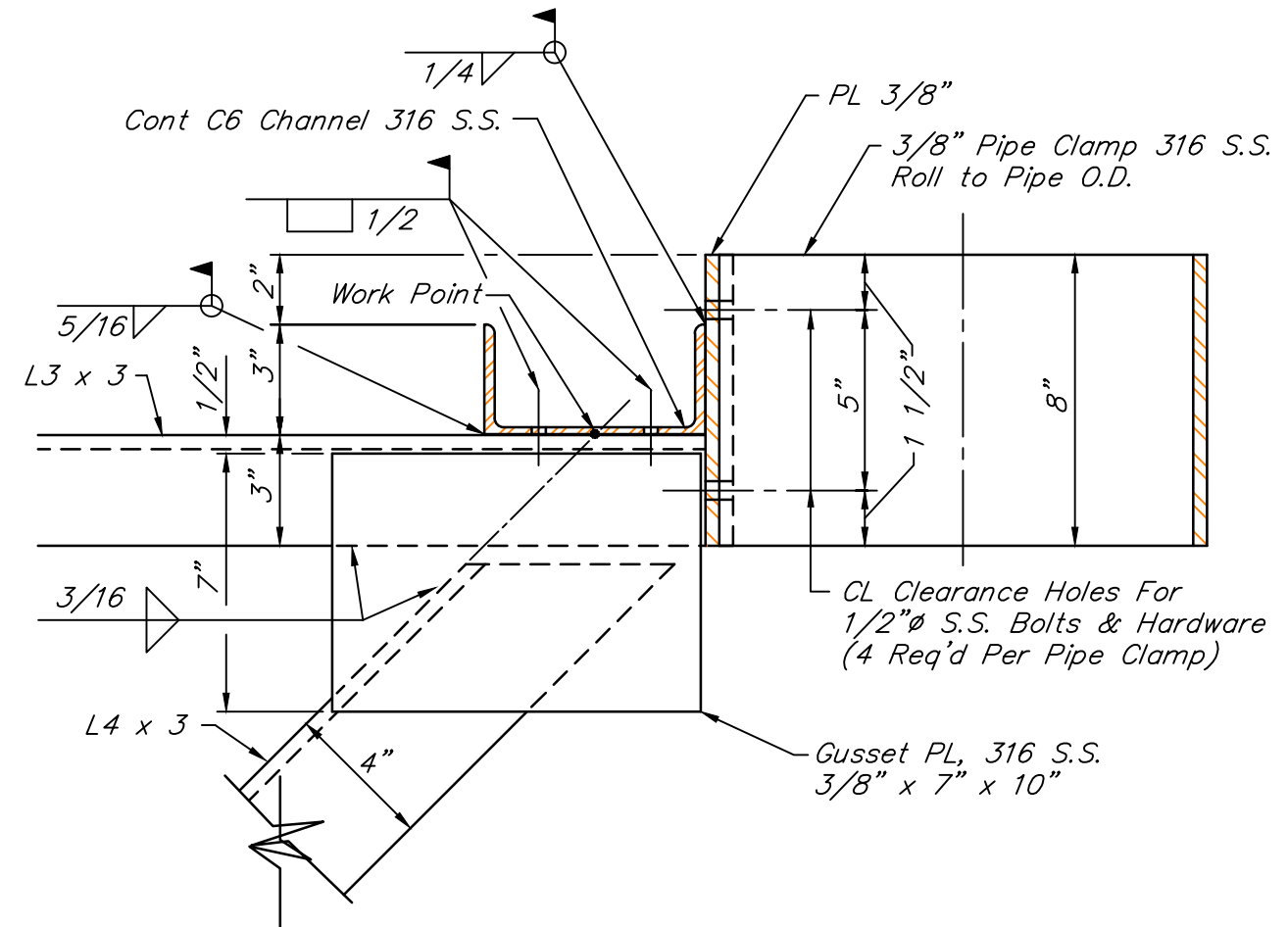
EMERGENCY SHOWER/EYEWASH DETAIL
NOT TO SCALE

NOTES:

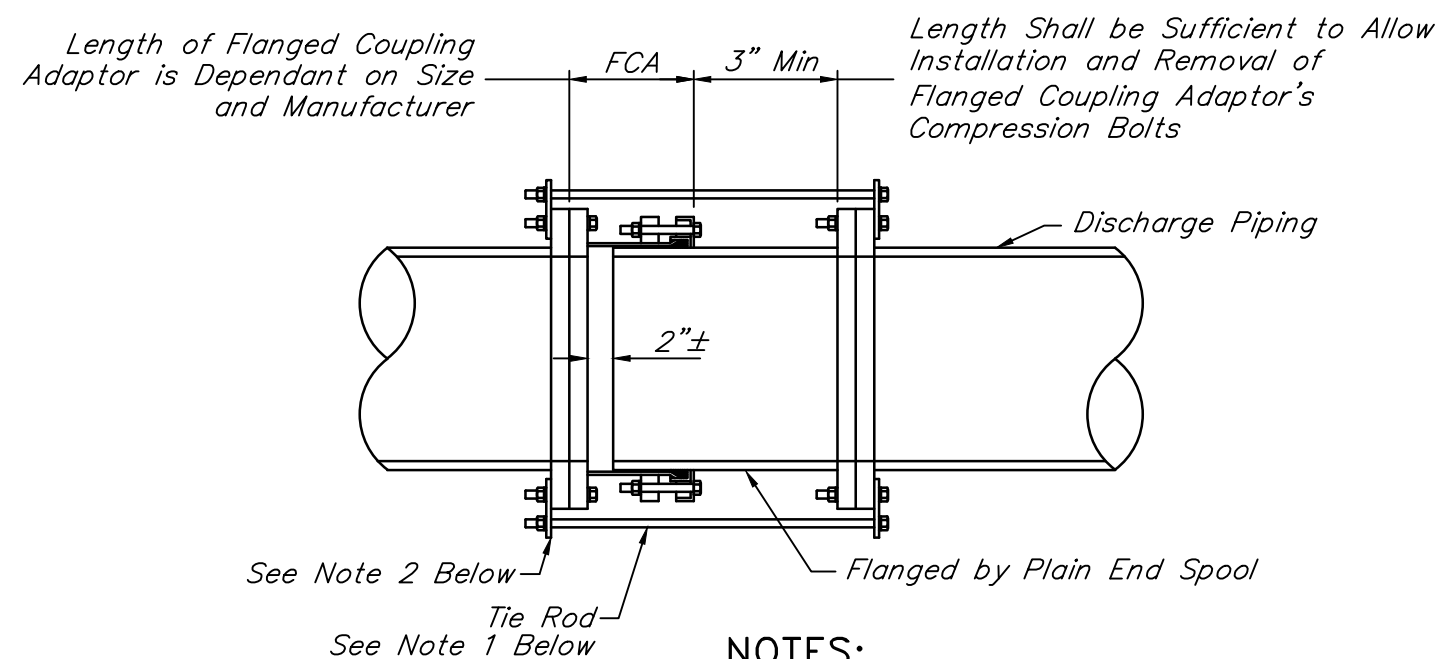
- Concrete anchor bolts shall have 6" minimum embedment and shall be type 316 stainless steel.
- See station and structural drawings for dimensions and information not shown.
- Drill 3/8" holes 1" off CL of C6 at midspan between lateral pipe supports to allow for drainage. Three (3) holes per channel where two (2) lateral supports required; Two (2) holes per channel where one (1) lateral support required.
- Set 1/4" neoprene gasket on wall surface in Sika 1A (or equal) sealant.



PIPE CLAMP DETAIL
NOT TO SCALE



FRAME CONNECTION DETAIL
NOT TO SCALE



NOTES:

- Provide a number of tie rods equal to 1/2 the number of flange bolts. Evenly space installation of tie rods. Diameter of tie rods to be equal to the diameter of flange bolts. Length of tie rods to be determined by Contractor based on size and manufacturer of flanged coupling adaptor and final length of spool piece.
- Provide 316 S.S. tab for attachment of tie rods. Size to be determined by Contractor.
- Contractor to submit details during shop drawing submission.
- All hardware shall be 316 stainless steel. Tie rods should be threaded.
- This restraint does not replace thrust blocks to be provided at other locations.

TYP FLANGED COUPLING
ADAPTOR RESTRAINT DETAIL
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

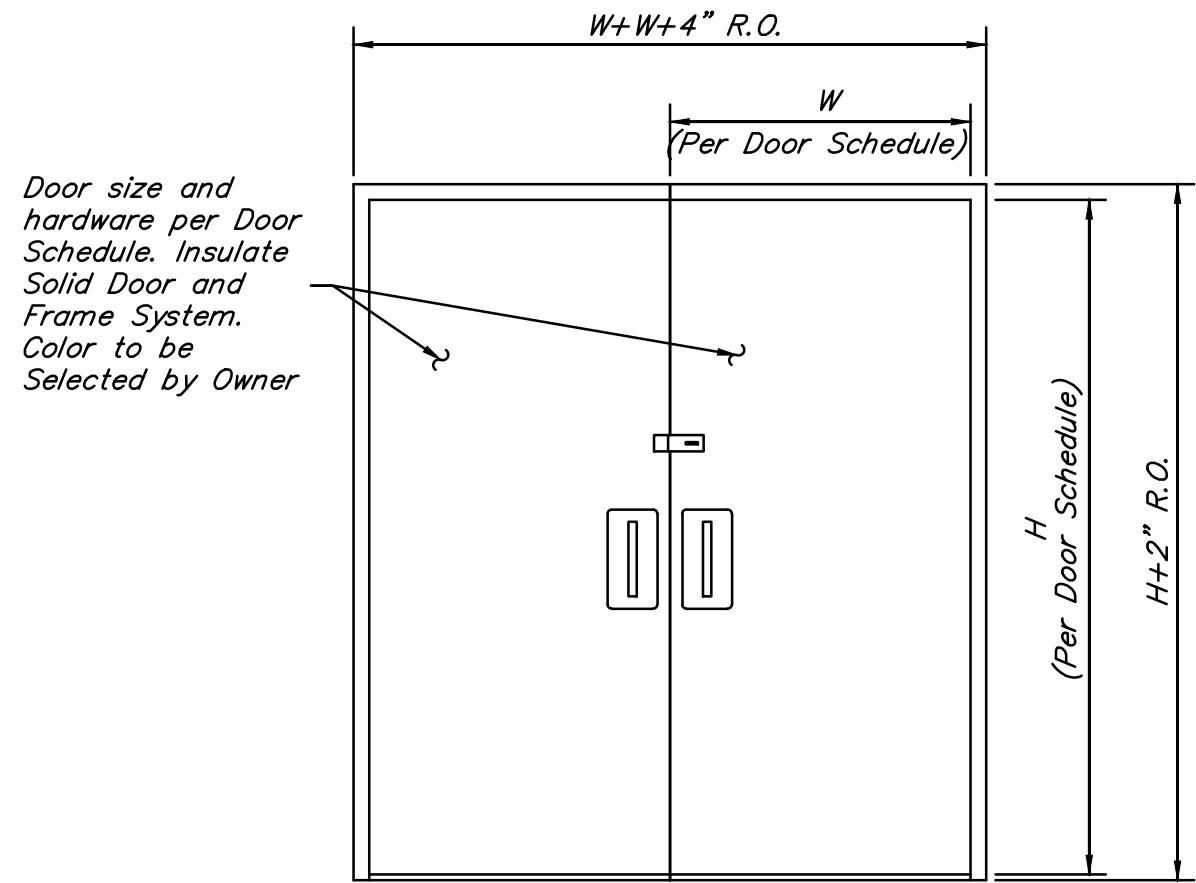
DATE: JANUARY 2026 DGN BY: ~~DRM/MLB/MLA~~
JOB NO: 00050-0099-01 DWG BY: DM/MSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

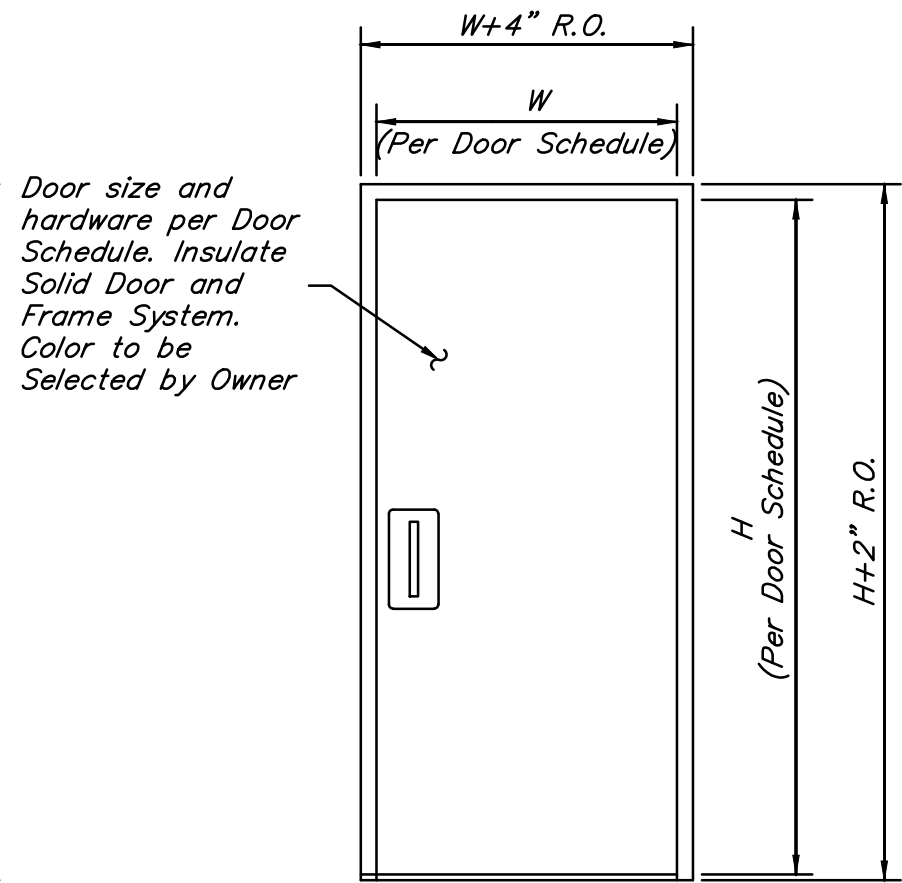
SCOTT STREET No. 1
LIFT STATION REHABILITATION
LIFT STATION
MECHANICAL DETAILS
SHEET 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

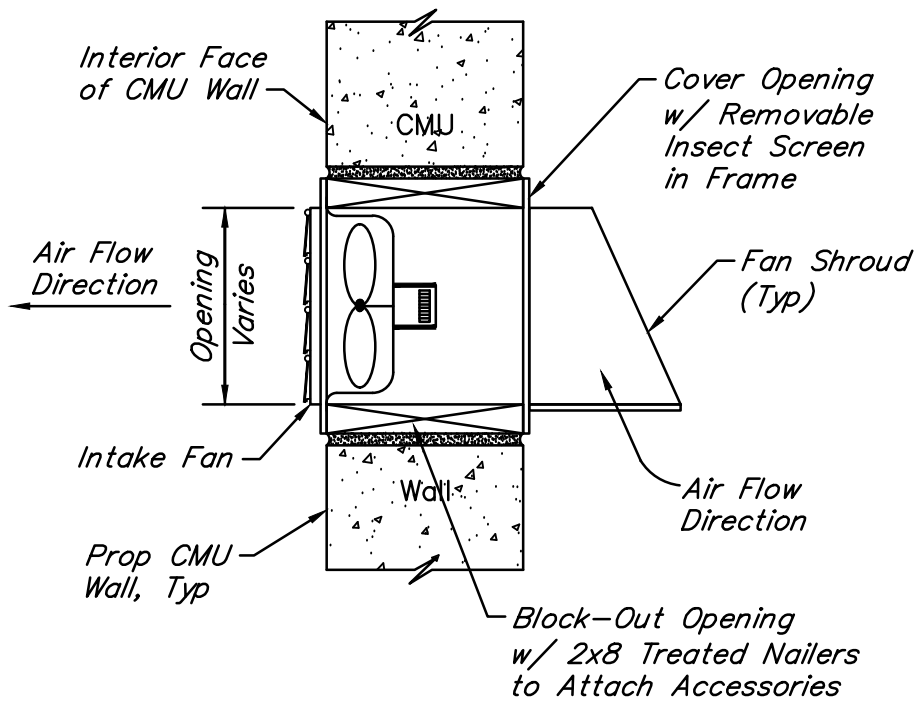
DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 0-M-2 SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY



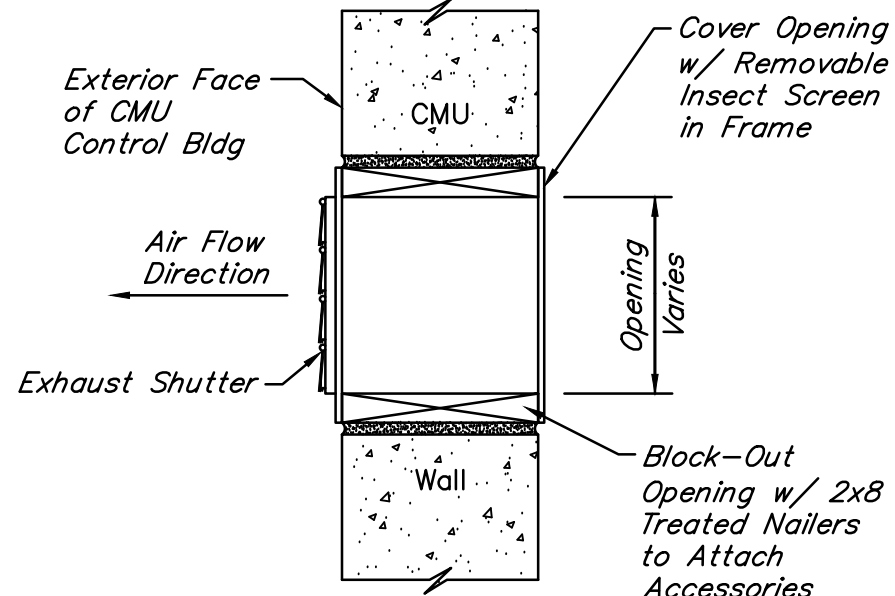
TYPICAL DUAL DOOR DETAIL
NOT TO SCALE



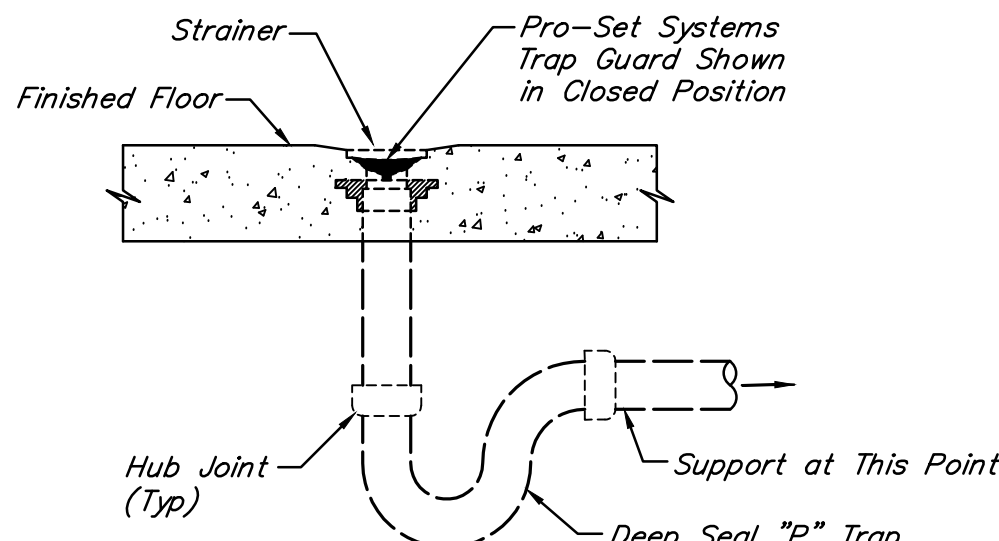
TYPICAL SINGLE DOOR DETAIL
NOT TO SCALE



INTAKE/SUPPLY FAN DETAIL
NOT TO SCALE



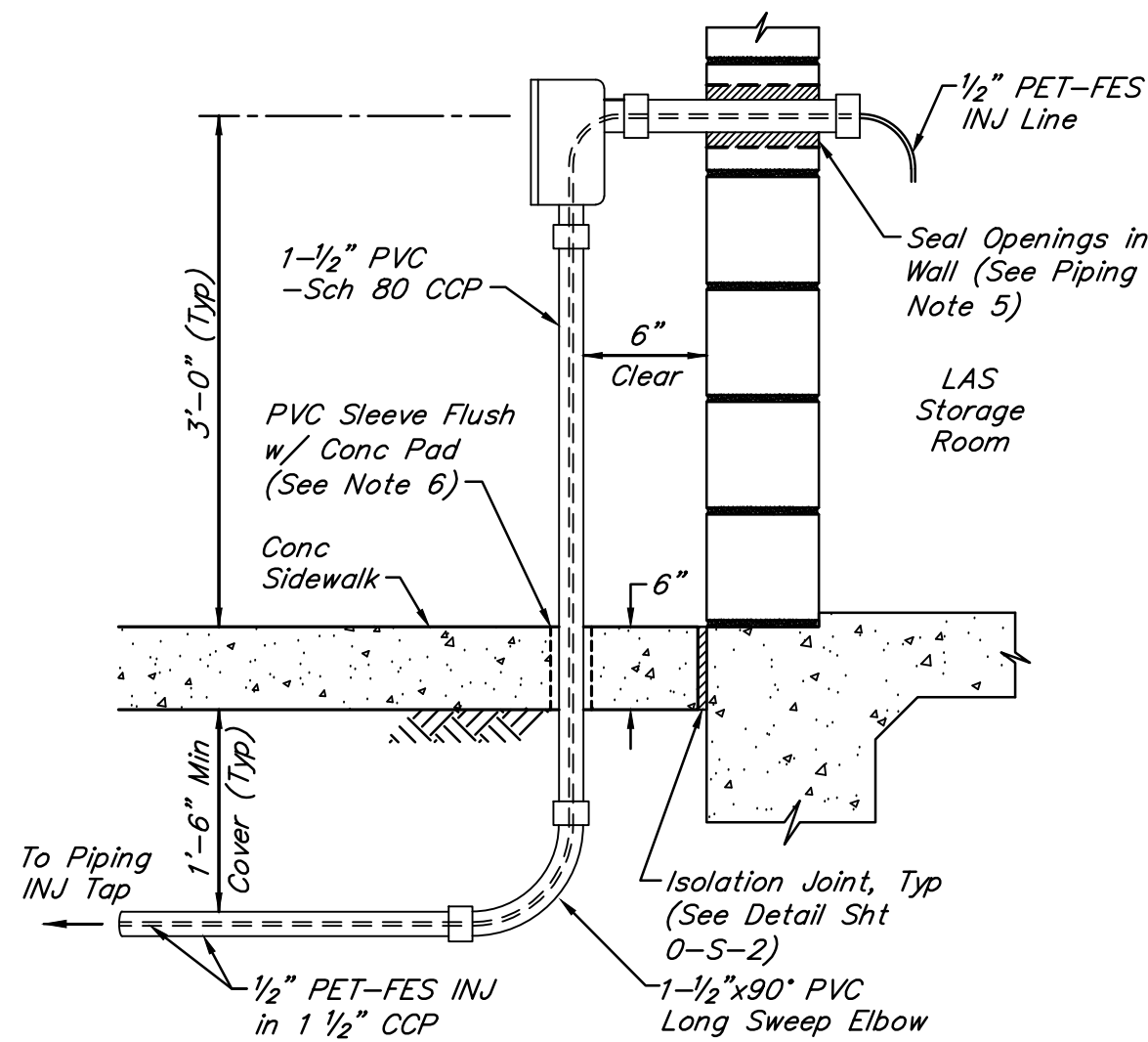
EXHAUST SHUTTER DETAIL
NOT TO SCALE



FLOOR DRAIN WITH TRAP SEAL DETAIL
NOT TO SCALE

NOTES:

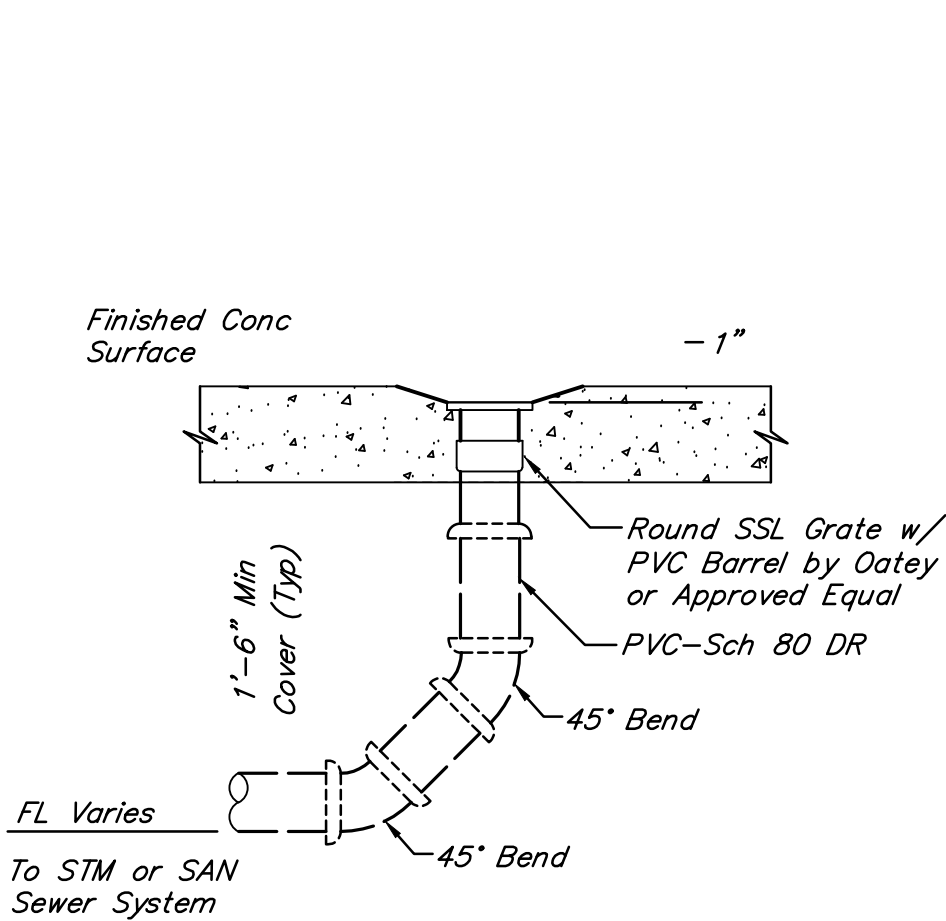
1. Trap guard shall be factory fitted to match each floor drain (and floor sink) by size, model, and manufacturer.
2. Floor sink trap guard installation is similar.
3. Installation of trap guard to be in accordance with manufacturer's recommendations.
4. Insert trap guard only after final rodding of drains. Install trap guard with clear silicone caulk for gas tite seal. For drain rodding after installation, insert sewer tape through lightly greased 1-1/2" PVC pipe to protect trap guard.



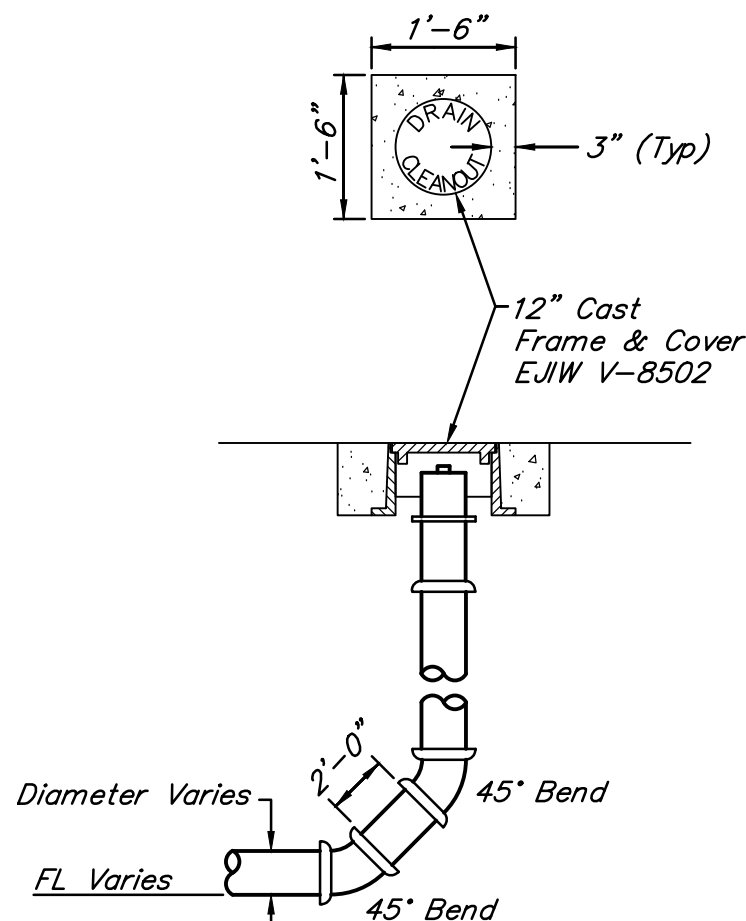
FES INJ LINE WALL PENETRATION DETAIL
NOT TO SCALE

PIPING NOTES:

1. Contractor shall construct all PE solution lines encased in Sch 80 PVC conduit and use only long sweep elbows and bends to allow tubing to be easily repaired and/or replaced in the future.
2. All chemical injection lines and taps shall be constructed as per the referenced detail drawings unless approved otherwise by the Engineer prior to making any changes.
3. The aboveground eye wash/shower safety station and water supply line shall be secured to the sidewalk and adjacent CMU wall with approved SS struts and Type 316 SS hardware as required.
4. All PVC piping shall be installed in accordance with the piping manufacturer's specifications.
5. All wall penetrations through CMU building walls shall be tightly sealed with an approved chemical resistant non-shrink grout.
6. All PVC sleeves shall be sized to minimize the void between the main pipe and the sleeve to a maximum 1/4-inch (1/4") gap.



TYPICAL DRAIN GRATE DETAIL
NOT TO SCALE

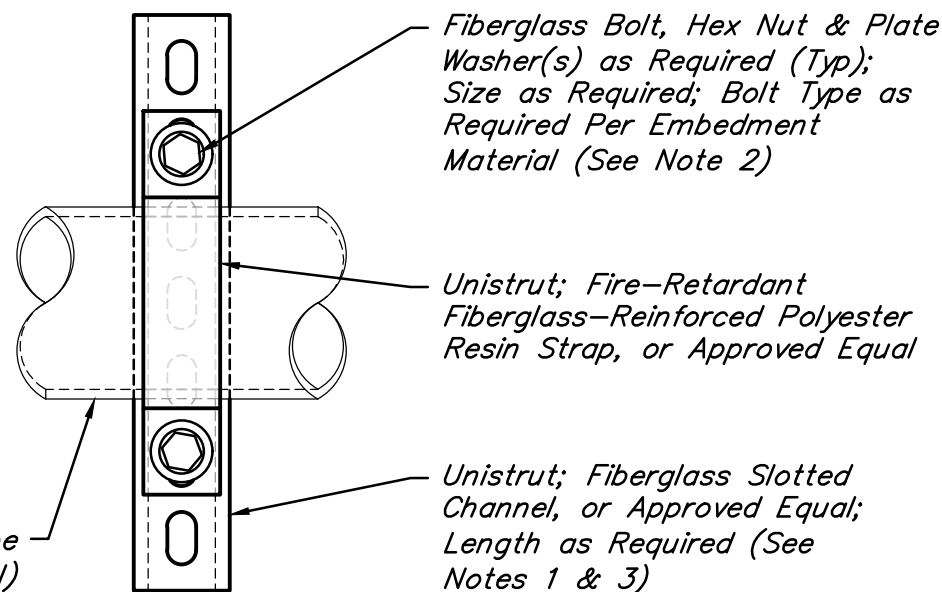


CLEANOUT DETAIL
NOT TO SCALE

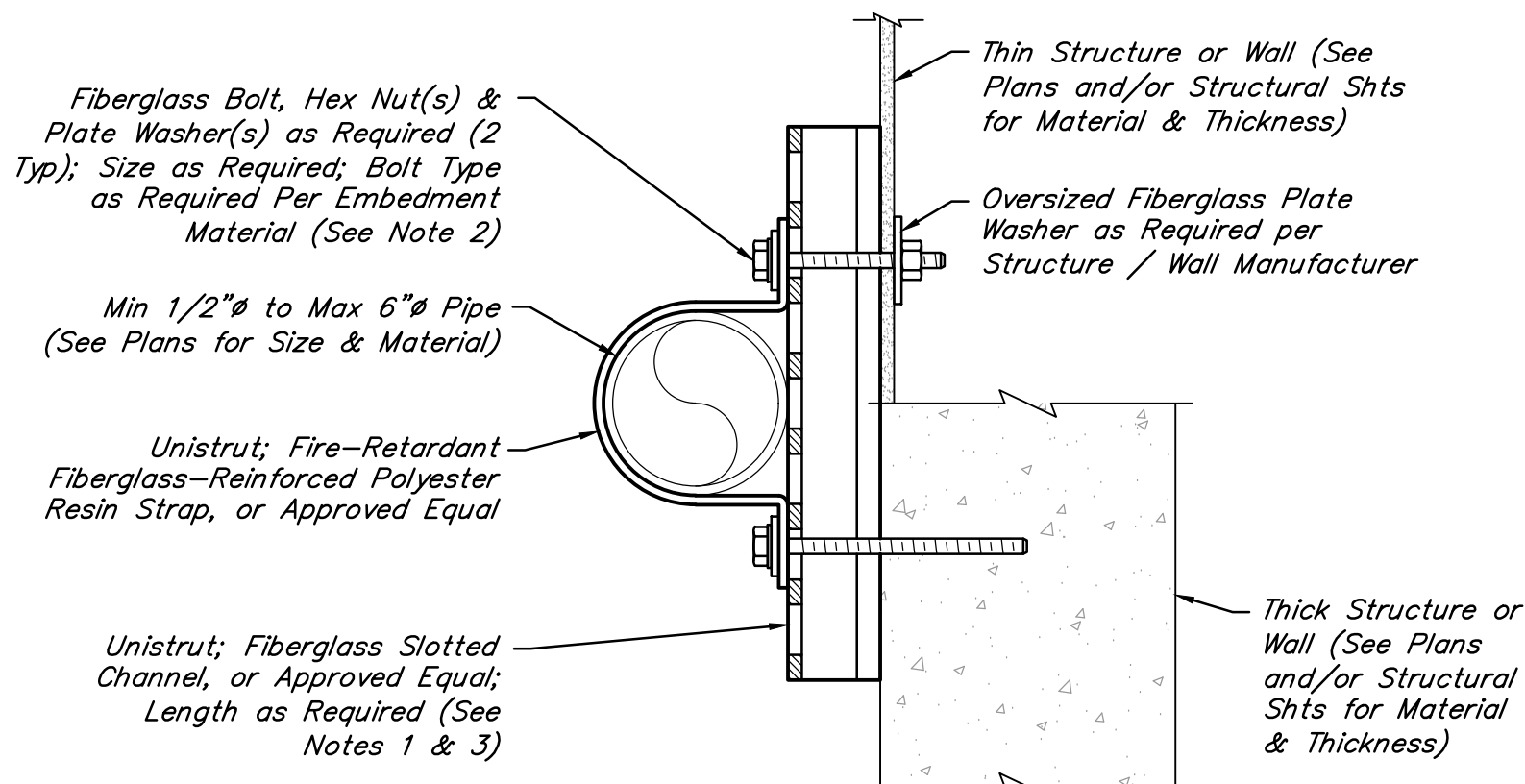
NOTES:

1. Light Duty Unistruts shall be used for 1/2" through 3" pipes. Heavy Duty Unistruts shall be used for 4" and 6" pipes.
2. Fiberglass bolts and nuts shall be tightened by hand ONLY.
3. For multiple pipes, extend length of fiberglass support channel as needed. Provide a minimum of clearance of 6" between pipes.

Min 1/2"Ø to Max 6"Ø Pipe
(See Plans for Size & Material)



END VIEW



SECTION VIEW

UNISTRUT WALL SUPPORT DETAIL FOR
PIPING 1/2" THROUGH 6" DIAMETER

NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: DIMITRIOS
JOB NO: 00050-0099-01 DWG BY: DIMITRIOS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

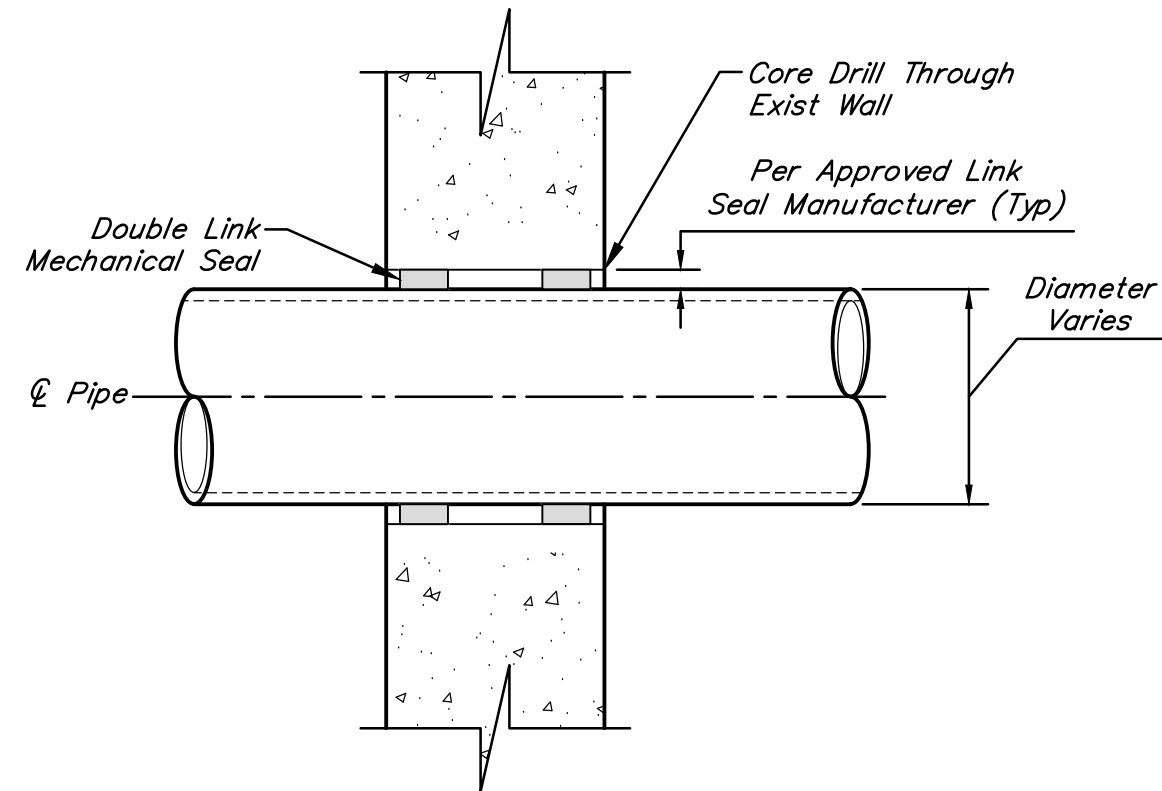
MECHANICAL DETAILS
SHEET 3 OF 5

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX

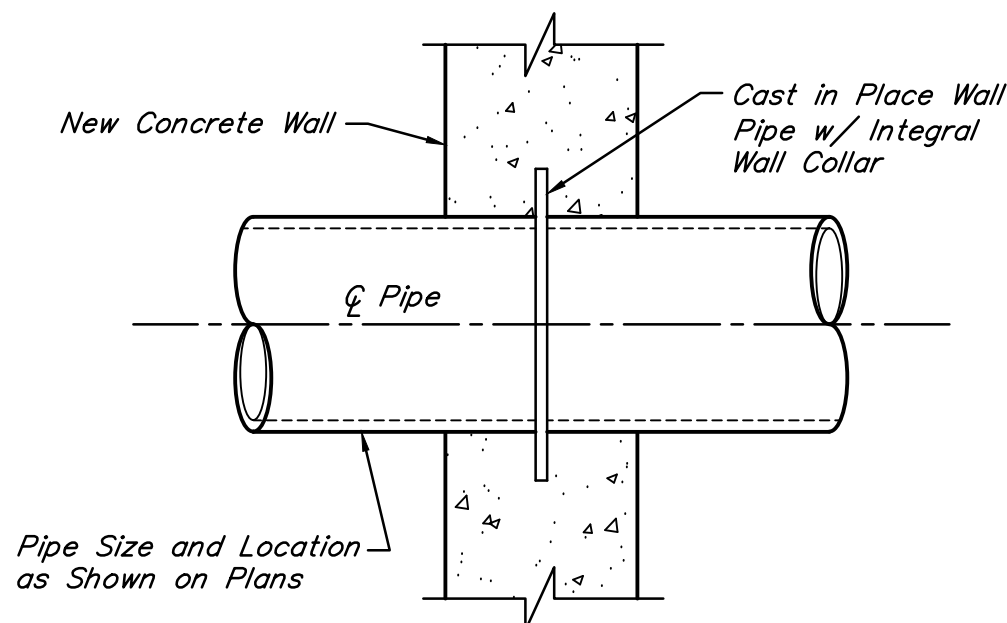
CATEGORY NO. 0-M-3 SHEET NO. XXX OF XXX

FOR CITY OF HOUSTON USE ONLY



EXIST CONC CORE DRILL
PIPE PENETRATION DETAIL

NOT TO SCALE

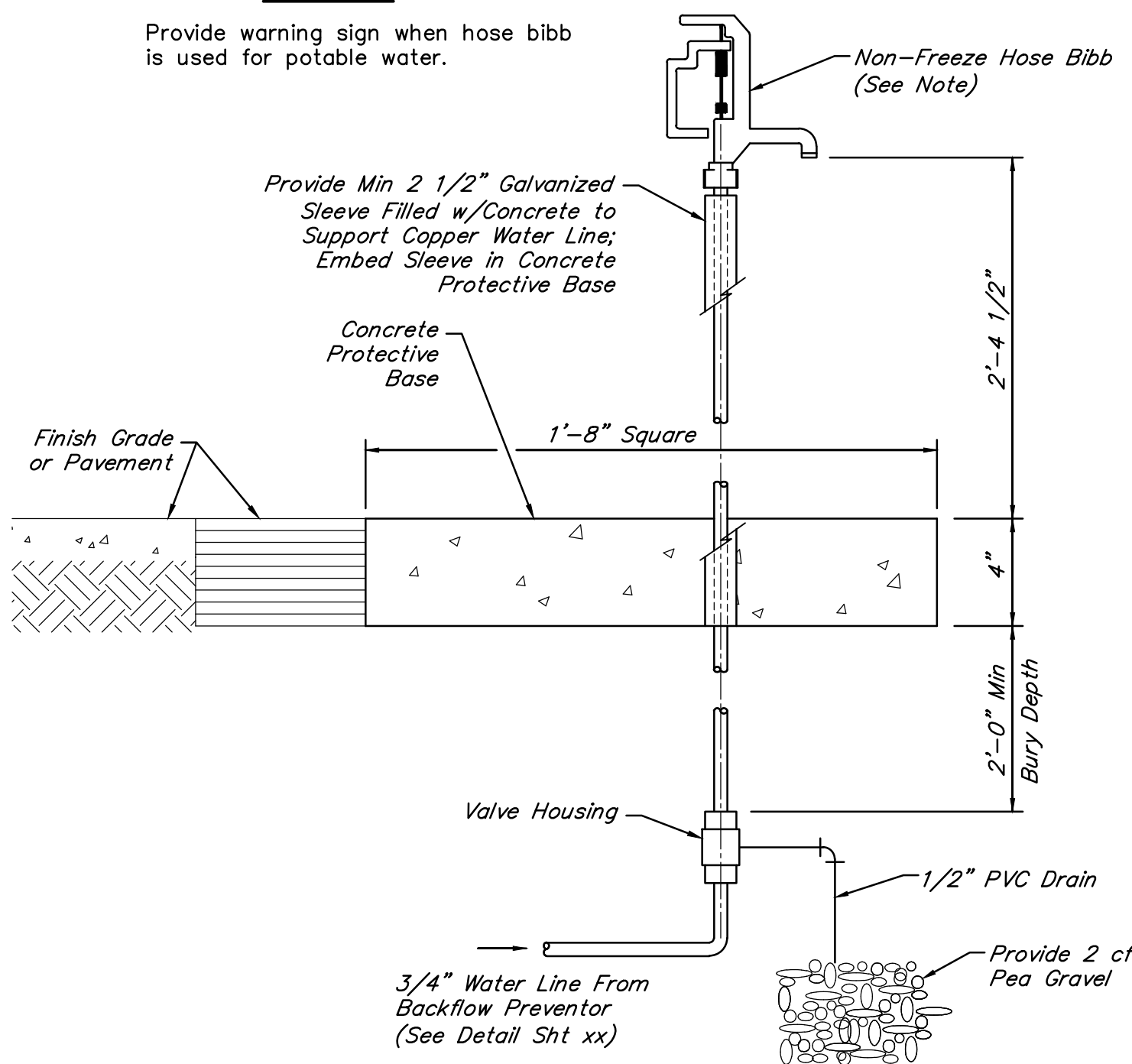


PIPE PENETRATION FOR
PROPOSED CONCRETE WALL DETAIL

NOT TO SCALE

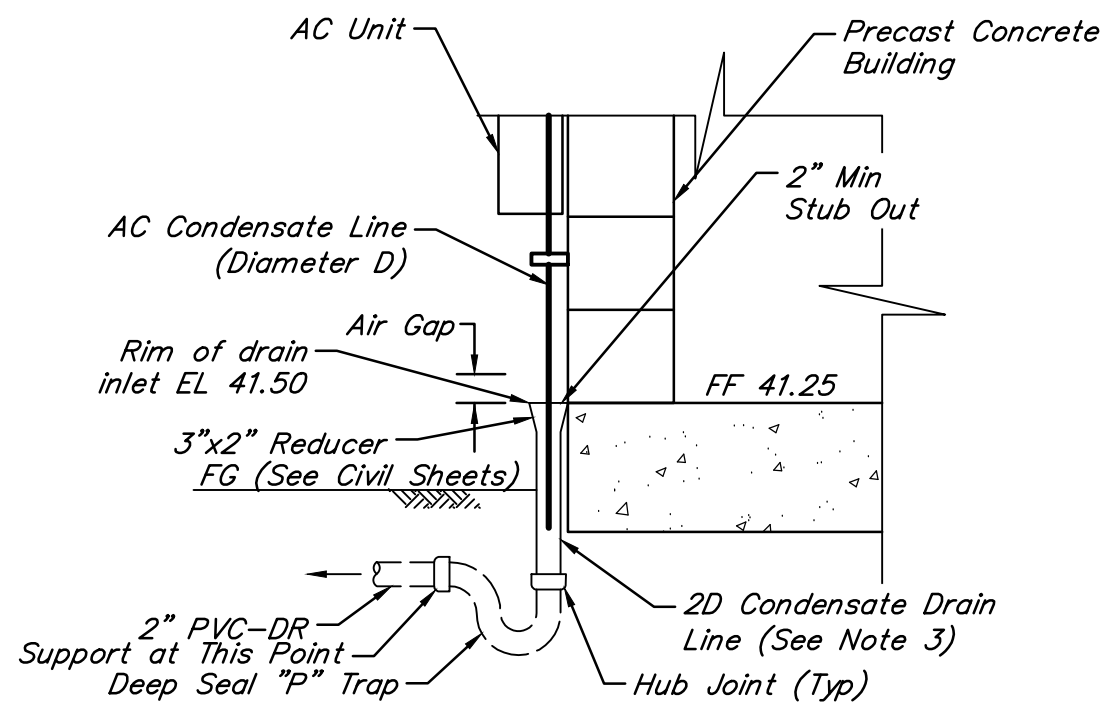
NOTE:

Provide warning sign when hose bibb is used for potable water.



TYP NON-FREEZE HOSE BIBB DETAIL

NOT TO SCALE

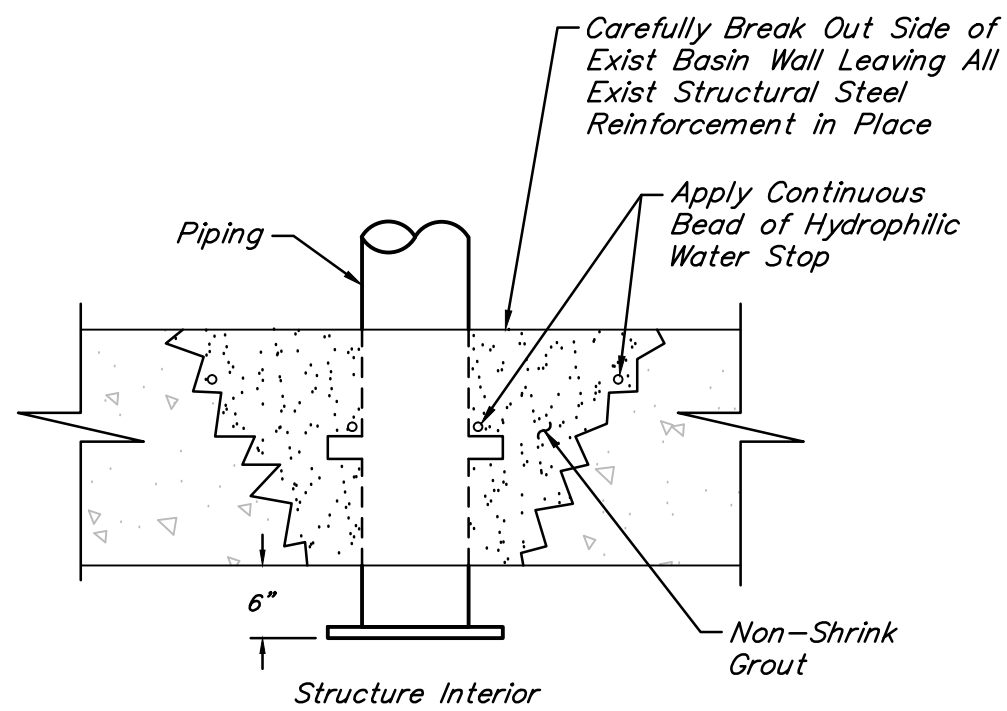


AC CONDENSATE DRAIN DETAIL

NOT TO SCALE

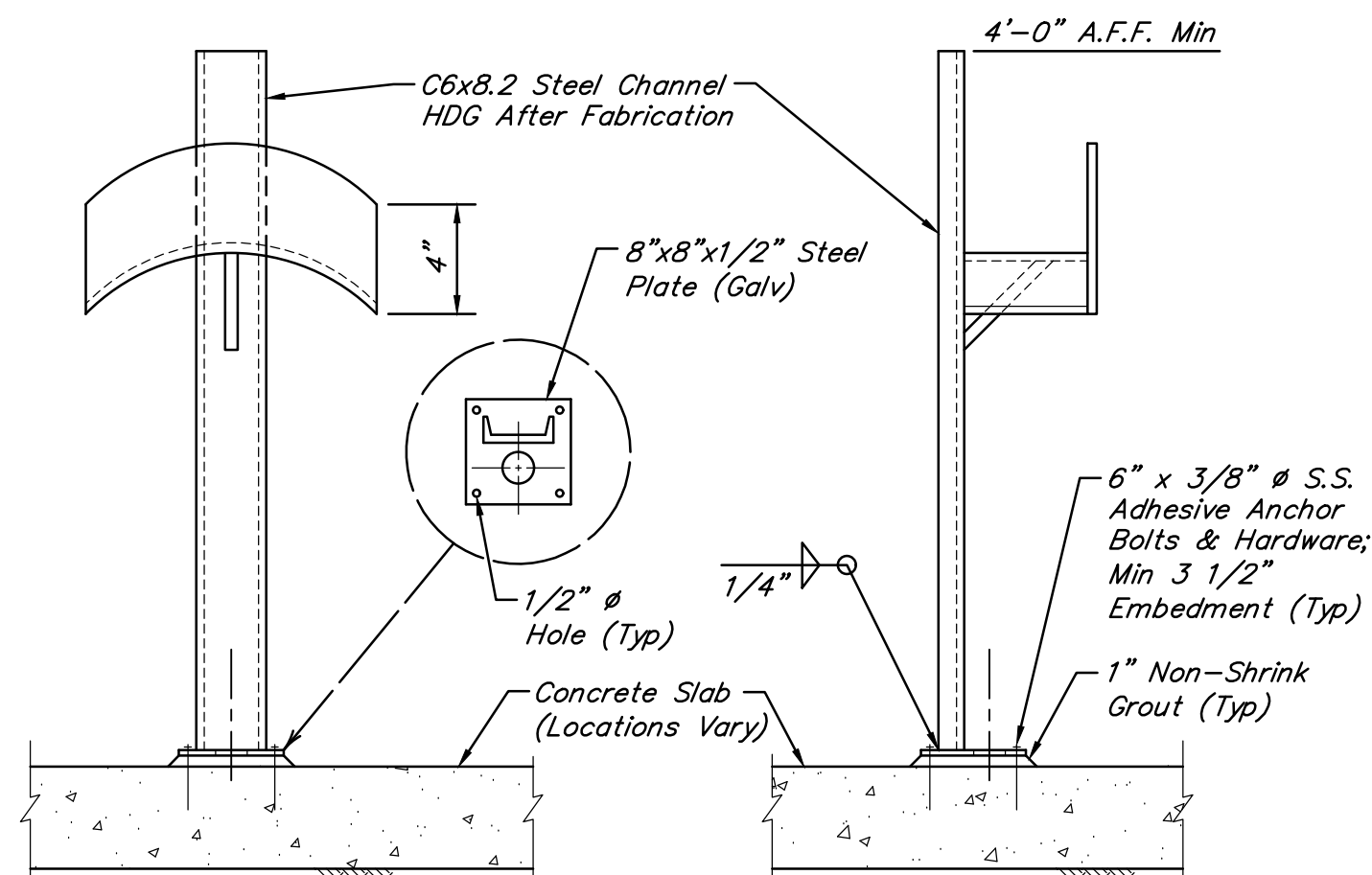
AC CONDENSATE DRAIN NOTES:

1. AC Waste line shall be at least 1 pipe diameter larger than the condensate line and shall be coordinated with the AC Manufacturer.
2. Support AC Condensate line to CMU w/ strut and SS hardware.
3. Provide air gap between A/C condensate line and A/C waste line in accordance with local code.
4. Detail shown for illustrative purposes only. Contractor shall route A/C Condensate line in accordance with submitted A/C manufacturer.



PIPE PENETRATION FOR
EXISTING CONCRETE WALL DETAIL

NOT TO SCALE

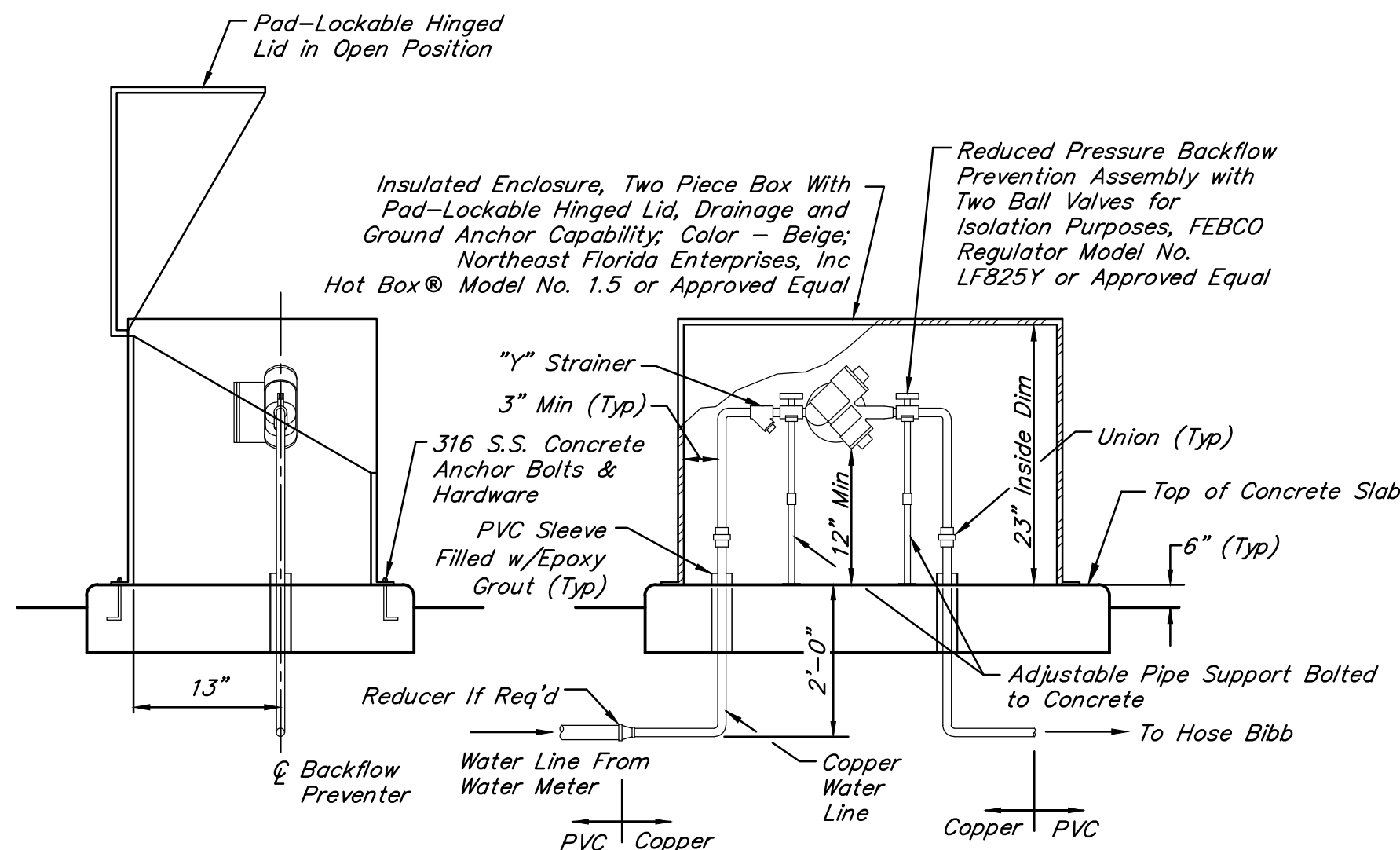


FRONT VIEW

SIDE VIEW

HOSE RACK DETAIL – SLAB-MOUNTED

NOT TO SCALE

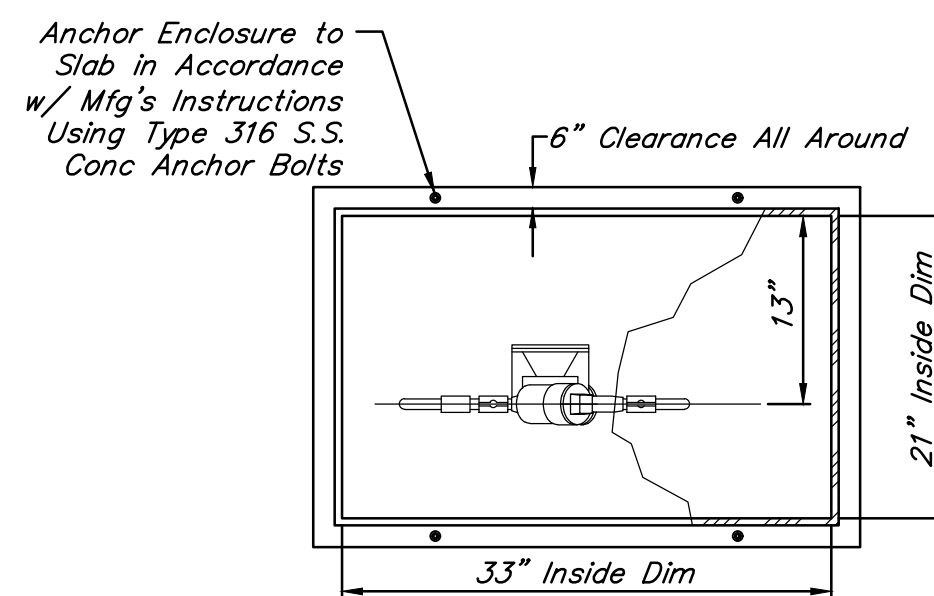


SIDE VIEW

FRONT VIEW

REDUCED PRESSURE ZONE
BACKFLOW PREVENTER INSTALLATION DETAIL

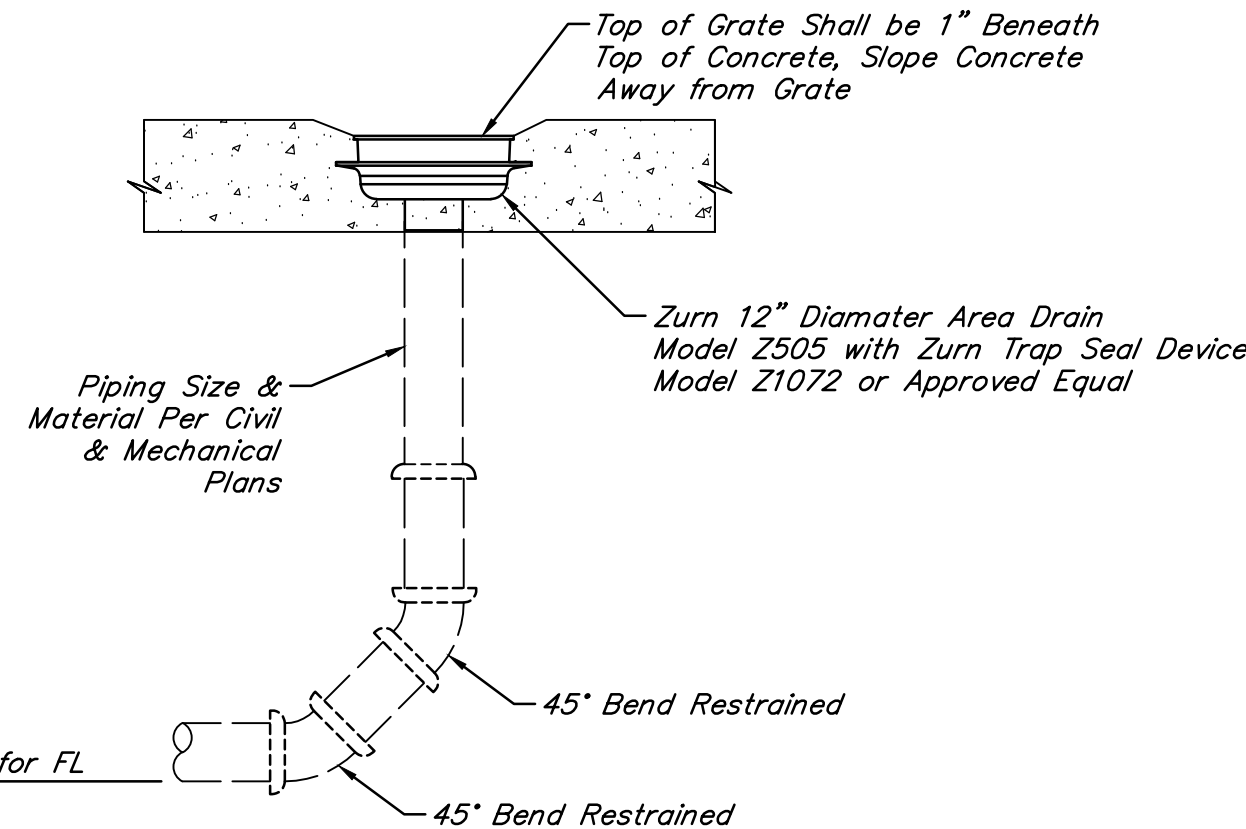
NOT TO SCALE



PLAN VIEW

NOTES:

1. Contractor shall provide and install appropriate fittings and accessories to make designated underground connection.
2. Fittings under the structure shall be restrained as per specifications.



AREA DRAIN DETAIL

NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

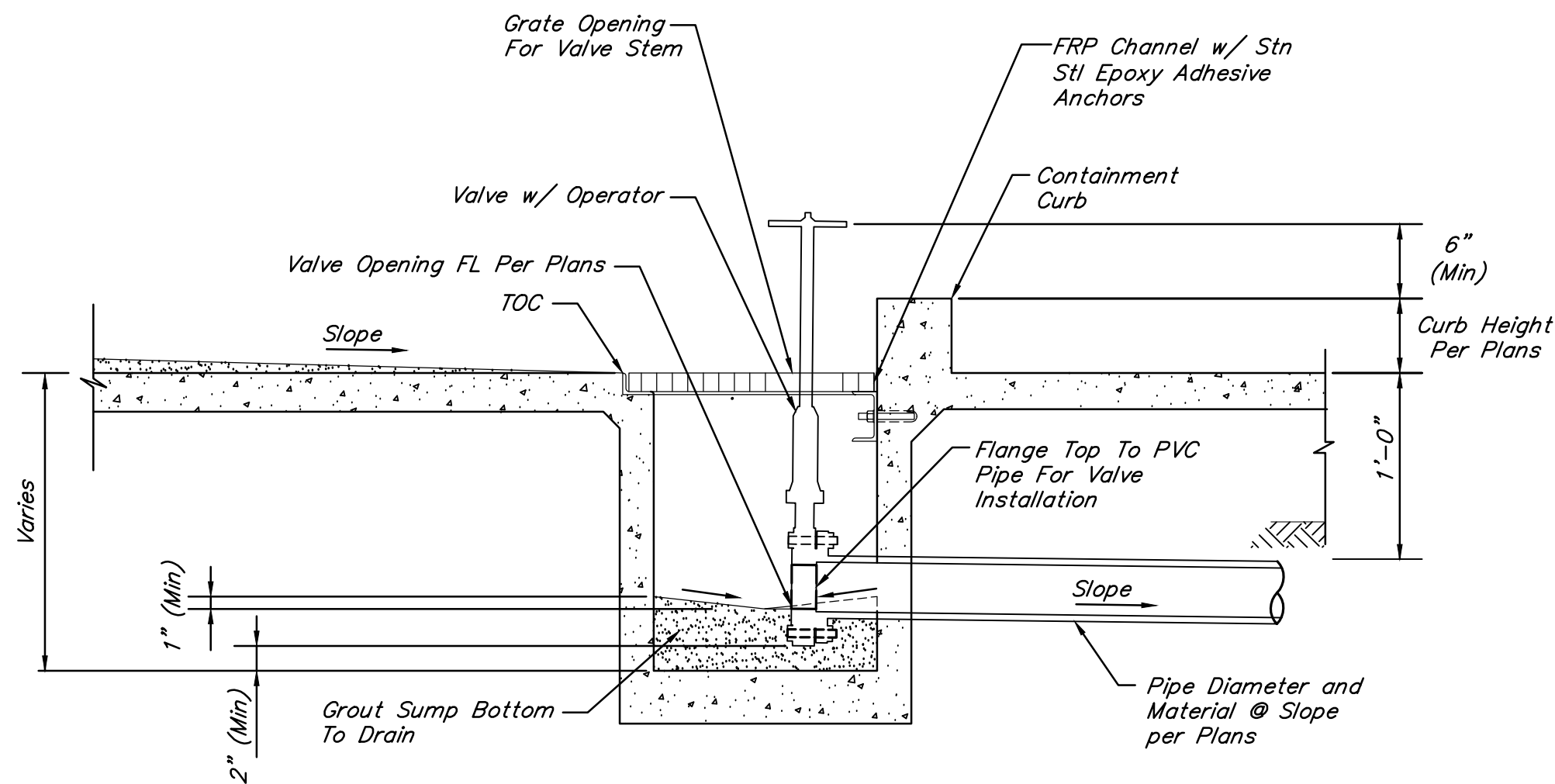
SCOTT STREET No. 1
LIFT STATION REHABILITATION

MECHANICAL DETAILS
SHEET 4 OF 5

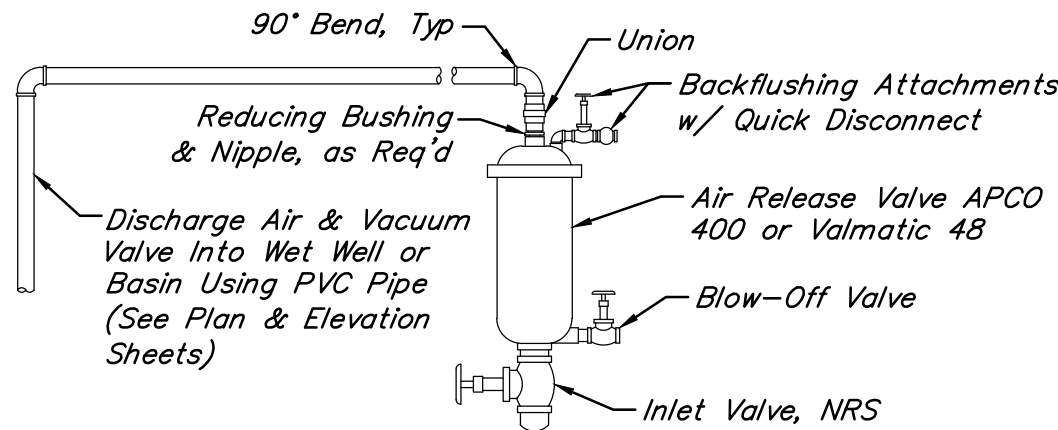
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX

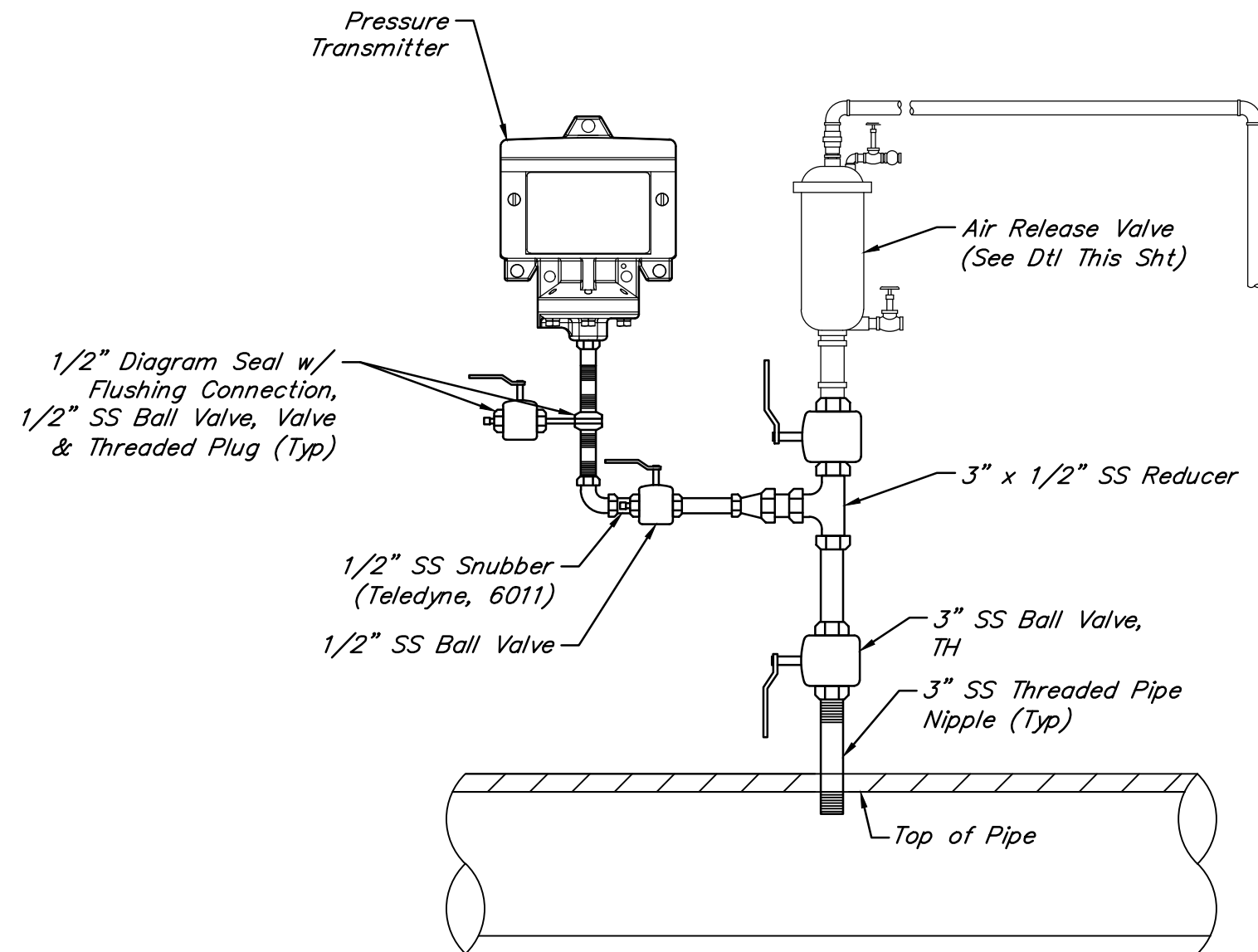
CATEGORY NO. 0-M-4 SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY



CHEMICAL CONTAINMENT AREA SUMP DETAIL
NOT TO SCALE



TYPICAL AIR RELEASE VALVE ASSEMBLY
NOT TO SCALE



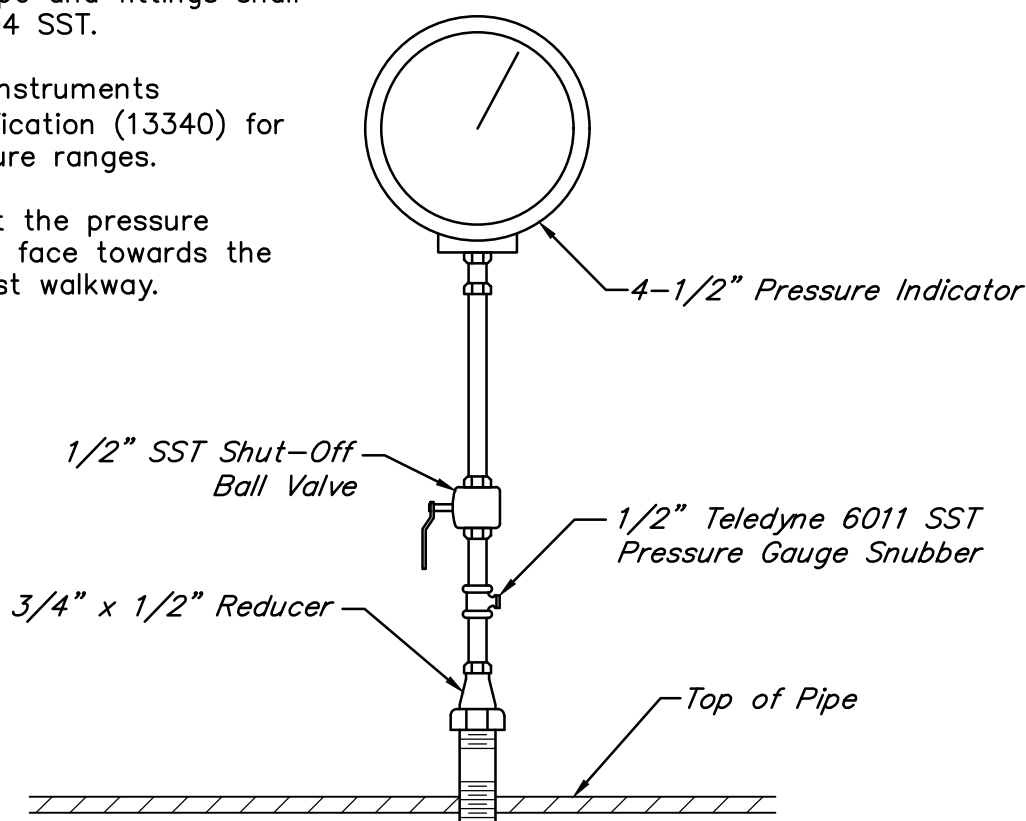
PRESSURE INDICATING TRANSMITTER & AIR RELEASE/ AIR ASSEMBLY WITH DIAPHRAGM SEAL DETAIL
NOT TO SCALE

NOTES:

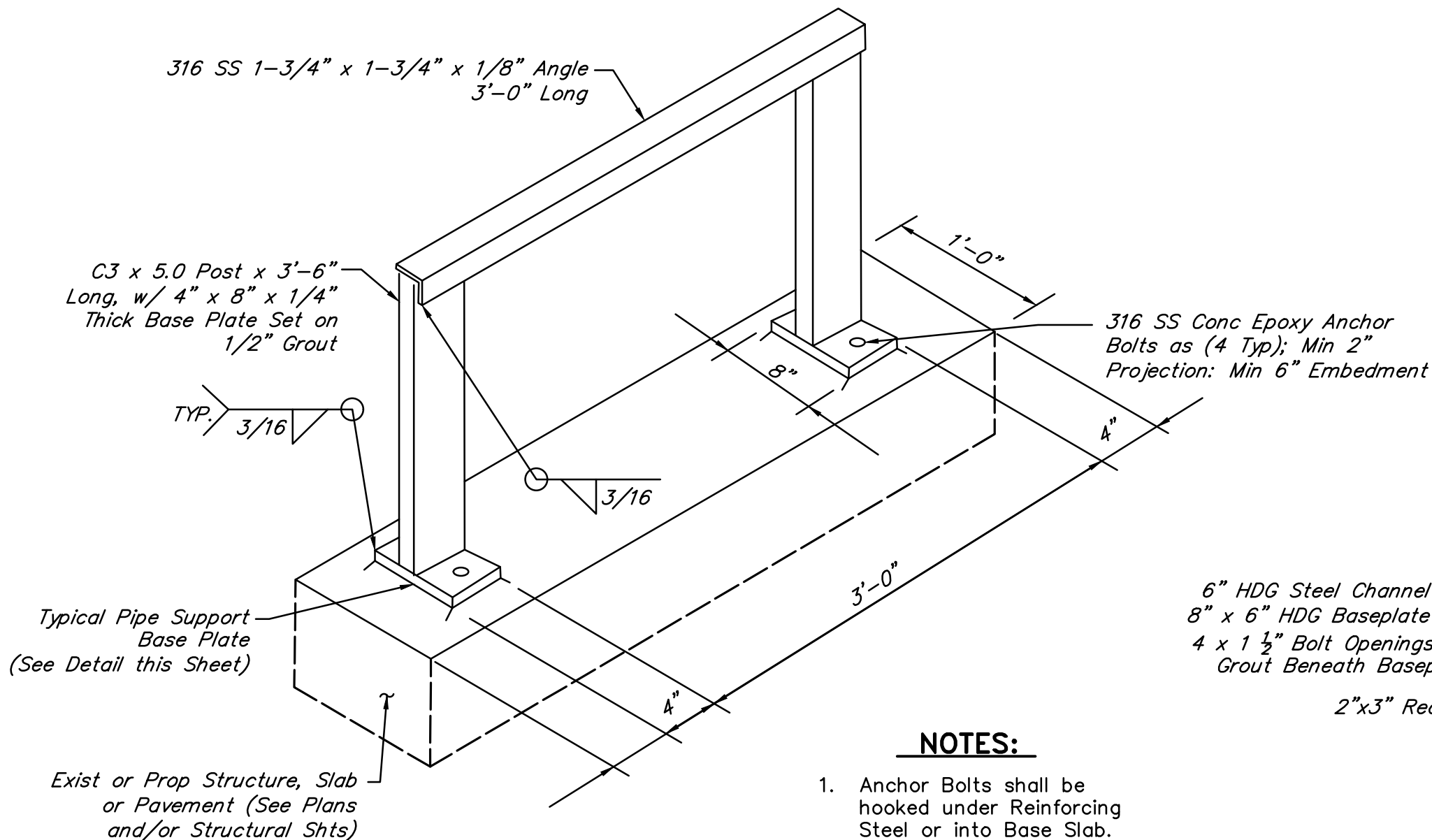
1. All pipe and fittings shall be 304 SST.

PRESSURE GAUGE NOTES:

1. All pipe and fittings shall be 304 SST.
2. See Instruments Specification (13340) for pressure ranges.
3. Orient the pressure gauge face towards the nearest walkway.



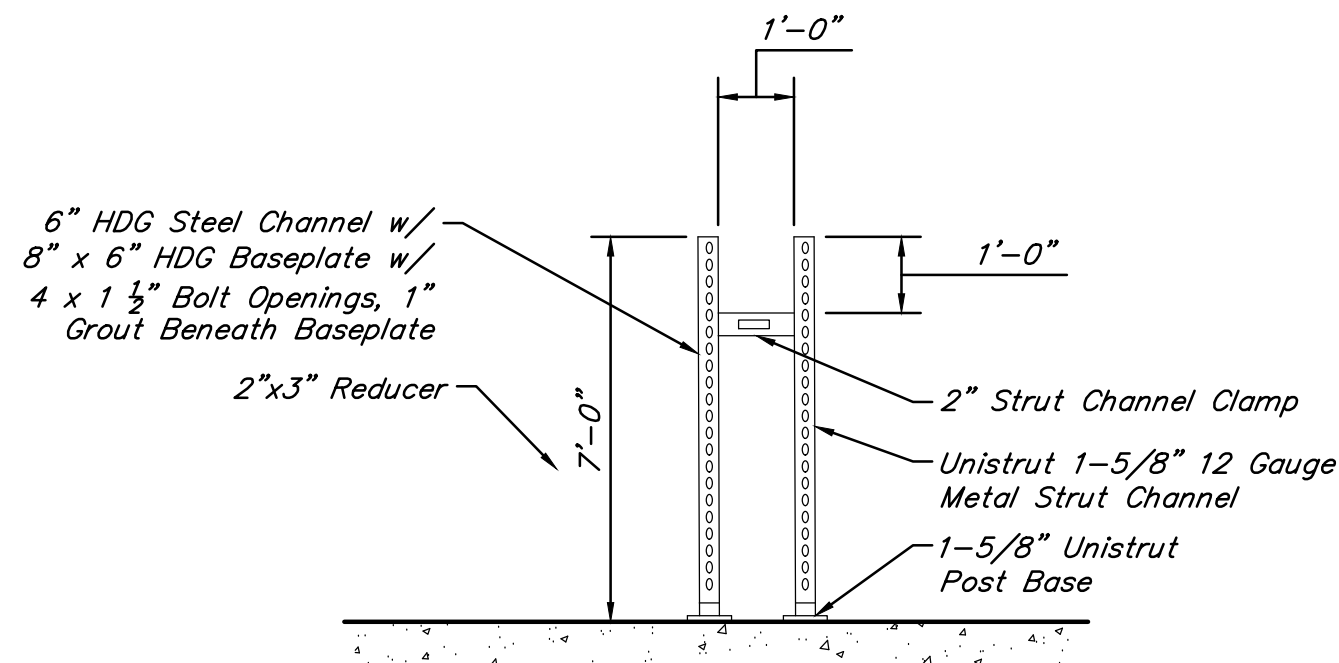
PRESSURE INDICATOR DETAIL
NOT TO SCALE



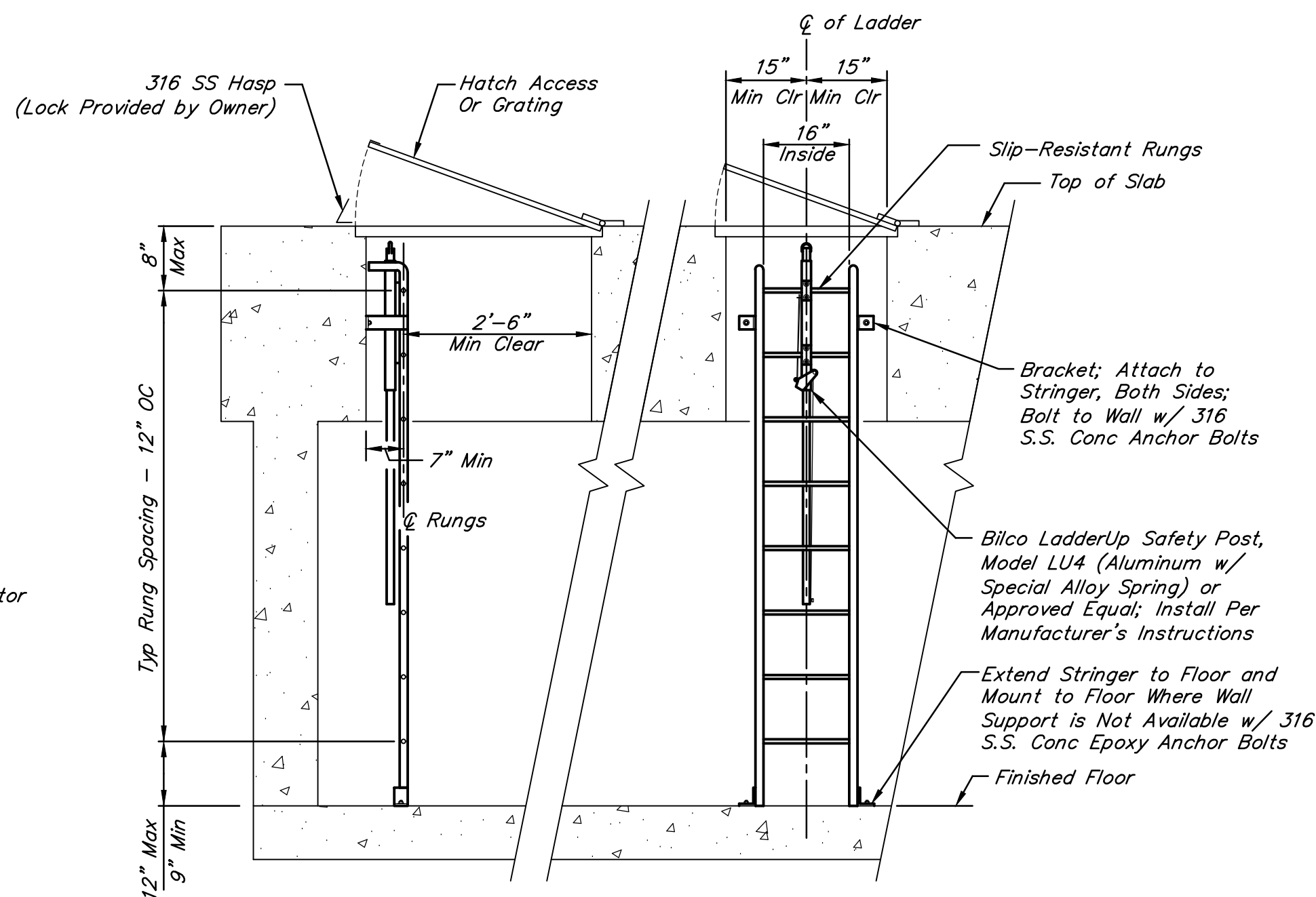
NOTES:

1. Anchor Bolts shall be hooked under Reinforcing Steel or into Base Slab.

TANK FILL PIPE SUPPORT DETAIL
NOT TO SCALE



UNISTRUT H-FRAME PIPE SUPPORT DETAIL
NOT TO SCALE



NOTE:

Contractor to provide detail drawings of ladder during shop drawing submission.

TYPICAL ENTRY ACCESS LADDER INSTALLATION DETAIL
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

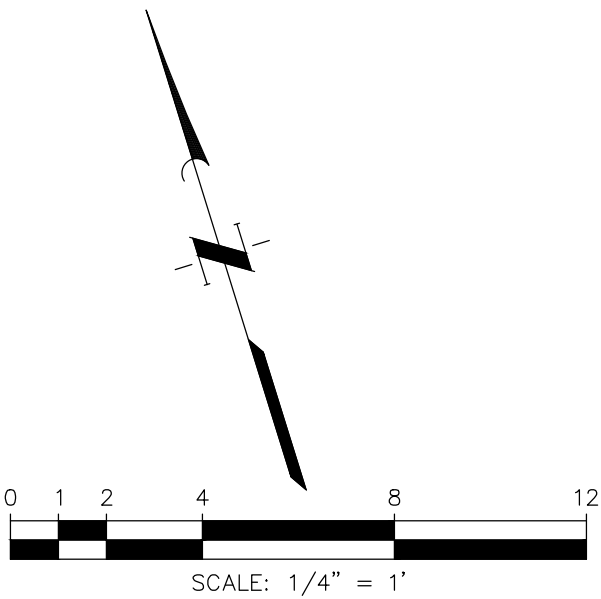
MECHANICAL DETAILS
SHEET 5 OF 5

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

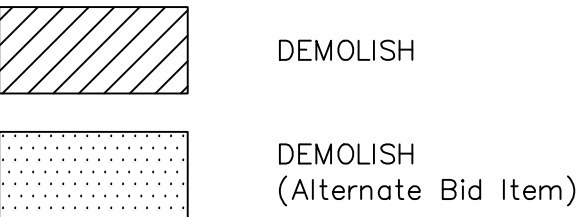
DRAWING SCALE: NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 0-M-5 SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY

ITEMS OF WORK			
No.	DESCRIPTION	No.	DESCRIPTION
1	Chip out and demolish existing 12" GS vents.	8	Demolish existing submersible pumps, base elbows, lifting chain, guiderails, power cables, and electrical junction boxes.
2	Chip out and demolish existing 4'-0" x 3'-0" access hatch.	9	Demolish existing 6" DI - DR up to flange at wall pipe penetration.
3	Demolish existing slide gate operator and slide gate.	10	Demolish existing level instruments, floats, and cables.
4	Chip out and demolish pump access hatch.	11	Demolish existing valve vault access ladder.
5	Demolish existing FRP grating, grating framing, embeds, and concrete curb.	12	Chip out and demolish existing 20" riser piping wall collars.
6	Chip out and demolish existing 3/4" FES in 3" PVC pipe	13	Chip out and demolish existing 24" force main piping wall collars.
7	Demolish existing riser and header piping, valves, fittings, and pipe supports in the wet well and valve vault.	14	Demolish existing baffle wall and underflow baffles.

ITEMS OF WORK (ALTERNATE BID ITEMS)	
No.	DESCRIPTION
A1	Chip out and demolish existing 4" drain line piping wall collars. (Alternate Bid Item No. 1)
A2	Chip out and demolish existing 6" drain line piping wall collars. (Alternate Bid Item No. 2)



LEGEND:



NOTES:

- All existing structures, dimensions, locations, and materials shown are based on City of Houston's record drawings. Contractor shall field verify existing dimensions, locations, and materials as required to complete the work and as directed by the Engineer. Field verification shall be incidental to the work.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

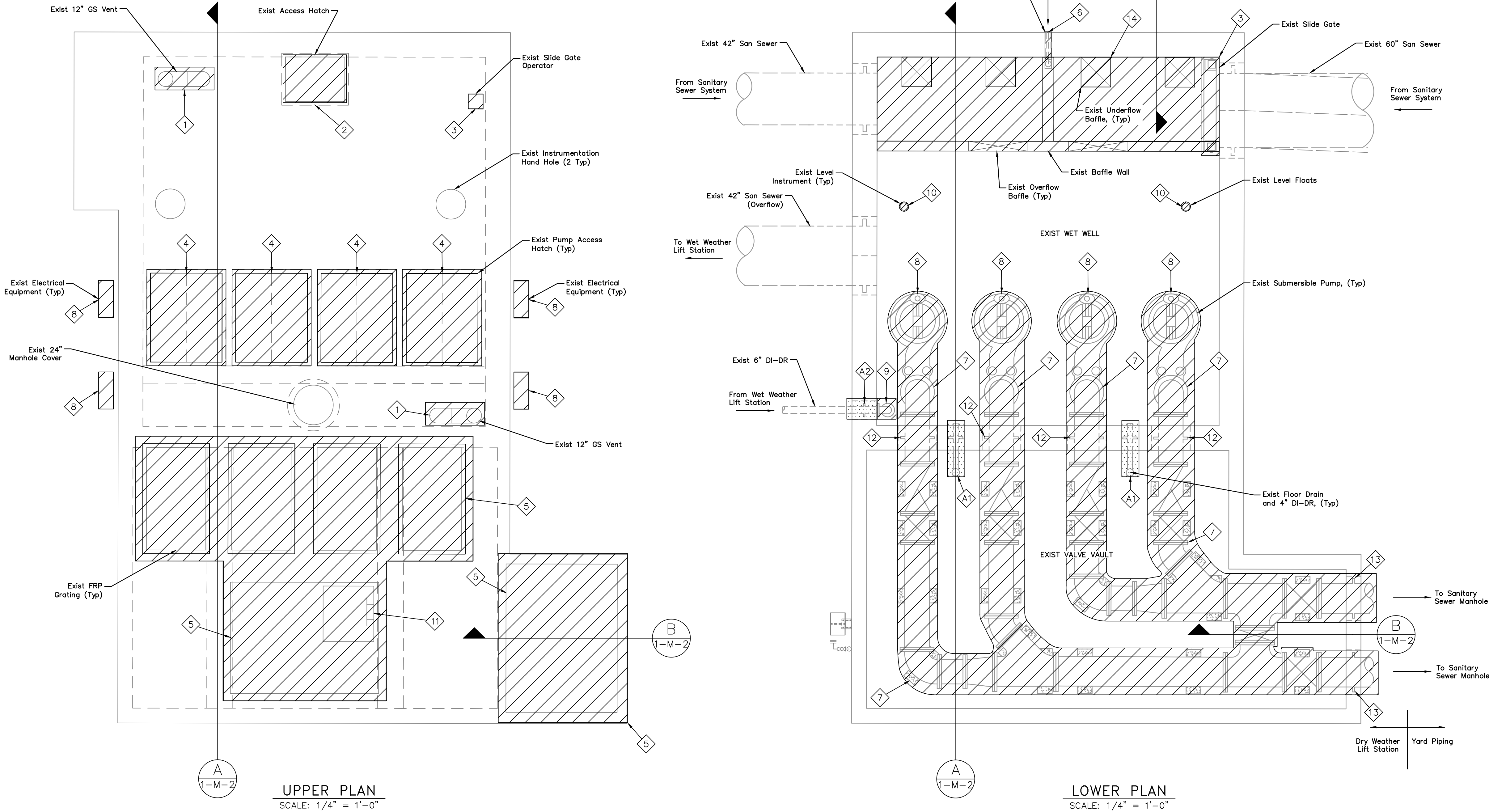
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

DRY WEATHER PUMP STATION
DEMOLITION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. 1-M-1 SHEET NO. 32 OF XXX
FOR CITY OF HOUSTON USE ONLY



ITEMS OF WORK			
No.	DESCRIPTION	No.	DESCRIPTION
1	Chip out and demolish existing 12" GS vents.	8	Demolish existing level instruments, floats, and cables.
2	Chip out and demolish existing pump access hatch.	9	Demolish existing 24" force main piping, valves, fittings, instruments and pipe supports.
3	Demolish existing FRP grating, grating framing, embeds, and concrete curb.	10	Demolish existing baffle wall.
4	Demolish existing 20" riser piping, valves, fittings, and pipe supports.	11	Demolish existing grouting.
5	Demolish existing 6" DI – DR up to flange at wall pipe penetration.	12	Demolish existing slide gate frame and extended intermediate stem.
6	Demolish existing submersible pumps, base elbows, lifting chain, guiderails, and power cables.	13	Chip out and demolish exist 20" riser piping wall collars.
7	Demolish existing pump shelf.	14	Chip out and demolish exist 24" force main piping wall collars.

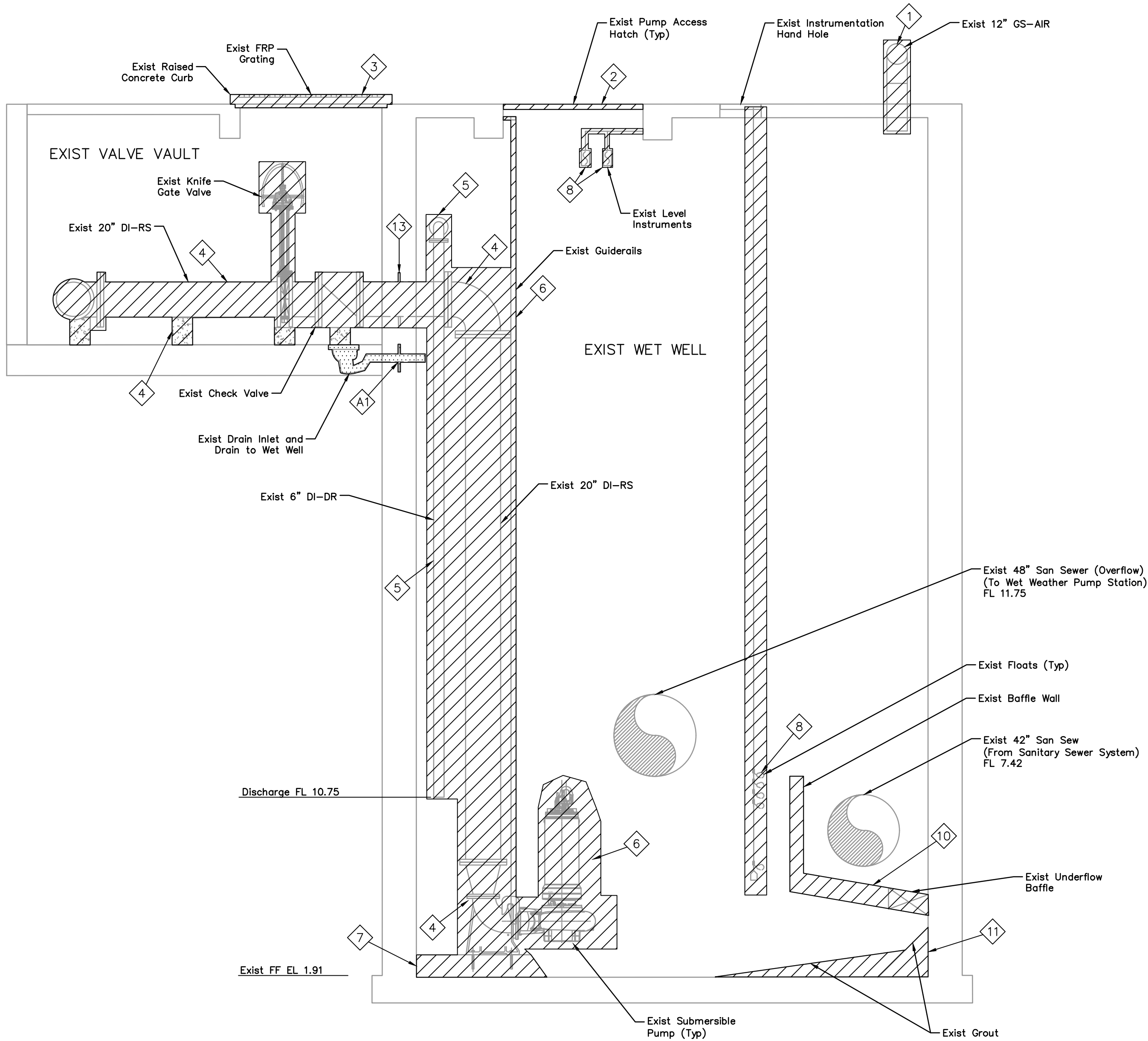
ITEMS OF WORK (ALTERNATE BID ITEMS)	
No.	DESCRIPTION
A1	Chip out and demolish existing 4" drain line piping and wall collars. (Alternate Bid Item No. 1)

LEGEND:

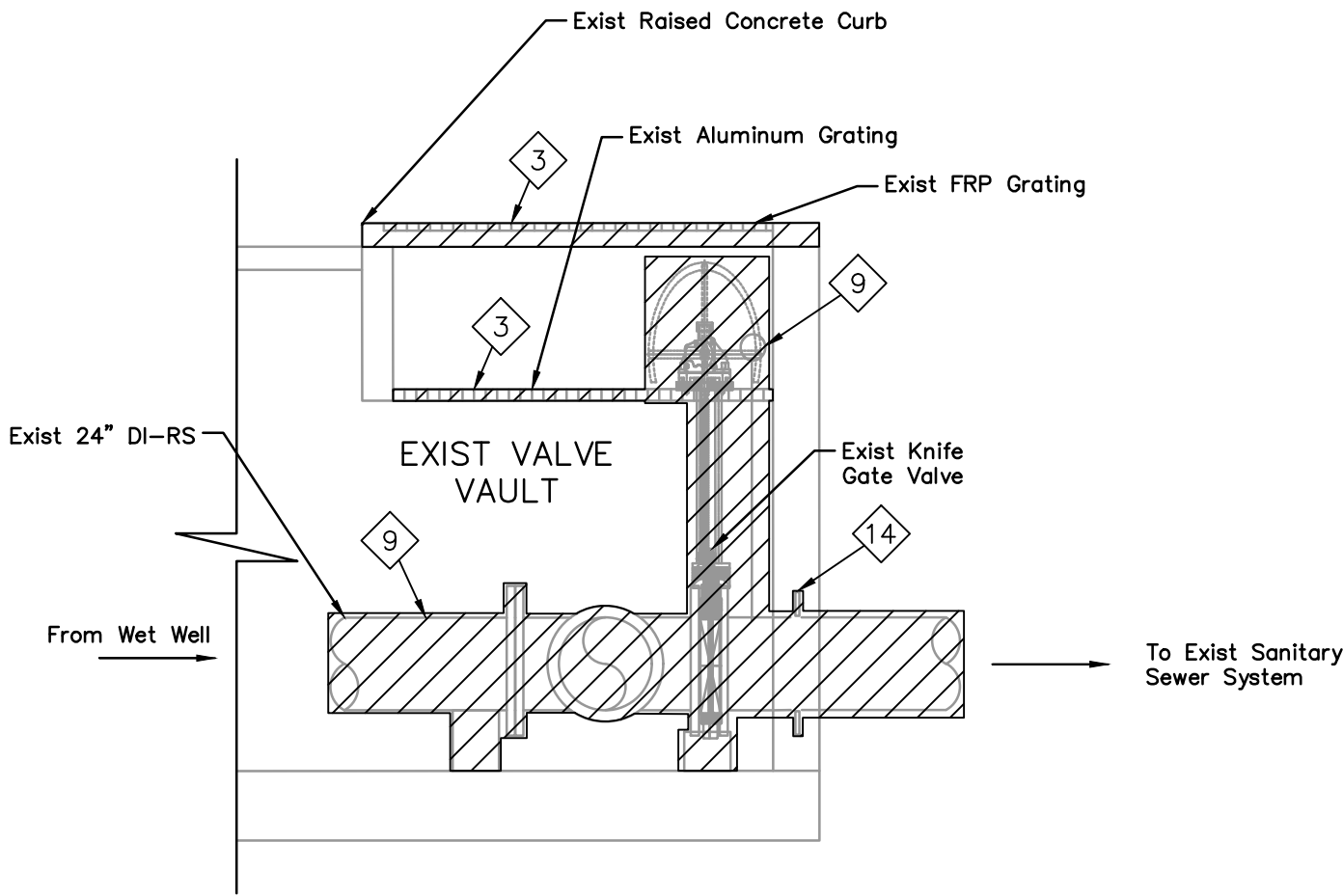
	DEMOLISH
	DEMOLISH (Alternate Bid Item)

NOTES:

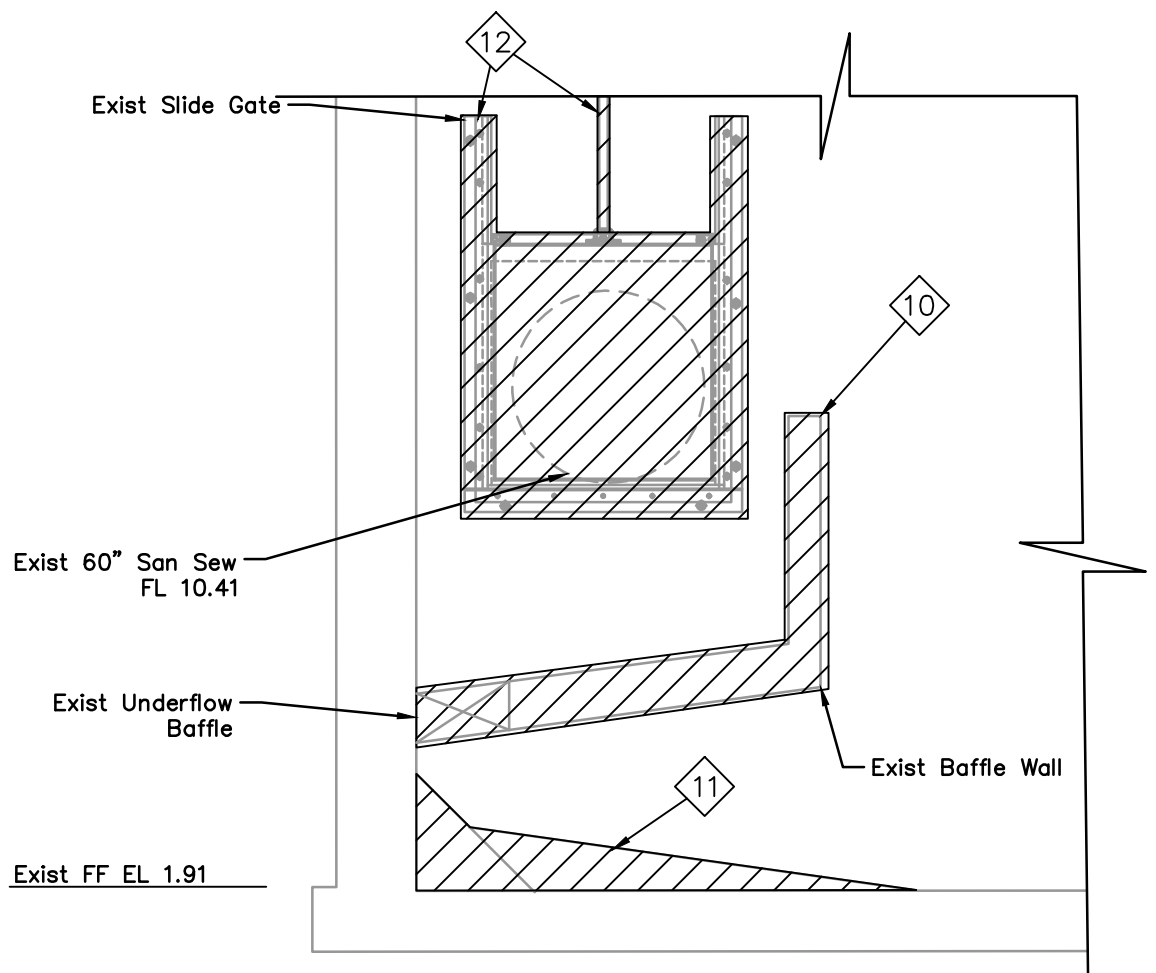
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SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"



SECTION C-C
SCALE: 1/4" = 1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025

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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

DRY WEATHER PUMP STATION
DEMOLITION SECTION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. 1-M-2 SHEET NO. 33 OF XXX
FOR CITY OF HOUSTON USE ONLY

VALVES, FITTINGS AND ACCESSORIES SCHEDULE

No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION	No.	DESCRIPTION
①	24" x 24" x 20" Tee, FJ	⑪	20" x 20" x 20" Tee, FJ	⑲	20" Dismantling Joint (DJ-01-201)	⑲	20" Dismantling Joint (DJ-01-201)
②	24" Dismantling Joint (DJ-01-001)	⑫	20" 45° Bend, FJ	⑳	20" Swing Check Valve (SCV-01-101)	⑳	20" Swing Check Valve (SCV-01-101)
③	24" Knife Gate Valve (KGV-01-001)	⑬	20" Swing Check Valve (SCV-01-101)	㉑	20" Knife Gate Valve (KGV-01-101)	㉑	20" Knife Gate Valve (KGV-01-101)
④	24" Dismantling Joint (DJ-01-003)	⑭	20" Knife Gate Valve (KGV-01-101)	㉒	20" Dismantling Joint (DJ-01-401)	㉒	20" Dismantling Joint (DJ-01-401)
⑤	24" Knife Gate Valve (KGV-01-002)	⑮	20" Dismantling Joint (DJ-01-101)	㉓	6" 90° Bend, FJ	㉓	6" 90° Bend, FJ
⑥	24" Dismantling Joint (DJ-01-002)	⑯	20" Swing Check Valve (SCV-01-201)	㉔	4" Duckbill Check Valve (DBV-01-001)	㉔	4" Duckbill Check Valve (DBV-01-001)
⑦	24" Knife Gate Valve (KGV-01-003)	⑰	20" Knife Gate Valve (KGV-01-201)	㉕	4" Duckbill Valve (DBV-01-002)	㉕	4" Duckbill Valve (DBV-01-002)
⑧	24" x 20" Concentric Reducer, FJ	⑱	20" Dismantling Joint (DJ-01-201)	㉖	1/2" Pressure Indicator (PI-01-101) and 1/2" Ball Valve (BV-01-102)	㉖	1/2" Pressure Indicator (PI-01-101) and 1/2" Ball Valve (BV-01-102)
⑨	24" x 24" x 20" Lateral Wye, FJ	㉑	20" Swing Check Valve (SCV-01-301)	㉗	3" Air & Vacuum Valve (AVV-01-101) and 3" Ball Valve (BV-01-101)	㉗	3" Air & Vacuum Valve (AVV-01-101) and 3" Ball Valve (BV-01-101)
⑩	20" 90° Bend, FJ	㉒	20" Knife Gate Valve (KGV-01-301)	㉘	1/2" Pressure Indicator (PI-01-201) and 1/2" Ball Valve (BV-01-202)	㉘	1/2" Pressure Indicator (PI-01-201) and 1/2" Ball Valve (BV-01-202)

ITEMS OF WORK (ALTERNATE BID ITEMS)

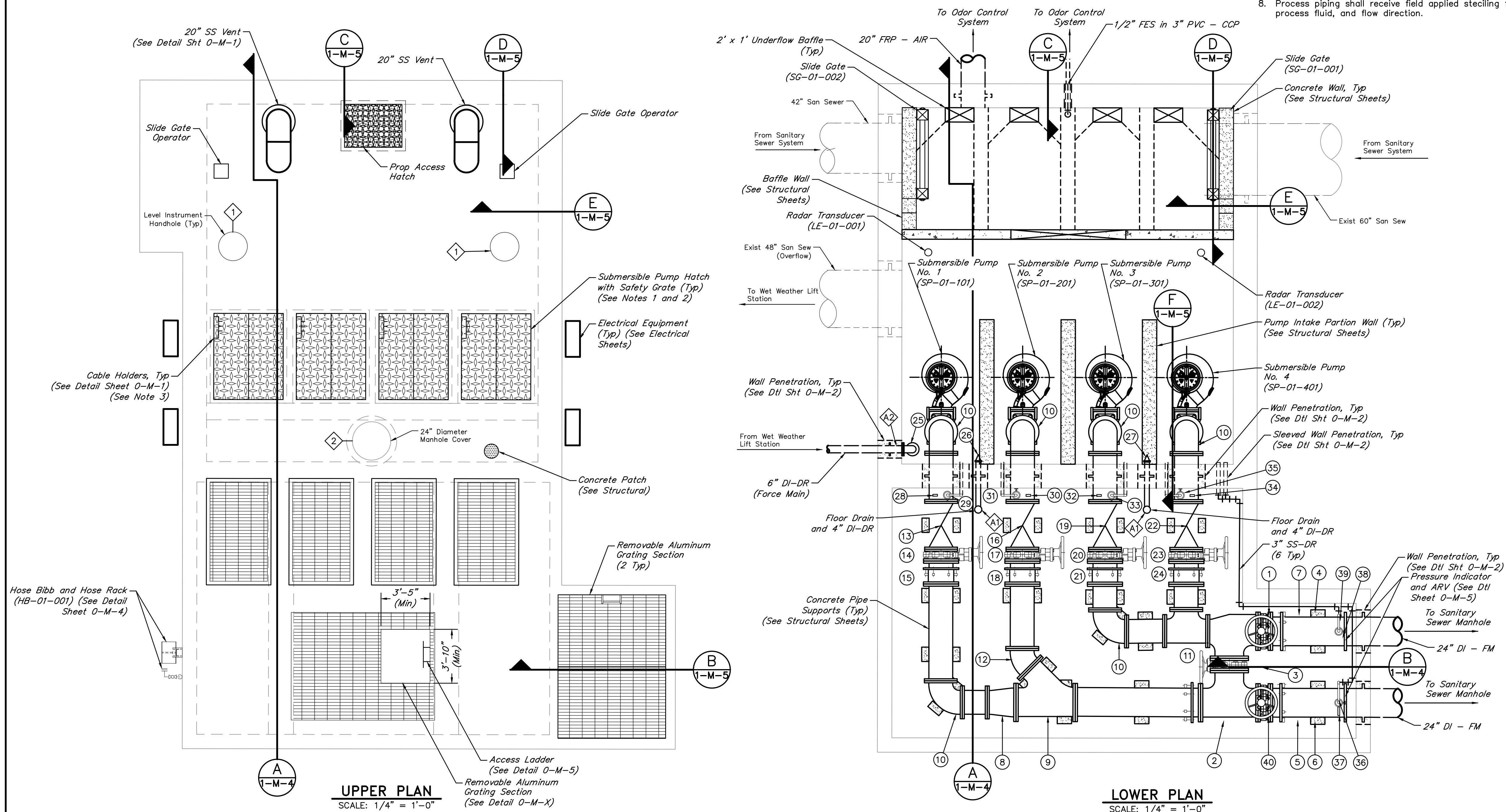
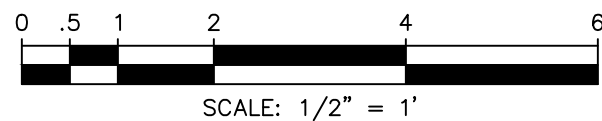
No.	DESCRIPTION
①	Install 6" Drain Inlet w/P-Trap and 4" DI Drain Line w/ wall collars.
②	Install 6" DI-Drain (Force Main) w/ Wall Penetration.

ITEMS OF WORK

No.	DESCRIPTION
①	Hand clean and apply a cold galvanizing spray on the instrument handhole cover.
②	Hand clean and apply a cold galvanizing spray on the manhole cover.

NOTES:

- The access hatch requires a rigid safety grate fall prevention system with less than three inch (3") openings between the grate and any edge of the hatch opening.
- Contractor shall verify the minimum required pump access hatch size with the Pump Manufacturer. The minimum size is shown.
- Contractor to field locate the location of existing cable holders so as to confirm unimpeded installation of pumps and safety grating.
- Contractor shall apply protective coating to all proposed above ground and below ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
- All existing structures, dimensions, locations, elevations, and materials shown are based on City of Houston's record drawings. Contractor shall field verify existing dimensions, locations, elevations, and materials as required to complete the work and as directed by the Engineer. Field verification shall be incidental to the work.
- All aluminum grating and access hatches shall receive shop applied power coating, color COH forest green.
- Access hatch covers shall receive field applied stenciling for equipment identification.
- Process piping shall receive field applied stenciling for process fluid, and flow direction.



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: NOVEMBER 2025



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290

6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025

JOB NO: 00050-0099-01

DGN BY: CTHOMAS

DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE

YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

DRY WEATHER PUMP SECTION
IMPROVEMENT PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1'-0" HORIZ: XXX VERT: XXX

CATEGORY NO. 1-M-3 SHEET NO. 34 OF XXX

FOR CITY OF HOUSTON USE ONLY

VALVES, FITTINGS AND ACCESSORIES SCHEDULE

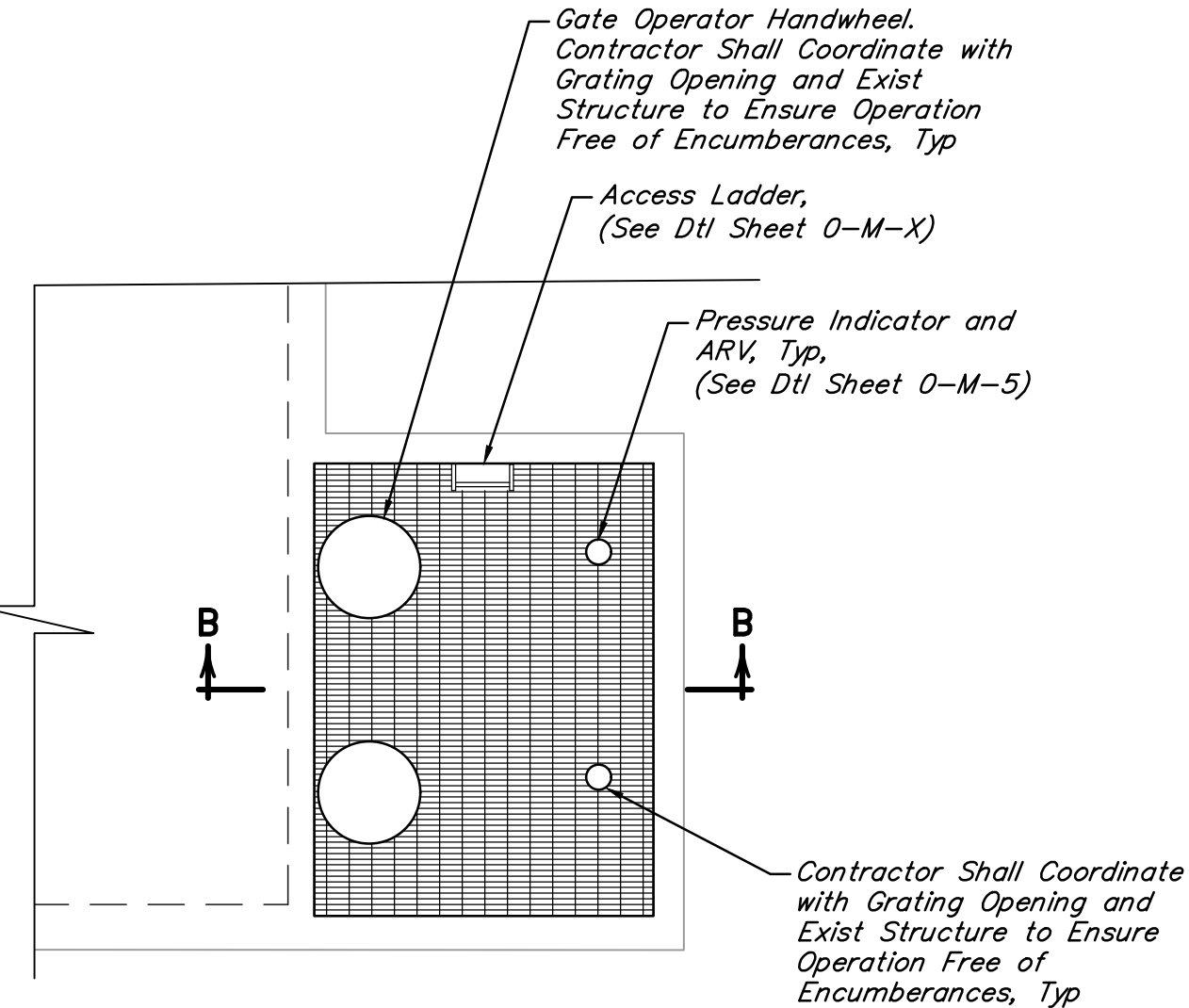
No.	DESCRIPTION	No.	DESCRIPTION
①	20" 90° Bend, FJ	⑧	20" Concentric Reducer, FJ (See Note 6)
②	20" Dismantling Joint (DJ-01-101)	⑨	24" x 24" x 20" Tee, FJ
③	20" Knife Gate Valve (KGV-01-101)	⑩	24" Dismantling Joint (DJ-01-003)
④	20" Swing Check Valve (SCV-01-101)	⑪	24" Knife Gate Valve (KGV-01-003)
⑤	3" Air & Vacuum Valve (AVV-01-101) and 3" Ball Valve (BV-01-101)	⑫	1/2" Ball Valve (BV-01-004) and Pressure Indicator Transmitter (PIT-01-002)
⑥	6" 90° Bend, FJ	⑬	3" Air Release Valve (ARV-01-002) and 3" Ball Valve (BV-01-003)
⑦	4" Duckbill Check Valve (DBV-01-001)	⑭	Pressure Indicator (PI-01-101) and 1/2" Ball Valve (BV-01-102)

ITEMS OF WORK
(ALTERNATE BID ITEMS)

No.	DESCRIPTION
A1	Install 6" Drain Inlet w/ P-Trap and 4" DI Drain Line w/ wall collars.
A2	Install 6" DI-Drain (Force Main) w/ Wall Penetration.

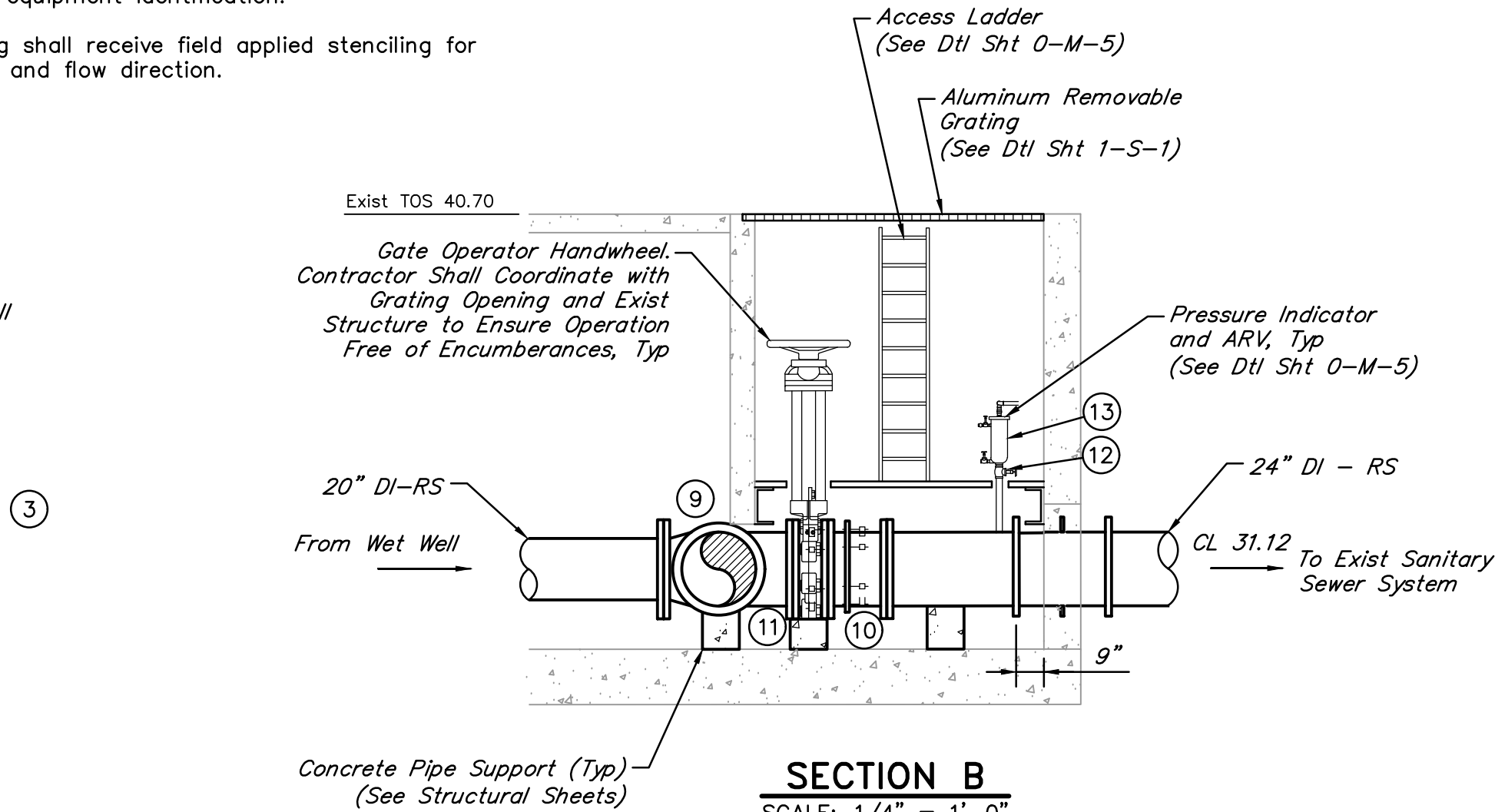
NOTES:

- Pump shelf shall be required as per pump manufacturer.
- The access hatch requires a rigid safety grate fall prevention system with less than three inch (3") openings between the grate and any edge of the hatch opening.
- Contractor shall verify the minimum required pump access hatch size with the Pump manufacturer. The minimum size is shown.
- Provide a PVC coated weight at the end of the stainless steel float controls cable.
- Contractor shall coordinate with supplied Pump Manufacturer to ensure grout in wet well is outside the minimum required clearance area for the pumps.
- Coordinate reducer with approved pump manufacturer submittal and base elbows.
- Contractor shall field verify horizontal and vertical location of exist 42" and 60" wall penetrations and submit field findings for review by Engineer prior to submittal and fabrication of proposed gates.
- Contractor shall field locate the location of the proposed cable holders so as to ensure unimpeded installation of pumps and operation of safety grating.
- Contractor shall apply protective coating to all proposed above ground and below ground piping per project specifications. Contractor shall label pump access hatches, riser piping and force main header piping in the valve vault correspond to the respective pump number as applicable.
- All existing structures, dimensions, locations, elevations, and materials shown are based on City of Houston's record drawings. Contractor shall field verify existing dimensions, locations, elevations, and materials as required to complete the work and as directed by the Engineer. Field verification shall be incidental to the work.
- All aluminum grating and access hatches shall receive shop applied power coating, color COH forest green.
- Access hatch covers shall receive field applied stenciling for equipment identification.
- Process piping shall receive field applied stenciling for process fluid, and flow direction.



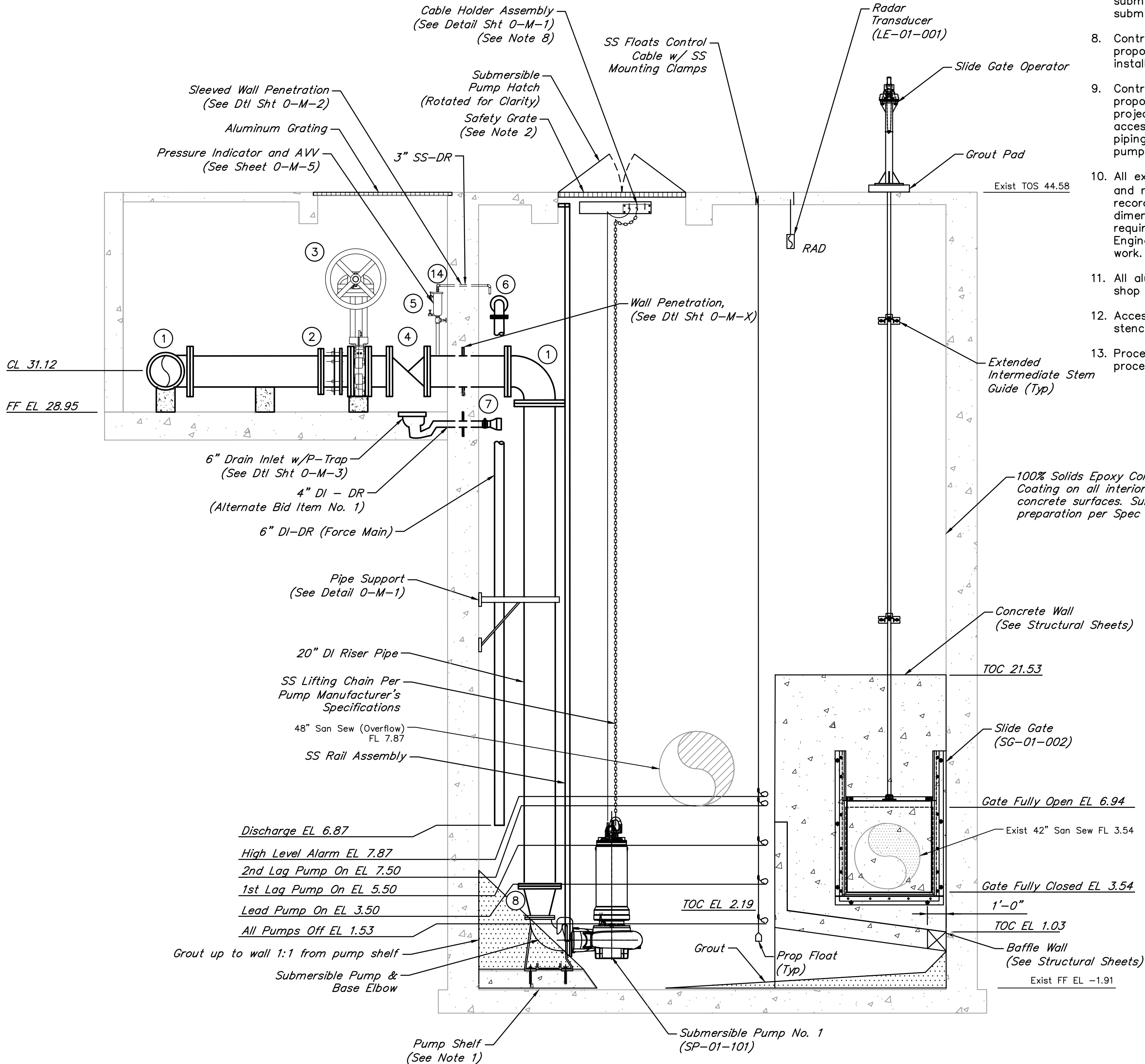
MID LEVEL GRATING PLAN

SCALE: 1/4" = 1'-0"



LIFT STATION OPERATION TABLE

RISING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
3.50	LEAD PUMP TURNS ON	LEAD PUMP TURNS ON
5.50	1st LAG PUMP TURNS ON	LEAD AND 1st LAG PUMP TURNS ON
7.50	2nd LAG PUMP TURNS ON	LEAD AND TWO LAG PUMPS TURNS ON
7.87	HIGH LEVEL ALARM	LEAD AND TWO LAG PUMPS RUNNING
FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
7.87	HIGH LEVEL ALARM TURNS OFF	LEAD AND TWO LAG PUMPS ON
1.53	ALL PUMPS TURN OFF	NONE



SECTION A

SCALE: 1/4" = 1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

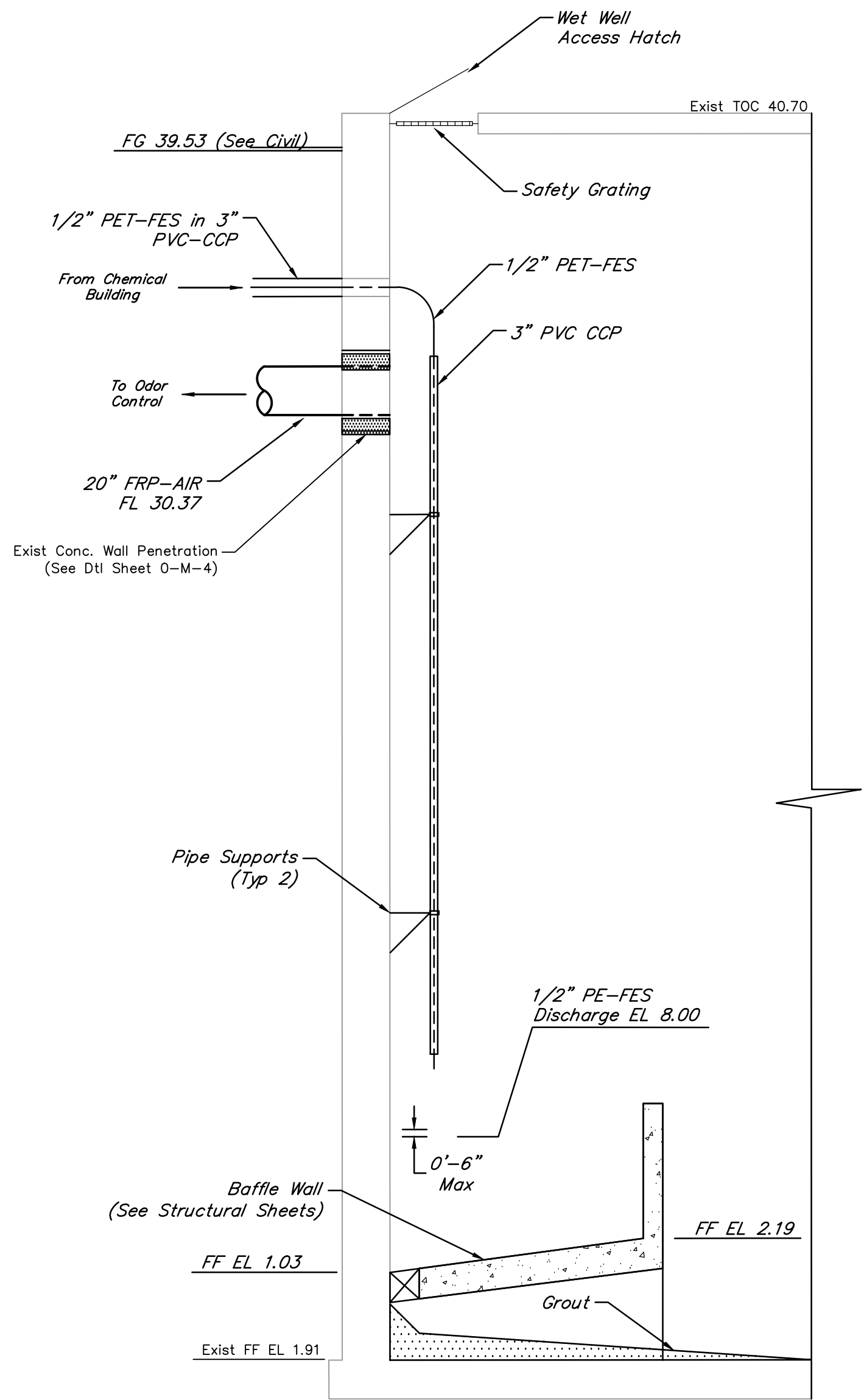
DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

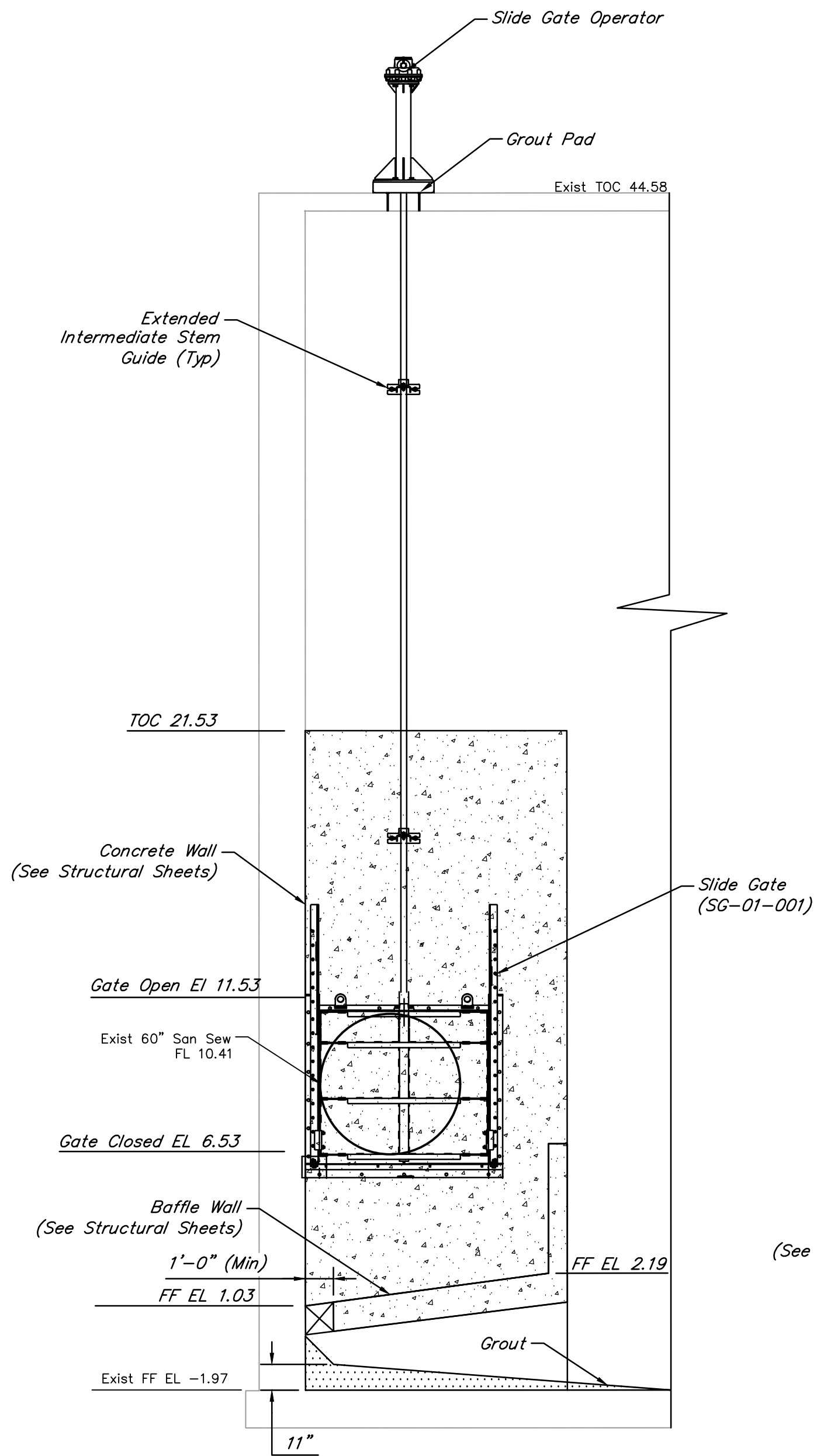
SCOTT STREET No. 1
LIFT STATION REHABILITATION
DRY WEATHER PUMP
STATION IMPROVEMENTS
SECTION 1 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

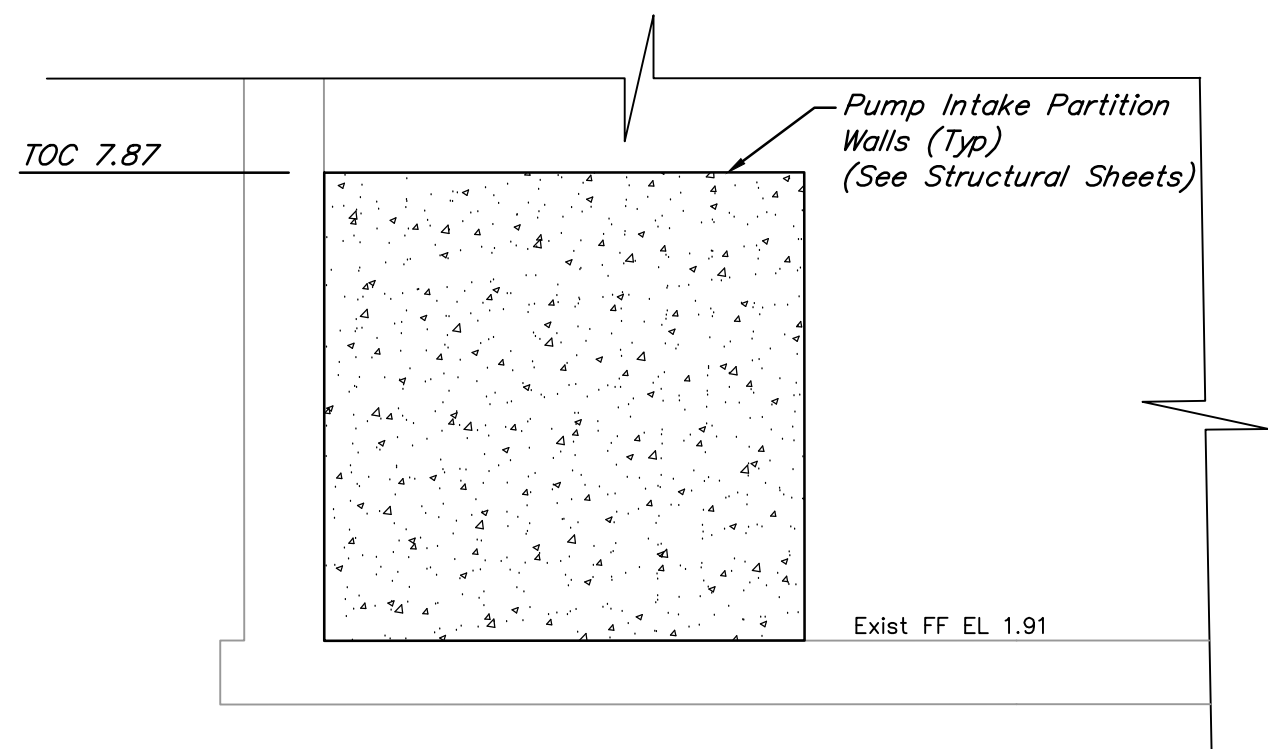
DRAWING SCALE 1/4"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. **1-M-4** SHEET NO. 35 OF XXX
FOR CITY OF HOUSTON USE ONLY



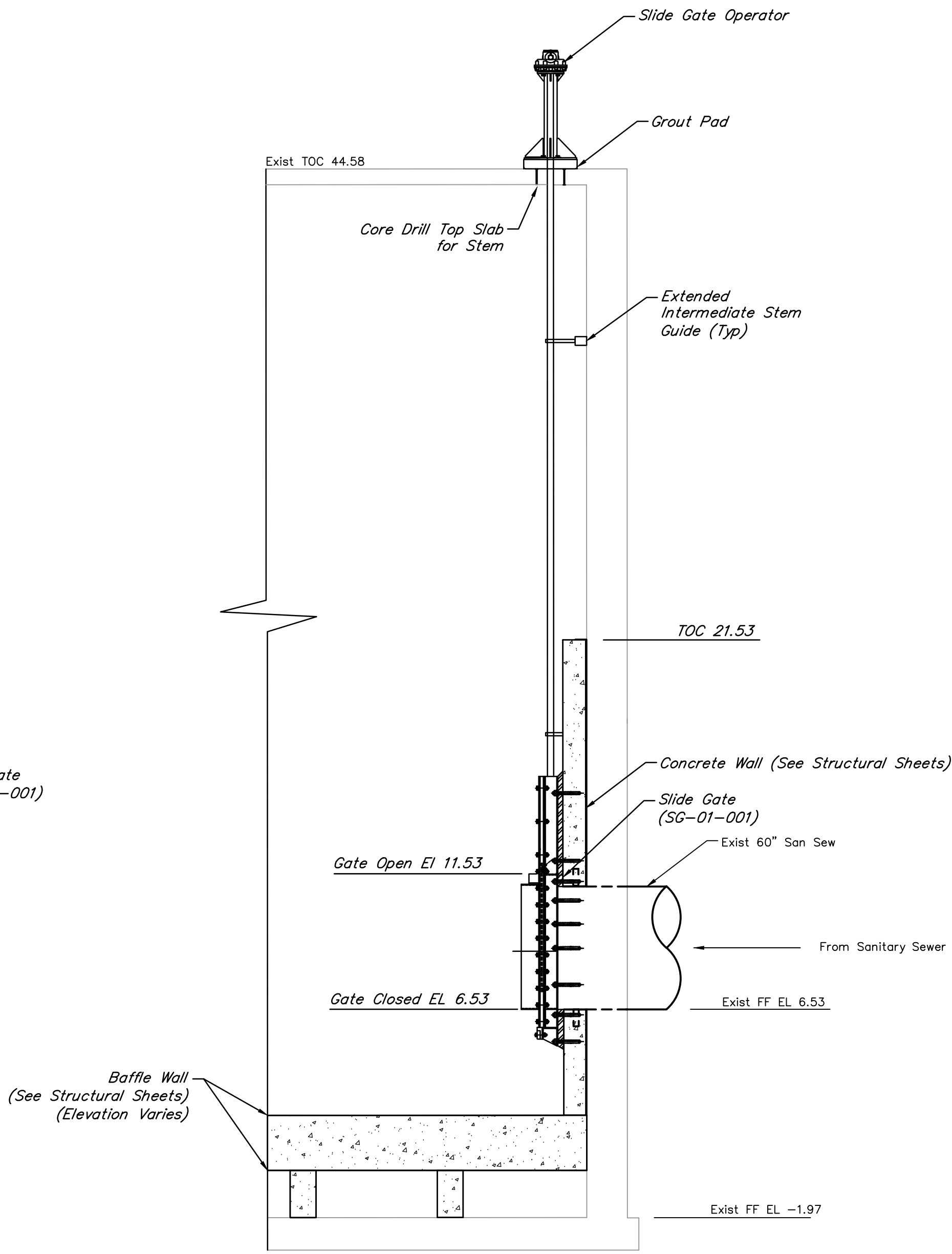
SECTION C
SCALE: 1/4" = 1'-0"



SECTION D
SCALE: 1/4" = 1'-0"




SECTION F
SCALE: 1/4" = 1'-0"



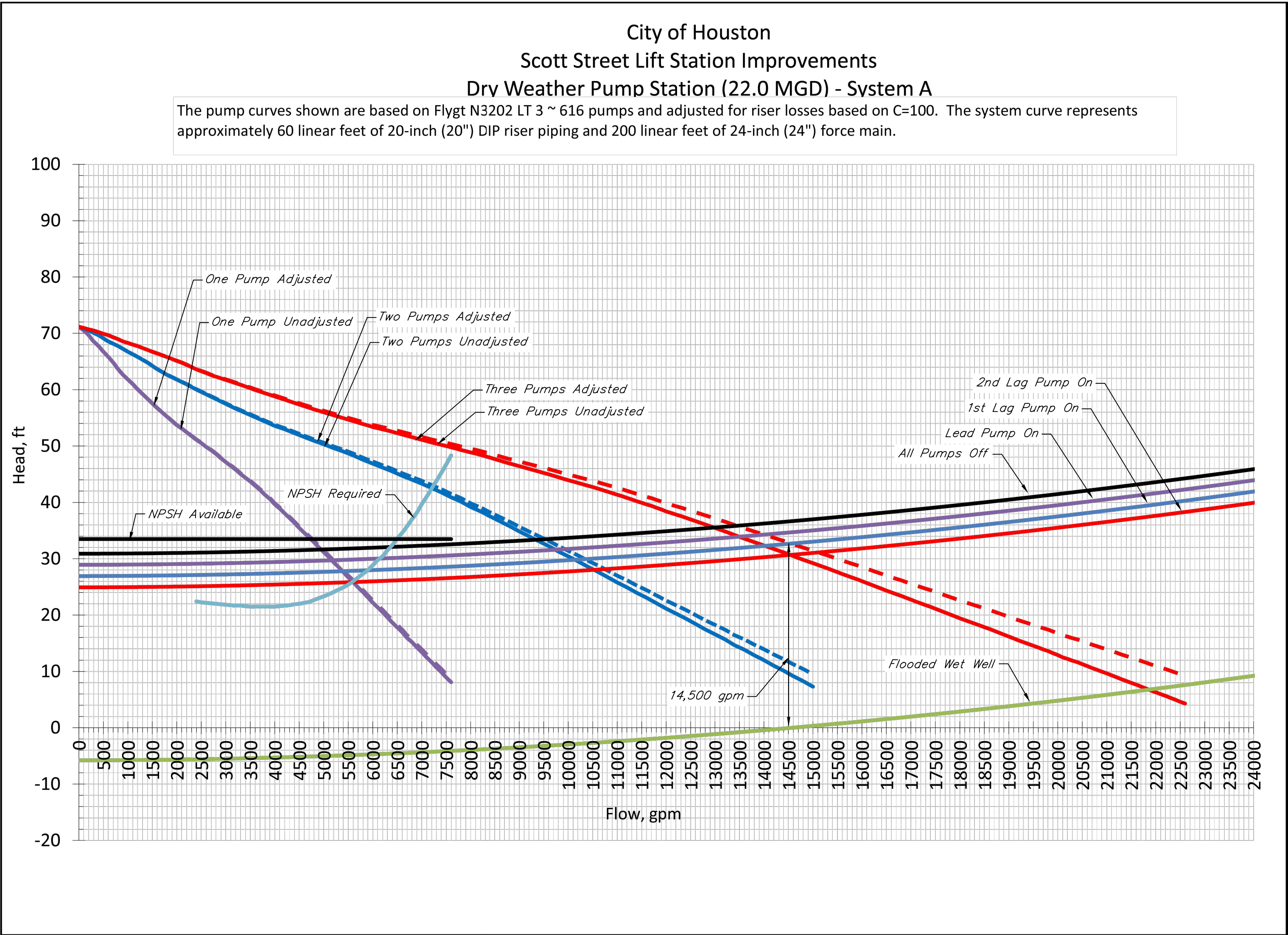
SECTION E
SCALE: 1/4" = 1'-0"

NOTES:

- Contractor shall field verify horizontal and vertical location of exist 42" and 60" wall penetrations and submit field findings for review by Engineer prior to submittal and fabrication of proposed gates.
- All existing structures, dimensions, locations, elevations, and materials shown are based on City of Houston's record drawings. Contractor shall field verify existing dimensions, locations, elevations, and materials as required to complete the work and as directed by the Engineer. Field verification shall be incidental to the work.

NO.	DATE	REVISIONS	APP.
<div>INTERIM REVIEW Not intended for construction, bidding or permit purposes. Engineer: HARRY W. ISENSEE III, P.E. P.E. Serial No.: 144401 Date: NOVEMBER 2025</div>			
<div>QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337</div>			
CITY OF HOUSTON HARRIS COUNTY, TEXAS			
DATE: JULY 2025	DGN BY: CTHOMAS		
JOB NO: 00050-0099-01	DWG BY: CHUDSON		
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES			
SCOTT STREET No. 1 LIFT STATION REHABILITATION DRY WEATHER PUMP STATION IMPROVEMENTS SECTION 2 OF 2			
CITY OF HOUSTON HOUSTON PUBLIC WORKS			
DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX			
CATEGORY NO. 1-M-5 SHEET NO. 36 OF XXX			
FOR CITY OF HOUSTON USE ONLY			

SYSTEM A			
PUMP DATA	1 PUMP OPERATING IN OLD DUCTILE IRON PIPE (C=100)	2 PUMP OPERATING IN OLD DUCTILE IRON PIPE (C=100)	3 PUMP OPERATING IN OLD DUCTILE IRON PIPE (C=100)
FLOW (GPM)	5,093	10,186	15,278
TDH (FT.)	31.4	32.1	33.5
MIN. OVERALL EFF. (%)	70	70	70
STATIC HEAD (FT.)	28.92	26.92	24.92
SHAFT HP (MAX.)	50	100	150
RPM (MAX.)	1,175	1,175	1,175



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

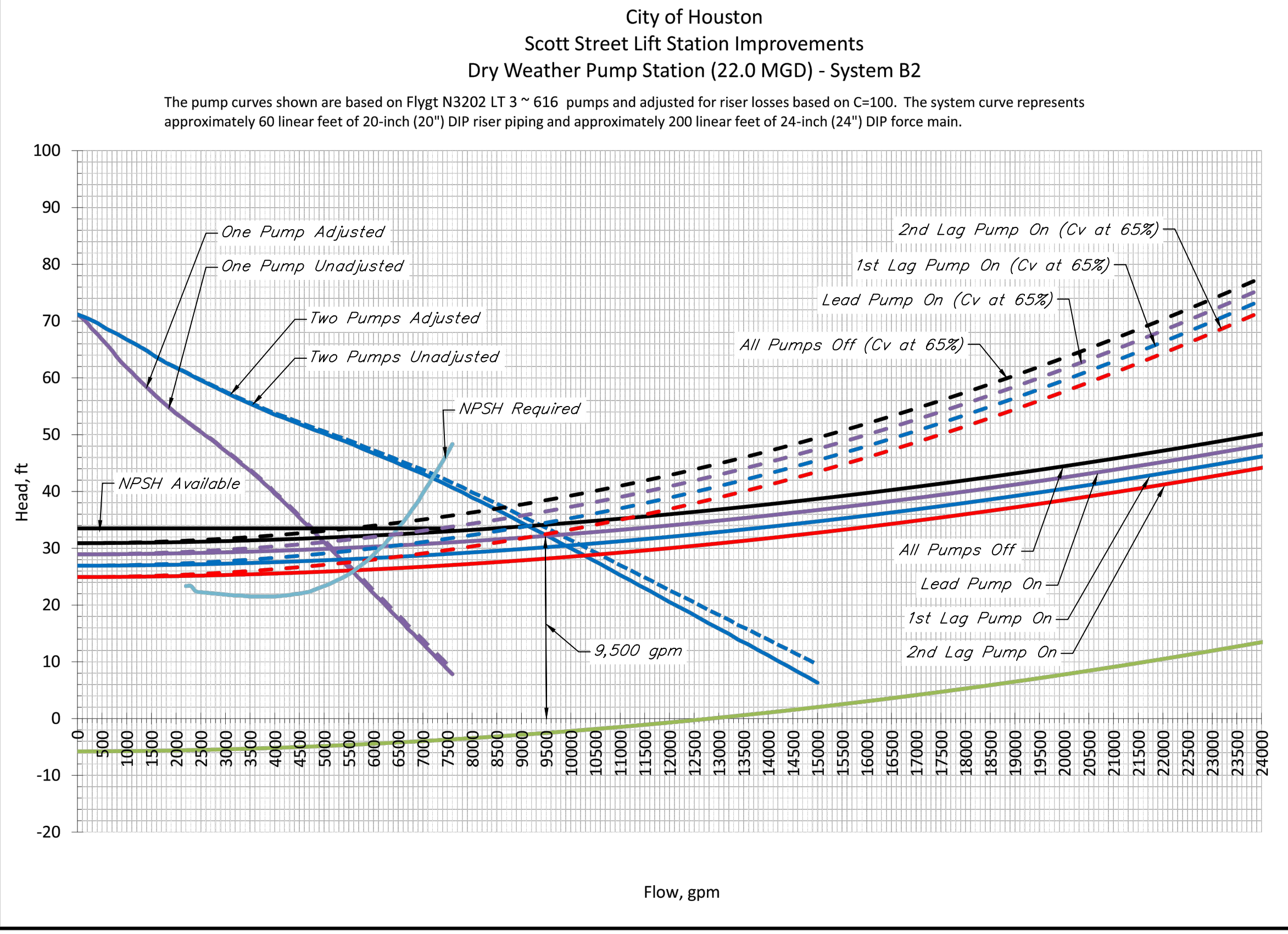
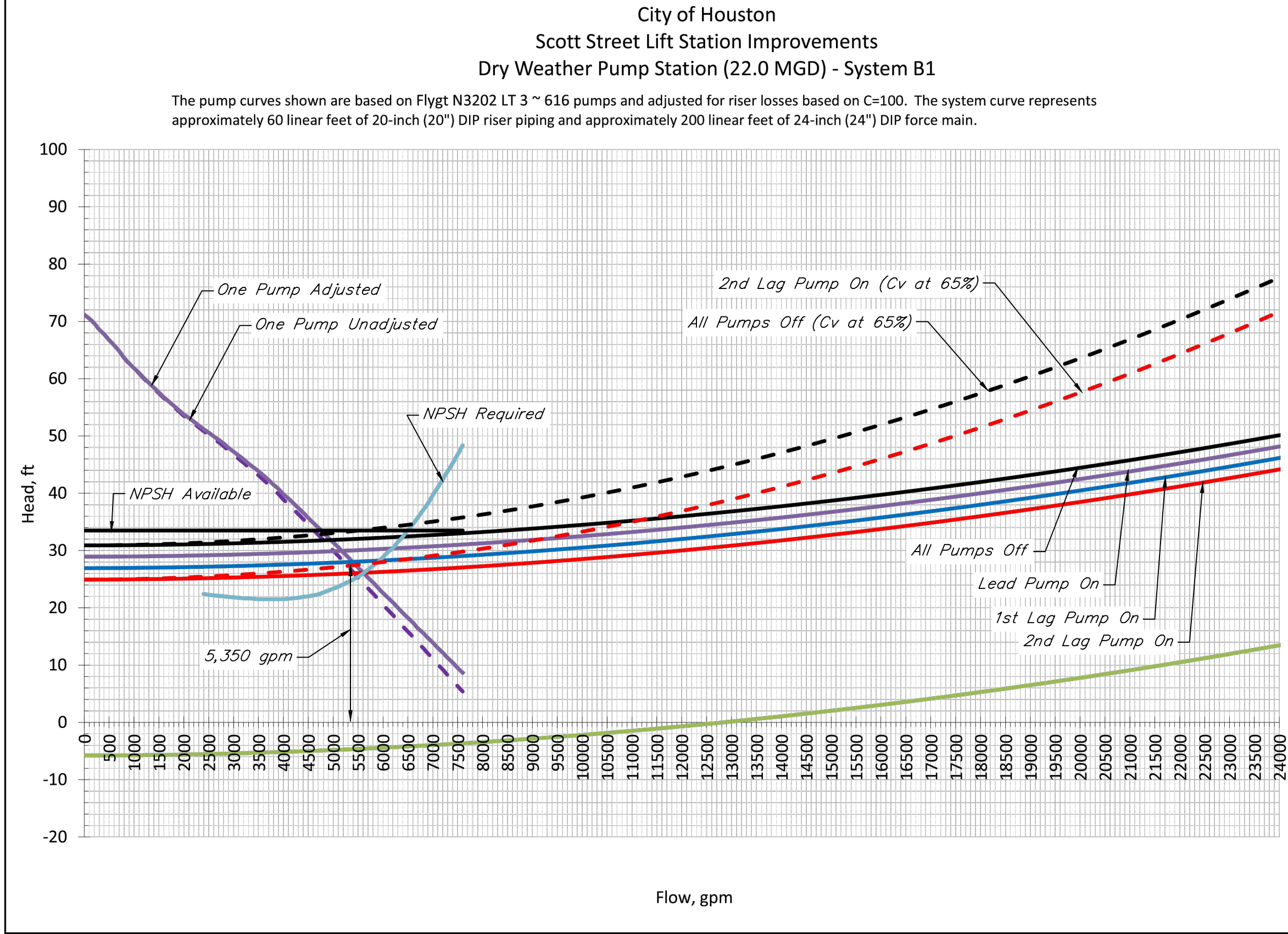
DATE: JANUARY 2026 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
DRY WEATEHR PUMP STATION
PUMP DATA AND CURVES
SHEET 1 OF 1

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NONE HORIZ: XXX VERT: XXX
CATEGORY NO. 1-M-6 SHEET NO. 37 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: CTHOMAS
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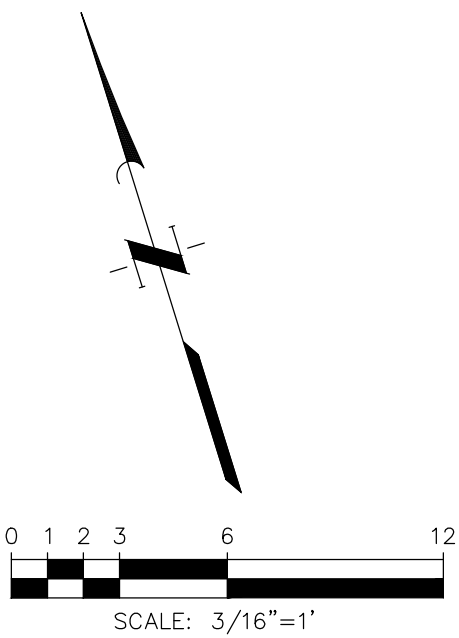
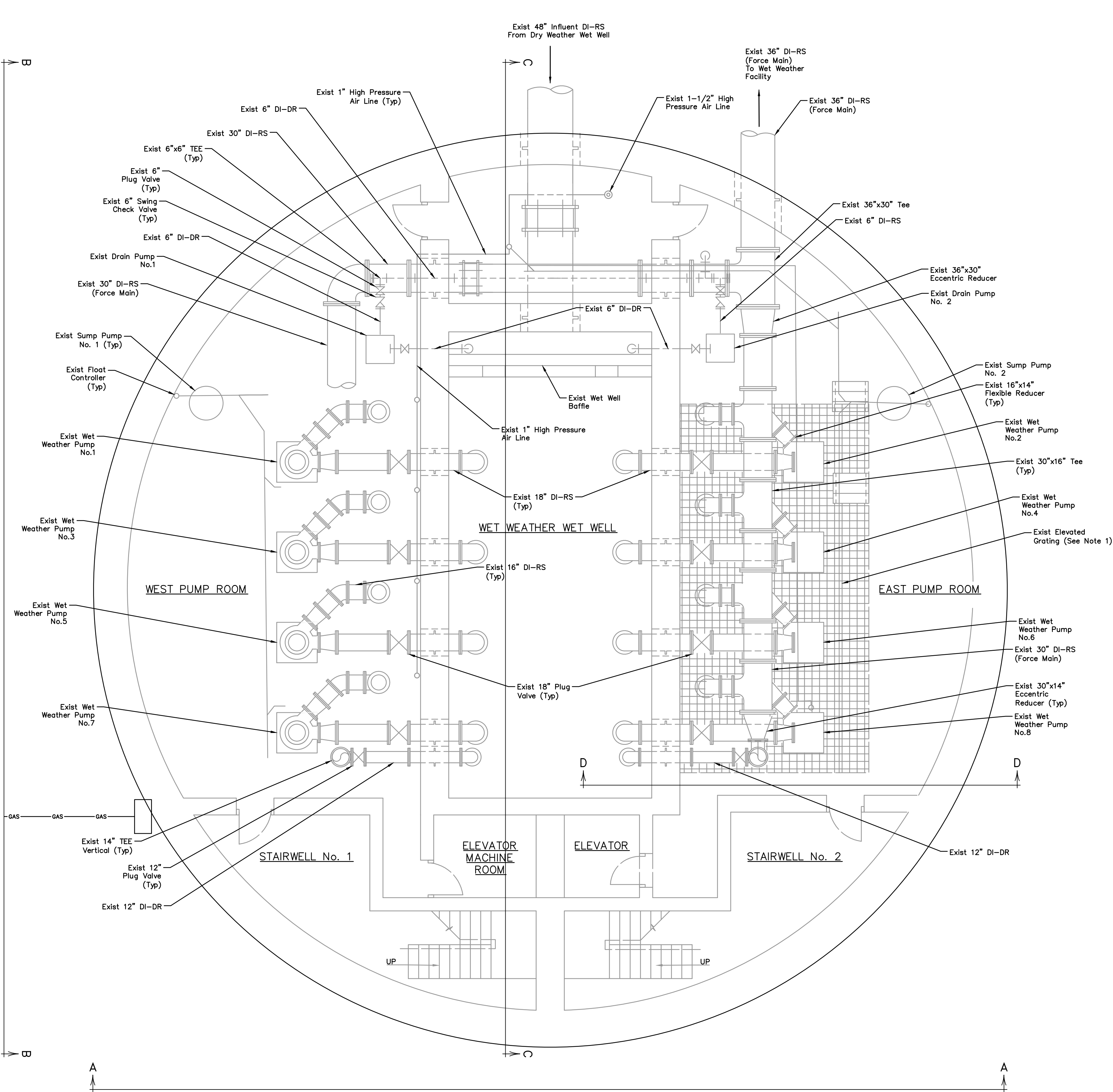
SCOTT STREET No. 1
LIFT STATION REHABILITATION
DRY WEATHER PUMP STATION
PUMP DATA AND CURVES
SHEET 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX

CATEGORY NO. 1-M-7 SHEET NO. XXX OF XXX

FOR CITY OF HOUSTON USE ONLY



- NOTES:**
- Grating not shown on West Pump Room only for Clarification. West Room Grating is a Mirrored Set-Up from East Pump Room.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

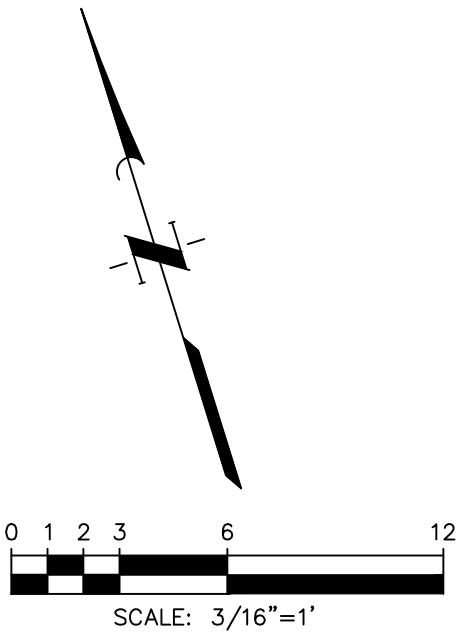
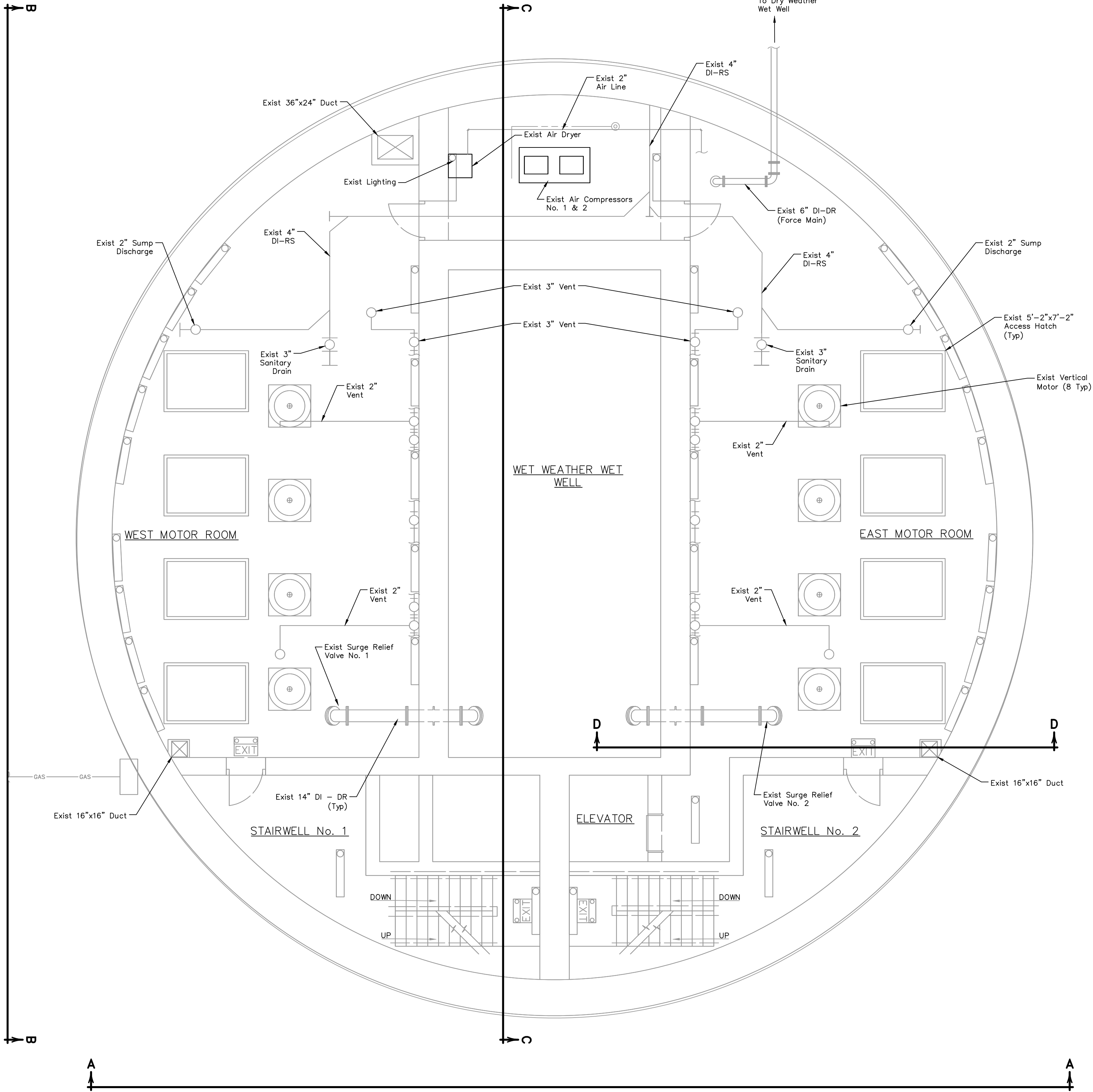
SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
LOWER LEVEL-EXISTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-1 SHEET NO. 38 OF XXX
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

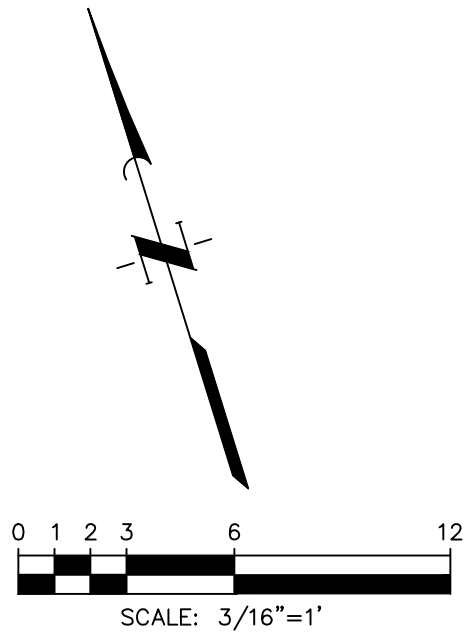
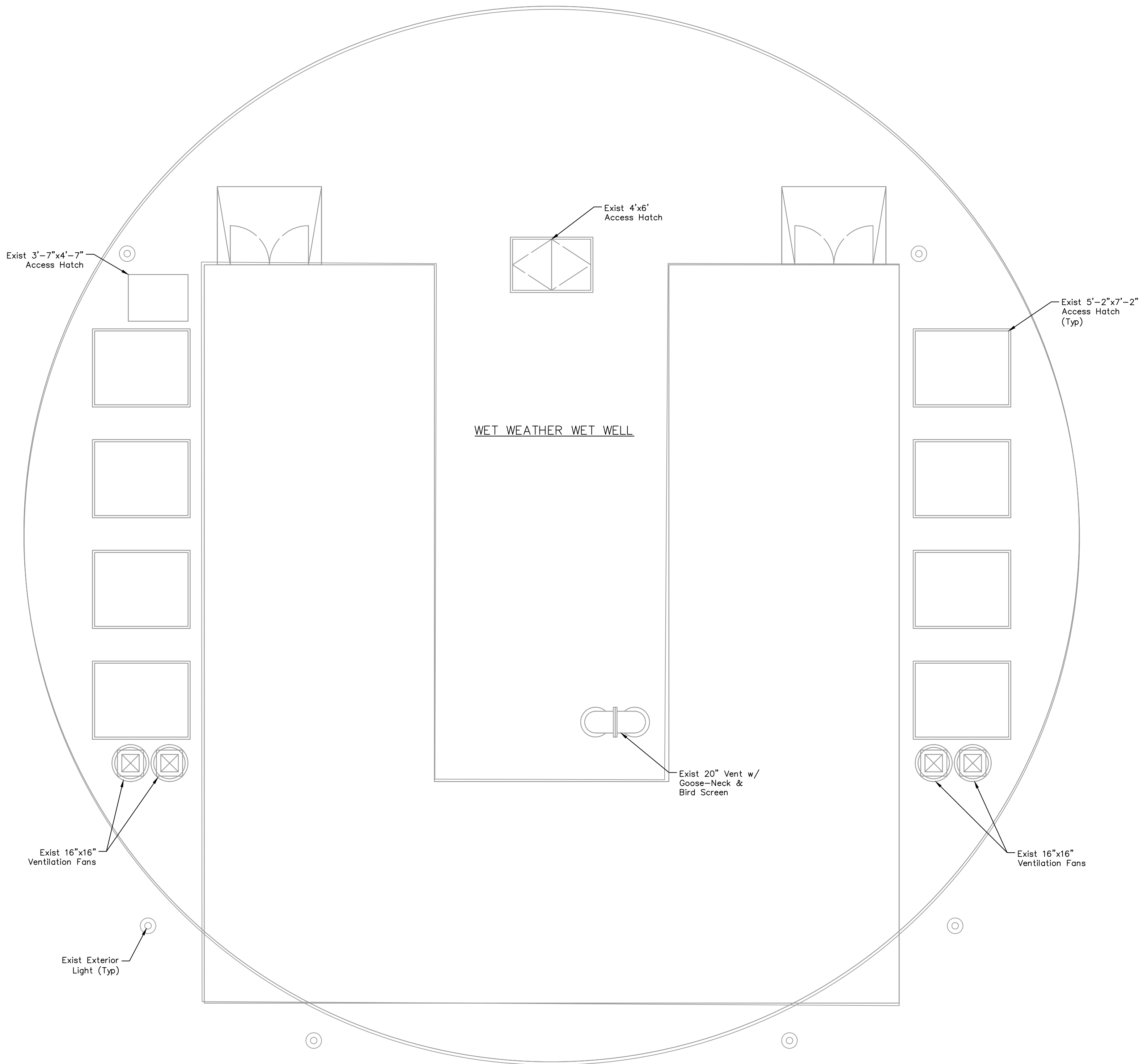
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
MEZZANINE LEVEL-EXISTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-2 SHEET NO. 39 OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

1. Interior Excluded for Clarity.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

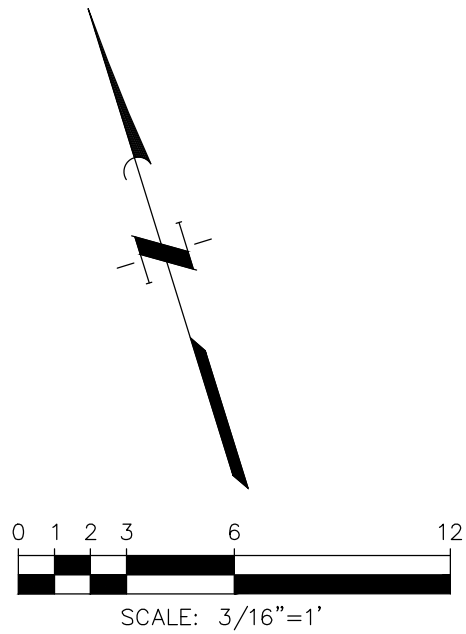
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

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SCOTT STREET No. 1
LIFT STATION REHABILITATION
**WET WEATHER LIFT STATION
GROUND LEVEL EXTERIOR –
EXISTING**

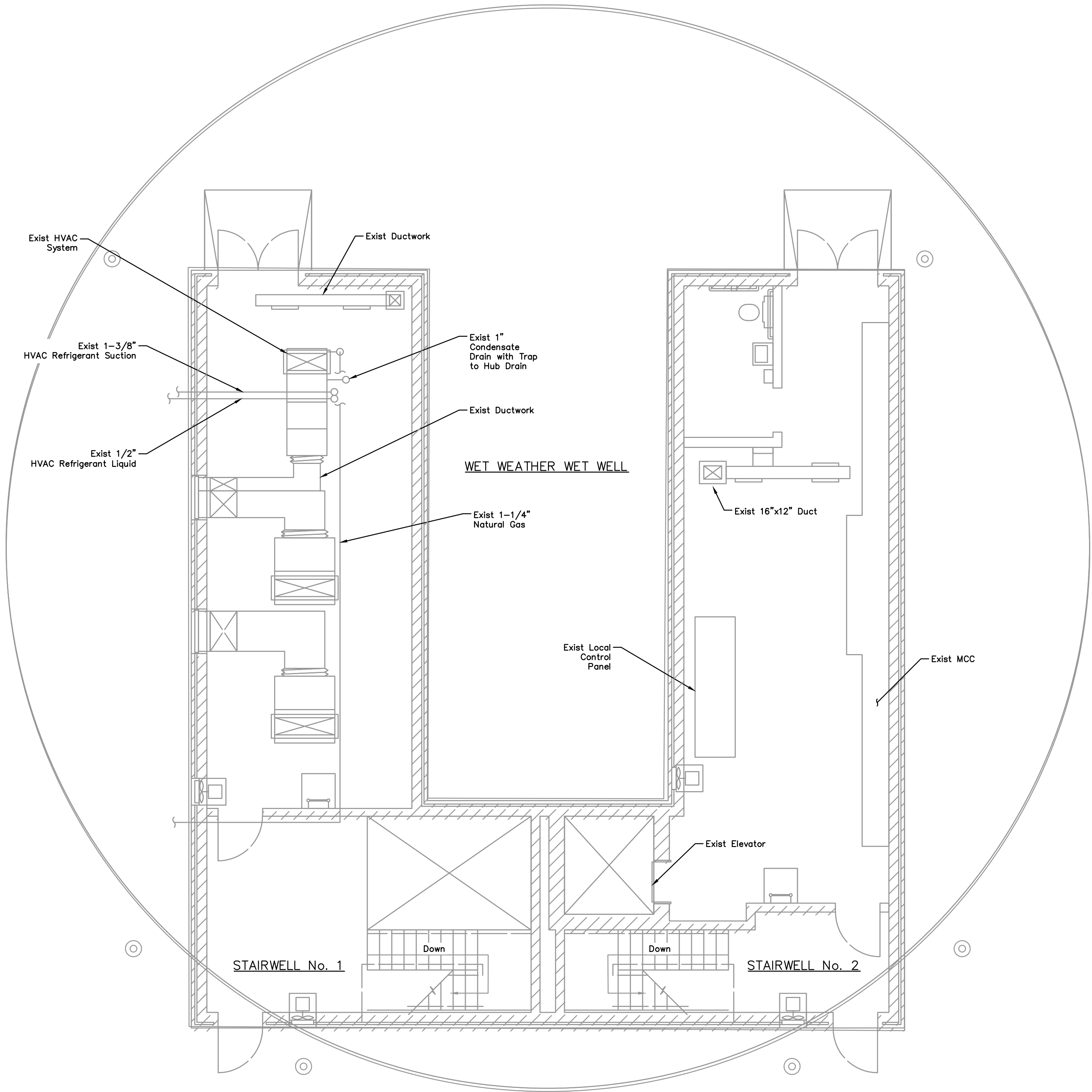
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-3** SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

1. Exterior Excluded for Clarity.



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

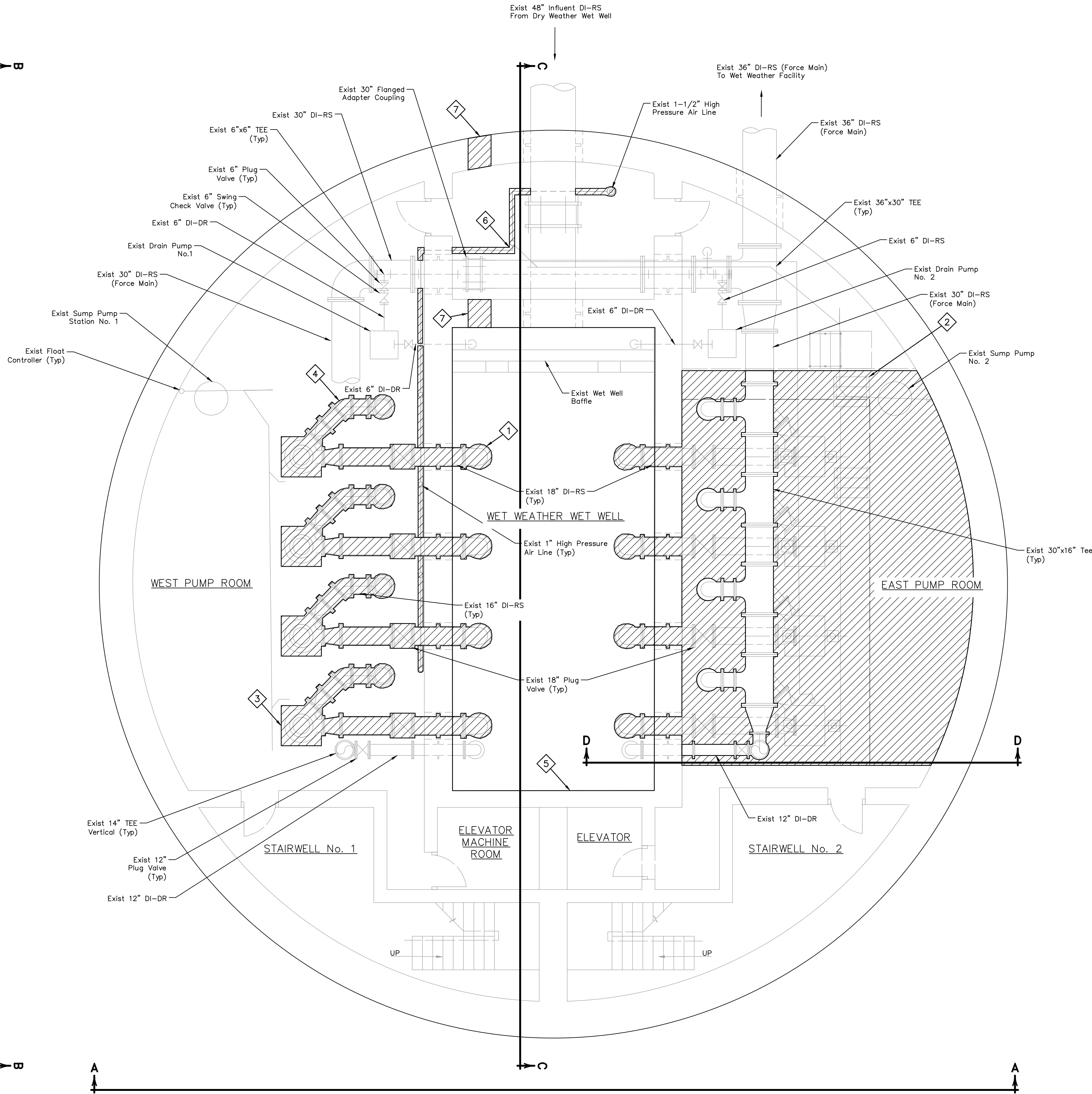
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

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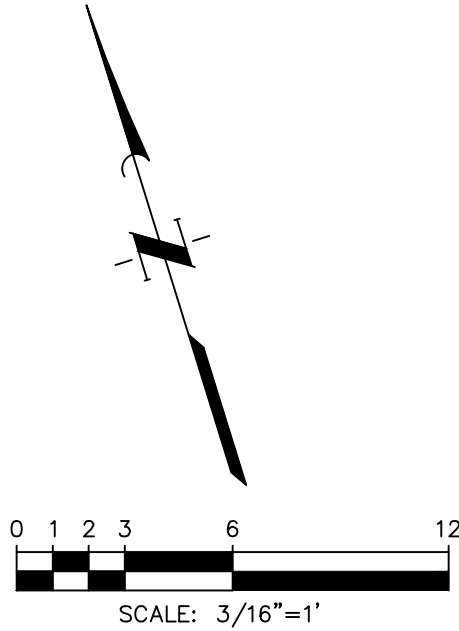
SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
GROUND LEVEL
INTERIOR-EXISTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-4 SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY



ITEMS OF WORK	
No.	DESCRIPTION
1	Demolish Existing 18" Suction Piping, Wall Thimble, Valves, Supports, and Hardware Related to the Wet Weather Pumps (Typ 8).
2	Demolish all Grating Supports, Handrails and Miscellaneous Metals Related to the Elevated Platform. Contractor Shall Grind Down Anchors and Cover with Grout.
3	Demolish Existing Wet Weather Pumps, Associated Concrete Supports, Small Diameter Piping, Shaft, Controls, Conduit, Wire and Related Accessories.
4	Demolish Existing 16" Discharge Piping to the Vertical Portion of the Pipe, Valves, Small Diameter Air Piping to the Flow Control valves, Supports and Miscellaneous Metals.
5	Demolish Existing T-LOK Liner Inside of the Wet Well.
6	Demolish Existing Air Compressor, High Pressure Air Piping, and Electrical Controls.
7	Contractor to Core Through the Existing Walls to Allow for Construction of the 8-inch Force Main Drain line.



LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
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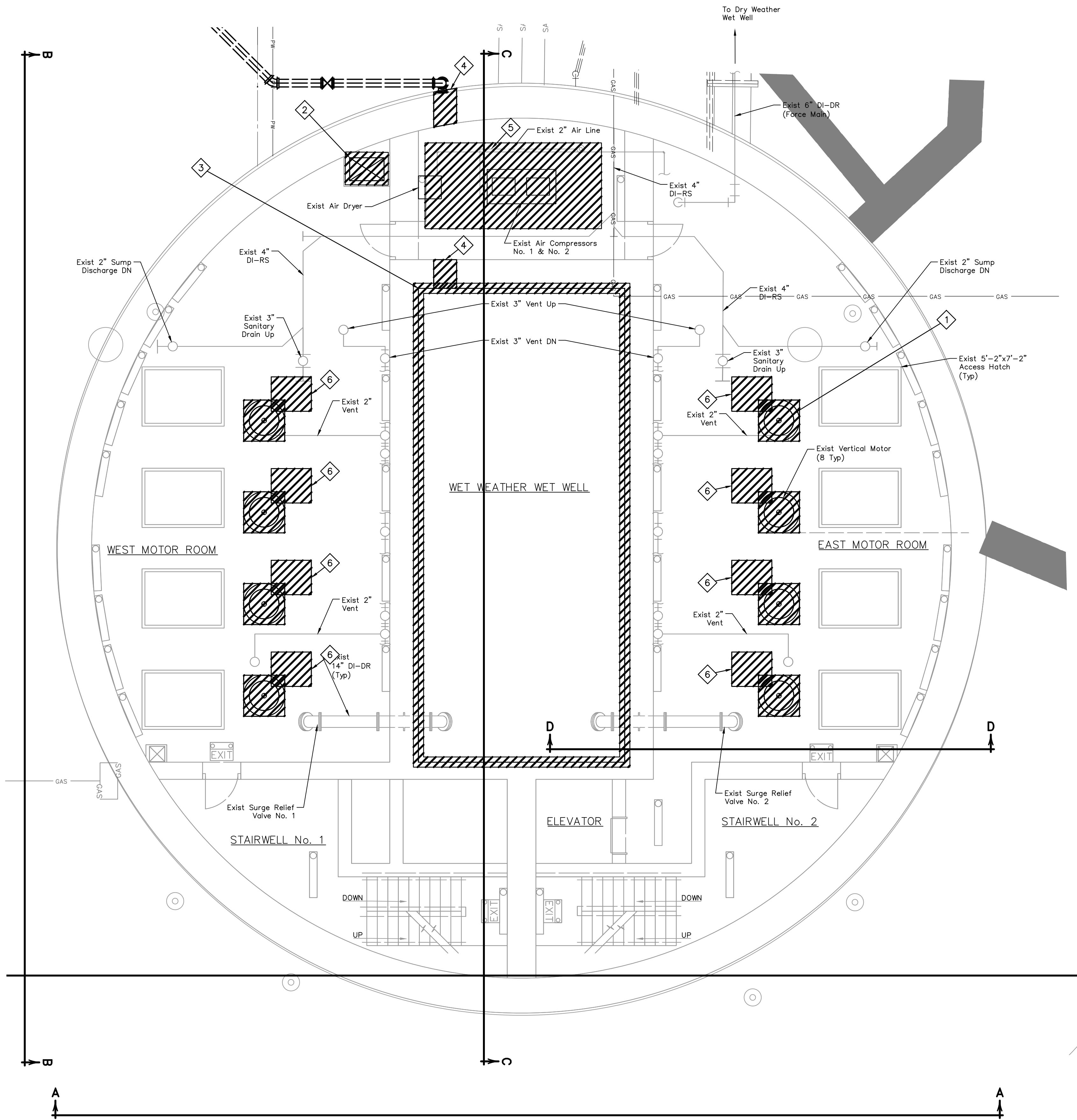
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

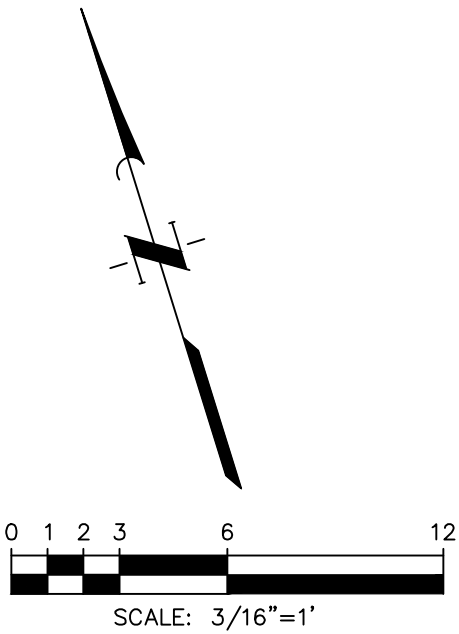
WET WEATHER LIFT STATION
LOWER LEVEL-DEMOLITION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-5 SHEET NO. 42 OF XXX
FOR CITY OF HOUSTON USE ONLY



ITEMS OF WORK	
No.	DESCRIPTION
1	Demolish the Existing Motors from the Wet Weather Pumps, Conduit, Wire Associated with the Motor.
2	Demolish Existing Air Ducts, Supports, and Hardware.
3	Demolish T-LOK Liner Inside Wet Well.
4	Contractor to Core through the Existing Walls to Allow for Construction of the FRP Duct Works.
5	Demolish Existing Air Compressor, High Pressure Air Piping, and Electrical Controls.
6	Contractor to install Access Hole with Removable Grating.



LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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P.E. Serial No.: 125999
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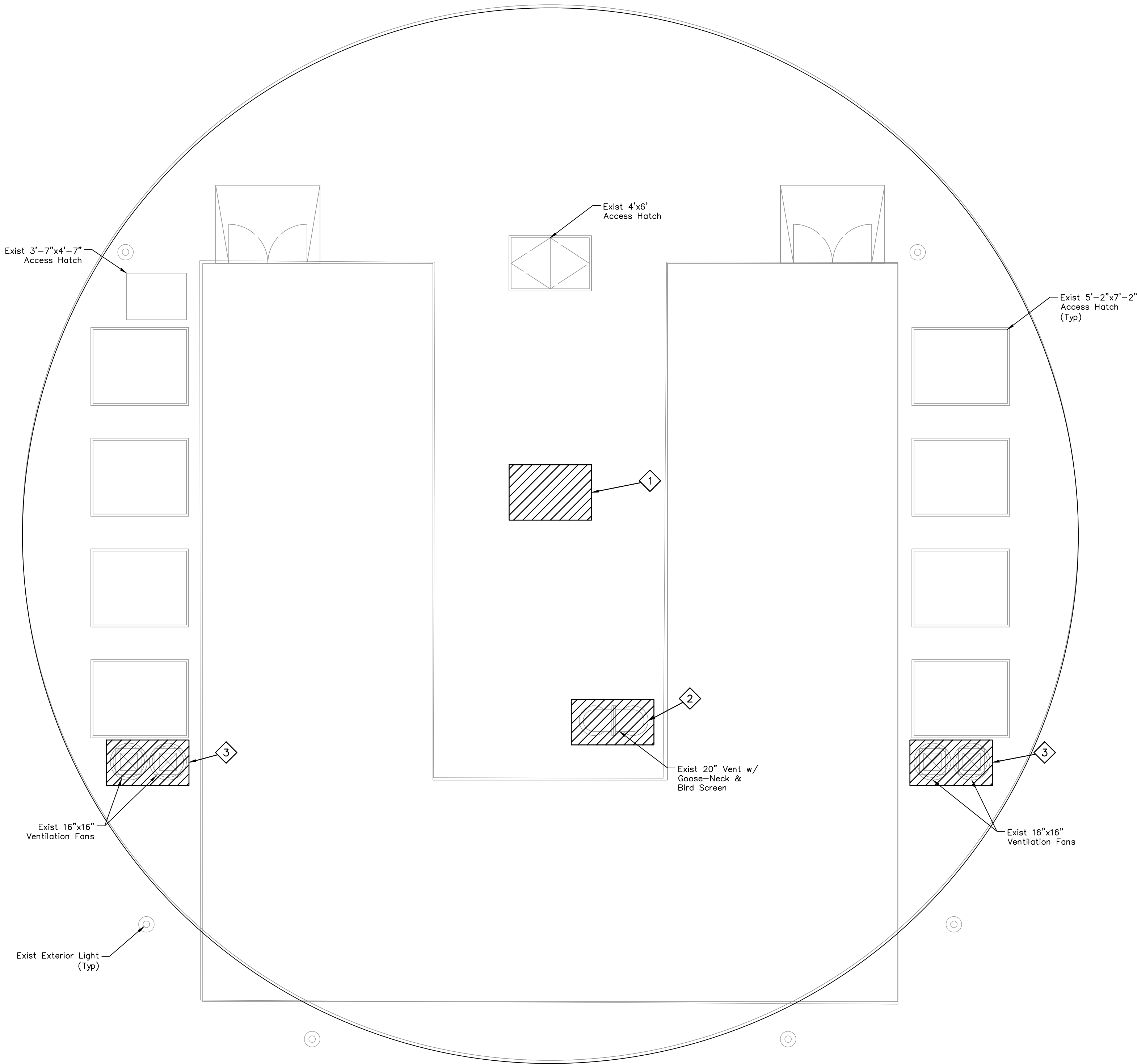
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

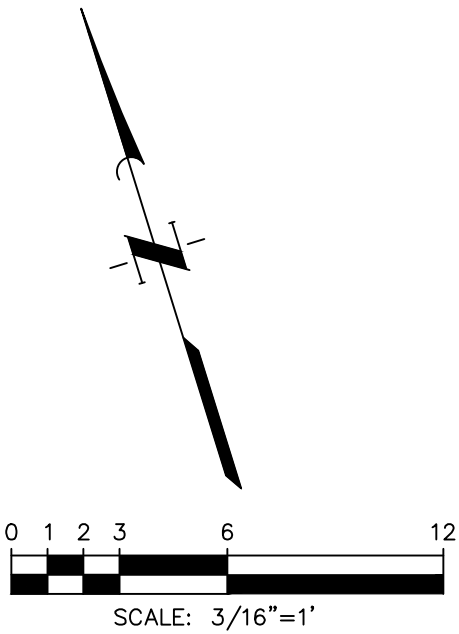
WET WEATHER LIFT STATION
MEZZANINE LEVEL-DEMOLITION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-6 SHEET NO. 43 OF XXX
FOR CITY OF HOUSTON USE ONLY



ITEMS OF WORK	
No.	DESCRIPTION
1	Contractor Shall Saw Cut the Existing Top Slab. See Structural Sheets.
2	Disconnect and Demolish Existing Exterior Ventilation Fans.
3	Demolish Existing 20" Vent with Goose-neck & Bird Screen.



NOTES:

1. Interior Excluded for Clarity.

LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

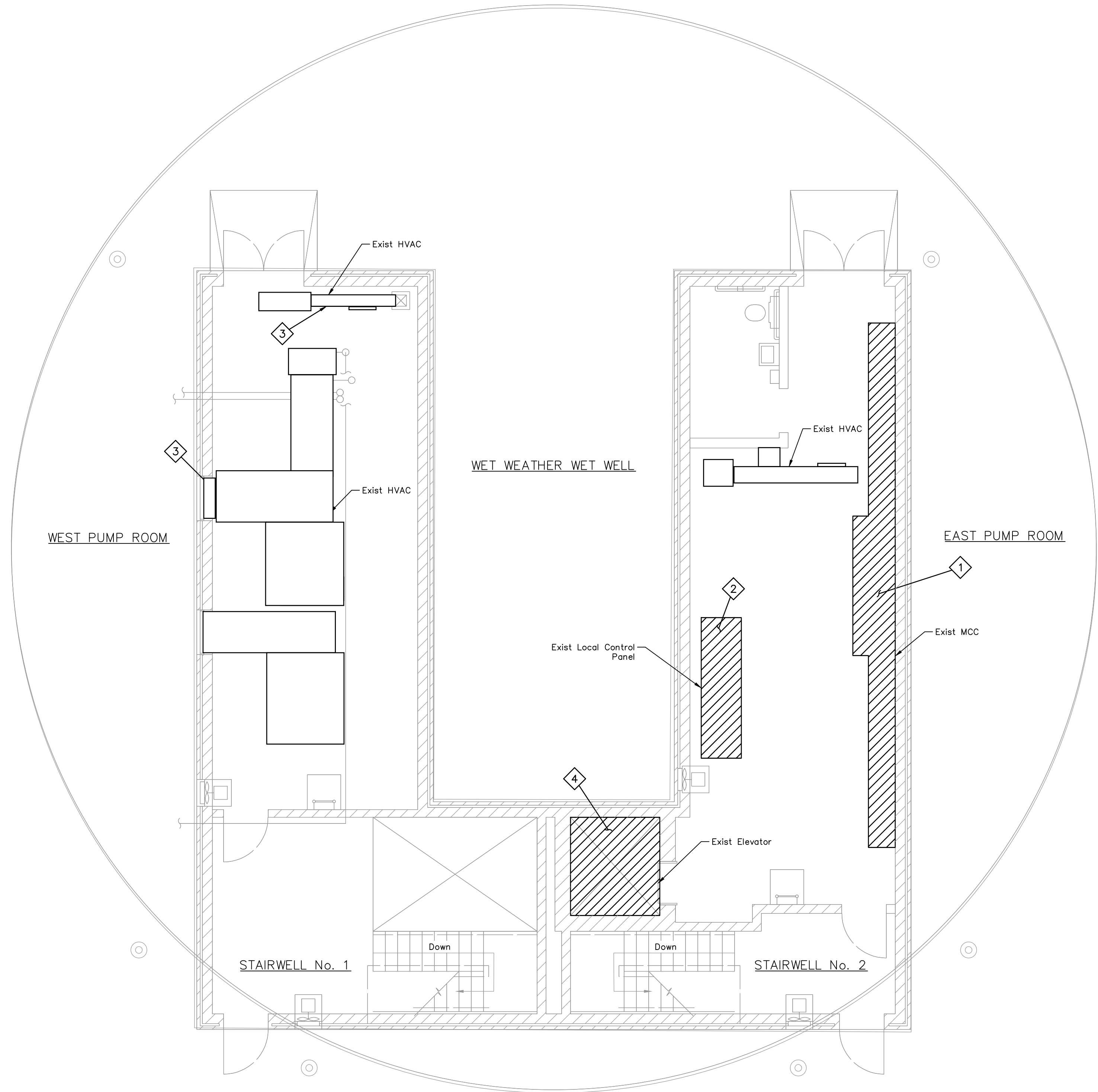
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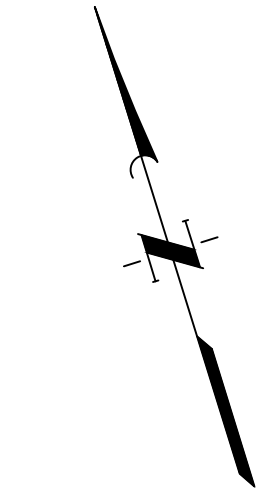
SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
GROUND LEVEL EXTERIOR –
DEMOLITION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-7 SHEET NO. 44 OF XXX
FOR CITY OF HOUSTON USE ONLY



ITEMS OF WORK	
No.	DESCRIPTION
1	Demolish Existing MCC Conduit and Wiring Related to the MCC.
2	Demolish Existing Local Control Conduit and Wiring Related to the Local Control Panel.
3	See HVAC Sheets
4	Decommission and Dismantle Existing Elevator.



NOTES:

1. Exterior Excluded for Clarity.

LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

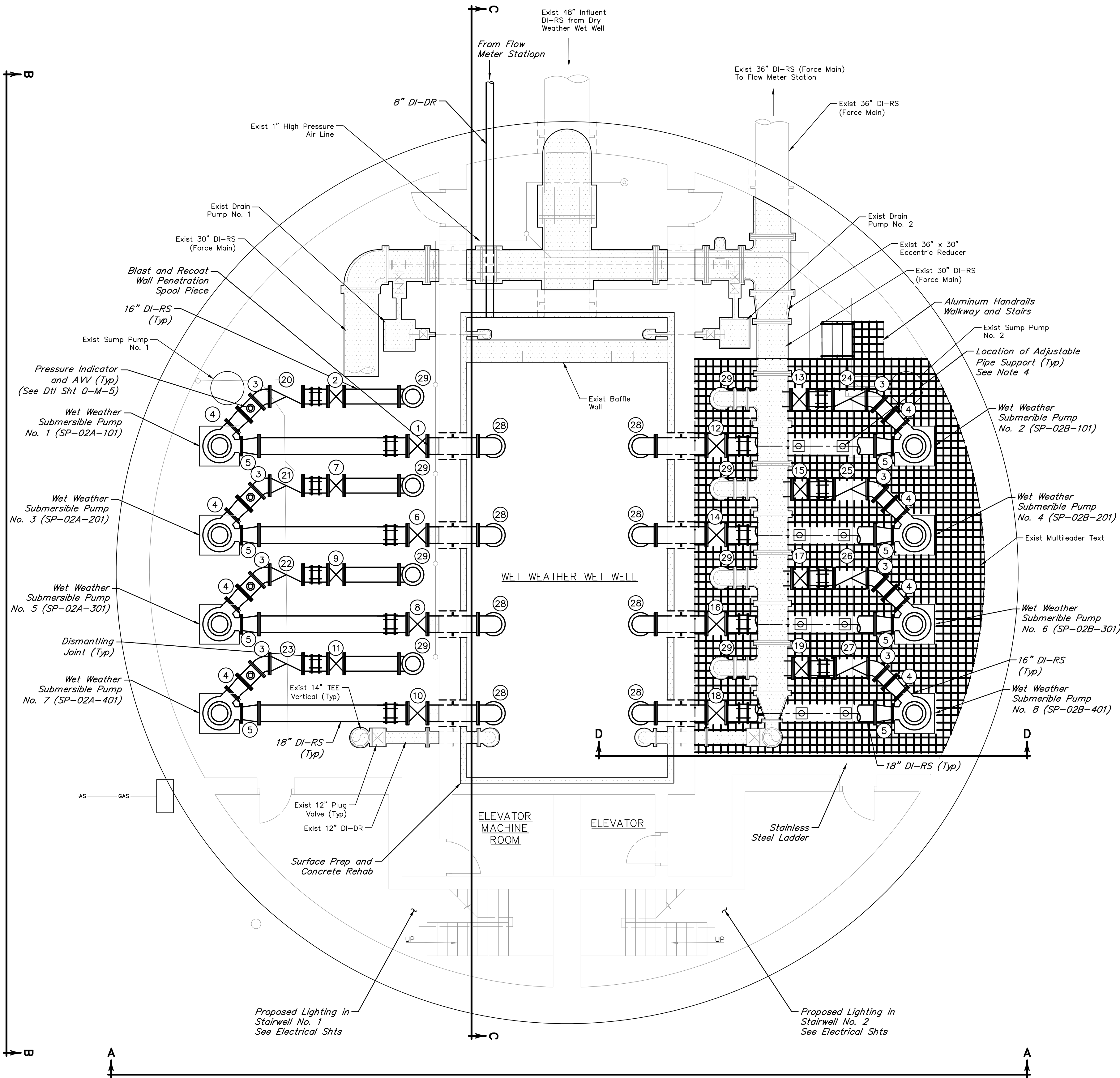
DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
GROUND LEVEL
INTERIOR-DEMOLITION

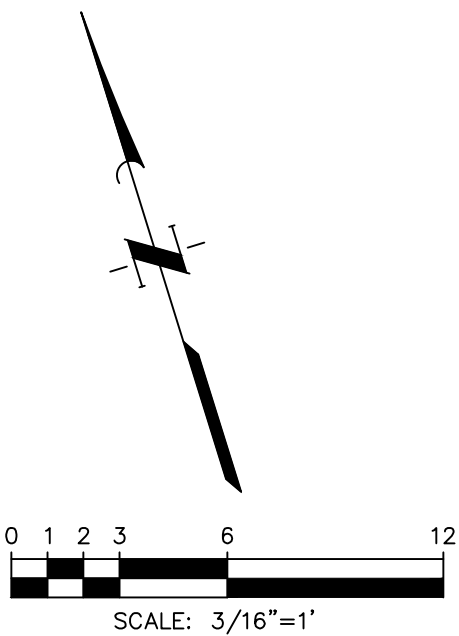
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-8** SHEET NO. 45 OF XXX
FOR CITY OF HOUSTON USE ONLY

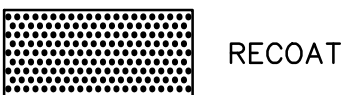


VALVE AND ACCESSORIES SCHEDULES

No.	DESCRIPTION
①	18" Actuated Plug Valve, FJ (PV-02A-101)
②	16" Actuated Plug Valve, FJ (PV-02A-102)
③	16" 45° Bend, FJ
④	14"x16" Reducer, FJ
⑤	14"x18" Reducer, FJ
⑥	18" Actuated Plug Valve, FJ (PV-02A-201)
⑦	16" Actuated Plug Valve, FJ (PV-02A-202)
⑧	18" Actuated Plug Valve, FJ (PV-02A-301)
⑨	16" Actuated Plug Valve, FJ (PV-02A-302)
⑩	18" Actuated Plug Valve, FJ (PV-02A-401)
⑪	16" Actuated Plug Valve, FJ (PV-02A-402)
⑫	18" Actuated Plug Valve, FJ (PV-02B-101)
⑬	16" Actuated Plug Valve, FJ (PV-02B-102)
⑭	18" Actuated Plug Valve, FJ (PV-02B-201)
⑮	16" Actuated Plug Valve, FJ (PV-02B-202)
⑯	18" Actuated Plug Valve, FJ (PV-02B-301)
⑰	16" Actuated Plug Valve, FJ (PV-02B-302)
⑱	18" Actuated Plug Valve, FJ (PV-02B-401)
⑲	16" Actuated Plug Valve, FJ (PV-02B-402)
⑳	16" Swing Check Valve, FJ (SCV-02A-101)
㉑	16" Swing Check Valve, FJ (SCV-02A-201)
㉒	16" Swing Check Valve, FJ (SCV-02A-301)
㉓	16" Swing Check Valve, FJ (SCV-02A-401)
㉔	16" Swing Check Valve, FJ (SCV-02B-101)
㉕	16" Swing Check Valve, FJ (SCV-02B-201)
㉖	16" Swing Check Valve, FJ (SCV-02B-301)
㉗	16" Swing Check Valve, FJ (SCV-02B-401)
㉘	18" Straight Flared End, FJ
㉙	16" 90° Bend, FJ



LEGEND:



NOTES:

- All proposed grating and handrails shall be made of aluminum and powder-coated dark green.
- Stairway shall have non-slip steps.
- Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
- Contractor to create hole in proposed grating at the location of adjustable pipe supports.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

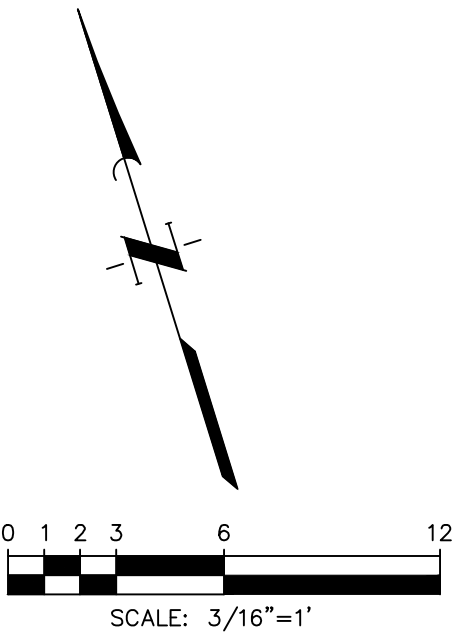
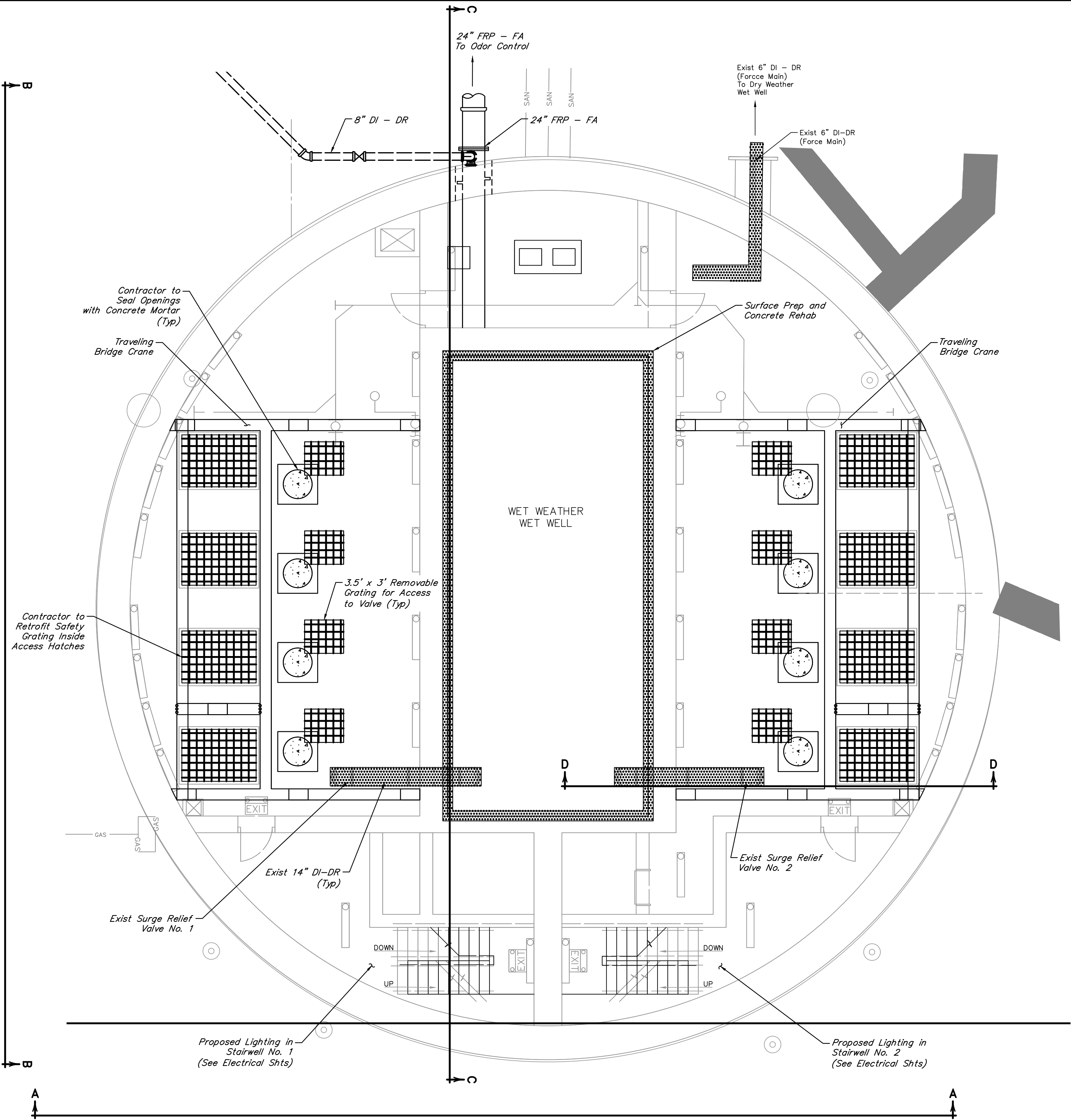
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

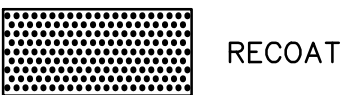
WET WEATHER LIFT STATION
LOWER LEVEL-PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-9 SHEET NO. 46 OF XXX
FOR CITY OF HOUSTON USE ONLY



LEGEND:



NOTES:

1. All proposed grating and handrails shall be made of aluminum and power-coated dark green.
2. All hatch covers shall be powder-coated dark green and labeled.
3. Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
4. Stairway shall have non-slip steps.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

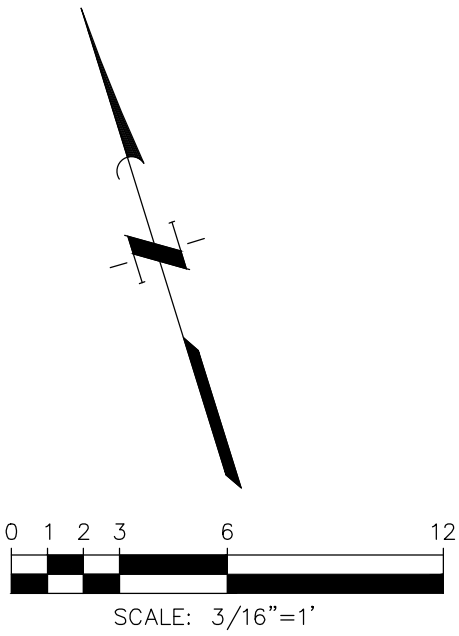
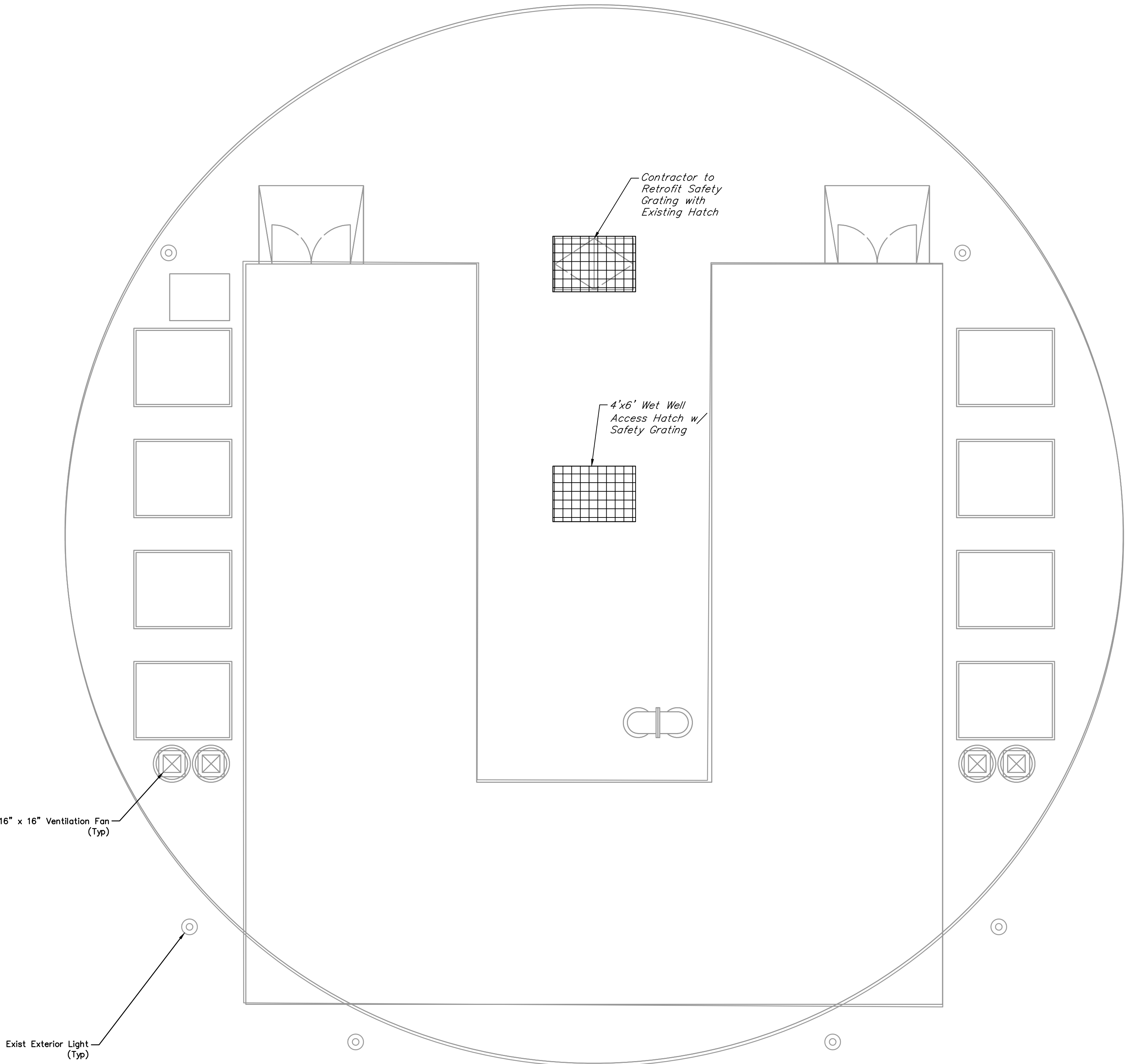
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
MEZZANINE LEVEL-PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-10 SHEET NO. 47 OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

1. Interior Excluded for Clarity.
2. All proposed hatch covers shall be coated in forest green and labeled.
3. Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
4. All proposed grating and handrails shall be made of aluminum and powder-coated dark green.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026

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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

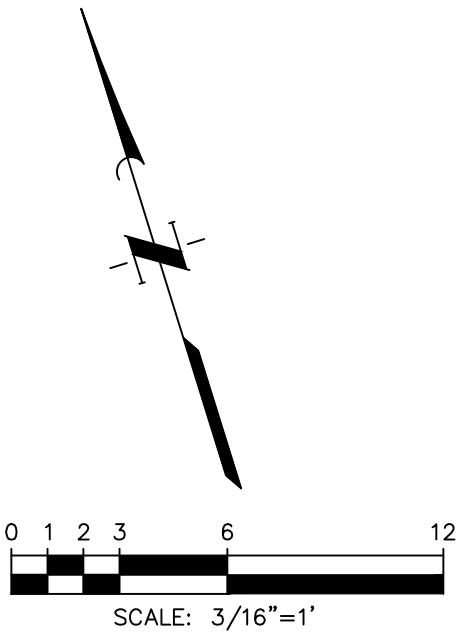
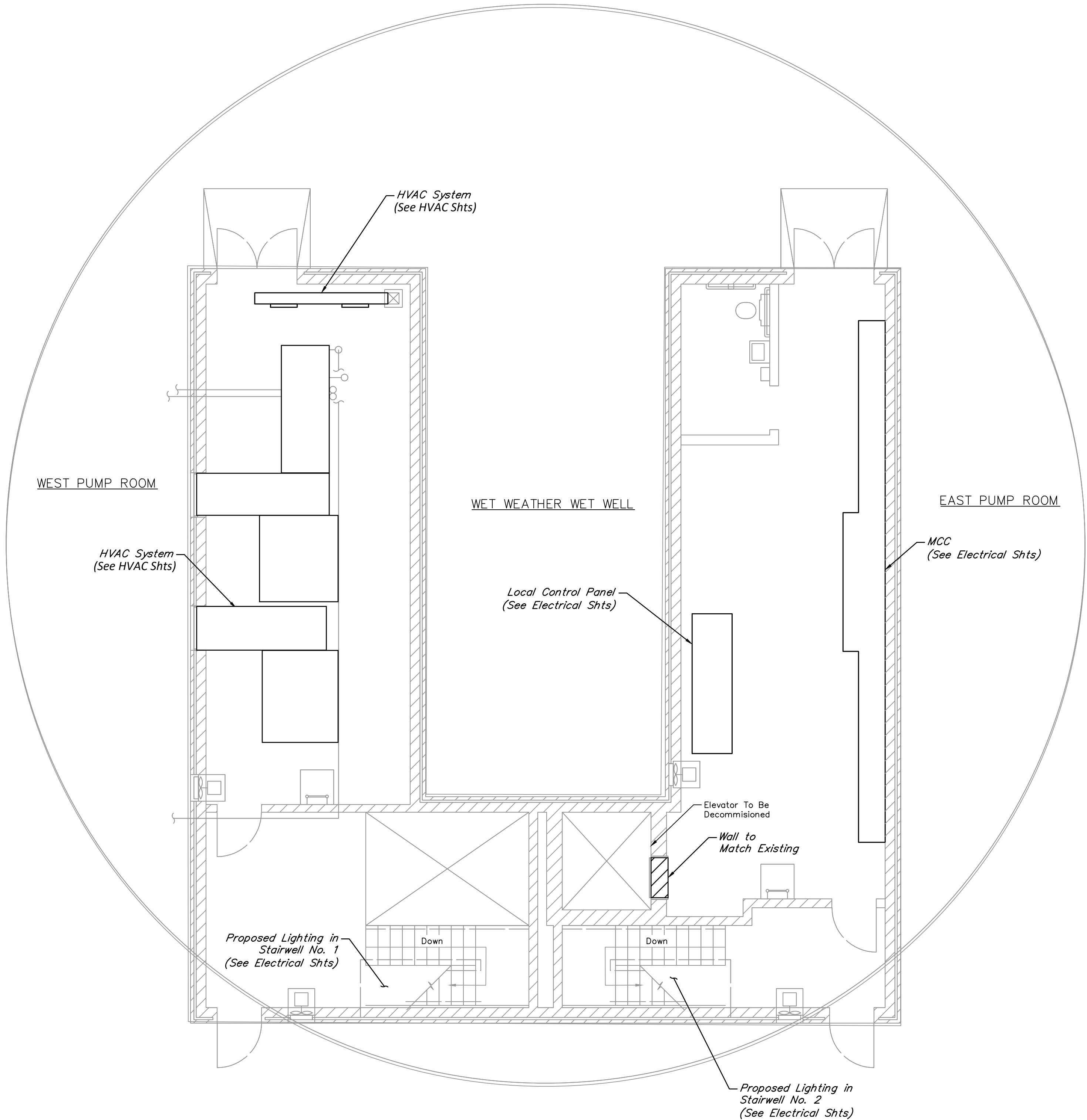
DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
GROUND LEVEL
EXTERIOR-PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1'	HORIZ: XXX	VERT: XXX
CATEGORY NO. 2-M-11	SHEET NO. 48	OF XXX
FOR CITY OF HOUSTON USE ONLY		



NOTES:

1. Exterior Excluded for Clarity.
2. Stairway shall have non-slip steps.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

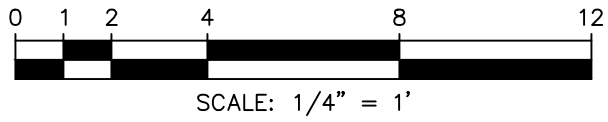
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
GROUND LEVEL
INTERIOR-PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/16"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-12 SHEET NO. 49 OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

1. West Pump Room is a Mirrored Set-Up from East Pump Room.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

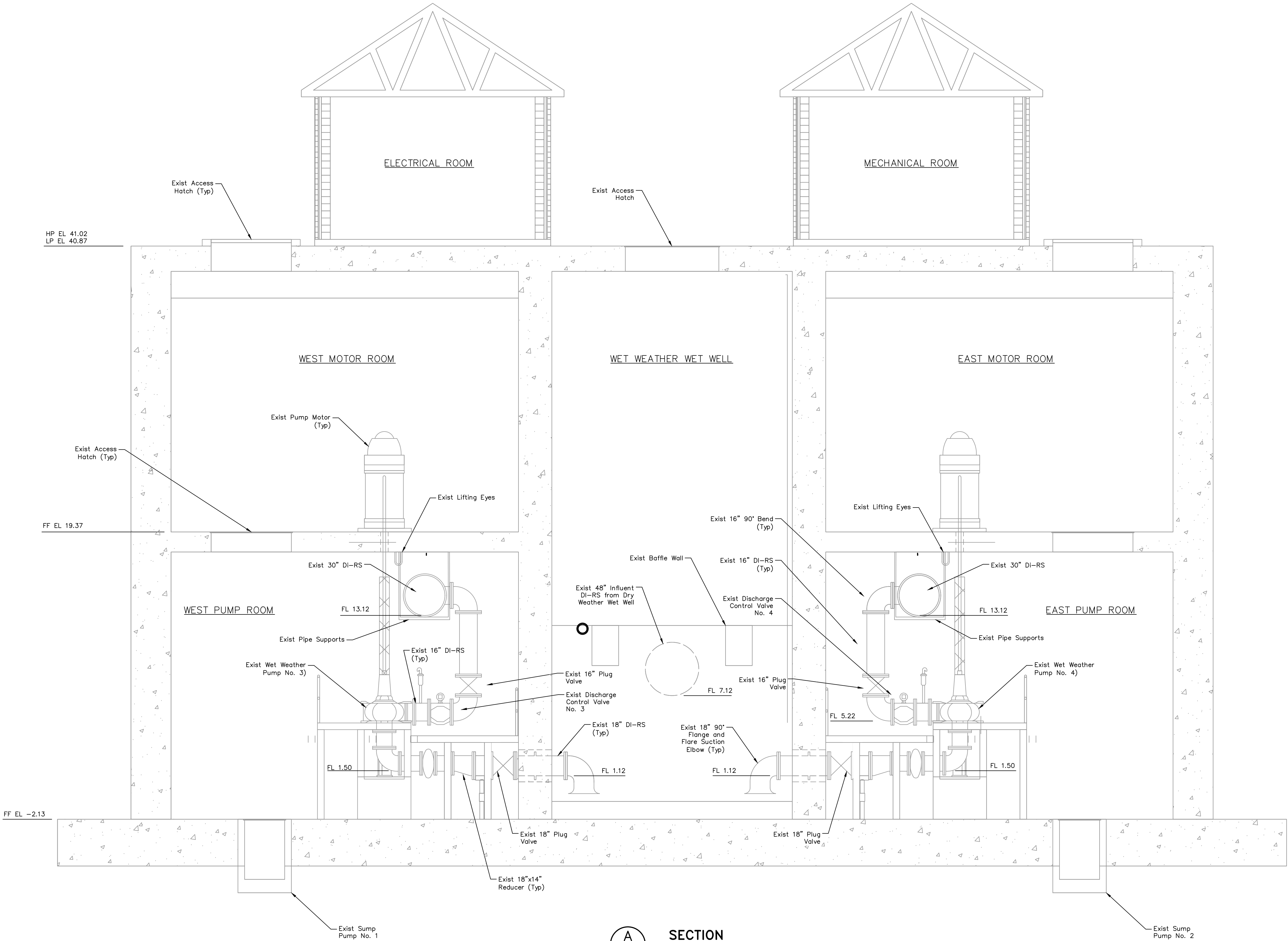
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

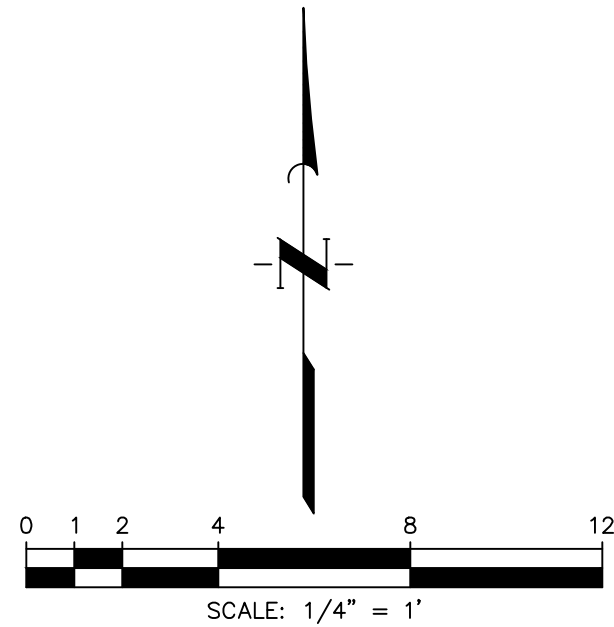
WET WEATHER LIFT STATION
LOWER LEVEL-EXISTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-13 SHEET NO. 50 OF XXX
FOR CITY OF HOUSTON USE ONLY

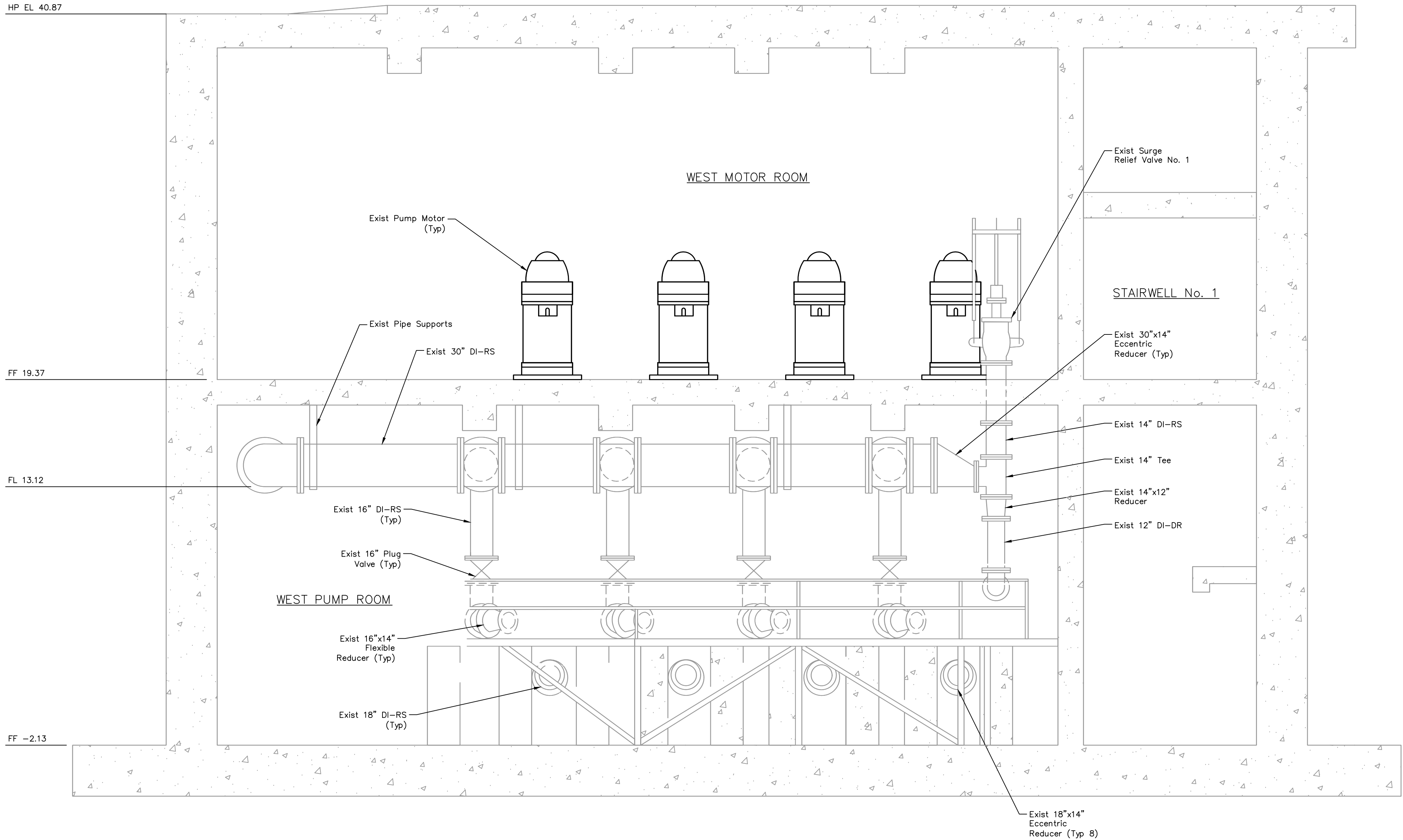


SECTION A
SCALE: 1/4"=1'-0"



NOTES:

1. West Pump Room is a Mirrored Set-Up from East Pump Room.



B SECTION
SCALE: 1/4"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

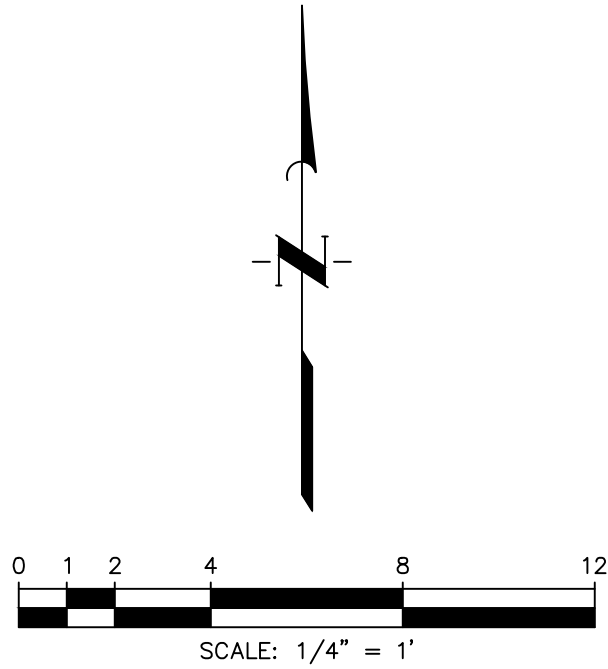
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
MEZZANINE LEVEL-EXISTING

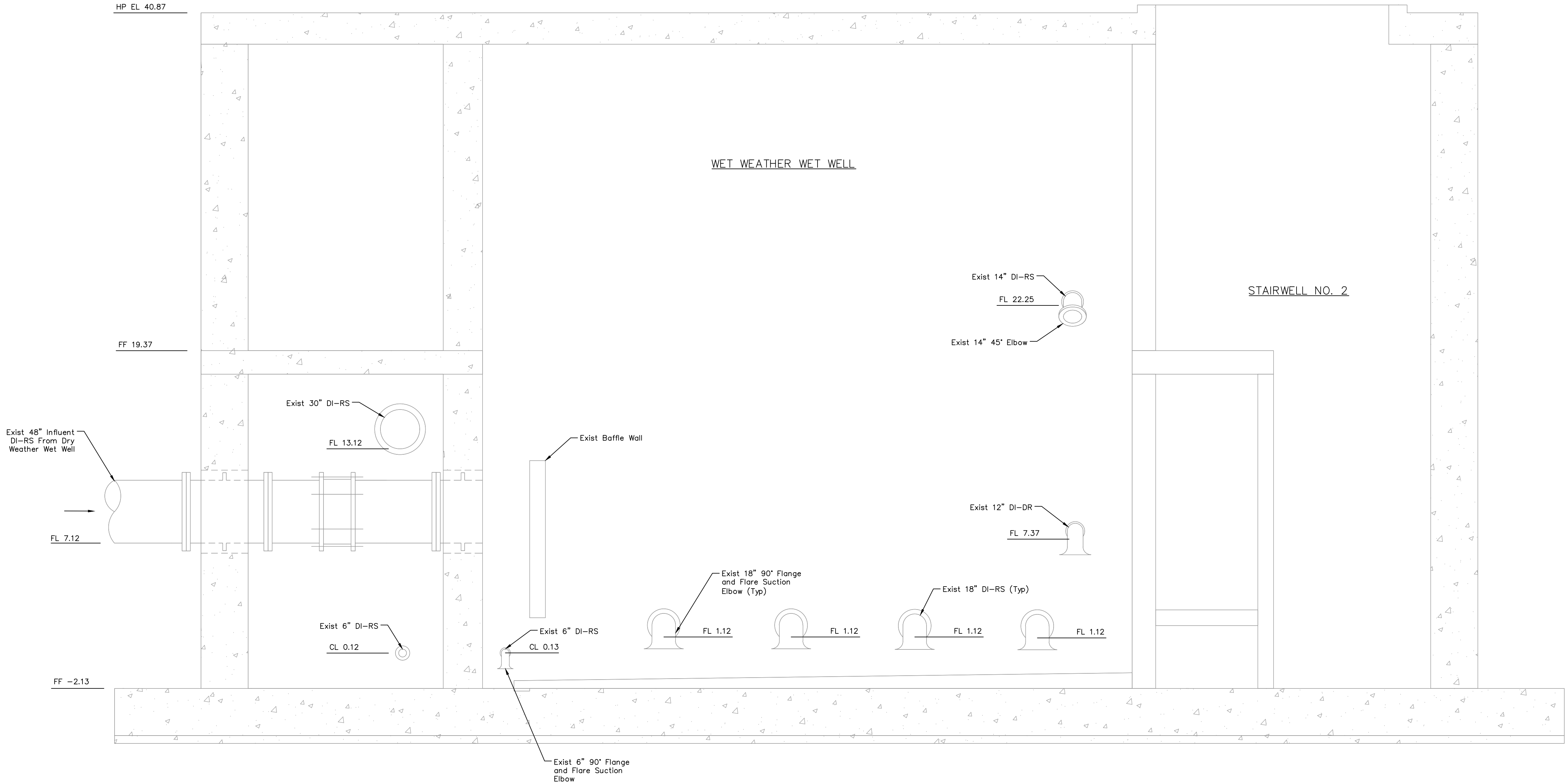
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-14 SHEET NO. 51 OF XXX
FOR CITY OF HOUSTON USE ONLY



NOTES:

1. Interior Excluded for Clarity.



C SECTION
SCALE: 1/4"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026

QUIDDITY
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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

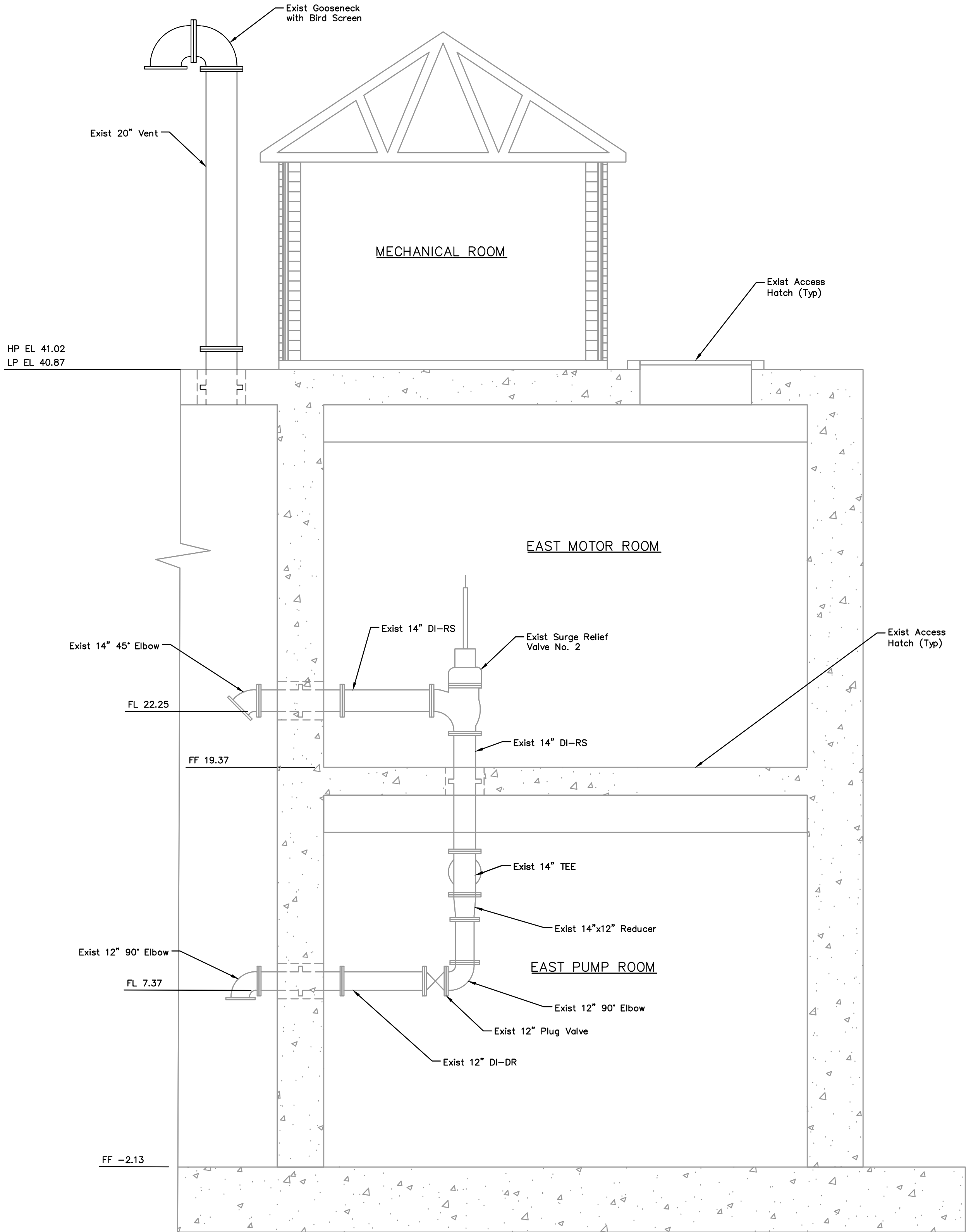
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

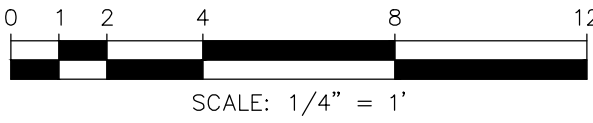
WET WEATHER LIFT STATION
EXISTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-15** SHEET NO. 52 OF XXX
FOR CITY OF HOUSTON USE ONLY



SECTION
SCALE: 1/4"=1'-0"



NOTES:

- Exterior Excluded for Clarity.
- West Pump Room is a Mirrored Set-Up from East Pump Room.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
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NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

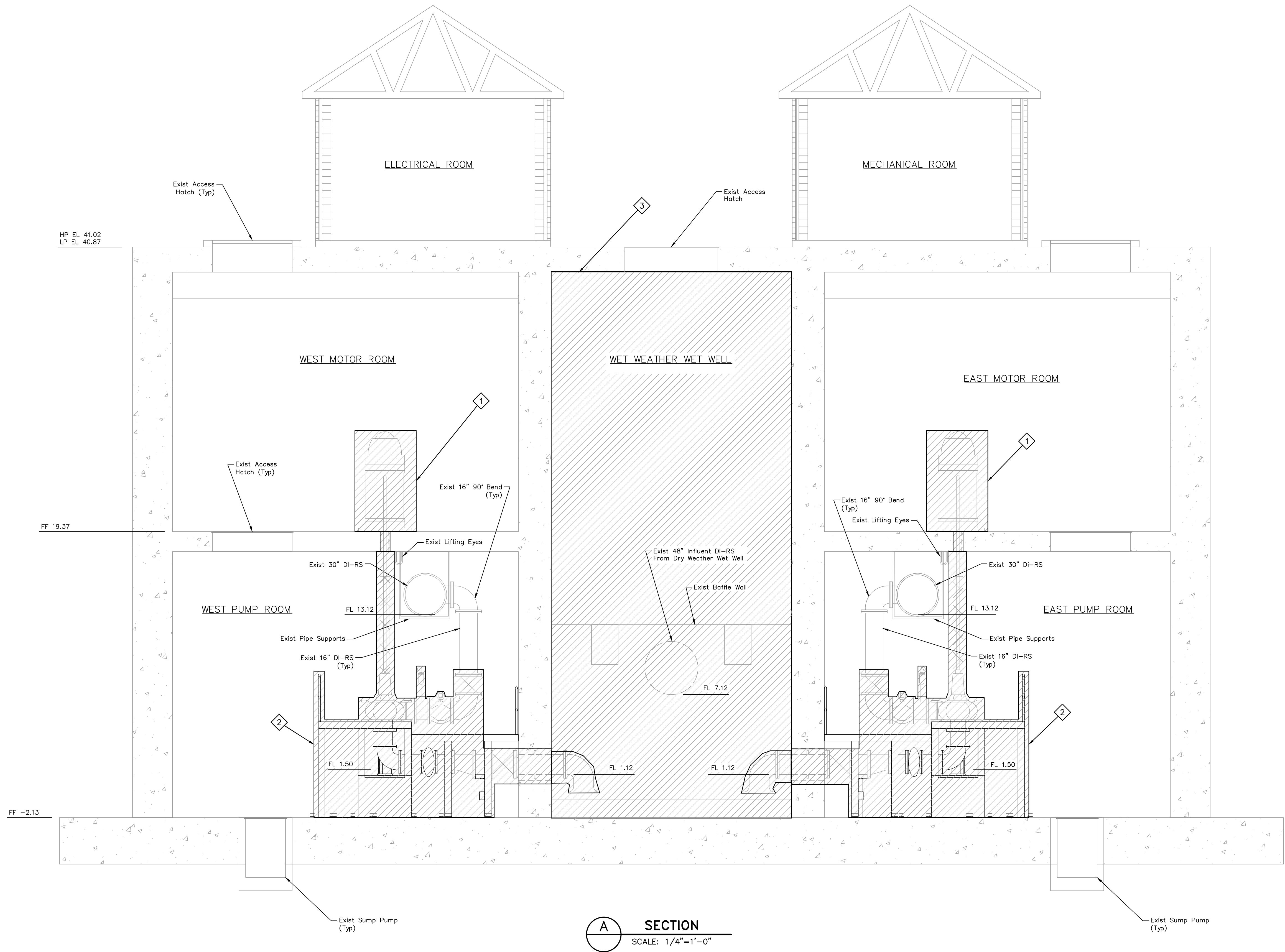
SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
EAST SECTION EXISTING

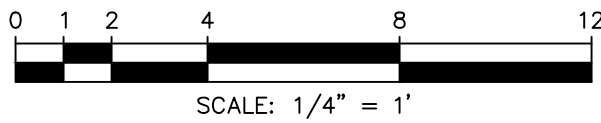
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-16** SHEET NO. 53 OF XXX
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



ITEMS OF WORK	
No.	DESCRIPTION
1	Demolish the Existing Motors from the Wet Weather Pumps, Conduit, Wire Associated with Motor.
2	Demolish Existing Wet Weather Pumps Associated Concrete Supports, Small Diameter Piping, Shaft, Controls, Conduit, Wire and Related Accessories.
3	Demolish T-LOK Liner Inside Wet Well including bottom face of top slab.

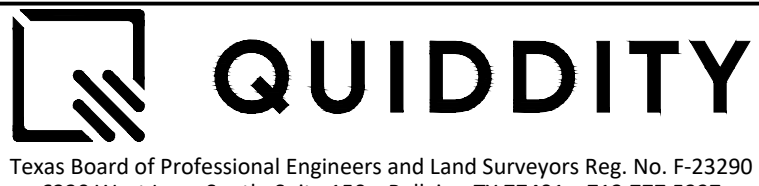


LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
LOWER LEVEL-DEMOLITION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-17 SHEET NO. 54 OF XXX
FOR CITY OF HOUSTON USE ONLY

ITEMS OF WORK

No.	DESCRIPTION
1	Demolish all Grating, Supports, Handrails and Miscellaneous Metals Related to the elevated Platform. Contractor Shall Grind down Anchors and Cover with Grout.
2	Demolish Existing Discharge Piping to the Vertical Portion of the Pipe, Valves, Supports and Miscellaneous Metals.
3	Demolish the Existing Motors from the Wet Weather Pumps, Conduit, Wire Associated with Motor.

LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

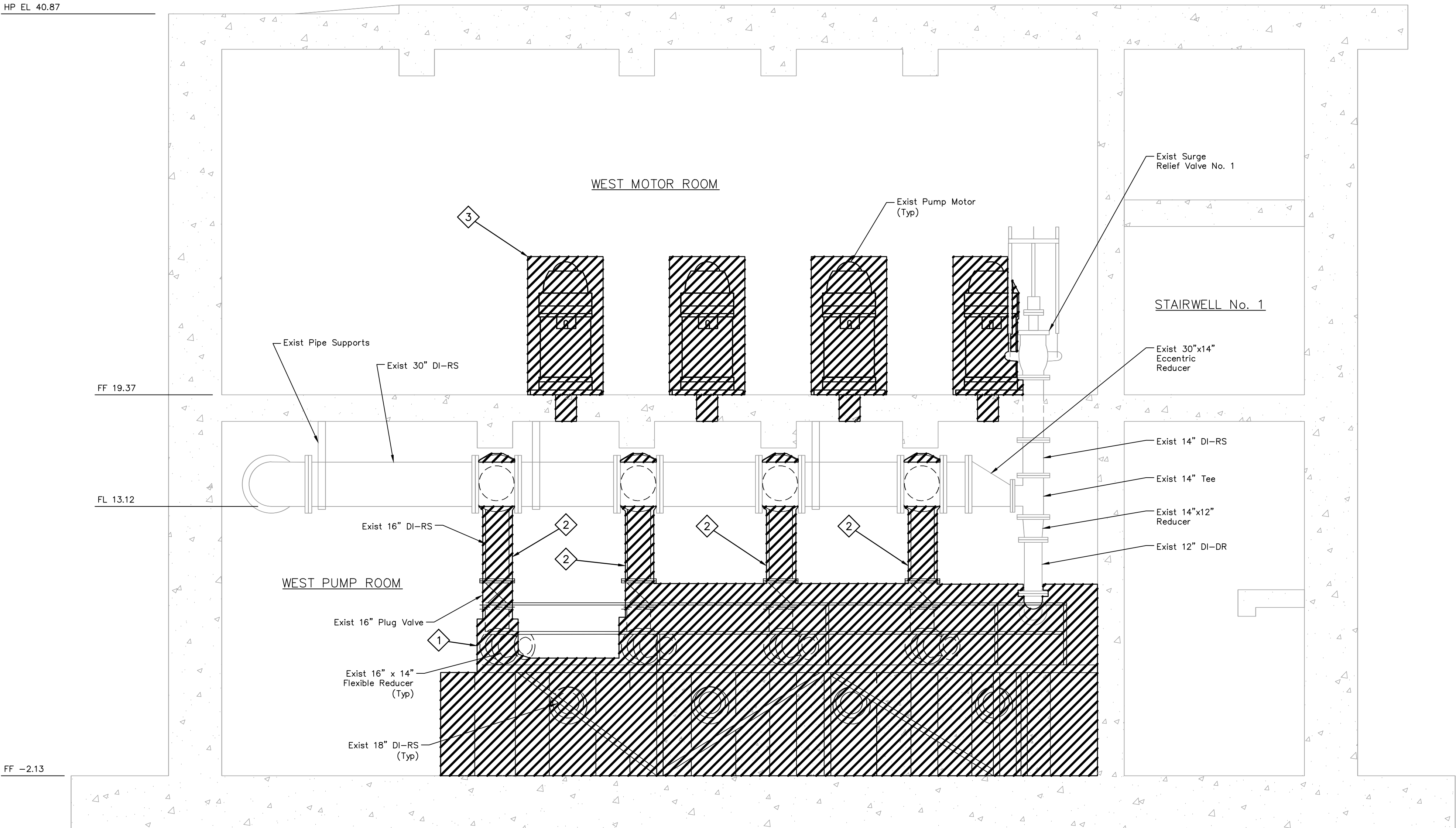
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
MEZZANINE LEVEL-DEMOLITION

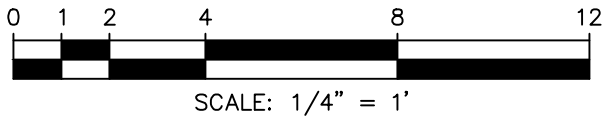
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-18 SHEET NO. 55 OF XXX
FOR CITY OF HOUSTON USE ONLY



B SECTION
SCALE: 1/4"=1'-0"

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



ITEMS OF WORK

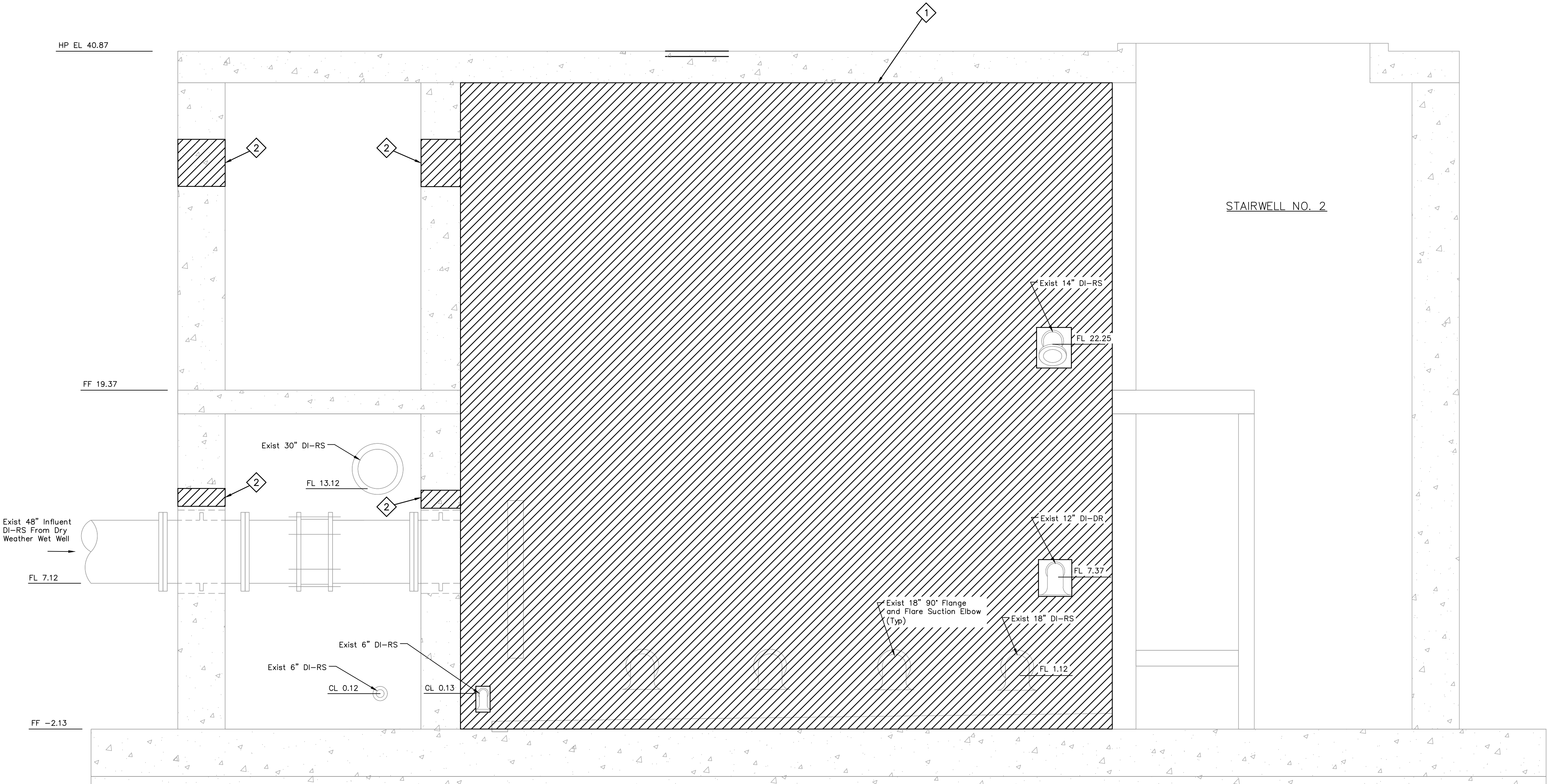
No.	DESCRIPTION
1	Demolish T-LOK Liner Inside Wet Well including bottom face of top slab.
2	Contractor to Core Through the Existing Walls to Allow for Construction of the FRP Duct Works and 8-inch Force Main Drain Line.

LEGEND:



NOTES:

- Interior Excluded for Clarity.



C SECTION
SCALE: 1/4"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026

QUIDDITY
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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

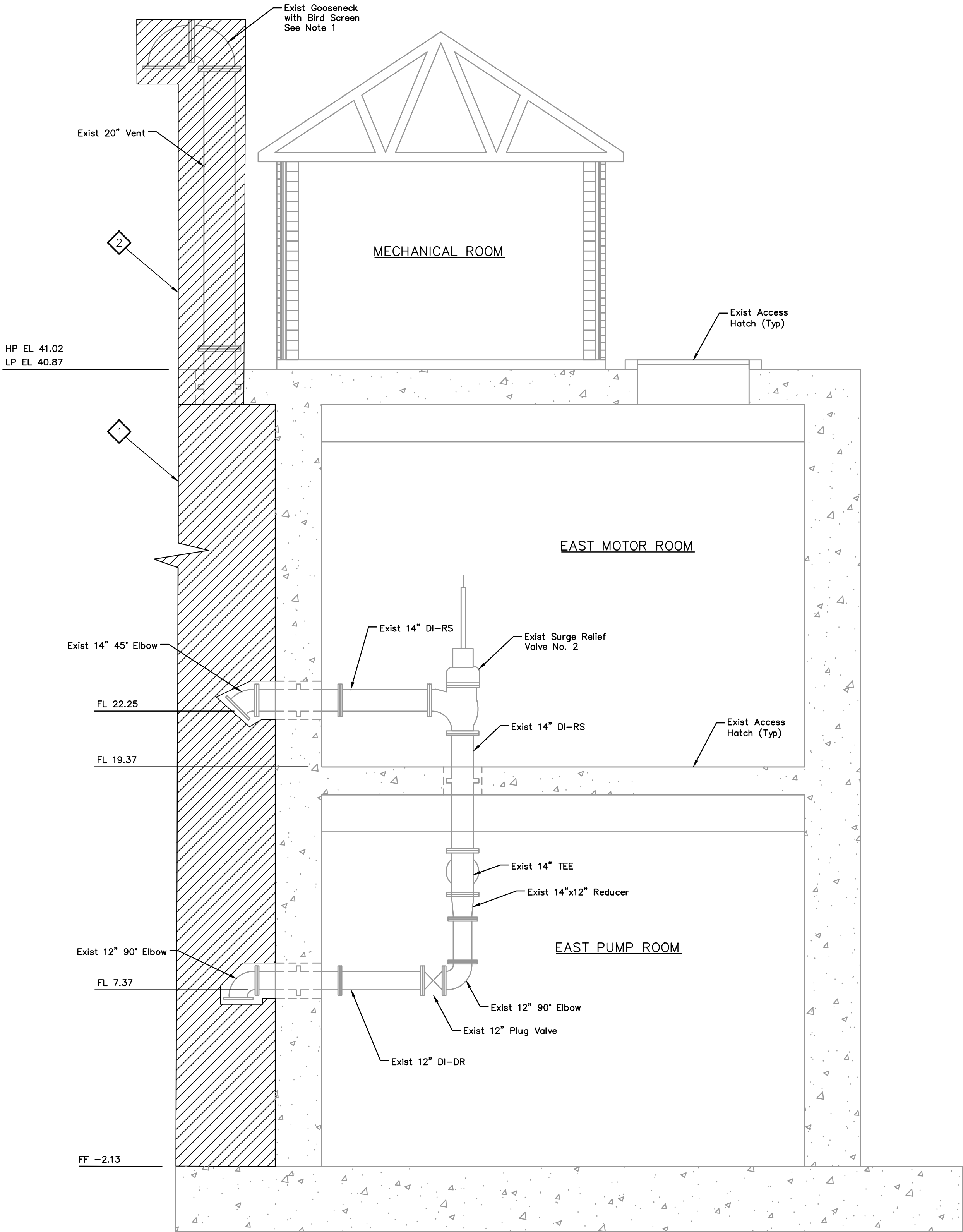
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
DEMOLITION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-19 SHEET NO. 56 OF XXX
FOR CITY OF HOUSTON USE ONLY



D SECTION
SCALE: 1/4"=1'-0"

ITEMS OF WORK

No.	DESCRIPTION
1	Demolish T-LOK Liner Inside Wet Well including bottom face of top slab.
2	Demolish 20" vent and goose-neck with bird screen.

NOTES:

- Exterior Excluded for Clarity.
- Contractor to field verify height of vent.

LEGEND:



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

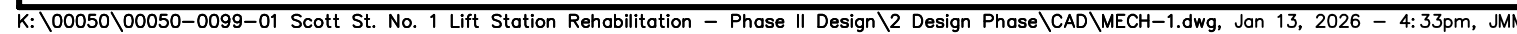
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

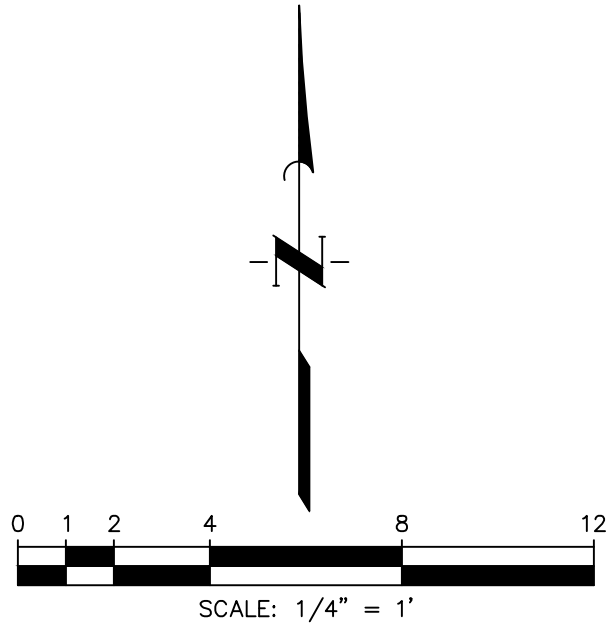
SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
EAST SECTION-DEMOLITION

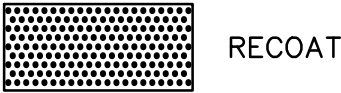
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-20 SHEET NO. 57 OF XXX
FOR CITY OF HOUSTON USE ONLY



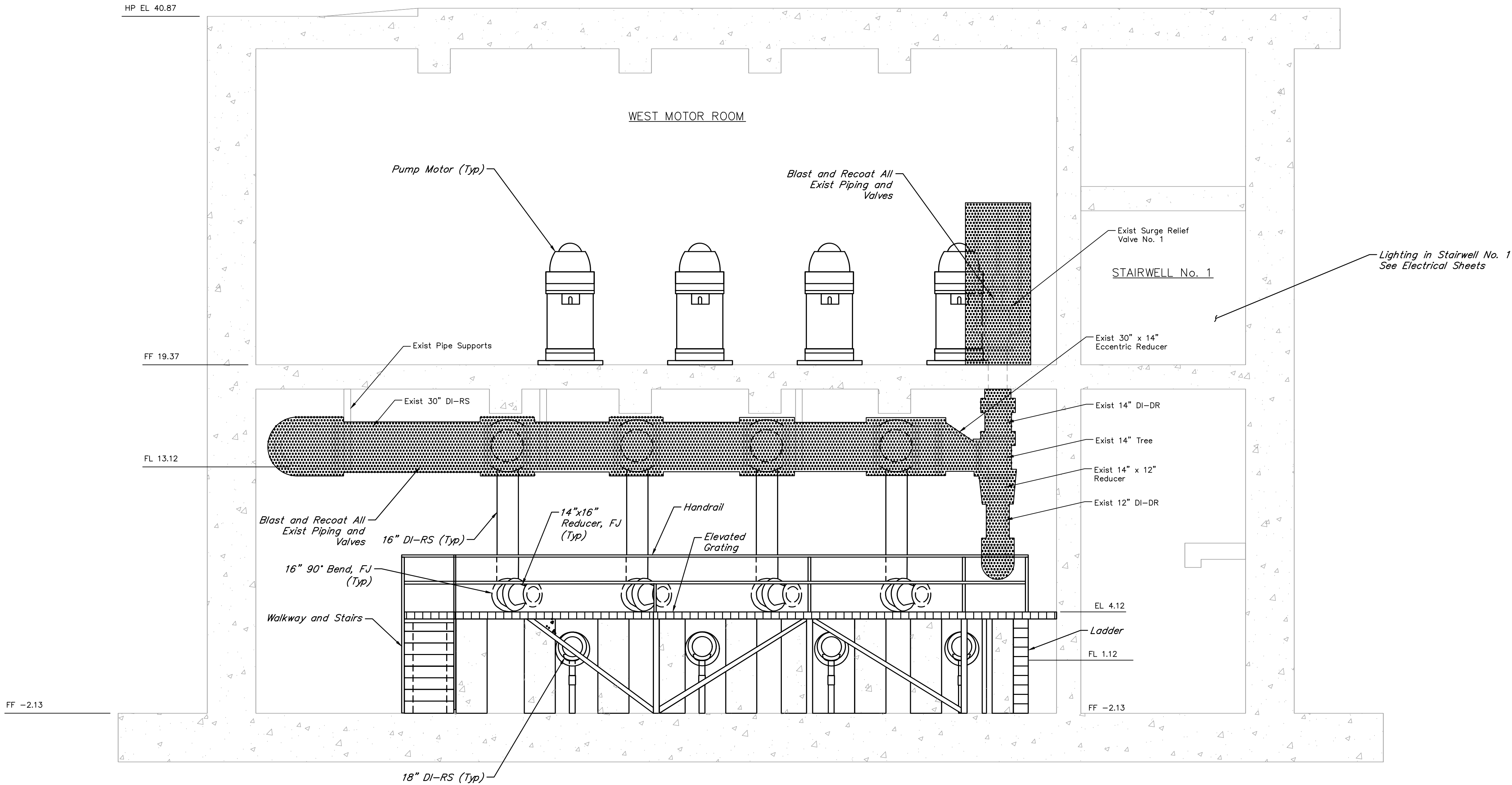


LEGEND:



NOTES:

- All proposed valves shall be installed with position indicator.
- Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
- All proposed grating, handrails, and ladders shall be made of aluminum powder-coated dark green.



B SECTION
SCALE: 1/4"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

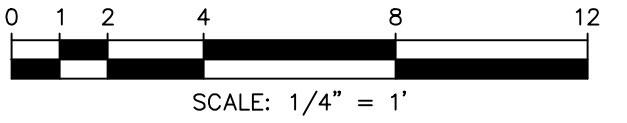
SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
MEZZANINE LEVEL-PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-22 SHEET NO. 59 OF XXX
FOR CITY OF HOUSTON USE ONLY

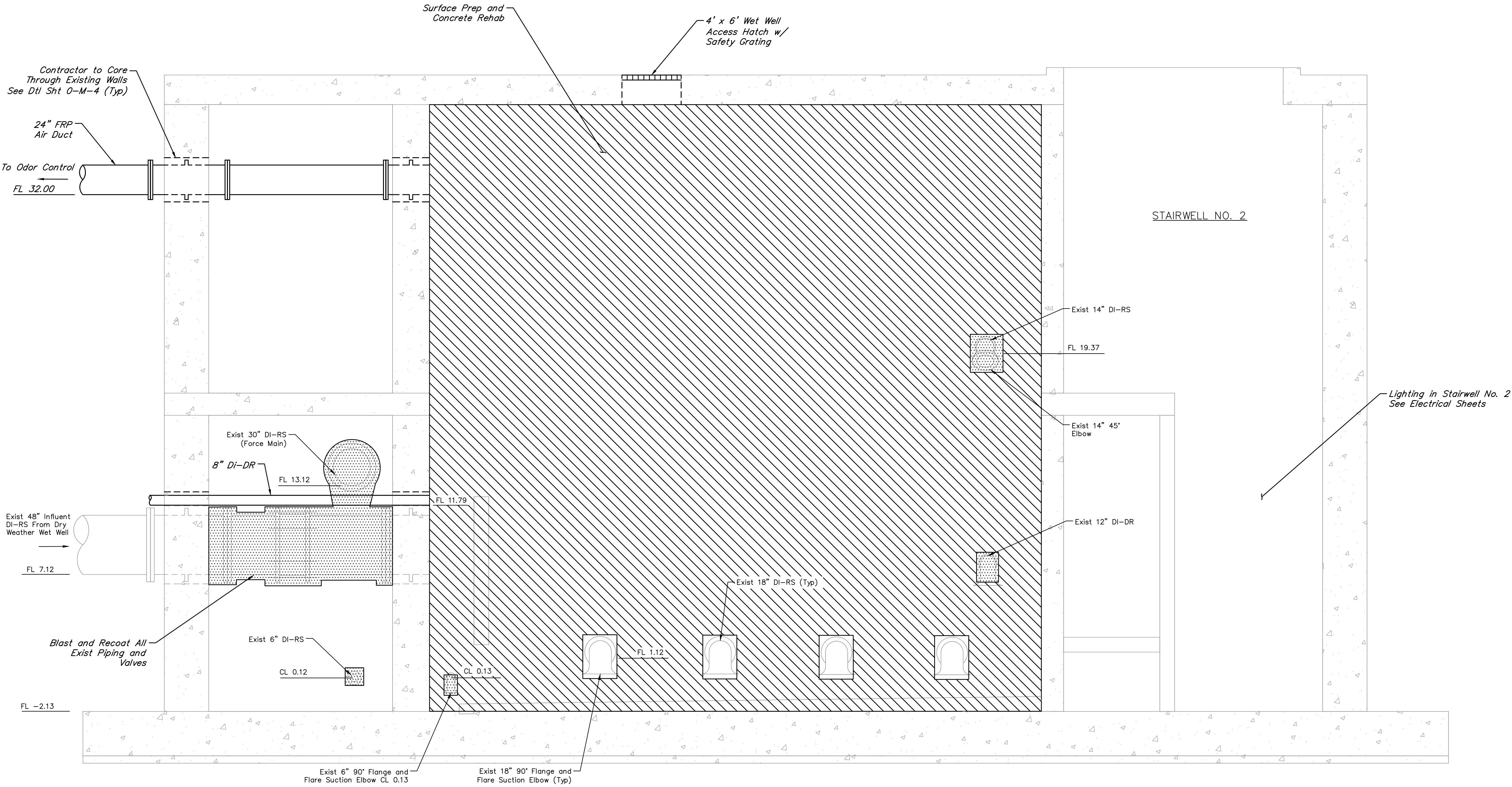
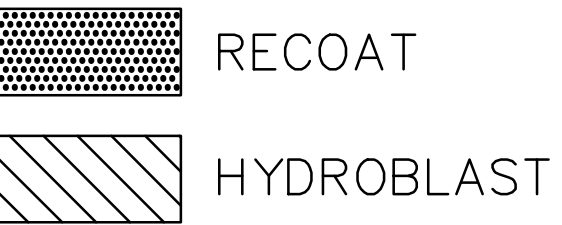
0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



NOTES:

1. Interior Excluded for Clarity.
2. Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
3. Surface prep and concrete rehab to include underside of top slab.
4. All proposed grating and handrails shall be made of aluminum powder-coated dark green.
5. All hatch covers shall be powder-coated dark green and labeled.

LEGEND:



C SECTION
SCALE: 1/4"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
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CITY OF HOUSTON
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
PROPOSED

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-23 SHEET NO. 60 OF XXX
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

20" Vent w/ Goose-Neck
& Bird Screen
See Note 3
See Dtl Sht 0-M-1

HP EL. 41.04
LP EL. 40.87

Surface Prep and
Concrete Rehab
See Note 7

Exist 12" 90° Elbow

FF -2.13

MECHANICAL ROOM

Exist 5'-2"x7'-2"
Access Hatch
(Typ)

Mount
Ventilator Base
on 6"Hx4"W
Concrete Curb

EAST MOTOR ROOM

Exist 14" DI-RS

Exist Surge Relief
Valve No. 2

FL 22.25

Exist 14" DI-RS

FF 19.37

Contractor to
Retrofit Safety
Grating Inside
Access Hatches

Exist 14" Tee

Exist 14" to 12"
Reducer

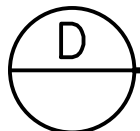
EAST PUMP ROOM

Exist 12" 90° Elbow

FF 7.37

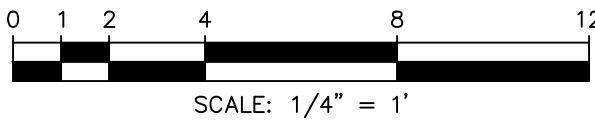
Exist 12" Plug Valve
Blast and Recoat All
Exist Piping and
Valves

Exist 12" DI-DR

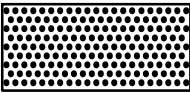


SECTION

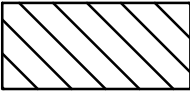
SCALE: 1/4"=1'-0"



LEGEND:



RECOAT



HYDROBLAST

NOTES:

- Exterior Excluded for Clarity.
- All proposed valves shall be installed with position indicator.
- Contractor to field verify height of vent.
- Contractor shall apply protective coating to all proposed above ground piping. Riser and hatches shall be labeled to correspond to the respective pump number.
- All proposed grating and handrails shall be made of aluminum powder-coated dark green.
- All hatch covers shall be powder-coated dark green and labeled.
- Surface prep and concrete rehab to include underside of top slab.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

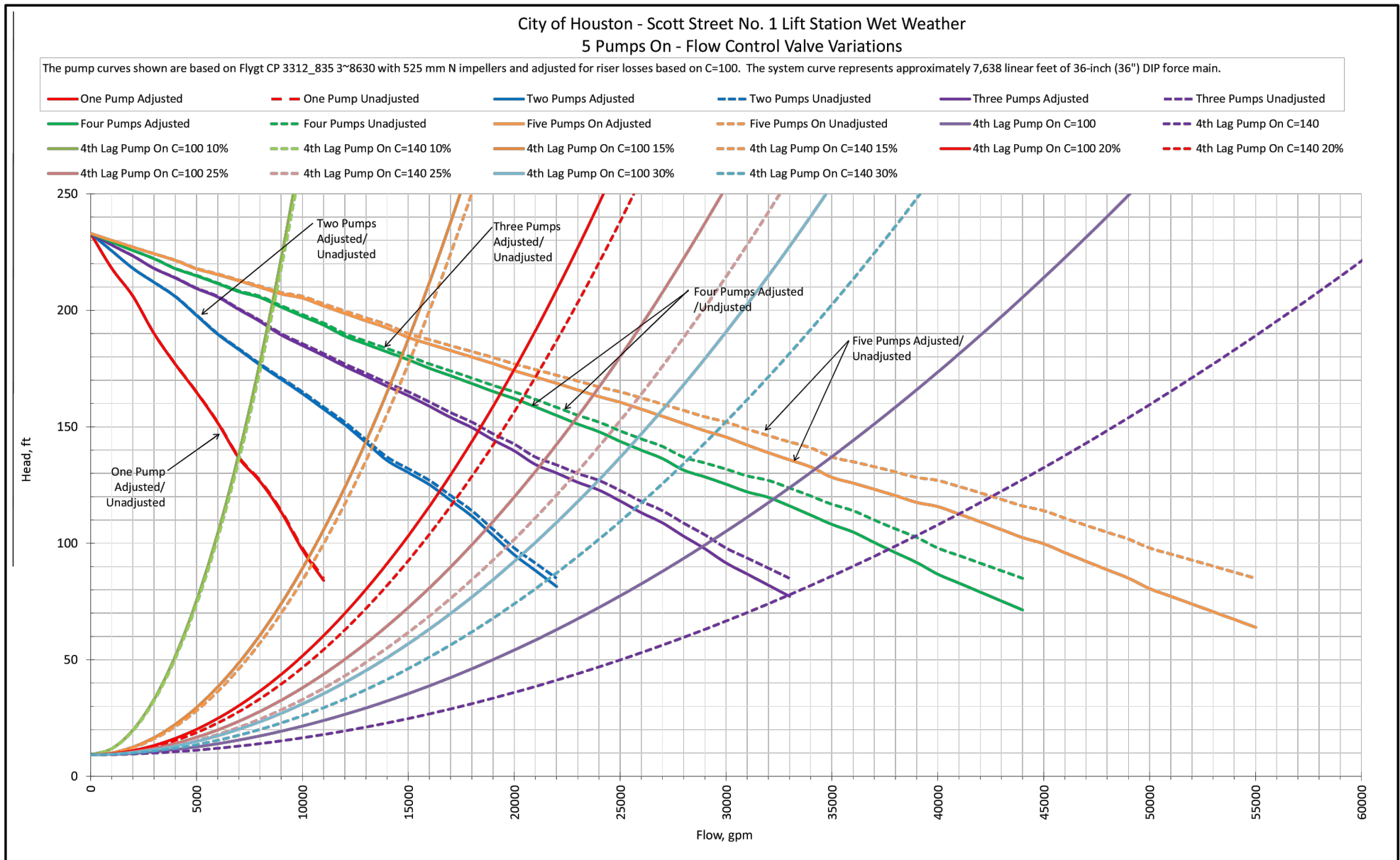
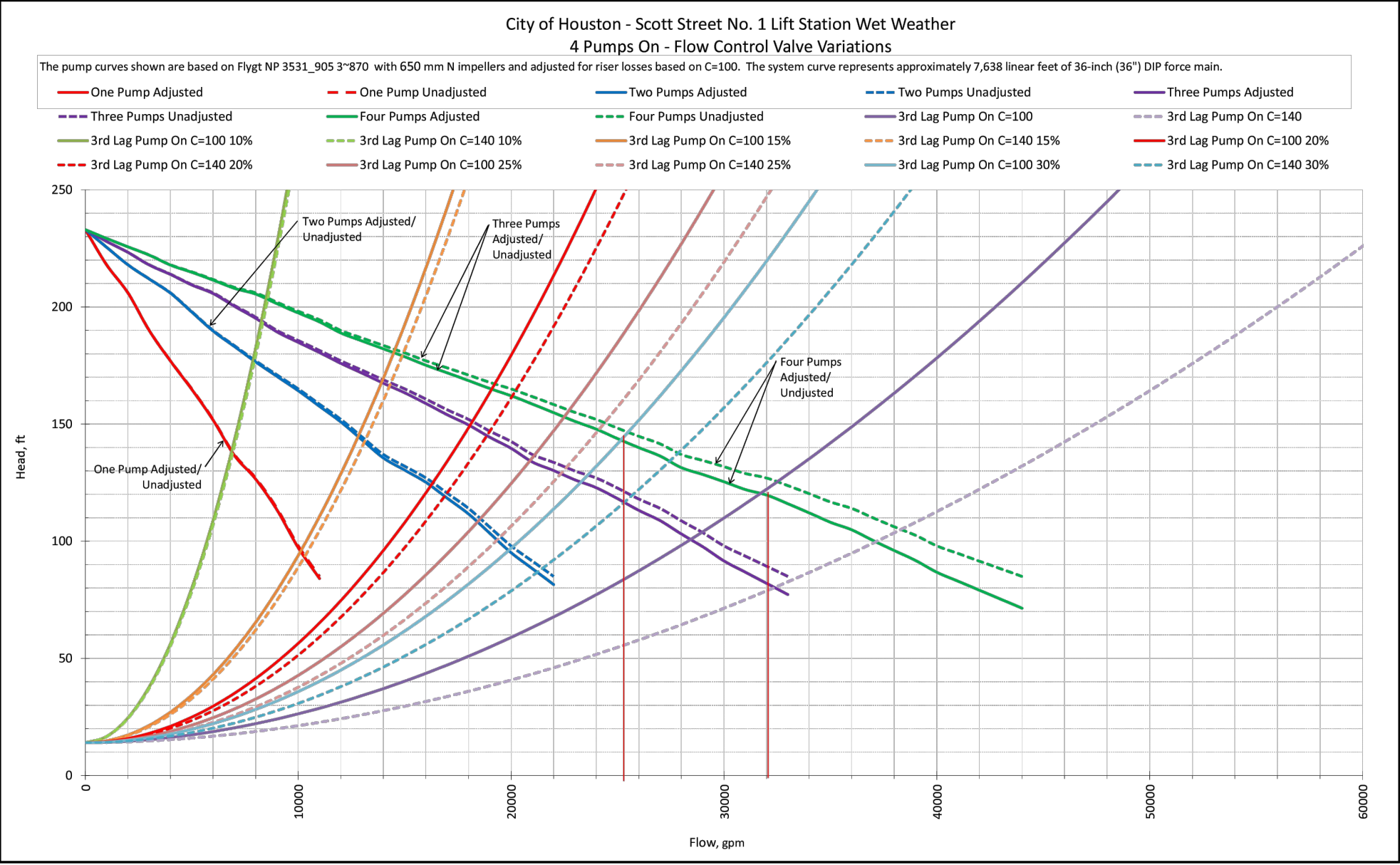
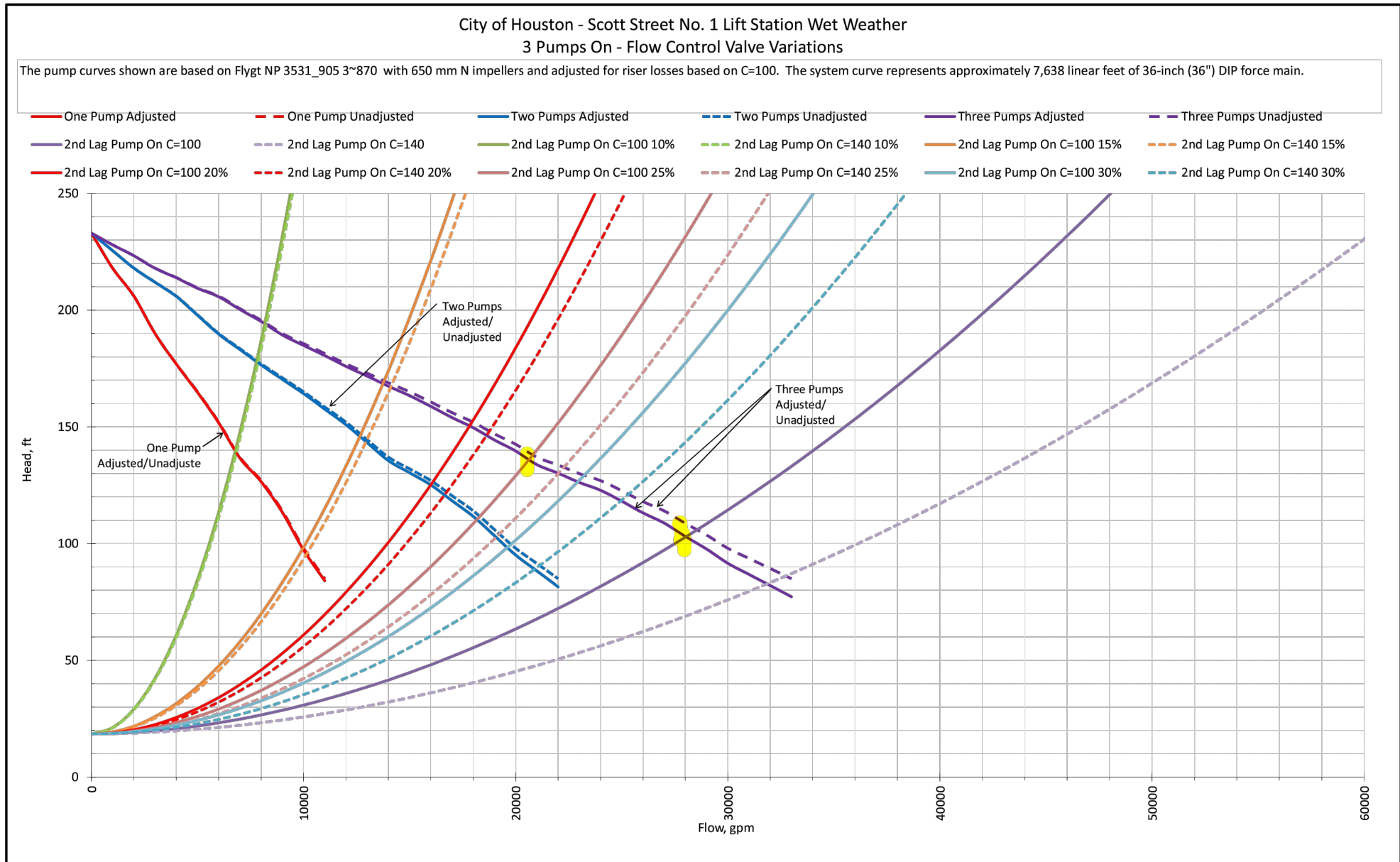
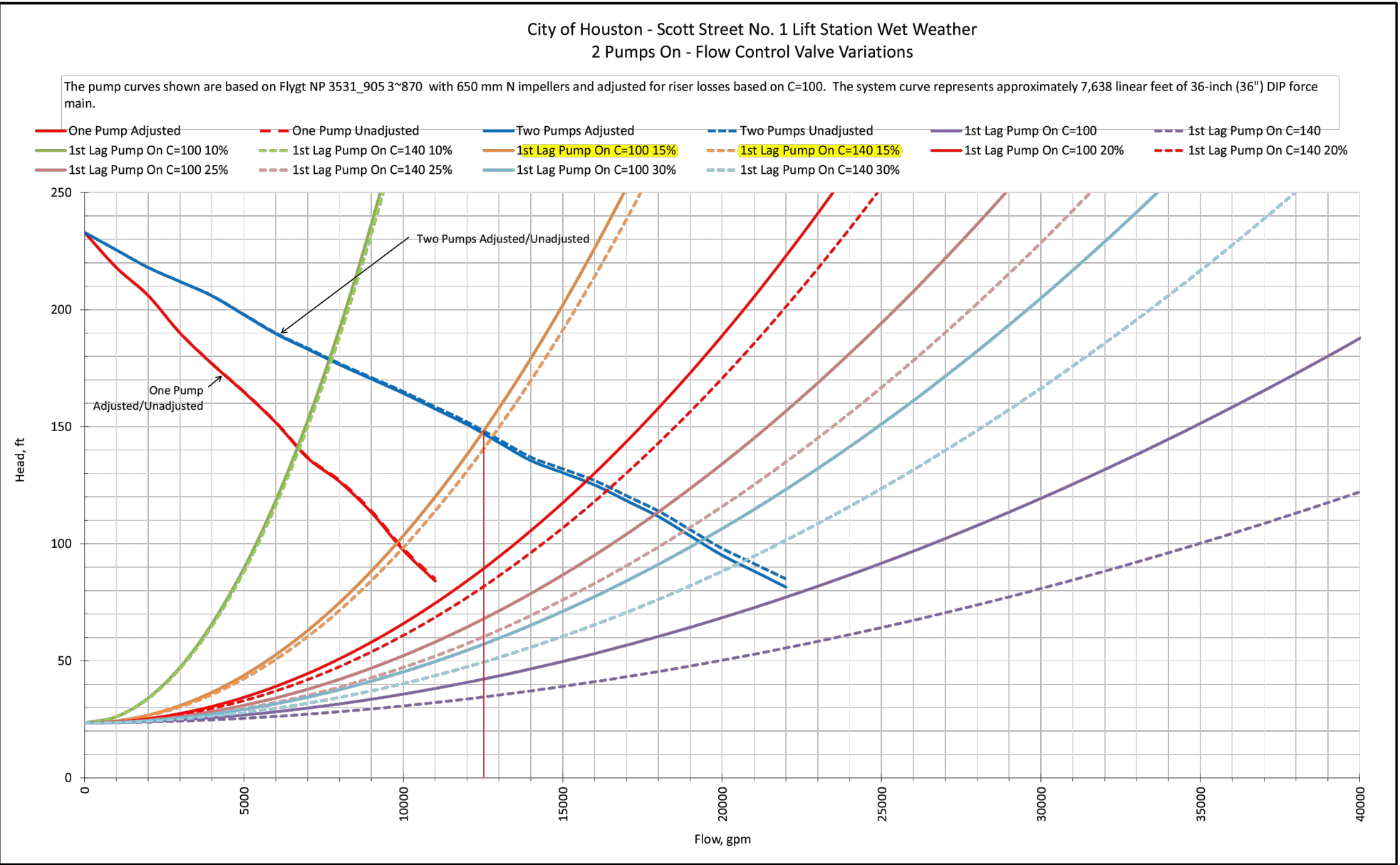
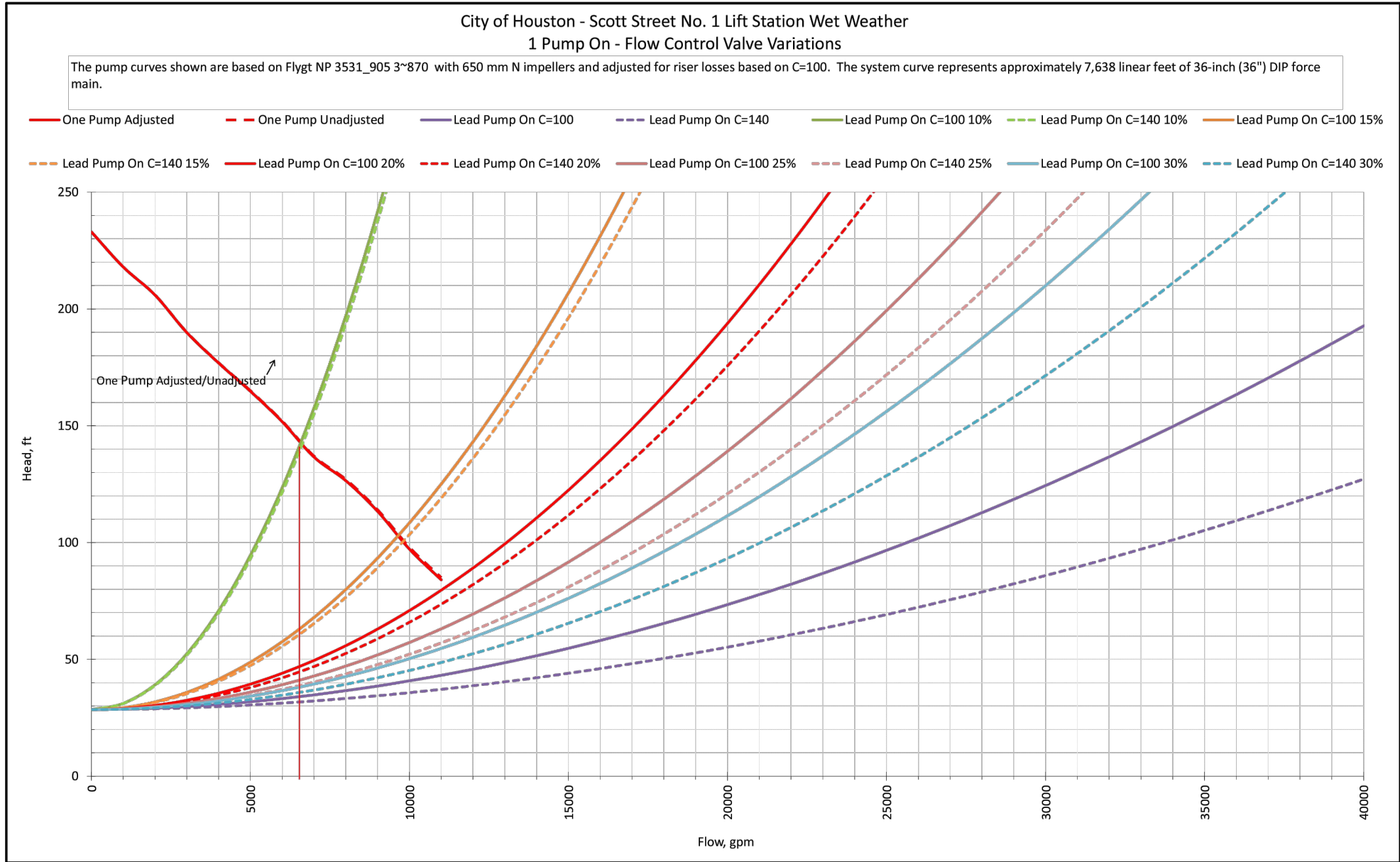
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

**WET WEATHER LIFT STATION
EAST SECTION-PROPOSED**

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-24** SHEET NO. 61 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

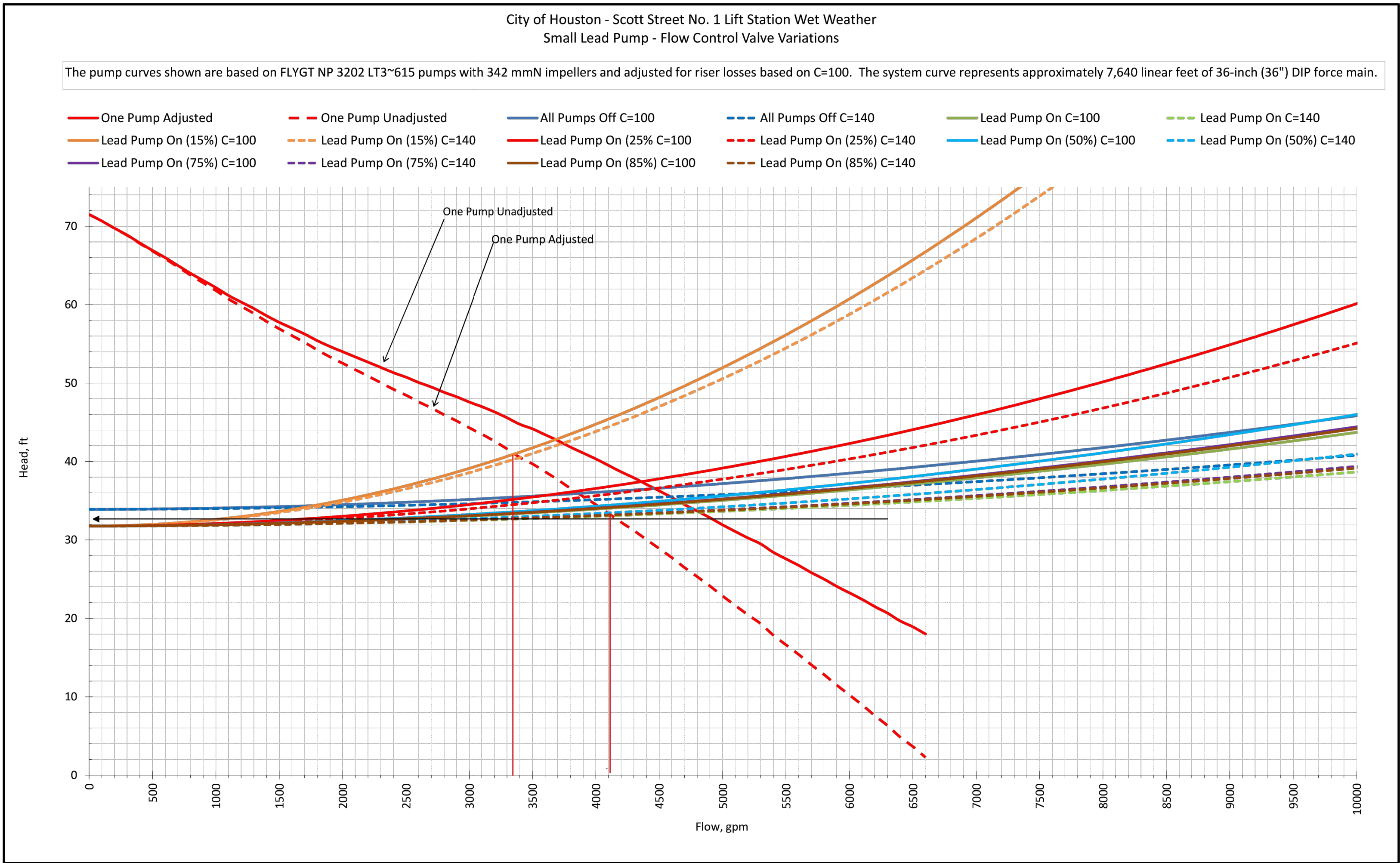
DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER PUMP STATION
PUMP DATA AND CURVES
SHEET 1 OF 3

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. **2-M-25** SHEET NO. 63 OF XXX
FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

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SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER PUMP STATION
PUMP DATA AND CURVES SHEET
2 OF 3

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 2-M-26 SHEET NO. 64 OF XXX
FOR CITY OF HOUSTON USE ONLY

PUMP DATA TABLE

PUMP DATA	PUMP No. 7	PUMP No. 8	PUMP No. 3	PUMP No. 4	PUMP No. 5	PUMP No. 6	PUMP No. 1	PUMP No. 2
FLOW (GPM)	6,944	6,944	6,944	6,944	6,944	6,944	4,167	4,167
TDH (FT.)	138.41	138.41	138.41	138.41	138.41	138.41	39.55	39.55
MIN. OVERALL EFF. (%)	60%	60%	60%	60%	60%	60%	60%	60%
STATIC HEAD (FT.)	14.52	14.52	14.52	14.52	14.52	14.52	31.77	31.77
SHAFT HP (MAX.)	525	525	525	525	525	525	50	50
RPM (MAX.)	905	905	905	905	905	905	1,175	1,175

LIFT STATION OPERATION TABLE LARGE PUMPS

RISING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
11.00	LEAD PUMP TURNS ON	LEAD PUMP TURNS ON
16.00	1ST LAG PUMP TURNS ON	LEAD AND 1ST LAG PUMP TURNS ON
21.00	2ND LAG PUMP TURNS ON	LEAD AND TWO LAG PUMPS TURN ON
25.50	3RD LAG PUMP TURNS ON	LEAD AND THREE LAG PUMPS TURN ON
30.25	4TH LAG PUMP TURNS ON	ALL PUMPS ON
FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
30.00	4TH LAG PUMP TURNS OFF	
25.25	3RD LAG PUMP TURNS OFF	
20.75	2ND LAG PUMP TURNS OFF	
17.75	1ST LAG PUMP TURNS OFF	LEAD AND 1ST LAG PUMP TURNS ON
10.75	LEAD PUMP TURNS OFF	ALL PUMPS OFF

LIFT STATION OPERATION TABLE SMALL PUMPS

RISING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
7.75	LEAD PUMP TURNS ON	ALL PUMPS ON
FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
7.50	LEAD PUMP TURNS OFF	ALL PUMPS OFF

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: DECEMBER 2025



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

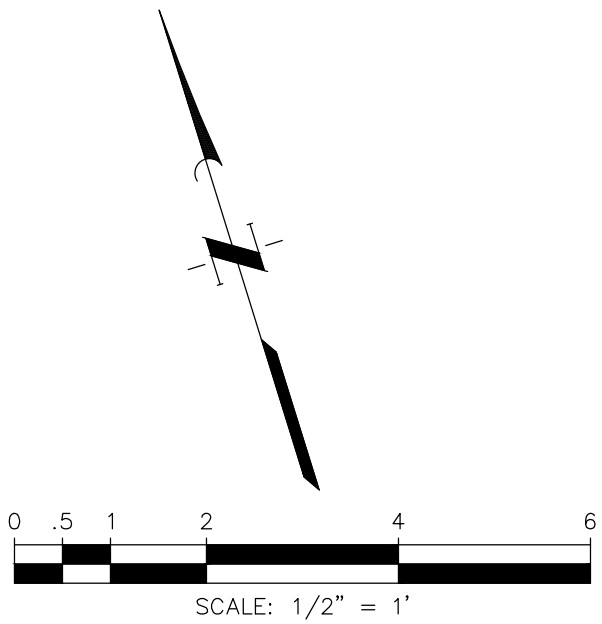
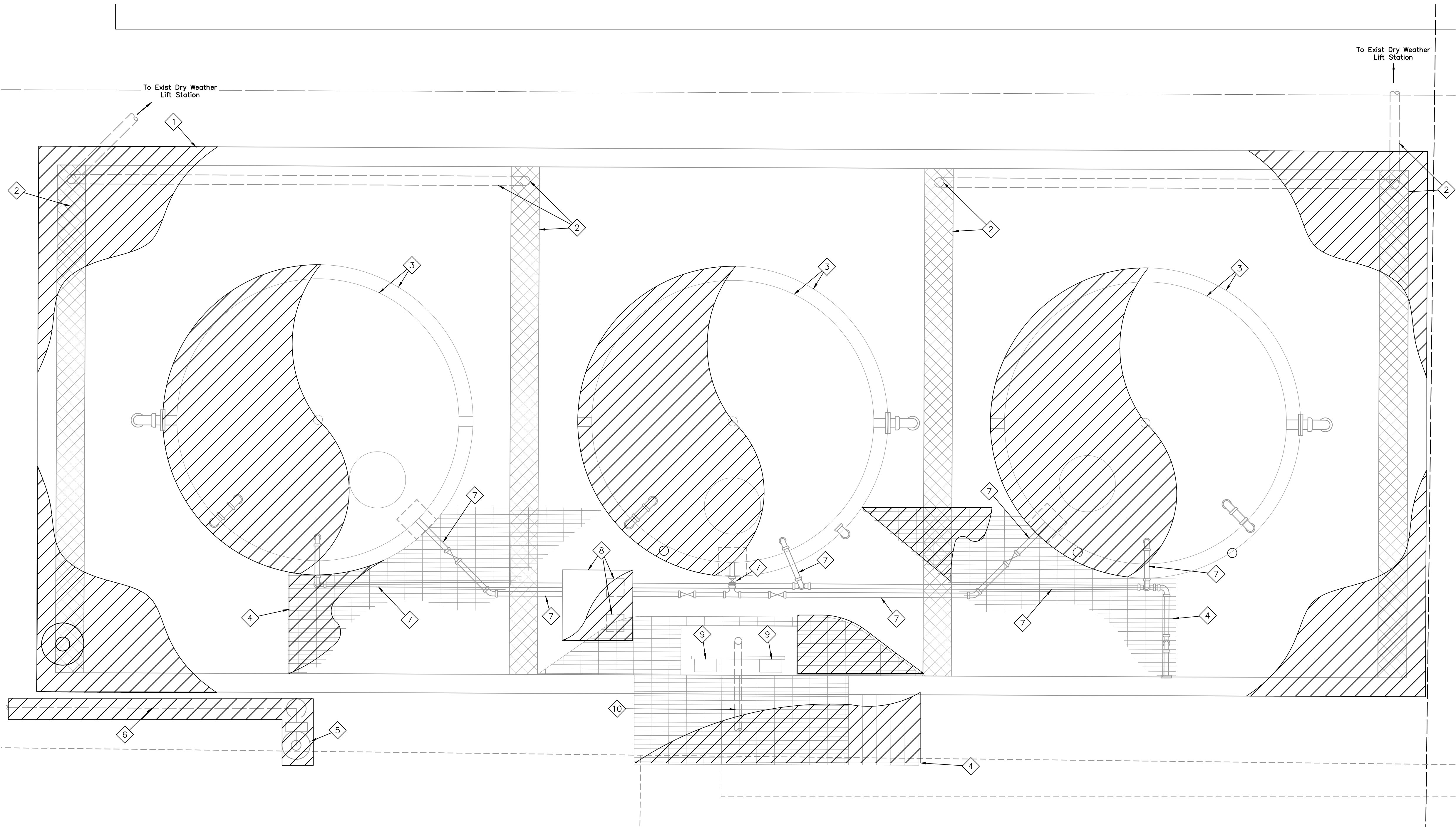
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER PUMP STATION
PUMP DATA AND CURVES
SHEET 3 OF 3

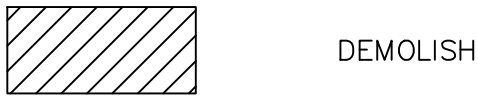
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX

CATEGORY NO. **2-M-27** SHEET NO. XXX OF XXX
FOR CITY OF HOUSTON USE ONLY



LEGEND:



NOTES:

- Demolition and disposal of the existing chemical system must be done in accordance to local, state, and federal regulations.
- The existing demolition plans are based from the City of Houston's record drawings. Actual existing conditions may differ than what is on the field. Contractor shall field verify the existing conditions and dimensions as necessary to perform the work.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

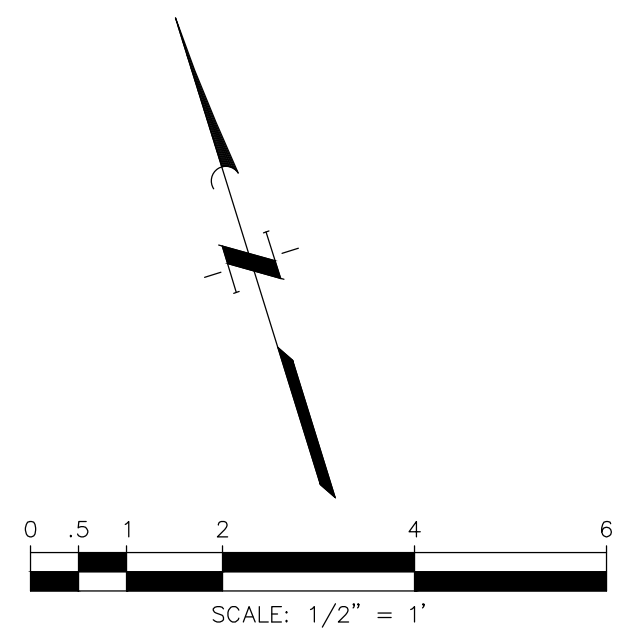
CHEMICAL FEED SYSTEM
DEMOLITION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. 3-M-1 SHEET NO. 66 OF XXX
FOR CITY OF HOUSTON USE ONLY

ITEMS OF WORK

No.	DESCRIPTION	No.	DESCRIPTION
1	Demolish the existing concrete containment walls and foundation.	6	Demolish the existing 1-1/4" PW-PVC line.
2	Demolish the existing floor trench, grating, and drain lines.	7	Demolish all above ground piping, fittings, valves, supports, and miscellaneous items within the chemical containment area.
3	Demolish the existing ferrous sulfate chemical storage tanks and tank pedestals.	8	Demolish the existing chemical feed pumps, piping, fittings, and valves within the FRP Building and the FRP building.
4	Demolish the existing fabricated steel grating, stairs, and framing.	9	Demolish the existing chemical system control panels and electrical conduits.
5	Demolish the existing emergency eye wash and shower station.	10	Pull out and demolish the existing chemical tubing within chemical carrier pipe (from Process Area 3 to Process Area 1) and demolish the existing chemical carrier pipe.



1. Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
2. Chemical piping running along the inside wall of the chemical containment pad shall be mounted with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".
3. Chemical piping running to and from the chemical tanks and not supported along the inside wall of the chemical containment pad shall be mounted with pipe hangers & SS hardware. The maximum distance between supports shall be 4'-0".
4. All aluminum grating, handrails, and access hatches shall receive shop applied powder coating, color COH forest green.

INTERIM REVIEW

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bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

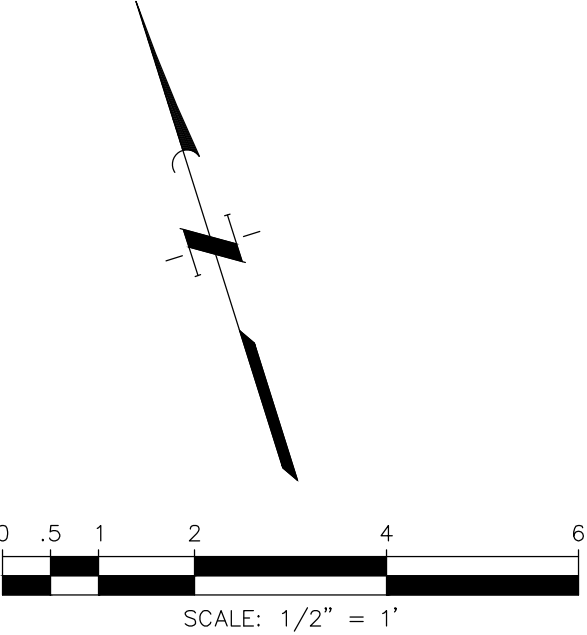
P.E. Serial No.: 144401

Date: NOVEMBER 2025



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CATEGORY NO. **3-M-2** SHEET NO. 67 OF XXX
FOR CITY OF HOUSTON USE ONLY



1. Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
2. Chemical piping running along the inside wall of the chemical containment pad shall be mounted with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".
3. Chemical piping running to and from the chemical tanks and not supported along the inside wall of the chemical containment pad shall be mounted with pipe hangers & SS hardware. The maximum distance between supports shall be 4'-0".

VALVES, FITTINGS AND ACCESSORIES SCHEDULE	
No.	DESCRIPTION
①	6" Butterfly Valve (BFV-03-001)

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025	DGN BY: CTHOMAS
JOB NO: 00050-0099-01	DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

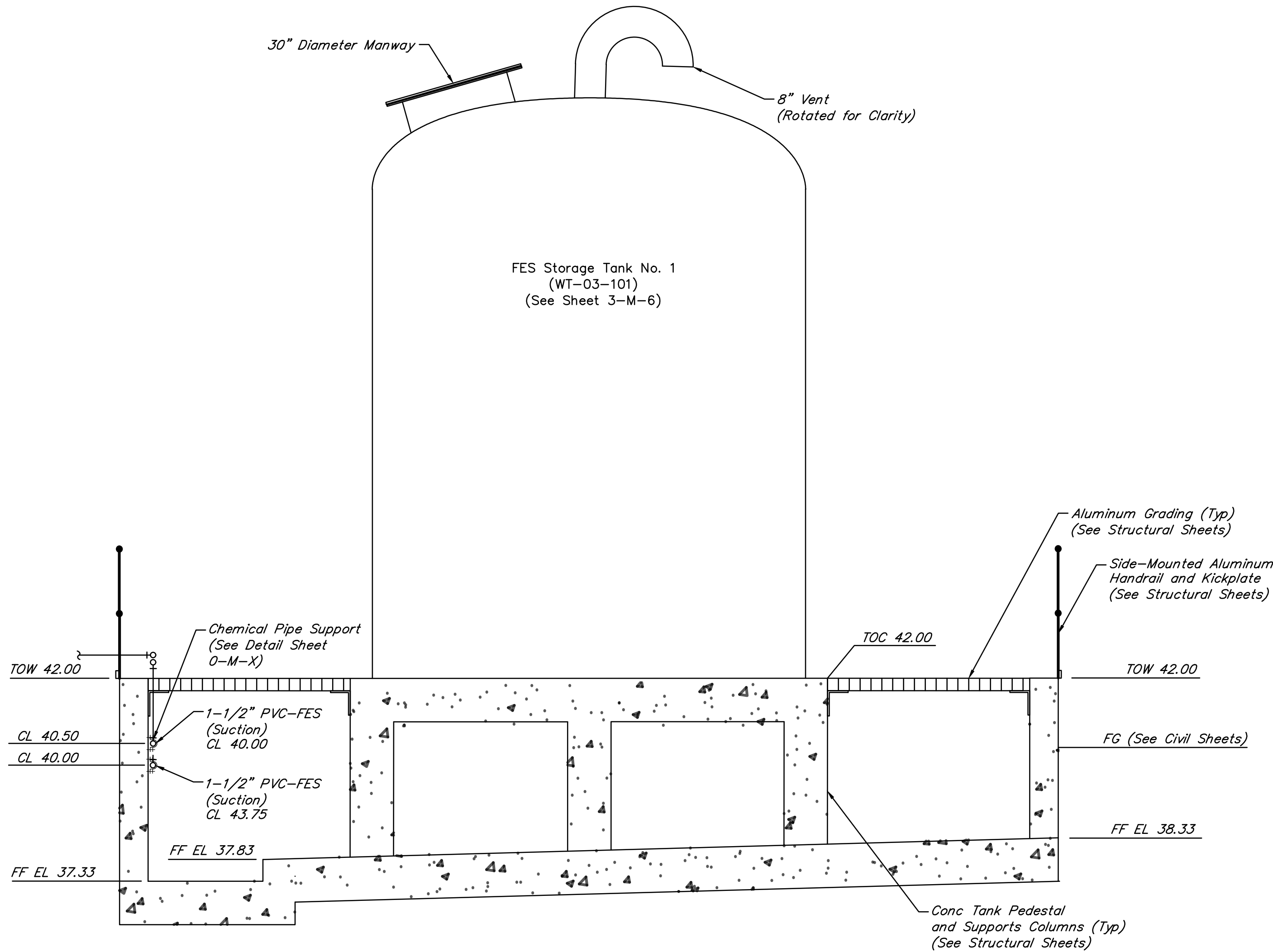
SCOTT STREET No. 1
LIFT STATION REHABILITATION

CHEMICAL STORAGE AND CONTAINMENT LOWER PLAN

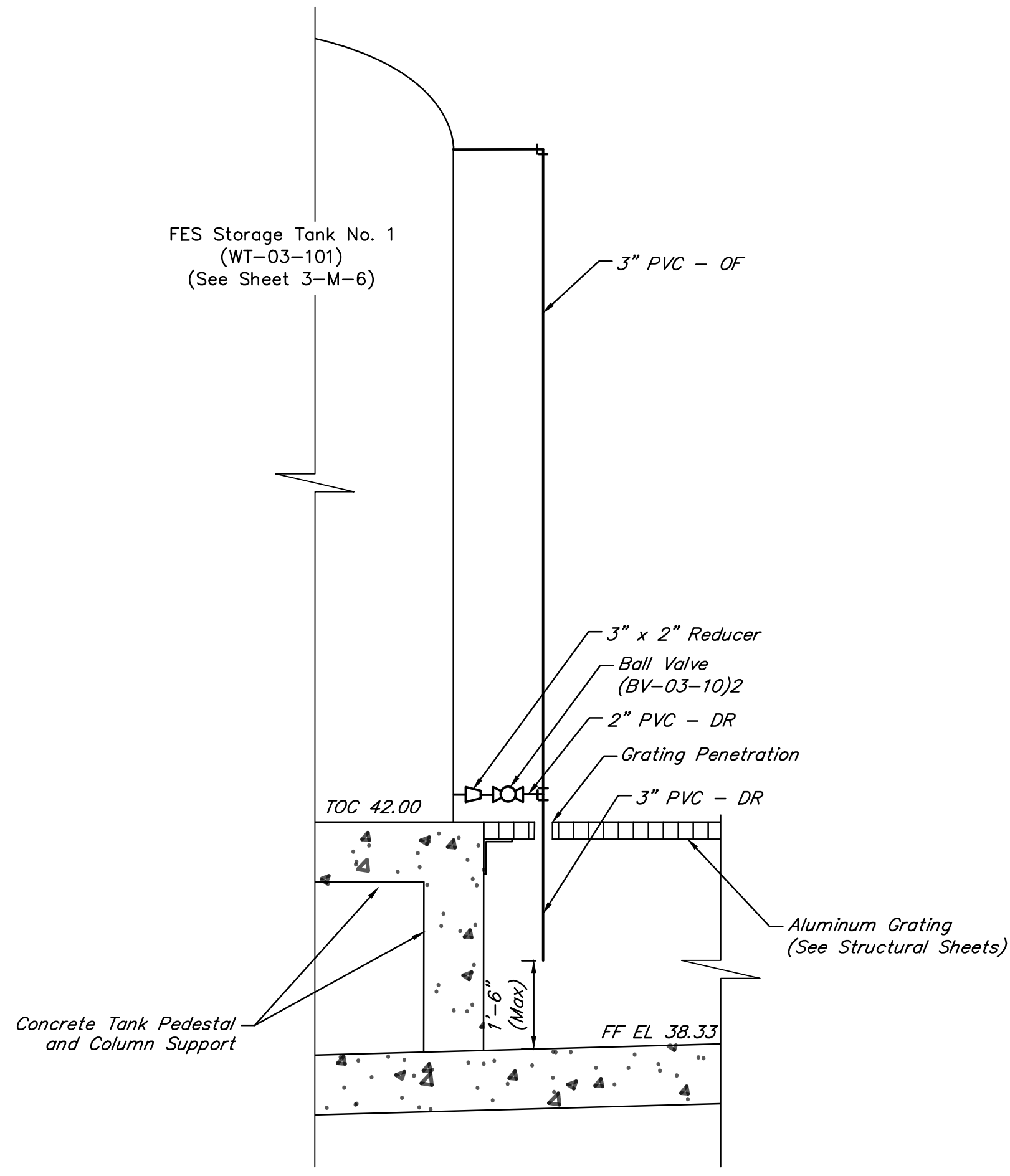
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX	
CATEGORY NO. 3-M-3	SHEET NO. 68 OF XXX
FOR CITY OF HOUSTON USE ONLY	

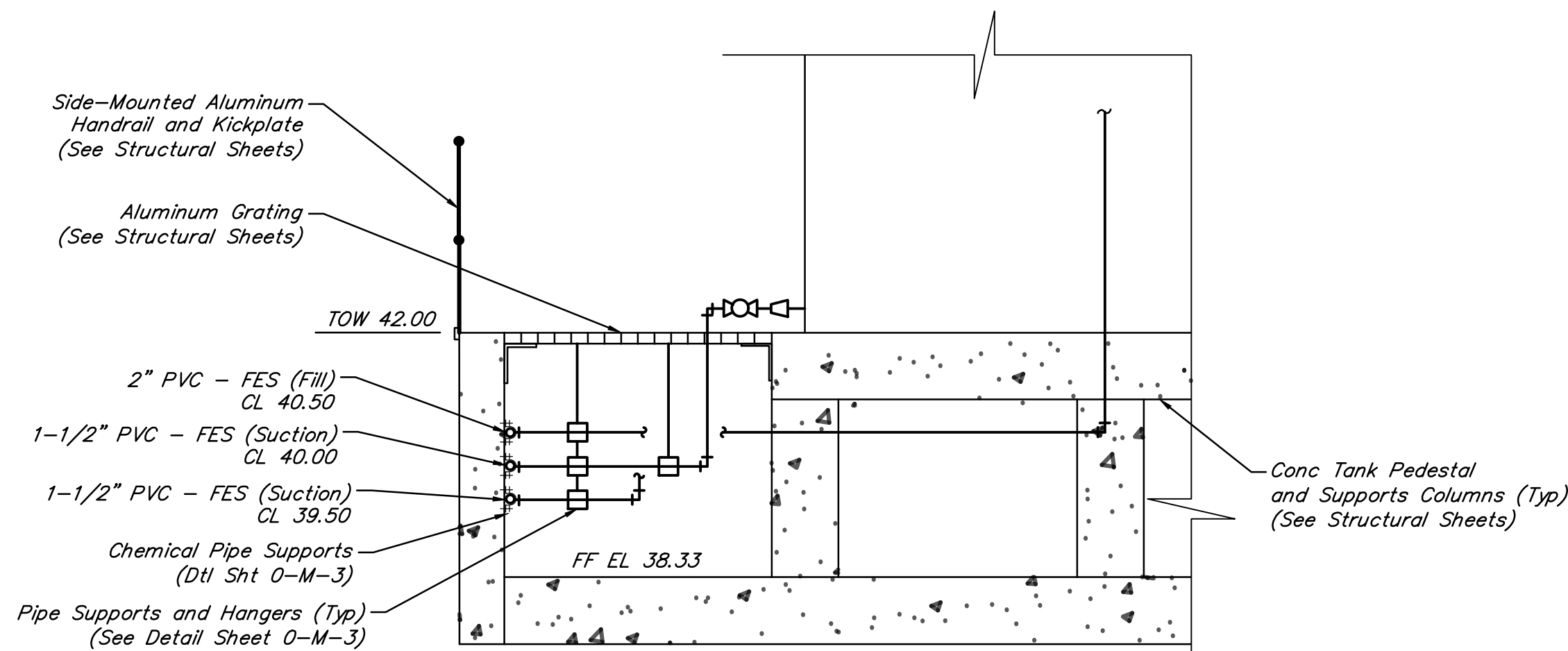
CHEMICAL SYSTEM PROPOSED LOWER PLAN EL 40.25
SCALE: 1/2" = 1'-0"



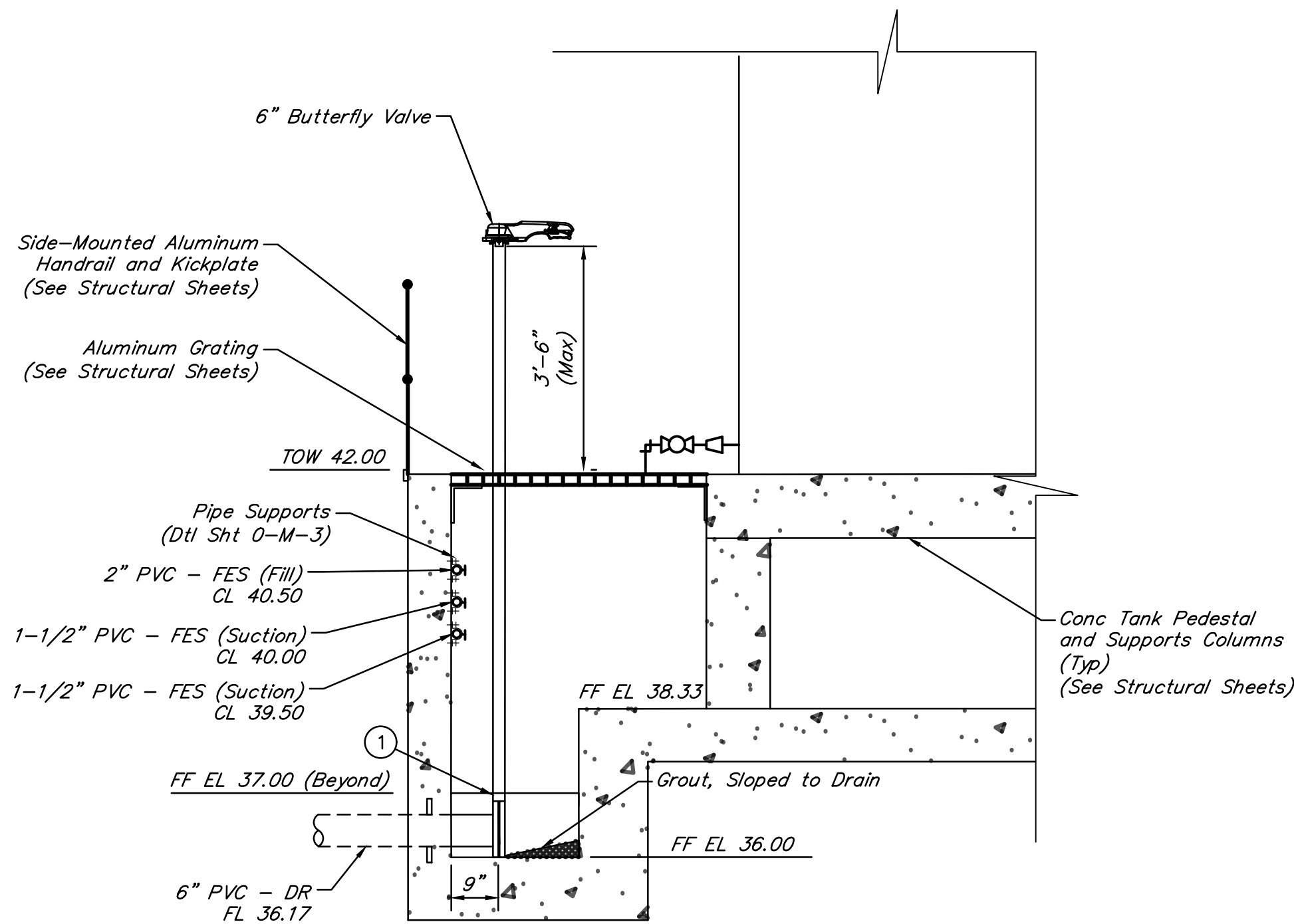
SECTION A
SCALE: 1/2" = 1'-0"



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



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



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

VALVES, FITTINGS AND ACCESSORIES SCHEDULE

No.	DESCRIPTION
①	6" Butterfly Valve (BFV-03-001) (See Note 4)

NOTES:

- Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
- Chemical piping running along the inside wall of the chemical containment pad shall be mounted with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".
- Chemical piping running to and from the chemical tanks and not supported along the inside wall of the chemical containment pad shall be mounted with pipe hangers & SS hardware. The maximum distance between supports shall be 4'-0".
- Install thermoplastic butterfly valves with extended lever operator. Attach valve to 6" PVC-DR line with 6" PVC solvent welded flange adapter. Notch grating for the valve stem.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.
Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

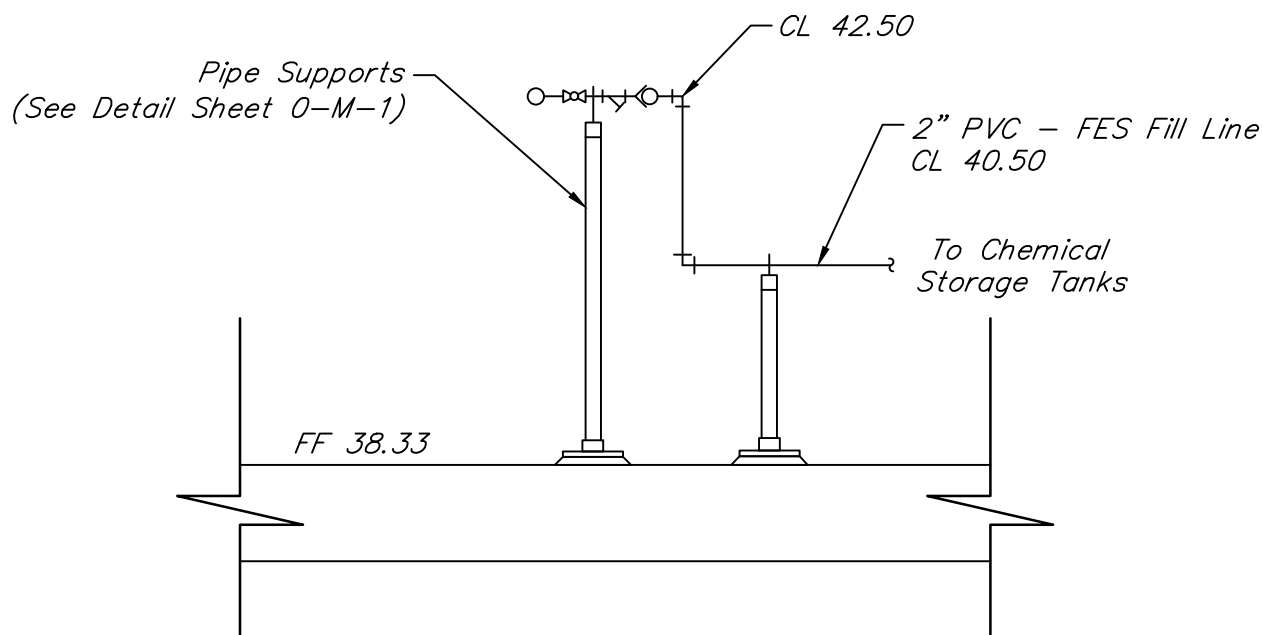
DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
CHEMICAL FEED SYSTEM
PROPOSED SECTION
SHEET 1 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

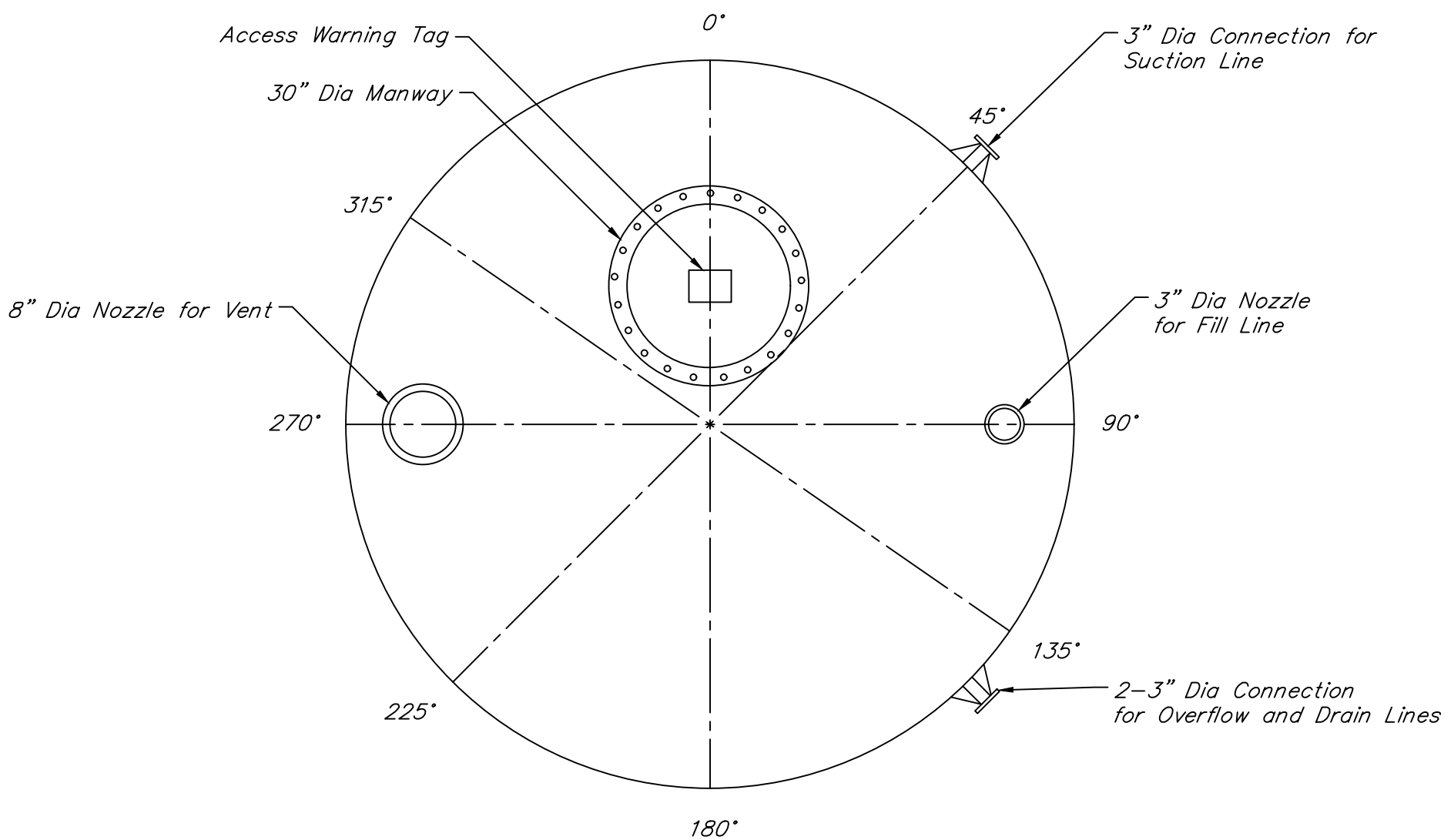
DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. **3-M-4** SHEET NO. 69 OF XXX
FOR CITY OF HOUSTON USE ONLY



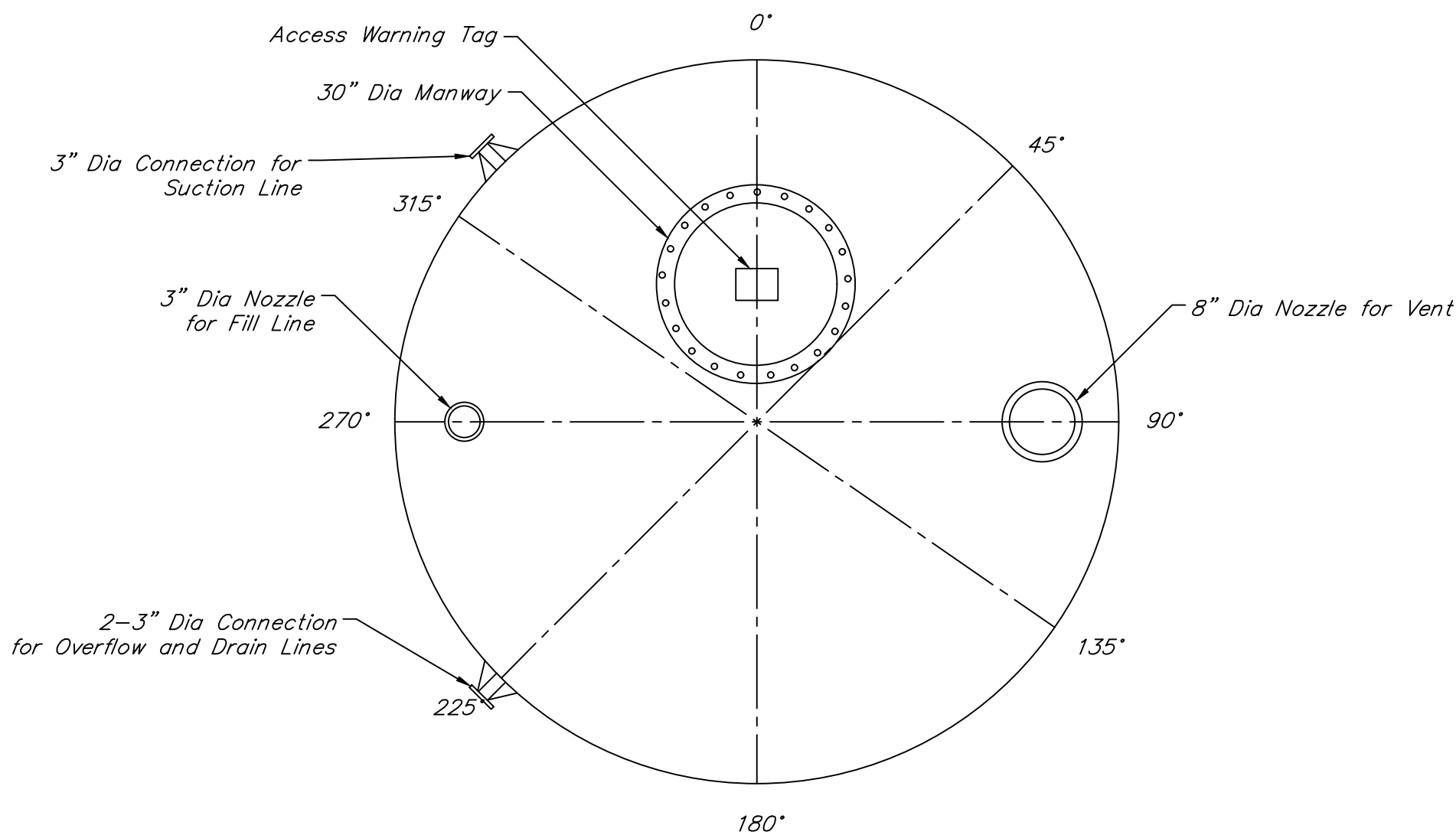
SECTION E
SCALE: 1/2" = 1'-0"

NOTES:

1. Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
2. Mount all small diameter piping to wall with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".



FERROUS SULFATE STORAGE TANK Nos. 1 & 2 TOP VIEW - TRUE ORIENTATION
NOT TO SCALE



FERROUS SULFATE STORAGE TANK No. 3 TOP VIEW - TRUE ORIENTATION
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: HARRY W. ISENSEE III, P.E.
P.E. Serial No.: 144401
Date: NOVEMBER 2025



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

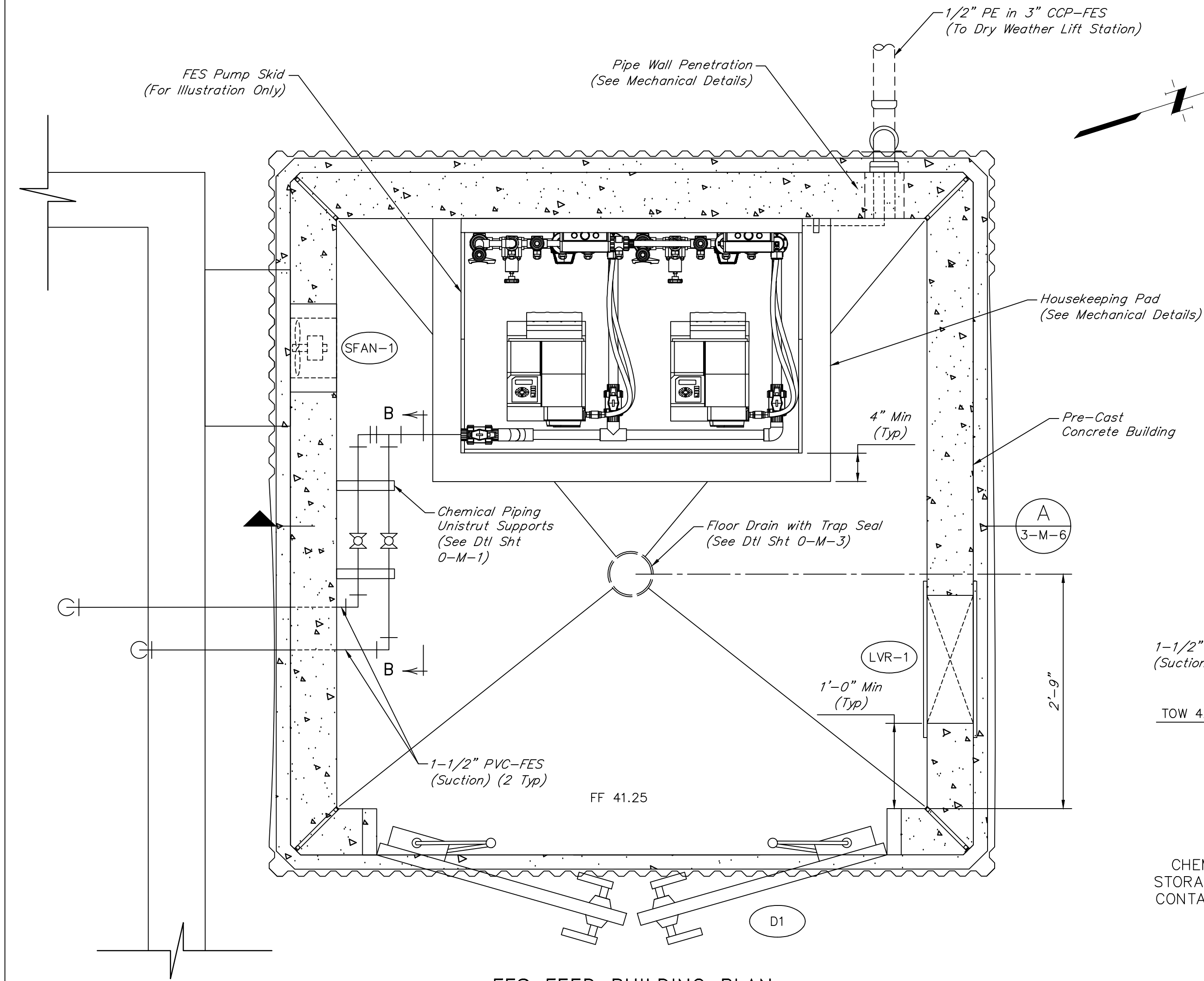
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

CHEMICAL TANK DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE NO SCALE HORIZ: XXX VERT: XXX
CATEGORY NO. 3-M-5 SHEET NO. 70 OF XXX
FOR CITY OF HOUSTON USE ONLY



FES FEED BUILDING PLAN

SCALE: 1"=1'-0"

DOOR SCHEDULE

ID NO	BUILDING	DOOR DESCRIPTION						FRAME		REMARKS
		TYPE	WIDTH	HEIGHT	THICK	MAT'L	FINISH	MAT'L	FINISH	
D1	FES	DOUBLE	6'-0"	7'-0"	1'-3/4"	FRP	PAINT	FRP	GELCOAT	NOTES #1, 2, 3

DOOR NOTES:

- Provide weatherstripping.
- Provide padlock.
- Provide windspeed rating for 110 mph with 3-second gusts.

FAN SCHEDULE

ID NO	LOCATION	MIN FLOW (CFM)	STATIC PRESSURE IN WC (IN)	BLADE DIA	MANUFACTURER /MODEL	MOUNTING		NOTES
						TYPE	LOCATION	
SFAN-1	FES FEED BUILDING	246	0.25	10"	DAYTON/1BLH6	WALL	HIGH	#1, 2, 3, 4, 5, 6, 7

FAN NOTES:

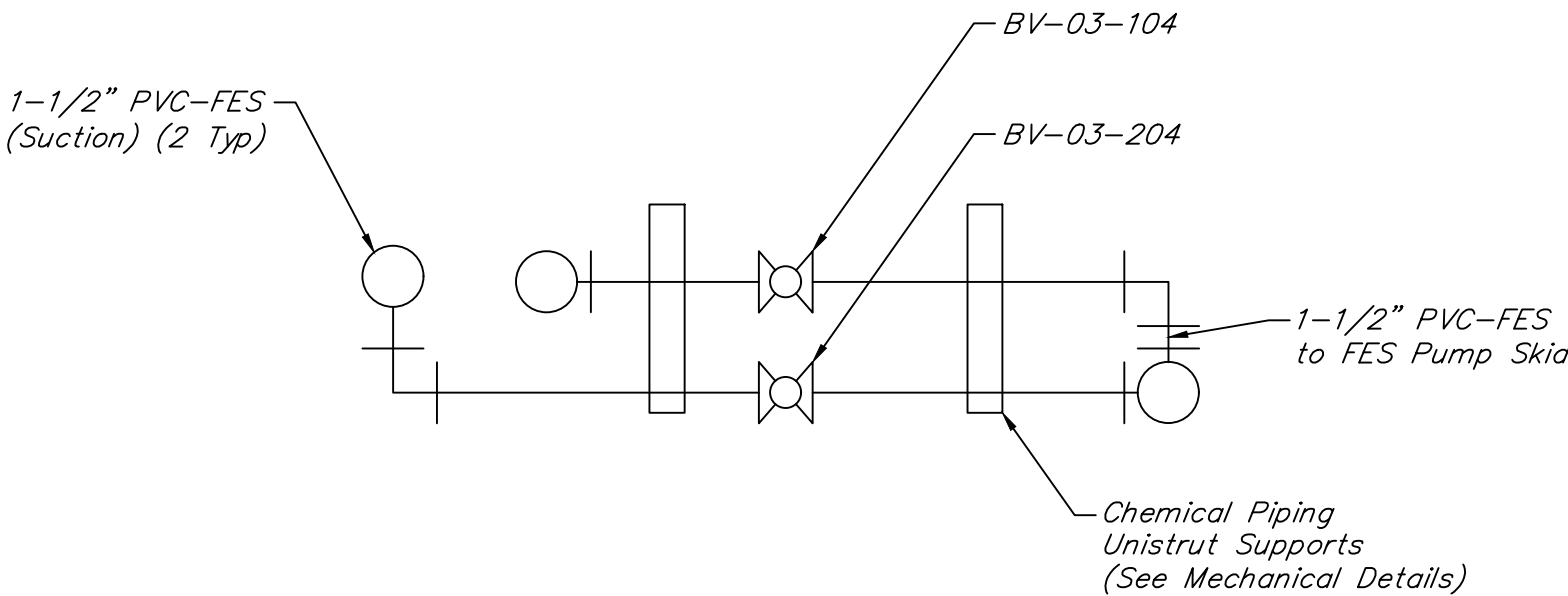
- Provide disconnect switch.
- Provide birdscreen.
- Provide backdraft dampers.
- Provide weather hood.
- Provide factory mounted brackets and hanging kit.
- Provide FRP material.
- Interlock with local switch.

LOUVER SCHEDULE

ID NO	LOCATION	SERVICE	MIN SHUTTER FREE AREA (SF)	SIZE (IN)	MANUFACTURER /MODEL	MOUNTING		REMARKS
						TYPE	LOCATION	
LVR-1	FES FEED BUILDING	SUPPLY	0.4	12	DAYTON 805TT9	WALL	LOW	NOTES #1, 2

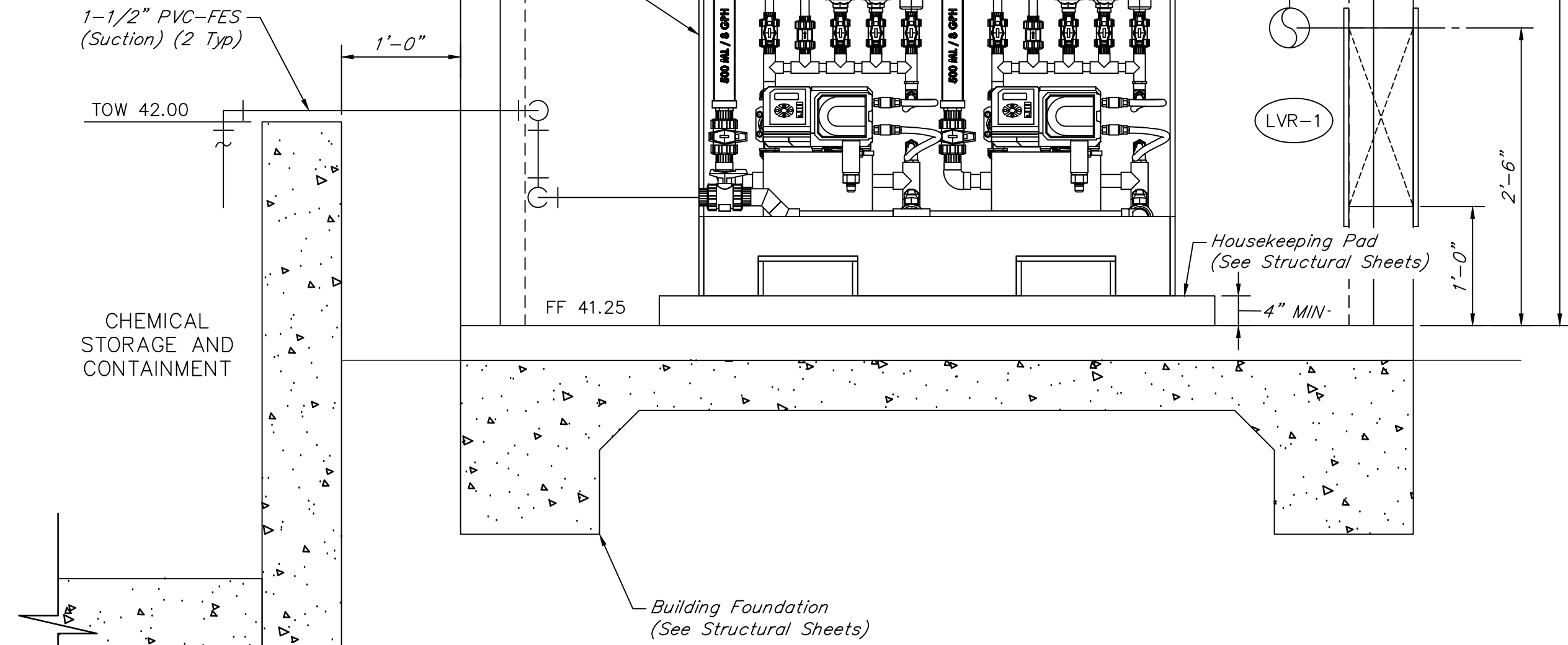
LOUVER NOTES:

- Provide birdscreen.
- Provide FRP material.



SECTION B-B

NOT TO SCALE



FES BUILDING SECTION A

SCALE: 1"=1'-0"

NOTES:

- Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
- Mount all small diameter piping to wall with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: HARRY W. ISENSEE III, P.E.

P.E. Serial No.: 144401

Date: NOVEMBER 2025



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JULY 2025 DGN BY: CTHOMAS
JOB NO: 00050-0099-01 DWG BY: CHUDSON

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

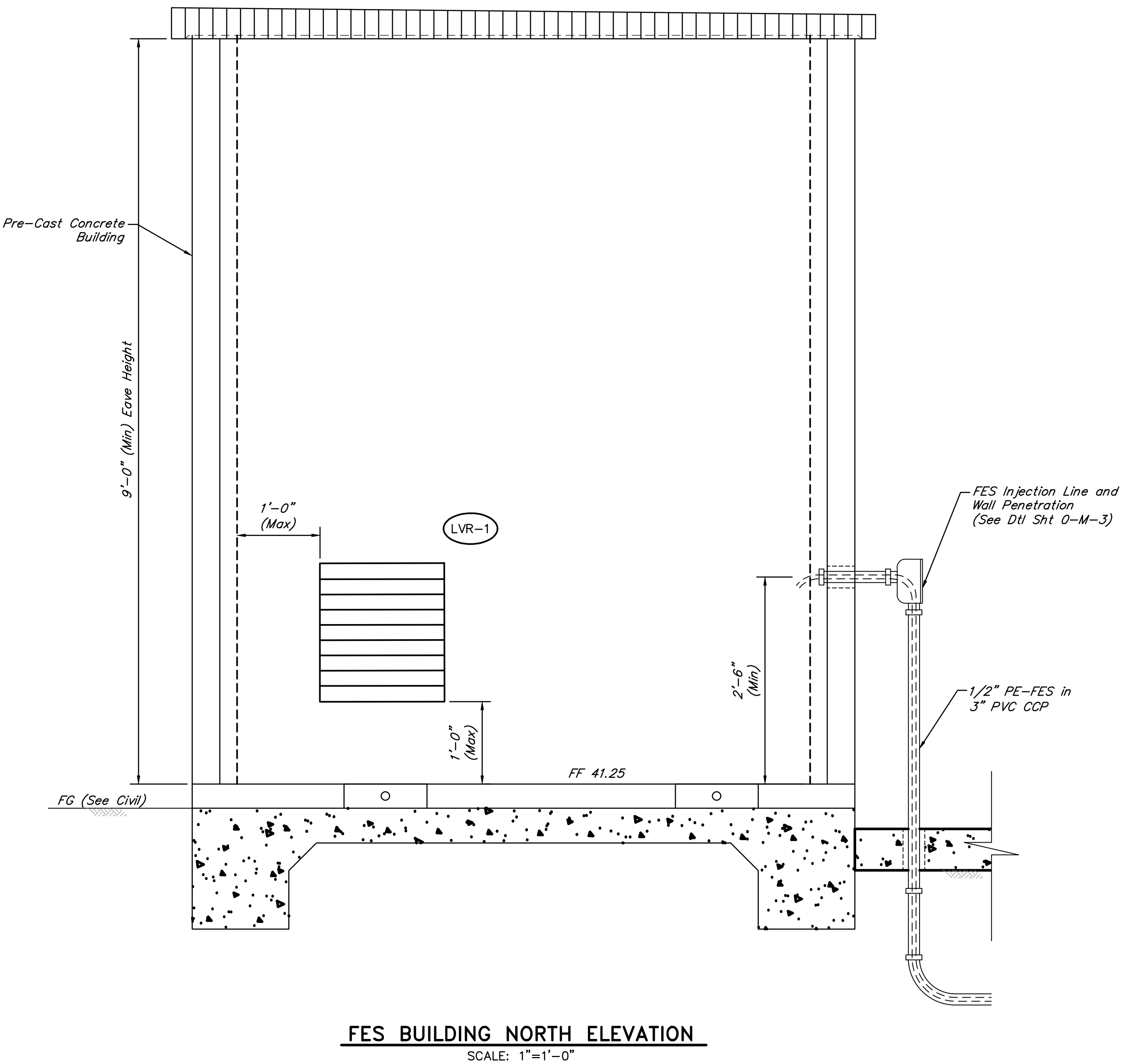
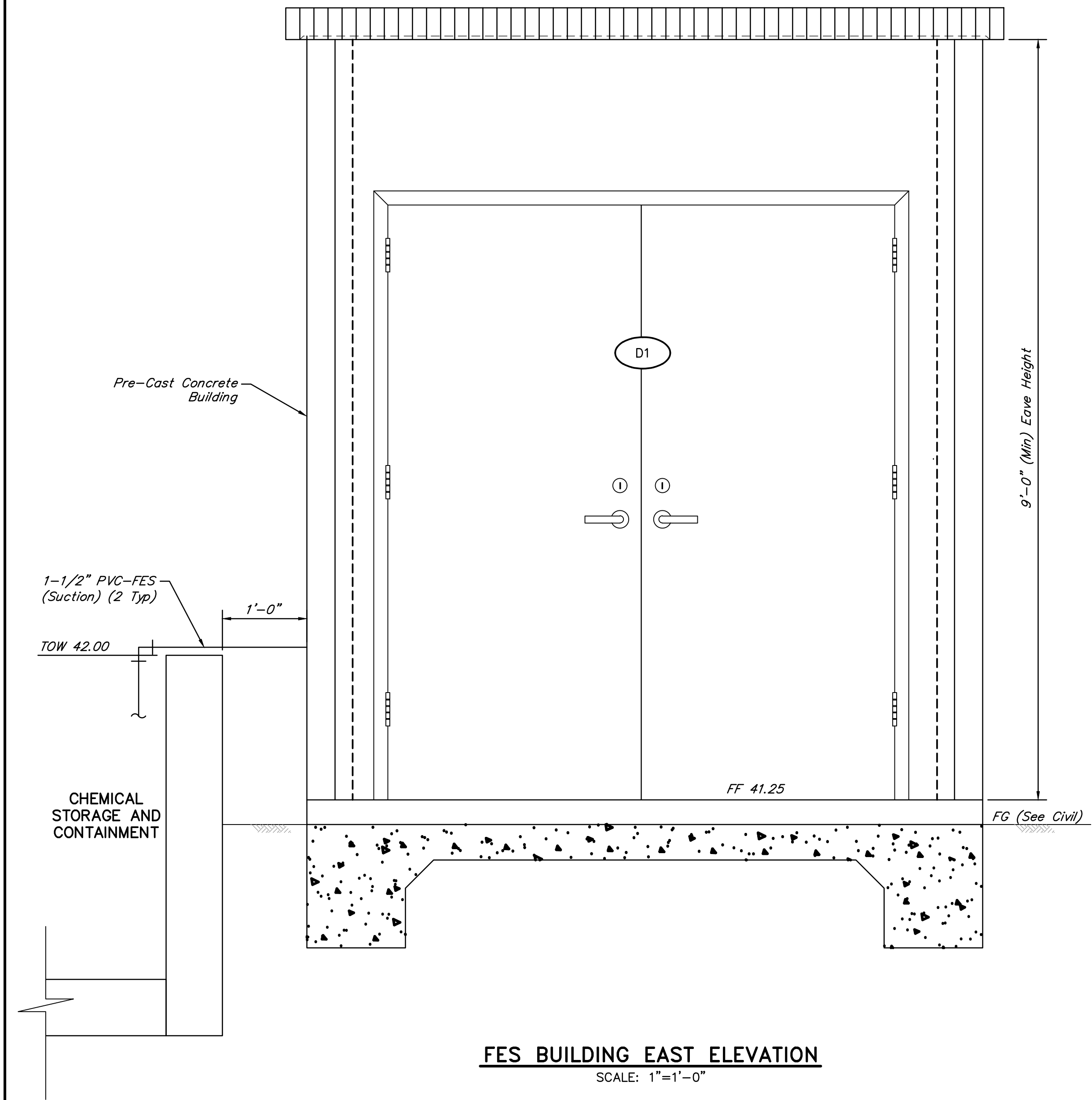
**FES FEED BUILDING
PLAN AND SECTIONS
SHEET 1 OF 2**

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

CATEGORY NO. **3-M-6** SHEET NO. 71 OF XXX

FOR CITY OF HOUSTON USE ONLY



NOTES:

1. Pipes with diameter less than 3" do not have all valves and fittings shown and are not labeled with valve and accessories schedule. Refer to P&ID.
2. Chemical piping running along the inside wall of the chemical containment pad shall be mounted with FRP unistrut & SS hardware. The maximum distance between supports shall be 4'-0".
3. Chemical piping running to and from the chemical tanks and not supported along the inside wall of the chemical containment pad shall be mounted with pipe hangers & SS hardware. The maximum distance between supports shall be 4'-0".

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: **HARRIS COUNTY** SEE, I.P.E.E.
P.E. Serial No.: **544481**
Date: **JANUARY 2026**

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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MEMORABLE
JOB NO: 00050-0099-01	DWG BY: CHUDSON

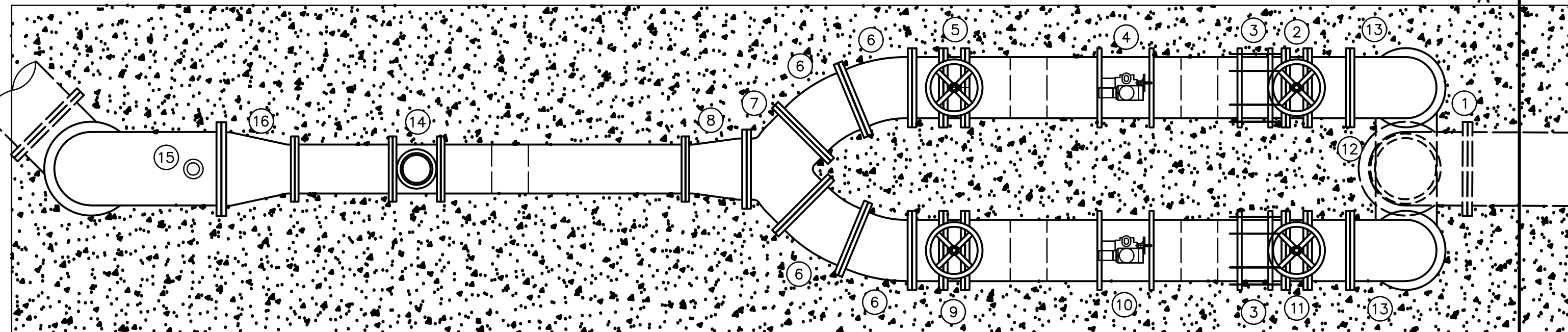
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION
**FES FEED BUILDING
PLAN AND SECTIONS
SHEET 2 OF 2**

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

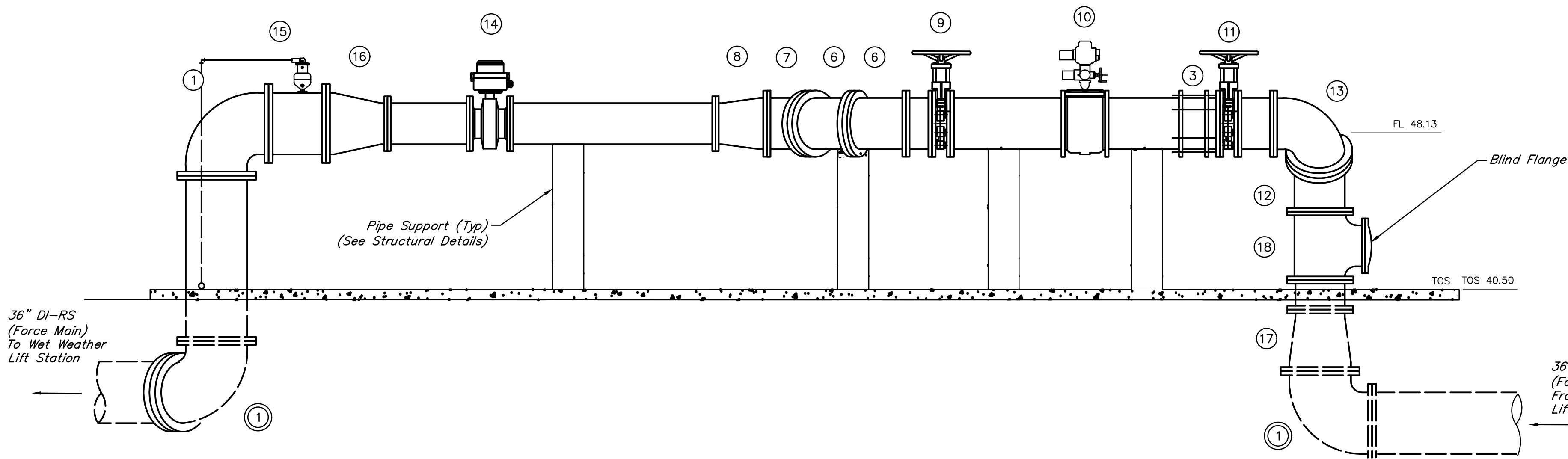
DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. **3-M-7** SHEET NO. 72 OF XXX
FOR CITY OF HOUSTON USE ONLY

36" DI-RS
(Force Main)
To Wet Weather
Lift Station



36" DI-RS
(Force Main)
From Wet Weather
Lift Station

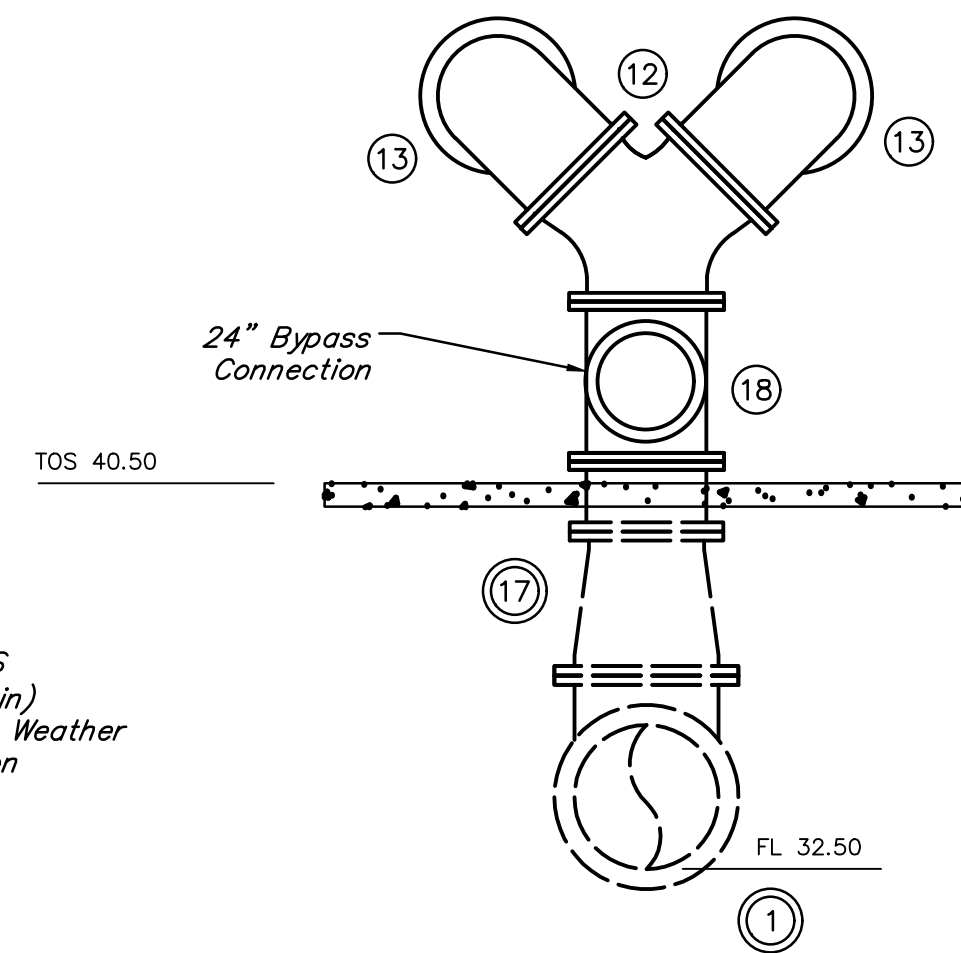
PLAN VIEW
SCALE: 1/4"=1'-0"



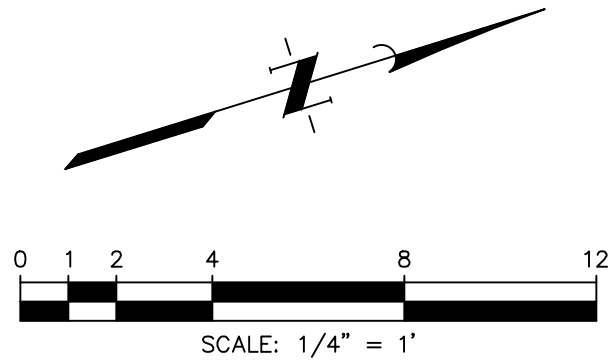
SECTION VIEW B-B
SCALE: 1/4"=1'-0"

VALVE AND ACCESSORIES SCHEDULES	
No.	DESCRIPTION
①	36" 90° Bend, MJ
②	30" Knife Gate Valve, FJ (KGV-02B-105)
③	30" Dismantling Joint, FJ
④	30" Actuated Flow Control Valve, FJ (PV-02B-001)
⑤	30" Knife Gate Valve, FJ (KGV-02B-105)
⑥	30" 22.5° Bend, FJ
⑦	30" Wye Connection, FJ
⑧	30" x 24" Reducer, FJ
⑨	30" Knife Gate Valve, FJ (KGV-02B-106)
⑩	30" Actuated Flow Control Valve, FJ (PV-02B-002)
⑪	30" Knife Gate Valve, FJ (KGV-02B-106)
⑫	30" Wye Connection, FJ
⑬	30" 90° Bend, FJ
⑭	24" Flow Meter
⑮	Combination Air Release Valve
⑯	24" x 36" Reducer, FJ
⑰	36" x 30" Reducer, FJ
⑱	30" x 30" x 24" Tee, FJ

⊙ Denotes the use of a restrained, push-on connection



SECTION VIEW A-A
SCALE: 1/4"=1'-0"



NOTES:

- Contractor shall apply protective coating to all proposed above ground piping.
- All proposed valves shall be installed with position indicator.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: MBMITCHELL
JOB NO: 00050-0099-01	DWG BY: JMMUSSO

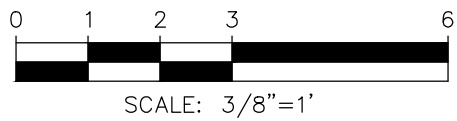
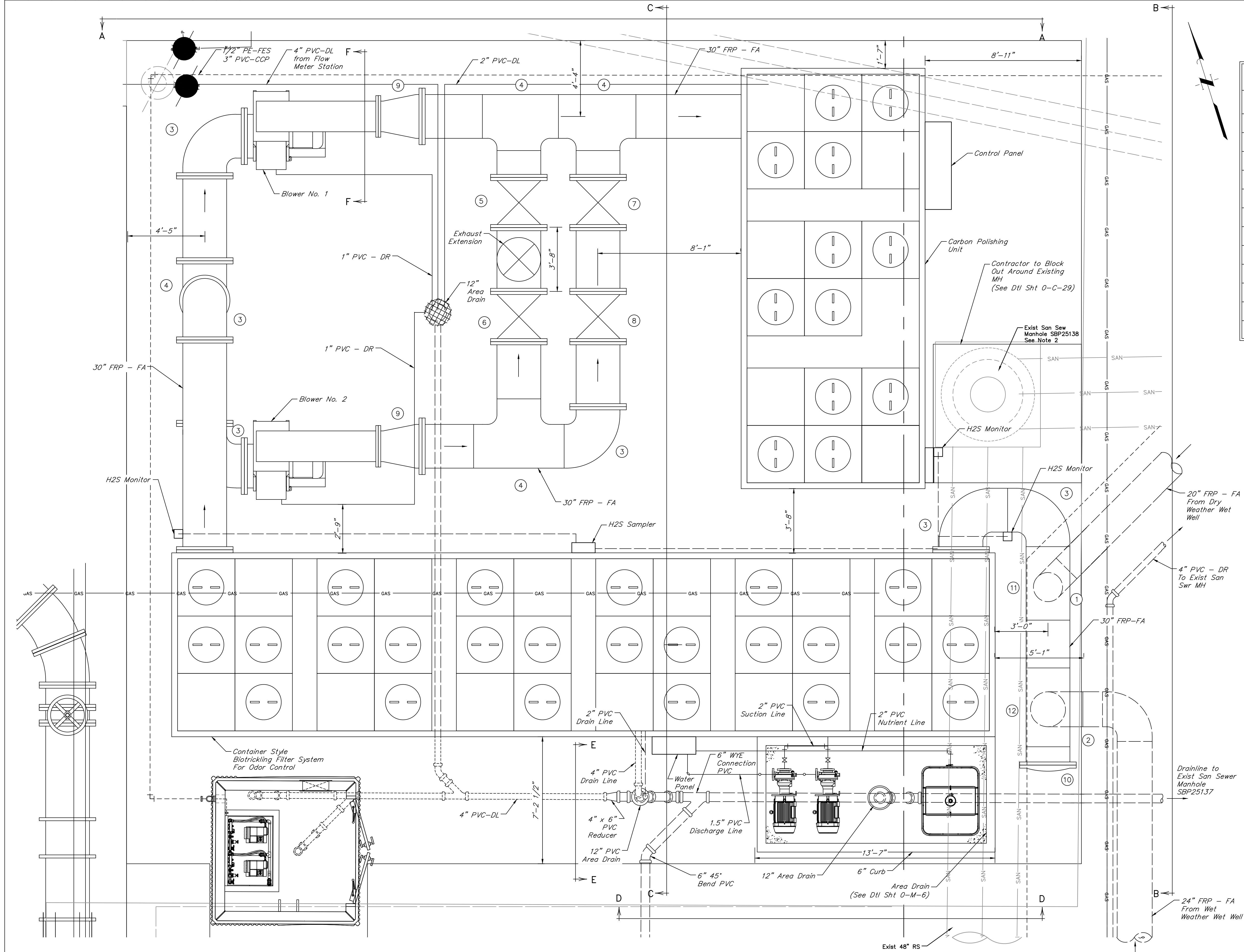
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

WET WEATHER LIFT STATION
FLOW METER STATION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 4-M-1 SHEET NO. 62 OF XXX
FOR CITY OF HOUSTON USE ONLY



VALVE AND ACCESSORIES SCHEDULES	
No.	DESCRIPTION
1	20" 90° Bend, FJ
2	24" 90° Bend, FJ
3	30" 90° Bend, FJ
4	30" TEE, FJ
5	30" Butterfly Valve, FJ (BFV-04-101)
6	30" Butterfly Valve, FJ (BFV-04-102)
7	30" Butterfly Valve, FJ (BFV-04-103)
8	30" Butterfly Valve, FJ (BFV-04-104)
9	(15"x21") Rectangular X 30" Circular Reducer, FJ
10	30" Blind Flange, FJ
11	20" x 30" Tee, FJ
12	24" x 30" Tee, FJ

NOTES:

1. See Sheet 5-M-2 for Notes.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: WILLIAM R. SAGASTIZADO, P.E.
P.E. Serial No.: 125999
Date: JANUARY 2026

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

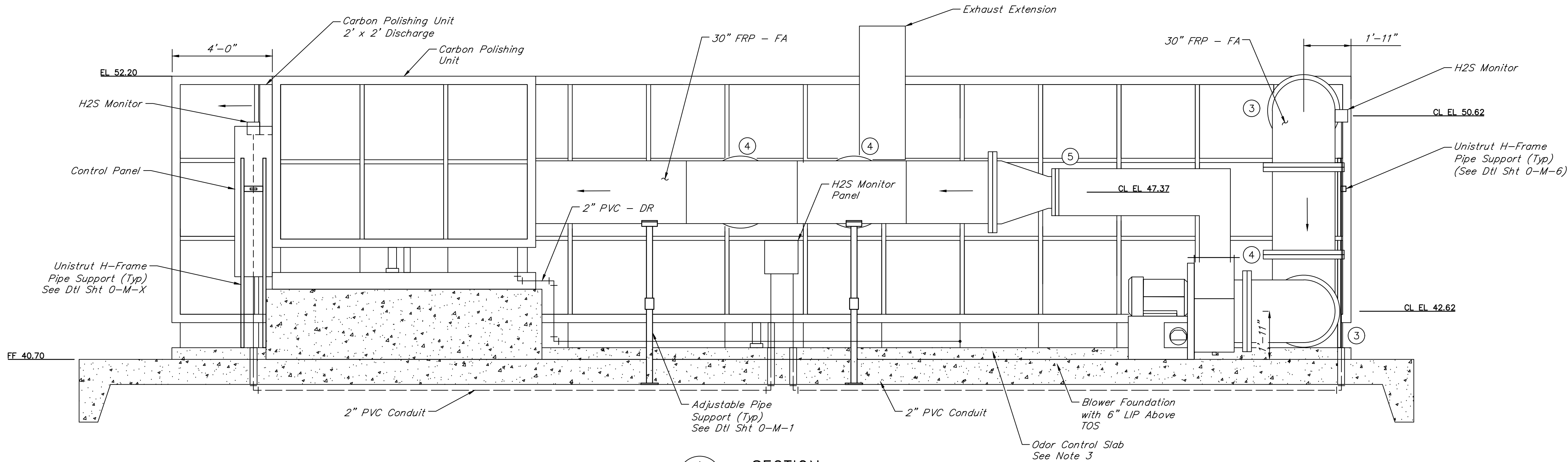
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

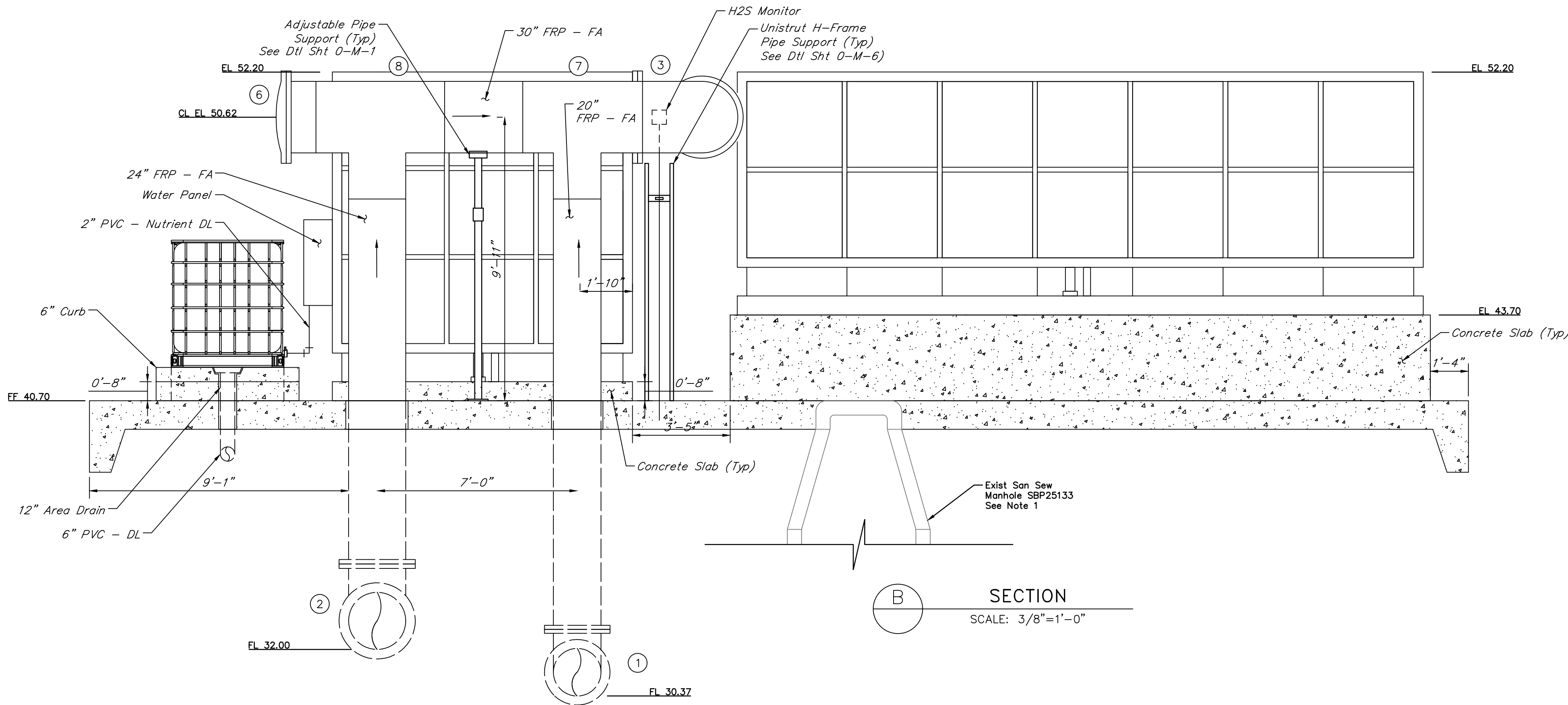
ODOR CONTROL SYSTEM
PROPOSED PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/8"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 5-M-1 SHEET NO. 73 OF XXX
FOR CITY OF HOUSTON USE ONLY



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



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

VALVE AND ACCESSORIES SCHEDULES

No.	DESCRIPTION
①	20" 90° Bend, FJ
②	24" 90° Bend, FJ
③	30" 90° Bend, FJ
④	30" TEE, FJ
⑤	(15"x21") Rectangular X 30" Circular Reducer, FJ
⑥	30" Blind Flange, FJ
⑦	20" x 30" TEE, FJ
⑧	24" x 30" Tee, FJ

NOTES:

- Contractor to stencil flow direction arrows every 10'.
- Exist 7' Sanitary Sewer MH rim elevation to be raised with adjustment rings as required to match FF elevation of odor control pad.
- Contractor to provide yellow-stripe visual marker to differentiate odor control slab from finished floor.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: WILLIAM R. SAGASTIZADO, P.E.

P.E. Serial No.: 125999

Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

ODOR CONTROL SYSTEM
PROPOSED SECTION 1 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

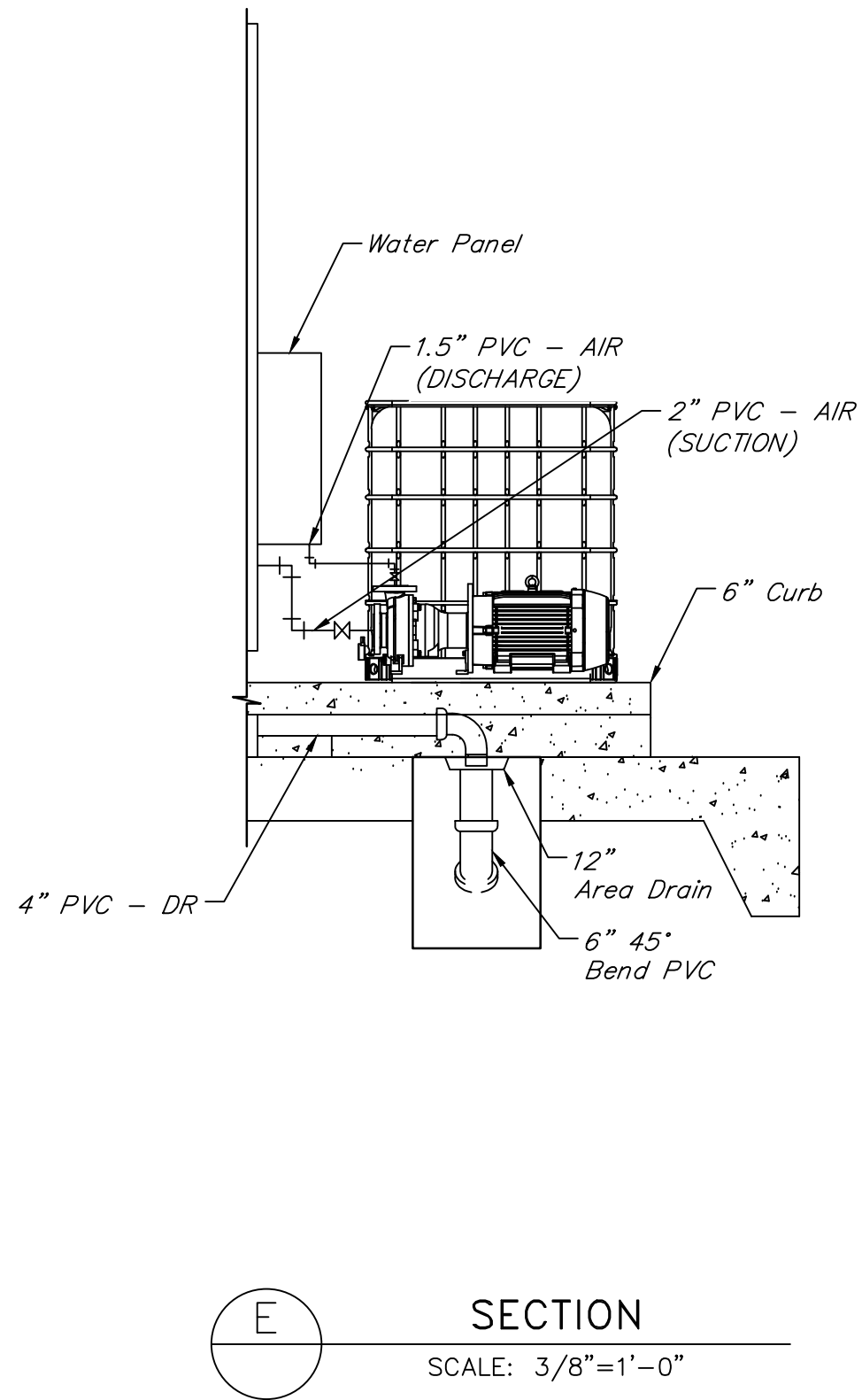
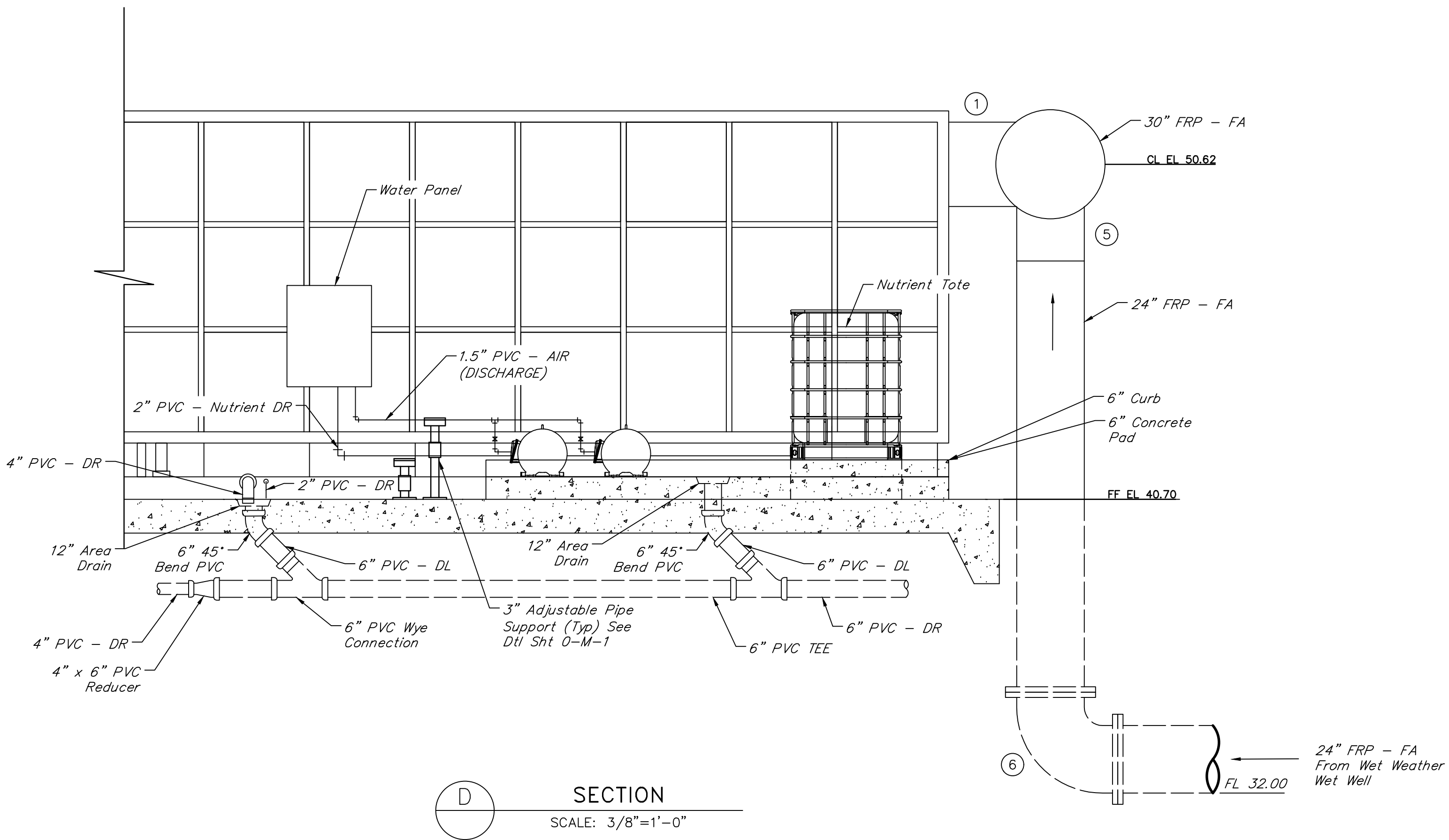
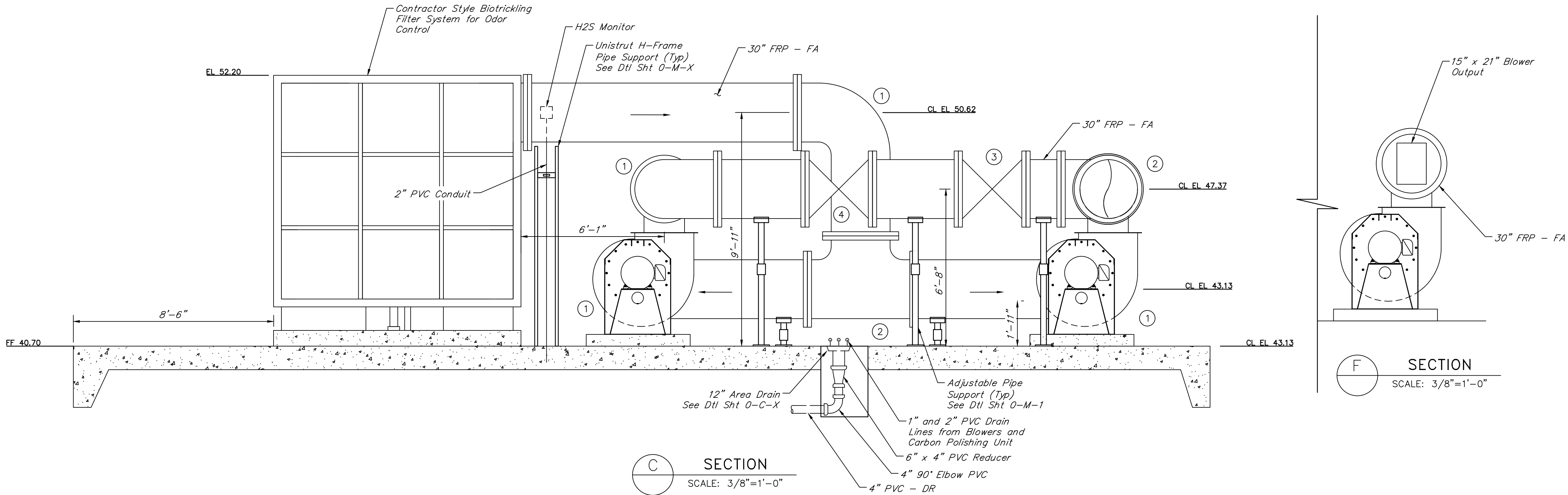
DRAWING SCALE 3/8"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 5-M-2 SHEET NO. 74 OF XXX
FOR CITY OF HOUSTON USE ONLY

VALVE AND ACCESSORIES SCHEDULES

No.	DESCRIPTION
①	30" 90° Bend, FJ
②	30" TEE, FJ
③	30" Butterfly Valve, FJ (BFV-04-103)
④	30" Butterfly Valve, FJ (BFV-04-104)
⑤	24" x 30" Tee, FJ
⑥	24" 90° Bend, FJ

NOTES:

- Contractor to stencil flow direction arrows every 10'.
- Contractor to provide yellow-stripe visual marker to differentiate odor control slab from finished floor.



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

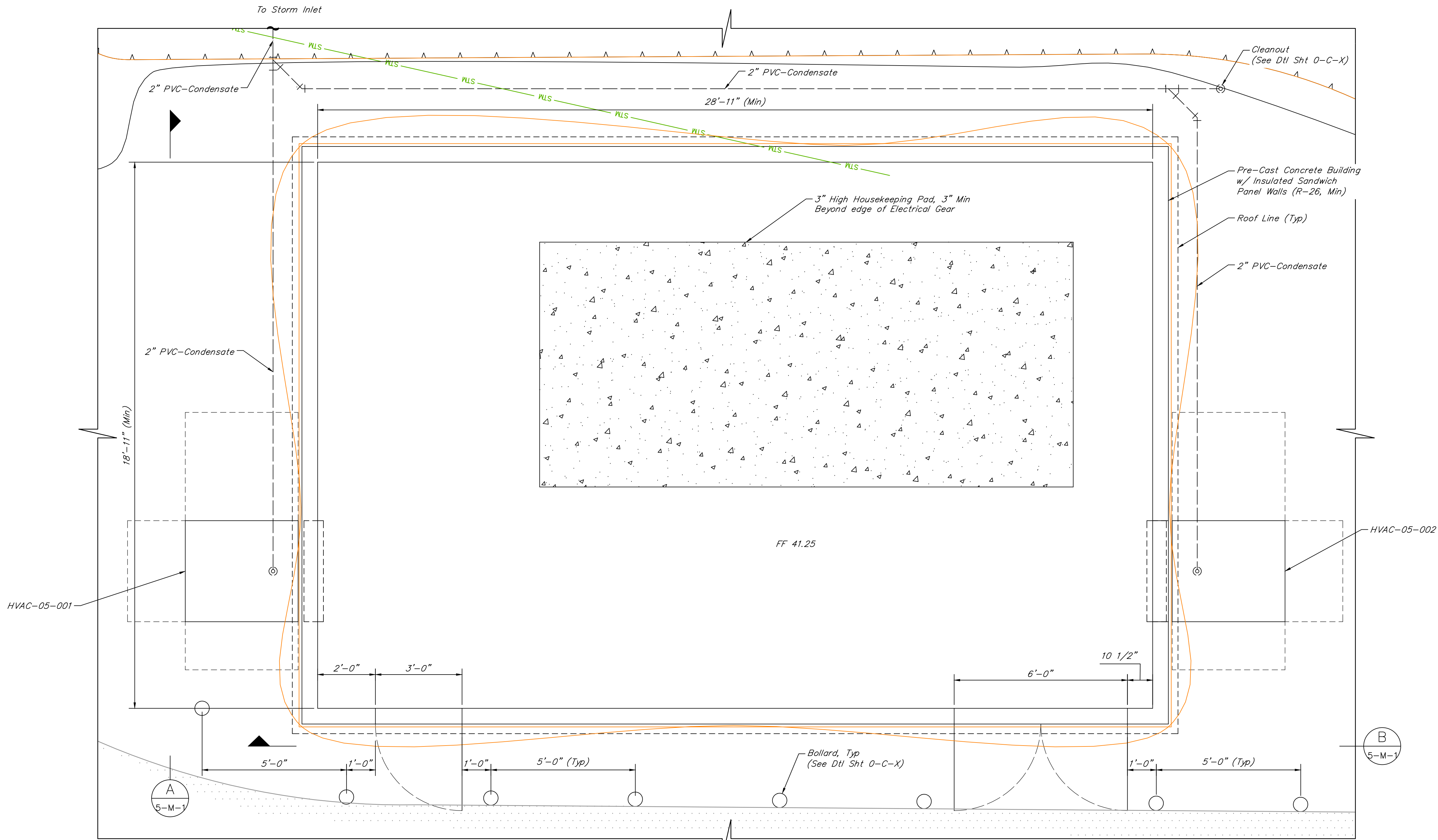
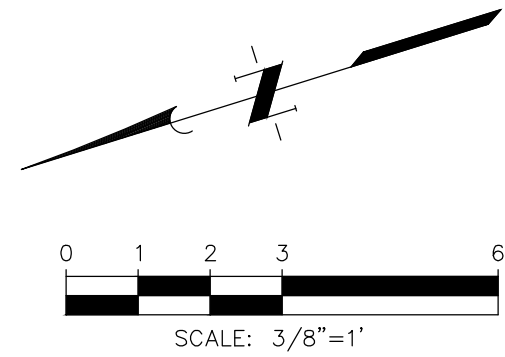
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

ODOR CONTROL SYSTEM
PROPOSED SECTION 2 OF 2

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/8"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 5-M-3 SHEET NO. 75 OF XXX
FOR CITY OF HOUSTON USE ONLY



ELECTRICAL BUILDING No. 1 PLAN
SCALE: 1/2"=1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: H. ESCALANTE, JR., P.E.
P.E. Serial No.: 54444
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

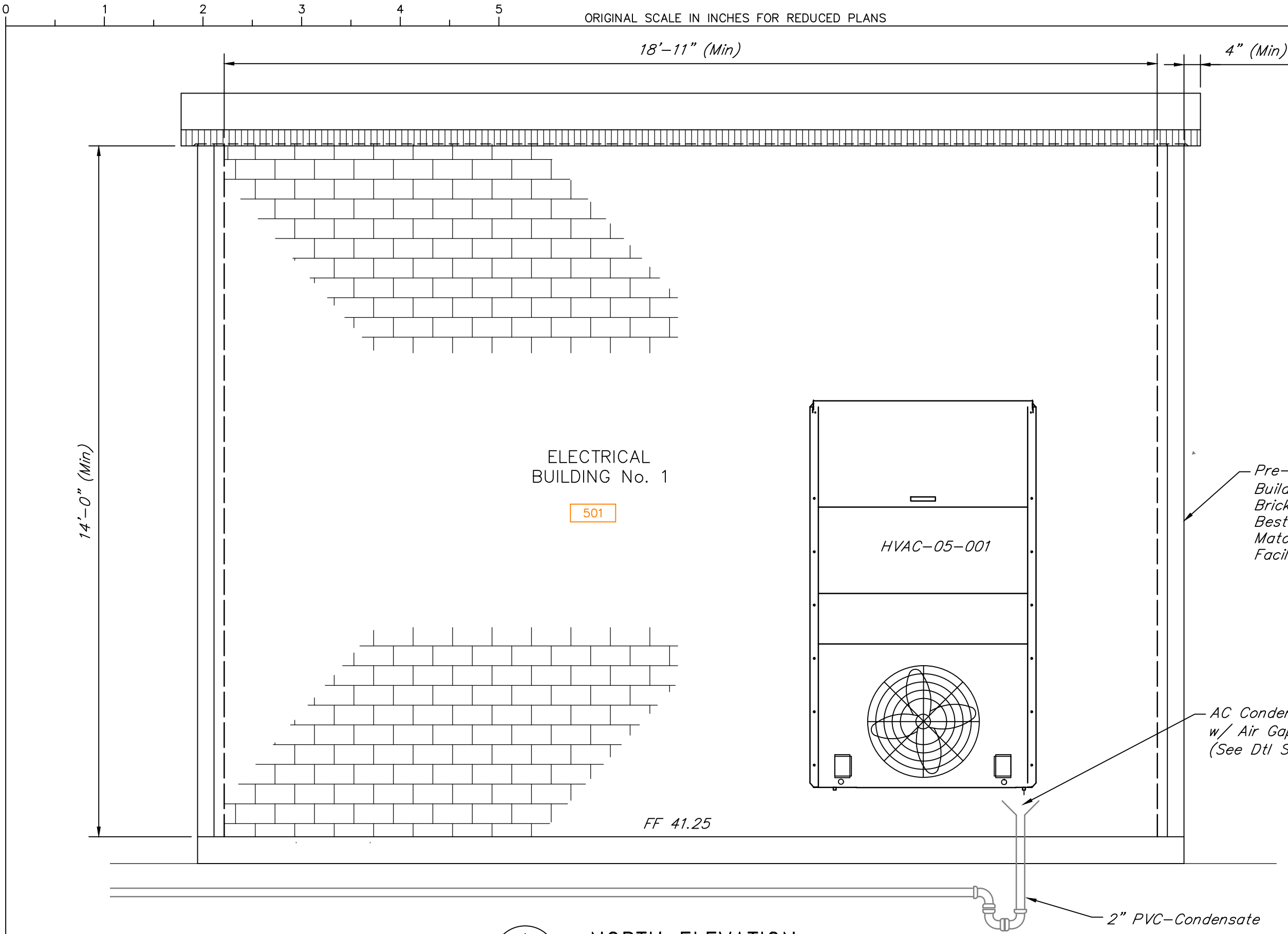
NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

ELECTRICAL BUILDING No. 1
BUILDING PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

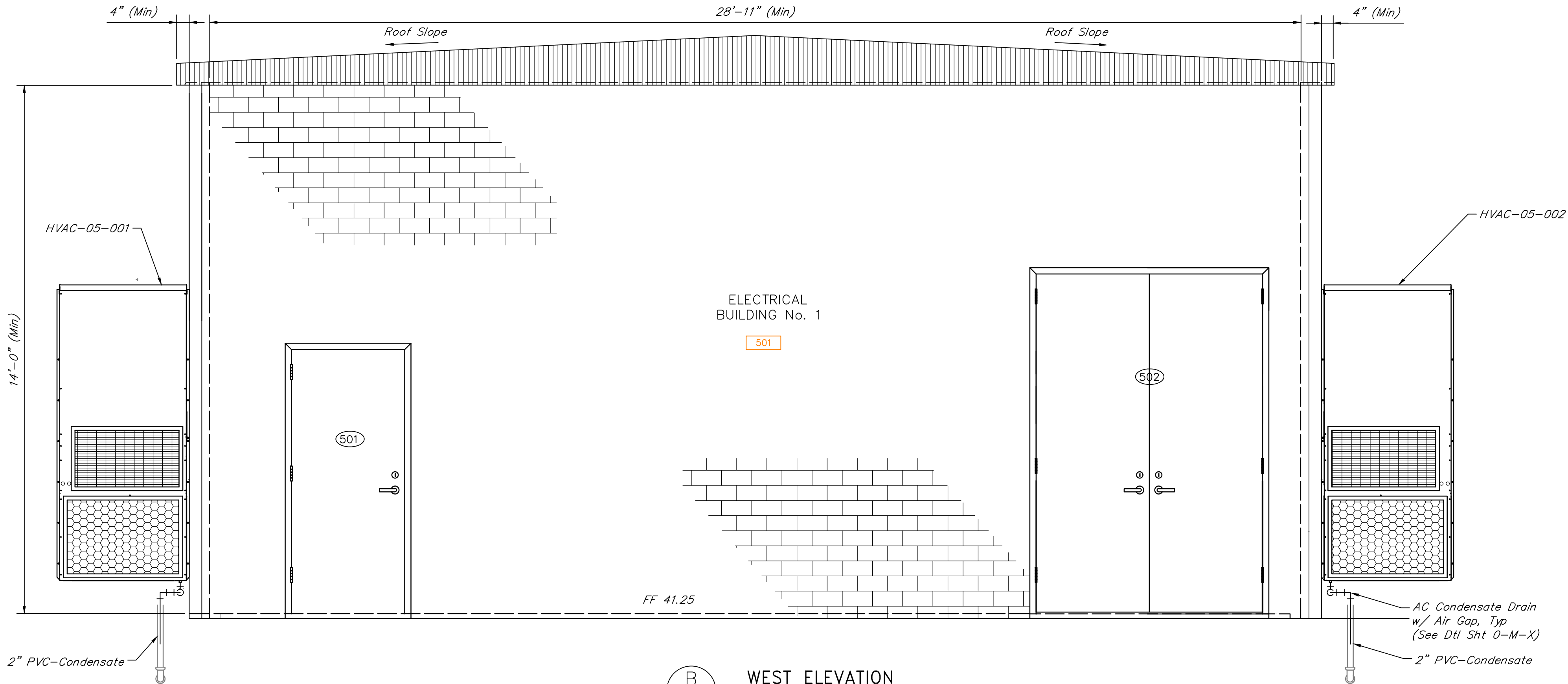
DRAWING SCALE 3/8"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 6-M-1 SHEET NO. 76 OF XXX
FOR CITY OF HOUSTON USE ONLY



A NORTH ELEVATION

5-M-1

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



B WEST ELEVATION

5-M-1

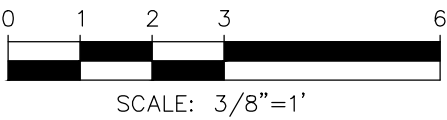
SCALE: 1/2"=1'-0"

DOOR SCHEDULE										
I.D. No.	ROOM	DOOR DESCRIPTION						FRAME		REMARKS
		TYPE	WIDTH	HEIGHT	THICK	MAT'L	FINISH	MAT'L	FINISH	
501	Elec Bldg 2	SINGLE	3'-0"	7'-0"	1 3/4"	METAL	PAINT	METAL	PAINT	NOTES 1 - 8
502	Elec Bldg 2	DOUBLE	6'-0"	9'-0"	1 3/4"	METAL	PAINT	METAL	PAINT	NOTES 1 - 9

ROOM SCHEDULE										
ROOM No.	ROOM NAME	CEILING HEIGHT	CEILING	FLOOR	BASE	MILLWORK	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL
501	ELEC BLDG No. 1	14'-0"	OPEN	SC-01	NONE	NONE	BF-01	BF-01	BF-01	BF-01

FINISH SCHEDULE					
TAG	TYPE	COMPANY	NAME	MODEL	SIZE
SC-01	SEALED CONCRETE	W.R. MEADOWS	VOVOMP	-----	-----
BF-01	CONCRETE	SPECIFICATION 03430	SPECIFICATION 03430	SPECIFICATION 03430	SPECIFICATION 03430

- DOOR NOTES:
- Provide panic hardware (interior).
 - Provide pull handle (exterior).
 - Provide closer.
 - Provide weather strip.
 - Provide door sweep.
 - Provide threshold.
 - Provide drip cap.
 - Provide wind speed rating for 110 mph with 3-second gust.
 - Provide astragal.



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: H. ESCALANTE, JR., P.E.

P.E. Serial No.: 54444

Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY: MBMITCHELL
JOB NO: 00050-0099-01 DWG BY: JMMUSSO

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

ELECTRICAL BUILDING No. 1
BUILDING ELEVATIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/8"=1' HORIZ: XXX VERT: XXX
CATEGORY NO. 6-M-2 SHEET NO. 77 OF XXX
FOR CITY OF HOUSTON USE ONLY

STRUCTURAL NOTES:

- I. GENERAL
- A. All concrete work shall be performed in accordance with ACI 301 specifications, including but not limited to formwork installation, reinforcement placement, concrete mixing, delivery, placement, consolidation, finishing, curing, and protection, ensuring compliance with required strength, durability, and surface quality standards.
- B. Design shall conform to the latest IBC Building Code requirements and latest ACI-318 code for concrete structures.
- C. All structural plan dimensions are interpreted from and shall be verified with the civil drawings. The engineer shall be notified if discrepancies exist.
- D. Structural drawings to be coordinated with civil, electrical, grading, mechanical drawings for all openings, inserts, elevation, and related items.
- E. All structural openings dimensions and locations shall be verified with the mechanical drawings. The engineer shall be notified if discrepancies exist.
- F. Any unusual conditions encountered shall be brought to the attention of the engineer prior to concrete placement.
- G. Locations of construction joints not shown shall be approved by the engineer prior to concrete placement.
- H. The contractor shall adhere to the trench and excavation safety requirements set forth in the occupational safety and health administration (OSHA) Standards 29 CFR, Part 1926, Subpart P, excavations.

- II. CONCRETE
- A. All concrete shall have a minimum compressive strength of 4000 PSI at 28 Days in accordance with ASTM C-39 at 28 days in accordance with ASTM C-78. An air entrainment agent shall be used. fly ash shall not be used.
- B. Where concrete is placed against forms or seal slabs, reinforcing bars shall have a minimum of 2 inches clear cover unless shown otherwise. Where concrete is placed against earth, or in contact with liquid, reinforcing bars shall have a minimum of 3 inches clear cover.
- C. Metal keyed construction joints and sawed joints may not be used. All joints below the highest water line shall have an approved waterstop.
- D. Apply float finish to slab surfaces to receive a trowel finish.
- E. All construction joints shall be thoroughly cleaned before fresh concrete is placed. Construction joints shall be roughened to a ¼" amplitude.
- F. Except where floor drains occur, depressions between high spots shall not be greater than 1/8 in. Below a 10 ft. long straightedge in accordance with ACI 302.
- G. Concrete faces shall not deviate more than 3/16" from the plan dimensions.
- H. All exposed edges of beams, columns, slabs and walls shall be chamfered ¾" unless masonry or other members are erected flush with them.
- J. Unless noted, anchor bolts and expansion bolts shall be stainless steel. All steel embedded items to be hot-dip galvanized.
- III. REINFORCING STEEL
- A. All reinforcing bars shall conform to ASTM A-615, grade 60. Arrangement and details of reinforcing steel, including bar supports and spacers, shall be in accordance with the latest ACI detailing manual, unless otherwise noted.
- B. Detailing of reinforcing shall be in accordance with ACI 315, latest edition, unless shown otherwise. Placing of reinforcing shall be in accordance with C.R.S.I., "Recommended practice for placing of reinforcing bars", latest edition.
- C. Where it is necessary to splice reinforcement at locations other than those shown on the drawings, the splice locations shall be approved by the engineer. Lap splices and embedment lengths, not shown on the drawings, shall be in accordance with C.R.S.I., Latest edition.
- D. Support for the reinforcement shall be by metal high chairs either galv. or plastic dipped and spaced not more than six feet center to center.
- E. All slab and beam reinforcement shall have a minimum extension into the support in accordance with the latest ACI code. If such extension is not possible, bars shall terminate in standard hooks.
- IV. FOUNDATIONS
- A. The mats should be poured the same day that they are excavated to minimize drying of the bearing soils. However, a lean concrete slab can be placed to protect the bearing area if the mats are left open overnight.
- B. Site grading, fill material properties, excavation, subgrade preparation soil improvement, and allowable bearing pressure, shall follow geotechnical report.

- V. STRUCTURAL STEEL:
- A. Structural steel shall conform to the latest AISC "Specification for the design,fabrication and erection of structural steel for buildings".
- B. Structural steel materials shall comply with the following specifications:
Angles. Plates. Bars. Channels ASTM A36 U.N.O.
- C. Field connections shall be bolted, except as otherwise shown or noted.
- D. All welding shall conform to the latest specification of the American Welding Society. All welded connections shall be made with AWS A5.1 or A5.5 E70 XX electrode.
- E. Anchor bolts and misc embedded steel ----- ASTM A36. Anchor bolts which are submerged, located above a liquid surface, or are in a corrosive atmosphere ----- 361 SS.
- F. All equipment anchor bolt dimensions and locations shall be verified from certified vendor drawings, prior to construction.
- G. All embedded items and steel structures exposed to weather to be hot-dip galvanized.

DESIGN CRITERIA:

- A. Dead load materials assumed in the design are shown on the mechanical and structural drawings.
- B. Design code is IBC 2021
- C. Live Loads:
- | | | |
|--------------------------|--|-----------------------|
| Location | Uniform Load | Concentrated Load |
| Operation Area | | |
| Stairs and Exits | 100 PSF Reducible | 300 Lbs |
| Handrails and Guardrails | 50 PSF or 200 Lbs applied at top rail in any direction. 50 Lbs in any direction applied at intermediate rails. | |
| Grab Bars | | 250 Lbs any Direction |
- D. Wind Loads:
- | | |
|-------------------------|----------------------|
| Basic Wind Speed | 137 MPH (3-Sec Gust) |
| Risk Category | III |
| Exposure Category | C |
| Internal Pressure Coeff | +/- 0.18 |
| Components & Cladding | Not Applicable |
- E. Seismic Load:
- | | |
|--|---------------|
| Seismic Importance Factor | 1.25 |
| Spectral Responce Acceleration (Ss / S1) | 0.082 / 0.044 |
| Site Class | D |
| Spectral Responce Coeff. (Sds / Sd1) | 0.072 / 0.066 |
| Seismic Design Category | A |
- F. Handrails, guardrails and grab bars (including attachment to structure) shall be designed by the fabricator for the loads indicated in the referenced building code. Shop drawings shall be sealed by a professional engineer in the state of Texas, representing the fabricator. All handrails are to be aluminum tube sch 10, with cast aluminum Slip-Joint Type fillings by J.C. Denier Co., Inc. A 4"x¼" aluminum plate with mill finish shall be used as kick plate.
- G. Stairs shall be designed by the steel fabricator for code required loads. Shop drawings shall be sealed by a professional engineer in the state of where the project is located, representing the fabricator.

TENSION DEVELOPMENT LENGTHS AND
TENSION LAP SPLICE LENGTHS
GRADE 60 (UNCOATED) REINFORCEMENT

BAR SIZE	NORMAL WEIGHT					
	F'c = 3000		F'c = 4000		F'c = 5000	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	1.0Ld	1.3Ld	1.0Ld	1.3Ld	1.0Ld	1.3Ld
#4	17	22	15	19	13	17
#5	22	29	19	25	17	23
#6	28	36	24	31	22	28
#7	33	43	29	37	26	34
#8	48	63	42	54	38	49
#9	55	72	48	62	43	56
#10	62	81	54	70	48	63
#11	70	91	61	79	54	71
#11	78	101	67	87	60	78

- Notes:
- All lengths shown in the table are in inches.
 - Ld = Tension development length.
 - The table to the left is valid for
 - Beams and columns where concrete cover > = db, c/c bar spacing > = 2db, and with stirrups or ties throughout Ld are not less than the code minimum.
 - Other elements such as slabs, walls, etc. where concrete cover > = db, c/c bar spacing > = 3db.
 - For top bars, multiply the splice lengths by 1.30. Top bars require a minimum of 12" of fresh concrete below bar.
 - When bars of a different size are lap spliced in tension, splice length shall be the larger of Ld of the larger bar and compression lap splice length of smaller bar.
 - Bars spliced by non-contact lap spliced shall not be spaced transversely farther apart than the smaller of one-fifth the required lap splice length and 6".

DEVELOPMENT LENGTHS OF STANDARD HOOKS
IN TENSION GRADE 60 (UNCOATED) REINFORCEMENT

BAR SIZE	NORMAL WEIGHT					
	F'c = 3000		F'c = 4000		F'c = 5000	
	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb
#3	9	6	8	6	7	6
#4	11	8	10	7	9	6
#5	14	10	12	9	11	8
#6	17	12	15	10	13	9
#7	20	14	17	12	15	11
#8	22	16	19	14	17	12
#9	25	18	22	15	20	14
#10	28	20	25	17	22	16
#11	31	22	27	19	24	17

- Notes:
- All lengths shown in the table are in inches.
 - Lhb = Tension development length.
 - Ldh = Lhb, unless conditions of Item 4 are satisfied.
 - Ldh = 0.7 Lhb, when side cover normal to plane of hook is not less than 2 ½ inches and for 90° hook, cover on bar extension beyond hook shall not be less than 2 inches.
 - Hooks shall not be considered effective in developing bars in compression.



NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

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Engineer: AHMAD DANESHVAR, P.E.

P.E. Serial No.: 132679

Date: JANUARY 2026



Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY: RMERHI
JOB NO: 00050-0099-01	DWG BY: SFUENTES

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

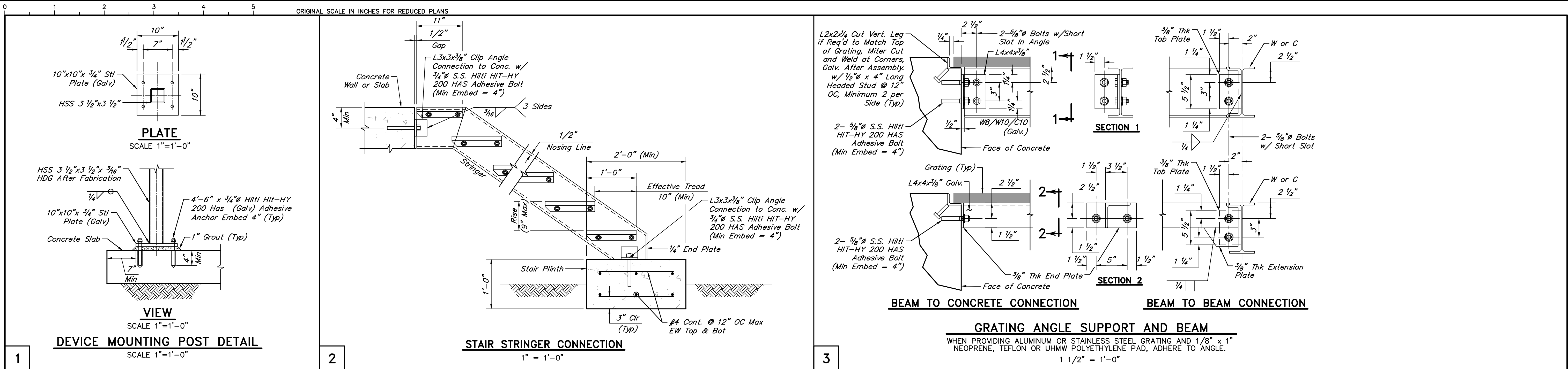
STRUCTURAL NOTES
& DETAILS SHEET 1 OF 4

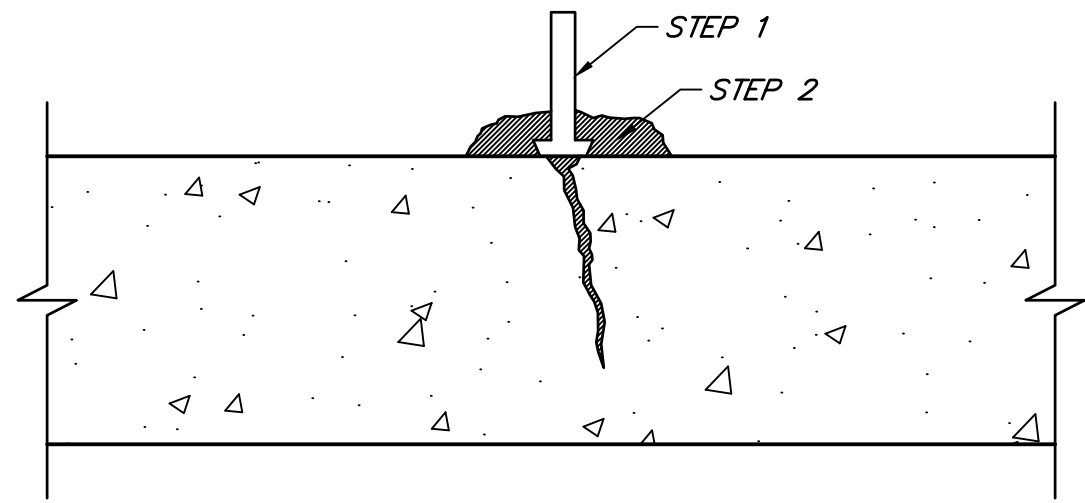
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

CATEGORY NO. 0-S-1 SHEET NO. # OF XXX

FOR CITY OF HOUSTON USE ONLY



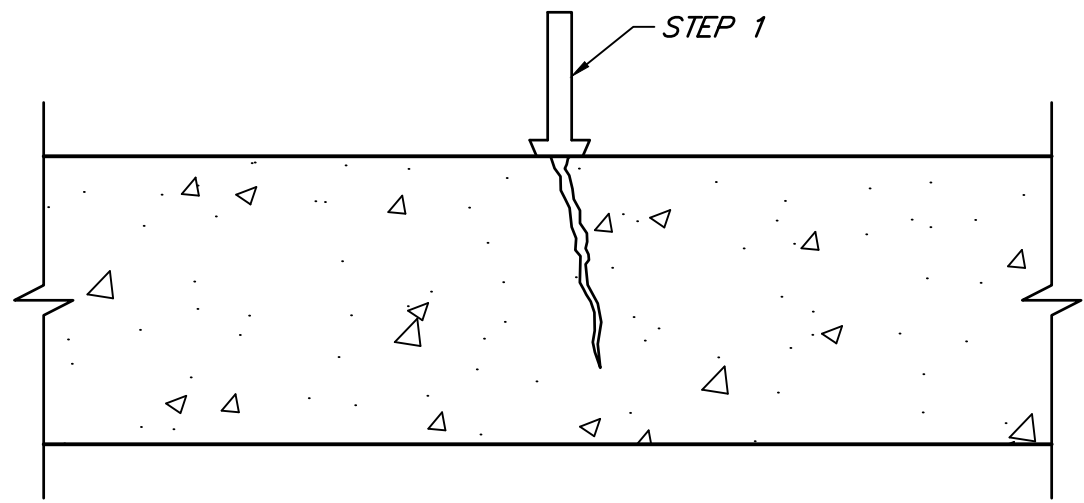


1. CLEAN THE CONCRETE SURFACE AND SET PORTING DEVICES OVER CRACKS.
2. PLACE MIXED SIKADUR 31, HI-MOD GEL EPOXY RESIN ADHESIVE, OR APPROVED EQUAL, OVER CRACKS AND AROUND EACH INJECTION PORT A MIN. OF 1" WIDE BY ¼" THICK.
3. ALLOW SUFFICIENT TIME FOR EPOXY RESIN ADHESIVE CAP SEAL TO SET BEFORE INJECTING.
4. WHEN THE CAP SEAL HAS CURED, INJECT SIKADUR 35, HI-MOD LV, OR APPROVED EQUAL, WITH STEADY PRESSURE. PER MANUFACTURER INSTRUCTION.
5. USE AUTOMATED INJECTION EQUIPMENT OR MANUAL METHOD.

CRACK NO. 1 FILLER/CAP SEAL

⊙ CRACKS > 1/8"

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



1. CLEAN THE CONCRETE SURFACE AND SET PORTING DEVICES OVER CRACKS. PER MANUFACTURER INSTRUCTION.
2. INJECT SIKAFIX HH+HYDROPHOBIC URETHANE OR APPROVED EQUAL.
3. USE AUTOMATED INJECTION EQUIPMENT OR MANUAL METHOD.
4. BEGIN INJECTING AT THE BOTTOM OF THE CRACK AND WORK VERTICALLY.

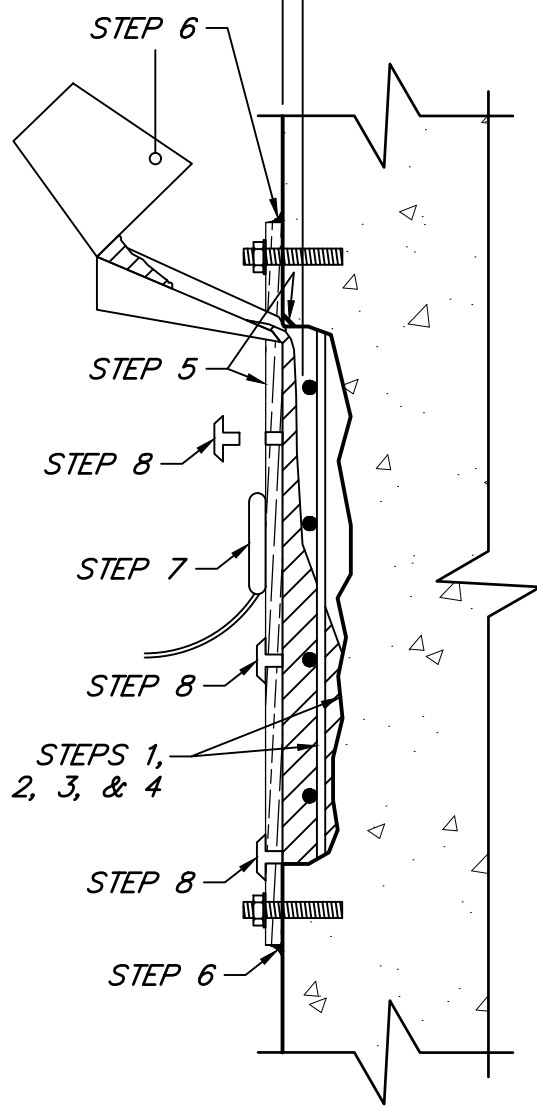
CRACK NO. 2 FILLER

⊙ HAIRLINE CRACKS

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

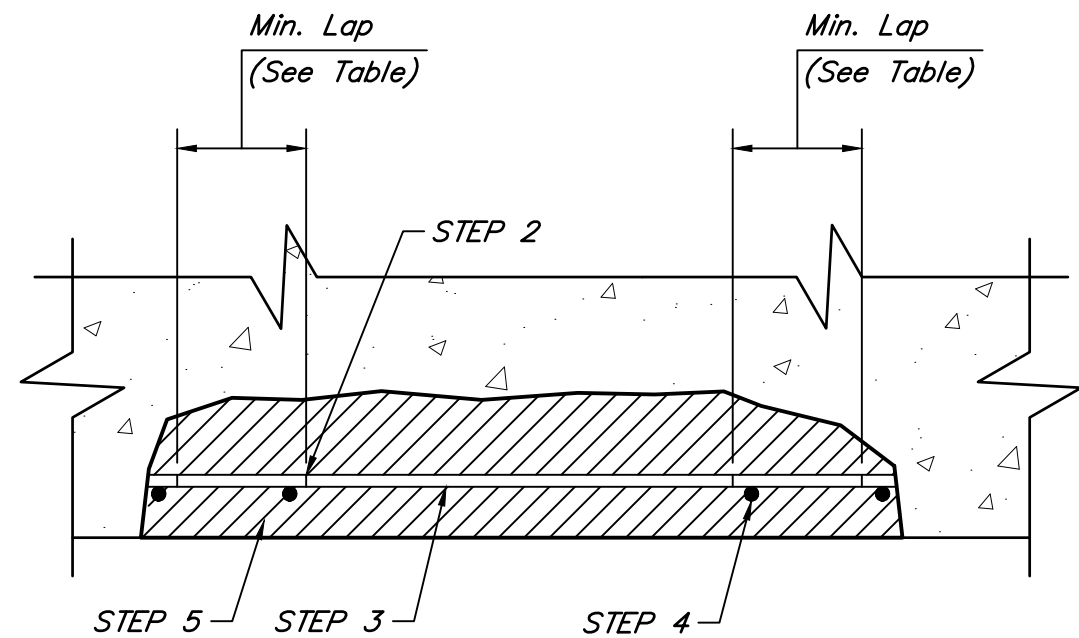
1. BREAK-OUT CRACKED OR SPALLED CONCRETE AND REMOVE ANY FORM OR OTHER DEBRIS UNTIL SOLID CONCRETE IS REACHED.
2. REPLACE STEEL REINFORCEMENT AS DIRECTED BY ENGINEER. FOR REINFORCING REPLACEMENT, REFER TO DETERIORATED REINFORCING REPLACEMENT DETAIL.
3. PREPARE SURFACE ACCORDING TO THE SIKACRETE 211 SPECIFICATIONS AND/OR MANUFACTURER'S RECOMMENDATIONS.
4. PRE-WET SURFACE TO SSD. APPLY BOND AGENT SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, TO REINFORCING STEEL.
5. SET FORM AND CHIP SPOT FOR POUR BOX. APPLY RELEASE AGENT TO FORM, OR USE PLASTIC LINED PLYWOOD.
6. RUN BEAD OF SIKAFLEX 1A, OR APPROVED EQUAL, AROUND FORM EDGE, LET CURE, THEN ANCHOR FORM. FILL WITH WATER TO CHECK FOR WATER TIGHTNESS. LET DRAIN TO NO FREE STANDING WATER.
7. VIBRATE FORM WHILE POURING SIKACRETE 211, OR APPROVED EQUAL.
8. VENT TO BE CAPPED WHEN STEADY FLOW IS EVIDENT.
9. STRIP FORM WHEN APPROPRIATE.
10. DRY PACK ANCHOR HOLES WITH MORTAR.

Provide Min Cover of 3" for Bottom of Beams, 1 1/2" for Sides of Beams, and 1 1/2" for Bottom of Slabs



FORM AND POUR (VERTICAL) CONCRETE REPAIR

NOT TO SCALE



1. SHORE STRUCTURE AS REQUIRED PRIOR TO MODIFICATIONS OF STRUCTURAL CONNECTIONS.
2. EXPOSED REINFORCING STEEL SHOULD BE MECHANICALLY CLEANED OR SAND BLASTED TO REMOVE ALL TRACES OF RUST.
3. DETERMINE STEEL SECTION LOSS FOR EACH EXPOSED REINFORCING BAR. REPLACE BARS WHERE MORE THAN 25% AREA LOSS HAS OCCURRED, AS DIRECTED BY THE ENGINEER.
4. SPLICE EXISTING BAR W/ A NEW BAR (ASTM A615 GRADE 60) OF STEEL CROSS SECTIONAL AREA EQUIVALENT TO 68% OF THE CROSS SECTIONAL AREA OF THE EXISTING BAR.
5. COMPLETE CONCRETE REPAIR. (SEE DETAIL)

DETERIORATED REINFORCING REPLACEMENT

NOT TO SCALE

BAR SIZE	DIAMETER (IN.)	CROSS-SECTIONAL AREA (IN ²)	MIN. LAP (IN.)
#3	0.375	0.11	12
#4	0.500	0.20	15
#5	0.625	0.31	19
#6	0.750	0.44	23
#7	0.875	0.60	33
#8	1.000	0.79	37
#9	1.128	1.00	42
#10	1.270	1.27	47
#11	1.410	1.56	52

NOTE:

LAP LENGTHS SHOWN ARE FOR COVERS OF AT LEAST 1.0 BAR DIAMETER AND HORIZONTAL C.C. SPACING OF AT LEAST 2.0 BAR DIAMETERS. IF THE LATTER CANNOT BE ACHIEVED ON A BEAM, CRACK FILLER/CAP SEAL DETAIL MAY BE USED. OTHERWISE, IF AN ADEQUATE SPLICE LENGTH CANNOT BE ACHIEVED, USE AN APPROVED MECHANICAL OR WELDED SPLICE CAPABLE OF DEVELOPING AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. ALL WELDING SHALL CONFORM TO "STRUCTURAL WELDING CODE - REINFORCING STEEL" (ANSI/AWS D1.4). NEW REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706. IF A CHEMICAL ANALYSIS OF THE EXISTING BARS IS NOT KNOWN OR OBTAINED, THEN THE EXISTING BARS SHOULD BE PREHEATED PER ANSI/AWS D1.4.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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P.E. Serial No.: 132679
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

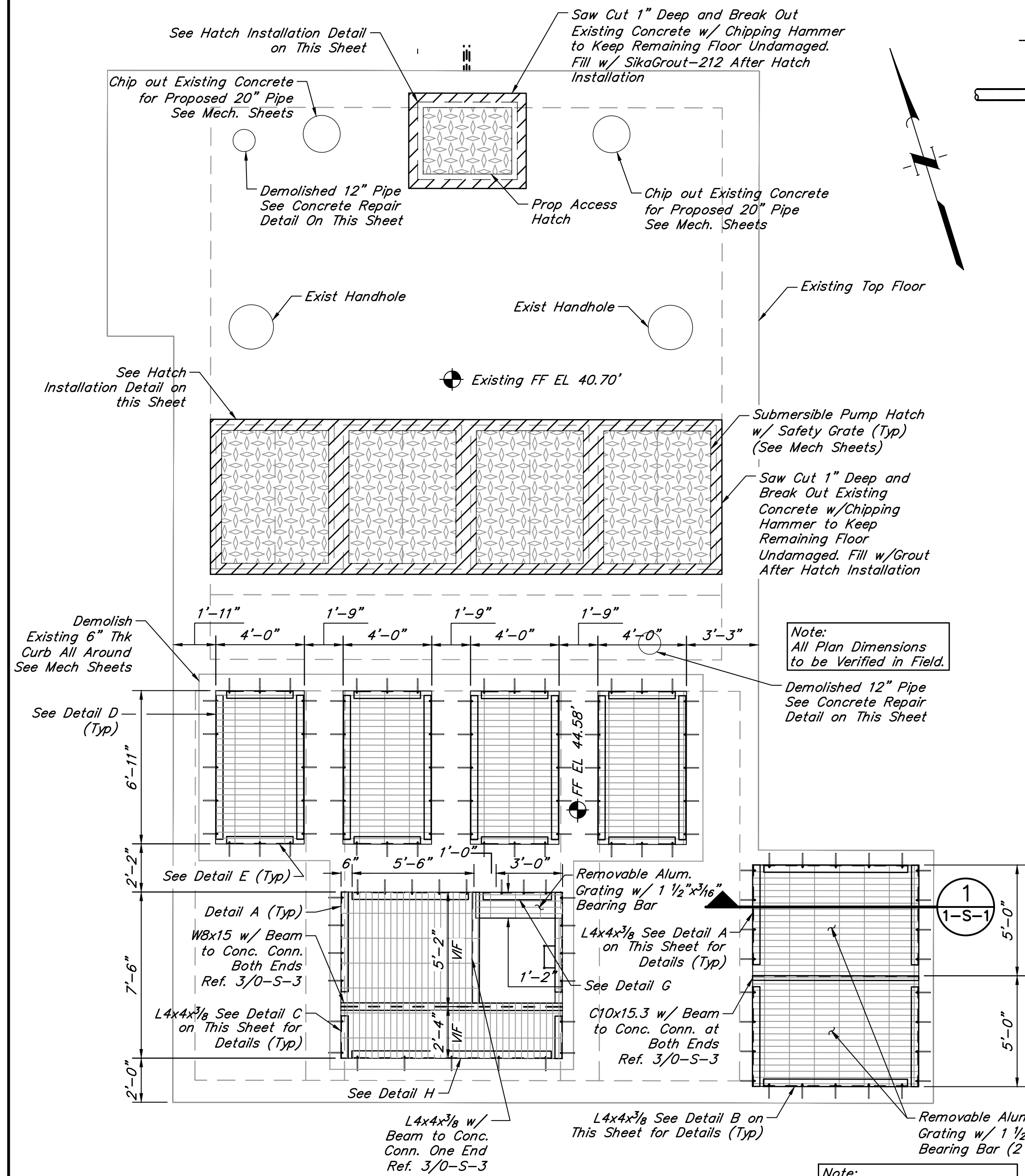
STRUCTURAL DETAILS
SHEET 4 OF 4

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

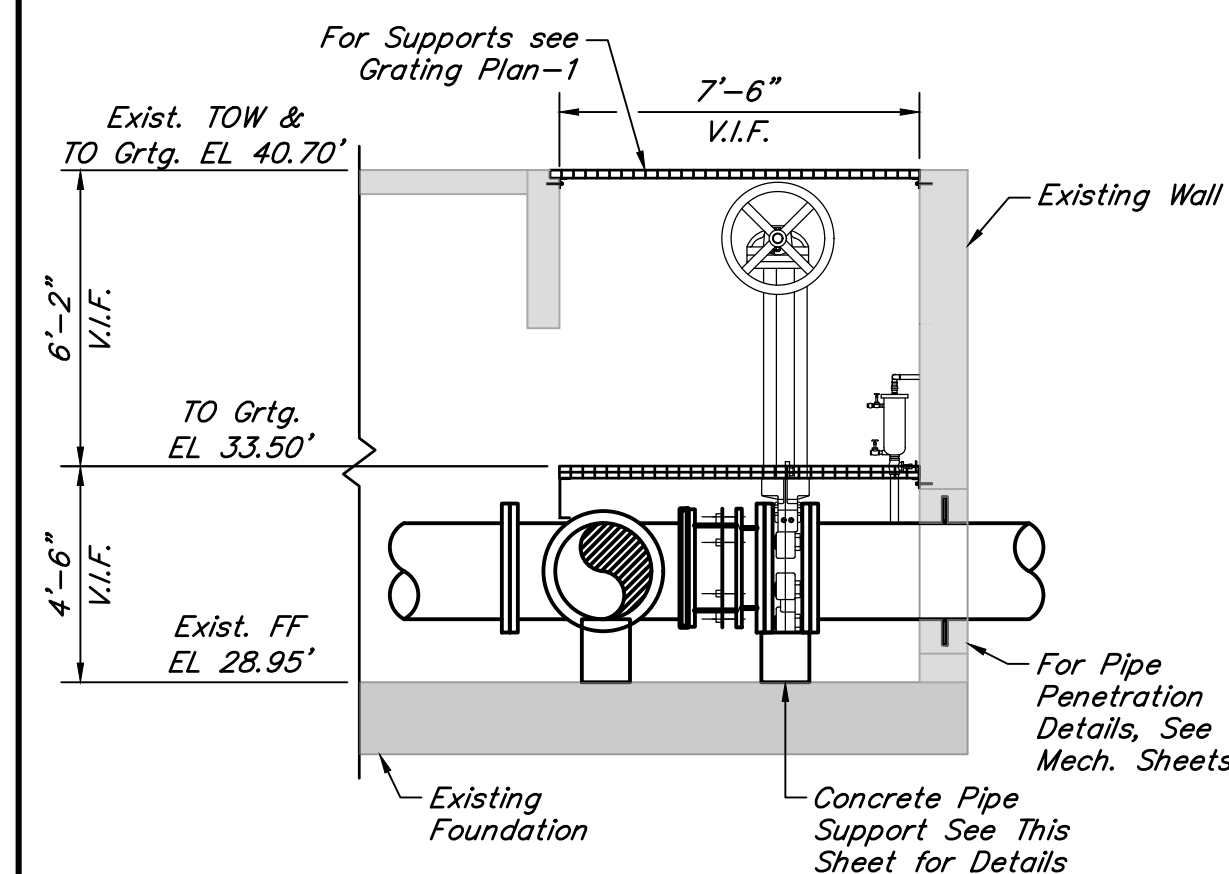
CATEGORY NO. 0-S-4 SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY

0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



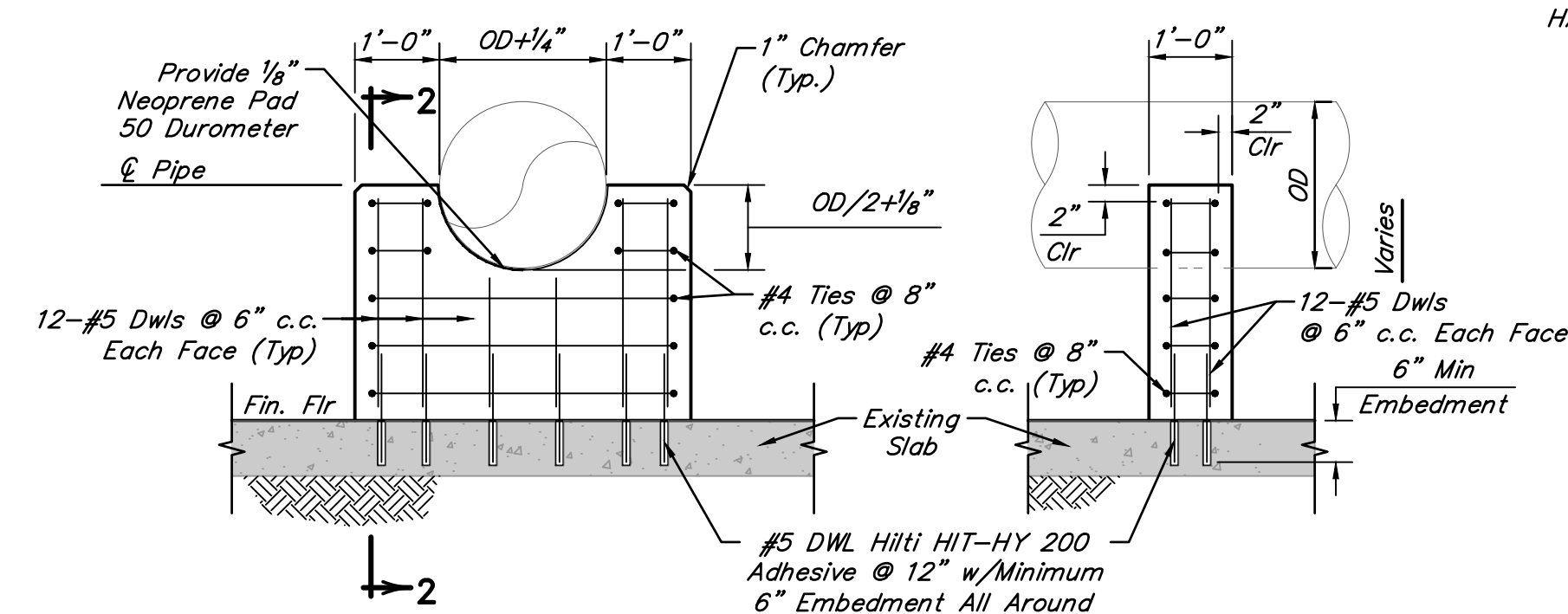
UPPER GRATING PLAN @ TOS 40.70'

SCALE: 1/4" = 1'-0"



SECTION 1-1

SCALE: 1/4" = 1'-0"

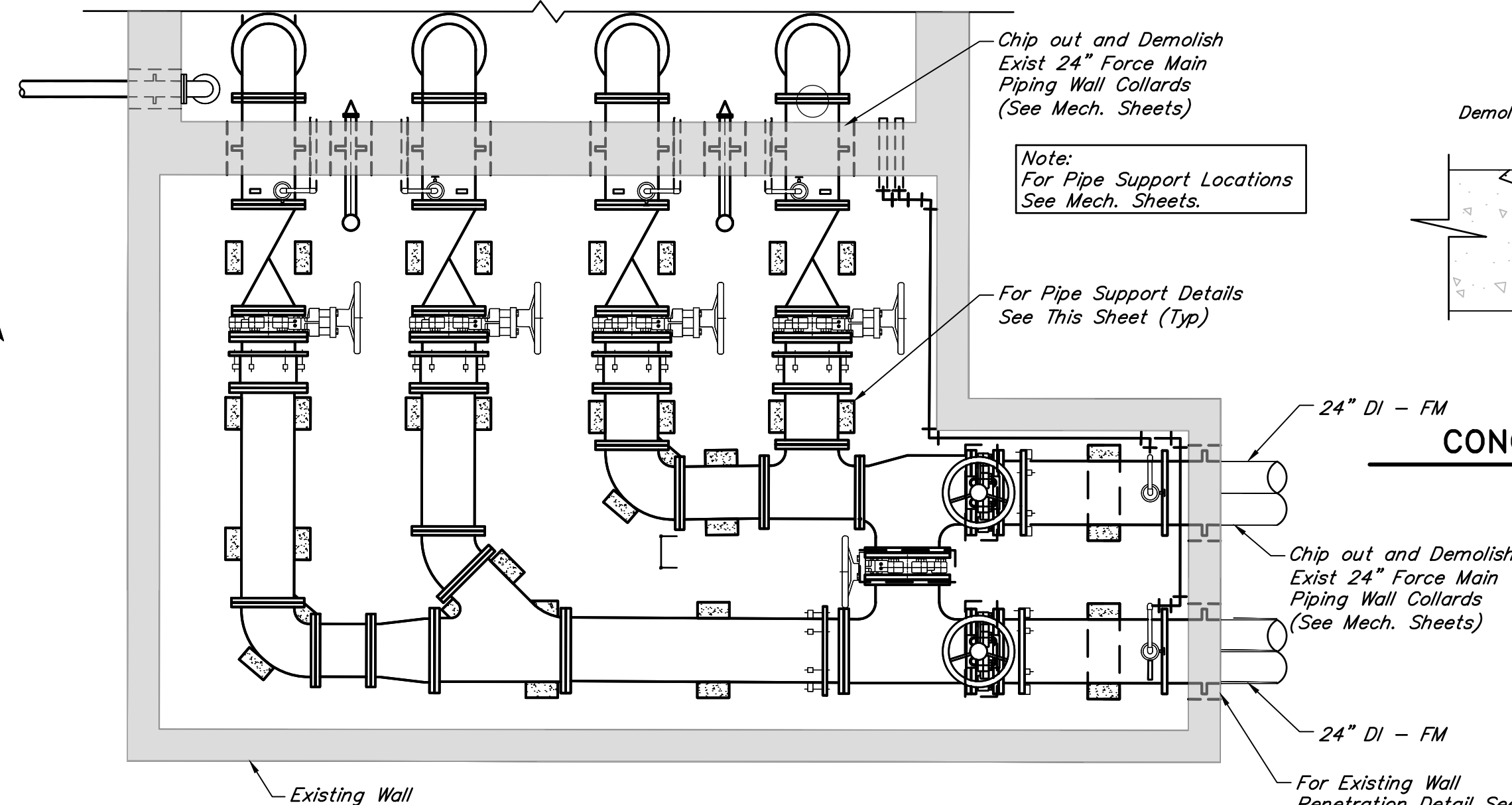


SECTION 2-2

PIPE SUPPORT DETAIL

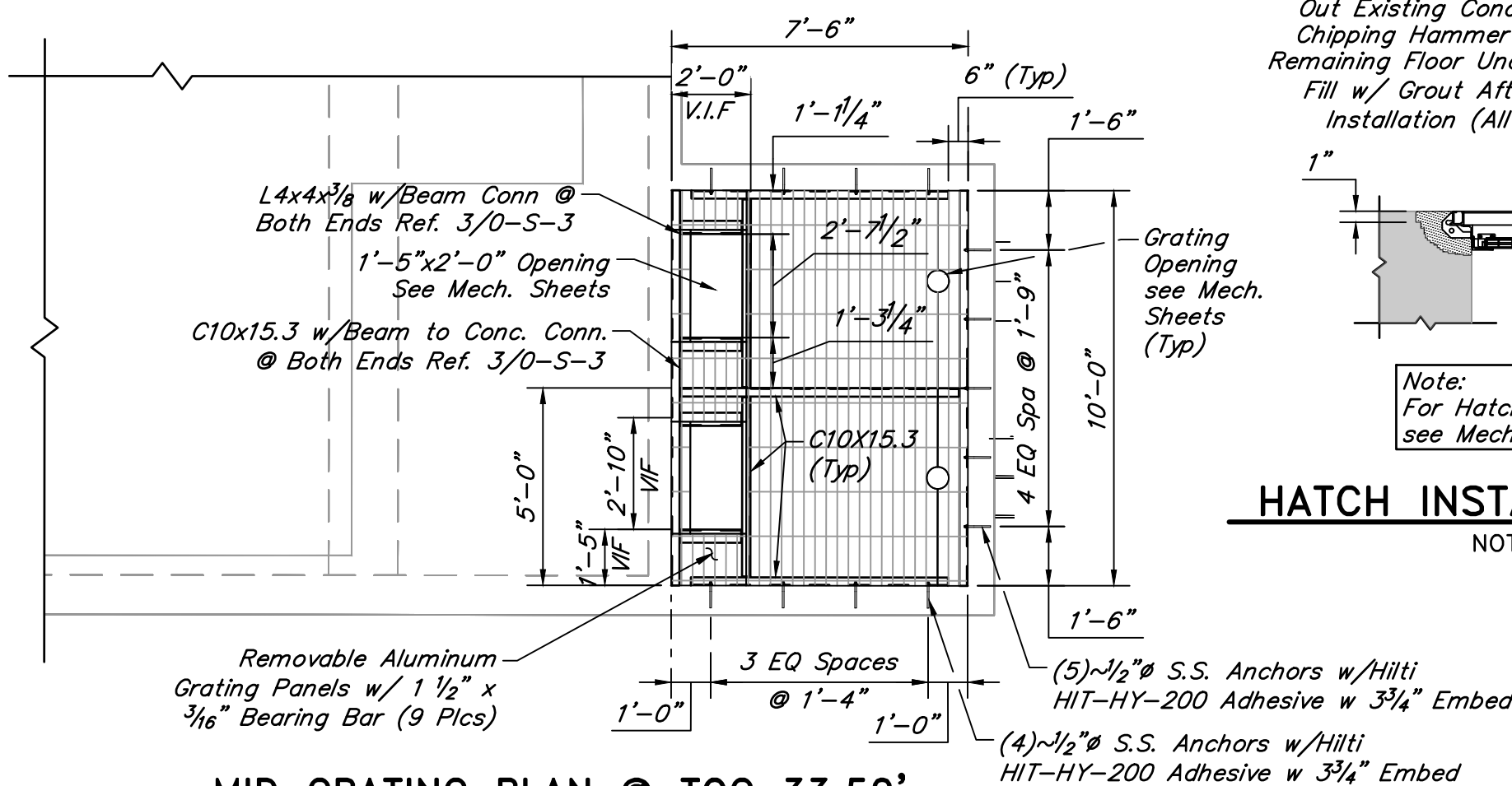
SCALE: 1/2" = 1'-0"

Note: Contractor Shall Adjust Elevation In Accordance With Dimension From Approved Manufacturer Submittal.



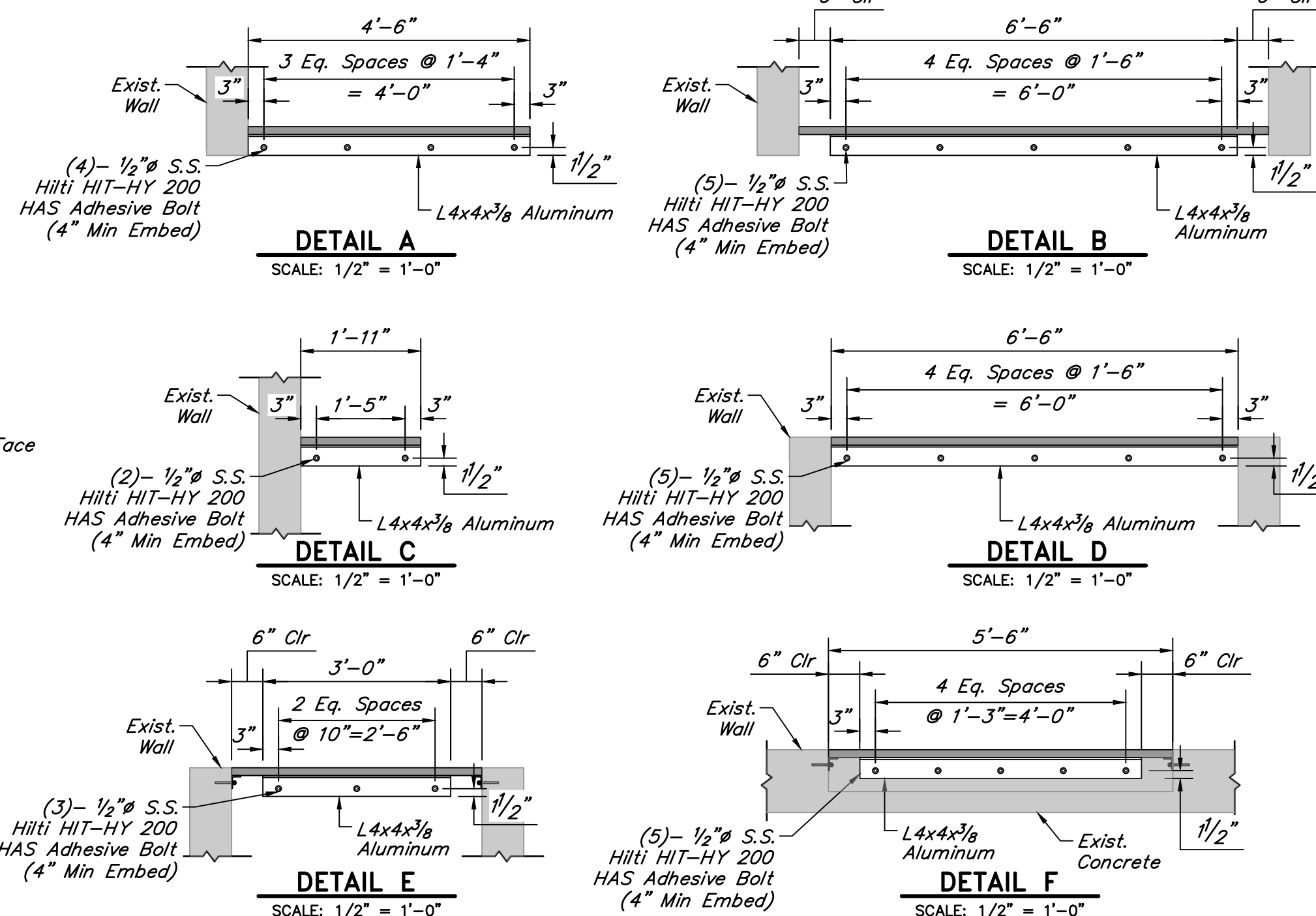
MID LEVEL PLAN @ FF 28.95'

SCALE: 1/4" = 1'-0"



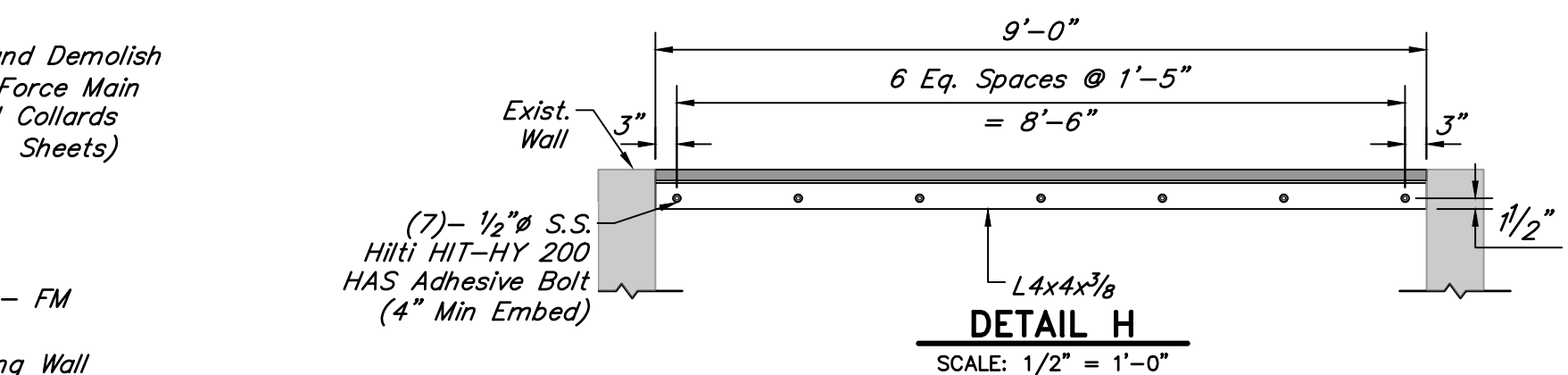
MID GRATING PLAN @ TOG 33.50'

SCALE: 1/4" = 1'-0"



CONCRETE REPAIR DETAIL

NOT TO SCALE



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P.E. Serial No.: 132679

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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

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JOB NO: 00050-0099-01 DWG BY: ASALGADO

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SCOTT STREET No. 1
LIFT STATION REHABILITATION

DRY WEATHER PUMP STATION
IMPROVEMENT PLAN

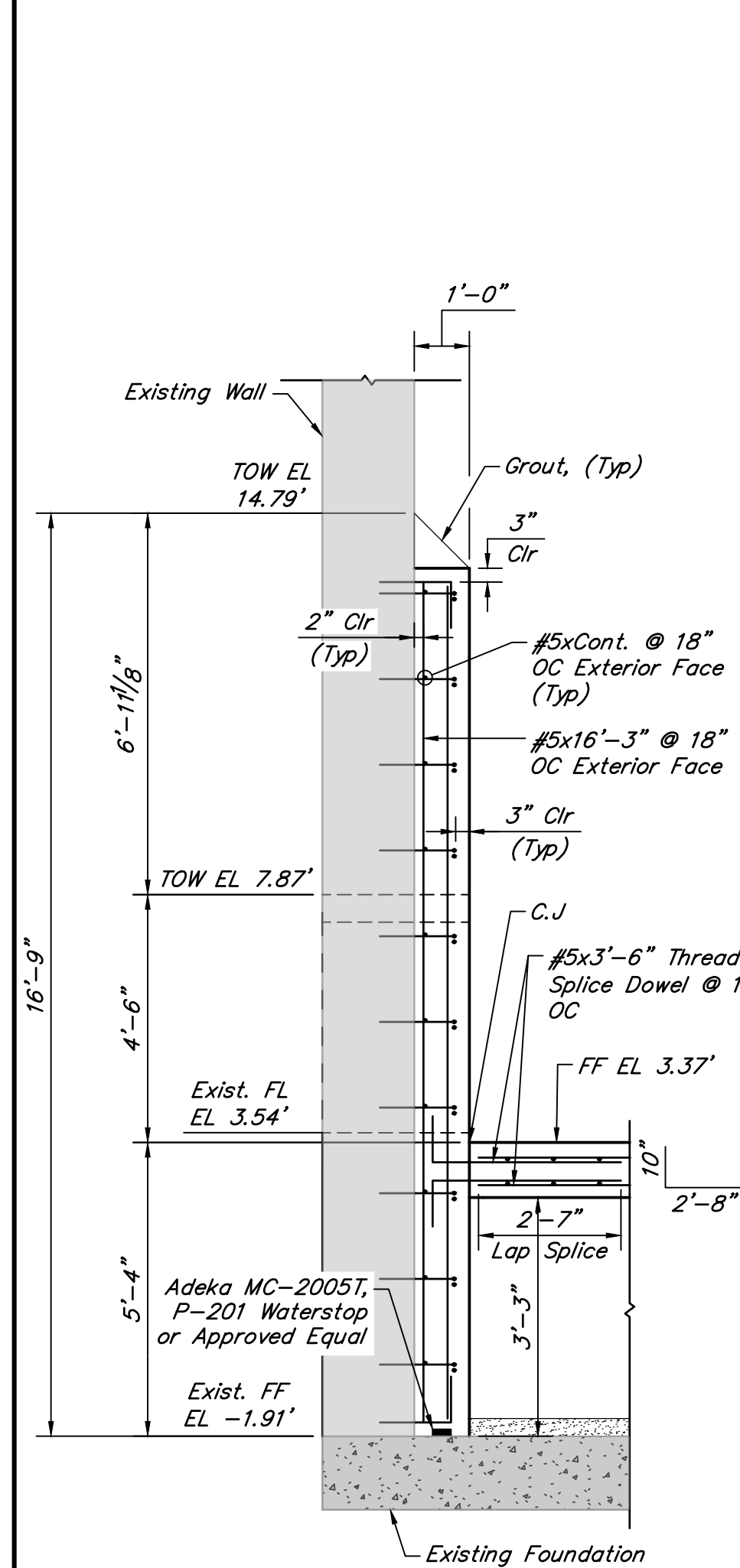
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

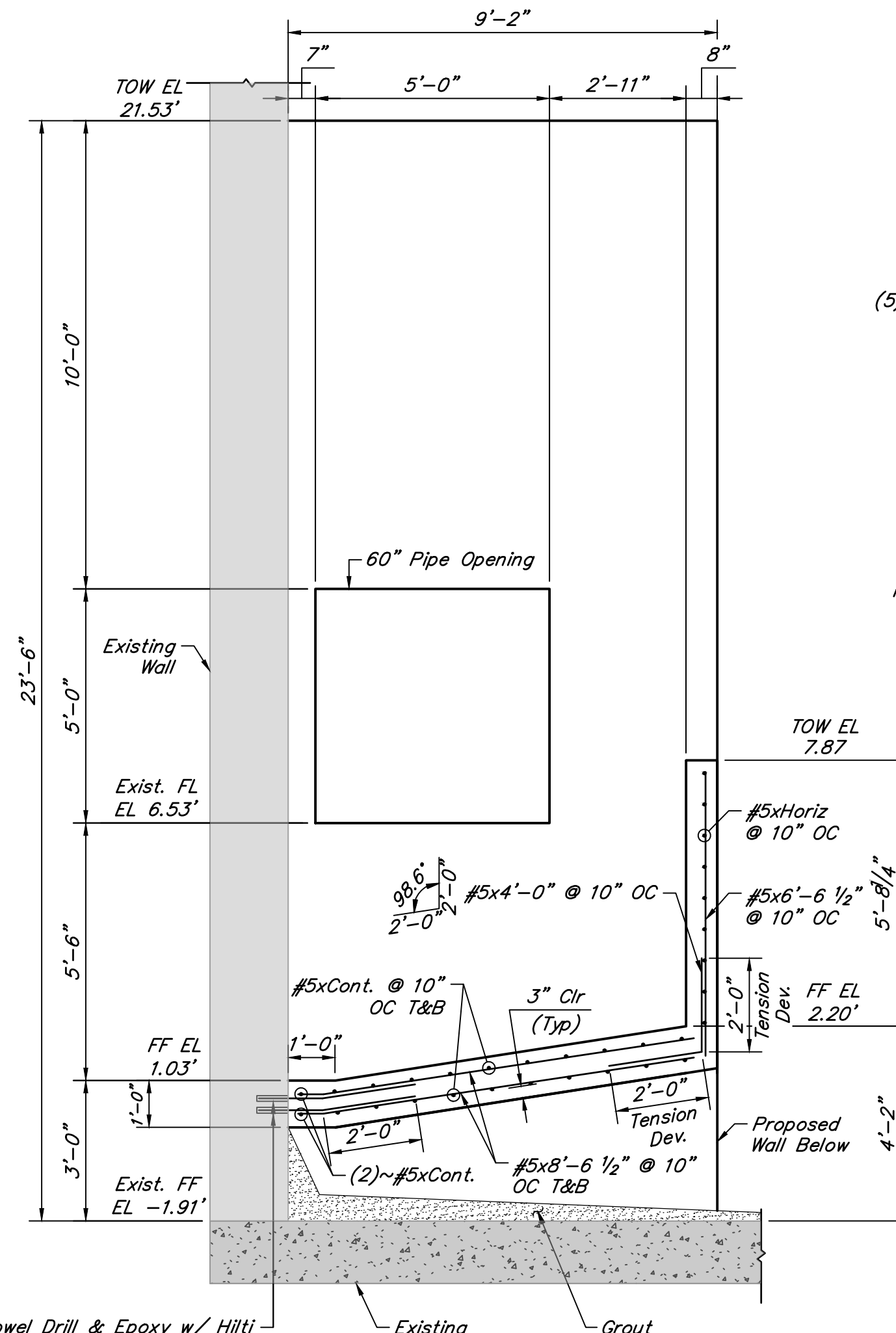
CATEGORY NO. 1-S-1 SHEET NO. # OF XXX

FOR CITY OF HOUSTON USE ONLY

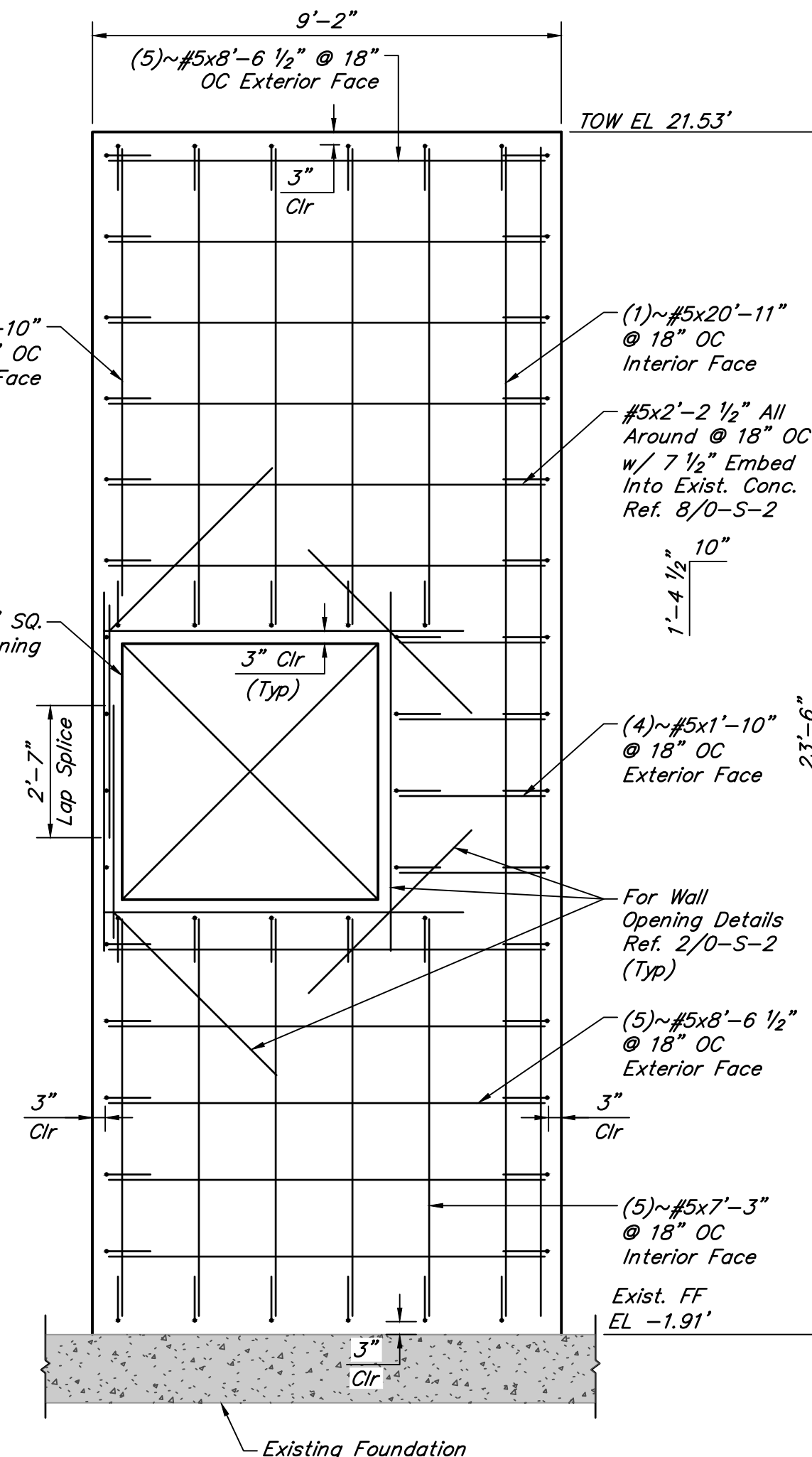
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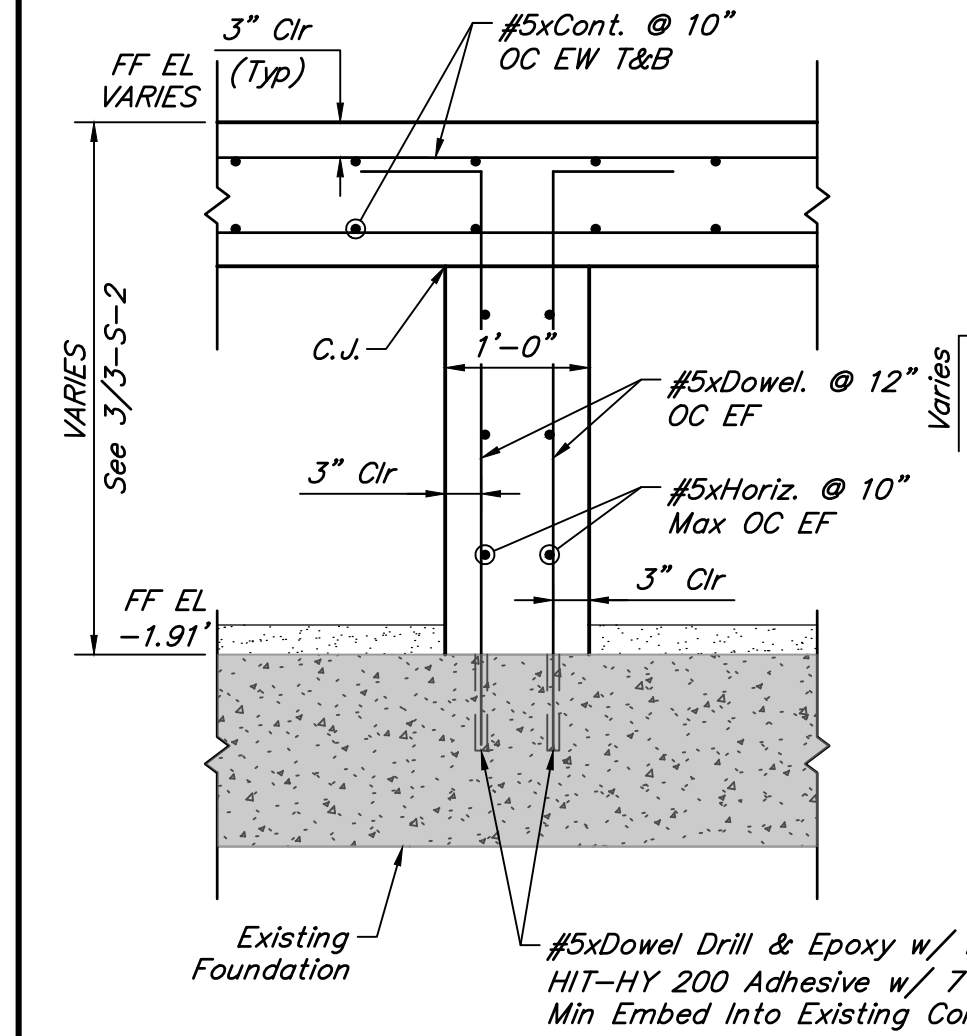
SECTION 1-1
SCALE: 3/8" = 1'-0"



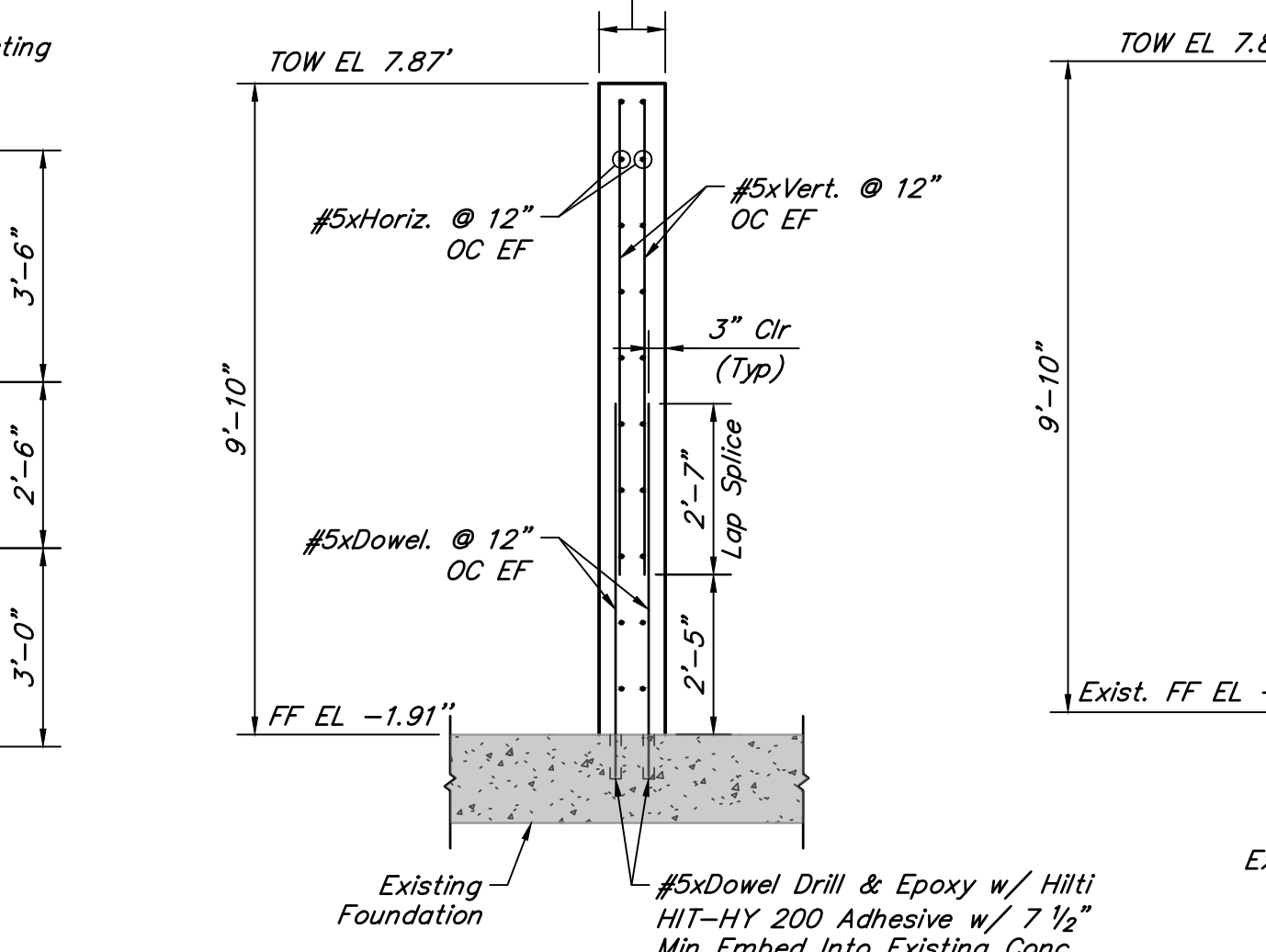
SECTION 2-2
SCALE: 3/8" = 1'-0"



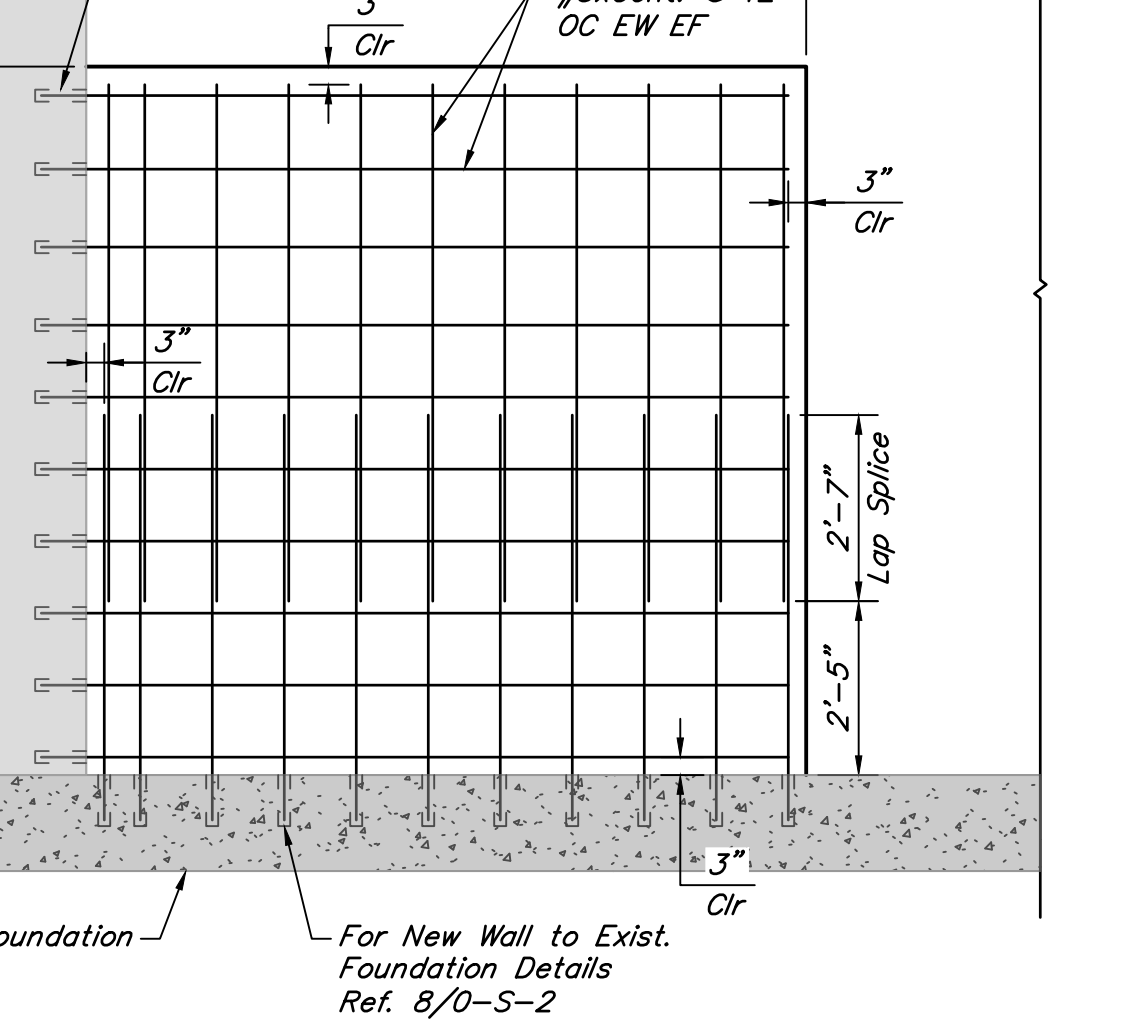
SECTION 3-3
SCALE: 3/4" = 1'-0"



SECTION 4-4
SCALE: 3/8" = 1'-0"



SECTION 5-5
SCALE: 3/8" = 1'-0"



SECTION 6-6
SCALE: 3/8" = 1'-0"

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: AHMAD DANESHVAR, P.E.
P.E. Serial No.: 132679
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CITY OF HOUSTON
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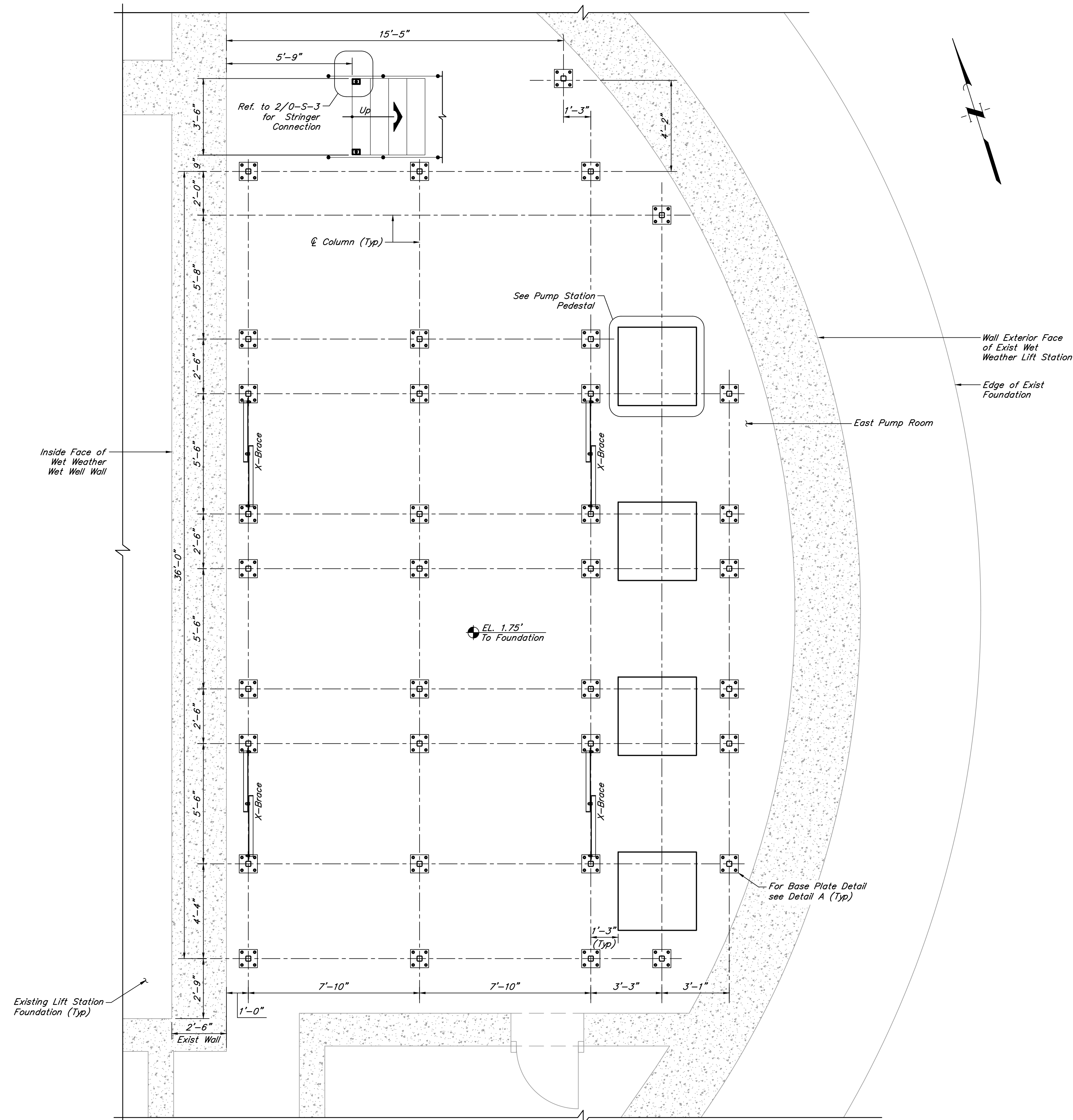
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

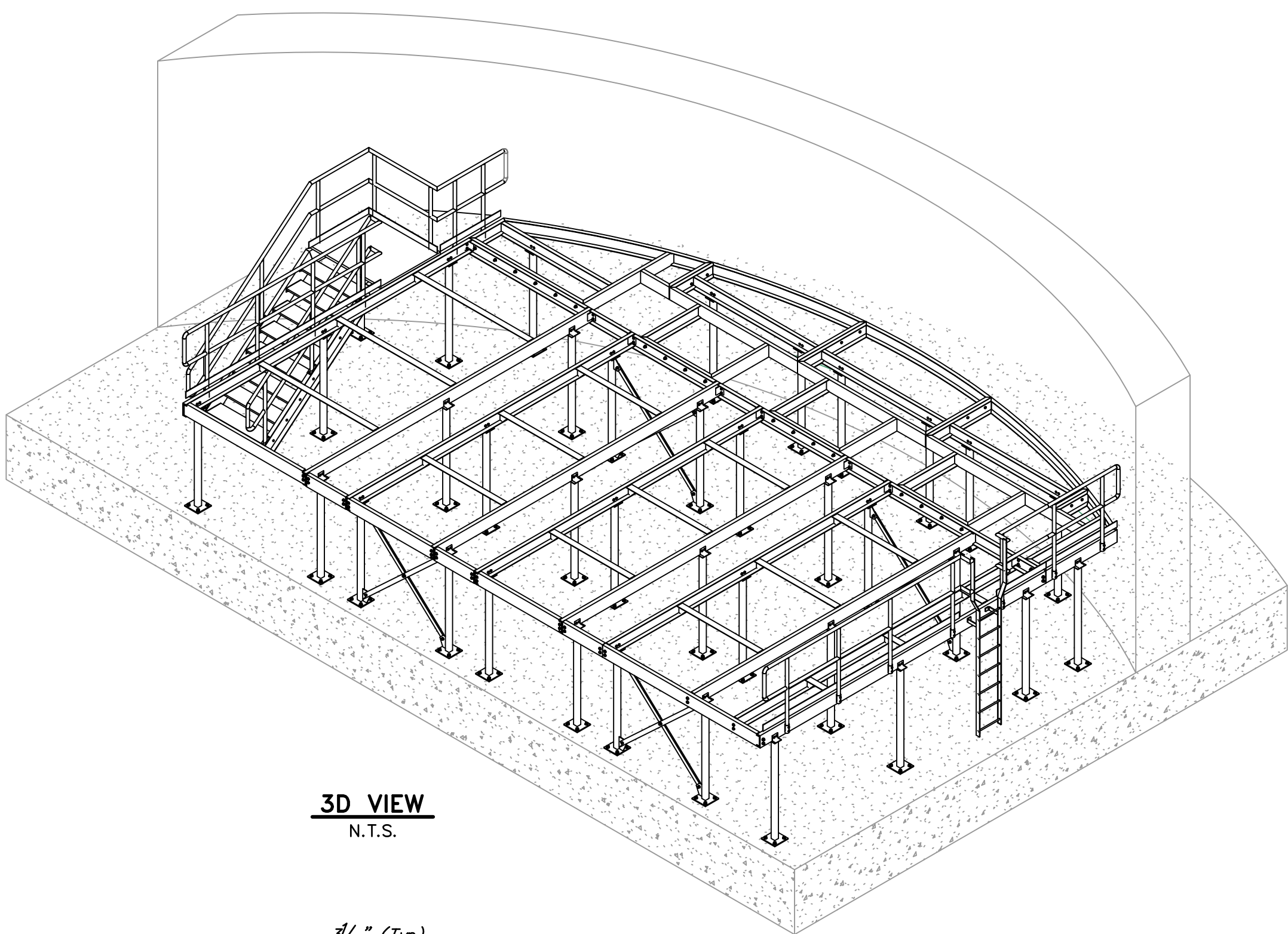
DRY WEATHER PUMP STATION
LOWER LEVEL SECTIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

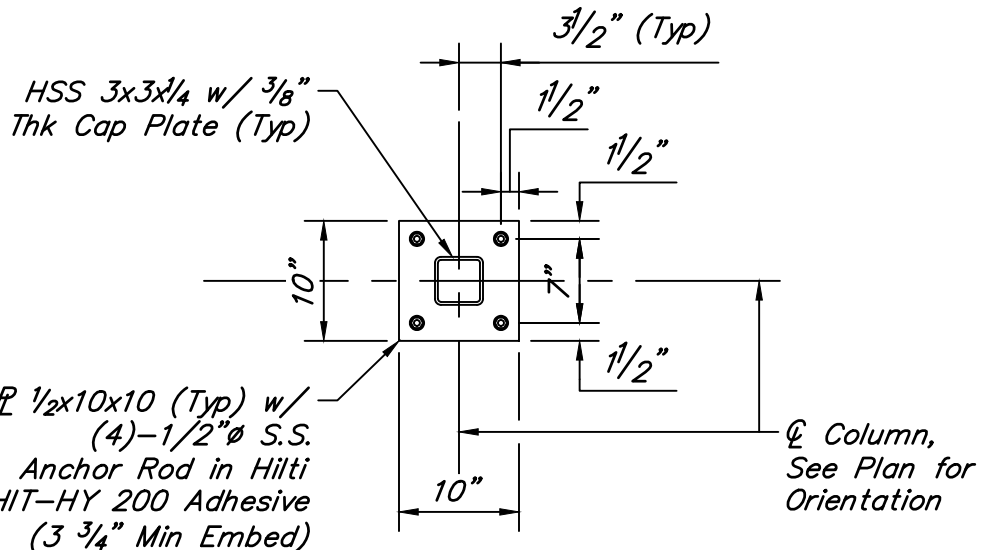
DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX
CATEGORY NO. **1-S-3** SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



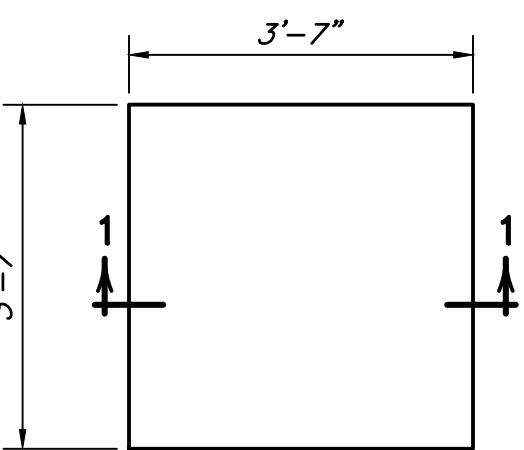
WET WEATHER LIFT STATION WALKWAY FOUNDATION PLAN
(EAST SIDE SHOWN, WEST SIDE WILL BE A MIRRORRED LAYOUT OF THE EAST SIDE)
3/8" = 1'-0"



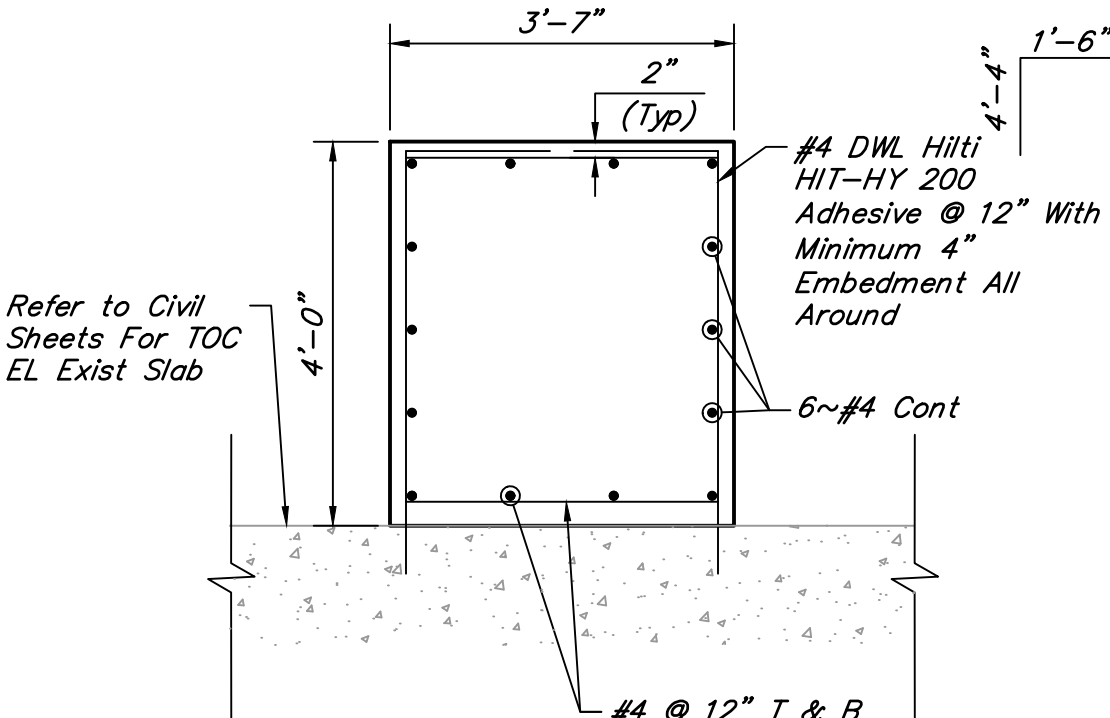
3D VIEW
N.T.S.



DETAIL A
SCALE: 3/4" = 1'-0"



PUMP STATION PEDESTAL PLAN
1/2" = 1'-0"



SECTION 1-1
SCALE: 1" = 1'-0"

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CITY OF HOUSTON
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JOB NO: 00050-0099-01 DWG BY: SFUENTES

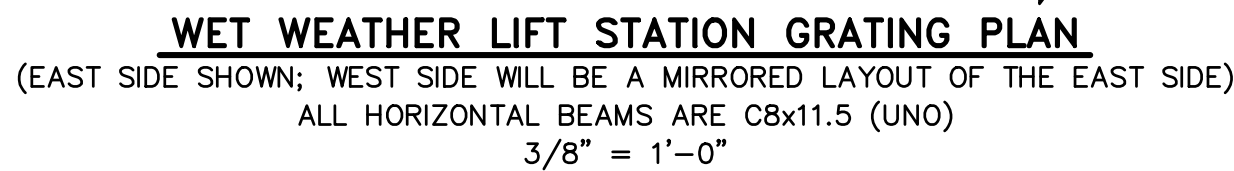
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

**WET WEATHER LIFT STATION
WALKWAY PLATFORM FOUNDATION**

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 3/8"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. **2-S-1** SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



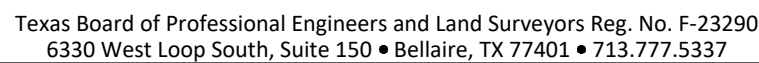
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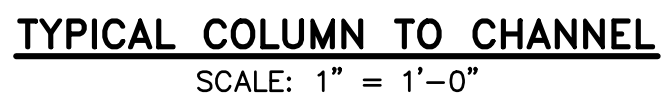
Date: JANUARY 2026

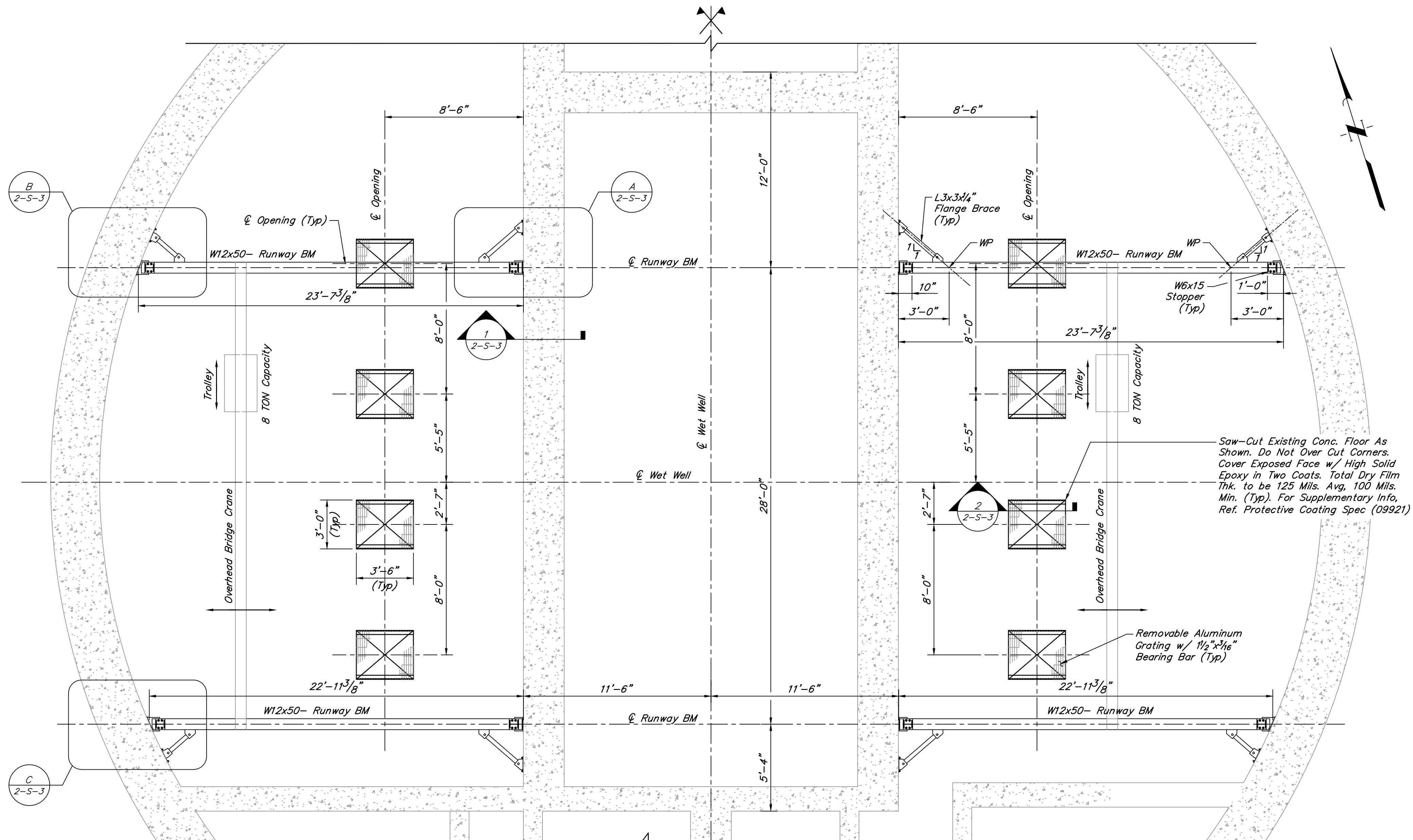


DATE: <u>JANUARY 2026</u>	DGN BY: <u>FFOROUZANNIA</u>
JOB NO: <u>00050-0099-01</u>	DWG BY: <u>SFUENTES</u>

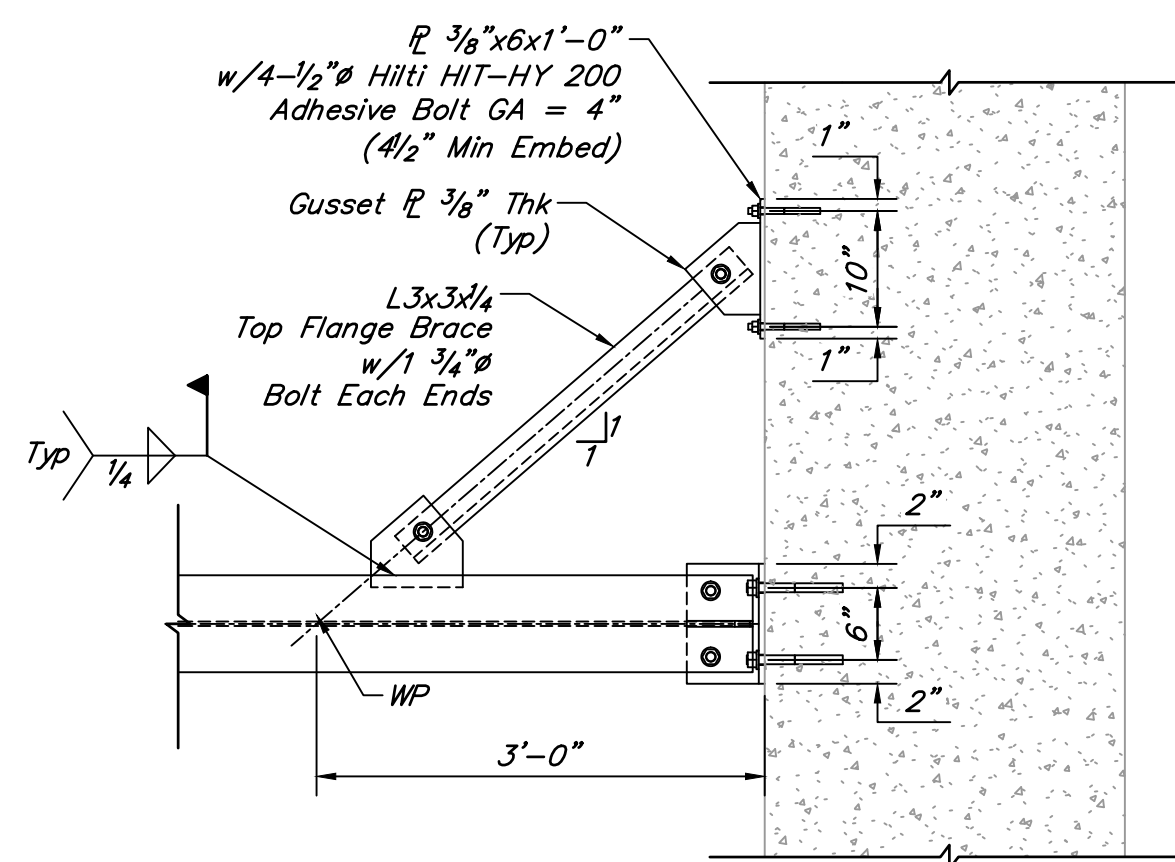
SCOTT STREET No. 1
LIFT STATION REHABILITATION
WET WEATHER LIFT STATION
WALKWAY PLATFORM
GRATING PLAN

DRAWING SCALE AS SHOWN		HORIZ: XXX	VERT: XXX
CATEGORY NO. 2-S-2	SHEET NO. #		OF XXX
FOR CITY OF HOUSTON USE ONLY			

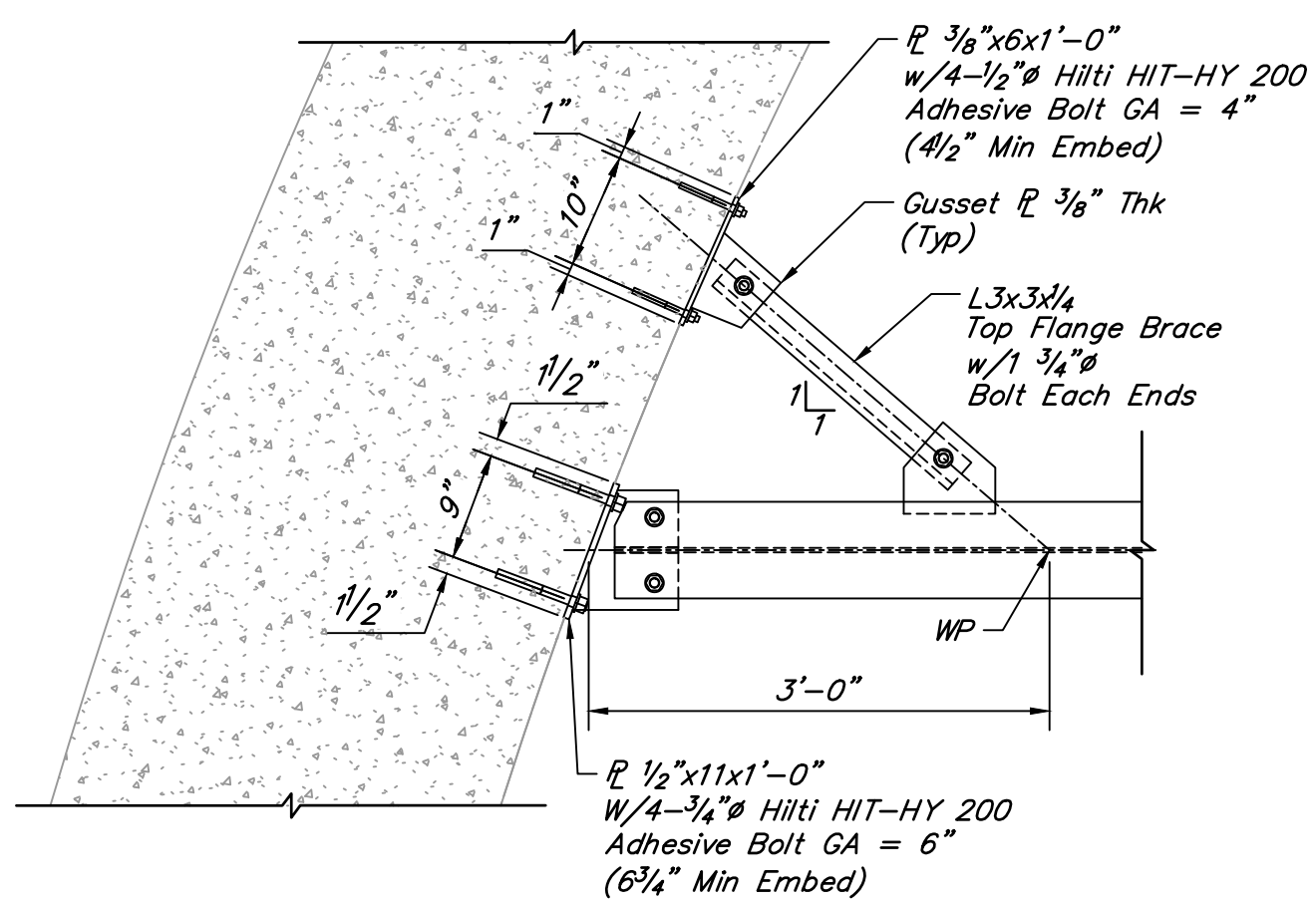




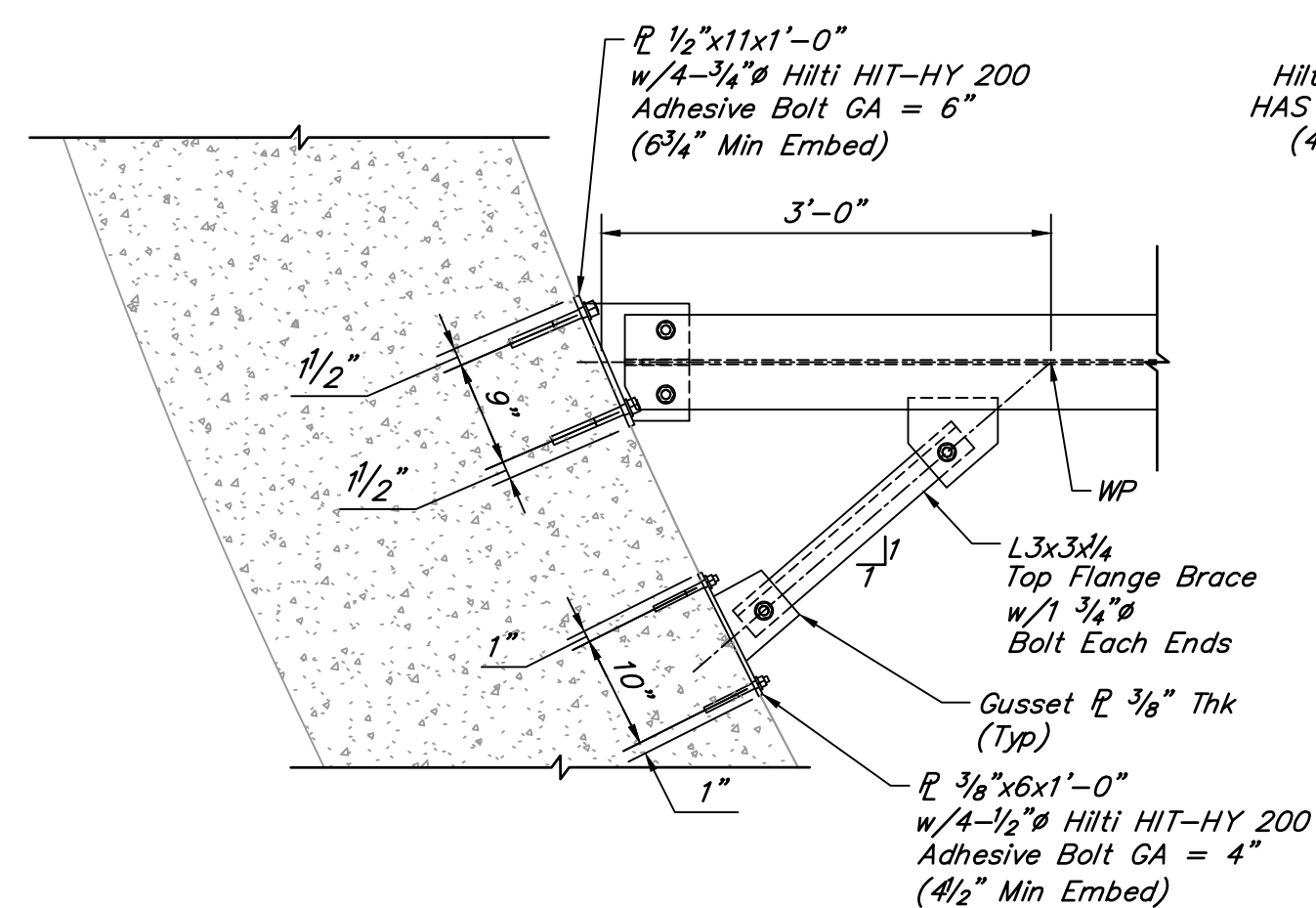
OVERHEAD CRANE-RUNWAY BEAMS
1/4" = 1'-0"



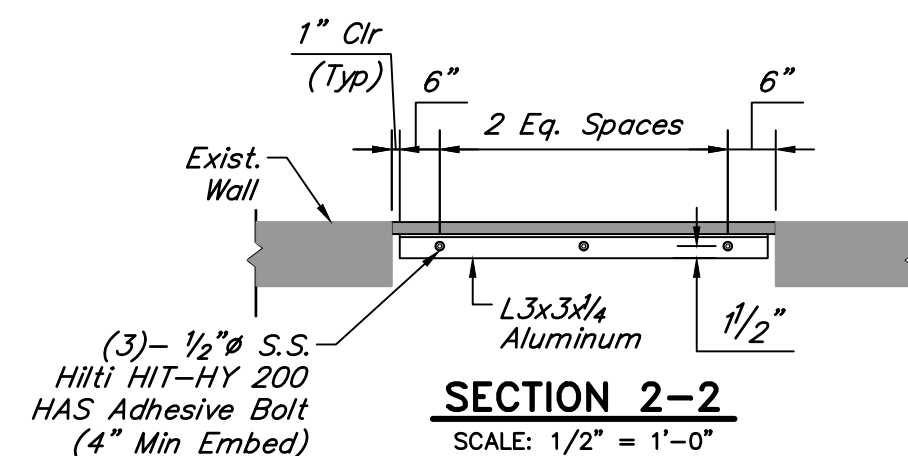
DETAIL A
STOPPER NOT SHOWN FOR CLARITY
SCALE: 3/4" = 1'-0"



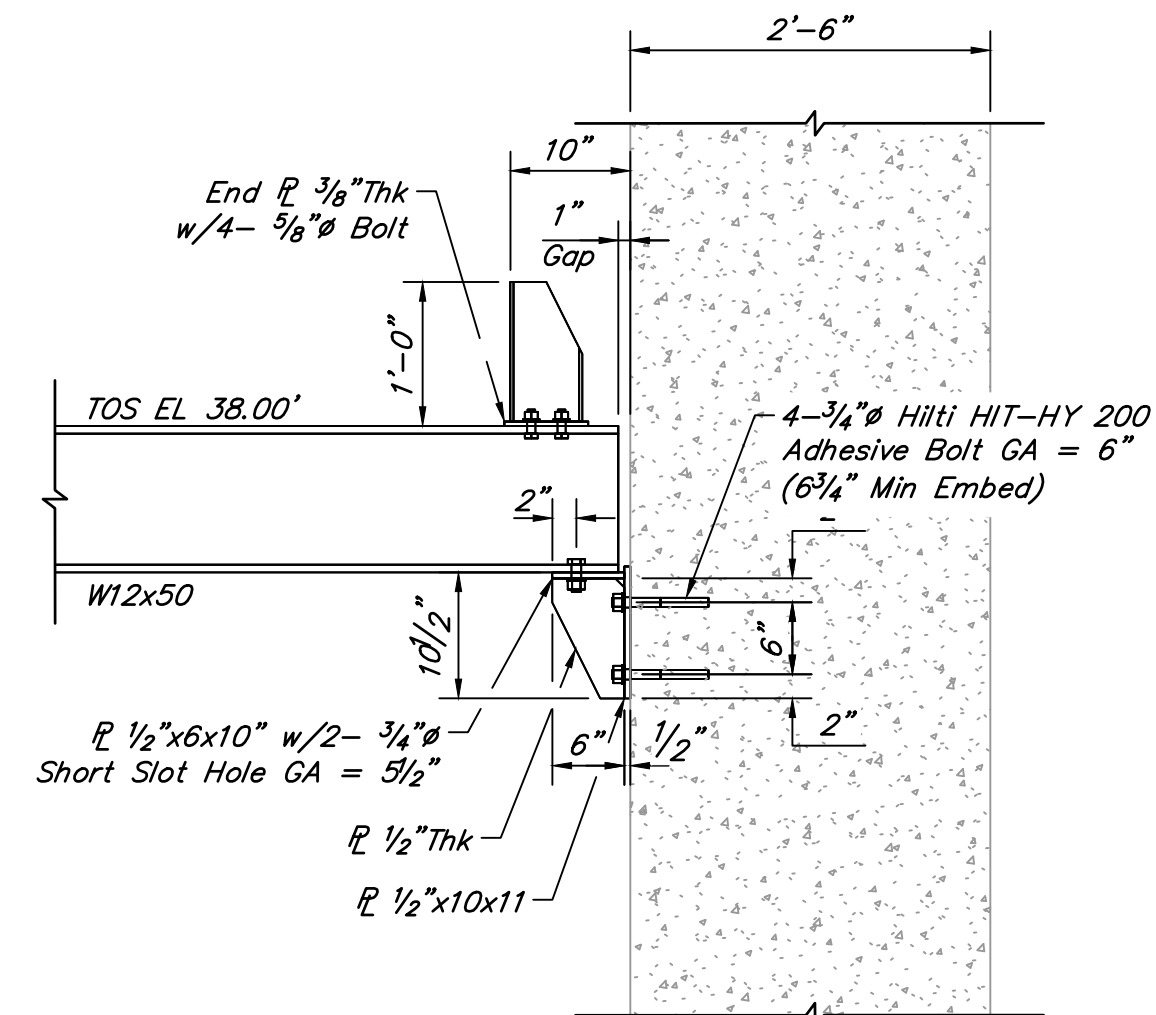
DETAIL B
STOPPER NOT SHOWN FOR CLARITY
SCALE: 3/4" = 1'-0"



DETAIL C
STOPPER NOT SHOWN FOR CLARITY
SCALE: 3/4" = 1'-0"



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



SECTION 1-1
SCALE: 3/4" = 1'-0"

NOTE:

1. All proposed grating and handrails shall be made of aluminum powder-coated dark green.

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LIFT STATION REHABILITATION

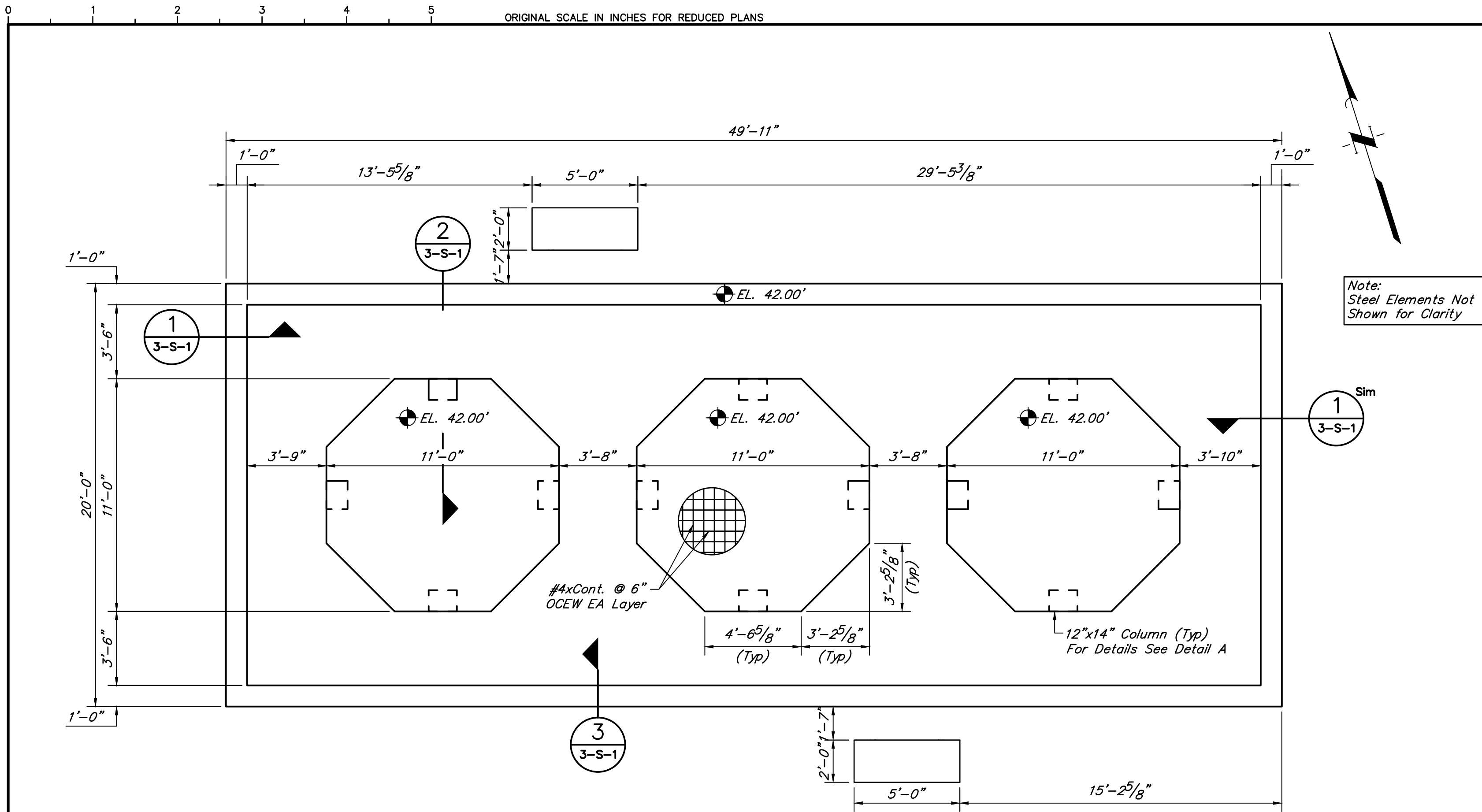
WET WEATHER LIFT STATION
OVERHEAD CRANE-RUNWAY BEAMS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

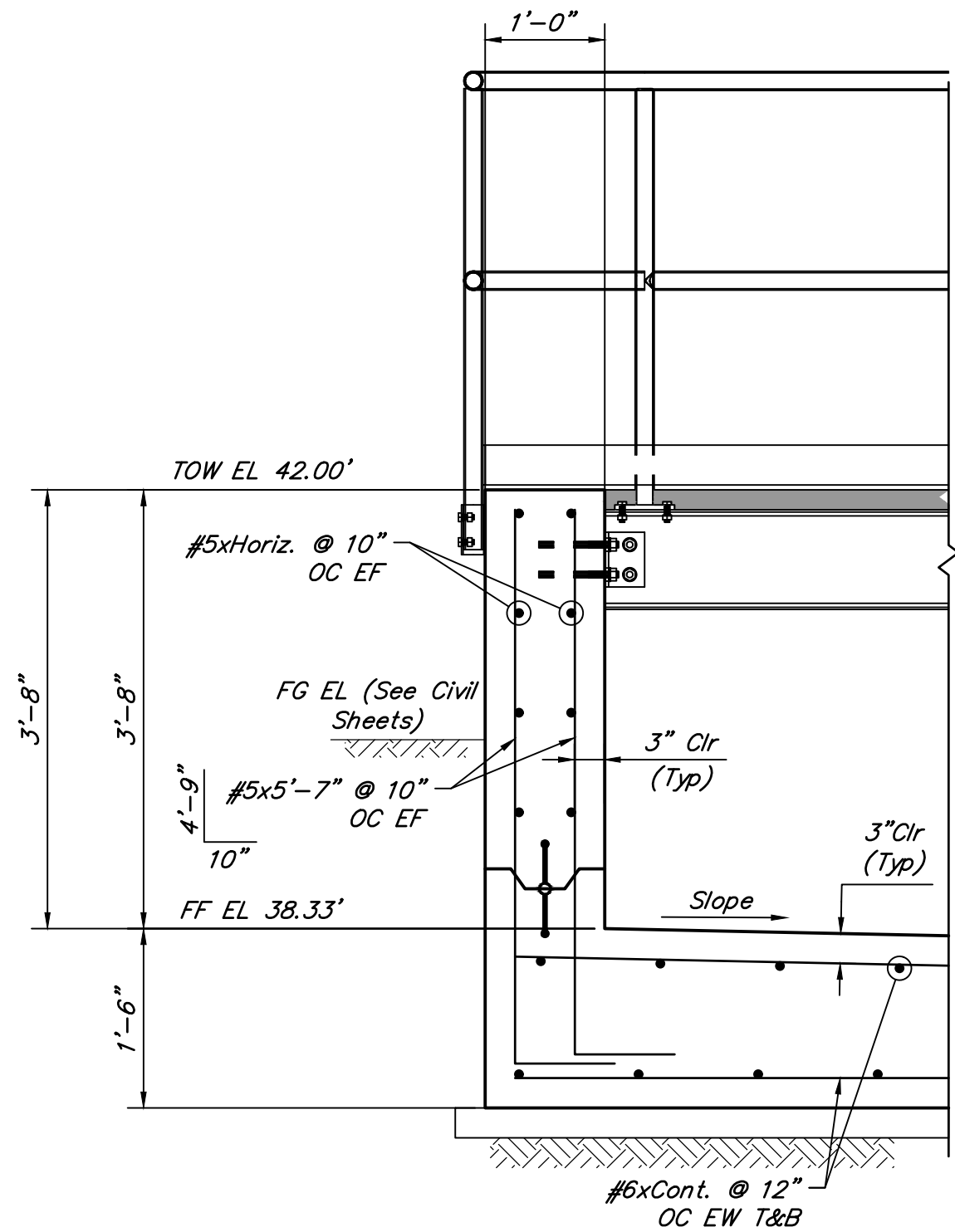
DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

CATEGORY NO. **2-S-3** SHEET NO. # OF XXX

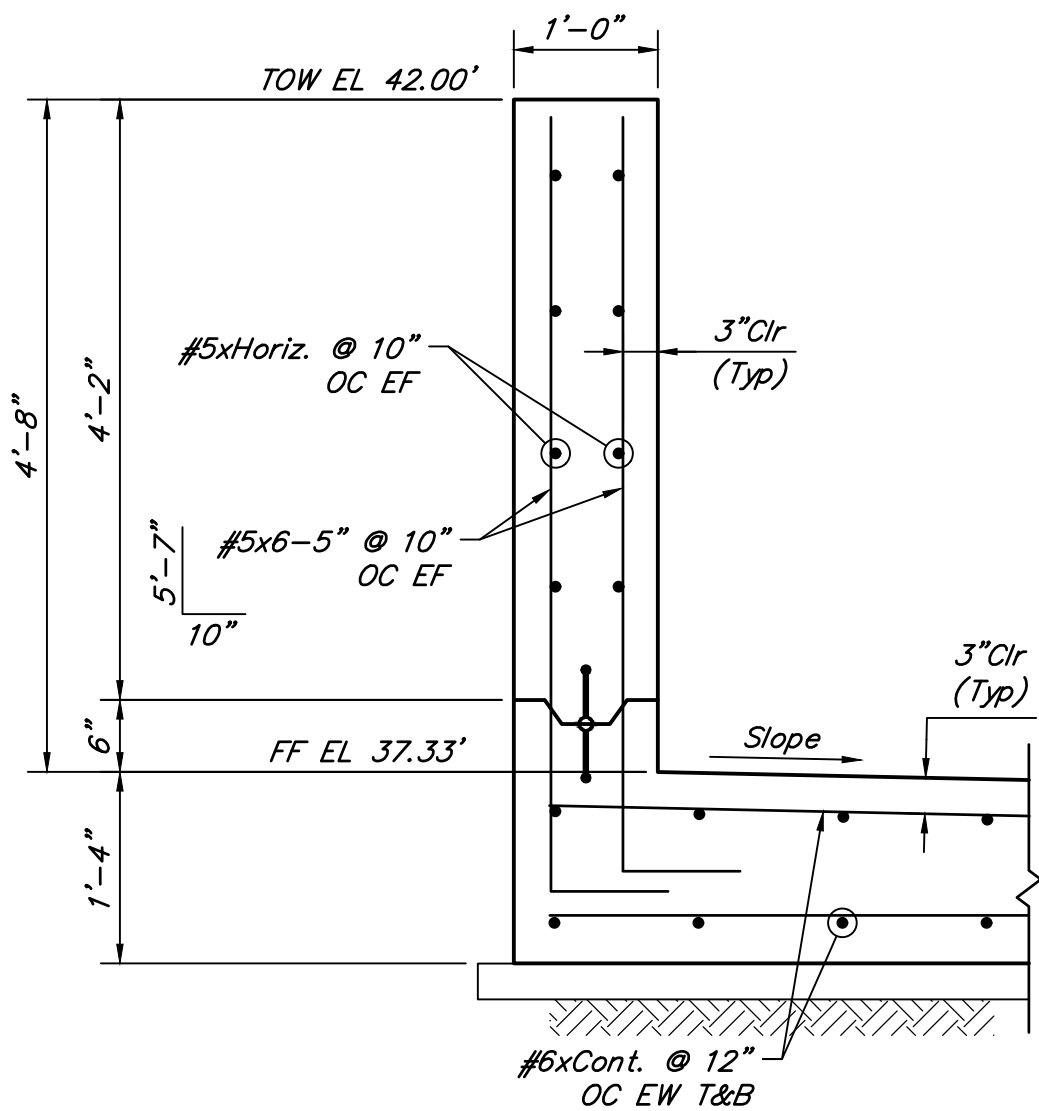
FOR CITY OF HOUSTON USE ONLY



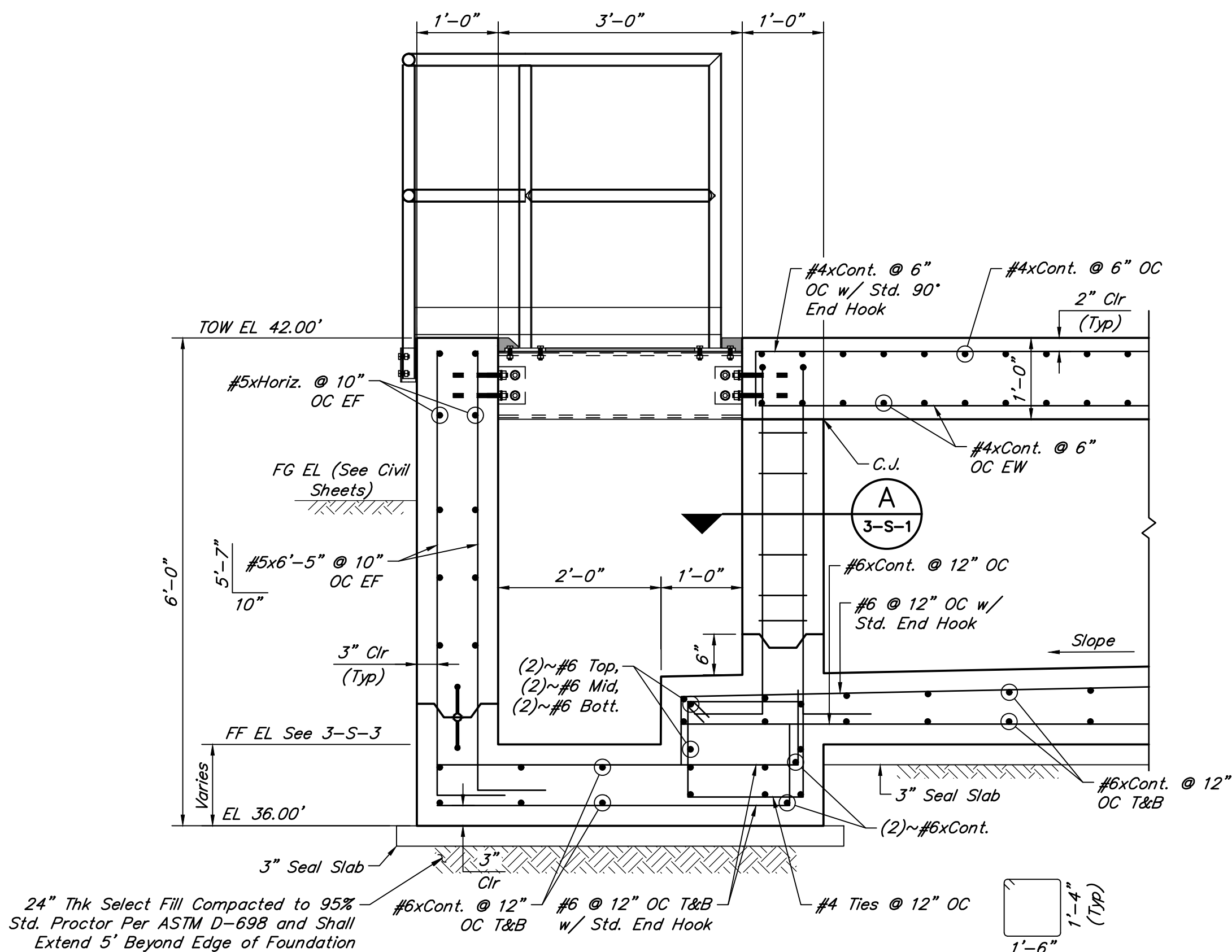
CONCRETE TOP OF WALL PLAN
SCALE: 1/4" = 1'-0"



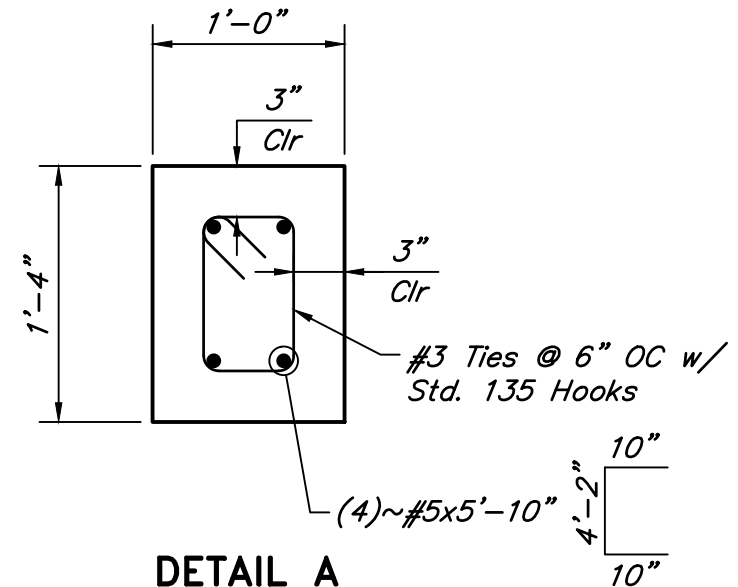
SECTION 3-3
SCALE: 3/4" = 1'-0"



SECTION 1-1
SCALE: 3/4" = 1'-0"



SECTION 2-2
SCALE: 3/4" = 1'-0"



DETAIL A
SCALE: 1" = 1'-0"

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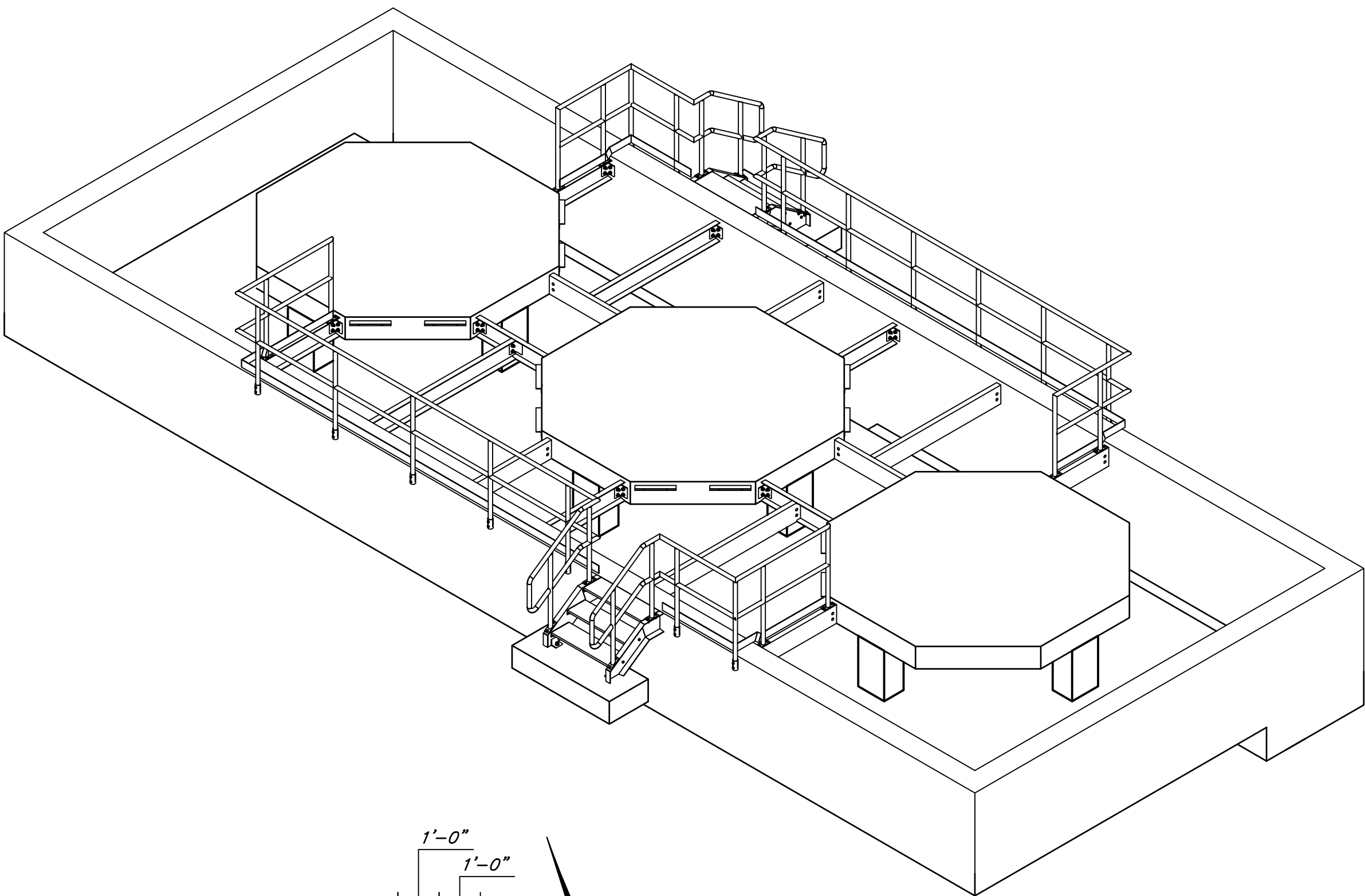
SCOTT STREET No. 1
LIFT STATION REHABILITATION

CHEMICAL STORAGE
TOP VIEW PLAN & SECTIONS

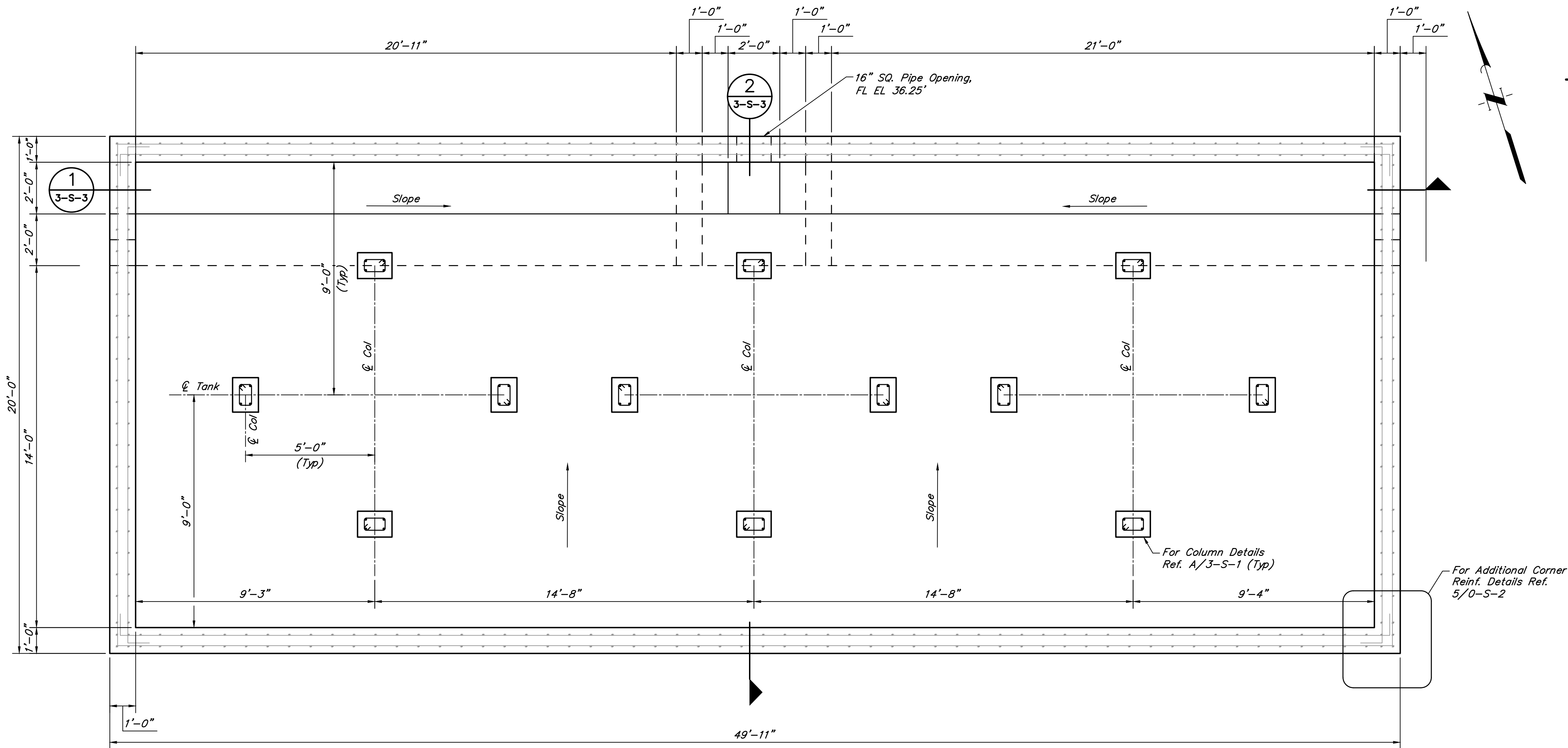
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

CATEGORY NO. **3-S-1** SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



3D VIEW
SCALE: 1/4" = 1'-0"



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

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Date: JANUARY 2026



QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

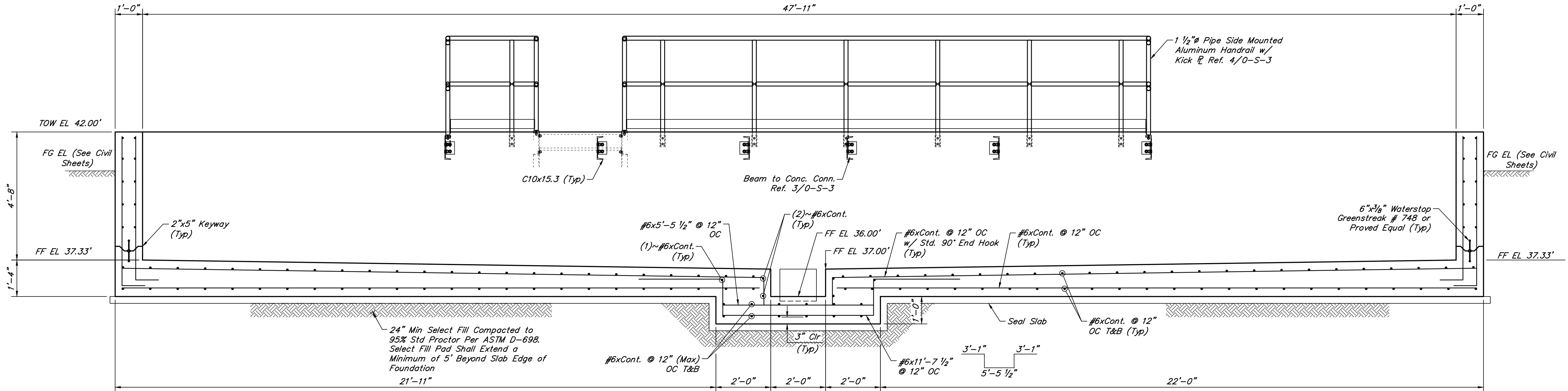
DATE: JANUARY 2026 DGN BY: JTREVINO
JOB NO: 00050-0099-01 DWG BY: ASALGADO

NOTE: CITY SIGNATURES VALID FOR ONE
YEAR ONLY AFTER DATE OF SIGNATURES

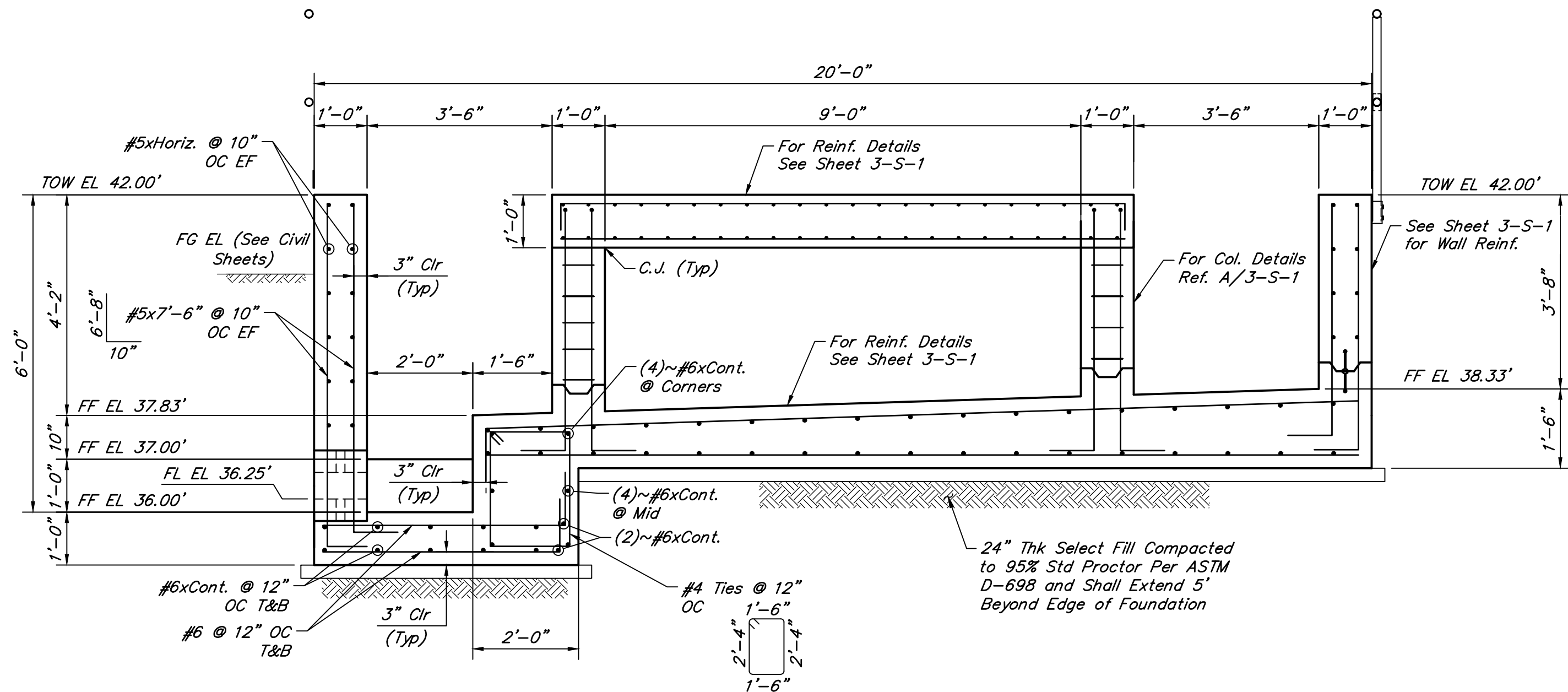
SCOTT STREET No. 1
LIFT STATION REHABILITATION
CHEMICAL STORAGE
& CHEMICAL BUILDING PAD
FOUNDATION PLAN & 3D VIEW

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX
CATEGORY NO. 3-S-2 SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



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



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

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: AHMAD DANESHVAR, P.E.
P.E. Serial No.: 132679
Date: JANUARY 2026



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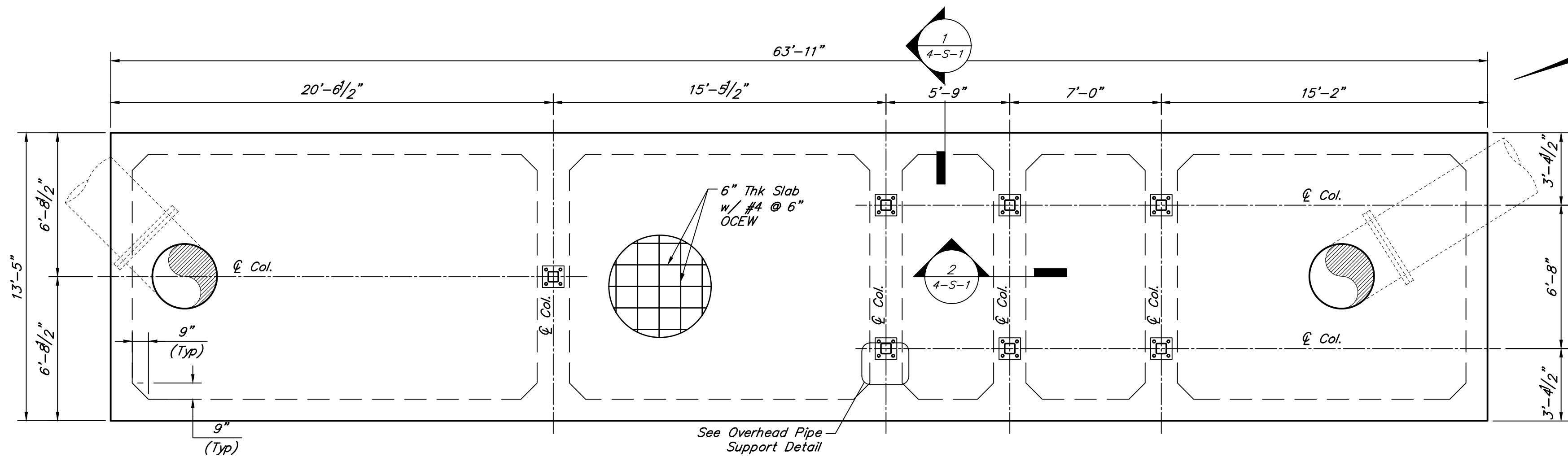
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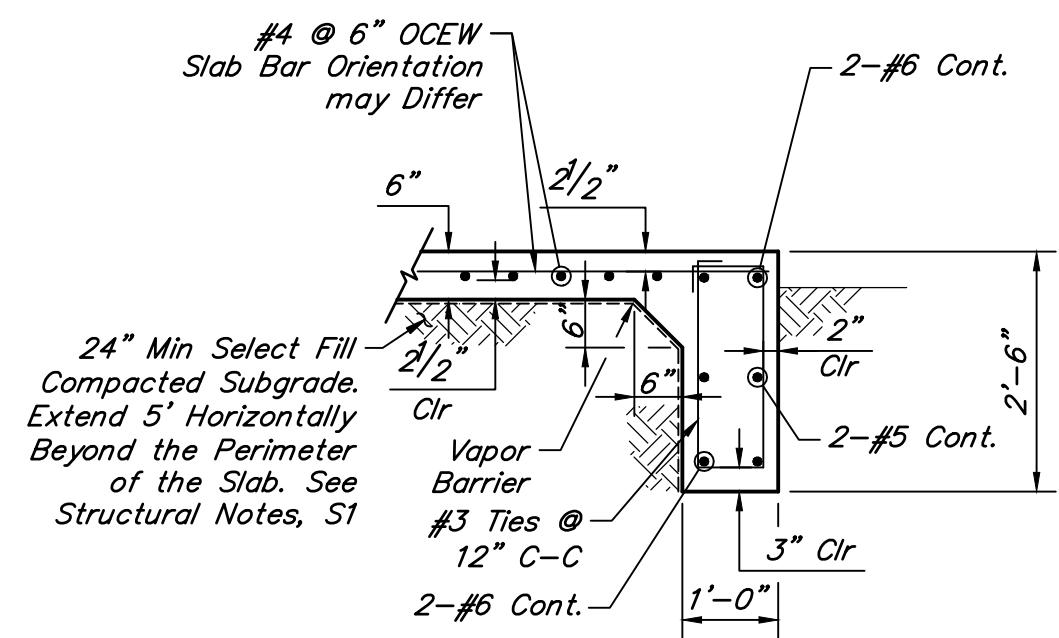
SCOTT STREET No. 1
LIFT STATION REHABILITATION
CHEMICAL STORAGE
& CHEMICAL BUILDING PAD
FOUNDATION SECTIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

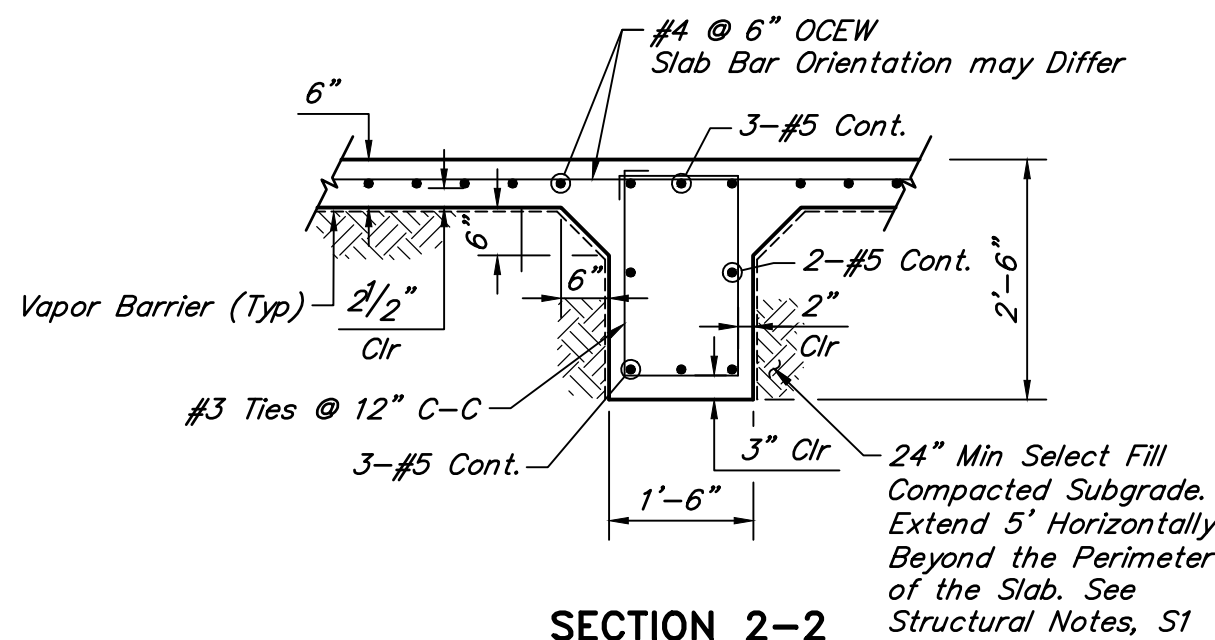
DRAWING SCALE 1/2"=1'-0" HORIZ: XXX VERT: XXX
CATEGORY NO. 3-S-3 SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



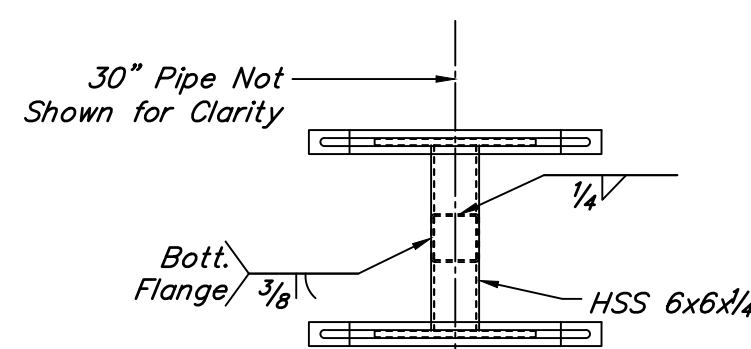
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



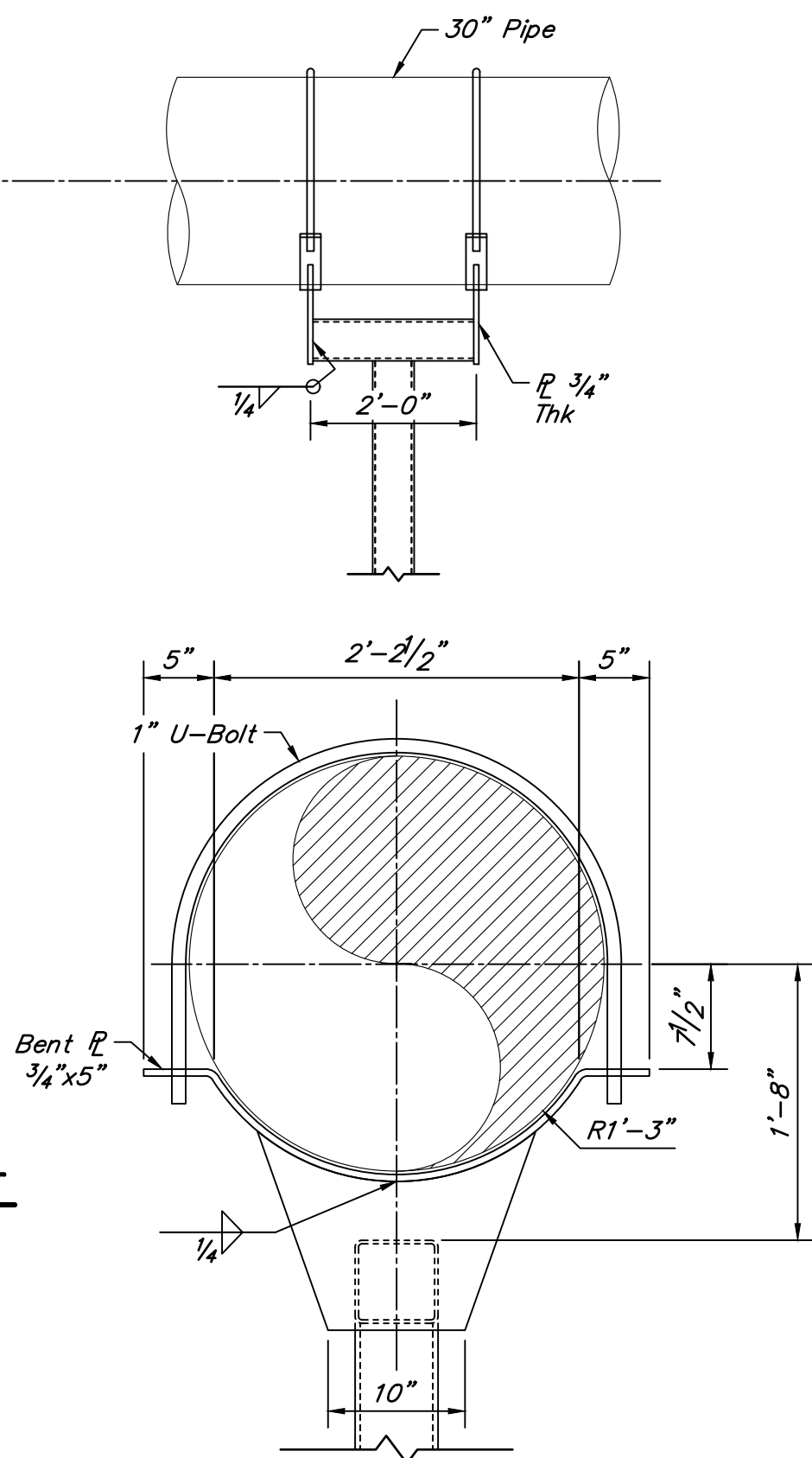
SECTION 1-1
SCALE: 1/2" = 1'-0"
Vertical Wall Reinforcement
not Shown for Clarity



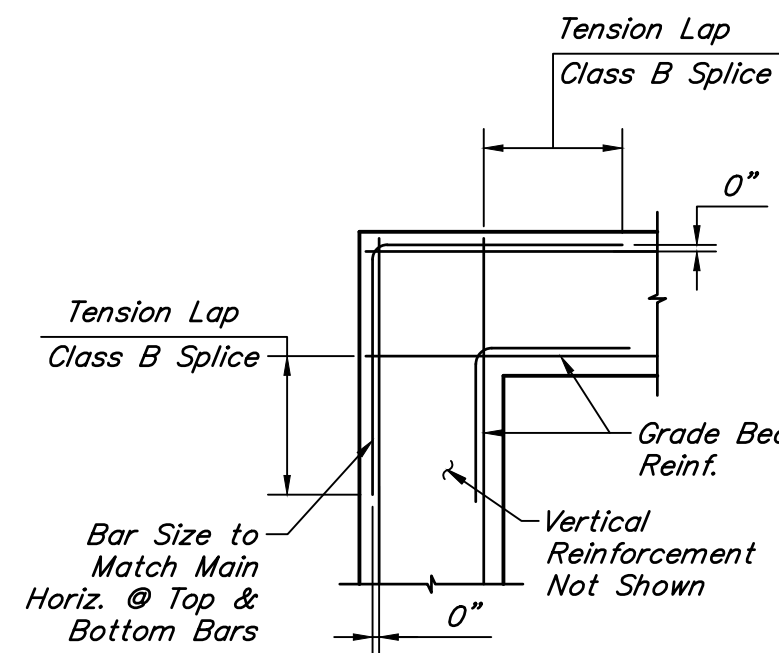
SECTION 2-2
SCALE: 1/2" = 1'-0"
Wall Details not Shown for Clarity



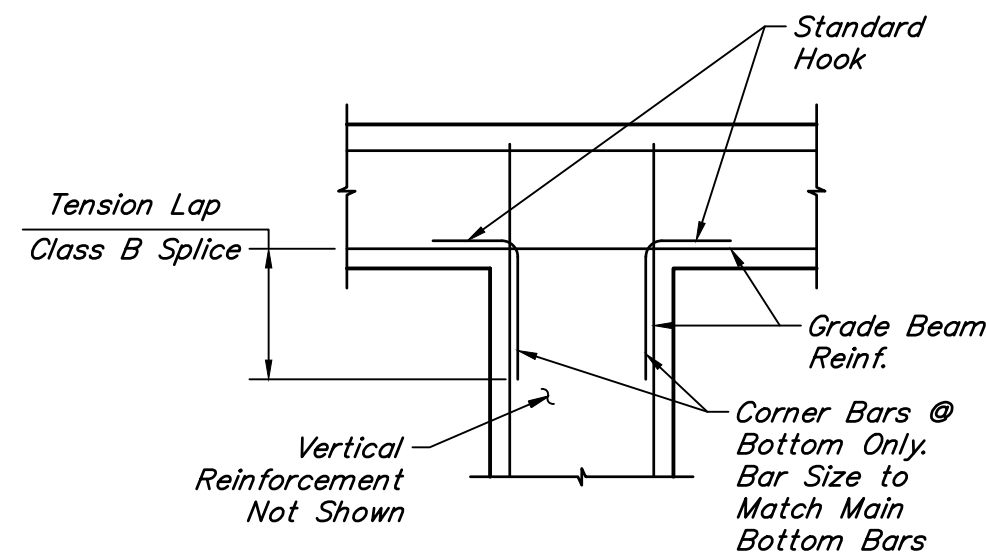
OVERHEAD PIPE SUPPORT
SCALE: 1/2" = 1'-0"



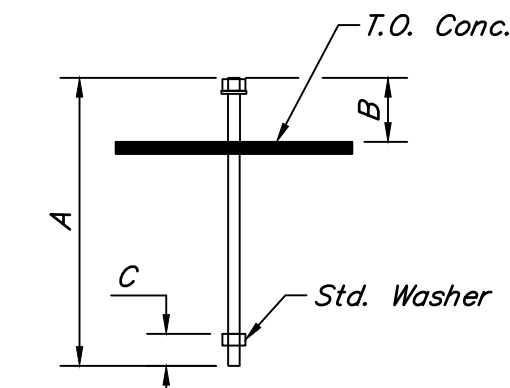
DETAIL A
SCALE: 1" = 1'-0"



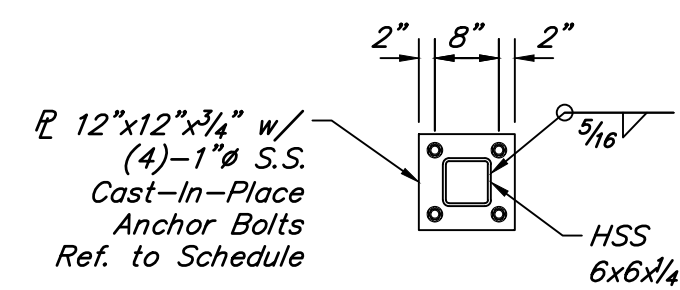
GRADE BEAM CORNER DETAILS
SCALE: 3/4" = 1'-0"

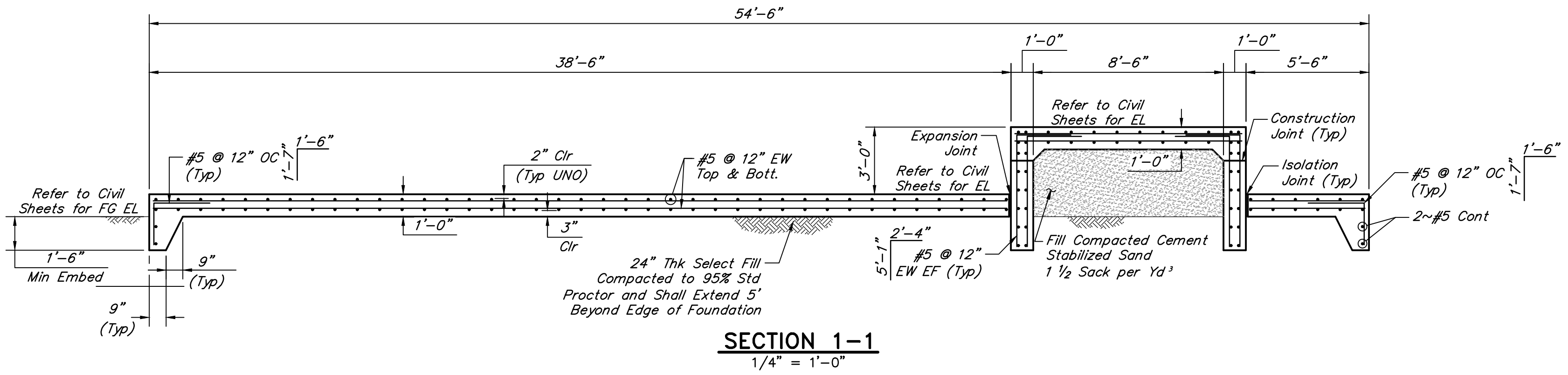
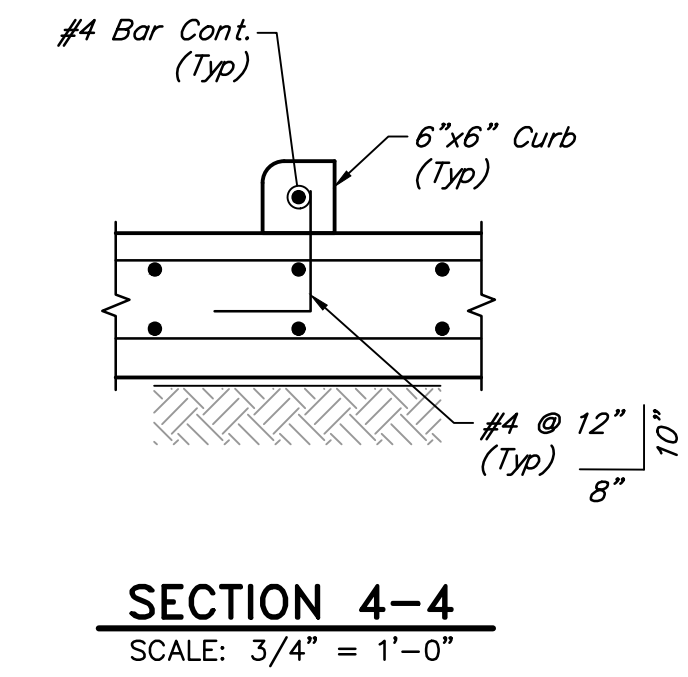
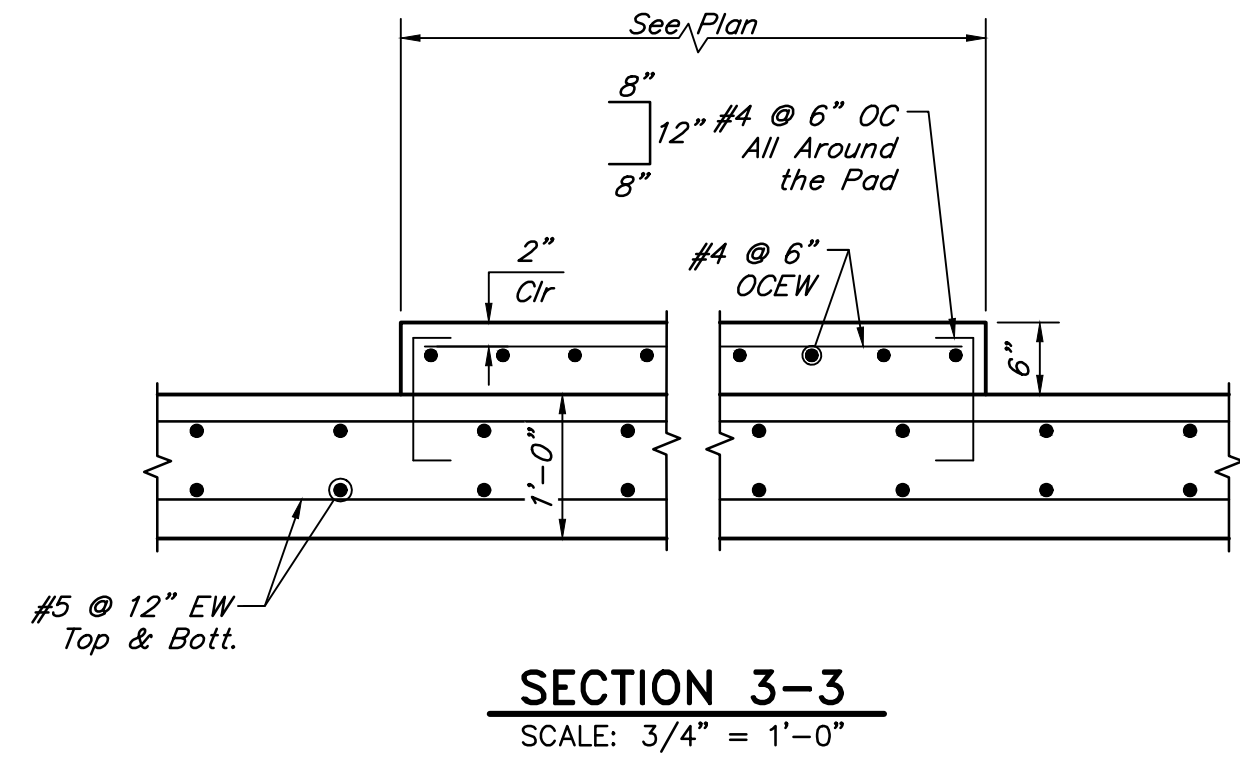
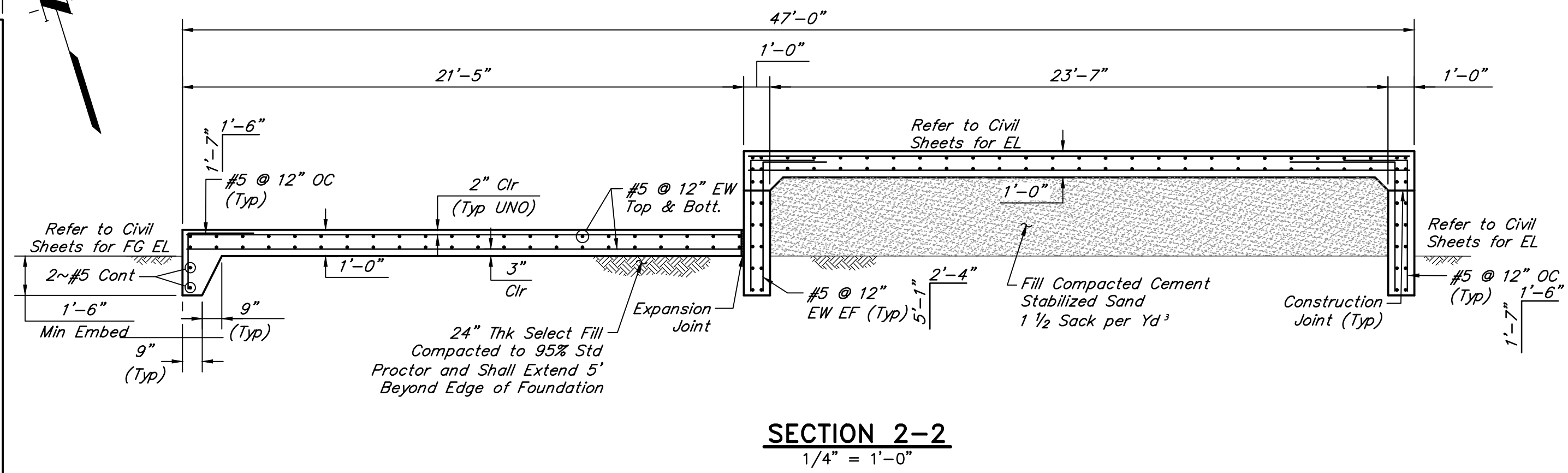
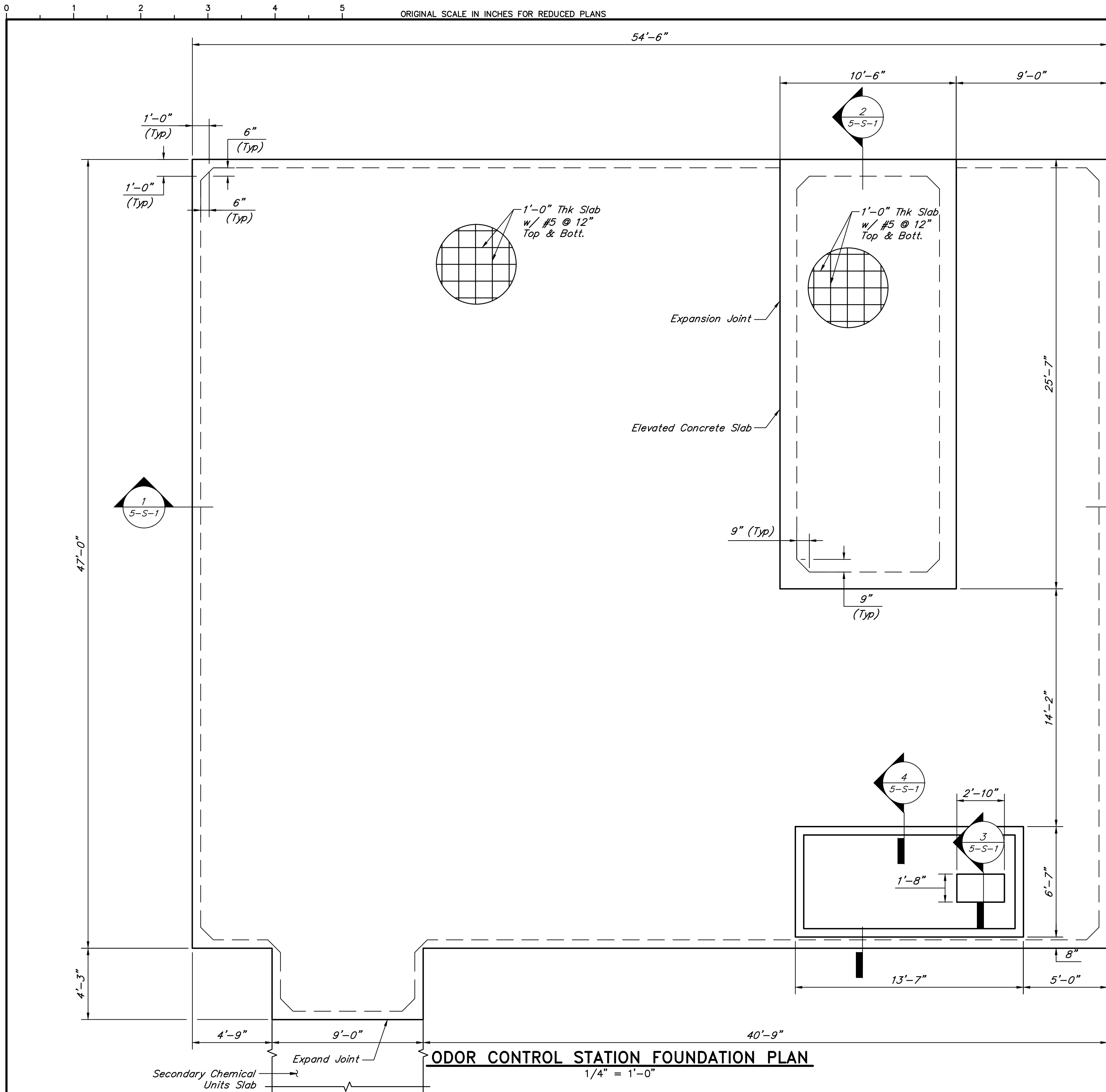


GRADE BEAM INTERSECTION DETAILS
SCALE: 1/2" = 1'-0"



ANC. ROD SCHEDULE TYP			
DIAMETER	A	B	C
1"	24"	5"	3"





NO.	DATE	REVISIONS	APP.

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Engineer: AHMAD DANESHVAR, P.E.

P.E. Serial No.: 132679

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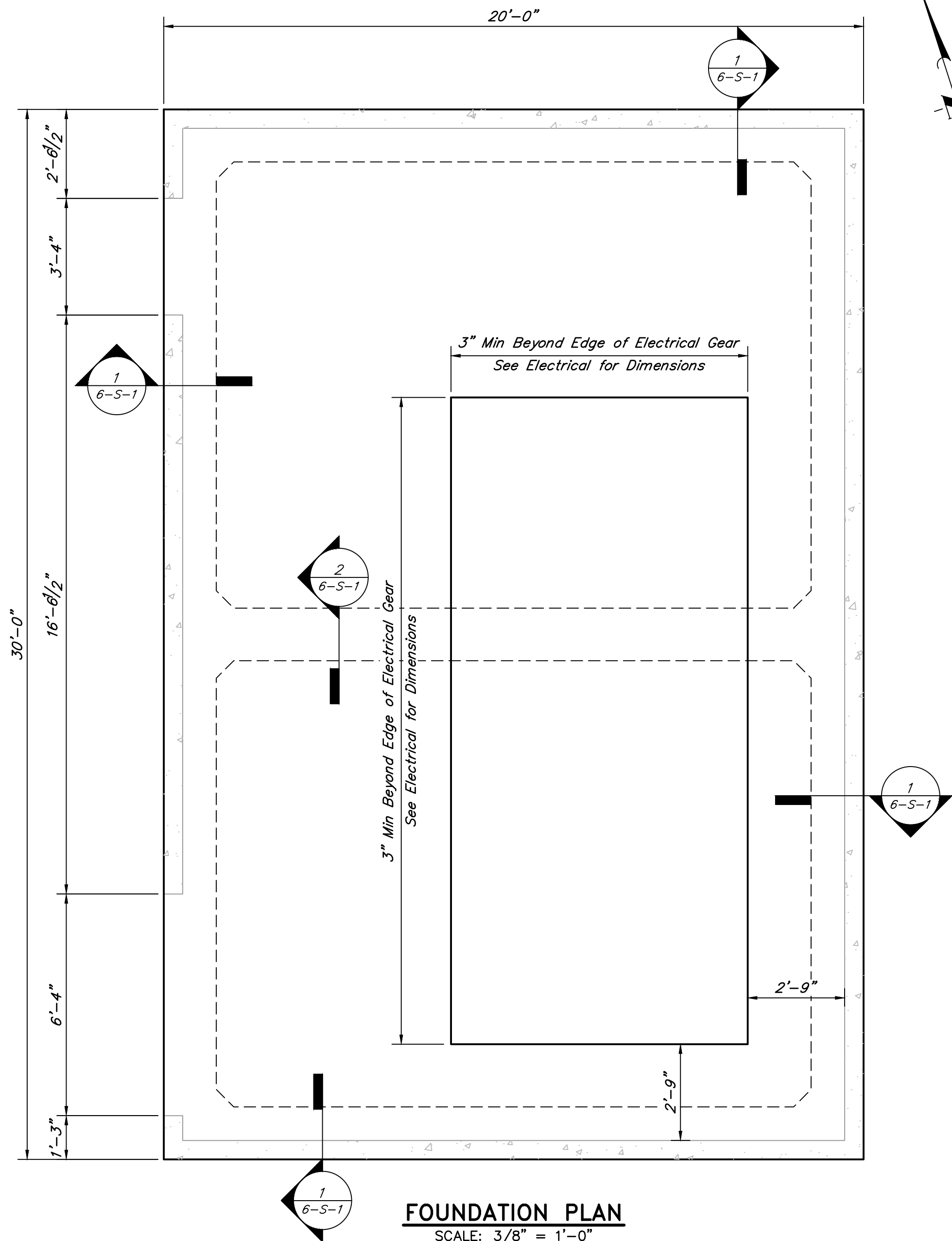
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SCOTT STREET No. 1
LIFT STATION REHABILITATION
ODOR CONTROL STATION
FOUNDATION PLAN
& SECTIONS

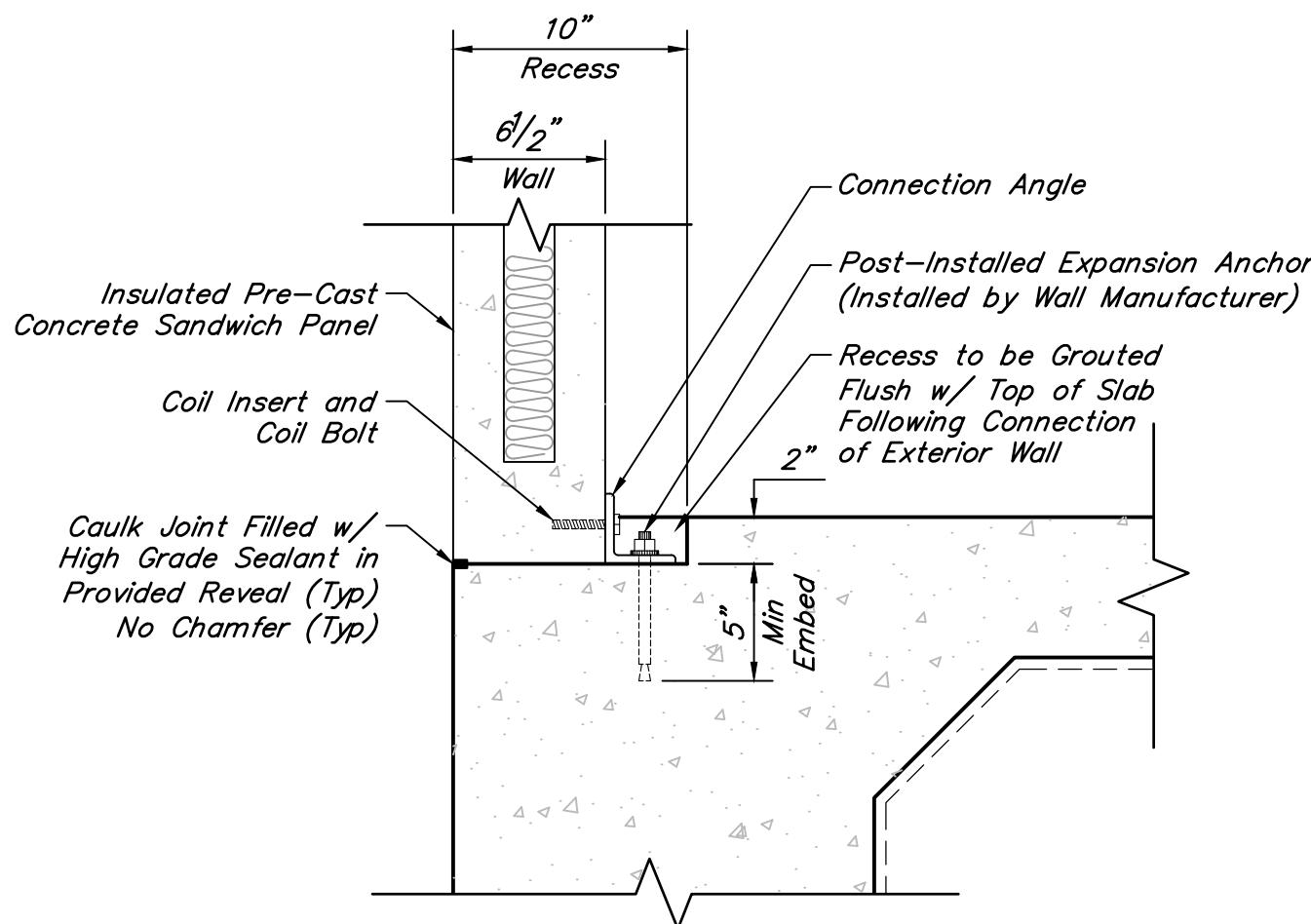
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE 1/4"=1'-0" HORIZ: XXX VERT: XXX

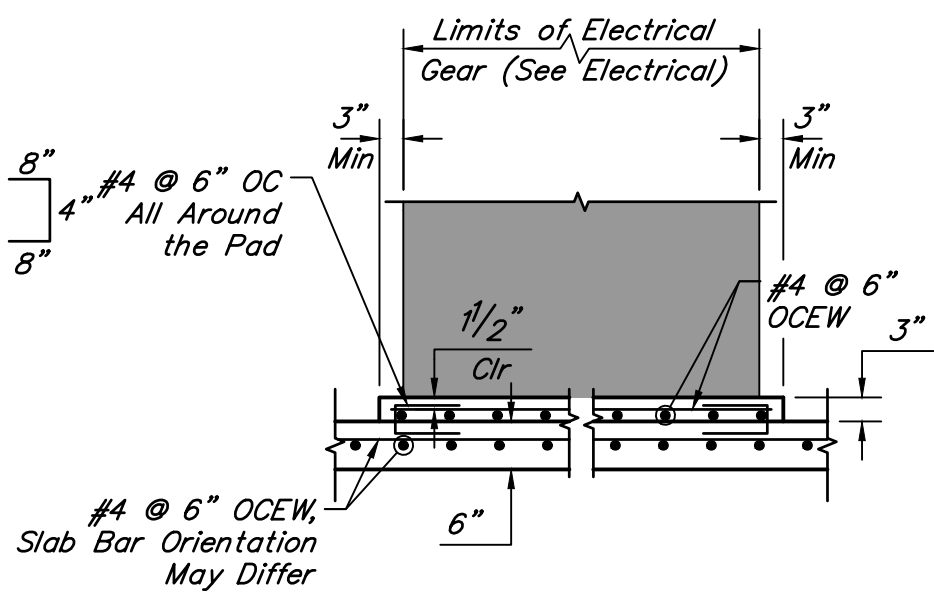
CATEGORY NO. 5-S-1 SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY



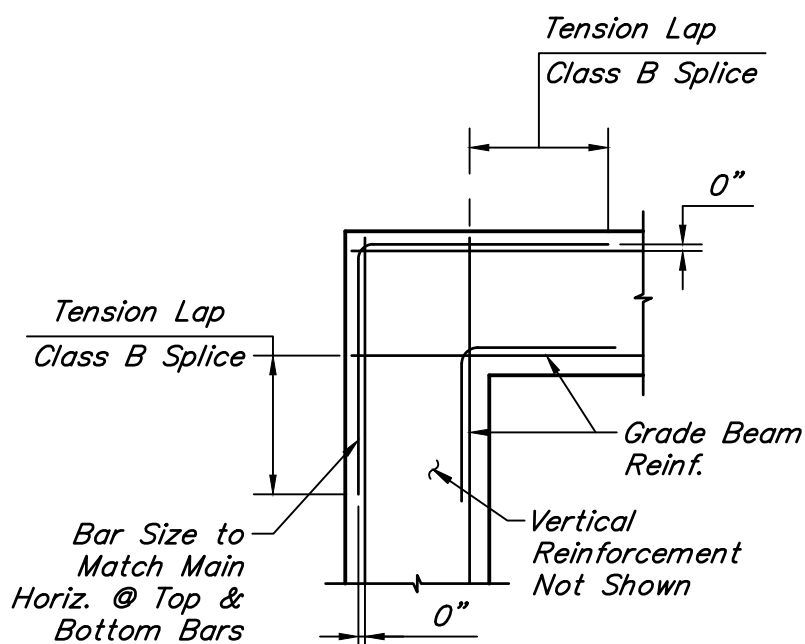
FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



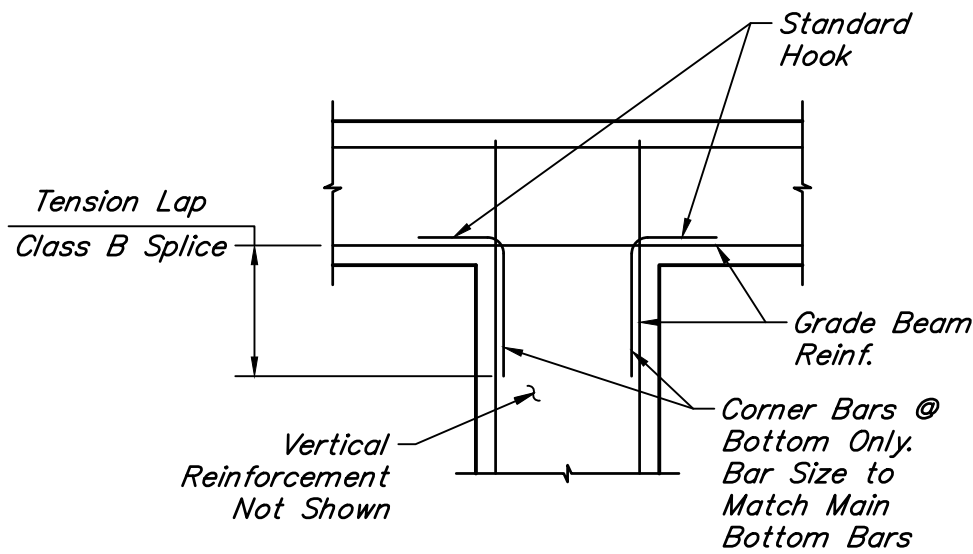
DETAIL A
SCALE: 1 1/2" = 1'-0"
SLAB REINFORCEMENT NOT SHOWN FOR CLARITY



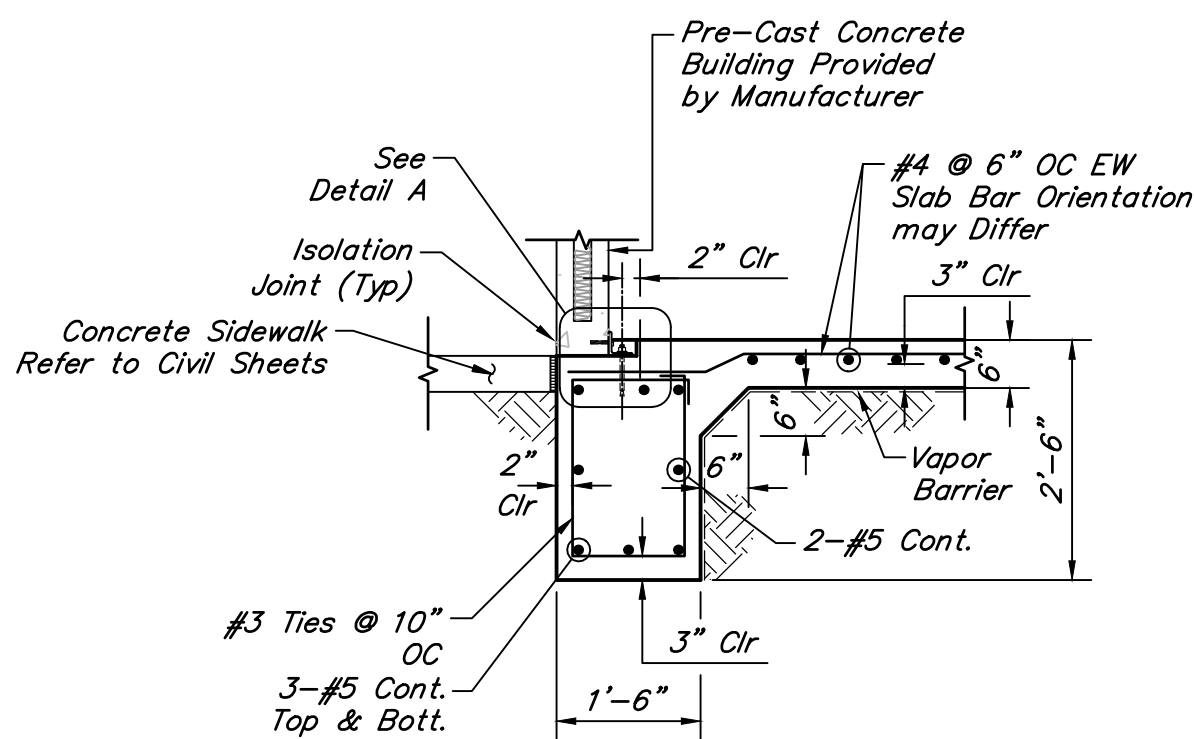
HOUSEKEEPING PAD DETAIL
SCALE: 1/2" = 1'-0"



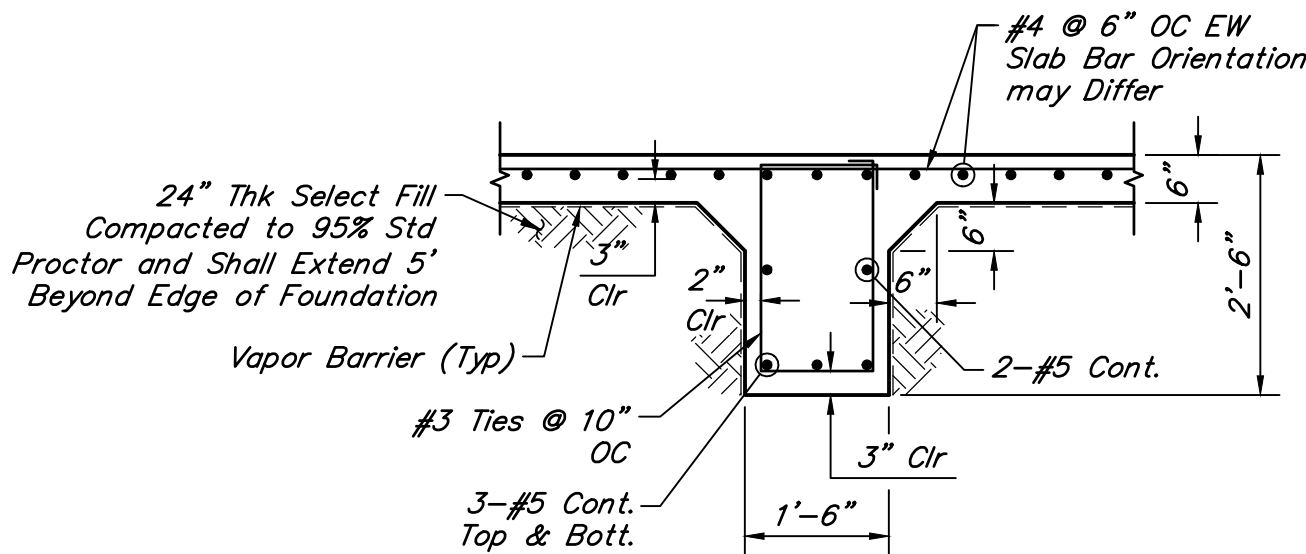
GRADE BEAM CORNER DETAILS
SCALE: 3/4" = 1'-0"



GRADE BEAM INTERSECTION DETAILS
SCALE: 1/2" = 1'-0"



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



SECTION 2-2
SCALE: 3/4" = 1'-0"

BUILDING NOTES:

BUILDING CODE:

- 2021 Edition of the international building code.
- ASCE-7, Minimum design loads for buildings and other structures.
- Proposed building category: U
 - Type of construction: III-B
 - Allowable No. of stories: 2
 - Allowable building area: 8,500 sf
 - Allowable building height: 55 ft
- Risk category: III (Table 1604.5, Waste Water Treatment Facilities)
- Fire resistance rating requirements for exterior walls:
 - Fire separation (Distance - Greater than 30ft)
 - Rating of exterior building wall
- Maximum area of exterior wall openings:
 - Unprotected, non-sprinkled-Greater than 30 ft-No-Limit (Table 705.8)
- This drawing to be read in conjunction with Mechanical drawings.

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SCOTT STREET No. 1
LIFT STATION REHABILITATION

ELECTRICAL BUILDING NO. 1
PLAN & SECTIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE AS SHOWN HORIZ: XXX VERT: XXX

CATEGORY NO. **6-S-1** SHEET NO. # OF XXX
FOR CITY OF HOUSTON USE ONLY

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION																
	MEDIUM VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER CS-CONTROL SWITCH		VOLTMETER (WITH SWITCH IF 3-PHASE)		PILOT LIGHT, COLOR AS NOTED * R- RED G- GREEN B- BLUE W- WHITE A- AMBER		LIGHTNING ARRESTER/SURGE CAPACITOR																
	LOW VOLTAGE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED. LSIG IF NOTED MCP IF NOTED ERMS IF NOTED		AMMETER (WITH SWITCH IF 3-PHASE)		PILOT LIGHT, PUSH-TO-TEST TYPE, COLOR AS NOTED ABOVE.		GROUND ROD																
	COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS OTHERWISE NOTED: * FVR-FULL VOLTAGE REVERSING RVNR-REDUCED VOLTAGE NON-REVERSING 2S1W-TWO SPEED, ONE WINDING 2S2W-TWO SPEED, TWO WINDING		METER * WM- WATTMETER WHM- WATTHOUR METER WHDM- WATTHOUR DEMAND METER WHDR- WATTHOUR DEMAND RECORDER PF- POWER FACTOR METER RT- RUNNING TIME METER		TIME DELAY RELAY RANGE AS NOTED SET POINT AS NOTED TDD-TIME DELAY AFTER DE-ENERGIZATION-OFF DELAY TDE-TIME DELAY AFTER ENERGIZATION-ON DELAY NOTC-NORMALLY OPEN, TIMED CLOSING WHEN ENERGIZED NCTO-NORMALLY CLOSED, TIMED OPENING WHEN ENERGIZED NOTO-NORMALLY OPEN, TIMED OPENING WHEN DE-ENERGIZED NCTC-NORMALLY CLOSED, TIMED CLOSING WHEN DE-ENERGIZED		GROUND ROD TEST WELL																
	NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A		RELAY, NO. AS INDICATED 25- SYNCHRONISM CHECK RELAY 27- UNDER VOLTAGE RELAY 38- BEARING PROTECTIVE DEVICE 40- LOSS OF EXCITATION RELAY 42- RUNNING CONTACTOR/PILOT RELAY 46- REVERSE PHASE/PHASE BALANCE/CURRENT RELAY 47- PHASE SEQUENCE VOLTAGE RELAY 49- MACHINE OR TRANSFORMER THERMAL RELAY 50- INSTANTANEOUS OVERCURRENT RELAY 50G- INSTANTANEOUS GROUND 51- TIME OVER CURRENT RELAY 51G- TIME OVERCURRENT RELAY, GROUNDING RESISTOR TYPE 51N- TIME OVERCURRENT RELAY, RESIDUAL TYPE 51V- TIME OVERCURRENT RELAY WITH VOLTAGE RESTRAINT 60- NEGATIVE SEQUENCE VOLTAGE RELAY 62- TIME DELAY RELAY 63- OVER PRESSURE RELAY 67- AC DIRECTIONAL OVERCURRENT RELAY 83- AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY 86- LOCKING-OUT RELAY 87- DIFFERENTIAL PROTECTIVE RELAY B- SUFFIX INDICATES "BUS" G- SUFFIX INDICATES "GENERATOR" GF- GROUND FAULT ST- SHUNT TRIP T- SUFFIX INDICATES "TRANSFORMER" X- SUFFIX INDICATES "AUXILIARY"		FIELD INSTRUMENT, TAG NO. OR LOOP # AS INDICATED *INDICATES INSTRUMENT TYPE DEFINED ON LOOP SHEETS ## - INDICATES LOOP NO.		FUSE, AMPERE RATING AS NOTED																
	FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE, AMPERE RATING AND FUSE SIZE AS NOTED: * AMPERE RATING NOTED IF OTHER THAN 30A FUSE RATING		MOTOR ISOLATION SWITCH, HORSEPOWER RATED		LIQUID LEVEL (FLOAT) SWITCH NORMALLY OPEN, CLOSSES ON RISING LEVEL NORMALLY CLOSED, OPENS ON RISING LEVEL NORMALLY OPEN, CLOSSES ON DROPPING LEVEL NORMALLY CLOSED, OPENS ON DROPPING LEVEL		INDUCTOR																
	MOTOR ISOLATION SWITCH, HORSEPOWER RATED		SPECIAL CAPACITOR * SC- SURGE CAPACITOR PF- POWER FACTOR CORRECTION CAPACITOR INCLUDING INDUCTIVE LINK AS NEEDED		PRESSURE OR VACUUM SWITCH NORMALLY OPEN, CLOSSES ON RISING PRESSURE NORMALLY CLOSED, OPENS ON RISING PRESSURE NORMALLY OPEN, CLOSSES ON DROPPING PRESSURE NORMALLY CLOSED, OPENS ON DROPPING PRESSURE		GENERATOR TACHOMETER																
	DRAWOUT TYPE EQUIPMENT OR DEVICE		PUSH BUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY CLOSED		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		CONTACT, NORMALLY OPEN (NO)																
	MEDIUM VOLTAGE CABLE TERMINATION		PUSH BUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY OPEN		FLOW SWITCH (AIR, WATER, ETC.) NORMALLY OPEN, CLOSSES ON INCREASED FLOW NORMALLY OPEN, CLOSSES ON DROPPING FLOW NORMALLY CLOSED, OPENS ON INCREASED FLOW NORMALLY CLOSED, OPENS ON DROPPING FLOW		CONTACT, NORMALLY CLOSED (NC)																
	MEDIUM VOLTAGE AIR INTERRUPTER SWITCH		EMERGENCY STOP PUSH BUTTON WITH RED MUSHROOM HEAD OPERATOR (MAINTAINED CONTACT)		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		OVERLOAD RELAY HEATER																
	MEDIUM VOLTAGE FUSED AIR INTERRUPTER SWITCH		STOP PUSH BUTTON WITH RED HEAD OPERATOR (MAINTAINED CONTACT) WITH LOCKABLE OPTION *: E-STOP *: STOP		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		KEY INTERLOCK																
	MEDIUM VOLTAGE FUSED MOTOR CONTROLLER		START-STOP PUSH BUTTON CONTROL STATION (MOMENTARY CONTACT) "L" DENOTES LOCKOUT TYPE		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		TERMINAL OR TEST BLOCK																
	TRANSFORMER, RATINGS AND CONNECTIONS AS NOTED, UNLESS OTHERWISE NOTED ON THE SINGLE LINE DIAGRAMS ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND LABORATORY SPACES SHALL HAVE A K FACTOR OF 13. ALL OTHER DRY TYPE TRANSFORMERS SHALL HAVE A K-4 RATING. ISOLATION TRANSFORMERS SHALL HAVE A K-20 RATING		START-STOP PUSH BUTTON CONTROL STATION (MOMENTARY CONTACT) "L" DENOTES LOCKOUT TYPE		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		RESISTANCE TEMPERATURE DETECTOR																
	CURRENT TRANSFORMER: * QUANTITY A= PRIMARY AMPERES		START-STOP PUSH BUTTON CONTROL STATION, MAINTAINED CONTACT WITH LOCKOUT DEVICE ON STOP		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		VIBRATION DETECTOR																
	POTENTIAL TRANSFORMER: * QUANTITY PV= PRIMARY VOLTAGE SV= SECONDARY VOLTAGE		3 POSITION SELECTOR SWITCH, MAINTAINED CONTACT O-OPEN X-CLOSED <table border="1"><thead><tr><th>POSITION</th><th>TOP CONTACT</th><th>MIDDLE CONTACT</th><th>BOTTOM CONTACT</th></tr></thead><tbody><tr><td>A</td><td>X</td><td>O</td><td>O</td></tr><tr><td>B</td><td>O</td><td>O</td><td>O</td></tr><tr><td>C</td><td>O</td><td>O</td><td>X</td></tr></tbody></table> *: NAMEPLATE (A/B/C) HOA- HAND/OFF/AUTO HOR- HAND/OFF/REMOTE LOR- LOCAL/OFF/REMOTE RSL- RAISE/STOP/LOWER TOA- TEST/OFF/AUTO	POSITION	TOP CONTACT	MIDDLE CONTACT	BOTTOM CONTACT	A	X	O	O	B	O	O	O	C	O	O	X		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		DAMPER MOTOR
POSITION	TOP CONTACT	MIDDLE CONTACT	BOTTOM CONTACT																				
A	X	O	O																				
B	O	O	O																				
C	O	O	X																				
	GENERATOR, RATINGS AND CONNECTIONS AS NOTED		OFF/ON SELECTOR SWITCH		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		ELAPSED TIME METER																
	TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH (EG ATS-1) MANUAL TRANSFER SWITCH (EG MTS-1) "N" INDICATES NORMAL SOURCE "S" INDICATES STANDBY SOURCE 100A INDICATES CONTINUOUS CURRENT RATING		VARIABLE SPEED DRIVE CONTROLLER * D.C.= D.C. DRIVE CONTROLLER SCR= SILICON CONTROLLED RECTIFIER VFD= VARIABLE FREQUENCY DRIVE AFD= ADJUSTABLE FREQUENCY DRIVE ASD= ADJUSTABLE SPEED DRIVE		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		MOTOR OPERATED VALVE																
	VACUUM CONTACTOR		POSITION (LIMIT) SWITCH NORMALLY OPEN NORMALLY OPEN - HELD CLOSED NORMALLY CLOSED NORMALLY CLOSED - HELD OPEN		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		JUNCTION BOX																
	UNIT HEATER - ELECTRIC HEATING COIL AND FAN		POSITION (LIMIT) SWITCH NORMALLY OPEN NORMALLY OPEN - HELD CLOSED NORMALLY CLOSED NORMALLY CLOSED - HELD OPEN		TEMPERATURE SWITCH OR THERMOSTAT NORMALLY OPEN, CLOSSES ON RISING TEMPERATURE NORMALLY CLOSED, OPENS ON RISING TEMPERATURE NORMALLY OPEN, CLOSSES ON DROPPING TEMPERATURE NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE		CONDUCTOR PULL BOX																
	UNIT HEATER - STEAM OR WATER HEATING COIL AND FAN		TORQUE SWITCH NORMALLY CLOSED, OPENS ON HIGH TORQUE		MOV WITHOUT INTEGRATED DISCONNECT		MOV WITH INTEGRATED DISCONNECT																
	MOTOR, NUMERAL INDICATES HORSEPOWER		MOTOR STARTER COIL, NUMBER AS INDICATED		MOV WITH INTEGRATED DISCONNECT		TERMINATION CABINET																
	SURGE PROTECTION DEVICE		CONTROL RELAY COIL, NUMBER AS INDICATED		MOV WITH INTEGRATED DISCONNECT		REMOTE DEVICES																
			RVSS: REDUCED VOLTAGE SOLID STATE SOFT STARTER		MOV WITH INTEGRATED DISCONNECT		MOV WITHOUT INTEGRATED DISCONNECT																
			RVAT: REDUCED VOLTAGE AUTO-TRANSFORMER		MOV WITH INTEGRATED DISCONNECT		MOV WITH INTEGRATED DISCONNECT																
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ELECTRICAL GENERAL NOTES

- WHERE NOTES ON THE DRAWINGS STATE THAT "THE CONTRACTOR SHALL FIELD VERIFY", THE INTENT IS FOR THE CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS, PRIOR TO THE START OF WORK, TO ENSURE THE WORK CAN BE COMPLETED AS DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACT PRICE SHALL NOT BE INCREASED IF THE CONTRACTOR HAS NOT INVESTIGATED, PRIOR TO THE START OF WORK, WHERE THE NOTES DIRECTING THAT TO BE DONE.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LATEST EDITION OF THE NEC (NATIONAL ELECTRICAL CODE), LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION.
- ALL PROPOSED ELECTRICAL EQUIPMENT THAT SERVE THE FACILITY SHALL BE ELEVATED TO ATLEAST 3FT ABOVE THE 500 YEAR FLOOD PLAIN ELEVATION. 500 YEAR FLOOD ELEVATION IS EL.32.00.
- THE NOTES CONTAINED ON THIS SHEET ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR WHEN WORKING IN THE FIELD, AND CONTAIN EXCERPTS FROM THE SPECIFICATION SECTIONS. HOWEVER THE CONTRACTOR IS HEREBY ADVISED THAT THE CONTRACT DOCUMENTS CONSIST OF BOTH THE DRAWINGS AND THE SPECIFICATIONS, AND THAT THE CONTRACTOR MUST COMPLY FULLY WITH BOTH THE BID DRAWINGS AND SPECIFICATIONS.
- ALL EQUIPMENT WIRING, RACEWAYS, ETC. SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AND INDUSTRY STANDARDS (IE. UL, NEMA, IEEE, ANSI, ETC.) THE DRAWING NOTES AND DETAILS SHALL BE COMPLIED WITH IN ADDITION TO THE REQUIREMENTS IN THE SPECIFICATIONS. REFER TO EACH SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.
- ALL RACEWAY INSTALLATIONS SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. ALL EXPOSED RACEWAY SHALL BE INSTALLED PARALLEL TO BEAMS, CEILINGS, FLOORS AND WALLS. SEE SPECIFICATION ON RACEWAYS FOR ADDITIONAL REQUIREMENTS.
- CONDUIT IN AIR CONDITIONED SPACES MAY BE RIGID ALUMINUM. EXPOSED CONDUIT LOCATED IN THE WET WELLS, DRY WELLS AND ALL OUTDOORS SHALL BE PVC COATED RIGID ALUMINUM. IT SHALL BE, PREPARED, THREADED, SUPPORTED AND INSTALLED IN A WORKMANSHIP LIKE MANNER AND STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SPECIFICATIONS, AND DRAWINGS.
- PVC COATED CONDUIT SHALL BE TERMINATED INTO ENCLOSURES WITH PVC COATED MYERS TYPE HUBS. IT SHALL BE PERPENDICULAR TO THE WALLS OF THE ENCLOSURE. THE USE OF CONDUIT FITTINGS TO ENTER ENCLOSURES IS NOT PERMITTED, RFI THE SITUATION FOR EXCEPTION ACCEPTANCE.
- ALL RACEWAY INSTALLATIONS, CROSSING EXPANSION JOINTS OR TRANSITIONS SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION TYPE FITTINGS AS SPECIFIED FOR THE APPLICATION. SEE THE DRAWINGS AND THE SPECIFICATION ON RACEWAYS FOR THE EXACT TYPE OF FITTING TO BE USED.
- NO CONDUIT SMALLER THAN 3/4" IS ALLOWED, EXCEPT WHERE REQUIRED TO ENTER A SPECIFIC DEVICE OR INSTRUMENT. POWER CONDUCTOR SHALL #12 AWG MINIMUM. CONDUCTORS SMALLER THAN #12 AWG IN DUCT BANK SHALL BE IN MULTI-CONDUCTOR CABLES. ALL CABLES ROUTED UNDERGROUND SHALL BE RATED FOR WET ENVIRONMENT.
- CONTRACTOR SHALL CONFIRM UNDERGROUND DUCTS SIZES FOR ALL UNDERGROUND DUCT BANKS TO BE SCH 80 RIGID PVC, ENCASED IN REBAR REINFORCED RED CONCRETE. CONCRETE SHALL BE DYED RED, IN THE TRUCK, BEFORE PLACEMENT. DUCT BANKS SHALL RISE VERTICALLY TO BE POURED MONOLITHIC WITH STRUCTURES, ROADWAYS OR FOUNDATIONS. DUCT BANKS SHALL NOT BE SUBJECT TO DISPROPORTIONATE SETTLLING. COORDINATE ROUTING OF NEW CONDUIT AND DUCT BANKS TO AVOID INTERFERENCE WITH EXISTING CONDUIT, DUCT BANKS, AND OTHER UNDERGROUND UTILITIES.
- ALL CHANGES OF DIRECTION GREATER THAN 10 DEGREES IN UNDERGROUND DUCT BANKS SHALL BE ACCOMPLISHED USING PVC COATED RIGID ALUMINUM FACTORY BENDS. BENDS OF PVC CONDUIT GREATER THAN 10 DEGREES, OR THE USE OF FLEXIBLE CONDUIT OF ANY TYPE, IS NOT PERMITTED. SEE THE SPECIFICATIONS FOR MORE REQUIREMENTS.
- LIQUID TIGHT FLEXIBLE ALUMINUM CONDUIT SHALL BE USED FOR; THE PRIMARY AND SECONDARY OF TRANSFORMERS, DEVICE TERMINATIONS AND WHERE VIBRATION IS PRESENT. USE IN CONDUIT RUNS IS NOT PERMITTED. LIQUID TIGHT FLEXIBLE ALUMINUM CONDUIT SHALL HAVE A MAXIMUM LENGTH OF 3 FEET. THE MAXIMUM BENDING RADIUS SHALL NOT BE LESS THAN THAT SHOWN IN THE NEC CHAPTER 9, TABLE 2.
- THE WIRING DIAGRAMS, BLOCK DIAGRAMS, QUANTITY/SIZES OF WIRES/CONDUITS PRESENTED IS BASED UPON THE SELECTED DESIGN EQUIPMENT. DEVIATIONS FROM THE DESIGN CRITERIA IS ACCEPTABLE; IF SUBMITTED EQUIPMENT IS COMPLIANT WITH THE RELATED PERFORMANCE SPECIFICATIONS, IS APPROVED BY THE CITY, AND CONTRACTOR MAKES THE REQUIRED CHANGES THROUGH SUBMITTAL PROCESS WITH SUPPORTING DOCUMENTS FOR THE CHANGES REQUIRED ALL OF THIS SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL MODIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND SHOWN IN AS BUILT DRAWINGS. THE SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFIED.
- WHERE ENVIRONMENT CONTAINS "GASES" SEAL ALL RACEWAYS ENTERING JUNCTION BOXES OR CONTROL PANELS. REFER TO THE DRAWINGS AND SPECIFICATIONS FOR DETAILS.
- ALL EQUIPMENT AND ENCLOSURE LOCATIONS ARE APPROXIMATE, BASED ON DESIGN EQUIPMENT. THE ULTIMATE EXACT LOCATIONS SHALL BE COORDINATED DURING CONSTRUCTION.
- EQUIPMENT, ENCLOSURES, TERMINAL AND JUNCTION BOX DIMENSIONS SHALL BE COORDINATED WITH ACCEPTED EQUIPMENT AND VERIFIED WITH EQUIPMENT SUPPLIERS.
- CORING OF ANY EXISTING STRUCTURE SHALL BE: XRAY RESEARCHED, SUBMITTED FOR ACCEPTANCE, AND COORDINATED WITH THE OWNER & STRUCTURAL ENGINEER.
- PROVIDE CONDUIT SEALS FOR CONDUIT PENETRATIONS AS PER NFPA 70 (NEC) AND NFPA 820.
- ALL STRUT (SLOTTED CHANNEL), WASHERS, SCREWS, NUTS, CONDUIT CLAMPS, ALL THREAD SPRING NUTS AND MISC. MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
- LIGHTING FIXTURES SHALL BE MOUNTED ACCORDING TO THE MOUNTING HEIGHT GIVEN ON THE DRAWINGS. THE MOUNTING HEIGHT SHALL BE MEASURED FROM THE BOTTOM OF THE LIGHTING FIXTURE TO THE FINISHED FLOOR.
- CONDUIT AND WIRE FOR THE HVAC EQUIPMENT, AND MISCELLANEOUS DEVICES, SHALL BE COORDINATED WITH HVAC REQUIREMENTS.
- ALL CONDULETS SHALL BE FORM 7 AND SHALL HAVE 316 SS CLAMP COVERS WITH 316 SS CLAMPS AND SCREWS. SCREW DOWN COVERS ARE UNACCEPTABLE. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- ALL BARE GROUNDING CONDUCTORS SHALL BE COPPER, ALL GROUND RODS SHALL BE 3/4" BY 10' LONG, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL EXPOSED COPPER GROUND CABLES SHALL BE GREEN INSULATED CONDUCTORS WITH XHHW INSULATION.

EARLY WORK GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY IN THE FIRST DAYS ON SITE; THE "AS FOUND" CONDITIONS OF ELECTRICAL EQUIPMENT. THE OPERATIONAL STATUS OF EXISTING EQUIPMENT (IS IT AVAILABLE FOR SERVICE) SHALL BE ESTABLISHED WITH OPERATIONS. SITE DUCT BANKS SHALL BE RESEARCHED FOR CONDUCTOR REMOVAL AND DEMOLITION. RESULTS OF THE RESEARCH AND CONTRACTIBILITY ASSURANCE SHALL BE SUBMITTED FOR ACCEPTANCE PRIOR TO ANY DISCONNECTIONS OR INSTALLATIONS. SEE AS FOUND DOCUMENTATION NOTES ON THIS SHEET.
- A "TEMPORARY POWER PLAN" SHALL BE CREATED BY THE CONTRACTOR IN COORDINATION WITH THE YARD PIPING PHASES, TEMPORARY PUMPING AND CHEMICAL TREATMENTS REQUIRED. THE DRAWINGS PROVIDE AN ACCEPTABLE MINIMUM OF TEMPORARY SERVICE ALLOWED. SUBMIT THE PLAN UNDER SPECIFICATION 16060 FOR ACCEPTANCE PRIOR TO ANY WORK BEING DONE ON THE SITE.
- A TEMPORARY SERVICE RACK SHALL BE CONSTRUCTED, AND A "TEMPORARY" SERVICE PROVIDED. CONTRACTOR SHALL PAY FOR AND COORDINATE WITH CPE (CENTERPOINT ENERGY) FOR THE TEMPORARY SERVICE. ALL TEMPORARY FACILITIES SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- TEMPORARY POWER IS TO BE ROUTED OVERHEAD, FROM THE TEMPORARY SERVICE RACK, TO THE WET WEATHER LIFT STATION. A 480V AND 120V POWER PANEL SHALL BE INSTALLED IN THE LIFT STATION ELECTRICAL ROOM, SEE PLANS FOR MORE INFORMATION. TEMPORARY SUMP PUMPS, A SAFE LEVEL OF VENTILATION, AND COMPLIANT CONSTRUCTION LIGHTING SHALL BE PROVIDED POWER AND CONTROL AS REQUIRED. MODIFICATIONS TO EXISTING EQUIPMENT MAY BE MADE, FOR TRANSITION TO TEMPORARY, IF CLEARLY DEFINED IN THE "TEMPORARY POWER PLAN". WET WEATHER STATION BUILDING EXTERIOR WALL PACK CIRCUITS SHALL BE PROVIDED TEMPORARY POWER AND CONTROL, TO KEEP THE SITE SAFELY LIT. THE TWO SUMP PUMP SYSTEMS ARE TO EACH HAVE THE CONTROLLERS LOCATED ON THE MOTOR LEVEL. ENSURE A SAFE WORKPLACE, ON THE SITE AND IN THE LIFT STATION BUILDING. ALL INDOOR LIGHTING AND VENTILATION SHALL BE IN ACCORDANCE WITH OSHA SAFE WORKPLACE REQUIREMENTS.
- COORDINATE WITH OTHERS TO PROVIDE ADEQUATE TEMPORARY POWER AND CONTROLS TO THE TEMPORARY ODOR CONTROL SYSTEM. EXISTING ELECTRICAL EQUIPMENT AND COMPONENTS THAT SERVE THE EXISTING FACILITY MAY BE UTILIZED FOR TEMPORARY OPERATION.
- THE DRY WEATHER STATION WILL BE REMOVED FROM SERVICE. BYPASS OPERATION MAY REQUIRE TEMPORARY POWER OR CONTROL EQUIPMENT. DEPENDENT ON CONTRACTOR'S TEMPORARY BYPASSING PLAN, SEQUENCE SCHEDULE, MEANS AND METHODS. DURING THE DRY WEATHER LIFT STATION WET WELL STRUCTURAL REHABILITATION ALL OF THE RELATED EXISTING ELECTRICAL SHALL BE REMOVED AND REPLACED.

AS FOUND DOCUMENTATION NOTES

- DO NOT START WORK OR MAKE ANY MODIFICATIONS TO EXISTING EQUIPMENT UNTIL THE FOLLOWING "AS FOUND" RECORD OF CONDITION HAS BEEN DONE:
 - THE OWNER AND CONTRACTOR SHALL WALK THE SITE TOGETHER WITNESS AND RECORD THE OPERATION CONDITION OF ALL THE EXISTING EQUIPMENT RELATED TO THIS PROJECT. THE CONTRACTOR SHALL NOTE ANY DEFECTS, DEFICIENCIES OR DEVIATIONS FROM THE DRAWINGS.
 - WRITTEN AND PHOTOGRAPHIC "AS FOUND" RECORD OF EXISTING CONDITIONS SHALL BE KEPT IN THE OWNER/CONTRACTOR TRAILER, FOR GENERAL INFORMATIONAL USAGE AND PROOF OF STATUS.
 - EXISTING CONCRETE EMBEDDED CONDUIT MAY BE USED FOR NEW CONDUCTORS WITH APPROVAL FROM THE OWNER/ENGINEER ON A CASE-BY-CASE BASIS.

PROJECT DEMOLITION AND REMOVAL NOTES

- THE EXISTING ELECTRIC SERVICE ENTRANCE DUCT BANK IS TO BE EXCAVATED AND CUT IN TWO PLACES, AT THE CPE TRANSFORMER AND WET WEATHER STATION, THEN RE-ROUTED THROUGH THE NEW ELECTRICAL BUILDING SERVICE EQUIPMENT.
- PROPOSED YARD PIPING WORK WILL REQUIRE DEMOLITION OF SOME OF THE EXISTING ELECTRICAL DUCT BANKS. EXISTING DUCT BANK SECTIONS THAT DO NOT REQUIRE REMOVAL MAY BE CONSIDERED FOR USAGE, SUBMIT AN RFI FOR PROPOSED WORK CONSIDERATION.
- THE DRY WEATHER STATION SHALL BE SHUT DOWN AND ALL ELECTRICAL ASPECTS REMOVED AND REPLACED. INCLUDING BUT NOT LIMITED TO; PUMPS, TERMINATION BOXES, CONDUCTORS, CONDUIT, LIGHTING, AND RELATED CONTROLS. SCADA AND CONTROL DEVICES ARE TO BE REMOVED AND REPLACED WITH ALL NEW EQUIPMENT.
- THE WET WEATHER STATION SHALL BE SHUT DOWN AND ALL ELECTRICAL ASPECTS REMOVED AND REPLACED. INCLUDING BUT NOT LIMITED TO; THE MAIN SWITCHGEAR, THE MOTOR CONTROL CENTERS, PANEL BOARDS, DISCONNECTS, TRANSFORMERS ALL CONDUCTORS, LIGHTING, HVAC, VENTILATION, AND RELATED CONTROLS. THE SITE SCADA CONTROL PANELS ARE TO BE REMOVED AND REPLACED WITH ALL NEW EQUIPMENT. THE LOWER (PUMP) LEVEL OF THE WET WEATHER STATION DRY WELL, HAS FLOODED MULTIPLE TIMES. IN ADDITION TO ALL THE CONDUCTORS, DEVICES, EXPOSED CONDUIT, SUPPORTS, AND ANCHORS BEING REMOVED AND REPLACED WITH NEW THE EXISTING SUMP PUMP POWER AND CONTROL CONNECTIONS ARE TO BE RELOCATED TO THE MOTOR LEVEL.
- SITE LIGHTING, ODOR CONTROL AND CHEMICAL SYSTEMS EQUIPMENT REMOVAL INCLUDES BUT IS NOT LIMITED TO; POLE TYPE SITE LIGHTING, DISCONNECTS, TERMINATION BOXES, CONTROL PANELS, GROUNDING SYSTEM AND MISCELLANEOUS ELECTRICAL EQUIPMENT. ALL DEVICES, ALL CONDUCTORS, ALL EXPOSED OUTDOOR CONDUIT, ALL SUPPORTS, AND ANCHORS ARE TO BE REMOVED AND REPLACED WITH NEW.
- THE DRAWINGS ILLUSTRATE THE ENGINEER'S INTENT AND GENERALLY SCOPE THE DEMOLITION WORK. FOR DRAWING CLARITY NOT ALL ITEMS TO BE REMOVED MAY BE SHOWN. ALL REMOVALS SHALL BE COORDINATED WITH OTHER TRADES AND THE CONSTRUCTION SCHEDULE.
- THE OWNER SHALL WALK THE SITE DEMOLITION, WITH THE CONTRACTOR, AND HAS FIRST RIGHT OF REFUSAL TO THE EQUIPMENT BEING REMOVED. THE CONTRACTOR SHALL DELIVER THE EQUIPMENT, THE OWNER WISHES TO RETAIN, TO THE LOCATION DESIGNATED BY THE OWNER IN THE SPECIFICATIONS.

WORK SCOPE GENERAL DESCRIPTION

- COORDINATE, SUBMIT, AND INSTALL COMPLETE TEMPORARY FACILITIES SYSTEMS TO SUPPORT; THE WET WEATHER STATION, REHABILITATION, THE CONTRACTOR'S CONSTRUCTION TEMPORARY, LIFT STATION BYPASS AND REQUIRED SYSTEMS. COMPLETELY REMOVE ALL TEMPORARY FACILITIES AFTER COMPLETION OF PROPOSED FACILITIES AND ACCEPTANCE OF THEM.
- THE PROPOSED ELECTRICAL BUILDING ELECTRICAL EQUIPMENT IS TO PROVIDE BOTH PORTABLE, AND PERMANENT GENERATOR CONNECTION CAPABILITY. IT WILL ALSO HOUSE NEW DRY WEATHER LIFT STATION ELECTRICAL AND SCADA EQUIPMENT. THE WET WEATHER STATION, NEW CHEMICAL FACILITY, NEW FLOW CONTROL STATION, NEW ODOR CONTROL FACILITY AND PROPOSED SITE LIGHTING SYSTEM SHALL ALSO BE FED FROM THE NEW ELECTRICAL BUILDING.
- SCADA SERVICE UNDERGROUND, TO THE SITE, IS TO BE EXCAVATED, INTERCEPTED AND ROUTED THROUGH THE NEW SCADA CONTROL PANEL IN THE NEW ELECTRICAL BUILDING.
- THE DRY WEATHER STATION SHALL BE PROVIDED A COMPLETE ELECTRICAL RESTORATION. ALL NEW PUMPS, CABLE SUPPORTS, SEALS, INSTRUMENTS, FLOATS, AND TERMINATION BOXES. ALL NEW EXPOSED CONDUIT, TAGS, SUPPORTS, FLEXIBLE FINAL CONNECTIONS, NAMEPLATES AND LABELS. THE NEW DRY WEATHER STATION LIFT PUMPS SHALL BE POWERED AND CONTROLLED FROM THE NEW ELECTRICAL BUILDING. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING, SCADA INTEGRATED, PUMP SYSTEM.
- THE WET WEATHER STATION SHALL BE PROVIDED A COMPLETE ELECTRICAL RESTORATION. ALL NEW SWITCHGEAR, MOTOR CONTROLLER EQUIPMENT, PANELBOARDS, TRANSFORMERS, HVAC STARTING EQUIPMENT, AND MISCELLANEOUS BUILDING IMPROVEMENTS. THE VERTICAL SHAFT DRIVEN PUMPS ARE TO BE REMOVED AND THE NEW DRY PIT SUBMERSIBLE PUMPS ARE TO BE RELOCATED. COORDINATE NEW CONDUIT EXACT ROUTE WITH MECHANICAL. DRY PIT SUBMERSIBLE FACTORY PUMP CABLE ROUTE AND SUPPORTS SHALL BE COORDINATED WITH STRUCTURAL AND MECHANICAL. NEW INSTRUMENTS, FLOATS, AND TERMINATION BOXES SHALL BE PROVIDED. ALL NEW EXPOSED CONDUIT, TAGS, SUPPORTS, FLEXIBLE FINAL CONNECTIONS, NAMEPLATES AND LABELS. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING, SCADA INTEGRATED, PUMP SYSTEM.
- NEW DUCT BANK SHALL SUPPLY THE PROPOSED CHEMICAL STORAGE AND FEED FACILITIES POWER AND CONTROL, FROM THE PROPOSED ELECTRICAL BUILDING. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING, SCADA INTEGRATED, CHEMICAL STORAGE AND FEED SYSTEM.
- NEW DUCT BANK SHALL FEED THE PROPOSED FLOW CONTROL STATION. IT SHALL IS TO BE PROVIDED WITH NEW MODULATING CONTROL VALVES, A FLOW METER AND ALL INSTRUMENTS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING, SCADA INTEGRATED, FLOW CONTROL STATION.
- NEW DUCT BANK SHALL FEED THE NEW ODOR CONTROL FACILITIES IS TO BE PROVIDED NEW DUCT BANK TO THE CONTROL BUILDING. AN EQUIPMENT RACK AND ODOR CONTROL PANEL ARE TO BE COORDINATED. THE EXISTING ODOR CONTROL SYSTEM IS TO BE REMOVED AND RELOCATED FOR TEMPORARY SERVICE, PROVIDE ALL TEMPORARY FOR THIS TASK EARLY.
- GENERAL SITE IMPROVEMENTS INCLUDE BUT ARE NOT LIMITED TO GROUNDING. TEST WELLS SHALL BE REMOVED AND REPLACED AS SHOWN. GROUNDING CABLE SYSTEM SHALL BE REPLACED THROUGH THE CONSTRUCTION PHASES. FENCE GROUNDING, TO THE PROPOSED FENCE SYSTEM SHALL BE PROVIDED ALL NEW HARDWARE. SITE LIGHTING INCLUDING BUT NOT LIMITED TO NEW LIGHTING CONTROL PANEL, NEW LED SITE LIGHT FIXTURES, WITH CONVENIENCE OUTLETS AS SHOWN.

NO.	DATE	REVISIONS	APP.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown. This signature not to be used for conflict verification.)
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved for AT&T TxD36 / SWBT underground conduit facilities only.
Signature valid for one year.

KGI

Kalluri Group, Inc.

16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)365-9288

PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01

DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

FB NO. XXXXXX

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STACY L. JORDAN
LICENSE NO. 148233

JANUARY 19, 2026

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1

LIFT STATION REHABILITATION

ELECTRICAL

CONSTRUCTION NOTES

WBS NUMBER

R-000267-127A-4

DRAWING SCALE

AS NOTED

CITY OF HOUSTON PM

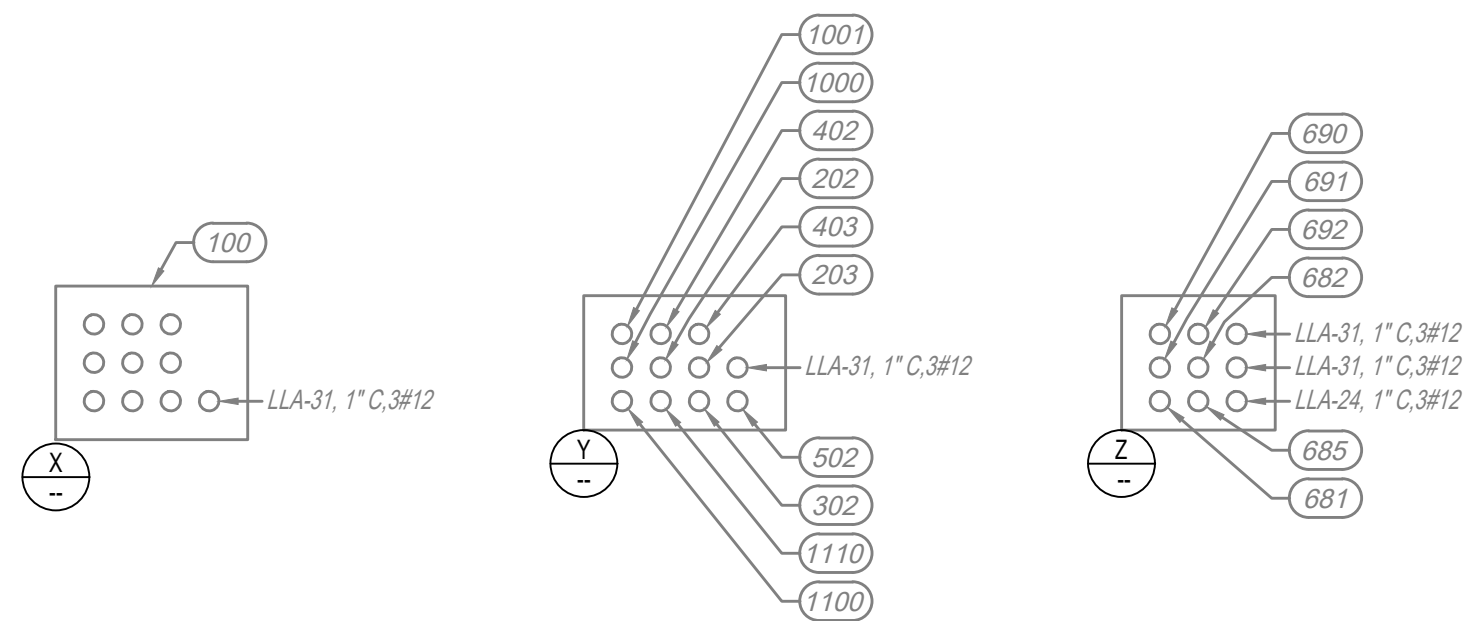
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FOR CITY OF HOUSTON USE ONLY

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SECTIONS

NONE

ELECTRICAL TASKS NOTES:

- GENERAL ELECTRICAL NOTES:

- [illegible]

PLAN

NO.	DATE	REVISIONS	APP.

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Signature valid for one year

KGI 
Kalluri Group, Inc.

16300 Katy Freeway, Suite 172
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Phone: (713)-365-9288
PROJECT 4285



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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

OVERALL SITE AND TEMPORARY PLAN

WBS NUMBER

R-000267-127A-4

DRAWING SCALE

AS NOTED

CITY OF HOUSTON PM

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DWG NO. 0-E-04

SHEET NO. XXX OF XX

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"S-TEMP" TEMPORARY SERVICE
PANELBOARD IS TO BE LOCATED ON A
RACK NEAR THE TEMPORARY ELECTRICAL
SERVICE

PANEL "S-TEMP"

BUS AMPS 400

MAIN BRKR. AMPS 400 WIRE SIZE 500 KCMIL

VOLTS 480/277 AIC 65 KA

PHASE 3 WIRE 4 SN ✓

NOTES:

1. PANEL ENCLOSURE SHALL BE NEMA 3R.

2. SOLID NEUTRAL AND GROUND BAR SHALL BE INSTALLED.

3. CIRCUIT SCHEDULE SHALL BE MAINTAINED.

400A

400A

CKT. DESCRIPTION	WIRE	LOAD	BKR.	A	B	C	BKR.	LOAD	WIRE	CKT. DESCRIPTION
WET WEATHER STATION	3/0	75000	200	1		2	50	6000	6	ODOR CONTROL
	3/0	75000		3		4		6		
	3/0	75000		5		6				
				7		8				
				9		10				
				11		12				

TOTAL VA = 81,000

81 KVA AT 3 PHASE 480V = 97.4 AMPS

THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE

ALL RATED PROPERLY TO SERVE THE LOAD

"H-TEMP" TEMPORARY PANELBOARD IS TO
BE LOCATED ON A RACK (NOT A WALL)
IN THE WET WEATHER STATION
ELECTRICAL ROOM

PANEL "H-TEMP"

BUS AMPS 200

MAIN BRKR. AMPS 200 WIRE SIZE 3/0 AWG

VOLTS 480/277 AIC 65 KA

PHASE 3 WIRE 3 SN ✓

NOTES:

1. PANEL ENCLOSURE SHALL BE NEMA 3R.

2. SOLID NEUTRAL AND GROUND BAR SHALL BE INSTALLED.

3. CIRCUIT SCHEDULE SHALL BE MAINTAINED.

200A

200A

CKT. DESCRIPTION	WIRE	LOAD	BKR.	A	B	C	BKR.	LOAD	WIRE	CKT. DESCRIPTION
EAST SUMP PUMPS	10	1500	30	1		2	30	1500	10	WEST SUMP PUMPS
	3				4	10				
	5				6	10				
TEMPORARY FRESH AIR BLOWER	8	27000	20	7		8	60	45000	6	XFMR "T-TEMP" (45kVA)
	8				10	6				
	8				11	12				
		28500						46500		

TOTAL VA = 75,000

75 KVA AT 3 PHASE 480V = 90.2 AMPS

THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE

ALL RATED PROPERLY TO SERVE THE LOAD

"OC-MPC" TEMPORARY MINI-POWER
CENTER PANELBOARD IS TO BE LOCATED
AT THE TEMPORARY ODOR CONTROL
EQUIPMENT RACK

PANEL "OC-MPC"

MAIN BRKR. AMPS 50

TRANSFORMER 15KVA

VOLTS 120/240 AIC 18 KA

PHASE 1 WIRE 2 SN ✓

NOTES:

1. PANEL ENCLOSURE SHALL BE NEMA 3R.

2. SOLID NEUTRAL AND GROUND BAR SHALL BE INSTALLED.

3. CIRCUIT SCHEDULE SHALL BE MAINTAINED.

50

80

CKT. DESCRIPTION	WIRE	LOAD	BKR.	1	2	BKR.	LOAD	WIRE	CKT. DESCRIPTION
ODOR CONTROL PANEL	12	400	20	1	2	20	400	12	LIGHTING
ODOR CONTROL BLOWER	8	5600	50	3	4	20	360	12	RECEPTACLES
SPARE	8			5	6	20			SPARE
SPACE			20	7	8	20			SPARE
				9	10				SPACE
				11	12				
				13	14				
				15	16				
				17	18				
				19	20				
				21	22				
				23	24				
				25	26				
		6000					760		

TOTAL VA = 6,760

6.8 KVA AT 240V = 28.3 AMPS

THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE

ALL RATED PROPERLY TO SERVE THE LOAD

"L-TEMP" TEMPORARY PANELBOARD IS TO
BE LOCATED ON A RACK (NOT A WALL)
IN THE WET WEATHER STATION
ELECTRICAL ROOM

PANEL "L-TEMP"

BUS AMPS 150

MAIN BRKR. AMPS 150 WIRE SIZE 1/0 AWG

VOLTS 208/120 AIC 10 KA

PHASE 3 WIRE 4 SN ✓

NOTES:

1. PANEL ENCLOSURE SHALL BE NEMA 3R.

2. SOLID NEUTRAL AND GROUND BAR SHALL BE INSTALLED.

3. CIRCUIT SCHEDULE SHALL BE MAINTAINED.

150

CKT. DESCRIPTION	WIRE	LOAD	BKR.	A	B	C	BKR.	LOAD	WIRE	CKT. DESCRIPTION
TEMPORARY LIGHTING	12	1600	20	1		2	20	1600	12	TEMPORARY LIGHTING
TEMPORARY LIGHTING	12	1600	20	3		4	20	1600	12	TEMPORARY LIGHTING
TEMPORARY LIGHTING	12	1600	20	5		6	20	1600	12	TEMPORARY LIGHTING
TEMPORARY RECEPTICALES	12	720	20	7		8	20	720	12	TEMPORARY RECEPTICALES
TEMPORARY RECEPTICALES	12	720	20	9		10	20	720	12	TEMPORARY RECEPTICALES
TEMPORARY RECEPTICALES	12	720	20	11		12	20	720	12	TEMPORARY RECEPTICALES
SPARE			20	13		14	20			SPARE
			20	15		16	20			
			20	17		18	20			
			20	19		20	20			
			20	21		22	20			
			20	23		24	20			
			20	25		26	20			
			20	27		28	20			
			20	29		30	20			
		6960						6960		

TOTAL VA = 13,920

13.92 KVA AT 240V = 33.5 AMPS

THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE

ALL RATED PROPERLY TO SERVE THE LOAD

NO.	DATE	REVISIONS	APP.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown. This signature not to be used for conflict verification.)
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

KGI

Kalluri Group, Inc.

16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

TBPE Registration No. F-665

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

FB NO. XXXXXX

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JANUARY 19, 2026
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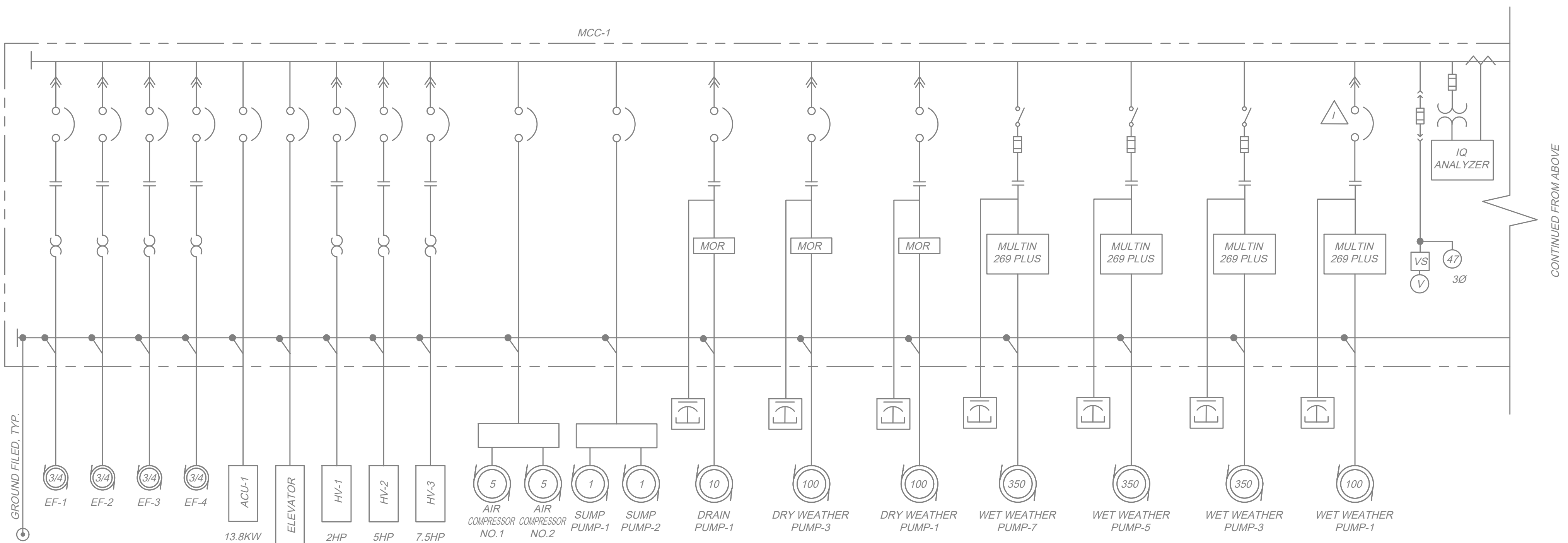
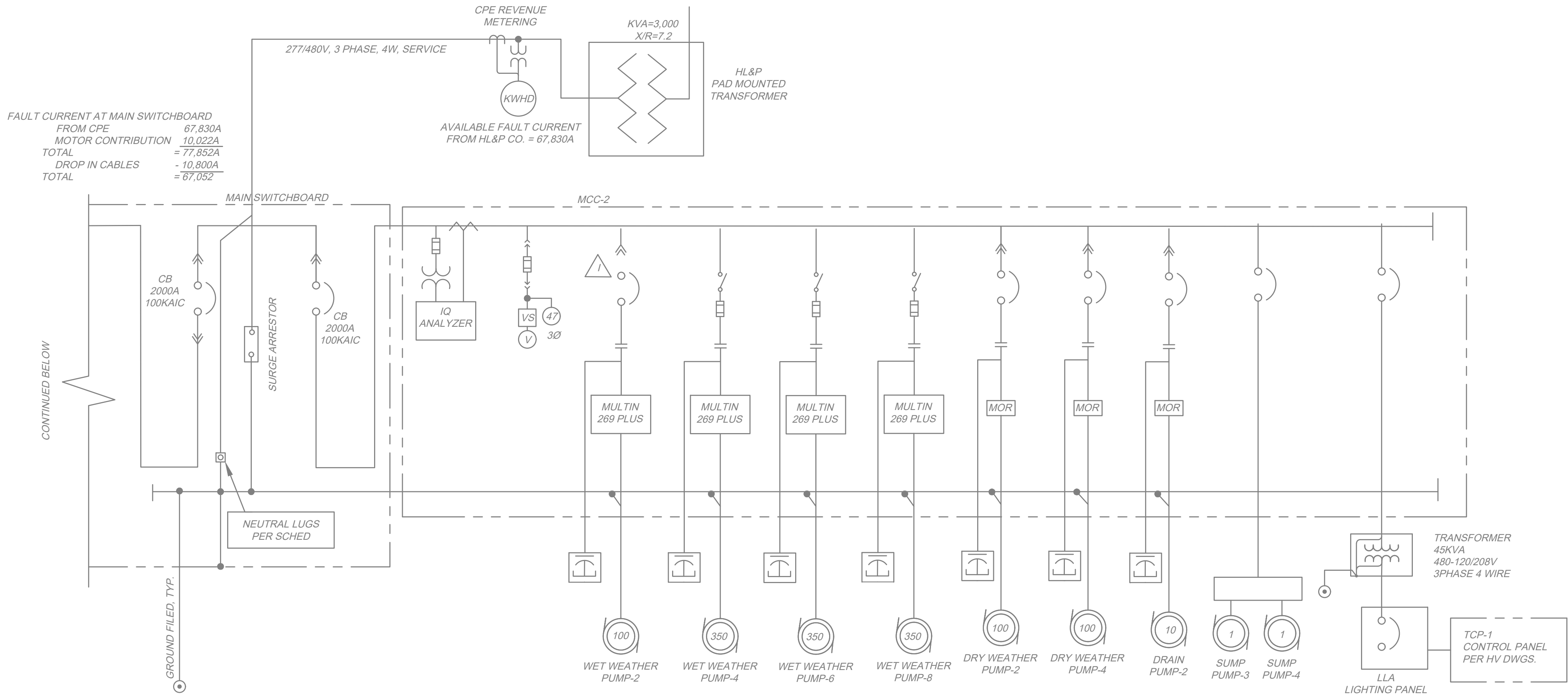
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

TEMPORARY PANELBOARD
SCHEDULES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-06	
SHEET NO. XXX OF XX	

D:\Kalluri Group, Inc\KGI - Documents\4285-QEL (Scott Street LS)\Drawings\Electrical\0-E-06 Temporary Panelboard Schedules.dwg



EXISTING OVERALL ONE LINE
DIAGRAM
NONE

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS OVERALL ONE LINE DIAGRAM ILLUSTRATES THE EXISTING ELECTRICAL SYSTEM. ALL OF THE ELECTRICAL EQUIPMENT IS TO BE REMOVED AND REPLACED. IT DOES NOT SHOW ALL EQUIPMENT TO BE REMOVED, AND IS SIMPLIFIED, IT PROVIDES FAMILIARITY WITH THE PROJECT.
- B. CONTRACTOR SHALL PROVIDE EXTENDED CONTINUOUS TEMPORARY POWER FOR, BUT NOT LIMITED TO; SITE ODOR CONTROL, SITE LIGHTING, WET WEATHER STATION INTERIOR LIGHTING, OSHA COMPLIANT DRY WELL VENTILATION, AND CONSTRUCTION TOOLS DURING THE BYPASS PUMPING POWER OUTAGES.
- C. THE EAST AND WEST DRY WELL SUMP PUMPS SHALL BE DISCONNECTED FROM EXISTING POWER AND PROVIDED TEMPORARY POWER.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285



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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

OVERALL ONE LINE DIAGRAM -
EXISTING

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-07	
SHEET NO. XXX OF XX	

TAG	DESCRIPTION	ROUTING		CONDUIT & WIRE SIZES
		FROM	TO	
A	MAIN BONDING JUMPER	MCC NEUTRAL	MCC GROUND	#4/0 CU
B	EQUIPMENT BONDING JUMPER	MCC GROUND	MCC ENCLOSURE	#4/0 CU
100	SERVICE ENTRANCE	HL&LP SERVICE	MOTOR CONTROL CENTER	3 #750 MCM, #2/0 NEUT & #2/0 GND IN EA OF 9 - 4" RGS
101	LIGHTING DOWN LEAD, TYP	LIGHTNING ARRESTOR	LIGHTNING GROUND FIELD	#2/0 LIGHTING DOWN LEAD
102	TELEPHONE SERVICE	SWB SERVICE (35 KV TERMINAL POLE)	TELEP-ONE TERMINAL CABINET	2" PVC RGS - TELEPHONE
200	DRY WEATHER PUMP NO.1 POWER	DRY WEATHER PUMP NO.1	PUMP NO.1 TERMINAL CABINET	3/C #2/0 8, #6 GND CABLE-3 PVC RGS PER PUMP MFG CABLE SIZE
201	DRY WEATHER PUMP NO.1 CONTROLS	DRY WEATHER PUMP NO.1	PUMP NO.1 TERMINAL CABINET	9/C #14 (8 CONTROL - GND)1 1/2PVC RGS NOTES2
202	DRY WEATHER PUMP NO.1 POWER	DRY WEATHER PUMP NO.1 TERMINAL CABINET	PUMP STARTER	3 #2/0 & #6 GND- 3" RGS
203B	DRY WEATHER PUMP NO.1 CONTROLS	TERMINAL CABINET	PUMP STARTER	7 #14 (4 CONTROL, 1 GND & 2 SPARE)-1" PVC GRGS
204	DRY WEATHER PUMP NO.1 CONTROLS	STARTER N MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	1 SHIELDED PAR #16- 3/4" RGS
205	DRY WEATHER PUMP NO.1 CONTROLS	STARTER N MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	20#14 (4 SPARE), 2 #12(CT) & #14 GND - 1 1/2" PVC RGS
206	DRY WEATHER PUMP NO.1 CAPACITOR	DRY WEATHER PUMP NO.1 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #4 & #6 GND CABLE- 1" RGS
207	COMBINED CURRENT TRANSMITTERS	MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	3 2/C SIG CABLE - 1"RGS
300	DRY WEATHER PUMP NO.2 POWER	DRY WEATHER PUMP NO.2	PUMP NO.2 TERMINAL CABINET	3/C #2/0 & #6 GND CABLE - 3" PVC RGS NOTE 2
301	DRY WEATHER PUMP NO.2 CONTROLS	DRY WEATHER PUMP NO.2	PUMP NO.2 TERMINAL CABINET	9/C #14 (8 CONTROL + GND)-1 1/2" PVC RGS NOTE2
302	DRY WEATHER PUMP NO.2 POWER	DRY WEATHER PUMP NO.2 TERMINAL CABINET	PUMP STARTER	3 #2/0 & #6 GND - 3" RGS
303	DRY WEATHER PUMP MAIN-CONTROLS	172-LCP-1 CONTROL PANEL	PT-172-01,PT-172-02	2 SH. PR. #16-1" PVC RGS
304	DRY WEATHER PUMP NO.2 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	1 SHIELED PAIR #16 - 3/4" RGS
305	DRY WEATHER PUMP NO.2 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	20 #14(4 SPARE #12(CT) & #14 GND - 1 1/2" PVC RGS)
306	DRY WEATHER PUMP NO.2 CAPACITOR	DRY WEATHER PUMP NO.2 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #4 & #6 GND CABLE - 1" RGS
400	DRY WEATHER PUMP NO.3 POWER	DRY WEATHER PUMP NO.3	PUMP NO.3 TERMINAL CABINET	3/C #2/0 & #6 GND CABLE - 3" PVC RGS NOTE 2
401	DRY WEATHER PUMP NO.3 CONTROLS	DRY WEATHER PUMP NO.3	PUMP NO.3 TERMINAL CABINET	9/C #14(8 CONTROL - GND) - 1 1/2" PVC RGS NOTE 2
402	DRY WEATHER PUMP NO.3 POWER	DRY WEATHER PUMP NO.3 TERMINAL CABINET	PUMP STARTER	3 #2/0& #6 GND - 3 " RGS
403A	DRY WEATHER PUMP NO.3 CONTROLS	TERMINAL CABINET	PUMP STARTER	7 #14 (4 CONTROL, 1 GND & 2 SPARE)- 1" PVC RGS
404	DRY WEATHER PUMP NO.3 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	1 SHIELDED PAIR #16 - 3/4" RGS
405	DRY WEATHER PUMP NO.3 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	20 #14 (4 SPARE), 2 #12(CT) & #14 GND - 1 1/2" PVC RGS
406	DRY WEATHER PUMP NO.3 CAPACITOR	DRY WEATHER PUMP NO.3 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #6 & #8 GND CABLE - 1" RGS
500	DRY WEATHER PUMP NO.4 POWER	DRY WEATHER PUMP NO.4	PUMP NO.4 TERMINAL CABINET	3/C #2/0 & #6 GND CABLE - 3" PVC RGS NOTE 2
501	DRY WEATHER PUMP NO.4 CONTROLS	DRY WEATHER PUMP NO.4	PUMP NO.4 TERMINAL CABINET	9/C #14 (8 CONTROL + GND)- 1 1/2" PVC RGS
502	DRY WEATHER PUMP NO.4 POWER	DRY WEATHER PUMP NO.4 TERMINAL CABINET	PUMP STARTER	3 #2/0 & #6 GND - 3" RGS
503	NOT USED			NOT USED
504	DRY WEATHER PUMP NO.4 CONTROLS	STARTER N MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	1 SHIELED PAIR #16 - 3/4" RGS
505	DRY WEATHER PUMP NO.4 CONTROLS	STARTER N MOTOR CONTROL CENTER	172-LCP-1 CONTROL PANEL	20 #14 (4 SPARE, 2 #12(CT) & #14 GND - 1 1/2" PVC RGS)
506	DRY WEATHER PUMP NO.4 CAPACITOR	DRY WEATHER PUMP NO.4 MOTOR STARTER	POWER FACTOR CORRECTION CAPCITOR	3/C #4 & #6 GND CABLE - 1" RGS
600	LIGHTING PANEL FEEDER	MOTOR CONTROL CENTER	LIGHTING TRANSFORMER	3 #2 & #4 GND - 1 1/4" RGS
601	LIGHTING PANEL GROUND	LIGHTING PANEL	GROUND FIELD	#4 GND - 1" RGS
602	LIGHTING TRANSFORMER	LIGHTING TRANSFORMER	LIGHTING PANEL	3 #1/0, #2 GND - 1 1/2" RGS
605	SUMP PUMPS CONTROL PANEL-1	MOTOR CONTROL CENTER	SUMP PUMPS CONTROL PANEL-1 & PUMPS 1 & 2	20 #14 (4 SPARE, 2 #12(CT) & #14 GND - 1 1/2" PVC RGS)
610	SUMP PUMPS CONTROL PANEL-2	MOTOR CONTROL CENTER	SUMP PUMPS CONTROL PANEL-1 & PUMPS 3 & 4	3/C #4 & #6 GND CABLE - 1" RGS
203A	DRY WEATHER PUMP NO.2 CONTROLS	TERMINAL CABINET	PUMP STARTER	7 #14(4 CONTROL, 1 GND,& 2 SPARE)- 1 PVC/RGS
403B	DRY WEATHER PUMP NO.4 CONTROLS	TERMINAL CABINET	PUMP STARTER	7 #14(4 CONTROL, 1 GND,& 2 SPARE)- 1 PVC/RGS
615	DRAIN PUMP-1 POWER	MOTOR CONTROL CENTER	DRAIN PUMP-1	3 #12 & #12 GND - 1" RGS
616	DRAIN PUMP-1 CONTROL	MOTOR CONTROL CENTER	DRAIN PUMP-1 & -S-172-13	6 #14 & #14 GND - 1" RGS
617	DRAIN PUMP-1 CONTROL	MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	15 #14 (4 SPARE),& #14 GND - 14/2" PVC RGS
618	DRAIN PUMP-1 CONTROL	MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	1 SHIELED PAIR #16 - 3/4" RGS
620	DRAIN PUMP-2 POWER	MOTOR CONTROL CENTER	DRAIN PUMP-2	3 #12 & #12 GND - 1" RGS
621	DRAIN PUMP-2 CONTROL	MOTOR CONTROL CENTER	DRAIN PUMP-2 & HS-172-14	6 #14 & #14 GND - 1" RGS
622	DRAIN PUMP-2 CONTROL	MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	15 #14 (4 SPARE),& #14 GND - 14/2" PVC RGS
623	DRAIN PUMP-2 CONTROL	MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	1 SHIELED PAIR #16 - 3/4" RGS
625	AIR COMPRESSORS CONTROL PANEL	MOTOR CONTROL CENTER	AIR COMPRESSORS CONTROL PANEL	3 #10 & #10 GND - 1" RGS
630	ELEVATOR	MOTOR CONTROL CENTER	ELEVATOR	3 #6 & #8 GND - 1 1/2" RGS
631				
635	TOP-1 CONTROL	MOTOR CONTROL CENTER	TOP-1	20#14 & #

NO.	DATE	REVISIONS	APP.

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VERIFICATION OF PRIVATE UTILITY LINES	
Date:	
CenterPoint Energy natural gas utilities shown. (Gas services lines are not shown). This signature not to be used for conflict verification.	
Signature Valid for six months.	
Date:	
CenterPoint Energy / UNDERGROUND Electrical Facilities Verification Only. (This Signature verifies existing underground facilities - not to be used for conflict verification.)	
Signature Valid for six months.	
Date:	
Approved for AT&T Texas / SWBT underground conduit facilities only. Signature valid for one year.	
<div> Kalluri Group, Inc.</div>	<div>BTPE Registration No. F-665 16300 Katy Freeway, Suite 172 Houston, Texas 77094 Phone: (713)-365-9288 PROJECT 4285</div>
<div></div> <div>Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337</div>	
JOB NO: 00050-0099-01	DATE: 1/19/2026
APPROVED BY:	<div>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</div> <div>STACY L. JORDAN LICENSE NO. 148233 JANUARY 19, 2026</div> <div>IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</div>
DATE:	
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FB NO. XXXXXX	

<h1 style="text-align: center;">CITY OF HOUSTON</h1> <p style="text-align: center;">HOUSTON PUBLIC WORKS</p>	
<p>SCOTT STREET NO. 1</p> <p>LIFT STATION REHABILITATION</p> <p>ELECTRICAL</p> <p>CONDUIT & CONDUCTOR SCHEDULE</p> <p>SHEET 1 - EXISTING</p>	
<p>WBS NUMBER</p> <p>R-000267-127A-4</p> <p>DRAWING SCALE</p> <p>AS NOTED</p> <p>CITY OF HOUSTON PM</p> <p>TAHA LOTIA</p> <p>DWG NO. 0-E-08</p> <p>SHEET NO. XXX OF XX</p>	<p>FOR CITY OF HOUSTON USE ONLY</p>

TAG	DESCRIPTION	ROUTING		CONDUIT & WIRE SIZES
		FROM	TO	
686	CHEMICAL FEED SYSTEM - CONTROL	LIT-172-01	LIT-172-01	1 SHIELD PAIRS #16-1" PVC RGS
687	CHEMICAL FEED SYSTEM - CONTROL	LIT-172-02	LIT-172-02	1 SHIELD PAIRS #16-1" PVC RGS
688	CHEMICAL FEED SYSTEM - CONTROL	LIT-172-03	LIT-172-03	1 SHIELD PAIRS #16-1" PVC RGS
690	CHEMICAL FEED SYSTEM - POWER	172-LCP-1 CONTROL PANEL (DWCP)	CHEMICAL FEED PUMP PANEL 3X	#12 & #12 GND (2H+1N+1G)(PUMP 1 & 2 POWER)
691	CHEMICAL FEED SYSTEM - CONTROL	172-LCP-1 CONTROL PANEL (DWCP)	LIT-172-01,02,03	(SPARE)
692	CHEMICAL FEED SYSTEM - CONTROL	172-LCP-1 CONTROL PANEL (DWCP)	CHEMICAL FEED PUMP PANEL	(SPARE)
900	INTRUSION ALARM	DOOR LIMIT SWITCH	172-LCP-2 CONTROL PANEL	2 #14 & #14 GND - 1"RGS
901	VOLTAGE MONITOR RELAY	MOTOR CONTROL CENTER-2	172-LCP-1 CONTROL PANEL	4 #14 & #14 GND - 1"RGS
902	FORCE MAIN HIGH PRESSURE	PSH-172-01	172-LCP-2 CONTROL PANEL	2-16/2TS CABLES 1" RGS RFI-BE-07
903	VOLTAGE MONITOR RELAY	MOTOR CONTROL CENTER-1	172-LCP-2 CONTROL PANEL	4 #14 & #14 GND - 1"RGS
1000	AIR CELL TUBING	172-LCP-1 CONTROL PANEL	AIR CELL NO.1	2" PVC RGS AIR TUBING
1001	AIR CELL TUBING	172-LCP-1 CONTROL PANEL	AIR CELL NO.2	2" PVC RGS AIR TUBING
1002	AIR CELL TUBING	172-LCP-2 CONTROL PANEL	AIR CELL NO.1	2" PVC RGS AIR TUBING
1003	AIR CELL TUBING	172-LCP-2 CONTROL PANEL	AIR CELL NO.2	2" PVC RGS AIR TUBING
1100	FUTURE SPACE - TO FIELD	MOTOR CONTROL CENTER	PUMP NO.1 TERMINAL CABINET	1" PVC RGS (SPARE)
1101	NOT USED			NOT USED
1110	NOT USED			NOT USED
1200	FUTURE SPACE - TO FIELD	MOTOR CONTROL CENTER	PUMP NO.2 TERMINAL CABINET	(SPARE)
1201	NOT USED			NOT USED
2100	WET WEATHER PUMP NO.1 POWER	WET WEATHER PUMP NO.1	PUMP STARTER IN MCC	3 #2/0 & #6 GND - 3" RGS
2101	WET WEATHER PUMP NO.1 CONTROLS	WET WEATHER PUMP NO.1 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2102	WET WEATHER PUMP NO.1 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2103	WET WEATHER PUMP NO.1 CONTROLS	WET WEATHER PUMP NO.1	PUMP STARTER & MULTILIN RELAY IN MCC	7/C #18 SHIELDED TRIADS -3" RGS
2104	WET WEATHER PUMP NO.1 CAPACITOR	WET WEATHER PUMP NO.1 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2105	WET WEATHER DSCH VLV. NO.1-CONTROLS	172-LCP-2	172-CV-05	6#14 & #14 GND-1" RGS
2200	WET WEATHER PUMP NO.2 POWER	WET WEATHER PUMP NO.2	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2201	WET WEATHER PUMP NO.2 CONTROLS	WET WEATHER PUMP NO.2 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2202	WET WEATHER PUMP NO.2 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2203	WET WEATHER PUMP NO.2 CONTROLS	WET WEATHER PUMP NO.2	PUMP STARTER & MULTILIN RELAY IN MCC	7/C #18 SHIELDED TRIADS -3" RGS
2204	WET WEATHER PUMP NO.2 CAPACITOR	WET WEATHER PUMP NO.2 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2205	WET WEATHER DSCH VLV. NO.2-CONTROLS	172-LCP-2	172-CV-06	6#14 & #14 GND-1" RGS
2300	WET WEATHER PUMP NO.3 POWER	WET WEATHER PUMP NO.3	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2301	WET WEATHER PUMP NO.3 CONTROLS	WET WEATHER PUMP NO.3 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2302	WET WEATHER PUMP NO.3 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2303	WET WEATHER PUMP NO.3 CONTROLS	WET WEATHER PUMP NO.3	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2304	WET WEATHER PUMP NO.3 CAPACITOR	WET WEATHER PUMP NO.3 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2305	WET WEATHER DSCH VLV. NO.3-CONTROLS	172-LCP-2	172-CV-07	6#14 & #14 GND-1" RGS
2400	WET WEATHER PUMP NO.4 POWER	WET WEATHER PUMP NO.4	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2401	WET WEATHER PUMP NO.4 CONTROLS	WET WEATHER PUMP NO.4 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2402	WET WEATHER PUMP NO.4 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2403	WET WEATHER PUMP NO.4 CONTROLS	WET WEATHER PUMP NO.4	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2404	WET WEATHER PUMP NO.4 CAPACITOR	WET WEATHER PUMP NO.4 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2405	WET WEATHER DSCH VLV. NO.4-CONTROLS	172-LCP-2	172-CV-08	6#14 & #14 GND-1" RGS
2500	WET WEATHER PUMP NO.5 POWER	WET WEATHER PUMP NO.5	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2501	WET WEATHER PUMP NO.5 CONTROLS	WET WEATHER PUMP NO.5 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2502	WET WEATHER PUMP NO.5 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2503	WET WEATHER PUMP NO.5 CONTROLS	WET WEATHER PUMP NO.5	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2504	WET WEATHER PUMP NO.5 CAPACITOR	WET WEATHER PUMP NO.5 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2505	WET WEATHER DSCH VLV. NO.5-CONTROLS	172-LCP-2	172-CV-09	6#14 & #14 GND-1" RGS
2600	WET WEATHER PUMP NO.6 POWER	WET WEATHER PUMP NO.6	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2601	WET WEATHER PUMP NO.6 CONTROLS	WET WEATHER PUMP NO.6 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2602	WET WEATHER PUMP NO.6 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2603	WET WEATHER PUMP NO.6 CONTROLS	WET WEATHER PUMP NO.6	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2604	WET WEATHER PUMP NO.6 CAPACITOR	WET WEATHER PUMP NO.6 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2605	WET WEATHER DSCH VLV. NO.6-CONTROLS	172-LCP-2	172-CV-10	6#14 & #14 GND-1" RGS
2700	WET WEATHER PUMP NO.7 POWER	WET WEATHER PUMP NO.7	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2701	WET WEATHER PUMP NO.7 CONTROLS	WET WEATHER PUMP NO.7 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2702	WET WEATHER PUMP NO.7 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2703	WET WEATHER PUMP NO.7 CONTROLS	WET WEATHER PUMP NO.7	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2704	WET WEATHER PUMP NO.7 CAPACITOR	WET WEATHER PUMP NO.7 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2705	WET WEATHER DSCH VLV. NO.7-CONTROLS	172-LCP-2	172-CV-11	6#14 & #14 GND-1" RGS
2800	WET WEATHER PUMP NO.8 POWER	WET WEATHER PUMP NO.8	PUMP STARTER IN MCC	3 #350 MCM & #2/0 GND IN EA OF 2 - 3" RGS
2801	WET WEATHER PUMP NO.8 CONTROLS	WET WEATHER PUMP NO.8 & LOCKOUT SWITCH	PUMP STARTER IN MCC	22 #14 ,#14 GND - 1 1/2" RGS
2802	WET WEATHER PUMP NO.8 CONTROLS	STARTER IN MOTOR CONTROL CENTER	172-LCP-2 CONTROL PANEL	22 #14 (4 SPARE),2#12(CT) & #14 GND - 1 1/2" RGS
2803	WET WEATHER PUMP NO.8 CONTROLS	WET WEATHER PUMP NO.8	PUMP STARTER & MULTILIN RELAY IN MCC	8/C #18 SHIELDED TRIADS -3" RGS
2804	WET WEATHER PUMP NO.8 CAPACITOR	WET WEATHER PUMP NO.8 MOTOR STARTER	POWER FACTOR CORRECTION CAPACITOR	3/C #2/0 & #6 GND - 2" RGS
2805	WET WEATHER DSCH VLV. NO.8-CONTROLS	172-LCP-2	172-CV-12	6#14 & #14 GND-1" RGS

NO.	DATE	REVISIONS	APP.

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KGI

Kalluri Group, Inc.

✓

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas - 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01

DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

CONDUIT & CONDUCTOR SCHEDULE
SHEET 2 - EXISTING

WBS NUMBER

R-000267-127A-4

DRAWING SCALE

AS NOTED

CITY OF HOUSTON PM

TAHA LOTIA

DWG NO. 0-E-09

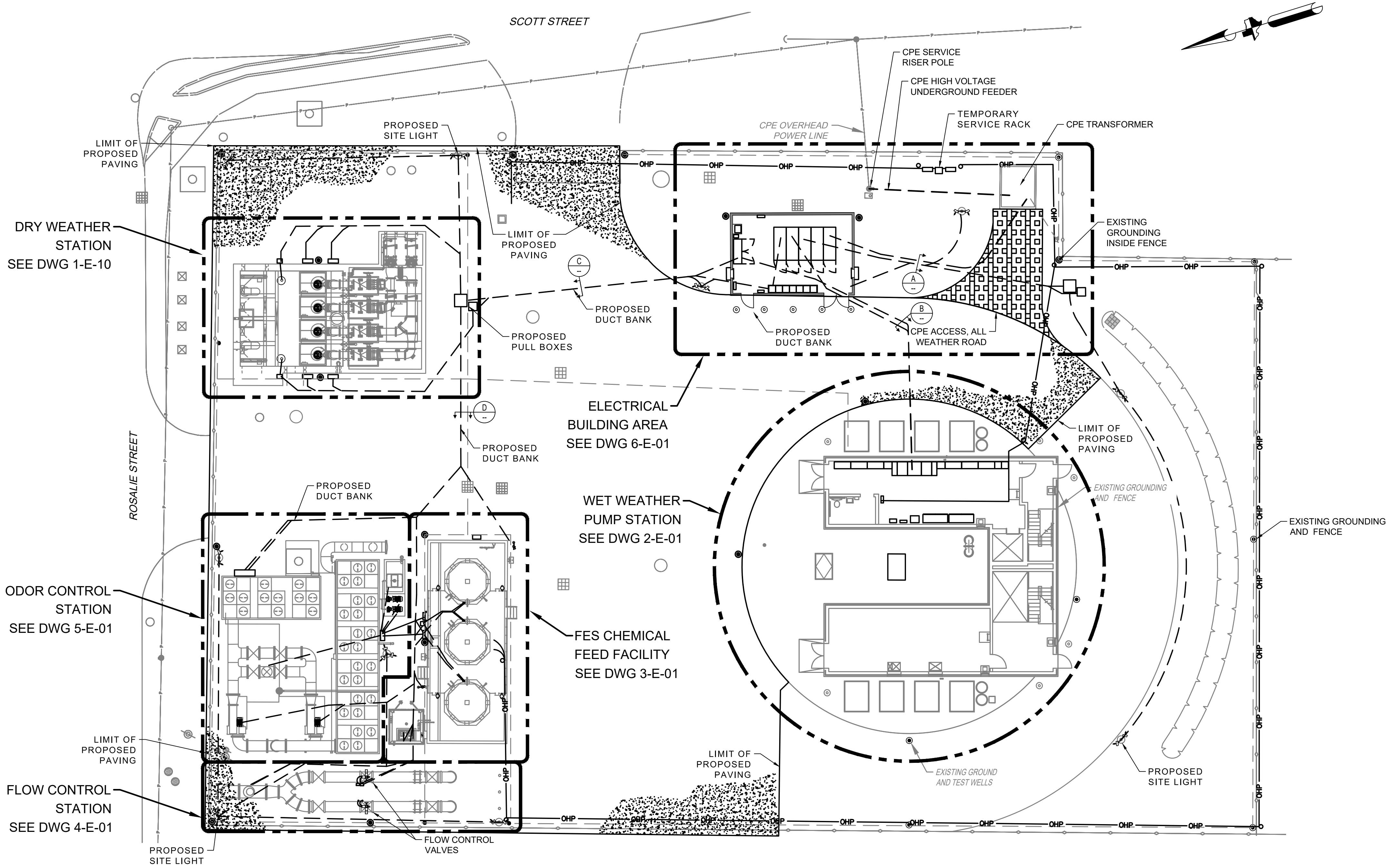
SHEET NO. XXX OF XX

FOR CITY OF HOUSTON USE ONLY

D:\Kalluri Group, Inc\KGI - Documents\4285-QEL (Scott Street LS)\Drawings\Electrical\0-E-09 Conduit Schedule Sheet 2 - Existing.dwg

GENERAL ELECTRICAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE PROPOSED SITE AND DESCRIBES RELATED WORK AREAS, WITH ENLARGED DRAWING NUMBERS. CONCRETE ENCASED DUCT BANKS ARE SHOWN IN SLAB CONDUIT RUNS ARE NOT, FOR CLARITY. IT ALSO SHOWS THE DESIGN LIMITS OF NEW SITE PAVING AND FACILITIES EXPECTED TO REMAIN, IN THIS PROJECT. SEE DIVISION 16 SPECIFICATIONS FOR ALL PROPOSED WORK AND EQUIPMENT REQUIREMENTS.
- B. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CPE OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CPE STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.
- C. TEMPORARY PROVISIONS ARE TO REMAIN IN SERVICE WHILE PROPOSED WORK, INCLUDING POWER, CONTROLS, SCADA AND COMMUNICATIONS, IS TESTED AND ACCEPTED.



PROPOSED OVERALL SITE
PLAN
1" = 15'-0"

NO.	DATE	REVISIONS	APP.

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CITY OF HOUSTON HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

OVERALL SITE PLAN - PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-10	
SHEET NO. XXX OF XX	

EQUIPPED SPACE	MCC-1 FEEDER	METERING AND	UTILITY SERVICE MAIN BREAKER	EQUIPPED SPACE
MCC-2 FEEDER	PORTABLE GENSET CONNECTION	PERMANENT GENSET CONNECTION	SURGE PROTECTIVE DEVICE	HOUSE POWER FEEDER

PROPOSED MAIN SWITCHGEAR

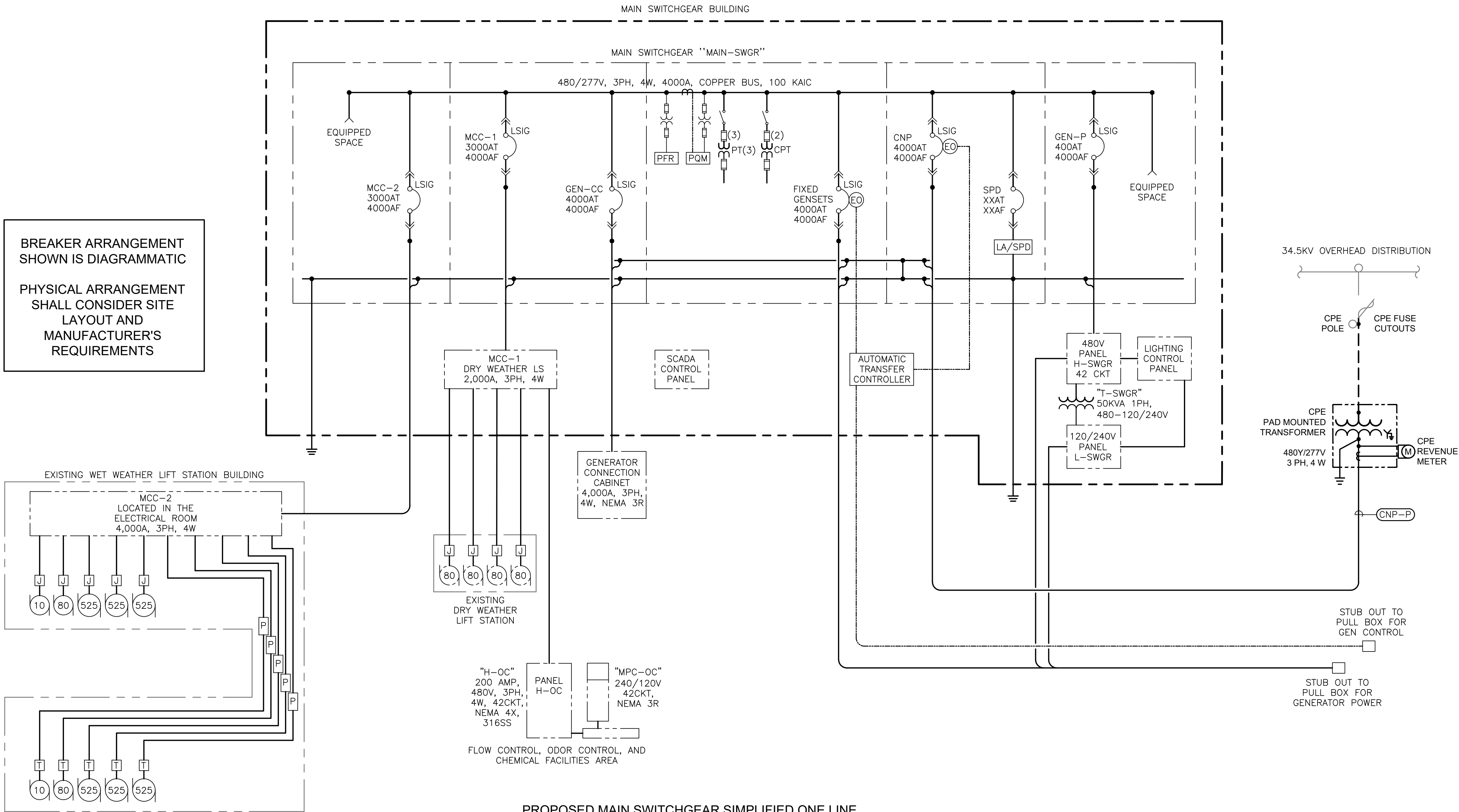
ELEVATION

NONE

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE PROPOSED ELECTRICAL POWER DISTRIBUTION SCHEME.
- B. THE ELECTRICAL BUILDING EQUIPMENT IS DESIGNED AROUND EATON BRAND, MAGNUM BREAKER SERIES SWITCHGEAR, WITH MAINTENANCE BYPASS SWITCHES.
- C. THE MAIN-SWITCHGEAR SHALL BE CAPABLE OF A PORTABLE GENERATOR CONNECTION WITH HAND OPERATION, WITH PERMANENT GENERATOR AND UTILITY CONNECTION. AUTOMATIC TRANSFER OPERATION SHALL BE PROVIDED BY A BREAKER CONTROLLER, TO TRANSFER LOAD TO THE AVAILABLE POWER SOURCE.
- D. THE PROPOSED DRY WEATHER LIFT STATION MCC-1 AND WET WEATHER WEATHER MCC-2 SHALL BE NEMA 12 ENCLOSED.

NO.	DATE	REVISIONS	APP.



PROPOSED MAIN SWITCHGEAR SIMPLIFIED ONE LINE

DIAGRAM

NONE

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

OVERALL ONE LINE DIAGRAM - PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-11	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.

MCC-1 LOAD CALCULATIONS

SECTION A LOAD DESCRIPTION	CONNECTED KVA	CONNECTED AMPS
WET WEATHER PUMP 1 – 80 HP	77.7	93.5
WET WEATHER PUMP 2 – 80 HP	77.7	93.5
WET WEATHER PUMP 3 – 80 HP	77.7	93.5
WET WEATHER PUMP 4 – 80 HP	77.7	93.5
PANELBOARD H-OC	48.2	58.0
LOAD TOTAL	359	423

THE CONNECTED 1610.6 KVA AT 480 VOLTS = 1937.5 AMPS, THE MCC-2A FEEDER BREAKER IS RATED 2000 AMPS AND IS SUFFICIENT FOR THE MCC-2A SECTION.

MCC-2 LOAD CALCULATIONS

SECTION A LOAD DESCRIPTION	CONNECTED KVA	CONNECTED AMPS
WET WEATHER PUMP 1 – 80 HP	77.7	93.5
WET WEATHER PUMP 3 – 525 HP	507.1	610
WET WEATHER PUMP 5 – 525 HP	507.1	610
WET WEATHER PUMP 7 – 525 HP	507.1	610
DRAIN PUMP 1 – 10 HP	11.6	14
SECTION 2A LOAD	1610.6	1937.5

THE RUNNING LOAD = 1937.5 AMPS, THE MCC-2A FEEDER BREAKER IS RATED 2000 AMPS AND IS SUFFICIENT FOR THE MCC-2A SECTION.

SECTION B LOAD DESCRIPTION	CONNECTED KVA	CONNECTED AMPS
WET WEATHER PUMP 2 – 80 HP	77.7	93.5
WET WEATHER PUMP 4 – 525 HP	507.1	610
WET WEATHER PUMP 6 – 525 HP	507.1	610
WET WEATHER PUMP 8 – 525 HP	507.1	610
DRAIN PUMP 2 – 10 HP	11.6	14
PANELBOARD H-WW	70.6	85
SECTION 2B LOAD	1681.2	2022.5

THE RUNNING LOAD = 1412.5 AMPS, THE MCC-2B FEEDER BREAKER IS RATED 2000 AMPS AND IS SUFFICIENT FOR THE MCC-2B SECTION.

	CONNECTED KVA	CONNECTED AMPS
MCC-2 TOTAL LOAD	3291.8	3960

THE MCC-2 RUNNING LOAD = 3350 AMPS, THE MCC-2 FEEDER CABLES AND MAIN SWITCHGEAR FEEDER BREAKER ARE SUFFICIENT FOR THE MCC-2 LOADS.

MAIN SWITCHGEAR LOAD ANALYSIS

SECTION B LOAD DESCRIPTION	CONNECTED KVA	CONNECTED AMPS
DRY WEATHER PUMP STATION MCC-1	359	423
WET WEATHER PUMP STATION MCC-2	3291.8	3960
PANELBOARD H-EB	124.7	85
CONNECTED SUBTOTAL	3775.5	4468
25% OF LARGEST MOTOR LOAD	126.7	152.5
CALCULATED NEC LOAD	3902.2	4620.5

THE MAIN SWITCHGEAR RUNNING LOAD = 3926 AMPS, THE SWITCHGEAR IS RATED 5000 AMP. THE 9 SETS OF 750 KCMIL FEEDER CABLES ARE RATED 4275 AMPS. AND THE MAIN BREAKER IS SET TP 4250 AMPS (5000 @ .85). ALL ASPECTS OF THE SERVICE ARE SUFFICIENT FOR THE LOADS.

RUNNING KVA	RUNNING AMPS
281.3	338.5
2784.7	3350
85	85
3151	3773.5
	152.5
3151	3926

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Phone: (713)-365-9288
PROJECT 4285

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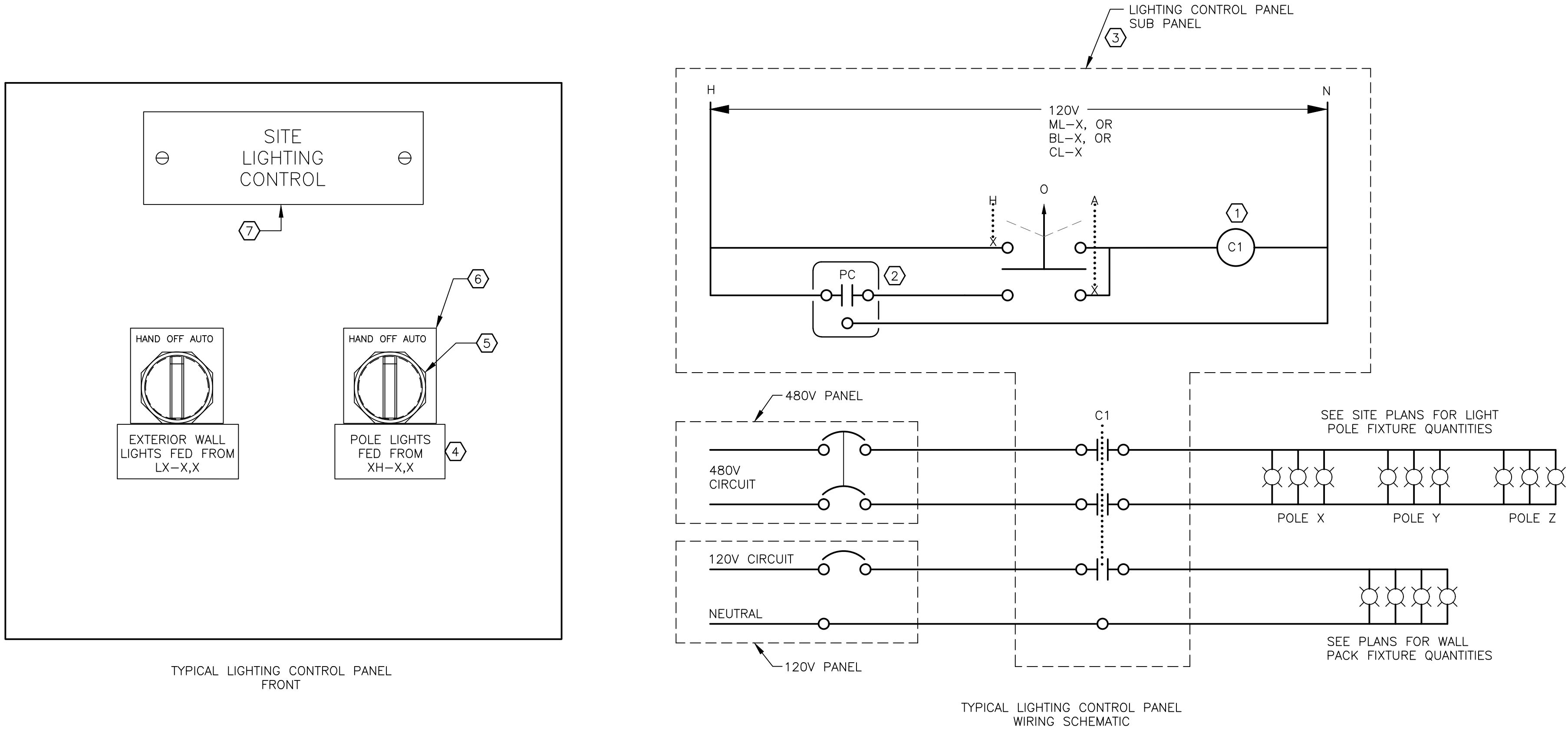
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

OVERALL LOAD ANALYSIS -
PROPOSED

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NOTES:

- 1 PROVIDE EATON "CN35 SERIES" (OR EQUAL) ELECTRICALLY HELD LIGHTING CONTACTOR, WITH MINIMUM OF TWO SPARE CONTACTS PER CONTACTOR.
- 2 PROVIDE PHOTOCELL 4' MINIMUM ABOVE ROOF LINE LOCATED WITH NORTHERN EXPOSURE AND PROVEN FUNCTIONAL FOR SUNSET TO SUNRISE OPERATION.
- 3 INSTALL COMPONENTS ON SUB PANEL, PROVIDE FIELD WIRING AND RAIL MOUNTED TERMINAL BLOCKS (30A MIN.). ALL CONDUCTORS TO/FROM CONTROL PANEL SHALL PASS THROUGH TERMINAL BLOCKS BEFORE CONNECTION TO DEVICE WITHIN THE PANEL. PANEL WIRING SHOP DRAWING SHALL BE SUBMITTED FOR ENGINEER APPROVAL AND A PERMANENT COPY OF APPROVED DRAWING SHALL BE PROVIDE IN POCKET INSIDE ON PANEL DOOR.
- 4 PHENOLIC THREE LAYER NAMEPLATE WITH 3/16" BLACK LETTERS ON WHITE BACKGROUND, INDICATE CIRCUIT NUMBERS FOR EACH CIRCUIT. SEE PANEL SCHEDULES FOR RELATED CIRCUITS.
- 5 3 POSITION SELECTOR SWITCH WITH SEALED MAINTAINED CONTACTS.
- 6 FACTORY LEGEND PLATE WITH 3/16" BLACK TEXT ON WHITE LABELED AS SHOWN.
- 7 PHENOLIC THREE LAYER NAMEPLATE WITH 3/8" BLACK LETTERS ON WHITE BACKGROUND.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS	INPUT VOLTAGE	INPUT WATTS	REMARKS
A	WHITE LINEAR 48" LED FIXTURE WITH WIDE DIFFUSE LENS AND HIGH EFFICIENCY PACKAGE	LITHONIA CLX-L48-7000LM-HEF-WDL-MVOLT-GZ10-50K-80CRI-WH	LED	120	45	INSTALL FIXTURES IN OVERHEAD ROWS
B	VAPOR TIGHT LED STRIP LIGHT FIXTURE USED FOR OUTDOOR AND CANOPIES.	LITHONIA CSVT-L48-5000LM-MVOLT-SWW3-80CRI	LED	120	42	INSTALL FIXTURE IN DRY WELLS.
C	DARK BRONZE VANDAL RESISTANT LED WALL PACK LUMINAIRE	LITHONIA TWPX1-LED-P1-50K-MVOLT-DDBXD	LED	120	10	INSTALL FIXTURE WITH TOP AT ONE FOOT BELOW ROOF OR SOFFIT
D	DARK BRONZE ALUMINUM WALL PACK LED FIXTURE WITH 90 MINUTE EMERGENCY BATTERY PACK.	LITHONIA WST-LED-P3-50K-VF-MVOLT-E20WC-DDBXD	LED	120	50	INSTALL FIXTURE WITH TOP AT ONE FOOT BELOW ROOF.
E	EMERGENCY FIXTURE WITH TWO HEADS AND SEALED LEAD ACID 90 MINUTE BATTERY.	LITHONIA ELT24-W-MT WITH ELAMSTS MOUNTING SHELF. PAINT SHELF WHITE.	HALOGEN	120	20	INSTALL FIXTURE WITH BOTTOM OF FIXTURE AT 10'-0" ABOVE THE FLOOR. ADD A CORD WITH PLUG TO THE FIXTURE AND PLUG THE CORD INTO A RECEPTACLE MOUNTED TO THE SIDE OF THE FIXTURE.
X	WHITE LED EXIT SIGN FIXTURE IN A THERMOPLASTIC HOUSING WITH RED LETTERS AND NICKEL CADMIUM BATTERY	LITHONIA LQM-S-W-3-R-120/277-ELN	LED	120	1	INSTALL A FIXTURE ABOVE EACH EXIT DOOR.
S	STANCHION LED FIXTURE	EATON EVLEDJ4C701	LED	120	53	INSTALL STANCHION LIGHT FIXTURE TO THE POLE MOUNTED TO THE HANDRAIL.
P	SITE POLE LIGHTING	LITHONIA DSXF2-LED-6-P2-50K-WFL-480-IS-ODF-DNAXD	LED	480	138	INSTALL ON TOP OF LIGHTING POLE.

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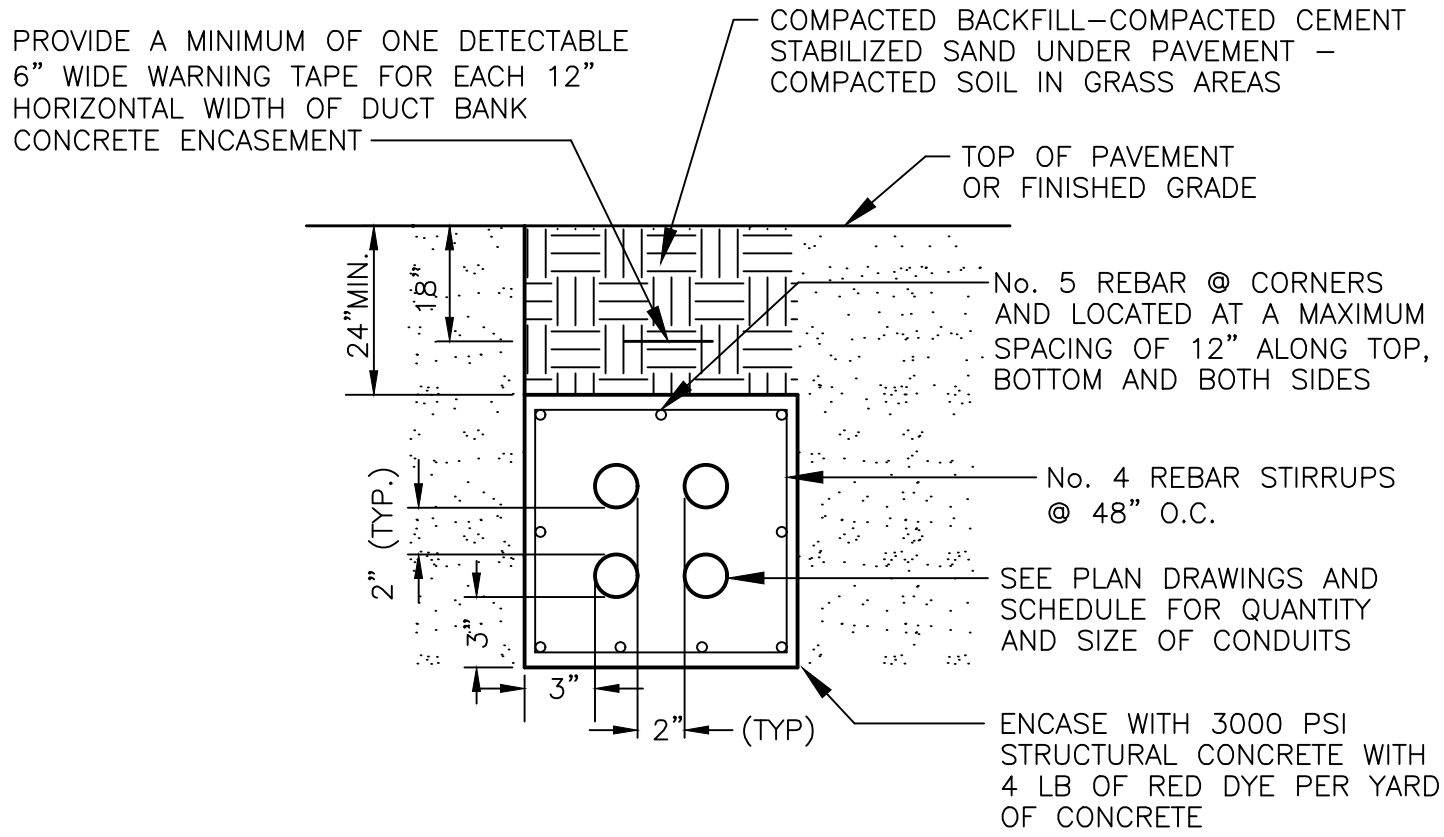
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LIFT STATION REHABILITATION
ELECTRICAL

LIGHT FIXTURE SCHEDULE
AND CONTROL DIAGRAM

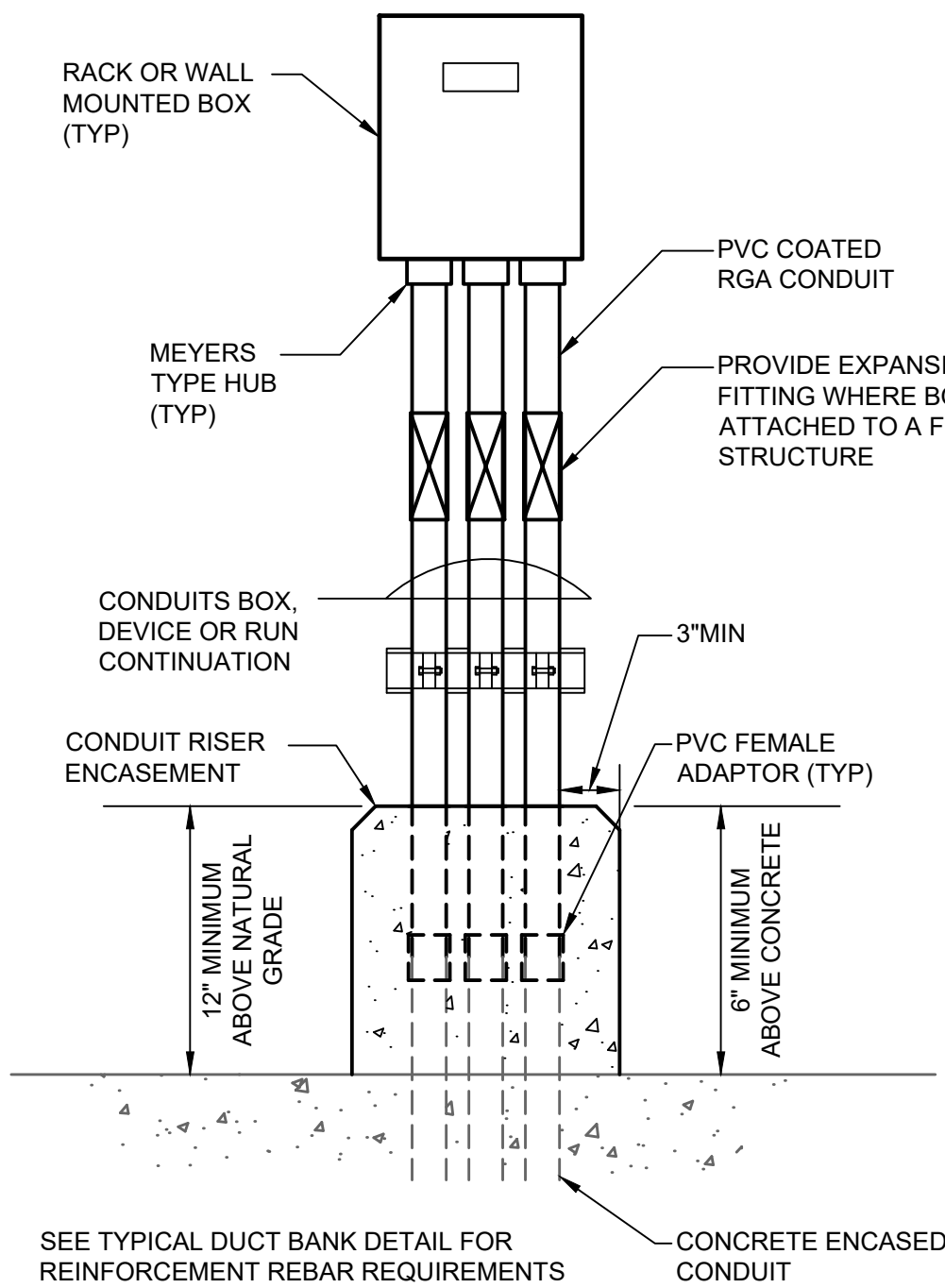
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SHEET NO. XXX OF XX	

DUCT BANK CONCRETE ENCASEMENT SHALL BE CONTINUOUS AND DUCT BANK REINFORCEMENT REBAR SHALL BE CONNECTED TO THE DESTINATION. FOR PULL BOX ENTRY OR RISING NEXT TO A STRUCTURE DRILL BOX OR STRUCTURE AND PROVIDE #5 DOWELS 4 INCHES DEEP. FOR ENTRY TO STRUCTURE SLAB OR FOUNDATIONS CONNECT BOTH REINFORCEMENT REBAR SYSTEMS WITH 6 INCH OVERLAP DOUBLE TIED.



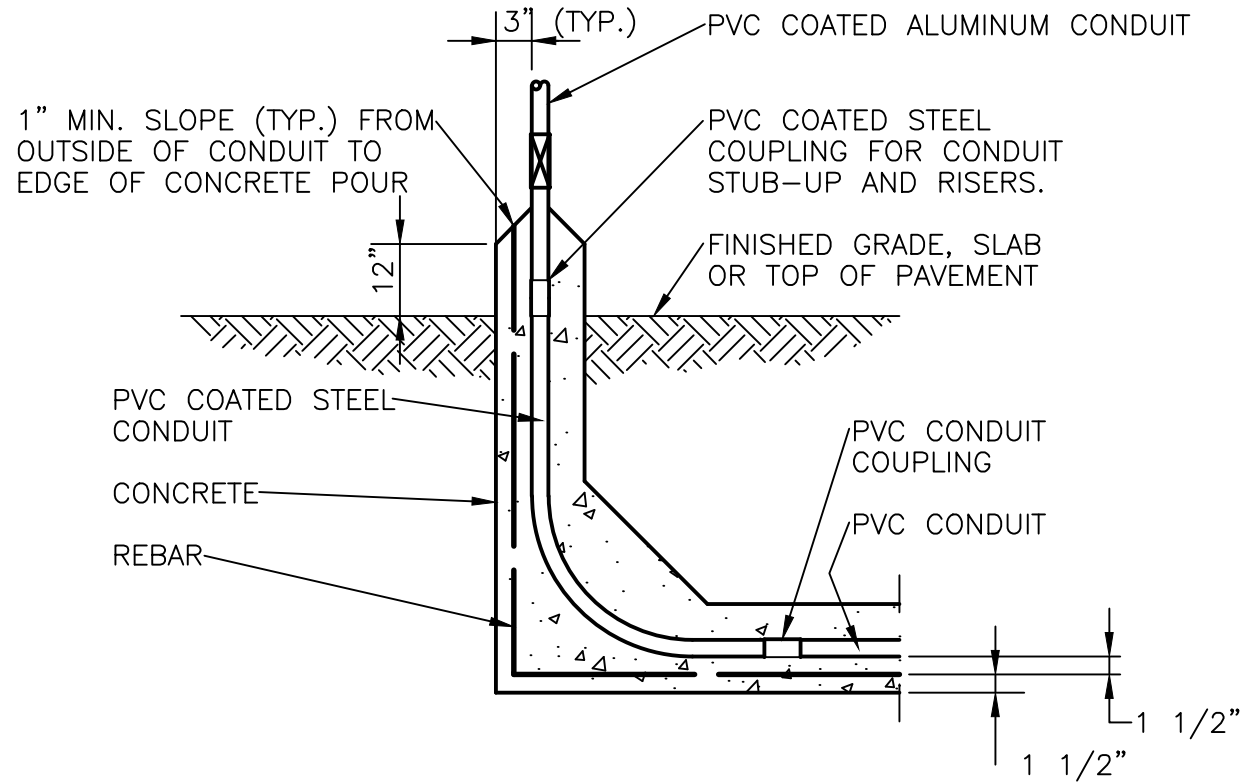
TYPICAL DUCT BANK INSTALLATION

DETAIL 1



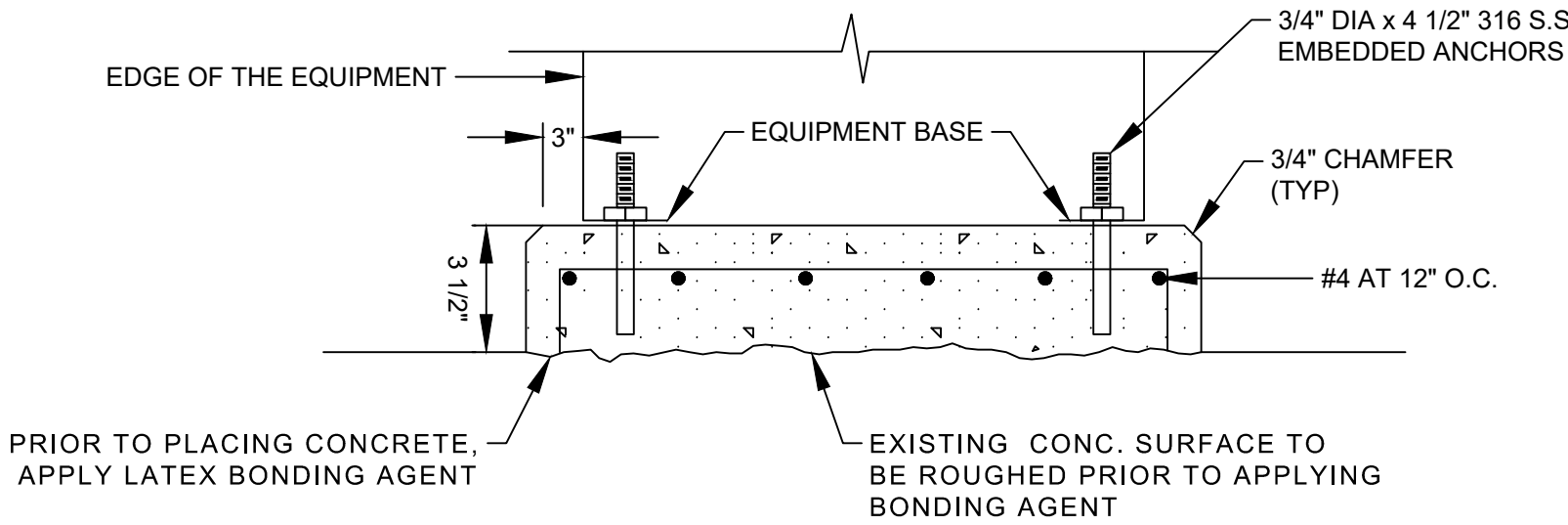
CONDUIT RISER CONCRETE ENCASEMENT

DETAIL 2



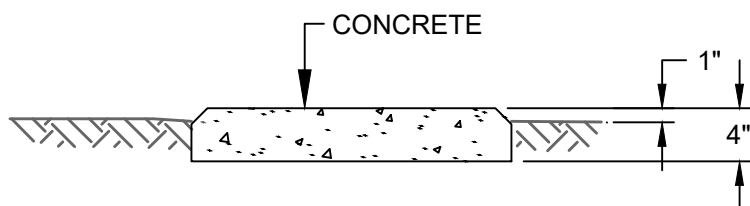
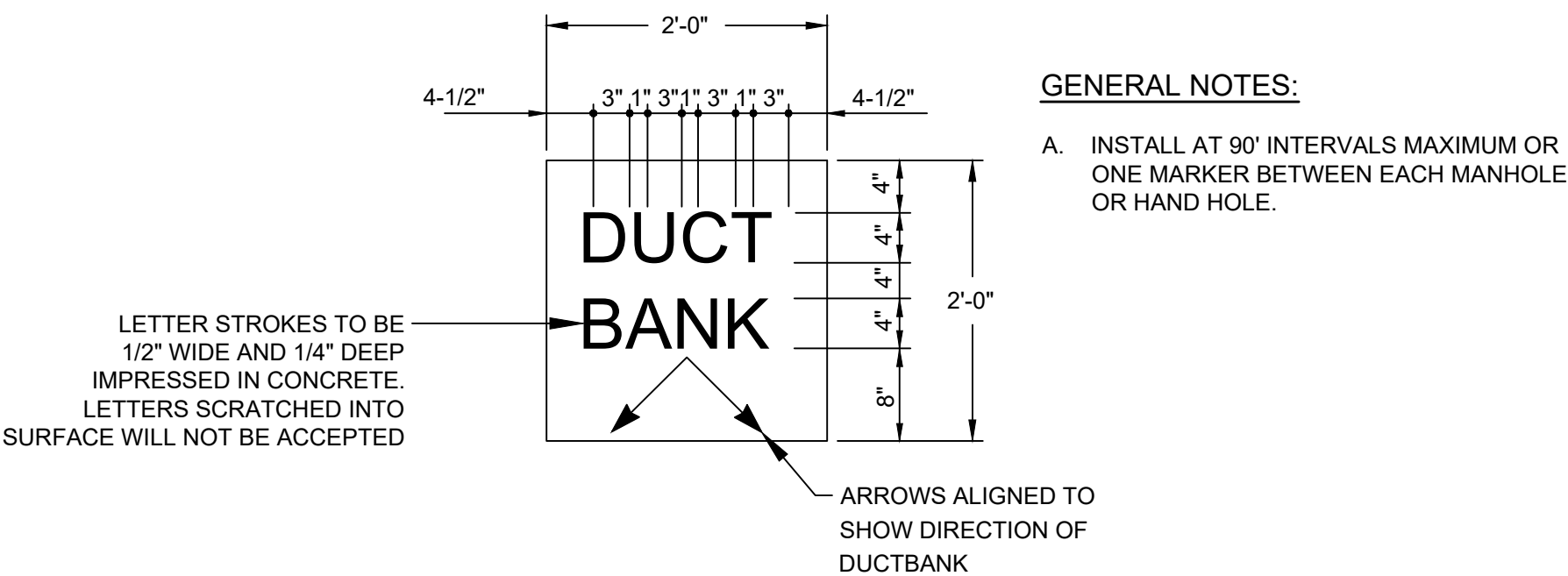
TYPICAL SINGLE CONDUIT DUCT BANK STUB-UP

DETAIL 3



EQUIPMENT HOUSEKEEPING CONCRETE PAD

DETAIL 4



CONCRETE DUCT BANK MARKER

DETAIL 5

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JOB NO: 00050-0099-01 DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

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JANUARY 19, 2026
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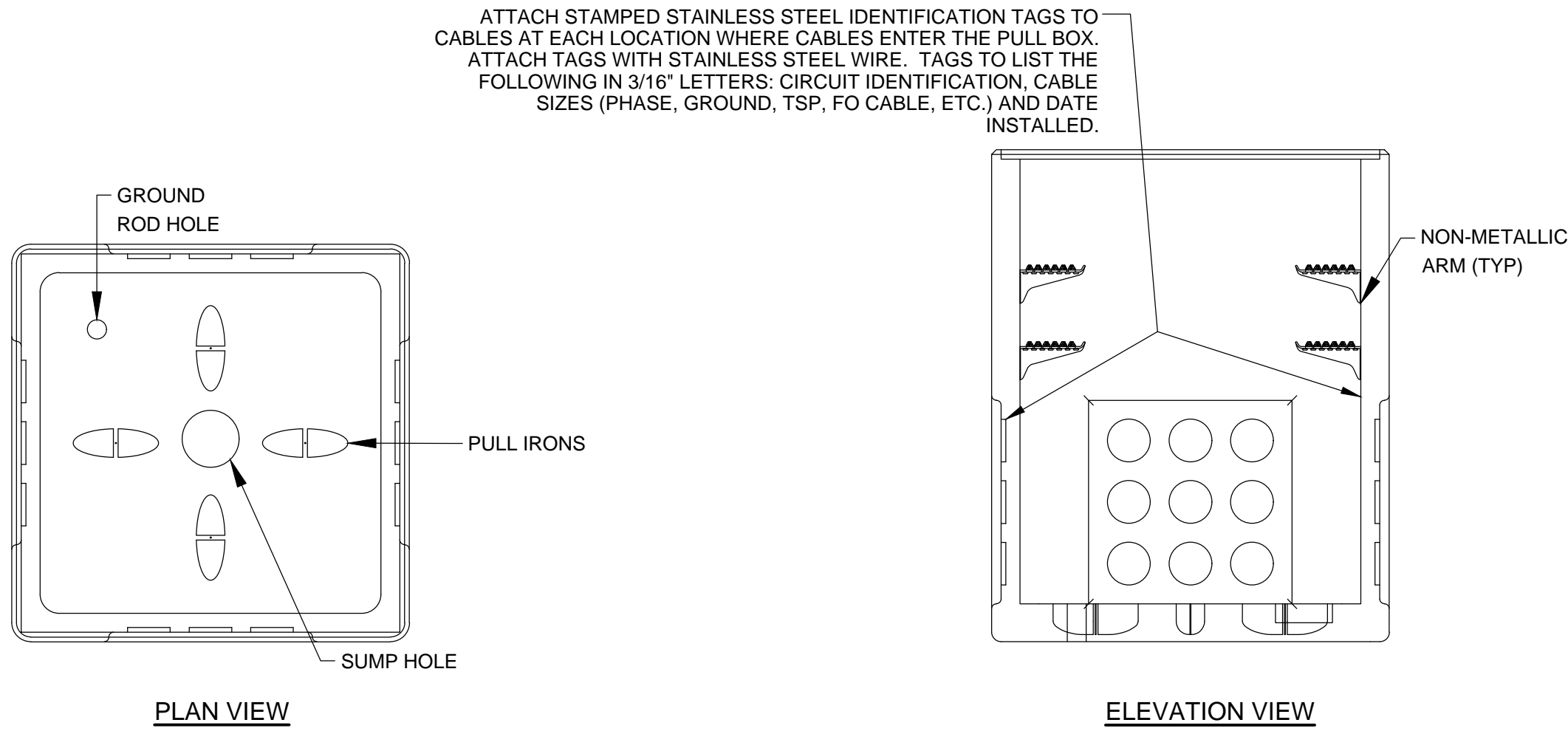
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

ELECTRICAL DETAILS
SHEET 1

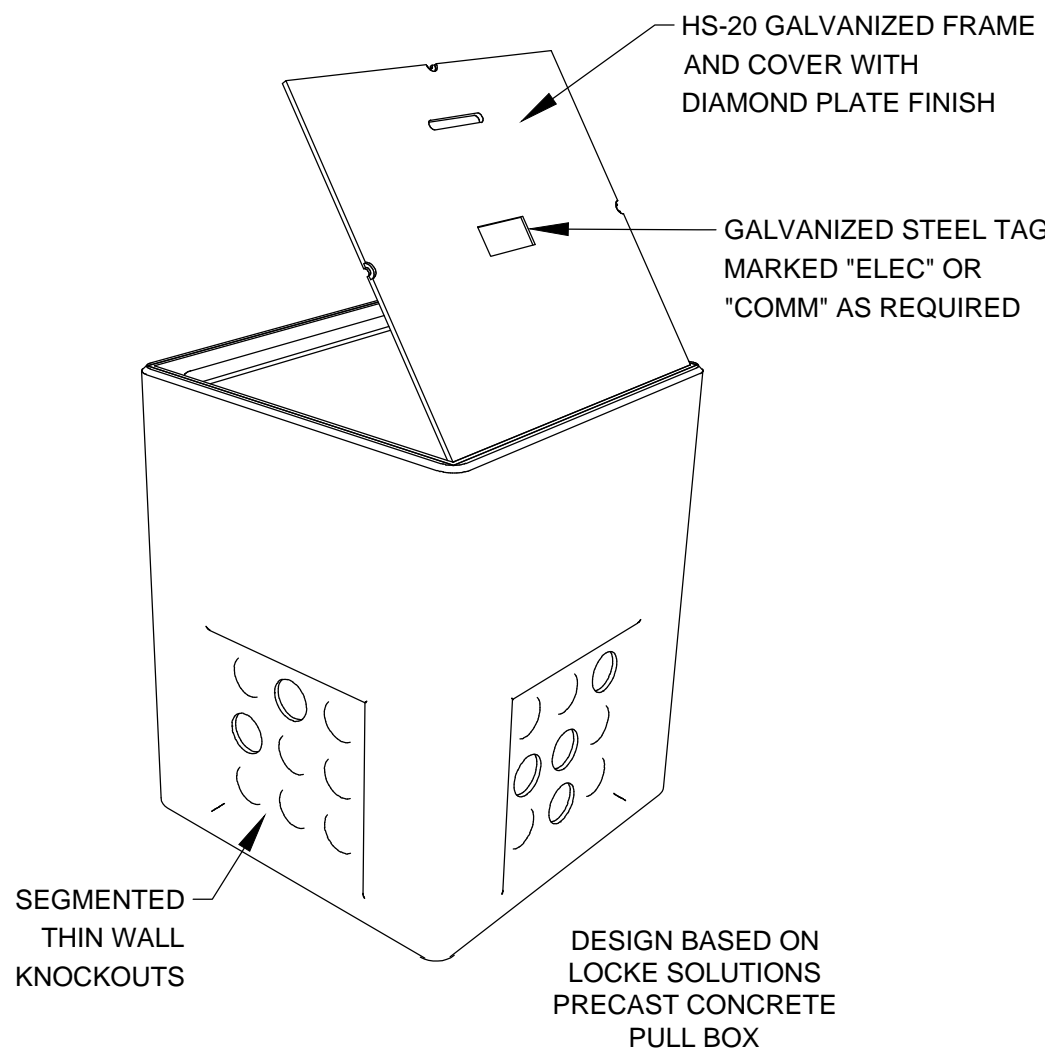
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
HASAN MCKEE, P.E.	
DWG NO. 0-E-91	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.



PULL BOX SIZES			
DESIGATION	INSIDE WIDTH (W)	INSIDE LENGTH (L)	INSIDE DEPTH (D)
E1	12"	24"	22"
E2	24"	24"	42"
E3	36"	36"	48"
E4	48"	48"	48"
E5	48"	48"	60"
I1	12"	24"	22"
I2	24"	24"	42"
I3	36"	36"	48"
I4	48"	48"	48"

- NOTES:
- COVERS FOR ALL PULL BOXES TO BE HOT-DIP GALVANIZED AND DESIGNED FOR AASHTO HS-20 LOADING.
 - "E" PULL BOXES TO HAVE "ELEC" TAG ON THE COVER.
 - "I" PULL BOXES TO HAVE "COMM" TAG ON THE COVER.
 - "C" PULL BOXES TO HAVE "CONTROLS" TAG ON THE COVER.



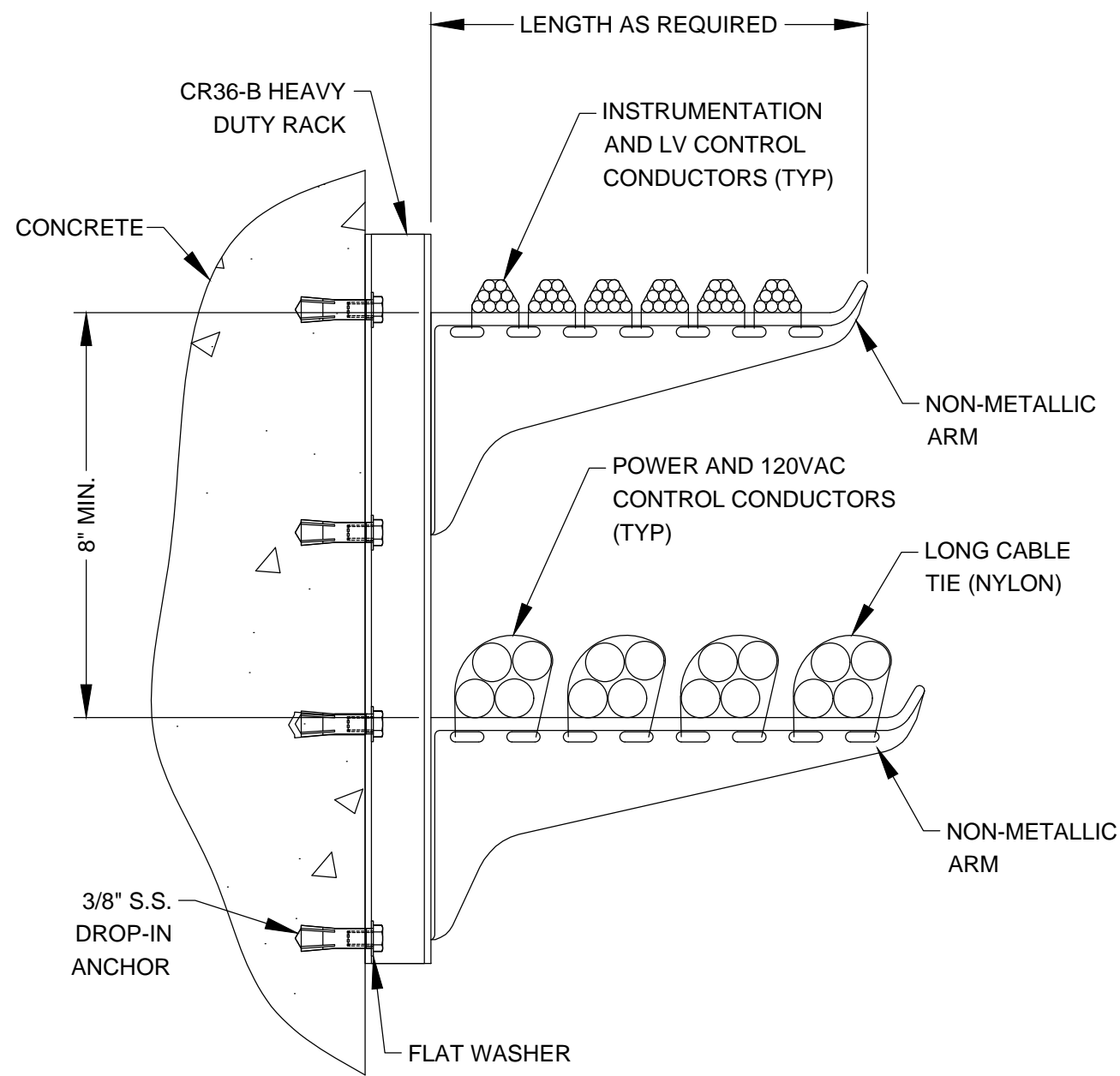
ELECTRICAL PULL BOX

DETAIL

NTS

1

- PULL BOX NOTES:
- PROVIDE UNDERGROUND DEVICES CABLE RACK SYSTEMS AS REQUIRED TO SUPPORT CABLES ROUTED AROUND THE WALLS OF THE UNDERGROUND PULL BOX.
 - CABLES SHALL BE SECURED TO RACK ARMS WITH CABLE TIES, PROVIDE UNDERGROUND DEVICES, INC. NO. 36 VERTICAL RACK WITH 14" ARMS AS REQUIRED. SECURE RACKS TO PULL BOX WALLS WITH 316 SS HARDWARE.



PULL BOX CABLE RACK INSTALLATION

DETAIL

NTS

2

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown.
(Gas services lines are not shown. This signature not to be used for conflict verification.)
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY.
(This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved by AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

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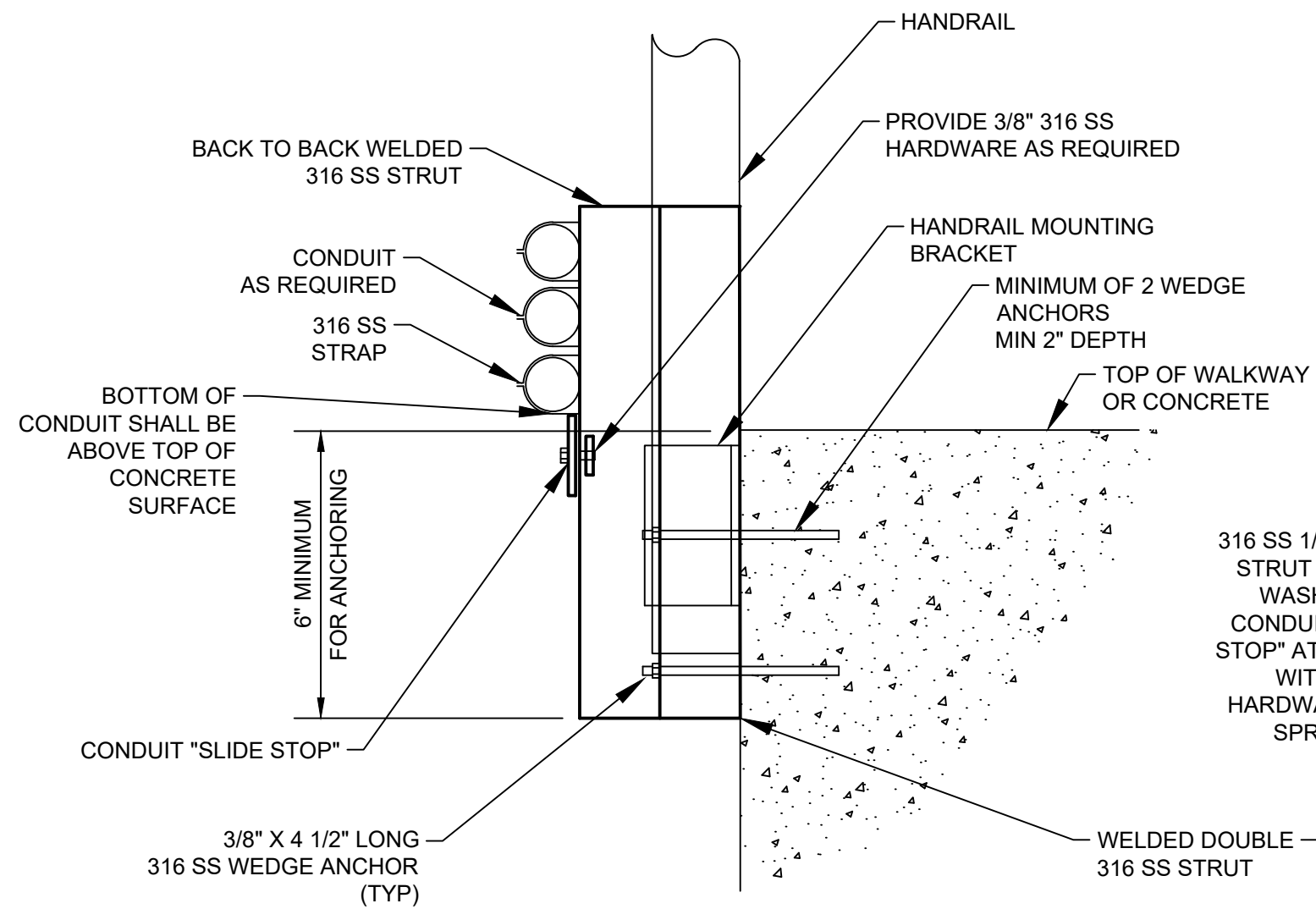
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

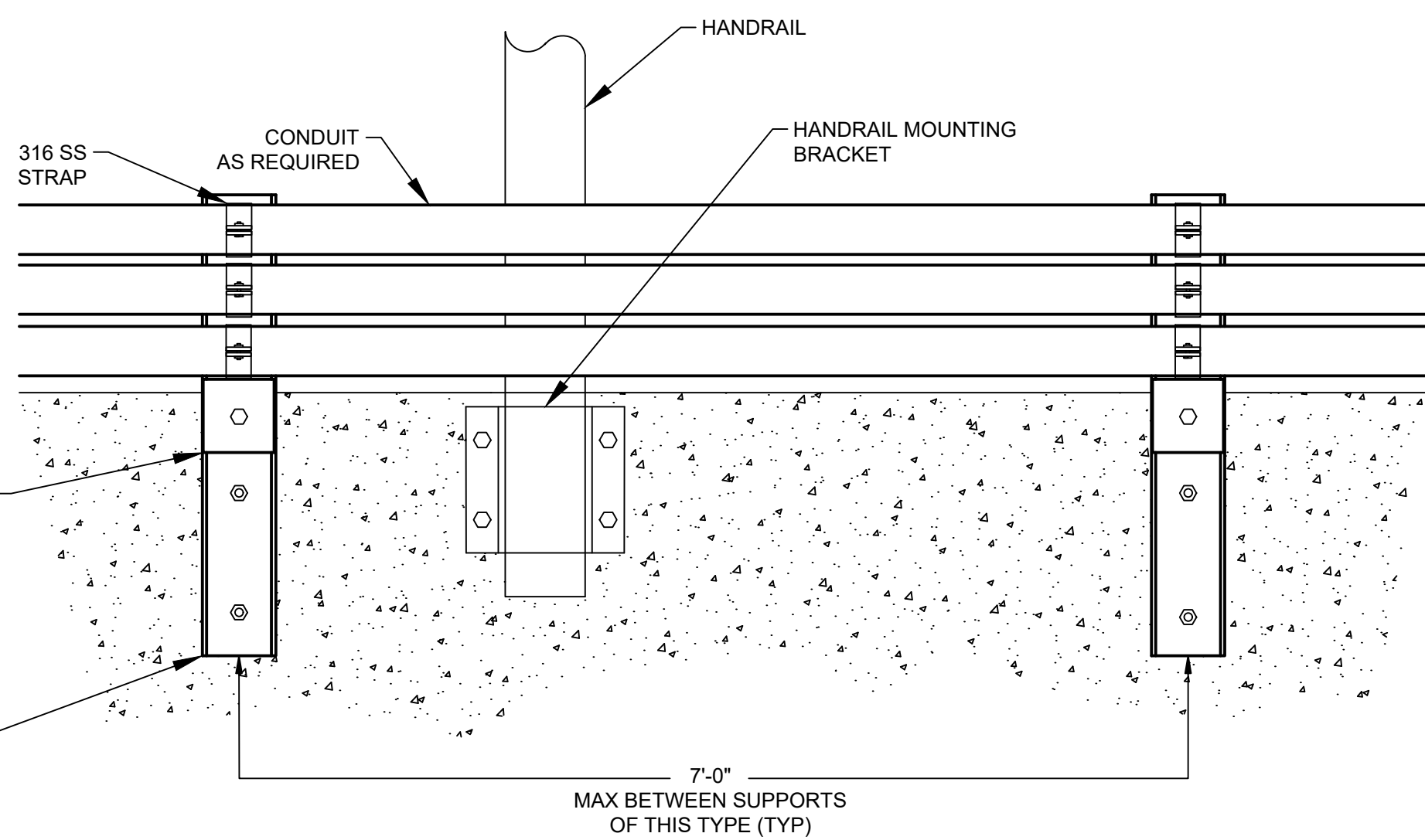
ELECTRICAL DETAILS
SHEET 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-92	
SHEET NO. OF XX	



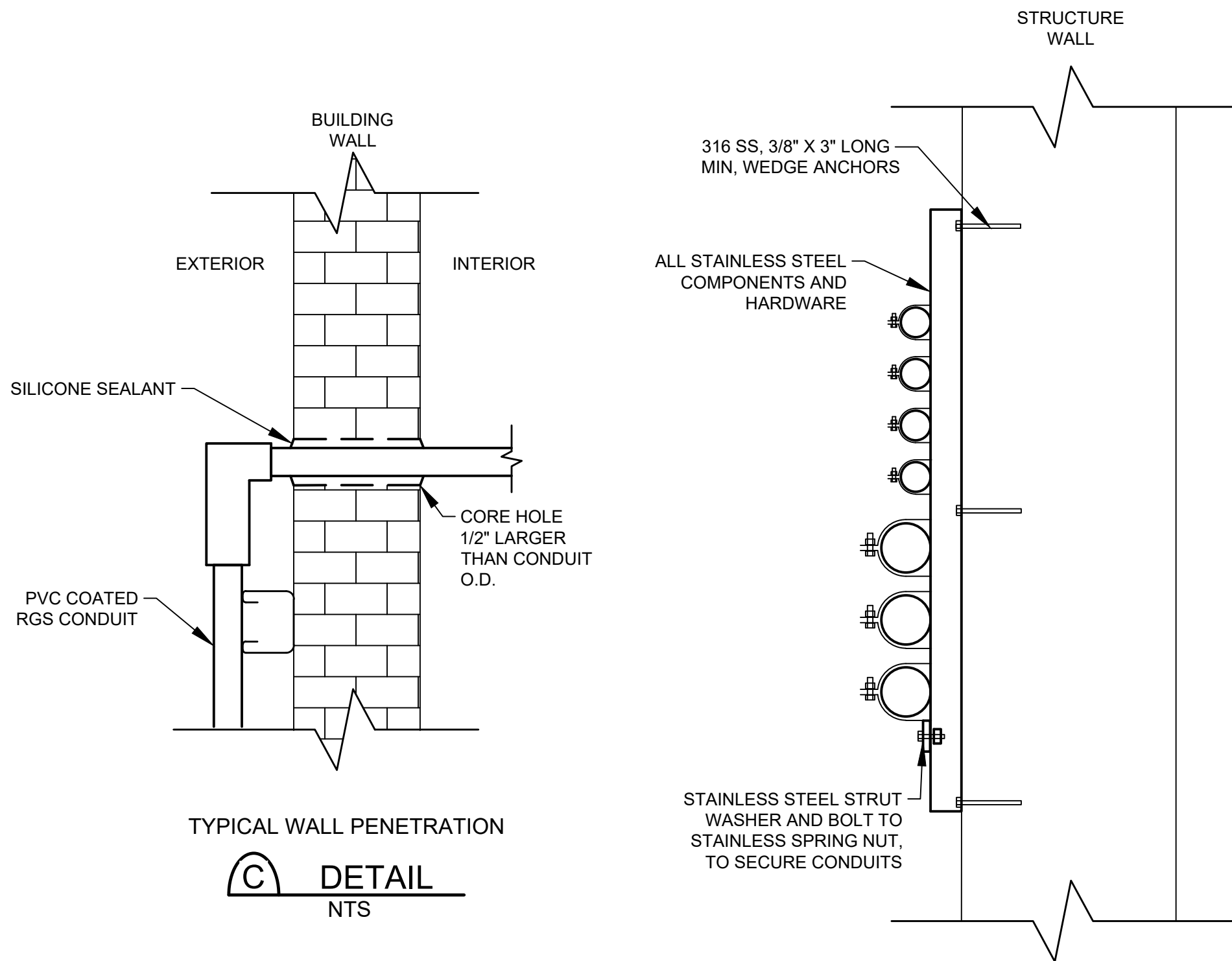
SIDE VIEW
EDGE OF STRUCTURE CONDUIT SUPPORT

(A) DETAIL
NTS

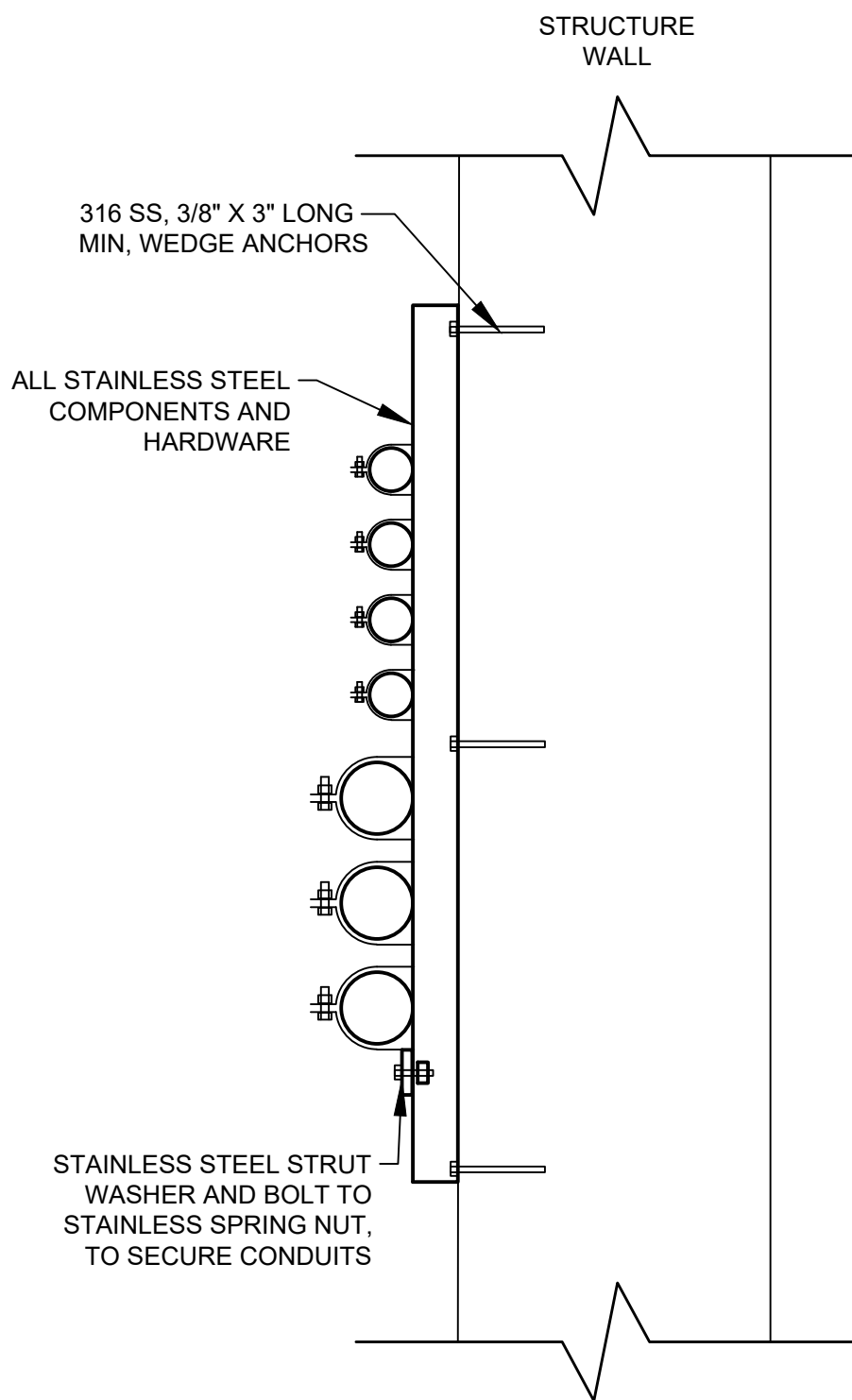


ELEVATION
EDGE OF STRUCTURE CONDUIT SUPPORT

(B) DETAIL
NTS

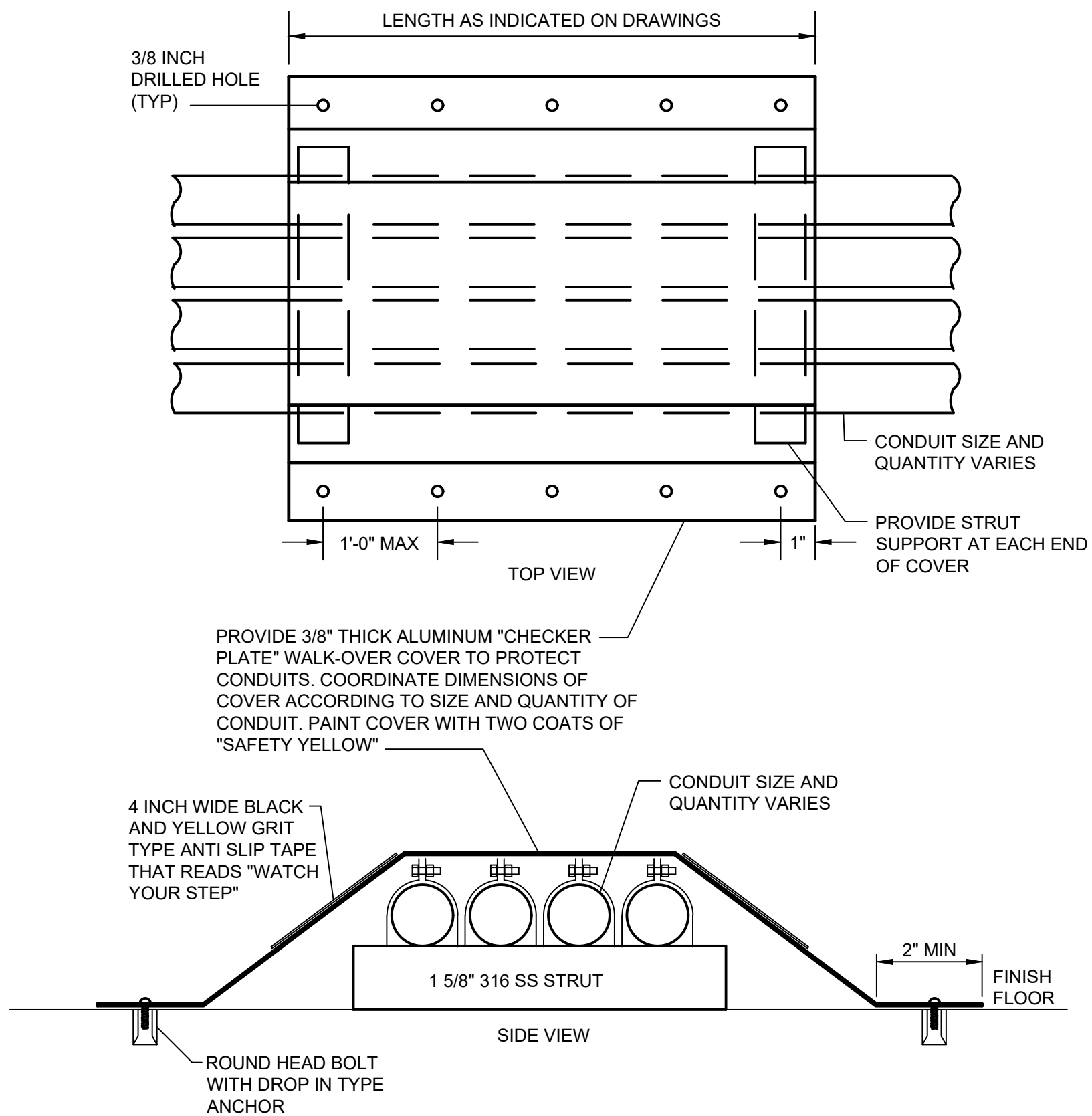


(C) DETAIL
NTS



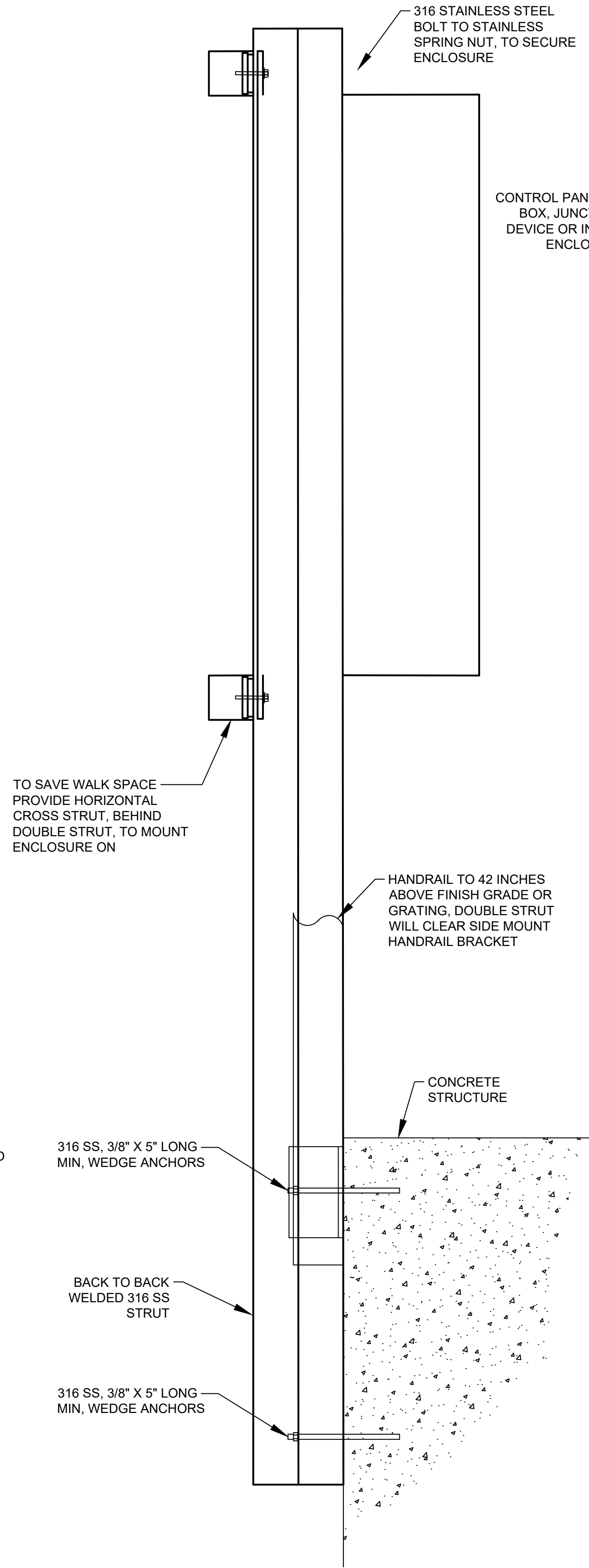
TYPICAL VERTICAL WALL RACK

(D) DETAIL
NTS



TYPICAL WALK-OVER TREAD PLATE

(E) DETAIL
NTS



EDGE OF STRUCTURE PANEL SUPPORT

(F) DETAIL
NTS

NO.	DATE	REVISIONS	APP.

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Signature valid for one year

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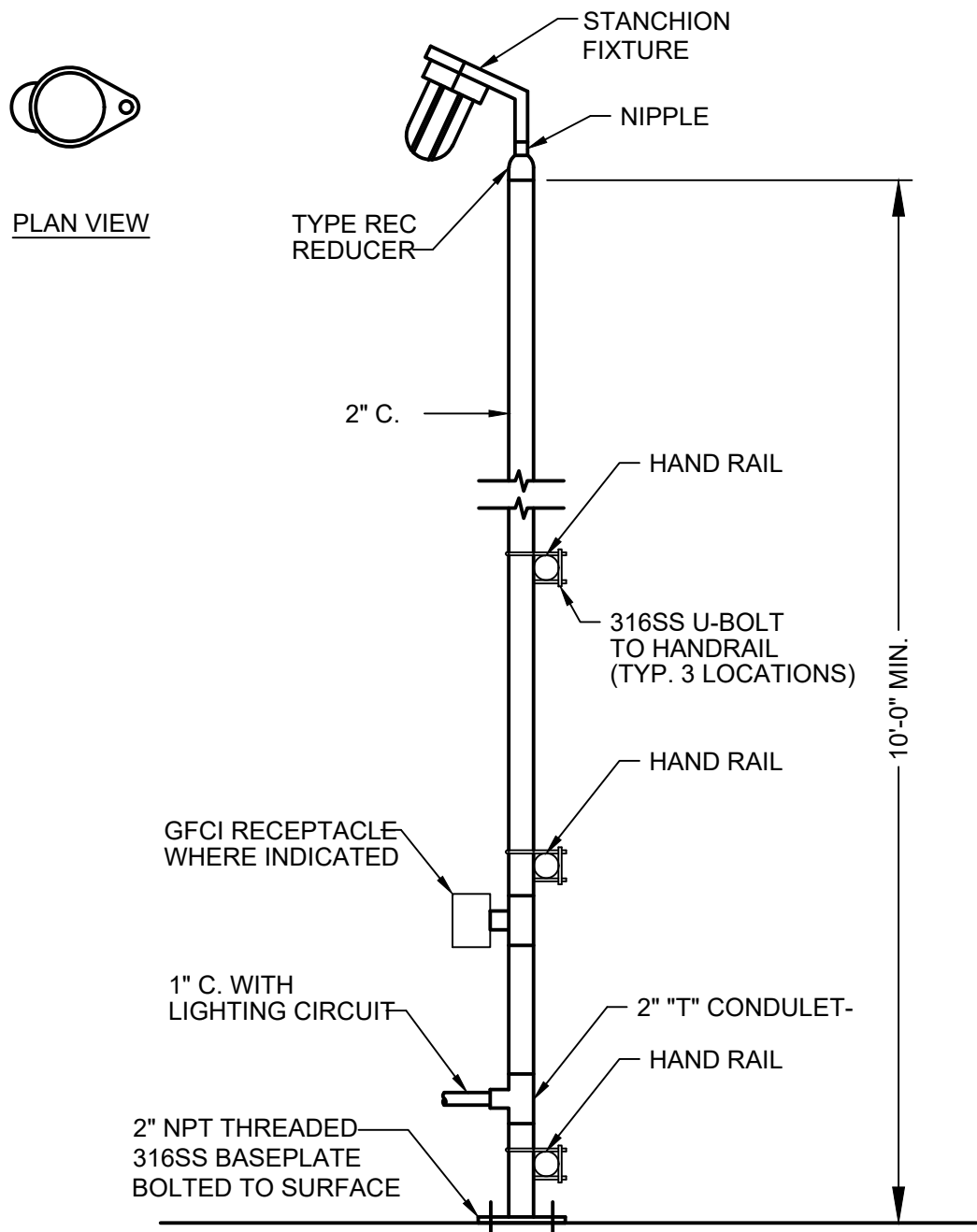
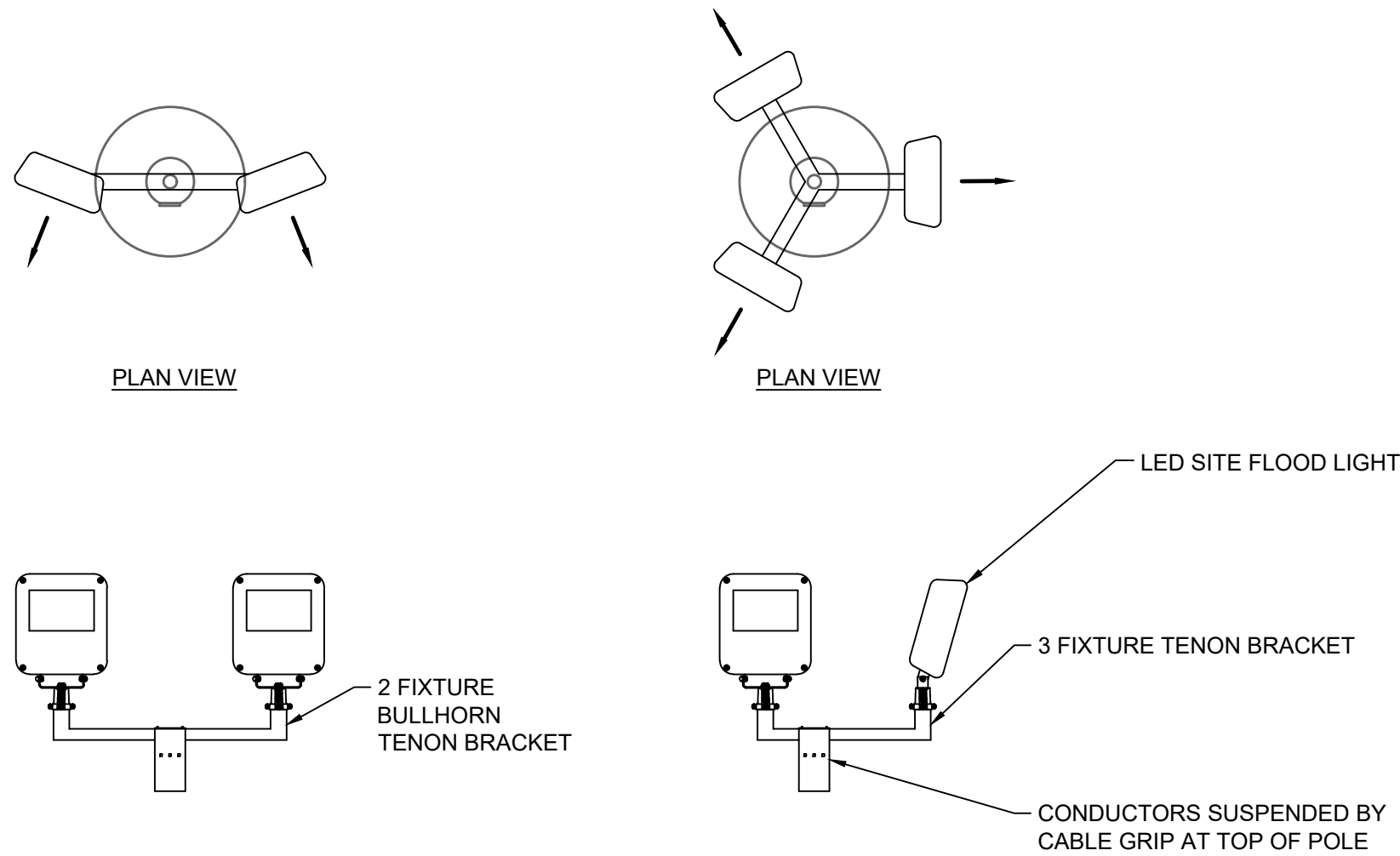
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL**

**ELECTRICAL DETAILS
SHEET 3**

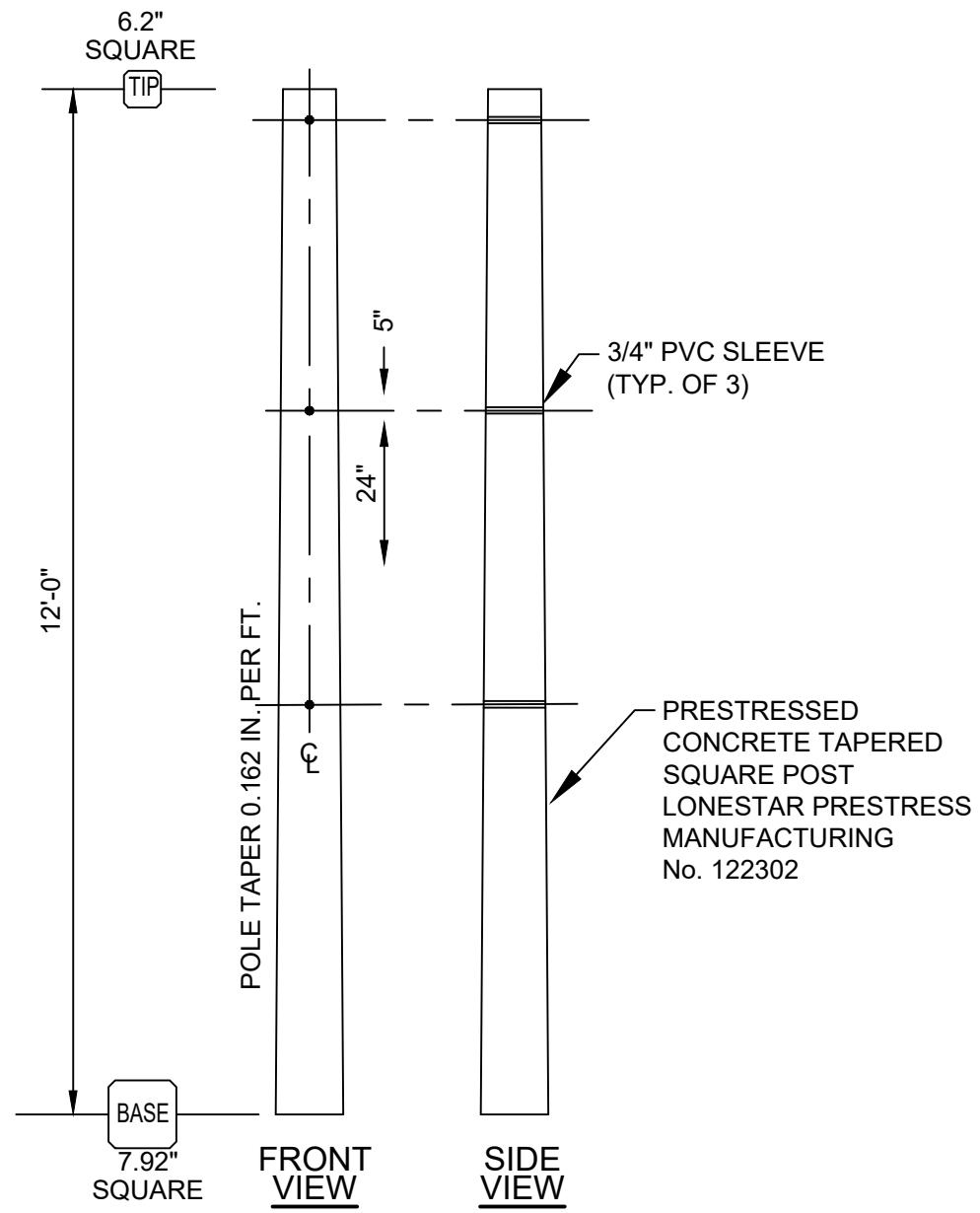
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DRAWING SCALE	
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CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-93	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.



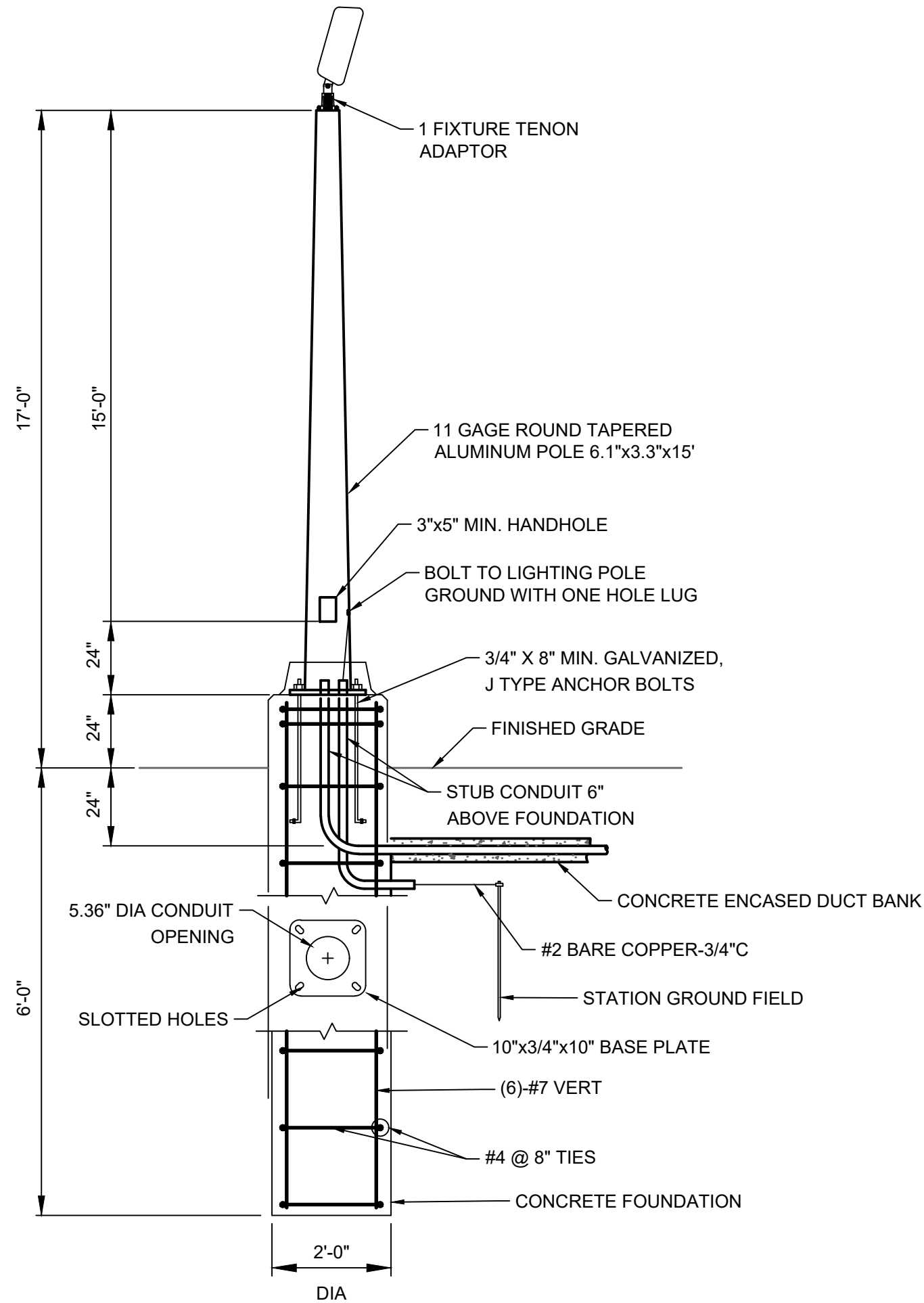
CONDUIT MOUNTED STANCHION LIGHT FIXTURE

(B) DETAIL
NTS

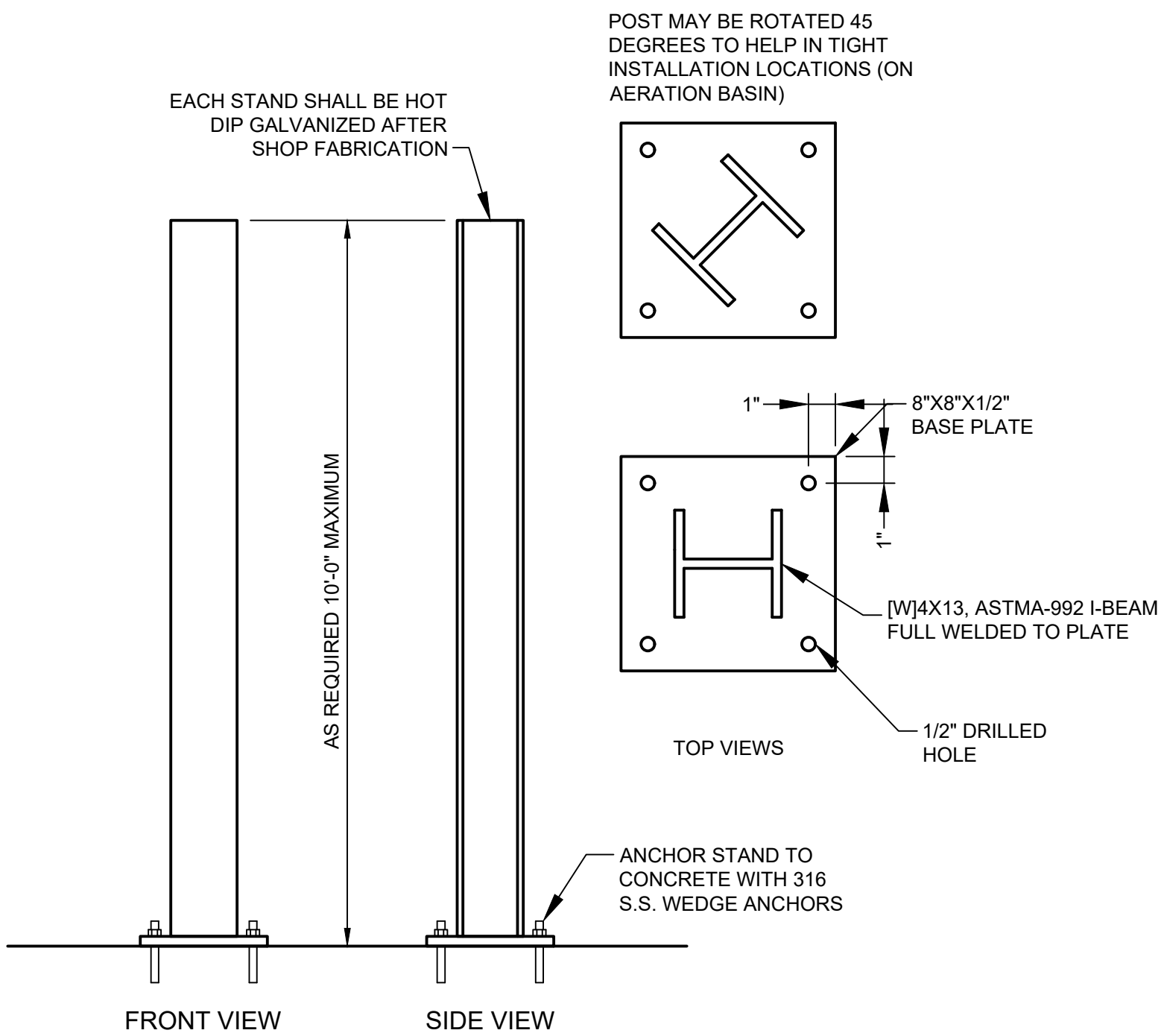


CONCRETE POST DETAIL

(C) DETAIL
NTS

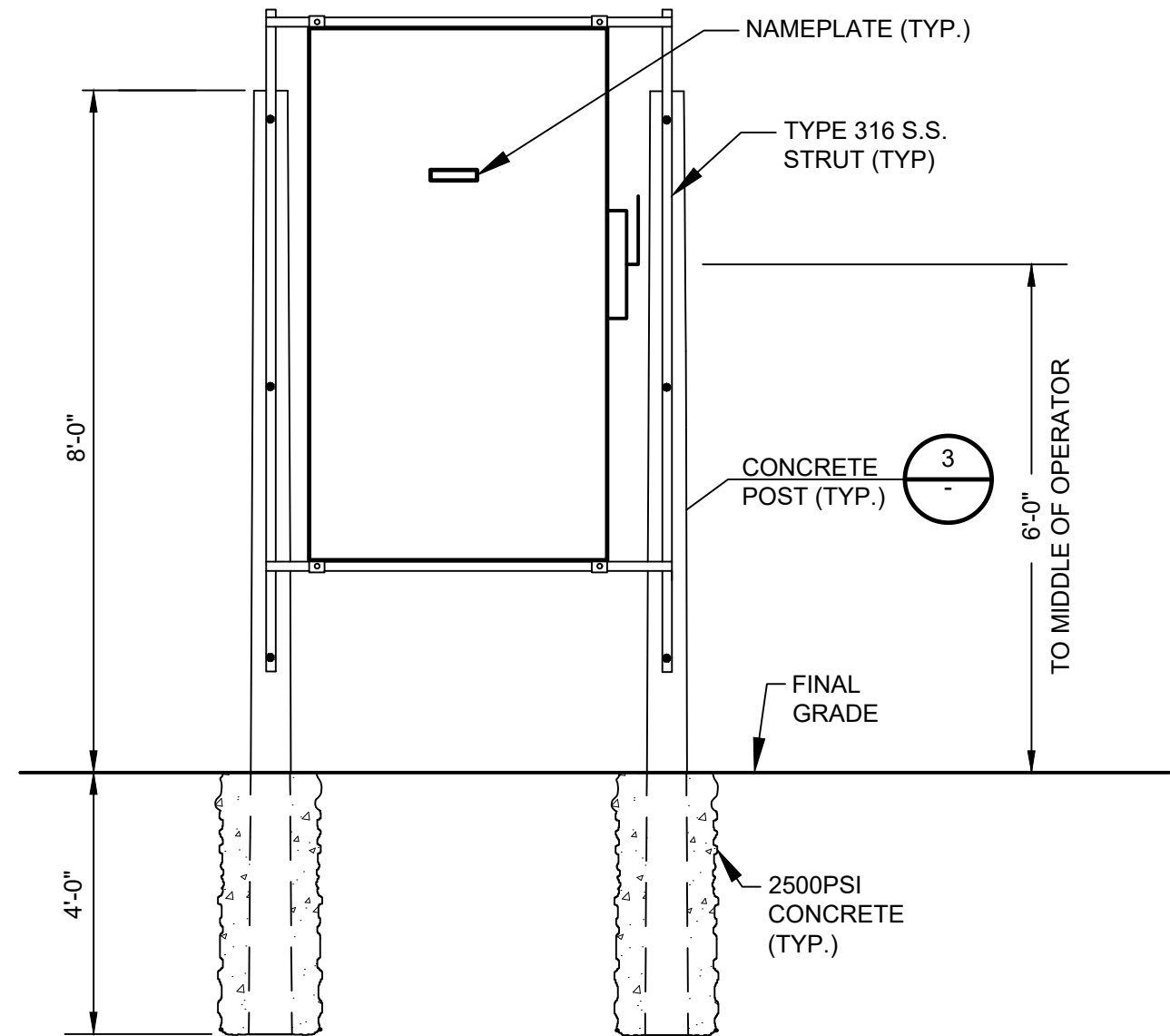


SITE LIGHT
(A) DETAIL
NTS



VERTICAL SUPPORT

(D) DETAIL
NTS



MOBILE GENERATOR CONNECTION CABINET SUPPORT

(E) DETAIL
NTS

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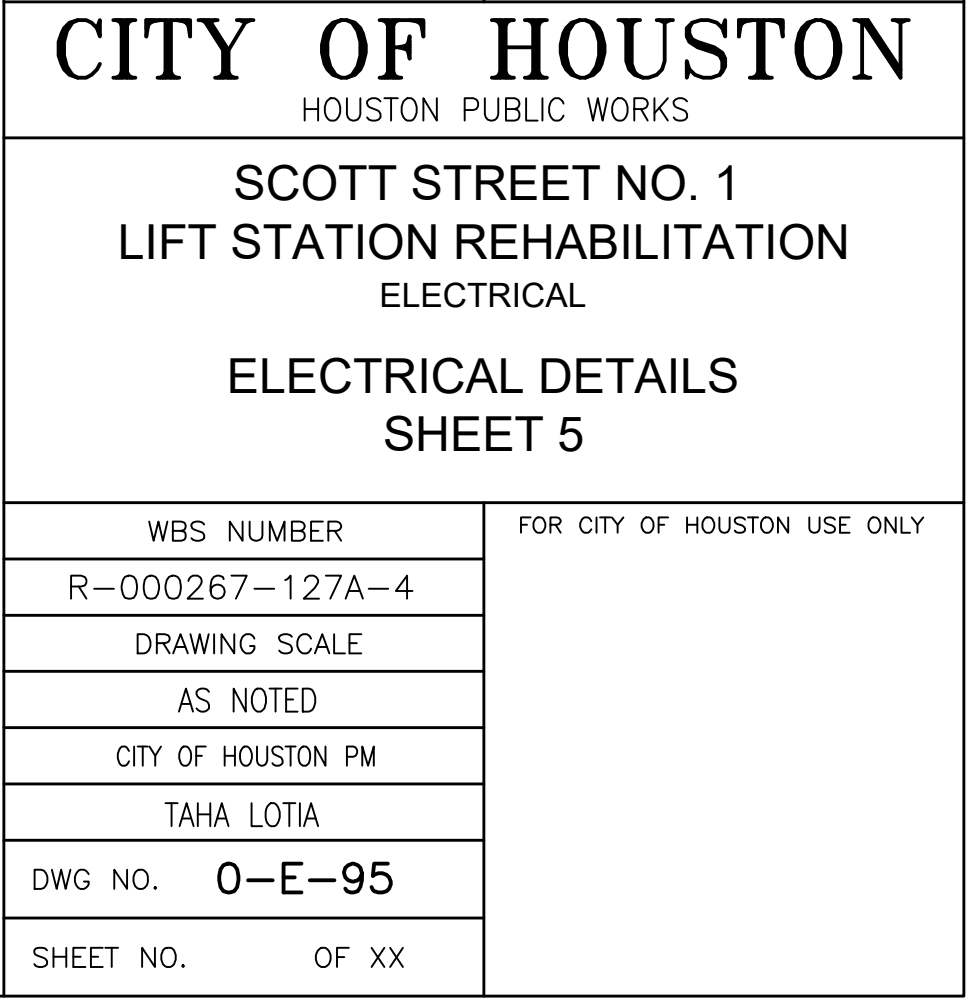
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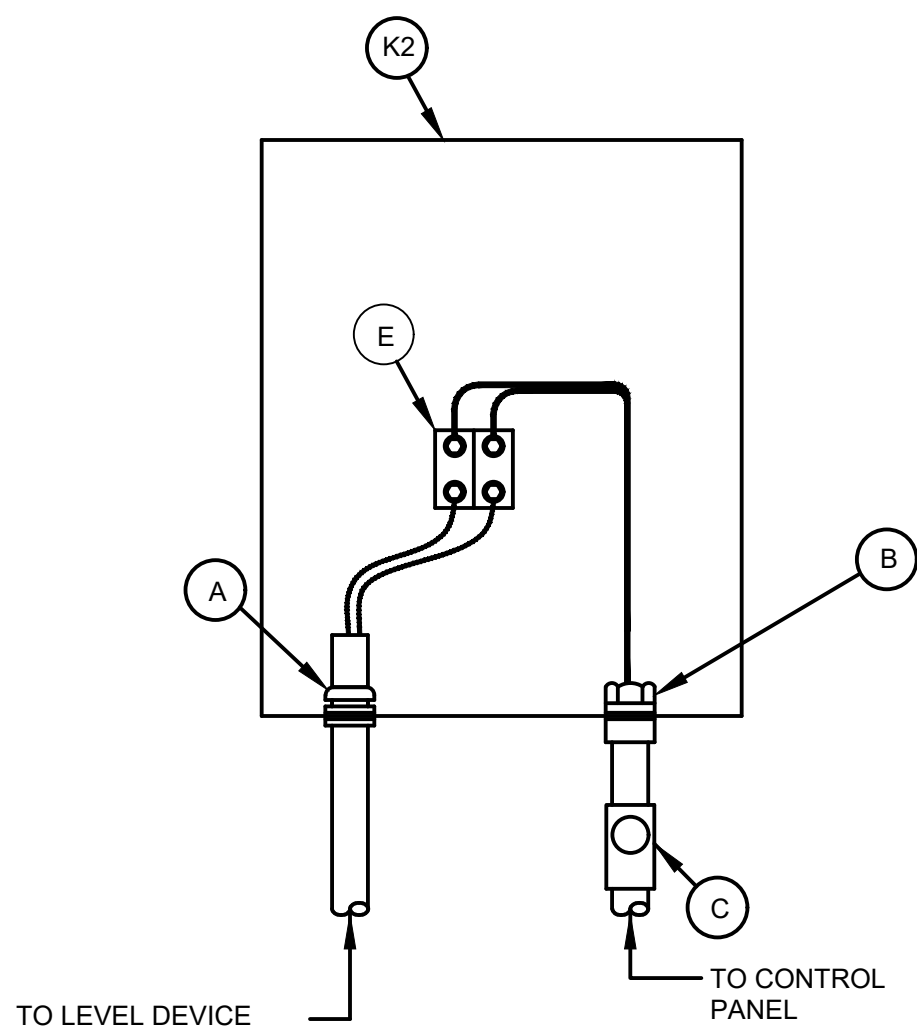
CITY OF HOUSTON
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SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

ELECTRICAL DETAILS
SHEET 4

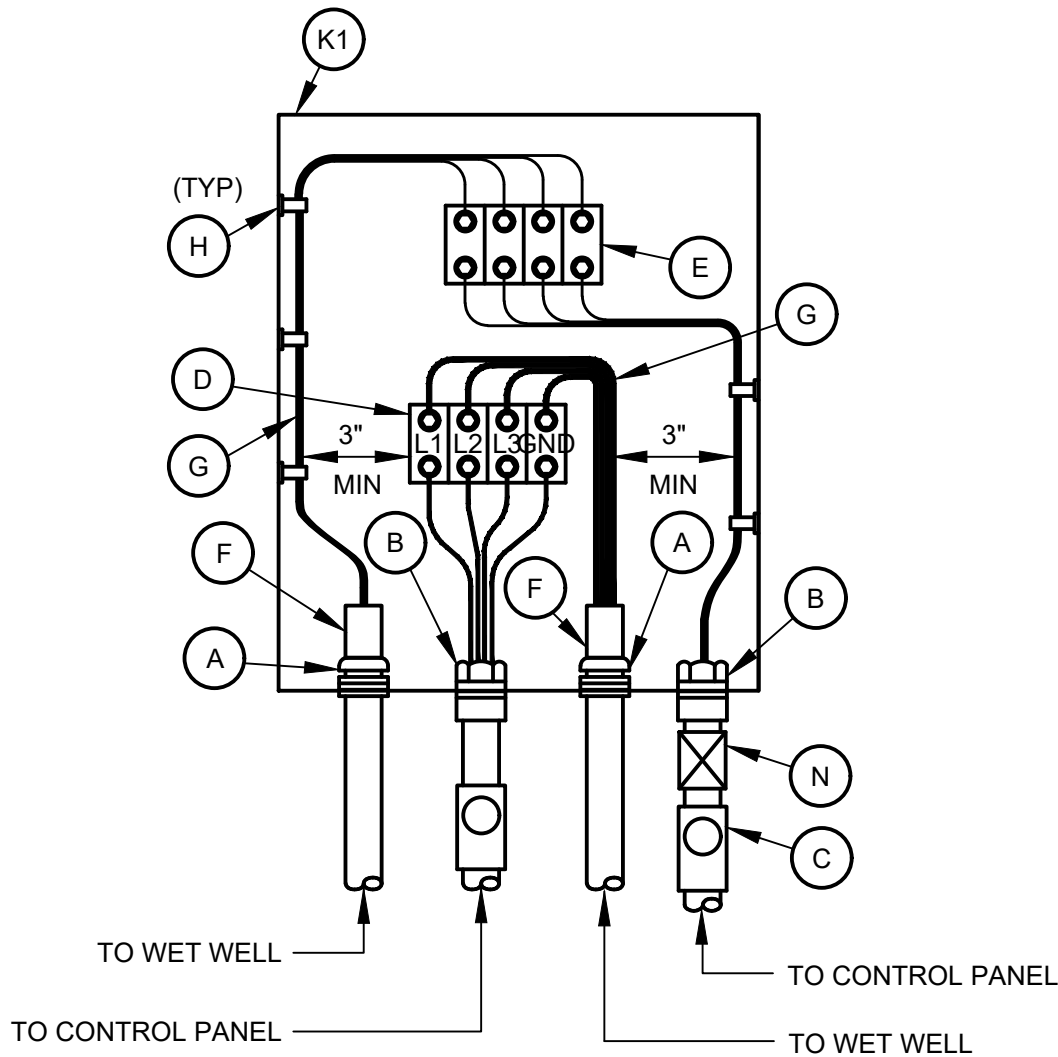
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DWG NO. 0-E-94	
SHEET NO. OF XX	





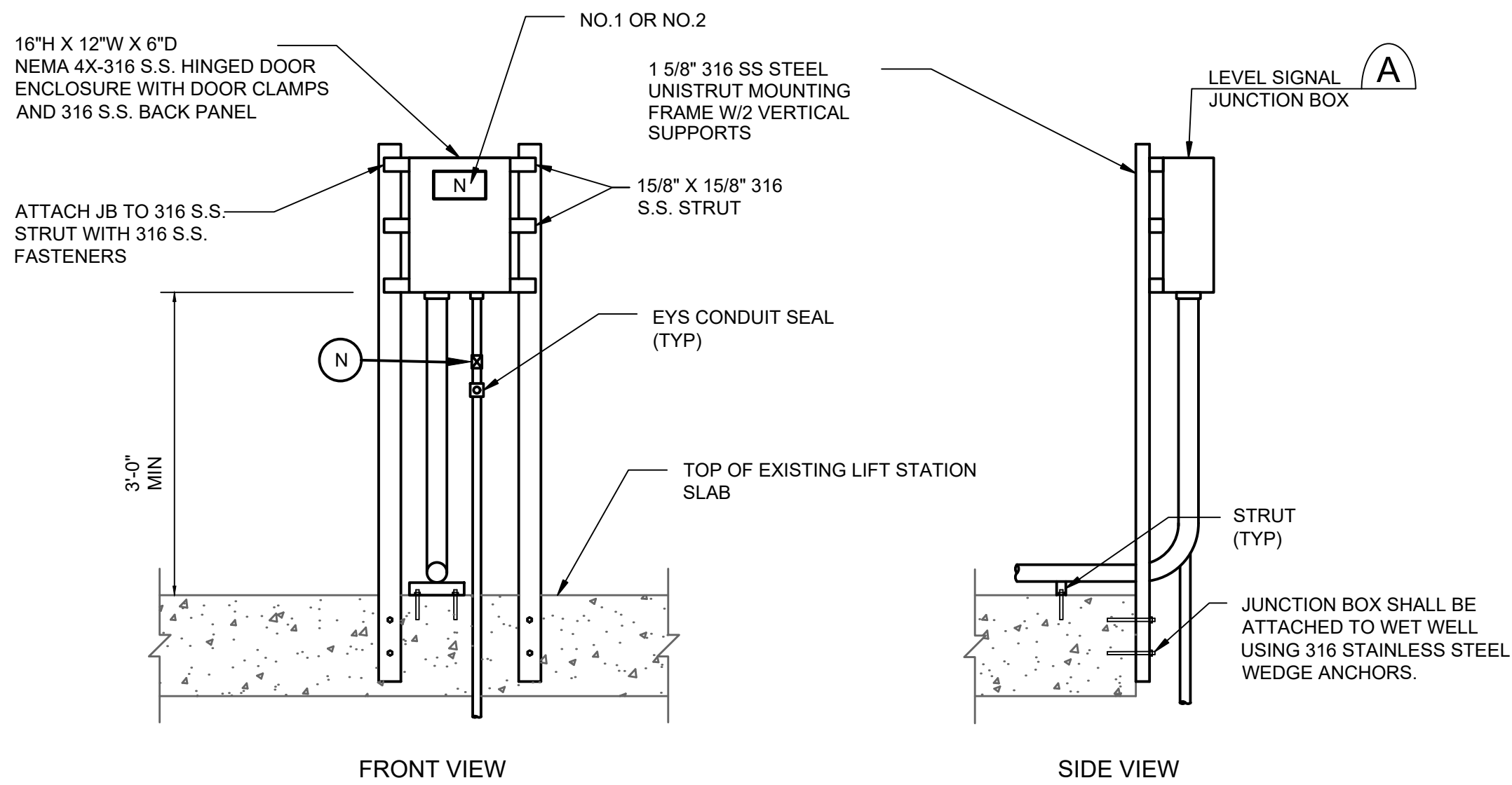
LEVEL SIGNAL JUNCTION BOX

(A) DETAIL
NTS



PUMP CABLE JUNCTION BOX

(B) DETAIL
NTS

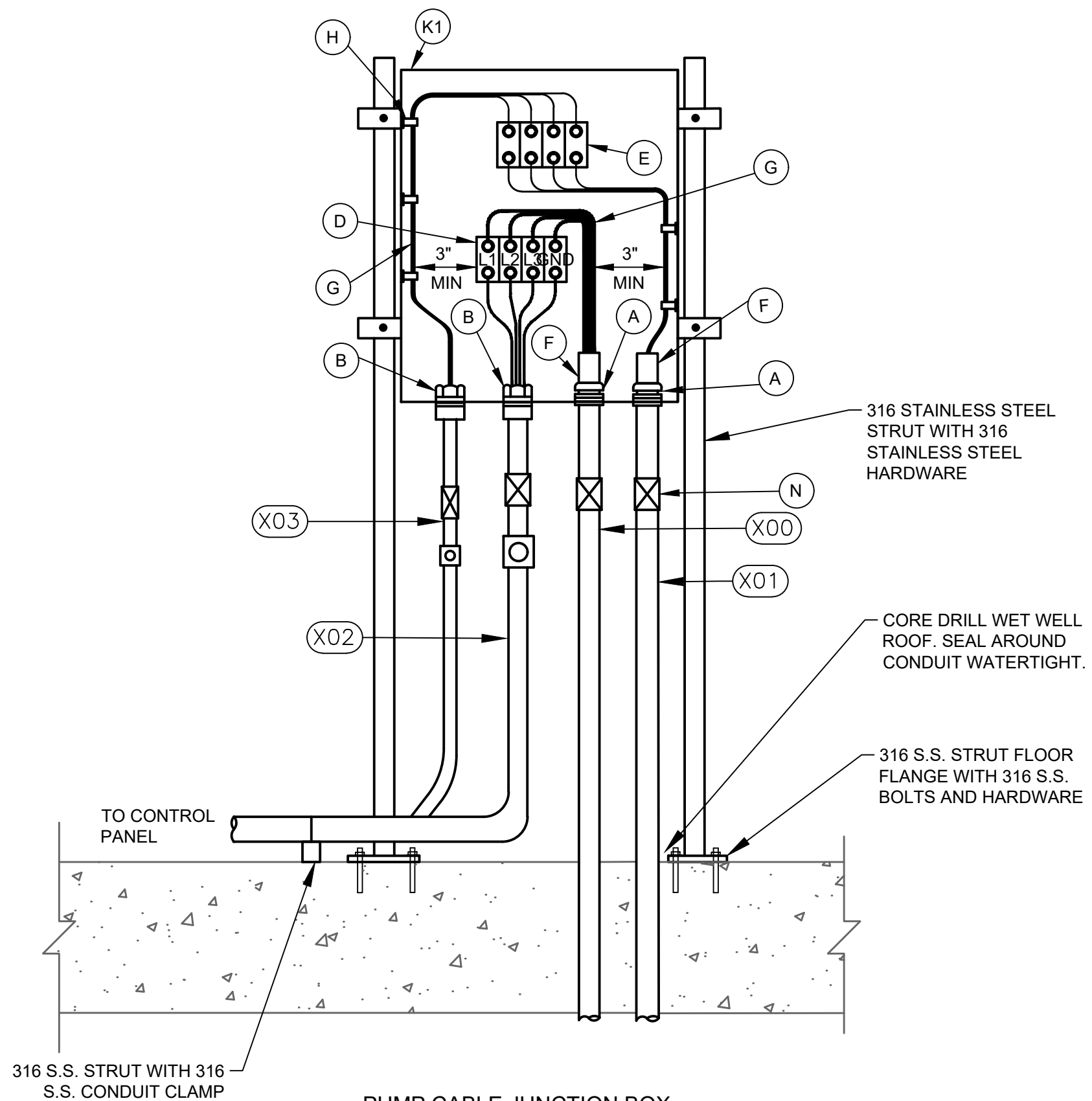


FRONT VIEW

SIDE VIEW

LEVEL SIGNAL JUNCTION BOX ELEVATION

(C) DETAIL
NTS



PUMP CABLE JUNCTION BOX

(D) DETAIL
NTS

JUNCTION BOX EQUIPMENT SCHEDULE

- A - OZ GEDNEY CSBE SEAL WITH 316 S.S. PRESSURE PLATES AND HARDWARE
- B - WATERTIGHT CONDUIT HUB WITH INSULATED BUSHING
- C - CLASS I, DIV 1, EXLOSION PROOF SEAL INSTALLED PER NEC DIV 501
- D - POWER TERMINAL BLOCK W/SCREW DOWN BOX LUGS
- E - CONTROL TERM BLOCK W/SCREW DOWN BOX LUGS
- F - MULTI-CONDUCTOR CABLE, REMOVE OUTER JACKET AS SHOWN
- G - WIRING AS SCHEDULED
- H - WIRING HARNESS PERMANENTLY AFFIXED
- I - PUMP CONTROL WIRING FROM PUMPS 2; 2 & 3; 4; OR D2, AS APPLICABLE
- J - 1 1/2" PVC COATED CONDUIT NIPPLE
- K1 - NEMA 4X 316 STAINLESS STEEL JUNCTION BOX WITH GASKETED FRONT COVER, SINGLE QUARTER TURN, OIL-TIGHT LATCH AND PADLOCKING PROVISIONS, HOFFMAN A24H2010SS6LP OR EQUAL. MINIMUM SIZE: 20"W X 24"H X 10"D
- K2 - NEMA 4X 316 STAINLESS STEEL JUNCTION BOX WITH GASKETED FRONT COVER, SINGLE QUARTER TURN, OIL-TIGHT LATCH AND PADLOCKING PROVISIONS, HOFFMAN A16H1206SS6LP OR EQUAL. MINIMUM SIZE: 12"W X 16"H X 6"D
- L - NAMEPLATE, 3/8" HIGH LETTERS IN WHITE ON BLACK BAKELIGHT (SEE NAMEPLATE SCHEDULE)
- M - TRANSDUCER BREATHER PERMANENTLY AFFIXED
- N - EXPANSION JOINT/SLEEVES

GENERAL NOTES:

- A. NAMEPLATES SHALL BE MOUNTED TO JUNCTION BOXES USING 316 STAINLESS STEEL HARDWARE.
- B. MAINTAIN MINIMUM SEPARATION REQUIRED UNDER NEC ARTICLE 504, BETWEEN INTRINSICALLY SAFE CONTROL WIRING AND NON-INTRINSICALLY SAFE MOTOR FEEDER WIRING.
- D. UNLESS OTHERWISE NOTED, ALL EXPOSED CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL.
- E. UNLESS OTHERWISE NOTED, ALL NUTS, BOLTS, SCREWS WASHERS, ETC SHALL BE TYPE 316 STAINLESS STEEL.
- F. ALL UNDERGROUND CONDUITS TO BE ENCASED IN REINFORCED CONCRETE DUCT BANK.
- G. PROVIDE ANTI-CORROSIVE SPRAY ON ANY BARE METAL PARTS OR EXPOSED WIRE.

NO.	DATE	REVISIONS	APP.

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PROJECT 4285

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

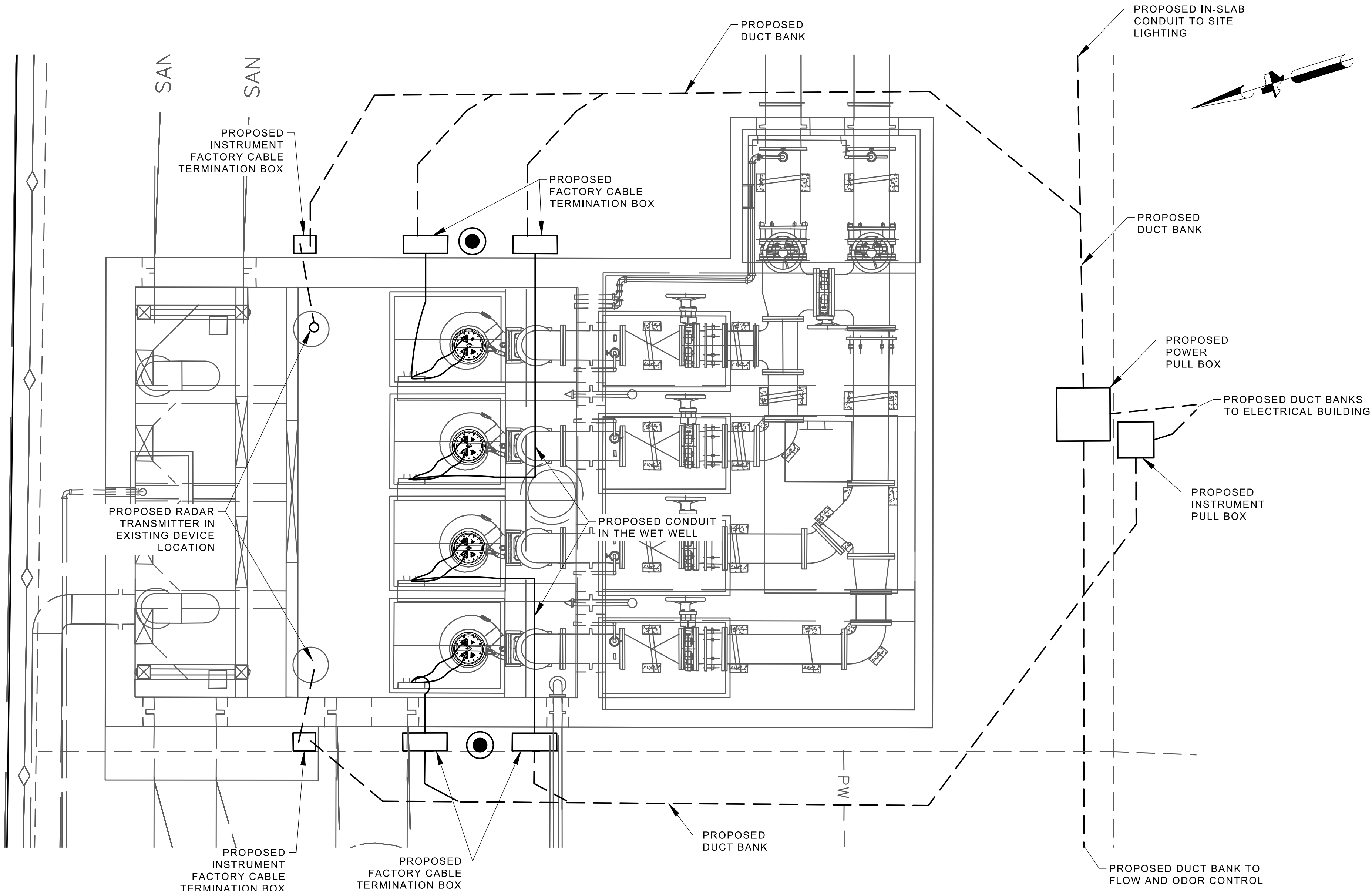
ELECTRICAL DETAILS
SHEET 6

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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 0-E-96	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL ELECTRICAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE DRY WEATHER PUMP STATION PROPOSED ELECTRICAL, INSTRUMENTATION AND CONTROL. IT DESCRIBES EQUIPMENT, AND INSTRUMENTS TO BE PROVIDED IN THIS PROJECT. SEE DETAIL DRAWINGS, DIVISION 13 AND DIVISION 15 SPECIFICATIONS FOR ALL ASPECTS OF SUPPLY.
- B. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CNP OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CNP STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.



PROPOSED DRY WEATHER PUMP STATION ENLARGED
PLAN
1/4" = 1'-0"

KGI
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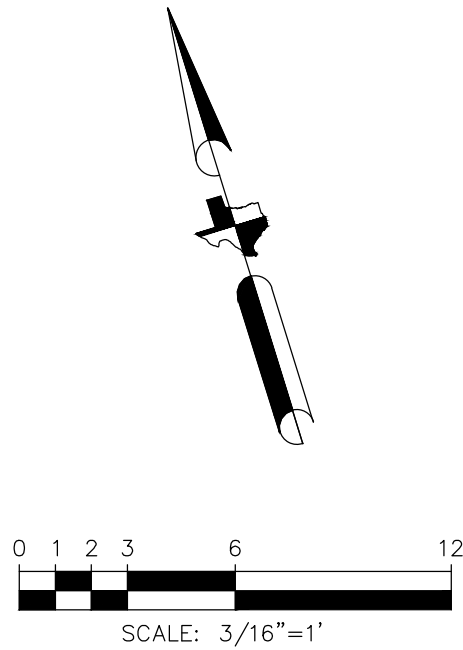
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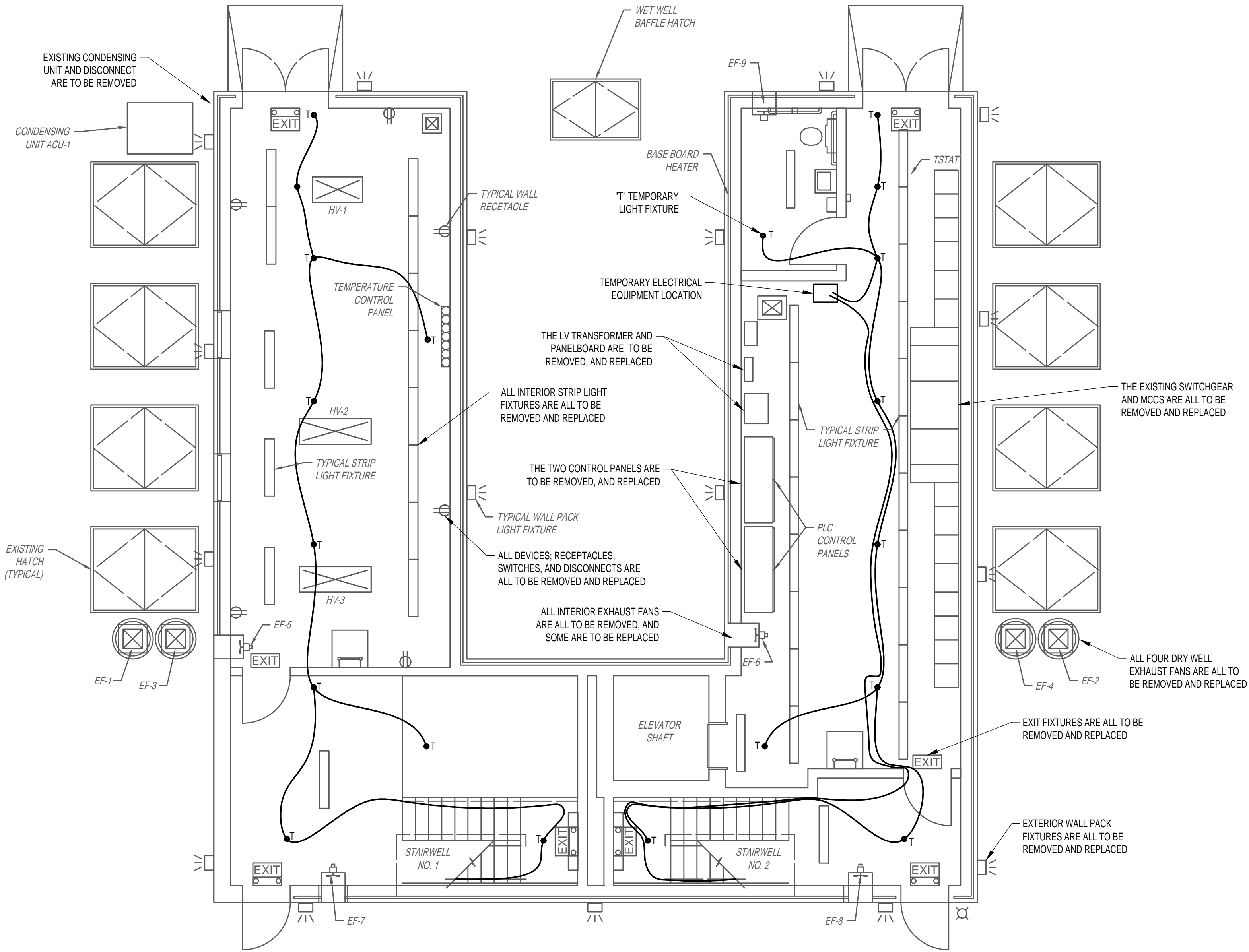
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
DRY WEATHER PUMP STATION
ENLARGED PLAN -
PROPOSED**

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- GENERAL NOTES:**
- THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION GROUND FLOOR ELECTRICAL REMOVALS AND DESCRIBE THE TASKS.
 - PERFORM AS FOUND CONDITION ASSESSMENT AND PROVIDE TEMPORARY PLAN. UPON INSTALLATION OF TEMPORARY FACILITIES REMOVALS MAY BEGIN.
 - THE WET WEATHER PUMP STATION IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, CONTROL PANELS, PANELBOARDS, MCC, AND SWITCHGEAR REMOVED.
 - ALL CONDUCTORS SHALL BE REMOVED, NO EXISTING LIGHTING OR RECEPTACLES MAY BE ENERGIZED WITH TEMPORARY POWER.
 - DRY WELL SUMP PUMPS SHALL BE PROVIDED TEMPORARY POWER AT ALL TIMES, DURATION OF THE PROJECT.
 - FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE REMOVAL AND REPLACEMENT.
 - COORDINATE A SCADA WORKSHOP PRIOR TO START OF REMOVALS TO SCHEDULE SCADA CONNECTION TRANSITIONS.



EXISTING WET WEATHER PUMP STATION GROUND LEVEL

PLAN
3/16" = 1'-0"

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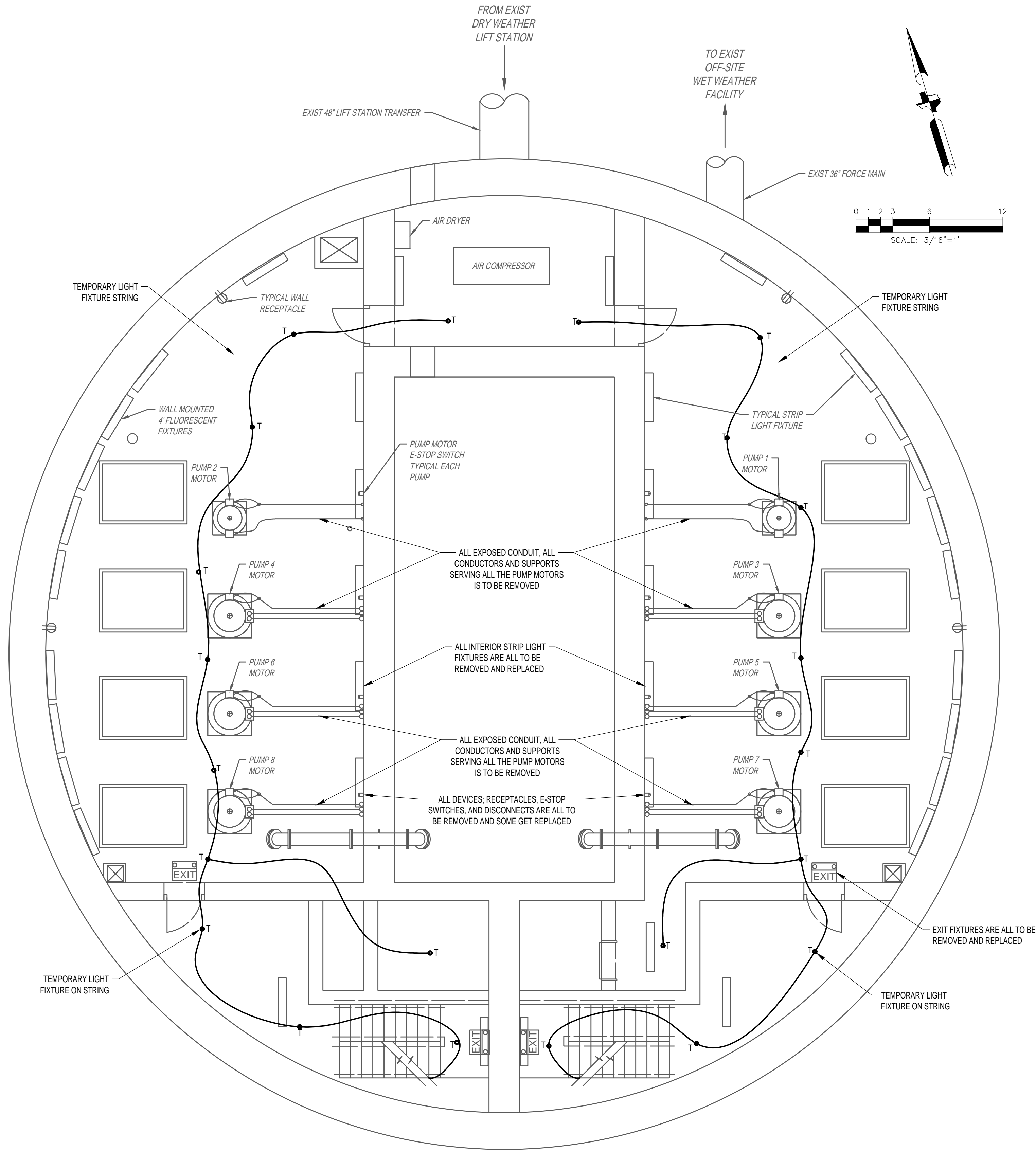
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**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
GROUND LEVEL PLAN -
EXISTING**

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EXISTING WET WEATHER PUMP STATION MOTOR LEVEL

PLAN
3/16" = 1'-0"

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION MOTOR LEVEL ELECTRICAL REMOVALS AND DESCRIBE THE TASKS.
- B. PERFORM AS FOUND CONDITION ASSESSMENT AND INCLUDE MOTOR LEVEL WORK IN THE TEMPORARY PLAN. UPON INSTALLATION OF TEMPORARY FACILITIES REMOVALS MAY BEGIN. THE TEMPORARY LIGHTING SHOWN IS THE MINIMUM NUMBER OF FIXTURES TO BE PROVIDED. COORDINATE TO PROVIDE LIGHT FOR ALL PROCESS MECHANICAL TASKS.
- C. THE WET WEATHER PUMP STATION MOTOR LEVEL IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, AND CONTROL PANELS REMOVED.
- D. ALL EXPOSED CONDUIT AND ALL CONDUCTORS SHALL BE REMOVED, NO EXISTING LIGHTING OR RECEPTACLES MAY BE ENERGIZED WITH TEMPORARY POWER.
- E. DRY WELL SUMP PUMPS SHALL BE PROVIDED TEMPORARY POWER ON THIS LEVEL, NOT THE LOWER PUMP LEVEL, AT ALL TIMES, FOR DURATION OF THE PROJECT.
- F. FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE REMOVAL AND REPLACEMENT.
- G. COORDINATE WITH OTHER TRADES PRIOR TO START OF REMOVALS TO SCHEDULE DISCONNECTIONS.

NO.	DATE	REVISIONS	APP.

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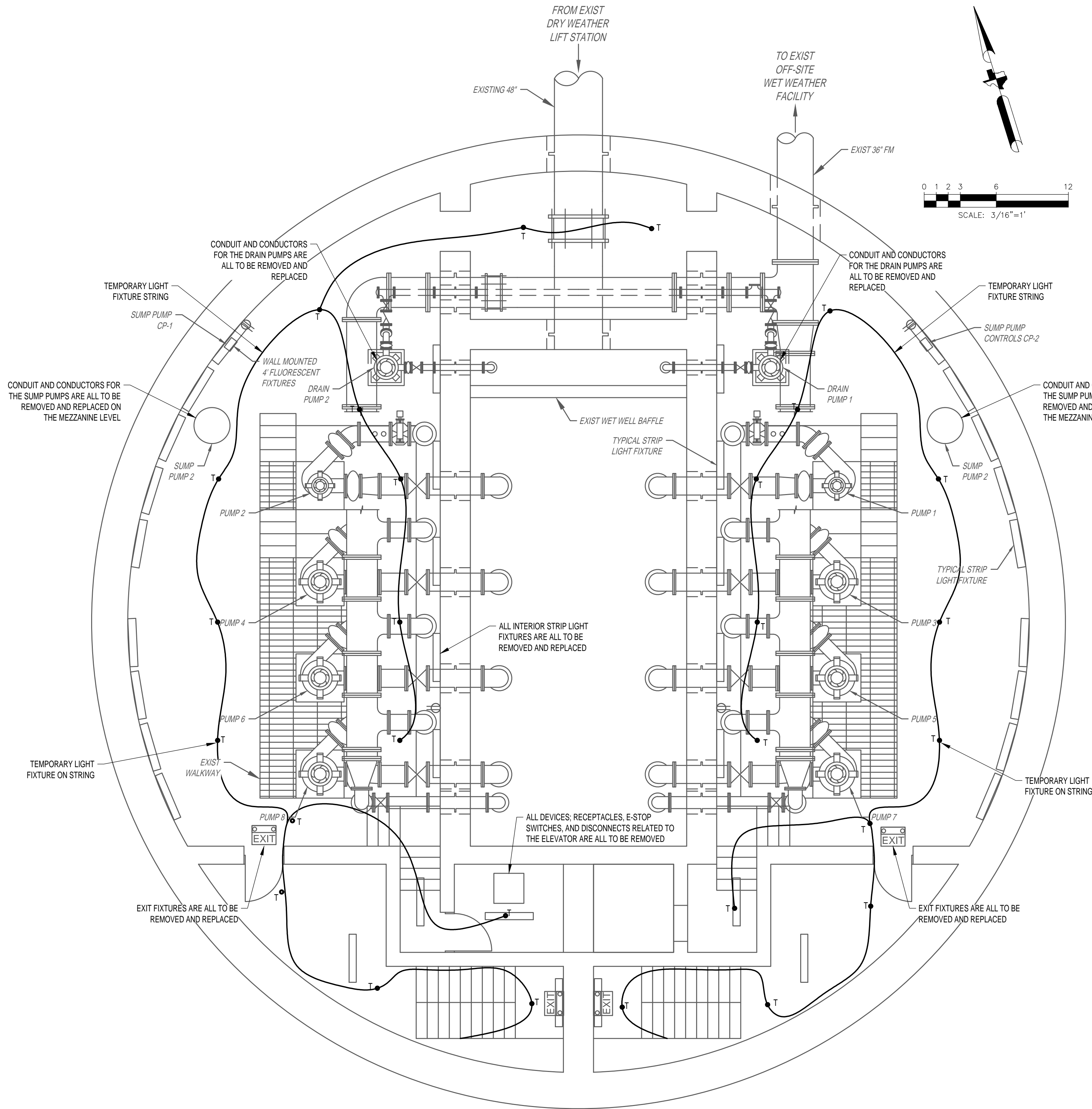
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
MOTOR LEVEL PLAN -
EXISTING

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-02	
SHEET NO. XXX OF XX	



EXISTING WET WEATHER PUMP STATION PUMP LEVEL

PLAN
3/16" = 1'-0"

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION PUMP LEVEL ELECTRICAL REMOVALS AND DESCRIBE THE TASKS.
- B. PERFORM AS FOUND CONDITION ASSESSMENT AND INCLUDE PUMP LEVEL WORK IN THE TEMPORARY PLAN. UPON INSTALLATION OF TEMPORARY FACILITIES REMOVALS MAY BEGIN. THE TEMPORARY LIGHTING SHOWN IS THE MINIMUM NUMBER OF FIXTURES TO BE PROVIDED. COORDINATE TO PROVIDE LIGHT FOR ALL PROCESS MECHANICAL TASKS.
- C. THE WET WEATHER PUMP STATION PUMP LEVEL IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, AND CONTROL PANELS REMOVED.
- D. ALL EXPOSED CONDUIT AND ALL CONDUCTORS SHALL BE REMOVED, NO EXISTING LIGHTING OR RECEPTACLES MAY BE ENERGIZED WITH TEMPORARY POWER.
- E. DRY WELL SUMP PUMPS SHALL BE PROVIDED TEMPORARY POWER ON THIS LEVEL, NOT THE LOWER PUMP LEVEL, AT ALL TIMES, FOR DURATION OF THE PROJECT.
- F. THE WET WELL DRAIN PUMPS ARE NOT INCLUDED IN THIS PROJECT FOR REPLACEMENT. EXISTING CONDUIT AND CONDUCTORS WILL BE REMOVED AND REPLACED.
- G. FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE REMOVAL AND REPLACEMENT.
- H. COORDINATE WITH OTHER TRADES PRIOR TO START OF REMOVALS TO SCHEDULE DISCONNECTIONS.

KGI  TBPE Registration No. F-665
Kalluri Group, Inc. 16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
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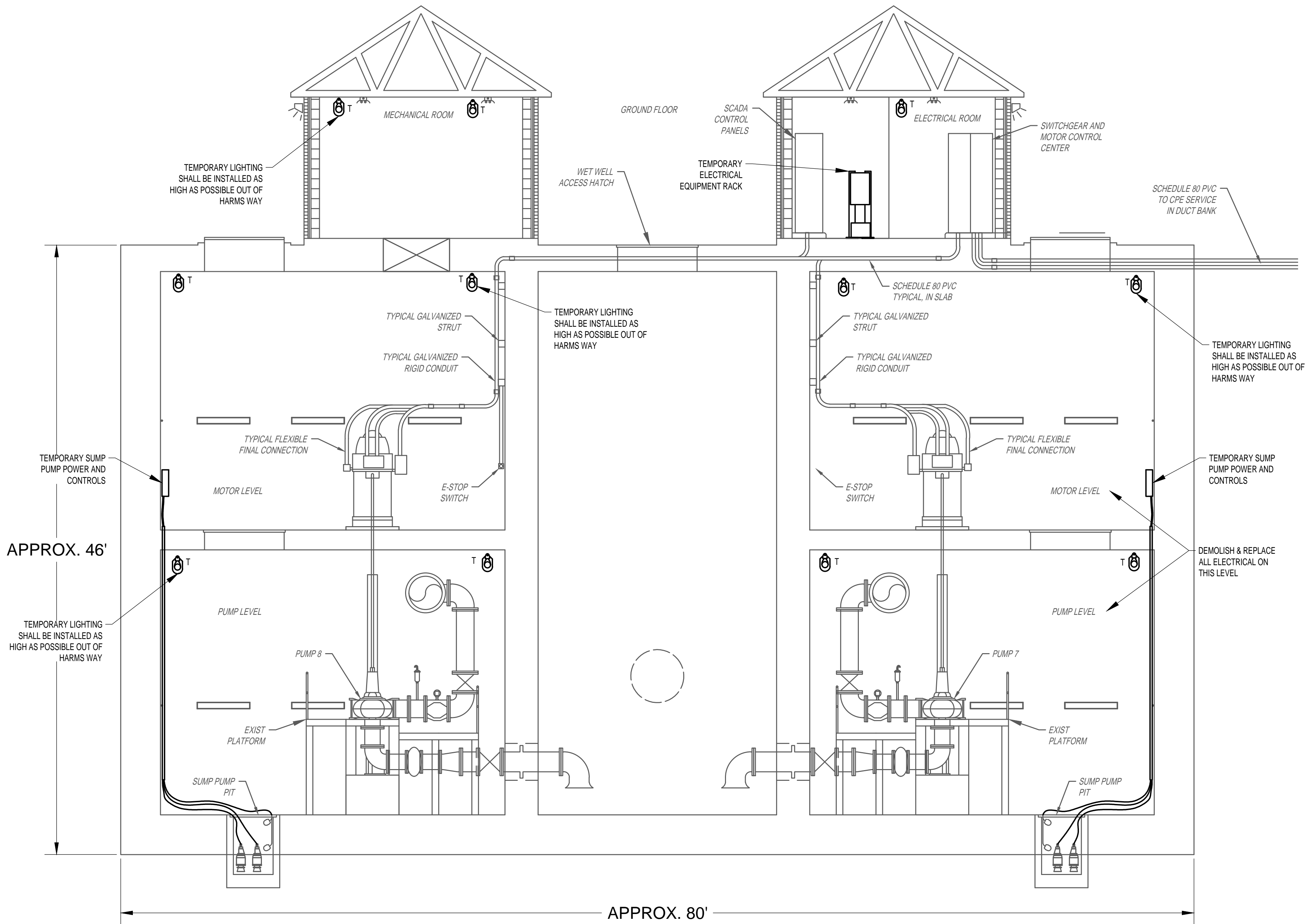
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
PUMP LEVEL PLAN -
EXISTING**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-03	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE EXISTING ELEVATIONS OF THE WET WEATHER PUMP STATION, ELECTRICAL REMOVALS, AND TEMPORARY INSTALLATIONS. TEMPORARY LIGHTING LOCATIONS ARE TO INDICATE THAT FIXTURES ARE INTENDED TO BE BELOW OBSTACLES.
- B. PERFORM AS FOUND ASSESSMENT OF CONCRETE ENCASED CONDUIT ROUTINGS, TO FACILITATE PROPOSED ELECTRICAL INSTALLATIONS, EMBEDDED CONDUIT MAY BE UTILIZED WITH RFI ACCEPTANCE. FIND ROUTES BETWEEN FLOORS, PANELS AND EQUIPMENT, TO SAVE CORING NEW HOLES. PROVIDE TEMPORARY FACILITIES PRIOR TO ANY CONDUCTOR REMOVALS.
- C. ALL PUMP SYSTEMS CONDUIT AND CONDUCTORS SHALL BE REMOVED, NO EXISTING LIGHTING OR RECEPTACLES MAY BE ENERGIZED WITH TEMPORARY POWER.
- D. DRY WELL SUMP PUMPS SHALL BE PROVIDED TEMPORARY POWER AT ALL TIMES, DURATION OF THE PROJECT.
- E. FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE CONDUCTOR REMOVAL AND REPLACEMENT PROJECT.
- F. COORDINATE A SCADA WORKSHOP PRIOR TO START OF REMOVALS TO SCHEDULE SCADA CONNECTION TRANSITIONS.



EXISTING WET WEATHER PUMP STATION

SECTION
1" = 5'-0"

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JOB NO: 00050-0099-01 DATE: 1/19/2026

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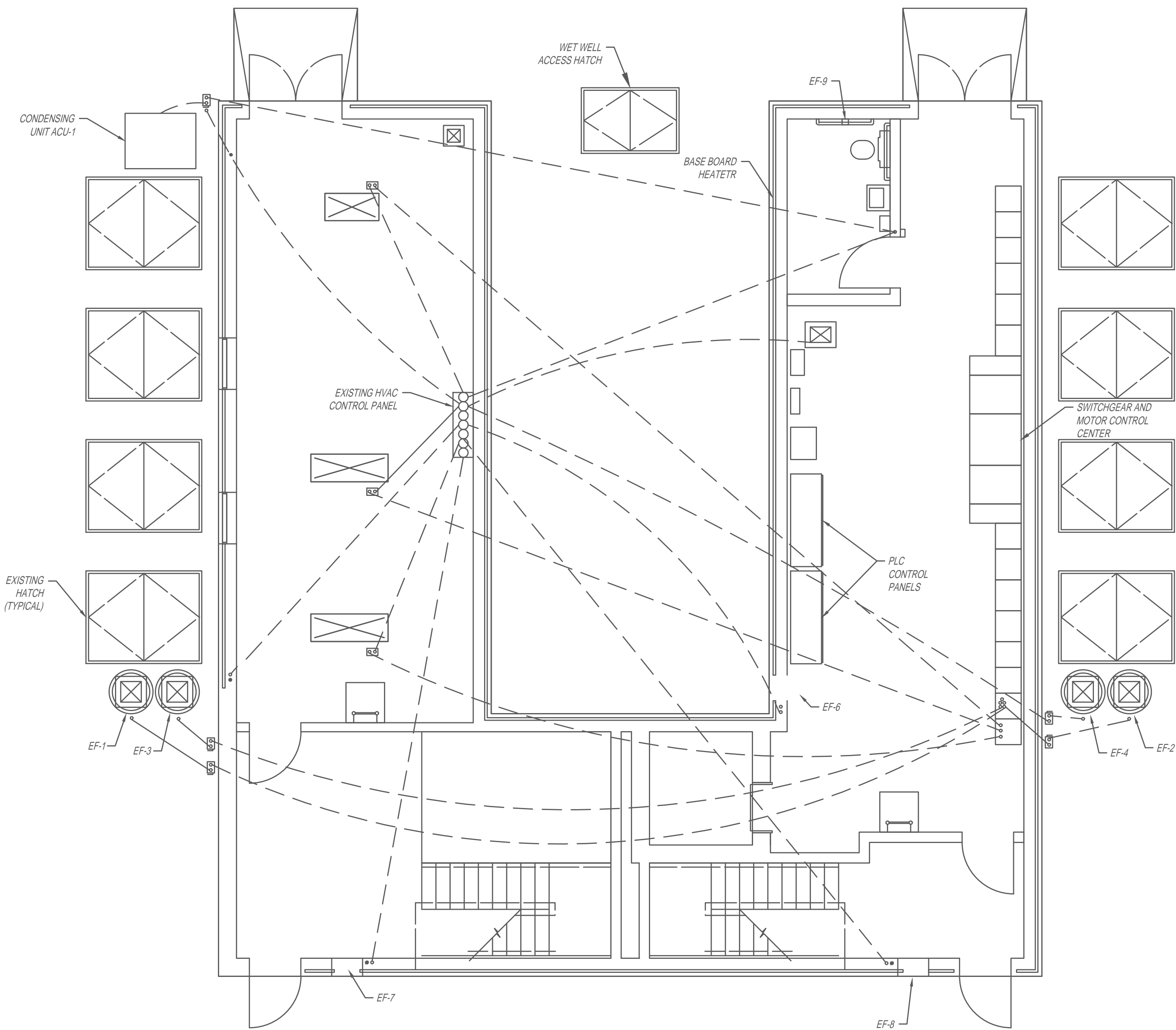
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HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL**

**WET WEATHER PUMP STATION
SECTION - EXISTING**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-04	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.



GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION GROUND FLOOR HVAC IN-SLAB CONDUITS.
- B. CONTRACTOR SHALL REMOVE EXISTING HVAC EXPOSED CONDUIT/CONDUCTORS AND PROVIDE NEW HVAC CONDUIT AND CONDUCTORS. PERFORM AS FOUND CONDITION ASSESSMENT AND DETERMINE IF EMBEDDED CONDUITS WILL BE CUT DURING NEW SAW CUTTING OF STRUCTURE. EXISTING EMBEDDED CONDUITS MAY BE UTILIZED FOR PROPOSED WORK. PROVIDE TEMPORARY FACILITIES PRIOR TO REMOVALS.
- C. FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE REMOVAL AND REPLACEMENT.
- D. COORDINATE WITH HVAC PRIOR TO START OF REMOVALS TO SCHEDULE SCADA CONNECTION TRANSITIONS.

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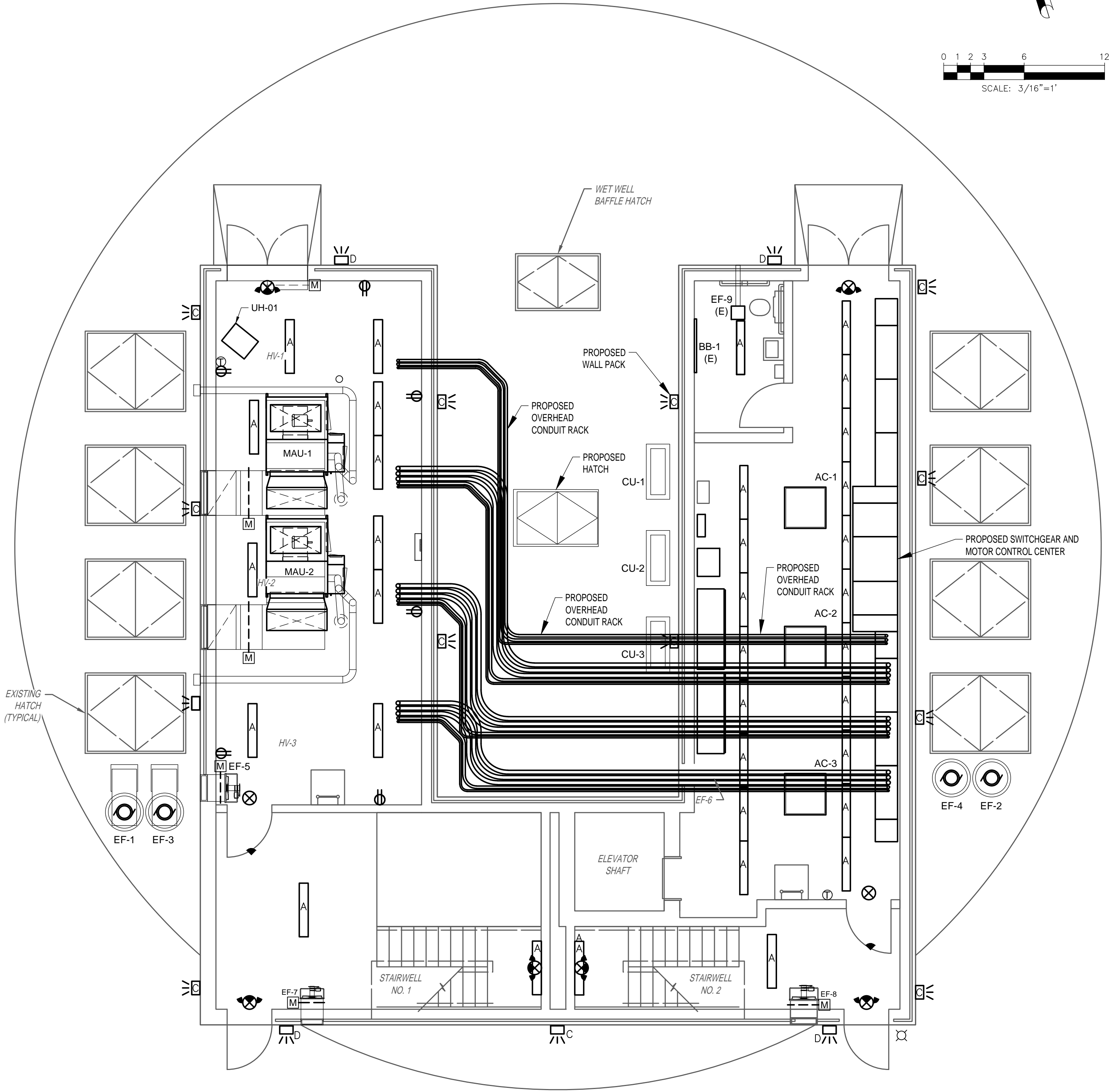
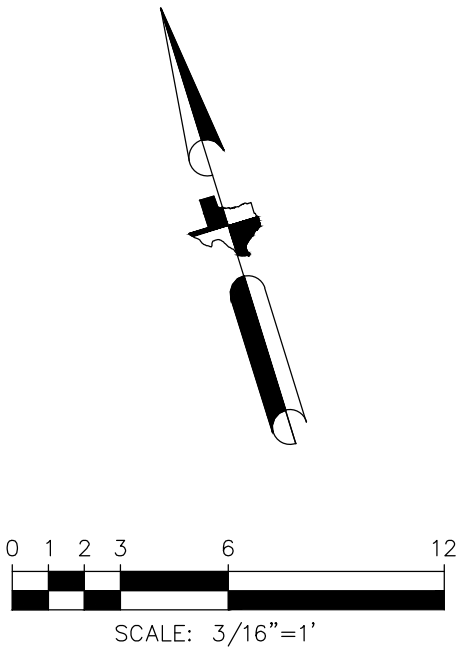
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
GROUND LEVEL HVAC CONDUIT PLAN -
EXISTING

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-05	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.



PROPOSED WET WEATHER PUMP STATION GROUND LEVEL

PLAN
3/16" = 1'-0"

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION GROUND FLOOR PROPOSED ELECTRICAL CONDITION, AND DESCRIBE TASKS.
- B. PROVIDE A COMPLETE AND WORKING WET WEATHER LIFT STATION IN COMPLIANCE WITH THE, CURRENT AT THE TIME OF BID, GUIDELINES.
- C. THE WET WEATHER PUMP STATION IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, CONTROL PANELS, PANELBOARDS, MCC, AND SWITCHGEAR PROVIDED IN COMPLIANCE WITH THE RELATED SPECIFICATIONS AND APPROVED SHOP DRAWING SUBMITTALS.
- D. ALL EXPOSED CONDUIT AND CONDUCTORS SHALL BE NEW. ALL LIGHTING, RECEPTACLES, AND EQUIPMENT SHALL BE CLEAN AND PROVIDED NAMEPLATES PER SPECIFICATIONS.
- E. COORDINATE WITH OTHERS TO PROVIDE HVAC POWER AND LOW VOLTAGE CONDUIT AND CONDUCTORS, AS REQUIRED PER HVAC RISER DIAGRAM.
- F. FOR CLARITY NOT ALL ITEMS REQUIRED ARE ILLUSTRATED HERE; SEE SITE PLANS, ONE LINE DIAGRAMS, SCHEDULES, AND DETAILS FOR COMPLETE REPLACEMENT REQUIREMENTS.
- G. COORDINATE WITH SCADA GROUP THROUGH THE WORKSHOPS AND PRIOR TO START TO ENSURE ALL CURRENT SCADA DEVICES AND CONNECTIONS ARE PROVIDED.

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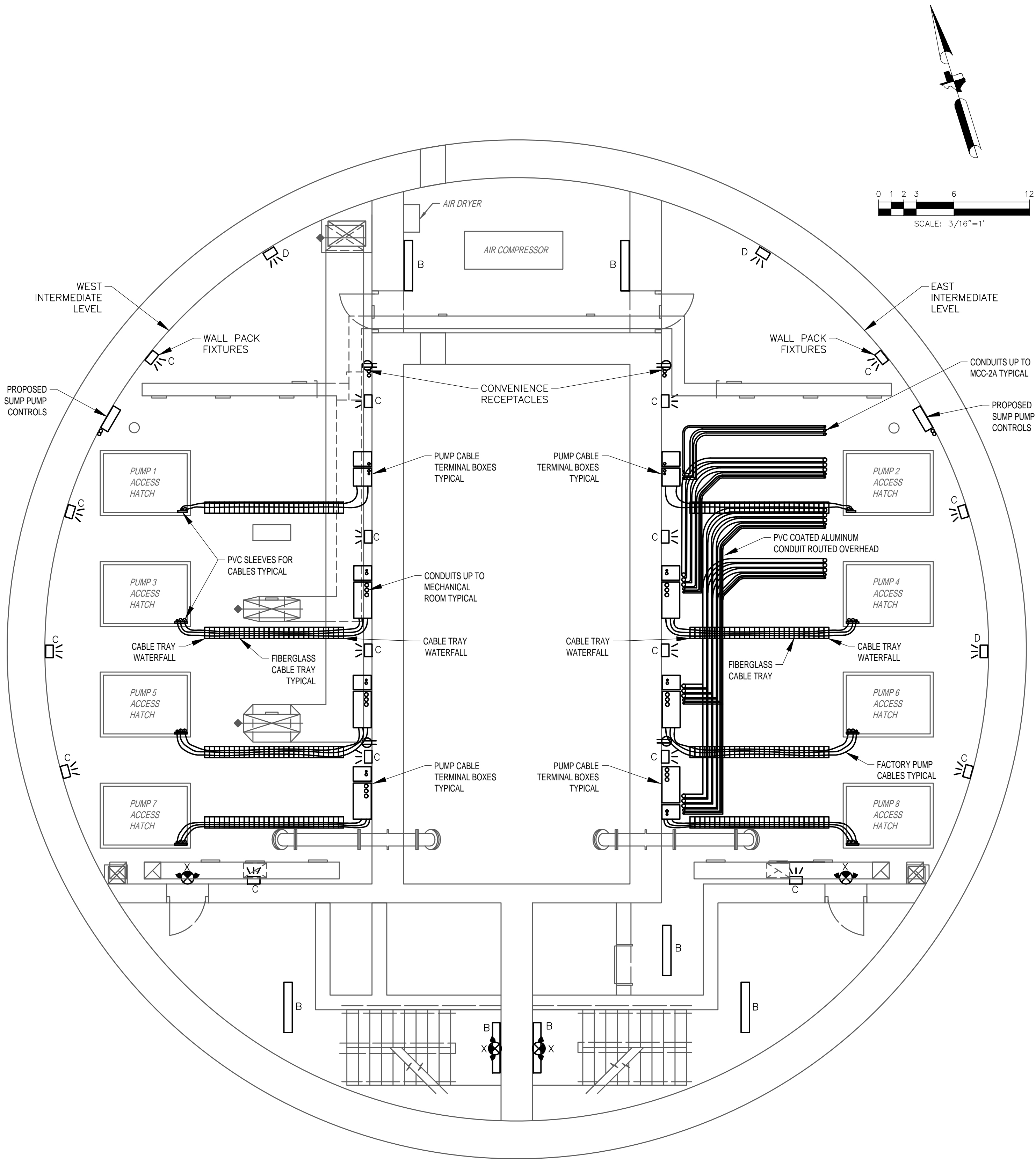
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**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
GROUND LEVEL PLAN -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-11	
SHEET NO. XXX OF XX	



0 1 2 3 6 12
SCALE: 3/16"=1'

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION INTERMEDIATE LEVEL PROPOSED ELECTRICAL CONDITION, AND DESCRIBE TASKS.
- B. PROVIDE A COMPLETE AND WORKING WET WEATHER LIFT STATION IN COMPLIANCE WITH THE, CURRENT GUIDELINES AT THE TIME OF BID, GUIDELINES.
- C. THE WET WEATHER PUMP STATION IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, CONTROL PANELS, PANELBOARDS, MCC, AND SWITCHGEAR PROVIDED IN COMPLIANCE WITH THE RELATED SPECIFICATIONS AND APPROVED SHOP DRAWING SUBMITTALS.
- D. ALL EXPOSED CONDUIT AND CONDUCTORS SHALL BE NEW. ALL LIGHTING, RECEPTACLES, AND EQUIPMENT SHALL BE CLEAN AND PROVIDED NAMEPLATES PER SPECIFICATIONS.
- E. COORDINATE WITH OTHERS TO PROVIDE HVAC POWER AND LOW VOLTAGE CONDUIT AND CONDUCTORS, AS REQUIRED PER HVAC RISER DIAGRAM.
- F. FOR CLARITY NOT ALL ITEMS REQUIRED ARE ILLUSTRATED HERE; SEE SITE PLANS, ONE LINE DIAGRAMS, SCHEDULES, AND DETAILS FOR COMPLETE REPLACEMENT REQUIREMENTS.
- G. COORDINATE WITH SCADA GROUP THROUGH THE WORKSHOPS AND PRIOR TO START TO ENSURE ALL CURRENT SCADA DEVICES AND CONNECTIONS ARE PROVIDED.

NO.	DATE	REVISIONS	APP.

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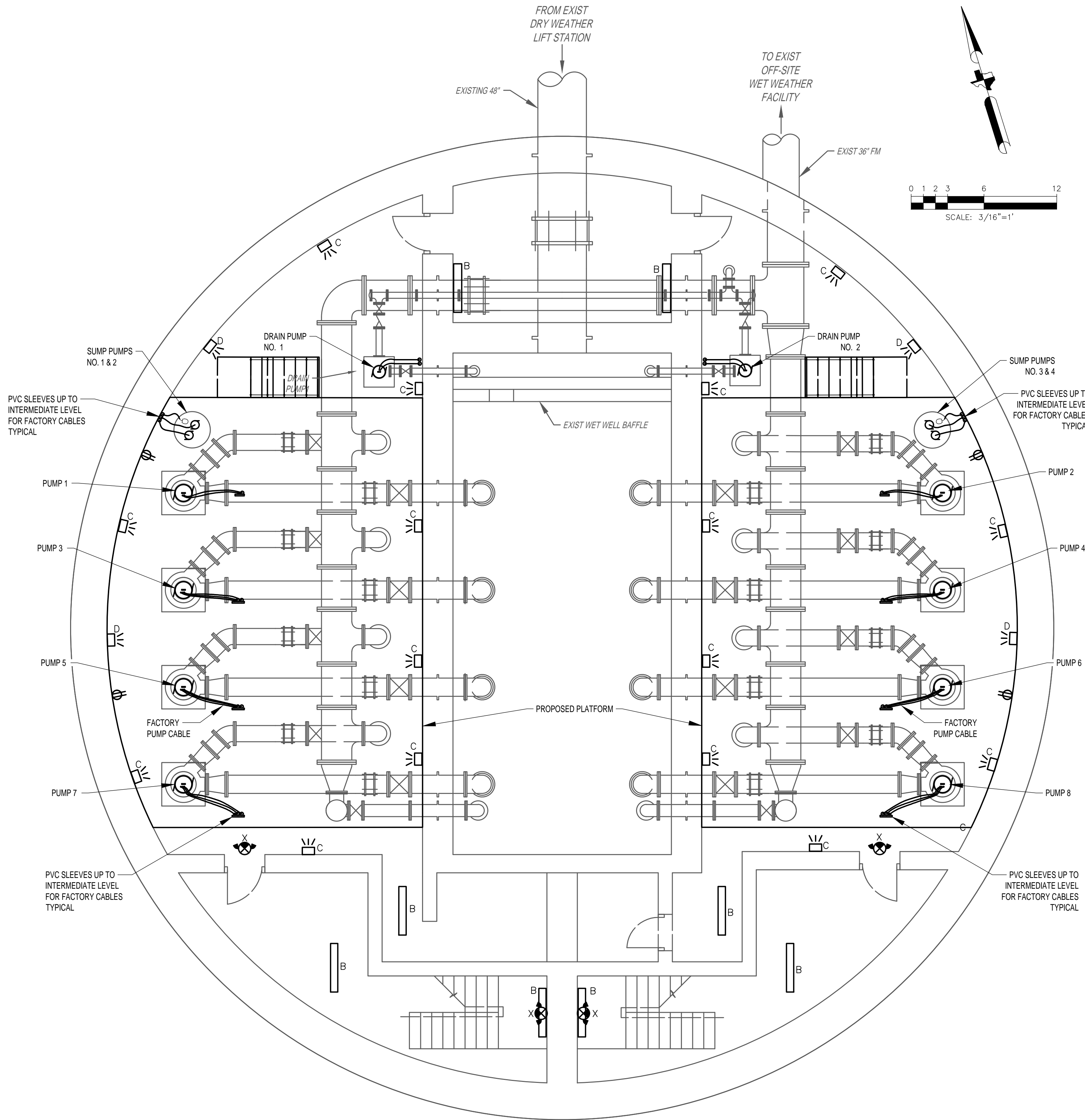
SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
MEZZANINE LEVEL PLAN -
PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-12	
SHEET NO. XXX OF XX	

PROPOSED WET WEATHER PUMP STATION MEZZANINE LEVEL

PLAN

3/16" = 1'-0"



PROPOSED WET WEATHER PUMP STATION LOWER LEVEL

PLAN
3/16" = 1'-0"

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION LOWER LEVEL PROPOSED ELECTRICAL CONDITION, AND DESCRIBE TASKS.
- B. PROVIDE A COMPLETE AND WORKING WET WEATHER LIFT STATION IN COMPLIANCE WITH THE, CURRENT AT THE TIME OF BID, GUIDELINES.
- C. THE WET WEATHER PUMP STATION LOWER LEVEL IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, CONDUIT AND CONDUCTORS PROVIDED IN COMPLIANCE WITH THE RELATED SPECIFICATIONS AND APPROVED SHOP DRAWING SUBMITTALS.
- D. ALL EXPOSED CONDUIT AND CONDUCTORS SHALL BE NEW. ALL LIGHTING, RECEPTACLES, AND EQUIPMENT SHALL BE CLEAN AND PROVIDED NAMEPLATES PER SPECIFICATIONS AT TIME OF TESTING AND COMMISSIONING.
- E. FOR CLARITY NOT ALL CONDUIT REQUIRED IS ILLUSTRATED HERE. EXISTING CONCRETE EMBEDDED CONDUIT MAY BE UTILIZED FOR PROPOSED WORK.
- F. COORDINATE WITH SCADA GROUP THROUGH THE WORKSHOPS AND PRIOR TO START TO ENSURE ALL DEVICES AND CONNECTIONS ARE PROVIDED.

NO.	DATE	REVISIONS	APP.

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Kalluri Group, Inc.

TBPE Registration No. F-665
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Phone: (713)-365-9288
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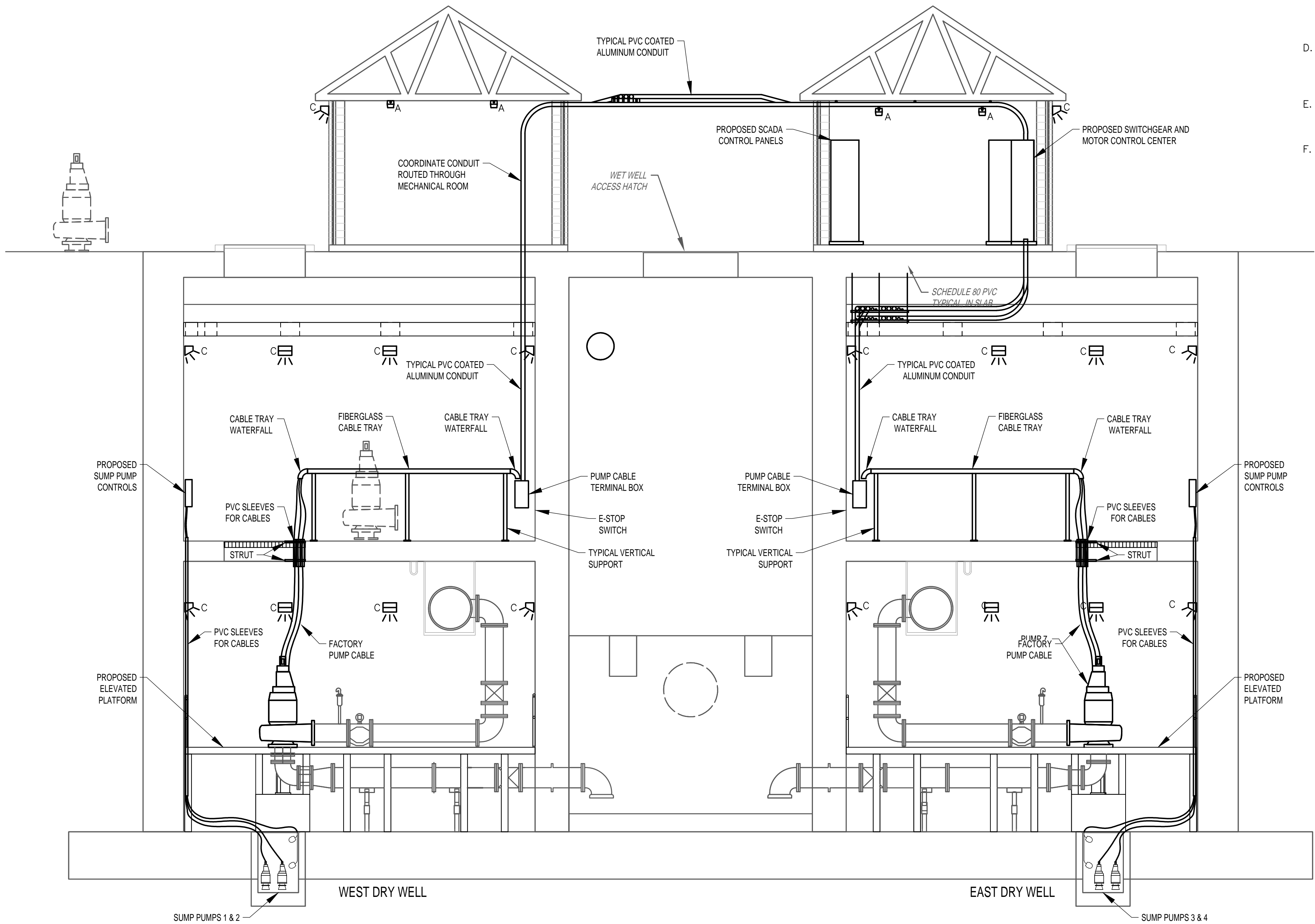
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
LOWER LEVEL PLAN -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-13	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE ELEVATIONS OF THE WET WEATHER PUMP STATION, PROPOSED ELECTRICAL CONDITION, AND DESCRIBE TASKS.
- B. PROVIDE A COMPLETE AND WORKING WET WEATHER LIFT STATION IN COMPLIANCE WITH THE, CURRENT AT THE TIME OF BID, GUIDELINES.
- C. THE WET WEATHER PUMP STATION LOWER LEVEL IS TO HAVE ALL ELECTRICAL DEVICES, LIGHTING, CONDUIT AND CONDUCTORS PROVIDED IN COMPLIANCE WITH THE RELATED SPECIFICATIONS AND APPROVED SHOP DRAWING SUBMITTALS.
- D. ALL EXPOSED CONDUIT AND CONDUCTORS SHALL BE NEW. ALL LIGHTING, RECEPTACLES, AND EQUIPMENT SHALL BE CLEAN AND PROVIDED NAMEPLATES PER SPECIFICATIONS AT TIME OF TESTING AND COMMISSIONING.
- E. FOR CLARITY NOT ALL CONDUIT REQUIRED IS ILLUSTRATED HERE. EXISTING CONCRETE EMBEDDED CONDUIT MAY BE UTILIZED FOR PROPOSED WORK.
- F. COORDINATE WITH SCADA GROUP THROUGH THE WORKSHOPS AND PRIOR TO START TO ENSURE ALL DEVICES AND CONNECTIONS ARE PROVIDED.



PROPOSED WET WEATHER PUMP STATION

SECTION

1" = 5'-0"

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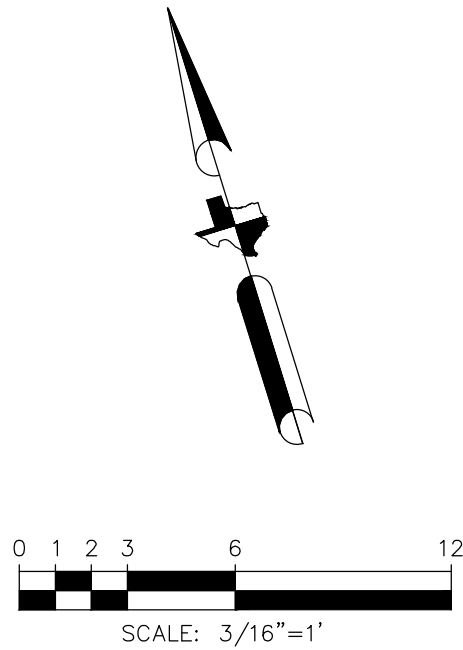
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SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL

WET WEATHER PUMP STATION
SECTION - PROPOSED

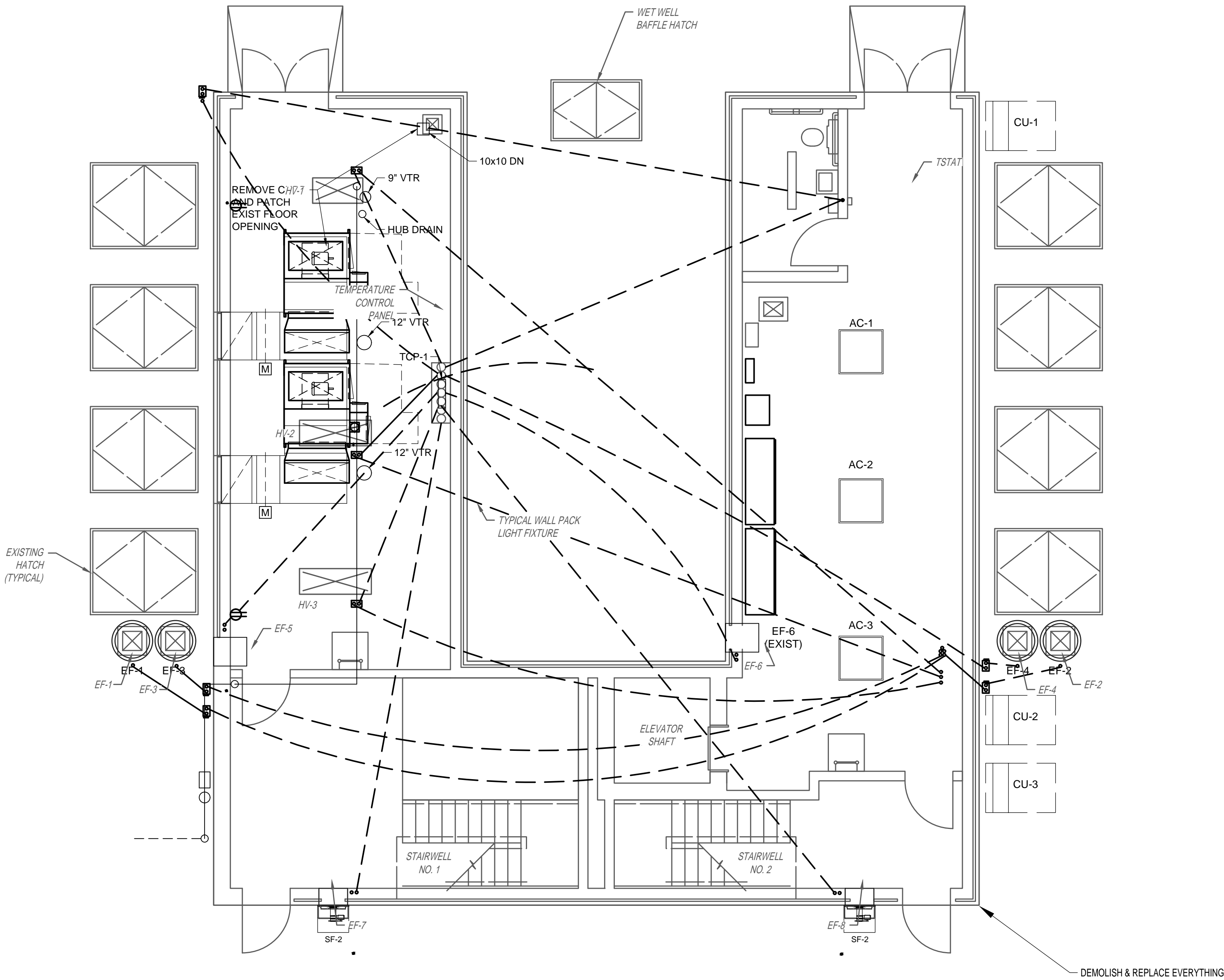
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R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-14	
SHEET NO. XXX OF XX	



NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE WET WEATHER PUMP STATION GROUND FLOOR HVAC IN-SLAB CONDUITS.
- B. CONTRACTOR SHALL COORDINATE TO PROVIDE HVAC EXPOSED CONDUIT AND CONDUCTORS. MONITOR EMBEDDED CONDUITS THAT ARE CUT DURING CONSTRUCTION AND REPLACE THEM. DETERMINE EXISTING EMBEDDED CONDUITS THAT MAY BE UTILIZED FOR PROPOSED WORK. PROVIDE TEMPORARY FACILITIES PRIOR TO REMOVALS.
- C. FOR CLARITY NOT ALL ITEMS REQUIRING REMOVAL AND REPLACEMENT ARE ILLUSTRATED HERE. IT IS A COMPLETE REMOVAL AND REPLACEMENT.
- D. COORDINATE WITH HVAC PRIOR TO START OF REMOVALS TO SCHEDULE SCADA CONNECTION TRANSITIONS.



PROPOSED WET WEATHER PUMP STATION GROUND LEVEL HVAC

PLAN

3/16" = 1'-0"

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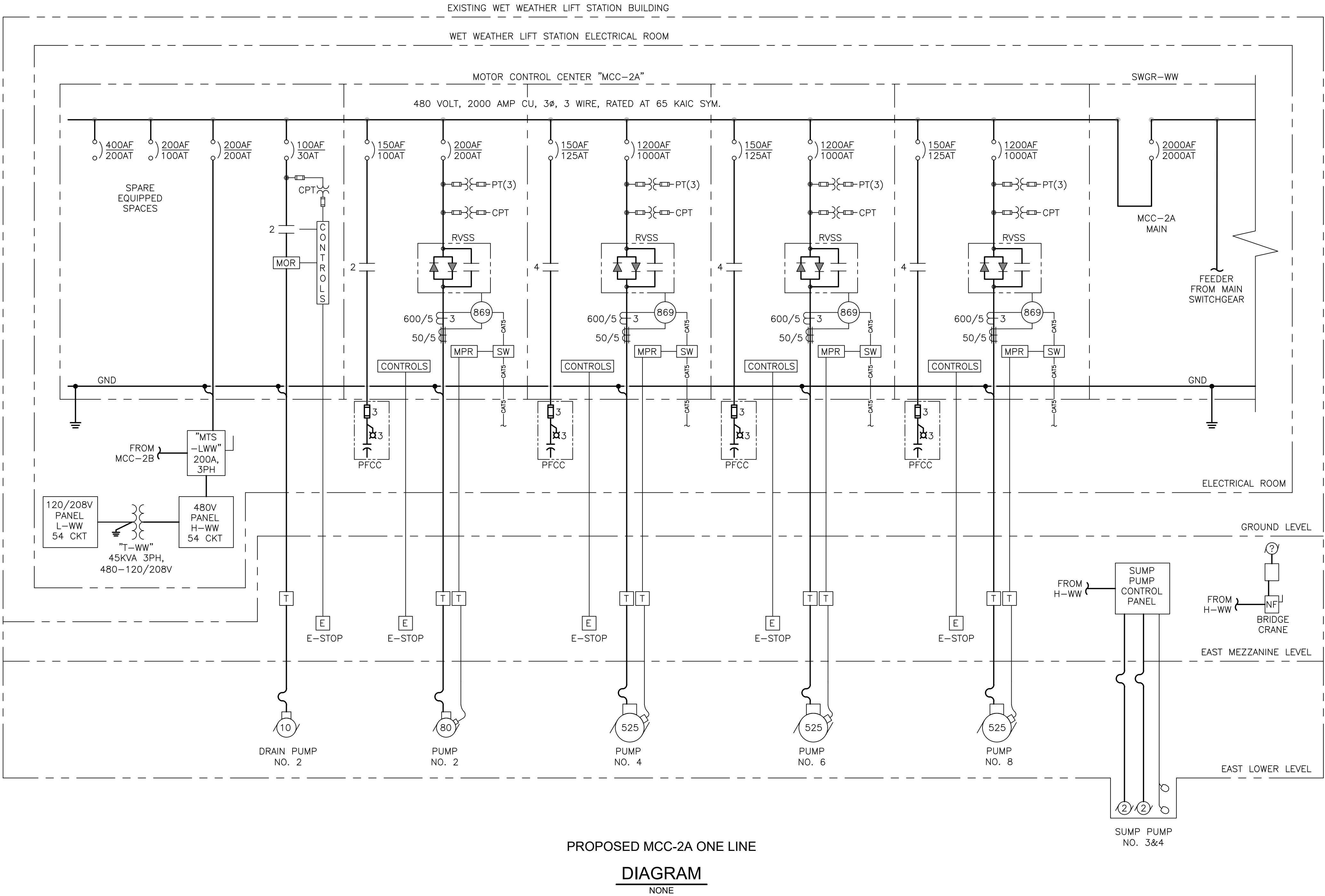
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
GROUND LEVEL HVAC PLAN -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-15	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.


GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE A SECTION OF THE WET WEATHER PUMP STATION MCC-2.



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JOB NO: 00050-0099-01 DATE: 1/19/2026

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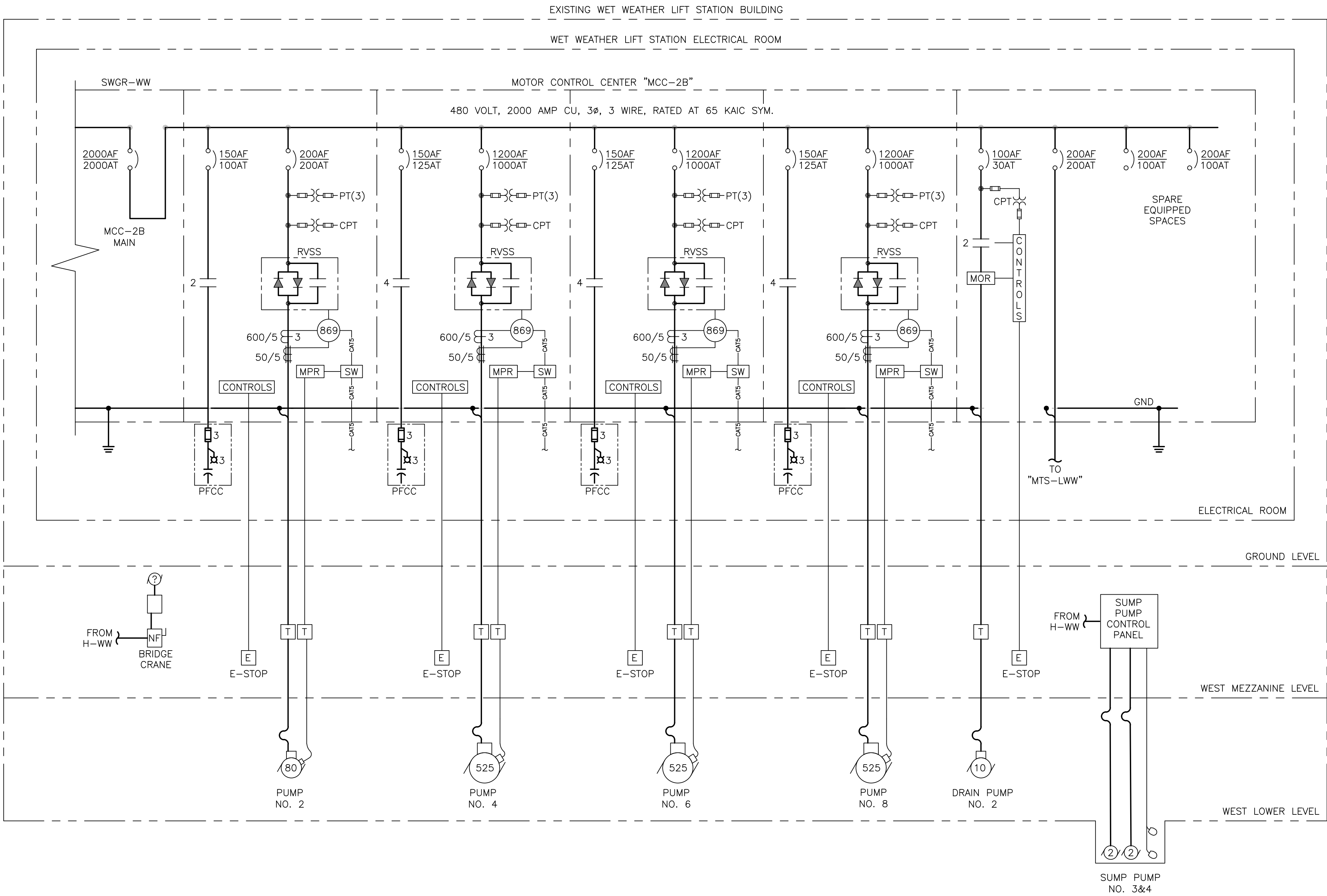
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
MCC-2A ONE LINE DIAGRAM -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-21	
SHEET NO. XXX OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE B SECTION OF THE WET WEATHER PUMP STATION MCC-2.



PROPOSED MCC-2B ONE LINE

DIAGRAM
NONE

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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

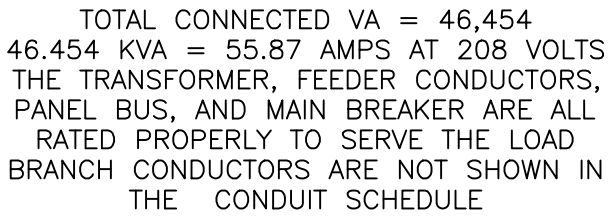
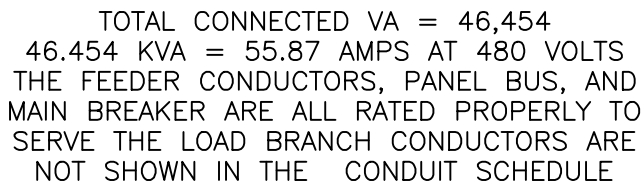
JOB NO: 00050-0099-01	DATE: 1/19/2026
APPROVED BY:	<p>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</p> <p>STACY L. JORDAN LICENSE NO. 148233 JANUARY 19, 2026 IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</p>
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DESIGNED BY:	
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
WET WEATHER PUMP STATION
MCC-2B ONE LINE DIAGRAM -
PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-E-22	
SHEET NO. XXX OF XX	

- ① BREAKER SHALL BE PROVIDED "FACTORY" PAD LOCK PROVISIONS.
- ② SEE SPECIFICATION 16290 FOR SURGE PROTECTION DEVICE REQUIREMENTS.

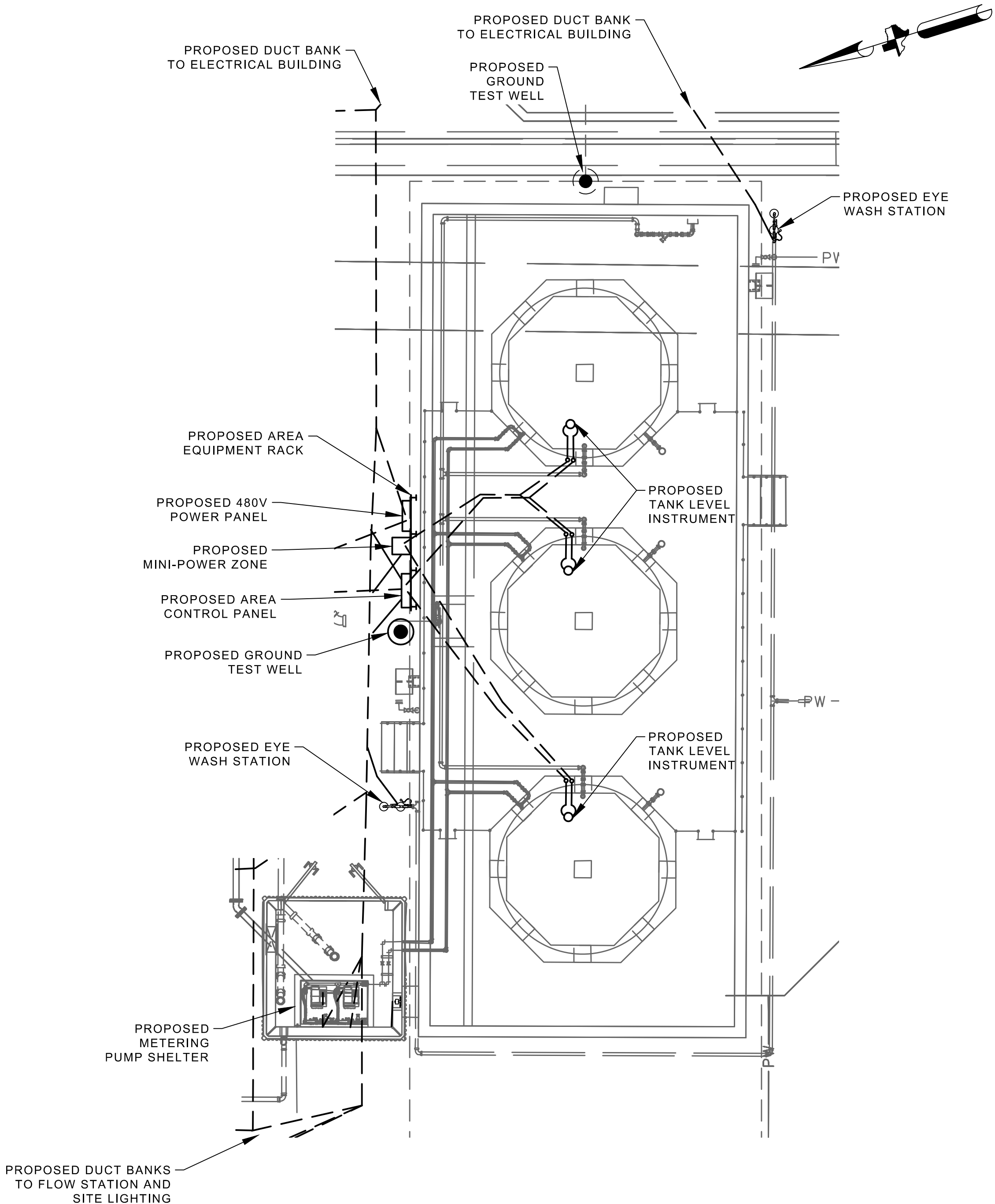


  	
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 8350 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5377	
JOB No: <u>00050-0099-01</u> DATE: <u>1/19/2026</u>	
APPROVED BY:	<p>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</p> <p>STACY L. JORDAN LICENSE NO. 148233</p> <p>JANUARY 19, 2026</p> <p>IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</p>
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FB No. XXXXXX	
<h1>CITY OF HOUSTON</h1> <p>HOUSTON PUBLIC WORKS</p>	
<p>SCOTT STREET NO. 1 LIFT STATION REHABILITATION ELECTRICAL WET WEATHER PUMP STATION PANELBOARD SCHEDULES - PROPOSED</p>	
WBS NUMBER R-000267-127A-4 DRAWING SCALE AS NOTED CITY OF HOUSTON PM TAHA LOTIA DWG NO. 2-E-23 SHEET NO. XXX OF XX	FOR CITY OF HOUSTON USE ONLY

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE PROPOSED CHEMICAL STORAGE AND FEED AREAS. SEE DIVISION 13 AND 16 SPECIFICATIONS FOR ALL PROPOSED WORK AND EQUIPMENT REQUIREMENTS.
- B. CONTRACTOR SHALL COORDINATE PRIOR TO THE BID TO INCLUDE ALL ELECTRICAL INSTRUMENTATION AND CONTROL REQUIRED FOR CONTRACTORS CHOSEN CHEMICAL EQUIPMENT.
- C. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CPE OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CPE STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.
- D. TEMPORARY PROVISIONS ARE TO REMAIN IN SERVICE WHILE PROPOSED WORK, INCLUDING POWER, CONTROLS, SCADA AND COMMUNICATIONS, IS TESTED AND ACCEPTED.



CHEMICAL FEED AND STORAGE FACILITY ENLARGED PLAN

PLAN

1" = 5'-0"

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

 **QUIDDITY**

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

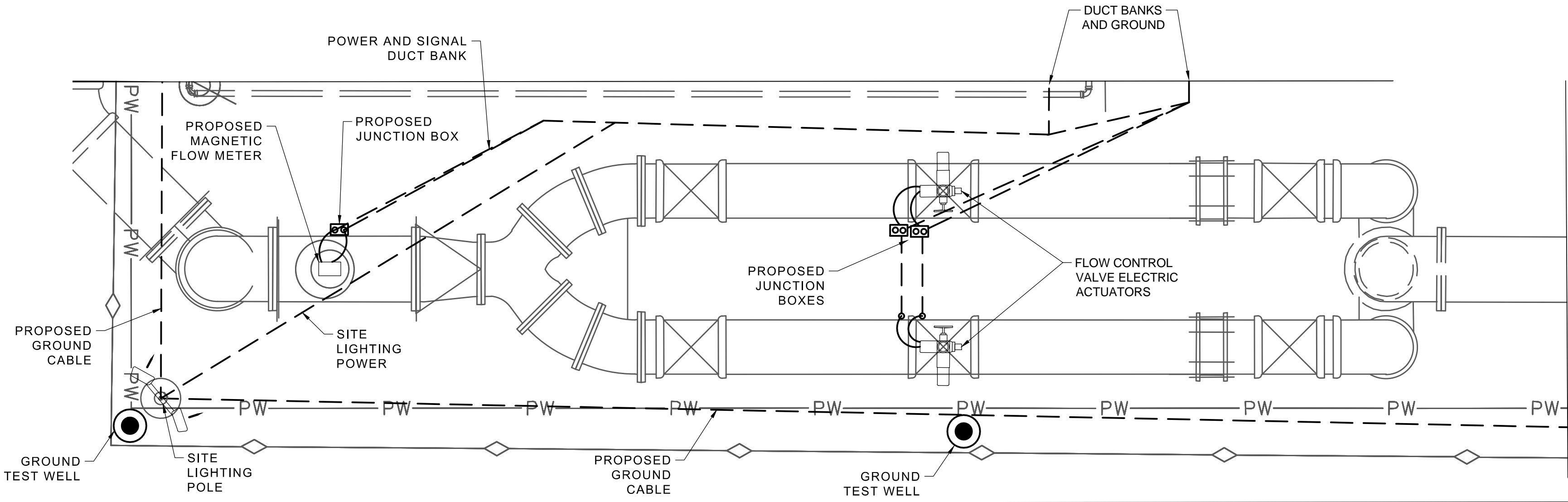
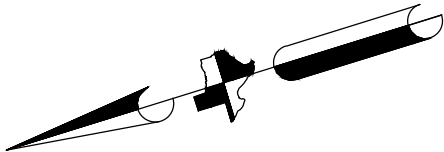
SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
CHEMICAL FEED AND STORAGE
FACILITY ENLARGED PLAN -
PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 3-E-01	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE PROPOSED FLOW CONTROL AND METERING AREA. SEE DIVISION 13 AND 16 SPECIFICATIONS FOR ALL PROPOSED WORK AND EQUIPMENT REQUIREMENTS.
- B. CONTRACTOR SHALL COORDINATE PRIOR TO THE BID TO INCLUDE ALL ELECTRICAL INSTRUMENTATION AND CONTROL REQUIRED FOR CONTRACTORS CHOSEN EQUIPMENT.
- C. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CPE OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CPE STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.
- D. TEMPORARY PROVISIONS ARE TO REMAIN IN SERVICE WHILE PROPOSED WORK, INCLUDING POWER, CONTROLS, SCADA AND COMMUNICATIONS, IS TESTED AND ACCEPTED.



PROPOSED FLOW CONTROL STATION ENLARGED

PLAN
1" = 5'-0"



TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285



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JOB NO: 00050-0099-01 DATE: 1/19/2026

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CITY OF HOUSTON
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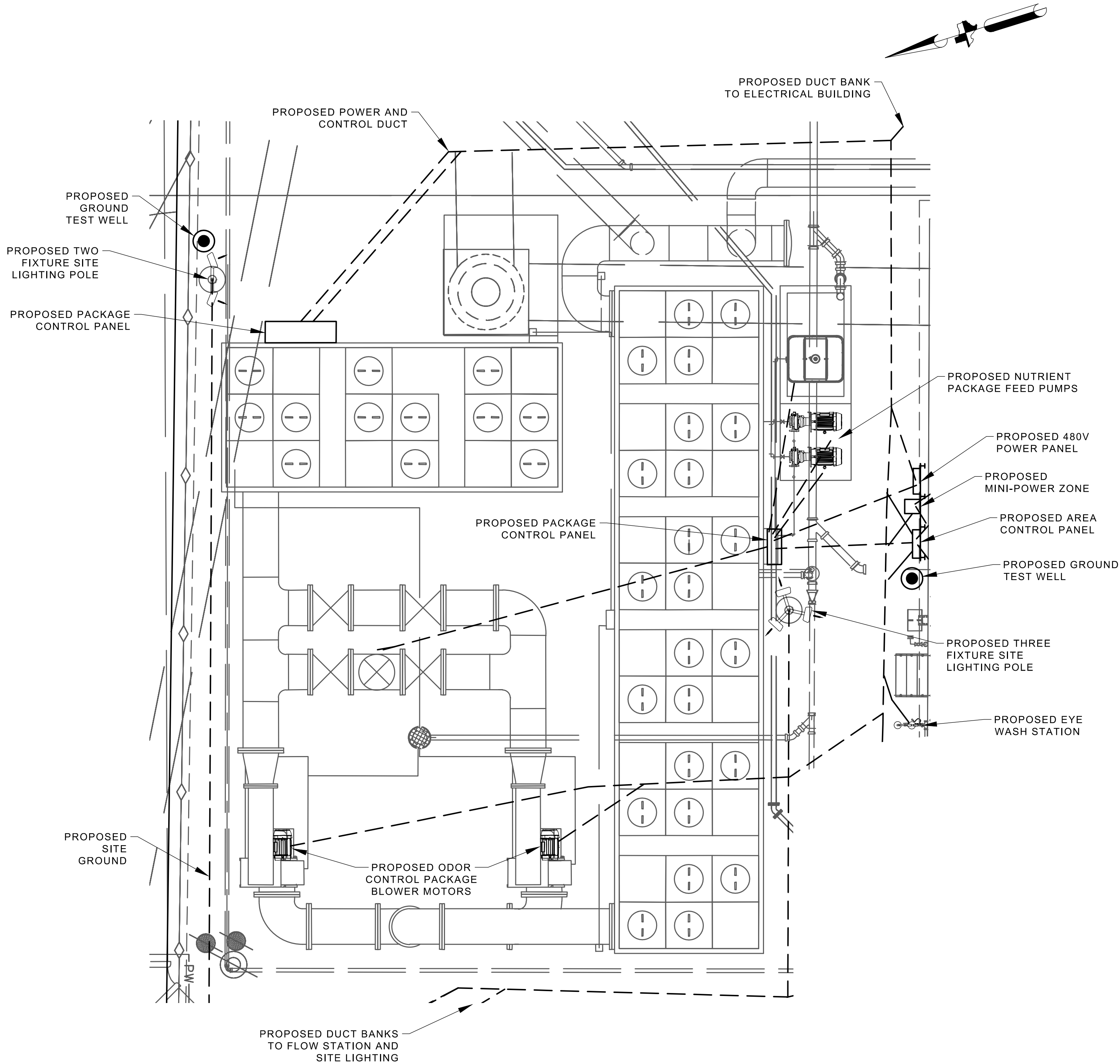
SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
FLOW CONTROL STATION
ENLARGED PLAN -
PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 4-E-01	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE PROPOSED ODOR CONTROL PACKAGE AREA. SEE DIVISION 13 AND 16 SPECIFICATIONS FOR ALL PROPOSED WORK AND EQUIPMENT REQUIREMENTS.
- B. CONTRACTOR SHALL COORDINATE PRIOR TO THE BID TO INCLUDE ALL ELECTRICAL INSTRUMENTATION AND CONTROL REQUIRED FOR CONTRACTORS CHOSEN ODOR CONTROL EQUIPMENT.
- C. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CPE OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CPE STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.
- D. TEMPORARY PROVISIONS ARE TO REMAIN IN SERVICE WHILE PROPOSED WORK, INCLUDING POWER, CONTROLS, SCADA AND COMMUNICATIONS, IS TESTED AND ACCEPTED.



PROPOSED ODOR CONTROL SYSYEM ENLARGED

PLAN

1" = 5'-0"

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
ODOR CONTROL SYSTEM
ENLARGED PLAN -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 5-E-01	
SHEET NO. OF XX	

NEW PANELBOARD "H-OC"
IS TO BE LOCATED ON
THE ODOR CONTROL AREA
EQUIPMENT RACK

PANEL "H-OC"									
BUS AMPS <u>225</u>									
MAIN BRKR. AMPS <u>200</u>									
VOLTS <u>480</u> KAIC <u>35</u>									
PHASE <u>3</u> WIRE <u>3</u>									
NOTES									
1. ALL BUSS SHALL BE COPPER.									
2. BREAKERS 3P/20A UNLESS MARKED OTHERWISE									
3. ADJ. CKTS. TO BAL. PNL.									
4. SURFACE MOUNT, NEMA 1 PANEL INSIDE A HINGED DOOR NEMA 4X 316 STAINLESS STEEL ENCLOSURE									
CKT. DESCRIPTION	WIRE	LOAD	BKR.			BKR.	LOAD	WIRE	CKT. DESCRIPTION
	12	3,730	20	1	2	20			
	12			3	4				
	12			5	6				
		20	20	7	8	20			
				9	10				
				11	12				
	12	1,492	20	13	14	20			
	12			15	16				
	12			17	18				
		20	20	19	20	20			
				21	22				
				23	24				
	4	11,190	50	25	26	20			SPARE
	4			27	28				
	4			29	30				
SPARE			20	43	44	50			SPARE
				45	46				
				47	48				
PANEL L-OC	8	3480	50	49	50	50			SPARE
SPACE	8	3480		51	52				
				53	54				SPACE
		12,660					12,300		

TOTAL VA = 24,960
25 KVA AT 480V = 31 AMPS
THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE
ALL RATED PROPERLY TO SERVE THE LOAD

NEW PANELBOARD "L-OC"
IS TO BE LOCATED ON
THE ODOR CONTROL AREA
EQUIPMENT RACK

MAIN BRKR. AMPS

80

TRANSFORMER

15KVA

VOLTS

120/240

PHASE

1

WIRE

2

SN

✓

PANEL

"L-OC"

45

80

NOTES

1. ALL BUSS SHALL BE COPPER.

2. BREAKERS 1P/20A UNLESS MARKED OTHERWISE.

3. ADJ. CKTS. TO BAL. PNL.

4. SURFACE MOUNT, NEMA 3R SS

5. INSTALL MINI POWER CENTER WITH PANEL COVER HINGE AT 72" AFF.

CKT.	DESCRIPTION	WIRE	LOAD	BKR.		BKR.	LOAD	WIRE	CKT.	DESCRIPTION
		12	100	20	1	2	20			
		12	360	20	3	4	20			
		12	60	20	5	6	20			
		12	100	20	7	8	20			
		12	360	20	9	10	20			
		12	60	20	11	12	20			
		12	60	20	13	14	20	60	12	
		12	60	20	15	16	20			
				20	17	18	20			
SPARE				20	19	20	20	80	12	
SPARE				20	21	22	20			SPARE
FUTURE 1	CL-120			20	23	24	20			SPARE
FUTURE 2	CL-120			20	25	26	20	180	12	RACK OUTLET
		1,830						1,650		
				NEUT		GND				

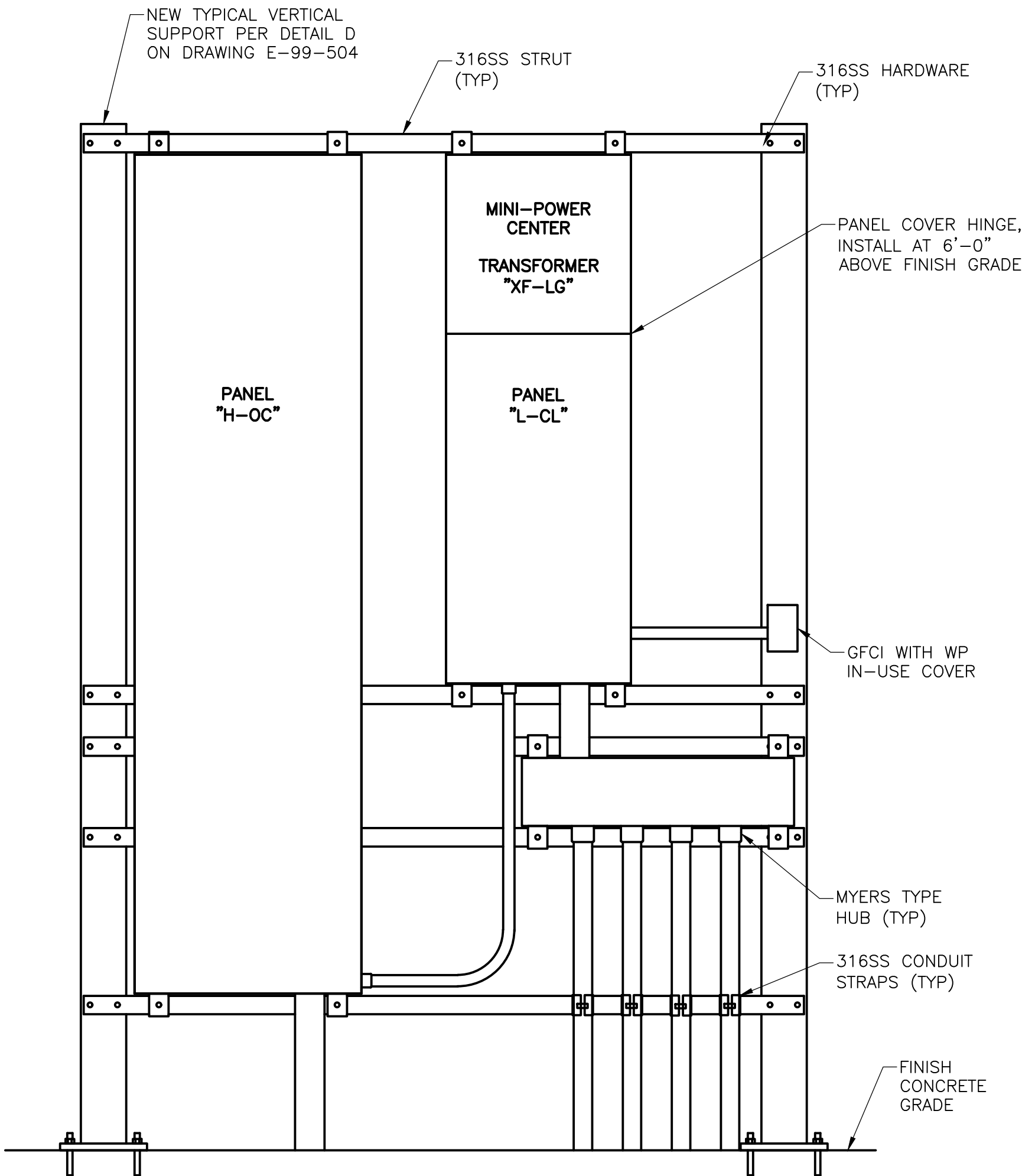
TOTAL VA = 3,480
3.5 KVA AT 240V = 14.5 AMPS
THE CONDUCTORS, PANEL, AND MAIN BREAKER ARE
ALL RATED PROPERLY TO SERVE THE LOAD

ODOR CONTROL AREA PANELBOARD

SCHEDULES
NTS

GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE ODOR CONTROL AREA ELECTRICAL RACK AND PANELBOARD SCHEDULES.
- B. CONDUITS REQUIRED MAY NOT BE ILLUSTRATED ON ALL DRAWINGS SHOWING AN AREA. REFER TO THE CONDUIT AND CONDUCTOR SCHEDULES FOR MORE INFORMATION.



ODOR CONTROL AREA EQUIPMENT RACK

ELEVATION
NTS

NO.	DATE	REVISIONS	APP.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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HOUSTON PUBLIC WORKS

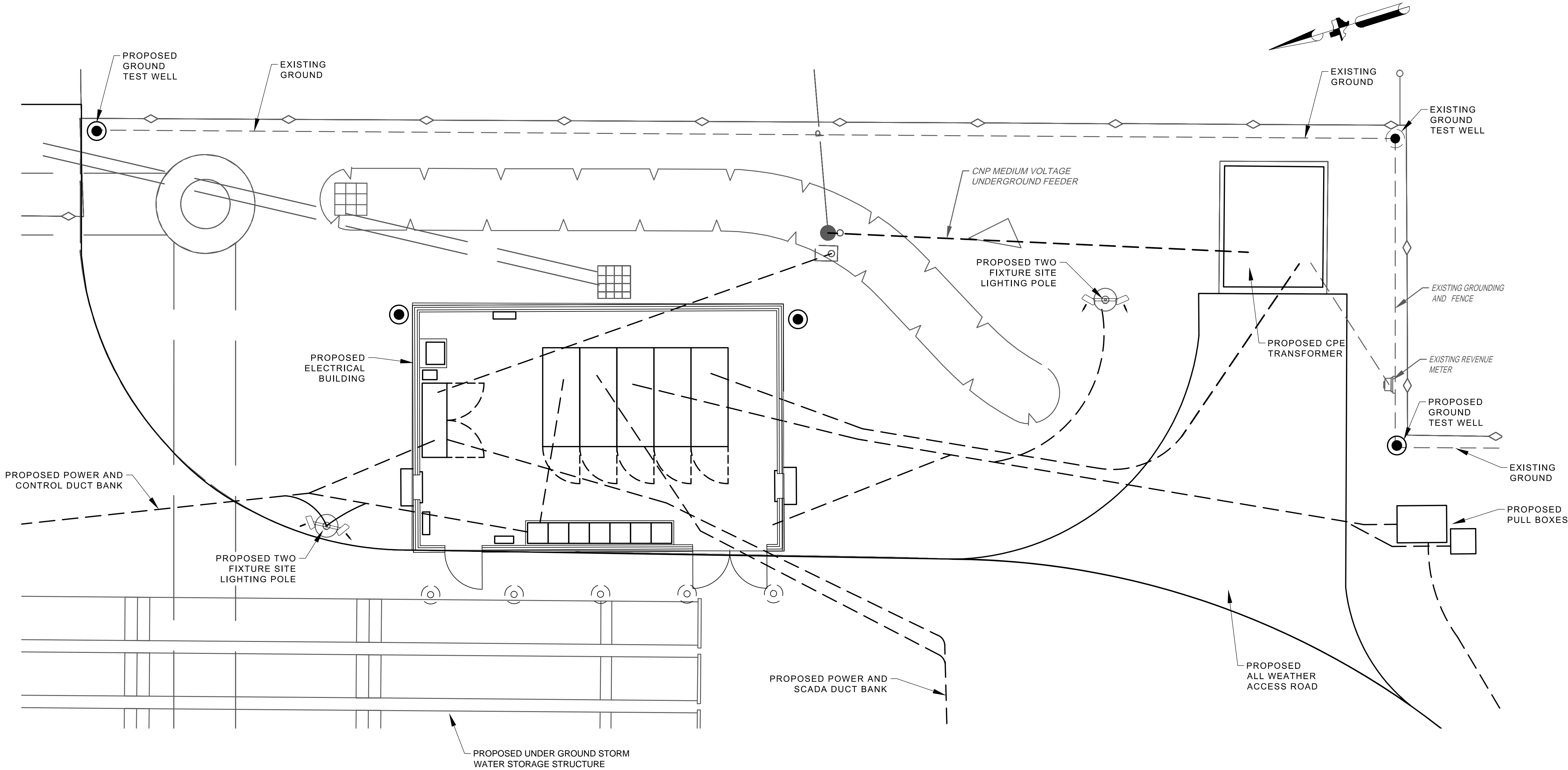
**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
ODOR CONTROL AREA
EQUIPMENT RACK & SCHEDULES -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 5-E-11	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.

GENERAL NOTES:

- A. THIS DRAWING ILLUSTRATES THE PROPOSED ELECTRICAL BUILDING AREA. SEE DIVISION 13 AND 16 SPECIFICATIONS FOR ALL PROPOSED WORK AND EQUIPMENT REQUIREMENTS.
- B. CONTRACTOR HAS TASKS, IN THIS PROJECT, IN NEAR PROXIMITY TO CPE OVERHEAD POWER LINES. CONTRACTOR SHALL FOLLOW NEC AND CPE STANDARDS FOR SAFE WORKING DISTANCE, TEMPORARY SIGNAGE AND PROCEDURES.
- C. TEMPORARY PROVISIONS ARE TO REMAIN IN SERVICE WHILE PROPOSED WORK, INCLUDING POWER, CONTROLS, SCADA AND COMMUNICATIONS, IS TESTED AND ACCEPTED.



KGI  TBPE Registration No. F-665
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Houston, Texas 77094
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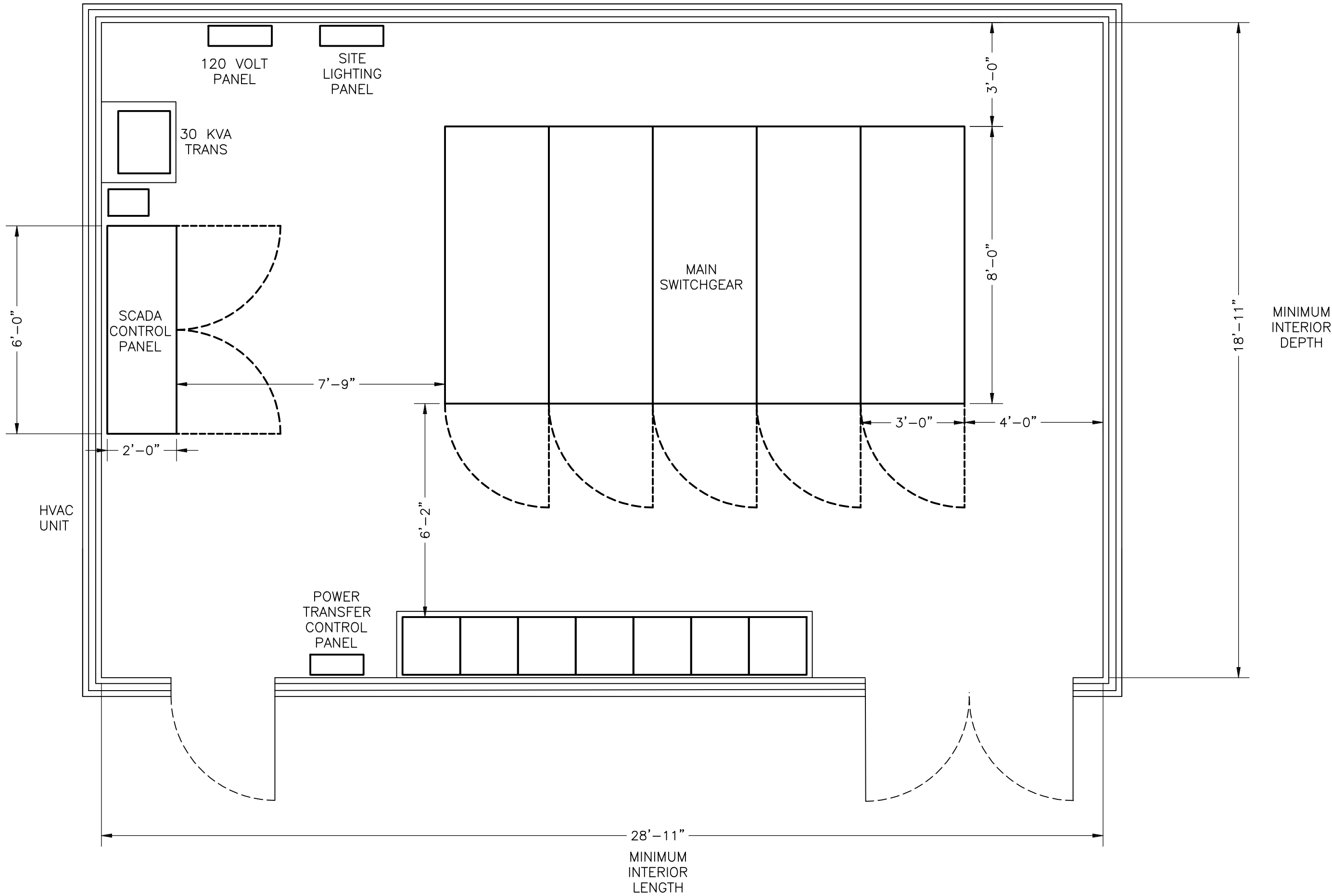
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
ELECTRICAL BUILDING
AREA PLAN -
PROPOSED**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 6-E-01	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.

EQUIPMENT	WEIGHT & HEAT LOAD		
480 MAIN SWITCHGEAR – 6 SECTIONS	= 680LB EACH	= 1.7KW EACH	
480 MCC–1	= 500LB	= 1.4KW	
SCADA CONTROL PANEL	= 800LB	= 420W	
SCADA CP UPS	= 130LB	= 250W	
480V PANEL	= 100LB EACH	= 200W	
240/120V PANEL	= 100LB	= 100W	
LIGHTING PKG & CONTROL PANEL	= 230LB	= 280W	
.	.	.	
.	.	.	



GENERAL NOTES:
A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE PROPOSED ELECTRICAL BUILDING, EQUIPMENT LOCATION AND LAYOUT MINIMUM CLEARANCE DIMENSIONS REQUIRED.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

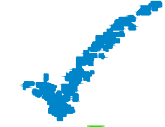
CenterPoint Energy natural gas utilities shown.
(Gas services lines are not shown). This signature not to be used for conflict verification.
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY.
(This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

KGI 
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

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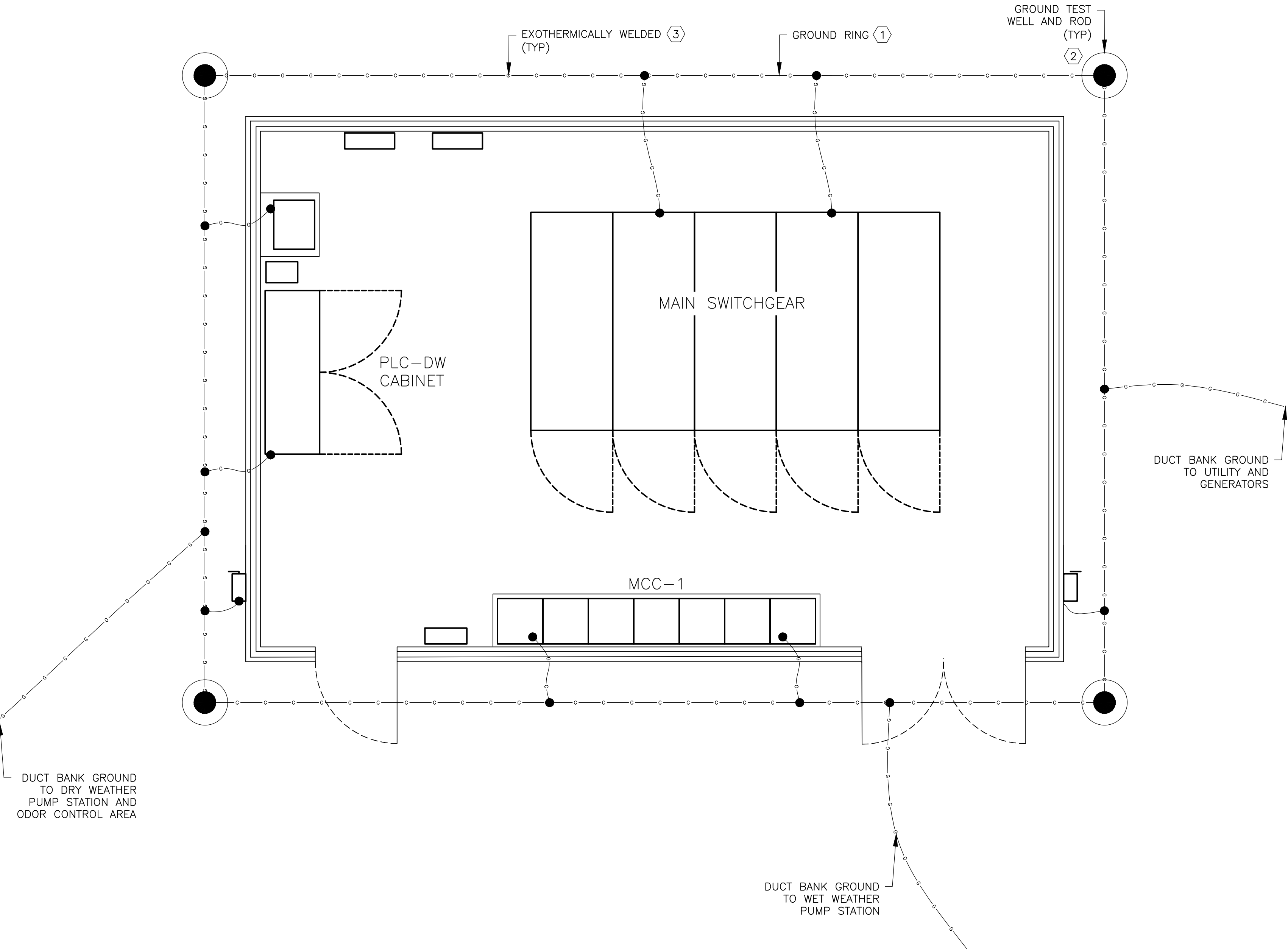
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
ELECTRICAL BUILDING
EQUIPMENT PLAN -
PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 6-E-02	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.



GENERAL NOTES:

- A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE NEW ELECTRICAL BUILDING GROUNDING, AND UNDER SLAB PROVISIONS.
- B. ALL ELECTRICAL EQUIPMENT, STEEL RACKS, FOUNDATION REBAR AND FENCING ON THE SITE SHALL BE CONNECTED THROUGH THE DUCT BANK GROUND SYSTEM.

KEYED NOTES:

- (1) 4/0 COPPER GROUND RING AT 24" MINIMUM BELOW GRADE.
- (2) 3/4"x20' GROUND ROD WITH EXOTHERMIC CONNECTIONS TO GROUND RING.
- (3) EXOTHERMICALLY WELDED CONNECTION, SEE SPECIFICATIONS FOR REQUIREMENTS.
- (4) PROVIDE ONE 1" PVC CONDUIT ON THE EXTERIOR WALL OF THE PROPOSED BUILDING, FROM 12" BELOW TOP OF THE WALL TO GROUND RING FOR LIGHTNING PROTECTION DOWN LEAD.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown.
(Gas services lines are not shown. This signature not to be used for conflict verification.)
Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY.
(This Signature verifies existing underground facilities - not to be used for conflict verification.)
Signature Valid for six months.

Date:

Approved for AT&T Texas / SWBT underground conduit facilities only.
Signature valid for one year.

KGI

Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas - 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1

LIFT STATION REHABILITATION

ELECTRICAL

ELECTRICAL BUILDING

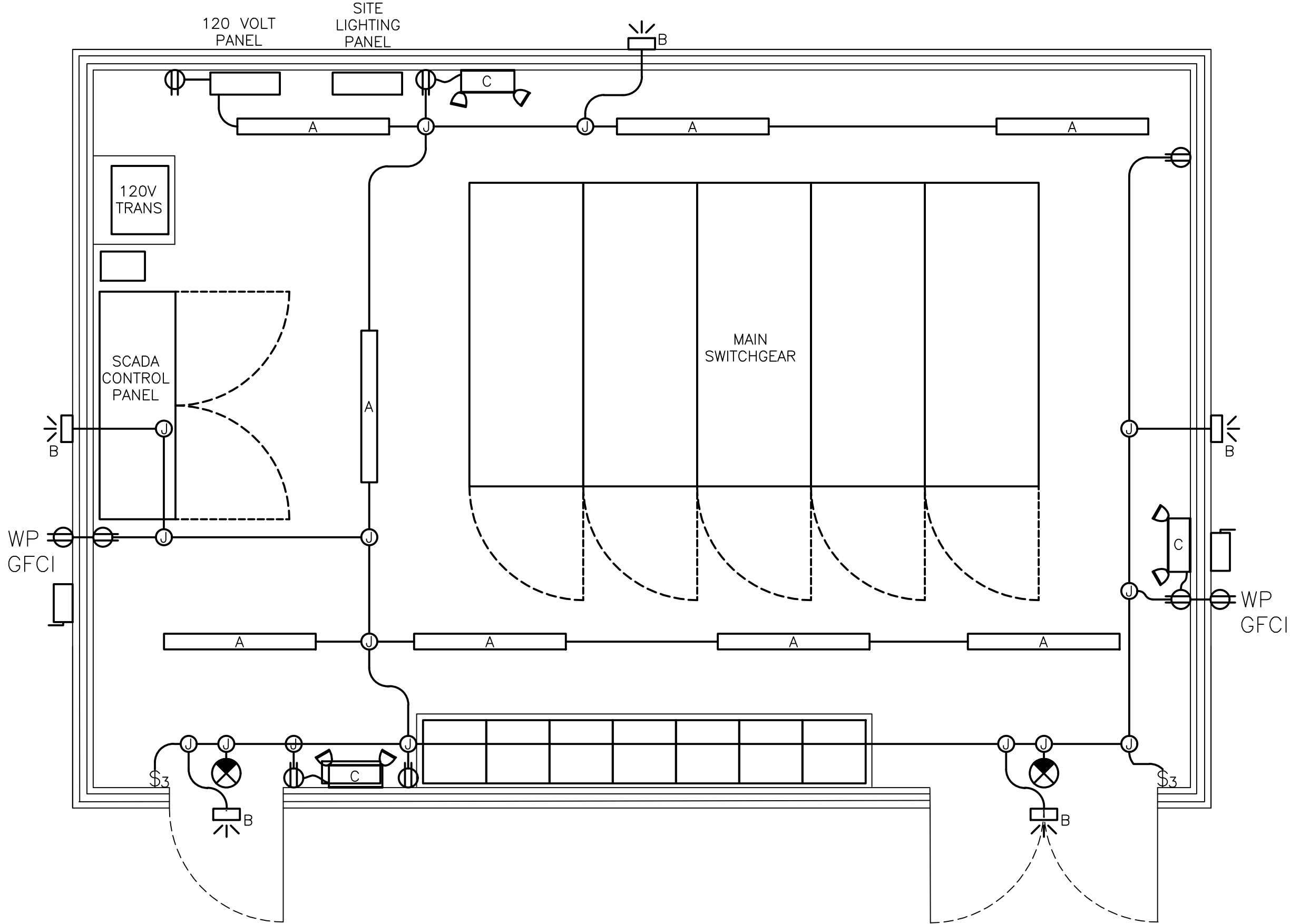
GROUNDING PLAN -

PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 6-E-03	
SHEET NO. OF XX	

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NO.	DATE	REVISIONS	APP.



GENERAL NOTES:

- A. ROUTE CONDUITS UNDERGROUND IF POSSIBLE. IF CONDUITS MUST BE ROUTED OVERHEAD, ROUTE CONDUITS ON STRUT, ATTACHED TO STRUCTURE OR ON TRAPEZE TYPE HANGERS.
- B. ALL ANCHORS, STRUT, STRUT FITTINGS, STRAPS AND HARDWARE SHALL BE 316 STAINLESS STEEL.
- C. PROVIDE NEMA 4X, 316SS ENCLOSED, FUSED DISCONNECTS FOR THE A/C UNITS. COORDINATE EXACT FUSE SIZE WITH PROPOSED EQUIPMENT. A/C UNIT FEEDERS MAY BE ROUTED UNDER THE SLAB.
- D. PROVIDE CONDUIT AND PULL STRING FOR HVAC THERMOSTATS, COORDINATE LOCATIONS WITH HVAC.
- E. SEE LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE CATALOG NUMBERS, FIXTURE DESCRIPTIONS AND INSTALLATION INSTRUCTIONS. SEE 0-E-XX FOR LIGHTING CONTROL REQUIREMENTS.
- F. ROUTE CONDUIT SUCH THAT THERE ARE NO CONNECTIONS IN CONDUIT FITTINGS. IF CONNECTIONS ARE REQUIRED A BOX SIZED ACCORDINGLY SHALL BE PROVIDED.
- G. PROVIDE RED DOT "CODE KEEPER TYPE (OR APPROVED EQUAL) METALLIC "IN-USE" GFCI COVER, INSTALLED AT 2'-0" FINISHED FLOOR.
- H. INSTALL RECEPTACLES 2'-0" ABOVE FINISHED FLOOR OR FINISHED GRADE. INSTALL LIGHT SWITCHES 3'-6" ABOVE FINISHED FLOOR.

KGI

Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

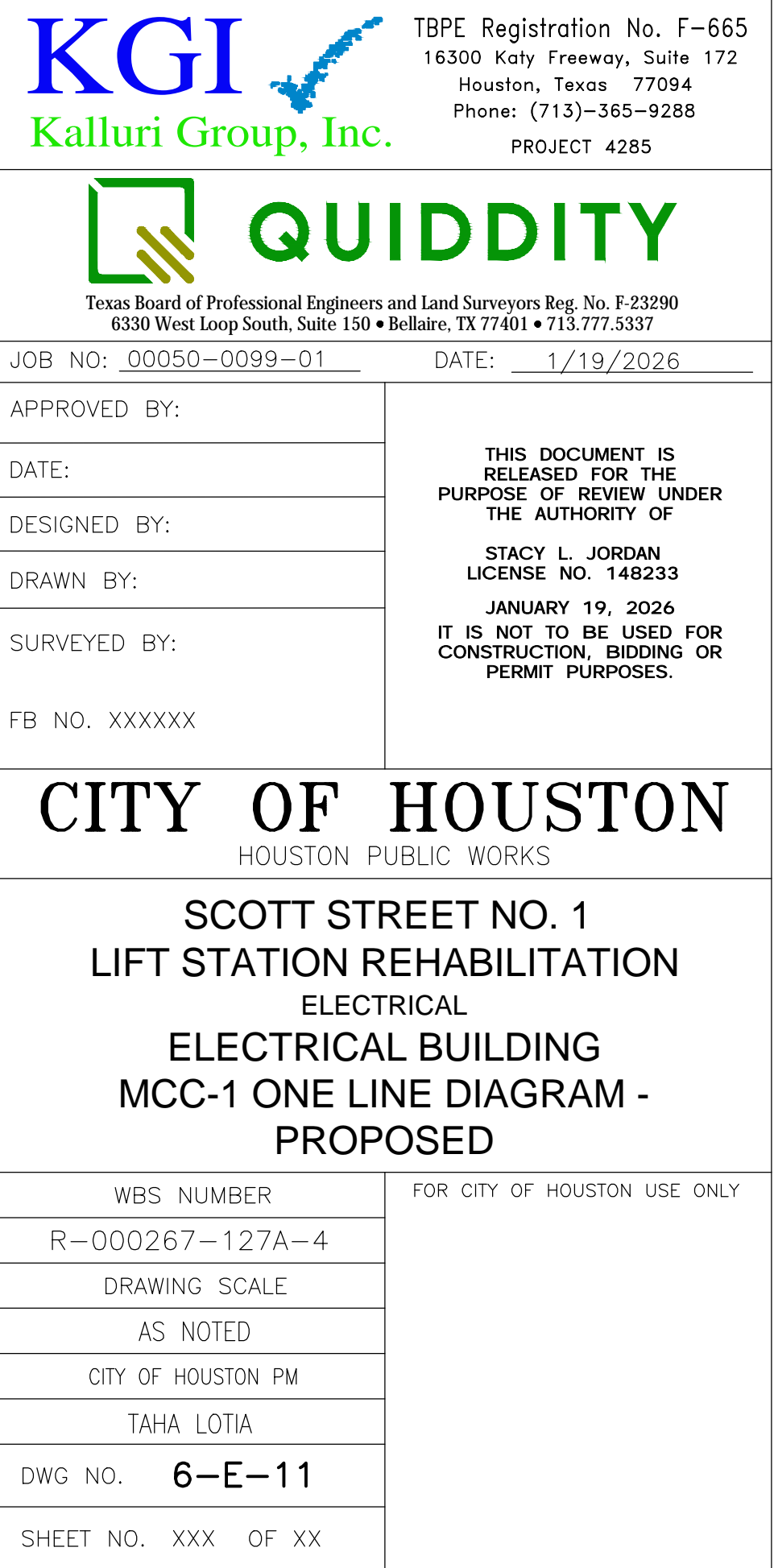
APPROVED BY:	<div>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF STACY L. JORDAN LICENSE NO. 148233 JANUARY 19, 2026 IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</div>
DATE:	
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DRAWN BY:	
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FB NO. XXXXXX	

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
ELECTRICAL
ELECTRICAL BUILDING
LIGHTING AND POWER PLAN
- PROPOSED

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 6-E-04	
SHEET NO. OF XX	

A. THIS DRAWING IS PROVIDED TO ILLUSTRATE THE DRY WEATHER PUMP STATION MCC-1.



[illegible]

HVAC DEMOLITION NOTES:

GENERAL:

1. THIS IS A WASTEWATER LIFT STATION WITH CORROSIVE AND CLASSIFIED AREAS. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS PER LATEST EDITION OF NFPA 820 – STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES.
2. THE LIFT STATION IS BEING REHABILITATED. SOME OF THE HVAC SERVING THE DRY WELLS, STAIRWELL AND ELECTRICAL ROOM IS BEING REPLACED OR DEMOLISHED.
3. EXISTING STRUCTURES, EQUIPMENT, ELEVATIONS, AND DETAILS SHOWN ARE NOT GUARANTEED TO BE ACCURATE AND ALL INCLUSIVE. EXISTING INFORMATION SHOWN IS APPROXIMATE, BASED ON AVAILABLE RECORD DRAWINGS.
4. BACKGROUNDS ARE DESIGN DRAWINGS FROM A PREVIOUS PROJECT. ACTUAL FIELD CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THIS DRAWING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPACTED BY OR IMPACTING THIS WORK PRIOR TO INITIATING THE WORK. CONTRACTOR SHALL REFER TO CONSTRUCTION DOCUMENTS FOR RESPONSIBILITIES RELATIVE TO THE VERIFICATION OF EXISTING FACILITIES AND COORDINATION WITH PLANT OPERATION.
5. DEMOLITION LIMITS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED BASED ON FIELD CONDITIONS.
6. EXISTING EQUIPMENT SHOWN MAY BE NOT AS SHOWN, OR NOT FUNCTIONAL AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE START OF CONSTRUCTION AND IMMEDIATELY NOTIFY THE OWNER OF ANY VARIATIONS THAT AFFECT THE PROPOSED WORK.
7. REMOVE ALL DEMOLITION MATERIALS AND DISPOSE OF THEM IN AN APPROVED MANNER IN ACCORDANCE WITH CONTRACT DOCUMENTS.

PHASING:

8. CONTRACTOR SHALL PHASE DEMOLITION WITH THE NEW EQUIPMENT INSTALLATION AND OPERATION IN ORDER TO MAINTAIN EXISTING VENTILATION RATES AT 6 AIR CHANGES PER HOUR (ACH) MINIMUM AT ALL TIMES. CONTRACTOR SHALL PROVIDE TEMPORARY VENTILATION TO MAINTAIN 6 AIR CHANGES PER HOUR MINIMUM DURING CONSTRUCTION.
9. COORDINATE WITH ELECTRICAL ON PHASING OF POWER REQUIREMENTS.

HVAC NOTES:

GENERAL:

1. CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND PROVIDE EQUIPMENT, DUCTWORK, PIPING, AND ASSOCIATED INSULATION, COATINGS, SUPPORTS, CONTROLS AND DEVICES, REGARDLESS OF WHETHER IT'S SHOWN ON ONE DRAWING AND NOT ANOTHER. FOR EXAMPLE, A DAMPER SHOWN ON A PLAN BUT NOT THE SCHEMATIC, OR VICE VERSA SHALL BE PROVIDED.

MATERIALS:

2. EQUIPMENT THAT IS SCHEDULED TO BE ALUMINUM CONSTRUCTION AND HAS ANY COMPONENT THAT IS NOT OF THOSE MATERIALS, SHALL HAVE COATINGS SUITABLE FOR EXPOSURE TO HYDROGEN SULFIDE (H2S).
3. WHERE COATINGS ARE REQUIRED, ALL COMPONENTS INSIDE AND OUTSIDE OF THE EQUIPMENT EXPOSED TO THE ENVIRONMENT ARE TO BE COATED.
4. ALL SUPPORTS AND FASTENERS SHALL BE GALVANIZED STEEL, UNLESS NOTED OTHERWISE.
5. ALL EXHAUST AND SUPPLY AIR DUCTWORK AND ASSOCIATED FITTINGS, AND DAMPERS SHALL BE GALVANIZED STEEL CONSTRUCTION WITH GALVANIZED STEEL HARDWARE. DUCTWORK SHALL BE DESIGNED FOR A MINIMUM 2-IN W.G. INTERNAL PRESSURE.

EQUIPMENT:

6. EQUIPMENT CLEARANCES SHALL BE PROVIDED PER THE NATIONAL ELECTRIC CODE (NEC) AND ACCESS REQUIREMENTS PER EQUIPMENT MANUFACTURER FOR MAINTENANCE AND REMOVAL OF PARTS.
7. FIELD MODIFICATION (E.G. CUTTING, REPAIR OF DAMAGED EQUIPMENT, ETC) WILL NOT BE ACCEPTED.
8. ELECTRIC UNIT HEATERS SHALL BE MOUNTED WITH BOTTOM OF EQUIPMENT AT 8'-0" AFF
9. ALL EQUIPMENT SHALL BE SECURELY ANCHORED TO STRUCTURE AND/OR ITS CONCRETE PAD.

DAMPERS:

10. ALL MOTORIZED DAMPERS ARE LOW LEAKAGE CLASS 1A @ 1 IN.W.G., UNLESS NOTED OTHERWISE.
11. MANUAL BALANCING DAMPERS SHALL BE PROVIDED FOR EACH AIR INLET OR OUTLET TO ACHIEVE THE AIRFLOW INDICATED.

DUCTWORK INLET & OULETS (GRILLES, REGISTERS, DIFFUSERS, SCREENS):

12. ALL INLETS AND OUTLETS SHALL HAVE A TERMINATING DEVICE (E.G. GRILLE OR SCREEN). ALL BOTTOM INLETS AT FLOOR LEVEL (E.G. 12" AFF) SHALL BE TERMINATED WITH 1/2"x1/2" 316 STAINLESS STEEL WIRE MESH IN A REMOVABLE FLANGED FRAME.

PIPING:

13. PIPE SUPPORTS SHALL BE GALVANIZED STEEL CONSTRUCTION WITH GALVANIZED STEEL HARDWARE AND PROVIDED EVERY 5-FT MAXIMUM, UNLESS OTHERWISE NOTED.
14. WHERE INSULATION IS TO BE PROVIDED ON PIPING, THE PIPE CLAMPS SHALL BE ON THE OUTSIDE OF THE INSULATION. PROVIDE RIGID INSULATION INSERTS AT EACH CLAMP LOCATION.
15. DRAIN PIPING SHALL BE SOLVENT WELDED SCH. 80 CPVC AND SLOPED AT 1/8" PER FOOT MINIMUM.

CONTROLS:

16. CONDUIT/WIRING BETWEEN HVAC EQUIPMENT AND ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL.
17. CONDUIT/WIRING BETWEEN HVAC EQUIPMENT AND HVAC DEVICES SHALL BE FURNISHED AND INSTALLED BY HVAC PER DIVISION 16 SPECIFICATIONS.
18. CONTRACTOR SHALL VERIFY ALL EQUIPMENT AND DEVICE TAGS WITH DIVISION 17.

COORDINATION:

19. REFER TO MECHANICAL SHEETS FOR COORDINATION OF PROCESS EQUIPMENT, PIPING, AND ACCESSORIES. VERIFY SPACE REQUIREMENTS FOR HVAC EQUIPMENT, DUCTWORK, SUPPORTS, DEVICES, AND ALL CLEARANCES.
20. REFER TO ARCHITECTURAL AND STRUCTURAL SHEETS FOR COORDINATION OF ROOF, FLOOR, AND WALL OPENINGS.
21. COORDINATE WITH ACCESS HATCHES, BEAMS, AND CROSS BRACING.
22. COORDINATE LOCATION OF PENETRATIONS AND DUCTWORK ROUTING WITH EXISTING ELECTRICAL CONDUIT, WIRING, AND LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION AND NEW WORK.
23. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION ON CONCRETE CURBS AND PADS.
24. HVAC CONTRACTOR SHALL COORDINATE PURCHASED EQUIPMENT WITH ROOF OPENINGS AND CONCRETE ROOF CURB/PAD SIZES.
25. REFER TO STRUCTURAL NOTES FOR PENETRATIONS AND ANCHORS IN EXISTING CONCRETE AND COORDINATION WITH REBAR.
 - PACKAGED MAKE-UP AIR UNITS (MAU)
45. ANY DEVIATION FROM SCHEDULED VOLTS/PHASE, HORSEPOWER, OR MAX OVER CURRENT PROTECTION (MOCp) IS TO BE COORDINATED WITH ELECTRICAL AND NOTED ON THE SUBMITTAL FOR APPROVAL.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction,
bidding or permit purposes.

Engineer: RICARDO AZCARATE

P.E. Serial No.: 81863

Date: JANUARY 2026



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CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY:
JOB NO: 00050-0099-01	DWG BY: M ANDERSON

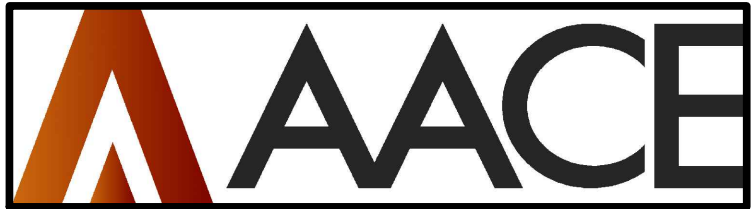
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

HVAC GENERAL NOTES

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

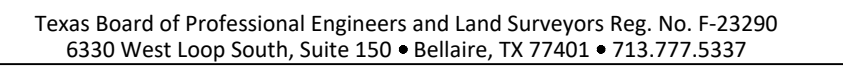
DRAWING SCALE N/A	HORIZ: xxx	VERT: xxx
CATEGORY NO. 2-H-2	SHEET NO.	OF xxx
FOR CITY OF HOUSTON USE ONLY		



1. DEMOLISH ALL HANGERS, SUPPORTS, ASSOCIATED WITH THE DEMOLISHED DUCTWORK. REMOVE CONCRETE CURBS AND PATCH WALL AND FLOOR OPENINGS, SEE STRUCTURAL.



<p style="text-align: center;">INTERIM REVIEW</p> <p style="text-align: center;">Not intended for construction, bidding or permit purposes.</p> <p>Engineer: <u>RICARDO AZCARATE</u></p> <p>P.E. Serial No.: <u>81863</u></p> <p>Date: <u>JANUARY 2026</u></p>	
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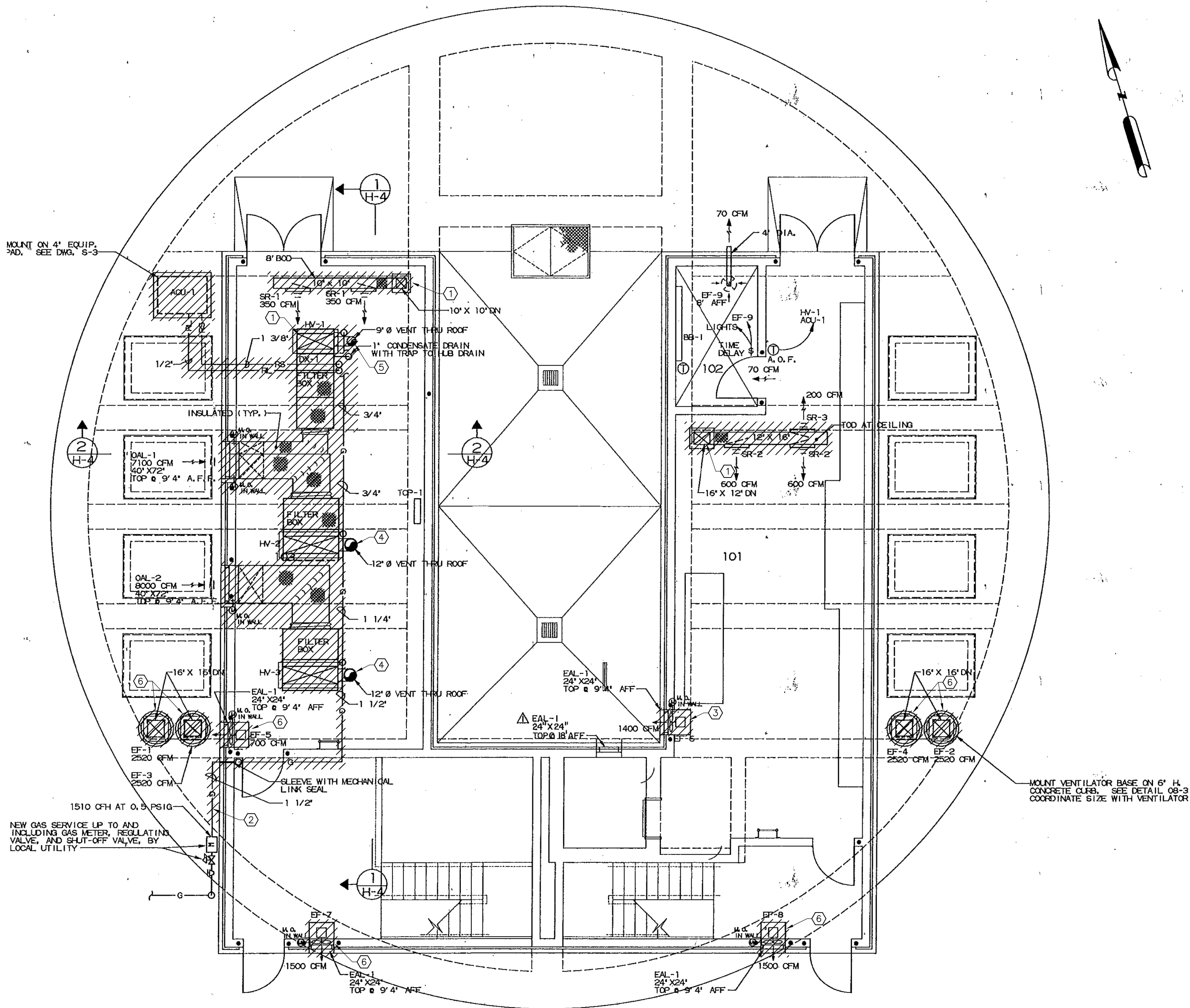
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

[illegible]

NOTES:
1. REFER TO 2-H-2 FOR GENERAL NOTES

GENERAL NOTES:

1. DEMOLISH ALL PIPING, HANGERS, SUPPORTS, CONDUIT AND WIRE, ASSOCIATED WITH THE DEMOLISHED EQUIPMENT AND DUCTWORK. REMOVE CONCRETE CURBS AND PATCH WALL AND FLOOR OPENINGS, SEE STRUCTURAL.



KEYED NOTES:

1. REMOVE CONCRETE CURB AROUND DUCT, PATCH EXIST FLOOR OPENING, SEE STRUCT.
2. DEMO EXIST GAS PIPING AND ALL ASSOCIATED HANGERS AND SUPPORTS DOWNSTREAM OF EXIST PRESSURE REGULATOR. PATCH EXIST WALL OPENING, SEE ARCHITECTURAL.
3. DEMO EXIST EXHAUST FAN AND ASSOCIATED SUPPORTS, DAMPERS, AND CONTROLS. PATCH EXIST WALL OPENING, SEE ARCHITECTURAL.
4. REUSE PATH OF EXISTING FLUES THRU ROOF FOR NEW FLUES.
5. DEMOLISH EXISTING FLUE. THIS FLUE PATH WILL NOT BE REUSED. PATCH CEILING AND CAP ROOF PENETRATION.
6. THESE FANS ARE BEING REPLACED.



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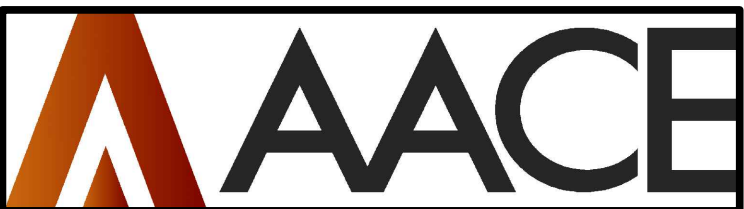
DATE: JANUARY 2026 DGN BY:
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SCOTT STREET No. 1
LIFT STATION REHABILITATION
UPPER LEVEL – HVAC
DEMOLITION PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

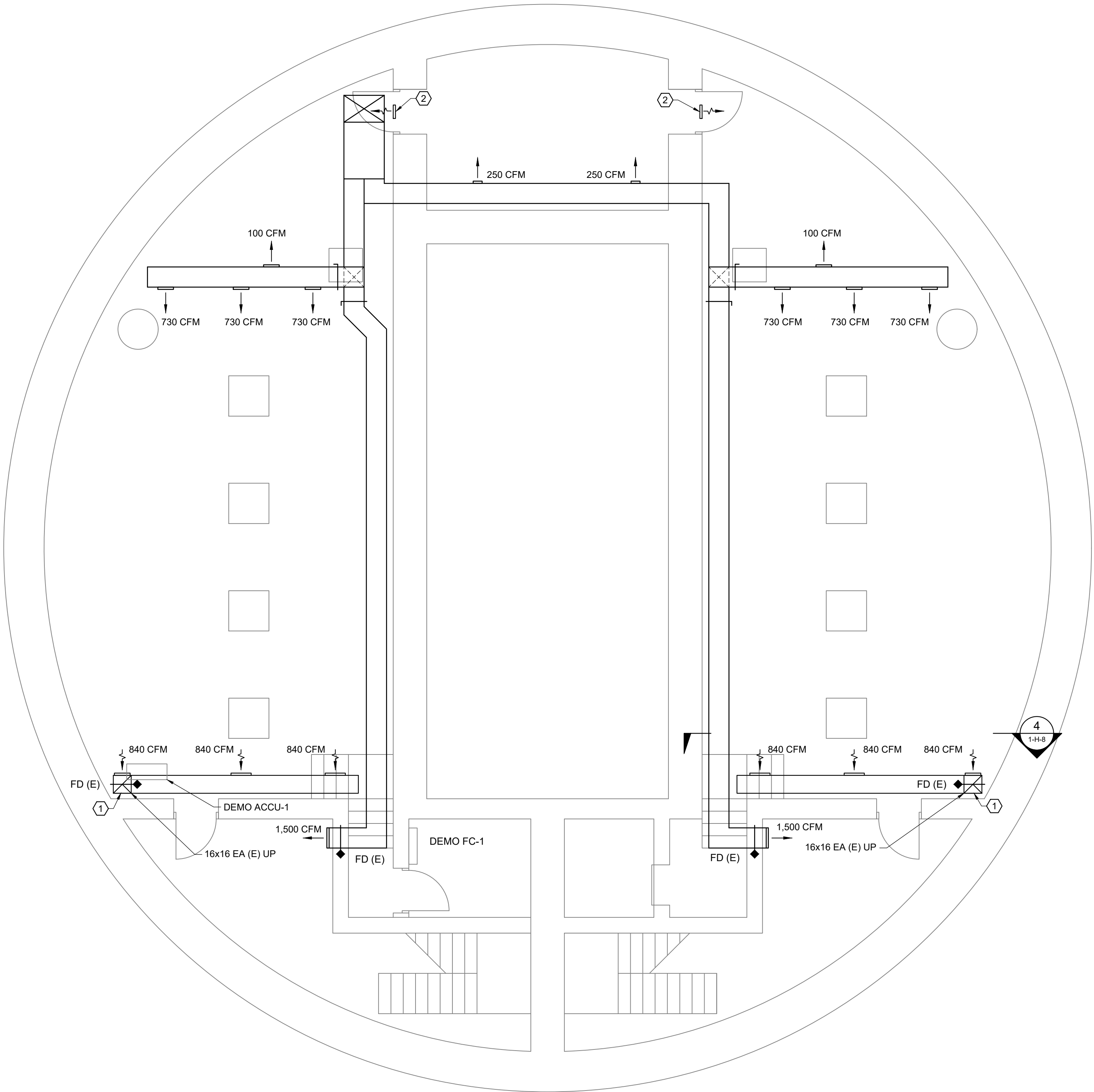
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CATEGORY NO. 2-H-4 SHEET NO. OF XXX
FOR CITY OF HOUSTON USE ONLY



TBPE REG. NO. F-10804

GENERAL NOTES:

1. REFER TO 2-H-2 FOR GENERAL NOTES..



KEYED NOTES:

- ① 16X16 DN TO 12" AFF, REPLACE ELL WITH TEE, PATCH EXIST HOLE.
② CUT DOOR AND INSTALL 12X12 TRANSFER AIR GRILLE FOR 250 CFM.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

Not intended for construction,
bidding or permit purposes.

Engineer: RICARDO AZCARATE

P.E. Serial No.: 81863

Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY:
JOB NO: 00050-0099-01	DWG BY: M ANDERSON

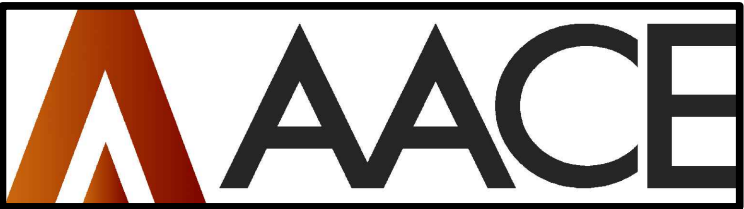
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

LOWER LEVEL – HVAC PLAN

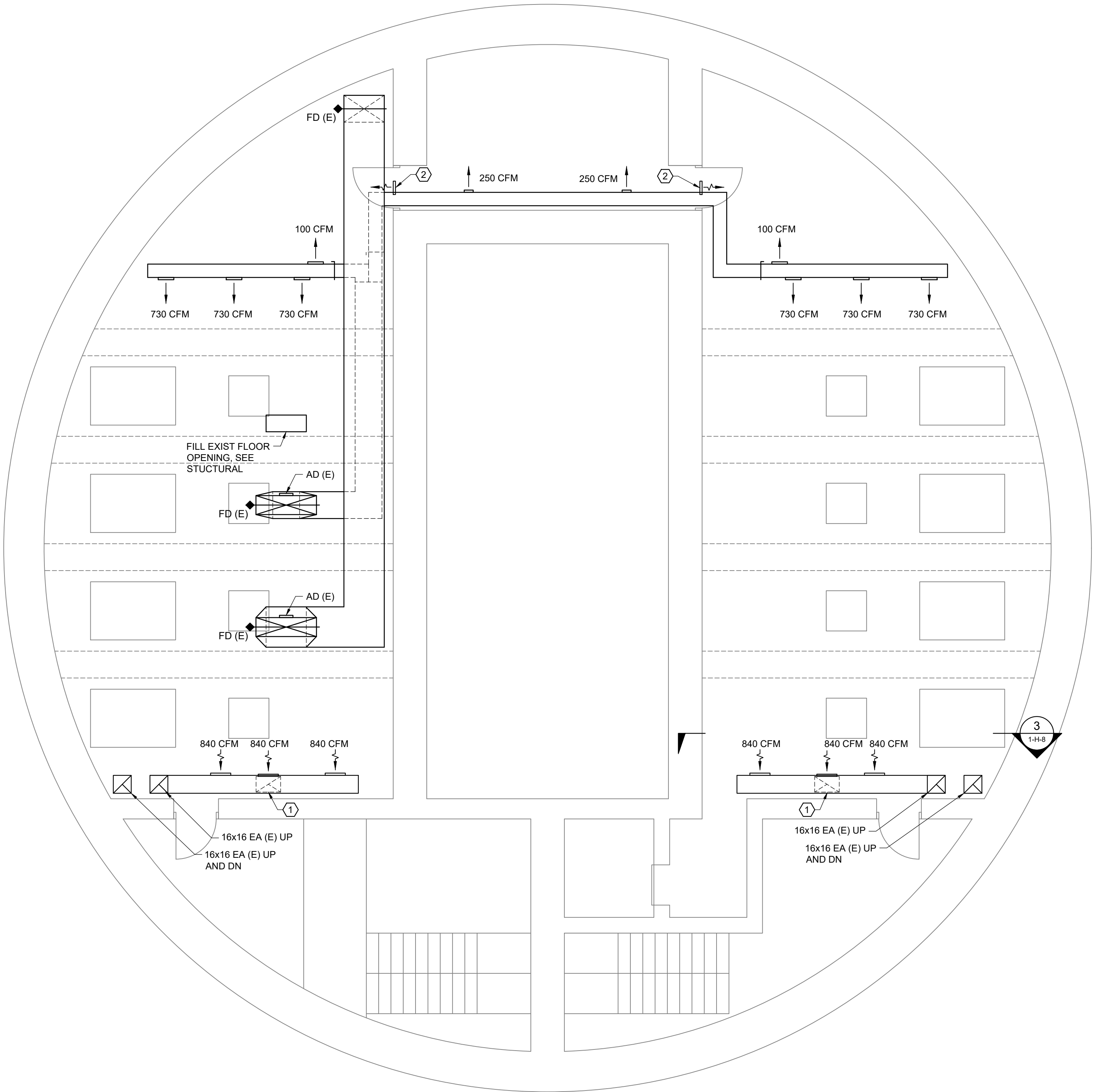
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: xxx	VERT: xxx
CATEGORY NO. 2-H-5	SHEET NO.	OF xxx
FOR CITY OF HOUSTON USE ONLY		



GENERAL NOTES:

1. REFER TO 2-H-2 FOR GENERAL NOTES..



KEYED NOTES:

- 1 22X14 DN TO 12" AFF, TAP BOTTOM OF EXIST DUCT, RELOCATE EXIST REGISTER, PATCH EXIST HOLE.
- 2 CUT DOOR AND INSTALL 12x12 TRANSFER AIR GRILLE FOR 250 CFM.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW
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Engineer: RICARDO AZCARATE
P.E. Serial No.: 81863
Date: JANUARY 2026



CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026 DGN BY:
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SCOTT STREET No. 1
LIFT STATION REHABILITATION
INTERMEDIATE LEVEL –
HVAC PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A HORIZ: VERT:
CATEGORY NO. 2-H-6 SHEET NO. OF XXX
FOR CITY OF HOUSTON USE ONLY



GENERAL NOTES:

1. REFER TO 2-H-2 FOR GENERAL NOTES..

KEYED NOTES:

- ① CORE DRILL WALL AND INSTALL 6" SCH-40 CPVC COMBUSTION AIR INTAKE WITH APPROVED WALL CAP.
- ② NEW GAS PIPING FROM EXIST PRESSURE REGULATOR TO NEW MAKE-UP AIR UNITS. ROUTE AROUND STAIRWELL. CORE DRILL EXTERIOR WALL AND SEAL WATER TIGHT.
- ③ NEW 5" DOUBLE WALL FLUE UP THRU EXIST FLUE PATH TO ABOVE ROOF WITH APPROVED RAIN CAP. MODIFY EXIST ROOF THIMBLE COUNTERFLASHING AROUND NEW SMALLER FLUE.
- ④ PROVIDE NEW, ALL WELDED, ALUMINUM, CURB CAP ADAPTOR FOR NEW EXHAUST FANS TALL ENOUGH TO HOUSE NEW OBD ISOLATION DAMPER WITH ACTUATOR MOUNTED ACCESSIBLE OUTSIDE OF CURB ADAPTOR.
- ⑤ REQUIRED NEC AND MAINTENANCE CLEARANCE, TYP.
- ⑥ NEW 40x30 ALUMINUM, LOW LEAKAGE, OBD MOTORIZED ISOLATION DAMPER.
- ⑦ NEW CONDENSING UNITS SECURED TO NEW 8" TALL CONCRETE PADS. CONSTRUCT ALL ALUMINUM SECURITY CAGE AROUND EQUIPMENT WITH VANDAL RESISTANT COMBINATION LOCKS FOR MAINTENANCE REMOVAL..
- ⑧ CORE DRILL THRU WALL. ROUTE CONDENSATE DRAIN EXPOSED DOWN WALL, REWORK LAV TAILPIECE AND CONNECT CONDENSATE PIPING. SLOPE CONDENSATE 1/8" PER FOOT.
- ⑨ TEMPERATURE INDICATING TRANSMITTER, HARD WIRED DIRECT TO SCADA FOR LOW AND HIGH TEMPERATURE ALARMS.

NO.	DATE	REVISIONS	APP.

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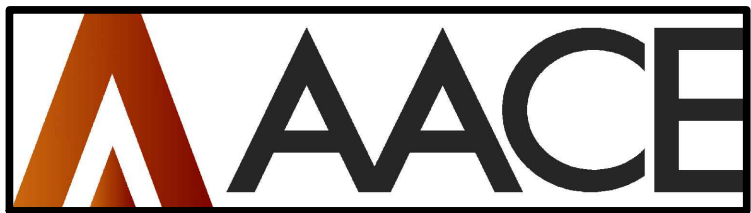
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

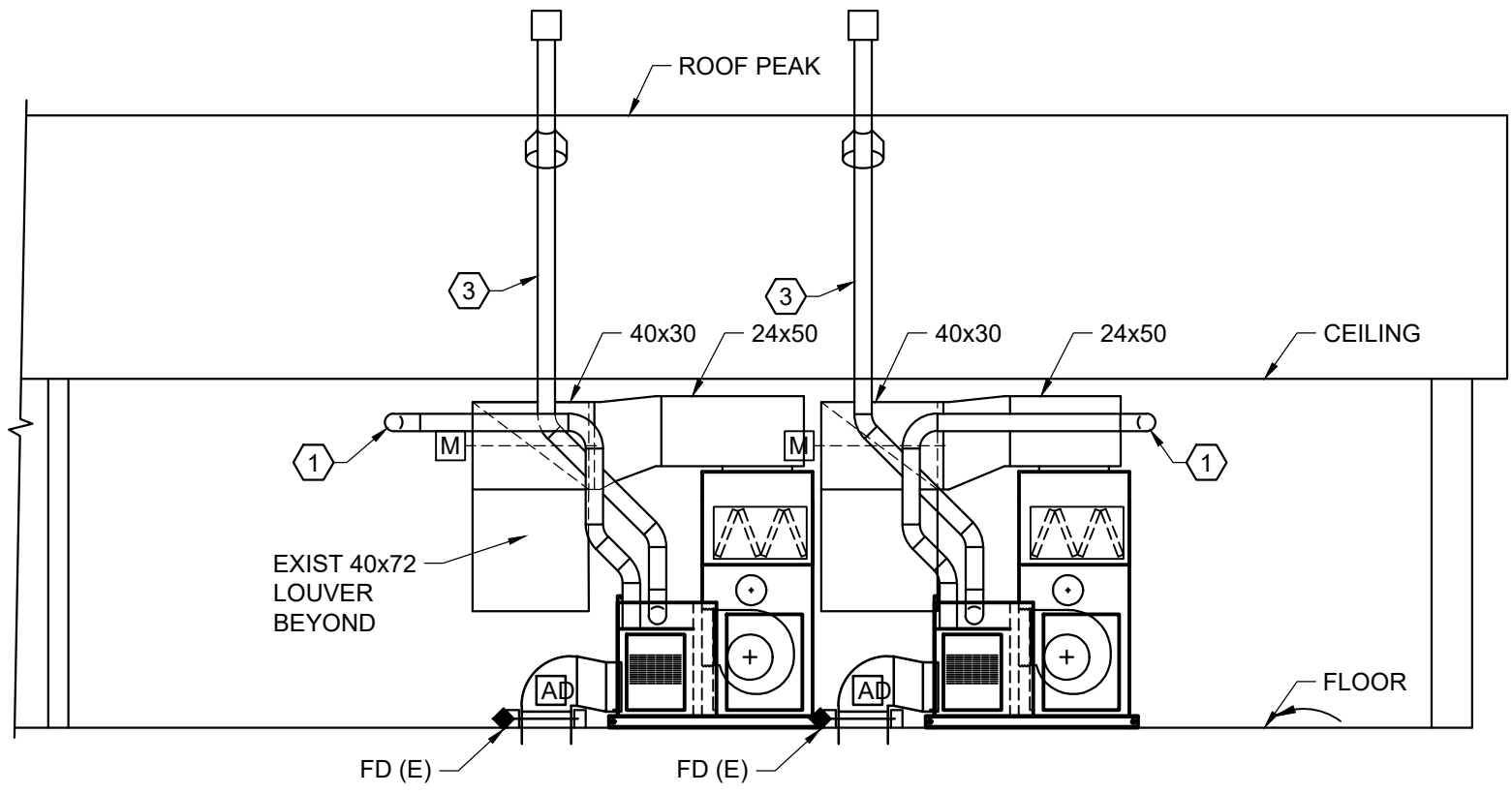
UPPER LEVEL – HVAC PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

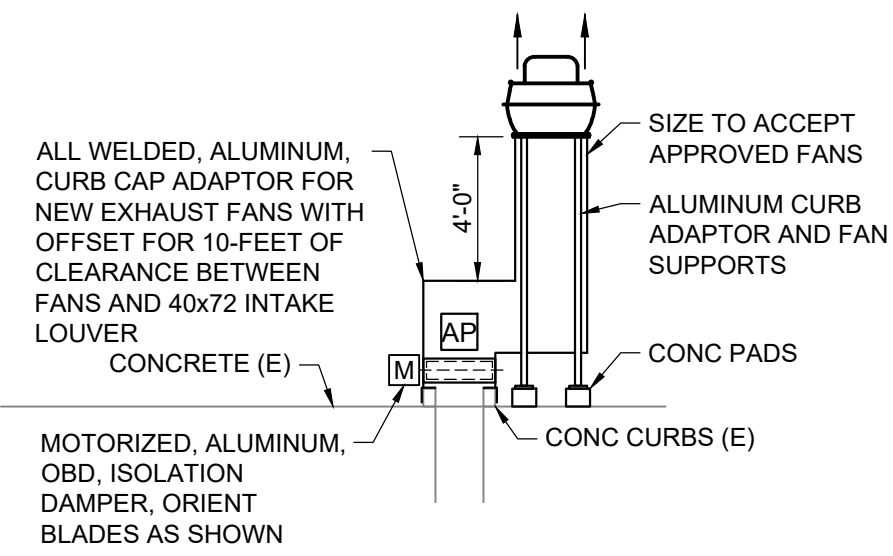
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CATEGORY NO. **2-H-7** SHEET NO. OF **xxx**
FOR CITY OF HOUSTON USE ONLY



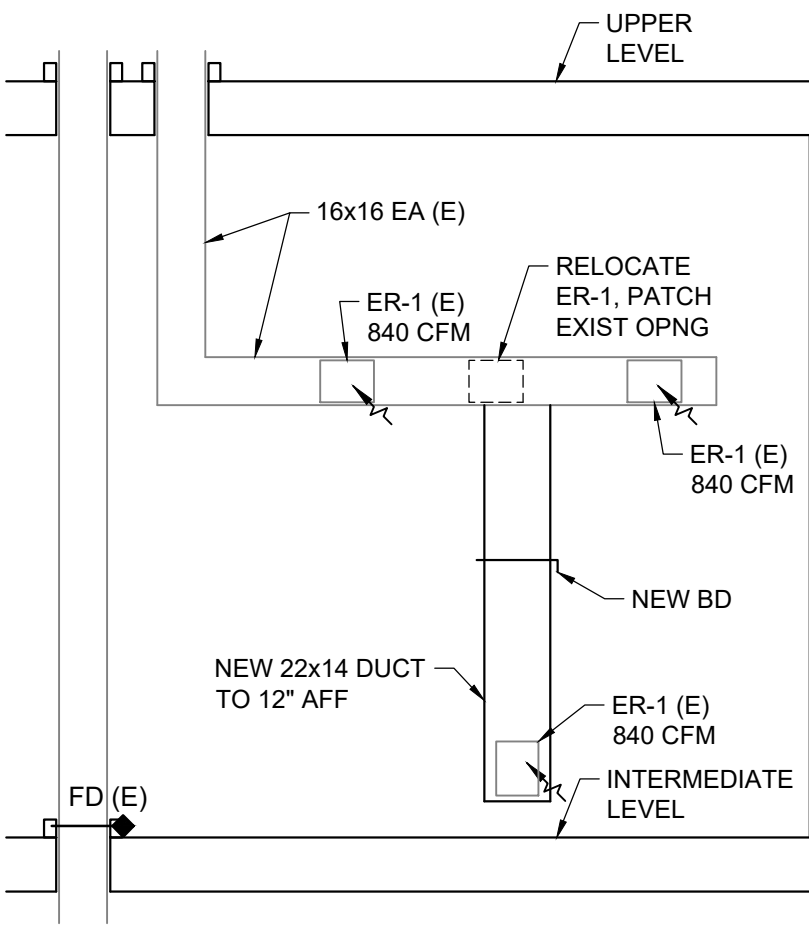
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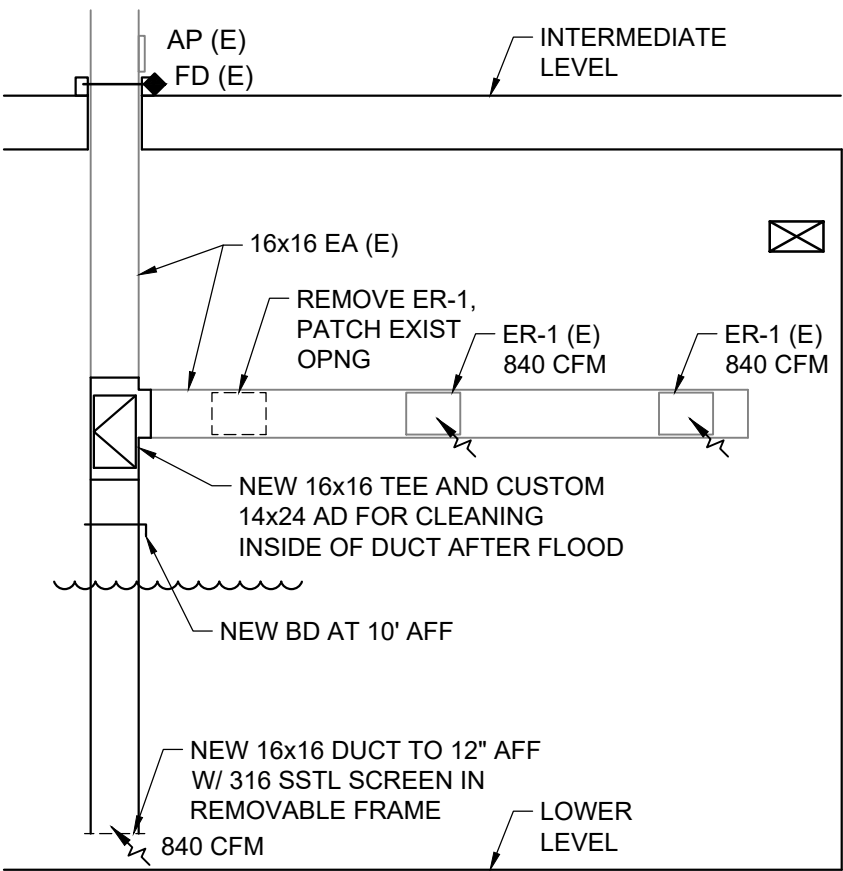
1 SECTION
3/16"=1'-0"



2 SECTION
3/16"=1'-0"



3 SECTION
3/16"=1'-0"



4 SECTION
3/16"=1'-0"

GENERAL NOTES:

1. REFER TO 2-H-2 FOR GENERAL NOTES..

NO.	DATE	REVISIONS	APP.

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SCOTT STREET No. 1
LIFT STATION REHABILITATION

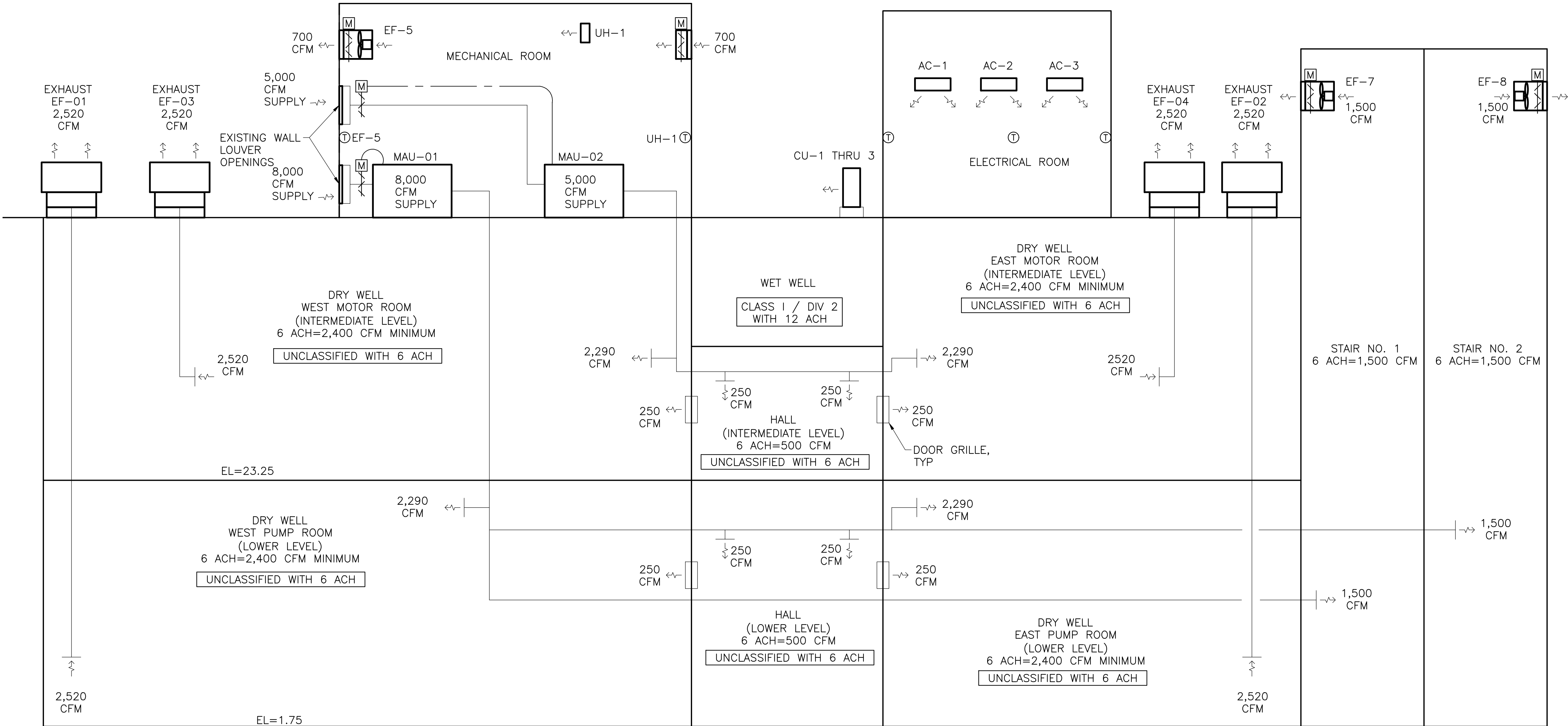
HVAC SECTIONS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: xxx	VERT: xxx
CATEGORY NO. 2-H-8	SHEET NO.	OF xxx
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TBPE REG. NO. F-10804



SEQUENCES OF OPERATION:

1. THE DRY WELLS, HALLS, AND STAIRWELLS ARE VENTILATED 24/7 TO STAY UNCLASSIFIED AT 6 AIR CHANGES PER HOUR, INTERLOCK DAMPERS TO OPEN WHEN THE ASSOCIATED EQUIPMENT IS OPERATING.
2. THE MECHANICAL ROOM IS VENTILATED BY A WALL MOUNTED EXHAUST FAN CONTROLLED BY A 120/1/60 NEMA 4X THERMOSTAT EQUAL TO PECO MODEL TF115-023 (INITIAL SETTING 80 DEGREES). INTERLOCK INTAKE AND EXHAUST DAMPERS TO OPEN WHEN FAN IS ON AND CLOSED WHEN FAN IS OFF.
3. THE MECHANICAL ROOM IS HEATED BY A UNIT HEATER WITH WALL MOUNTED REMOTE THERMOSTAT SUPPLIED BY THE MANUFACTURER (INITIAL SETTING 60 DEGREES).
4. THE ELECTRICAL ROOM IS COOLED AND HEATED BY VARIABLE REFRIGERANT FLOW (VRF) DX UNITS WITH WALL MOUNTED CONTROLLERS SUPPLIED BY THE MANUFACTURER.

NO.	DATE	REVISIONS	APP.

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CITY OF HOUSTON
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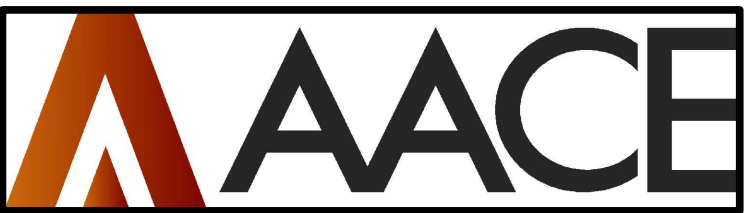
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SCOTT STREET No. 1
LIFT STATION REHABILITATION

HVAC SCHEMATIC

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A HORIZ: XXX VERT: XXX
CATEGORY NO. 2-H-9 SHEET NO. OF XXX
FOR CITY OF HOUSTON USE ONLY



MAKE UP AIR HANDLING UNIT SCHEDULE			
EQUIPMENT TAG NUMBER	MAU-1	MAU-2	
BUILDING	WET WEATHER PUMP STATION	WET WEATHER PUMP STATION	
UNIT TYPE	PACKAGED GAS FIRED	PACKAGED GAS FIRED	
UNIT LOCATION	INDOOR	INDOOR	
UNIT CONFIGURATION	HORIZONTAL	HORIZONTAL	
FAN CONFIGURATION	DRAW-THRU	DRAW-THRU	
ALTITUDE, FT. ABOVE SEA LEVEL	45	45	
ENTERING TEMP. RANGE, DEG. F.	0-115	0-115	
HOUSING MATERIAL - OUTSIDE	ALUMINUM	ALUMINUM	
HOUSING MATERIAL - INSIDE	ALUMINUM	ALUMINUM	
FILTERS:	YES	YES	
FILTER TYPE	WASHABLE	WASHABLE	
FILTER MATERIAL	ALUMINUM	ALUMINUM	
MAX. FACE VELOCITY	500	500	
UNIT SIZE, W X D X H, IN	BY VENDOR	BY VENDOR	
PRESSURE DROP (CLEAN), IN. W.G.	BY VENDOR	BY VENDOR	
HEATING COIL:	YES	YES	
FUEL	NATURAL GAS	NATURAL GAS	
TYPE	INDIRECT FIRED	INDIRECT FIRED	
BURNER MATERIAL	CAST ALUMINUM	CAST ALUMINUM	
AIRFLOW, CFM	5,000	8,000	
MIN. TEMPERATURE RISE, DEG F	37.6	35.2	
UNIT INPUT, MBH	250.00	375.00	
MIN. UNIT OUTPUT, MBH	203.00	304.00	
NUMBER OF STAGES	15:1	15:1	
GAS MIN/MAX PRESSURE, IN. WC	MFR STD	MFR STD	
SUPPLY FAN:			
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	
TOTAL AIRFLOW, CFM	5,000	8,000	
OUTSIDE AIR	100%	100%	
EXTERNAL SP., IN. WG	0.8	0.8	
TOTAL SP., IN. WG	2.75	2.75	
FAN RPM	MFR STD	MFR STD	
DRIVE TYPE	BELT	BELT	
MOTOR HP	5.0	7.5	
MOTOR RPM	1725	1725	
FAN MOTOR ENCLOSURE	TEFC	TEFC	
FAN MOTOR EFFICIENCY	PREMIUM	PREMIUM	
SUPPLY AIR DISCHARGE LOCATION	HORIZONTAL	HORIZONTAL	
ELECTRICAL:			
VOLTS/PHASE/HERTZ	460/3/60	460/3/60	
EMERGENCY POWER	YES	YES	
MINIMUM CIRCUIT AMPACITY	10	13.5	
MAX. OVERCURRENT PROTECTION	15	20	
CONTROL PANEL	NEMA 4X	NEMA 4X	
SOUND DATA (DBA @ 5 FT. RADIUS)	79 MAX	79 MAX	
OPERATING WEIGHT, LBS	2100		
ROOF CURB	N/A	N/A	
MANUFACTURER	ENG-AIR	ENG-AIR	
MODEL NUMBER	DJS40V	DJS40V	
NOTES	1,2,3,4,5	1,2,3,4,5	
REMARKS: (APPLICABLE TO ALL UNITS)			
A. SCHEDULE IS INCOMPLETE WITHOUT SPECIFICATION SECTION 23 74 00.			
B. PROVIDE HINGED ACCESS SECTIONS FOR MAINTENANCE ACCESSIBILITY TO INTERNAL COMPONENTS.			
C. PROVIDE WITH UNIT MOUNTED DISCONNECT AND INTEGRAL MOTOR STARTER.			
NOTES:			
1. T.S.P. = INTERNAL LOSSES (BY VENDOR) + 3X CLEAN FILTER W.G. + E.S.P. (INDICATED ABOVE).			
2. UNIT SHALL BE SINGLE-POINT CONNECTION WITH INTEGRAL TRANSFORMERS FOR CONTROL POWER AND 120V POWER.			
3. PROVIDE WITH FILTER SECTION AND WASHABLE ALUMINUM FILTERS.			
4. PROVIDE WITH CONNECTION AND CONFIGURATION FOR DUCTED COMBUSTION AIR.			
5. PROVIDE WITH HORIZONTAL END DISCHARGE			

CONDENSING UNIT SCHEDULE (DUCTLESS SPLIT SYSTEMS)			
CONDENSING UNIT TAG NUMBER	CU-1 THRU 3		
BUILDING	WET WEATHER PUMP STATION		
AREA SERVED	ELECTRICAL ROOM		
UNIT TYPE	AIR-COOLED		
UNIT CONFIGURATION	HORIZONTAL		
MOUNTING	PAD MOUNTED		
AMBIENT TEMP. RATING DEG F. MAX.	110		
AMBIENT TEMP. RATING DEG F. MIN.	20		
NOMINAL TONS	3.0		
GROSS COOLING CAPACITY, MBH	36.0		
GROSS HEATING CAPACITY, MBH	40.0		
VOLTS/PHASE/HERTZ	208/1/60		
ELECTRICAL MCA, AMPS	34		
ELECTRICAL MOCP, AMPS	56		
MANUFACTURER	TRANE/MITSUBISHI		
MODEL NUMBER	PUZ-AK36NL		
COMPRESSOR TYPE	SCROLL		
REFRIGERANT TYPE	R454B		
COOLING SEER	23.3		
COOLING EER @ 95 DEG F.	13.7		
MOTOR HP	MFR. STD.		
OPERATING WEIGHT, LBS	215		
NOTES:	1		
REMARKS: (APPLICABLE TO ALL UNITS)			
A. SCHEDULE IS INCOMPLETE WITHOUT SPECIFICATION SECTION 15857.			
B. PROVIDE LOW AMBIENT CONTROL WIND BAFFLE FOR OPERATION DOWN TO 0 DEG.F..			
C. UNIT SHALL HAVE SPECIAL COATINGS ON UNIT, INSIDE AND OUT, INCLUDING CONDENSER COIL AND TUBES.			
COATINGS SHALL RESIST HYDROGEN SULFIDE.			
NOTES:			
1. INDOOR UNIT IS POWERED BY OUTDOOR CONDENSING UNIT, FIELD WIRING/CONDUIT BY DIV. 16.			

AIR CONDITIONING UNIT SCHEDULE (DUCTLESS SPLIT SYSTEMS)

AIR CONDITIONER TAG NUMBER	AC-1 THRU 3	
BUILDING	WET WEATHER PUMP STATION	
AREA SERVED	ELECTRICAL ROOM	
UNIT TYPE	SPLIT DX	
UNIT CONFIGURATION	4-WAY	
MOUNTING	CEILING-CASSETTE	
FAN CONFIGURATION	MFR. STD.	
ALTITUDE, FT. ABOVE SEA LEVEL	20 (APPROX)	
NOMINAL TONS	3	
SUPPLY FAN:		
FAN TYPE	CENTRIFUGAL	
TOTAL AIRFLOW, CFM (H/M/L)	670-850-1020-1200	
MIN. OUTSIDE AIR, CFM	NONE	
FAN CONTROL	4-SPEED	
DRIVE TYPE	DIRECT	
COOLING COIL:		
ENT. AIR TEMP., DB/WB, DEG F	80/67	
APPROX. LVG. AIR TEMP., DB/WB, DEG F	55/54	
TOTAL COOLING CAPACITY, MBH	36.0	
SENSIBLE CAPACITY, MBH	28.98	
CALCULATED SENSIBLE LOAD, MBH	22.2	
HEATING:		
TYPE	HEAT PUMP	
RATED CAPACITY, MBH	23.6	
REFRIGERANT TYPE	R454B	
FILTERS	MFR STD	
REFRIGERANT LIQUID PIPE SIZE, IN	3/8	
REFRIGERANT GAS PIPE SIZE, IN	5/8	
DRAIN PIPE SIZE	1-1/4	
ELECTRICAL:	NOTE 1	
VOLTS/PHASE/HERTZ	208/1/60	
MINIMUM CIRCUIT AMPACITY, MCA	2	
OPERATING WEIGHT, LBS	57	
MANUFACTURER	MITSUBISHI	
MODEL NUMBER	PLA-AE36NL	
ASSOCIATED CONDENSING UNITS	CU-1 THRU 3	
NOTES	1	

REMARKS: (APPLICABLE TO ALL UNITS)

A. SCHEDULE IS INCOMPLETE WITHOUT SPECIFICATION SECTION 15857.

B. PROVIDE WIRED WALL MOUNTED CONTROLLER.

C. PROVIDE MANUFACTURER STANDARD CONDENSATE PUMP AND HIGH WATER CUTOFF.

D. PROVIDE WITH EEV KITS PER MANUFACTURER.

NOTES:

1. INDOOR UNIT IS POWERED BY OUTDOOR CONDENSING UNIT, FIELD WIRING/CONDUIT BY DIV. 16.

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

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Engineer: RICARDO AZCARATE

P.E. Serial No.: 81863

Date: JANUARY 2026

 **QUIDDITY**

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

CITY OF HOUSTON
HARRIS COUNTY, TEXAS

DATE: JANUARY 2026	DGN BY:
JOB NO: 00050-0099-01	DWG BY: M ANDERSON

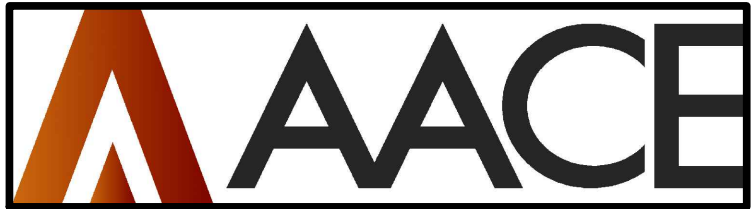
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

SCOTT STREET No. 1
LIFT STATION REHABILITATION

HVAC SCHEDULES I

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A HORIZ: **xxx** VERT: **xxx**
CATEGORY NO. **2-H-10** SHEET NO. OF **xxx**
FOR CITY OF HOUSTON USE ONLY



METAL FAN SCHEDULE				
EQUIPMENT TAG NUMBER	EF-1 THRU 4	EF-5	EF-7 AND 8	
BUILDING	WET WEATHER PUMP STATION	WET WEATHER PUMP STATION	WET WEATHER PUMP STATION	
SERVICE	EXHAUST (24/7)	EXHAUST (SUMMER)	EXHAUST (24/7)	
UNIT CONFIGURATION	UPBLAST	SIDEWALL	SIDEWALL	
LOCATION	ROOF	MECHANICAL	STAIR	
DISCHARGE	TOP	SIDEWALL	SIDEWALL	
ALTITUDE, FT. ABOVE SEA LEVEL				
FAN MATERIAL OF CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM	
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	
AIRFLOW, CFM	2,520	700	1,500	
TOTAL STATIC PRESSURE, IN. WG	0.5	0.3	0.3	
AIR STREAM TEMP RANGE, DEG F	50-110	50-110	50-110	
FAN RPM	1,555	749	1,056	
DRIVE TYPE	DIRECT	DIRECT	DIRECT	
MOTOR HP	1.0	0.25	860.00	
MOTOR RPM	1,555	1,043	1,600	
MOTOR ENCLOSURE	TEFC	TENV	TEFC	
FAN SPEED CONTROL	YES	YES	YES	
VOLTS/PHASE/HERTZ	460/3/60	115/1/60	115/1/60	
EMERGENCY POWER	PER NFPA 820	PER NFPA 820	PER NFPA 820	
SPARK PROOF	NO	NO	NO	
SOUND DATA (DBA @ 5 FT. RADIUS)	67	61	68	
VIBRATION ISOLATORS	MFR STD	MFR STD	MFR STD	
STANDARD CURB CAP SIZE, IN x IN	22x22	NONE	NONE	
CURB EXTENSION HEIGHT, IN	NONE	NONE	NONE	
CURB ADAPTER SIZE, IN x IN	SEE PLANS	NONE	NONE	
ROOF/WALL OPENING SIZE, IN x IN	SEE PLANS	SEE PLANS	SEE PLANS	
OPERATING WEIGHT, LBS	100	103	147	
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	
MODEL NUMBER	CUE-140-VG	AER-20-VG	AER-20-VGD	
DAMPER	NONE	SEE PLANS	NONE	
NOTES	1, 2, 5	1, 2	1, 2	
CONTROLS	24/7	SEE PLANS	24/7	
GENERAL NOTES: (APPLICABLE TO ALL UNITS)				
1. SCHEDULE IS INCOMPLETE WITHOUT SPECIFICATION SECTION 23 34 00.				
2. PROVIDE ALL BELT DRIVEN EQUIPMENT WITH ONE SET OF SPARE BELT(S).				
NOTES:				
1. PROVIDE WITH ALUMINUM CONSTRUCTION, STAINLESS STEEL SHAFT AND FASTENERS, AND COATINGS ON FAN AND ACCESSORIES.				
2. PROVIDE WITH 50 DEGREE CELCIUS RATED PREMIUM EFFICIENCY MOTOR.				
3. PROVIDE WITH PITCHED ALUMINUM CURB TO MATCH ROOF SLOPE, INSULATION, WOOD NAILER, AND FOAM CURB SEAL.				
4. PROVIDE WITH ALUMINUM 12" CURB EXTENSION WITH ACCESS DOOR AND ALUMINUM BACKDRAFT DAMPER.				
5. PROVIDE ALUMINUM CURB ADAPTER, COORDINATE WITH STRUCTURAL FOR CONCRETE CURB DIMENSIONS.				
6. PROVIDE WITH ALUMINUM GRILLE, WALL DISCHARGE CAP, 6" DUCT CONNECTION, COATING COLOR TBD BY ARCHITECTURAL.				
7. PROVIDE WITH SHORT WALL HOUSING WITH OSHA GUARD				
8. PROVIDE WITH WEATHERHOOD KIT AND BIRSCREEN AT INTAKE AIR OPENING, ALL ALUMINUM CONSTRUCTION.				

ELECTRIC UNIT HEATER SCHEDULE		
EQUIPMENT TAG NUMBER	UH-1	
BUILDING	CHEMICAL BUILDING	
ROOM SERVED	SODIUM HYPOCHLORITE ROOM	
TOTAL CAPACITY, KW PER HEATER	10.0	
AIRFLOW, CFM	700	
AIR THROW, FT	N/A	
AIR TEMP RISE, DEG F	45	
FAN TYPE	PROPELLER	
MOTOR ENCLOSURE	TEFC	
TERMINAL ENCLOSURE	N/A	
RATING	N/A	
VOLTS/PHASE/HERTZ PER HEATER	480/3/60	
TOTAL CURRENT DRAW, AMPS	12.7	
EMERGENCY POWER	NO	
OPERATING WEIGHT, LBS	45	
MANUFACTURER	INDEECO UCI	
MODEL NUMBER	926U10000UA	
CONTROLS NOTES	C1	
REMARKS: (APPLICABLE TO ALL UNITS)		
A. SCHEDULE IS INCOMPLETE WITHOUT SPECIFICATION SECTION 15550.		
B. PROVIDE CLEARANCES PER MANUFACTURER.		
C. UNIT SHALL BE MOUNTED AT 8'-0" UNLESS NOTED OTHERWISE.		
NOTES:		
1. UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH INTEGRAL TRANSFORMER FOR UNIT CONTROLS. DISCONNECT BY ELECTRICAL.		
2. PROVIDE WITH SWIVEL BRACKET FOR WALL OR CEILING MOUNTING AS INDICATED ON PLANS.		
3. HEATING ELEMENTS SHALL BE 316 STAINLESS STEEL.		
4. PROVIDE WITH REMOTE MOUNTED NEMA4X THERMOSTAT AND AUTO RESET THERMAL CUTOUT.		
CONTROLS NOTES:		
C1. UNIT SHALL RUN INTERMITTENTLY, TURNING ON/OFF BASED ON ROOM THERMOSTAT SETPOINT.		

NO.	DATE	REVISIONS	APP.

INTERIM REVIEW

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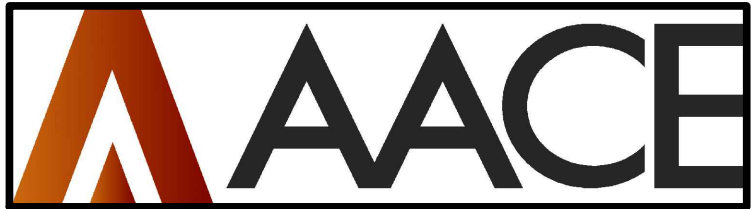
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LIFT STATION REHABILITATION

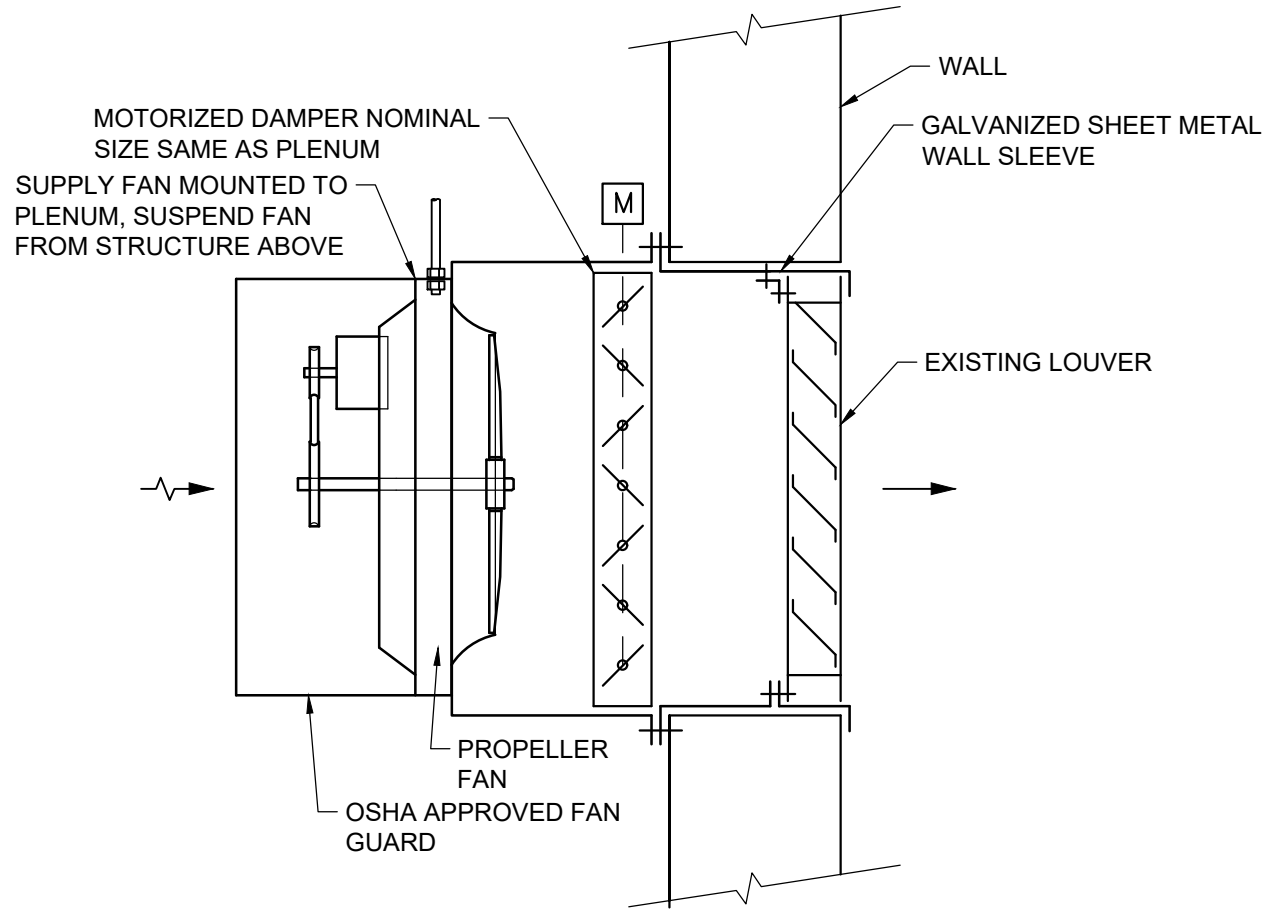
HVAC SCHEDULES II

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A	HORIZ: xxx	VERT: xxx
CATEGORY NO. 2-H-11	SHEET NO.	OF xxx
FOR CITY OF HOUSTON USE ONLY		



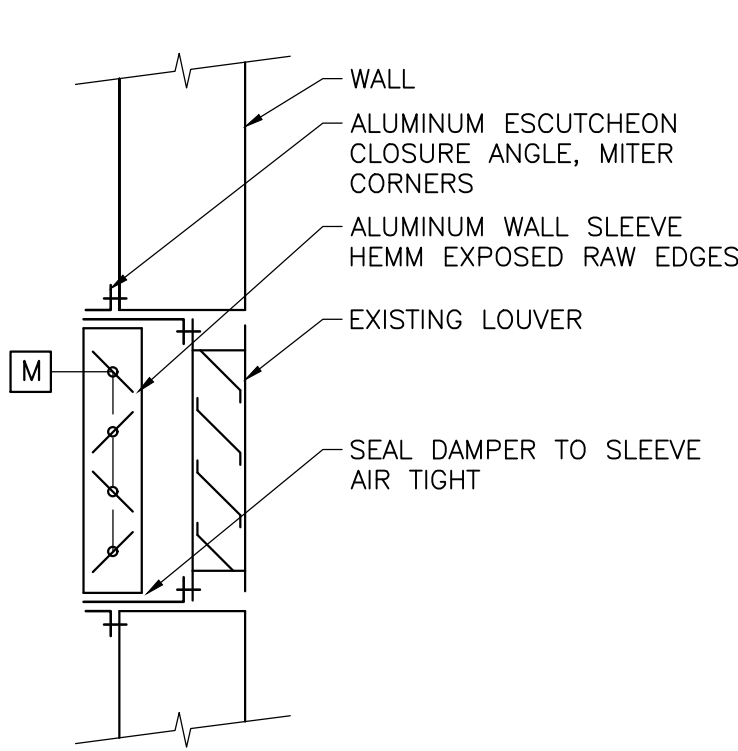
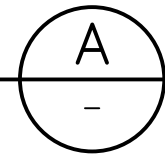
0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



WALL MOUNTED EXHAUST FAN

DETAIL

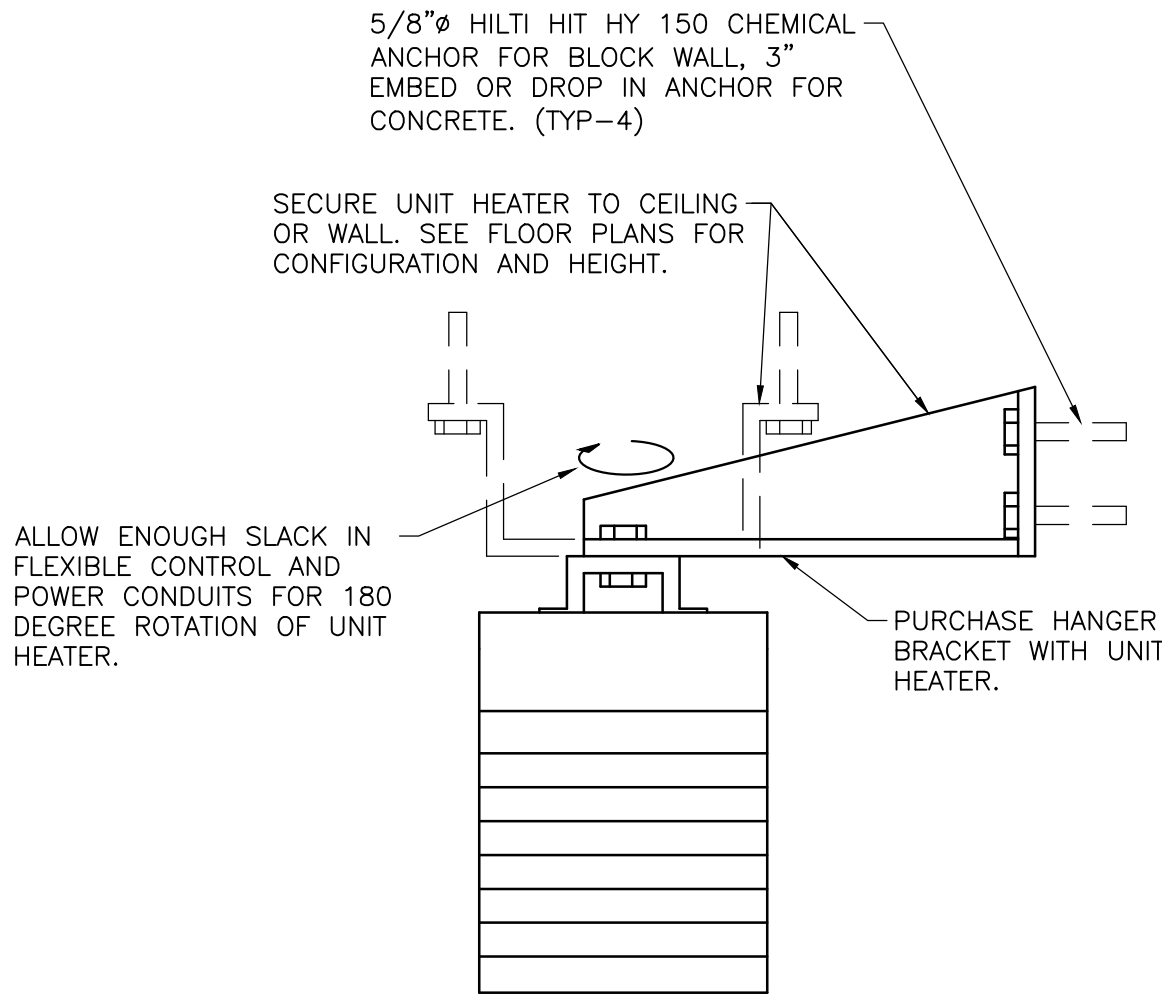
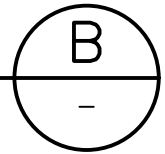
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INTAKE DAMPER AT LOUVER

DETAIL

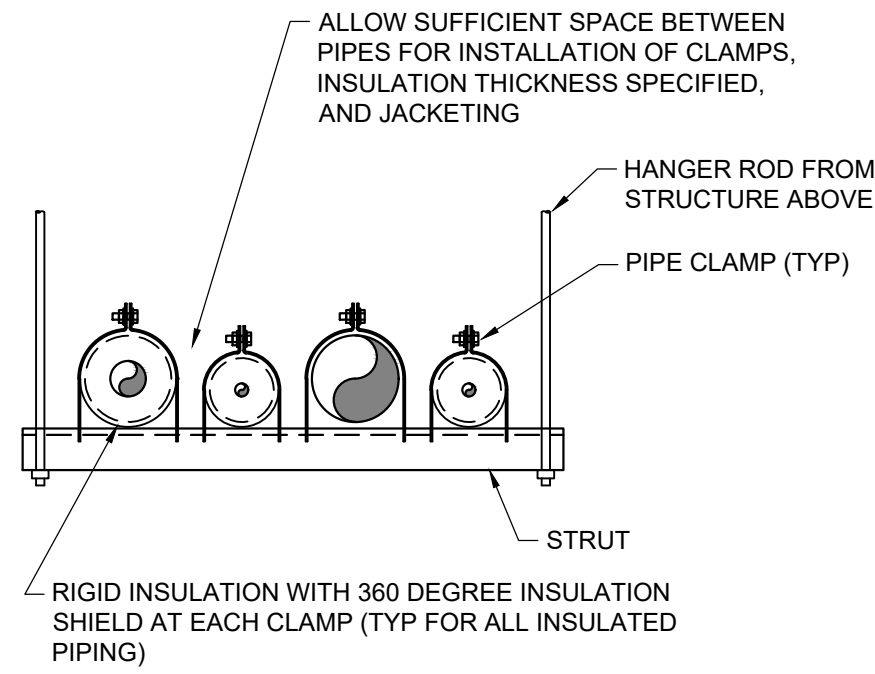
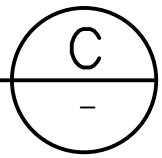
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HORIZONTAL ELECTRIC
UNIT HEATER

DETAIL

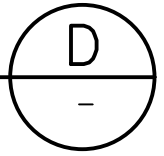
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TRAPEZE HANGER

DETAIL

NTS



NOTES:

- DO NOT PENETRATE INSULATION WITH PIPE CLAMPS.
- GALVANIZED, CLAMPS, RODS, AND HARDWARE, TYP.

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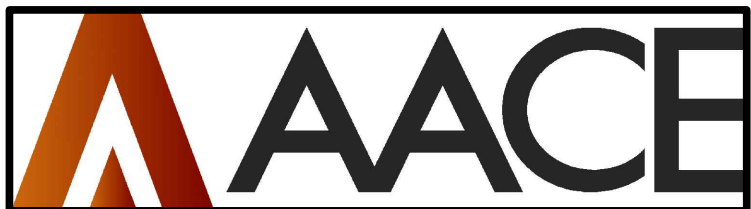
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
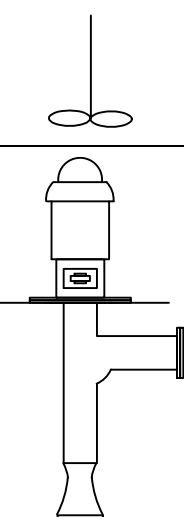
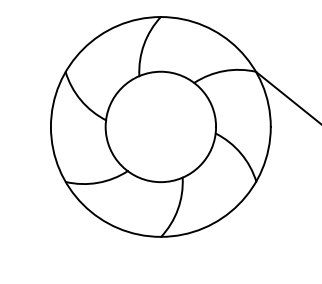


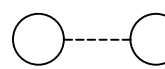


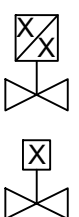




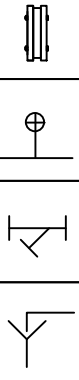
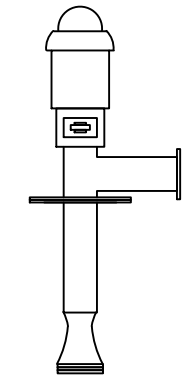
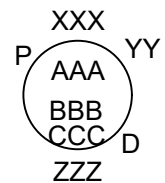





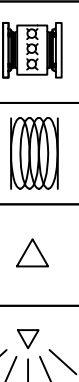
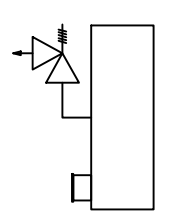
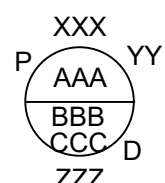


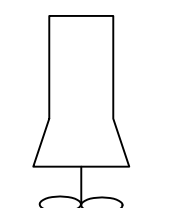
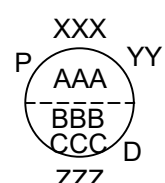



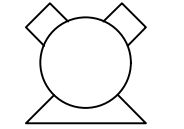
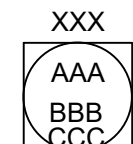




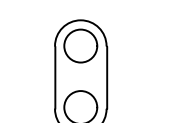
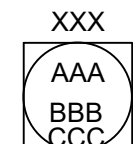



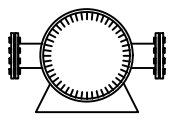
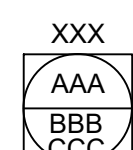



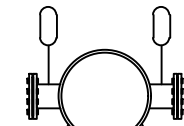





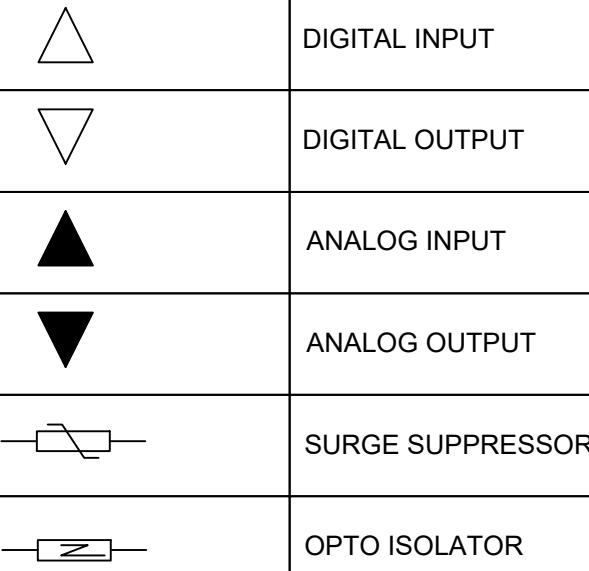


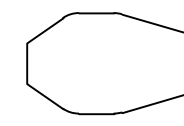



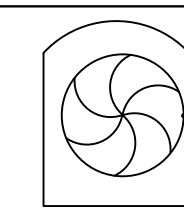

HVAC DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE N/A HORIZ: **xxx** VERT: **xxx**
CATEGORY NO. **2-H-12** SHEET NO. _____ OF **xxx**
FOR CITY OF HOUSTON USE ONLY



TBPE REG. NO. F-10804

012345		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS																											
PRIMARY FLOW ELEMENTS			VALVES			PUMPS, BLOWERS AND MISC EQUIPMENT			PUMPS, BLOWERS AND MISC EQUIPMENT			CONTROL ENCLOSURE, INSTRUMENTS AND SCADA																	
	MAGNETIC FLOW METER		SOLENOID ACTUATED VALVE			MIXER/FLOCCULATOR/AERATOR			ROTARY SCREEN		 FUNCTION SYMBOLS AND ABBREVIATIONS K PROPORTIONAL GAIN OR ATTENUATE (INPUT/OUTPUT) -K REVERSE PROPORTIONAL GAIN OR ATTENUATE (INPUT/OUTPUT) Σ SUMMING ΣΔ AVERAGING Δ SUBTRACTING √ EXTRACT SQUARE ROOT ÷ DIVIDE X MULTIPLY S INTEGRATE + BIAS POSITIVE - BIAS NEGATIVE F(x) NONLINEAR OR UNSPECIFIED FUNCTION > HIGH SELECT ◁ LOW SELECT ▷ HIGH LIMIT ◁ LOW LIMIT	INSTRUMENT (COMMON HOUSING) 	INSTRUMENT (SEPERATOR HOUSING) 	INSTRUMENT (PART OF MAJOR EQUIPMENT) 															
	ULTRASONIC DOPPLER FLOW METER		<table><tr><td>"X"</td><td></td></tr><tr><td>P</td><td>AIR CYLINDER</td></tr><tr><td>O</td><td>OIL CYLINDER</td></tr><tr><td>H</td><td>HYDRAULIC CYLINDER</td></tr><tr><td>E</td><td>ELECTRIC MOTOR</td></tr><tr><td>S</td><td>SOLENOID VALVE</td></tr></table>			"X"			P	AIR CYLINDER					O	OIL CYLINDER	H	HYDRAULIC CYLINDER	E	ELECTRIC MOTOR	S	SOLENOID VALVE	VERTICAL PUMP-1 USED WHEN DISCHARGE LINE IS IN WETWELL						
"X"																													
P	AIR CYLINDER																												
O	OIL CYLINDER																												
H	HYDRAULIC CYLINDER																												
E	ELECTRIC MOTOR																												
S	SOLENOID VALVE																												
	ULTRASONIC TIME TRANSIT FLOW METER																												
	VORTEX FLOW METER																												
	VENTURI TUBE	OR NO SYMBOL	MANUAL VALVE																										
			MISC PROCESS SYMBOLS																										
	TURBINE OR PROPELLER TYPE METER		ANNULAR TYPE SEAL			VERTICAL PUMP-2 USED WHEN DISCHARGE LINE IS EXPOSED.			DIGITAL/ANALOG INSTRUMENT		AAA SA TAG (REFER TO TABLE)		BBB LOOP NUMBER		CCC LOOP NUMBER SUB		D DIVISION NUMBER		P POWER REQUIREMENT		XXX DESCRIPTION (USED ON PANEL INSTRUMENTS)		YY CHEMICAL		ZZZ LOCATION				
	ROTAMETER		CHEMICAL INJECTION POINT																										
	PITOT TUBE		STRAINER																										
	WEIR FLOW METER		DRAIN																										
	PARSHALL FLUME OR TRAPEZOIDAL FLUME		NORMAL OPERATING LEVEL																										
	ORIFICE PLATE		UV CHAMBER			VERTICAL PUMP SHAFT USED WHEN INTAKE OF PUMP IS ENCASED.			DIGITAL/ANALOG INSTRUMENT		-LOCATED IN THE FIELD		-NOT INSIDE OF PANEL		-VISIBLE AT FIELD LOCATION		-NORMALLY OPERATOR ACCESSIBLE												
	THERMAL MASS FLOWMETER		FLOW STRAIGHTENER																										
PRIMARY LEVEL ELEMENTS																													
	ULTRASONIC LEVEL TRANSDUCER		LOAD CELL				SUBMERSIBLE MIXER			DIGITAL/ANALOG INSTRUMENT		-LOCATED INSIDE PANEL		-NOT VISIBLE TO OPERATOR		-NORMALLY NOT ACCESSIBLE													
	RADAR LEVEL TRANSDUCER		SPRAY NOZZLE																										
	PRIMARY ELEMENT PRESSURE PROBE LEVEL TRANSMITTER		BLIND FLANGE																										
	BUBBLER LEVEL TUBE ELEMENT		FLANGE			COMPRESSOR			DISPLAY (INDICATION/CONTROLLER)		AAA SA TAG (REFER TO TABLE)		BBB LOOP NUMBER		CCC LOOP NUMBER SUB		XXX DESCRIPTION												
	CONDUCTIVE LEVEL PROBE		DIAPHRAGM SEAL																										
	FLOAT SWITCH		PRESSURE RELIEF (OUT)																										
VALVES																													
	VALVE - OTHER IN-LINE TYPE NOT OTHERWISE IDENTIFIED		VACUUM RELIEF (IN)			FEED PUMP			DISPLAY (INDICATION/CONTROLLER)		-LOCATED IN THE FIELD		-NOT INSIDE OF PANEL		-VISIBLE AT FIELD LOCATION		-NORMALLY OPERATOR ACCESSIBLE												
	THREE-WAY VALVE																												
	BALL VALVE		GATES																										
	GLOBE VALVE		SLUICE/SLIDE GATE			GRINDER/MACERATOR			DISPLAY (INDICATION/CONTROLLER)		-LOCATED ON PANEL		-VISIBLE TO OPERATOR		-NORMALLY OPERATOR ACCESSIBLE														
	PINCH VALVE		FLOW CONTROL GATE																										
	GATE VALVE		MOTORS																										
	NEEDLE VALVE		VARIABLE SPEED MOTOR			PLUNGER PUMP			INTERLOCKING RELAY																				
	DIAPHRAGM VALVE		CONSTANT SPEED MOTOR																										
	BUTTERFLY VALVE		PUMPS, BLOWERS AND MISC EQUIPMENT																										
	CHECK VALVE WITH FLOW DIRECTION		CENTRIFUGAL BLOWER			PERISTALTIC METERING PUMP			DIGITAL INPUT																				
	PLUG VALVE		CENTRIFUGAL PUMP																										
	PRESSURE-REDUCING REGULATOR INTERNAL PRESSURE TAP		DIAPHRAGM PUMP AND MOTOR			CENTRIFUGE																							
	BACK PRESSURE REGULATOR INTERNAL PRESSURE TAP		PROGRESSIVE CAVITY PUMP								SURGE SUPPRESSOR																		
	PRESSURE-REDUCING REGULATOR EXTERNAL PRESSURE TAP		SUBMERSIBLE PUMP								OPTO ISOLATOR																		
	BACK PRESSURE REGULATOR EXTERNAL PRESSURE TAP					PULSATION DAMPENER			SIGNAL CONVERTER/ ISOLATOR		*/- (INPUT/OUTPUT)		*DEFINED AS FOLLOWS:		E - VOLTAGE		I - CURRENT		P - PNEUMATIC		PD- PULSE DURATION		H - HYDRAULIC		O - ELECTROMAGNETIC, SONIC		R - RESISTANCE (ELECTRIC)		

LINE SYMBOLS	
	MAJOR PROCESS LINE
	MINOR PROCESS LINE
	FUTURE PROCESS LINE
	EXISTING PROCESS LINE
	HARDWIRED SIGNAL
	SOFT LINK
	HYDRAULIC LINK
	PNEUMATIC LINK
	CAPILLARY TUBE OR FILLED SYSTEM SIGNAL
	ELECTROMAGNET OR SONIC SIGNAL (GUIDED)
	(USED WHEN REFERRING TO A SHEET IN THE DESIGN SET) DESCRIPTION - WHERE FLOW IS GOING SHEET# - WHAT SHEET PROCESS CONTINUES ON X - USED WHEN TWO OR MORE ARROWS ARE REFERRING TO THE SAME SHEET. Y - USED WHEN TWO OR MORE ARROWS ARE REFERRING TO THE SAME SHEET.
	(USED WHEN REFERRING TO A SHEET NOT IN THE DESIGN SET) DESCRIPTION - WHERE FLOW IS GOING
	CAT-5e ETHERNET CABLE
	CAT-6 ETHERNET CABLE
	MODBUS PLUS CABLE
	RS-485 CABLE
	RS-232 CABLE
	POWER OVER ETHERNET CABLE
	T1 FIBER CONNECTION
	NON-SPECIFIC FIBER OPTIC CABLE
	FIBER 100BASE-FX
	FIBER 1000BASE-FX
	SIGNAL CROSSING
	PROCESS LINE CROSSING
	PROCESS LINE/ HARDWIRE SIGNAL CROSSING

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

EQUIPMENT/LOOP TAGGING	
	EQUIPMENT TAG USED TO IDENTIFY NON-INSTRUMENT EQUIPMENT
	LOOP TAG USED TO TIE THE PROCESS FLOW DIAGRAM TO A LOOP DIAGRAM
STANDARD VALVE AND PIPING USAGE	
	BLOCK/BLEED VALVE ARRANGEMENT
	INSTRUMENTS WITH VALVE ONLY
	INSTRUMENTS WITH DIAPHRAGM SEAL
	INSTRUMENTS WITH ANNULAR SEAL
PANEL DETAIL SYMBOLS	
	INDICATING LIGHT -R RED (ACTIVE EQUIPMENT) -G GREEN (EQUIPMENT OFF) -W WHITE (POWER) -B BLUE (CONDITION BACKWASH IN PROGRESS) -A AMBER (ALARM CONDITION)
	SWITCH -L/R (LOCAL - REMOTE) -L/O/A (LOCAL - OFF - AUTO) -L/O/R (LOCAL - OFF - REMOTE) -H/O/A (HAND - OFF - AUTO) -H/O/R (HAND - OFF - REMOTE)
	PUSHBUTTON
	HORN
	BEACON
	OPERATOR INTERFACE TERMINAL
SECURITY SYSTEM SYMBOLS	
	CLOSED CIRCUIT TELEVISION CAMERA
	PAN, TILT, ZOOM CAMERA

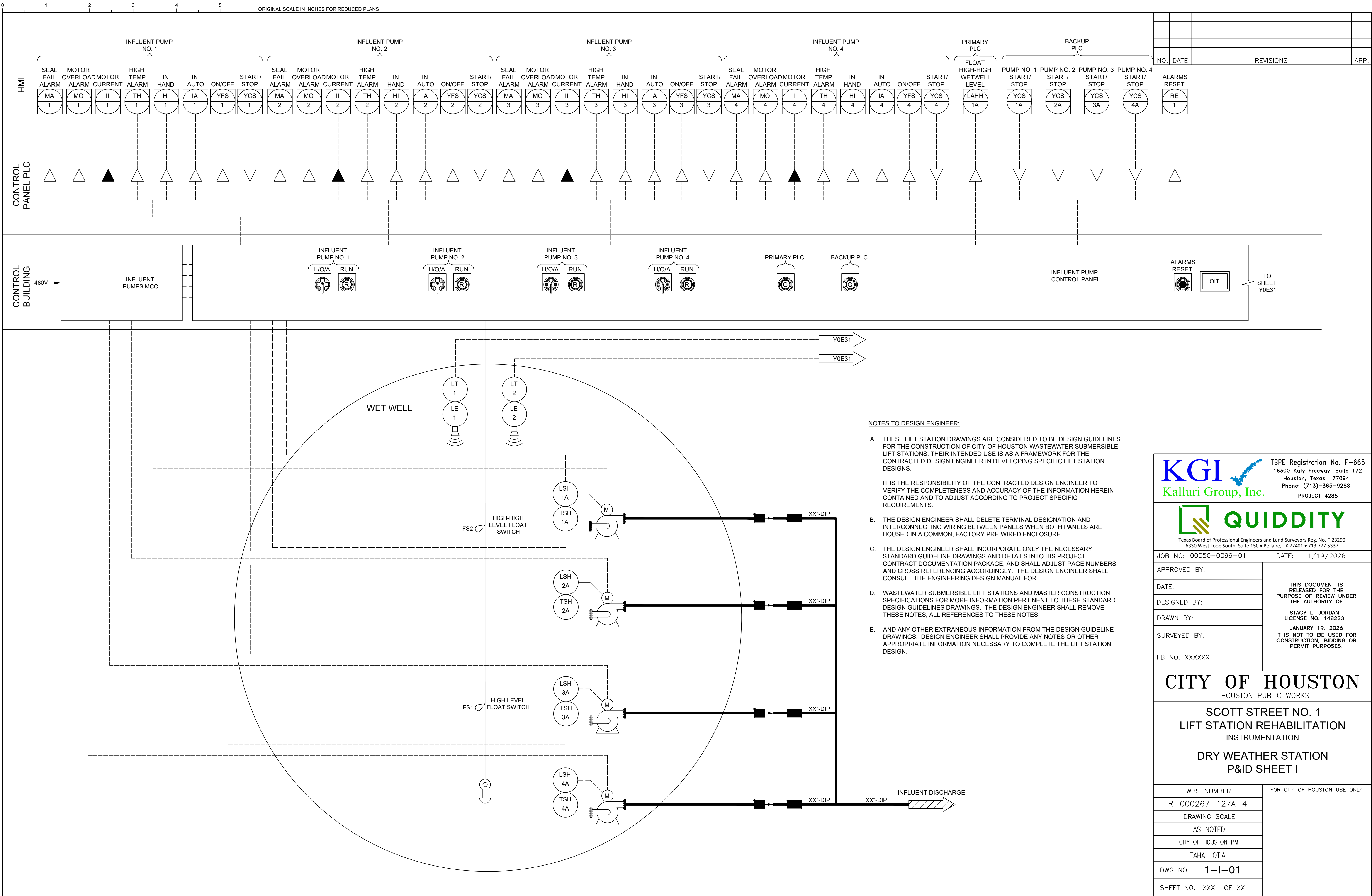
GENERAL ABBREVIATIONS	
AI	ANALOG INPUT
AL	ALARM PILOT LIGHT
AO	ANALOG OUTPUT
AS	AIR SUPPLY
ASD	ADJUSTABLE SPEED DRIVE
ASP	APPLICATION SERVICE PROVIDER
BFV	BUTTERFLY VALVE
CCTV	CLOSED CIRCUIT TELEVISION
CH4	METHANE
CL2	CHLORINE
COND	CONDUCTIVITY
COMP	COMPUTER
CP	CONTROL PANEL
CPU	CENTRAL PROCESSING UNIT
CRC	CONTROL ROOM CONSOLE
CTU	CENTRAL TELEMETRY UNIT
DCU	DISTRIBUTED CONTROL UNIT
DI	DIGITAL OR DISCRETE INPUT
DO	DISSOLVED OXYGEN OR DIGITAL OUTPUT
DPU	DISTRIBUTED PROCESSING UNIT
EPP	ETHERNET PATCH PANEL
ES	EMERGENCY STOP
ESW	ETHERNET SWITCH
ETM	ELAPSED TIME METER
FC	FAIL CLOSED
FCP	FIELD CONTROL PANEL
FCS	FILTER CONTROL STATION
FCV	FLOW CONTROL VALVE
FLP	FAIL LAST POSITION
FO	FAIL OPEN
FOPP	FIBER OPTIC PATCH PANEL
FPR	FEEDER PROTECTION RELAY
H2S	HYDROGEN SULFIDE
HMI	HUMAN MACHINE INTERFACE
JB	JUNCTION BOX
IO	INPUT/OUTPUT
IR	INFRARED
LAS	LIQUID AMMONIA SULFATE
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LT	LEVEL TRANSMITTER
LPU	LOCAL PROCESSING UNIT
LTS	LOCAL TERMINAL SYSTEM
MC	MOTOR CONTROLLER
NAOCL	SODIUM HYPOCHLORIDE
NC	NORMALLY CLOSED
NH3	AMMONIA
NIM	NETWORK INTERFACE MODULE
NO	NORMALLY OPEN
MCC	MOTOR CONTROL CENTER
MM	MULTI MODE FIBER OPTIC CABLE
MPR	MOTOR PROTECTION RELAY
OIT	OPERATIONS INTERFACE TERMINAL
OL	OVERLOAD
OWS	OPERATOR WORKSTATION
PB	PUSH BUTTON
PCSI	PROCESS CONTROL SYSTEM INTEGRATOR
pH	HYDROGEN ION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PMCS	PROCESS MONITORING CONTROL SYSTEM
POLY	POLYMER
PQM	POWER QUALITY METER
PS	POWER SUPPLY
PSU	POWER SUPPLY UNIT
PV	PINCH VALVE
RBC	REMOTE BASE CONTROLLER
RIO	REMOTE INPUT OUTPUT
RTU	REMOTE TERMINAL UNIT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SM	SINGLE MODE FIBER OPTIC CABLE
SO2	SULFUR DIOXIDE
SOL	SOLENOID
SPD	SURGE PROTECTION DEVICE
UPS	UNINTERRUPTIBLE POWER SUPPLY
TC	TERMINATION CABINET
TURB	TURBIDITY
VIB	VIBRATION
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE

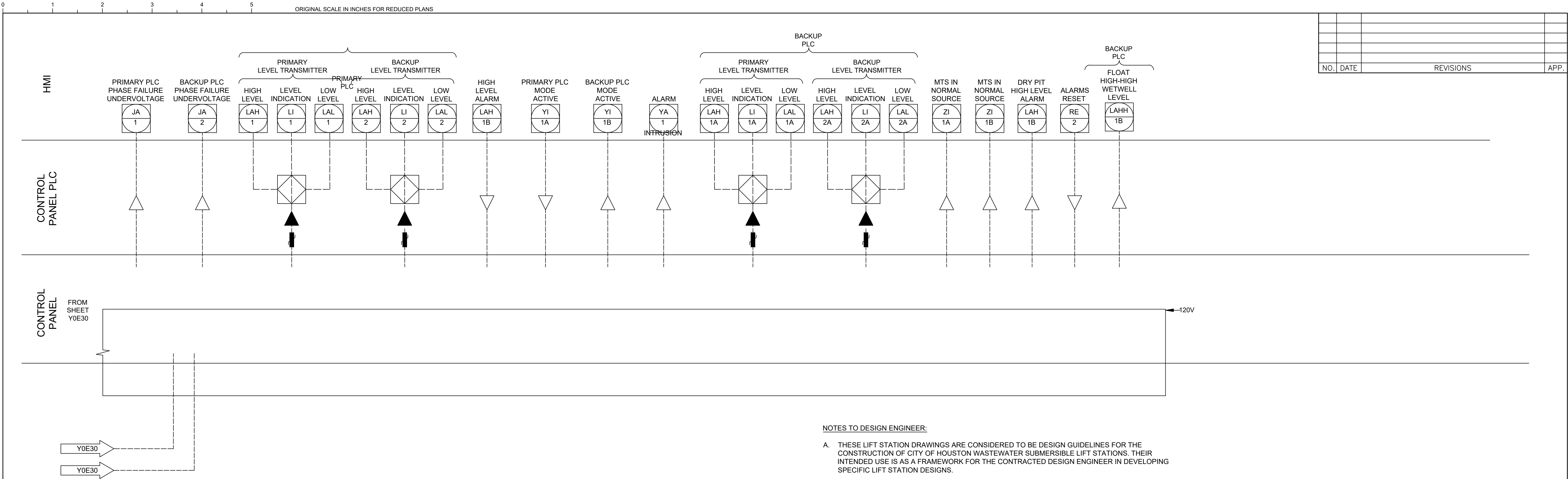
MEANINGS OF IDENTIFICATION LETTERS THIS TABLE APPLIES ONLY TO THE FUNCTIONAL IDENTIFICATION OF INSTRUMENTS.				
FIRST LETTER		SUCCEEDING LETTERS		
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS/ANALYTICAL		ALARM		
B BURNER, COMBUSTION			CLOSE, STOP, DECREASE (1)	
C CONDUCTIVITY			CONTROL	
D DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL		OPEN START, INCREASE (1)	
E VOLTAGE (EMF)		SENSOR (PRIMARY ELEMENT)		
F FLOW RATE	RATIO (FRACTION)			FAIL (1)
G GAUGING (DIMENSIONAL)		GLASS VIEWING DEVICE		
H HAND				HIGH OR OPEN
I CURRENT (ELECTRICAL)		INDICATE		
J POWER	SCAN			
K TIME OR TIME SCHEDULE	TIME RATE OR CHANGE		CONTROL STATION	
L LEVEL		LIGHT (PILOT)		LOW OR CLOSED
M MOISTURE, HUMIDITY, MOTOR, MOTION	MOMENTARY		MOTOR (1)	MIDDLE OR INTERMEDIATE
N USERS CHOICE		USER'S CHOICE		ON OR OPERATE (1)
O USER'S CHOICE		ORIFICE (RESTRICTION)		OVERLOAD (1)
P PRESSURE OR VACUUM		POINT (TEST CONNECTION)	PUMP (1)	
Q QUANTITY (2)	INTEGRATE OR TOTALIZE			
R RADIATION		RECORD		
S SPEED OR FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMIT	
U MULTIVARIABLE (2)		MULTIFUNCTION (2)	MULTIFUNCTION (2)	MULTIFUNCTION (2)
V VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER OR LOUVER	
W WEIGHT OR FORCE		WELL		UNCLASSIFIED (2)
X UNCLASSIFIED (2)	X AXIS	UNCLASSIFIED (2)	UNCLASSIFIED (2)	UNCLASSIFIED (2)
Y EVENT, STATE, PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

COMMON HMI/INSTRUMENT ISA TAGGING	
ABBREVIATION	MEANING
AIT	ANALYTICAL INDICATING TRANSMITTER
AE	ANALYTICAL ELEMENT
AI	CHEMICAL RESIDUAL/INDICATION
CT	CYCLE TIMER
FIT	FLOW INDICATING TRANSMITTER
FE	FLOW ELEMENT
FI	FLOW INDICATION
HS	HAND SWITCH
JAL	POWER ALARM LOW
II	CURRENT INDICATION
LIT	LEVEL INDICATING TRANSMITTER
LE	LEVEL ELEMENT
LI	LEVEL INDICATION
LSH	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
LAL	LEVEL ALARM LOW
LAH	LEVEL ALARM HIGH
PIT	PRESSURE INDICATING TRANSMITTER
PE	PRESSURE ELEMENT
PI	PRESSURE INDICATION
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
SI	SPEED INDICATION
SIC	SPEED INDICATING CONTROLLER
TIT	TEMPERATURE INDICATING TRANSMITTER
TE	TEMPERATURE ELEMENT
TI	TEMPERATURE INDICATION
TSH	TEMPERATURE SWITCH HIGH
WIT	WEIGHT INDICATING TRANSMITTER
WE	WEIGHT ELEMENT
WI	WEIGHT INDICATION
XA	FAULT ANNUNCIATION
YL	MISC. EVENT LIGHT (IN REMOTE)

COMMON HMI/INSTRUMENT ISA TAGGING	
ABBREVIATION	MEANING
ZCH	OPEN GATE/VALVE
ZCL	CLOSE GATE/VALVE
ZSH	POSITION SWITCH HIGH
ZSL	POSITION SWITCH LOW
ZLH	VALVE/GATE OPEN
ZLL	VALVE/GATE CLOSED
ZIT	POSITION INDICATING TRANSMITTER

NO.	DATE	REVISIONS	APP.
NOTICE: FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811			
VERIFICATION OF PRIVATE UTILITY LINES			
Date:			
CenterPoint Energy natural gas utilities shown. (gas services lines are not shown). This signature not to be used for conflict verification. Signature Valid for six months.			
Date:			
CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.			
Date:			
Approved by AT&T Texas / SWBT underground conduit facilities only. Signature valid for one year.			
KGI		TBPE Registration No. F-665 16300 Katy Freeway, Suite 172 Houston, Texas 77094 Phone: (713)-365-9288 PROJECT 4285	
QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337			
JOB NO: 00050-0099-01		DATE: 1/19/2026	
APPROVED BY:		THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF STACY L. JORDAN LICENSE NO. 148233 JANUARY 19, 2026 IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.	
DATE:			
DESIGNED BY:			
DRAWN BY:			
SURVEYED BY:			
FB NO. XXXXXX			
CITY OF HOUSTON HOUSTON PUBLIC WORKS			
SCOTT STREET NO. 1 LIFT STATION REHABILITATION INSTRUMENTATION LEGENDS & SYMBOLS SHEET 2			
WBS NUMBER		FOR CITY OF HOUSTON USE ONLY	
R-000267-127A-4			
DRAWING SCALE			
AS NOTED			
CITY OF HOUSTON PM			
TAHA LOTIA			
DWG NO. 0-I-02			
SHEET NO. OF XX			





NOTES TO DESIGN ENGINEER:

- A. THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTED DESIGN ENGINEER TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION HEREIN CONTAINED AND TO ADJUST ACCORDING TO PROJECT SPECIFIC REQUIREMENTS.
- B. THE DESIGN ENGINEER SHALL DELETE TERMINAL DESIGNATION AND INTERCONNECTING WIRING BETWEEN PANELS WHEN BOTH PANELS ARE HOUSED IN A COMMON, FACTORY PRE-WIRED ENCLOSURE.
- C. THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.
- D. THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.
- E. THE DESIGN ENGINEER SHALL REMOVE THESE NOTES, ALL REFERENCES TO THESE NOTES, AND ANY OTHER EXTRANEIOUS INFORMATION FROM THE DESIGN GUIDELINE DRAWINGS. DESIGN ENGINEER SHALL PROVIDE ANY NOTES OR OTHER APPROPRIATE INFORMATION NECESSARY TO COMPLETE THE LIFT STATION DESIGN.
- F. THE DESIGN ENGINEER SHALL REMOVE THIS SHEET AND REPLACE WITH STANDBY GENERATOR SET SHEET P0G11 IF A PERMANENT STANDBY GENERATOR IS PROPOSED FOR THIS LIFT STATION.

KGI  TBPE Registration No. F-665
Kalluri Group, Inc. 16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

APPROVED BY:	<p>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</p> <p>STACY L. JORDAN LICENSE NO. 148233 JANUARY 19, 2026 IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</p>
DATE:	
DESIGNED BY:	
DRAWN BY:	
SURVEYED BY:	
FB NO. XXXXXX	

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

DRY WEATHER STATION
P&ID SHEET 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-I-02	
SHEET NO. XXX OF XX	

EQUIPMENT AND DEVICE SCHEDULE		
ITEM	QUANTITY	DESCRIPTION
A	1	SINGLE CHANNEL INTRINSICALLY SAFE RELAY
B	2	ANALOG SIGNAL ISOLATOR
C	4	PUMP PROTECTION MODULE
D	*	NOT USED
E	4	HAND-OFF-AUTO SWITCH, 3 POSITION, HEAVY-DUTY OIL TIGHT WITH 2 SETS OF CONTACT BLOCKS (PUMP CONTROL)
F	4	INDICATING LIGHT, HEAVY DUTY, OILTIGHT, RED, 24 VDC, LED, WITH "RUN" LEGEND
G	*	NOT USED.
H	1	SWITCH FOR CABINET LIGHT, 120V, 20A, SPST
I	2	DUPLEX RECEPTACLE, 120V, 20A, 2 WIRE, GROUNDED, GFCI TYPE
J	1	24" LED STRIP LIGHT 120V SUITABLE FOR ZERO DEGREE OPERATION
K	*	NAMEPLATES, SEE SPECIFICATIONS (SEE NAMEPLATE SCHEDULE)
L	2	PROGRAMMABLE LOGIC CONTROLLER WITH EXPANSION UNIT
M	*	CONTROL RELAY 24VDC RELAY WITH THREE FORM C CONTACTS AND 11 PIN SOCKET BASE
N	-	NOT USED
O	-	NOT USED
P	1	NEMA 12 GASKETED STEEL ENCLOSURES WITHOUT VENTS 72" H X 20" D X WIDTH AS REQUIRED
Q	*	TERMINAL BLOCK
R	1	WIRE DUCT 2" WIDE X 2" DEEP MINIMUM
S	1	GROUND BUS
T	1	COMMUNICATION ETHERNET SWITCH
U	9	CARTRIDGE
V	1	PUSHBUTTON, BLACK WITH RESET LEGEND
W	-	NOT USED
X	*	FUSED TERMINAL BLOCKS
Y	1	POWER SURGE PROTECTOR - CONTROL POWER
Z	1	PROGRAMMING SCREEN (OIT)
AA	*	120VAC SYSTEM FUSES
BB	1	120VAC - 24VDC POWER SUPPLY, 5A
CC	*	NOT USED
DD	2	INDICATING LIGHT, HEAVY DUTY, OILTIGHT, GREEN, 24VDC, LED WITH "BACKUP PLC" & "PRIMARY PLC" LEGEND
EE	2	ANALOG I/O SURGE SUPPRESSOR
FF	-	NOT USED

* - AS SCHEDULED

NAMEPLATE SCHEDULE

DESIGNATION	ENGRAVED	DESIGNATION	ENGRAVED
N1	PUMP STATION DESIGNATION	N8	NOT USED.
N2	PUMP NO. 1	N9	NOT USED.
N3	PUMP NO. 2	N10	PROGRAMMING SCREEN
N4	PUMP NO. 3	N11	NOT USED.
N5	PUMP NO. 4	N12	PRIMARY PLC
N6	NOT USED.	N13	BACKUP PLC
N7	NOT USED.	N14	MOTOR DATA
			HORSEPOWER (OUTPUT)
			RPM AT FULL LOAD
			TIME RATING
			FREQUENCY
			NUMBER OF PHASES
			MODEL NUMBER
			RATED VOLTAGE
			SERVICE FACTOR
			FULL LOAD AMPS
			INSULATION CLASS
			NEMA DESIGN LETTER
			TEMPERATURE RISE
			NEMA FRAME SIZE
			DATE OF MANUFACTURE
			THERMO PROTECTION (IF REQUIRED) --
			MOISTURE PROTECTION (IF REQUIRED)-

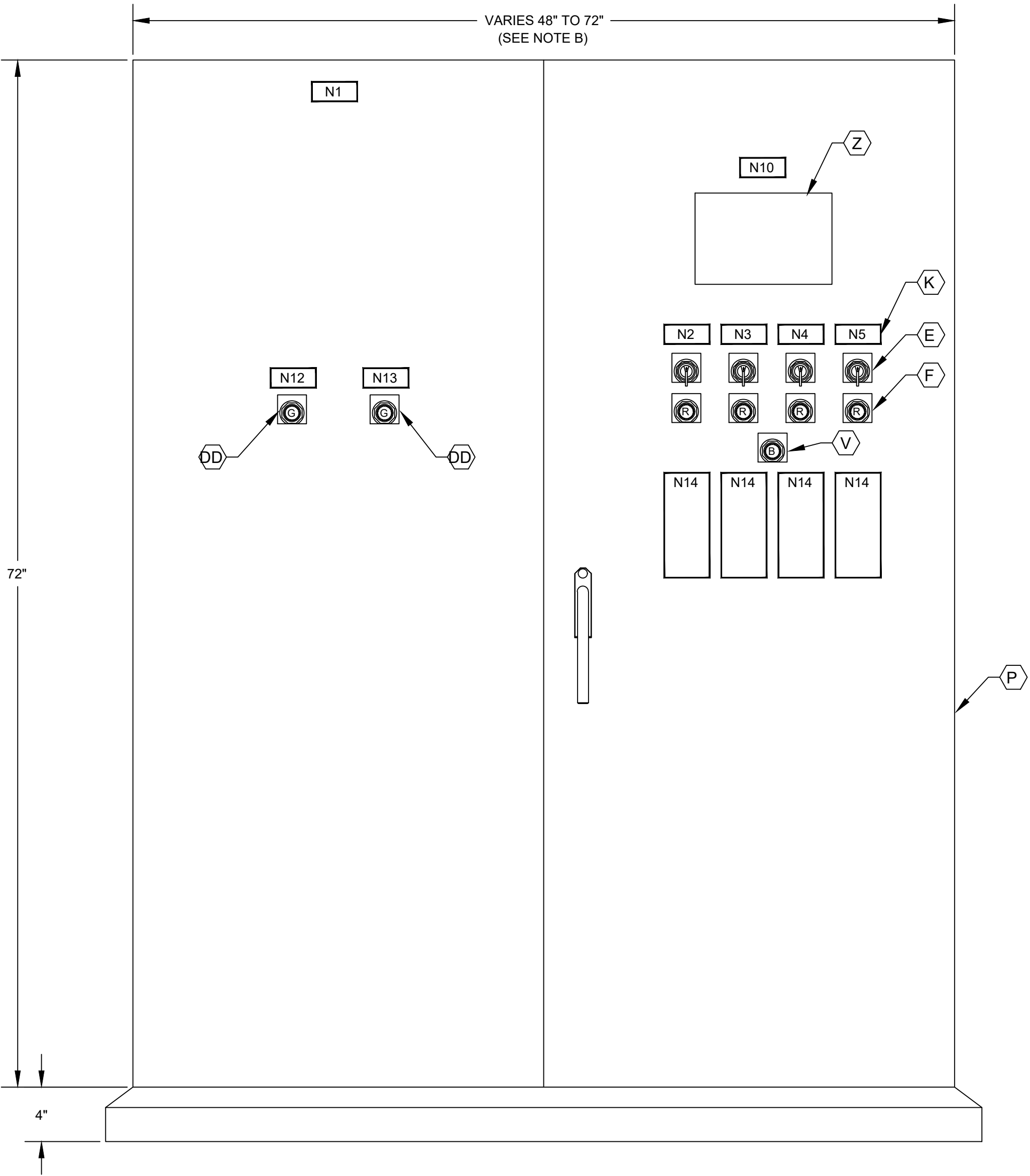
NO.	DATE	REVISIONS	APP.

NOTES TO DESIGN ENGINEER:

- A. THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTED DESIGN ENGINEER TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION HEREIN CONTAINED AND TO ADJUST ACCORDING TO PROJECT SPECIFIC REQUIREMENTS.
- B. THE DESIGN ENGINEER SHALL SELECT THE APPROPRIATE CONTROL PANEL WIDTH (SEE DEVICE RATINGS SCHEDULE ON Z0E16).
- C. THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.
- D. THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INSTRUCTIONS AND INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.
- E. THE DESIGN ENGINEER SHALL REMOVE THESE NOTES, ALL REFERENCES TO THESE NOTES, AND ANY OTHER EXTRANEOUS INFORMATION FROM THE DESIGN GUIDELINE DRAWINGS. DESIGN ENGINEER SHALL PROVIDE ANY NOTES OR OTHER APPROPRIATE INFORMATION NECESSARY TO COMPLETE THE LIFT STATION DESIGN.

NOTES:

1. NAMEPLATES SHALL BE MOUNTED TO PANELS USING STAINLESS STEEL HARDWARE.
2. REFER SPECIFICATIONS FOR ALL PANEL COMPONENTS.




CONTROL CABINET
FRONT DOOR ELEVATION

KGI
Kalluri Group, Inc.

✓

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

**QUIDDITY**

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01

DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL CABINET
EQUIPMENT LAYOUT &
SCHEDULE**

WBS NUMBER
R-000267-127A-4

DRAWING SCALE
AS NOTED

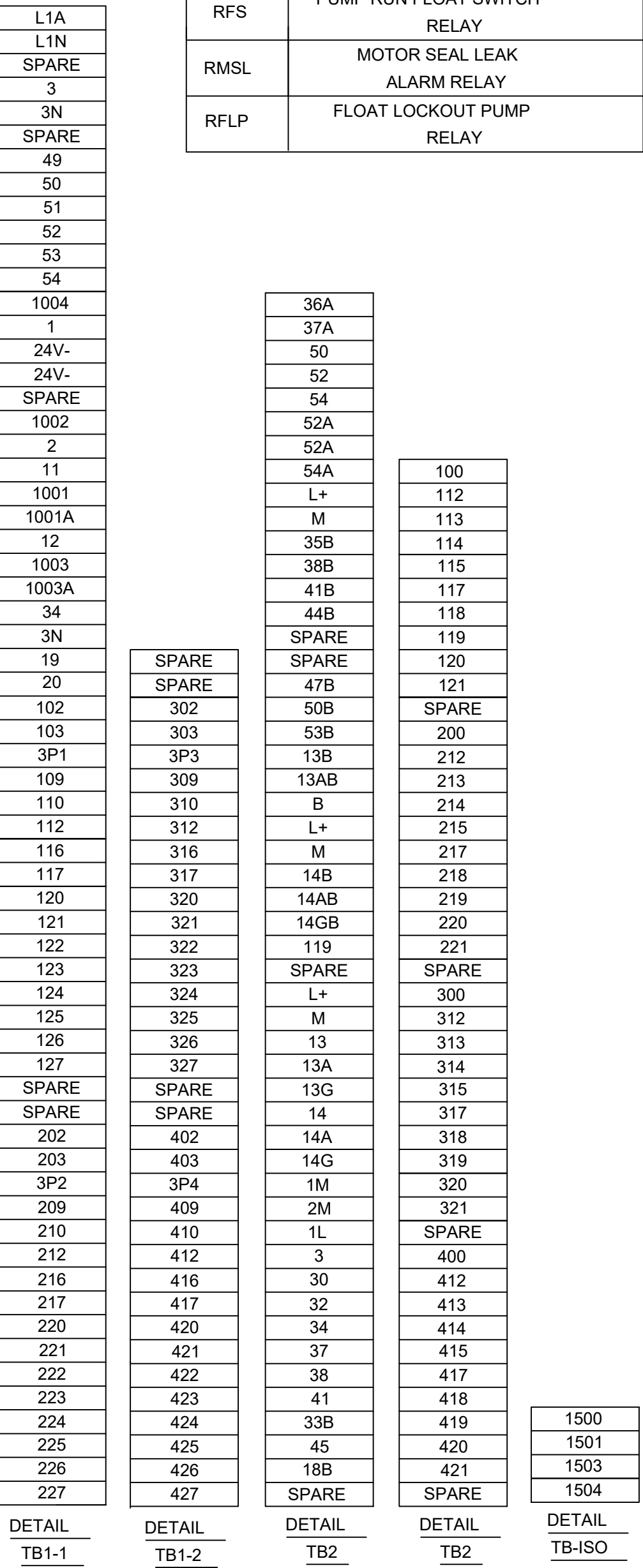
CITY OF HOUSTON PM
TAHA LOTIA

DWG NO. 1-I-03

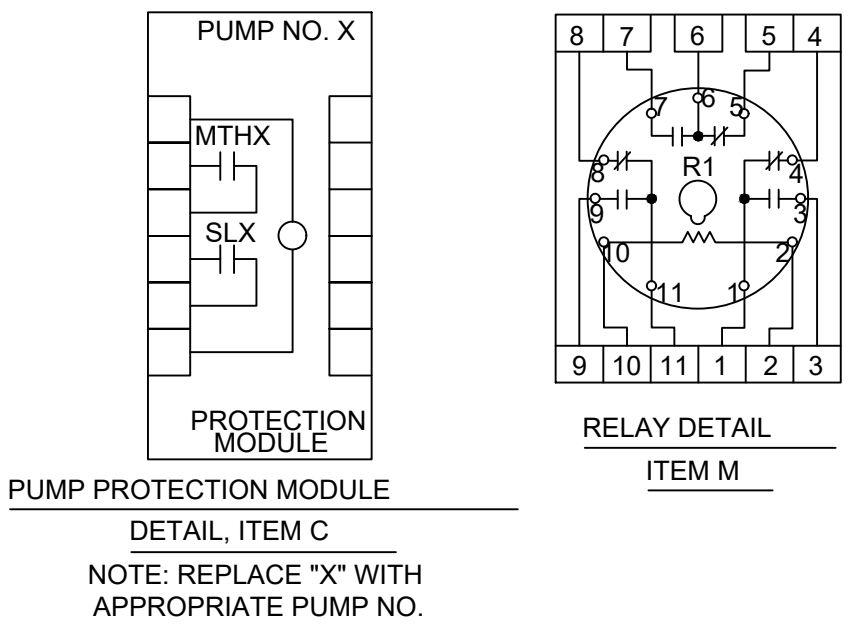
SHEET NO. OF XX

FOR CITY OF HOUSTON USE ONLY

C:\Users\Abigail-Zientek\Kalluri Group, Inc\KGI - Documents\4285-QEL (Scott Street LS)\Drawings\Instrumentation\1-I-03 Control Cabinet Equipment Layout & Schedule.dwg



LEGEND	
TAG	DESCRIPTION
RMTH	MOTOR HIGH TEMPERATURE ALARM RELAY
RPLMP	PLC PUMP RUN RELAY
RRST	PUMP RESET AUX RELAY
RPLC	PLC MODE AUX RELAY
RM	PUMP RUN AUX RELAY
RUV	UNDER VOLTAGE RELAY
RBRM	BACKUP SYSTEM RUN RELAY
ISO	INTRINSICALLY SAFE RELAY
RFS	PUMP RUN FLOAT SWITCH RELAY
RMSL	MOTOR SEAL LEAK ALARM RELAY
RFLP	FLOAT LOCKOUT PUMP RELAY



NOTES TO DESIGN ENGINEER:

A. THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.

IT IS THE RESPONSIBILITY OF THE CONTRACTED DESIGN ENGINEER TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION HEREIN CONTAINED AND TO ADJUST ACCORDING TO PROJECT SPECIFIC REQUIREMENTS.

B. THE DESIGN ENGINEER SHALL SELECT THE APPROPRIATE CONTROL PANEL WIDTH (SEE DEVICE RATINGS SCHEDULE ON ZOE16).




C. THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.

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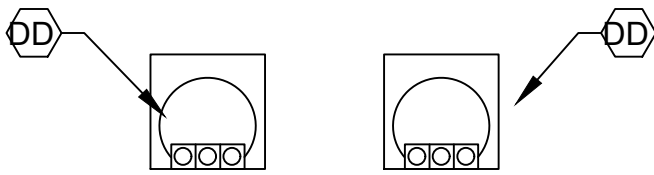
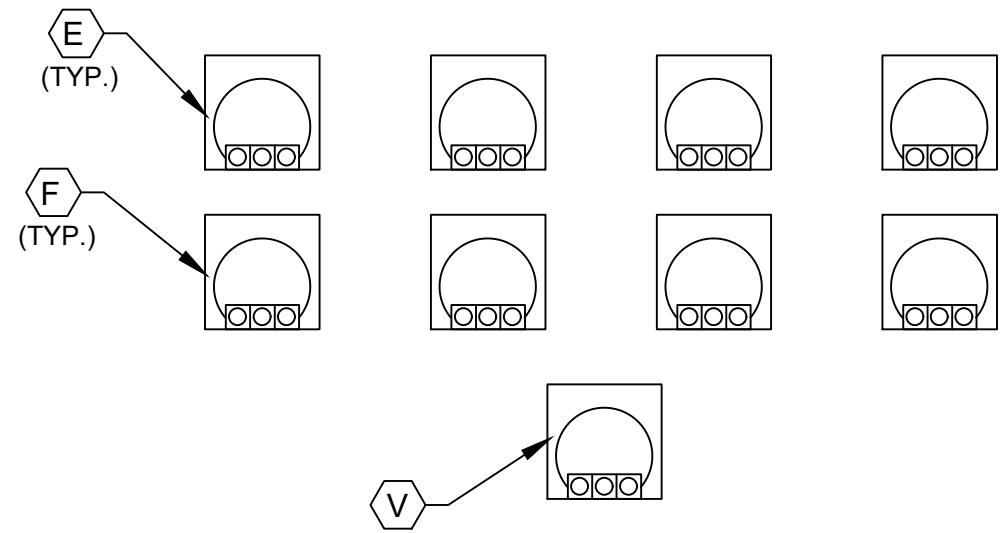
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NOTES:

1. SEE SHEET Y0E21 FOR EQUIPMENT SCHEDULE.

<div><div>Kalluri Group, Inc.</div></div> <div><div><div>TBPE 16300 Katy Freeway, Suite 172 Houston, Texas 77094 Phone: (713)-365-9288</div></div><div>PROJECT 4285</div></div>	
<div><div><div>QUIDDITY</div></div><div>Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337</div></div>	
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APPROVED BY:	<div>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</div> <div>STACY L. JORDAN LICENSE NO. 148233</div> <div>JANUARY 19, 2026</div> <div>IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</div>
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SURVEYED BY:	
FB NO. XXXXXX	
<div><div>CITY OF HOUSTON</div><div>HOUSTON PUBLIC WORKS</div></div>	
<div><div>SCOTT STREET NO. 1</div><div>LIFT STATION REHABILITATION</div><div>INSTRUMENTATION</div><div>CONTROL CABINET</div><div>EQUIPMENT LAYOUT</div></div>	
WBS NUMBER R-000267-127A-4	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-1-04	
SHEET NO. OF XX	

NO.	DATE	REVISIONS	APP.



NOTES TO DESIGN ENGINEER:

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NOTES:

1. SEE SHEET Y0E21 FOR EQUIPMENT SCHEDULE.

KGI

Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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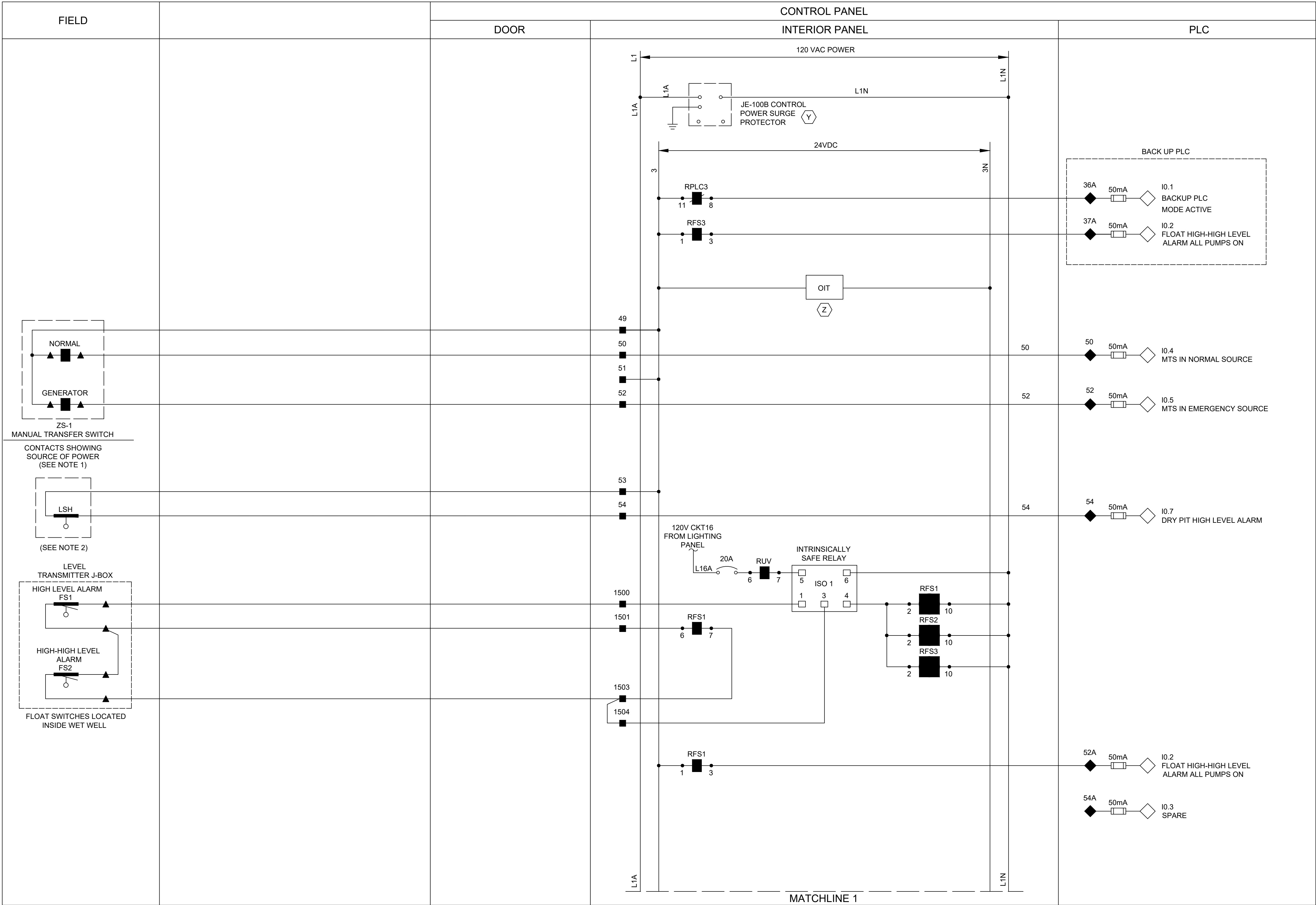
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

CONTROL CABINET
BACK DOOR ELEVATION

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-I-05	
SHEET NO. OF XX	

CONTROL CABINET
BACK DOOR ELEVATION



LEGEND

- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
- * DEVICE OR FIELD TERMINAL LOCATED REMOTE
- DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
- FIELD TERMINAL LOCATED AT CONTROL PANEL
- ▲ REMOTE TERMINAL
- DEVICE TERMINAL NO.
- ◆ PLC INTERFACE TERMINAL

NO.	DATE	REVISIONS	APP.

- NOTES TO DESIGN ENGINEER:
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- F. THE DESIGN ENGINEER SHALL REMOVE THIS SHEET AND REPLACE WITH STANDBY GENERATOR SET SHEET P0612 IF A PERMANENT STANDBY GENERATOR IS PROPOSED FOR THIS LIFT STATION.

- NOTES:
1. PROVIDE MANUAL TRANSFER SWITCH DRY CONTACT.
2. DRY/WET PIT APPLICATION ONLY.
3. ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI 
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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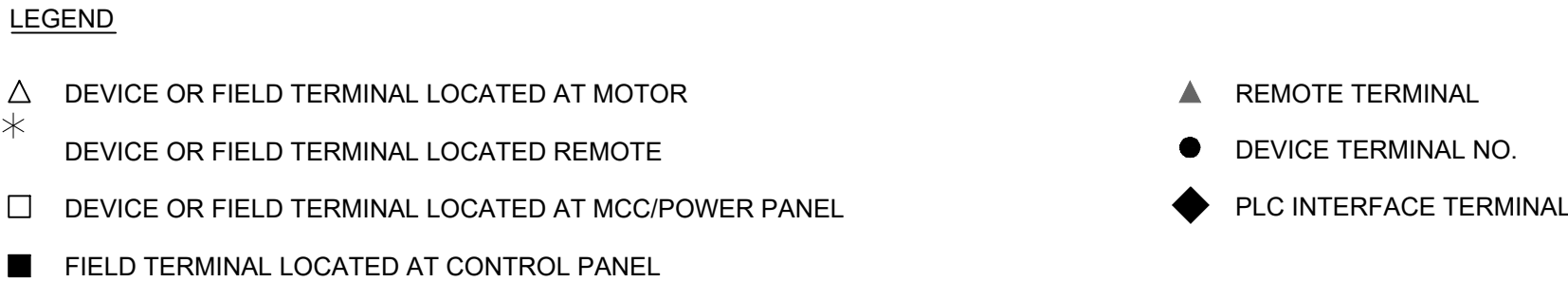
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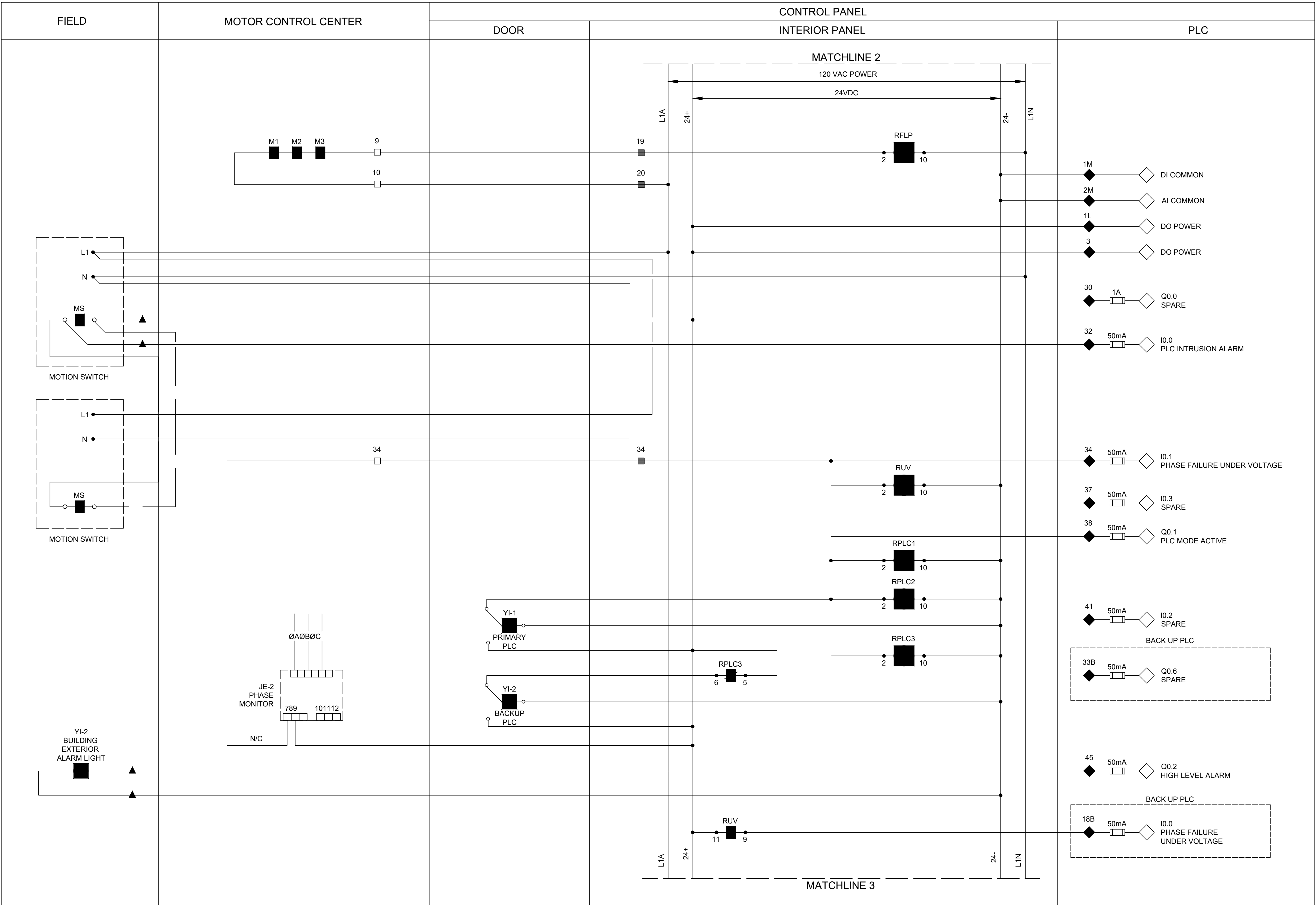
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL PANEL
CONTROL WIRING
DIAGRAM - I

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-I-06	
SHEET NO. OF XX	



WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-I-07	
SHEET NO. OF XX	




LEGEND

- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
- * DEVICE OR FIELD TERMINAL LOCATED REMOTE
- DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
- FIELD TERMINAL LOCATED AT CONTROL PANEL
- ▲ REMOTE TERMINAL
- DEVICE TERMINAL NO.
- ◆ PLC INTERFACE TERMINAL

NO.	DATE	REVISIONS	APP.

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KGI  TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
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PROJECT 4285

QUIDDITY
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6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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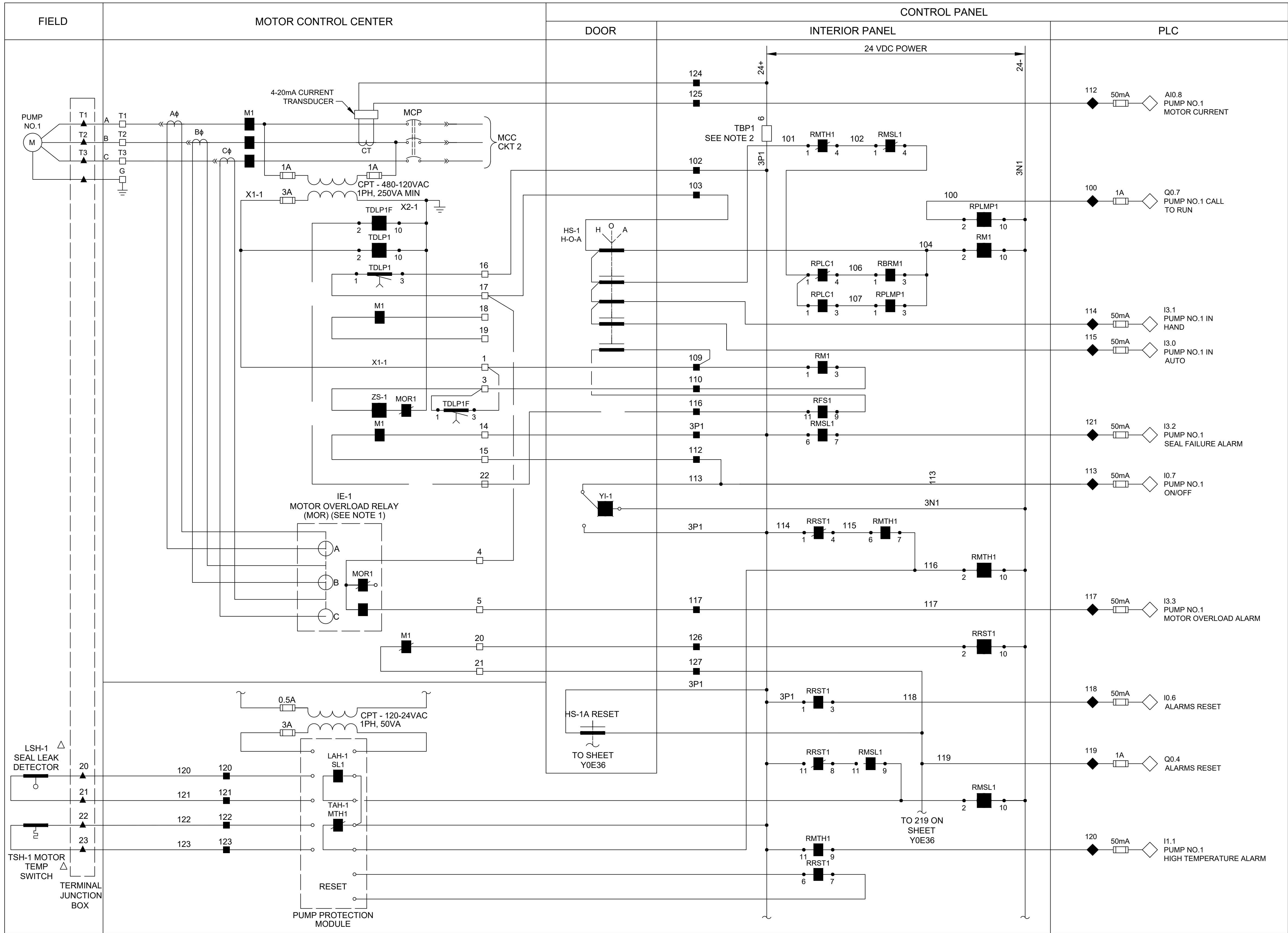
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL PANEL
CONTROL WIRING
DIAGRAM - III

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-1-08	
SHEET NO. OF XX	



- LEGEND
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
 - FIELD TERMINAL LOCATED AT CONTROL PANEL
 - ▲ REMOTE TERMINAL
 - DEVICE TERMINAL NO.
 - ◆ PLC INTERFACE TERMINAL

NOTES TO DESIGN ENGINEER:

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NOTES:

1. MOTOR OVERLOAD RELAY OUTPUT CONTACT SHOWN NORMALLY CLOSED WHEN RELAY IS DE-ENERGIZED, OPEN WHEN ENERGIZED, AND CLOSED WHEN IN ALARM. VERIFY OPERATION OF RELAY PROVIDED AND ADJUST CONNECTION OF RMOR AUXILIARY RELAYS.
2. FUSED TERMINAL ON TERMINAL BLOCK TB4 SEE CONTROL POWER AND COMMUNICATION WIRING DIAGRAM DRAWING NO. Y0E28.
3. ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI Kalluri Group, Inc. TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
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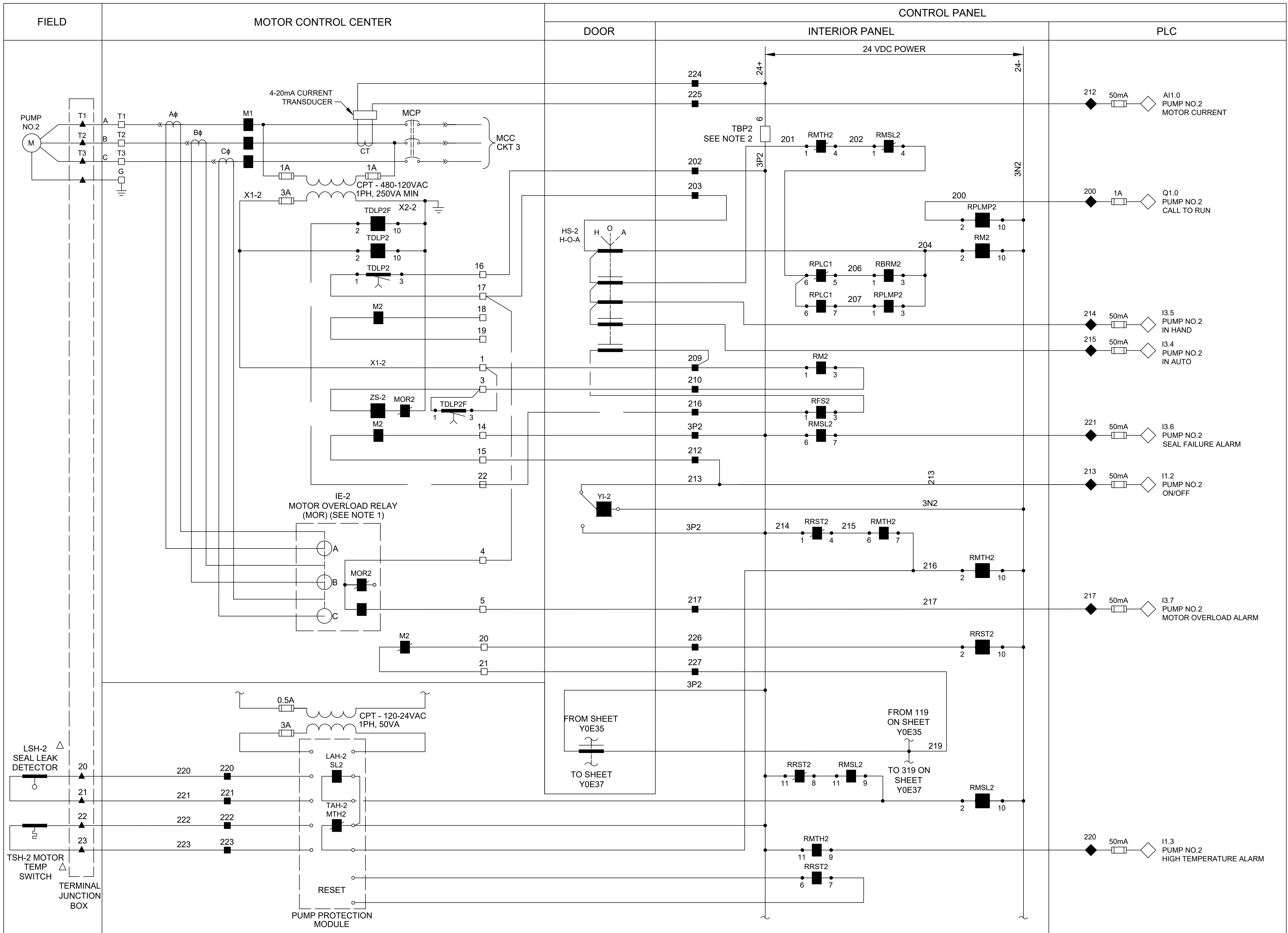
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

PUMP 1 CONTROL
WIRING DIAGRAM

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG. NO. 1-I-09	
SHEET NO. OF XX	



- LEGEND**
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
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NO.	DATE	REVISIONS	APP.

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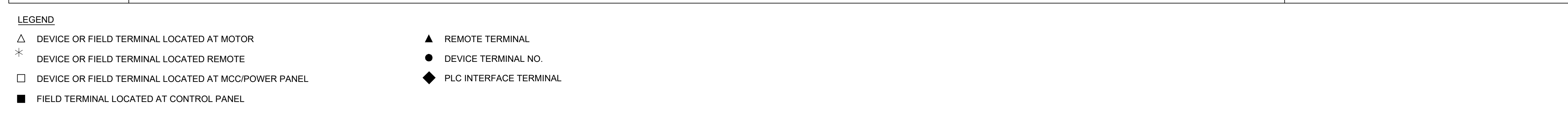
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KGI Kalluri Group, Inc.  TBPE Registration No. F-665
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CITY OF HOUSTON HOUSTON PUBLIC WORKS	
SCOTT STREET NO. 1 LIFT STATION REHABILITATION INSTRUMENTATION	
PUMP 2 CONTROL WIRING DIAGRAM	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-1-10	
SHEET NO. OF XX	



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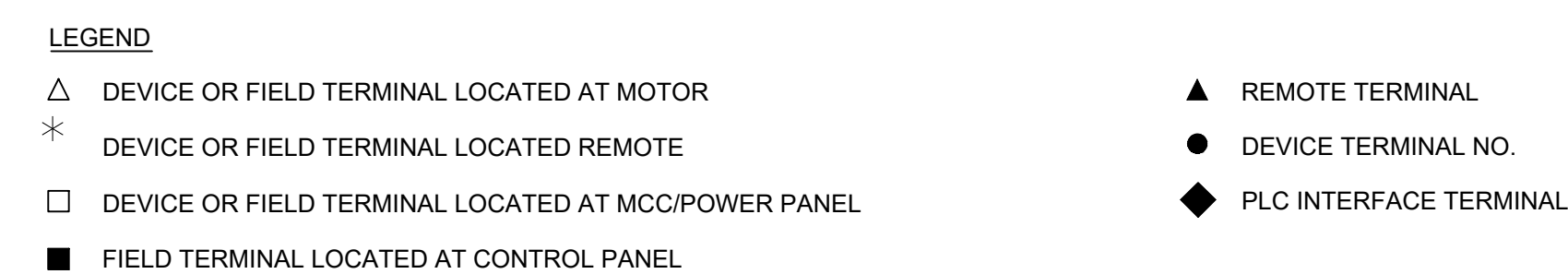
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 <p>KGI Kalluri Group, Inc.</p>		<p> TBPE Engineering & Land Surveyors Reg. No. F-32390 16300 Katy Freeway, Suite 172 Houston, Texas 77094 Phone: (713)-365-9288 PROJECT 4285 </p>	
 <p>QUIDDITY</p>		<p> Texas Board of Professional Engineers and Land Surveyors Reg. No. F-32390 6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337 </p>	
<p>JOB NO: <u>00050-0099-01</u></p>		<p>DATE: <u>1/19/2026</u></p>	
<p>APPROVED BY:</p>	<p>THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF</p> <p>STACY L. JORDAN LICENSE NO. 148233</p> <p>JANUARY 19, 2026</p> <p>IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.</p>		
<p>DATE:</p>			
<p>DESIGNED BY:</p>			
<p>DRAWN BY:</p>			
<p>SURVEYED BY:</p>			
<p>FB NO. XXXXXX</p>			

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-1-11	
SHEET NO. OF XX	



NOTES TO DESIGN ENGINEER:

A. THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.

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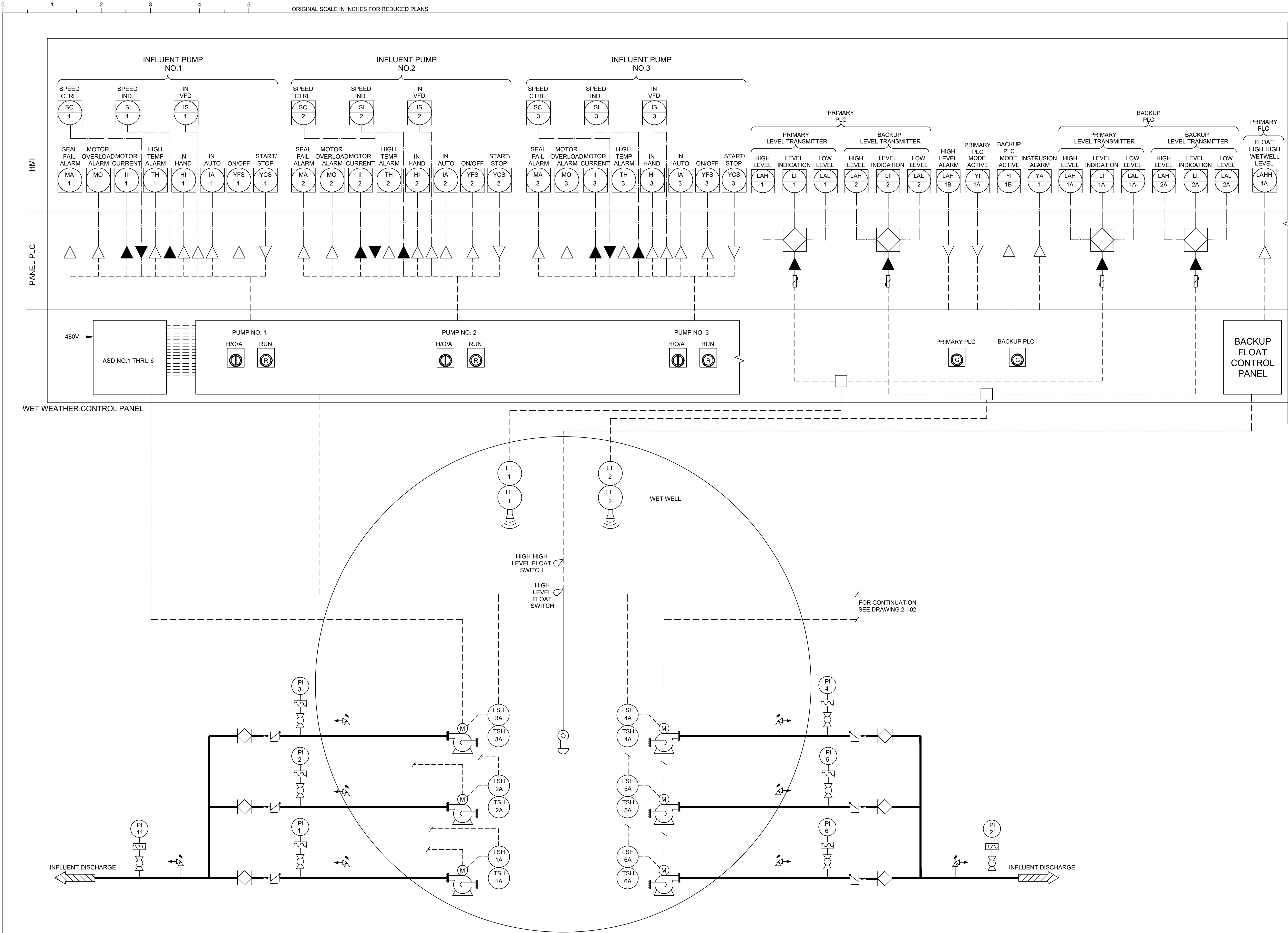
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- KGI** 
Kalluri Group, Inc.
- TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

CITY OF HOUSTON HOUSTON PUBLIC WORKS
SCOTT STREET NO. 1 LIFT STATION REHABILITATION INSTRUMENTATION PUMP 4 CONTROL WIRING DIAGRAM

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 1-I-12	
SHEET NO. OF XX	



NO.	DATE	REVISIONS	APP.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown. This signature not to be used for conflict verification.)

Signature Valid for six months.

Date:

CenterPoint Energy / UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies existing underground facilities - not to be used for conflict verification.)

Signature Valid for six months.

Date:

Approved for AT&T Texas / SWBT underground conduit facilities only. Signature valid for one year.

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QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

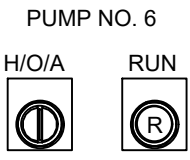
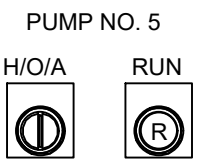
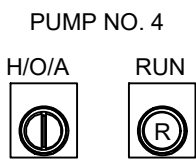
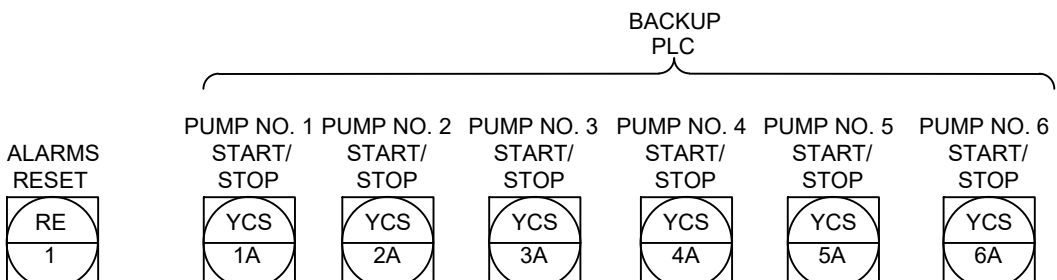
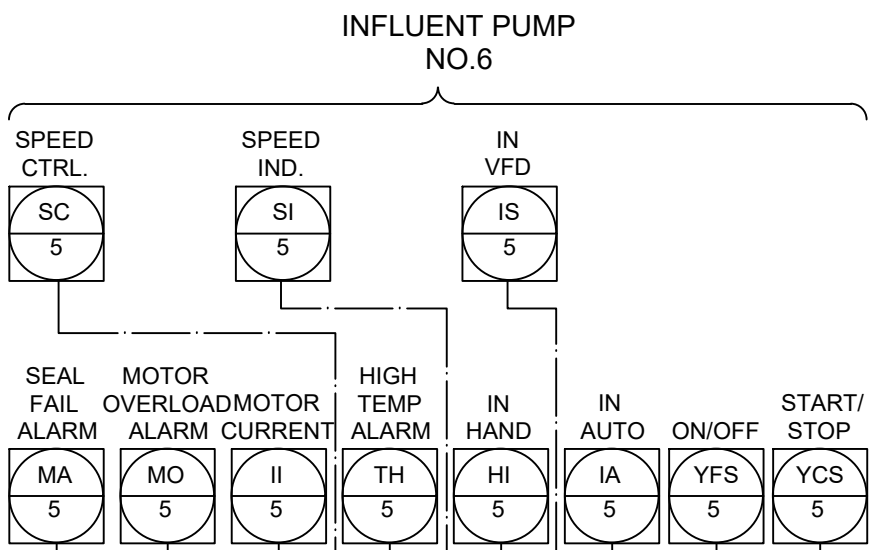
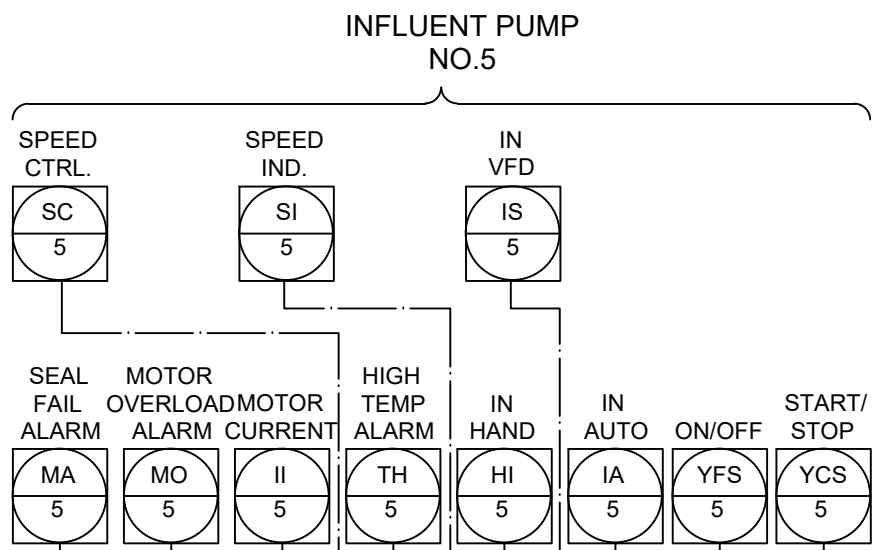
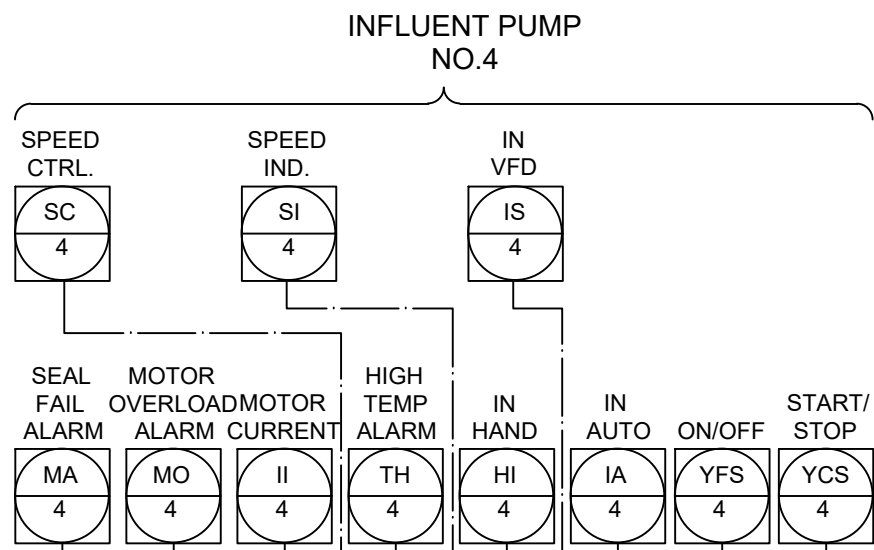
SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

WET WEATHER STATION
P&ID SHEET 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-1-01	
SHEET NO. OF XX	

HMI

CONTROL
PANEL PLC



CONTINUATION OF WET WEATHER CONTROL PANEL

CONTINUATION FROM
DRAWING 2-I-1

NO.	DATE	REVISIONS	APP.

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VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy natural gas utilities shown.
(Gas service lines are not shown. This signature not to be used for conflict verification.)
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Approved for AT&T Texas® / SWBT underground conduit facilities only.
Signature valid for one year.

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1

LIFT STATION REHABILITATION

INSTRUMENTATION

WET WEATHER STATION

P&ID SHEET 2

WBS NUMBER

R-000267-127A-4

DRAWING SCALE

AS NOTED

CITY OF HOUSTON PM

TAHA LOTIA

DWG NO. 2-I-02

SHEET NO. OF XX

FOR CITY OF HOUSTON USE ONLY

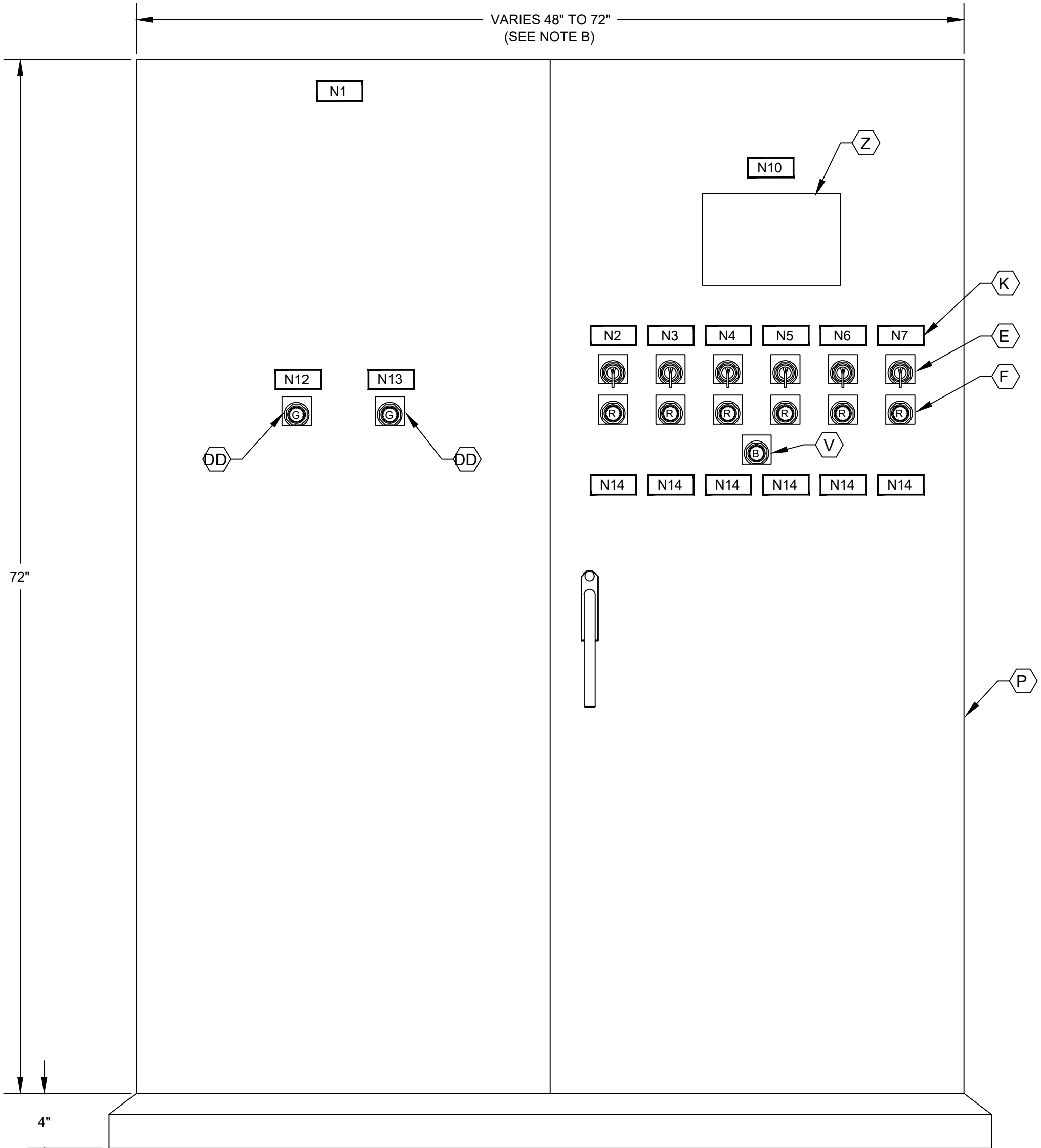
NO.	DATE	REVISIONS	APP.

EQUIPMENT AND DEVICE SCHEDULE		
ITEM	QUANTITY	DESCRIPTION
A	1	SINGLE CHANNEL INTRINSICALLY SAFE RELAY
B	2	ANALOG SIGNAL ISOLATOR
C	6	PUMP PROTECTION MODULE
D	*	NOT USED
E	6	HAND-OFF-AUTO SWITCH, 3 POSITION, HEAVY-DUTY OIL TIGHT WITH 2 SETS OF CONTACT BLOCKS (PUMP CONTROL)
F	6	INDICATING LIGHT, HEAVY DUTY, OILTIGHT, RED, 24 VDC, LED, WITH "RUN" LEGEND
G	*	NOT USED.
H	1	SWITCH FOR CABINET LIGHT, 120V, 20A, SPST
I	2	DUPLEX RECEPTACLE, 120V, 20A, 2 WIRE, GROUND, GFCI TYPE
J	1	24" LED STRIP LIGHT 120V SUITABLE FOR ZERO DEGREE OPERATION.
K	*	NAMEPLATES, SEE SPECIFICATIONS (SEE NAMEPLATE SCHEDULE)
L	2	PROGRAMMABLE LOGIC CONTROLLER WITH EXPANSION UNIT
M	*	CONTROL RELAY 24VDC RELAY WITH THREE FORM C CONTACTS AND 11 PIN SOCKET BASE
N	-	NOT USED
O	-	NOT USED
P	1	NEMA 12 GASKETED STEEL ENCLOSURES WITHOUT VENTS 72" H X 20" D X WIDTH AS REQUIRED
Q	*	TERMINAL BLOCK
R	1	WIRE DUCT 2" WIDE X 2" DEEP MINIMUM
S	1	GROUND BUS
T	1	COMMUNICATION ETHERNET SWITCH
U	9	CARTRIDGE
V	1	PUSHBUTTON, BLACK WITH RESET LEGEND
W	-	NOT USED
X	*	FUSED TERMINAL BLOCKS
Y	1	POWER SURGE PROTECTOR - CONTROL POWER
Z	1	PROGRAMMING SCREEN (OIT)
AA	*	120VAC SYSTEM FUSES
BB	1	120VAC - 24VDC POWER SUPPLY, 5A
CC	*	NOT USED
DD	2	INDICATING LIGHT, HEAVY DUTY, OILTIGHT, GREEN, 24VDC, LED WITH "BACKUP PLC" & "PRIMARY PLC" LEGEND
EE	2	ANALOG I/O SURGE SUPPRESSOR
FF	-	NOT USED

* - AS SCHEDULED

NAMEPLATE SCHEDULE

DESIGNATION	ENGRAVED	DESIGNATION	ENGRAVED
N1	PUMP STATION DESIGNATION	N8	NOT USED.
N2	PUMP NO. 1	N9	NOT USED.
N3	PUMP NO. 2	N10	PROGRAMMING SCREEN
N4	PUMP NO. 3	N11	NOT USED.
N5	PUMP NO. 4	N12	PRIMARY PLC
N6	PUMP NO. 5	N13	BACKUP PLC
N7	PUMP NO. 6	N14	MOTOR DATA
			HORSEPOWER (OUTPUT)
			RPM AT FULL LOAD
			TIME RATING
			FREQUENCY
			NUMBER OF PHASES
			MODEL NUMBER
			RATED VOLTAGE
			SERVICE FACTOR
			FULL LOAD AMPS
			INSULATION CLAS
			NEMA DESIGN LETTER
			TEMPERATURE RISE
			NEMA FRAME SIZE
			DATE OF MANUFACTURE
			THERMO PROTECTION (IF REQUIRED) --
			MOISTURE PROTECTION (IF REQUIRED)-



CONTROL CABINET
FRONT DOOR ELEVATION

NOTES TO DESIGN ENGINEER:

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NOTES:

1. NAMEPLATES SHALL BE MOUNTED TO PANELS USING STAINLESS STEEL HARDWARE.
2. REFER SPECIFICATIONS FOR ALL PANEL COMPONENTS.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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DRAWN BY: _____

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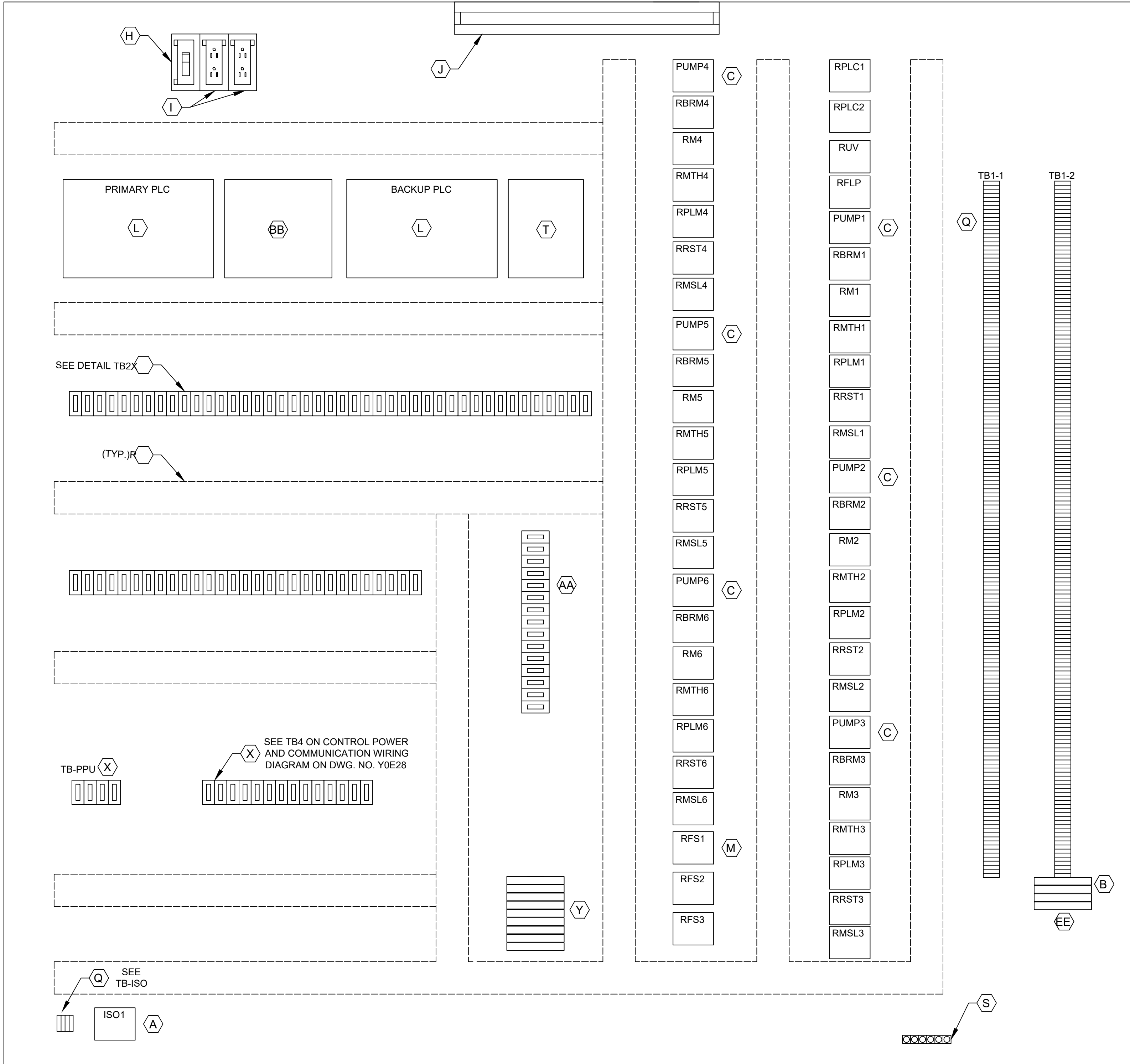
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL CABINET
EQUIPMENT LAYOUT &
SCHEDULE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	DWG NO. 2-I-03
SHEET NO.	
OF XX	



CONTROL PANEL
ELEVATION

1500
1501
1503
1504

DETAIL
TB-ISO

1500
1501
1503
1504

DETAIL
TB1-1

1500
1501
1503
1504

DETAIL
TB1-2

1500
1501
1503
1504

DETAIL
TB1-2

1500
1501
1503
1504

DETAIL
TB2

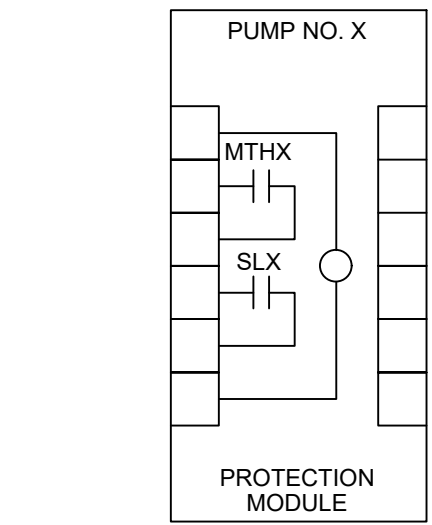
1500
1501
1503
1504

DETAIL
TB2

1500
1501
1503
1504

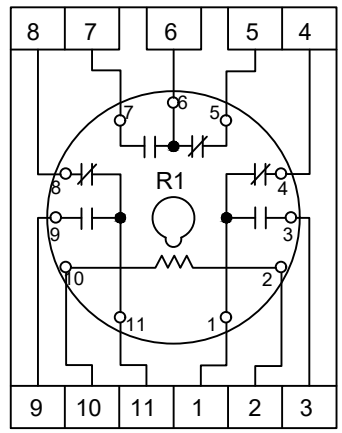
DETAIL
TB2

LEGEND	
TAG	DESCRIPTION
RMTH	MOTOR HIGH TEMPERATURE ALARM RELAY
RPLMP	PLC PUMP RUN RELAY
RRST	PUMP RESET AUX RELAY
RPLC	PLC MODE AUX RELAY
RM	PUMP RUN AUX RELAY
RUV	UNDER VOLTAGE RELAY
RBRM	BACKUP SYSTEM RUN RELAY
ISO	INTRINSICALLY SAFE RELAY
RFS	PUMP RUN FLOAT SWITCH RELAY
RMSL	MOTOR SEAL LEAK ALARM RELAY
RFLP	FLOAT LOCKOUT PUMP RELAY



PUMP PROTECTION MODULE
DETAIL, ITEM C

NOTE: REPLACE "X" WITH
APPROPRIATE PUMP NO.



RELAY DETAIL
ITEM M

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NOTES:

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PROJECT 4285

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION

CONTROL CABINET
EQUIPMENT LAYOUT

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG. NO. 2-I-04	
SHEET NO. OF XX	

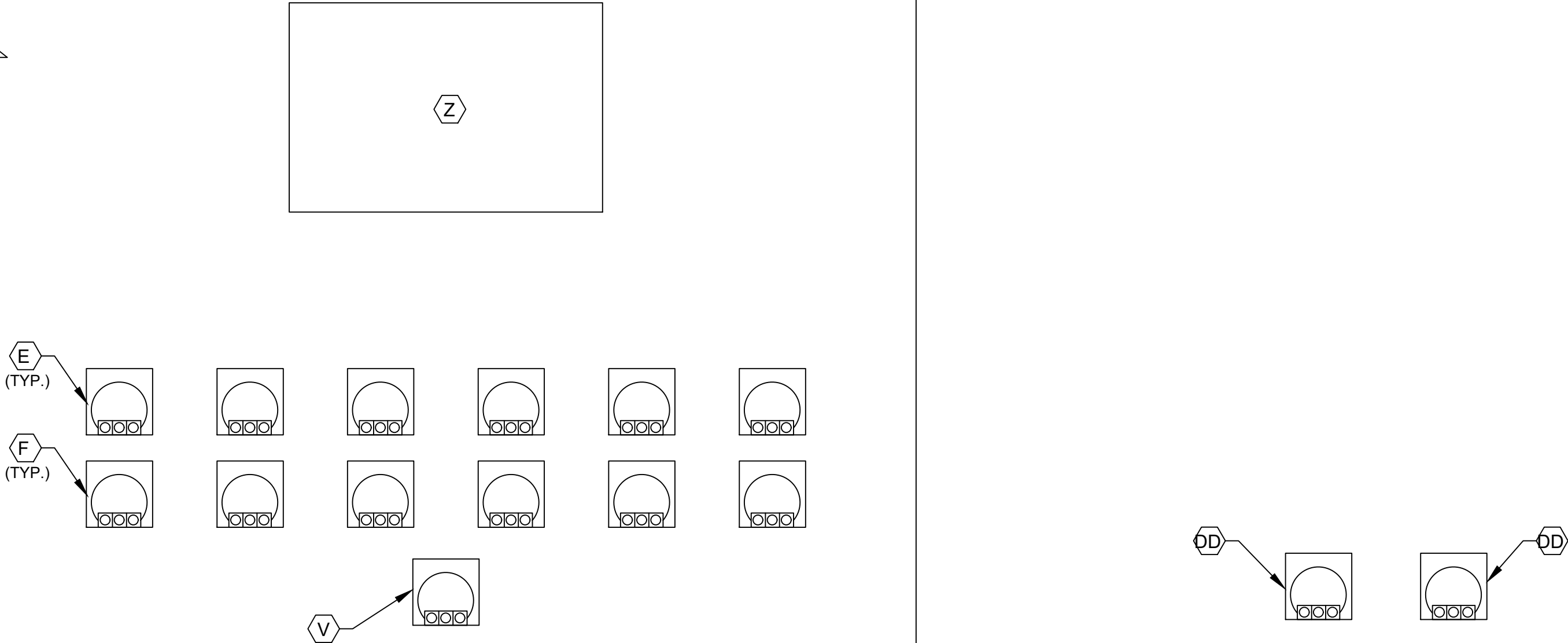
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NOTES:

1. SEE SHEET Y0E21 FOR EQUIPMENT SCHEDULE.



CONTROL CABINET
BACK DOOR ELEVATION

KGI
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16300 Katy Freeway, Suite 172
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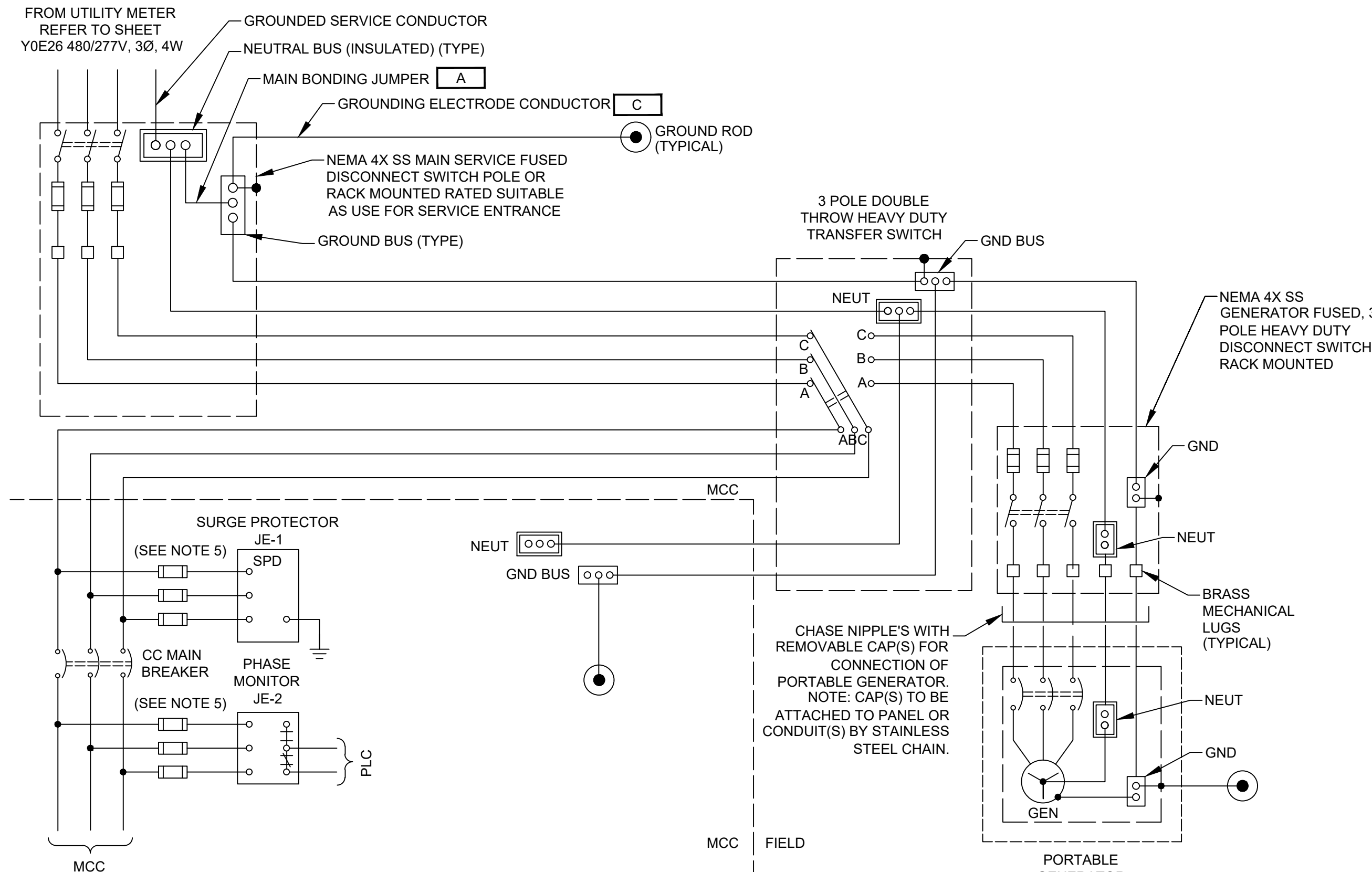
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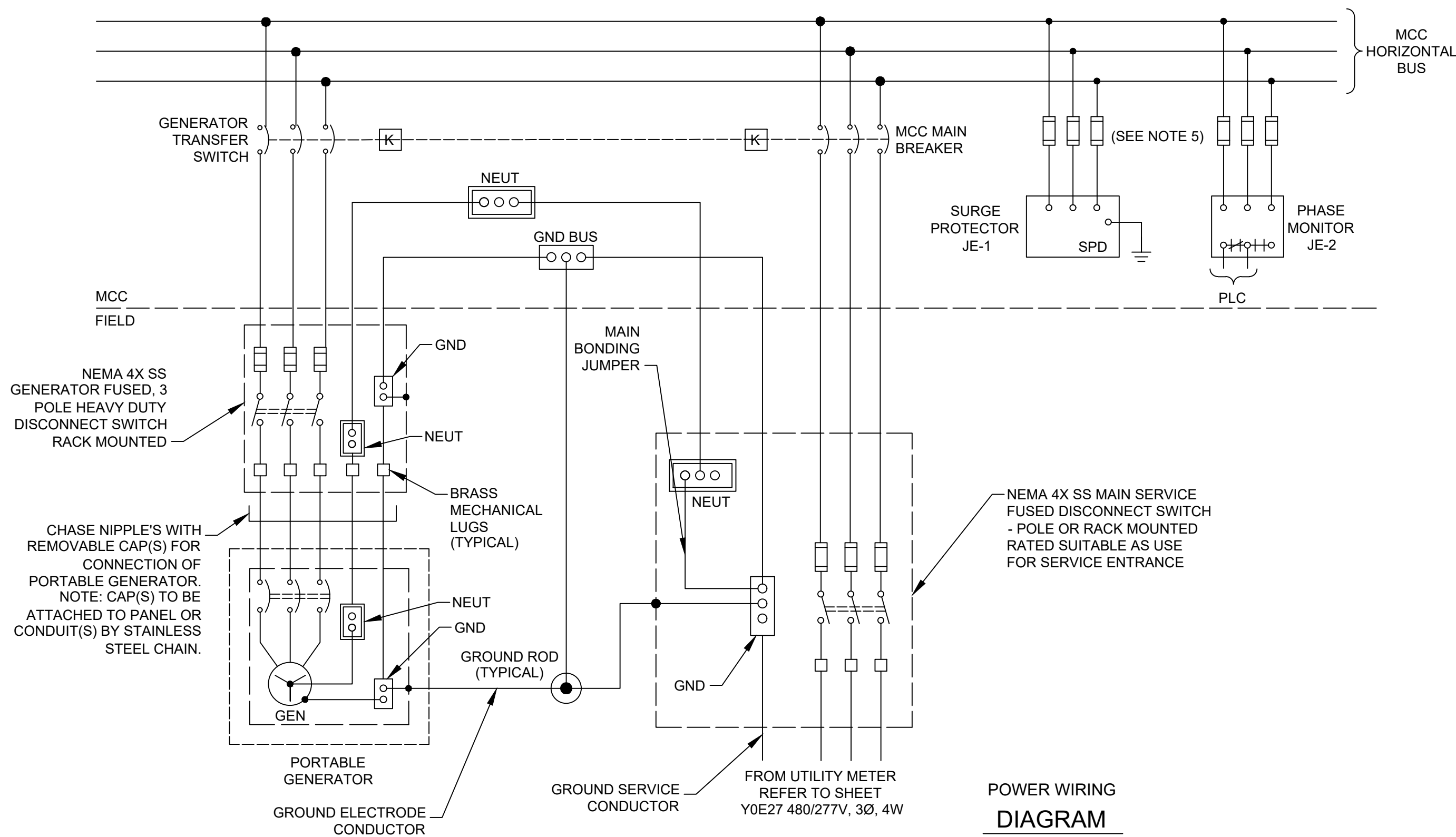
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CONTROL CABINET
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SHEET NO. OF XX	



POWER WIRING
DIAGRAM
NTS
(SEE NOTE 3)



POWER WIRING
DIAGRAM
NTS
(SEE NOTE 4)

NOTES TO DESIGN ENGINEER:

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- IT IS THE RESPONSIBILITY OF THE CONTRACTED DESIGN ENGINEER TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION HEREIN CONTAINED AND TO ADJUST ACCORDING TO PROJECT SPECIFIC REQUIREMENTS.
- UNLESS OTHERWISE INDICATED, ALL DEVICES WITHOUT FURTHER DESIGNATION ARE LOCATED AT THE MOTOR CONTROL CENTER (MCC).
- THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.
- THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.
- THE DESIGN ENGINEER SHALL REMOVE THESE NOTES, ALL REFERENCES TO THESE NOTES, AND ANY OTHER EXTRANEOUS INFORMATION FROM THE DESIGN GUIDELINE DRAWINGS. DESIGN ENGINEER SHALL PROVIDE ANY NOTES OR OTHER APPROPRIATE INFORMATION NECESSARY TO COMPLETE THE LIFT STATION DESIGN.
- THE DESIGN ENGINEER SHALL REMOVE THIS SHEET AND REPLACE WITH STANDBY GENERATOR SET SHEET P0G05 OR P0G06 IF A PERMANENT STANDBY GENERATOR IS PROPOSED FOR THIS LIFT STATION.

NOTES:

- UNLESS OTHERWISE INDICATED, ALL DEVICES WITHOUT FURTHER DESIGNATION ARE LOCATED AT THE MOTOR CONTROL CENTER (MCC).
- REFER TO SPEC SECTION 16120 LOW-VOLTAGE WIRES AND CABLES FOR CONDUCTOR COLOR CODE.
- REFER TO Y0E26.
- REFER TO Y0E27.
- PROVIDE FUSE SIZE ACCORDING TO MANUFACTURER'S REQUIREMENTS.

NO.	DATE	REVISIONS	APP.

KGI  TBPE Registration No. F-665
Kalluri Group, Inc. 16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

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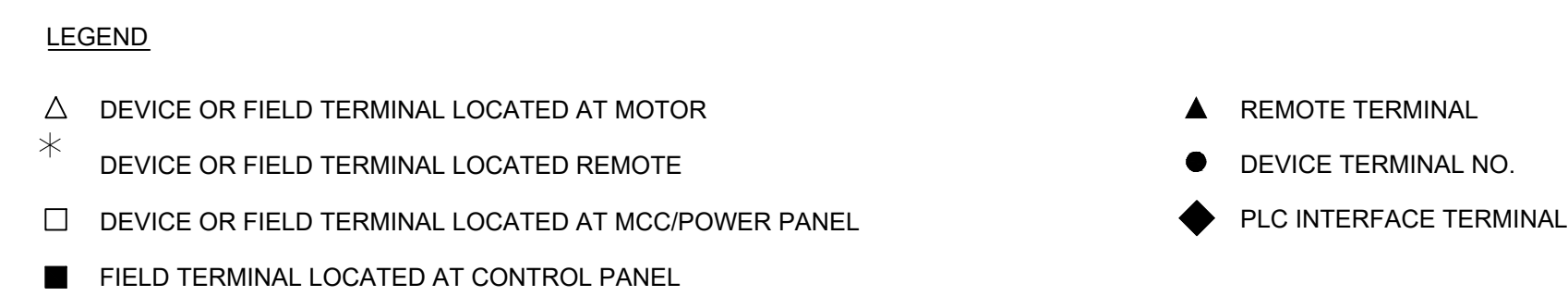
JOB NO: 00050-0099-01 DATE: 1/19/2026

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DRAWN BY:	
SURVEYED BY:	
FB NO. XXXXXX	

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL INCOMING
POWER THREE LINE
DIAGRAM**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-06	
SHEET NO. OF XX	



NOTES TO DESIGN ENGINEER:

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IT IS THE RESPONSIBILITY OF THE CONTRACTED DESIGN ENGINEER TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION HEREIN CONTAINED AND TO ADJUST ACCORDING TO PROJECT SPECIFIC REQUIREMENTS.

B. THE DESIGN ENGINEER SHALL DELETE TERMINAL DESIGNATION AND INTERCONNECTING WIRING BETWEEN PANELS WHEN BOTH PANELS ARE HOUSED IN A COMMON, FACTORY PRE-WIRED ENCLOSURE.

C. THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.

D. THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.

E. THE DESIGN ENGINEER SHALL REMOVE THESE NOTES, ALL REFERENCES TO THESE NOTES, AND ANY OTHER EXTRANEOUS INFORMATION FROM THE DESIGN GUIDELINE DRAWINGS.

F. DESIGN ENGINEER SHALL PROVIDE ANY NOTES OR OTHER APPROPRIATE INFORMATION NECESSARY TO COMPLETE THE LIFT STATION DESIGN.

G. THE DESIGN ENGINEER SHALL REMOVE THIS SHEET AND REPLACE WITH STANDBY GENERATOR SET SHEET PG012 IF A PERMANENT STANDBY GENERATOR IS PROPOSED FOR THIS LIFT STATION.

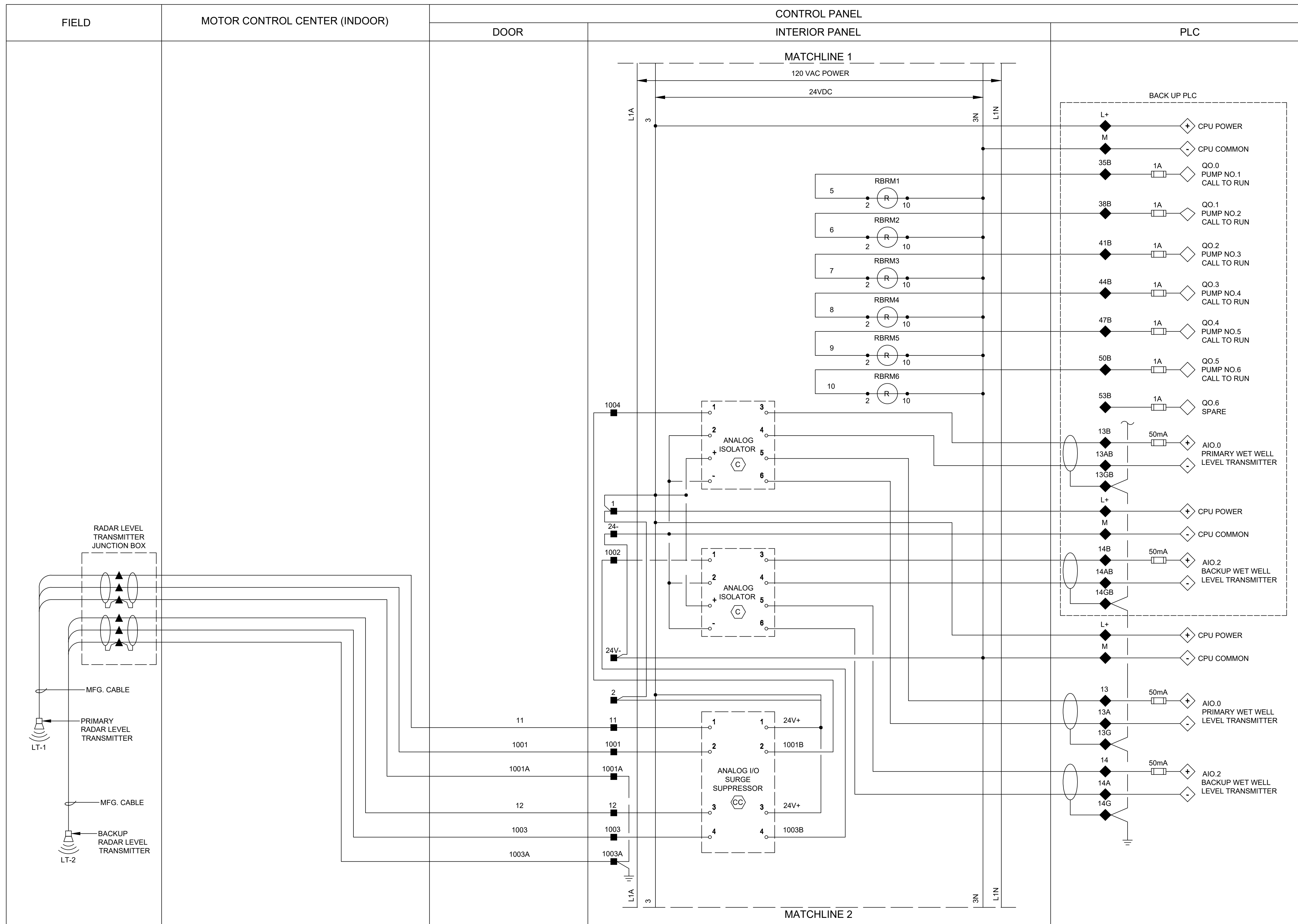
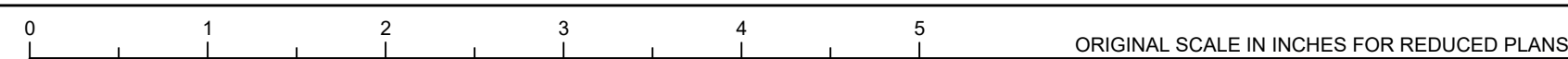
KGI 
Kalluri Group, Inc.

16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288

PROJECT 4285

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-1-07	
SHEET NO. OF XX	



- LEGEND

△ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR

✱ DEVICE OR FIELD TERMINAL LOCATED REMOTE

☐ DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL

■ FIELD TERMINAL LOCATED AT CONTROL PANEL

▲ REMOTE TERMINAL

● DEVICE TERMINAL NO.

◆ PLC INTERFACE TERMINAL

NOTES TO DESIGN ENGINEER:

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IT IS THE RESPONSIBILITY OF THE CONTRACTED
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INFORMATION HEREIN CONTAINED AND TO
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REQUIREMENTS.

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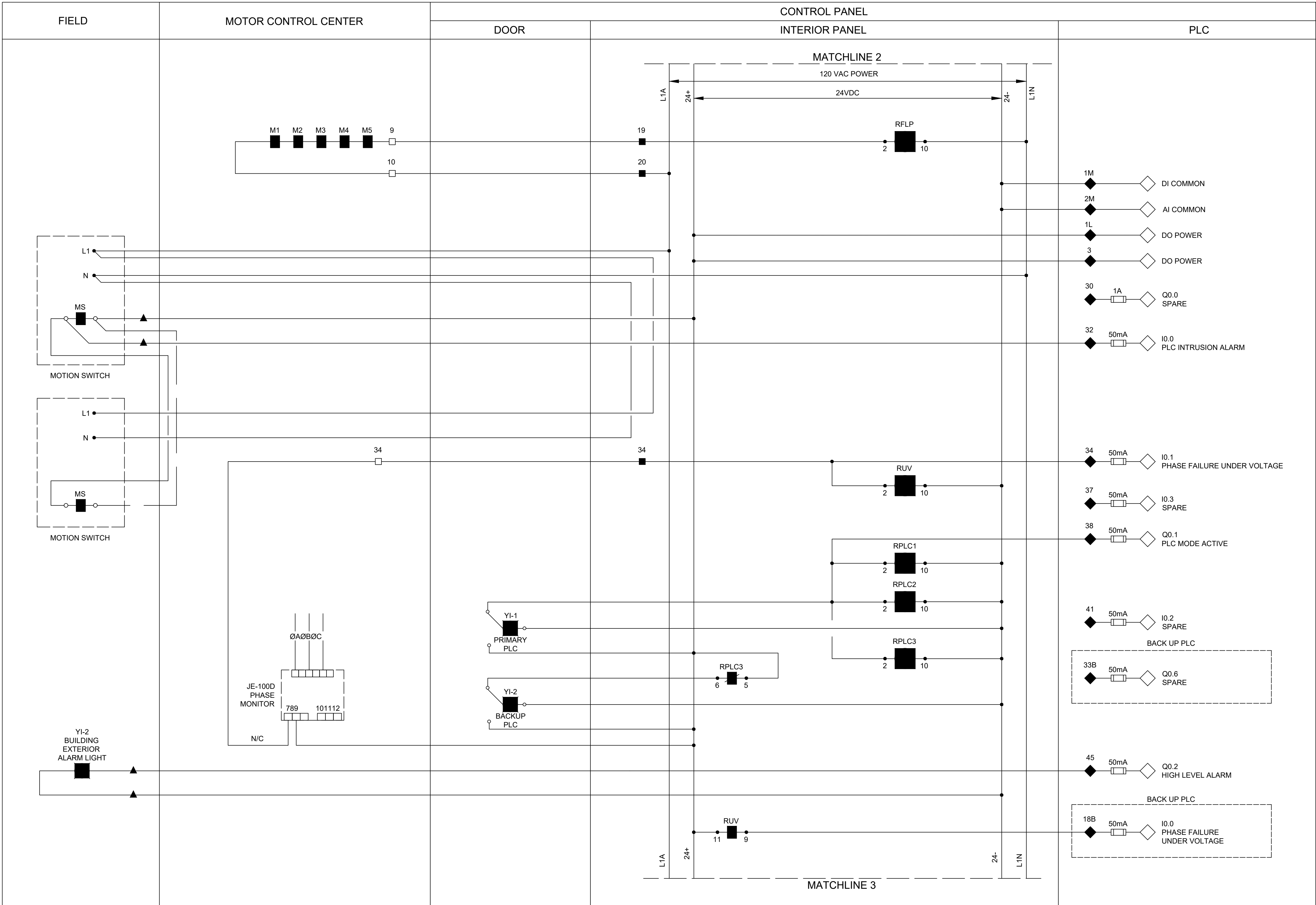
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 Kalluri Group, Inc.	TBPE Registration No. F-665 16300 Katy Freeway, Suite 172 Houston, Texas 77094 Phone: (713)-365-9288 PROJECT 4285
	
Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 6330 West Loop South, Suite 150 • Bellaire, TX 77601 • 713.777.5337	
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL PANEL
CONTROL WIRING
DIAGRAM - II

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-08	
SHEET NO. OF XX	



LEGEND

- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
* DEVICE OR FIELD TERMINAL LOCATED REMOTE
□ DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
■ FIELD TERMINAL LOCATED AT CONTROL PANEL
- ▲ REMOTE TERMINAL
● DEVICE TERMINAL NO.
◆ PLC INTERFACE TERMINAL

NO.	DATE	REVISIONS	APP.

NOTES TO DESIGN ENGINEER:

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D. THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.

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KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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DATE:

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SURVEYED BY:

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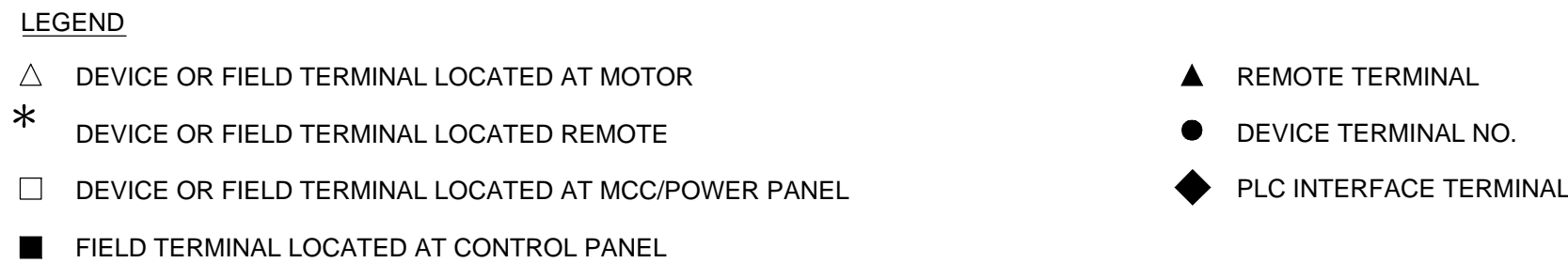
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION
CONTROL PANEL
CONTROL WIRING
DIAGRAM - III

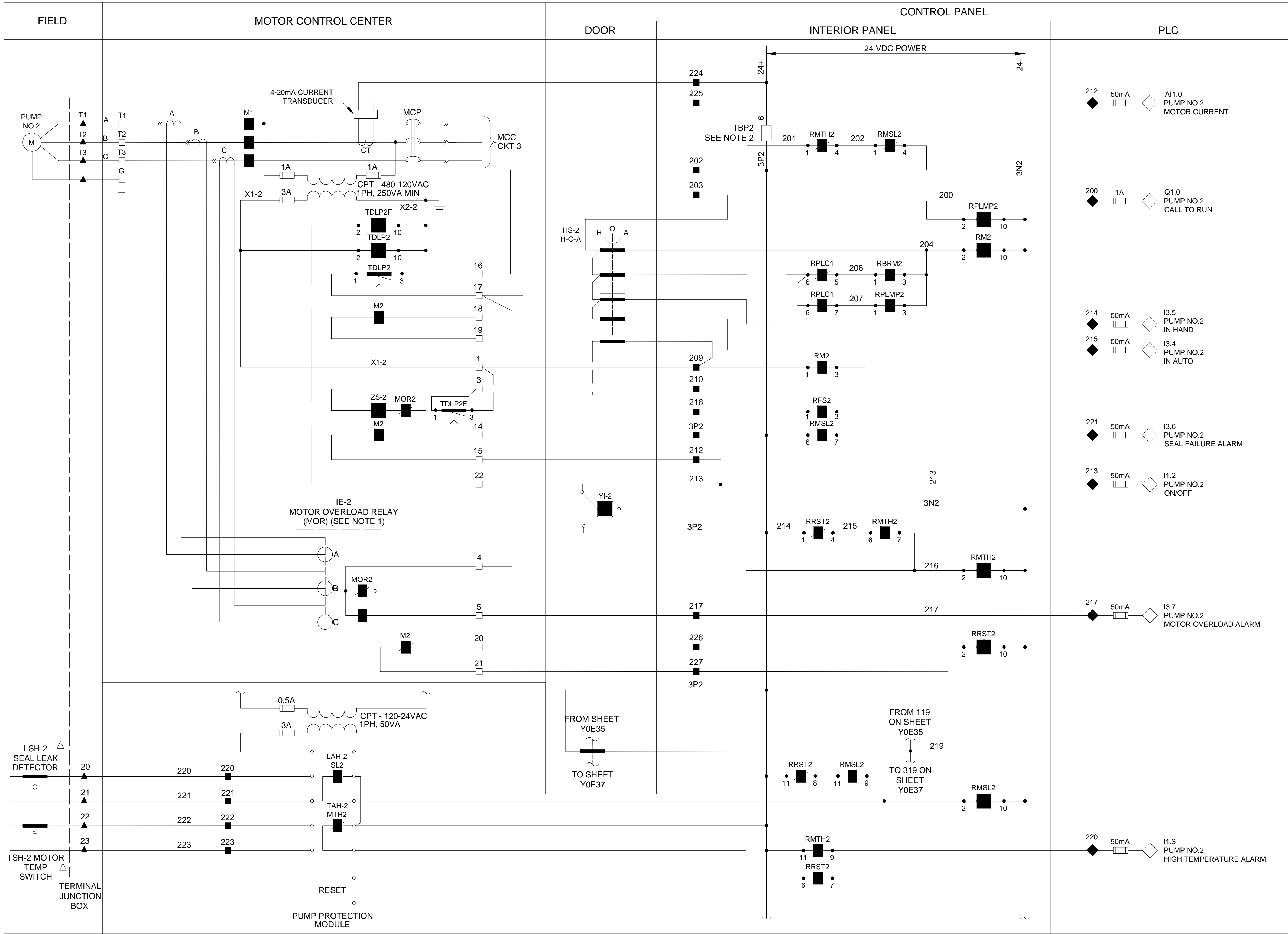
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-09	
SHEET NO. OF XX	



NOTES:

1. MOTOR OVERLOAD RELAY OUTPUT CONTACT SHOWN NORMALLY CLOSED WHEN RELAY IS DE-ENERGIZED, OPEN WHEN ENERGIZED, AND CLOSED WHEN IN ALARM. VERIFY OPERATION OF RELAY PROVIDED AND ADJUST CONNECTION OF RMOR AUXILIARY RELAYS.
2. FUSED TERMINAL ON TERMINAL BLOCK T84 SEE CONTROL POWER AND COMMUNICATION WIRING DIAGRAM DRAWING NO. Y0E28.
3. ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-10	
SHEET NO. OF XX	



LEGEND

- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
- * DEVICE OR FIELD TERMINAL LOCATED REMOTE
- DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
- FIELD TERMINAL LOCATED AT CONTROL PANEL
- ▲ REMOTE TERMINAL
- DEVICE TERMINAL NO.
- ◆ PLC INTERFACE TERMINAL

NOTES TO DESIGN ENGINEER:

- A. THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.
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2. FUSED TERMINAL ON TERMINAL BLOCK TB4 SEE CONTROL POWER AND COMMUNICATION WIRING DIAGRAM DRAWING NO. Y0E28.
3. ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

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DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION**

**PUMP 2 CONTROL
WIRING DIAGRAM**

WBS NUMBER

R-000267-127A-4

DRAWING SCALE

AS NOTED

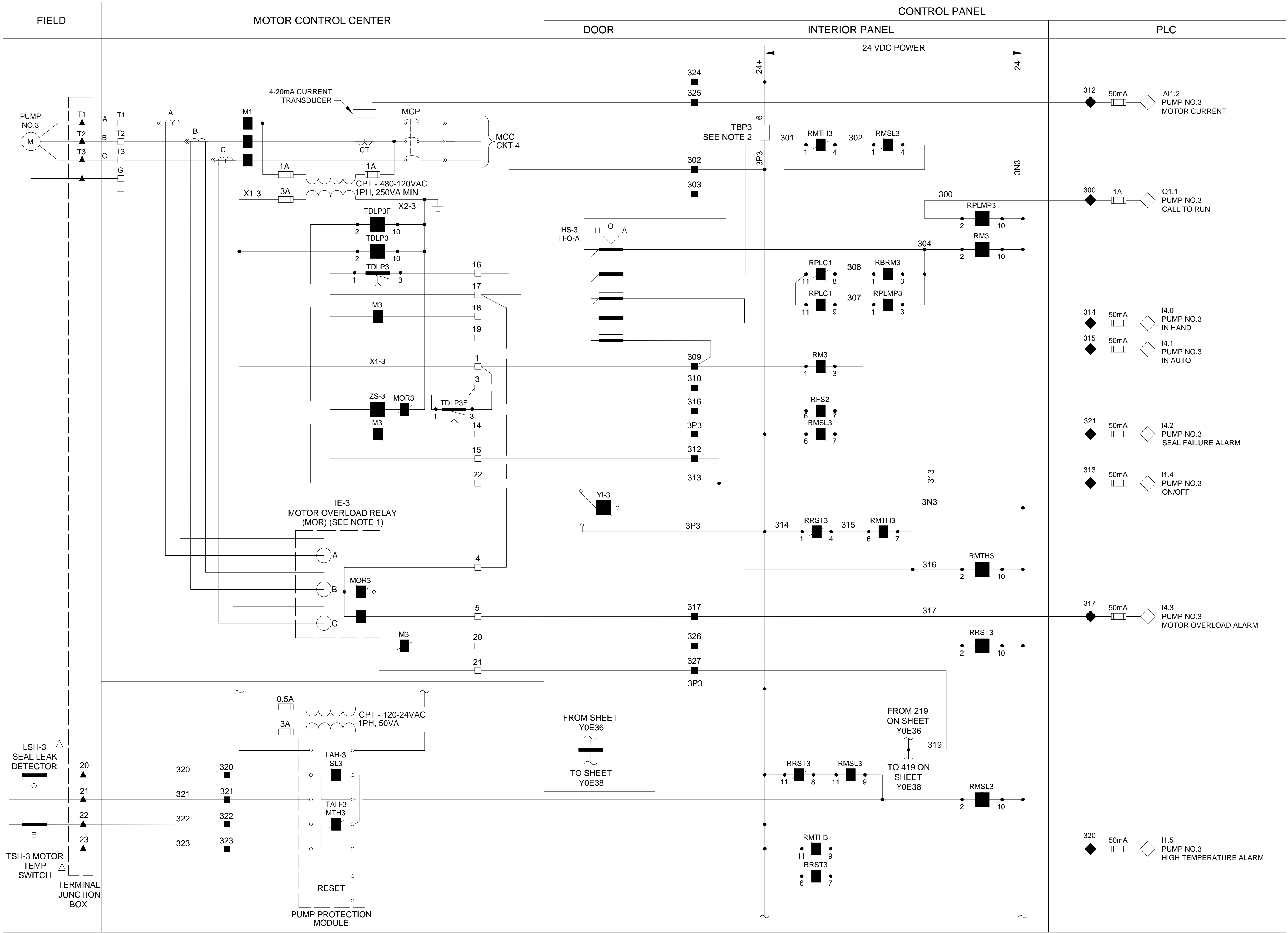
CITY OF HOUSTON PM

TAHA LOTIA

DWG NO. 2-1-11

SHEET NO. OF XX

FOR CITY OF HOUSTON USE ONLY



- LEGEND
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
- * DEVICE OR FIELD TERMINAL LOCATED REMOTE
- DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
- FIELD TERMINAL LOCATED AT CONTROL PANEL
- ▲ REMOTE TERMINAL
- DEVICE TERMINAL NO.
- ◆ PLC INTERFACE TERMINAL

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2. FUSED TERMINAL ON TERMINAL BLOCK TB4 SEE CONTROL POWER AND COMMUNICATION WIRING DIAGRAM DRAWING NO. Y0E28.
3. ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI Kalluri Group, Inc.

TBPE Registration No. F-665
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JOB NO: 00050-0099-01 DATE: 1/19/2026

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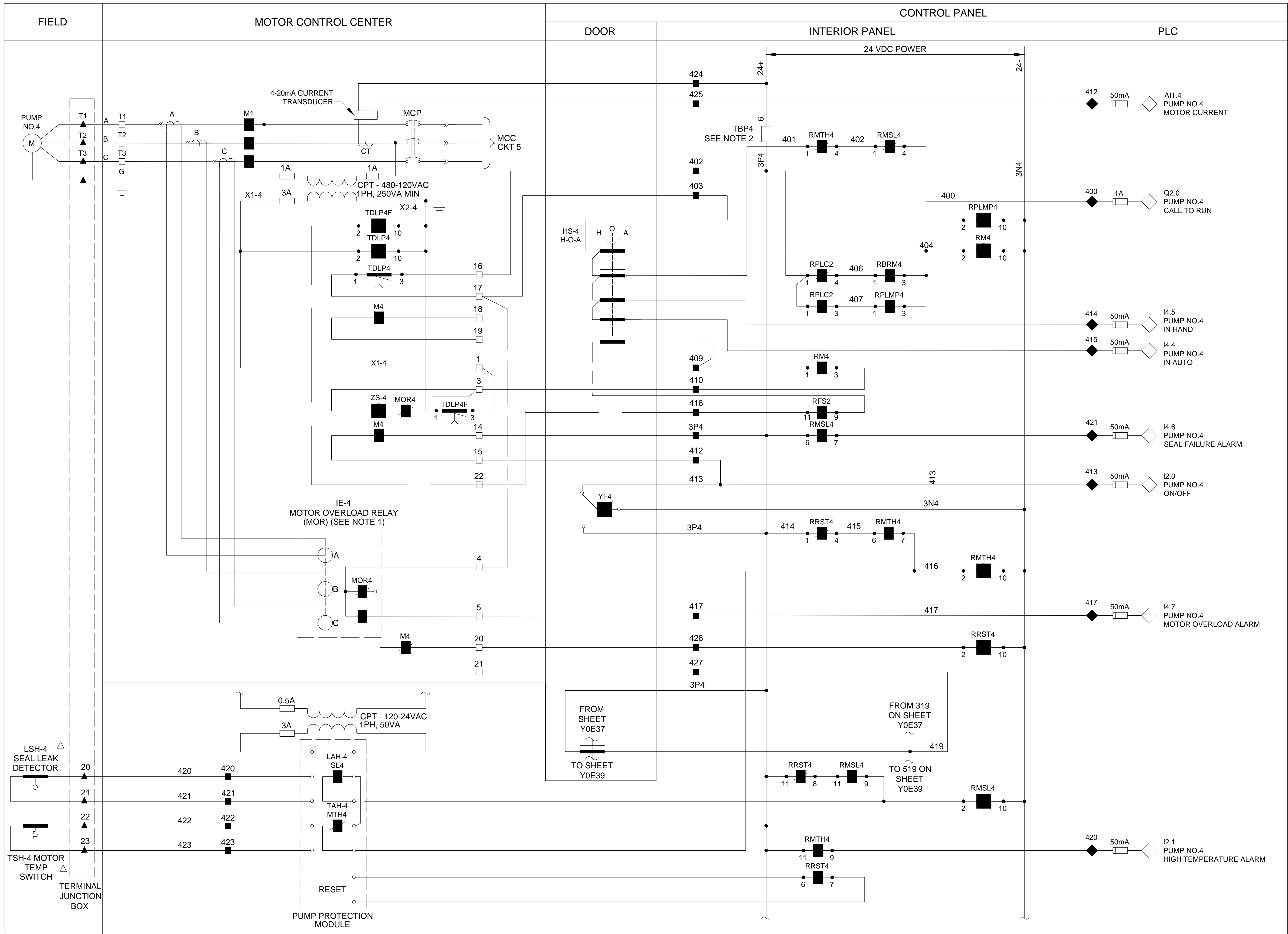
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION**

**PUMP 3 CONTROL
WIRING DIAGRAM**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-12	
SHEET NO. OF XX	



- LEGEND
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
 - FIELD TERMINAL LOCATED AT CONTROL PANEL
 - ▲ REMOTE TERMINAL
 - DEVICE TERMINAL NO.
 - ◆ PLC INTERFACE TERMINAL

NO.	DATE	REVISIONS	APP.

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- ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

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JOB NO: 00050-0099-01 DATE: 1/19/2026

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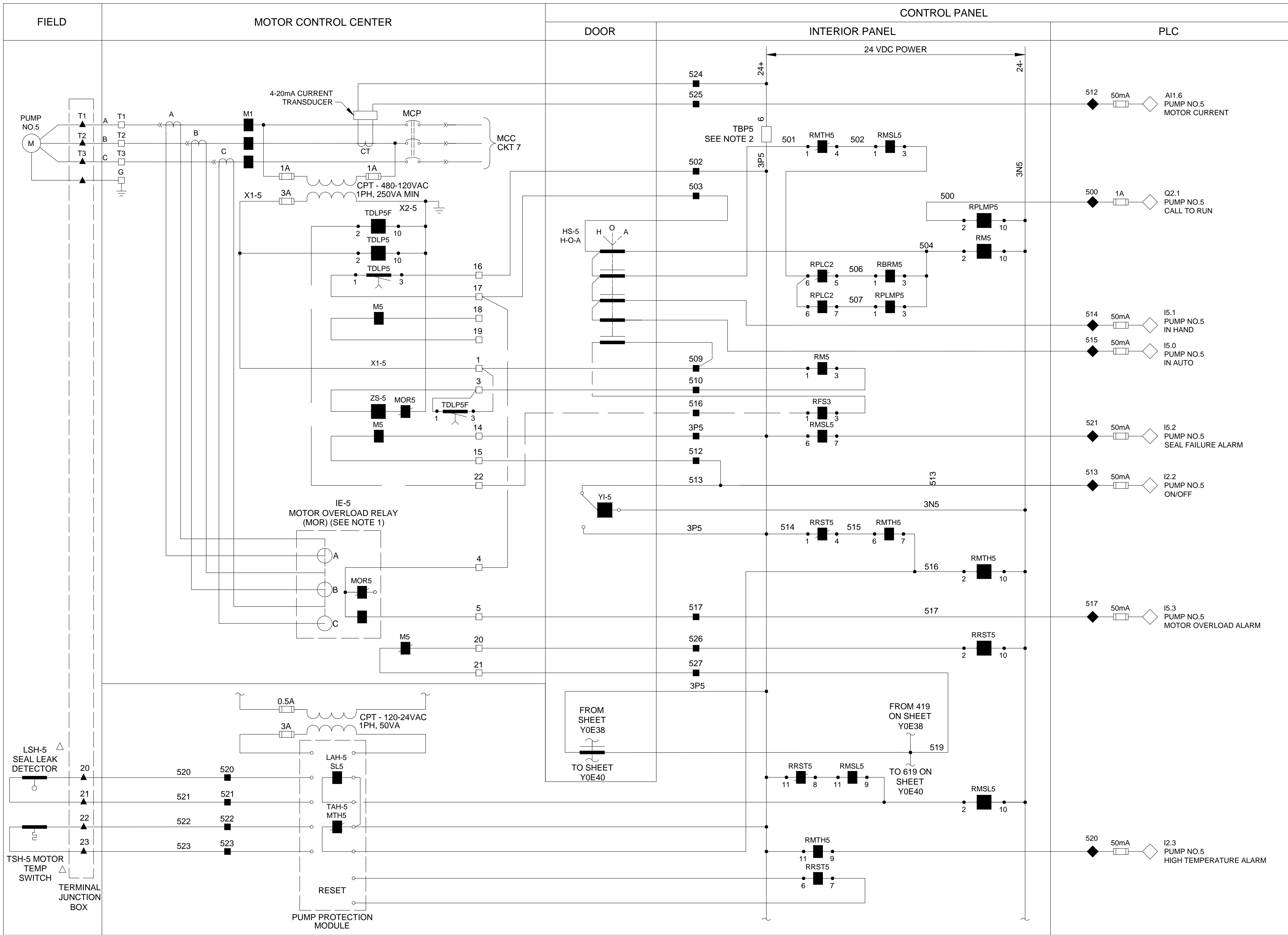
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION**

**PUMP 4 CONTROL
WIRING DIAGRAM**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-I-13	
SHEET NO. OF XX	



- LEGEND**
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
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- THE DESIGN ENGINEER SHALL INCORPORATE ONLY THE NECESSARY STANDARD GUIDELINE DRAWINGS AND DETAILS INTO HIS PROJECT CONTRACT DOCUMENTATION PACKAGE, AND SHALL ADJUST PAGE NUMBERS AND CROSS REFERENCING ACCORDINGLY.
- THE DESIGN ENGINEER SHALL CONSULT THE ENGINEERING DESIGN MANUAL FOR WASTEWATER SUBMERSIBLE LIFT STATIONS AND MASTER CONSTRUCTION SPECIFICATIONS FOR MORE INFORMATION PERTINENT TO THESE STANDARD DESIGN GUIDELINES DRAWINGS.
- THE DESIGN ENGINEER SHALL REMOVE THESE NOTES, ALL REFERENCES TO THESE NOTES, AND ANY OTHER EXTRANEIOUS INFORMATION FROM THE DESIGN GUIDELINE DRAWINGS. DESIGN ENGINEER SHALL PROVIDE ANY NOTES OR OTHER APPROPRIATE INFORMATION NECESSARY TO COMPLETE THE LIFT STATION DESIGN.

NOTES:

- MOTOR OVERLOAD RELAY OUTPUT CONTACT SHOWN NORMALLY CLOSED WHEN RELAY IS DE-ENERGIZED, OPEN WHEN ENERGIZED, AND CLOSED WHEN IN ALARM. VERIFY OPERATION OF RELAY PROVIDED AND ADJUST CONNECTION OF RMOR AUXILIARY RELAYS.
- FUSED TERMINAL ON TERMINAL BLOCK TB4 SEE CONTROL POWER AND COMMUNICATION WIRING DIAGRAM DRAWING NO. Y0E28.
- ALL FLOAT CONTROL CIRCUIT WIRES COLOR SHALL BE YELLOW.

KGI
Kalluri Group, Inc.

TBPE Registration No. F-665
16300 Katy Freeway, Suite 172
Houston, Texas 77094
Phone: (713)-365-9288
PROJECT 4285

QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

JOB NO: 00050-0099-01 DATE: 1/19/2026

APPROVED BY:

DATE:

DESIGNED BY:

DRAWN BY:

SURVEYED BY:

FB NO. XXXXXX

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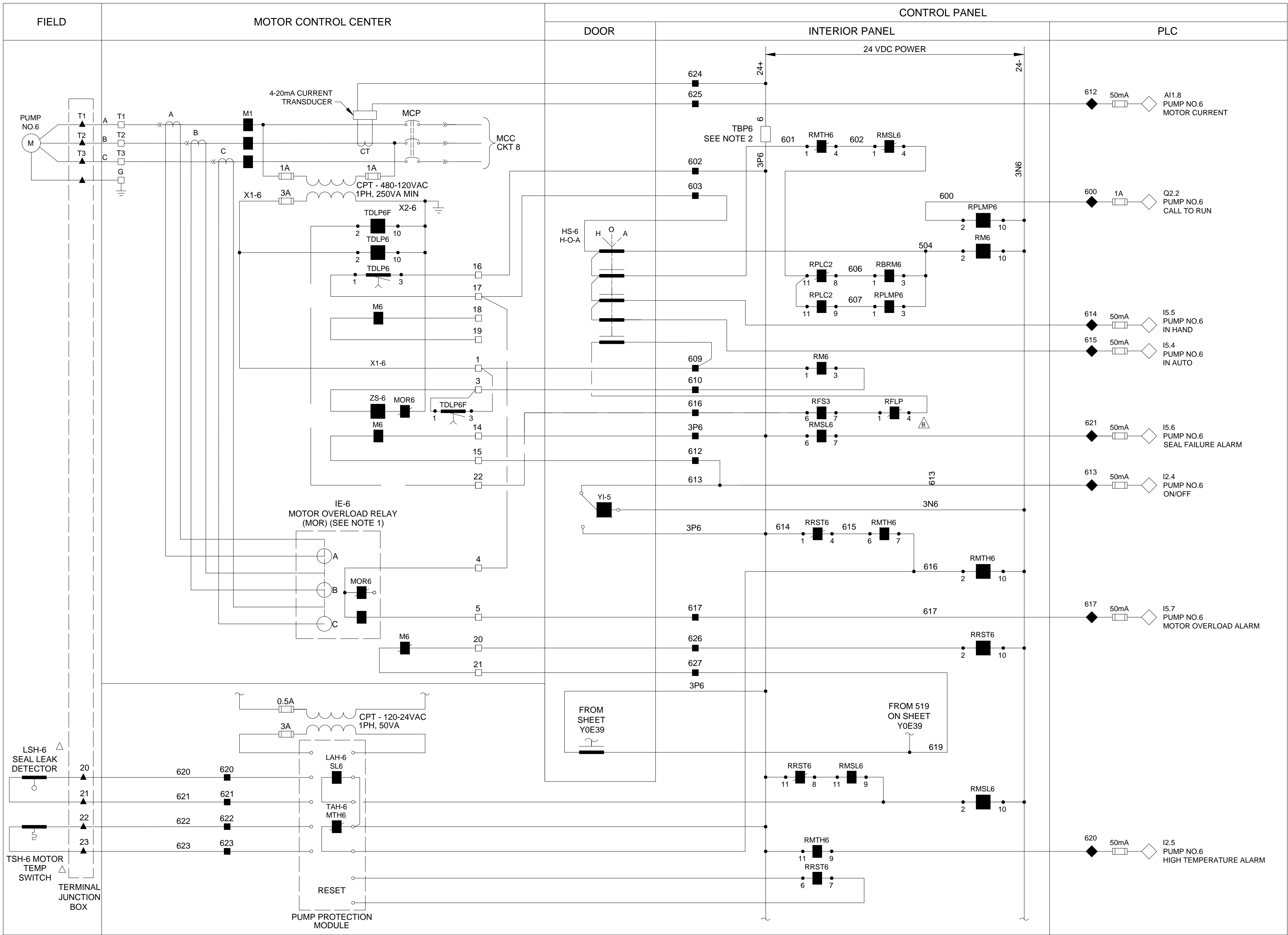
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**SCOTT STREET NO. 1
LIFT STATION REHABILITATION
INSTRUMENTATION**

**PUMP 5 CONTROL
WIRING DIAGRAM**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000267-127A-4	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
TAHA LOTIA	
DWG NO. 2-1-14	
SHEET NO. OF XX	



- LEGEND**
- △ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC/POWER PANEL
 - FIELD TERMINAL LOCATED AT CONTROL PANEL
 - ▲ REMOTE TERMINAL
 - DEVICE TERMINAL NO.
 - ◆ PLC INTERFACE TERMINAL

NOTES TO DESIGN ENGINEER:

- THESE LIFT STATION DRAWINGS ARE CONSIDERED TO BE DESIGN GUIDELINES FOR THE CONSTRUCTION OF CITY OF HOUSTON WASTEWATER SUBMERSIBLE LIFT STATIONS. THEIR INTENDED USE IS AS A FRAMEWORK FOR THE CONTRACTED DESIGN ENGINEER IN DEVELOPING SPECIFIC LIFT STATION DESIGNS.
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LIFT STATION REHABILITATION
INSTRUMENTATION**

**PUMP 6 CONTROL
WIRING DIAGRAM**

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DRAWING SCALE	
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CITY OF HOUSTON PM	
TAHA LOTIA	
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SHEET NO. OF XX	