

ADDENDUM NO. 1

TO THE PLANS, SPECIFICATIONS, PROPOSAL AND CONTRACT FOR THE CITY OF LACEY

TERRY CARGIL RESERVOIR

LACEY CONTRACT NO. PW 2019-32

TO ALL PLAN HOLDERS:

You are hereby notified of the following changes, revisions, deletions, additions, corrections and/or clarifications to the plans, specifications, and contract documents for the *TERRY CARGIL RESERVOIR* project. This addendum is made part of these contract documents as though it was originally included in the Contract. The Contractor shall note the location of the Addenda Receipt Acknowledgement on Page B-4 of the Contract Proposal.

Issued this 28th day of December 2021.

I. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE PLANS

ITEM NO. 1:

Sheet C-8/Page 13 of 62

- 1) *The revisions include changes to notes related to the reservoir diameters.*
Delete Sheet C-4 / Page 13 of 62 and replace it with the new page as attached.

ITEM NO. 2:

Sheet S-3/Page 23 of 62

- 1) *The revisions include changes to notes related to the reservoir diameters.*
Delete Sheet S-3 / Page 23 of 62 and replace it with the new page as attached.

ITEM NO. 3:

Sheet S-4/Page 24 of 62

- 1) *The revisions include changes to notes related to the reservoir radii.*
Delete Sheet S-4 / Page 24 of 62 and replace it with the new page as attached.

ITEM NO. 4:
Sheet S-5/Page 25 of 62

- 1) *The revisions include changes to notes related to the reservoir radius.*
Delete Sheet S-5 / Page 25 of 62 and replace it with the new page as attached.

ITEM NO. 5:
Sheet S-8/Page 28 of 62

- 1) *The revisions include changes to notes related to the reservoir radius.*
Delete Sheet S-8 / Page 28 of 62 and replace it with the new page as attached.

ITEM NO. 6:
Sheet M-1/Page 32 of 62

- 1) *The revisions include changes to notes related to the reservoir diameters.*
Delete Sheet M-1 / Page 32 of 62 and replace it with the new page as attached.

ITEM NO. 7:
Sheet M-3/Page 34 of 62

- 1) *The revisions include changes to notes related to the reservoir radii.*
Delete Sheet M-3 / Page 34 of 62 and replace it with the new page as attached.

ITEM NO. 8:
Sheet M-4/Page 35 of 62

- 1) *The revisions include changes to notes related to the hatch and vent spacing.*
Delete Sheet M-4 / Page 35 of 62 and replace it with the new page as attached.

ITEM NO. 9:
Sheet M-6/Page 37 of 62

- 1) *The revisions include changes to notes related to the access tube.*
Delete Sheet M-6 / Page 37 of 62 and replace it with the new page as attached.

ITEM NO. 10:
Sheet E-4/Page 50 of 62

- 1) *The revisions include changes to notes related to the 6-inch diameter spare conduits.*
Delete Sheet E-4 / Page 50 of 62 and replace it with the new page as attached.

ITEM NO. 11:
Sheet E-7/Page 53 of 62

- 1) *The revisions include changes to notes related to the 6-inch diameter spare conduits.*
Delete Sheet E-7 / Page 53 of 62 and replace it with the new page as attached.

ITEM NO. 12:
Sheet E-13/Page 59 of 62

- 1) *The revisions include changes to notes related to the 6-inch diameter spare conduits.*
Delete Sheet E-13 / Page 59 of 62 and replace it with the new page as attached.

II. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE SPECIFICATIONS

ITEM NO. 13:
Section B

- 1) *The revisions include changes to the Topsoil Type A quantity and making Dewatering a fixed priced bid item.*
Delete Bid Proposal Pages B1-B-4 and replace it with the new Bid Proposal pages as attached.

ITEM NO. 14:
Section D

- 1) *Delete Section 1-02.14 Disqualification of Bidders on Page D-9 and replace with the following*

1-02.14 Disqualification of Bidders

(*****)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet Supplemental Criteria in this Section:

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1). Evidence that the Bidder meets Supplemental Criteria shall be provided by the Bidder as stated later in this Section.

Relevant Experience & Reference Checks

A. Criterion:

- a. The Bidder shall have successfully completed the following:
 - i. Five (5) reservoirs similar in design to the specified reservoir (i.e., composite elevated tank) during the last ten (10) years and at least 0.5 million gallons in volume.
- b. The Tank Builder shall have successfully completed the following:
 - i. Five (5) reservoirs similar in design to the specified reservoir (i.e., composite elevated tank) during the last ten (10) years and at least 0.5 million gallons in volume.

- ii. At least one (1) of the five (5) reservoirs shall be similar in design to the specified reservoir and at least 1.0 million gallons in volume.
- c. The Tank Painting Contractor shall meet the following qualifications:
 - i. A minimum of five (5) years practical experience and a successful history in the application of the specified products to concrete/steel surfaces. Upon request, the Painting/Coating Contractor shall substantiate this requirement by furnishing a list of references, which shall include jobs of similar nature.
 - ii. The Painting Contractor shall have a minimum of five (5) years practical experience and successful history in the application of specified products to surfaces of steel water storage reservoirs. Reservoir Painting contractors shall submit a Supplemental Bidder Responsibility Criteria that meets the Contract requirements.

In evaluating whether the projects were “successfully completed,” the Owner may check owner references for the previous projects and may evaluate the owner’s assessment of the Bidder performance. In conducting reference checks, the Owner may include itself as a reference if the bidder has performed work for the Owner, even if the bidder did not identify the Owner as a reference. The assessment may include but is not limited to the following areas:

- a. Administration / Management / Supervision
 - i. Supervision and decision making
 - ii. Coordination and communication with subcontractors and suppliers
 - iii. Submission of documents, reports, material submittals
 - iv. Timeliness of progress schedules
 - v. Public safety and traffic control
 - vi. Compliance with laws, ordinances and regulations
 - vii. Maintenance of employee safety standards
 - viii. Coordination and cooperation with department personnel on project matters
 - ix. Relations with the general public, other agencies and/or adjacent contractors
- b. Quality of Work
 - i. Adherence to plans and specifications
 - ii. Standards of Workmanship
 - iii. Completion of final (punch list) work
- c. Progress of Work
 - i. Completion of project within allotted time
 - ii. Scheduling and execution of schedule
 - iii. Delivery of materials and supplies
 - iv. Operation and use of equipment
 - v. Use of personnel
- d. Equipment

- i. Condition
- ii. Maintenance
- iii. Proper/Suitable equipment used

B. Documentation: The Bidder shall submit a list of projects to the Owner. Public work is as defined in RCW 39.04.010. For the purposes of meeting this criterion, the Owner has determined that “similar size and scope to this project” means projects that have the characteristics, as described above in Section 1-02.14.A. Criterion The information about each project shall include the following:

- Contractor’s name (identify as bidder or subcontractor)
- Owner’s name and contact information for the owner’s representative;
- Contract amount;
- Date of Completion;
- A brief description of the scope of the project and how the project is similar to this project

As evidence that the Bidder meets the mandatory and supplemental responsibility criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 2:30 P.M. of the second business day following the bid submittal deadline, documentation verifying that the Bidder meets all of the supplemental criteria together with supporting documentation including but not limited to that detailed above (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all supplemental responsibility criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess Bidder responsibility. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder’s compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may (but is not required to) consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and Supplemental Criteria shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5) business days prior to the bid submittal deadline and address the request to the Project Engineer or such other person designated by the Contracting Agency in the Bid Documents.

Section 1-02.14 is supplemented with the following:

The Bidder shall submit a preliminary section view drawing of the proposed Composite Elevated Tank to the Owner. The drawing shall include sufficient detail to illustrate tank geometry, materials of construction, primary dimensions, the high-water level elevation, concrete support structure wall thickness and other information required to show compliance with the special provisions and technical specifications.

ITEM NO. 15:
Section D

- 1) *Delete Section 8-02.3(4) Topsoil on Page D-89 and replace with the following*
8-02.3(4) Topsoil

(*****)

Supplement this section with the following:

The Contractor shall thoroughly scarify the subgrade by tilling, disking or harrowing after the subgrade elevation has been established as indicated on the Plans. If the construction includes a roundabout, the Contractor shall scarify the existing subgrade a minimum of 24 inches deep in the center island of the roundabout to break up the base material of the existing road prior to installation of the topsoil.

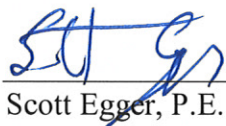
Topsoil shall be placed at 6" depth unless otherwise shown in the Plans.

Final grading shall include raking, floating, dragging, and rolling to remove all surface irregularities and to provide a firm, smooth surface with positive drainage. Imported topsoil shall not be placed more than 3 days prior to permanent seeding.

ITEM NO. 16:
Section E

- 1) *Delete Part 3.1.A of Section 32 91 21 Finish Grading and Seeding on page 32 91 21 – 3 and replace with the following:*

A. Mix topsoil with rough grade fill material and mix thoroughly to a depth of 6-inches.



Scott Egger, P.E.
Director of Public Works

SEE SHT M-1 FOR RESERVOIR DETS

TOP OF VENT EL=

MAX HEIGHT OF RESERVOIR COMPONENTS, PER FAA EL=354.0

TOP OF ROOF EL=

TOP OF WALL EL=

OE=338.5'

75' - 93' RESERVOIR INSIDE DIAMETER, PER TANK MFR

TOP OF SUPPORT WALL EL=292.7'

SHAFT VENT

REINFORCED CONCRETE BASE COLUMN BY TANK MANUFACTURER

40' - 52' RESERVOIR OUTSIDE DIAMETER, PER TANK MFR

PERSONNEL DOOR

10' X 10' OVERHEAD VEHICLE DOOR

RESERVOIR FLOOR EL=228.0'

2% MIN

ASPHALT ROAD (WIDTH VARIES)

2% MIN

FOUNDATION PER TANK MFR, DESIGN PER SPECIFICATIONS

CONCRETE FOUNDATION

STRUCTURAL FILL TO WSDOT 9-01 GEOTECHNICAL SPECIFICATIONS

NATIVE SOIL

6" THICK CRUSHED SURFACE COURSE, EQUAL TO WSDOT SPECIFICATIONS

RESERVOIR WEST ELEVATION

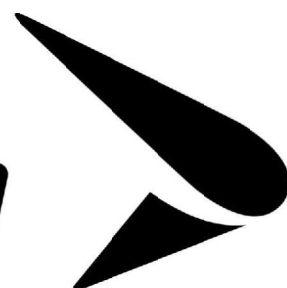
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IF THIS BAR DOES
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murraysmith



*Shaping
our community
together*

**CITY OF LACEY,
WASHINGTON
TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32**

FOUNDATION AND RESERVOIR ELEVATION VIEW


PROJECT NO.:	19-2640	SCALE:	AS SHOWN	DATE:	SEPTEMBER 2021
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SHEET

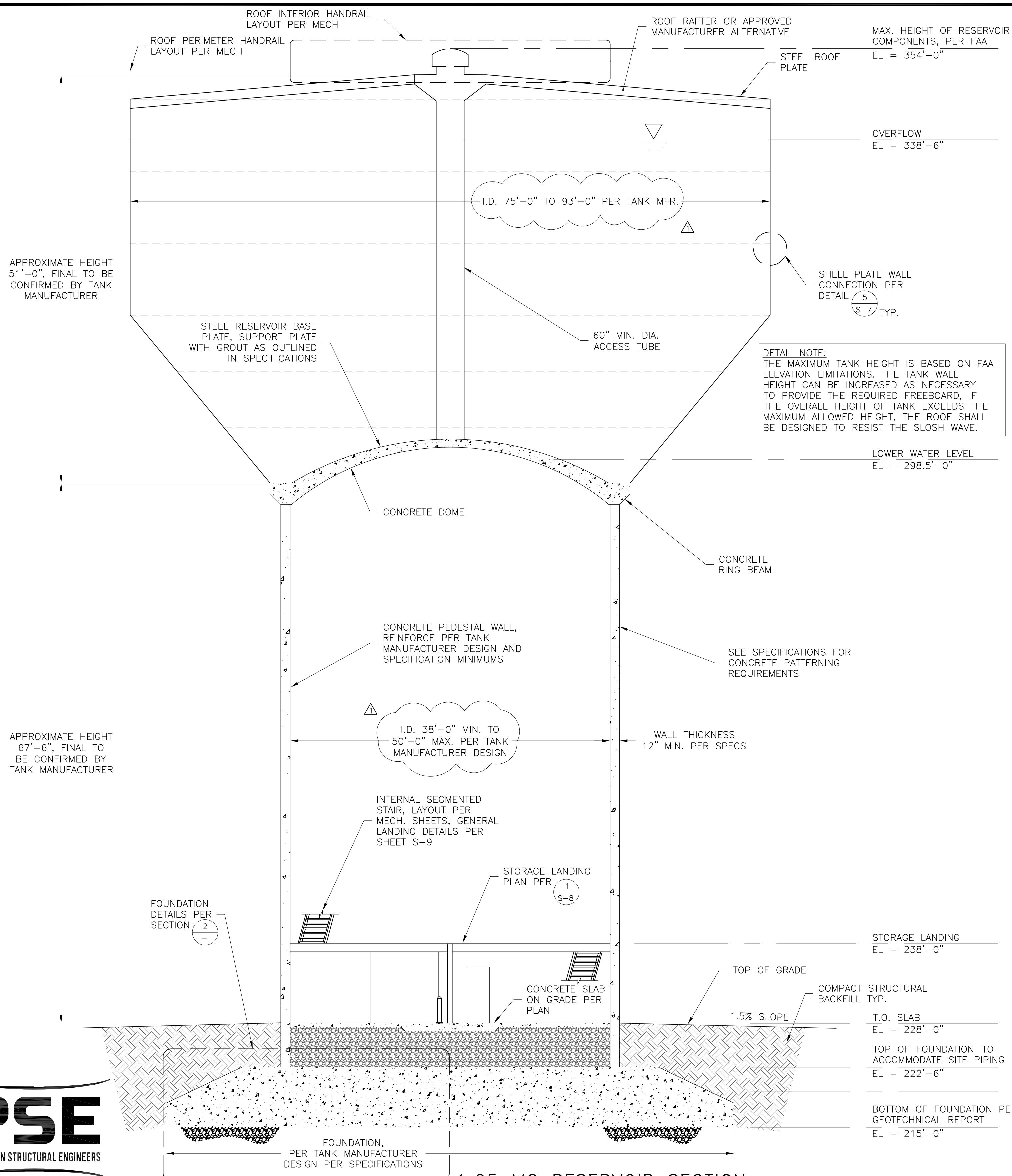
C-8

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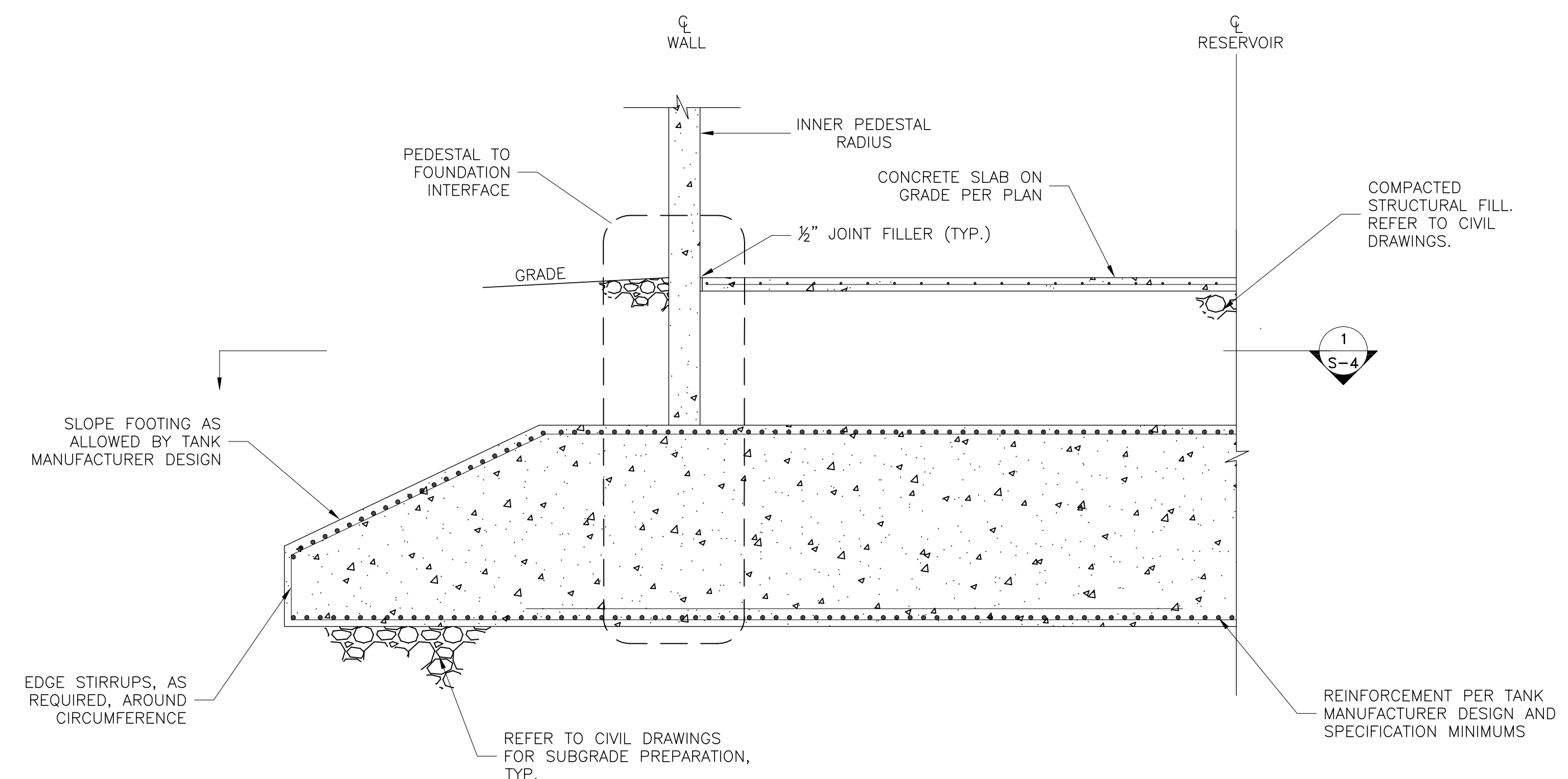
NOTE:

1. PRELIMINARY DESIGN FOR BIDDING PURPOSES.
CONTRACTOR TO PROVIDE FINAL DESIGN OF COMPOSITE
ELEVATED TANK AND FOUNDATION.
-  2. THE CONTRACTOR SHALL COORDINATE ALL DESIGN
ASPECTS WITH THE FINAL PROPOSED BASE COLUMN AND
RESERVOIR DIAMETER FOR A FULLY INTEGRATED DESIGN.

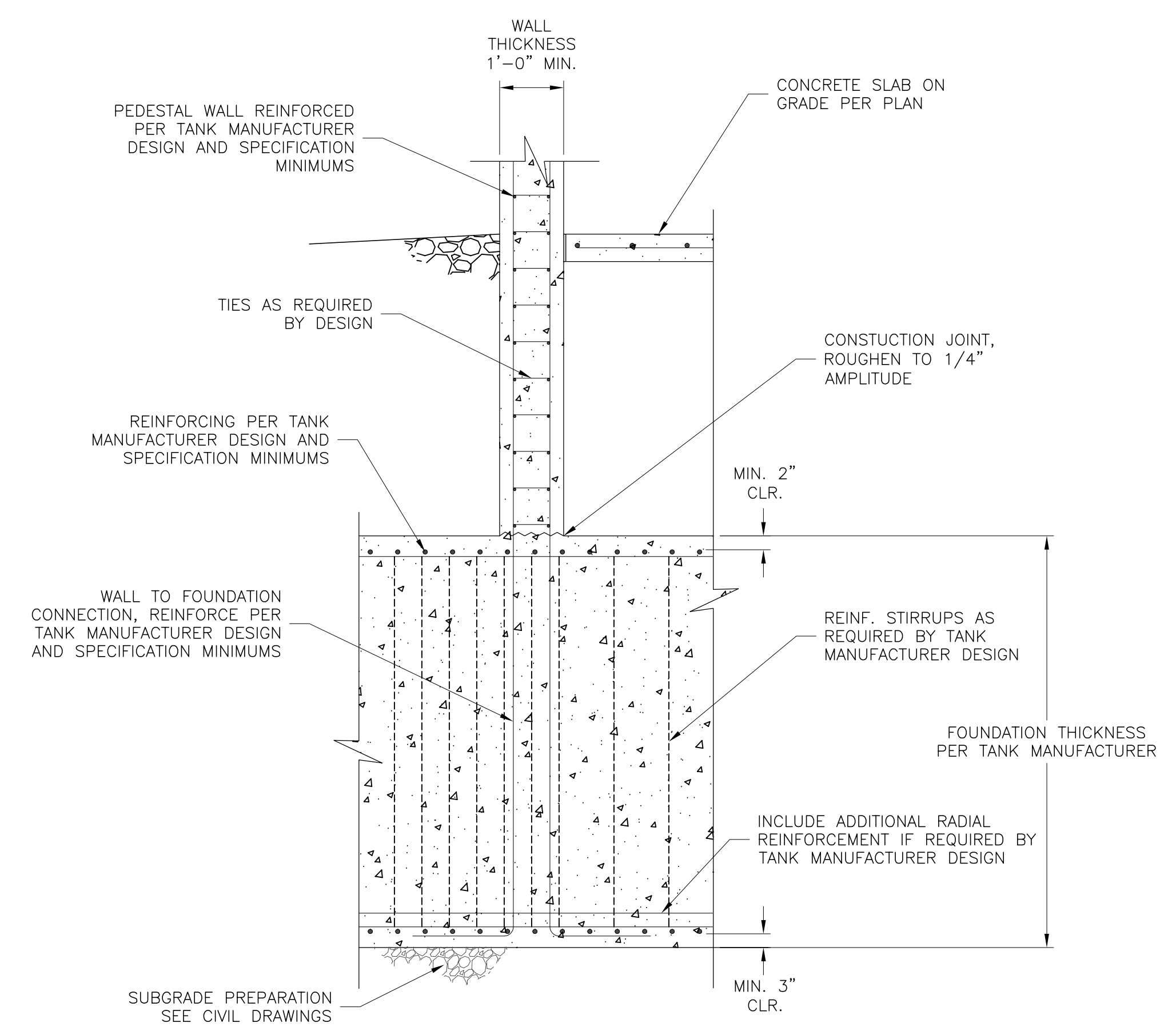
X:\2019\02-TAC\1902-0076 To 1902-0100\1902-0076\1 - Project Data Files\5. CAD Drawings\100 Percent - Addendum 1\2021_12_23 EXTERNAL CET Reservoir Drawings - ADDENDUM 1 1902-0076.dwg S-3 12/23/2021 12:14 PM #####



1.25 MG RESERVOIR SECTION 1
1/8" = 1'-0" S-4 S-5 S-8



FOUNDATION SECTION 2
1/4" = 1'-0"



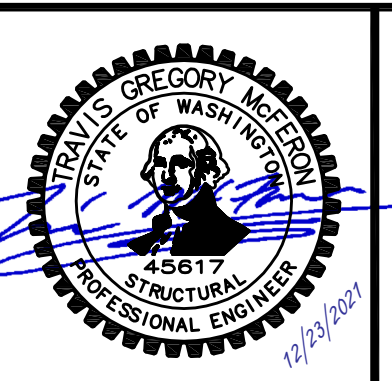
FDN. RING WALL SECTION 3
1/2" = 1'-0"

PSE
PETERSON STRUCTURAL ENGINEERS
708 BROADWAY SUITE 110
TACOMA, WASHINGTON 98402
(253) 830-2140

NO.	DATE	BY	REVISION
1	12/23/21	EFL	ADDENDUM 1

NOTICE
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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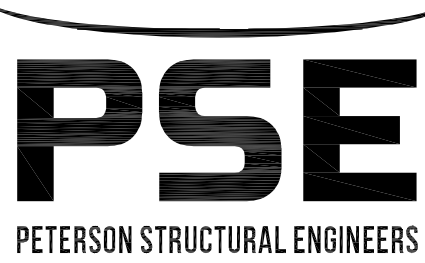


**CITY OF LACEY,
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TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32**

ELEVATIONS AND SECTIONS			
PROJECT NO.:	19-2640	SCALE:	AS SHOWN
DATE:	SEPTEMBER 2021		

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1	12/23/21	EFL	ADDENDUM 1

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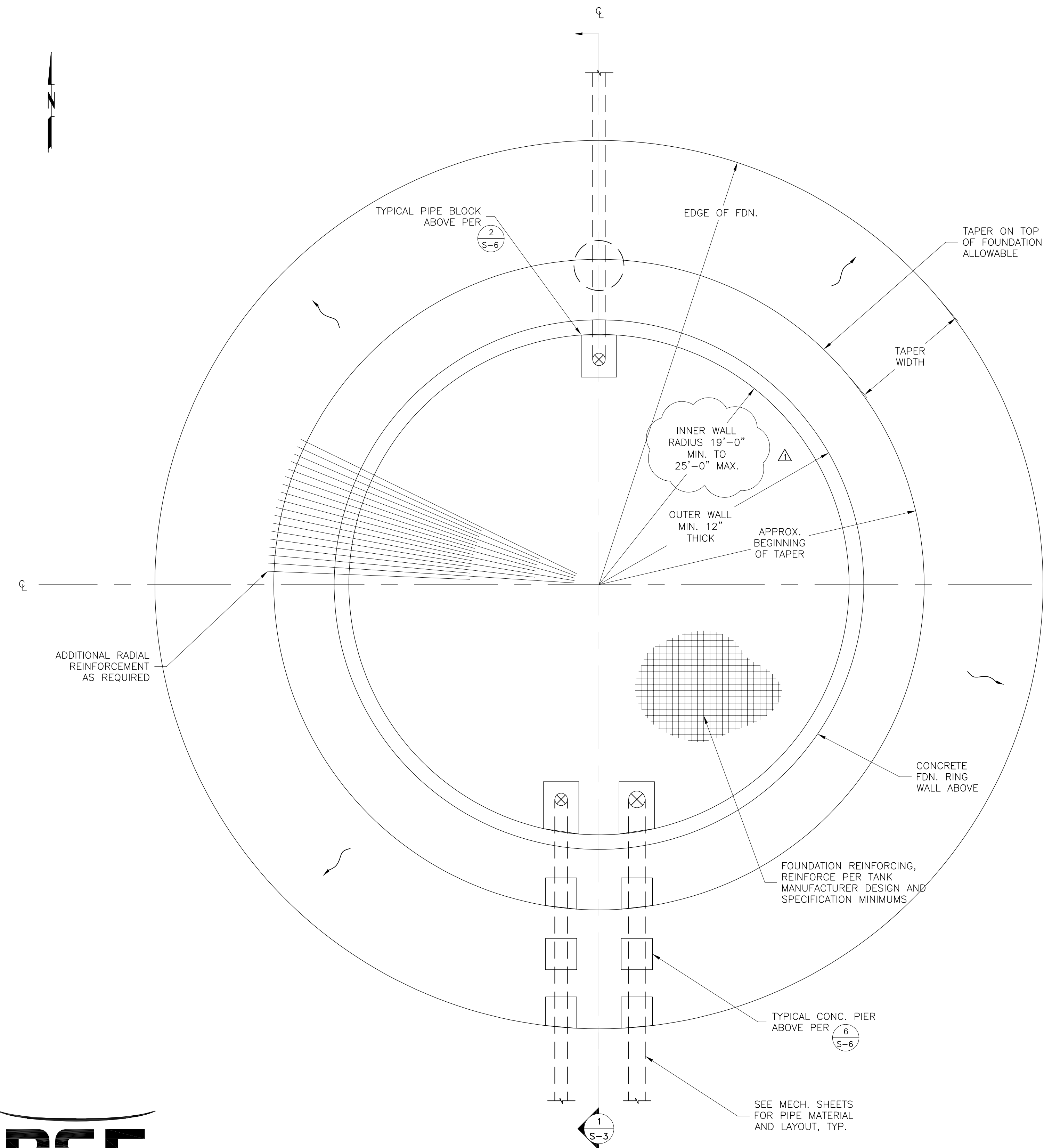


CITY OF LACEY,
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TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32

PROJECT NO.: 19-2640 SCALE: AS SHOWN DATE: SEPTEMBER 2021

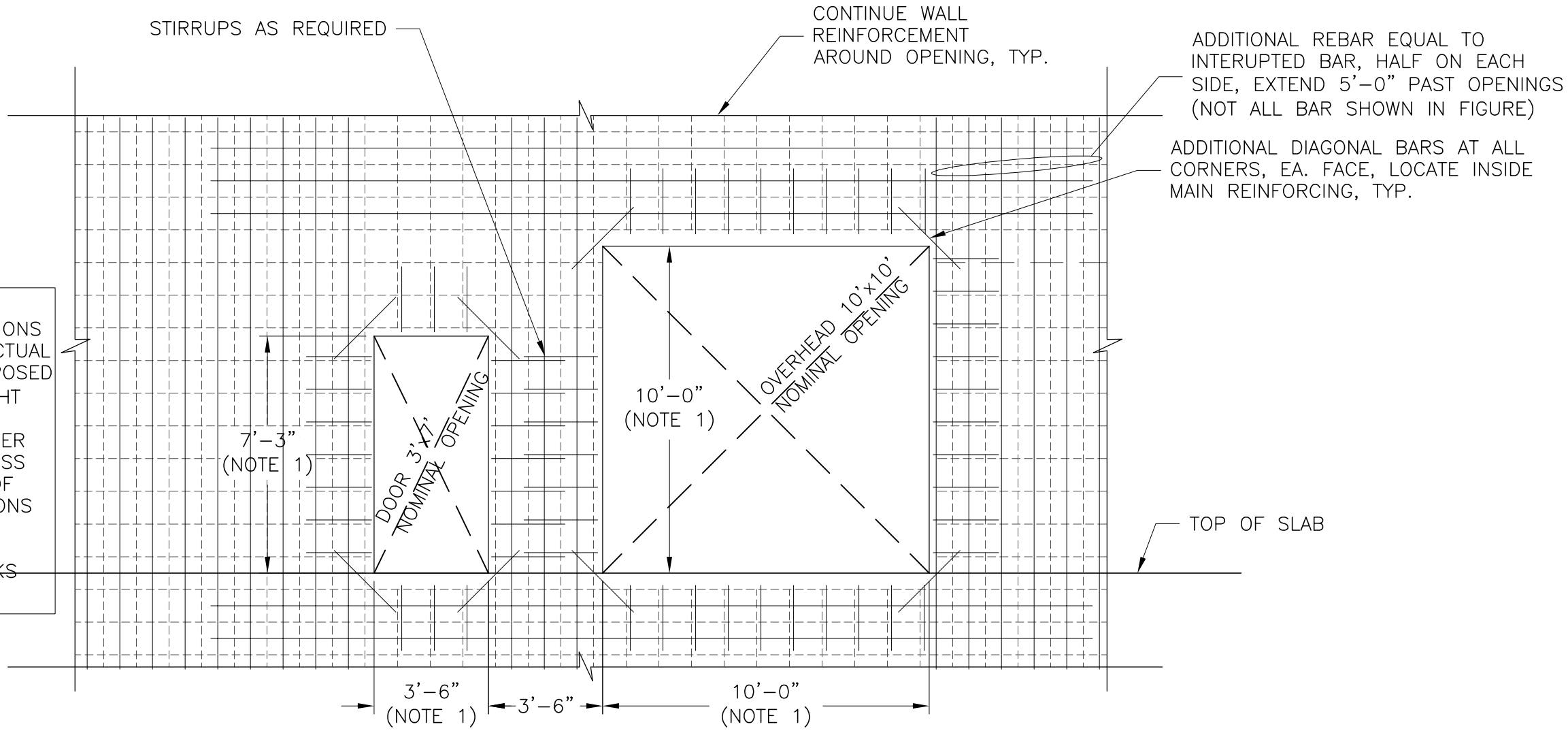
FOUNDATION PLAN AND
INTERIOR SLAB PLAN

SHEET
S-4
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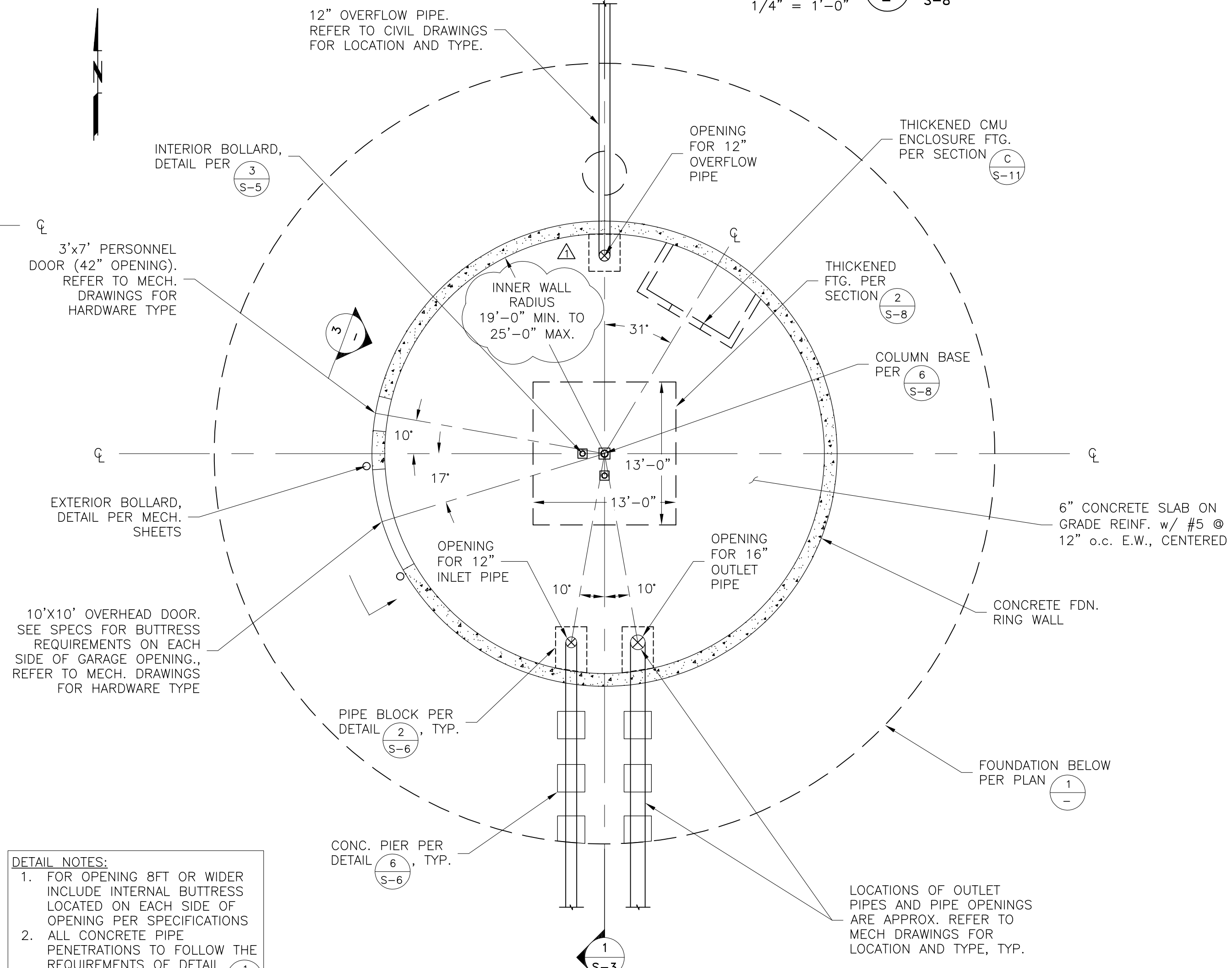


FOUNDATION PLAN (1) S-3
3/16" = 1'-0"

DETAIL NOTES:
1. NOMINAL OPENING DIMENSIONS ARE PROVIDED. ADJUST ACTUAL OPENING SIZES FOR PROPOSED DOOR/GARAGE DOOR HEIGHT AND WIDTH REQUIREMENTS
2. FOR OPENING 8FT OR WIDER INCLUDE INTERNAL BUTTRESS LOCATED ON EACH SIDE OF OPENING PER SPECIFICATIONS
REINFORCING NOTE:
SEE S-6 FOR NOTES ON HOOKS AND TIES



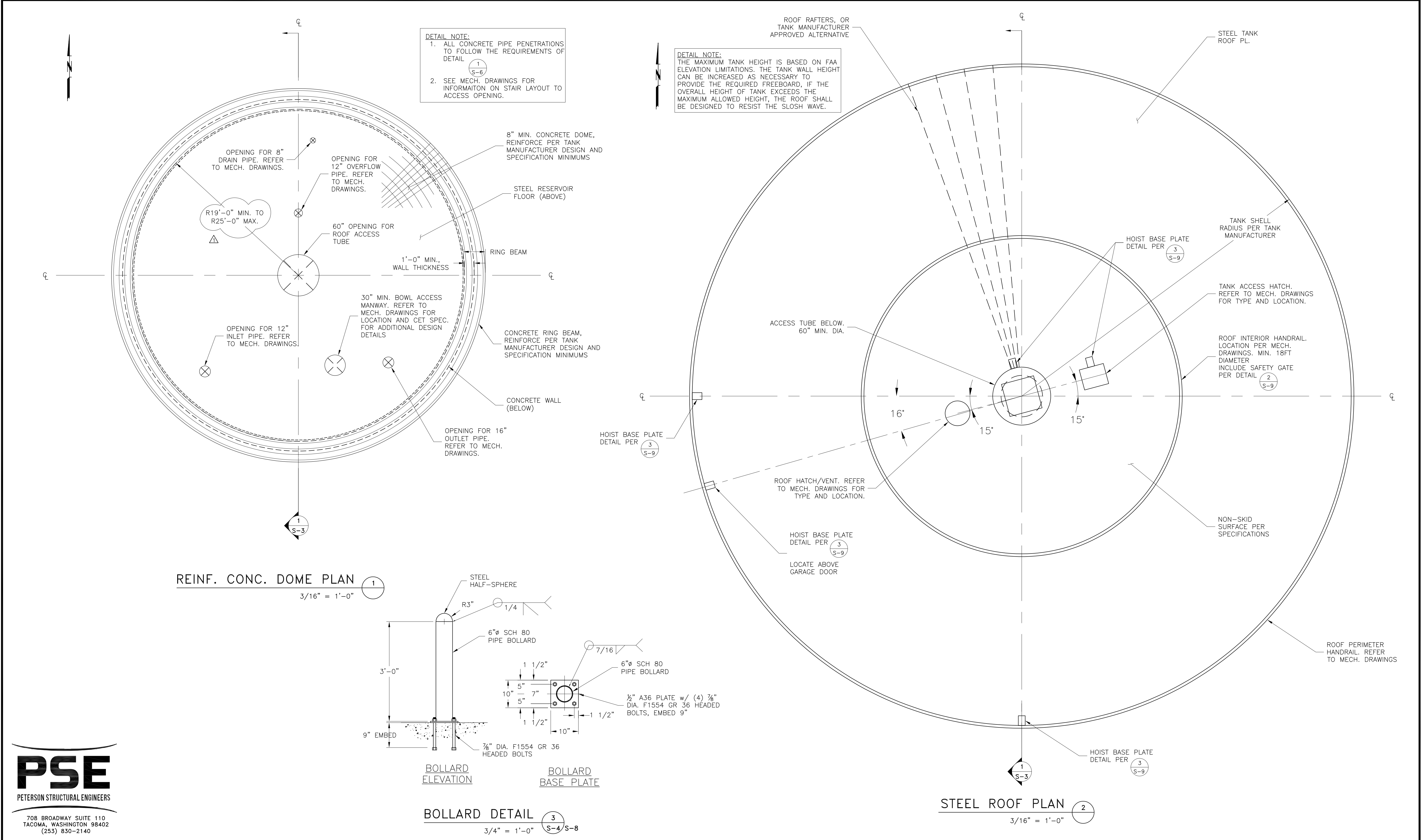
OVERHEAD & PERSONNEL DOOR REINF. (3) S-8
1/4" = 1'-0"



DETAIL NOTES:
1. FOR OPENING 8FT OR WIDER INCLUDE INTERNAL BUTTRESS LOCATED ON EACH SIDE OF OPENING PER SPECIFICATIONS
2. ALL CONCRETE PIPE PENETRATIONS TO FOLLOW THE REQUIREMENTS OF DETAIL (1 S-6)

INTERIOR SLAB PLAN (2) S-6
1/8" = 1'-0"

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PSE
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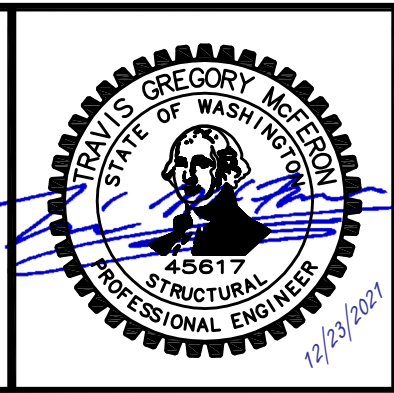
NO.	DATE	BY	REVISION
1	12/23/21	EFL	ADDENDUM 1

NOTICE

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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GRL	DRAWN
TGM	CHECKED

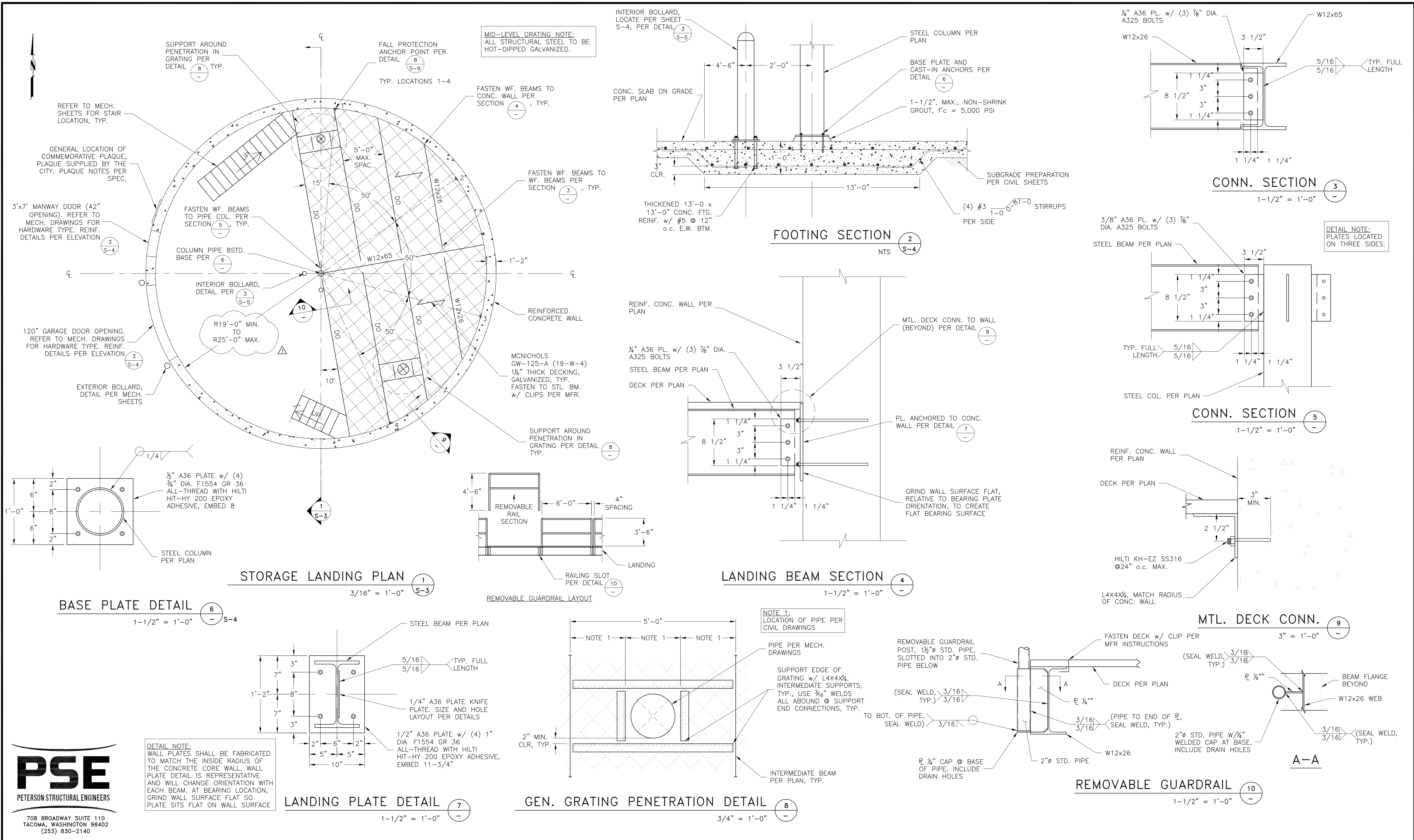


**CITY OF LACEY,
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TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32**

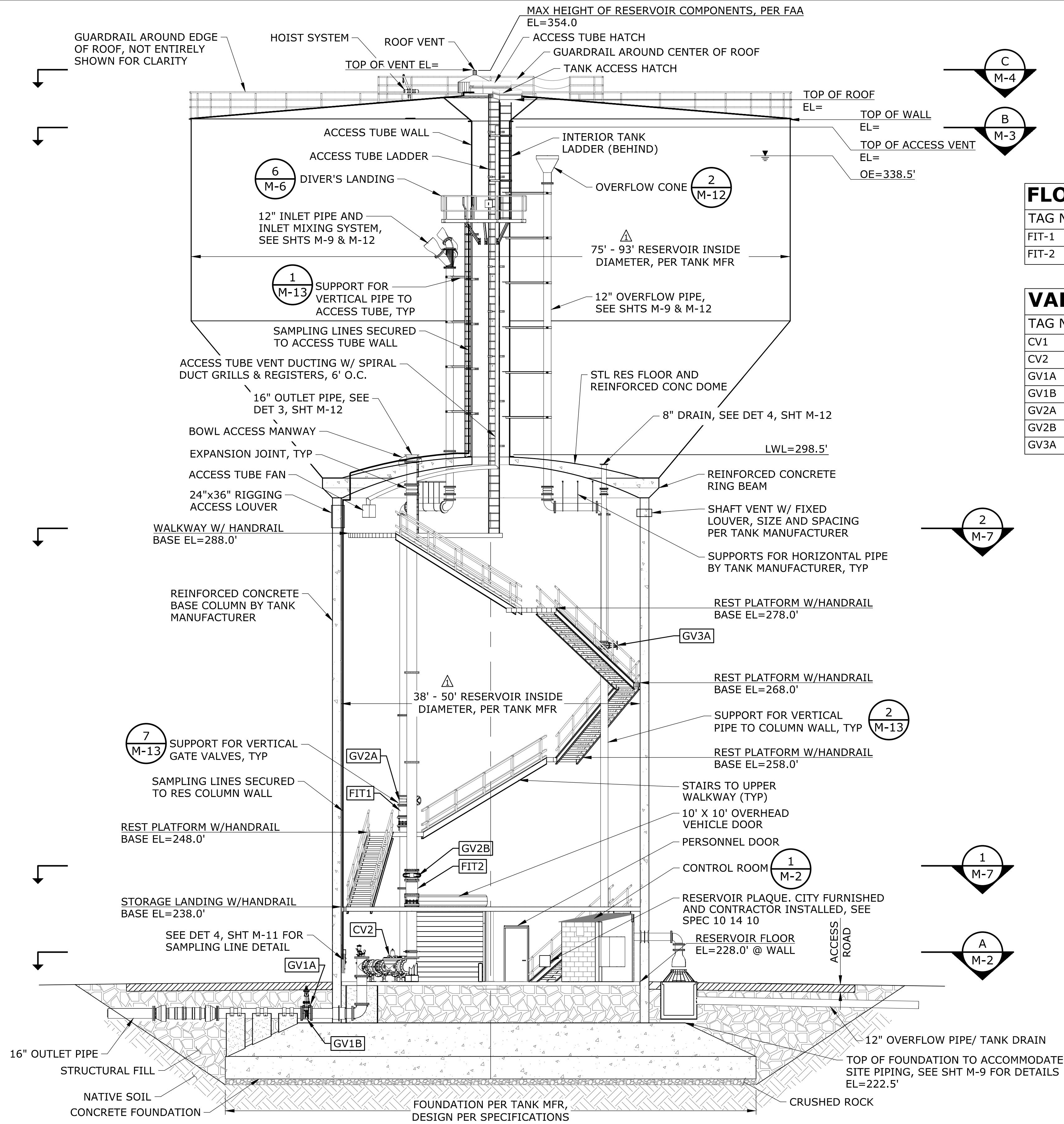
CONCRETE SLAB PLAN AND ROOF PLAN			
PROJECT NO.:	19-2640	SCALE:	AS SHOWN
DATE:	SEPTEMBER 2021		

SHEET
S-5
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FLOW METER SCHEDULE

TAG NO.	DESCRIPTION	LOCATION	TYPE	SIZE	PRESSURE RATING	SPECIFICATION
FIT-1	METERS FLOW TO THE RESERVOIR	248' LANDING	MAG METER	12 - INCHES	150 PSI	40 67 00
FIT-2	METERS FLOW TO THE 337 ZONE	STORAGE LANDING	MAG METER	16 - INCHES	150 PSI	40 67 00

VALVE SCHEDULE

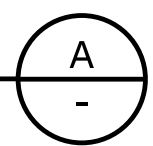
TAG NO.	TYPE	SIZE, INCHES	PRESSURE RATING	OPERATOR TYPE	SPECIFICATION
CV1	ALTITUDE VALVE	12	150 PSI	SOLENOID	40 05 23.73
CV2	SEISMIC VALVE/CHECK VALVE	16	150 PSI	SOLENOID	40 05 23.73
GV1A	GATE	12	150 PSI	MANUAL, NUT	40 05 13
GV1B	GATE	16	150 PSI	MANUAL, NUT	40 05 13
GV2A	GATE	12	150 PSI	MANUAL, HANDWHEEL	40 05 13
GV2B	GATE	16	150 PSI	MANUAL, HANDWHEEL	40 05 13
GV3A	GATE	8	150 PSI	MANUAL, HANDWHEEL	40 05 13

NOTE:

- MECHANICAL SHEETS WERE DEVELOPED USING A 3D MODEL. SELECT RESERVOIR APPURTENANCES WERE REMOVED FROM SOME VIEWS FOR CLARITY.
- STORAGE LANDING, LANDINGS, AND WALKWAY RAILINGS AND SUPPORTS NOT SHOWN FOR CLARITY. SEE SHEET S-8 FOR DETAILS.
- PRELIMINARY DESIGN FOR BIDDING PURPOSES. CONTRACTOR TO PROVIDE FINAL DESIGN OF COMPOSITE ELEVATED TANK AND FOUNDATION.

RESERVOIR SECTION

SCALE: NTS



NO.	DATE	BY	REVISION
1	12/23/21	MLH	ADDENDUM 1

NOTICE

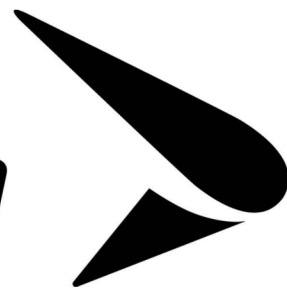
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MRO/TED
DESIGNED
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**CITY OF LACEY,
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TERRY CARGIL
RESERVOIR
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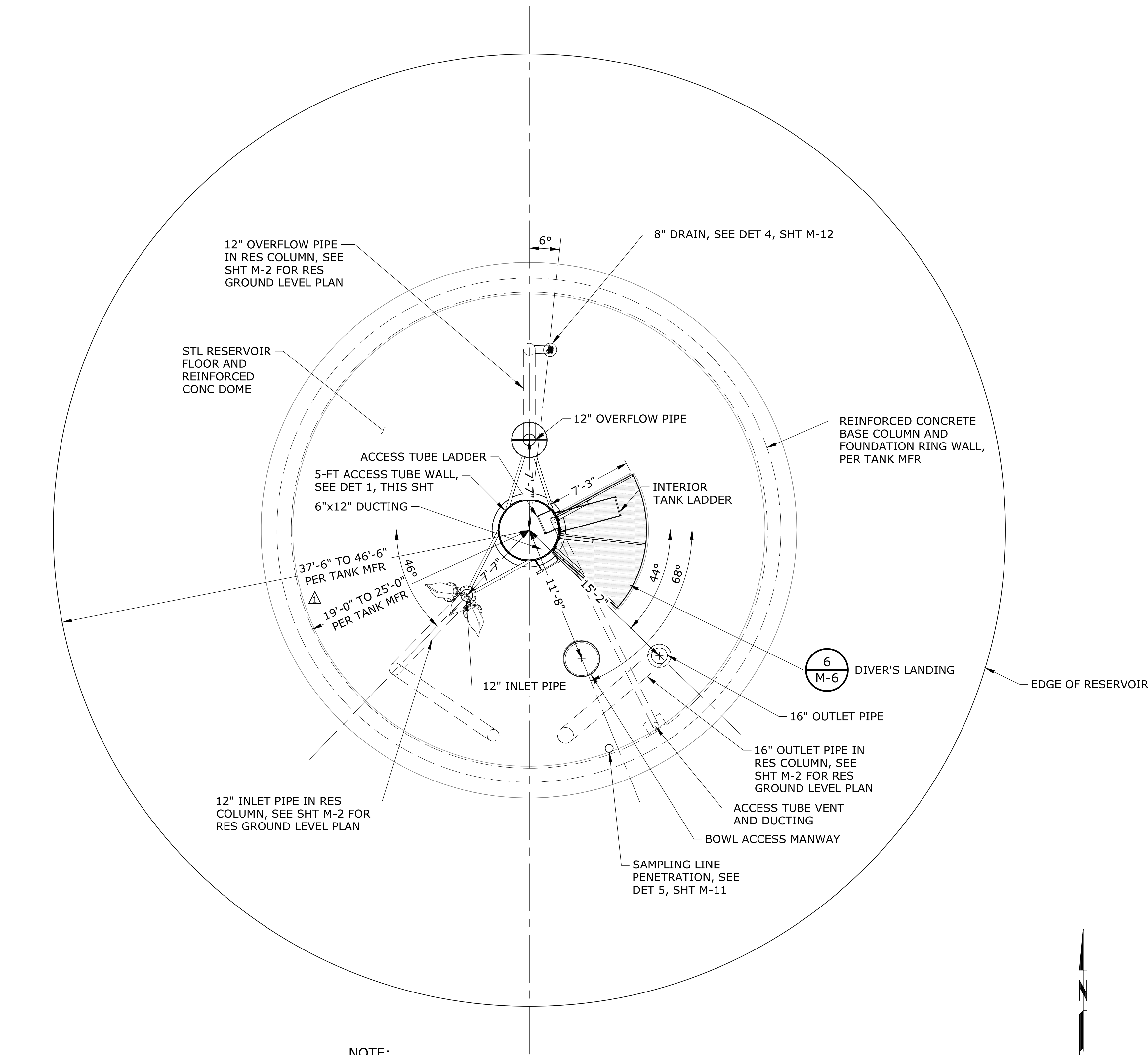
RESERVOIR SECTION AND DETAILS			
PROJECT NO.:	19-2640	SCALE:	AS SHOWN
DATE:	SEPTEMBER 2021		

SHEET

M-1

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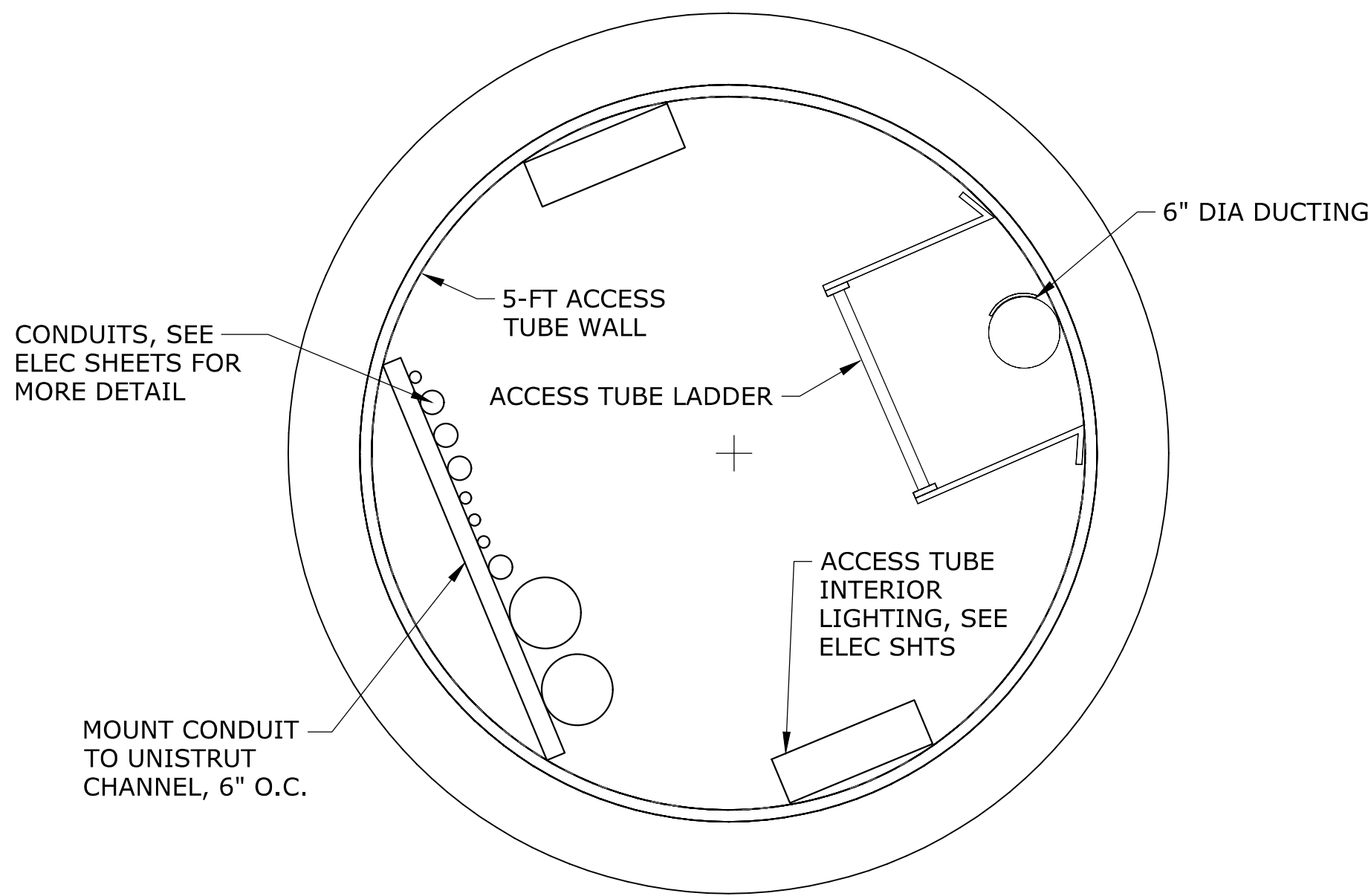
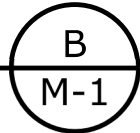


NOTE:

1. FOR PIPE PENETRATION THROUGH TANK, SEE DETAIL 3, SHEET S-7.
2. PRELIMINARY DESIGN FOR BIDDING PURPOSES. CONTRACTOR TO PROVIDE FINAL DESIGN OF COMPOSITE ELEVATED TANK AND FOUNDATION.

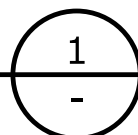
RESERVOIR BOWL PLAN

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



ACCESS TUBE DETAIL

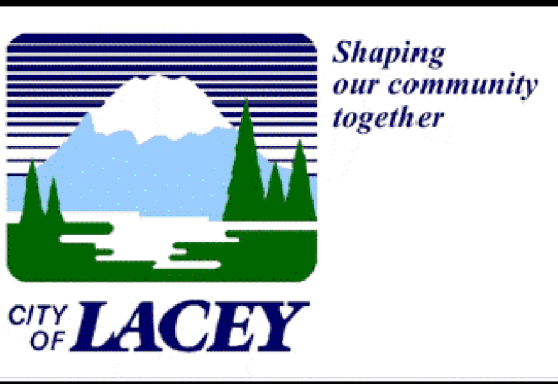
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NO.	DATE	BY	REVISION
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NOTICE
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MRO/TED	DESIGNED
HCM	DRAWN
MLH	CHECKED

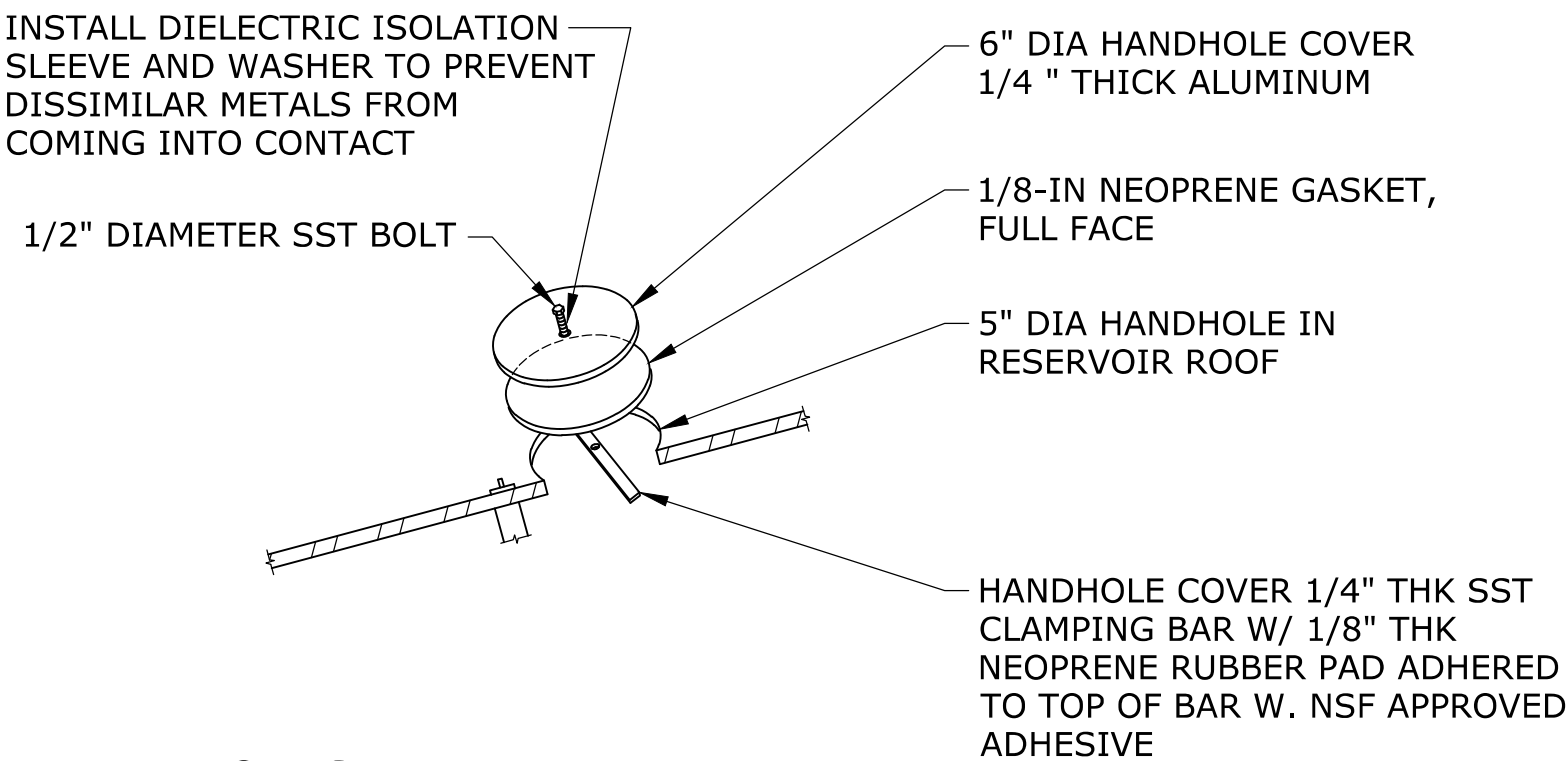
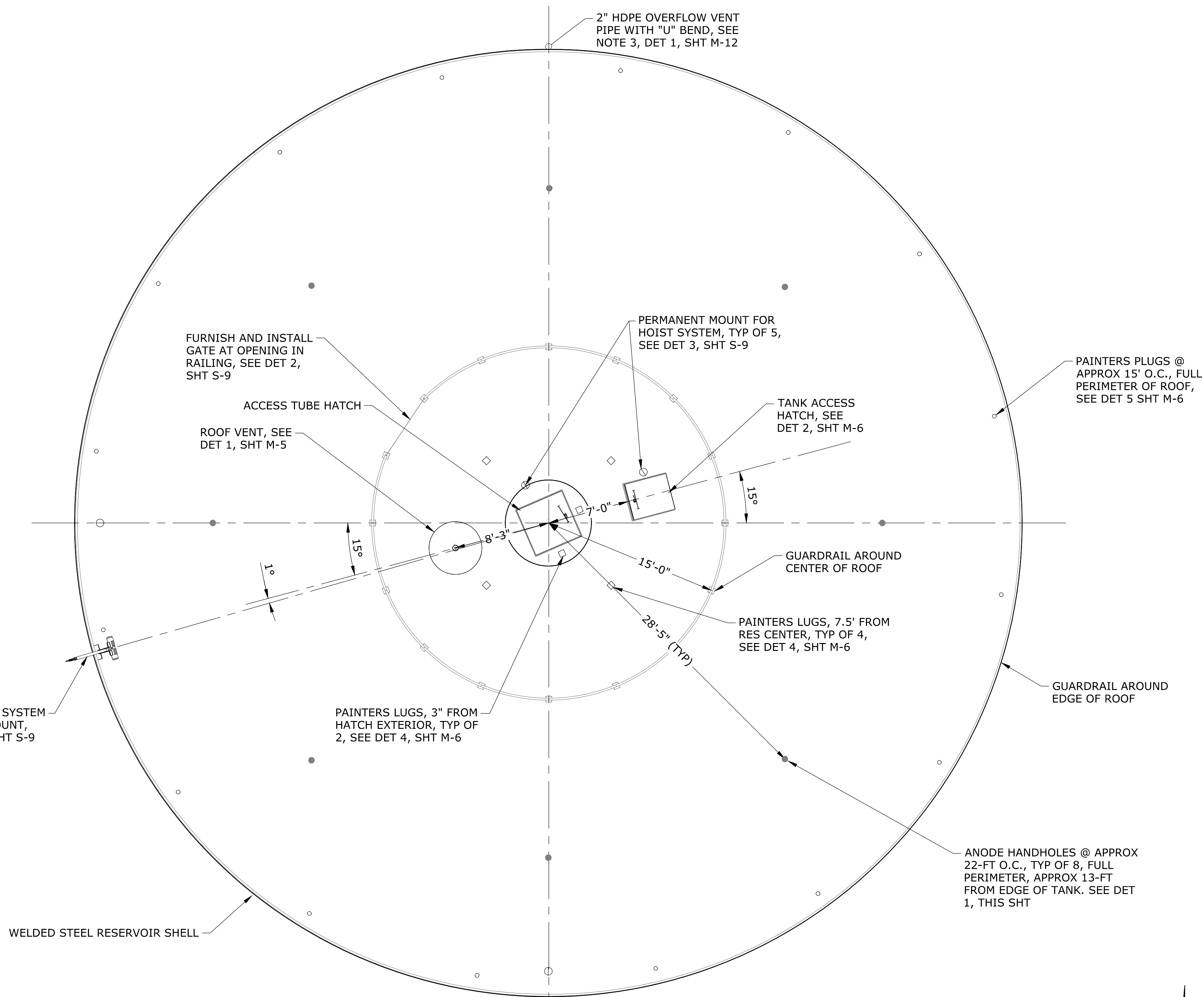


CITY OF LACEY,
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TERRY CARGIL
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#PW 2019-32

RESERVOIR BOWL PLAN			
PROJECT NO.:	19-2640	SCALE:	AS SHOWN
DATE:	SEPTEMBER 2021		

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NOTES:

1. ALL EDGES OF CUTS IN RESERVOIR ROOF SHALL BE SMOOTHED OF ALL ROUGH OR SHARP SURFACES AND BE PAINTED WITH SAME 3 COAT EPOXY SPECIFIED FOR THE INTERIOR COATING.
2. DRILL 1/9" DIAMETER HOLE IN 1/2" DIAMETER STAINLESS STEEL BOLT AT BOTTOM END OF BOLT AND INSTALL A COTTER PIN TO PREVENT CLAMPING BAR FROM DISCONNECTING FROM THE BOLT.

CATHODIC PROTECTION
AND ANODE HANDHOLE

NTS

1
-

NOTES:

1. FOR GUARDRAILS, SEE SHEET S-9.
2. SPACING BETWEEN ACCESS TUBE HATCH, TANK ACCESS HATCH, AND ROOF VENT MAY BE ADJUSTED TO ACCOMMODATE RESERVOIR STRUCTURAL DESIGN, PROVIDED SAFE ENTRY AND EGRESS PATHS FROM HATCHES ARE MAINTAINED. HATCHES AND VENT SHALL REMAIN WITHIN INTERIOR GUARDRAIL AROUND CENTER OF ROOF.

RESERVOIR ROOF PLAN

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

C
M-1

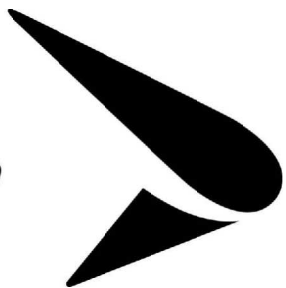
NO.	DATE	BY	REVISION
1	12/23/21	MLH	ADDENDUM 1

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MRO/TED
DESIGNED
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DRAWN
MLH
CHECKED



murraysmith



CITY OF LACEY,
WASHINGTON
TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32

PROJECT NO.: 19-2640 SCALE: AS SHOWN DATE: SEPTEMBER 2021

SHEET

M-4

35 of 62

W:\WF483_Murray Smith Assoc\138_Lacey 337 Res\002_60% Dsn\DWG\E-4.dwg E-4 12/20/2021 5:34 PM AMINICK 24.1s (LMS Tech)

RESERVOIR GROUND LEVEL PLAN - POWER

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

1
E-4

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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CITY OF LACEY,
WASHINGTON
TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32

RESERVOIR GROUND LEVEL POWER & SIGNAL PLANS

PROJECT NO.: 19-2640 SCALE: AS SHOWN DATE: MAY 2021

SHEET

E-4

50 of 62

SHEET NOTES:

- ALL RECEPTACLES SHALL BE LISTED "WEATHER-RESISTANT" TYPE, PER NEC 406.9.
- PROVIDE CONDUIT EXPANSION JOINTS AS MAY BE REQUIRED.
- BOND ALL STRUCTURAL METAL (INCLUDING STAIRWAYS, CATWALKS, ACCESS TUBE LADDER, SAFETY RAILS) AND REBAR TO GROUNDING ELECTRODE SYSTEM, PER NEC.
- ALL CONDUCTORS FOR LIGHTS, RECEPTACLES, AND FAN SHALL BE 10 AWG.
- LIGHTING LAYOUT IS DESIGNED TO PROVIDE THE FOLLOWING AVERAGE ILLUMINANCE: GROUND FLOOR 28 FC, STORAGE PLATFORM 25 FC, STAIRS 15 FC.

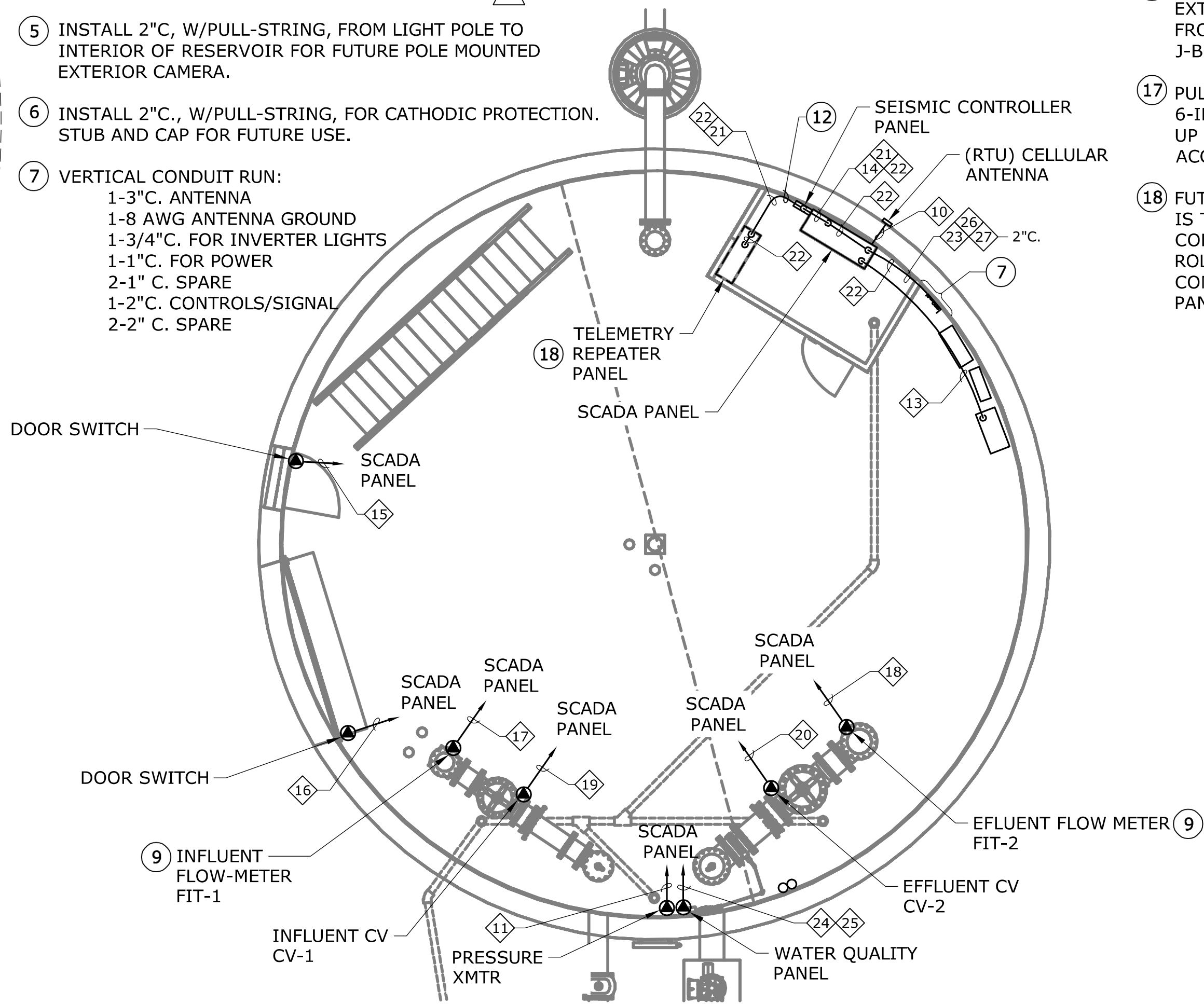
1. ALTERNATE OPTION: CONTRACTOR MAY INSTALL (4) 4-IN "SPARE" CONDUITS IN LIEU OF THE (2) 6-IN "SPARE" CONDUITS CALLED OUT IN KEYED NOTES 4 AND 17. MAKE SIZE ADJUSTMENTS TO PULL BOX(ES) AS REQUIRED. FOR PULL BOX(ES) IN VERTICAL RUN, PER KEYED NOTE 17, CONTRACTOR MAY USE ONE PULL BOX AND TERMINATE ALL FOUR 4-IN CONDUITS IN BOX, USE TWO PULL BOXES AND TERMINATE (2) 4-IN CONDUITS PER BOX, OR USE FOUR INDIVIDUAL PULL BOXES. CONTRACTOR MAY USE WIREWAYS AS PULL BOXES. PULL BOX(ES) TO BE SIZED PER NEC 314.28. SEE ALSO SHEET E-13.

KEYED NOTES:

- PROVIDE AND INSTALL METER/MAIN PER PSE REQUIREMENTS.
- RECEPTACLES LOCATED INSIDE RESERVOIR STRUCTURE.
- INSTALL 1" C, W/(1) 10 AWG, P; (1) 10 AWG, N; & (1) 10 AWG, G TO POWER PARKING LOT LIGHTS. EXTEND CONDUITS BACK TO INVERTER.
- INSTALL 2-6" C, W/PULL-STRING, FROM TOP OF RESERVOIR TO GRASSY AREA SOUTH OF RESERVOIR AS SPARES. SEE SHEET E-7 FOR ROUTING INSIDE STRUCTURE.
- INSTALL 2" C, W/PULL-STRING, FROM LIGHT POLE TO INTERIOR OF RESERVOIR FOR FUTURE POLE MOUNTED EXTERIOR CAMERA.
- INSTALL 2" C, W/PULL-STRING, FOR CATHODIC PROTECTION. STUB AND CAP FOR FUTURE USE.
- VERTICAL CONDUIT RUN:
1-3" C. ANTENNA
1-8 AWG ANTENNA GROUND
1-3/4" C. FOR INVERTER LIGHTS
1-1" C. FOR POWER
2-1" C. SPARE
1-2" C. CONTROLS/SIGNAL
2-2" C. SPARE

- STUB-UP AND CAP FUTURE CAMERA CONDUIT INSIDE OF BUILDING, NEAR J-BOX FOR EXTERIOR LIGHTING CIRCUIT.
- FLOW METER MOUNTED IN VERTICAL SECTIONS OF PIPE, AT APPROX. ELEVATION 240' AND 250' (SEE MECHANICAL PLANS).
- INSTALL TYPE 'C' LUMINAIRE @ 12' ABOVE FINISHED FLOOR. WALL MOUNT AT ANGLE USING MOUNTING BRACKET, SEE DETAIL 8/E-7. CONNECT TO CKT A-2.
- INSTALL TYPE 'D' LUMINAIRE ABOVE DOOR. CONNECT TO INVERTER.
- REPEATER PANEL ANTENNA CABLE WIRING INSTALLED. MOUNT CONDUIT TO UNI-STRUT. MOUNT STRUT ON 5' CENTER.
- EMERGENCY LIGHTING INVERTER SYSTEM, UNIT SHALL BE UL924 LISTED, NFPA 101 SELF-TESTING COMPLIANT AND COMPATIBLE WITH LED LIGHTING LOADS. UNIT SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REQUIREMENTS: 98% EFFICIENT; 1.2 KVA (KW) POWER RATING; (2) 20 AMP, 1-POLE CB'S; 3% THD (LINEAR LOADS), MAXIMUM; AND 90-MINUTE RUN TIME. UNIT SHALL BE 1-PHASE WITH 120V INPUT AND 120V OUTPUT, AND SHALL HAVE DRY CONTACTS FOR MONITORING ALARMS AND/OR STATUS. UNIT SHALL BE MYERS ILLUMINATOR CM OR EQUIVALENT. PROVIDE FACTORY START-UP.
- NOT USED.
- INSTALL AN EMERGENCY SHUNT RELAY (ESR) WITH (2) CONTACTS, IN A SEPARATE 1-GANG BOX ADJACENT TO LIGHT SWITCHES. ESR TO BE POWERED FROM NEAREST RECEPTACLE (NORMAL POWER) CKT. SEE DETAIL 5/E-8.

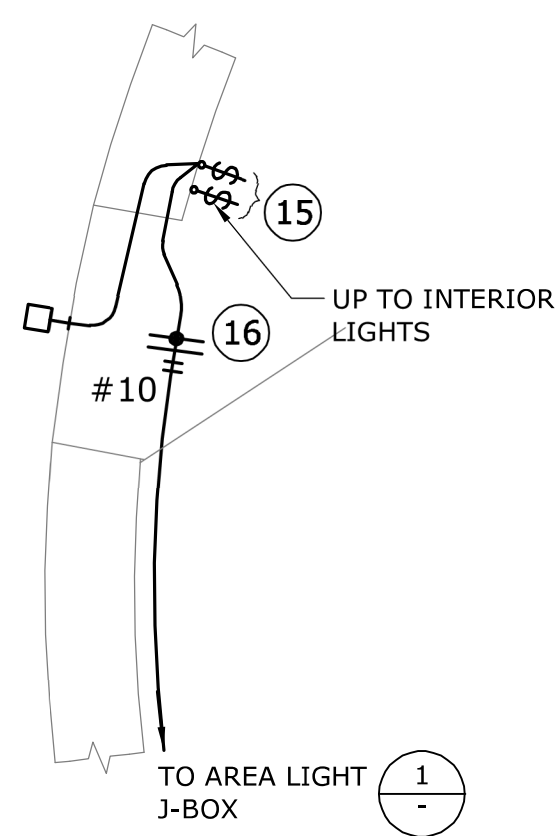
- UNSWITCHED HOT FROM PANEL "A" TO EXTERIOR LIGHT SWITCH; SWITCHED HOT FROM LIGHT SWITCH TO AREA LIGHTS (VIA J-BOXES).
- PULL BOX(ES) IN VERTICAL RUN OF BOTH 6-IN CONDUITS. CONDUITS ARE ROUTED UP WALL AND FOLLOW STAIRCASE TO ACCESS TUBE.
- FUTURE REPEATER PANEL. ANTENNA CABLE IS TO BE INSTALLED AS PART OF THE CONTRACT. LEAVE 36-IN "PIGTAIL" ROLLED UP IN SCADA ROOM FOR CONNECTING TO "FUTURE" REPEATER PANEL.



RESERVOIR GROUND LEVEL PLAN - SIGNAL

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

2
E-4



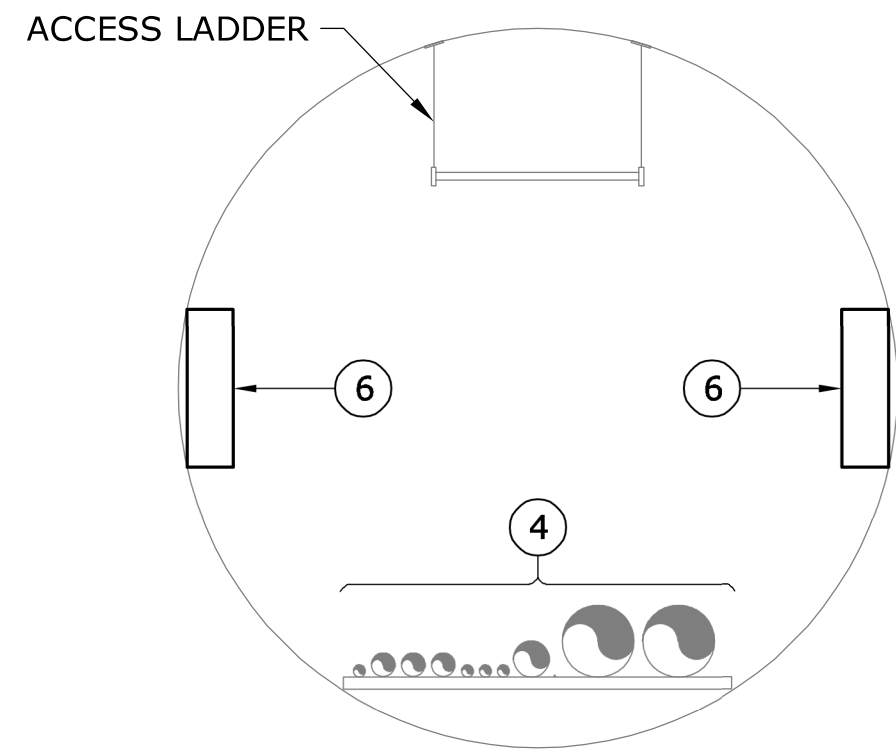
LIGHTING CONTROLS AT DOOR

SCALE: NTS

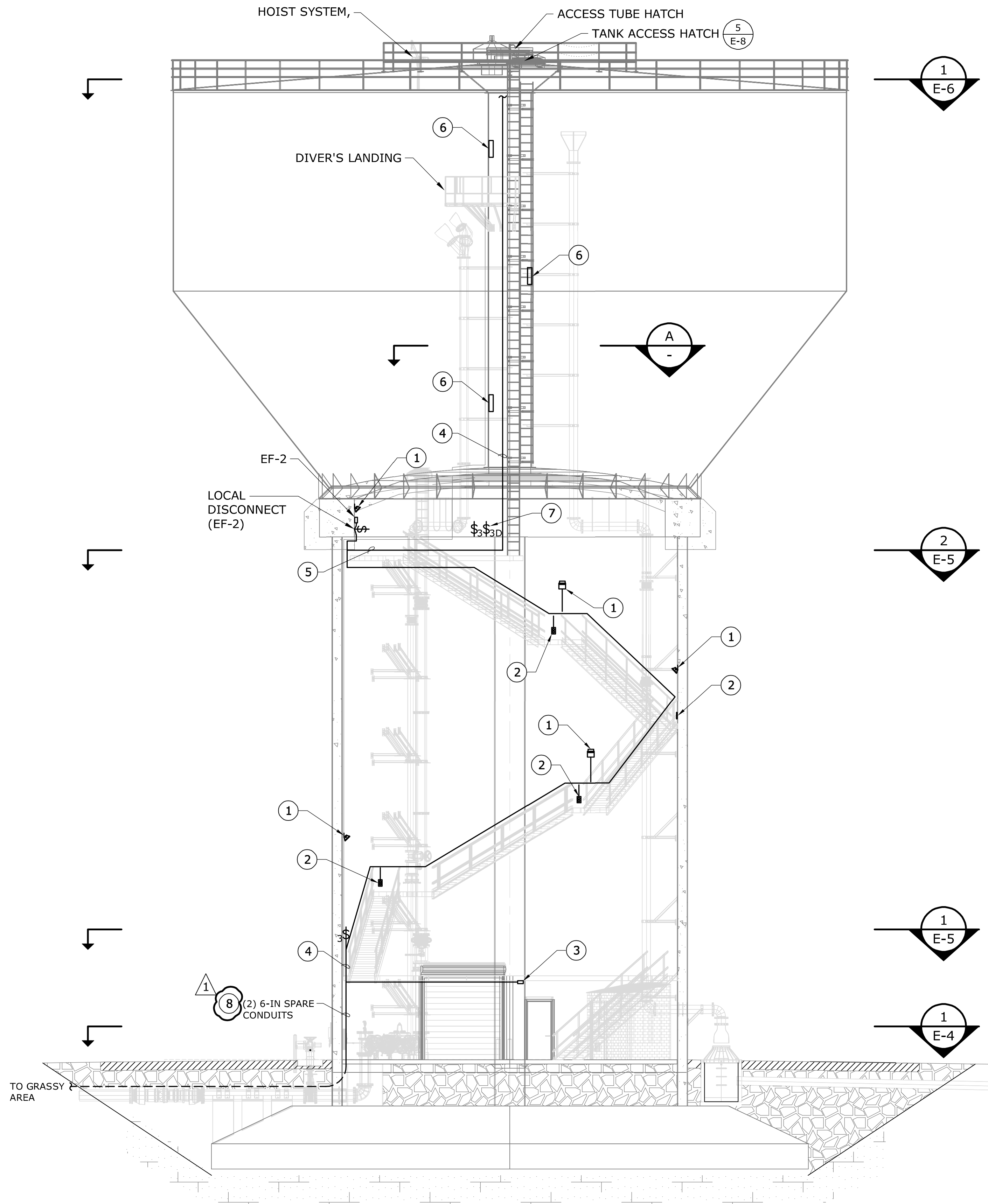
3
E-4



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



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

- SHEET NOTES:**
- A. INDIVIDUAL CONDUIT TAPS TO LIGHTS AND RECEPTACLES NOT SHOWN FOR CLARITY. CONTRACTOR TO INSTALL J-BOXES/CONDULETS AS REQUIRED TO CONNECT LIGHTS, RECEPTACLES, AND FAN TO PANEL 'A' ON MAIN FLOOR. ALL LIGHTS ON SAME CIRCUIT. ALL RECEPTACLES ON SAME CIRCUIT. FAN ON DEDICATED CIRCUIT. RUN ALL CIRCUITS IN SAME 1-INCH CONDUIT.
 - B. ALL CONDUCTORS FOR LIGHTS, RECEPTACLES, AND FAN SHALL BE 10 AWG.
 - C. BOND ALL STRUCTURAL METAL (INCLUDING STAIRWAYS, CATWALKS, ACCESS TUBE LADDER, SAFETY RAILS) AND REBAR TO GROUNDING ELECTRODE SYSTEM, PER NEC.

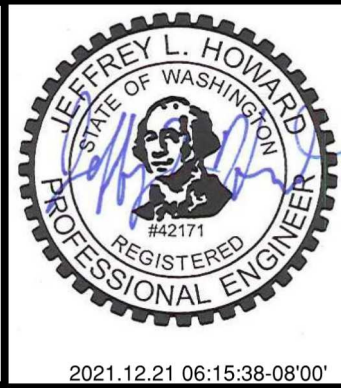
- KEYED NOTES:**
- ① INSTALL TYPE 'B' LUMINAIRE @ 8' ABOVE STAIR PLATFORM. VERIFY MOUNTING METHOD WITH OWNER PRIOR TO INSTALL.
 - ② PROVIDE CONVENIENCE RECEPTACLE AT EACH LANDING.
 - ③ MOUNT J-BOX ON UNDER SIDE OF FLOOR/CEILING. ROUTE CONDUITS UP FROM MAIN FLOOR ALONG WALL SEE ALSO E-4.
 - ④ ROUTE CONDUIT ALONG WALL, FOLLOWING STAIRS UP TO TOP PLATFORM. ROUTE ALONG PLATFORM, OVER TO CENTRAL SHAFT ACCESS TUBE AND CONTINUE UP TO TOP OF RESERVOIR. SEE 5/E-13.
 - ⑤ ROUTE ALONG WALKWAY OVER TO CENTRAL SHAFT, OPPOSITE OF LADDER.
 - ⑥ INSTALL (3) TYPE 'F' LUMINAIRE IN TUBE, EVENLY SPACED IN A STAGGERED PATTERN. VERIFY MOUNTING METHOD WITH OWNER PRIOR TO INSTALL.
 - ⑦ PROVIDE STRUT MOUNTED 3-WAY SWITCHES, ADJACENT TO LADDER; ONE FOR STAIRWAT LIGHTS, ONE FOR ACCESS TUBE LIGHTS. INSTALL SECOND 3-WAY SWITCH NEAR TOP OF LADDER (NOT SHOWN FOR CLARITY) FOR ACCESS TUBE LIGHTS.
 - ⑧ ALTERNATE OPTION: CONTRACTOR MAY INSTALL (4) 4-IN "SPARE" CONDUITS IN LIEU OF THE (2) 6-IN "SPARE" CONDUITS. SEE SHEET E-13

R&W
ENGINEERING, INC.
"Engineering Integrated Solutions"
Project No.: 483.138.002 Contact: JEFF HOWARD
9615 S.W. Allen Boulevard
Suite 107
Beaverton, Oregon 97005
Phone: (503) 292-6000
Fax: (503) 726-3326
E-mail: rwweng@rwweng.com

NO.	DATE	BY	REVISION
1	12/23/21	JLH	ADDENDUM NO. 1

NOTICE
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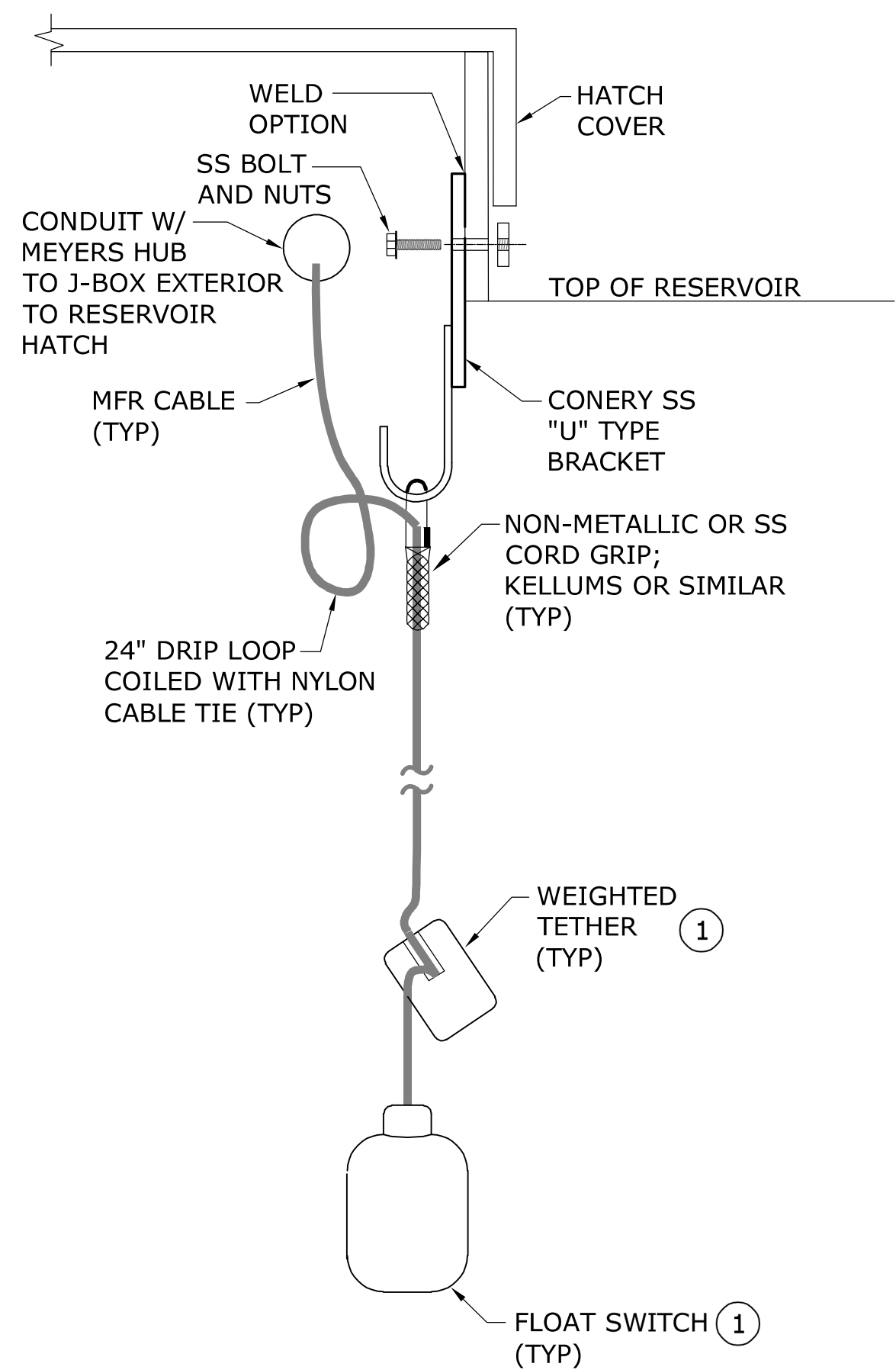
**CITY OF LACEY,
WASHINGTON
TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32**

PROJECT NO.: 19-2640 SCALE: AS SHOWN DATE: MAY 2021

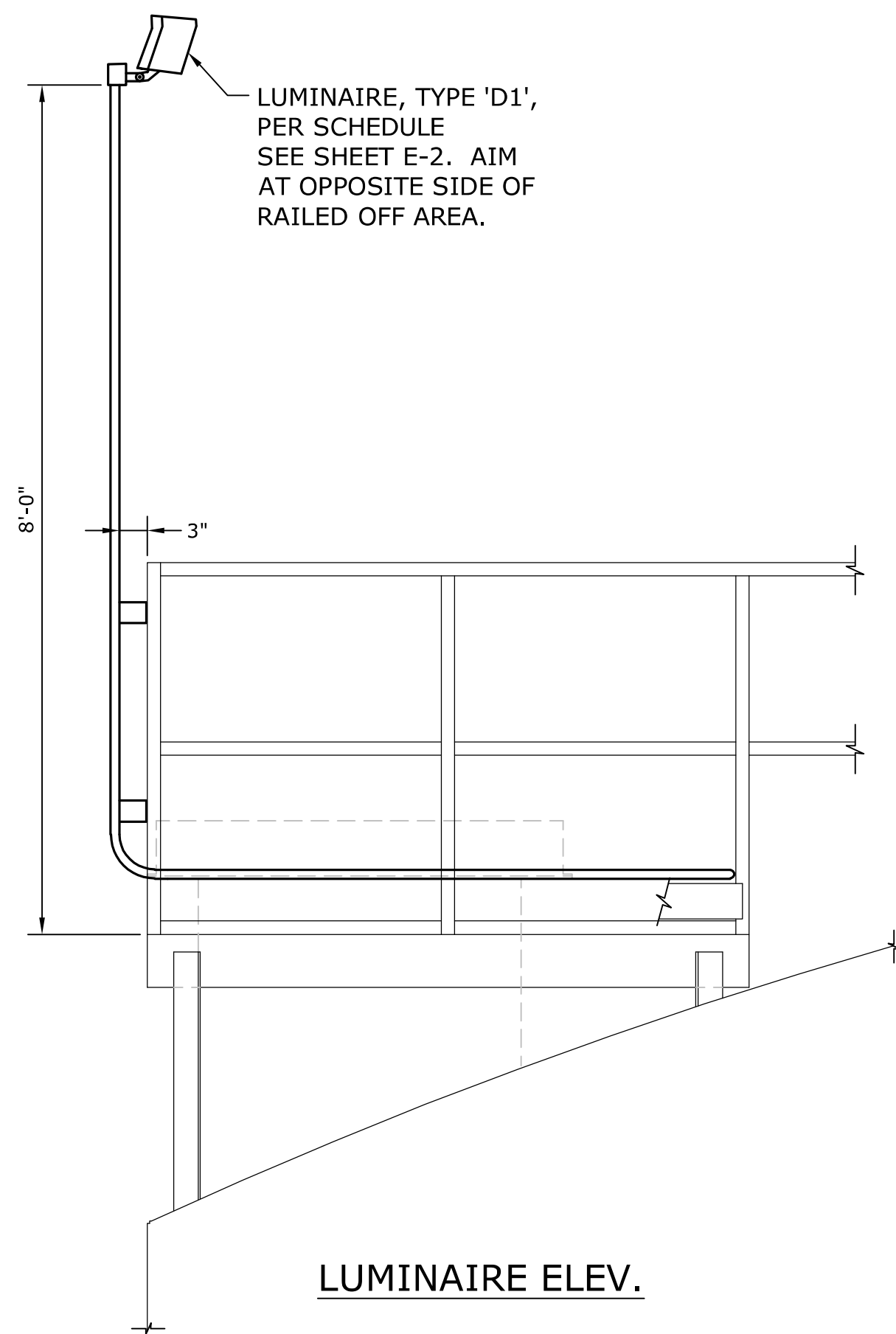
RESEVOIR SECTION

SHEET
E-7
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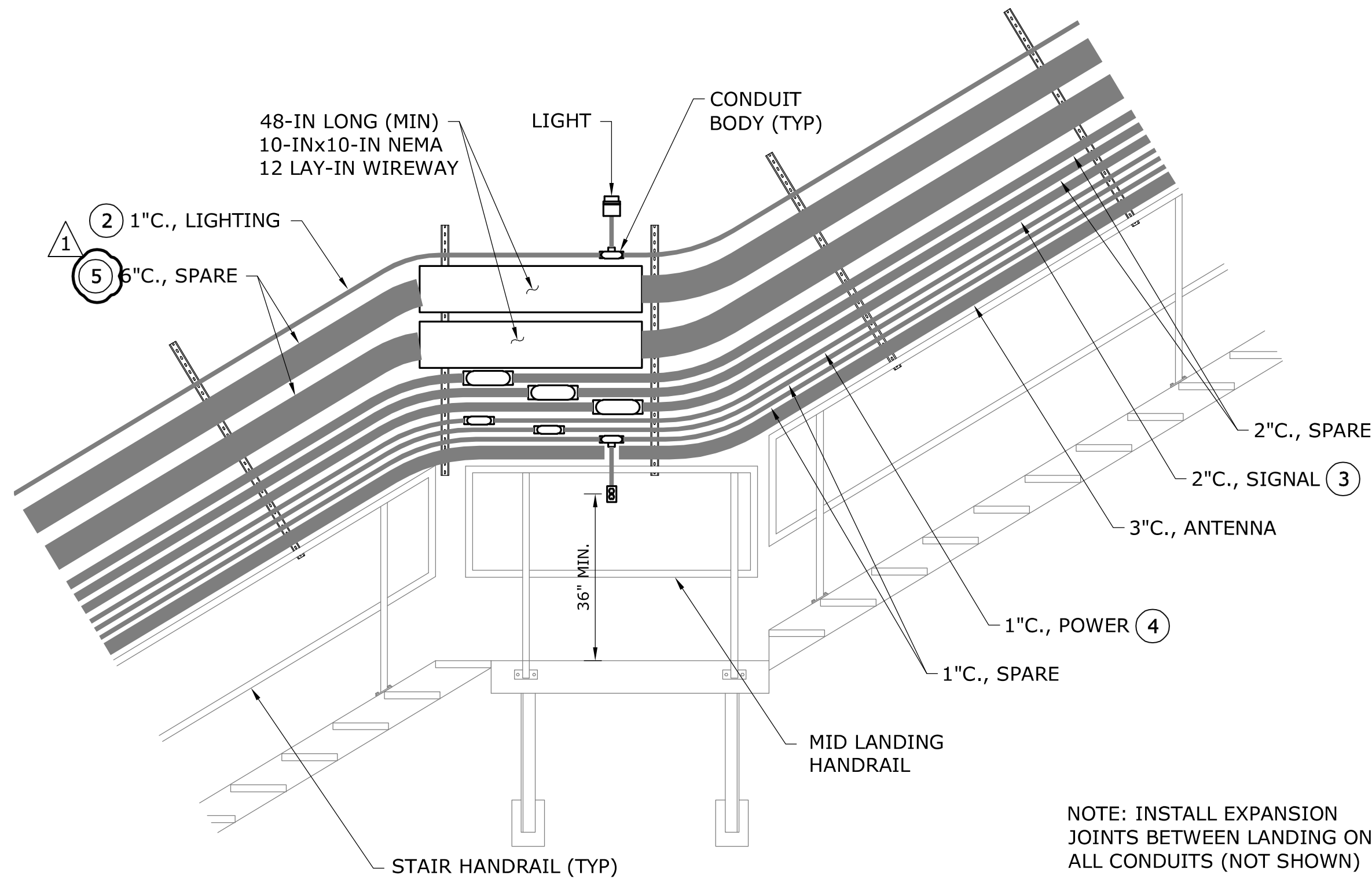
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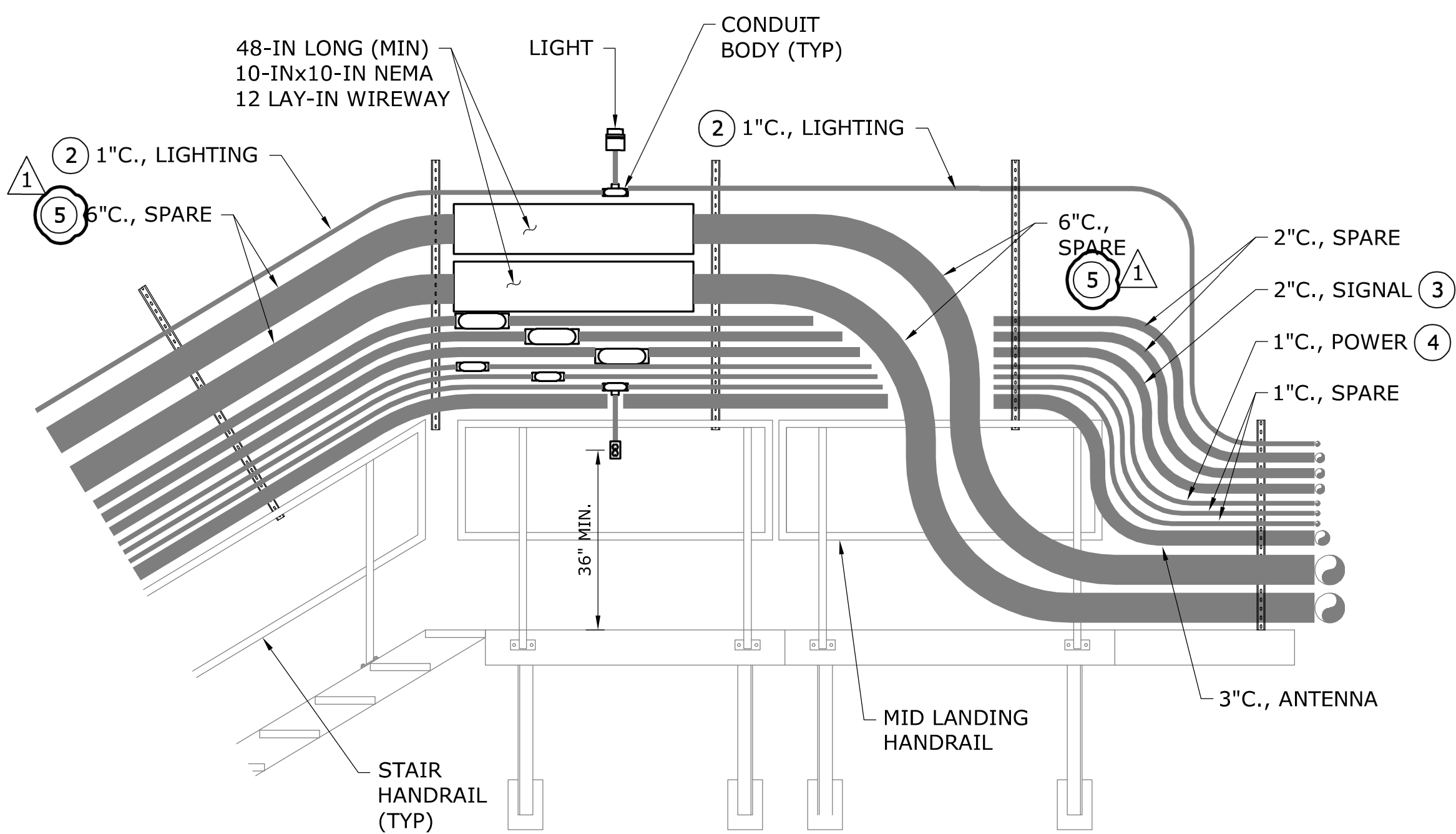
FLOAT MOUNTING DETAIL 1
SCALE: NTS E-13



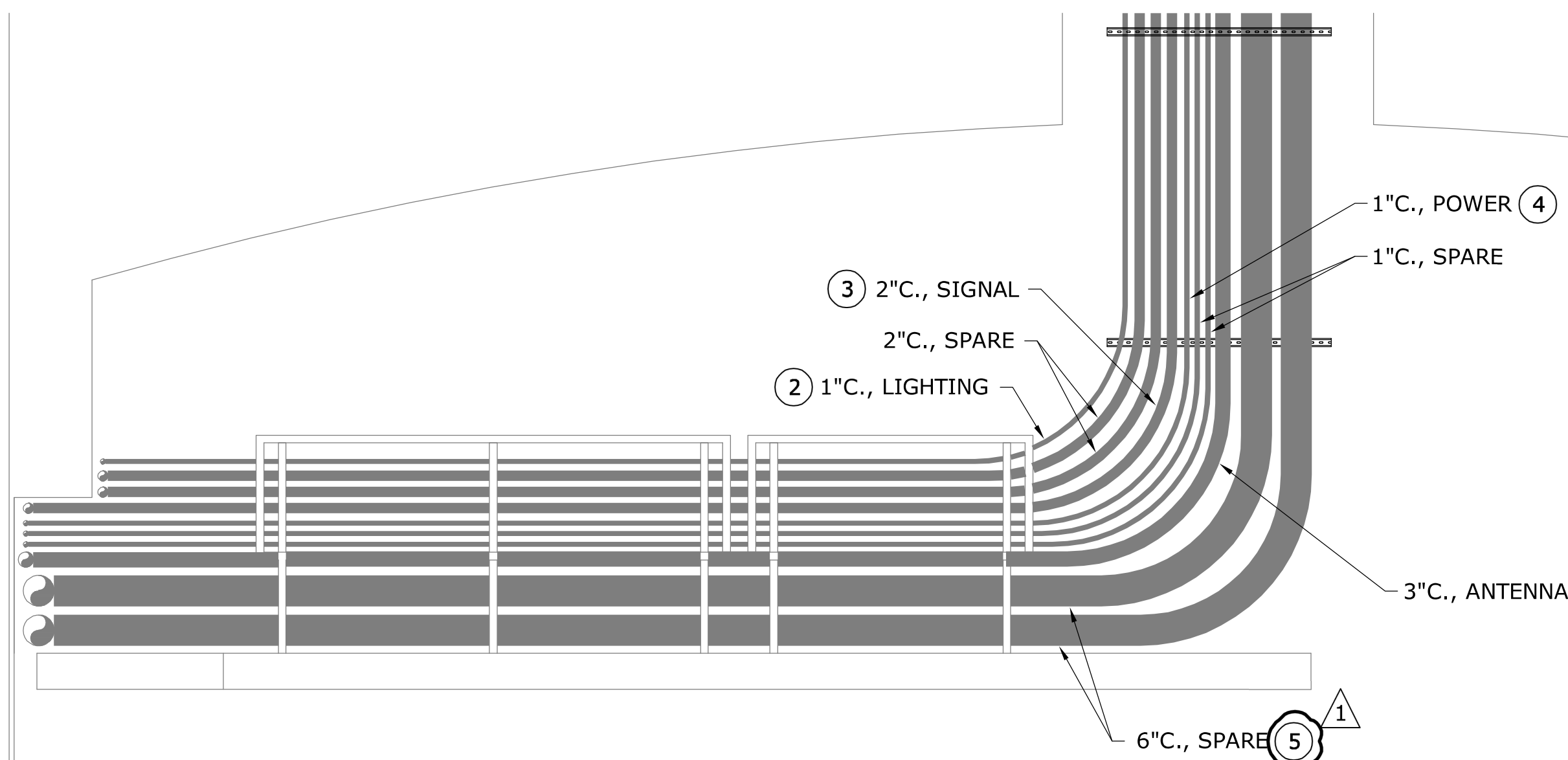
LIGHTING @ TOP OF RESERVOIR 2
SCALE: NTS E-13



CONDUITS OVER STAIR LANDING (TYP) 3
SCALE: 1/2" = 1'-0" E-13



CONDUITS AT TOP LANDING 4
SCALE: 1/2" = 1'-0" E-13



CONDUITS AT CATWALK 5
SCALE: 1/2" = 1'-0" E-13

KEY NOTES:

1 FLOAT SWITCHES AND WEIGHT KIT MUST BE LISTED FOR POTABLE WATER USE.

2 LIGHTING CONDUIT CONTAINS:
(1) #10 P
(1) #10 N
(1) #10 G
(2) #10 C

3 SIGNAL CONDUIT CONTAINS:
(6) #14 C
(1) #12 G
(1) COAX

4 POWER CONDUIT CONTAINS:
(2) #12 P
(2) #12 N
(1) #12 G

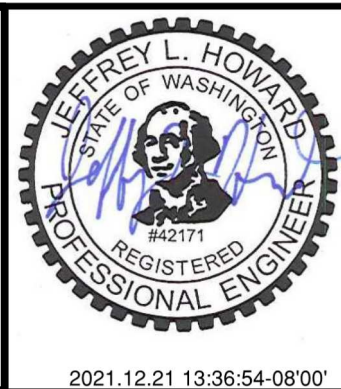
5 ALTERNATE OPTION: CONTRACTOR MAY INSTALL (4) 4-IN "SPARE" CONDUITS IN LIEU OF THE (2) 6-IN "SPARE" CONDUITS. MAKE ADJUSTMENTS TO WIREWAYS (PULL BOXES) AS REQUIRED. CONTRACTOR MAY TERMINATE (2) 4-IN "SPARE" CONDUITS PER WIREWAY OR USE (4) INDIVIDUAL WIREWAYS. WIREWAYS (PULL BOXES) TO BE SIZED PER NEC 314.28.



NO.	DATE	BY	REVISION
1	12/23/21	JLH	ADDENDUM NO. 1

NOTICE
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**CITY OF LACEY,
WASHINGTON
TERRY CARGIL
RESERVOIR
LACEY CONTRACT
#PW 2019-32**

PROJECT NO.: 19-2640 SCALE: AS SHOWN DATE: MAY 2021

ELECTRICAL DETAILS

SHEET
E-13
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CITY OF LACEY

Terry Cargil Reservoir

Addendum 1

Lacey Contract Number: PW 2019-32

Federal Aid Project Number:

WSDOT Contract Number:

TIB Contract Number:

Contract Proposal

DATE: _____

The undersigned, as bidder, has examined the bid documents as prepared by the Public Works Department, City of Lacey.

The undersigned, as bidder, proposes to furnish all material and perform all labor in accordance with the bid documents at the following prices.

Bidder must fill in unit prices in figures for each item and total.

Bidder shall sign this proposal form and submit all required paperwork with the bid.

A Water

No.	Quantity	Unit	Item ID	Item Description	Unit Price	Extended Price
A1	100000	MC	104-010	Minor Change	\$1.00	\$100,000.00
A2	1	LS	105-010	Record Drawing	\$5,000.00	\$5,000.00
A3	1	LS	109-010	Mobilization	LUMP SUM	
A4	1	LS	110-010	Project Temporary Traffic Control	LUMP SUM	
A5	1	LS	201-010	Clearing and Grubbing	LUMP SUM	
A6	1	LS	202-510	Removal of Structures and Obstructions	LUMP SUM	
A7	2464	TN	203-190	Gravel Borrow Incl. Haul		
A8	3824	CY	203-610	Excavation Incl. Haul		
A9	27	CY	203-615	Unsuitable Soils Area Excavation Incl. Haul		
A10	845	CY	203-810	Pond Excavation Incl. Haul		
A11	1	LS	205-510	Trench Safety System	LUMP SUM	
A12	760	SY	212-010	Construction Geotextile for Underground Drainage		
A13	5000	FA	214-506	Dewatering	\$1.00	\$5,000.00
A14	379	TN	404-010	Crushed Surfacing Base Course		
A15	379	TN	404-020	Crushed Surfacing Top Course		
A16	534	TN	504-011	HMA Cl. 1/2" PG 58H-22		
A17	46	LF	704-512	12 Inch Diameter Storm Sewer Pipe		
A18	161	LF	704-513	12 Inch Diameter D.I. Storm Sewer Pipe		
A19	222	LF	704-515	15 Inch Diameter Storm Sewer Pipe		
A20	6	EA	705-210	Catch Basin Type 1		
A21	1	EA	705-248	Catch Basin Type 2 - 48 In. Diam.		

A22	1	EA	705-450	Connection to Drainage Structure		
A23	1	EA	705-754	Catch Basin Type 2 - 54 In. Diam. Control Structure		
A24	1341	TN	708-610	Bank Run Gravel for Trench Backfill		
A25	16	HR	708-810	Utility Potholing		
A26	46	LF	709-512	12 Inch D.I. Water Main		
A27	276	LF	709-516	16 Inch D.I. Water Main		
A28	2	EA	709-950	Connect to Existing Water Main		
A29	2	EA	712-506	6 Inch Gate Valve		
A30	3	EA	712-512	12 Inch Gate Valve		
A31	3	EA	712-517	16 Inch Gate Valve		
A32	2	EA	714-510	Hydrant Assembly		
A33	1	LS	722-542	Electrical	LUMP SUM	
A34	192	SY	801-025	Stabilized Construction Entrance		
A35	276	LF	801-100	Silt Fence		
A36	0.5	AC	801-550	Seeding, Fertilizing, and Mulching		
A37	1	LS	801-680	Erosion/Water Pollution Control	LUMP SUM	
A38	370	CY	802-010	Topsoil Type A		
A39	1	LS	803-005	Irrigation System	LUMP SUM	
A40	1	LS	805-510	Lawn and Landscape Restoration	LUMP SUM	
A41	40	SY	806-510	6 Inch Cement Conc. Driveway Entrance		
A42	798	LF	812-510	Chain Link Fence, Vinyl Coated		
A43	1	EA	812-535	Double 16 Ft. Chain Link Gate, Vinyl Coated		
A44	6	TN	815-030	Hand Placed Riprap		
A45	1	LS	850-501	Restoration	LUMP SUM	
A46	7	EA	850-550	Bollard		
A47	1	LS	850-735	Startup	LUMP SUM	
A48	1	LS	850-792	Project Closeout	\$15,000.00	\$15,000.00
A49	1	LS	850-802	Standby Generator	LUMP SUM	
A50	1	LS	850-850	Reservoir Foundation	LUMP SUM	
A51	1	LS	850-860	Reservoir Mechanical	LUMP SUM	
A52	1	LS	850-866	Reservoir Finishes (Exterior)	LUMP SUM	
A53	1	LS	850-871	Reservoir Finishes (Interior)	LUMP SUM	
A54	1	LS	850-885	Reservoir Structure	LUMP SUM	
A55	1	LS	850-886	Reservoir Steel	LUMP SUM	
A56	225000	CALC	850-887	Steel Cost Adjustment	\$1.00	\$225,000.00
A57	1	LS	850-890	Reservoir Appurtenances	LUMP SUM	
A58	1	LS	850-895	Contractor Design	LUMP SUM	
A59	61	EA	8SH-854	Thuja Occidentalis 'woodwardii' (Ward Arborvitae)		
A60	6	EA	8TR-769	Calocedrus Decurrens (Incense Cedar)		

Schedule A Subtotal: _____

Tax Rate (%) : 9.40 Tax: _____

Schedule A Total: _____

Contract Total: _____
(All Schedules)

The undersigned also agrees as follows:

- Within 10 calendar days after the contract is awarded to sign and return the contract and provide insurance documents.
- That this proposal cannot be withdrawn within 45 days after receipt of bids.
- That it is the understanding that the City of Lacey may accept or reject any or all bids.
- The undersigned hereby agrees to pay for labor not less than the prevailing rates of wages per the bid documents.
- Enclosed with this proposal is a bid deposit in the sum of 5% of the bid total amount which it is agreed shall be collected and retained by the City of Lacey as liquidated damages in the event this proposal is accepted by the City of Lacey with 45 calendar days after the receipt of bids and the undersigned fails to execute the contract and the required bond with the City of Lacey, under the conditions thereof, within 10 calendar days after the undersigned is notified that said proposal has been accepted, otherwise said bid deposit shall be returned to the undersigned upon demand.
- A Performance/Payment Bond will be furnished to the City with the contract.
- Retention will be held on this contract per RCW 60.28.011.

Addenda Receipt Acknowledged

Signature of Bidder

Date

(If an Individual, Partnership, or Non-Incorporated organization)

Firm Name

Please Print

Phone

Address of Bidder: _____

Name and Address of Firm Members:

Signature of Bidder (if a Corporation)

Title: _____

Firm Name: _____ Phone: _____

Business Address: _____

Incorporated under the Laws of the State of _____

Officers Address

President: _____

Secretary: _____

Treasurer: _____