

TOWN OF MONUMENT - WATERLINE AND STORAGE TANK

SITE DEVELOPMENT PLANS

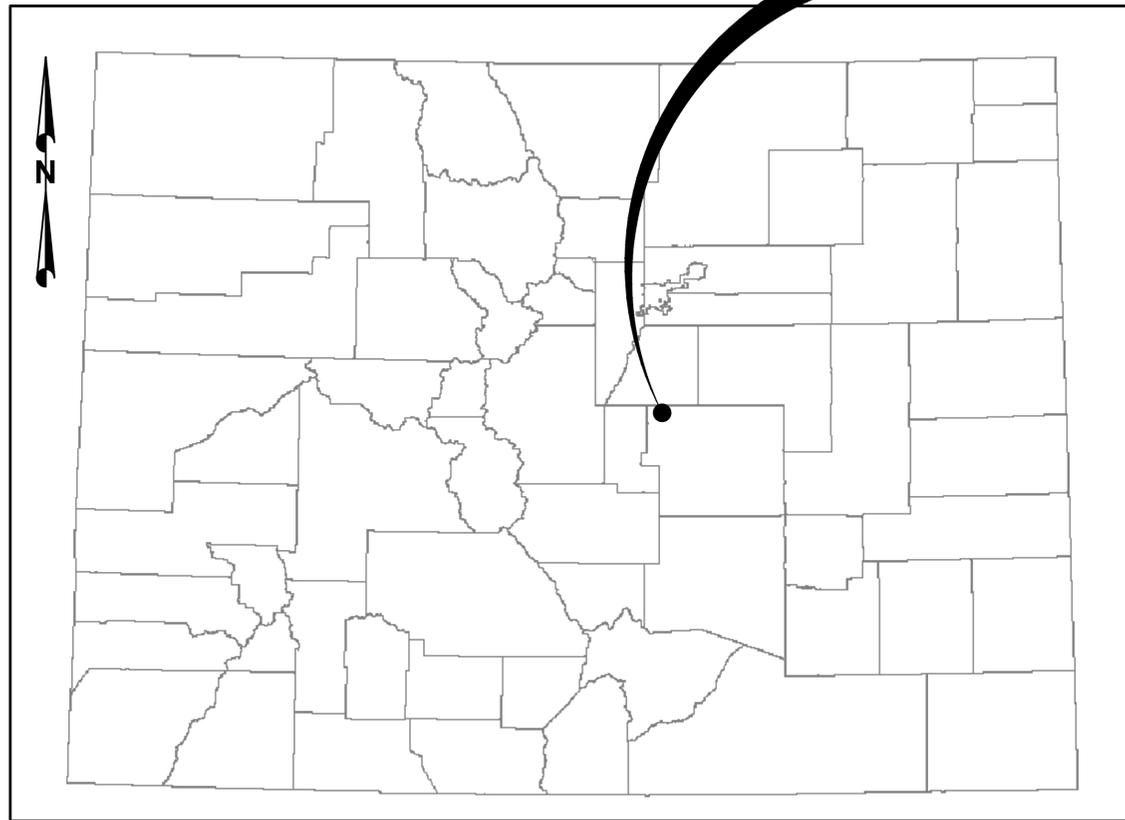
LOT 6, FOREST VIEW ESTATES FILING NO. 4

TOWN OF MONUMENT

2.0 MG WATER STORAGE TANK

MONUMENT COLORADO

PROJECT LOCATION



PROJECT LOCATION MAP

N.T.S.

SHEET INDEX

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TS 103	LANDSCAPING PLAN
E01	ELECTRICAL LEGEND
E02	ELECTRICAL ONE-LINES
E03	ELECTRICAL SITE PLAN

OWNER: TOWN OF MONUMENT

CONTACT: TOM THARNISH, PUBLIC WORKS DIRECTOR
PHONE: 719-884-8039
EMAIL: TTHARNISH@TOMGOV.ORG

APPLICANT: TOWN OF MONUMENT

PLAN PREPARER: FORSGREN ASSOCIATES, INC.
CONTACT: JAMES ADAMS, PE
PHONE: 720-214-5884
EMAIL: JADAMS@FORSGREN.COM

PROPERTY ADDRESS: 744 FOREST VIEW WAY,
MONUMENT, CO 80132

PROPERTY TAX SCHEDULE NUMBER: 7116204006

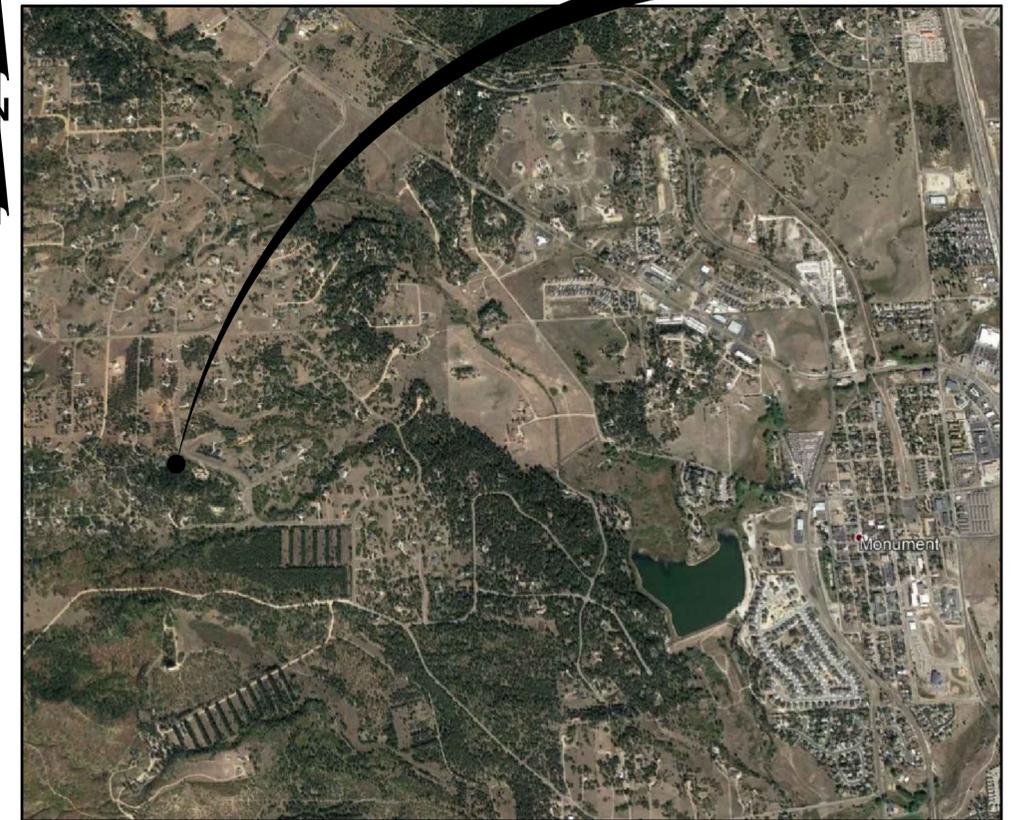
LEGAL DESCRIPTION: LOT 6 FOREST VIEW ESTATES IV.

LOT/PARCEL SIZE: 2.55 ACRES

EXISTING/PROPOSED LAND USE AND ZONING: RR-2.5

TOTAL GROSS BUILDING SQUARE FOOTAGE: TANK
SQUARE FOOTAGE = APPROX. 11,120 SF

PROJECT AREA



VICINITY MAP

N.T.S.

FA PROJECT NO.
01-18-0124

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

James Adams
JAMES ADAMS, PE #38375

4/21/22
DATE



OWNER/DEVELOPER'S STATEMENT:

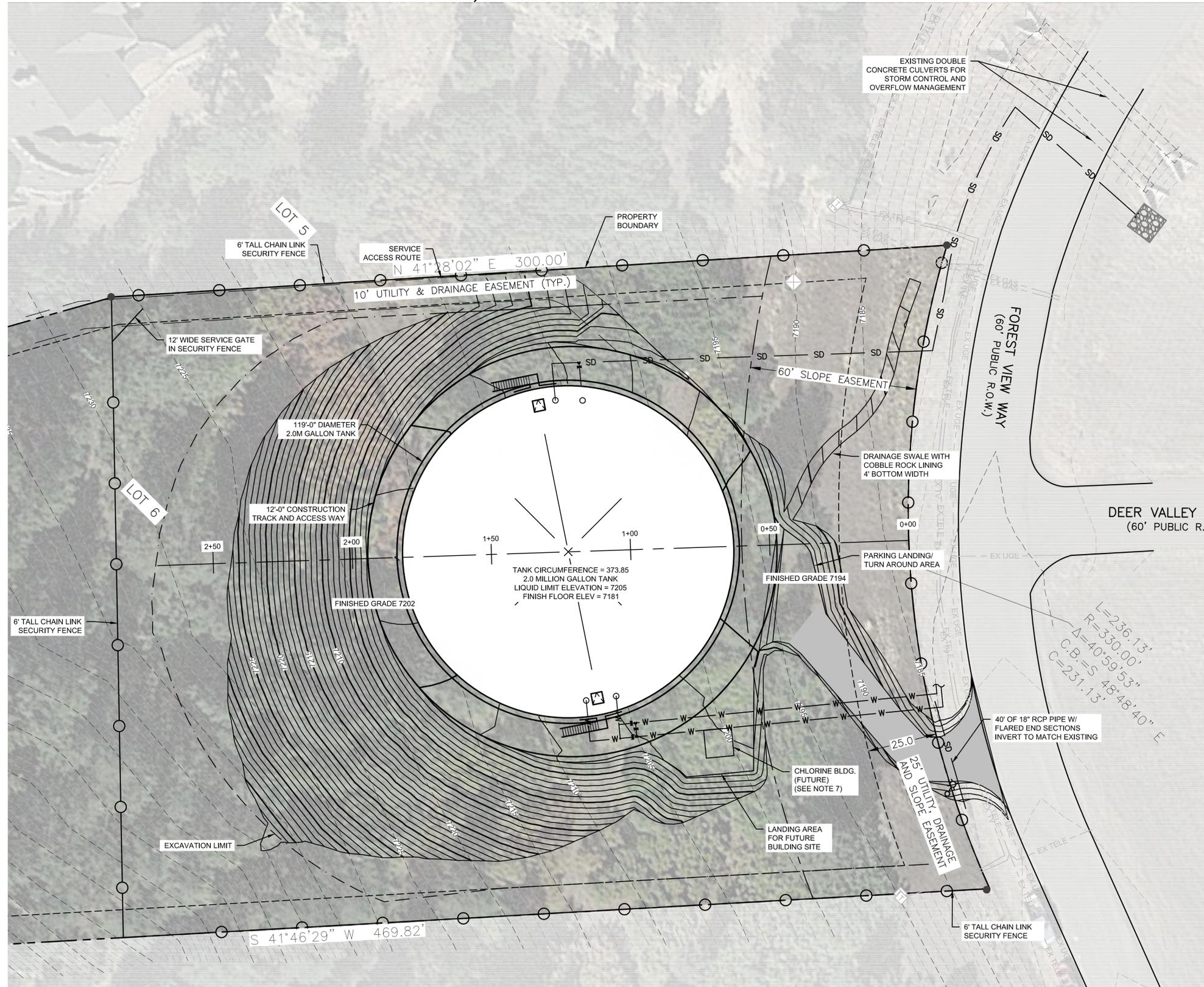
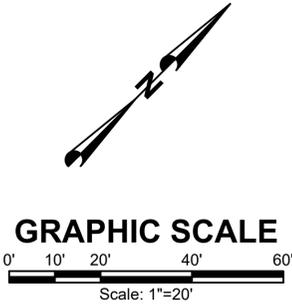
I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Thomas A. Tharnish
TOM THARNISH, PUBLIC WORKS DIRECTOR
TOWN OF MONUMENT
845 BEACON LITE RD, MONUMENT, CO 80132

DATE



**TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4**



GRADING NOTES

- GRADING SHOWN ON PLAN REFLECTS THE EXISTING AND FINISHED GRADE FOR THE TANK SITE.
- TEMPORARY EXCAVATIONS FOR CONSTRUCTION OF THE TANK AND ASSOCIATED UTILITIES SHALL FOLLOW RECOMMENDATION OF THE GEOTECHNICAL REPORT PREPARED BY NINYO & MOORE DATED NOVEMBER 18, 2016.
- FINISHED GRADES SHALL NOT EXCEED A 2 HORIZONTAL TO 1 VERTICAL SLOPE UNLESS SPECIFICALLY AGREED TO IN WRITING BY THE ENGINEER FOR LIMITED LOCATIONS ON THE SITE WHERE EXPOSED ROCK MAY ALLOW A STEEPER SLOPE AND WHERE NECESSARY TO CATCH THE EXISTING SURFACE.
- SITE RESTORATION SHALL CONSIST OF PLACEMENT/REPLACEMENT OF 4" MINIMUM DEPTH TOPSOIL OVER LOOSELY COMPACTED SUB-SURFACE MATERIAL.
- TOPSOIL SHALL BE COVERED BY A DOUBLE NET STRAW/COCONUT BLANKET WITH BIODEGRADABLE NETTING. BLANKET SHALL BE INSTALLED AND ANCHORED PER MANUFACTURER RECOMMENDATIONS.
- HYDROSEED WITH APPROVED NATIVE GRASS MIX.
- BUILDING HAS NOT BEEN DESIGNED. ESTIMATED FOOTPRINT BUILDING IS 10'X10'.

NO.	REVISIONS	BY	DATE

FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

PROJECT NO.	
DRAWN	
DESIGNED	
APPROVED	
DATE	



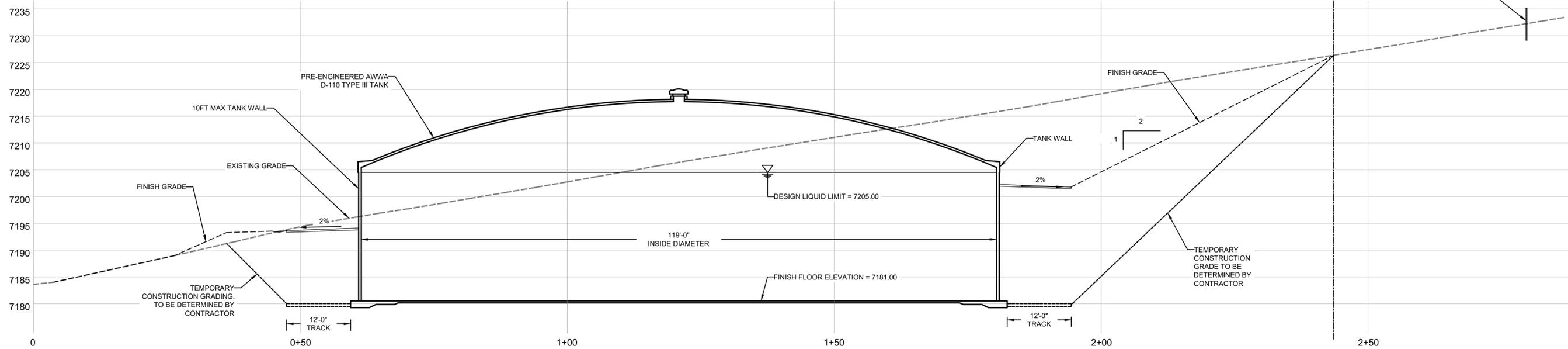
**2.0M GALLON TANK
SITE GRADING PLAN**

SHEET NO:	TS 101
DATE:	JAN, 2022
PAGE NO:	3 OF 8

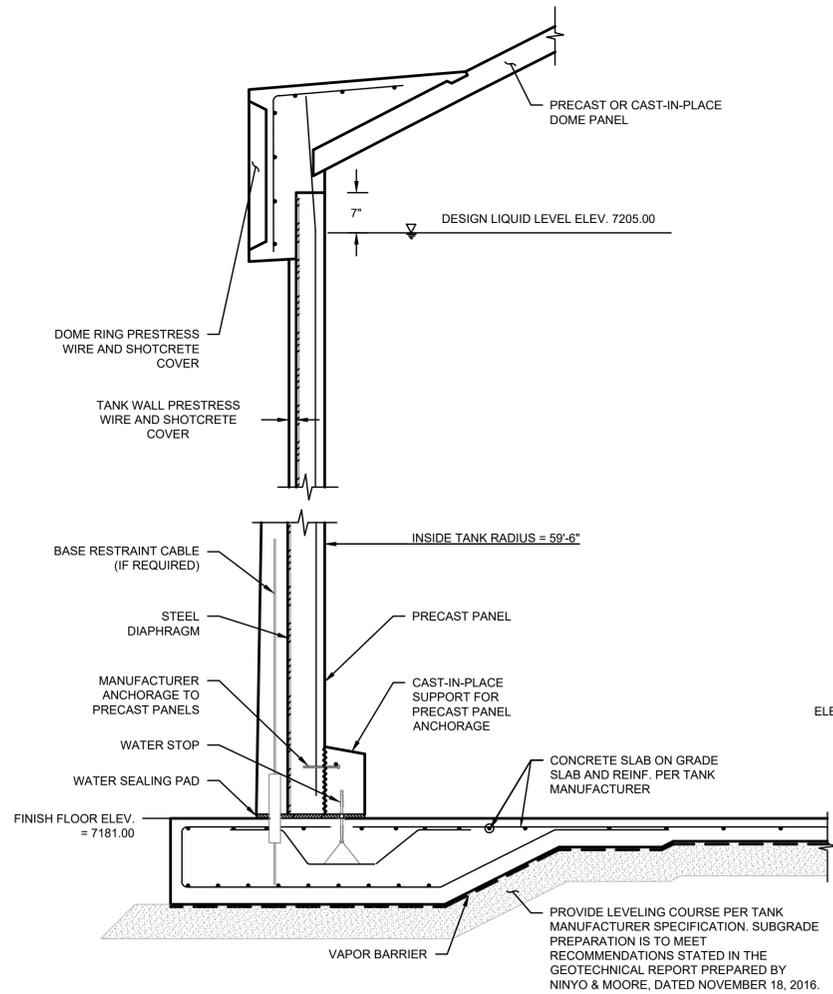
TANK SITE GRADING PLAN
SCALE: 1"= 20'

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\ENGINEERING DRAWINGS\TANK\TANK GRADING PLAN SITE DEVELOPMENT PLANS.dwg - 1/31/2022 9:19 AM

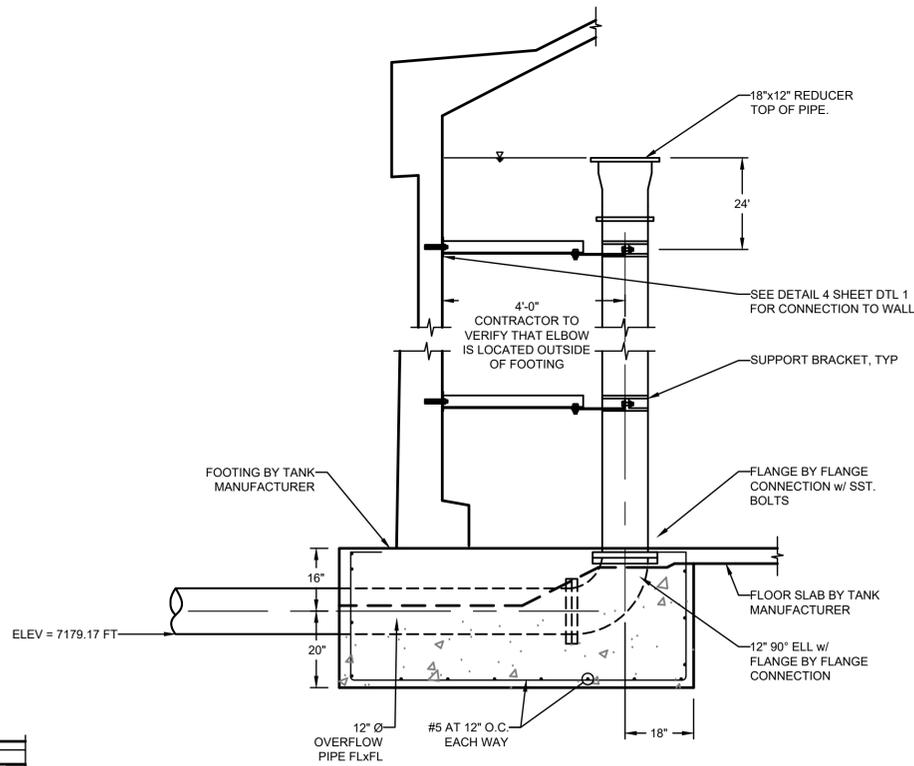
**TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4**



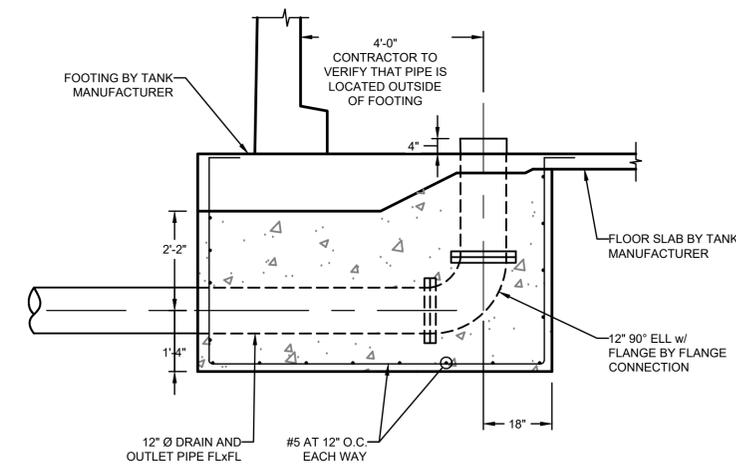
TANK PROFILE
SCALE: 1" = 10'



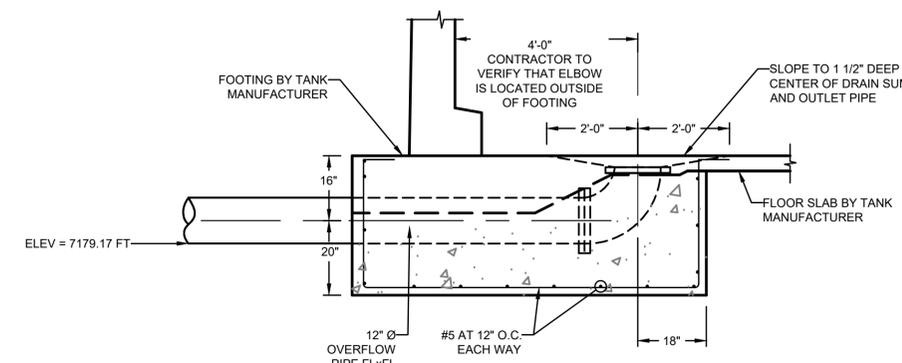
TANK WALL SECTION
SCALE: 3/4" = 1'-0" 1



TANK OVERFLOW PIPE
SCALE: 1/2" = 1'-0" 2



TANK OUTLET PIPE
SCALE: 1/2" = 1'-0" 3



TANK DRAIN PIPE
SCALE: 1/2" = 1'-0" 4

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NO.	REVISIONS	BY	DATE

FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

PROJECT NO.	DRAWN	DESIGNED	APPROVED	DATE

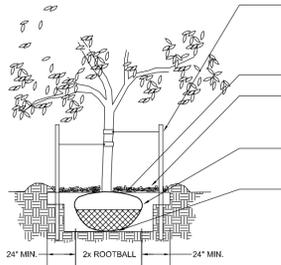


2.0M GALLON TANK
TANK PROFILE

SHEET NO:
TS 102
DATE:
JAN, 2022
PAGE NO:
4 OF 8

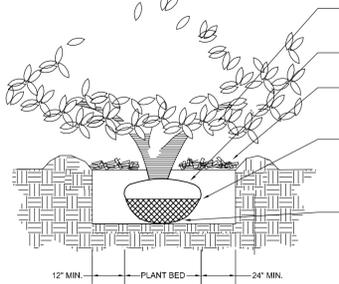
PCD FILE NO. PPR-21-30

- NOTES:**
- DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - AVOID FALL PLANTING IF POSSIBLE.
 - AMENDED BACKFILL SHALL BE 80% SOIL FROM PLANTING PIT AND 20% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.
 - STAKING POST SHALL BE 1 1/2" DIA. TREATED WOOD STAKE. METAL POST WILL NOT BE APPROVED.



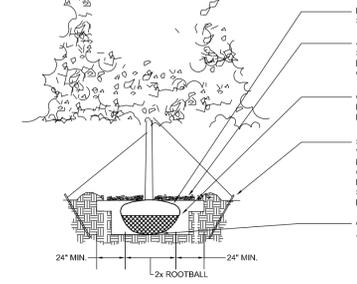
1 A DECIDUOUS TREE PLANTING DETAIL N.T.S.

- NOTES:**
- PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
 - AMENDED BACKFILL SHALL BE 70% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.

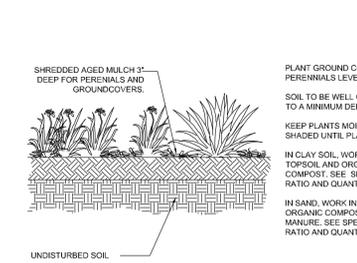


3 C SHRUB PLANTING DETAIL N.T.S.

- NOTES:**
- DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - AVOID FALL PLANTING IF POSSIBLE.
 - AMENDED BACKFILL SHALL BE 70% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.



2 B EVERGREEN TREE PLANTING DETAIL N.T.S.



4 D PERENNIAL/GROUND COVER PLANTING DETAIL N.T.S.

HATCH LEGEND

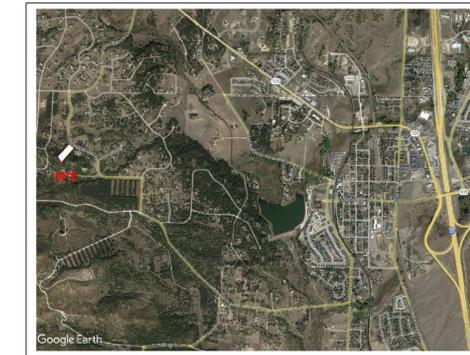
TURF (KENTUCKY BLUE GRASS (THERMAL BLUE BLEND))	0 sf
4-8" COBBLE	0 sf
2-4" COBBLE	0 sf
ORGANIC MULCH	0 sf
NATIVE SEED MIX PAWNEE BUTTES SEED (NATIVE PRAIRIE MIX) 29% Blue Grama 25% Buffalograss 20% Western Wheatgrass 20% Sideoats Grama 5% Green Needlegrass 1% Sand Dropped	16,199 sf

KEYED NOTES: (not all items labeled, items labeled considered typ.)

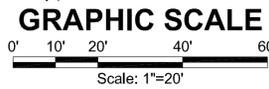
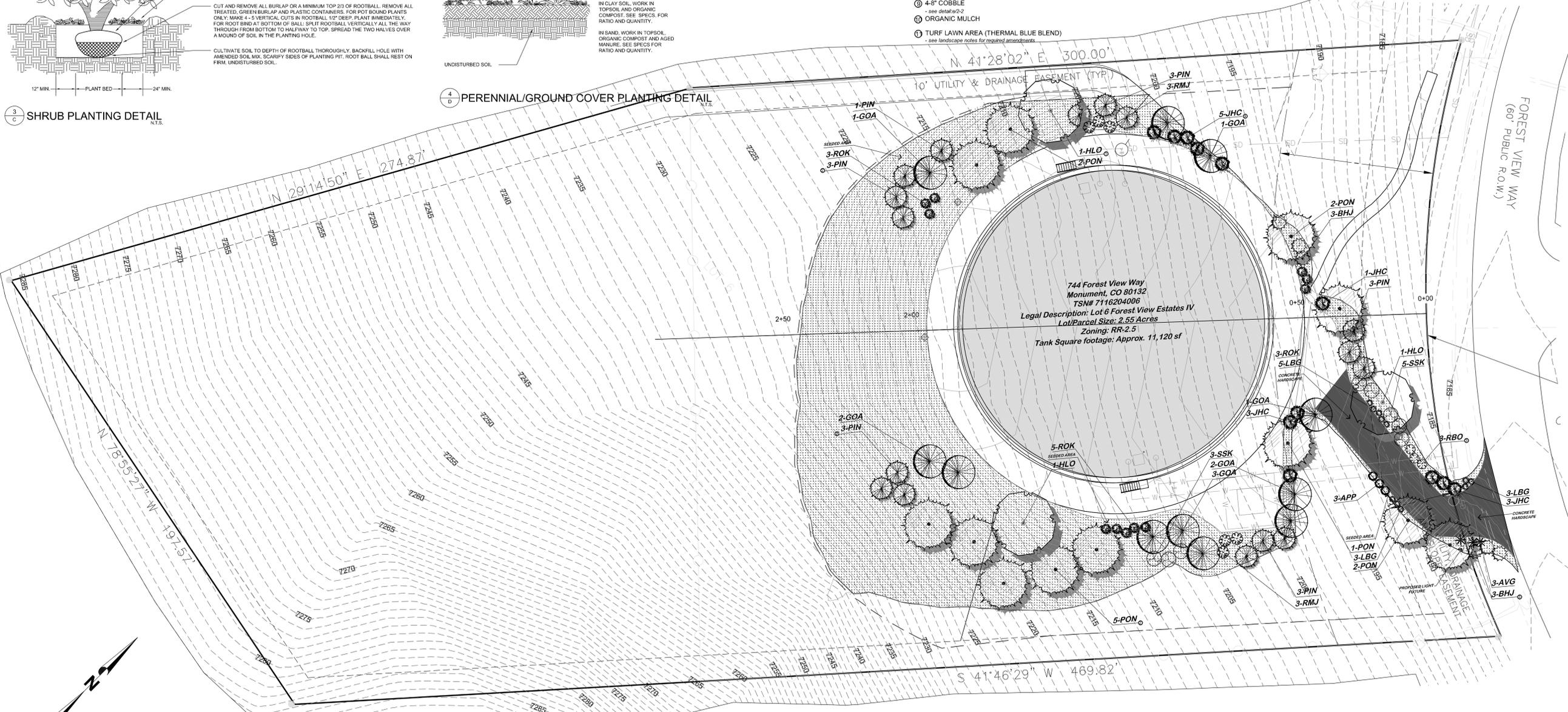
- 1 TYPICAL DECIDUOUS TREE PLANTING - see detail 2-2
- 2 TYPICAL EVERGREEN TREE PLANTING - see detail 2-2
- 3 TYPICAL SHRUB PLANTING - see detail 2-2
- 4 TYPICAL GROUNDCOVER/PERENNIAL PLANTING - see detail 2-2
- 5 LANDSCAPE BOULDER - see detail 2-2
- 6 STEEL EDGE - see detail 2-2
- 7 2-4" BLUE GREY GRAVEL MULCH - see detail 2-2
- 8 SCREEN WALL - see architectural plans
- 9 4-8" COBBLE - see detail 2-2
- 10 ORGANIC MULCH - see detail 2-2
- 11 TURF LAWN AREA (THERMAL BLUE BLEND) - see landscape notes for required amendments

LANDSCAPE PLANT SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	MATURE SIZE	PLANTING SIZE	NOTES
DECIDUOUS TREES						
GOA	12	Quercus garbinifolia	Stylized Honeylocust	40' x 30'	2" Caliber	Ball and Burlap
POW	12	Pinus ponderosa	Ponderosa Pine	40' x 20'	15 Gallon	Ball and Burlap
EVERGREEN TREES						
POW	12	Pinus ponderosa	Ponderosa Pine	40' x 20'	15 Gallon	Ball and Burlap
DECIDUOUS SHRUBS						
RBO	3	Ribes deflexum	Boulder Raspberry	4' x 5'	5 Gallon	Container
ROK	11	Rhododendron	Rock Spire	4' x 4'	5 Gallon	Container
APF	3	Amelanchier alnifolia	Almond Flower	3' x 3'	5 Gallon	Container
SSK	8	Saxifraga	Saxifrage	12" x 8"	5 Gallon	Container
EVERGREEN SHRUBS						
RMT	8	Rhododendron	Rock Spire	4' x 4'	5 Gallon	Container
JUN	4	Juniperus	Juniper	12' x 4'	15 Gallon	Container
UC	12	Juniperus chinensis	Chinese Juniper	4' x 4'	5 Gallon	Container
ORNAMENTAL GRASSES						
LBO	11	Lolium	Lolium	2' x 2'	1 Gallon	Container
AVG	3	Andropogon	Andropogon	3' x 3'	1 Gallon	Container



VICINITY MAP



GENERAL NOTES:

- Contractor shall design and install a temporary irrigation system in accordance with section 32.80.00.
- A temporary irrigation system shall be installed to establish all newly planted vegetation.
- The irrigation system shall conform to all irrigation standards and shall provide adequate supplemental water for all of the new planting material to flourish and grow without supplemental water after a growing season.

Applicant: Town of Monument

Plan Preparer: Forsgren Associates, Inc.
Contact: James Adams, PE
Phone: 720-214-5884
Email: jadams@forsgren.com

OWNER INFO
company name: Town of Monument
address: 645 Beacon Lite Road
city/state: Monument, CO 80132
phone no: 719-884-8039



YOW ARCHITECTS PC
ARCHITECTURE & PLANNING
115 S. Weber
Colorado Springs, Colorado 475-8133

Structural: _____
Electrical: _____
Mechanical: _____
Plumbing: _____

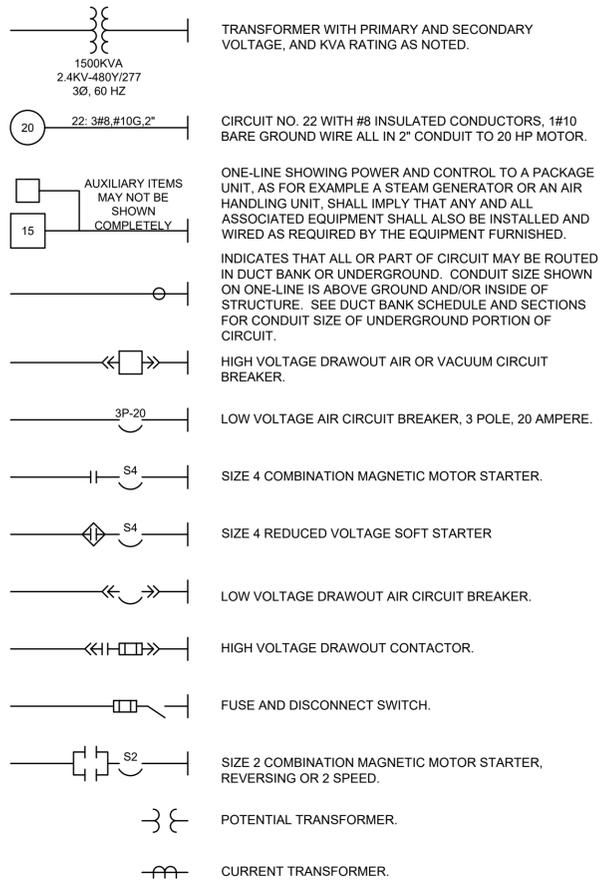
Town of Monument
Waterline & Storage Tank
744 Forest View Way
Monument, Colorado 80923

Job No. 20.008
Directory: Landscape
File: LANDSCAPING PLAN
13-03-2020
Drawn By: DCM
Date: 8/23/2021
Revised: _____

DRAWING NO.
1 of 1
FINAL LANDSCAPE PLAN

PCD FILE NO. PPR-21-30

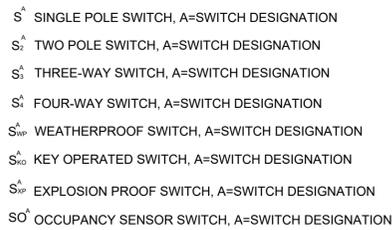
ONE LINE DIAGRAM LEGEND



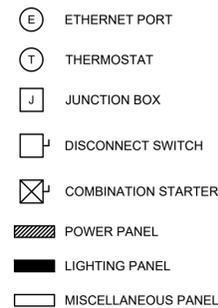
SCHEMATIC SYMBOLS



SWITCH & OUTLET SYMBOLS



MISCELLANEOUS SYMBOLS



ABBREVIATIONS

A	AMBER, AMPERE, ALARM	RECP	RECEPTACLE
AC	ALTERNATING CURRENT	RGS	RIGID GALVANIZED STEEL
AFD	ADJUSTABLE FREQUENCY DRIVE	RTD	RESISTANCE TYPE TEMP DETECTOR
AFF	ABOVE FINISHED FLOOR	RTU	REMOTE TERMINAL UNIT
AM	AMMETER	RVSS	REDUCED VOLTAGE SOLID STATE STARTER
ATO	AUTOMATIC THROUOVER	S2	SIZE 2 STARTER
AWG	AMERICAN WIRE GAUGE	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
C	CLOSE, COUNTER, CONTACTOR	SP	SINGLE POLE
CAP	CAPACITOR	SPDT	SINGLE POLE DOUBLE THROW
CB	CIRCUIT BREAKER	SPST	SINGLE POLE SINGLE THROW
CD	CONTROL DAMPER	SS	SELECTOR SWITCH
CKT	CIRCUIT	SV	SOLENOID VALVE
CL2	CHLORINE	SWB	SWITCHBOARD
CP	CONTROL PANEL	SWGR	SWITCHGEAR
CPT	CONTROL POWER TRANSFORMER	T	THERMOSTAT, TIMER, TOTALIZER
CS	CONTROL STATION	TACH	TACHOMETER
CT	CYCLE TIMER, CURRENT TRANSFORMER	TB	TERMINAL BLOCK
CTM	CYCLE TIMER MOTOR	TD	TIME DELAY RELAY
2/C	2 CONDUCTOR	TEMP	TEMPERATURE
4"C	4" CONDUIT	TQ	TORQUE
DC	DIRECT CURRENT	TS	TEMPERATURE SWITCH
DM	DAMPER MOTOR, DEMAND METER	UG	UNDERGROUND
DPDT	DOUBLE POLE DOUBLE THROW	UPS	UNINTERRUPTIBLE POWER SUPPLY
DPST	DOUBLE POLE SINGLE THROW	V	VOLTS
DPS	DIFFERENTIAL PRESSURE SWITCH	VA	VOLT AMPERE
DS	DISCONNECT SWITCH	VLS	VALVE LIMIT SWITCH
E	ELECTRIC OPERATOR FOR CONTROL DAMPER OR VALVE	VM	VOLTMETER
EMH	ELECTRICAL MANHOLE	WH	WHITE, WATTS
ETM	ELAPSED TIME METER	WM	WATTHOUR METER
EX	EXISTING	WP	WEATHERPROOF
F	FORWARD	XFMR	TRANSFORMER
FS	FLOW SWITCH	XP	EXPLOSION PROOF
G	GREEN, GROUND	Y	YELLOW
GF1	GROUND FAULT INTERRUPTER	Z	AUXILIARY RELAY
GLS	GEARED LIMIT SWITCH	ZS	POSITION SWITCH
#G	#8 GROUND WIRE		
H	HIGH, HUMIDISTAT		
HH	HANDHOLE		
HMT	HIGH MOTOR TEMPERATURE		
HOA	HAND-OFF-AUTO		
HOR	HAND-OFF-REMOTE		
HP	HORSEPOWER		
HWCO	HIGH WATER CUTOFF		
HZ	HERTZ (CYCLE)		
I/O	INPUT/OUTPUT		
J	JUNCTION BOX		
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KVAR	KILOVAR		
KW	KILOWATT		
KWH	KILOWATT HOUR		
L	LOW, LEVEL		
LA	LIGHTNING ARRESTOR		
LAN	LOCAL AREA NETWORK		
LP	LIGHTING PANEL		
LS	LIMIT SWITCH, LEVEL SWITCH		
LWCO	LOW WATER CUTOFF		
M	MAGNETIC MOTOR STARTER		
MA	MILLIAMPERE		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MCM	THOUSAND CIRCULAR MIL		
MD	MOISTURE DETECTOR		
MH	MANHOLE, MOUNTING HEIGHT		
MOV	MOTOR OPERATED VALVE		
MS	MANUAL MOTOR STARTER		
MSH	MOTOR SPACE HEATER		
N	NEUTRAL		
NC	NORMALLY CLOSED		
NO	NORMALLY OPEN, NUMBER		
O	OPEN		
OL	OVERLOAD		
PB	PUSH BUTTON, PULL BOX		
PF	POWER FACTOR METER		
PH	PHASE (CHEMICAL TERM)		
PLC	PROGRAMMABLE LOGIC CONTROLLER		
PP	POWER PANEL		
PS	PRESSURE SWITCH		
PT	POTENTIAL TRANSFORMER, PROGRAM TIMER		
2P	2 POLE		
R	RED, RAISE, RELAY, REVERSE		

AREA DESIGNATIONS

THE SPECIAL AREA DESIGNATION BOXES, AS DEFINED BELOW, ARE LOCATED ON THE PLAN DRAWINGS TO DEFINE ELECTRICAL INSTALLATION REQUIREMENTS. DESIGNATION BOXES ARE LOCATED WITHIN ROOM OR BELOW ROOM NUMBER. ALL INDOOR AREAS NOT INDICATED OTHERWISE ARE AREA TYPE 1 AND MINIMUM NEMA TYPE 1 ENCLOSURES.

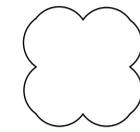
AREA TYPE 1	INDOOR AND DRY AREA. REQUIRES MINIMUM NEMA TYP 1 ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITTINGS IN CONDUIT SYSTEMS.
AREA TYPE 1A	CORROSIVE CHEMICAL FEED AND STORAGE ROOMS. CONDUIT SYSTEM SHALL BE EXPOSED PVC COATED CONDUIT WITH FITTINGS, AND ACCESSORIES.
AREA TYPE 4	INDOOR WET LOCATIONS SUCH AS VAULTS, HOSEDOWN AREAS, BASEMENTS, ETC. MINIMUM NEMA TYPE 4 ENCLOSURE FOR EQUIPMENT AND GASKETED FITTINGS IN A CONDUIT SYSTEM.
AREA TYPE 7A	CLASS 1, DIVISION 1 AREA AS DEFINED BY NEC. ALL EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.
AREA TYPE 7B	CLASS 1, DIVISION 2, GROUP C AND D (METHANE, GASOLINE) AS DEFINED BY NEC. EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.
AREA TYPE 12	INDOOR, DRY, DIRTY AREA. REQUIRES MINIMUM NEMA TYPE 12 GASKETED ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITTINGS IN CONDUIT SYSTEMS.
AREA TYPE 4X	OUTDOOR AND INDOOR WET LOCATIONS SUBJECT TO CORROSION. CONDUIT SYSTEM SHOULD BE PVC COATED RIGID GALVANIZED STEEL WITH PVC COATED FITTINGS, BOXES, AND STAINLESS STEEL HARDWARE.

GENERAL REQUIREMENTS

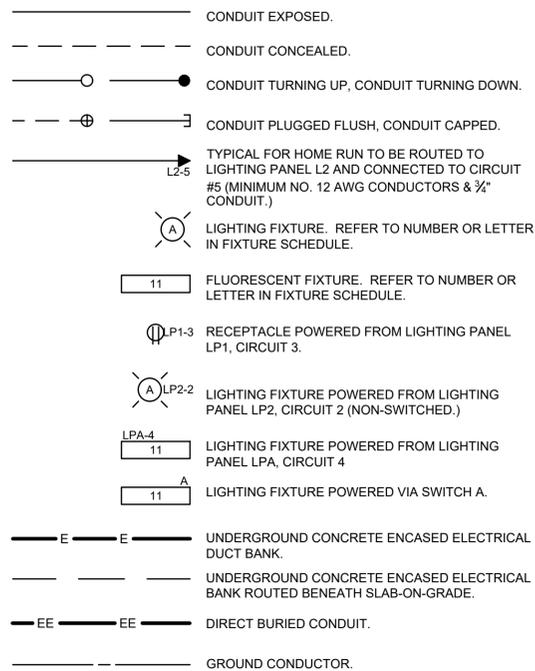
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND HOME-RUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.
- SPARE WIRES SHALL BE TAPED AND COILED.
- IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CABLE CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPERLY SIZED STARTER OVERLOADS FOR EQUIPMENT FURNISHED.
- LIGHTING AND RECEPTACLE CIRCUITS DESIGNATED ON THE FLOOR PLANS ARE NOT SHOWN ON THE ONE-LINES. CONDUCTORS FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM NO. 12 AWG. CONDUIT FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM 3/4".
- IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT.

GENERAL NOTES

- SOLID LINES — INDICATE NEW WORK OR EQUIPMENT.
- DOTTED LINES . . . INDICATE EXISTING WORK OR EQUIPMENT.
- DASHED LINES - - - INDICATE FUTURE WORK OR EQUIPMENT.
- THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
- INFORMATION RELATED TO CIRCUIT IDENTIFICATION, WIRE & CONDUIT SIZES, AND ROUTING, IS ON THE FOLLOWING DRAWING TYPES.
 - ONE-LINE DIAGRAMS SHOW CIRCUIT IDENTIFICATION, WIRE QUANTITY AND SIZES, AND CONDUIT SIZE WITHIN STRUCTURES. ONE-LINE DIAGRAMS ALSO INDICATE ORIGIN AND DESTINATION OF CIRCUITS, AND IDENTIFY CIRCUITS ROUTED UNDERGROUND.
 - FOR CIRCUITS WITHOUT UNDERGROUND PORTIONS, BUILDING FLOOR PLANS SHOW LOCATION OF EQUIPMENT FOR DETERMINING CIRCUIT LENGTH WITHIN THE STRUCTURE. FOR CIRCUITS WITH UNDERGROUND PORTIONS, ANTICIPATED PENETRATION OF UNDERGROUND CONDUITS ARE SHOWN ON STRUCTURE PLANS FOR DETERMINING THE LENGTH OF IN-STRUCTURE PORTIONS OF CIRCUITS. BUILDING FLOOR PLANS MAY ALSO SHOW HOME RUNS FOR LIGHTING, RECEPTACLE, AND OTHER MISCELLANEOUS EQUIPMENT CIRCUITS.
 - SITE PLANS INDICATE THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS. CIRCUITS ROUTED IN UNDERGROUND CONDUITS OR DUCT BANKS ARE INDICATED IN DUCT BANK SECTIONS REFERENCED ON THE SITE PLAN.
 - DUCT BANK SECTIONS AND SCHEDULES IDENTIFY CONDUIT SIZE, CONDUIT MATERIAL, ARRANGEMENT OF THE UNDERGROUND CONDUITS, AND CIRCUITS ROUTED IN EACH UNDERGROUND CONDUIT.
- CLOUDED MARKINGS INDICATE WORK IN EXISTING AREAS THAT IS NEW OR NEW WORK ON AN EXISTING PIECE OF EQUIPMENT.



CONDUIT & WIRING INSTALLATION LEGEND

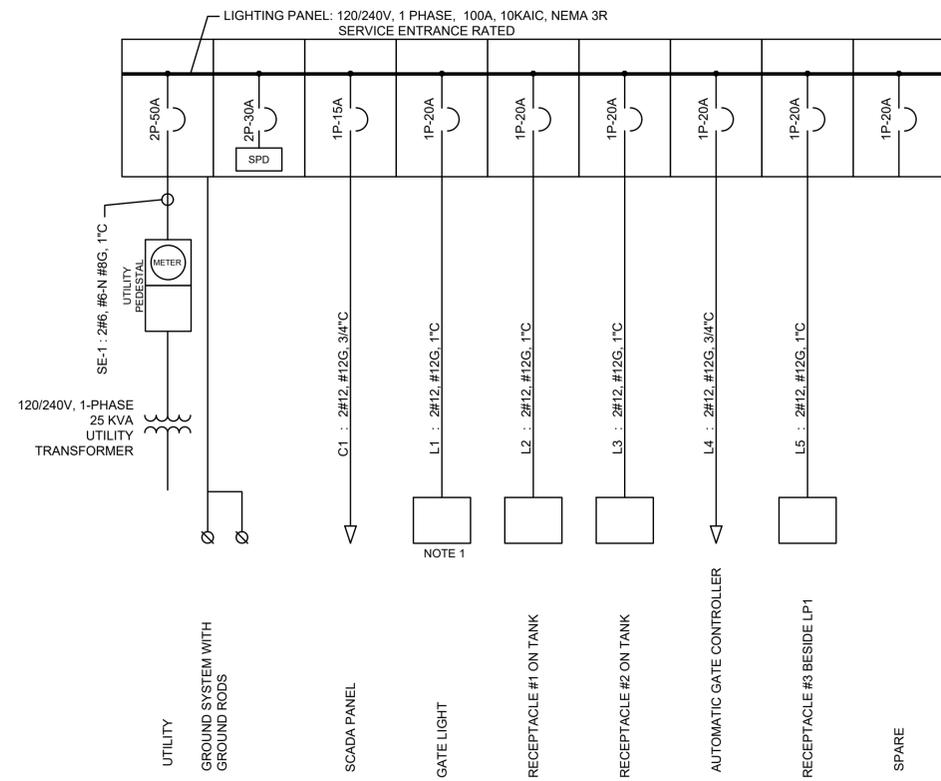


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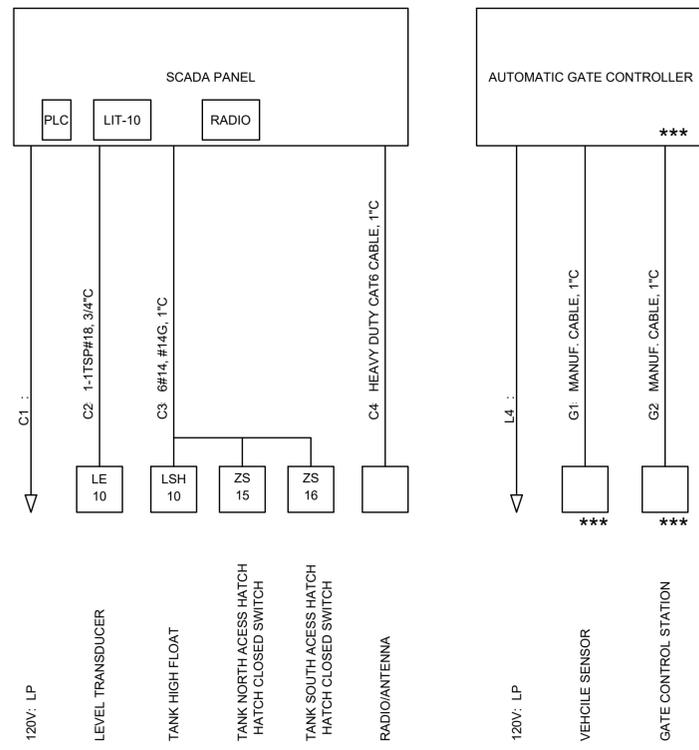
ISSUED FOR BID							PROJECT NO. 04-20-0163
DRAWN	DLE	DESIGNED	DLE	APPROVED	CLR	DATE	BY
2.0M GALLON TANK							REVISIONS
ELECTRICAL - LEGEND							NO.
SHEET NO. E01							DATE
DATE: MAY 2021							BY
PAGE NO. OF							DATE

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PH: 720.232.6644



SERVICE ENTRANCE & LIGHTING PANEL ONE-LINE DIAGRAM



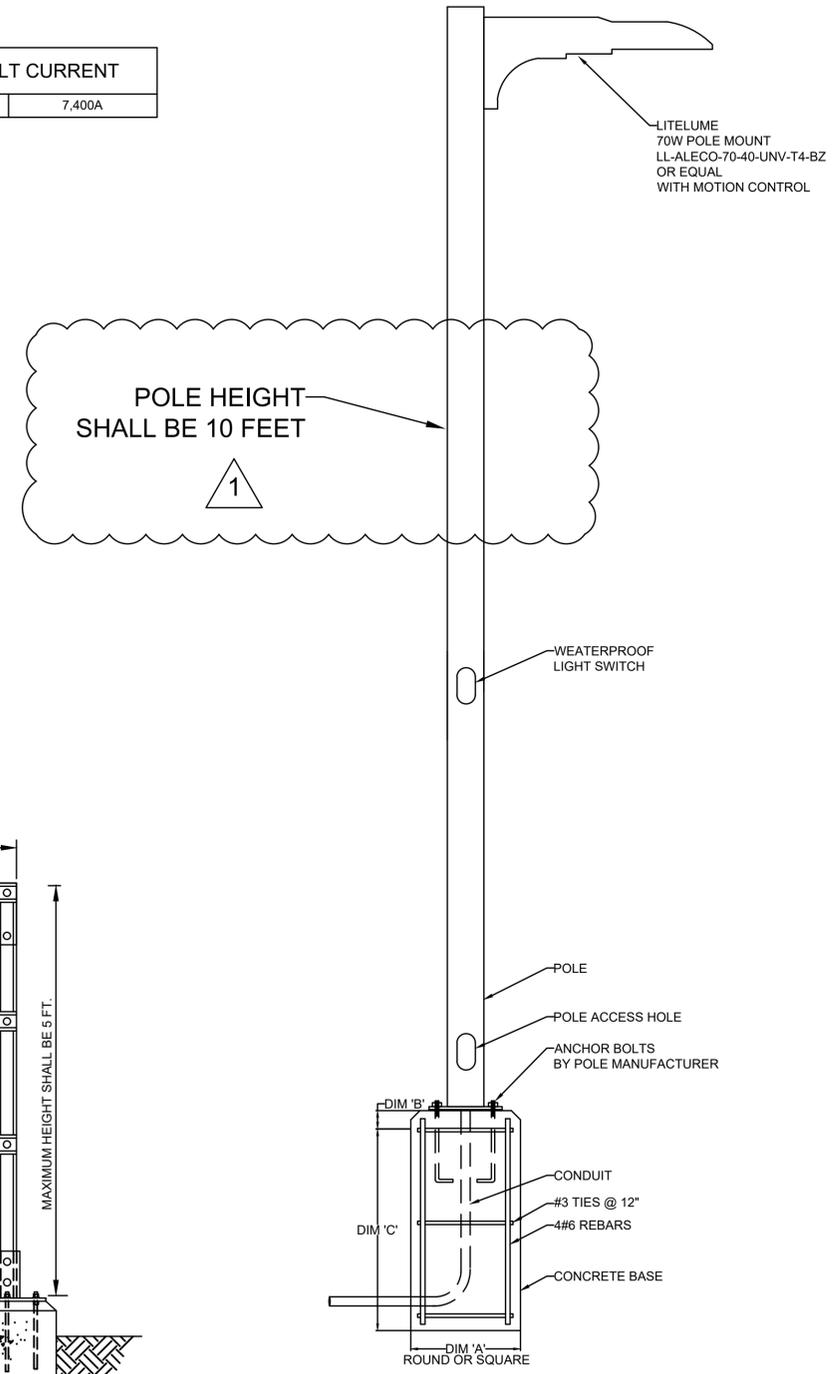
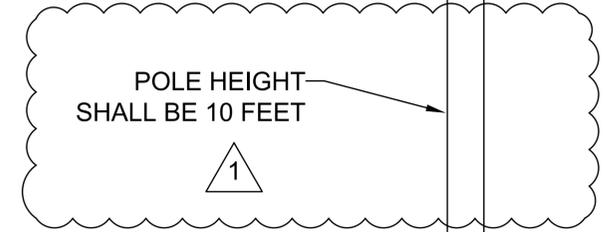
SCADA PANEL ONE-LINE DIAGRAM

AUTOMATIC GATE CONTROLLER ONE-LINE DIAGRAM

NOTES:

1. THE GATE LIGHT SHALL BE PROVIDED WITH AN ON/OFF SWITCH AND A MOTION SENSOR. IN THE 'ON' POSITION THE MOTION SENSOR SHALL CONTROL THE LIGHT, IN THE 'OFF' POSITION, THE LIGHT SHALL BE OFF.
2. *** - PROVIDED BY GATE SYSTEM PROVIDER.

FAULT CURRENT	
UTILITY	7,400A

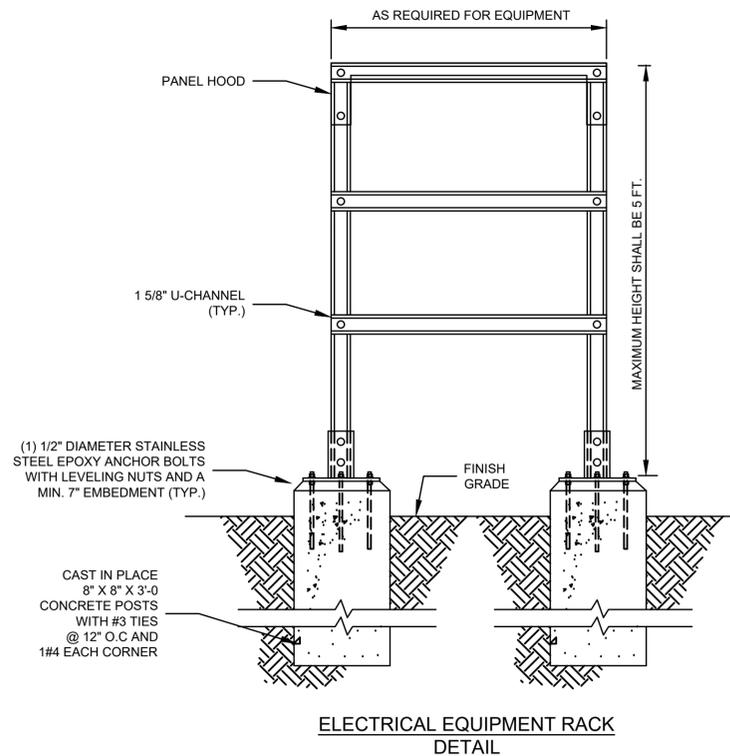


LIGHT POLE FOUNDATION DETAIL

DIMENSIONS			
A	B	C	POLE LENGTH
1'-0"	2"	3'-0"	10' TO 12'
1'-6"	2"	4'-0"	12' TO 20'
2'-0"	2"	5'-0"	20' TO 40'

SEE SHEET E3 FOR PHOTOMETRIC INFORMATION

NAME:		LP1	BUS:	COPPER	MAINS:		2P-50A			
SERVICE		120/240 VAC	RATING:	100A	LOCATION:		TANK SITE			
MOUNTING		SURFACE, NEMA 3R	AIC RATING:	10KAIC						
V.A.								V.A.		
A	B	LOAD	PHASE	BREAKER	CIRCUIT NUMBER	BREAKER	PHASE	LOAD	A	B
150		SCADA PANEL	1	20	1 2	20	1		0	
	80	GATE LIGHT	1	20	3 4	20	1			0
180		RECPT #1 - ON TANK	1	20	5 6	20	1		0	
	180	RECPT #2 - ON TANK	1	20	7 8	20	1			0
180		RECPT #3 - BY LP	1	20	9 10	20	1		0	
	750	GATE POWER	1	20	11 12	20	1			0
0			1	20	13 14	20	1		0	
	0		1	20	15 16	20	1			0
0			1	20	17 18	20	1		0	
510	1010	TOTALS PER PHASE PER SIDE							0	0
510	1010	TOTALS PER PHASE								
	1520	PANEL TOTAL								

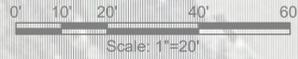


ELECTRICAL EQUIPMENT RACK DETAIL

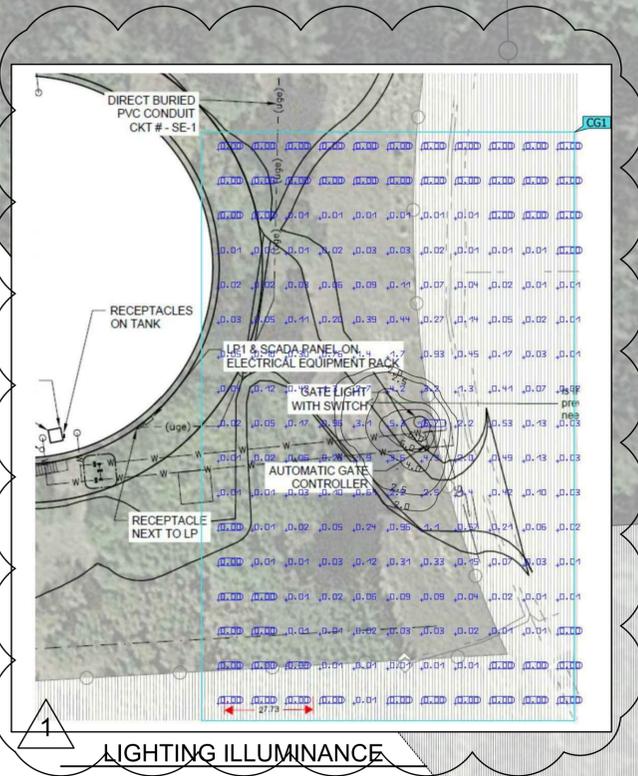
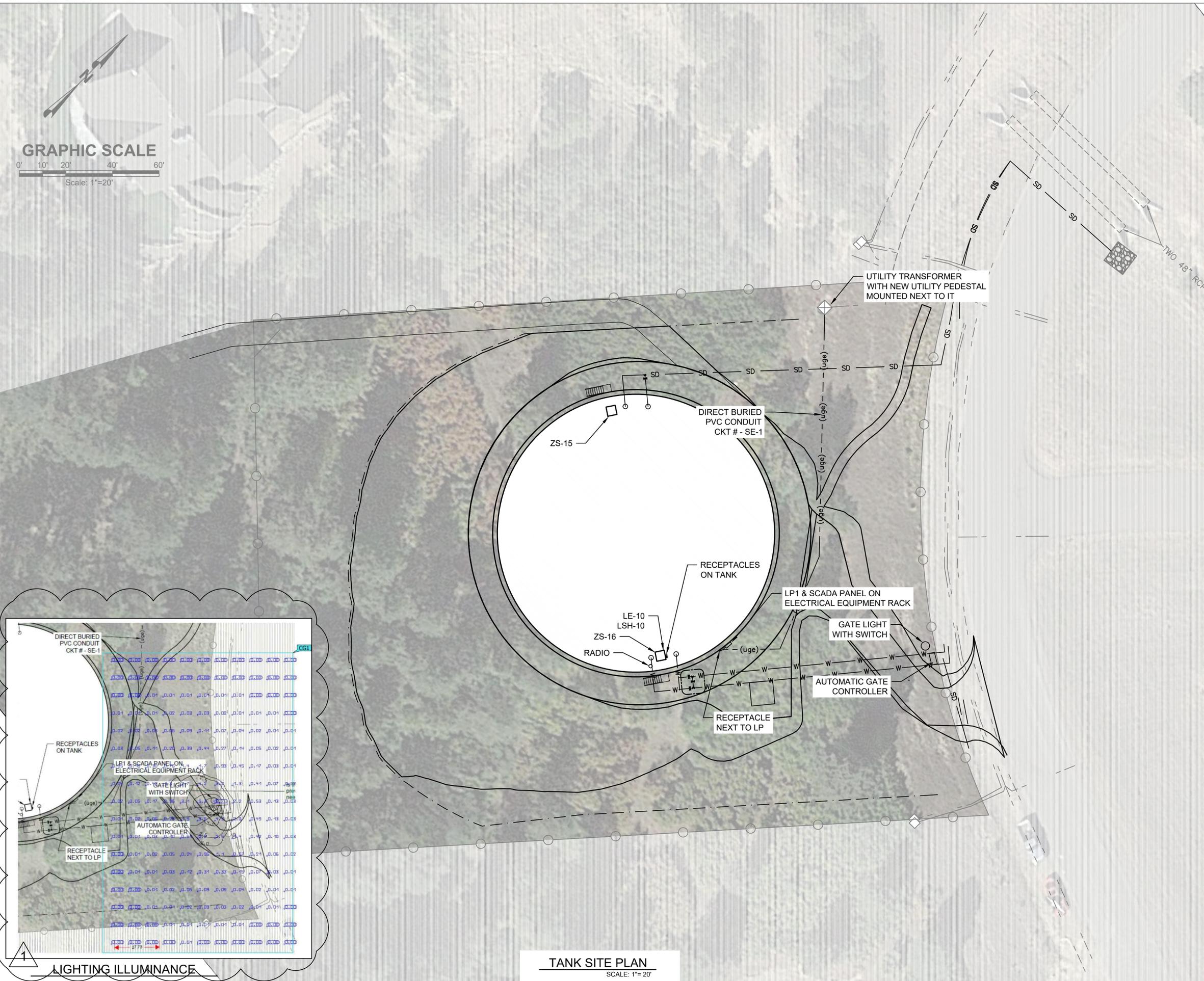


PROJECT NO.	04-20-0153	DRAWN	DLE	DESIGNED	DLE	APPROVED	CLR	DATE	01/22
ISSUED FOR BID		FORSGREN Associates Inc.		REVISIONS		BY		DATE	
2.0M GALLON TANK		ELECTRICAL - ONE-LINES		NO.		DATE		BY	
SHEET NO: E02		DATE: MAY 2021		PAGE NO: OF		PCD FILE NO. PPR-21-30		This document or any part thereof in detail or design shall be the property of Forsgren Associates Inc. and shall not be reproduced without the written authorization of Forsgren Associates Inc.	

GRAPHIC SCALE



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TANK SITE PLAN
SCALE: 1"= 20'



PCD FILE NO. PPR-21-30

PROJECT NO. 04-20-0153	DRAWN	DESIGNED	APPROVED	DATE	NO.	REVISIONS	BY	DATE
2.0M GALLON TANK					ELECTRICAL SITE PLAN			
SHEET NO: E03								
DATE: MAY 2021								
PAGE NO: OF								
					56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112 PH: 720.232.6644			
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