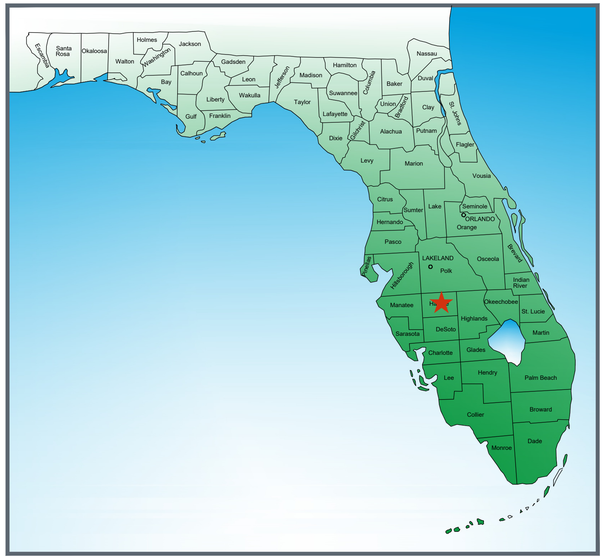
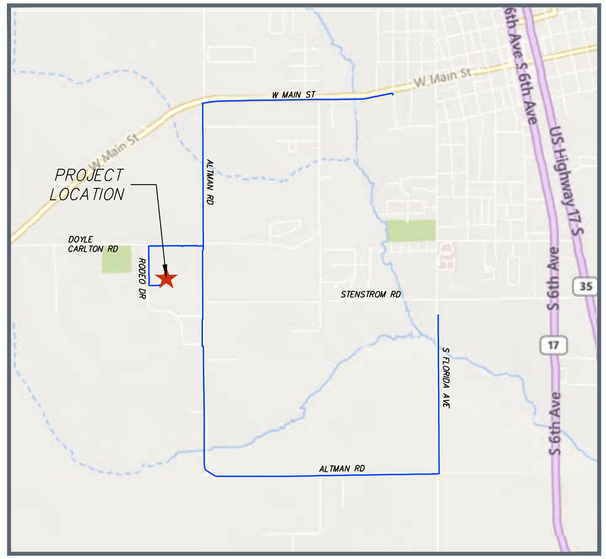
CONSTRUCTION PLANS FOR:

CITY OF WAUCHULA

SOUTHWEST AREA ELEVATED TOWER AND WATER LINE

W MAIN ST, WAUCHULA, FLORIDA





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ENGINEER OF RECORD:
VAUGHAN S. LEER, P.E.
CHASTAIN SKILLMAN, LLC
205 EAST ORANGE STREET, SUITE #110
LAKELAND, FLORIDA 33801-4611
(888) 646.1402

UTILITY PROVIDERS:

ELECTRIC:
PEACE RIVER ELECTRIC CO.
PAUL ROBERTS
1499 NORTH HWY 17
WAUCHULA, FL 33873
(863) 767.4650

WATER/SEWER:
CITY OF WAUCHULA
KYLE LONG
126 SOUTH 7TH AVE
WAUCHULA, FL 33873
(863) 381.6753

FIBER/PHONE:
CENTURYLINK
NOLAN SNYDER
924 MEMORIAL DR
AVON PARK, FL 33825-9601
(720) 888.2945

CABLE:
COMCAST
CHAD EVENER
3010 HERRING AVE
SEBRING, FL 33870
(941) 356.1564

GAS:
TECO PEOPLES GAS-LAKELAND
CHEYENNE THOMPSON
8416 PALM RIVER ROAD
TAMPA, FL 33619
(813) 743.7164

SunShine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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CHASTAIN-SKILLMAN, LLC (863) 646-1402 REG. NO 262
205 EAST ORANGE STREET, SUITE #110, LAKELAND, FLORIDA 33801-4611

Digitally signed by Vaughan S Leer
Date: 2026.06.03 10:54:27-04'00'

VAUGHAN S. LEER LICENSE No. 94781 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 2, 2026

FOR BIDDING

This item has been digitally signed and sealed by Vaughan S. Leer on the date adjacent to seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

C.S.I. JOB NO. 10371.03

P:\10371\03\CAD\Water\10371\03\Production Drawings\10371-SE-2023-COVER.dwg C-00 Jun 02, 2026 4:37pm by rconnahan

GENERAL NOTES:

A). Locations, elevations, and dimensions of existing utilities, structures, and other features shown are based on the best available information at the time of the preparation of these drawings, and may not represent actual conditions encountered in the field. The contractor shall verify locations, elevations, and dimensions of all existing utilities, structures, and/or other features which may affect work prior to submitting a bid and prior to construction.

B.) The Contractor shall repair and replace all damaged and disturbed areas to pre-construction conditions, including all paving, stabilized earth, sod, driveways, trees, sidewalks, curbs, storm sewers, etc. Where applicable, the same type of material that was removed or damaged during construction shall be used.

C). The Contractor shall immediately notify the Engineer if a conflict between the drawings and actual field conditions is discovered during the course of bidding or construction.

D). It shall be the Contractor's responsibility to visit the site prior to bidding the work and to perform such tests, studies, and surveys as is deemed necessary to satisfy himself as to the actual surface and subsurface conditions existing at the site. Actual conditions that differ from those shown on the drawings shall not constitute grounds for extra payment.

E.) No construction shall commence until all applicable permits have been obtained. All work shall be performed in accordance with the Hardee County Engineering Standards Manual. Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction (latest edition), FDOT Utility Accommodation Manual, and applicable Florida Department of Environmental Protection regulations.

F.) All Work shall be constructed in accordance with the lines and grades shown on the Plans. The full responsibility for keeping alignment and grade shall rest upon the Contractor.

G.) Utility Coordination:

1.) Prior to proceeding with trench excavation, the Contractor shall contact all utility companies in the area to aid in locating their underground services. Contractor shall contact "Sunshine by calling toll free 1-800-432-4770 48 hours prior to the start of work so that existing underground utilities may be located.

2.) Temporary support, adequate protection and maintenance of all existing underground and surface utility structures, including drains, sewers, manholes, hydrants, valves, valve covers, power poles and other miscellaneous utility structures encountered in the progress of the Work shall be furnished by the Contractor at his expense. Any such structures which may have been disturbed shall be restored immediately as required by the utility owner.

3). The Contractor shall take all reasonable precautions against damage to existing utilities. However, in the event of a break in an existing water main, gas main, sewer, or underground cable, the Contractor shall immediately notify the interrupted utility.

4.) Wherever obstructions are encountered during the progress of the Work and interfere to such an extent that an alteration in the plans is required, the City shall have the authority to order a deviation from the line and grade or arrange with the owners of the structures for the removal, relocation or reconstruction of the obstructions.

5.) Contractor shall be responsible for coordination and all costs associated with other utility companies, such as power and telephone companies for holding power and telephone poles/wires, guy wires, or relocating same.

6.) The Contractor shall coordinate any tie-ins to the existing wastewater and potable water systems with the City of Wauchula at least five (5) working days prior to the intended time of tie-in. The method and conditions of tie-ins shall be in accordance with current City standards and procedures.

H.) The Contractor shall carry on the Work in a manner which will cause a minimum of interruption to traffic. Where traffic must cross open trenches, the Contractor shall provide suitable bridges at street intersections and driveways. The Contractor shall post suitable signs indicating that a street is closed and necessary detour signs for the proper maintenance of traffic.

I.) During construction, the Contractor shall, at all times, keep the construction site and adjacent premises as free from material, debris and rubbish as is practicable and shall remove the same from any portion of the site if, in the opinion of the City, such material, debris, or rubbish constitutes a nuisance or is objectionable. At the conclusion of the Work, all tools, temporary structures and materials belonging to the Contractor shall be promptly taken away. The Contractor shall remove and promptly dispose of all water, dirt, rubbish or any other foreign substances and restore all disturbed areas to pre-construction conditions.

J.) Right-of-Way Restoration:

1.) All restoration activities performed within the Hardee County rights-of-way shall conform with FDOT Standard Specifications for Road and Bridge Construction (latest edition) and FDOT Roadway and Traffic Design Standards (latest edition).

2.) A minimum 2-foot wide strip of sod shall be placed along the edge of existing pavement in disturbed areas. Sod shall be bahia in undeveloped areas and in-kind replacement in developed areas.

3). All existing cross drains that are damaged or removed in conjunction with the work shall be replaced with reinforced concrete pipe (18-inch minimum diameter) and mitered end sections.

4.) All disturbed roadside ditches and drainage swales having a front slope and/or back slope greater than or equal to 3 to 1 shall be restored in accordance with FDOT requirements.

5.) All existing driveways and unimproved roadways shall be restored in accordance with FDOT requirements.

K.) All areas disturbed as a result of work shall be protected from erosion utilizing temporary vegetation, staked hay bales, staked silt fence, temporary grading etc.

J.) contractor shall provide all millings to the city at the designated drop-off location determined by the city.

COMPLIANCE WITH SAFETY STANDARDS

A.) The "Trench Safety Act", which became Florida law on October 1, 1990, adopts the provisions of the Occupational Safety and Health Administration's excavation safety standards (29 C.F.R. Part 1926.650 Subpart P). Contractor compliance with this standard is mandatory. It is the Contractor's responsibility to be thoroughly familiar with the provisions of this standard and govern himself accordingly. It is solely the Contractor's responsibility to select the compliance method(s) and to ensure the proper employment of that method(s) during performance of the work.

B.) For projects requiring excavations to a depth in excess of five (5) feet, the Contractor shall identify the method or methods of compliance (i.e., sloping of trench to be excavated, or, in the case of shoring, the square feet of shoring to be used). Every separate item shall indicate the specific method of compliance as well as the cost for that method.

C.) If geotechnical information is made available from the City or Engineer, the Contractor shall consider this information in the Contractor's design of the trench safety system proposed for the project.

D.) The Contractor shall furnish all labor, equipment, and materials for compliance with the "Trench Safety Act" and shall bear all the costs thereof.

LEGEND:

A

A/C	– Air Conditioning Unit
-AP-	– Abandoned Pipe

B

BM	– Bench Mark
BOB	– Bottom of Bank
BOC	– Back of Curb

C

-C-	– Cable TV Line
(C)	– Calculated Measurement
C	– Chord Distance
CB	– Chord Bearing
CL	– Center line
CM	– Concrete Monument
CMP	– Corrugated Metal Pipe
CONC.	– Concrete
CPP	– Corrugated Plastic Pipe

D

(D)	– Deed/Described Measurement
D	– Degree of Curvature
D.B.	– Deed Book
DH	– Drill Hole
D.O.T.	– Department of Transportation

E

E./ELEC.	– Electric
-E-	– Electrical Line
EL./ELEV.	– Elevation
EOP	– Edge of Pavement

F

F.C.M.C.	– Found Concrete Monument and Cap
F.C.M.	– Found Concrete Monument
F.I.P.	– Found Iron Pipe
F.I.P.C.	– Found Iron Pipe and Cap
F.I.R.	– Found Iron Rod
F.I.R.C.	– Found Iron Rod and Cap
F.N.&D.	– Found Nail and Disk
F.R.S.	– Found Railroad Spike
(F)	– Field Measurement
F.B.	– Field Book
FND.	– Found

H

HDPE	– High Density Polyethylene Pipe

I

INV	– Invert
IP	– Iron Pipe
IP&C	– Iron Pipe with cap
IR&C	– Iron Rod with cap

L

L	– Length of Arc
LB	– Licensed Business
LS	– Licensed Surveyor

M

M.B.	– Map Book
MES	– Mitered End Section

N

N&D	– Nail and Disk
N&F	– Nail and Flasher

O

-OHW-	– Overhead Wire
-OH-	– Overhead
O.R.	– Official Records Book

P

(P)	– Plat Measurement
P.B.	– Plat Book
PC	– Point of Curvature
PCP	– Permanent Control Point
PG.	– Page
PLS	– Professional Land Surveyor
PSM	– Professional Surveyor & Mapper
P.O.B.	– Point of Beginning
P.O.C.	– Point of Commencement
PRM	– Permanent Reference Marker
PT	– Point of Tangency
PVC	– Polyvinyl Chloride Pipe

R

R	– Radius
R.C.M.C.	– Recovered 4"x4" Concrete Monument and Cap "Chastain-Skillman"
R.I.R.C.	– Recovered 5/8" Iron Rod and Cap "Chastain-Skillman"
R.N.&D.	– Recovered Nail and Disk "Chastain-Skillman"
RCP	– Reinforced Concrete Pipe
REC.	– Recovered
RNG.	– Range
R/W	– Right-of-Way
RRS	– Railroad Spike

S

S.I.R.C.	– Set 5/8" Iron Rod and Cap "Chastain-Skillman"
S.N.&D.	– Set Nail and Disk "Chastain-Skillman"
SEC.	– Section
(SP)	– State Plane Coordinate System
-STM-	– Stormwater

T

T./TELE.	– Telephone
-T-	– Telephone line
T.B.M.	– Temporary Bench Mark
TOB	– Top of Bank
(TYP)	– Typical
TWP.	– Township

U

-UD-	– Under Drain
-UGC-	– Underground Cable Line
-UGE-	– Underground Electric Line
-UGF-	– Underground Fiber Optic Line
-UGS-	– Underground Sewer Line
-UGT-	– Underground Telephone Line
-UGTR-	– Underground Traffic Signal
-UGW-	– Underground Water Line
U.G.S.	– Underground Service

V

VCP	– Vitreous Clay Pipe

SYMBOL

	– Asphalt
	– Back Flow Preventer
CJB	– Bench Mark
	– Cable Junction Box
CMK	– Cable Line Marker
CF	– Cable Line Marking
	– Concrete Light Pole
	– Concrete Monument (CM)

SYMBOL

	– Concrete
	– Delta (Central Angle)
	– Drainage Manhole
	– Drill Hole (DH)
EM	– Electric Meter
EJB	– Electric Junction Box
	– Electric Manhole
EMK	– Electric Line Marker
EF	– Electric Line Marking
FMK	– Fiber Optics Cable Marker
FJB	– Fiber Optics Cable Marker
FV	– Fire Valve
	– Fire Hydrant
	– Flood Light
GMK	– Gas Line Marker
GV	– Gas Valve
GM	– Gas Meter
	– Gas Manhole
	– Guy Anchor
	– Handicap Parking Space
	– Inlet
	– Iron Pipe (IP)
	– Iron Rod (IR)
IV	– Irrigation Valve
	– Light Pole
	– Manhole
	– Metal Light Pole
	– Metal Utility Pole
	– Monitor Well
	– Nail and Flasher (N&F)
	– Nail and Disk (N&D)
	– Railroad Spike (RRS)
SF	– Sewer Line Marking
	– Sewer Manhole
TJB	– Telephone Junction Box
TMK	– Telephone Line Marker
TF	– Telephone Line Marking
	– Telephone Manhole
	– Utility Pole
WMK	– Water Line Marker
WF	– Water Line Marking
	– Water Manhole
WM	– Water Meter
WV	– Water Valve
	– Well

SUBSURFACE ABBREVIATION LEGEND

# –	Number
ACP –	Asbestos Cement Pipe (Transite)
APPROX –	Approximate
ATMS –	Automated Traffic Monitoring System
BCATV –	Buried Cable Television
BE –	Buried Electric
BIP –	Black Iron Pipe
BT –	Buried Telephone Cable
CATV –	Television Cable
CDS –	Continuous Deflective Separation Unit
CFP –	Corrugated Flex Pipe
CIP –	Cast Iron Pipe
COMM –	Communication or Committee
CORS –	Continuously Operating Reference Station
COSP –	City of St. Petersburg
CPVC –	Chlorinated PVC
CSH –	Core Sample Hole
CUE –	Calculated Utility Elevation
DBBT –	Duct Bank Buried Telephone
DBC –	Direct Buried Cable
DIP –	Ductile Iron Pipe
E.D. –	Electronic Depth
EDO –	Electronic Designation Only
ERCP –	Elliptical Reinforced Concrete Pipe
EXP –	Exposed
FBK –	Field Book
FBL –	Fiber Light
FCP –	Fiber Conduit Pipe
FGT –	Florida Gas Transmission
FM –	Force Main
FOC –	Fiber Optic Cable
FOP –	Found Open Pipe
FPC –	Florida Power Corporation
FPL –	Florida Power and Light Inc.
FTV –	Failed to Verify
GALV –	Galvanized
GAS –	Gas Line
GPR –	Ground Penetrating Radar
GSP –	Galvanized Steel Pipe
GSS –	Gravity Sanitary Sewer
HCAA –	Hillsborough County Aviation Authority
HDPE –	High Density Poly-Ethylene
ID –	Inside Diameter or Identification
L3 –	Level 3 Communications
MD –	Measure Down
MEAS –	Measured
MISC –	Miscellaneous
MOT –	Maintenance of Traffic
MULTI –	Multiple
MW –	Water Meter
NFV –	Not Field Verified
NPW –	Non-Potable Water
NTS –	Not To Scale
NUF –	No Utility Found
O/S –	Offset
PCCP –	Precast Concrete Pipe
PE –	Progress Energy
PET –	Petroleum Pipeline
POLY –	Polyethylene
POSS –	Possible
PRCP –	Pressurized Reinforced Concrete Pipe
PVC –	Polyvinyl Chloride
RCW –	Reclaimed Water Main
SS –	Sanitary Sewer
STORM –	Storm Drainage
SUE –	Subsurface Utility Engineering
TECO –	Tampa Electric Company
TRAFF –	Traffic Signalization Line
TRANS. –	Transmission
TRNF –	Transformer
TV –	Television
TW –	Time Warner
UAO –	Utility Agency Owner
VCP –	Vitrified Clay Pipe
VCW –	Valve Cover Water
VRZ –	Verizon Telephone
VVH –	Verified Vertical and Horizontal Location
WL –	Water Line
WM –	Water Main

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

CHASTAIN-SKILLMAN, LLC
205 EAST ORANGE STREET
SUITE #110
LAKELAND, FL 33801-4611
(888) 646-1402

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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
GENERAL NOTES AND LEGEND

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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: G-01

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Test Hole Date	Test Hole Number	Project Section	Utility Type	Ground Elevation	Manual Depth (TOP)	Utility Owner	Utility Direction	Surface Type	Notes
3/27/2025	VVH-101	W Main St.	1/2" DB Telephone	105.10	1.18	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-102	W Main St.	1-1/2" DB Telephone	104.90	2.00	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-103	W Main St.	NFV Sanitary Sewer	101.90	7.05	City of Wauchula	N-S	Soil	
3/27/2025	VVH-104	W Main St.	2" DB Telephone	97.80	2.41	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-105	W Main St.	2" PVC Unknown	96.40	1.42	N/A	E-W	Soil	
3/27/2025	VVH-106	W Main St.	1" DB Fiber Optic	94.50	3.45	CenturyLink	E-W	Soil	
3/27/2025	VVH-107	W Main St.	1-1/4" SubDuct Fiber Optic	97.10	3.56	CenturyLink	E-W	Soil	
3/27/2025	VVH-108	W Main St.	1-1/4" SubDuct Fiber Optic	97.20	2.92	CenturyLink	N-S	Soil	
3/27/2025	VVH-109	W Main St.	1-1/2" DB Telephone	97.90	4.67	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-110	W Main St.	2" DB Telephone	108.20	2.00	CenturyLink	NE-SW	Dirt Road	
3/27/2025	VVH-111	W Main St.	1" DB Fiber Optic	107.90	2.44	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-112	W Main St.	NFV Water Main	109.10	8.05	City of Wauchula	NE-SW	Asphalt	
3/27/2025	VVH-113	W Main St.	1" DB Telephone	112.30	2.19	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-114	W Main St.	1" DB Fiber Optic	112.40	1.74	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-115	W Main St.	1" DB Telephone	115.70	2.62	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-116	W Main St.	1" DB Fiber Optic	116.10	2.13	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-117	W Main St.	1" DB Telephone	124.10	2.55	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-118	W Main St.	1" DB Fiber Optic	124.10	2.35	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-119	W Main St.	1" DB Telephone	120.00	2.71	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-120	Altman Rd.	6" Polyvinyl Chloride Water Main	114.40	2.76	City of Wauchula	NE-SW	Soil	
3/27/2025	VVH-121	Altman Rd.	0.25" DB Fiber Optic	115.20	2.45	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-122	Altman Rd.	NFV Gas Main	114.50	7.65	TECO	NE-SW	Asphalt	
3/27/2025	VVH-123	Altman Rd.	1" DB Fiber Optic	113.20	4.08	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-124	Altman Rd.	1" DB Cable Television	110.60	2.16	Comcast	NE-SW	Soil	
3/27/2025	VVH-125	Altman Rd.	NFV SIZE Clay Sanitary Sewer	112.60	6.22	City of Wauchula	NE-SW	Soil	
3/27/2025	VVH-126	Altman Rd.	6" Polyvinyl Chloride Water Main	112.30	3.49	City of Wauchula	NE-SW	Soil	
3/27/2025	VVH-127	Altman Rd.	6" Polyvinyl Chloride Force Main	112.00	2.62	City of Wauchula	NE-SW	Soil	
3/27/2025	VVH-128	Altman Rd.	4" Polyethylene Gas Main (DEAD END)	112.30	2.71	TECO	NE-SW	Soil	
3/27/2025	VVH-129	Altman Rd.	Buried Telephone Splice	110.72	2.92	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-130	Altman Rd.	1" DB Fiber Optic	110.95	2.72	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-131	Altman Rd.	0.5" DB Telephone	110.94	3.14	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-132	Altman Rd.	2" DB Telephone	110.83	4.04	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-133	Florida Ave.	1" DB Telephone	84.50	3.10	CenturyLink	NE-SW	Soil	
3/27/2025	VVH-134	Florida Ave.	2" Sub Duct Fiber Optic	84.20	1.91	Wanrack	NE-SW	Asphalt	
3/27/2025	VVH-135	Florida Ave.	0.5" DB Telephone	84.30	2.67	CenturyLink	NE-SW	Asphalt	
3/27/2025	VVH-136	Florida Ave.	6" Polyvinyl Chloride Water Main	85.50	3.31	City of Wauchula	NE-SW	Soil	

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NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

CHASTAIN-SKILLMAN, LLC
205 EAST ORANGE STREET
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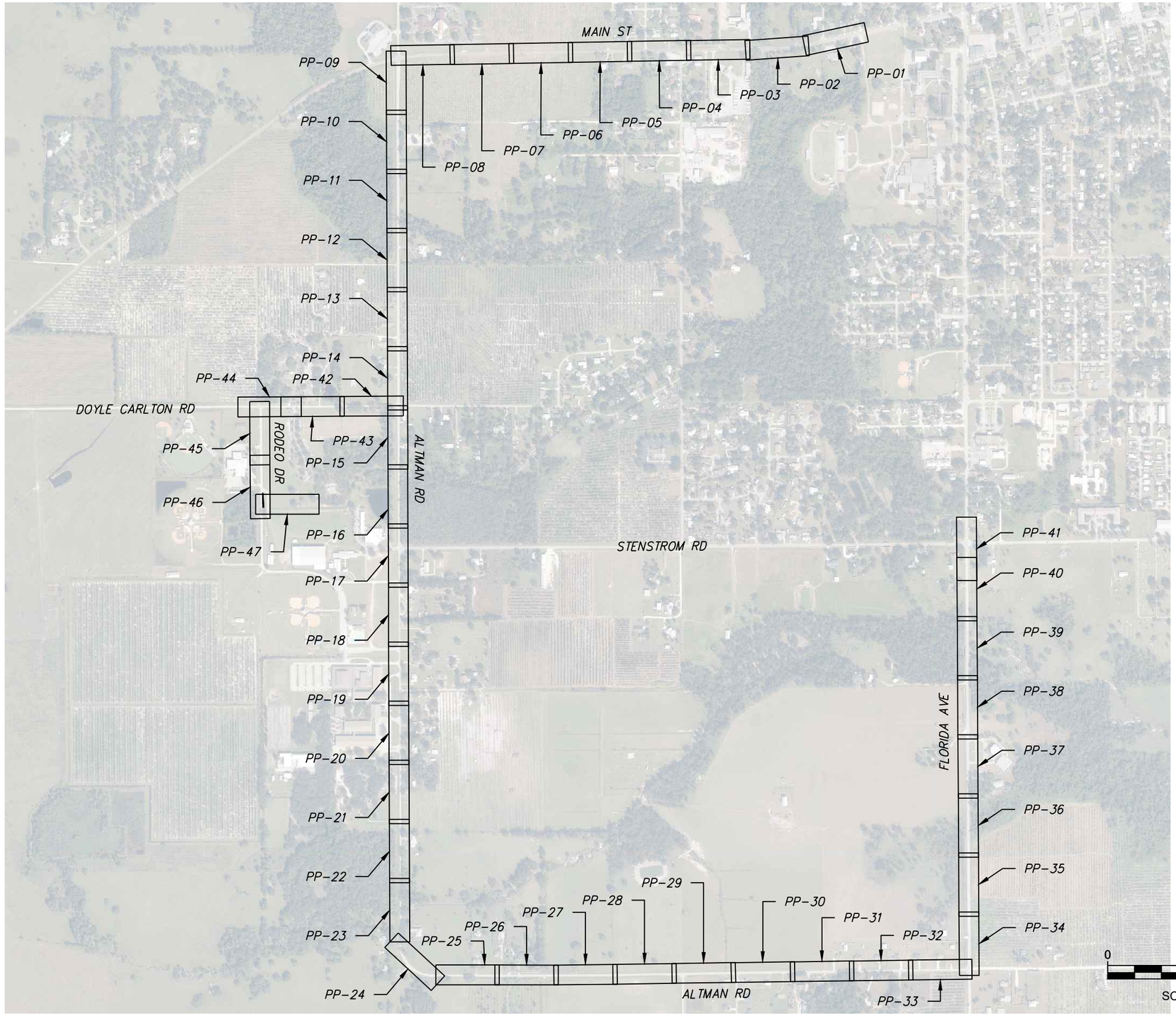
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
VVH TABLE

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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: G-02



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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
KEY MAP

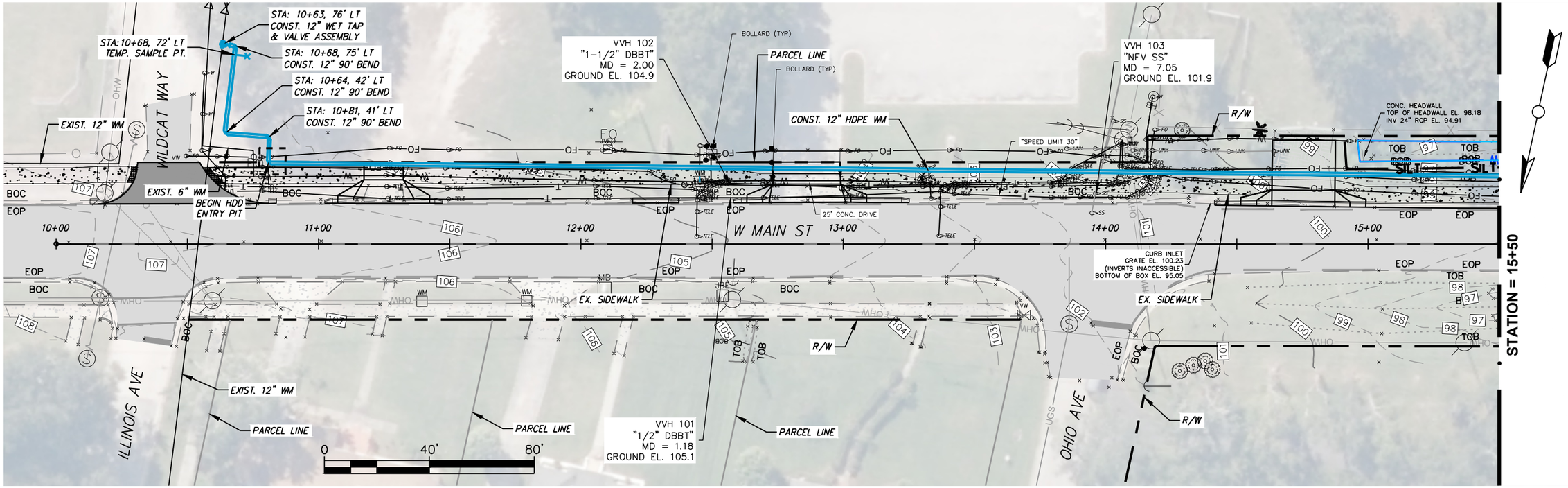
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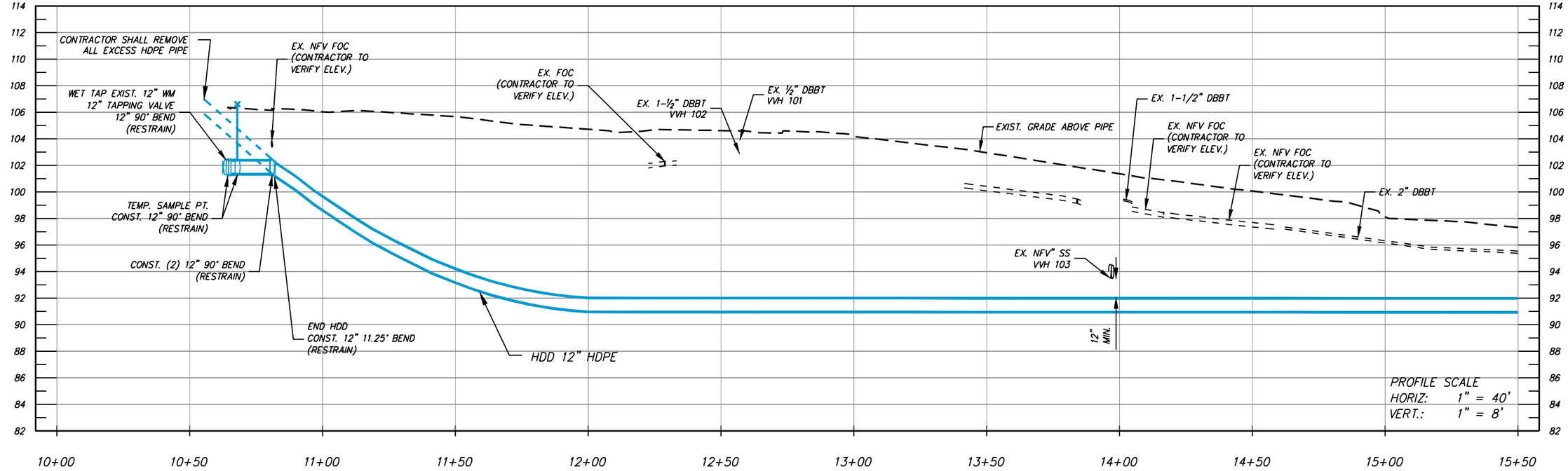
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PROJECT NUMBER: 10371.03

SHEET NUMBER: G-03

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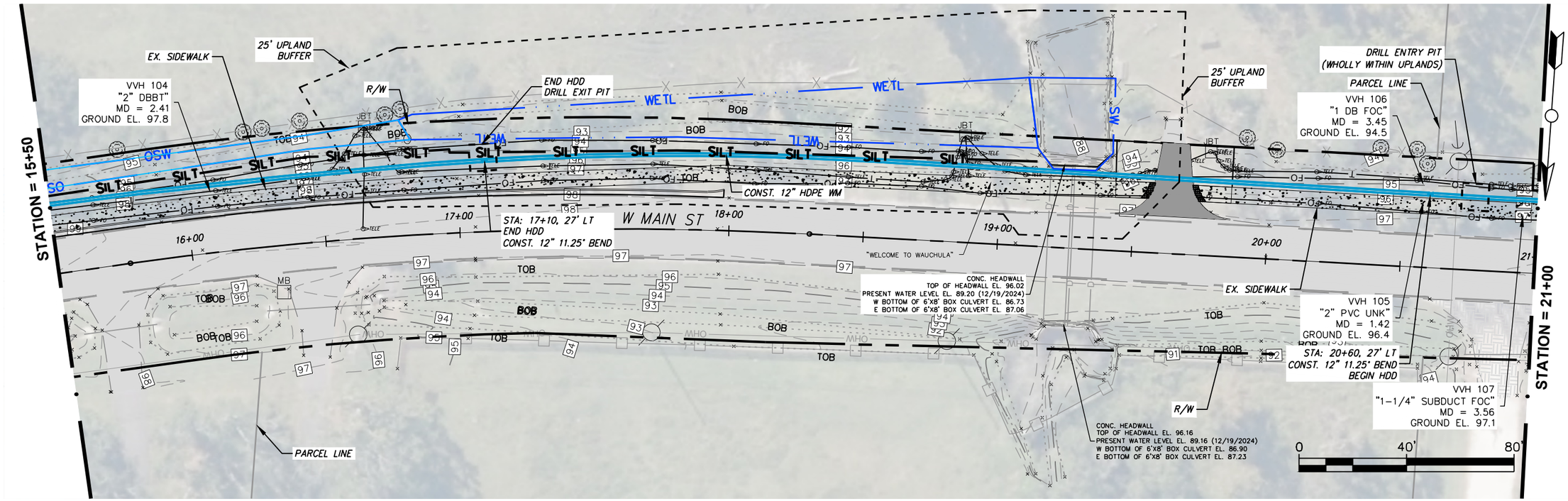
CITY OF WAUCHULA
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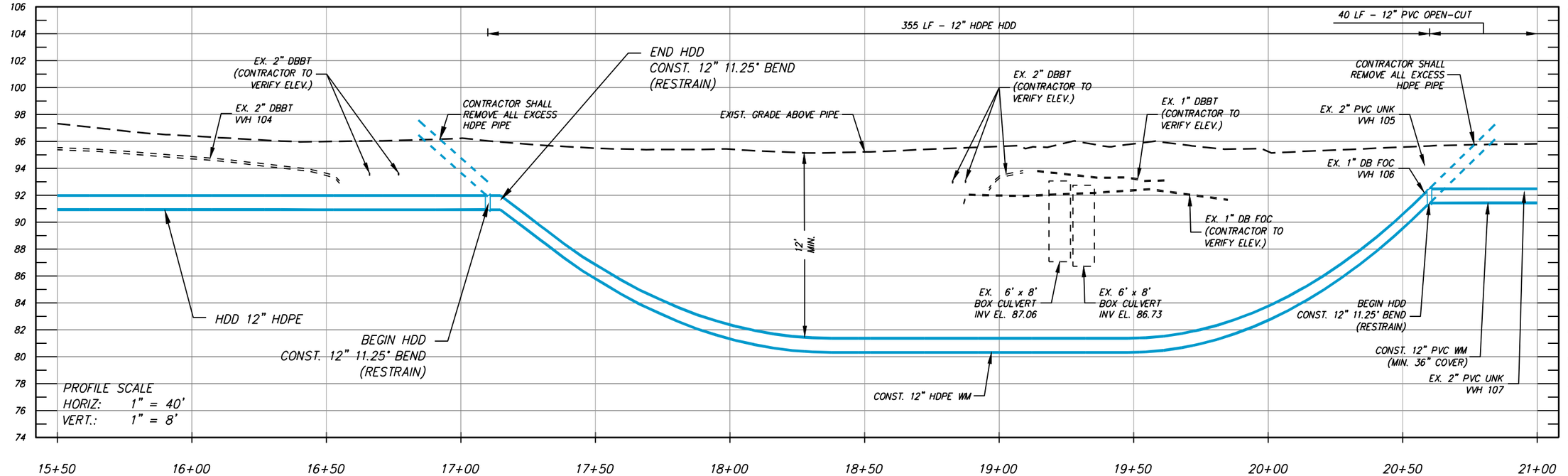
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-01





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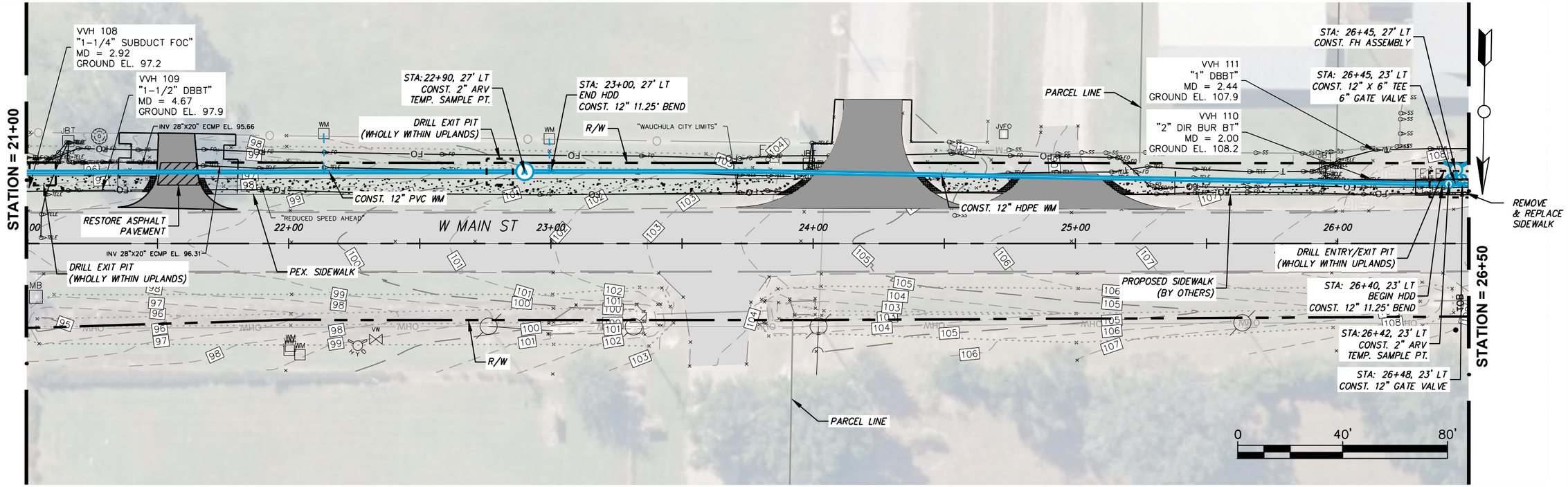
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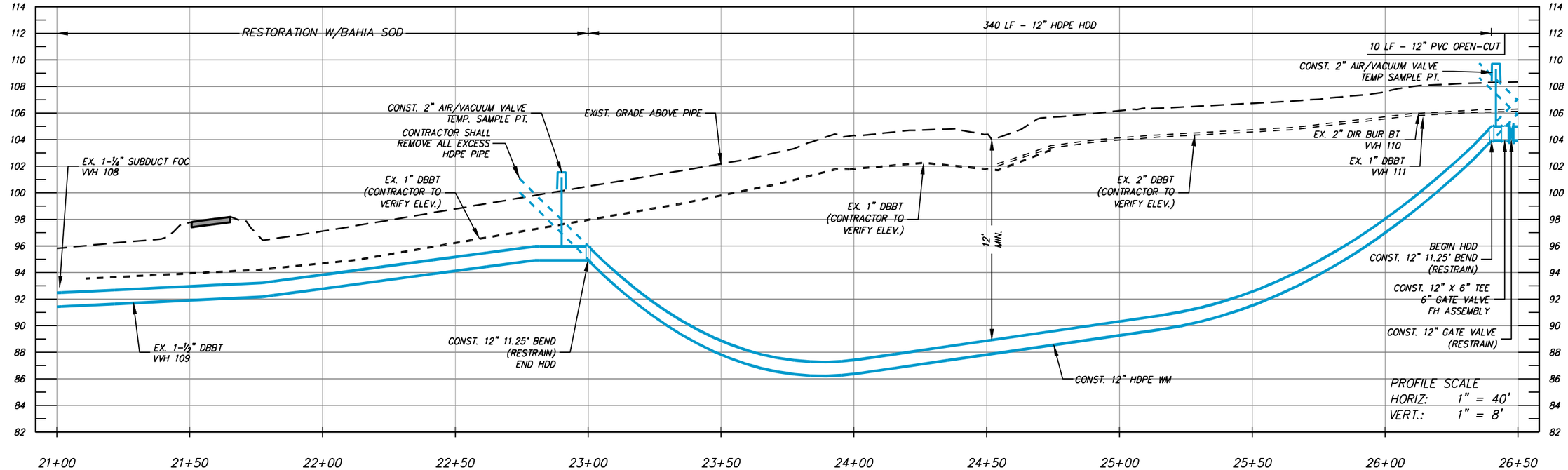
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-02

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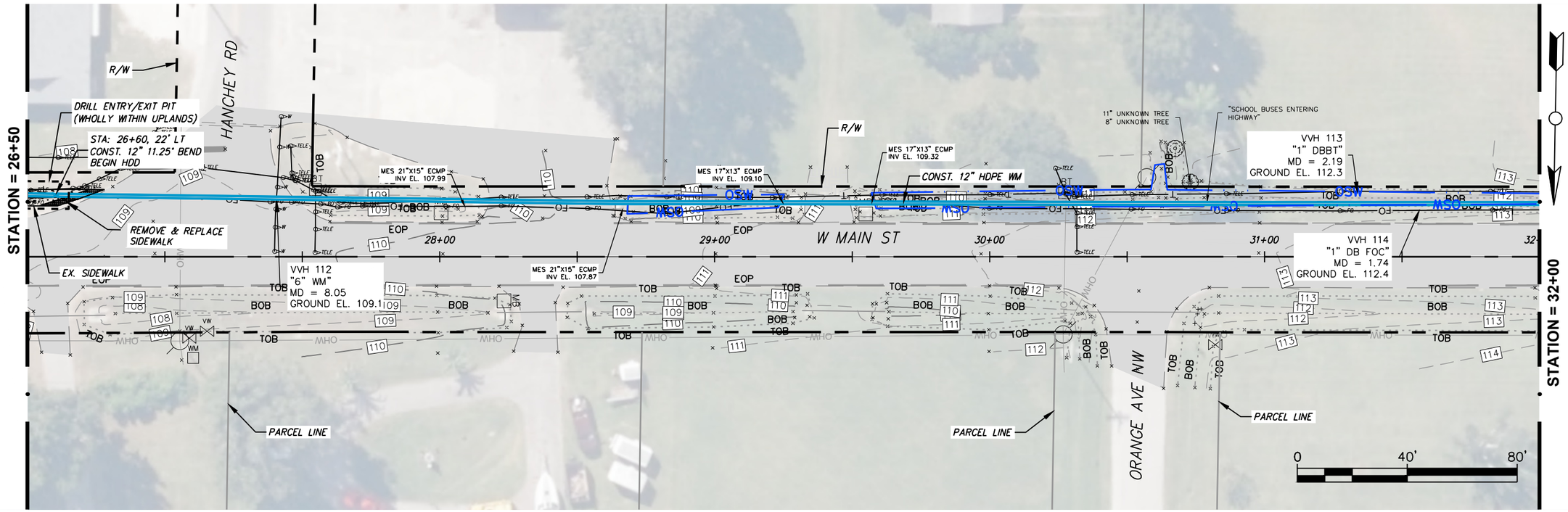
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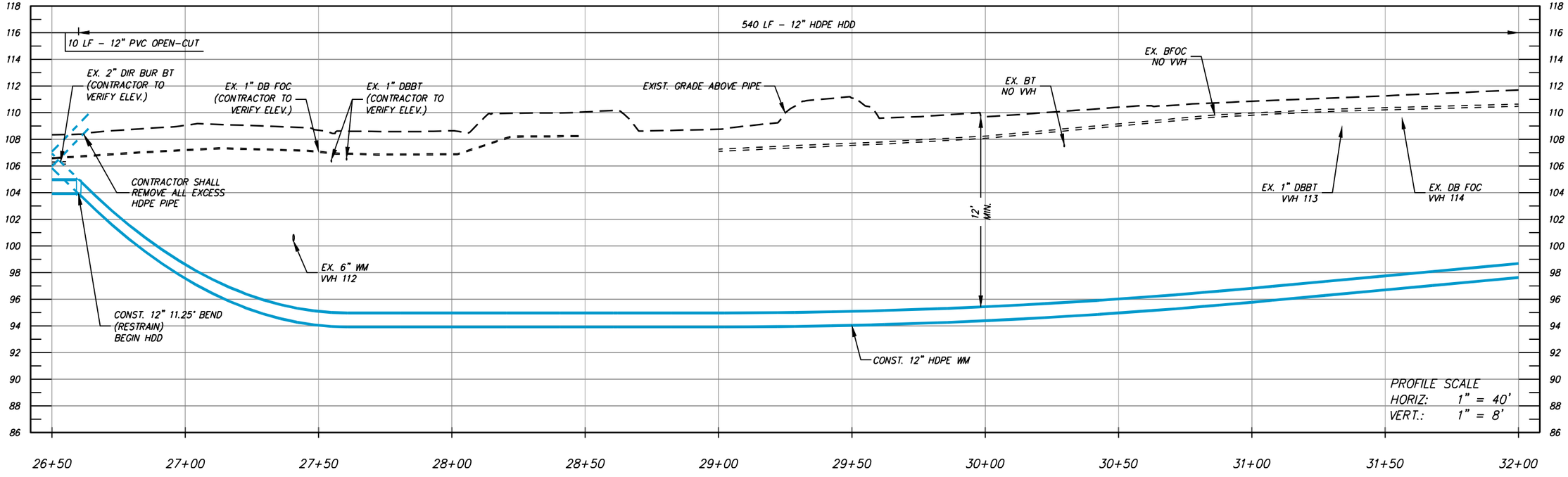
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

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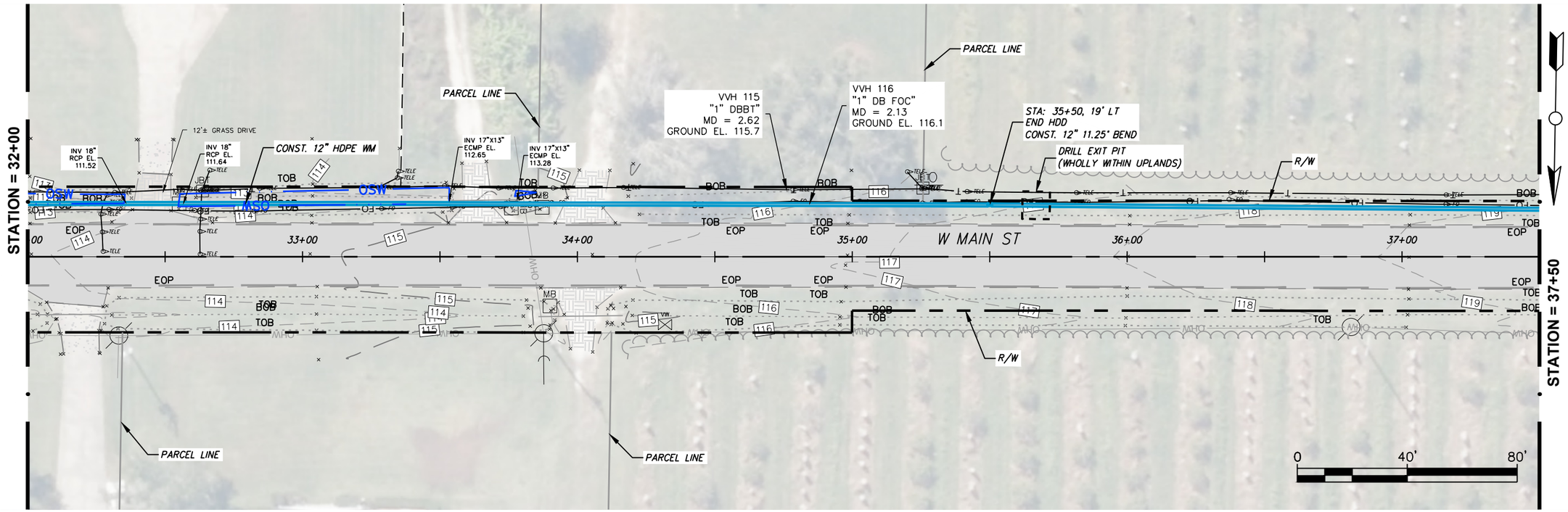
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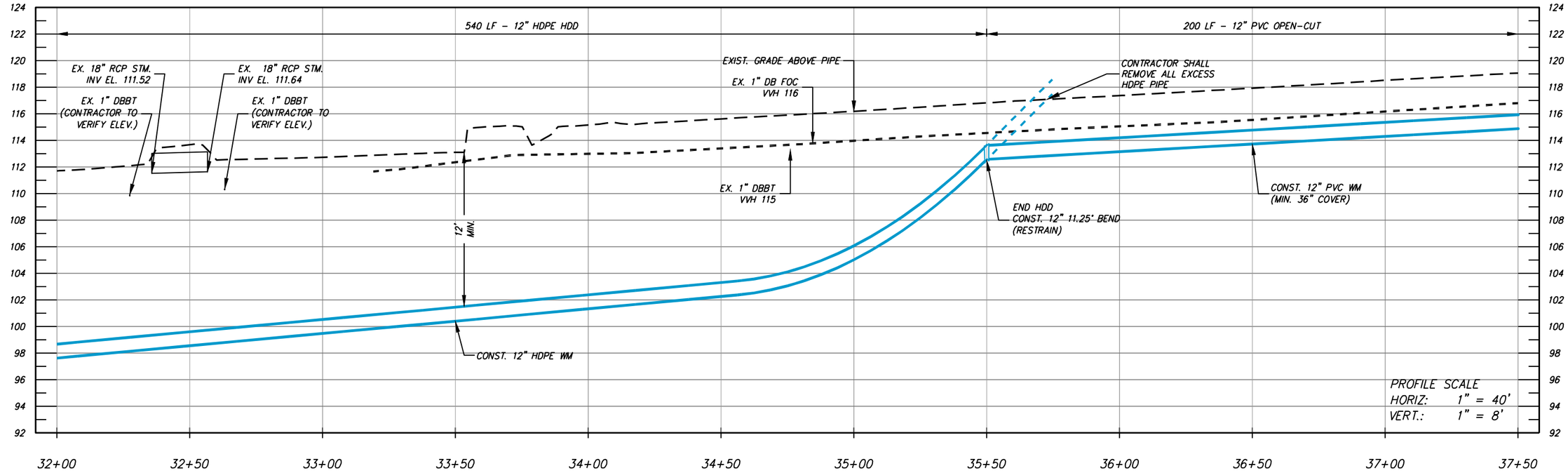
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-04

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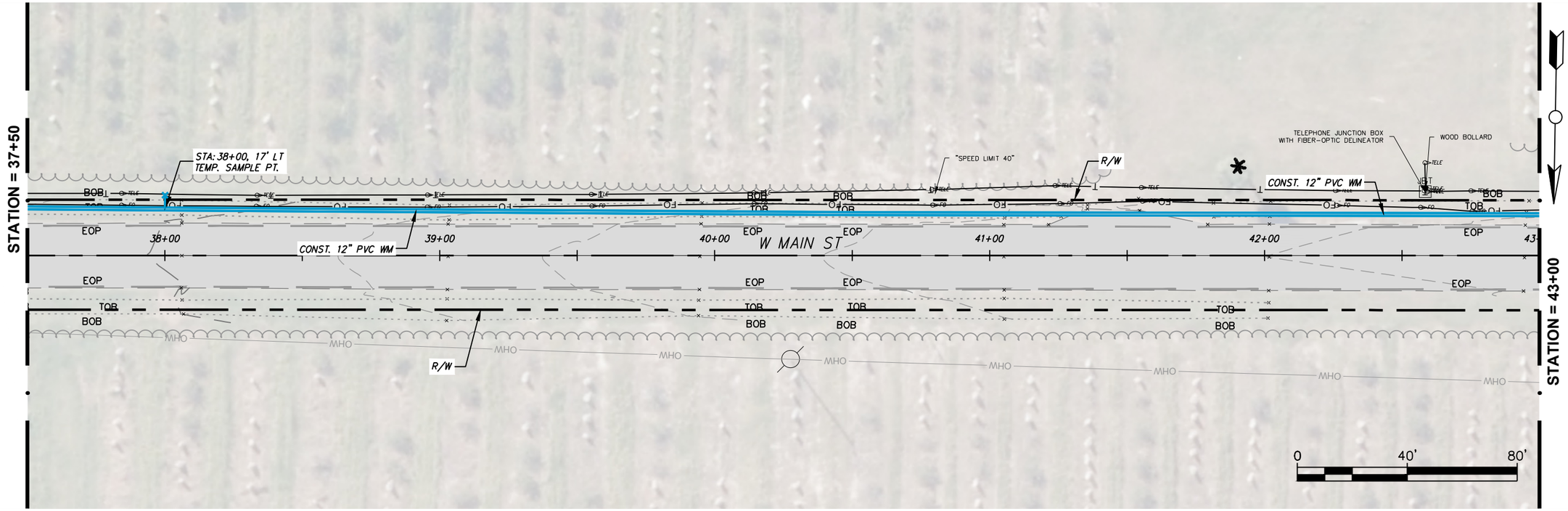
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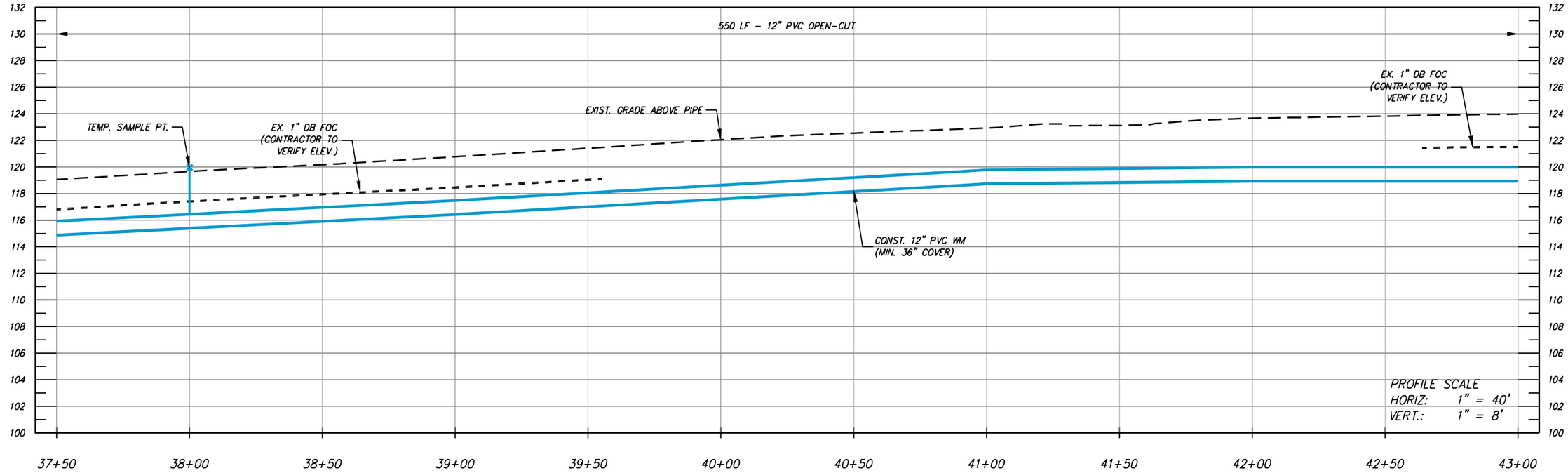
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SHEET NUMBER: PP-05

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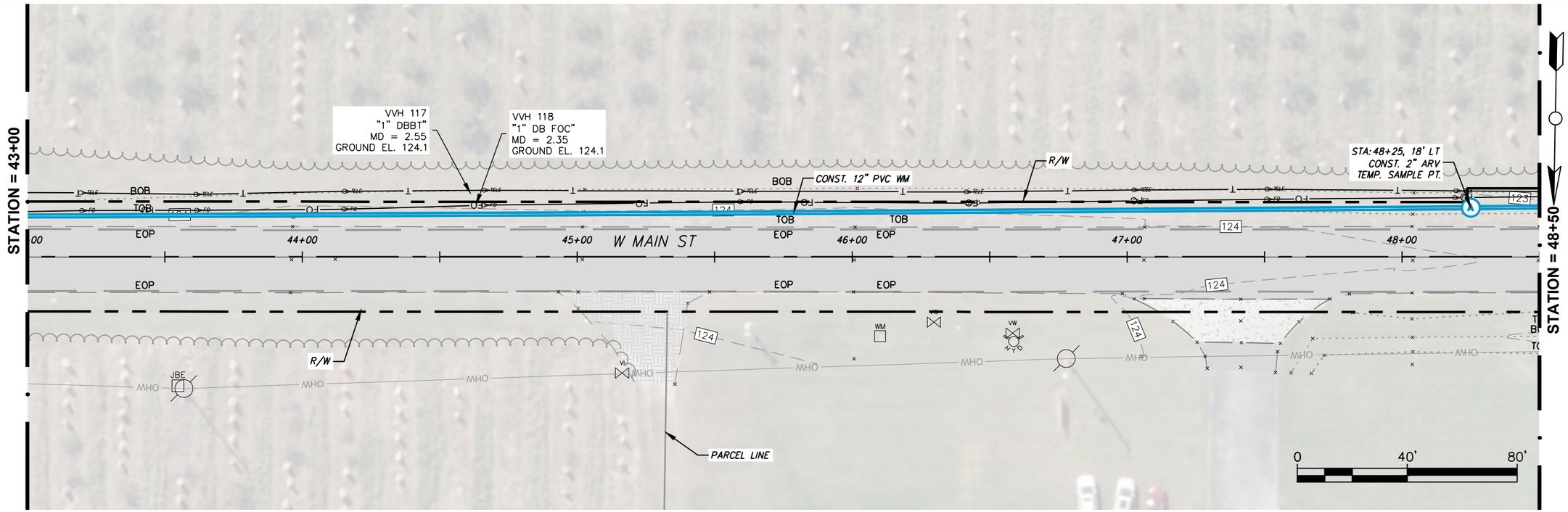
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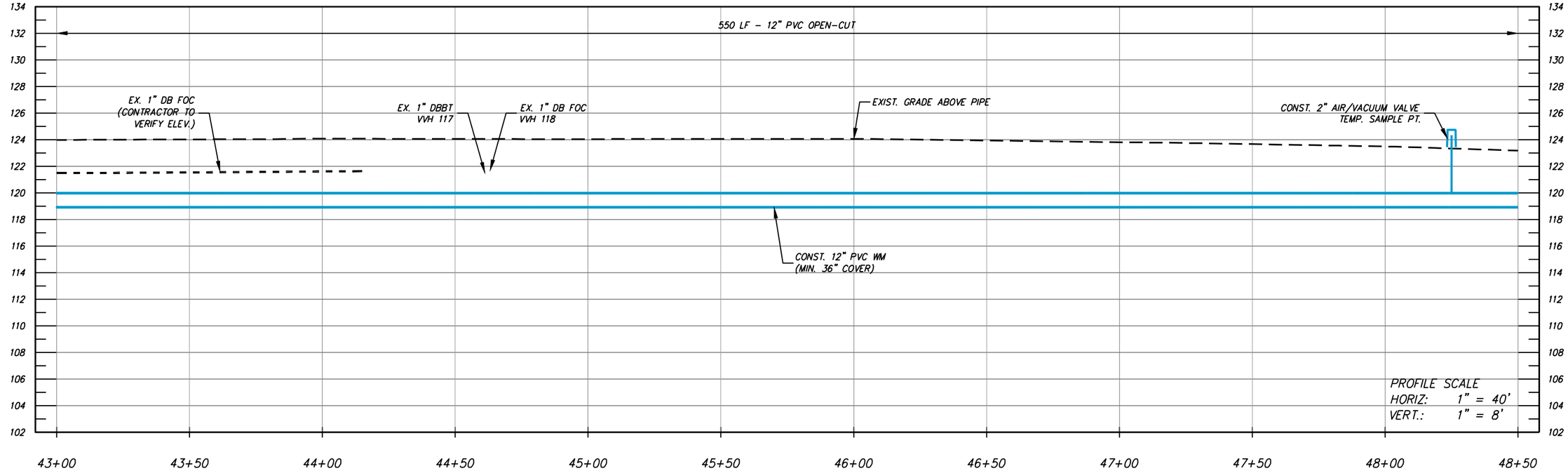
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REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-06

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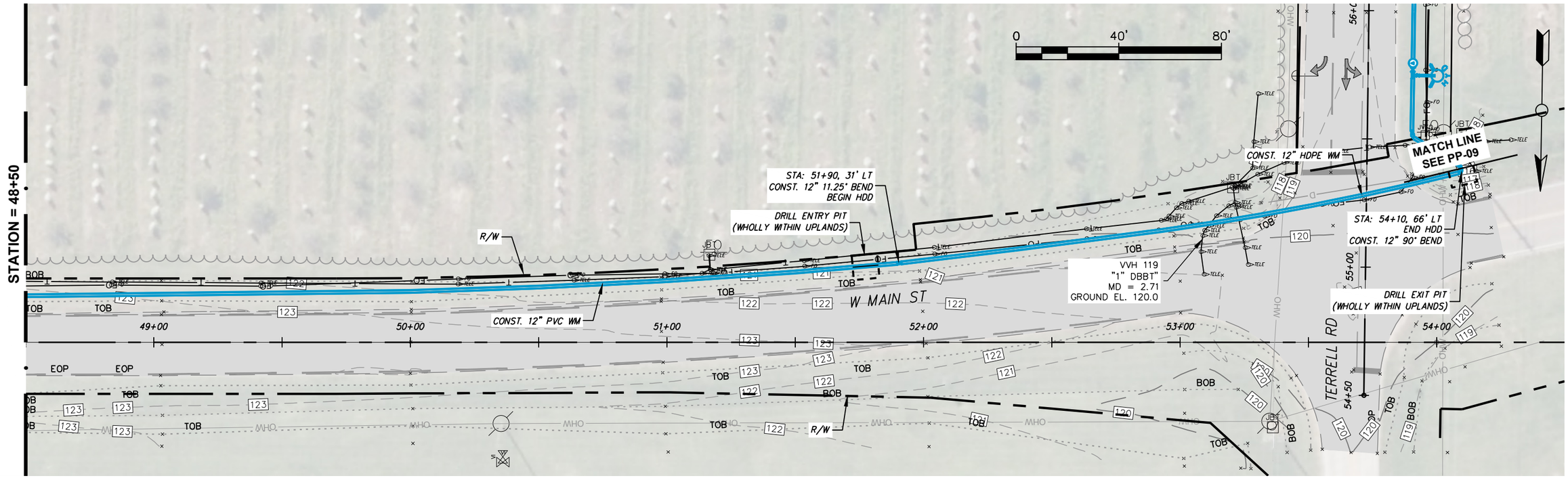
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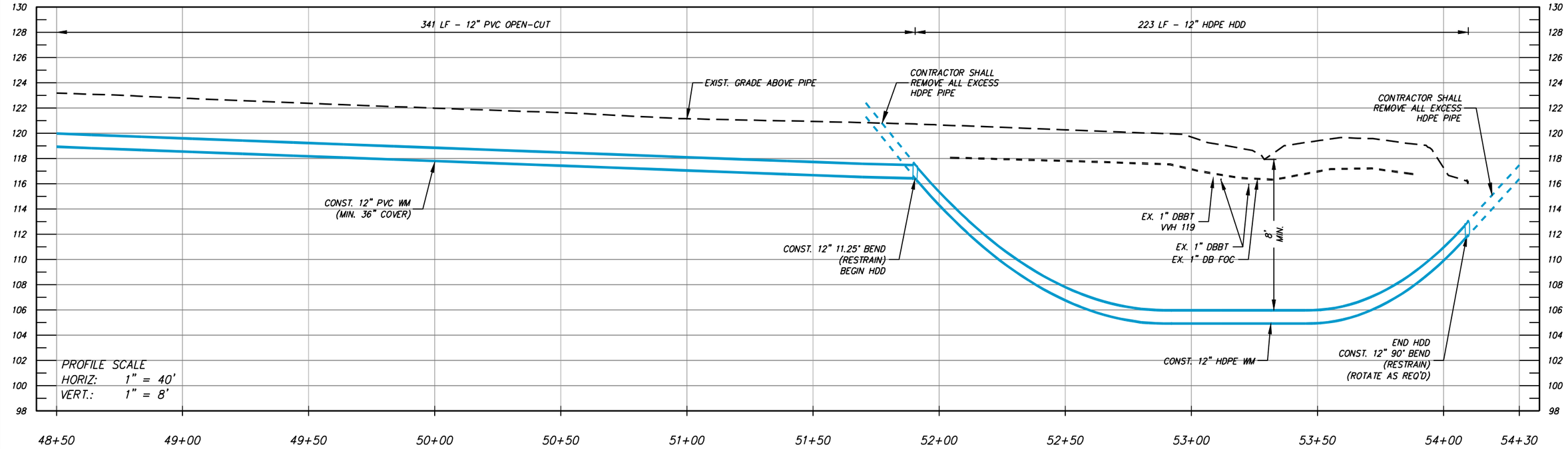
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-07

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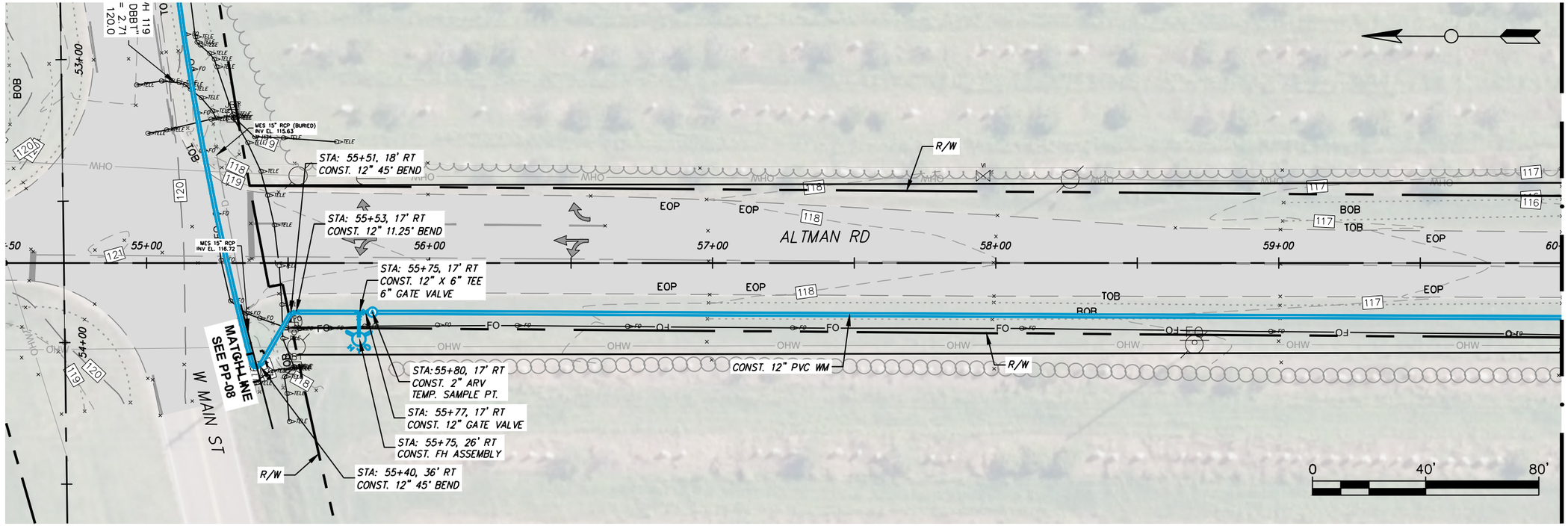
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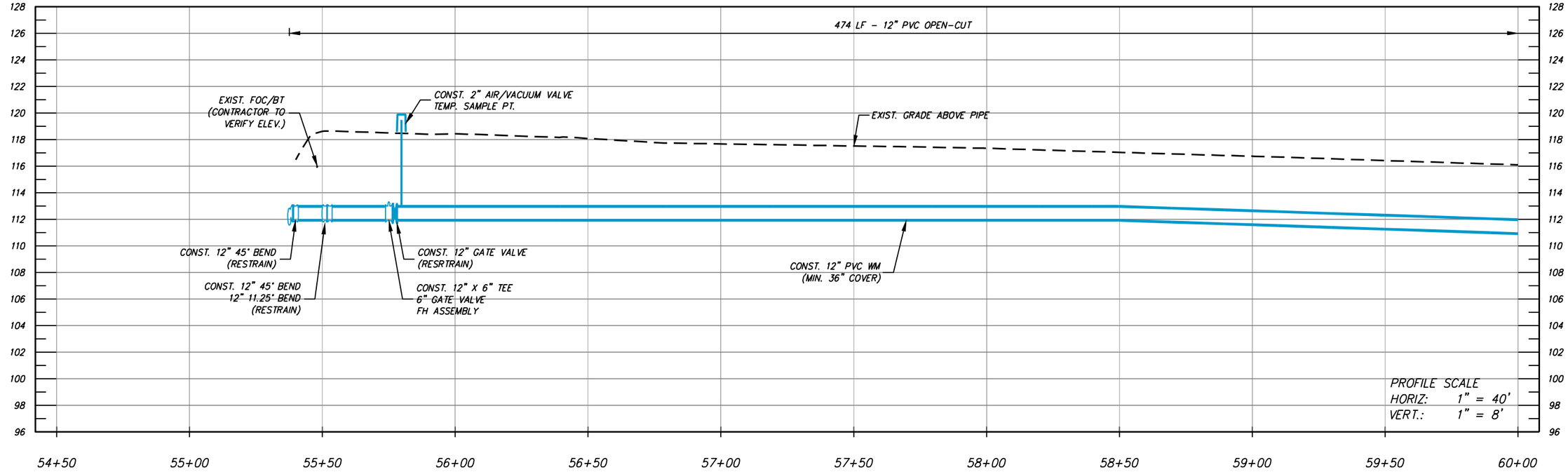
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PROJECT NUMBER: 10371.03

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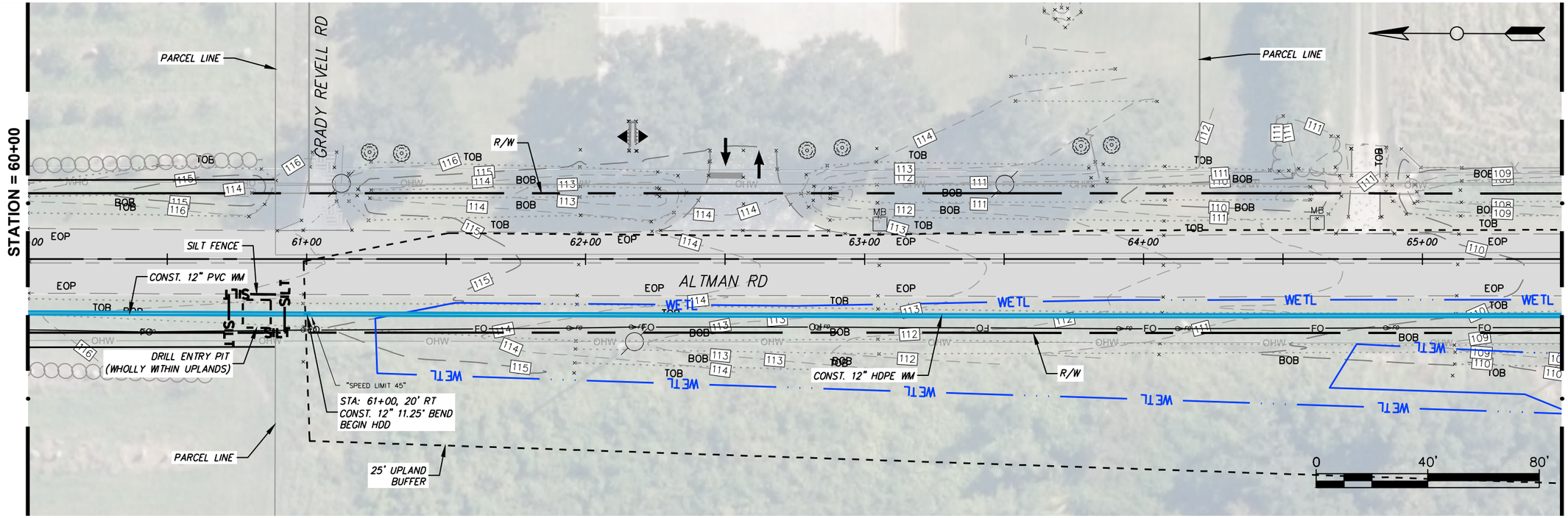
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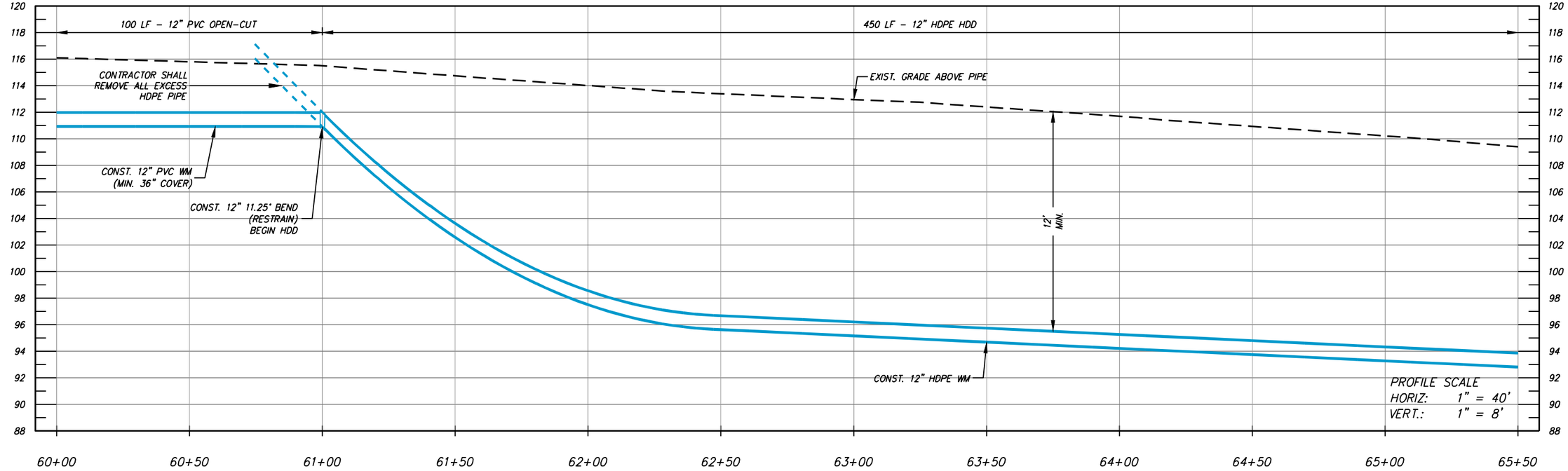
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-09

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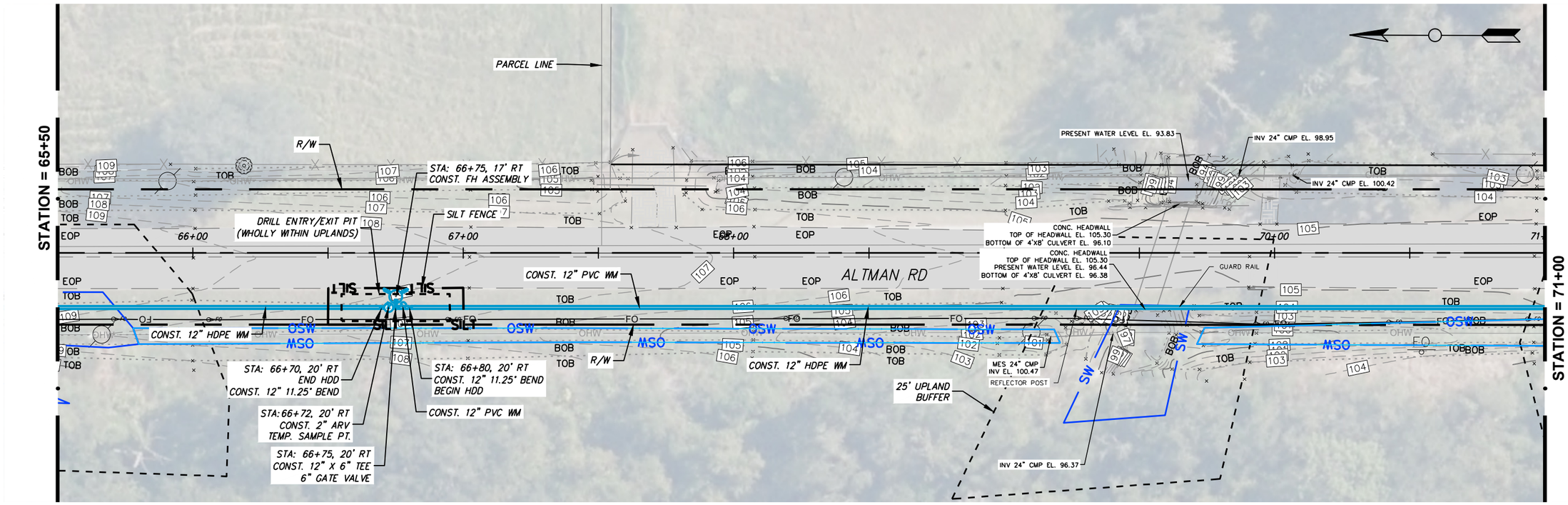
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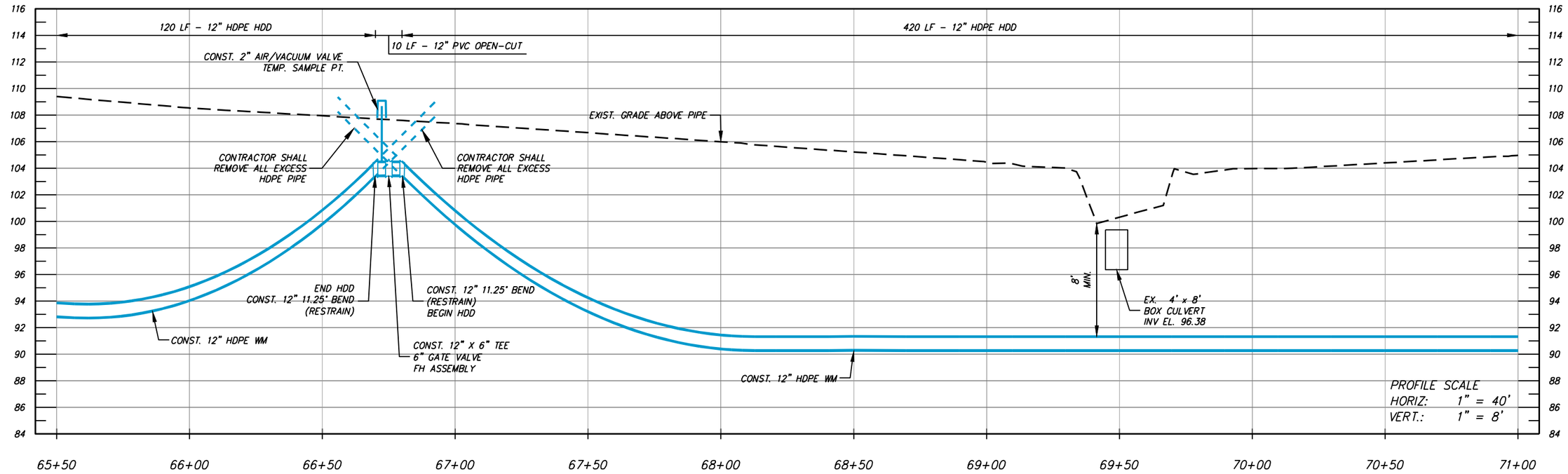
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PROJECT NUMBER: 10371.03

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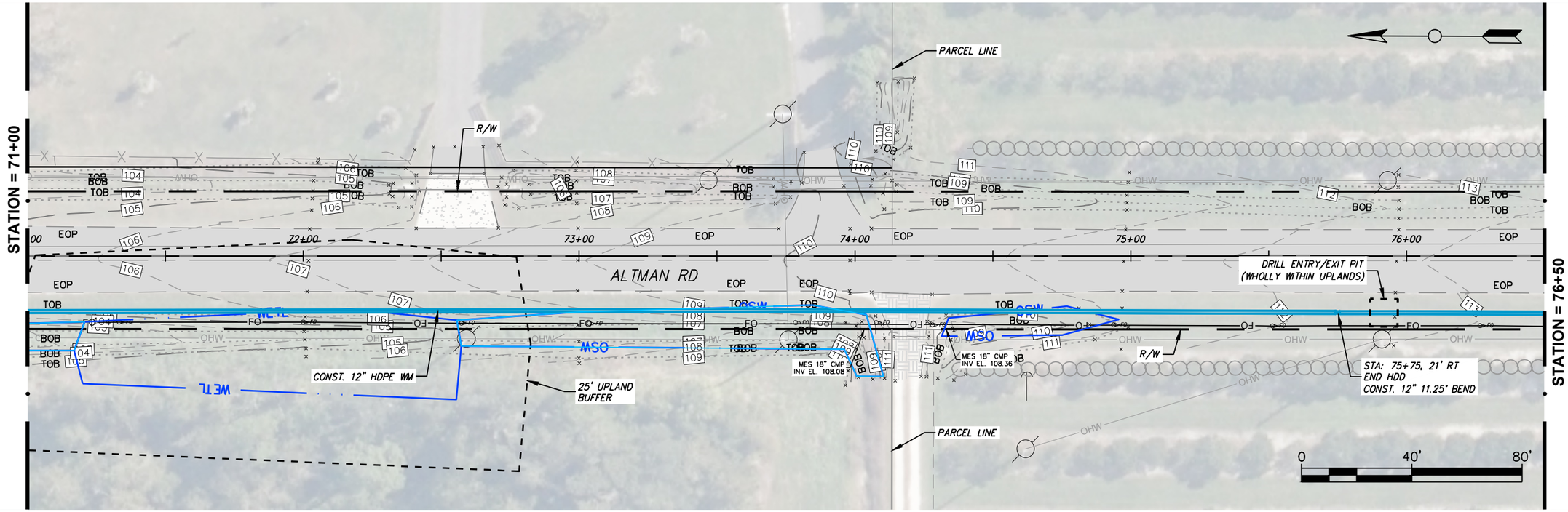
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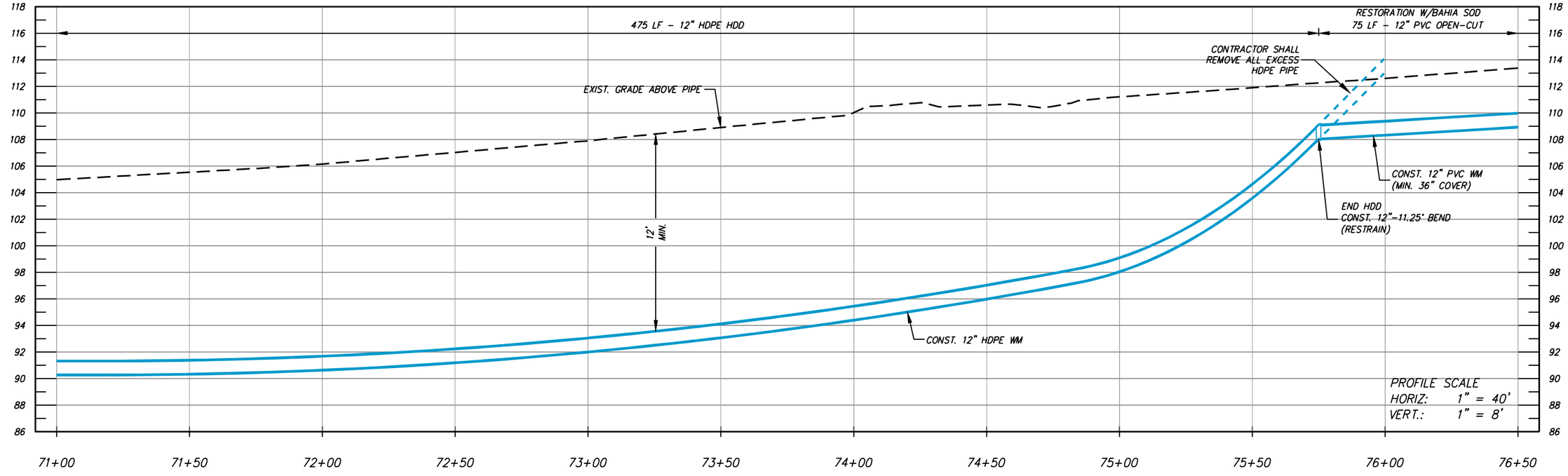
ENGINEER: VAUGHAN S. LEER, P.E.
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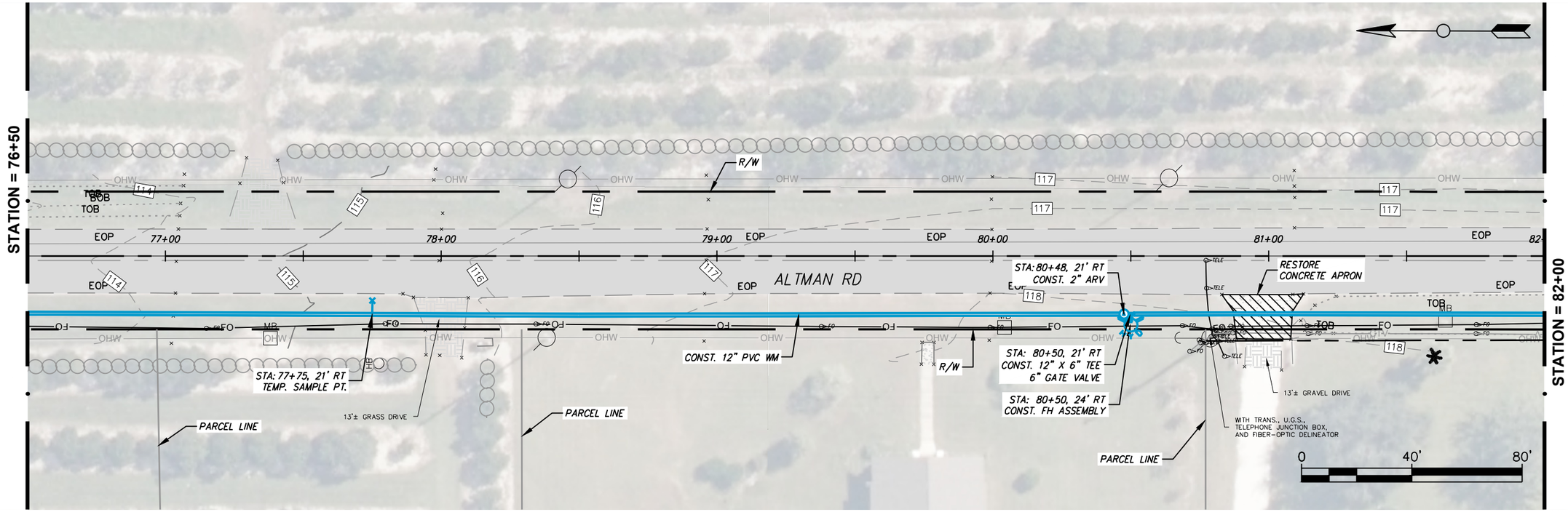
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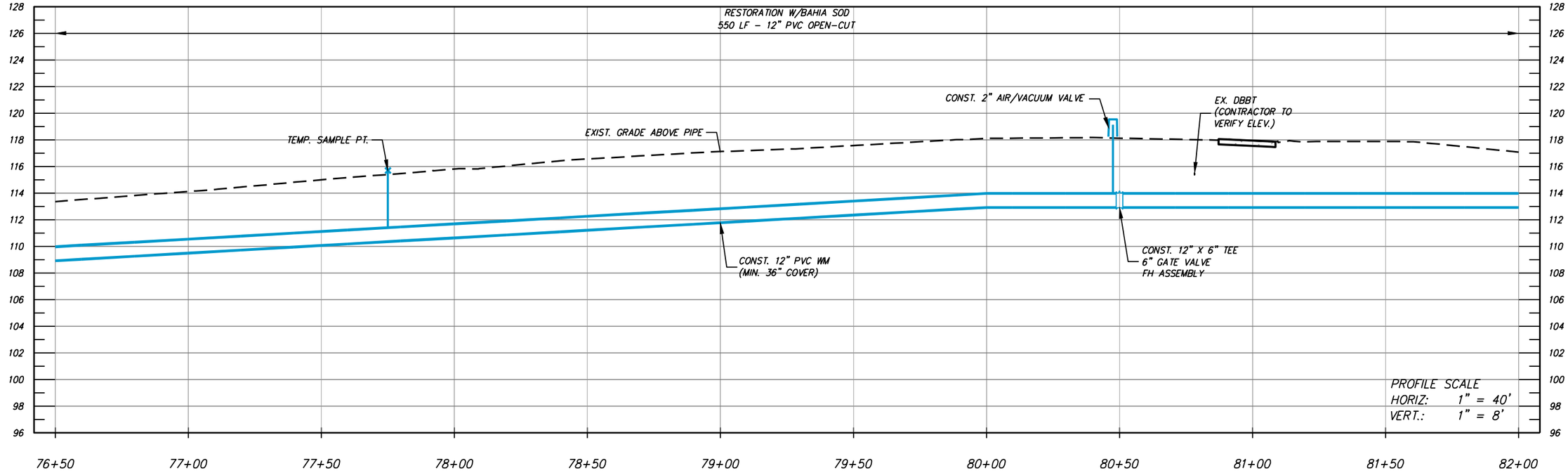
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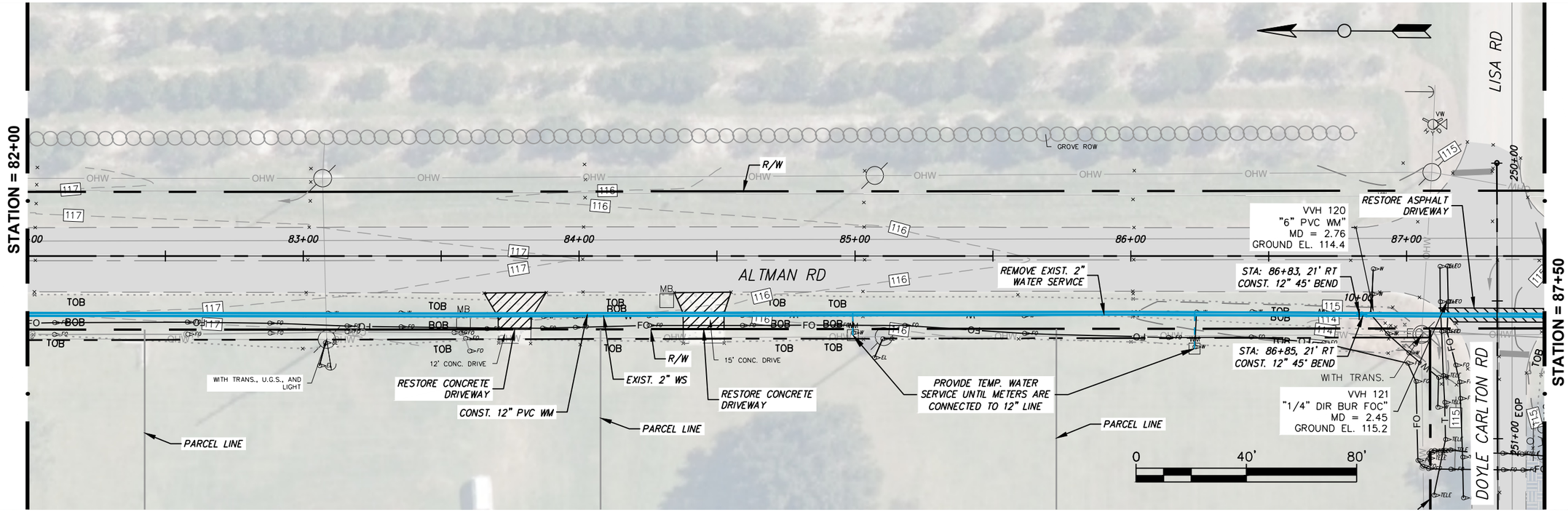
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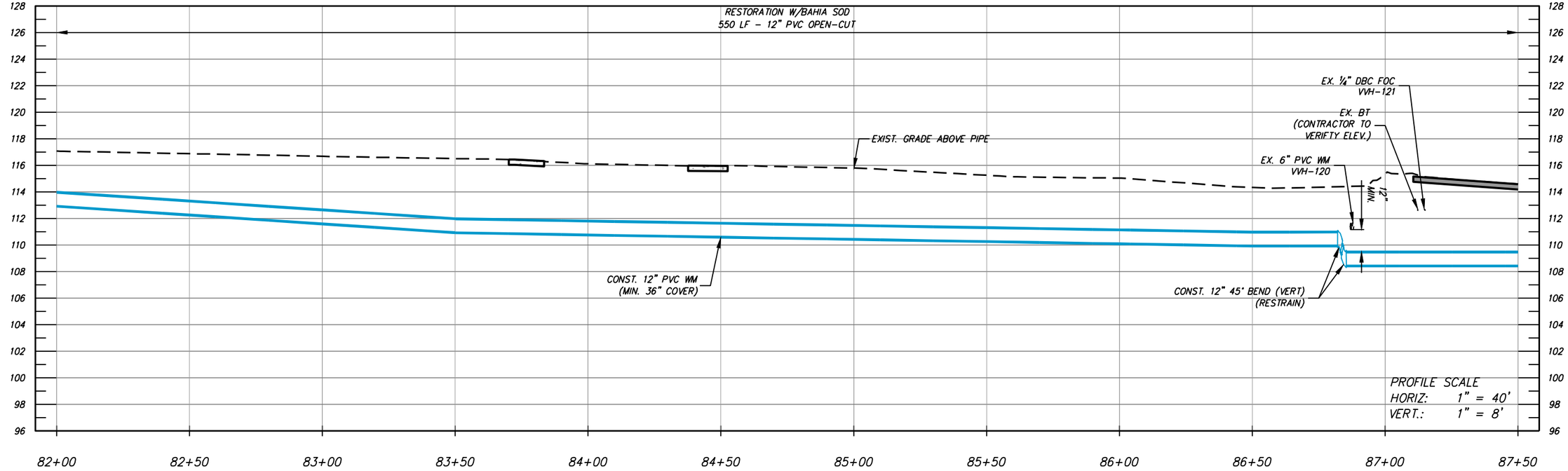
ENGINEER: VAUGHAN S. LEER, P.E.
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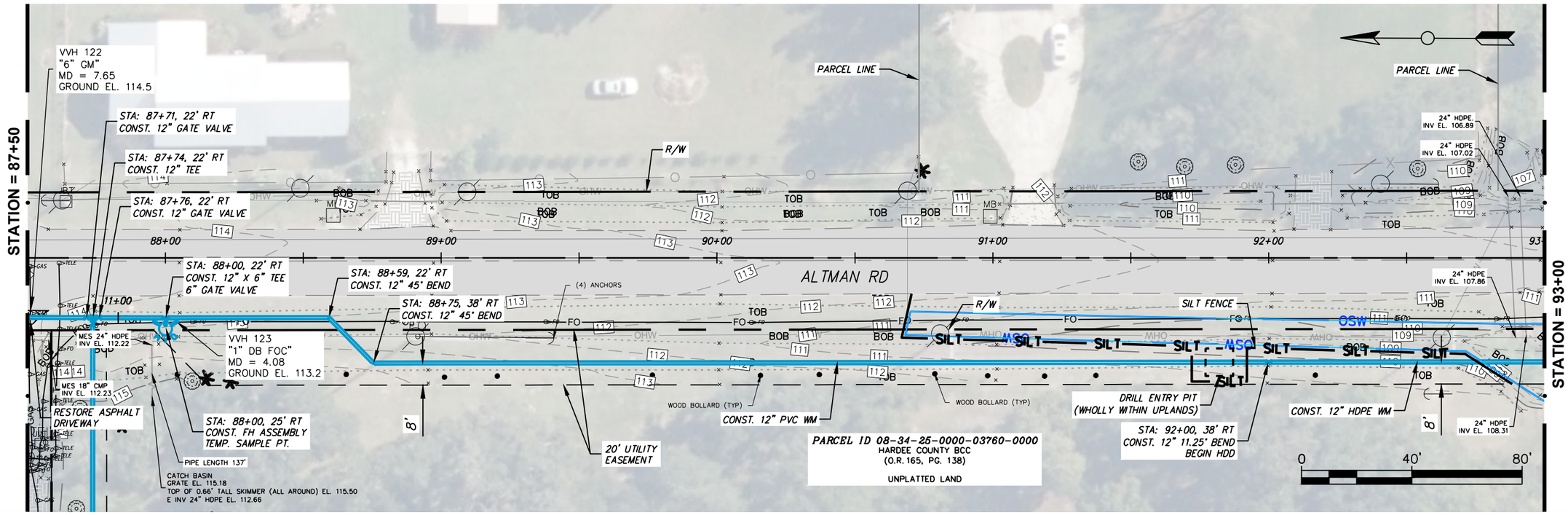
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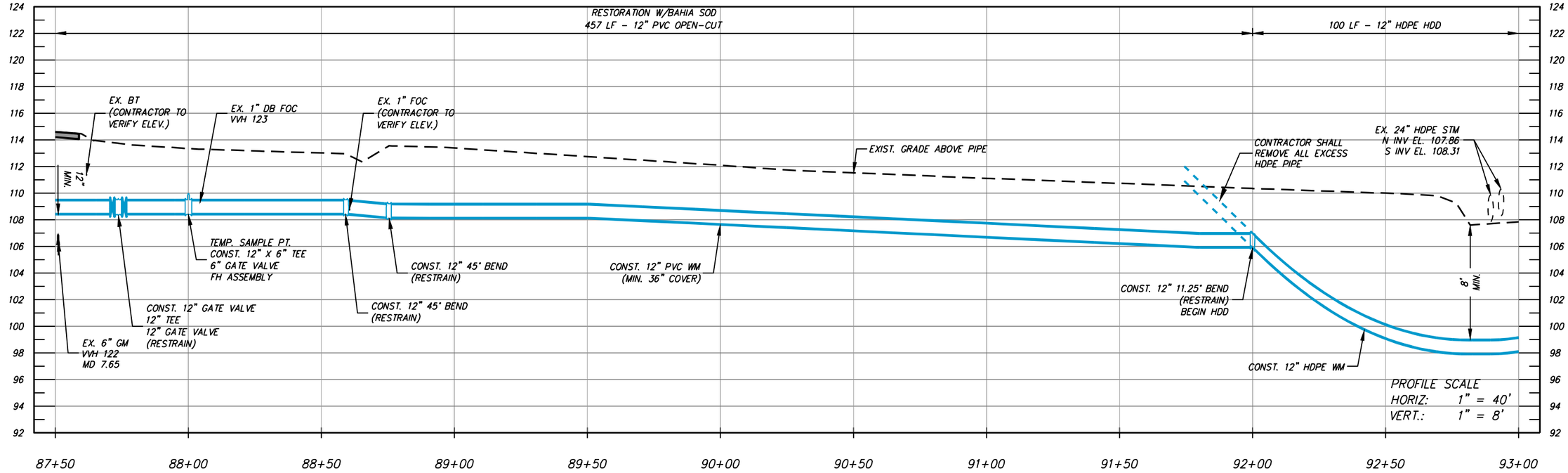
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-14

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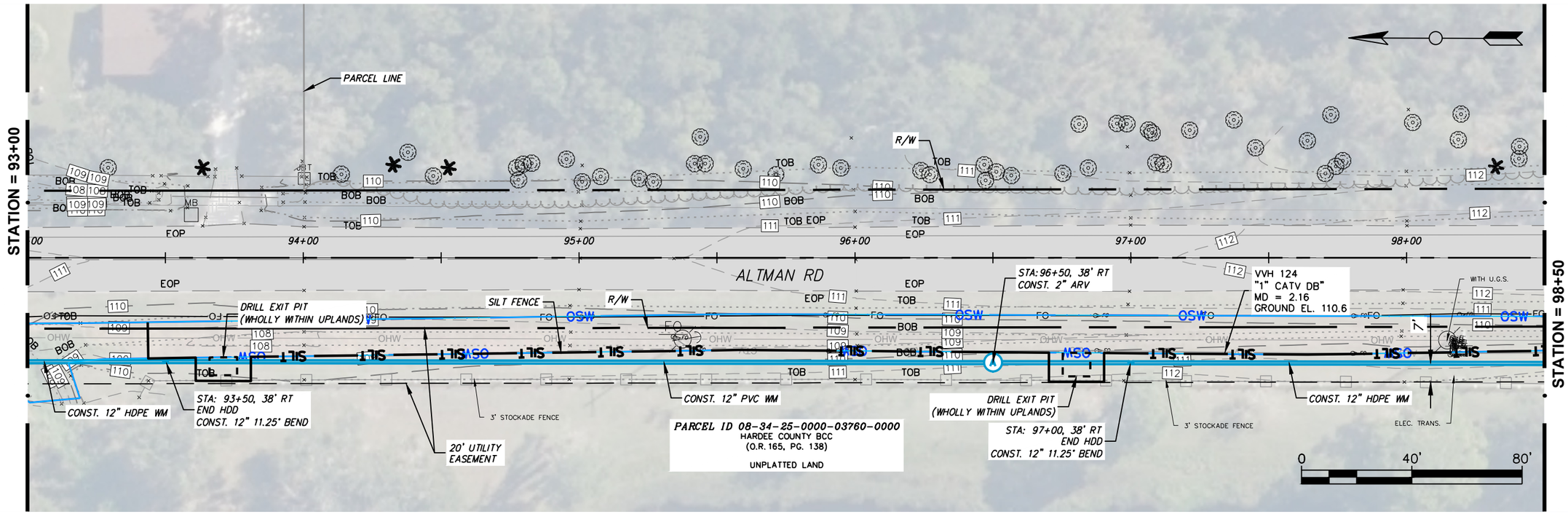
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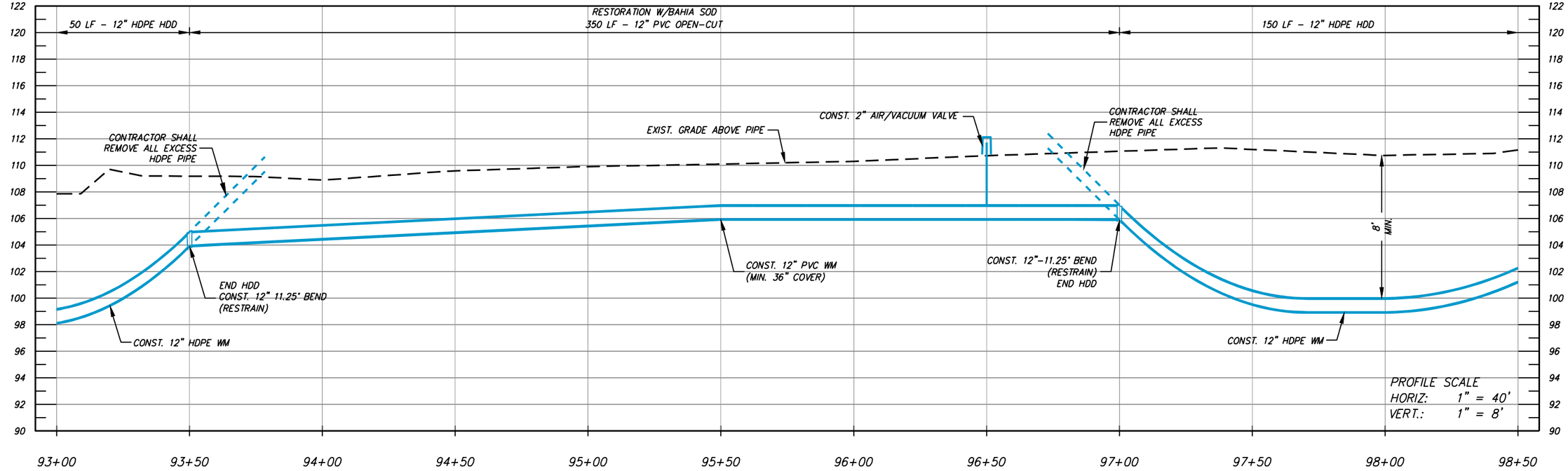
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-15

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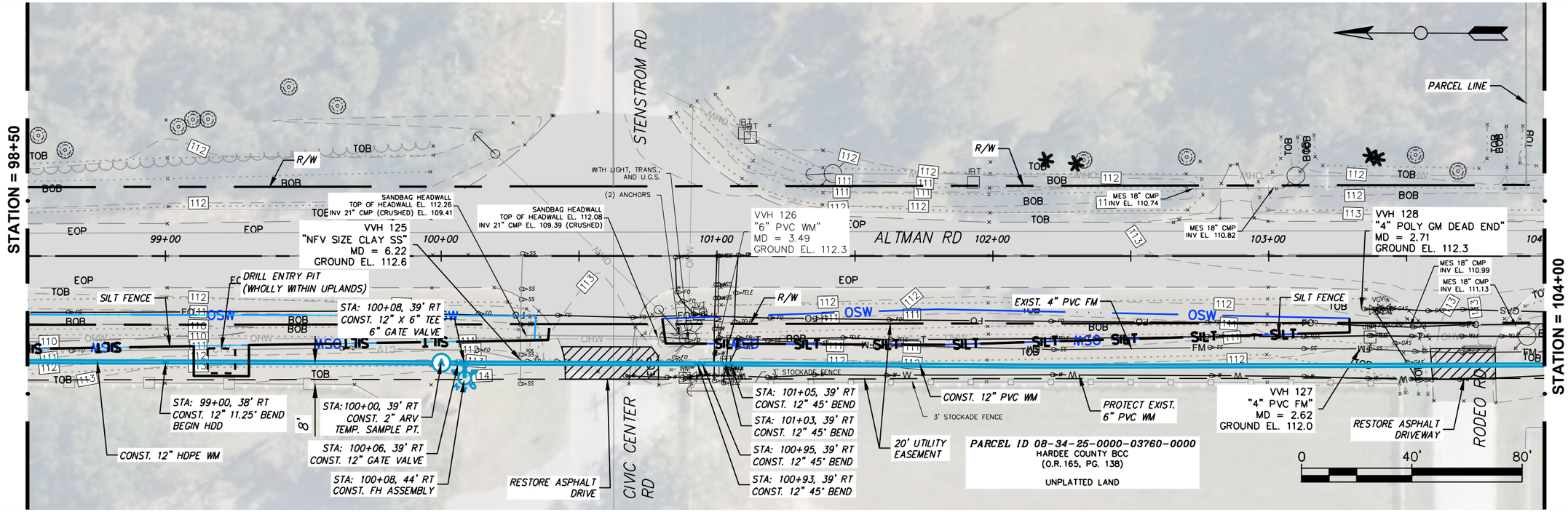
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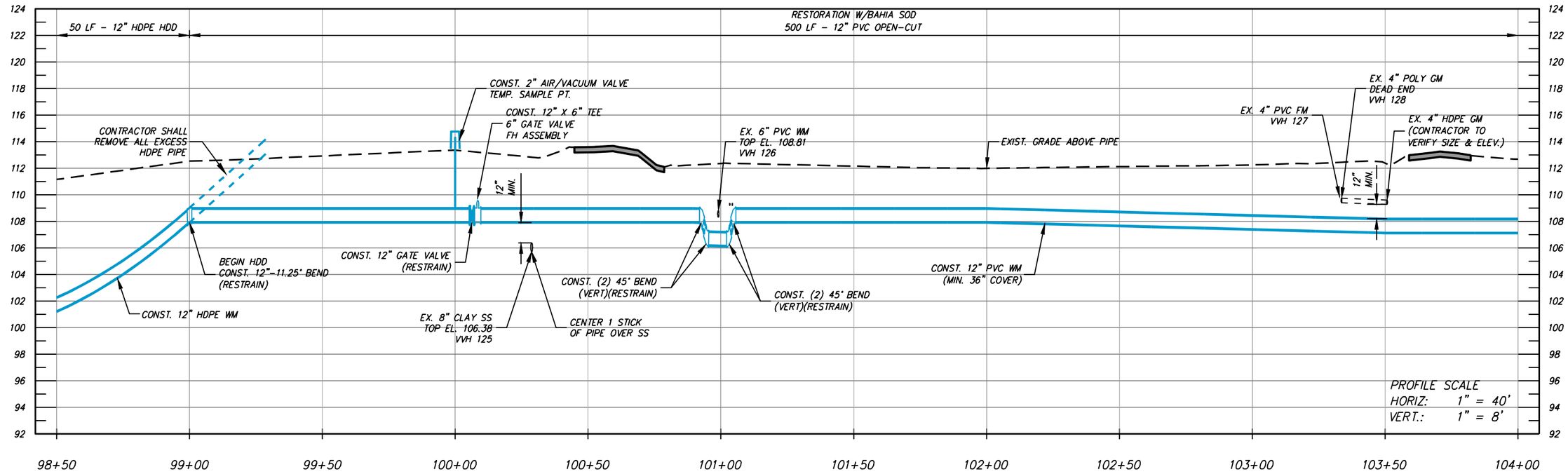
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-16

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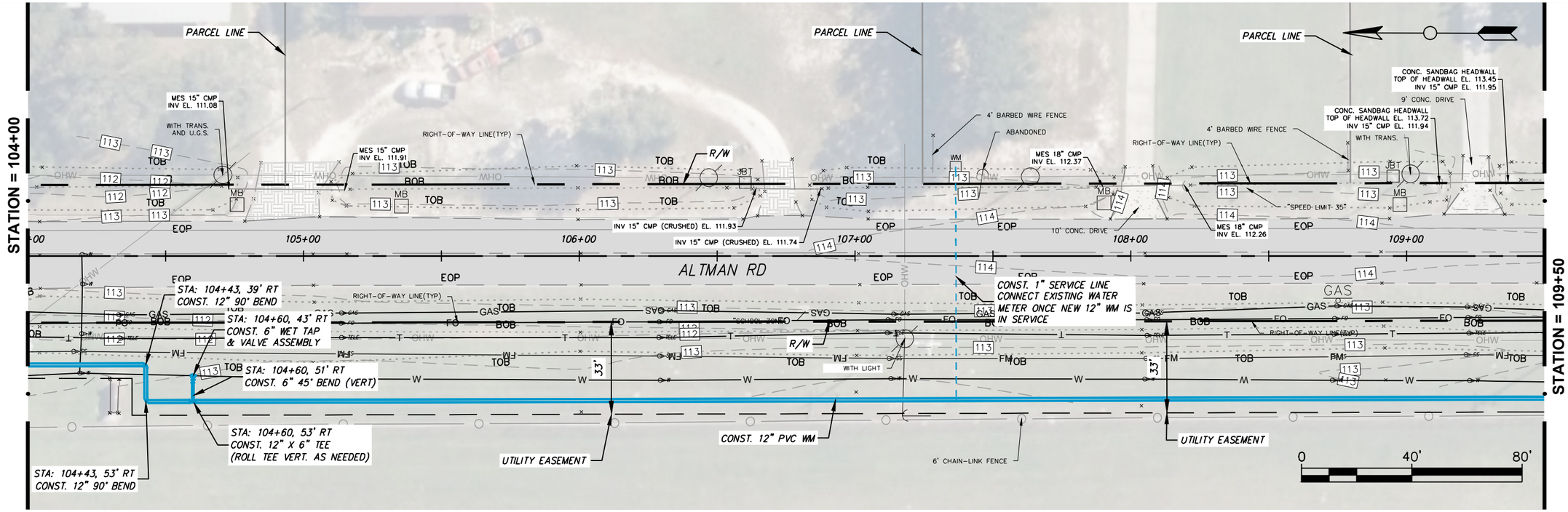
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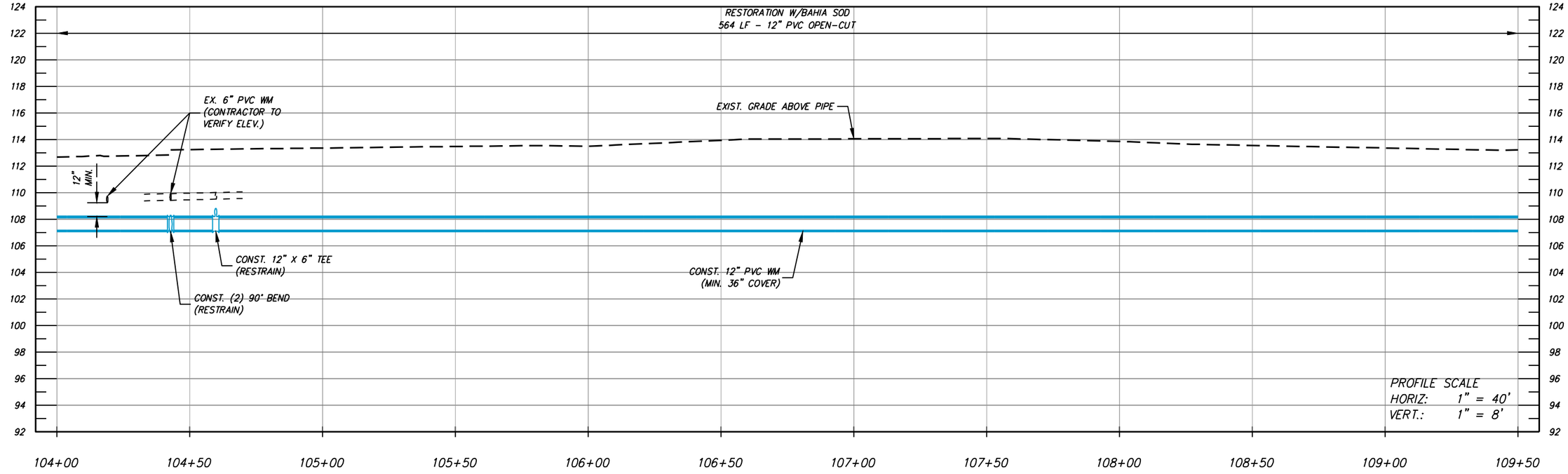
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-17

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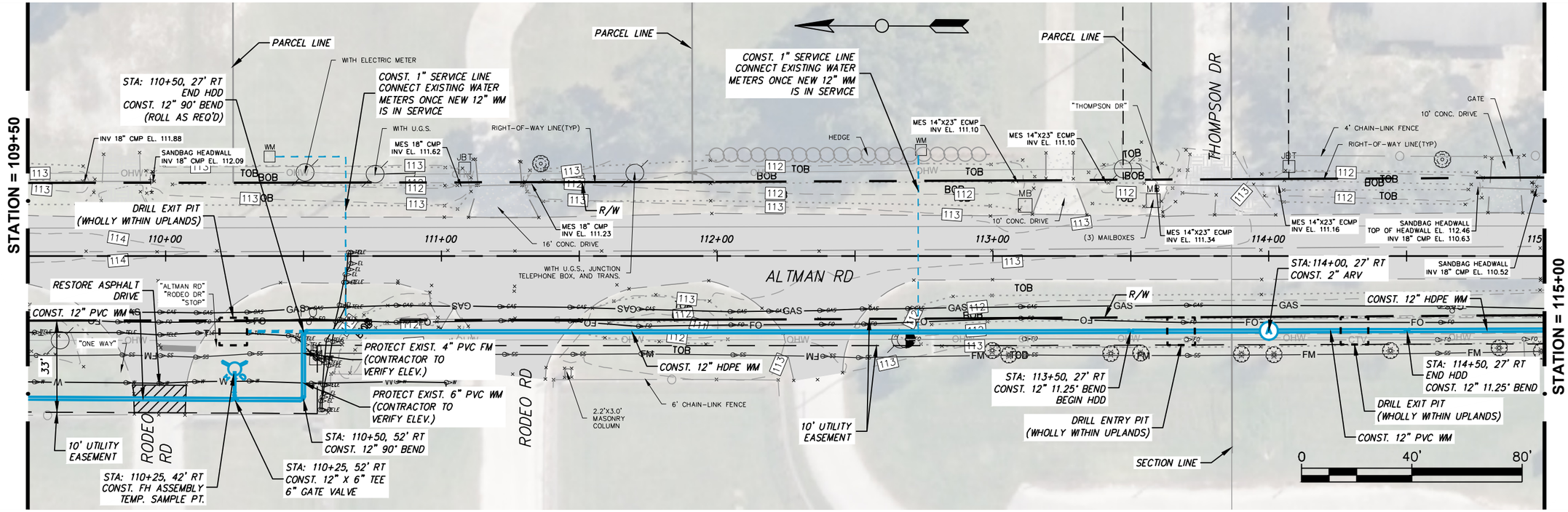
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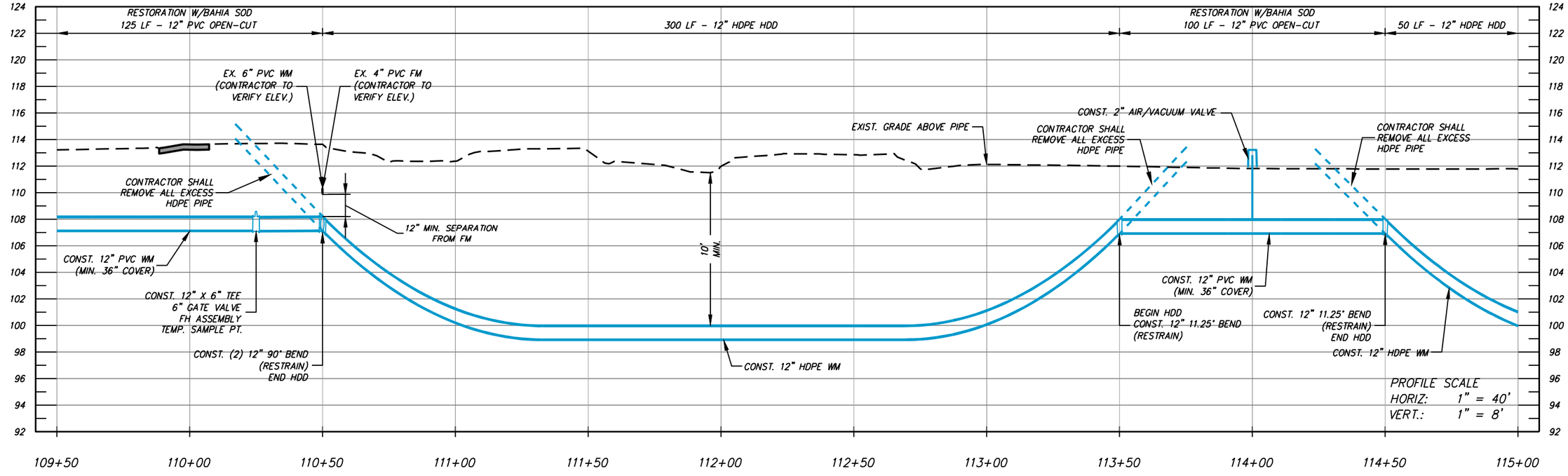
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-18

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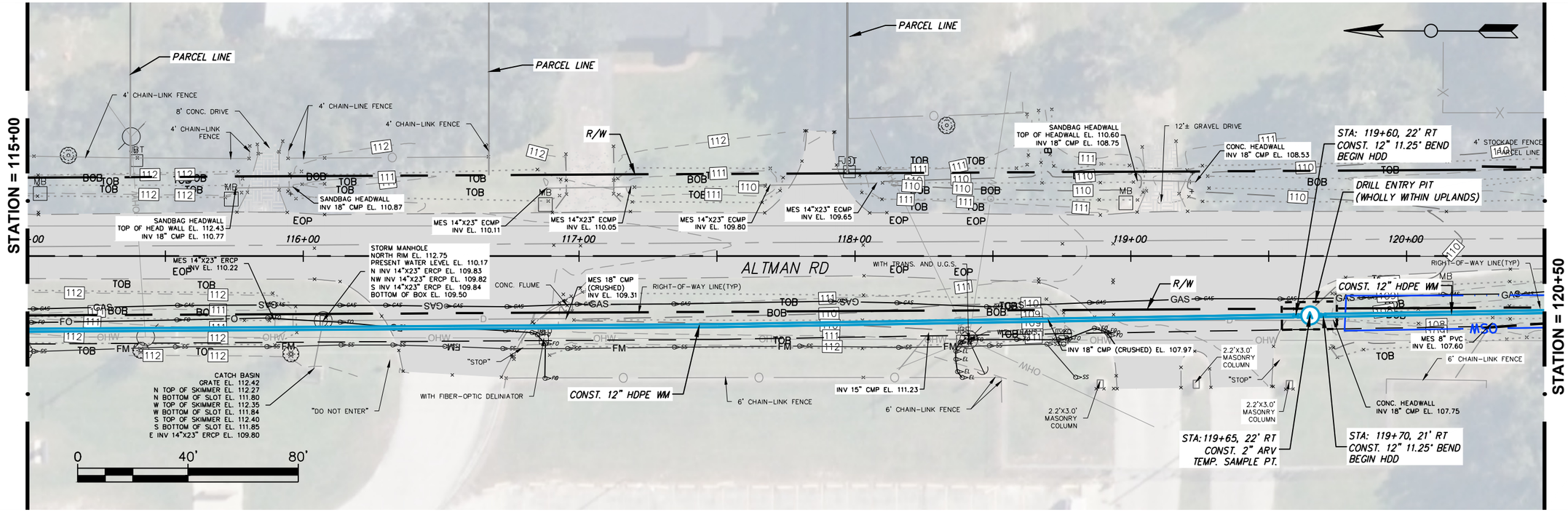
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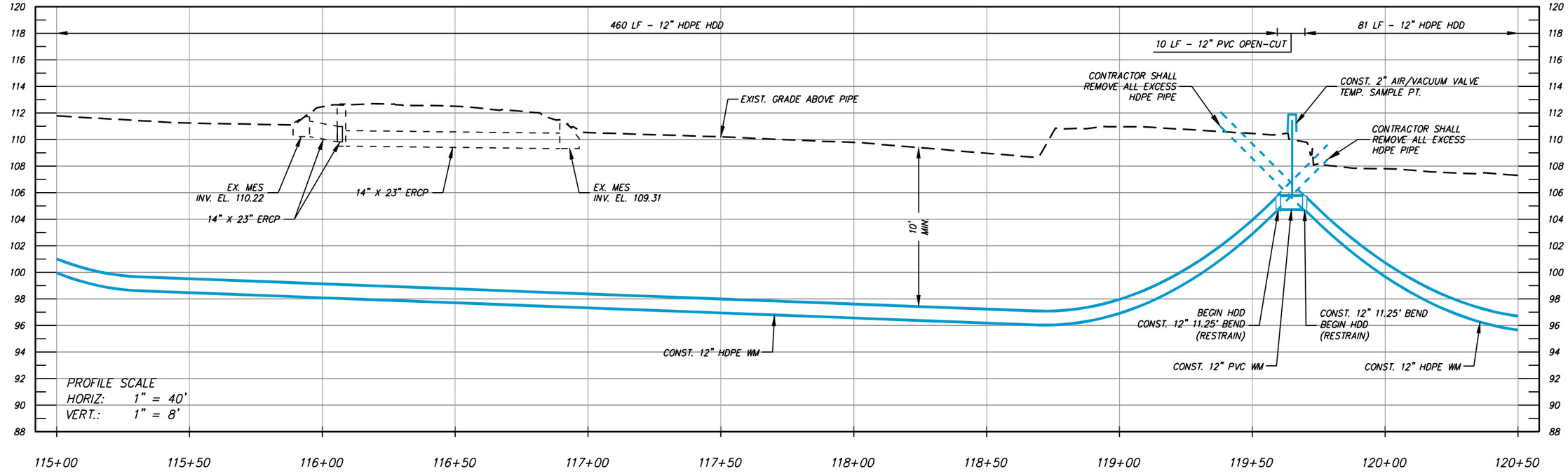
ENGINEER: VAUGHAN S. LEER, P.E.
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-19

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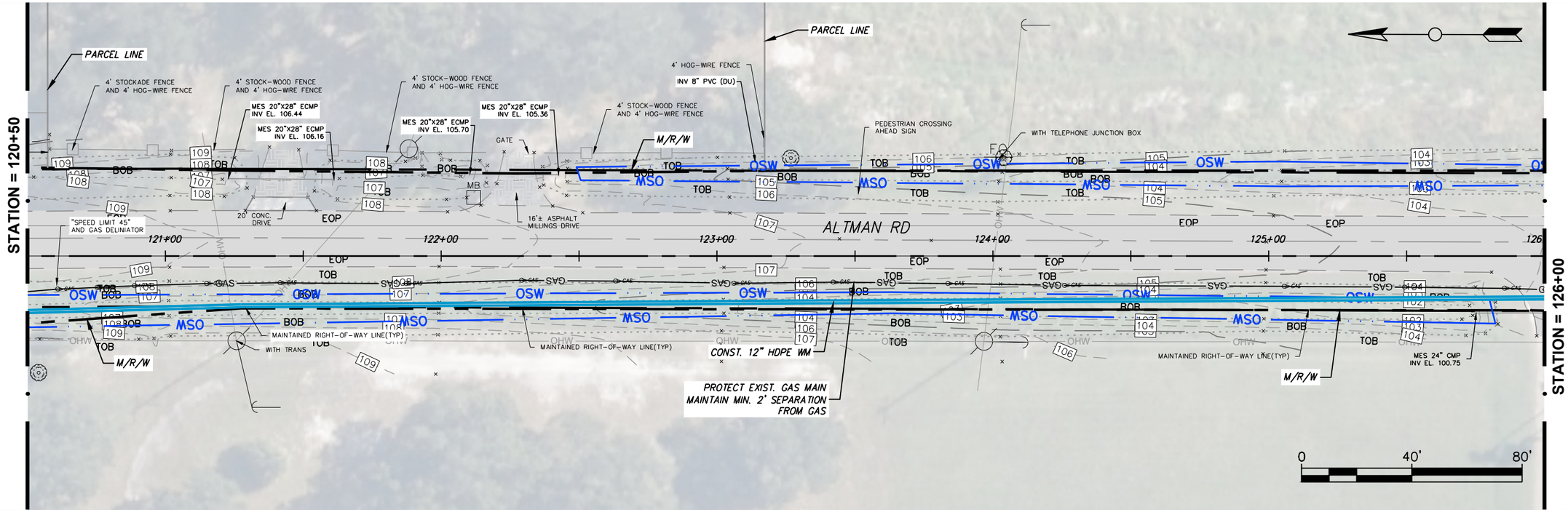
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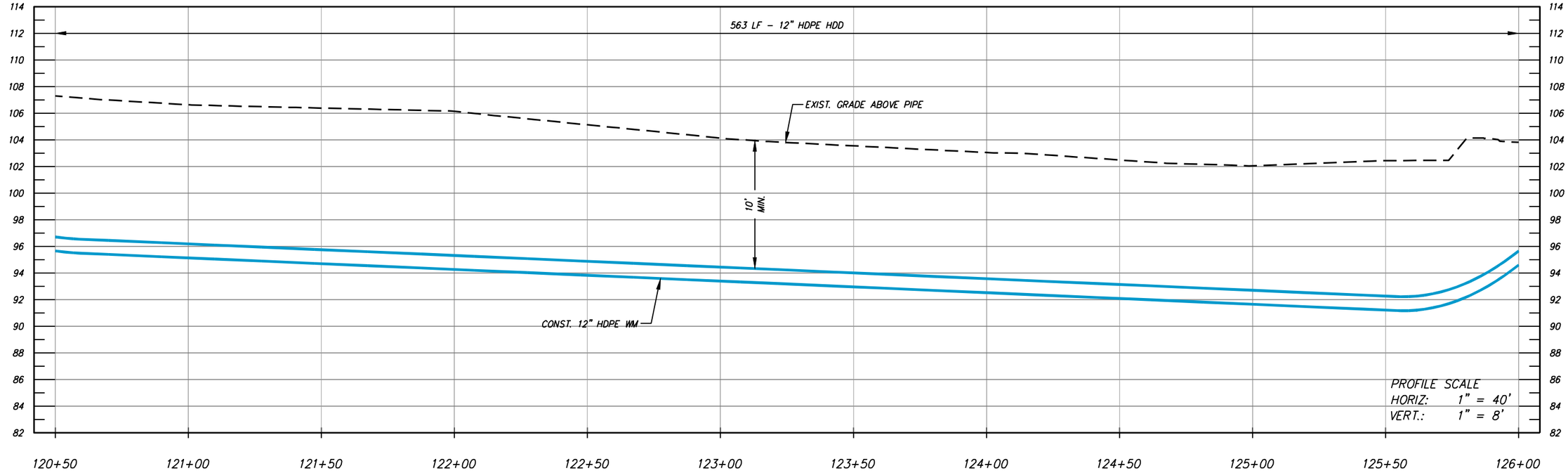
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-20

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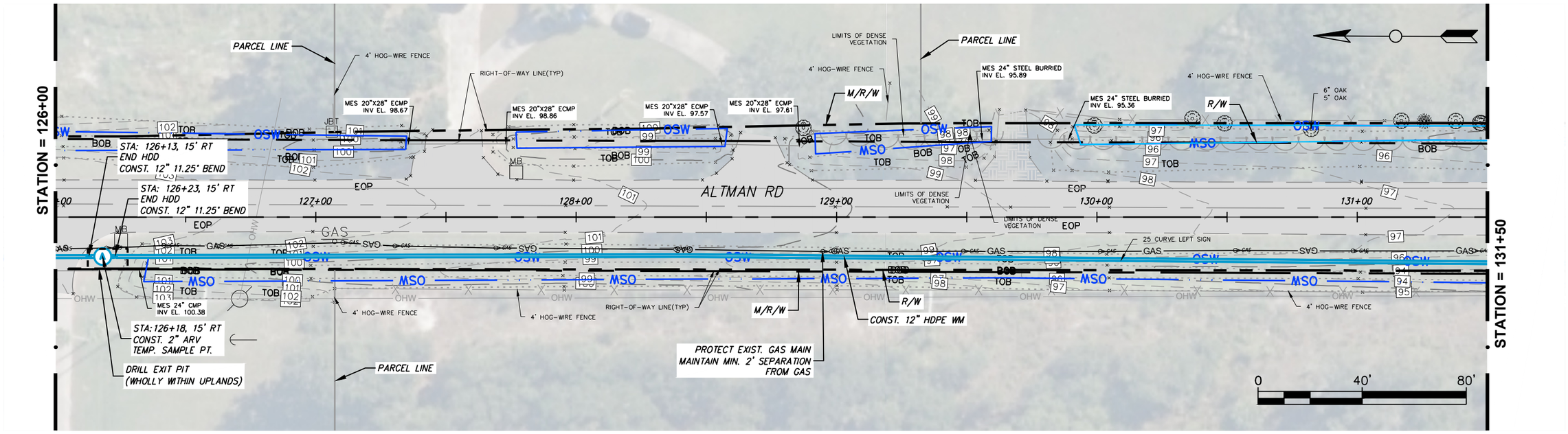
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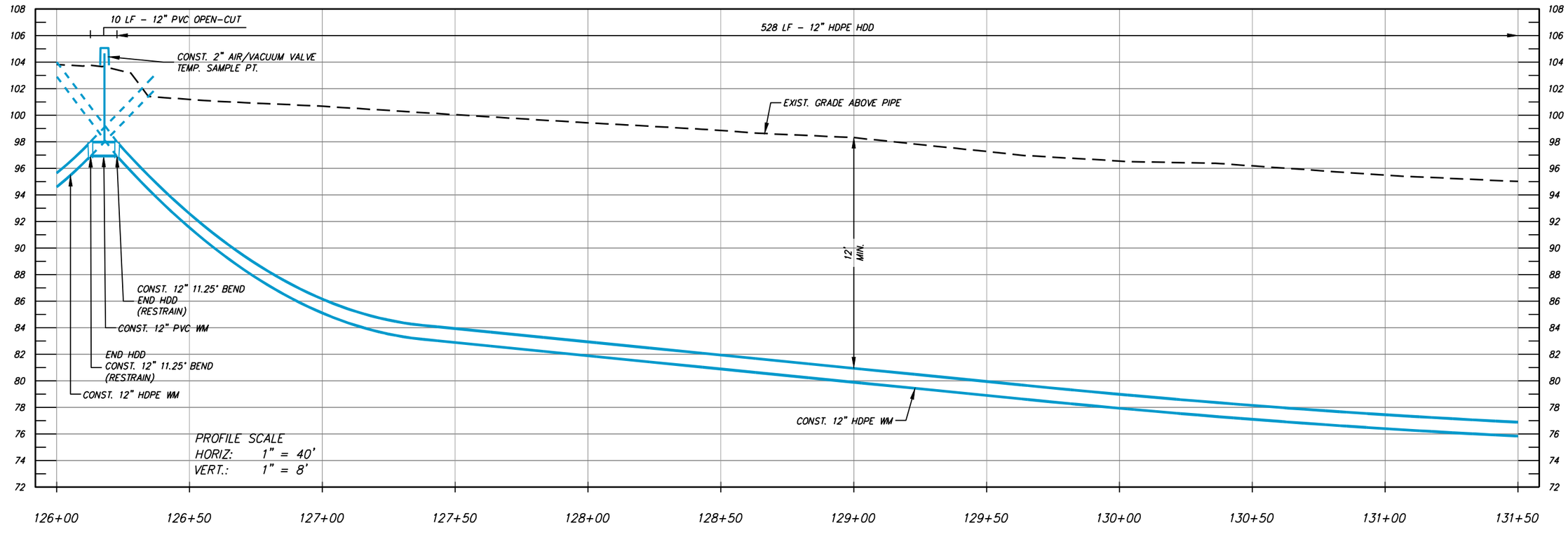
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-21

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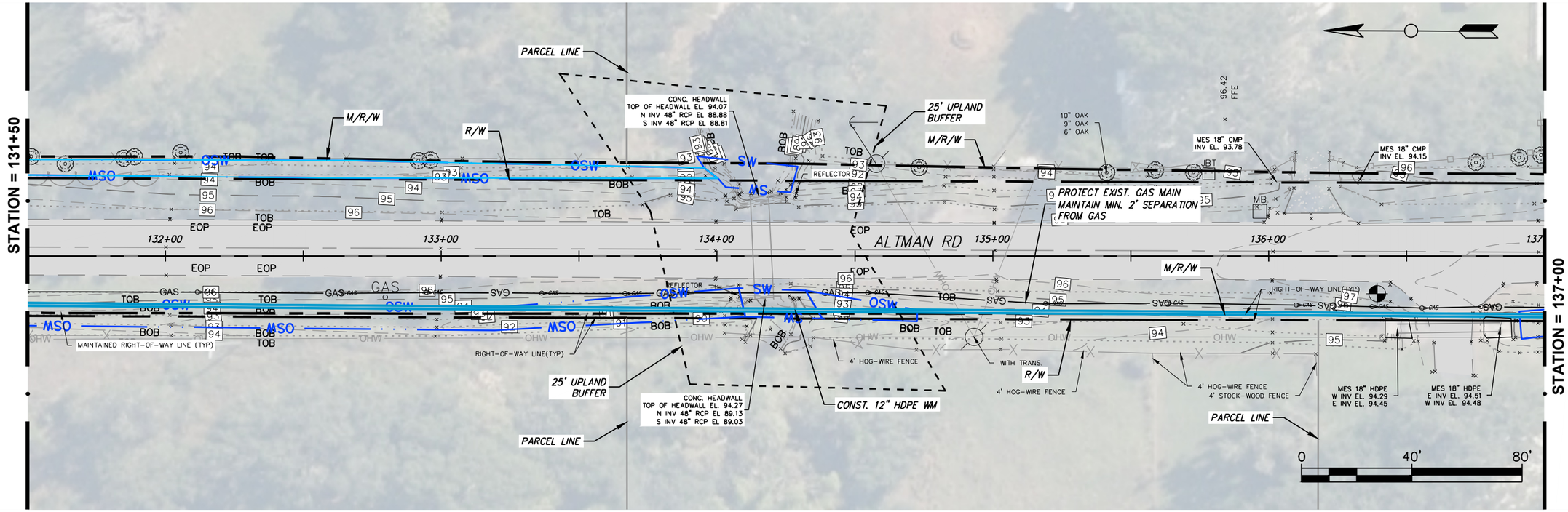
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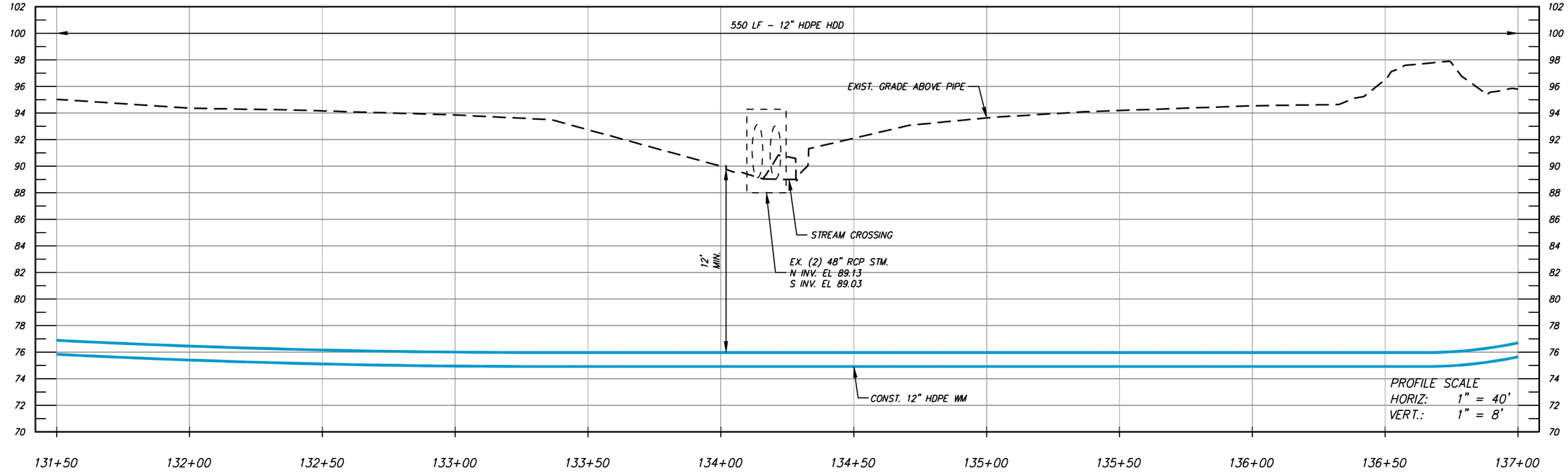
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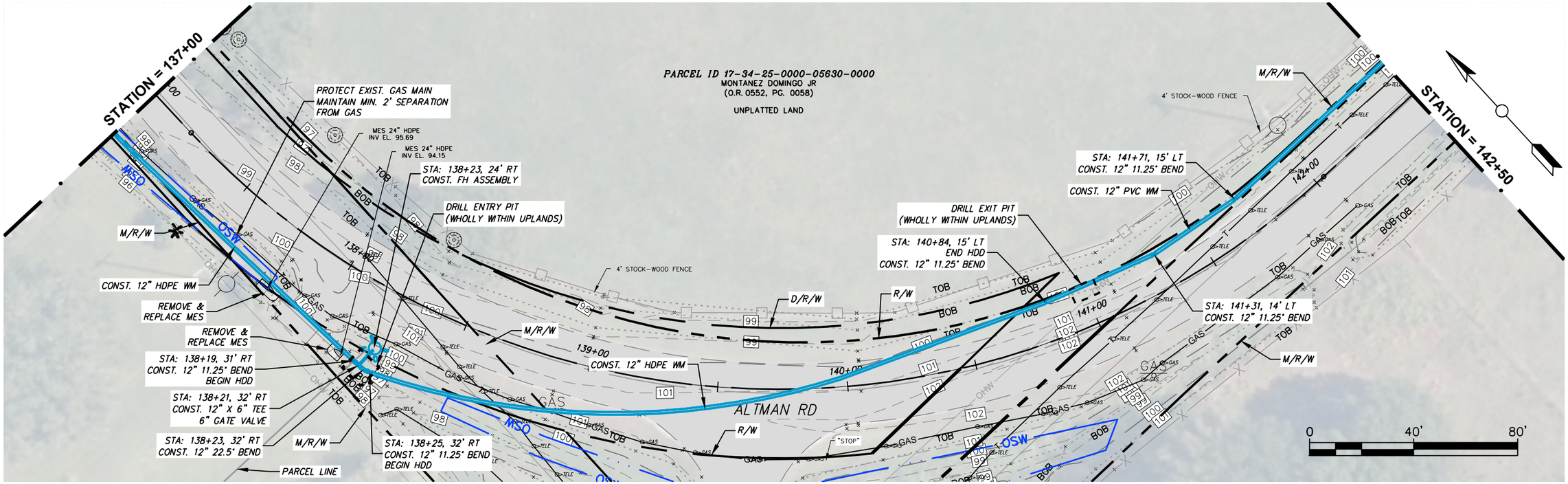
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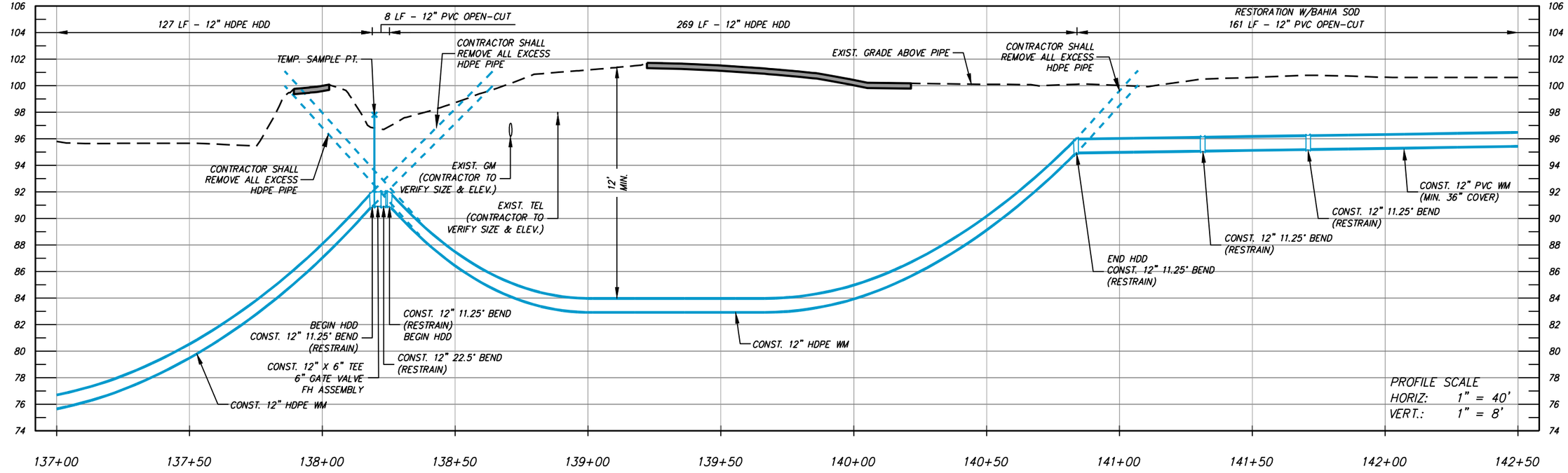
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PROJECT NUMBER: 10371.03

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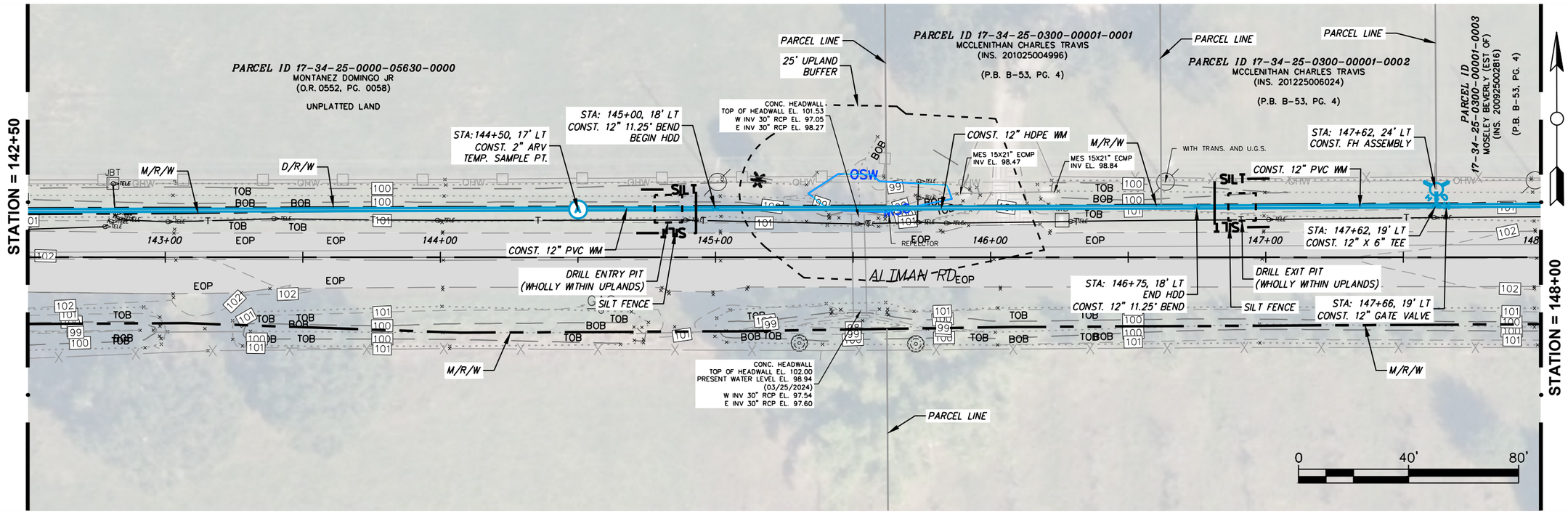
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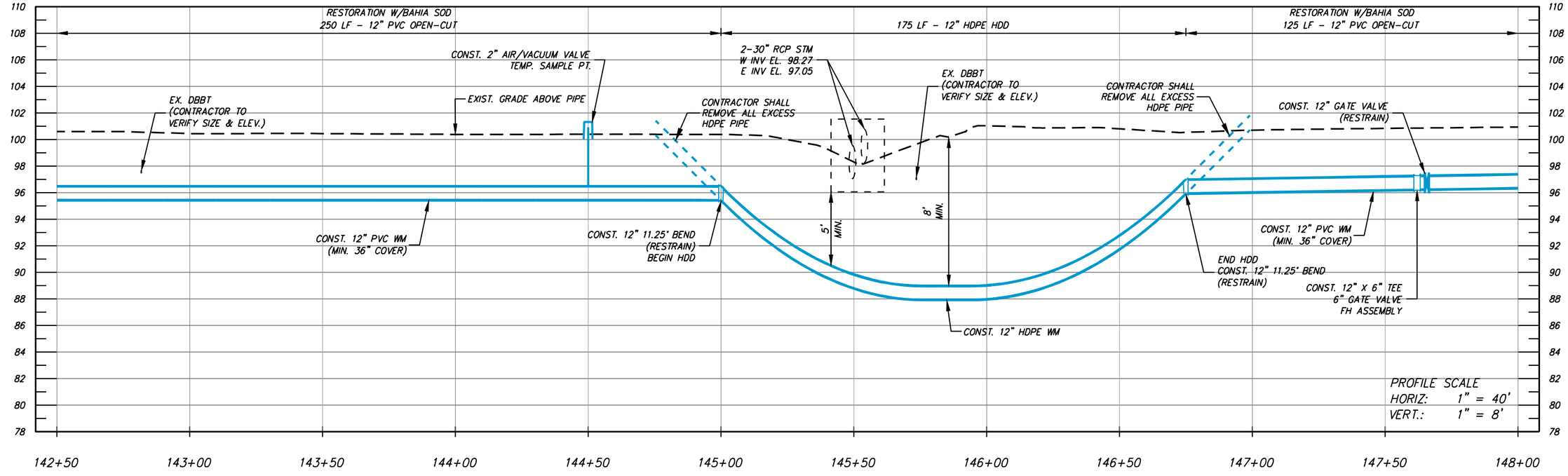
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-24

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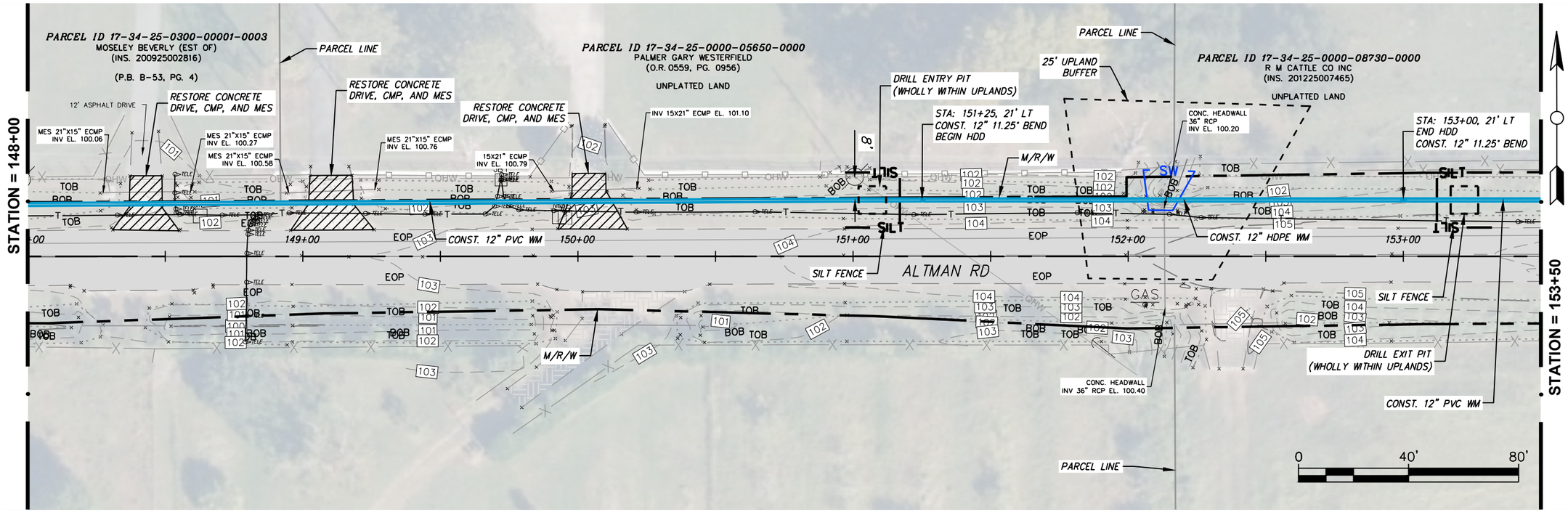
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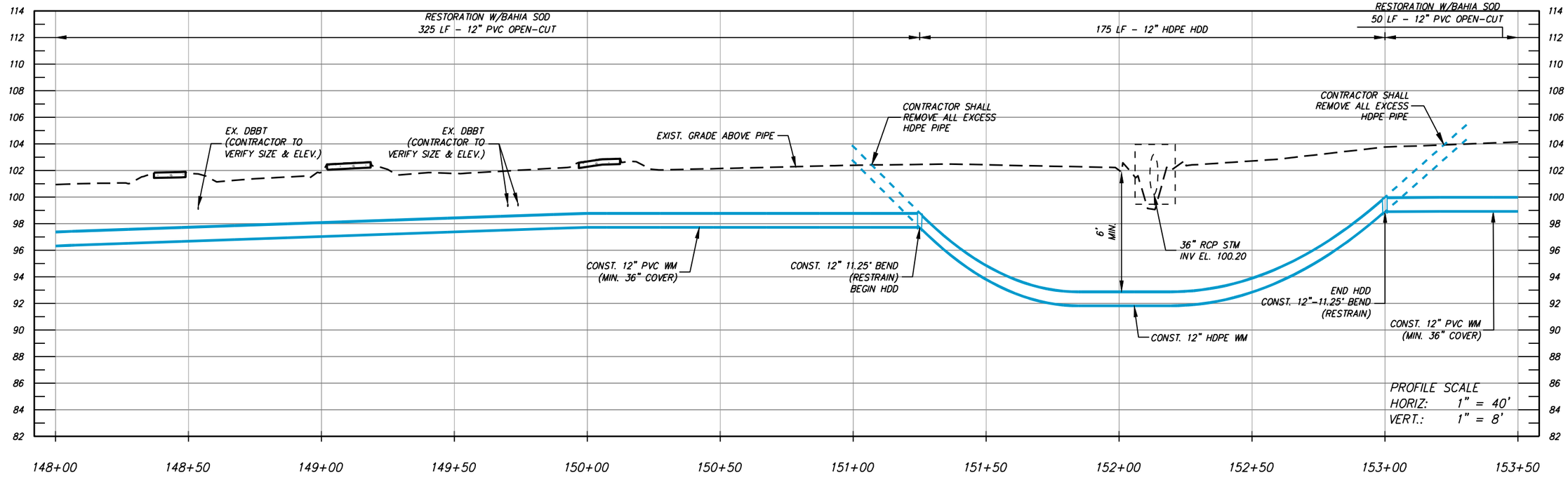
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PROJECT NUMBER: 10371.03

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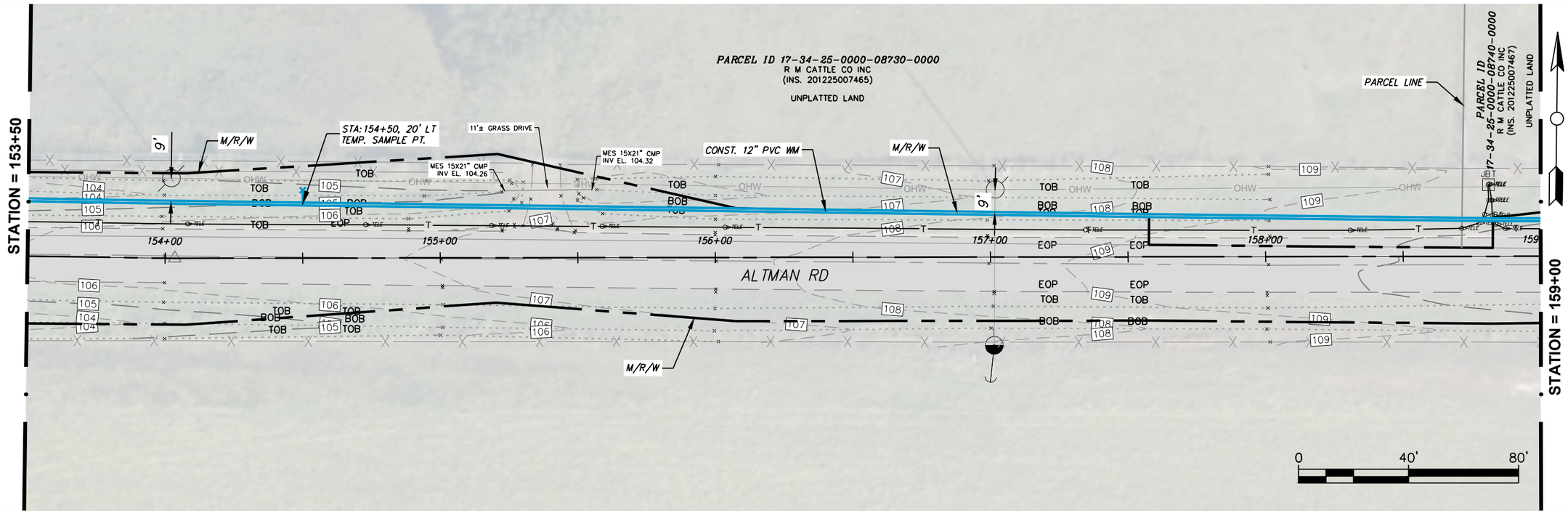
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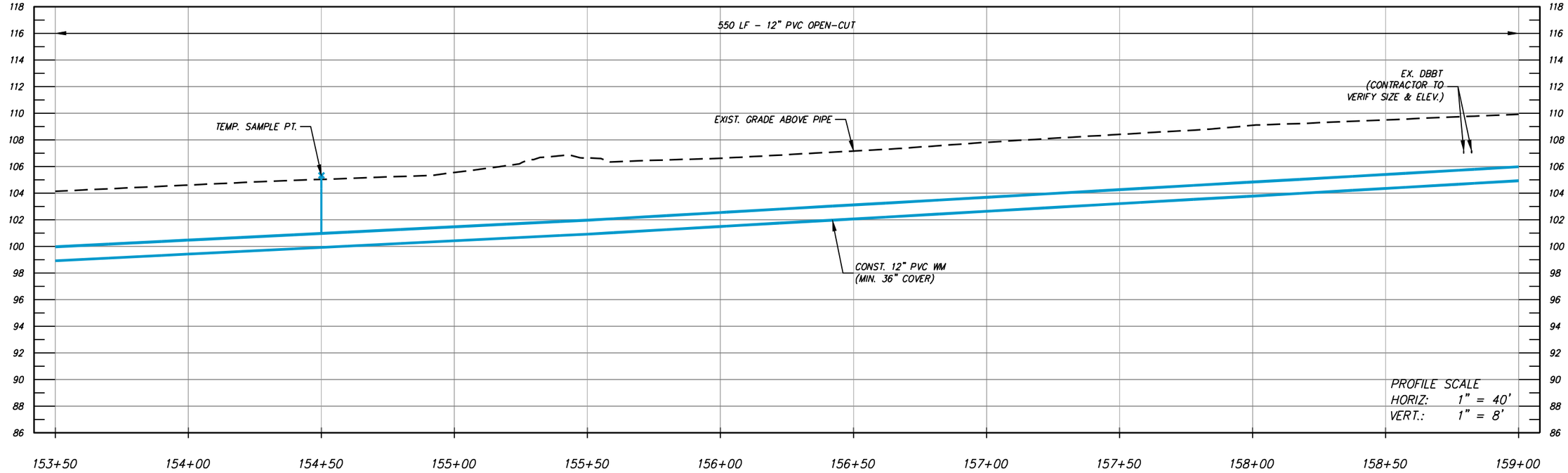
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PROJECT NUMBER: 10371.03

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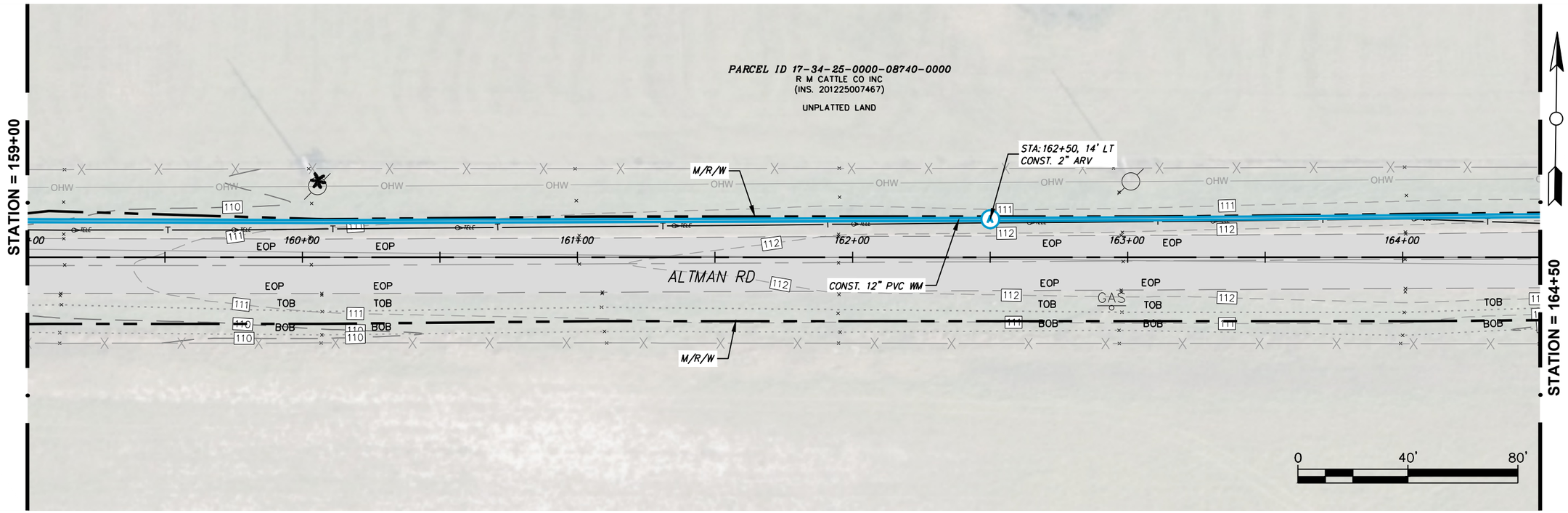
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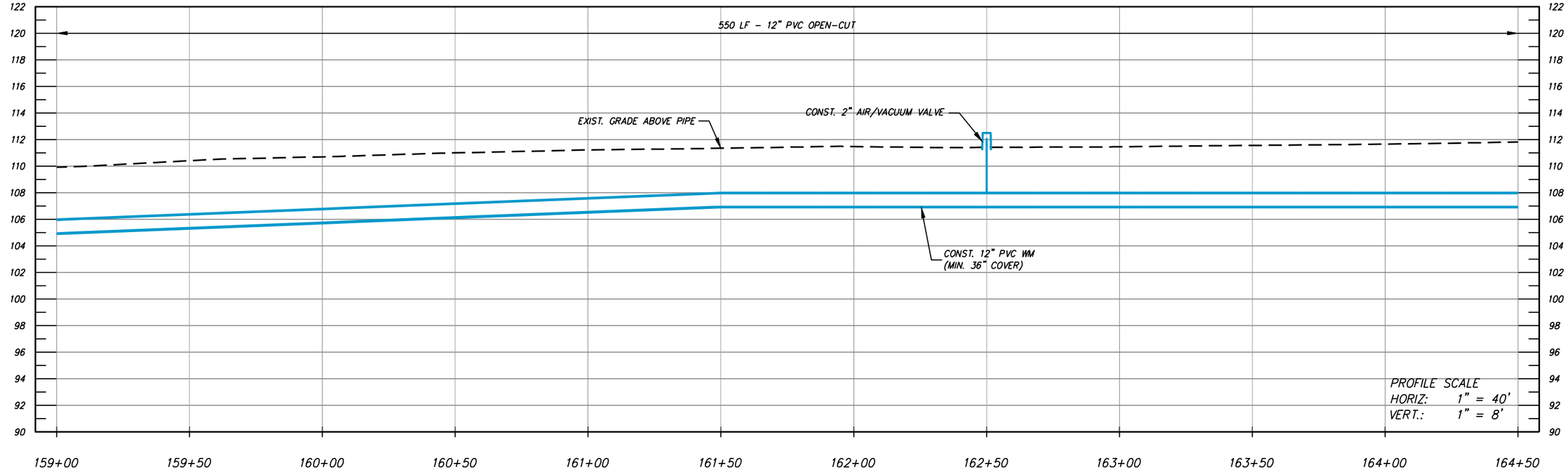
ENGINEER: VAUGHAN S. LEER, P.E.
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SHEET NUMBER: PP-27

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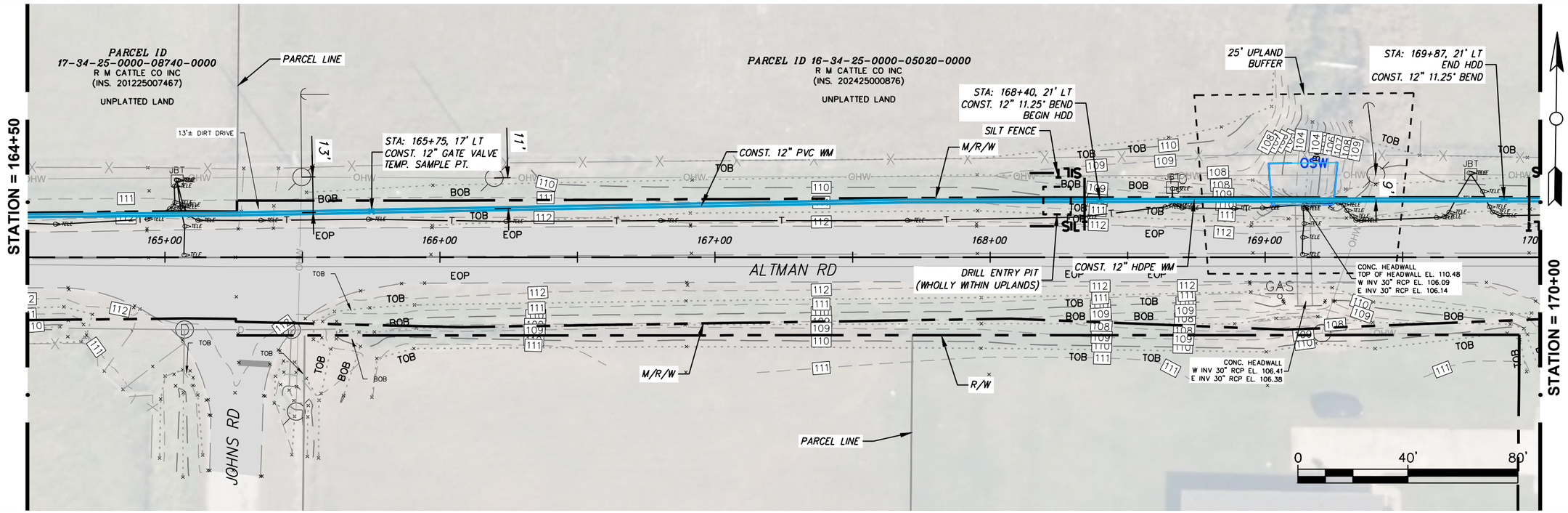
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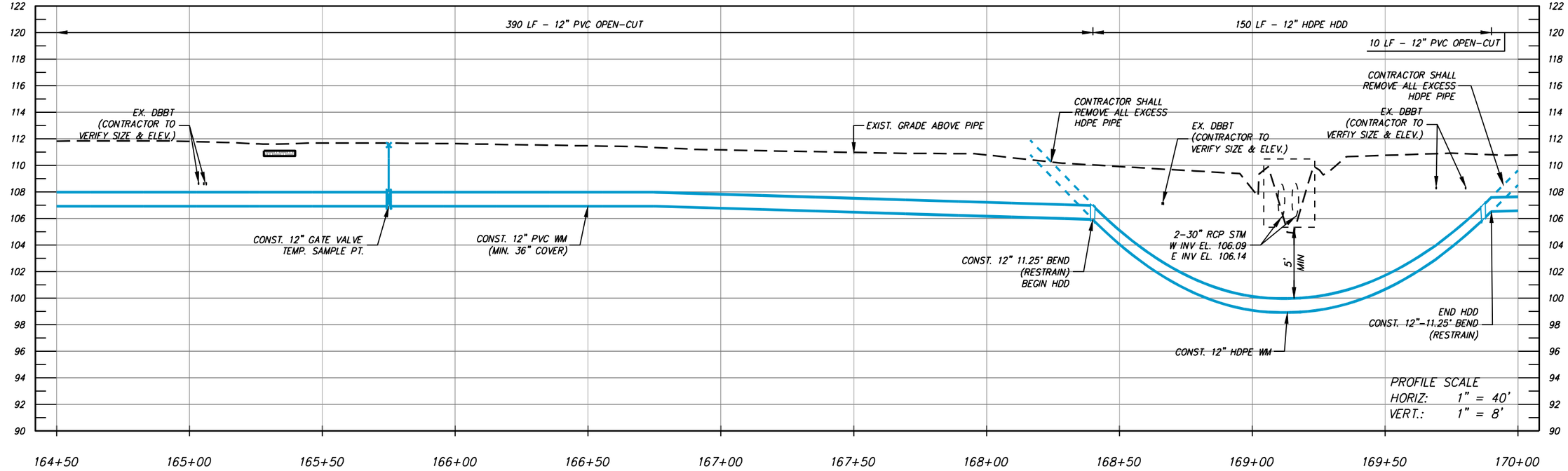
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PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-28

P:\10371\03\CAD\Water\10371\03\Production Drawings\10371\03-DEJ-2023-PP.dwg PP-28 Jun 02, 2026 4:16pm by: rcarnathan





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(888) 646-1402

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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
PLAN PROFILES

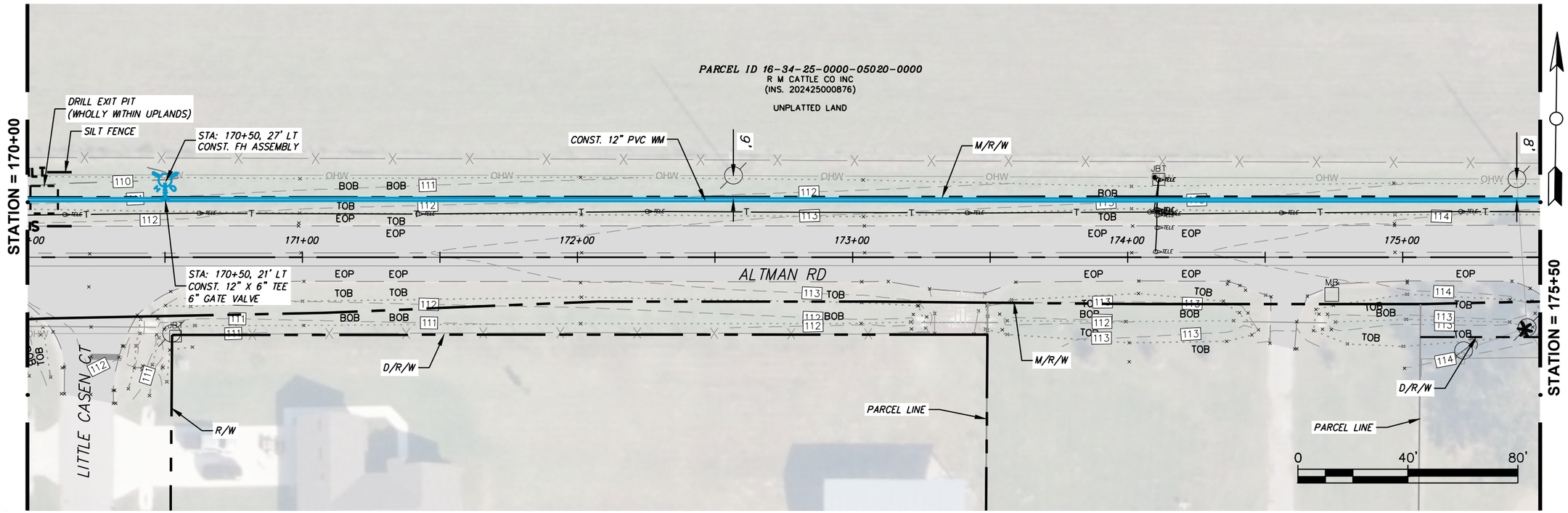
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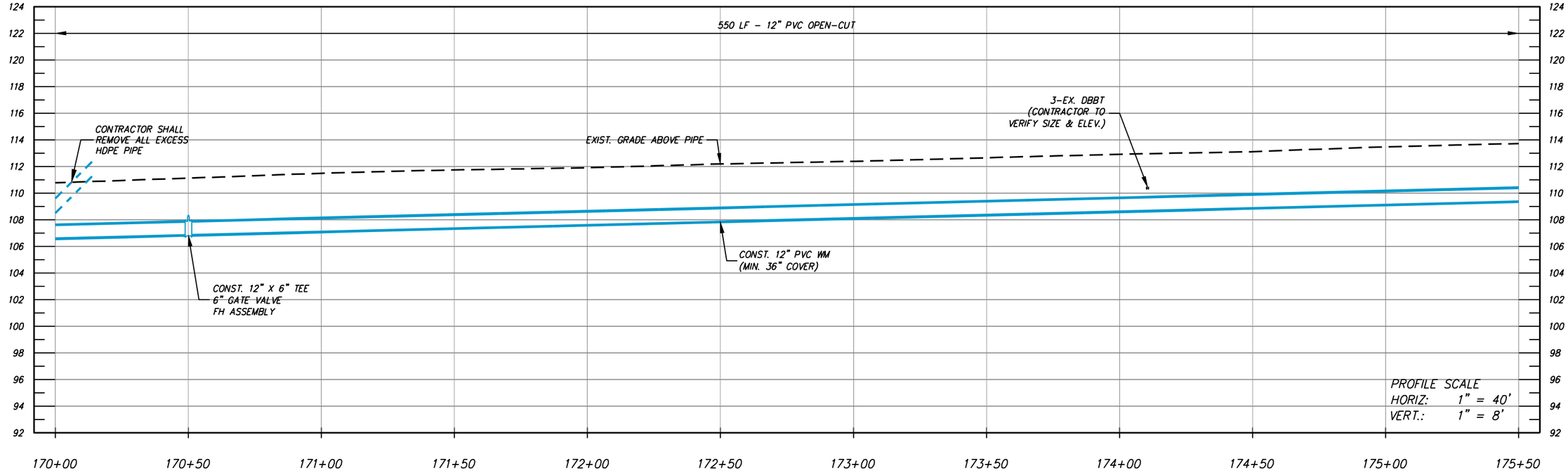
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-29

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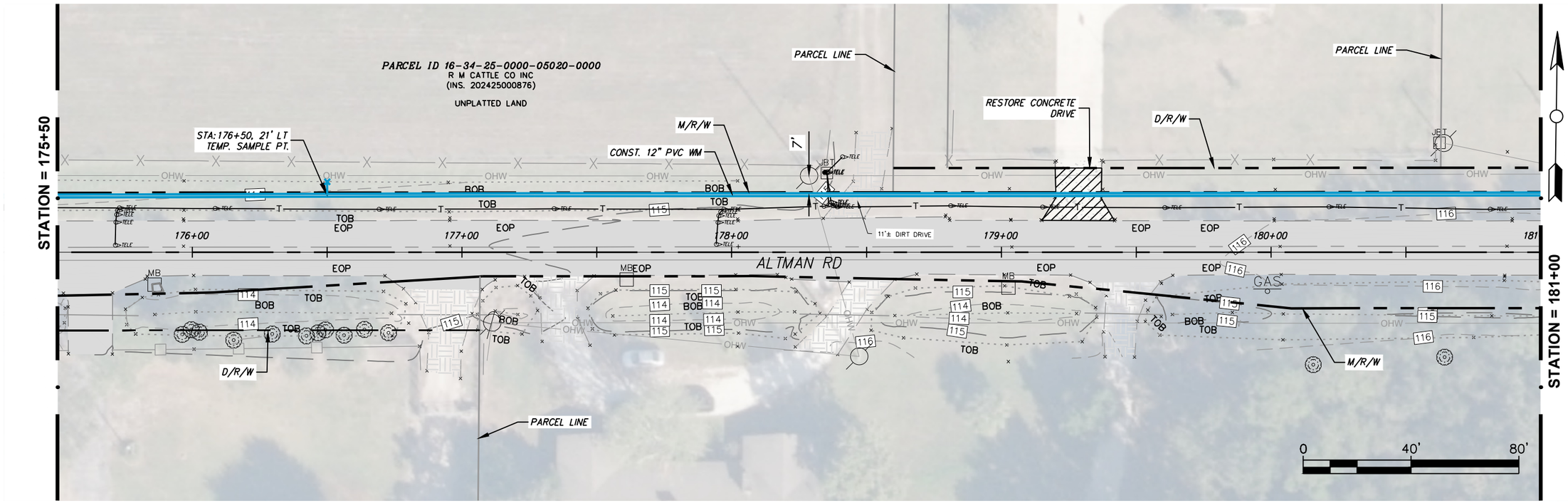
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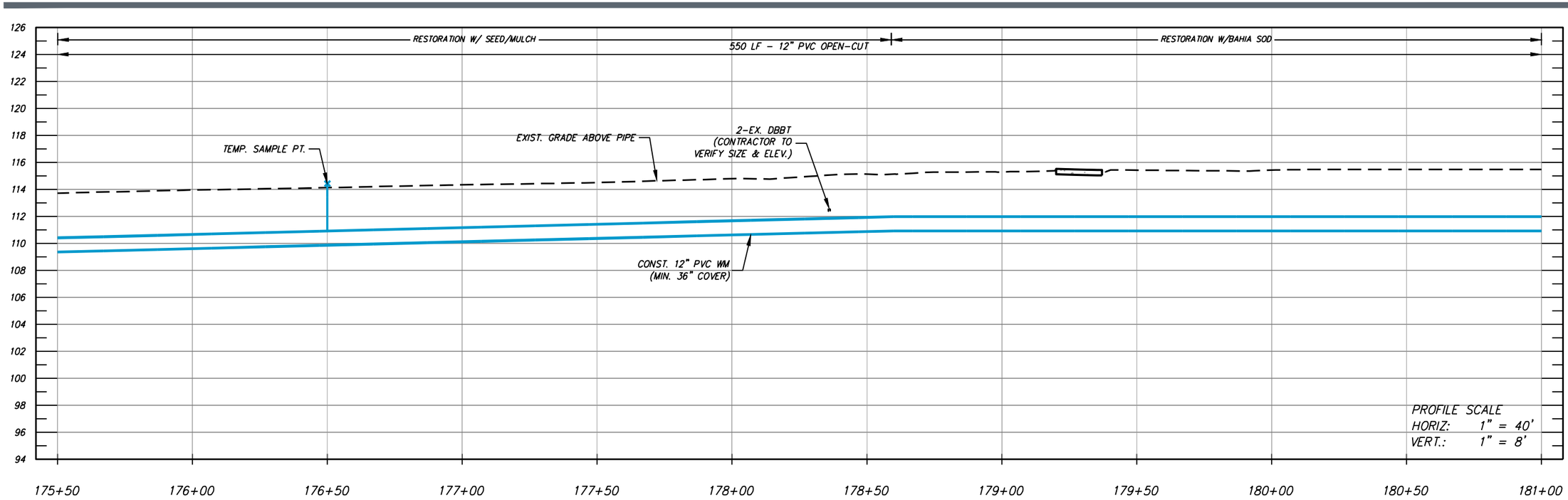
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-30

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NUMBER	DATE	DESCRIPTION
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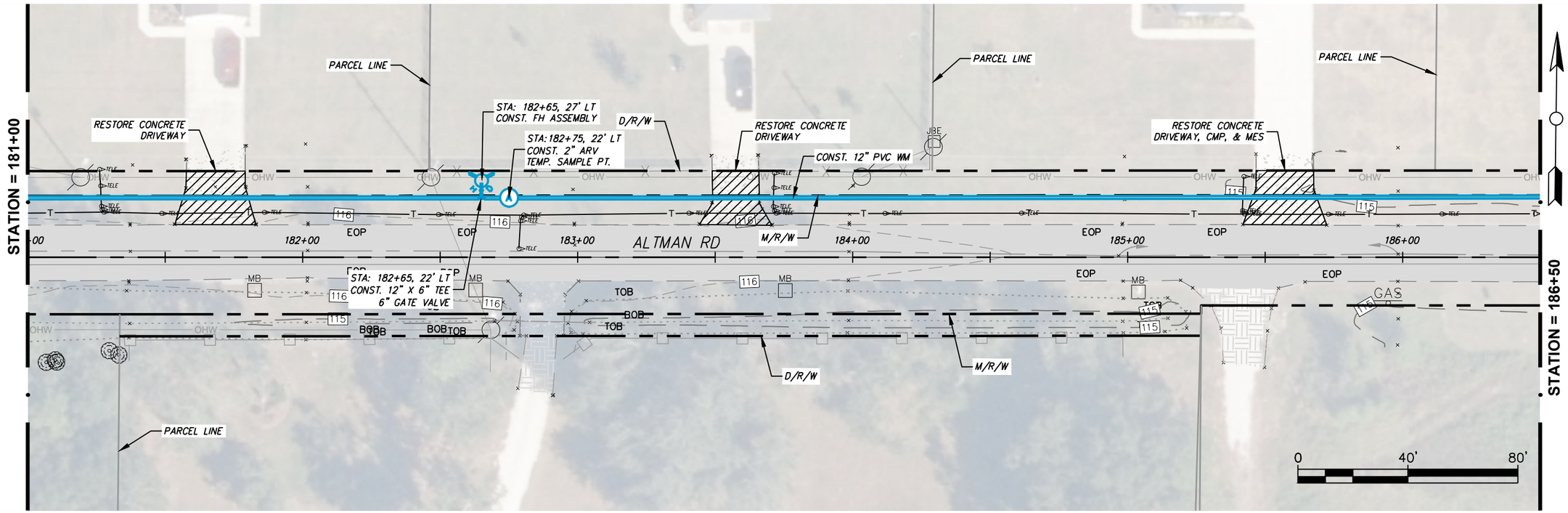
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
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WAUCHULA, FLORIDA
PLAN PROFILES

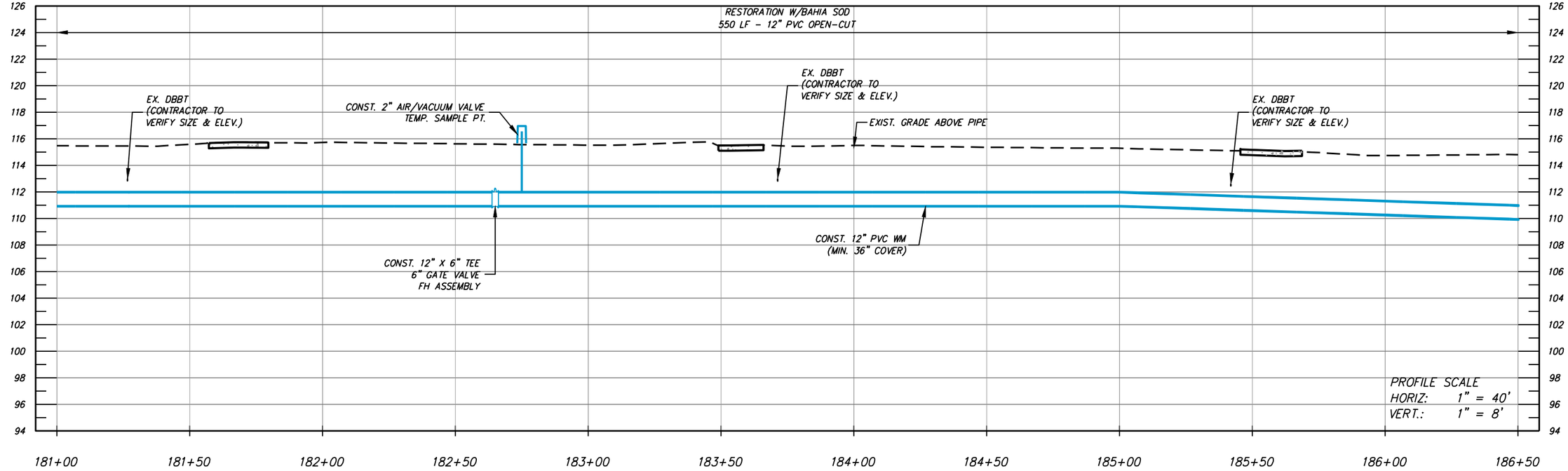
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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-31





NUMBER	DATE	DESCRIPTION
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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-32

P:\10371\03\CAD\Water\10371\03\Production Drawings\10371\03-DEJ-2023-PP.dwg PP-32 Jun 02, 2026 4:14pm by: rcarnathan

STATION = 186+50

PARCEL LINE

RESTORE CONCRETE DRIVEWAY, HDPE, & MES

MES 18" HDPE INV EL. 112.52

MES 18" HDPE INV EL. 112.33

JB

D/R/W

CONST. 12" PVC WM

MES 15" HDPE INV EL. 111.56

RESTORE CONCRETE DRIVEWAY, HDPE, & MES

MES 15" HDPE INV EL. 110.73

RESTORE CONCRETE DRIVEWAY, HDPE, & MES

MES 15" HDPE INV EL. 109.54

DRILL ENTRY PIT (WHOLLY WITHIN UPLANDS)

MES 15" HDPE INV EL. 109.58

STA: 191+00, 22' LT
CONST. 12" 11.25° BEND
BEGIN HDD

VVH 131
"1" DIR BUE BT"
MD = 3.14
ASPHALT EL. 110.94

VVH 129
"BT SPLICE"
MD = 2.92
ASPHALT EL. 110.72

STA: 192+15, 29' LT
END HDD

INV 18" CMP EL. 108.01

187+00 188+00 189+00 190+00 191+00 192+00

ALTMAN RD

S FLORIDA AVE

M/R/W

M/R/W

D/R/W

CONST. 12" HDPE WM

VVH 130
"1" DIR BUE FOC"
MD = 2.72
ASPHALT EL. 110.95

VVH 132
"2" DIR BUE BT"
MD = 4.02
ASPHALT EL. 110.83

DRILL EXIT PIT (WHOLLY WITHIN UPLANDS)

INV. 18" CMP EL. 108.54

0 40' 80'

RESTORATION W/BAHIA SOD
450 LF – 12" PVC OPEN-CUT

115 LF – 12" HDPE HDD

EXIST. GRADE ABOVE PIPE

EX. DBBT
(CONTRACTOR TO VERIFY ELEV.)

CONST. 12" PVC WM
(MIN. 36" COVER)

CONST. 12"-11.25° BEND
(RESTRAIN)
BEGIN HDD

CONTRACTOR SHALL REMOVE ALL EXCESS HDPE PIPE

EX. 1" DBFOC
VVH 130

EX. 1" DBBT
VVH 131

6' MIN.

EX. BT SPLICE
VVH 129

EX. 2" DBBT
VVH 132

CONST. 12" HDPE WM

END HDD
CONST. 90° BEND
(RESTRAIN)

CONTRACTOR SHALL REMOVE ALL EXCESS HDPE PIPE

PROFILE SCALE
HORIZ: 1" = 40'
VERT.: 1" = 8'

124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92

186+50 187+00 187+50 188+00 188+50 189+00 189+50 190+00 190+50 191+00 191+50 192+00 192+30

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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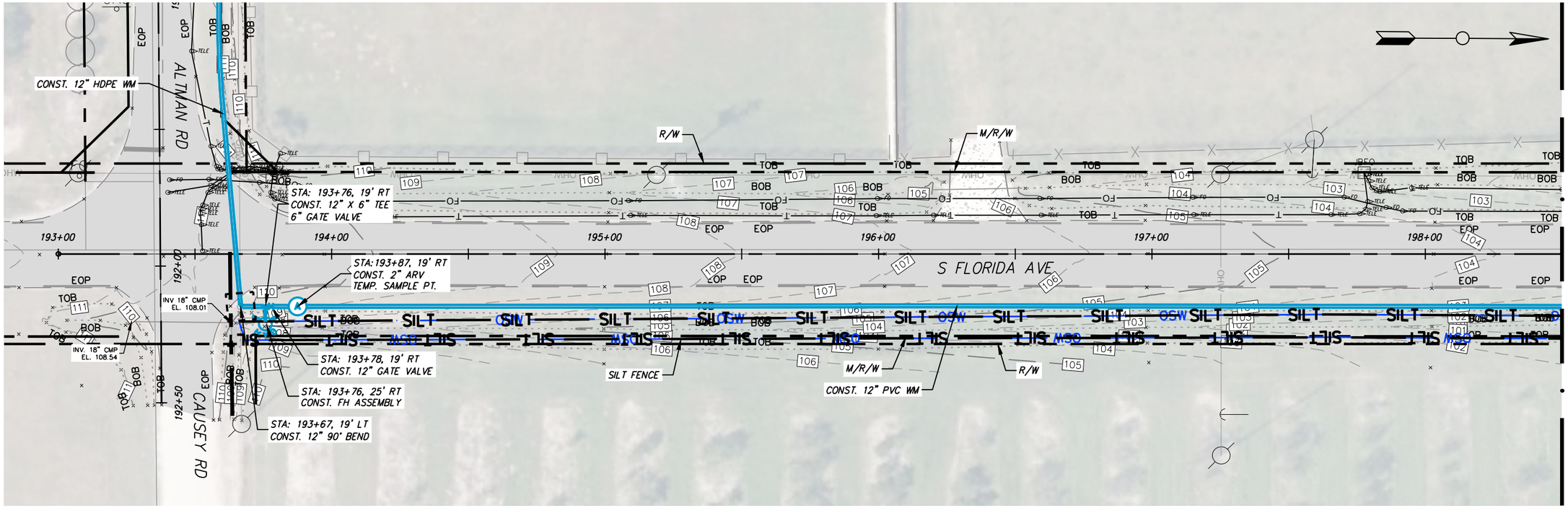
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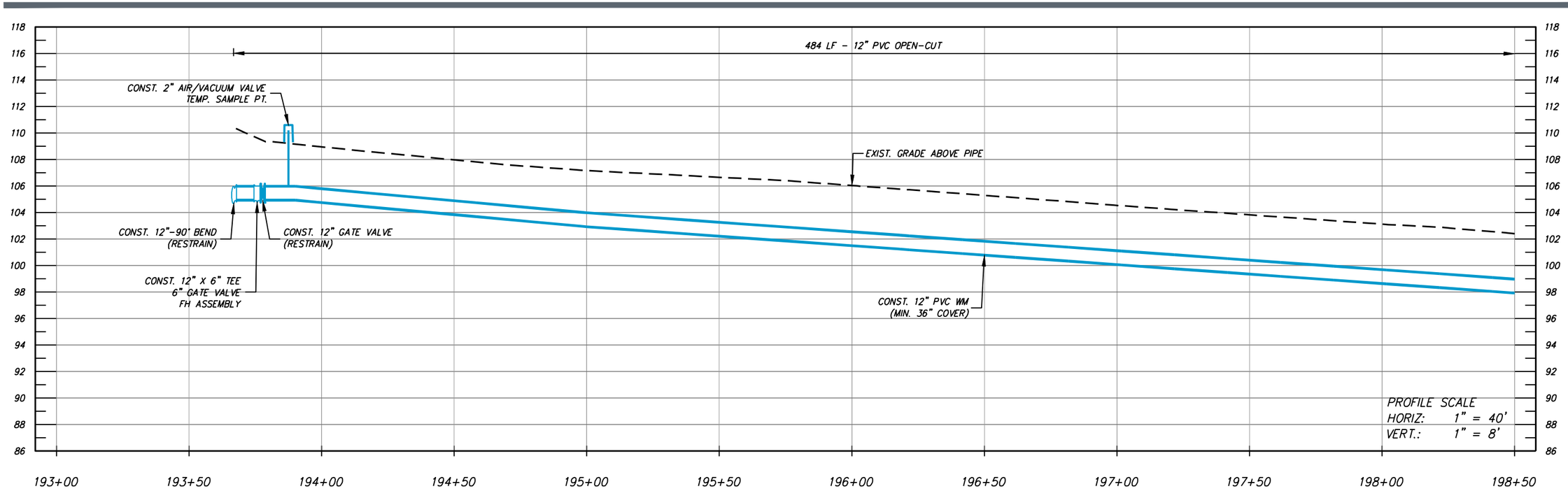
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-33

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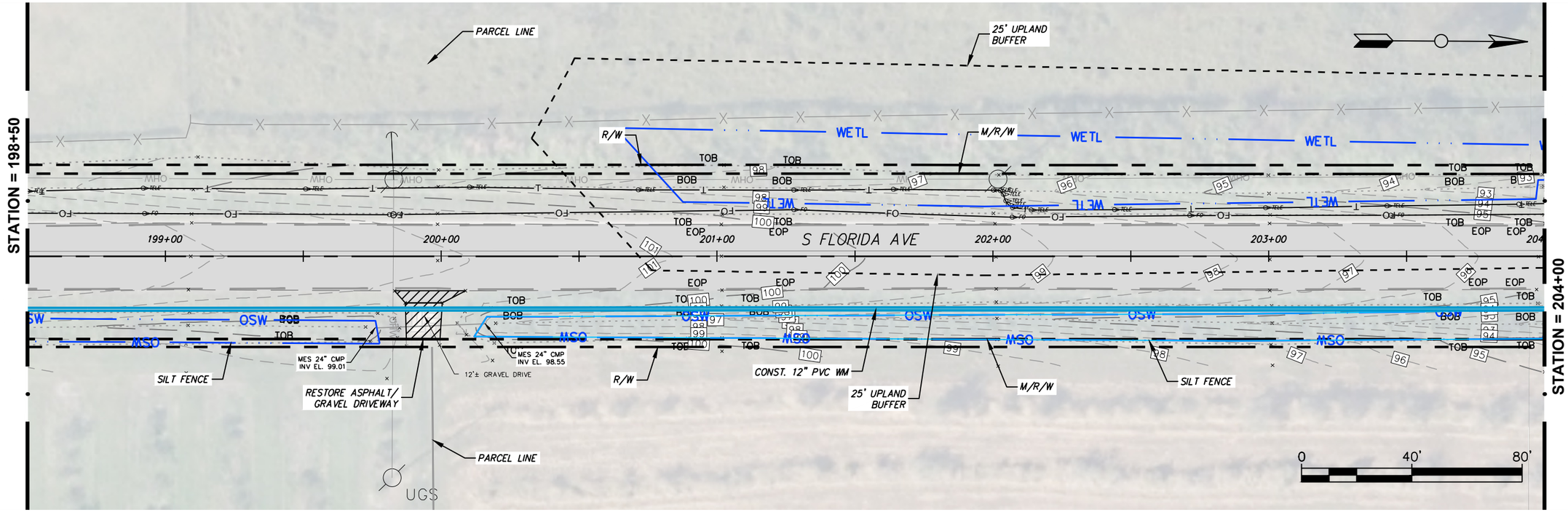
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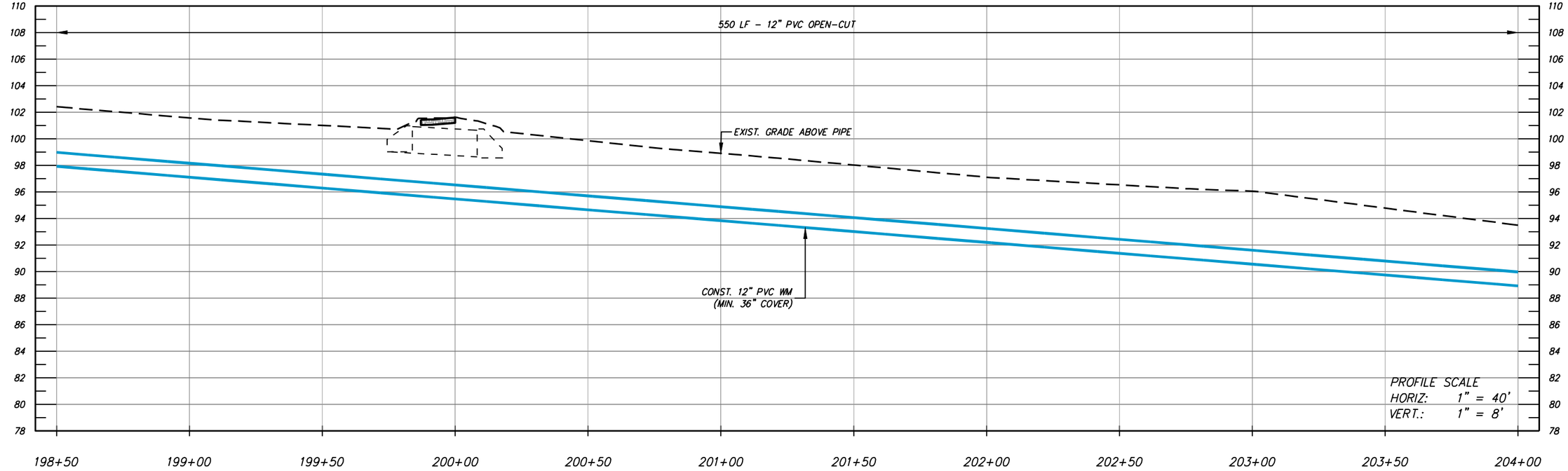
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-34

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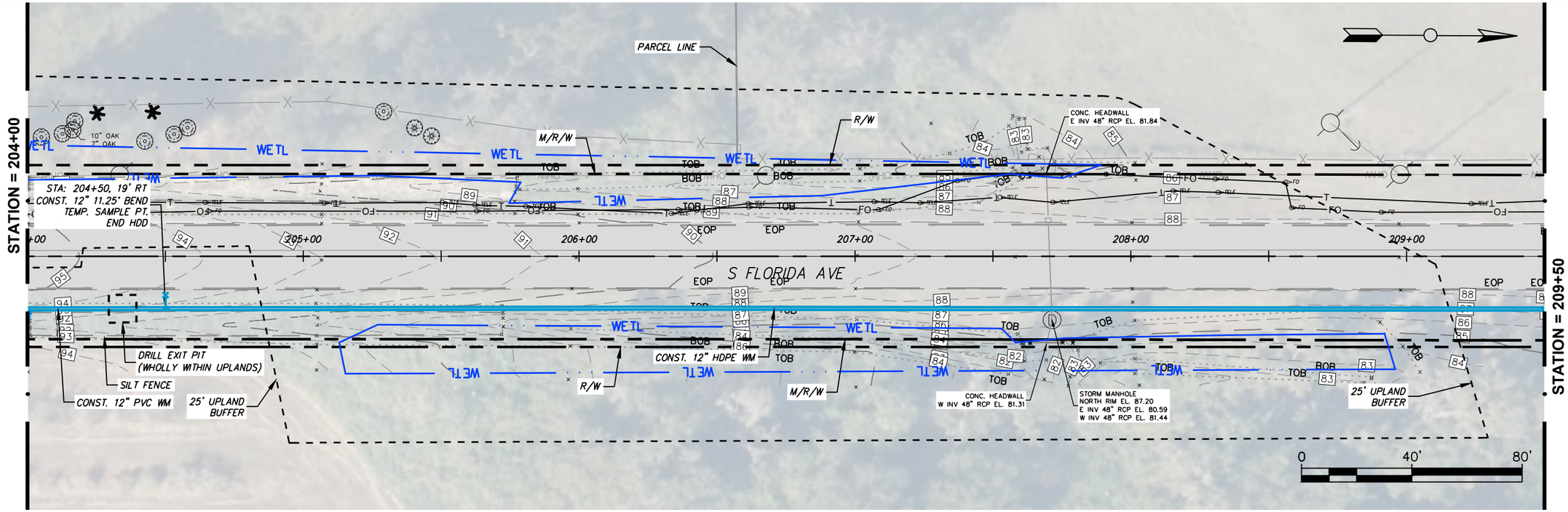
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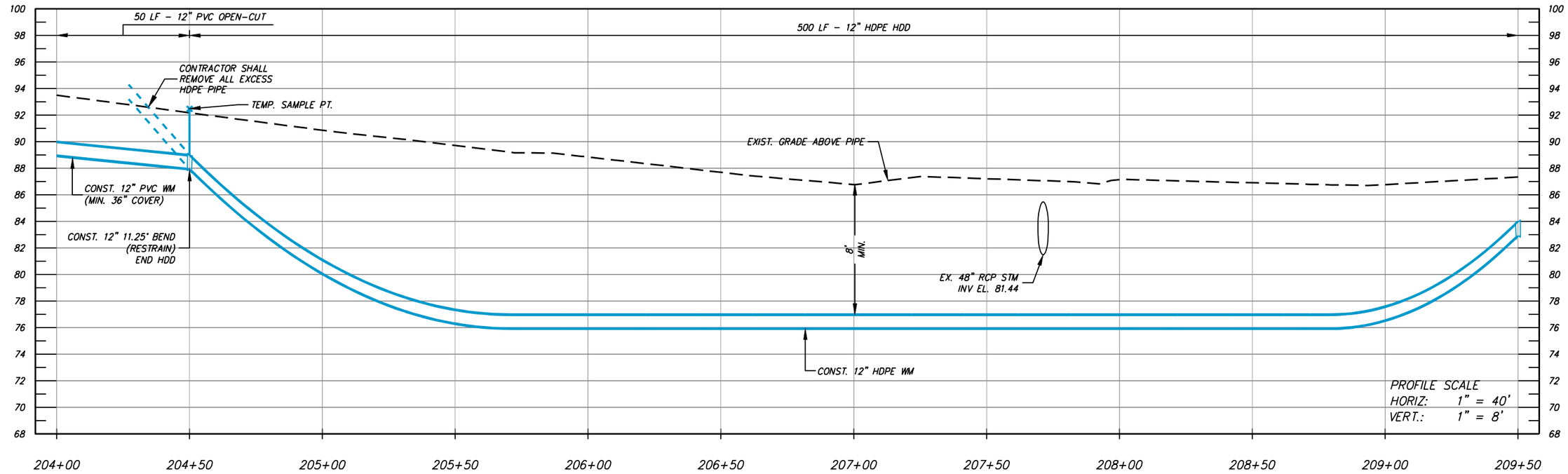
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-35

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NUMBER	DATE	DESCRIPTION
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CITY OF WAUCHULA
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WAUCHULA, FLORIDA
PLAN PROFILES

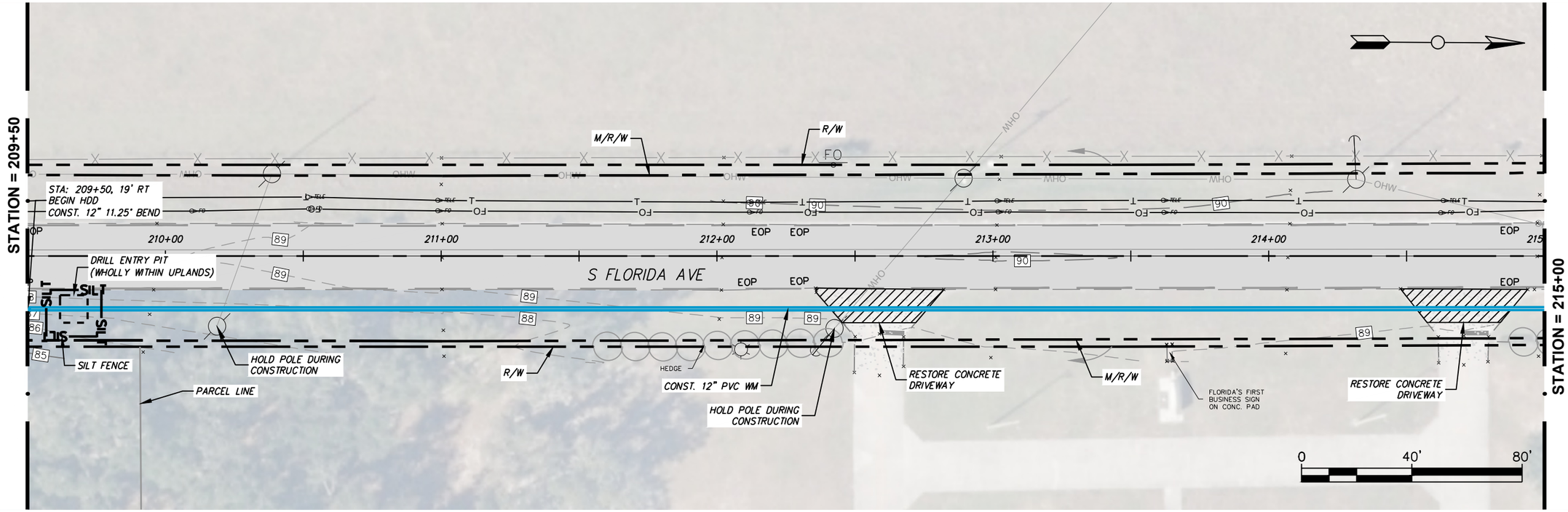
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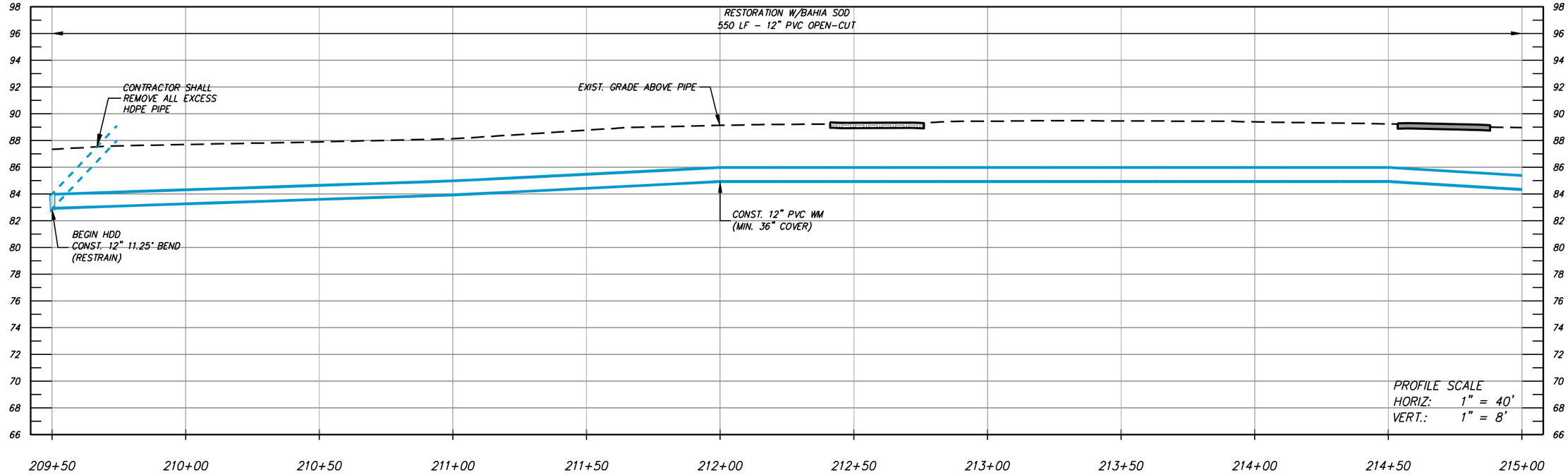
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-36

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NUMBER	DATE	DESCRIPTION
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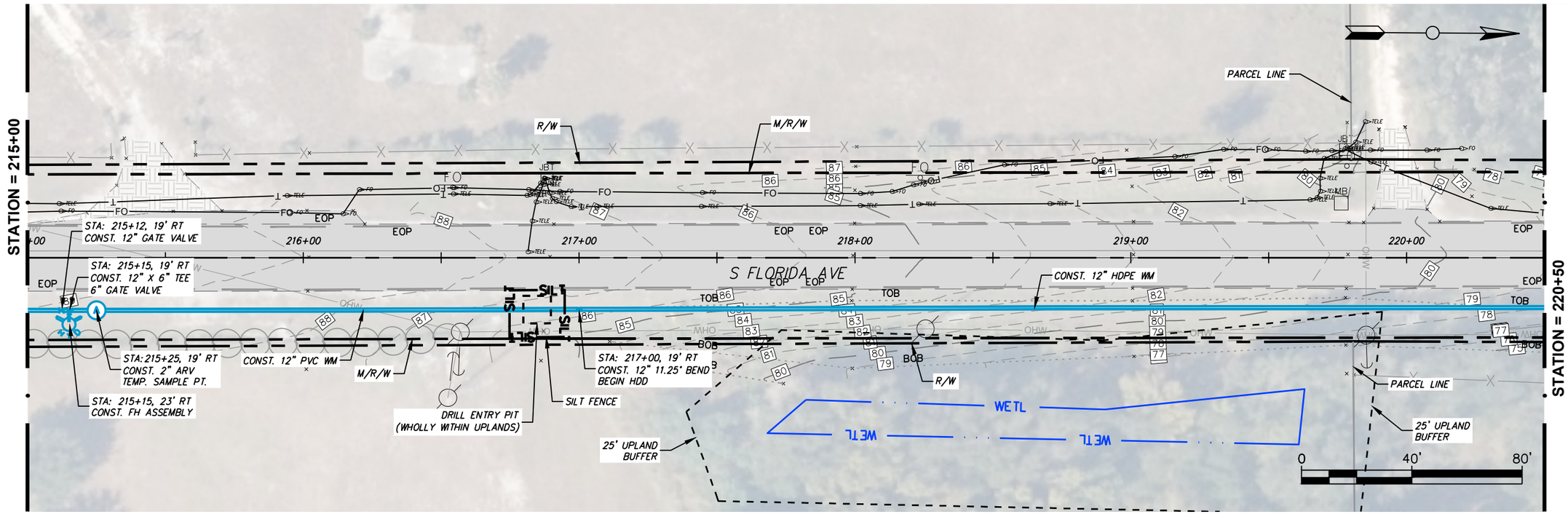
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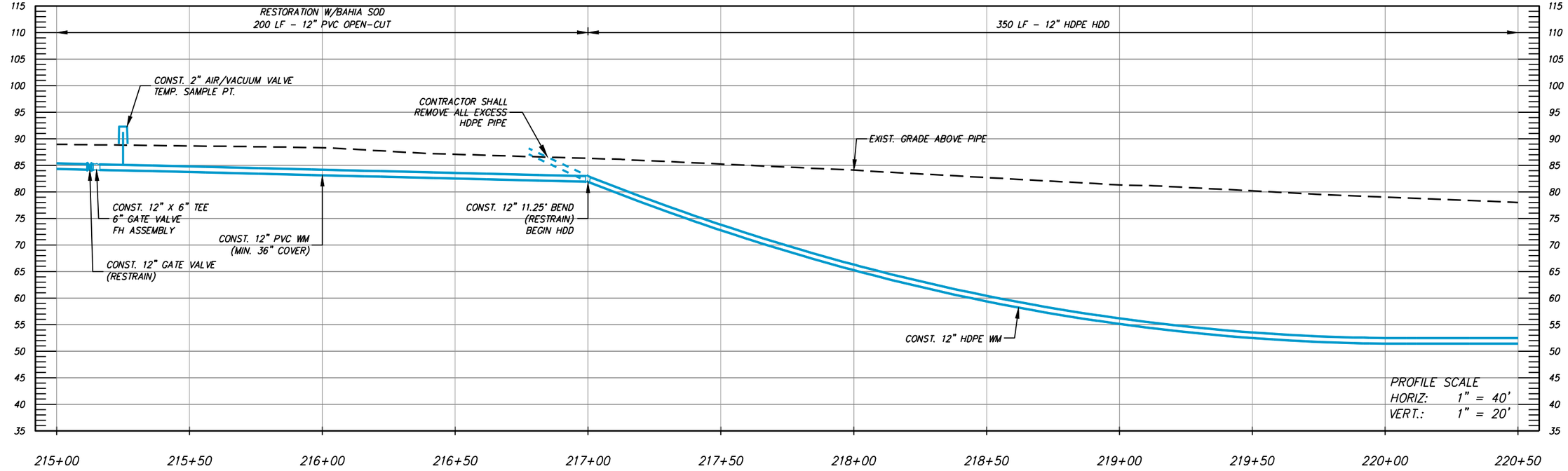
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-37

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NUMBER	DATE	DESCRIPTION
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PLAN PROFILES

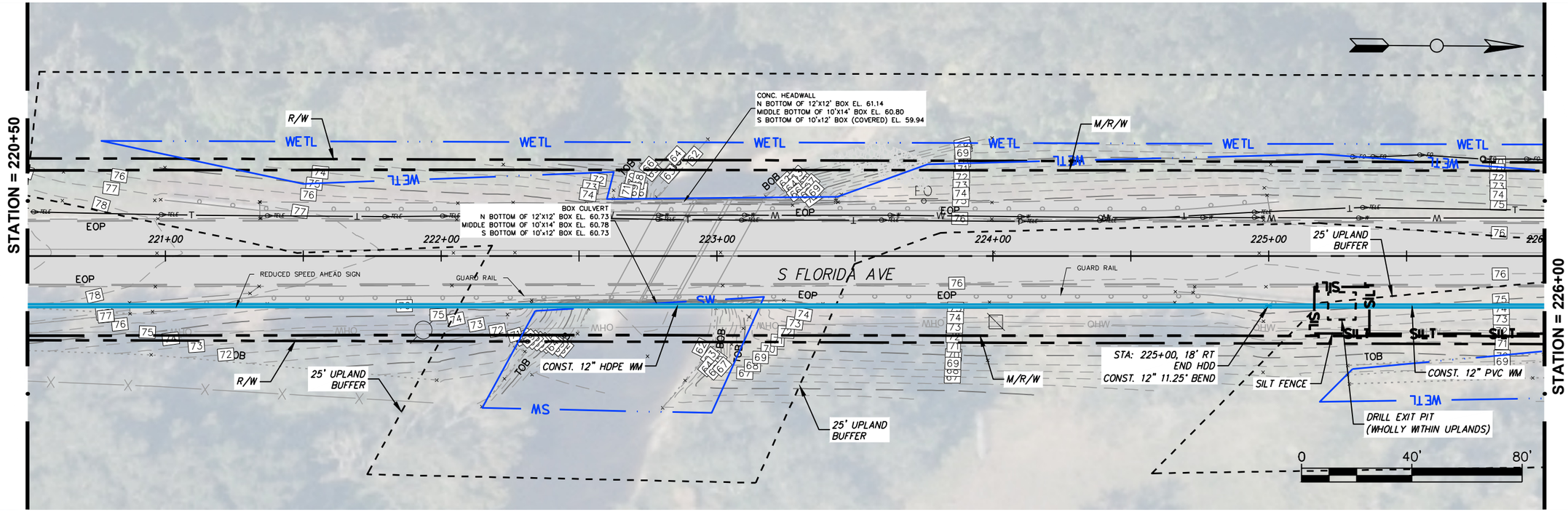
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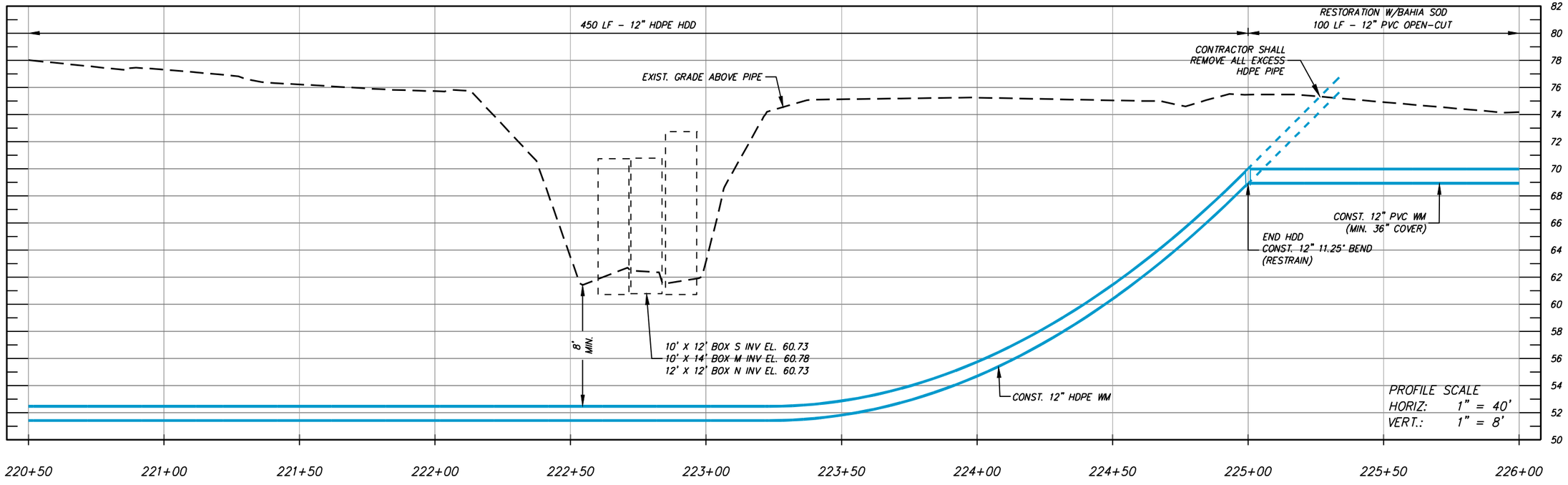
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-38

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NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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PLAN PROFILES

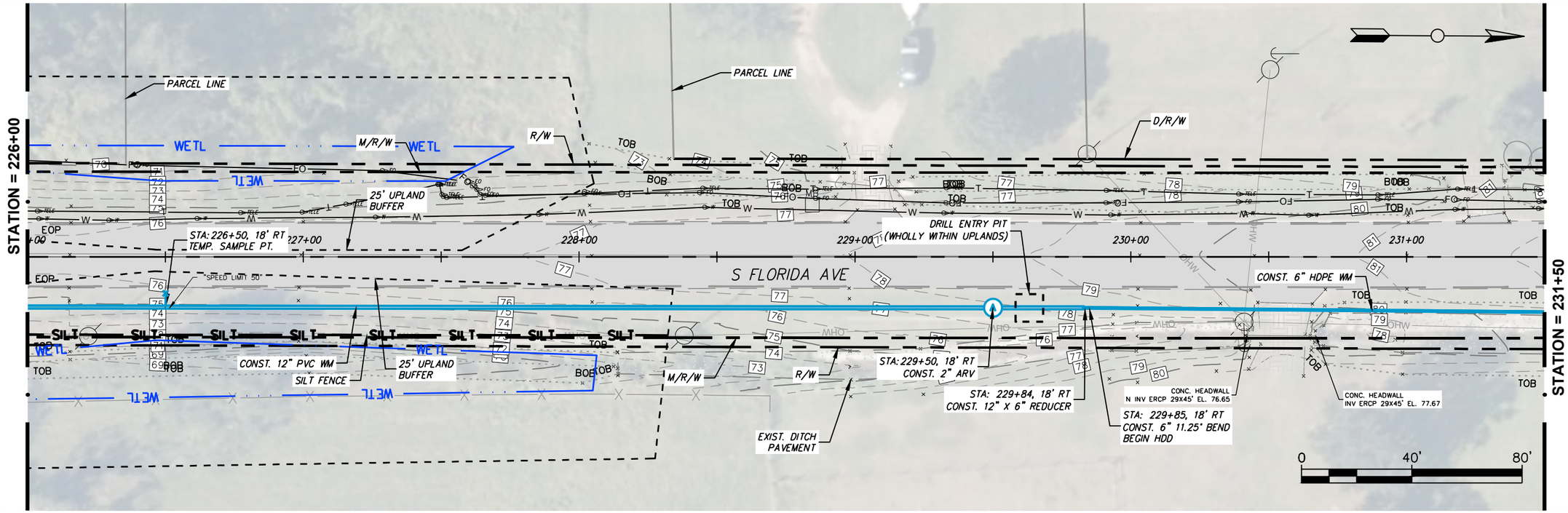
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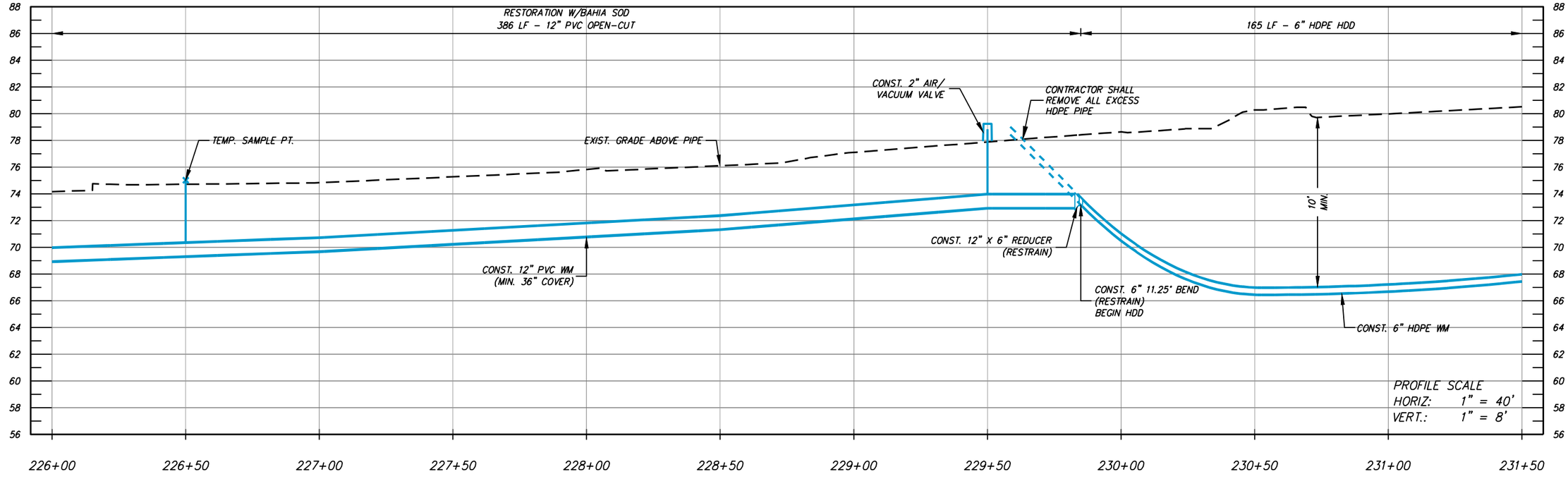
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-39

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NUMBER	DATE	DESCRIPTION
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PLAN PROFILES

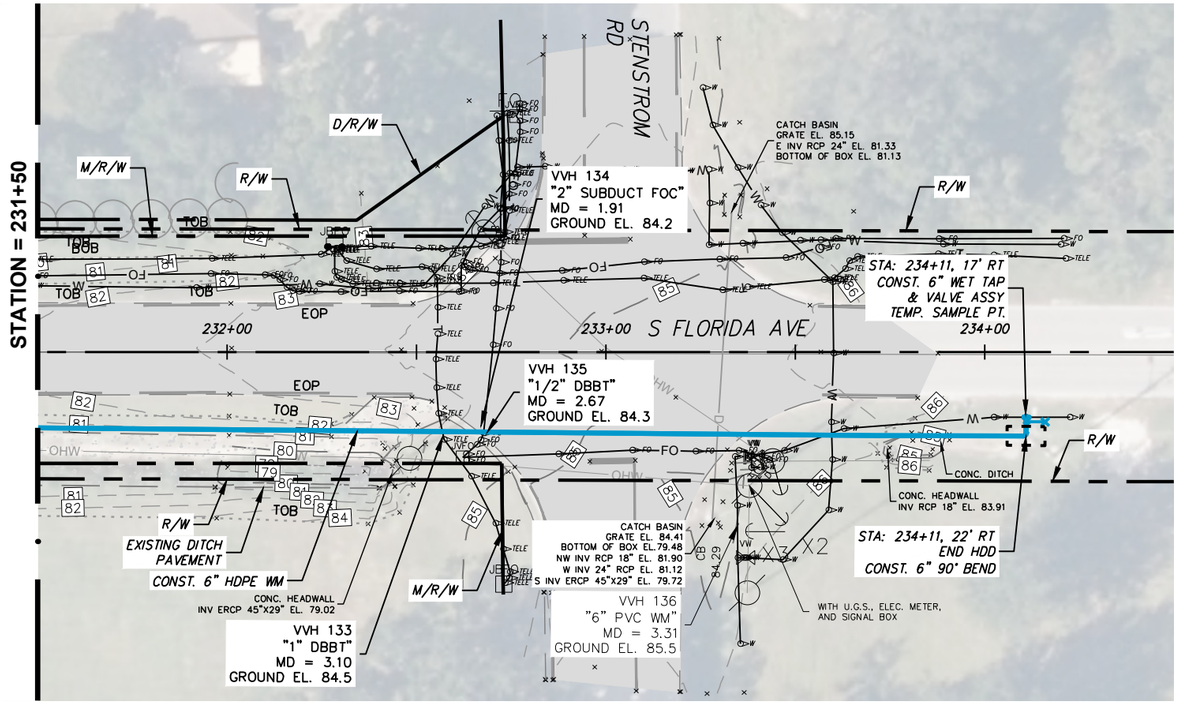
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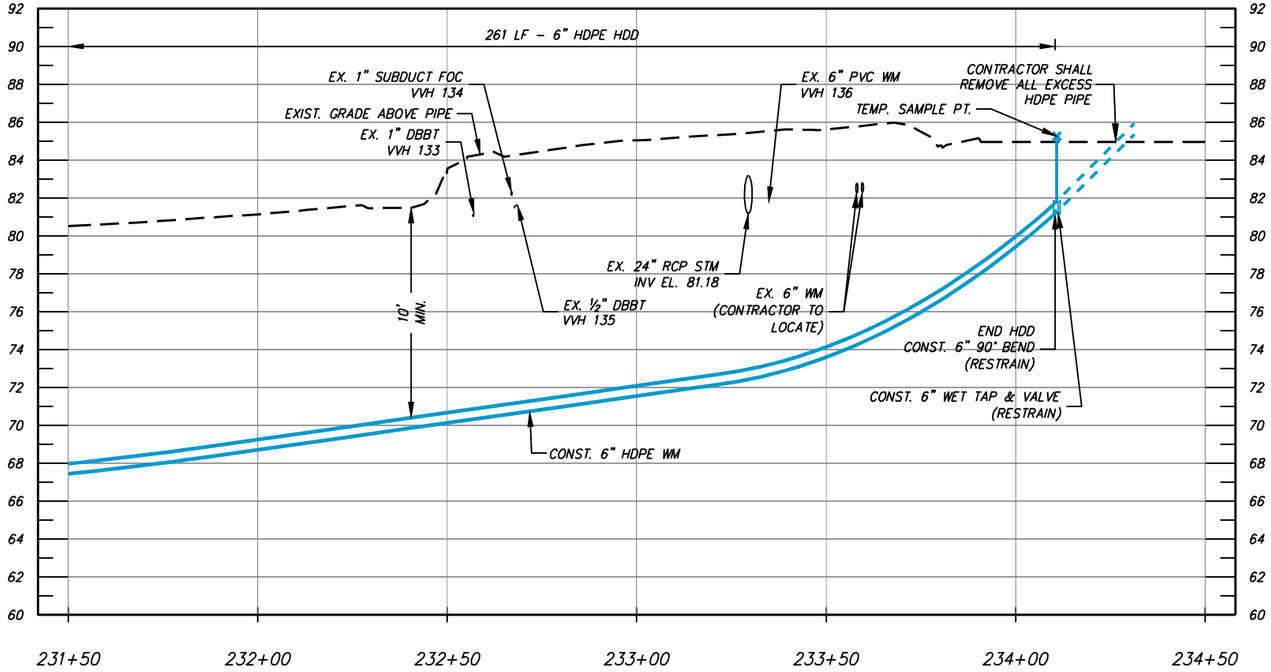
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-40

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PROFILE SCALE
HORIZ: 1" = 40'
VERT.: 1" = 8'

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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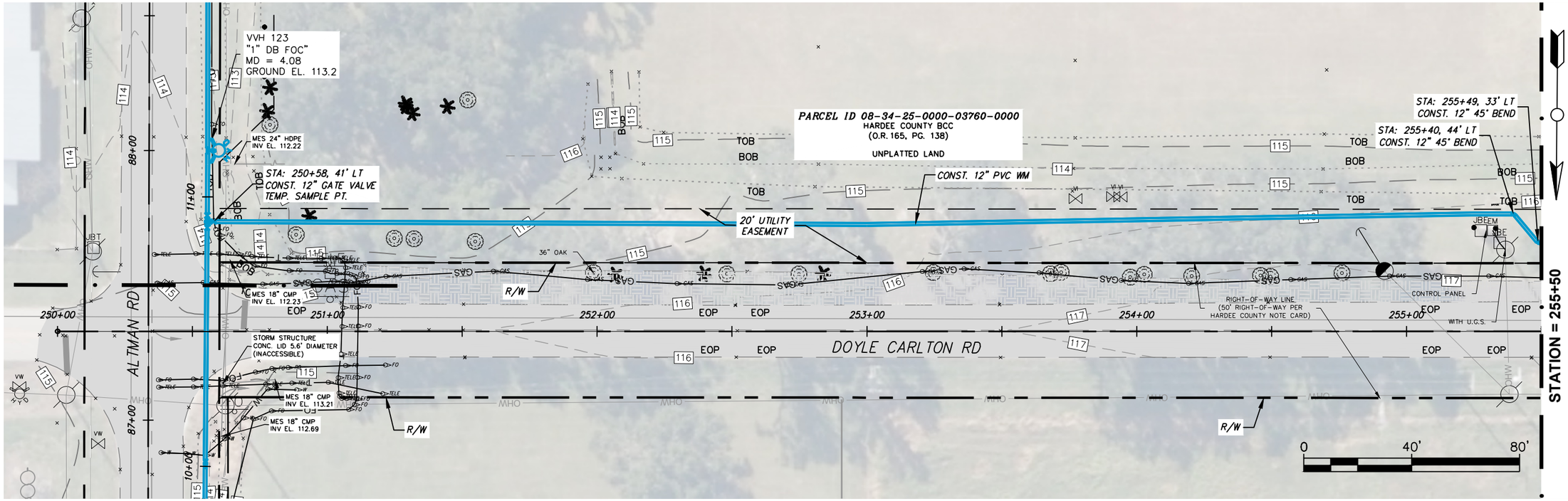
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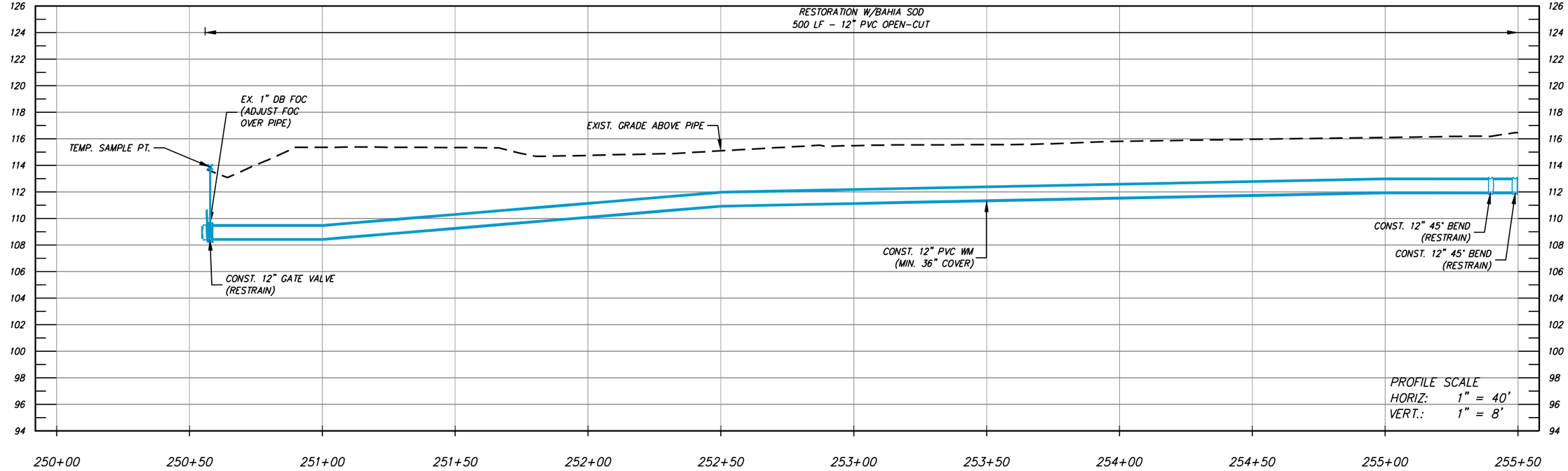
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-41

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(888) 646-1402

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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
PLAN PROFILES

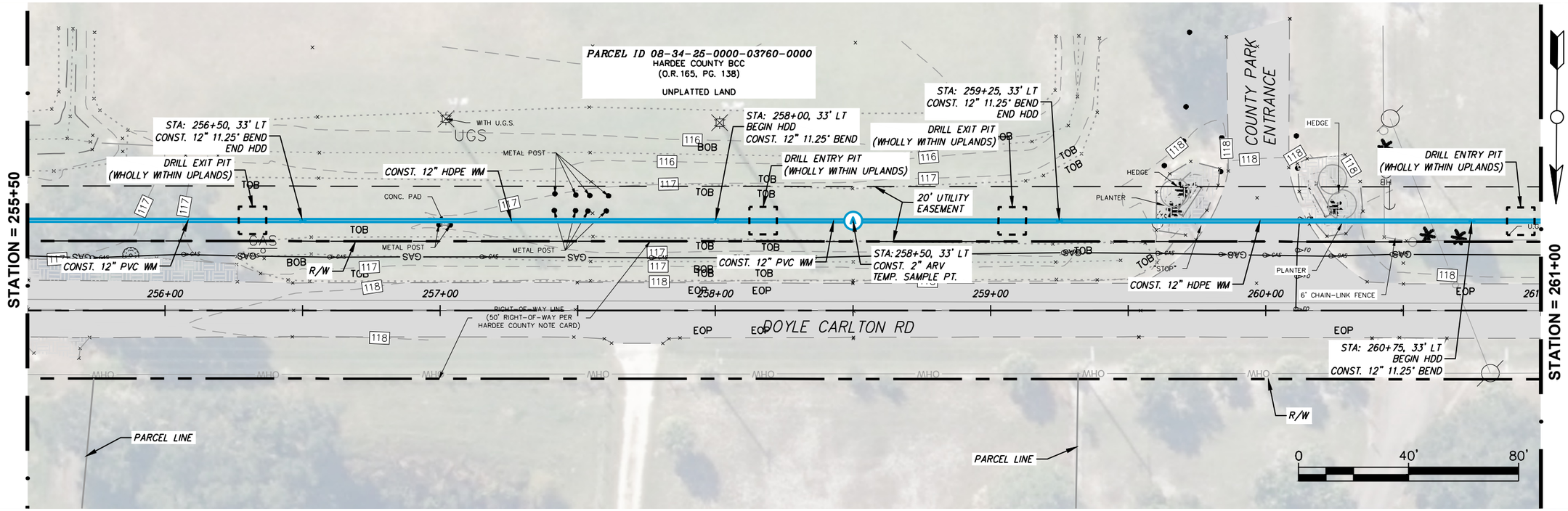
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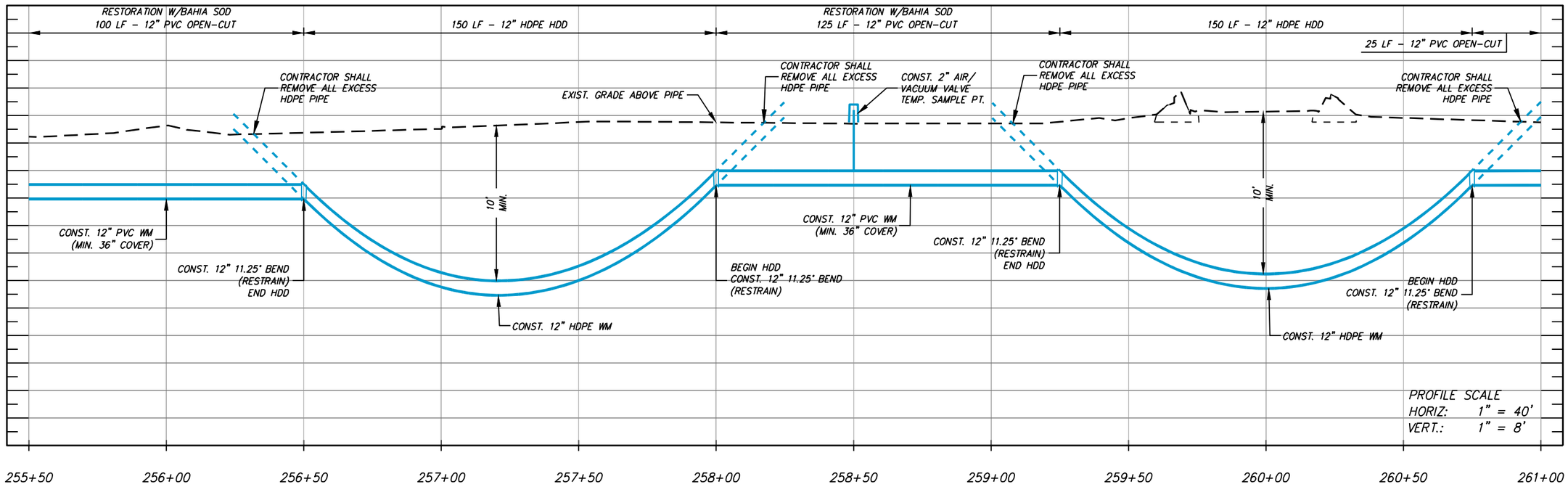
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-42

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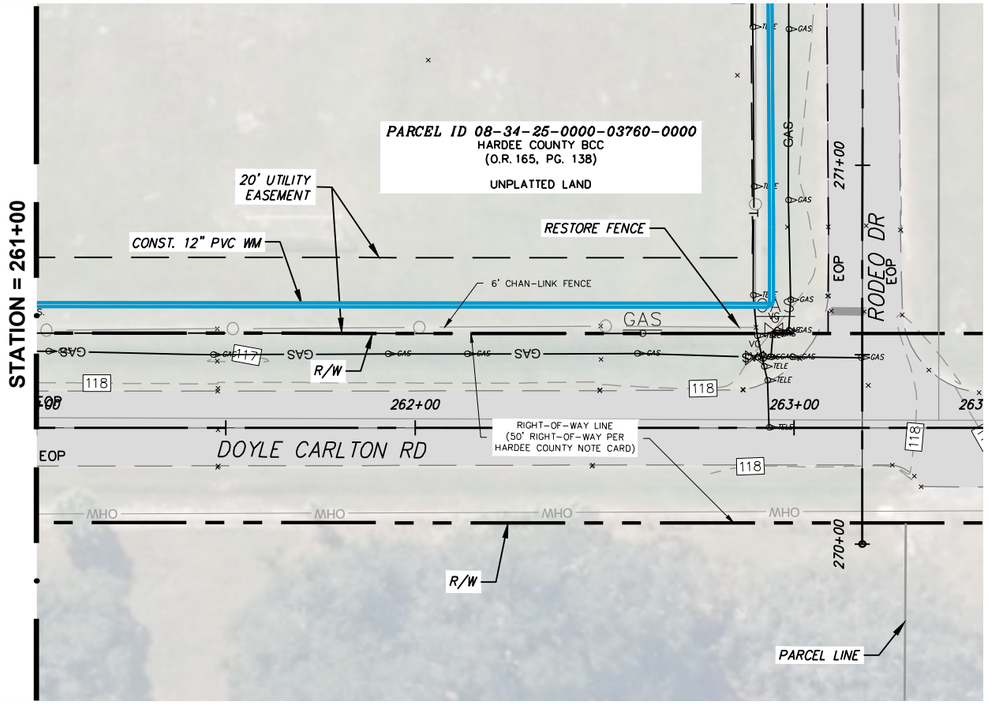
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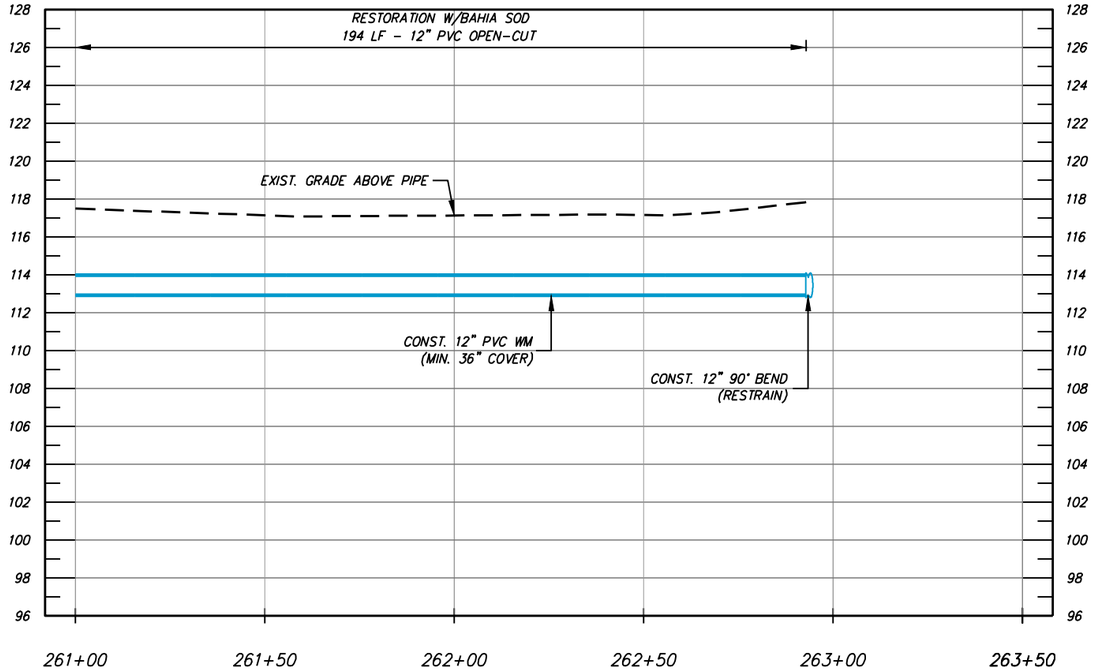
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-43

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PROFILE SCALE
HORIZ: 1" = 40'
VERT.: 1" = 8'

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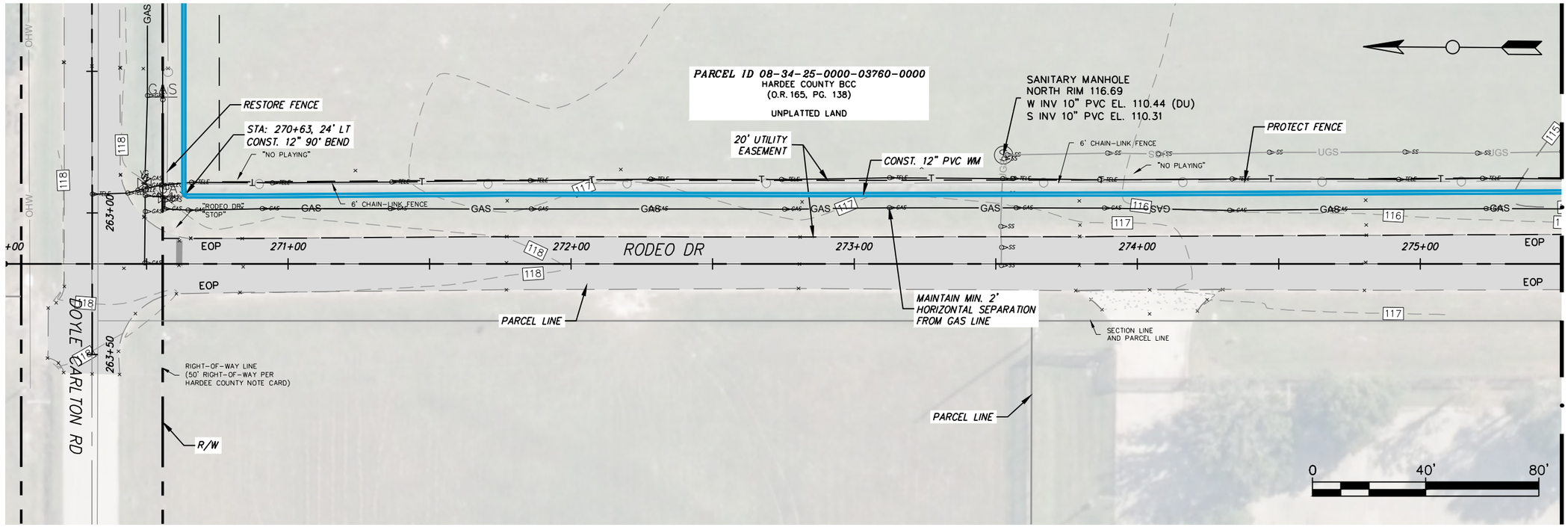
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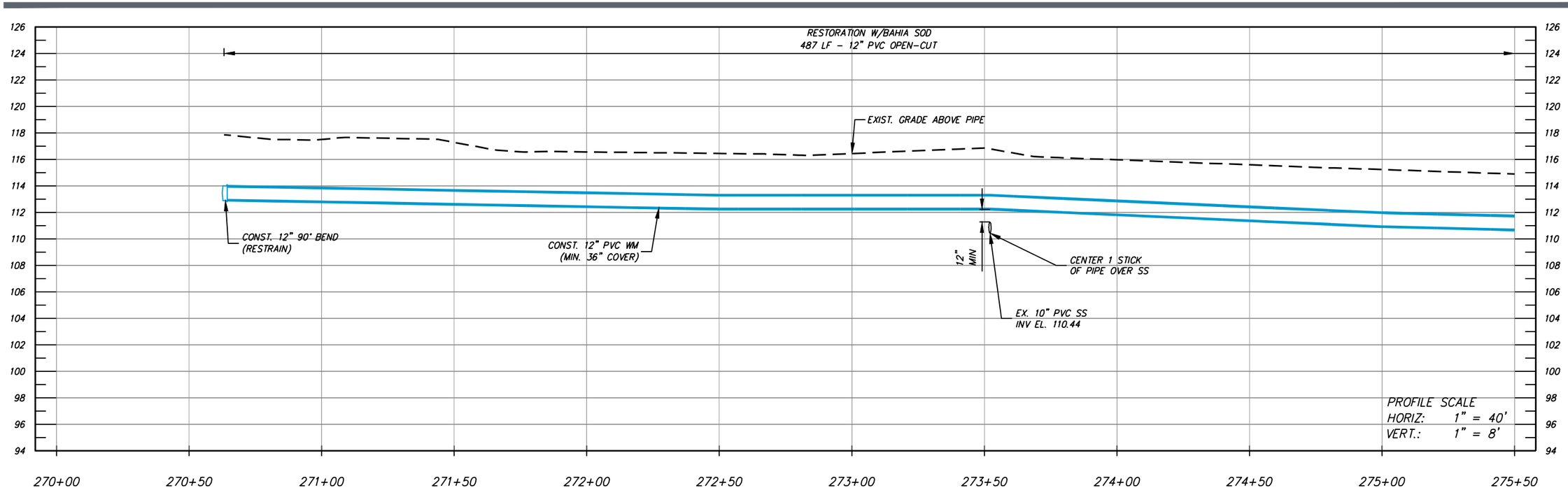
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-44

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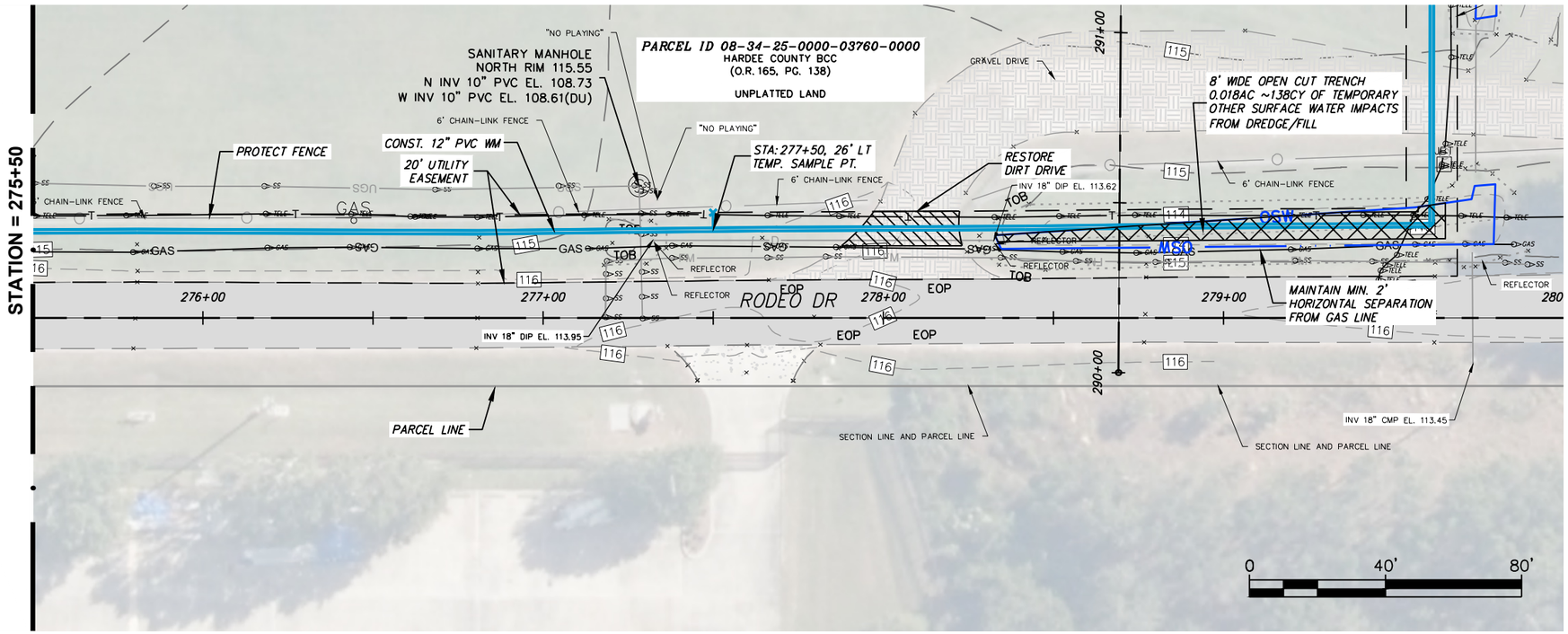
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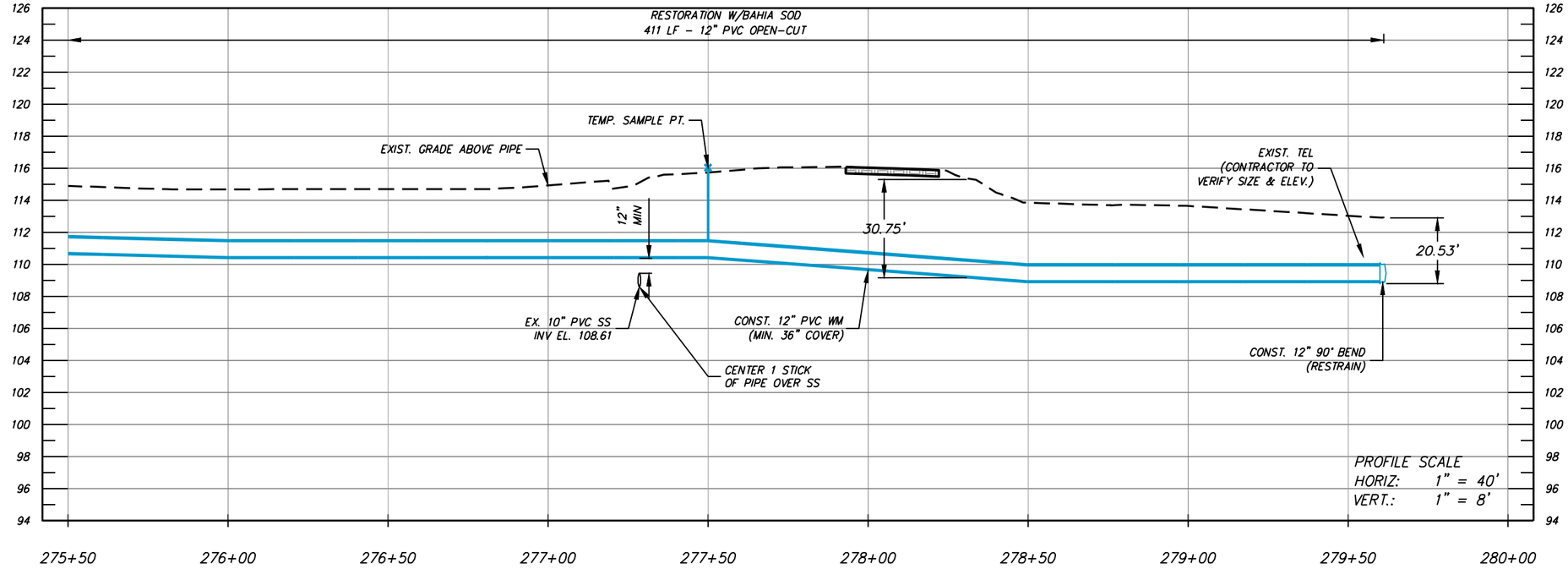
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-45

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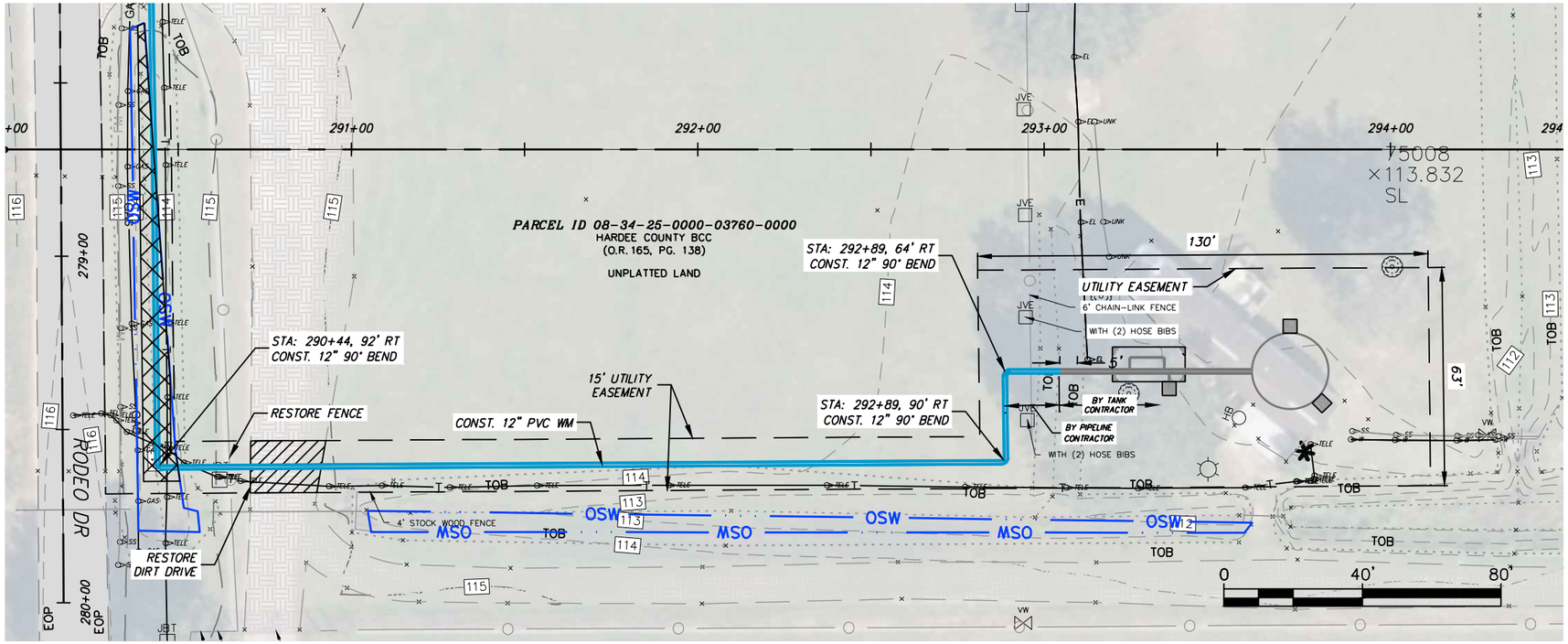
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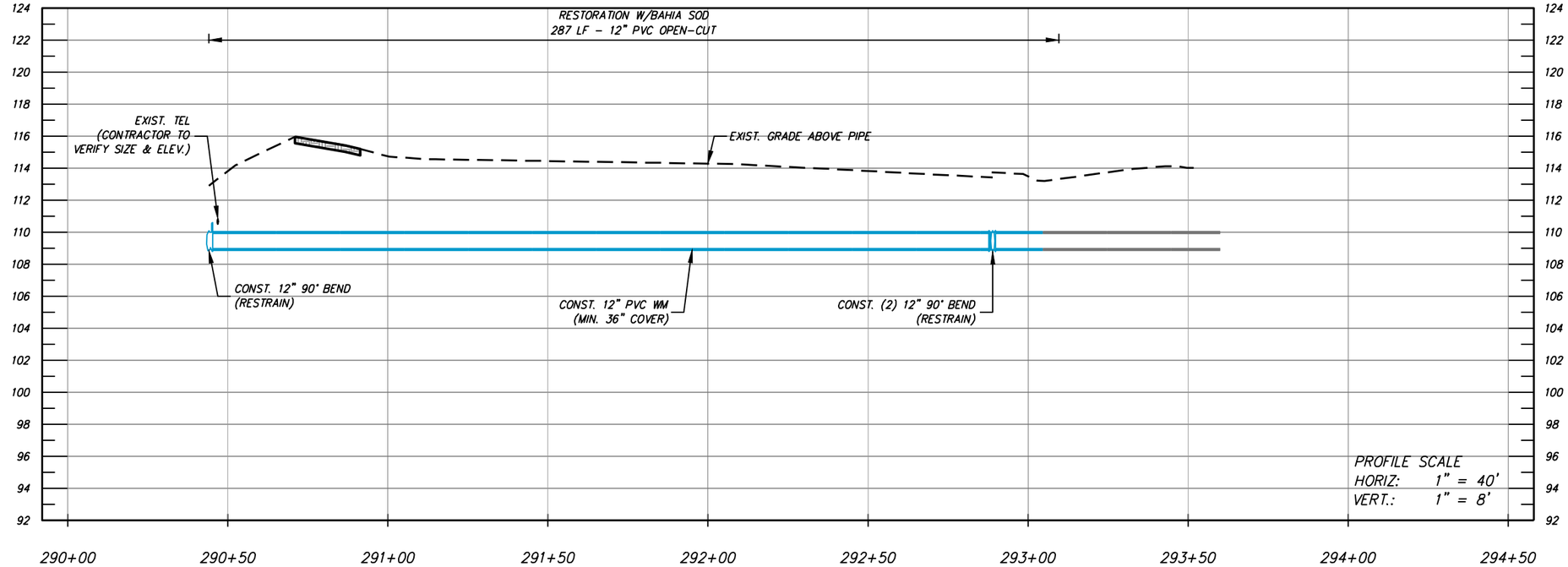
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-46

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REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: PP-47

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FIRE HYDRANT LOCATION SCHEDULE

STATION	ALIGNMENT
13+21	W MAIN ST
26+45	W MAIN ST
55+75	ALTMAN RD
66+75	ALTMAN RD
80+50	ALTMAN RD
88+00	ALTMAN RD
100+08	ALTMAN RD
110+25	ALTMAN RD
137+60	ALTMAN RD
147+62	ALTMAN RD
170+50	ALTMAN RD
182+65	ALTMAN RD
193+76	S FLORIDA AVE
215+15	S FLORIDA AVE

WATER/SEWER DETAILS	FIRE HYDRANT LOCATION SCHEDULE	SCH -01

MAIN LINE VALVE LOCATION SCHEDULE

STATION	ALIGNMENT
10+63	W MAIN ST
26+48	W MAIN ST
55+77	ALTMAN RD
87+71	ALTMAN RD
87+76	ALTMAN RD
100+06	ALTMAN RD
147+66	ALTMAN RD
165+75	ALTMAN RD
193+78	S FLORIDA AVE
215+12	S FLORIDA AVE
234+11	S FLORIDA AVE
250+58	DOYLE CARLTON RD

WATER/SEWER DETAILS	MAIN LINE ISOLATION VALVE LOCATION SCHEDULE	SCH -02

AIR RELEASE VALVE LOCATION SCHEDULE

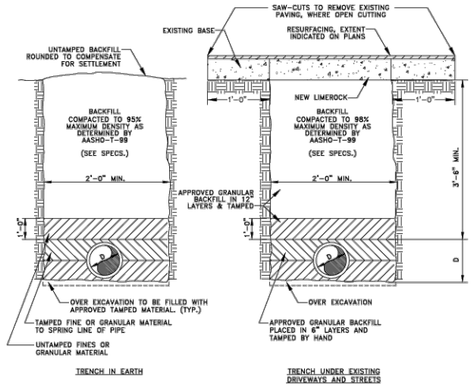
STATION	ALIGNMENT
22+90	W MAIN ST
26+42	W MAIN ST
48+25	W MAIN ST
55+80	ALTMAN RD
66+72	ALTMAN RD
80+48	ALTMAN RD
96+50	ALTMAN RD
100+00	ALTMAN RD
114+00	ALTMAN RD
119+65	ALTMAN RD
126+18	ALTMAN RD
144+50	ALTMAN RD
162+50	ALTMAN RD
182+75	ALTMAN RD
193+87	S FLORIDA AVE
215+25	S FLORIDA AVE
229+50	S FLORIDA AVE
258+50	DOYLE CARLTON RD

WATER/SEWER DETAILS	AIR RELEASE VALVE LOCATION SCHEDULE	SCH -03

TEMPORARY SAMPLE POINT LOCATION SCHEDULE

STATION	ALIGNMENT
10+68	W MAIN ST
13+21	W MAIN ST
22+90	W MAIN ST
26+45	W MAIN ST
38+00	W MAIN ST
48+25	W MAIN ST
55+80	ALTMAN RD
66+72	ALTMAN RD
77+75	ALTMAN RD
88+00	ALTMAN RD
100+00	ALTMAN RD
110+25	ALTMAN RD
121+00	ALTMAN RD
132+50	ALTMAN RD
143+50	ALTMAN RD
154+50	ALTMAN RD
165+75	ALTMAN RD
176+50	ALTMAN RD
182+75	ALTMAN RD
193+87	S FLORIDA AVE
204+50	S FLORIDA AVE
215+25	S FLORIDA AVE
226+50	S FLORIDA AVE
234+11	S FLORIDA AVE
250+60	DOYLE CARLTON RD
258+50	DOYLE CARLTON RD
277+50	RODEO RD
ARV AT TOWER VALVE STATION	WATER TOWER
SAMPLE TAP IN VERTICAL PIPING AT TOWER	WATER TOWER

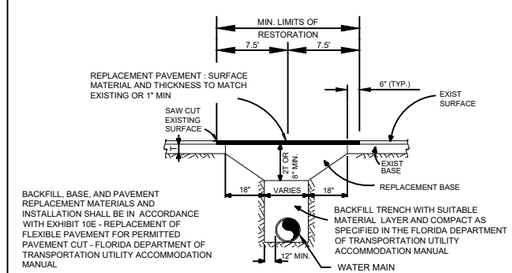
WATER/SEWER DETAILS	TEMPORARY SAMPLE POINT LOCATION SCHEDULE	SCH -04



NOTES:

1. TRENCHES SHALL BE AS NARROW AS POSSIBLE TO ALLOW FOR SAFE AND PROPER PIPE INSTALLATION. TRENCH SIDES SHALL BE VERTICAL TO A POINT 1'-0" ABOVE THE TOP OF THE PIPE. ABOVE THIS POINT SLOPED SIDES MAY BE USED IF CONDITIONS PERMIT, BUT SHOULD BE KEPT AS NEARLY VERTICAL AS POSSIBLE.
2. FOR TRENCH IN CINDER FILLS, GARBAGE DUMPS, SALT MARSHES, MUCK SOILS OR PLACES WHERE HARMFUL CORROSIVE CONDITIONS EXIST, PIPE SHALL BE PROTECTED WITH AT LEAST 10" OF SAND OR LIMESTONE SCREENING ON ALL SIDES AND TAMPED BY HAND IN 6" LAYERS. A POLYETHYLENE WRAP MAY ALSO BE USED. NO ADDITIONAL COMPENSATION FOR CORROSION PROTECTION OF A PIPE WILL BE ALLOWED.

WATER/SEWER DETAILS	TYPICAL TRENCH DETAIL	MISC -11



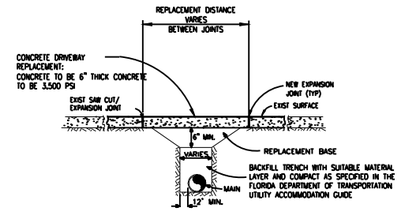
BACKFILL, BASE, AND PAVEMENT REPLACEMENT MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH EXHIBIT 10E - REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT - FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY ACCOMMODATION MANUAL

NOTES:

1. REFER TO TYPICAL TRENCHING DETAIL
2. LIMITS OF RESTORATION AS SHOWN ON PLANS

MILL & RESURFACE
PLACE PAVEMENT REPAIR SECTION INTO SERVICE MINIMUM 30 DAYS PRIOR TO PERFORMING MILL AND RESUFACE OPERATION. MILL EXSITING PAVEMENT TO A DEPTH OF 2" BELOW EXISTING SURFACE. BROOM AND PRIME MILLED SURFACE WITH TACK COAT. RESURFACE WITH 2" TYPE SP-12.5 ASPHALTIC CONCRETE SURFACE COARSE. THERMOPLASTIC STRIPING AND MARKING SHALL BE PLACED A MINIMUM OF 45 DAYS AFTER MILL AND RESURFACE ACTIVITIES ARE COMPLETE.

WATER/SEWER DETAILS	ASPHALT DRIVE REPAIR	PAVT -09



REPLACEMENT OF CONCRETE DRIVEWAY

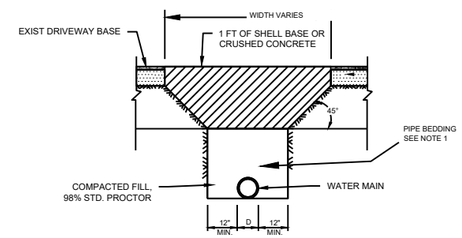
DENSITY PROCEDURES:
THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

STAGE #1
THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

STAGE #2
THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

GENERAL NOTES:
1. BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.
2. BASE MATERIAL SHALL BE PLACED IN ONE OR TWO LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY.
3. BASE MATERIAL SHALL BE STABILIZED TO AN LBR 60 VALUE.
4. SURFACE FINISH WILL BE CONSISTENT WITH THE EXISTING SURFACE.
5. EXPANSION JOINT MATERIAL SHALL BE INSTALLED AT ALL LOCATIONS ADJACENT TO EXISTING CONCRETE.

WATER/SEWER DETAILS	CONCRETE DRIVEWAY REPAIR	PAVT -09



NOTES:
1. REFER TO TYPICAL TRENCHING & BEDDING SECTION ON MISC-11.

WATER/SEWER DETAILS	UN-PAVED ROAD REPLACEMENT	PAVT -06

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WATER MAIN STANDARD DETAILS

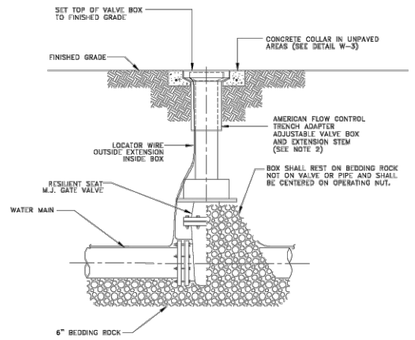
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REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: D-01

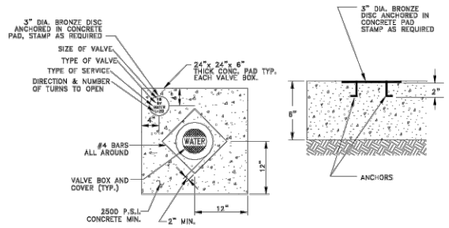
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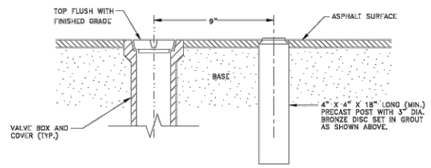
NOTES:

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. AMERICAN FLOW CONTROL TRENCH ADAPTER WITH 2" SQUARE NUT WRENCH AND EXTENSION STEM SPACER AND STOP IS REQUIRED.
3. COVER TO BE MARKED "WATER".
4. VALVES SHALL NOT BE LOCATED IN STREET CURBS.

WATER/SEWER DETAILS	GATE VALVE AND BOX DETAIL	W-01

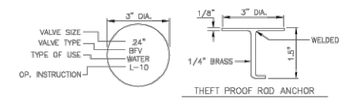


UNIMPROVED CONDITION



IMPROVED CONDITION

WATER/SEWER DETAILS	VALVE COLLAR DETAIL	W-03



THEFT PROOF ROD ANCHOR

TEXT FOR TYPE OF VALVE	
RSGV	RESILIENT SEAT GATE VALVE
RWGV	RESILIENT WEDGE GATE VALVE
BFV	BUTTERFLY VALVE
PV	PLUG VALVE
BV	BALL VALVE

TEXT FOR TYPE OF USE	
WATER	WATER
SEWER	SEWER
NPW	NON-POTABLE WATER

TEXT FOR OPERATING INSTRUCTION	
L-10	LEFT NUMBER OF TURNS
R-10	RIGHT NUMBER OF TURNS

NOTES:

1. SHALL BE 3" DIA., 1/8" THICK SOLID HARD BRASS WITH 1/4" WELDED ROD ANCHOR WITH HOOK END. SURFACE TO BE ENGRAVED WITH 1/4" TO 3/8" CAPITAL LETTERS APPROX. 0.015 DEPTH (HAND PUNCHED LETTERS NOT ACCEPTABLE). SURFACE TO BE GROUND SMOOTH AND EPOXY-COATED TO PREVENT TARNISHING.
2. MARKERS SHALL BE WAGCO MARKERS OR APPROVED EQUAL.
3. MARKERS SHALL BE INSPECTED BY THE CITY PRIOR TO INSTALLATION.
4. REFER TO CITY SPECIFICATION AND PAVED VALVE \ UVI LOCATION DETAIL FOR PLACEMENT.

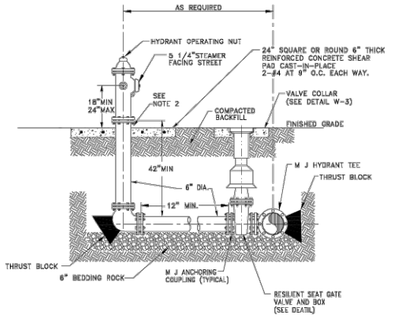
WATER/SEWER DETAILS	UNDERGROUND VALVE IDENTIFICATION (UVI) DETAIL	W-04

Proposed Utility	Minimum Horizontal and Vertical Separation Requirements								Acceptable Variances
	Potable Water		Reclaimed Water*		Sanitary Sewer (Gravity & F.M.)		Storm Sewer		
	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	
Potable Water	-	-	5' c/c 3' o/o	18"	10'	18"	10'	18"	See Note No. 4 Below
Reclaimed Water	5' c/c 3' o/o	18"	-	-	5' c/c 3' o/o	18"	-	-	
Sanitary Sewer	10'	18"	5' c/c 3' o/o	18"	-	-	-	-	

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN FDEP RULES PER THE FLORIDA ADMINISTRATIVE CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. FOR THE PURPOSE OF THIS TABLE RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATION LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
   - C/C - DENOTES CENTER OF PIPE TO CENTER OF PIPE.
   - O/O - DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. ACCEPTABLE VARIANCES/CONSTRUCTION METHODS
   A. WHERE MINIMUM HORIZONTAL SEPARATION IS NOT ATTAINABLE, DUCTILE IRON WATER MAIN CONFORMING TO THICKNESS, PIPE TYPE AND JOINTING REQUIREMENTS SHALL BE USED UNTIL MINIMUM CLEARANCE IS PROVIDED.
   B. WHERE MINIMUM VERTICAL SEPARATION IS NOT ATTAINABLE, DUCTILE IRON WATER MAIN SHALL BE USED, WITH A FULL (20 OR 21 FOOT) LENGTH OF DUCTILE IRON WATER MAIN PIPE CENTERED AT THE POINT OF CROSSING.
   C. SANITARY SEWER FORCE MAIN AND RECLAIMED MAINS SHALL BE DEFLECTED VERTICALLY WITH FITTINGS TO ACHIEVE THE REQUIRED VERTICAL CLEARANCE WHERE POSSIBLE. SANITARY SEWER FORCE MAIN AND RECLAIMED LINES SHALL BE CONSTRUCTED TO CROSS BELOW THE WATER MAIN WHERE POSSIBLE.
   D. WHERE 36" MINIMUM COVER IS NOT ATTAINABLE OVER WATER OR SEWER MAINS, A CONCRETE SLAB 4" THICK AND 3' WIDE SHALL BE CONSTRUCTED OVER THAT PORTION OF THE MAIN WITH INSUFFICIENT COVER. LESS THAN 2 FEET OF COVER SHALL NOT BE ACCEPTABLE, EVEN WITH CONCRETE SLAB OVERLAY.
5. NO WATER PIPE SHALL PASS THROUGH OR BE CONSTRUCTED TOUCHING ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

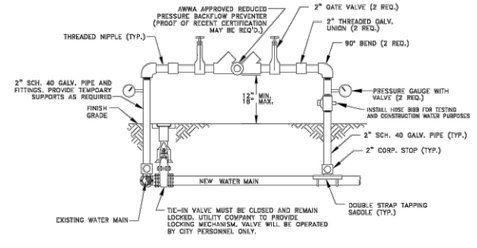
WATER/SEWER DETAILS	MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS	W-06



NOTES:

1. FIRE HYDRANT SHALL BE MUELLER A-423 WITHOUT WEEP HOLE.
2. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE 6" MIN.
3. RESTRAINED JOINTS REQUIRED THROUGHOUT FIRE HYDRANT ASSEMBLY.
4. VALVE COLLAR AND HYDRANT SHEAR PAD MAY BE INCORPORATED INTO ONE 6" THICK PAD.
5. PROVIDE A BLUE REFLECTORIZED MARKER IN THE PAVEMENT.
6. THE SHEAR PAD MAY BE INSTALLED UP TO 4" BELOW FINISH GRADE.
7. COLOR OF BONNET AND STEAMER SHALL BE IN ACCORDANCE WITH LINE SIZE.

WATER/SEWER DETAILS	FIRE HYDRANT ASSEMBLY DETAIL	W-11



WATER/SEWER DETAILS	TEMPORARY JUMPER CONNECTION	W-12

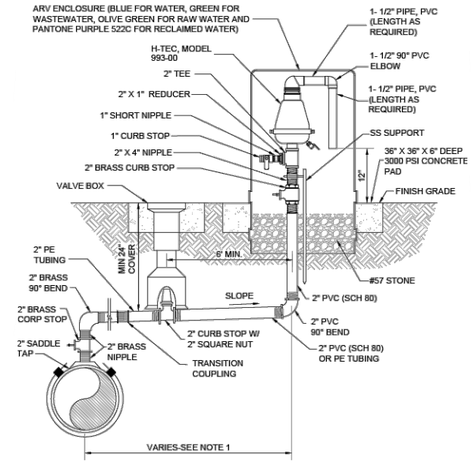
TEMPORARY JUMPER NOTES:

1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
2. THE DETAIL ABOVE IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" IN DIAMETER (2.5 FPS MINIMAL VELOCITY) AND FOR FILLING BACERIOLOGICAL SAMPLES FROM ANY NEW WAER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED BY UTILITIES, INC. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, 1992 EDITION. THIS TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651-92.
3. FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS.

   THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

   A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
   B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.
      - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAINS.
      - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
      - PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE ON THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
      - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
   C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE UTILITY COMPANY UNTIL FLUSHING BEGINS.
   D. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE UTILITY COMPANY AND OBSERVED BY THE ENGINEER.
   E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED, THEN VERIFIED BY THE UTILITY.
4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTER DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION, AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. THE TEST SHALL BE PERFORMED BY A QUALIFIED BACKFLOW PREVENTION TECHNICIAN AS APPROVED BY THE UTILITIES CROSS-CONNECTION CONTROL PROGRAM.
5. EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED, LOCKED, AND VERIFIED BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
6. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES. THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER/SEWER DETAILS	TEMPORARY JUMPER NOTES	W-13



NOTES:

1. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
2. ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLOSURE.
3. ABOVE DETAIL IS BASED ON 2" RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES AND NUMBERS TO BE DETERMINED BY THE ENGINEER AND APPROVED BY PCU PRIOR TO INSTALLATION.
4. AUTOMATIC COMBINATION AIR AND VACUUM RELEASE VALVES (ACAVRV) SHALL UTILIZED AS APPROPRIATE OR REQUIRED BY PCU.

WATER/SEWER DETAILS	AUTOMATIC AIR RELEASE VALVE (ABOVE GROUND)	W-14

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

CHASTAIN-SKILLMAN, LLC
205 EAST ORANGE STREET
SUITE #110
LAKELAND, FL 33801-4611
(888) 646-1402

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ChastainSkillman

DCCM

CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
WATER MAIN STANDARD DETAILS

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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: D-02

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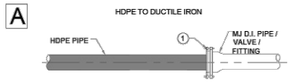
RESTRAINED PIPE TABLE

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)					
	PVC OR HDPE PIPE SIZE (IN)				
TYPE	4	6	8	10	12
11-1/4 BEND	2	3	4	4	5
22-1/2 BEND	4	5	7	8	9
45 BEND	8	11	14	16	19
90 BEND	18	25	33	39	45
TEE	3	18	35	49	64
EACH SIDE OF IN-LINE VALVE	39	55	72	87	102
POINT OF CONNECTION WITH HDPE PIPE (RESTRAINT LENGTH ALONG PVC PIPE)	36	48	60	70	79

NOTES:
(1) FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
(2) INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
(3) WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH.
(4) ALL LINE VALVES AND THROUGH RUN OF TEES SHALL HAVE MJ RESTRAINTS.
(5) LENGTH SHOWN IN THE TALBE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
WORKING PRESSURE = 150 PSI
SOIL DESIGNATION = SM (SAND-SILT)
LAYING CONDITIONS = 3
(6) ALL IN-LINE VALVES SHALL BE RESTRAINED AS DEAD END LINES ON BOTH SIDES OF VALVE.

WATER/SEWER DETAILS	RESTRAINED PIPE TABLE	W-17

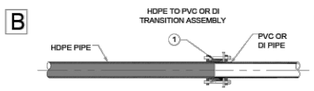
A



NO. DESCRIPTION
1. IPS x DIPS RESTRAINED MJ ADAPTER WITH STEEL PIPE STIFFENER AND KIT

NOTES:
A. HIGH DENSITY POLYETHYLENE (HDPE) FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906.
B. MECHANICAL FITTINGS SHALL BE SPECIFICALLY DESIGNED FOR USE WITH HDPE PIPE.
C. INSTALL STAINLESS STEEL INTERNAL STIFFENER IN THE END OF THE HDPE PIPE WHEN HDPE PIPE IS INSERTED INTO THE BELL END OF NON-HDPE PIPE, VALVE, FITTING, OR INTO THE HUB OF A MECHANICAL COUPLING.
D. INTERNAL STIFFENER CAN BE WEDGE TYPE OR SOLID BODY. STIFFENER WILL BE RATED FOR DR AND ID OF PIPE. FOR WATER, 304 OR 316 STAINLESS STEEL IS ALLOWED. FOR WASTEWATER, 316 SS IS REQUIRED.
E. MECHANICAL JOINT ADAPTERS SHALL BE PE4710 AND CAN BE MADE TO ASTM D 3261. IF MACHINED, ADAPTERS MUST MEET THE REQUIREMENTS OF ASTM F 2206. ADAPTERS SHALL HAVE A PRESSURE RATING EQUAL TO THE PIPE.
F. FIGURE ABOVE SHOWS TRANSITION TO BELL END OF DIP. FOR TRANSITION TO PLAIN END OF DIP, SEE PVC FIGURE.
G. EXTERNAL RESTRAINT DEVICES ARE NOT ALLOWED.

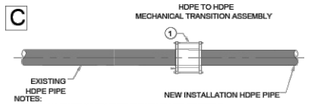
B



NO. DESCRIPTION
1. BELL MJ ADAPTER WITH MECHANICAL RESTRAINT KIT

NOTES:
A. FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906.
B. MECHANICAL FITTINGS USED SHALL BE SPECIFICALLY DESIGNED FOR USE WITH HDPE PIPE.
C. STAINLESS STEEL INTERNAL STIFFENERS SHALL BE INSTALLED IN THE END OF THE HDPE PIPE WHEN HDPE PIPE IS INSERTED INTO THE BELL END OF NON-HDPE PIPE, VALVE, FITTING, OR INTO THE HUB OF A BOLTED COUPLING
D. RESTRAINT COUPLER SLEEVE SHALL BE ASTM A513 WITH FUSION BONDED EPOXY. LOW ALLOY STEEL BOLTS CONFORM TO AWWA C111.4
E. WHEN PVC BELL END IS ENCOUNTERED, FIELD CUT PVC TO FORM PLAIN END PER MANUFACTURER'S INSTRUCTIONS. WHEN DI BELL END IS ENCOUNTERED, USE DETAIL HD1 A.

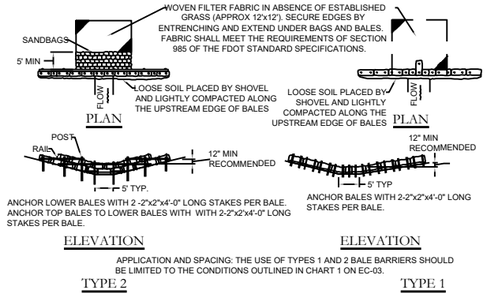
C



NO. DESCRIPTION
1. MECHANICAL HDPE COUPLING.
2. WALL BLOCKING, REFER TO DETAIL HD4 OR HD5
3. WALL ANCHOR OR FLEX RESTRAINT, REFER TO DETAIL HD4.

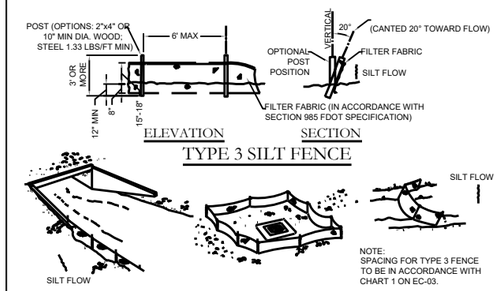
NOTES:
A. ONLY ALLOWED WHEN BUTT FUSION IS NOT POSSIBLE.
B. FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906.
C. MECHANICAL FITTINGS SHALL BE SPECIFICALLY DESIGNED FOR USE WITH HDPE PIPE.
D. INTERNAL STIFFENER CAN BE WEDGE TYPE OR SOLID BODY. STIFFENER WILL BE RATED FOR DR AND ID OF PIPE. FOR WATER, 304 OR 316 STAINLESS STEEL IS ALLOWED. FOR WASTEWATER 316 SS IS REQUIRED.

WATER/SEWER DETAILS	TRANSITION FROM HDPE TO OTHERS	W-18



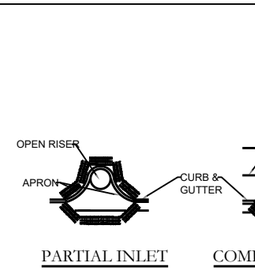
APPLICATION AND SPACING: THE USE OF TYPES 1 AND 2 BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART 1 ON EC-03.

WATER/SEWER DETAILS	BARRIERS FOR UN-PAVED DITCHES	EC-02

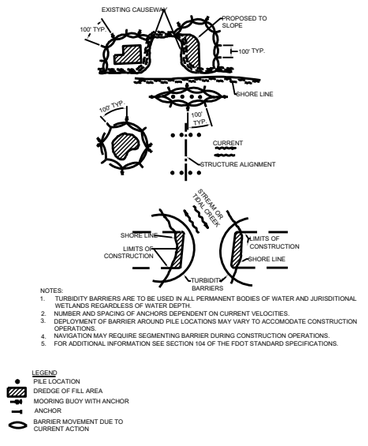


DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

WATER/SEWER DETAILS	SILT FENCE APPLICATIONS	EC-04

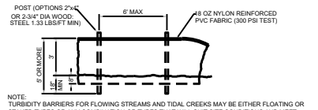


WATER/SEWER DETAILS	PROTECTION AROUND INLETS OR SIMILAR STRUCTURES	EC-06



NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER AND JURISDITIONAL WETLANDS REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

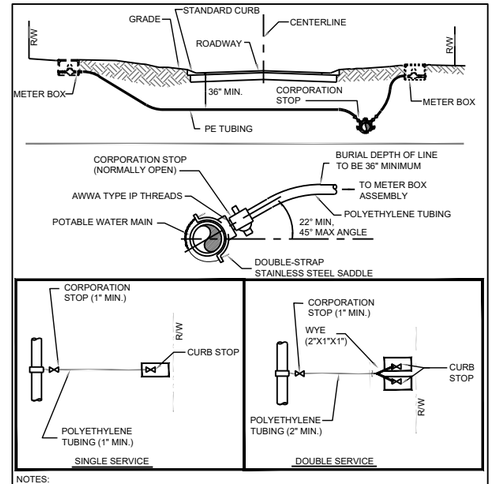
WATER/SEWER DETAILS	TURBIDITY BARRIER APPLICATIONS	EC-10



NOTE:
TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING OR STAKED TYPES OR ANY COMBINATION OR TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) SHALL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY CONSTRUCTION MANAGER.

STAKED TURBIDITY BARRIER

WATER/SEWER DETAILS	STAKED TURBIDITY BARRIER	EC-11



NOTES:
1. DRAWING NOT TO SCALE.
2. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
3. TUBING SHALL BE BLUE FOR POTABLE WATER AND PURPLE PANTONE 522C FOR RECLAIMED WATER IN COLOR.
4. CONTRACTOR TO INSTALL SERVICE LINE, AND TERMINATE LINE IN BOX WITH CURB STOP EQUIPPED WITH TEMP PLASTIC PLUG AT END.
5. CORP. & CURB STOP SHALL BE MANUFACTURED BY MUELLER OR ENGINEERED APPROVED EQUAL.

POTABLE WATER AND RECLAIMED WATER SERVICES (TYPICAL)	FIGURE

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

CHASTAIN-SKILLMAN, LLC
205 EAST ORANGE STREET
SUITE #110
LAKELAND, FL 33801-4611
(888) 646-1402

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ChastainSkillman

DCCM

CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
WATER MAIN STANDARD DETAILS

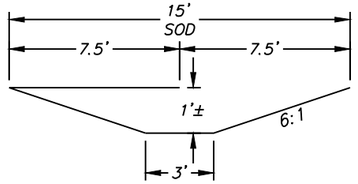
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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: D-03

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TYPICAL OUTFALL



N: 1163342.2481
LAT: N27° 32' 02.56"
E: 708969.2066
LONG: W81° 50' 13.43"

N: 1163342.2481
LAT: N27° 32' 02.56"
E: 709125.0067
LONG: W81° 50' 11.70"

STA: 293+71.00
OFF: 0.00'

293+00

294+00

294+50

N: 1163281.3253
E: 709024.1716
LAT: N27° 32' 01.96"
LONG: W81° 50' 12.82"

4" FIBER REINFORCED
CONCRETE ENTRY PAD

STA: 292+89, 64' RT
CONST. 12" 90° BEND

UTILITY EASEMENT

64'

N: 1163274.3219
E: 709054.5158
LAT: N27° 32' 01.89"
LONG: W81° 50' 12.48"

N: 1163271.3219
E: 709003.1715
LAT: N27° 32' 01.86"
LONG: W81° 50' 13.05"

21'

5'

10'

FOUNDATION
FLOOR ELEV: 116.00

BY PIPELINE
CONTRACTOR

STA: 292+89, 90° RT
CONST. 12" 90° BEND

BY PIPELINE
CONTRACTOR

BY TANK
CONTRACTOR

8.33%

18" PALM

N: 1163211.7895
LAT: N27° 32' 01.27"
E: 708969.2066
LONG: W81° 50' 13.43"

4" FIBER REINFORCED
CONCRETE SPLASH PAD

4" FIBER REINFORCED
CONCRETE SPLASH PAD

OSW

MSO

130'

N: 1163211.7895
LAT: N27° 32' 01.27"
E: 709125.0067
LONG: W81° 50' 11.70"

22" OAK

21" OAK

23" OAK

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NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

CHASTAIN-SKILLMAN, LLC
205 EAST ORANGE STREET
SUITE #110
LAKELAND, FL 33801-4611
(888) 646-1402

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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
VALVE STATION & TANK SITE PLAN

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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: C-01

0 10' 20'

SCALE: 1" = 10'

6' FENCE (SEE DETAIL) W/ THREE STRANDS OF BARBED WIRE (TYP.)

℄ 150,000 GALLON TANK

10'

63'

130'

21" OAK

23" OAK

18" PALM

+113.8 +113.5 +114.4 +114.0 +113.8 +113.4 +113.7 +113.2 +114.0 +113.7 +114.29 +114.3 +114.32 +114.1 +114.8 +114.12 +114.03 +113.6 +114.0 +113.6 +114.5 +114.1 +114.2 +113.2 +112.8 +113.2 +113.1 +110.8 +113.1 +111.3

114 115 113 112

JVE VW

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NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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205 EAST ORANGE STREET
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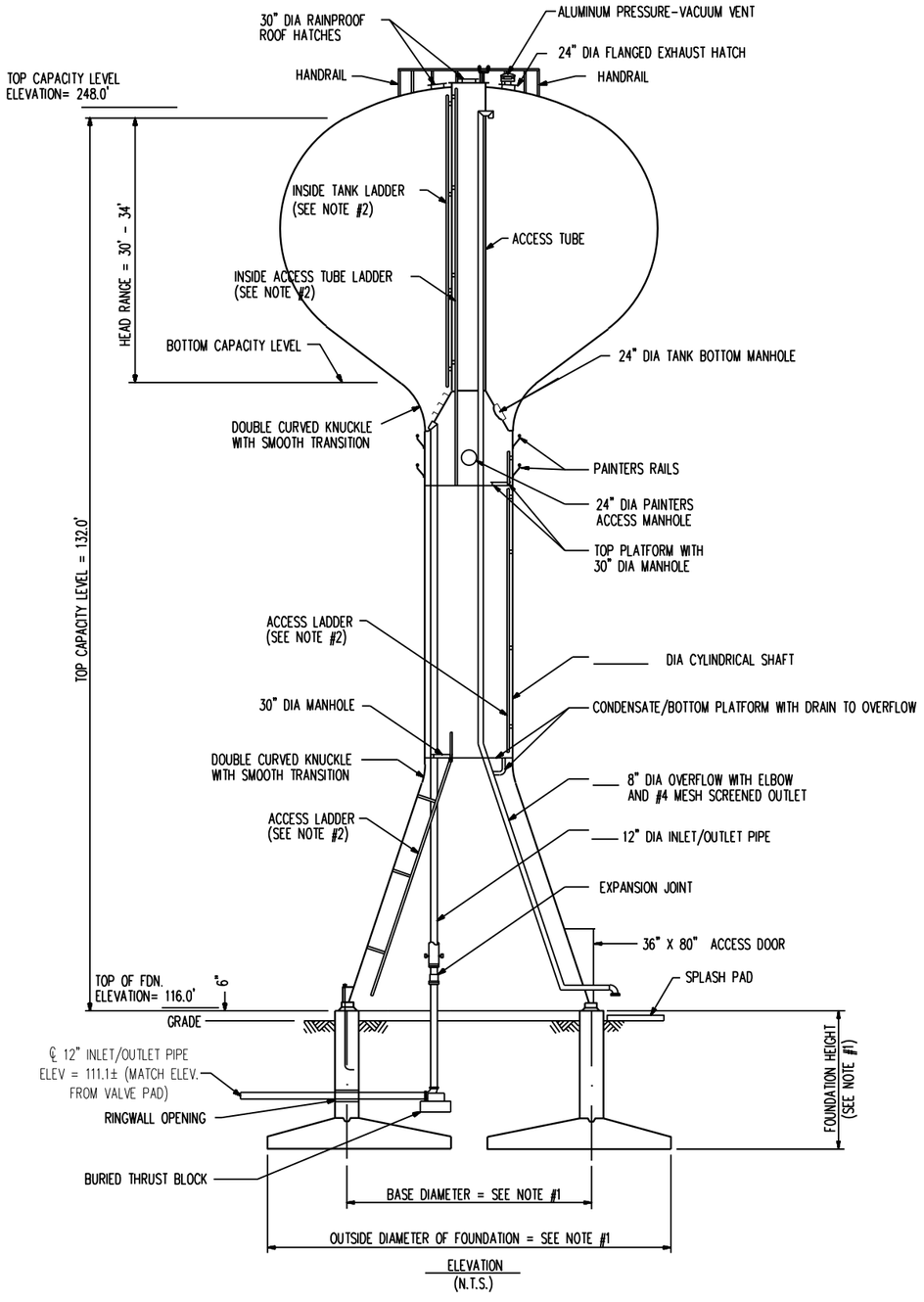
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
SITE FENCING

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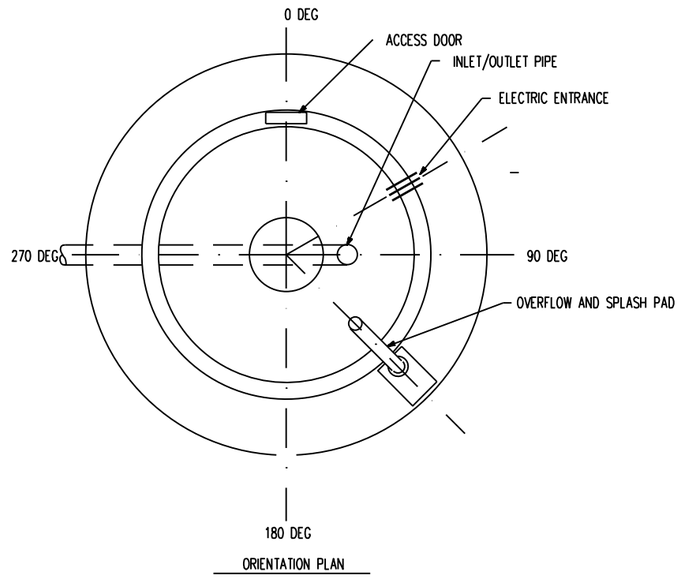
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: C-02



ELEVATION
(N.T.S.)



ORIENTATION PLAN

AZIMUTH	DESCRIPTION
0°	NORTH ARROW
	ELECTRIC ENTRANCE
135°	OVERFLOW SPLASH PAD
0°	ACCESS DOOR
270°	INLET/OUTLET PIPE
45°	SIGN/LOGO

GENERAL NOTES

1. BASE DIAMETER AND DIMENSIONS OF FOUNDATION SHALL BE DETERMINED BY THE TANK CONTRACTOR BASED UPON THE INFORMATION IN THE GEOTECHNICAL REPORT.
2. A GALVANZIED LADDER SAFETY DEVICE MEETING OSHA STANDARDS SHALL BE PROVIDED WHEN REQUIRED.
3. SEE SPECIFICATIONS FOR OPTIONAL ACCESSORIES AND ALTERNATE ITEMS.

P:\1037103\CAD\Water\1037103\Production Drawings\1037103-DEJ-2023-M.dwg M-01 Jun 02, 2026 4:15pm by: rcarnahan

NUMBER	DATE	DESCRIPTION
P-0	04/27/2026	ISSUED FOR BIDDING

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205 EAST ORANGE STREET
SUITE #110
LAKELAND, FL 33801-4611
(888) 646-1402

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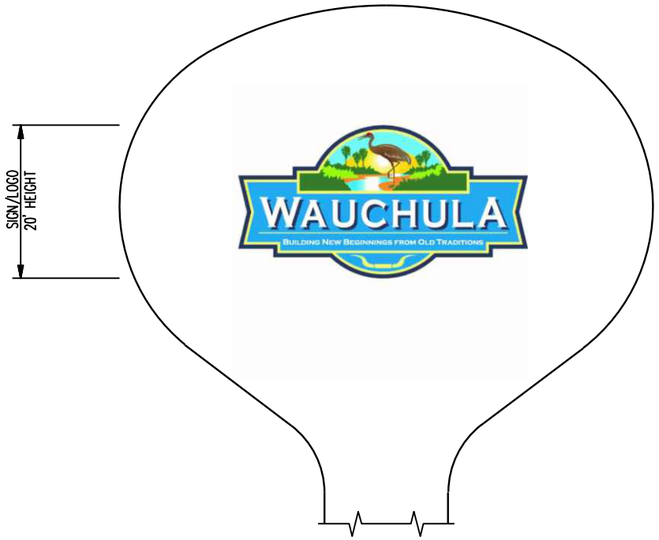
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
WATER TOWER DETAIL

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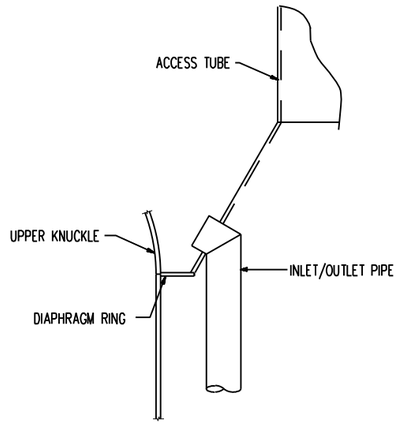
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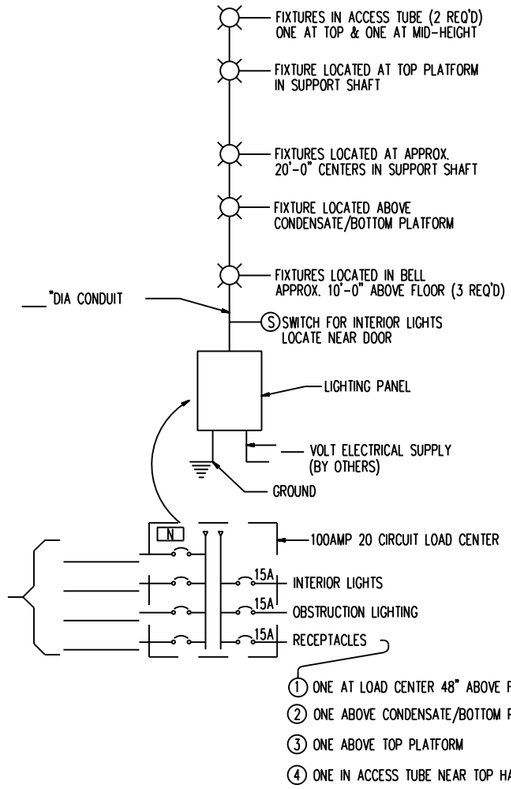
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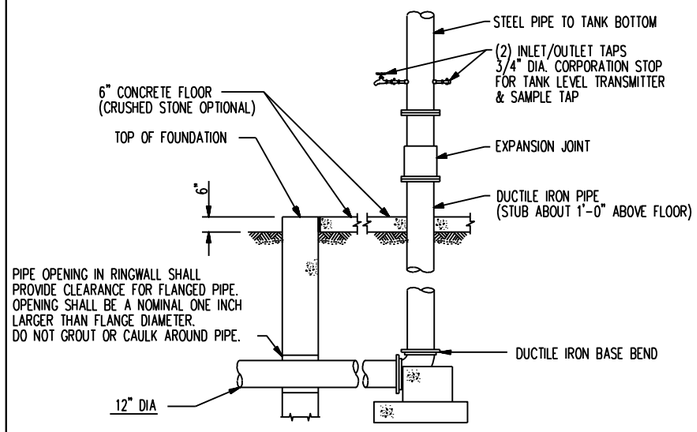
SIGN OR LOGO



INLET/OUTLET PIPE



ELECTRICAL SCHEMATIC



BURIED THRUST BLOCK DETAIL (N.T.S.)

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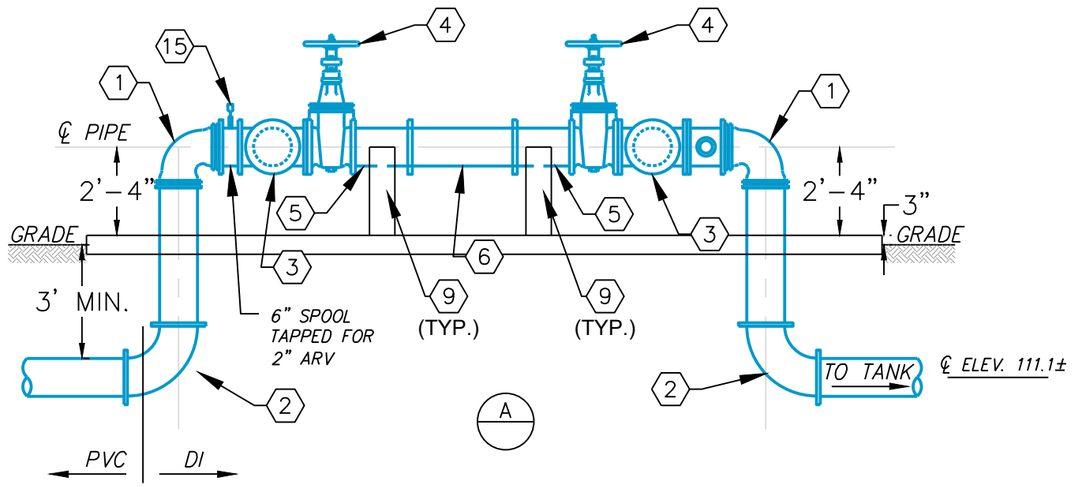
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
WATER TOWER DETAIL

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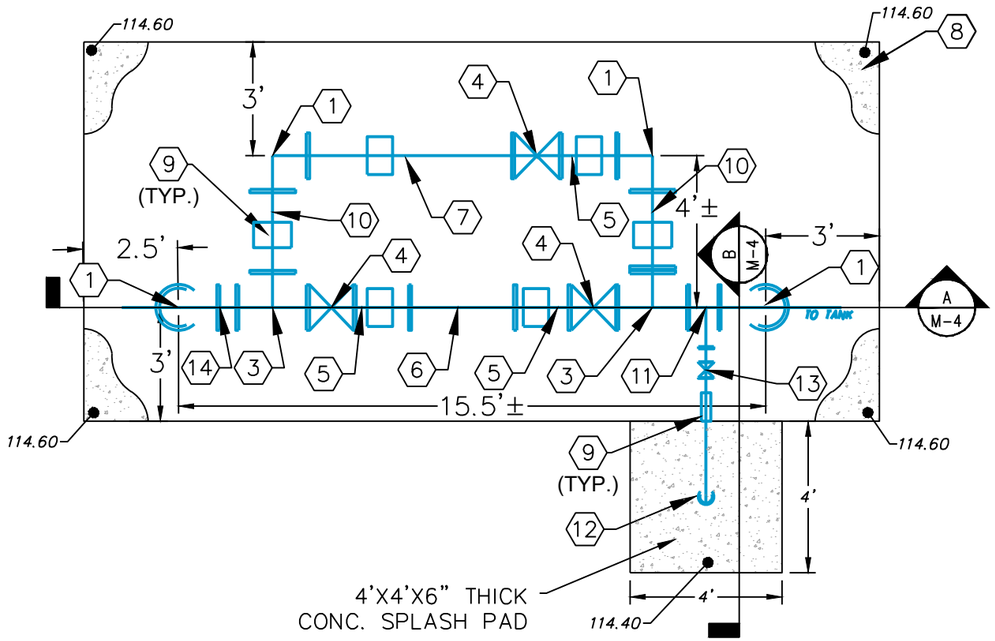
PROJECT NUMBER:
10371.03

SHEET NUMBER:
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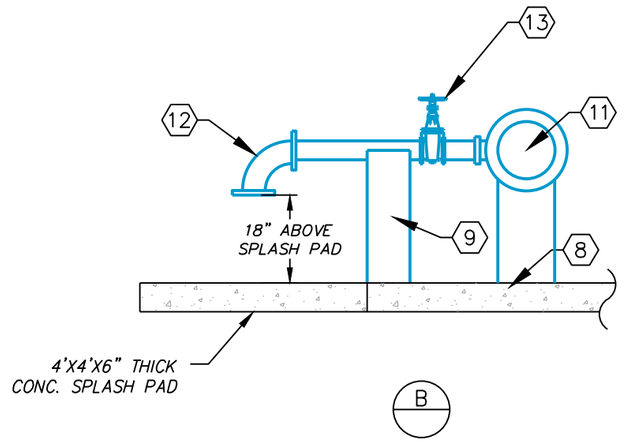


1/4" = 1'-0"

KEYNOTES		
CODE	DESCRIPTION	QUANTITY
1	12" 90° ELL – FLG	4 EA
2	12" 90° ELL – MJ	2 LF
3	12" TEE – FLG	2 EA
4	12" GATE VALVE	3 EA
5	12" X 18" LONG SPOOL – FLG/DI	3 EA
6	12" X 32" LONG SPOOL – FLG/DI	1 EA
7	12" X 64"± LONG SPOOL – FLG/DI	1 EA
8	10'X21' CONC. PAD (SEE STRUCTURAL DRAWINGS)	1 EA
9	CONCRETE PIPE SUPPORT (SEE STRUCTURAL DRAWINGS)	7 EA
10	12" X 2'± LONG SPOOL – FLG/DI	2 EA
11	12" X 4" TEE – FLG	1 EA
12	4" 90° ELL –FLG W/24 MESH S.S.SCREEN	1 EA
13	4" GATE VALVE	1 EA
14	12"X6" LONG SPOOL – FLG/DI	1 EA
15	2" ARV W/GATE VALVE	1 EA



1/4" = 1'-0"



3/8" = 1'-0"

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NUMBER	DATE	DESCRIPTION
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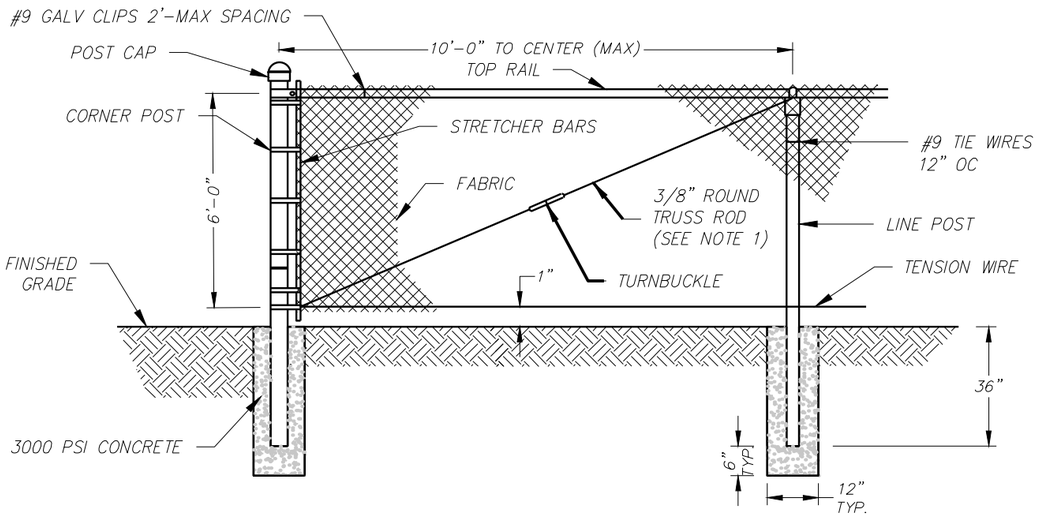
CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
VALVE STATION - PLAN & SECTIONS

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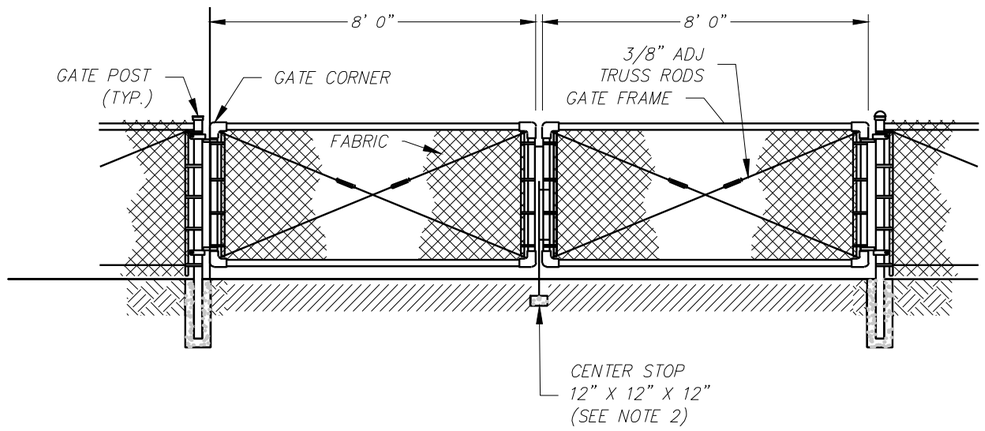
ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: M-03



FENCE DETAIL



DOUBLE SWING GATE DETAIL

NOTES:

1. TRUSS RODS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A GATE AND EACH SIDE OF A CORNER POST ONLY.
2. GATE SHALL BE CAPABLE OF BEING LOCKED SECURELY WITH MINIMUM SPACE BETWEEN GATES.
3. FENCING SHALL BE BLACK, FACTORY APPLIED VINYL CLAD.
4. THREE STRANDS OF BARBED WIRE SHALL BE INSTALLED ON. 2' FENCE AND GATE POST CAP EXTENSION SHALL BE INCORPORATED INTO FENCE AND/OR GATE DESIGN ACCORDINGLY. BARBED WIRE SHALL BE INSTALLED VERTICALLY AT GATE.
5. MINIMUM 15' COMPLETELY CLEAR OPENING REQUIRED TO ACCOMMODATE HEAVY EQUIPMENT AND/OR EMERGENCY VEHICLES.

CHAIN LINK FENCE (TYPICAL)

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CITY OF WAUCHULA
SOUTHWEST AREA ELEVATED
TOWER & WATER LINE
WAUCHULA, FLORIDA
DETAILS

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ENGINEER: VAUGHAN S. LEER, P.E.
REG. NO.: 94781

PROJECT NUMBER: 10371.03

SHEET NUMBER: M-04

GENERAL STRUCTURAL NOTES

SCOPE OF WORK

1. WORK DETAILED ON THE DRAWINGS AND APPLICABLE ITEMS DESCRIBED IN THE GENERAL STRUCTURAL NOTES.

DRAWINGS AND SPECIFICATIONS

1. DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT GIVEN.
2. ADVISE ENGINEER OF DIMENSIONAL DISCREPANCIES.
3. VERIFY ALL EXISTING FIELD CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT CONTRACT DOCUMENTS OR, WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT DATA OR SAMPLES FOR SUCH PORTION OF THE WORK.

CONSTRUCTION SAFETY

1. THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS AND OTHER APPLICABLE CODES. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

SHORING AND SUPPORT

1. WHEN REMOVAL OF STRUCTURAL ELEMENTS FOR MODIFICATIONS MAY CAUSE TEMPORARY WEAKNESS, EXCESSIVE DEFLECTIONS OR STRUCTURAL INSTABILITY, SHORING OR OTHER SUITABLE SUPPORTS SHALL BE PROVIDED UNTIL COMPLETION AND ADEQUATE CURING OF MODIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT CUT SHEETS WITH CERTIFIED CAPACITIES FOR SHORING TO BE USED. SHORING PLANS SHALL BE PREPARED, SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

VALUE ENGINEERING

1. ANY CHANGES TO THE STRUCTURE OR DESIGN SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.

FIELD MODIFICATIONS

1. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.
2. ANY CHANGES MADE WITHOUT PRIOR APPROVAL ARE SUBJECT TO REVIEW BY THE ENGINEER. CONTRACTOR SHALL PROVIDE SKETCHES, PHOTOGRAPHS AND WRITTEN DESCRIPTION OF EACH DEVIATION FROM THE PLANS FOR THE ENGINEER'S REVIEW.

BUILDING CODES AND SPECIFICATIONS

1. FLORIDA BUILDING CODE 8TH EDITION (2023).
2. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-22.
3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-19.
4. AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.

DESIGN LOADS

1. DEAD LOADS
   A. TABLE C3-1: MINIMUM DESIGN LOADS, ASCE 7-22
2. EQUIPMENT LOADS
   A. 12" GATE VALVE = 477 LBS
   B. 4" GATE VALVE = 96 LBS
   C. 12" TEE FLANGE = 40 LBS
   D. 12" x 4" TEE FLANGE = 315 LBS
   E. 12" x 18" LONG SPOOL = 182 LBS (INCLUDING FLANGE ON BOTH ENDS)
   F. 12" x 32" LONG SPOOL = 239 LBS (INCLUDING FLANGE ON BOTH ENDS)
   G. 12" x 64" LONG SPOOL = 372 LBS (INCLUDING FLANGE ON BOTH ENDS)
   H. 12" x 2' LONG SPOOL = 20 LBS (INCLUDING FLANGE ON BOTH ENDS)
3. WIND LOAD
   A. ULTIMATE DESIGN WIND SPEED, V_{ULT}.....147 MPH (3 SECOND GUST)
   B. NOMINAL DESIGN WIND SPEED, V_{ASD}.....114 MPH (3 SECOND GUST)
   C. EXPOSURE CATEGORY.....C
   D. ASCE 7-22 RISK CATEGORY.....III/IV
   E. IMPORTANCE FACTOR.....Iw = 1.0
   F. TOPOGRAPHIC FACTOR.....Kzt = 1.0
   G. WIND DIRECTIONALITY FACTOR.....Kd = 0.85
   H. GROUND ELEVATION FACTOR.....Ke = 1.00
   I. GUST EFFECT.....G = 0.85
   J. INTERNAL PRESSURE COEFFICIENT.....Gcpi = 0.00

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State of Florida Certificate of Authorization No. 9149

NUMBER	DATE	DESCRIPTION
P-0	05/08/2025	ISSUED FOR REVIEW

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CITY OF WAUCHULA
SW AREA ELEVATED TOWER
WAUCHULA, FLORIDA

GENERAL STRUCTURAL NOTES

NATHALIA HERNANDEZ LICENSE No 99996 STATE OF FLORIDA PROFESSIONAL ENGINEER

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE FLORIDA BUILDING CODES

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY THE ENGINEER, NATHALIA HERNANDEZ, P.E. AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

REG. NO. 99996

PROJECT NUMBER: 10371.03

SHEET NUMBER: S-01

S:\Projects\Florida Utilities\Wauchula – Pipe Supports 25-026\CAD\25-026_S-01.DGN.dwg S-01 May 08, 2025 3:42pm by mwf

GENERAL STRUCTURAL NOTES

SHALLOW SPREAD FOUNDATIONS

1. SHALLOW FOUNDATION DESIGN BASED ON 2000 PSF MINIMUM ALLOWABLE BEARING PRESSURE. THIS VALUE SHALL BE VERIFIED BY THE CONTRACTOR.
2. NOTIFY ENGINEER IF FOOTING EXCAVATION REVEALS UNSUITABLE OR UNSTABLE SOILS OR MATERIALS OR CONDITIONS NOT PREVIOUSLY ANTICIPATED.
3. CONTRACTOR SHALL CONSIDER THE POSSIBLE IMPACT OF GROUNDWATER ON CONSTRUCTION TECHNIQUES, SEASONAL VARIATIONS, ANY OTHER SITE INDICATORS AND HIS OWN JUDGMENT.
4. SOIL DIRECTLY BELOW FOUNDATIONS AND SLAB ON GRADE SHALL BE COMPACTED TO 98% OF THE ASTM D 1557 (MODIFIED PROCTOR) MAXIMUM DRY DENSITY.
5. PREPARE SITE AND SOILS IN ACCORDANCE WITH A GEOTECHNICAL INVESTIGATION REPORT.
6. A QUALIFIED LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING CONSTRUCTION TO INSPECT FOUNDATION EXCAVATION AND INSPECT AND MONITOR PLACEMENT OF COMPACTED FILL.

PORTLAND CEMENT CONCRETE

1. CONCRETE PROPERTIES
   - A. MINIMUM 28-DAY COMPRESSIVE STRENGTH, f'c = 4,000 PSI
   - B. WATER CEMENT RATIO, W/C NOT TO EXCEED 0.50
   - C. 1 ½" MAX. NOMINAL DIAMETER OF COARSE AGGREGATE
   - D. CEMENT TYPE I OR II
   - E. FOUNDATIONS 4000 PSI, 3" TO 5" SLUMP
   - F. FILLED CELLS IN CMU 3000 PSI, 8" TO 11" SLUMP, 3/8" PEA GRAVEL
   - G. SLABS ON GRADE 4000 PSI, 3" TO 5" SLUMP (LIGHT INDUSTRIAL TRAFFIC)
2. FLY ASH SHALL NOT EXCEED 20 PERCENT BY WEIGHT OF TOTAL CEMENT, IF USED.
3. CONTRACTOR SHALL STRICTLY ADHERE TO SLUMP LIMITS. SUPERPLASTICIZER MAY BE USED AT THE CONTRACTORS OPTION TO INCREASE WORKABILITY.
4. MAXIMUM MIXING TIME (FROM BATCHING TO PLACEMENT)
   - A. AIR TEMPERATURE LESS THAN 85° F: 90 MINUTES
   - B. AIR TEMPERATURE 85° F TO 90° F: 75 MINUTES
   - C. AIR TEMPERATURE OVER 90° F: 60 MINUTES
5. MINIMUM COVER FOR REINFORCEMENT
   - A. FOOTINGS, 3 INCHES TO BOTTOM AND UNFORMED SIDES, 2 INCHES TO FORMED SIDES
   - B. OTHER, 2 INCHES TO MAIN REINFORCING, 1 ½" INCHES TO TIES AND STIRRUPS.
6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE BY STANDARD ACCESSORIES DURING CONCRETE PLACEMENT.
7. REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A615.
8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
9. DETAIL AND FABRICATE REINFORCEMENT IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
10. PROVIDE MINIMUM LAP SPLICES PER ACI 318-19 FOR ALL REINFORCING BARS, UNLESS OTHERWISE NOTED. STAGGER SPLICES IN ADJACENT BARS AT LEAST 24 INCHES, EXCEPT IN BEAMS AND COLUMNS.
11. IN WALL FOOTINGS, GRADE BEAMS AND BOND BEAMS, PROVIDE BENT BARS AT CORNERS AND INTERSECTIONS OF THE SAME NUMBER AND SIZE AS STRAIGHT BARS.
12. APPLY CURING COMPOUND TO SLAB WITHIN TWO HOURS OF COMPLETION OF FINISHING OPERATIONS. USE LIQUID MEMBRANE FORMING COMPOUND COMPLYING WITH ASTM C309 TYPE 1 CLASS A. APPLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
13. PROVIDE BENT BARS AT CORNERS OF THE SAME NUMBER AND SIZE AS STRAIGHT BARS.

CONCRETE SLAB ON GRADE

1. THE INTENDED USE OF THE SLAB ON GRADE IS FOR LIGHT INDUSTRIAL ONLY.
2. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 4000 PSI
3. MINIMUM THICKNESS: 6 INCHES
4. MAXIMUM SLUMP AT POINT OF DELIVERY: 5 INCHES
5. MAXIMUM AGGREGATE SIZE: 1 INCH
6. ENTRAINED AIR CONTENT: 4.5%
7. WELDED WIRE FABRIC SHALL BE WWF 6X6-W2.9XW2.9, UNLESS OTHERWISE NOTED, CONFORMING TO ASTM A 185.
8. THE WELDED WIRE FABRIC SHALL BE PLACED IN THE CENTER OF THE DEPTH OF SLAB ON GRADE UNLESS OTHERWISE NOTED. ALL MESH JOINTS SHALL BE LAPPED TWO FULL MESHES.
9. INTERRUPT TYPICAL SLAB REINFORCEMENT AT ALL CONSTRUCTION AND EXPANSION JOINTS.
10. CUT ALTERNATE WIRES ALONG THE LINE OF SAW CUT CONTROL JOINTS PRIOR TO PLACING CONCRETE. MAKE SAW CUTS WITHIN 12 HOURS OF CONCRETE PLACEMENT, OR AS SOON AS CUTTING CAN BE DONE SUCH THAT THE SAW BLADE DOES NOT DISLODGE AGGREGATE AND THE EDGES OF THE CUT DO NOT RAVEL.
11. PROVIDE ½" PREFORMED EXPANSION JOINT MATERIAL WHERE SLAB ABUTS VERTICAL SURFACES SUCH AS WALLS AND COLUMNS.
12. PROVIDE TERMITE PROTECTION TO SOIL PER FLORIDA BUILDING CODE 8TH EDITION (2023) BEFORE SLAB PLACEMENT.
13. PROVIDE VAPOR RETARDER UNDER ALL SLABS ON GRADE IN ENCLOSED SPACE.
14. APPLY CURING COMPOUND TO SLAB WITHIN TWO HOURS OF COMPLETION OF FINISHING OPERATIONS. USE LIQUID MEMBRANE FORMING COMPOUND COMPLYING WITH ASTM C 309 TYPE 1 CLASS A. THE COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
15. THE CONTRACTOR SHALL CONFIRM THAT THE CURING COMPOUND WILL NOT INTERFERE WITH THE BONDING OF ANY APPLIED FLOOR SURFACE. IF THE CURING COMPOUND IS FOUND TO INTERFERE WITH BONDING, THE USE OF WET BURLAP AND TRICKLE HOSES IS ACCEPTABLE.
16. FOR LARGE SLABS, IT IS RECOMMENDED THAT THE SLAB BE CAST IN ALTERNATING LONG STRIPS AND SAW CUT TRANSVERSELY TO MINIMIZE SHRINKAGE CRACKING.

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State of Florida Certificate of Authorization No. 9149

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CITY OF WAUCHULA
SW AREA ELEVATED TOWER
WAUCHULA, FLORIDA

GENERAL STRUCTURAL NOTES

NATHALIA HERNANDEZ LICENSE No 99996 STATE OF FLORIDA PROFESSIONAL ENGINEER

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AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

PROJECT NUMBER: 10371.03

SHEET NUMBER: S-02

S:\Projects\Florida Offices\Wauchula – Fire Reports 25-069\CAD\25-069_S-01.02.02.dwg S-02 May 08, 2025 3:40pm kyl mstff

LIST OF ABRREVIATIONS

@	AT	(L)	LONG
ABUT.	ABUTMENT	LAT.	LATERAL
A.F.F.	ABOVE FINISH FLOOR	L.H.	LEFT HAND
AB.	ANCHOR BOLT	L.G.	LIGHT GAUGE
ARCH.	ARCHITECTURAL/ ARCHITECT'S(DRAWINGS)	L.W.	LONG WAY
		LIN. FT.	LINEAR FOOT
L.	ANGLE	LLO	LONG LEG OUT
L'S	ANGLES	LLV	LONG LEG VERTICAL
B.	BOTTOM	LONG.	LONGITUDINAL
B/	BOTTOM OF	MAT'L.	MATERIAL
B.B.	BOTTOM BAR	MAX.	MAXIMUM
B.J.	BAR JOIST	MECH.	MECHANICAL
BCK.	BACK	MIN.	MINIMUM
℄	BASELINE	MSL	MEAN SEA LEVEL
BRIDG.	BRIDGING	MPH	MILES PER HOUR
BRNG.	BEARING	NO.	NUMBER
BOT.	BOTTOM	N.S.	NON-SHRINK
BLDG.	BUILDING	O.C.	ON CENTER
℄	CENTERLINE	O.C.E.W.	ON CENTER EACH WAY
C. TO C.	CENTER TO CENTER	OPNG.	OPENING
C.I.P.	CAST IN PLACE	O.H.	OPPOSITE HAND
CLR.	CLEAR	O.D.	OUTSIDE DIAMETER
C.M.U.	CONCRETE MASONRY UNIT	O.F.P.	OUTSIDE FACE OF PANEL
COL.	COLUMN	PAV'T.	PAVEMENT
CONC.	CONCRETE	PL	PLATE
CONT.	CONTINUOUS	PT.	POINT
CONST.	CONSTRUCTION	P.T.	PRESSURE TREATED
C.J.	CONSTRUCTION JOINT	PSF	POUND PER SQUARE FOOT
CU. FT.	CUBIC FOOT	PSI	POUNDS PER SQUARE INCH
CU. IN.	CUBIC INCH	P.G.	PROFILE GRADE
CU. YD.	CUBIC YARD	PROP.	PROPOSED
DET.	DETAIL	RAD.	RADIUS
DIA.	DIAMETER	REINF.	REINFORCING
Ø	DIAMETER STRUC. STL.	REQ.	REQUIRE
DWG.	DRAWING	REQ'D.	REQUIRED
DWGS.	DRAWINGS	REQMTS.	REQUIREMENTS
EA.	EACH	R.H.	RIGHT HAND
EL.	ELEVATION	(S)	SHORT
ELEV.	ELEVATION	SECT	SECTION
EQ.	EQUALLY/EQUAL	SIM.	SIMILAR
E.W.	EACH WAY	SPL.	SPLICE
EXP.	EXPANSION	SP.	SPACE OR SPACING
EXIST.	EXISTING	S.F.	SQUARE FOOT
EXT.	EXTERIOR	S.W.	SHORT WAY
F.B.	FIELD BEND	S.Y.	SQUARE YARD
FIN. FLR.	FINISH FLOOR	STD.	STANDARD
F.F.	FINISH FLOOR	STA.	STATION
FLR.	FLOOR	STL.	STEEL
FLNG.	FLANGE	STFNR.	STIFFENER
FT.	FOOT	STRUC.	STRUCTURAL
FTG.	FOOTING	SYMM.	SYMMETRICAL
FND.	FOUNDATION	T.	TOP
FRMG.	FRAMING	T/	TOP OF
GALV.	GALVANIZED	T.B.	TOP BAR
GA.	GAGE	T & B	TOP AND BOTTOM
G/B	GIRDER BEARING	T/J	TOP OF BAR JOIST
H.S.	HIGH STRENGTH	T/P	TOP OF PANEL
HK.	HOOK	TRANS.	TRANSVERSELY/TRANSVERSE
HORIZ.	HORIZONTAL	T/W	TOP OF WALL
H.S.A.	HEADED STUD ANCHOR	TYP.	TYPICAL
IN.	INCH	U.N.O.	UNLESS NOTED OTHERWISE
I.D.	INSIDE DIAMETER	V.I.F.	VERIFY IN FIELD
INT.	INTERIOR	WT.	WEIGHT
ISO.	ISOLATION	WWR	WELDED WIRE REINFORCING
J/B	JOIST BEARING	W.F.	WIDE FLANGE
JT.	JOINT	W/	WITH
KIP.	KILOPOUNDS (KIPS.)	W.P.	WORK POINT
K.O.	KNOCK-OUT	YD.	YARD

L_d MINIMUM LAP SPLICE AND EMBEDMENT LENGTHS
f'_c = 4000 PSI, f_y = 60 KSI

BAR	d_b BAR DIAMETER (in.)	L_d CASE 1 (in.)	L_d CASE 2 (in.)	
#3	0.375	18	27	
#4	0.5	24	36	
#5	0.625	29	44	
#6	0.75	35	53	
#7	0.875	42	62	
#8	1	48	71	

CASE 1:	**REQUIREMENTS:**
	MINIMUM COVER OF d_b IS PROVIDED ALONG WITH MINIMUM CLEAR SPACING OF $2d_b$,
	OR MINIMUM CLEAR COVER OF d_b AND A MINIMUM CLEAR SPACING OF d_b ARE PROVIED ALONG WITH MINIMUM TIES OR STIRRUPS
CASE 2:	**DOES NOT MEET CASE 1 REQUIREMENTS**

REINFORCING MINIMUM DEVELOPMENT

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State of Florida Certificate of Authorization No. 9149

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(888) 646-1402

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CITY OF WAUCHULA
SW AREA ELEVATED TOWER
WAUCHULA, FLORIDA

GENERAL STRUCTURAL NOTES

NATHALIA HERNANDEZ LICENSE No 99996 STATE OF FLORIDA PROFESSIONAL ENGINEER

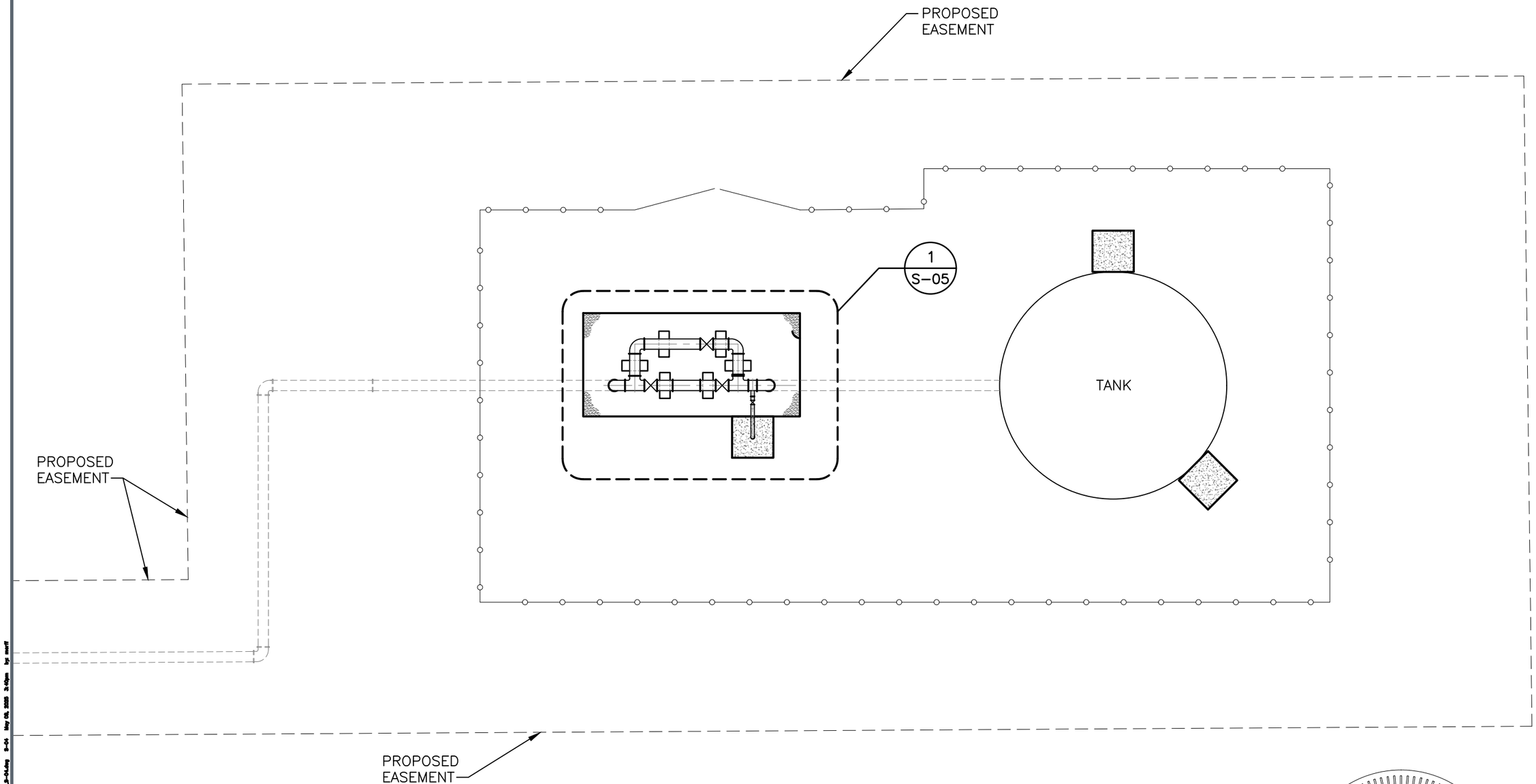
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SHEET NUMBER: S-03

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1 S-04 SITE PLAN
SCALE: 1" = 10'-0"

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SITE PLAN

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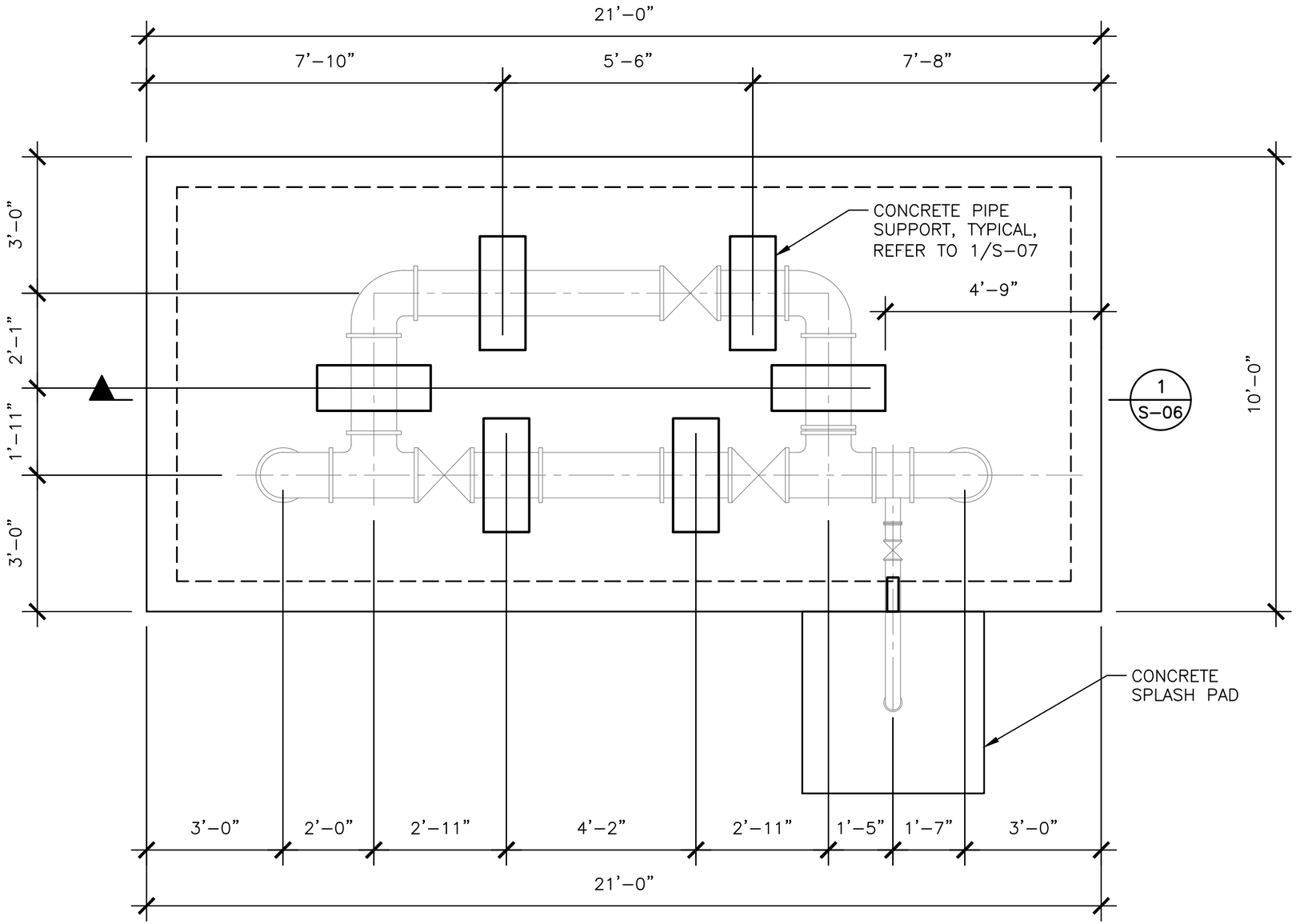
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1 S–05 VALVE STATION PLAN

SCALE: 3/8" = 1'–0"

N

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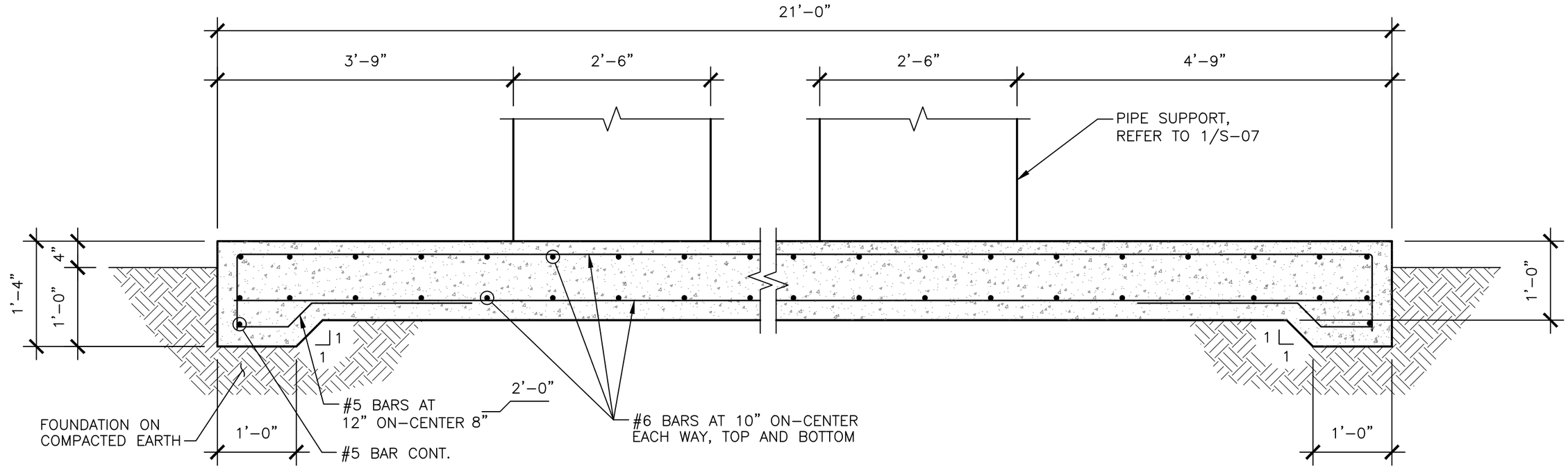
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VALVE STATION PLAN

PROJECT NUMBER: 10371.03

SHEET NUMBER: S-05

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1 S–06 SECTION

SCALE: 3/4" = 1'–0"

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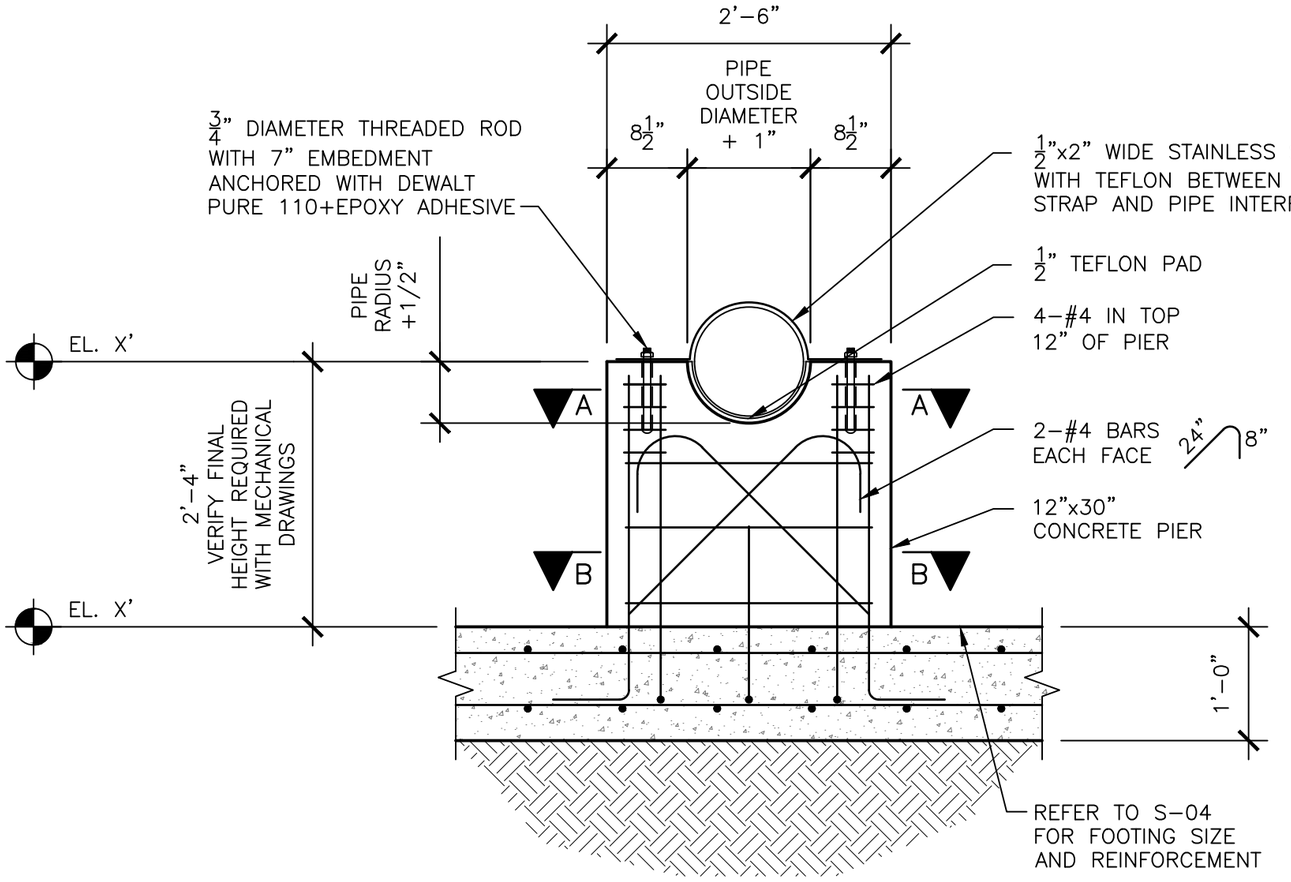
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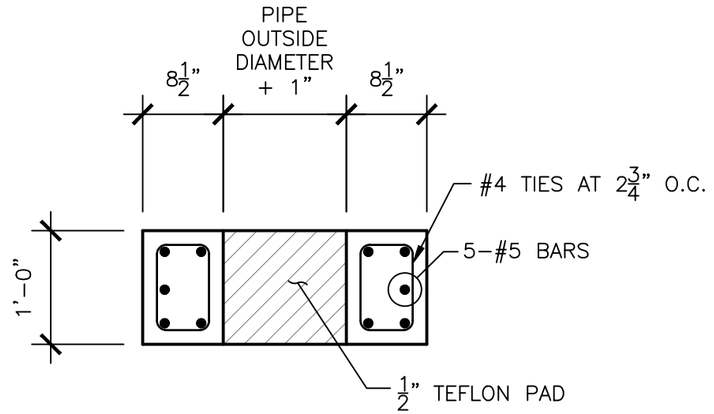
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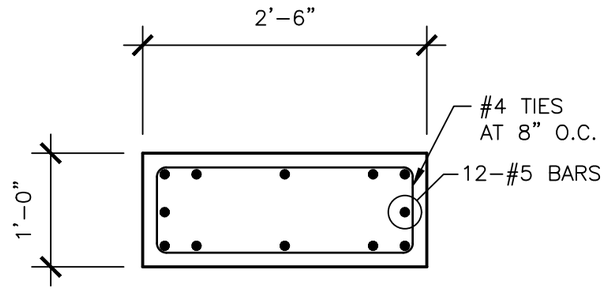
SHEET NUMBER: S-06

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SECTION A–A



SECTION B–B

1 / S–07 PIPE SUPPORT DETAIL

SCALE: 3/4" = 1'–0"

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SECTIONS

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ELECTRICAL SYMBOLS - PLANS

CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
○	⊢○		INCANDESCENT OR HID FIXTURE
▭	⊢▭		FLUORESCENT FIXTURE - CIRCLE INDICATES J-BOX ABOVE
			AREA LIGHT AND POLE
			LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
			EXIT FIXTURE, ARROWS AS INDICATED, SHADE AREA INDICATES EXIT FACE
			EMERGENCY LIGHTING UNIT (BATTERY POWERED)
○1b			FIXTURE CONNECTED TO CKT #1, SWITCH "B"
A 2/40			FIXTURE TYPE "A", 2-40 WATT LAMPS TYPICAL FOR ROOM NOTED, UON
CLG			DUPLEX RECEPTACLE
	G		DUPLEX RECEPTACLE GFCI TYPE
CLG			DOUBLE DUPLEX RECEPTACLE
			RECEPTACLE, TYPE AS NOTED ON PLANS
	$		SINGLE POLE SWITCH
	$2		DOUBLE POLE SWITCH
	$3		THREE WAY SWITCH
	$4		FOUR WAY SWITCH
	$b		"b" DENOTES OUTLET CONTROLLED
	$K		KEY OPERATED SWITCH
	$M		MANUAL MOTOR STARTER
			OCCUPANCY SENSOR
			TELEPHONE OUTLET
			DATA OUTLET
			TELEPHONE/DATA OUTLET COMBO
			THERMOSTAT OUTLET + 66" UON
J	J		JUNCTION BOX FOR WALL MOUNT
	+18"		INDICATES HEIGHT FROM FINISHED FLOOR GRADE TO CENTERLINE OF DEVICE
	*		+ 18" UON
	**		+ 48" UON
			CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
	X Y		DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN
			POWER DISTRIBUTION SWITCHBOARD
			SURFACE MOUNTED PANELBOARD
			FLUSH MOUNTED PANELBOARD
			SHEET NOTE, SEE NOTE INDICATED
			DEVICE CONNECTION POINT
			INTERCEPTION POINT FROM EXISTING TO NEW

	HAND HOLE, 11"H X 17"L X 12" D, UON
PB	PULLBOX, 36"H X 60"L X 36"D, UON
	PAD MOUNTED TRANSFORMER/ DRY TYPE TRANSFORMER
	NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED ON ONE-LINE DIAGRAM
	FUSIBLE DISCONNECT SWITCH, 3P UON SIZE AS NOTED ON ONE-LINE DIAGRAM
	DISCONNECT WITH EMERGENCY STOP
	FIELD CONTROL STATION SEE SCHEMATIC DIAGRAM
	FEEDER DESIGNATION SEE SCHEDULE FOR SIZE
	EQUIPMENT TAG
	CONDUIT CONCEALED IN WALLS OR CEILING 3/4"C, 2 - #12, 1 - #12G, UON
	CONDUIT UNDER GROUND 3/4" C., 2 - #12; 1 - #12G, UON
	CONDUIT EXPOSED 3/4" C., 2 - #12, 1 - #12G, UON
	QUANTITY #12 WIRE CURVE LINE INDICATES GROUND WIRE
#10	WIRE SIZE OTHER THAN #12 CURVE LINE INDICATES GROUND WIRE
	CONDUIT STUBBED UP INTO EQUIPMENT AND PLUGGED
1-TSP	NUMBER OF 18 AWG TWISTED SHIELDED PAIR CABLE
G	CONNECTION TO GROUND BUS
G	GROUNDING CONDUCTOR 30" BELOW GRADE, #4/0 UON
	GROUND ROD, 3/4" X 10' - 0" GW NEXT TO SYMBOL INDICATES GROUND ROD IN HANDHOLE
G	EXOTHERMIC WELD CONNECTION
	DUCT BANK
E E E	EXISTING UNDERGROUND ELECTRICAL
A-1,3	HOMERUN TO PANEL A, CIRCUIT 1 AND 3
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT STUB-OUT AND CAPPED
J	FLEXIBLE CONDUIT CONNECTION
	MOTOR CONNECTION
	MOTOR CONNECTION, DISCONNECT FURNISHED WITH MOTOR
SV	SOLENOID VALVE
	DISCONNECTS OR COMBINATION STARTERS SERVING EQUIPMETN SHOWN. PROVIDE CONNECTING FEEDERS BETWEEN DEVICES, SIZE TO MATCH SERVING FEEDER.

ELECTRICAL SYMBOLS - ONE-LINE DIAGRAM

DM	DIGITAL MULTI-FUNCTION METER
3	CURRENT TRANSFORMER, QUANTITY INDICATED
3	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	POWER TRANSFORMER
	FEEDER DESIGNATION - SEE SCHEDULE OR ONE-LINE DIAGRAM FOR SIZE
30A MCP	CIRCUIT BREAKER, 3 POLE UNLESS NOTED MCP INDICATES MOTOR CIRCUIT PROTECTOR
4 RV	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING UNLESS NOTED RV=REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
	FUSE
	DISCONNECT SWITCH, NON-FUSIBLE, SEE PLANS FOR RATING
F	DISCONNECT SWITCH, FUSIBLE, SEE PLANS FOR RATING
X	MOTOR, X = HORSEPOWER
G	GENERATOR
	SURGE ARRESTER
	GROUND
	DELTA CONNECTION
A	WYE CONNECTION
PFR	POWER FAILURE RELAY
VFD	VARIABLE FREQUENCY DRIVE
	SOLID STATE STARTER
	CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
GFP	GROUND FAULT PROTECTION
	INCOMING ELECTRIC SERVICE

POWER WIRE COLOR CODE

SYSTEM	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
240Y/120V	BLACK	RED		WHITE	GREEN
480Y/277V	BROWN	ORANGE	YELLOW	GREY	GREEN

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS

NORMALLY OPEN	NORMALLY CLOSED	DEVICE
		CONTACT
		TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
		TIMED CONTACT CONTACT ACTION RETARDED ON DE-ENERGIZATION
		PUSH BUTTON SINLGE CIRCUIT MOMENTARY CONTACT
		PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
		LIMIT SWITCH
		LIQUID LEVEL SWITCH
		PRESSURE OR VACUUM SWITCH
		FLOW SWITCH
		TEMPERATURE SWITCH
		SELECTOR SWITCH - CAN BE 2-WAY OR 3-WAY
		MANUAL MOTOR STARTER
	D/I	DOOR INTERLOCK SWITCH
OL		MOTOR OVERLOAD RELAY CONTACT
		MOTOR OVERLOAD HEATER
A		PILOT LIGHT R=RED, W=WHITE, G=GREEN, A=AMBER, C=CLEAR
R		PILOT LIGHT-PUSH TO TEST
R		RELAY
TD		TIME DELAY RELAY
M		STARTER COIL
S		SOLENOID OPERATED VALVE
		MOTOR
		BELL OR BUZZER
ETM		ELAPSED TIME METER
		FUSE
		CONTROL POWER TRANSFORMER
		GROUND
		WIRING IN MOTOR STARTER OR CONTROL PANEL
		FIELD WIRING
		TERMINAL BLOCK IN FCS
		TERMINAL BLOCK IN MOTOR STARTER OR PANEL
		TERMINAL BLOCK IN PLC
PFR		POWER FAIL RELAY
		SPACE HEATER
		RESISTOR
		CIRCUIT BREAKER
PR		PLC OUTPUT ISOLATION RELAY

GENERAL NOTES

1. FIELD VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
2. REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISTING PIPING.
3. BELOW GRADE CONDUITS SHALL BE INSTALLED A MINIMUM DEPTH OF 18" BELOW THE FINISHED FLOOR/GRADE OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
4. PROVIDE ELECTRICAL SYSTEM TESTING PER CONTRACT SPECIFICATION SECTION PRIOR TO ENERGIZING ANY ELECTRICAL EQUIPMENT OR SERVICES.

FREQUENTLY USED ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ALT	ALTERNATE
ARCH	ARCHITECT/ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINISHED GRADE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DP	DOUBLE POLE
DT	DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENG	ENGINEER
EWC	ELECTRIC WATER COOLER
F	FUSED
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FLR	FLOOR
FVNR	FULL VOLTAGE NON REVERSING
G/GND	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GRS	GALVANIZED RIGID STEEL CONDUIT
HH	HANDHOLE
HP	HORSEPOWER
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
MCM	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT AMPERE
KVAR	KILO-VOLT AMPERE REACTIVE
KW	KILOWATT
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE
MIC	MICROPHONE
ϕ	PHASE OR DIAMETER
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLAY RELAY OR OVERLAY CONTACT
P	POLE OR PHASE
PC	PLUMBING CONTRACTOR
PF	POWER FACTOR
PH	PHASE
PT	POTENTIAL TRANSFORMER
PRI	PRIMARY
PVC	POLYVINLY CHLORIDE
SN	SOLID NEUTRAL
SP	SINGLE POLE
SPKR	SPEAKER
ST	SINGLE THROW SWITCH
SW	SWITCHBOARD
SWBD	SQUARE
SQ	TIME CLOCK
TC	TIME DELAY
TD	TAMPER PROOF
TP	TIMING RELAY
TR	TD CLOSE TO DENERGIZATION
TDCD	TD CLOSE ON ENERGIZATION
TDCE	TD OPEN ON DENERIZATION
TDOD	TD OPEN ON ENERGIZATION
TDOE	TELEPHONE
TEL	TELEPHONE TERMINAL BOARD
TTB	TELEPHONE TERMINAL CABINET
TTC	TRANSIENT VOLTAGE SURGE SUPPRESSION
TVSS	TYPICAL
TYP	VOLT-AMPERE
VA	VARIABLE FREQUENCY DRIVE
VFD	WIRE OR WATTS
W	WIREMOLD (SURFACE MTD)
WM	WEATHERPROOF
WP	EXPLOSION PROOF
XP	

P:\400-70713 Wauchula Water Main Tank Controls\5 ACAD\Plan Sheets & Working Drawings\103703-Electrical Symbols and Abbreviations.dwg ELECTRICAL SYMBOLS AND ABBREVIATIONS Oct 09, 2025 12:12pm by: JREED

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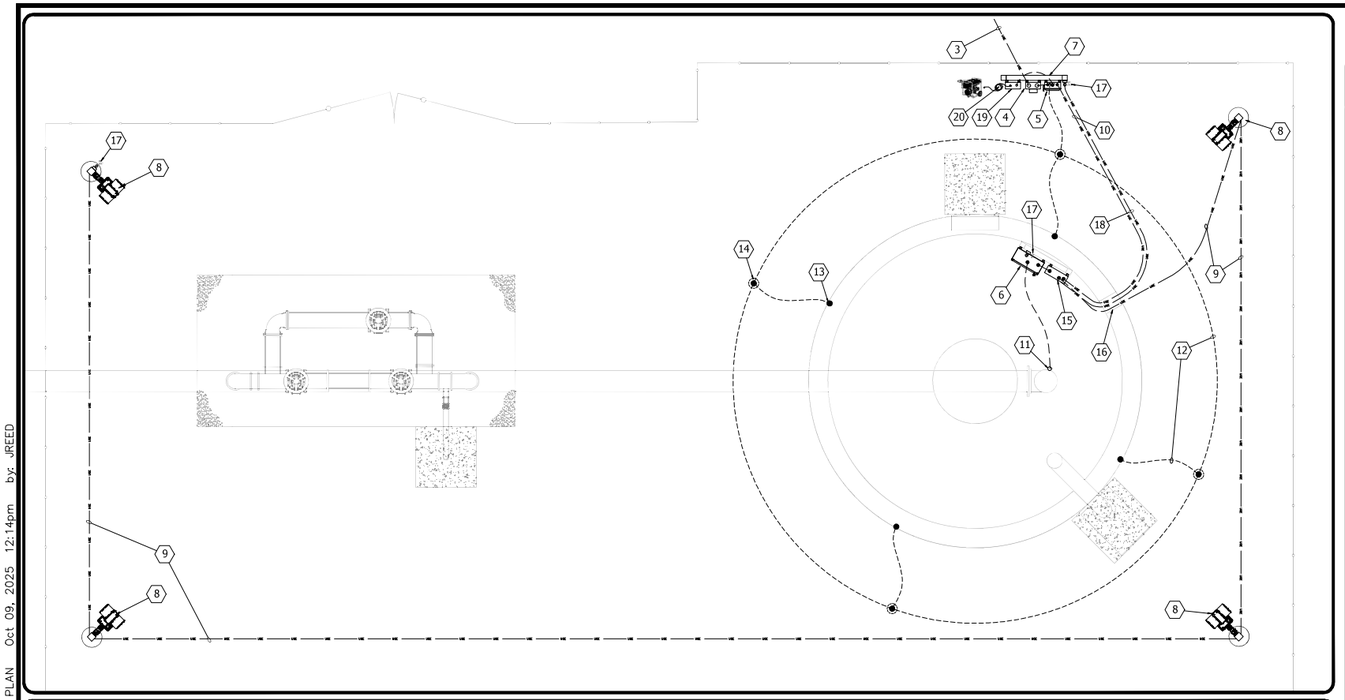
ELECTRICAL SYMBOLS AND ABBREVIATIONS

AARON L. CROW LICENSED No. 100874 STATE OF FLORIDA PROFESSIONAL ENGINEER

ENGINEER: AARON L CROW
REG. NO.: 100874

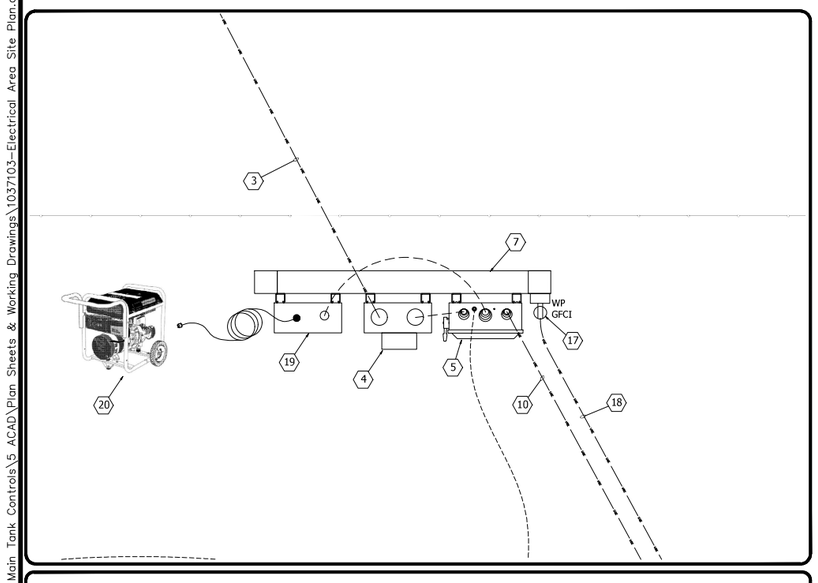
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SCALE: 1" = 5'

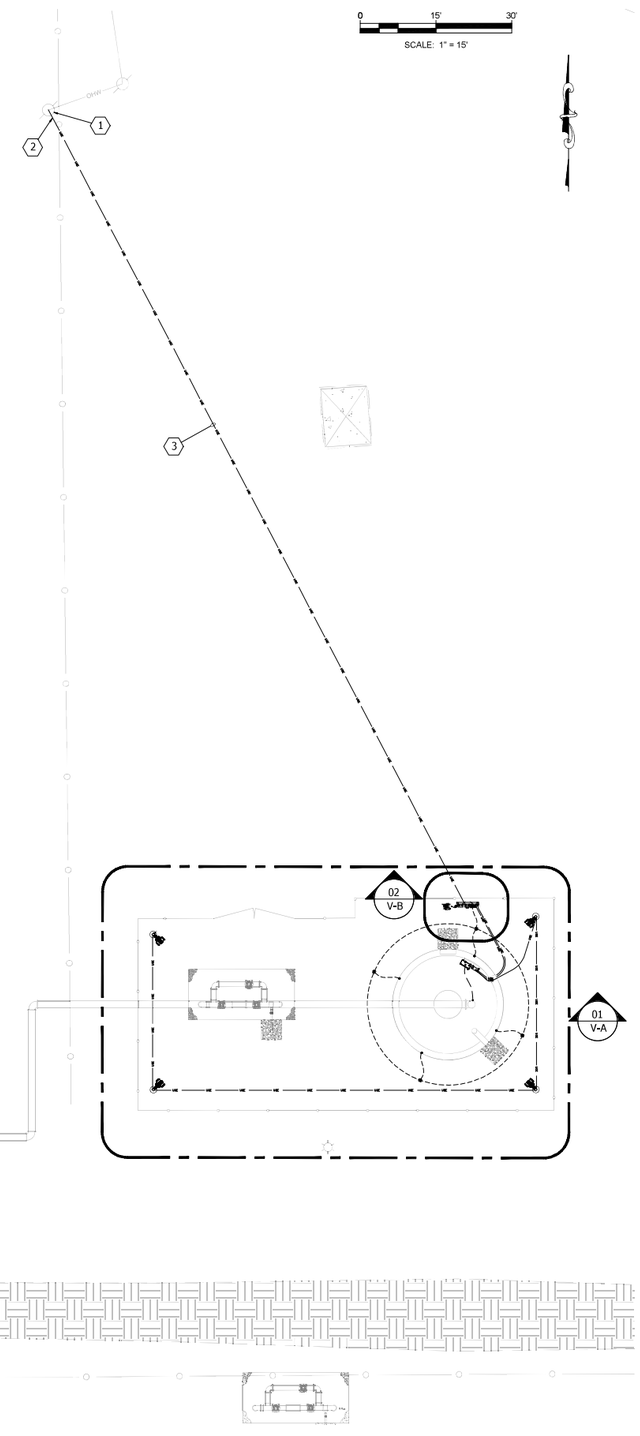
VIEW 'V-A'



VIEW 'V-B'

ELECTRICAL KEYED NOTES:

1. EXISTING OVERHEAD UTILITY POLE - PRECO. CALL 863-773-4116 FOR COORDINATION.
2. NEW 3" PVC RISER. LEAVE 6' ABOVE GRADE NEXT TO EXISTING POLE.
3. UNDERGROUND CONDUIT/CABLE TO RISER AT EXISTING POLE, SEE ONE-LINE.
4. NEW UTILITY METER. BASE BY CONTRACTOR, METER TO BE COORDINATED AND INSTALLED BY UTILITY.
5. NEW STAINLESS STEEL 100A SERVICE ENTRANCE DISCONNECT.
6. NEW TANK LEVEL CONTROL PANEL, SEE DETAILS.
7. 3" SQUARE TUBE ALUMINUM EQUIPMENT RACK. ALL SEAMS WELDED WITH NO OPENINGS THAT WOULD ALLOW WATER PENETRATION.
8. LED SITE LIGHT (F1) - 20' POLE. SEE DETAILS AND ONE-LINE.
9. UNDERGROUND CONDUIT/WIRE FOR SITE LIGHTING. 2 - #12 CU, 1 - #12 CU GND, 1" C.
10. UNDERGROUND CONDUIT FOR 100A POWER TO TANK PANELBOARD. SEE ONE-LINE.
11. PRESSURE TRANSMITTER. SEE DETAILS.
12. BURIED GROUND CABLE IN 1" PVC. SEE DETAILS.
13. BONDED GROUND CONNECTION TO TANK BASE (TYPICAL). SEE DETAILS.
14. WELDED CONNECTION TO 10' GROUND ROD (TYPICAL). SEE DETAILS.
15. 100A 120V, 1PH LIGHTING PANEL. PROVIDED BY TANK MANUFACTURER.
16. TANK ELECTRICAL ACCESS PORT.
17. PROVIDE 20A DUPLEX GFI RECEPTACLE IN WEATHERPROOF BOX.
18. 2 - #12 CU, 1 - #12 CU GND; 3/4" C.
19. MANUAL TRANSFER SWITCH. SEE ONE-LINE.
20. MOBILE GENERATOR BY OWNER. CONTRACTOR TO PROVIDE PLUG CABLE AND MANUAL TRANSFER SWITCH. SEE ONE-LINE.



P:\400-70713 Wauchula Water Main Tank Controls\5 ACAD\Plan Sheets & Working Drawings\10371103-Electrical Area Site Plan.dwg AREA SITE PLAN Oct 09, 2025 12:14pm by: JREED

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SUITE #110
LAKELAND, FL 33801-4611
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CITY OF WAUCHULA
SW AREA ELEVATED TOWER
WAUCHULA, FLORIDA
AREA SITE PLAN

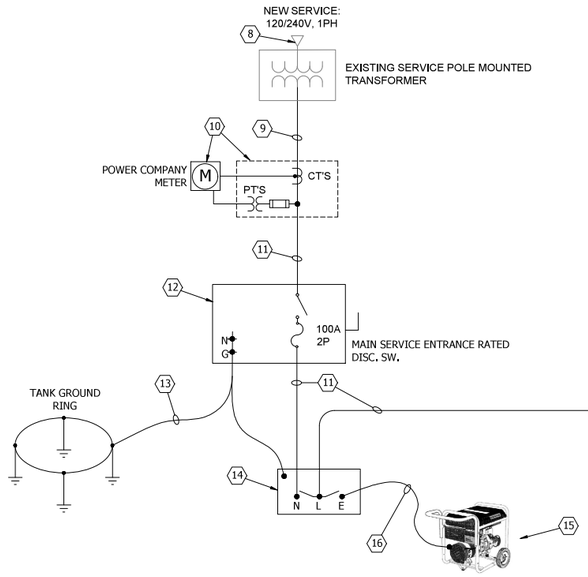
AARON L CROW LICENSE No. 100874 STATE OF FLORIDA PROFESSIONAL ENGINEER

ENGINEER: AARON L CROW
REG. NO.: 100874

PROJECT NUMBER: 10371.03

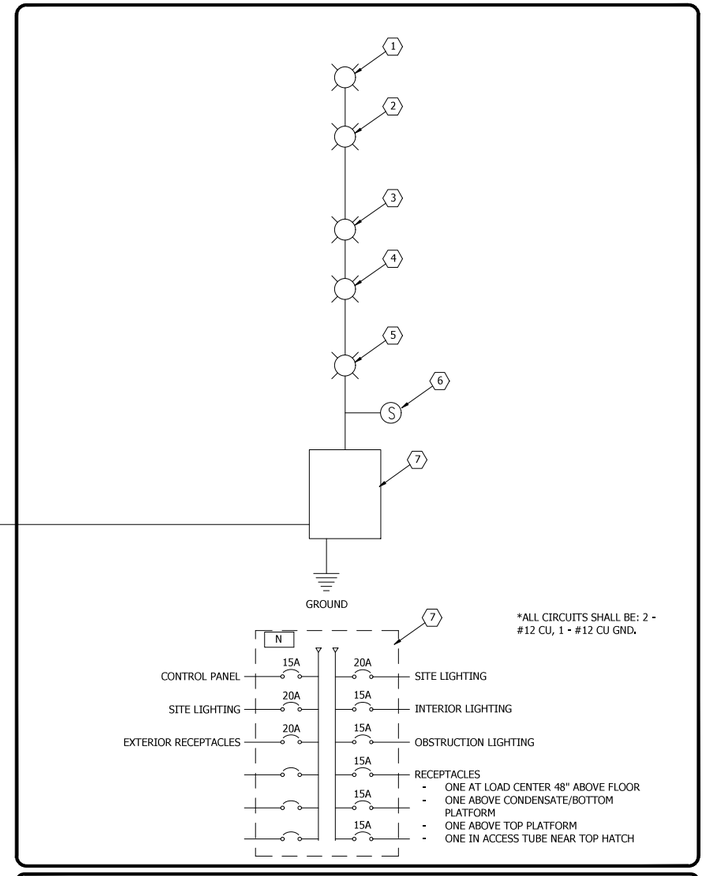
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P:\400-70713 Wauchula Water Main Tank Controls\5 ACAD\Plan Sheets & Working Drawings\1037103-Elevated Tank Electrical One-Line.dwg ELEVATED TANK ELECTRICAL ONE-LINE Oct 09, 2025 12:14pm by: JREED



ELECTRICAL KEYED NOTES:

1. FIXTURES IN ACCESS TUBE (2 REQUIRED) ONE AT TOP AND ONE AT MID-HEIGHT.
2. FIXTURE LOCATED AT TOP OF PLATFORM IN SUPPORT SHAFT.
3. FIXTURES LOCATED AT APPROXIMATELY 20'-0" CENTERS IN SUPPORT SHAFT.
4. FIXTURE LOCATED ABOVE CONDENSATE/BOTTOM PLATFORM.
5. FIXTURES LOCATED IN BELL APPROXIMATELY 10'-0" ABOVE FLOOR (3 REQUIRED).
6. SWITCH FOR INTERIOR LIGHTING LOCATED NEAR ENTRY DOOR.
7. LIGHTING PANEL PROVIDED BY MANUFACTURER. 100A, 20 CIRCUIT.
8. EXISTING UTILITY POLE. COORDINATE WITH PRECO.
9. 120/240V POWER FEED FROM UTILITY POLE, 3 - #2 CU, 1 - #4 CU GND, 3" C, EXTEND PVC CONDUIT UP POLE 6' AND LEAVE ENOUGH SPARE LENGTH FOR UTILITY TO MAKE CONNECTION.
10. PROVIDE 100A UTILITY METER BOX, STAINLESS STEEL, READY FOR UTILITY TO INSTALL METER.
11. 3 - #3 CU, 1 - #6 CU GND, 1-1/2" C.
12. 100A SERVICE ENTRANCE RATED FUSED DISCONNECT. STAINLESS STEEL.
13. #4/0 BARE COPPER GROUND WIRE, 1" C., BONDED TO 10' , 7/8" GROUND ROD. SEE DETAILS.
14. MANUAL TRANSFER SWITCH (MTS). 120/240V, 1Ø. SIMILAR TO RONK 7103 OR EQUAL.
15. CUSTOMER SUPPLIED MOBILE GENERATOR. GENERATOR IS A DEVILBISS POWER BACK MODEL GT5250.
16. SUPPLY 15' TERMINATED ON EMERGENCY LUGS OF MTS. CORD SHALL BE AVAILABLE TO PLUG INTO MOBILE GENERATOR 240V RECEPTACLE. CORD SHALL BE MINIMUM 30A RATED.



TANK INTERIOR ELECTRICAL ONE-LINE (*LIGHTING AND LIGHTING PANEL PROVIDED BY TANK MANUFACTURER)

LIGHT FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	CATALOG #	DESCRIPTION	WATTS	LAMP	MOUNT	VOLTAGE	REMARKS
F1	LITHONIA	KAD-150S-R2-120-RPD-08	LED CONTOUR SOFT SQUARE AREA LIGHT, 20 LEDS, 530mA, 3000K, TYPE II DISTRIBUTION, 120V, NATURAL ALUMINUM	150	LED 4K LUMENS	SURFACE	120V	20' POLE MOUNT

ELECTRICAL ONE-LINE

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SW AREA ELEVATED TOWER
WAUCHULA, FLORIDA
ELEVATED TANK ELECTRICAL ONE-LINE

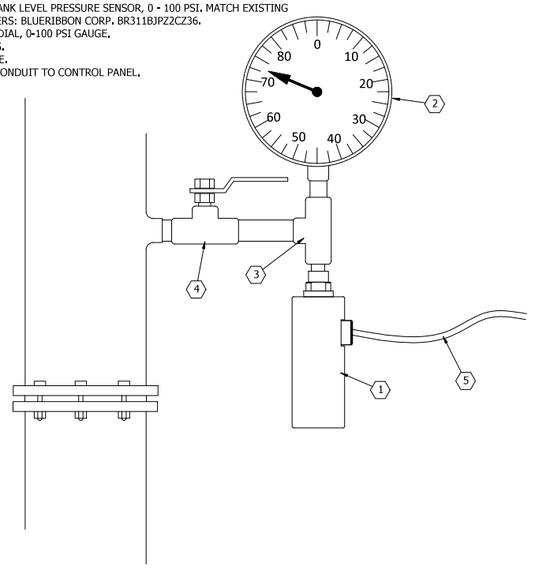
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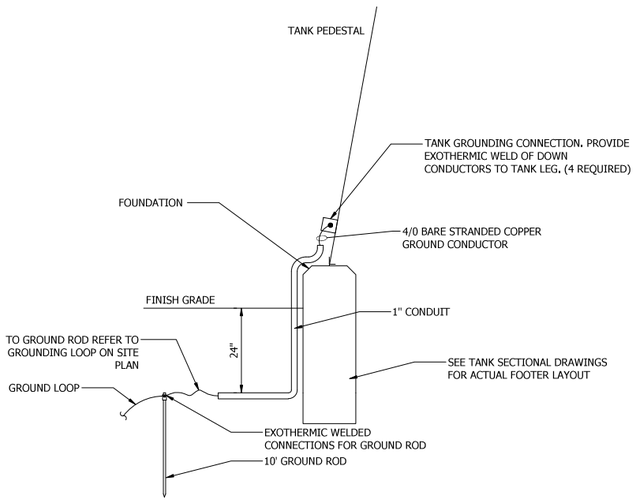
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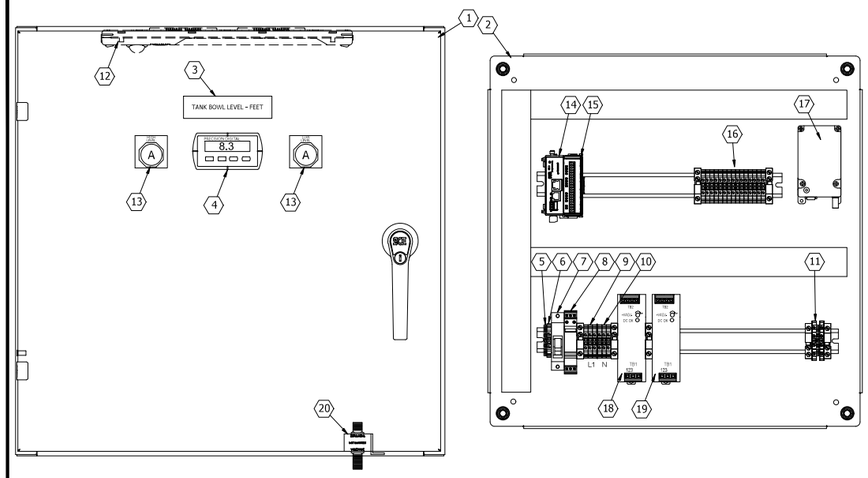
1. LOOP POWERED TANK LEVEL PRESSURE SENSOR, 0 - 100 PSI. MATCH EXISTING TANK TRANSMITTERS: BLUERIBBON CORP. BR311BJPZ2CZ36.
2. LIQUID FILLED 3" DIAL, 0-100 PSI GAUGE.
3. SS 1/2" "T" FITTING.
4. SS 1/2" BALL VALVE.
5. #16 TSP, IN 3/4" CONDUIT TO CONTROL PANEL.



PRESSURE TRANSMITTER/GAUGE INSTALL DETAIL
NOT TO SCALE



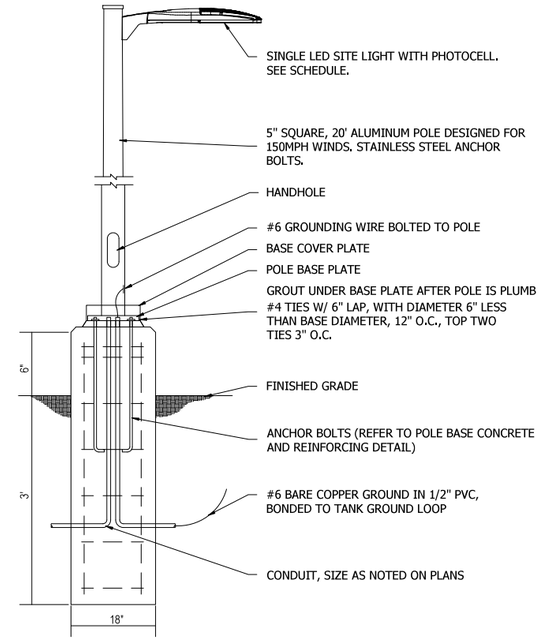
TANK GROUND DETAIL



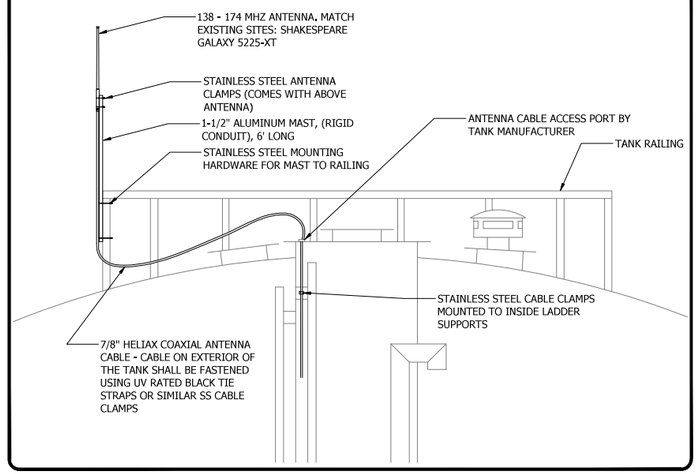
1. NEMA4X 24" X 24" X 8" STAINLESS STEEL ENCLOSURE.
2. 24" X 24" INTERIOR EQUIPMENT PANEL.
3. PHENOLIC NAMEPLATE, WHITE/OFF WHITE BACKGROUND WITH BLACK LETTERING.
4. LEVEL DISPLAY, CALIBRATED FOR BOWL HEIGHT IN FEET. CONFIGURE FOR HIGH AND LOW ALARM.
5. 120V POWER GROUND BLOCK.
6. 120V POWER NEUTRAL BLOCK.
7. 120V POWER 15A CIRCUIT BREAKER.
8. 120V SURGE PROTECTION.
9. 120V LINE POWER DISTRIBUTION TERMINAL BLOCKS.
10. 120V NEUTRAL DISTRIBUTION TERMINAL BLOCKS.
11. ANALOG FIELD TERMINAL BLOCKS. PROVIDE ANALOG SURGE PROTECTION FOR PRESSURE SENSOR (MAY BE TERMINAL BLOCK STYLE SIMILAR TO PHOENIX CONTACT).
12. LED ENCLOSURE LIGHT.
13. 120V HIGH AND LOW ALARM PILOT LIGHTS.
14. AUTOMATIONDIRECT CLICKPLUS PLC MODULE. C2-03CPU.
15. AUTOMATIONDIRECT CLICKPLUS IO MODULE. C2-08D2-6C.
16. FIELD AND MISCELLANEOUS TERMINAL BLOCKS.
17. MAXON LICENSE-FREE 142 - 174MHZ RADIO. SD-171EL, (MATCH EXISTING SYSTEM)
18. 12VDC MEANWELL POWER SUPPLY. EDR-120-12.
19. 24VDC MEANWELL POWER SUPPLY. EDR-120-24.
20. POLYPHASE LIGHTNING ARRESTOR.

TANK CONTROL PANEL DETAIL

ELECTRICAL DETAILS



SITE LIGHTING DETAIL



TOP OF TANK ANTENNA MOUNT DETAIL
NOT TO SCALE

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PROJECT NUMBER: 10371.03

SHEET NUMBER: E-04