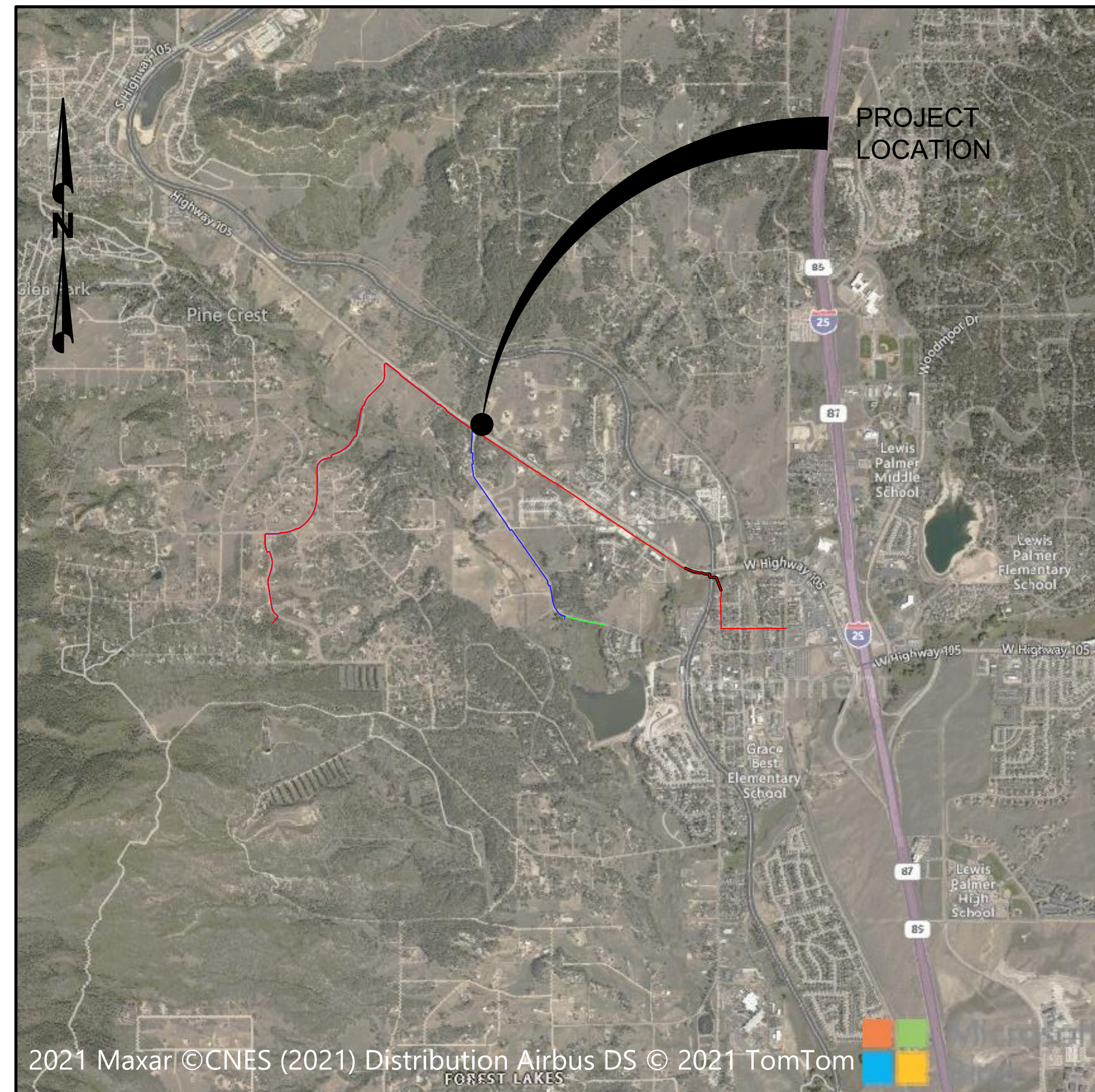
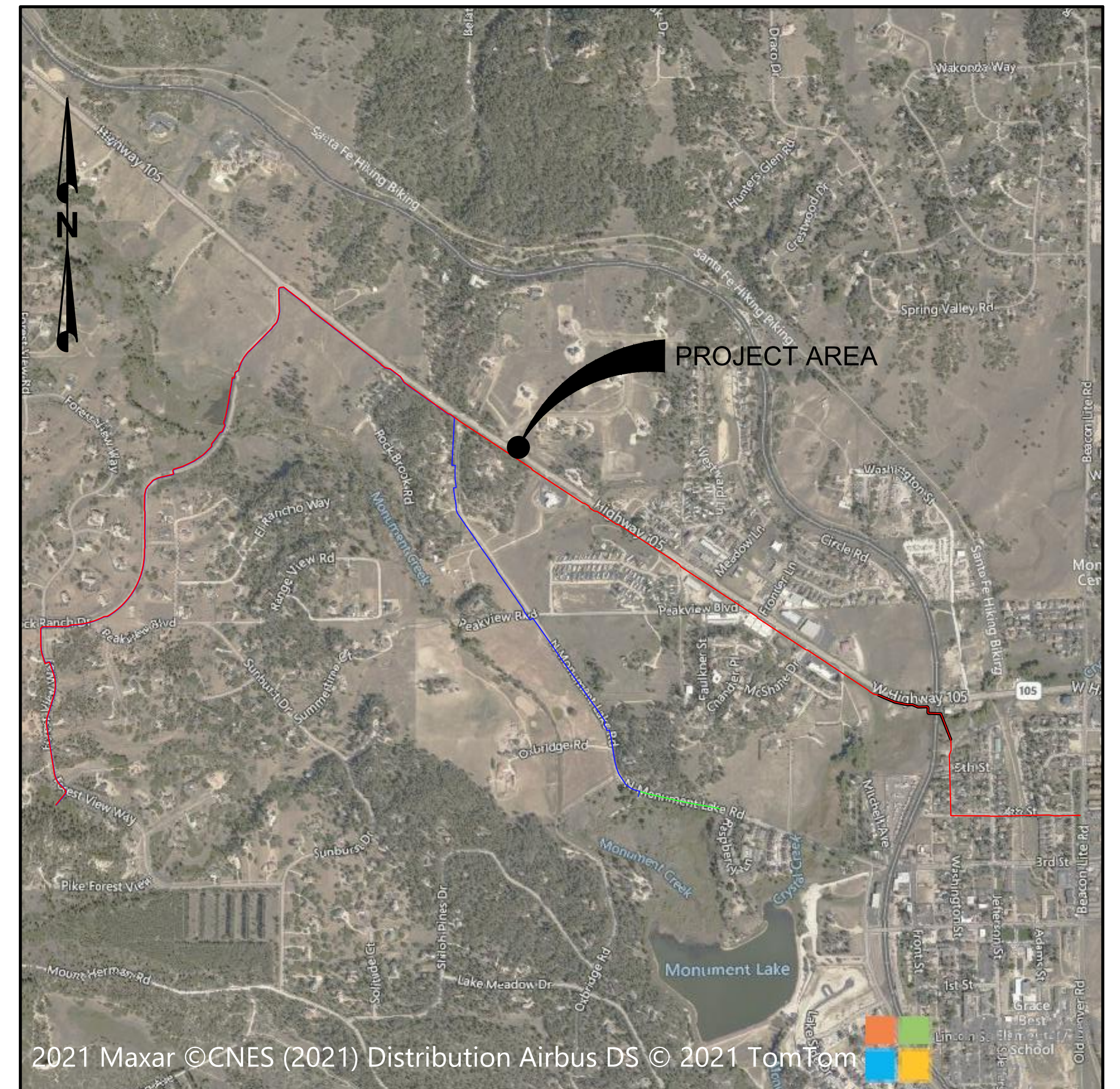


# MONUMENT WATERLINE & STORAGE TANK

## CONSTRUCTION PLANS MONUMENT, CO



PROJECT LOCATION MAP



VICINITY MAP

SHEET INDEX	
NO.	TITLE
1	COVER SHEET
2	LEGEND, NOTES & ABBREVIATIONS
3	PIPELINE ALIGNMENTS KEY MAP
4	PIPELINE ALIGNMENTS STA 0+00 TO STA 12+00
5	PIPELINE ALIGNMENTS STA 12+00 TO STA 24+00
6	PIPELINE ALIGNMENTS STA 24+00 TO STA 36+00
7	PIPELINE ALIGNMENTS STA 36+00 TO STA 48+00
8	PIPELINE ALIGNMENTS STA 48+00 TO STA 60+00
9	PIPELINE ALIGNMENTS STA 60+00 TO STA 72+00
10	PIPELINE ALIGNMENTS STA 72+00 TO STA 84+00
11	PIPELINE ALIGNMENTS STA 84+00 TO STA 96+00
12	PIPELINE ALIGNMENTS STA 96+00 TO STA 108+00
13	PIPELINE ALIGNMENTS STA 108+00 TO STA 120+00
14	PIPELINE ALIGNMENTS STA 120+00 TO STA 132+00
15	PIPELINE ALIGNMENTS STA 132+00 TO STA 144+00
16	PIPELINE ALIGNMENTS STA 144+00 TO STA 156+00
17	PIPELINE ALIGNMENTS STA 156+00 TO STA 167+68
18	PIPELINE ALIGNMENTS STA 200+00 TO STA 212+00
19	PIPELINE ALIGNMENTS STA 212+00 TO STA 224+00
20	PIPELINE ALIGNMENTS STA 224+00 TO STA 236+00
21	PIPELINE ALIGNMENTS STA 236+00 TO STA 244+00
22	PIPELINE ALIGNMENTS STA 300+00 TO STA 308+14
23	DETAILS - 1
24	DETAILS - 2

FA PROJECT NO. 04-20-0153  
JANUARY, 2022

DESIGN ENGINEER'S STATEMENT:

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

[NAME, P.E. #] DATE

OWNER/DEVELOPER'S STATEMENT:

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

[NAME, TITLE]  
[BUSINESS NAME]  
[ADDRESS] DATE

fix overlap.

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. DATE  
COUNTY ENGINEER / ECM ADMINISTRATOR

**FORSGREN**  
Associates Inc.

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



Please add PCD File No. PPR-21-30

# LEGEND

# CIVIL ABBREVIATIONS

## ANNOTATION

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	—□—
CHAIN LINK FENCE	—X—
BARBED WIRE FENCE	—X—
CONTOUR LINE	4250 [EL=4354.66]
SPOT ELEVATION	[EL=4354.66]
BANK SLOPES	
CANAL	
OPEN DITCH	---
UNDERGROUND ELECTRIC	--- UE ---
OVERHEAD ELECTRIC	
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	--- NG ---
GAS VALVE	--- X ---
GAS METER	(G)
IRRIGATION LINE	--- IRR ---
SANITARY SEWER LINE	--- SS ---
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	--- SW ---
SECONDARY WATER VALVE	--- X ---
SECONDARY WATER VAULT	(W)
STORM DRAIN LINE	--- SD ---
STORM DRAIN CATCH BASIN	(C)
STORM DRAIN INLET(S)	(I)
STORM DRAIN COMBO BOX	(O)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(C)
STORM DRAIN VAULT	(V)
CULVERT	(B)
TELEPHONE CABLE	--- COMM ---
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(P)
WATER LINE	--- PW ---
FIRE HYDRANT	(H)
FIRE RISER	(R)
WATER VALVE	--- X ---
WATER AIR RELEASE VALVE	(A)
WATER METER	(M)
UTILITY POLE & ANCHOR	(U) OHE →
POWER POLE	(P)
STREET LIGHT	(L)
LIGHT	(L)
ASPHALT PAVING	=====
CURB & GUTTER	=====
SIDEWALK	=====
RAILROAD TRACKS	=====
GUARD RAIL	=====
SIGN	(S)
STRUCTURE	(S)
LANDSCAPING (TREES ETC.)	(T) (S)
SECTION CORNER	12 11 4 3
MONUMENT	(M)
BENCH MARK	(B)
SURVEY CONTROL POINT	(CP) CP800

REVISION TRIANGLE	← REVISION NO. 1
DETAIL CALLOUT	1 ← DETAIL # C-001 ← SHEET NO.
KEYNOTE CALLOUT	1 ← KEYNOTE REFERENCE
PIPE CALLOUT	SS 18" PVC ← SYSTEM ← MATERIAL ← SIZE
SECTION CALLOUT	A ← DESIGNATION G-001 ← SHEET NO. 4' MANHOLE ← DETAIL NAME/DESCRIPTION SCALE: 1/2"=1'-0" 11 22 33
DETAIL NAME	1 ← DETAIL #
SECTION NAME	TYPICAL ROAD ← SECTION DESCRIPTION SCALE: 1"=1"
VIEW NAME	PLAN VIEW ← VIEW DESCRIPTION SCALE: 1"=1"
GENERAL CALLOUT	← GENERAL NOTE
PROPOSED CALLOUT	← CONSTRUCTION NOTE

ALT	ALTERNATE
APPROX	APPROXIMATELY
BDRY	BOUNDARY
BKFL	BACKFILL
BM	BENCH MARK
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CALC	CALCULATED
CB	CATCH BASIN
CCW	COUNTERCLOCKWISE
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CL or CL	CENTERLINE/CONTROL LINE
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CU	CUBIC
CW	CLOCKWISE
°	DEGREE
DET	DETAIL
Ø, DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EXC	EXCAVATION
EQUIP	EQUIPMENT
EXIST	EXISTING
FD	FOUND
FG	FINISH GRADE
FL OR F L	FLOW LINE
FPS	FEET PER SECOND
FT	FEET
GALV	GALVANIZED
GRD	GROUND

HDWL	HEADWALL
HORIZ	HORIZONTAL
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
L	LENGTH
LF	LINEAR FEET
LIN	LINEAR/LINEAL
LT	LEFT
MATL	MATERIAL
MAX	MAXIMUM
MKR	MARKER
MH	MANHOLE
MI	MILE
MISC	MISCELLANEOUS
MON	MONUMENT
N	NORTH
N/A	NO ACCESS or NOT APPLICABLE
NTS	NOT TO SCALE
No	NUMBER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
O-O	OUTSIDE TO OUTSIDE
ORIG	ORIGINAL
PVMT	PAVEMENT
PC	POINT OF CURVATURE
PE	POLYETHELENE
PERF	PERFORATED
PROJ	PROJECT
PROP	PROPERTY
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY

RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
REV	REVISION
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	SANITARY SEWER
ST	STREET
STL	STEEL
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TEL	TELEPHONE/TELEGRAM
TP	TELEPHONE POLE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODES
UG	UNDERGROUND
UT	UNDERGROUND TELEPHONE
VB	VALVE BOX
VERT	VERTICAL
VOL	VOLUME
W	WEST/WATER
WM	WATER METER
WV	WATER VALVE
XING	CROSSING
W/	WITH
W/O	WITHOUT
△	DELTA
%	PERCENT

## STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\General\County Submittals\ENGINEERING\PIPELINE\G-02 - LEGEND NOTES AND ABBREV.dwg - 1/17/2022 5:42 PM

NO.	REVISIONS	BY	DATE

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

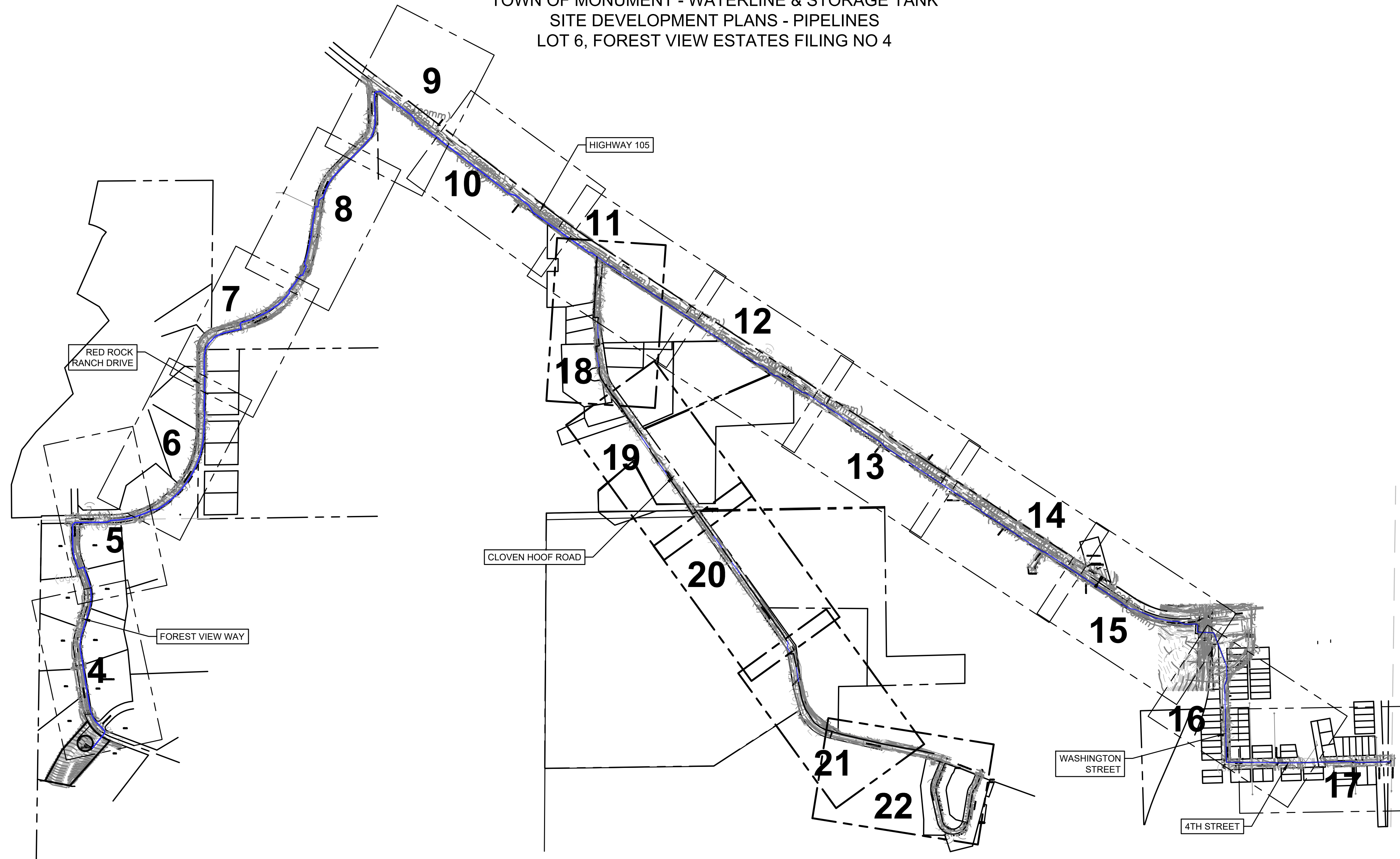


**FORSGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644

MONUMENT WATERLINE & STORAGE TANK  
**CONSTRUCTION PLANS**  
**LEGEND, NOTES AND ABBREVIATIONS**

PROJECT NO:	<b>04-20-0153</b>
SHEET NO:	<b>G-02</b>
DATE:	JAN, 2022
PAGE NO:	2 OF 24

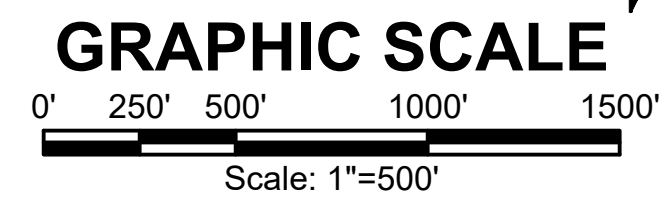
TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



SURVEY CONTROL DATA

POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
150	1465758.075	3172710.430	7069.86 (NAVD 88)	3.25" ALUMINUM CAP "CDOT MP 7.4 #542"
151	1462473.388	3171175.657	7133.00 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
152	1462480.295	3175247.677	6947.57 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
153	1460915.673	3176013.847	6936.42 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
154	1460518.879	3180552.386	7018.01 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
115	1463118.253	3176474.552	6999.48 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."
110	1461819.218	3178628.362	6977.98 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."

COORDINATE SYSTEM: NAD83 (2011)  
 STATE PLANE ZONE: COLORADO CENTRAL ZONE 0502  
 UNITS: US SURVEY FEET  
 GEOD MODEL: GEOID18  
 PROJECT COORDINATES SHOWN HEREON ARE MODIFIED STATE PLANE GROUND COORDINATES  
 GRID TO GROUND COMBINED SCALE FACTOR: 1.0004129397  
 GROUND TO GRID COMBINED SCALE FACTOR: 0.9995872307  
 FALSE NORTHING: 0.0  
 FALSE EASTING: 0.0



Staff recommends degree bends be labeled on the plan sheets.

Please provide waterline profiles on each sheet.  
 Please also provide line curve data on sheets.

Please add to the general notes: "A work in the ROW permit will be required for all construction work within the ROW."

Please add the following note: "Construction easements will be required if encroaching into private property during the construction process."

Please call out all road crossings in the general notes or notes on sheets that contain crossings.

Please show any areas on sheets that will need temporary construction easements.

Please provide a note that states specific instructions for repairing asphalt at the cuts in Red Rock Ranch Drive. Please also list all stations where these cuts are located.

GENERAL CONSTRUCTION NOTES:

- INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEDED.

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\ENGINEERING DRAWINGS\PIPELINE\OVERALL PLAN VIEW.dwg - 1/7/2022 5:38 PM

DRAWN _____ S. CALE	
DESIGNED _____ J. ADAMS	
APPROVED _____ J. ADAMS	
QA _____ W. KOGER	
NO.	REVISIONS BY DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



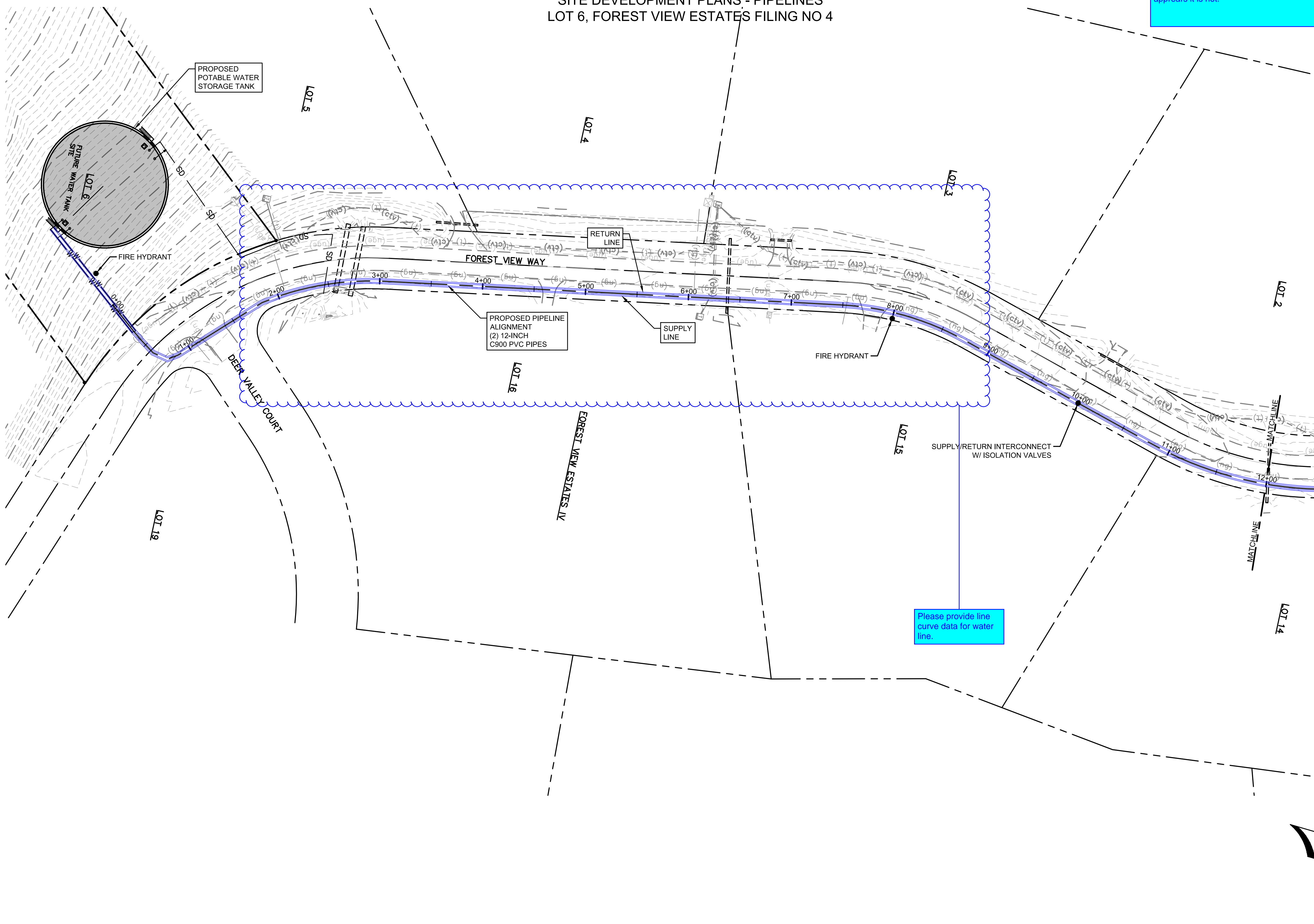
**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
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**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS KEY MAP**

PROJECT NO:	<b>04-20-0153</b>
SHEET NO:	<b>3</b>
DATE:	JAN, 2022
PAGE NO:	3 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

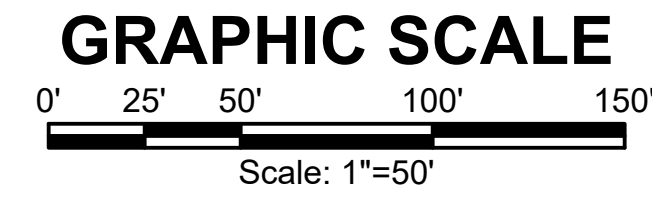
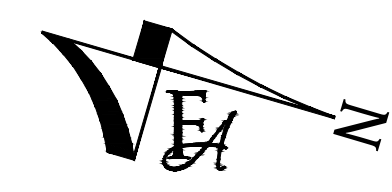
Please make sure the asphalt linestyle is shown on the plan sheet since it appears it is not.



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE -4250
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

Please provide line curve data for water line.



P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\ENGINEERING DRAWINGS\PIPELINE\OVERALL PLAN VIEW.dwg - 1/7/2022 5:37 PM

NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

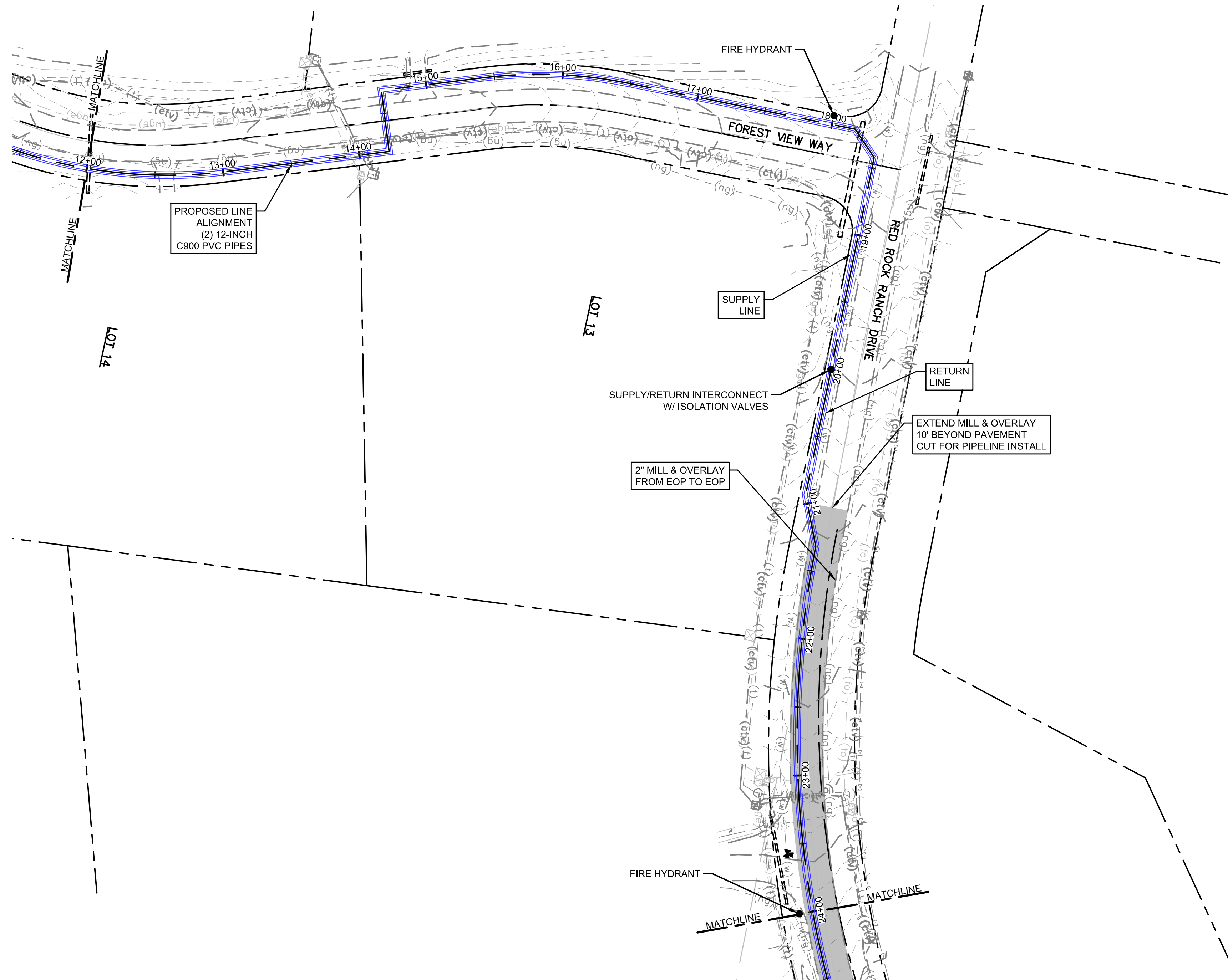


**FORSGREN**  
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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 0+00 TO STA 12+00

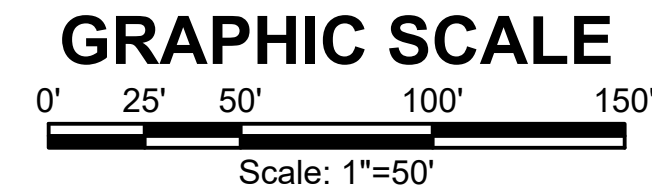
PROJECT NO:	04-20-0153
SHEET NO:	4
DATE:	JAN, 2022
PAGE NO:	4 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

MATCH LINE	---
CENTER LINE	====
CONTROL LINE	=====
PROPERTY OR R/W LINE	-----
EASEMENT LINE	-----
STREET MONUMENT LINE	-----
WIRE FENCE	---o---
CHAIN LINK FENCE	-----
BARBED WIRE FENCE	-----X-----
CONTOUR LINE	-----4250
UNDERGROUND ELECTRIC	---(uge)---
OVERHEAD ELECTRIC	---(ohe)---
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(M)
GAS LINE	---(g)---
GAS VALVE	(V)
GAS METER	(M)
IRRIGATION LINE	---IRR---
SANITARY SEWER LINE	---SS---
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	---SW---
SECONDARY WATER VALVE	(V)
SECONDARY WATER VAULT	(W)
STORM DRAIN LINE	---SD---
STORM DRAIN CATCH BASIN	(CB)
STORM DRAIN INLET(S)	(I)
STORM DRAIN COMBO BOX	(C)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(C)
STORM DRAIN VAULT	(V)
CULVERT	(C)
TELEPHONE CABLE	---COMM---
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(P)
WATER LINE	---PW---
FIRE HYDRANT	(H)
FIRE RISER	(R)
WATER VALVE	(V)
WATER AIR RELEASE VALVE	(A)
WATER METER	(M)
UTILITY POLE & ANCHOR	(U)
POWER POLE	(P)
STREET LIGHT	(L)
LIGHT	(L)
ASPHALT PAVING	=====
CURB & GUTTER	=====
SIDEWALK	=====
RAILROAD TRACKS	=====
GUARD RAIL	=====
SIGN	(S)
STRUCTURE	(S)
LANDSCAPING (TREES ETC.)	(T)
SECTION CORNER	(12 11)
MONUMENT	(M)
BENCH MARK	(B)
SURVEY CONTROL POINT	(CP800)



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NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER



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



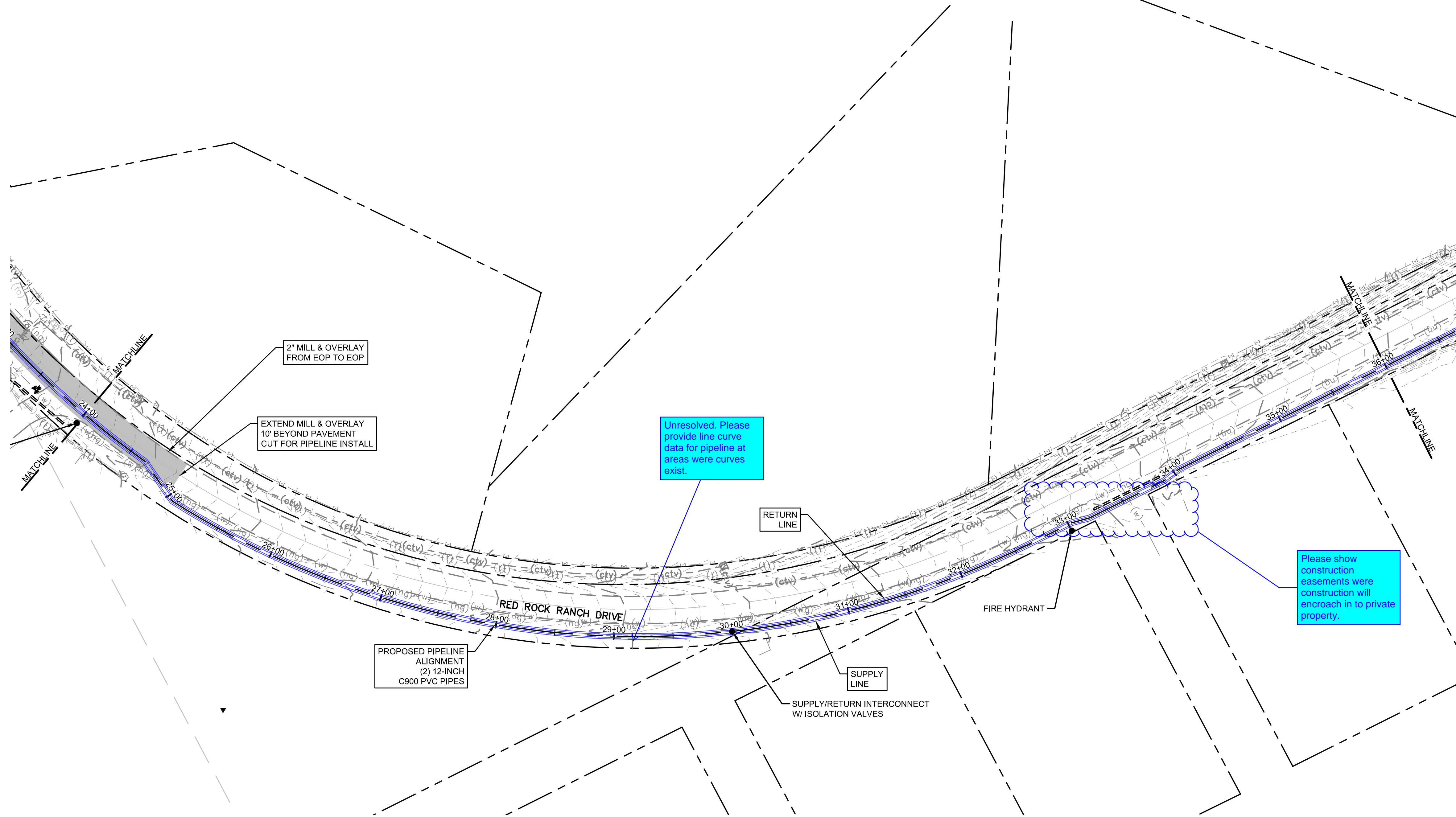
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 12+00 TO STA 24+00

PROJECT NO:	04-20-0153
SHEET NO:	5
DATE:	JAN, 2022
PAGE NO:	5 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

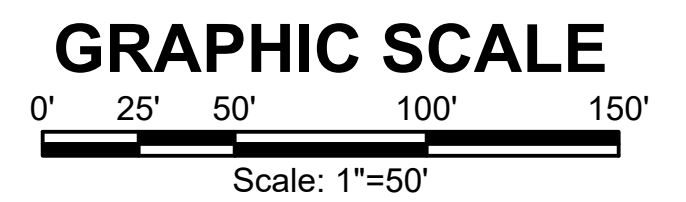
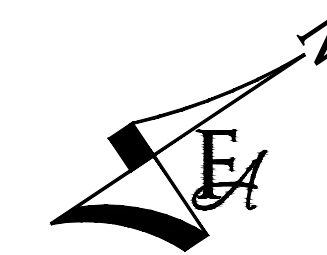
LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



Unresolved. Please provide line curve data for pipeline at areas where curves exist.

Please show construction easements where construction will encroach in to private property.



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

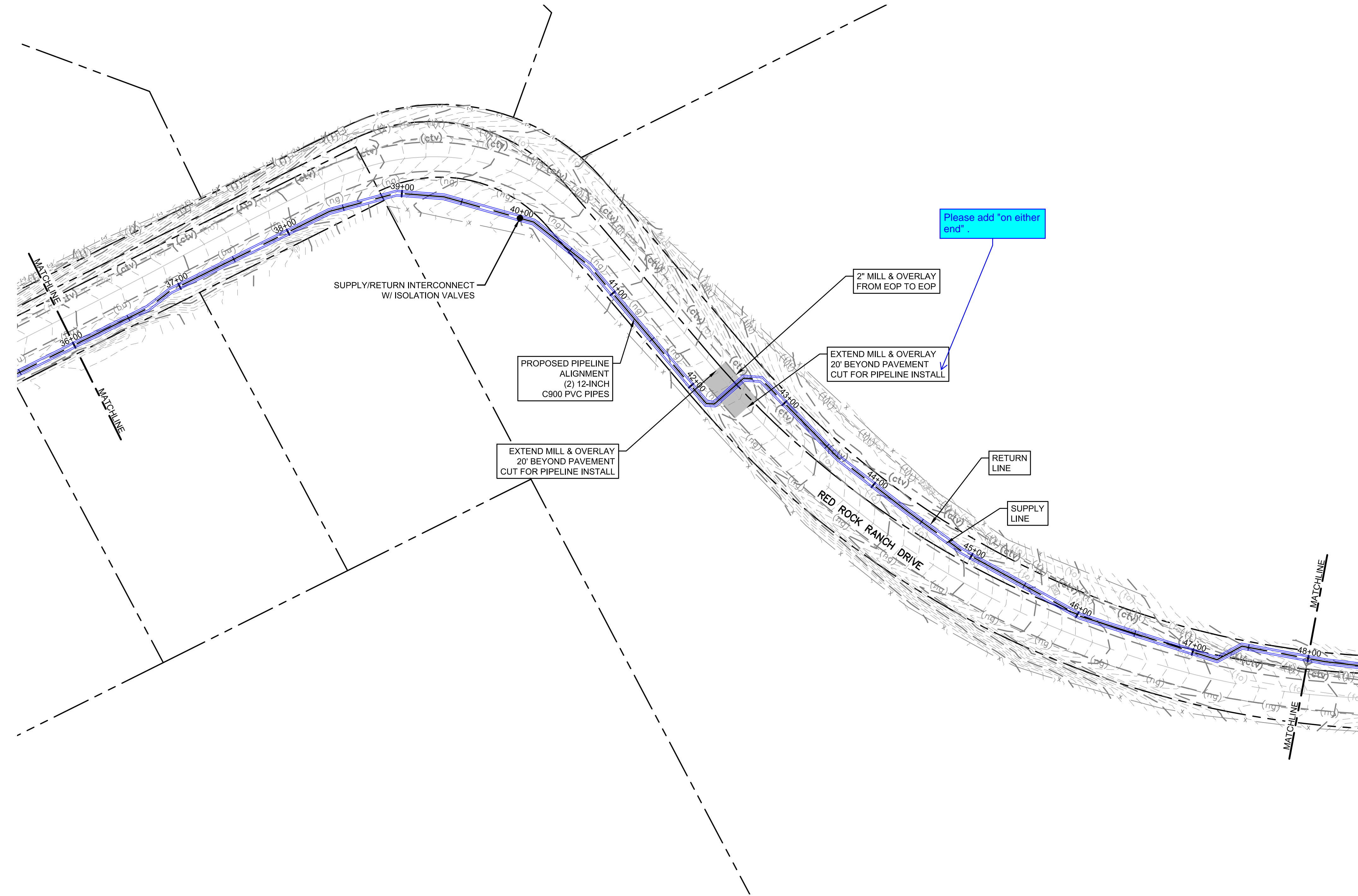


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*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 24+00 TO STA 36+00

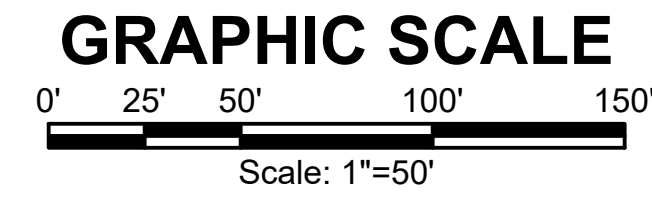
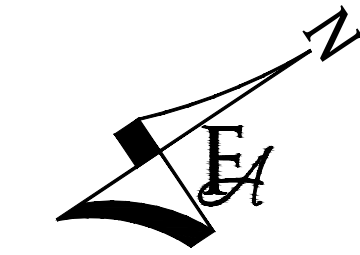
PROJECT NO:	04-20-0153
SHEET NO:	6
DATE:	JAN, 2022
PAGE NO:	6 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

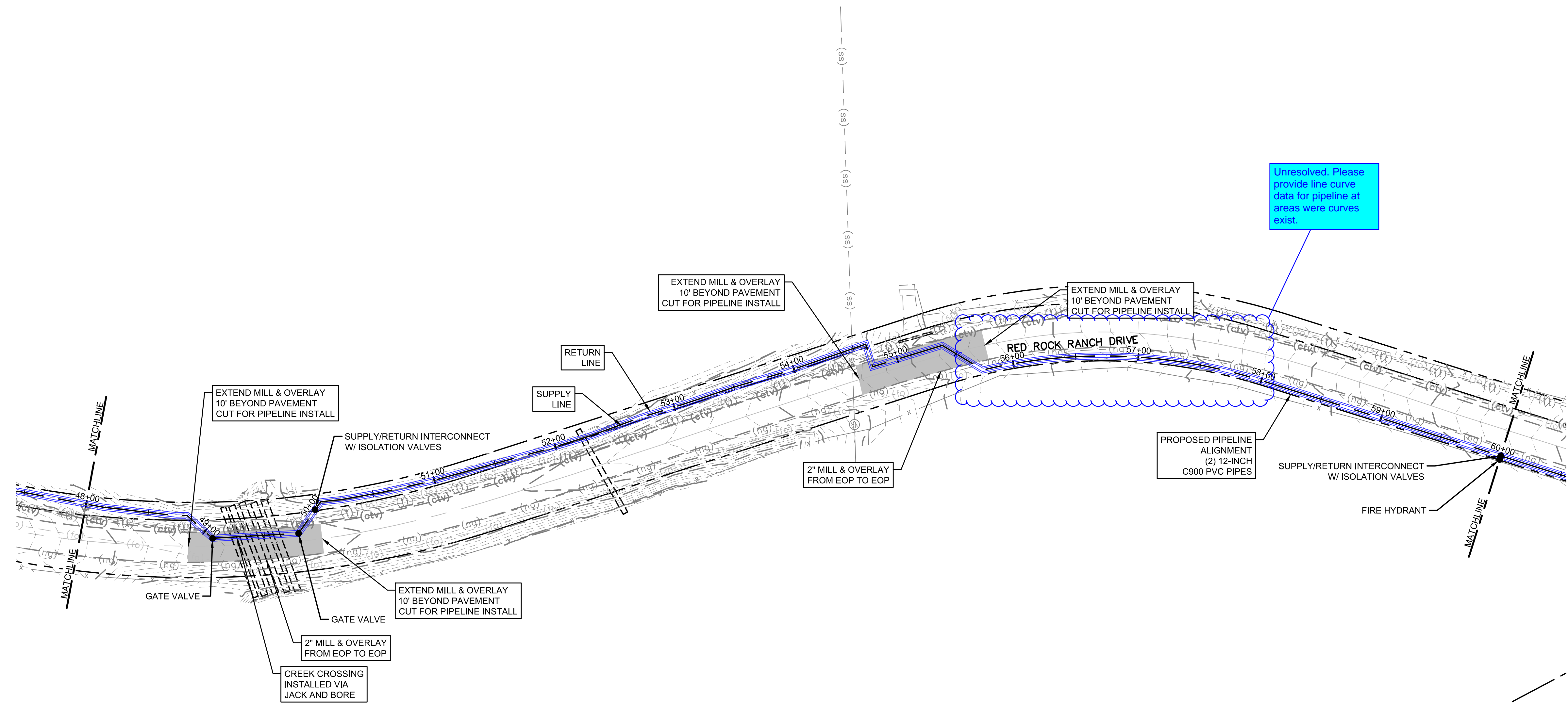


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 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 36+00 TO STA 48+00

PROJECT NO:	04-20-0153
SHEET NO:	7
DATE:	JAN, 2022
PAGE NO:	7 OF 24

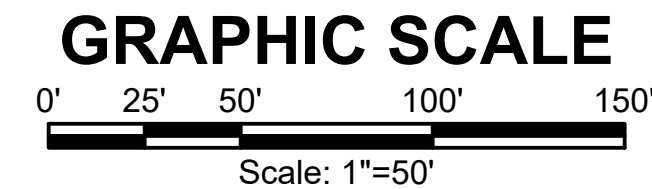
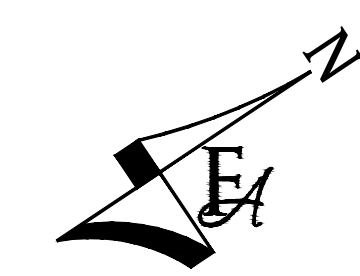
TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



Unresolved. Please provide line curve data for pipeline at areas where curves exist.

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
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- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
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- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

DRAWN \_\_\_\_\_ S. CALE  
 DESIGNED \_\_\_\_\_ J. ADAMS  
 APPROVED \_\_\_\_\_ J. ADAMS  
 QA \_\_\_\_\_ W. KOGER



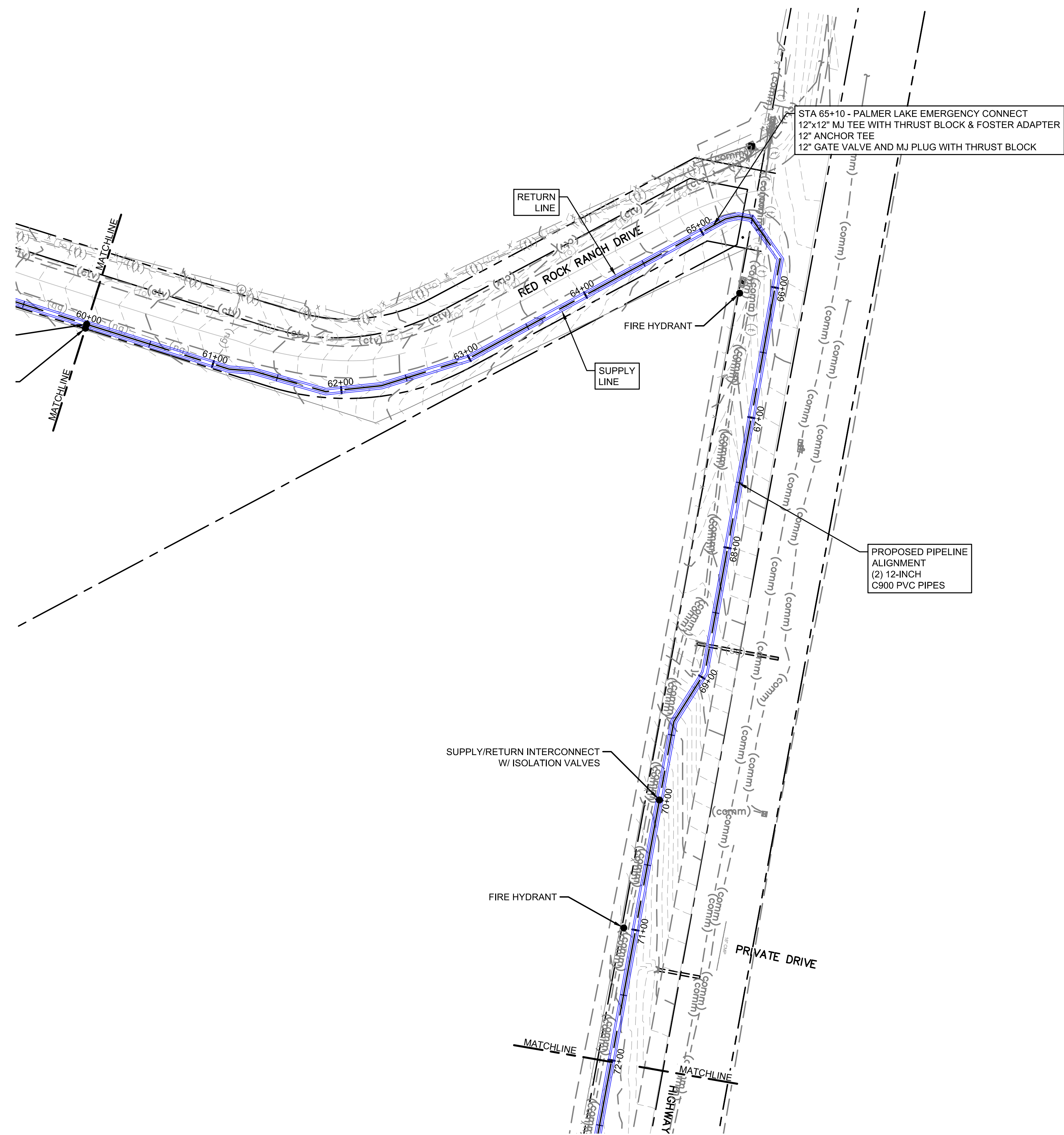
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*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 48+00 TO STA 60+00

PROJECT NO: **04-20-0153**  
 SHEET NO: **8**  
 DATE: JAN, 2022  
 PAGE NO: 8 OF 24

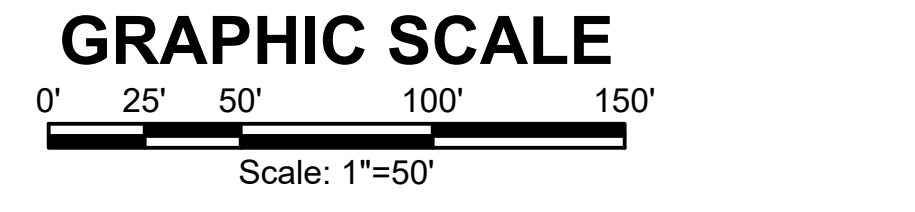
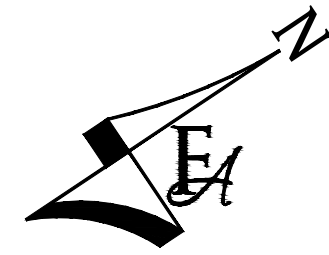


TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
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- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
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- RAILROAD TRACKS
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- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

DRAWN S. CALE  
 DESIGNED J. ADAMS  
 APPROVED J. ADAMS  
 QA W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

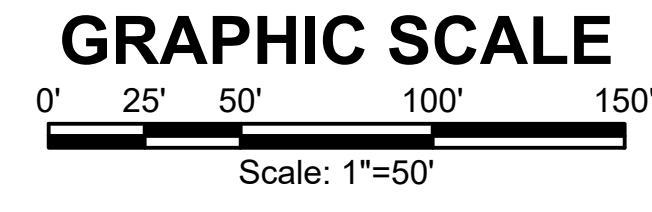
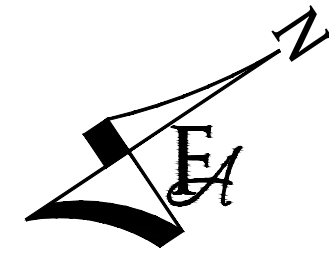
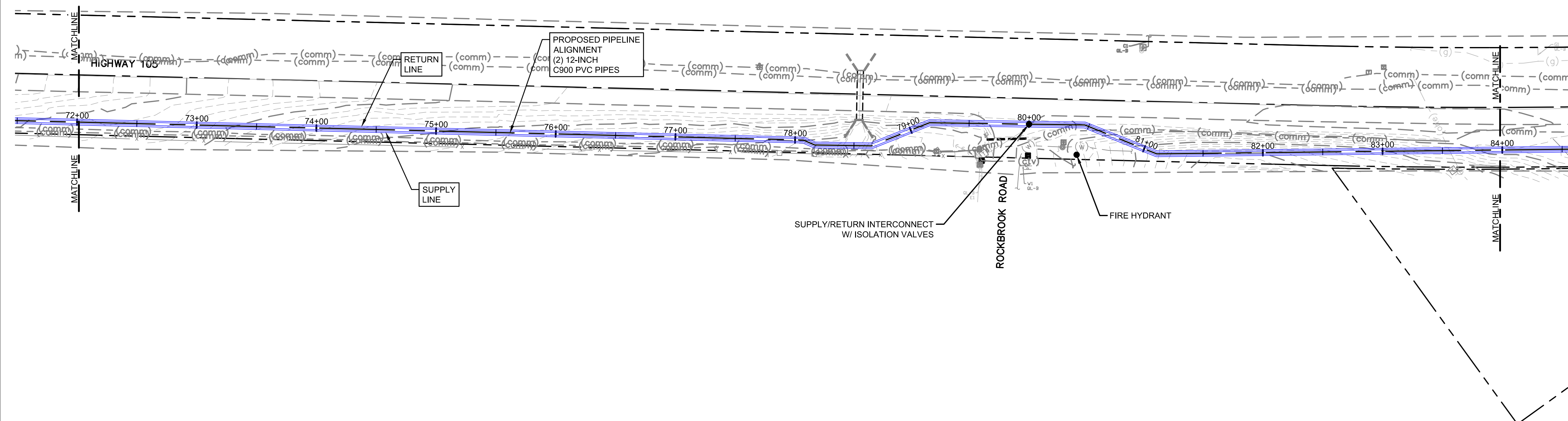
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 60+00 TO STA 72+00

PROJECT NO: **04-20-0153**  
 SHEET NO: **9**  
 DATE: **JAN, 2022** PAGE NO: **9 OF 24**

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
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- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
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- STORM DRAIN COMBO BOX
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- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
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- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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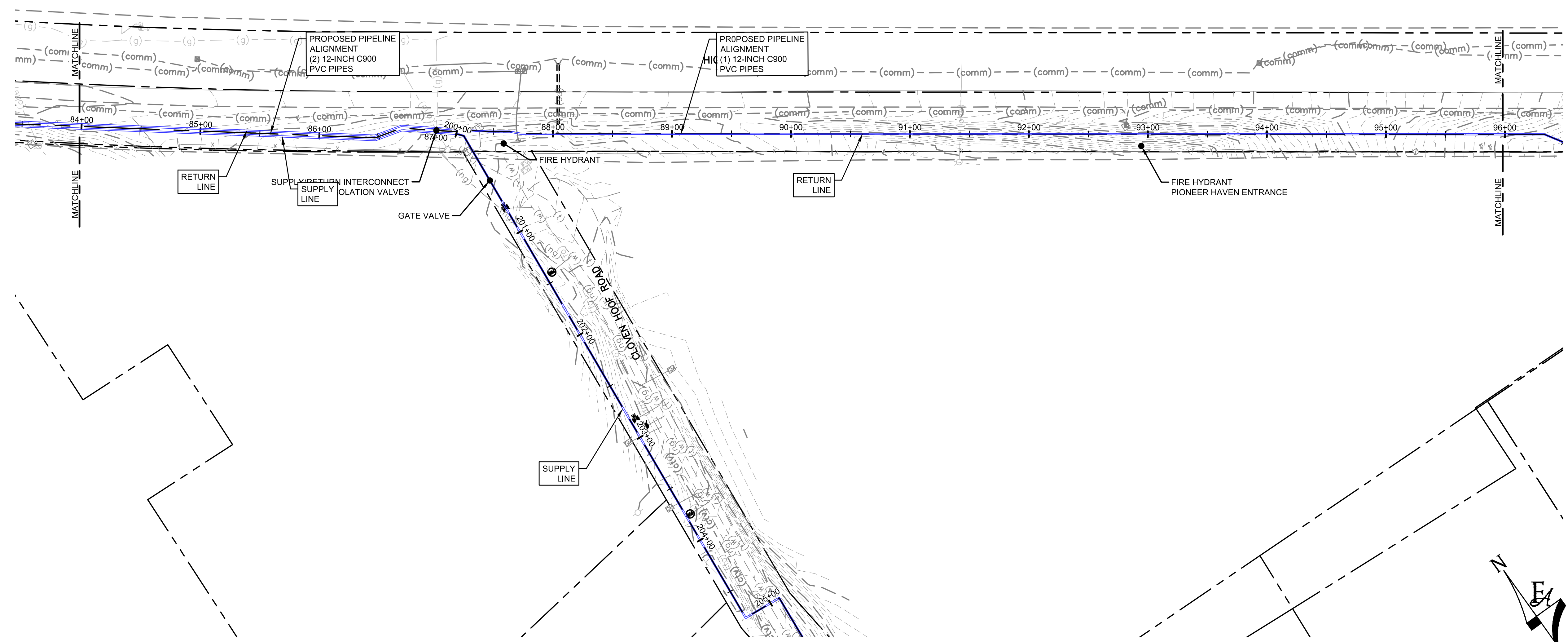
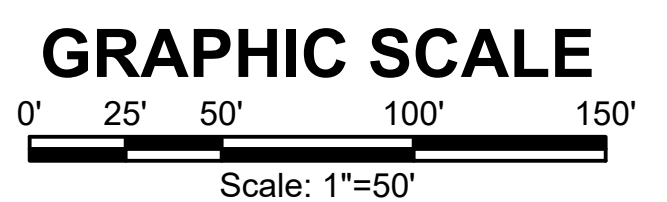
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 72+00 TO STA 84+00

PROJECT NO:	04-20-0153
SHEET NO:	10
DATE:	JAN, 2022
PAGE NO:	10 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



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NO.	REVISIONS	BY	DATE

DRAWN S. CALE  
 DESIGNED J. ADAMS  
 APPROVED J. ADAMS  
 QA W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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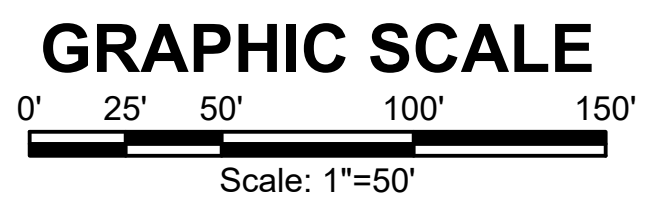
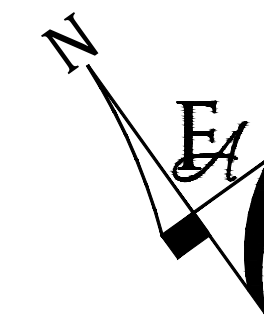
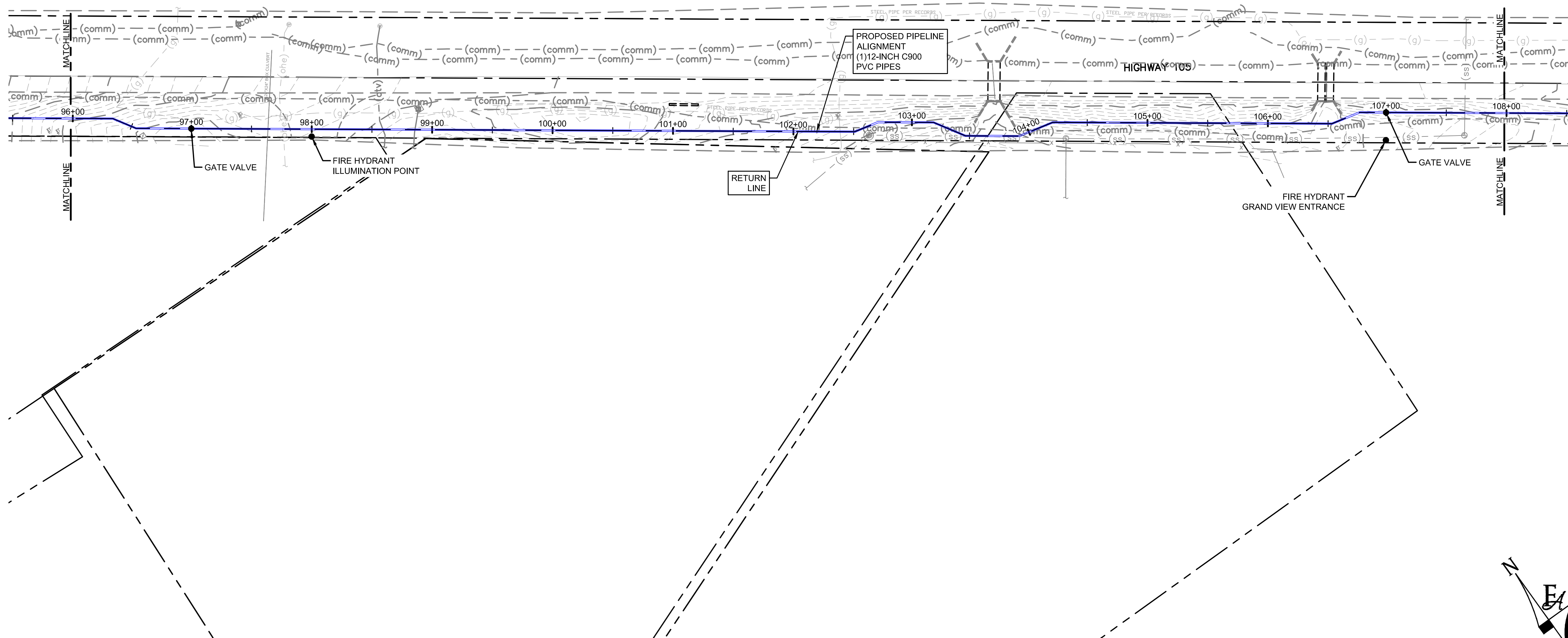
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 84+00 TO STA 96+00

PROJECT NO:	<b>04-20-0153</b>
SHEET NO:	<b>11</b>
DATE:	JAN, 2022
PAGE NO:	11 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
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STREET MONUMENT LINE	---
WIRE FENCE	---
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GAS VALVE	---
GAS METER	---
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SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
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SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
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WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
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RAILROAD TRACKS	---
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SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



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NO.	REVISIONS	BY	DATE

DRAWN \_\_\_\_\_ S. CALE  
 DESIGNED \_\_\_\_\_ J. ADAMS  
 APPROVED \_\_\_\_\_ J. ADAMS  
 QA \_\_\_\_\_ W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

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

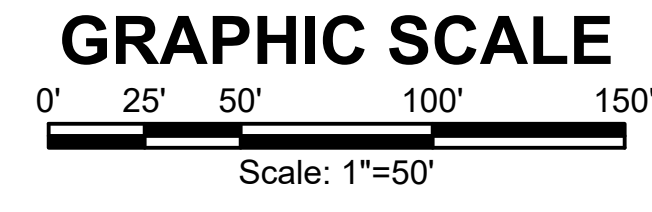
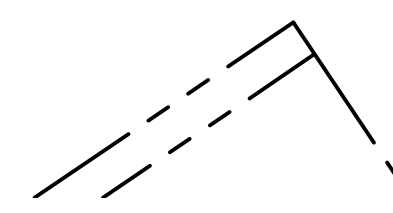
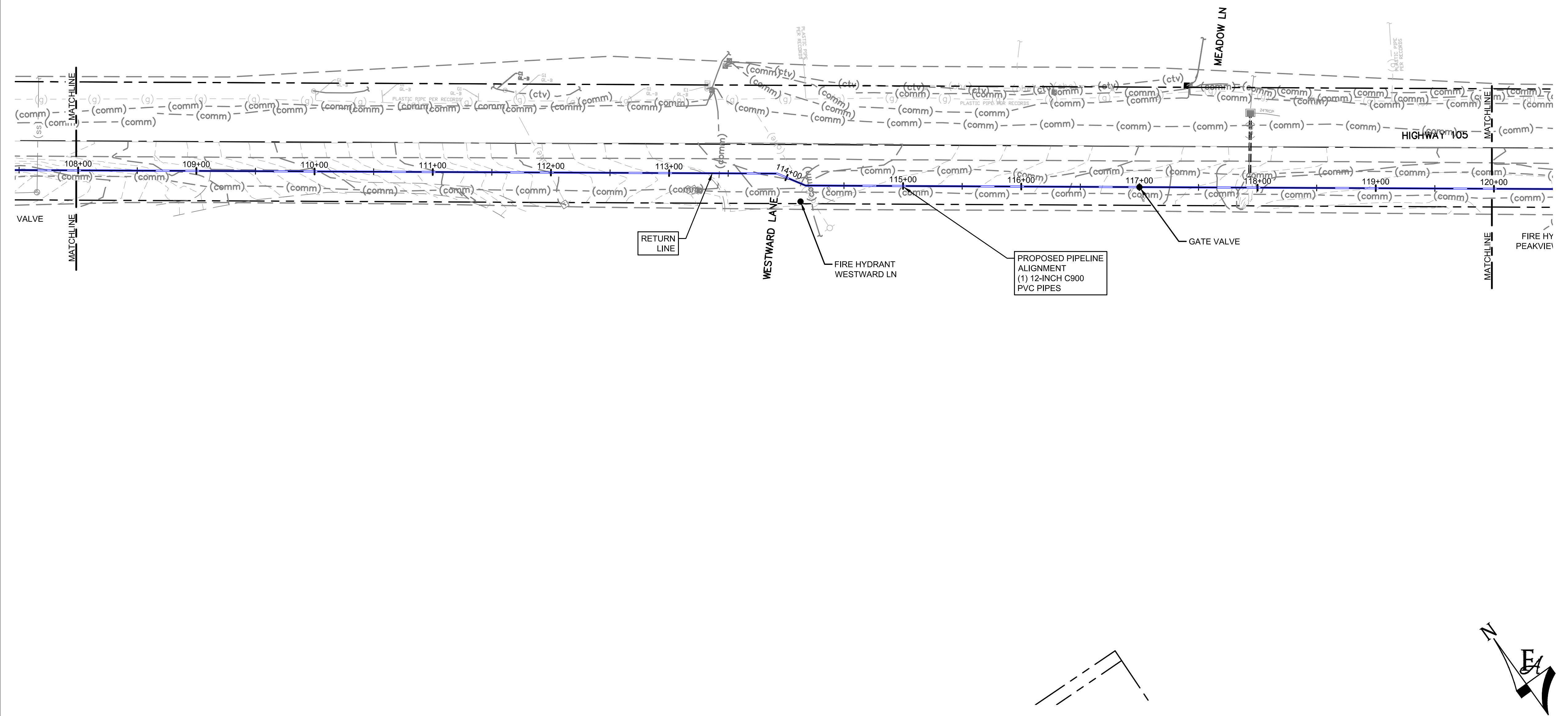
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 96+00 TO STA 108+00

PROJECT NO:	04-20-0153
SHEET NO:	12
DATE:	JAN, 2022
PAGE NO:	12 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER



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

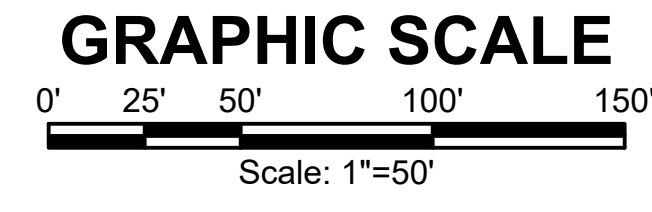
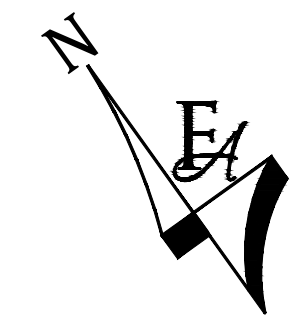
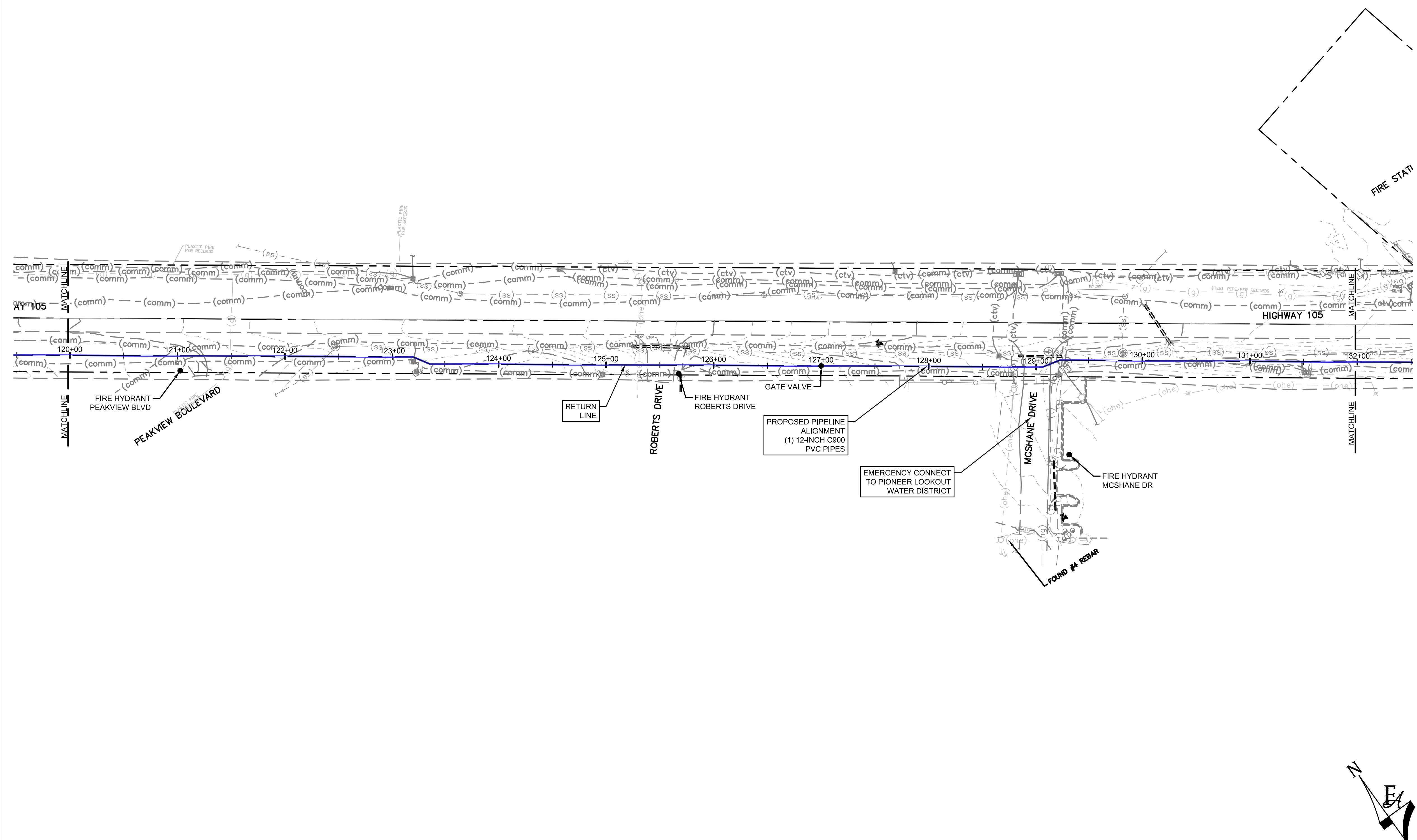
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 108+00 TO STA 120+00

PROJECT NO:	04-20-0153
SHEET NO:	13
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TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

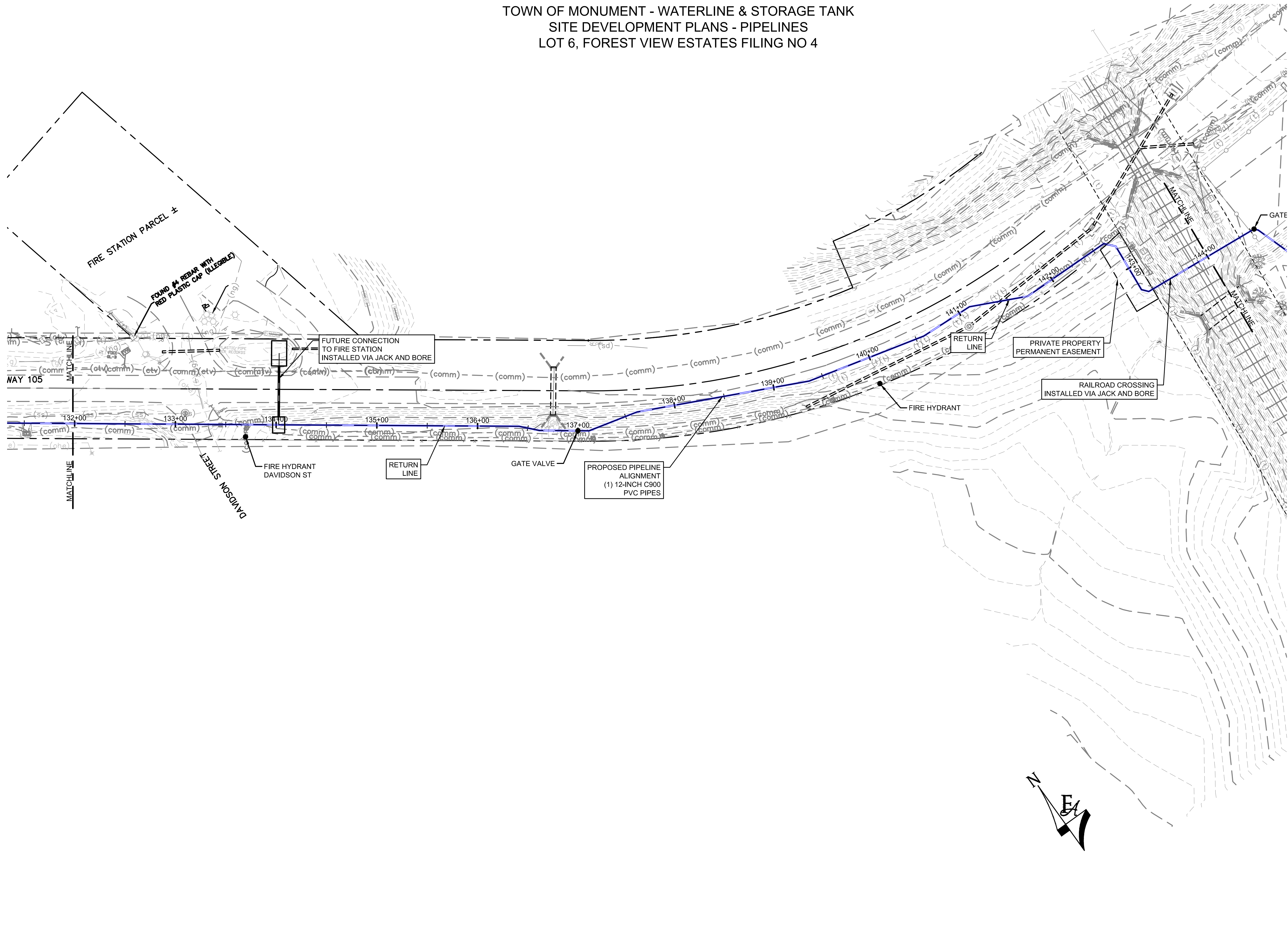


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*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 120+00 TO STA 132+00

PROJECT NO:	04-20-0153
SHEET NO:	14
DATE:	JAN, 2022
PAGE NO:	14 OF 24

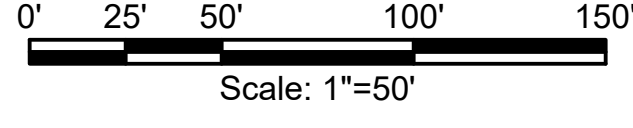
TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE -4250
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

GRAPHIC SCALE



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



**FORSGREN**  
*Associates Inc.*

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**

**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**

STA 132+00 TO STA 144+00

PROJECT NO:	04-20-0153
SHEET NO:	15
DATE:	JAN, 2022
PAGE NO:	15 OF 24

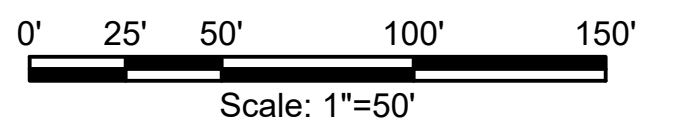
TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
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- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

GRAPHIC SCALE



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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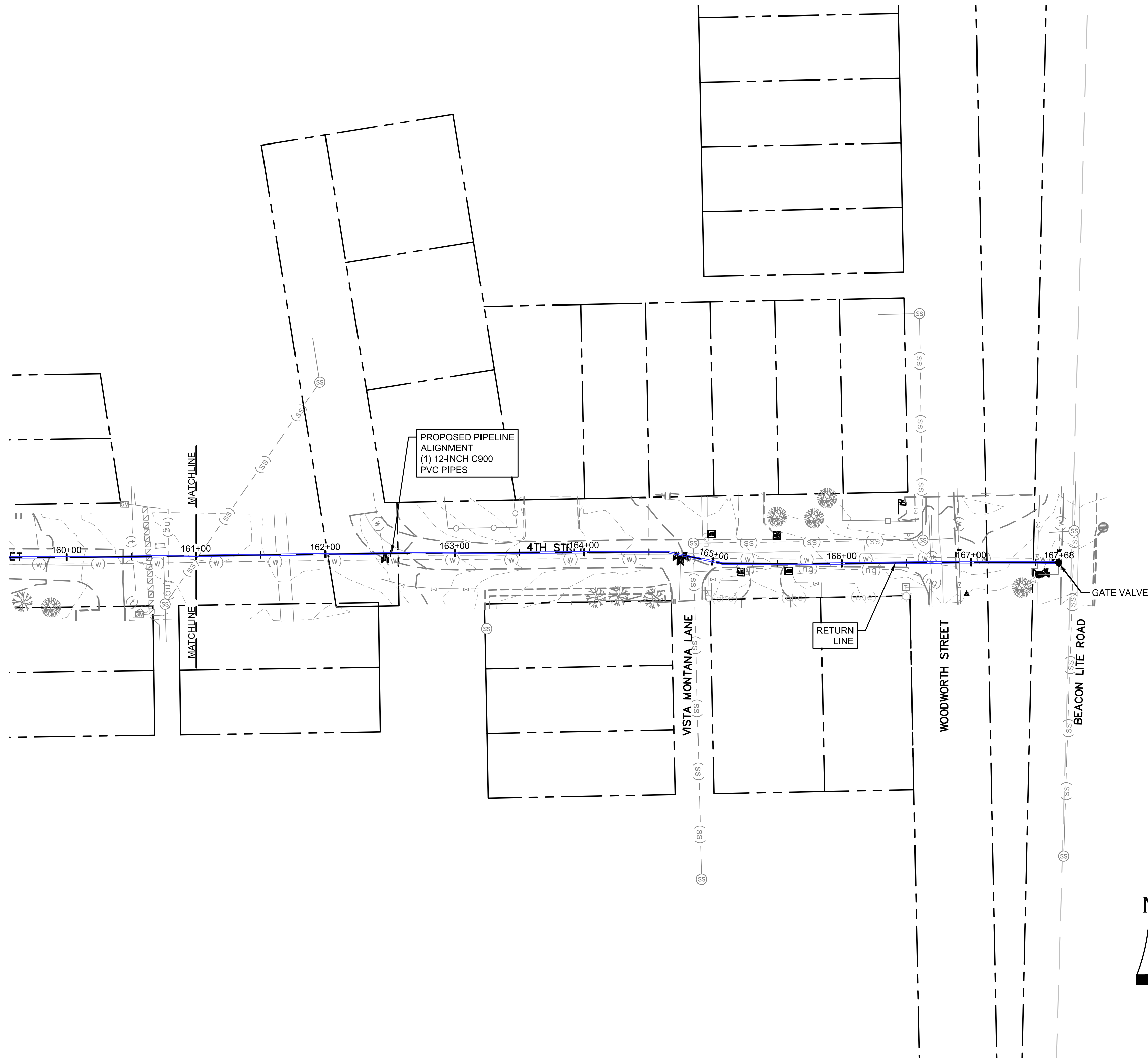
**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 144+00 TO STA 161+00

PROJECT NO:	04-20-0153
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DATE:	JAN, 2022
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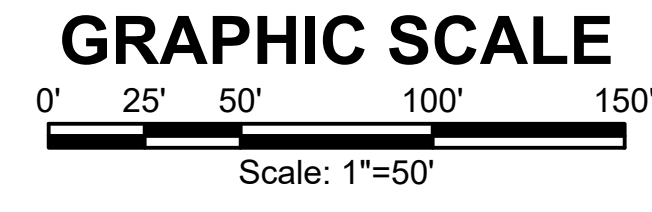
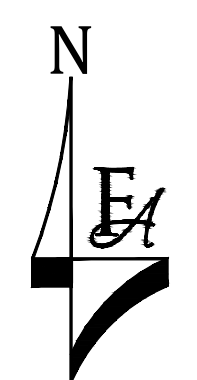


TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

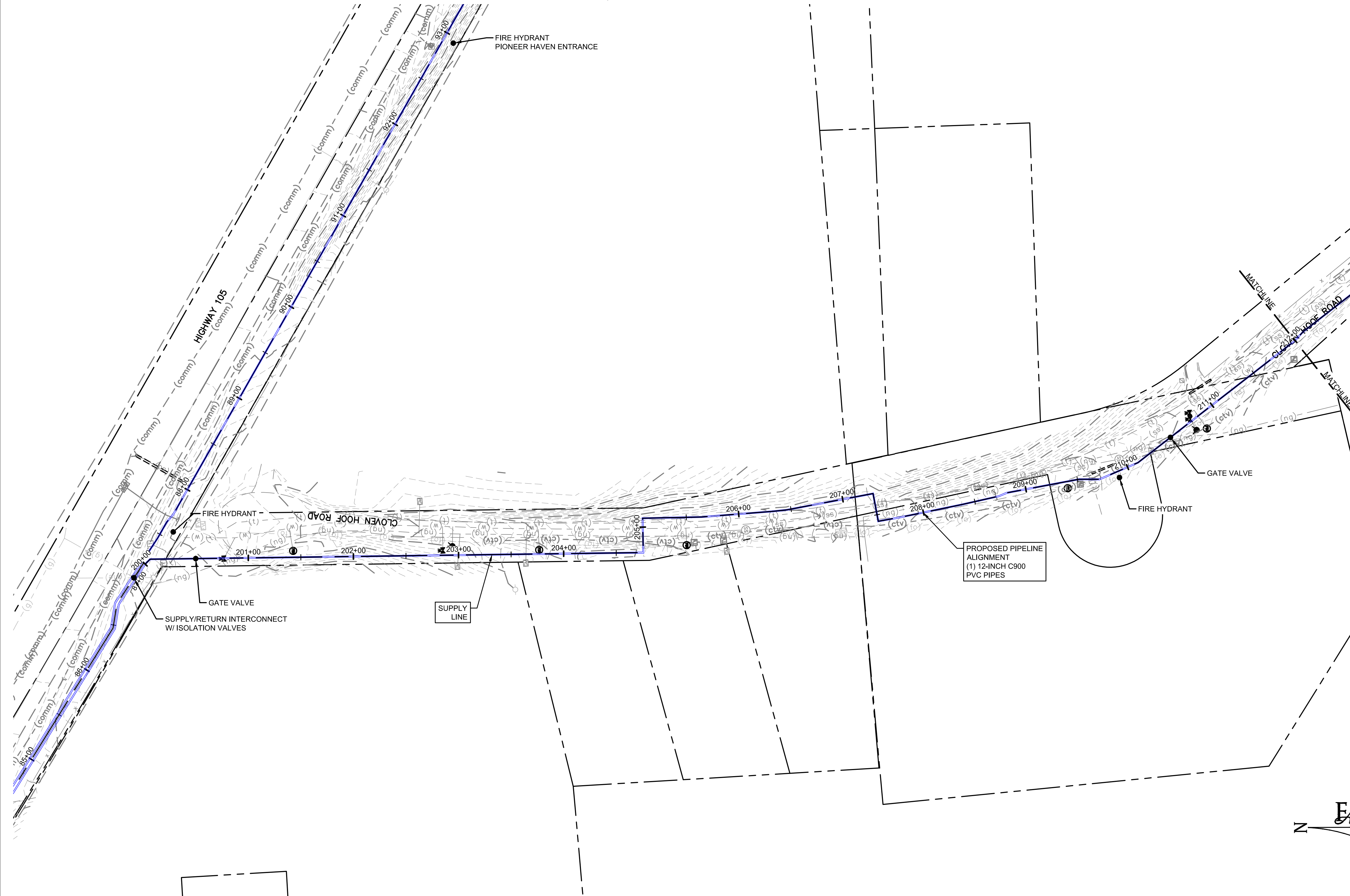
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS**  
**PIPELINE ALIGNMENTS**  
 STA 161+00 TO STA 167+68

PROJECT NO:	04-20-0153
SHEET NO:	17
DATE:	JAN, 2022
PAGE NO:	17 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
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**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

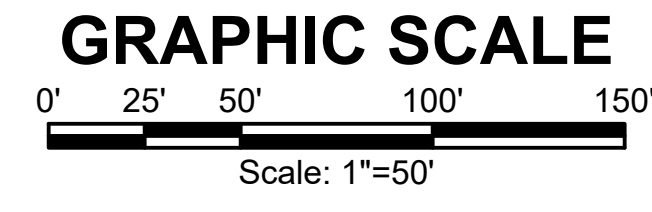
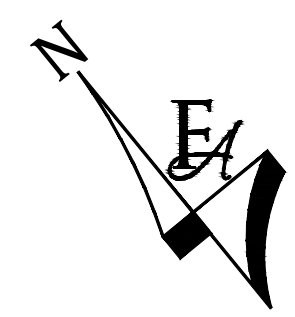
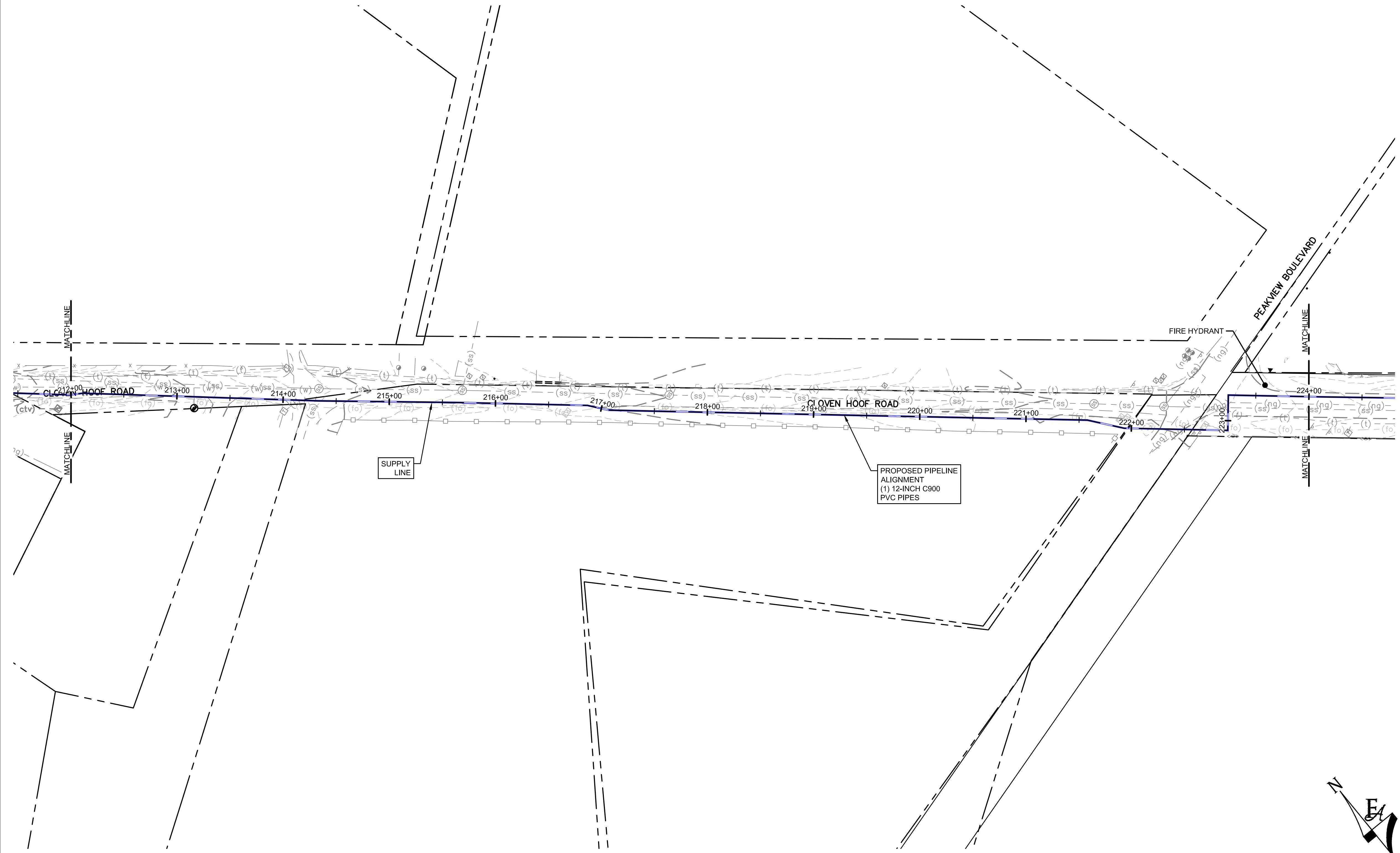
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS PIPELINE**  
**ALIGNMENTS**  
 STA 200+00 TO STA 212+00

PROJECT NO:	04-20-0153
SHEET NO:	18
DATE:	JAN, 2022
PAGE NO:	18 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
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**FORSGREN**  
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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
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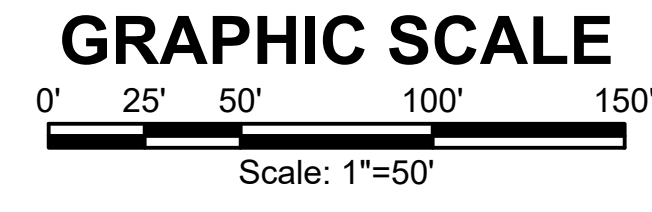
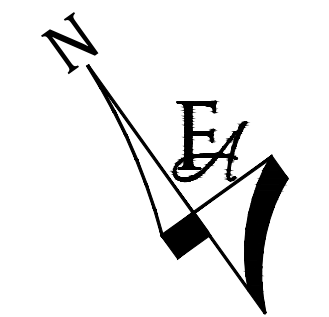
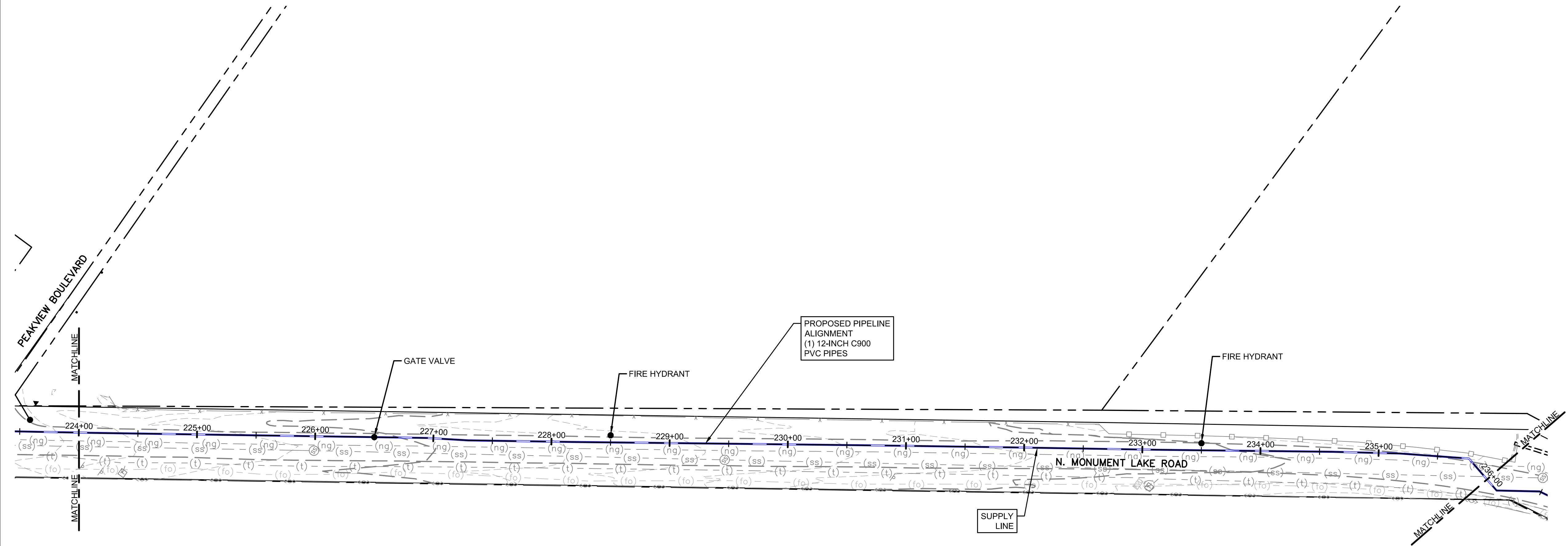
**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS PIPELINE**  
**ALIGNMENTS**  
 STA 212+00 TO STA 224+00

PROJECT NO:	04-20-0153
SHEET NO:	19
DATE:	JAN, 2022
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TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



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

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS PIPELINE**  
**ALIGNMENTS**  
 STA 224+00 TO STA 336+00

PROJECT NO:	04-20-0153
SHEET NO:	20
DATE:	JAN, 2022
PAGE NO:	20 OF 24

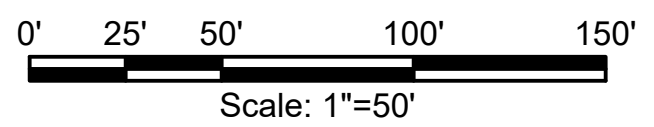
TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	====
CONTROL LINE	=====
PROPERTY OR R/W LINE	-----
EASEMENT LINE	-----
STREET MONUMENT LINE	-----
WIRE FENCE	—o—
CHAIN LINK FENCE	—x—
BARBED WIRE FENCE	—X—
CONTOUR LINE	---4250---
UNDERGROUND ELECTRIC	---(uge)---
OVERHEAD ELECTRIC	---(ohe)---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---(g)---
GAS VALVE	ⓐ
GAS METER	ⓐ
IRRIGATION LINE	---IRR---
SANITARY SEWER LINE	---SS---
SANITARY SEWER CLEANOUT	Ⓢ
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	---SW---
SECONDARY WATER VALVE	ⓐ
SECONDARY WATER VAULT	ⓐ
STORM DRAIN LINE	---SD---
STORM DRAIN CATCH BASIN	ⓐ
STORM DRAIN INLET(S)	ⓐ
STORM DRAIN COMBO BOX	ⓐ
STORM DRAIN MANHOLE	ⓐ
STORM DRAIN CLEANOUT BOX	ⓐ
STORM DRAIN VAULT	ⓐ
CULVERT	SD
TELEPHONE CABLE	---COMM---
TELEPHONE BOX	ⓐ
TELEPHONE MANHOLE	ⓐ
TELEPHONE POST	ⓐ
WATER LINE	---PW---
FIRE HYDRANT	ⓐ
FIRE RISER	ⓐ
WATER VALVE	ⓐ
WATER AIR RELEASE VALVE	ⓐ
WATER METER	ⓐ
UTILITY POLE & ANCHOR	ⓐ OHE →
POWER POLE	ⓐ
STREET LIGHT	ⓐ
LIGHT	ⓐ
ASPHALT PAVING	====
CURB & GUTTER	====
SIDEWALK	====
RAILROAD TRACKS	====
GUARD RAIL	====
SIGN	ⓐ
STRUCTURE	ⓐ
LANDSCAPING (TREES ETC.)	ⓐ
SECTION CORNER	12 11 4 3
MONUMENT	ⓐ
BENCH MARK	ⓐ
SURVEY CONTROL POINT	△ CP800



GRAPHIC SCALE



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

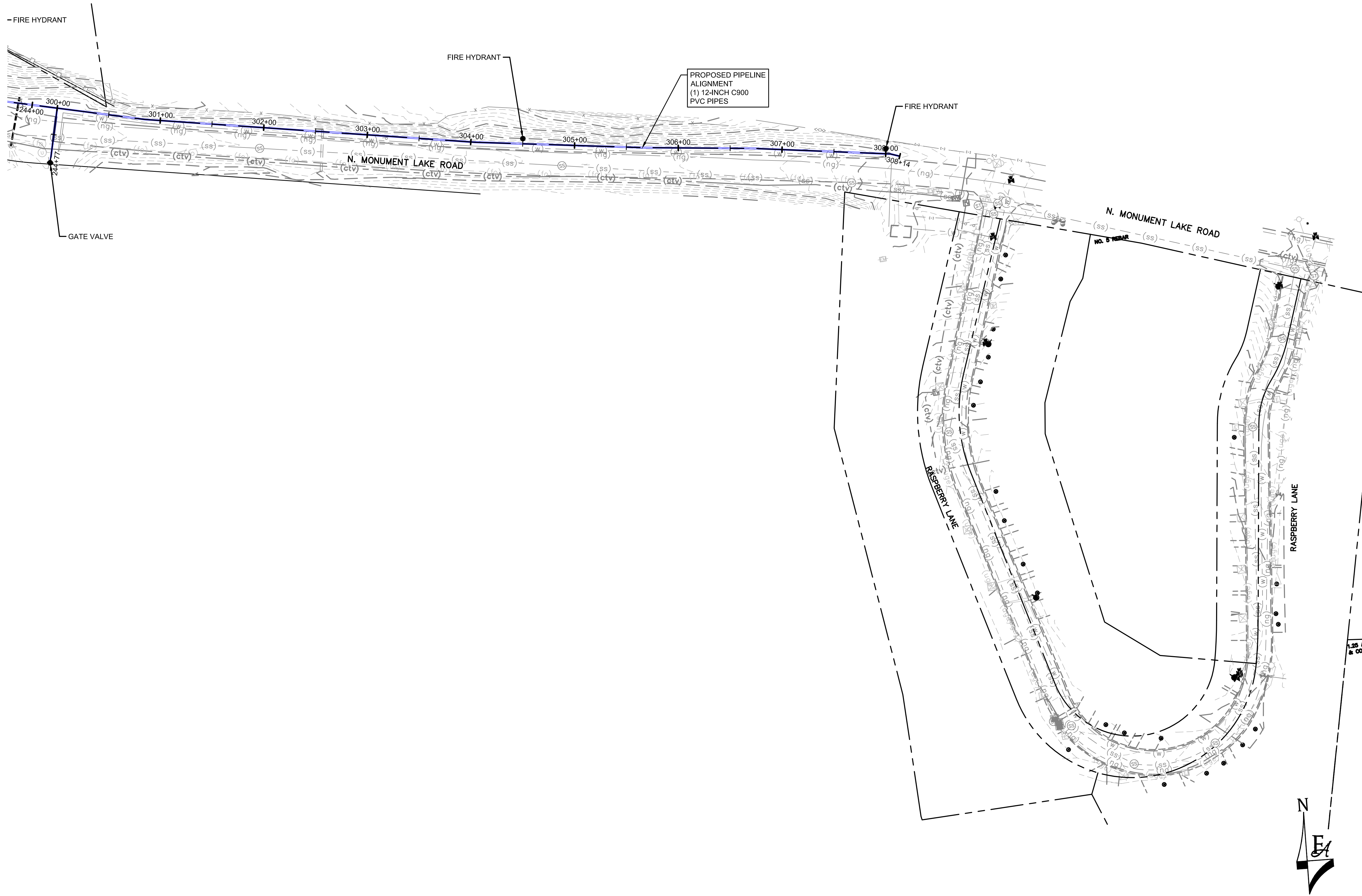


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 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS PIPELINE**  
**ALIGNMENTS**  
 STA 236+00 TO STA 245+00

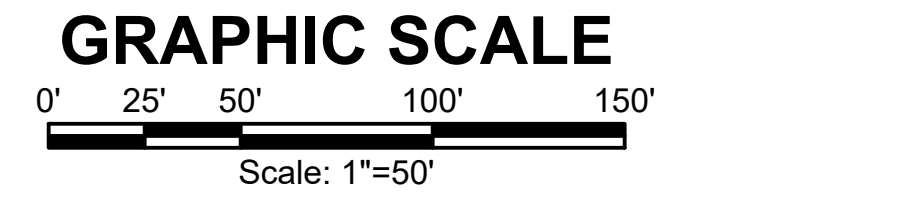
PROJECT NO:	04-20-0153
SHEET NO:	21
DATE:	JAN, 2022
PAGE NO:	21 OF 24

TOWN OF MONUMENT - WATERLINE & STORAGE TANK  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE -4250
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
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- ELECTRIC METER
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- STORM DRAIN MANHOLE
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- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
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- WATER LINE
- FIRE HYDRANT
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- GUARD RAIL
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- SECTION CORNER
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NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

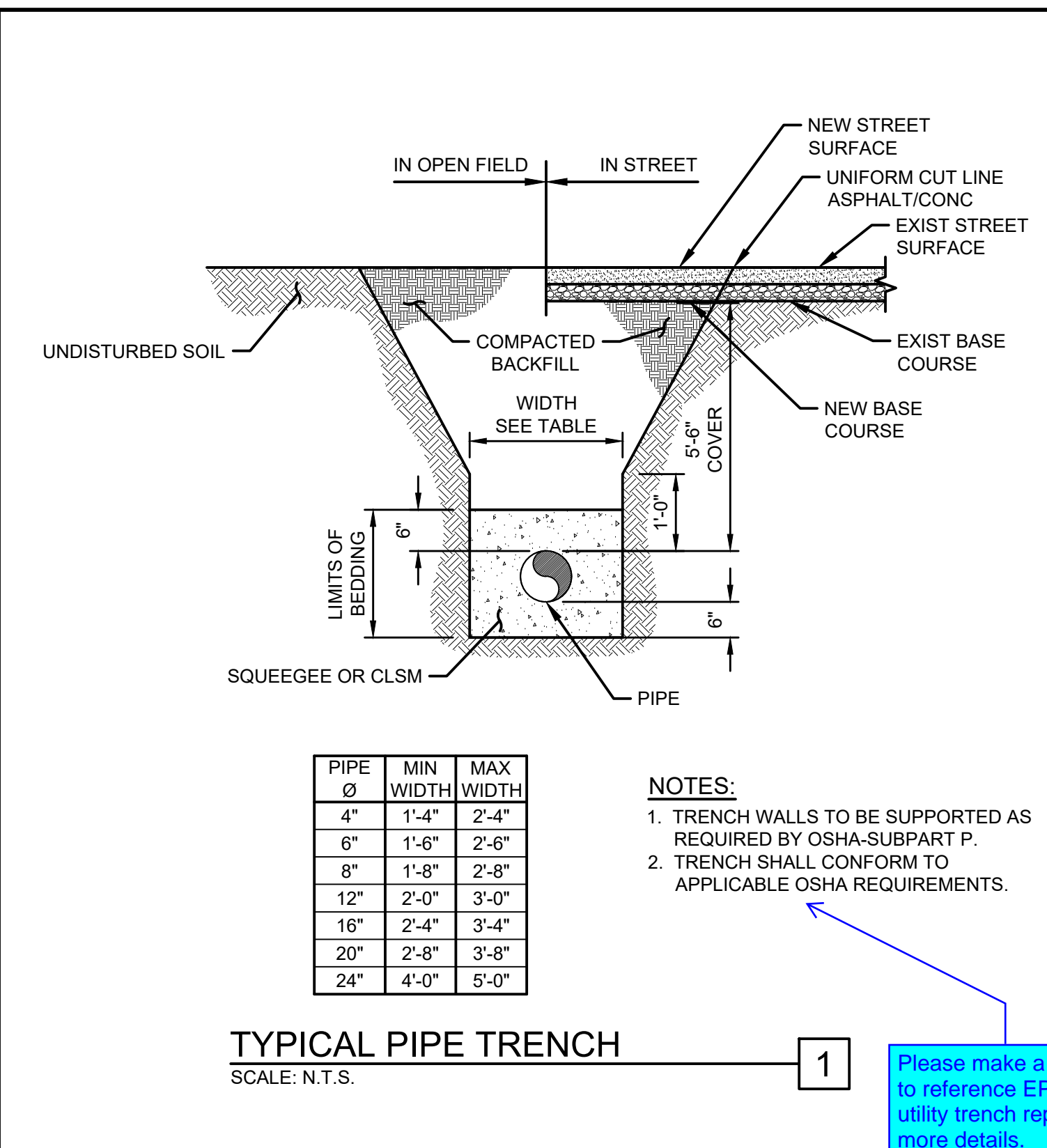


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 PH: 720.232.6644

**TOWN OF MONUMENT WATERLINE & TANK**  
**CONSTRUCTION PLANS PIPELINE**  
**ALIGNMENTS**  
 STA 300+00 TO STA 308+14

PROJECT NO:	04-20-0153
SHEET NO:	22
DATE:	JAN, 2022
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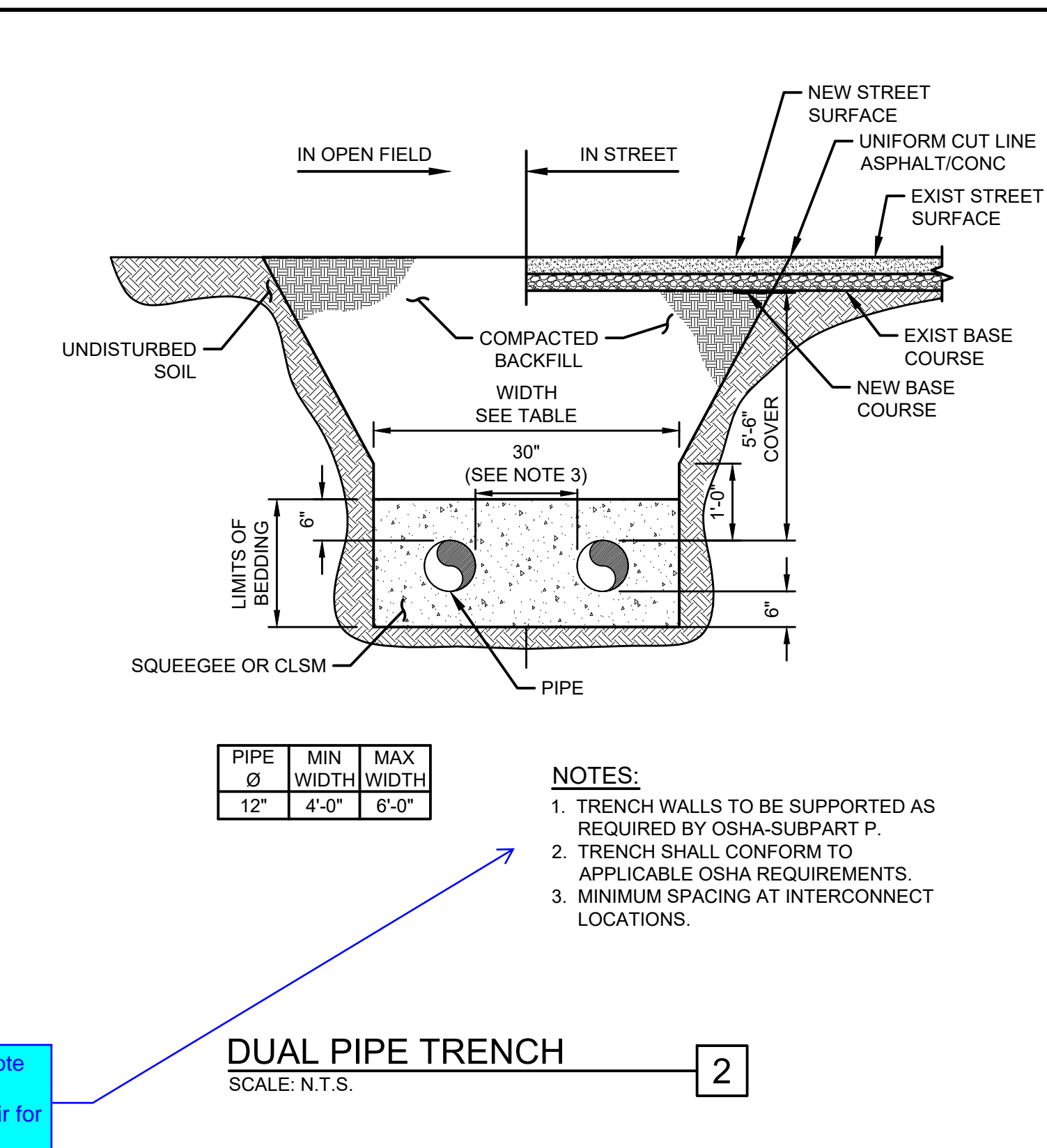


PIPE Ø	MIN WIDTH	MAX WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	4'-0"	5'-0"

- NOTES:**
- TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA-SUBPART P.
  - TRENCH SHALL CONFORM TO APPLICABLE OSHA REQUIREMENTS.

**TYPICAL PIPE TRENCH**  
SCALE: N.T.S. **1**

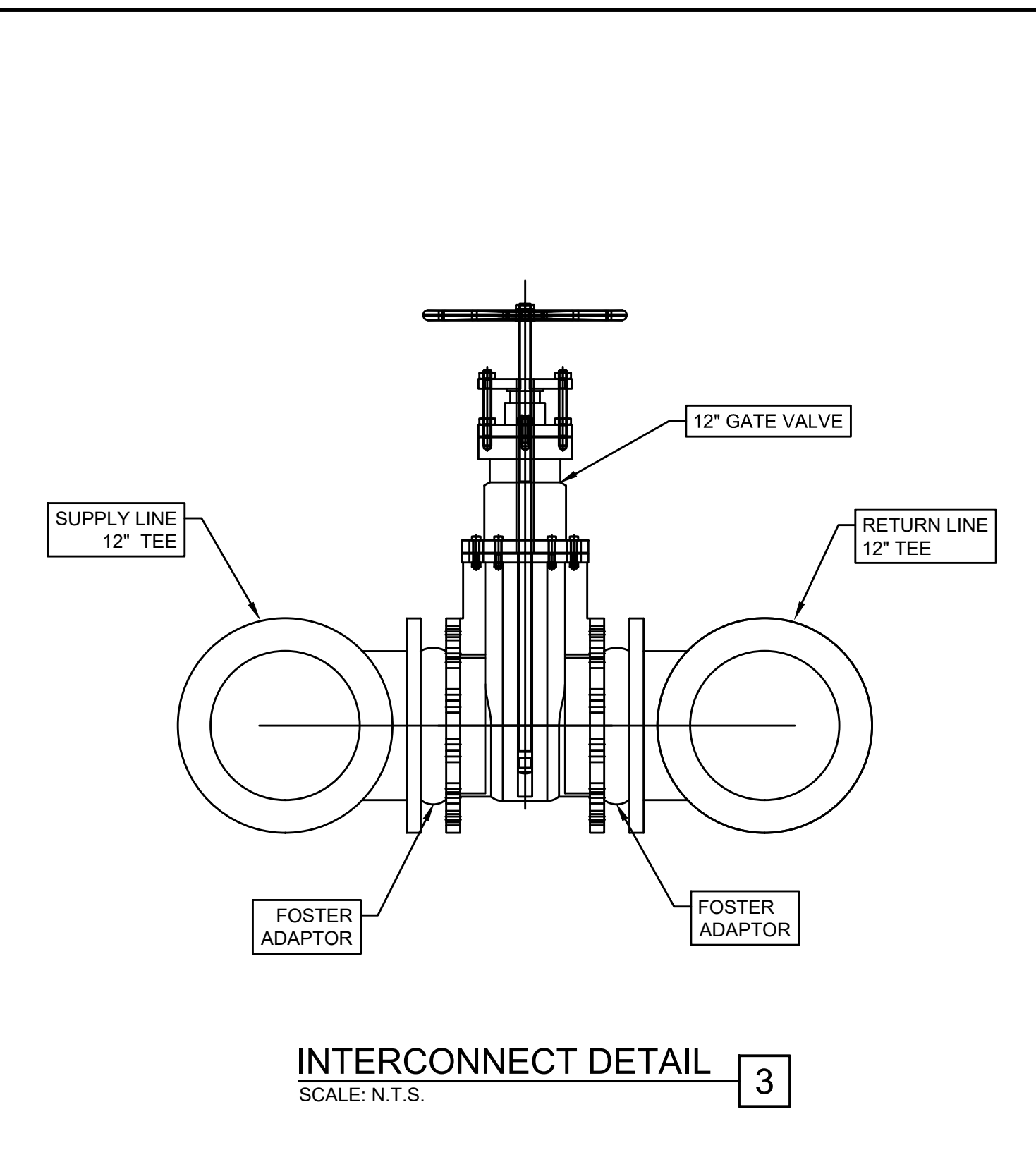
Please make a note to reference EPC utility trench repair for more details.



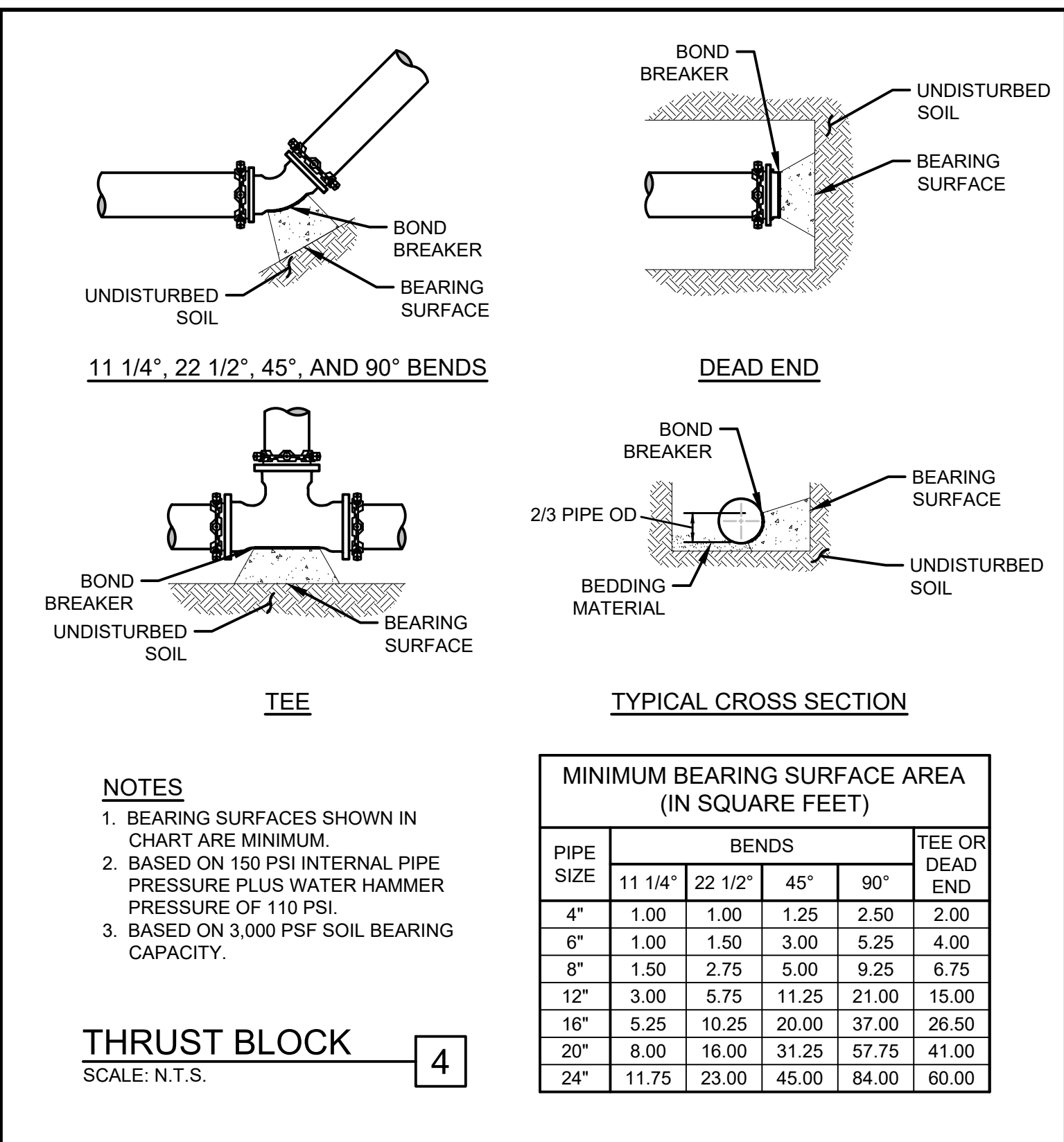
PIPE Ø	MIN WIDTH	MAX WIDTH
12"	4'-0"	6'-0"

- NOTES:**
- TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA-SUBPART P.
  - TRENCH SHALL CONFORM TO APPLICABLE OSHA REQUIREMENTS.
  - MINIMUM SPACING AT INTERCONNECT LOCATIONS.

**DUAL PIPE TRENCH**  
SCALE: N.T.S. **2**



**INTERCONNECT DETAIL**  
SCALE: N.T.S. **3**

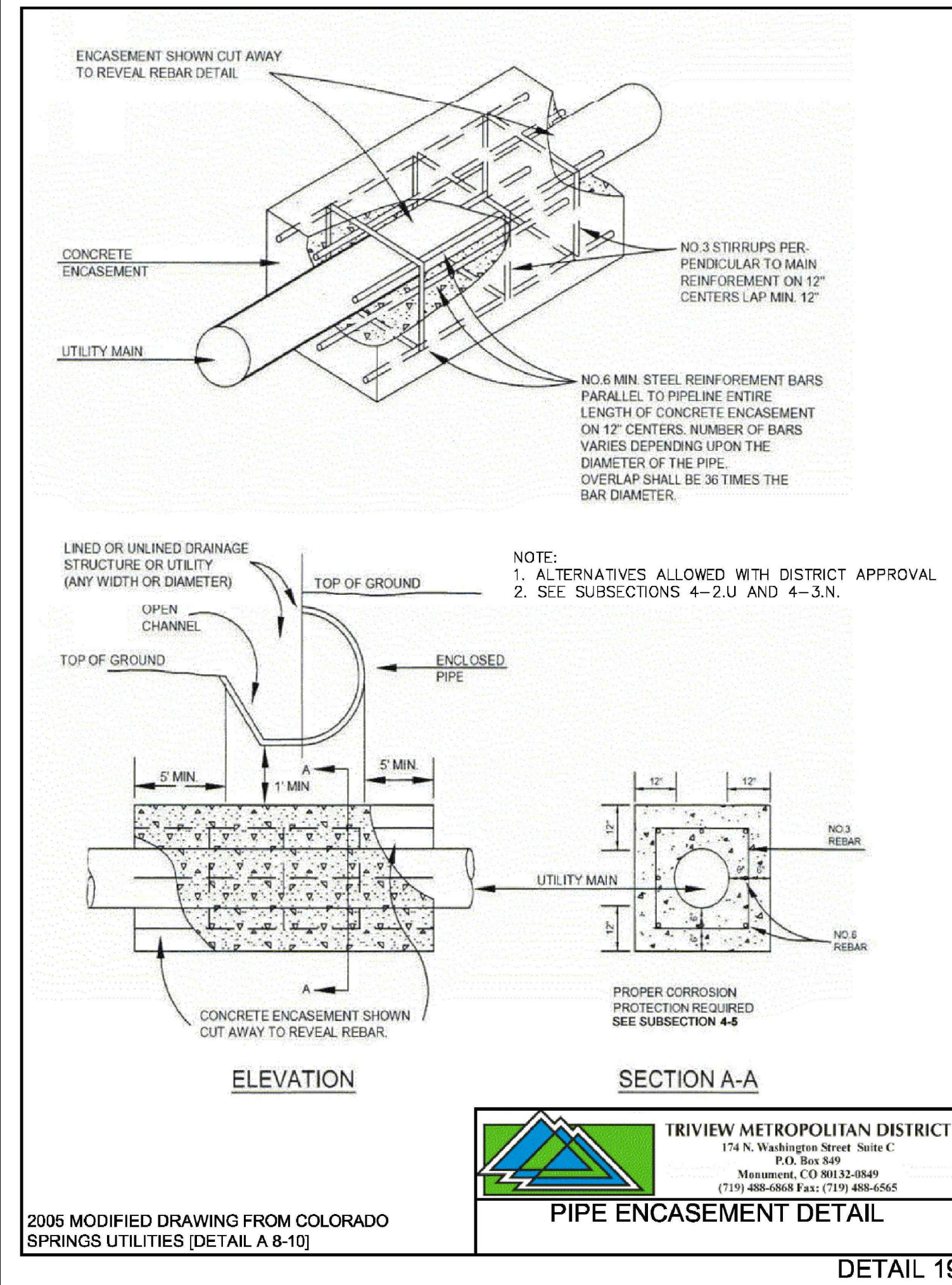


**MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)**

PIPE SIZE	BENDS				TEE OR DEAD END
	11 1/4"	22 1/2"	45"	90"	
4"	1.00	1.00	1.25	2.50	2.00
6"	1.00	1.50	3.00	5.25	4.00
8"	1.50	2.75	5.00	9.25	6.75
12"	3.00	5.75	11.25	21.00	15.00
16"	5.25	10.25	20.00	37.00	26.50
20"	8.00	16.00	31.25	57.75	41.00
24"	11.75	23.00	45.00	84.00	60.00

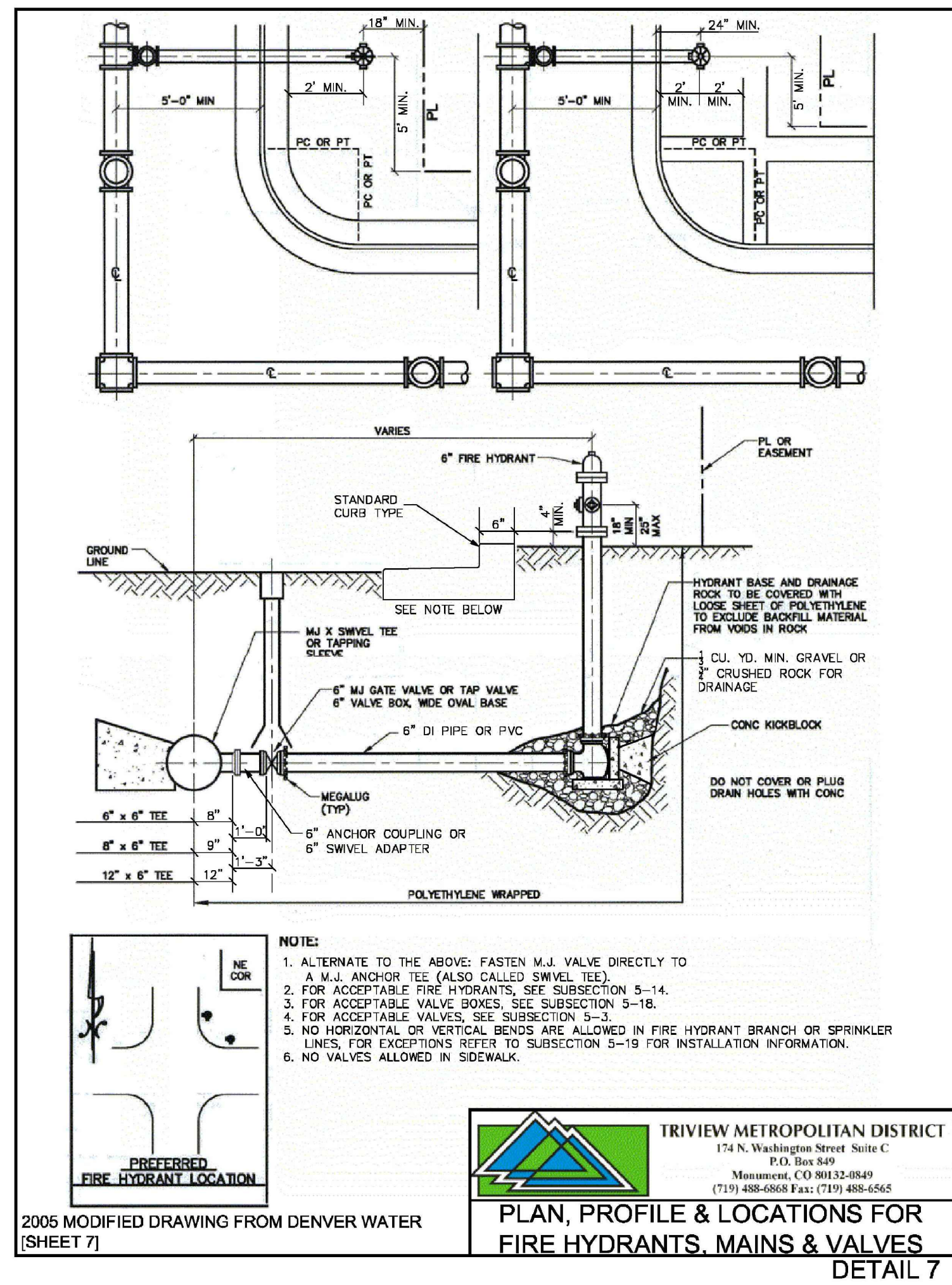
- NOTES:**
- BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
  - BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER PRESSURE OF 110 PSI.
  - BASED ON 3,000 PSF SOIL BEARING CAPACITY.

**THRUST BLOCK**  
SCALE: N.T.S. **4**



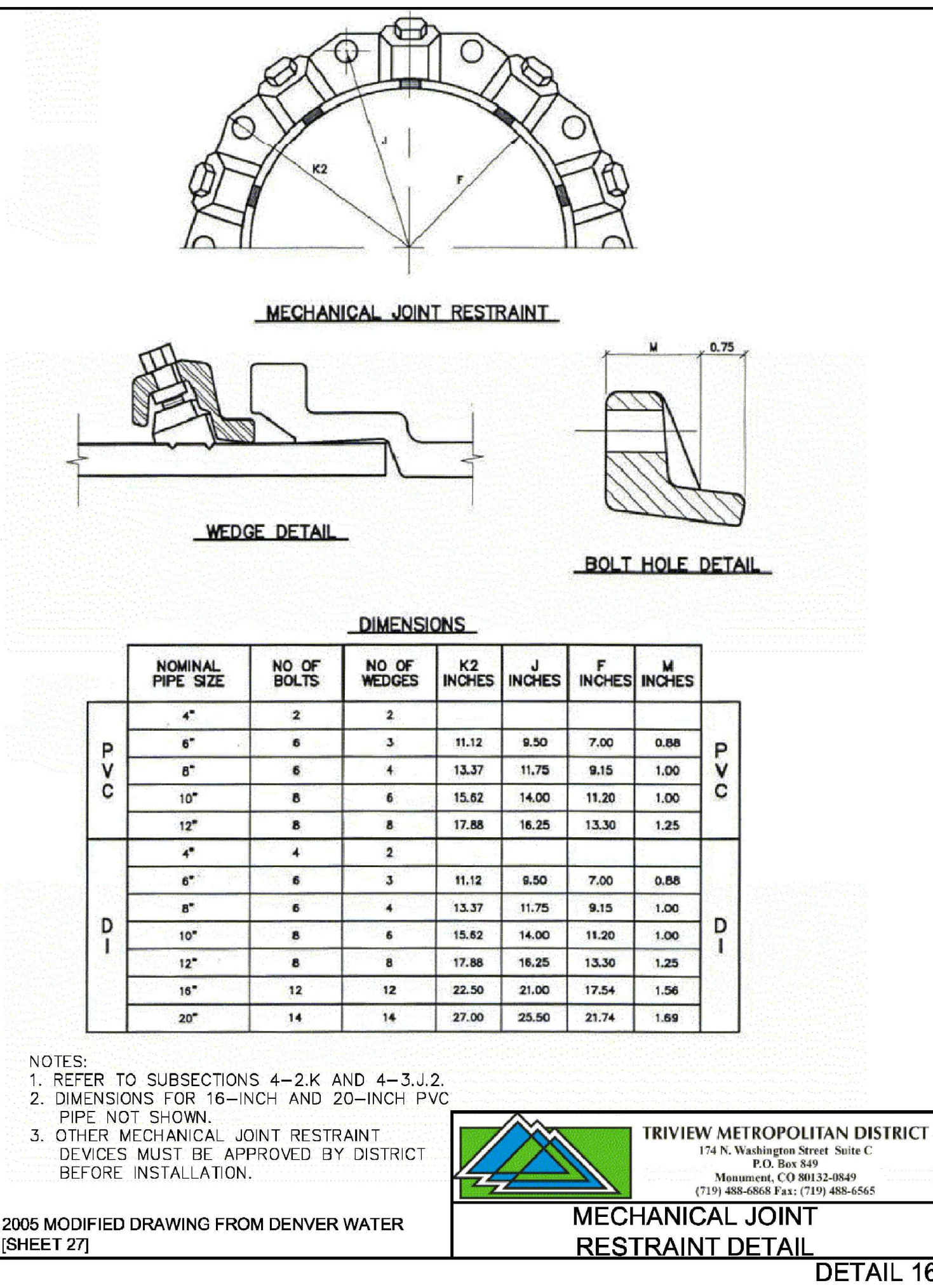
**TRIVIEW METROPOLITAN DISTRICT**  
174 N. Washington Street Suite C  
P.O. Box 849  
Monument, CO 80132-0849  
(719) 488-6868 Fax: (719) 488-6565

**PIPE ENCASEMENT DETAIL**  
2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES (DETAIL A 8-10) **DETAIL 19**



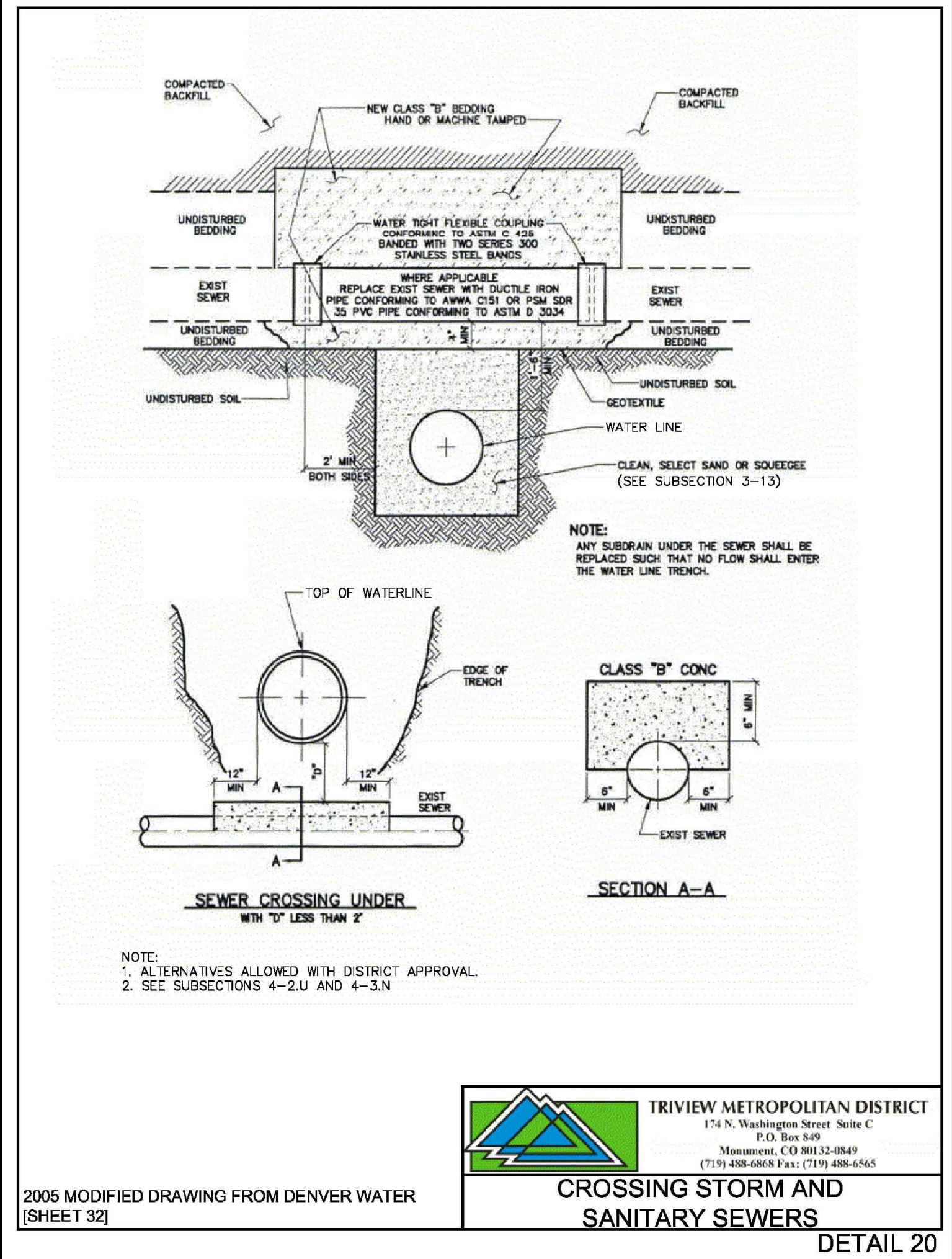
**TRIVIEW METROPOLITAN DISTRICT**  
174 N. Washington Street Suite C  
P.O. Box 849  
Monument, CO 80132-0849  
(719) 488-6868 Fax: (719) 488-6565

**PLAN, PROFILE & LOCATIONS FOR FIRE HYDRANTS, MAINS & VALVES**  
2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 7) **DETAIL 7**



**TRIVIEW METROPOLITAN DISTRICT**  
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P.O. Box 849  
Monument, CO 80132-0849  
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**MECHANICAL JOINT RESTRAINT DETAIL**  
2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 27) **DETAIL 16**



**TRIVIEW METROPOLITAN DISTRICT**  
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P.O. Box 849  
Monument, CO 80132-0849  
(719) 488-6868 Fax: (719) 488-6565

**CROSSING STORM AND SANITARY SEWERS**  
2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 32) **DETAIL 20**

NO.	REVISIONS	BY	DATE	APPROVED	APPROVED BY

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

NO. \_\_\_\_\_ REVISIONS \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_ APPROVED \_\_\_\_\_ APPROVED BY \_\_\_\_\_

QA \_\_\_\_\_ QA BY \_\_\_\_\_



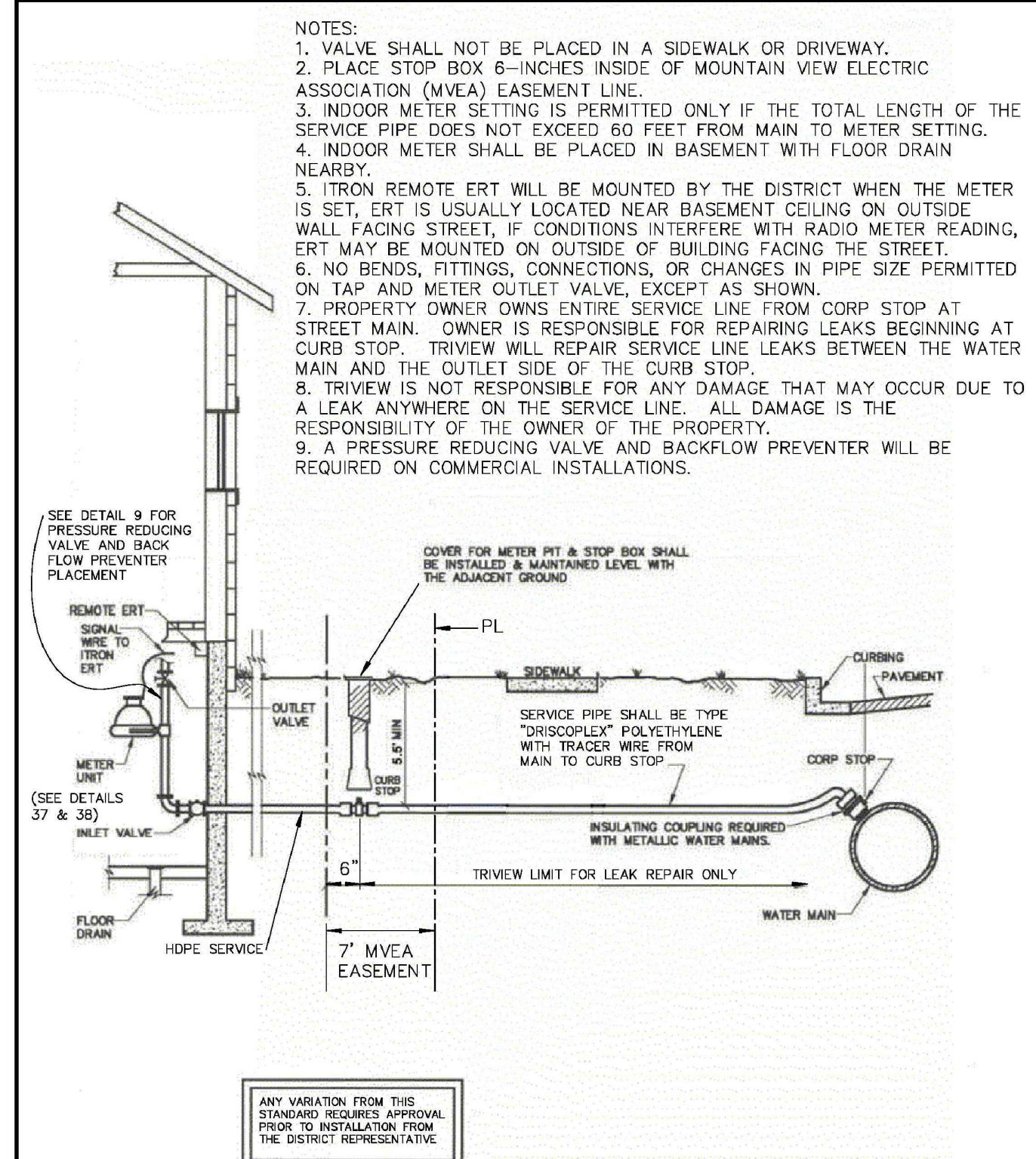
**FORSGREN Associates Inc.**  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644

MONUMENT WATERLINE & STORAGE TANK

**DETAILS - 1**

PROJECT NO: **04-20-0153**  
SHEET NO: **23**  
DATE: JAN, 2022 PAGE NO: 23 OF 24

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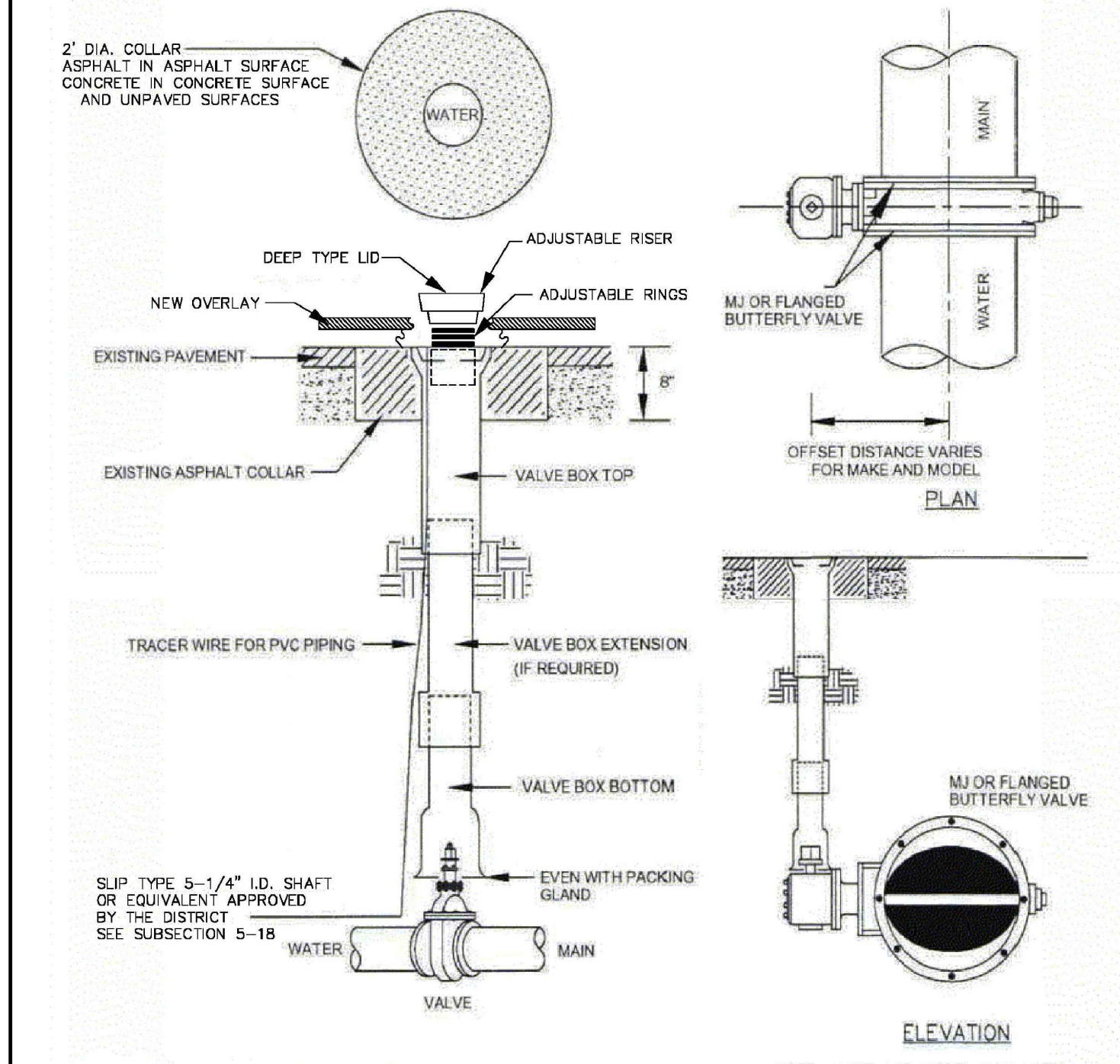


- NOTES:
1. VALVE SHALL NOT BE PLACED IN A SIDEWALK OR DRIVEWAY.
  2. PLACE STOP BOX 6-INCHES INSIDE OF MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA) EASEMENT LINE.
  3. INDOOR METER SETTING IS PERMITTED ONLY IF THE TOTAL LENGTH OF THE SERVICE PIPE DOES NOT EXCEED 60 FEET FROM MAIN TO METER SETTING.
  4. INDOOR METER SHALL BE PLACED IN BASEMENT WITH FLOOR DRAIN NEARBY.
  5. ITRON REMOTE ERT WILL BE MOUNTED BY THE DISTRICT WHEN THE METER IS SET. ERT IS USUALLY LOCATED NEAR BASEMENT CEILING ON OUTSIDE WALL FACING STREET. IF CONDITIONS INTERFERE WITH RADIO METER READING, ERT MAY BE MOUNTED ON OUTSIDE OF BUILDING FACING THE STREET.
  6. NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE PERMITTED ON TAP AND METER OUTLET VALVE, EXCEPT AS SHOWN.
  7. PROPERTY OWNER OWNS ENTIRE SERVICE LINE FROM CORP STOP AT STREET MAIN. OWNER IS RESPONSIBLE FOR REPAIRING LEAKS BEGINNING AT CURB STOP. TRIVIEW WILL REPAIR SERVICE LINE LEAKS BETWEEN THE WATER MAIN AND THE OUTLET SIDE OF THE CURB STOP.
  8. TRIVIEW IS NOT RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR DUE TO A LEAK ANYWHERE ON THE SERVICE LINE. ALL DAMAGE IS THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.
  9. A PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER WILL BE REQUIRED ON COMMERCIAL INSTALLATIONS.

2005 MODIFIED DRAWING FROM DENVER WATER [SHEET 60]

**SERVICE LINE, STOP BOX, & INSIDE INSTALLATION FOR 3/4" & 1" METER**  
DETAIL 8

TRIVIEW METROPOLITAN DISTRICT  
174 N. Washington Street Suite C  
P.O. Box 849  
Monument, CO 80132-8849  
(719) 488-6868 Fax: (719) 488-6565



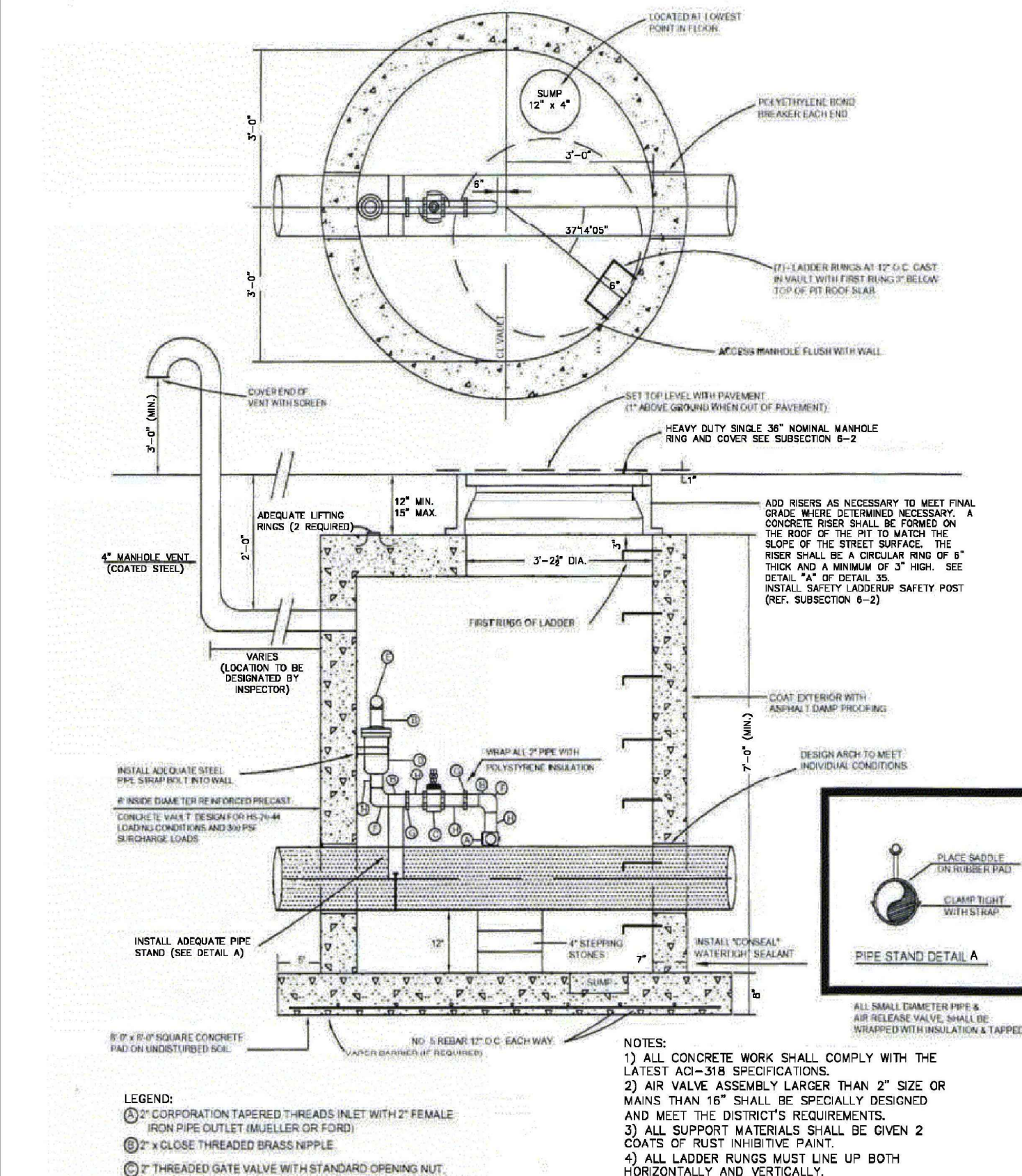
NOTE: MAIN AND FIRE HYDRANT VALVES AND VALVE BOXES SHALL BE LOCATED IN THE PAVEMENT SURFACE OF THE STREET, AND SHALL NOT BE IN THE CURB PAN, CURB OR SIDEWALK.

NOTE: MAKE AND MODEL MAY VARY FROM SCHEMATIC SHOWN IN DETAIL. CONTROL VALVE MAY BE LOCATED ON THE TOP OR SIDE.

2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES [DETAIL A 9-2]

**VALVE BOX INSTALLATION**  
DETAIL 27

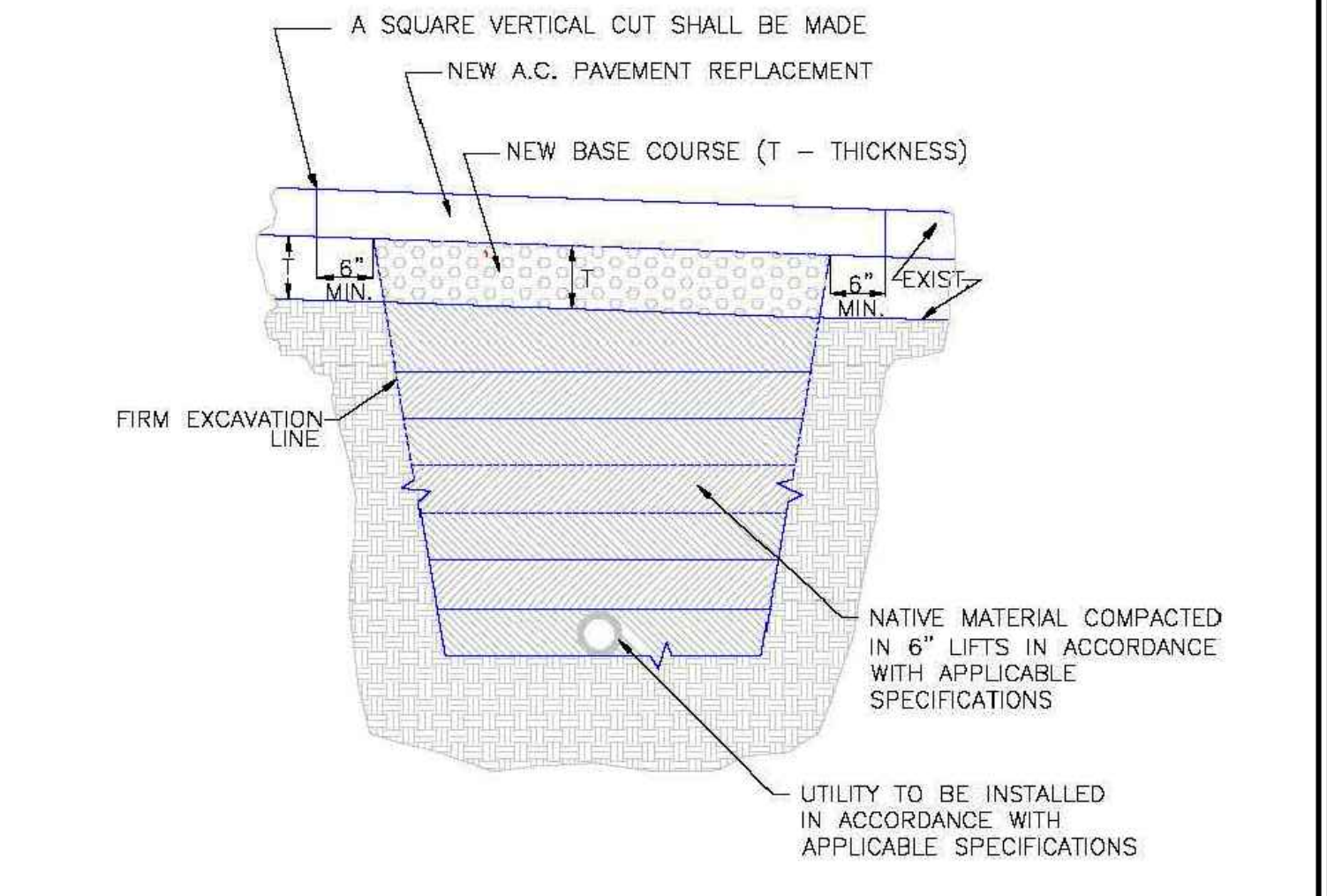
TRIVIEW METROPOLITAN DISTRICT  
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P.O. Box 849  
Monument, CO 80132-8849  
(719) 488-6868 Fax: (719) 488-6565



2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES [DETAIL A 1-7]

**2-INCH AIR AND VACUUM VALVE STATION**  
DETAIL 33

TRIVIEW METROPOLITAN DISTRICT  
174 N. Washington Street Suite C  
P.O. Box 849  
Monument, CO 80132-8849  
(719) 488-6868 Fax: (719) 488-6565



- NOTES:
1. THIS DETAIL MAY BE USED FOR PAVEMENT CUTS LESS THAN 200 SQ. FT.
  2. EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY IN CONJUNCTION WITH TRENCHING.
  3. A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
  4. THICKNESS OF NEW A.C. PAVEMENT REPLACEMENT SHALL MATCH EXISTING (4" MIN.).
  5. THICKNESS OF NEW BASE COURSE SHALL BE MINIMUM OF 6" OR EQUAL TO EXISTING, WHICHEVER IS GREATER.
- SCALE: NOT TO SCALE

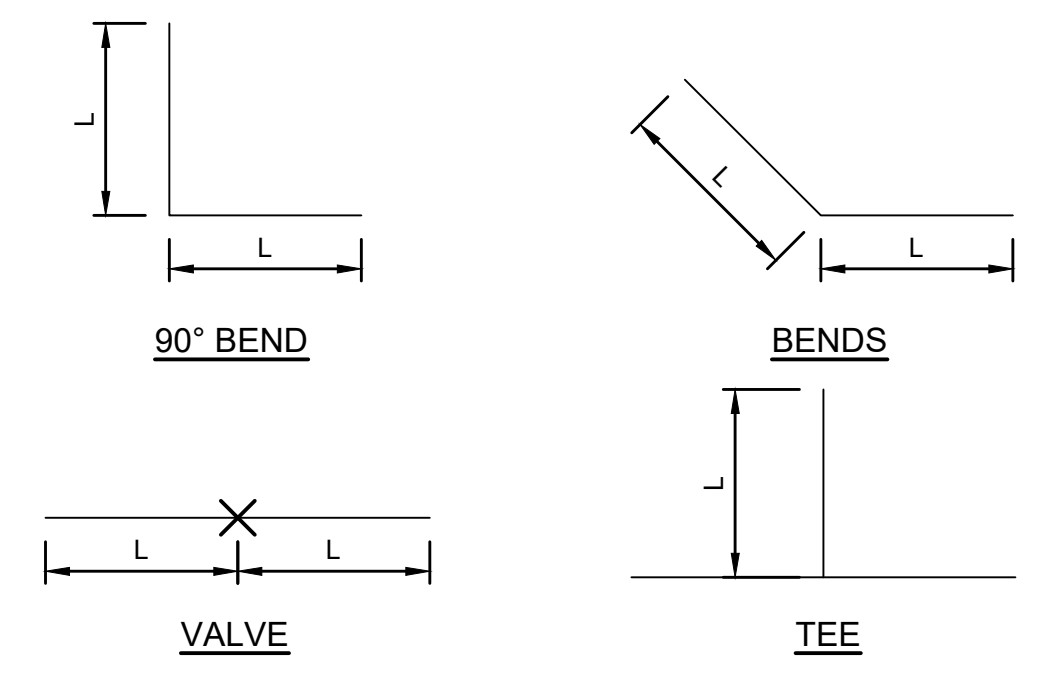
DATE APPROVED: 8/11/11

Utility Trench Repair Detail  
Asphalt Pavement  
Standard Drawing

André P. Brackin  
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/10/04  
FILE NAME: SD\_4-20

- NOTES
1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
  2. D = DIAMETER, L = LENGTH, G = GRADE OF STEEL, L1 = LENGTH ON SMALL SIDE, L2 = LENGTH ON LARGE SIDE
  3. MINIMUM 5.5' GROUND COVER REQUIRED.
  4. BASED ON 150 PSI WORKING PRESSURE, FOR L AND PRESSURES LISTED ON DETAIL 4b OF THE "TOWN OF MONUMENT & TRIVIEW METROPOLITAN DISTRICT WATER UTILITY POLICIES AND STANDARDS".
  5. MS = MILD STEEL ROD ASTM A36
  6. HS = HIGH STRENGTH ROD ASTM A193 GRADE B7.
  7. NUTS SHALL BE ASTM A307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL BE ASTM A194, GRADE 2H.
  8. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
  9. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
  10. 12-INCH AND SMALLER IN-LINE VALVES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE.
  11. A SECOND VALVE WILL BE REQUIRED TO BE CLOSED WHEN EXCAVATING NEXT TO AN EXISTING VALVE.
  12. ON ALL BENDS, THRUST BLOCKS SHALL BE USED IN ADDITION TO RESTRAINT.
  13. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS, THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE, NOT THE SIZE OF THE VALVE.



ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE

PIPE SIZE	6"			8"			12"		
	D	L	G	D	L	G	D	L	G
90° BEND	N/A	N/A	N/A	3/4"	60'	MS	3/4"	86'	HS
45° BEND	N/A	N/A	N/A	3/4"	18'	MS	3/4"	25'	HS
22.5° BEND	N/A	N/A	N/A	3/4"	5'	MS	N/A	N/A	N/A
11.25° BEND	N/A	N/A	N/A	3/4"	1'	MS	N/A	N/A	N/A
VALVE/TEE	3/4"	45'	MS	3/4"	60'	MS	N/A	N/A	N/A

LENGTH OF RESTRAINED PIPE  
SCALE: N.T.S.

NO.	REVISIONS	BY	DATE	APPROVED	APPROVED BY

QA \_\_\_\_\_ QA BY \_\_\_\_\_

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)



**FORSGREN**  
Associates Inc.

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644

MONUMENT WATERLINE & STORAGE TANK

**DETAILS - 2**

PROJECT NO: **04-20-0153**

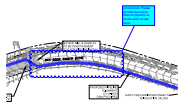
SHEET NO: **24**

DATE: JAN, 2022  
PAGE NO: 24 OF 24



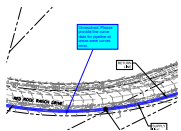
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lpackman (15)



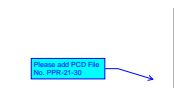
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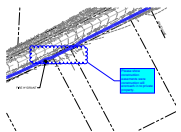
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**Space:**

Unresolved. Please provide line curve data for pipeline at areas were curves exist.



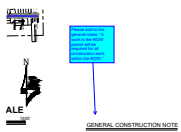
**Author:** lpackman  
**Subject:** Callout  
**Page Label:** 1  
**Date:** 1/26/2022 3:56:08 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please add PCD File No. PPR-21-30



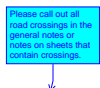
**Author:** lpackman  
**Subject:** Cloud+  
**Page Label:** 6  
**Date:** 1/26/2022 4:04:41 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please show construction easements were construction will encroach in to private property.



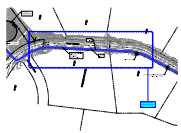
**Author:** lpackman  
**Subject:** Callout  
**Page Label:** 3  
**Date:** 1/26/2022 4:05:27 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please add to the general notes; "A work in the ROW permit will be required for all construction work within the ROW."



**Author:** lpackman  
**Subject:** Callout  
**Page Label:** 3  
**Date:** 1/26/2022 4:27:12 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please call out all road crossings in the general notes or notes on sheets that contain crossings.



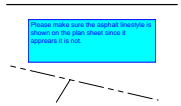
Author: lpackman  
 Subject: Cloud+  
 Page Label: 4  
 Date: 1/26/2022 4:45:17 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Please provide line curve data for water line.



Author: lpackman  
 Subject: Text Box  
 Page Label: 3  
 Date: 1/27/2022 8:03:22 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Staff recommends degree bends be labeled on the plan sheets.



Author: lpackman  
 Subject: Text Box  
 Page Label: 4  
 Date: 1/27/2022 8:24:10 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Please make sure the asphalt linestyle is shown on the plan sheet since it appears it is not.



Author: lpackman  
 Subject: Callout  
 Page Label: 7  
 Date: 1/27/2022 8:37:46 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Please add "on either end" .



Author: lpackman  
 Subject: Callout  
 Page Label: 3  
 Date: 1/27/2022 8:42:37 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Please add the following note:  Construction easements will be required if encroaching into private property during the construction process.

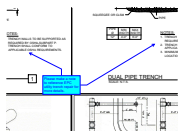
Please show any areas on sheets that will need temporary construction easements.



Author: lpackman  
 Subject: Text Box  
 Page Label: 3  
 Date: 1/27/2022 8:43:52 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

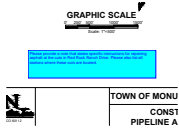
Please provide waterline profiles on each sheet.

Please also provide line curve data on sheets.



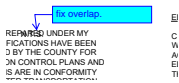
**Author:** lpackman  
**Subject:** Callout  
**Page Label:** 23  
**Date:** 1/27/2022 8:46:35 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please make a note to reference EPC utility trench repair for more details.



**Author:** lpackman  
**Subject:** Text Box  
**Page Label:** 3  
**Date:** 1/27/2022 8:50:01 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please provide a note that states specific instructions for repairing asphalt at the cuts in Red Rock Ranch Drive. Please also list all stations where these cuts are located.



**Author:** lpackman  
**Subject:** Callout  
**Page Label:** 1  
**Date:** 1/27/2022 8:59:56 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

fix overlap.