





City of Thornton	PIF	PEL	
		GENER	ΔΙΓ
	Sheet Number	Sheet Title	
	1	G001	COVE
-LETTER OR	2	G002	INDE
ONE OR TWO CHARACTER / NUMBER DESIGNATOR	3	G003	GENE
DISCIPLINE DESIGNATOR (MAY NOT BE PRESENT IF	4	G004	OVEF
CALLOUT AND TITLE ARE ON DRAWINGS WITHIN THE SAME DISCIPLINE) — DRAWING SEQUENCE NUMBER INDICATES WHERE TITLE IS LOCATED (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON THE SAME		CIVIL	. DR
DRAWING)	Sheet Number	Sheet Title	Shee
SECTION, DETAIL, AND ELEVATION	5	PP001	SITE TO S
SYMBOL IDENTIFIERS	6	PP002	SITE STRE
	7	PP003	SITE STRE
A FP001 FP001	8	PP004	SITE STRE
	9	PP005	SITE 00+0
SECTION CALLOUT EXAMPLE	10	PP006	SITE
	11	PP007	SITE TO S
	12	PP008	STIE 5+00
$\sim \sqrt{7}$	13	PP009	SITE 5+00
FP001	14	PP010	SITE 10+00
DETAIL CALLOUT EXAMPLE	15	PP011	SITE 15+00
В	16	PP012	SITE 19.33
A001	17	PP013	SITE TO S
ELEVATION CALLOUT EXAMPLE	18	PP014	SITE STA.
THE WORD "SECTION" MAY BE REPLACED WITH "ELEVATION" OR "DETAIL" SECTION SECTION, DETAIL, OR ELEVATION TITLE EXAMPLE SECTION, DETAIL, AND ELEVATION IDENTIFICATION SYSTEM			
no. date by ckd description			
0 02/20/24 RSB KGL ISSUED FOR BID			
Z:\CLIENTS\WTR\THORNTONCO\154303_2022-2024REHAB\DESIGN\CADD\CIVIL\PROD_DWGS\GENERAL_DRAV	N/INC 6\45 4202 - 0000 B\4		

# **City of Thornton IE REHABILITATION PROJECT PROJECT NO. 24-196 ISSUED FOR BID**

# DRAWINGS

Sheet Description
VER SHEET
EX AND LEGEND
NERAL NOTES I
ERVIEW MAP & SURVEY CONTROL

## AWINGS

et Description

- #1 BELLAIRE COURT STA. 00+00 STA. 2+19.01
- #2 107TH PLACE & CLERMONT
- EET STA. 00+00 TO STA. 3+26.94 #3 123RD AVE & JASMINE
- EET STA. 00+00 TO STA. 8+00
- #3 123RD AVE & JASMINE
- EET STA. 8+00 TO STA. 13+12.50 E \$4 COLUMBINE COURT STA.
- 00 TO STA. 2+09.21
- #4 COLUMBINE COURT STA.
- 0 TO STA. 2+45.84 #5 E. 107TH PLACE STA. 00+00
- STA. 5+00 #5 E. 107TH AVE PLACE STA.
- ) TO STA. 9+65.45 #6 96TH WAY STA. 00+00 TO STA.
- #6 96TH WAY STA. 5+00 TO STA.
- #6 96TH WAY STA. 10+00 TO STA.
- #6 96TH WAY STA. 15+00 TO STA. 10
- #7 E. MOON COURT STA. 00+00 STA. 2+59.30
- #8 FAIRFAX WAY STA. 00+00 TO 4+42.54

# **DETAIL DRAWINGS**

Sheet Number	Sheet Title	Sheet Description
19	PD001	CIVIL DETAILS I
20	PD002	CIVIL DETAILS II
21	PD003	CIVIL DETAILS III
22	PD004	CIVIL DETAILS IV
23	PD005	ROADWAY DETAILS I
24	PD006	ROADWAY DETAILS II
25	PD007	CONNECTION DETAILS I
26	PD008	CONNECTION DETAILS II
27	PD009	CONNECTION DETAILS III
28	PD010	CONNECTION DETAILS IV
29	PD011	CONNECTION DETAILS V
30	PD012	EROSION AND SEDIMENT CONTROL

# **EROSION & SEDIMENT CONTROL DRAWINGS**

Sheet Number	Sheet Title	Sheet Description
31	EC-G001	COVER SHEET
32	EC-G002	DRAWING LEGEND AND GENERAL NOTES
33	EC003	SITE #1 STA. 00+00 TO STA. 2+19 SITE #2 STA. 00+00 TO STA. 3+27
34	EC004	SITE #3 STA. 00+00 TO STA. 10+50 SITE #3 STA. 10+50 TO STA. 20+50
35	EC005	SITE #4 STA. 00+00 TO STA. 2+09 SITE #4 STA. 00+00 TO STA. 2+46
36	EC006	SITE #5 STA. 00+00 TO STA. 4+50 SITE #5 STA. 4+50 TO STA. 9+58
37	EC007	SITE #6 STA. 00+00 TO STA. 5+00 SITE #6 STA. 5+00 TO STA. 10+00
38	EC008	SITE #6 STA. 10+00 TO STA. 15+50 SITE #6 STA. 15+50 TO STA. 19+28
39	EC009	SITE #7 STA. 00+00 TO STA. 2+73 SITE #8 STA. 00+00 TO STA. 4+43

	SECTION
$\mathbf{Y}$	PROJECT CONTROL POINT
	PIN
ب س	EXISTING POWER POLE
2	
•	
¢	EXISTING LIGHT POLE
ER	EXISTING ELECTRICAL BOX
<b>(W)</b>	EXISTING WATER MANHOLE
<b>M</b>	EXISTING WATER METER
$\odot$	EXISTING WELL
$\bowtie$	EXISTING WATER VALVE
1	EXISTING FIRE HYDRANT
S	EXISTING SANITARY SEWER MANHOLE
ଶ୍ଚ	EXISTING STORM SEWER MANHOLE
	EXISTING UNIDENTIFIED MANHOLE
TR	EXISTING TELEPHONE PEDESTAL
GM	EXISTING GAS METER
Š	EXISTING GAS VALVE
-0-	SIGN AS DESIGNATED

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City of Thornton 2022-2024 Pipeline Rehabilitation Thornton Project No. 24-196 BMcD Project No. 154303

# LIMITS OF CONCRETE REMOVAL AND REPLACEMENT Index

EXISTING TREE DIA. AND DRIP LINE (e.g. D16 15)

			CENTER OF DITCH
			EXISTING ROAD CENTERLINE
<b></b> st s		-st s	EXISTING STORM LINE
	ss		EXISTING SEWER LINE
· .	— — G —		EXISTING GAS LINE
	T <b></b>	- T <b></b>	EXISTING TELEPHONE
01	E	- OE	EXISTING OVERHEAD ELECTRIC
— UE	E <b>———</b> —	- UE <b></b>	EXISTING UNDERGROUND ELECTRICAL
— — — F(	0	-F0	EXISTING FIBER OPTIC
	xx		EXISTING BARBED WIRE FENCE
	×	×	EXISTING FENCE LINE (OTHER)
=	RR <b>————</b>	IRR <b>——</b> —	EXISTING IRRIGATION LINES
			EXISTING WATERLINE
			PROPOSED WATERLINE
	<b></b> P	P/E	PROPOSED PERMANENT EASEMENT
T/E	<u>-</u> 1	T/E	PROPOSED TEMPORARY EASEMENT
			FLOODPLAIN EXTENTS
			WETLANDS
o	_o	•	PROPOSED PERMANENT FENCE
— LOC —	LOC -	LOC	PROPOSED LIMITS OF CONSTRUCTION
			TEMPORARY LIVESTOCK FENCE
	— W(M)		EXISTING WATER LINE (MAPPED)
	- G(M)		EXISTING GAS LINE (MAPPED)
	- ST(M)		EXISTING STORM LINE (MAPPED)
	– FO(м)		EXISTING FIBER OPTIC (MAPPED)
	- SS(M)		EXISTING SANITARY SEWER LINE (MAPPED)

CONTROL POINT

GEOTECHNICAL HOLE LOCATION

IRRIGATION VALVE

TEST HOLE

S් BOLLARDS

GATE VALVE

CUT OF WALL

REDUCER

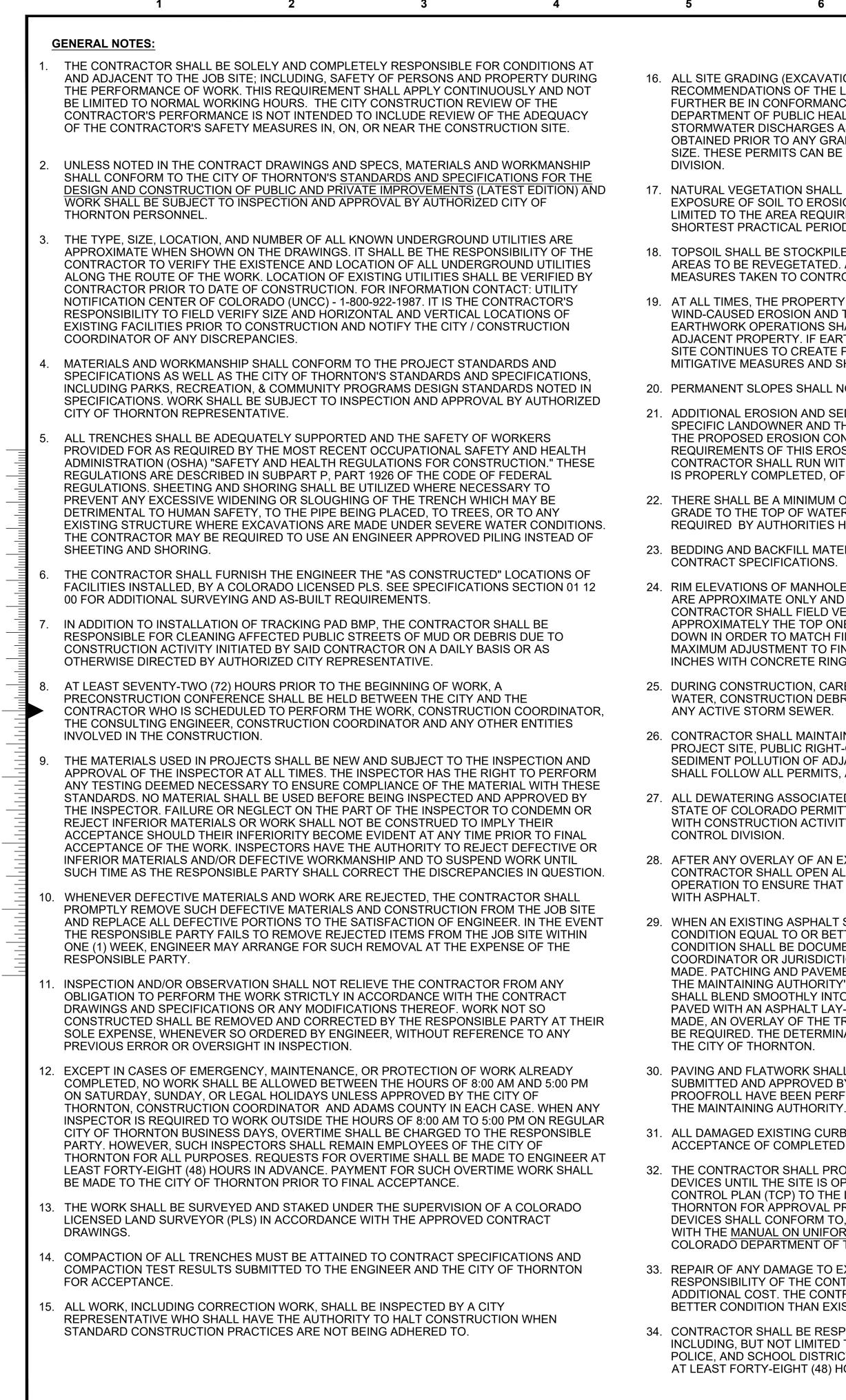
METER BOX

O-BLOWOFF ASSEMBLY

C PROPOSED FIRE HYDRANT

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	LEGEND:
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	INTERMEDIATE COUNTOUR (1' INTERVAL)
	SECTION LINE
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R/WR/W	RIGHT OF WAY
	EXISTING EASEMENT
	FLOWLINE OF DITCH
	CENTER OF DITCH
	EXISTING ROAD CENTERLINE
——————————————————————————————————————	EXISTING STORM LINE
	EXISTING SEWER LINE
	EXISTING GAS LINE
	EXISTING TELEPHONE
0E	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING FIBER OPTIC
	EXISTING BARBED WIRE FENCE
	EXISTING FENCE LINE (OTHER)
	EXISTING IRRIGATION LINES
	PROPOSED WATERLINE
	PROPOSED PERMANENT EASEMENT
	PROPOSED TEMPORARY EASEMENT
	FLOODPLAIN EXTENTS
	WETLANDS
oo	PROPOSED PERMANENT FENCE
LOC LOC LOC LOC	PROPOSED LIMITS OF CONSTRUCTION
	TEMPORARY LIVESTOCK FENCE
	EXISTING WATER LINE (MAPPED)
	EXISTING GAS LINE (MAPPED)
ST(m)	EXISTING STORM LINE (MAPPED)



6	7	8	9	10	11

16. ALL SITE GRADING (EXCAVATION, EMBANKMENT, AND COMPACTION) SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST SOILS INVESTIGATION FOR THIS PROJECT AND SHALL FURTHER BE IN CONFORMANCE WITH THE CONTRACT SPECIFICATIONS. A COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHALL BE OBTAINED PRIOR TO ANY GRADING BEING PERFORMED ON SITES ONE (1) ACRE OR LARGER IN SIZE. THESE PERMITS CAN BE OBTAINED FROM THE STATE WATER QUALITY CONTROL

17. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATION AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.

18. TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICABLE ON THE SITE FOR USE ON AREAS TO BE REVEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROPER MEASURES TAKEN TO CONTROL EROSION AND SEDIMENT MOVEMENT.

19. AT ALL TIMES, THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND-CAUSED EROSION AND TO INSURE THE HEALTH OF EXISTING VEGETATION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE CONTRACTOR SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.

20. PERMANENT SLOPES SHALL NOT EXCEED 4:1 (H:V) IN AREAS TO BE SEEDED OR SODDED.

21. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE SPECIFIC LANDOWNER AND THEIR AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PROPOSED EROSION CONTROL MEASURES DO NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS EROSION CONTROL PLAN AND THE OBLIGATION OF THE CONTRACTOR SHALL RUN WITH THE LAND UNTIL SUCH TIME AS THE EROSION CONTROL PLAN IS PROPERLY COMPLETED, OFFICIALLY MODIFIED, OR VOIDED.

22. THERE SHALL BE A MINIMUM OF FOUR AND ONE-HALF (4.5) FEET OF COVER FROM FINISHED GRADE TO THE TOP OF WATER LINES EXCEPT WHERE DEEPER INSTALLATIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE LAND.

23. BEDDING AND BACKFILL MATERIALS FOR THE WATER LINES SHALL CONFORM TO THE CONTRACT SPECIFICATIONS.

24. RIM ELEVATIONS OF MANHOLES AND VAULTS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PIPELINE CONTRACTOR SHALL FIELD VERIFY RIM ELEVATIONS AND WHERE POSSIBLE ALLOW APPROXIMATELY THE TOP ONE (1) FOOT OF RIM ELEVATION TO BE ADJUSTED EITHER UP OR DOWN IN ORDER TO MATCH FINISHED GRADE OR FINAL PAVEMENT ELEVATION(S). THE MAXIMUM ADJUSTMENT TO FINAL GRADE OR FINAL PAVEMENT ELEVATION(S) IS TWELVE (12) INCHES WITH CONCRETE RINGS.

25. DURING CONSTRUCTION, CARE MUST BE TAKEN TO AVOID ANY GROUNDWATER, STORM WATER, CONSTRUCTION DEBRIS, SOIL, OR ANY OTHER FOREIGN MATERIALS FROM ENTERING ANY ACTIVE STORM SEWER.

26. CONTRACTOR SHALL MAINTAIN EROSION AND WATER CONTROL MEASURES TO PROTECT THE PROJECT SITE, PUBLIC RIGHT-OF-WAY (ROW), AND PRIVATE PROPERTY, AND SHALL PREVENT SEDIMENT POLLUTION OF ADJACENT WATER COURSES AND PROPERTIES. CONTRACTOR SHALL FOLLOW ALL PERMITS, AS WELL AS LOCAL, STATE, AND FEDERAL CODES.

27. ALL DEWATERING ASSOCIATED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY." FOR INFORMATION, PLEASE CDPHE'S WATER QUALITY CONTROL DIVISION.

28. AFTER ANY OVERLAY OF AN EXISTING ROADWAY, WHERE UTILITIES ARE PRESENT, THE CONTRACTOR SHALL OPEN ALL MANHOLES AND VALVE BOXES FOLLOWING THE PAVING OPERATION TO ENSURE THAT MANHOLE AND VALVES WERE NOT PAVED OVER NOR FILLED WITH ASPHALT.

29. WHEN AN EXISTING ASPHALT STREET IS CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. THE EXISTING STREET CONDITION SHALL BE DOCUMENTED BY THE CITY OF THORNTON'S CONSTRUCTION COORDINATOR OR JURISDICTIONAL AUTHORITY'S REPRESENTATIVE BEFORE ANY CUTS ARE MADE. PATCHING AND PAVEMENT RESTORATION SHALL BE DONE IN CONFORMANCE WITH THE MAINTAINING AUTHORITY'S STANDARDS AND SPECIFICATIONS. THE FINISHED PATCH SHALL BLEND SMOOTHLY INTO THE EXISTING SURFACE. ALL LARGE PATCHES SHALL BE PAVED WITH AN ASPHALT LAY-DOWN MACHINE. IN STREETS WHERE MORE THAN ONE CUT IS MADE, AN OVERLAY OF THE TRAVEL LANE(S) WIDTH, INCLUDING THE PATCHED AREAS, MAY BE REQUIRED. THE DETERMINATION OF NEED FOR A COMPLETE OVERLAY SHALL BE MADE BY THE CITY OF THORNTON.

30. PAVING AND FLATWORK SHALL NOT START UNTIL AN ASPHALT MIX DESIGN HAS BEEN SUBMITTED AND APPROVED BY THE ENGINEER AND SUBGRADE COMPACTION TEST AND PROOFROLL HAVE BEEN PERFORMED AND THE RESULTS HAVE MET WITH THE APPROVAL OF THE MAINTAINING AUTHORITY.

31. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPLACED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.

32. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN PROPER TRAFFIC CONTROL DEVICES UNTIL THE SITE IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (TCP) TO THE LOCAL AUTHORITIES, JURISDICTIONS, AND THE CITY OF THORNTON FOR APPROVAL PRIOR TO CONSTRUCTION. ALL SIGNS, STRIPING, AND CONTROL DEVICES SHALL CONFORM TO, AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND COLORADO DEPARTMENT OF TRANSPORTATION'S (CDOT) M&S STANDARDS, LATEST EDITION.

33. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR TO FULL SATISFACTION OF THE LANDOWNER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION.

34. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE APPROPRIATE ENTITIES, INCLUDING, BUT NOT LIMITED TO, ADAMS COUNTY, SPECIAL UTILITY DISTRICTS AND FIRE, POLICE, AND SCHOOL DISTRICTS, OF ALL STREET CLOSINGS AND SERVICE INTERRUPTIONS AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE INITIATION OF THE INTERRUPTION.

- 35. ANY MONUMENT SET FOR THE PURPOSE OF LOCATING STREET OR PROPERTY SUBDIVISION, OR A PRECISE S PERMANENT SURVEY BENCHMARK, SHALL NOT BE REI BE REMOVED OR DISTURBED WITHOUT FIRST OBTAINI LOCAL AUTHORITY TO DO SO. CONTRACTOR SHALL PA PROPER REPLACEMENT OF SUCH MONUMENT.
- 36. THE CONSTRUCTION WORK SHALL BE PERFORMED AN INTERFERE WITH ACCESS TO FIRE HYDRANTS, FIRE S UNDERGROUND VAULTS, VALVE HOUSING STRUCTUR AS MAY BE DESIGNATED BY THE LOCAL JURISDICTION
- 37. NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILIT WORK MAY AFFECT THEM AT LEAST FORTY-EIGHT (48) DISTURBANCE.

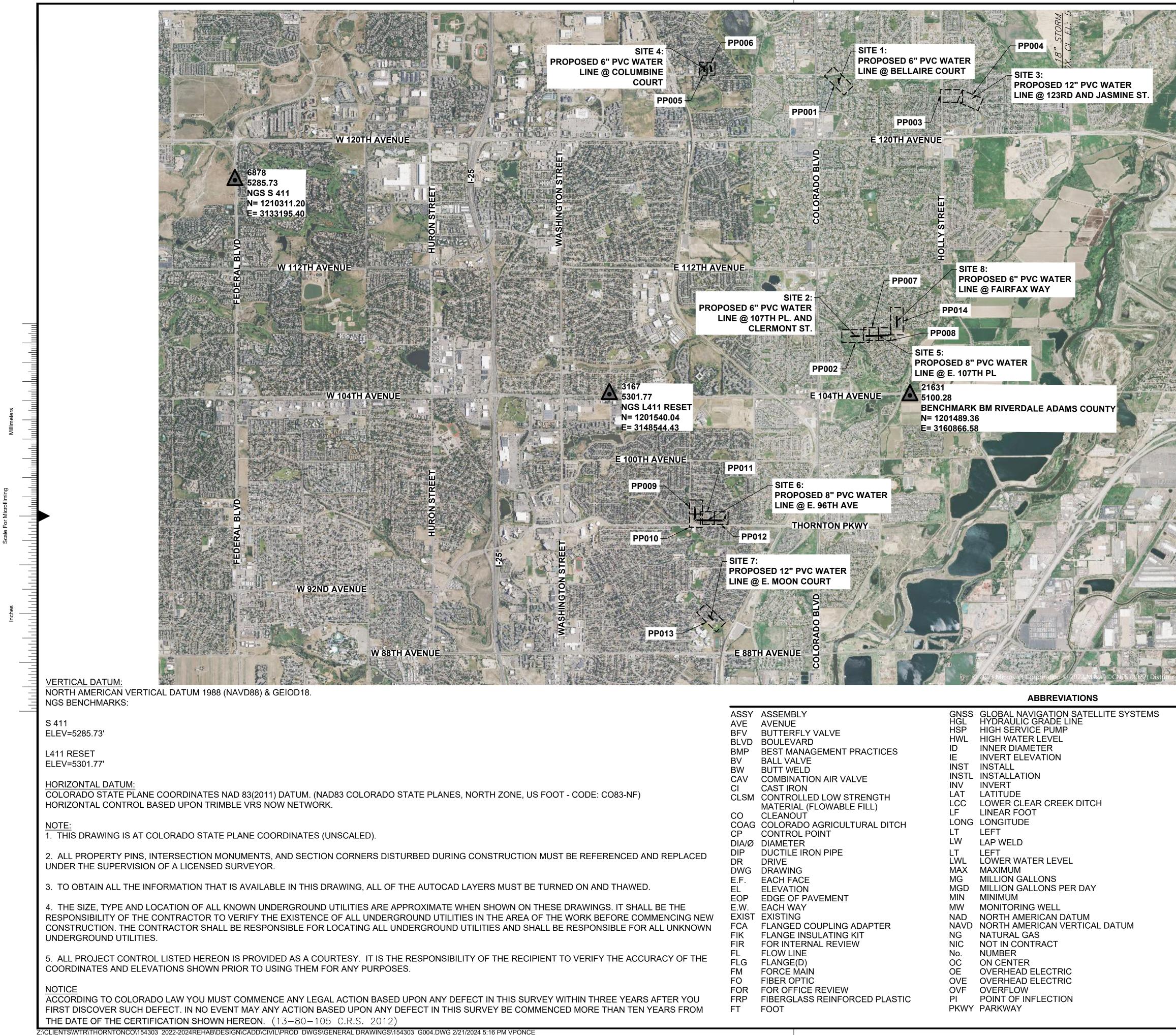
## XCEL ENERGY GENERAL NOTES

- 1. CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATIO 1-800-922-1987 (811 WHEN CALLING WITHIN COLORADO EXCAVATION AROUND PUBLIC SERVICE COMPANY OF
- 2. A PSCo FIELD OPERATOR MUST BE ON SITE DURING TH GRADING, BACKFILL OPERATIONS, COMPACTION, AND WITHIN THE PSCo EASEMENTS AND/OR WITHIN A MININ OUTER LIMITS OF THE LOCATE MARKS FOR THE PSCo
- 3. CONTRACTOR SHALL MAINTAIN A MINIMUM SIX (6) FEE ELECTRIC LINES AND TWENTY (20) FEET FROM OVERH CONSTRUCTING IN PARALLEL.

## **REGIONAL/LOCAL FIRE DEPARTMENT NOTES:**

- 1. CONTRACTOR SHALL NOTIFY ALL AFFECTED REGIONA FULL OR PARTIAL LANE CLOSURES FOR ALL ROAD(S) I
- 2. ACCESS ON AFFECTED ROADWAYS SHALL BE CAPABL DURING CONSTRUCTION TO FACILITATE EMERGENCY
- 3. CODE COMPLIANT ACCESS TO ALL PARTS OF THE PIPI BE CLEARLY IDENTIFIED IN THE EMERGENCY OPERAT CONTRACTOR. PLAN SHALL BE PROVIDED TO AFFECT
- 4. NO ON-SITE FUEL STORAGE SHALL BE PERMITTED. FU WITH THE CURRENT FIRE CODE.

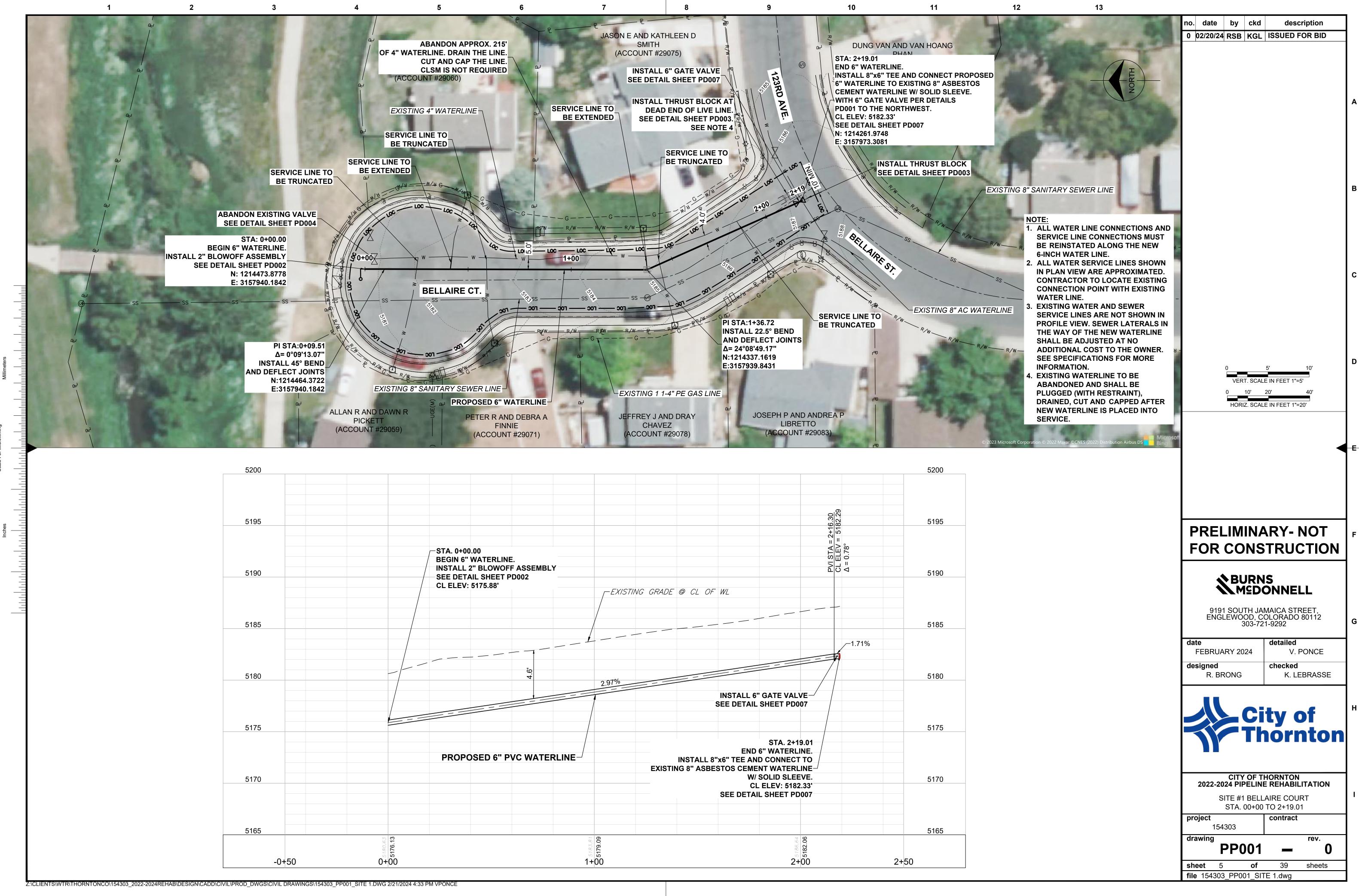
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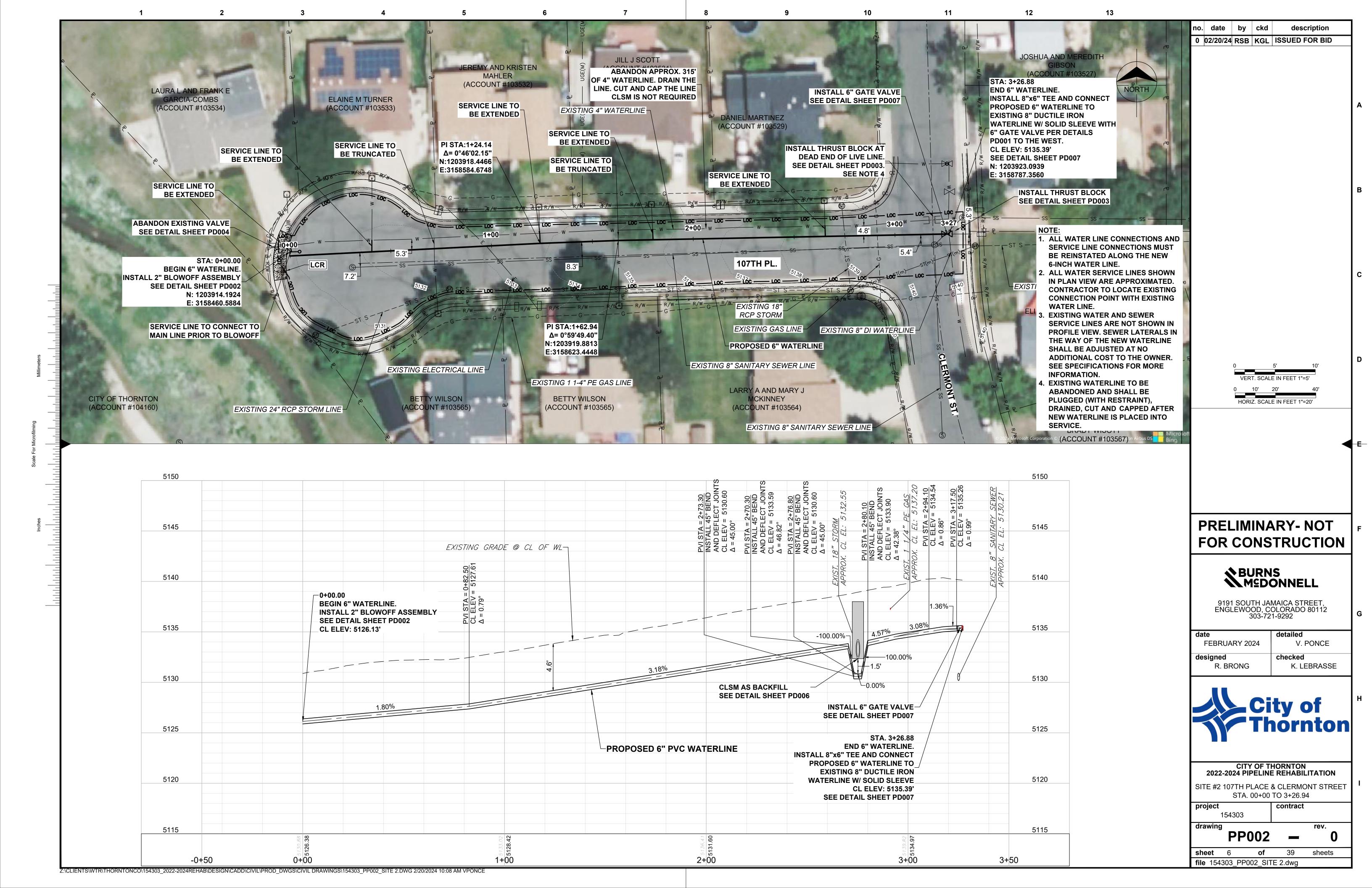


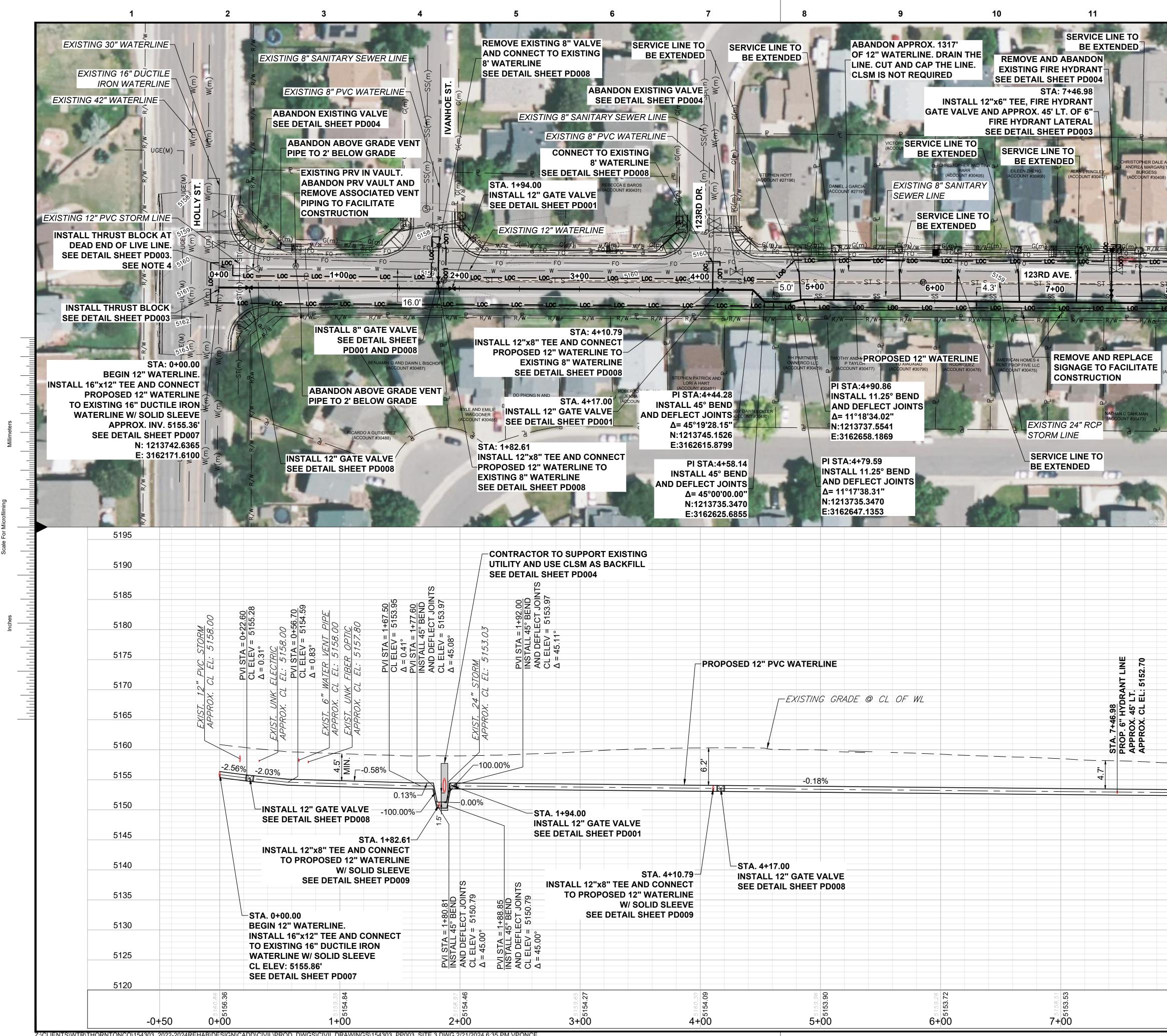
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CODE: CO83-NF)	BFV BLVD BMP BV BW CAV CI CLSM CO COAG CP	BUTTERFLY VALVE BOULEVARD BEST MANAGEMENT PRACTICES BALL VALVE BUTT WELD COMBINATION AIR VALVE CAST IRON CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) CLEANOUT COLORADO AGRICULTURAL DITCH CONTROL POINT	HSP HWL ID IE INST INSTL INV LAT LCC LF LONG LT	INSTALLATION INVERT LATITUDE LOWER CLEAR CREEK DITCH LINEAR FOOT LONGITUDE LEFT
E REFERENCED AND REPLACED	DIA/Ø DIP DR DWG	DIAMETER DUCTILE IRON PIPE DRIVE DRAWING	LW LT LWL MAX	LAP WELD LEFT LOWER WATER LEVEL MAXIMUM
O ON AND THAWED.	E.F. EL EOP	EACH FACE ELEVATION EDGE OF PAVEMENT	MG MGD MIN	MILLION GALLONS MILLION GALLONS PER DAY MINIMUM
RAWINGS. IT SHALL BE THE /ORK BEFORE COMMENCING NEW RESPONSIBLE FOR ALL UNKNOWN	E.W. EXIST FCA FIK FIR	DIAMETER DUCTILE IRON PIPE DRIVE DRAWING EACH FACE ELEVATION EDGE OF PAVEMENT EACH WAY EXISTING FLANGED COUPLING ADAPTER FLANGE INSULATING KIT FOR INTERNAL REVIEW FLOW LINE FLANGE(D) FORCE MAIN FIBER OPTIC	MW NAD NAVD NG NIC	MONITORING WELL NORTH AMERICAN DATUM
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HIN THREE YEARS AFTER YOU MORE THAN TEN YEARS FROM	FRP FT	FIBERGLASS REINFORCED PLASTIC FOOT	ΡI	POINT OF INFLECTION PARKWAY

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PROP PROPOSED PS PIPE SUPPORT PV PLUG VALVE			303-72		G
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PW POTABLE WATER RD ROAD RED REDUCER	designed R. E	BRONG		checked K. LEBRASSE	
ROW RIGHT OF WAY RT RIGHT					1
RTD REGIONAL TRANSPORTATION DISTRICT R/W RIGHT OF WAY RW RAW WATER LINE			Ci	ty of	н
SAN SANITARY SEWER SCH SCHEDULE			Tŀ	ty of Iornton	
SPCS STATE PLANE COORDINATE SYSTEMS SQ SQUARE SST STAINLESS STEEL					
ST STREET STA STATION				HORNTON	
STL STEEL SWLK SIDEWALK TBD TO BE DETERMINED	2022-2	2024 PIF	PELINI	E REHABILITATION	.
TBR TO BE REMOVED TBX TELEPHONE BOX	<b>p</b> p = 1 < 1			W MAP & CONTROL	
TEMP TEMPORARY TOW TOP OF WALL TWTS TRACER WIRE TEST STATION		54303		contract	
UGE UNDERGROUND ELECTRIC UGT UNDERGROUND TELEPHONE	drawing	G0	04	- <b>0</b>	
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C CONSTRUCTION WORK ON SITE 3 WITTERLINE, AS SHOWN. 6. CONSTRUCTION WORK ON SITE 3 WITTER SUMMER (MAY 30 - AUGUST 14.) MORTHS WHILE SCHOOL IS ON BREAK. 7. REDUCE TRENCH WIDTH TO A MAXIMUM OF 5 FT FROM STA. 4+50 TO 8. CONTRACTOR TO PROTECT TREE CONSTRUCTION AND TRENCH WIDTH. 9. PAVEMENT MARKINGS FOR SITE 3 SHOULD COMPORE TO CONSTRUCTION 627.06 (CURRENT EDITION). 51195 51190 51195 51100 51195 5120 700 TO TO TO TO TO TO TO TO TO TO	5158	F( 5.	SERVICE BE BETW WATERLI CONTRA	LINE /EEN INE C CTOF	7-1 ON R TC	0' DE NEC1 ) EXC	EEP A FION. CAVA	TE	STING										
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_		-	5175	$\begin{array}{c c} TA = 8+: \\ TA = 8+: \\ EV = 5 \\ 27^{\circ} = 5 \\ 155.00 \\ 00^{\circ} = 0.09^{\circ} \\ 155.00 \\ 155.00 \\ 00^{\circ} \\ 155.00 \\ 00^{\circ} \\ 100^{\circ} \\$
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		-	5155	
		-	5150	-1.56%-
		-	5145	-100.00%
		-	5140	SEE DETAIL SHEET PD006
		-	5135	STA. 10+
			5130	Holi Tage       PVI STA         PVI STA       PVI STA         PVI STA       PVI STA         PVI STA       0.06°         A = 0.06° $\Delta$ = 0.06°         A = 0.32°       10+15.27         A = 0.32°       10+15.27         A = 5147.89       1140+15.27         B = 5147.89       1140+15.27         A = 5147.89       1140+15.27
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EXISTING 8" SANITARY SEWER LINE

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7

REMOVE AND ABANDON AR **EXISTING FIRE HYDRANT** REE DETAIL SHEET PD004 STA: 11+23.93 INSTALL 12"x6" TEE, FIRE HYDRANT GATE VALVE AND APPROX. 42' LT. OF 6" FIRE HYDRANT LATERAL SEE DETAIL SHEET PD003

12+00

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-M/8 R - M/8 R

EL≶C

EXISTING 8" PVC WATERLINE

ACCOUNT #30

10

PI STA:13+07.50 INSTALL 45° BEND AND DEFLECT JOINTS Δ= 45°56'17.58" N:1213612.1800 E:3163443.1085

JASMINE ST

11

PI STA:12+35.25 **INSTALL 11.25° BEND** AND DEFLECT JOINTS Δ= 13°33'41.65" N:1213641.7855 E:3163382.2050

PI STA:10+80.61 **INSTALL 11.25° BEND** AND DEFLECT JOINTS Δ= 11°42'25.10" N:1213714.7620 E:3163245.8674

STA. 10+76.38 -INSTALL 12" GATE VALVE SEE DETAIL SHEET PD001

1317' DRAIN THE THE LINE. RED

STA: 10+72.11 INSTALL 12"x8" TEE AND CONNECT PROPOSED 12" WATERLINE TO EXISTING 8" WATERLINE SEE DETAIL SHEET PD008

STA: 13+12.50 END 12" WATERLINE INSTALL 12"x8" TEE AND CONNECT PROPOSED 12" WATERLINE TO EXISTING 12" WATERLINE AND EXISTING 8" WATERLINE WITH SOLID SLEEVE SEE DETAIL SHEET PD009

MY B R

EXISTING 12" WATERLINE

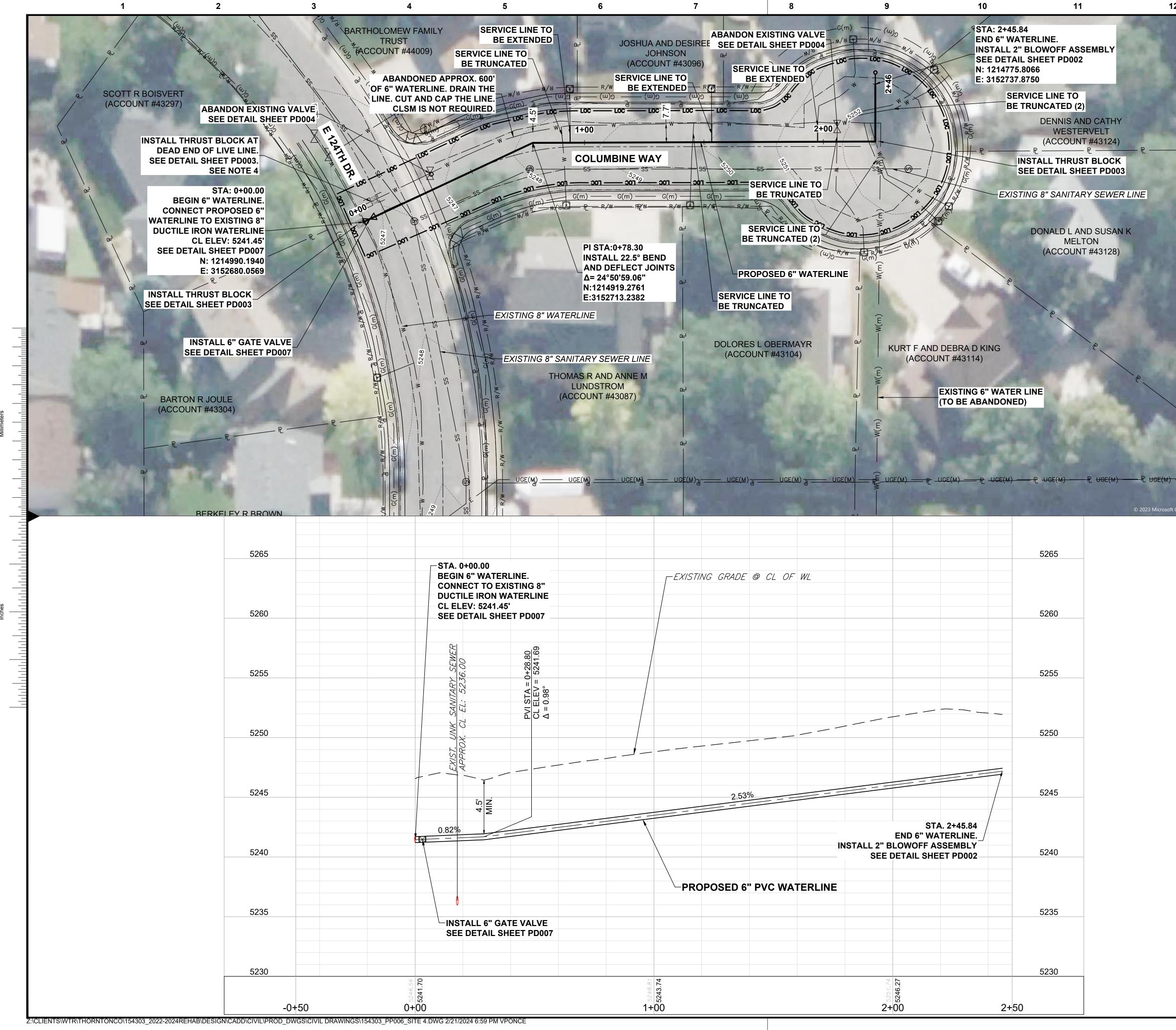
PI STA:12+79.98 INSTALL 45° BEND AND DEFLECT JOINTS Δ= 42°03'18.50" N:1213612.0190 E:3163415.5907

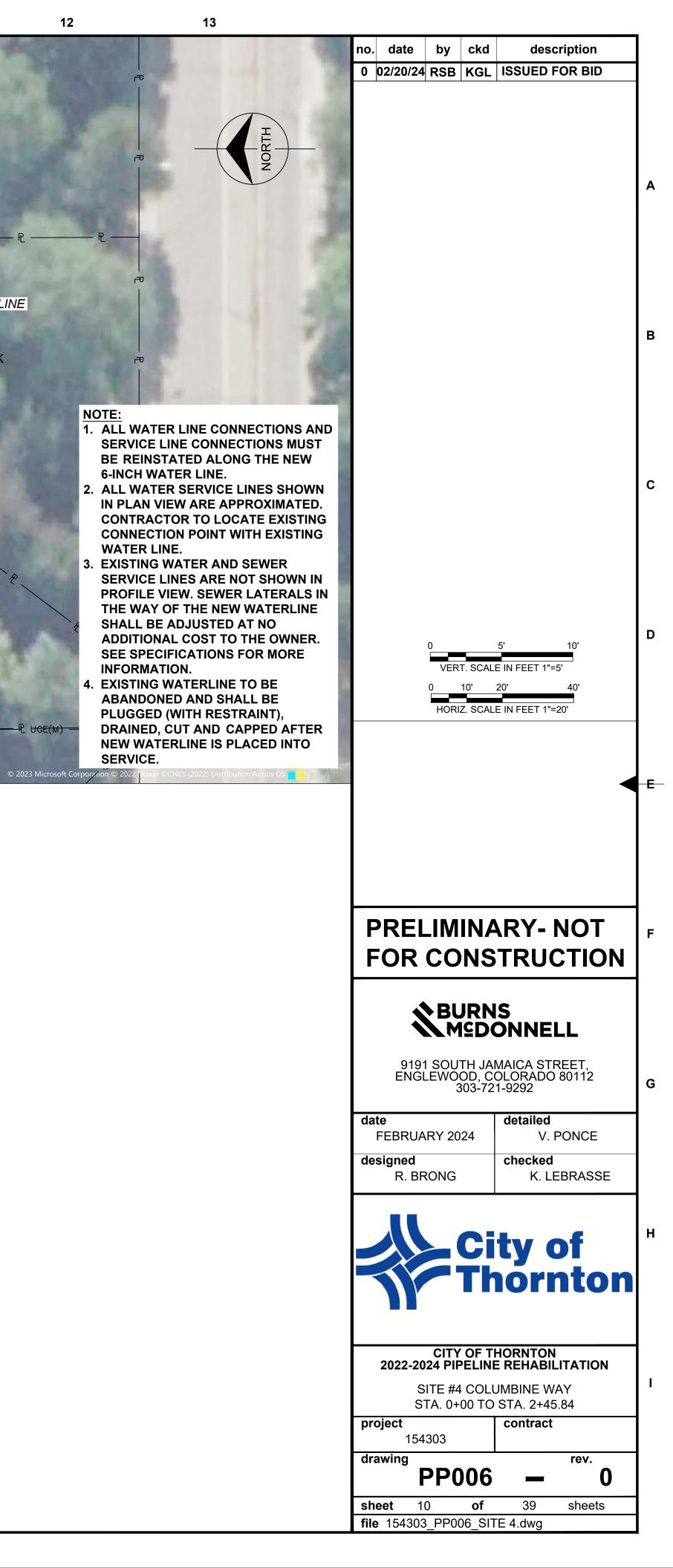
EXISTING GRADE @ CL OF WL STA. 10+72.03 INSTALL 12"x8" TEE AND CONNECT 40 93 TO PROPOSED 12" WATERLINE PVI STA = 13+09.4CL ELEV = 5159.6  $\Delta = 0.87^{\circ}$ W/ SOLID SLEEVE SEE DETAIL SHEET PD009 NT LINE 5152.47 RM · 5 STA. 11+23.80 PROP. 6" HYDRANT L APPROX. 42' LT. APPROX. CL EL: 5152 24" STOR \_\_5.38% STA. 13+12.50 END 12" WATERLINE. INSTALL 12"x8" TEE AND CONNECT PROPOSED 12" WATERLINE AND -PROPOSED 12" PVC WATERLINE **EXISTING 8" WATERLINE** WITH SOLID SLEEVE CL ELEV: 5160.09' SEE DETAIL SHEET PD009 STA. 10+76.62 INSTALL 12" GATE VALVE SEE DETAIL SHEET PD001 -CLSM AS BACKFILL SEE DETAIL SHEET PD006 8 ند 11+00 12+00 13+00 15+00 14+00

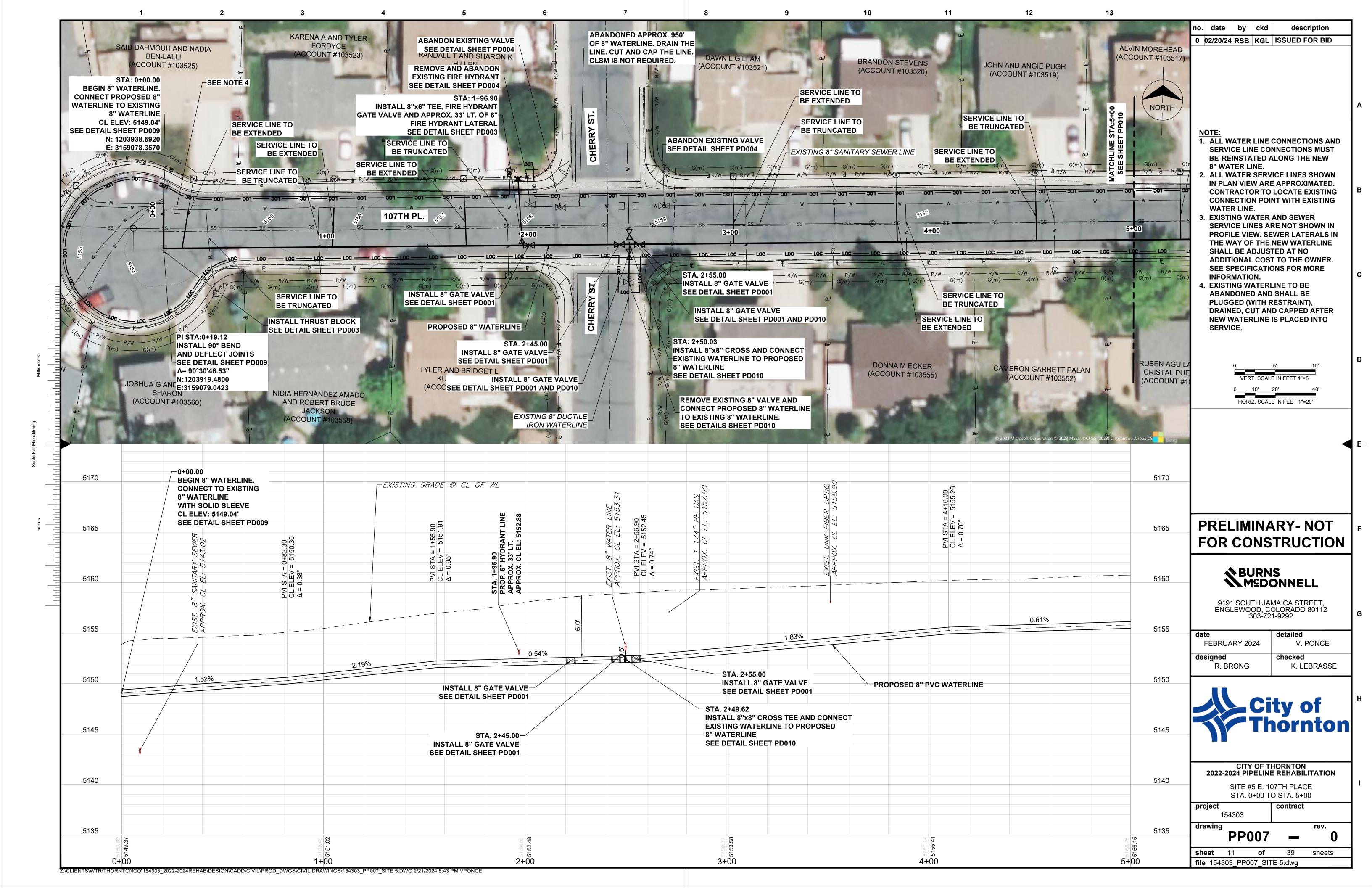
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	c(m)	102	14.3							A
4	NOTE: 1. ALL WATER L	-								
- AL	SERVICE LINE BE REINSTAT WATER LINE.	ED ALONG T	HE NEW 12"							
A. A	2. ALL WATER S IN PLAN VIEW CONTRACTO	ARE APPRO	XIMATED.							В
	CONNECTION WATER LINE.									
S.		OT SHOWN IN	VER SERVICE I PROFILE VIEW. WAY OF THE							
16		IONAL COST	TO THE OWNER.							
51	SEE SPECIFIC INFORMATION 4. EXISTING WA	۷.		1						c
	ABANDONED (WITH RESTR CAPPED AFTI	AINT), DRAIN	•							
	PLACED INTO 5. SERVICE LINE	SERVICE.	_							
	BE BETWEEN WATERLINE ( TO EXCAVAT	CONNECTION	. CONTRACTOR							
R.	SERVICE LINE PROPOSED W	E DEPTH EQU /ATERLINE, A	IAL TO THAT OF AS SHOWN.							
69	6. CONSTRUCTI BE PERFORM MONTHS (MA)	ED DURING 1	THE SUMMER			0 VER	T. SCALE	5' E IN FEET 1"=5'	10'	
	SCHOOL IS O 7. PAVEMENT M	N BREAK.						40' E IN FEET 1"=4	80'	
R	SPECIFICATIO	ONS FOR ROA	OT STANDARD AD AND BRIDGE				Z. SCAL			_
-	CONSTRUCTI EDITION).	ON 627.06 (CI	URRENT	CR12						
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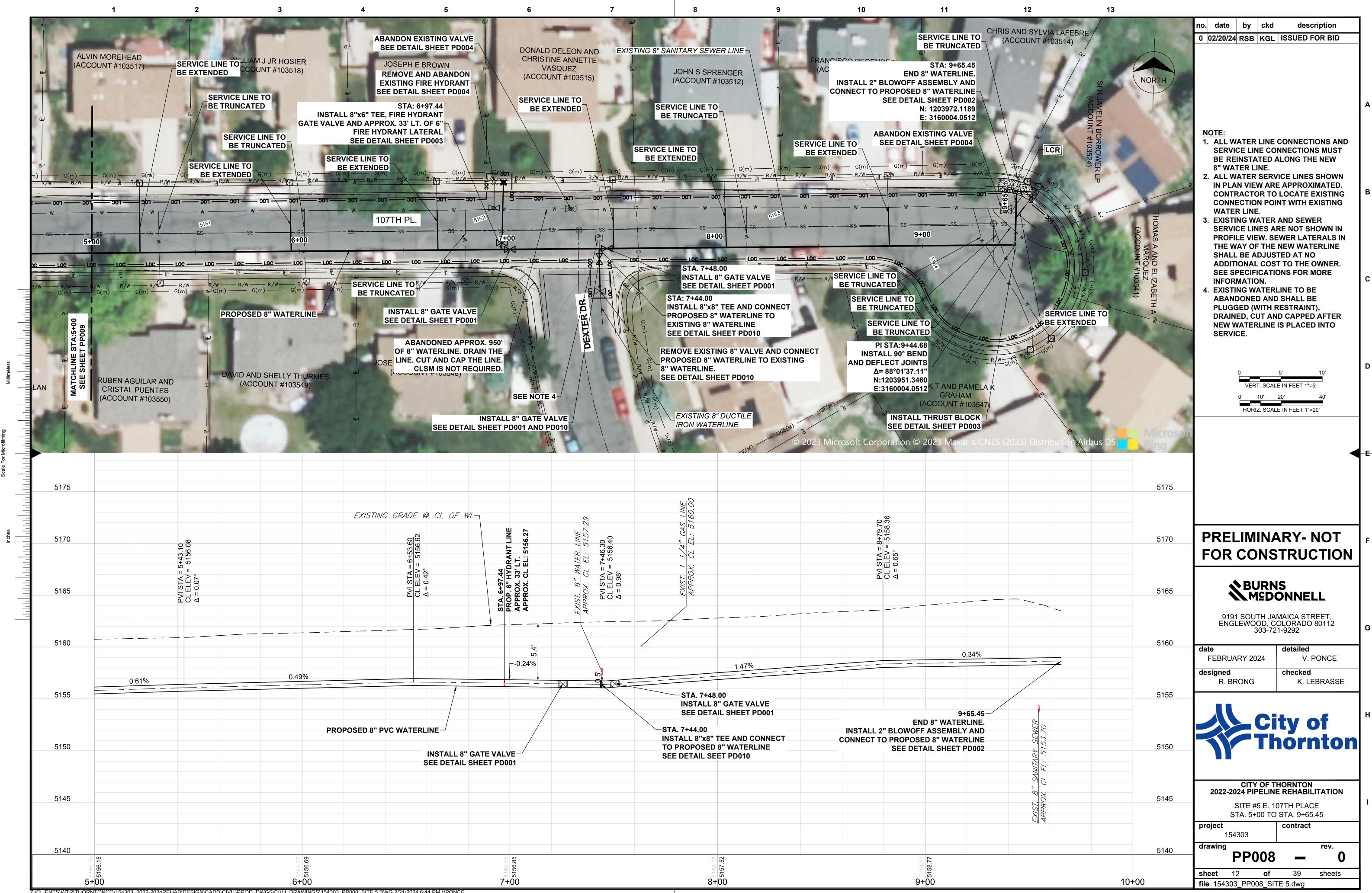


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1000	IN PLAN VIEW ARE APPROXIMATED. CONTRACTOR TO LOCATE EXISTING			
	CONNECTION POINT WITH EXISTING			
	WATER LINE. 3. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN			
100	PROFILE VIEW. SEWER LATERALS IN			
FLOREN	THE WAY OF THE NEW WATERLINE SHALL BE ADJUSTED AT NO			D
NO #43133)	ADDITIONAL COST TO THE OWNER. SEE SPECIFICATIONS FOR MORE		5' 10' LE IN FEET 1"=5'	
	INFORMATION. 4. EXISTING WATERLINE TO BE	0 10'	20' 40'	
2.3	ABANDONED AND SHALL BE PLUGGED (WITH RESTRAINT),	HORIZ. SCA	LE IN FEET 1"=20'	
	DRAINED, CUT AND CAPPED AFTER NEW WATERLINE IS PLACED INTO			
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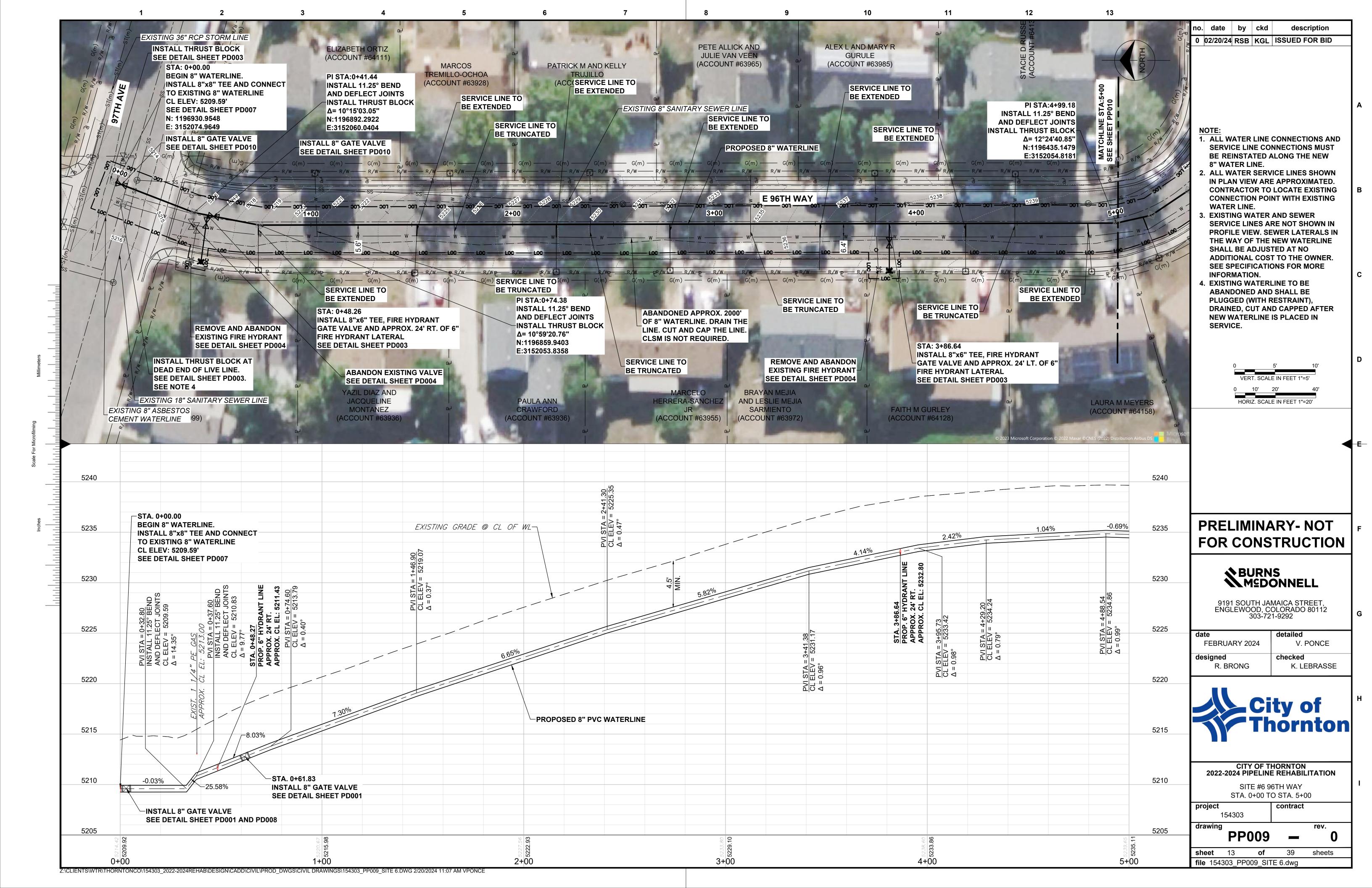






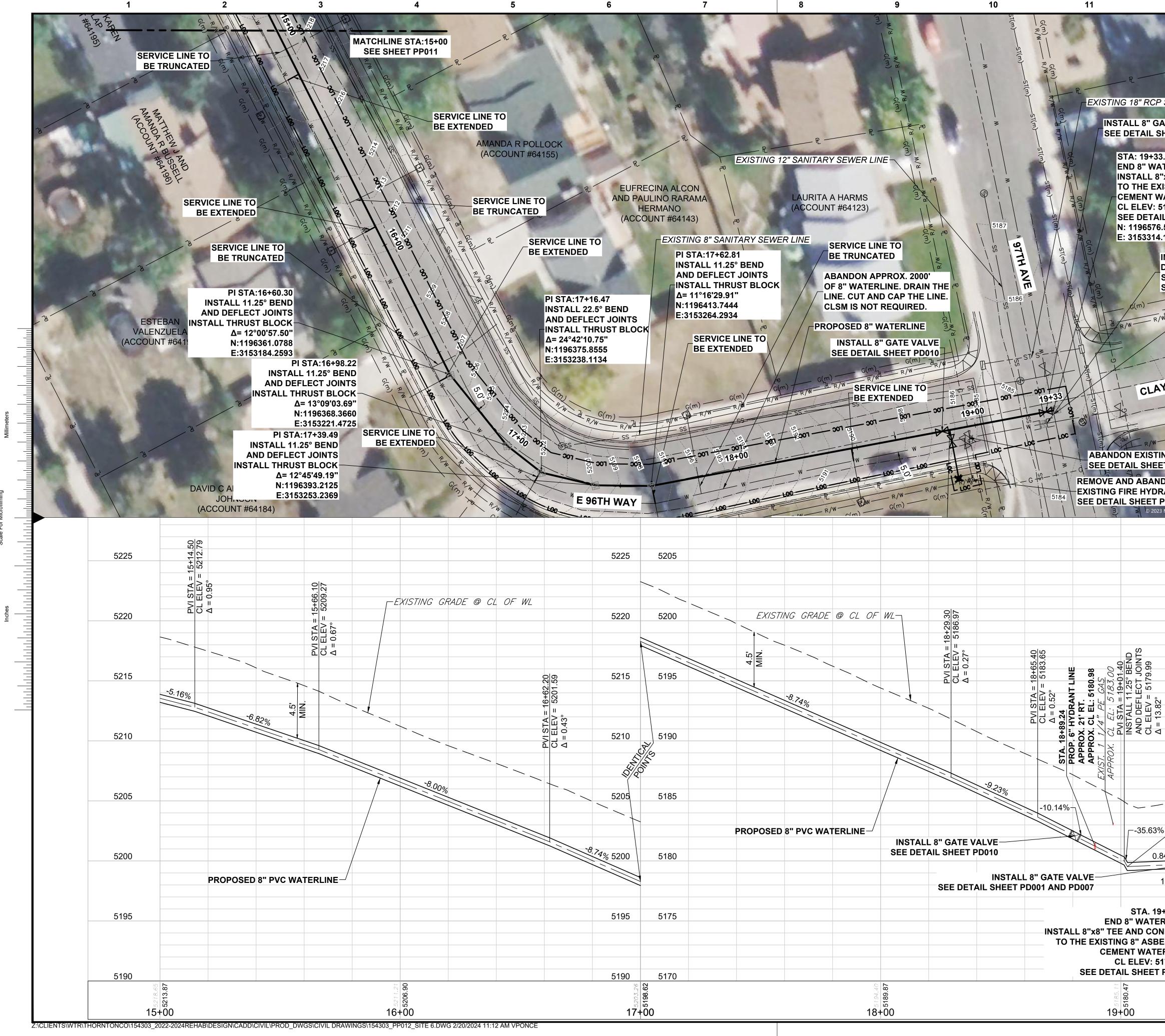


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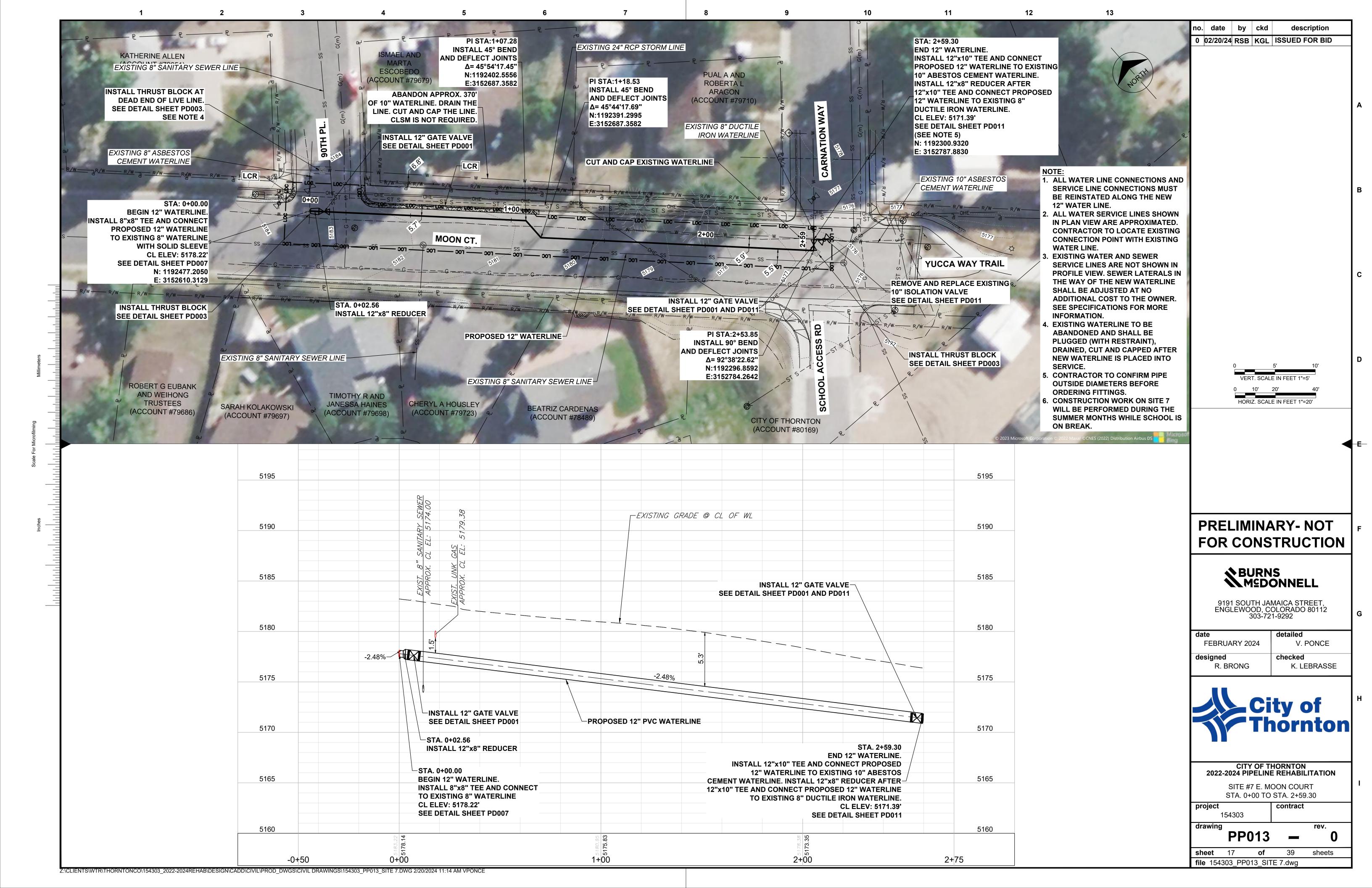


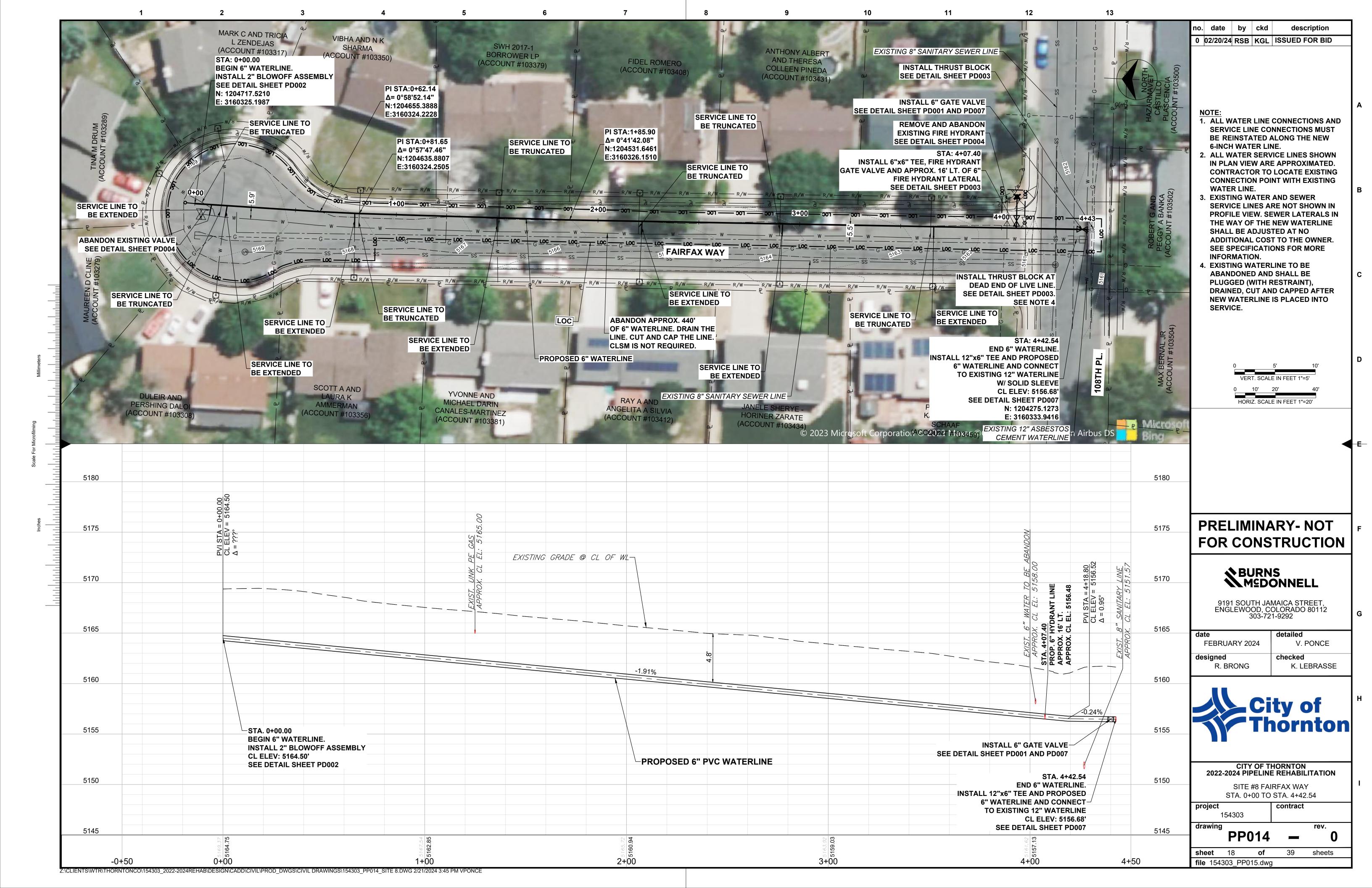


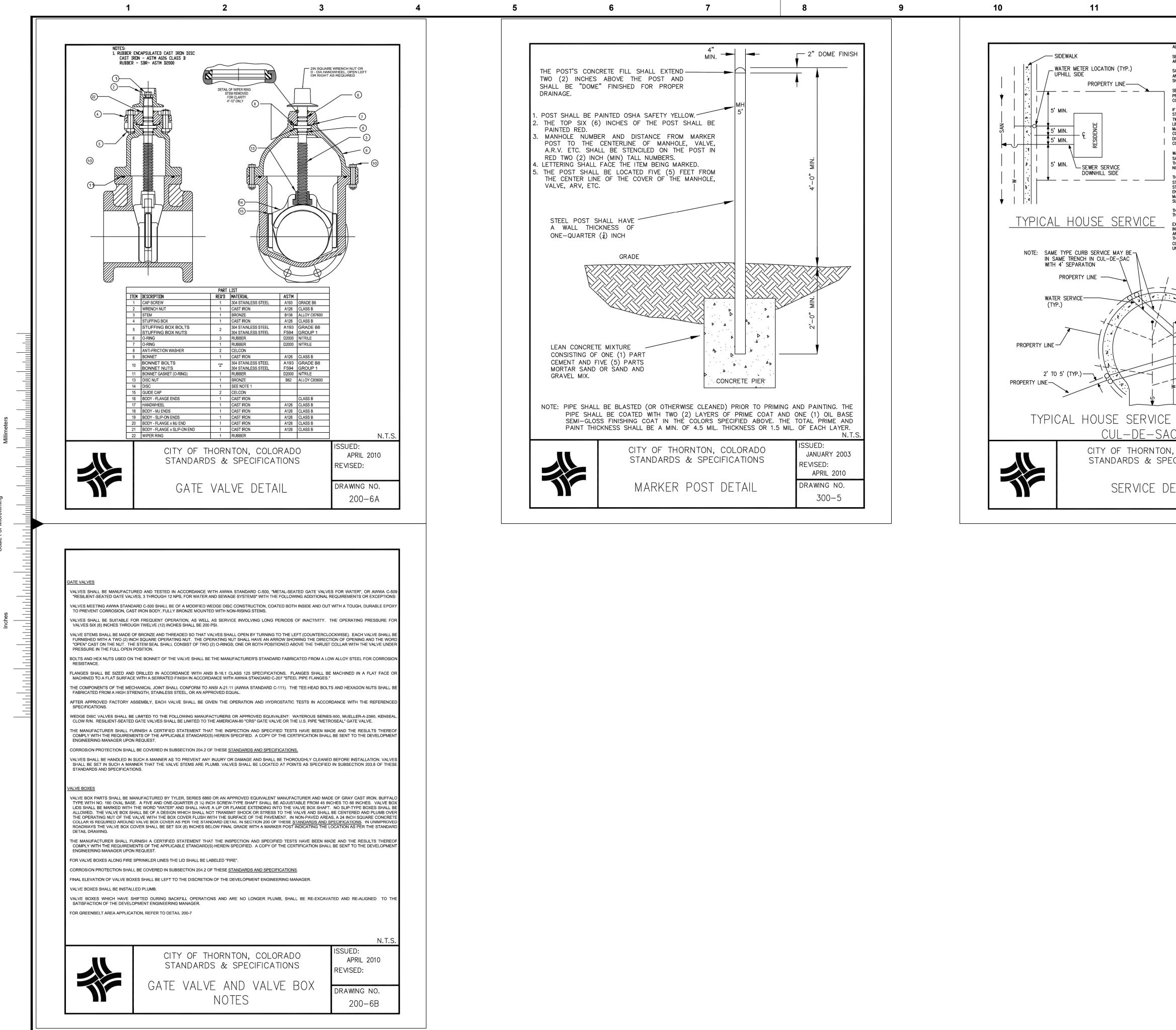




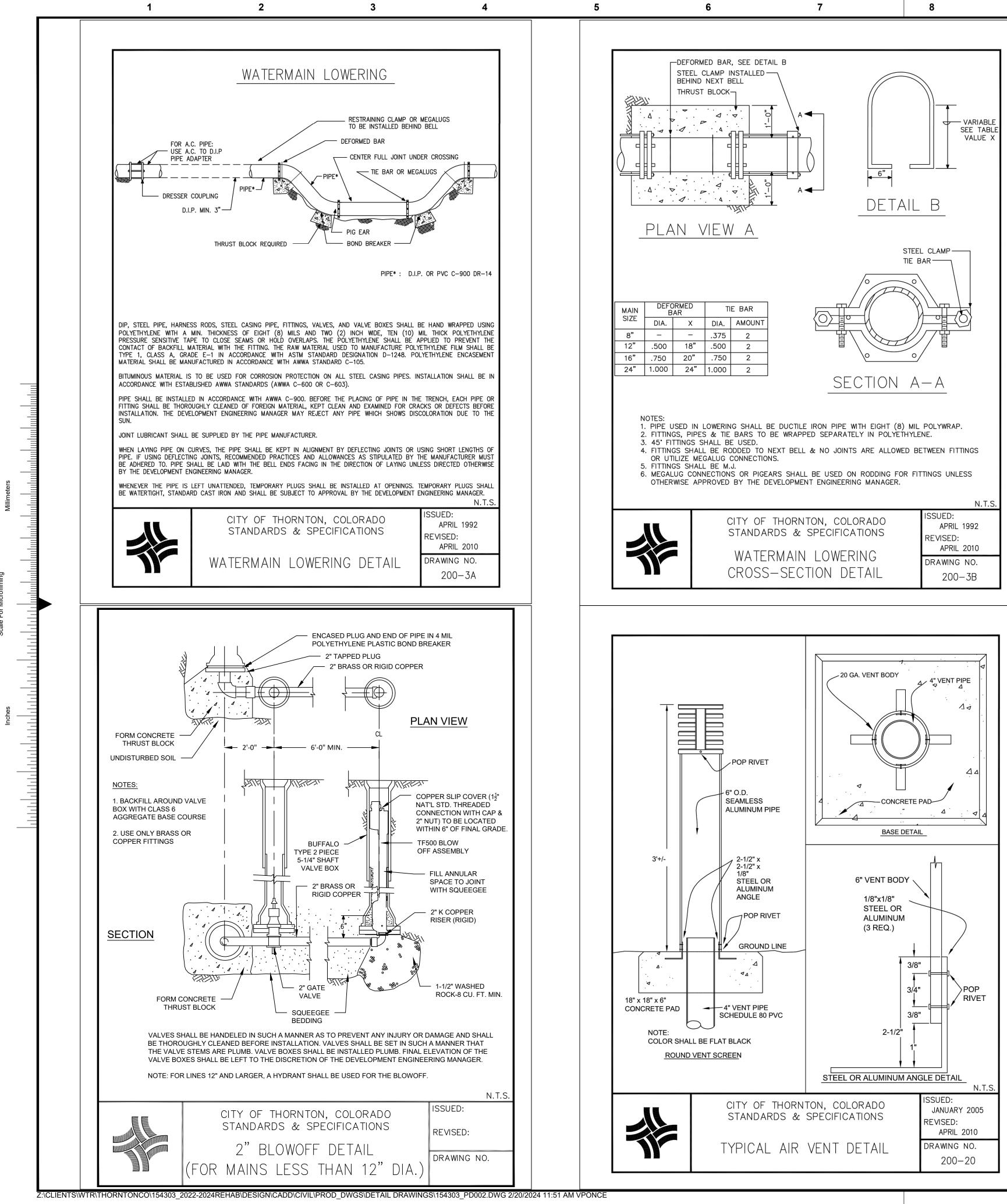
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ATERLINE 33.10 ATERLINE. 3"x8" TEE AND CONNECT XISTING 8" ASBESTOS WATERLINE 5179.78' ALL SHEET PD007	A <u>NOTE:</u> 1. ALL WATER LINE CONNECTIONS AND SERVICE LINE CONNECTIONS MUST BE REINSTATED ALONG THE NEW 8" WATER LINE. 2. ALL WATER SERVICE LINES SHOWN IN PLAN VIEW ARE APPROXIMATED. CONTRACTOR TO LOCATE EXISTING CONNECTION POINT WITH EXISTING WATER LINE. B
6.5747 4.1614 INSTALL THRUST BLOCK AT DEAD END OF LIVE LINE. SEE DETAIL SHEET PD003. SEE NOTE 4 G(m) R/W INSTALL THRUST BLOCK SEE DETAIL SHEET PD003	G(m) 3. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN PROFILE VIEW. SEWER LATERALS IN THE WAY OF THE NEW WATERLINE SHALL BE ADJUSTED AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATIONS FOR MORE INFORMATION. 4. EXISTING WATERLINE TO BE ABANDONED AND SHALL BE PLUGGED (WITH RESTRAINT), DRAINED, CUT AND CAPPED AFTER NEW WATERLINE IS PLACED INTO
R/W $R/W$ $G(m)$ $G(m)TING VALVEET PD004$	D SERVICE. 0 5' 10' VERT. SCALE IN FEET 1"=5' 0 10' 20' 40' HORIZ. SCALE IN FEET 1"=20'
NDON RANT PD004 ANDREW R BATSON 23 Microsoft Corpora(iACCOUNT #63959) Distribution Airbu 6 5205	
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× 5185 % .84% 5180	City of Thornton
1.5' 9+33.10 ERLINE.	CITY OF THORNTON 2022-2024 PIPELINE REHABILITATION SITE #6 96TH WAY
DNNECT BESTOS ERLINE 5179.78' F PD007 5170	STE #6 96TH WAY         STA. 15+00 TO STA. 19+33.10         project       contract         154303         drawing       rev.         PP012       0
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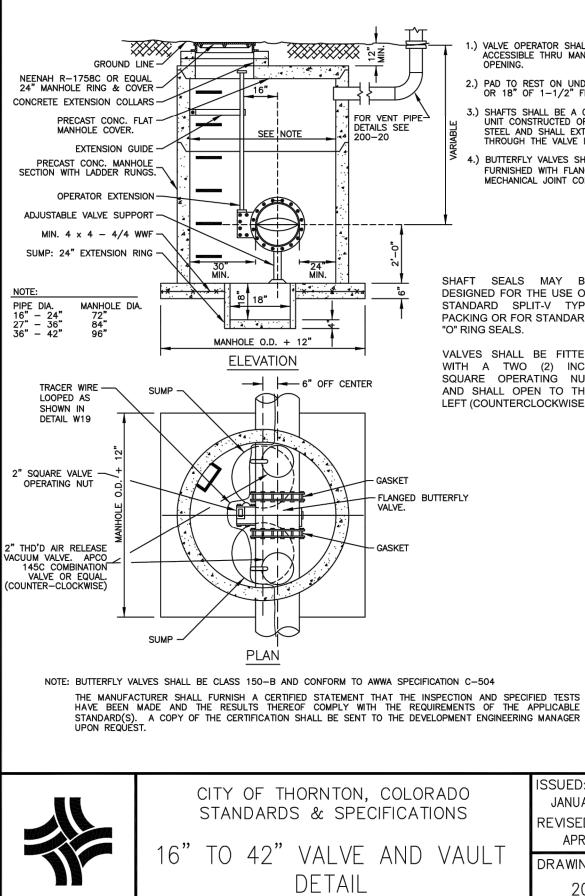


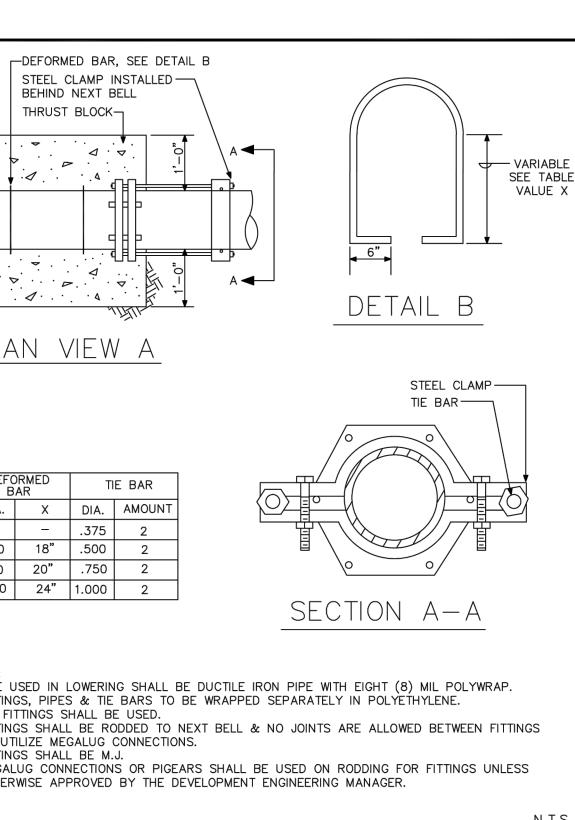


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	e a minimum of ten (10) feet	
BLE. NO	CONSTRUCTED ON THE SHORTEST D MORE THAN TWO 1/4 BENDS SEWER SERVICE.	
THAN AND	FIVE (5) FEET TO THE SIDE NO SERVICE MAY BE	
T THE END		
B LINE ( . The S -DE-SAC . ENTER	or the proposed curb Service Pipe Between the S Shall be in a The property a From the nearest lot	
ARKED WITH A "V" ON HALL BE MARKED WITH Y STAMPED, CHISELED	n THE CURB. 1 AN "X" ON	
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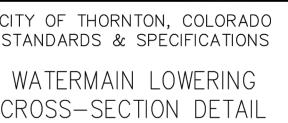








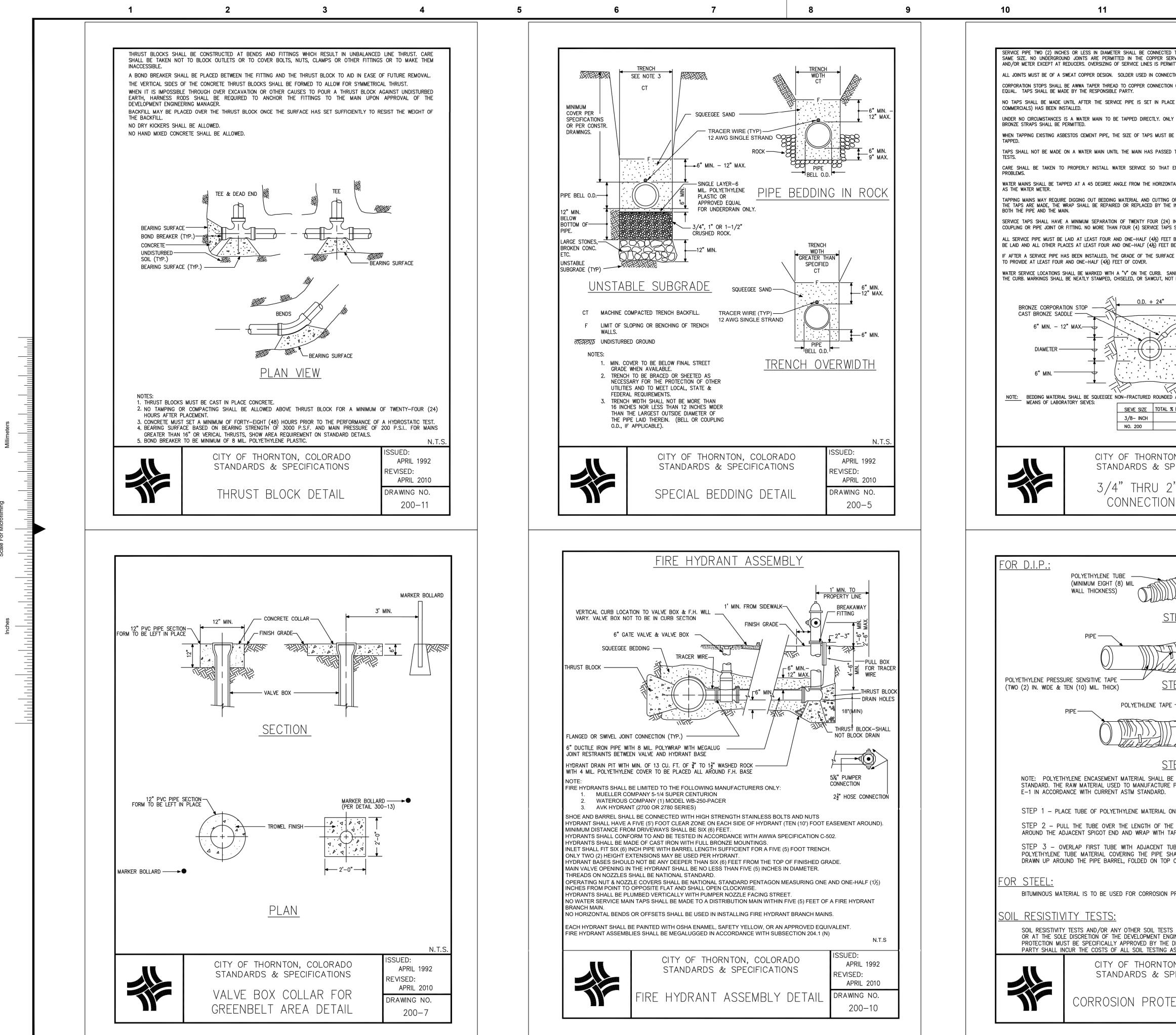




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FOR VENT PIPE DETAILS SEE 200-20	<ul> <li>1.) VALVE OPERATOR SHALL BE ACCESSIBLE THRU MANHOLE OPENING.</li> <li>2.) PAD TO REST ON UNDISTURBED SOIL OR 18" OF 1-1/2" FRACTURED ROCK.</li> <li>3.) SHAFTS SHALL BE A ONE-PIECE UNIT CONSTRUCTED OF STAINLESS STEEL AND SHALL EXTEND COMPLETELY THROUGH THE VALVE DISC BODY.</li> <li>4.) BUTTERFLY VALVES SHALL BE FURNISHED WITH FLANGED END OR MECHANICAL JOINT CONNECTIONS.</li> <li>SHAFT SEALS MAY BE DESIGNED FOR THE USE OF STANDARD SPLIT-V TYPE PACKING OR FOR STANDARD "O" RING SEALS.</li> <li>VALVES SHALL BE FITTED WITH A TWO (2) INCH SQUARE OPERATING NUT AND SHALL OPEN TO THE LEFT (COUNTERCLOCKWISE).</li> </ul>
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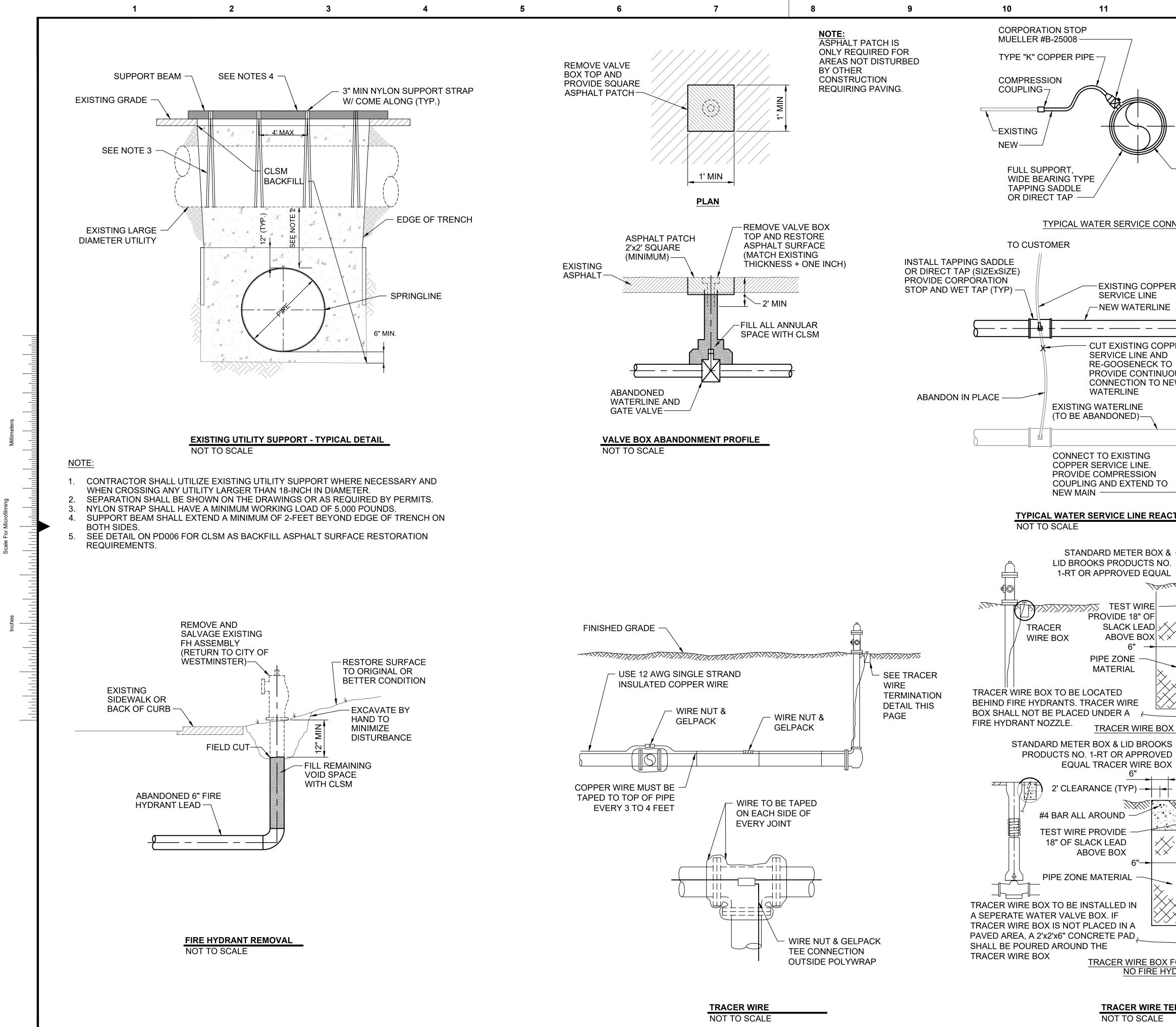
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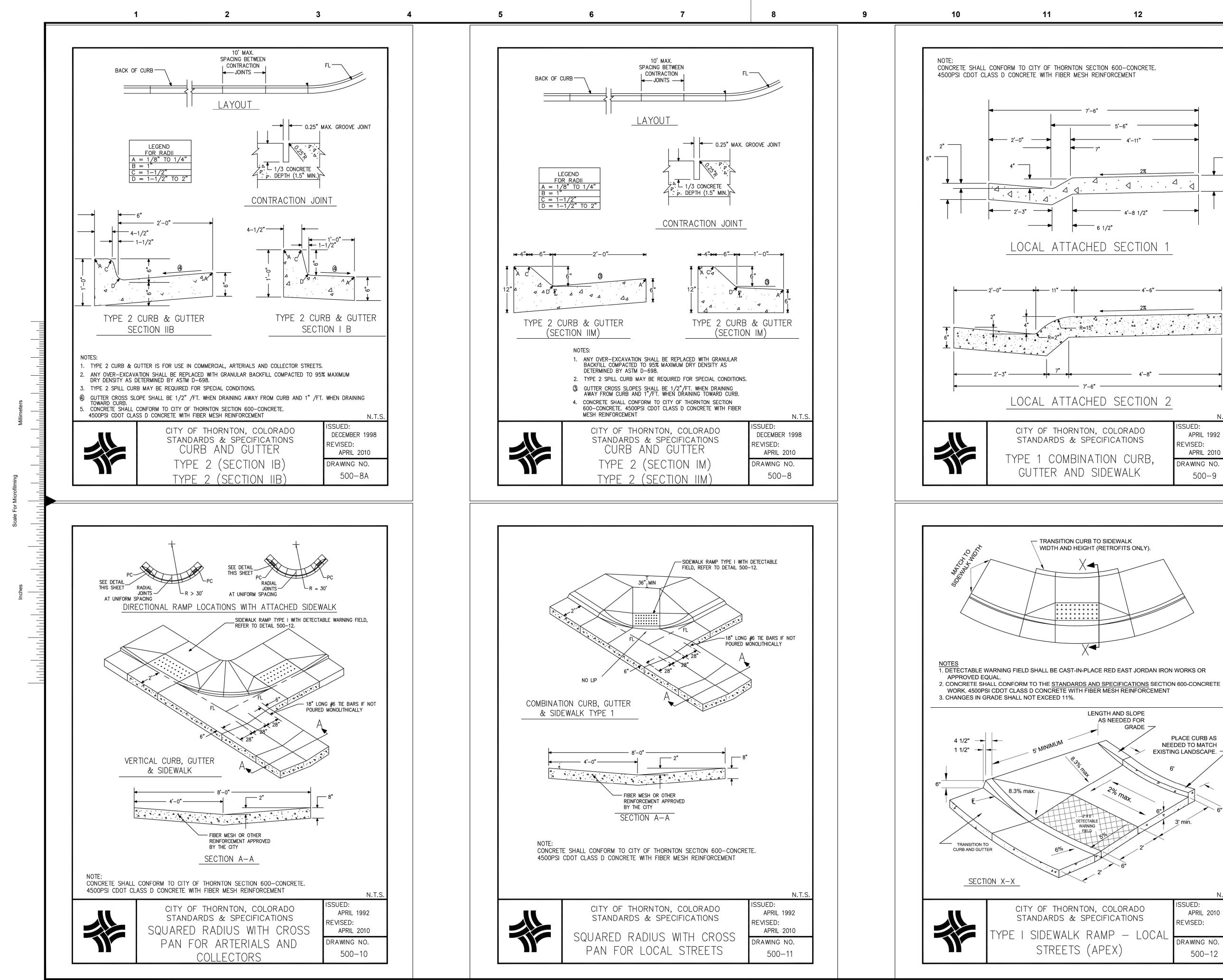


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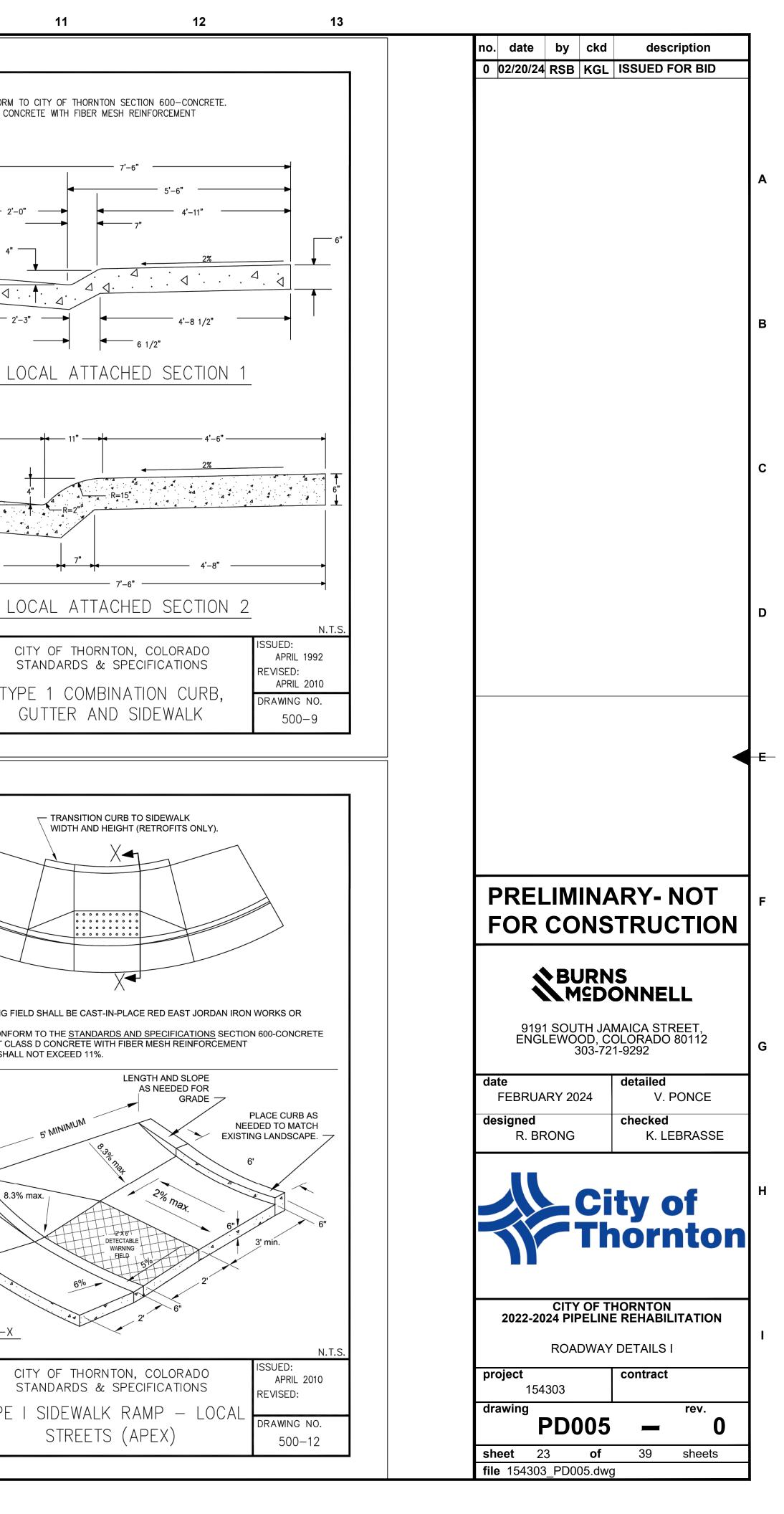
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TER SHALL BE CONNECTED TO THE MAIN BY MEANS OF A BRONZE CORPORATION STOP OF THE	0 02/20/24 RSB KGL ISSUED FOR BID
TTED IN THE COPPER SERVICE PIPE BETWEEN THE CORPORATION STOP AND THE CURB STOP OF SERVICE LINES IS PERMITTED, AND SHOULD BE OUTSIDE OF THE PIT OR VAULT.	
SOLDER USED IN CONNECTION OF THE JOINTS SHALL BE OF A LEAD CONTENT OF 0.20 OR LESS. AD TO COPPER CONNECTION OF PACK JOINT AND SHALL BE A FORD TYPE F600 OR AN APPROVED	
E PARTY. VICE PIPE IS SET IN PLACE AND THE COPPER SETTER (ON RESIDENTIALS) OR CURB STOP (ON	
BE TAPPED DIRECTLY. ONLY SADDLES UTILIZING A CAST BRONZE CASTING WITH DOUBLE SILICONE	
HE SIZE OF TAPS MUST BE ONE (1) PIPELINE SIZE SMALLER THAN THE SIZE OF THE PIPE BEING	
TIL THE MAIN HAS PASSED THE CHLORINE AND HYDROSTATIC PRESSURE TESTS AND CLEARWATER	
VATER SERVICE SO THAT ENOUGH SLACK IS IN THE SERVICE TO PROTECT AGAINST PULLOUT	
ANGLE FROM THE HORIZONTAL CENTER LINE OF THE WATER MAIN ON THE SAME SIDE OF THE PIPE	
G MATERIAL AND CUTTING OR REMOVING PART OF THE CORROSION PROTECTIVE WRAPPING. AFTER TED OR REPLACED BY THE INSTALLING RESPONSIBLE PARTY IN SUCH A MANNER AS TO PROTECT	
N OF TWENTY FOUR (24) INCHES AND BE NO CLOSER THAN TWENTY-FOUR (24) INCHES TO A N FOUR (4) SERVICE TAPS SHALL BE PERMITTED ON ANY ONE (1) JOINT OF PIPE.	
AND ONE-HALF (4½) FEET BELOW THE ESTABLISHED GRADE OF THE STREET IN WHICH THEY WILL ND ONE-HALF (4½) FEET BELOW THE SURFACE OF THE GROUND.	
HE GRADE OF THE SURFACE OF THE GROUND IS LOWERED, THE SERVICE PIPE MUST BE LOWERED TEET OF COVER.	
A "V" ON THE CURB. SANITARY SEWER SERVICE LOCATIONS SHALL BE MARKED WITH AN "X" ON CHISELED, OR SAWCUT, NOT PAINTED.	
0.D. + 24"	
3" TYPE :"K" CORPER (3/4" THRU 2")	
NON-FRACTURED ROUNDED AND SHALL CONFORM TO THE FOLLOWING LIMITS WHEN TESTED BY	
SIEVE SIZE TOTAL % PASSING BY WEIGHT	
3/8-         INCH         100           NO. 200         0-5	
N.T.S.	
OF THORNTON, COLORADO APRIL 1992	
APRIL 2010	
4" THRU 2" SERVICE DRAWING NO. ONNECTION DETAIL 200-14	
UNNECTION DETAIL 200-14	
0.05	
(8) MIL	
(8) MIL	PRELIMINARY- NOT
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(8) MIL STEP 1	PRELIMINARY- NOT FOR CONSTRUCTION
(8) MIL <u>STEP 1</u> POLYETHYLENE TUBE	FOR CONSTRUCTION
(8) MIL STEP 1	FOR CONSTRUCTION
(8) MIL <u>STEP 1</u> POLYETHYLENE TUBE	FOR CONSTRUCTION
(8) MIL <u>STEP 1</u> POLYETHYLENE TUBE <u>STEP 2</u> POLYETHIENE TAPE	FOR CONSTRUCTION SURNS MSDONNELL 9191 SOUTH JAMAICA STREET, ENGLEWOOD, COLORADO 80112
(8) MIL <u>STEP 1</u> POLYETHYLENE TUBE <u>STEP 2</u> POLYETHIENE TAPE	FOR CONSTRUCTION SURNS MSDONNELL 9191 SOUTH JAMAICA STREET,
(8) MIL STEP 1 POLYETHYLENE TUBE STEP 2 POLYETHLENE TAPE POLYETHYLENE TUBE	FOR CONSTRUCTION         EURNS         BURNS         MSDONNELL         9191 SOUTH JAMAICA STREET, ENGLEWOOD, COLORADO 80112 303-721-9292         date       detailed
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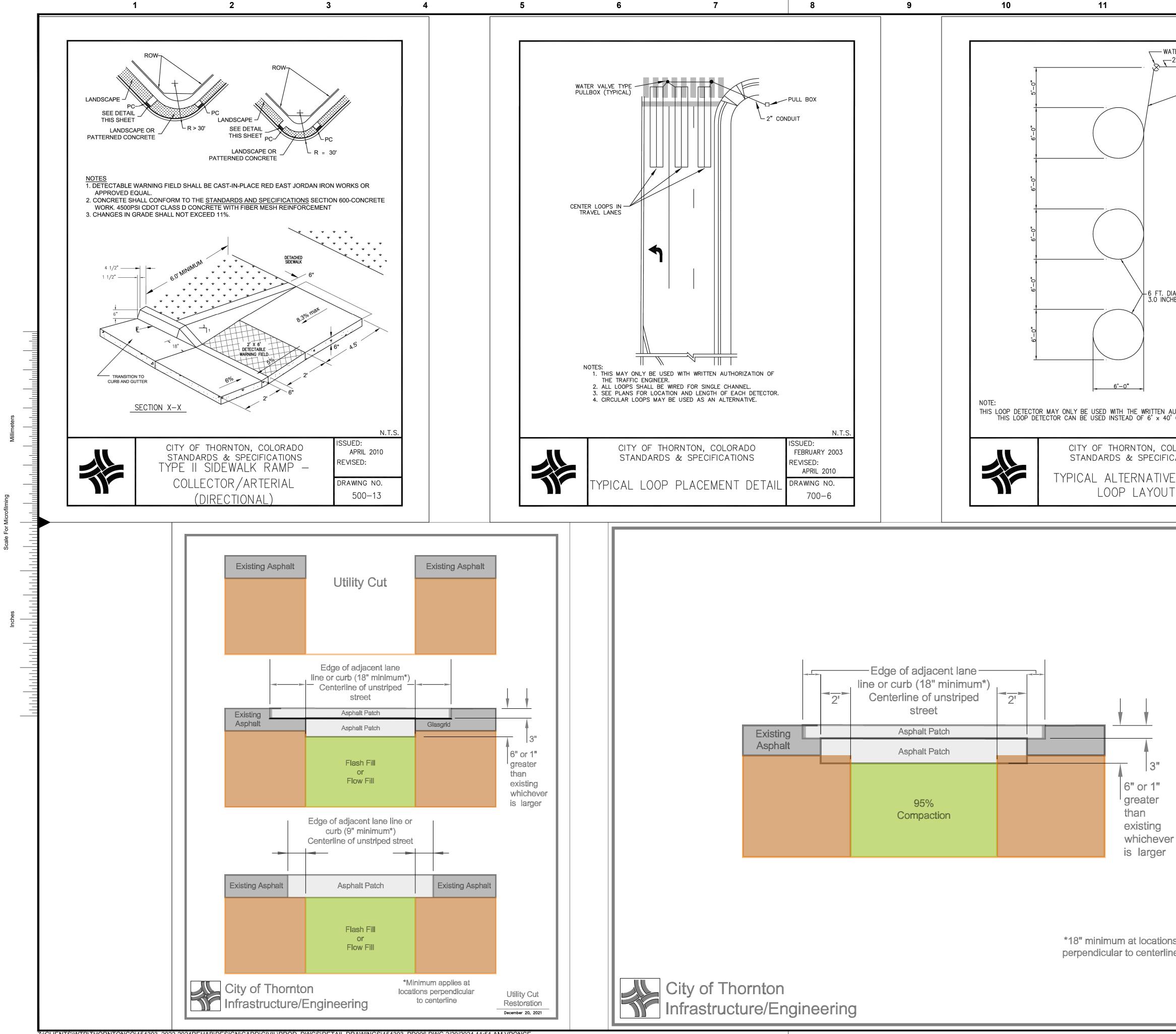
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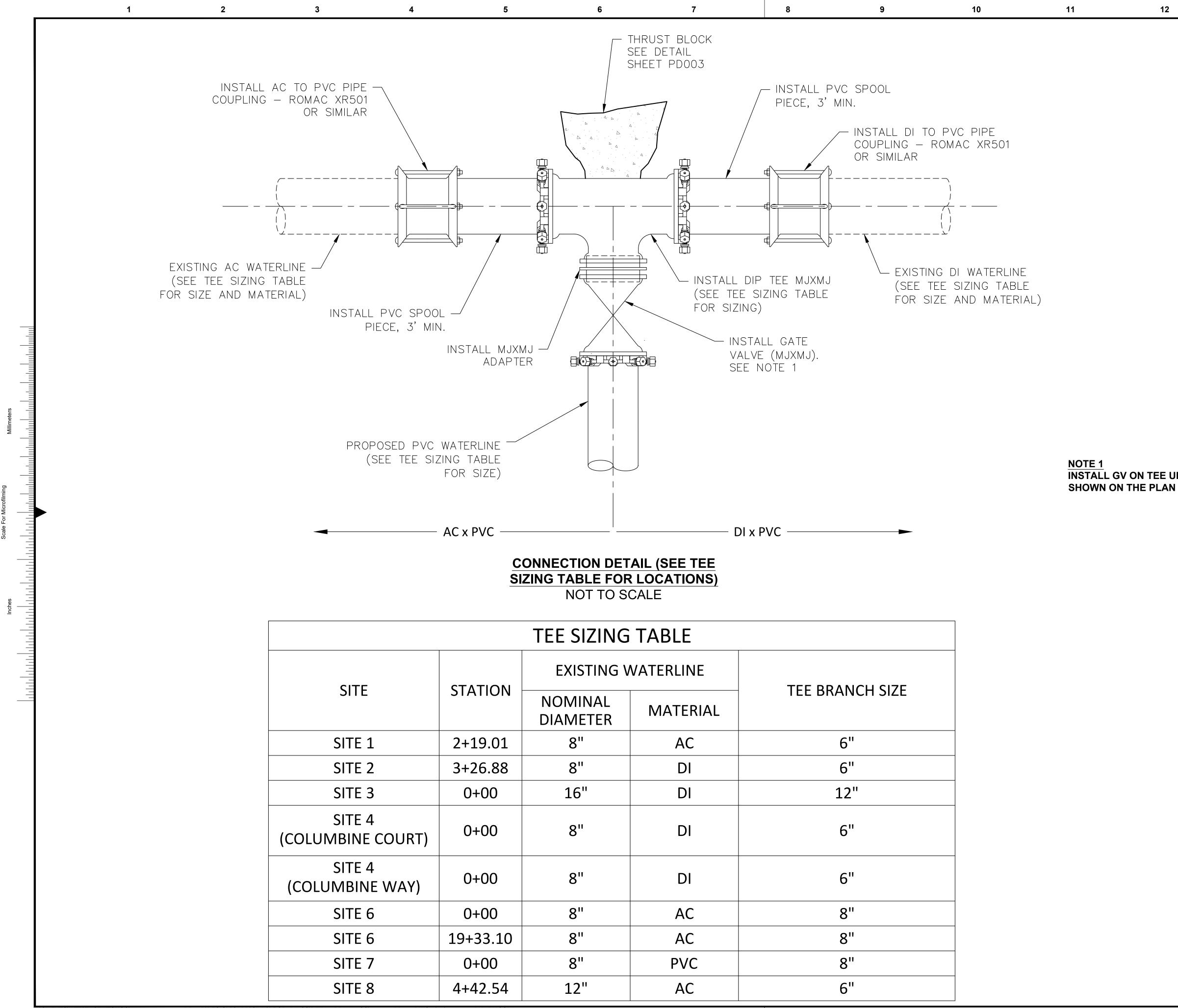
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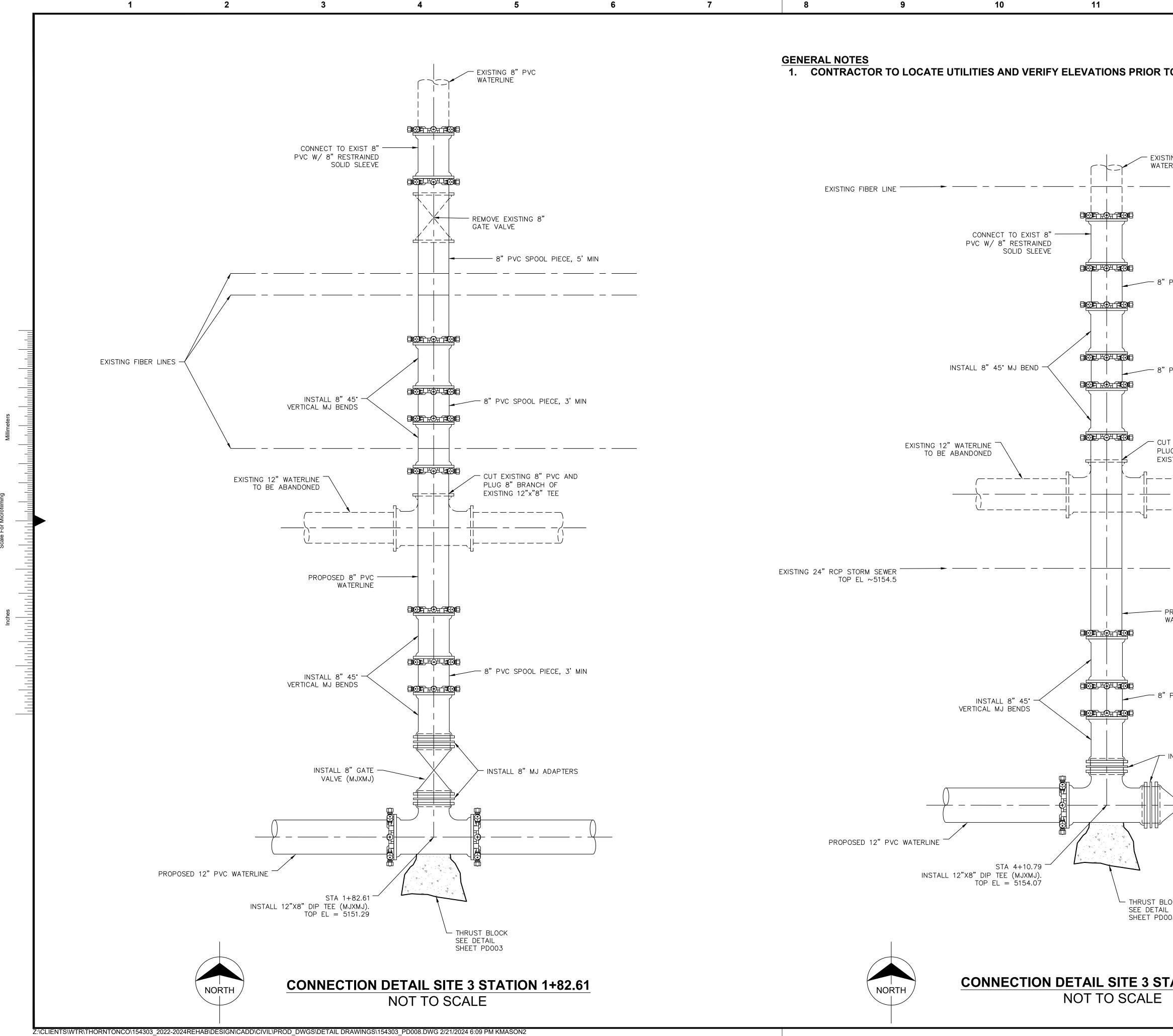
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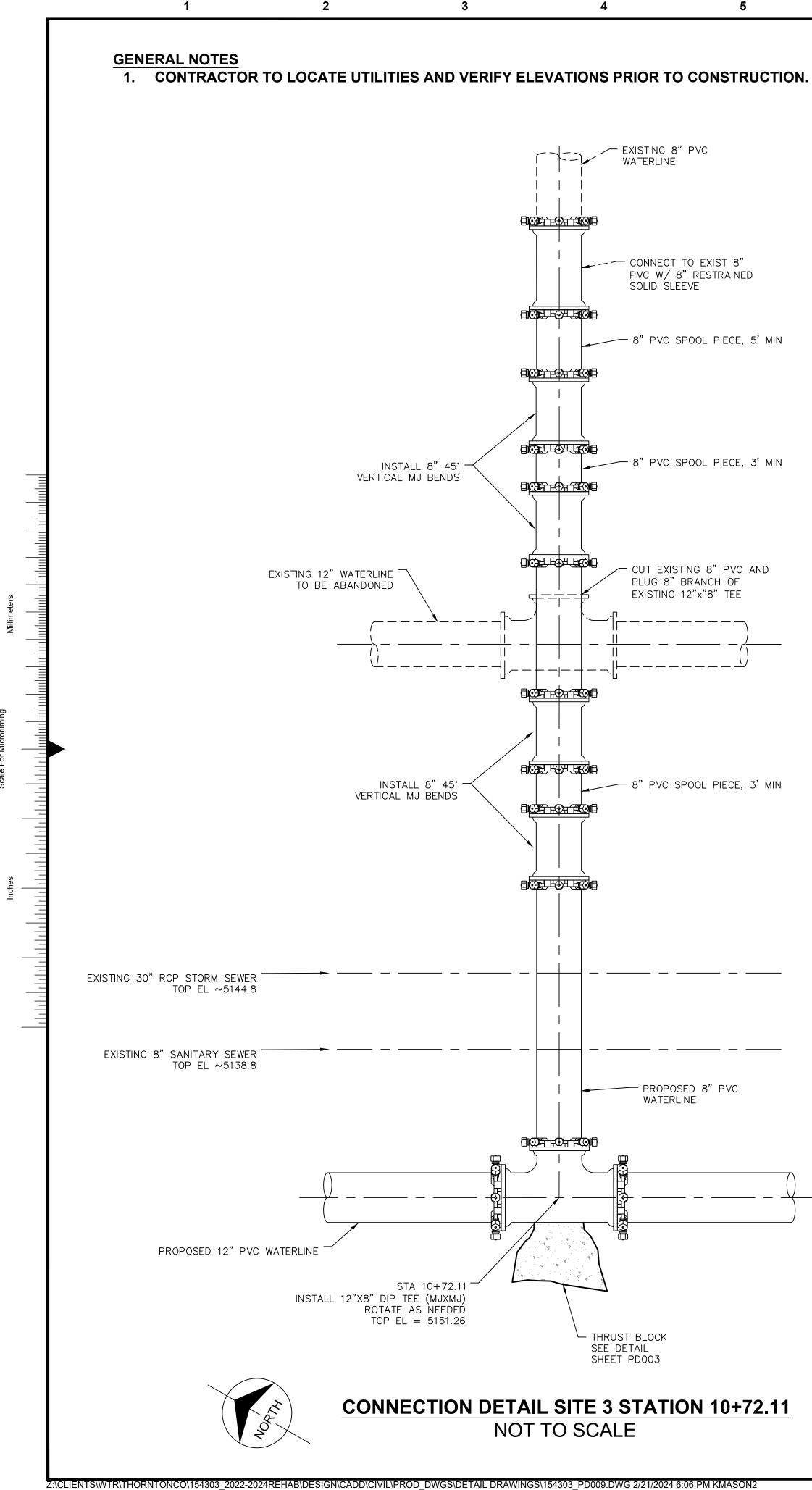
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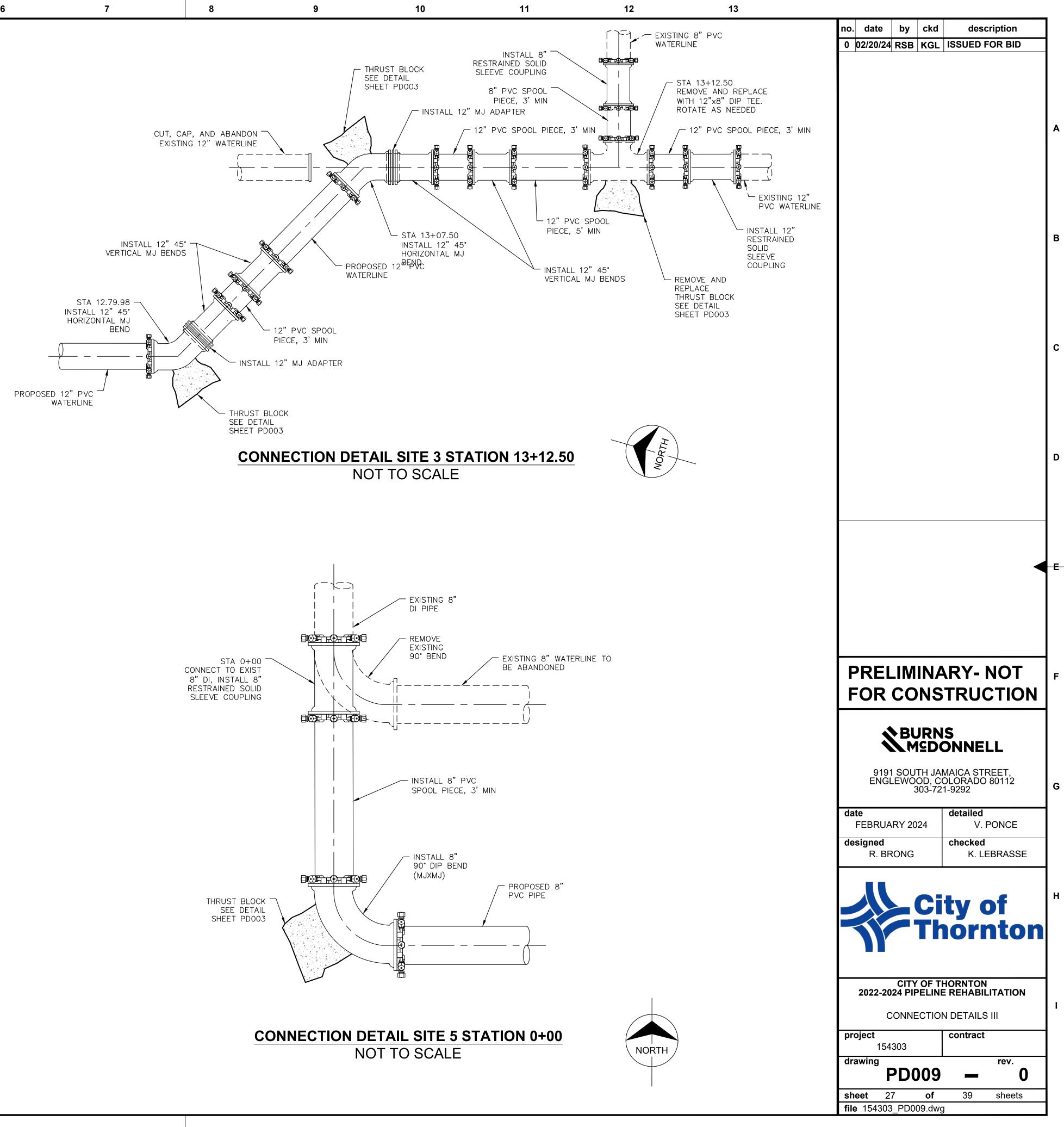
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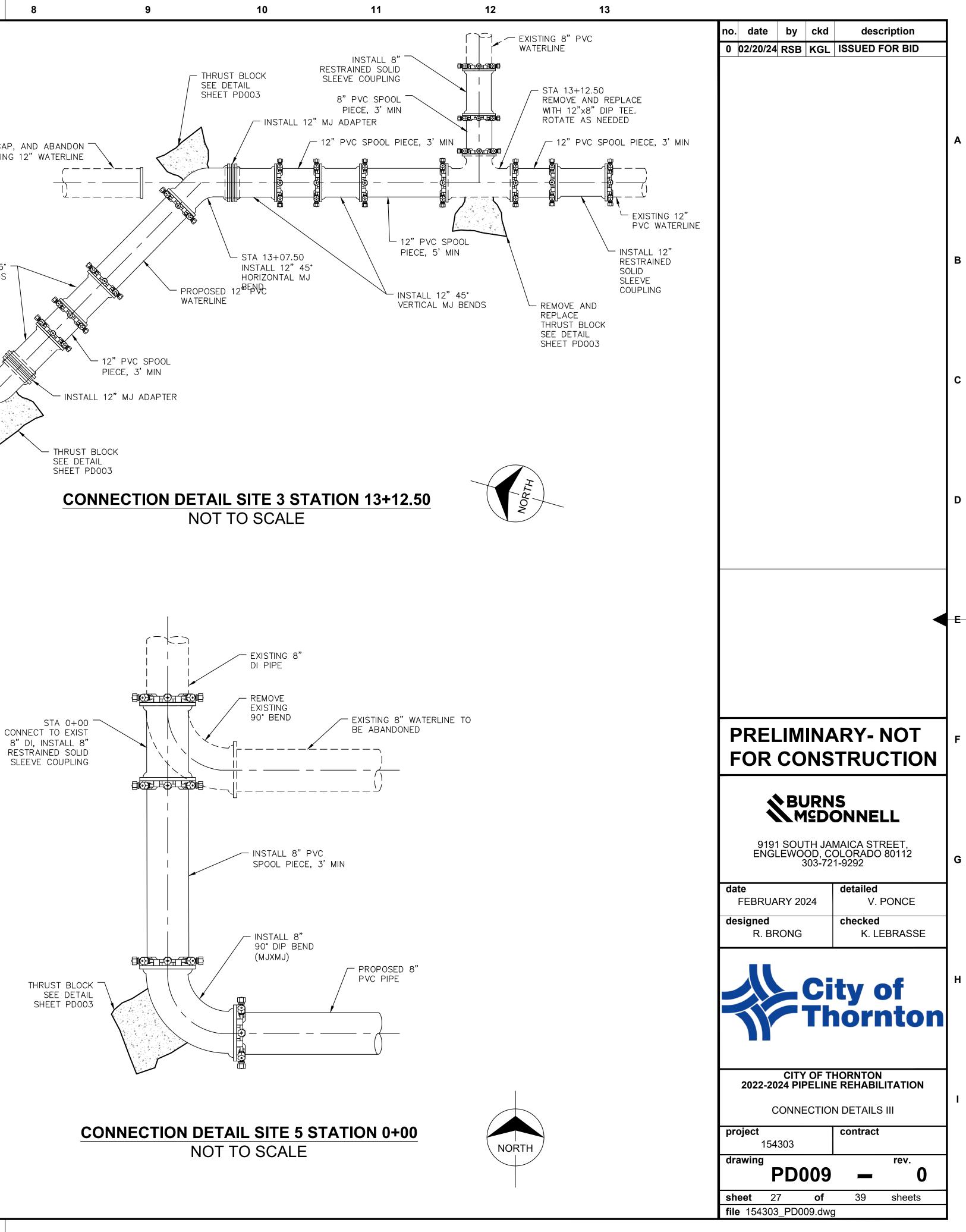


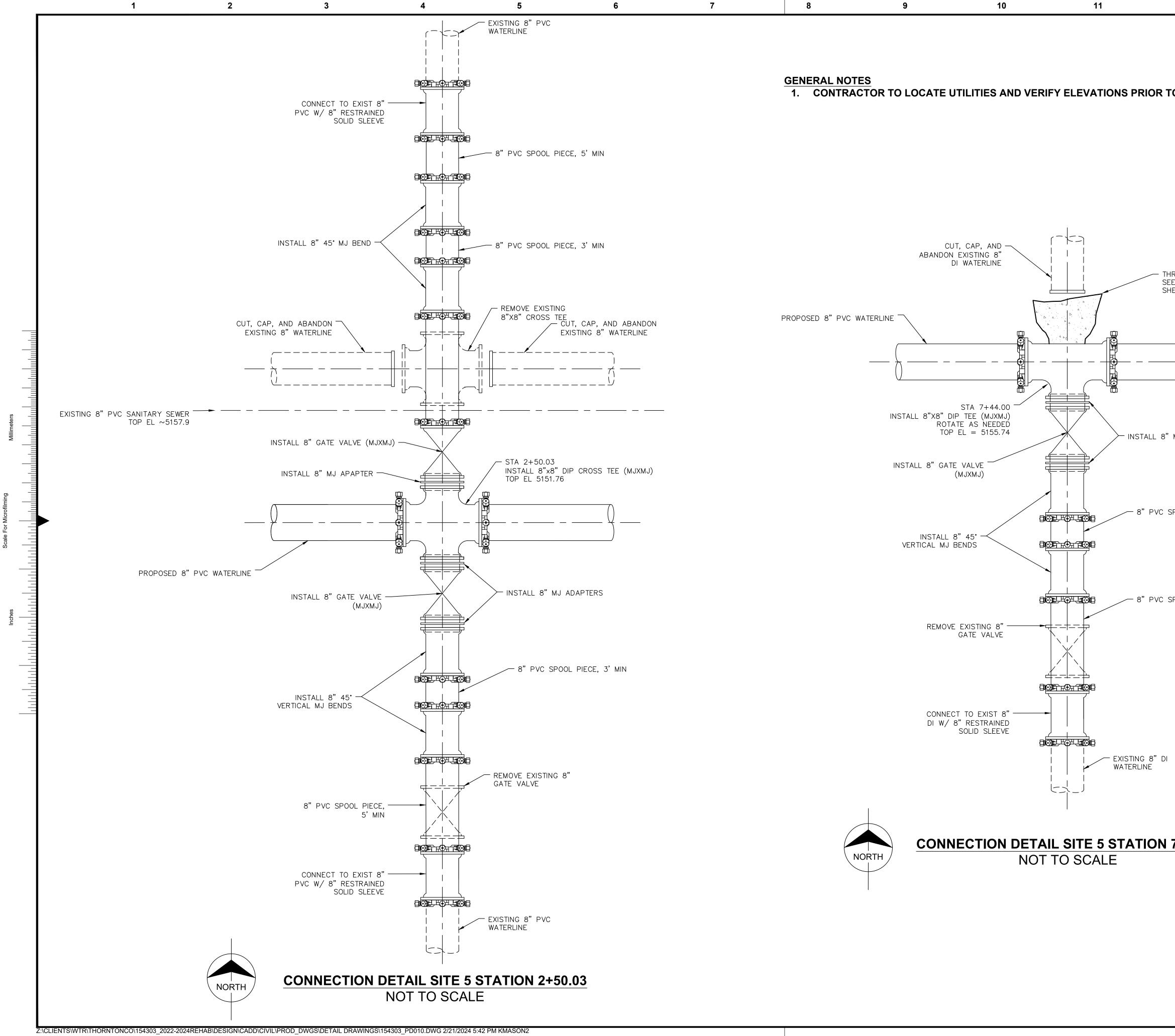
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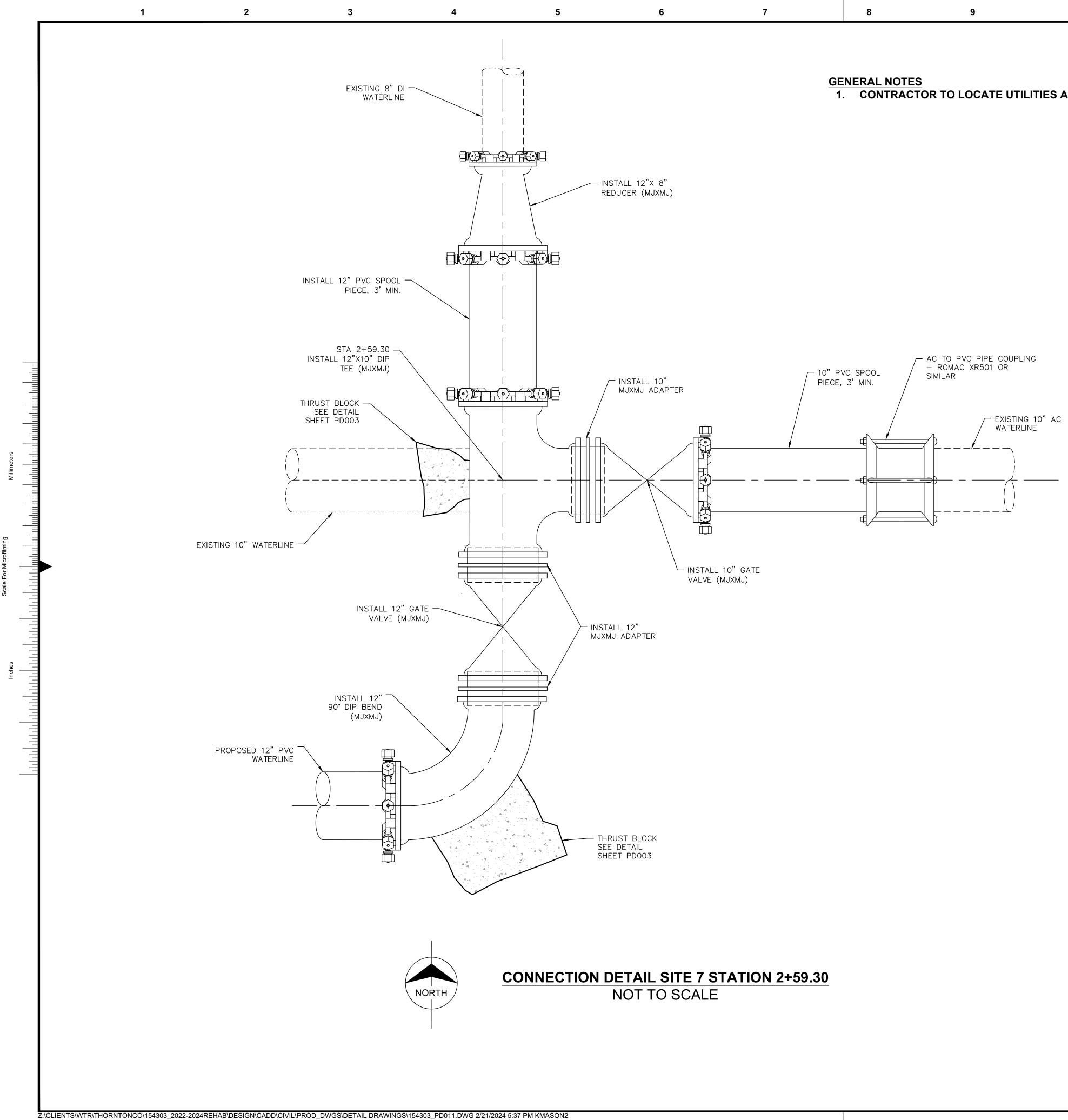






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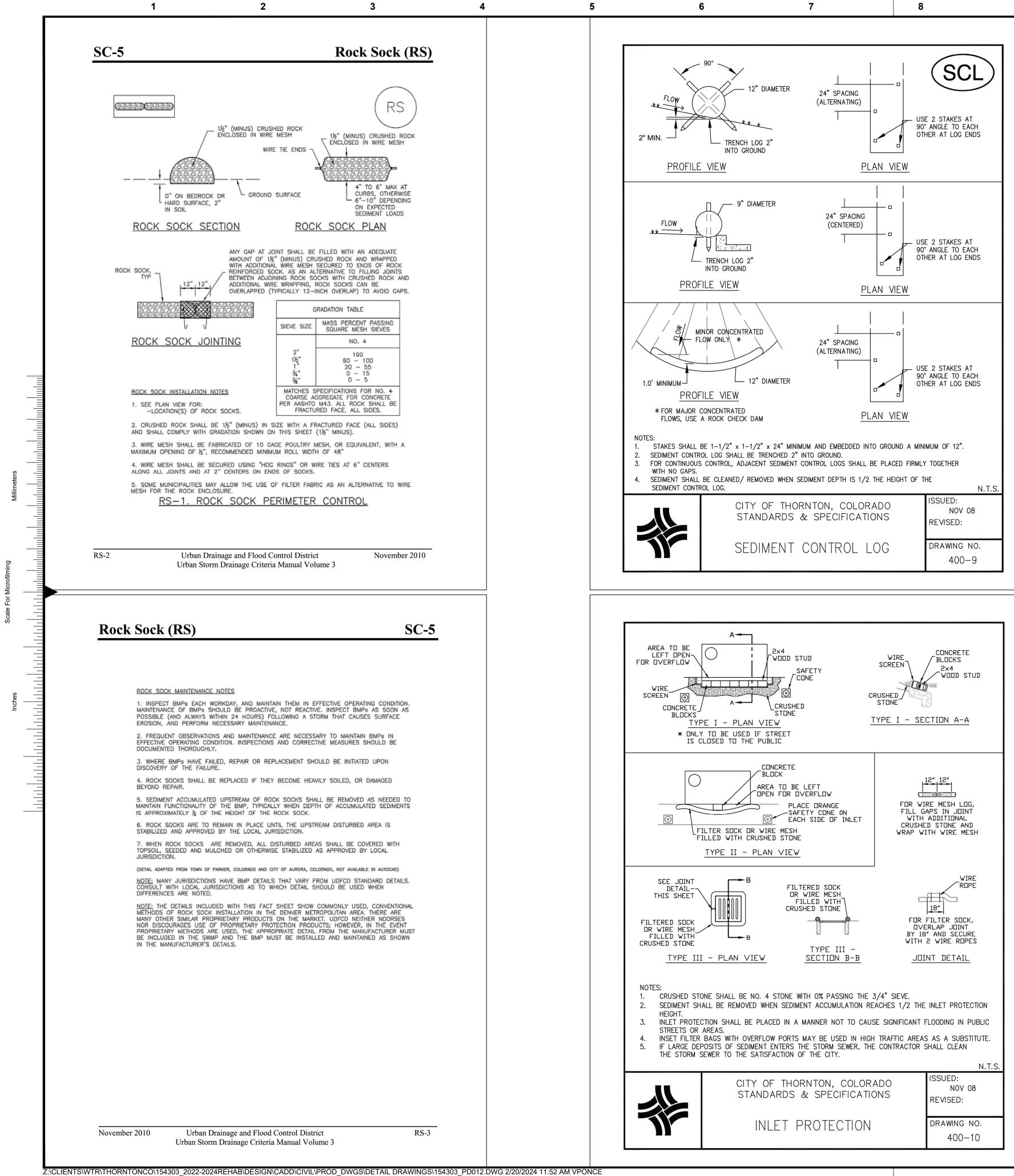
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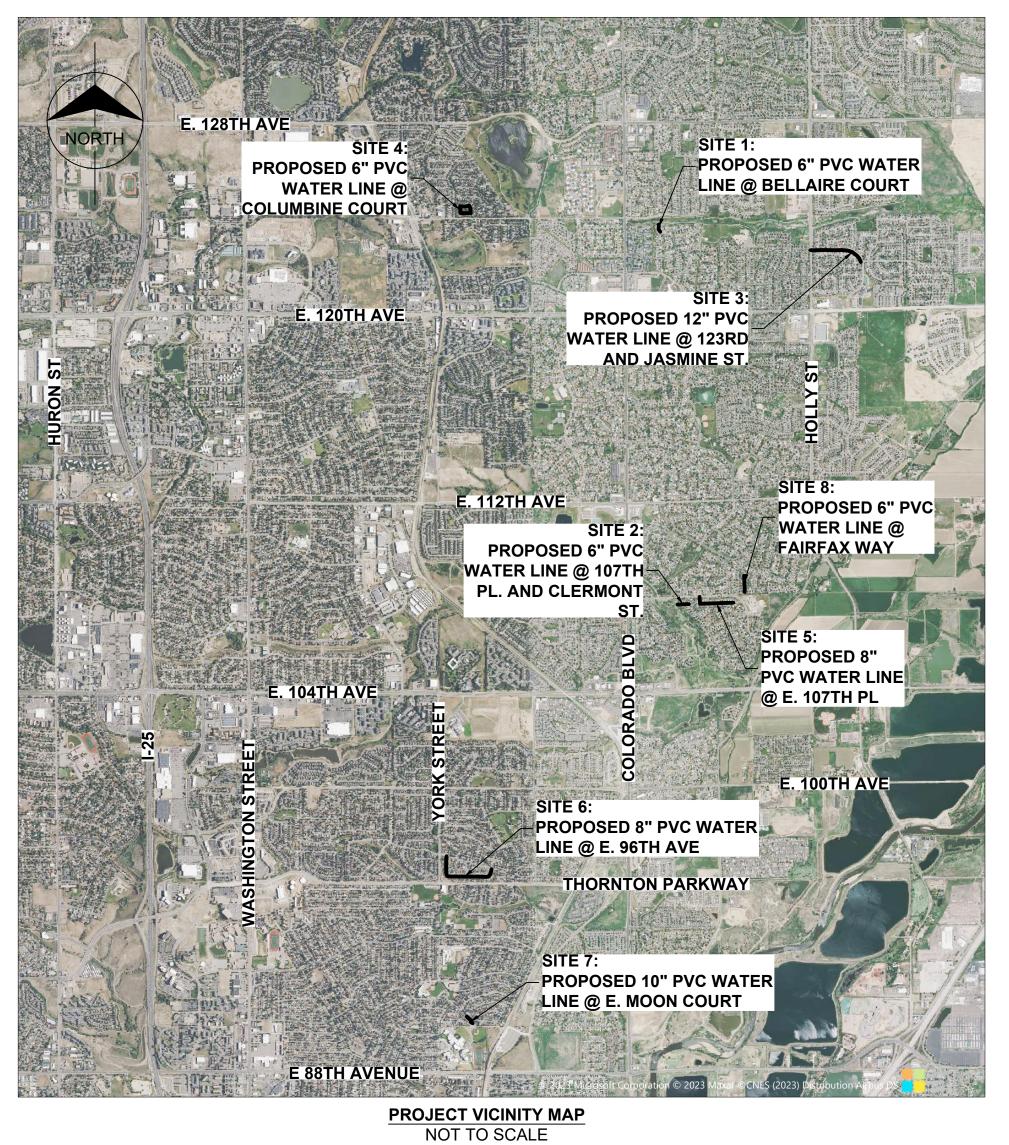




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RYAN S. BRONG, P.E CIVIL ENGINEER	DATE
JOSH REDMAN - UTILITIES OPERATIONS MANAGER          no.       date       by       ckd       description         0       02/20/24       RSB       KGL       ISSUED FOR BID	DATE

# ELINE REHABILITATION PROJECT N AND SEDIMENT CONTROL DRAWINGS PROJECT NO. 24-196



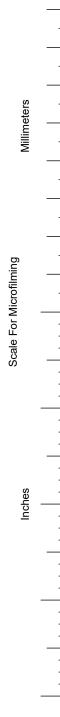
# **ISSUED FOR BID**

FEBRUARY 2024 City of Thornton Project No. 24-196 Burns & McDonnell Project No. 154303

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	LEGEND:	
SM	V V V V V V	SEEDING AND MULCHING
SD		SODDING
IP		INLET PROTECTION
CS		CURB SOCK
ECB		EROSION CONTROL BLANKET
SF	—\$F—\$F—	SILT FENCE
CF	CFCF	CONSTRUCTION FENCE
LDA		LIMITS OF DISTURBED AREA
SCL	SCL	SEDIMENT CONTROL LOG
LOC	LOC LOC	LIMITS OF CONSTRUCTION
CWA		CONCRETE WASHOUT AREA
LAR		LIMITS OF ASPHALT REMOVAL AND REPLACEMENT
LCR		LIMITS OF CONCRETE REMOVAL AND REPLACEMENT
LGR		LIMITS OF GRAVEL REMOVAL AND REPLACEMENT
VTC	2020201	VEHICLE TRACKING CONTROL
		FLOW DIRECTION
	- <del></del>	SIGN AS DESIGNATED
		EXISTING TREE DIA. AND DRIP LINE (e.g. D16 15)

BMP QUANTITIES					
BMP MEASURE	QUANTITY				
LOC	242,303 SQFT				
SCL	1,650 LF				
LAR	62,587 SQFT				
CS	130 QTY				
IP	14 QTY				
LCR	2,035 SQFT				



7	8	9	10	11

## **CITY OF THORNTON EROSION AND SEDIMENT CONTROL NOTES:**

- 1. CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY EARTH DISTURBING ACTIVITIES COMMENCE.
- 2. THE CONTRACTOR SHALL NOTIFY THE CITY OF THORNTON INSPECTOR ONCE ALL INITIAL CONTROL MEASURES HAVE BEEN INSTALLED FOR AN INITIAL INSPECTION AT LEAST FORTY EIGHT (48) HOURS PRIOR TO THE INSPECTION. CONSTRUCTION ACTIVITY CANNOT BEGIN UNTIL A PASSING INITIAL INSPECTION HAS OCCURRED.
- 3. STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SHALL NOT CAUSE, HAVE THE REASONABLE POTENTIAL TO CAUSE, OR MEASURABLY CONTRIBUTE TO AN EXCEEDANCE OF ANY WATER QUALITY STANDARD.
- CONSTRUCTION SHALL BE PHASED IN A MANNER TO LIMIT EARTH DISTURBING ACTIVITIES (I.E. THE ENTIRE PROJECT SITE SHOULD NOT BE DISTURBED IF CONSTRUCTION WILL ONLY BE OCCURRING IN ONE PARTICULAR SECTION).
   SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE REMOVED
- FROM RUNOFF WATER BEFORE IT LEAVES THE CONSTRUCTION SITE.
- 6. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND ANY OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4 OR STATE WATERS.
- 7. A COPY OF THE SWMP AND SITE MAPS MUST BE AVAILABLE AT ALL TIMES ON THE CONSTRUCTION SITE UNLESS OTHERWISE APPROVED BY CDPHE OR THE CITY OF THORNTON.
- 8. THE SWMP AND SITE MAPS SHALL BE CONTINUOUSLY UPDATED TO REFLECT NEW OR REVISED CONTROL MEASURES (CM) DUE TO CHANGES IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE CONSTRUCTION SITE. UPDATES MUST BE MADE WITHIN 72-HOURS FOLLOWING THE CHANGE IN CONTROL MEASURES.
- 9. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE (INCLUDING ALL BMP'S, STORAGE CONTAINERS, AND CONSTRUCTION EQUIPMENT) A MINIMUM OF EVERY **14 CALENDAR DAYS** AND WITHIN 24-HOURS AFTER A PRECIPITATION EVENT OR SNOW MELT THAT CAUSE SURFACE EROSION. INSPECTIONS SHALL CONTINUE UNTIL AN INACTIVATION NOTICE IS FILED WITH CDPHE.
- 10. THE CONTRACTOR SHALL KEEP A RECORD OF ALL INSPECTIONS ON SITE AND AVAILABLE FOR REVIEW BY CDPHE OR CITY STAFF. INSPECTION REPORTS MUST IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT.
- 11. CONTROL MEASURES REQUIRING MAINTENANCE OR ADJUSTMENT SHALL BE REPAIRED IMMEDIATELY AFTER OBSERVATION OF THE FAILING CONTROL MEASURE.
- 12. SILT FENCE PATCHING: PATCHING IS ONLY ALLOWED ON THE TOP HALF OF THE FENCE. NOT MORE THAN TWO (2) PATCHES PER SECTION OF FENCE. SILT FENCE WITH HOLES OR DETERIORATION ON THE LOWER HALF OF THE FENCE MUST BE REPLACED. REPAIR TYPICALLY INVOLVES REPLACING THE SILT FENCE TO MAINTAIN THE CM'S EFFECTIVENESS TO DRAIN SLOWLY AND FUNCTION AS ORIGINALLY DESIGNED.
- 13. FOR ALL INSTANCES OF NONCOMPLIANCE BASED ON ENVIRONMENTAL HAZARDS AND CHEMICAL SPILLS AND RELEASES, ALL NEEDED INFORMATION MUST BE PROVIDED ORALLY TO CDPHE SPILL REPORTING LINE (24-HOUR NUMBER FOR ENVIRONMENTAL HAZARDS AND CHEMICAL SPILLS AND RELEASES: 1-877-518-5608) WITHIN **24-HOURS** FROM THE TIME THE CONTRACTOR BECOMES AWARE OF THE CIRCUMSTANCES.
- 14. STRAW BALES **SHALL NOT** BE USED FOR PRIMARY EROSION OR SEDIMENT CONTROL (I.E. STRAW BALES MAY BE USED FOR REINFORCEMENT BEHIND ANOTHER BMP SUCH AS SILT FENCE).
- 15. CONTROL MEASURES REFERRED TO AS "CUTBACK CURB" ARE **NOT ALLOWED.** THE CUTBACK CURB MAY BECOME INEFFECTIVE AND MAY ALSO COMPROMISE THE INTEGRITY OF THE CURB AND IN MOST CASES DOES NOT PROVIDE ANY WATER QUALITY BENEFIT FOR FILTERING OUR SEDIMENT.
- 16. INLET PROTECTION AND VEGETATIVE BUFFER CONTROL MEASURES **SHALL NOT** BE USED AS STANDALONE CM'S. THESE METHODS MUST BE UTILIZED WITH AT LEAST ONE ADDITIONAL CM.
- 17. CONTROL MEASURES INTENDED FOR SHEET FLOW SEDIMENT RUNOFF SHALL BE PLACED PARALLEL TO THE SLOPE.
- 18. ALL CONTROL MEASURES SHALL BE CLEANED WHEN SEDIMENT LEVELS ACCUMULATE TO HALF THE DESIGN OF THE CM UNLESS OTHERWISE SPECIFIED.
- 19. A VEHICLE TRACKING CONTROL (VTC) SHALL BE PLACED AT ALL ENTRANCES/EXITS FROM THE SITE TO PREVENT TRACK-OUT ONTO PUBLIC STREETS. IF TRACK-OUT DOES OCCUR, THE CONTRACTOR SHALL IMMEDIATELY SWEEP THE STREET OF DEBRIS. RECYCLED CRUSHED CONCRETE OR ASPHALT **SHALL NOT** BE USED FOR VEHICLE TRACKING CONTROL (VTC).
- FOR RESIDENTIAL PROJECTS, BACK OF CURB PROTECTION IS REQUIRED ALONG ALL INTERIOR LOTS.
   ALL SEDIMENT COLLECTED IN BMP'S SHALL BE REMOVED UPON INITIAL
- ALL SEDIMENT COLLECTED IN BMP S SHALL BE REMOVED OPON INITIAL ACCEPTANCE.
  22. WIND EROSION AND DUST CONTROL MEASURES MUST BE UTILIZED TO
- 22. WIND EROSION AND DUST CONTROL MEASURES MUST BE UTILIZED TO MINIMIZE AIRBORNE PARTICULATE DUST. CONTROL MEASURES MAY INCLUDE MINIMIZING DISTURBED AREAS, WATERING, AND/OR PROVIDING TEMPORARY STABILIZATION.

23. PERMANENT EROSION CONTROL DITCHES, OR ANY DISTURBED LAI **CALENDAR DAYS** AFTER FINAL G HAS BEEN COMPLETED. WHEN IT STABILIZE A DISTURBED AREA AF COMPLETED OR WHERE SIGNIFIC TEMPORARY SOIL EROSION CON WITHIN 14 CALENDAR DAYS. TEM SHALL BE MAINTAINED UNTIL PEF IMPLEMENTED. 12

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- 24. FINAL STABILIZATION HAS BEEN A ACTIVITIES AT THE SITE HAVE BE COVER HAS BEEN ESTABLISHED LEAST **70 PERCENT** OF PRE-DIST PERMANENT, PHYSICAL EROSION EMPLOYED.
- 25. ALL TEMPORARY CONTROL MEAS UPON SUBMITTING THE INACTIVA
- 26. ALL SITE WASTES (INCLUDING TF PROPERLY MANAGED TO PREVER
- 27. STREET REPAIR OPERATIONS SU CHIP SEAL. THE MINIMUM CM'S RI SOCKS, AND STREET SWEEPING.

### **GENERAL NOTES:**

- 1. ALL SITE GRADING (EXCAVATION CONFORM TO THE RECOMMEND/ THIS PROJECT AND SHALL FURTH THORNTON'S GENERAL EROSION
- 2. SEDIMENT CONTROL LOGS SHAL CHANNEL BEING DISTURBED.
- 3. CONTRACTOR SHALL USE VEHICL ENTERING AND EXITING THE ROA TRACKING PAD BMPS, THE CONT CLEANING AFFECTED PUBLIC STF CONSTRUCTION ACTIVITY INITIAT OR AS OTHERWISE DIRECTED BY
- 4. ANY STORM DRAIN INLET ALONG IMMEDIATELY DOWN GRADIENT ( WITH INLET PROTECTION (IP).
- 5. NATURAL VEGETATION SHALL BE POSSIBLE. EXPOSURE OF SOIL T OF VEGETATION SHALL BE LIMITE CONSTRUCTION OPERATION AND TIME.
- 6. TOPSOIL SHALL BE STOCKPILED FOR USE ON AREAS TO BE REVER BE LOCATED AND PROTECTED F
- 7. ALL DISTURBED SURFACE NOT R ETC.) SHALL BE SEEDED AND MU IMMEDIATELY AFTER CONSTRUC
- 8. TEMPORARY VEGETATION SHALL WHERE PERMANENT SURFACE IN INSTALLATION WITHIN 30 DAYS O VEGETATION SHALL BE A VIGORO MIX. (REFER TO SPECIFICATIONS SHOULD TAKE ADVANTAGE OF SI NATURAL GERMINATION, BUT SE CONDITIONS SO MERIT.
- 9. AT ALL TIMES, THE PROPERTY SH PREVENT WIND CAUSED EROSION DISCONTINUED WHEN FUGITIVE D PROPERTY. IF EARTHWORK IS CO THE SITE CONTINUES TO CREATE IMMEDIATELY INSTITUTE MITIGAT DAMAGE TO ADJACENT PROPERT
- 10. TEMPORARY CUT/FILL SLOPES S (2H:1V). PERMANENT SLOPES SH SEEDED OR SODDED.
- UTILITY CONSTRUCTION IS NOT A
   THE CONTRACTOR SHALL PROVI EROSION CONTROL MEASURES E CONDITIONS MERIT THEM.
- 13. THIS LIST IS NOT INTENDED TO BI IDENTIFY THE GENERAL NOTES ID PART OF THE STORMWATER MAN CITY'S STORMWATER MANAGEME ACTIVITIES.
- 14. CONTRACTOR SHALL MINIMIZE TH MAINTAINED TO ONE LANE. IF CO OTHER LANE, CONTRACTOR IS RE REPLACEMENT OF ASPHALT INTO COST TO THE OWNER.

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L MEASURES FOR SLOPES, CHANNELS, AND AREA SHALL BE COMPLETED WITHIN <b>14</b> GRADING OR THE FINAL EARTH DISTURBANCE T IS NOT POSSIBLE TO PERMANENTLY AFTER AN EARTH DISTURBANCE HAS BEEN ICANT EARTH DISTURBANCE ACTIVITY CEASES, NTROL MEASURES SHALL BE IMPLEMENTED MPORARY EROSION CONTROL MEASURES ERMANENT SOIL EROSION MEASURES ARE ACHIEVED WHEN ALL EARTH DISTURBING EEN COMPLETED, AND UNIFORM VEGETATIVE O WITH AN INDIVIDUAL PLANT DENSITY OF AT TURBANCE LEVELS, OR EQUIVALENT		Α
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CLE TRACKING PADS WHERE VEHICLES WILL BE ADWAY. IN ADDITION TO THE INSTALLATION OF TRACTOR SHALL BE RESPONSIBLE FOR TREETS OF MUD OR DEBRIS DUE TO ATED BY SAID CONTRACTOR ON A DAILY BASIS Y AUTHORIZED CITY REPRESENTATIVE. G CONSTRUCTION ALIGNMENT AND OF DISTURBED AREAS SHALL BE PROTECTED		D
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EGETATED. ANY AND ALL STOCKPILES SHALL FROM EROSIVE ELEMENTS. REQUIRING SURFACING (PAVEMENT, GRAVEL, JLCHED OR SODDED PER THE ESC DRAWINGS CTION.		E
L BE INSTALLED ON ALL DISTURBED AREAS IMPROVEMENTS ARE NOT SCHEDULED FOR OR LOCAL JURISDICTIONAL STANDARDS. ROUS, DROUGHT TOLERANT, NATIVE SPECIES IS SECTION 32 92 00). PROJECT SCHEDULING SPRING OR FALL PLANTING SEASONS FOR EEDED AREAS SHALL BE IRRIGATED, IF		
SHALL BE MAINTAINED AND/OR WATERED TO ON. EARTHWORK OPERATIONS SHALL BE DUST SIGNIFICANTLY IMPACTS ADJACENT COMPLETE OR DISCONTINUED AND DUST FROM TE PROBLEMS, THE CONTRACTOR SHALL TIVE MEASURES AND SHALL CORRECT	PRELIMINARY-NOT FOR CONSTRUCTION	F
ATY. SHALL NOT EXCEED A STEEPNESS OF 2:1 HALL NOT EXCEED 4:1 (4H:1V) IN AREAS TO BE APPROVED UNDER THIS PLAN.		
VIDE ANY ADDITIONAL DUST ABATEMENT AND DEEMED NECESSARY BY THE CITY, SHOULD BE ALL INCLUSIVE, BUT IS INTENDED TO	9191 JAMAICA STREET ENGLEWOOD, COLORADO 80112 303-721-9292	G
IDENTIFIED BY THE CITY TO BE INCLUDED AS NAGMENT PLAN FOR COMPLIANCE WITH THE MENT REQUIREMENTS FOR CONSTRUCTION	datedetailedFEBRUARY 2024V. PONCEdesignedchecked	
TRENCH WIDTH SUCH THAT ASPHALT WORK IS ONTRACTOR EXTENDS TRENCH/OVERCUT INTO RESPONSIBLE FOR REMOVAL AND O CENTER OF THAT LANE AT NO ADDITIONAL	R. BRONG K. LEBRASSE	Н
	City of Thornton	
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