

N:\PROJECTS\HSS RANCH\ENGINEERING\SHSHEET SETS\CD\SF\1PARKER WATER AND SANITATION\91 COVER.DWG, BRIANW, 5/26/2020 4:48 PM

DEVELOPER

HR 935 LLC
7353 SOUTH ALTON WAY
CENTENNIAL, CO 80112
TEL: (303) 770-9111
CONTACT: MATT JANKE



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

PLANNER/
LANDSCAPE
DESIGNER:

PCS GROUP, INC.
200 KALAMATH STREET
DENVER, CO 80233
TEL: (303) 531-4905
CONTACT: JOHN PRESTWICH

SURVEYOR/
ENGINEER:

CVL CONSULTANTS
OF COLORADO, INC.
10333 E. DRY CREEK RD. STE 240
ENGLEWOOD, CO 80112
TEL: (720) 482-9526
CONTACT: JIM JANNICKE

UTILITY
DISTRICT

PARKER WATER AND
SANITATION DISTRICT
18100 E. WOODMAN DRIVE
PARKER, CO 80134
TEL: (303) 841-4627

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00° 15'06" EAST, 2648.70 FEET.

FIRE DEPARTMENT APPROVAL
ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) _____ DATE _____
(NOTE- UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

PREPARED UNDER THE
SUPERVISION OF



BRIAN P. WILSON
COLORADO P.E. 0050067

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ DATE _____
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)

SHEET NUMBER <

TRAILS AT CROWFOOT
FILING 1B CONSTRUCTION DRAWINGS
COVER SHEET

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112



CVL
CONSULTANTS

10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546

Revisions	No.	Init.	Appr.	Date

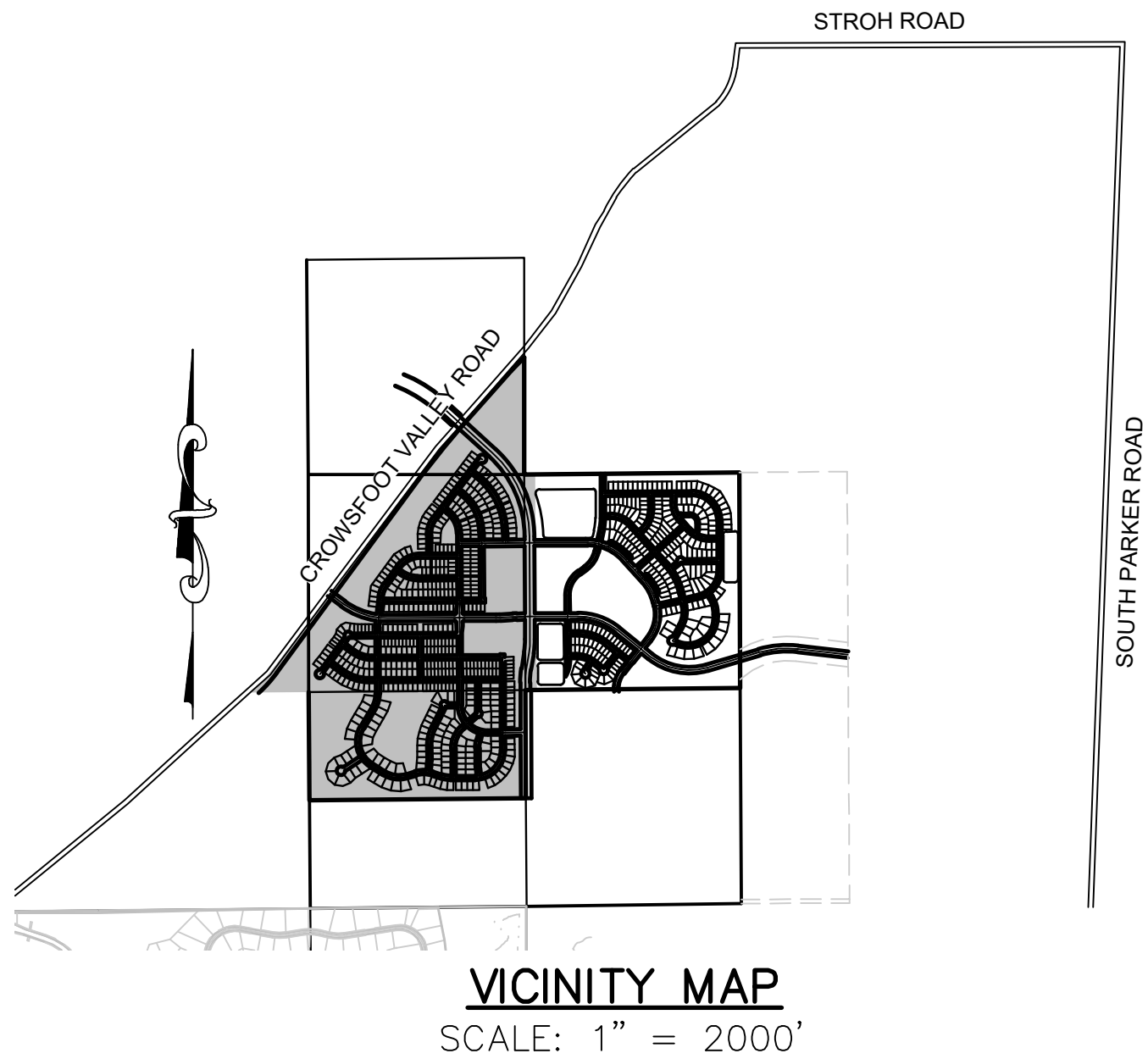
TRAILS AT CROWFOOT FILING 1B

PARKER WATER AND SANITATION CONSTRUCTION PLANS

SECTIONS 4, 8, AND 9 TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN COUNTY OF DOUGLAS, STATE OF COLORADO

SHEET LIST	
SHEET #	SHEET TITLE
1	COVER SHEET
2	NOTES
3	AREA UTILITY PLAN
4	SCARLET SAGE AVE SANITARY
5	NORTH PINERY PARKWAY WATER P&P
6	NORTH PINERY PARKWAY WATER P&P
7	NORTH PINERY PARKWAY WATER P&P
8	SANITARY SEWER DETAILS
9	SANITARY SEWER DETAILS
10	SANITARY SEWER DETAILS
11	WATER DETAILS
12	WATER DETAILS
13	WATER DETAILS
14	WATER DETAILS
15	WATER DETAILS
16	WATER DETAILS
17	WATER DETAILS

MATERIAL LIST		
DESCRIPTION	QUANTITY	UNIT
8" SEWER (PVC)	91	L.F.
8" SEWER CAP	2	EA.
4' DIA. MANHOLE	1	EA.
INTERMEDIATE PLATFORM	0	EA.
4" SEWER SERVICE	0	EA.
20" STEEL CASING	0	L.F.
CONNECTION TO EXISTING MAIN	0	EA.
6" WATERPIPE (DIP)	19	L.F.
8" WATERPIPE (PVC)	90	L.F.
12" WATERPIPE (PVC)	2,463	L.F.
16" WATERPIPE (DIP)	0	L.F.
6" GATE VALVE	1	EA.
8" GATE VALVE	2	EA.
12" GATE VALVE	2	EA.
16" BUTTERFLY VALVE	0	EA.
8" MISC. FITTINGS	0	EA.
12" MISC. FITTINGS	12	EA.
16" MISC. FITTINGS	0	EA.
AIR / VACUUM VALVE	0	EA.
8" CAP WITH BLOW OFF	2	EA.
12" CAP WITH BLOW OFF	0	EA.
2" BLOW OFF VALVE (8" LINE-LOW POINT)	0	EA.
6" BLOW OFF VALVE (16" LINE-LOW POINT)	0	EA.
FIRE HYDRANTS WITH 6" LEAD	1	EA.
IRRIGATION SERVICE W/ METER(2")	0	EA.
DOMESTIC WATER SERVICE W/ METER	0	EA.
20" STEEL CASING	0	L.F.
CONNECTION TO EXISTING MAIN	2	EA.



1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER, DOUGLAS COUNTY AND OTHER NEIGHBORING CITIES AND TOWNS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
3. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSD IMMEDIATELY.
4. PWSD ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
6. ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.
7. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE PRINTS SHALL BE TRANSMITTED TO THE PWSD OFFICE.
8. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
9. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
10. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
11. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SERVICE SEWERS "V" FOR WATER SERVICES
13. NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
14. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISION.
2. ALL WATER MAINS SHALL BE PER PWSD MATERIALS SPECIFICATIONS. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE SUITABLE FOR CHLORINATED AND CHLORAMINATED WATER.
3. ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED PER PWSD MATERIALS SPECIFICATIONS.
4. THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
5. FIRE HYDRANTS SHALL CONFORM TO AWWA C-502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES PER PWSD SPECIFICATIONS.
6. ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT MAINS SHALL BE PROTECTED FROM ABUSE WITH CONCRETE THRUST BLOCKS.
7. PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAYS WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS.
8. VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES; WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING TEE. OTHER LOCATIONS SHOWN ON THE PLANS.
9. WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.5 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
10. THE CONTRACTOR SHALL NOTIFY THE PWSD AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE-START.
11. PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PWSD STANDARDS AND SPECIFICATIONS, LATEST REVISION.
12. THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANY AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES.
13. COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
14. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR, DESIGN ENGINEER, AND REPRESENTATIVE OF OTHER APPROVING AGENCIES.
15. CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PWSD SPECIFICATIONS. CHLORINATION OF FINISHED PIPELINE COMPLETED BEFORE HYDROSTATIC TESTING.
16. HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PWSD SPECIFICATIONS UP TO MINIMUM OF 150 PSI IN THE PRESENCE OF A PWSD INSPECTOR/ENGINEER.

1. ALL MATERIALS AND WORKSMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
2. ALL SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.
3. SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PWSD SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.
4. SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
5. THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.
6. NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
7. SEWER SERVICE TEES FOR EACH LOT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.
8. ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
9. PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.
10. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
11. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.
12. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PWSD STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
13. PRIOR TO STARTING WORK WHERE SEWER MAIN IS TO BE CONNECTED TO EXISTING PWSD SEWER SYSTEMS, THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL PROBATIONARY ACCEPTANCE BY PWSD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE DISTRICT.
14. PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CONTRACTOR SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

 CALL 811
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BEFORE YOU DIG
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UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

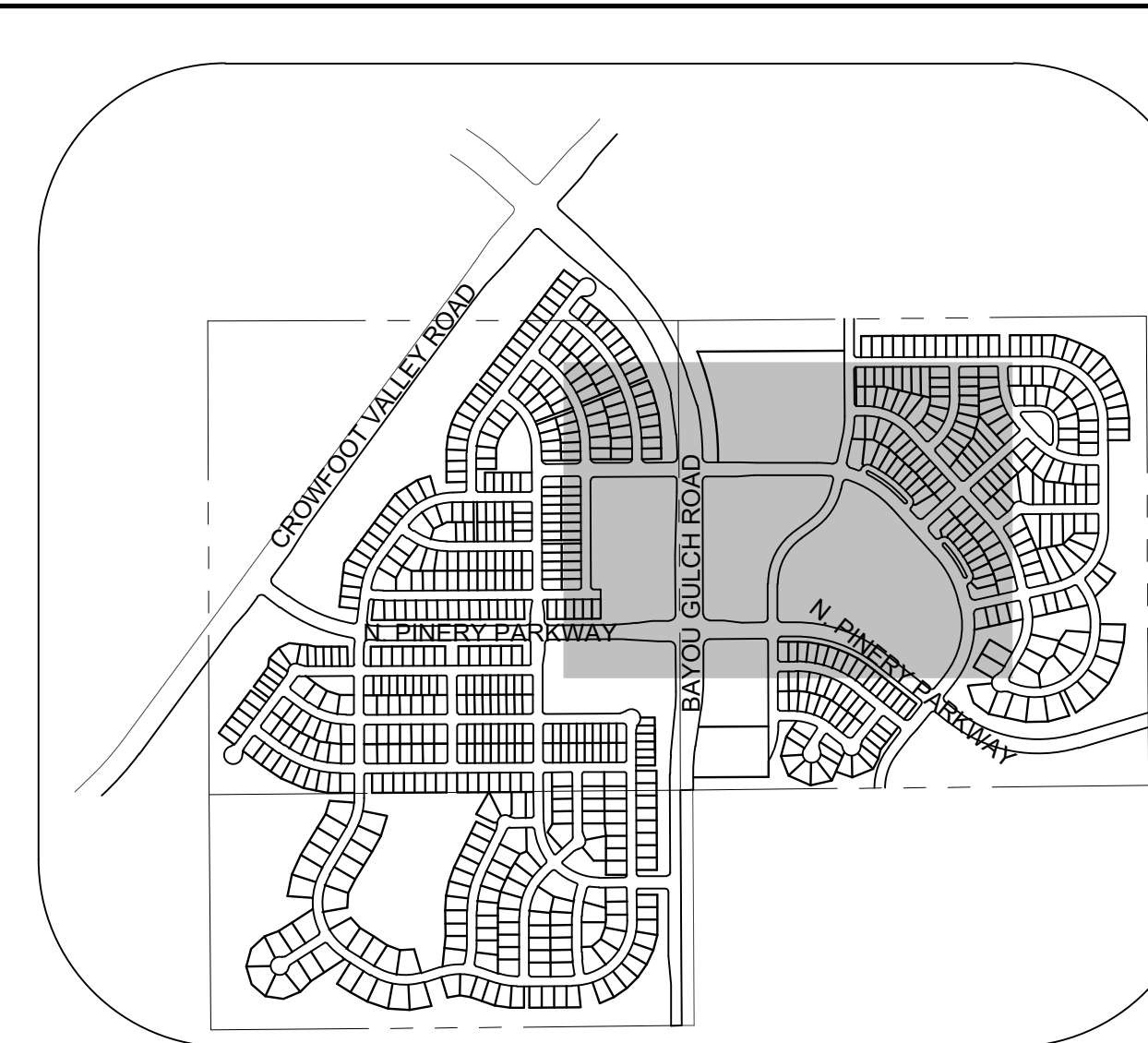
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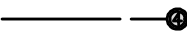
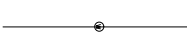
PREPARED UNDER THE
SUPERVISION OF



BRIAN P. WILSON
COLORADO P.E. 0050067

2 SHEET NUMBER	DRAWN BY:	SCALE:	TRAILS AT CROWFOOT FILING 1B CONSTRUCTION DRAWINGS PARKER WATER AND SANITATION NOTES	 CVL CONSULTANTS 10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	HR 935 LLC 7353 South Allen Way CENTENNIAL, CO 80112	No. Revisions Date Init. Appr.
	CHECKED BY:	AS SHOWN				
	DATE:	FILE NO:				



	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE		PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT		EXISTING 5' CONTOUR
	PROPOSED W/L FITTING WITH THRUST BLOCK		EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION		PROPOSED 5' CONTOUR
	PROPOSED LOW POINT BLOW-OFF		PROPOSED 1' CONTOUR
	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE		PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION		EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET		EXISTING OVERHEAD POWER
	PROPOSED STORM DRAIN MANHOLE		EXISTING TELEPHONE LINE

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGN, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____



AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FG	FIRE HYDRANT	SL	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

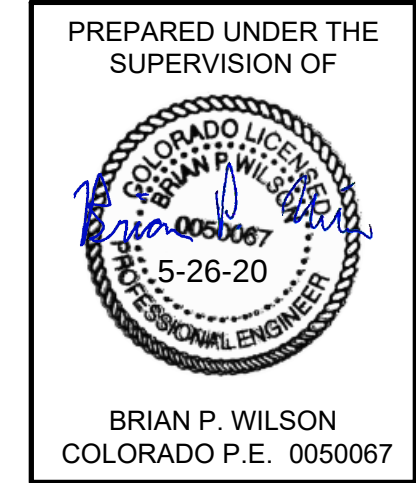
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(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) _____ DATE _____

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BENCHMARK
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REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT
STANDARDS.

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____
(DISTRICT ENGINEER)

SHEET NUMBER 3	DRAWN BY: JLR		SCALE: AS SHOWN	TRAILS AT CROWFOOT FILING 1B CONSTRUCTION DRAWINGS AREA UTILITY PLAN	 HR 935 LLC 7333 South Allon Way CENTENNIAL, CO 80112	 CVL CONSULTANTS	10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546								
	CHECKED BY: BRW						FILE NO: 8130283701								
	DATE: MAY 2020														

N:\PROJECTS\HSS RANCH\ENGINEERING\SSHEET SET\CD\SF\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\9 SCARLET SAGE AVE SANITARY DWG.BRIANW. 5/21/2020 9:28 AM



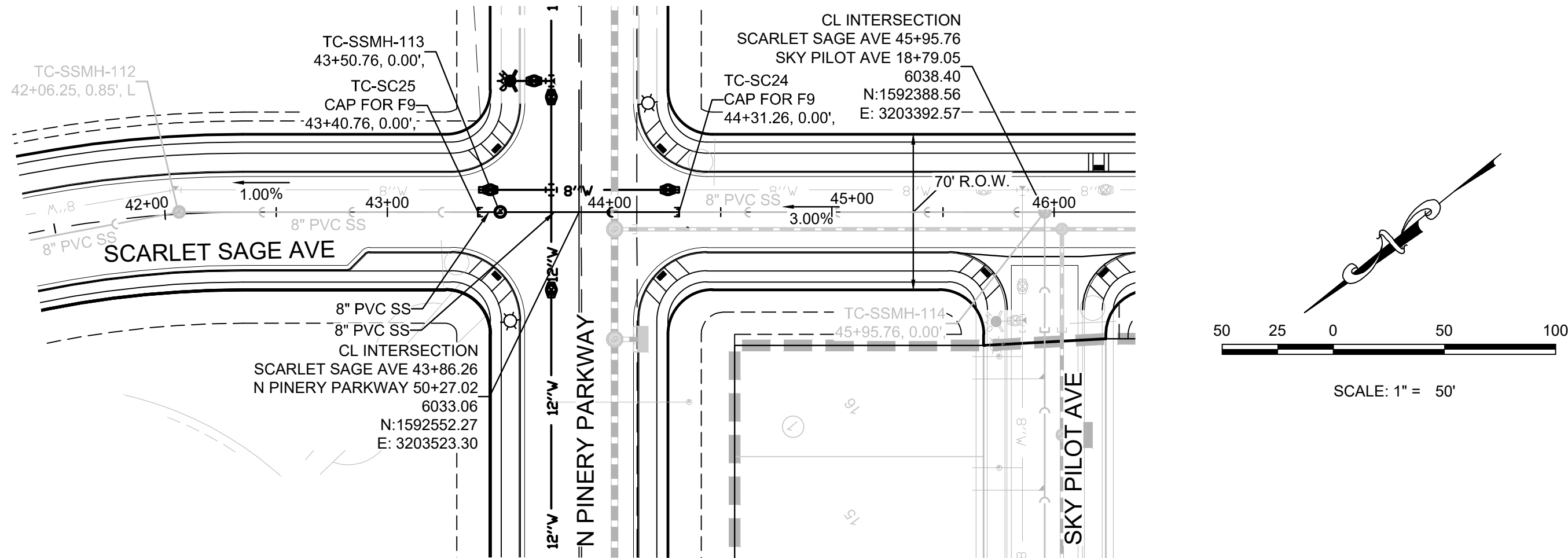
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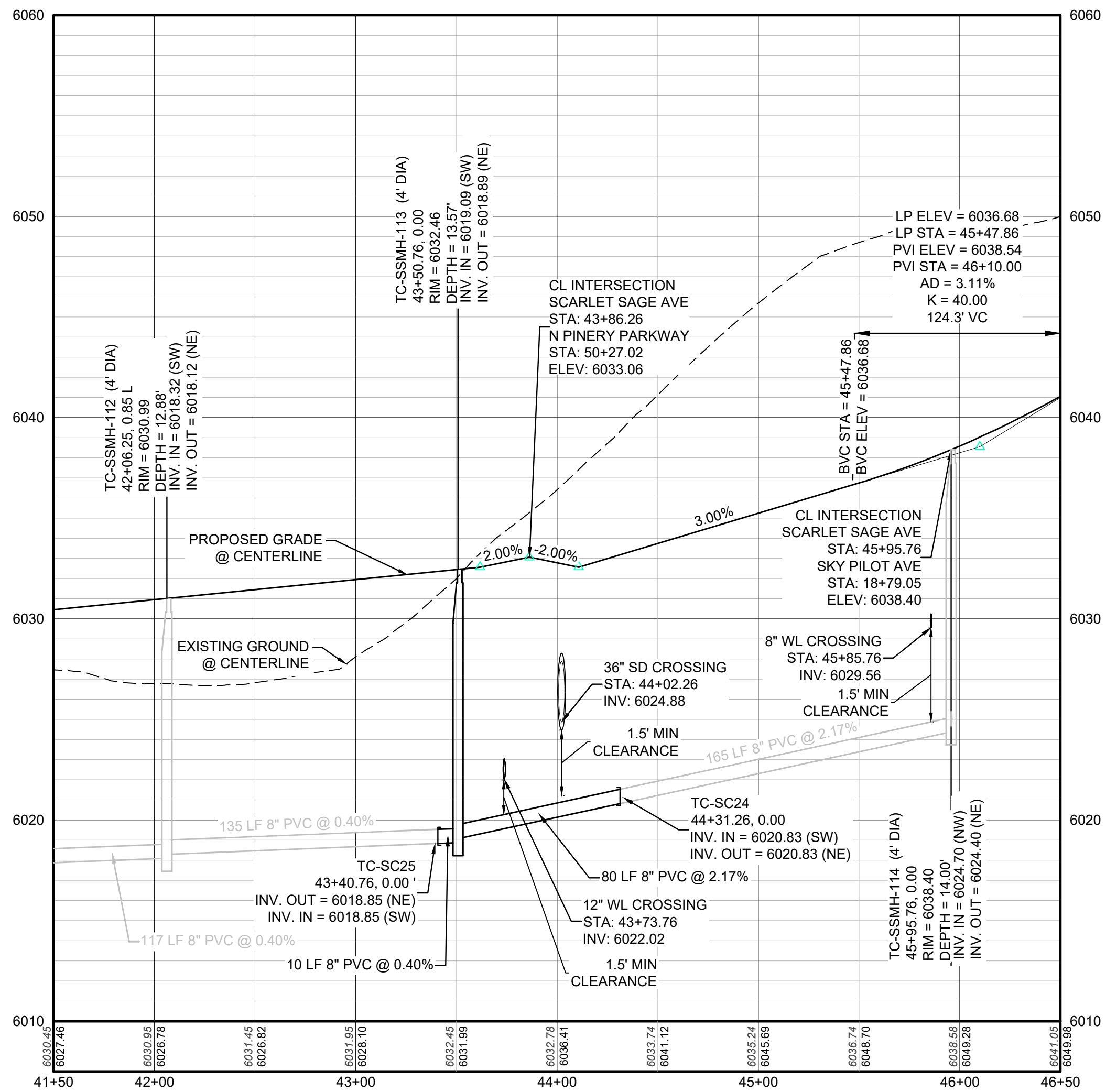
TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987



PLAN: SCARLET SAGE AVE STA: 37+50.00 TO 46+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SCARLET SAGE AVE STA: 41+50.00 TO 46+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

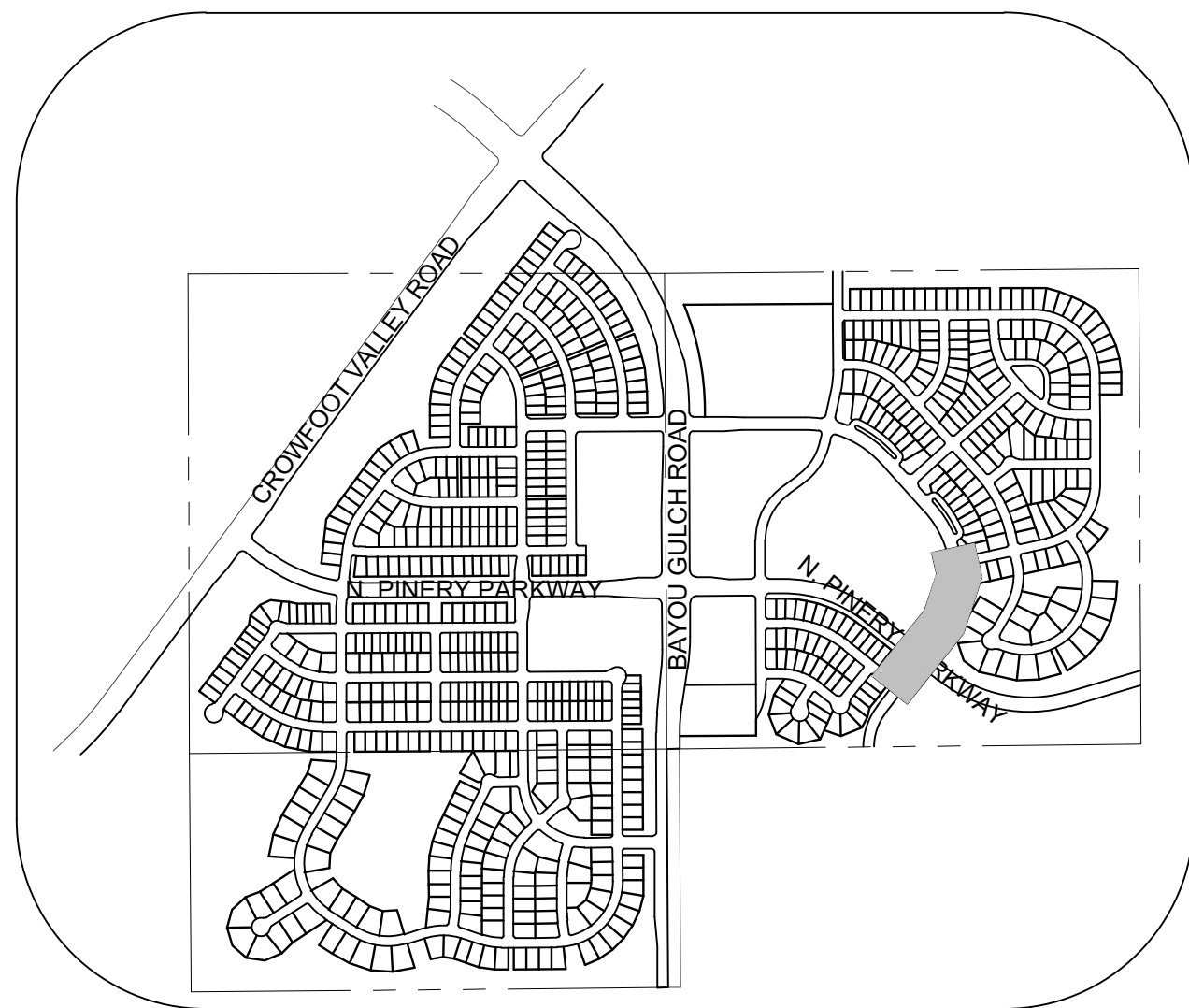
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PREPARED UNDER THE
SUPERVISION OF



BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.

② BLOCK NUMBER

Ⓐ LOT TYPE

6 PROPOSED BUTTERFLY VALVE

PROPOSED CAP WITH END OF LINE BLOWOFF

PROPOSED REDUCER

PROPOSED VALVE

PROPOSED FIRE HYDRANT

PROPOSED WL FITTING WITH THRUST BLOCK

PROPOSED FLARED END SECTION

PROPOSED LOW POINT BLOW-OFF

PROPOSED AIR VALVE

FUTURE PHASE VALVE

FUTURE FIRE HYDRANT

PROPOSED LIGHT POLE

PROPOSED SIDEWALK RAMP

10.00 EXISTING ELEVATION

10.00 PROPOSED DESIGN ELEVATION

PROPOSED STORM DRAIN INLET

PROPOSED STORM DRAIN MANHOLE

△ PROPOSED RANGE POINT

--- CENTERLINE

--- RIGHT-OF-WAY

--- PROPERTY LINE

--- EDGE OF PAVEMENT

→ PROPOSED DIRECTION OF FLOW

1.0% PROPOSED SLOPE & DIRECTION

5615 EXISTING 5' CONTOUR

5616 EXISTING 1' CONTOUR

5620 PROPOSED 5' CONTOUR

5607 PROPOSED 1' CONTOUR

--- PROPOSED STORM DRAIN

--- PROPOSED SEWER LINE WITH MANHOLE

--- PROPOSED SEWER LATERAL

--- PROPOSED WATER LINE

--- PROPOSED WATER LATERAL W/ METER

--- SECTION LINE

--- FILING BOUNDARY

--- FO EXISTING FIBER

--- OH EXISTING OVERHEAD POWER

--- TEL EXISTING TELEPHONE LINE

AD ANGLE DIFFERENCE

AV AIR VAC RELEASE VALVE

BVC BEGIN VERTICAL CURVE

BVP BEGIN VERTICAL PROFILE

CBO CAP WITH BLOW OFF

CRR CURB RETURN RADIUS

EL ELEVATION

EP EDGE OF PAVEMENT

EVC END VERTICAL CURVE

EVP END VERTICAL PROFILE

FG FINISHED GROUND

FH FIRE HYDRANT

FL FLOW LINE

GV GATE VALVE

HCR HANDICAP CURB RAMP

HP HIGH POINT

INV INVERT

K CURVATURE COEFFICIENT

LF LINEAR FEET

MH MANHOLE

N.T.S. NOT TO SCALE

PVC POLYVINYL CHLORIDE

PVI PT. OF VERTICAL INTERSECTION

PVT POINT OF VERTICAL TANGENT

RCBC REINFORCED CONCRETE BOX CULVERT

RCPP REINFORCED CONCRETE PIPE

ROW RIGHT OF WAY

SC SANITARY CAP

SD STORM DRAIN

SL SECTION LINE

SS SANITARY SEWER

STA STATION

T.O.P. TOP OF PIPE

UE UTILITY EASEMENT

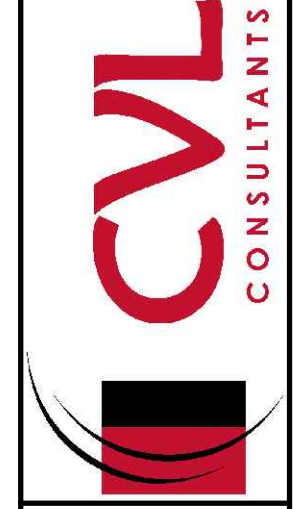
VC VERTICAL CURVE

WL WATER LINE

WLC WATER LINE CONNECTION

WSE WATER SURFACE ELEVATION

10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

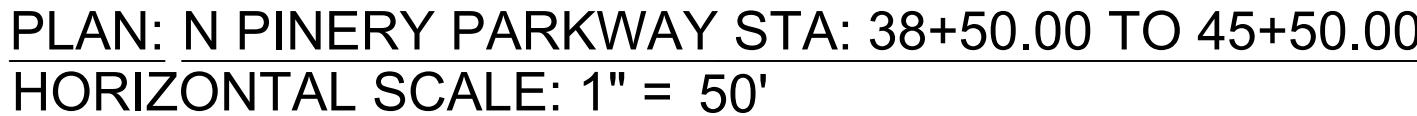
TRAILS AT CROWFOOT
FILING 1B CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SCARLET SAGE AVE

SCALE: AS SHOWN
FILE NO: 8130283701

DRAWN BY: KJD
CHECKED BY: BPW
DATE: MAY 2020

SHEET NUMBER 4

Revisions
No. Date Init. Appr. Date

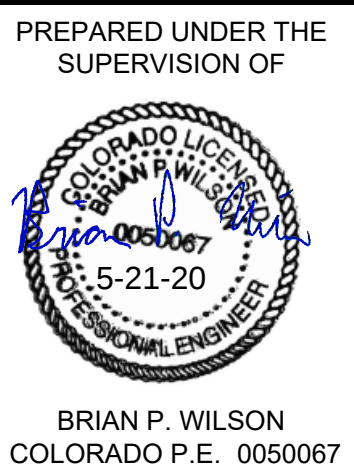


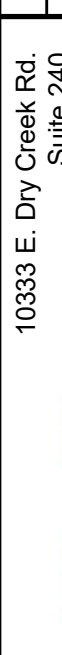
- ## ABBREVIATIONS

- | | | | |
|-----|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | MH | MANHOLE |
| AV | AIR VAC RELEASE VALVE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PVC | POLYVINYL CHLORIDE |
| BVP | BEGIN VERTICAL PROFILE | PVI | POINT OF VERTICAL INTERSECTION |
| CBO | CAP WITH BLOW OFF | PVT | POINT OF VERTICAL TANGENT |
| CRR | CURB RETURN RADIUS | RCBC | REINFORCED CONCRETE BOX CULVERT |
| EL | ELEVATION | RPC | REINFORCED CONCRETE PIPE |
| EP | EDGE OF PAVEMENT | ROW | RIGHT OF WAY |
| EVC | END VERTICAL CURVE | SC | SANITARY CAP |
| EVP | END VERTICAL PROFILE | SD | STORM DRAIN |
| FG | FINISHED GROUND | SL | SECTION LINE |
| FLH | FIRE HYDRANT | SS | SANITARY SEWER |
| FL | FLOW LINE | STA | STATION |
| GV | GATE VALVE | T.O.P. | TOP OF PIPE |
| HCR | HANDICAP CURB RAMP | UE | UTILITY EASEMENT |
| HP | HIGH POINT | VC | VERTICAL CURVE |
| INV | INVERT | WL | WATER LINE |
| K | CURVATURE COEFFICIENT | WLC | WATER LINE CONNECTION |
| LF | LINEAR FEET | WSE | WATER SURFACE ELEVATION |

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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SHEET NUMBER 5	DRAWN BY: RHR CHECKED BY: BWP DATE: MAY 2020	TRAILS AT CROWFOOT FILING 1B CONSTRUCTION DRAWINGS WATER PLAN & PROFILE NORTH PINERY PARKWAY	HR 935 LLC 7355 South Alton Way CENTENNIAL, CO 80112	 10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	No.	Revisions	Date	Init.	Appr.		

N:\PROJECTS\SSR RANCH\ENGINEERING\SSR SETS\CD\SSR PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\1A NORTH PINERY PARKWAY WATER.DWG, BRIAN.W 5/26/2020 5:19 PM

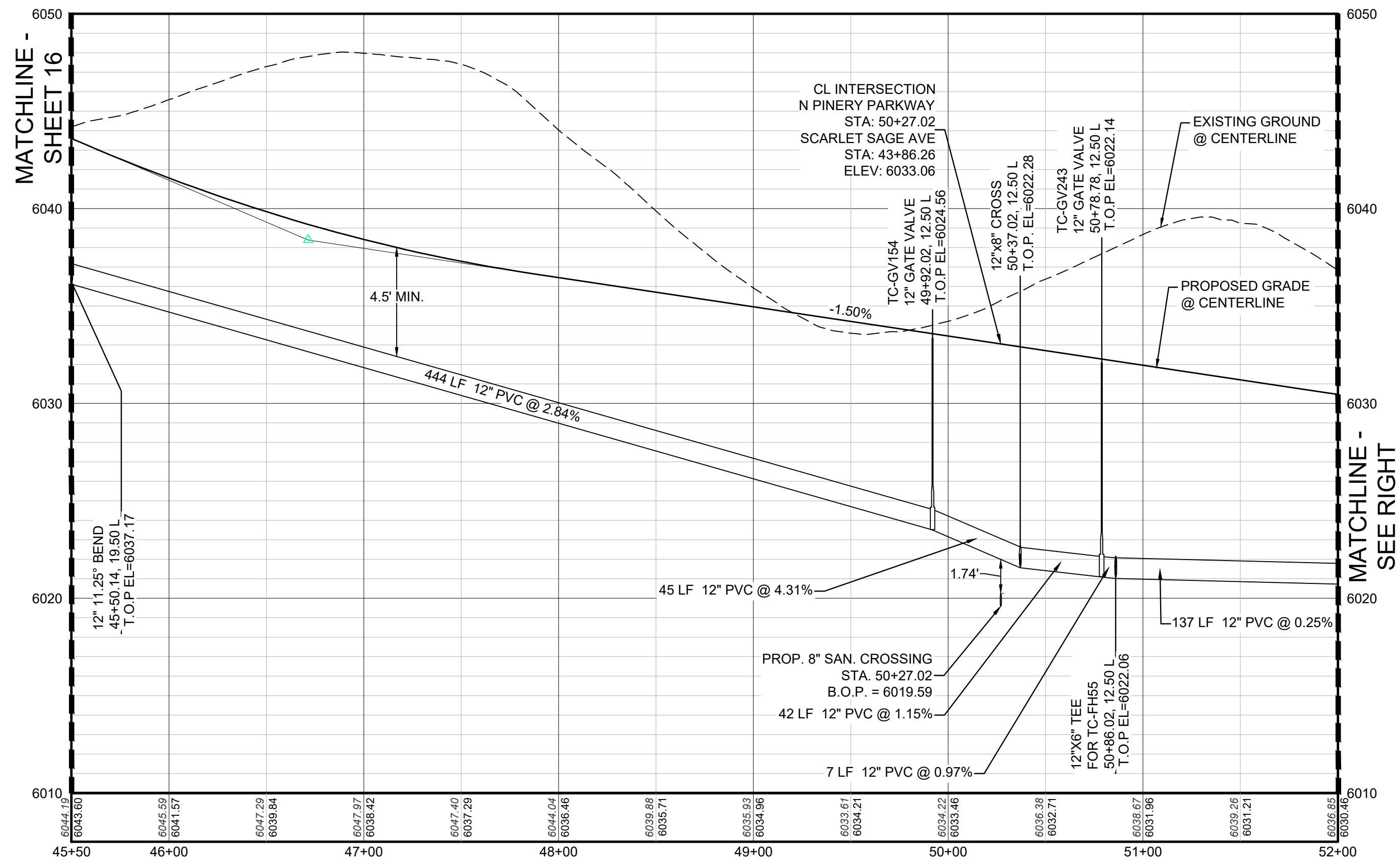


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UTILITY NOTIFICATION
CENTER OF COLORADO

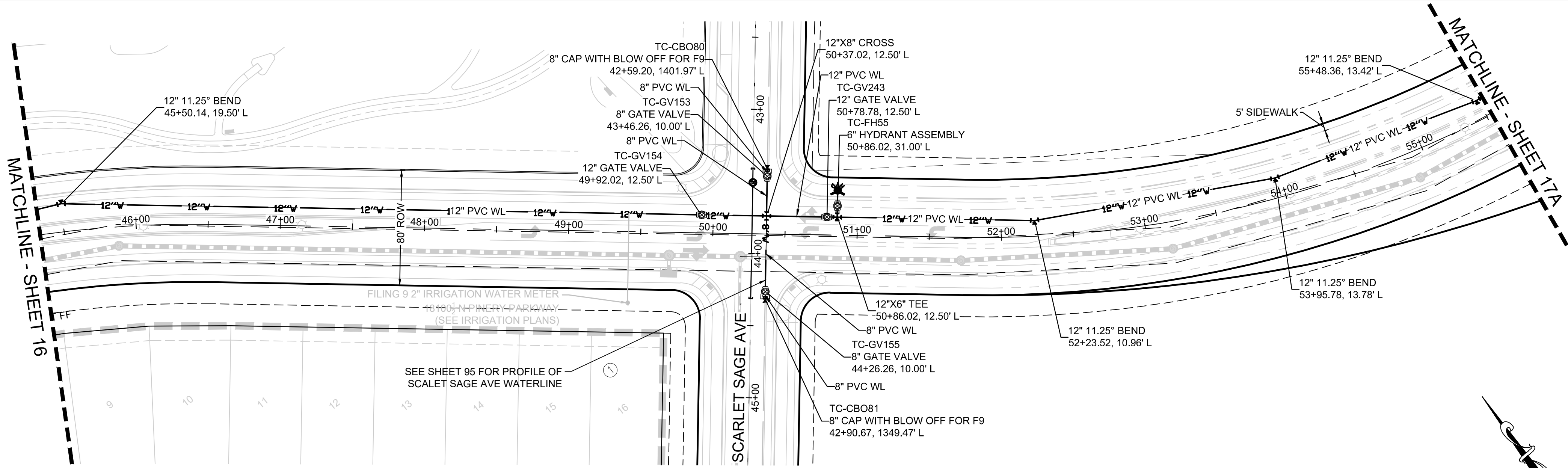
CALL 811

TWO WORKING DAYS
BEFORE YOU DIG

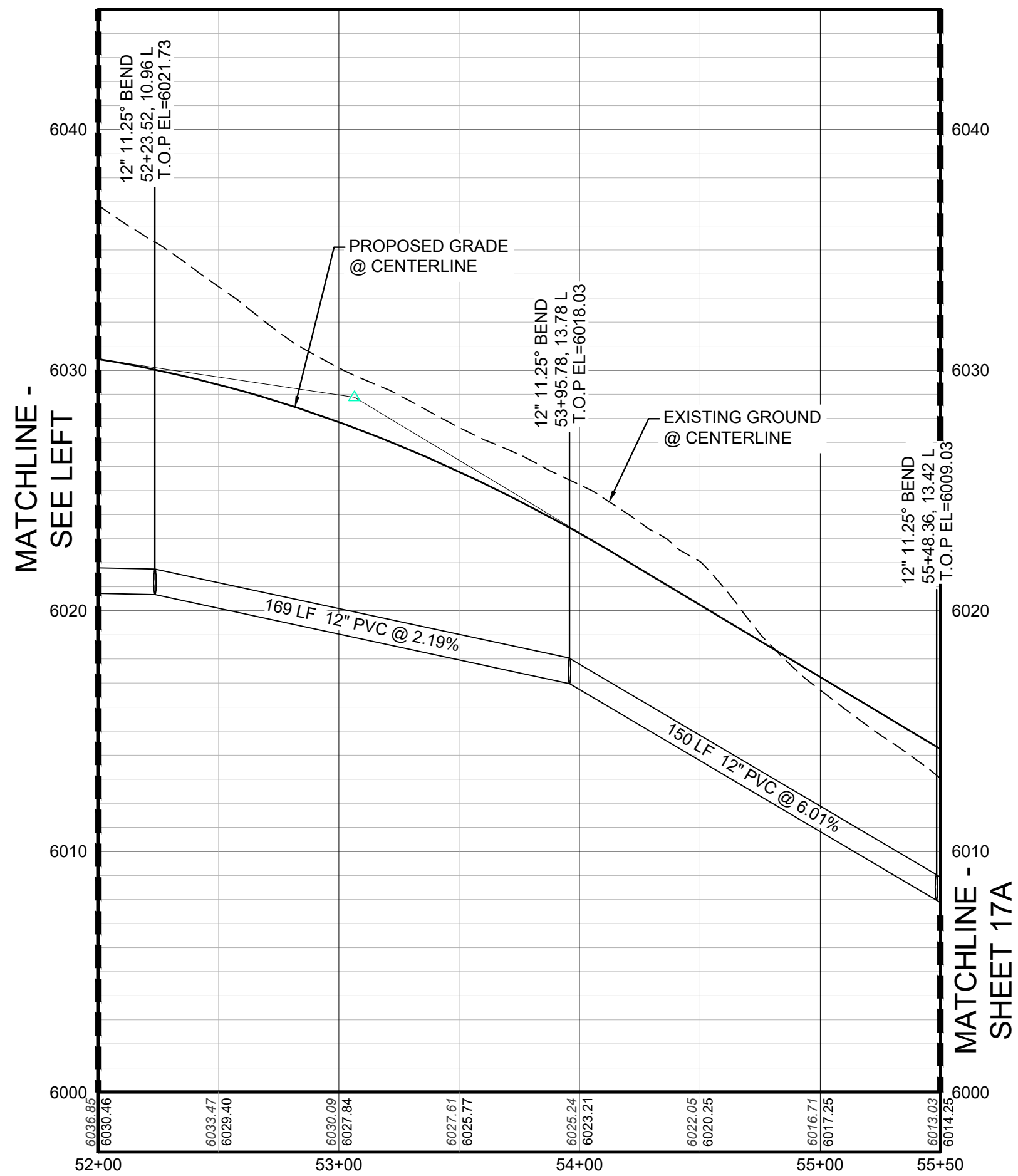
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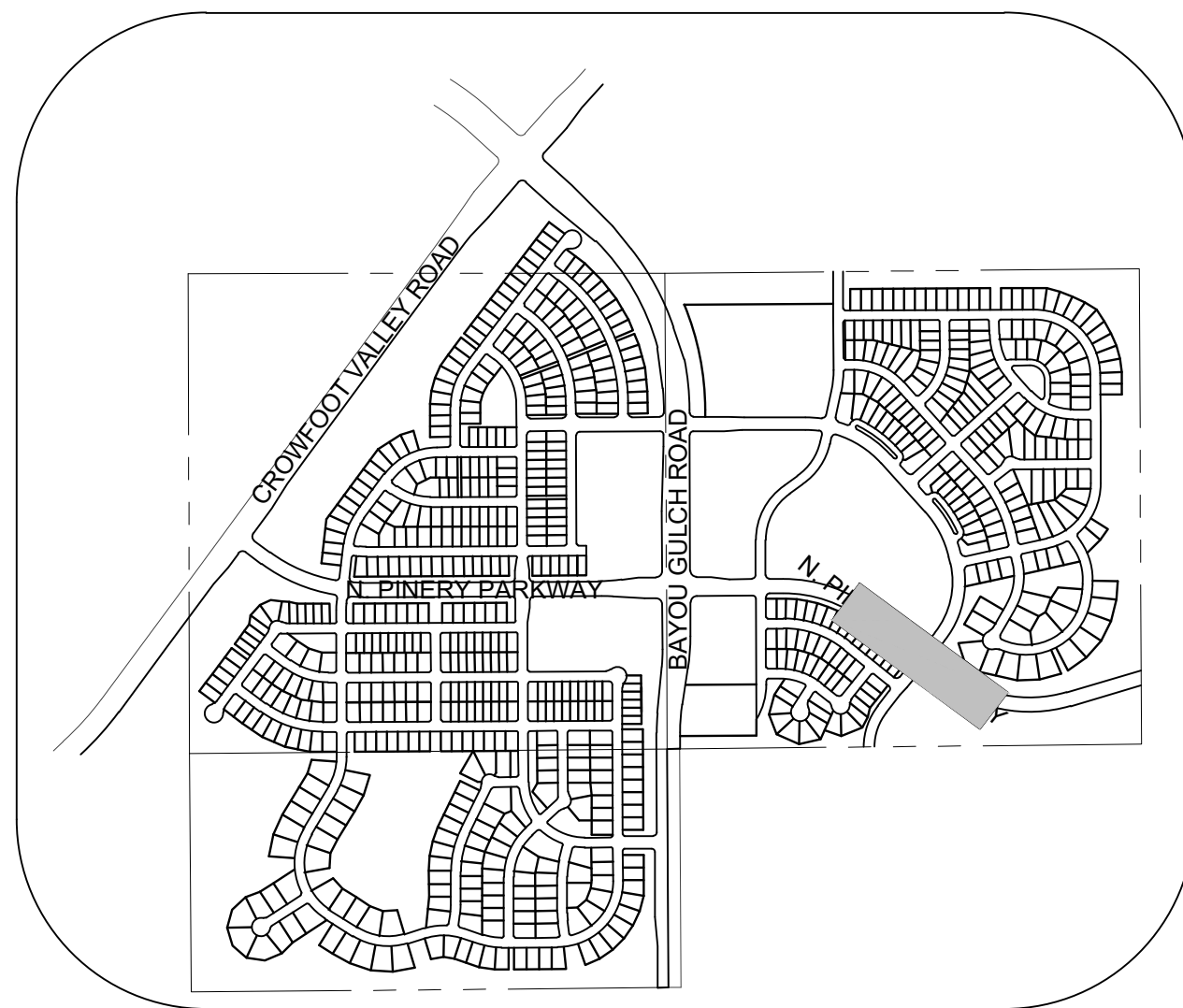
PROFILE: N PINERY PARKWAY STA: 45+50.00 TO 52+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PLAN: N PINERY PARKWAY STA: 45+50.00 TO 51+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: N PINERY PARKWAY STA: 52+00.00 TO 55+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



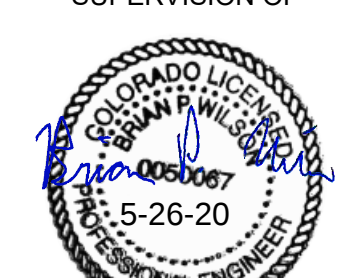
KEYMAP
N.T.S.
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⌈	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⌋	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊗	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊗	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
⊗	PROPOSED WL FITTING WITH THRUST BLOCK	---	EXISTING 1' CONTOUR
⌈	PROPOSED FLARED END SECTION	---	PROPOSED 5' CONTOUR
⊗	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 1' CONTOUR
⊗	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊗	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊗	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊗	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊗	PROPOSED SIDEWALK RAMP	---	PROPOSED WATER LATERAL W/ METER
10.00	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊗	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER
⊗	PROPOSED STORM DRAIN MANHOLE	---	OH
		---	EXISTING OVERHEAD POWER
		---	TEL
		---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
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PREPARED UNDER THE SUPERVISION OF

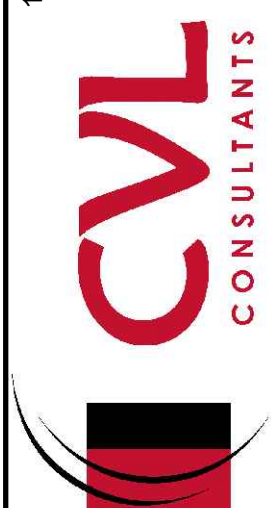


BRIAN P. WILSON
COLORADO P.E. 0050067

BENCHMARK
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Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

SCALE: AS SHOWN

DRAWN BY: RRR

CHECKED BY: BPW

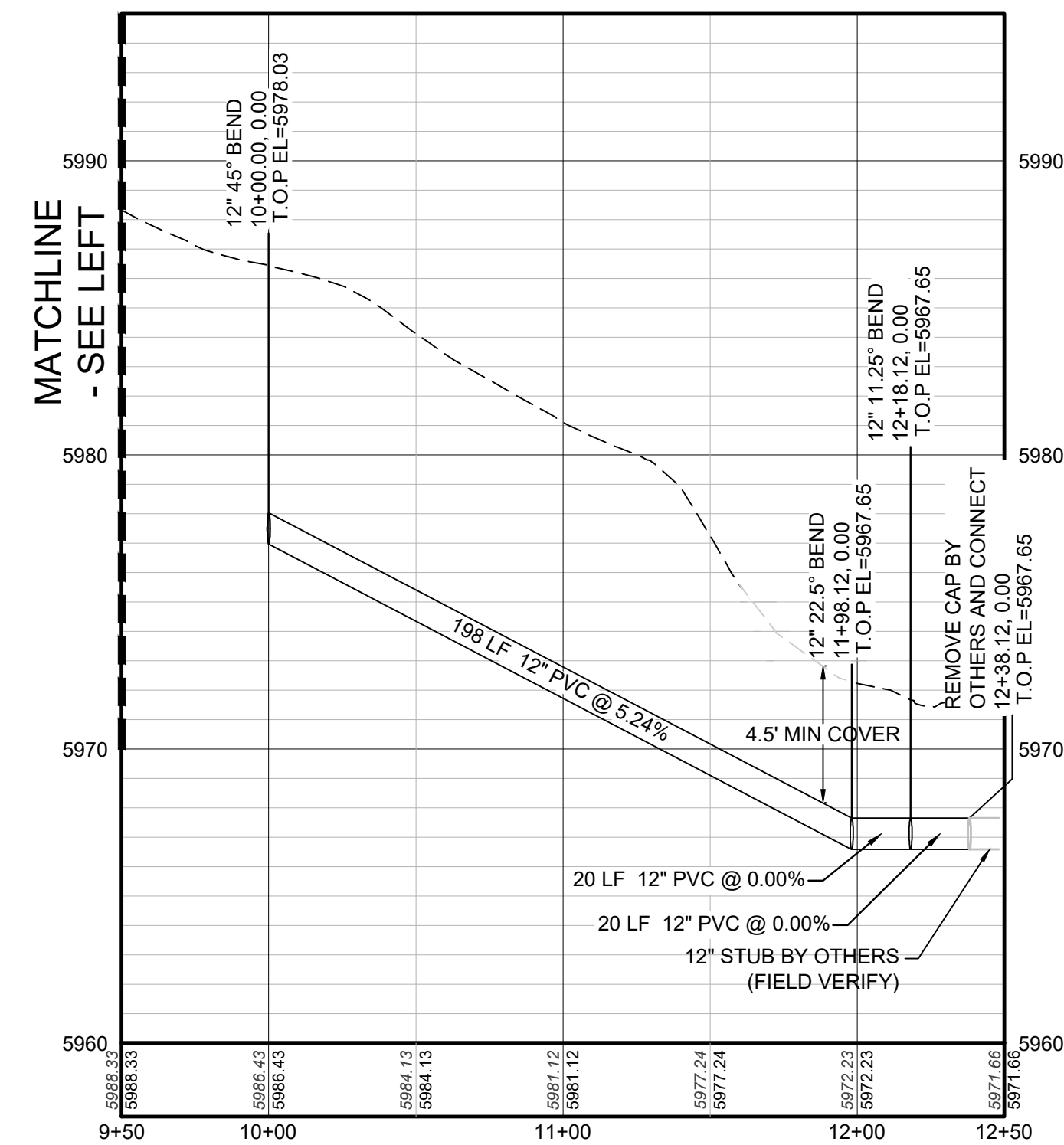
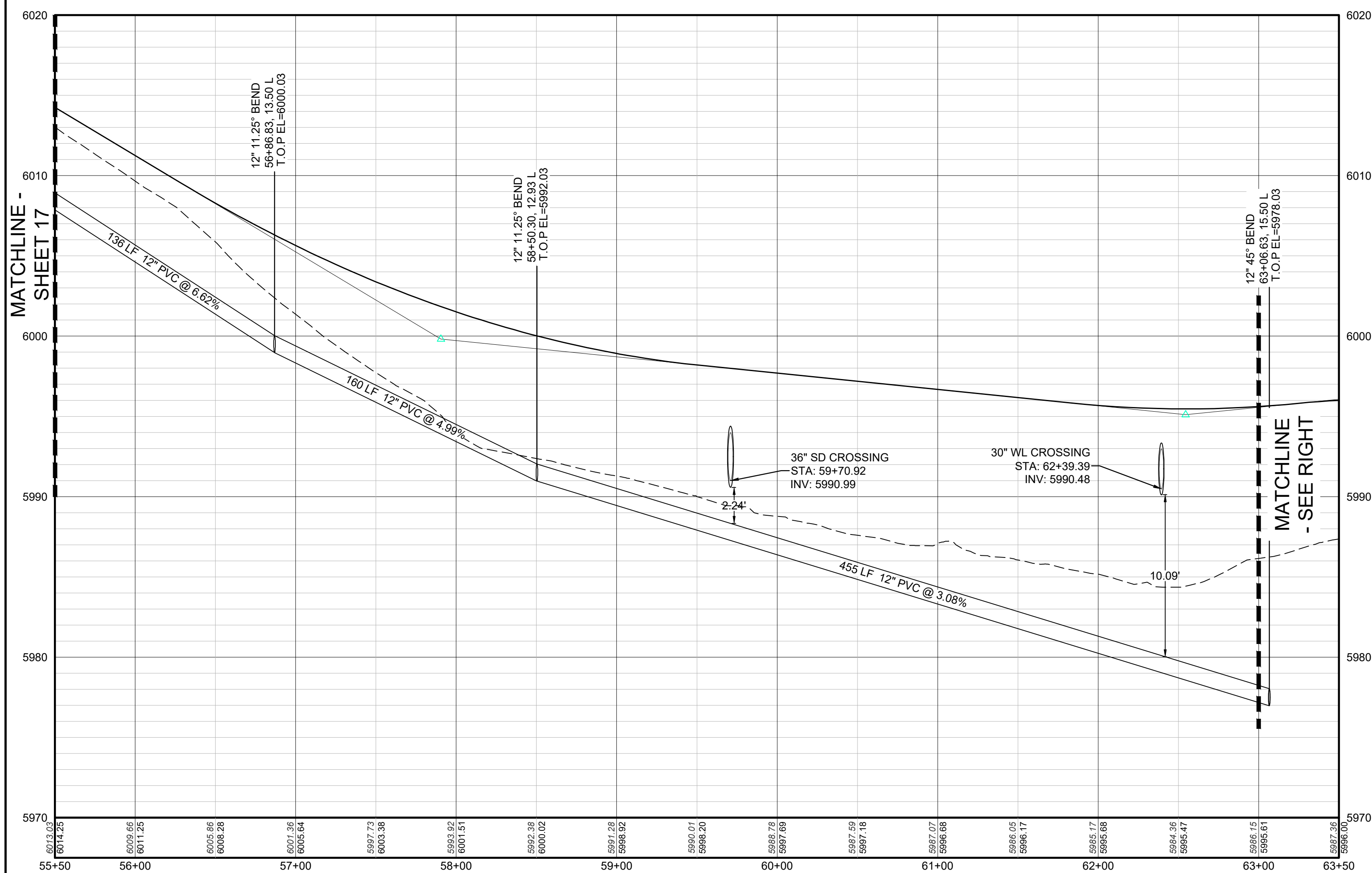
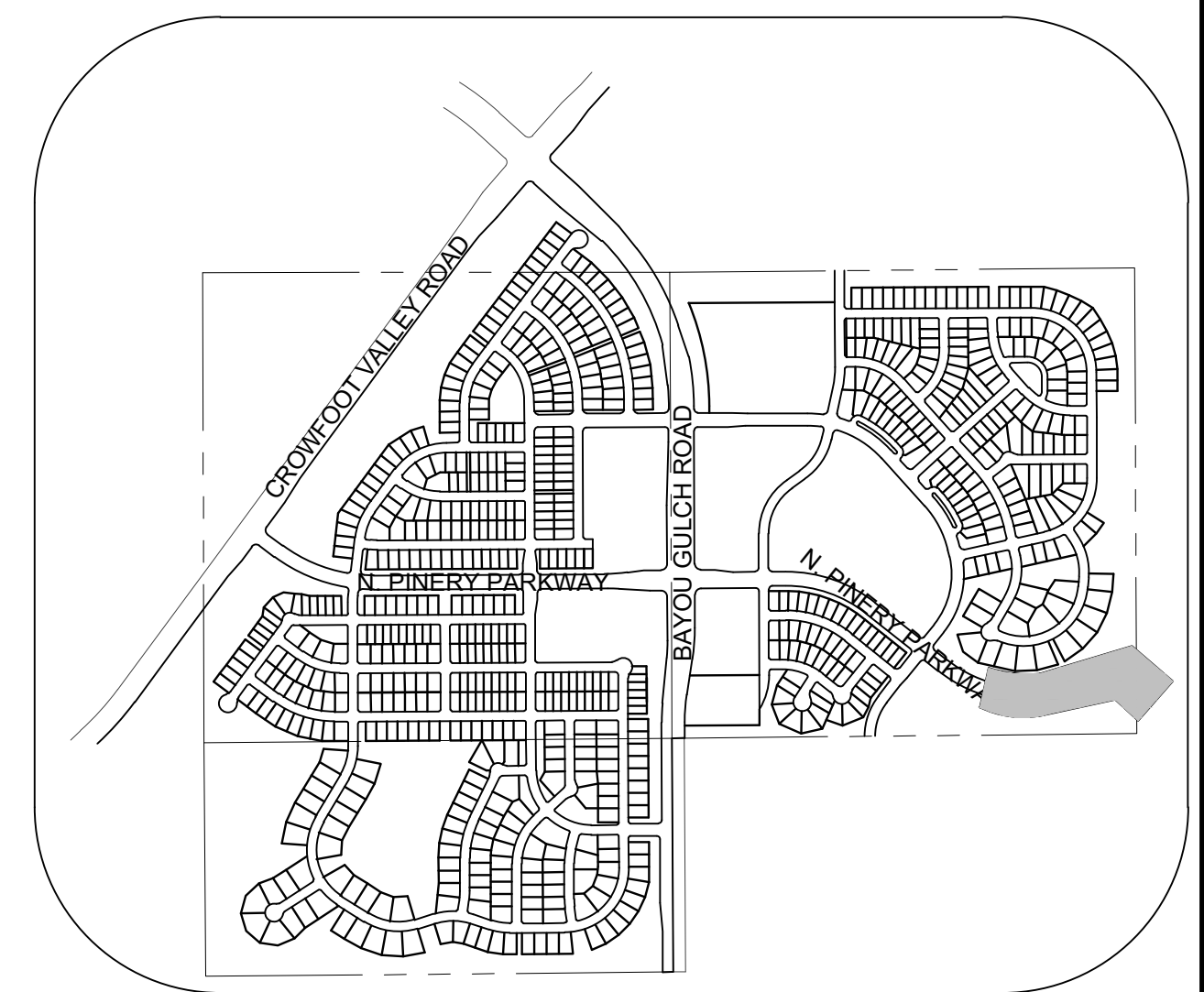
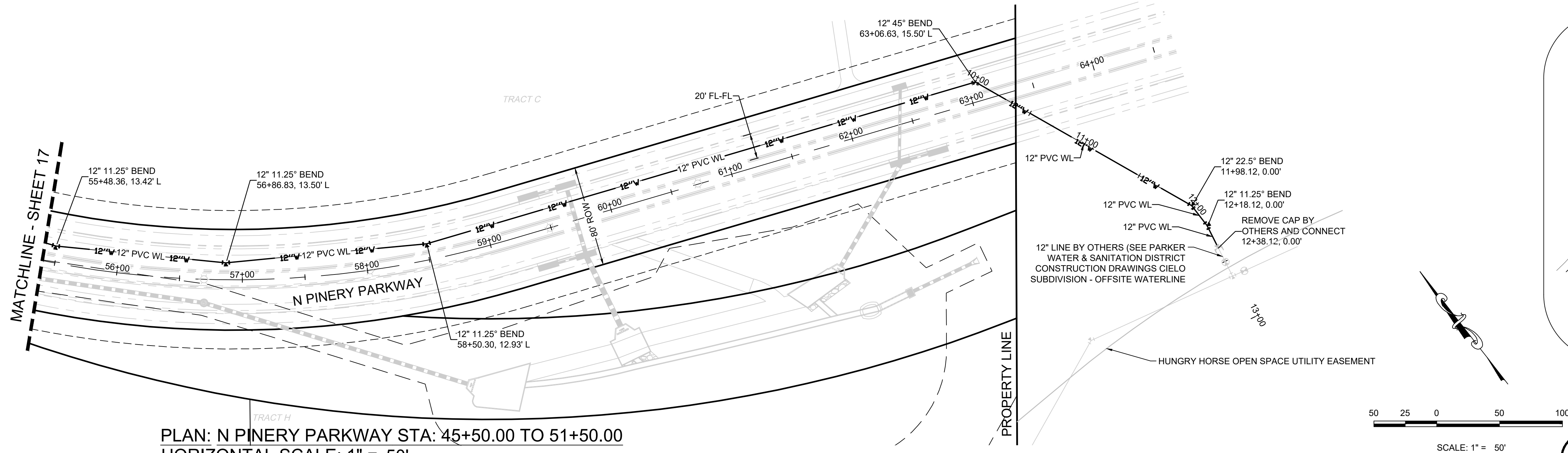
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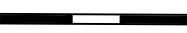
FILE NO: 8130283701

SHEET NUMBER: 6

TRAILS AT CROWFOOT
FILING 1B CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
NORTH PINERY PARKWAY

Revisions
No. Date Init. Appr. Date



	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
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	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE		PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT		EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK		EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION		PROPOSED 5' CONTOUR
	PROPOSED LOW POINT BLOW-OFF		PROPOSED 1' CONTOUR
	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE		PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
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333 E. Dry Creek Rd.
Suite 240
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Tel: (720) 482-9526
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CVL
CONSULTANTS

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
B CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
NORTH PINERY PARKWAY

DRAWN BY:	RHR	SCALE:	AS SHOWN
CHECKED BY:	BPW	FILE NO:	8130283701
DATE:	MAY 2020		

7



UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

BENCHMARK
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PREPARED UNDER THE
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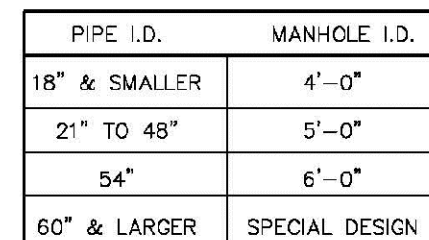
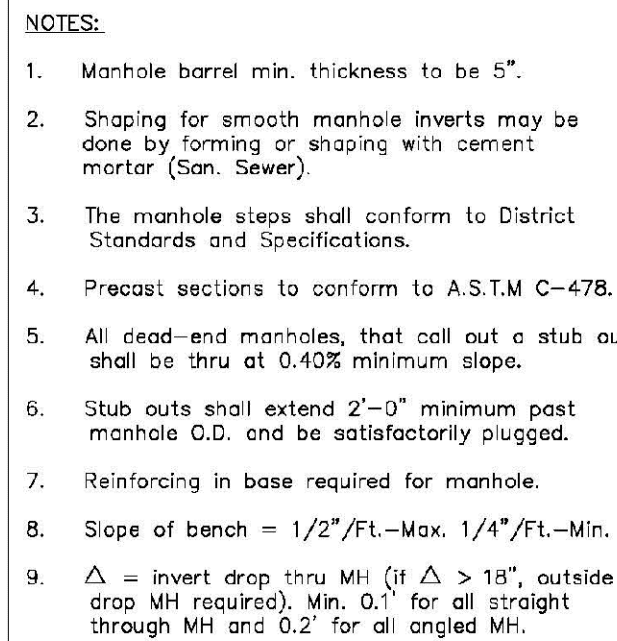
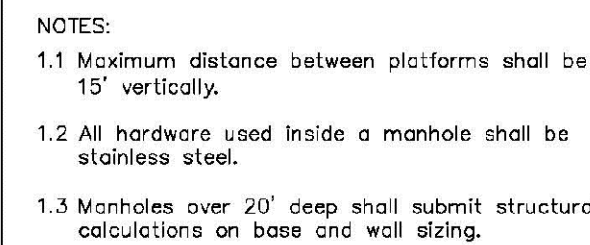
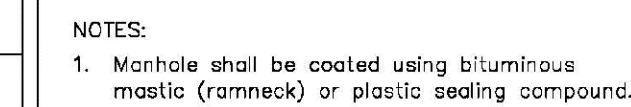
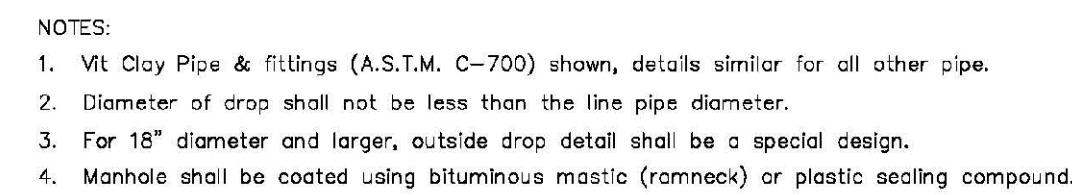
BRIAN P. WILSON
COLORADO P.E. 0050067

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTE 1 ABOVE AND A RE-INSPECTION FEE CHARGED.
3. SHOULD THE SERVICE LINES BE DAMAGED BY FASTER CONSTRUCTION, AN INSPECTION OF THE DAMAGED AREA SHALL BE CONDUCTED WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL FILL AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
5. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
6. LOTS WITHOUT BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

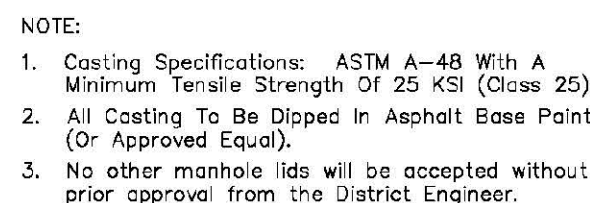
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3".
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS AND EVERY CHANGE IN DIRECTION. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100' UNLESS THERE ARE CHANGES IN DIRECTION. PROVIDE DUAL CLEAN-OUT WITHIN 5 FEET OF FOUNDATION.
6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
7. SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
8. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"V" FOR WATER SERVICES

2016 REVISION

2016 REVISION

SHEET S1.22016 REVISION2016 REVISION2016 REVISION2016 REVISION2016 REVISION

2016 REVISION

2016 REVISION

<u>TOE POCKET DETAILS</u> <u>STANDARD EXTRUDED</u> <u>ALUMINUM MANHOLE STEP</u>	PARKER WATER & SANITATION DISTRICT STANDARD EXTRUDED ALUMINUM MANHOLE STEP
SCALE: NONE APPROVED: PVR DIRECTOR OF ENGINEERING	DATE: 2/96 01/15 10/16

POLYPROPYLENE REINFORCED PLASTIC STEP		
PARKER WATER & SANITATION DISTRICT		
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP		
SCALE:	NONE	DATE: 2/02
APPROVED:	PVR	01/16 10/16
DIRECTOR OF ENGINEERING		

NOTES:

1. THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.

2. ALUMINUM ALLOY SPECIFICATIONS:

- a. ALLOT DESIGNATION: ALMAC 355
- b. MIN. TENSILE STRENGTH= 40 K.S.I.
- c. MIN. YIELD STRENGTH= 20 K.S.I.
- d. MIN. SHEAR STRENGTH= 27.45 K.S.I.
- e. ELONGATION= 10% IN 2"
- f. BURNELL HARDNESS= 70

3. MINIMUM LOAD CAPACITY: STEP SPACING AND ALIGNMENT, TOE, POCKET, DETAILS AND OTHER AVAILABLE NOTES AND DIMENSIONS SHALL BE FOR EXTRUDED ALUMINUM MANHOLE STEP. SHALL ALSO APPLY TO THIS STANDARD.

4. MIN. WT. = 2.6 LBS.

PARKER WATER
& SANITATION DISTRICT

CAST ALUMINUM
MANHOLE STEP

SCALE:	NONE	DATE:	2/98
APPROVED:	PVR		01/76 10/75
DIRECTOR OF ENGINEERING			

STEEL PIPE STENOILED IDENTIFICATION MARKS ON POSTS SHALL FACE THE APPEARANCE WITH 2" STENOILS INDICATING TYPE OF APPEARANCE (MH, 12" VALVE, ETC.) AND THE DISTANCE IN FEET AND INCHES FROM POST.		PARKER WATER & SANITATION DISTRICT MARKER POST DETAIL	
BEDWOOD POST ROUTER LETTERS AND NUMBERS INTO POST. PAINT LETTERS AND NUMBERS BLACK.	SCALE: NONE	DATE: 2/98	
	APPROVED: PVR	2/00 4/01 1/06	10/16
	DIRECTOR OF ENGINEERING		

T_w = Thickness of Asphaltic Concrete Base Course (A.C.W.B.)	1. <i>Shaping or bending of trench side walls where permitted shall be in accordance with applicable Federal, State and Local safety regulations.</i>
T_{ws} = Thickness of Asphaltic Concrete Wearing Surface (A.C.W.S.)	2. <i>Trench shall be broomed and smooth as necessary to attract safe walking conditions or to protect adjacent utilities, structures, and vehicles subject to the following conditions. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutters, sidewalks, sidewalks, structures, etc. Subsequent to the contractor shall be responsible for protection of same.</i>
T_a = Total Asphalt Thickness ($T_b + T_{ws}$)	3. <i>If dimension h, $h \leq 5'$, then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt pit width, W, $W \leq 18"$ shall then be based upon this cut and fill.</i>
D_b = Outside Pipe or Conduit Span Dimension	
D_{bs} = Specified Bedding Trench Width and Max Bedding Trench Width at a point 12" above Top of Pipe (See Note 2)	
D_{bs} = Max. Pwd. Width of Asphaltic Concrete Base Course (or Asphaltic Concrete Cold Mix) (See Note 3)	
D_{ws} = Max. Pwd. Width of Asphaltic Concrete Wearing Surface (or Cold Mix) (See Note 3)	
H = Depth of Surface to Top of Pipe	
H = Depth: From Surface 1 to 10' above Top of Pipe	

TABLE II			
NOMINAL DIAMETER (D)	MINIMUM THICKNESS (G)	MIN. WIDTH ORACLE (B _W)	
18" & smaller	0"	R _C + 8"	
21" to 24"	0"	R _C + 8"	
27" to 33"	0"	R _C + 8"	
36" to 40"	10"	1.25 R _C	
48" & longer	1/4" □	1.25 R _C	

PARKER WATER & SANITATION DISTRICT	
TRENCHING AND BEDDING CLASS "B"	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	5/98 2/00 1/06
DIRECTOR OF ENGINEERING	10/16

NOTES:

3.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPOUT JOINTS.

3.2 BEDDING TRENCH SHALL BE COMPACTED TO 90% DENSITY. AASHTO T-99 IN OPEN AREAS AND 90% DENSITY AASHTO T-99 IN ALL PUBLIC ROW.

AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

PARKER WATER & SANITATION DISTRICT	
TRENCHING AND BEDDING CLASS "B"	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	5/98 2/00 1/16 10/16
DIRECTOR OF ENGINEERING	

PARKER WATER & SANITATION DISTRICT	
TRECHING AND BEDDING CLASS "B"	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	5/98 2/00 1/01
DIRECTOR OF ENGINEERING	10/16

The diagram shows a cross-section of a sanitary sewer pipe encased in concrete. The top part shows a perspective view of the "PROPOSED SEWER OR CONDUIT". Below it, a detailed cross-section shows the pipe surrounded by "FILLER MATERIAL (SEE NOTE 15)". A circular area labeled "PIER SUPPORT EACH SIDE IF REQUIRED. (SEE NOTE 8)" indicates where shoring might be needed. Dimensions include a total height of 6'0" from ground level to the bottom of the enclosure, with sections of 6'0" above and 6' below the centerline. Horizontal dimensions show two 6'-0" segments flanking a central section of O.D.+12". Labels indicate areas for "CONCRETE ARCH (f_c'=2000 PSI)", "SHORING (SEE NOTE 6)", "UNDISTURBED EARTH", and "HAND EXCAVATION REQUIRED AROUND SANITARY SEWER". The main label at the bottom reads "TYPE I CONCRETE ENCASEMENT FOR SANITARY SEWERS (CONCRETE ARCH)".

**PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE I**

GENERAL NOTES FOR TYPE IIIA II AND ENCASMENT:

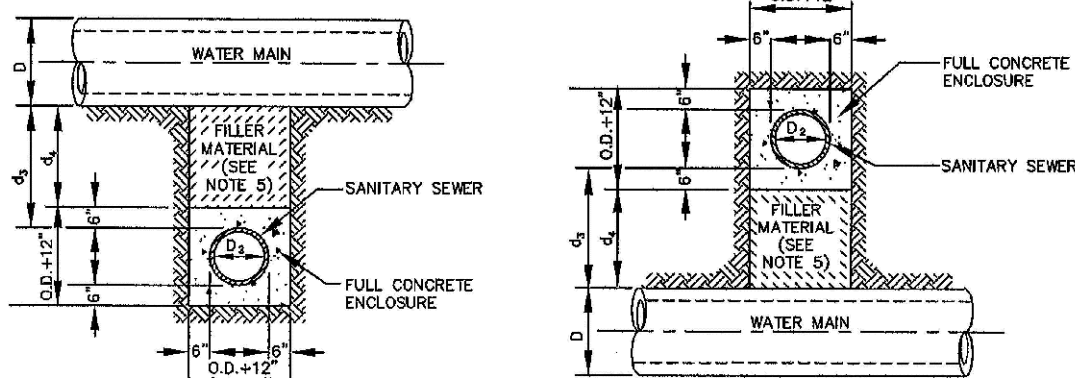
1. CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION CLASS IS USED, BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
2. LENGTH OF ENCASMENT FOR:
 - (a) TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH excavated FOR PROPOSED SEWER OR CONDUIT.
 - (b) TYPE B ENCASMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
3. UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & II ENCASMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
4. TYPE I or II if ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - (a) TYPE I OR II IF $d_s \leq 18"$ ($d_c \leq 12"$) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.
 - (b) WATER MAINS AND $d_s \geq 24"$ ($d_c \leq 18"$).
(c) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, regardless of dimension " d_s ".
5. IF ANY OF THE FOLLOWING CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNDESIRABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
 - (a) IF THE SANITARY SEWER IS REPLACED OR SUBSTITUTED OF DIUCTION IRON PIPE (AWWA C-150 or C-15), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
6. FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC.
 - (b) COMPACTED CLASS "B" BEDDOING IF d_s , & $d_c > 6"$.
(IF $d_s = 6"$ FOR TYPE II ENCASMENT FOUR CORNER CONCRETE ON UNDISTURBED SOIL)
7. SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
8. THESE ENCASMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN THOSE LISTED HEREUNDER.
9. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "TO" IS EXCEEDED, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

SCALE: NONE DATE: 2/88

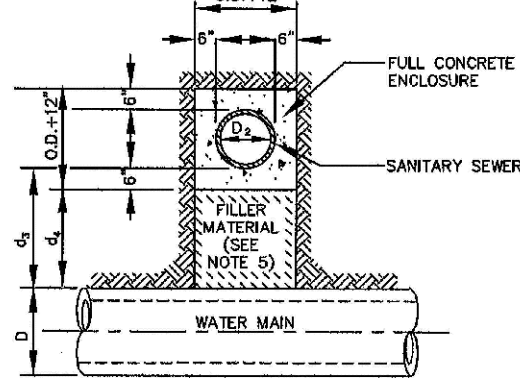
APPROVED: JFN

DISTRICT ENGINEER _____

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TYPE IIa
SANITARY SEWER CROSSING
UNDER WATER MAIN
IF $d_1 > 2$ FT, ENCASEMENT NOT REQUIRED



TYPE IIb
SANITARY SEWER CROSSING
OVER TOP OF WATER MAIN
FULL ENCASEMENT REQUIRED REGARDLESS OF DIMENSION d_1

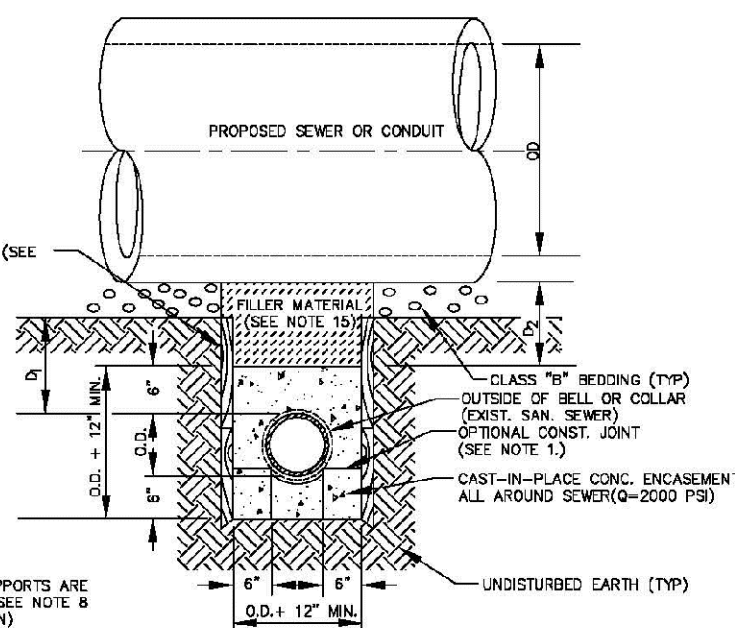
TYPE II
CONCRETE ENCASEMENT FOR SANITARY SEWERS
CROSSING OVER OR UNDER WATER MAIN

GENERAL NOTES FOR TYPE I, II, & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED, BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY. A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH ENCASEMENT FOR PROPOSED SEWER OR CONDUIT.
(b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
(a) TYPE I OR TYPE II IF $d_1 \leq 18"$ (IF $d_1 \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
(b) TYPE I OR TYPE II IF $d_1 \leq 18"$ (IF $d_1 \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS. REGARDLESS OF DIMENSION d_1 .
(c) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
(d) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_1 \leq 4"$ & $d_2 \leq 4"$.
(b) COMPACTED CLASS "B" BEDDING IF d_1 & $d_2 > 4"$ (IF $d_1 > 4"$ FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, SEW SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

PARKER WATER & SANITATION DISTRICT			
CONCRETE ENCASEMENT TYPE II			
SCALE: NONE	DATE: 2/96		
APPROVED: JFN	5/98		
	4/01		
DISTRICT ENGINEER	1/08		

SHEET 7



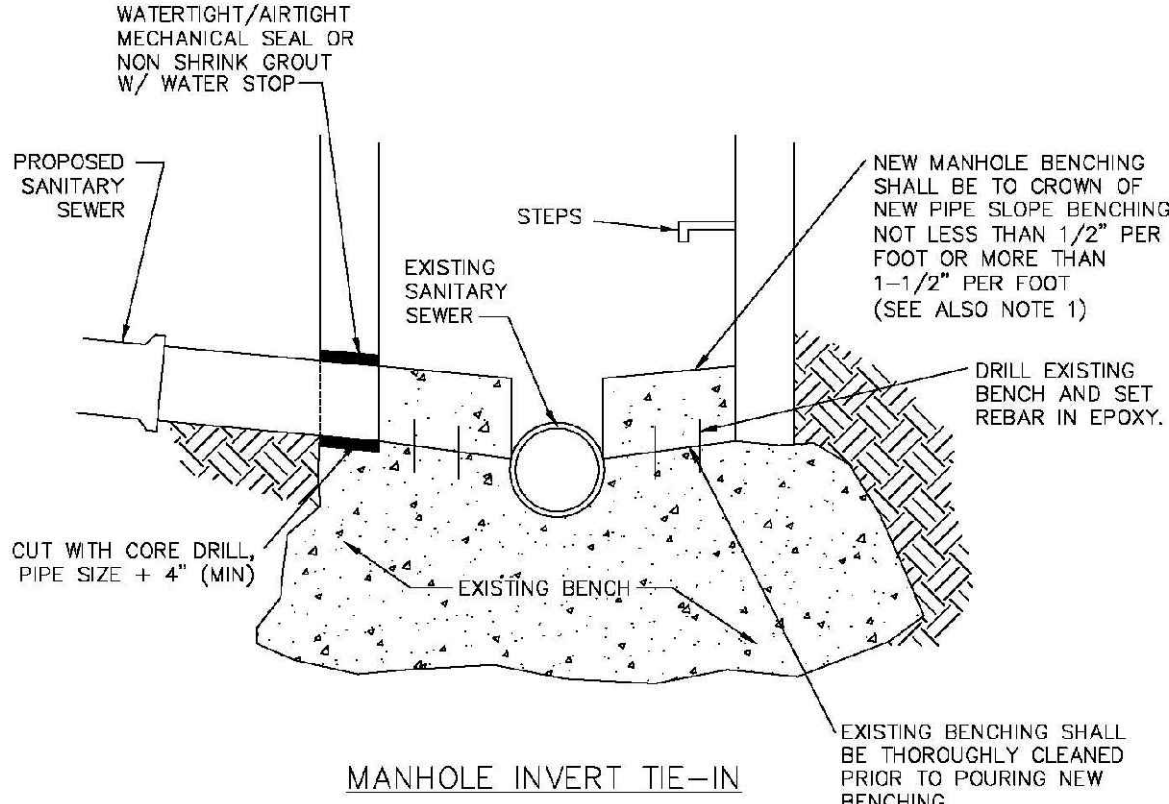
TYPE III
CONCRETE ENCASEMENT FOR SANITARY SEWERS

GENERAL NOTES FOR TYPE I, II, & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED, BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY. A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH ENCASEMENT FOR PROPOSED SEWER OR CONDUIT.
(b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
(a) TYPE I OR TYPE II IF $d_1 \leq 18"$ (IF $d_1 \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
(b) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING UNDER WATER MAINS. REGARDLESS OF DIMENSION d_1 .
(c) TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS. REGARDLESS OF DIMENSION d_1 .
(d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
(e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_1 \leq 4"$ & $d_2 \leq 4"$.
(b) COMPACTED CLASS "B" BEDDING IF d_1 & $d_2 > 4"$ (IF $d_1 > 4"$ FOR TYPE III ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, SEW SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.
- CONCRETE ENCASED PIPING SHALL BE LINED WITH FELT LAYER.

PARKER WATER & SANITATION DISTRICT			
CONCRETE ENCASEMENT TYPE III			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	5/98		
	1/18		
DIRECTOR OF ENGINEERING	10/16		

SHEET 8.8



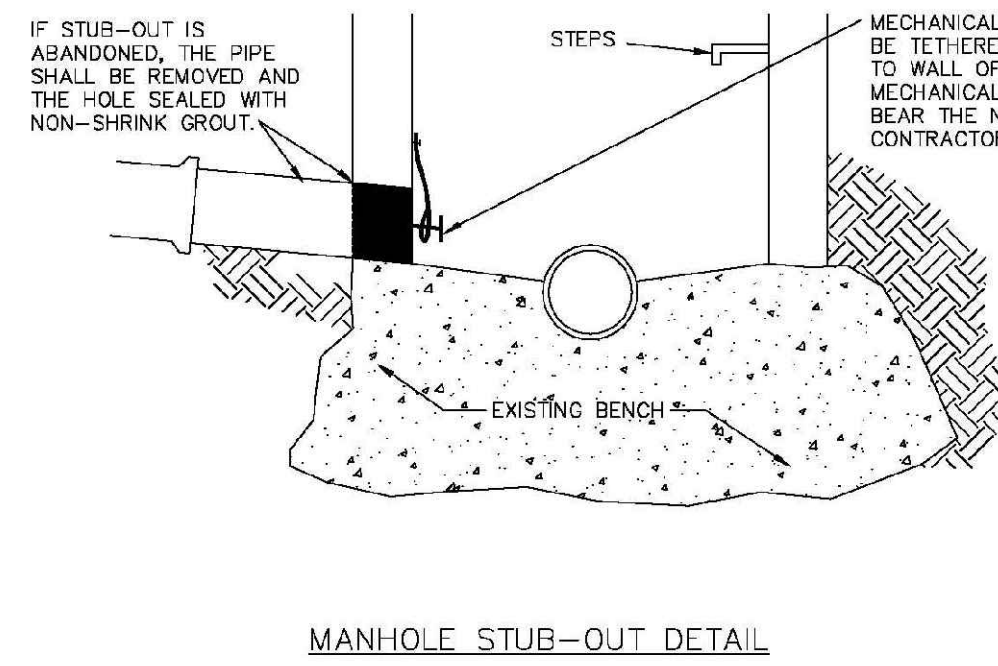
MANHOLE INVERT TIE-IN

NOTES

- NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

PARKER WATER & SANITATION DISTRICT			
MANHOLE INVERT TIE-IN DETAIL			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	1/18		
	10/16		
DIRECTOR OF ENGINEERING			

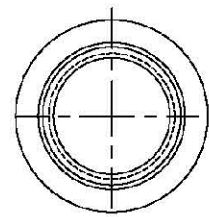
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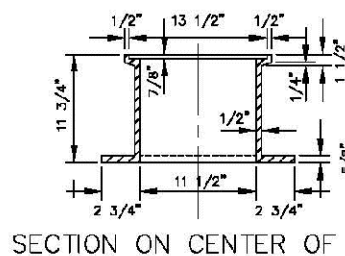
MANHOLE STUB-OUT DETAIL

PARKER WATER & SANITATION DISTRICT			
MANHOLE STUB-OUT DETAIL			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	1/18		
	10/16		
DIRECTOR OF ENGINEERING			

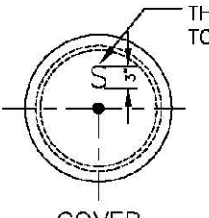
SHEET 8.10



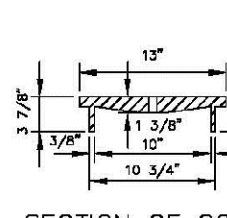
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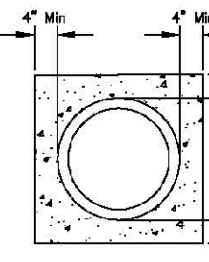
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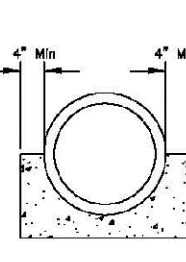
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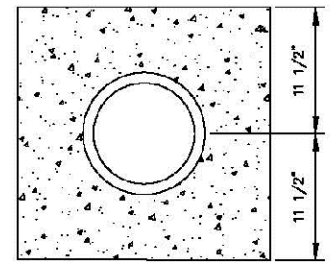
SECTION OF COVER



SECTION B-B



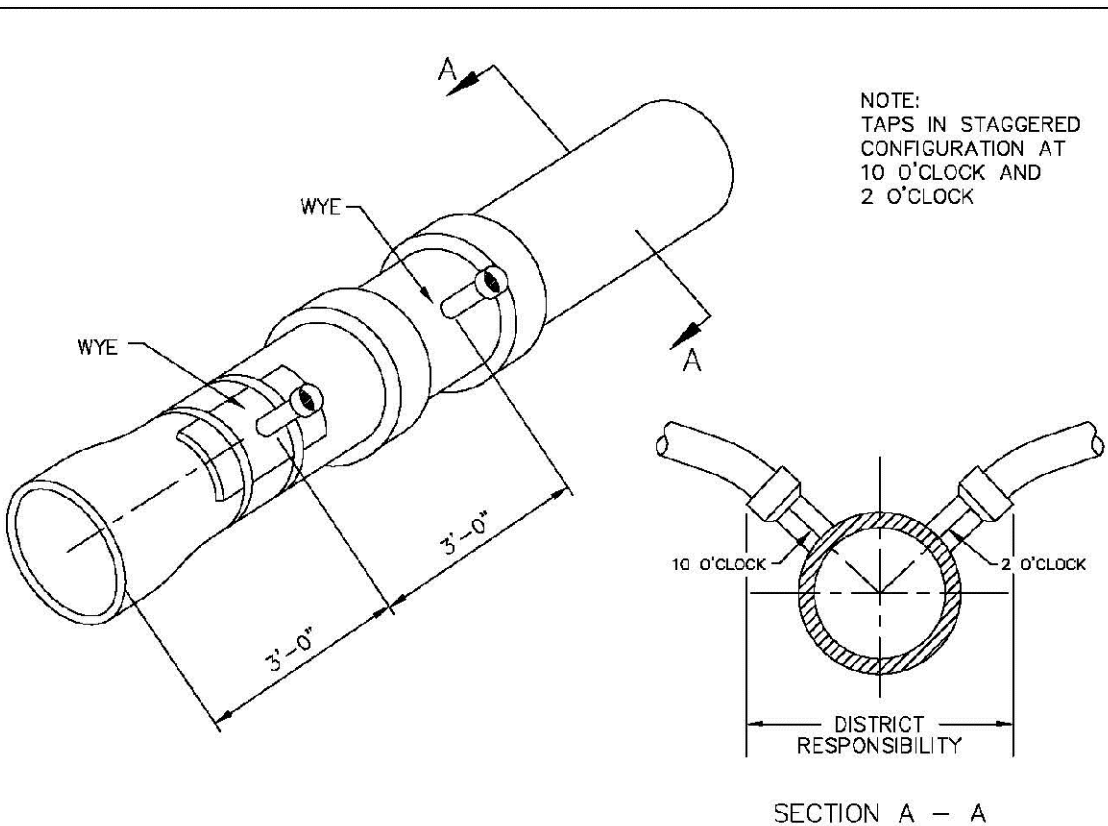
SECTION C-C



SECTION A-A

PARKER WATER & SANITATION DISTRICT			
IN-LINE CLEANOUT SECTIONS			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	2/00		
	1/98		
	10/16		
DIRECTOR OF ENGINEERING			

SHEET 8.12



SECTION A - A

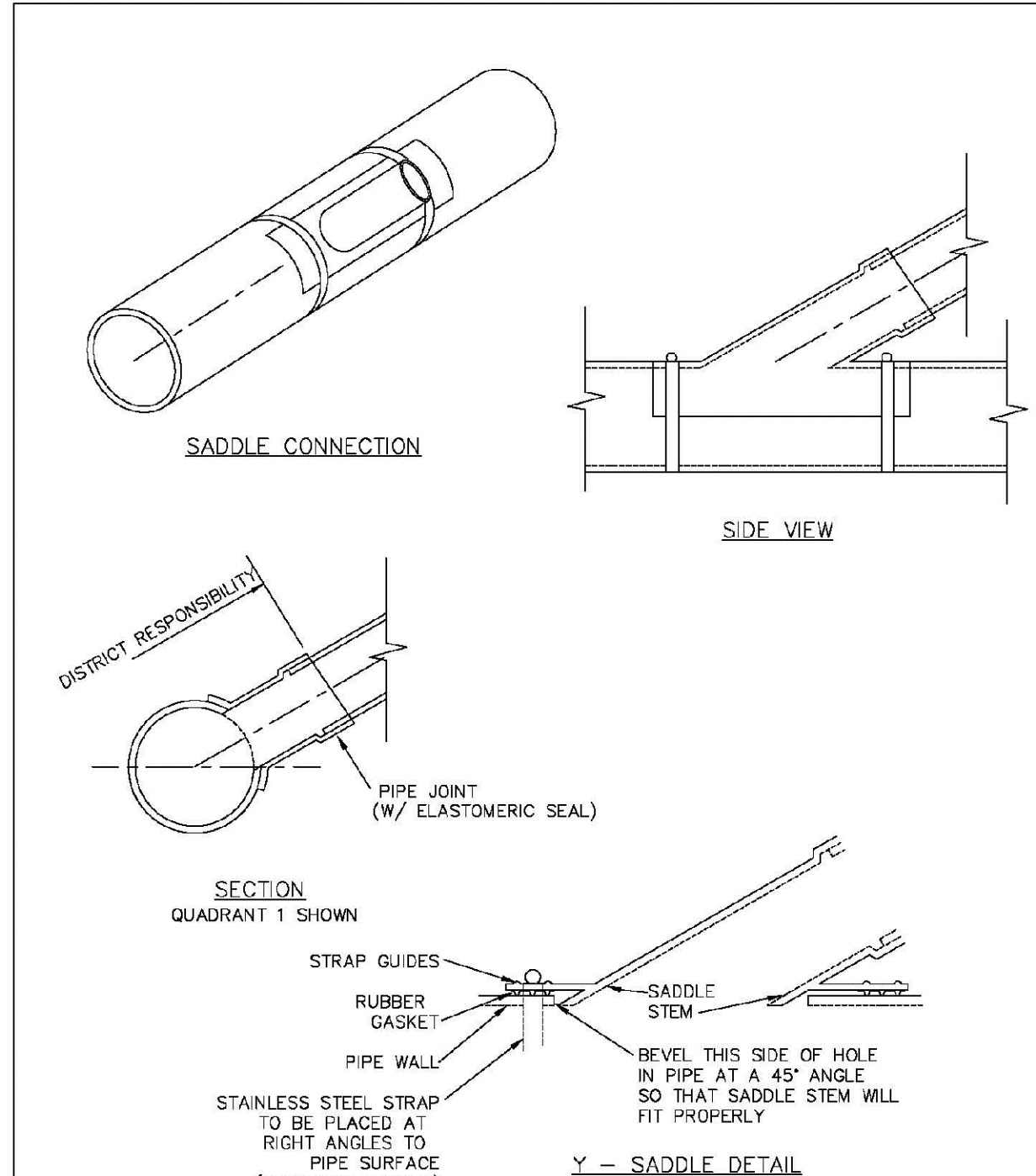
Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock position on the circumference of the sewer main. On new installations, tee or wye fittings shall be used. When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum distance between service connections made along the pipe shall be 3 feet. The minimum distance from either the bell or spigot end of a pipe shall be 3 feet. The minimum distance from the center of a manhole to a service connection shall be either 7 feet or the transition point from the manhole trench to the normal pipe trench, whichever is greater. A maximum of 4 sewer service connections shall be allowed per 20 foot length of pipe. In all cases, a specific soils investigation should be conducted to assure that the external loading will be within allowable limits regardless of the number of taps involved.

DOMESTIC SEWER TAPPING DETAIL

PARKER WATER & SANITATION DISTRICT			
DOMESTIC SEWER TAPPING DETAIL			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	4/01		
	1/08		
DIRECTOR OF ENGINEERING	10/16		

2016 REVISION

SHEET 84.13



SECTION QUADRANT 1 SHOWN

Y - SADDLE DETAIL

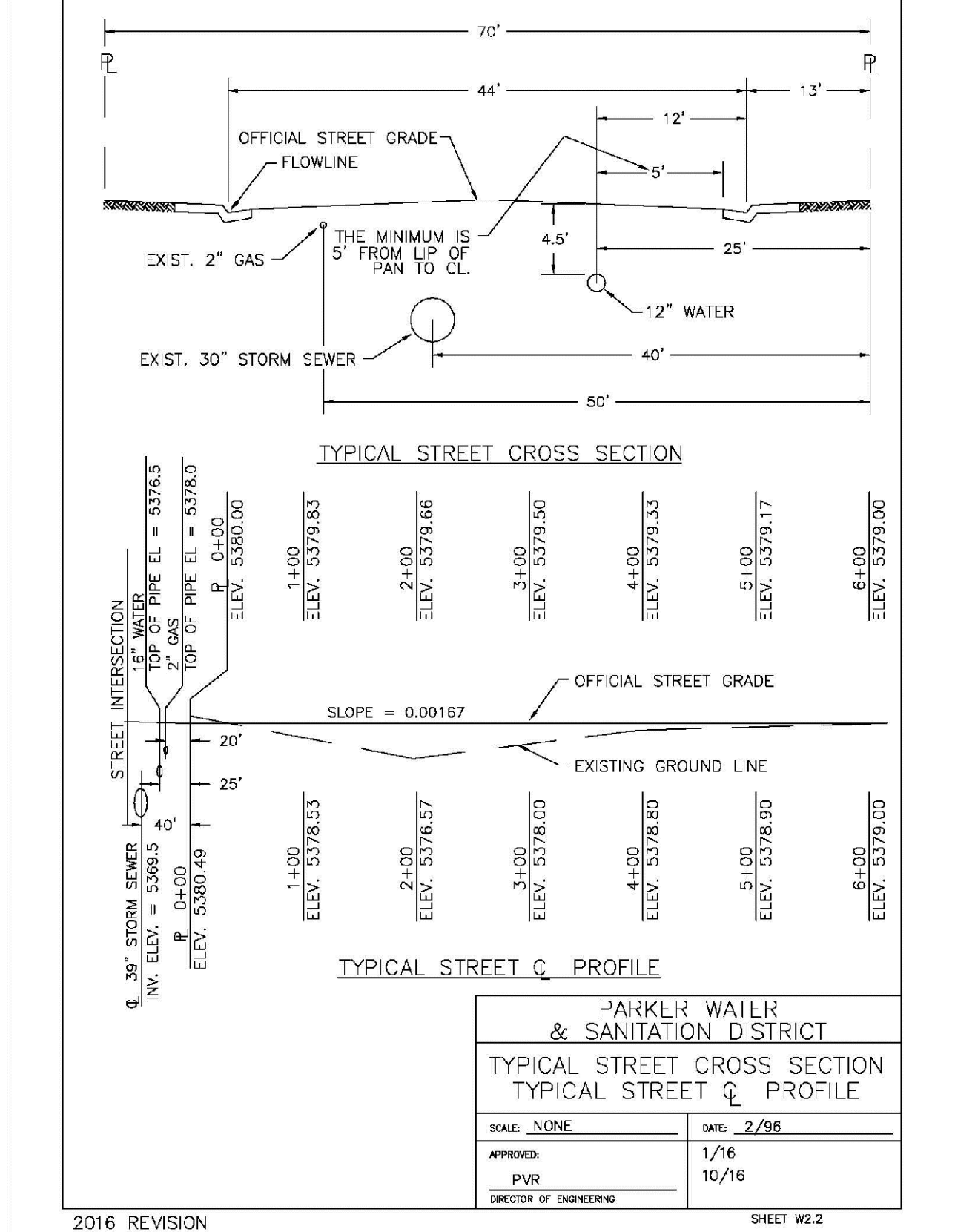
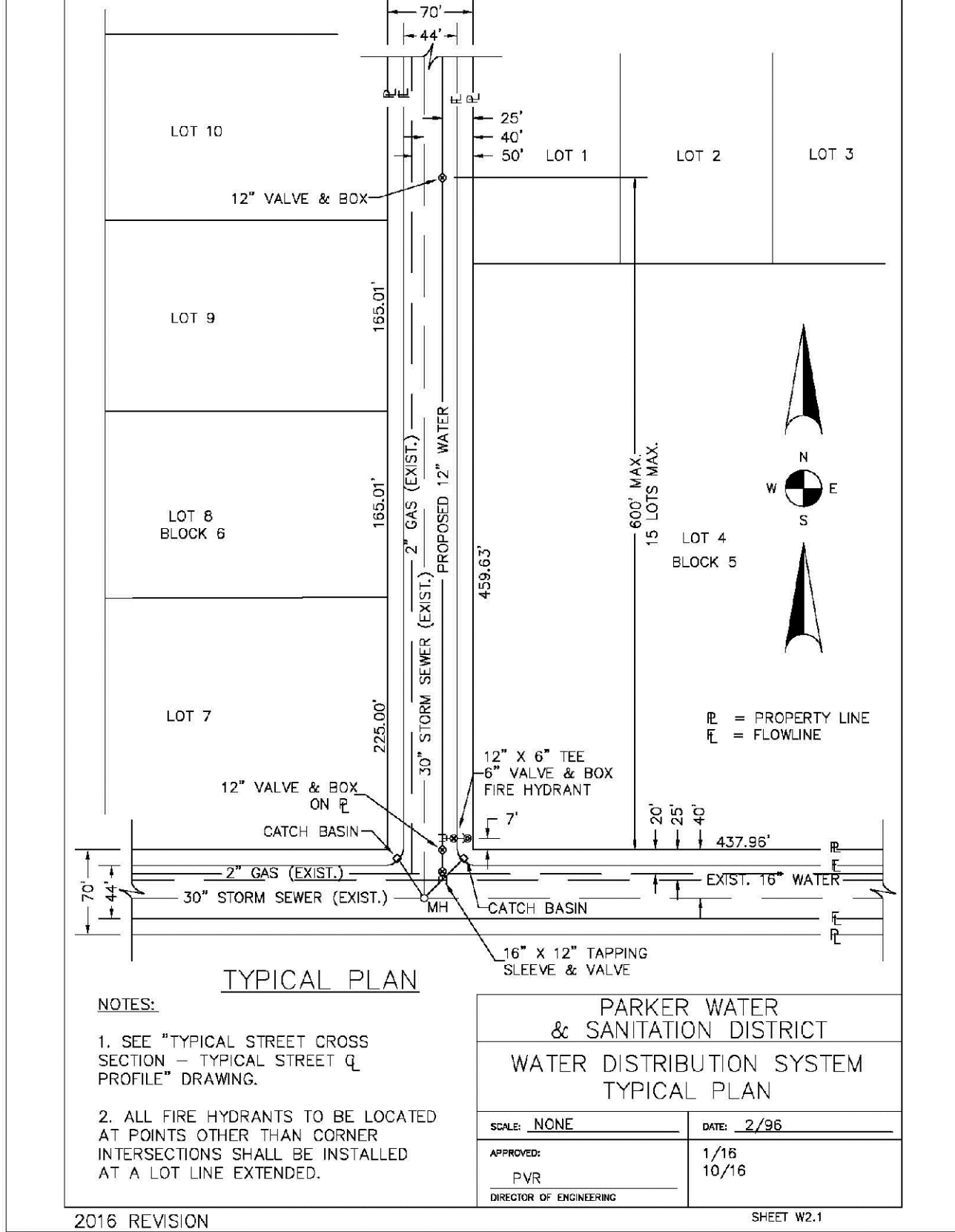
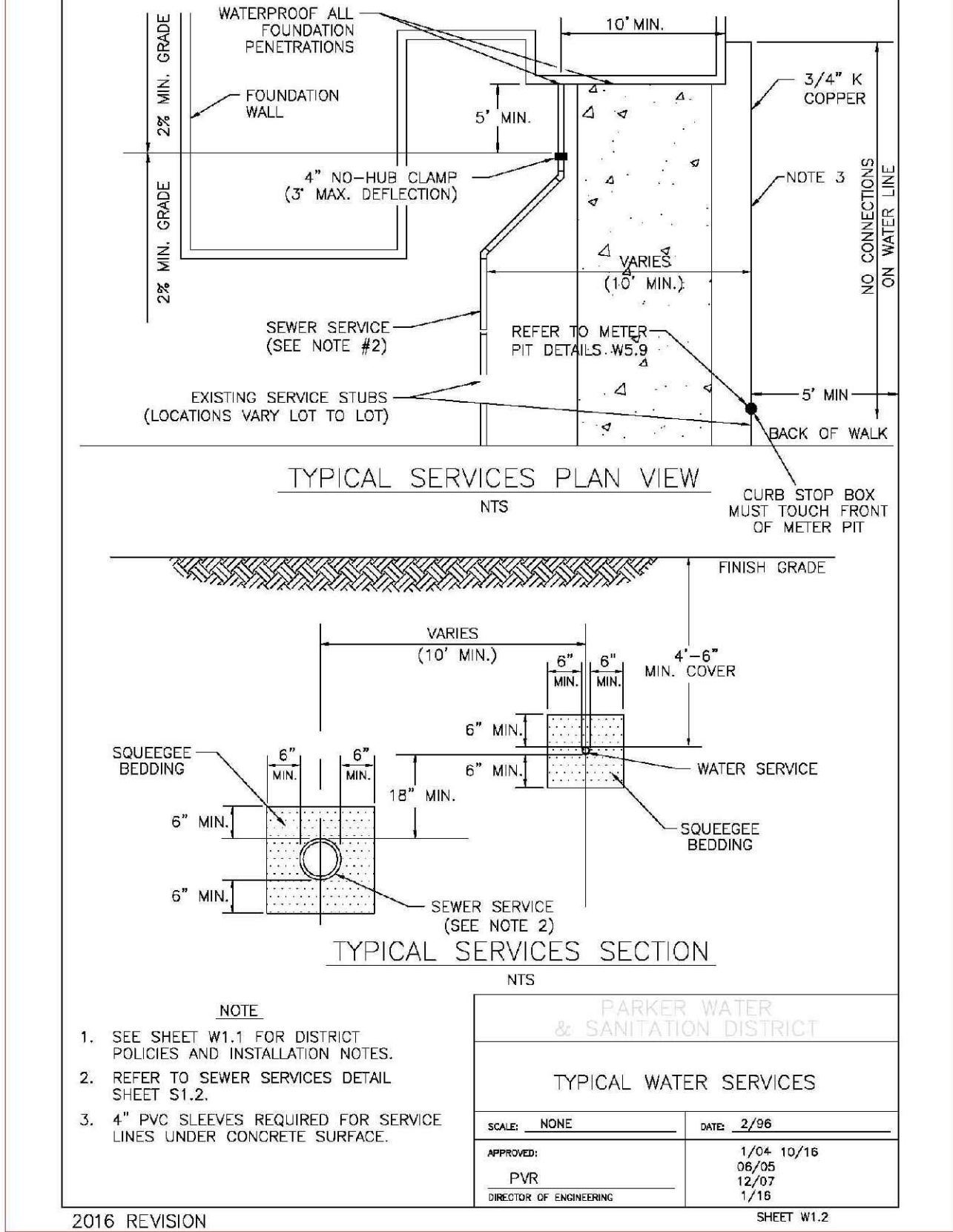
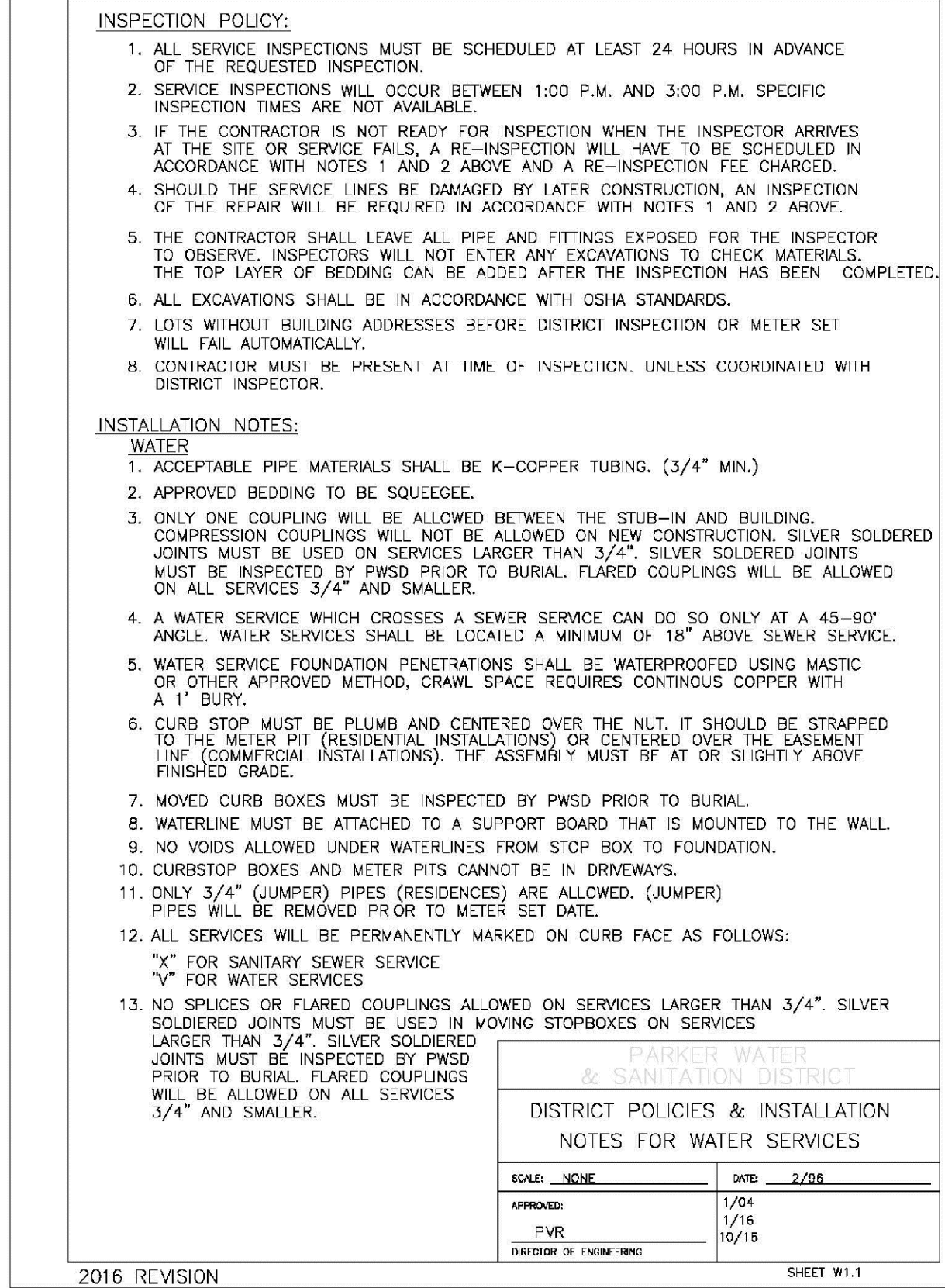
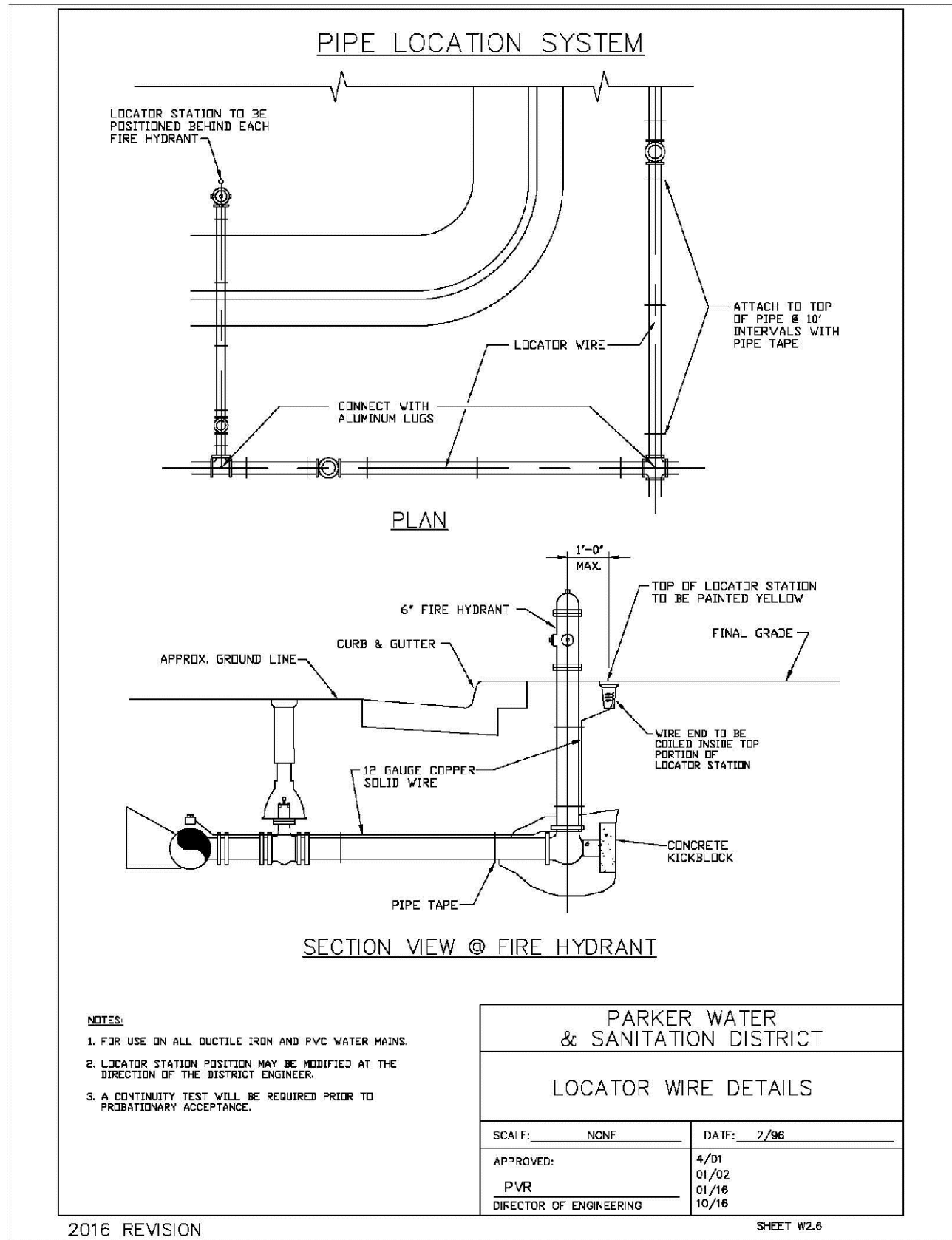
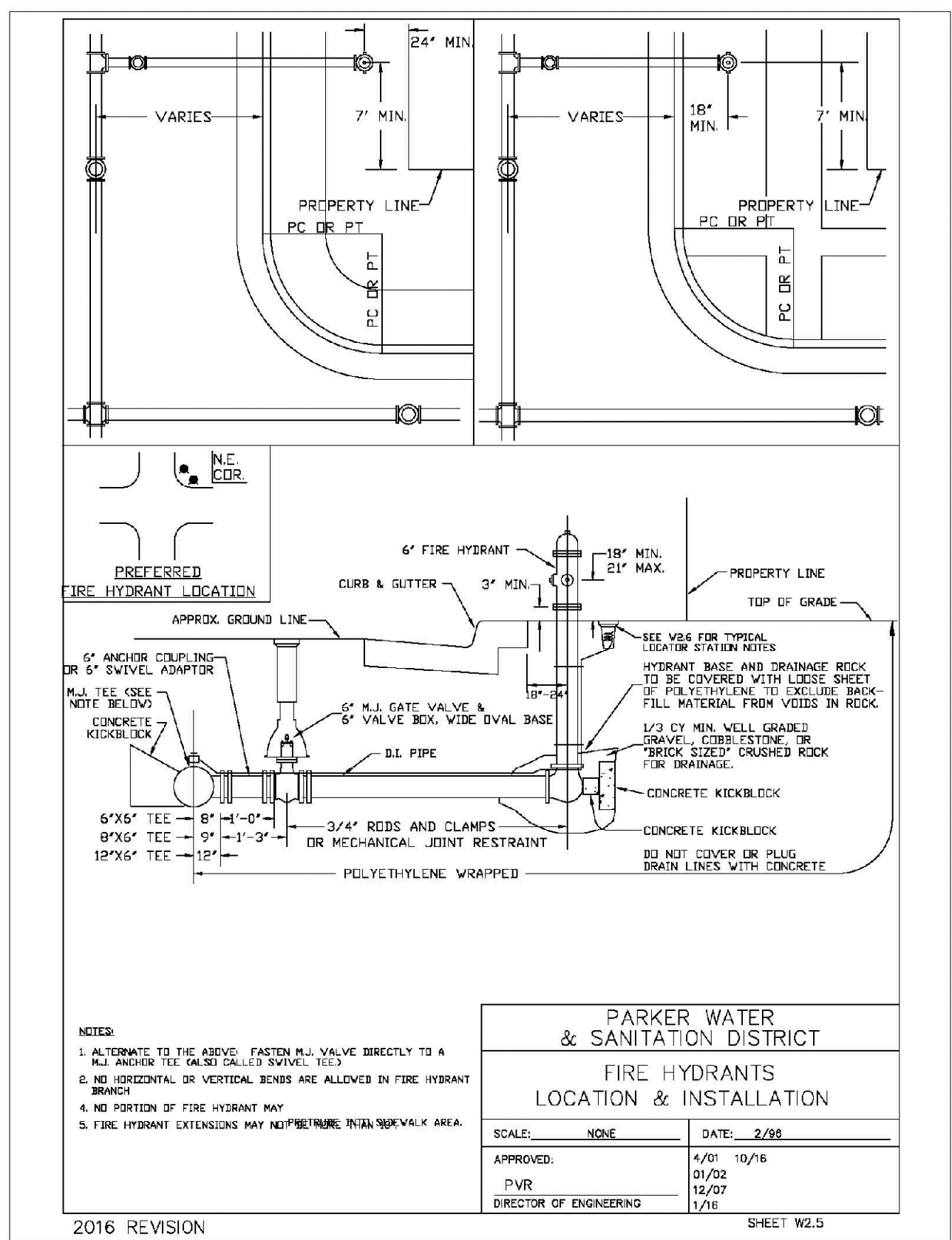
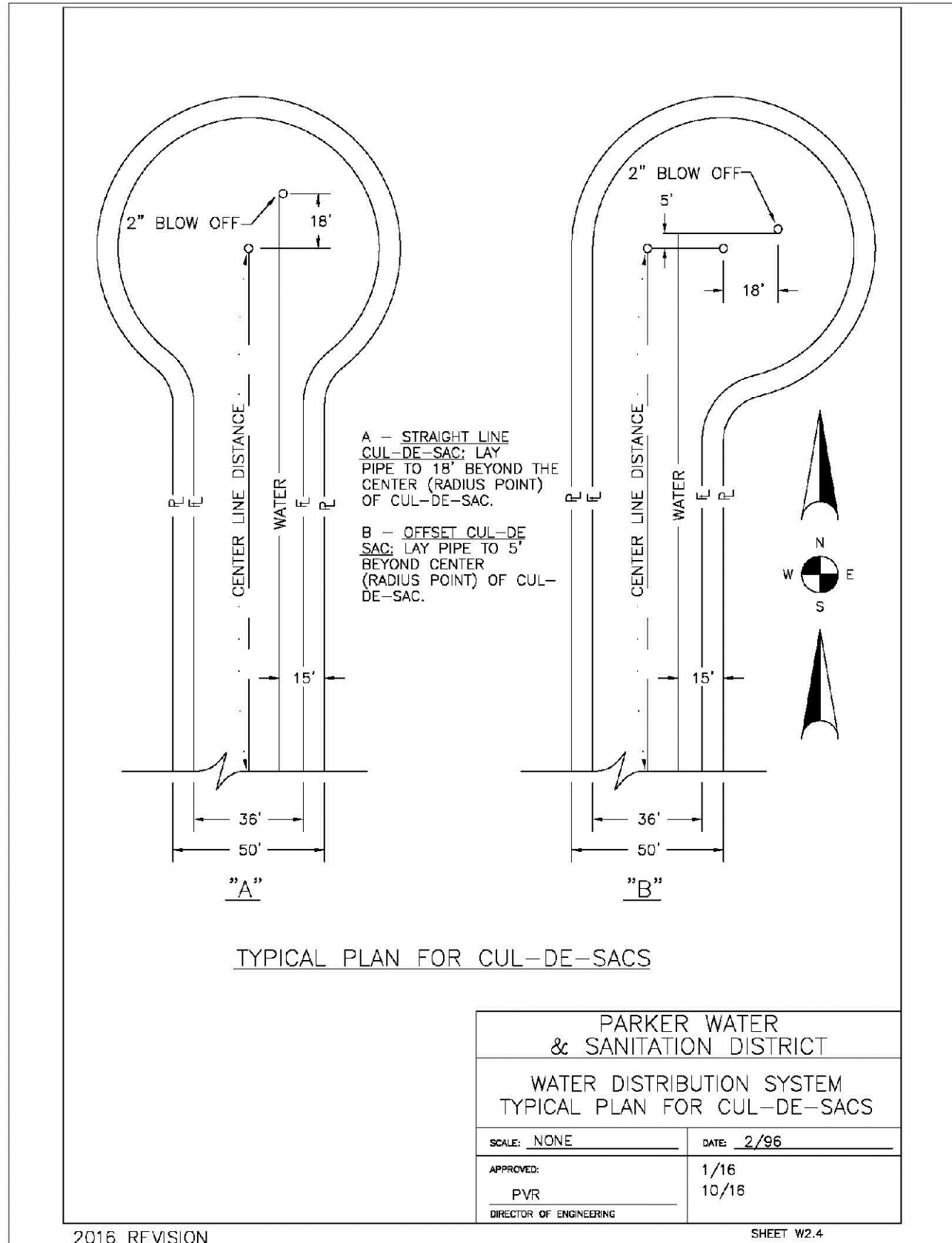
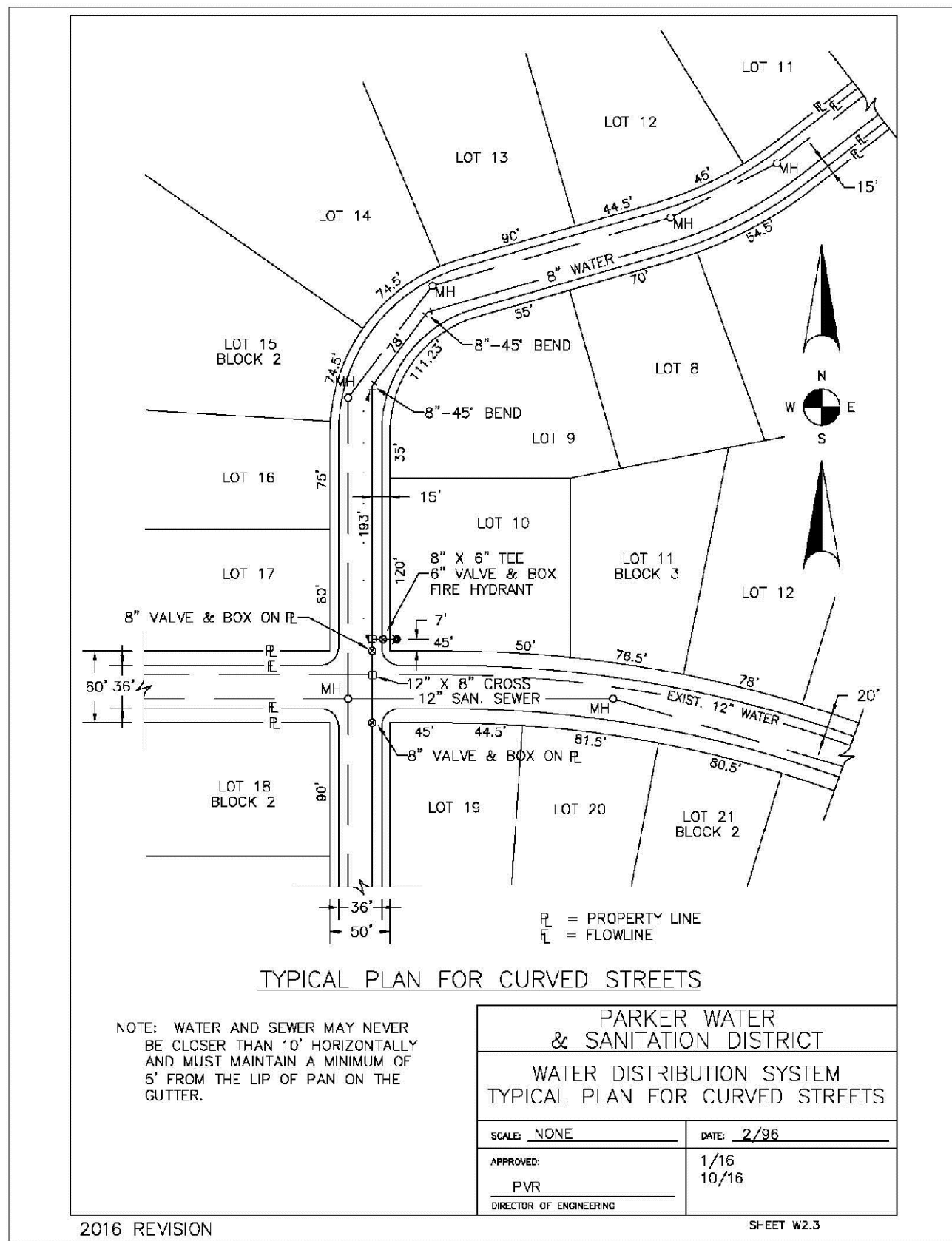
NOTES:

- SADDLE FITTINGS TO BE PER ASTM D3034.
- CONNECTION SHALL BE Y - SADDLE WITH TWO BONDS

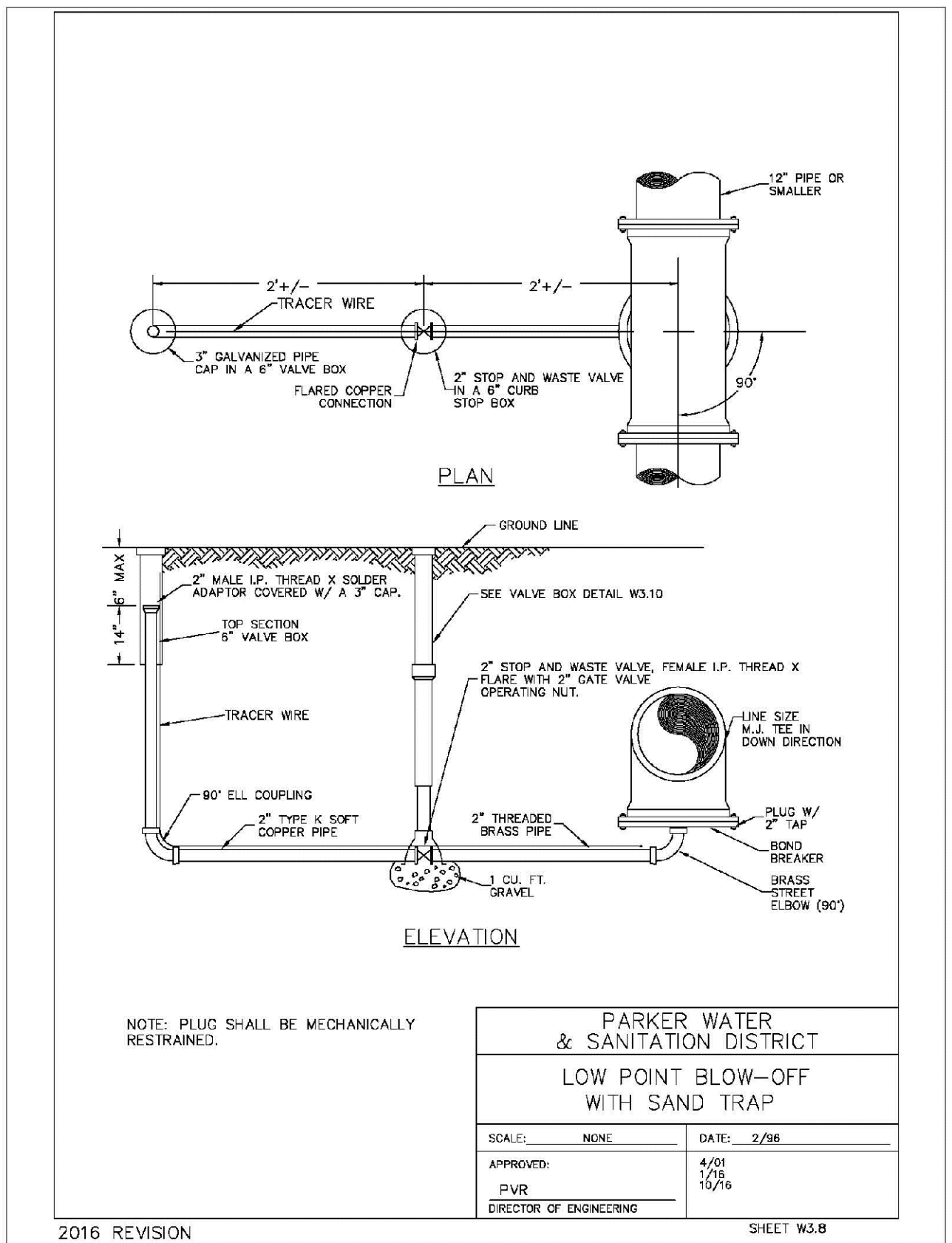
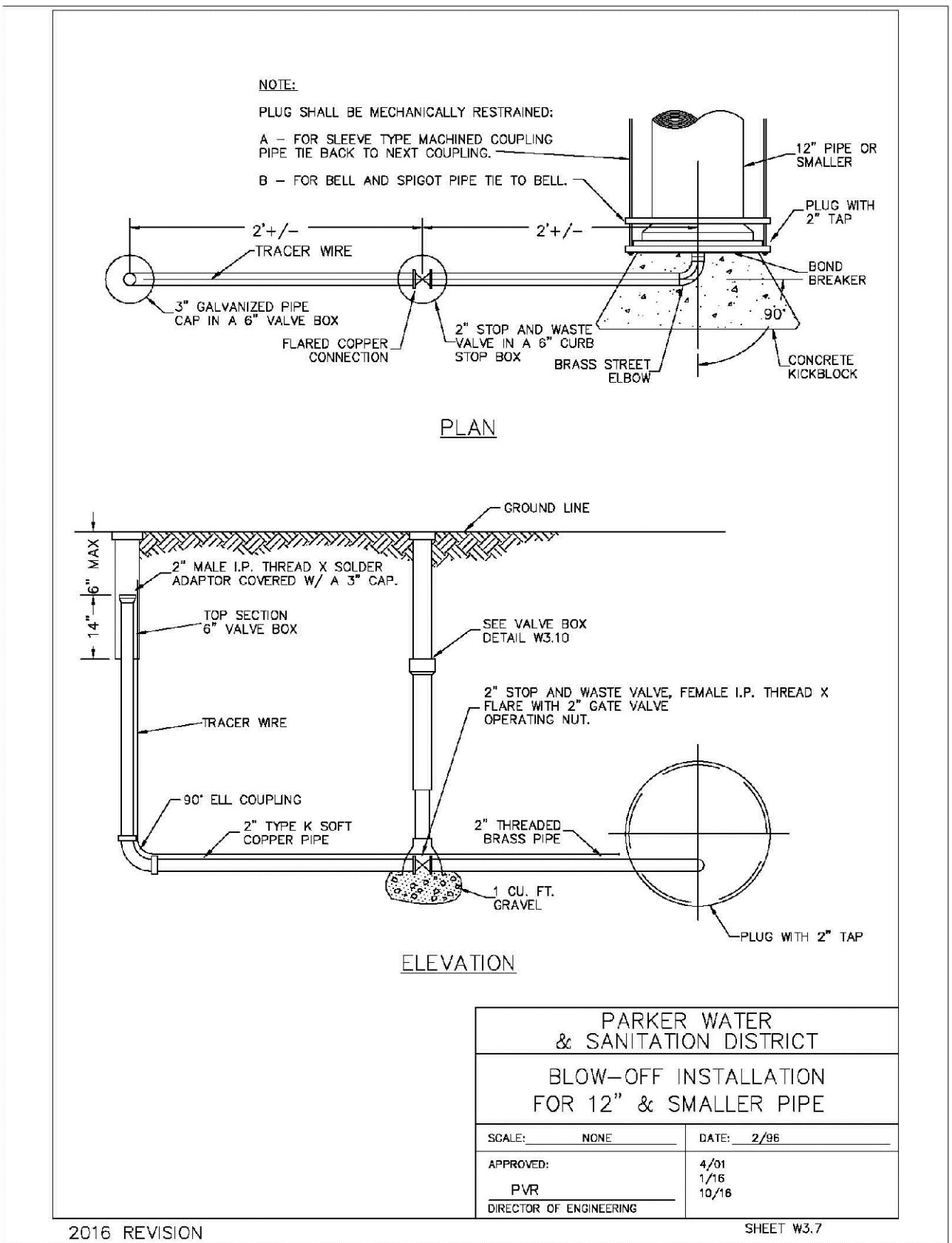
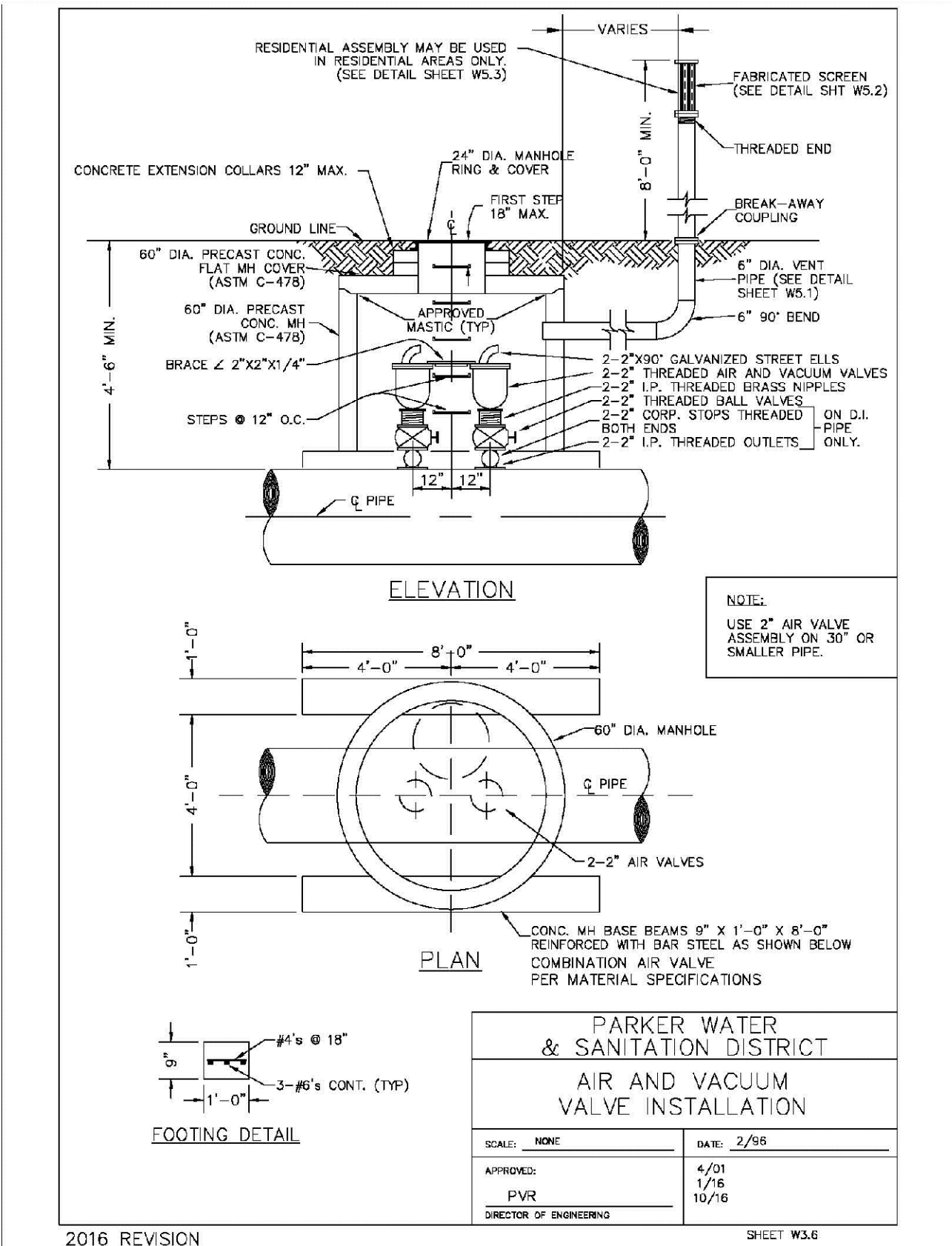
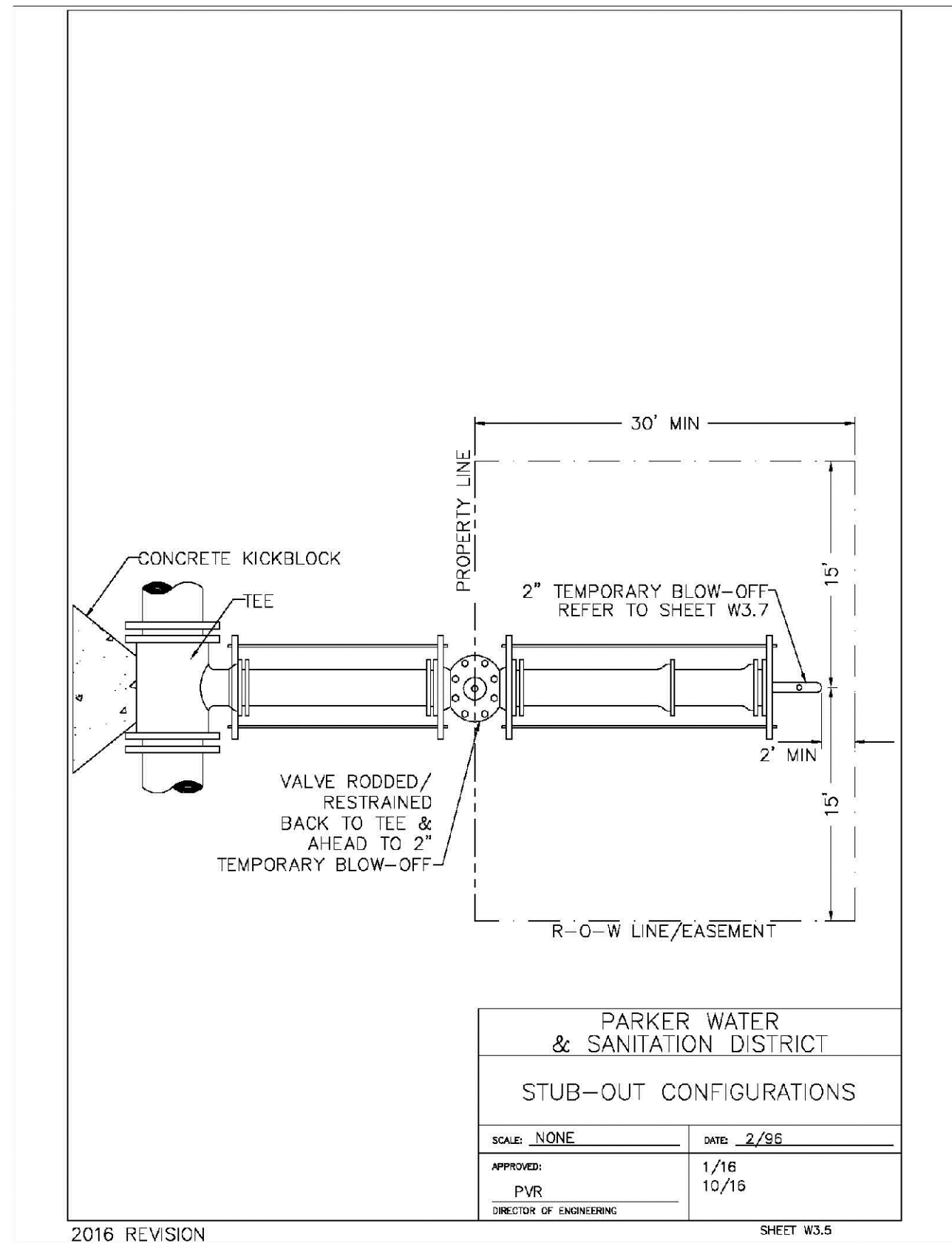
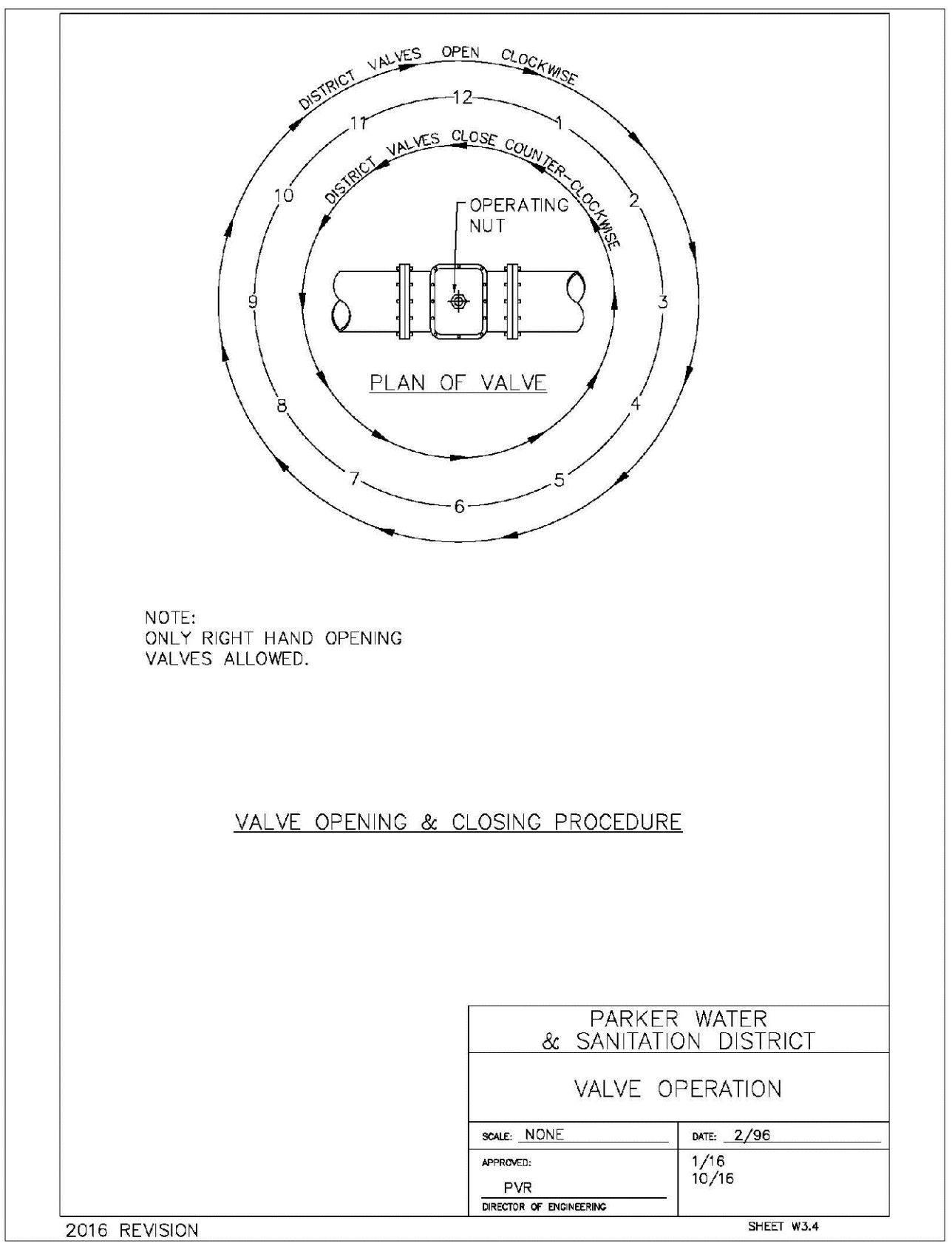
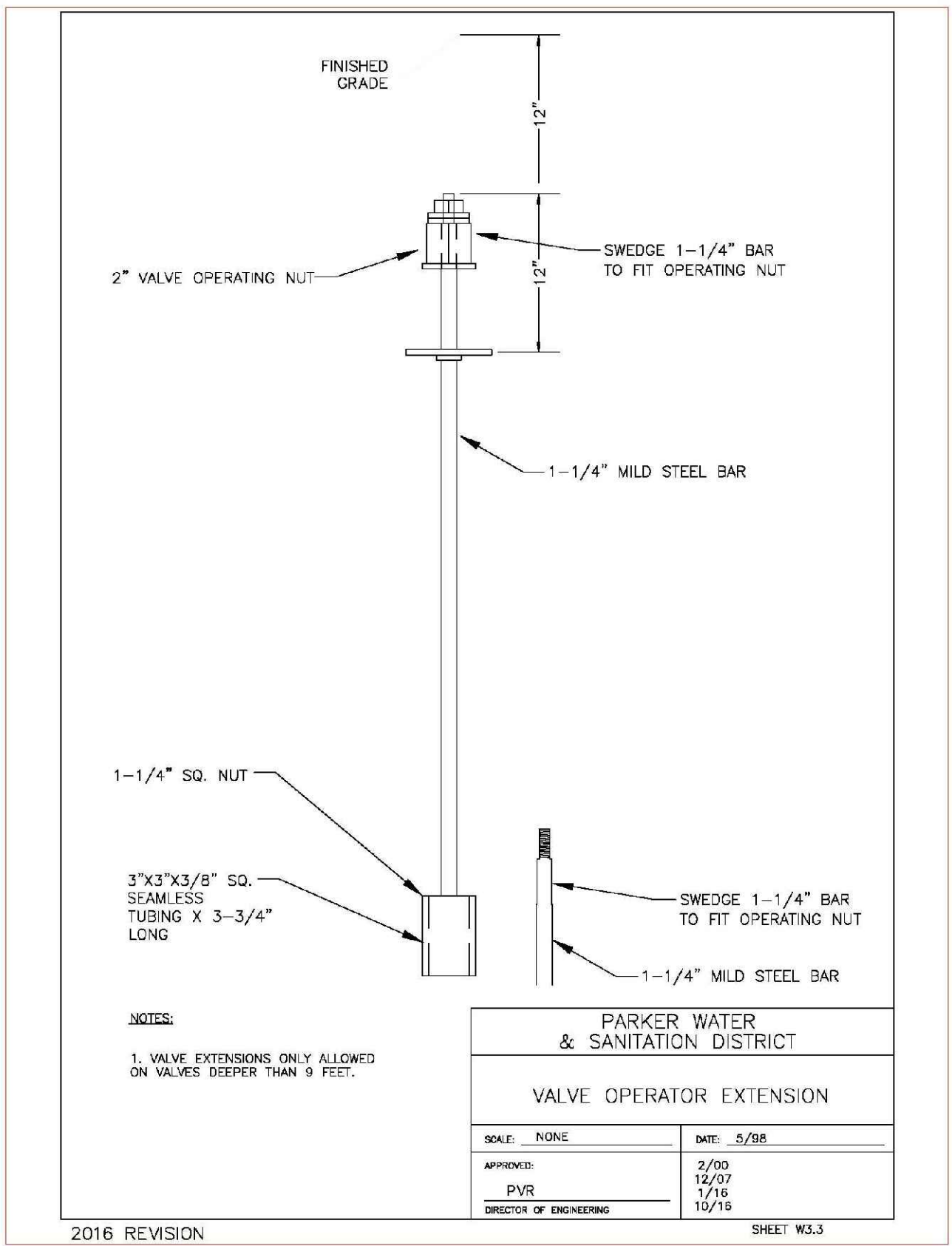
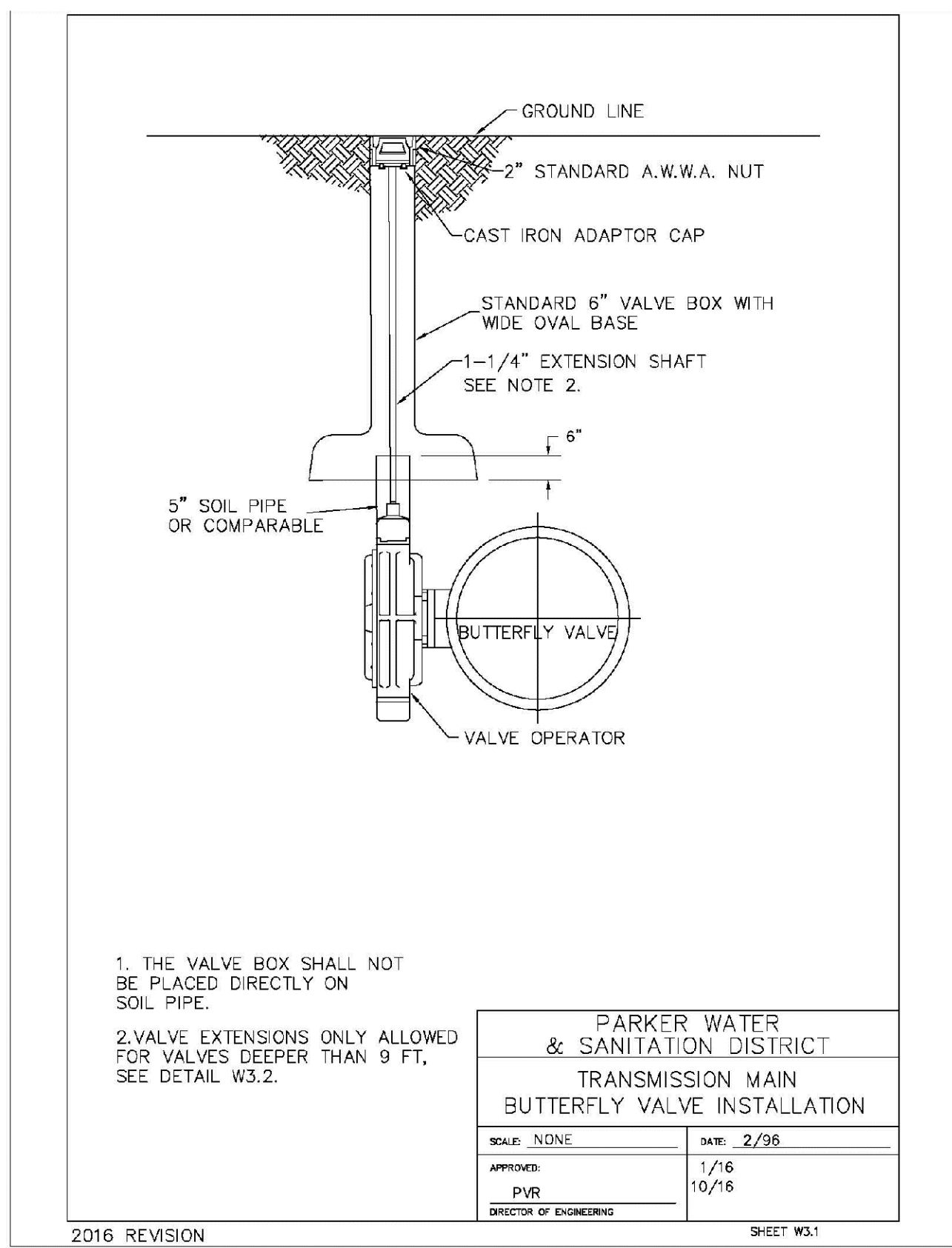
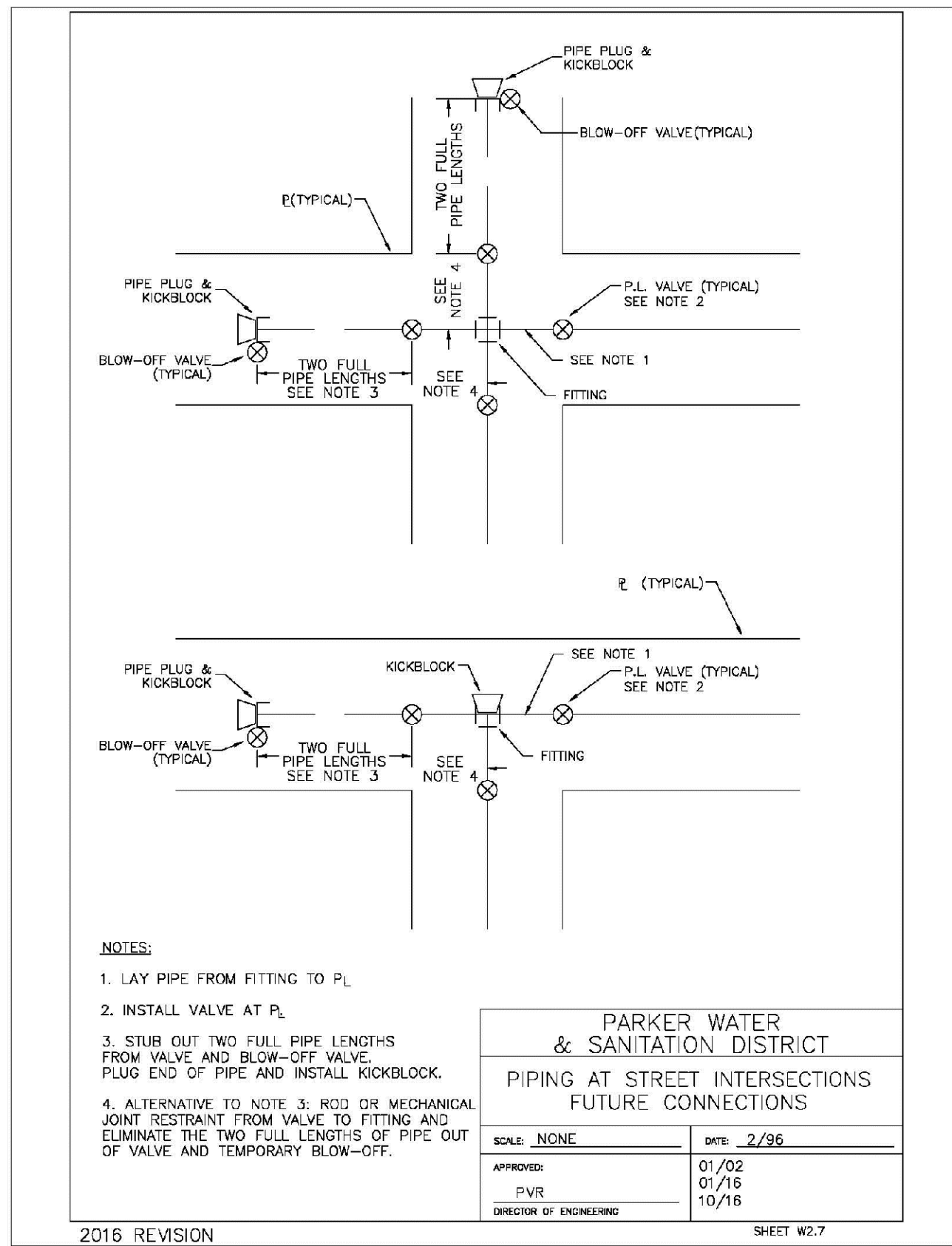
PARKER WATER & SANITATION DISTRICT			
P.V.C. SADDLE CONNECTION DETAIL			
SCALE: NONE	DATE: 2/96		
APPROVED: PVR	1/18		
	10/16		
DIRECTOR OF ENGINEERING			

2016 REVISION

SHEET 84.14



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2016 REVISION

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