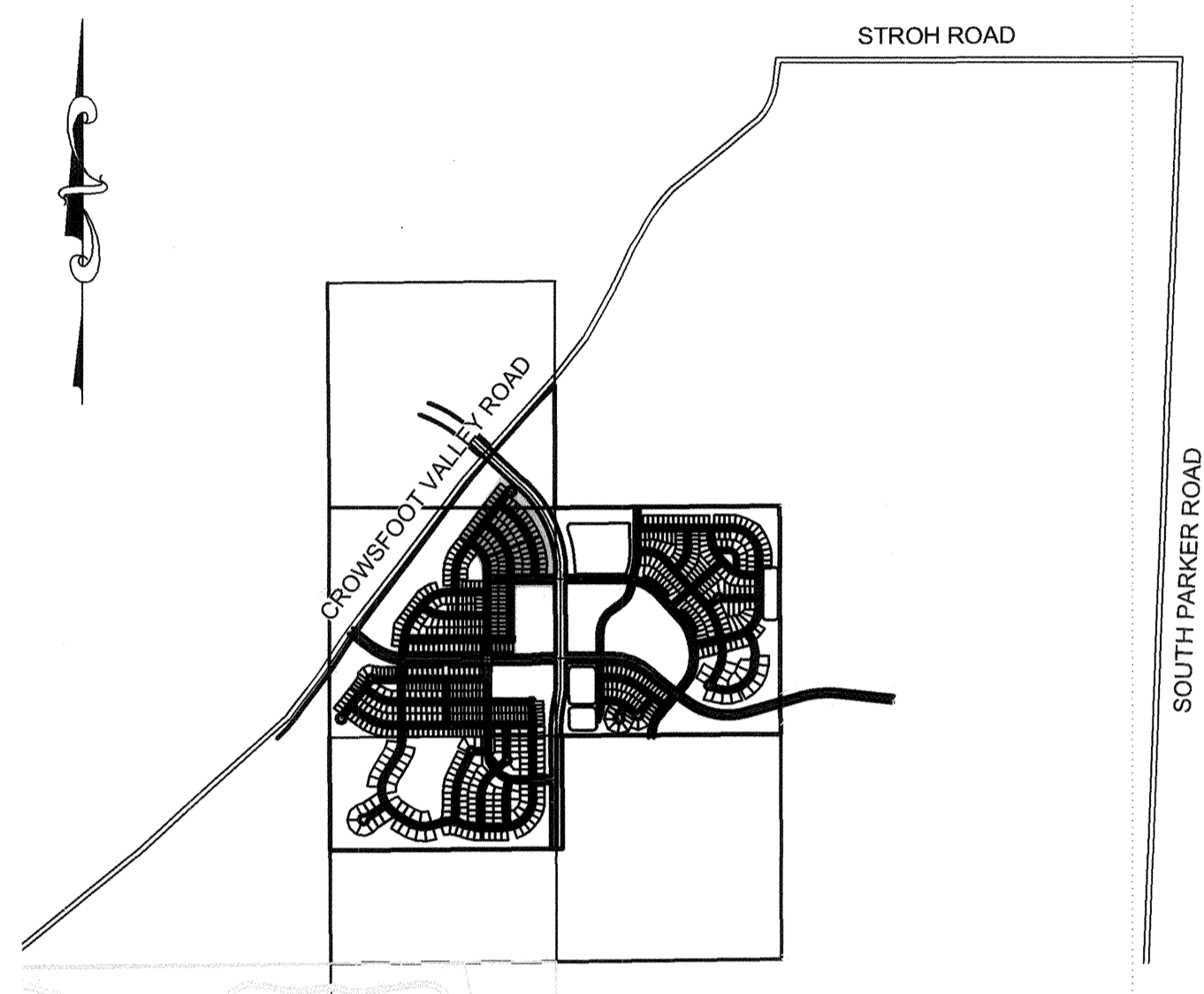


TRAILS AT CROWFOOT FILING 2

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 INDEX	
SHEET #	SHEET TITLE
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P WILD LUPINE ST
5	SANITARY P&P SCARLET SAGE LN
6	SANITARY P&P SCARLET SAGE ST
7	SANITARY P&P SCARLET SAGE ST
8	SANITARY P&P SHASTA DAISY ST
9	SANITARY P&P SHASTA DAISY ST
10	SANITARY P&P RED COSMOS POINT
11	WATER P&P WILD LUPINE STREET
12	WATER P&P SHASTA DAISY STREET
13	WATER P&P SHASTA DAISY STREET
14	WATER P&P SCARLET SAGE STREET
15	WATER P&P SCARLET SAGE STREET
16	WATER P&P RED COSMOS POINT
17	WATER P&P SCARLET SAGE LANE
18	SANITARY SEWER DETAILS
19	SANITARY SEWER DETAILS
20	SANITARY SEWER DETAILS
21	WATER DETAILS
22	WATER DETAILS
23	WATER DETAILS
24	WATER DETAILS
25	WATER DETAILS
26	WATER DETAILS
27	WATER DETAILS



VICINITY MAP
SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" WATERPIPE (C900)	4,845	L.F.
6" WATERPIPE (DIP-FIRE HYDRANT LINE)	168	L.F.
8" GATE VALVE W/ BOX	21	EA.
6" GATE VALVE W/ BOX	9	EA.
FIRE HYDRANT ASSEMBLY	9	EA.
8" BLOWOFF	2	EA.
8" AIR VAC	2	EA.
8" BEND	15	EA.
8" CROSS	1	EA.
8" TEE	15	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	100	EA.
8" SEWER (SDR-35 PVC)	4,479	L.F.
4' DIA. MANHOLE	24	EA.
SEWER SERVICE LATERAL W/ WYE TAP	100	EA.

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.

[Signature]
(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) DATE: 4-12-18

(NOTE- UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

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 SCHEDULED 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.

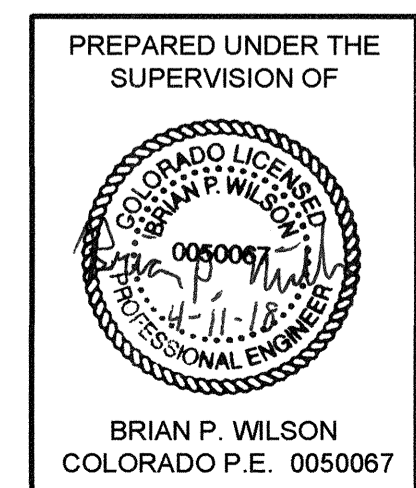
BY: *[Signature]*
(DISTRICT REPRESENTATIVE)

DATE SIGNED: 4-2-19

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: *[Signature]*
(DISTRICT ENGINEER)

DATE SIGNED: 4/2/2019



DEVELOPER

E5X MANAGEMENT
7353 SOUTH ALTON WAY
CENTENNIAL, CO 80112
TEL: (303) 770-9111
CONTACT: MATT JANKE

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.



SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JJ	DATE: AUGUST 2017	SCALE: AS SHOWN	FILE NO: 8130263701	Revisions	Appr.	Date
							Init.	Date
<p>10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546</p> <p>CVL CONSULTANTS</p> <p>HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112</p>								
<p>TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS COVER SHEET</p>								

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH PARKER WATER AND SANITATION DISTRICT SPECIFICATIONS.
2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER 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 CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, HE SHALL CONTACT THE ENGINEER IMMEDIATELY.
4. THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS THAT ARE 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 ROLLED "AS-BUILT" BLUELINE PRINTS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO PRINTING MYLAR SEPIAS FOR THE DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE MYLAR SEPIA PRINTS SHALL BE TRANSMITTED TO THE PARKER WATER AND SANITATION DISTRICT OFFICE.
8. 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 REMEDIATED 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. 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.
13. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SERVICE SEWERS "V" FOR WATER SERVICES
14. NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
15. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.

WATER MAIN NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PARKER WATER AND SANITATION DISTRICT ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISIONS. ALL WORK SHALL BE INSPECTED AND APPROVED BY PERSONNEL OF THE PARKER WATER SANITATION DISTRICT AND THE DISTRICT ENGINEER.
2. ALL WATER MAINS SHALL BE PER PWS MATERIALS SPECIFICATIONS.
3. ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED WITH 8-MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL PER PWS 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 SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, MATERIALS, AND LABOR WHICH ARE NECESSARY TO INSTALL THE HYDRANT COMPLETE IN PLACE. SEE MATERIALS SPECIFICATIONS FOR APPROVED MODELS.
6. ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS AND PLUGS AT DEAD END MAINS SHALL BE PROTECTED FROM THRUST BY USING 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 DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS. THE MORE CLOSELY THE RATE OF DELIVERY IS CORRELATED TO THE RATE OF PIPE LAYING, THE LOWER THE RISK OF CONTAMINATION.
8. CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PARKER WATER AND SANITATION STANDARDS AND SPECIFICATIONS. THE LINES SHALL BE CHLORINATED IN ACCORDANCE WITH ANSI/AWWA C-651-92, "DISINFECTING WATER MAINS." PARKER WATER AND SANITATION DISTRICT REQUIRES THE INITIAL DOSAGE RATE OF DISINFECTION BE AT LEAST 50 MG PER LITER. CHLORINE TABLETS SHOULD BE ADHERED TO THE TOP OF THE PIPE SECTION WITH PERMATAX NO.1 (RED). THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE DONE PRIOR TO THE HYDROSTATIC TESTING.
9. HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS. ALL PIPE SHALL BE FIELD PRESSURE TESTED TO A MINIMUM OF 150 PSI. ALL TESTING SHALL BE DONE IN THE PRESENCE OF A PARKER WATER AND SANITATION DISTRICT INSPECTOR. LEAKAGE FOR EACH SECTION OF PIPE BETWEEN LINES VALVES SHALL NOT EXCEED THE LIMITS SET FORTH IN THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
10. VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES WHERE AN ADDITIONAL VALVES SHALL BE PLACED ON THE TAPPING TEE. OTHER VALVE LOCATIONS, SUCH AS WHERE CROSS PANS EXIST, ARE SHOWN ON THE PLANS.
11. WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.50 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
12. THE CONTRACTOR SHALL NOTIFY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER 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.
13. PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS, LATEST REVISION.
14. THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES 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.
15. 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.
16. VALVE BOXES: TYLER SCREW-TYPE 6 INCHES CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE. CLAY AND BAILEY SCREW-TYPE 6 INCH CAST IRON VALVE BOX ASSEMBLY NO. P-108 WITH NO. 106 LARGE OVAL BASE.
17. ALL PIPE LENGTHS ARE APPROXIMATE.
18. 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 REPRESENTATIVE OF OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE PARKER WATER AND SANITATION DISTRICT SPECIFICATION.
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 PARKER WATER AND SANITATION DISTRICT STANDARD AND 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 UNIT 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.
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. ALL PIPE LENGTHS ARE APPROXIMATE.
12. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.
13. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
14. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
15. PRIOR TO START WORK WHERE SEWER MAIN TO BE INSTALLED INTO EXISTING DISTRICT 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 ACCEPTANCE BY THE DISTRICT. ITS PURPOSE SHALL BE TO PREVENT ANY MUD, WATER OR OTHER MATERIALS FROM ENTERING THE LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN SO INSTRUCTED BY THE DISTRICT.
16. PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CLIENT SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

DISTRICT ACCEPTANCE NOTES:

1. UPON COMPLETION OF SANITARY SEWER AND WATER CONSTRUCTION AND TESTING, THE DEVELOPER OR CONTRACTOR SHALL CONTACT THE DISTRICT FOR PROBATIONARY ACCEPTANCE INSPECTION. A PUNCHLIST WILL BE PROVIDED THE DEVELOPER AND CONTRACTOR UPON COMPLETION OF THE INITIAL WALK-THRU AND PROBATIONARY ACCEPTANCE WILL BE ISSUED FOLLOWING COMPLETION AND ACCEPTANCE OF THE WORK OUTLINED IN THE PUNCHLIST.
2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF THE LINES 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 REMEDIATED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
3. THE DATE OF FINAL ACCEPTANCE WILL BE INDICATED IN THE CONDITIONS OF THE PROBATIONARY ACCEPTANCE LETTER. THE DEVELOPER SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT FOR FINAL INSPECTION AND FINAL ACCEPTANCE.

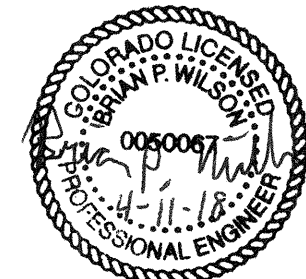
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CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC
1-800-922-1987

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 86 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.


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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.

PREPARED UNDER THE SUPERVISION OF



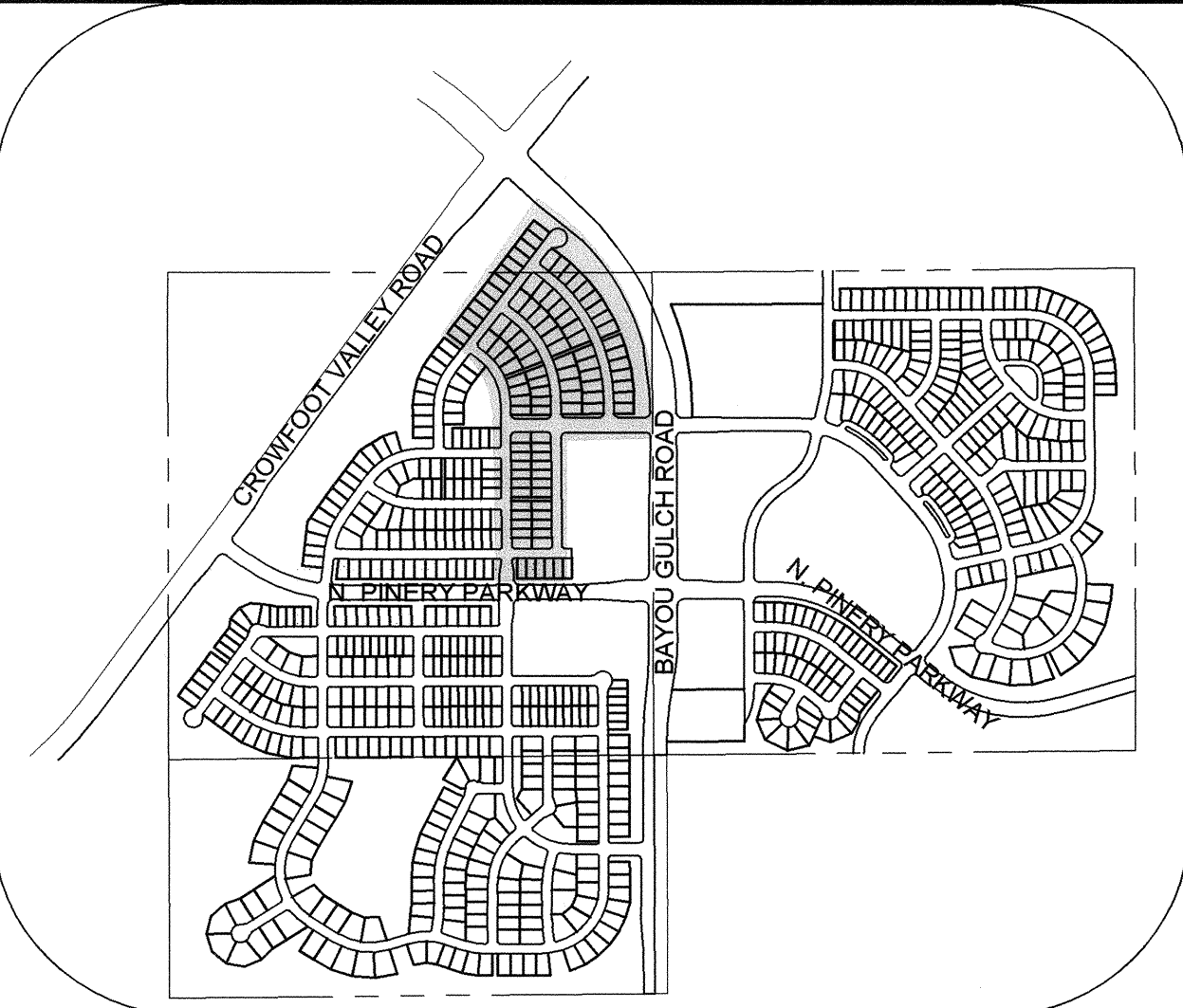
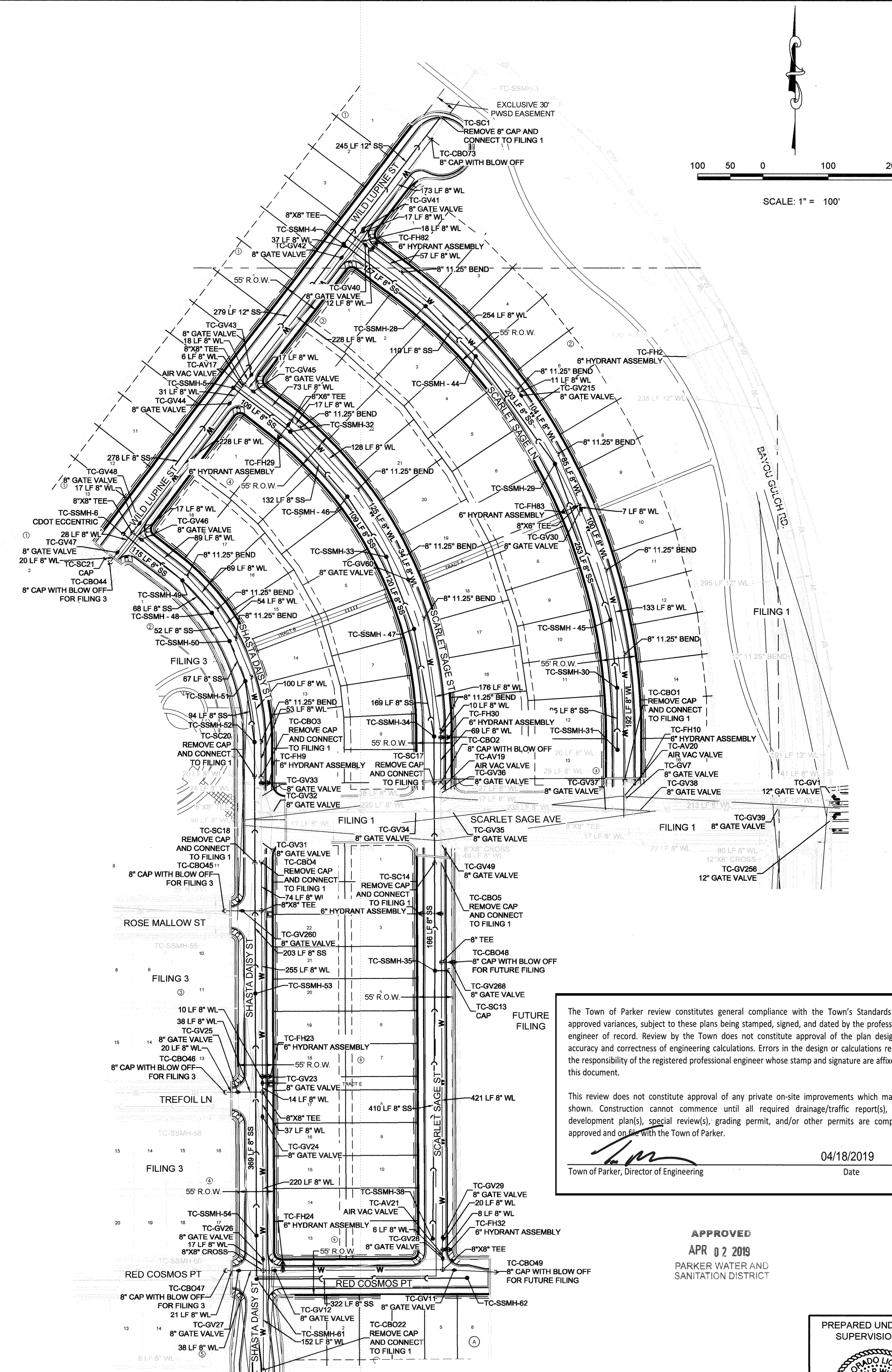
BRIAN P. WILSON
COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JJ	DATE: AUGUST 2017	SCALE:	AS SHOWN	FILE NO:	8130283701
				TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS PARKER WATER AND SANITATION NOTES			
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112				10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 488-9546 Fax: (720) 488-9546			
				No. _____ Revisions _____ Date _____ Init. _____ Appr. _____ Date _____			

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F2.B1.L1	WILD LUPINE ST	23+88.83	23+98.83
F2.B1.L2	WILD LUPINE ST	23+28.83	23+38.83
F2.B1.L3	WILD LUPINE ST	22+68.83	22+78.83
F2.B1.L4	WILD LUPINE ST	22+08.83	22+18.83
F2.B1.L5	WILD LUPINE ST	21+48.83	21+58.83
F2.B1.L6	WILD LUPINE ST	20+88.83	20+98.83
F2.B1.L7	WILD LUPINE ST	20+15.58	20+25.58
F2.B1.L8	WILD LUPINE ST	19+68.83	19+78.83
F2.B1.L9	WILD LUPINE ST	18+78.83	18+88.83
F2.B1.L10	WILD LUPINE ST	18+18.83	18+08.83
F2.B1.L11	WILD LUPINE ST	17+58.83	17+48.83
F2.B1.L12	WILD LUPINE ST	17+03.73	16+93.73
F2.B1.L13	WILD LUPINE ST	16+44.56	16+18.99
F2.B2.L1	SCARLET SAGE LN	10+49.23	10+34.50
F2.B2.L2	SCARLET SAGE LN	11+13.50	10+99.86
F2.B2.L3	SCARLET SAGE LN	11+66.81	11+57.50
F2.B2.L4	SCARLET SAGE LN	12+26.00	12+15.97
F2.B2.L5	SCARLET SAGE LN	12+83.95	12+74.80
F2.B2.L6	SCARLET SAGE LN	13+42.86	13+33.01
F2.B2.L7	SCARLET SAGE LN	13+99.32	13+86.60
F2.B2.L8	SCARLET SAGE LN	14+58.11	14+44.93
F2.B2.L9	SCARLET SAGE LN	15+08.10	14+99.50
F2.B2.L10	SCARLET SAGE LN	15+65.81	15+76.22
F2.B2.L11	SCARLET SAGE LN	16+49.52	16+34.64
F2.B2.L12	SCARLET SAGE LN	17+03.44	16+88.91
F2.B2.L13	SCARLET SAGE LN	17+56.18	17+47.23
F2.B2.L14	SCARLET SAGE LN	18+13.35	18+01.17
F2.B2.L15	SCARLET SAGE LN	18+68.40	18+58.88
F2.B2.L16	SCARLET SAGE LN	19+29.95	19+19.95
F2.B3.L1	SCARLET SAGE LN	10+47.50	10+37.50
F2.B3.L2	SCARLET SAGE LN	11+33.79	11+25.26
F2.B3.L3	SCARLET SAGE LN	11+93.19	11+83.55
F2.B3.L4	SCARLET SAGE LN	12+75.92	12+54.11
F2.B3.L5	SCARLET SAGE LN	13+39.56	13+24.33
F2.B3.L6	SCARLET SAGE LN	14+19.48	14+09.33
F2.B3.L7	SCARLET SAGE LN	14+93.51	14+84.12
F2.B3.L8	SCARLET SAGE LN	15+82.43	15+70.84
F2.B3.L9	SCARLET SAGE LN	16+52.33	16+37.65
F2.B3.L10	SCARLET SAGE LN	17+35.11	17+13.48
F2.B3.L11	SCARLET SAGE LN	17+94.27	17+86.29
F2.B3.L12	SCARLET SAGE LN	18+61.73	18+52.31
F2.B3.L13	SCARLET SAGE LN	19+29.95	19+17.92
F2.B3.L14	SCARLET SAGE LN	16+61.75	16+51.75
F2.B3.L15	SCARLET SAGE LN	16+06.71	15+94.24
F2.B3.L16	SCARLET SAGE LN	15+44.89	15+33.63
F2.B3.L17	SCARLET SAGE LN	14+83.02	14+73.64
F2.B3.L18	SCARLET SAGE LN	14+28.07	14+17.96
F2.B3.L19	SCARLET SAGE LN	13+60.50	13+41.83
F2.B3.L20	SCARLET SAGE LN	12+91.84	12+81.03
F2.B3.L21	SCARLET SAGE LN	12+35.76	12+24.80
F2.B3.L22	SCARLET SAGE LN	11+73.12	11+63.97
F2.B3.L23	SCARLET SAGE LN	11+29.62	11+06.68
F2.B3.L24	SCARLET SAGE LN	10+54.33	10+36.50
F2.B4.L1	SCARLET SAGE ST	10+46.50	10+33.00
F2.B4.L2	SCARLET SAGE ST	11+31.63	11+21.12
F2.B4.L3	SCARLET SAGE ST	11+94.70	11+83.74
F2.B4.L4	SCARLET SAGE ST	12+69.86	12+61.09
F2.B4.L5	SCARLET SAGE ST	13+42.85	13+31.98
F2.B4.L6	SCARLET SAGE ST	14+48.43	14+38.25
F2.B4.L7	SCARLET SAGE ST	15+03.32	14+94.21
F2.B4.L8	SCARLET SAGE ST	15+65.22	15+54.94
F2.B4.L9	SCARLET SAGE ST	16+21.80	16+10.58

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F2.B4.L10	SCARLET SAGE ST	16+81.75	16+71.75
F2.B4.L11	SHASTA DAISY ST	14+20.25	14+10.25
F2.B4.L12	SHASTA DAISY ST	13+73.75	13+63.19
F2.B4.L13	SHASTA DAISY ST	13+23.85	13+14.74
F2.B4.L14	SHASTA DAISY ST	12+78.83	12+68.84
F2.B4.L15	SHASTA DAISY ST	12+10.63	12+00.83
F2.B4.L16	SHASTA DAISY ST	11+61.30	11+51.19
F2.B4.L17	SHASTA DAISY ST	11+22.09	11+01.52
F2.B4.L18	SHASTA DAISY ST	10+49.20	10+34.20
F2.B5.L1	SCARLET SAGE ST	18+36.65	18+13.03
F2.B5.L2	SCARLET SAGE ST	18+79.76	18+69.76
F2.B5.L3	SCARLET SAGE ST	19+29.76	19+19.76
F2.B5.L4	SCARLET SAGE ST	19+79.76	19+69.76
F2.B5.L5	SCARLET SAGE ST	20+33.54	20+23.15
F2.B5.L6	SCARLET SAGE ST	20+79.76	20+69.76
F2.B5.L7	SCARLET SAGE ST	21+29.76	21+19.76
F2.B5.L8	SCARLET SAGE ST	21+99.76	21+89.76
F2.B5.L9	SCARLET SAGE ST	22+49.75	22+39.75
F2.B5.L10	SCARLET SAGE ST	22+99.76	22+89.76
F2.B5.L11	SCARLET SAGE ST	23+49.76	23+39.76
F2.B5.L12	SCARLET SAGE ST	23+99.76	23+89.76
F2.B5.L13	SHASTA DAISY ST	21+43.30	21+33.30
F2.B5.L14	SHASTA DAISY ST	20+93.30	20+83.30
F2.B5.L15	SHASTA DAISY ST	20+43.30	20+33.30
F2.B5.L16	SHASTA DAISY ST	19+93.30	19+83.30
F2.B5.L17	SHASTA DAISY ST	19+43.30	19+33.30
F2.B5.L18	SHASTA DAISY ST	18+73.30	18+63.30
F2.B5.L19	SHASTA DAISY ST	18+23.30	18+13.30
F2.B5.L20	SHASTA DAISY ST	17+73.30	17+63.30
F2.B5.L21	SHASTA DAISY ST	17+23.30	17+13.30
F2.B5.L22	SHASTA DAISY ST	16+73.30	16+63.30
F2.B5.L23	SHASTA DAISY ST	16+23.30	16+13.30
F2.B5.L24	SHASTA DAISY ST	15+73.49	15+53.16
F2.B6.L1	RED COSMOS PT	20+44.70	20+34.70
F2.B6.L2	RED COSMOS PT	20+94.70	20+84.70
F2.B6.L3	RED COSMOS PT	21+44.70	21+34.70
F2.B6.L4	RED COSMOS PT	21+94.70	21+84.70
F2.B6.L5	RED COSMOS PT	22+44.70	22+34.70
F2.B6.L6	RED COSMOS PT	22+94.78	22+84.70
F3.B3.L10	SHASTA DAISY ST	17+05.16	16+95.16
F3.B3.L11	SHASTA DAISY ST	17+68.44	17+58.44
F3.B3.L12	SHASTA DAISY ST	18+18.44	18+08.44
F3.B3.L13	SHASTA DAISY ST	18+68.44	18+58.44
F14.B1.L1	SCARLET SAGE ST	19+00.90	
F14.B1.L2	SCARLET SAGE ST	19+20.90	
F14.B2.L1	SCARLET SAGE ST	20+59.40	
F14.B2.L2	SCARLET SAGE ST	20+82.76	
F14.B2.L3	SCARLET SAGE ST	21+23.40	
F14.B2.L4	SCARLET SAGE ST	21+43.40	
F14.B2.L5	SCARLET SAGE ST	21+87.40	
F14.B2.L6	SCARLET SAGE ST	22+07.40	
F14.B2.L7	SCARLET SAGE ST	22+64.90	
F14.B2.L8	SCARLET SAGE ST	22+84.90	
F14.B2.L9	SCARLET SAGE ST	23+28.90	
F14.B2.L10	SCARLET SAGE ST	23+52.76	
F14.B2.L11	SCARLET SAGE ST	23+92.90	
F14.B2.L12	SCARLET SAGE ST	24+12.90	



KEYMAP N.T.S. LEGEND	
2	BLOCK NUMBER
A	LOT TYPE
6	LOT NUMBER
⊕	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
⊕	PROPOSED SIDEWALK RAMP
⊕	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
---	EXISTING 5' CONTOUR
---	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
---	EXISTING FIBER OPTIC LINE
---	EXISTING OVERHEAD POWER
---	EXISTING TELEPHONE LINE

ABBREVIATIONS	
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
RRC	REINFORCED CONCRETE BOX CULVERT
RCB	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SD	SANITARY CAP
SC	SANITARY DRAIN
SS	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

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, 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.

[Signature]
Town of Parker, Director of Engineering
Date: 04/18/2019

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

PREPARED UNDER THE SUPERVISION OF
[Signature]
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 SCHEDULED 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: *[Signature]* DATE: 4-21-19
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: *[Signature]* DATE: _____
(DISTRICT ENGINEER)

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

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.
[Signature] DATE: 4-12-19
(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE)

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 8 SOUTH, RANGE 86 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, 2848.70 FEET.

10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9528 Fax: (720) 462-9546

CVL CONSULTANTS

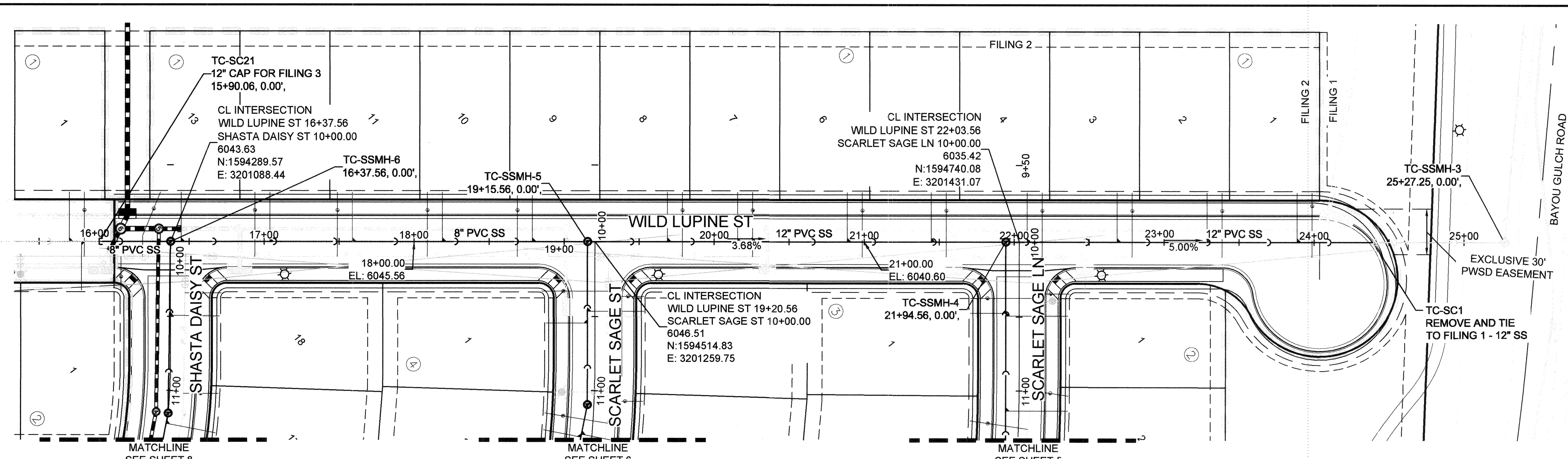
HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

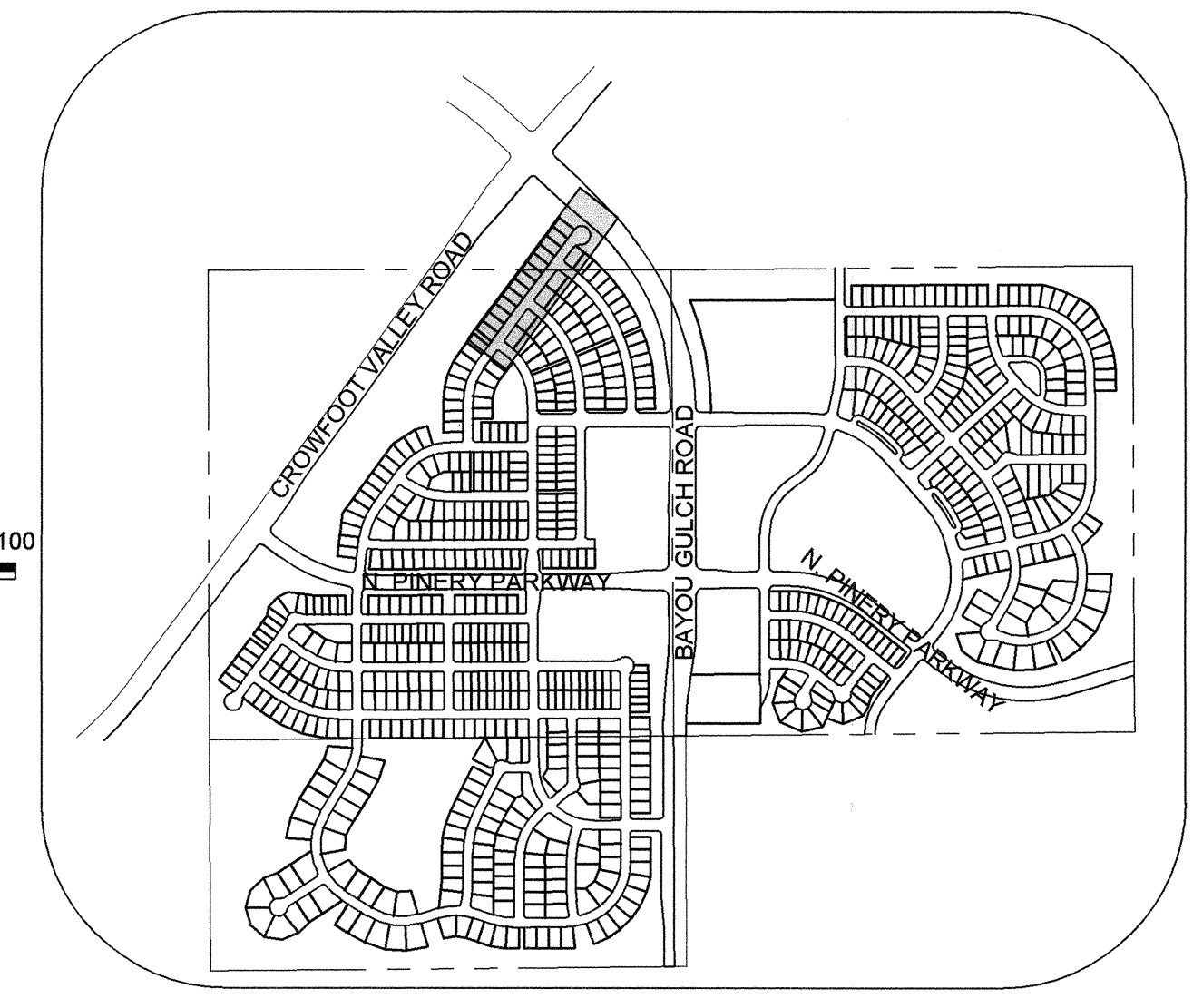
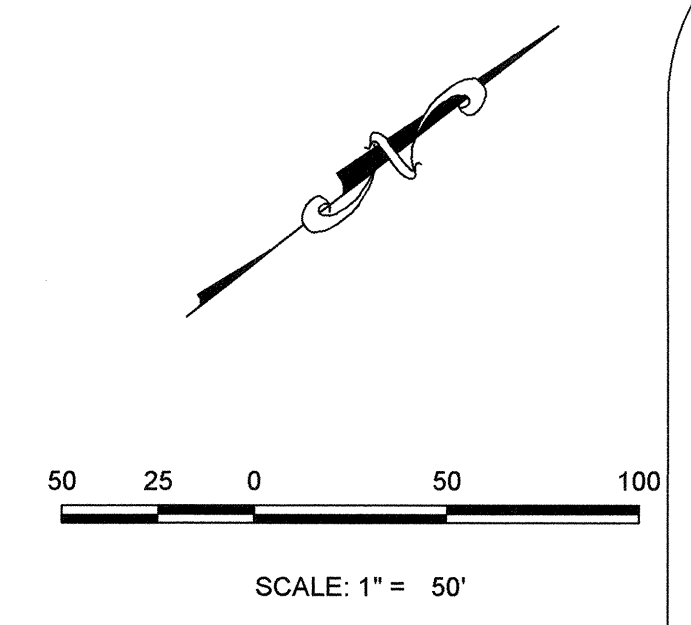
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CHECKED BY: JLU
DATE: AUGUST 2017

SHEET NUMBER: 3

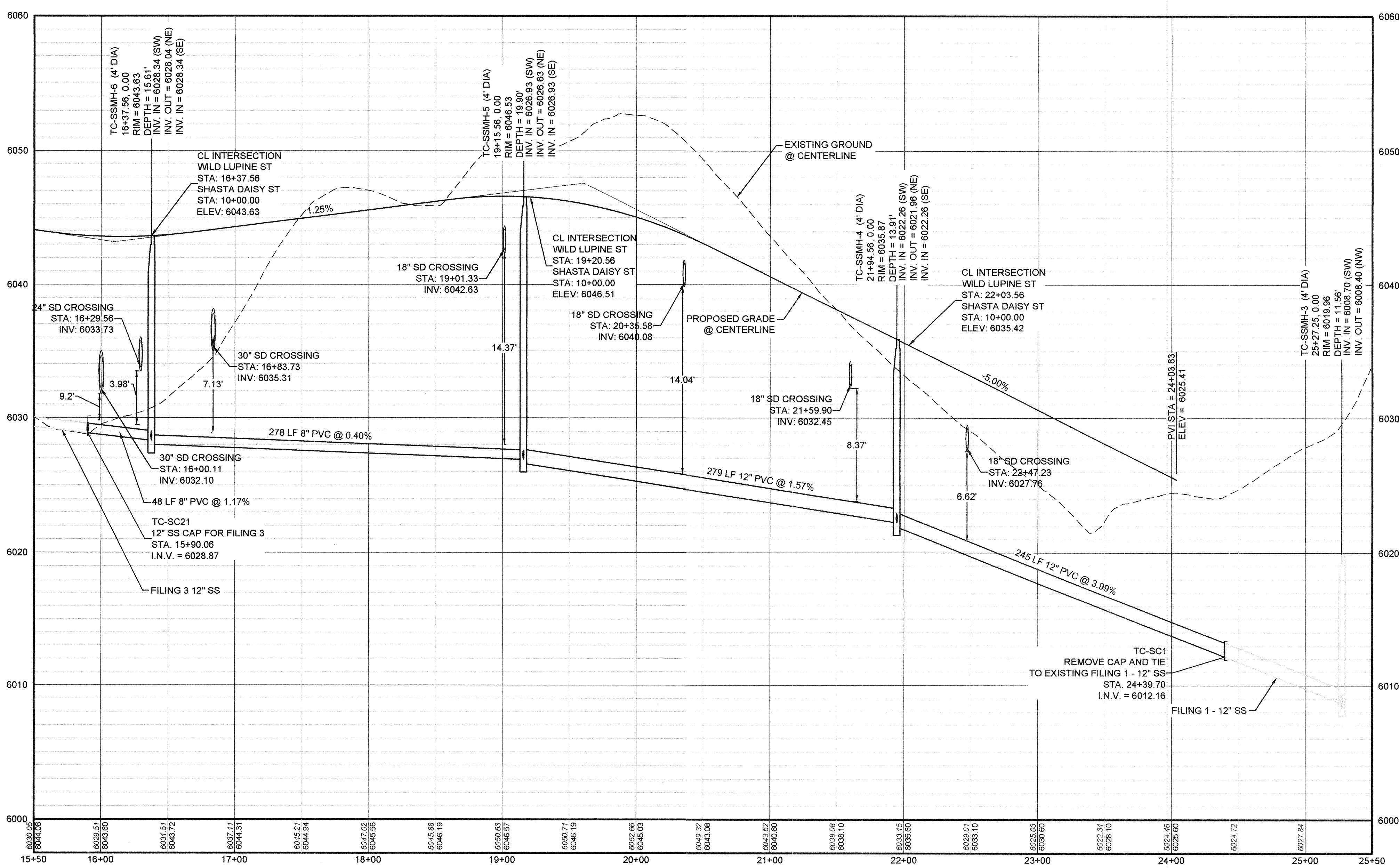
Revisions: No. _____ Date _____ Init. _____



PLAN: WILD LUPINE ST STA: 15+50.00 TO 25+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.
LEGEND



PROFILE: WILD LUPINE ST STA: 15+50.00 TO 25+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2,B1,L1	WILD LUPINE ST	23+88.83
F2,B1,L2	WILD LUPINE ST	23+28.83
F2,B1,L3	WILD LUPINE ST	22+68.83
F2,B1,L4	WILD LUPINE ST	22+08.83
F2,B1,L5	WILD LUPINE ST	21+44.83
F2,B1,L6	WILD LUPINE ST	20+88.83
F2,B1,L7	WILD LUPINE ST	20+15.58
F2,B1,L8	WILD LUPINE ST	19+68.83
F2,B1,L9	WILD LUPINE ST	18+78.83
F2,B1,L10	WILD LUPINE ST	18+18.83
F2,B1,L11	WILD LUPINE ST	17+58.83
F2,B1,L12	WILD LUPINE ST	17+03.73
F2,B1,L13	WILD LUPINE ST	16+44.56

LEGEND

- ⊙ BLOCK NUMBER
- Ⓐ LOT TYPE
- 6 LOT NUMBER
- ⊕ 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
- ⊕ PROPOSED SIDEWALK RAMP
- ⊕ 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
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED WATER LATERAL
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD POWER
- 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
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	RCF	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
FH	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

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Fax: (720) 482-9946

CVL
CONSULTANTS

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
WILD LUPINE ST

SCALE: AS SHOWN
FILE NO: 8130283701

DRAWN BY: KJD
CHECKED BY: JU
DATE: AUGUST 2017

SHEET NUMBER: 4

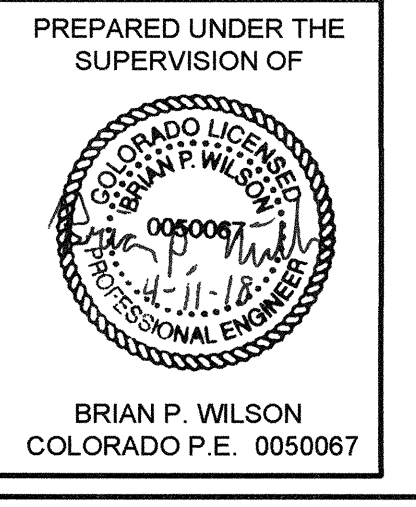
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PARKER WATER AND
SANITATION DISTRICT

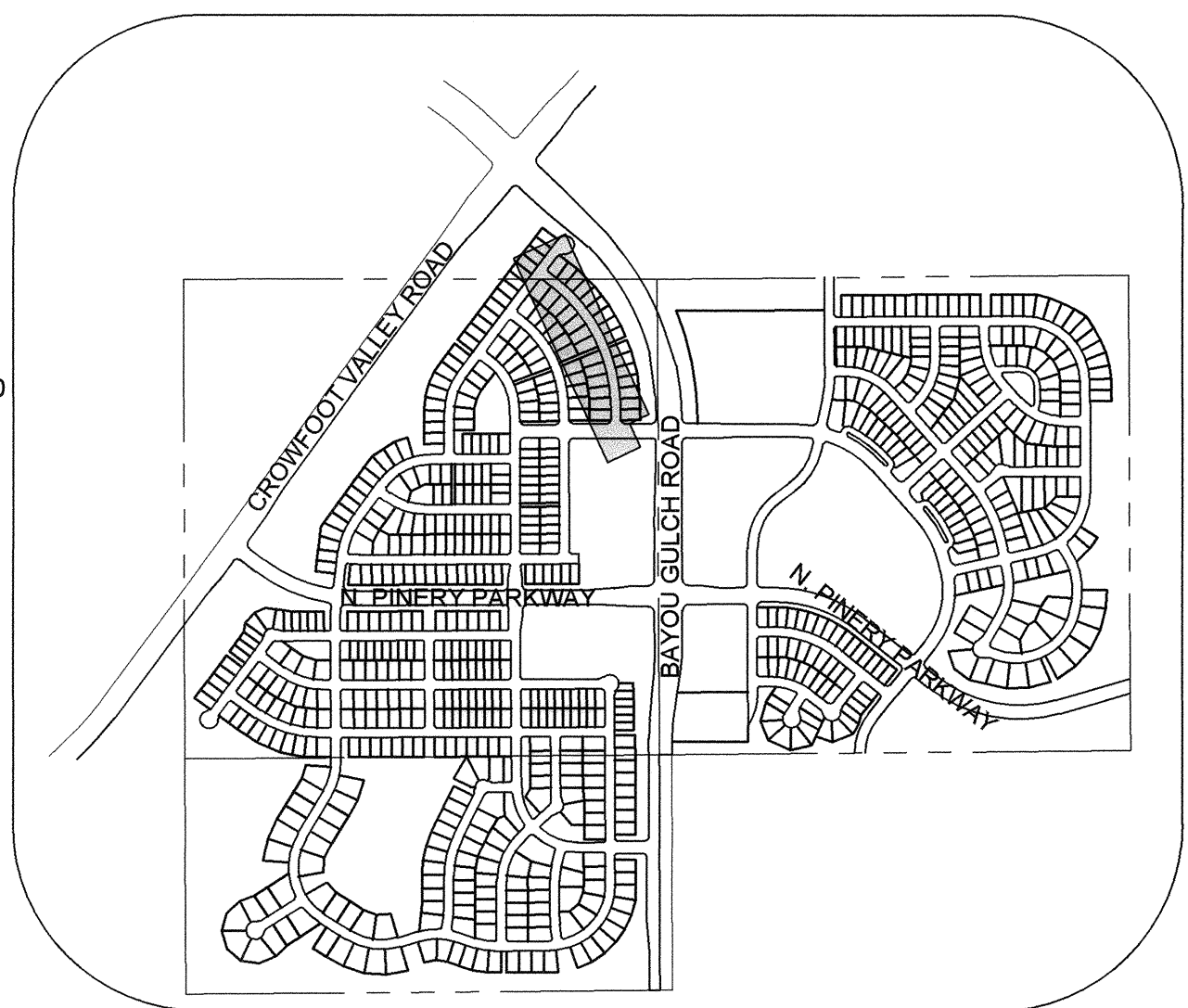
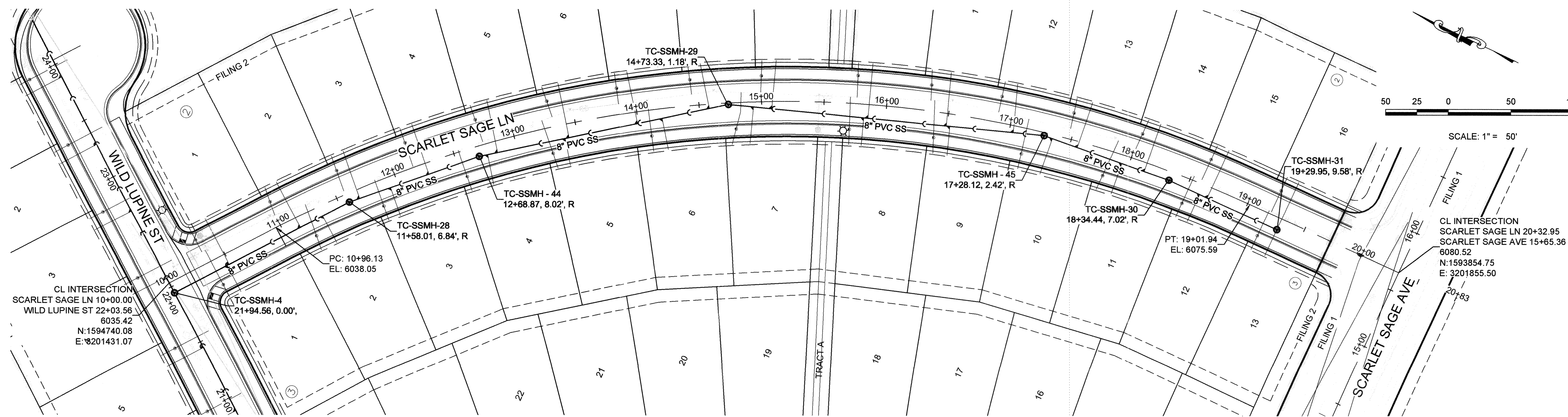
PREPARED UNDER THE
SUPERVISION OF
BRIAN P. WILSON
COLORADO P.E. 0050067

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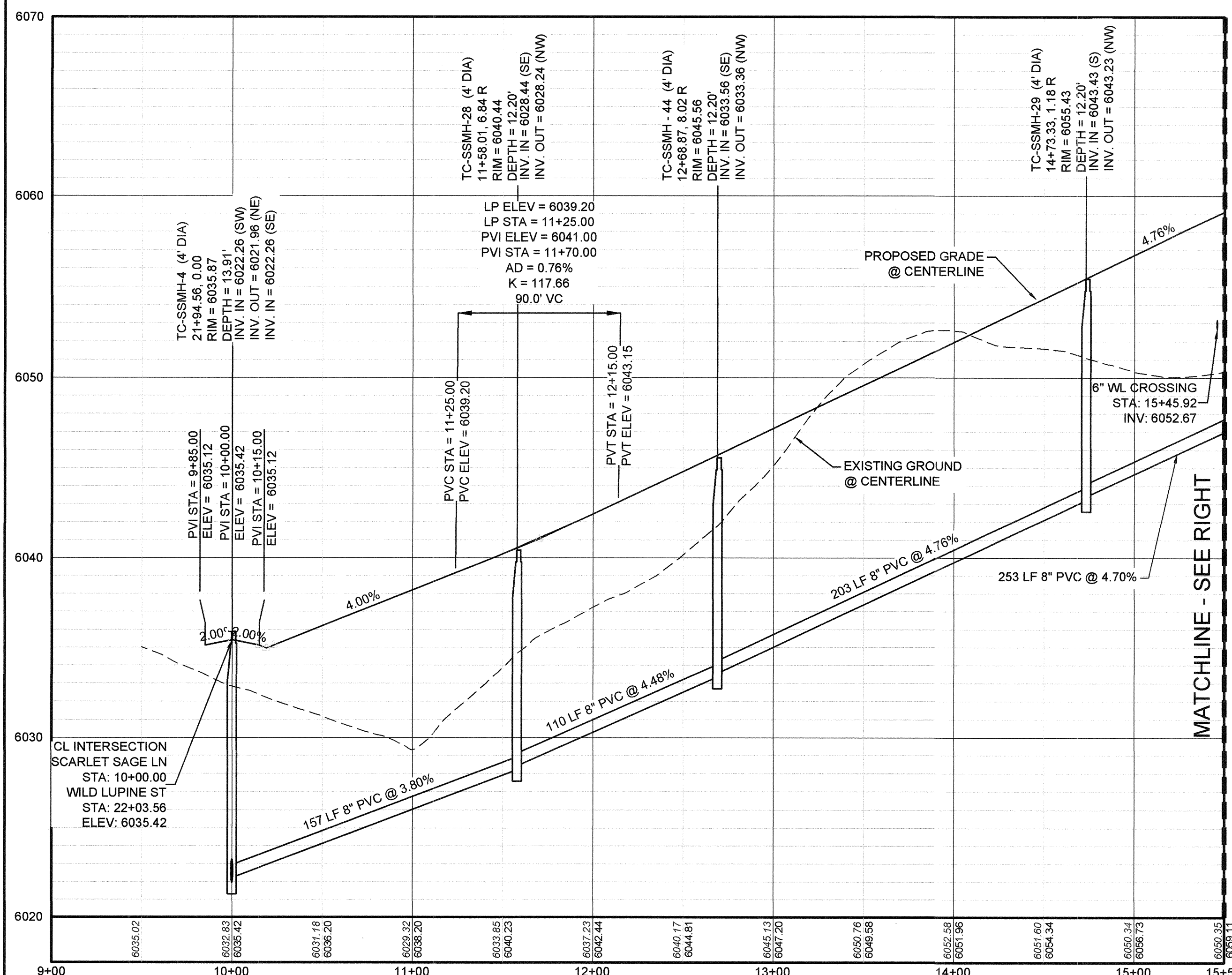
BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 86 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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 6835 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

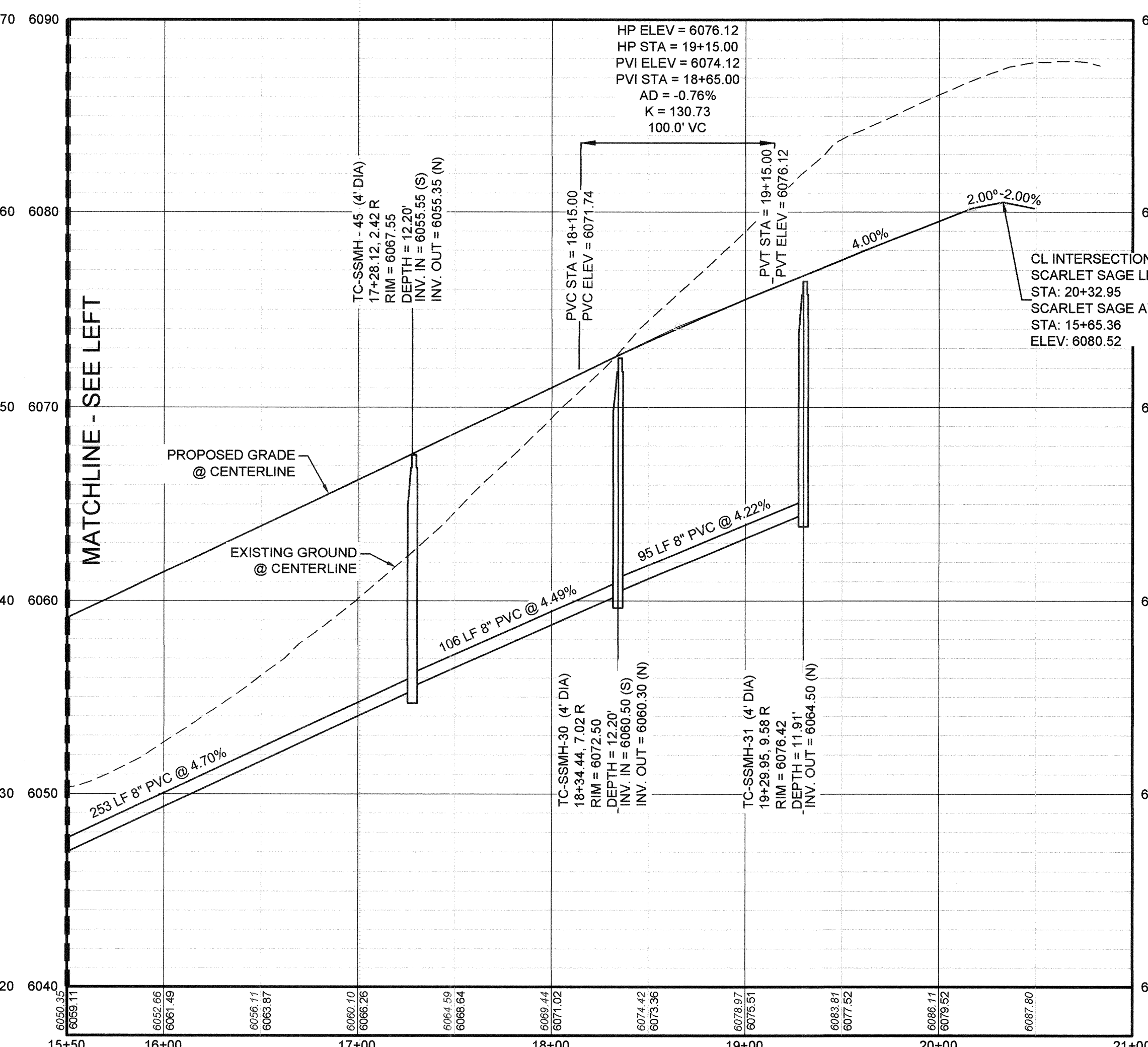




PLAN: SCARLET SAGE LN STA: 09+00.00 TO 21+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SCARLET SAGE LN STA: 9+00.00 TO 15+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: SCARLET SAGE LN STA: 15+50.00 TO 21+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND			
(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	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
⊕	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OPTIC LINE
		---	EXISTING OVERHEAD POWER
		---	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
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCR	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
FH	FIRE HYDRANT	SS	SANITARY SEWER STATION
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

NOTES:
1. SEE SHEET 3 FOR F2, B2, L1-16 & F2, B3, L1-13 SANITARY SERVICE DETAILS.

CALL 811
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UNCC
1-800-922-1987

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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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

10333 E. Dry Creek Rd.
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Tel: (720) 482-9828
Fax: (720) 482-9846

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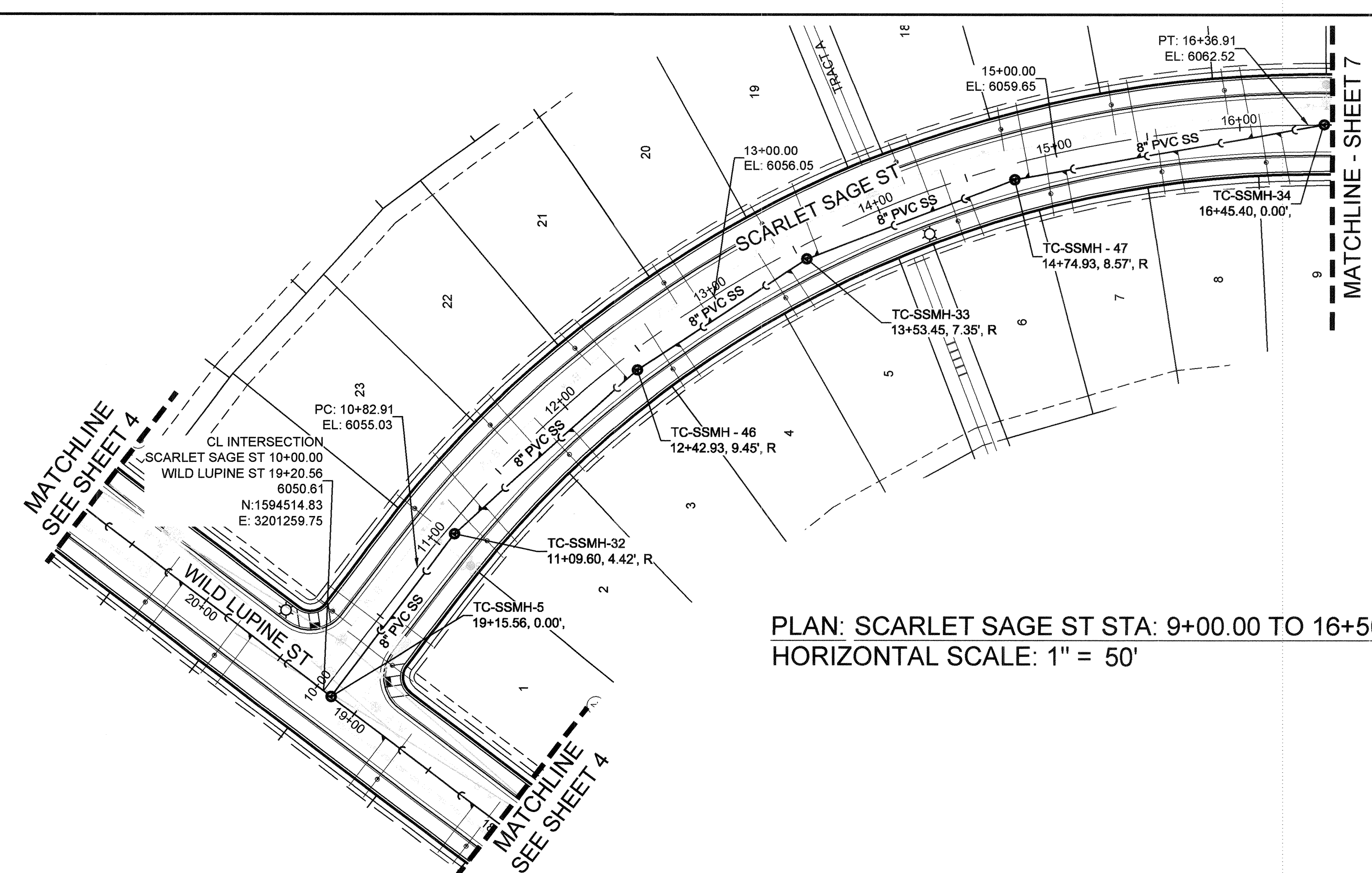
TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SCARLET SAGE LN

SCALE: AS SHOWN
FILE NO: 8130283701

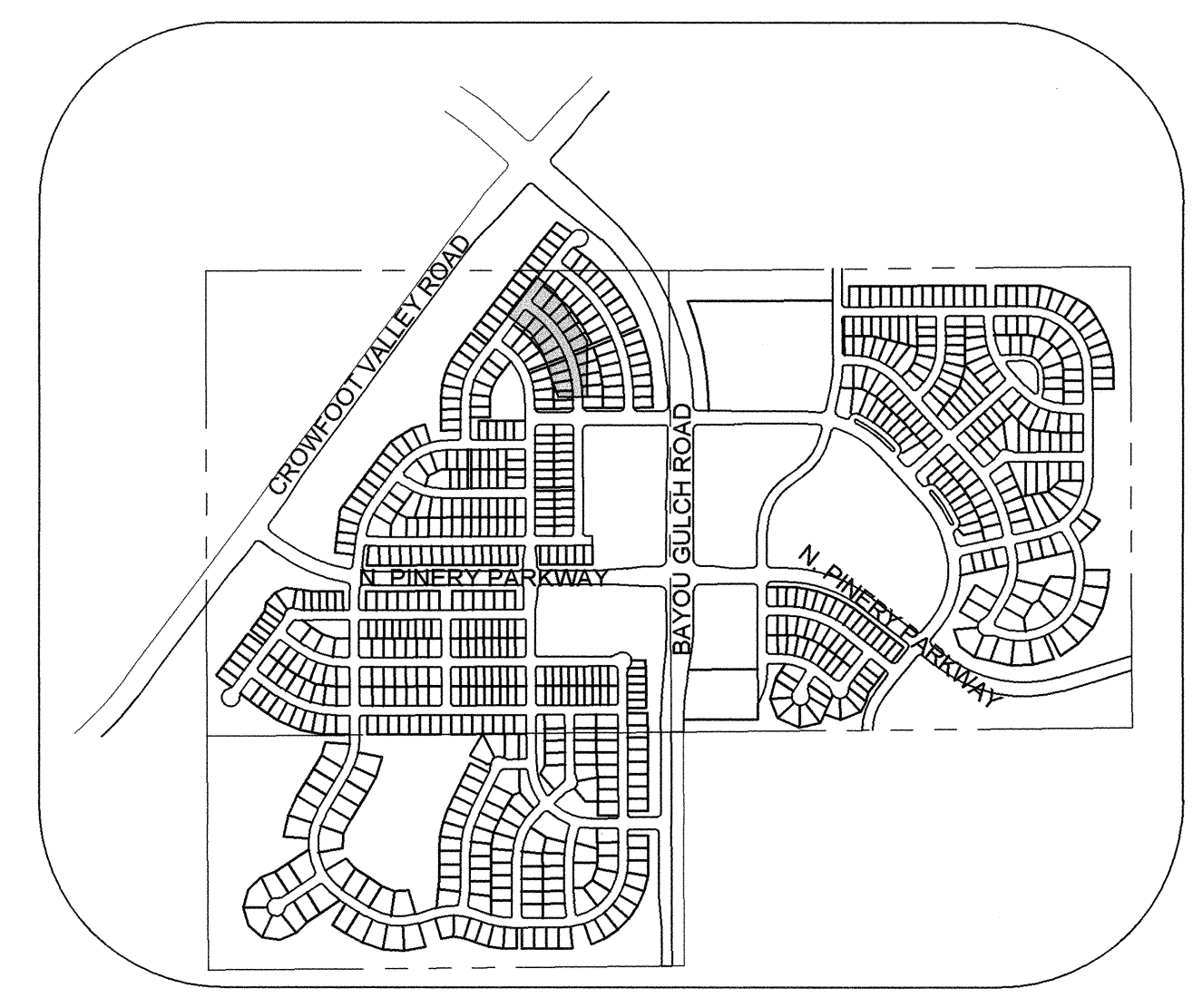
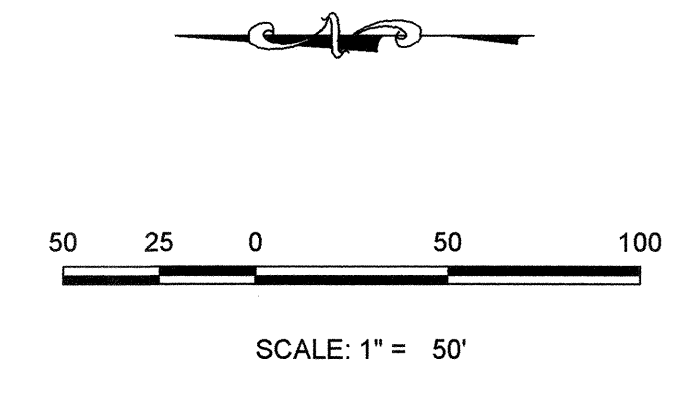
DRAWN BY: KJD
CHECKED BY: JJU
DATE: AUGUST 2017

SHEET NUMBER: 5

No. Revisions: _____
Date: _____
Appr.: _____
Date: _____



PLAN: SCARLET SAGE ST STA: 9+00.00 TO 16+50.00
HORIZONTAL SCALE: 1" = 50'

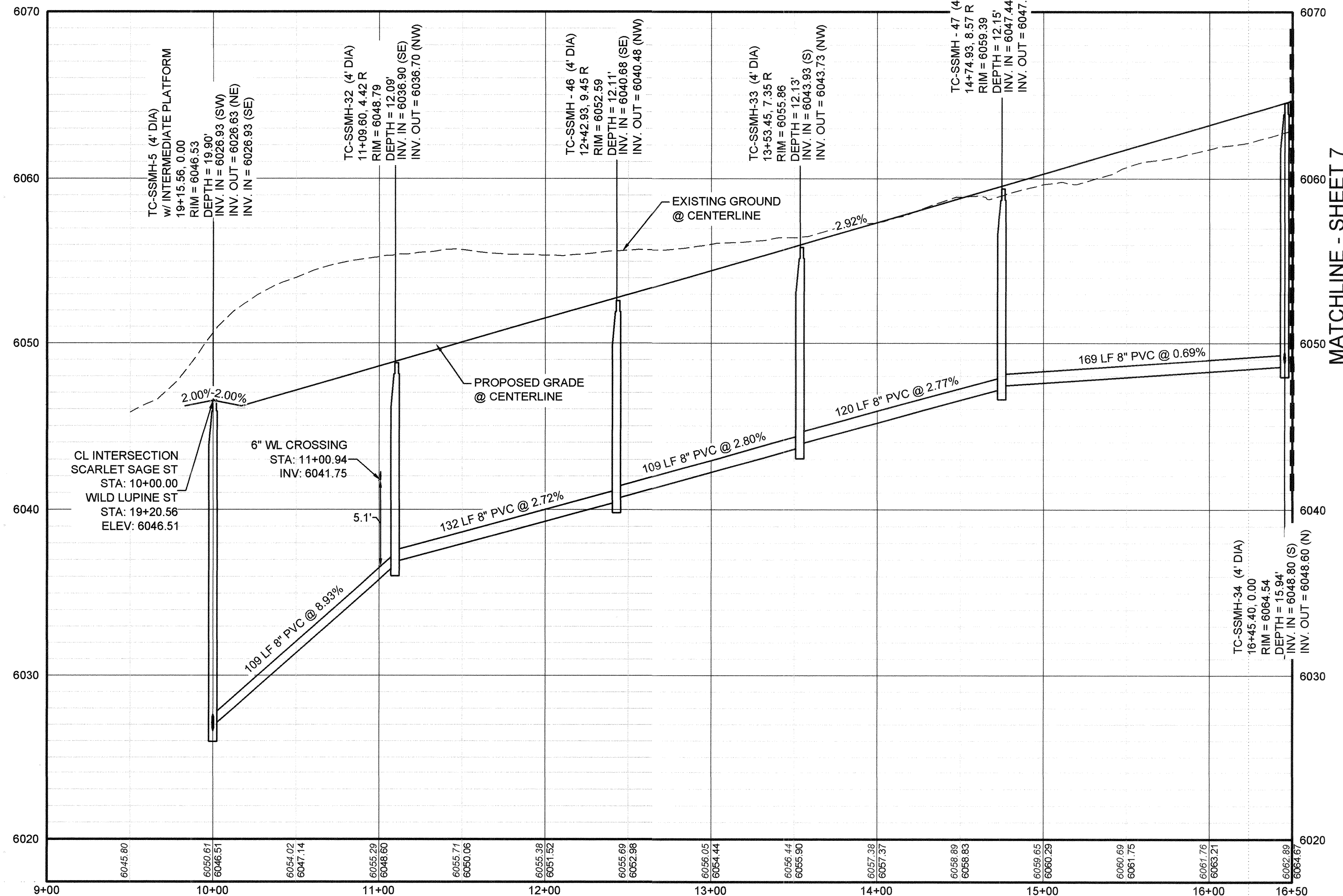


KEYMAP
N.T.S.
LEGEND

⊙	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	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
⊕	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE

SANITARY SERVICE TABLE			
FILING, BLOCK, LOT	STREET	STATIONING	
F2.B3.L15	SCARLET SAGE ST	16+06.71	
F2.B3.L16	SCARLET SAGE ST	15+44.89	
F2.B3.L17	SCARLET SAGE ST	14+83.02	
F2.B3.L18	SCARLET SAGE ST	14+28.07	
F2.B3.L19	SCARLET SAGE ST	13+60.50	
F2.B3.L20	SCARLET SAGE ST	12+91.84	
F2.B3.L21	SCARLET SAGE ST	12+35.76	
F2.B3.L22	SCARLET SAGE ST	11+73.12	
F2.B3.L23	SCARLET SAGE ST	11+29.62	
F2.B3.L24	SCARLET SAGE ST	10+54.33	
F2.B4.L1	SCARLET SAGE ST	10+46.50	
F2.B4.L2	SCARLET SAGE ST	11+31.63	
F2.B4.L3	SCARLET SAGE ST	11+94.70	
F2.B4.L4	SCARLET SAGE ST	12+69.86	
F2.B4.L5	SCARLET SAGE ST	13+42.85	
F2.B4.L6	SCARLET SAGE ST	14+48.43	
F2.B4.L7	SCARLET SAGE ST	15+03.32	
F2.B4.L8	SCARLET SAGE ST	15+65.22	
F2.B4.L9	SCARLET SAGE ST	16+21.80	

ABBREVIATIONS	
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
RCB	REINFORCED CONCRETE BOX CULVERT
RCR	REINFORCED CONCRETE RAMP
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



PROFILE: SCARLET SAGE ST STA: 9+00.00 TO 16+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.090032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 86 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.

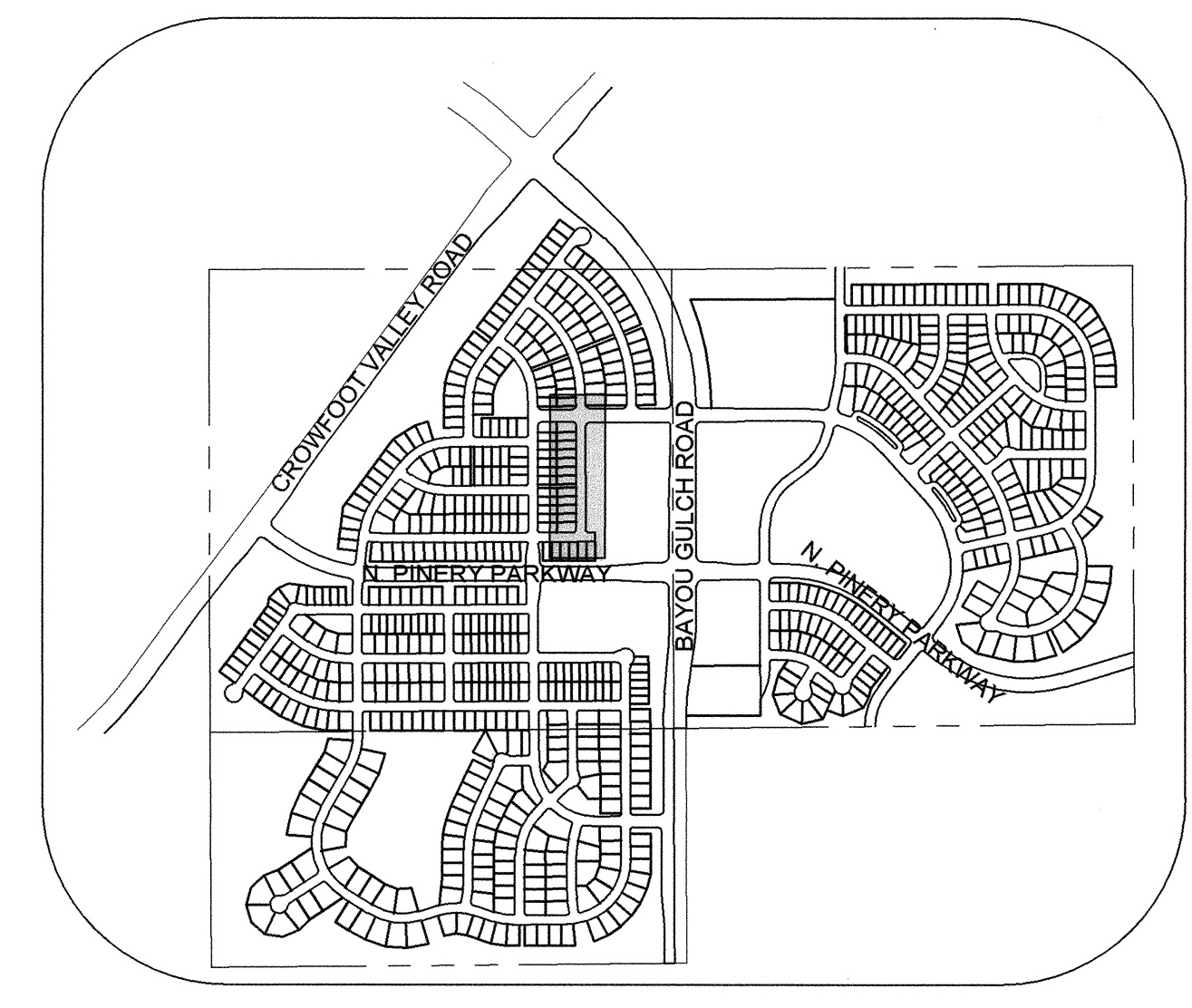
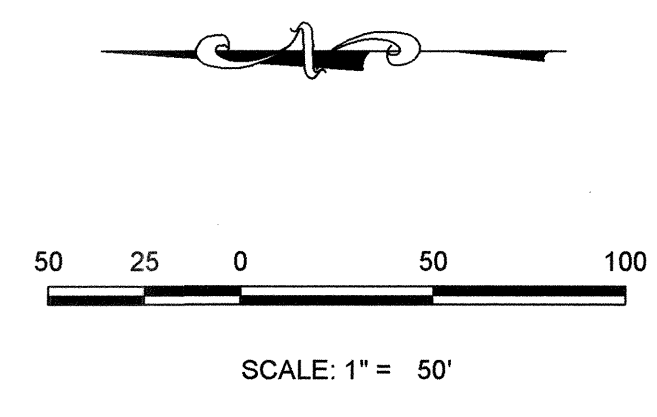
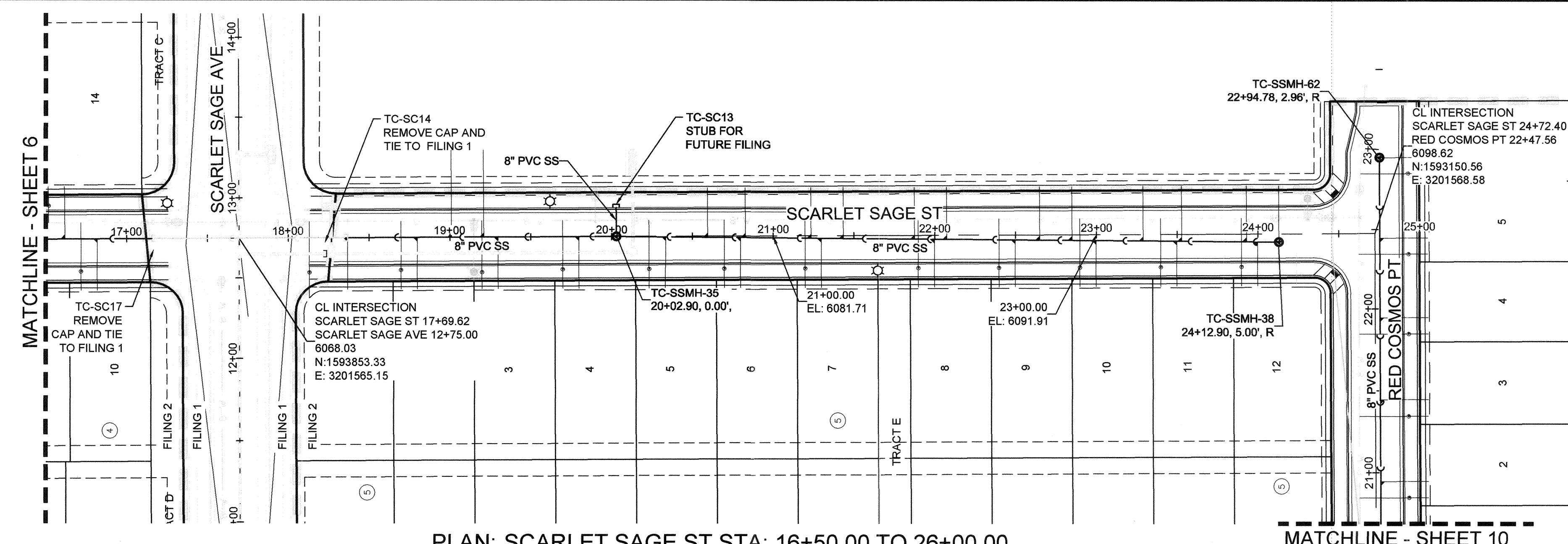
PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

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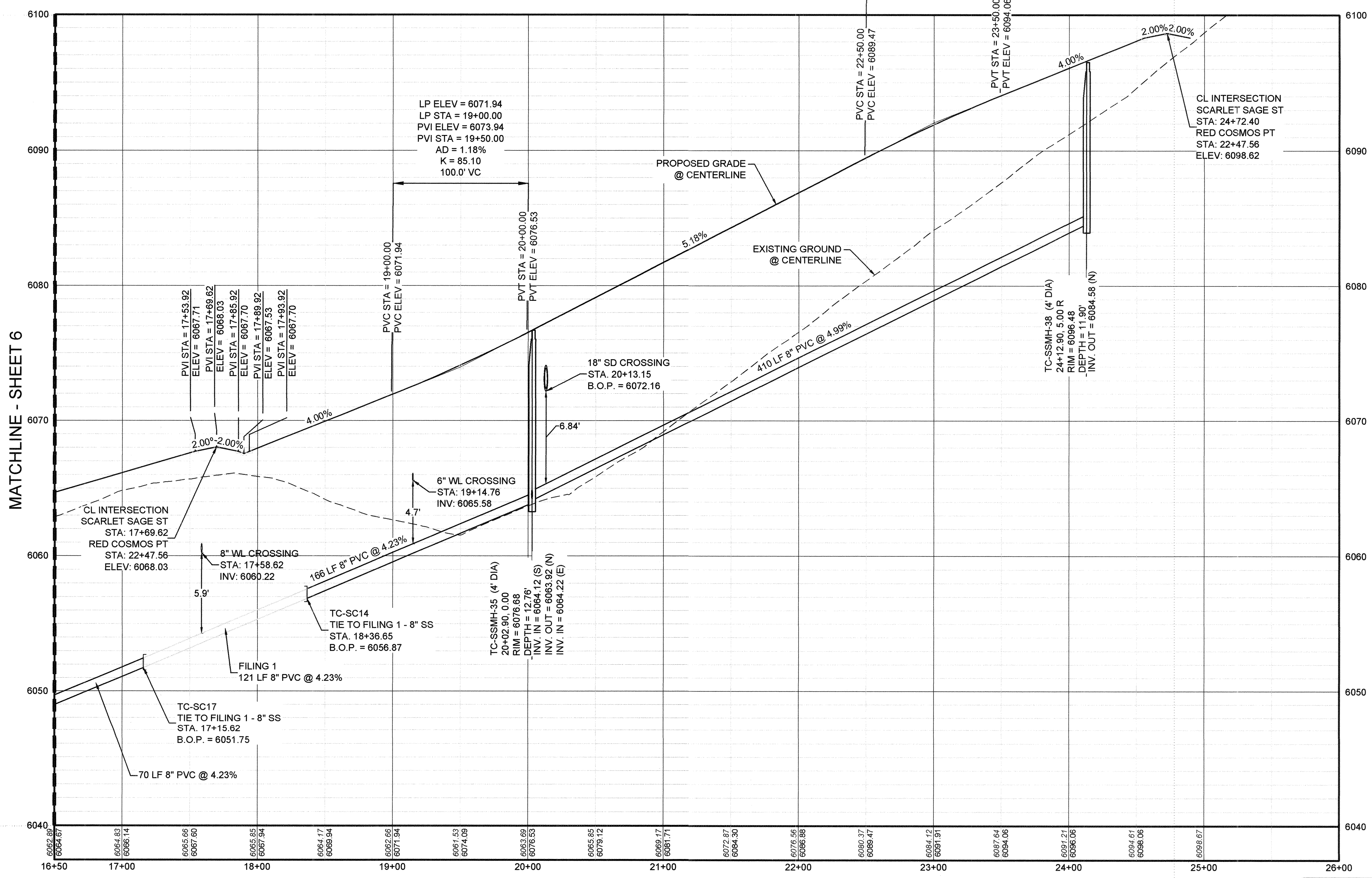
10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 462-8226 Fax: (720) 462-8946	Revisions	Date
CVL CONSULTANTS		
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112		
TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE SCARLET SAGE ST		
SCALE: AS SHOWN		
DRAWN BY: KID	CHECKED BY: JJJ	DATE: AUGUST 2017
SHEET NUMBER	FILE NO: 81302283701	
6		



PLAN: SCARLET SAGE ST STA: 16+50.00 TO 26+00.00
HORIZONTAL SCALE: 1" = 50'

MATCHLINE - SHEET 10

HP ELEV = 6094.06
HP STA = 23+50.00
PVI ELEV = 6092.06
PVI STA = 23+00.00
AD = -1.17%
K = 85.12
100.0' VC



PROFILE: SCARLET SAGE ST STA: 16+50.00 TO 26+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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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SANITARY SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B3,L14	SCARLET SAGE ST	16+61.75
F2,B4,L10	SCARLET SAGE ST	16+81.75
F2,B5,L1	SCARLET SAGE ST	18+36.65
F2,B5,L2	SCARLET SAGE ST	18+79.76
F2,B5,L3	SCARLET SAGE ST	19+29.76
F2,B5,L4	SCARLET SAGE ST	19+79.76
F2,B5,L5	SCARLET SAGE ST	20+33.54
F2,B5,L6	SCARLET SAGE ST	20+79.76
F2,B5,L7	SCARLET SAGE ST	21+29.76
F2,B5,L8	SCARLET SAGE ST	21+99.76
F2,B5,L9	SCARLET SAGE ST	22+49.75
F2,B5,L10	SCARLET SAGE ST	22+99.76
F2,B5,L11	SCARLET SAGE ST	23+49.76
F2,B5,L12	SCARLET SAGE ST	23+99.76
F14,B1,L1	SCARLET SAGE ST	19+00.90
F14,B1,L2	SCARLET SAGE ST	19+20.90
F14,B2,L1	SCARLET SAGE ST	20+59.40
F14,B2,L2	SCARLET SAGE ST	20+82.76
F14,B2,L3	SCARLET SAGE ST	21+23.40
F14,B2,L4	SCARLET SAGE ST	21+43.40
F14,B2,L5	SCARLET SAGE ST	21+87.40
F14,B2,L6	SCARLET SAGE ST	22+07.40
F14,B2,L7	SCARLET SAGE ST	22+64.90
F14,B2,L8	SCARLET SAGE ST	22+84.90
F14,B2,L9	SCARLET SAGE ST	23+28.90
F14,B2,L10	SCARLET SAGE ST	23+52.76
F14,B2,L11	SCARLET SAGE ST	23+92.90
F14,B2,L12	SCARLET SAGE ST	24+12.90

LEGEND

- ⊙ BLOCK NUMBER
- Ⓐ LOT TYPE
- 6 LOT NUMBER
- ⊕ 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
- ⊕ 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
- 5618 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
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD POWER
- EXISTING TELEPHONE LINE

ABBREVIATIONS

- AD ANGLE DIFFERENCE
- AV AIR VAC RELEASE VALVE
- BVC BEGIN VERTICAL CURVE
- BVP BEGIN VERTICAL PROFILE
- CBO CAP WITH BLOW OFF
- CR 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
- PVT PT. OF VERTICAL INTERSECTION
- RCBC REINFORCED CONCRETE BOX CULVERT
- RCP 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

PREPARED UNDER THE SUPERVISION OF

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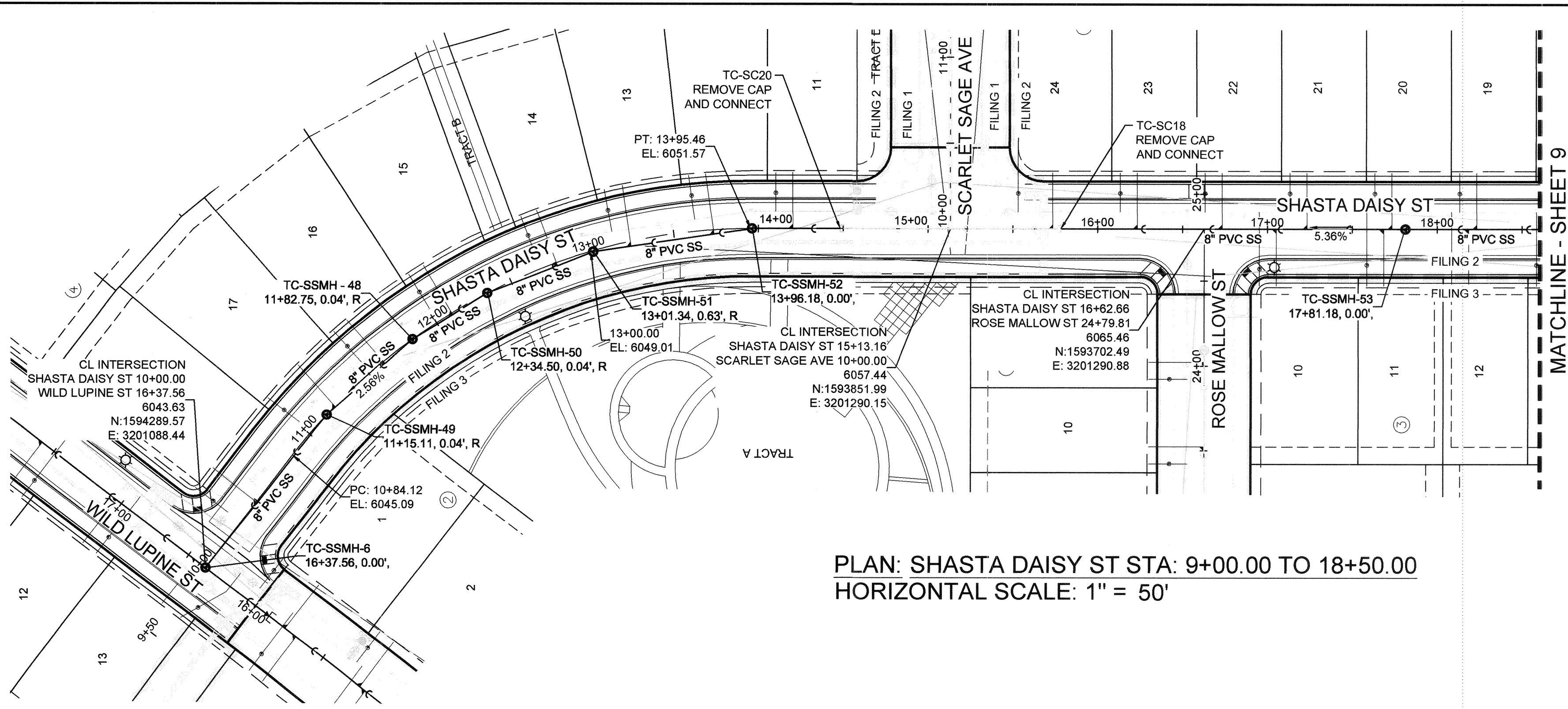
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7353 South Alton Way, CENTENNIAL, CO 80112

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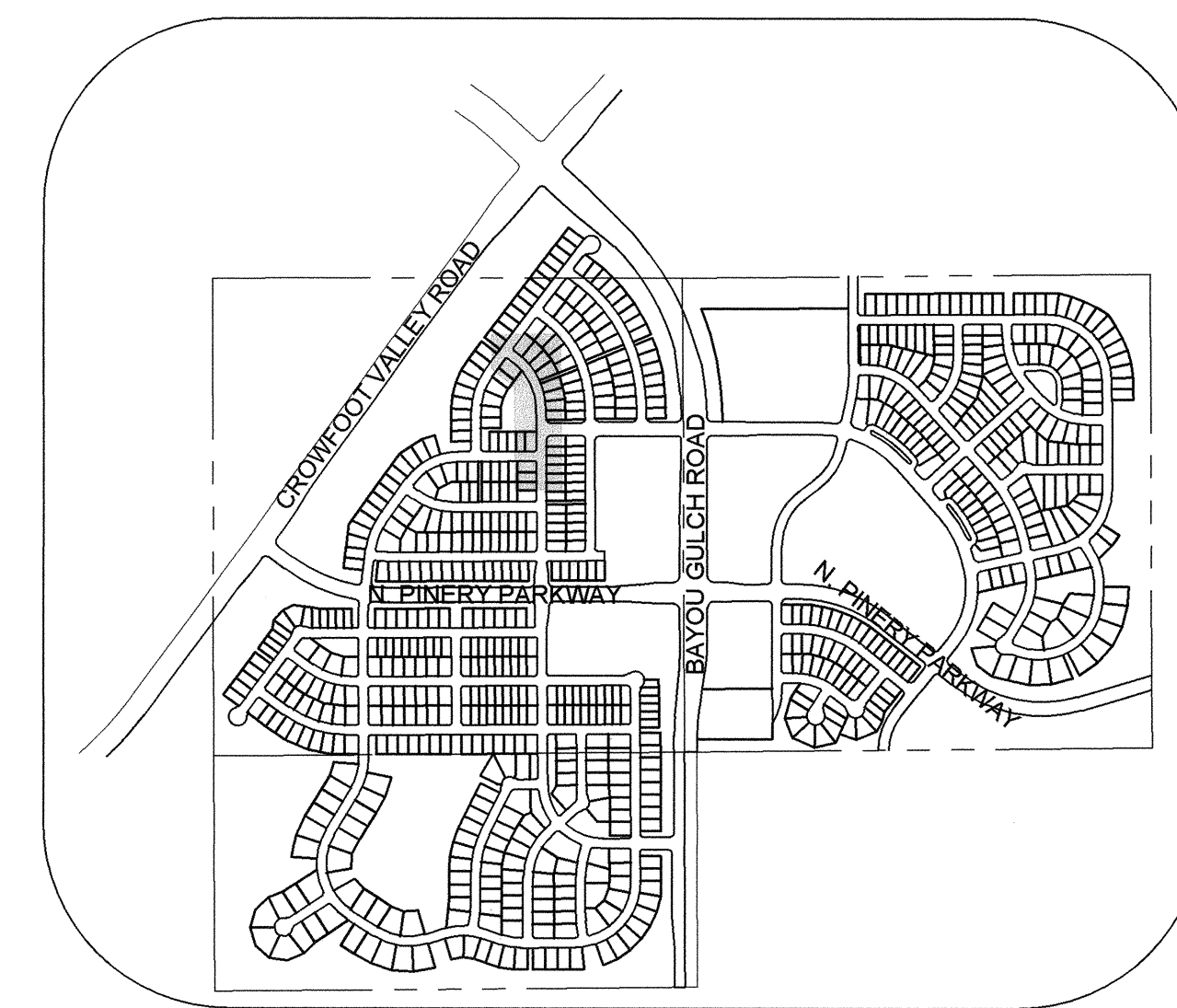
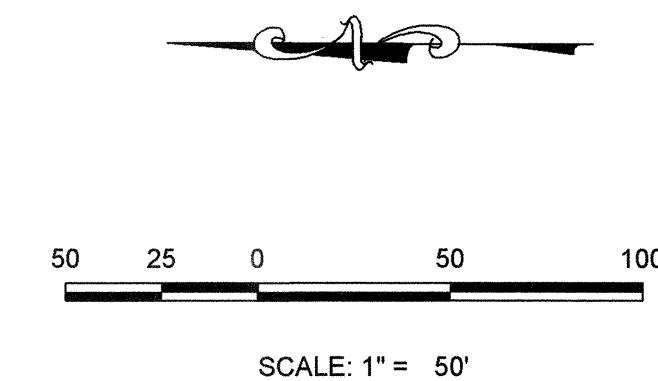
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SHEET NUMBER: 7

Revisions: No. Date Appr. Date



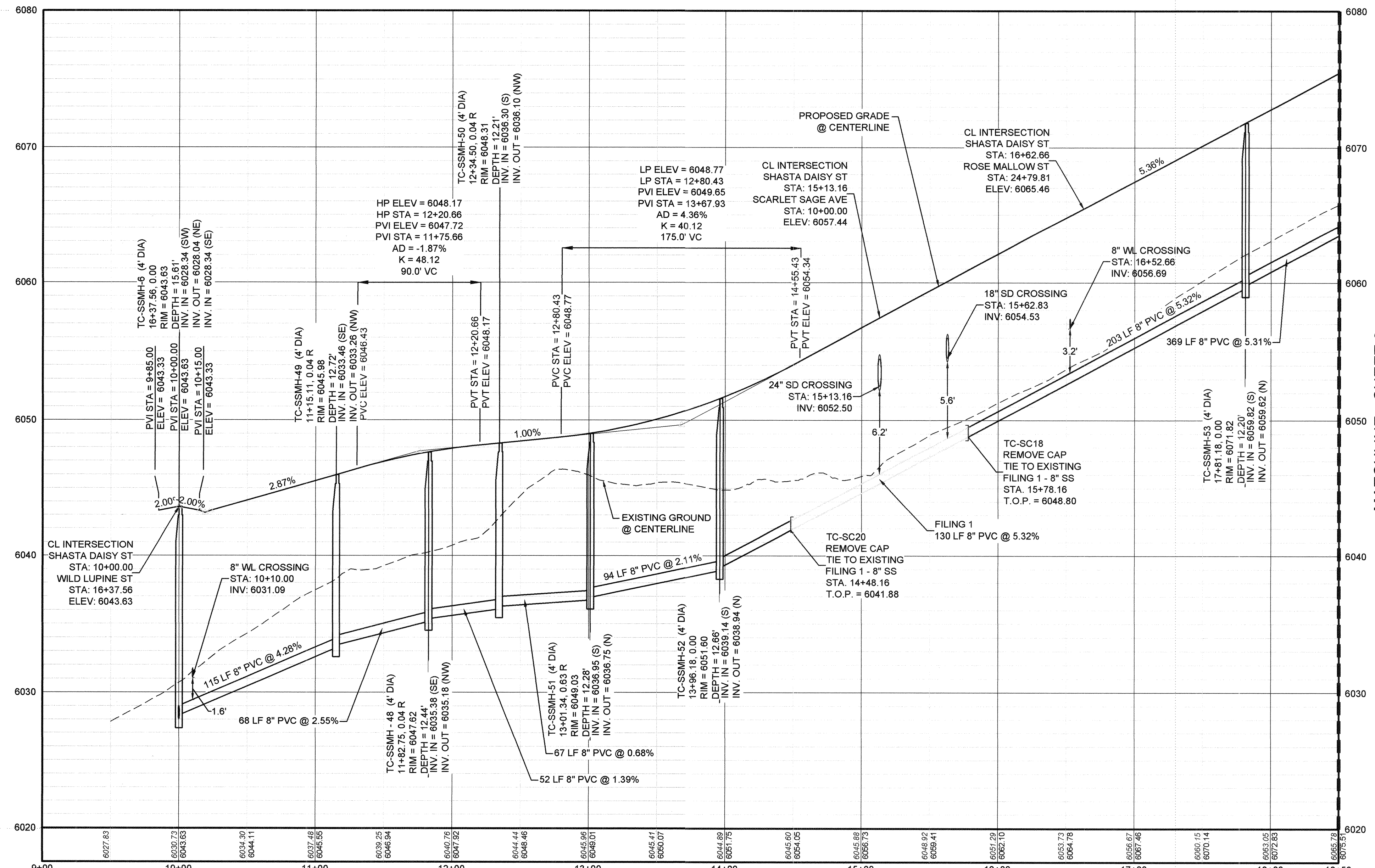
PLAN: SHASTA DAISY ST STA: 9+00.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.
LEGEND

SANITARY SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B4,L11	SHASTA DAISY ST	14+20.25
F2,B4,L12	SHASTA DAISY ST	13+73.75
F2,B4,L13	SHASTA DAISY ST	13+23.85
F2,B4,L14	SHASTA DAISY ST	12+78.83
F2,B4,L15	SHASTA DAISY ST	12+10.63
F2,B4,L16	SHASTA DAISY ST	11+61.30
F2,B4,L17	SHASTA DAISY ST	11+22.09
F2,B4,L18	SHASTA DAISY ST	10+49.20
F2,B5,L19	SHASTA DAISY ST	18+23.30
F2,B5,L20	SHASTA DAISY ST	17+73.30
F2,B5,L21	SHASTA DAISY ST	17+23.30
F2,B5,L22	SHASTA DAISY ST	16+73.30
F2,B5,L23	SHASTA DAISY ST	16+23.30
F2,B5,L24	SHASTA DAISY ST	15+73.49
F3,B3,L10	SHASTA DAISY ST	17+05.16
F3,B3,L11	SHASTA DAISY ST	17+68.44
F3,B3,L12	SHASTA DAISY ST	18+18.44

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	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
⊕	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OPTIC LINE
		---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE



PROFILE: SHASTA DAISY ST STA: 9+00.00 TO 18+50.00
HORIZONTAL: 1" = 50'
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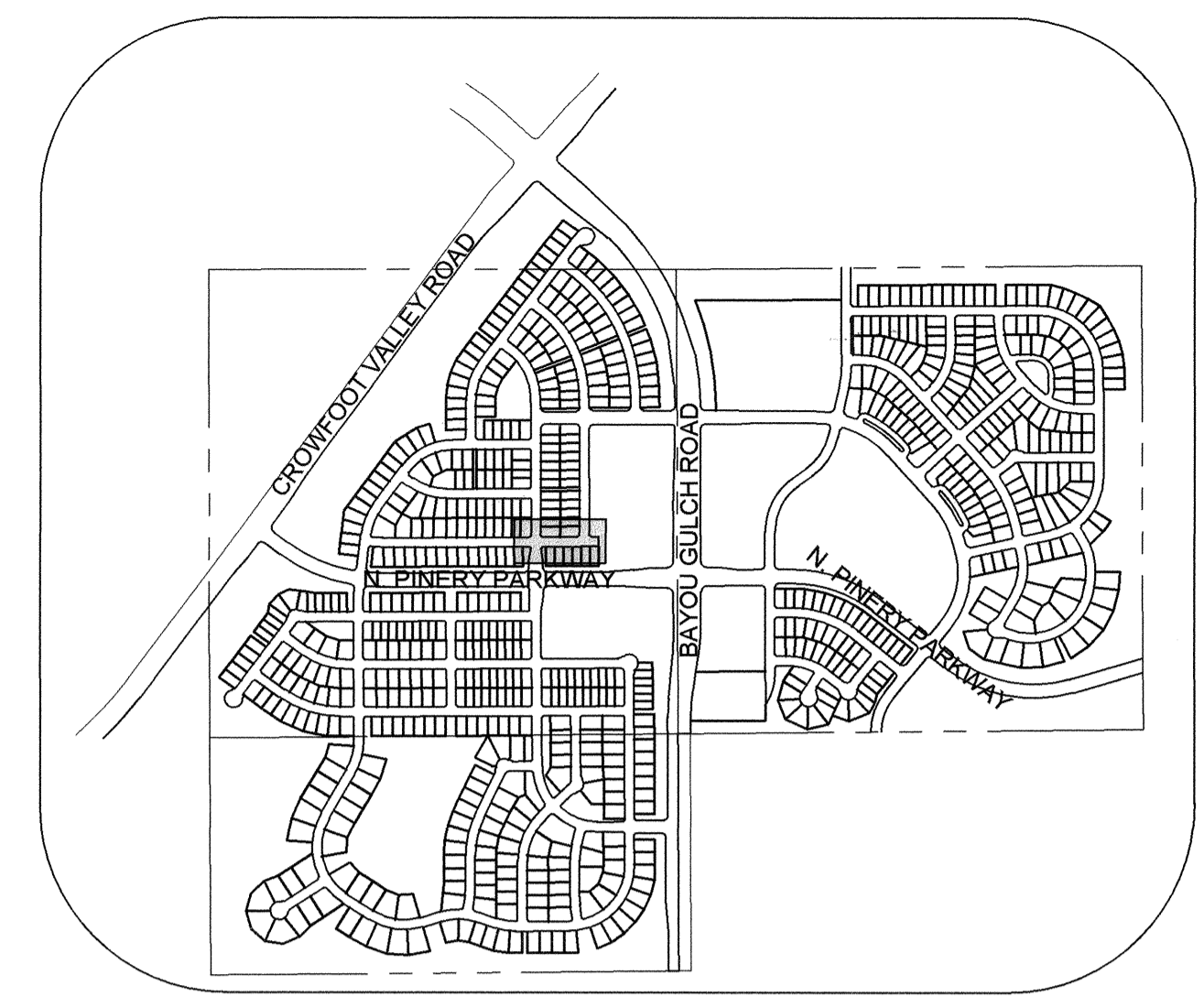
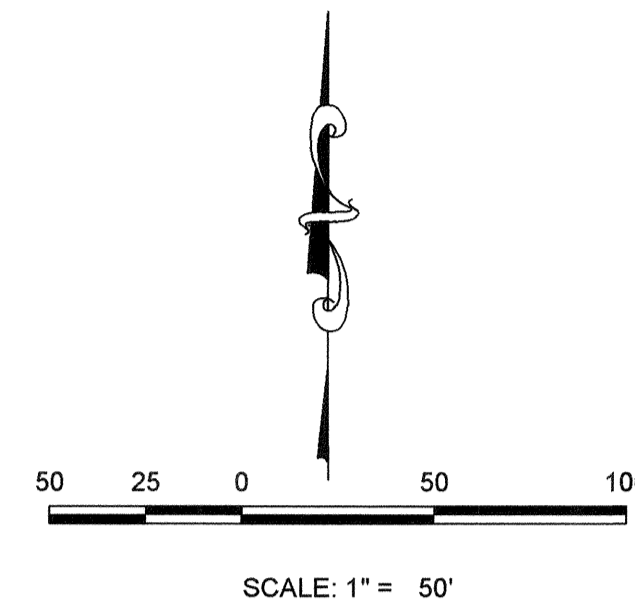
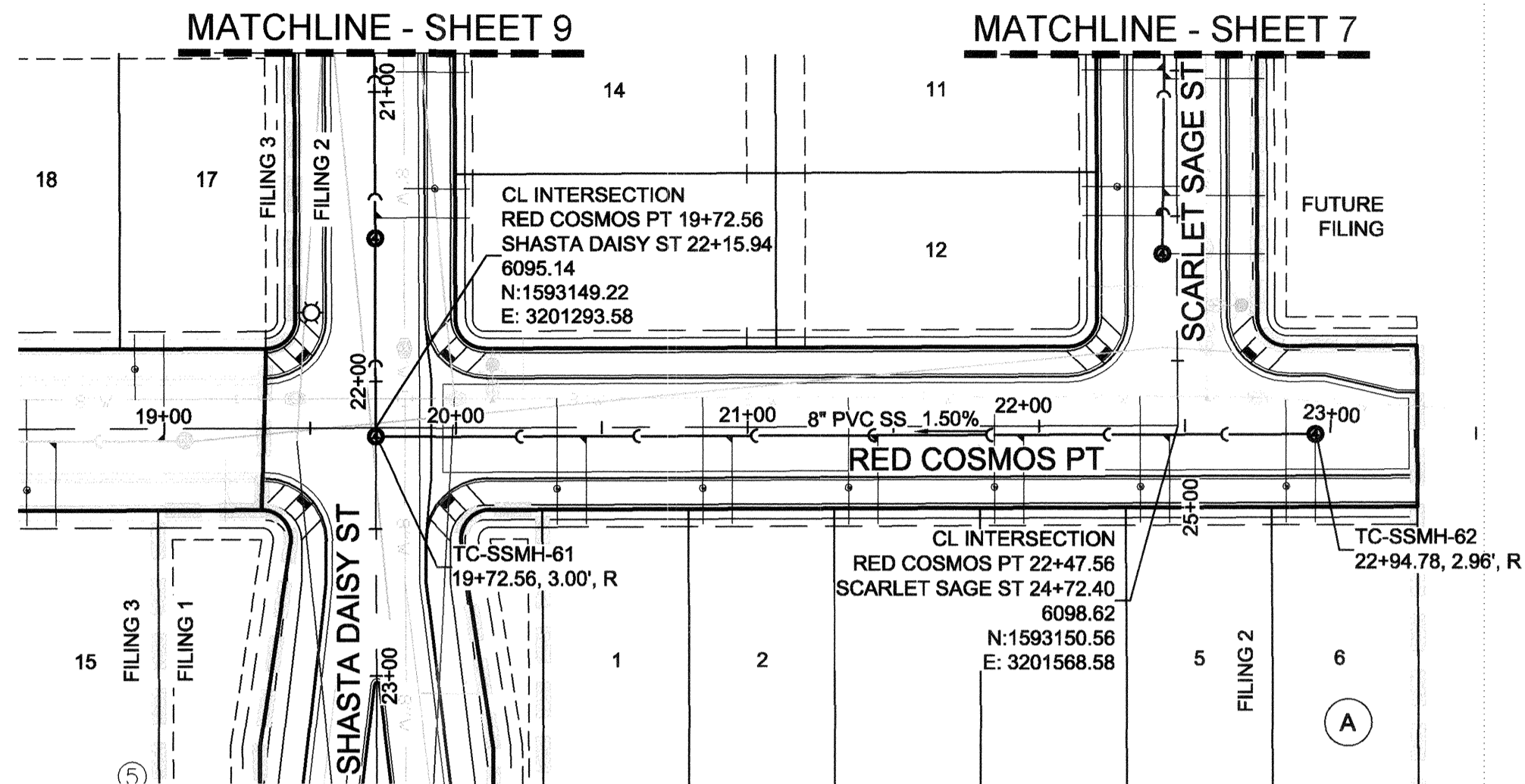
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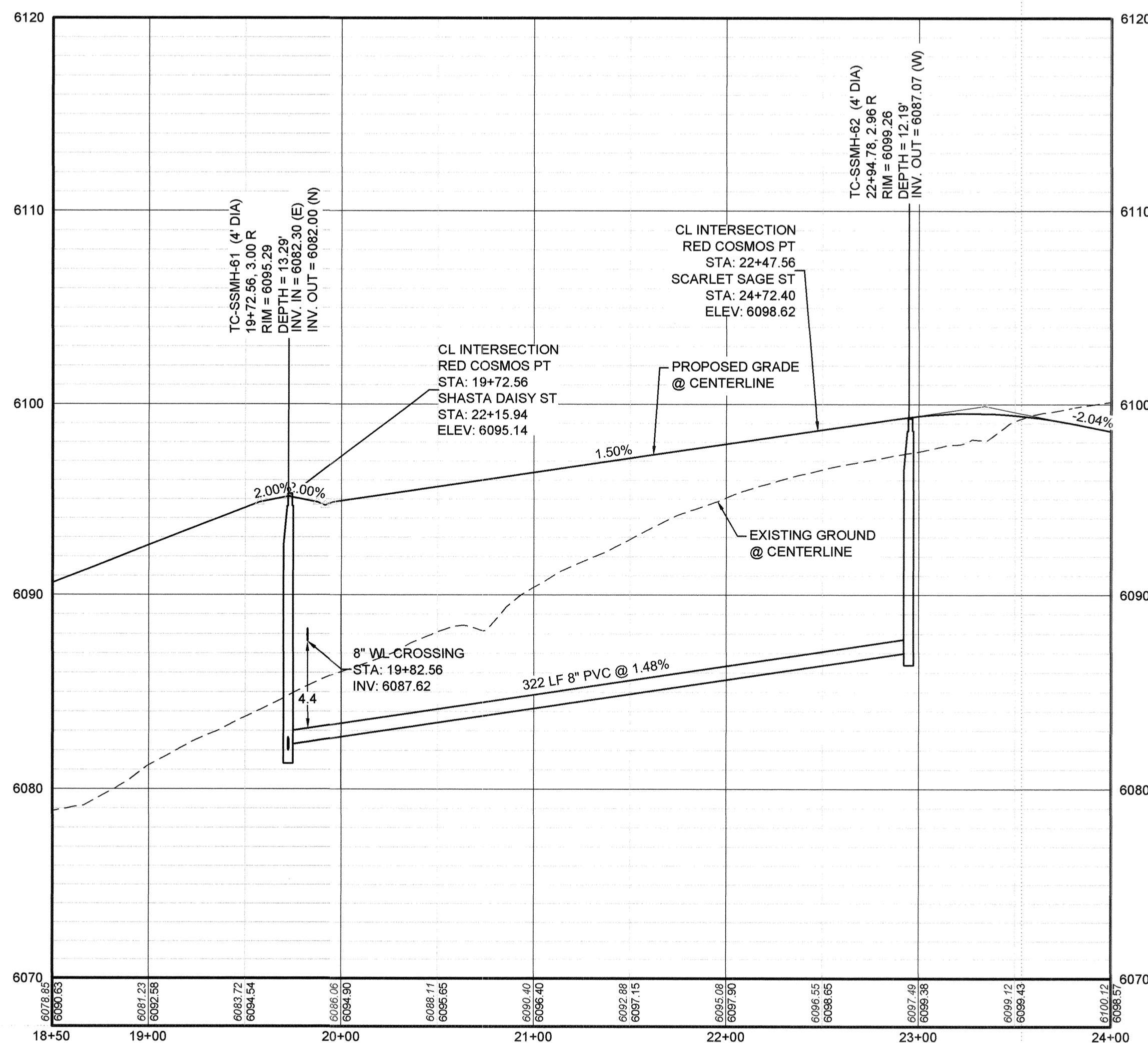
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CVL CONSULTANTS	
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	
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SCALE:	AS SHOWN
DRAWN BY:	KJD
CHECKED BY:	JW
DATE:	AUGUST 2017
SHEET NUMBER	8
FILE NO.:	8130283701



KEYMAP
N.T.S.
LEGEND

PLAN: RED COSMOS POINT STA: 18+50.00 TO 24+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: RED COSMOS POINT STA: 18+50.00 TO 24+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2,B6,L1	RED COSMOS PT	20+44.70
F2,B6,L2	RED COSMOS PT	20+94.70
F2,B6,L3	RED COSMOS PT	21+44.70
F2,B6,L4	RED COSMOS PT	21+94.70
F2,B6,L5	RED COSMOS PT	22+44.70
F2,B6,L6	RED COSMOS PT	22+94.78

LEGEND

- ② BLOCK NUMBER
- Ⓐ LOT TYPE
- 6 LOT NUMBER
- ⊕ 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
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD POWER
- 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
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
FH 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.

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.

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

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1-800-922-1987

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

CVL CONSULTANTS

HR 935 LLC
7353 South Alton Way, CENTENNIAL, CO 80112

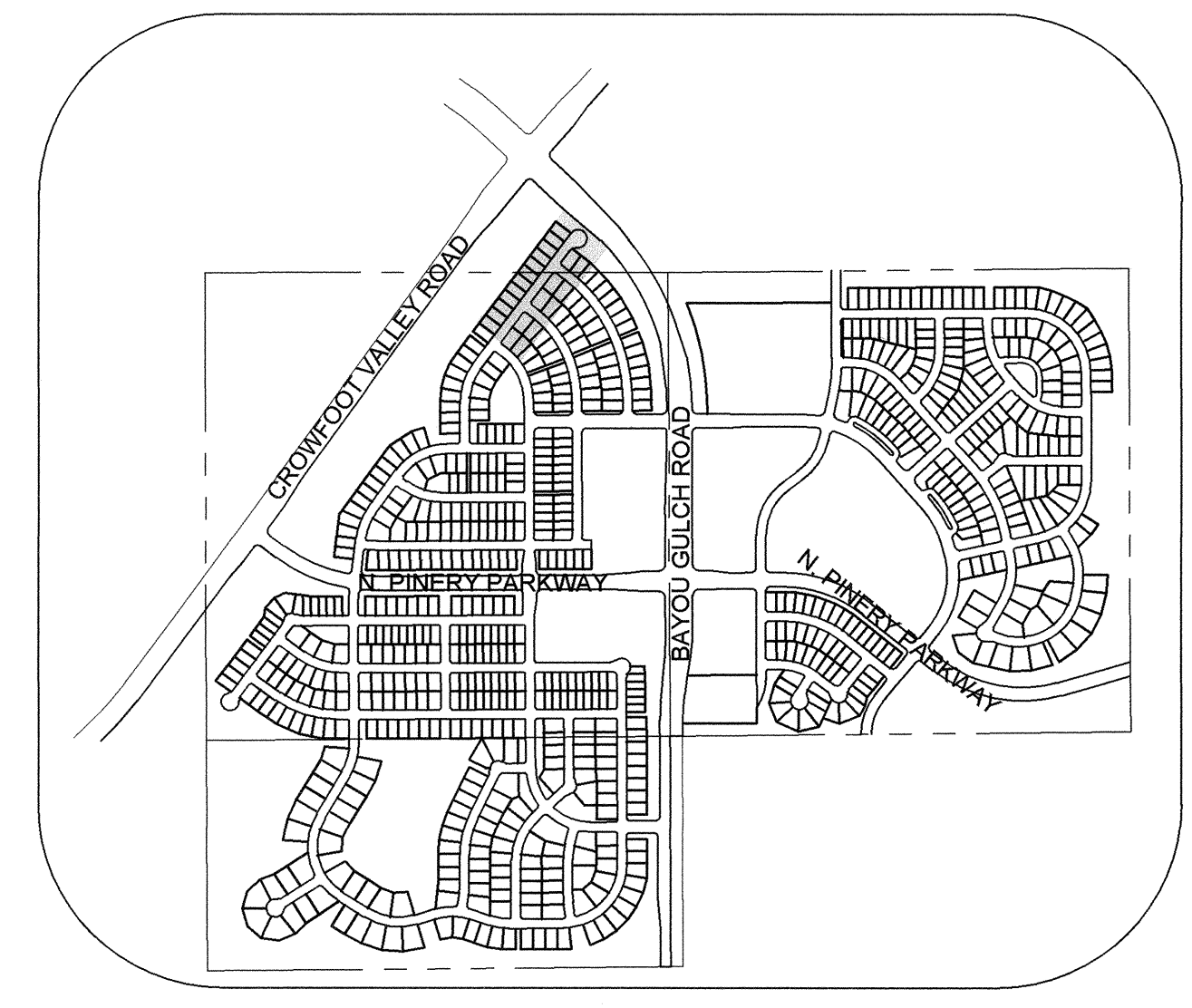
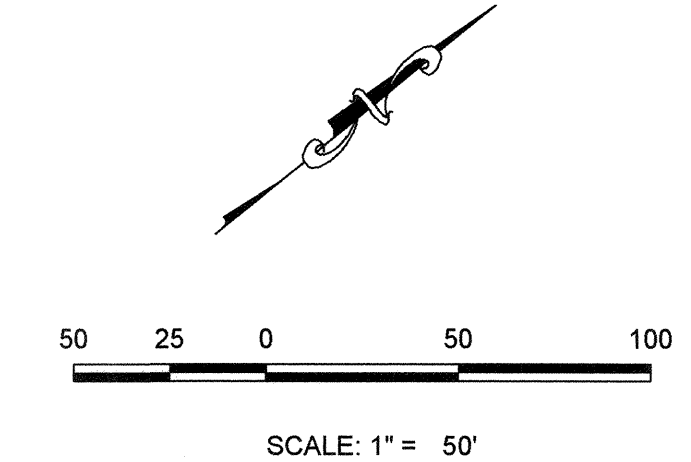
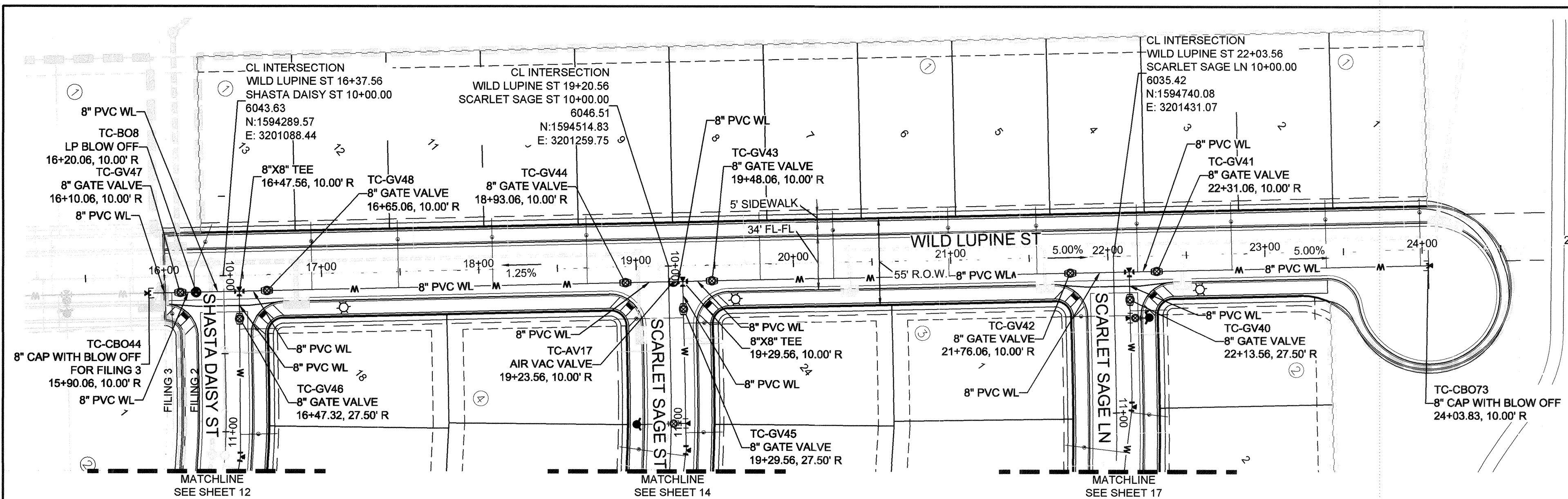
TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
RED COSMOS POINT

SCALE: AS SHOWN
FILE NO: 8130283701

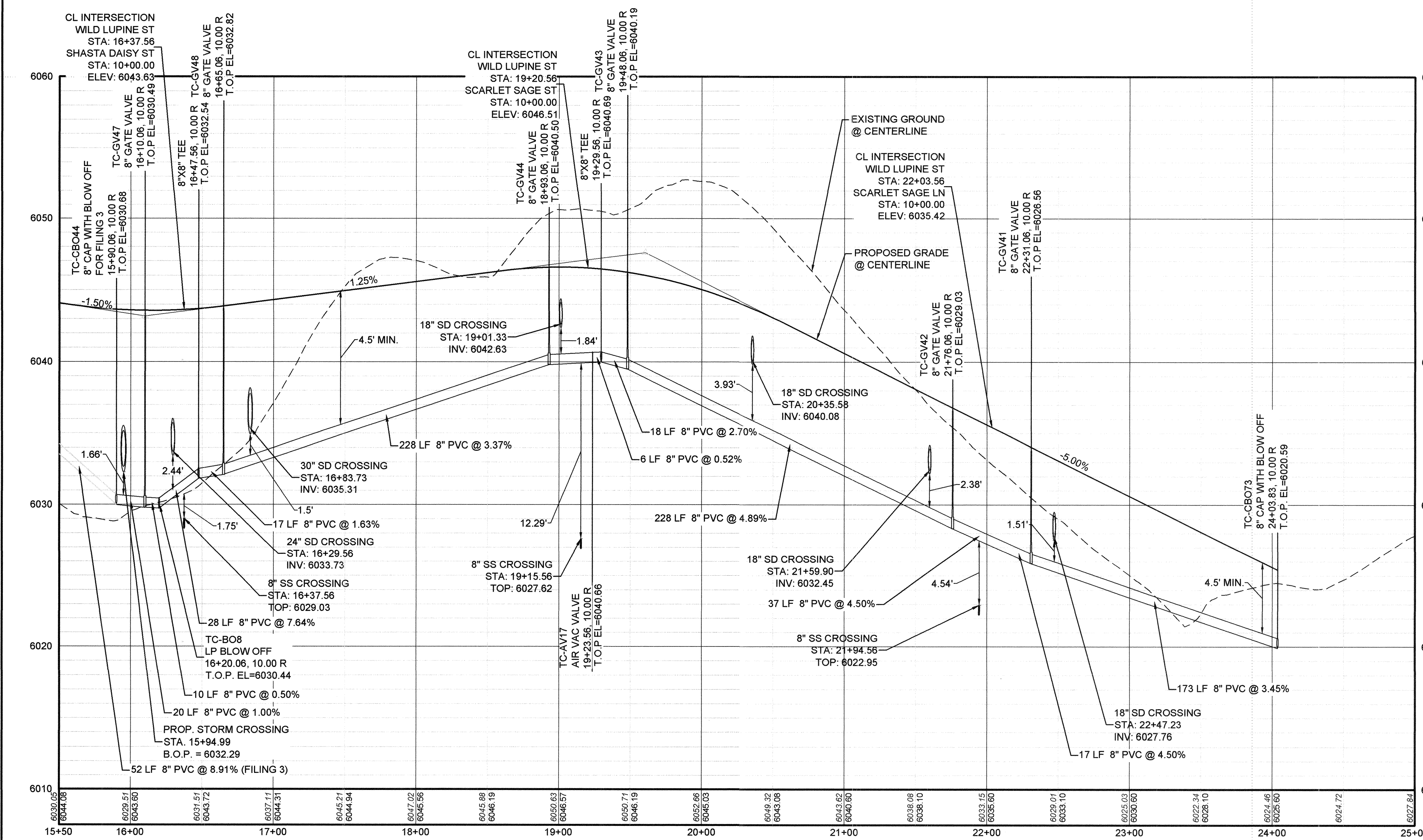
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CHECKED BY: JJJ
DATE: AUGUST 2017

SHEET NUMBER: 10

Revisions: No. Date Init. Date Appr.



PLAN: WILD LUPINE ST STA: 15+50.00 TO 25+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: WILD LUPINE ST STA: 15+50.00 TO 25+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2,B1,L4	WILD LUPINE ST	22+18.83
F2,B1,L5	WILD LUPINE ST	21+54.83
F2,B1,L6	WILD LUPINE ST	20+98.83
F2,B1,L7	WILD LUPINE ST	20+25.58
F2,B1,L8	WILD LUPINE ST	19+78.83
F2,B1,L9	WILD LUPINE ST	18+68.83
F2,B1,L10	WILD LUPINE ST	18+08.83
F2,B1,L11	WILD LUPINE ST	17+48.83
F2,B1,L12	WILD LUPINE ST	16+93.73
F2,B1,L13	WILD LUPINE ST	16+18.99
F2,B2,L1	SCARLET SAGE LN	10+34.50
F2,B2,L2	SCARLET SAGE LN	10+99.86
F2,B2,L3	SCARLET SAGE LN	11+57.50

LEGEND

- ⊙ BLOCK NUMBER
- Ⓐ LOT TYPE
- 6 LOT NUMBER
- ⊕ 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
- ⊕ PROPOSED SIDEWALK RAMP
- ⊕ 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
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 5' CONTOUR
- 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
- EXISTING FIBER
- OPTIC LINE
- EXISTING OVERHEAD POWER
- 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
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
FH	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
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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7353 South Alton Way
CENTENNIAL, CO 80112

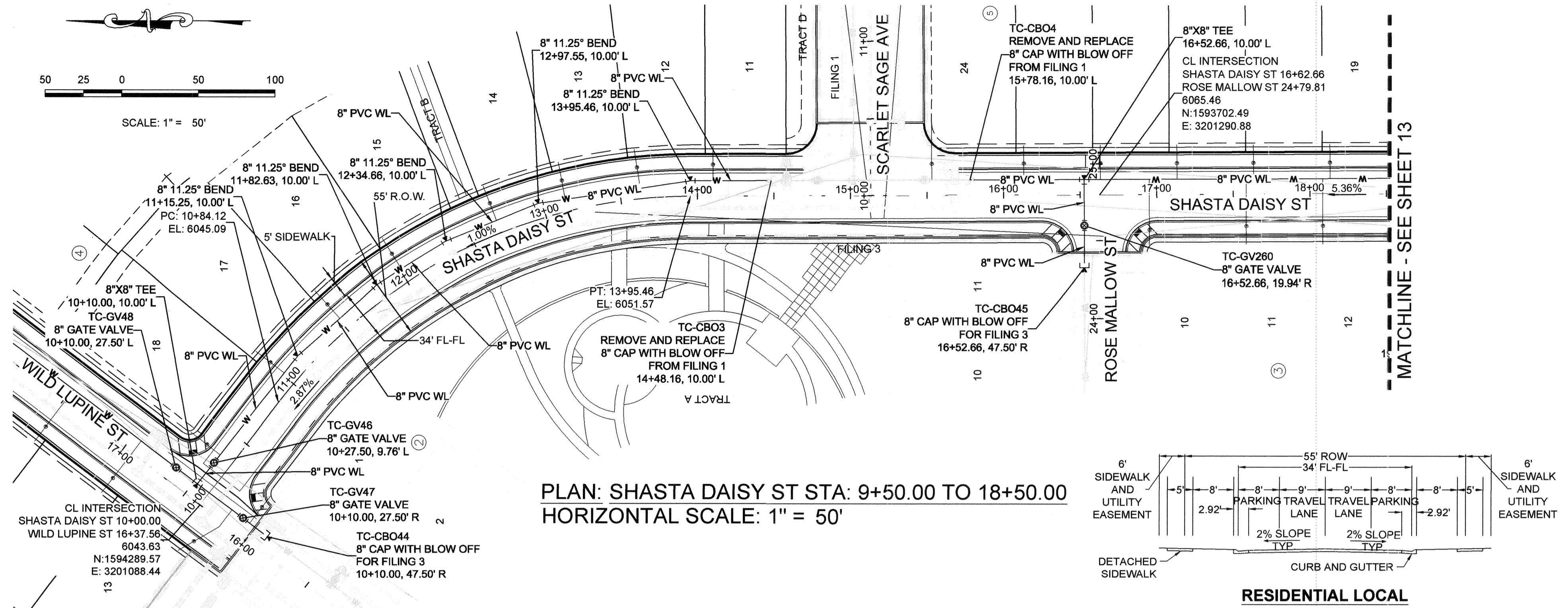
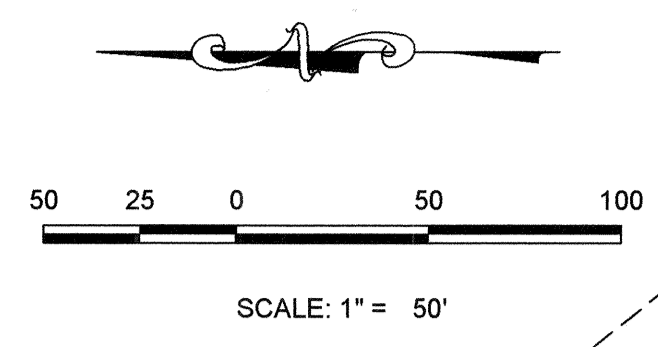
TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
WILD LUPINE STREET

SCALE: AS SHOWN
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: AUGUST 2017

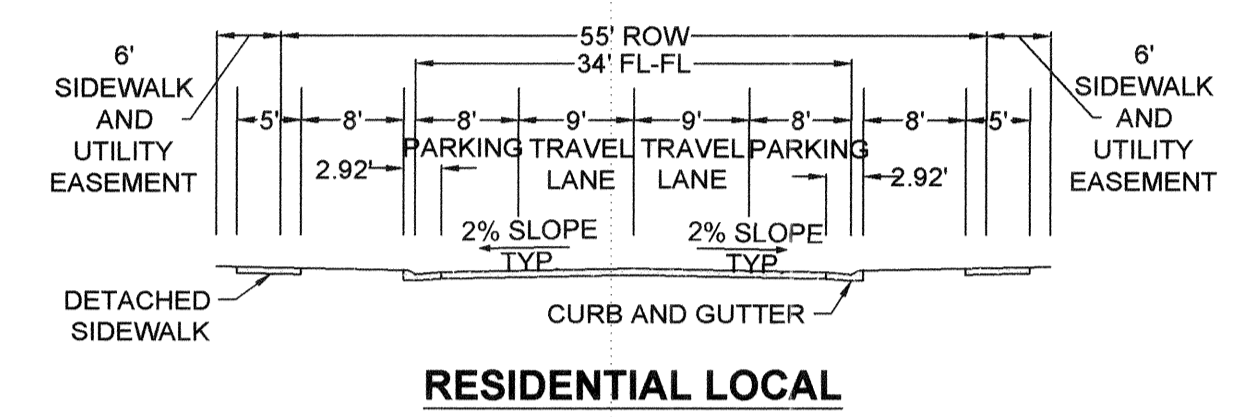
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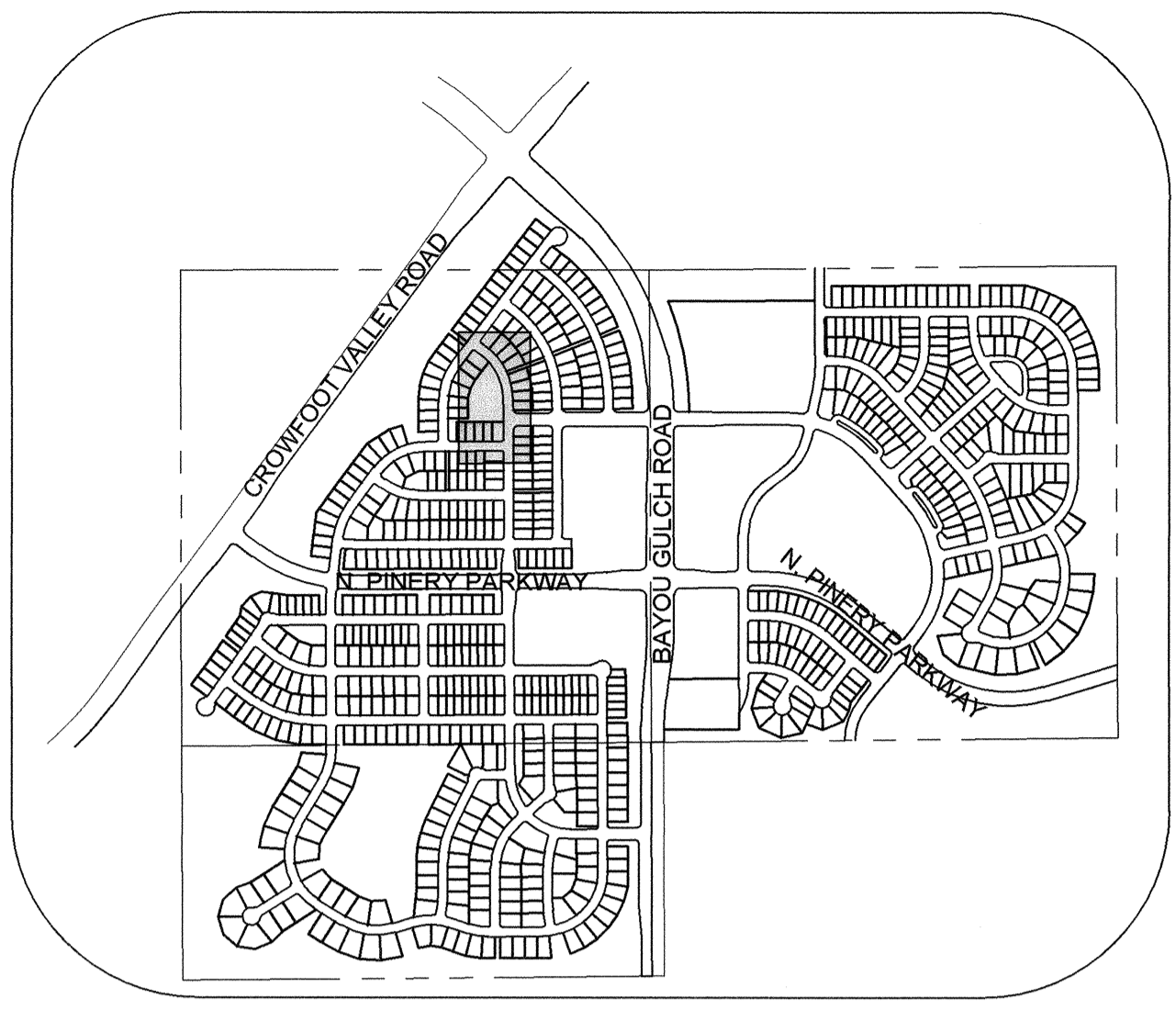
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PLAN: SHASTA DAISY ST STA: 9+50.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'

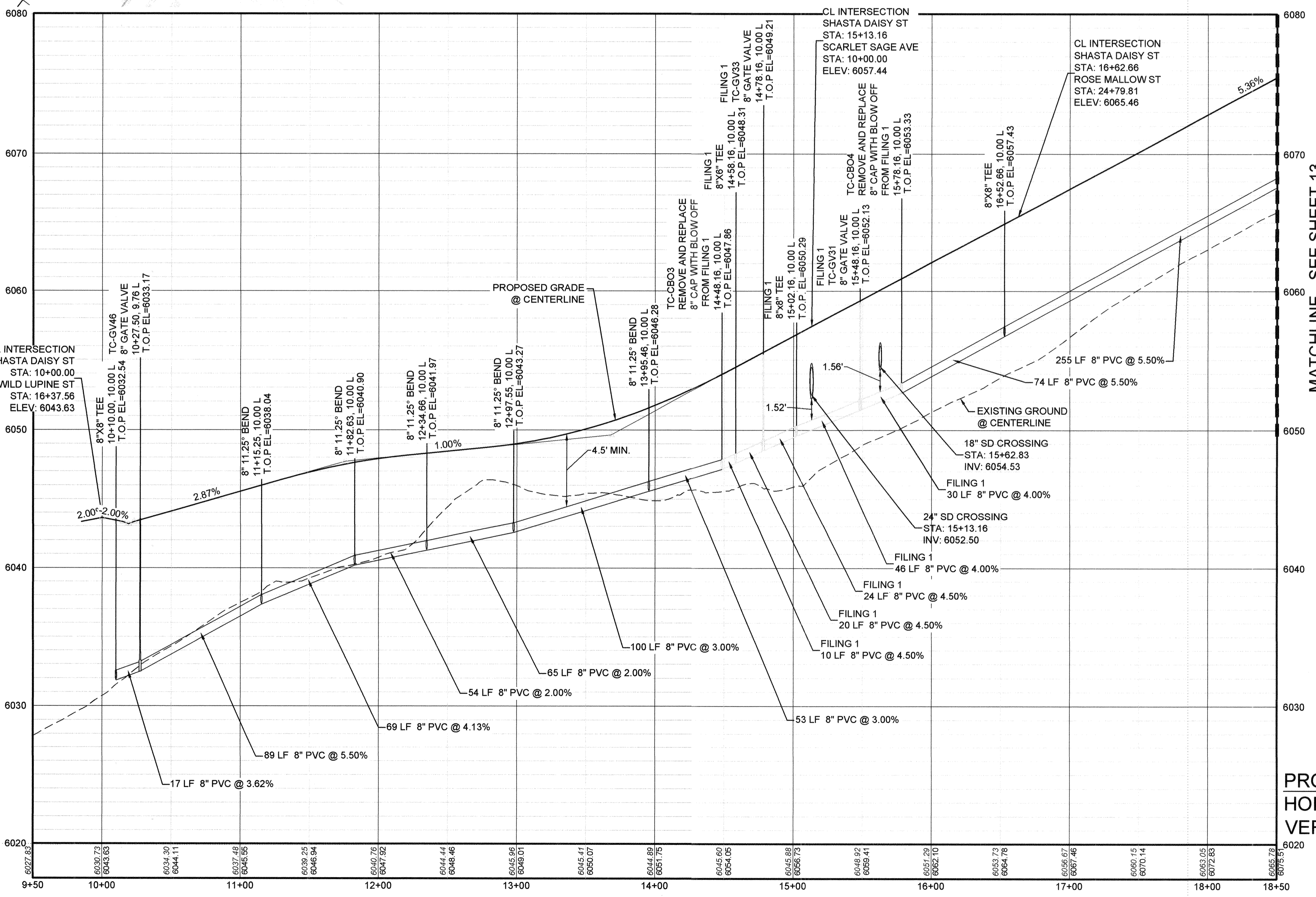


FILING, BLOCK, LOT	STREET	STATIONING
F2,B4,L11	SHASTA DAISY ST	14+10.25
F2,B4,L12	SHASTA DAISY ST	13+63.19
F2,B4,L13	SHASTA DAISY ST	13+14.74
F2,B4,L14	SHASTA DAISY ST	12+68.84
F2,B4,L15	SHASTA DAISY ST	12+00.83
F2,B4,L16	SHASTA DAISY ST	11+51.19
F2,B4,L17	SHASTA DAISY ST	11+01.52
F2,B4,L18	SHASTA DAISY ST	10+34.20
F2,B5,L19	SHASTA DAISY ST	18+13.30
F2,B5,L20	SHASTA DAISY ST	17+63.30
F2,B5,L21	SHASTA DAISY ST	17+13.30
F2,B5,L22	SHASTA DAISY ST	16+63.30
F2,B5,L23	SHASTA DAISY ST	16+13.30
F2,B5,L24	SHASTA DAISY ST	15+53.16
F3,B3,L10	SHASTA DAISY ST	16+95.16
F3,B3,L11	SHASTA DAISY ST	17+58.44
F3,B3,L12	SHASTA DAISY ST	18+08.44

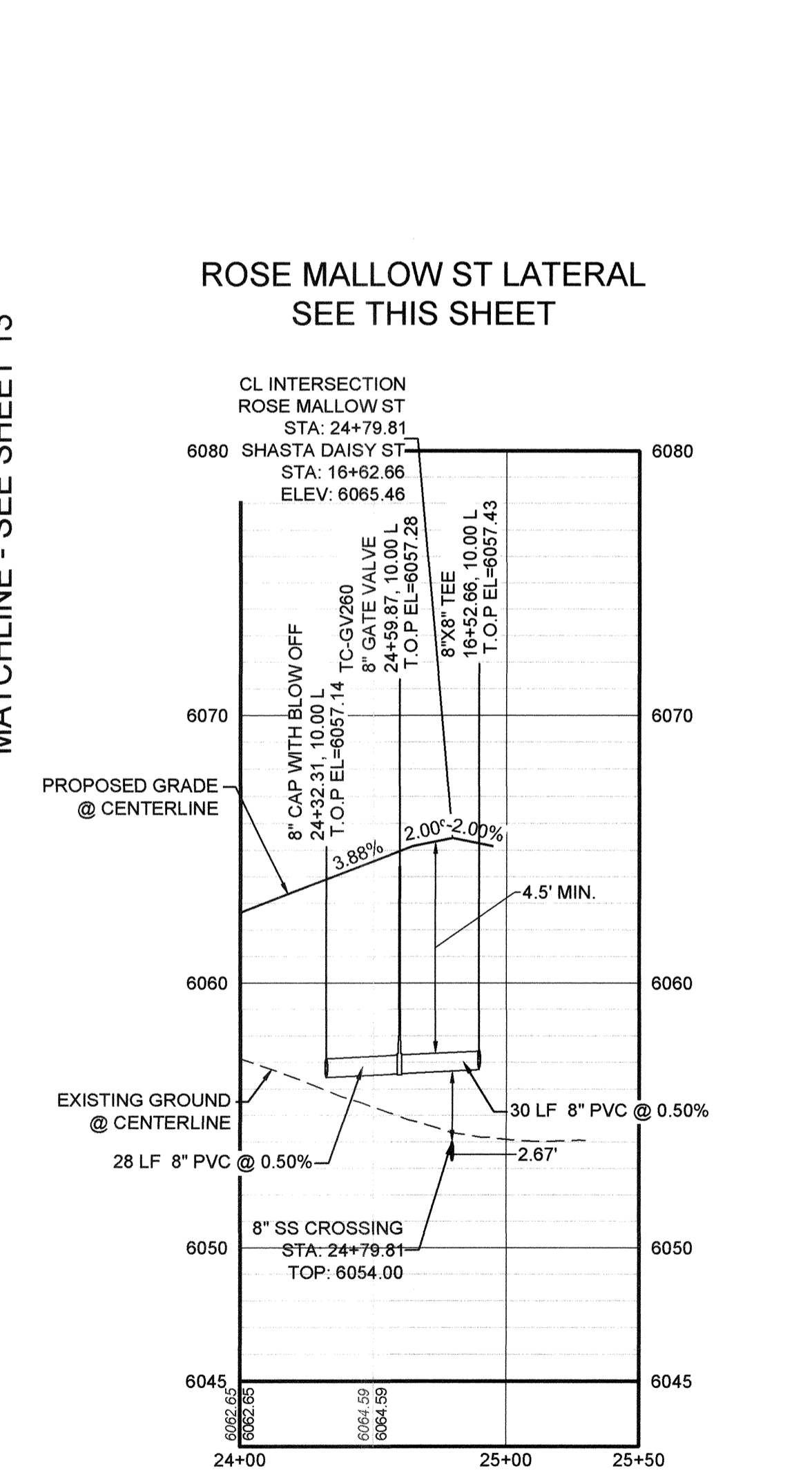


KEYMAP
 N.T.S.
LEGEND

⊙	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	---	PROPOSED LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
⊕	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE



PROFILE: SHASTA DAISY ST STA: 9+50.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW ST LATERAL STA: 24+00.00 TO 25+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

ROSE MALLOW ST LATERAL
 SEE THIS SHEET

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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CBO	CAP WITH BLOW OFF	PVI	POINT OF VERTICAL TANGENT
CR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
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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

PROJECT SHESS BANCHANG ENGINEERING SHEET SETS (S) S/PARKER WATER AND SANITATION WATER PLAN AND PROFILE (P) SHASTA DAISY STREET WATER DIV. HAYDEN, 2/27/2019 9:58 PM

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BENCHMARK
 DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.06032, 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.

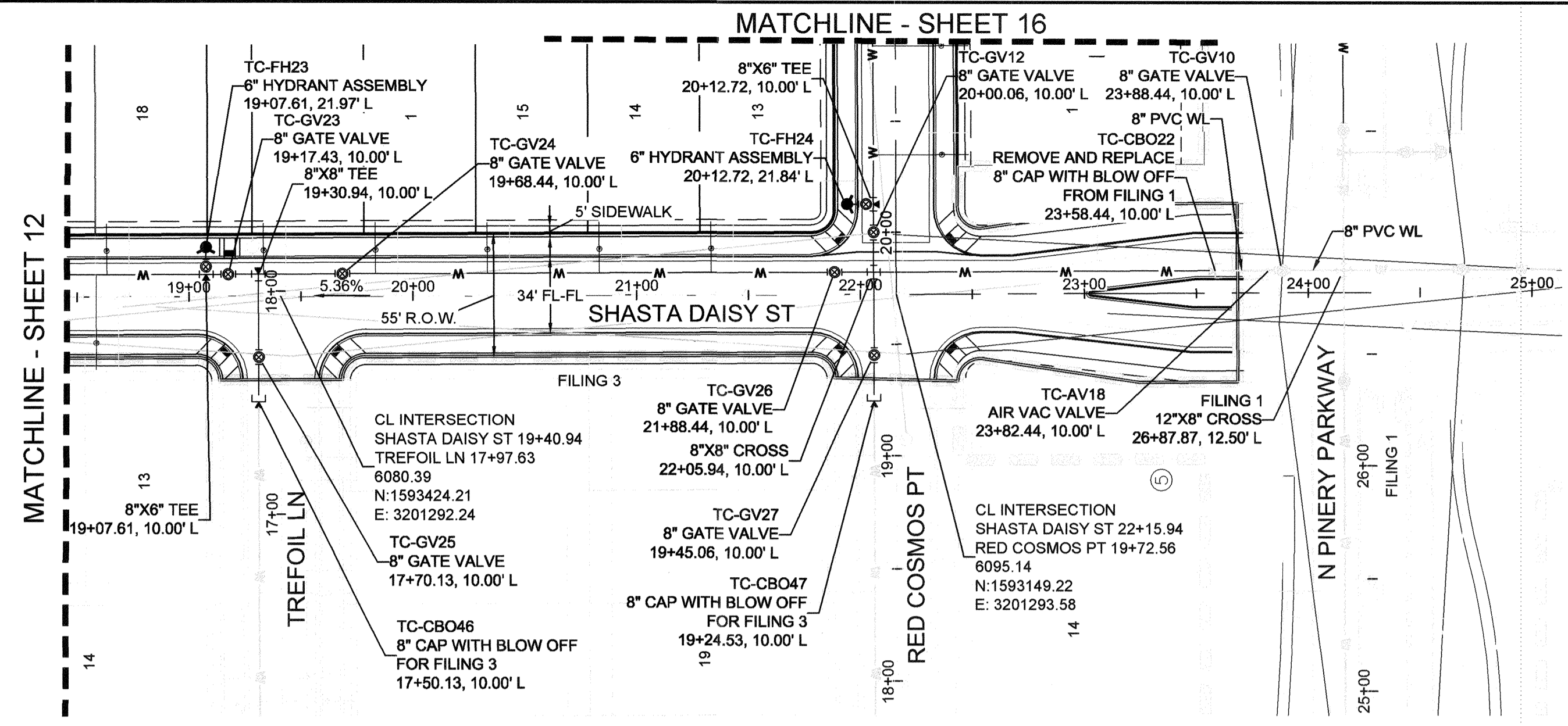
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PREPARED UNDER THE SUPERVISION OF

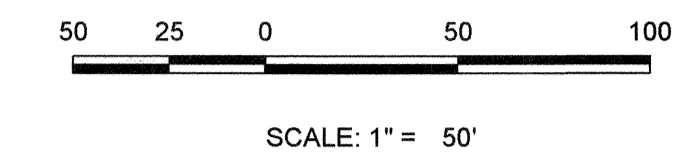
BRIAN P. WILSON
 COLORADO P.E. 0050067

APPROVED
 APR 02 2019
 PARKER WATER AND SANITATION DISTRICT

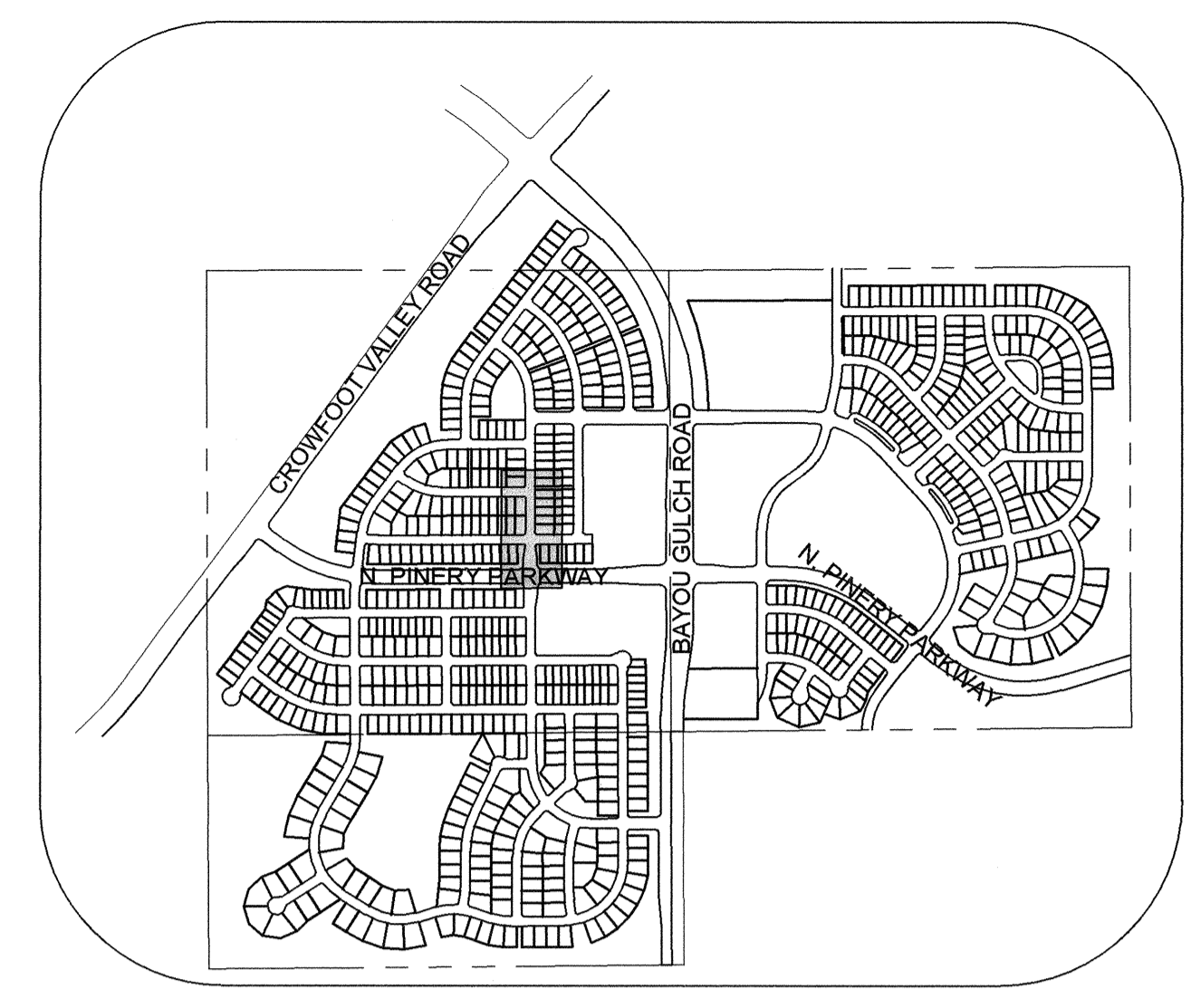
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CHECKED BY:	JW
DATE:	AUGUST 2017
SHEET NUMBER:	12
PROJECT:	TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE SHASTA DAISY STREET
CONTRACTOR:	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112
CONSULTANT:	CVL CONSULTANTS 10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546
Revisions:	
Date:	
Appr.:	



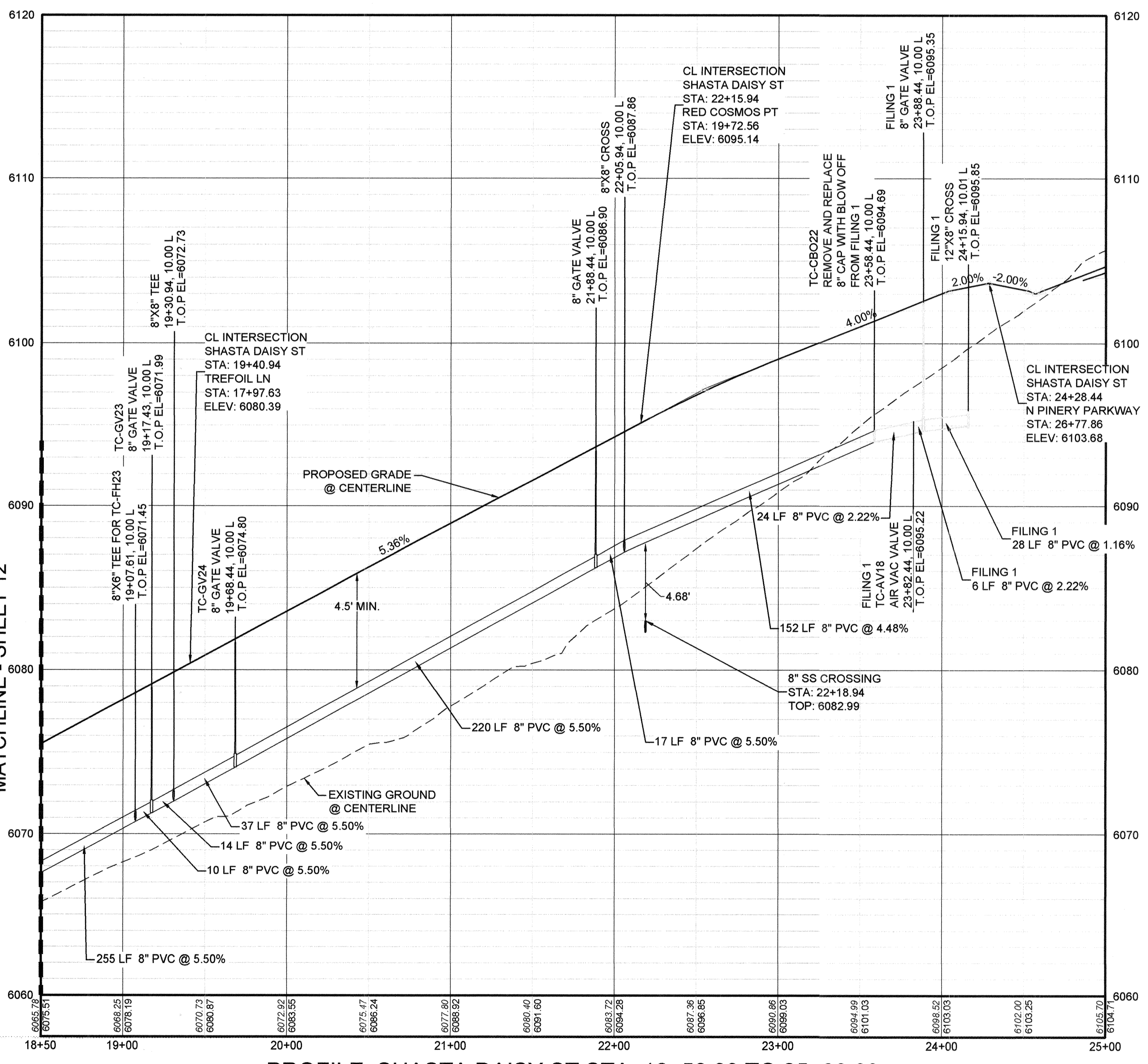
PLAN: SHASTA DAISY ST STA: 18+50.00 TO 25+00.00
HORIZONTAL SCALE: 1" = 50'



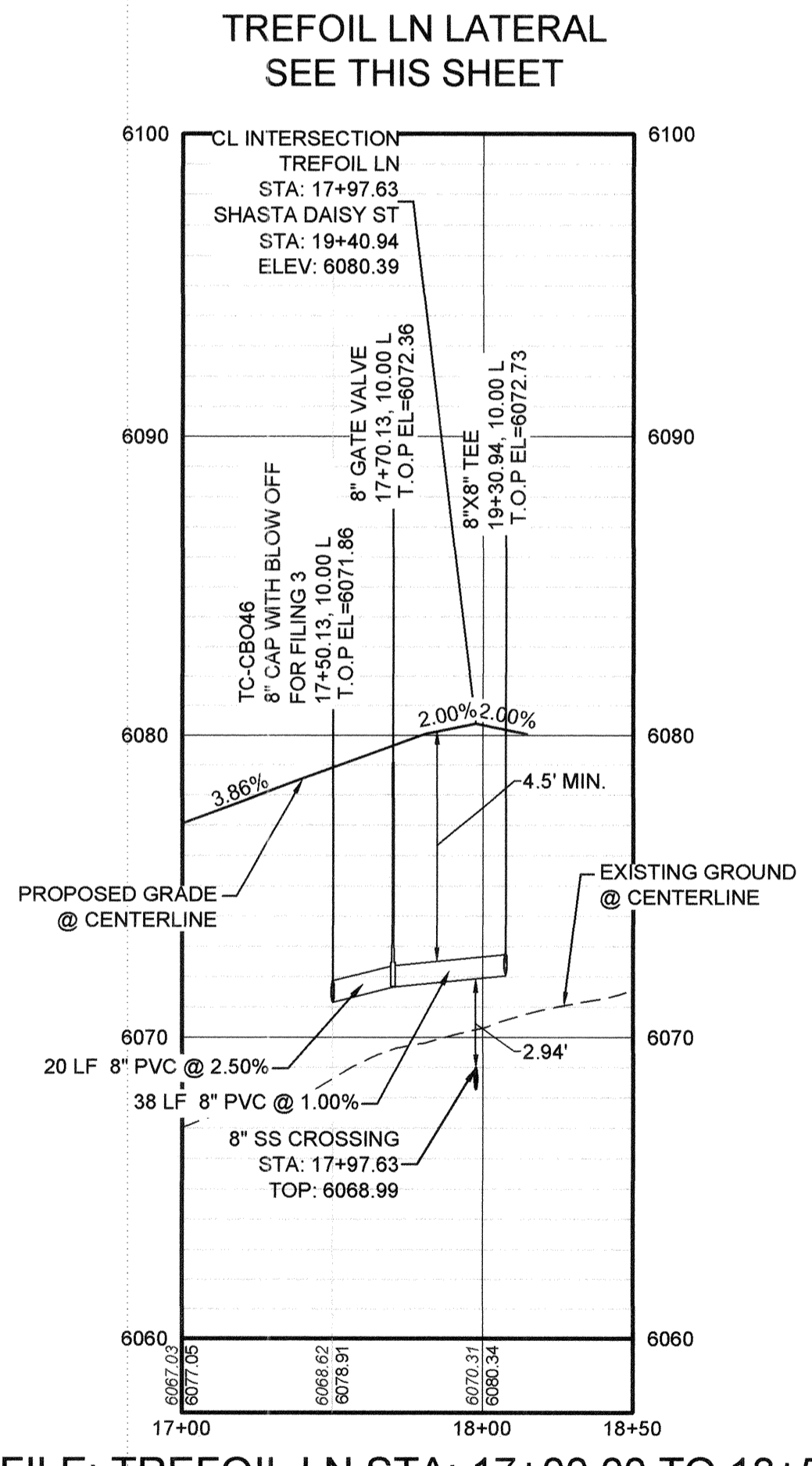
WATER SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B5,L13	SHASTA DAISY ST	21+33.30
F2,B5,L14	SHASTA DAISY ST	20+83.30
F2,B5,L15	SHASTA DAISY ST	20+33.30
F2,B5,L16	SHASTA DAISY ST	19+83.30
F2,B5,L17	SHASTA DAISY ST	19+33.30
F2,B5,L18	SHASTA DAISY ST	18+63.30
F3,B3,L13	SHASTA DAISY ST	18+58.44



KEYMAP
N.T.S.



PROFILE: SHASTA DAISY ST STA: 18+50.00 TO 25+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: TREFOIL LN STA: 17+00.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

⊙	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	---	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

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Tel: (720) 462-9526, Fax: (720) 462-9546

CVL CONSULTANTS

HR 935 LLC
7353 South Alton Way, CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SHASTA DAISY STREET

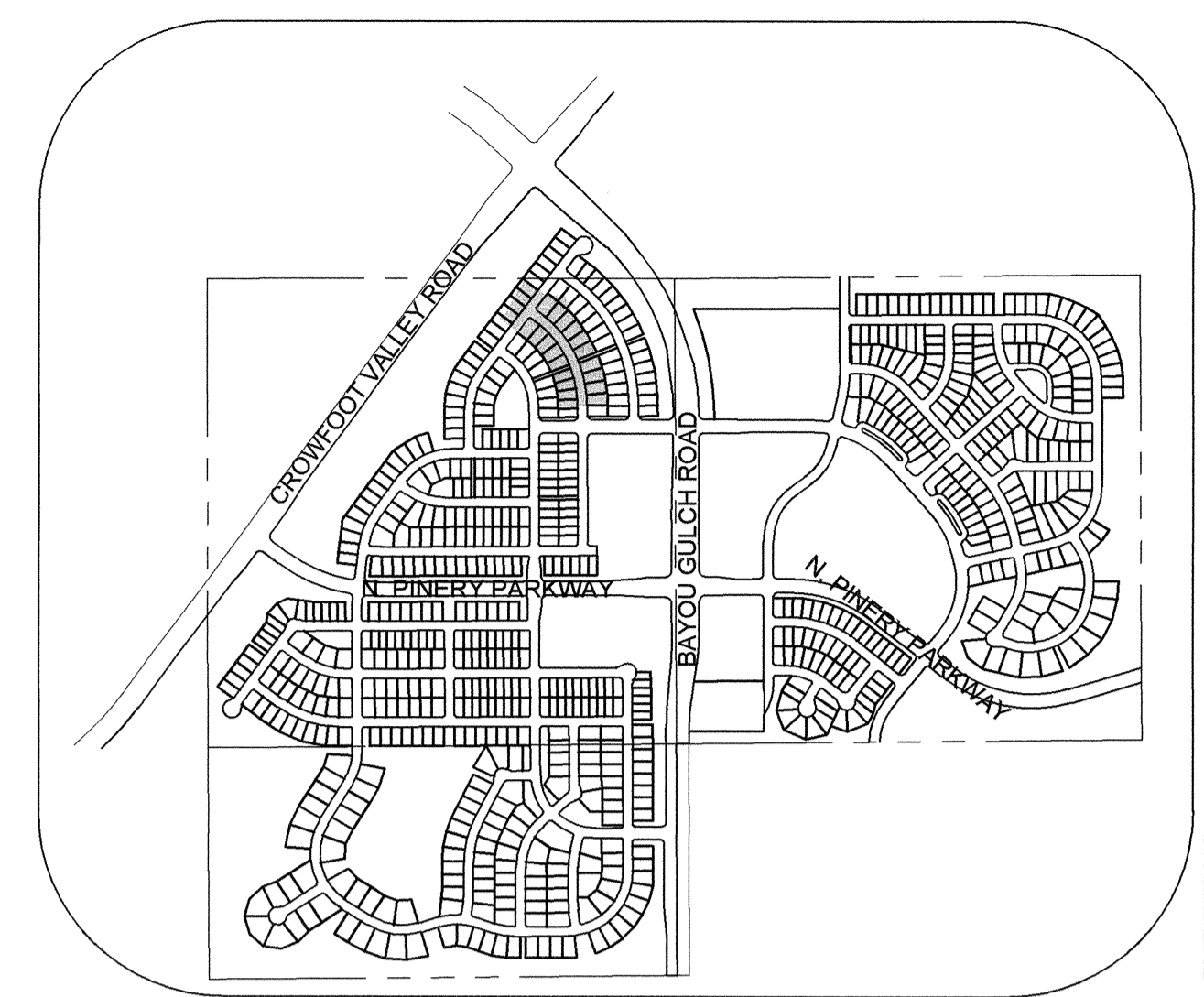
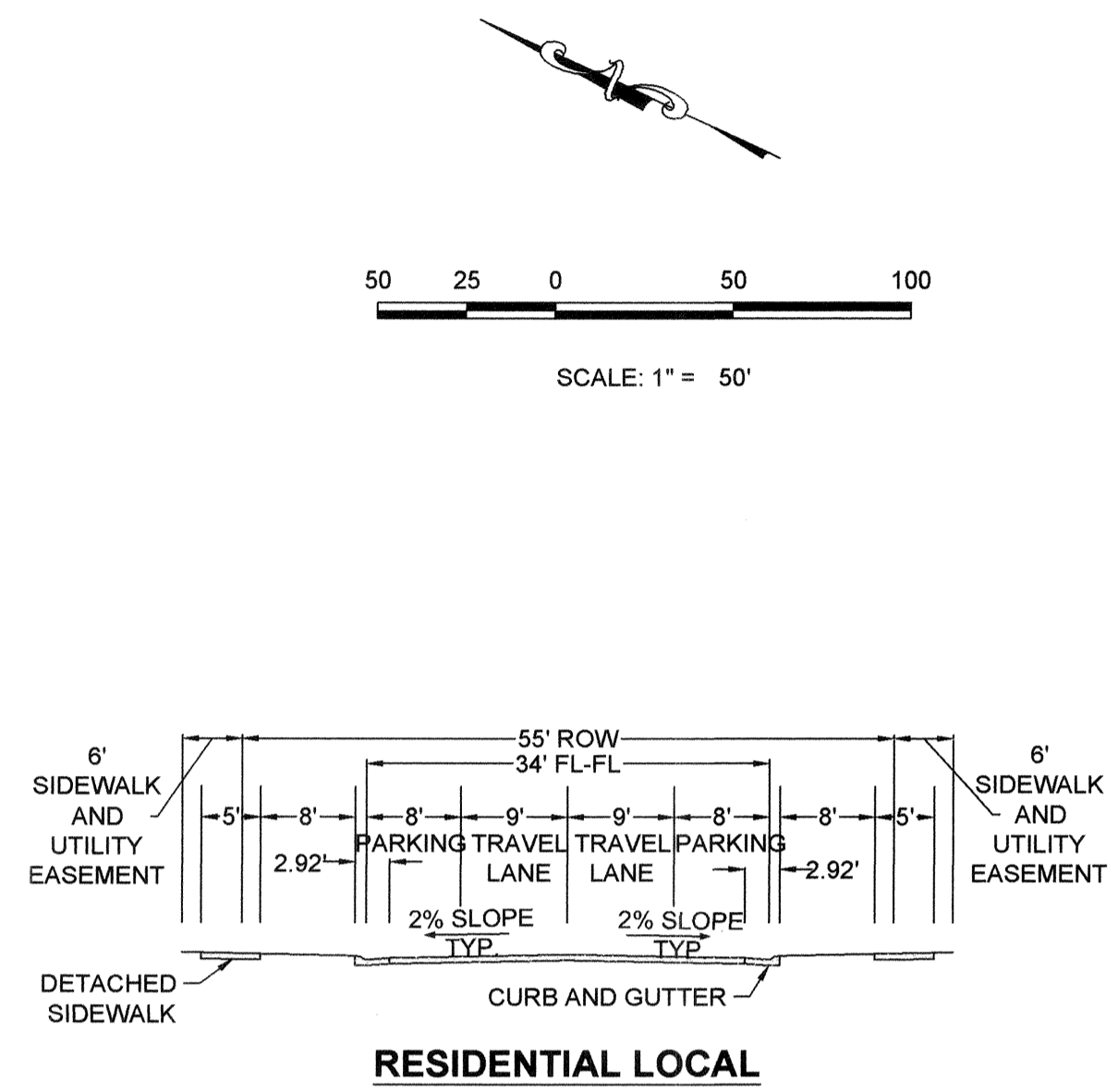
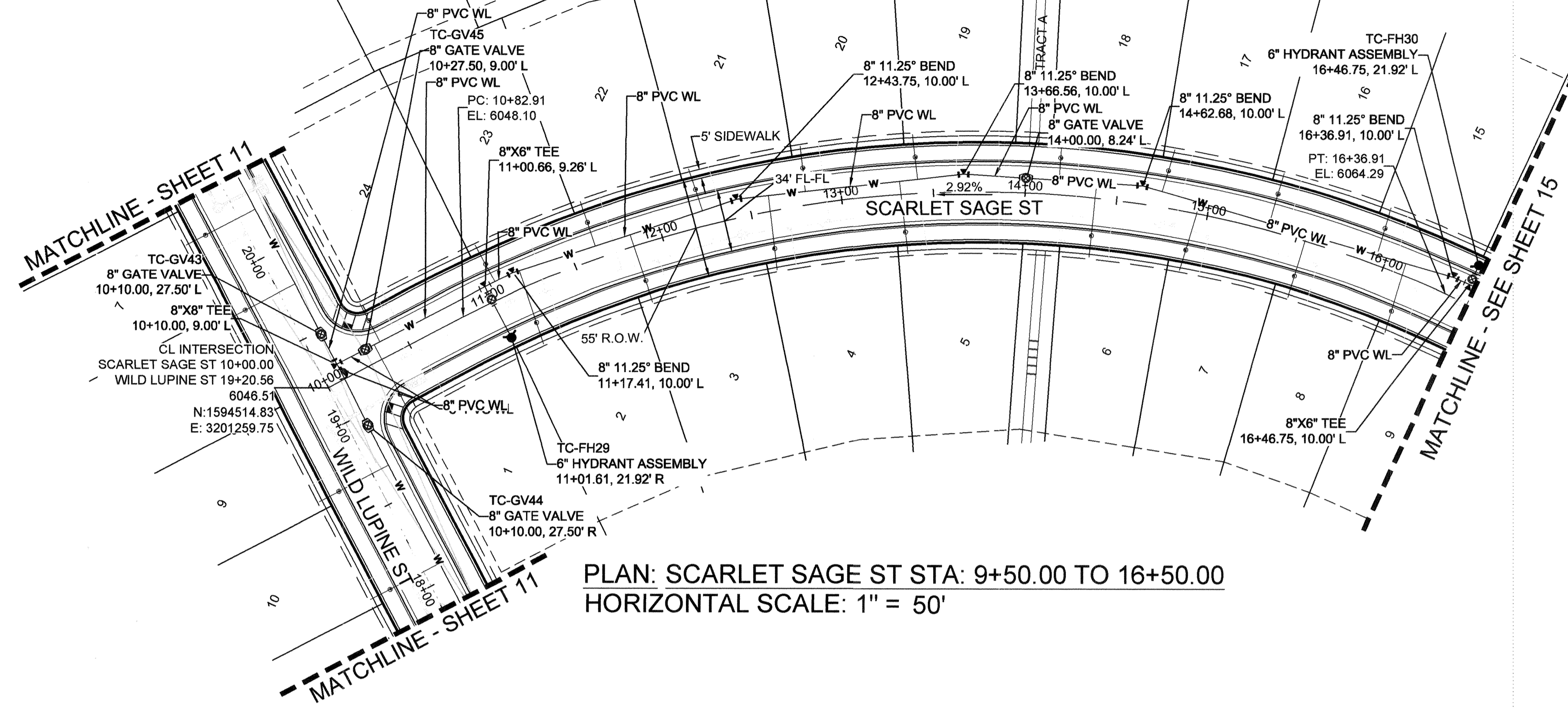
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CHECKED BY: JJJ
DATE: AUGUST 2017

FILE NO: 8130283701

SHEET NUMBER: 13

Revisions: No. Date Init. Appr. Date

N:\PROJECTS\HSHS RANCH\ACADEMIC\ENGINEERING\SET\SCARLET\SCARLET WATER PLAN AND PROFILE\SCARLET SAGE STREET WATER DWG, HAYDEN, 2/27/2018 9:34 PM



LEGEND

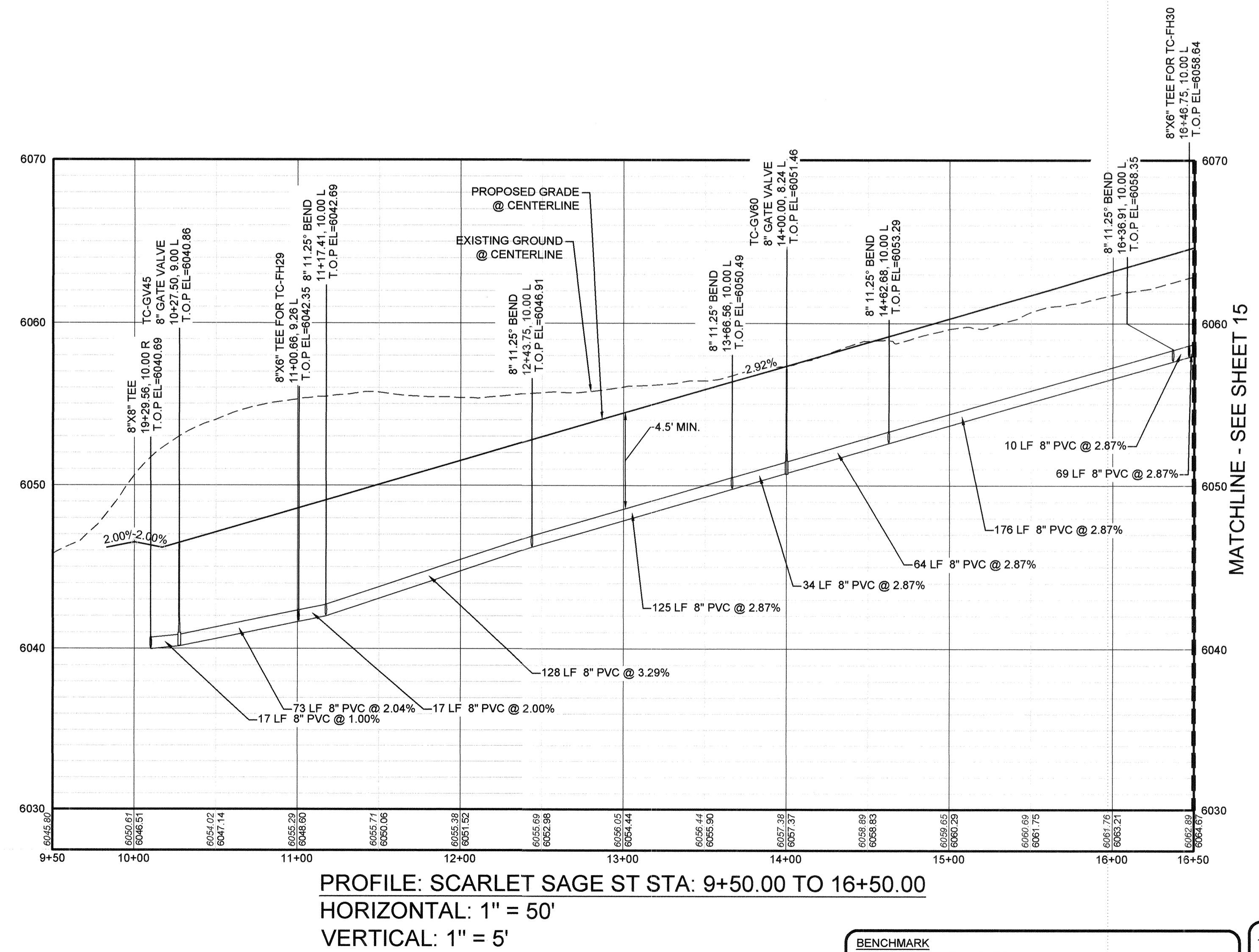
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Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊕	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
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⊕	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
⊕	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 SIDEWALK	---	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	---	OPTIC LINE
		---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE

WATER SERVICE TABLE

FILING, BLOCK, LOT	STREET	STATIONING
F2,B3,L15	SCARLET SAGE ST	15+94.24
F2,B3,L16	SCARLET SAGE ST	15+33.63
F2,B3,L17	SCARLET SAGE ST	14+73.64
F2,B3,L18	SCARLET SAGE ST	14+17.96
F2,B3,L19	SCARLET SAGE ST	13+41.83
F2,B3,L20	SCARLET SAGE ST	12+81.03
F2,B3,L21	SCARLET SAGE ST	12+24.80
F2,B3,L22	SCARLET SAGE ST	11+63.97
F2,B3,L23	SCARLET SAGE ST	11+06.68
F2,B4,L1	SCARLET SAGE ST	10+33.00
F2,B4,L2	SCARLET SAGE ST	11+21.12
F2,B4,L3	SCARLET SAGE ST	11+83.74
F2,B4,L4	SCARLET SAGE ST	12+61.09
F2,B4,L5	SCARLET SAGE ST	13+31.98
F2,B4,L6	SCARLET SAGE ST	14+38.25
F2,B4,L7	SCARLET SAGE ST	14+94.21
F2,B4,L8	SCARLET SAGE ST	15+54.94
F2,B4,L9	SCARLET SAGE ST	16+10.58

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	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RBCB	REINFORCED CONCRETE BOX CULVERT
E	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
FH	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 86 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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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.

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

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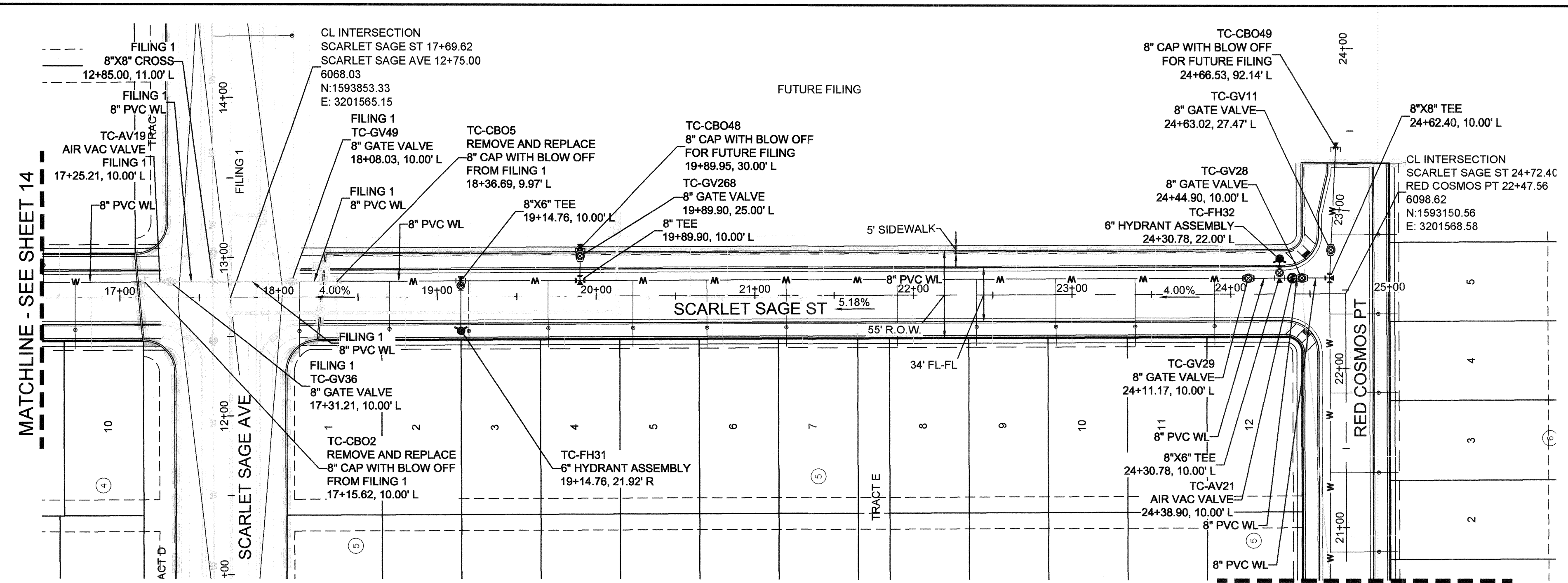
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DRAWN BY:	RHR
CHECKED BY:	JW
DATE:	AUGUST 2017
SCALE:	AS SHOWN
FILE NO.:	81-30283701
DATE:	AUGUST 2017
APPR.:	
DATE:	
REVISIONS:	
NO.:	

10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 462-9526
Fax: (720) 462-9546

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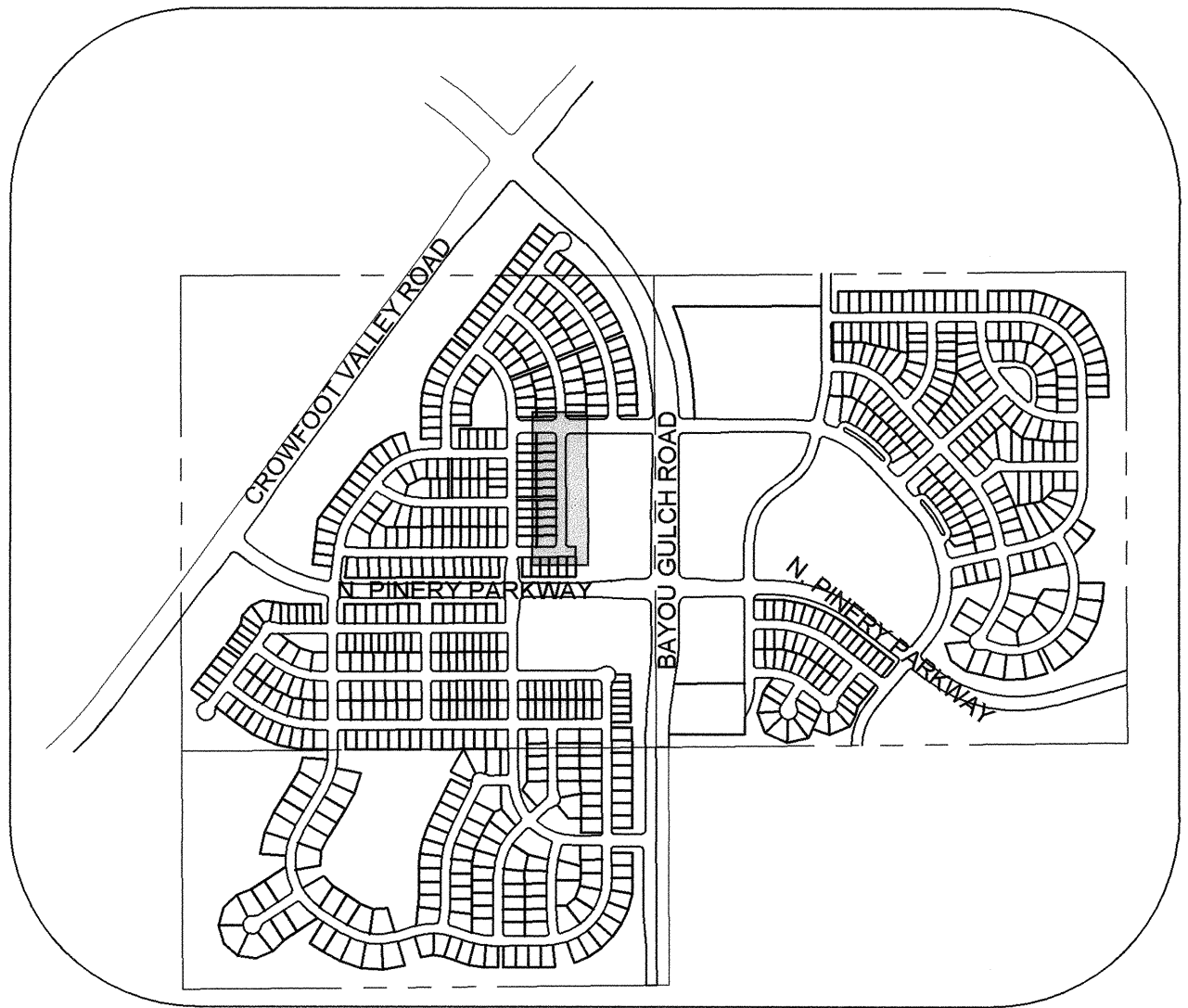
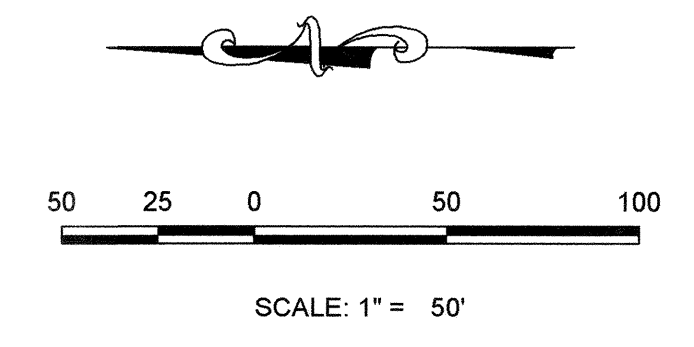
HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SCARLET SAGE STREET



PLAN: SCARLET SAGE ST STA: 16+50.00 TO 25+50.00
HORIZONTAL SCALE: 1" = 50'

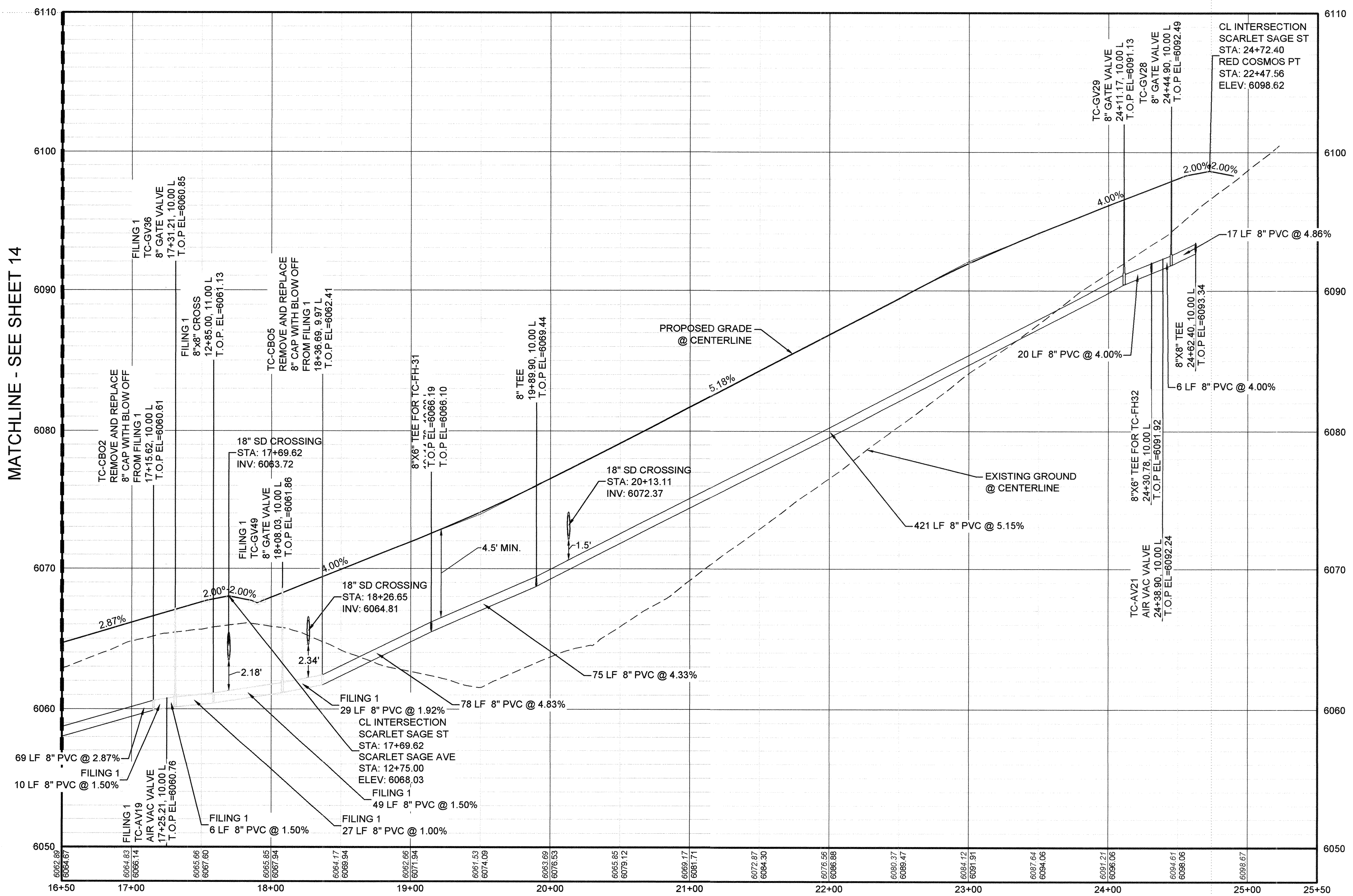
MATCHLINE - SEE SHEET 16



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	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
⊕	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE

FILING, BLOCK, LOT	STREET	STATIONING
F2,B4,L10	SCARLET SAGE ST	16+71.75
F2,B5,L1	SCARLET SAGE ST	18+13.03
F2,B5,L2	SCARLET SAGE ST	18+69.76
F2,B5,L3	SCARLET SAGE ST	19+19.76
F2,B5,L4	SCARLET SAGE ST	19+69.76
F2,B5,L5	SCARLET SAGE ST	20+23.15
F2,B5,L6	SCARLET SAGE ST	20+69.76
F2,B5,L7	SCARLET SAGE ST	21+19.76
F2,B5,L8	SCARLET SAGE ST	21+89.76
F2,B5,L9	SCARLET SAGE ST	22+39.75
F2,B5,L10	SCARLET SAGE ST	22+89.76
F2,B5,L11	SCARLET SAGE ST	23+39.76
F2,B5,L12	SCARLET SAGE ST	23+89.76



PROFILE: SCARLET SAGE ST STA: 16+50.00 TO 25+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
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HR 935 LLC
7353 South Alton Way, CENTENNIAL, CO 80112

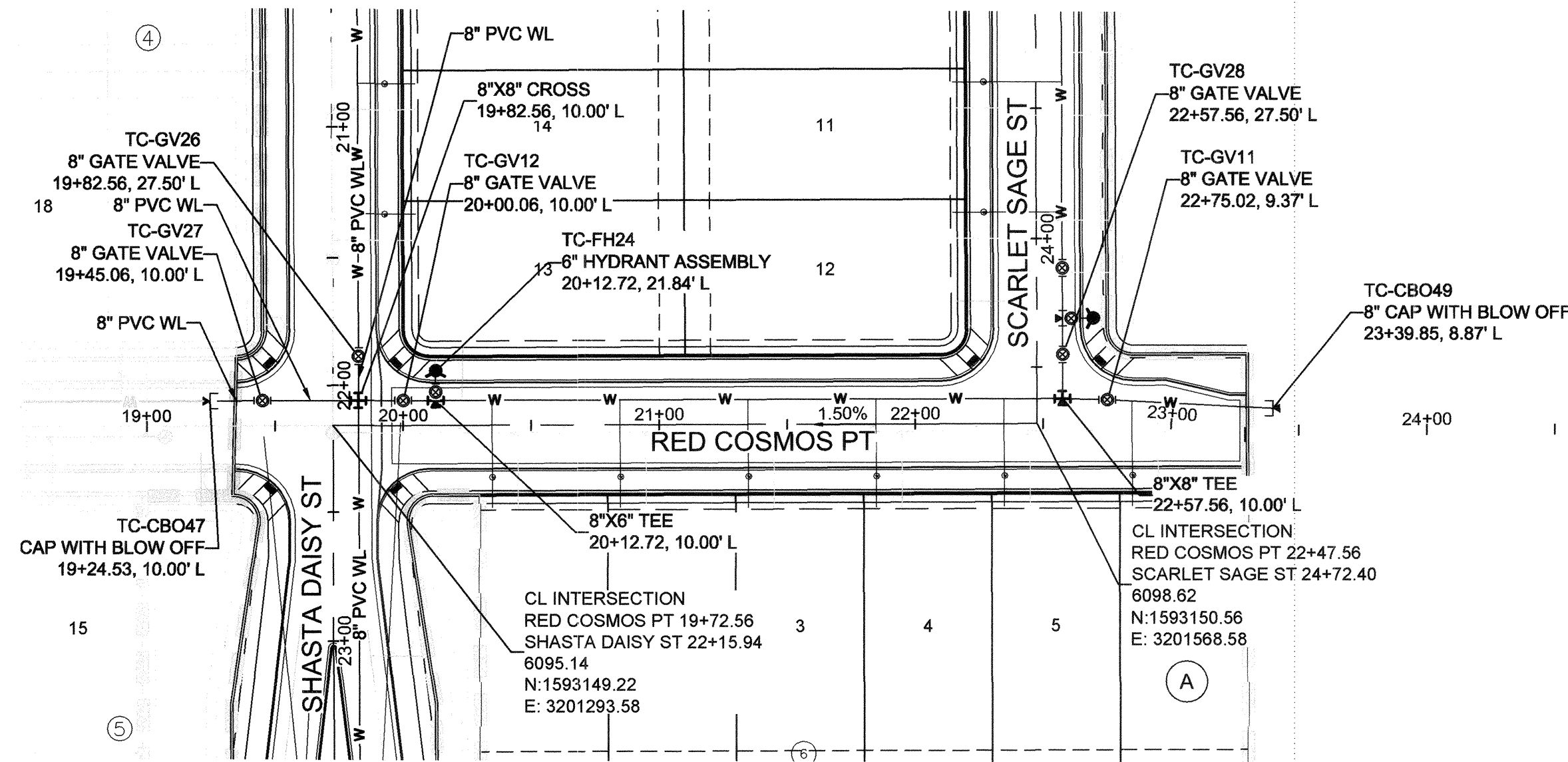
TRAILS AT CROWFOOT
FILING 2 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SCARLET SAGE STREET

SCALE: AS SHOWN
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: AUGUST 2017

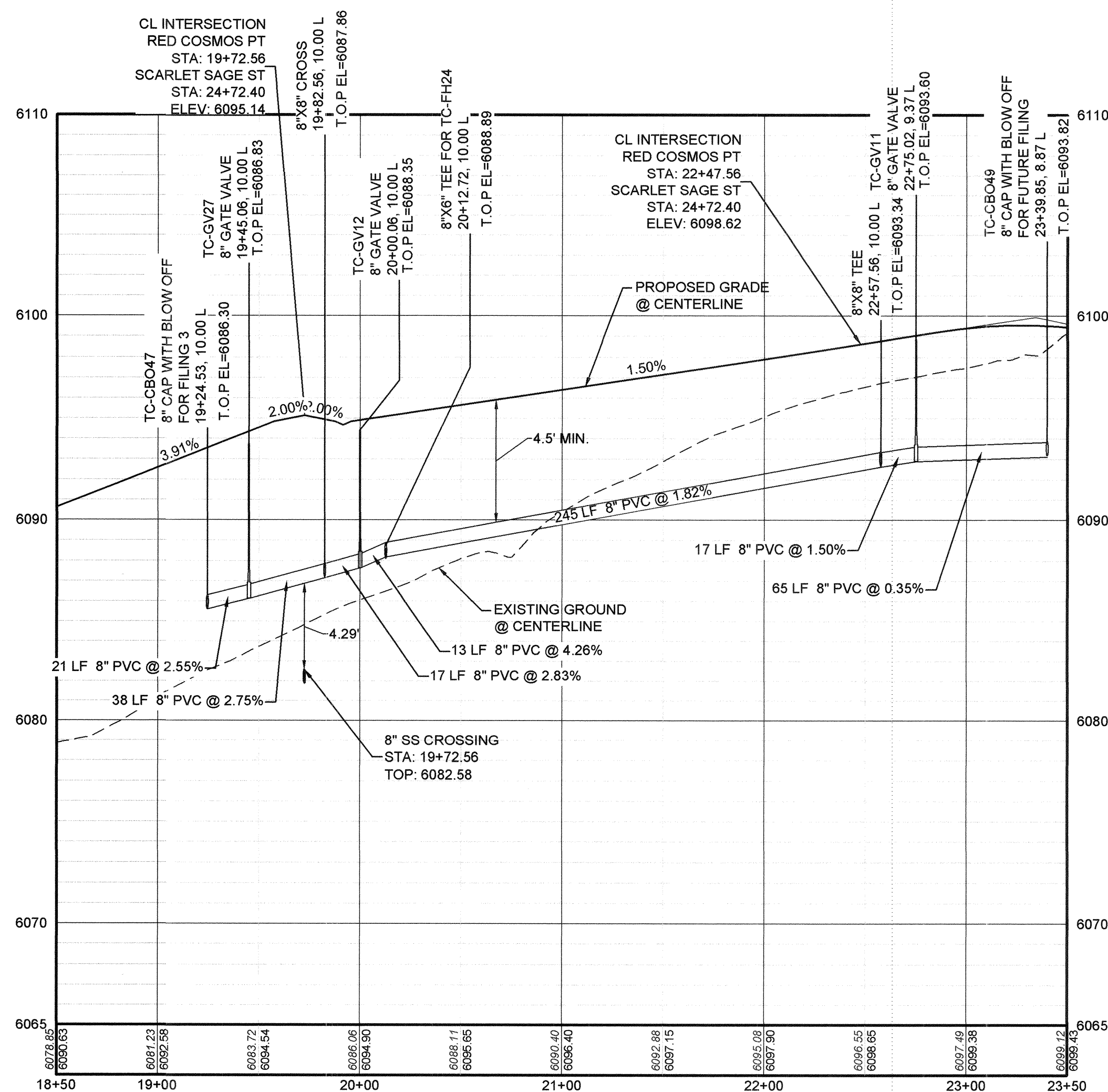
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Revisions: No. Date Appr. Date

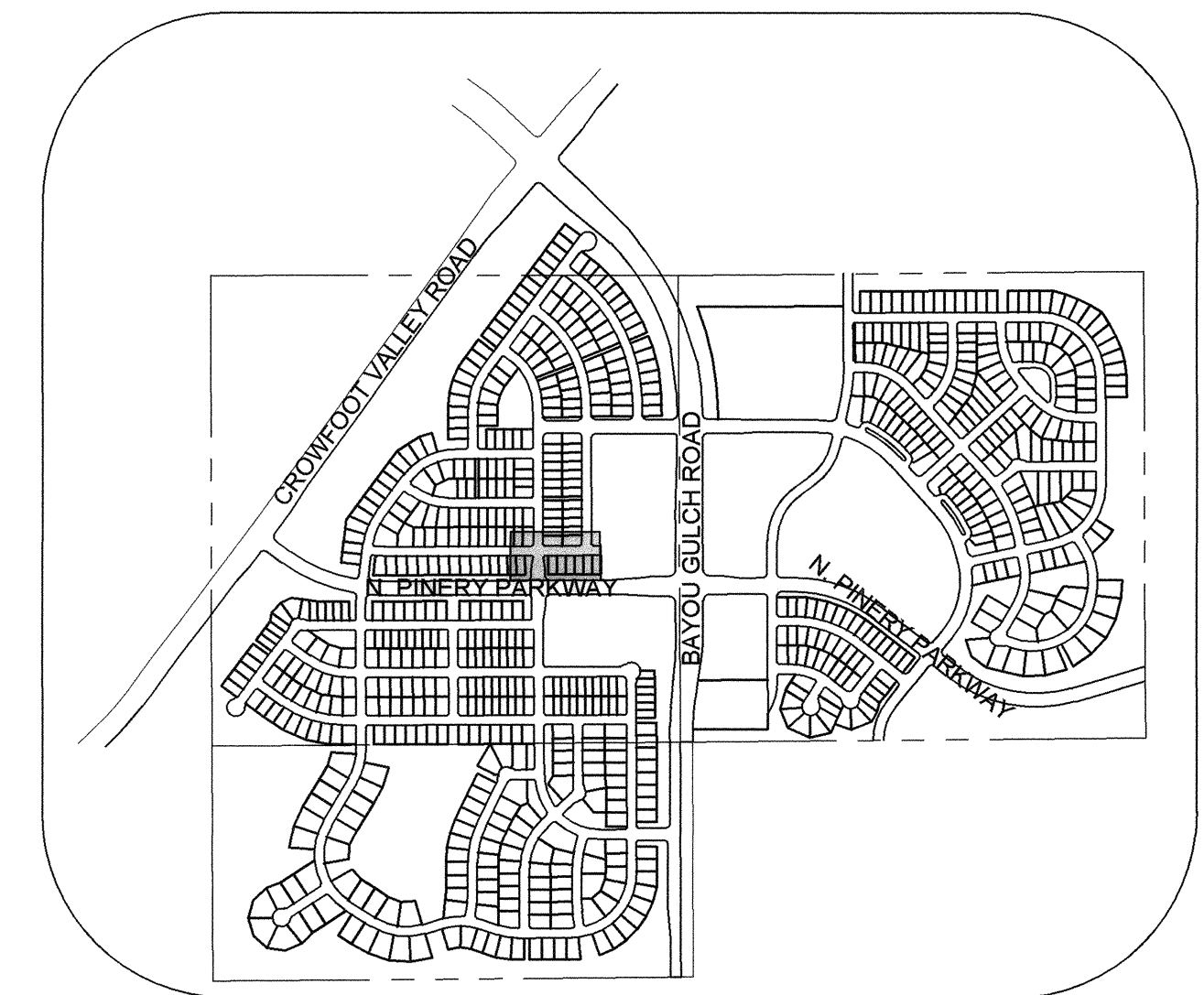
SHEET NUMBER 15



PLAN: RED COSMOS PT STA: 18+50.00 TO 23+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: RED COSMOS PT STA: 18+50.00 TO 23+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

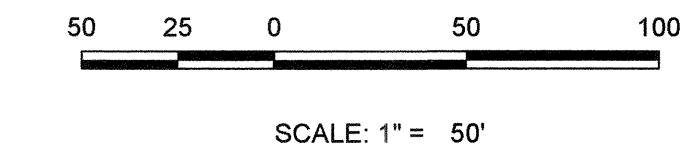


KEYMAP
N.T.S.
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊕	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
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⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊕	PROPOSED SIDEWALK	8"	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK RAMP	---	PROPOSED WATER LATERAL W/ METER
⊕	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE

FILING, BLOCK, LOT	STREET	STATIONING
F2,B6,L1	RED COSMOS PT	20+34.70
F2,B6,L2	RED COSMOS PT	20+84.70
F2,B6,L3	RED COSMOS PT	21+34.70
F2,B6,L4	RED COSMOS PT	21+84.70
F2,B6,L5	RED COSMOS PT	22+34.70
F2,B6,L6	RED COSMOS PT	22+84.70

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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CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	ROBC	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
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INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION



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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 86 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

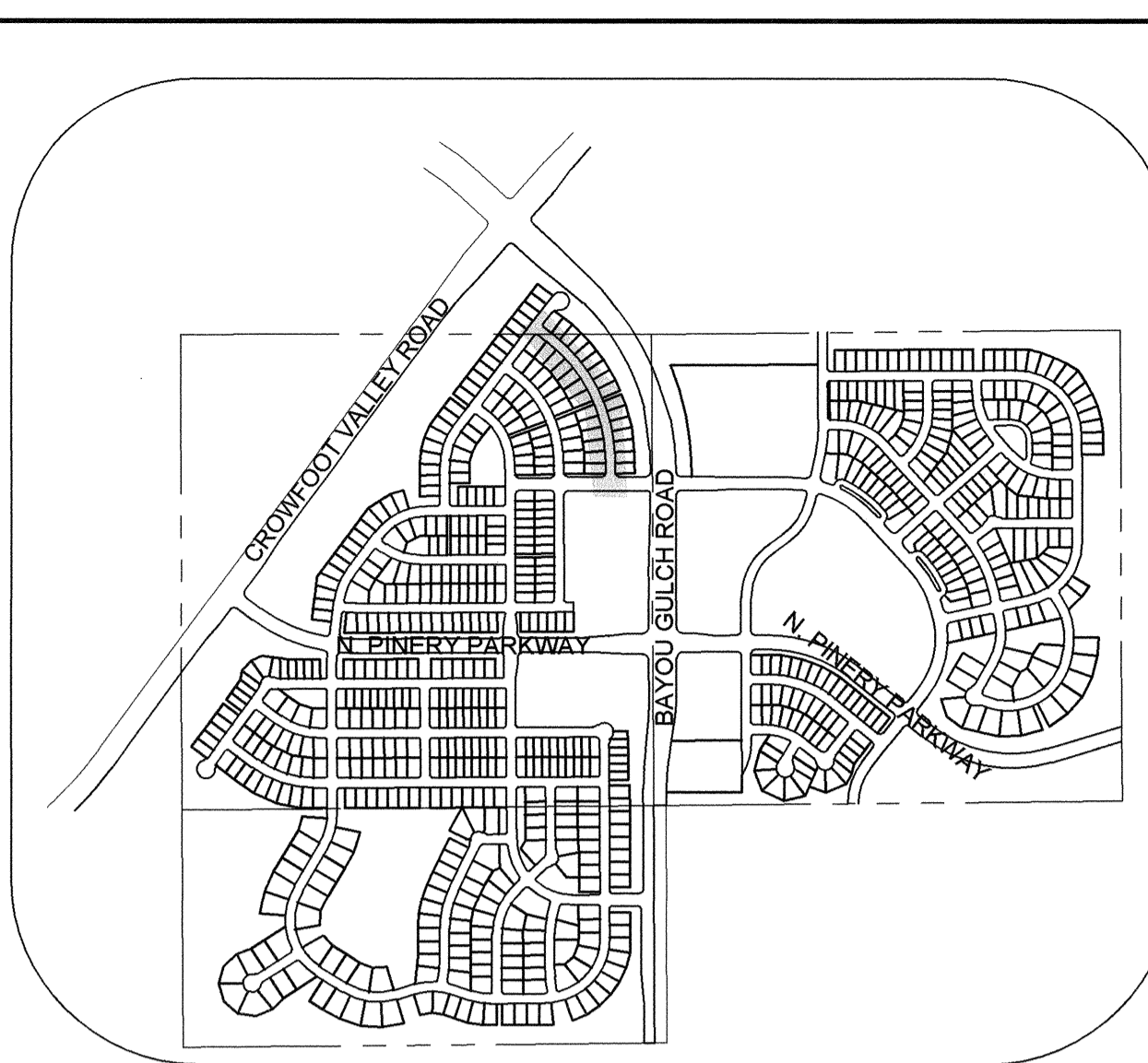
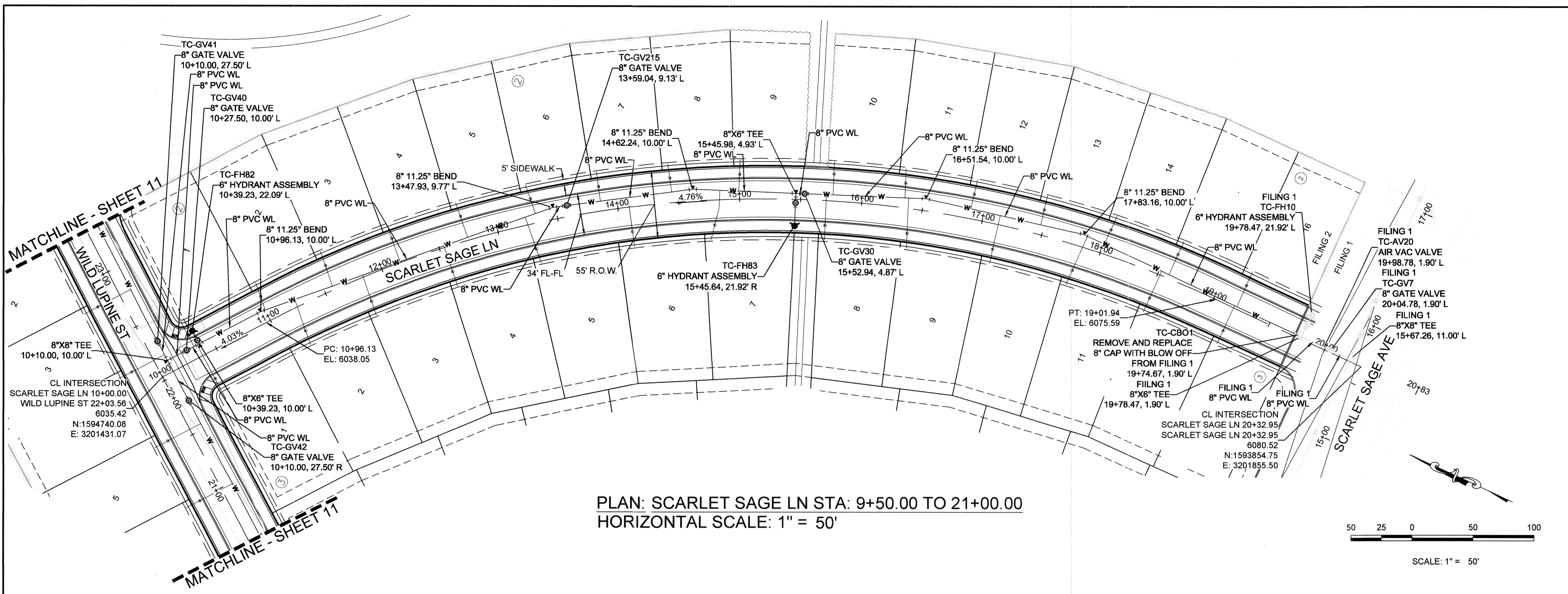
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	DRAWN BY:	RHR	CHECKED BY:	JU
16	DATE:	APRIL 2017	Revisions	No.
			Date	Appr.

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CVL
CONSULTANTS

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 3 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
RED COSMOS POINT

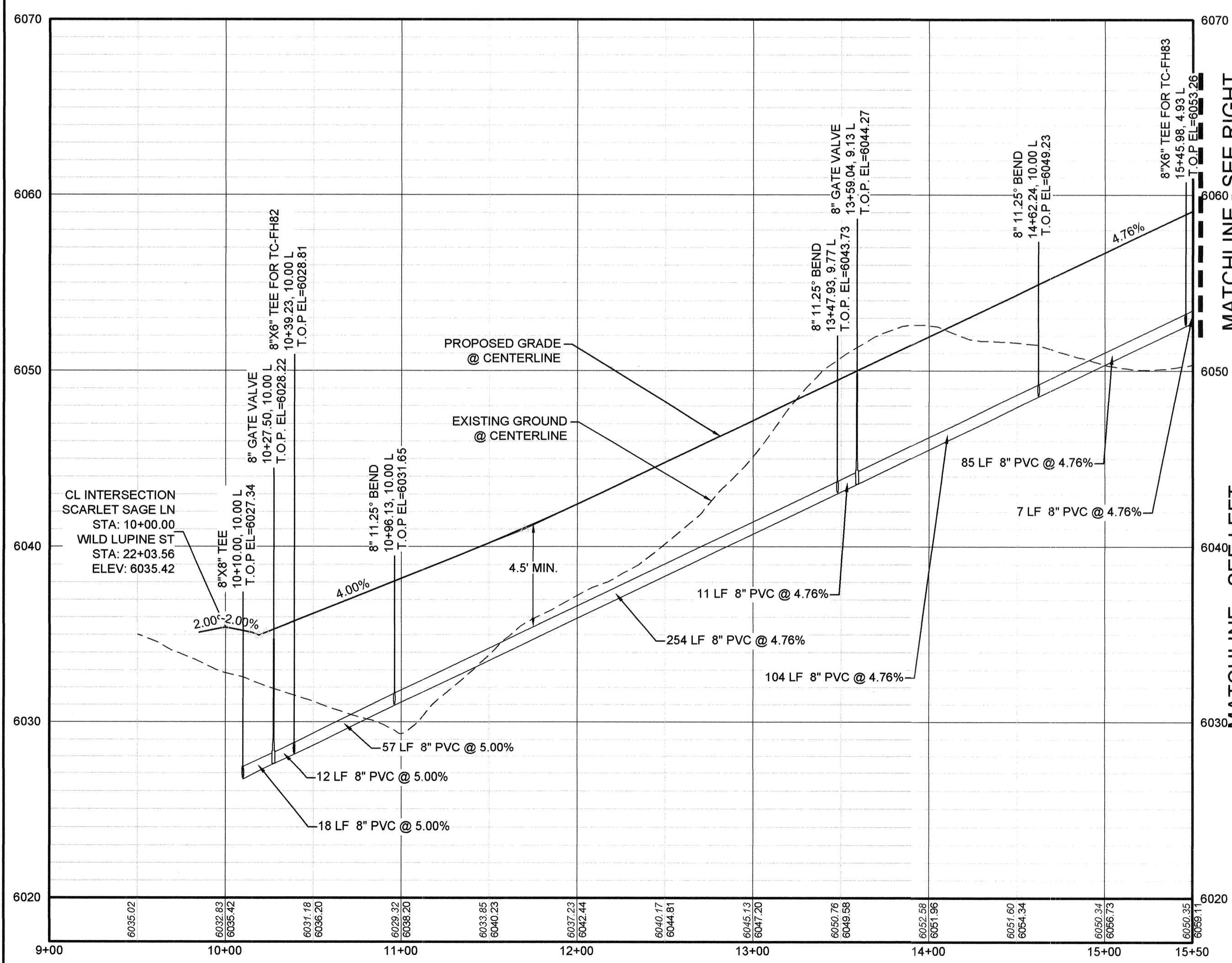


KEYMAP
N.T.S.

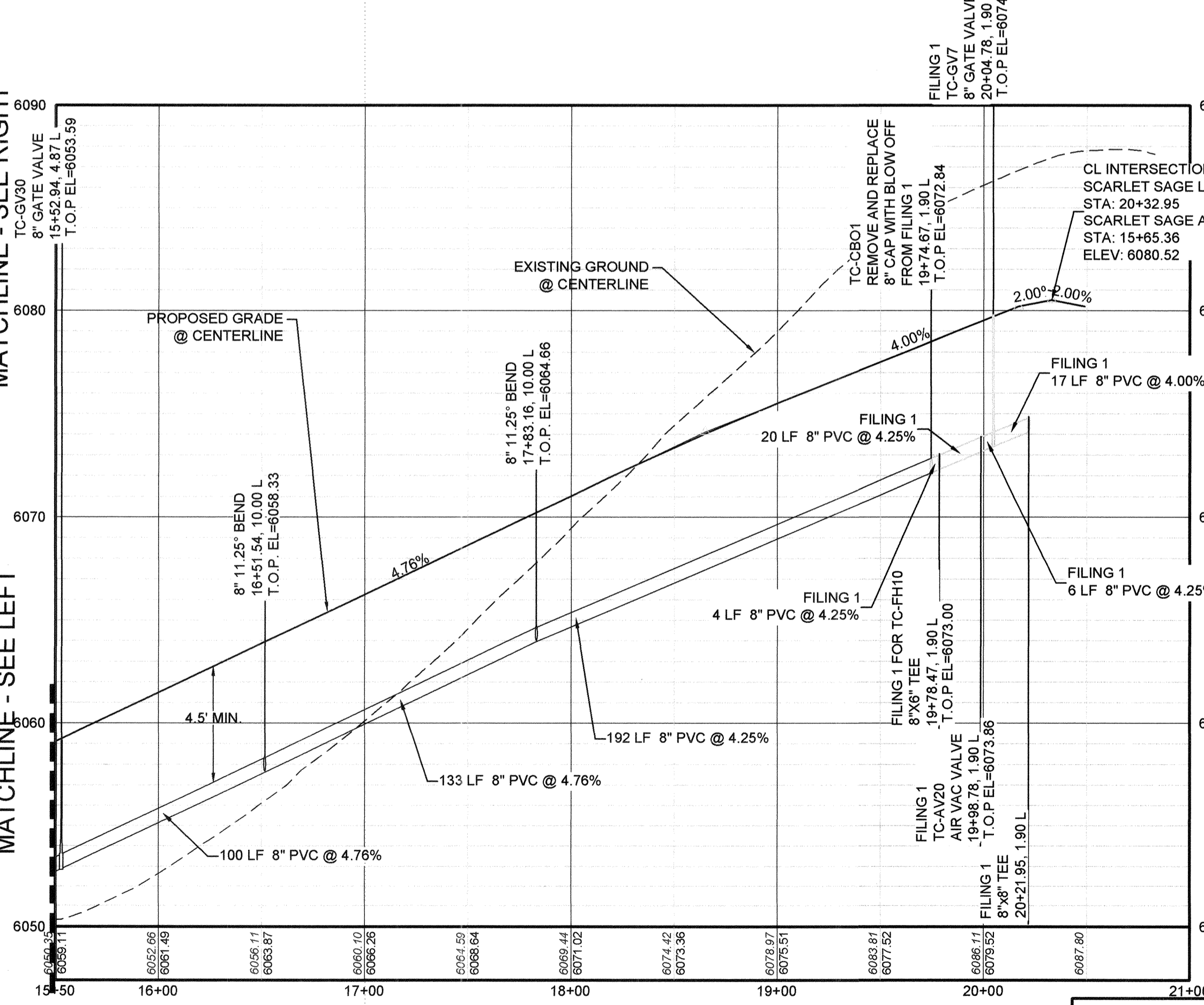
PLAN: SCARLET SAGE LN STA: 9+50.00 TO 21+00.00
HORIZONTAL SCALE: 1" = 50'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
(B)	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
(C)	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
(D)	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
(E)	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
(F)	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
(G)	PROPOSED WL FITTING WITH THRUST BLOCK	---	EXISTING 1' CONTOUR
(H)	PROPOSED FLARED END SECTION	---	PROPOSED 5' CONTOUR
(I)	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 1' CONTOUR
(J)	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
(K)	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
(L)	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
(M)	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
(N)	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
(O)	PROPOSED SIDEWALK RAMP	---	SECTION LINE
(P)	EXISTING ELEVATION	---	FILING BOUNDARY
(Q)	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
(R)	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD POWER
(S)	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE



PROFILE: SCARLET SAGE LN STA: 9+00.00 TO 15+50.00
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

NOTES:
1. SEE SHEET 3 FOR F2, B2, L1-16 & F3, B3, L1-13 WATER SERVICE DETAILS.

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COLORADO P.E. 0050067

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9226 Fax: (720) 482-9946	Revisions	Date	Appr.
CVL CONSULTANTS			
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112			
TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE SCARLET SAGE LANE			
SCALE: AS SHOWN DRAWN BY: RHR CHECKED BY: JJJ DATE: AUGUST 2017	FILE NO: 8130283701		
SHEET NUMBER	17		

INSPECTION POLICY:

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 LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL PIPE 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.

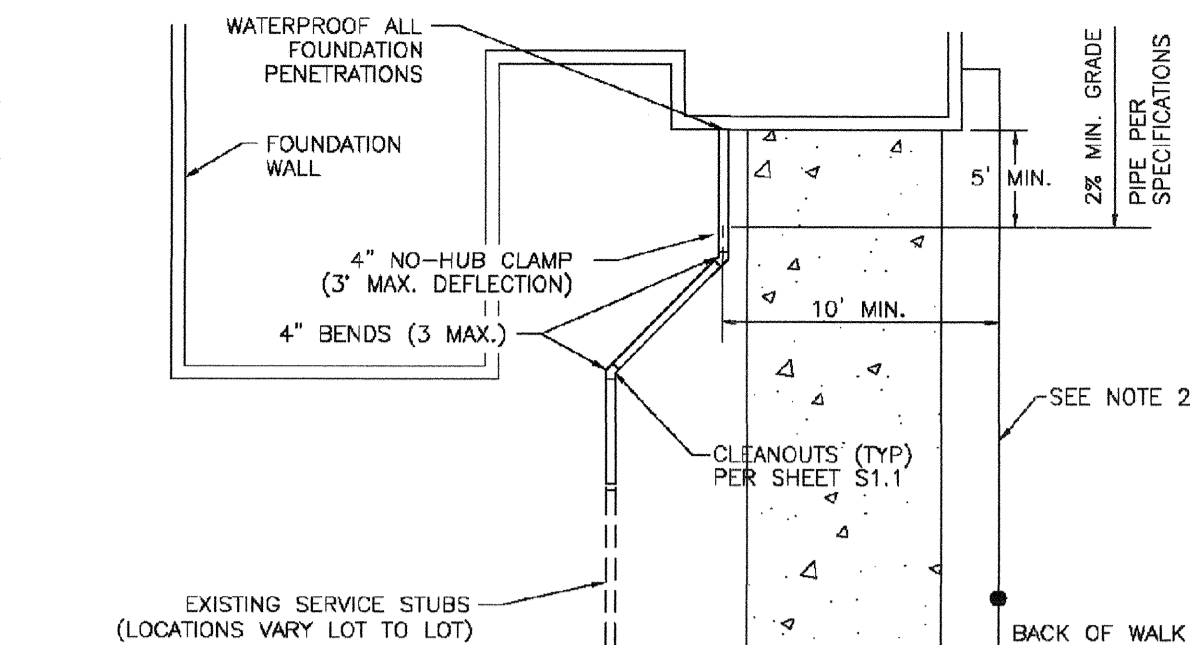
INSTALLATION NOTES:

- SEWER**
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:
 * FOR SANITARY SEWER SERVICE
 * FOR WATER SERVICES

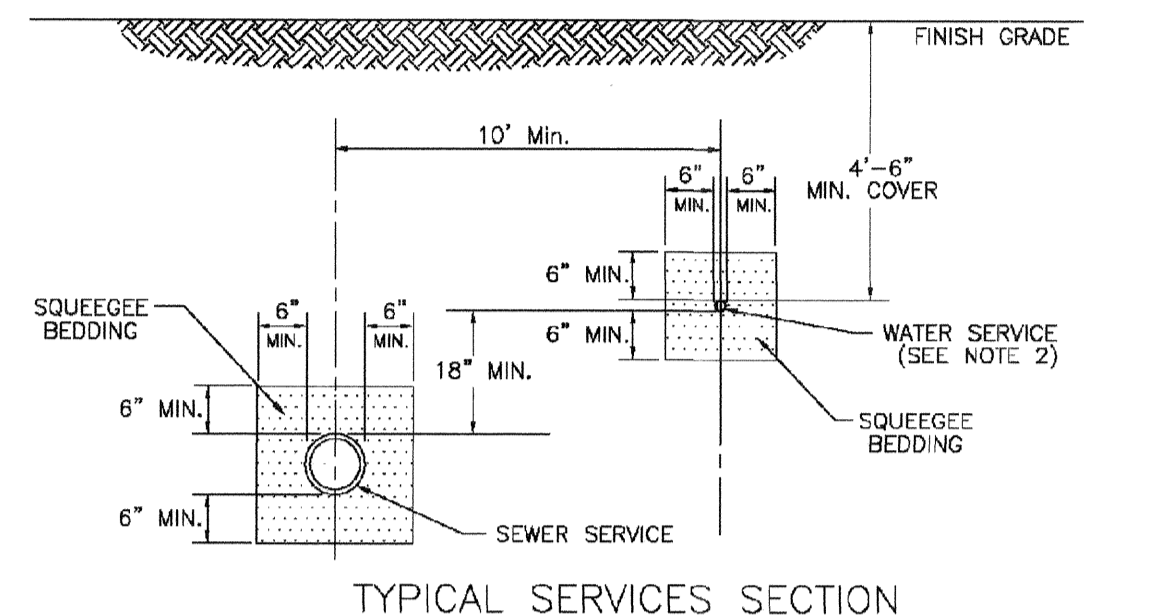
PARKER WATER & SANITATION DISTRICT
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/02	10/16
		1/08	1/16
DIRECTOR OF ENGINEERING			

SHEET 51.1



TYPICAL SERVICES PLAN VIEW



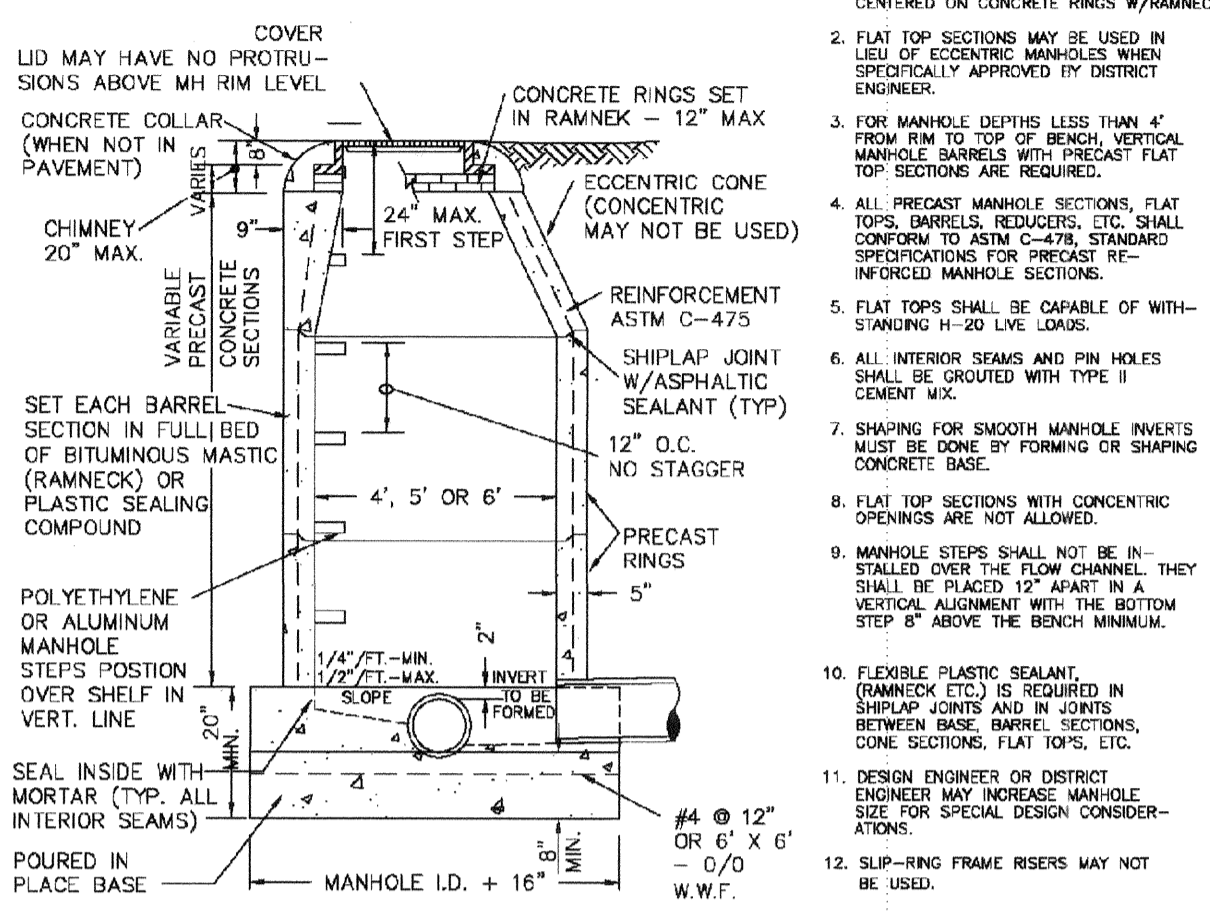
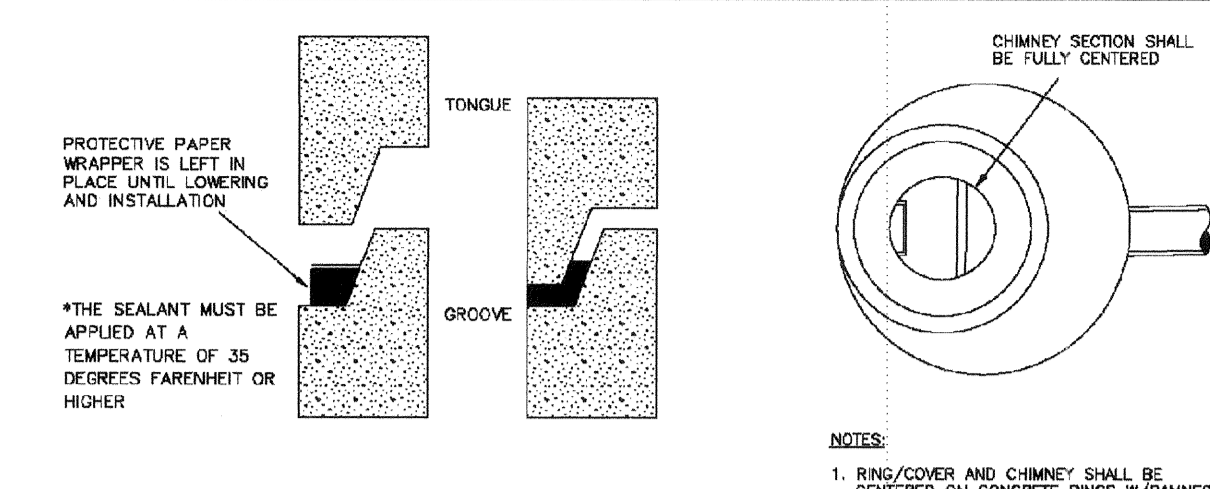
TYPICAL SERVICES SECTION

- NOTE:**
1. SEE SHEET S1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
 2. TYPICAL WATER SERVICES SHOWN ON SHEET W1.2 IN WATER DETAILS.

PARKER WATER & SANITATION DISTRICT
TYPICAL SEWER SERVICES

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	2/00	10/16
		01/02	01/16
DIRECTOR OF ENGINEERING			

SHEET 51.2

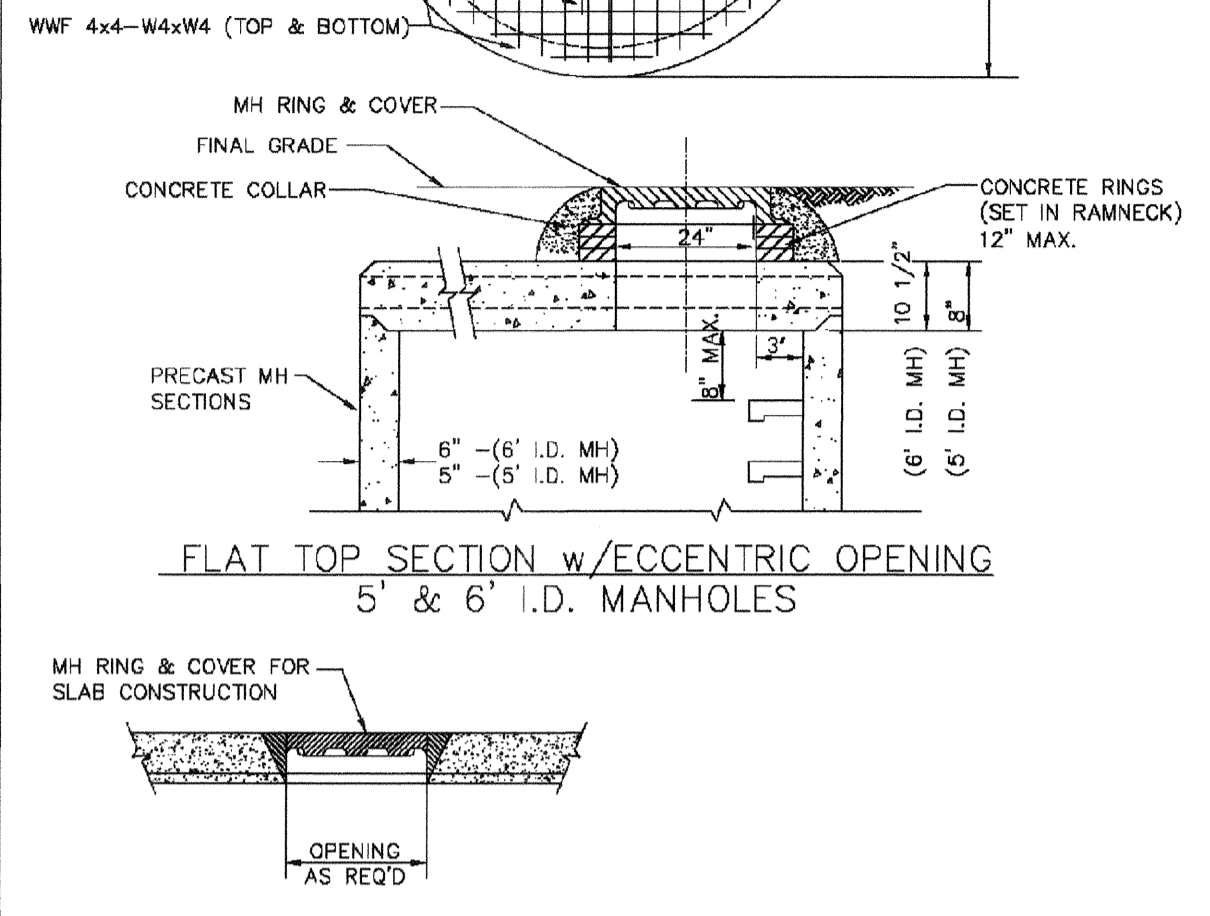
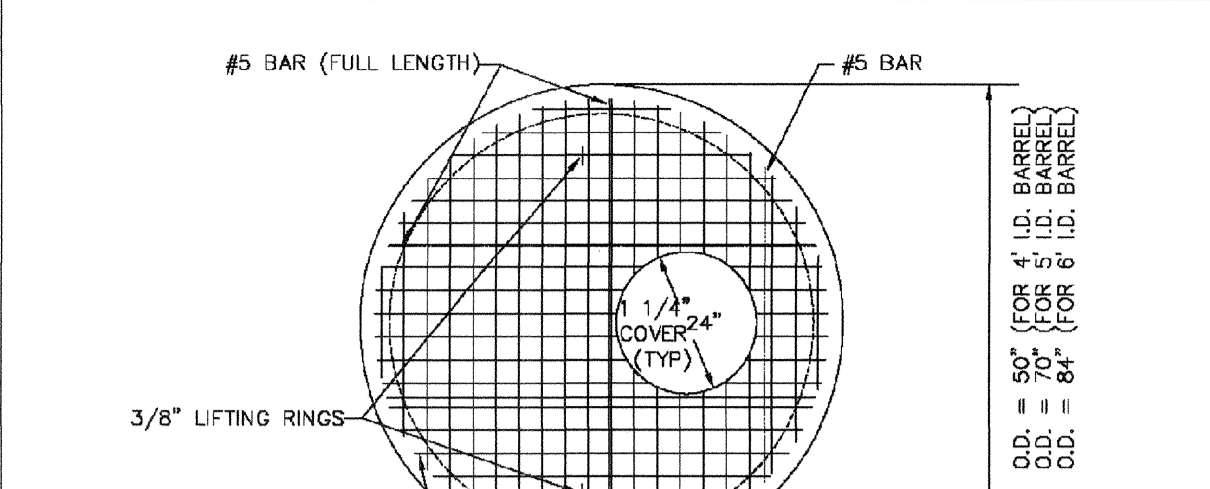


PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

PARKER WATER & SANITATION DISTRICT
PARKER MANHOLE ECCENTRIC CONE

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	4/00	10/16
		01/02	1/08
DIRECTOR OF ENGINEERING			1/16

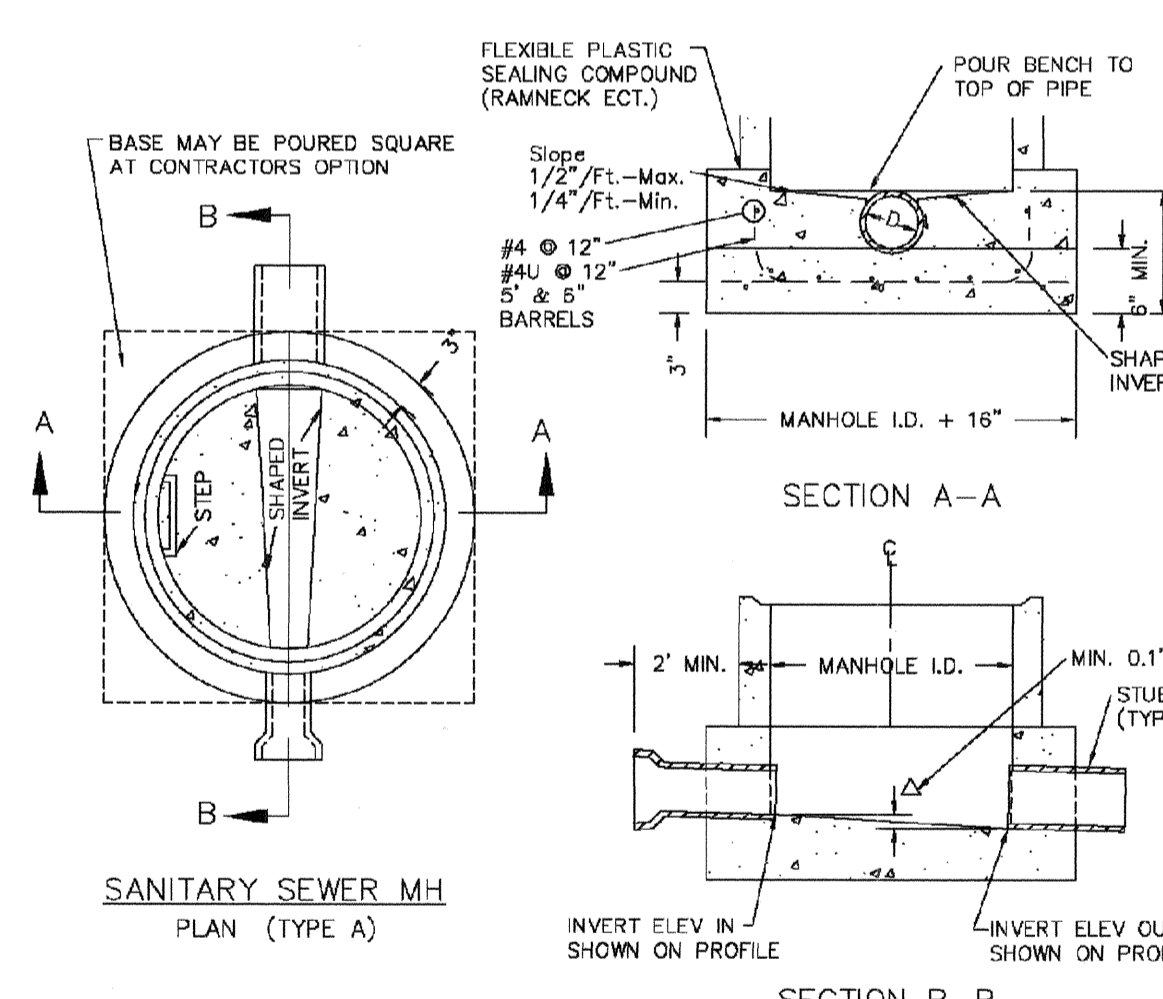
SHEET 53.1



PARKER WATER & SANITATION DISTRICT
PRECAST MANHOLE - 5' & 6' I.D. WITH ECCENTRIC CONE

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/02	01/16
		01/08	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.3

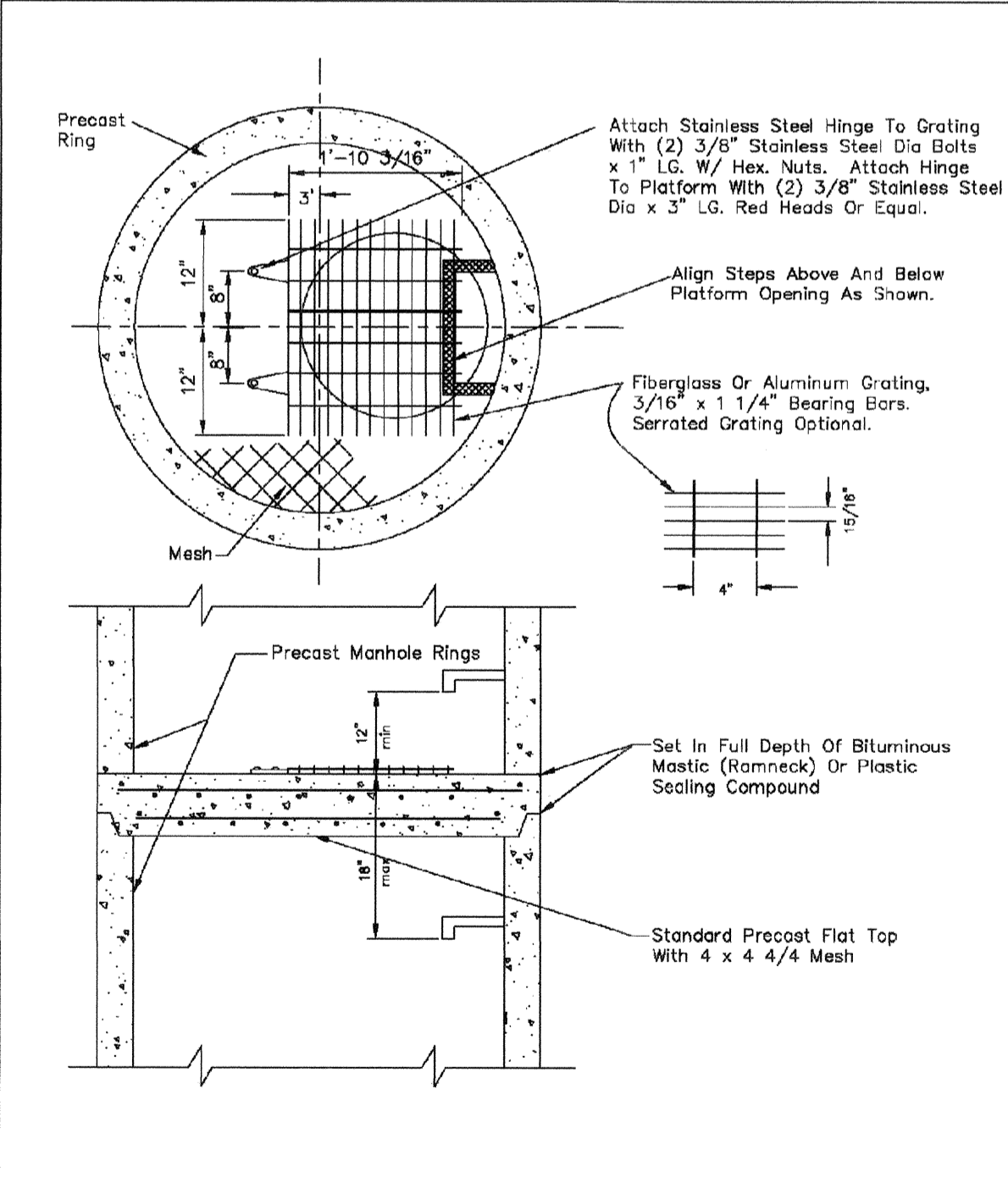


- NOTES:**
1. Manhole barrel min. thickness to be 5".
 2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
 3. The manhole steps shall conform to District Standards and Specifications.
 4. Precast sections to conform to A.S.T.M. C-478.
 5. All dead-end manholes that call out a stub out, shall be thru at 0.40% minimum slope.
 6. Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
 7. Reinforcing in base required for manhole.
 8. Slope of bench = 1/2"/FL - Max. 1/4"/FL - Min.
 9. Δ = invert drop thru MH (if Δ > 18", outside drop MH required). Min. 0.1" for all straight through MH and 0.2" for all angled MH.

PARKER WATER & SANITATION DISTRICT
CAST-IN-PLACE MANHOLE BASE DETAIL

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/02	01/16
		01/08	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.5

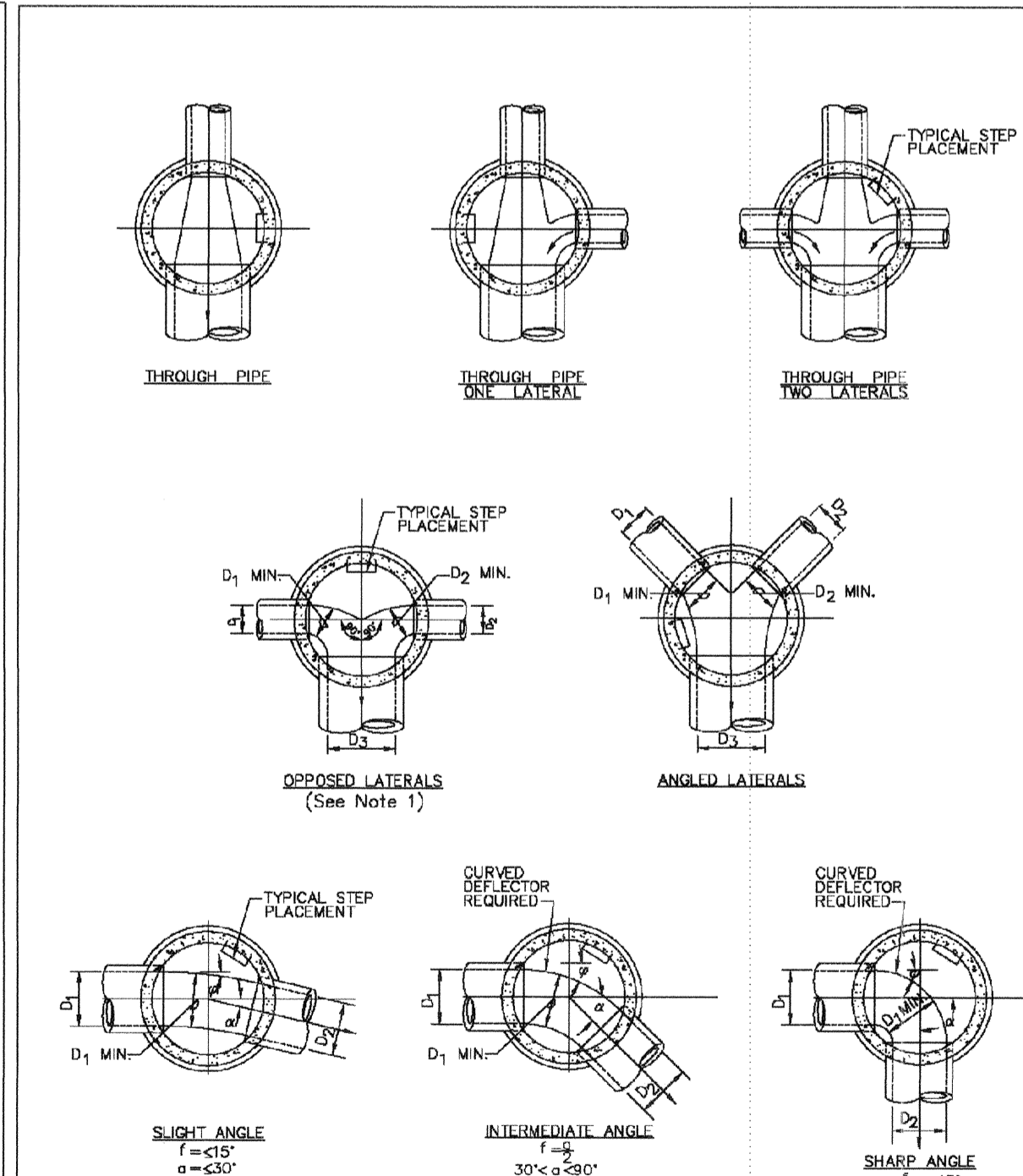


- NOTES:**
- 1.1 Maximum distance between platforms shall be 15' vertically.
 - 1.2 All hardware used inside a manhole shall be stainless steel.
 - 1.3 Manholes over 20' deep shall submit structural calculations on base and wall sizing.

PARKER WATER & SANITATION DISTRICT
INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	2/00	10/16
		1/16	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.6

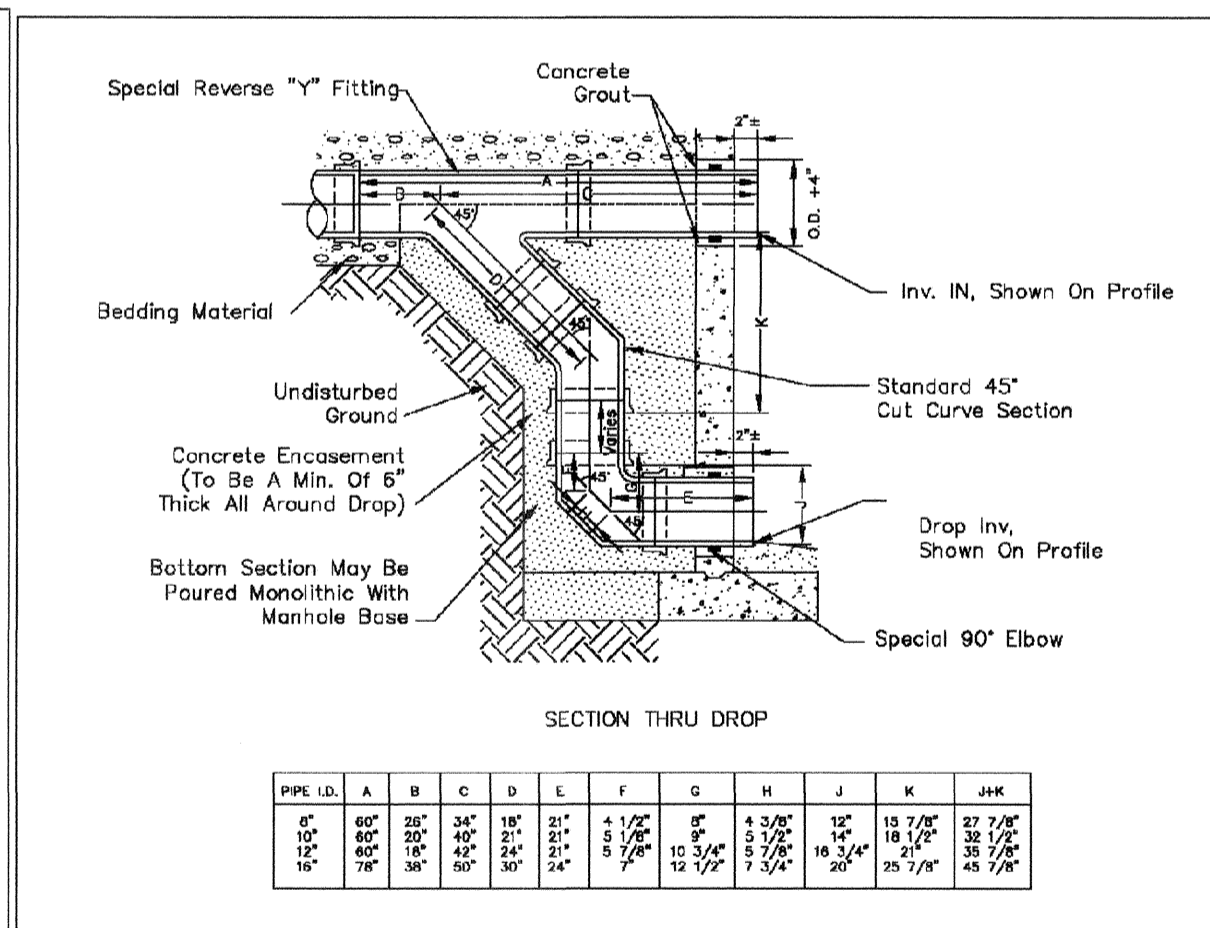


- NOTES:**
1. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT
TYPICAL BASE CHANNELIZATION DETAILS

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/16	10/16
		01/16	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.7

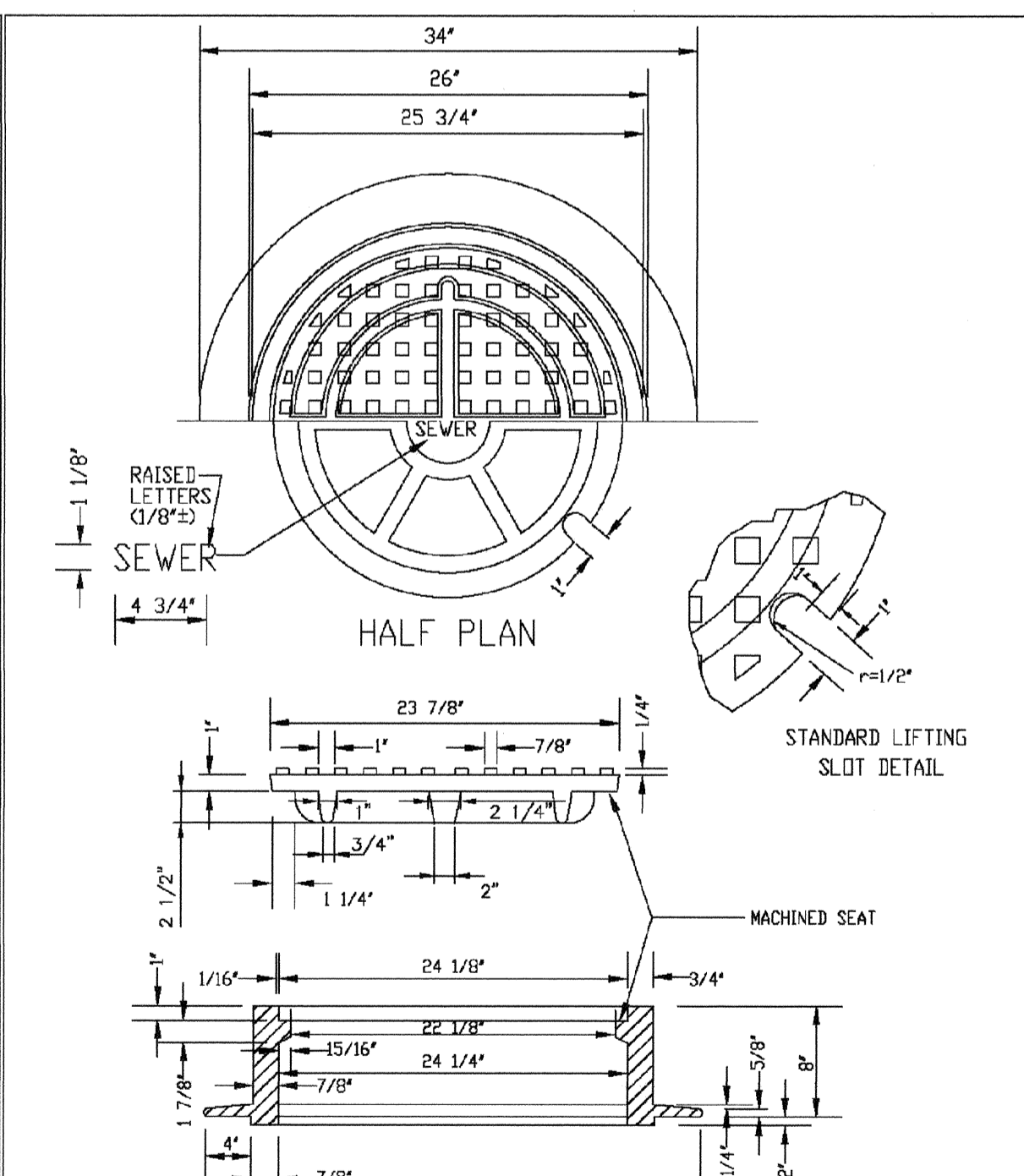


PIPE I.D.	A	B	C	D	E	F	G	H	J	K	J&K
18" & 21"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"
24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
36"	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"
42"	42"	42"	42"	42"	42"	42"	42"	42"	42"	42"	42"
48"	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"
54"	54"	54"	54"	54"	54"	54"	54"	54"	54"	54"	54"
60"	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"

PARKER WATER & SANITATION DISTRICT
OUTSIDE DROP MANHOLE CONSTRUCTION

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/16	10/16
		01/16	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.8



- NOTES:**
1. Coating Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
 2. All Coating To Be Dipped In Asphalt Base Paint (Or Approved Equal).
 3. No other manhole lids will be accepted without prior approval from the District Engineer.

PARKER WATER & SANITATION DISTRICT
24" DIAMETER RING AND COVER

SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/16	10/16
		01/16	10/16
DIRECTOR OF ENGINEERING			

SHEET 53.9

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

10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9226
Fax: (720) 482-9546

CVL CONSULTANTS

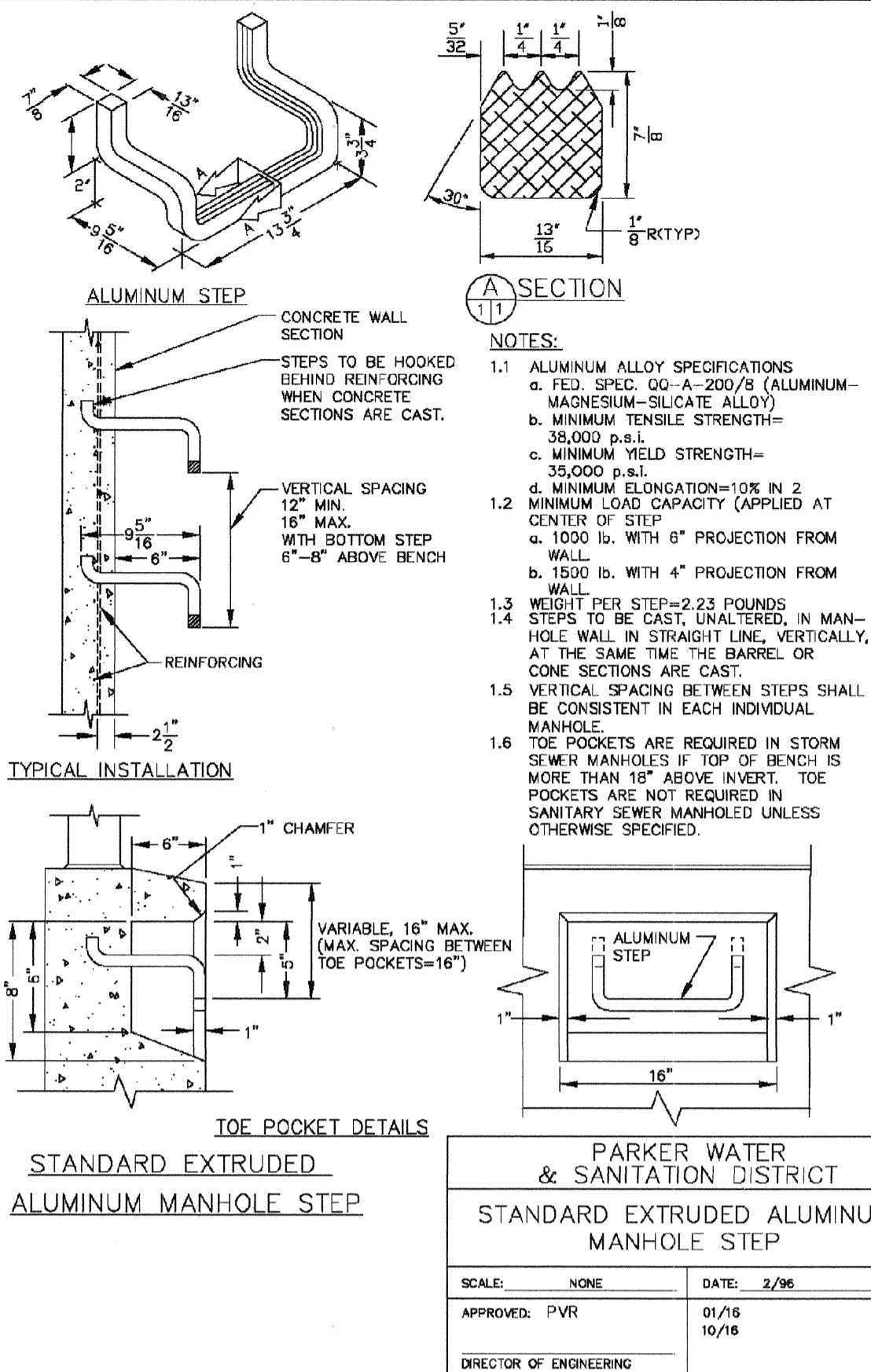
HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
PRELIMINARY CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DATE: OCTOBER.2017

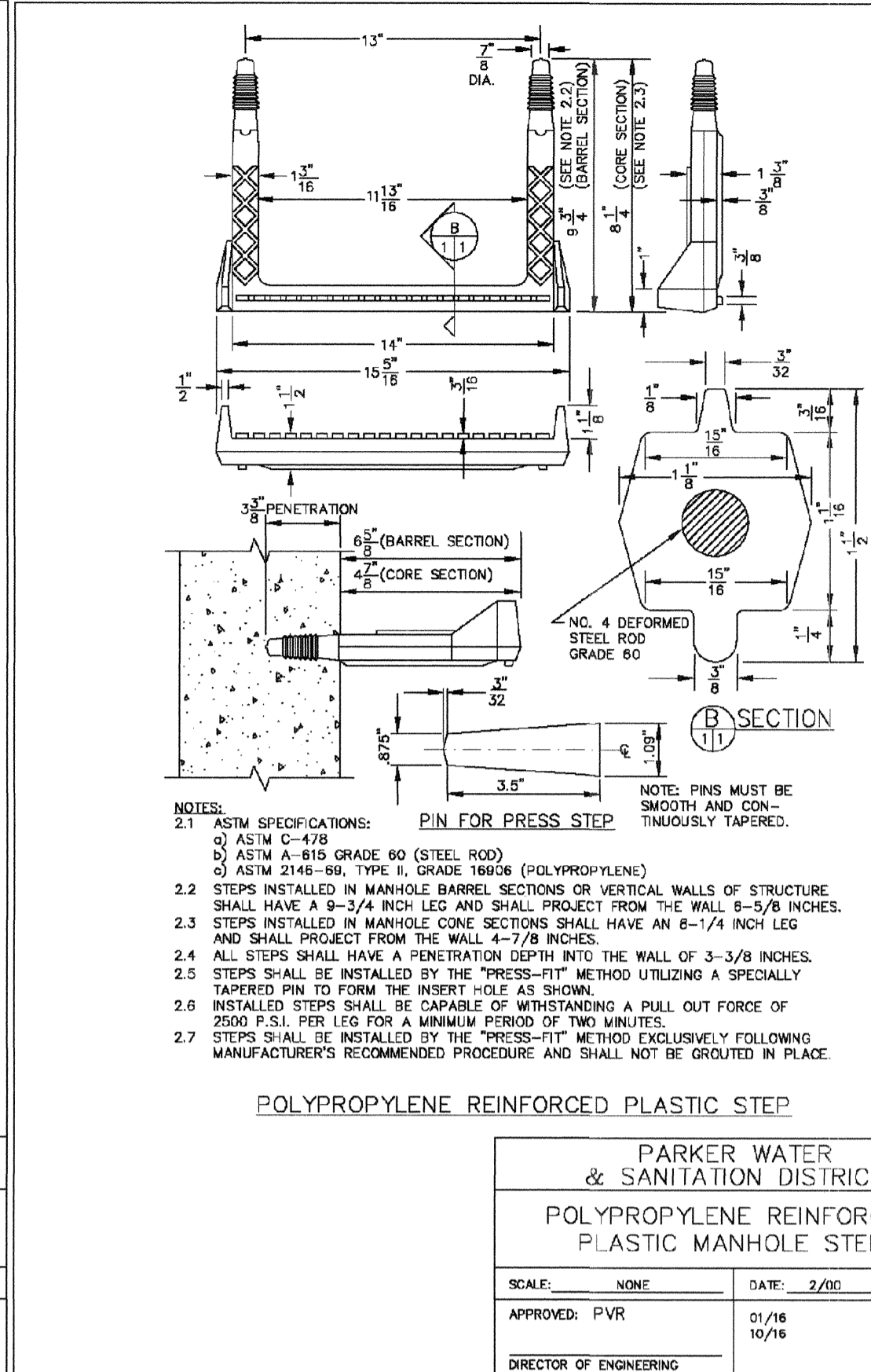
SHEET NUMBER 18

Revisions	No.	Date	Init.	Appr.	Date



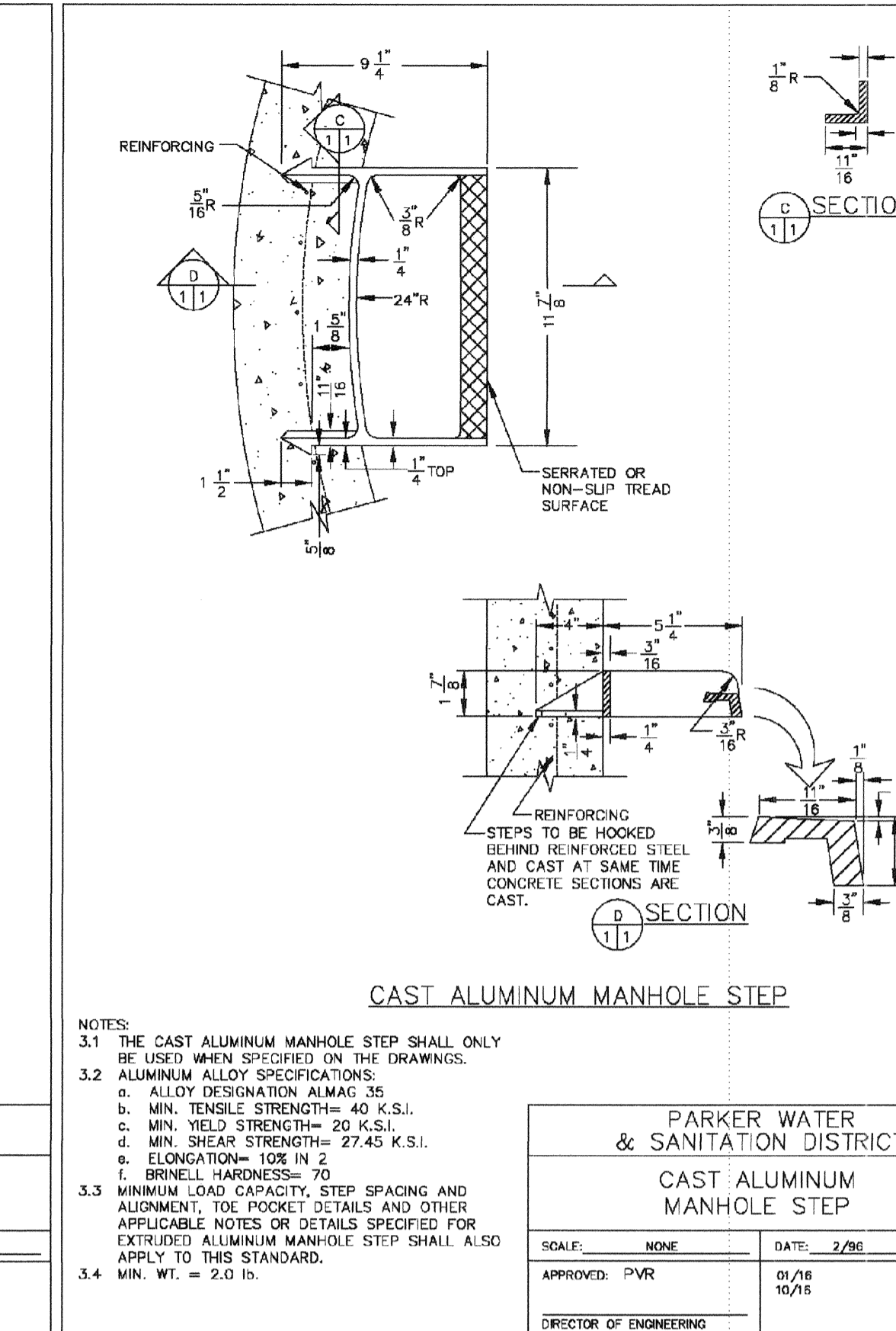
NOTES:
 1.1 ALUMINUM ALLOY SPECIFICATIONS
 a. FED. SPEC. QQ-A-200/S (ALUMINUM-MAGNESIUM-SILICATE ALLOY)
 b. MINIMUM TENSILE STRENGTH=38,000 p.s.i.
 c. MINIMUM YIELD STRENGTH=35,000 p.s.i.
 1.2 MINIMUM ELONGATION=10% IN 2"
 1.3 MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP)
 a. 1000 lb. WITH 4" PROJECTION FROM WALL
 b. 1500 lb. WITH 4" PROJECTION FROM WALL
 1.4 WEIGHT PER STEP=2-23 POUNDS
 1.5 STEPS TO BE CAST (UNALTERED) IN MANHOLE WALL IN STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
 1.6 VERTICAL SPACING BETWEEN STEPS SHALL BE CONSISTENT IN EACH INDIVIDUAL MANHOLE.
 1.7 TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 18" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.

PARKER WATER & SANITATION DISTRICT
STANDARD EXTRUDED ALUMINUM MANHOLE STEP
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 01/16 10/16
 DIRECTOR OF ENGINEERING



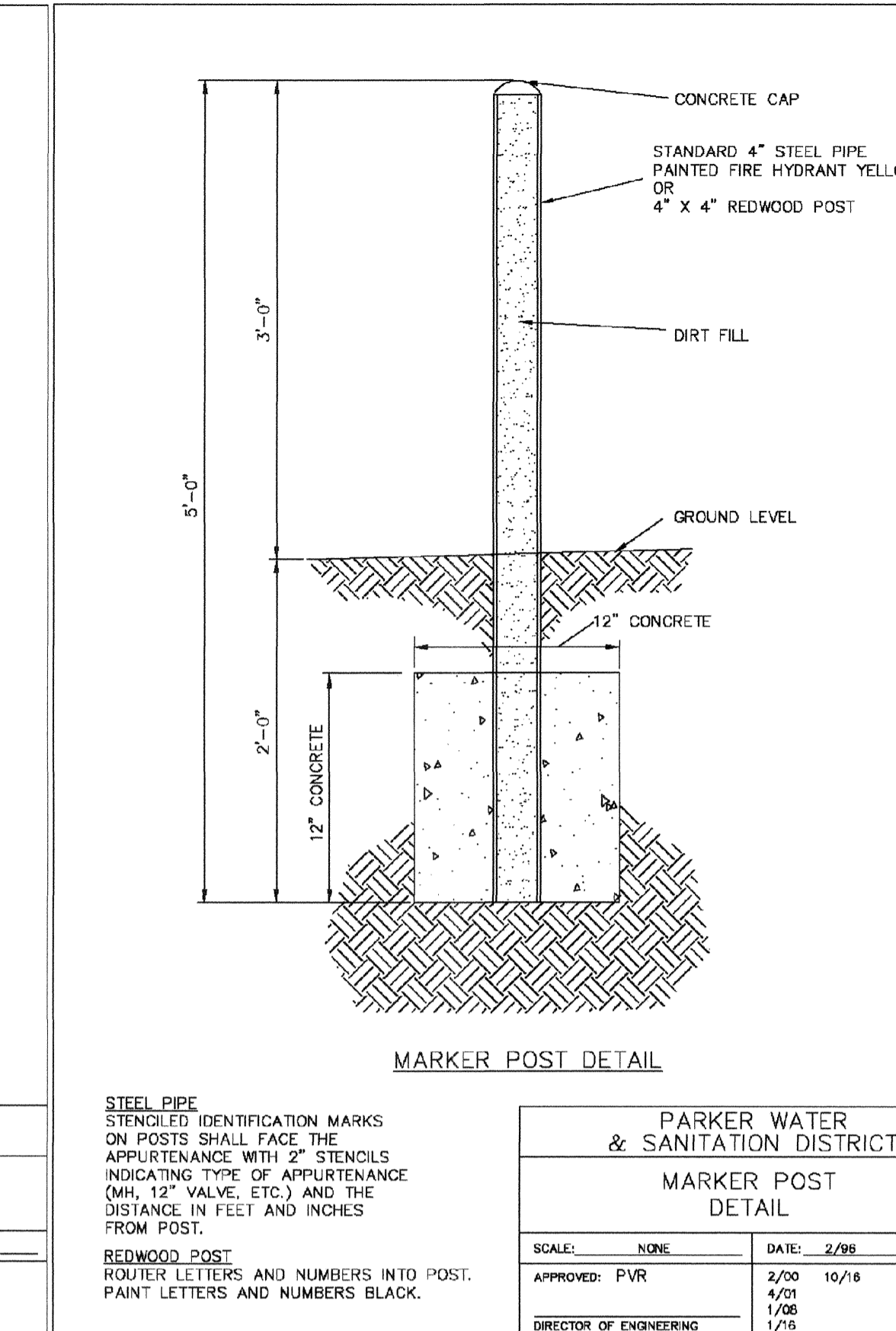
NOTES:
 2.1 ASTM SPECIFICATIONS:
 a) ASTM C-478
 b) ASTM A-615 GRADE 60 (STEEL ROD)
 c) ASTM 2146-86, TYPE 6, DENSE THERM (POLYPROPYLENE)
 2.2 STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 9-3/4" INCH LEG AND SHALL PROJECT FROM THE WALL 5-5/8" INCHES.
 2.3 STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4" INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8" INCHES.
 2.4 ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8" INCHES.
 2.5 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT (AS SHOWN).
 2.6 INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
 2.7 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUDED IN PLACE.

PARKER WATER & SANITATION DISTRICT
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 01/16 10/16
 DIRECTOR OF ENGINEERING

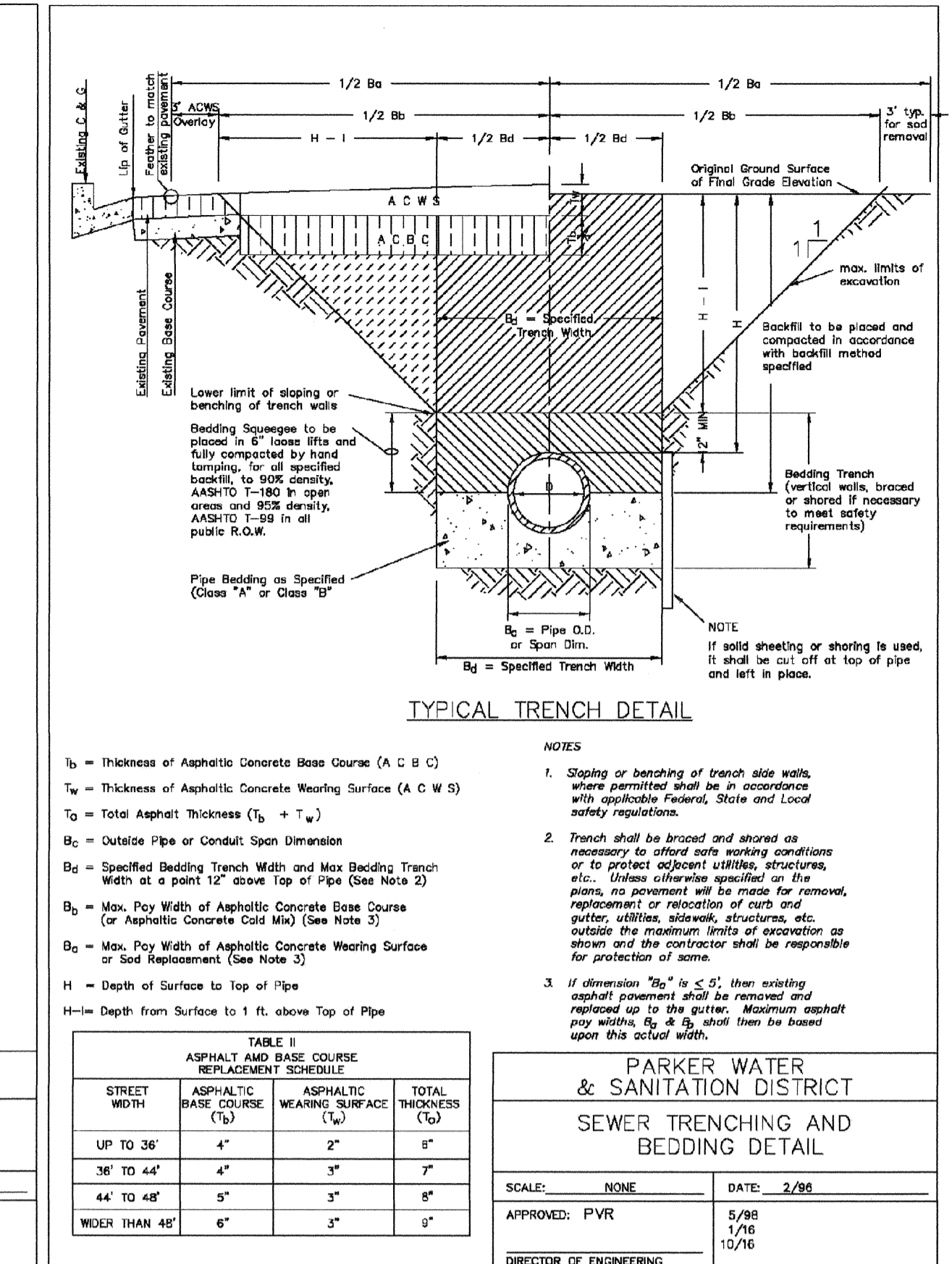


NOTES:
 3.1 THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.
 3.2 ALUMINUM ALLOY SPECIFICATIONS:
 a. ALLOY DESIGNATION: A136-35
 b. MIN. TENSILE STRENGTH: 40 K.S.I.
 c. MIN. YIELD STRENGTH: 20 K.S.I.
 d. MIN. SHEAR STRENGTH: 27.45 K.S.I.
 e. ELONGATION: 10% IN 2"
 f. BRINELL HARDNESS: 70
 3.3 MINIMUM LOAD CAPACITY, STEP SPACING AND ALIGNMENT, TOE POCKET DETAILS AND OTHER APPLICABLE NOTES OR DETAILS SPECIFIED FOR EXTRUDED ALUMINUM MANHOLE STEP SHALL ALSO APPLY TO THIS STANDARD.
 3.4 MIN. WT. = 2.0 LBS.

PARKER WATER & SANITATION DISTRICT
CAST ALUMINUM MANHOLE STEP
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 01/16 10/16
 DIRECTOR OF ENGINEERING

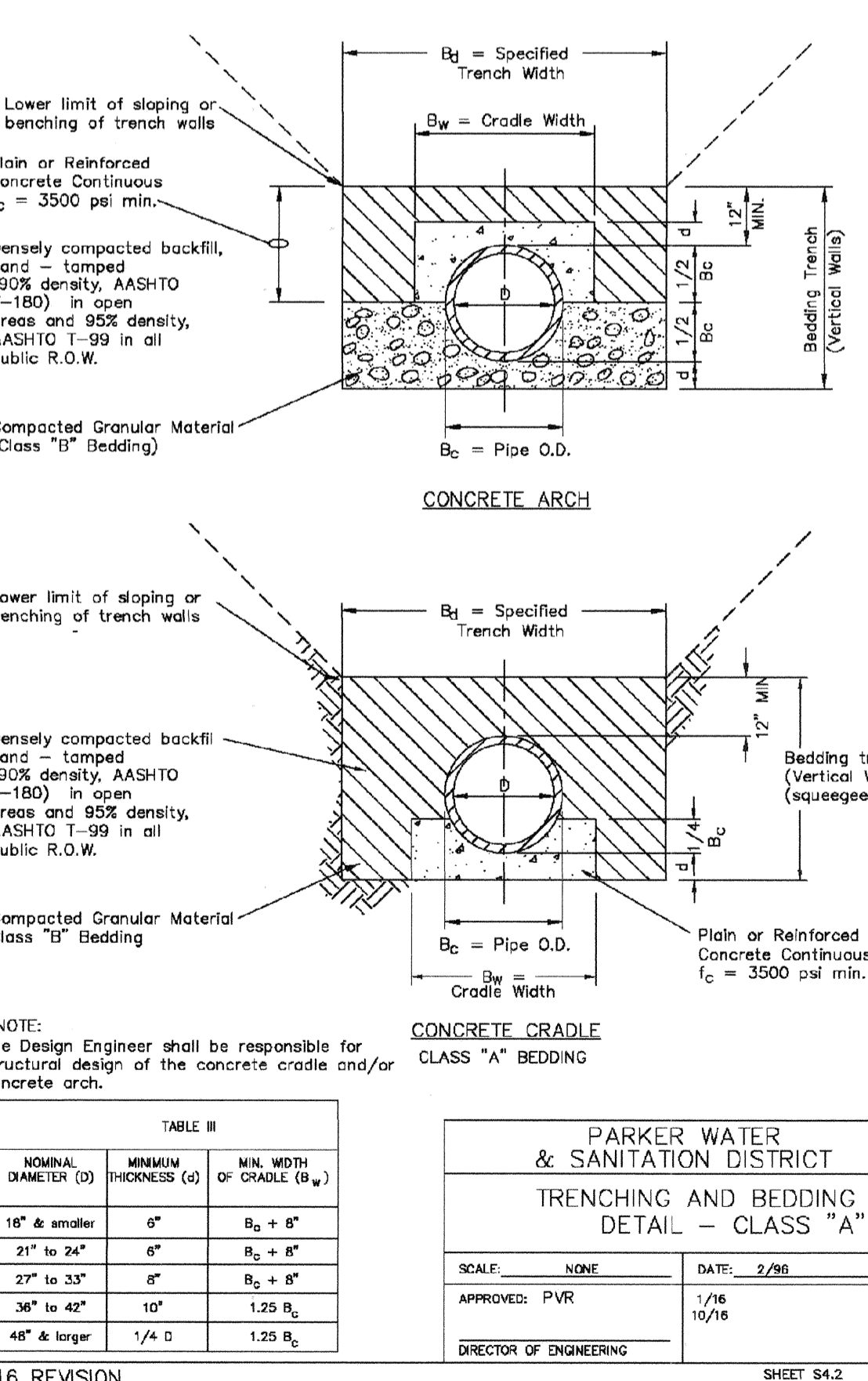


PARKER WATER & SANITATION DISTRICT
MARKER POST DETAIL
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 2/00 10/16 1/06 1/06 1/06 1/16
 DIRECTOR OF ENGINEERING

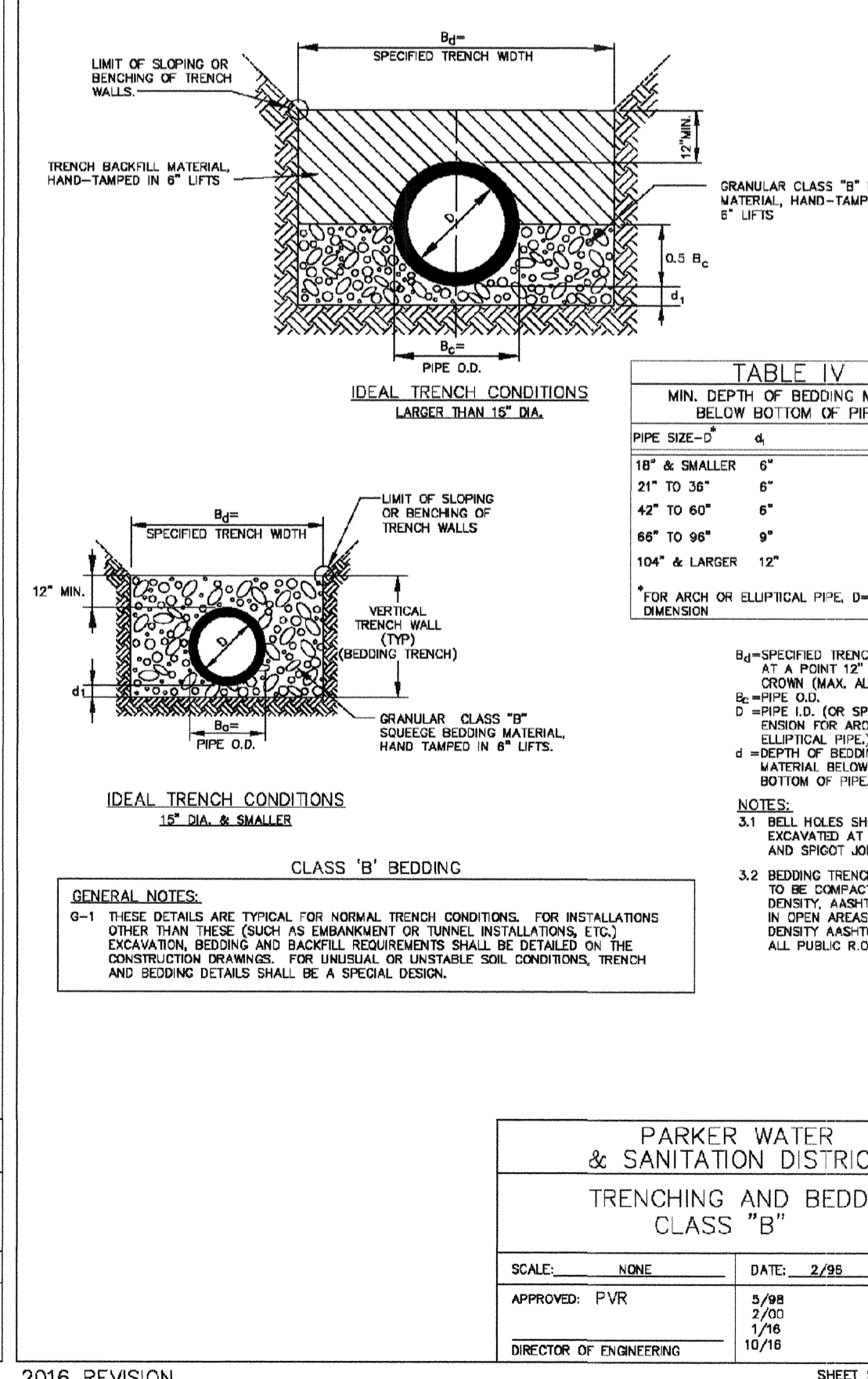


NOTES:
 1. Sloping or benching of trench side walls, where permitted shall be in accordance with applicable Federal, State and Local safety regulations.
 2. Trench shall be braced and shored as necessary to protect existing utilities, structures, etc. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutter, utilities, sidewalk, structures, etc. outside the maximum limits of excavation as shown on the drawings. The contractor shall be responsible for protection of same.
 3. If dimension T_2 is $\leq 4'$, then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum depth of any width B_2 & B_3 shall then be based upon the listed width.

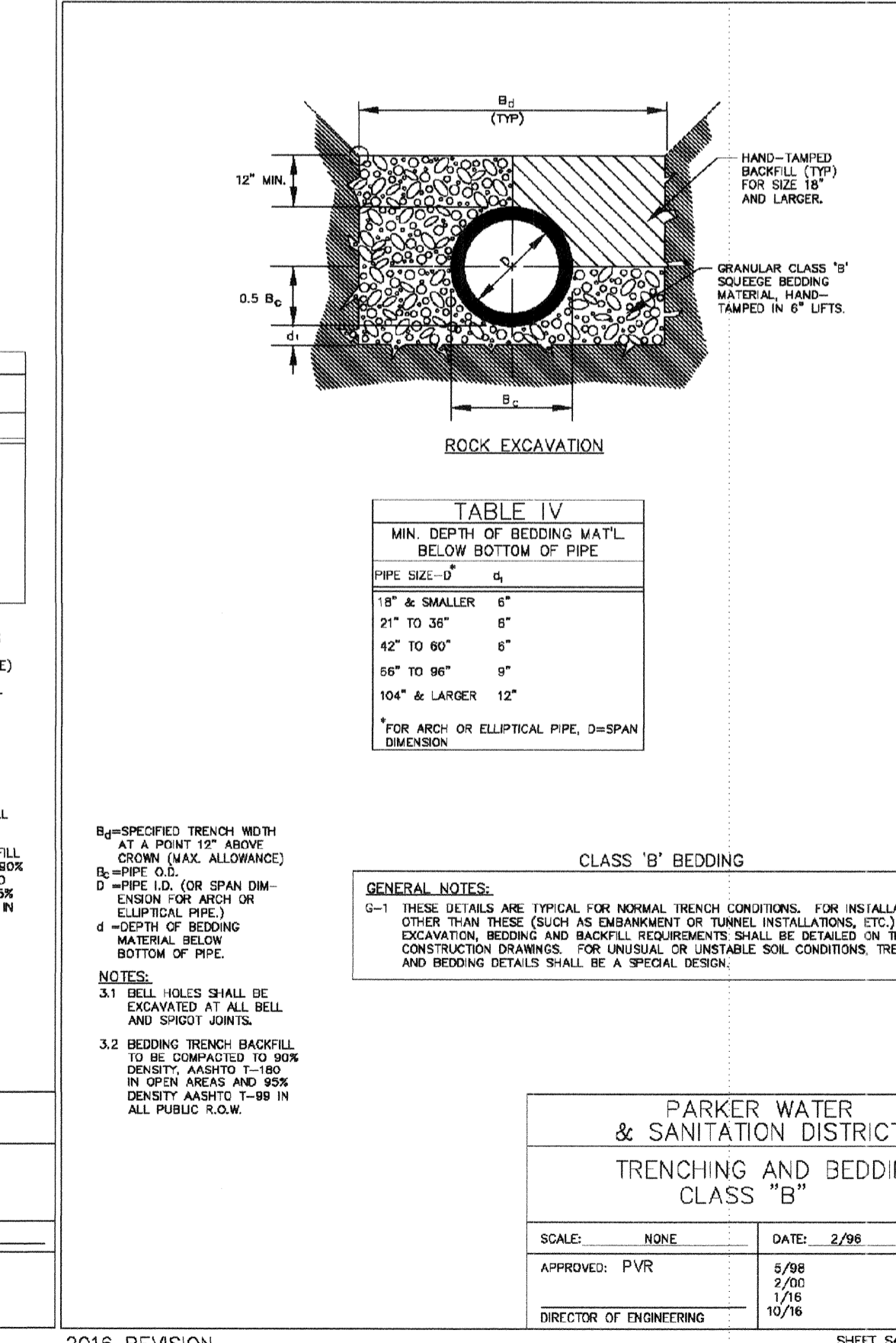
PARKER WATER & SANITATION DISTRICT
SEWER TRENCHING AND BEDDING DETAIL
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 5/88 1/16 10/16
 DIRECTOR OF ENGINEERING



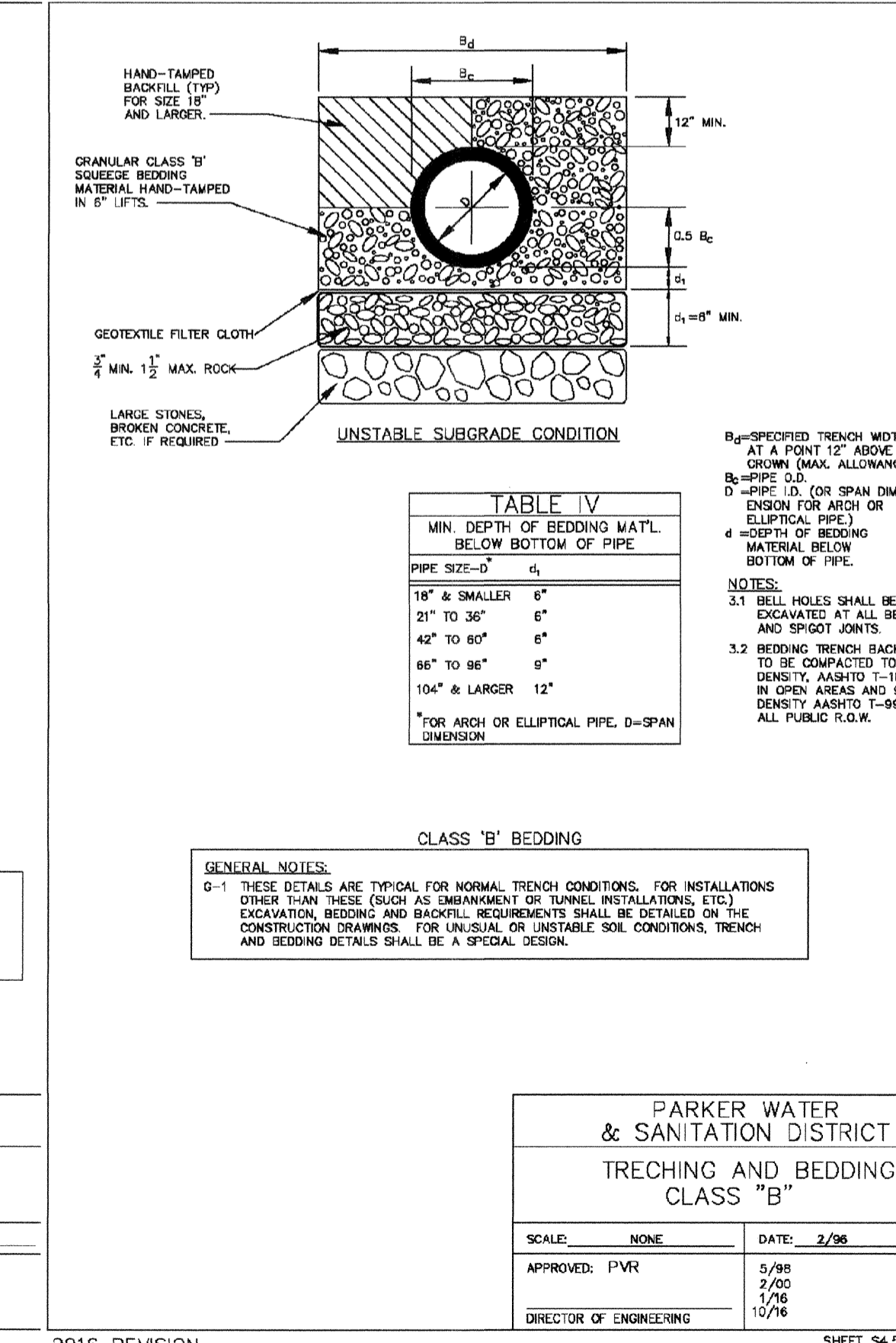
PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "A"
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 1/16 10/16
 DIRECTOR OF ENGINEERING



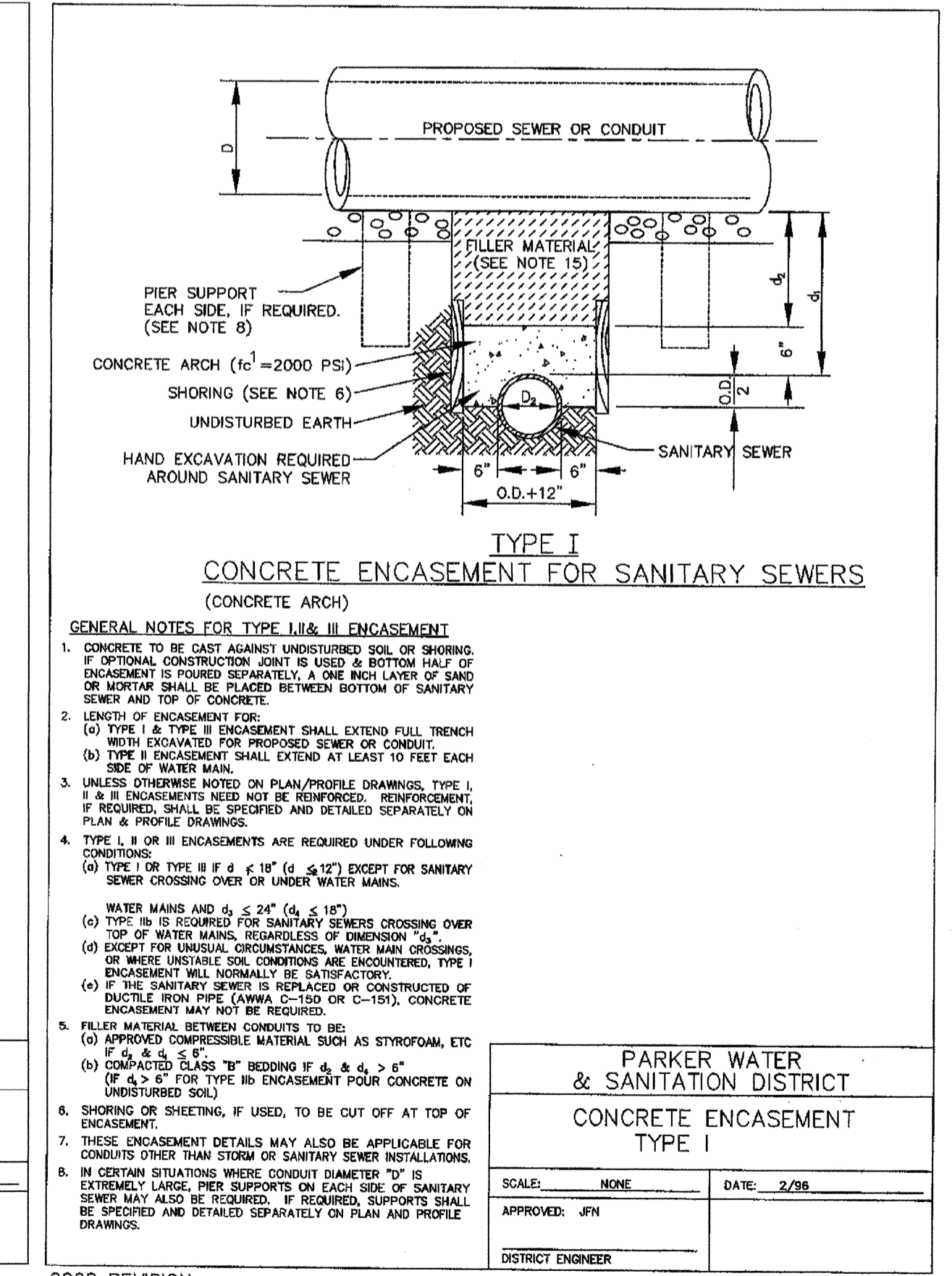
PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 5/98 2/00 1/06 10/16
 DIRECTOR OF ENGINEERING



PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 5/98 2/00 1/06 10/16
 DIRECTOR OF ENGINEERING



PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"
 SCALE: NONE DATE: 2/96
 APPROVED: PVR 5/98 2/00 1/06 10/16
 DIRECTOR OF ENGINEERING



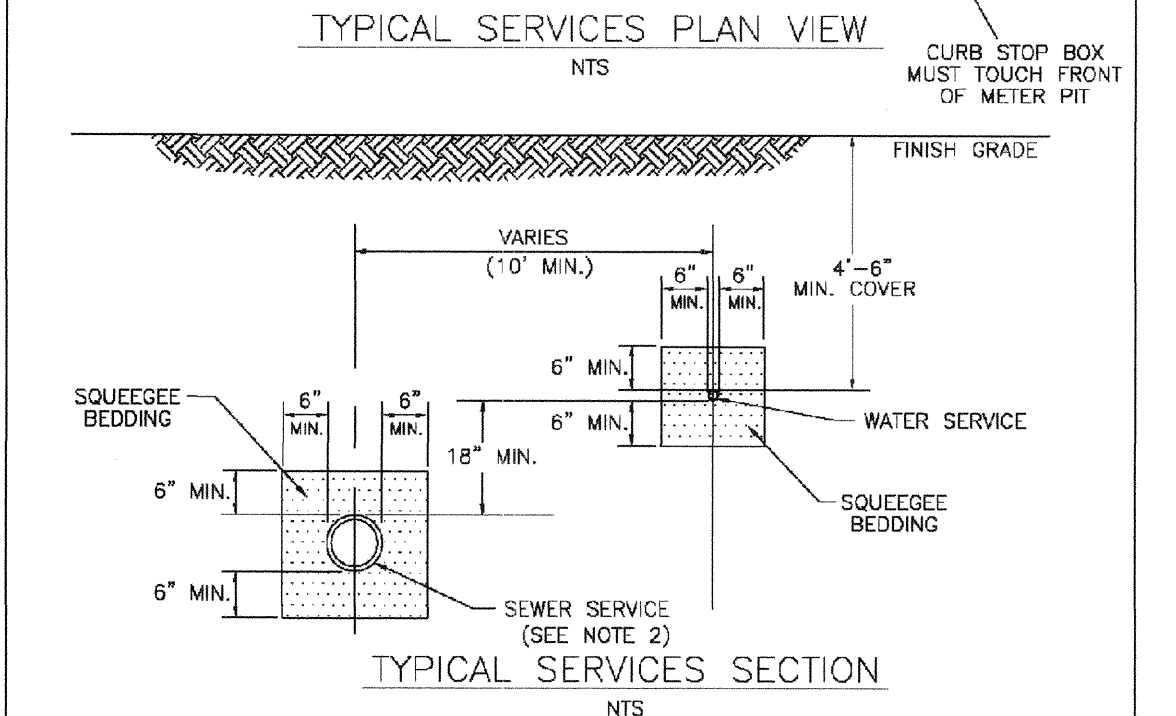
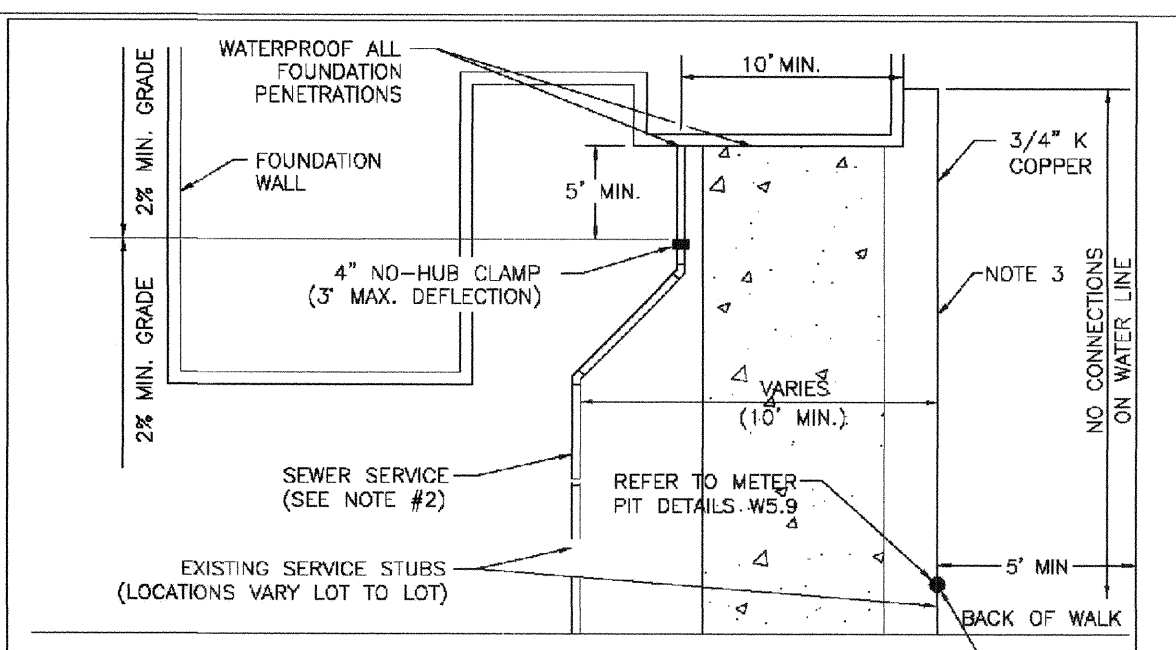
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASEMENT TYPE I
 SCALE: NONE DATE: 2/96
 APPROVED: JPN
 DISTRICT ENGINEER

- INSPECTION POLICY:**
1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
 2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
 3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE OR SERVICE FAILS, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.
 4. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
 5. THE CONTRACTOR SHALL LEAVE ALL PIPE 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.
 6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
 7. LOTS WITHOUT BUILDING ADDRESSES BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
 8. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION, UNLESS COORDINATED WITH DISTRICT INSPECTOR.

- INSTALLATION NOTES:**
- WATER**
1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING, (3/4" MIN.)
 2. APPROVED BEDDING TO BE SQUEEGEE.
 3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.
 4. A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 45-90° ANGLE. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.
 5. WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD. CRAWL SPACE REQUIRES CONTINUOUS COPPER WITH A 1" BURY.
 6. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT, IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
 7. MOVED CURB BOXES MUST BE INSPECTED BY PWSO PRIOR TO BURIAL.
 8. WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
 9. NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
 10. CURBSTOP BOXES AND METER PITS CANNOT BE IN DRIVEWAYS.
 11. ONLY 3/4" (JUMPER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
 12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"Y" FOR WATER SERVICES
 13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

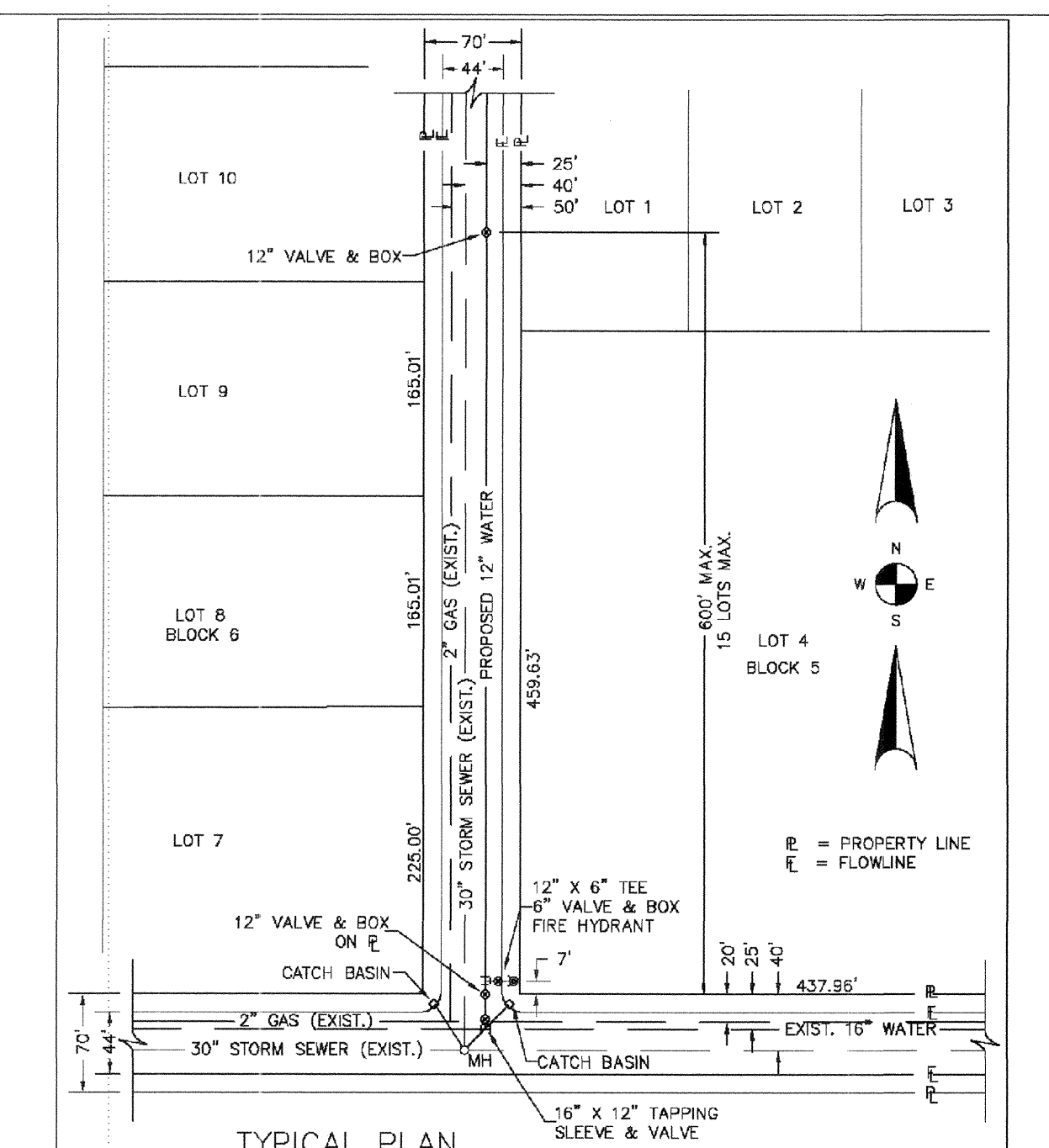
DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/04 10/16
DIRECTOR OF ENGINEERING	12/07 10/16

2016 REVISION SHEET W1.1



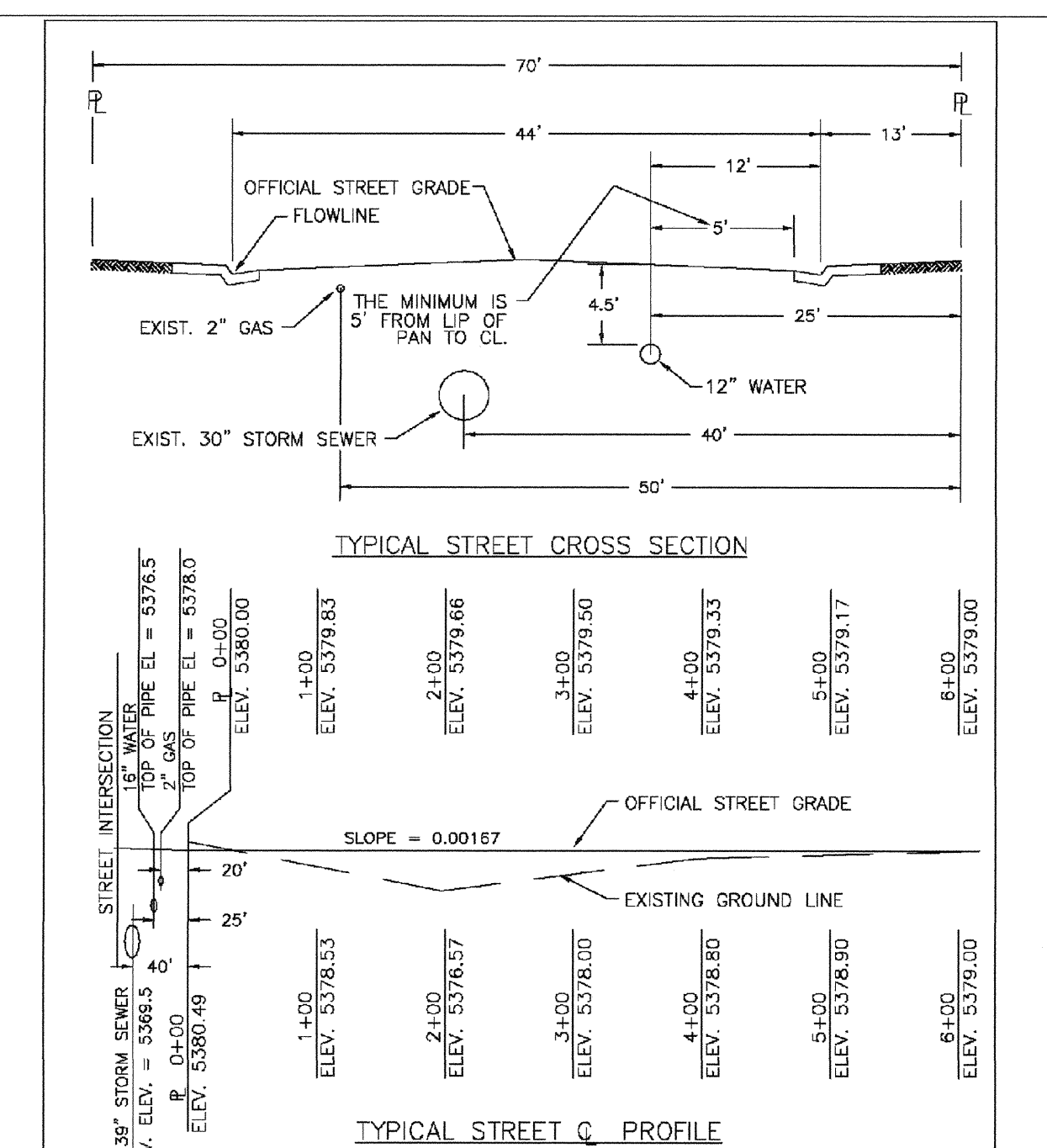
TYPICAL WATER SERVICES	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/04 10/16
DIRECTOR OF ENGINEERING	12/07 10/16

2016 REVISION SHEET W1.2



PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

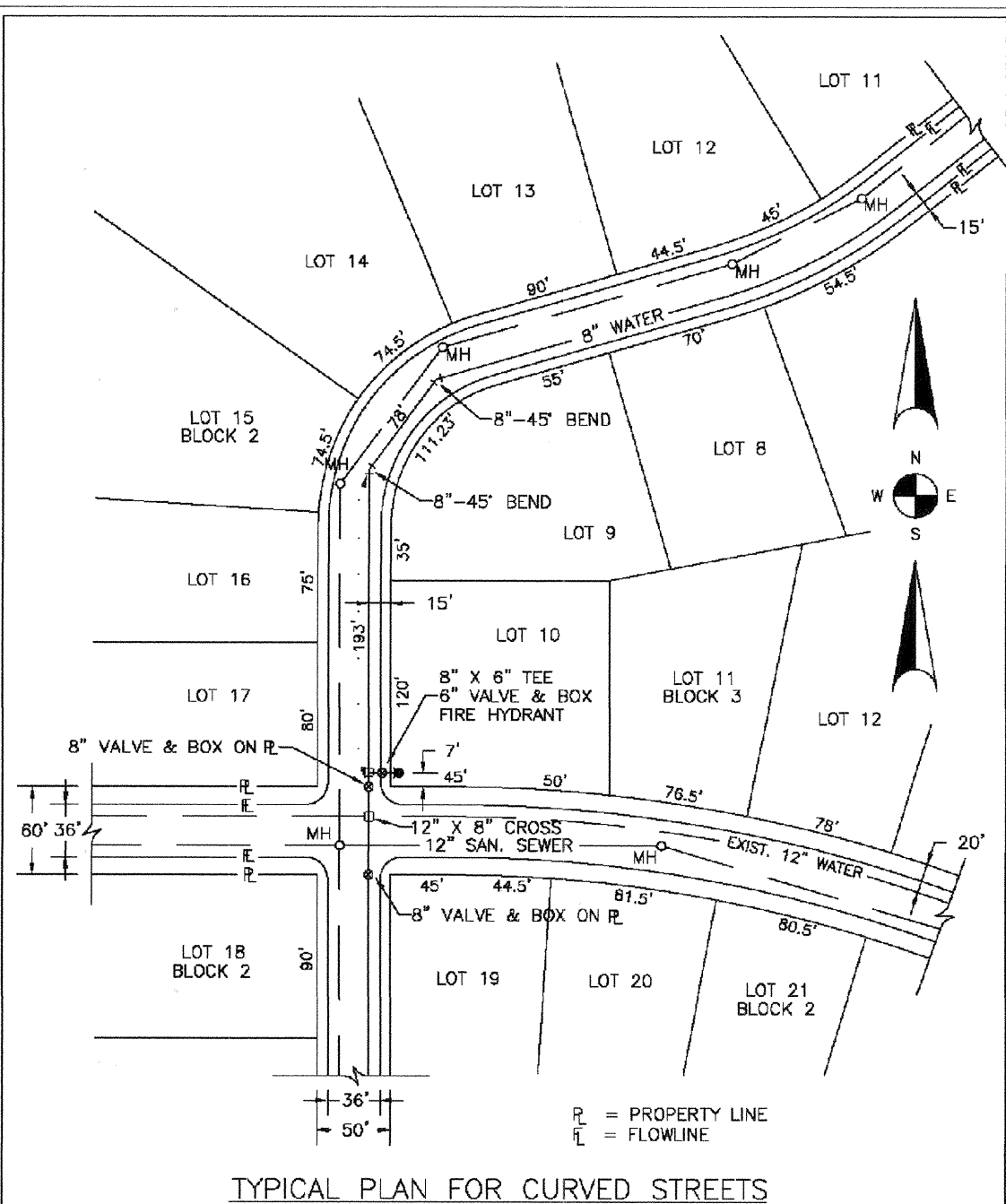
2016 REVISION SHEET W2.1



PARKER WATER & SANITATION DISTRICT TYPICAL STREET CROSS SECTION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

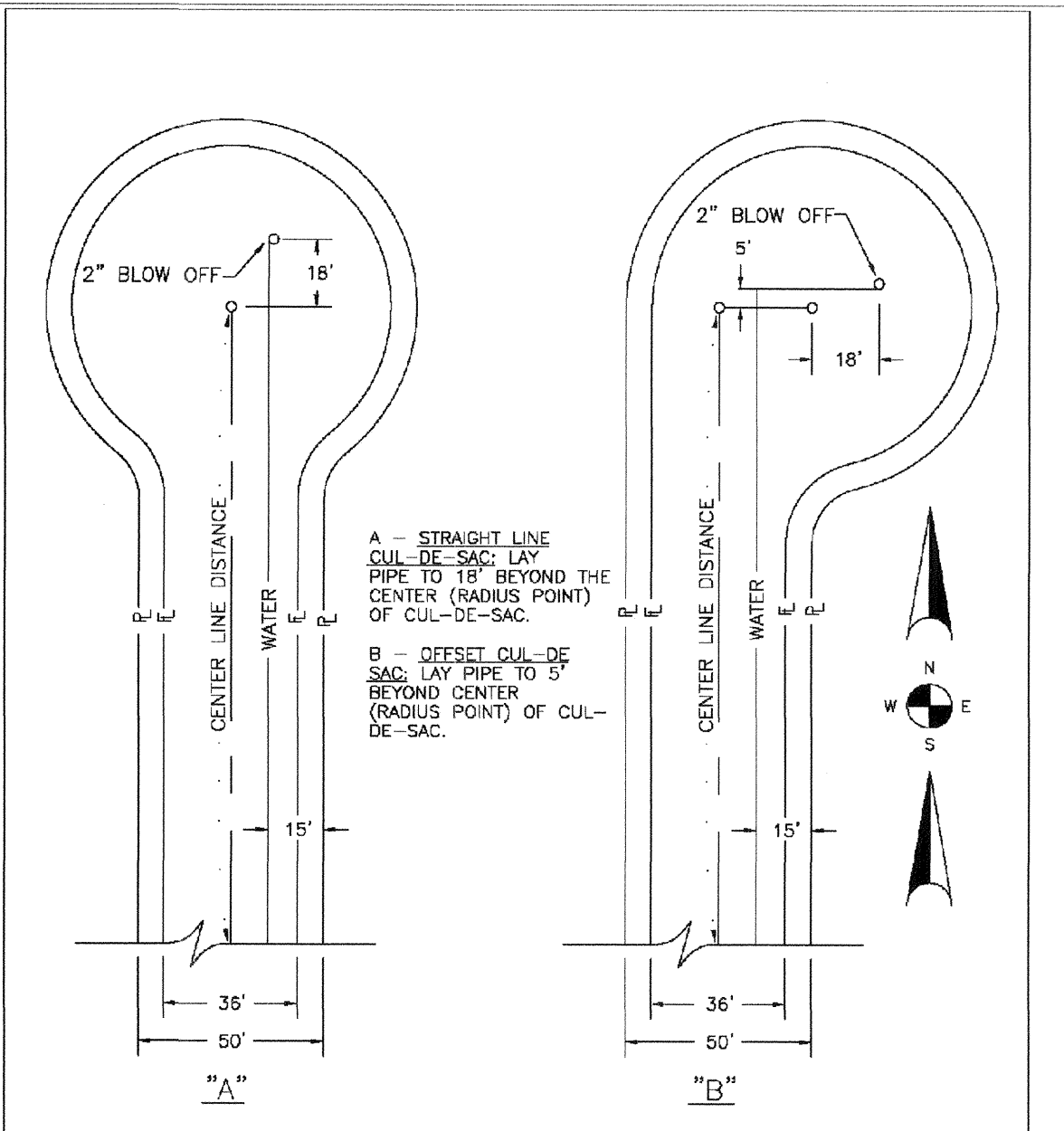
2016 REVISION SHEET W2.2

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT



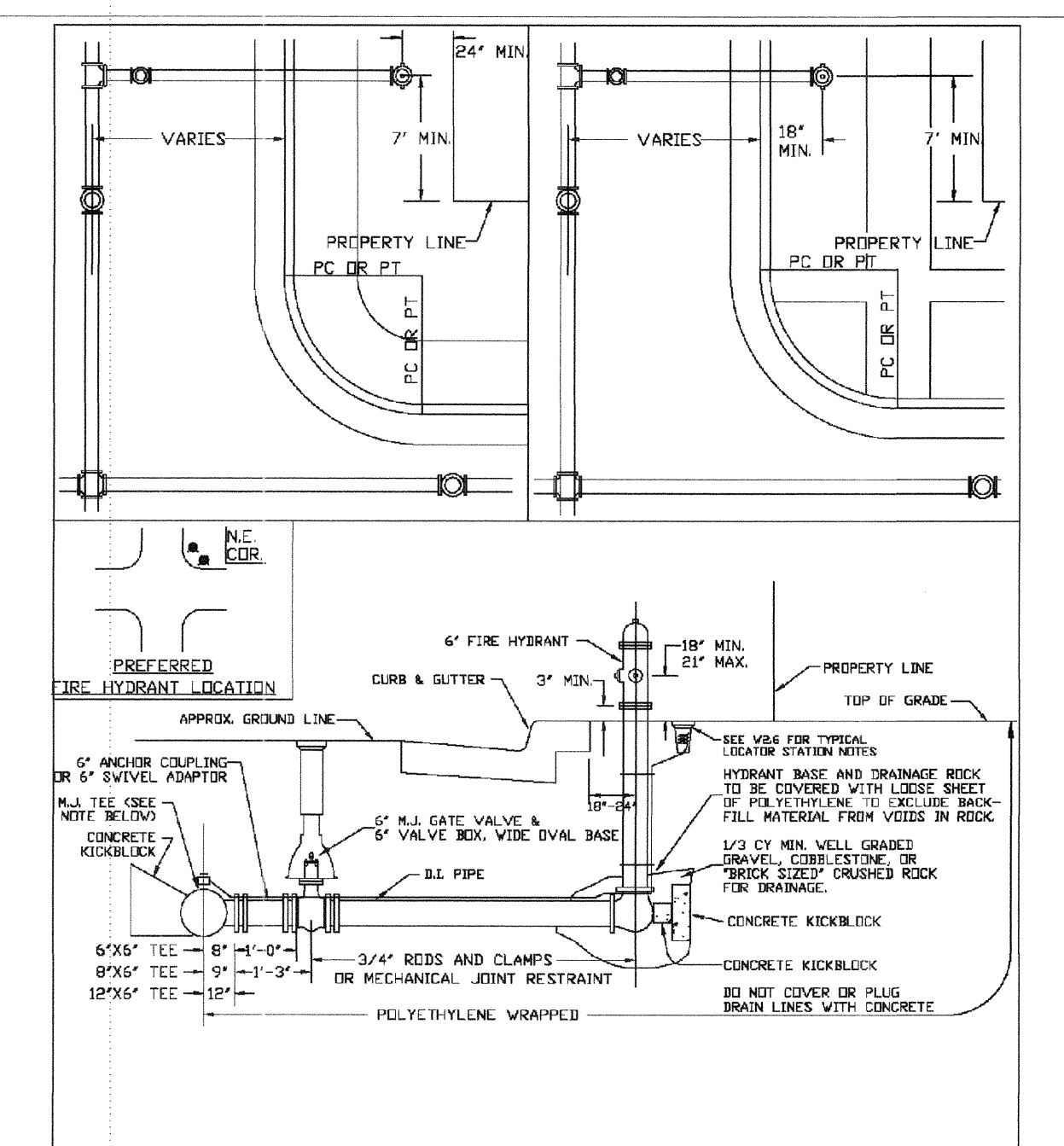
PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CURVED STREETS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION SHEET W2.3



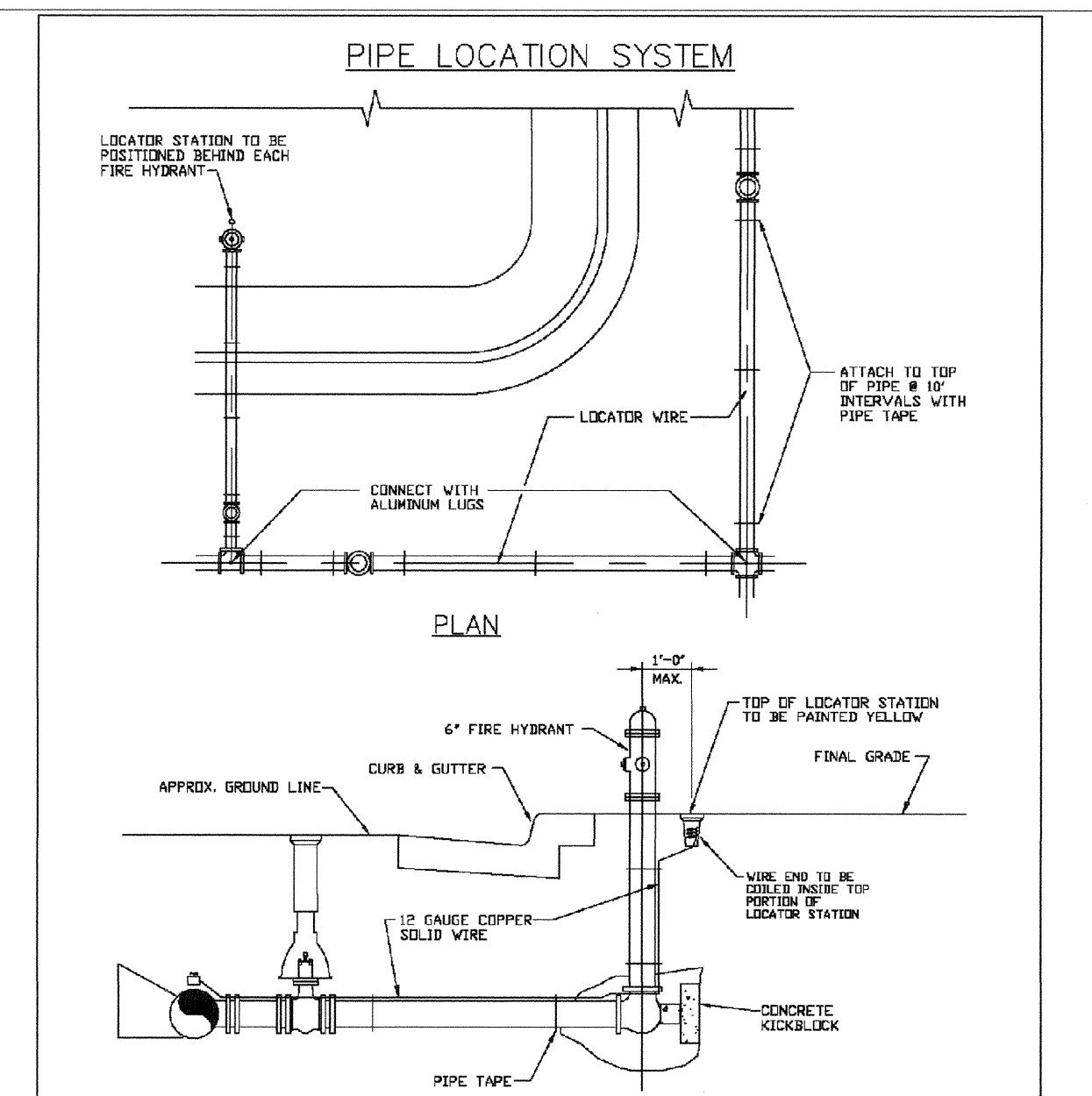
PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CUL-DE-SACS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION SHEET W2.4



PARKER WATER & SANITATION DISTRICT FIRE HYDRANTS LOCATION & INSTALLATION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/04 10/16
DIRECTOR OF ENGINEERING	12/07 10/16

2016 REVISION SHEET W2.5



PARKER WATER & SANITATION DISTRICT LOCATOR WIRE DETAILS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION SHEET W2.6

PROJECT SHESS BANCHUCAENGINEERING/SHEET 2/PARKER WATER AND SANITATION DISTRICT WATER DETAILS.DWG. CDDVA. 2/27/2018 9:42 PM

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UTILITY NOTIFICATION CENTER OF COLORADO

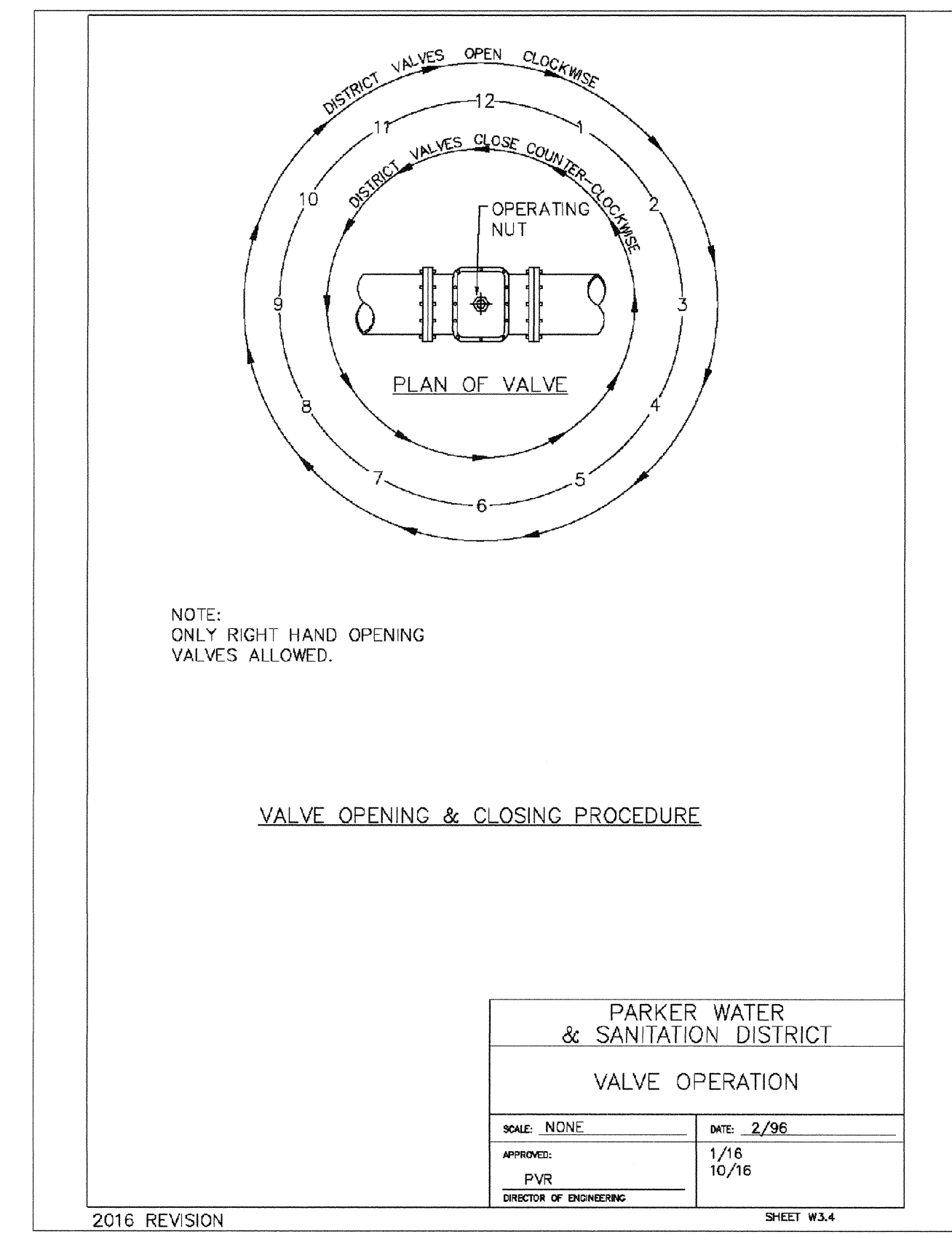
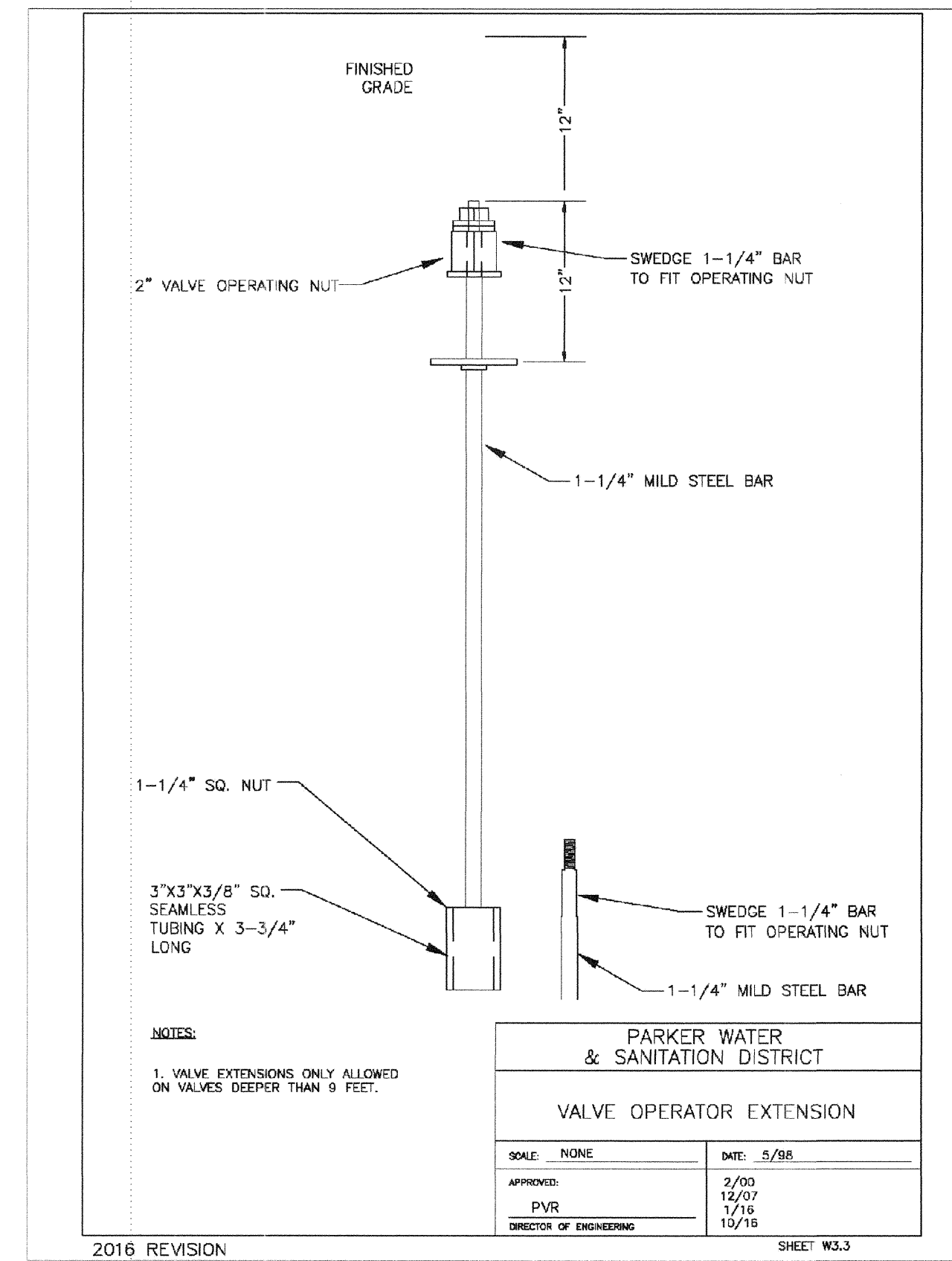
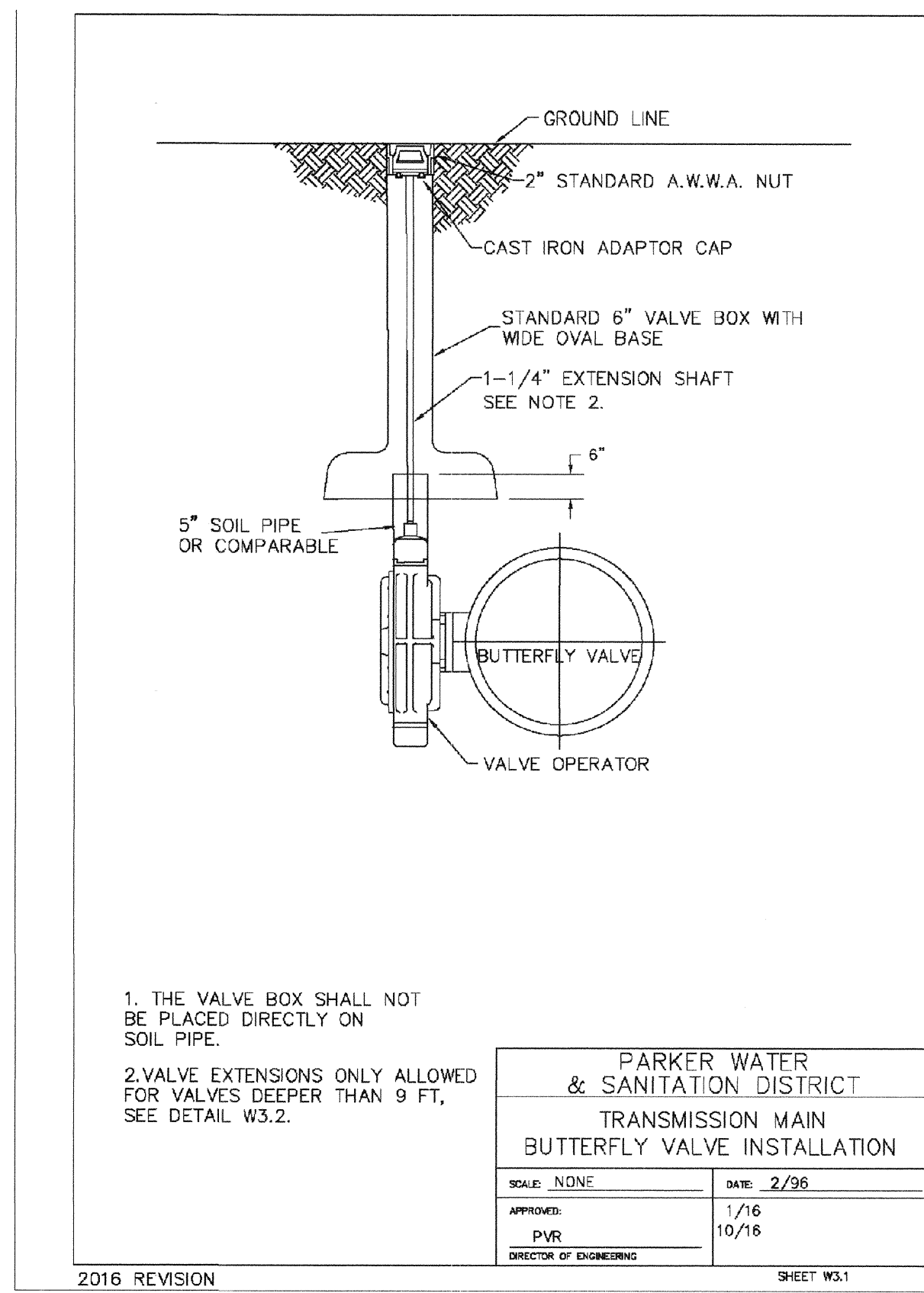
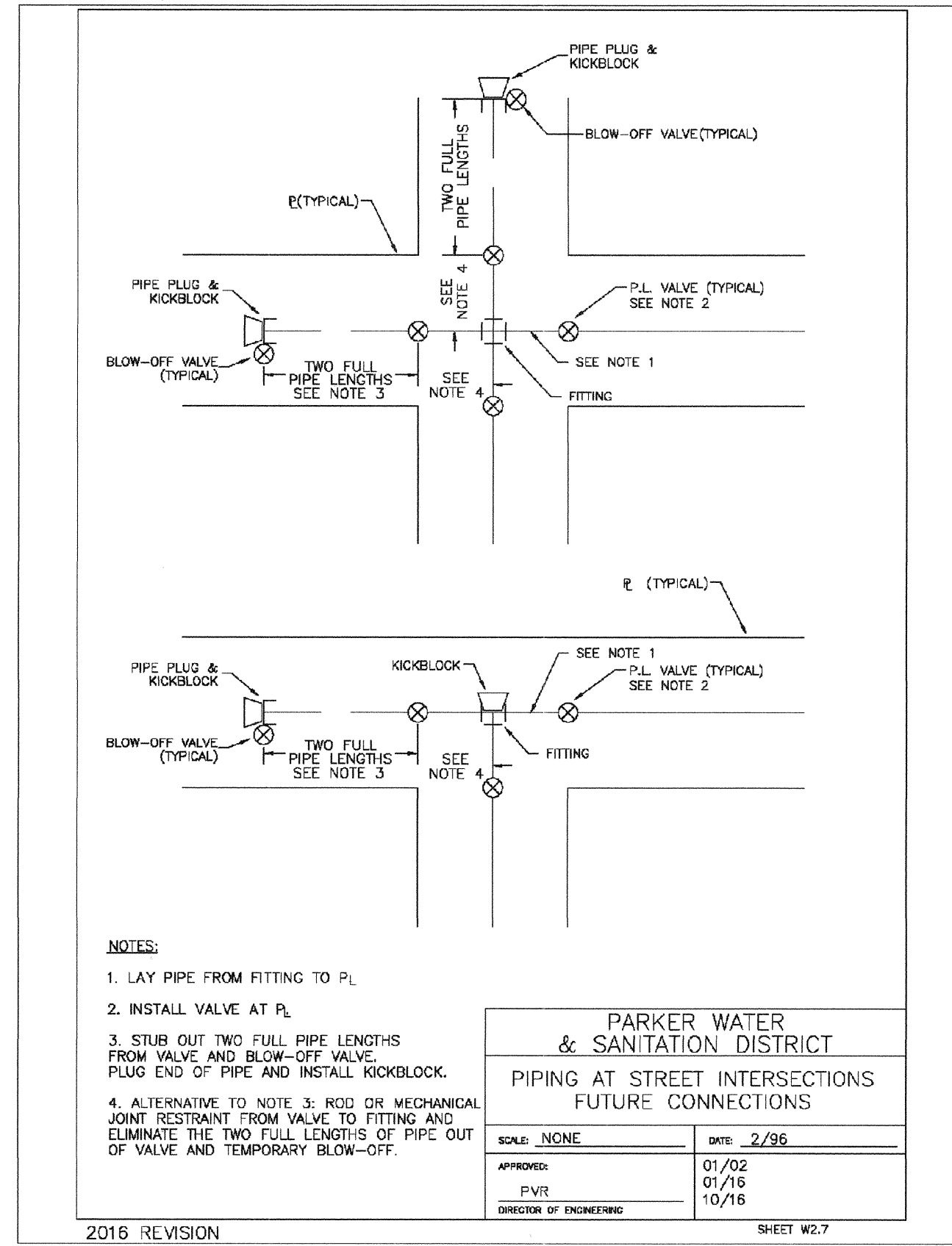
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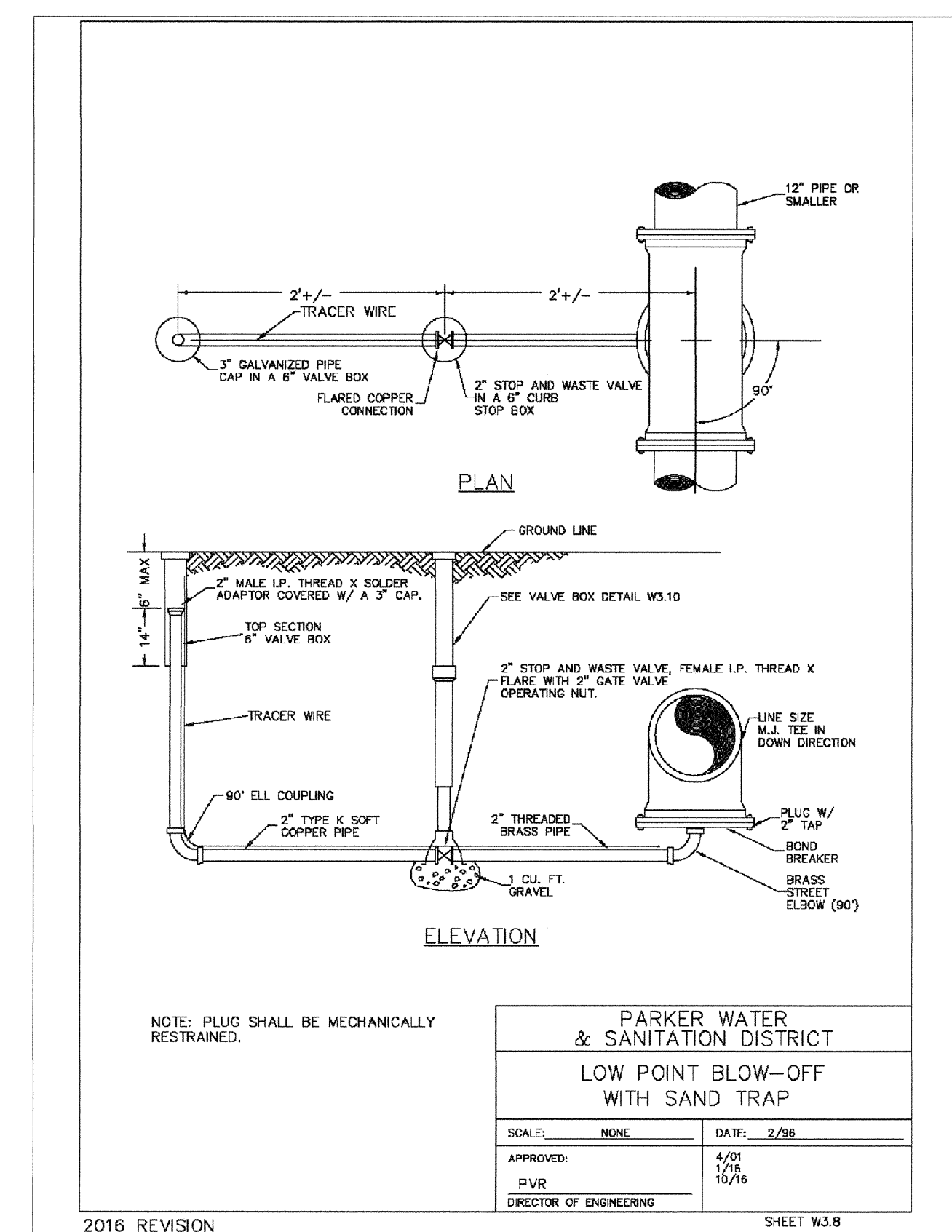
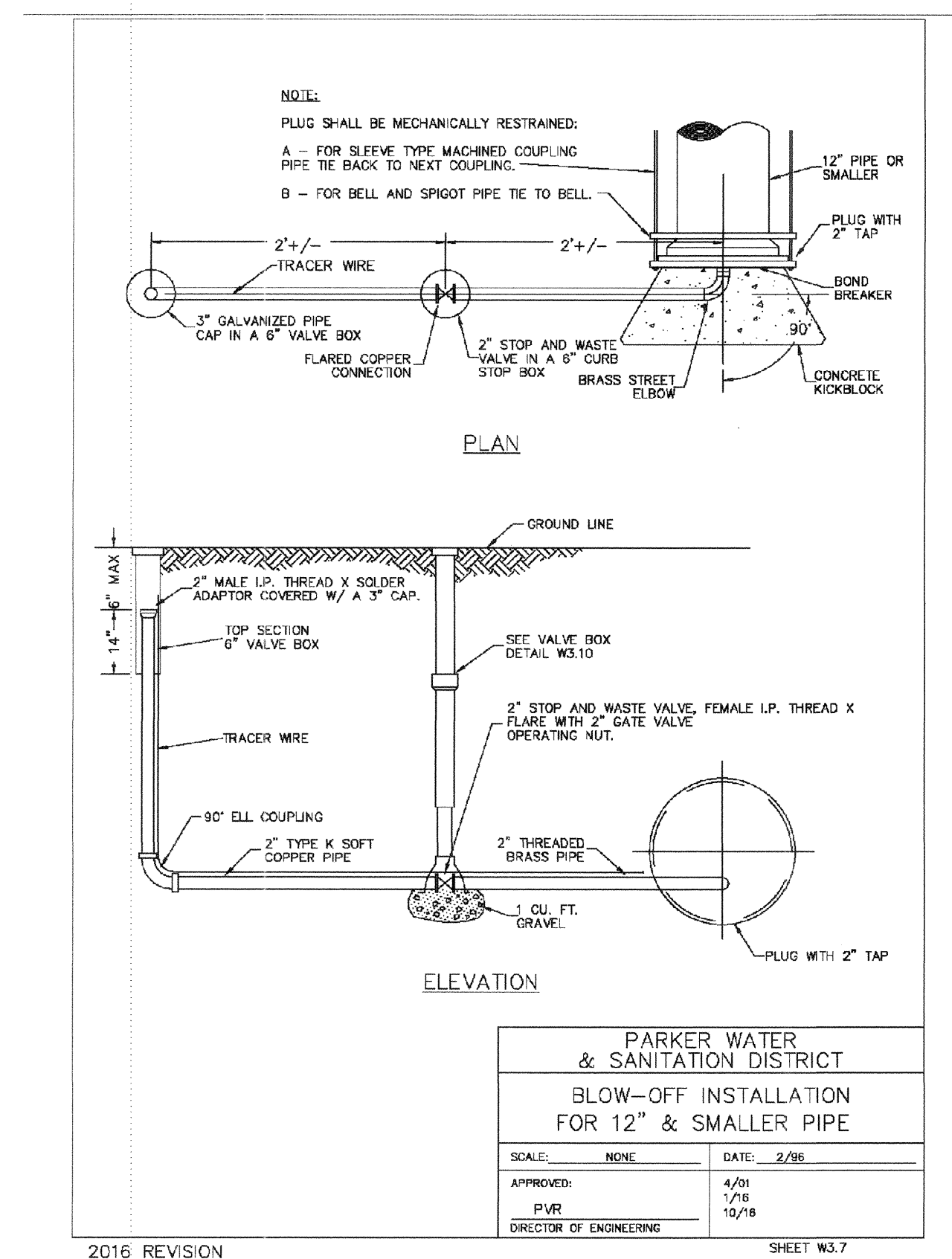
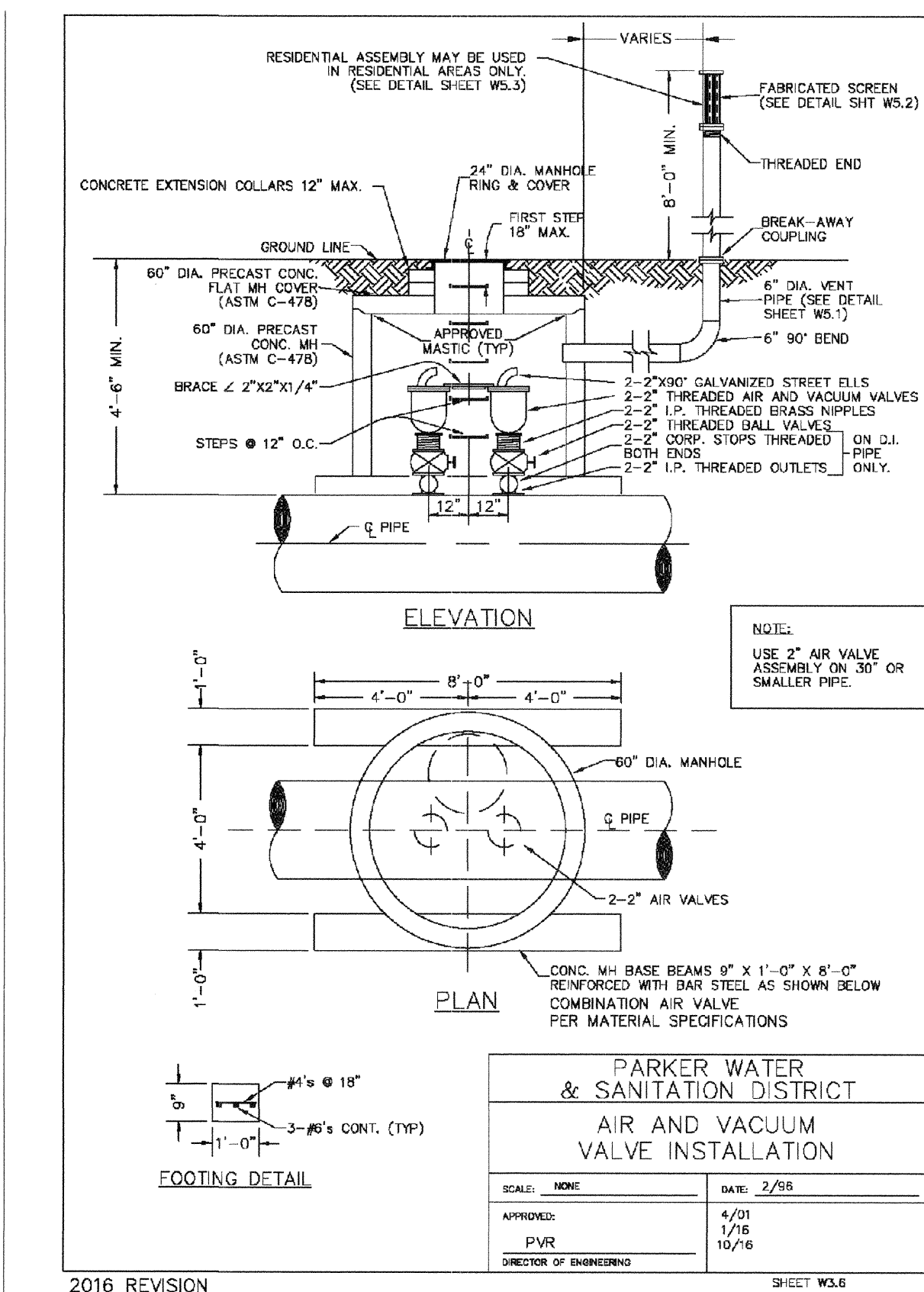
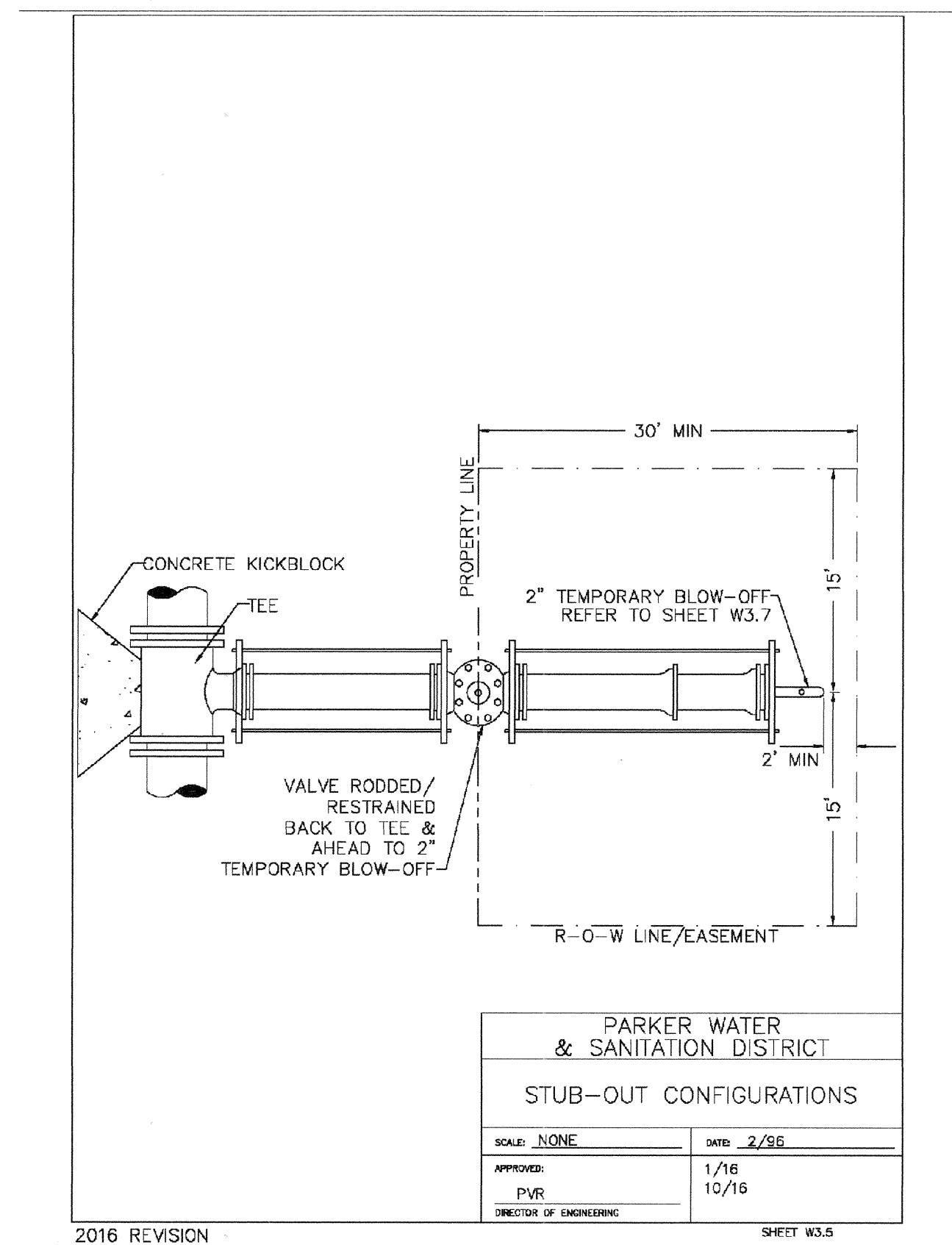
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SHEET NUMBER 22

MECHANICAL JOINT RESTRAINT

NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES
4"	2	2	11.12	9.5	7.00	0.88
6"	4	4	13.37	11.75	9.15	1.00
8"	6	6	15.62	14.00	11.20	1.00
10"	8	8	17.88	16.25	13.30	1.25
12"	10	10	20.13	18.50	15.40	1.50

NOTES:
1. DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.

**PARKER WATER & SANITATION DISTRICT
MECHANICAL JOINT RESTRAINT DETAILS**

SCALE: NONE DATE: 2/96
APPROVED: PVR 2/00 1/16
DIRECTOR OF ENGINEERING 10/16

2016 REVISION SHEET W3.17

11-1/4", 22-1/2", 45" & 90" BENDS DEAD END

TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

PIPE SIZE	11-1/4"	22-1/2"	45"	90"	TEE OR DEAD END
4"	1.00	1.00	1.00	2.00	1.00
6"	1.00	1.00	1.00	2.00	1.00
8"	1.00	1.00	1.00	2.00	1.00
10"	1.00	1.00	1.00	2.00	1.00
12"	1.00	1.00	1.00	2.00	1.00
14"	1.00	1.00	1.00	2.00	1.00
16"	1.00	1.00	1.00	2.00	1.00
18"	1.00	1.00	1.00	2.00	1.00
20"	1.00	1.00	1.00	2.00	1.00
24"	1.00	1.00	1.00	2.00	1.00

NOTES:
1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND KICKBLOCKED.
2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
3. BASED ON 150 PSI PIPE PRESSURE PLUS WATER HAMMER = 120 PSI.
4. 4" AND 6" WATER HAMMER = 120 PSI.
5. 8" WATER HAMMER = 110 PSI.
6. 10", 12" AND 14" WATER HAMMER = 70 PSI.
7. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

**PARKER WATER & SANITATION DISTRICT
CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION**

SCALE: NONE DATE: 2/96
APPROVED: PVR 4/01 1/16
DIRECTOR OF ENGINEERING 10/16

2016 REVISION SHEET W3.18

24" DIAMETER RING AND COVER

HALF PLAN

TYPICAL CROSS SECTION

NOTES:
1. Coating Specifications: ASTM A-48 With a Minimum Tensile Strength of 28 KSI (Class 20).
2. A) Coating To Be Applied in Asphalt Base Pits (Or Approved Coat).

**PARKER WATER & SANITATION DISTRICT
24" DIAMETER RING AND COVER**

SCALE: NONE DATE: 6/05
APPROVED: PVR 1/16 10/16
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2016 REVISION SHEET W3.19

ACCESS MANHOLE ASSEMBLY

ACCESS MANHOLE

ACCESS MANHOLE AND AIR VALVE ASSEMBLY

NOTES:
1. USE 2" AIR VALVE ASSEMBLY ON 30" OR SMALLER PIPE.
2. FOR VENT PIPE DETAILS SEE SHEET W3.1
3. RESIDENTIAL ASSEMBLY MAY BE USED IN RESIDENTIAL AREAS ONLY (SEE DETAIL SHEET W3.3)
4. BREAK-AWAY COUPLING
5. 6"-0" MIN.

**PARKER WATER & SANITATION DISTRICT
ACCESS MANHOLE ASSEMBLY**

SCALE: NONE DATE: 2/96
APPROVED: PVR 4/01 1/16 10/16
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2016 REVISION SHEET W3.20

APPROVED
APR 02 2019
PARKER WATER AND SANITATION DISTRICT

STANDARD TRENCH SECTION

STANDARD TRENCH SECTION

STREET CUT PATCH

TABLE:

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-0"	2'-0"
6"	1'-0"	2'-0"
8"	1'-0"	2'-0"
10"	1'-0"	2'-0"
12"	1'-0"	2'-0"
14"	1'-0"	2'-0"
16"	1'-0"	2'-0"
18"	1'-0"	2'-0"
20"	1'-0"	2'-0"
24"	1'-0"	2'-0"

**PARKER WATER & SANITATION DISTRICT
TYPICAL TRENCH SECTION PIPE PROTECTION**

SCALE: NONE DATE: 2/96
APPROVED: PVR 2/00 1/16
DIRECTOR OF ENGINEERING 10/16

2016 REVISION SHEET W3.1

PIPE BEDDING

(c) **Installation of Bedding and Pipe:** After completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed on the trench bottom for support under the pipe. Bedding shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bed and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is adjusted for line and grade, and the joint is made, the bedding material shall be carefully placed and tamped under the haunches of the pipe and in the previously dug bell holes.

Tamping is herein defined as the act of placing approved bedding material under the haunches of the pipe, paying particular attention to voids, bell holes, and sling holes. The purpose of tamping is to ensure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved bedding may then be installed to the groundline. See Chapter 2 of these Standards for backfill and compaction of backfill.

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet W3.1 of the Standard Details for a typical trench cross section.

(d) **Bedding Material:** The bedding material shall be a clean well-graded sand or squeegee sand and shall conform to the following limits when tested by means of laboratory tests:

Well-Graded Sand for 24-inch or larger diameter

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 10	70-100
No. 20	35-65
No. 40	20-50
No. 60	10-30
No. 100	5-15
No. 200	0-5

Squeegee Sand for use with 20-inch or smaller

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 200	0-3

If approved by the District, fines from the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the above schedule, or any other detrimental substance, shall be placed closer to the pipe than six inches.

(5) Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

**PARKER WATER & SANITATION DISTRICT
PIPE BEDDING**

SCALE: NONE DATE: 2/96
APPROVED: PVR 5/98 1/16 10/16
DIRECTOR OF ENGINEERING 10/16

2016 REVISION SHEET W3.2

WATERLINE ENCASEMENT

PLAN VIEW

PROFILE

TYPICAL SECTION

NOTES:
1. ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE I PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-7% ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".
2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
3. ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.
4. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.
5. PIPE SHALL BE WRAPPED WITH FELT LAYER BEFORE ENCASING.

**PARKER WATER & SANITATION DISTRICT
WATERLINE ENCASEMENT**

SCALE: NONE DATE: 5/98
APPROVED: PVR 1/16 10/16
DIRECTOR OF ENGINEERING 10/16

2016 REVISION SHEET W3.3

PERPENDICULAR CROSSING BORED CROSSINGS BENEATH CONDUITS

PLAN FOR PERPENDICULAR CROSSING

PLAN FOR ANGLE CROSSING

PROFILE

FORMULA FOR FINDING C:

$$C = B + (2)(1.5) \left[\frac{B}{2} + A + F \right]$$

FORMULA FOR FINDING L:

$$L = \frac{C}{\sin \phi}$$

NOTES:
1. FINAL APPROVAL OF BORING AND CASING METHOD AND MATERIALS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION.

**PARKER WATER & SANITATION DISTRICT
BORED CROSSINGS BENEATH CONDUITS**

SCALE: NONE DATE: 2/96
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2016 REVISION SHEET W3.4

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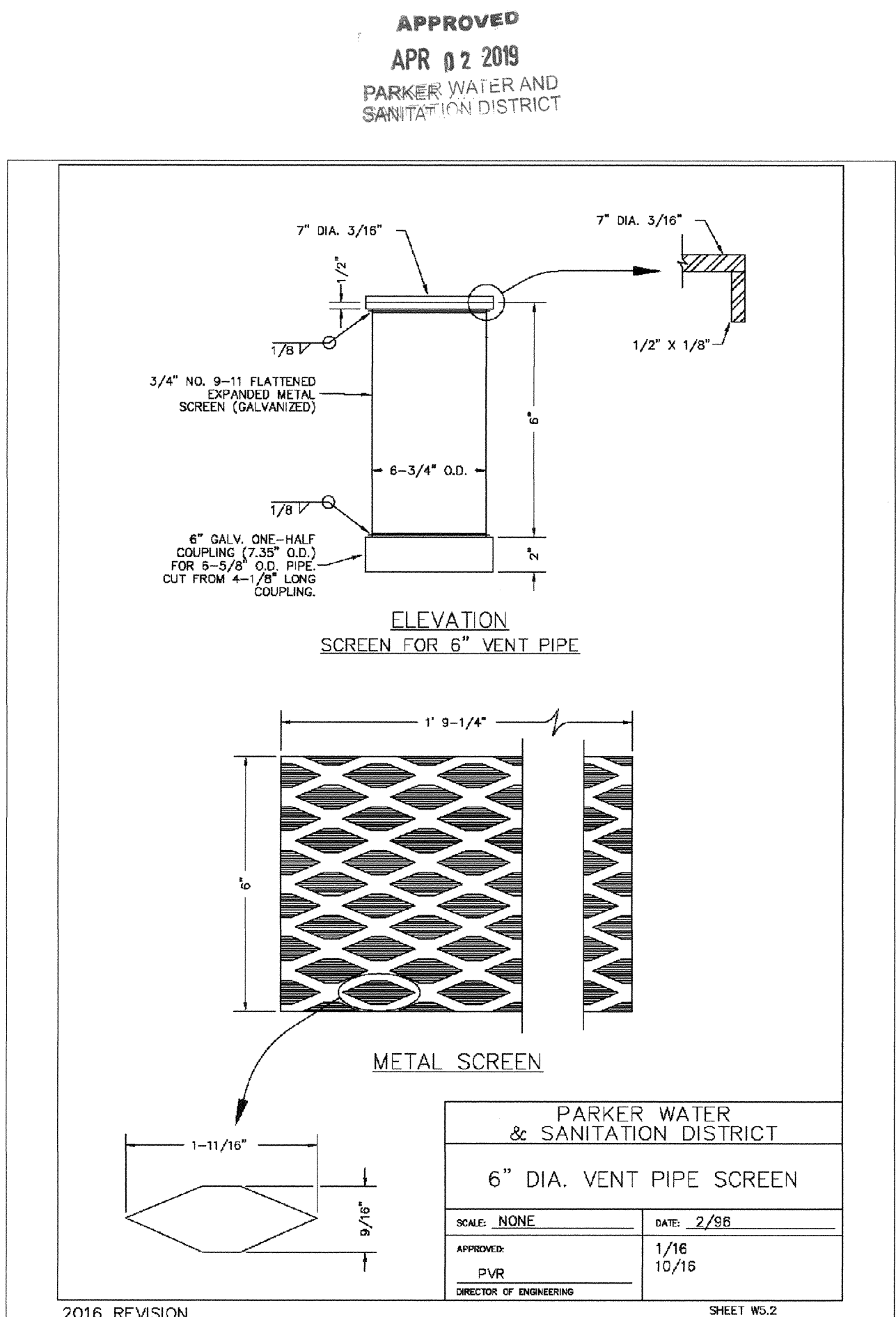
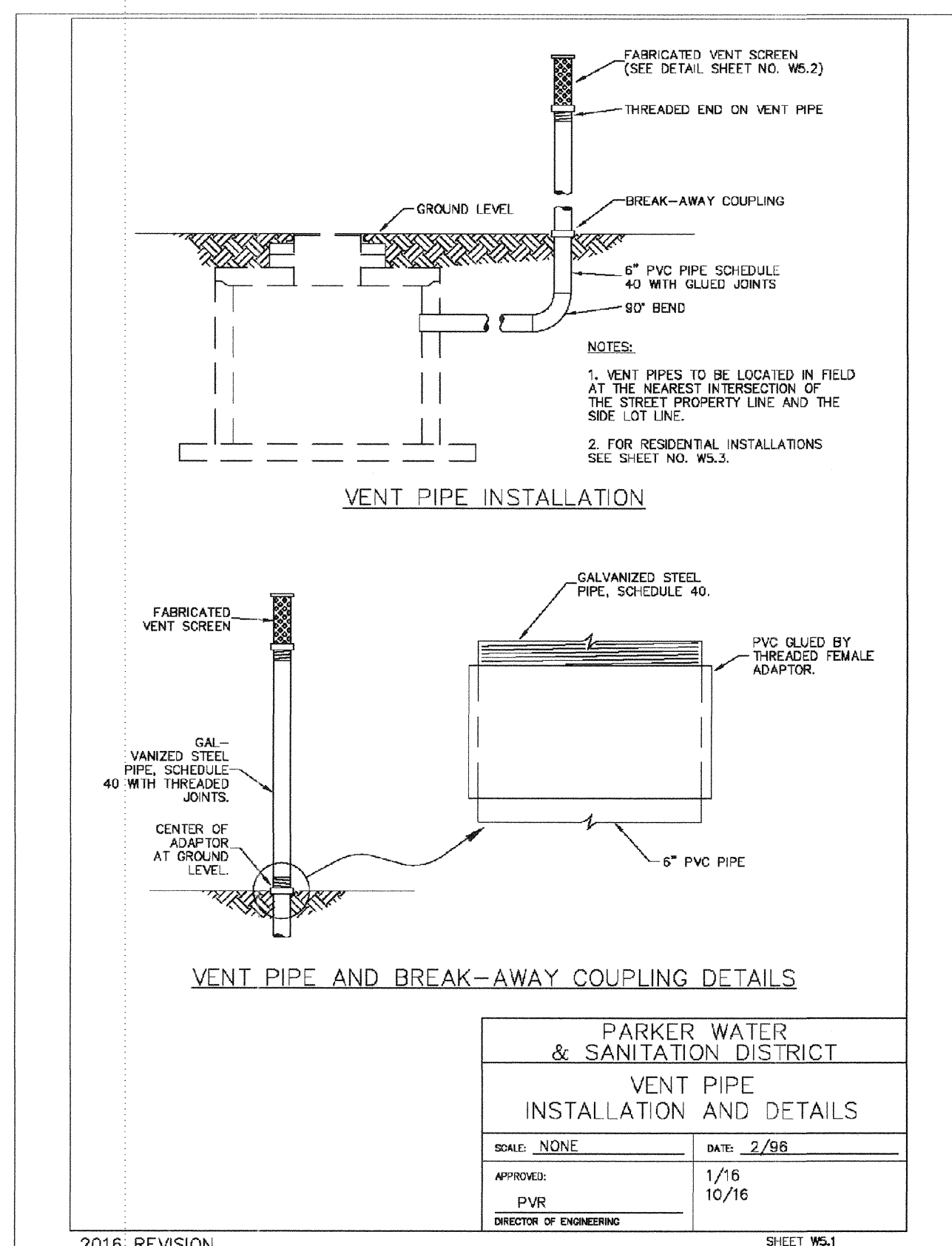
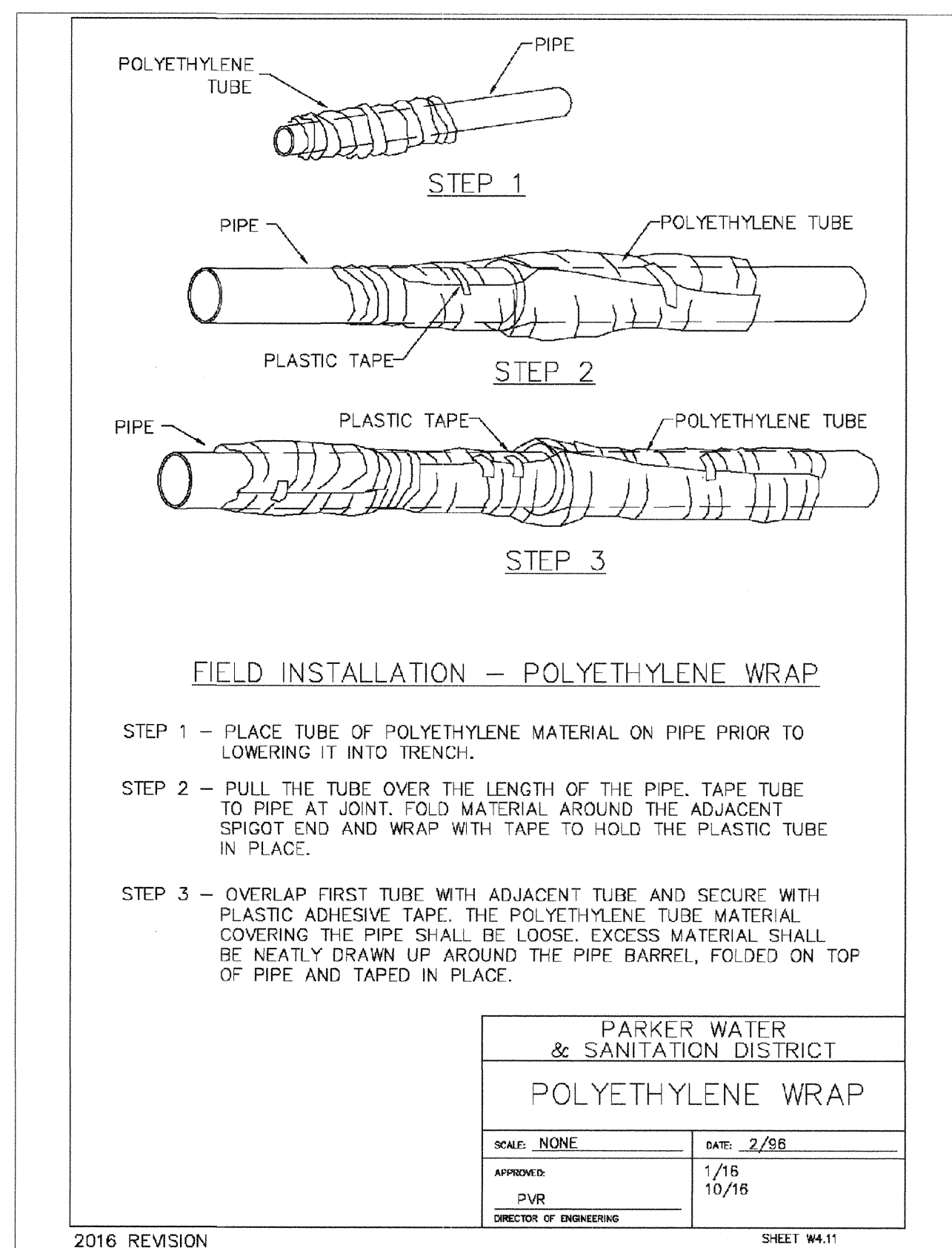
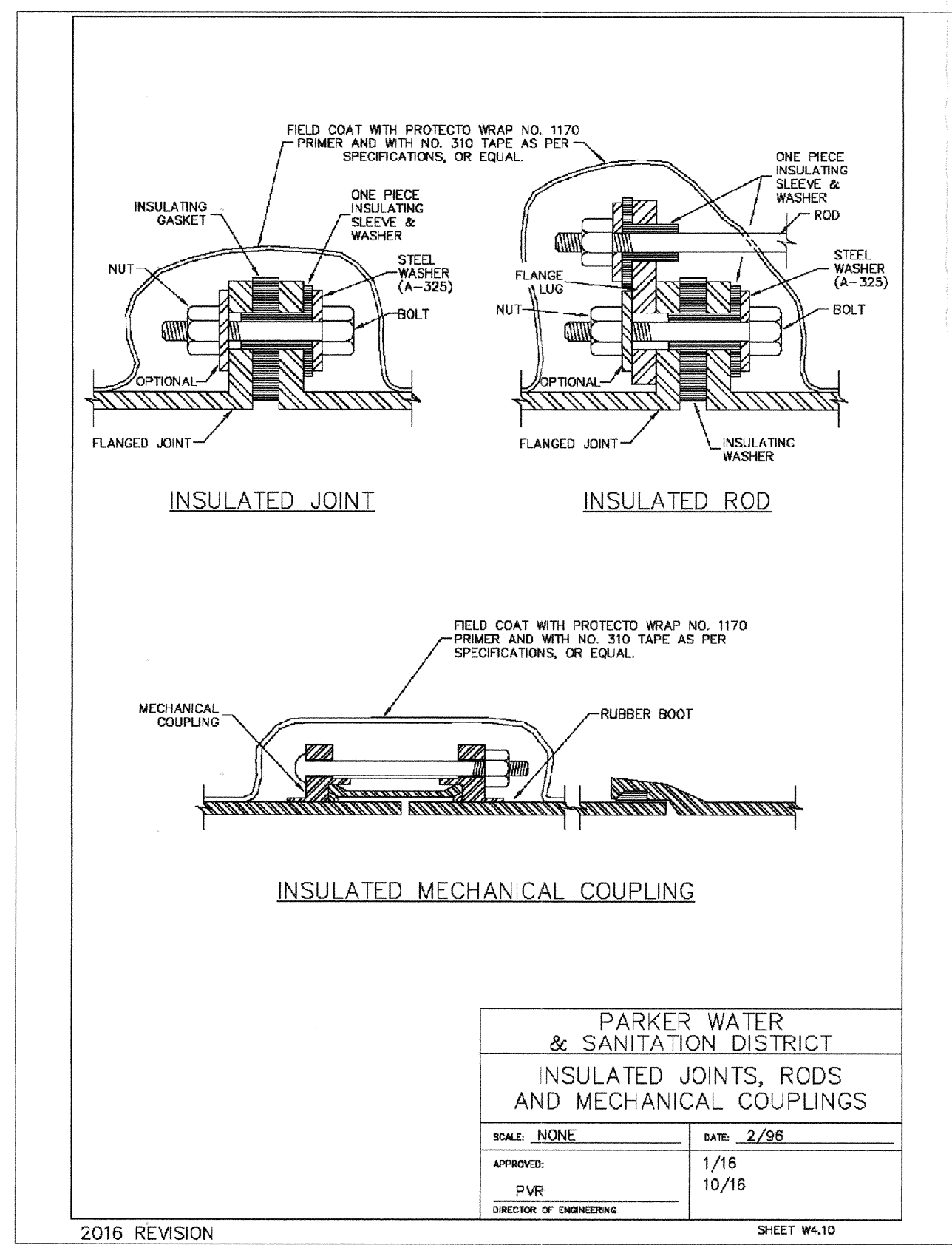
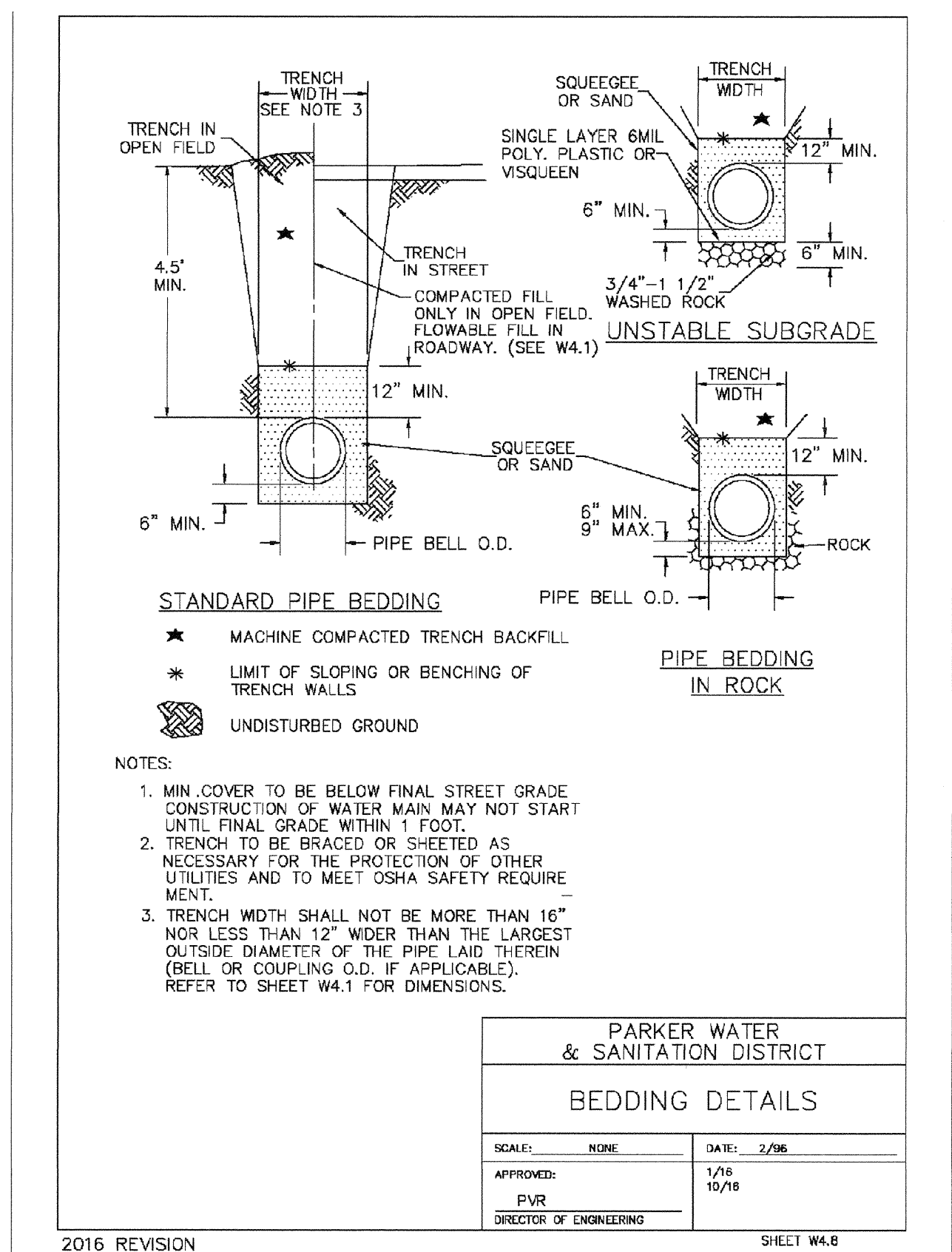
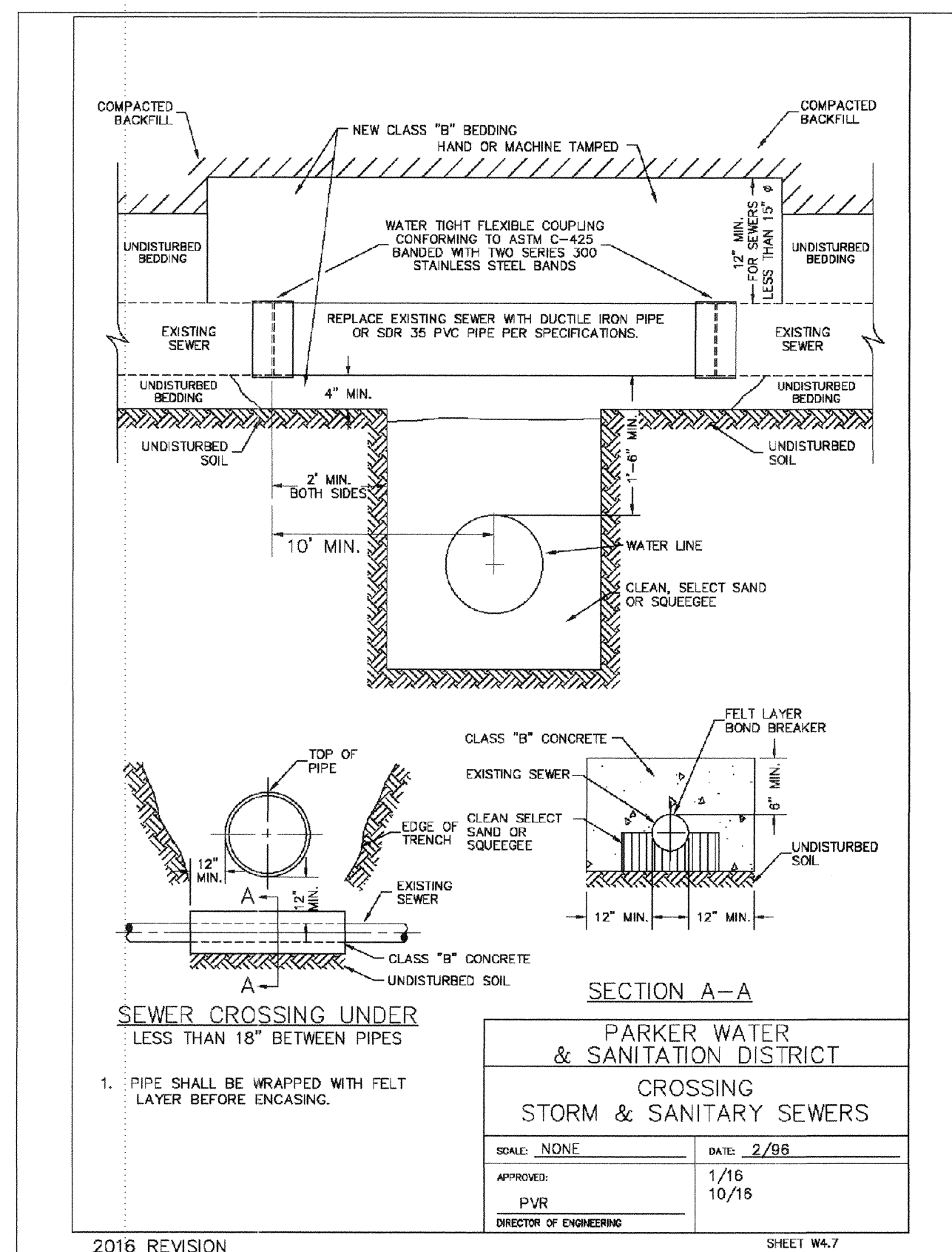
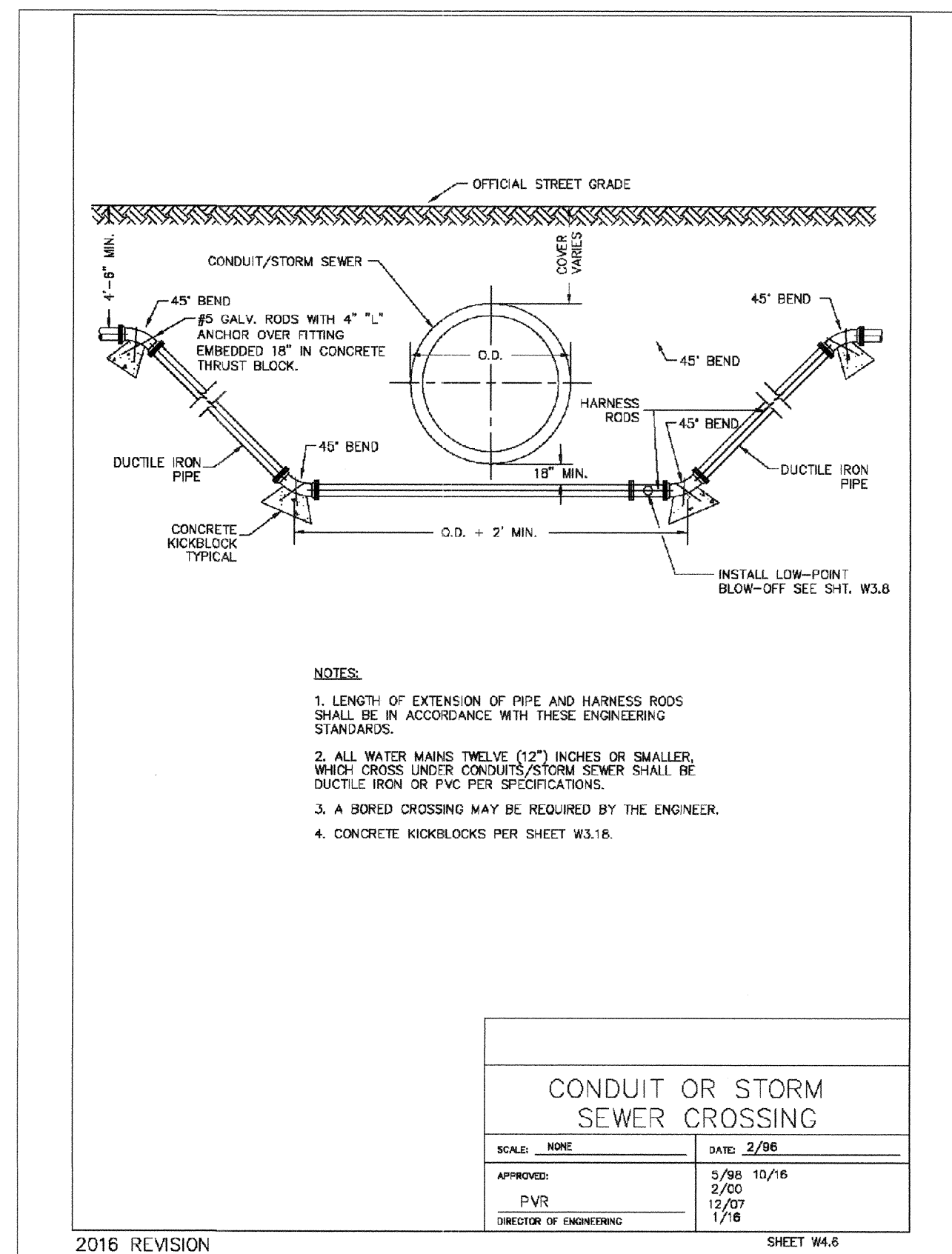
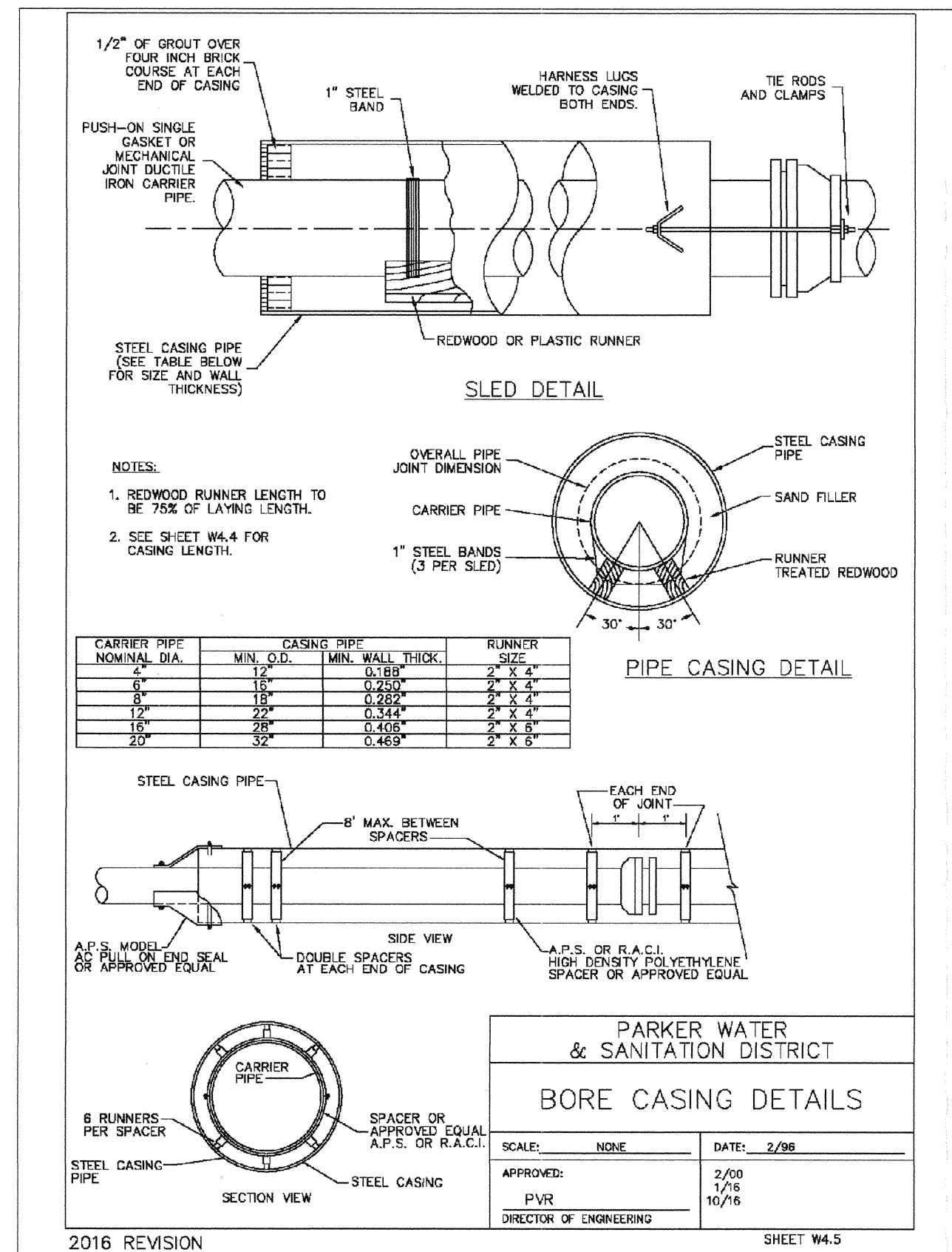
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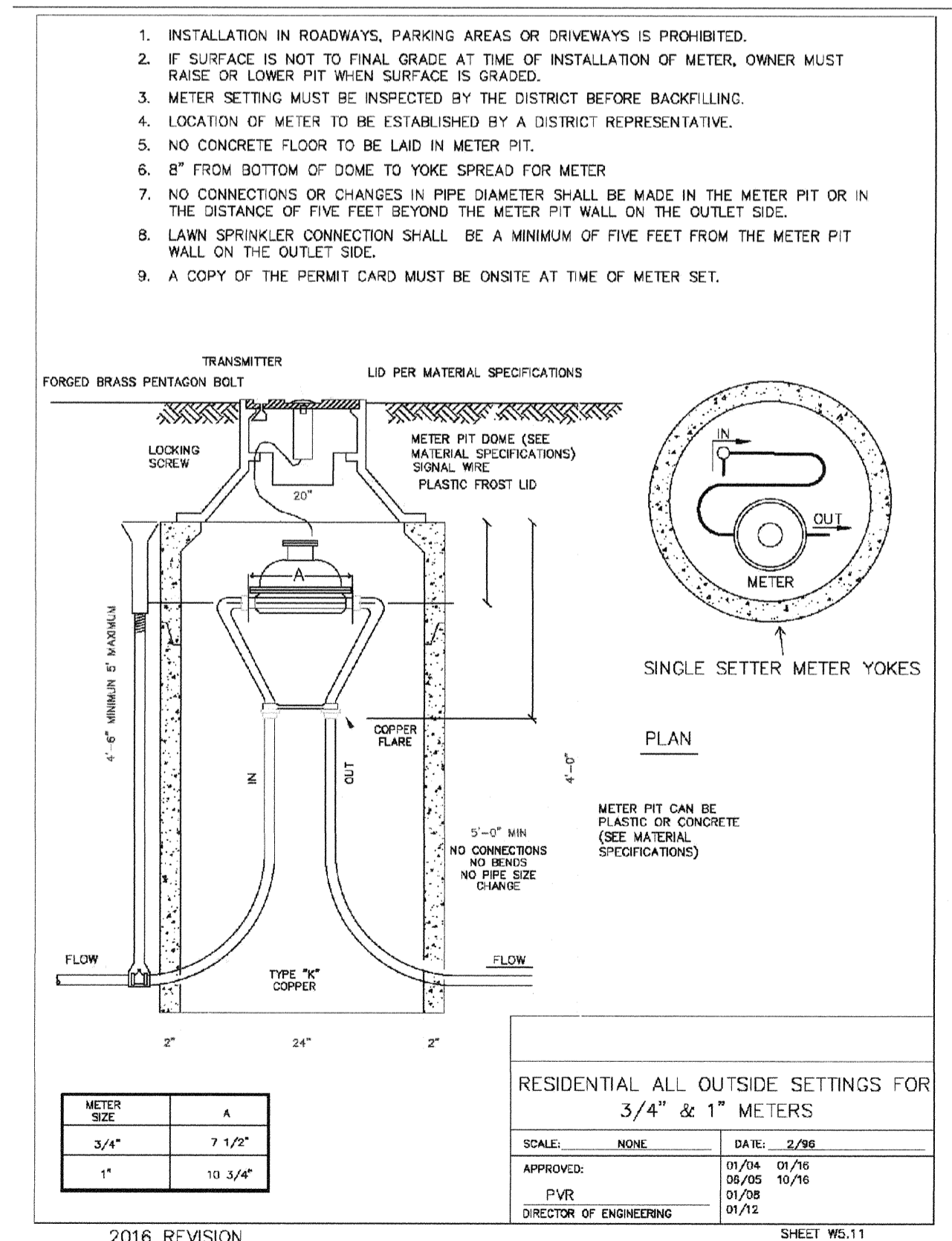
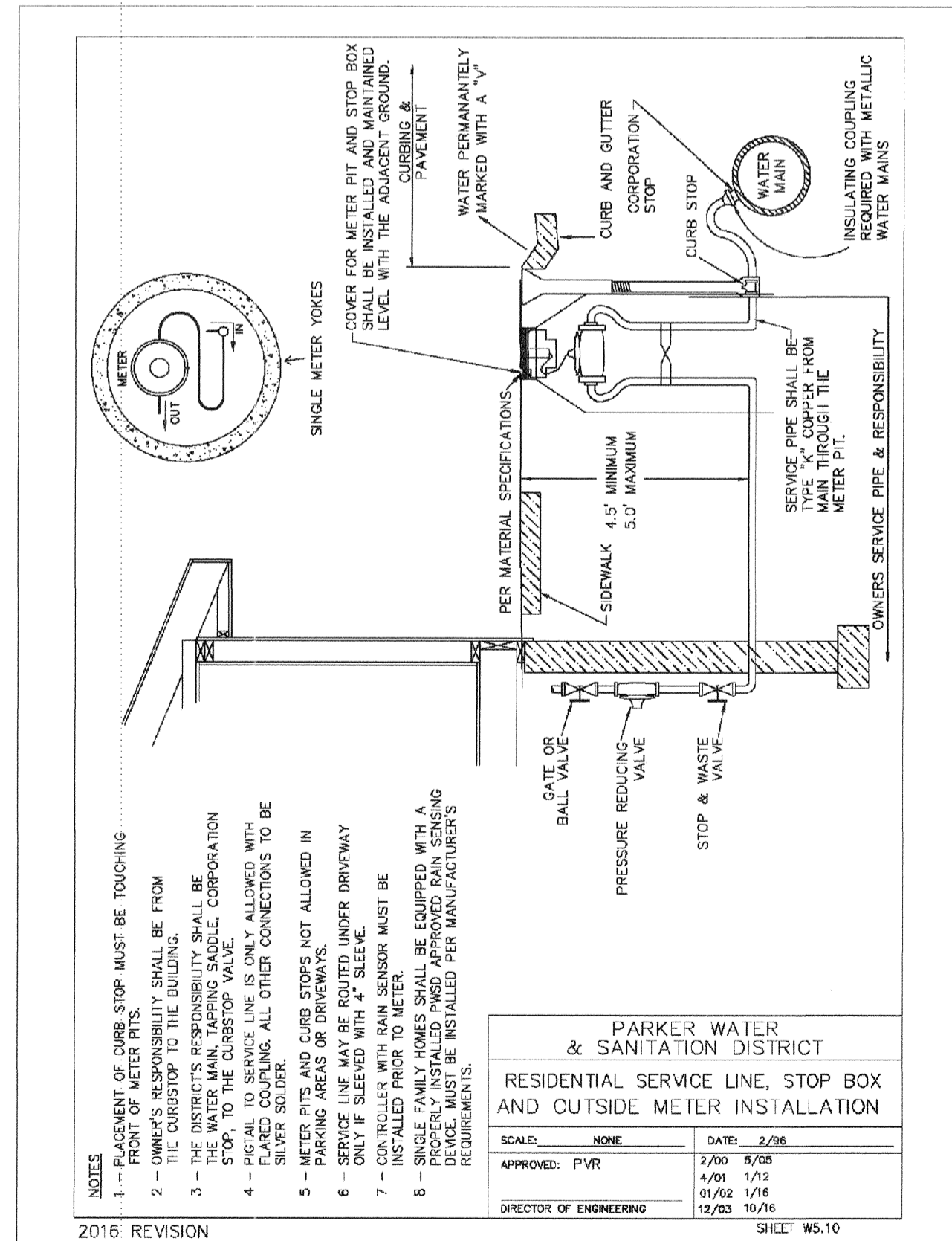
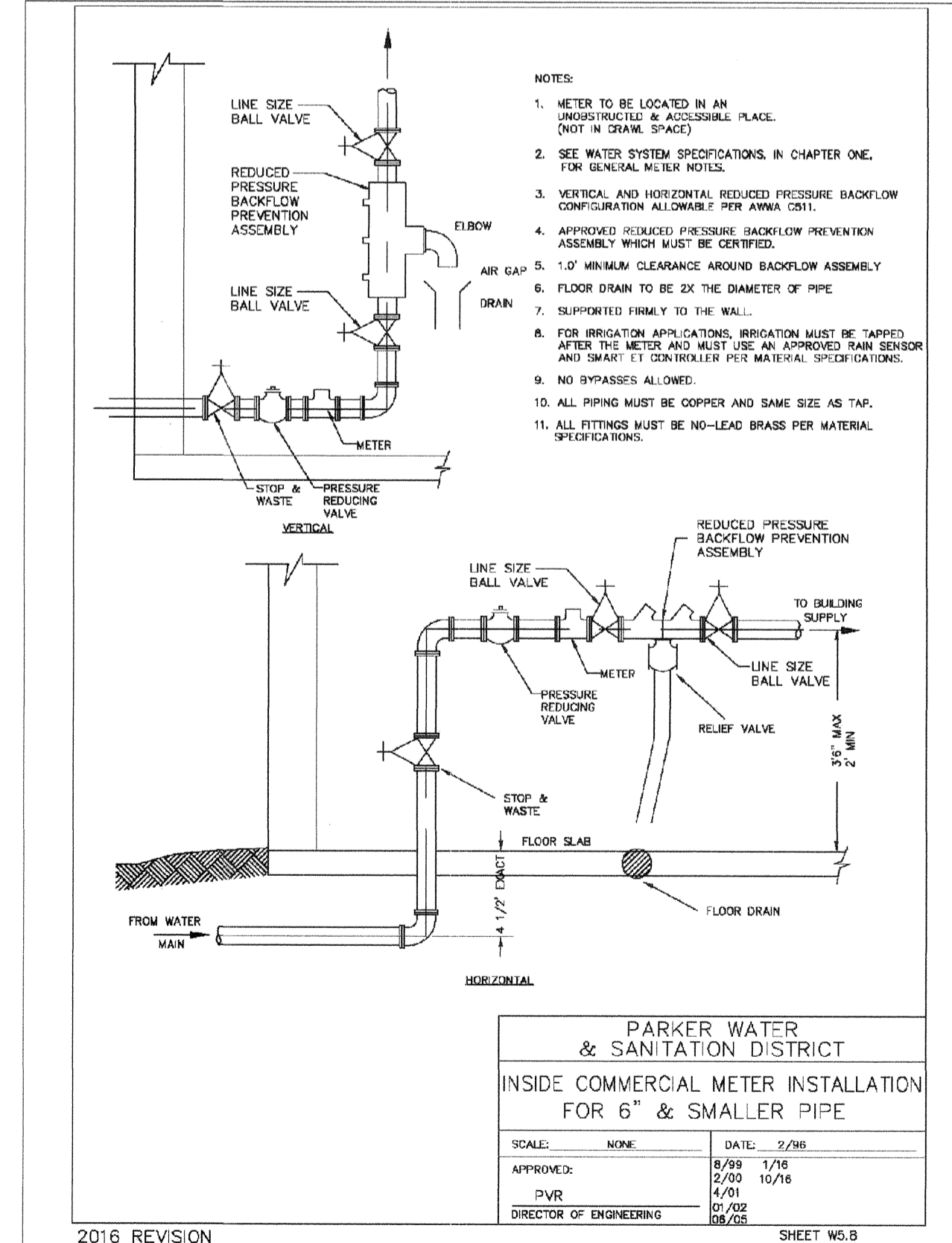
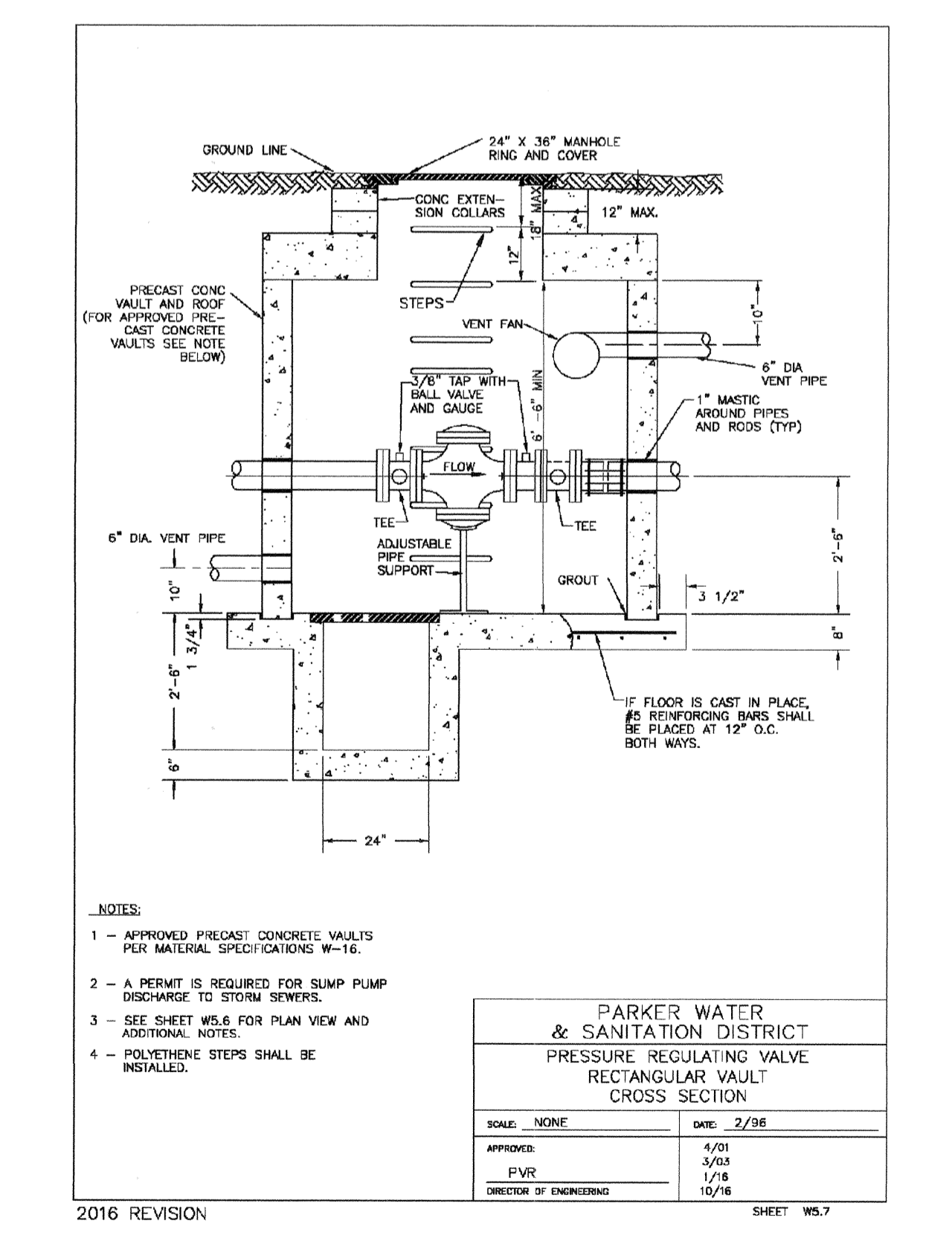
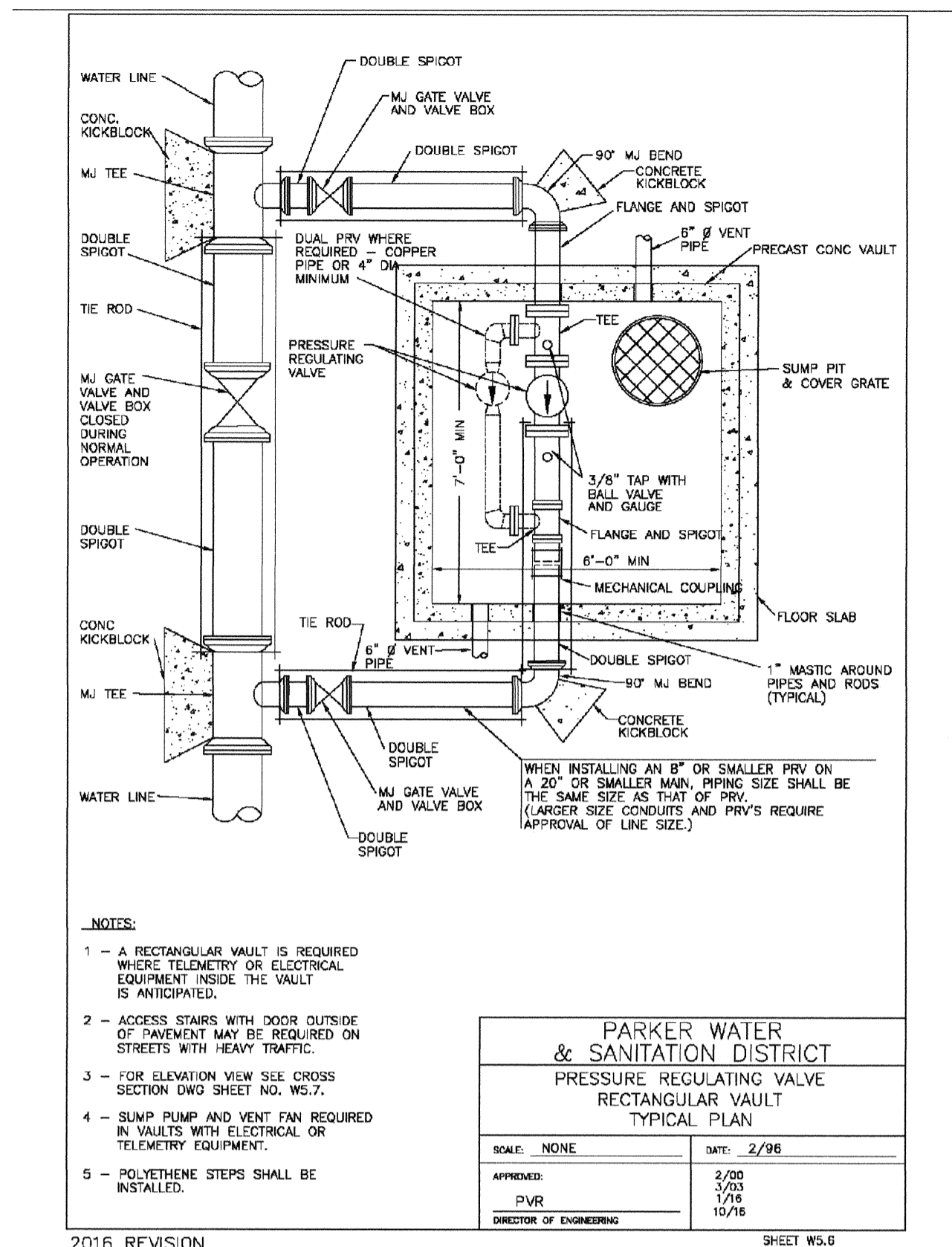
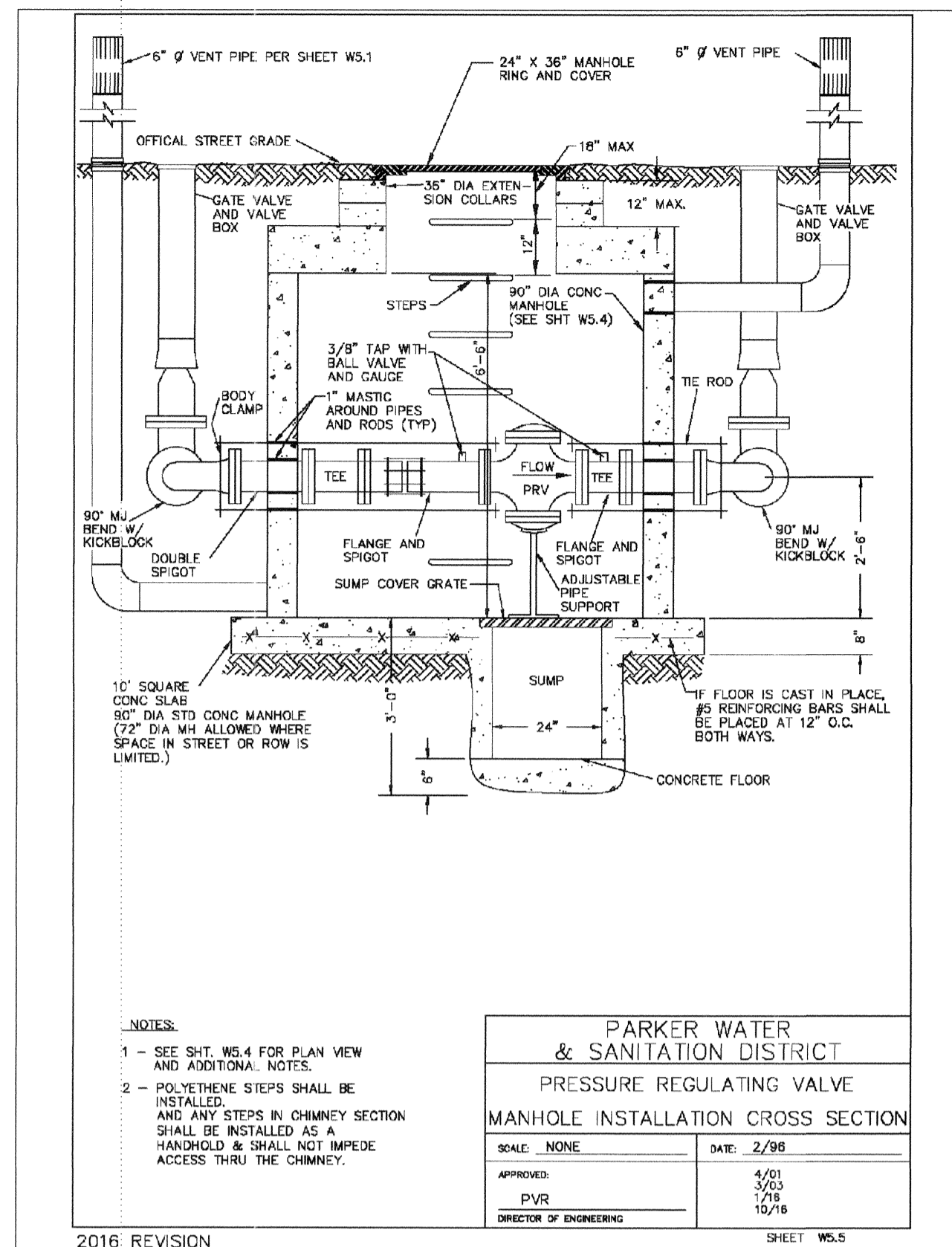
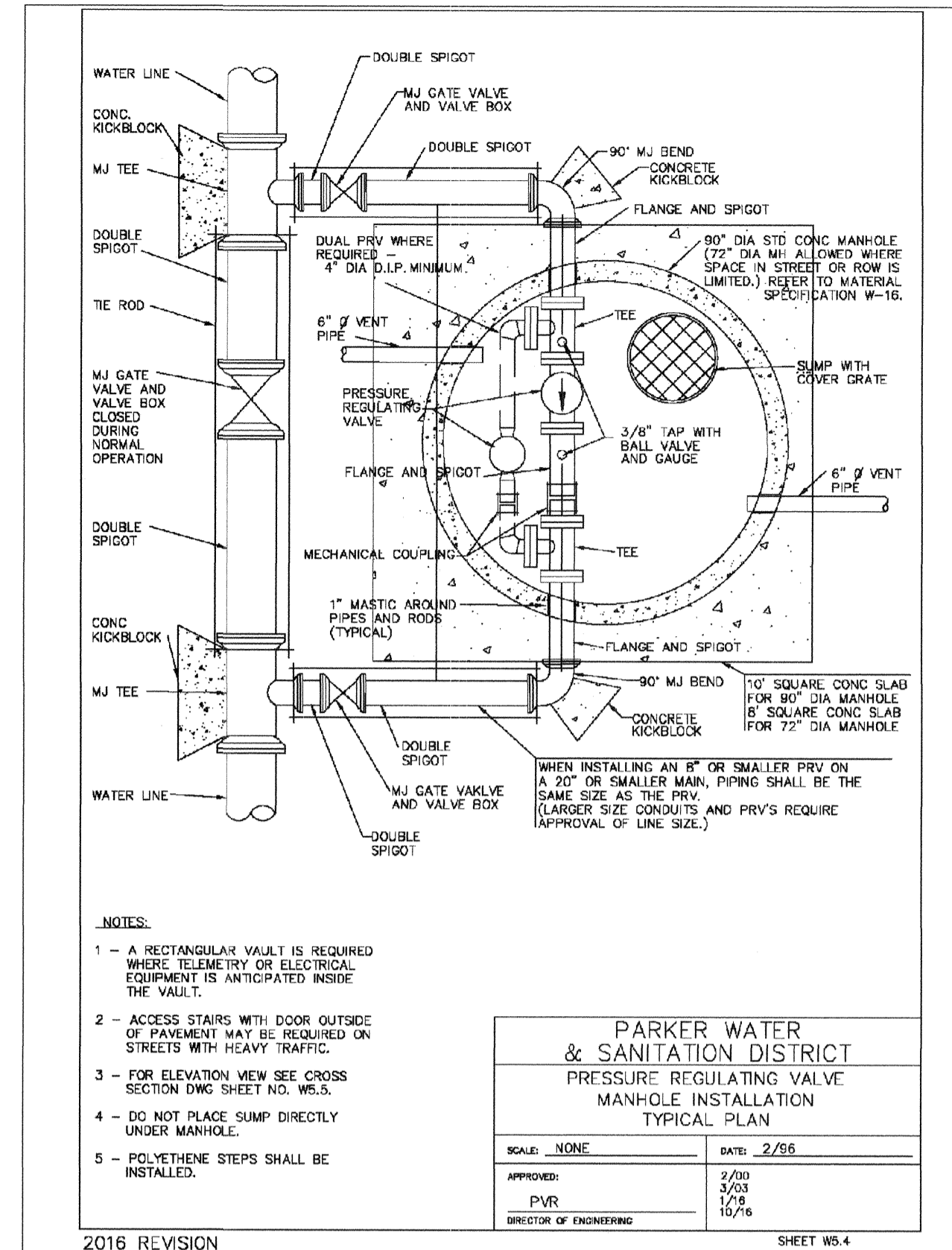
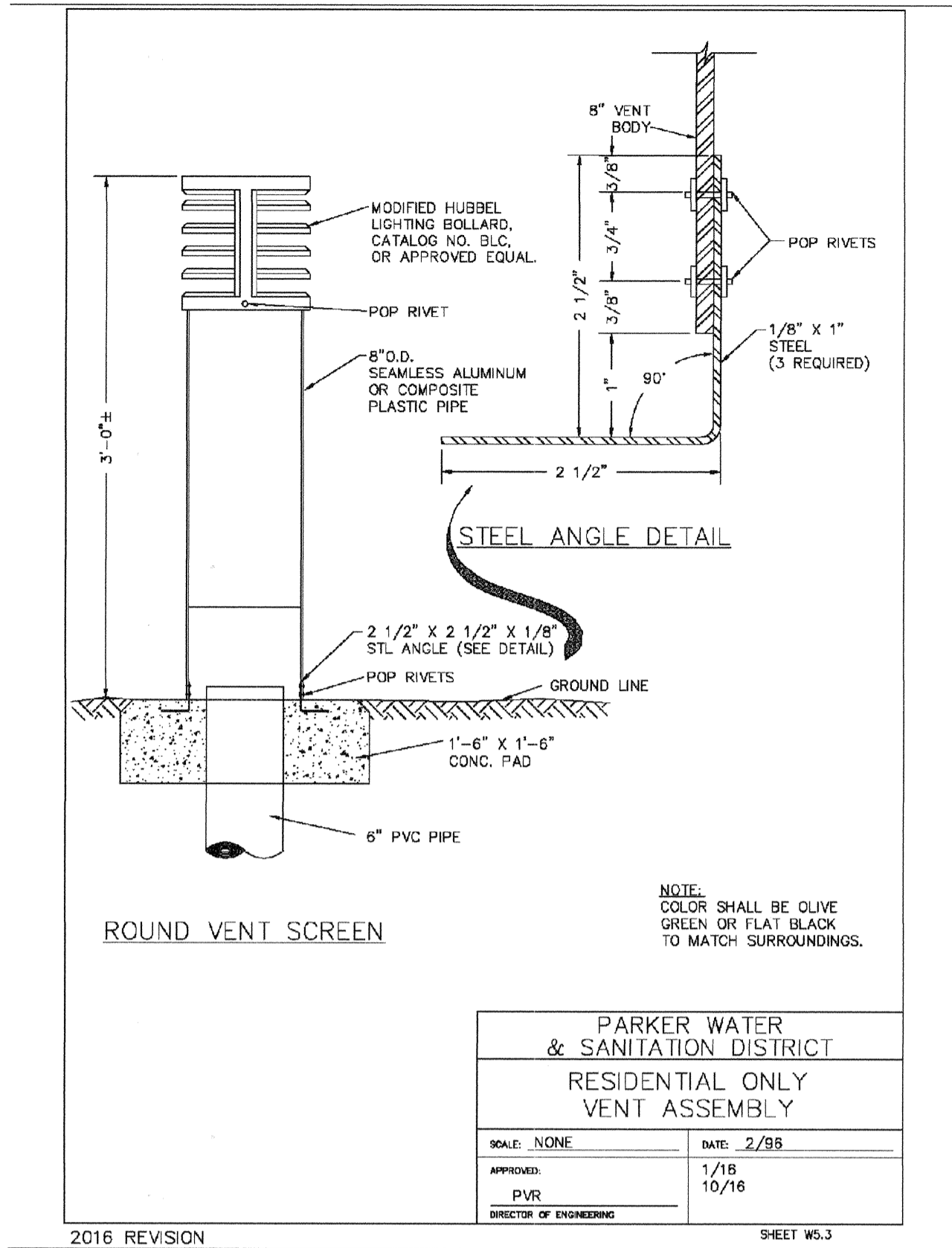
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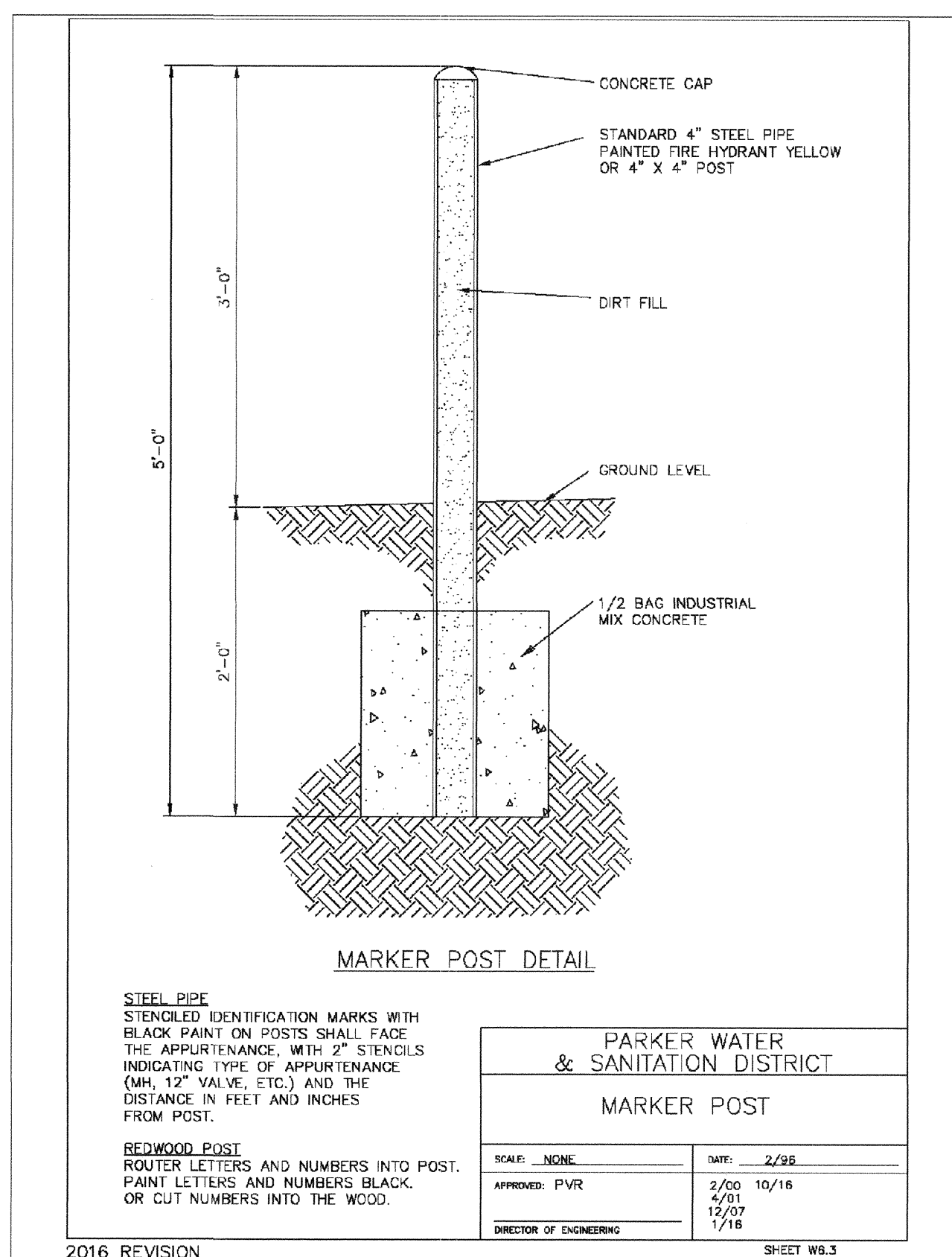
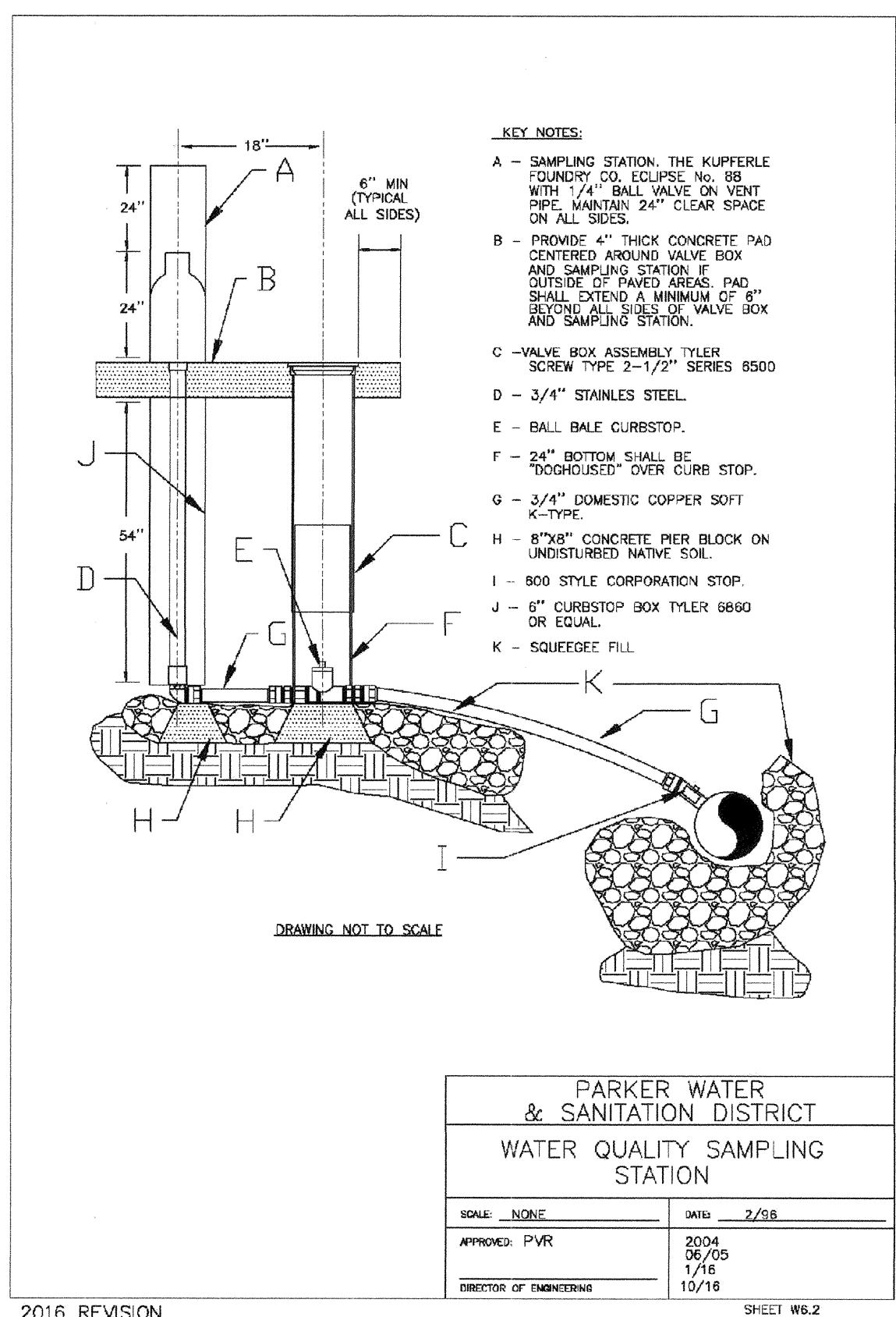
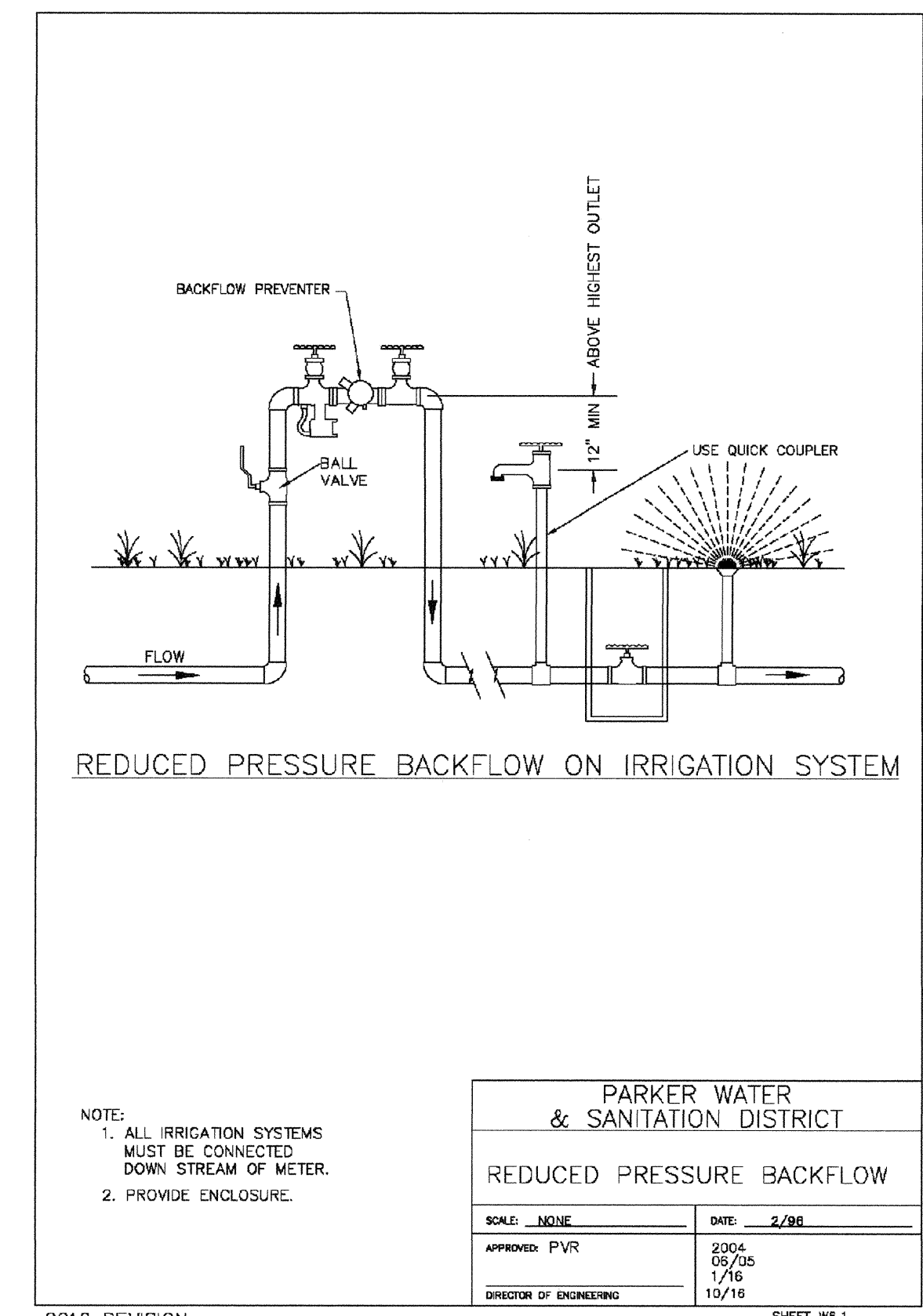
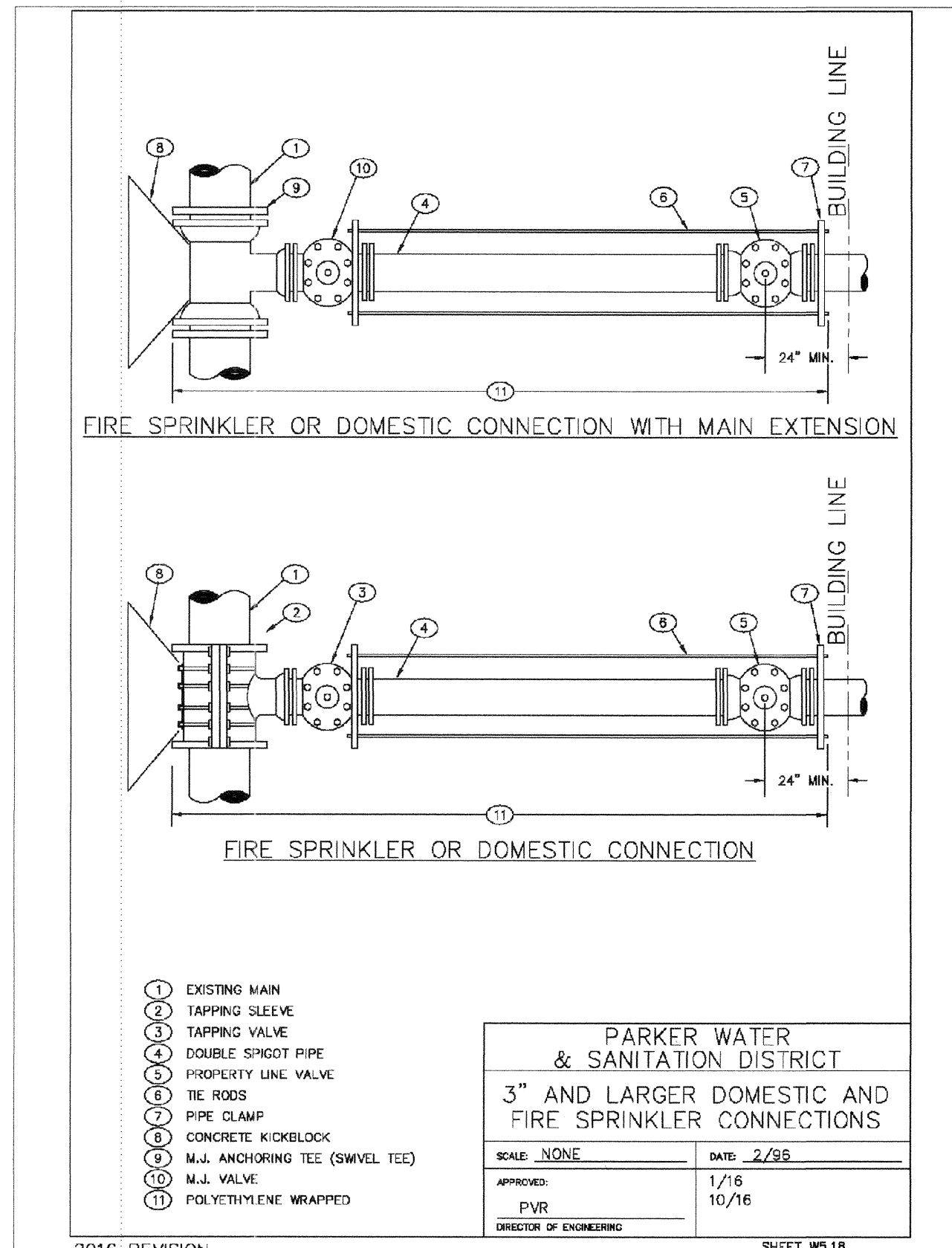
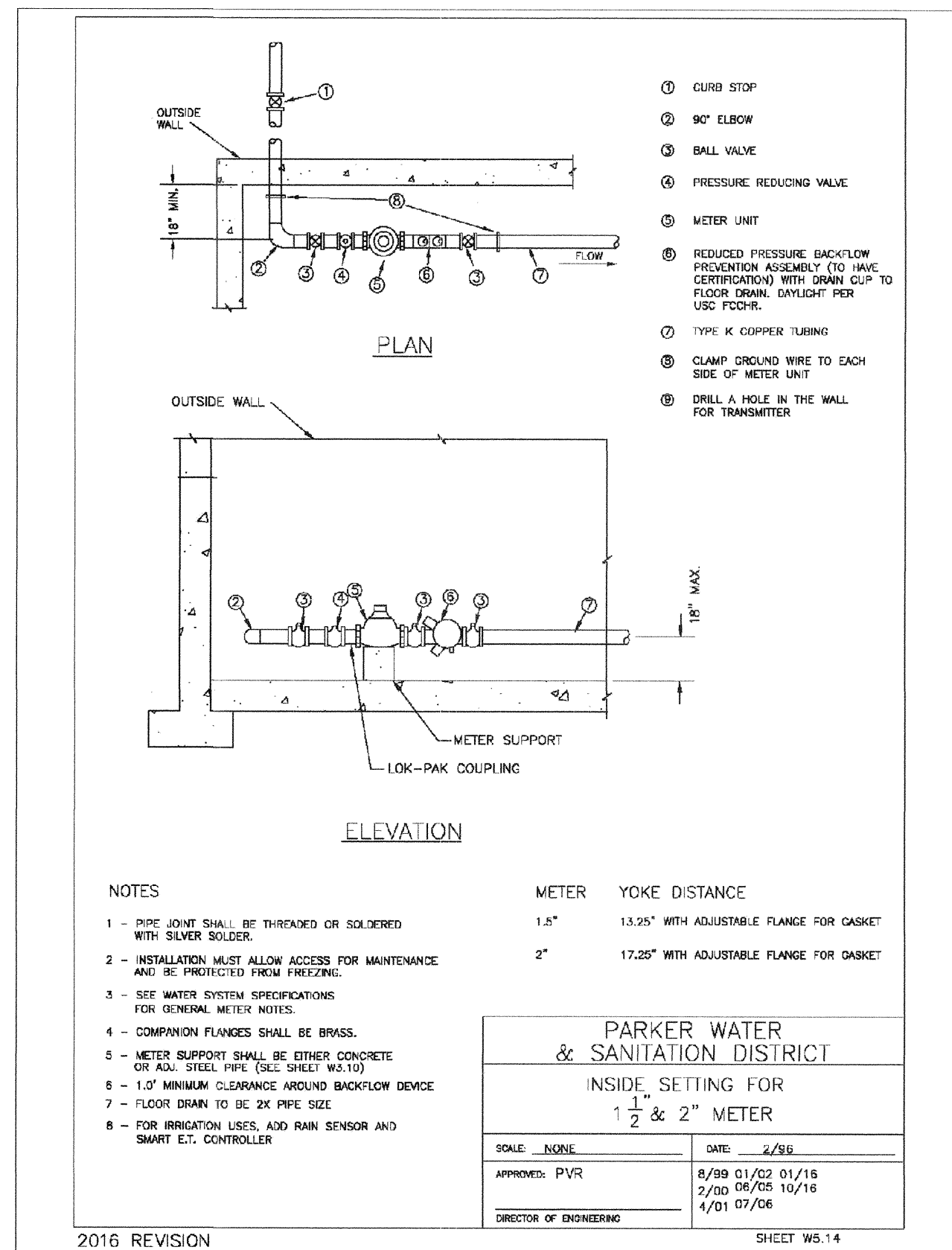
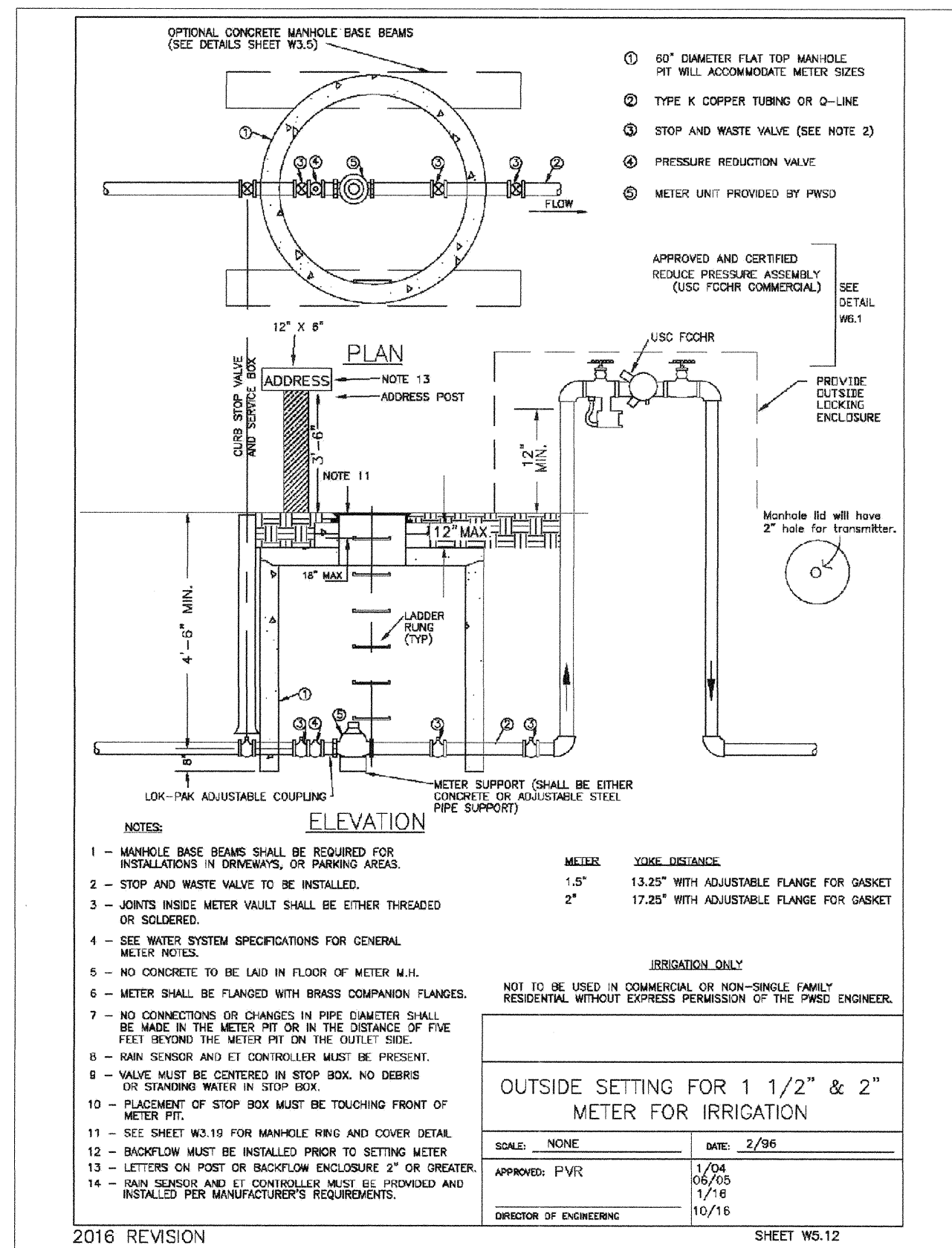
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