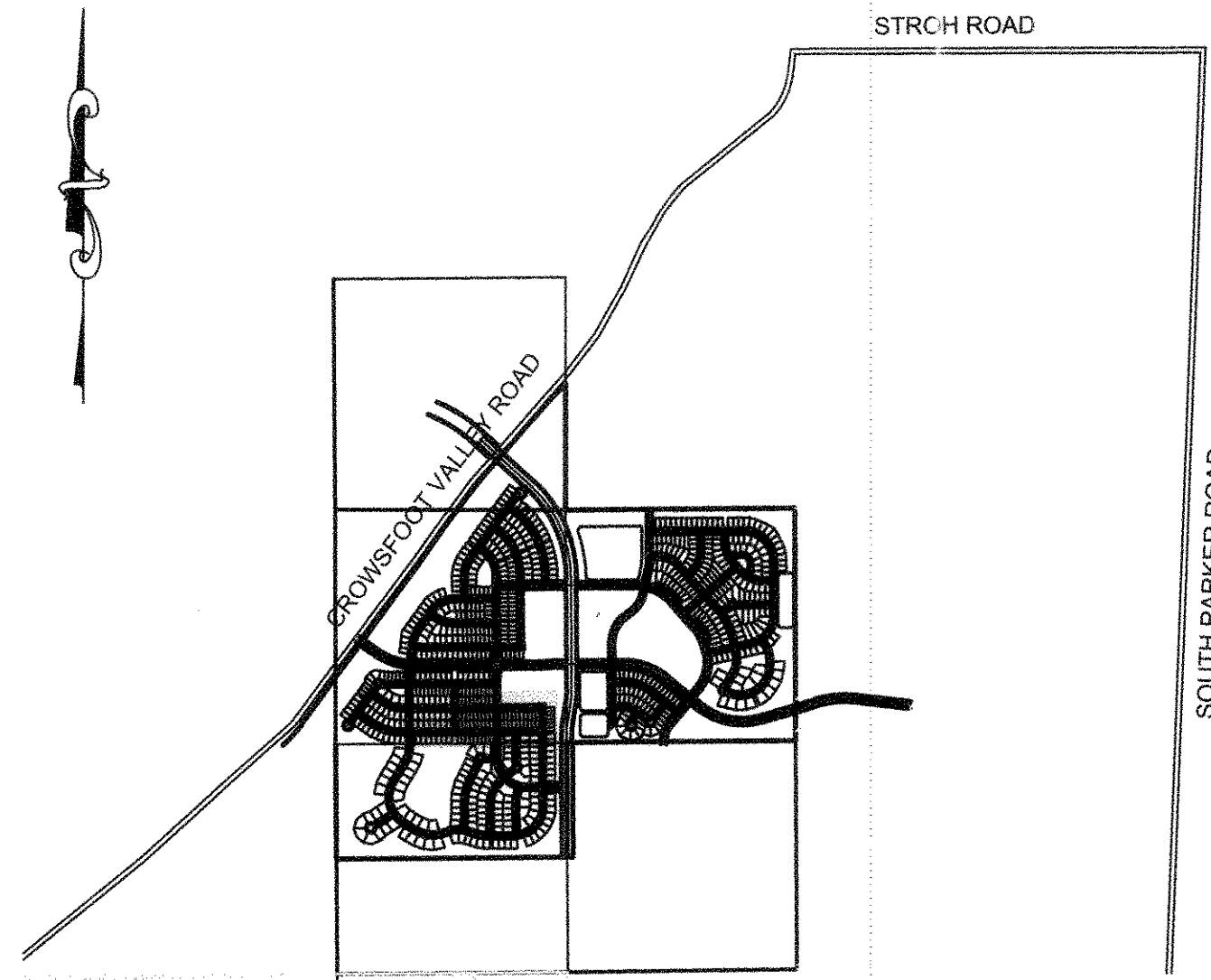


# TRAILS AT CROWFOOT FILING 5

## PARKER WATER AND SANITATION CONSTRUCTION PLANS

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

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P BIRDS FOOT AVENUE
5	SANITARY P&P BIRDFOOT AVENUE & HOP CLOVER TRAIL
6	SANITARY P&P HOP CLOVER AVENUE
7	SANITARY P&P HOP CLOVER AVENUE
8	WATER P&P BIRDS FOOT AVENUE
9	WATER P&P BIRDFOOT AVENUE & HOP CLOVER TRAIL
10	WATER P&P HOP CLOVER AVENUE
11	WATER P&P HOP CLOVER AVENUE
12	SANITARY SEWER DETAILS
13	SANITARY SEWER DETAILS
14	SANITARY SEWER DETAILS
15	WATER DETAILS
16	WATER DETAILS
17	WATER DETAILS
18	WATER DETAILS
19	WATER DETAILS
20	WATER DETAILS
21	WATER DETAILS



VICINITY MAP  
SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
6" WATERPIPE (DIP)	124	L.F.
8" WATERPIPE (PVC)	2,671	L.F.
6" GATE VALVE	5	EA.
8" GATE VALVE	13	EA.
8" MISC. FITTINGS	8	EA.
AIR/VAC VALVE	1	EA.
8" CAP WITH BLOW OFF VALVE	5	EA.
FIRE HYDRANT WITH 6" LEAD	5	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	77	EA.
CONNECTION TO EXISTING MAIN	7	EA.
8" SEWER (SDR-35 PVC)	2,496	L.F.
4' DIA. MANHOLE	10	EA.
SEWER SERVICE LATERAL W/ WYE TAP	81	EA.
CONNECTION TO EXISTING MAIN	6	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) 7-2-18  
DATE

(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 SCHEDULE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

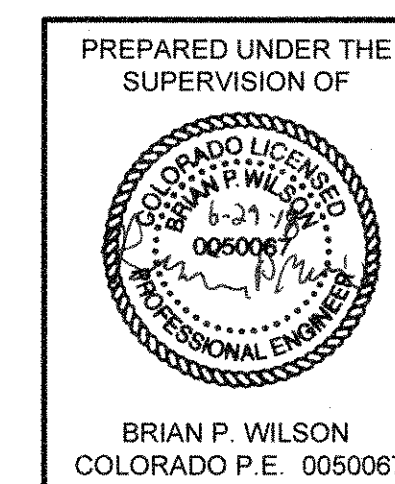
BY: *[Signature]*  
(DISTRICT REPRESENTATIVE)

DATE SIGNED: 8-14-19

APPROVED FOR CONSTRUCTION:  
PARKER WATER AND SANITATION DISTRICT

BY: *[Signature]*  
(DISTRICT ENGINEER)

DATE SIGNED: 8/14/2019



**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.

DEVELOPER

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

PLANNER/  
LANDSCAPE  
DESIGNER:

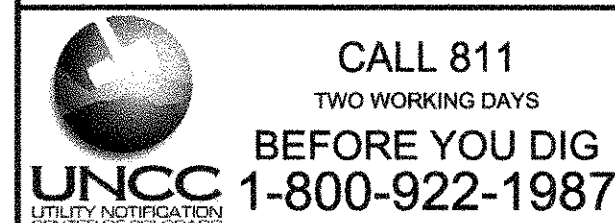
PCS GROUP, INC.  
200 KALAMATH STREET  
DENVER, CO 80233  
TEL: (303) 531-4905  
CONTACT: JOHN PRESTWICH

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



10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	No.	Date	Appr.	Date
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112					
TRAILS AT CROWFOOT FILING 5 CONSTRUCTION DRAWINGS COVER SHEET					
SCALE: AS SHOWN FILE NO: 8130283701					
DRAWN BY: KJD CHECKED BY: JJ DATE: AUGUST 2017					
SHEET NUMBER 1					

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**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 REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
11. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
12. 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 PWSO 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 PWSO 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 PERMATEX 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 REMEDIED 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.

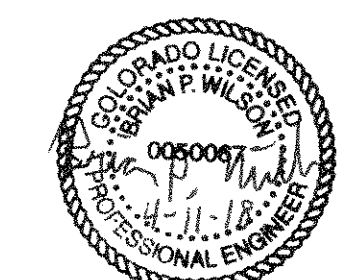
APPROVED  
 AUG 14 2019  
 PARKER WATER AND  
 SANITATION DISTRICT

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 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) HAVD '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.

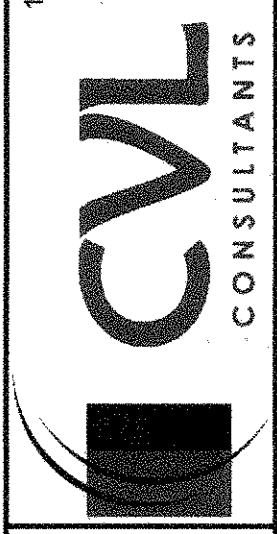
PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
 COLORADO P.E. 0050067

SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JW	DATE: AUGUST 2017	SCALE: AS SHOWN	FILE NO: 8130283701	No.	Revisions	Date	Appr.
								Date	Appr.
2									

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



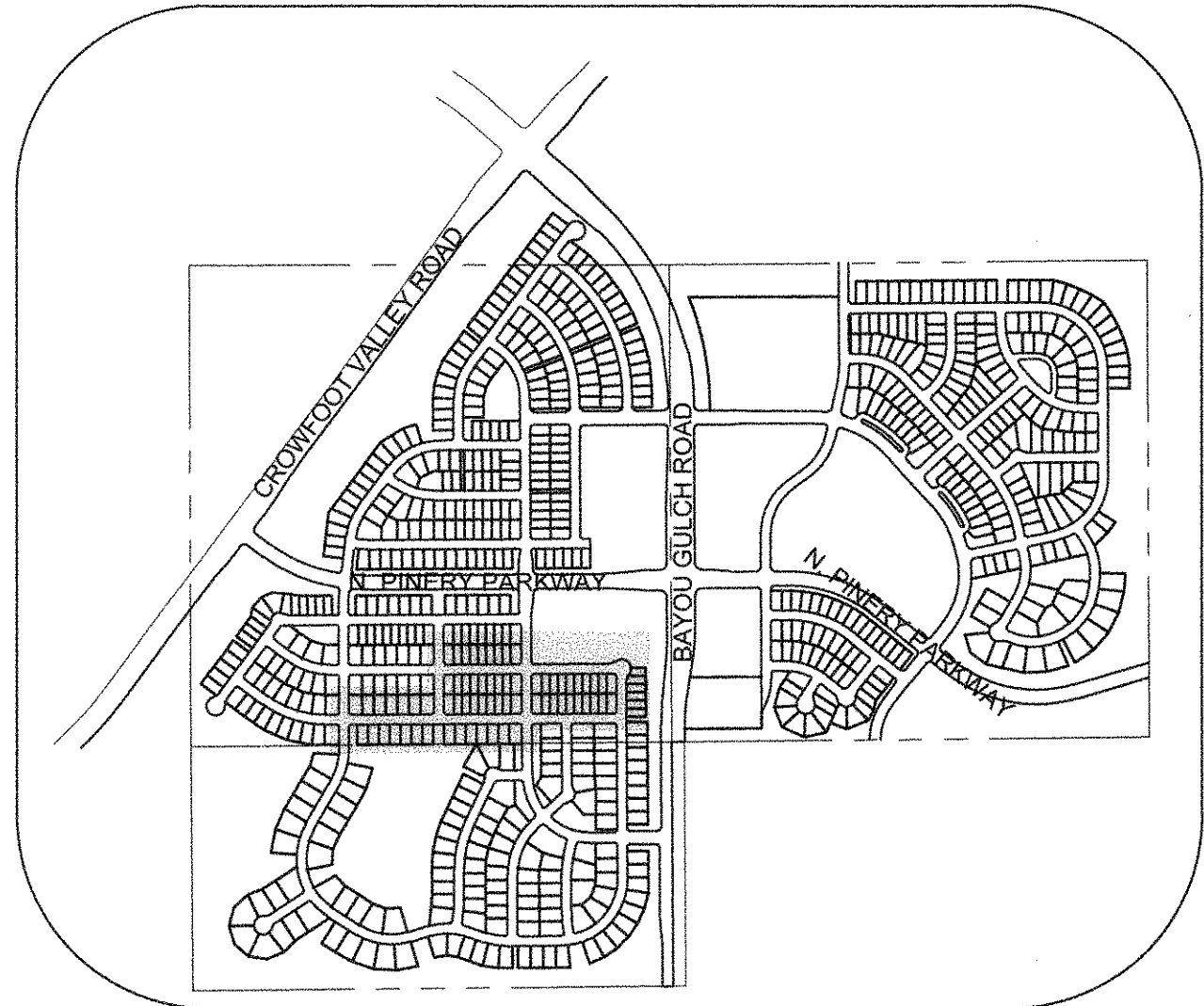
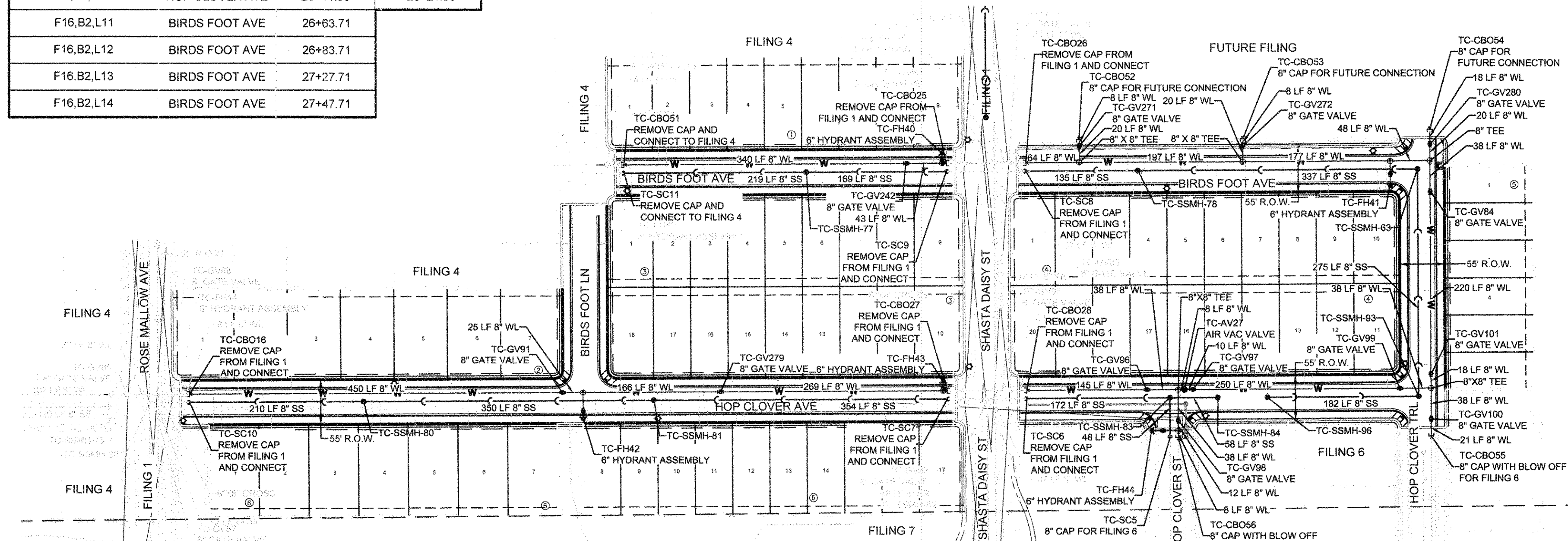
HR 935 LLC  
 7353 South Alton Way  
 CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
 FILING 5 CONSTRUCTION DRAWINGS  
 PARKER WATER AND SANITATION NOTES

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SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F5,B1,L1	BIRDS FOOT AVE	20+62.94	20+52.94
F5,B1,L2	BIRDS FOOT AVE	21+07.63	20+97.63
F5,B1,L3	BIRDS FOOT AVE	21+52.63	21+42.63
F5,B1,L4	BIRDS FOOT AVE	21+97.63	21+87.63
F5,B1,L5	BIRDS FOOT AVE	22+42.63	22+32.63
F5,B1,L6	BIRDS FOOT AVE	22+87.63	22+77.63
F5,B1,L7	BIRDS FOOT AVE	23+32.63	23+22.63
F5,B1,L8	BIRDS FOOT AVE	23+77.63	23+67.63
F5,B1,L9	BIRDS FOOT AVE	24+32.73	24+44.73
F5,B2,L1	HOP CLOVER AVE	17+21.78	17+11.78
F5,B2,L2	HOP CLOVER AVE	17+78.65	17+68.65
F5,B2,L3	HOP CLOVER AVE	18+43.00	18+33.00
F5,B2,L4	HOP CLOVER AVE	19+07.35	18+97.35
F5,B2,L5	HOP CLOVER AVE	19+71.70	19+61.70
F5,B2,L6	HOP CLOVER AVE	20+36.05	20+26.05
F5,B2,L7	HOP CLOVER AVE	21+08.30	20+90.40
F5,B3,L1	BIRDS FOOT AVE	20+64.94	20+54.94
F5,B3,L2	BIRDS FOOT AVE	21+05.63	20+95.63
F5,B3,L3	BIRDS FOOT AVE	21+50.63	21+40.63
F5,B3,L4	BIRDS FOOT AVE	21+95.63	21+85.63
F5,B3,L5	BIRDS FOOT AVE	22+40.63	22+30.63
F5,B3,L6	BIRDS FOOT AVE	22+85.63	22+85.63
F5,B3,L7	BIRDS FOOT AVE	23+30.63	23+20.63
F5,B3,L8	BIRDS FOOT AVE	23+75.63	23+65.63
F5,B3,L9	BIRDS FOOT AVE	24+29.73	24+42.73
F5,B3,L10	HOP CLOVER AVE	26+08.90	26+23.90
F5,B3,L11	HOP CLOVER AVE	25+54.80	25+44.80
F5,B3,L12	HOP CLOVER AVE	25+09.80	24+99.80
F5,B3,L13	HOP CLOVER AVE	24+64.80	24+54.80
F5,B3,L14	HOP CLOVER AVE	24+19.80	24+09.80
F5,B3,L15	HOP CLOVER AVE	23+74.80	23+64.80
F5,B3,L16	HOP CLOVER AVE	23+29.80	23+19.80
F5,B3,L17	HOP CLOVER AVE	22+84.80	22+74.80
F5,B3,L18	HOP CLOVER AVE	22+29.80	22+19.80
F5,B4,L1	BIRDS FOOT AVE	25+45.24	25+35.24
F5,B4,L2	BIRDS FOOT AVE	25+90.60	25+80.60
F5,B4,L3	BIRDS FOOT AVE	26+35.60	26+25.60
F5,B4,L4	BIRDS FOOT AVE	26+80.60	26+70.60
F5,B4,L5	BIRDS FOOT AVE	27+25.60	27+15.60
F5,B4,L6	BIRDS FOOT AVE	27+70.60	27+60.60
F5,B4,L7	BIRDS FOOT AVE	28+15.60	28+05.60
F5,B4,L8	BIRDS FOOT AVE	28+60.60	28+50.60
F5,B4,L9	BIRDS FOOT AVE	29+05.60	28+95.60
F5,B4,L10	BIRDS FOOT AVE	29+50.60	29+40.60
F5,B4,L11	HOP CLOVER AVE	31+54.77	31+64.77
F5,B4,L12	HOP CLOVER AVE	31+00.00	31+09.77
F5,B4,L13	HOP CLOVER AVE	30+54.77	30+64.77
F5,B4,L14	HOP CLOVER AVE	30+09.77	30+19.77
F5,B4,L15	HOP CLOVER AVE	29+49.77	29+39.77
F5,B4,L16	HOP CLOVER AVE	29+04.77	28+94.77
F5,B4,L17	HOP CLOVER AVE	28+59.77	28+51.77
F5,B4,L18	HOP CLOVER AVE	28+16.77	28+06.77
F5,B4,L19	HOP CLOVER AVE	27+71.77	27+61.77
F5,B4,L20	HOP CLOVER AVE	27+24.90	27+14.90

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F5,B5,L1	HOP CLOVER TRL	13+13.24	13+03.24
F5,B5,L2	HOP CLOVER TRL	13+58.24	13+48.24
F5,B5,L3	HOP CLOVER TRL	14+03.24	13+93.24
F5,B5,L4	HOP CLOVER TRL	14+48.24	14+38.24
F5,B5,L5	HOP CLOVER TRL	14+93.24	14+83.24
F5,B5,L6	HOP CLOVER TRL	15+38.24	15+28.24
F5,B6,L1	HOP CLOVER AVE	17+48.30	17+38.30
F5,B6,L2	HOP CLOVER AVE	18+08.30	17+98.30
F5,B6,L3	HOP CLOVER AVE	18+68.30	18+58.30
F5,B6,L4	HOP CLOVER AVE	19+39.55	19+29.55
F5,B6,L5	HOP CLOVER AVE	19+91.70	19+81.70
F5,B6,L6	HOP CLOVER AVE	20+56.05	20+46.05
F5,B6,L7	HOP CLOVER AVE	21+10.30	20+98.30
F5,B6,L8	HOP CLOVER AVE	21+99.40	21+89.40
F5,B6,L9	HOP CLOVER AVE	22+44.40	22+34.40
F5,B6,L10	HOP CLOVER AVE	22+89.40	22+79.40
F5,B6,L11	HOP CLOVER AVE	23+34.40	23+24.40
F5,B6,L12	HOP CLOVER AVE	23+79.40	23+69.40
F5,B6,L13	HOP CLOVER AVE	24+24.40	24+14.40
F5,B6,L14	HOP CLOVER AVE	24+69.40	24+59.40
F5,B6,L15	HOP CLOVER AVE	25+14.40	25+04.40
F5,B6,L16	HOP CLOVER AVE	25+59.40	25+49.40
F5,B6,L17	HOP CLOVER AVE	26+11.90	26+21.90
F16,B2,L11	BIRDS FOOT AVE	26+63.71	
F16,B2,L12	BIRDS FOOT AVE	26+83.71	
F16,B2,L13	BIRDS FOOT AVE	27+27.71	
F16,B2,L14	BIRDS FOOT AVE	27+47.71	



**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	5620 PROPOSED 5' CONTOUR
⊞ PROPOSED LOW POINT BLOW-OFF	5607 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	--- 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

**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
CB0	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CCR	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
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INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

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]* 08/27/2019  
Town of Parker, Director of Engineering Date

**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]* 7-7-18  
(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) DATE

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

**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.66032, 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) NAD 83 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  
*[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.

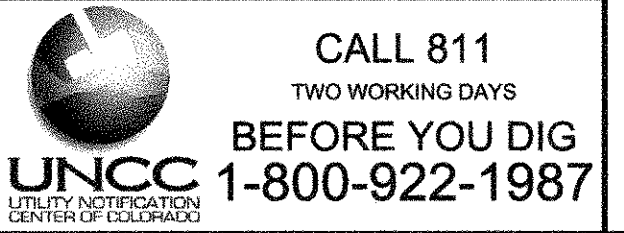
REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: \_\_\_\_\_ DATE \_\_\_\_\_  
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:  
PARKER WATER AND SANITATION DISTRICT

BY: \_\_\_\_\_ DATE \_\_\_\_\_  
(DISTRICT ENGINEER)

N:\PROJECTS\HESR\ANCHAD\ENGINEERING\SHSHEET SETS\CD\SPARKER WATER AND SANITATION\AREA UTILITY PLAN.DWG. BRIANW. 6/29/2018 9:14 AM



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

**CVL CONSULTANTS**

HR 935 LLC  
7363 South Alton Way  
CENTENNIAL, CO 80112

**TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
AREA UTILITY PLAN**

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

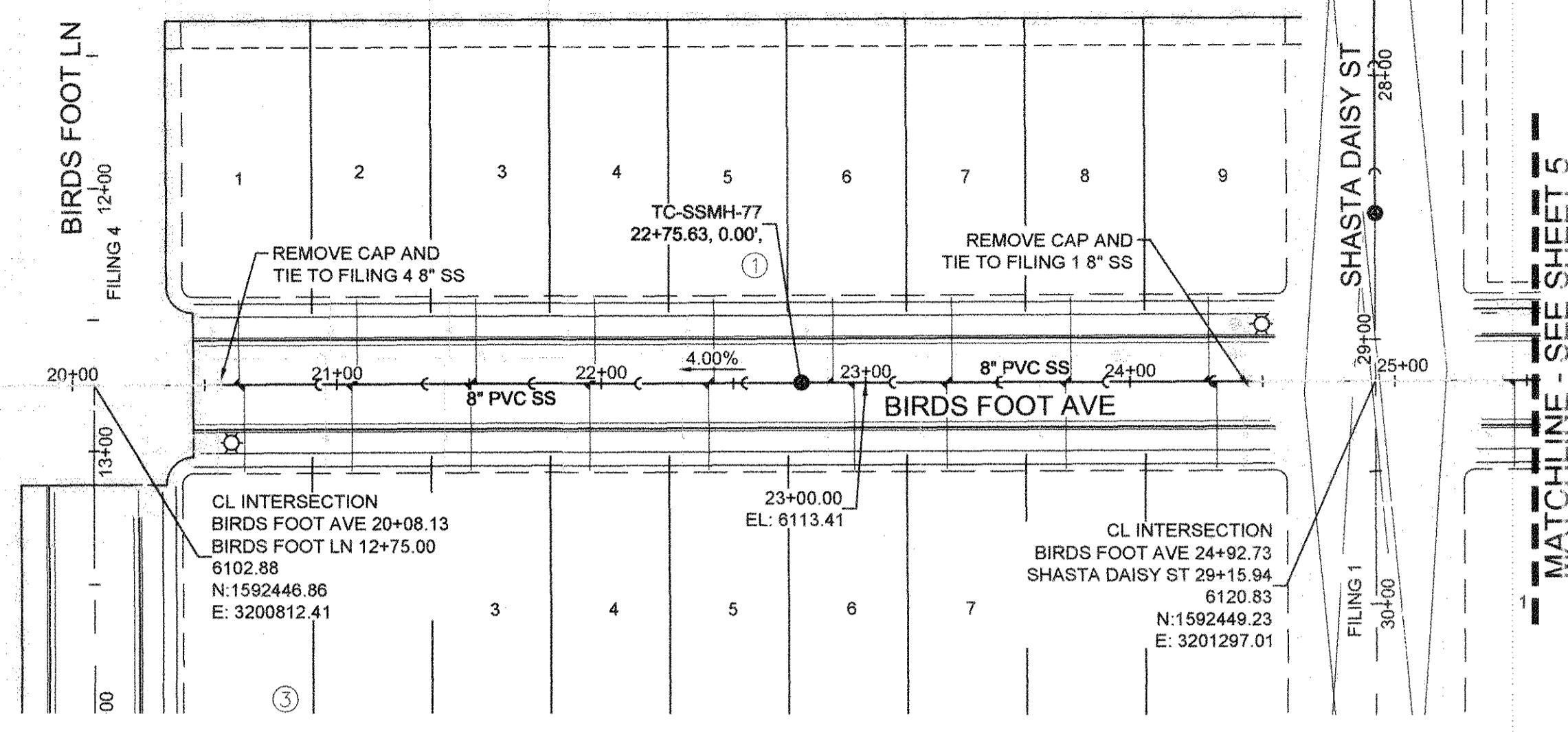
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FILE NO: 8130283701

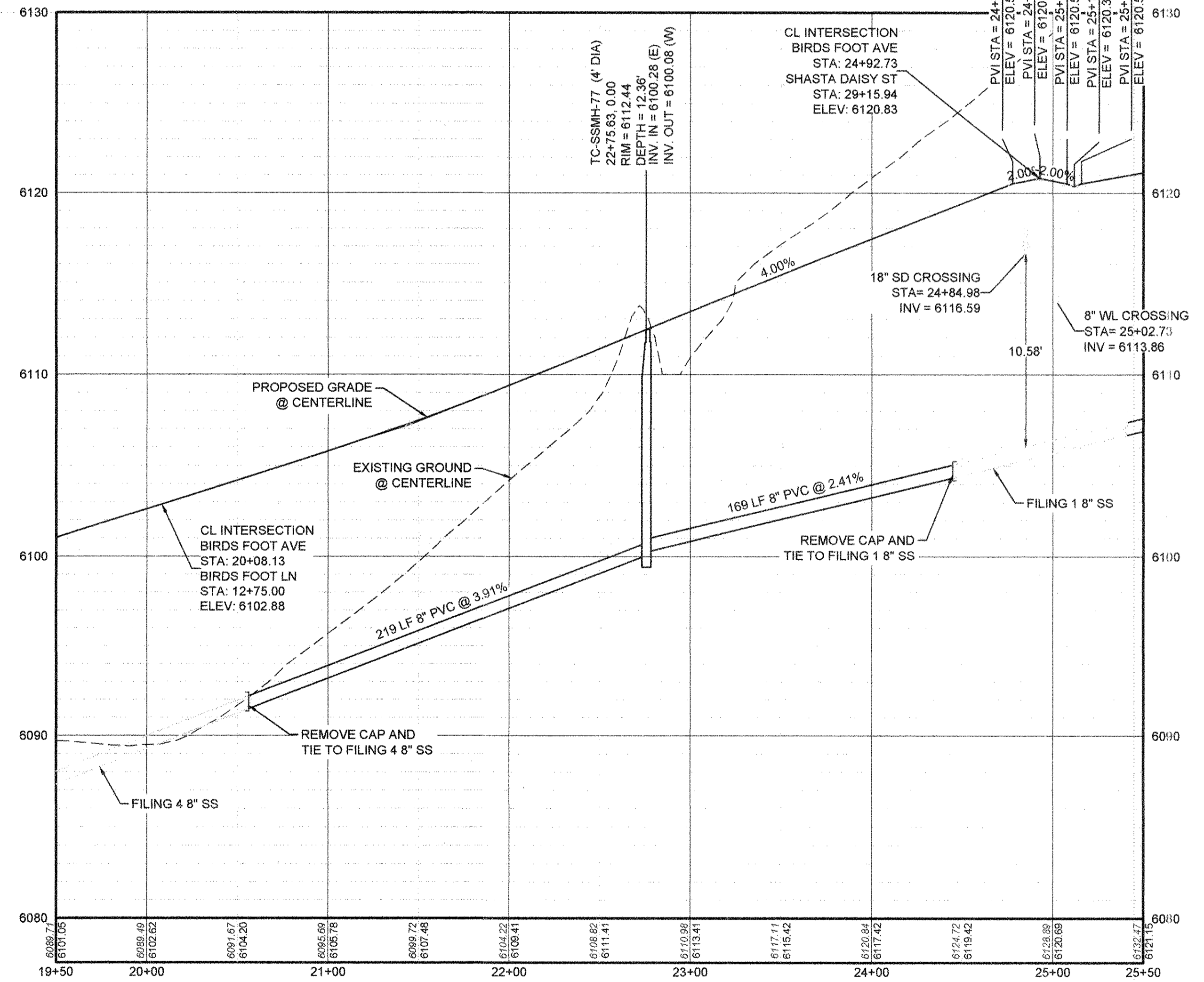
Revisions: No. \_\_\_\_\_ Date \_\_\_\_\_ Date \_\_\_\_\_ Date \_\_\_\_\_

Date \_\_\_\_\_

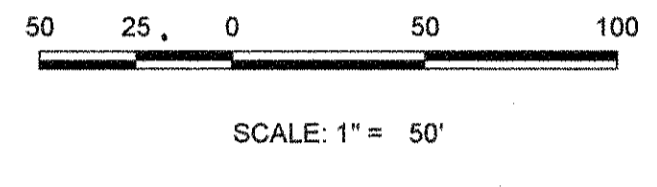
Appr. \_\_\_\_\_



PLAN: BIRDS FOOT AVENUE STA: 19+50.00 TO 25+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: BIRDS FOOT AVENUE STA: 19+50.00 TO 25+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



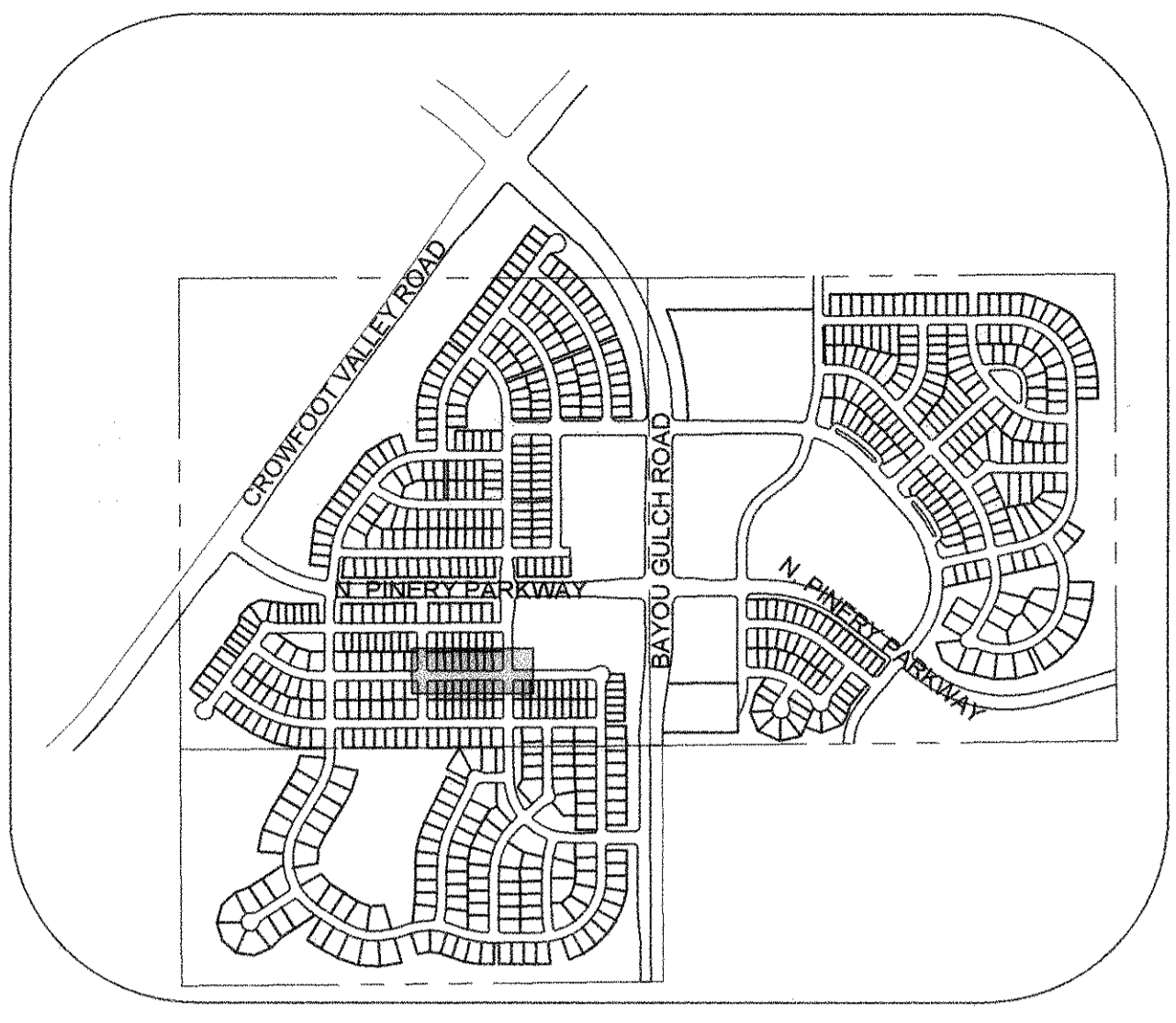
SANITARY SERVICE TABLE			
FILING, BLOCK, LOT	STREET	STATIONING	
F5,B1,L1	BIRDS FOOT AVE	20+62.94	
F5,B1,L2	BIRDS FOOT AVE	21+07.63	
F5,B1,L3	BIRDS FOOT AVE	21+52.63	
F5,B1,L4	BIRDS FOOT AVE	21+97.63	
F5,B1,L5	BIRDS FOOT AVE	22+42.63	
F5,B1,L6	BIRDS FOOT AVE	22+87.63	
F5,B1,L7	BIRDS FOOT AVE	23+32.63	
F5,B1,L8	BIRDS FOOT AVE	23+77.63	
F5,B1,L9	BIRDS FOOT AVE	24+32.73	
F5,B3,L1	BIRDS FOOT AVE	20+64.94	
F5,B3,L2	BIRDS FOOT AVE	21+05.63	
F5,B3,L3	BIRDS FOOT AVE	21+50.63	
F5,B3,L4	BIRDS FOOT AVE	21+95.63	
F5,B3,L5	BIRDS FOOT AVE	22+40.63	
F5,B3,L6	BIRDS FOOT AVE	22+95.63	
F5,B3,L7	BIRDS FOOT AVE	23+30.63	
F5,B3,L8	BIRDS FOOT AVE	23+75.63	
F5,B3,L9	BIRDS FOOT AVE	24+29.73	

**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
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⊕	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 OPTIC LINE
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⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

**ABBREVIATIONS**

AD	ANGLE DIFFERENCE	MH	MANHOLE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION



KEYMAP  
N.T.S.

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

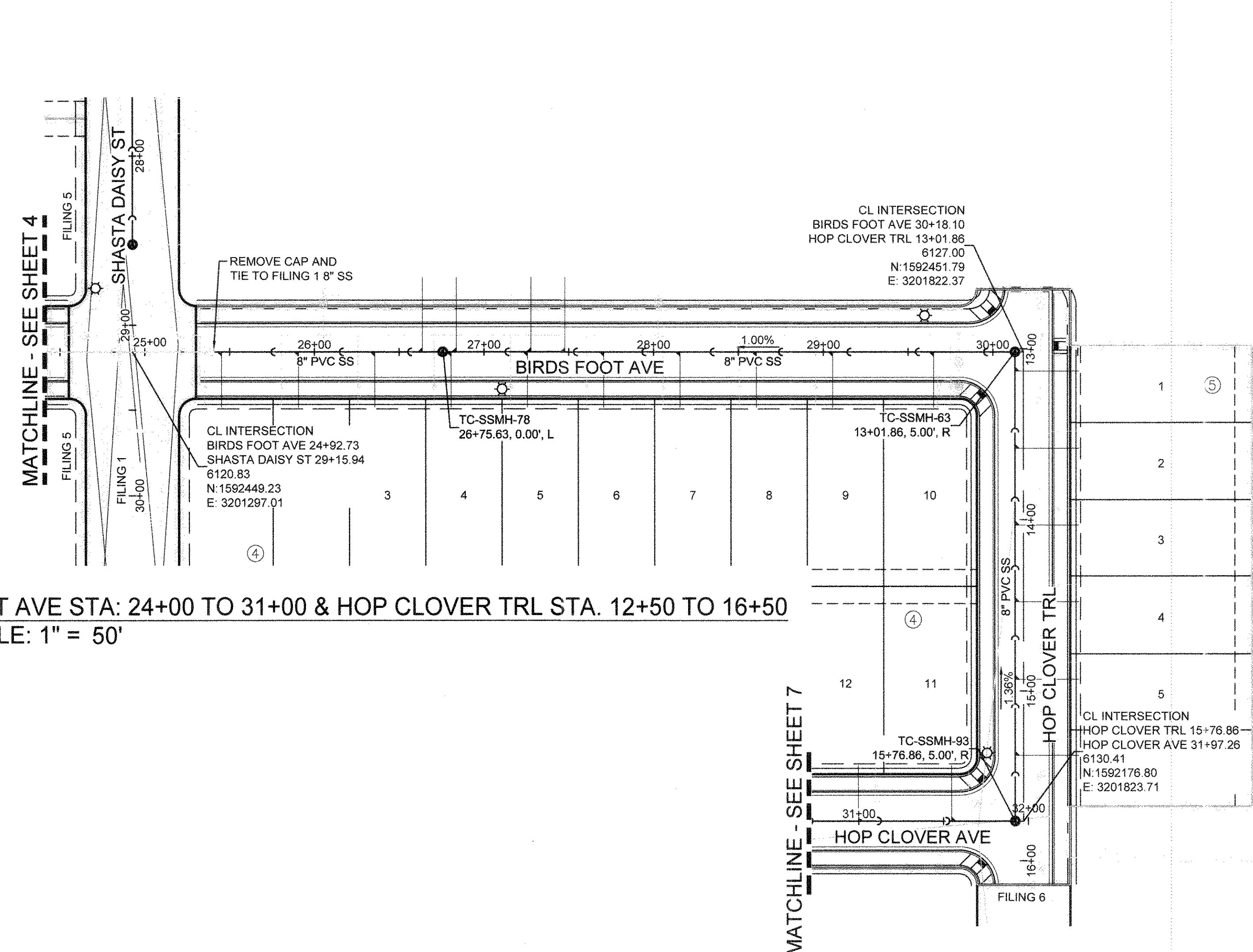
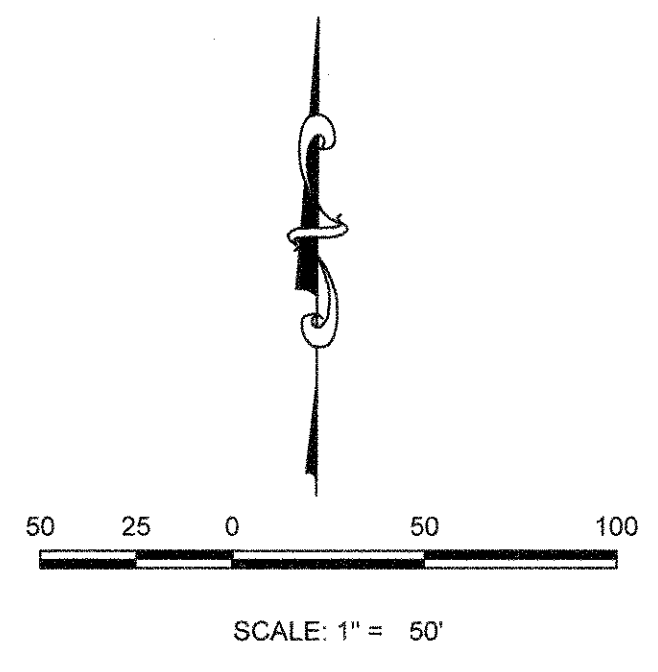
**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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

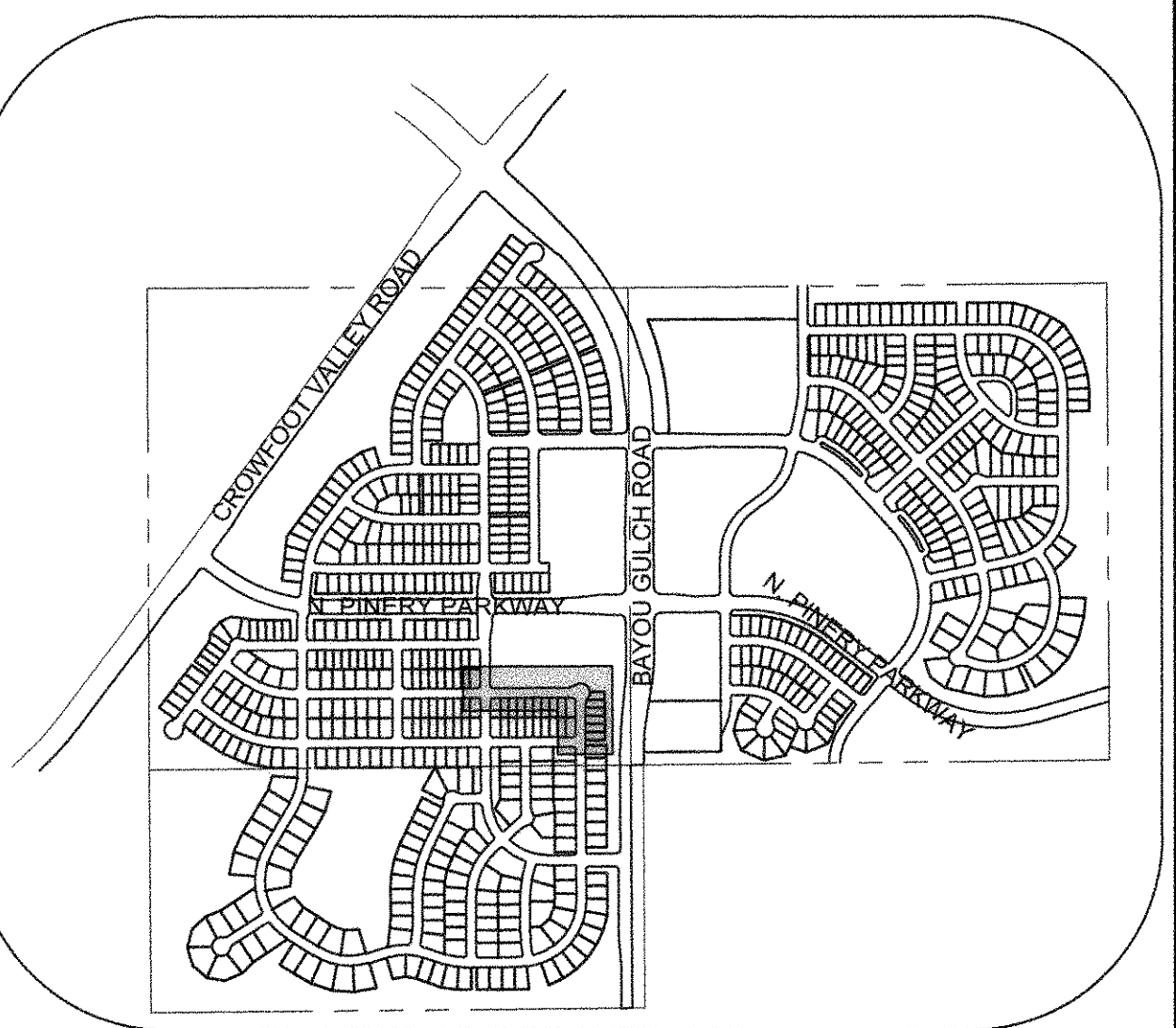
APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	Date	Appr.	Date
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	No.			
TRAILS AT CROWFOOT FILING 5 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE BIRDS FOOT AVENUE	DRAWN BY: KJD	SCALE: AS SHOWN	FILE NO: 8130283701	SHEET NUMBER: 4
	CHECKED BY: JW	DATE: AUGUST 2017		



PLAN: BIRDS FOOT AVE STA: 24+00 TO 31+00 & HOP CLOVER TRL STA: 12+50 TO 16+50  
HORIZONTAL SCALE: 1" = 50'

SANITARY SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F5,B4,L1	BIRDS FOOT AVE	25+45.24
F5,B4,L2	BIRDS FOOT AVE	25+90.60
F5,B4,L3	BIRDS FOOT AVE	26+35.60
F5,B4,L4	BIRDS FOOT AVE	26+80.60
F5,B4,L5	BIRDS FOOT AVE	27+25.60
F5,B4,L6	BIRDS FOOT AVE	27+70.60
F5,B4,L7	BIRDS FOOT AVE	28+15.60
F5,B4,L8	BIRDS FOOT AVE	28+60.60
F5,B4,L9	BIRDS FOOT AVE	29+05.60
F5,B4,L10	BIRDS FOOT AVE	29+50.60
F5,B5,L1	HOP CLOVER TRL	13+13.24
F5,B5,L2	HOP CLOVER TRL	13+58.24
F5,B5,L3	HOP CLOVER TRL	14+03.24
F5,B5,L4	HOP CLOVER TRL	14+48.24
F5,B5,L5	HOP CLOVER TRL	14+93.24
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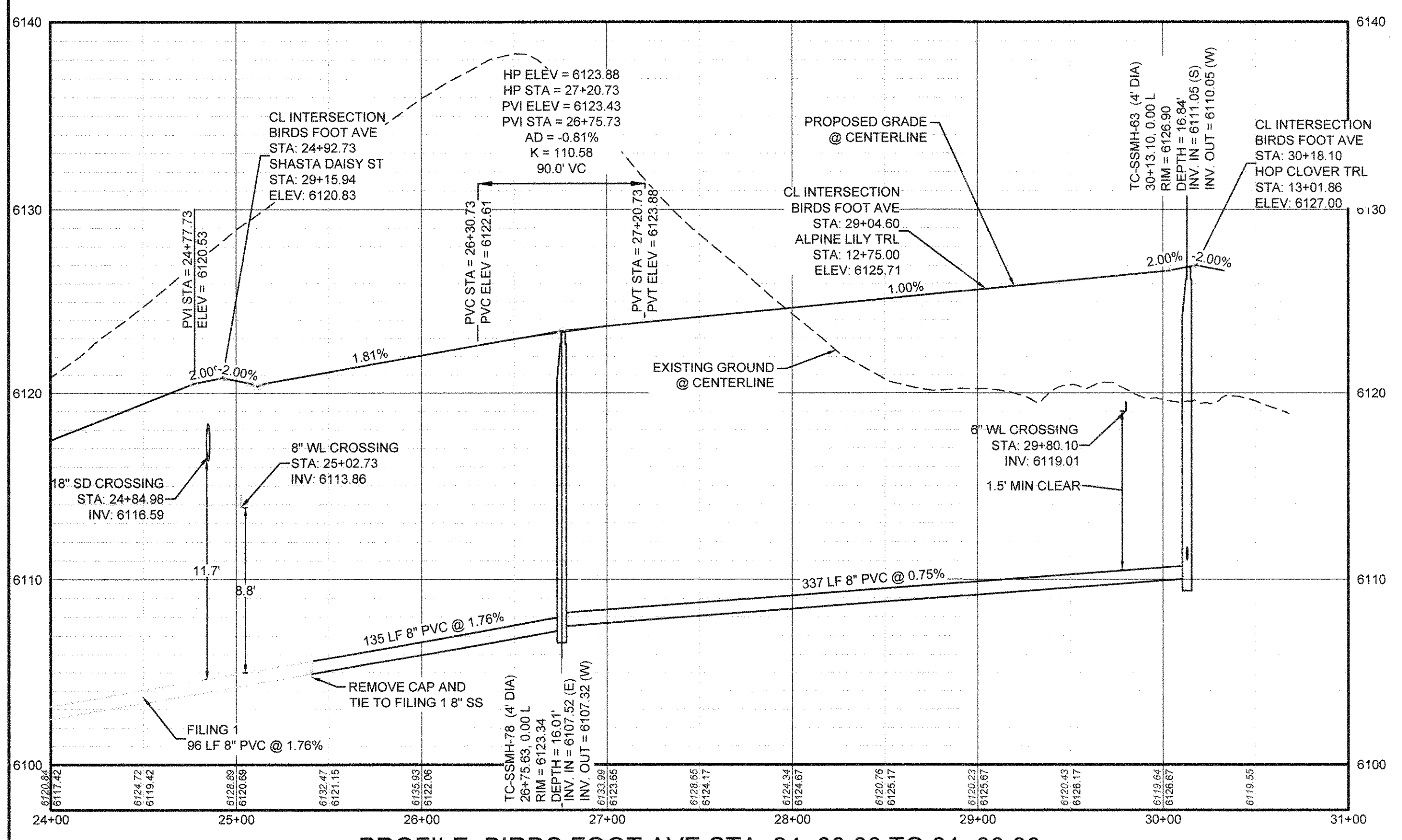


KEYMAP  
N.T.S.  
LEGEND

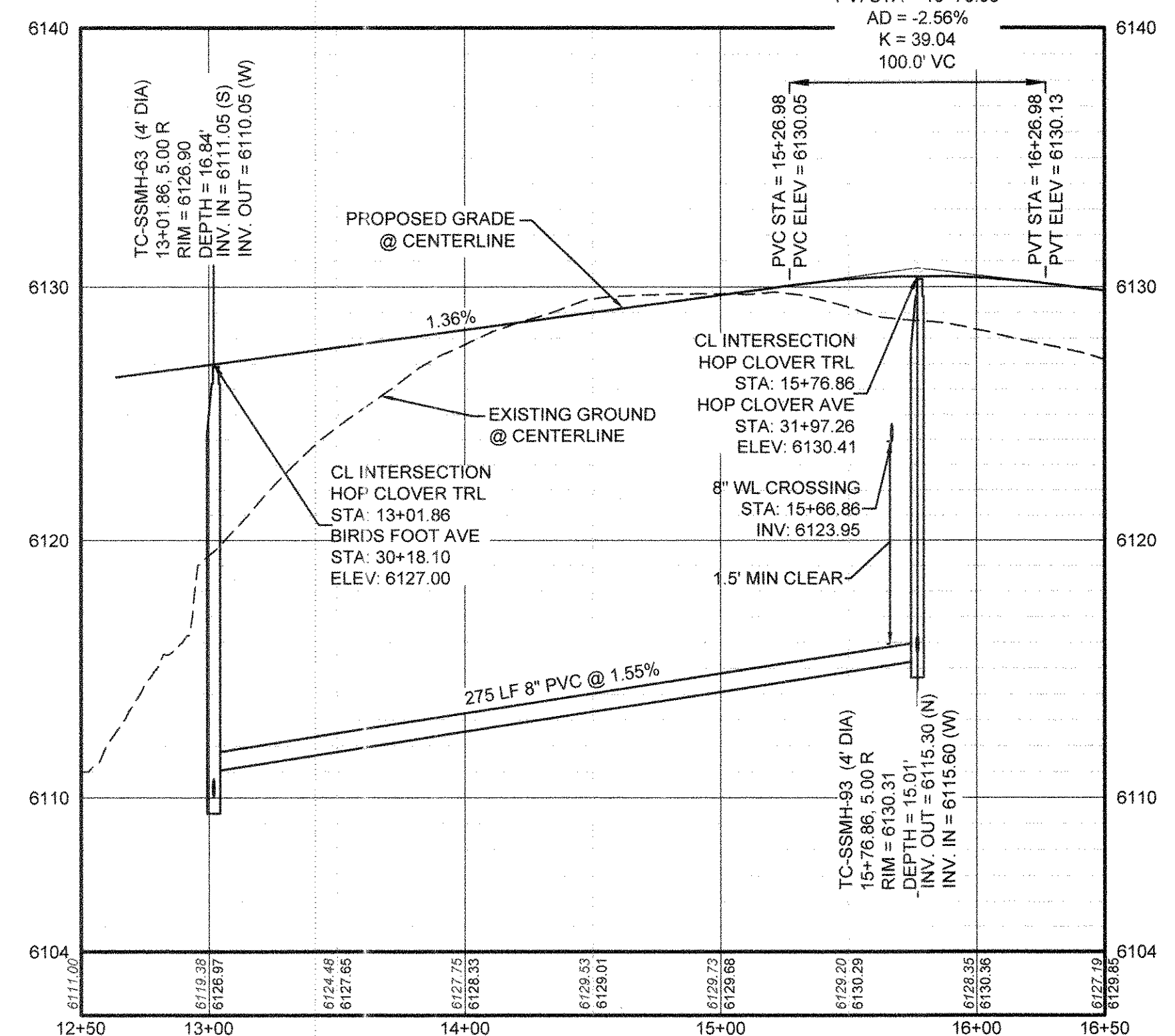
	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE		CENTERLINE
	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE		PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT		EXISTING 5' CONTOUR
	PROPOSED W/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
	PROPOSED DESIGN ELEVATION		EXISTING FIBER OPTIC LINE
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PROFILE: BIRDS FOOT AVE STA: 24+00.00 TO 31+00.00  
HORIZONTAL: 1" = 50'  
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PROFILE: HOP CLOVER TRL STA: 12+50.00 TO 16+50.00  
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**BENCHMARK**  
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PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

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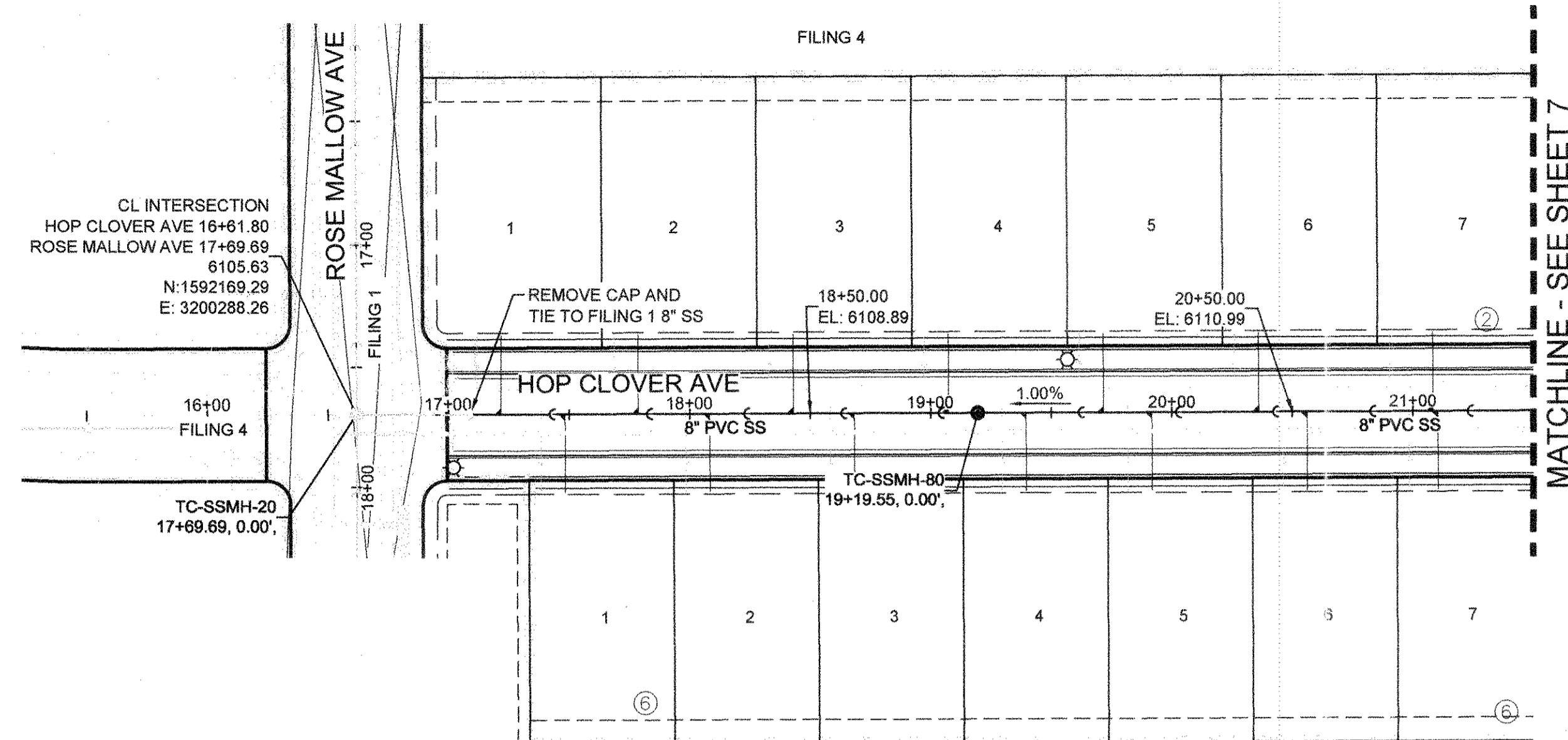
TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
BIRDFOOT AVENUE & HOP CLOVER TRAIL

SCALE: AS SHOWN  
FILE NO: 8130283701

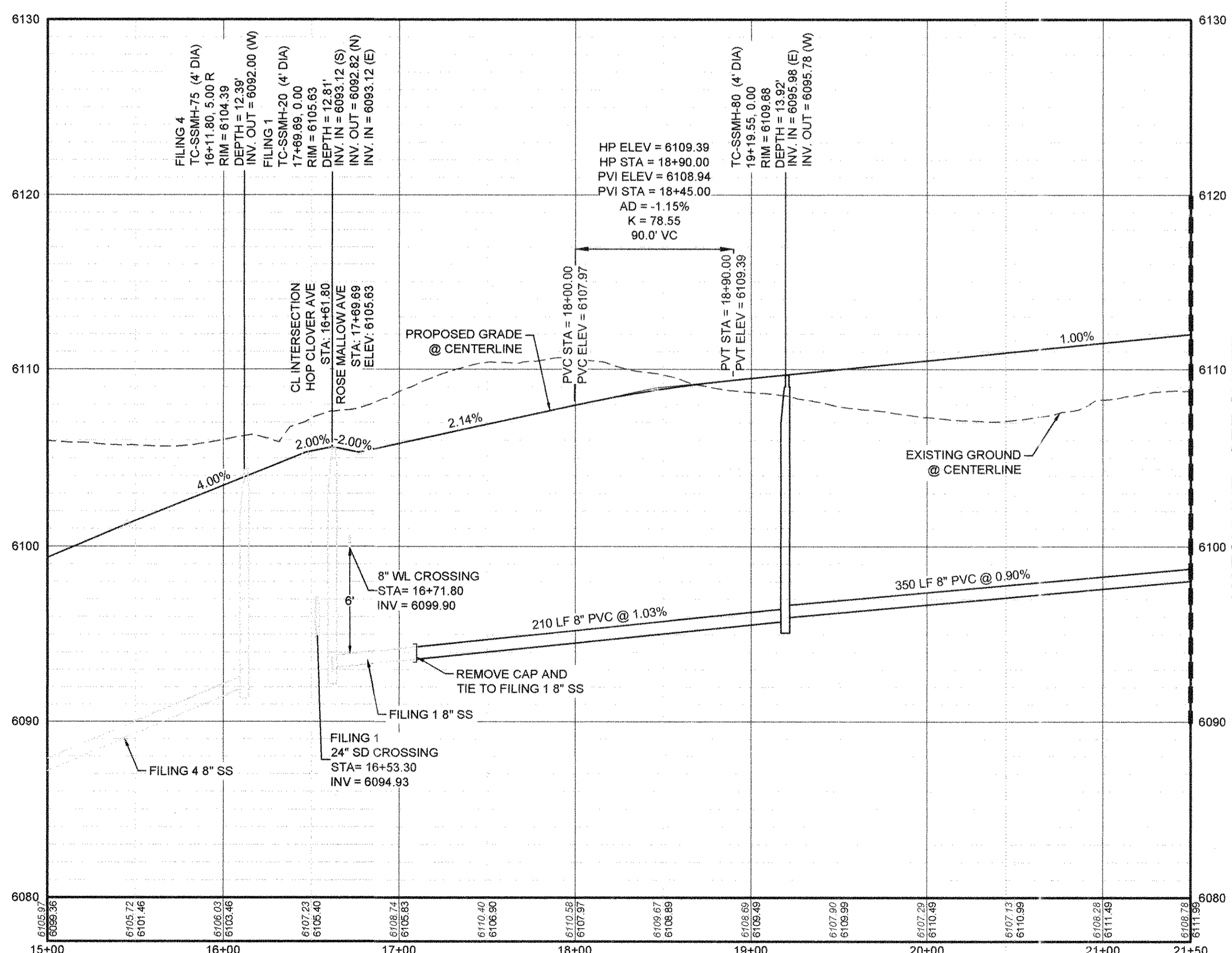
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DATE: AUGUST 2017

SHEET NUMBER: 5

Revisions: No. Date Appr. Date

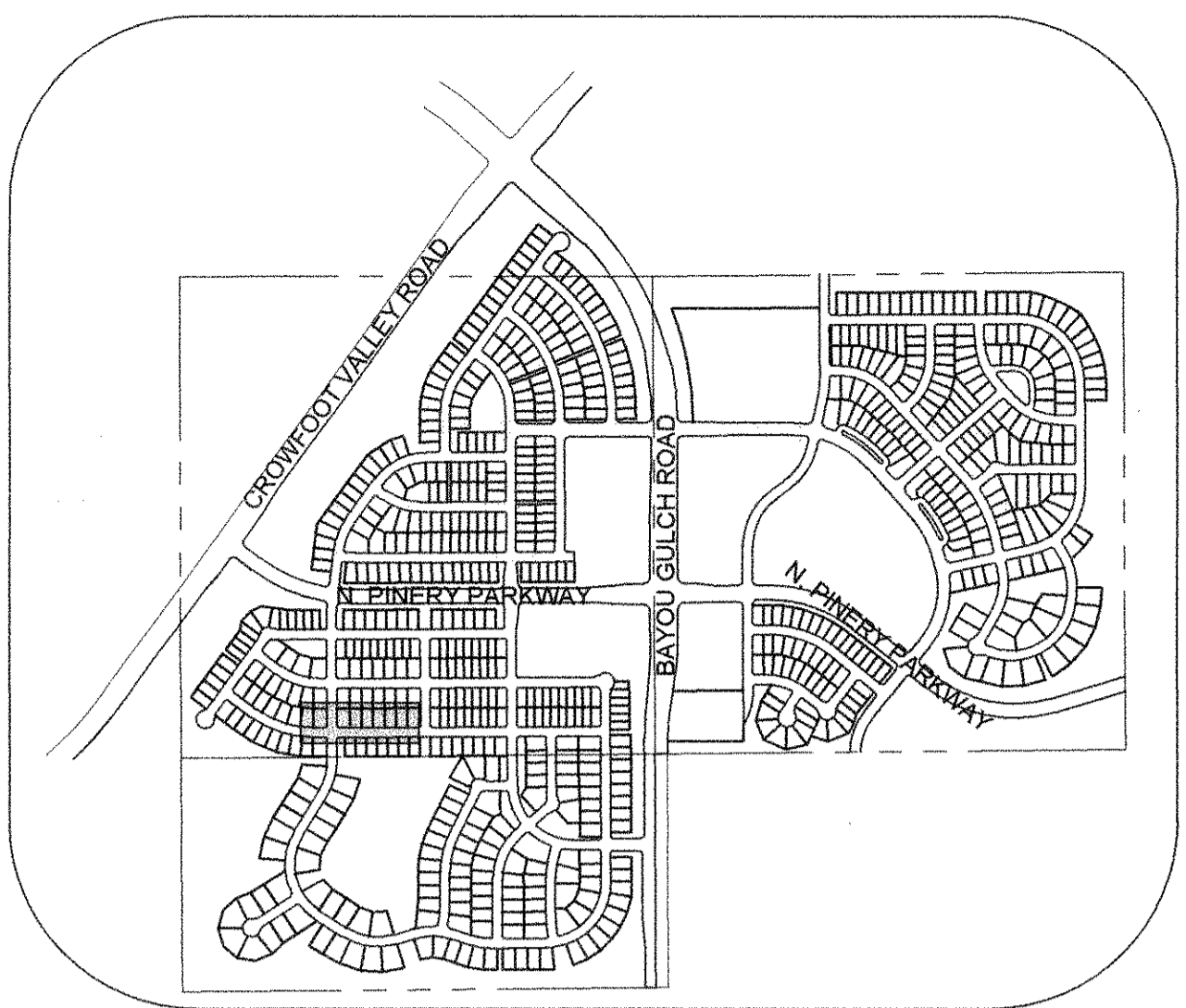


PLAN: HOP CLOVER AVENUE STA: 15+00.00 TO 21+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: HOP CLOVER AVENUE STA: 15+00.00 TO 21+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F5,B2,L1	HOP CLOVER AVE	17+21.78
F5,B2,L2	HOP CLOVER AVE	17+78.65
F5,B2,L3	HOP CLOVER AVE	18+43.00
F5,B2,L4	HOP CLOVER AVE	19+07.35
F5,B2,L5	HOP CLOVER AVE	19+71.70
F5,B2,L6	HOP CLOVER AVE	20+36.05
F5,B2,L7	HOP CLOVER AVE	21+08.30
F5,B6,L1	HOP CLOVER AVE	17+48.30
F5,B6,L2	HOP CLOVER AVE	18+08.30
F5,B6,L3	HOP CLOVER AVE	18+68.30
F5,B6,L4	HOP CLOVER AVE	19+39.55
F5,B6,L5	HOP CLOVER AVE	19+91.70
F5,B6,L6	HOP CLOVER AVE	20+56.05
F5,B6,L7	HOP CLOVER AVE	21+10.30



KEYMAP  
N.T.S.  
LEGEND

⓪	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	5620	PROPOSED 5' CONTOUR
Ⓜ	PROPOSED LOW POINT BLOW-OFF	5607	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	---	OPTIC LINE
Ⓜ	PROPOSED STORM DRAIN MANHOLE	---	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

CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
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.

**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  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

DATE	
APPR.	
DATE	
INIT.	
DATE	
APPR.	
DATE	
INIT.	
DATE	
APPR.	
NO.	
REVISIONS	
NO.	
REVISIONS	
NO.	
REVISIONS	

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

**CVL**  
CONSULTANTS

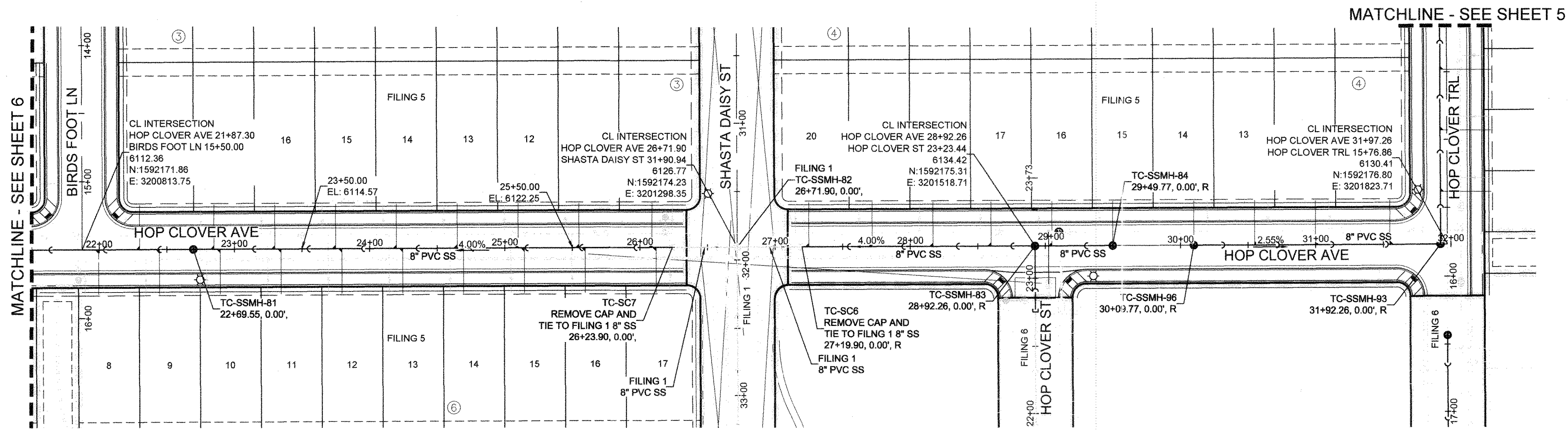
HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
HOP CLOVER AVENUE

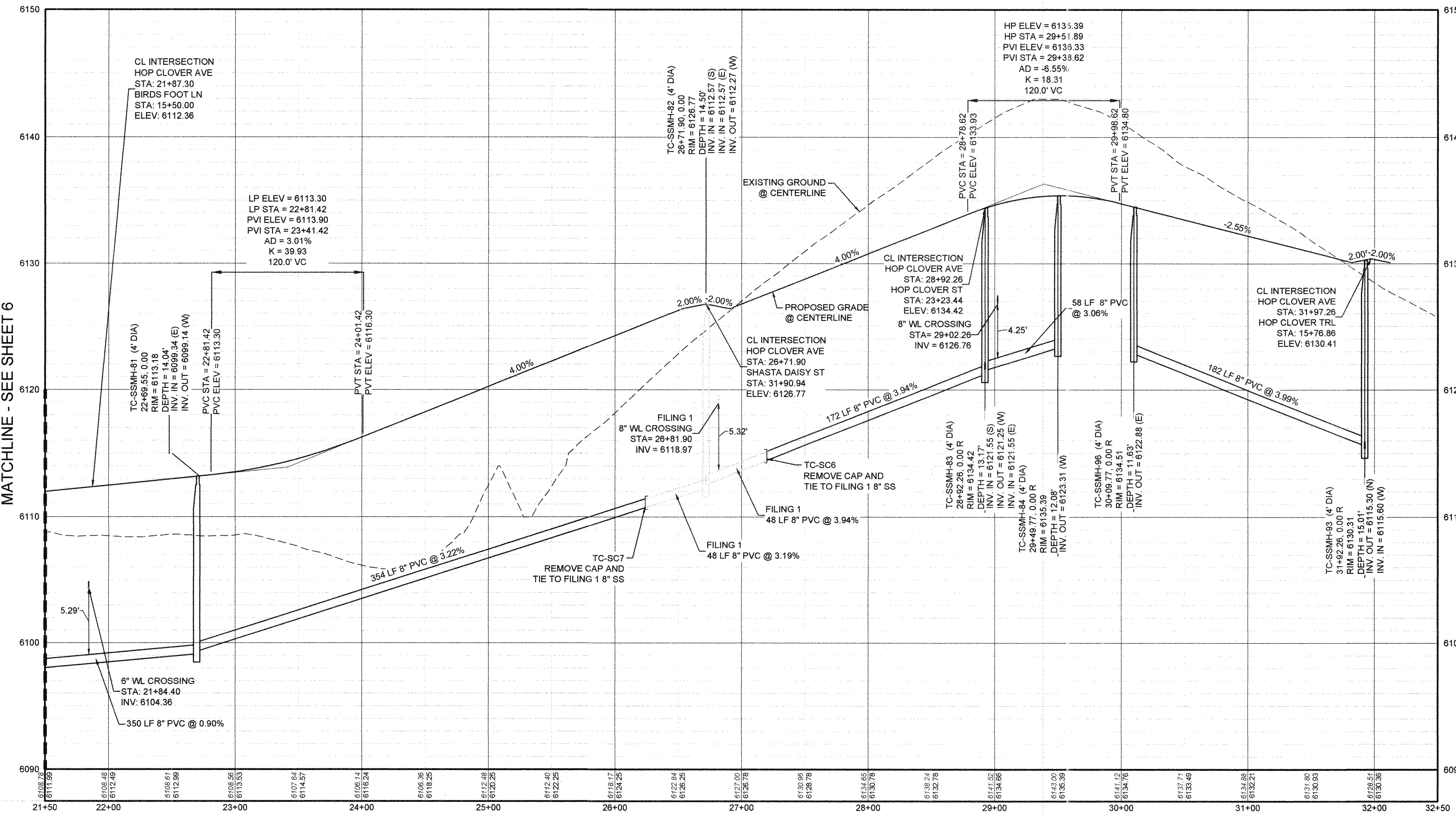
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CHECKED BY: JW  
DATE: AUGUST 2017

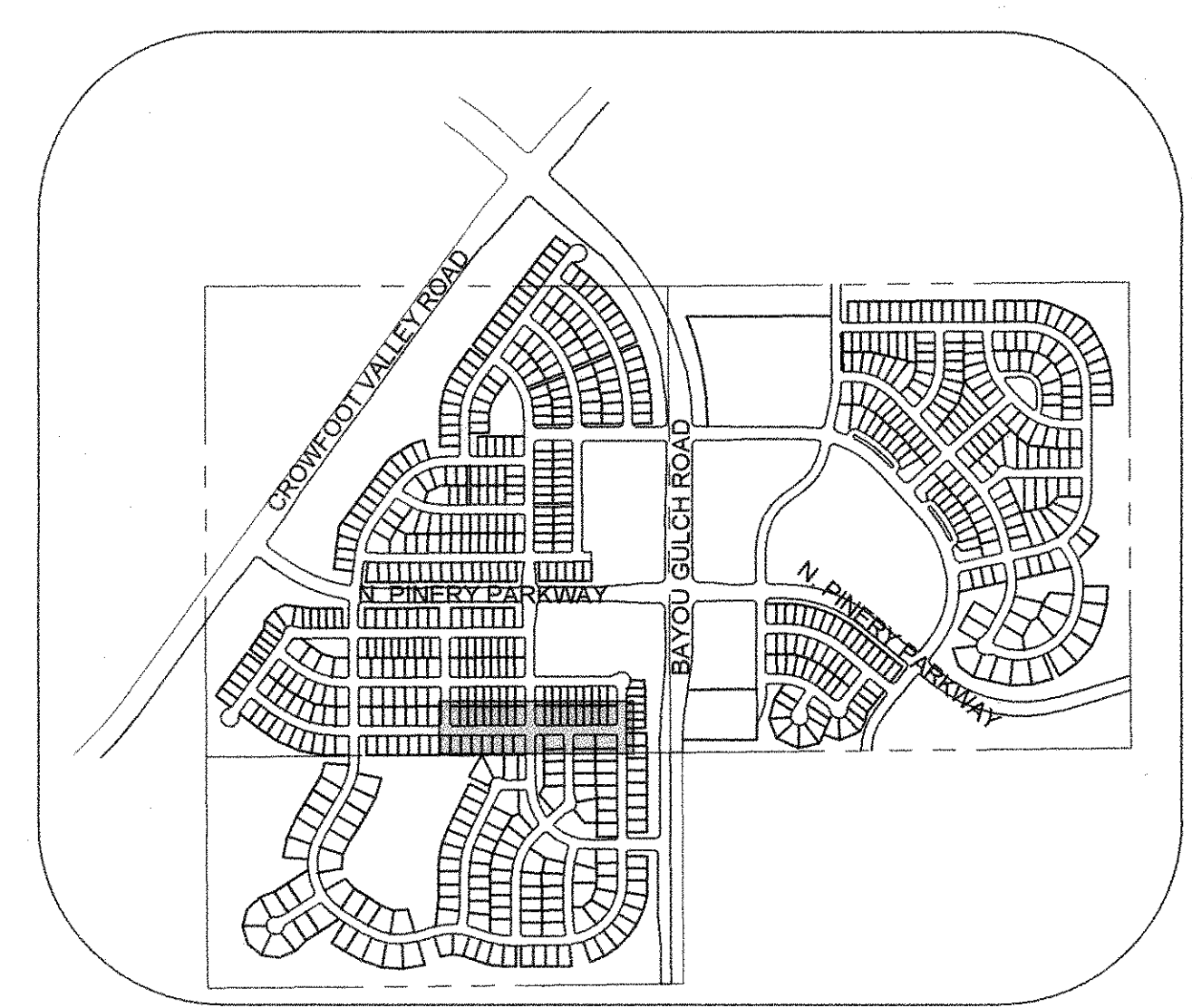
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PLAN: HOP CLOVER AVENUE STA: 21+50.00 TO 32+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: HOP CLOVER AVENUE STA: 21+50.00 TO 32+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



KEYMAP  
N.T.S.  
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊕	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊖	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊙	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
⊕	PROPOSED WL FITTING WITH THRUST BLOCK	---	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	---	PROPOSED 5' CONTOUR
⊕	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 1' CONTOUR
⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊕	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK	---	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

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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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
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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 F5, B3, L10-18 & F5, B4, L11-20 & F5, B6, L8-17 FOR SANITARY SERVICE TABLES.

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

APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

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 '83 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.

CALL 811  
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1-800-922-1987

10333 E. Dry Creek Rd., Suite 240, Englewood, CO 80112, Tel: (720) 462-9226, Fax: (720) 462-9546

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

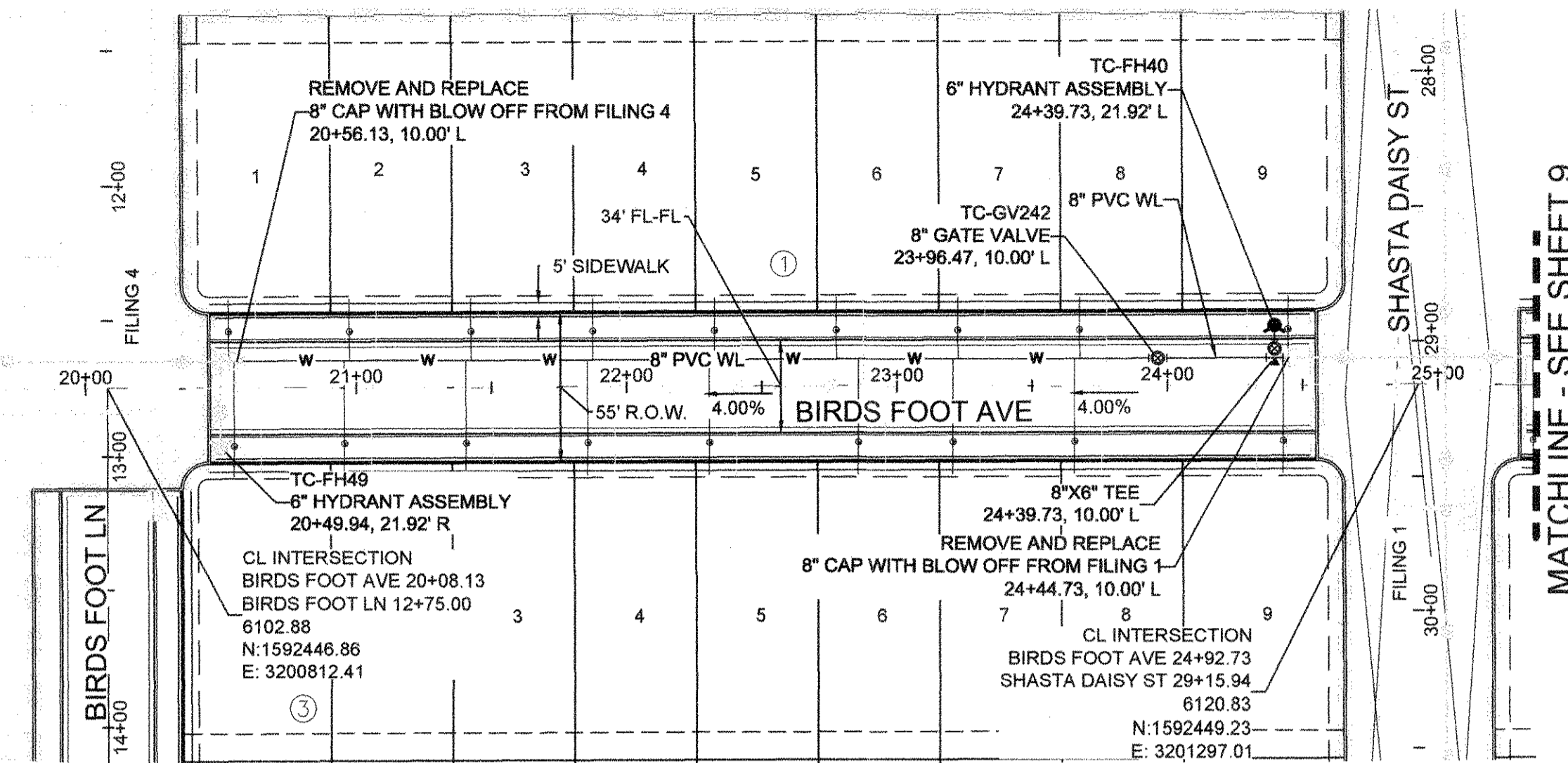
TRAILS AT CROWFOOT  
FLING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
HOP CLOVER AVENUE

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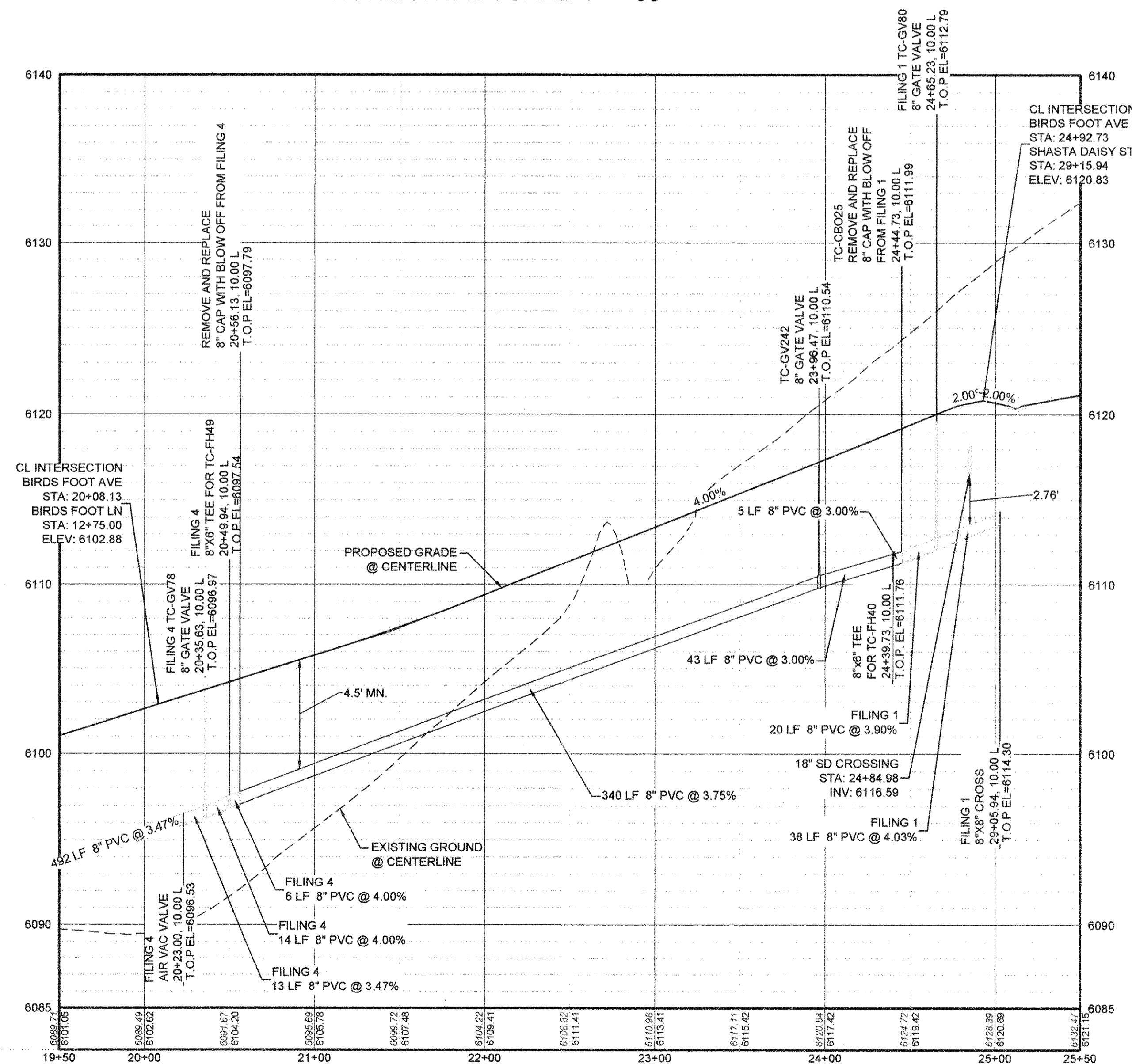
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DATE: AUGUST 2017

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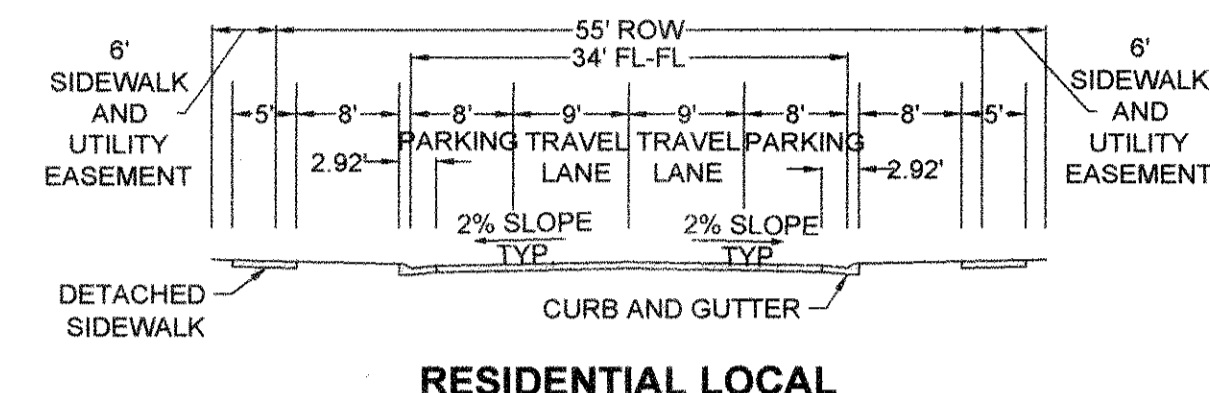
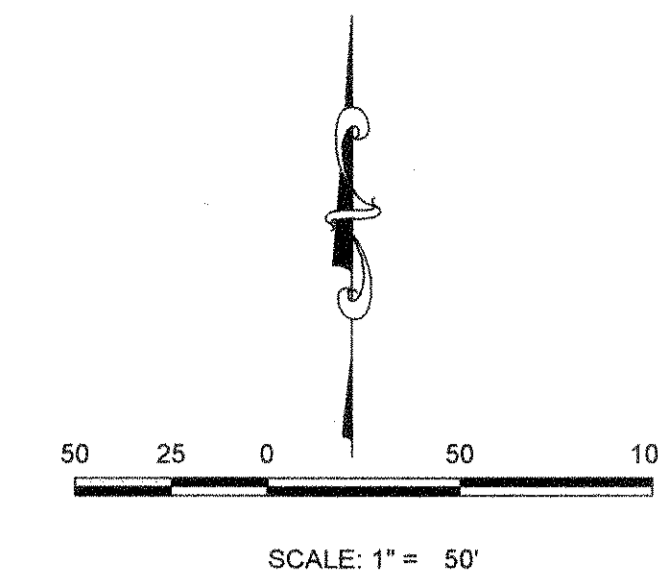
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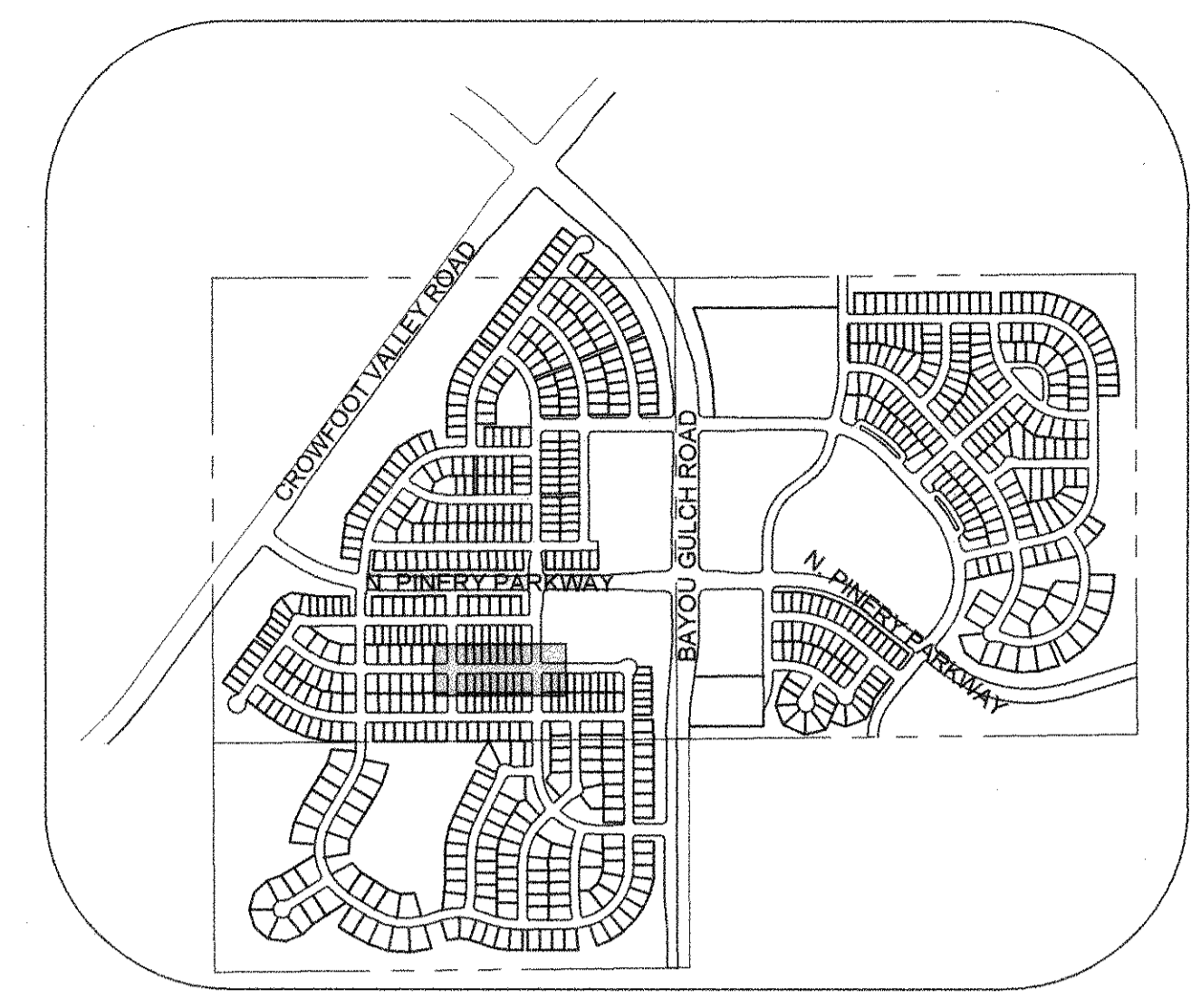
PLAN: BIRDS FOOT AVE STA: 19+50.00 TO 25+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: BIRDS FOOT AVE STA: 19+50.00 TO 25+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



RESIDENTIAL LOCAL



KEYMAP  
N.T.S.  
LEGEND

FILING, BLOCK, LOT	STREET	STATIONING
F5,B1,L1	BIRDS FOOT AVE	20+52.94
F5,B1,L2	BIRDS FOOT AVE	20+97.63
F5,B1,L3	BIRDS FOOT AVE	21+42.63
F5,B1,L4	BIRDS FOOT AVE	21+87.63
F5,B1,L5	BIRDS FOOT AVE	22+32.63
F5,B1,L6	BIRDS FOOT AVE	22+77.63
F5,B1,L7	BIRDS FOOT AVE	23+22.63
F5,B1,L8	BIRDS FOOT AVE	23+67.63
F5,B1,L9	BIRDS FOOT AVE	24+44.73
F5,B3,L1	BIRDS FOOT AVE	20+54.94
F5,B3,L2	BIRDS FOOT AVE	20+95.63
F5,B3,L3	BIRDS FOOT AVE	21+40.63
F5,B3,L4	BIRDS FOOT AVE	21+85.63
F5,B3,L5	BIRDS FOOT AVE	22+30.63
F5,B3,L6	BIRDS FOOT AVE	22+85.63
F5,B3,L7	BIRDS FOOT AVE	23+20.63
F5,B3,L8	BIRDS FOOT AVE	23+65.63
F5,B3,L9	BIRDS FOOT AVE	24+42.73

**LEGEND**

- 2 BLOCK NUMBER
- A LOT TYPE
- 6 PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- 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
- 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
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BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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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  
AUG 14 2013  
PARKER WATER AND SANITATION DISTRICT

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

**CVL**  
CONSULTANTS

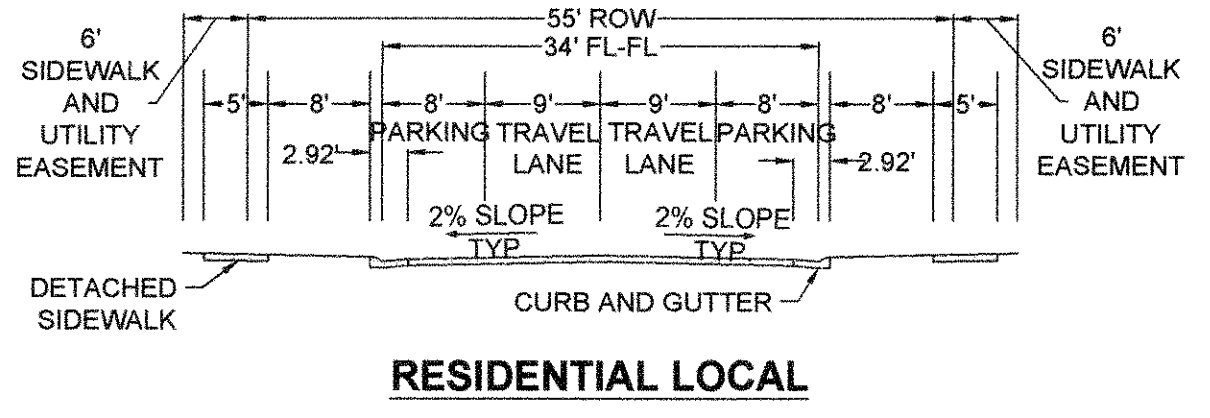
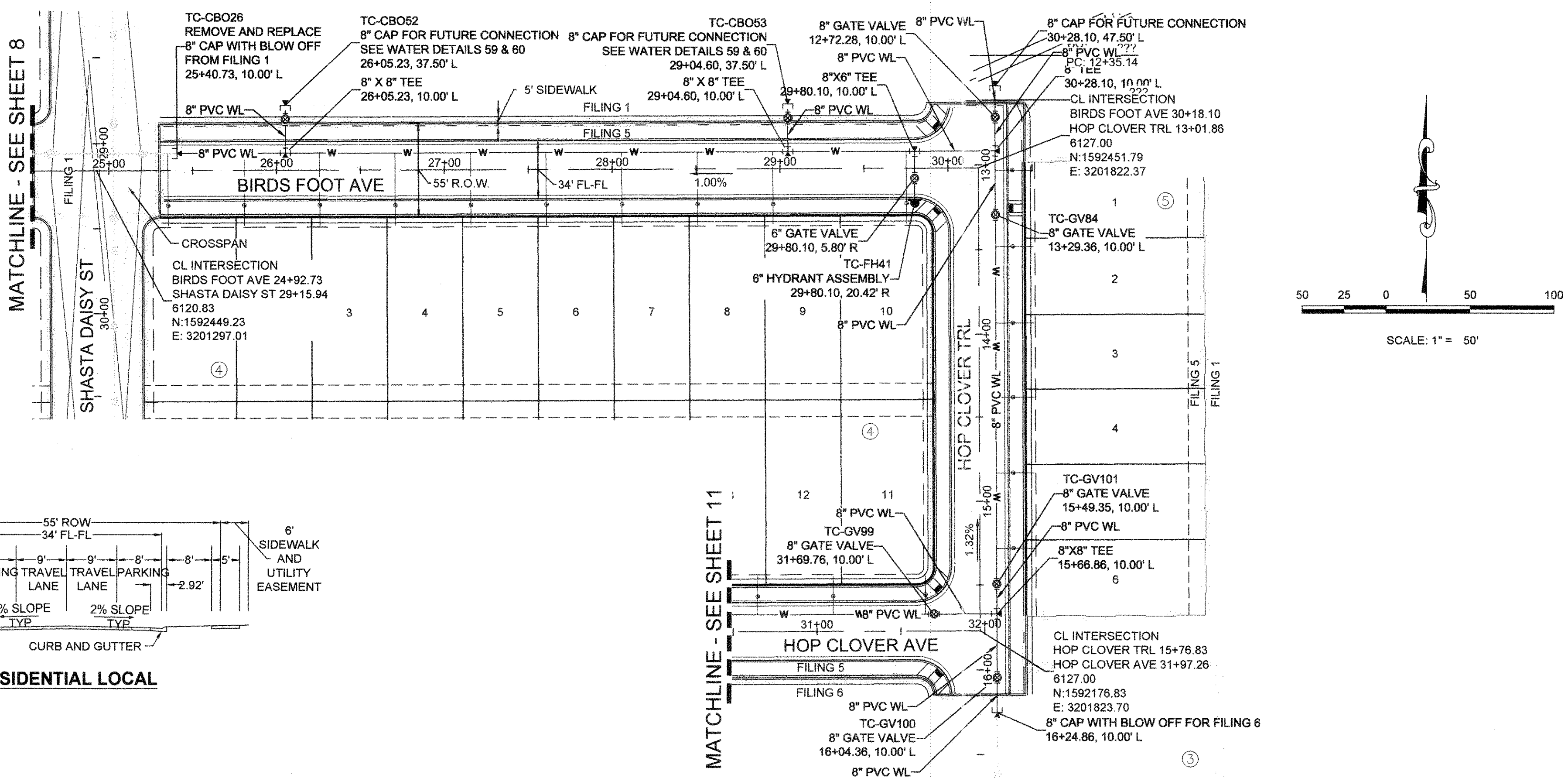
HR 935 LLC  
7355 South Alton Way  
CENTENNIAL, CO 80112

**TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
BIRDS FOOT AVENUE**

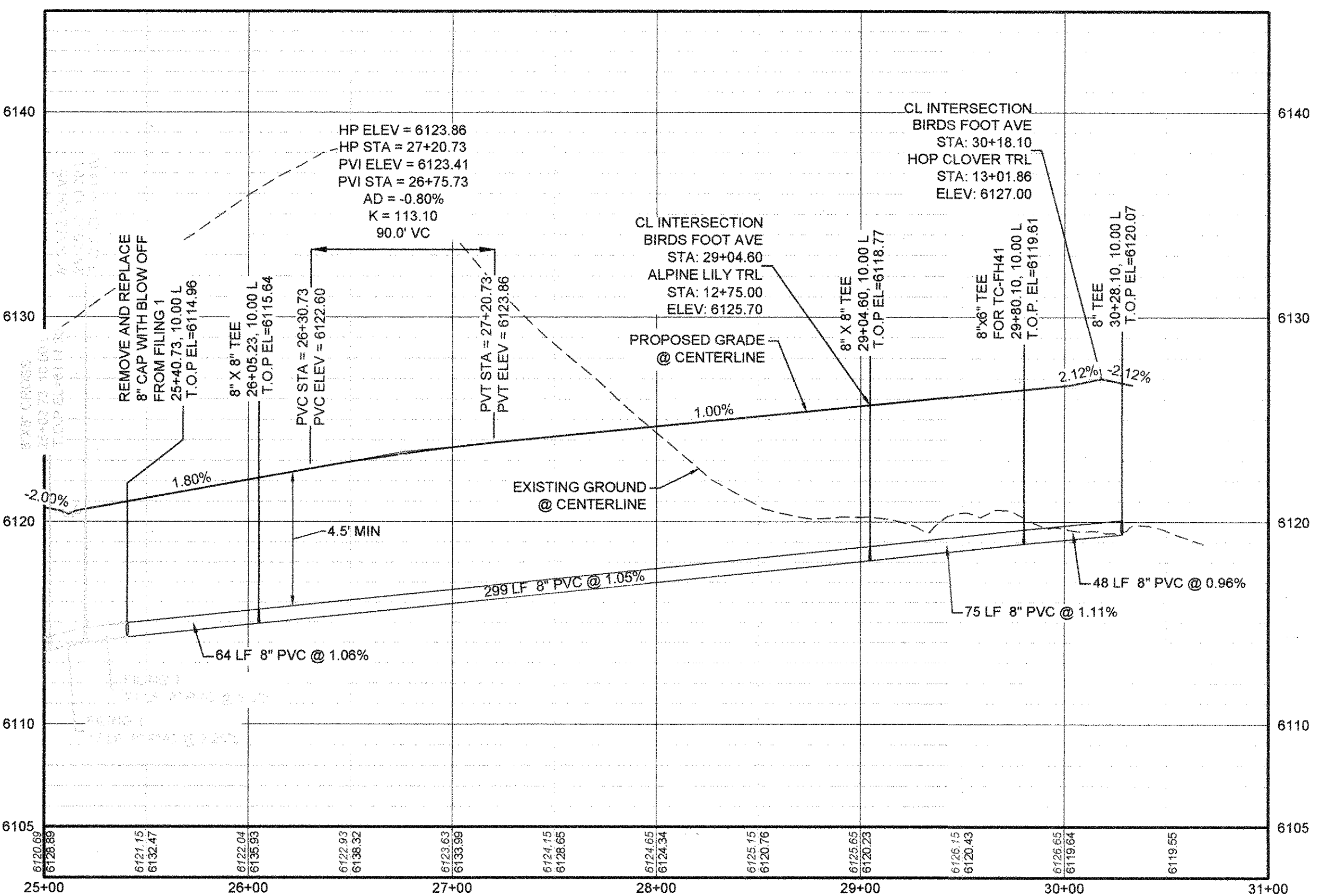
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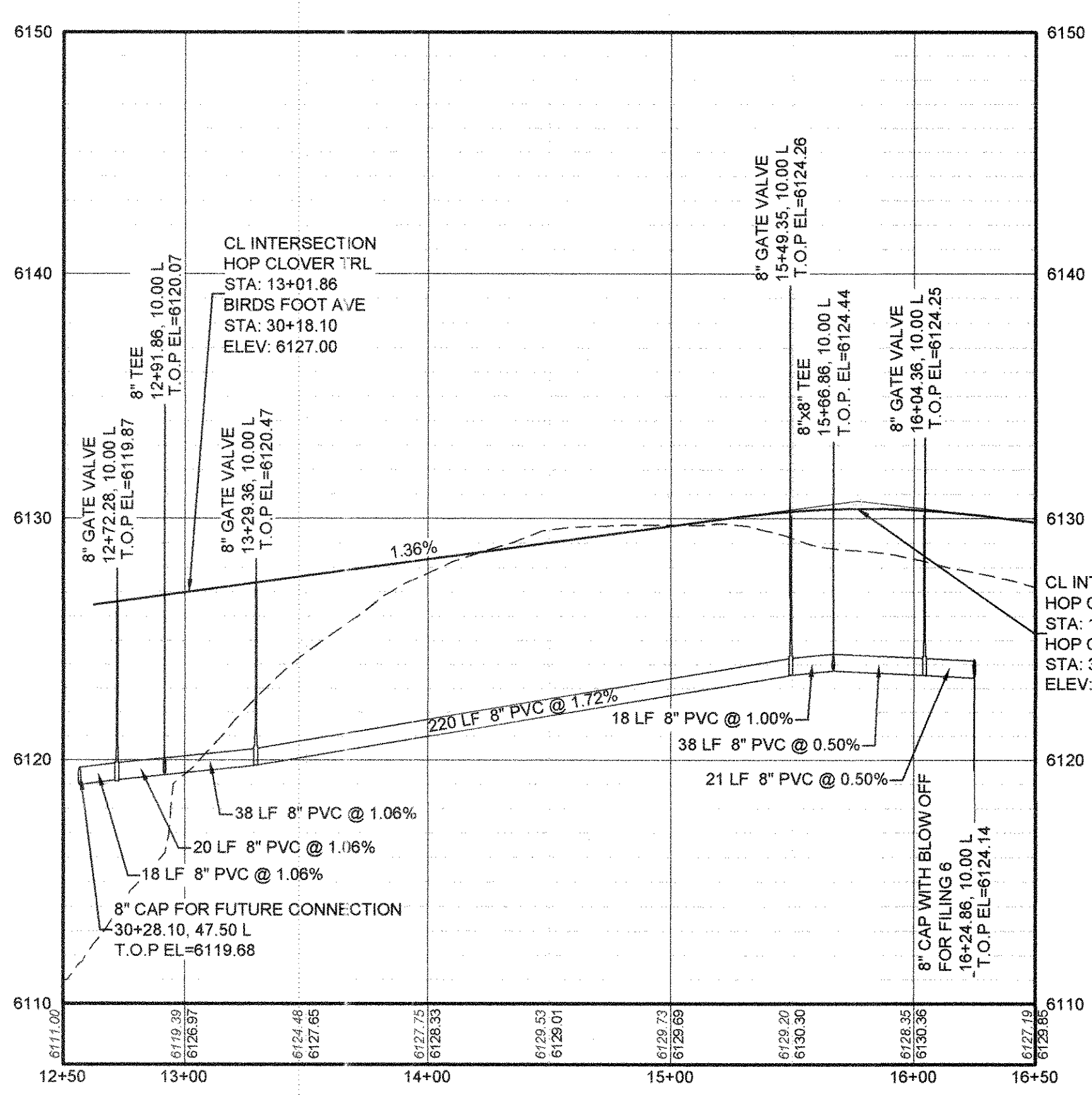
WATER SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F5.B4.L1	BIRDS FOOT AVE	25+35.24
F5.B4.L2	BIRDS FOOT AVE	26+80.60
F5.B4.L3	BIRDS FOOT AVE	26+25.60
F5.B4.L4	BIRDS FOOT AVE	26+70.60
F5.B4.L5	BIRDS FOOT AVE	27+15.60
F5.B4.L6	BIRDS FOOT AVE	27+60.60
F5.B4.L7	BIRDS FOOT AVE	28+05.60
F5.B4.L8	BIRDS FOOT AVE	28+50.60
F5.B4.L9	BIRDS FOOT AVE	28+95.60
F5.B4.L10	BIRDS FOOT AVE	29+75.10
F5.B5.L1	HOP CLOVER TRL	13+03.24
F5.B5.L2	HOP CLOVER TRL	13+48.24
F5.B5.L3	HOP CLOVER TRL	13+93.24
F5.B5.L4	HOP CLOVER TRL	14+38.24
F5.B5.L5	HOP CLOVER TRL	14+83.24
F5.B5.L6	HOP CLOVER TRL	15+28.24



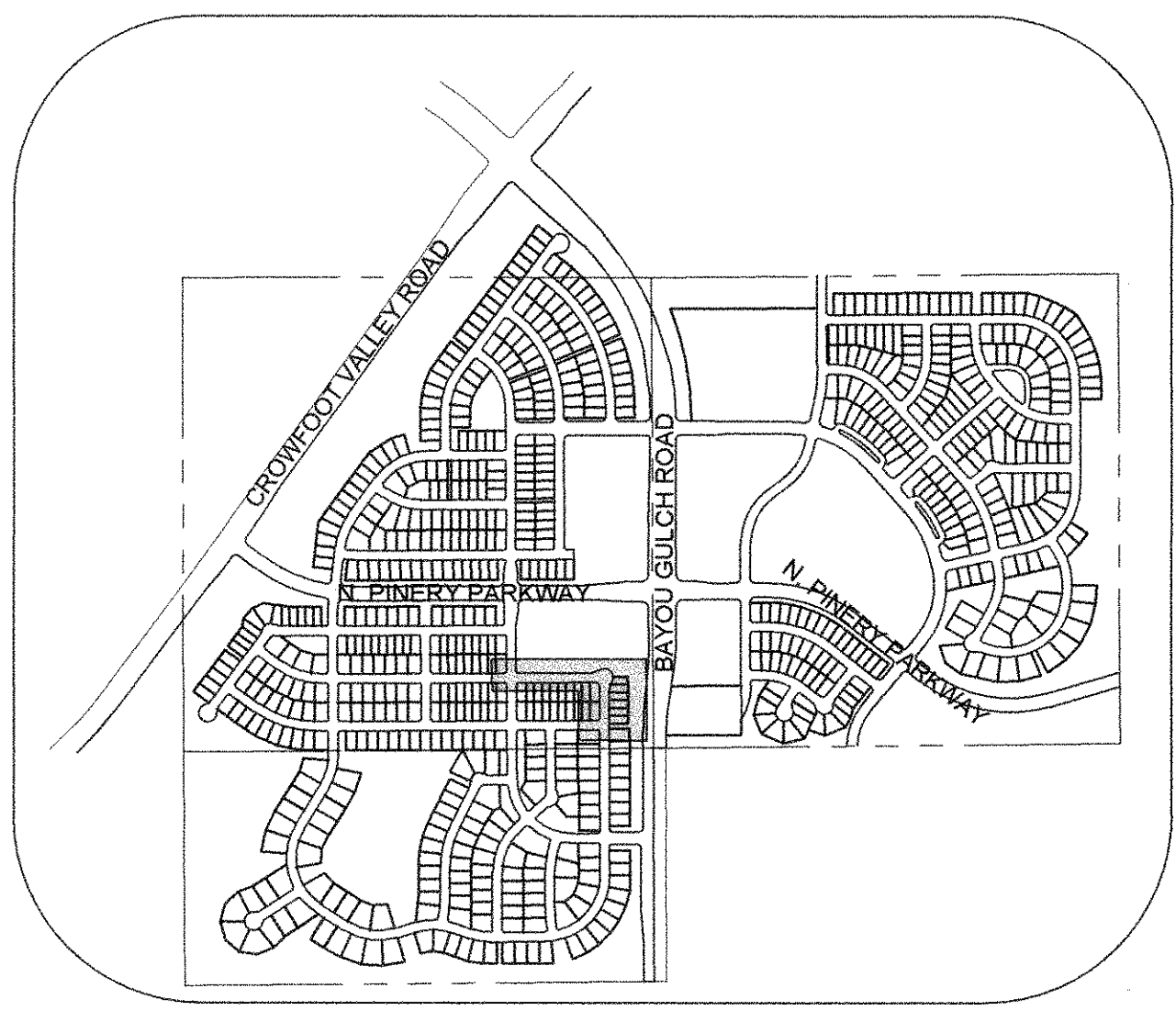
PLAN: BIRDS FOOT AVE STA: 25+00.00 TO 31+00.00 & HOP CLOVER TRL STA: 12+50.00 TO 16+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: BIRDS FOOT AVE STA: 25+00.00 TO 31+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER TRL STA: 12+50.00 TO 16+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



KEYMAP  
N.T.S.  
LEGEND

- |       |                                       |      |                            |                                  |
|-------|---------------------------------------|------|----------------------------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT       |                                  |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                 |                                  |
| 6     | LOT NUMBER                            | ---  | RIGHT-OF-WAY               |                                  |
| ⊗     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE              |                                  |
| ⊞     | PROPOSED CAP WITH END OF LINE BLOWOFF | ---  | EDGE OF PAVEMENT           |                                  |
| ⊞     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW |                                  |
| ⊞     | PROPOSED VALVE                        | 1.0% | PROPOSED SLOPE & DIRECTION |                                  |
| ⊞     | PROPOSED FIRE HYDRANT                 | ---  | EXISTING 5' CONTOUR        |                                  |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | ---  | EXISTING 1' CONTOUR        |                                  |
| ⊞     | PROPOSED FLARED END SECTION           | ---  | PROPOSED 5' CONTOUR        |                                  |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | ---  | 5607                       | 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  |
| ---   | 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          |

- 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 | PVT    | POINT OF VERTICAL INTERSECTION  |
| CBO | CAP WITH BLOW OFF      | PVI    | POINT OF VERTICAL TANGENT       |
| CR  | CURB RETURN RADIUS     | RCB    | REINFORCED CONCRETE BOX CULVERT |
| CR  | CURB RETURN RADIUS     | RCP    | REINFORCED CONCRETE PIPE        |
| 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         |

PROJECT SHESS BANCHIC ENGINEERING SHEET SET DISCUS PARKER WATER AND SANITATION WATER PLAN AND PROFILES ROSE HOLLOW TRAIL WATER DNG. CDDVA. 362018 10:22 AM

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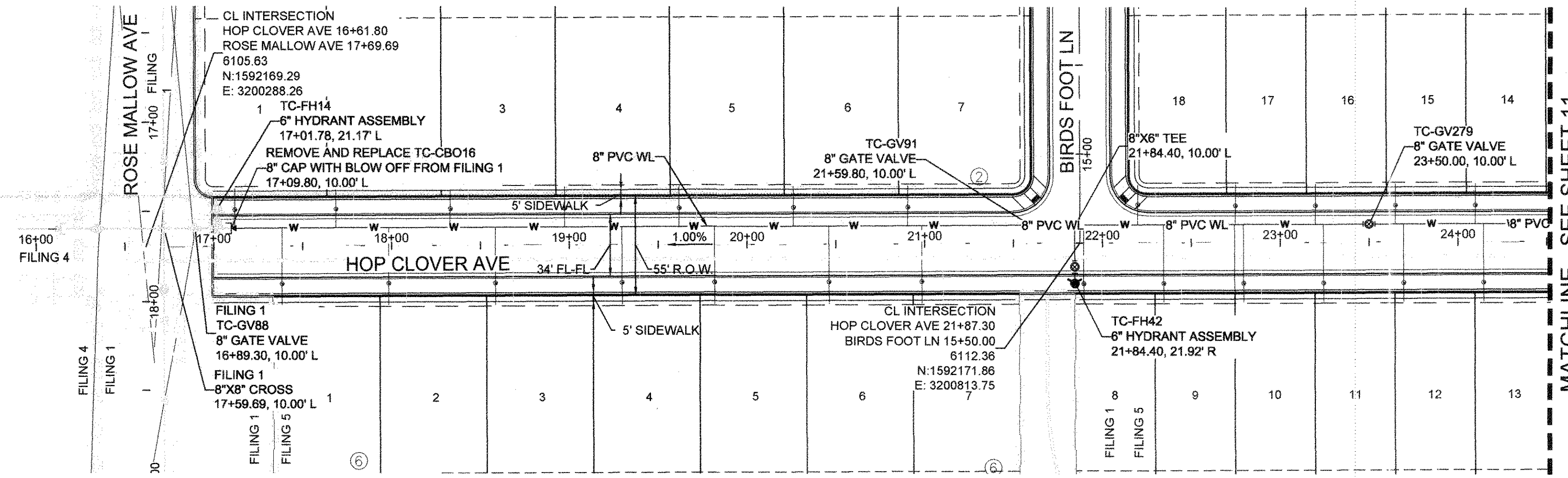
**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 8 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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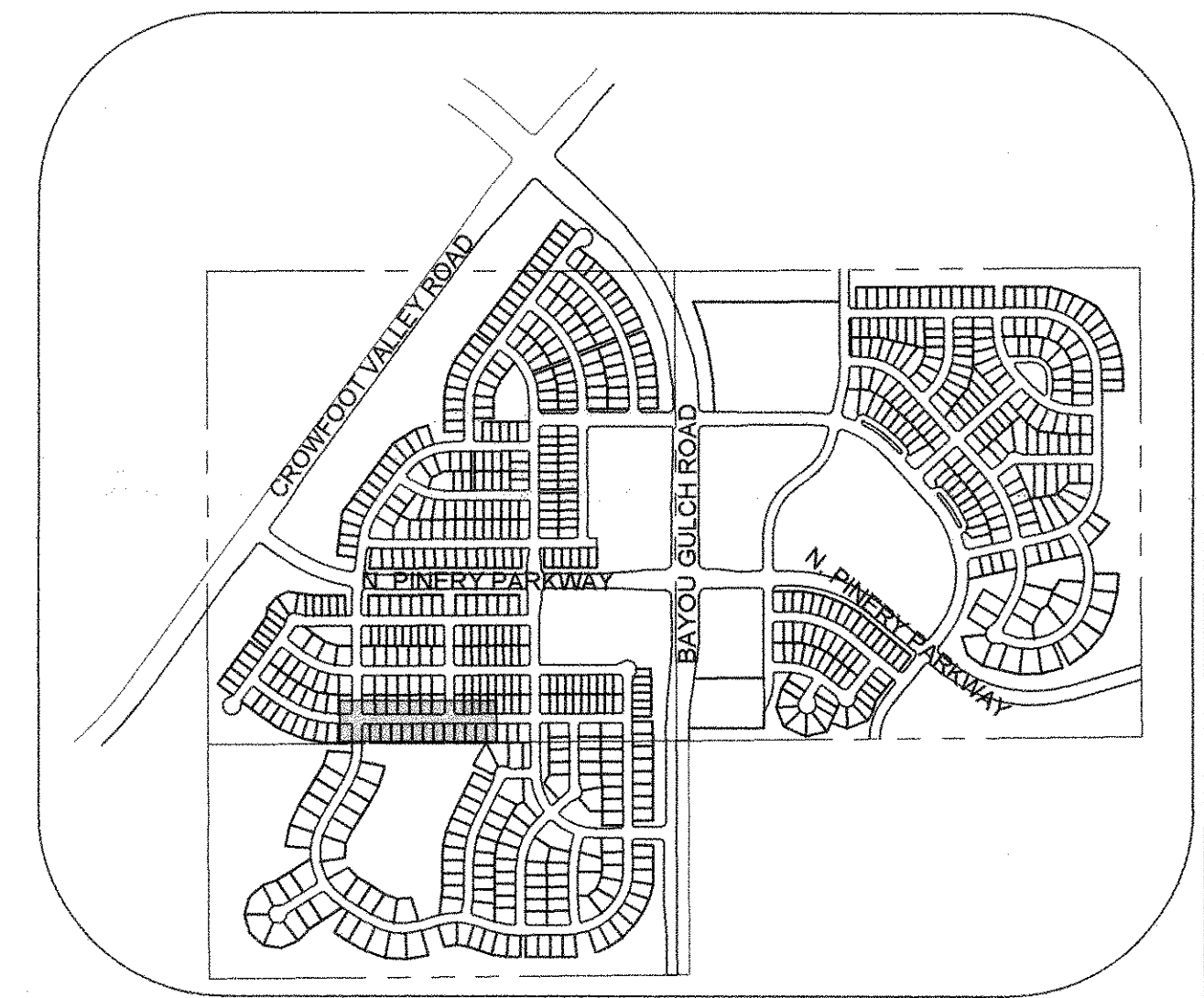
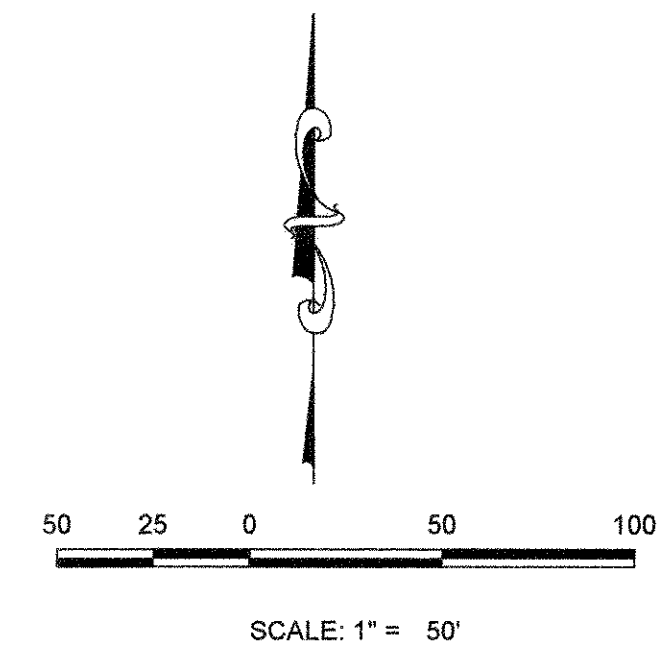
PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

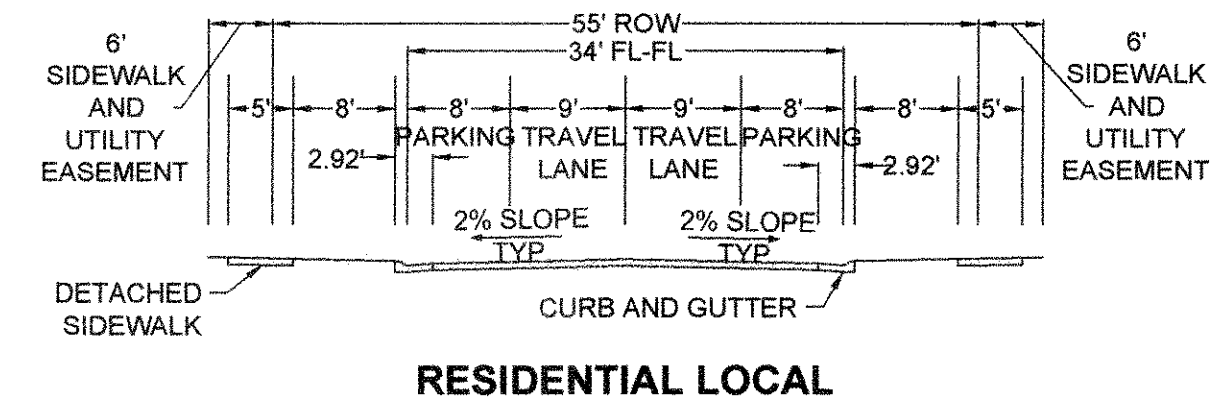
10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	Date	Appr.	Date
<b>CVL</b> CONSULTANTS				
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112				
TRAILS AT CROWFOOT FILING 5 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE BIRDFOOT AVENUE & HOP CLOVER TRAIL				
SCALE: AS SHOWN	DRAWN BY: RHR	CHECKED BY: JJJ	DATE: AUGUST 2017	SHEET NUMBER: 9
FILE NO: 8130293701				



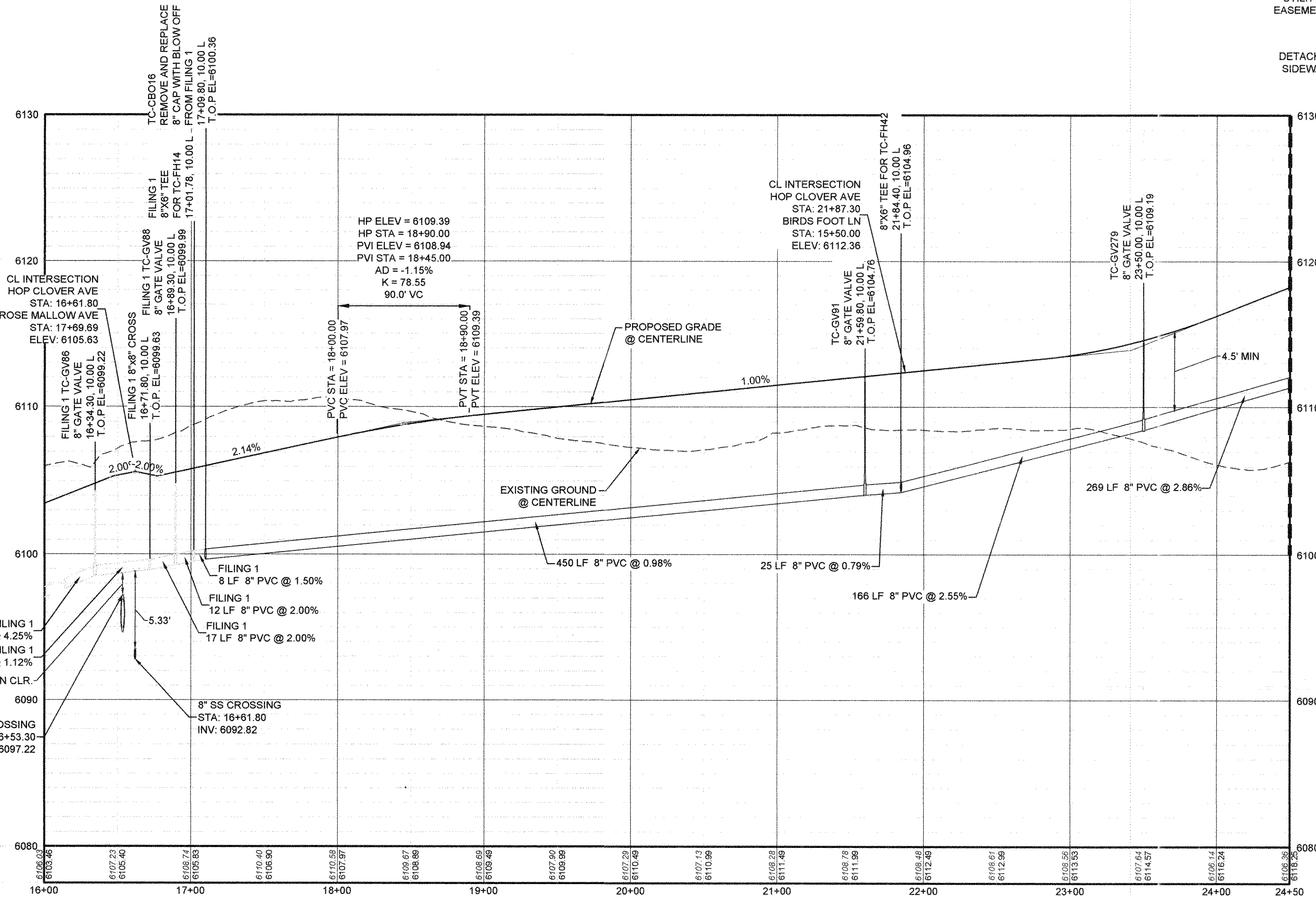
PLAN: HOP CLOVER AVE STA: 16+00.00 TO 24+50.00  
HORIZONTAL SCALE: 1" = 50'



KEYMAP  
N.T.S.



RESIDENTIAL LOCAL



PROFILE: HOP CLOVER AVE STA: 16+00.00 TO 24+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F5,B2,L1	HOP CLOVER AVE	17+11.78
F5,B2,L2	HOP CLOVER AVE	17+68.65
F5,B2,L3	HOP CLOVER AVE	18+33.00
F5,B2,L4	HOP CLOVER AVE	18+97.35
F5,B2,L5	HOP CLOVER AVE	19+61.70
F5,B2,L6	HOP CLOVER AVE	20+26.05
F5,B2,L7	HOP CLOVER AVE	20+90.40
F5,B3,L14	HOP CLOVER AVE	24+09.80
F5,B3,L15	HOP CLOVER AVE	23+64.80
F5,B3,L16	HOP CLOVER AVE	23+19.80
F5,B3,L17	HOP CLOVER AVE	22+74.80
F5,B3,L18	HOP CLOVER AVE	22+19.80
F5,B6,L1	HOP CLOVER AVE	17+38.30
F5,B6,L2	HOP CLOVER AVE	17+98.30
F5,B6,L3	HOP CLOVER AVE	18+58.30
F5,B6,L4	HOP CLOVER AVE	19+29.55
F5,B6,L5	HOP CLOVER AVE	19+81.70
F5,B6,L6	HOP CLOVER AVE	20+46.05
F5,B6,L7	HOP CLOVER AVE	20+98.30
F5,B6,L8	HOP CLOVER AVE	21+89.40
F5,B6,L9	HOP CLOVER AVE	22+34.40
F5,B6,L10	HOP CLOVER AVE	22+79.40
F5,B6,L11	HOP CLOVER AVE	23+24.40
F5,B6,L12	HOP CLOVER AVE	23+69.40

**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
- 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 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
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EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
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FG	FINISHED GROUND	SL	SECTION LINE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
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HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
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INV	INVERT	WL	WATER LINE
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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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PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

APPROVED  
AUG 14 2010  
PARKER WATER AND SANITATION DISTRICT

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

**CVL CONSULTANTS**

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

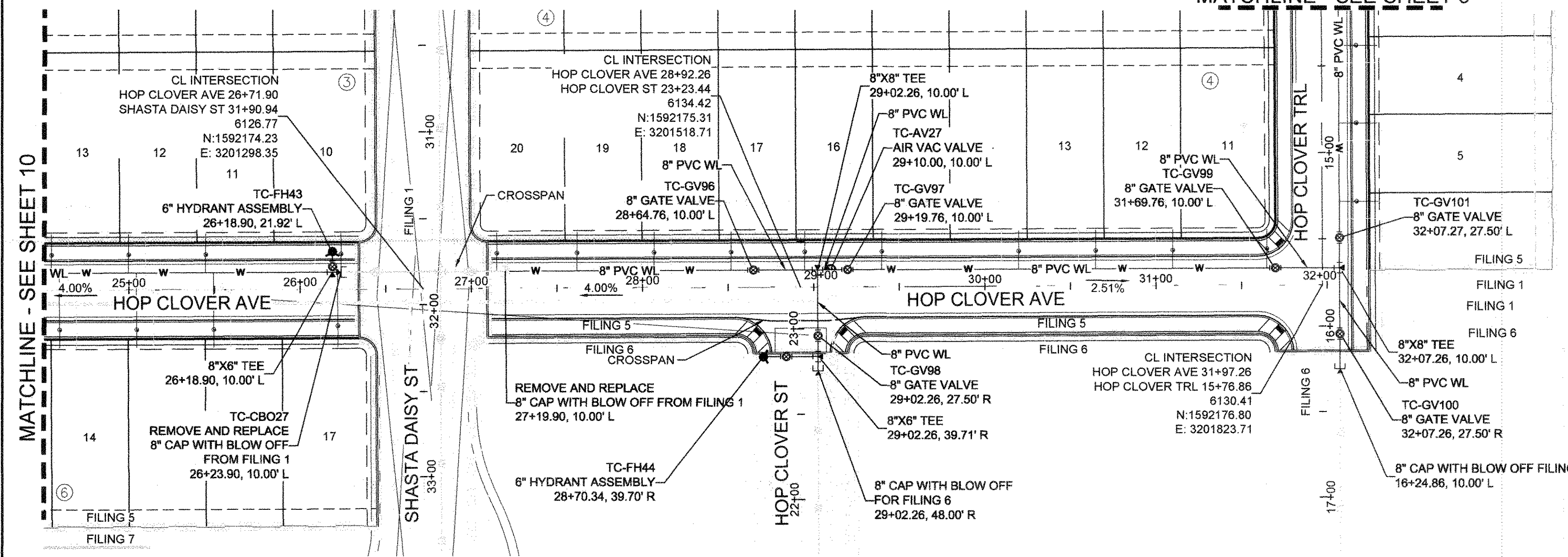
TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
HOP CLOVER AVENUE

SCALE: AS SHOWN  
DRAWN BY: RHR  
CHECKED BY: JJ  
DATE: AUGUST 2010  
FILE NO: 8130283701

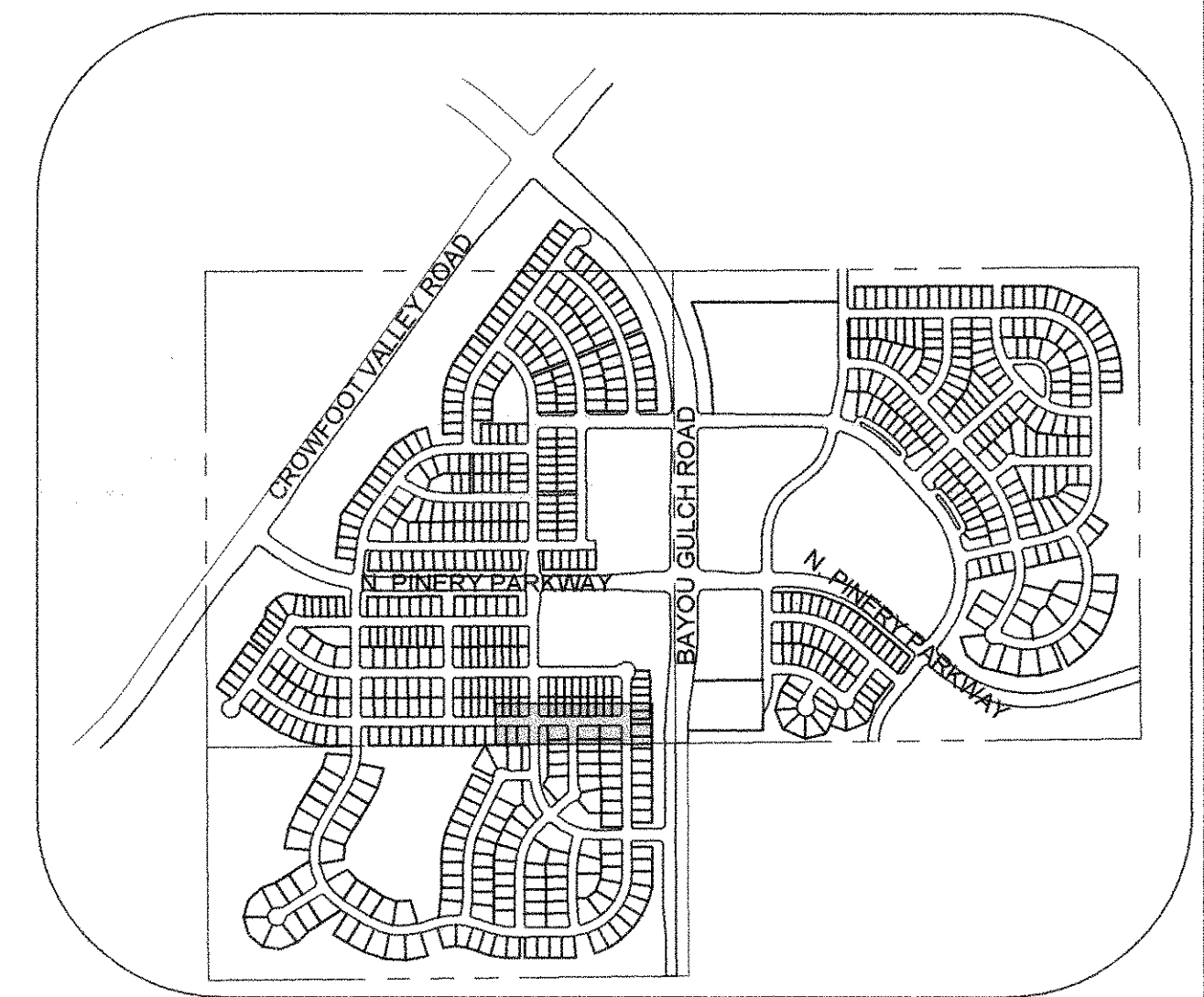
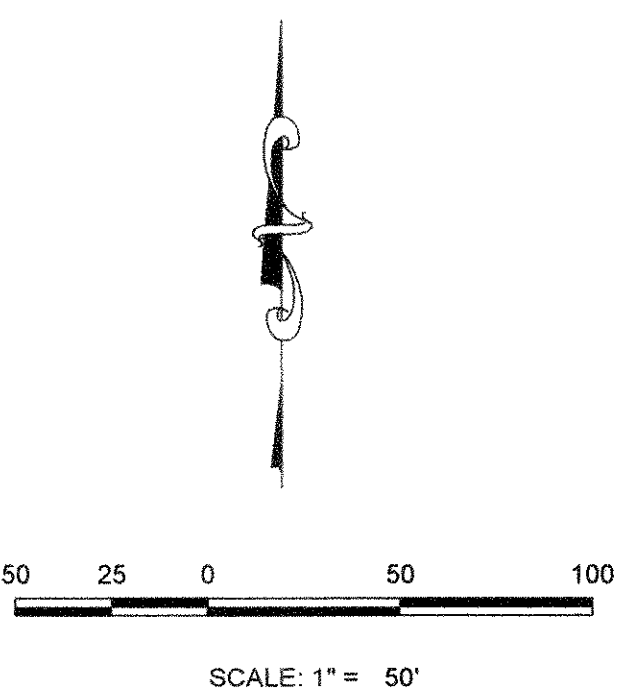
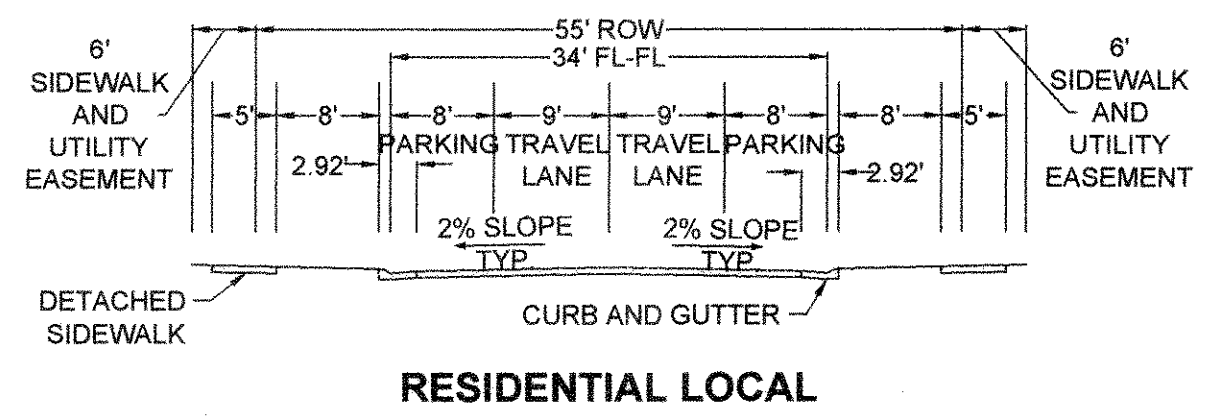
SHEET NUMBER  
**10**

Revisions: No. Date Init. Date Appr. Date

MATCHLINE - SEE SHEET 9



PLAN: HOP CLOVER AVE STA: 24+50.00 TO 32+50.00  
HORIZONTAL SCALE: 1" = 50'



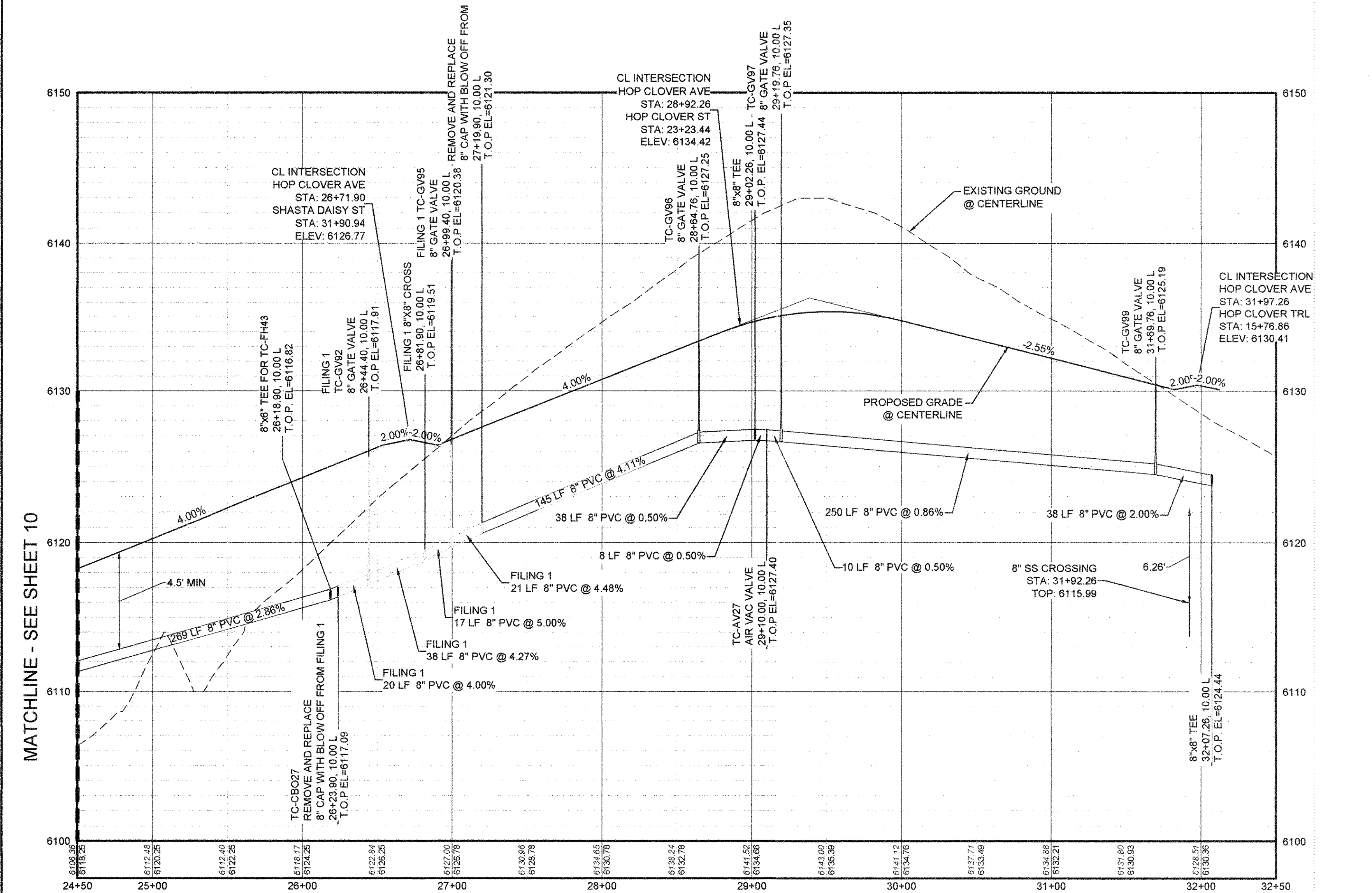
KEYMAP  
N.T.S.  
LEGEND

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 OPTIC LINE
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

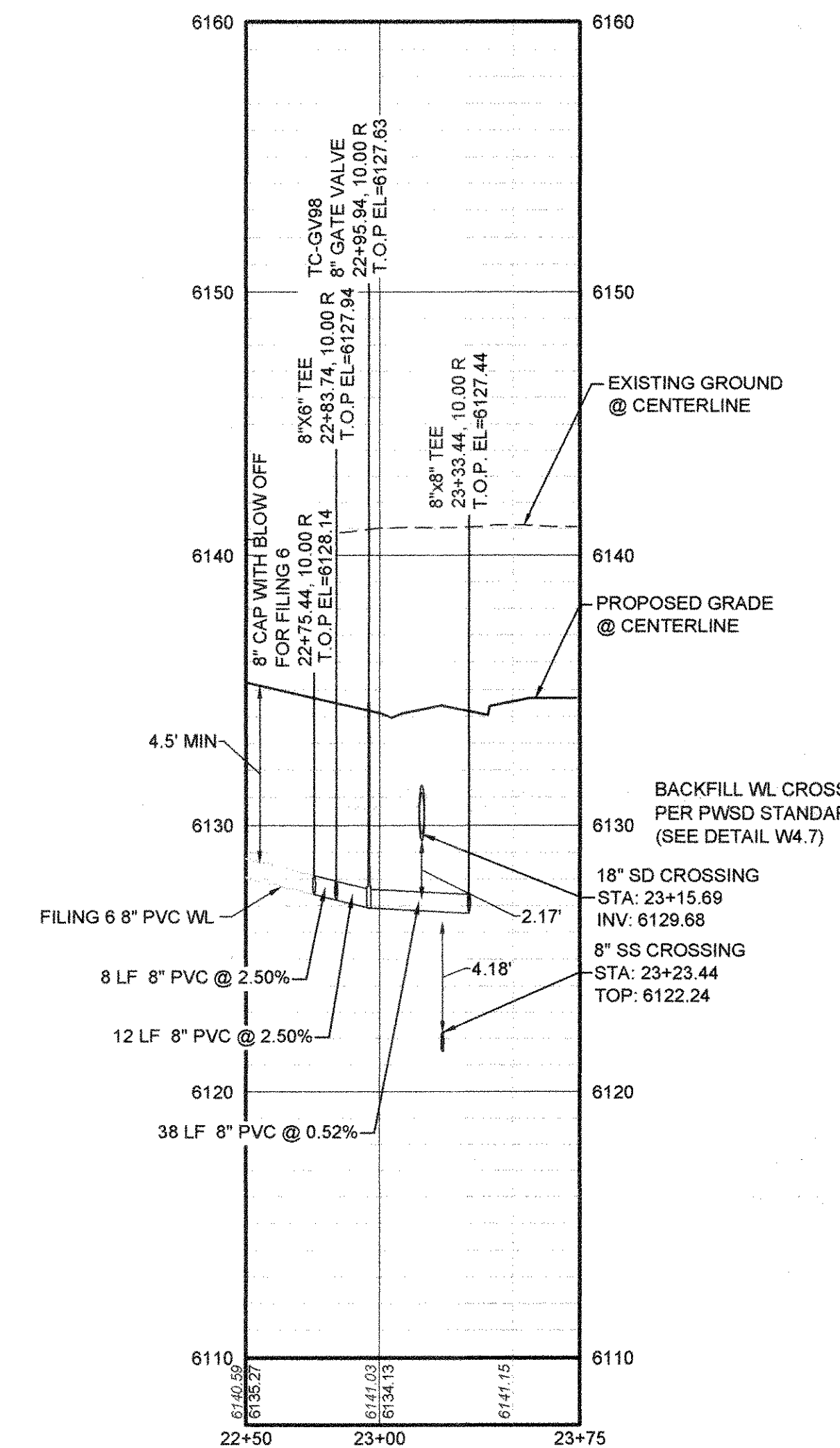
ABBREVIATIONS

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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 F5, B3, L10-13 & F5, B4, L11-20 & F5, B5, L4-6 & F5, B6, L13-17 WATER SERVICE TABLES.



PROFILE: HOP CLOVER AVE STA: 24+50.00 TO 32+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER ST STA: 22+50.00 TO 23+75.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

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

APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT

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TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
HOP CLOVER AVENUE  
SCALE: AS SHOWN  
FILE NO: 8130283701  
DRAWN BY: RHR  
CHECKED BY: JJJ  
DATE: AUGUST 2017  
SHEET NUMBER: 11

**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.

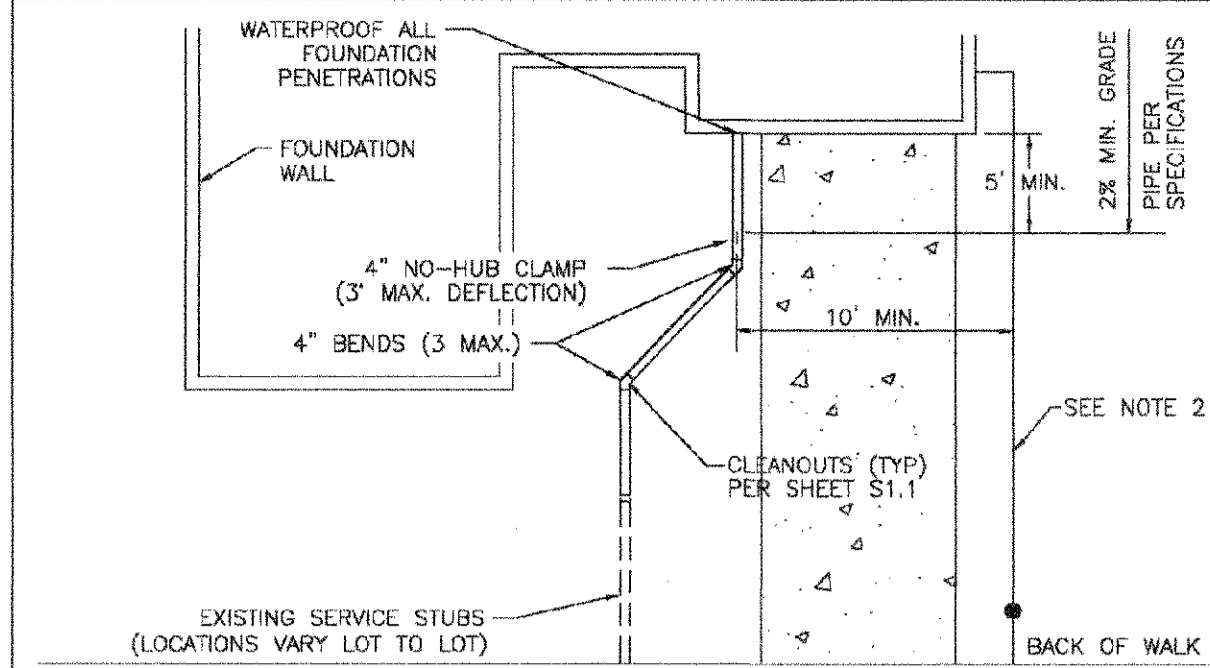
**INSTALLATION NOTES:**

**SEWER**

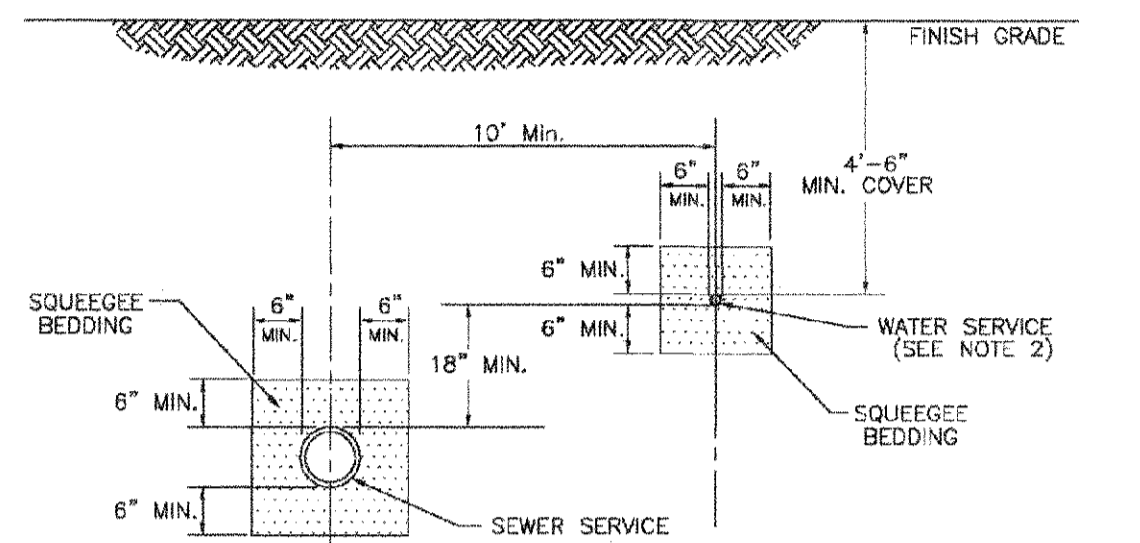
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3'.
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS 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:	DATE:
NONE	2/96
APPROVED: PVR	01/02 10/16 1/08 01/16 1/16
DIRECTOR OF ENGINEERING	

2016 REVISION



TYPICAL SERVICES PLAN VIEW

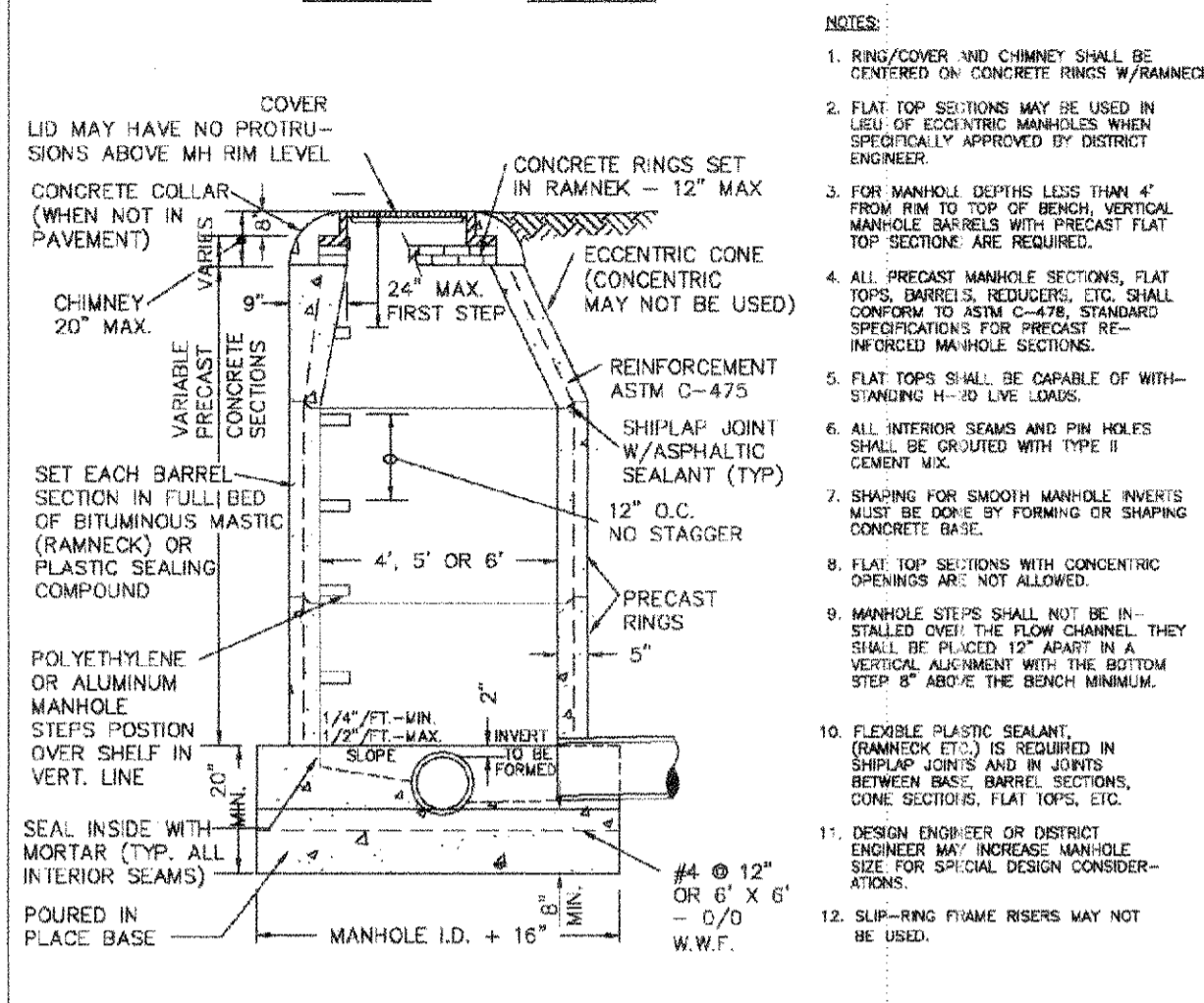
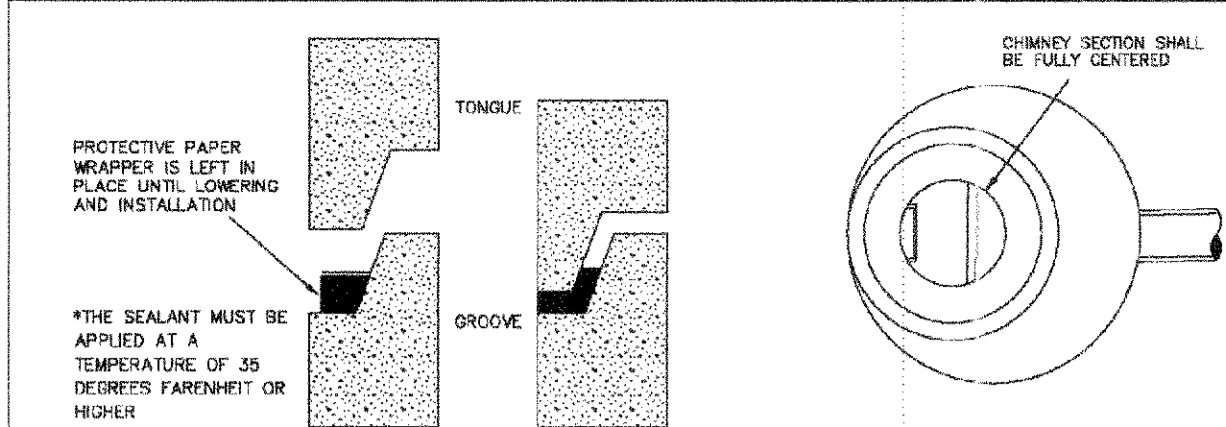


TYPICAL SERVICES SECTION

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

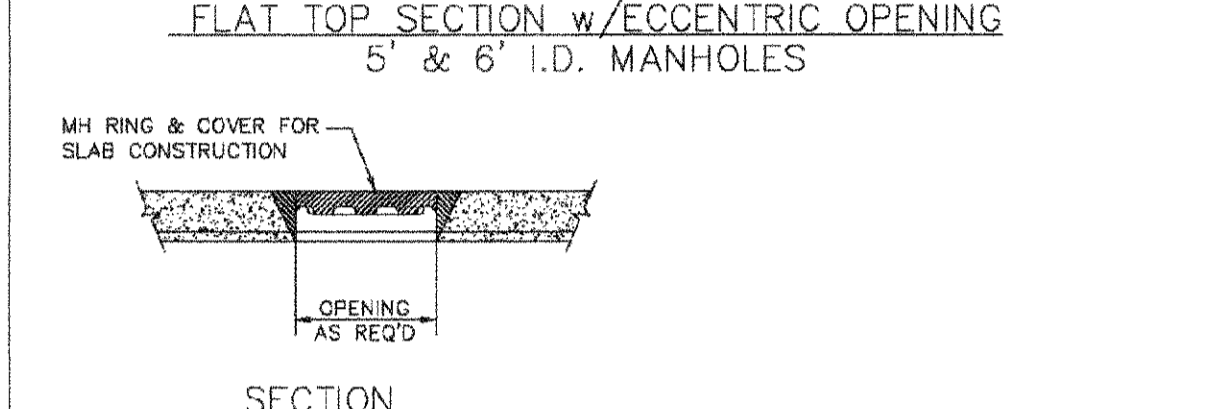
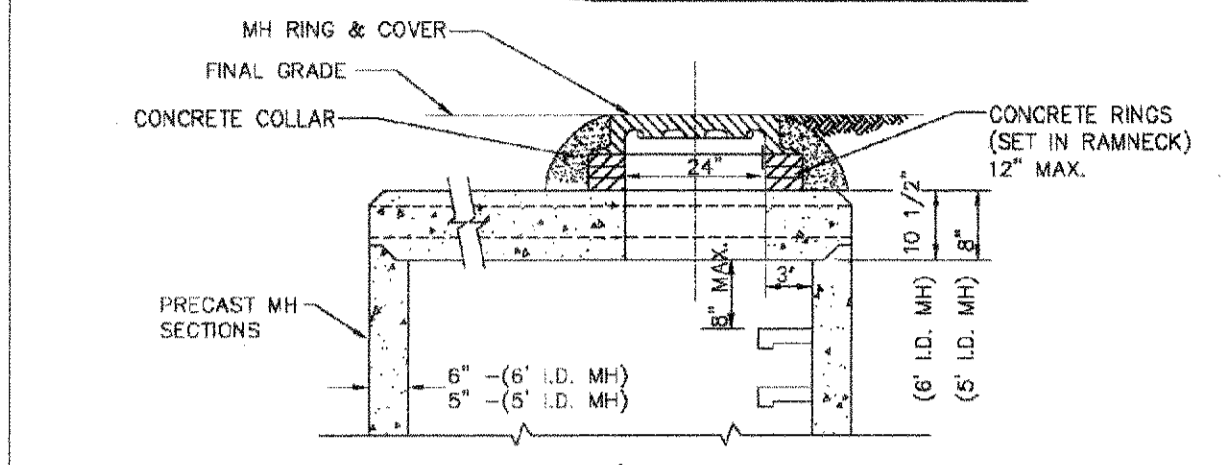
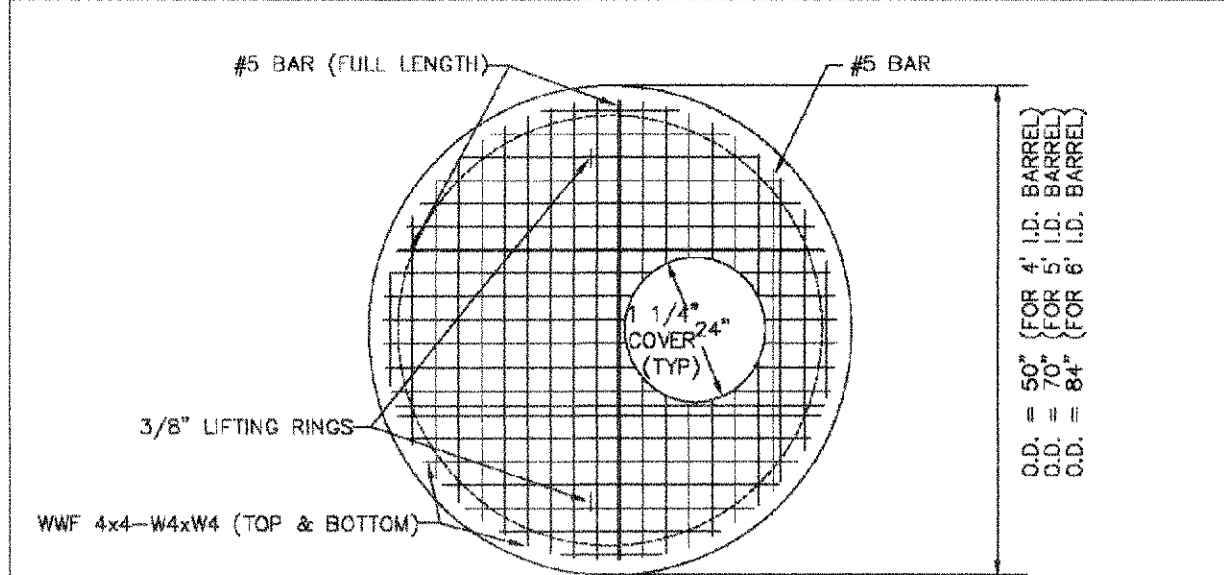
PARKER WATER & SANITATION DISTRICT	
TYPICAL SEWER SERVICES	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	3/00 10/16 01/02 01/16 10/18
DIRECTOR OF ENGINEERING	

2016 REVISION



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

2016 REVISION



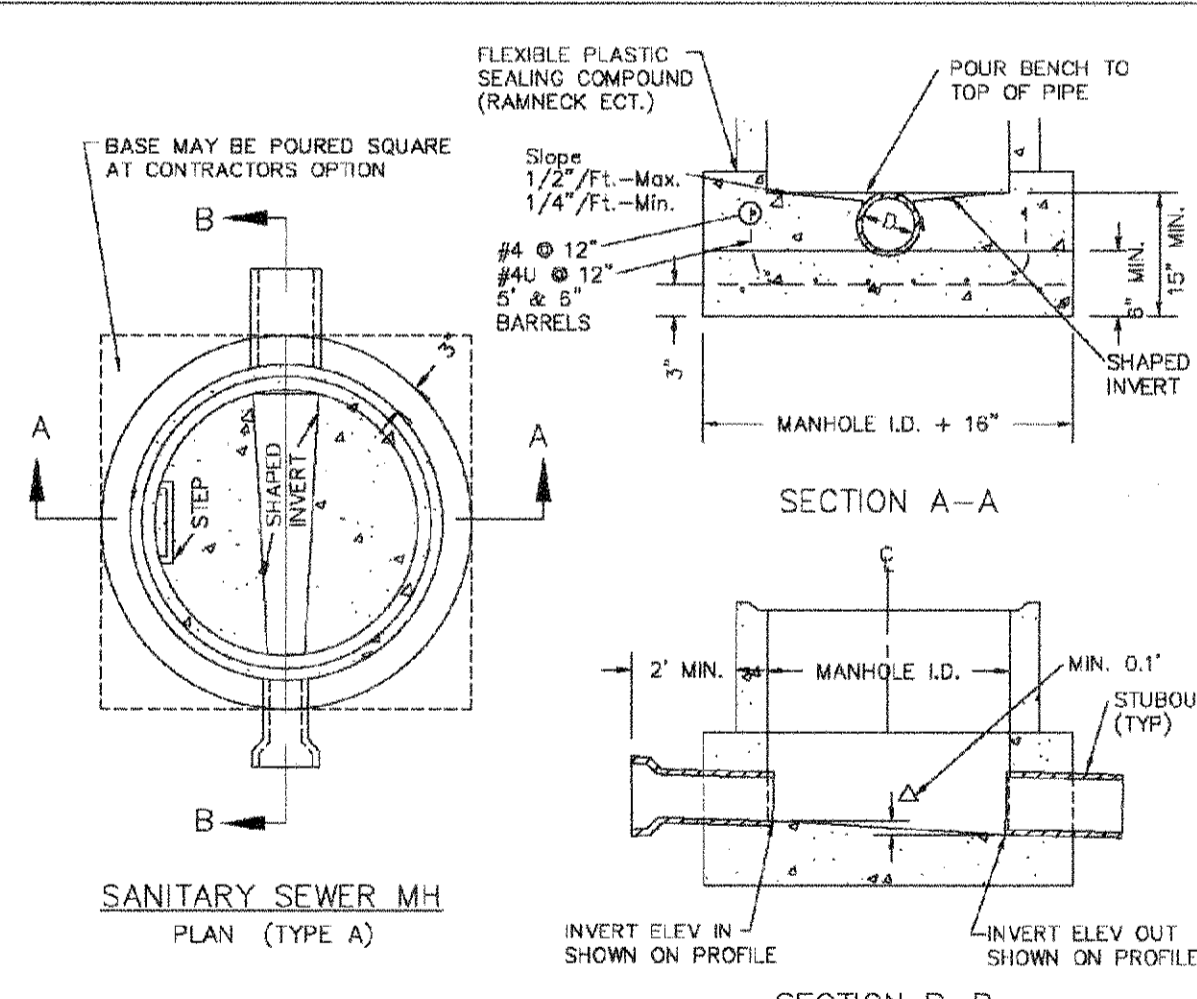
PARKER WATER & SANITATION DISTRICT	
PARKER MANHOLE ECCENTRIC CONE	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	4/01 10/16 01/02 01/16 1/16
DIRECTOR OF ENGINEERING	

2016 REVISION

PARKER WATER & SANITATION DISTRICT	
PRECAST MANHOLE - 5' & 6' I.D. WITH ECCENTRIC CONE	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	01/02 01/16 01/16 10/16
DIRECTOR OF ENGINEERING	

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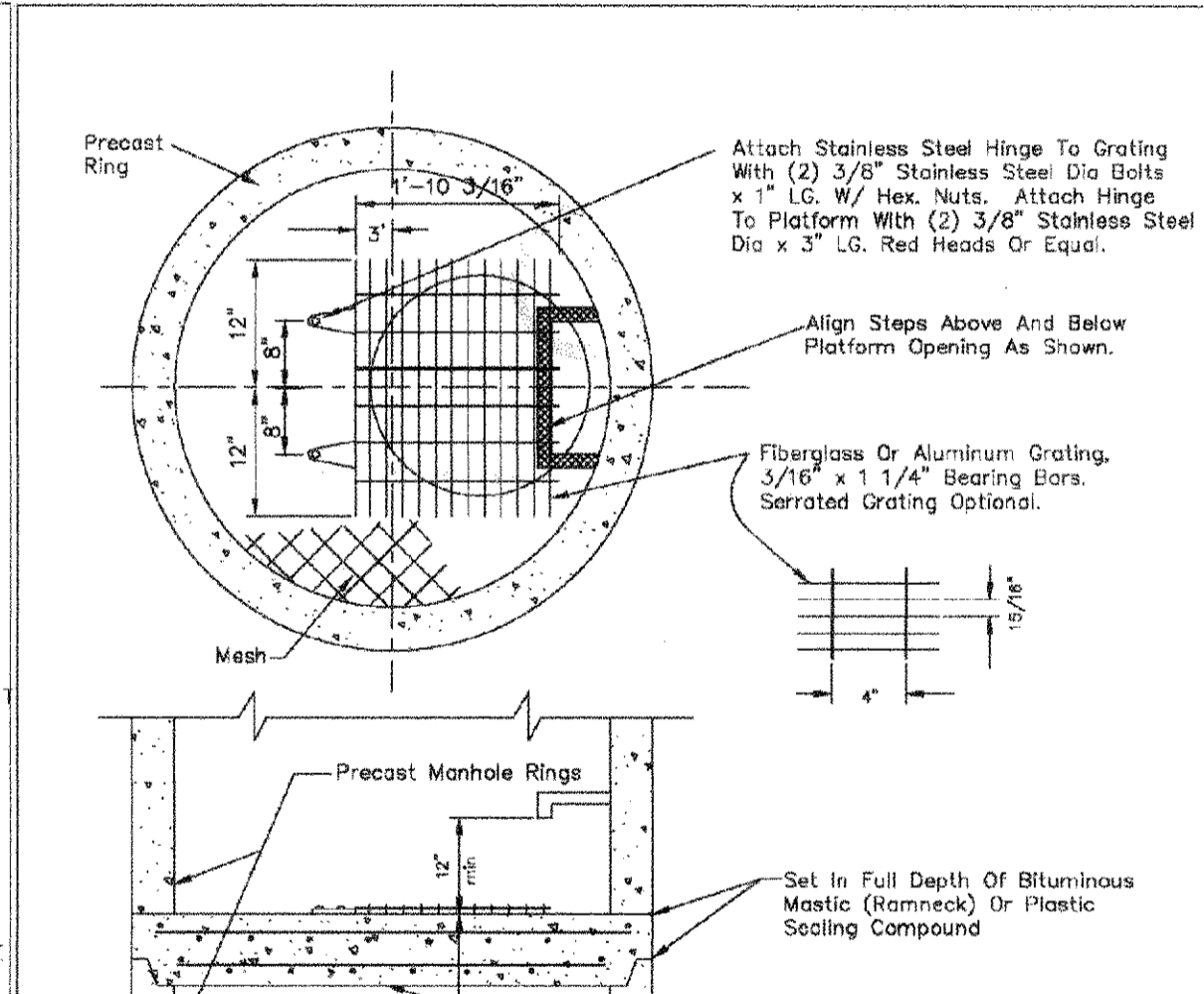
APPROVED  
AUG 14 2019  
PARKER WATER AND  
SANITATION DISTRICT



- 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"/ft. - Max. 1/4"/ft. - 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:	DATE:
NONE	2/96
APPROVED: PVR	01/02 01/16 01/16 10/16
DIRECTOR OF ENGINEERING	

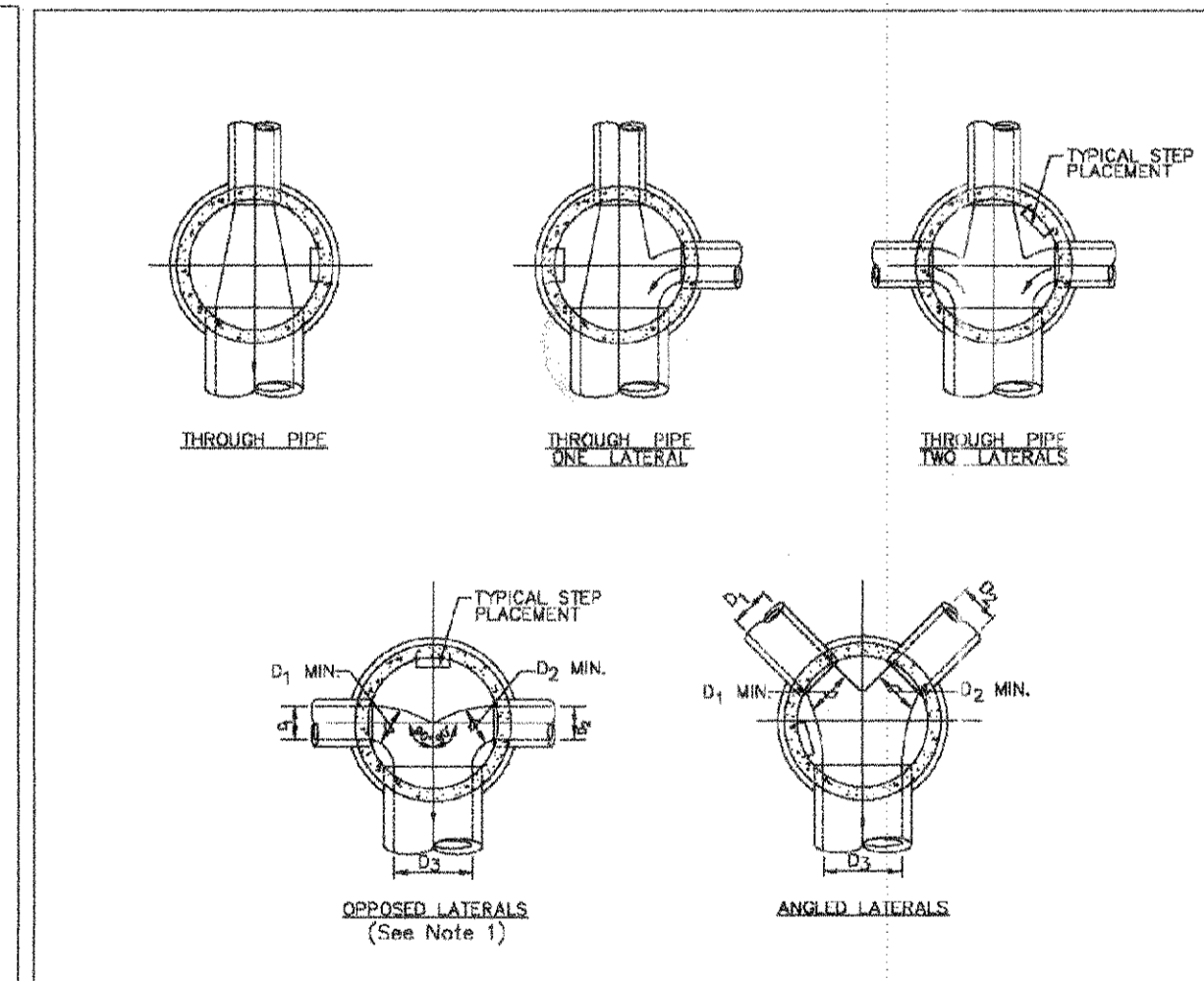
2016 REVISION



- 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 sliding.

PARKER WATER & SANITATION DISTRICT	
INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	2/00 10/16 01/02 01/16 10/18
DIRECTOR OF ENGINEERING	

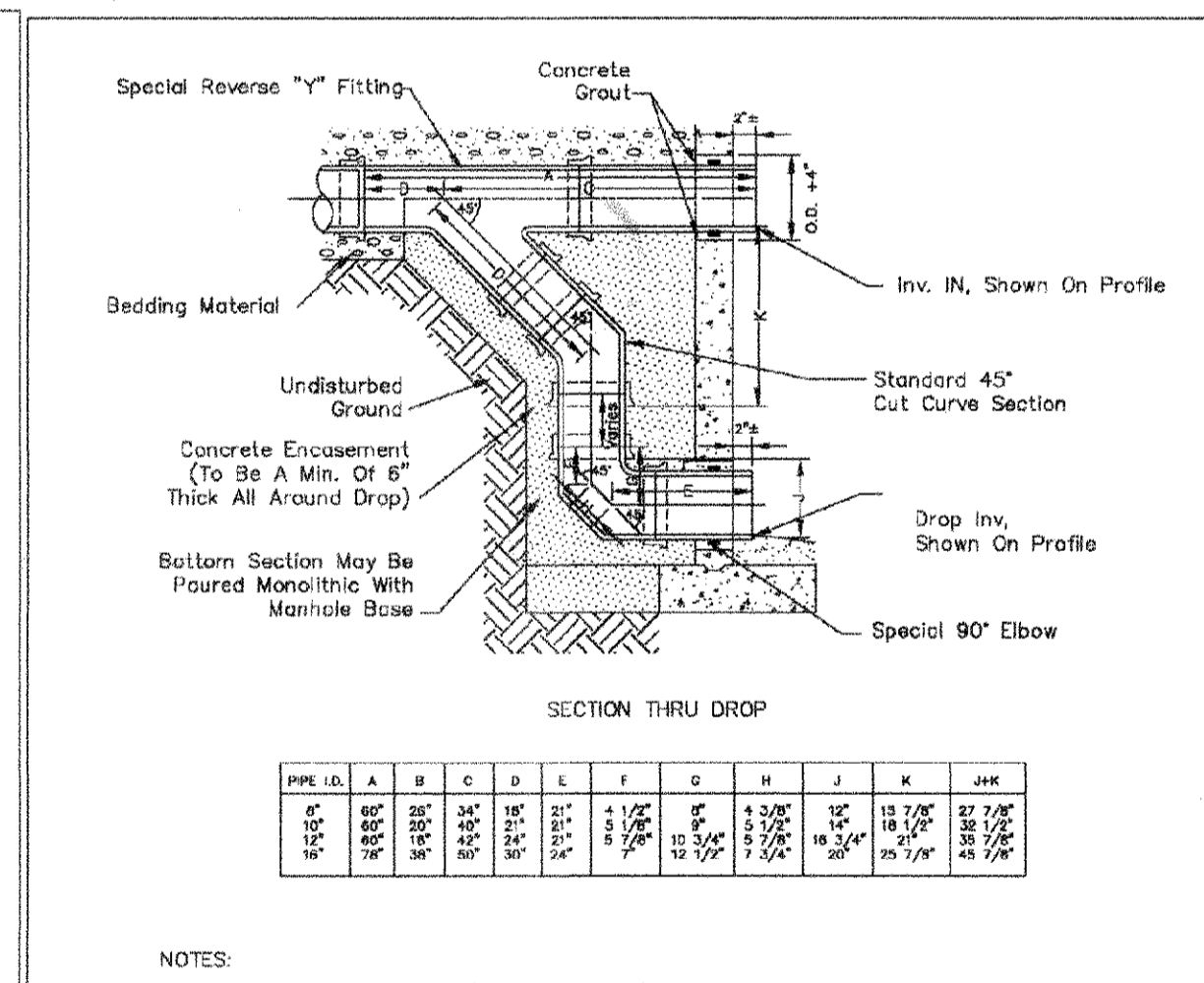
2016 REVISION



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

PARKER WATER & SANITATION DISTRICT	
TYPICAL BASE CHANNELIZATION DETAILS	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	3/16 6/16
DIRECTOR OF ENGINEERING	

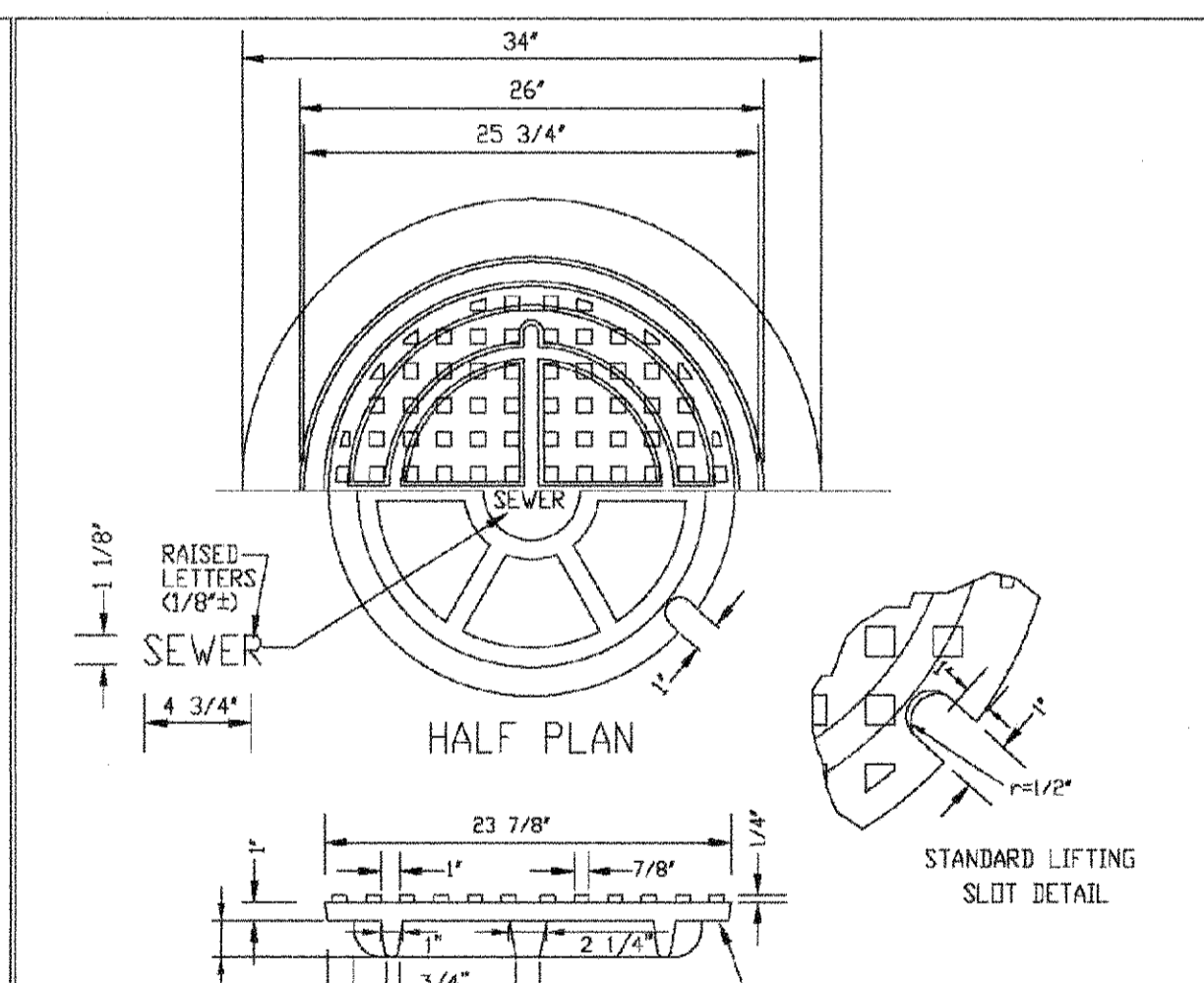
2016 REVISION



- NOTES:
1. Vit Clay Pipe & fittings (A.S.T.M. C-700) shown, details similar for all other pipe.
  2. Diameter of drop shall not be less than the line pipe diameter.
  3. For 18" diameter and larger, outside drop detail shall be a special design.
  4. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT	
OUTSIDE DROP MANHOLE CONSTRUCTION	
SCALE:	DATE:
NONE	2/96
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION



- NOTE:
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 Point (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:	DATE:
NONE	2/96
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

CALL 811  
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UNCC  
1-800-922-1987

NO.	Revisions	Date	Appr.	Date

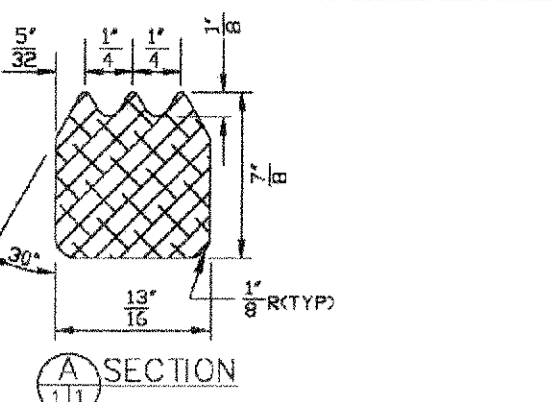
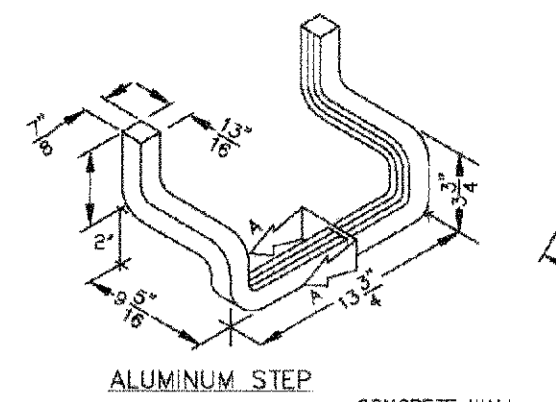
10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER DETAILS

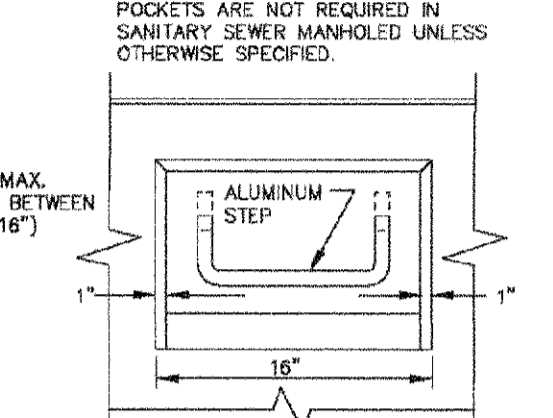
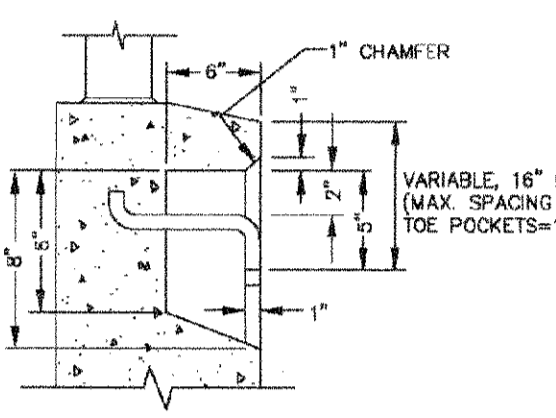
SCALE:	AS SHOWN
DRAWN BY:	JU
CHECKED BY:	JU
DATE:	AUGUST 2017
FILE NO.:	8130283701

SHEET NUMBER  
**12**



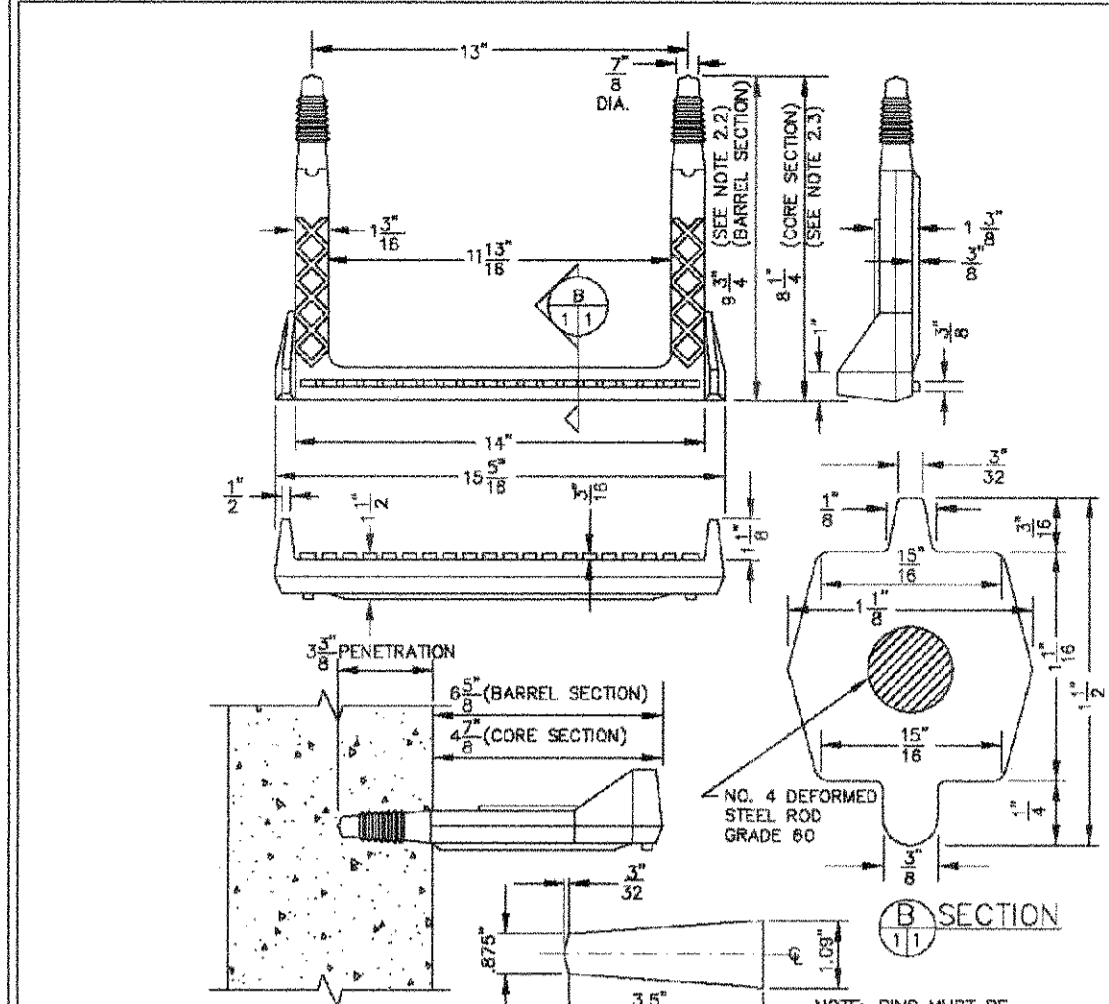
**NOTES:**

- ALUMINUM ALLOY SPECIFICATIONS:
  - FED. SPEC. QQ-A-202/9 (ALUMINUM-MAGNESIUM-SILICATE ALLOY)
  - MINIMUM TENSILE STRENGTH=38,000 p.s.i.
  - MINIMUM YIELD STRENGTH=35,000 p.s.i.
  - MINIMUM ELONGATION=10% IN 2
- MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP)
  - 1,000 lb. WITH 4" PROJECTION FROM WALL.
  - 1,500 lb. WITH 4" PROJECTION FROM WALL.
- WEIGHT PER STEP=2.23 POUNDS
- STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
- VERTICAL SPACING BETWEEN STEPS SHALL BE CONSISTENT IN EACH INDIVIDUAL MANHOLE.
- 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: 2/98  
APPROVED: PVR 01/16 10/16  
DIRECTOR OF ENGINEERING

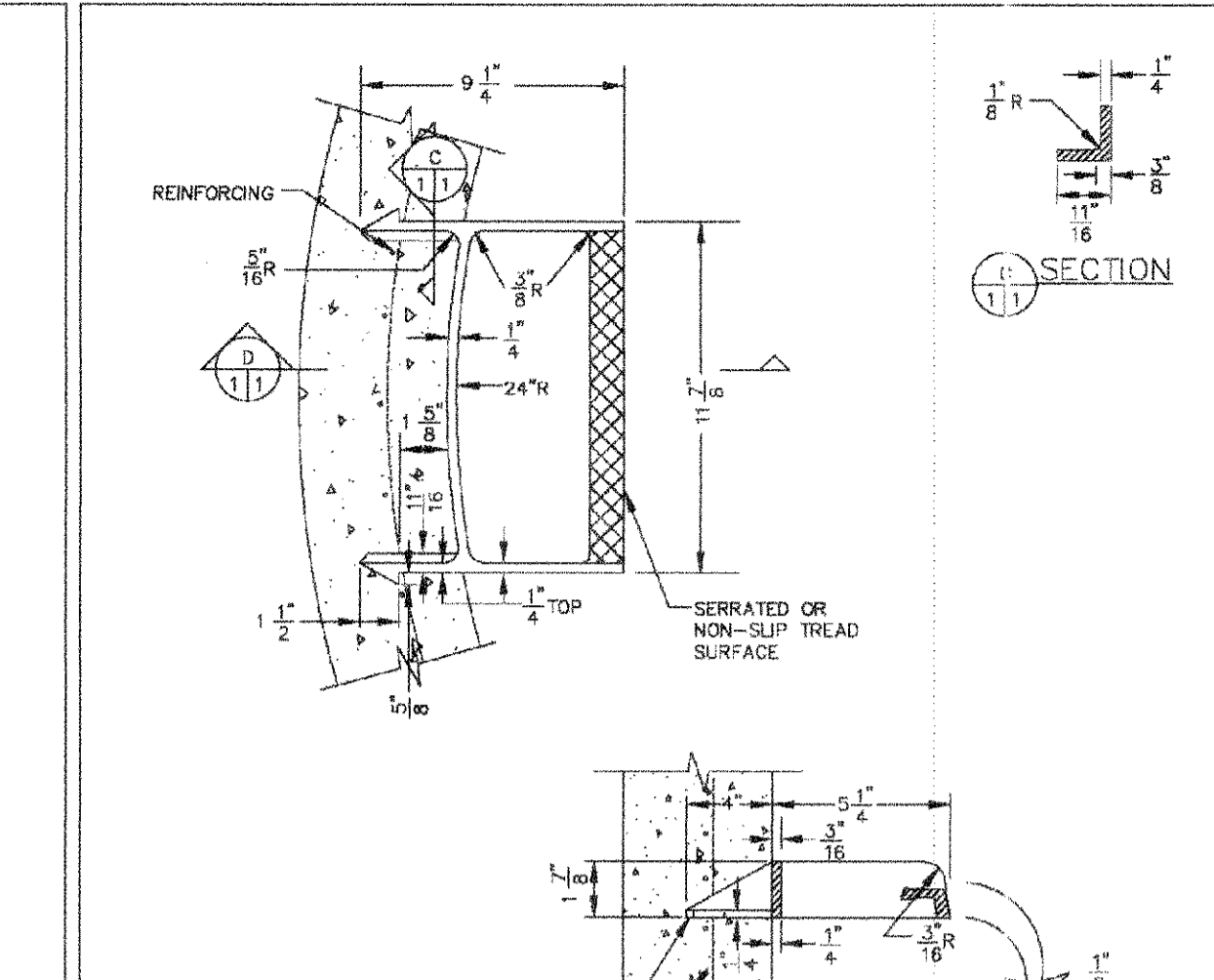


**NOTES:**

- ASTM SPECIFICATIONS:
  - ASTM C-478
  - ASTM A-615 GRADE 60 (STEEL ROD)
- ASTM 2146-96, TYPE I, GRADE 1000 (POLYPROPYLENE)
- STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 3/4" INCH LEG AND SHALL PROJECT FROM THE WALL 3/8" INCHES.
- STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4" INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8" INCHES.
- ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8" INCHES.
- STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN.
- 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.
- 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: 2/00  
APPROVED: PVR 01/16 10/16  
DIRECTOR OF ENGINEERING

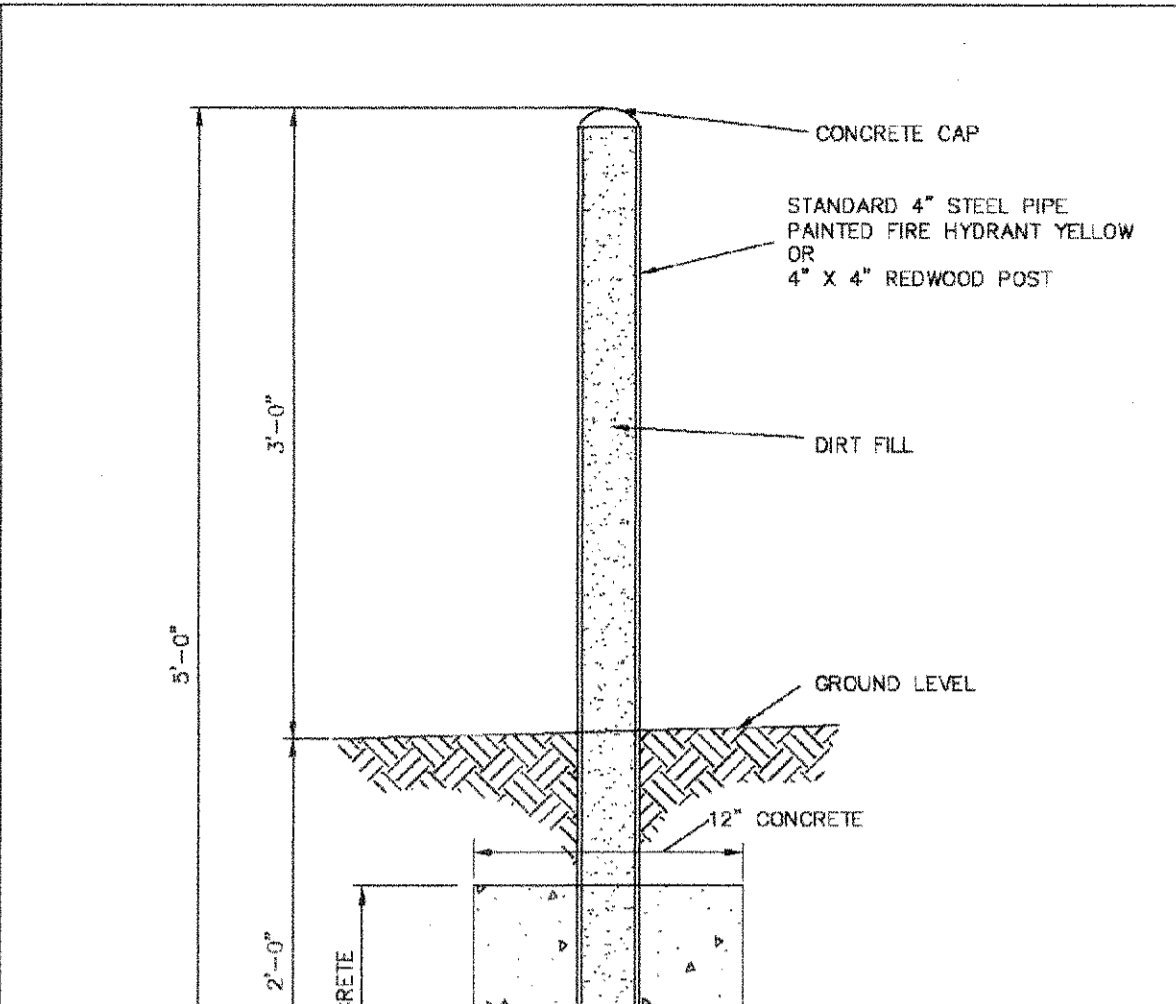


**NOTES:**

- THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.
- ALUMINUM ALLOY SPECIFICATIONS:
  - ALLOY DESIGNATION: A360, 35
  - MIN. TENSILE STRENGTH: 40 K.S.I.
  - MIN. YIELD STRENGTH: 20 K.S.I.
  - MIN. SHEAR STRENGTH: 27.45 K.S.I.
  - ELONGATION: 10% IN 2
  - BRENNEL HARDNESS: 70
- 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.
- MIN. WT. = 2.0 LB.

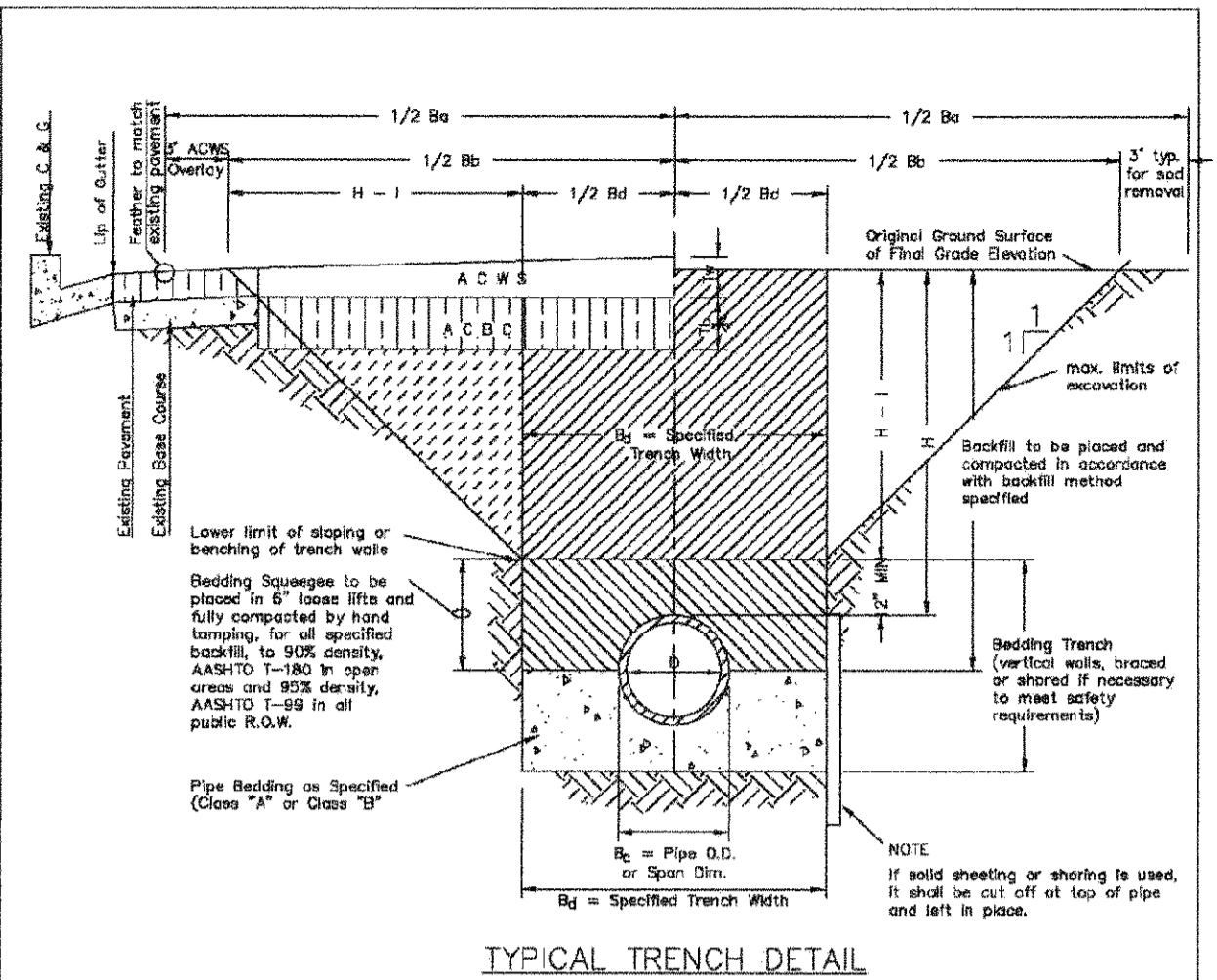
**PARKER WATER & SANITATION DISTRICT**  
CAST ALUMINUM MANHOLE STEP

SCALE: NONE DATE: 2/98  
APPROVED: PVR 01/16 10/16  
DIRECTOR OF ENGINEERING



**PARKER WATER & SANITATION DISTRICT**  
MARKER POST DETAIL

SCALE: NONE DATE: 2/98  
APPROVED: PVR 2/00 10/16 4/01 1/06 1/79  
DIRECTOR OF ENGINEERING



**PARKER WATER & SANITATION DISTRICT**  
SEWER TRENCHING AND BEDDING DETAIL

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

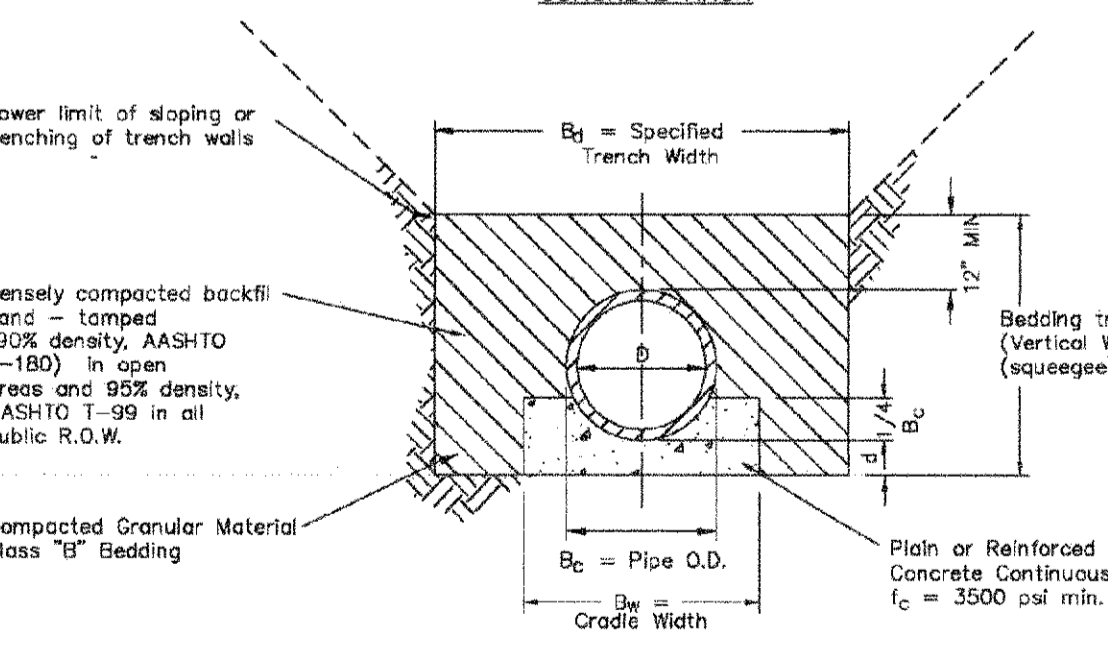
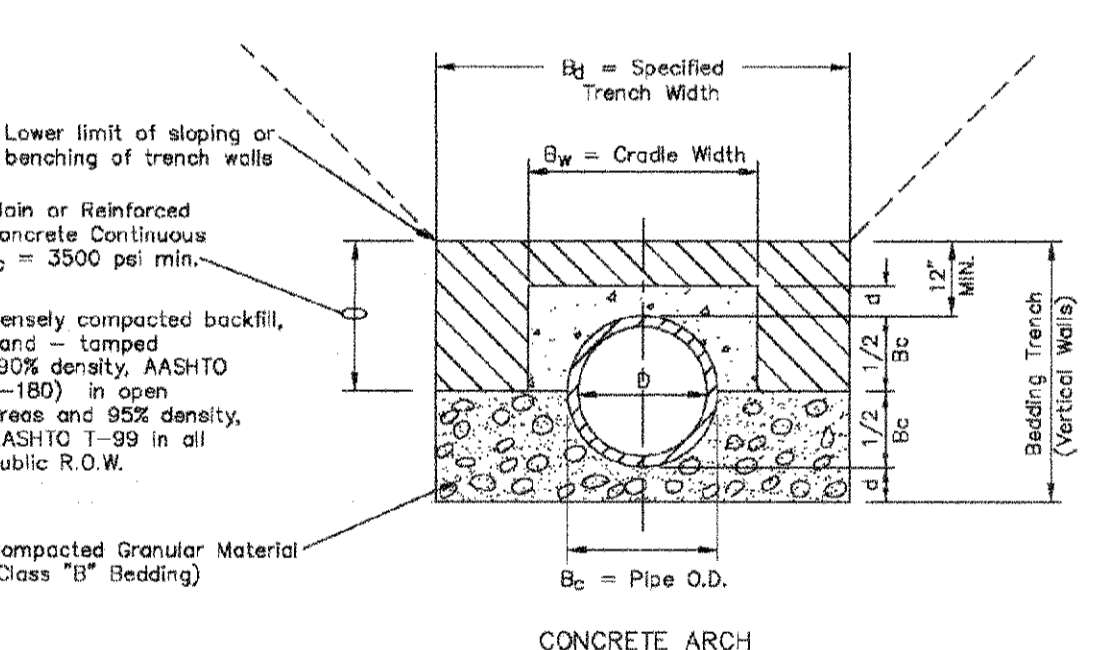
2016 REVISION SHEET 53.10

2016 REVISION SHEET 53.11

2016 REVISION SHEET 53.12

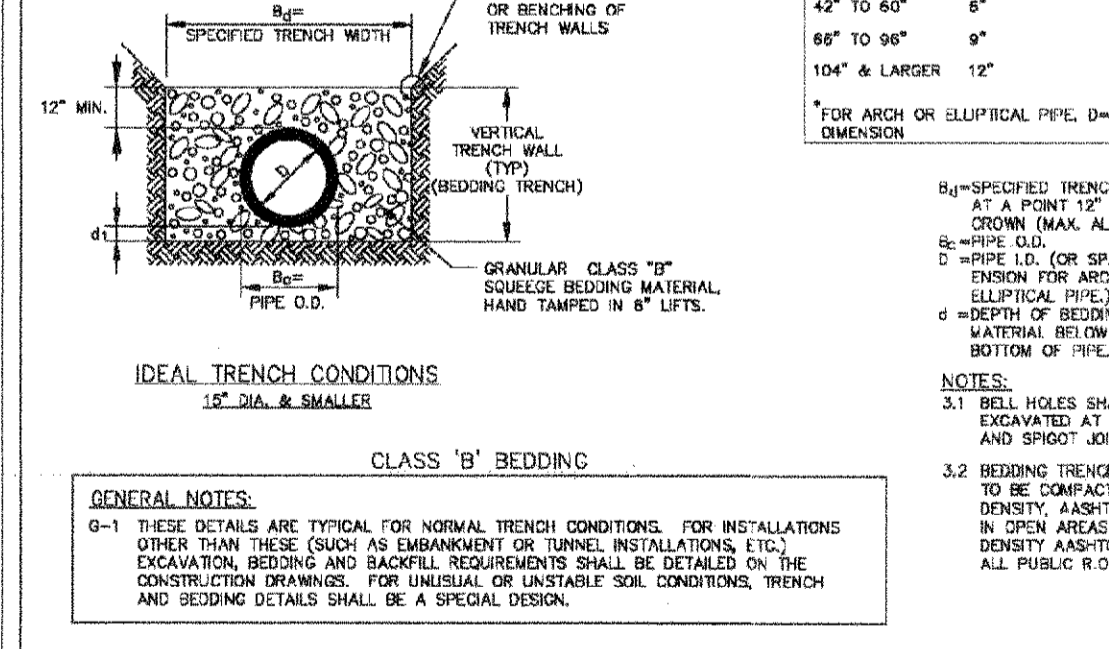
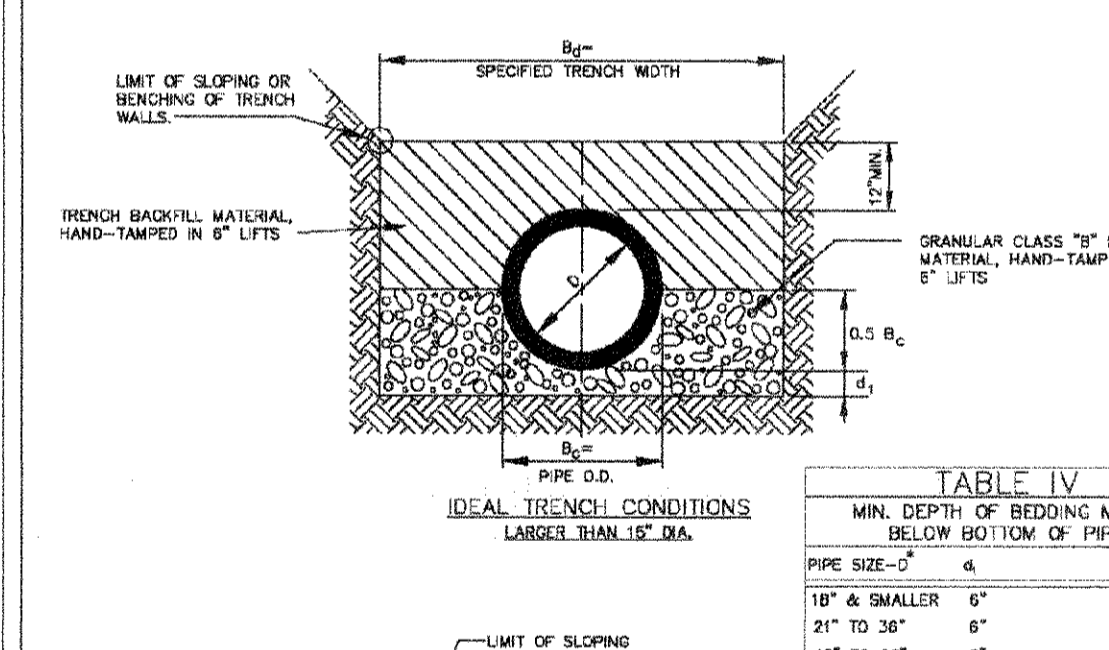
2016 REVISION SHEET 53.13

2016 REVISION SHEET 54.1



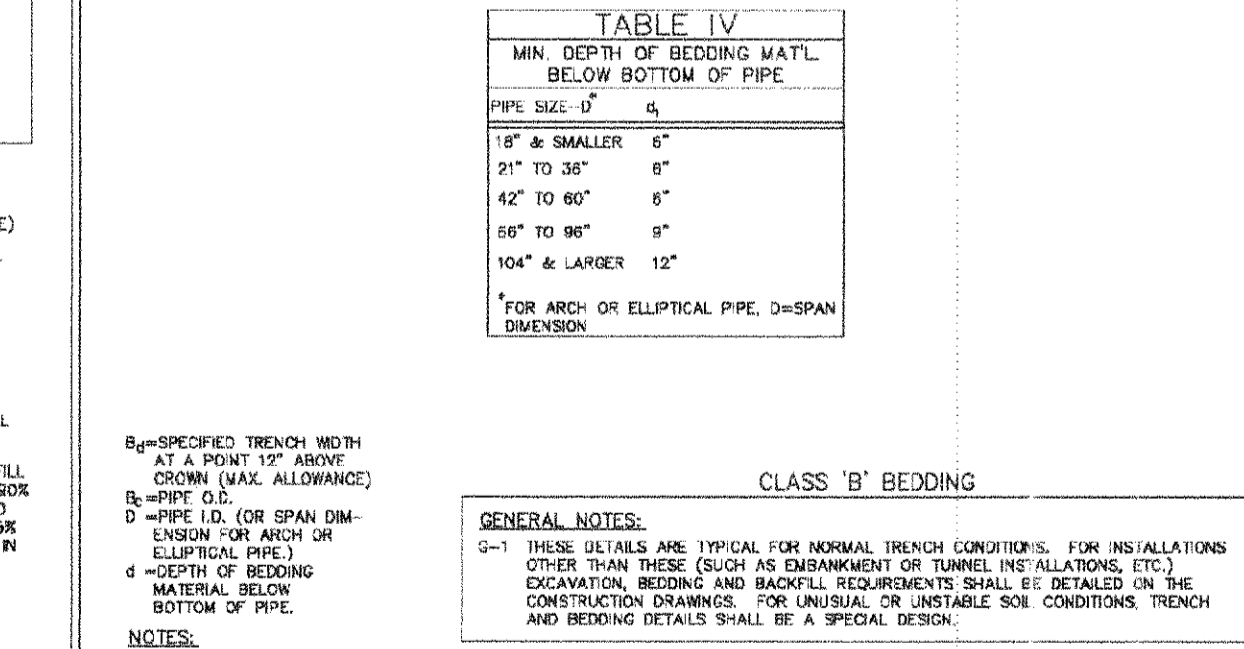
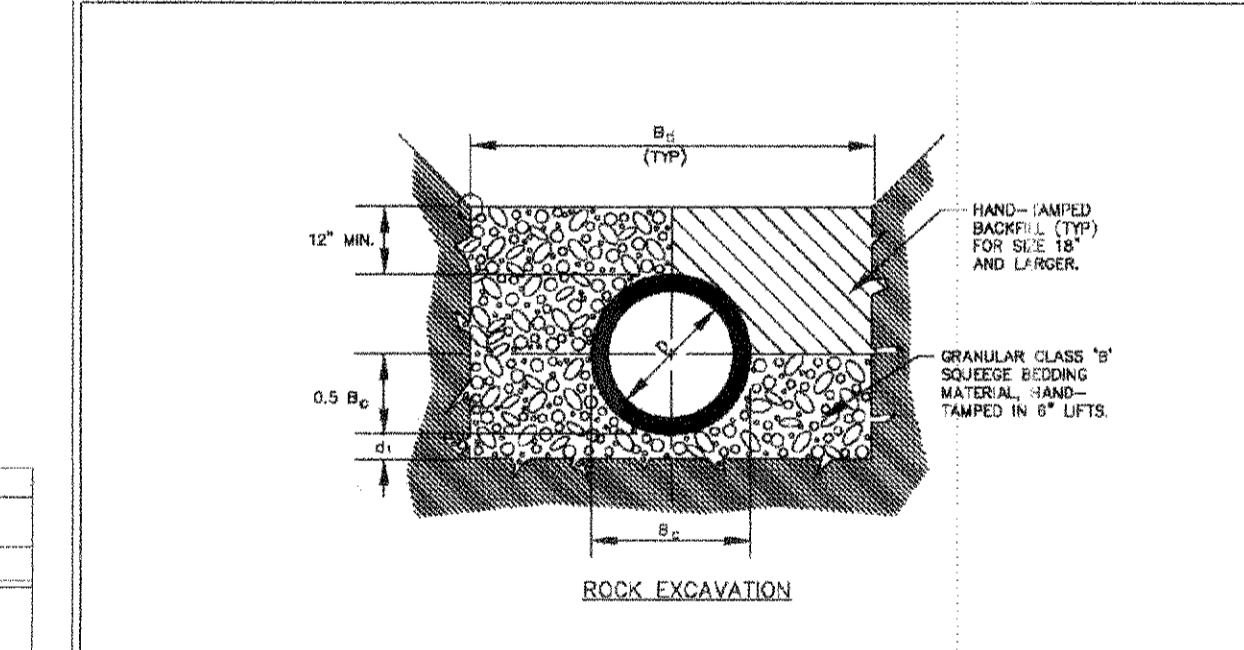
**PARKER WATER & SANITATION DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "A"

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



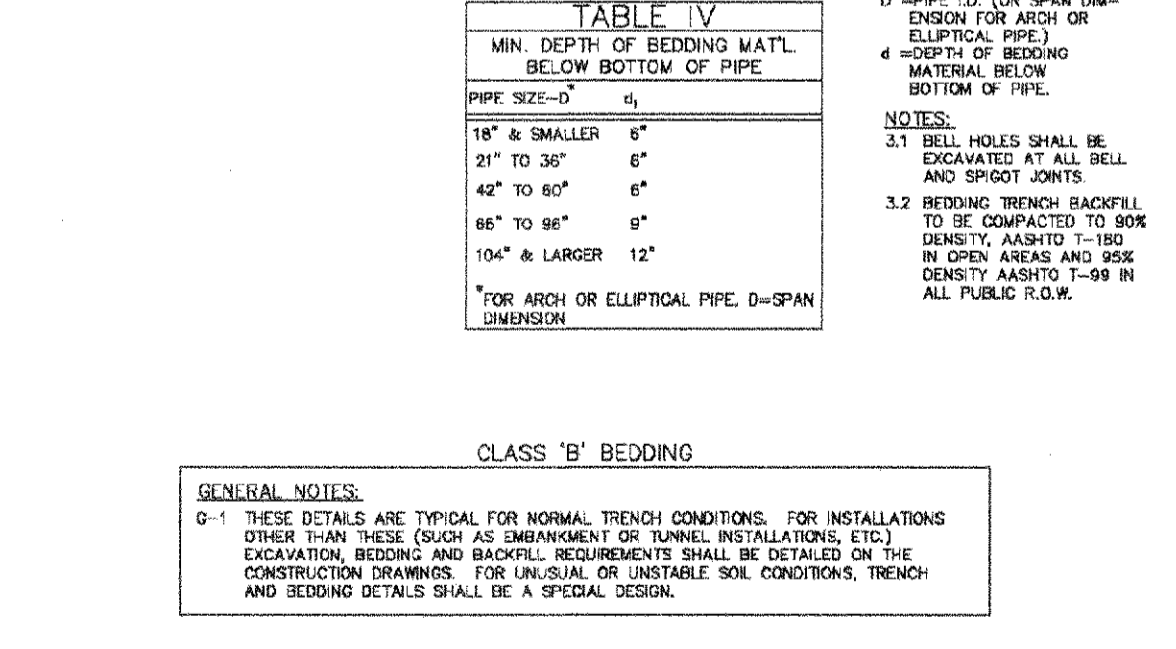
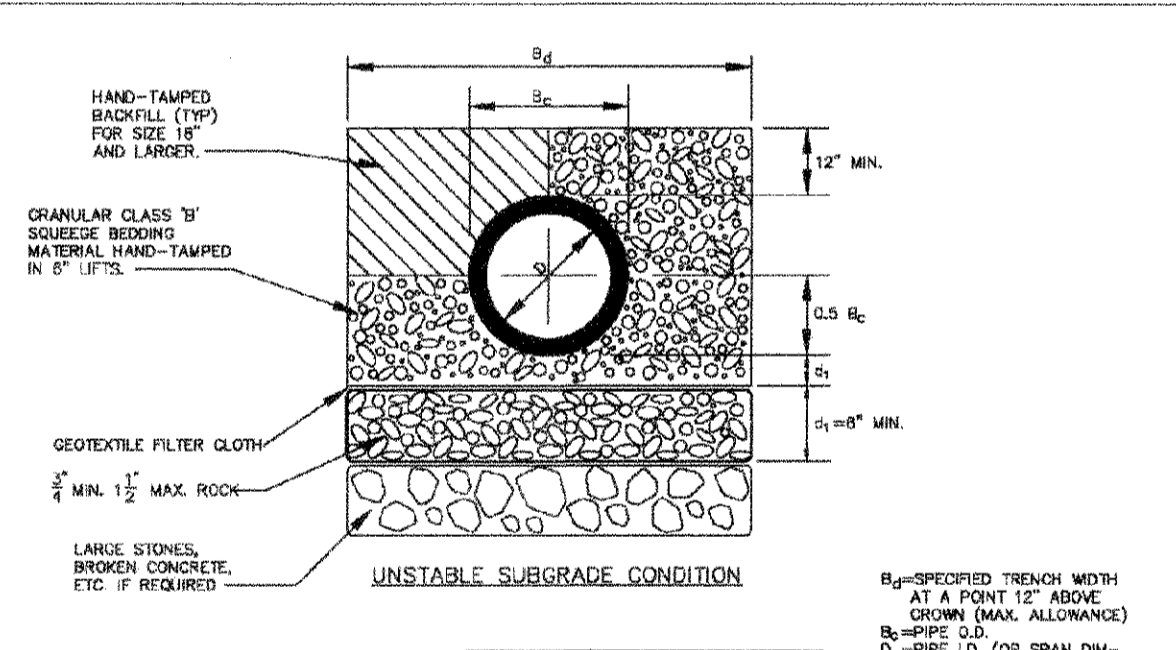
**PARKER WATER & SANITATION DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98  
APPROVED: PVR 5/98 2/00 1/16 10/16  
DIRECTOR OF ENGINEERING



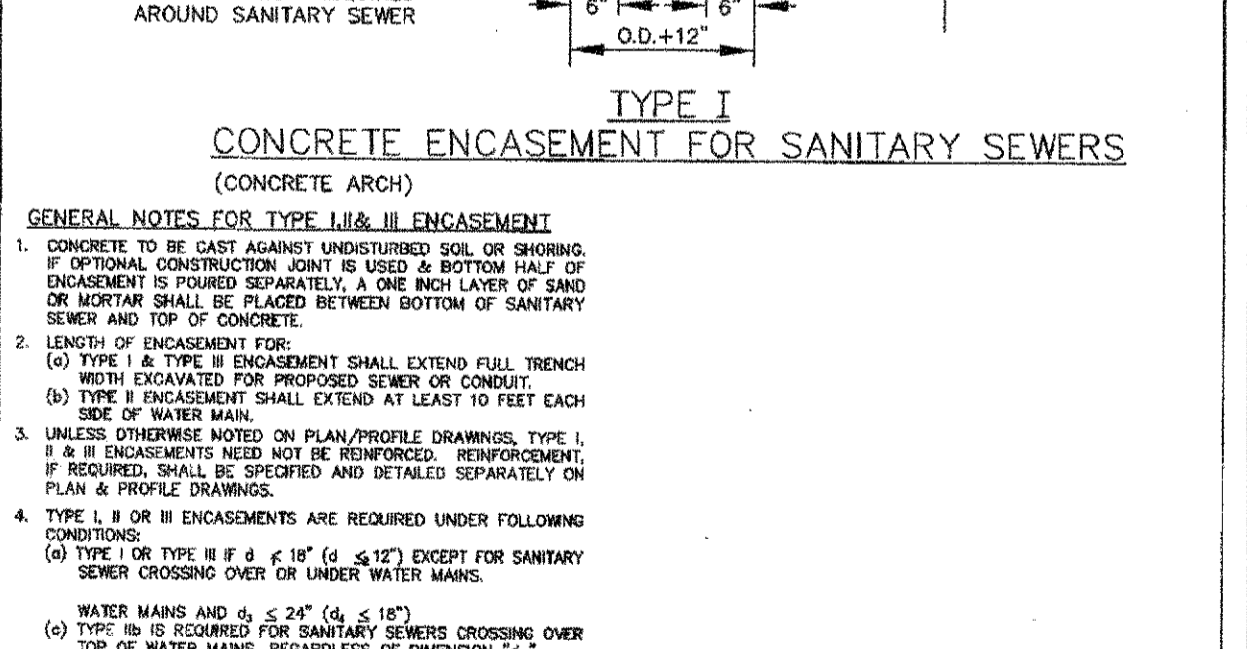
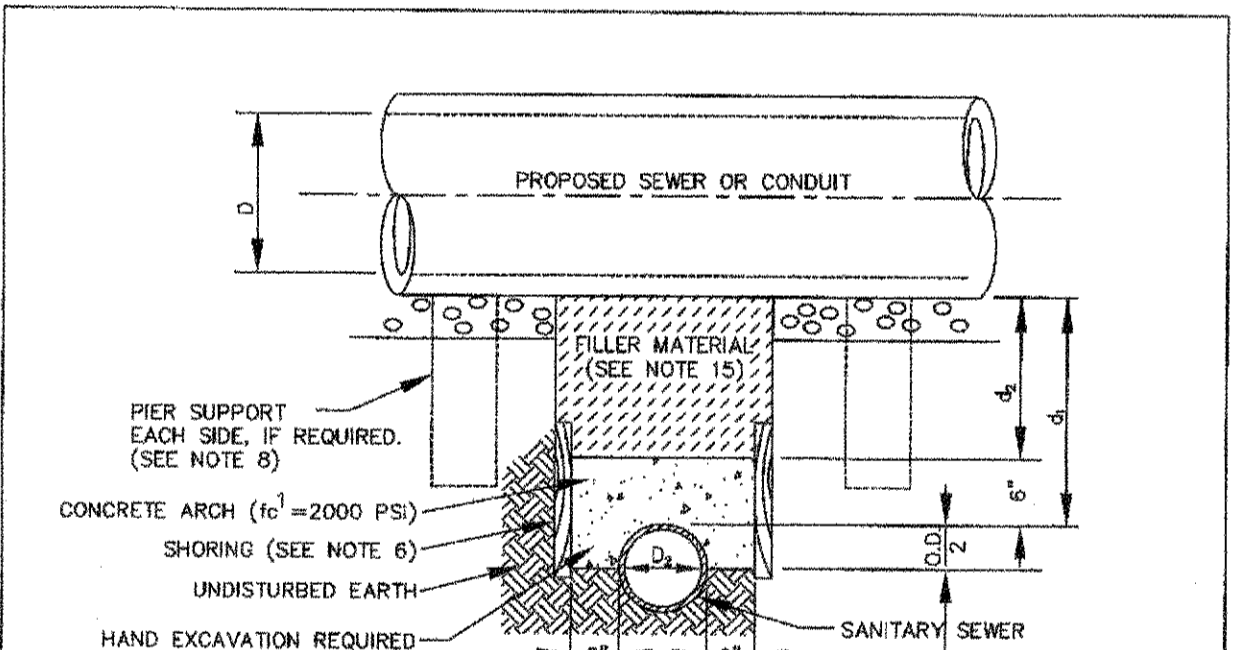
**PARKER WATER & SANITATION DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98  
APPROVED: PVR 5/98 2/00 1/16 10/16  
DIRECTOR OF ENGINEERING



**PARKER WATER & SANITATION DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98  
APPROVED: PVR 5/98 2/00 1/16 10/16  
DIRECTOR OF ENGINEERING



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

SCALE: NONE DATE: 2/98  
APPROVED: JFN  
DISTRICT ENGINEER

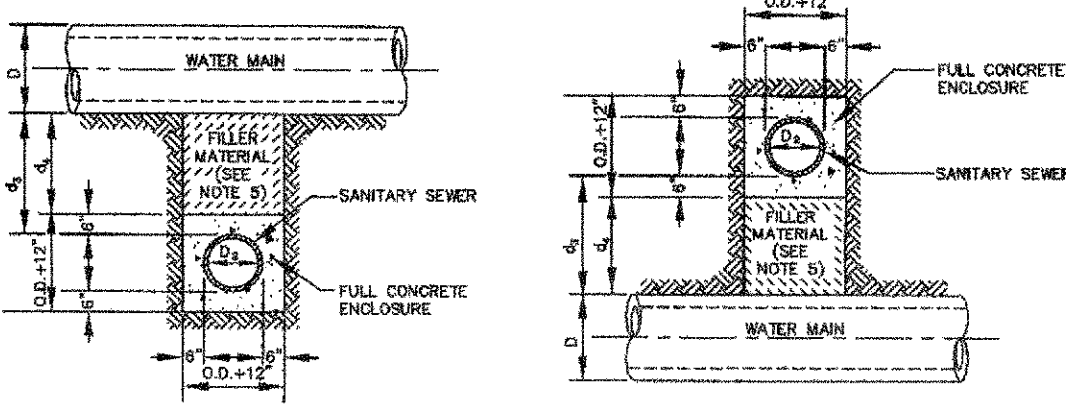
2016 REVISION SHEET 54.2

2016 REVISION SHEET 54.3

2016 REVISION SHEET 54.4

2016 REVISION SHEET 54.5

2008 REVISION SHEET 6



**TYPE IIa**  
SANITARY SEWER CROSSING  
UNDER WATER MAIN  
IF  $d_s > 2$  R, ENCASMENT NOT REQUIRED

**TYPE IIb**  
SANITARY SEWER CROSSING  
OVER TOP OF WATER MAIN  
FULL ENCASMENT REQUIRED REGARDLESS OF DIMENSION  $d_s$

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

**GENERAL NOTES FOR TYPE IIa, IIb ENCASMENT**

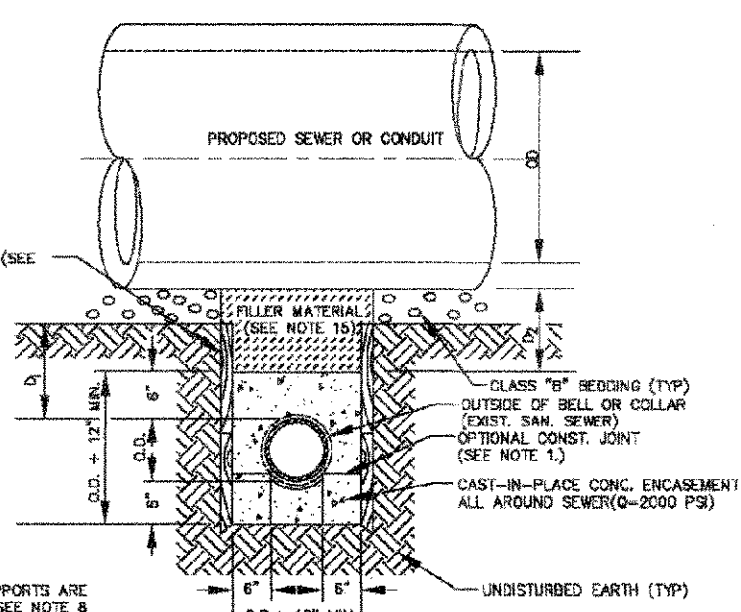
- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASMENT FOR:
  - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
  - TYPE III ENCASMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASMENTS SHALL BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAIL SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
  - TYPE I OR TYPE II IF  $d_s \leq 18"$  (OR  $\leq 12"$  EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS).
  - TYPE III IF  $d_s \leq 24"$  (OR  $\leq 18"$ ).
  - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS REGARDLESS OF DIMENSION  $d_s$ .
  - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OF THESE UNDESIRABLE SOIL CONDITIONS ARE UNDESIRABLE. TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
  - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
  - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_s \leq 4"$ .
  - COMPACTED CLASS "D" BEDDING IF  $d_s \leq 4"$  OR  $d_s > 4"$  (IF  $d_s > 4"$  FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SKELETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
- THESE ENCASMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAIL SEPARATELY ON PLAN AND PROFILE DRAWINGS.

PARKER WATER & SANITATION DISTRICT  
CONCRETE ENCASMENT  
TYPE II

SCALE: NONE DATE: 2/98

APPROVED: JFN 5/98  
4/01  
1/08

DIRECTOR OF ENGINEERING



**TYPE III**  
CONCRETE ENCASMENT FOR SANITARY SEWERS  
(FULL ENCASMENT) NO SCALE

**GENERAL NOTES FOR TYPE IIIa, IIIb ENCASMENT**

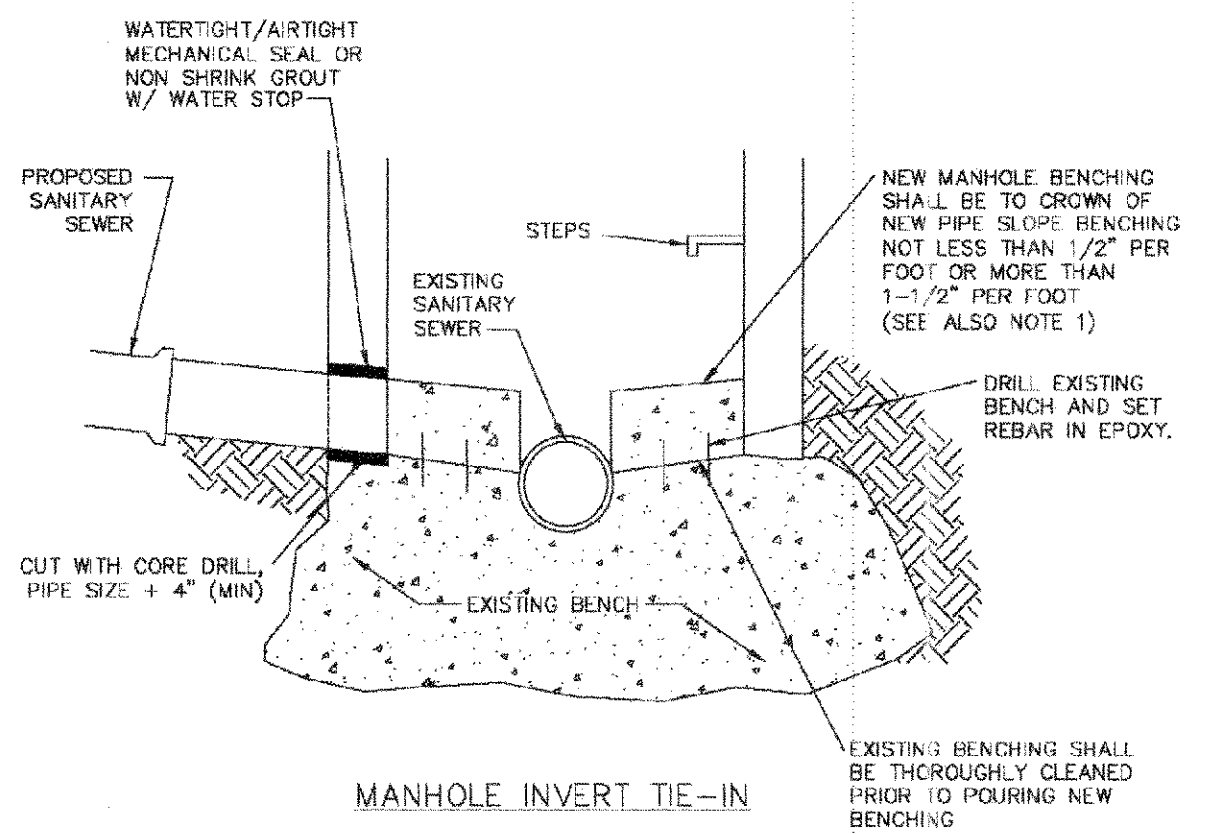
- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASMENT FOR:
  - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
  - TYPE III ENCASMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I & II ENCASMENTS SHALL NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAIL SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
  - TYPE I OR TYPE II IF  $d_s \leq 18"$  (OR  $\leq 12"$  EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS).
  - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING UNDER WATER MAINS WATER MAINS AND  $d_s \leq 24"$  (OR  $\leq 18"$ ).
  - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS REGARDLESS OF DIMENSION  $d_s$ .
  - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OF THESE UNDESIRABLE SOIL CONDITIONS ARE UNDESIRABLE. TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
  - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
  - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_s \leq 4"$ .
  - COMPACTED CLASS "D" BEDDING IF  $d_s \leq 4"$  OR  $d_s > 4"$  (IF  $d_s > 4"$  FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SKELETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
- THESE ENCASMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAIL SEPARATELY ON PLAN AND PROFILE DRAWINGS.
- CONCRETE ENCASED PIPE SHALL BE LINED WITH FELT LAYER.

PARKER WATER & SANITATION DISTRICT  
CONCRETE ENCASMENT  
TYPE III

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98  
1/16  
10/16

DIRECTOR OF ENGINEERING



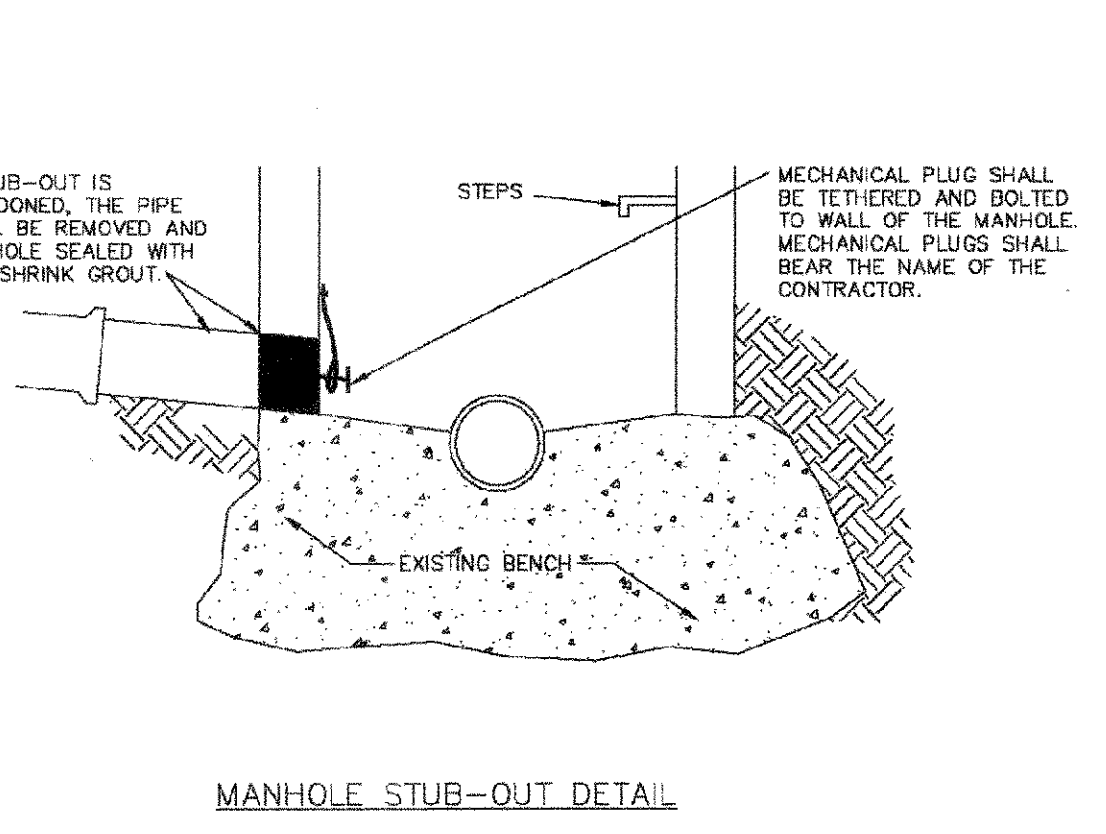
**MANHOLE INVERT TIE-IN**

PARKER WATER & SANITATION DISTRICT  
MANHOLE INVERT  
TIE-IN DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98  
1/16  
10/16

DIRECTOR OF ENGINEERING



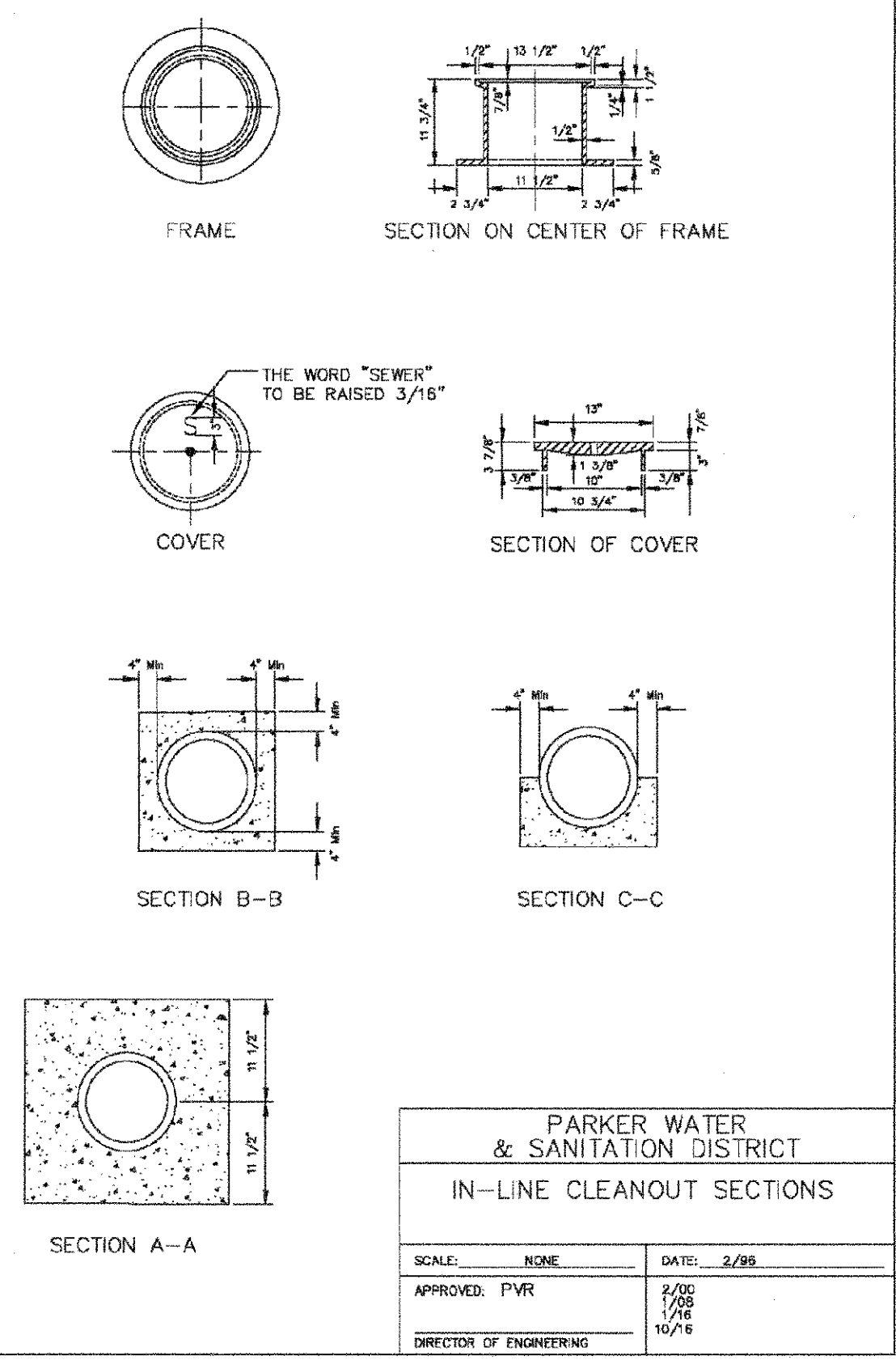
**MANHOLE STUB-OUT DETAIL**

PARKER WATER & SANITATION DISTRICT  
MANHOLE STUB-OUT  
DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 1/16  
10/16

DIRECTOR OF ENGINEERING

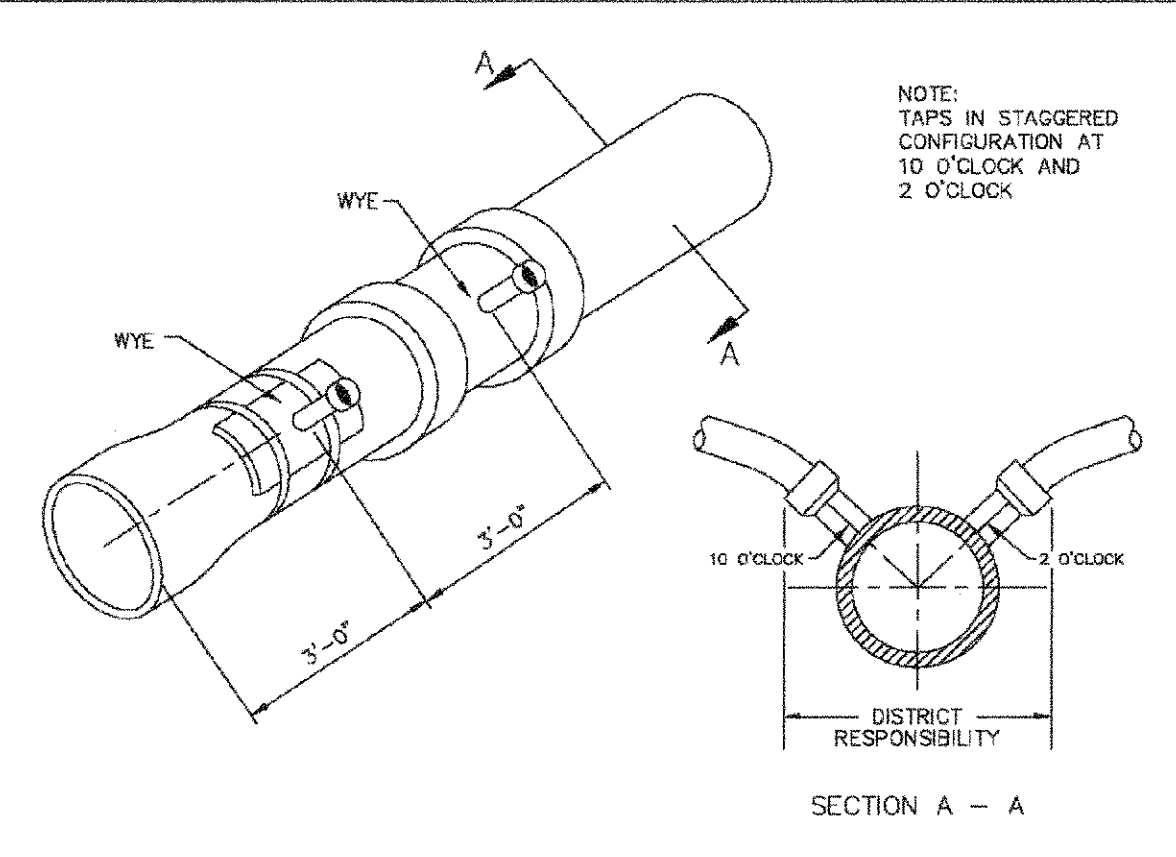


PARKER WATER & SANITATION DISTRICT  
IN-LINE CLEANOUT SECTIONS

SCALE: NONE DATE: 2/98

APPROVED: PVR 2/02  
1/16  
10/16

DIRECTOR OF ENGINEERING



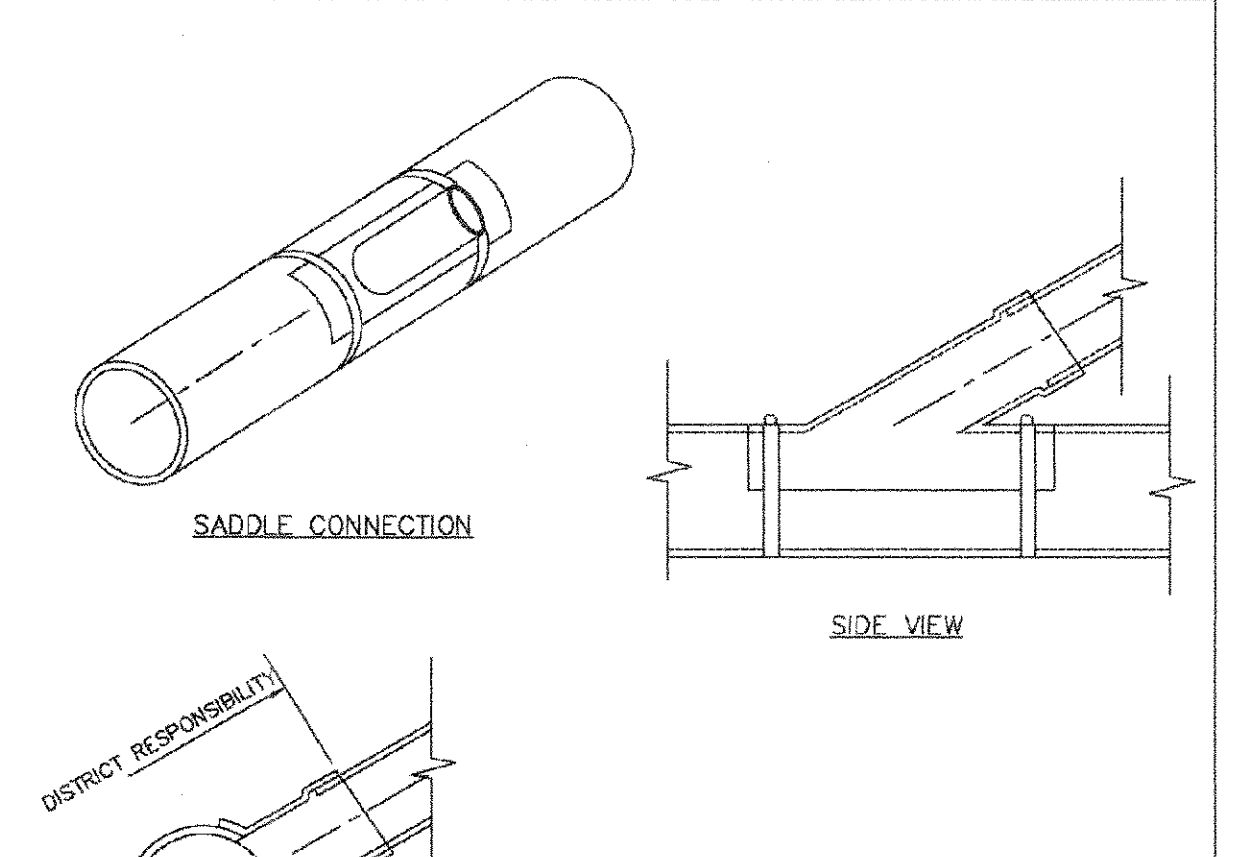
Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock position on the circumference of the sewer main. On new installations, tee or wye fittings shall be used. When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum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

PARKER WATER & SANITATION DISTRICT  
DOMESTIC SEWER  
TAPPING DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 4/01  
1/08  
10/16

DIRECTOR OF ENGINEERING



NOTES:  
1. SADDLE FITTINGS TO BE PER ASTM D3034.  
2. CONNECTION SHALL BE Y - SADDLE WITH TWO BONDS

PARKER WATER & SANITATION DISTRICT  
P.V.C. SADDLE  
CONNECTION DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 1/16  
10/16

DIRECTOR OF ENGINEERING

2008 REVISION SHEET 7 2016 REVISION SHEET S4.8 2016 REVISION SHEET S4.9 2016 REVISION SHEET S4.10 2016 REVISION SHEET S4.12

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

APPROVED  
AUG 14 2019  
PARKER WATER AND  
SANITATION DISTRICT

10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 486-9526  
Fax: (720) 486-9546

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER DETAILS

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: JFN  
CHECKED BY: JJJ  
DATE: AUGUST 2017

SHEET NUMBER  
**14**

Revisions  
Date  
Appr.  
Date

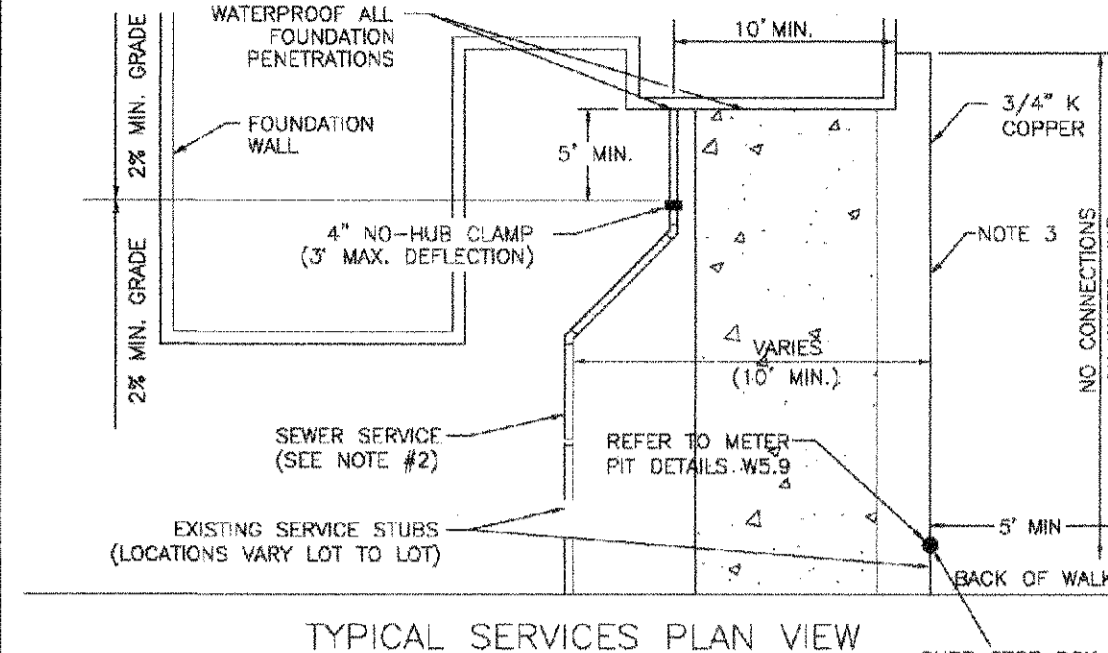
- INSPECTION POLICY:**
1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
  2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
  3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR 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 PWSD 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" BURT.
  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 PWSD 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:  
"W" 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 USED IN MOVING STOPBOXES ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSD PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

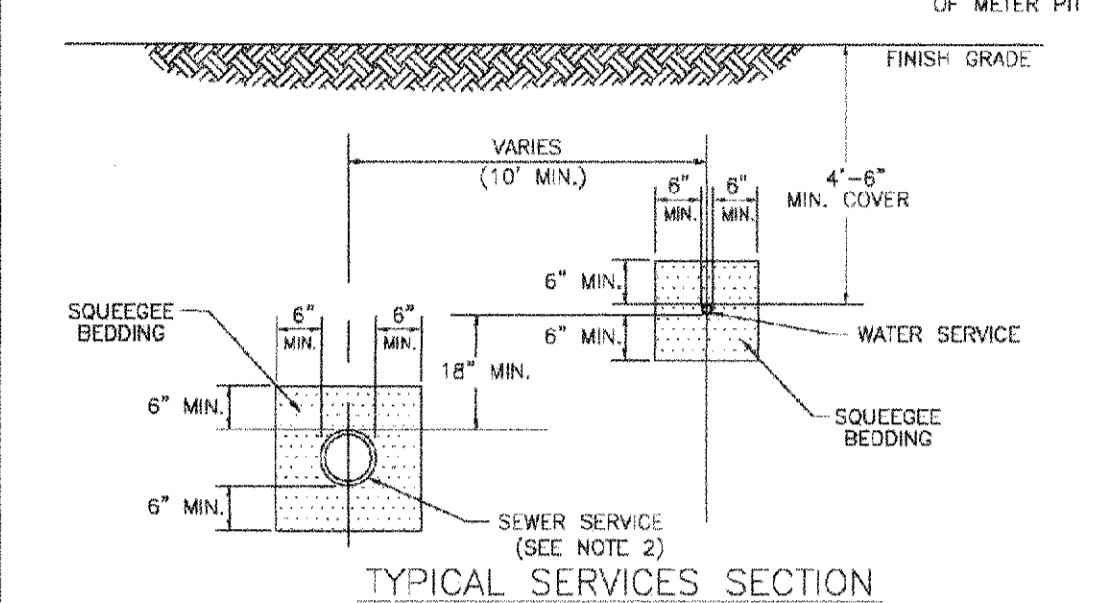
DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES	
SCALE: NONE	DATE: 2/98
APPROVED: 1/24	1/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET W1.1



TYPICAL SERVICES PLAN VIEW



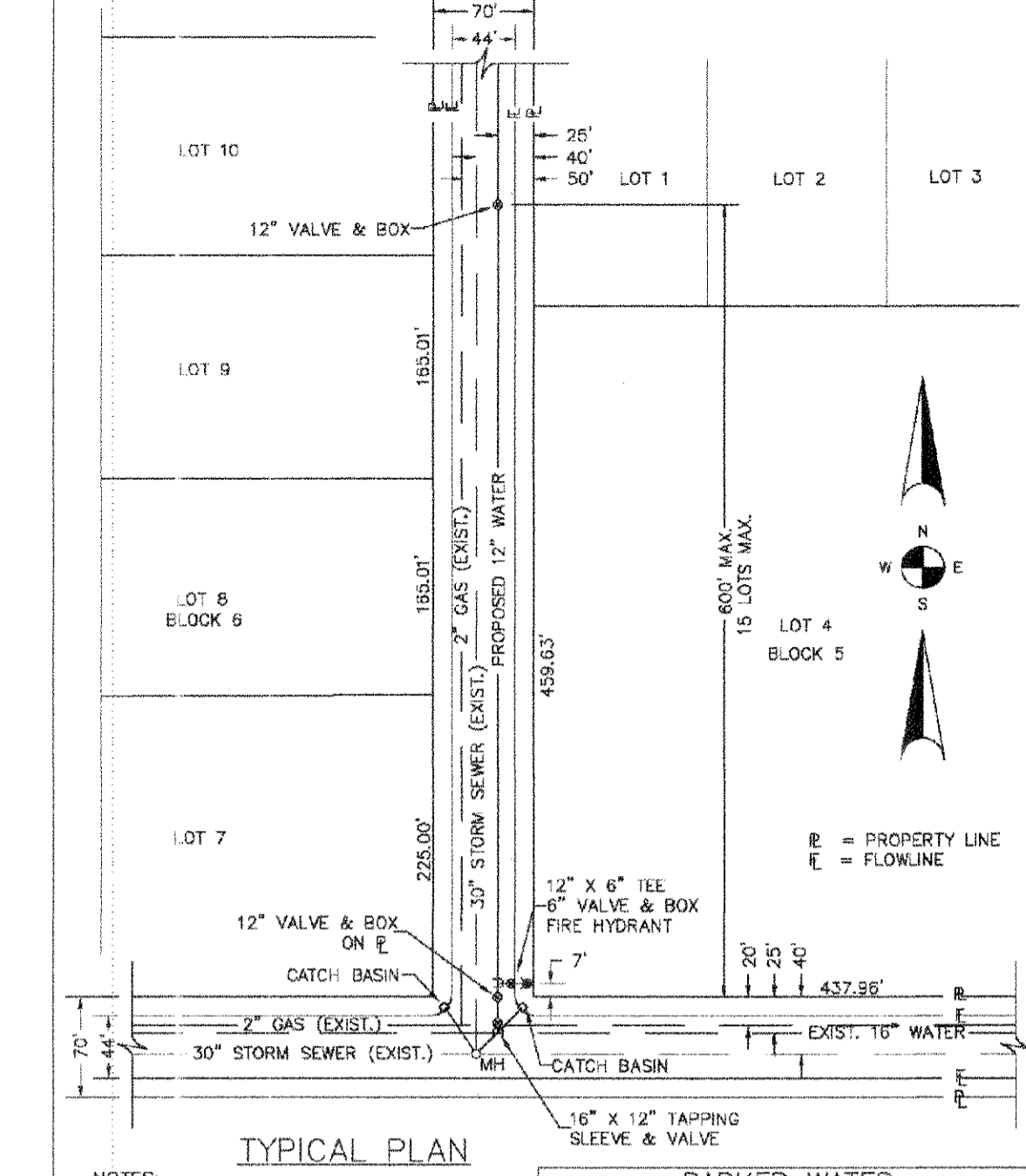
TYPICAL SERVICES SECTION

- NOTE:**
1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
  2. REFER TO SEWER SERVICES DETAIL SHEET S1.2
  3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

TYPICAL WATER SERVICES	
SCALE: NONE	DATE: 2/98
APPROVED: 1/24 10/16	10/20
PVR	12/07
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W1.2



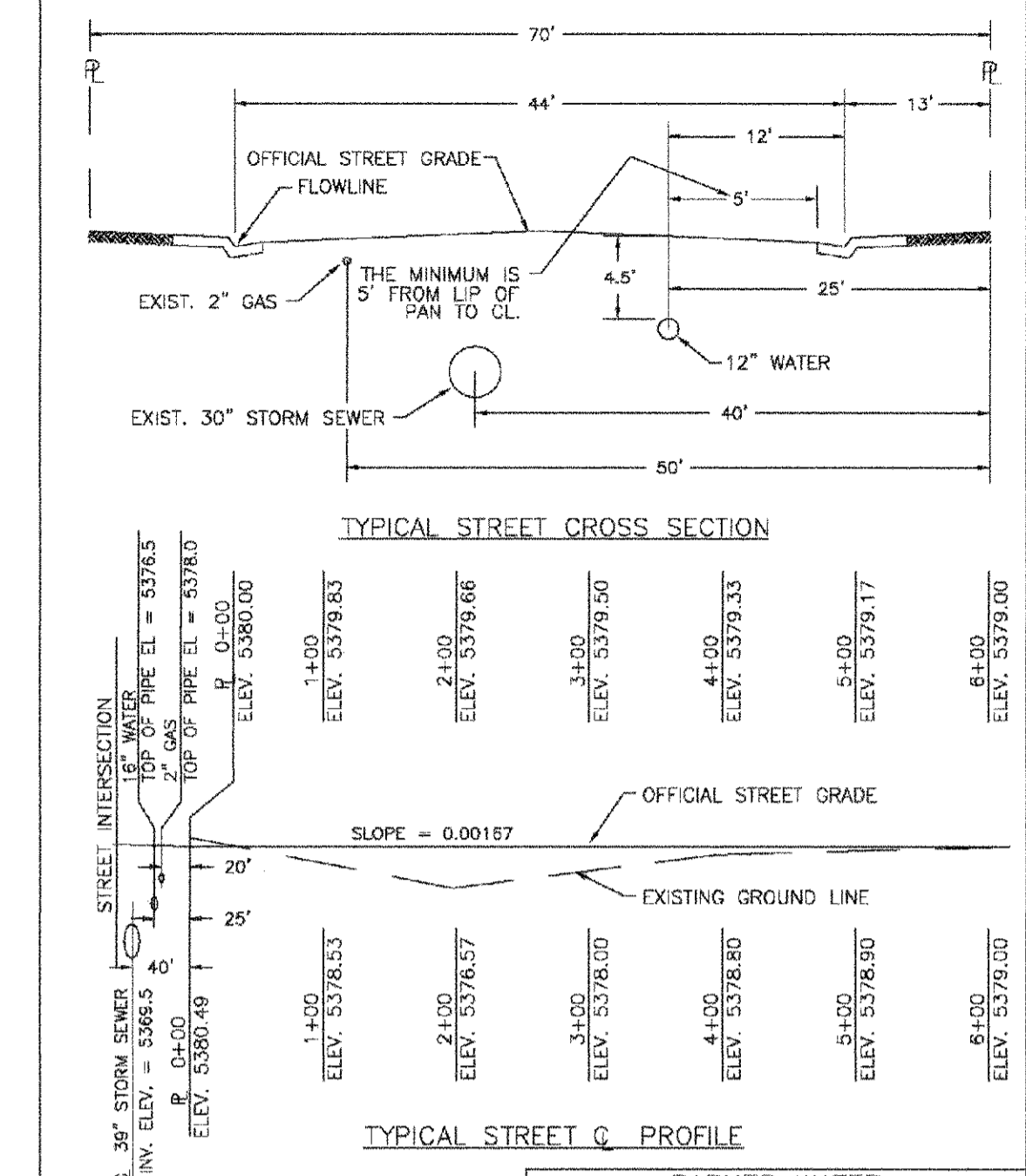
TYPICAL PLAN

- NOTES:**
1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q PROFILE" DRAWING.
  2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN	
SCALE: NONE	DATE: 2/98
APPROVED: 1/16	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET W1.1

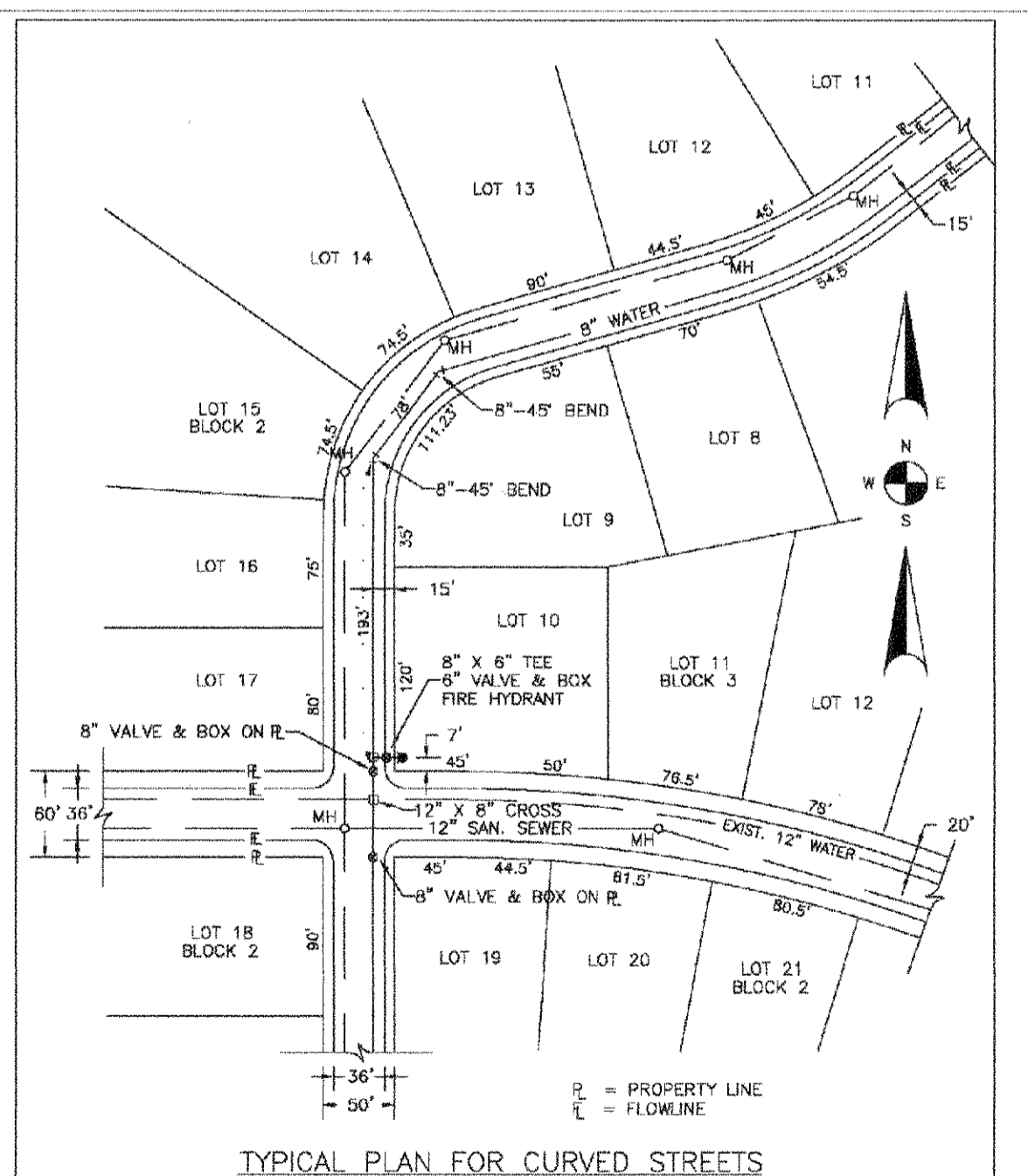


TYPICAL STREET CROSS SECTION

PARKER WATER & SANITATION DISTRICT TYPICAL STREET CROSS SECTION	
SCALE: NONE	DATE: 2/98
APPROVED: 1/16	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET W2.2



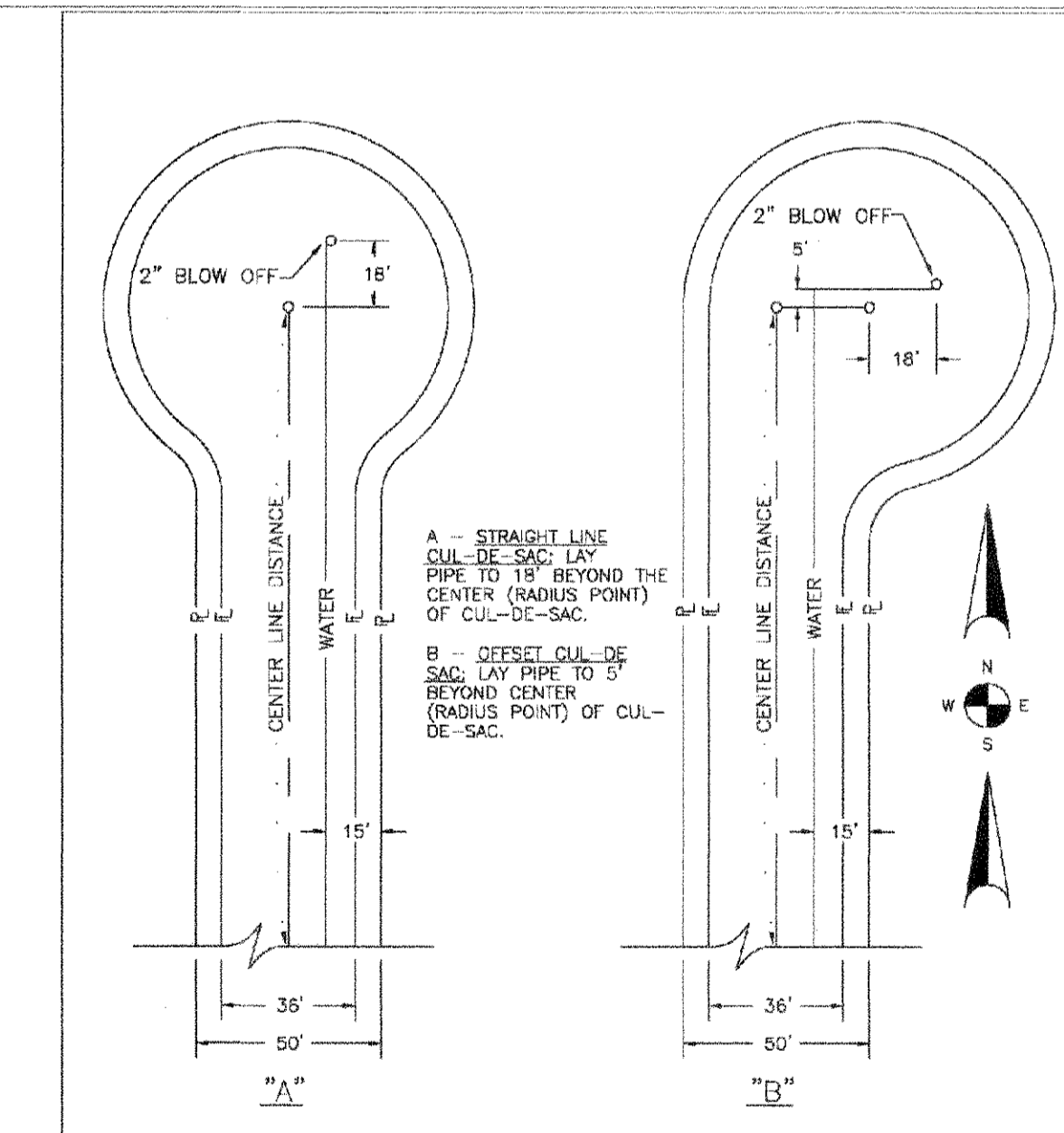
TYPICAL PLAN FOR CURVED STREETS

- NOTE:** WATER AND SEWER MAY NEVER BE CLOSER THAN 10" HORIZONTALLY AND MUST MAINTAIN A MINIMUM OF 5" FROM THE LIP OF PAN ON THE CUTTER.

PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CURVED STREETS	
SCALE: NONE	DATE: 2/98
APPROVED: 1/16	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET W2.3



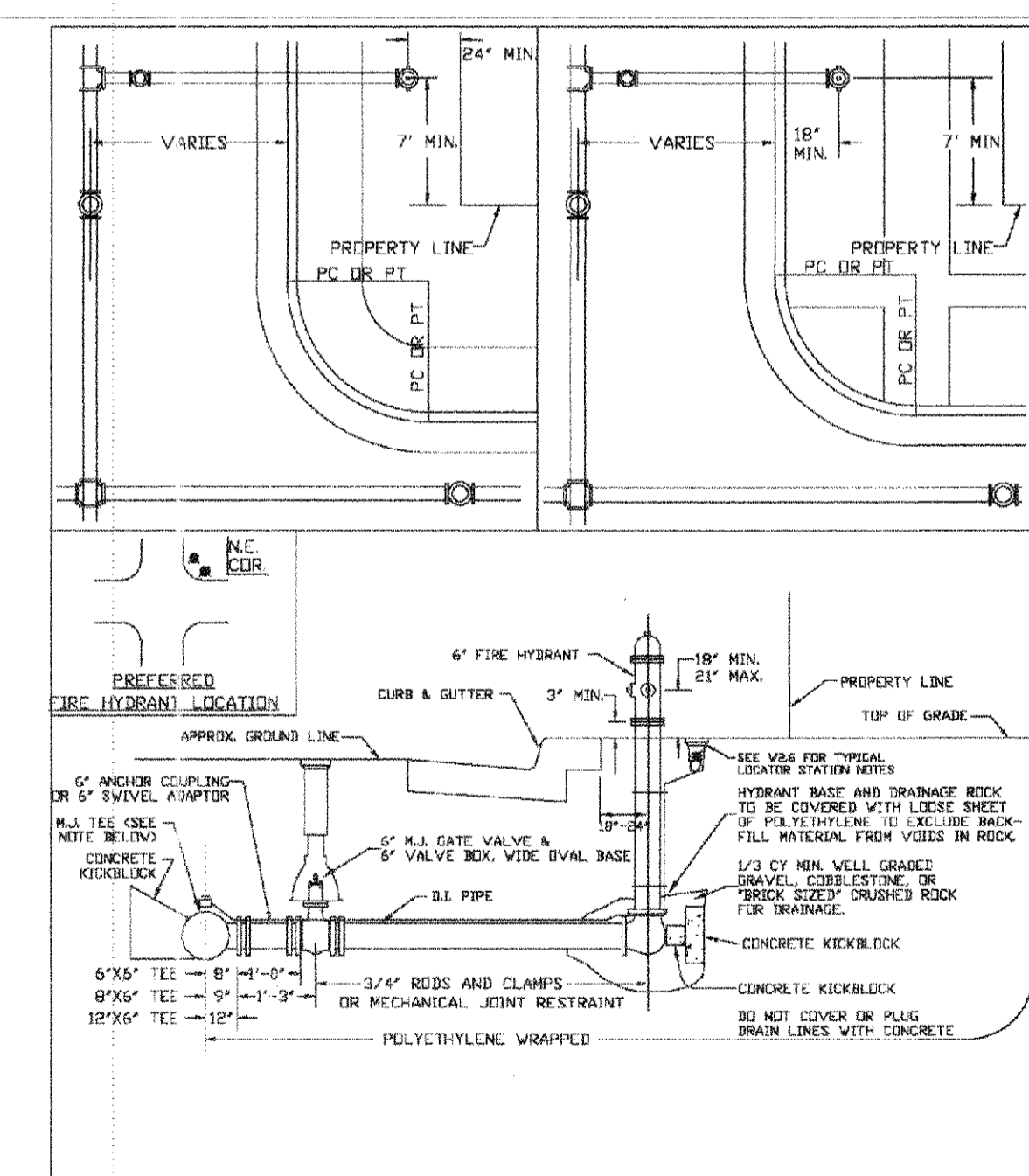
TYPICAL PLAN FOR CUL-DE-SACS

- NOTE:**
- A - STRAIGHT LINE CUL-DE-SAC LAY PIPE TO 15' BEYOND THE CENTER (RADIUS POINT) OF CUL-DE-SAC.
  - B - OFFSET CUL-DE-SAC LAY PIPE TO 5' BEYOND CENTER (RADIUS POINT) OF CUL-DE-SAC.

PARKER WATER & SANITATION DISTRICT WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CUL-DE-SACS	
SCALE: NONE	DATE: 2/98
APPROVED: 1/16	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET W2.4



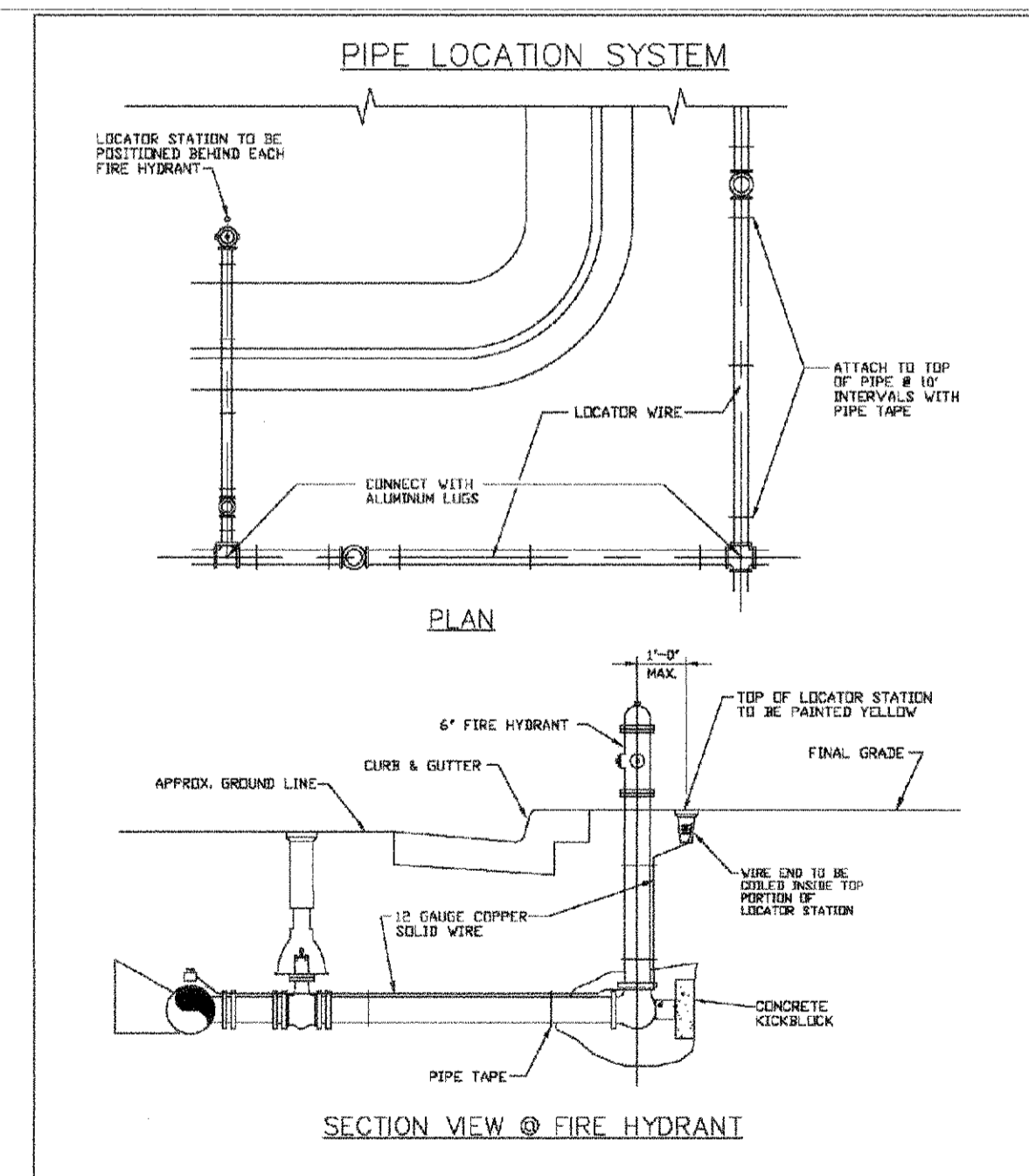
PARKER WATER & SANITATION DISTRICT FIRE HYDRANTS LOCATION & INSTALLATION

- NOTES:**
1. ALTERNATE TO THE ABOVE: FASTEN FL VALVE DIRECTLY TO A 6" ANCHOR BOLT OR 1/2" DIA. BOLT (MIN. 110).
  2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH.
  3. NO PORTION OF FIRE HYDRANT MAY
  4. FIRE HYDRANT EXTENSIONS MAY NOT PENETRATE INTO NEARBY AREA.

PARKER WATER & SANITATION DISTRICT FIRE HYDRANTS LOCATION & INSTALLATION	
SCALE: NONE	DATE: 2/98
APPROVED: 4/01 10/16	10/20
PVR	12/07
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W2.5



PARKER WATER & SANITATION DISTRICT LOCATOR WIRE DETAILS

- NOTES:**
1. FOR USE IN ALL DUCTILE IRON AND PVC WATER MAINS.
  2. LOCATOR STATION POSITION MAY BE ADJUSTED AT THE DISCRETION OF THE SEWER ENGINEER.
  3. A CONTINUITY TEST WILL BE REQUIRED PRIOR TO PRELIMINARY ACCEPTANCE.

PARKER WATER & SANITATION DISTRICT LOCATOR WIRE DETAILS	
SCALE: NONE	DATE: 2/98
APPROVED: 4/01	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	10/16

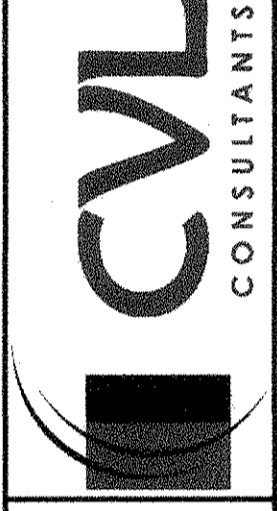
2016 REVISION

SHEET W2.6

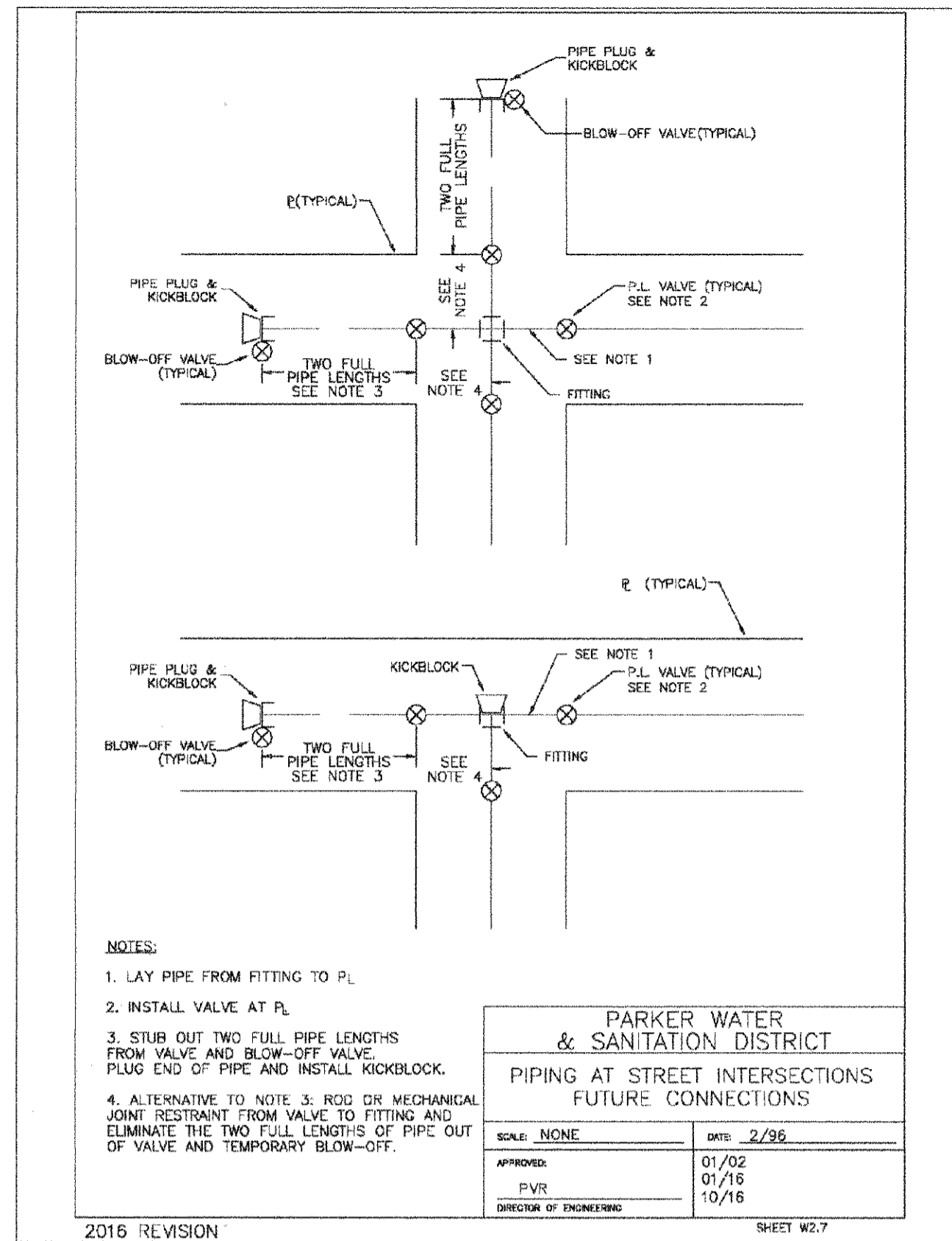
IN PROJECT SHESS RANCH/CAD/ENGINEERING/SHEET SETS/CSDS/PARKER WATER AND SANITATION'S WATER DETAILS DWG. CDDVA. 3/6/2018 10:26 AM

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

SHEET NUMBER	15	DRAWN BY: JF	CHECKED BY: JJJ	DATE: AUGUST 2017	SCALE: AS SHOWN	FILE NO: 8130263701	PROJECT: TRAILS AT CROWFOOT FILING 5 CONSTRUCTION DRAWINGS WATER DETAILS	FIRM: HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	CONTACT: 10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9946	Revisions	Date	Appr.	Date
	No.												



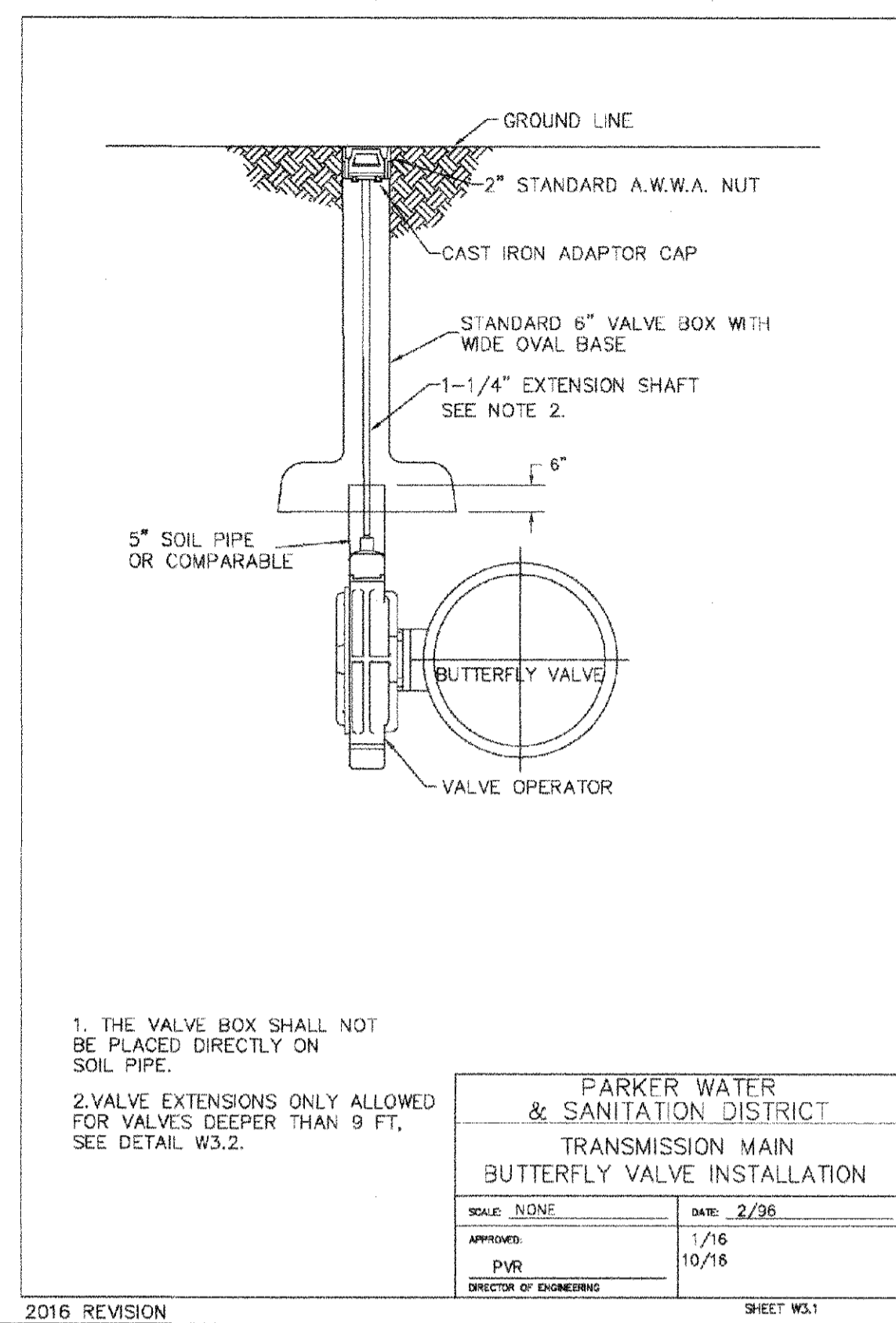
APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT



PARKER WATER & SANITATION DISTRICT	
PIPING AT STREET INTERSECTIONS FUTURE CONNECTIONS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 01/02 01/18 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

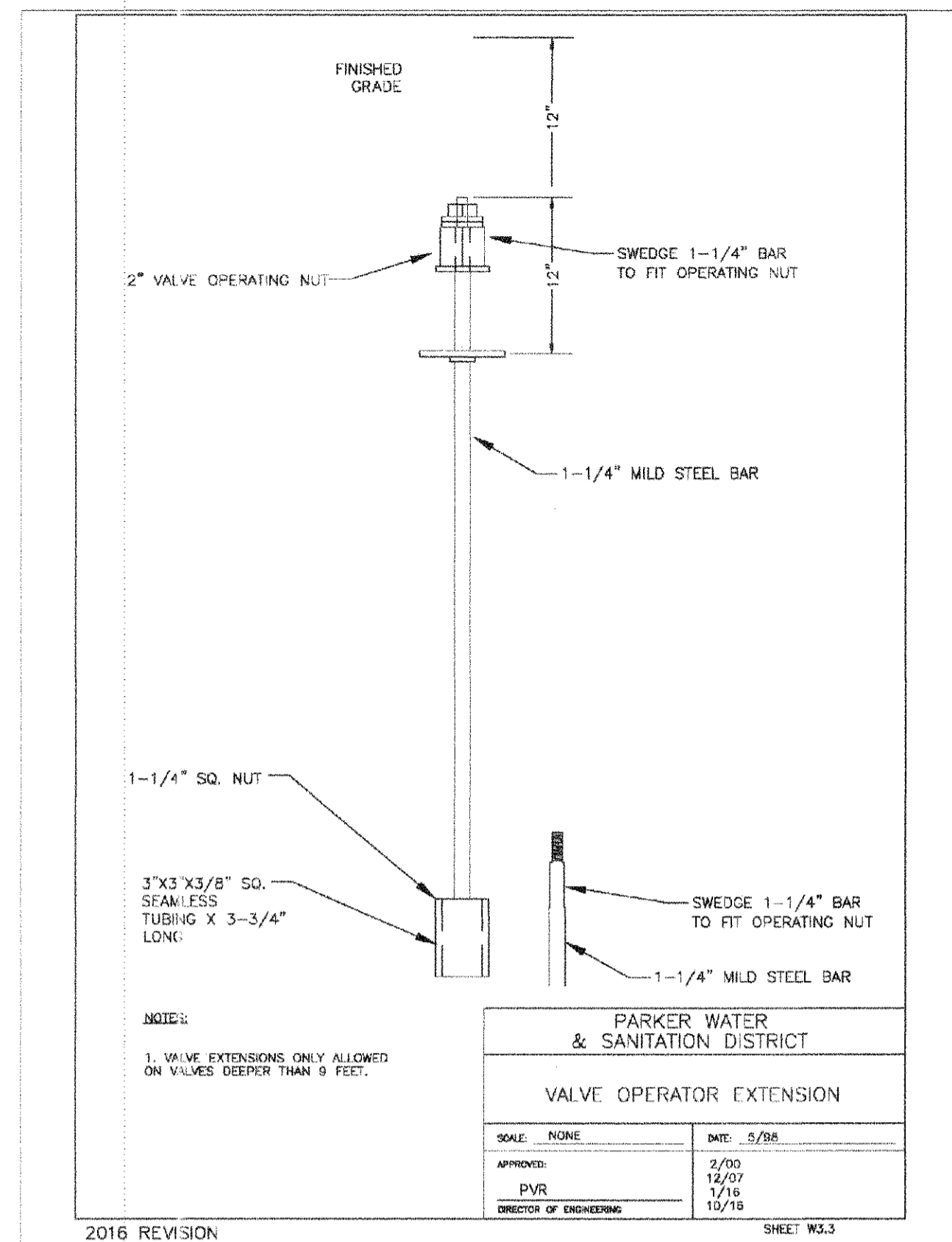
SHEET W3.7



PARKER WATER & SANITATION DISTRICT	
TRANSMISSION MAIN BUTTERFLY VALVE INSTALLATION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

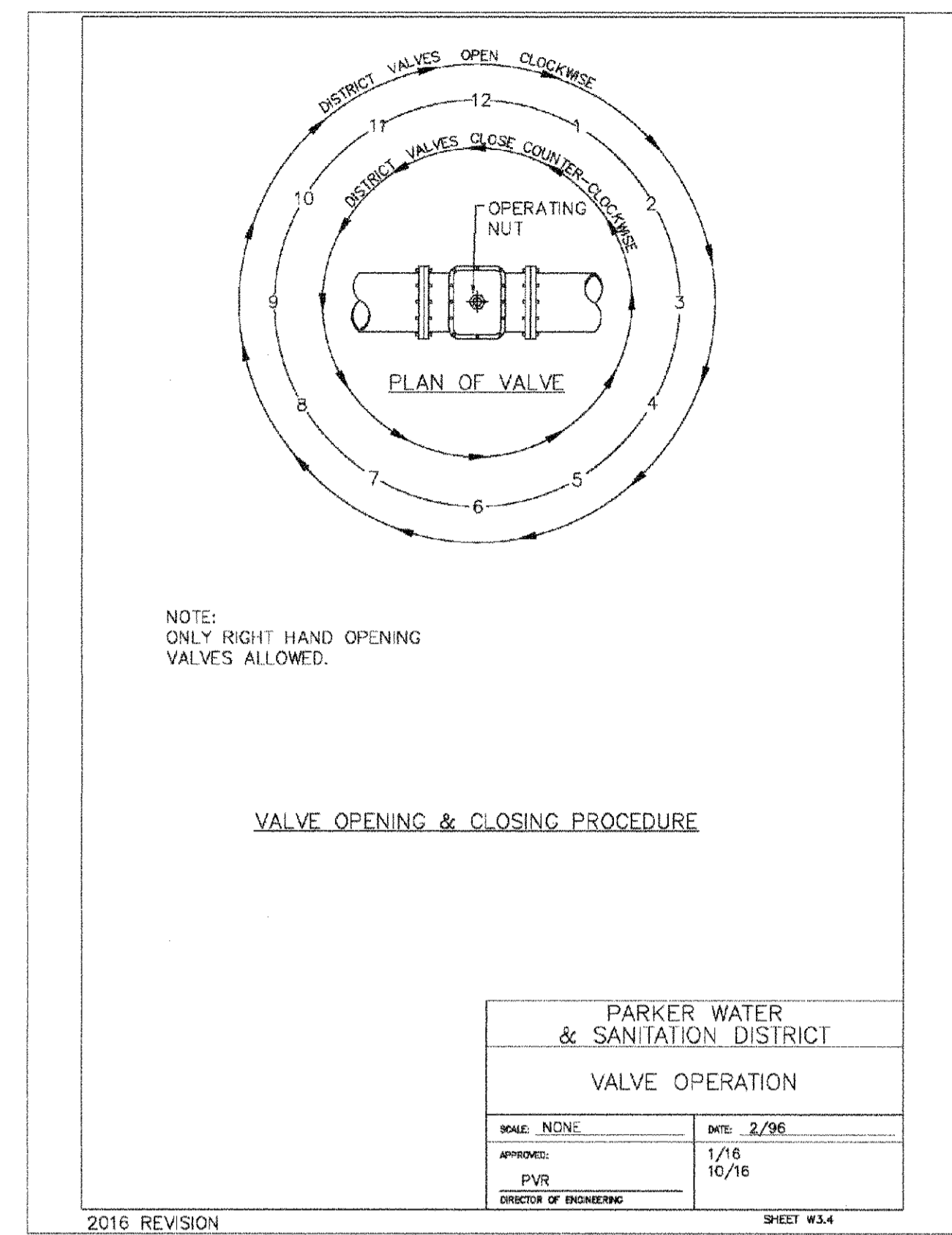
SHEET W3.1



PARKER WATER & SANITATION DISTRICT	
VALVE OPERATOR EXTENSION	
SCALE: NONE	DATE: 5/96
APPROVED: PVR 2/00 12/07 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W3.3

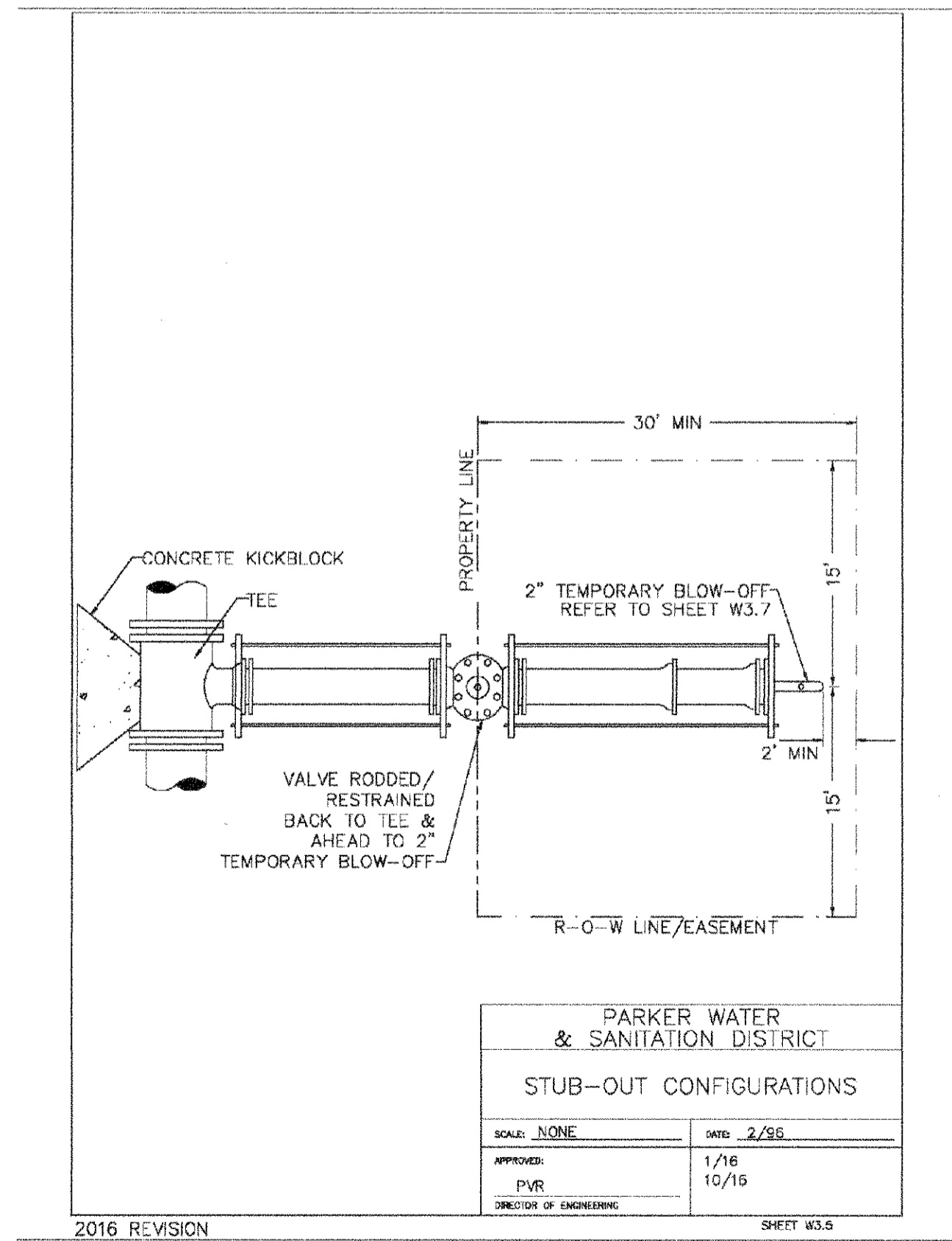


PARKER WATER & SANITATION DISTRICT	
VALVE OPERATION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W3.4

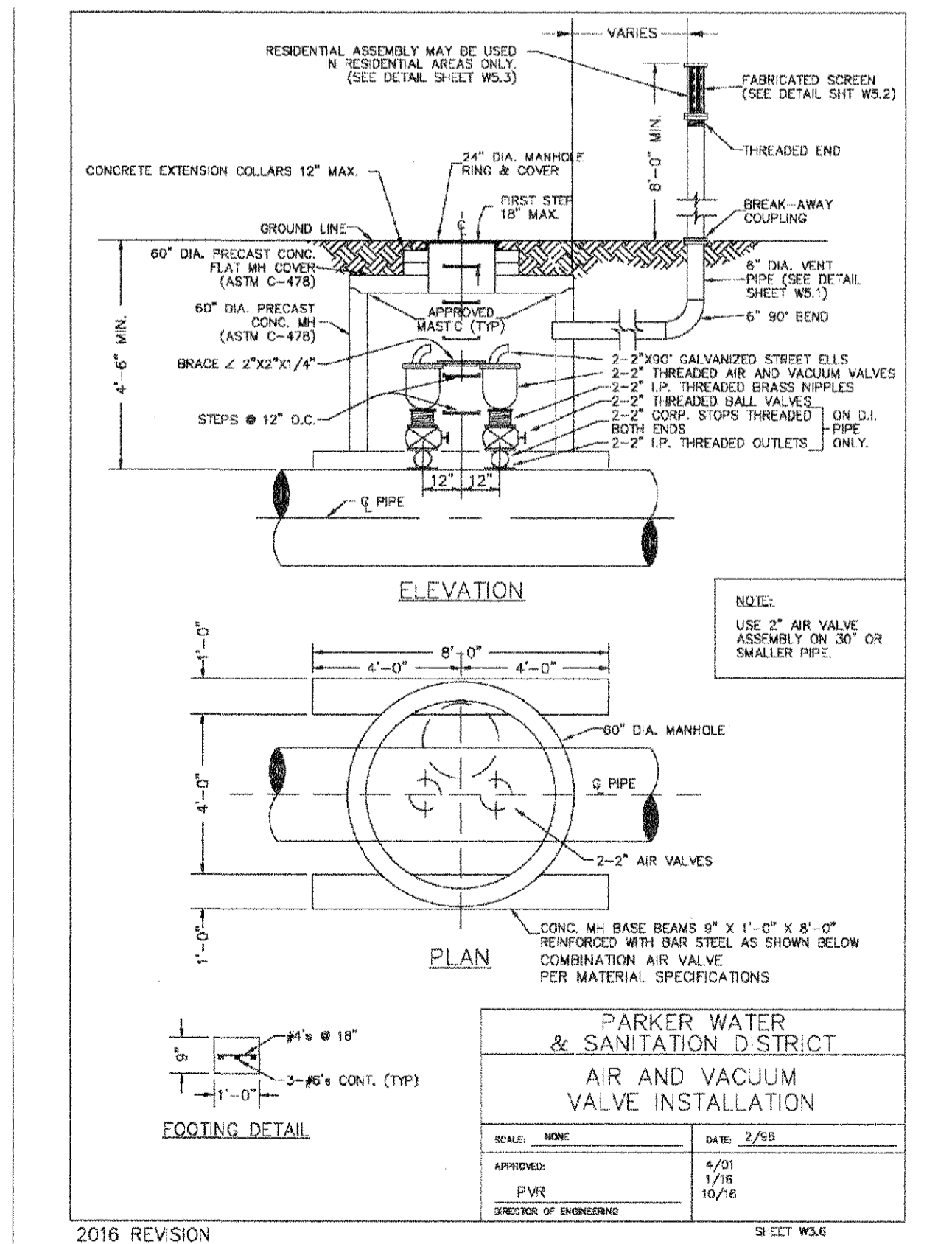
APPROVED  
AUG 14 2019  
PARKER WATER AND SANITATION DISTRICT



PARKER WATER & SANITATION DISTRICT	
STUB-OUT CONFIGURATIONS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 4/01 1/16 10/16	DIRECTOR OF ENGINEERING

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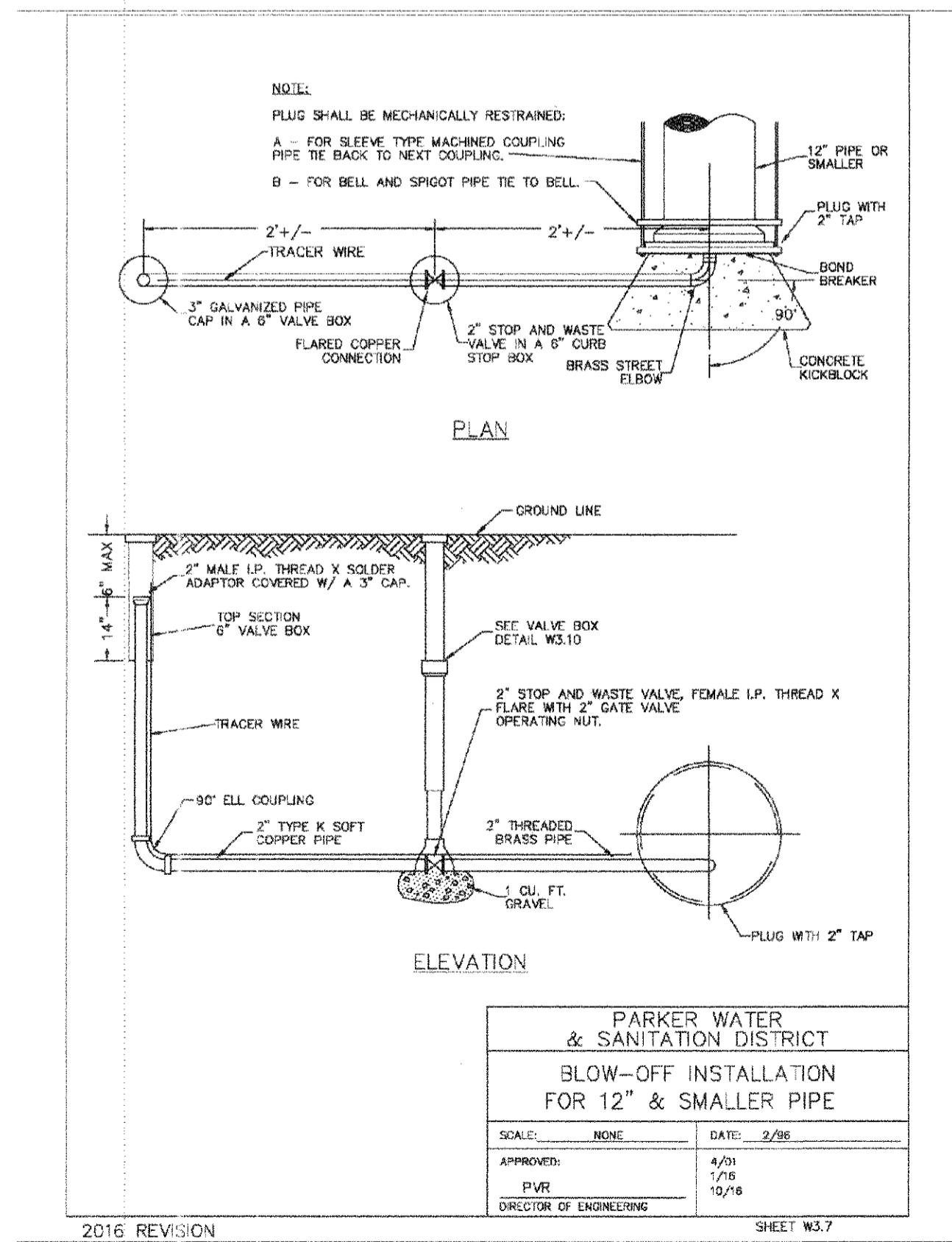
SHEET W3.5



PARKER WATER & SANITATION DISTRICT	
AIR AND VACUUM VALVE INSTALLATION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 4/01 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

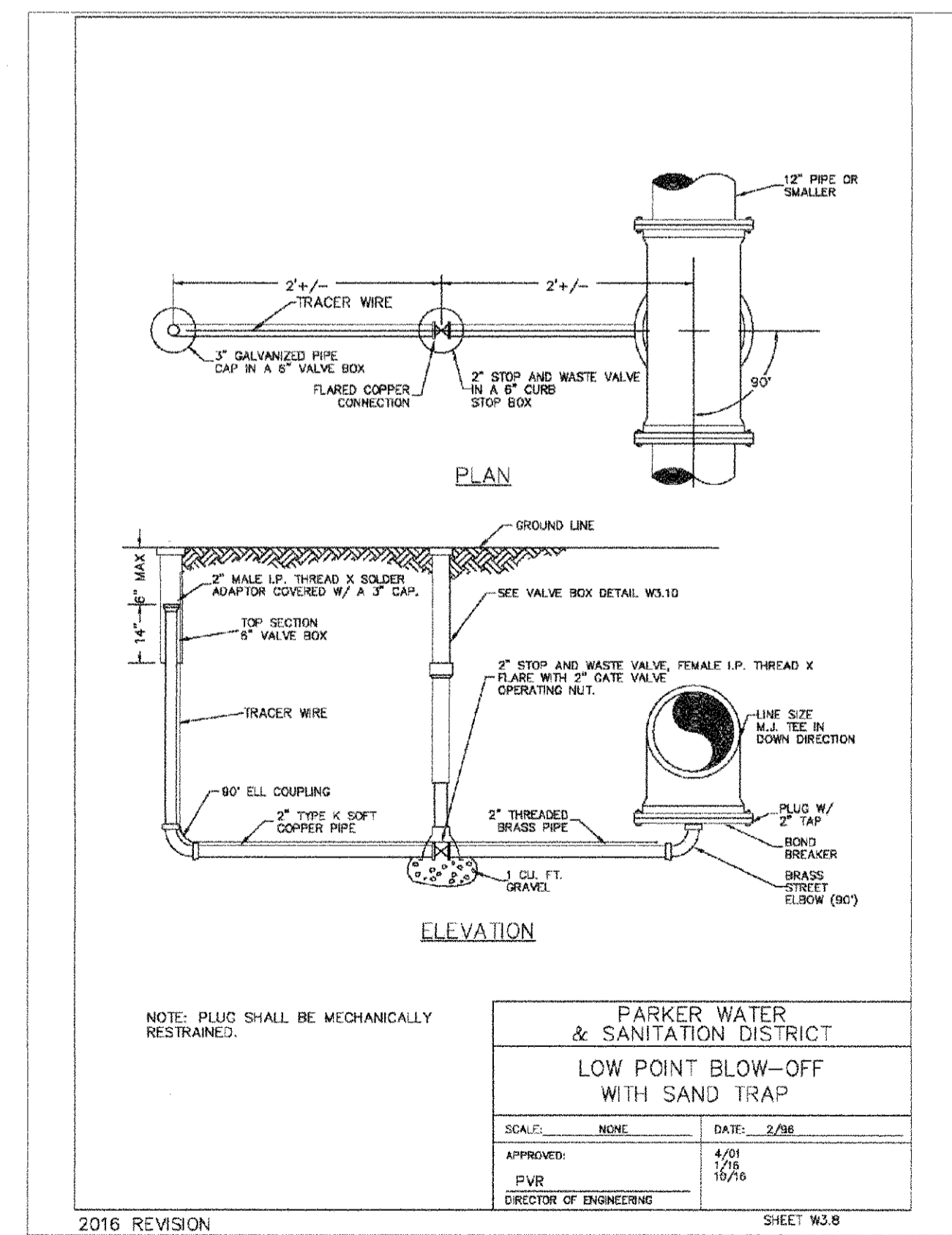
SHEET W3.6



PARKER WATER & SANITATION DISTRICT	
BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 4/01 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W3.7



PARKER WATER & SANITATION DISTRICT	
LOW POINT BLOW-OFF WITH SAND TRAP	
SCALE: NONE	DATE: 2/96
APPROVED: PVR 4/01 1/16 10/16	DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W3.8

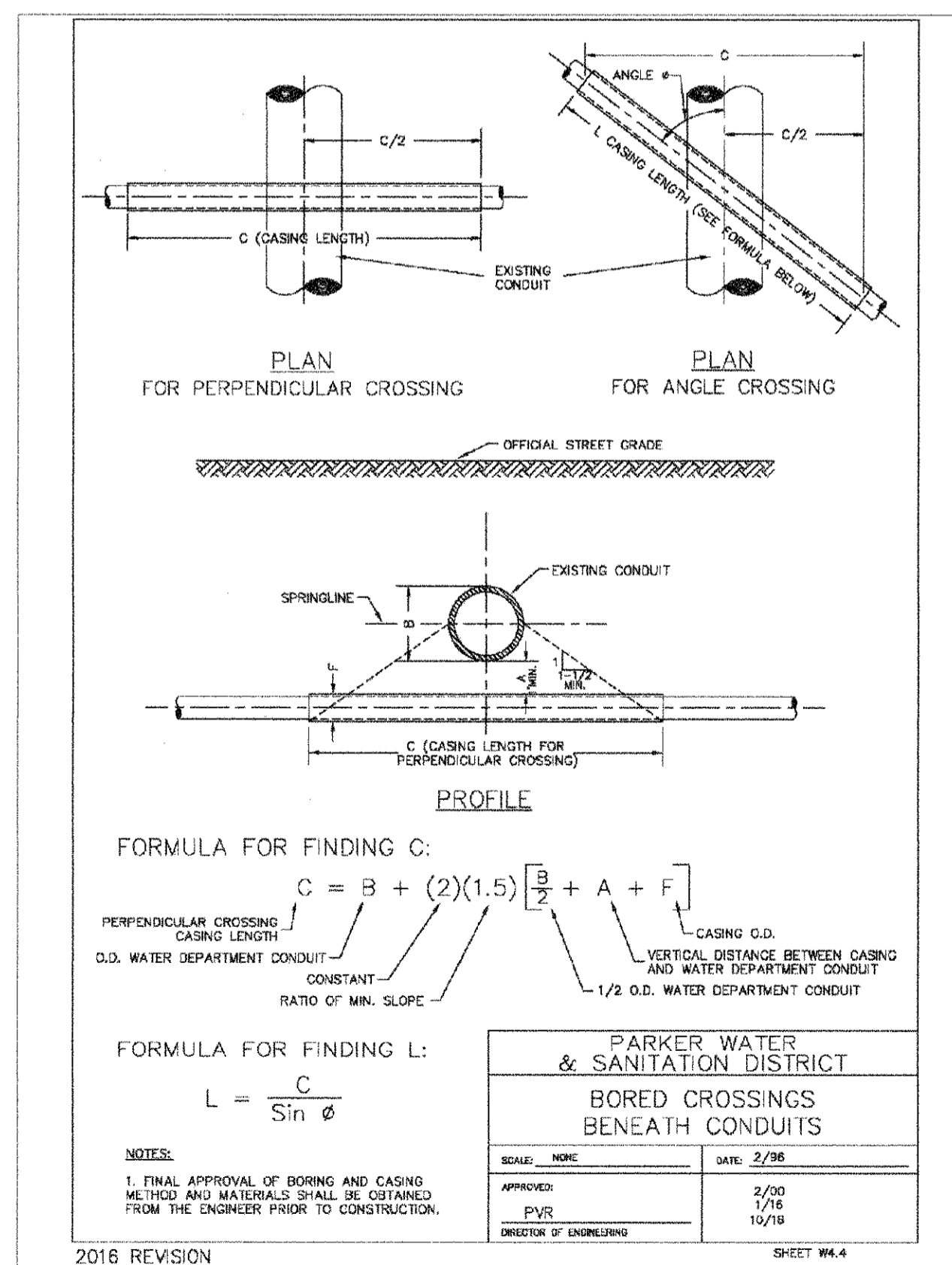
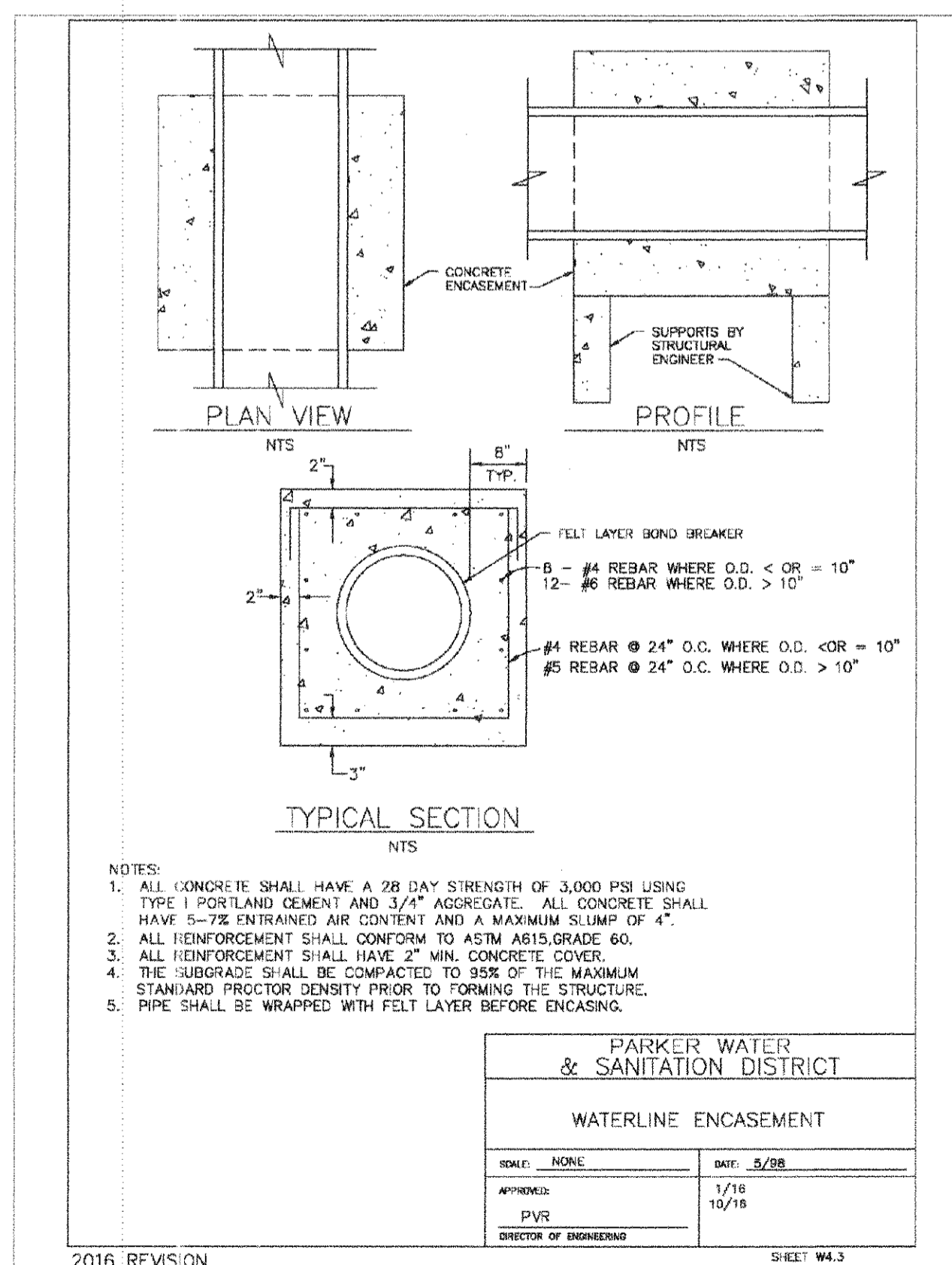
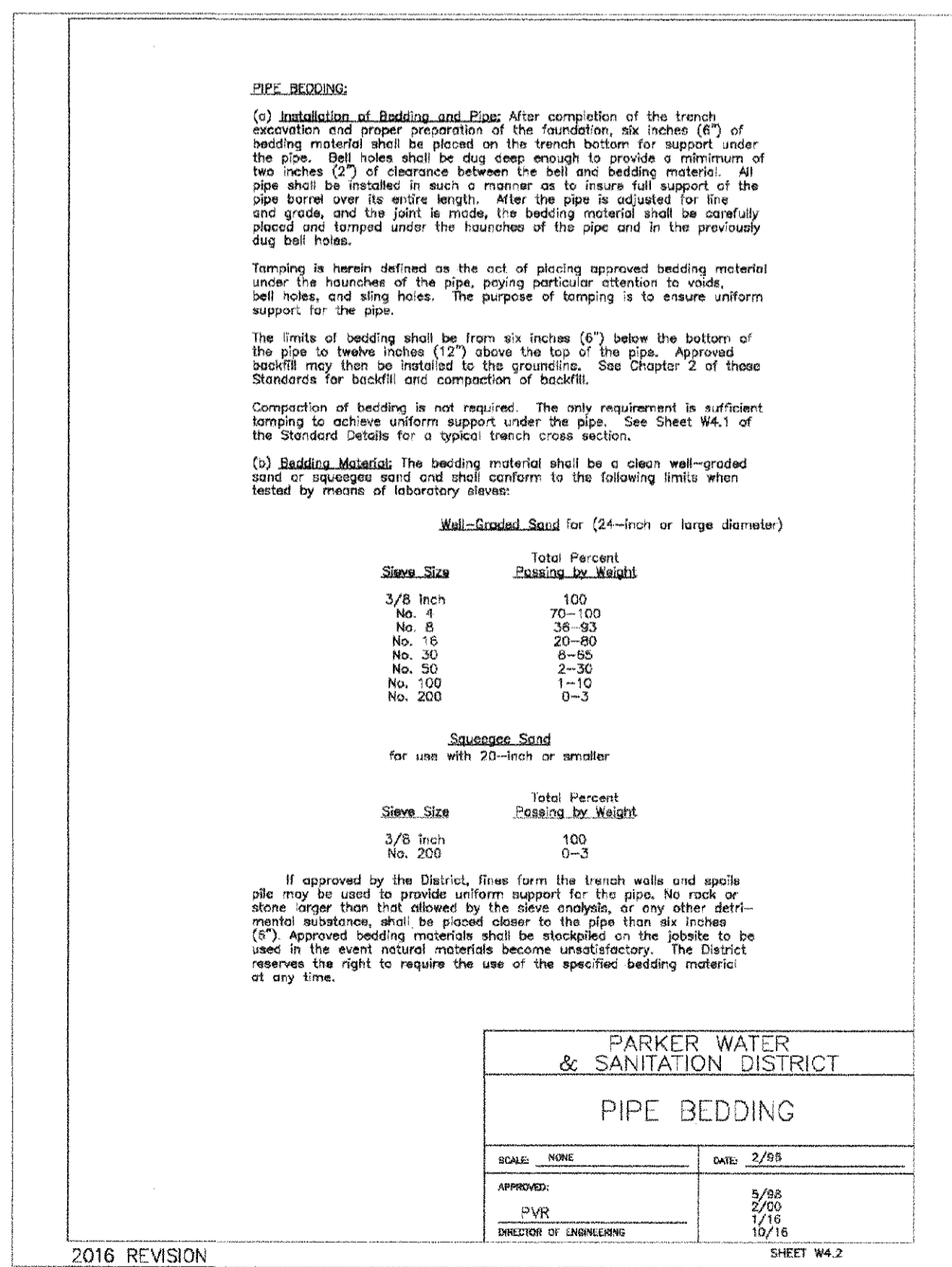
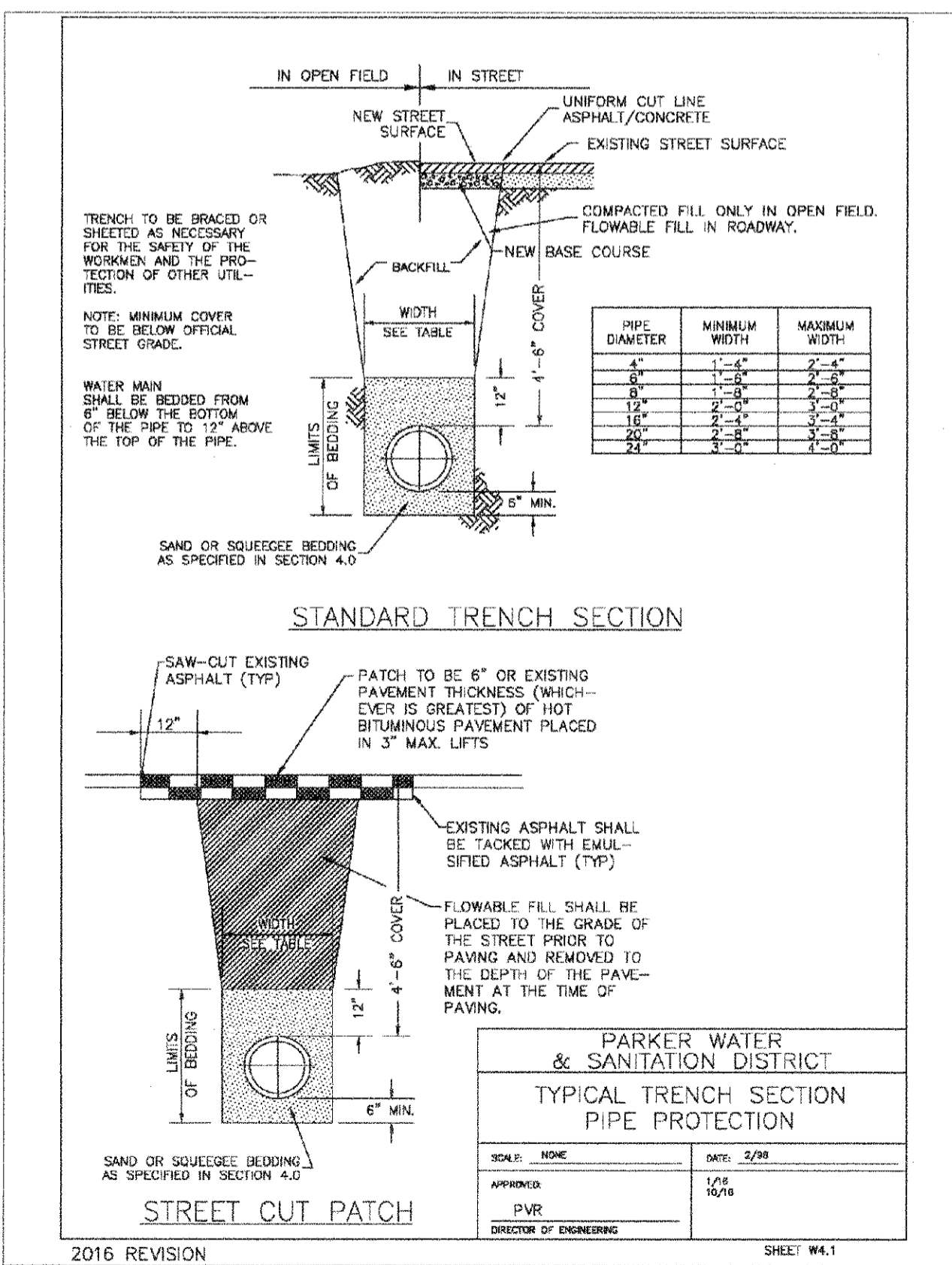
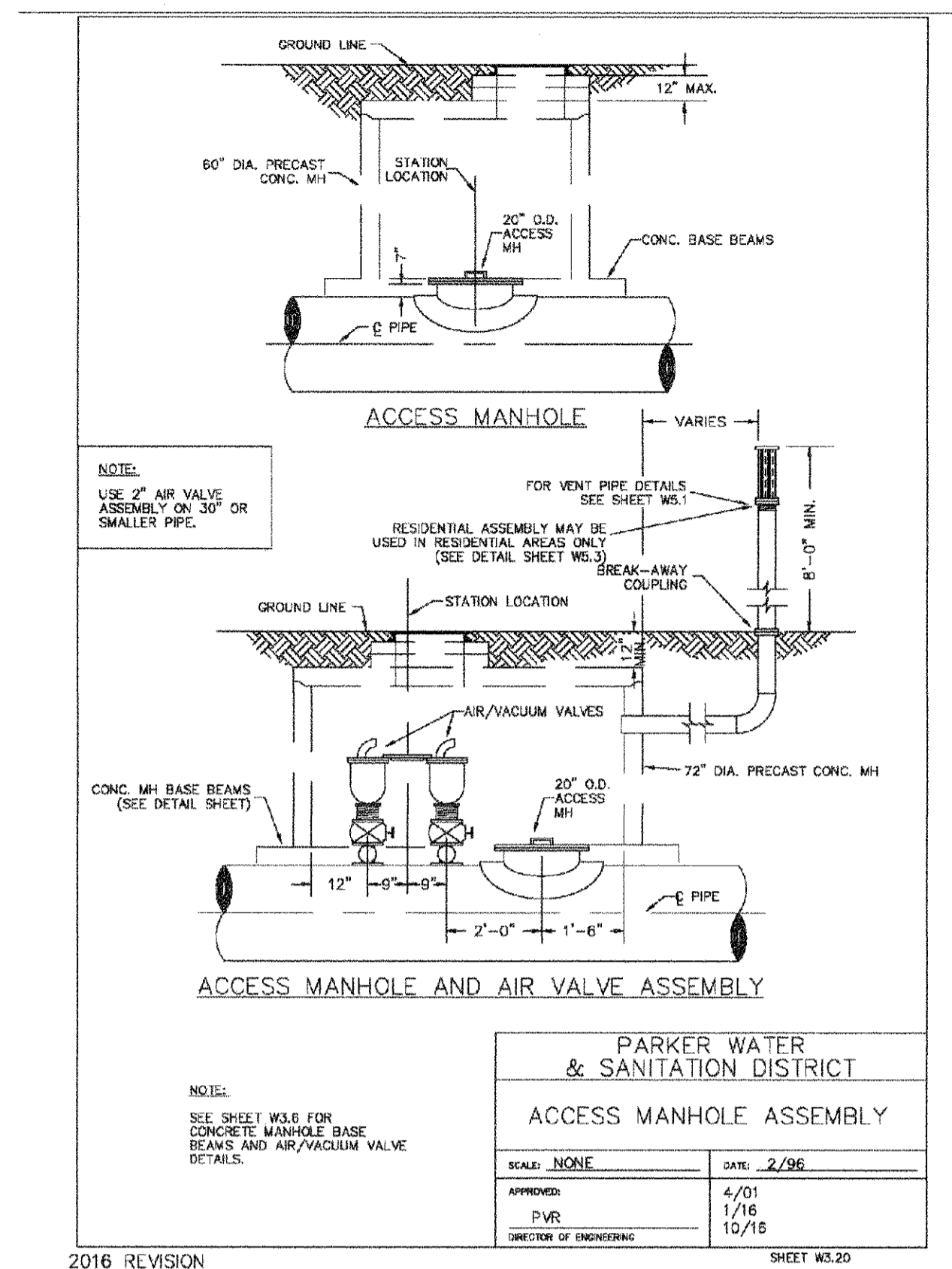
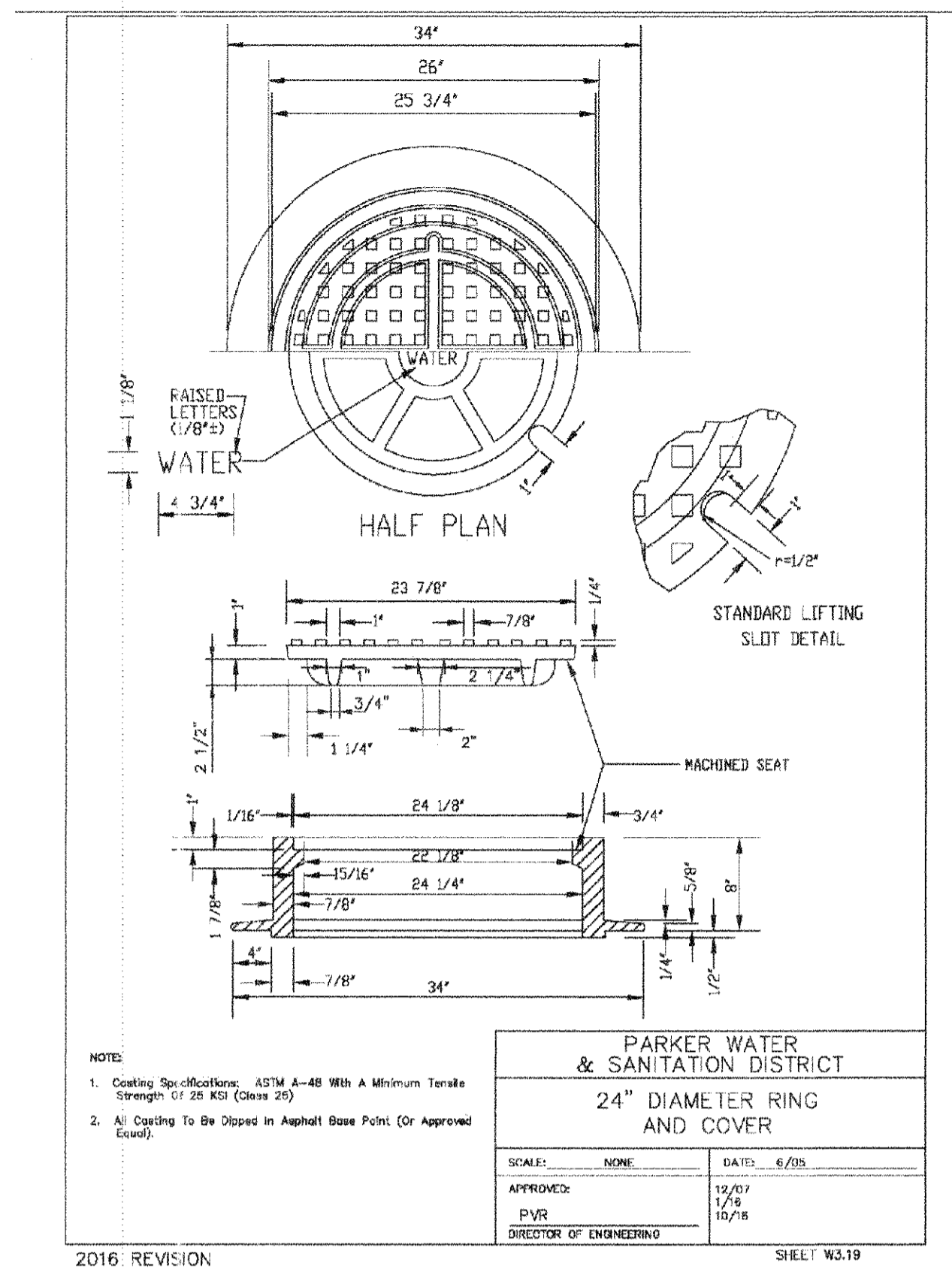
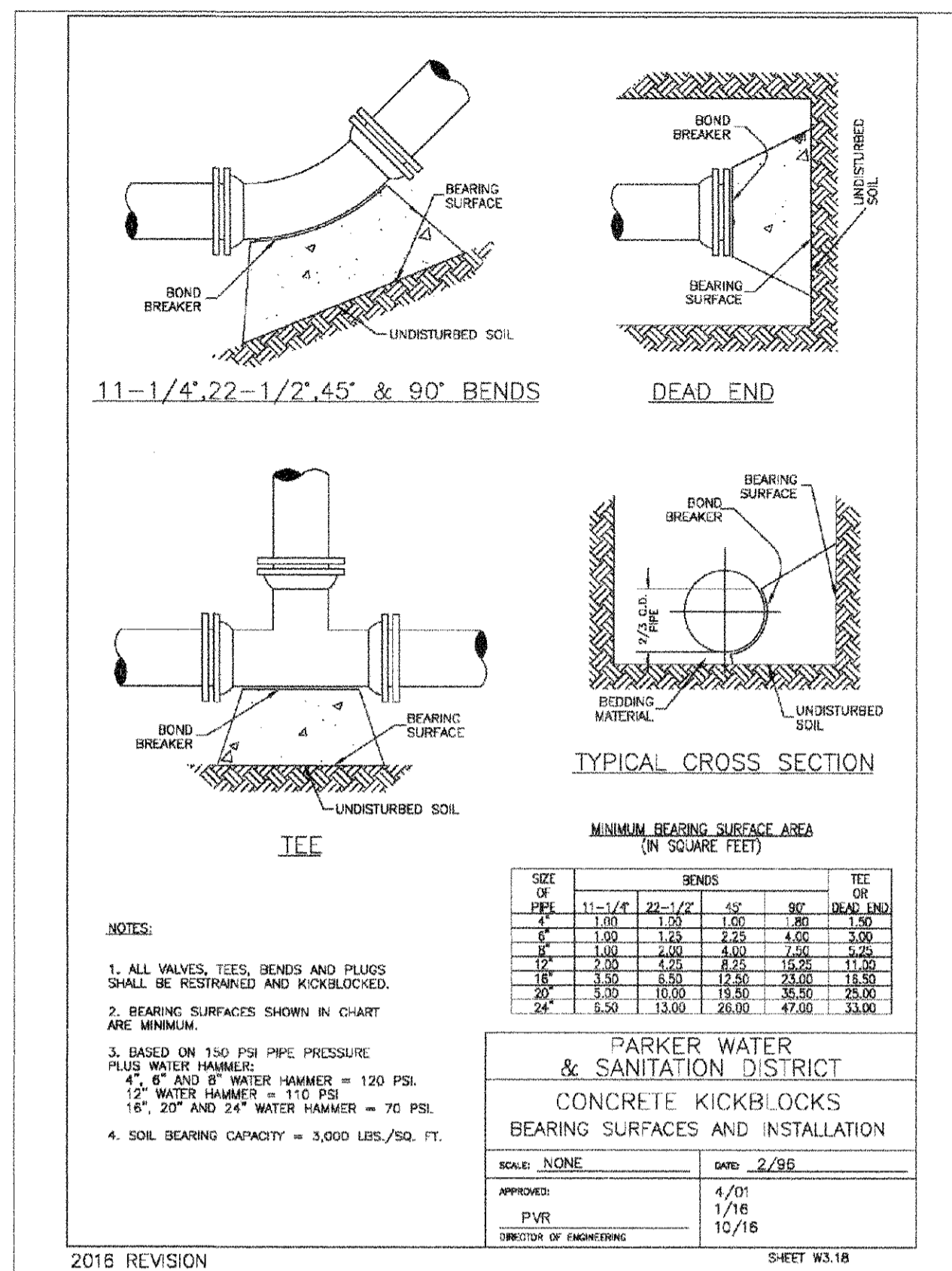
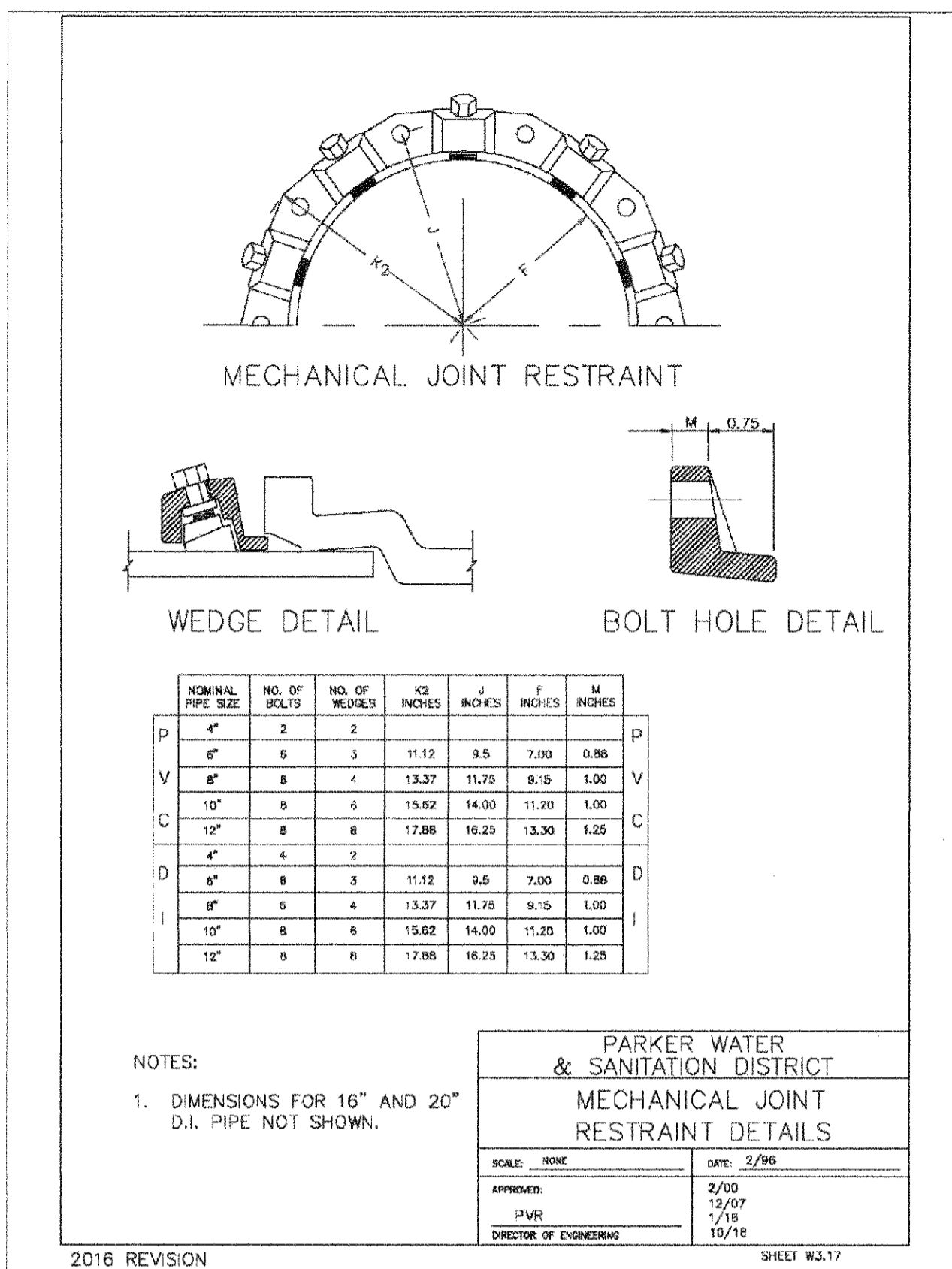
PROJECT SHESS RANCH ENGINEERING SHEET SETS/CSD/S/PARKER WATER AND SANITATION WATER DETAILS DWG. CDDVA, 3/6/2018 10:26 AM

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SHEET NUMBER	DRAWN BY: JF	CHECKED BY: JJJ	DATE: AUGUST 2017	SCALE: A-S SHOWN	FILE NO: 8130283701	Revisions	No.	Date	Init.	Appr.	Date
				PROJECT: SHESS RANCH ENGINEERING SHEET SETS/CSD/S/PARKER WATER AND SANITATION WATER DETAILS DWG. CDDVA, 3/6/2018 10:26 AM	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112						

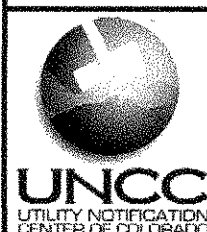
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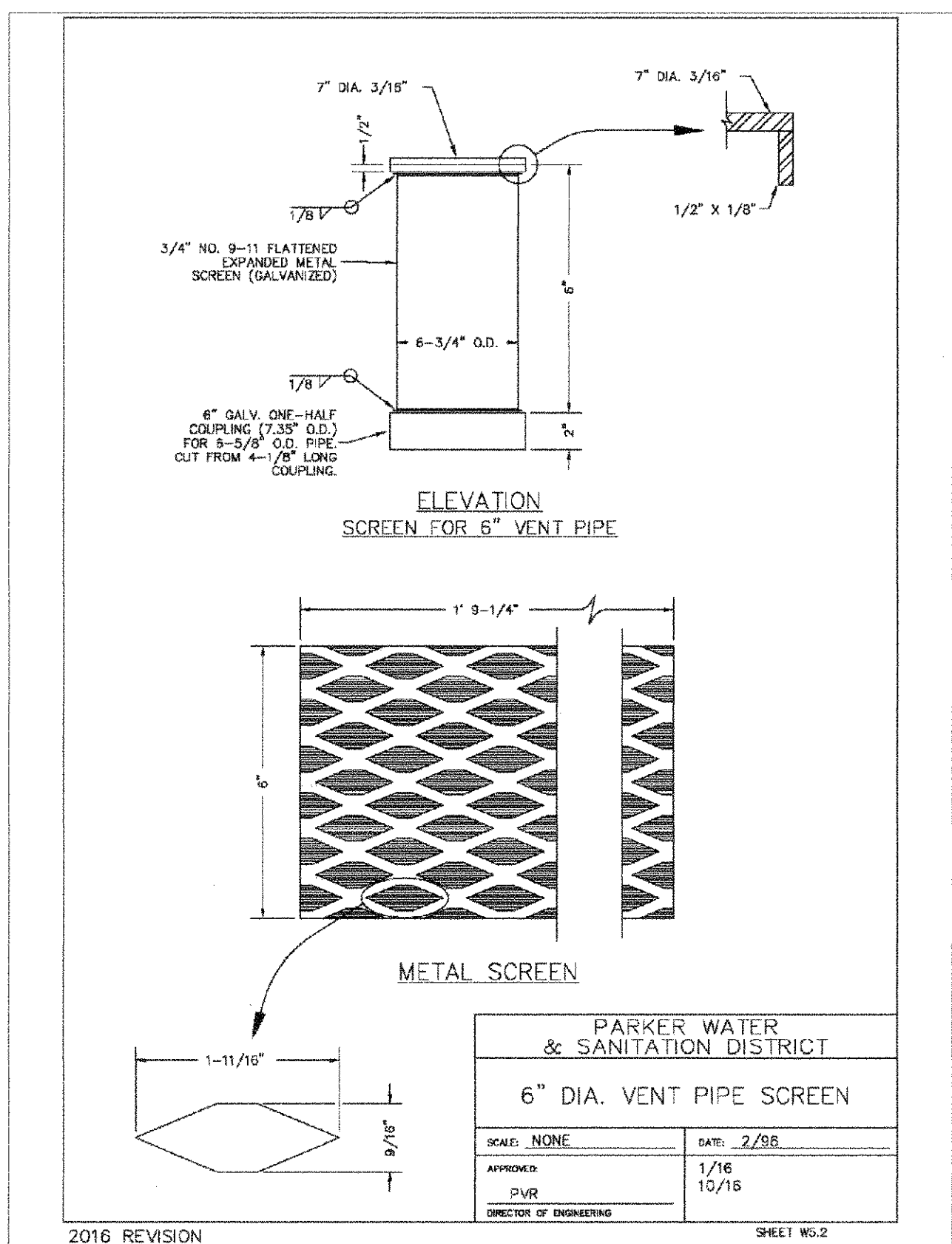
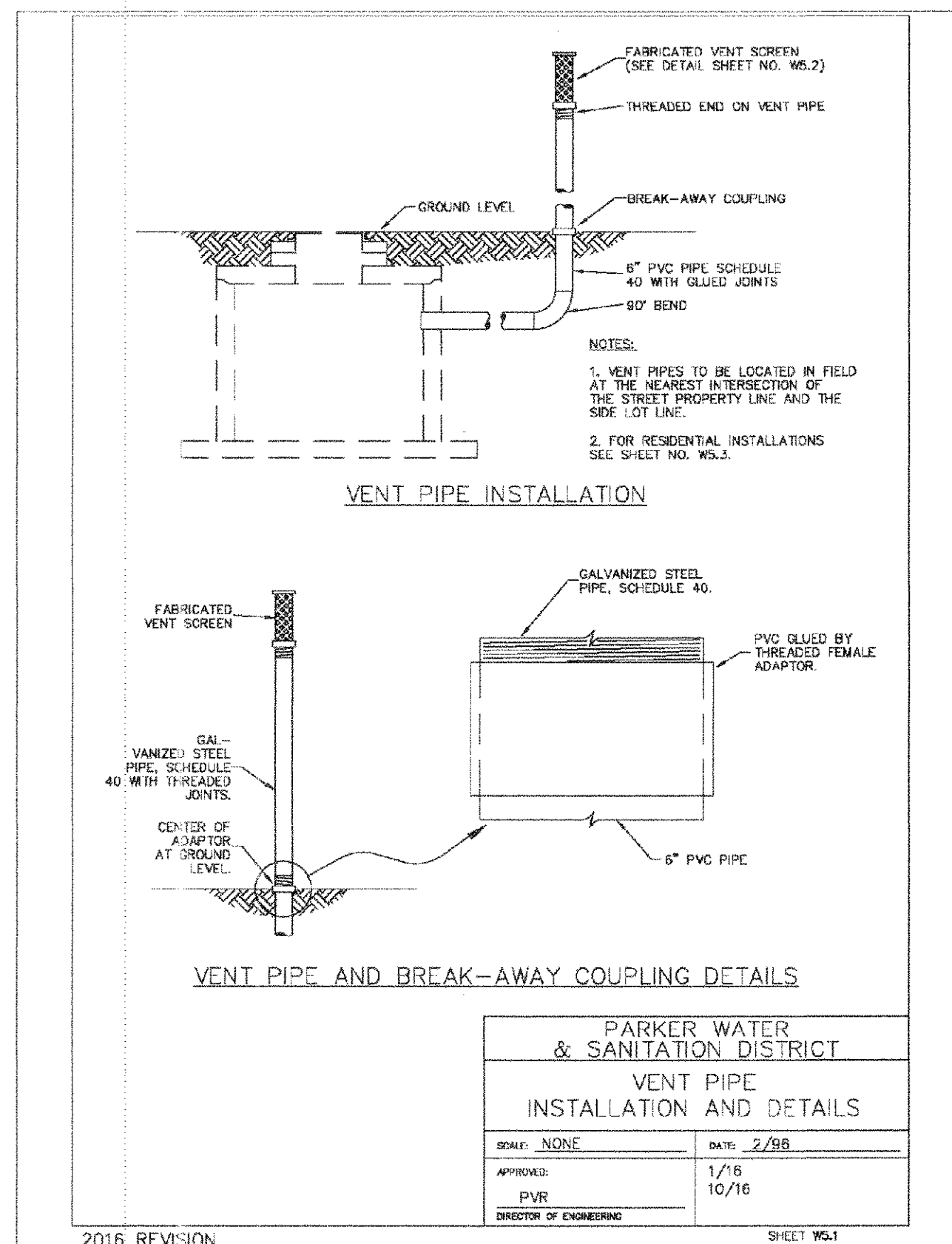
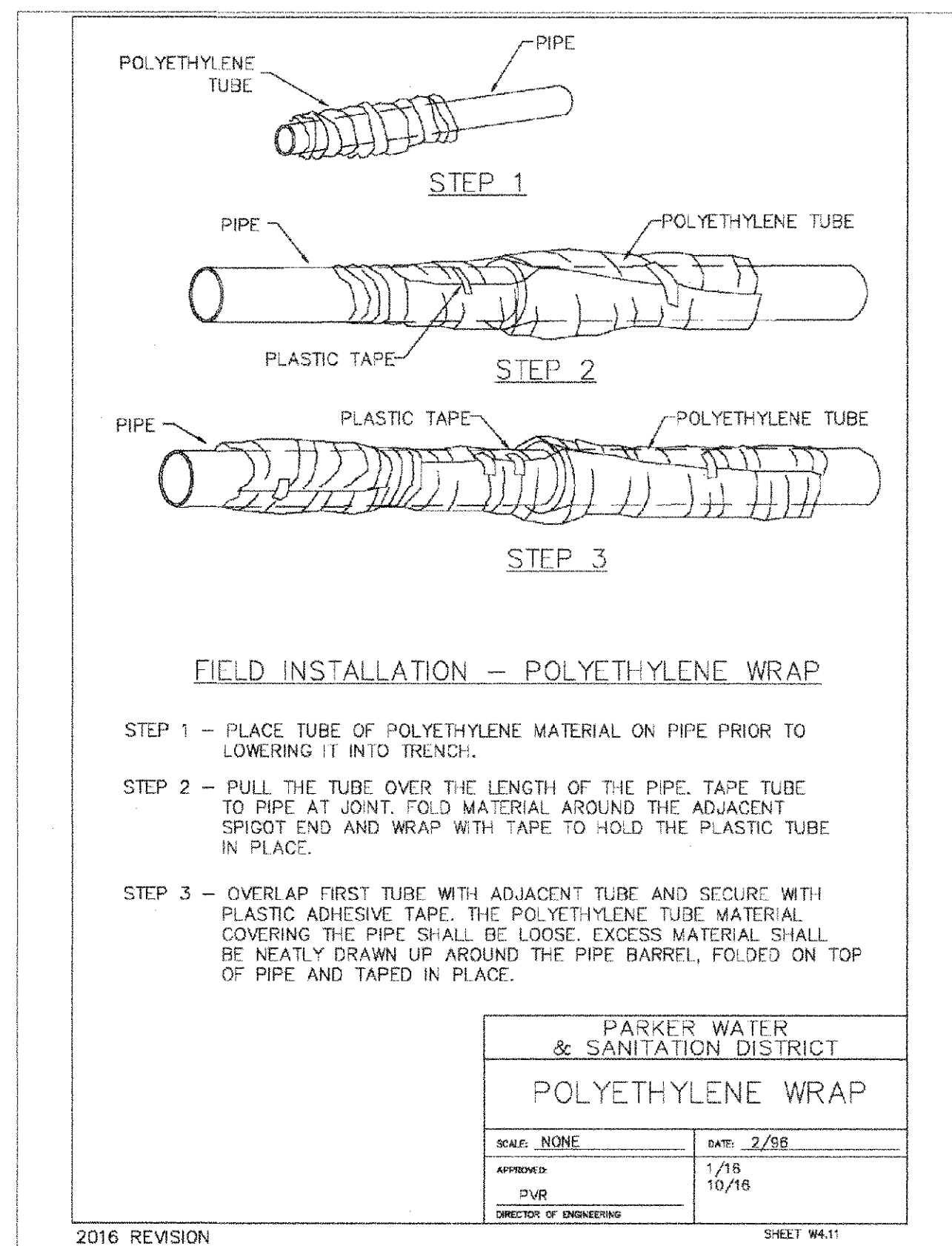
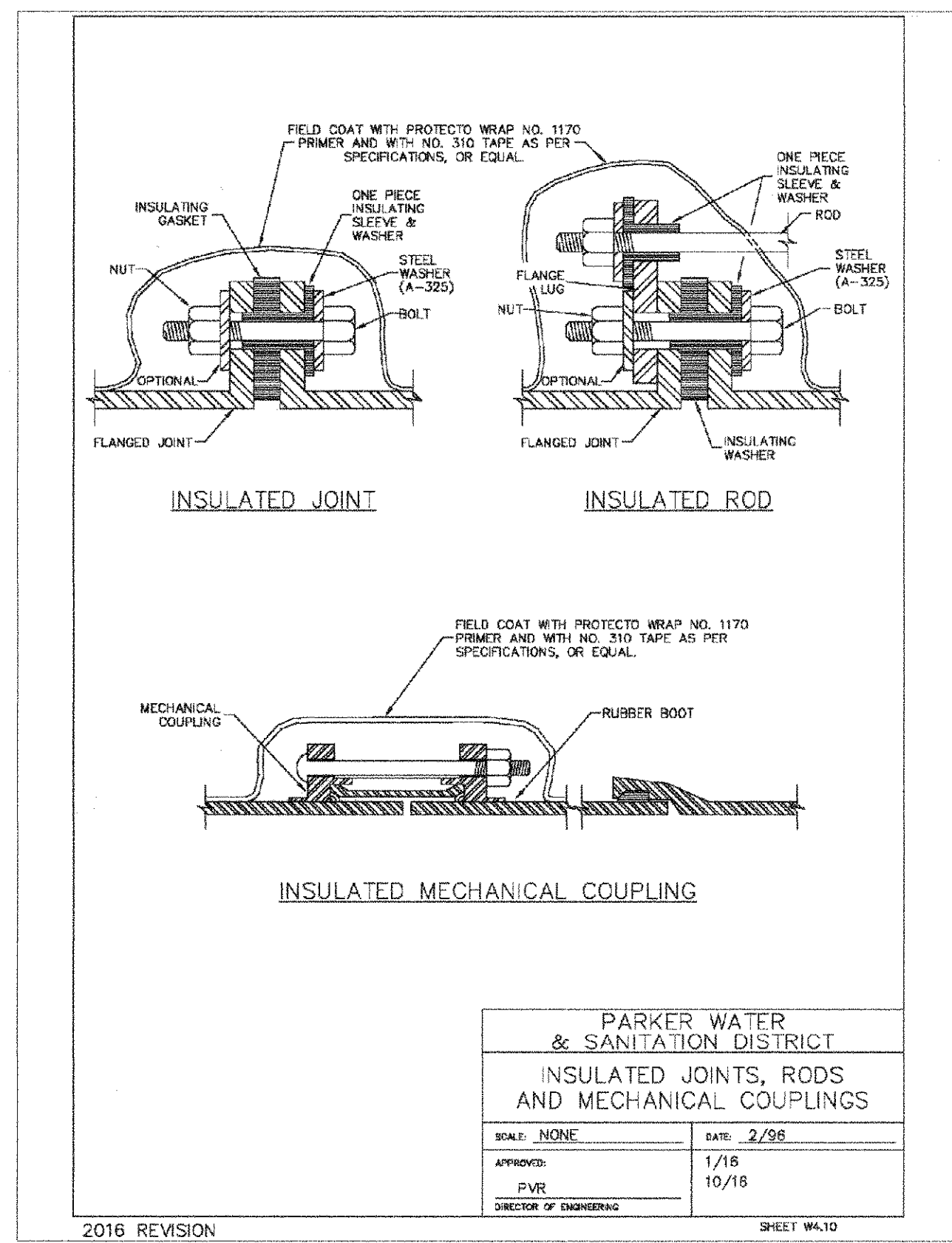
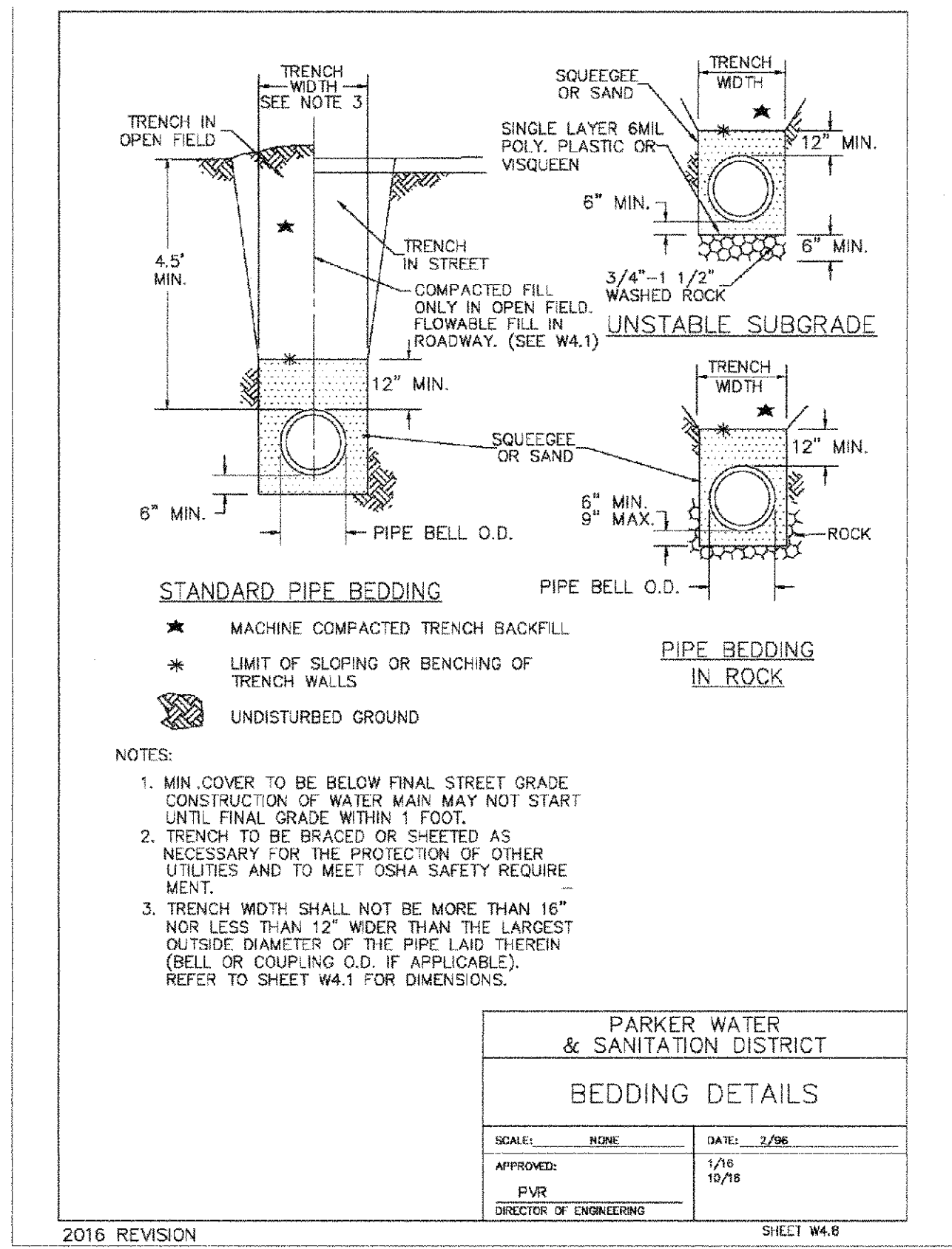
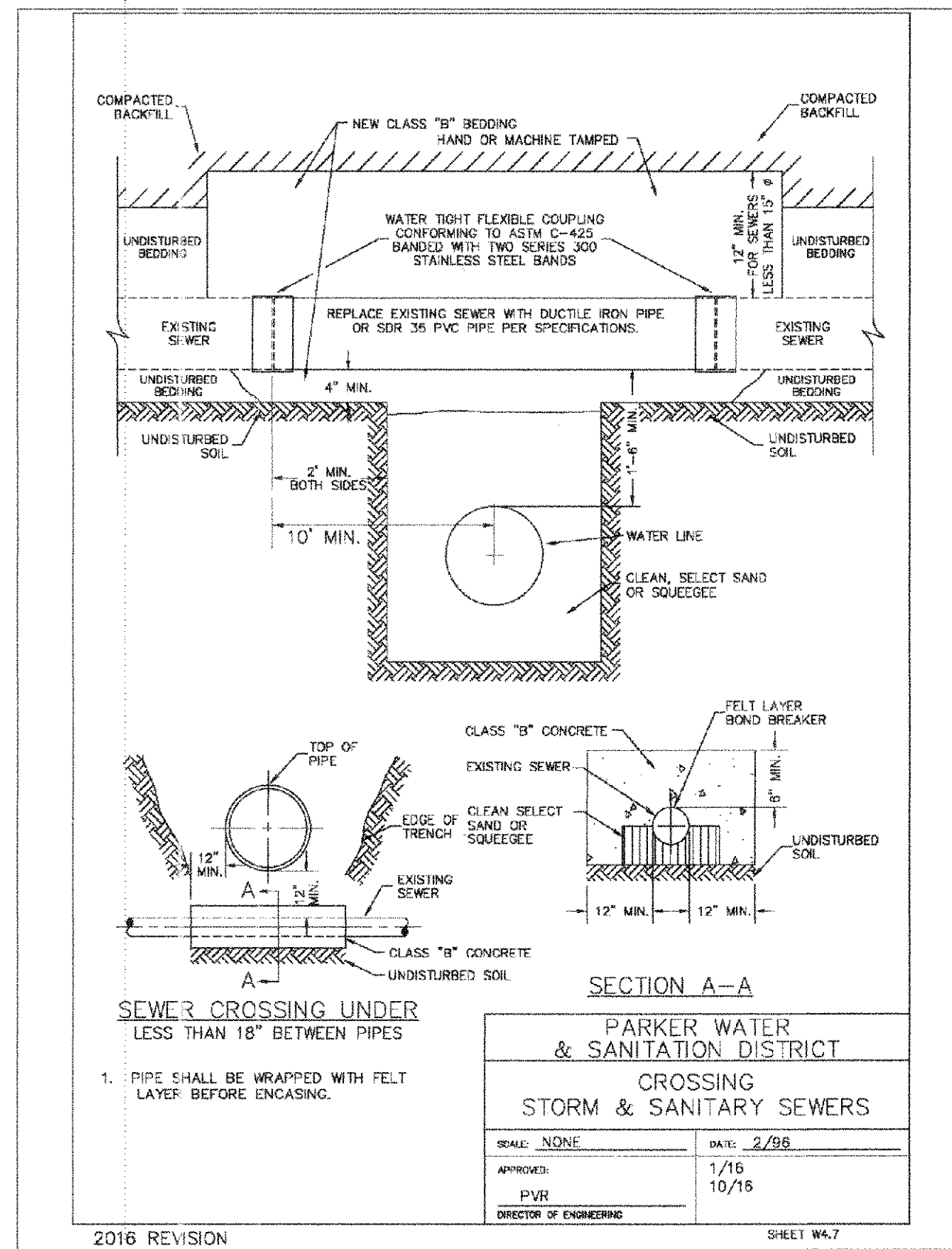
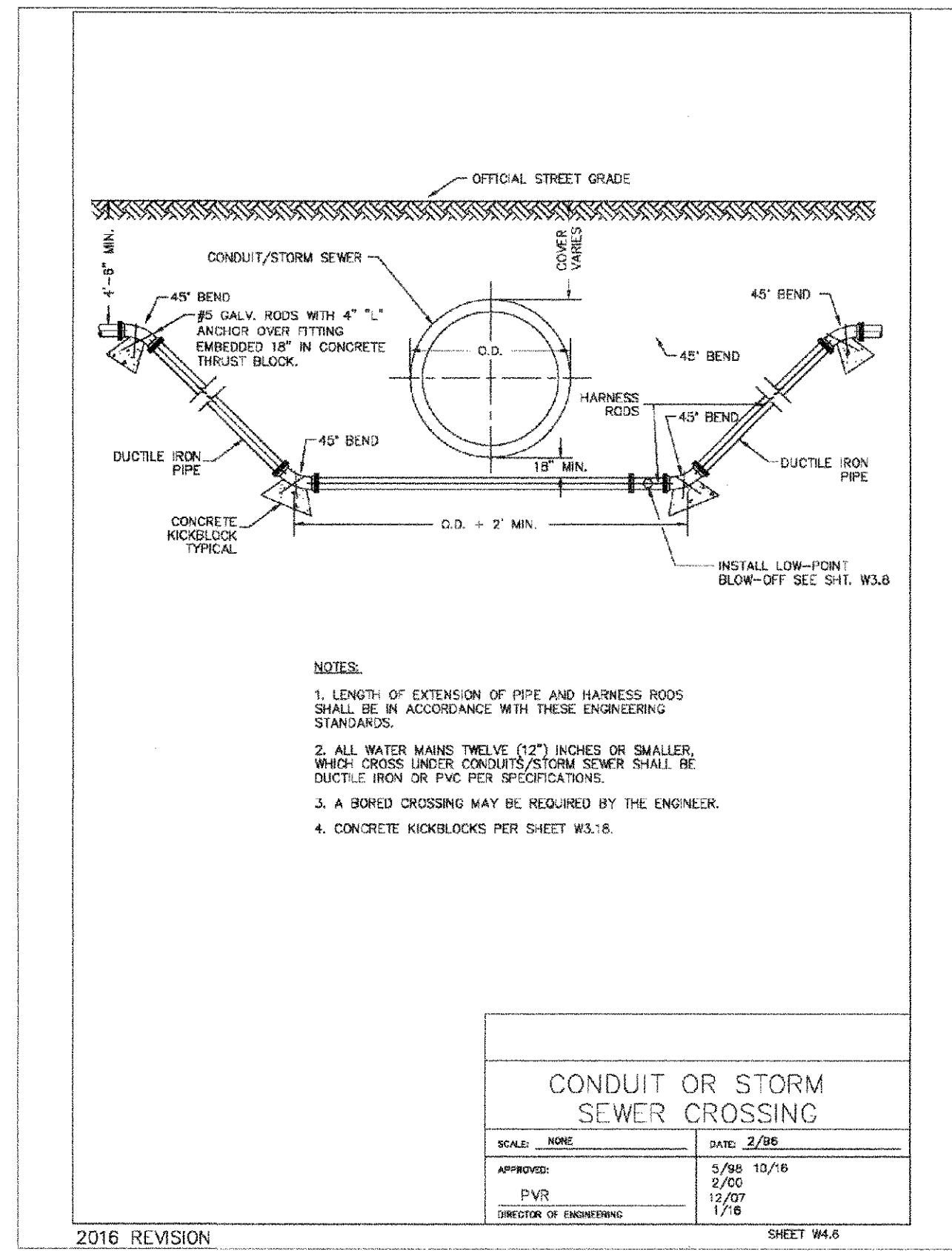
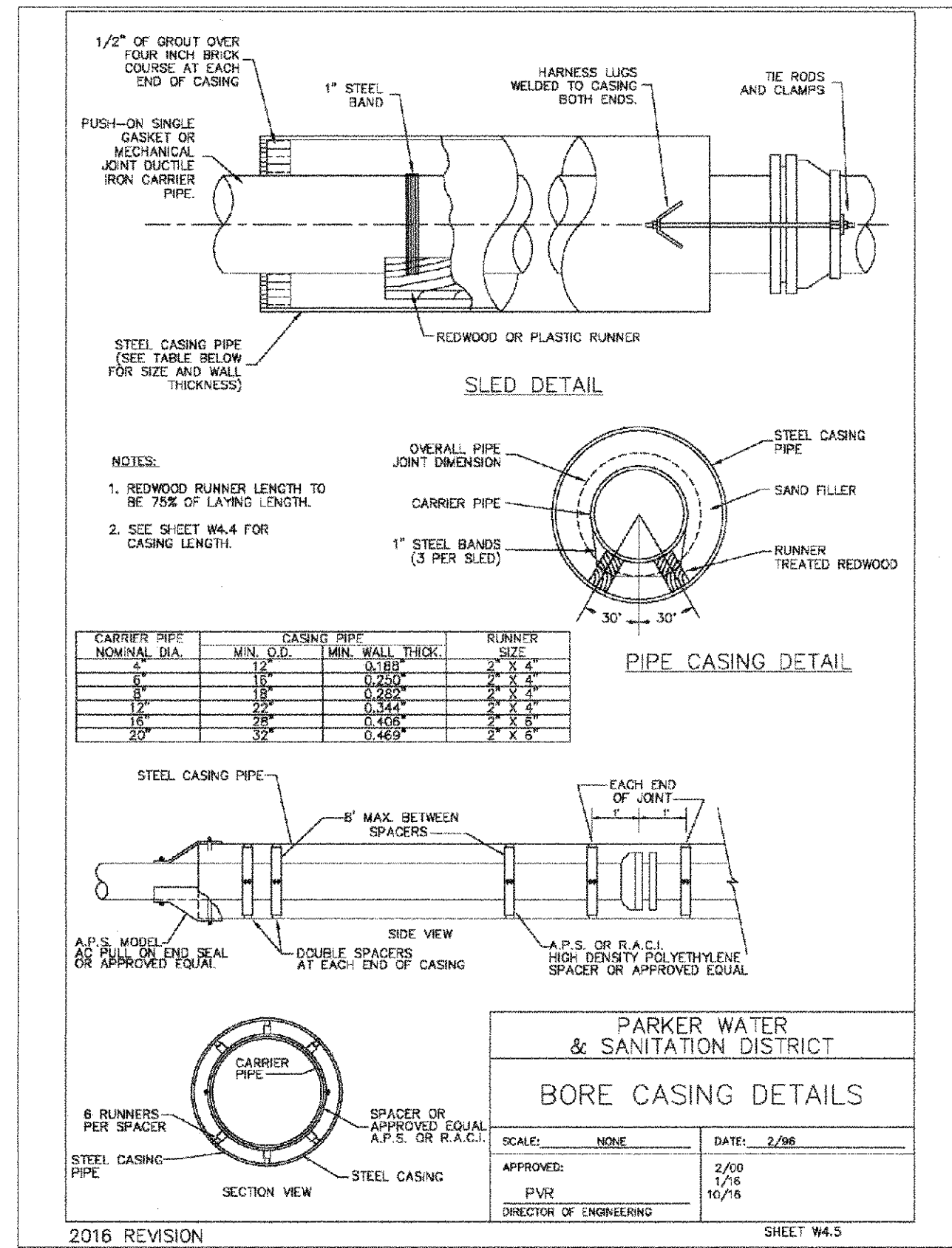


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APPROVED					
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DATE					
NO.					
REVISIONS					
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HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112					
<b>TRAILS AT CROWFOOT          FILING 5 CONSTRUCTION DRAWINGS          WATER DETAILS</b>					
SCALE:	AS SHOWN	FILE NO.:	8130283701		
DRAWN BY:	JW	DATE:	AUGUST 2017		
CHECKED BY:	JW				
SHEET NUMBER	18				

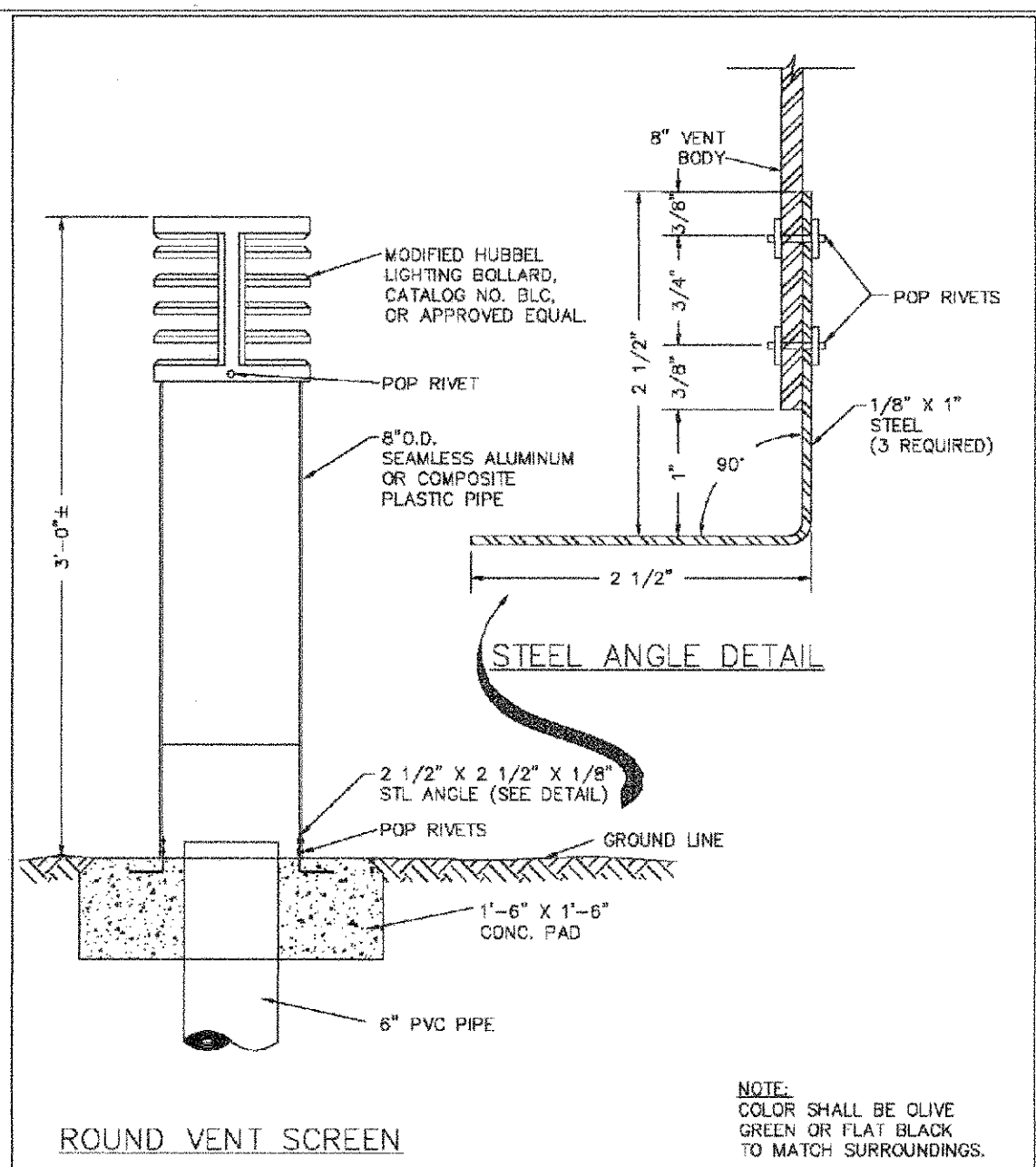


APPROVED  
AUG 14 2018  
PARKER WATER AND  
SANITATION DISTRICT

PROJECT SHESS BANCHCACH ENGINEERING SHEET SETS/CSDS/PARKER WATER AND SANITATION'S WATER DETAILS DWS, CDDVA, 3/6/2018 10:26 AM

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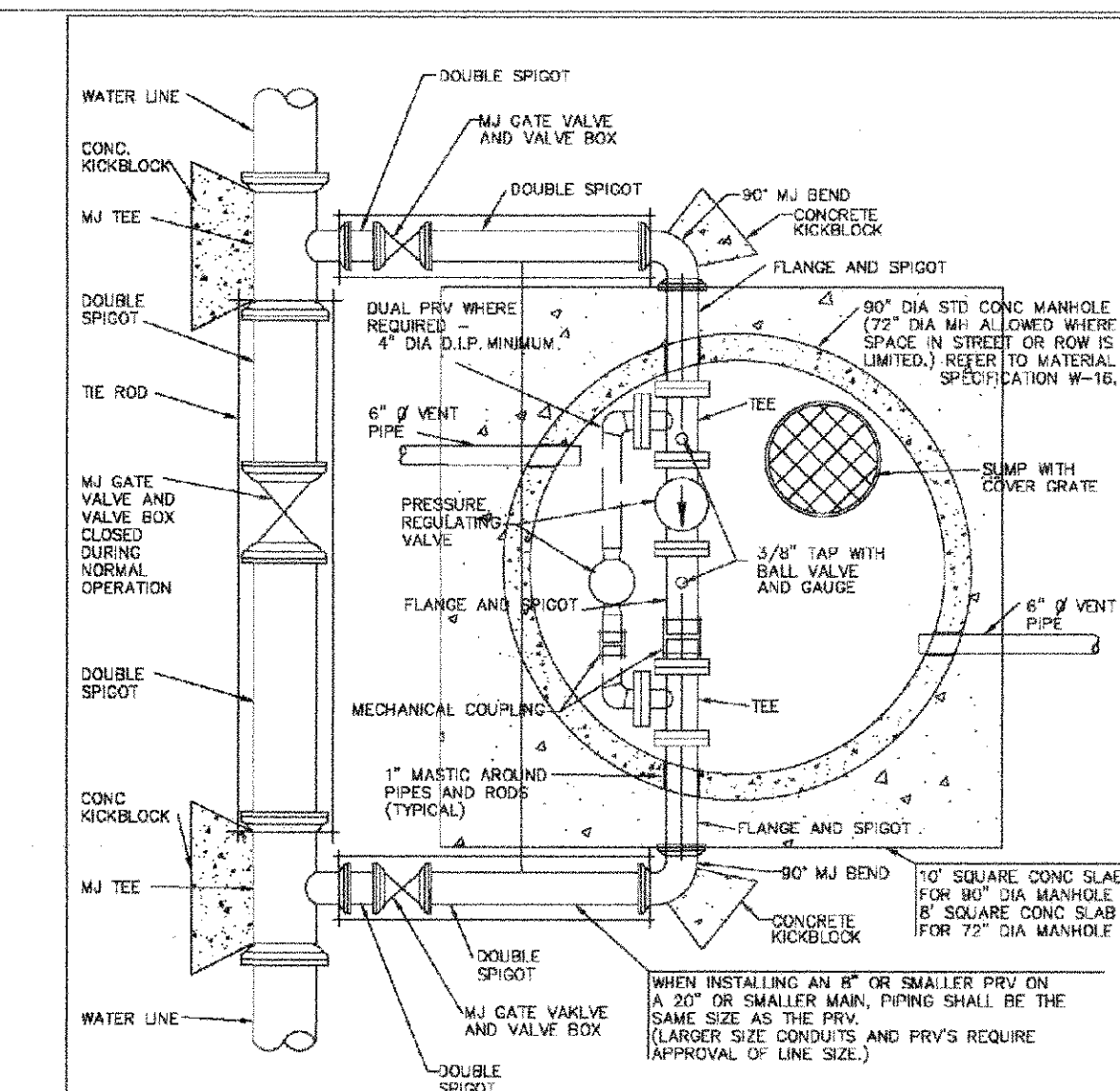
10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	Date	Appr.	Date
<b>CVL</b> CONSULTANTS				
<b>HR 935 LLC</b> 7353 South Alton Way CENTENNIAL, CO 80112				
<b>TRAILS AT CROWFOOT</b> FILING 5 CONSTRUCTION DRAWINGS WATER DETAILS				
SCALE: AS SHOWN FILE NO: 8130283701				
DRAWN BY: JF CHECKED BY: JJJ DATE: AUGUST 2017				
SHEET NUMBER <b>19</b>				



**PARKER WATER & SANITATION DISTRICT  
RESIDENTIAL ONLY  
VENT ASSEMBLY**

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

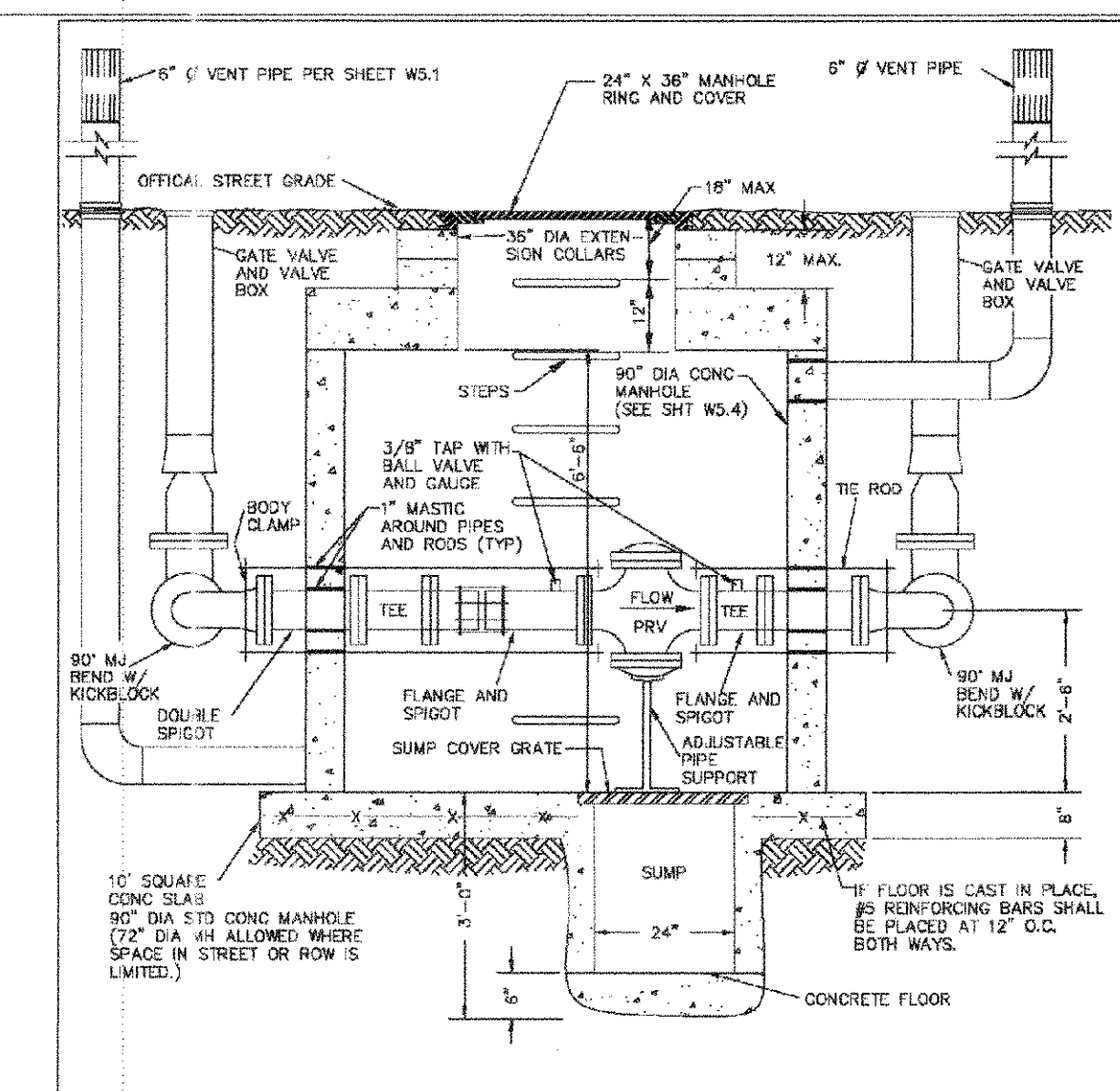
2016 REVISION SHEET WS.3



**PARKER WATER & SANITATION DISTRICT  
PRESSURE REGULATING VALVE  
MANHOLE INSTALLATION  
TYPICAL PLAN**

SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/03
DIRECTOR OF ENGINEERING	10/16

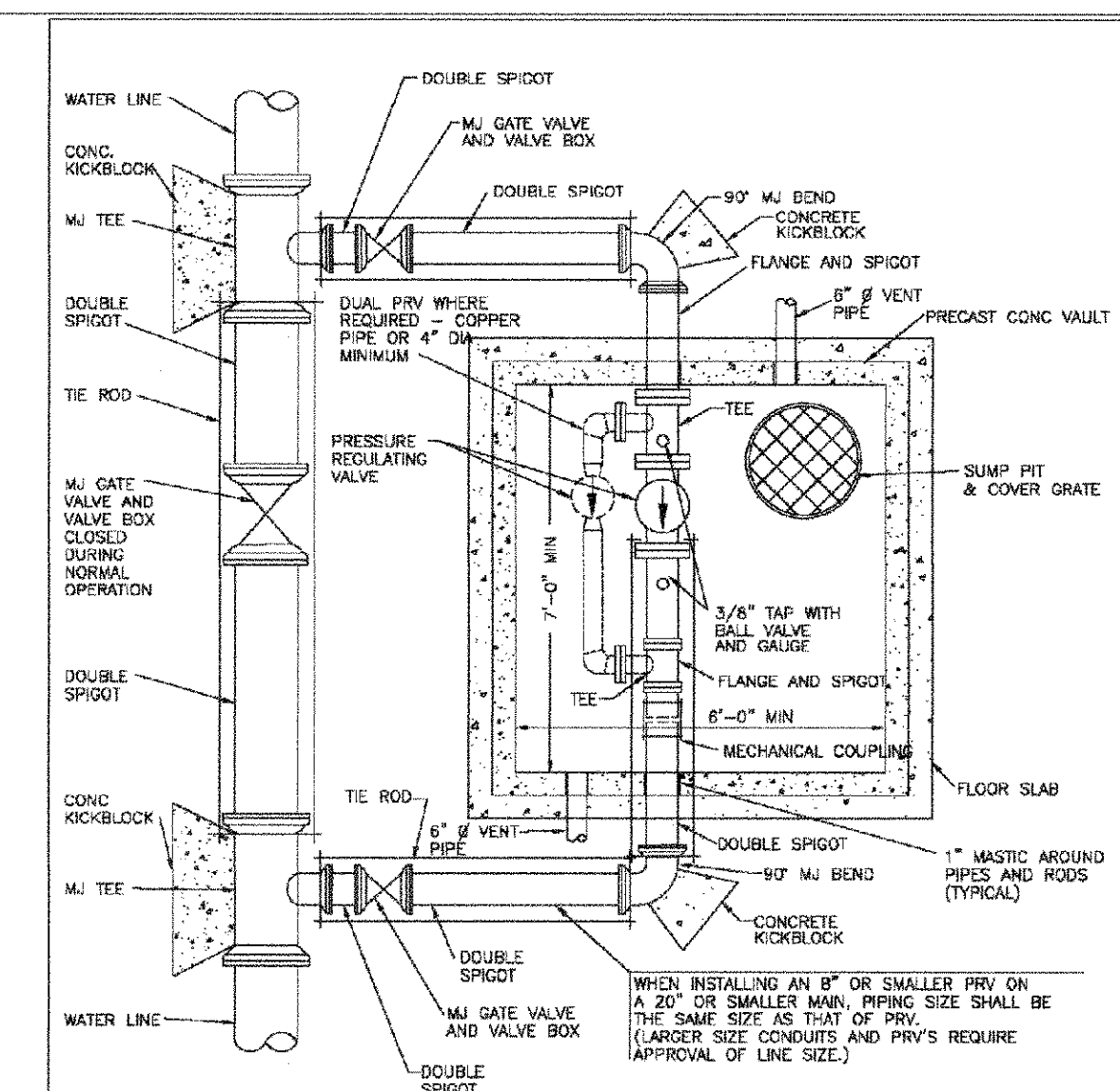
2016 REVISION SHEET WS.4



**PARKER WATER & SANITATION DISTRICT  
PRESSURE REGULATING VALVE  
MANHOLE INSTALLATION CROSS SECTION**

SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	10/16

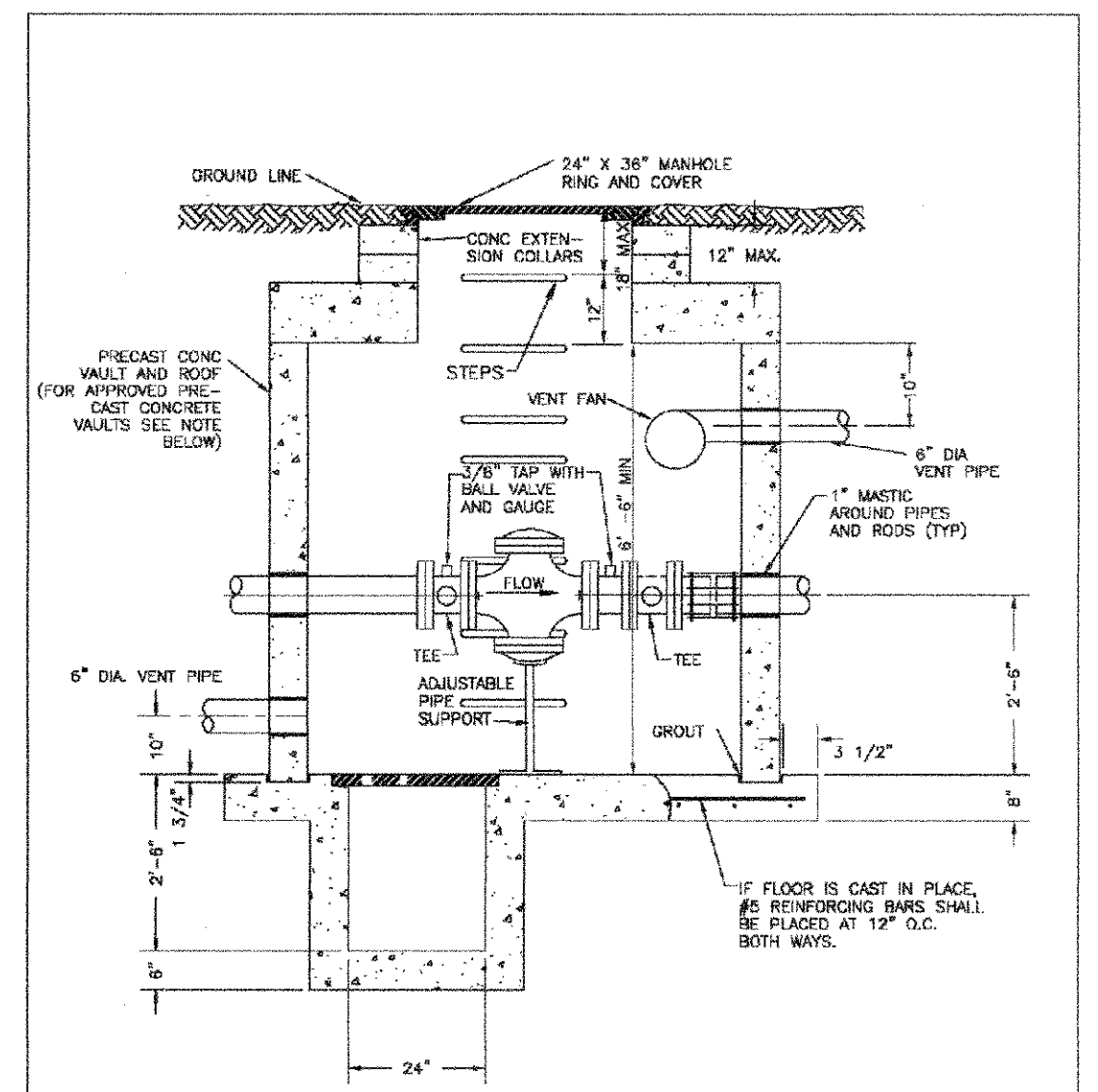
2016 REVISION SHEET WS.5



**PARKER WATER & SANITATION DISTRICT  
PRESSURE REGULATING VALVE  
RECTANGULAR VAULT  
TYPICAL PLAN**

SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/03
DIRECTOR OF ENGINEERING	10/16

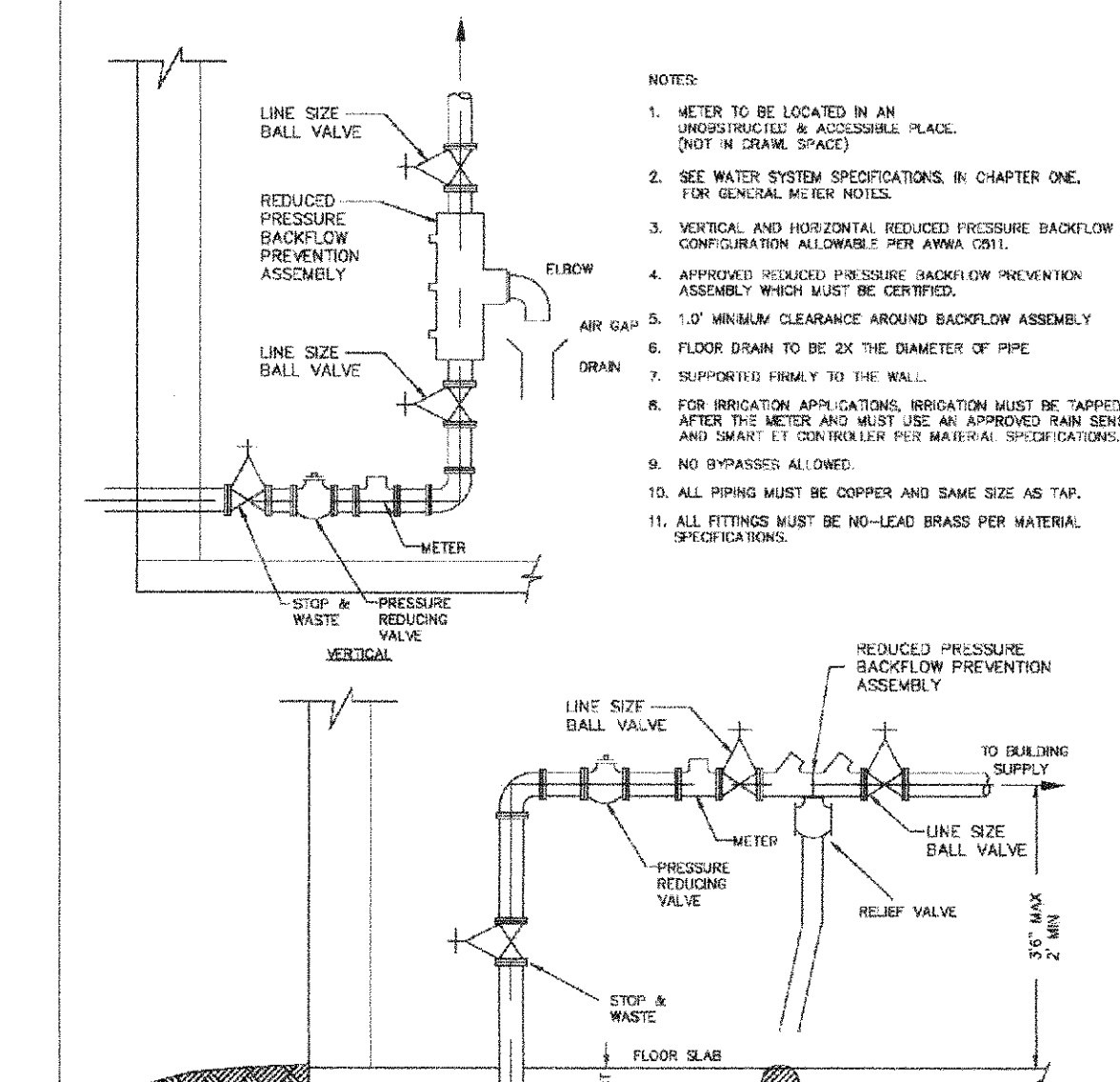
2016 REVISION SHEET WS.6



**PARKER WATER & SANITATION DISTRICT  
PRESSURE REGULATING VALVE  
RECTANGULAR VAULT  
CROSS SECTION**

SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	10/16

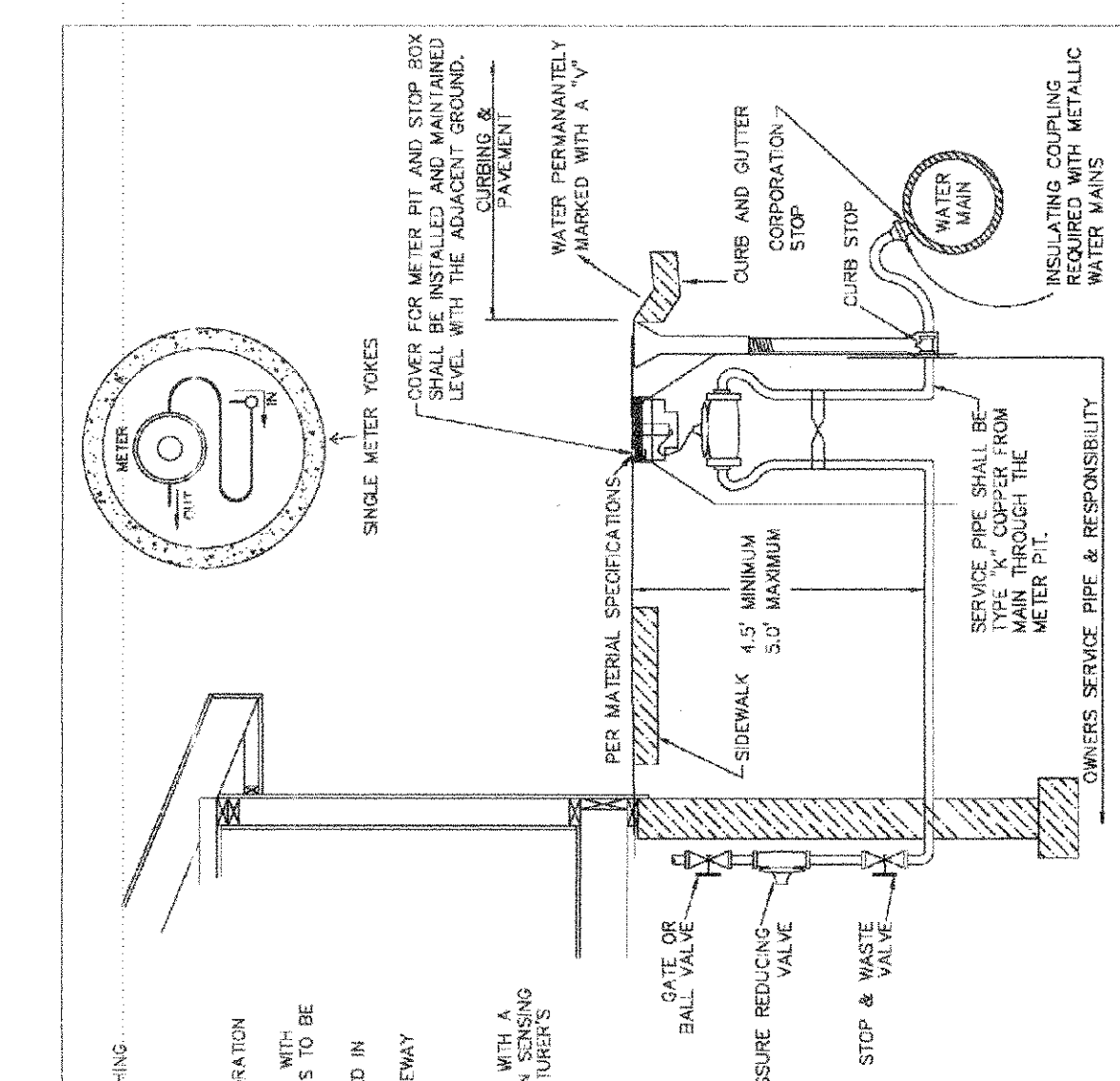
2016 REVISION SHEET WS.7



**PARKER WATER & SANITATION DISTRICT  
INSIDE COMMERCIAL METER INSTALLATION  
FOR 6\"/>

SCALE: NONE	DATE: 7/98
APPROVED: PVR	10/09
DIRECTOR OF ENGINEERING	10/16

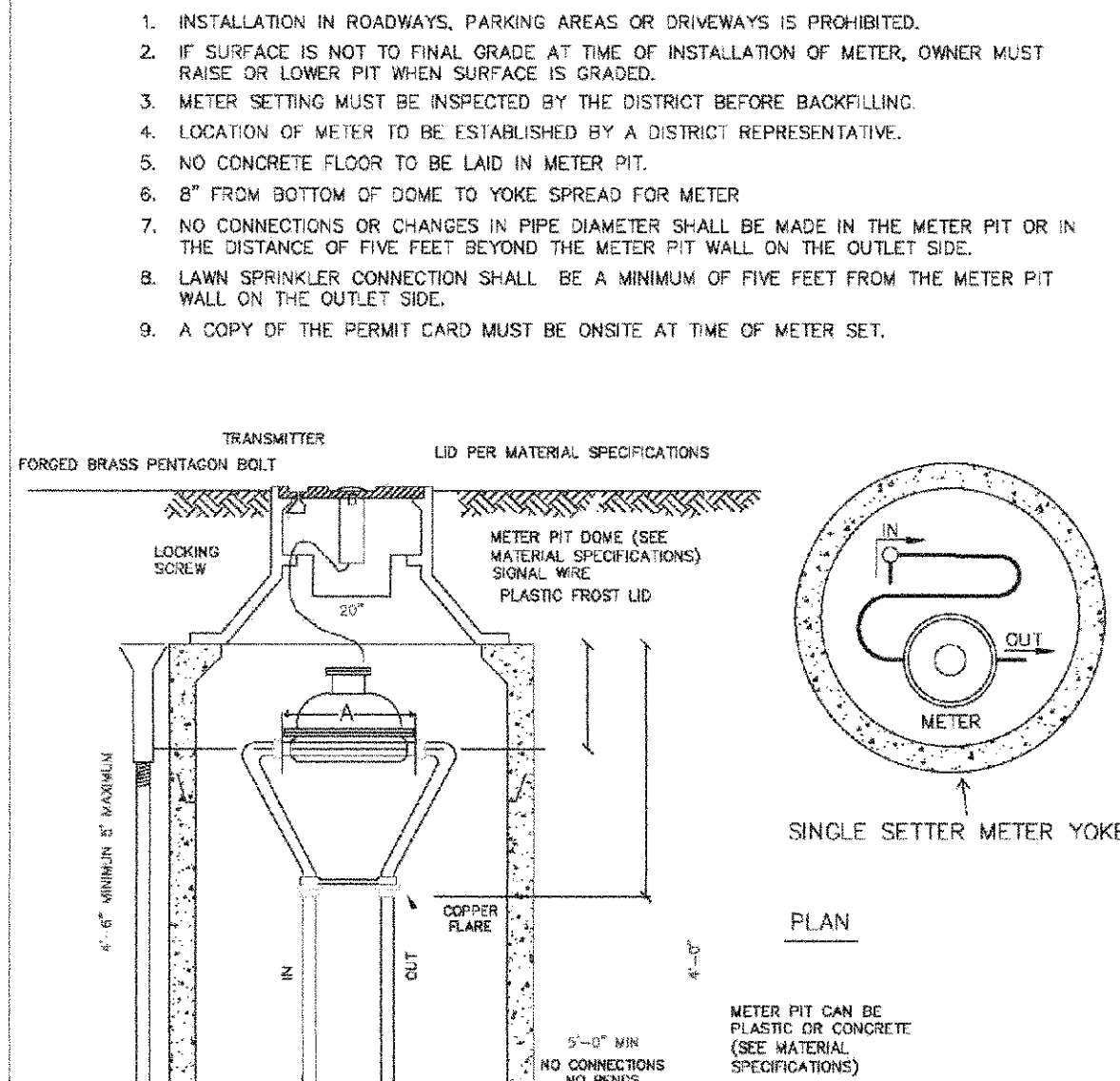
2016 REVISION SHEET WS.8



**PARKER WATER & SANITATION DISTRICT  
RESIDENTIAL SERVICE LINE, STOP BOX  
AND OUTSIDE METER INSTALLATION**

SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/03
DIRECTOR OF ENGINEERING	10/16

2016 REVISION SHEET WS.10



**RESIDENTIAL ALL OUTSIDE SETTINGS FOR  
3/4\"/>

SCALE: NONE	DATE: 2/98
APPROVED: PVR	10/09
DIRECTOR OF ENGINEERING	10/16

2016 REVISION SHEET WS.11

N:\PROJECT SHEETS\BANCHACA\ENGINEERING\SET\SCDS\BANKER WATER AND SANITATION\WATER DETAILS.DWG, CDDVA, 3652018 10:27 AM

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UTILITY CONSTRUCTION CONSULTANTS OF COLORADO

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

DATE		APPR.	
REVISIONS			
NO.			
<p>10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546</p> <p><b>CVL</b> CONSULTANTS</p> <p><b>HR 935 LLC</b> 7353 South Alton Way CENTENNIAL, CO 80112</p> <p><b>TRAILS AT CROWFOOT FLING 5 CONSTRUCTION DRAWINGS WATER DETAILS</b></p>			
DRAWN BY:	SCALE:	AS SHOWN	
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APPROVED  
AUG 14 2019  
PARKER WATER AND  
SANITATION DISTRICT

