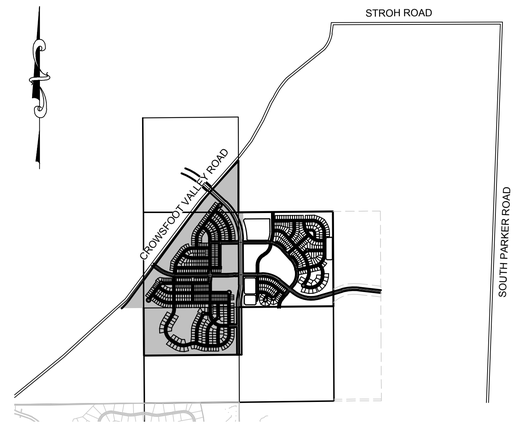
TRAILS AT CROWFOOT FILING 1

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

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36	SS N CROWFOOT VALLEY ROAD OUTFALL
37	SS N CROWFOOT VALLEY ROAD OUTFALL
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40	SS N CROWFOOT VALLEY ROAD OUTFALL
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42	SANITARY P&P SS EAST OUTFALL
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54	WATER P&P NORTH PINERY PARKWAY
55	WATER P&P NORTH PINERY PARKWAY
56	WATER P&P NORTH PINERY PARKWAY
57	WATER P&P ROSE MALLOW AVENUE
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59	WATER P&P ROSE MALLOW AVENUE
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61	ROSE MALLOW AVENUE LATERALS
62	WATER P&P SCARLET SAGE AVENUE
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79	WATER P&P WL EAST OUTFALL
80	WATER P&P WL EAST OUTFALL
81	WATER P&P WL EAST OUTFALL
82	WATER P&P WL EAST OUTFALL
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84	WATER DETAILS
85	WATER DETAILS
86	WATER DETAILS
87	WATER DETAILS
88	WATER DETAILS
89	WATER DETAILS



VICINITY MAP
SCALE: 1" = 2000'

MATERIAL LIST

DESCRIPTION	QUANTITY	UNIT
8" SEWER (PVC)	8,787	L.F.
12" SEWER (PVC)	7,009	L.F.
18" SEWER (PVC)	6,580	L.F.
4' DIA. MANHOLE	119	EA.
INTERMEDIATE PLATFORM	3	EA.
4" SEWER SERVICE	47	EA.
20" STEEL CASING	70	L.F.
CONNECTION TO EXISTING MAIN	1	EA.
6" WATERPIPE (DIP)	3,688	L.F.
8" WATERPIPE (PVC)	8,753	L.F.
12" WATERPIPE (PVC)	7,998	L.F.
16" WATERPIPE (DIP)	5,992	L.F.
6" GATE VALVE	29	EA.
8" GATE VALVE	70	EA.
12" GATE VALVE	18	EA.
16" BUTTERFLY VALVE	12	EA.
8" MISC. FITTINGS	69	EA.
12" MISC. FITTINGS	30	EA.
16" MISC. FITTINGS	15	EA.
AIR / VACUUM VALVE	6	EA.
8" CAP WITH BLOW OFF	30	EA.
2" BLOW OFF VALVE (8" LINE-LOW POINT)	3	EA.
6" BLOW OFF VALVE (16" LINE-LOW POINT)	1	EA.
FIRE HYDRANTS WITH 6" LEAD	29	EA.
IRRIGATION SERVICE W/ METER(2")	6	EA.
DOMESTIC WATER SERVICE W/ METER	47	EA.
20" STEEL CASING	70	L.F.
CONNECTION TO EXISTING MAIN	3	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.

_____ _____
(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) 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 SCHEDULINE 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: _____
(DISTRICT REPRESENTATIVE)

DATE SIGNED: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____
(DISTRICT ENGINEER)

DATE SIGNED: _____

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

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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.

N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 COVER.DWG, BRIANW, 12/7/2017 8:52 PM

No.	Revisions	Date	Init.	Appr.	Date

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

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
COVER SHEET

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 1

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 PWSD 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 PWSD MATERIALS SPECIFICATIONS.
4. THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
5. FIRE HYDRANTS SHALL CONFORM TO AWWA C–502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES 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 FOURTH 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 DETERMINED 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.

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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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No.	Revisions	Date	Init.	Appr.	Date

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

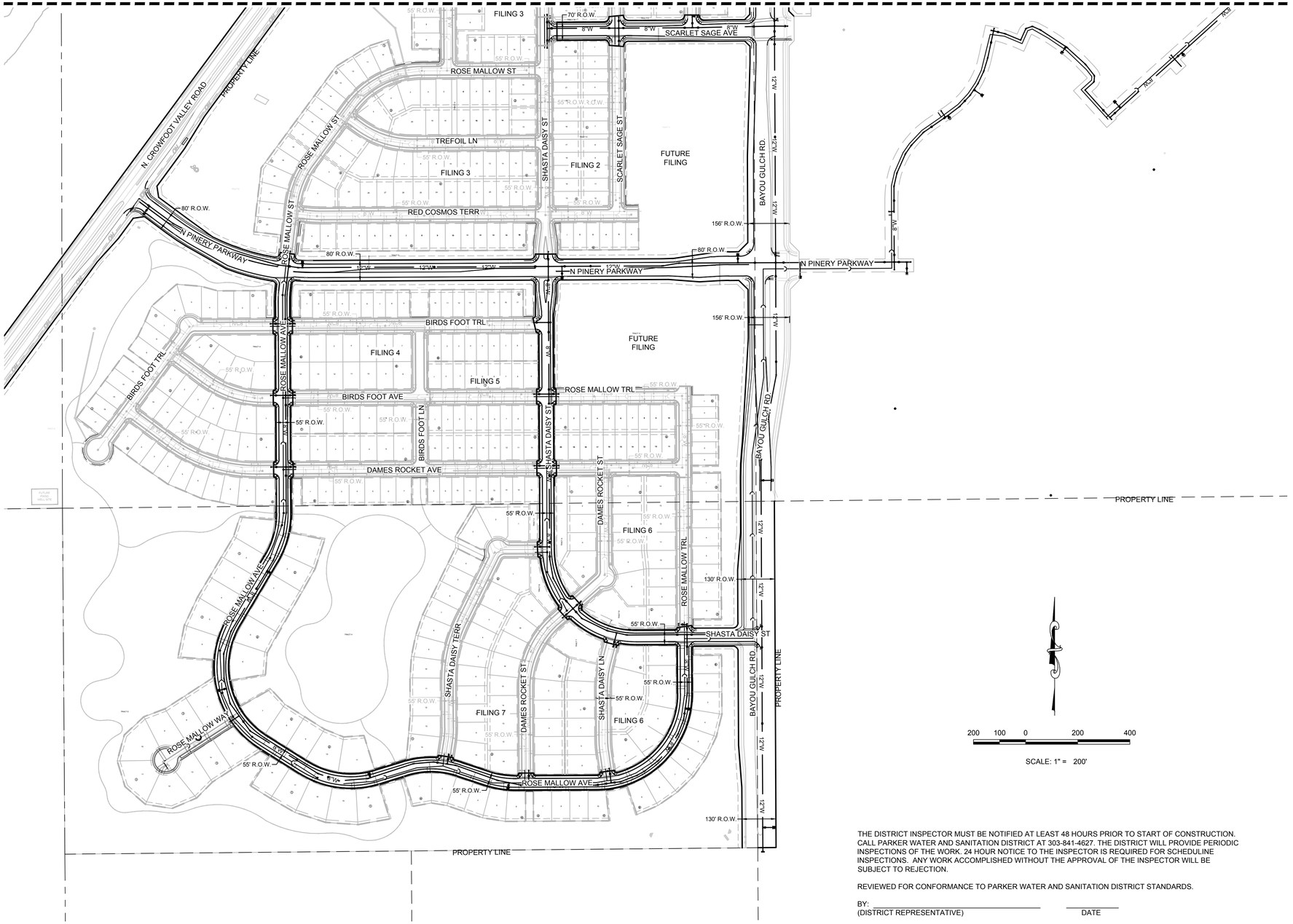
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

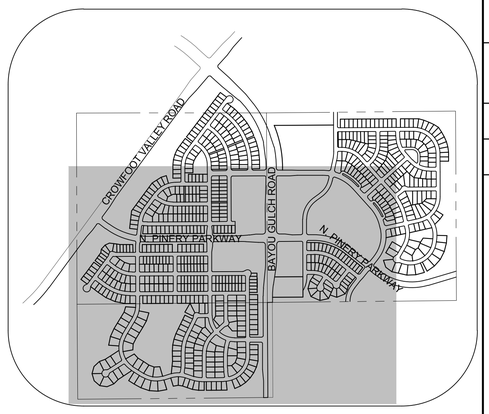
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
PARKER WATER AND SANITATION NOTES

SCALE:	AS SHOWN	FILE NO:	8130283701
DRAWN BY:	KJD		
CHECKED BY:	JJJ		
DATE:	APRIL 2017		
SHEET NUMBER	2		

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MATCHLINE - SHEET 4





KEYMAP
N.T.S.

LEGEND

- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
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EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
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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

200 100 0 200 400

SCALE: 1" = 200'

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 SCHEDULINE 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: _____ _____
(DISTRICT REPRESENTATIVE) DATE

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

FIRE DEPARTMENT APPROVAL
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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 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

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

No.	Revisions	Date	Init.	Appr.	Date

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

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
OVERALL UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 3

N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 OVERALL UTILITY PLAN.DWG, KACYW, 12/7/2017 8:56 PM

100 50 0 100 200

SCALE: 1" = 100'

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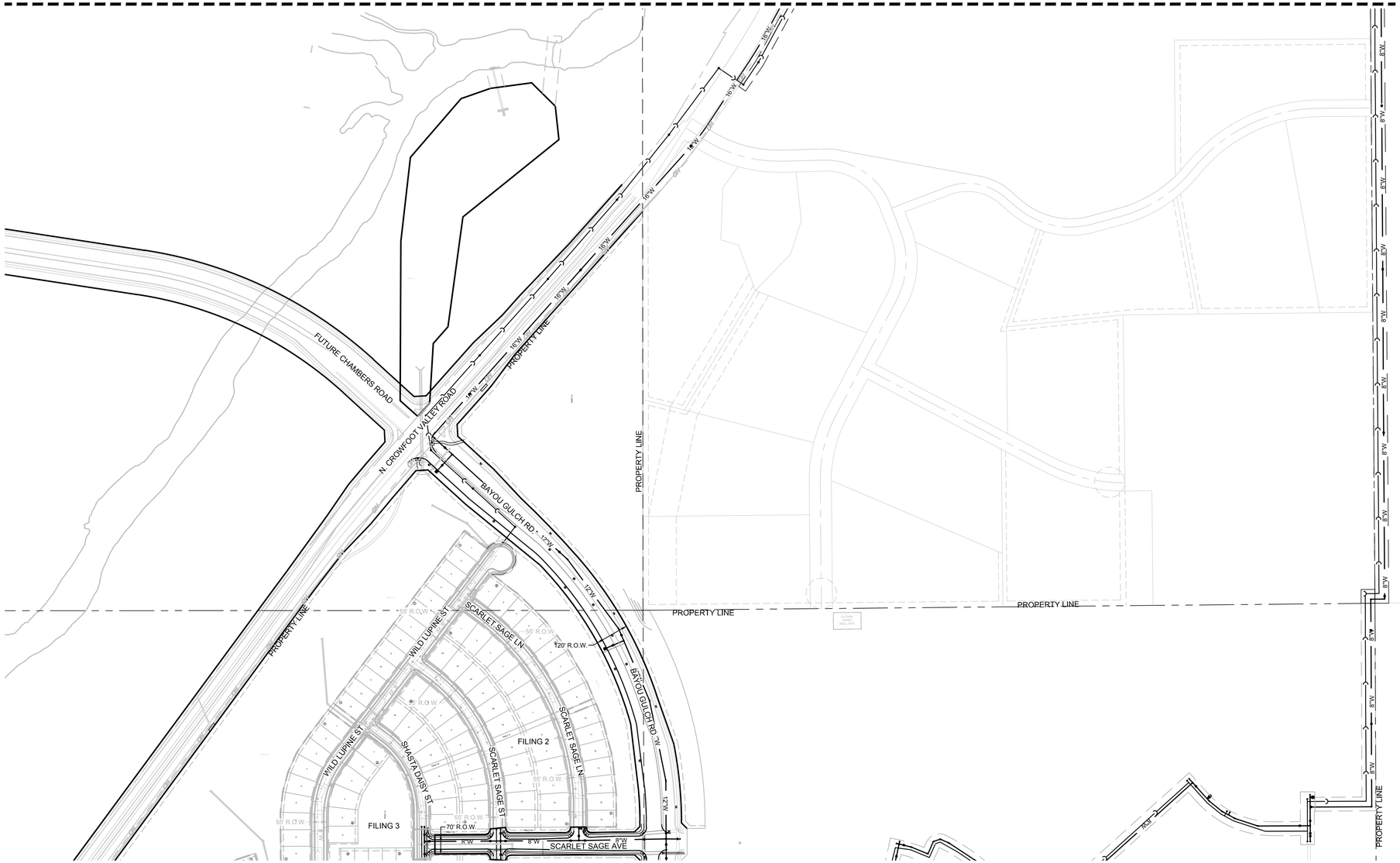
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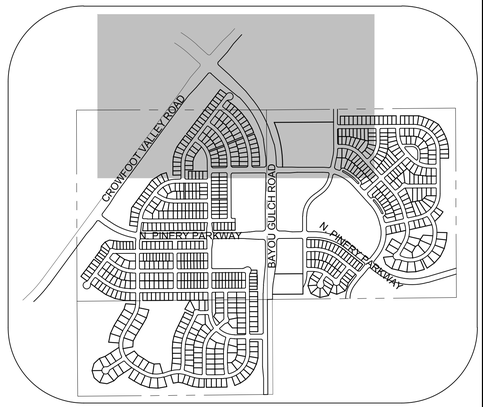
APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

MATCHLINE - SHEET 5



MATCHLINE - SHEET 3



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
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	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
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	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
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	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
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	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

10333 E. Dry Creek Rd.
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CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
OVERALL UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 4

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 OVERALL UTILITY PLAN.DWG, KACYW, 12/7/2017 8:56 PM



SCALE: 1" = 200'

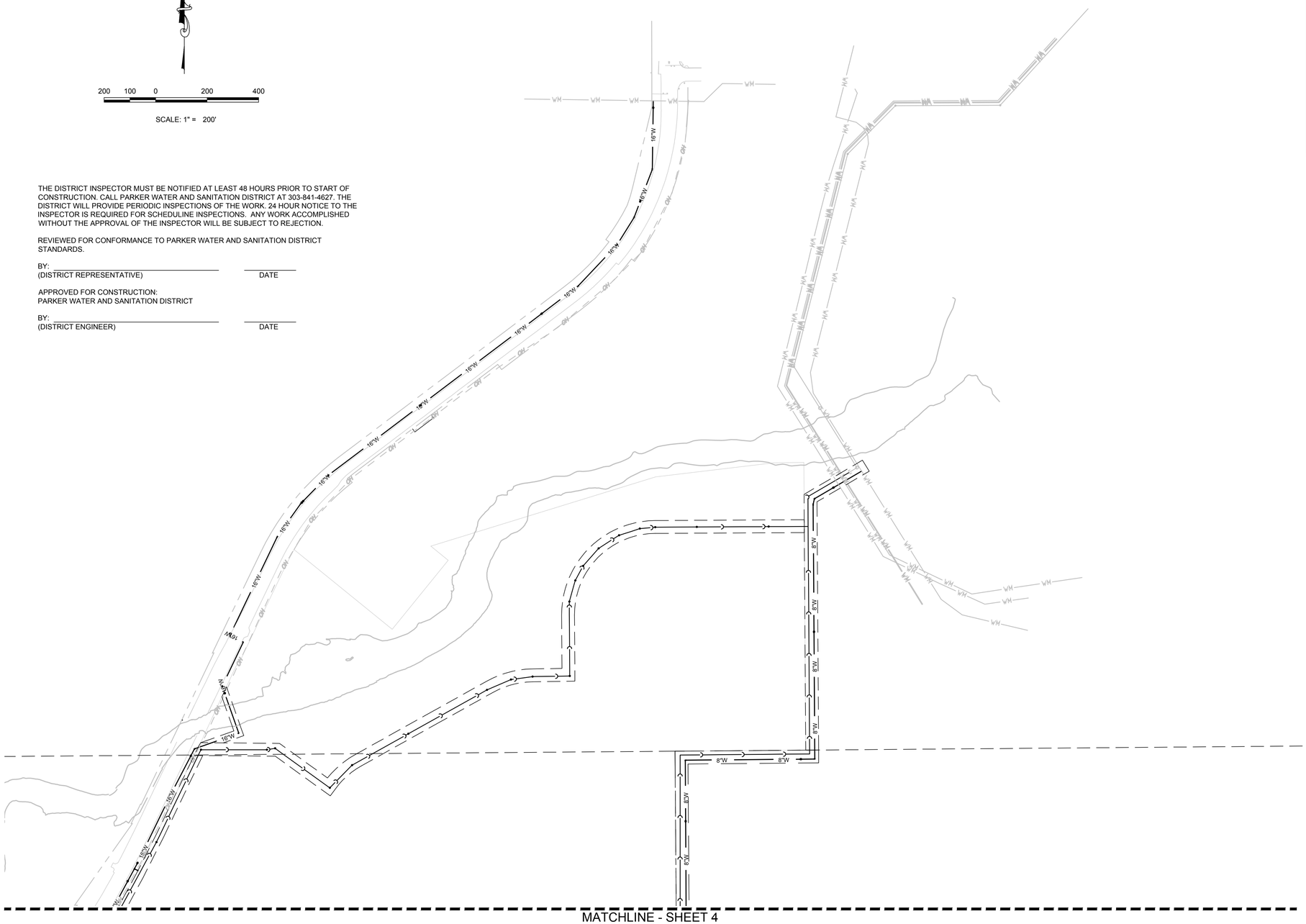
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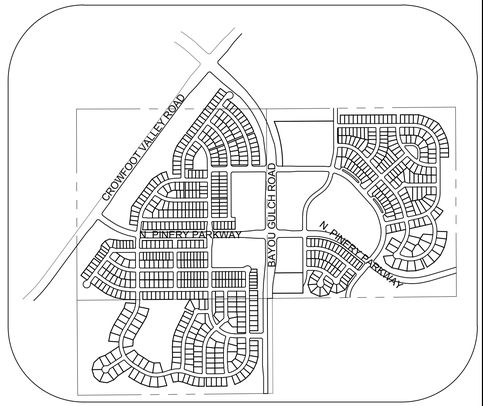
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BY: _____ _____
(DISTRICT REPRESENTATIVE) DATE

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE





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 (1.0%)
PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR (5615)
PROPOSED WL FITTING WITH THRUST BLOCK	EXISTING 1' CONTOUR (5616)
PROPOSED FLARED END SECTION	PROPOSED 5' CONTOUR (5620)
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PROPOSED AIR VALVE	PROPOSED STORM DRAIN
FUTURE PHASE VALVE	PROPOSED SEWER LINE WITH MANHOLE
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PROPOSED LIGHT POLE	PROPOSED WATER LINE (8"W)
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
EXISTING ELEVATION (10.00)	FILING BOUNDARY
PROPOSED DESIGN ELEVATION (10.00)	EXISTING FIBER OPTIC LINE (FO)
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER (OH)
PROPOSED STORM DRAIN MANHOLE (4 5 6)	EXISTING TELEPHONE LINE (TEL)

ABBREVIATIONS

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AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
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No.	Revisions	Date	Init.	Appr.	Date

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CVL CONSULTANTS

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7353 South Alton Way
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
OVERALL UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 5

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 OVERALL UTILITY PLAN.DWG, KACYW, 12/7/2017 8:56 PM

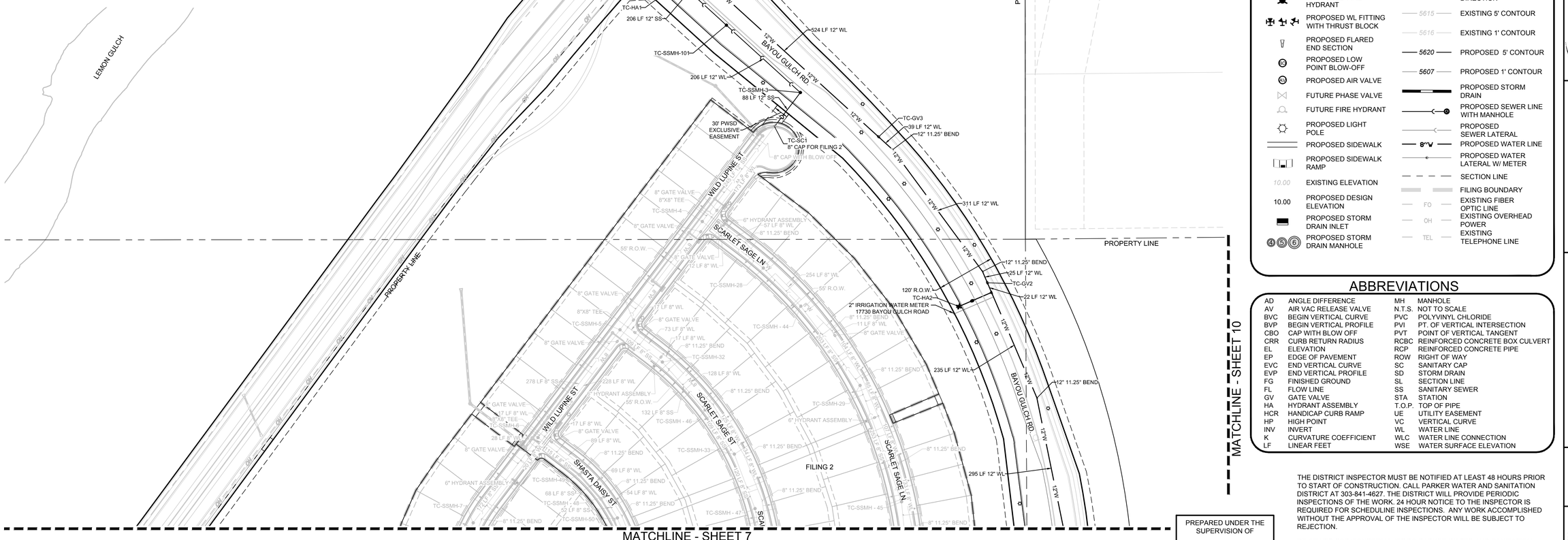
THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGN, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING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

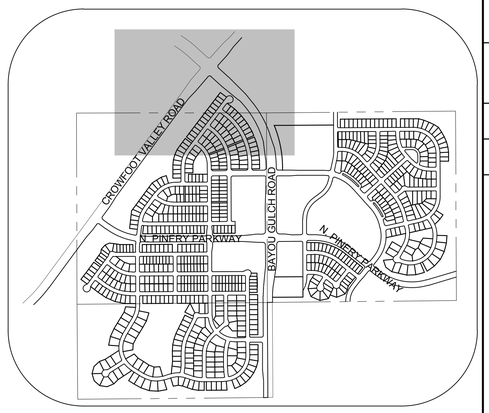
THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN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

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

100 50 0 100 200

SCALE: 1" = 100'





KEYMAP
N.T.S.

LEGEND

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BY: _____ DATE _____
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)

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FILING 1 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: AS SHOWN | FILE NO: 8130283701
DRAWN BY: JLR | CHECKED BY: JJJ | DATE: APRIL 2017
SHEET NUMBER 6

N:\PROJECTS\HSESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 AREA UTILITY PLAN DWG, KACY.W, 12/7/2017 8:59 PM

LEGEND

(2)	BLOCK NUMBER
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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
FO	PROPOSED LOW POINT BLOW-OFF
AV	PROPOSED AIR VALVE
	FUTURE PHASE VALVE
	FUTURE FIRE HYDRANT
	PROPOSED LIGHT POLE
	PROPOSED SIDEWALK
	PROPOSED SIDEWALK RAMP
10.00	EXISTING ELEVATION
10.00	PROPOSED DESIGN ELEVATION
	PROPOSED STORM DRAIN INLET
4 5 6	PROPOSED STORM DRAIN MANHOLE
	PROPOSED RANGE POINT
	CENTERLINE
	RIGHT-OF-WAY
	PROPERTY LINE
	EDGE OF PAVEMENT
	PROPOSED DIRECTION OF FLOW
1.0%	PROPOSED SLOPE & DIRECTION
5615	EXISTING 5' CONTOUR
5616	EXISTING 1' CONTOUR
5620	PROPOSED 5' CONTOUR
5607	PROPOSED 1' CONTOUR
	PROPOSED STORM DRAIN
	PROPOSED SEWER LINE WITH MANHOLE
	PROPOSED SEWER LATERAL
8"W	PROPOSED WATER LINE
	PROPOSED WATER LATERAL W/ METER
	SECTION LINE
	FILING BOUNDARY
FO	EXISTING FIBER OPTIC LINE
OH	EXISTING OVERHEAD POWER
TEL	EXISTING TELEPHONE LINE

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 SCHEDULINE 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: _____ _____
(DISTRICT REPRESENTATIVE) DATE

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

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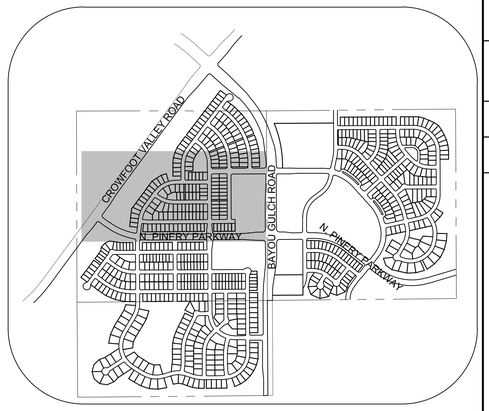
_____
TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

100 50 0 100 200

SCALE: 1" = 100'

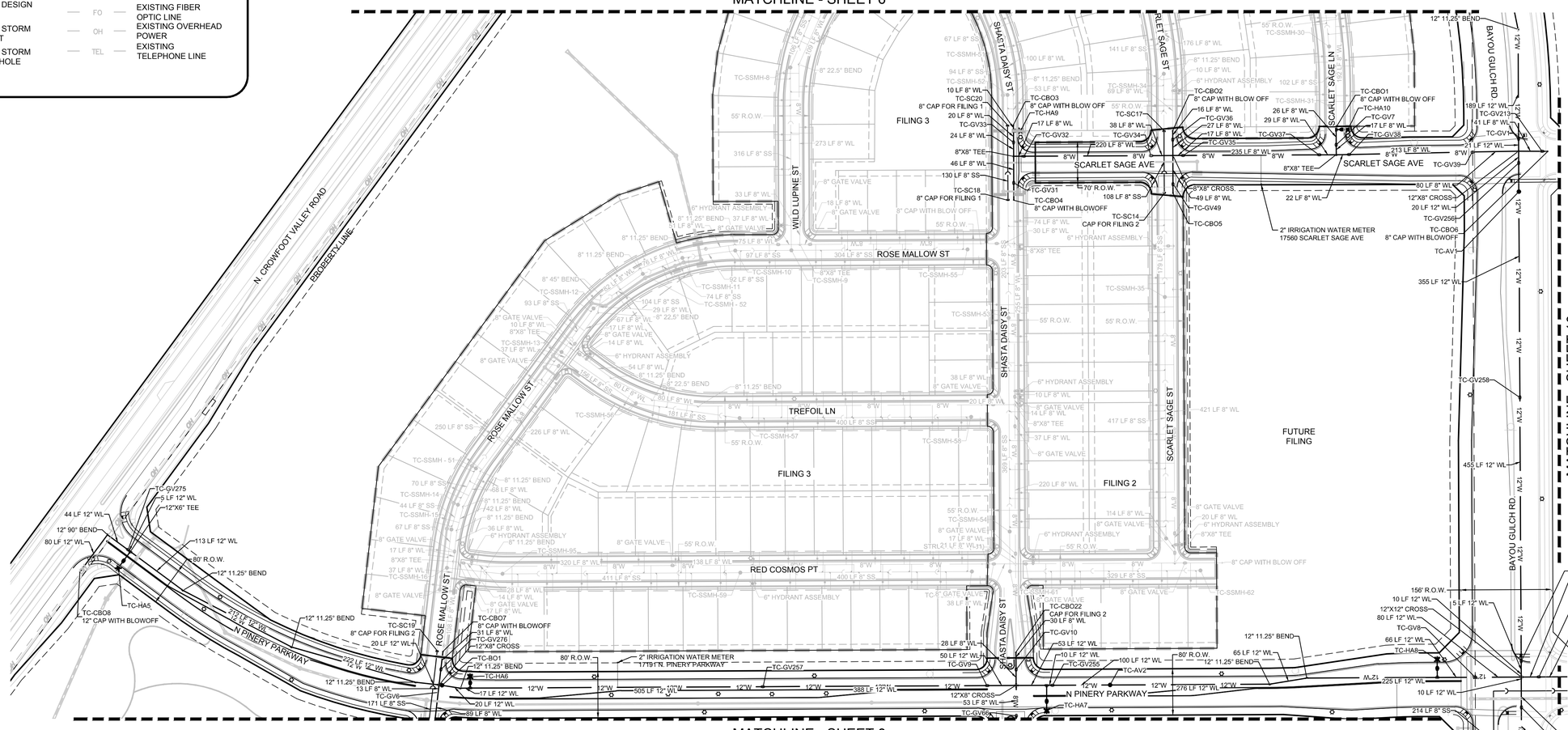
ABBREVIATIONS

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
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EVC	END VERTICAL CURVE	SC	SANITARY CAP
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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



KEYMAP
N.T.S.

MATCHLINE - SHEET 6



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

_____ _____
(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) DATE

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

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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

No.	Revisions	Date	Init.	Appr.	Date

10339 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 7

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 AREA UTILITY PLAN.DWG, KACYW, 12/7/2017 8:59 PM

LEGEND

(2) BLOCK NUMBER	PROPOSED RANGE POINT
(A) LOT TYPE	CENTERLINE
6 LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	1.0% PROPOSED SLOPE & DIRECTION
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10.00 EXISTING ELEVATION	FILING BOUNDARY
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REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ _____
(DISTRICT REPRESENTATIVE) DATE

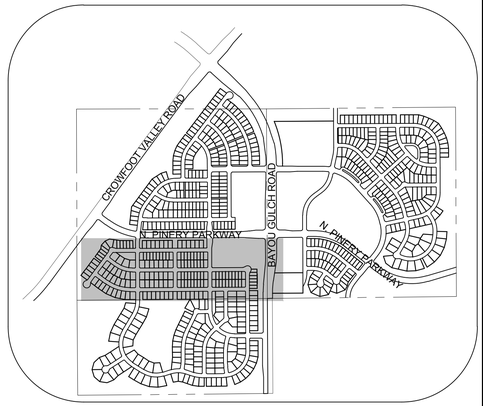
APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

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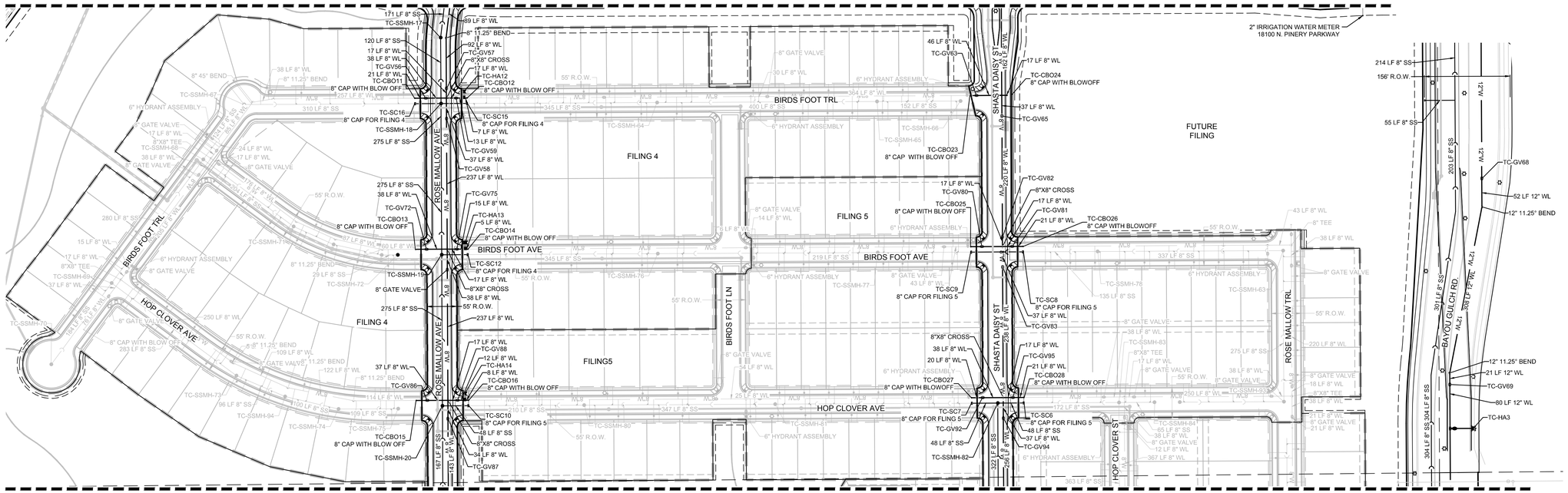
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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE



KEYMAP
N.T.S.

100 50 0 100 200
SCALE: 1" = 100'

MATCHLINE - SHEET 7



MATCHLINE - SHEET 9

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD7\SF1\PARKER WATER AND SANITATION\F1 AREA UTILITY PLAN.DWG, KACYW, 12/7/2017 8:00 PM

CALL 811
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UNCC UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
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E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE:	AS SHOWN		
DRAWN BY:	JLR	FILE NO:	8130283701
CHECKED BY:	JJJ		
DATE:	APRIL 2017		
SHEET NUMBER	8		

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

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

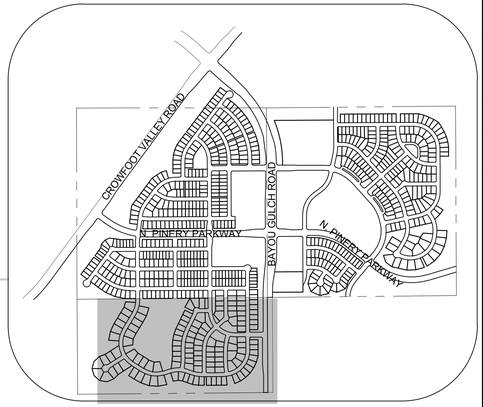
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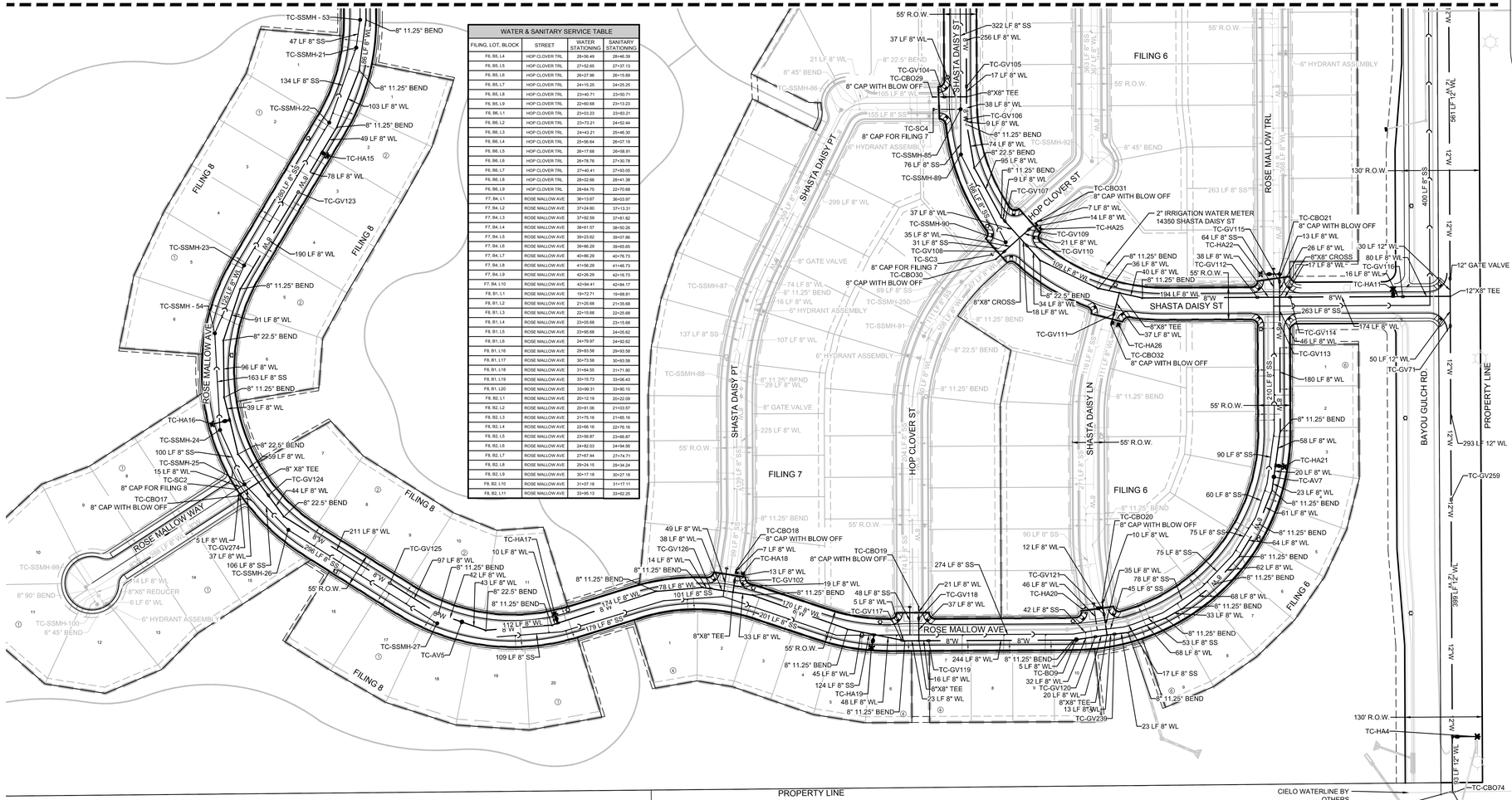
APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)



KEYMAP
N.T.S.

MATCHLINE - SHEET 8



WATER & SANITARY SERVICE TABLE			
FILING, LOT, BLOCK	STREET	WATER STATIONING	SANITARY STATIONING
F6, B5, L4	HOP CLOVER TRL	28+56.49	28+46.30
F6, B5, L5	HOP CLOVER TRL	27+52.65	27+37.13
F6, B5, L6	HOP CLOVER TRL	26+27.96	26+15.89
F6, B5, L7	HOP CLOVER TRL	24+15.25	24+25.25
F6, B5, L8	HOP CLOVER TRL	23+40.71	23+50.71
F6, B5, L9	HOP CLOVER TRL	22+60.68	23+13.23
F6, B6, L1	HOP CLOVER TRL	23+03.23	23+83.21
F6, B6, L2	HOP CLOVER TRL	23+73.21	24+52.44
F6, B6, L3	HOP CLOVER TRL	24+43.21	25+46.30
F6, B6, L4	HOP CLOVER TRL	25+56.64	26+07.19
F6, B6, L5	HOP CLOVER TRL	26+17.68	26+58.91
F6, B6, L6	HOP CLOVER TRL	26+78.76	27+30.78
F6, B6, L7	HOP CLOVER TRL	27+40.41	27+93.05
F6, B6, L8	HOP CLOVER TRL	28+02.66	28+41.38
F6, B6, L9	HOP CLOVER TRL	28+64.75	22+70.68
F7, B4, L1	ROSE MALLOW AVE	36+13.67	36+03.97
F7, B4, L2	ROSE MALLOW AVE	37+24.60	37+13.31
F7, B4, L3	ROSE MALLOW AVE	37+92.59	37+81.82
F7, B4, L4	ROSE MALLOW AVE	38+61.57	38+50.26
F7, B4, L5	ROSE MALLOW AVE	39+23.62	39+07.89
F7, B4, L6	ROSE MALLOW AVE	39+86.20	39+65.65
F7, B4, L7	ROSE MALLOW AVE	40+86.20	40+76.73
F7, B4, L8	ROSE MALLOW AVE	41+56.29	41+46.73
F7, B4, L9	ROSE MALLOW AVE	42+26.29	42+16.73
F7, B4, L10	ROSE MALLOW AVE	42+94.41	42+84.11
F8, B1, L1	ROSE MALLOW AVE	19+72.71	19+68.81
F8, B1, L2	ROSE MALLOW AVE	21+25.68	21+35.68
F8, B1, L3	ROSE MALLOW AVE	22+15.68	22+25.68
F8, B1, L4	ROSE MALLOW AVE	23+05.68	23+15.68
F8, B1, L5	ROSE MALLOW AVE	23+95.68	24+05.62
F8, B1, L6	ROSE MALLOW AVE	24+79.97	24+92.62
F8, B1, L16	ROSE MALLOW AVE	29+83.58	29+93.58
F8, B1, L17	ROSE MALLOW AVE	30+73.58	30+83.58
F8, B1, L18	ROSE MALLOW AVE	31+64.55	31+71.90
F8, B1, L19	ROSE MALLOW AVE	33+15.73	33+06.43
F8, B1, L20	ROSE MALLOW AVE	33+99.31	33+90.10
F8, B2, L1	ROSE MALLOW AVE	20+12.19	20+22.09
F8, B2, L2	ROSE MALLOW AVE	20+91.06	21+03.57
F8, B2, L3	ROSE MALLOW AVE	21+75.16	21+85.16
F8, B2, L4	ROSE MALLOW AVE	22+66.16	22+76.16
F8, B2, L5	ROSE MALLOW AVE	23+56.87	23+66.87
F8, B2, L6	ROSE MALLOW AVE	24+82.03	24+94.56
F8, B2, L7	ROSE MALLOW AVE	27+67.44	27+74.71
F8, B2, L8	ROSE MALLOW AVE	29+24.15	29+34.24
F8, B2, L9	ROSE MALLOW AVE	30+17.16	30+27.18
F8, B2, L10	ROSE MALLOW AVE	31+07.16	31+17.11
F8, B2, L11	ROSE MALLOW AVE	33+06.13	33+62.26

LEGEND

2	BLOCK NUMBER
A	LOT TYPE
6	LOT NUMBER
	PROPOSED BUTTERFLY VALVE
	PROPOSED CAP WITH END OF LINE BLOWOFF
	PROPOSED REDUCER
	PROPOSED VALVE
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	PROPOSED WL FITTING WITH THRUST BLOCK
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100 50 0 100 200

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

CALL 811
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1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

No.	Revisions	Date	Init.	Appr.	Date

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Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 9

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 AREA UTILITY PLAN.DWG, KACYW, 12/7/2017 9:00 PM

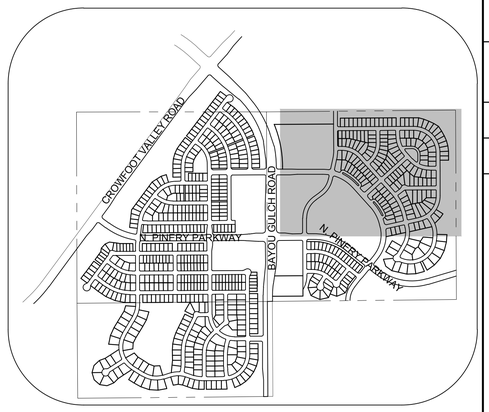
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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

100 50 0 100 200

SCALE: 1" = 100'



KEYMAP
N.T.S.

LEGEND

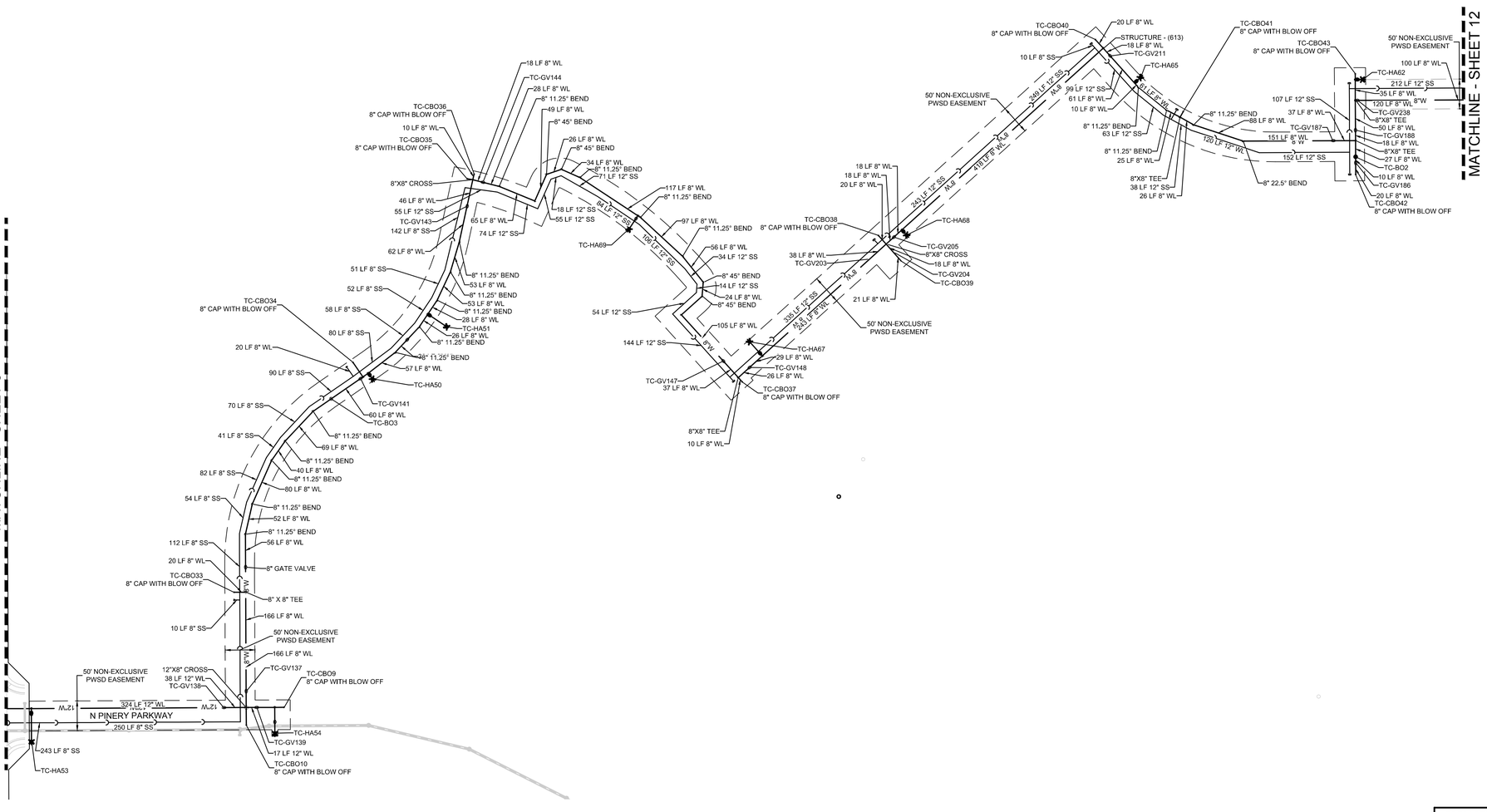
(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
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EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
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GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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

MATCHLINE - SHEET 8

MATCHLINE - SHEET 12



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

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) DATE

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

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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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REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ _____
(DISTRICT REPRESENTATIVE) DATE

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

No.	Revisions	Date	Init.	Appr.	Date

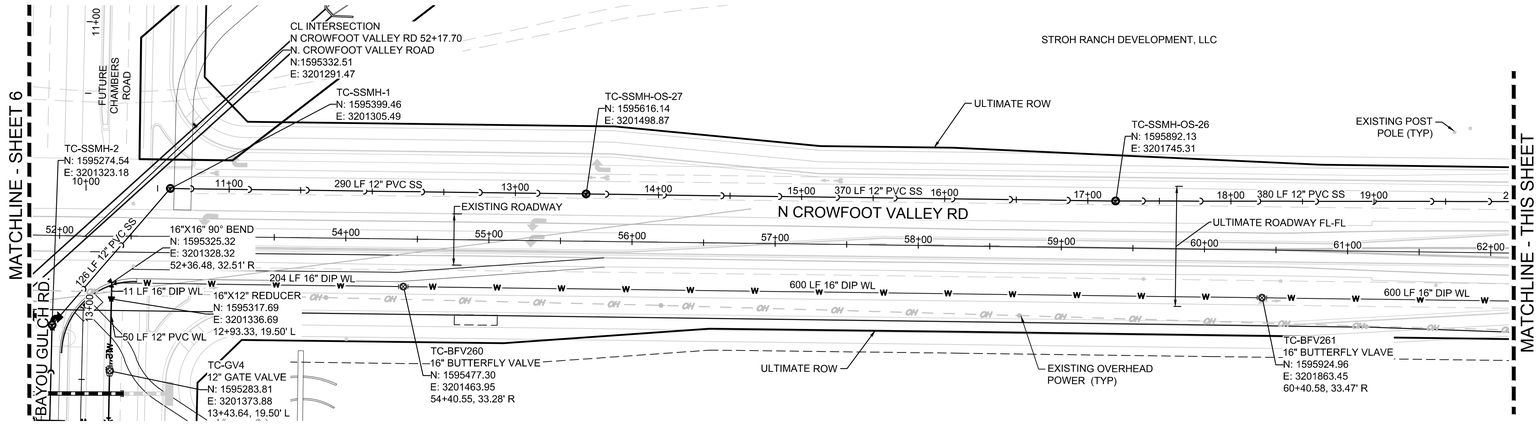
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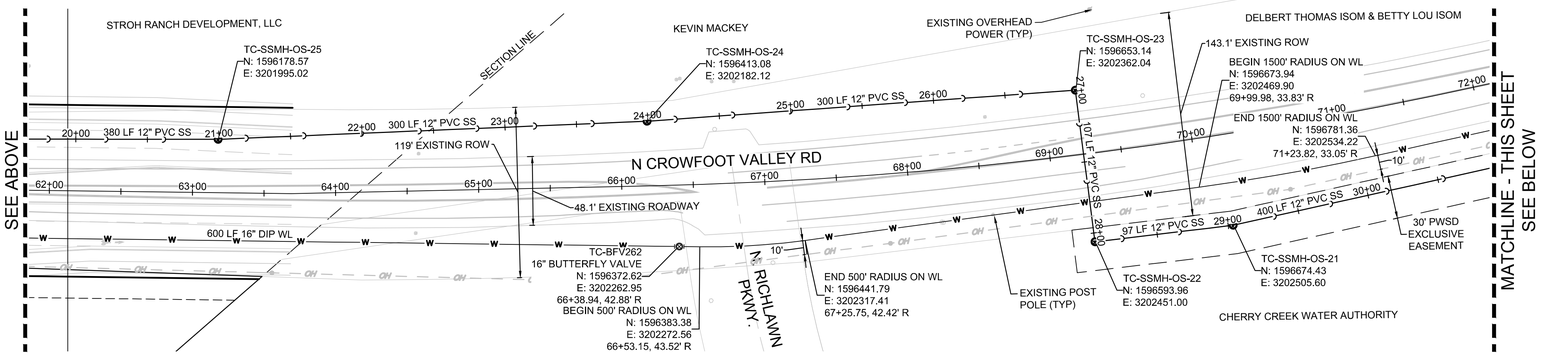
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 10

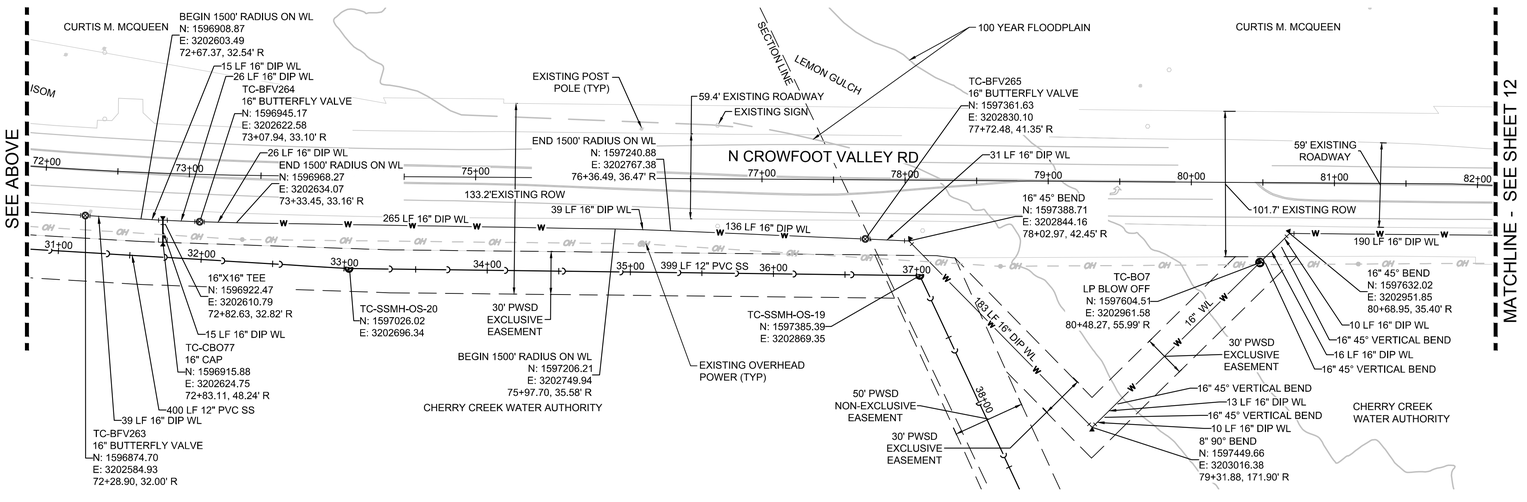
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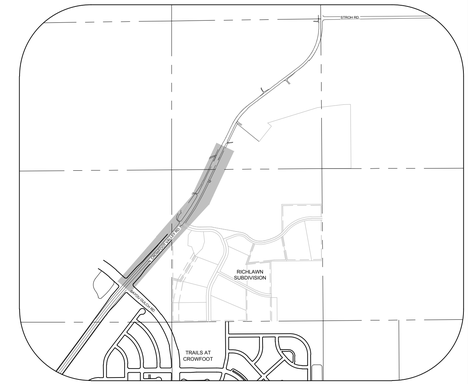
PLAN: N. CROWFOOT VALLEY RD. - OFFSITE STA: 52+00.00 TO 62+00.00
HORIZONTAL SCALE: 1" = 50'



PLAN: N. CROWFOOT VALLEY RD. - OFFSITE STA: 62+00.00 TO 72+00.00
HORIZONTAL SCALE: 1" = 50'



PLAN: N. CROWFOOT VALLEY RD. - OFFSITE STA: 72+00.00 TO 82+00.00
HORIZONTAL SCALE: 1" = 50'



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
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PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR
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PROPOSED AIR VALVE	PROPOSED STORM DRAIN
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FUTURE FIRE HYDRANT	PROPOSED SEWER LATERAL
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EXISTING ELEVATION	FILING BOUNDARY
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BY: _____ _____
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PREPARED UNDER THE SUPERVISION OF

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N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CO\SS\F1\PARKER WATER AND SANITATION\F1 OFFSITE AREA UTILITY CROWFOOT.DWG, BRIANW, 12/7/2017 9:02 PM

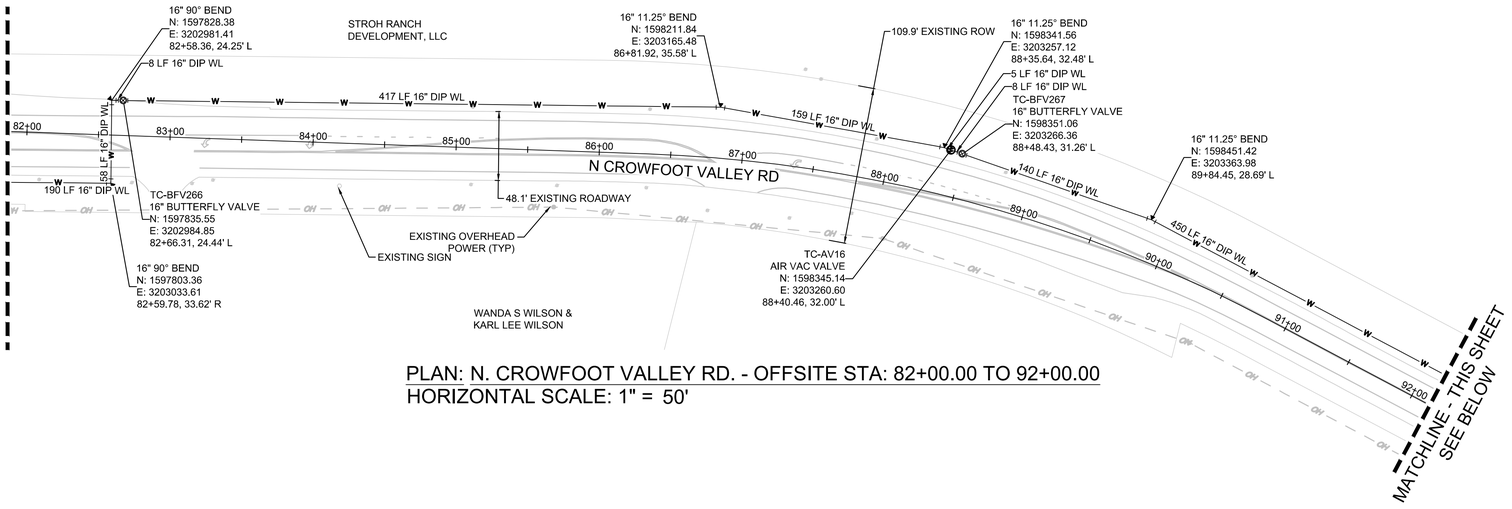
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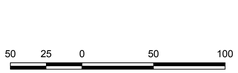
TRAILS AT CROWFOOT
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OFFSITE UTILITY AREA - CROWFOOT

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
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SHEET NUMBER 11

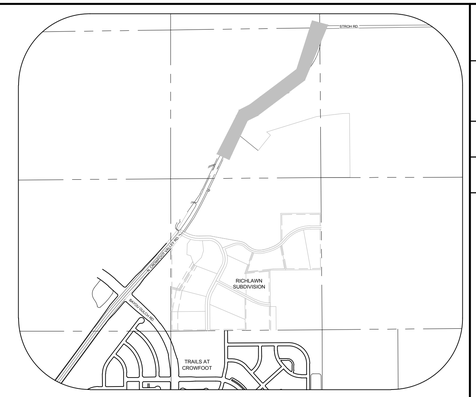


PLAN: N. CROWFOOT VALLEY RD. - OFFSITE STA: 82+00.00 TO 92+00.00
HORIZONTAL SCALE: 1" = 50'

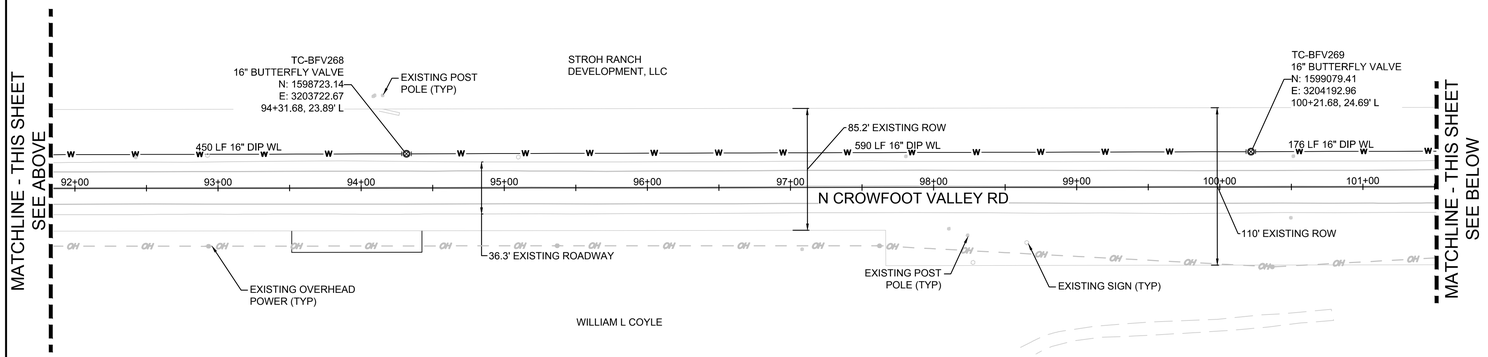




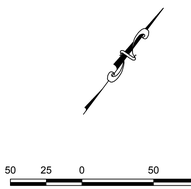
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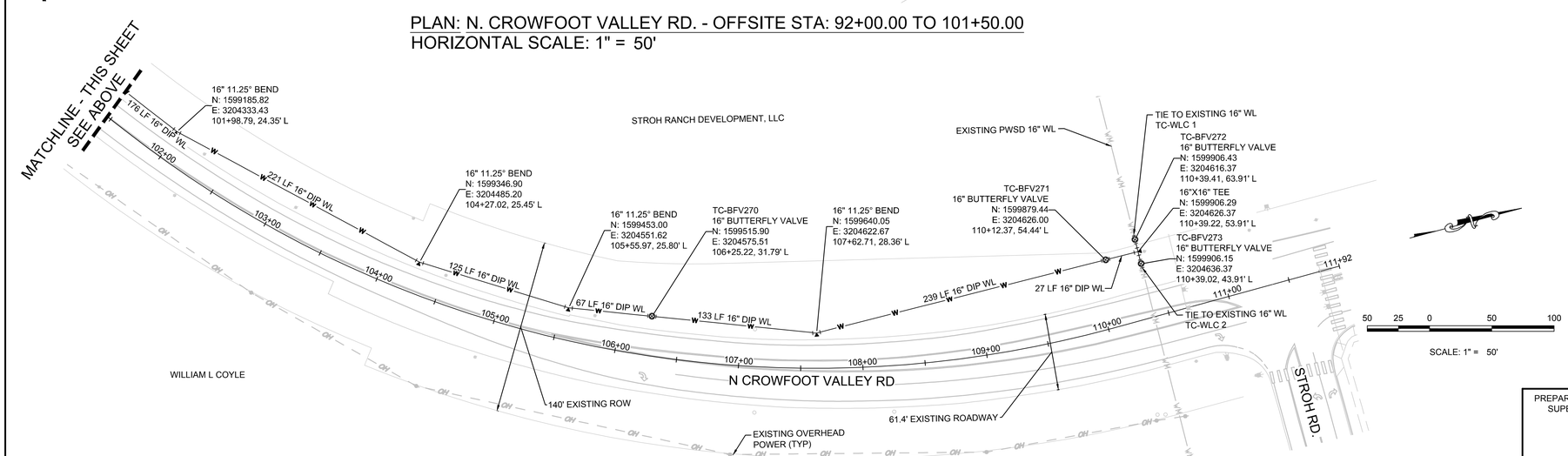
KEYMAP
N.T.S.



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LEGEND

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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)

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
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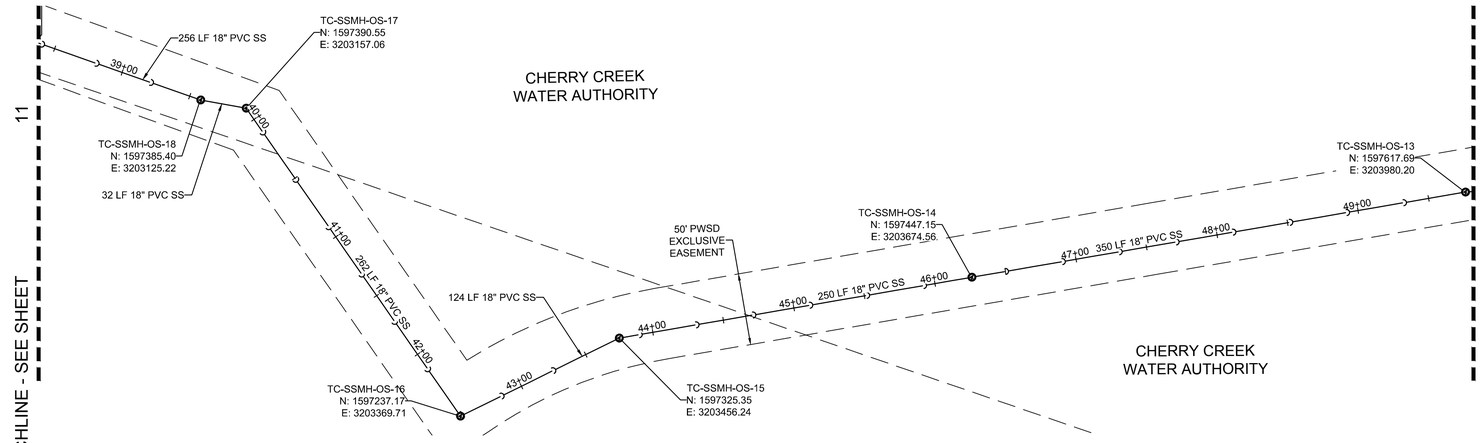
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
OFFSITE UTILITY AREA - CROWFOOT

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 12

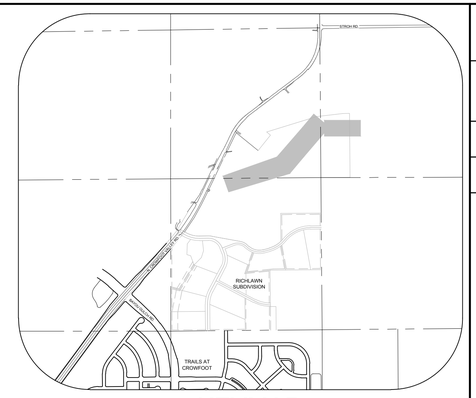
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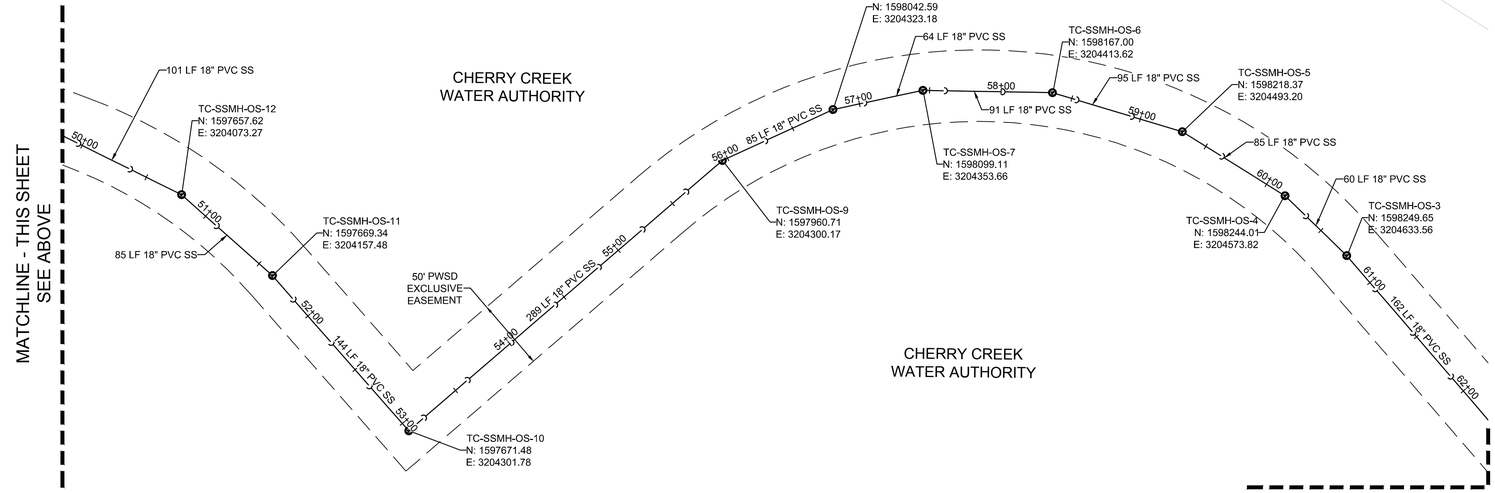
PLAN: LEMON GULCH OUTFALL - OFFSITE STA: 38+50.00 TO 50+00.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



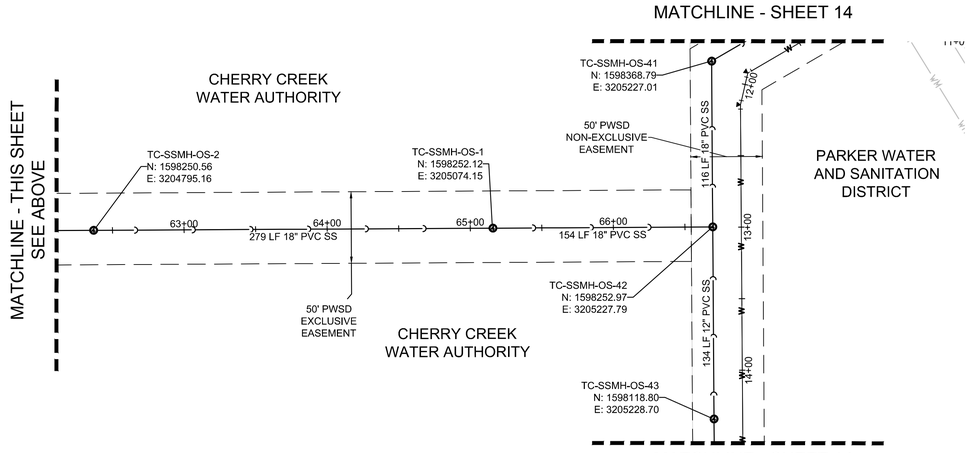
KEYMAP
N.T.S.



PLAN: LEMON GULCH OUTFALL - OFFSITE STA: 50+00.00 TO 62+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



PLAN: LEMON GULCH OUTFALL - OFFSITE STA: 62+50.00 TO 67+00.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

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 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
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ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
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FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
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REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ _____
(DISTRICT REPRESENTATIVE) DATE

APPROVED FOR CONSTRUCTION: PARKER WATER AND SANITATION DISTRICT

BY: _____ _____
(DISTRICT ENGINEER) DATE

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

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.

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\F1 OFFSITE AREA UTILITY CROWFOOT.DWG, BRIANW, 12/7/2017 9:03 PM

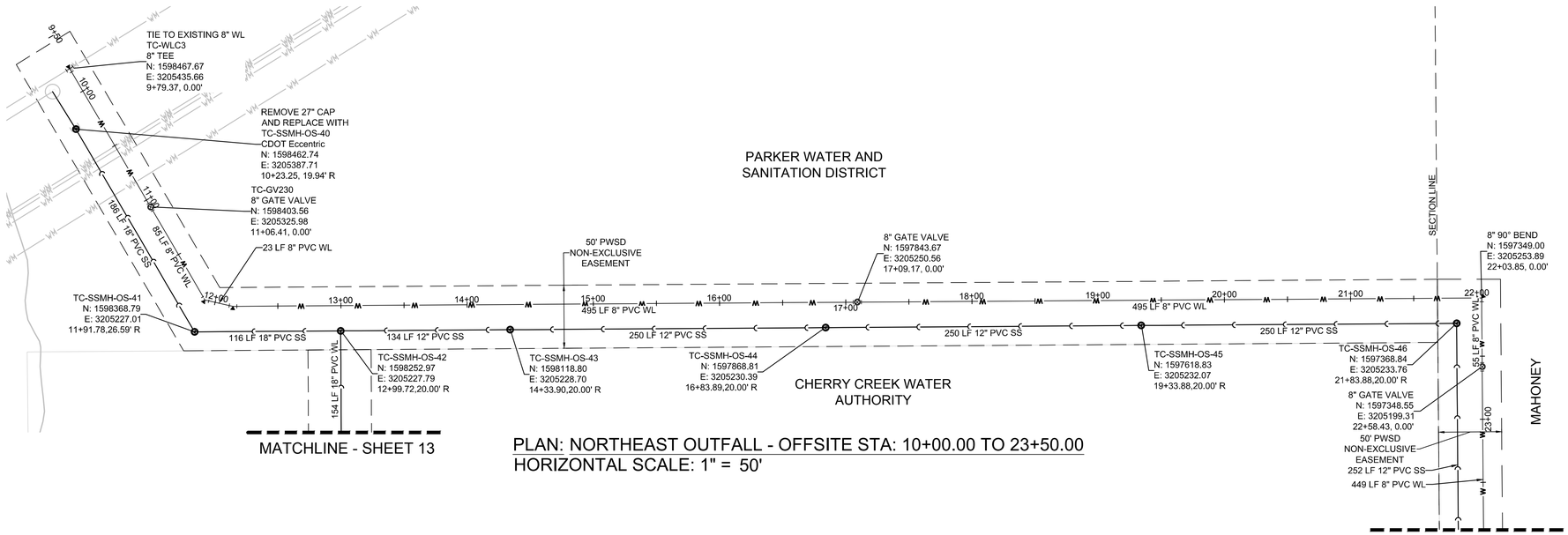
No.	Revisions	Date	Init.	Appr.	Date

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

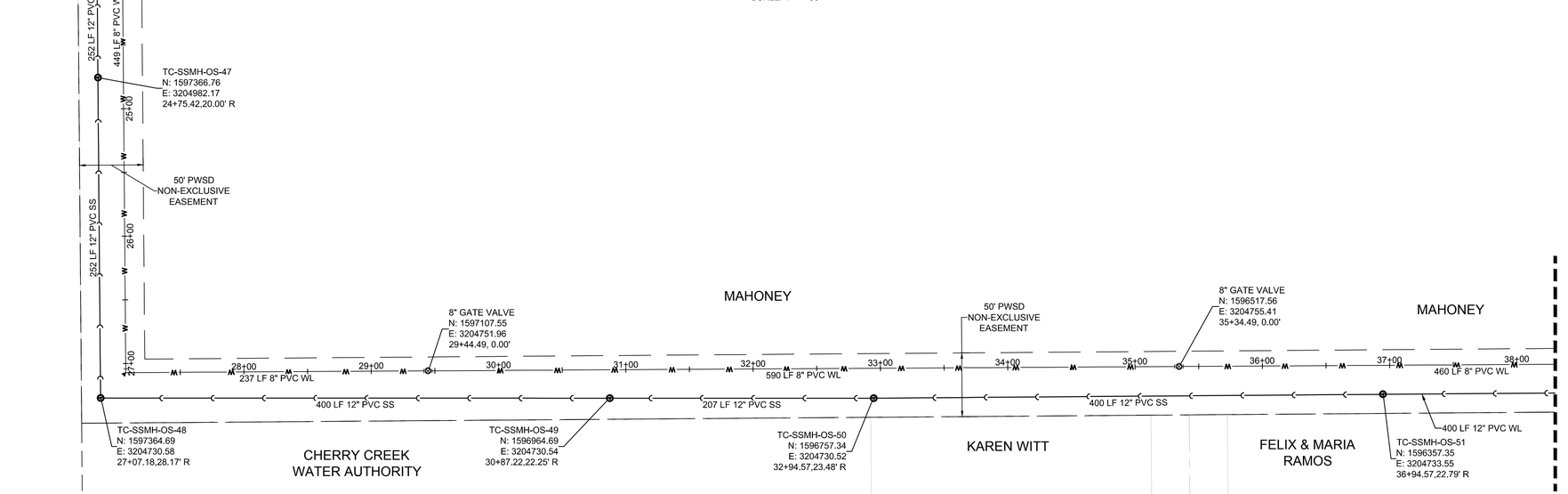
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TRAILS AT CROWFOOT
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SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 13

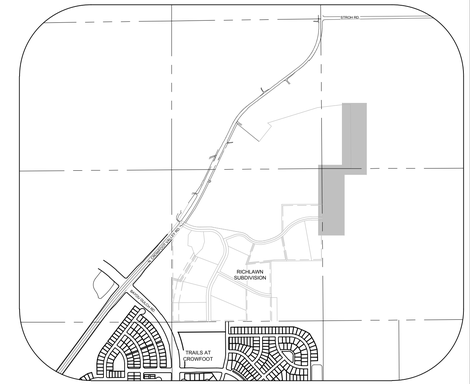


PLAN: NORTHEAST OUTFALL - OFFSITE STA: 10+00.00 TO 23+50.00
HORIZONTAL SCALE: 1" = 50'



PLAN: NORTHEAST OUTFALL - OFFSITE STA: 23+50.00 TO 38+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100
SCALE: 1" = 50'



KEYMAP
N.T.S.

LEGEND

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(DISTRICT ENGINEER)

PREPARED UNDER THE SUPERVISION OF

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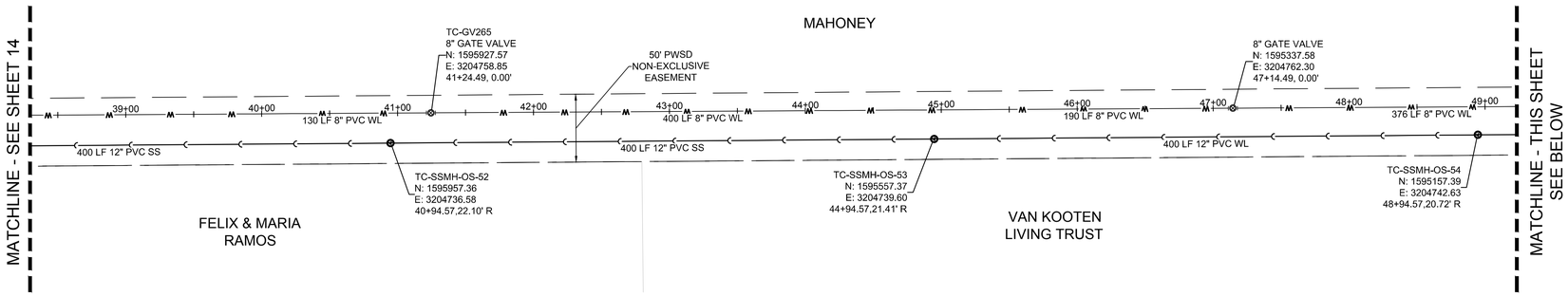
10333 E. Dry Creek Rd.
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
OFFSITE UTILITY AREA - EAST

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
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SHEET NUMBER 14

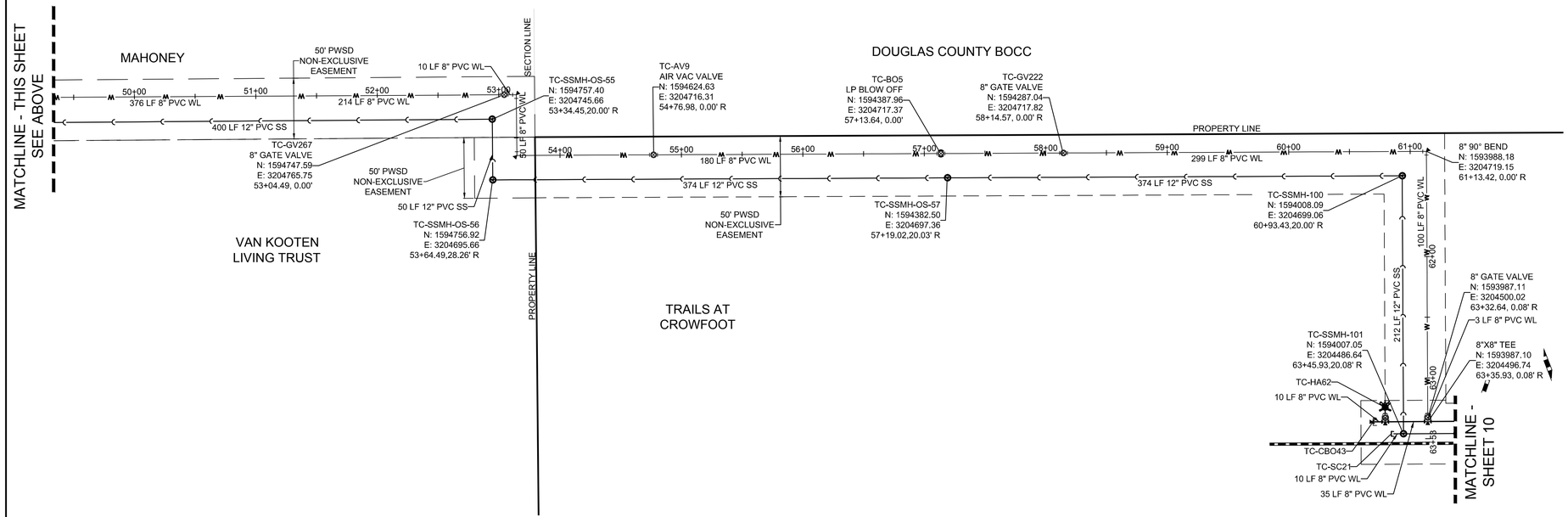
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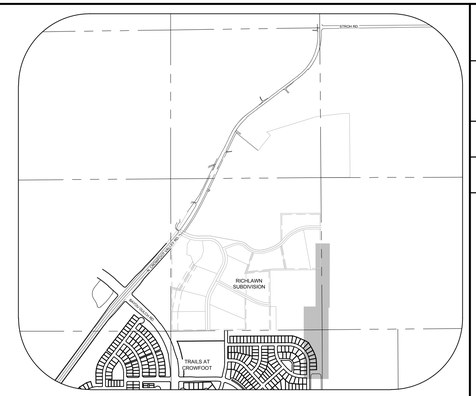
PLAN: NORTHEAST OUTFALL - OFFSITE STA: 38+50.00 TO 49+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



PLAN: NORTHEAST OUTFALL - OFFSITE STA: 49+50.00 TO 63+50.00
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KEYMAP
N.T.S.

LEGEND

BLOCK NUMBER	PROPOSED RANGE POINT
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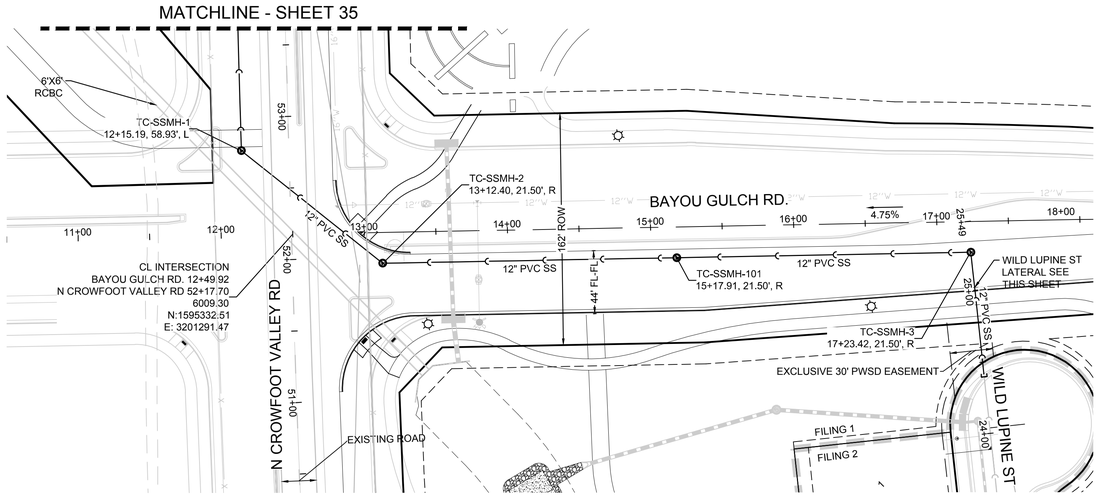
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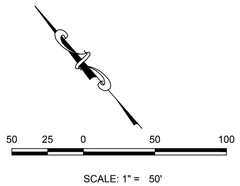
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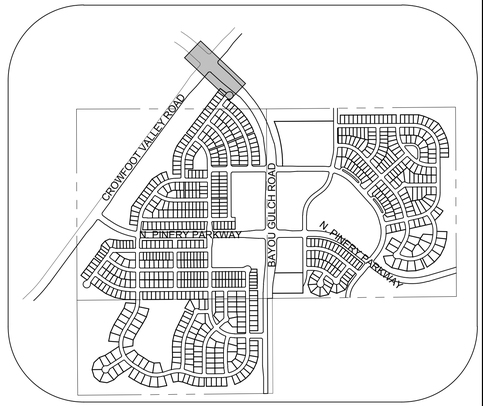
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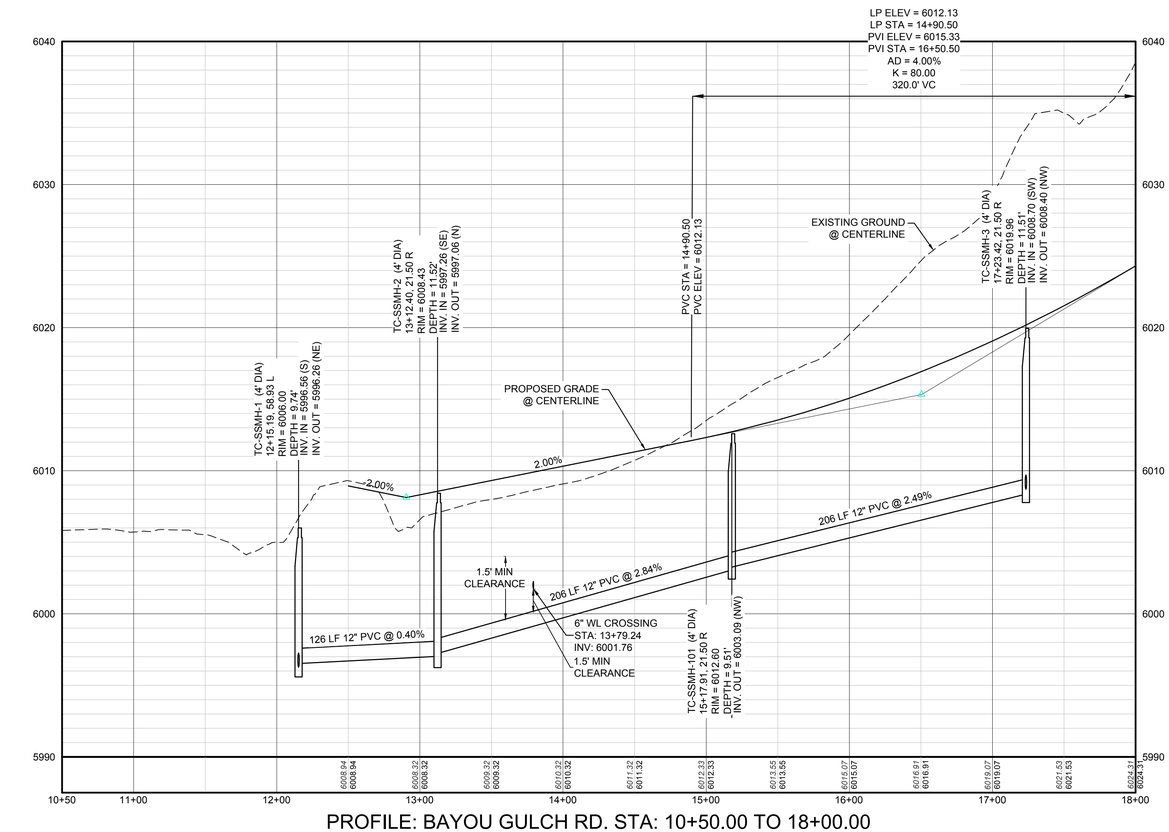


PLAN: BAYOU GULCH ROAD STA: 10+50.00 TO 18+00.00
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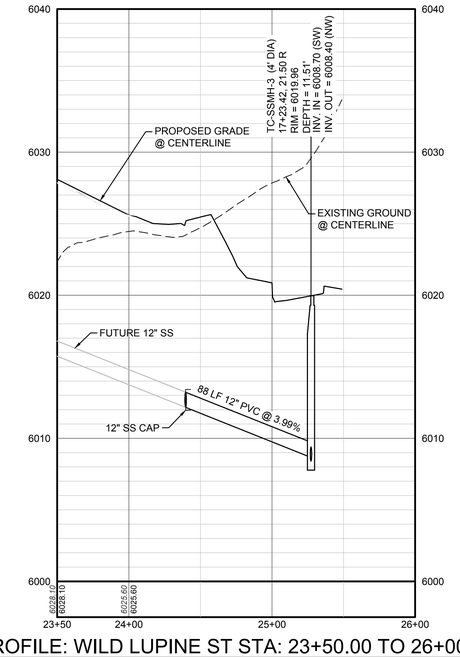




KEYMAP
N.T.S.



PROFILE: BAYOU GULCH RD. STA: 10+50.00 TO 18+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: WILD LUPINE ST STA: 23+50.00 TO 26+00.00
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VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER		PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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:
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Date	Appr.	Date

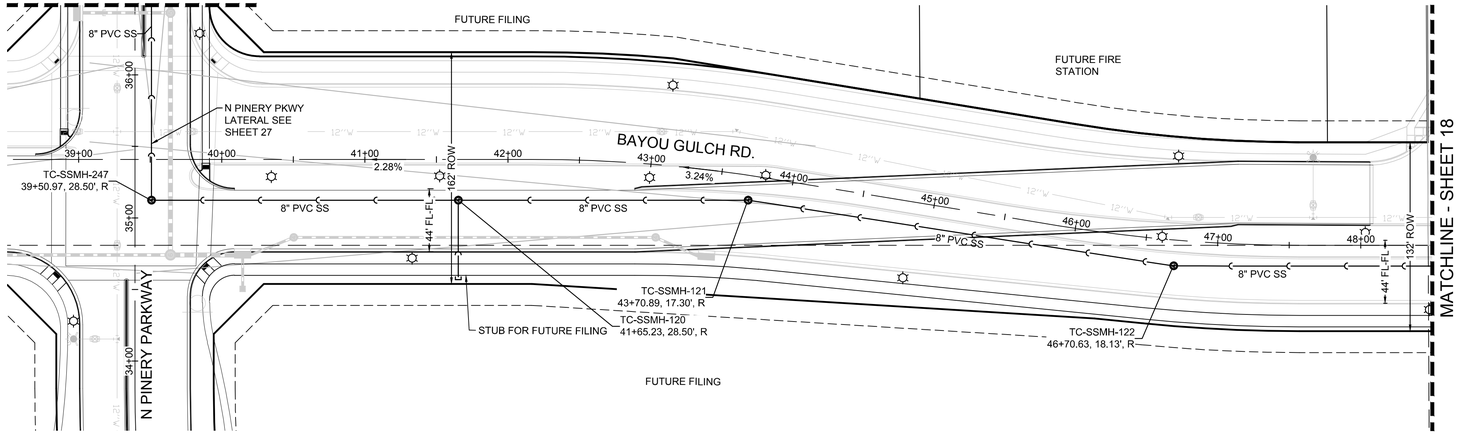
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Fax: (720) 482-9546
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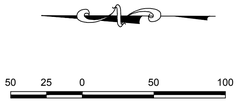
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FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BAYOU GULCH ROAD

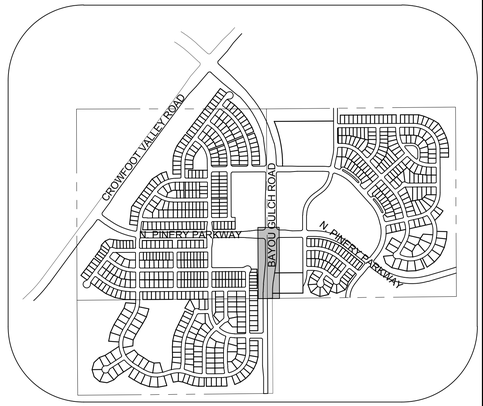
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PLAN: BAYOU GULCH ROAD STA: 38+50.00 TO 48+50.00
HORIZONTAL SCALE: 1" = 50'





KEYMAP
N.T.S.

PROFILE: BAYOU GULCH RD. STA: 38+50.00 TO 48+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2) BLOCK NUMBER	PROPOSED RANGE POINT
(A) LOT TYPE	CENTERLINE
6 LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
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FUTURE FIRE HYDRANT	PROPOSED SEWER LATERAL
PROPOSED LIGHT POLE	8"W PROPOSED WATER LINE
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
10.00 EXISTING ELEVATION	FILING BOUNDARY
10.00 PROPOSED DESIGN ELEVATION	FO EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	OH EXISTING OVERHEAD POWER
(4)(5)(6) PROPOSED STORM DRAIN MANHOLE	TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

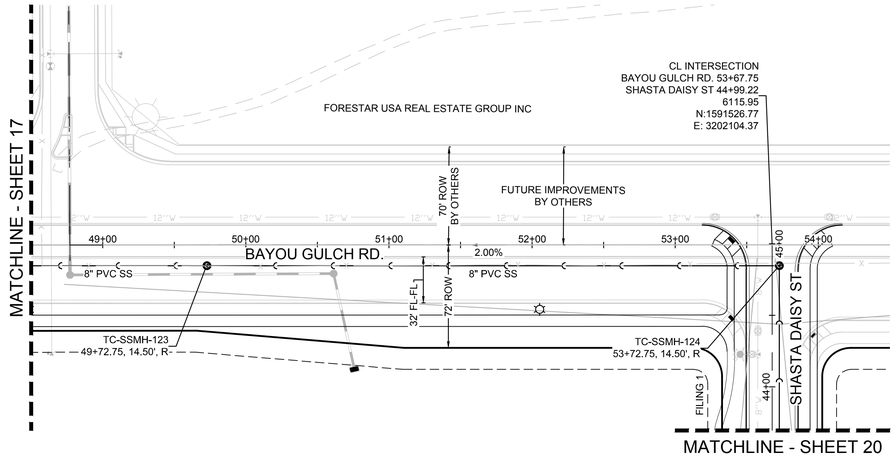
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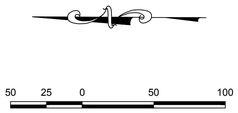
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BAYOU GULCH ROAD

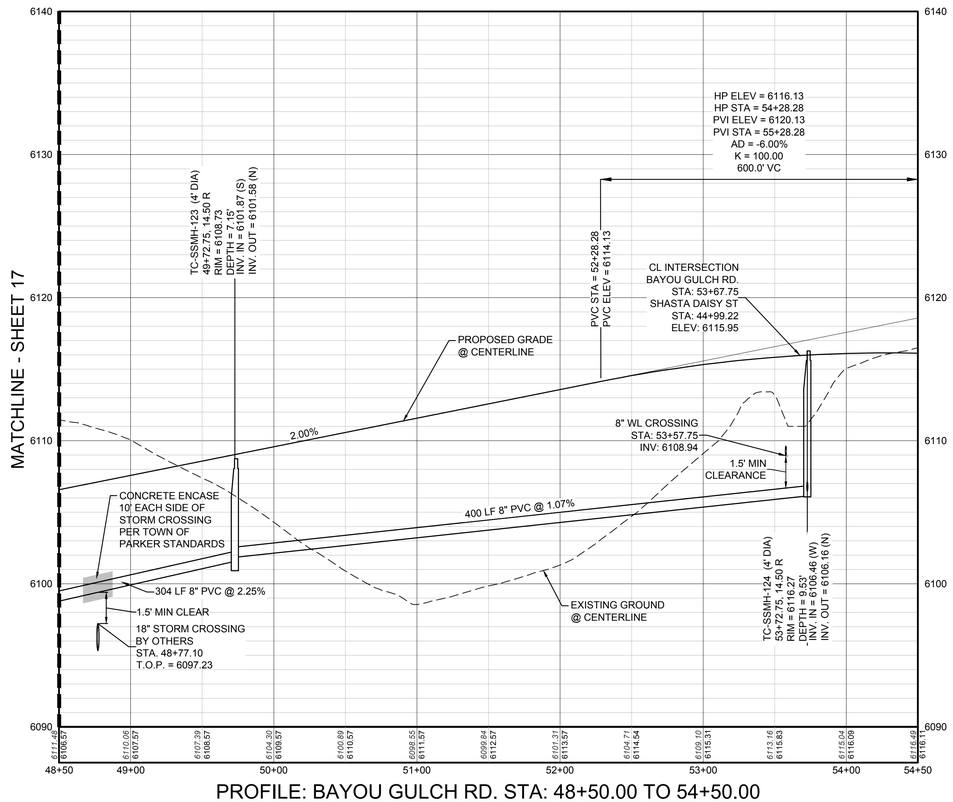
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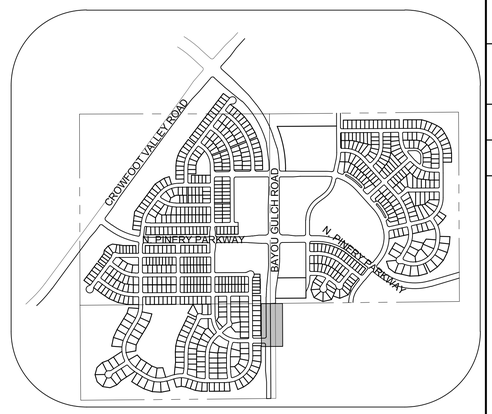




PLAN: BAYOU GULCH ROAD STA: 48+50.00 TO 54+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: BAYOU GULCH RD. STA: 48+50.00 TO 54+50.00
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KEYMAP
N.T.S.

LEGEND

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	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
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COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Date	Appr.	Date

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Tel: (720) 482-9526
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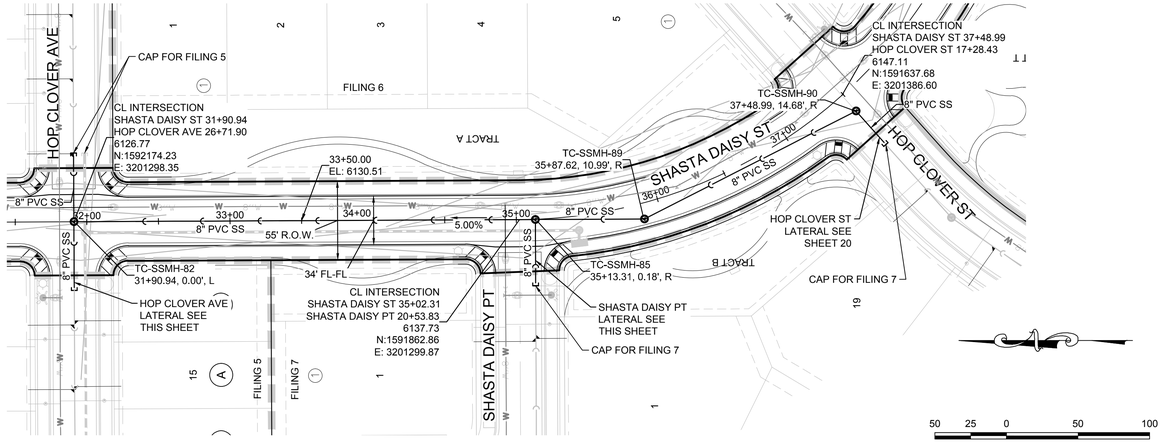
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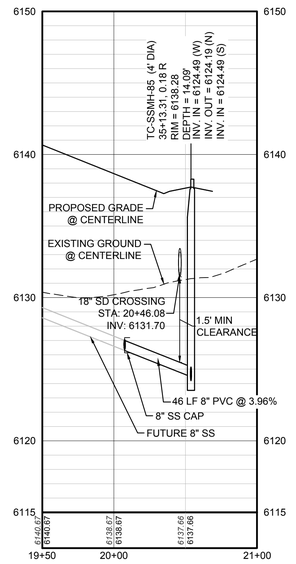
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BAYOU GULCH ROAD

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DATE: APRIL 2017
SHEET NUMBER 18

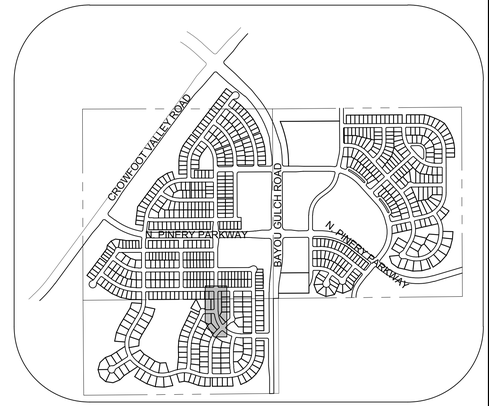
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PLAN: SHASTA DAISY STREET STA: 31+50.00 TO 38+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SHASTA DAISY PT STA: 19+50.00 TO 21+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



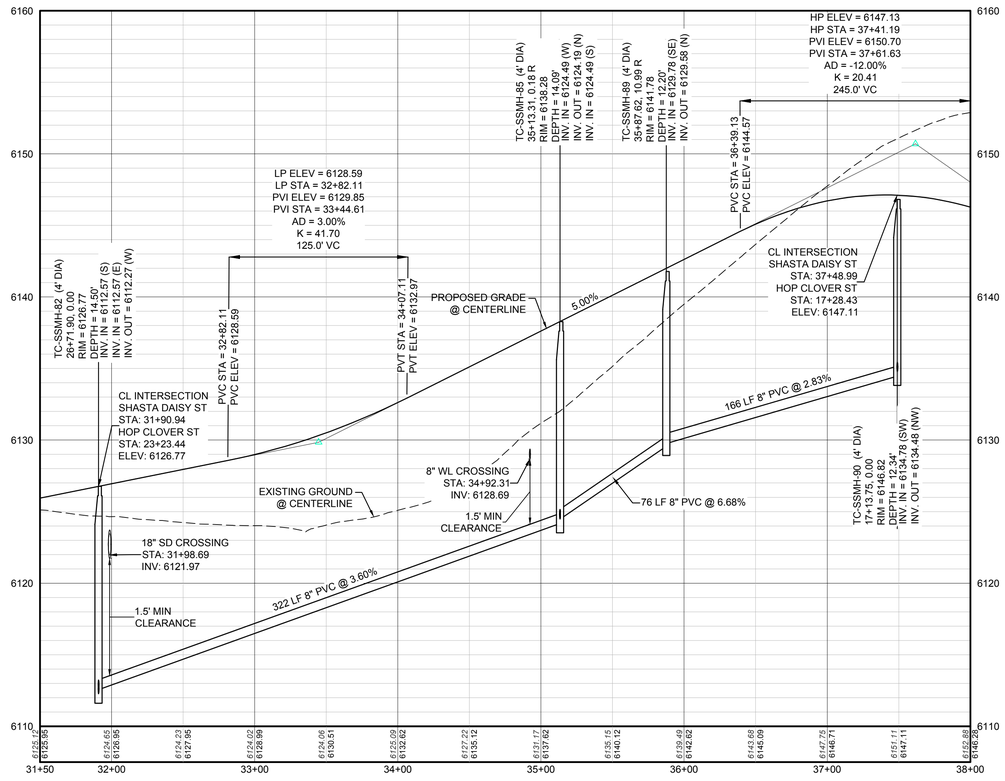
KEYMAP
N.T.S.

LEGEND

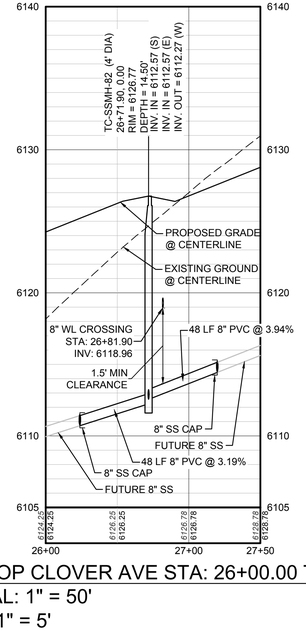
2	BLOCK NUMBER		PROPOSED RANGE POINT
A	LOT TYPE		CENTERLINE
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	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
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PROFILE: SHASTA DAISY ST STA: 31+50.00 TO 38+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER AVE STA: 26+00.00 TO 27+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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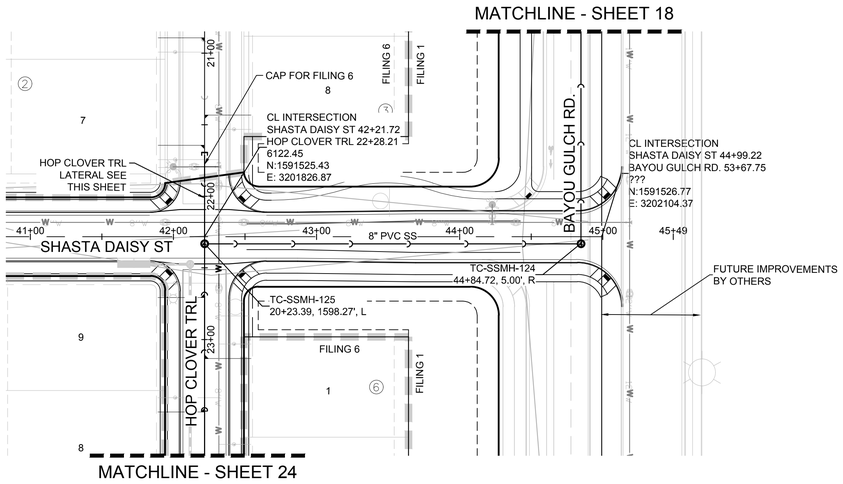
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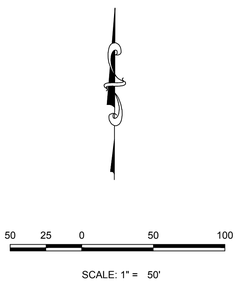
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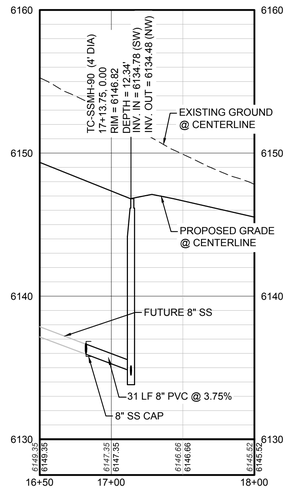
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DATE: APRIL 2017
SHEET NUMBER 19

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 SHASTA DAISY STREET SANITARY DWG, CHRISTOPHERB, 12/7/2017 9:16 PM

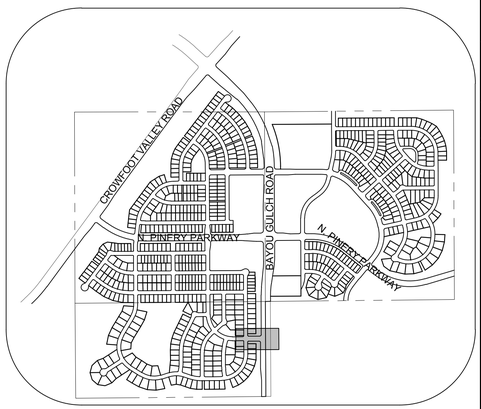


PLAN: SHASTA DAISY STREET STA: 41+50.00 TO 46+00.00
HORIZONTAL SCALE: 1" = 50'





PROFILE: HOP CLOVER ST STA: 16+50.00 TO 18+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

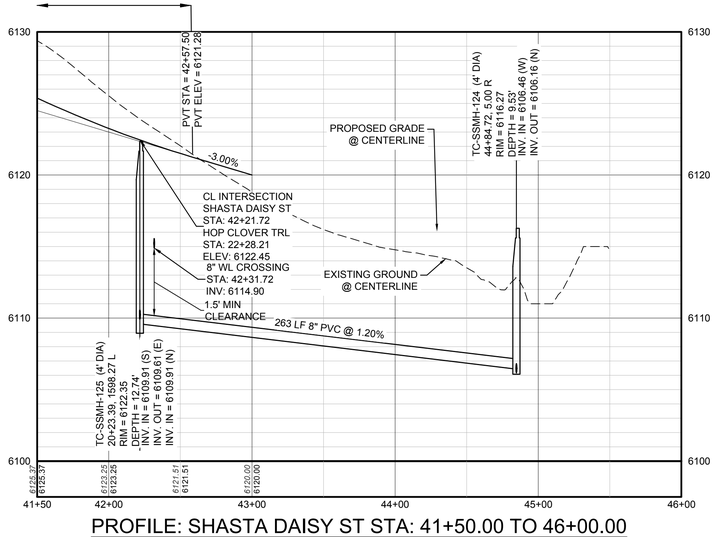
LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

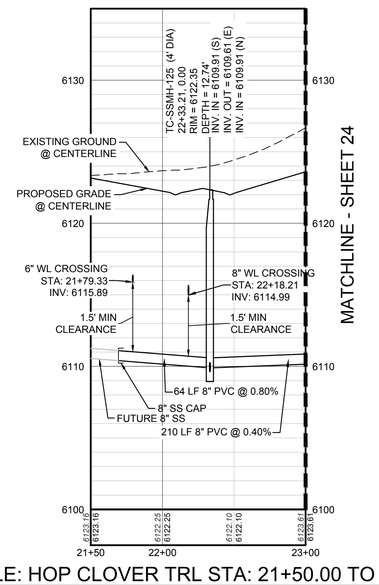
ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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

LP ELEV = 6121.28
LP STA = 42+57.50
PVI ELEV = 6125.25
PVI STA = 41+25.00
AD = 4.00%
K = 66.20
265.0' VC



PROFILE: SHASTA DAISY ST STA: 41+50.00 TO 46+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



MATCHLINE - SHEET 24

PROFILE: HOP CLOVER TRL STA: 21+50.00 TO 23+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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

No.	Revisions	Date	Init.	Appr.	Date

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

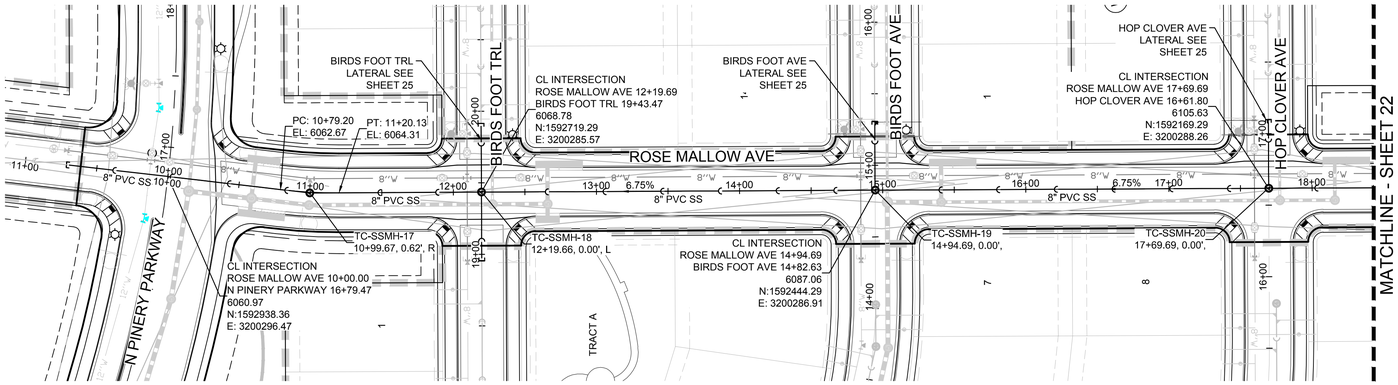
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SHASTA DAISY STREET

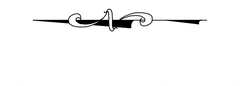
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CHECKED BY:	JJJ	FILE NO:	8130283701
DATE:	APRIL 2017		

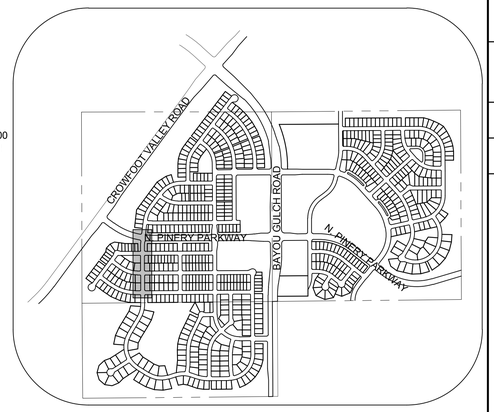
SHEET NUMBER 20

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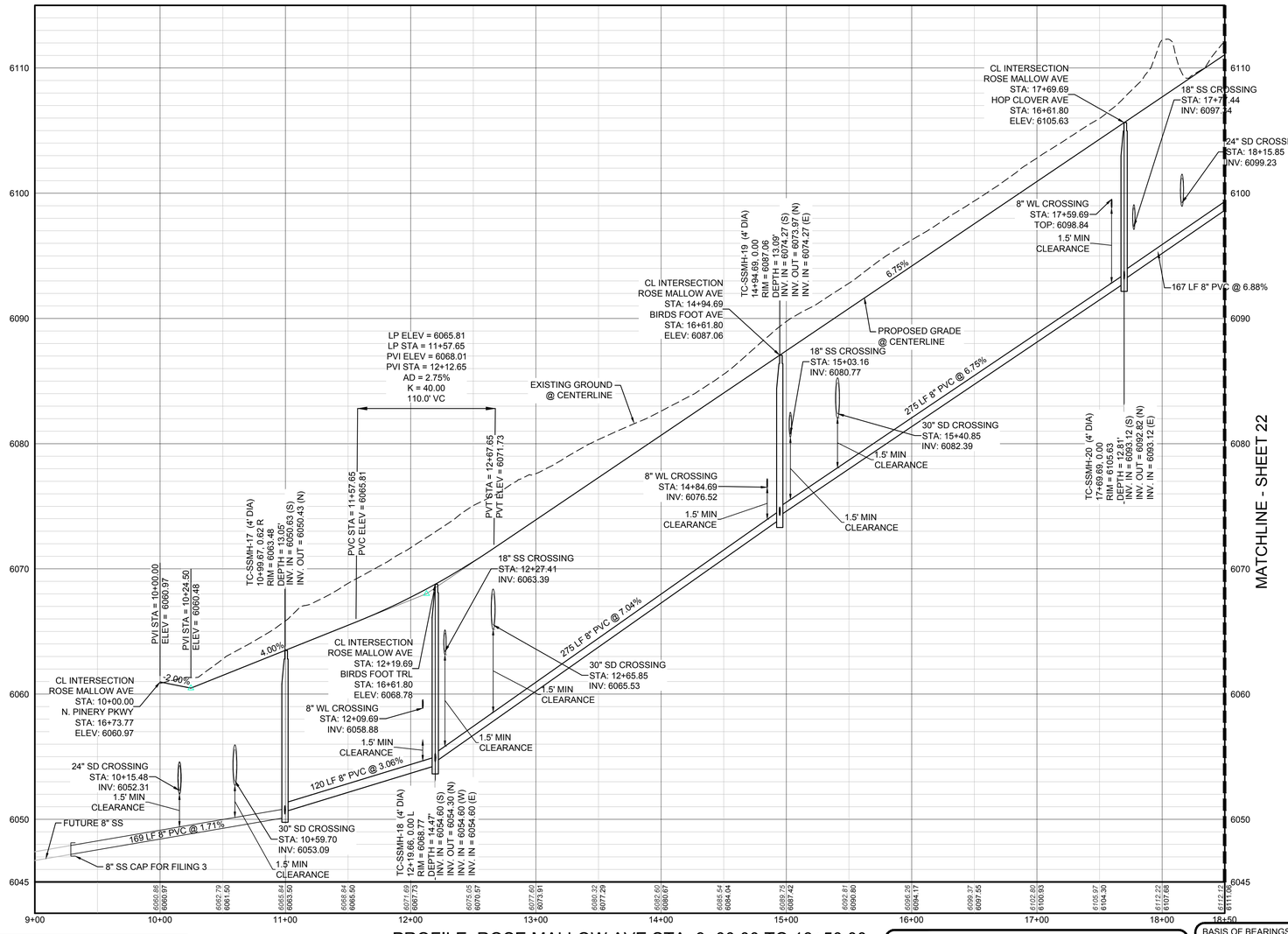


PLAN: ROSE MALLOW AVE STA: 9+00.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'





KEYMAP
N.T.S.



PROFILE: ROSE MALLOW AVE STA: 9+00.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
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	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
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	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

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EVC	END VERTICAL CURVE	SC	SANITARY CAP
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No.	Revisions	Date	Init.	Date	Appr.	Date

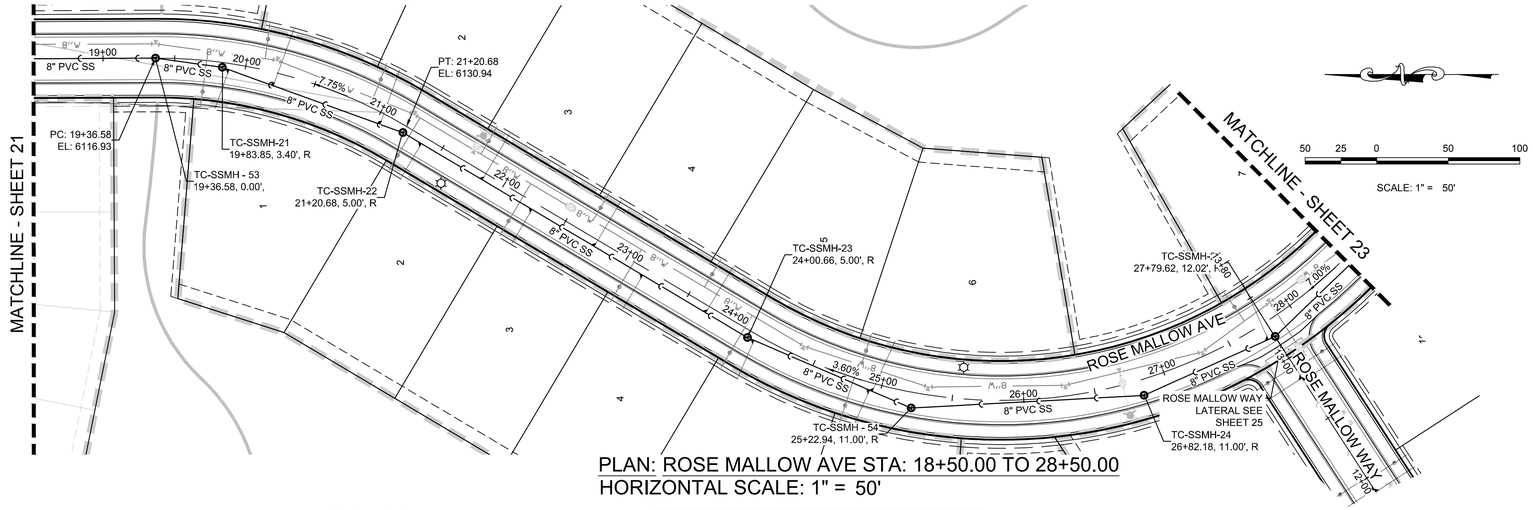
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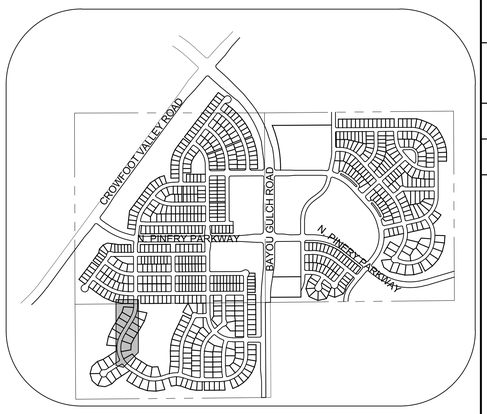
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ROSE MALLOW AVE

SCALE: AS SHOWN
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
FILE NO: 8130283701
SHEET NUMBER 21

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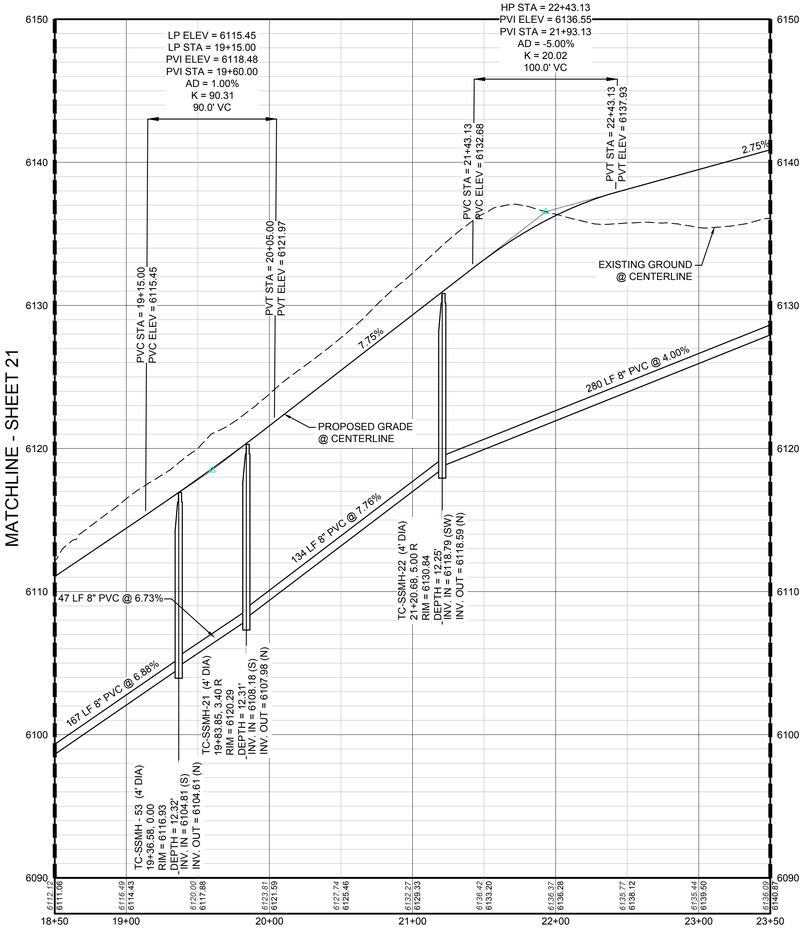


PLAN: ROSE MALLOW AVE STA: 18+50.00 TO 28+50.00
HORIZONTAL SCALE: 1" = 50'

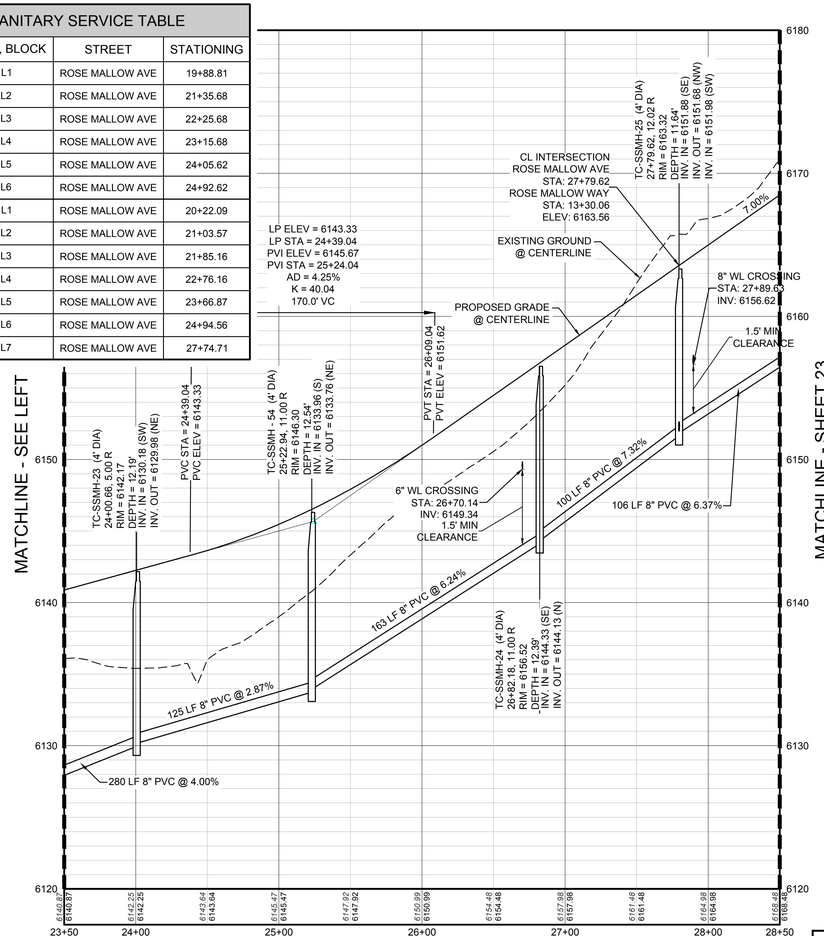


KEYMAP
N.T.S.

SANITARY SERVICE TABLE		
FILING, LOT, BLOCK	STREET	STATIONING
F8, B1, L1	ROSE MALLOW AVE	19+88.81
F8, B1, L2	ROSE MALLOW AVE	21+35.68
F8, B1, L3	ROSE MALLOW AVE	22+25.68
F8, B1, L4	ROSE MALLOW AVE	23+15.68
F8, B1, L5	ROSE MALLOW AVE	24+05.62
F8, B1, L6	ROSE MALLOW AVE	24+92.62
F8, B2, L1	ROSE MALLOW AVE	20+22.09
F8, B2, L2	ROSE MALLOW AVE	21+03.57
F8, B2, L3	ROSE MALLOW AVE	21+85.16
F8, B2, L4	ROSE MALLOW AVE	22+76.16
F8, B2, L5	ROSE MALLOW AVE	23+66.87
F8, B2, L6	ROSE MALLOW AVE	24+94.56
F8, B2, L7	ROSE MALLOW AVE	27+74.71



PROFILE: ROSE MALLOW AVE STA: 18+50.00 TO 23+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW AVE STA: 23+50.00 TO 28+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
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BENCHMARK
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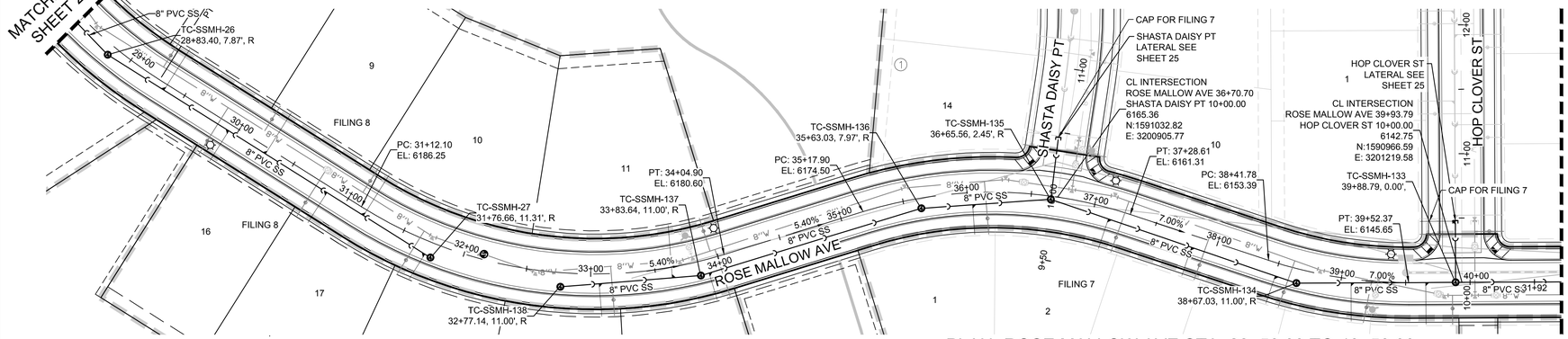
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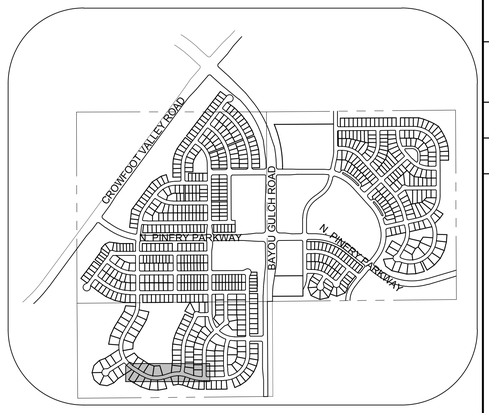
E5K MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ROSE MALLOW AVE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 22

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 ROSE MALLOW AVE SANITARY.DWG, CHRISTOPHERB, 12/7/2017 9:20 PM





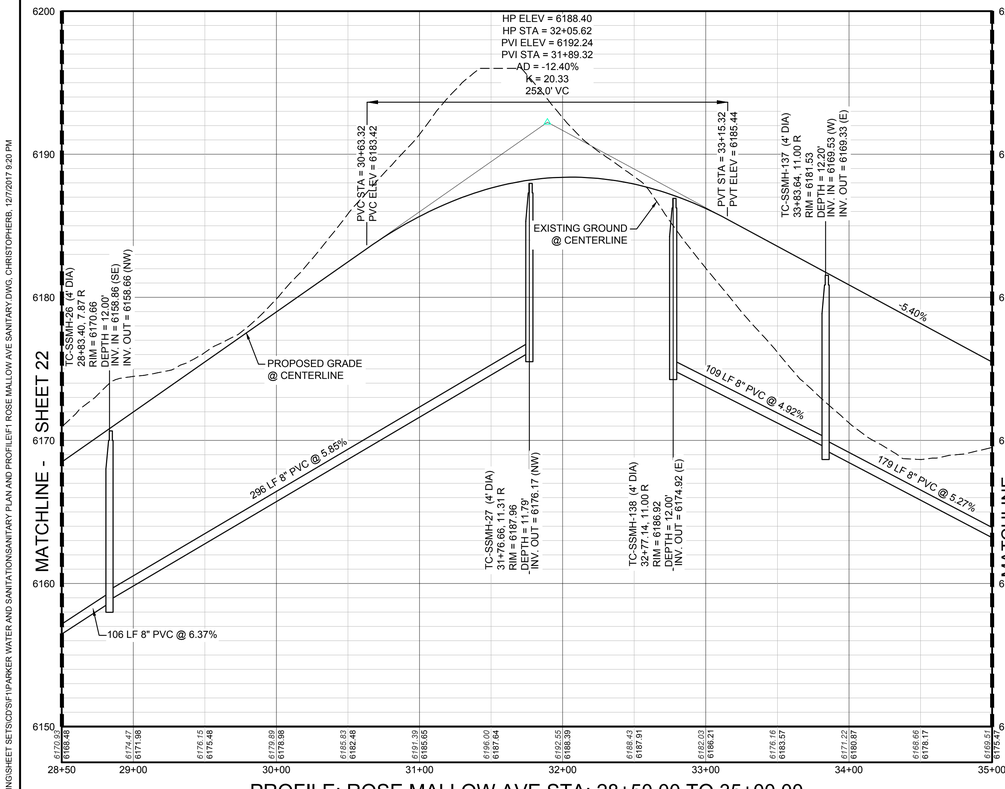
KEYMAP
N.T.S.

SANITARY SERVICE TABLE					
FILING, LOT, BLOCK	STREET	STATIONING	FILING, LOT, BLOCK	STREET	STATIONING
F7, B4, L1	ROSE MALLOW AVE	36+03.97	F8, B1, L18	ROSE MALLOW AVE	31+71.90
F7, B4, L2	ROSE MALLOW AVE	37+13.31	F8, B1, L19	ROSE MALLOW AVE	33+06.43
F7, B4, L3	ROSE MALLOW AVE	37+81.82	F8, B1, L20	ROSE MALLOW AVE	33+90.10
F7, B4, L4	ROSE MALLOW AVE	38+50.26	F8, B2, L7	ROSE MALLOW AVE	27+74.71
F7, B4, L5	ROSE MALLOW AVE	39+07.86	F8, B2, L8	ROSE MALLOW AVE	29+34.24
F7, B4, L6	ROSE MALLOW AVE	39+65.65	F8, B2, L9	ROSE MALLOW AVE	30+27.18
F8, B1, L16	ROSE MALLOW AVE	29+93.58	F8, B2, L10	ROSE MALLOW AVE	31+17.11
F8, B1, L17	ROSE MALLOW AVE	30+83.58	F8, B2, L11	ROSE MALLOW AVE	33+62.25

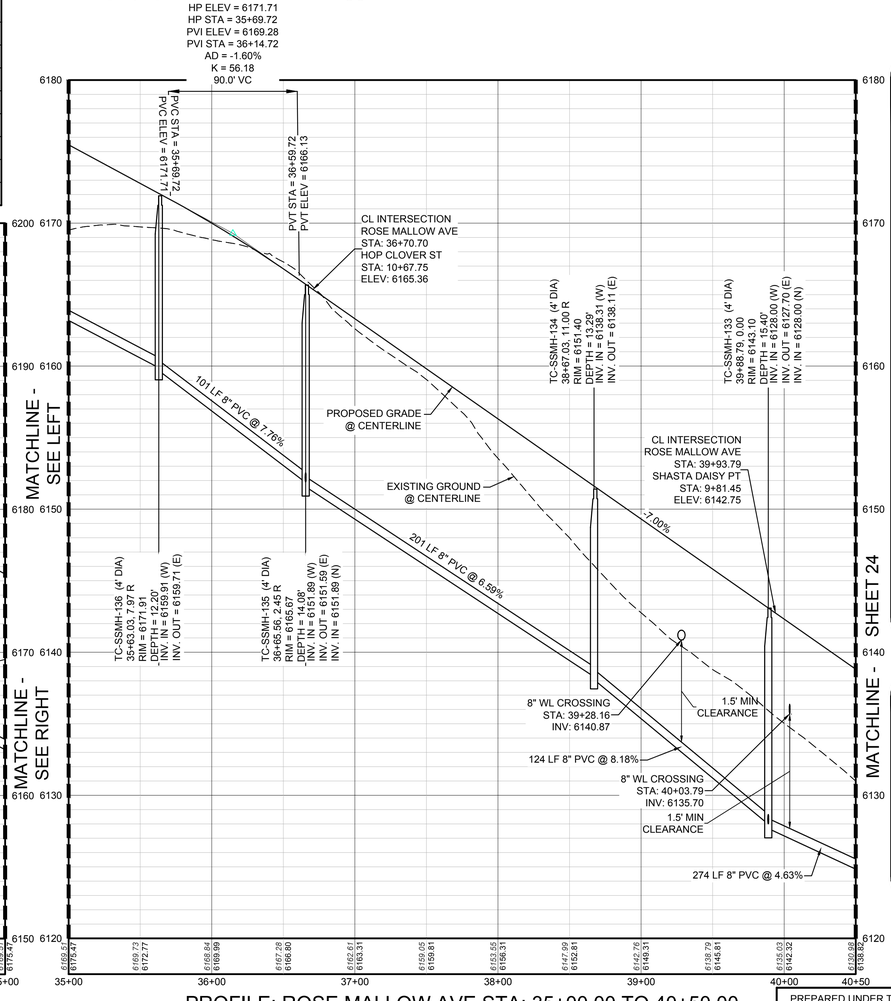
50 25 0 50 100

SCALE: 1" = 50'

PLAN: ROSE MALLOW AVE STA: 28+50.00 TO 40+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ROSE MALLOW AVE STA: 28+50.00 TO 35+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW AVE STA: 35+00.00 TO 40+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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
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PROPOSED WL FITTING WITH THRUST BLOCK	EXISTING 1' CONTOUR
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PROPOSED AIR VALVE	PROPOSED STORM DRAIN
FUTURE PHASE VALVE	PROPOSED SEWER LINE WITH MANHOLE
FUTURE FIRE HYDRANT	PROPOSED SEWER LATERAL
PROPOSED 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
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

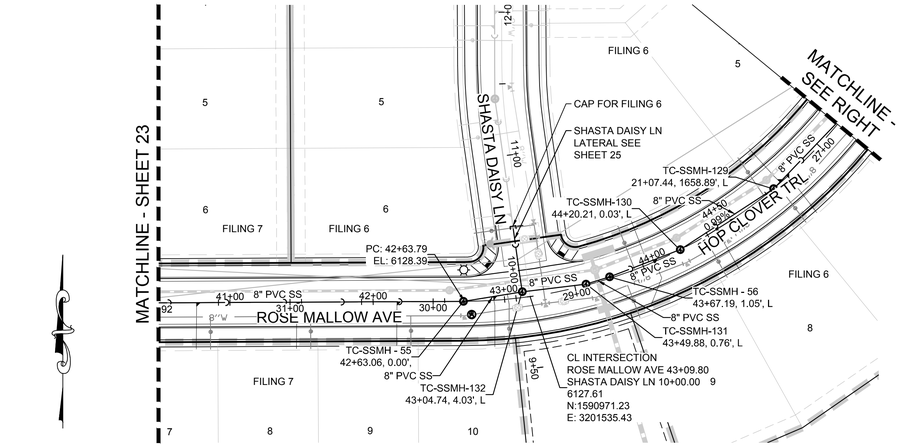
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ROSE MALLOW AVE

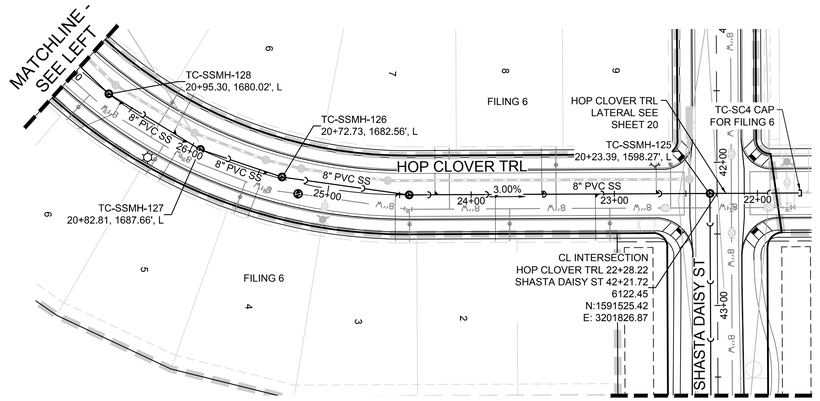
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PLAN: ROSE MALLOW AVE STA: 40+50.00 TO 45+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100
SCALE: 1" = 50'

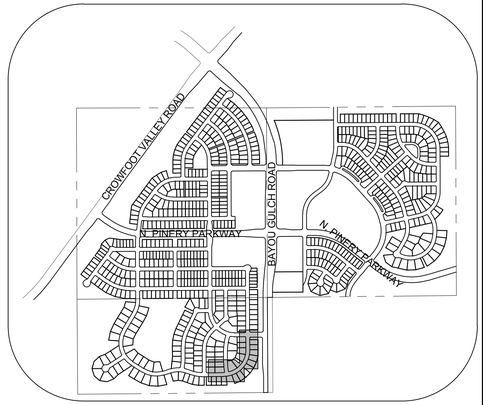


PLAN: HOP CLOVER TRL STA: 28+50.00 TO 21+50.00
HORIZONTAL SCALE: 1" = 50'

MATCHLINE - SHEET 20

50 25 0 50 100
SCALE: 1" = 50'

SANITARY SERVICE TABLE					
			FILING, LOT, BLOCK	STREET	STATIONING
F6, B5, L4	HOP CLOVER TRL	28+46.39	F6, B6, L5	HOP CLOVER TRL	26+07.19
F6, B5, L5	HOP CLOVER TRL	27+37.13	F6, B6, L6	HOP CLOVER TRL	26+58.91
F6, B5, L6	HOP CLOVER TRL	26+15.89	F6, B6, L7	HOP CLOVER TRL	27+30.78
F6, B5, L7	HOP CLOVER TRL	24+25.25	F6, B6, L8	HOP CLOVER TRL	27+93.05
F6, B5, L8	HOP CLOVER TRL	23+50.71	F6, B6, L9	HOP CLOVER TRL	28+41.38
F6, B5, L9	HOP CLOVER TRL	22+70.68	F7, B4, L7	ROSE MALLOW AVE	40+76.73
F6, B6, L1	HOP CLOVER TRL	23+13.23	F7, B4, L8	ROSE MALLOW AVE	41+46.73
F6, B6, L2	HOP CLOVER TRL	23+83.21	F7, B4, L9	ROSE MALLOW AVE	42+16.73
F6, B6, L3	HOP CLOVER TRL	24+52.44	F7, B4, L10	ROSE MALLOW AVE	42+84.17
F6, B6, L4	HOP CLOVER TRL	25+46.30			



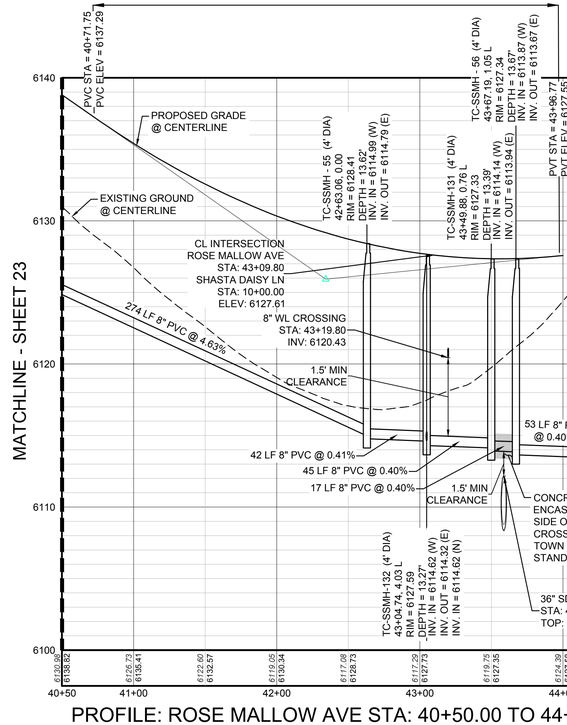
KEYMAP
N.T.S.

LEGEND

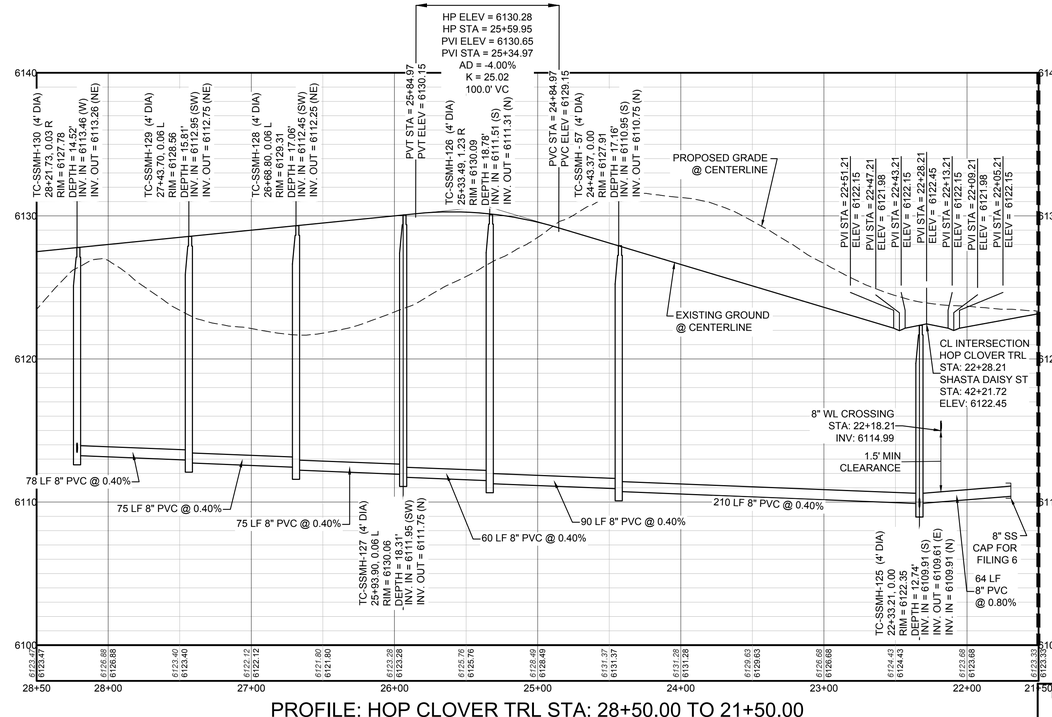
- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

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PROFILE: ROSE MALLOW AVE STA: 40+50.00 TO 44+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER TRL STA: 28+50.00 TO 21+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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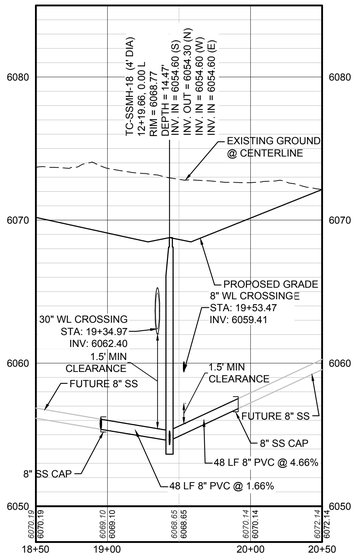
No.	Revisions	Date	Init.	Appr.	Date

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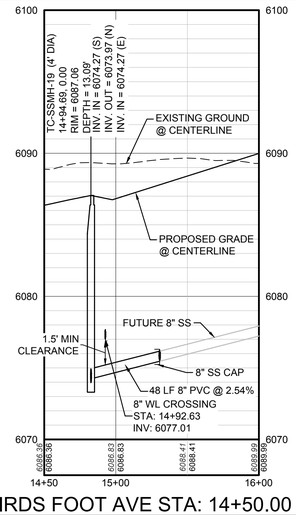
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ROSE MALLOW AVE

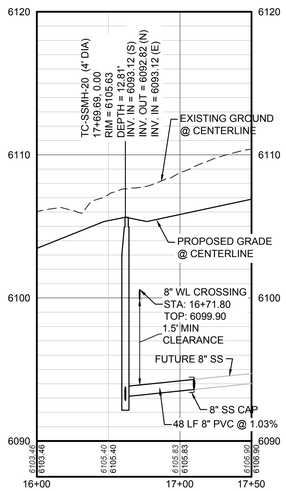
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CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 24



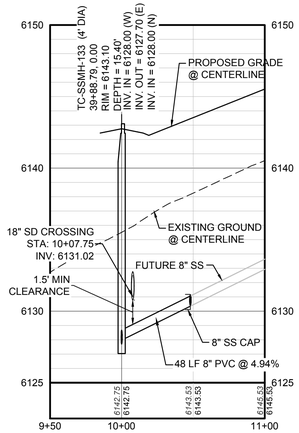
PROFILE: BIRDS FOOT TRL STA: 18+50.00 TO 20+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



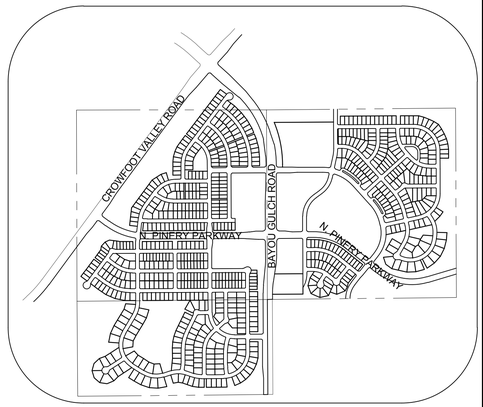
PROFILE: BIRDS FOOT AVE STA: 14+50.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER AVE STA: 16+00.00 TO 17+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: HOP CLOVER ST STA: 9+50.00 TO 11+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



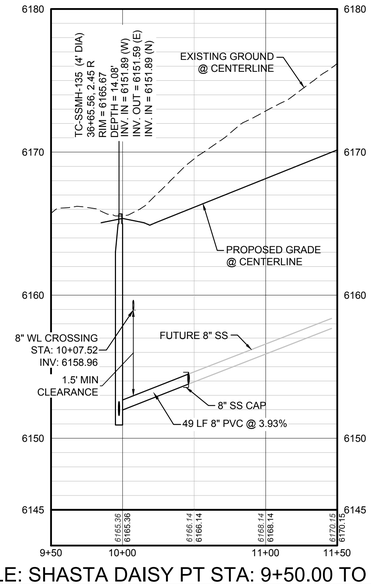
KEYMAP
N.T.S.

LEGEND

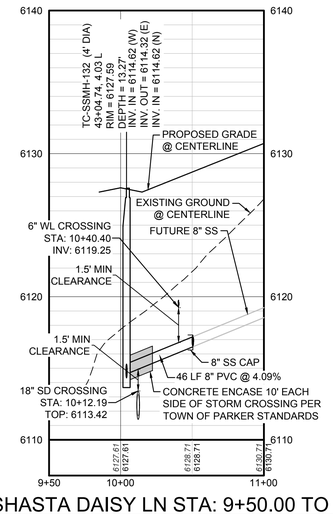
(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
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(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

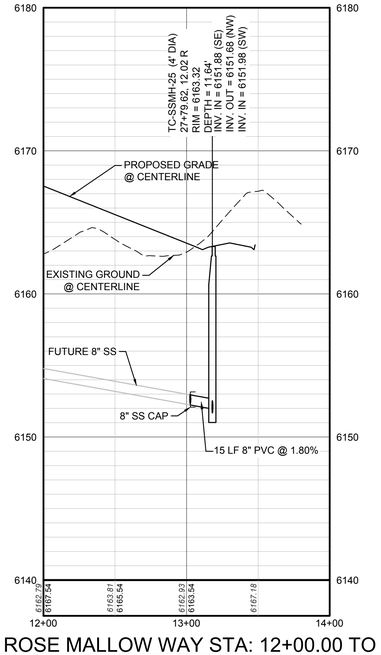
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PROFILE: SHASTA DAISY PT STA: 9+50.00 TO 11+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: SHASTA DAISY LN STA: 9+50.00 TO 11+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW WAY STA: 12+00.00 TO 14+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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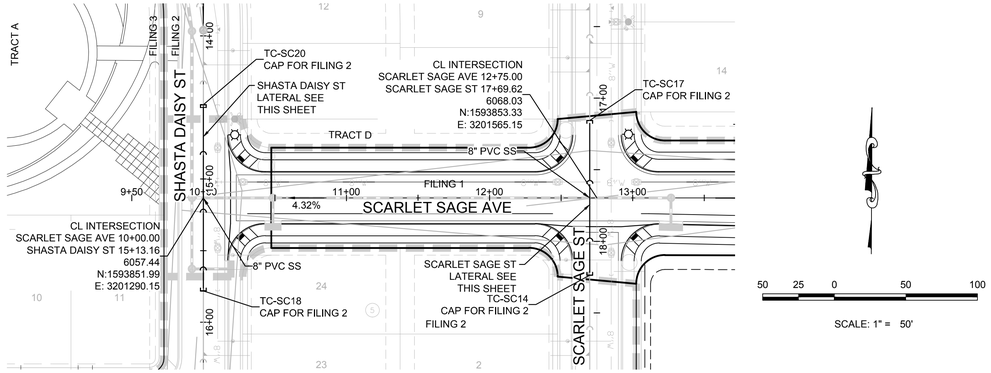
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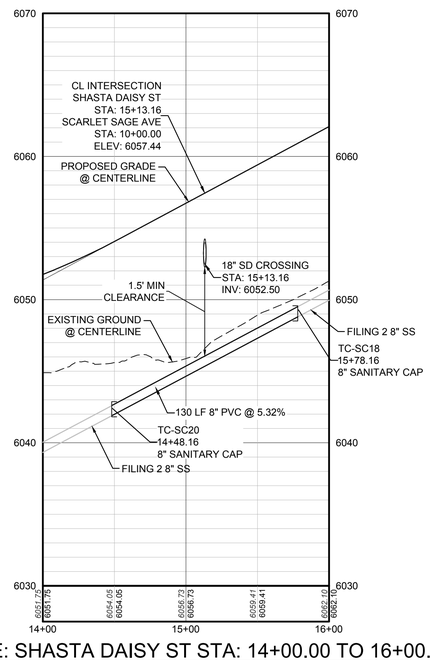
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ROSE MALLOW AVE LATERALS

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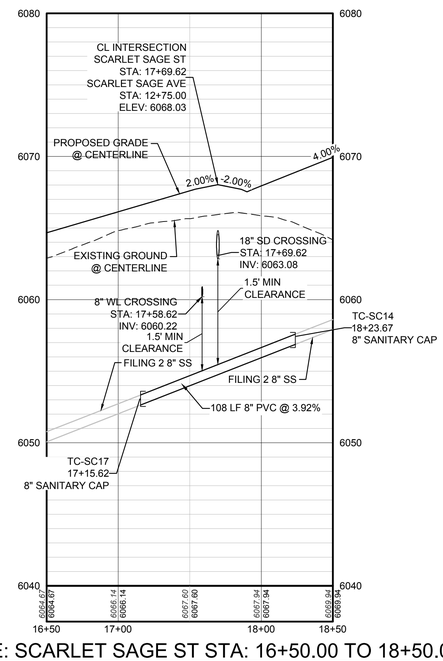
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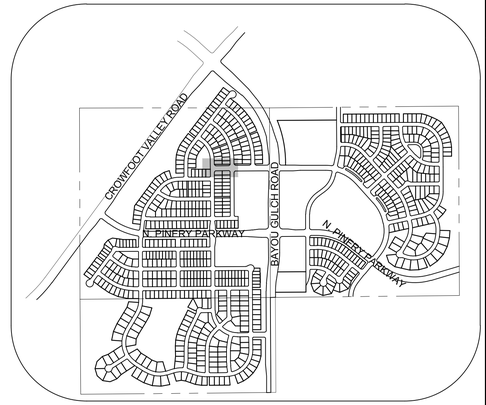
PLAN: SCARLET SAGE AVE STA: 26+50.00 TO 34+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SHASTA DAISY ST STA: 14+00.00 TO 16+00.00
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PROFILE: SCARLET SAGE ST STA: 16+50.00 TO 18+50.00
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KEYMAP
N.T.S.

LEGEND

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	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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

No.	Revisions	Date	Init.	Appr.	Date

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

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 26

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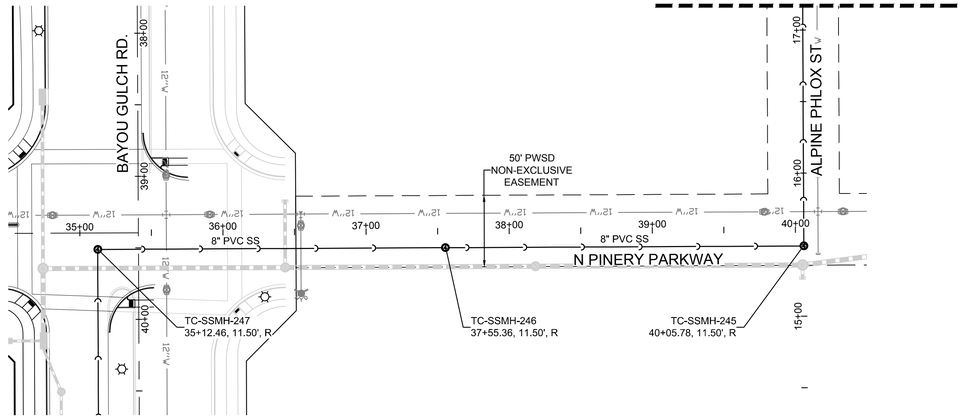
BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

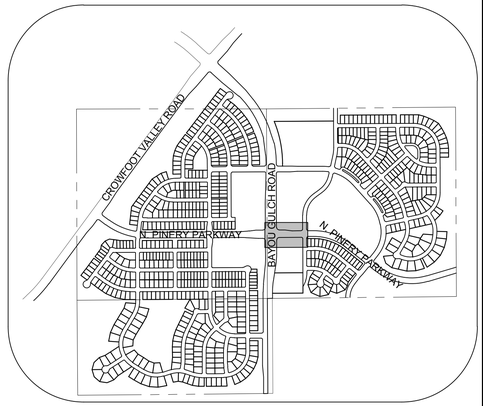
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06"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

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 SCARLET SAGE AVE SANITARY.DWG, BRIANW, 12/7/2017 9:25 PM



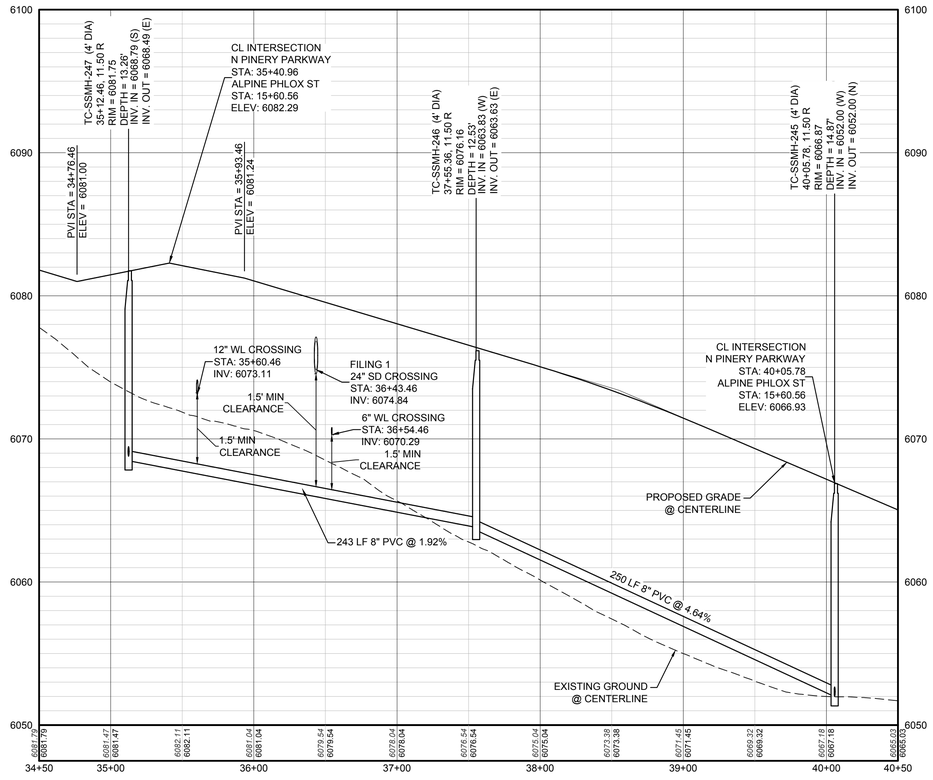


KEYMAP
N.T.S.

50 25 0 50 100

SCALE: 1" = 50'

PLAN: NORTH PINERY PARKWAY STA: 34+50.00 TO 40+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: N PINERY PARKWAY STA: 34+50.00 TO 40+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
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FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

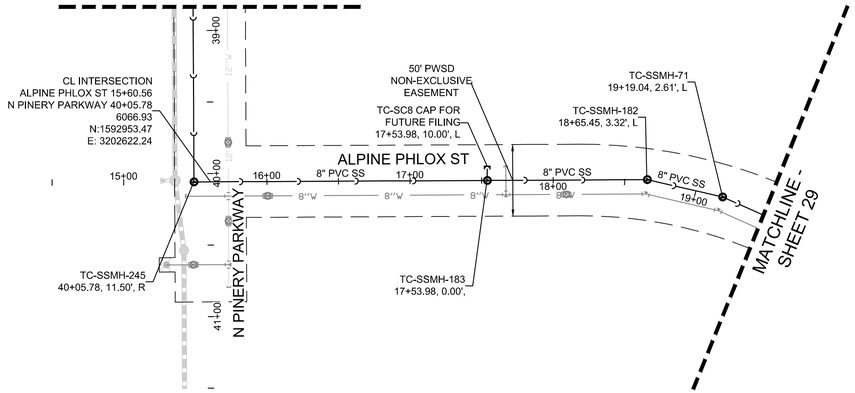
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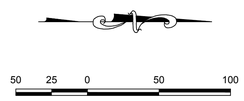
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CENTENNIAL, CO 80112

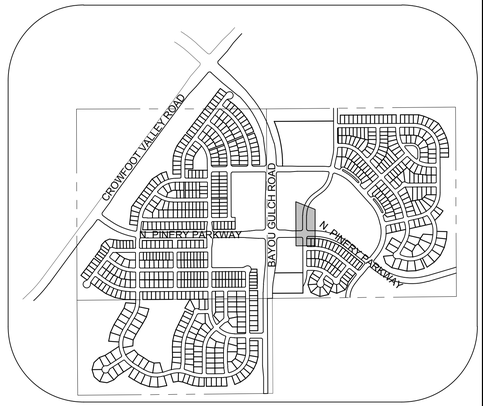
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
NORTH PINERY PARKWAY

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 27

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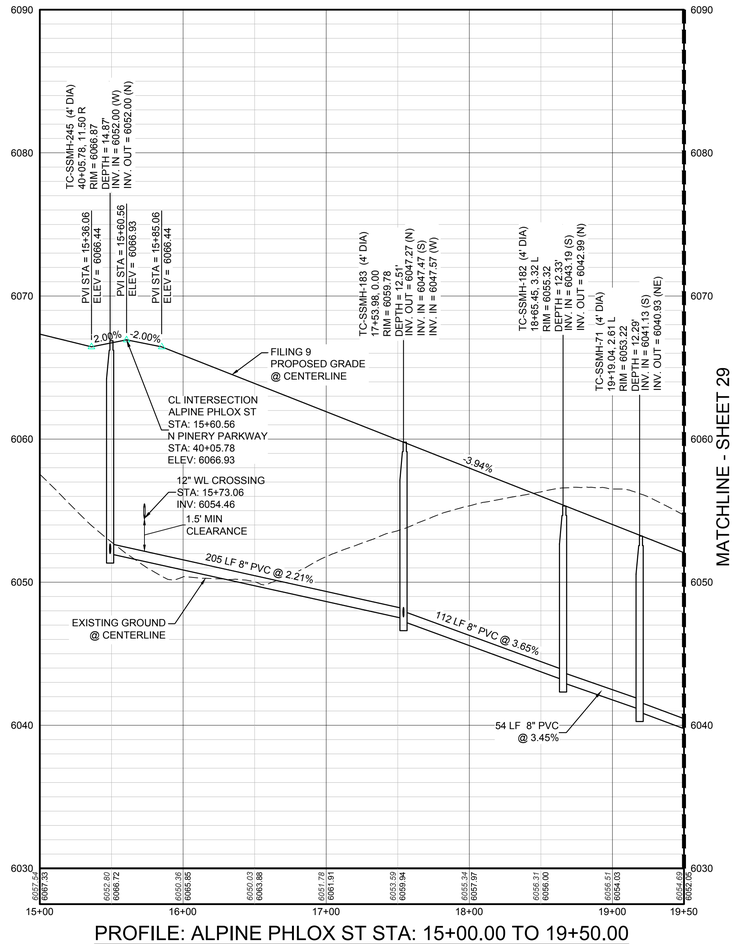






KEYMAP
N.T.S.

PLAN: ALPINE PHLOX STREET STA: 15+00.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ALPINE PHLOX ST STA: 15+00.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
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GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

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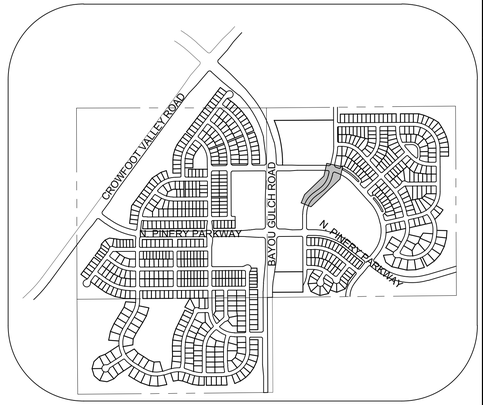
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ALPINE PHLOX STREET

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 28

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 ALPINE PHLOX STREET SANITARY.DWG, KACYW, 12/7/2017 9:32 PM

MATCHLINE - SEE SHEET 28

MATCHLINE - SEE SHEET 30

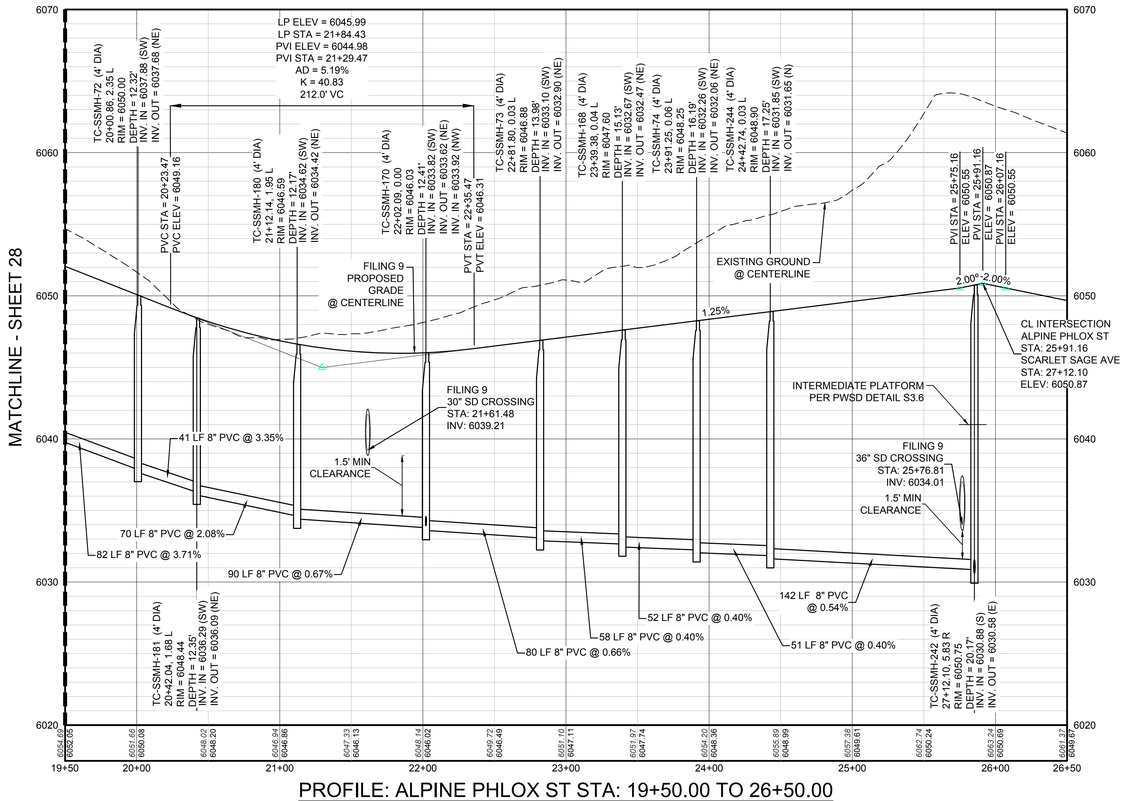


KEYMAP
N.T.S.

50 25 0 50 100

SCALE: 1" = 50'

PLAN: ALPINE PHLOX STREET STA: 19+50.00 TO 26+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ALPINE PHLOX ST STA: 19+50.00 TO 26+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

- BLOCK NUMBER (2)
- LOT TYPE (A)
- LOT NUMBER (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 (BO)
- PROPOSED AIR VALVE (AV)
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE (4 5 6)
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
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HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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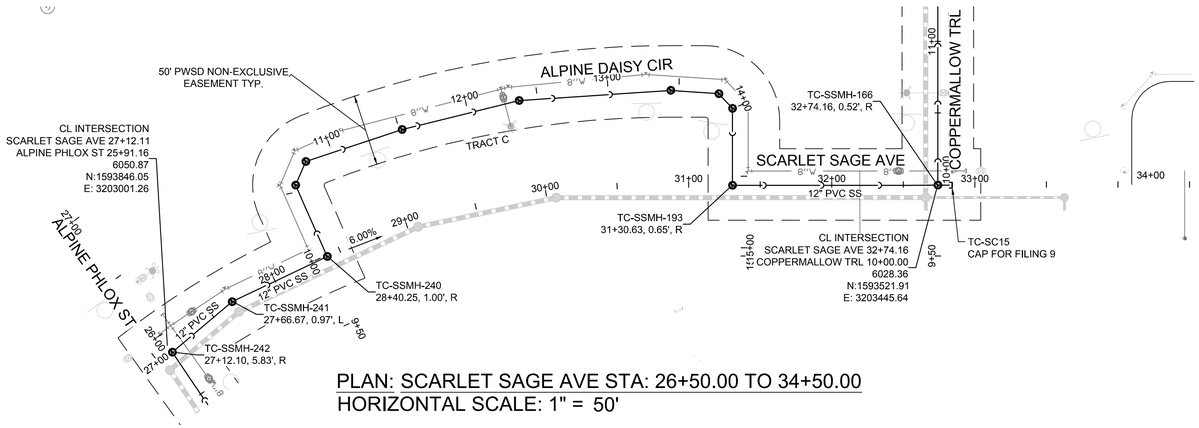
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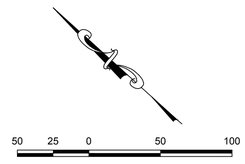
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ALPINE PHLOX STREET

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JF
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 29

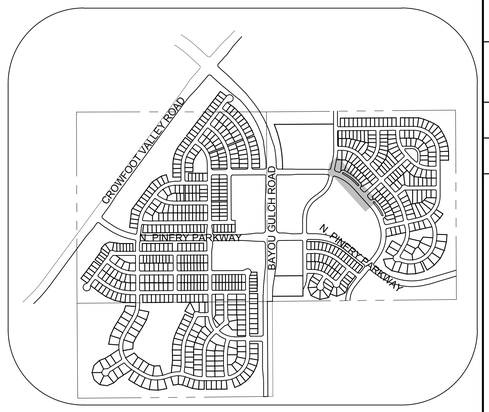
N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SHEET SETS\CD\SF1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 ALPINE PHLOX STREET SANITARY.DWG, KACYW, 12/7/2017 9:32 PM



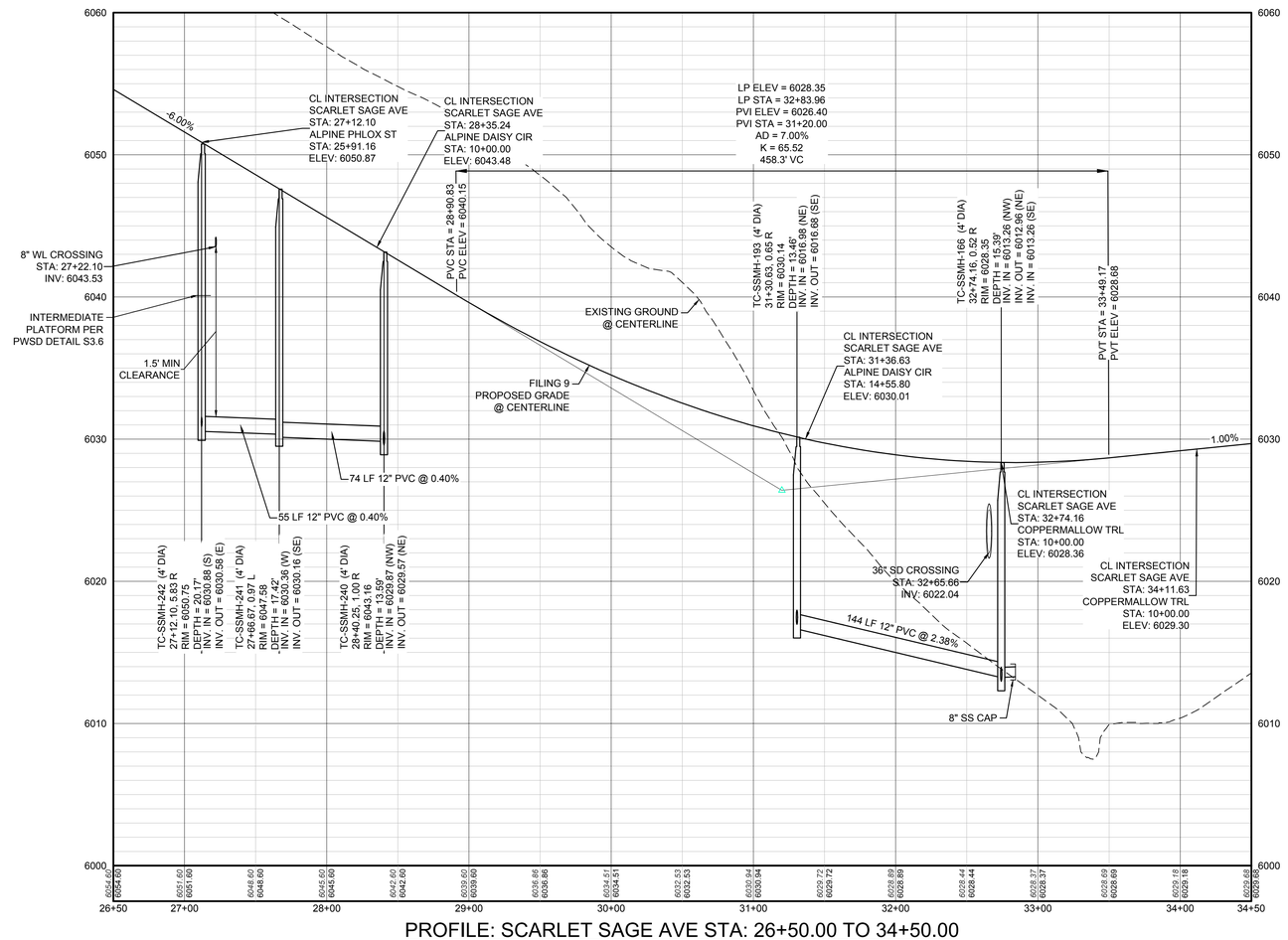
PLAN: SCARLET SAGE AVE STA: 26+50.00 TO 34+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: SCARLET SAGE AVE STA: 26+50.00 TO 34+50.00
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LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
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	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
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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
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GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
UNCC UTILITY NOTIFICATION CENTER OF COLORADO 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

No.	Revisions	Date	Init.	Appr.	Date

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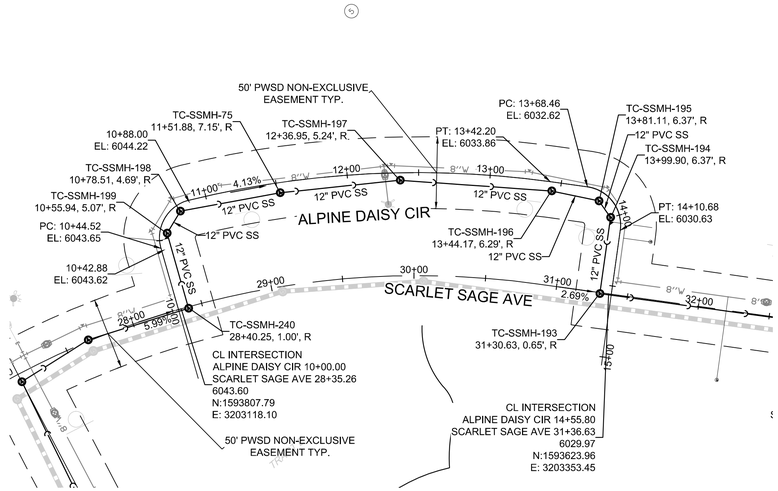
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CENTENNIAL, CO 80112

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

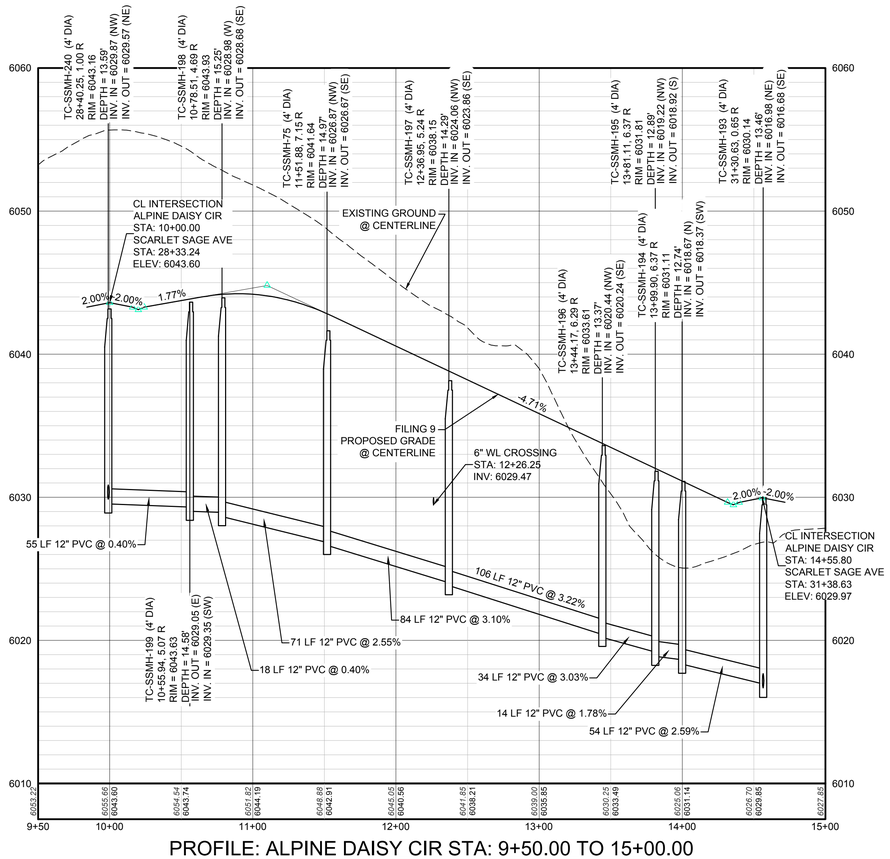
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DATE:	APRIL 2017		

SHEET NUMBER 30

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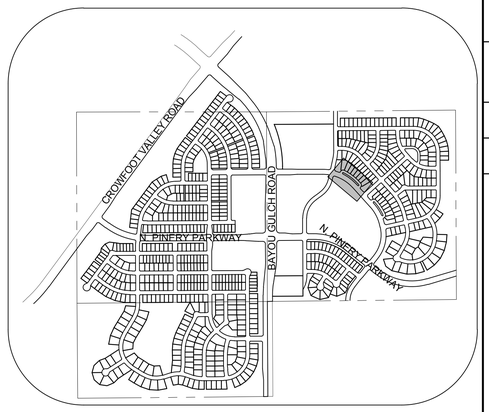
PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

50 25 0 50 100

SCALE: 1" = 50'



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
AV	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
S S S	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

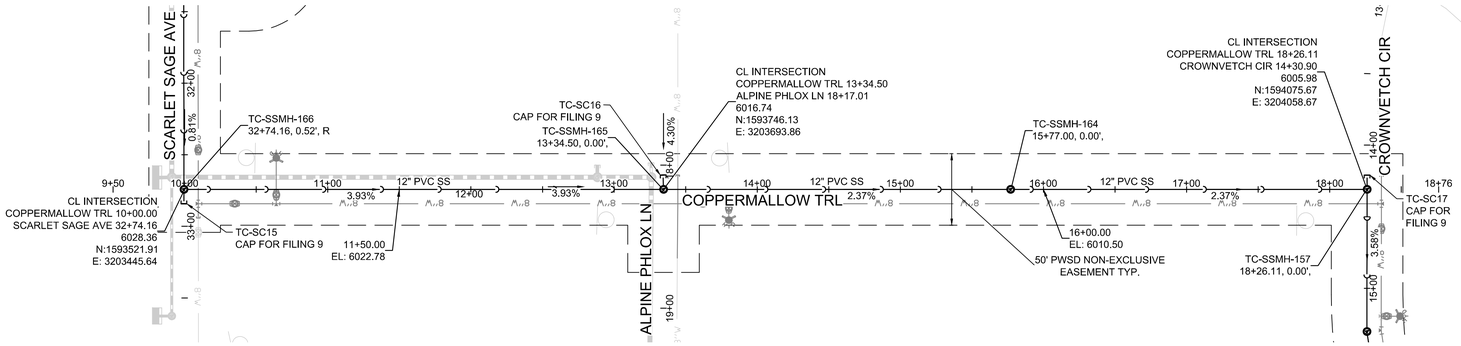
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Tel: (720) 482-9526
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CENTENNIAL, CO 80112

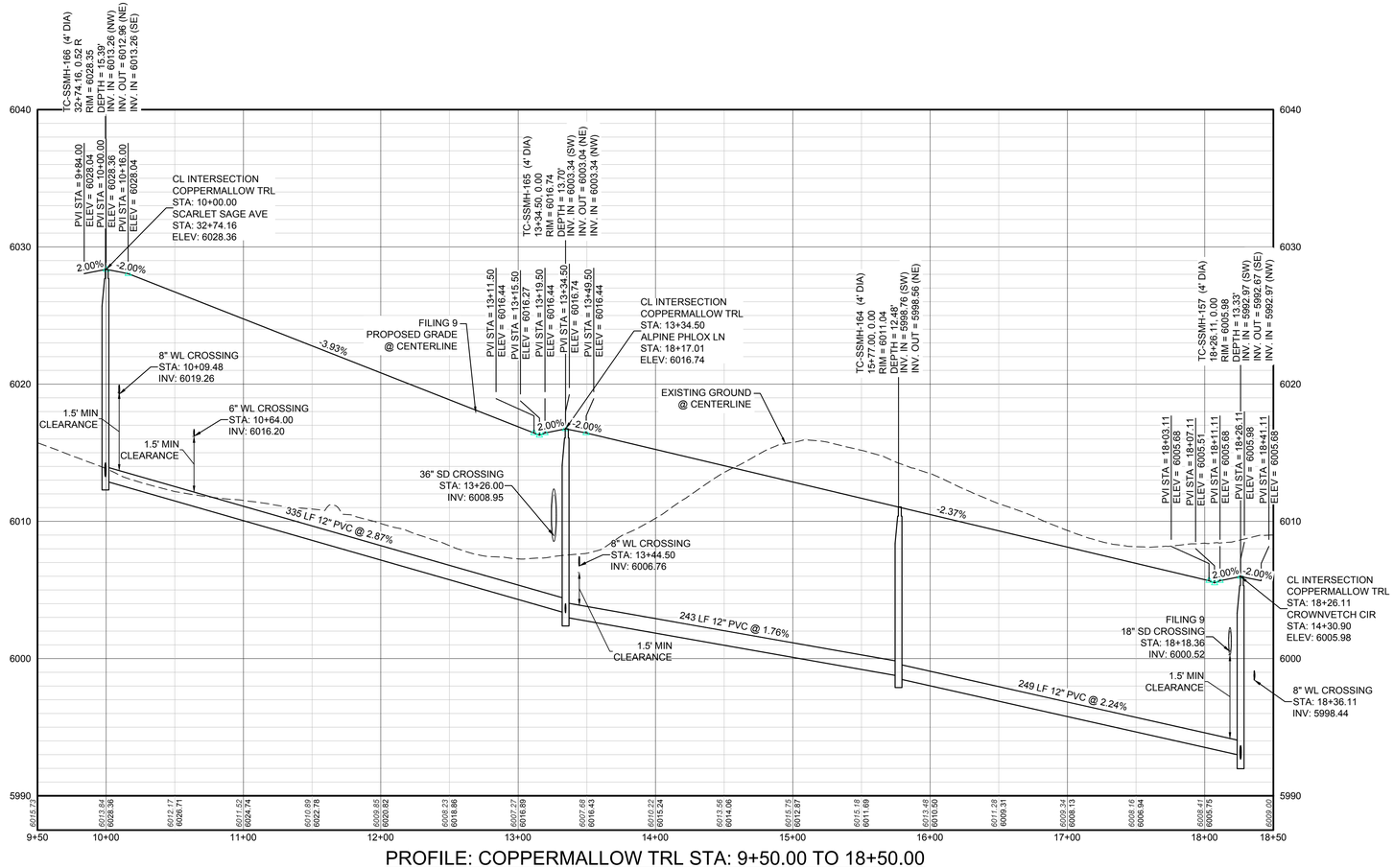
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE - SCARLET SAGE AVE AA

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 31

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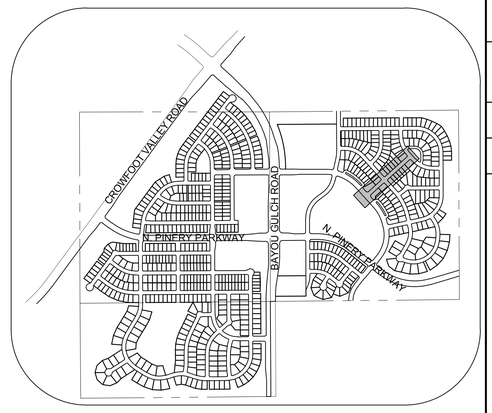


PLAN: COPPERMALLOW TRAIL STA: 9+50.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: COPPERMALLOW TRL STA: 9+50.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'





KEYMAP
N.T.S.

LEGEND

- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Date	Appr.	Date

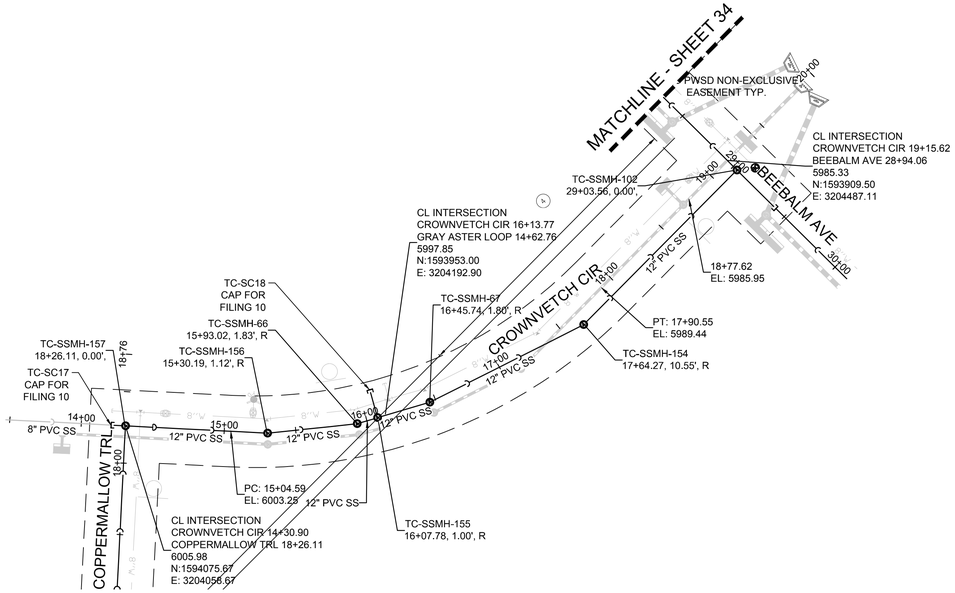
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Tel: (720) 482-9526
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CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

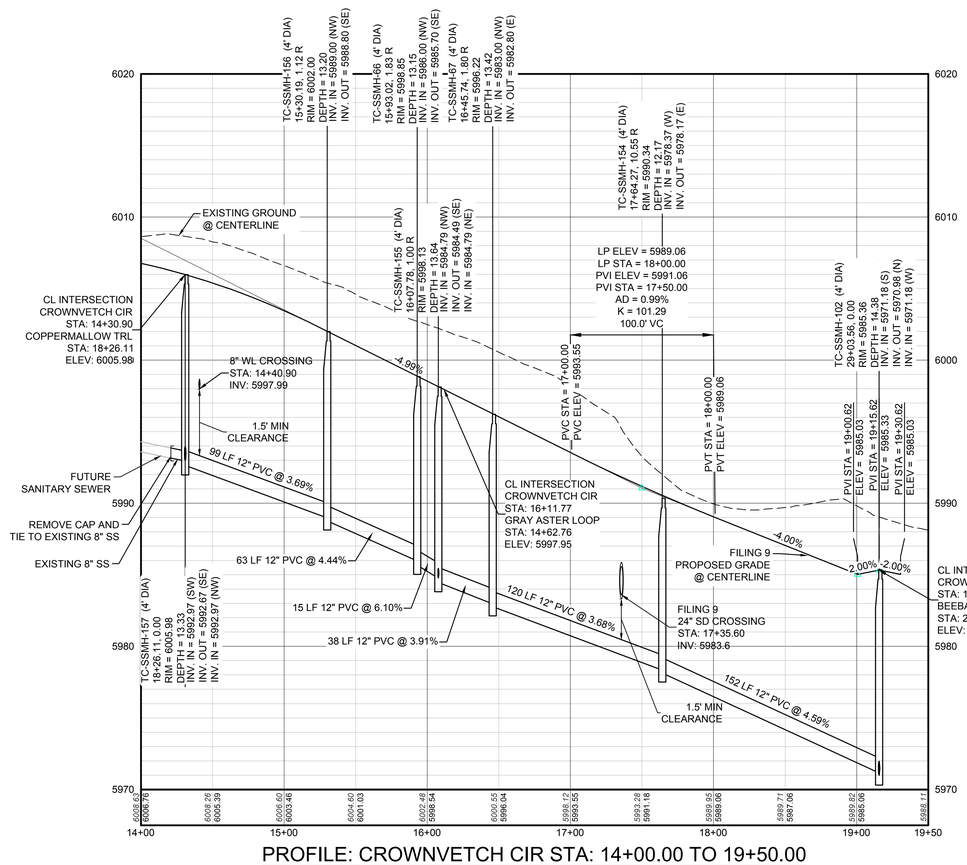
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
COPPERMALLOW TRAIL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 32

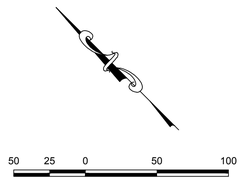
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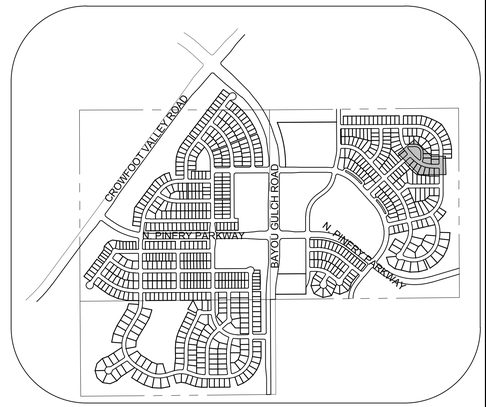
PLAN: CROWNVETCH CIRCLE STA: 14+00.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: CROWNVETCH CIR STA: 14+00.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



SCALE: 1" = 50'



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER		PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
AO	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
AV	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
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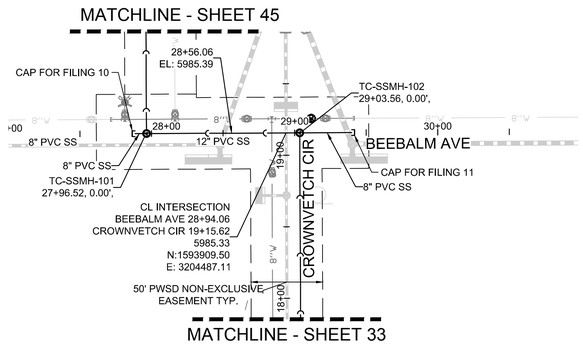
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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
CROWNVETCH CIRCLE

DRAWN BY:	JLR	SCALE:	AS SHOWN
CHECKED BY:	JJJ	FILE NO:	8130283701
DATE:	APRIL 2017		

SHEET NUMBER 33

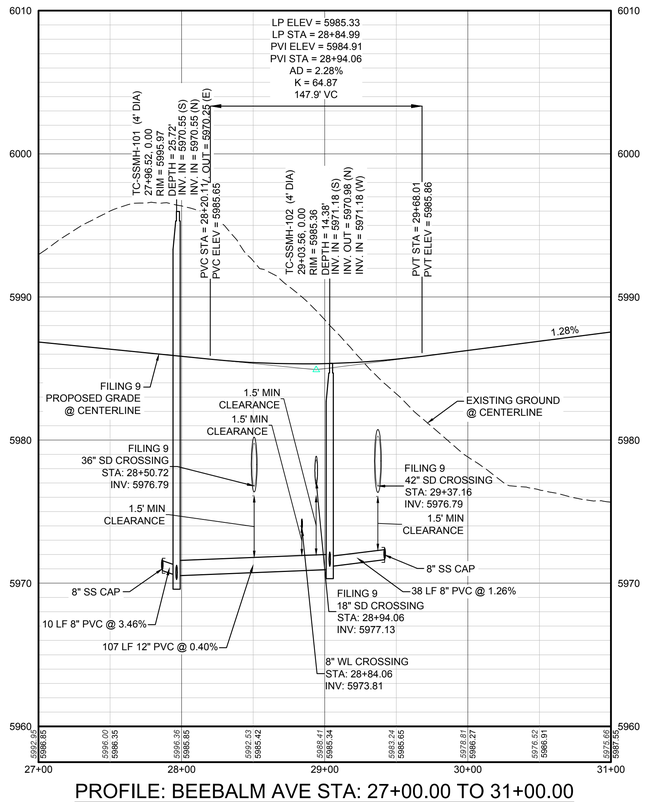
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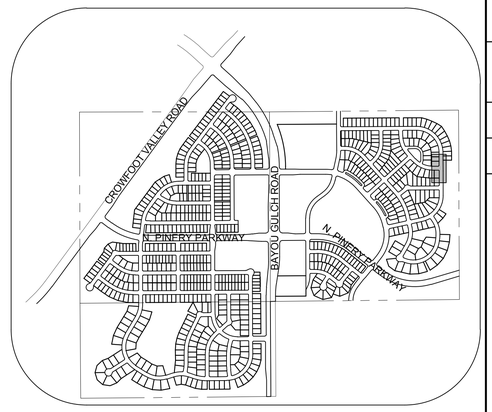
50 25 0 50 100

SCALE: 1" = 50'

PLAN: BEEBALM AVENUE STA: 27+00.00 TO 31+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: BEEBALM AVE STA: 27+00.00 TO 31+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
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	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
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	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

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HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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TWO WORKING DAYS
BEFORE YOU DIG
UNCC UTILITY NOTIFICATION CENTER OF COLORADO 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

No.	Revisions	Date	Init.	Appr.	Date

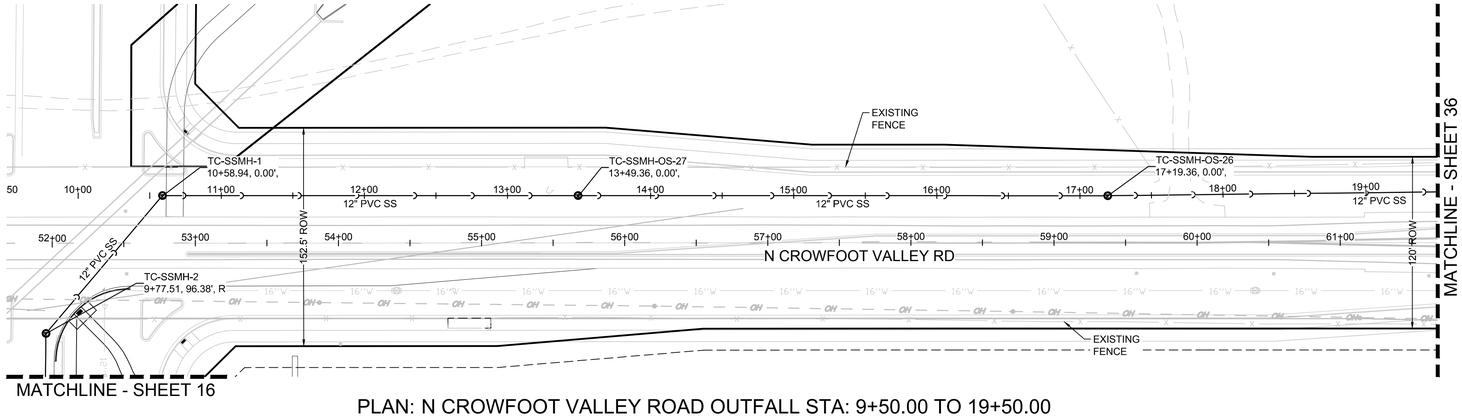
10333 E. Dry Creek Rd.
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Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

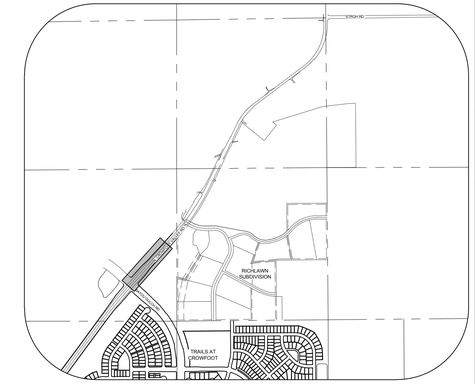
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BEEBALM AVENUE

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DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 34

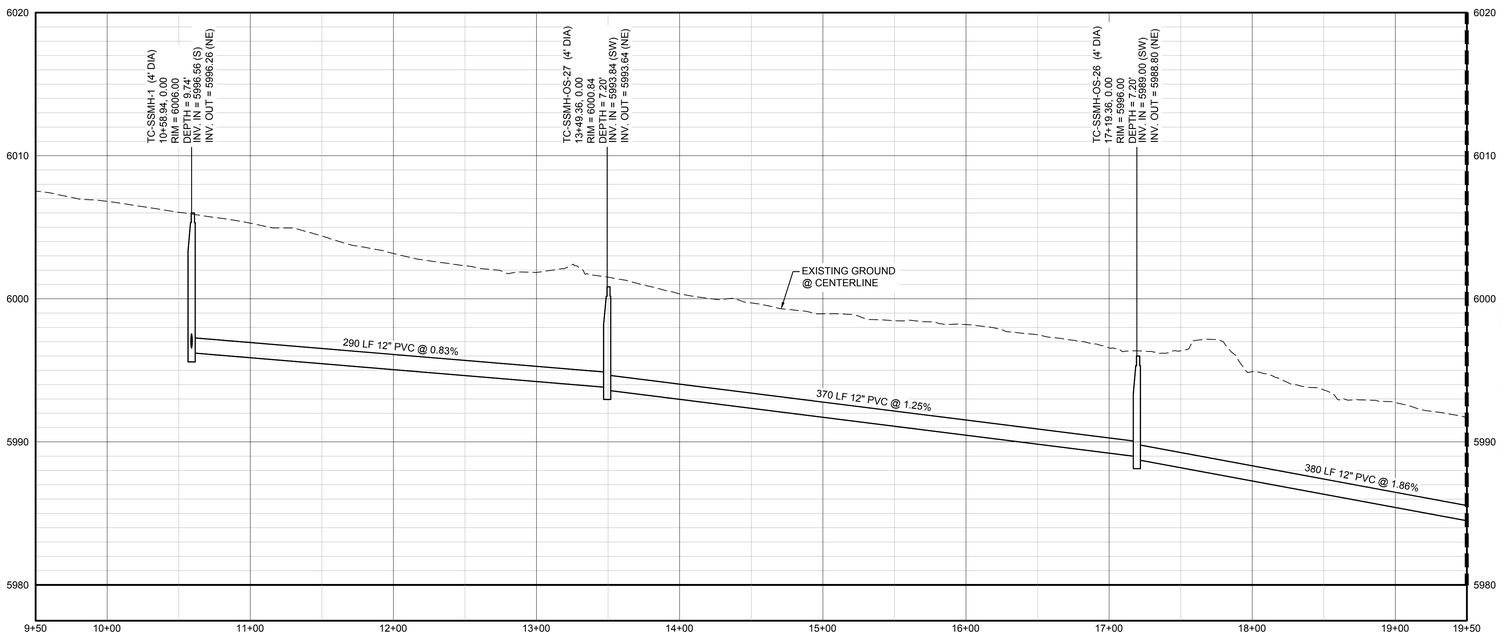
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PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

- BLOCK NUMBER
- LOT TYPE
- 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
- 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
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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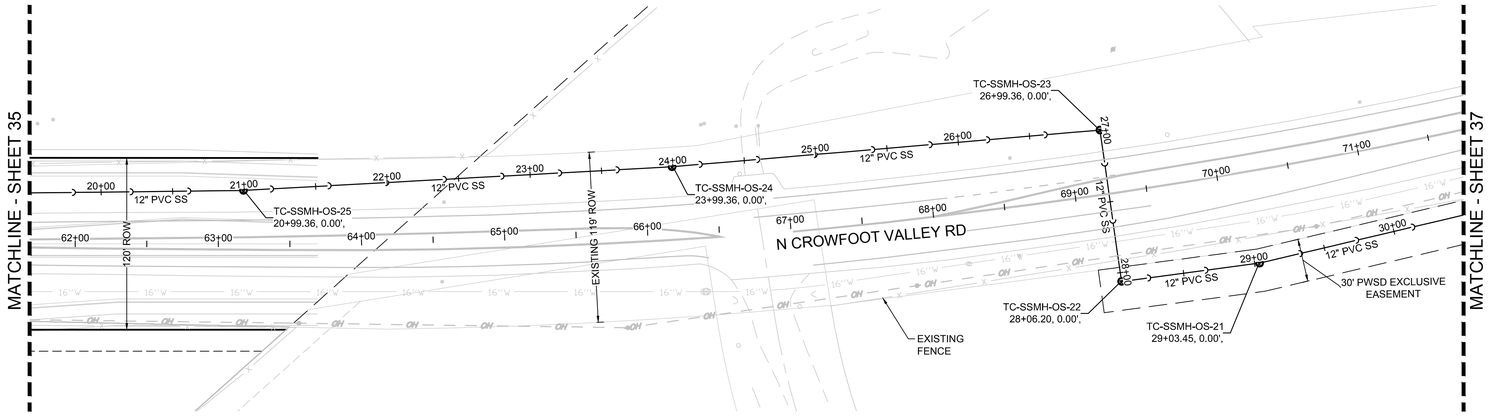
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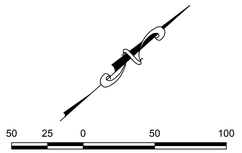
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7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SS N CROWFOOT VALLEY ROAD OUTFALL

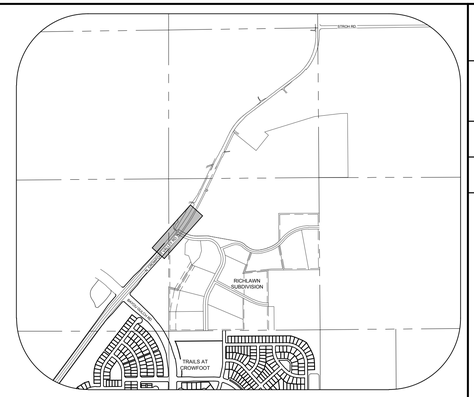
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CHECKED BY: JJJ
DATE: APRIL 2017
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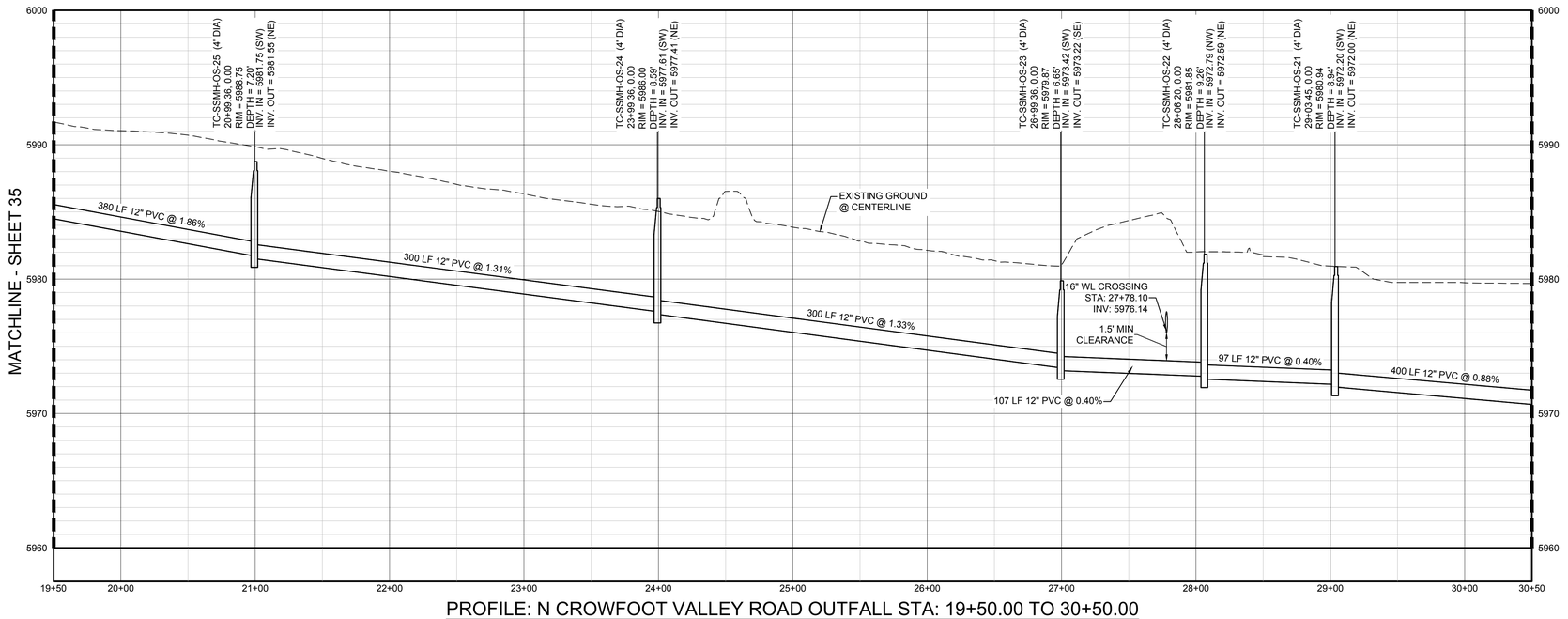


SCALE: 1" = 50'



KEYMAP
N.T.S.

PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 19+50.00 TO 30+50.00
HORIZONTAL: 1" = 50'



PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 19+50.00 TO 30+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

- BLOCK NUMBER (2)
- LOT TYPE (A)
- LOT NUMBER (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 (LO)
- PROPOSED AIR VALVE (AV)
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- (4)(5)(6) PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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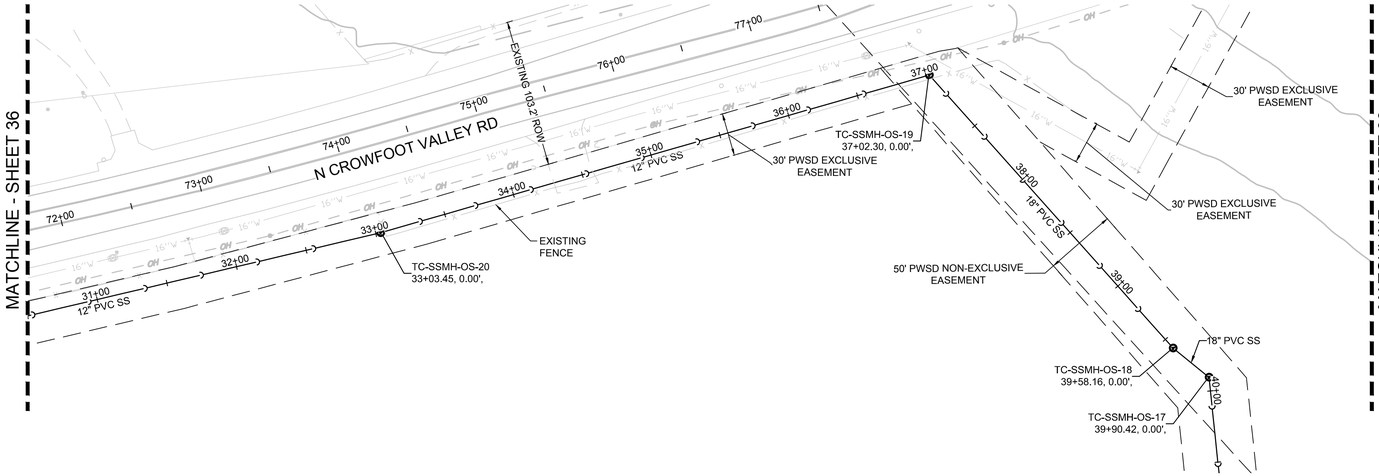
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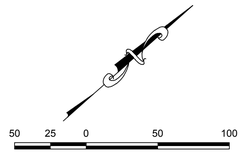
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SS N CROWFOOT VALLEY ROAD OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 36

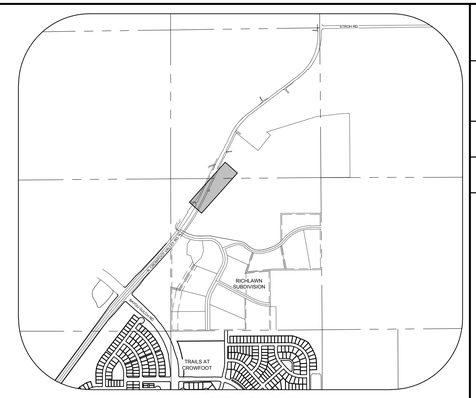
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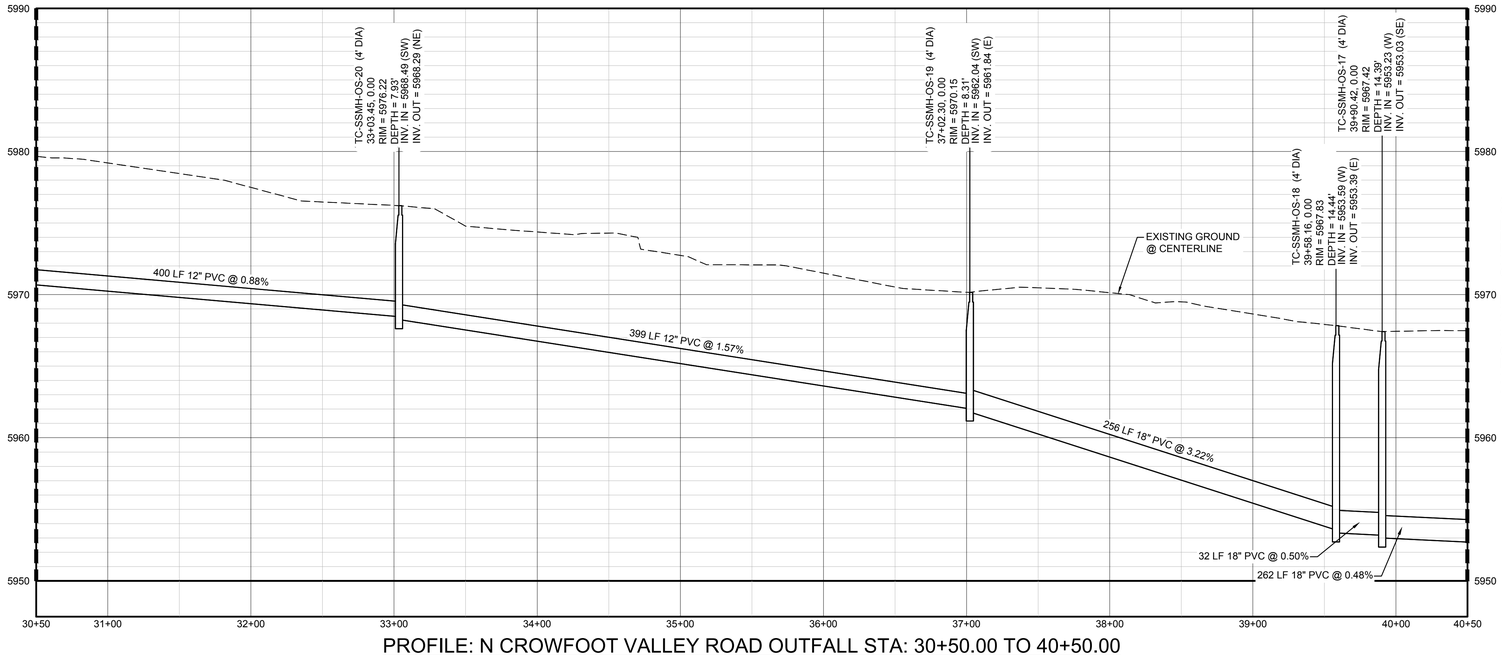
PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 30+50.00 TO 40+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 30+50.00 TO 40+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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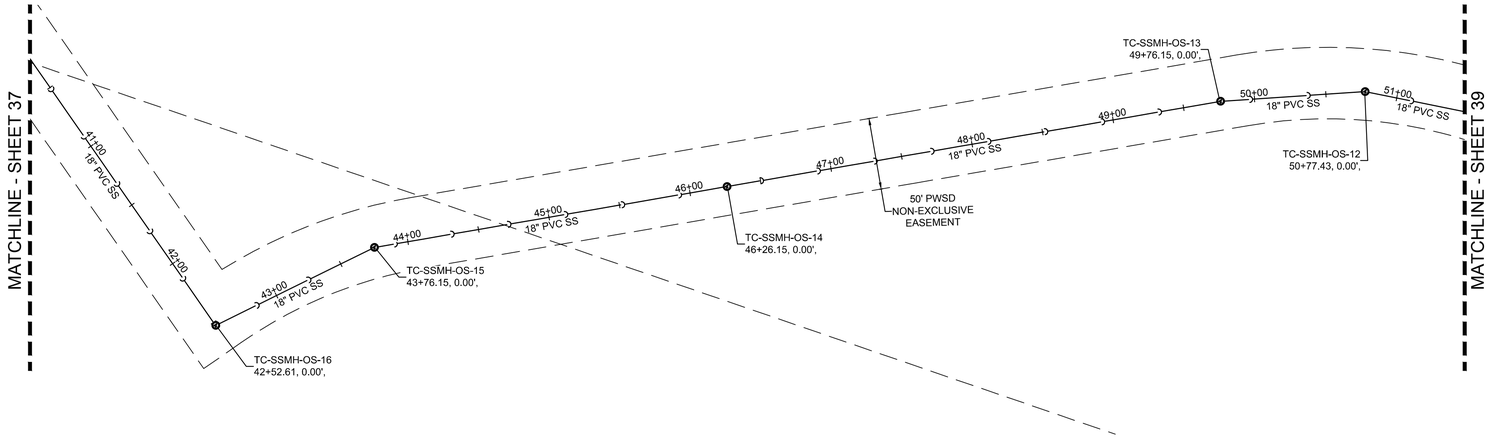
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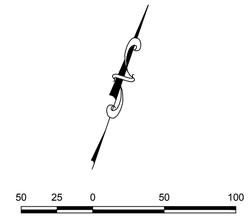
TRAILS AT CROWFOOT
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SANITARY SEWER PLAN AND PROFILE
SS N CROWFOOT VALLEY ROAD OUTFALL

SCALE: AS SHOWN
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DRAWN BY: KJD
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 37

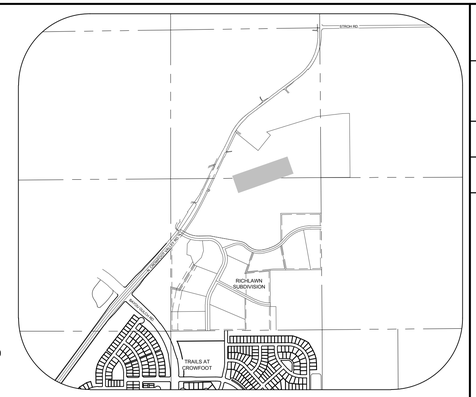
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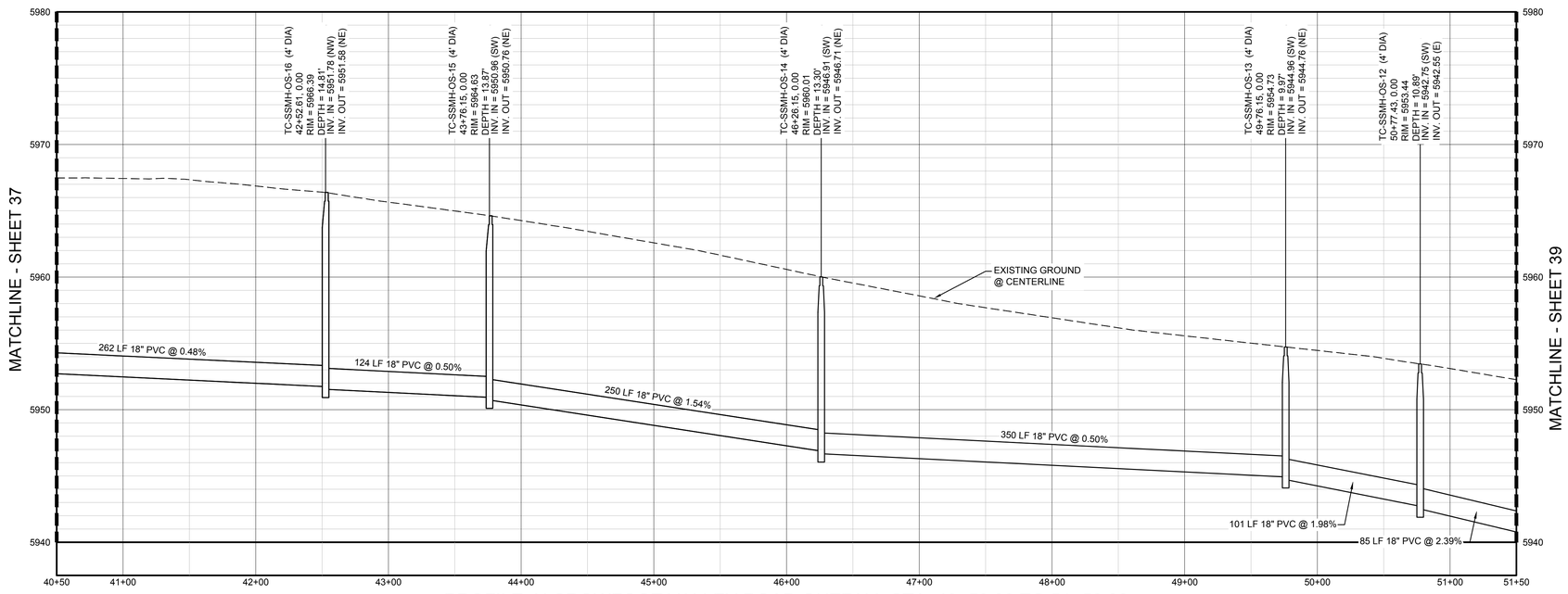
PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 40+50.00 TO 51+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 40+50.00 TO 51+50.00
HORIZONTAL: 1" = 50'
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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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	EXISTING TELEPHONE LINE

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FG	FINISHED GROUND	SL	SECTION LINE
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GV	GATE VALVE	STA	STATION
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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

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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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

No.	Revisions	Date	Init.	Appr.	Date

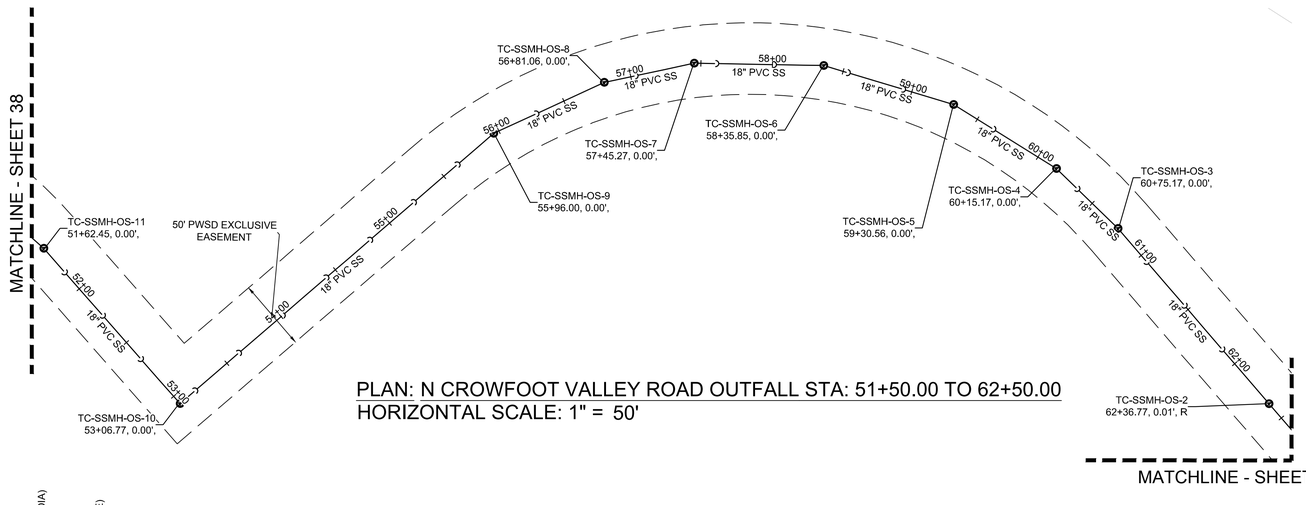
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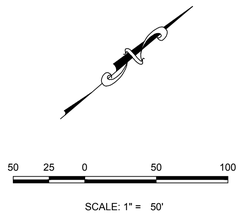
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SS N CROWFOOT VALLEY ROAD OUTFALL

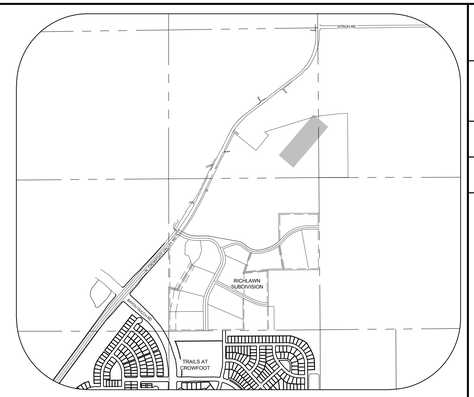
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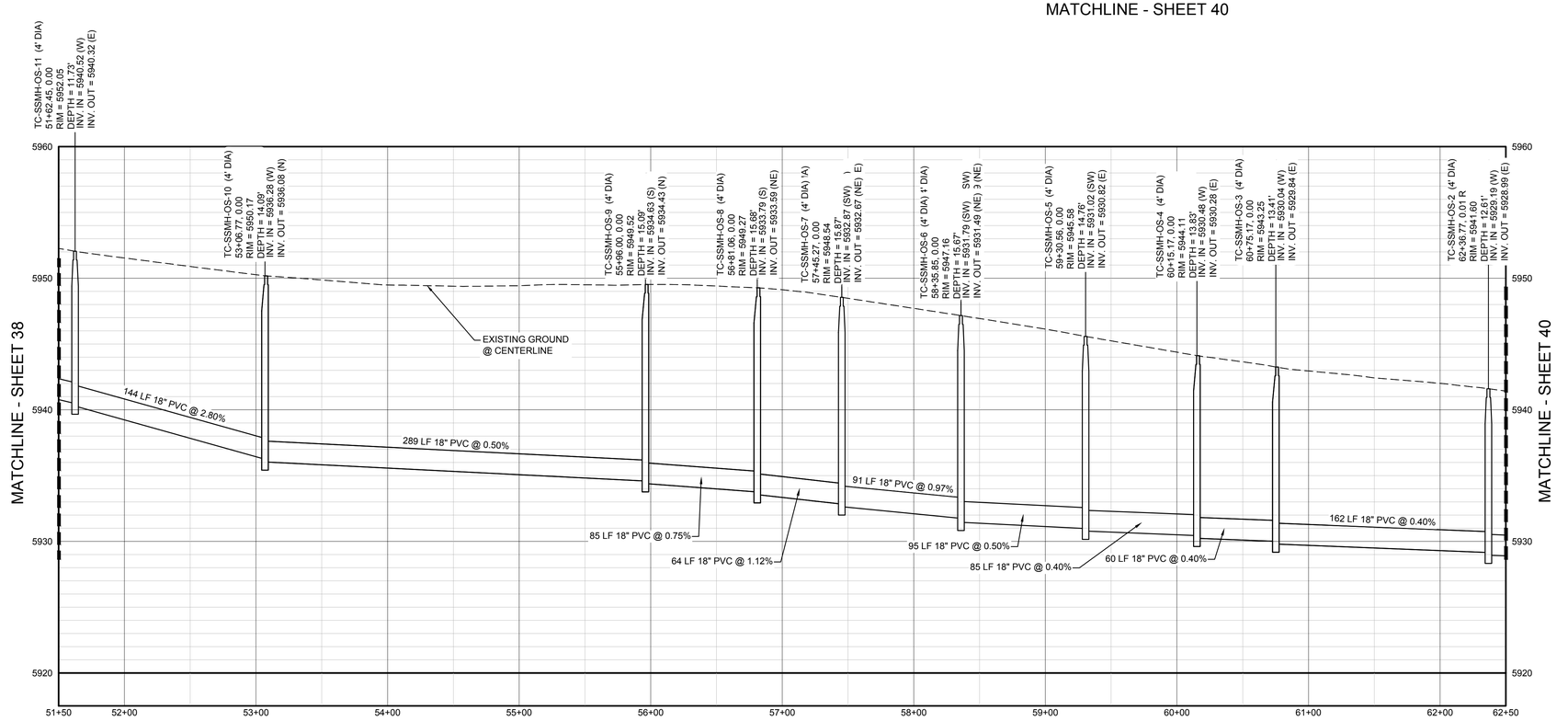


PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 51+50.00 TO 62+50.00
HORIZONTAL SCALE: 1" = 50'





KEYMAP
N.T.S.



PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 51+50.00 TO 62+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2) BLOCK NUMBER	PROPOSED RANGE POINT
(A) LOT TYPE	CENTERLINE
6 LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	1.0% PROPOSED SLOPE & DIRECTION
PROPOSED FIRE HYDRANT	5615 EXISTING 5' CONTOUR
PROPOSED WL FITTING WITH THRUST BLOCK	5616 EXISTING 1' CONTOUR
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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	8"W PROPOSED WATER LINE
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
10.00 EXISTING ELEVATION	FILING BOUNDARY
10.00 PROPOSED DESIGN ELEVATION	FO EXISTING FIBER OPTIC LINE
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ABBREVIATIONS

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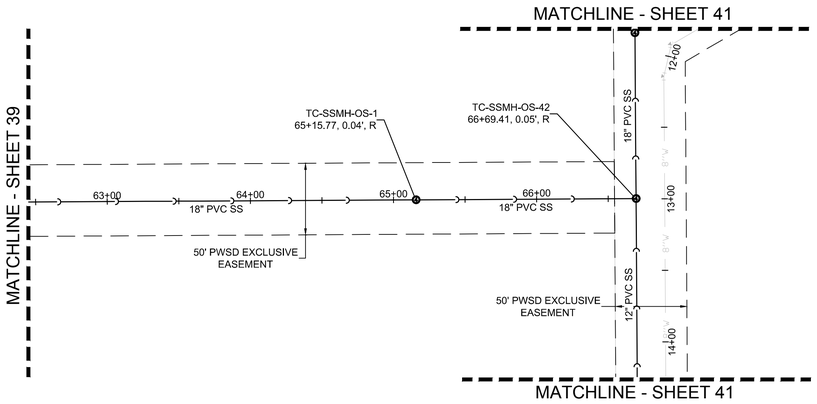
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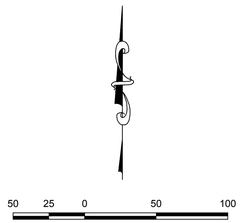
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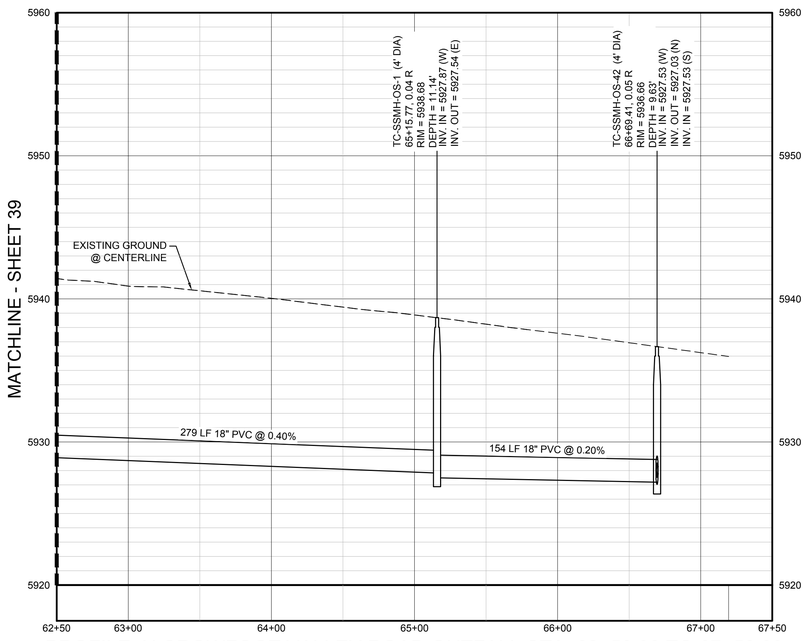
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CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 39

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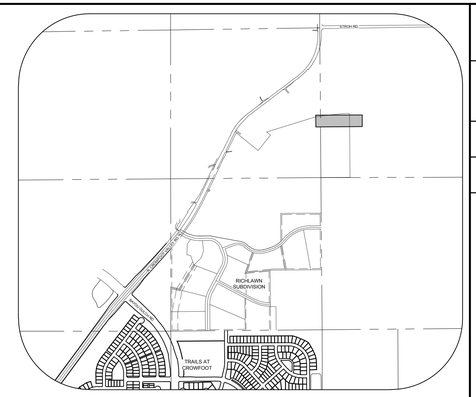


PLAN: N CROWFOOT VALLEY ROAD OUTFALL STA: 62+50.00 TO 67+50.00
HORIZONTAL SCALE: 1" = 50'





PROFILE: N CROWFOOT VALLEY ROAD OUTFALL STA: 62+50.00 TO 67+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
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	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
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	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

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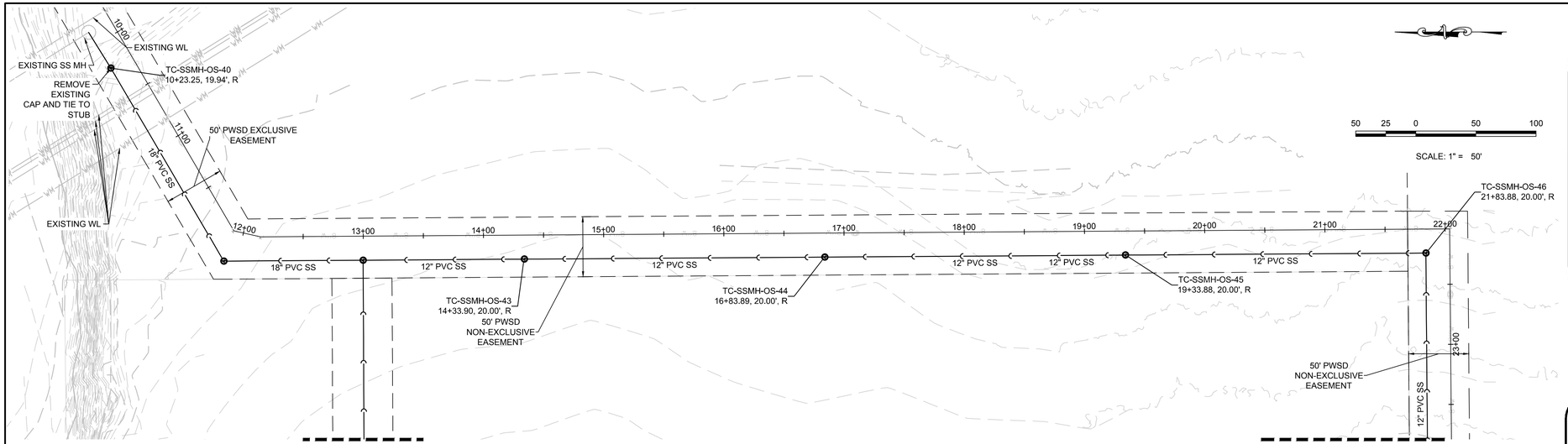
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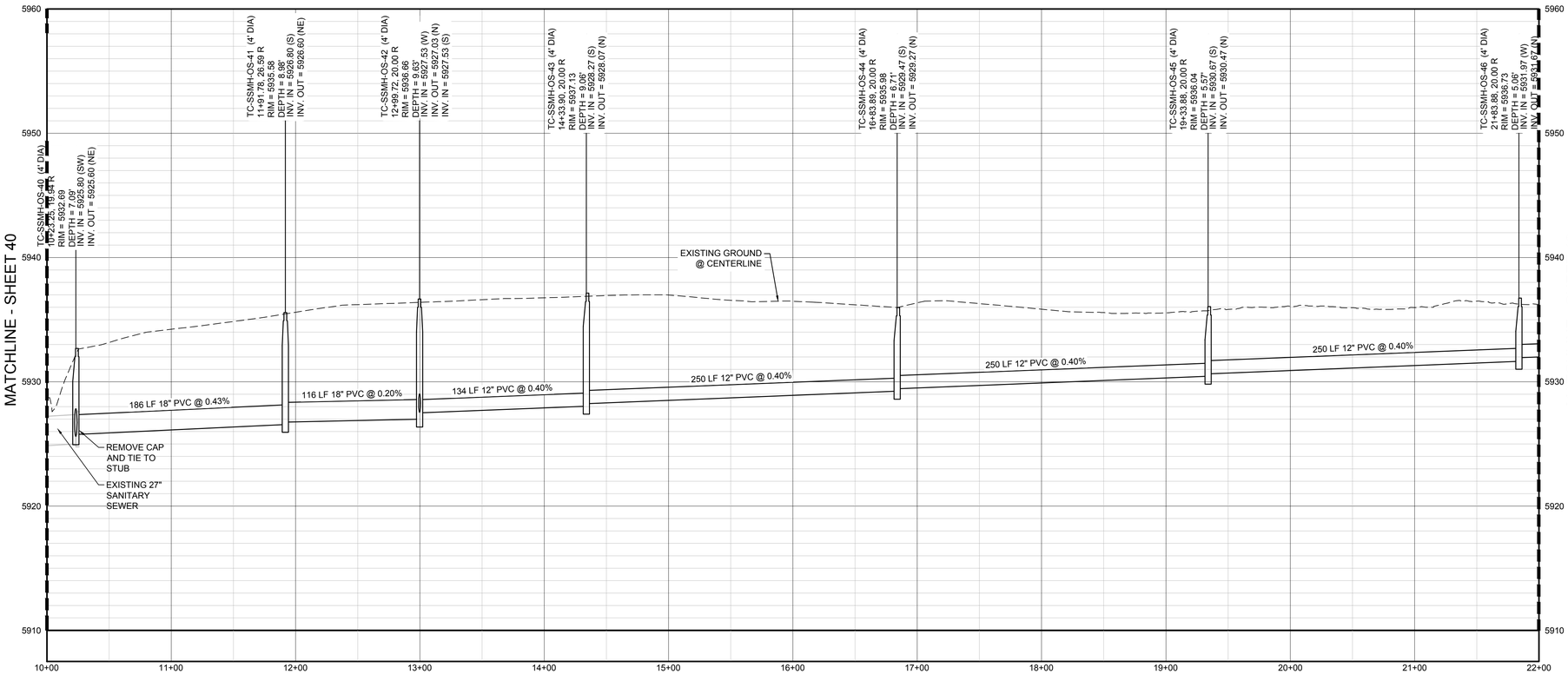
TRAILS AT CROWFOOT
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SANITARY SEWER PLAN AND PROFILE
SS N CROWFOOT VALLEY ROAD OUTFALL

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CHECKED BY:	JJ	FILE NO:	8130283701
DATE:	APRIL 2017	SHEET NUMBER	40

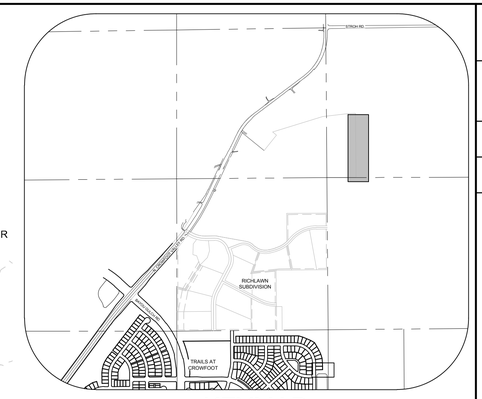
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PLAN: EAST OUTFALL STA: 10+00.00 TO 22+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: EAST OUTFALL STA: 10+00.00 TO 22+00.00
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KEYMAP
N.T.S.

LEGEND

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LOT NUMBER	RIGHT-OF-WAY
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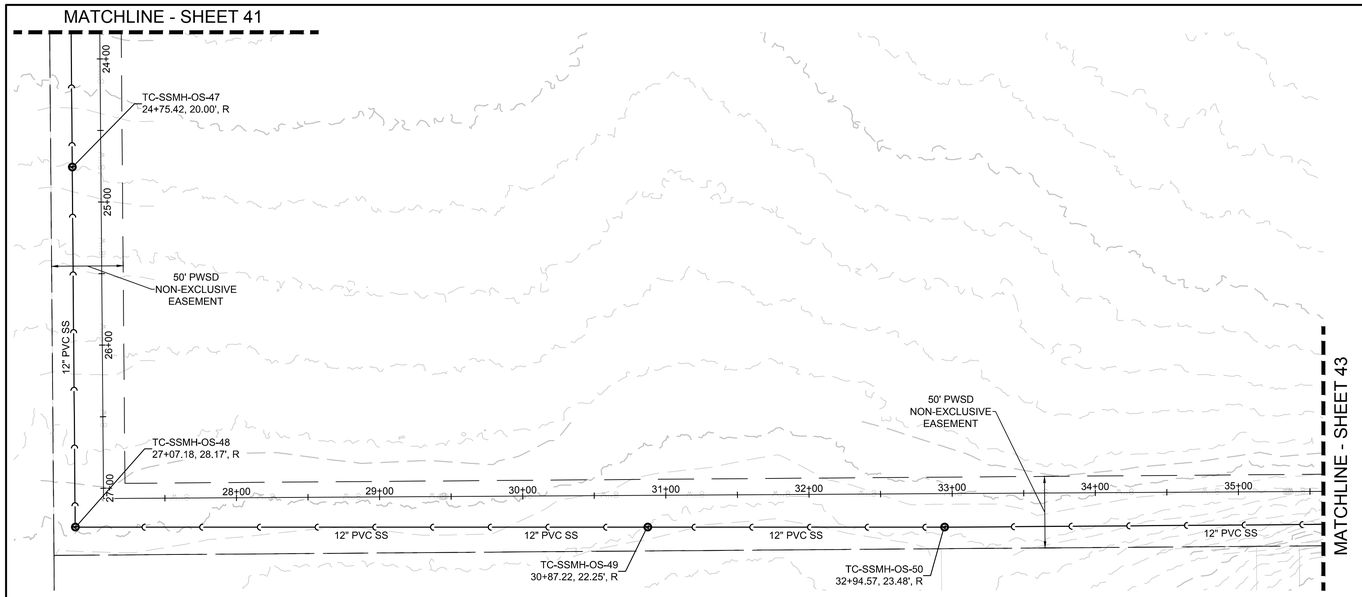
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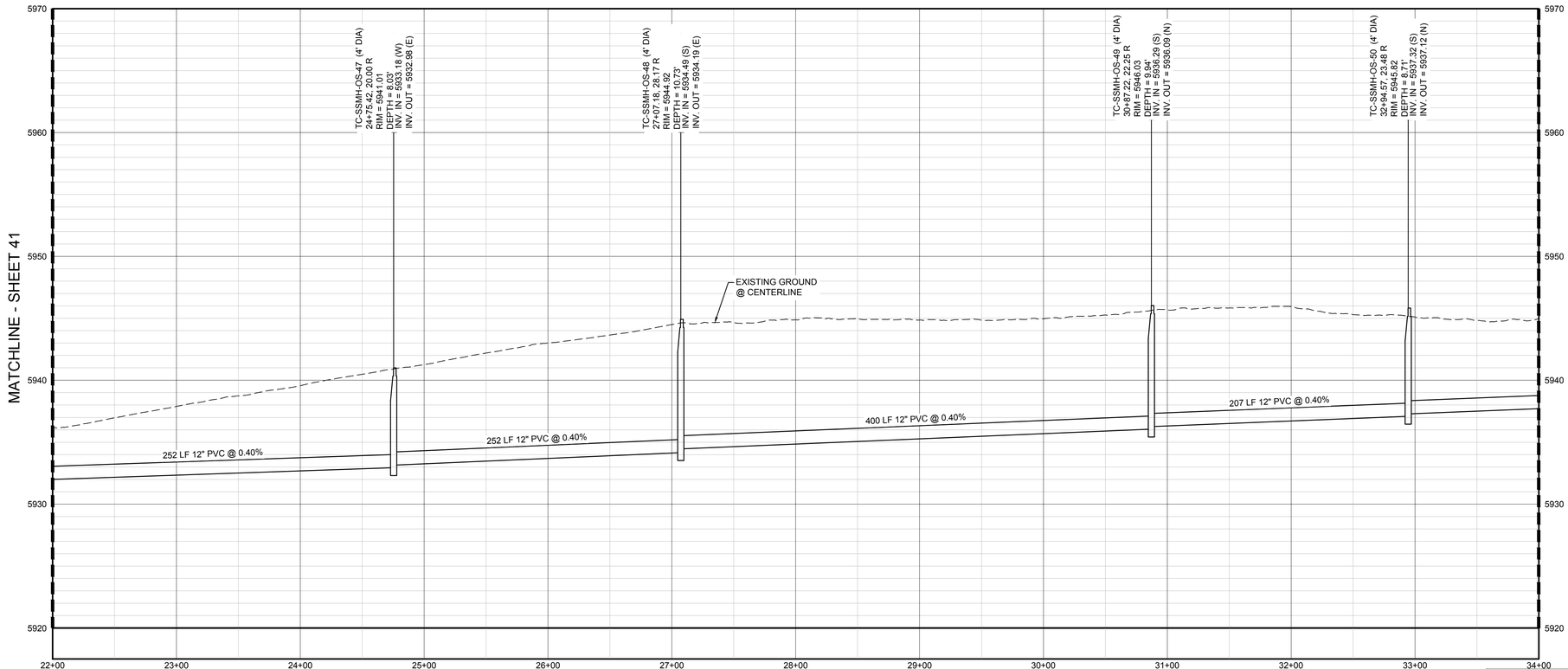
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SS EAST OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
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CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 41

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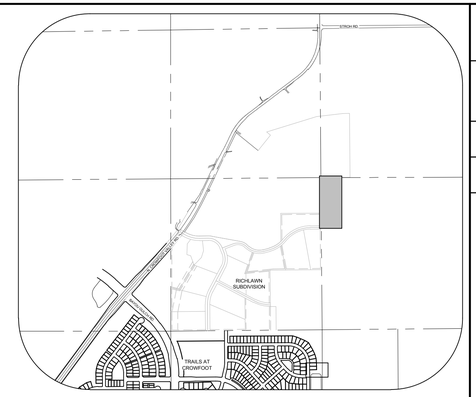
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50 25 0 50 100

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

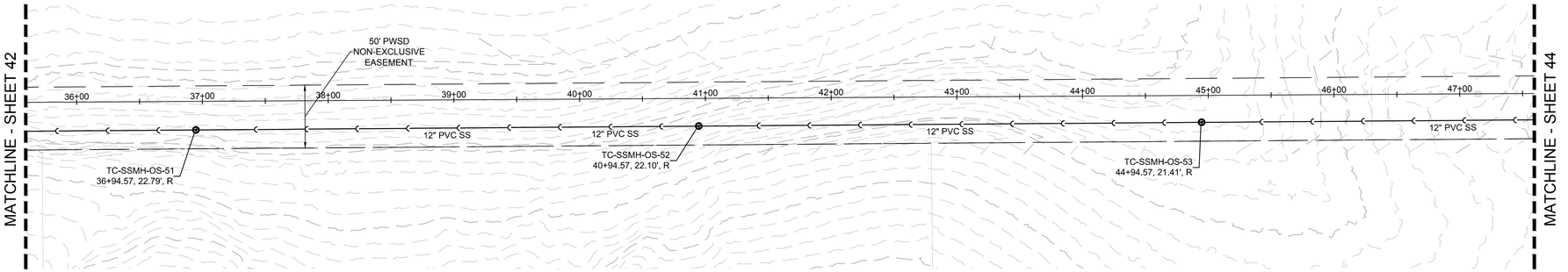
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SS EAST OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 42

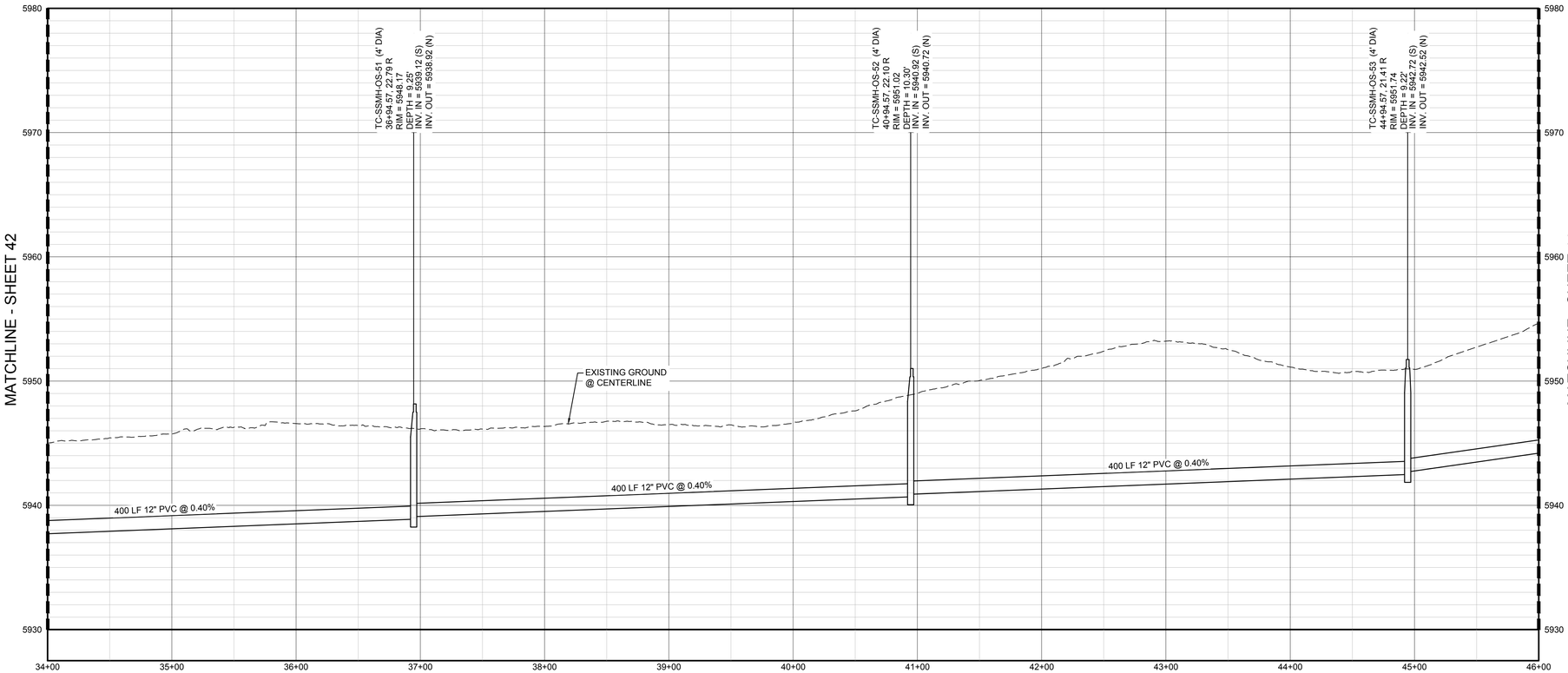
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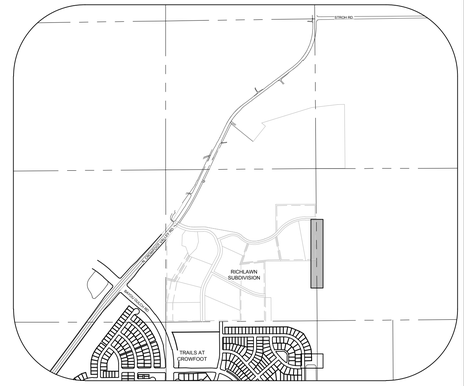
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SCALE: 1" = 50'

PLAN: EAST OUTFALL STA: 34+00.00 TO 46+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: EAST OUTFALL STA: 34+00.00 TO 46+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

LEGEND

(2) BLOCK NUMBER	PROPOSED RANGE POINT
(A) LOT TYPE	CENTERLINE
6 LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	PROPOSED SLOPE & DIRECTION (1.0%)
PROPOSED FIRE HYDRANT	5615 EXISTING 5' CONTOUR
PROPOSED WL FITTING WITH THRUST BLOCK	5616 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	8"W PROPOSED WATER LINE
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
10.00 EXISTING ELEVATION	FILING BOUNDARY
10.00 PROPOSED DESIGN ELEVATION	FO EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	OH EXISTING OVERHEAD POWER
(4)(5)(6) PROPOSED STORM DRAIN MANHOLE	TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
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HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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BENCHMARK
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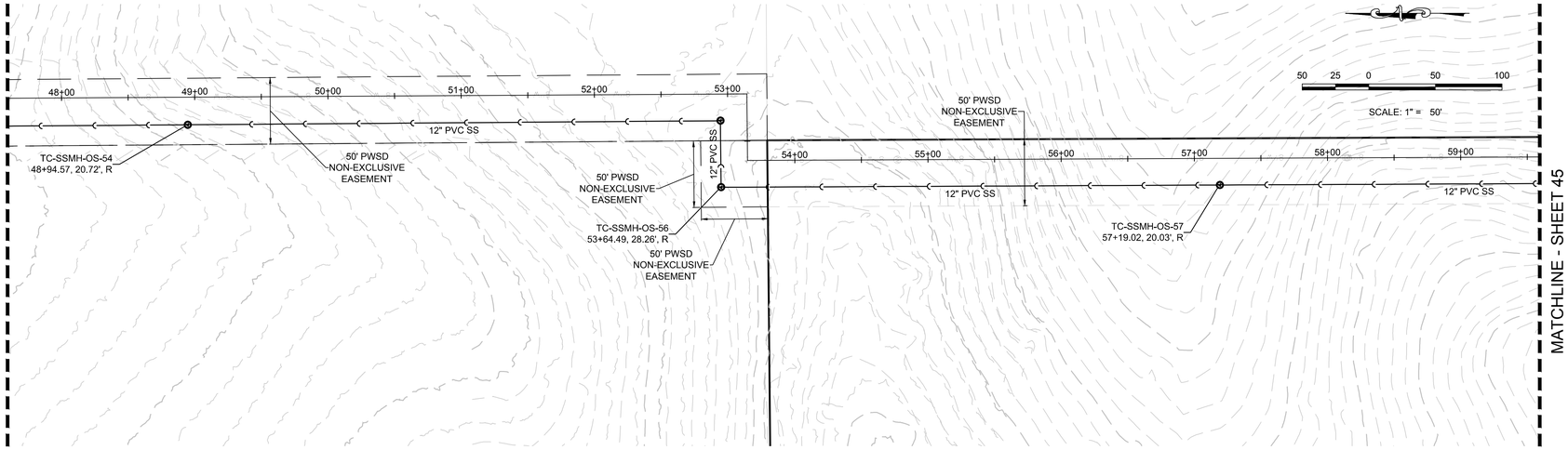
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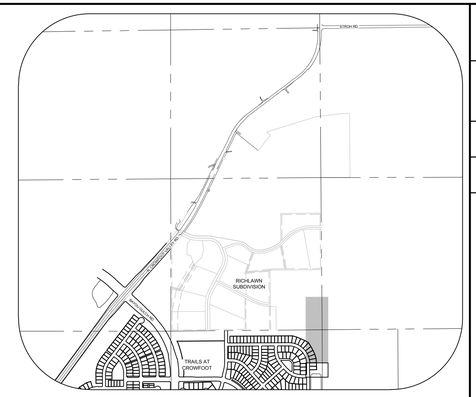
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7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SS EAST OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 43

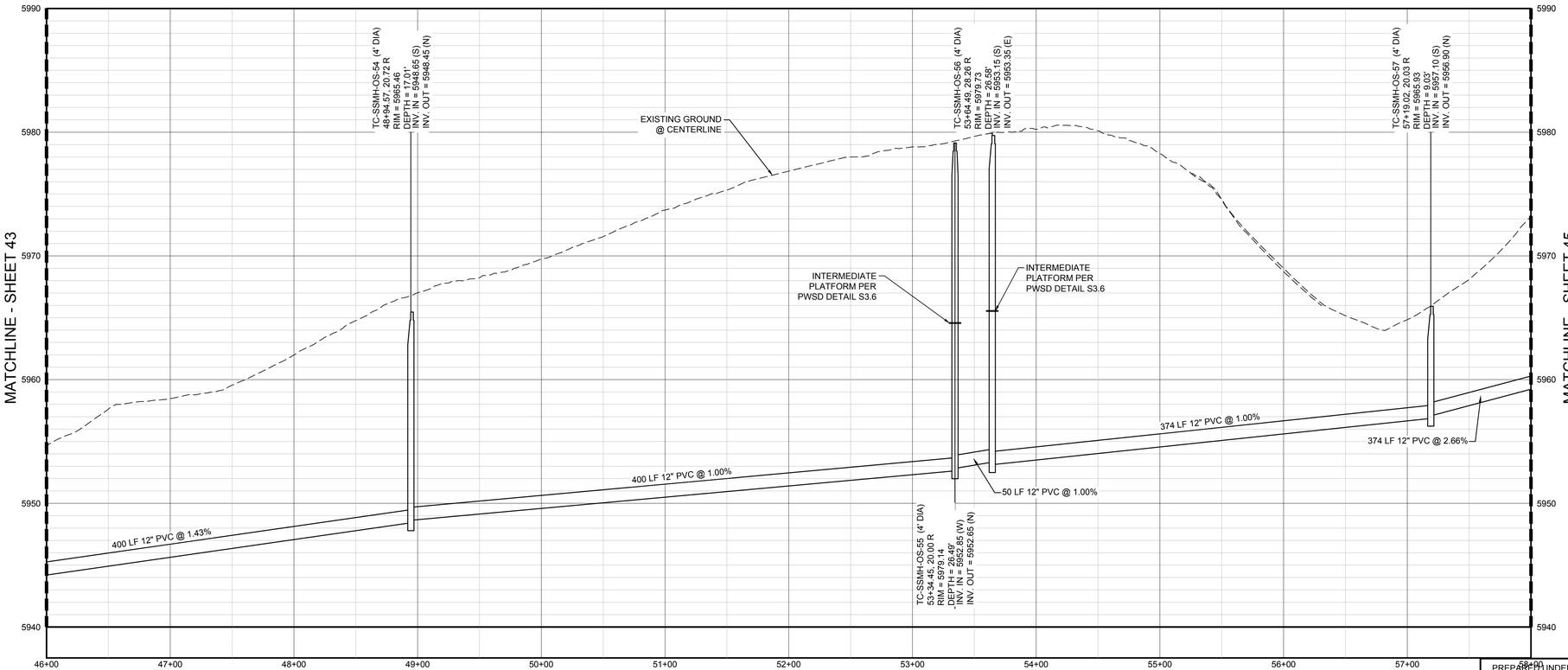
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KEYMAP
N.T.S.

PLAN: EAST OUTFALL STA: 46+00.00 TO 58+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: EAST OUTFALL STA: 46+00.00 TO 58+00.00
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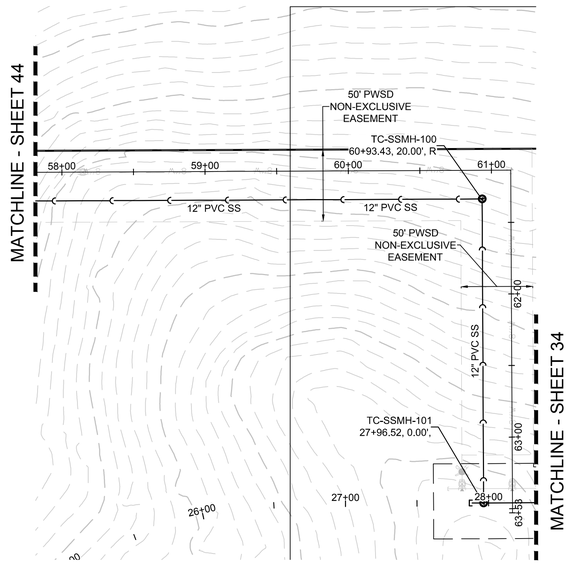
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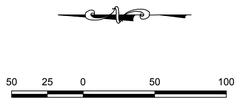
TRAILS AT CROWFOOT
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FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 44

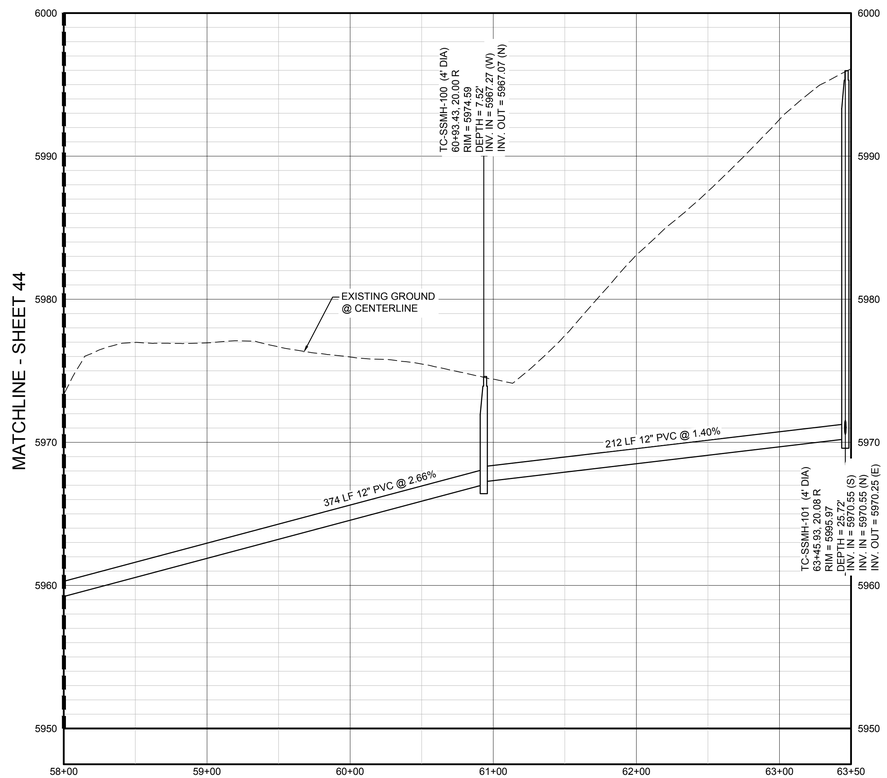
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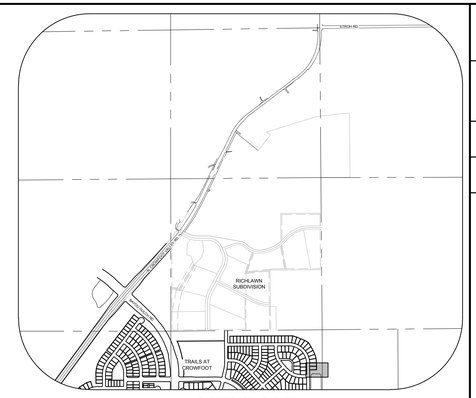
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KEYMAP
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LEGEND

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TRAILS AT CROWFOOT
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SS EAST OUTFALL

SCALE: AS SHOWN
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CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 45

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 OFFSITE SANITARY 2.DWG, BRIANW, 12/7/2017 10:00 PM

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 PRESSENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

SEWER

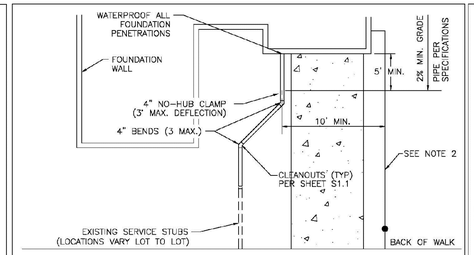
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3°.
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS 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 PERMANANTELY MARKED ON CURB FACE AS FOLLOWS:
   "X" FOR SANITARY SEWER SERVICE
   "V" FOR WATER SERVICES

PARKER WATER & SANITATION DISTRICT

DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES

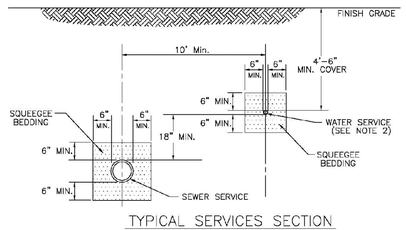
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APPROVED: PVR	01/02 10/16 1/08 1/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S1.1



TYPICAL SERVICES PLAN VIEW

NTS



TYPICAL SERVICES SECTION

NTS

NOTE

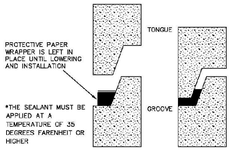
1. SEE SHEET S1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
2. TYPICAL WATER SERVICES SHOWN ON SHEET W1.2 IN WATER DETAILS.

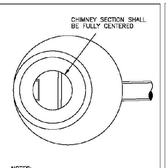
PARKER WATER & SANITATION DISTRICT

TYPICAL SEWER SERVICES

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

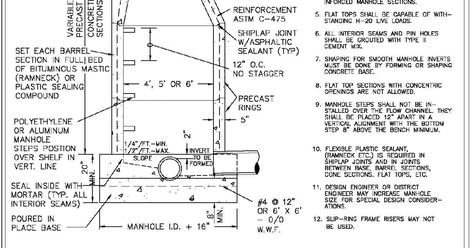
2016 REVISION — SHEET S1.2





NOTES:

1. RING/COVER AND CHIMNEY SHALL BE CENTERED ON CONCRETE RINGS W/RAMNECK.
2. FLAT TOP SECTIONS MAY BE USED IN LIEU OF ECCENTRIC MANHOLES WHEN SPECIFICALLY APPROVED BY DISTRICT ENGINEER.
3. FOR MANHOLE DEPTHS LESS THAN 4' FROM RIM TO TOP OF BENCH, VERTICAL MANHOLE BARRELS WITH PRECAST FLAT TOP SECTIONS ARE REQUIRED.
4. ALL PRECAST MANHOLE SECTIONS, FLAT TOPS, BARRELS, REDUCERS, ETC. SHALL CONFORM TO ASTM C-478, STANDARD SPECIFICATIONS FOR PRECAST RE-INFORCED MANHOLE SECTIONS.
5. FLAT TOPS SHALL BE CAPABLE OF WITH-STANDING H-20 LIVE LOADS.
6. ALL INTERIOR SEAMS AND PIN HOLES SHALL BE GROUTED WITH TYPE II CEMENT MIX.
7. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING CONCRETE BASE.
8. FLAT TOP SECTIONS WITH CONCENTRIC OPENINGS ARE NOT ALLOWED.
9. MANHOLE STEPS SHALL NOT BE IN-STALLED OVER THE FLOW CHANNEL. THEY SHALL BE PLACED 12" APART IN A VERTICAL ALIGNMENT WITH THE BOTTOM STEP 8" ABOVE THE BENCH MINIMUM.
10. FLEXIBLE PLASTIC SEALANT, (RAMNECK ETC.) IS REQUIRED IN SHIPLAP JOINTS AND IN JOINTS BETWEEN BASE, BARREL SECTIONS, CONE SECTIONS, FLAT TOPS, ETC.
11. DESIGN ENGINEER OR DISTRICT ENGINEER MAY INCREASE MANHOLE SIZE FOR SPECIAL DESIGN CONSIDER-ATIONS.
12. SLIP-RING FRAME RISERS MAY NOT BE USED.



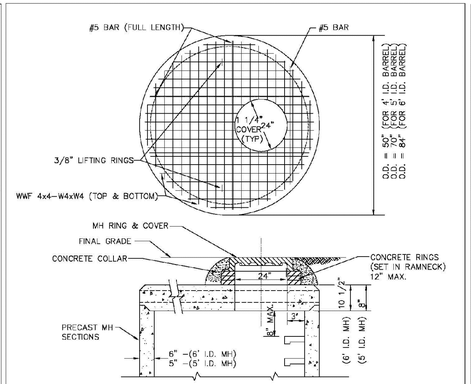
PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

PARKER WATER & SANITATION DISTRICT

PARKER MANHOLE ECCENTRIC CONE

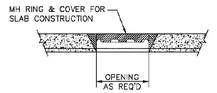
SCALE: NONE	DATE: 2/96
APPROVED: PVR	4/01 10/16 01/02 1/08 1/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S3.1



FLAT TOP SECTION w/ECCENTRIC OPENING

5' & 6' I.D. MANHOLES



SECTION

(NON-ADJUSTABLE RING & COVER TO BE CAST IN FLAT TOP)

ALTERNATE RING & COVER

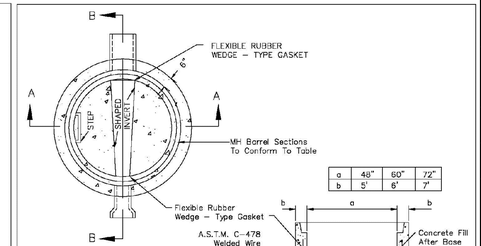
(TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED.)

PARKER WATER & SANITATION DISTRICT

PRECAST MANHOLE - 5' & 6' I.D. WITH ECCENTRIC CONE

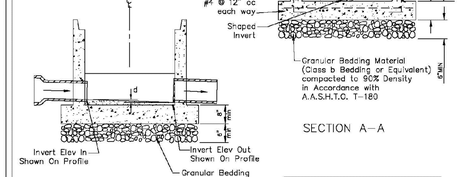
SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/02 01/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S3.3



SANITARY SEWER MH

PLAN (TYPE A)



SECTION B-B

SECTION A-A

NOTES:

1. Base slab shall be cast monolithic with the bottom riser section.
2. All pipe openings shall be formed with an approved flexible water stop gasket conforming to A.S.T.M. C-443 which shall be used to provide water - tight joint with no leakage around the installed pipe.
3. Manhole steps installed in bottom riser section shall conform to PWSD Standards and Specifications.
4. Shiplap joint on manhole barrel riser shall conform to PWSD Standards and Specifications; however as an alternate a special adapter section may be provided at the first joint in the bottom riser section which will accept the precast base section to PWSD standard manhole riser sections.
5. Grouted flow channels and inverts shall conform to PWSD Standards and Specifications. Manhole barrel min. diameter shall conform to table. Precast barrel sections to conform to A.S.T.M. C-478. All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
6. Stub outs shall extend 2'-0" min past manhole O.D. and be satisfactorily plugged.
7. Slope of bench = 1 1/2"/Ft.-Max 1/4"/Ft.-Min.
8. ΔH Invert drop thru Manhole (if > 18", outside drop MH req'd)

ATTENTION:

NOT TO BE USED WITHOUT EXPRESS PERMISSION OF DISTRICT ENGINEER.

PARKER WATER & SANITATION DISTRICT

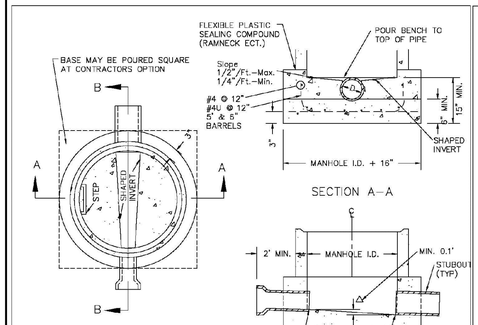
PRECAST MANHOLE BASE DETAIL

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

2016 REVISION — SHEET S3.4

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

No.	Revisions	Date	Init.	Date	Appr.	Date



SANITARY SEWER MH

PLAN (TYPE A)

SECTION A-A

SECTION B-B

NOTES:

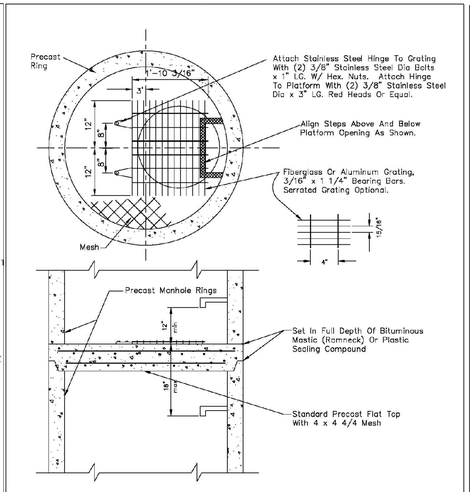
1. Manhole barrel min. thickness to be 5".
2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
3. The manhole steps shall conform to District Standards and Specifications.
4. Precast sections to conform to A.S.T.M C-478.
5. All dead-end manholes, that 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 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: NONE	DATE: 2/96
APPROVED: PVR	01/02 01/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S3.5



NOTES:

1.1 Maximum distance between platforms shall be 15' vertically.

1.2 All hardware used inside a manhole shall be stainless steel.

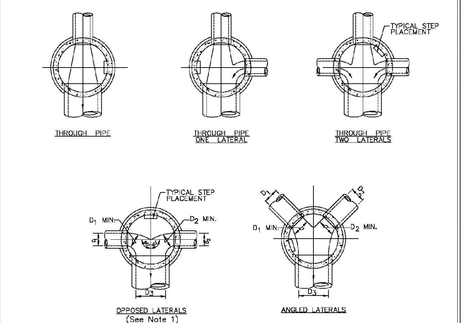
1.3 Manholes over 20' deep shall submit structural calculations on base and wall sizing.

PARKER WATER & SANITATION DISTRICT

INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH

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

2016 REVISION — SHEET S3.6



NOTES:

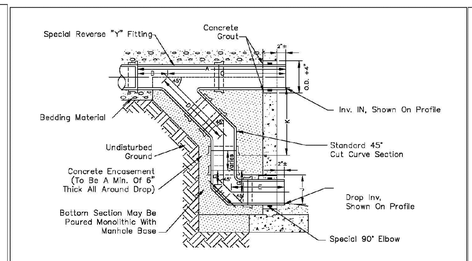
1. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT

TYPICAL BASE CHANNELIZATION DETAILS

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

2016 REVISION — SHEET S3.7



PIPE I.D.	A	B	C	D	E	F	G	H	J	K	ΔH
8"	60°	30°	24"	12"	12"	+ 1/16" - 1/8"	8"	+ 3/16" - 1/16"	16"	15 7/8"	37 3/16"
15"&12"	60°	30°	24"	12"	12"	+ 1/16" - 1/8"	8"	+ 3/16" - 1/16"	16"	18 1/4"	38 3/16"
18"	60°	30°	24"	12"	12"	+ 1/16" - 1/8"	8"	+ 3/16" - 1/16"	16" 18 3/4"	21" 21 1/8"	39 3/16" 39 5/16"
24"	60°	30°	24"	12"	12"	+ 1/16" - 1/8"	8"	+ 3/16" - 1/16"	16" 18 3/4"	27 1/8" 27 1/4"	45 3/16" 45 5/16"

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.

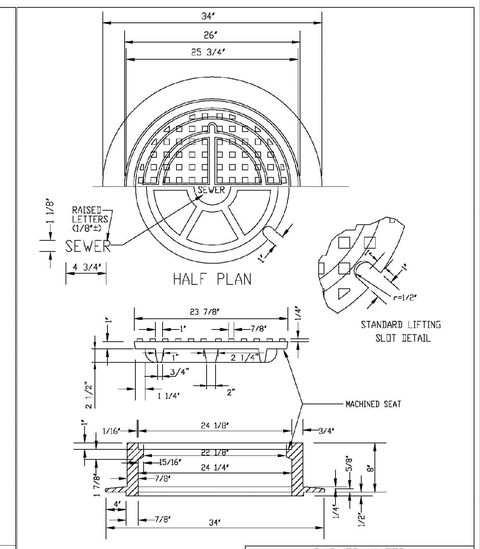
OUTSIDE DROP MANHOLE CONSTRUCTION

PARKER WATER & SANITATION DISTRICT

OUTSIDE DROP MANHOLE CONSTRUCTION

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

2016 REVISION — SHEET S3.8



NOTE:

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

PARKER WATER & SANITATION DISTRICT

24" DIAMETER RING AND COVER

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

2016 REVISION — SHEET S3.9

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

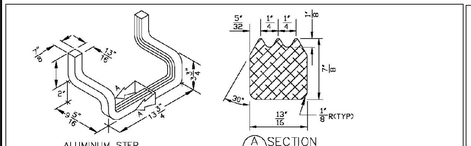
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS 1

SCALE: AS SHOWN	FILE NO: 8130283701
DRAWN BY: RRR	
CHECKED BY: JJJ	
DATE: APRIL 2017	

SHEET NUMBER 46

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 SANITARY SEWER DETAILS.DWG, TOMO, 12/7/2017 10:00 PM



NOTES:

1.1 ALUMINUM ALLOY SPECIFICATIONS
- a. FED. SPEC. QQ-A-200/8 (ALUMINUM-MAGNESIUM-SILICATE ALLOY)
- b. MINIMUM TENSILE STRENGTH= 38,000 p.s.i.
- c. MINIMUM YIELD STRENGTH= 35,000 p.s.i.
- d. MINIMUM ELONGATION=10% IN 2

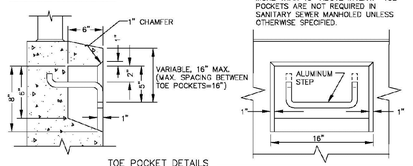
1.2 MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP
- a. 1000 lb. WITH 6" PROJECTION FROM WALL
- b. 1500 lb. WITH 4" PROJECTION FROM WALL

1.3 WEIGHT PER STEP=2.23 POUNDS

1.4 STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.

1.5 VERTICAL SPACING BETWEEN STEPS SHALL BE CONSISTENT IN EACH INDIVIDUAL MANHOLE.

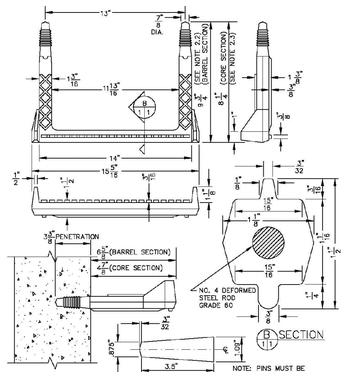
1.6 TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 18" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.



STANDARD EXTRUDED ALUMINUM MANHOLE STEP

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

2016 REVISION — SHEET S3.10



NOTES:
2.1 ASTM SPECIFICATIONS:
- a) ASTM C-478
- b) ASTM A-615 GRADE 60 (STEEL ROD)
- c) ASTM 2146-69, TYPE II, GRADE 16906 (POLYPROPYLENE)

2.2 STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 9-3/4 INCH LEG AND SHALL PROJECT FROM THE WALL 6-5/8 INCHES.

2.3 STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8 INCHES.

2.4 ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8 INCHES.

2.5 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN.

2.6 INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.

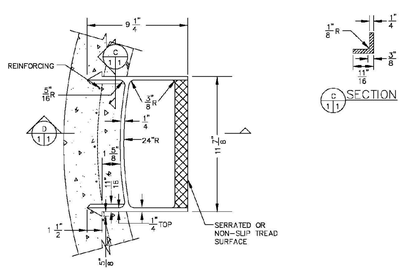
2.7 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

NOTE: PINS MUST BE SMOOTH AND CONTINUOUSLY TAPERED.

POLYPROPYLENE REINFORCED PLASTIC STEP

PARKER WATER & SANITATION DISTRICT	
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP	
SCALE: NONE	DATE: 2/00
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S3.11



CAST ALUMINUM MANHOLE STEP

NOTES:
3.1 THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.

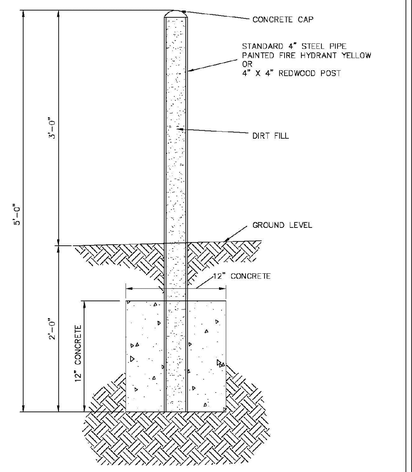
3.2 ALUMINUM ALLOY SPECIFICATIONS:
- a. ALLOY DESIGNATION ALMAG 35
- b. MIN. TENSILE STRENGTH= 40 K.S.I.
- c. MIN. YIELD STRENGTH= 20 K.S.I.
- d. MIN. SHEAR STRENGTH= 27.45 K.S.I.
- e. ELONGATION= 10% IN 2
- f. BRINELL HARDNESS= 70

3.3 MINIMUM LOAD CAPACITY, STEP SPACING AND ALIGNMENT, TOE POCKET DETAILS AND OTHER APPLICABLE NOTES OR DETAILS SPECIFIED FOR EXTRUDED ALUMINUM MANHOLE STEP SHALL ALSO APPLY TO THIS STANDARD.

3.4 MIN. WT. = 2.0 lb.

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

2016 REVISION — SHEET S3.12



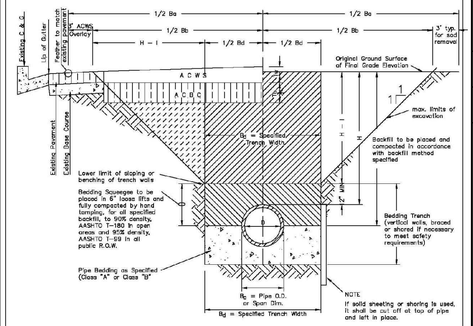
MARKER POST DETAIL

STEEL PIPE
STENCILED IDENTIFICATION MARKS ON POSTS SHALL FACE THE APPURTENANCE WITH 2" STENCILS INDICATING TYPE OF APPURTENANCE (MH, 12" VALVE, ETC.) AND THE DISTANCE IN FEET AND INCHES FROM POST.

REDWOOD POST
ROUTER LETTERS AND NUMBERS INTO POST. PAINT LETTERS AND NUMBERS BLACK.

PARKER WATER & SANITATION DISTRICT	
MARKER POST DETAIL	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/00 10/16 4/01 1/06 1/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S3.13



TYPICAL TRENCH DETAIL

T_b = Thickness of Asphaltic Concrete Base Course (A C B/C)

T_w = Thickness of Asphaltic Concrete Wearing Surface (A C W S)

T_a = Total Asphalt Thickness ($T_b + T_w$)

B_c = Outside Pipe or Conduit Span Dimension

B_d = Specified Bedding Trench Width and Max Bedding Trench Width at a point 12" above Top of Pipe (See Note 2)

B_b = Max. Pay Width of Asphaltic Concrete Base Course (or Asphaltic Concrete Cold Mix) (See Note 3)

B_a = Max. Pay Width of Asphaltic Concrete Wearing Surface or Sod Replacement (See Note 3)

H = Depth of Surface to Top of Pipe

H-1= Depth from Surface to 1 ft. above Top of Pipe

NOTES

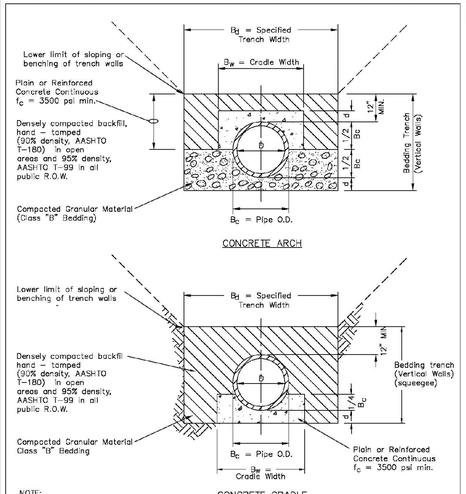
1. *Sloping or benching of trench side walls, where permitted, shall be in accordance with applicable Federal, State and Local safety regulations.*
2. *Trench shall be braced and shored as necessary to attend safe working conditions or to protect adjacent utilities, structures, etc. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutter, utilities, sidewalk, structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.*
3. *If dimension "B_d" is $\leq 5'$, then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt pay widths, B_b & B_a shall then be based upon this actual width.*

TABLE II
ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE

STREET WIDTH	ASPHALTIC BASE COURSE (T_b)	ASPHALTIC WEARING SURFACE (T_w)	TOTAL THICKNESS (T_a)
UP TO 36'	4"	2"	6"
36' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
WIDER THAN 48'	6"	3"	9"

PARKER WATER & SANITATION DISTRICT	
SEWER TRENCHING AND BEDDING DETAIL	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	5/98 1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S4.1



NOTE:
The Design Engineer shall be responsible for structural design of the concrete cradle and/or concrete arch.

TABLE III

NOMINAL DIAMETER (D)	MINIMUM THICKNESS (d)	MIN. WIDTH OF CRADLE (B_w)
18" & smaller	6"	B_c + 8"
21" to 24"	6"	B_c + 8"
27" to 33"	8"	B_c + 8"
36" to 42"	10"	1.25 B_c
48" & larger	1/4 D	1.25 B_c

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

2016 REVISION — SHEET S4.2

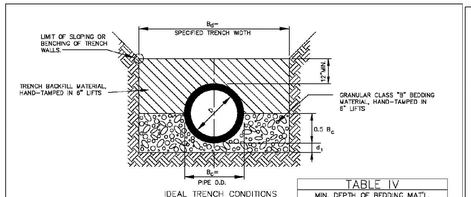
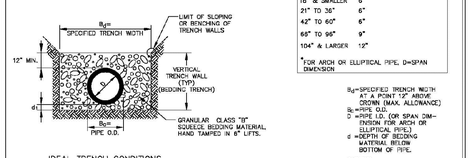


TABLE IV MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE	
PIPE SIZE-D*	d_1
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION



B_d=SPECIFIED TRENCH WIDTH AT A POINT 12" ABOVE CROWN (MAX. ALLOWANCE)
B_c=PIPE O.D.
D =PIPE I.D. (OR SPAN DIMENSION FOR ARCH OR ELLIPTICAL PIPE.)
d =DEPTH OF BEDDING MATERIAL BELOW BOTTOM OF PIPE.

NOTES:
3.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.

3.2 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-180 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

CLASS 'B' BEDDING

GENERAL NOTES:
G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

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

2016 REVISION — SHEET S4.3

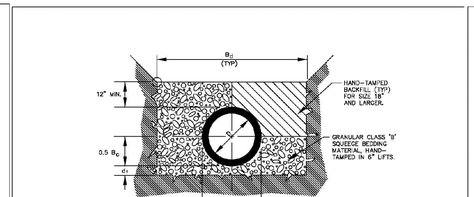


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66" TO 96"	9"
104" & LARGER	12"

*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

B_d=SPECIFIED TRENCH WIDTH AT A POINT 12" ABOVE CROWN (MAX. ALLOWANCE)
B_c=PIPE O.D.
D =PIPE I.D. (OR SPAN DIMENSION FOR ARCH OR ELLIPTICAL PIPE.)
d =DEPTH OF BEDDING MATERIAL BELOW BOTTOM OF PIPE.

NOTES:
3.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.

3.2 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-180 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

CLASS 'B' BEDDING

GENERAL NOTES:
G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

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

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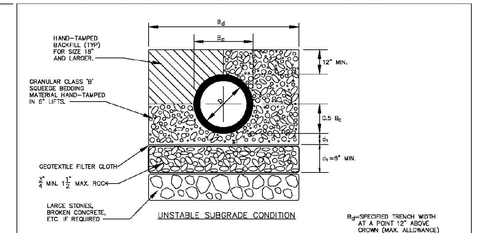


TABLE IV MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE	
PIPE SIZE-D*	d_1
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

B_d=SPECIFIED TRENCH WIDTH AT A POINT 12" ABOVE CROWN (MAX. ALLOWANCE)
B_c=PIPE O.D.
D =PIPE I.D. (OR SPAN DIMENSION FOR ARCH OR ELLIPTICAL PIPE.)
d =DEPTH OF BEDDING MATERIAL BELOW BOTTOM OF PIPE.

NOTES:
3.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.

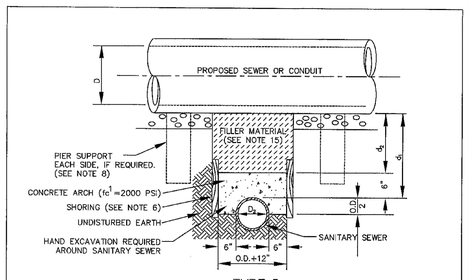
3.2 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-180 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

CLASS 'B' BEDDING

GENERAL NOTES:
G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

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

2016 REVISION — SHEET S4.5



TYPE I
CONCRETE ENCASEMENT FOR SANITARY SEWERS
(CONCRETE ARCH)

GENERAL NOTES FOR TYPE I,II,& III ENCASEMENT

1. CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED A BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
2. LENGTH OF ENCASEMENT FOR:
   (a) TYPE I & TYPE III ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
   (b) TYPE II ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
3. UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
4. TYPE I, II & III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
   (a) TYPE I OR TYPE III IF $d \leq 18"$ ($d_1 \leq 12"$) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.
   WATER MAINS AND $d_1 \leq 24"$ ($d_1 \leq 18"$)
   (a) TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION "d_1".
   (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
   (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
5. FILLER MATERIAL BETWEEN CONDUITS TO BE:
   (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC IF d_2 & $d_3 \leq 5"$
   (b) COMPACTED CLASS "B" BEDDING IF d_2 & $d_3 > 5"$ (IF $d_2 > 8"$ FOR TYPE III ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL)
6. SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
7. THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
8. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

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

2008 REVISION — SHEET 6

10333 E. Dry Creek Rd.
Suite 240
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Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

No.	Revisions	Date	Init.	Appr.	Date

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

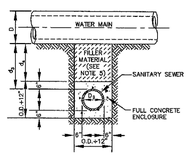
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS 2

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017

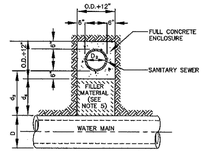
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N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\F1 SANITARY SEWER DETAILS.DWG, TOMO, 12/7/2017 10:00 PM



TYPE IIa
SANITARY SEWER CROSSING
UNDER WATER MAIN
IF $d_2 > 2$ ft., ENCASEMENT NOT REQUIRED



TYPE II b
SANITARY SEWER CROSSING
OVER TOP OF WATER MAIN
FULL ENCASEMENT REQUIRED REGARDLESS OF DIMENSION d_2.

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

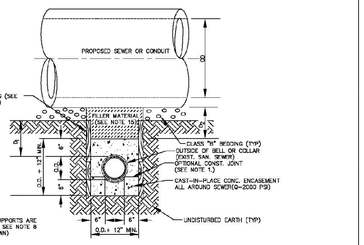
GENERAL NOTES FOR TYPE I,II& III ENCASEMENT

1. CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED A BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
2. LENGTH OF ENCASEMENT FOR:
   (a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
   (b) TYPE II ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
3. UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
4. TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
   (a) TYPE I OR TYPE III IF $d \leq 18"$ ($d \leq 12"$) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.

   WATER MAINS AND $d_2 \leq 24"$ ($d_2 \leq 18"$)
   (c) TYPE IIb IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION "d_2"
   (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
   (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
5. FILLER MATERIAL BETWEEN CONDUITS TO BE:
   (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC IF $d_2 \leq d_1 \leq 2'$.
   (b) COMPACTED CLASS "B" BEDDING IF $d_2 \leq d_1 > 6"$ (IF $d_2 > 2'$ FOR TYPE IIb ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL)
6. SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
7. THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
8. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

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

2008 REVISION — SHEET 7



TYPE III
CONCRETE ENCASEMENT FOR SANITARY SEWERS

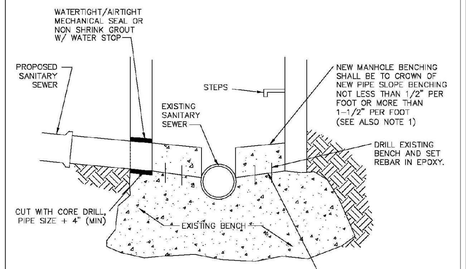
(FULL ENCASEMENT) NO SCALE

GENERAL NOTES FOR TYPE I,II& III ENCASEMENT

1. CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED A BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
2. LENGTH OF ENCASEMENT FOR:
   (a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
   (a) TYPE II ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
3. UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I,II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
4. TYPE I, II & III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
   (a) TYPE I OR TYPE II IF $D_1 \leq 18"$ ($D_1 \leq 12"$) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.
   (b) TYPE IIa IS REQUIRED FOR SANITARY SEWERS CROSSING UNDER WATER MAINS AND $D_2 \leq 24"$ ($D_1 \leq 18"$)
   (c) TYPE IIb IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION "D_2"
   (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
   (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
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9. CONCRETE ENCASED PIPING SHALL BE LINED WITH FELT LAYER.

PARKER WATER & SANITATION DISTRICT	
CONCRETE ENCASEMENT TYPE III	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	5/98 1/15 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S4.8



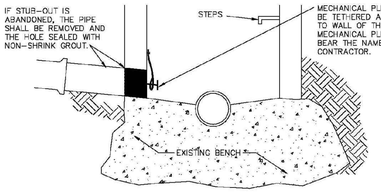
MANHOLE INVERT TIE-IN

NOTES

1 – NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

PARKER WATER & SANITATION DISTRICT	
MANHOLE INVERT TIE-IN DETAIL	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	1/15 10/16
DIRECTOR OF ENGINEERING	

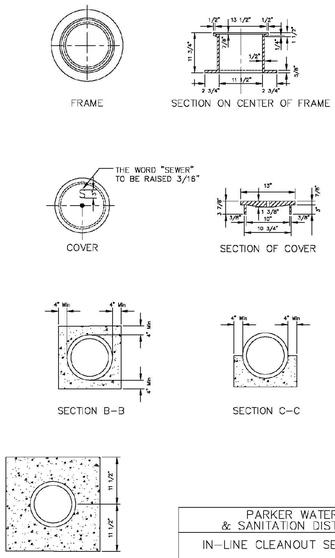
2016 REVISION — SHEET S4.9



MANHOLE STUB-OUT DETAIL

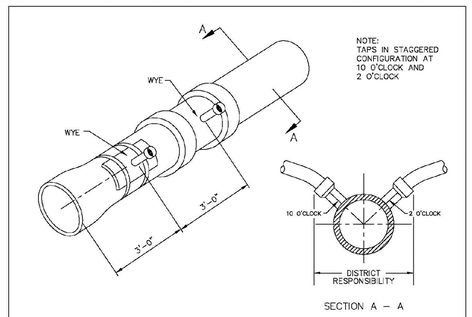
PARKER WATER & SANITATION DISTRICT	
MANHOLE STUB-OUT DETAIL	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S4.10



PARKER WATER & SANITATION DISTRICT	
IN-LINE CLEANOUT SECTIONS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	2/00 1/08 1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION — SHEET S4.12



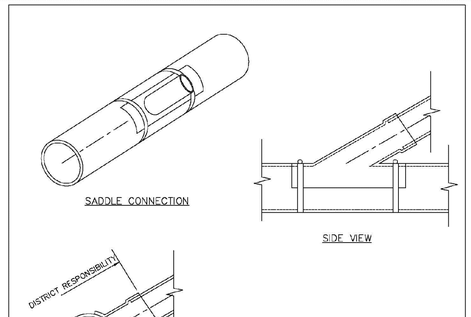
SECTION A – A

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

DOMESTIC SEWER TAPPING DETAIL

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

2016 REVISION — SHEET S4.13



Y – SADDLE DETAIL

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: 2/96
APPROVED: PVR	1/15 10/16
DIRECTOR OF ENGINEERING	

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Fax: (720) 482-9546
CVL CONSULTANTS

No.	Revisions	Date	Init.	Appr.	Date

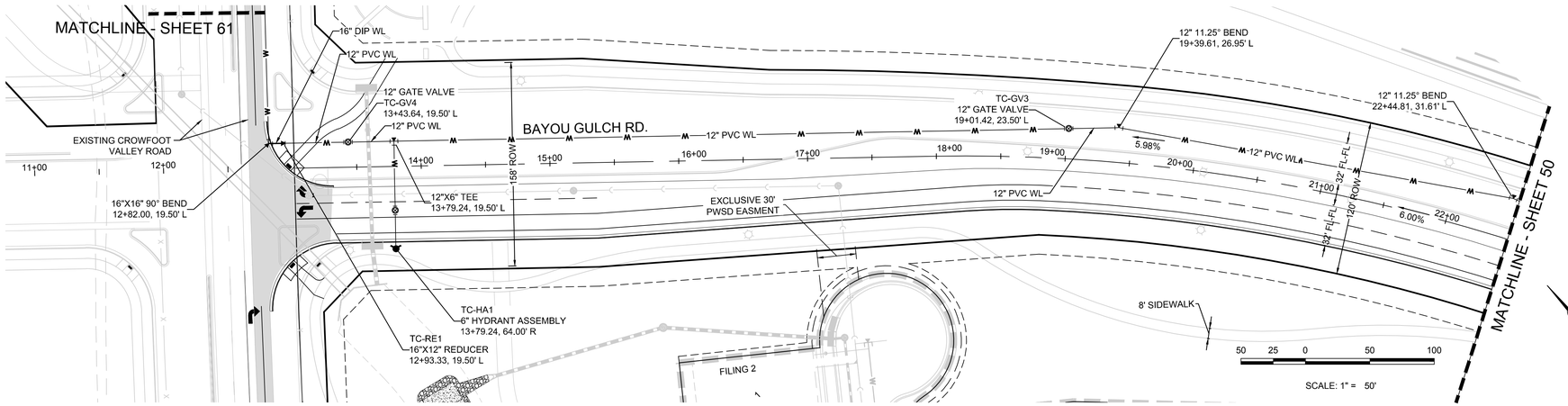
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS 3

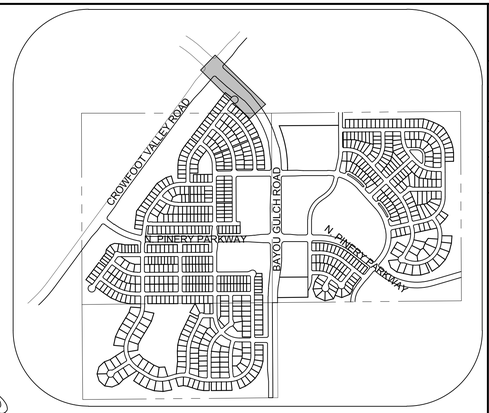
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CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 48

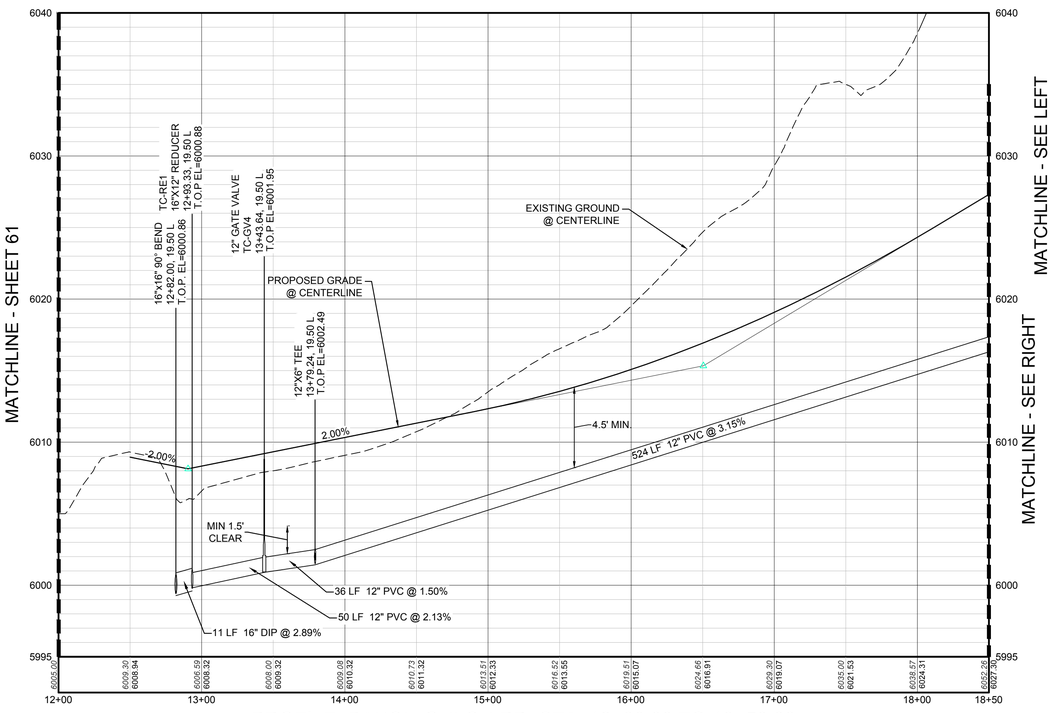
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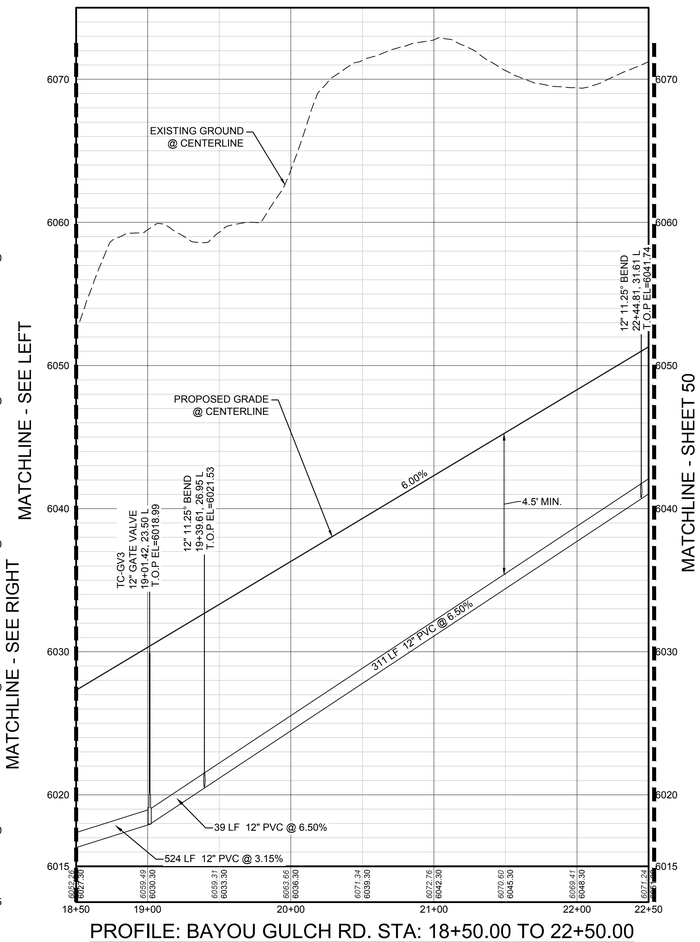
PLAN: BAYOU GULCH RD. STA: 11+00.00 TO 22+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: BAYOU GULCH RD. STA: 12+00.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: BAYOU GULCH RD. STA: 18+50.00 TO 22+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

- BLOCK NUMBER
- LOT TYPE
- 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
- 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 (1.0%)
- EXISTING 5' CONTOUR (5615)
- EXISTING 1' CONTOUR (5616)
- PROPOSED 5' CONTOUR (5620)
- PROPOSED 1' CONTOUR (5607)
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- PROPOSED WATER LINE (8"W)
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- EXISTING FIBER OPTIC LINE (FO)
- EXISTING OVERHEAD POWER (OH)
- EXISTING TELEPHONE LINE (TEL)

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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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

No.	Revisions	Date	Init.	Appr.	Date

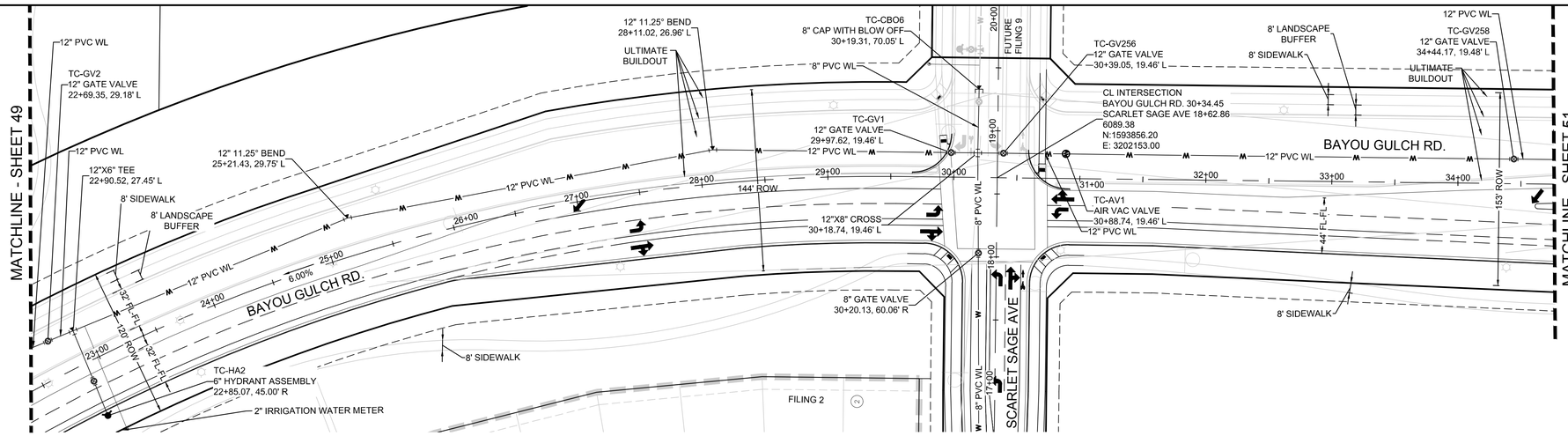
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Tel: (720) 482-9526
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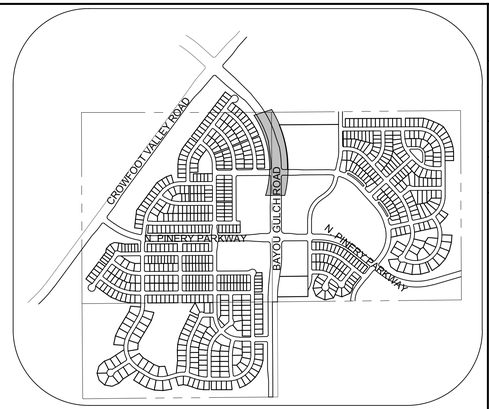
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BAYOU GULCH ROAD

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 49

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 BAYOU GULCH ROAD WATER.DWG, BRIANW, 12/7/2017 10:04 PM

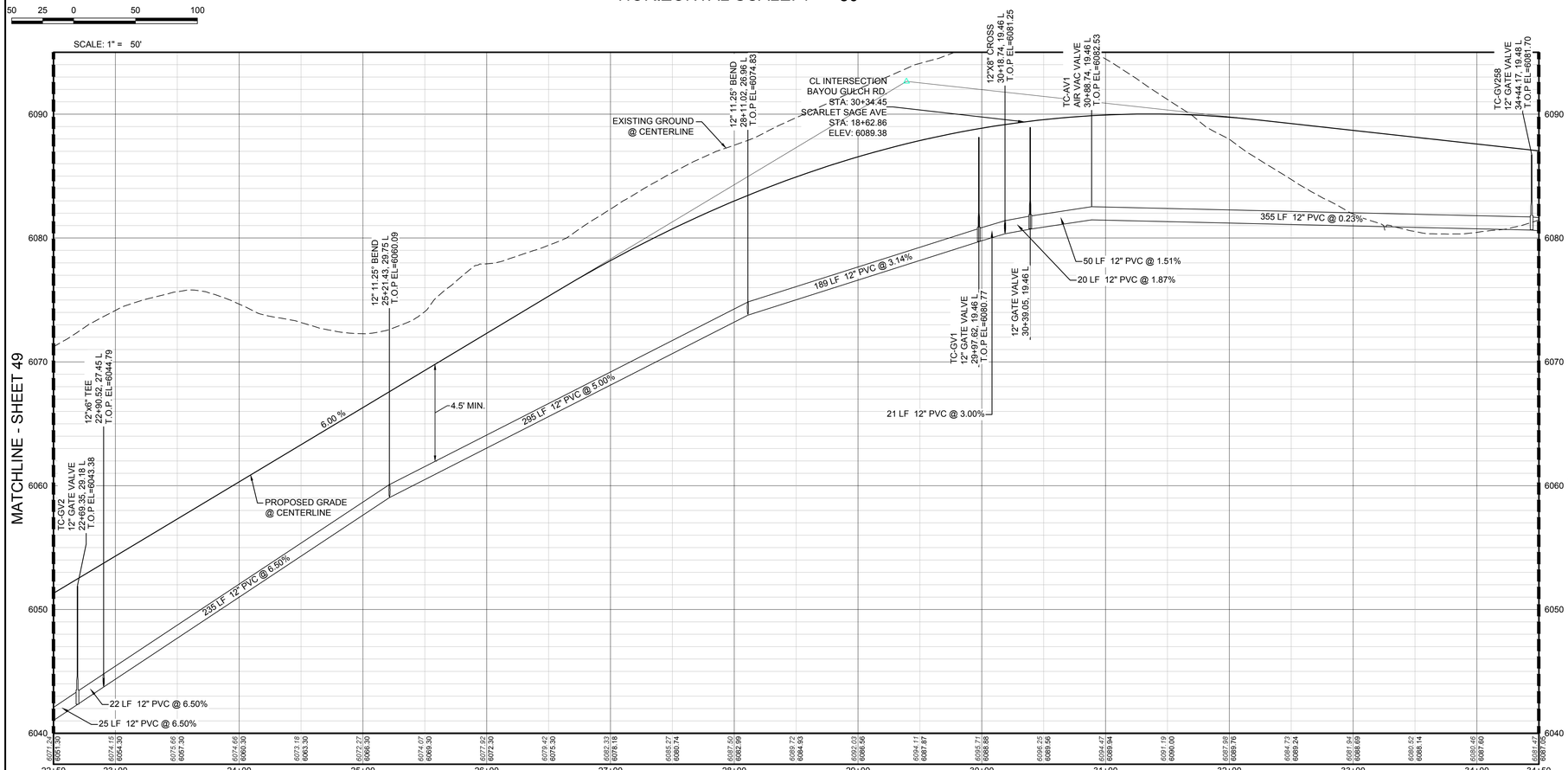




KEYMAP
N.T.S.

PLAN: BAYOU GULCH RD. STA: 22+50.00 TO 34+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100



PROFILE: BAYOU GULCH RD. STA: 22+50.00 TO 34+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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BENCHMARK
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No.	Revisions	Date	Init.	Date	Appr.	Date

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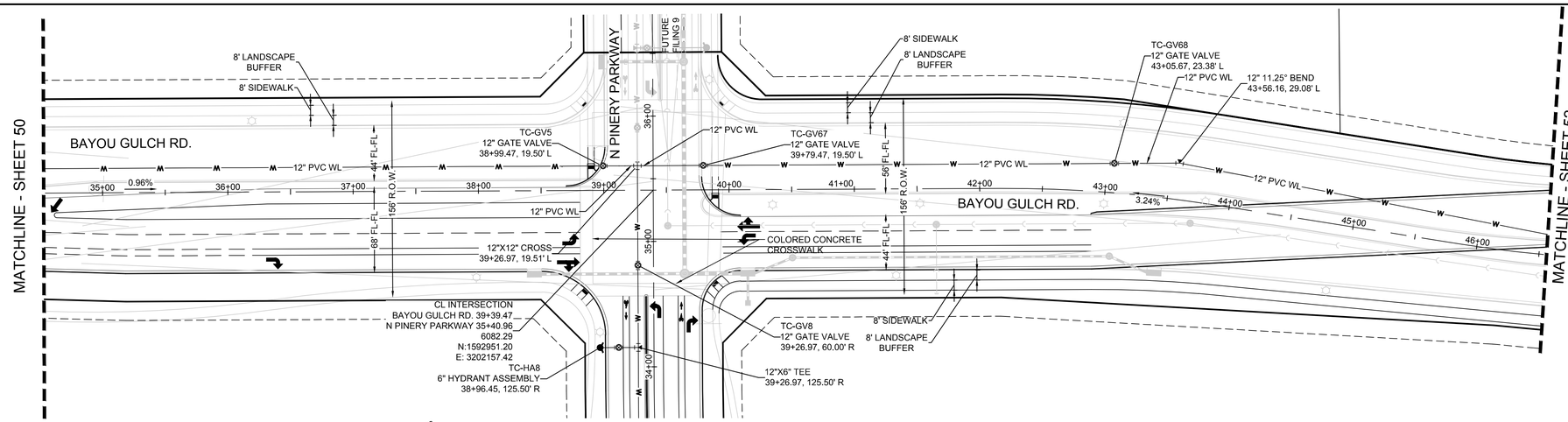
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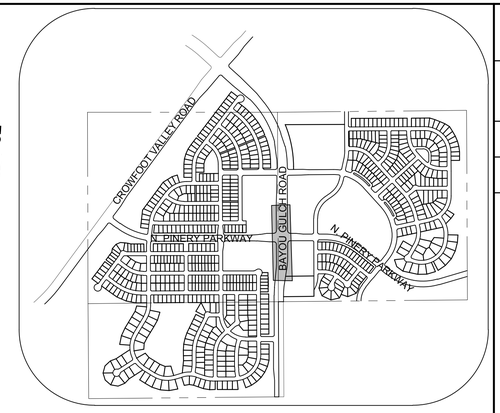
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7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BAYOU GULCH ROAD

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 50

N:\PROJECTS\HSESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 BAYOU GULCH ROAD WATER.DWG, BRIANW, 12/7/2017 10:04 PM

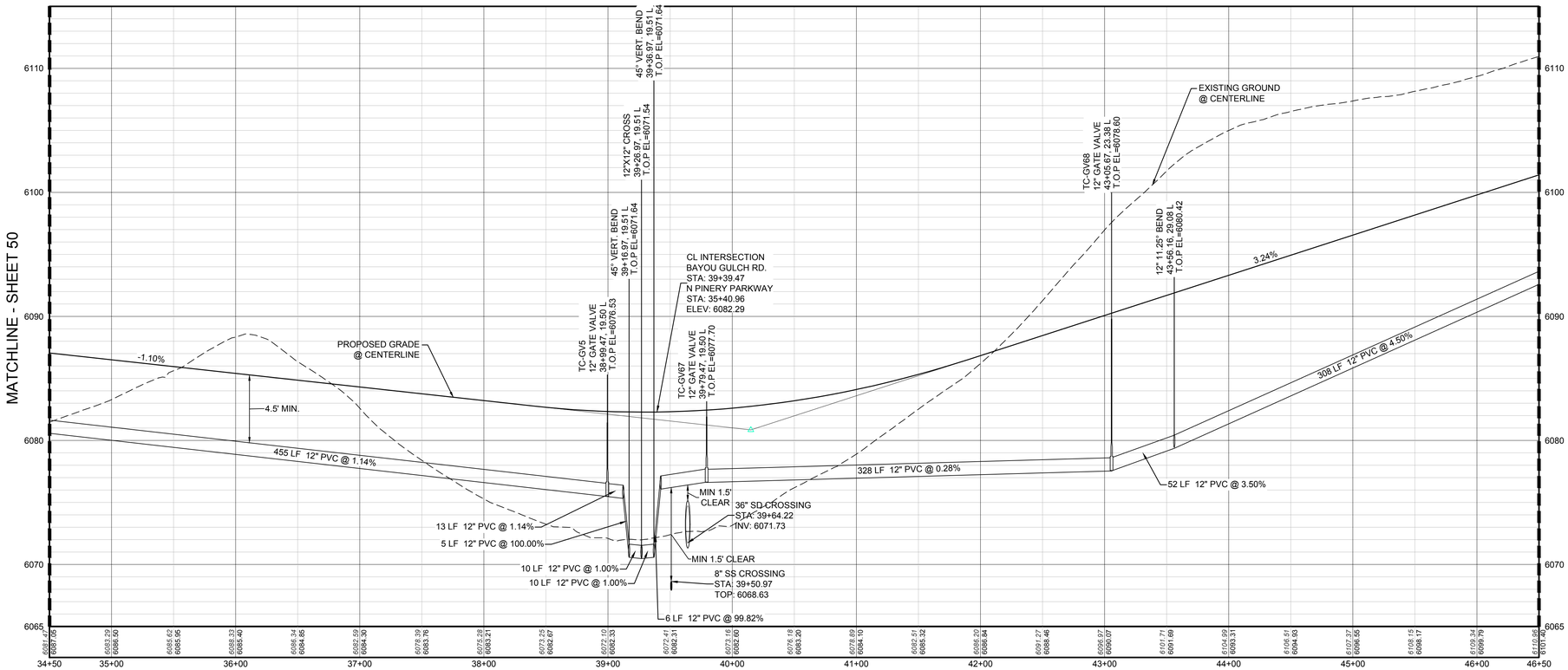




KEYMAP
N.T.S.

50 25 0 50 100
SCALE: 1" = 50'

PLAN: BAYOU GULCH RD. STA: 34+50.00 TO 46+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: BAYOU GULCH RD. STA: 34+50.00 TO 46+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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No.	Revisions	Date	Init.	Appr.	Date

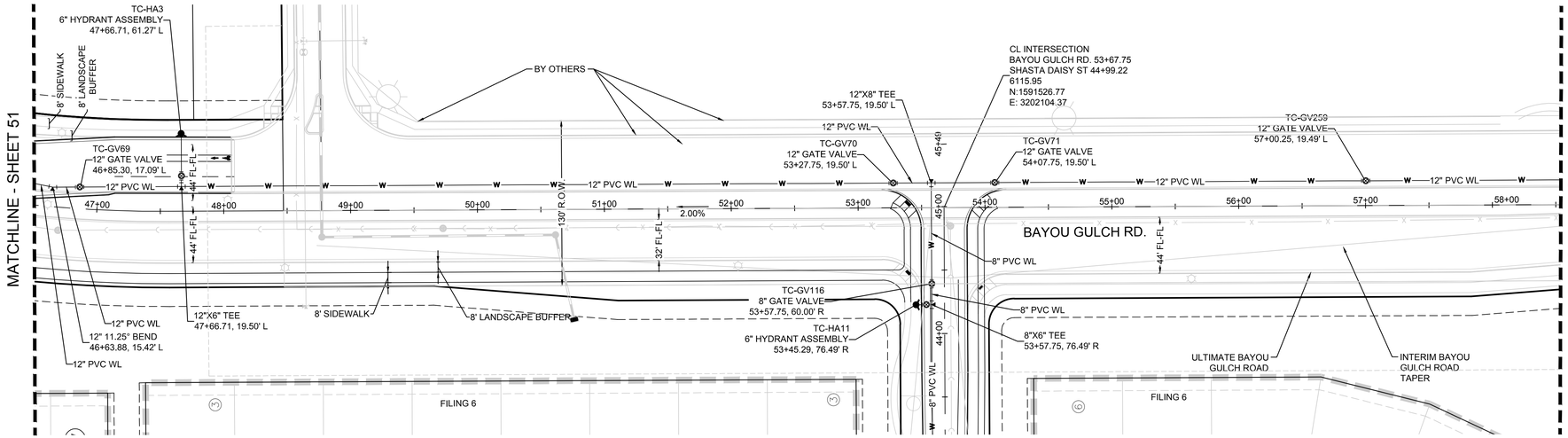
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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BAYOU GULCH ROAD

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 51

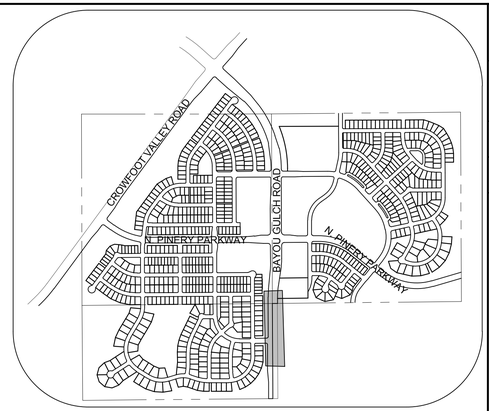
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PLAN: BAYOU GULCH RD. STA: 46+50.00 TO 58+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

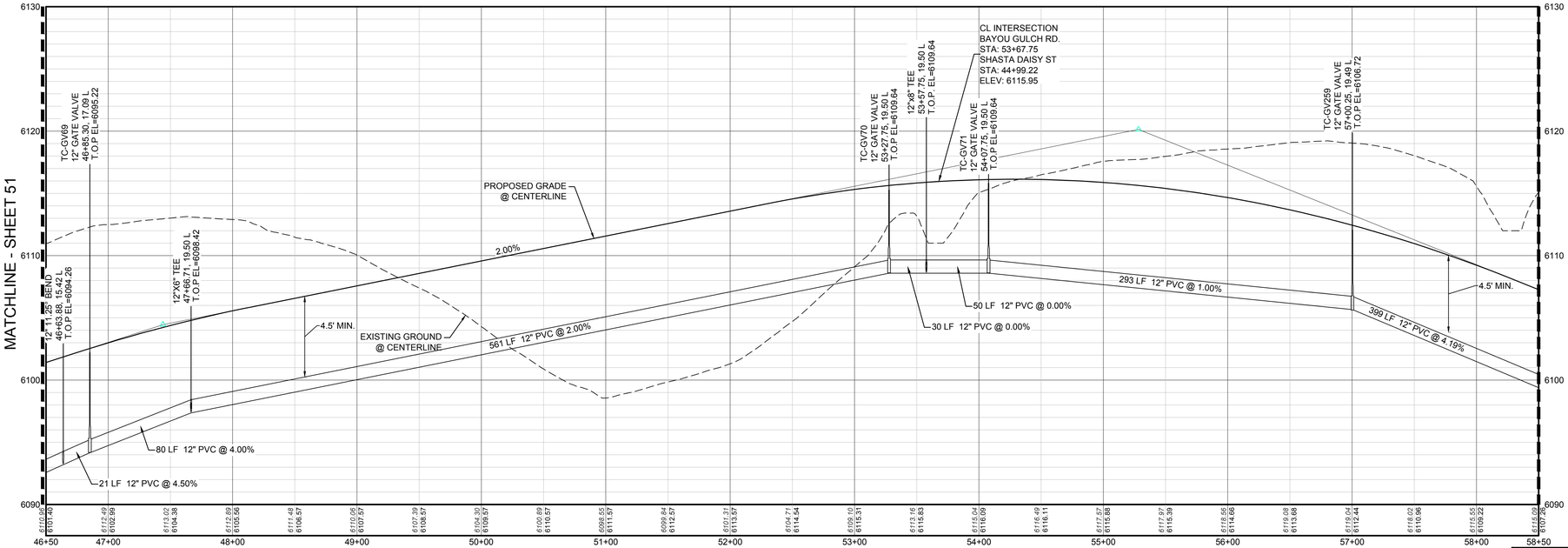
SCALE: 1" = 50'



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 (1.0%)
PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR (5615)
PROPOSED WL FITTING WITH THRUST BLOCK	EXISTING 1' CONTOUR (5616)
PROPOSED FLARED END SECTION	PROPOSED 5' CONTOUR (5620)
PROPOSED LOW POINT BLOW-OFF	PROPOSED 1' CONTOUR (5607)
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 (8"W)
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
EXISTING ELEVATION (10.00)	FILING BOUNDARY
PROPOSED DESIGN ELEVATION (10.00)	EXISTING FIBER OPTIC LINE (FO)
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER (OH)
PROPOSED STORM DRAIN MANHOLE (4 5 6)	EXISTING TELEPHONE LINE (TEL)



PROFILE: BAYOU GULCH RD. STA: 46+50.00 TO 58+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

ABBREVIATIONS

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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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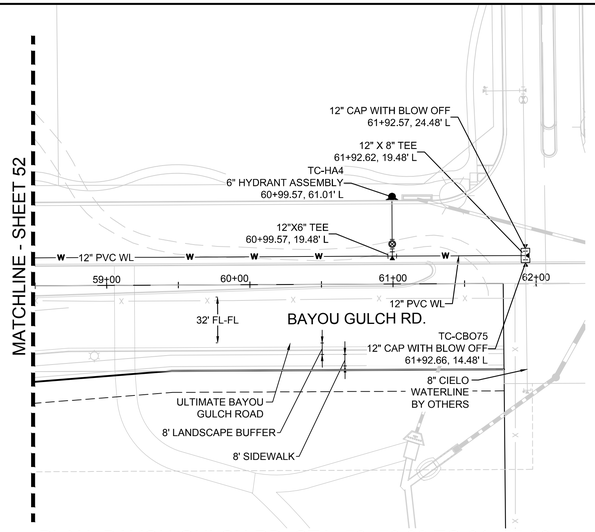
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BAYOU GULCH ROAD

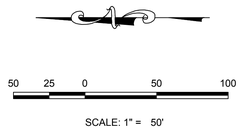
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FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 52

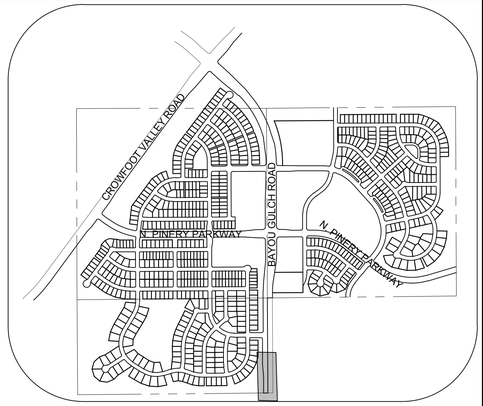
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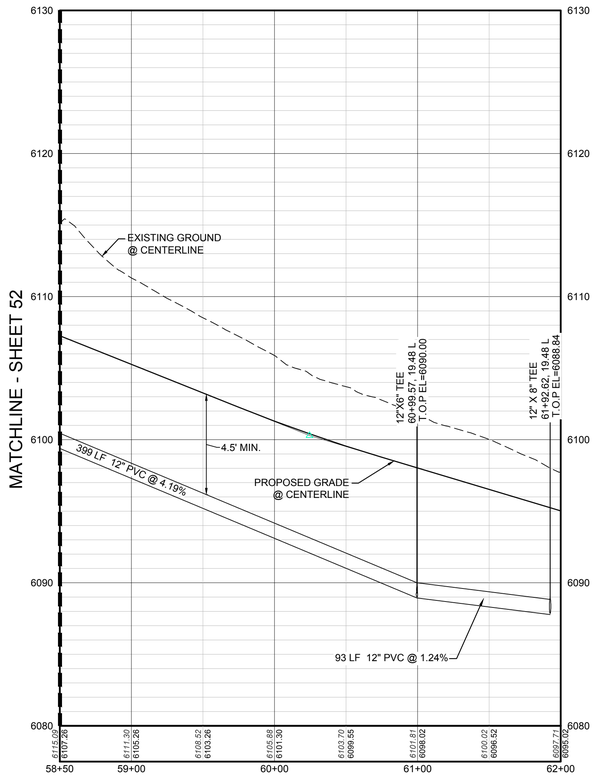
PLAN: BAYOU GULCH RD. STA: 58+50.00 TO 61+77.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: BAYOU GULCH RD. STA: 58+50.00 TO 62+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
BO	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
AV	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
S S S	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

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COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

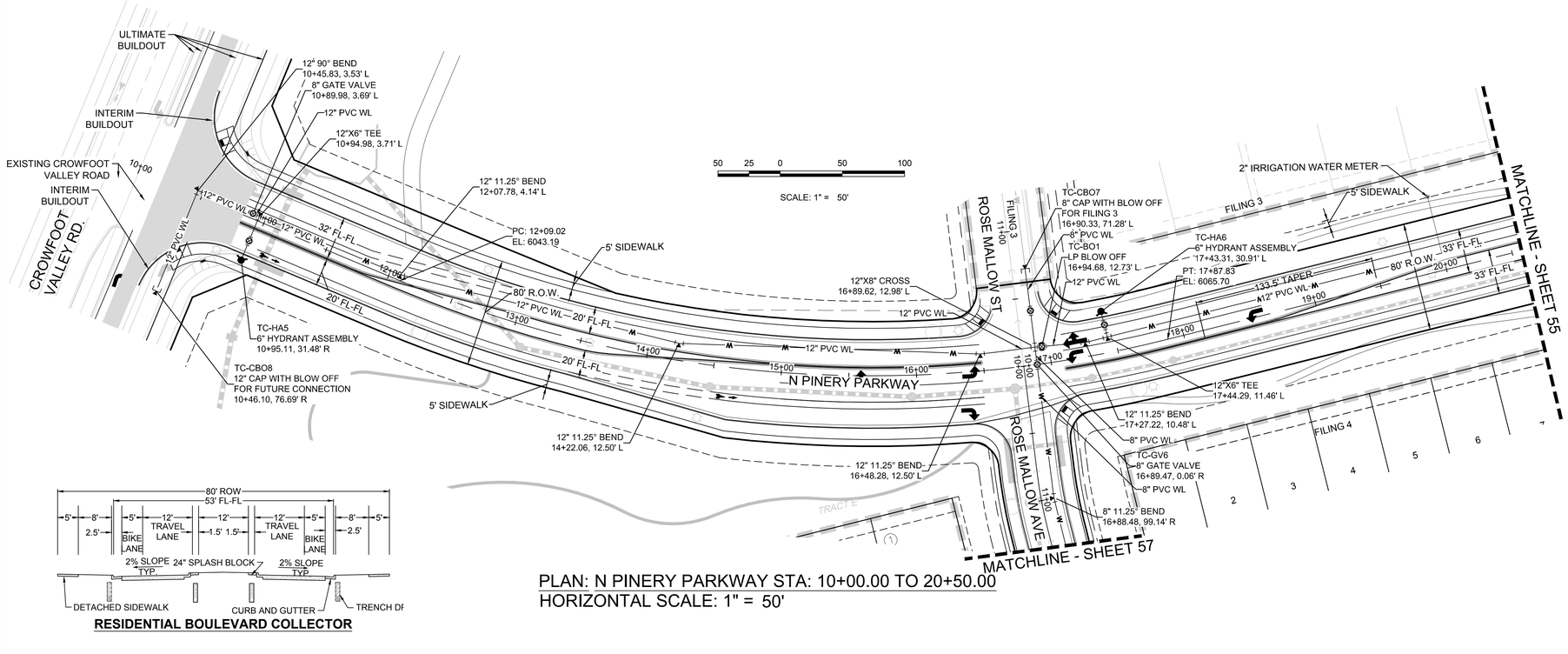
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
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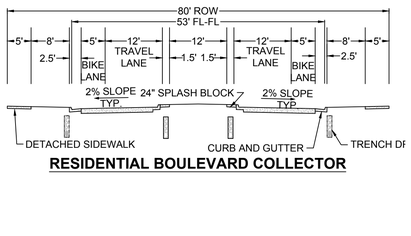
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BAYOU GULCH ROAD

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 53

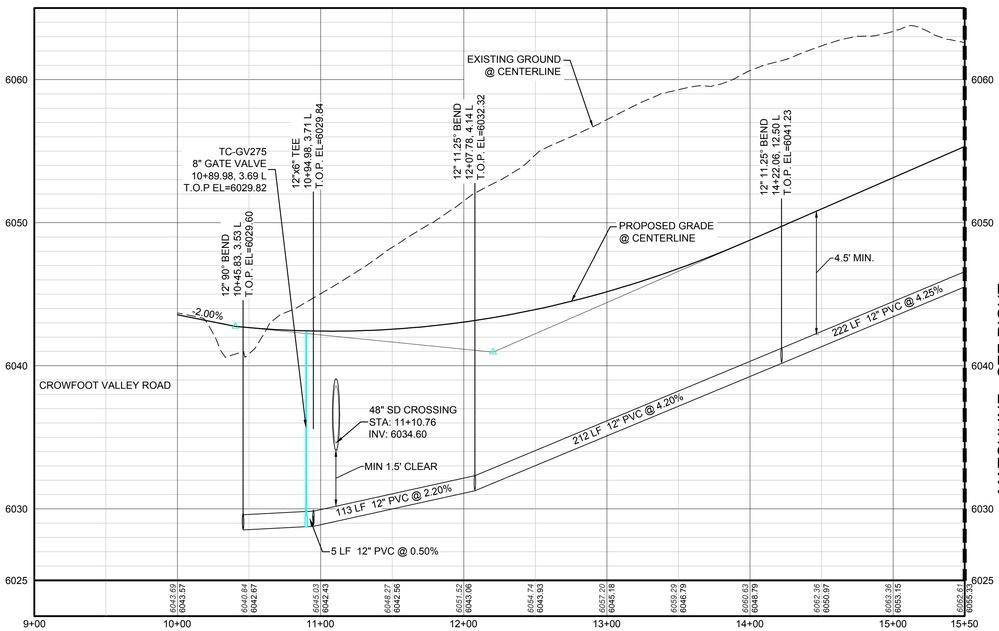
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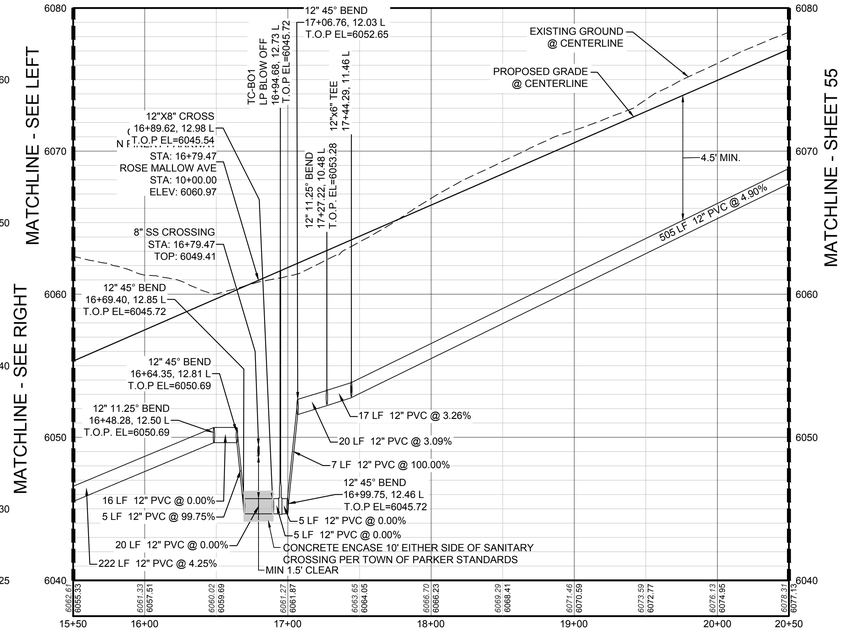


RESIDENTIAL BOULEVARD COLLECTOR

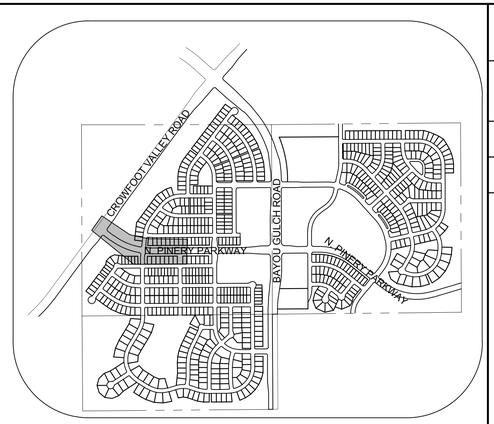
PLAN: N PINERY PARKWAY STA: 10+00.00 TO 20+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: N PINERY PARKWAY STA: 9+00.00 TO 15+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: N PINERY PARKWAY STA: 15+50.00 TO 20+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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

No.	Revisions	Date	Init.	Appr.	Date

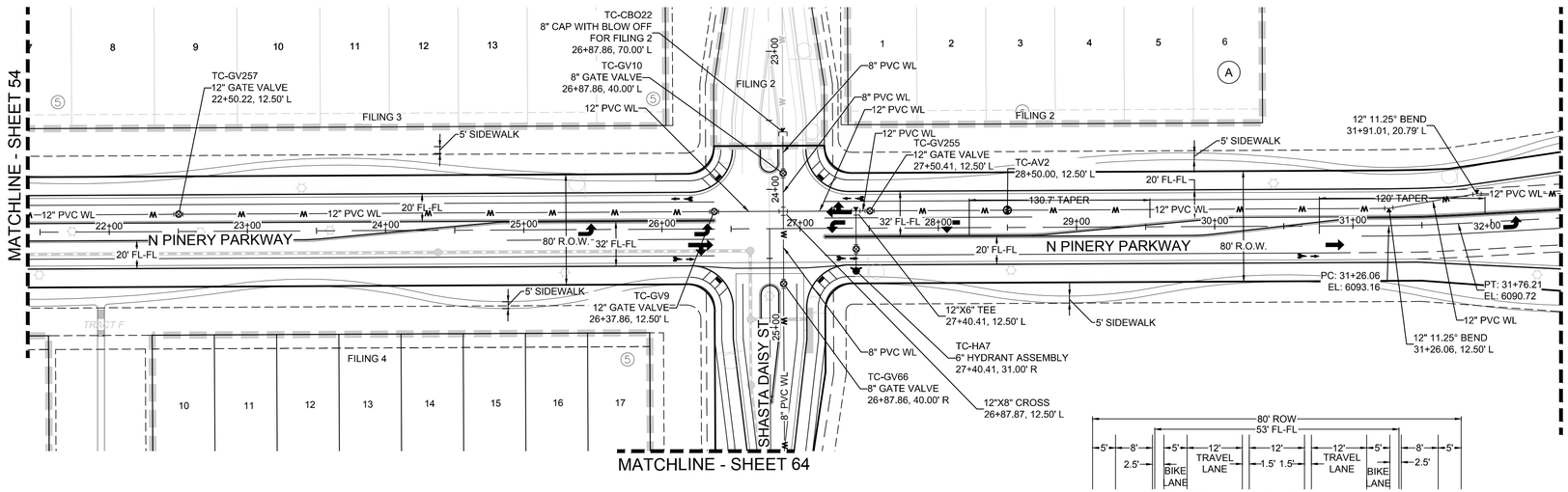
10333 E. Dry Creek Rd.
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Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
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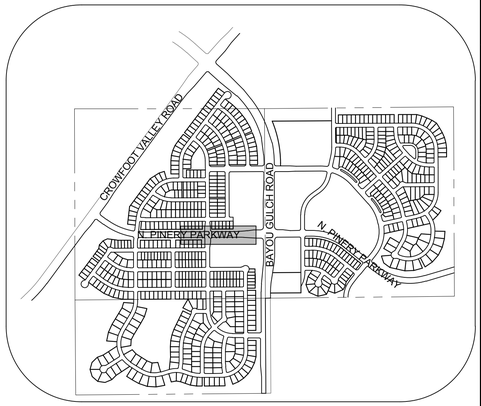
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

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

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 54

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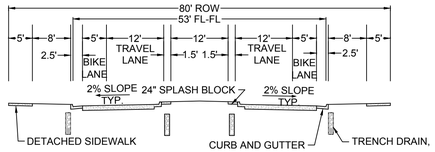




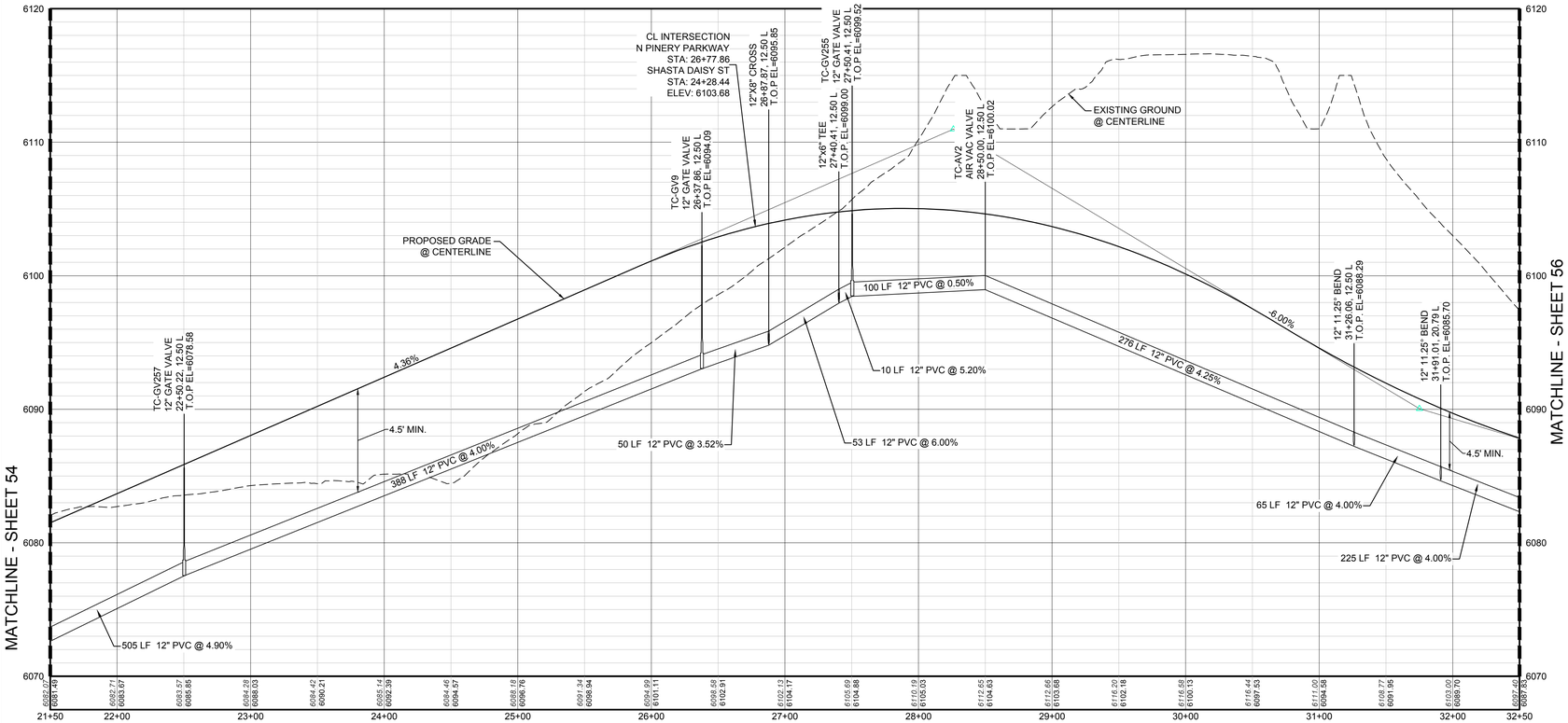
KEYMAP
N.T.S.

50 25 0 50 100
SCALE: 1" = 50'

PLAN: N PINERY PARKWAY STA: 21+50.00 TO 32+50.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL BOULEVARD COLLECTOR



PROFILE: N PINERY PARKWAY STA: 21+50.00 TO 32+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
BV	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
V	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
BO	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
AV	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
(4)(5)(6)	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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

No.	Revisions	Date	Init.	Appr.	Date

CVL CONSULTANTS
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
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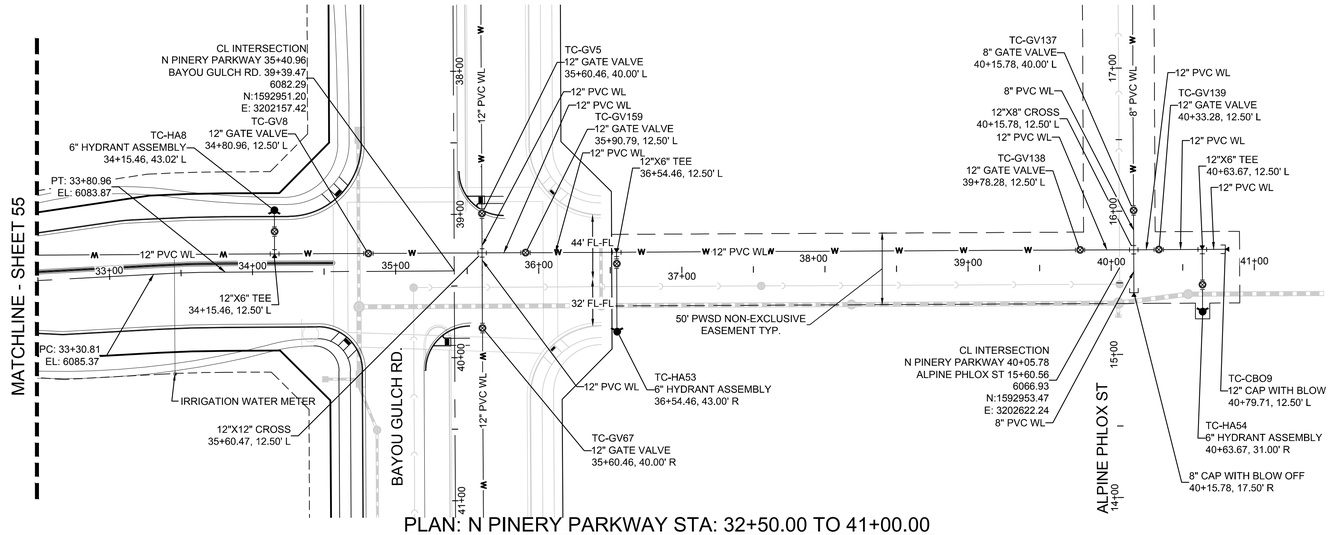
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7353 South Alton Way
CENTENNIAL, CO 80112

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

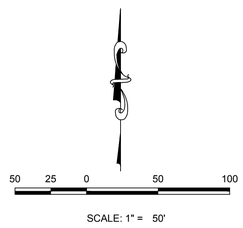
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FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017

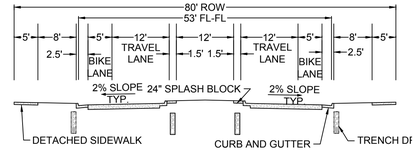
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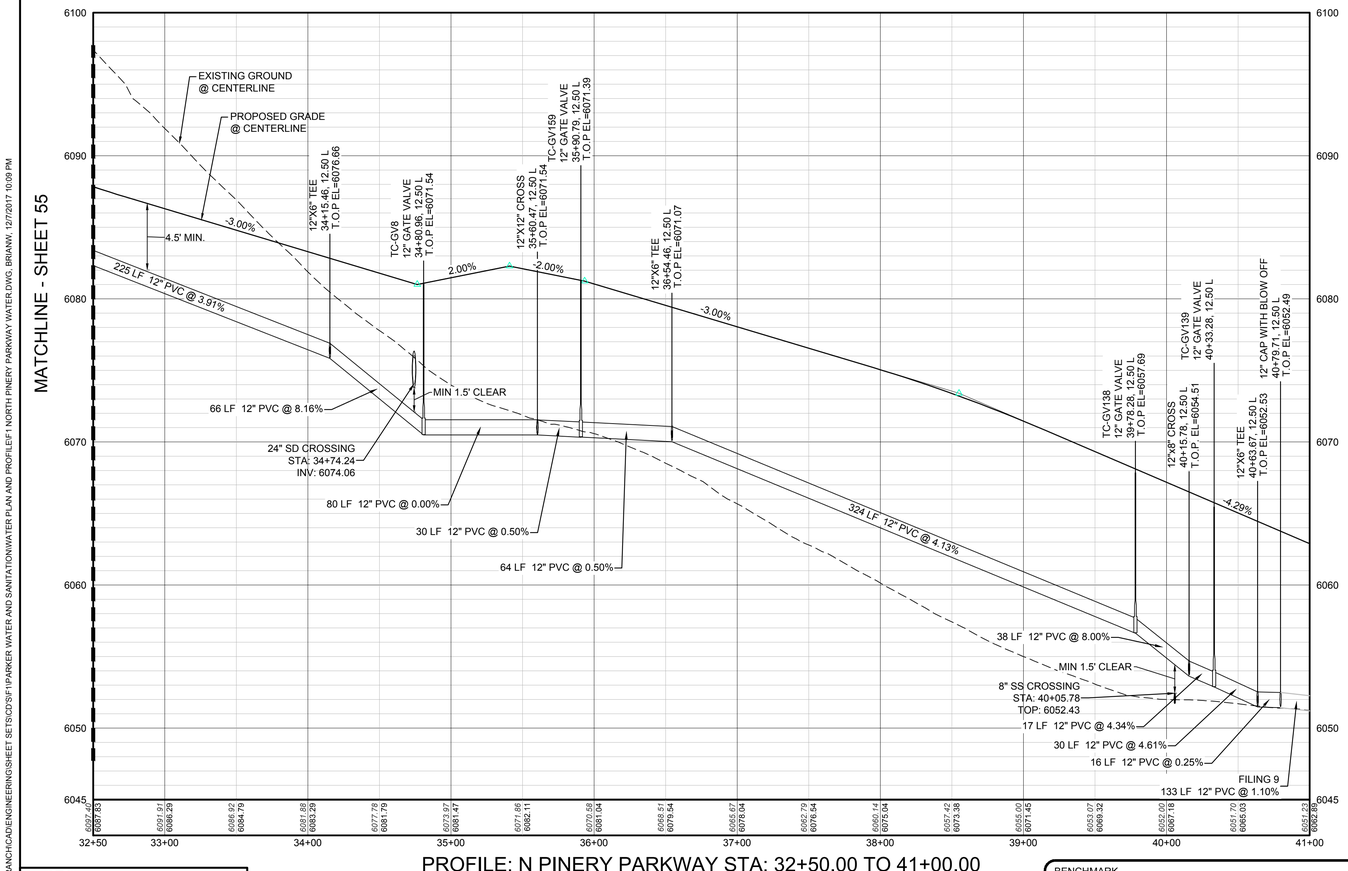


PLAN: N PINERY PARKWAY STA: 32+50.00 TO 41+00.00
HORIZONTAL: 1" = 50'

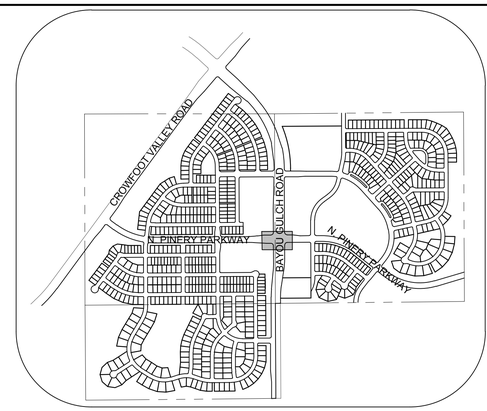




RESIDENTIAL BOULEVARD COLLECTOR



PROFILE: N PINERY PARKWAY STA: 32+50.00 TO 41+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
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HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

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No.	Revisions	Date	Init.	Appr.	Date

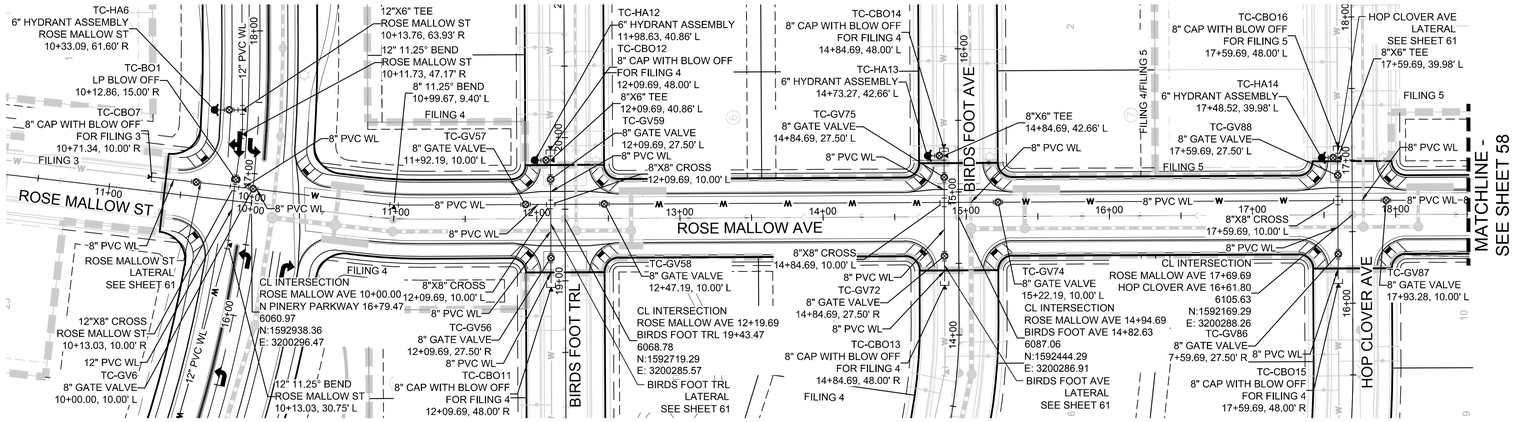
10339 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
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CVL CONSULTANTS

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CENTENNIAL, CO 80112

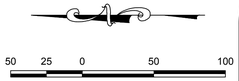
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
NORTH PINERY PARKWAY

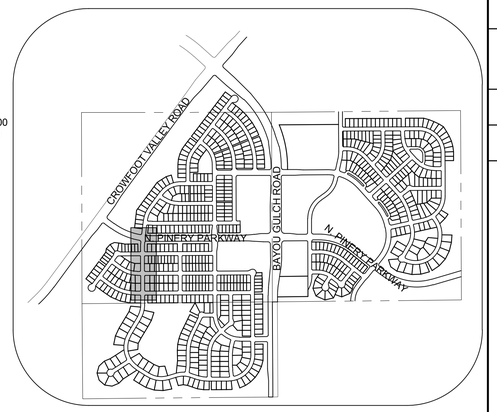
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DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 56

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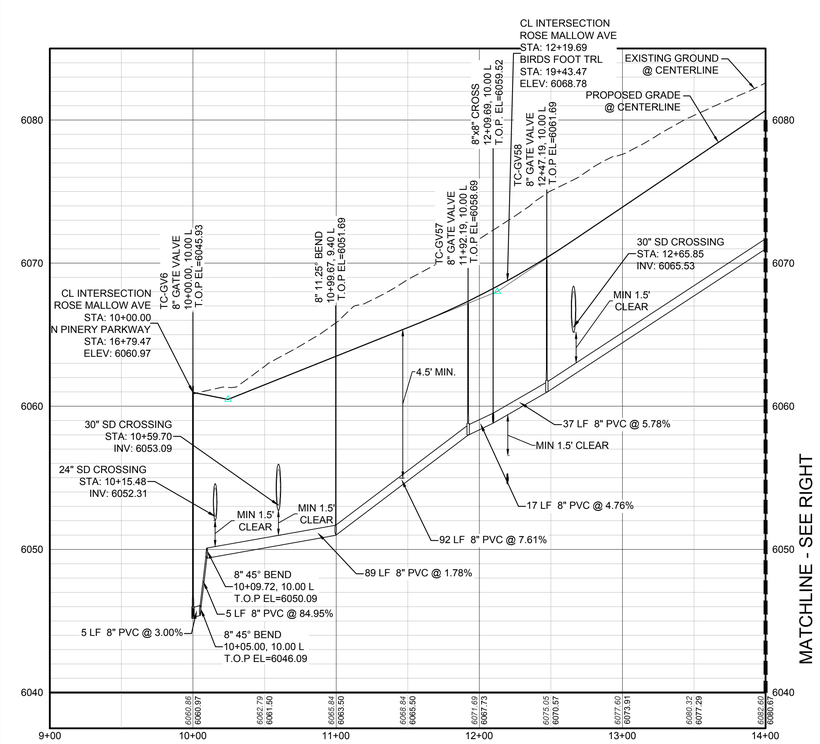


PLAN: ROSE MALLOW AVE STA: 10+00.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'

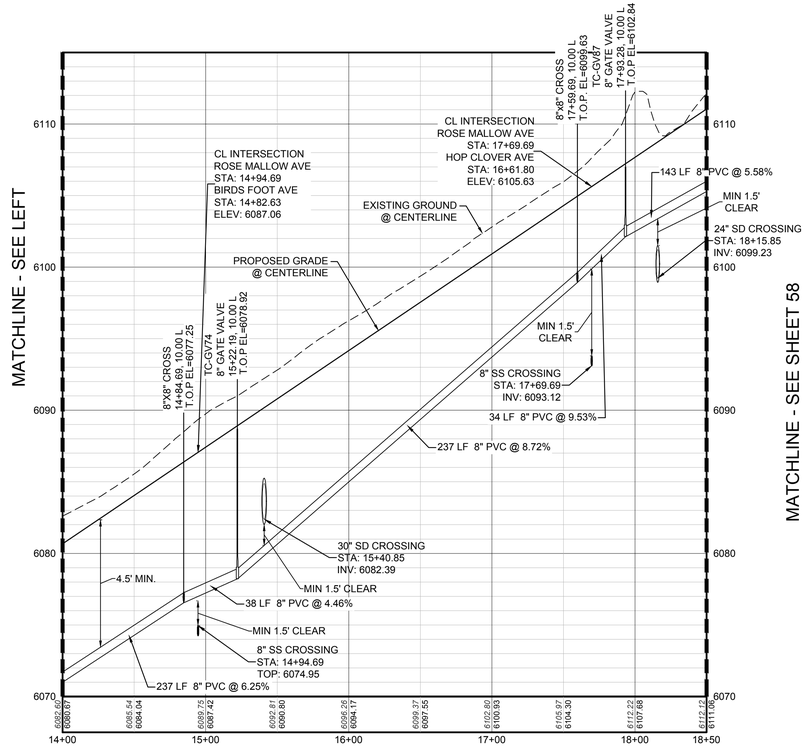




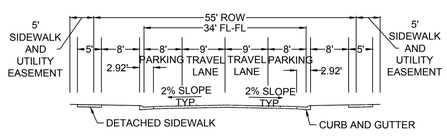
KEYMAP
N.T.S.



PROFILE: ROSE MALLOW AVE STA: 9+00.00 TO 14+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW AVE STA: 14+00.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



RESIDENTIAL LOCAL

LEGEND

- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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

No.	Revisions	Date	Init.	Appr.	Date

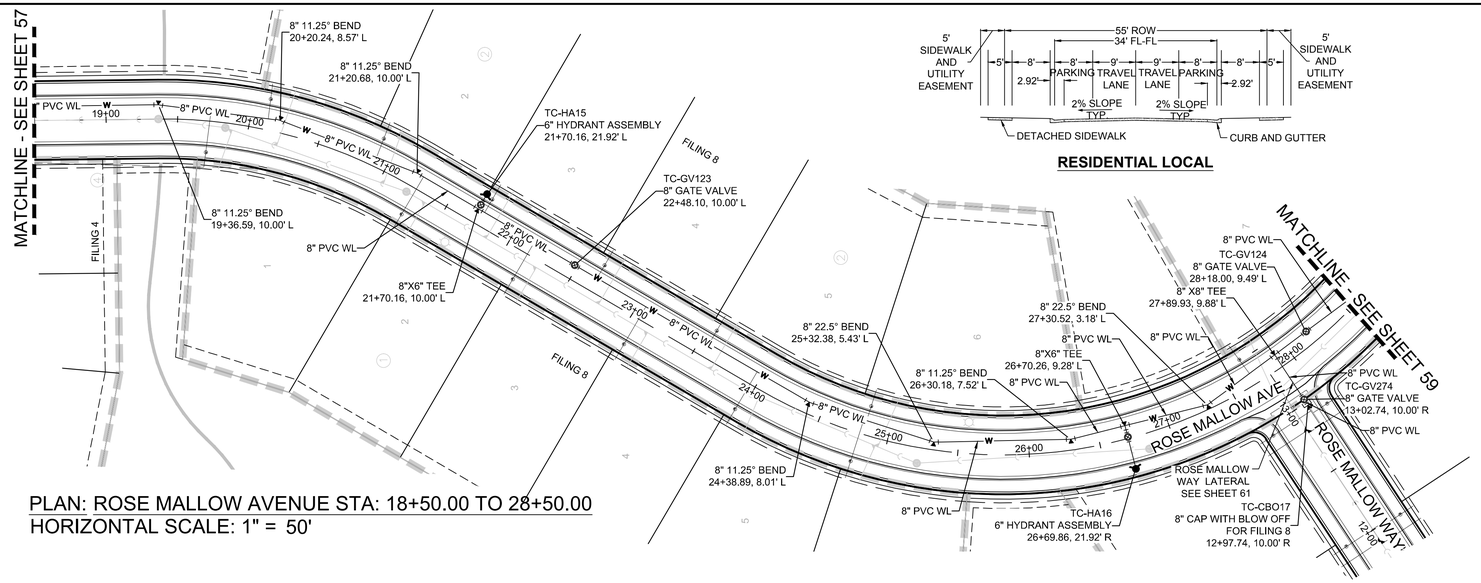
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Tel: (720) 482-9526
Fax: (720) 482-9546
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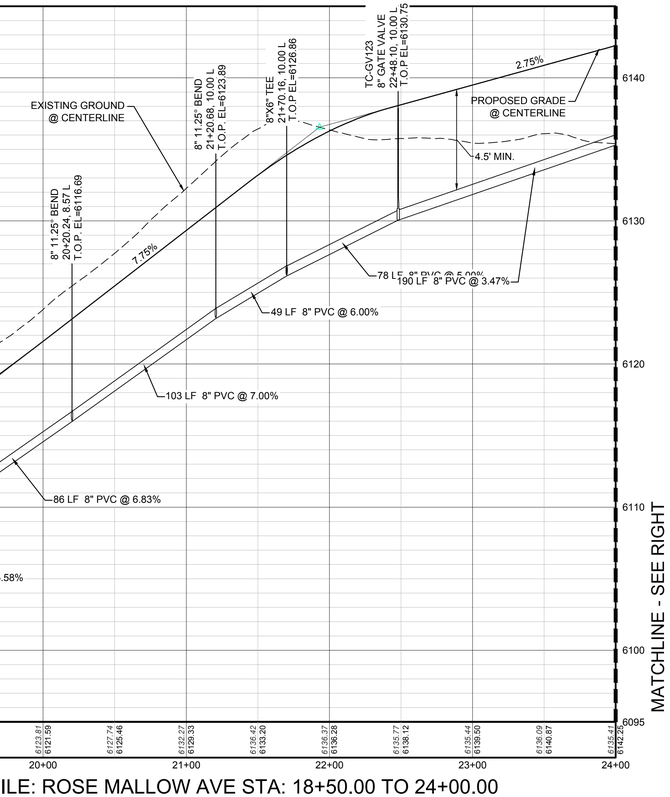
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ROSE MALLOW AVENUE

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CHECKED BY:	JJJ		
DATE:	APRIL 2017		
SHEET NUMBER	57		

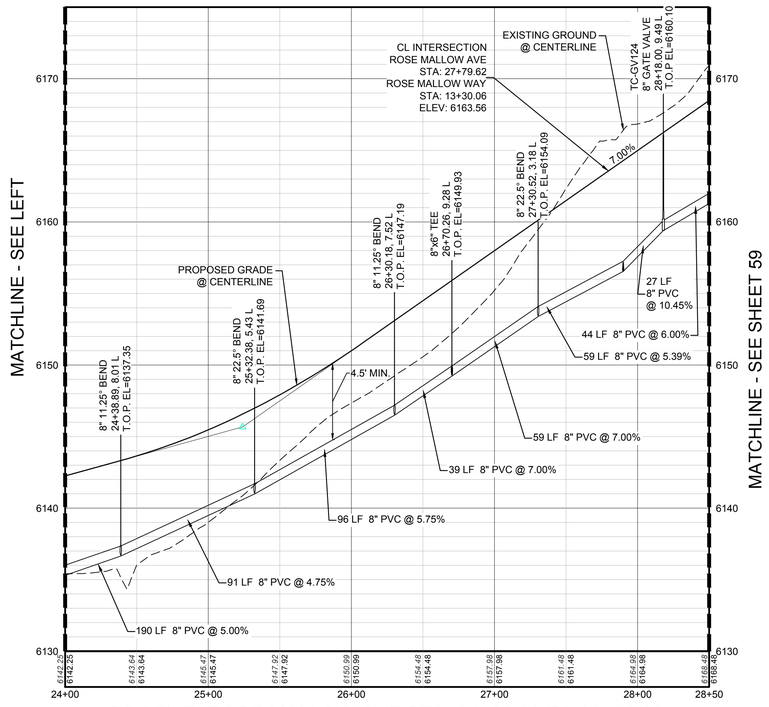
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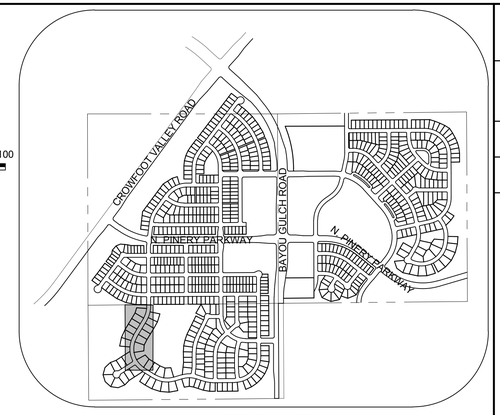
PLAN: ROSE MALLOW AVENUE STA: 18+50.00 TO 28+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ROSE MALLOW AVE STA: 18+50.00 TO 24+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW AVE STA: 24+00.00 TO 28+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

RESIDENTIAL LOCAL

50 25 0 50 100
SCALE: 1" = 50'

LEGEND

- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
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- FO EXISTING FIBER OPTIC LINE
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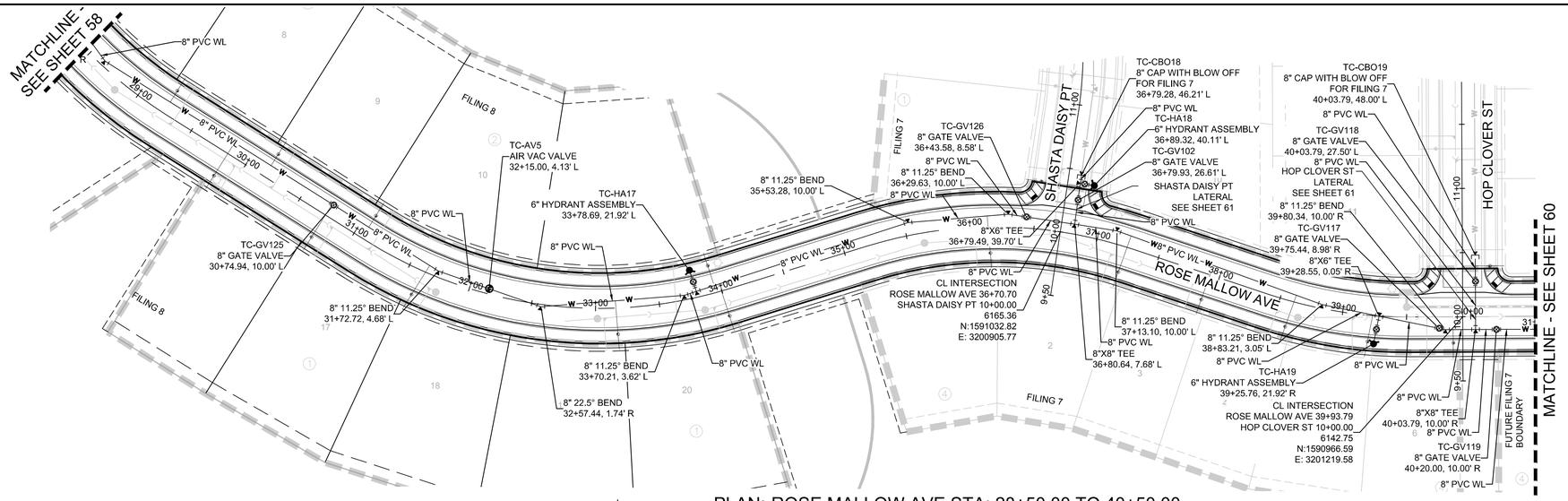
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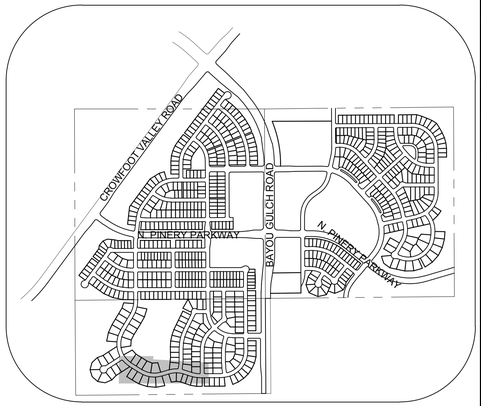
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WATER PLAN & PROFILE
ROSE MALLOW AVENUE

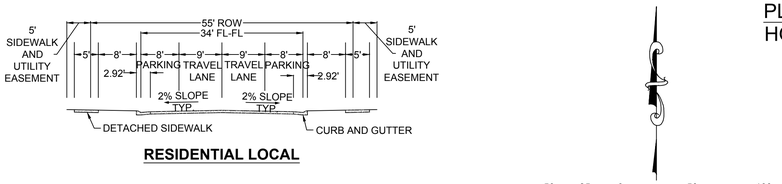
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DATE: APRIL 2017
SHEET NUMBER 58

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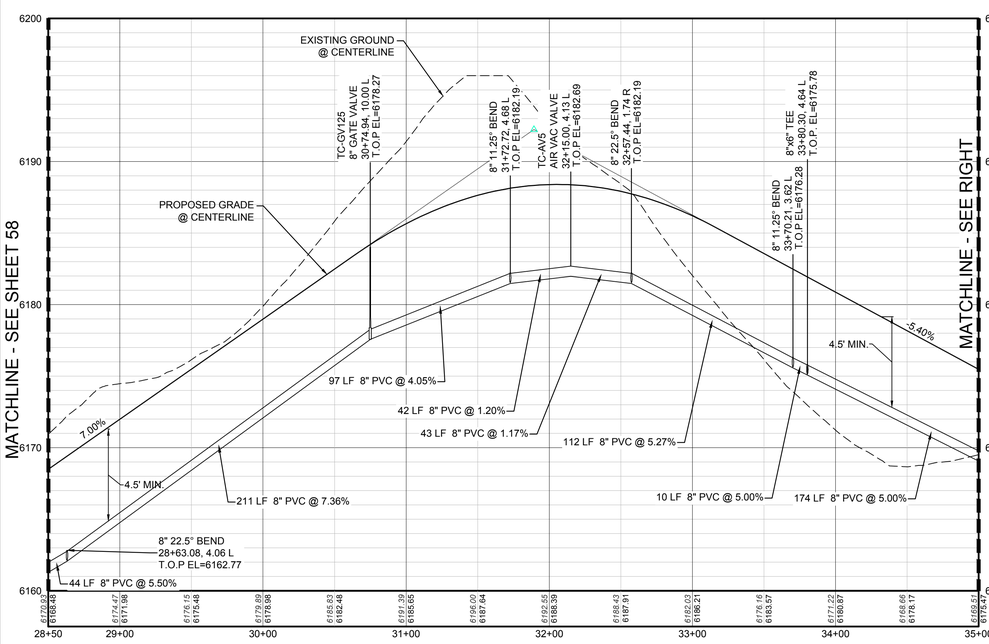
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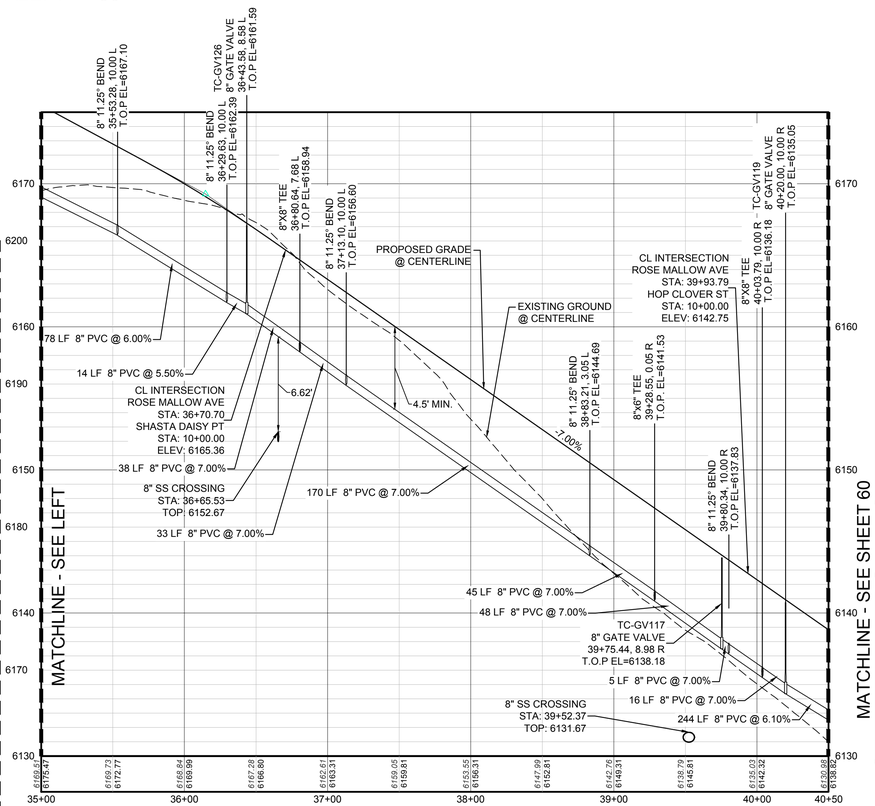
RESIDENTIAL LOCAL

PLAN: ROSE MALLOW AVE STA: 28+50.00 TO 40+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100
SCALE: 1" = 50'



PROFILE: ROSE MALLOW AVE STA: 28+50.00 TO 35+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: ROSE MALLOW AVE STA: 35+00.00 TO 40+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	EXISTING TELEPHONE LINE

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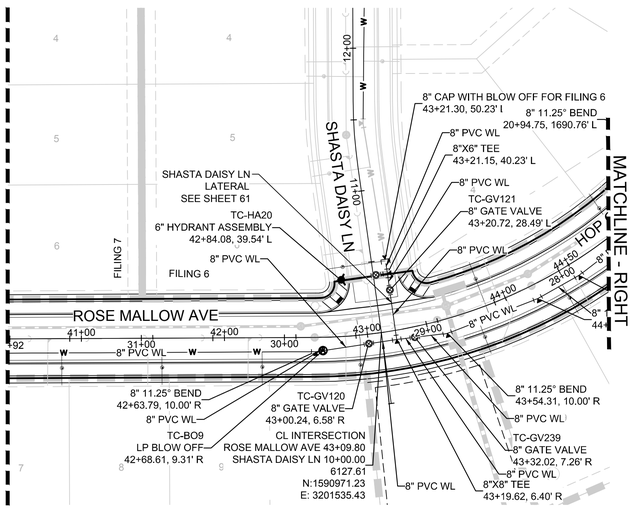
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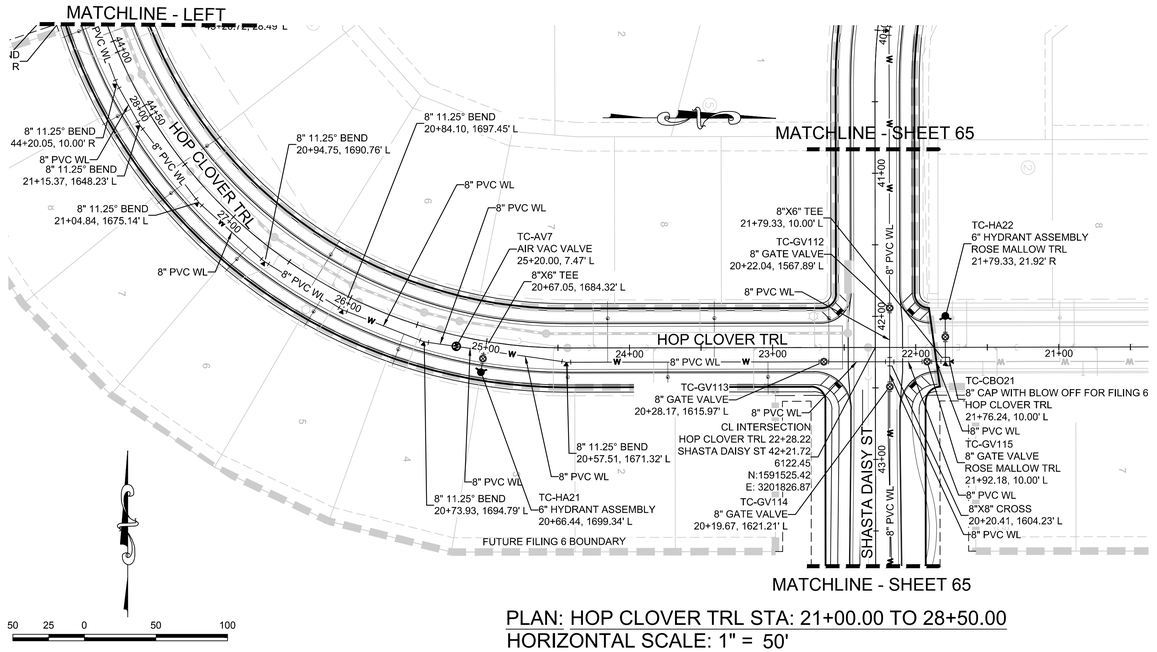
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ROSE MALLOW AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 59

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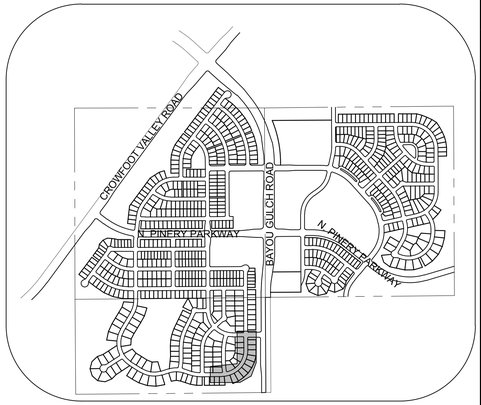


PLAN: ROSE MALLOW AVE STA: 40+50.00 TO 44+00.00
HORIZONTAL SCALE: 1" = 50'



PLAN: HOP CLOVER TRL STA: 21+00.00 TO 28+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100
SCALE: 1" = 50'



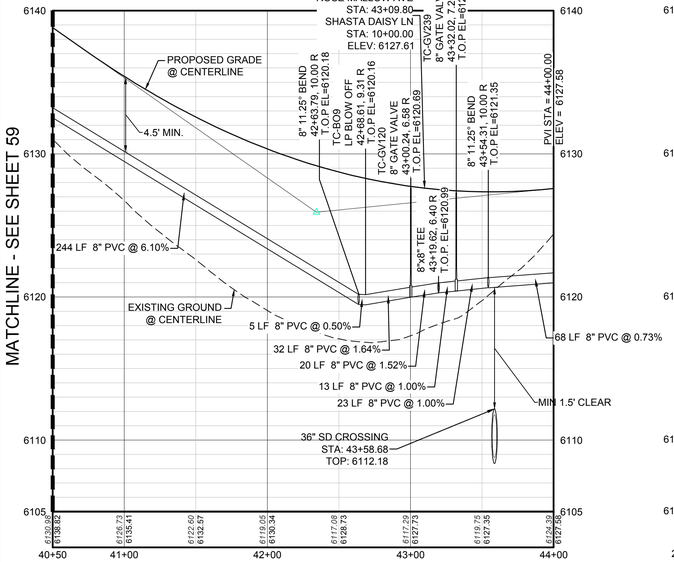
KEYMAP
N.T.S.

LEGEND

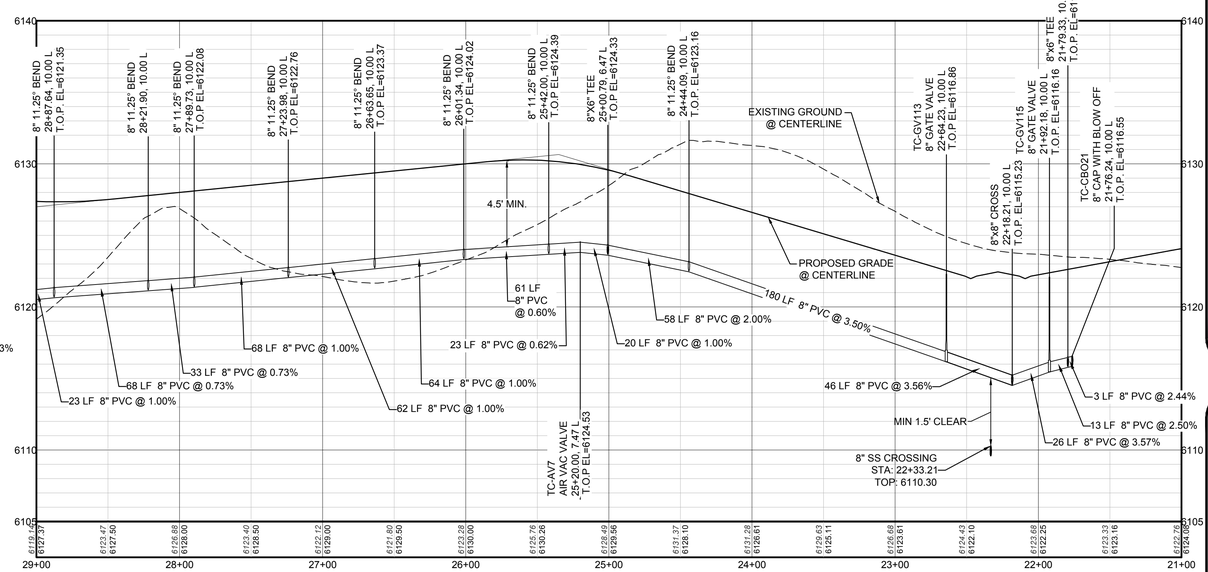
(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
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	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

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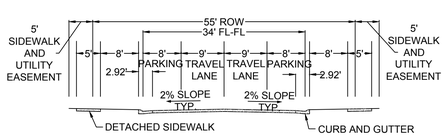
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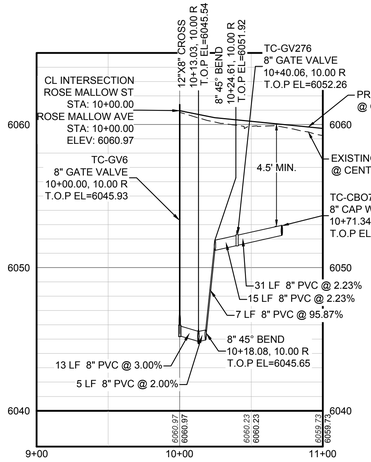
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SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 60

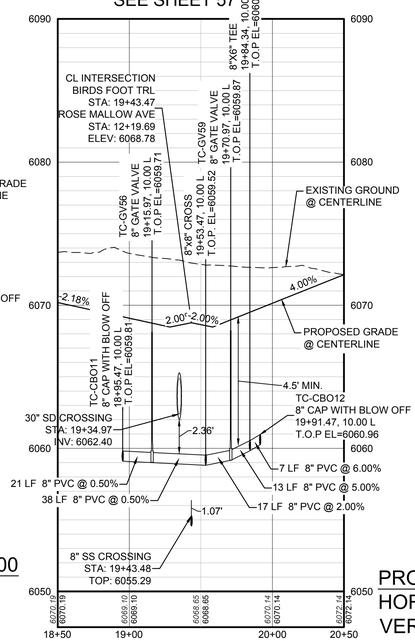
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ROSE MALLOW ST LATERAL
SEE SHEET 57



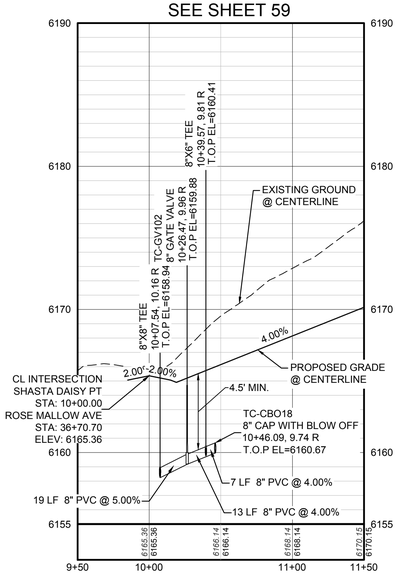
PROFILE: ROSE MALLOW ST STA: 9+00.00 TO 11+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BIRDS FOOT TRL LATERAL
SEE SHEET 57



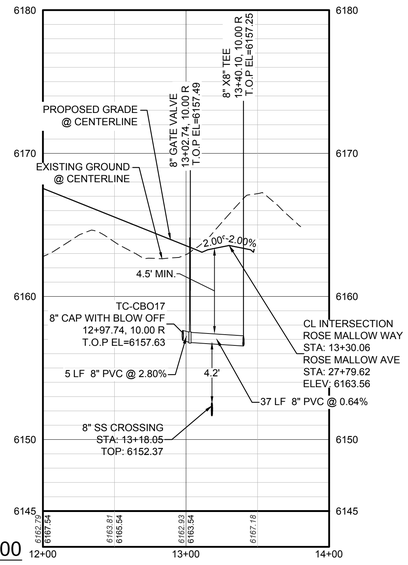
PROFILE: BIRDS FOOT TRL STA: 18+50.00 TO 20+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SHASTA DAISY PT LATERAL
SEE SHEET 59

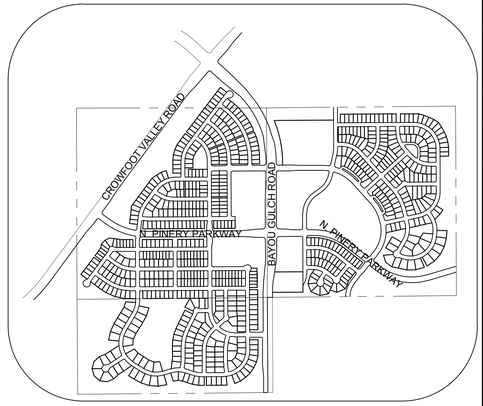


PROFILE: SHASTA DAISY PT STA: 9+50.00 TO 11+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

ROSE MALLOW WAY LATERAL
SEE SHEET 58



PROFILE: ROSE MALLOW WAY STA: 12+00.00 TO 14+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

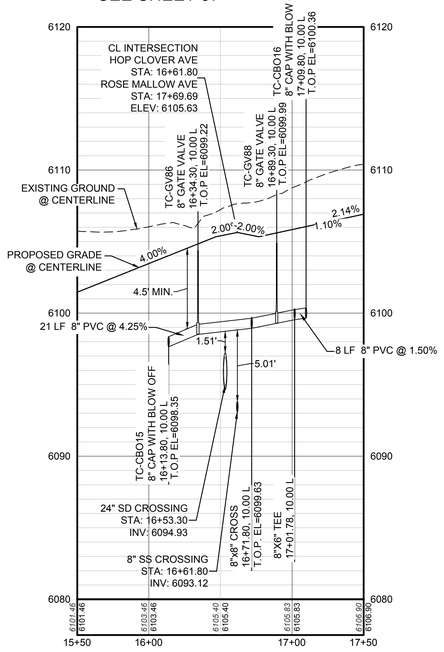
LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

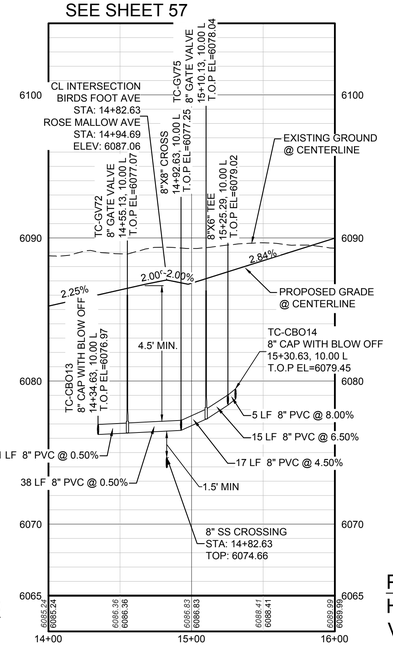
AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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

HOP CLOVER AVE LATERAL
SEE SHEET 57



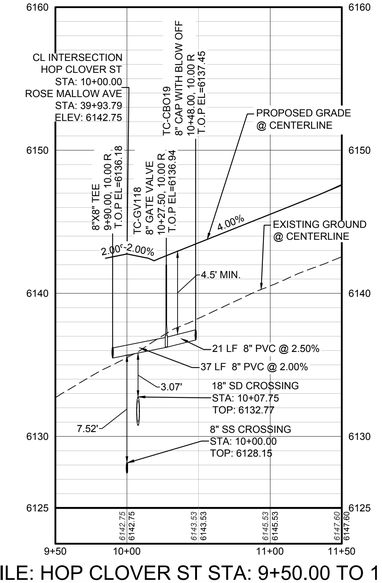
PROFILE: HOP CLOVER AVE STA: 15+50.00 TO 17+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BIRDS FOOT AVE LATERAL
SEE SHEET 57



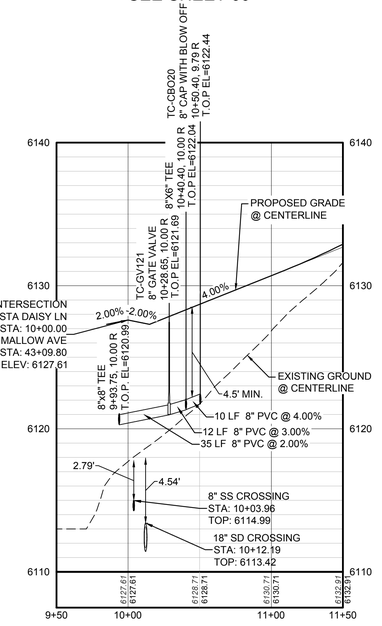
PROFILE: BIRDS FOOT AVE STA: 14+00.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

HOP CLOVER ST LATERAL SEE SHEET 59



PROFILE: HOP CLOVER ST STA: 9+50.00 TO 11+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SHASTA DAISY LN LATERAL
SEE SHEET 60



PROFILE: SHASTA DAISY LN STA: 9+50.00 TO 11+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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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

No.	Revisions	Date	Init.	Appr.	Date

10339 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

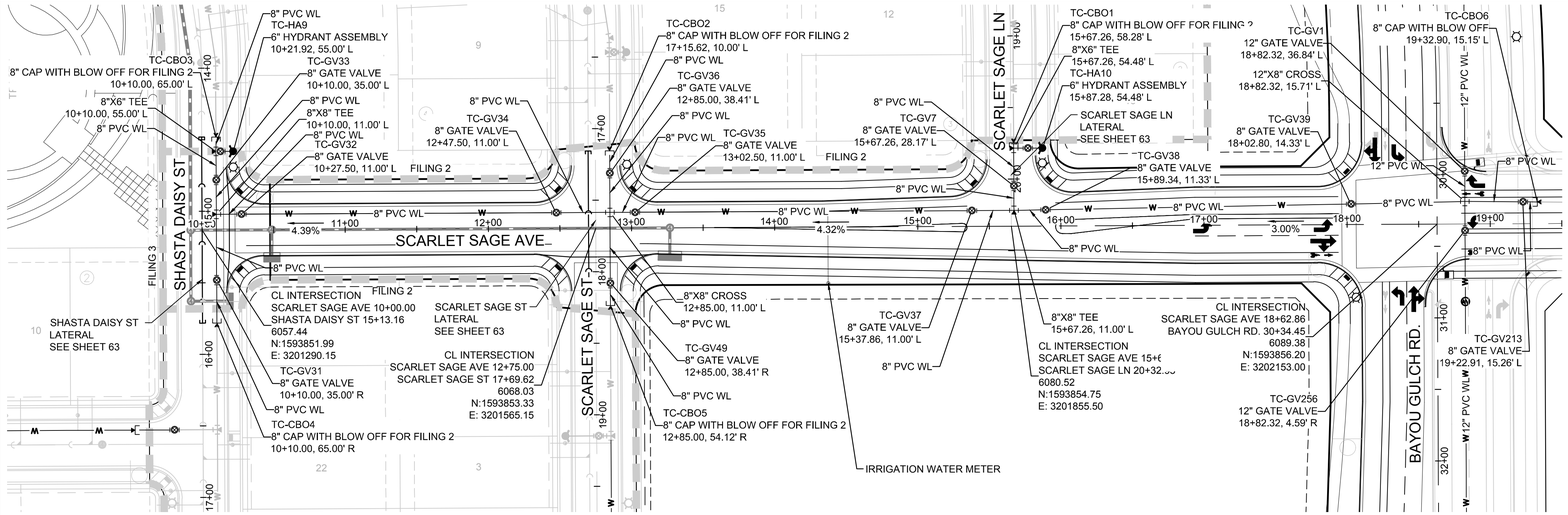
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ROSE MALLOW AVENUE LATERALS

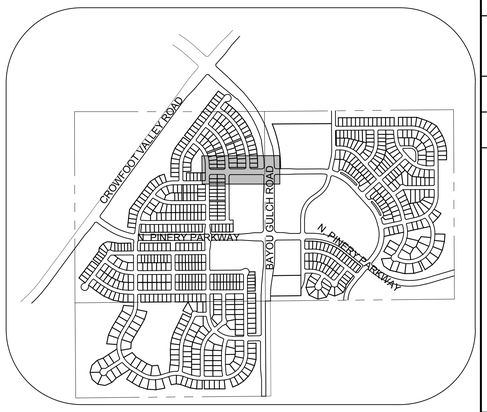
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DRAWN BY:	RHR		
CHECKED BY:	JJJ		
DATE:	APRIL 2017		

SHEET NUMBER 61

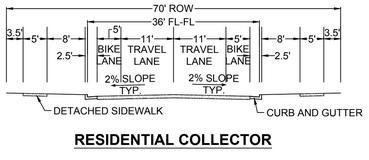
N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\5F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 ROSE MALLOW AVENUE WATER.DWG, BRIANW, 12/7/2017 10:14 PM



PLAN: SCARLET SAGE AVE STA: 10+00.00 TO 29+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.



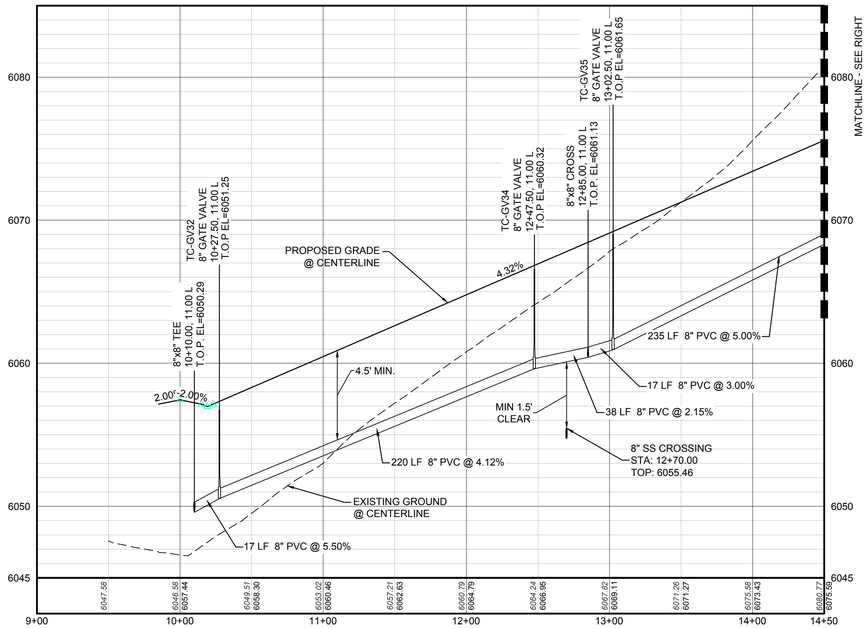
RESIDENTIAL COLLECTOR

LEGEND

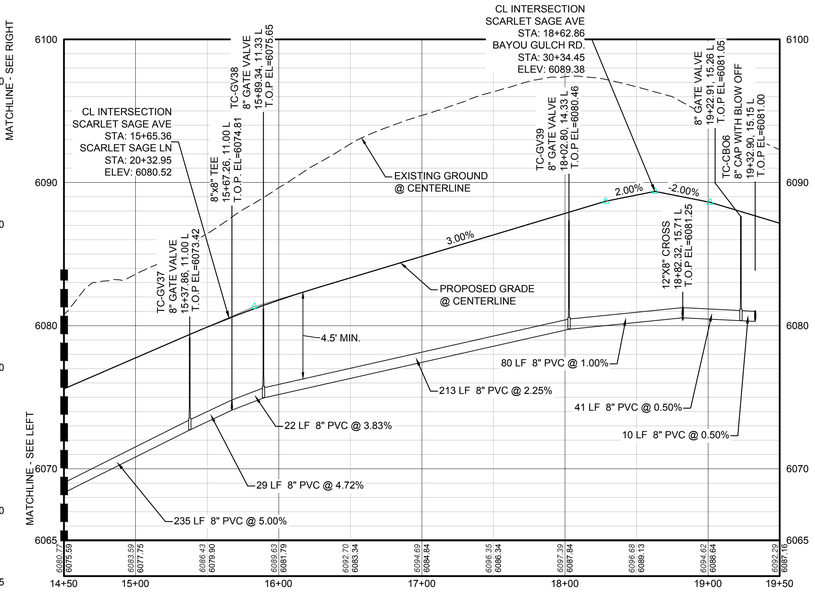
BLOCK NUMBER	PROPOSED RANGE POINT
LOT TYPE	CENTERLINE
LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	PROPOSED SLOPE & DIRECTION
PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR
PROPOSED 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
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EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
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HA	HYDRANT ASSEMBLY	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



PROFILE: SCARLET SAGE AVE STA: 9+00.00 TO 14+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: SCARLET SAGE AVE STA: 14+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

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1-800-922-1987

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CO2\SF1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 SCARLET SAGE AVENUE WATER.DWG, BRIANW, 12/7/2017 10:17 PM

No.	Revisions	Date	Init.	Appr.	Date

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

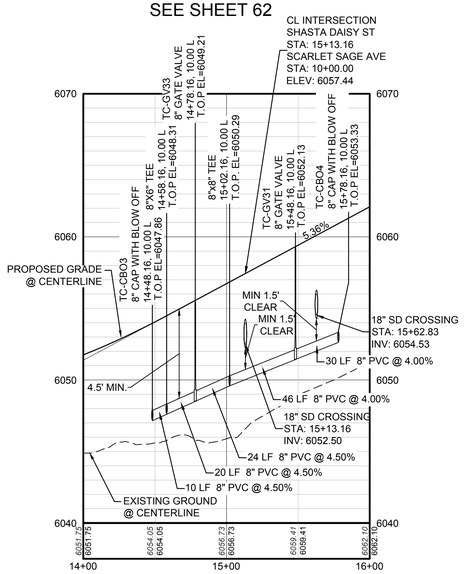
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SCARLET SAGE AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017

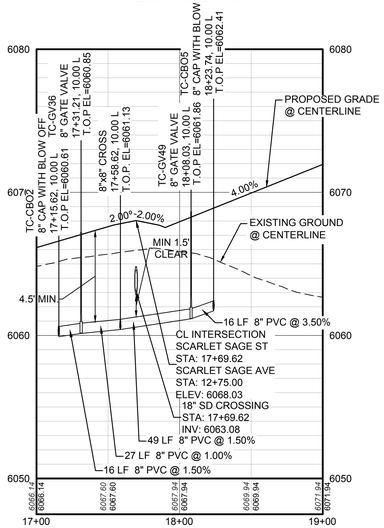
SHEET NUMBER 62

SHASTA DAISY ST LATERAL
SEE SHEET 62



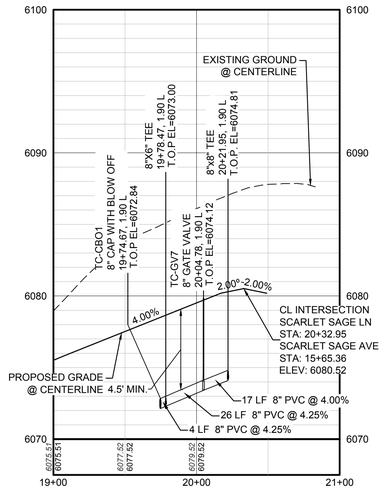
PROFILE: SHASTA DAISY ST STA: 14+00.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SCARLET SAGE ST LATERAL
SEE SHEET 62

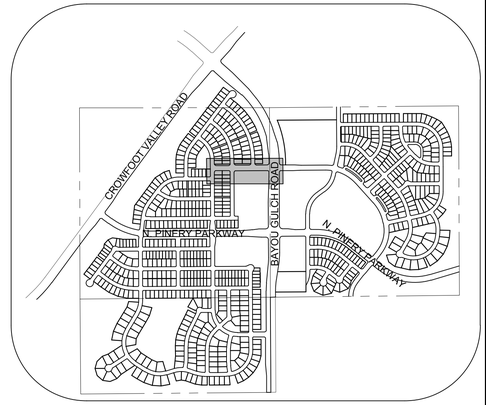


PROFILE: SCARLET SAGE ST STA: 17+00.00 TO 19+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SCARLET SAGE LN LATERAL
SEE SHEET 62



PROFILE: SCARLET SAGE LN STA: 19+00.00 TO 21+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
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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 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

No.	Revisions	Date	Init.	Appr.	Date

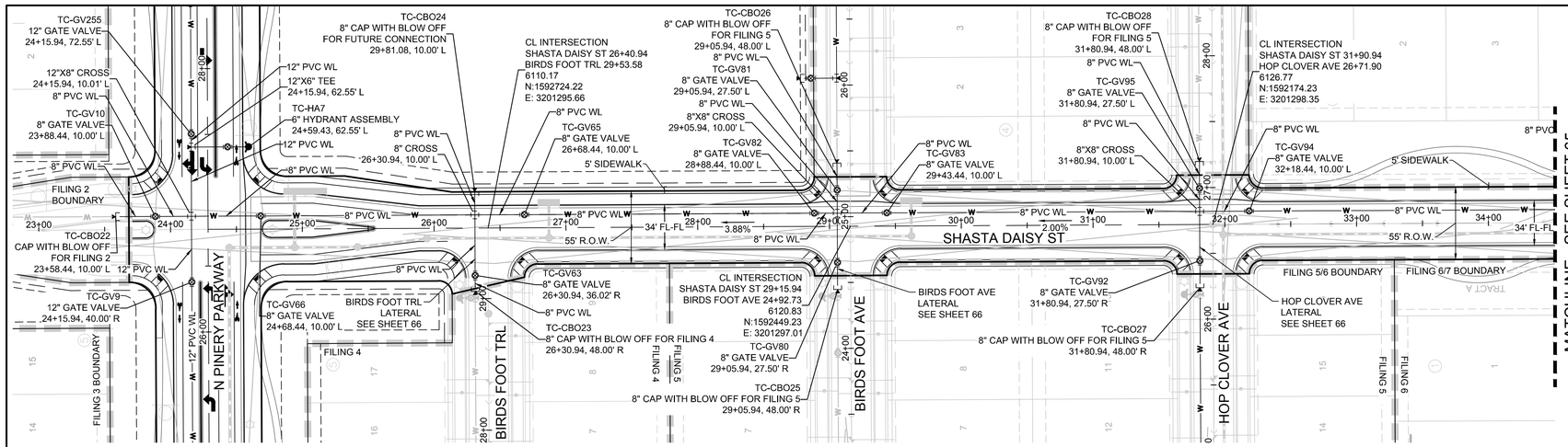
10333 E. Dry Creek Rd.
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CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SCARLET SAGE AVENUE LATERALS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 63

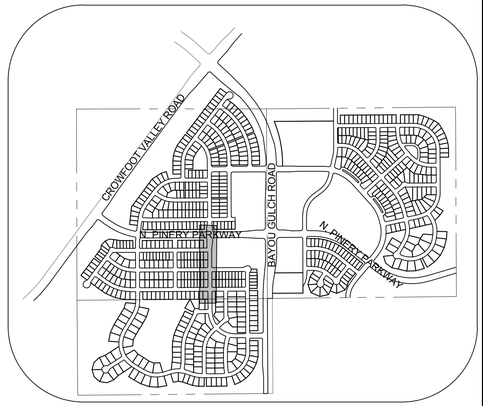
N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 SCARLET SAGE AVENUE WATER.DWG, BRIANW, 12/7/2017 10:17 PM



PLAN: SHASTA DAISY ST STA: 23+00.00 TO 34+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



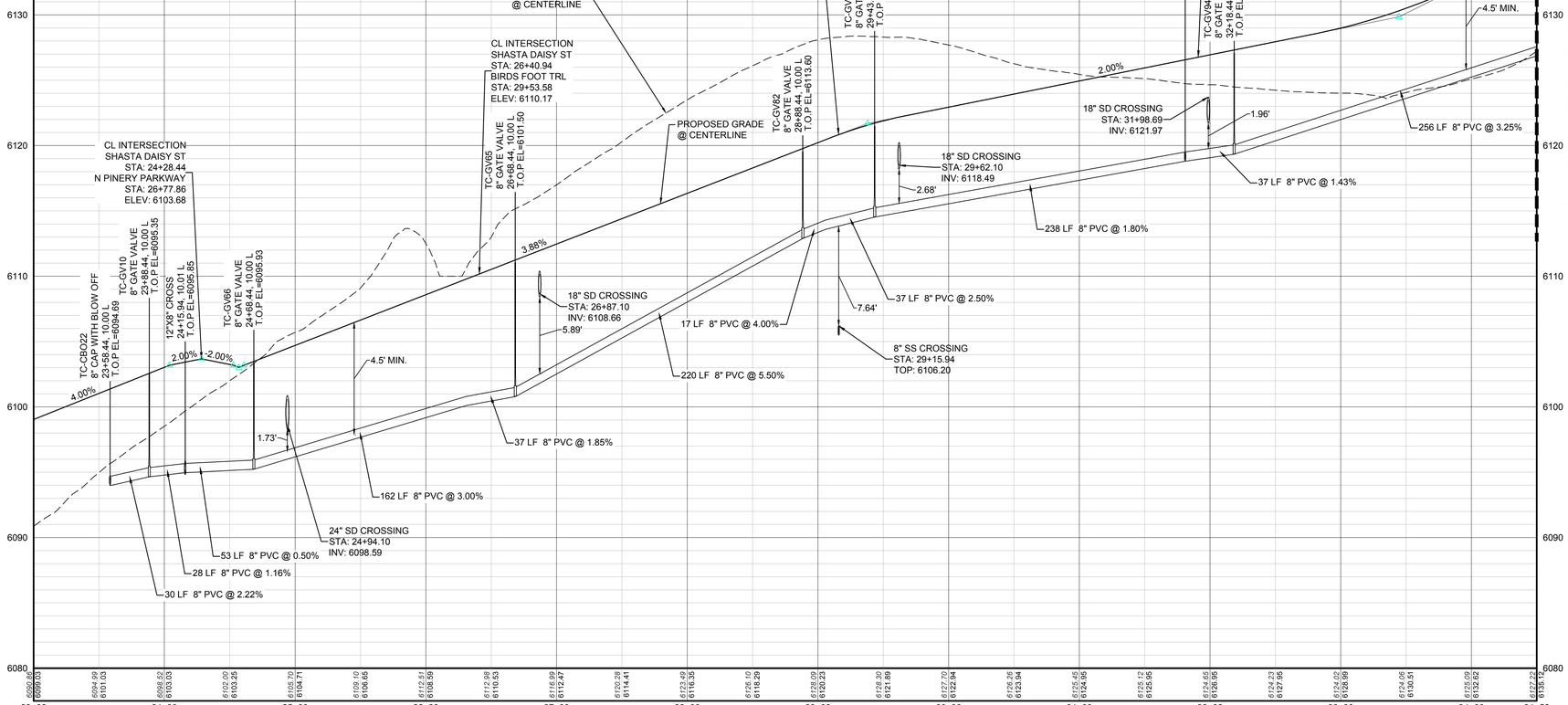
KEYMAP
N.T.S.

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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



PROFILE: SHASTA DAISY ST STA: 23+00.00 TO 34+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

CALL 811
TWO WORKING DAYS
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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

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

No.	Revisions	Date	Init.	Appr.	Date

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

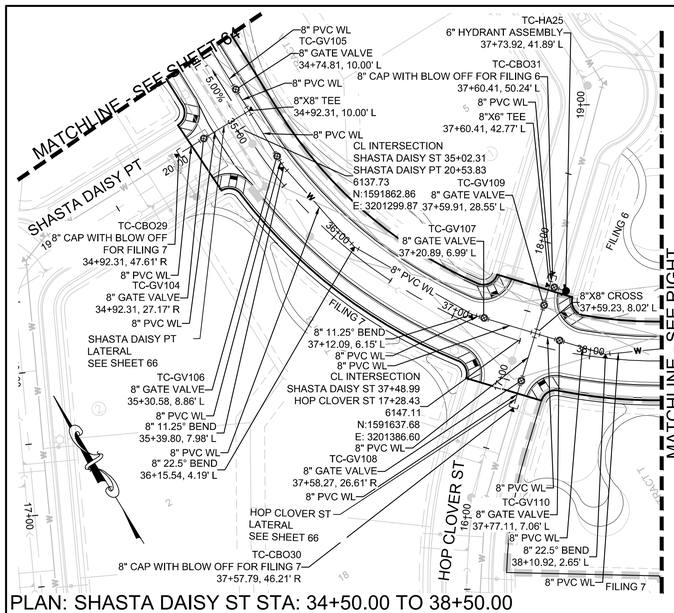
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SHASTA DAISY STREET

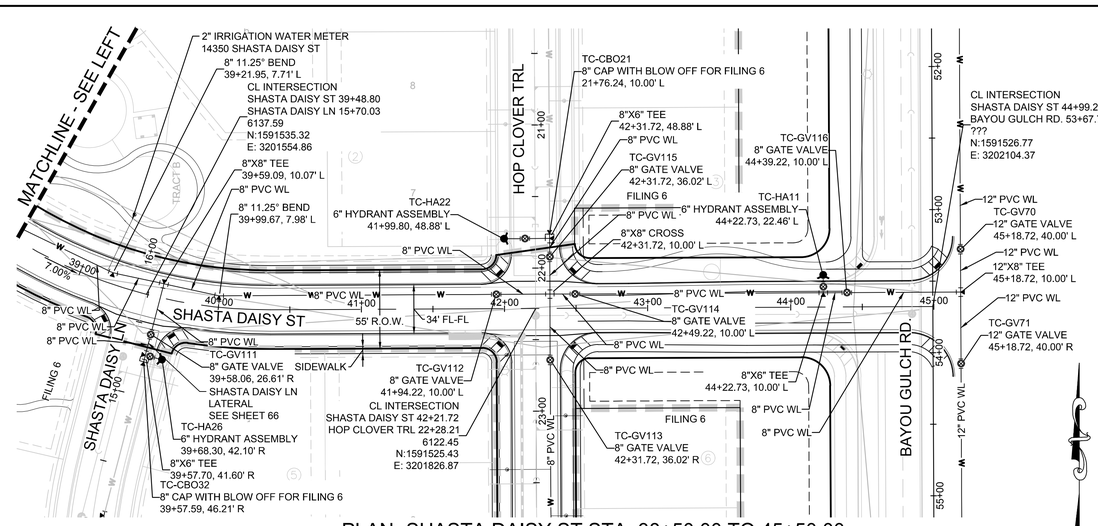
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CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 64

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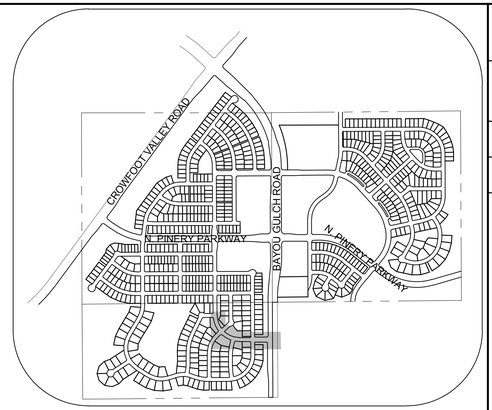


PLAN: SHASTA DAISY ST STA: 34+50.00 TO 38+50.00
HORIZONTAL SCALE: 1" = 50'



PLAN: SHASTA DAISY ST STA: 38+50.00 TO 45+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100
SCALE: 1" = 50'



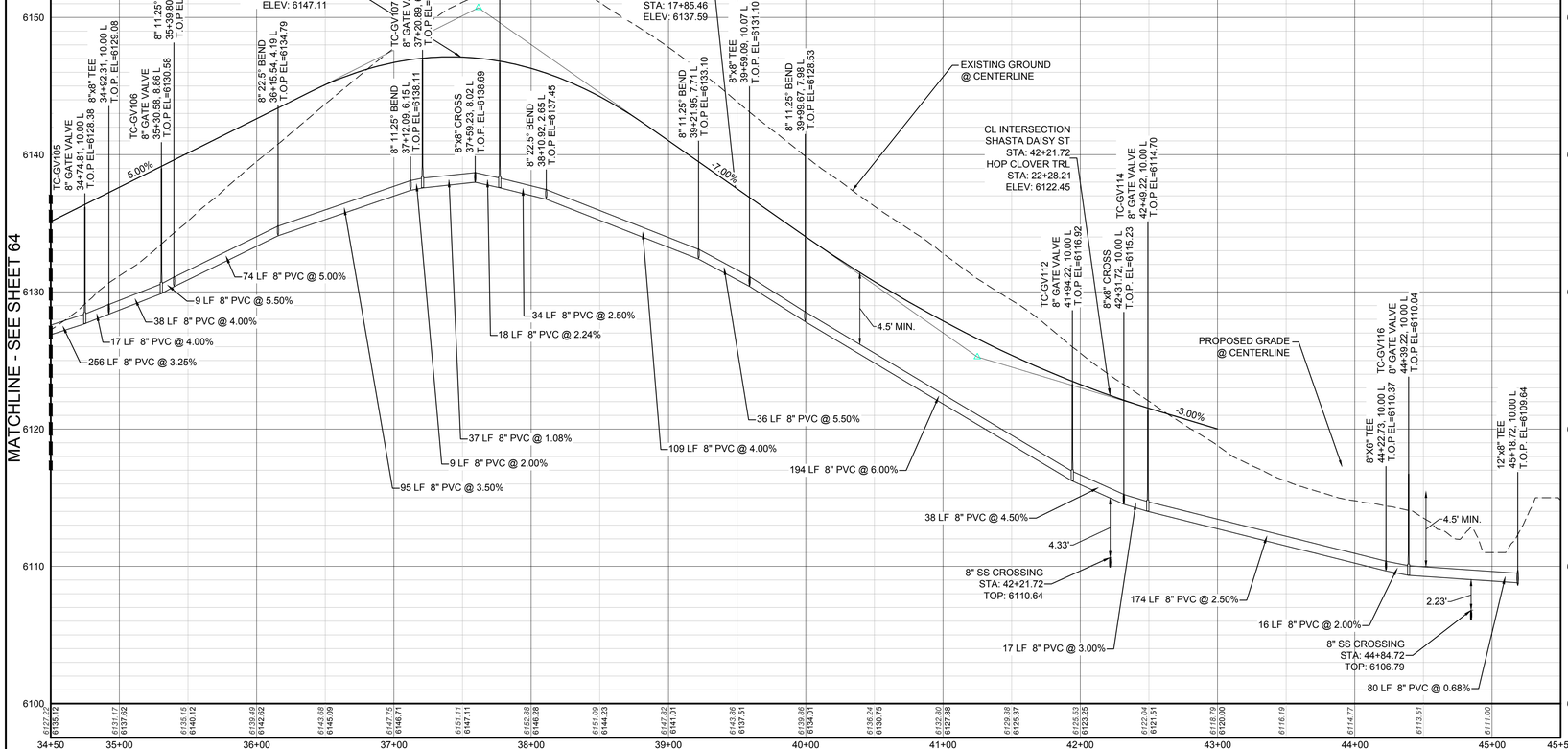
KEYMAP
N.T.S.

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 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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	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
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FL	FLOW LINE	SS	SANITARY SEWER
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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



PROFILE: SHASTA DAISY ST STA: 34+50.00 TO 45+50.00
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ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

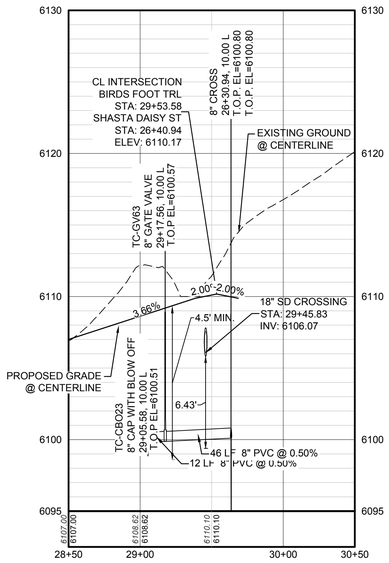
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SHASTA DAISY STREET

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 65

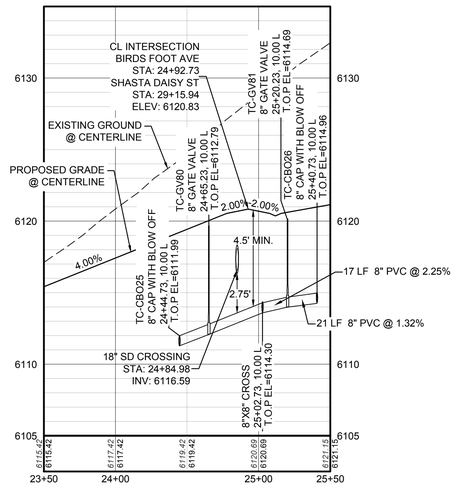
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BIRDS FOOT TRL LATERAL
SEE SHEET 64



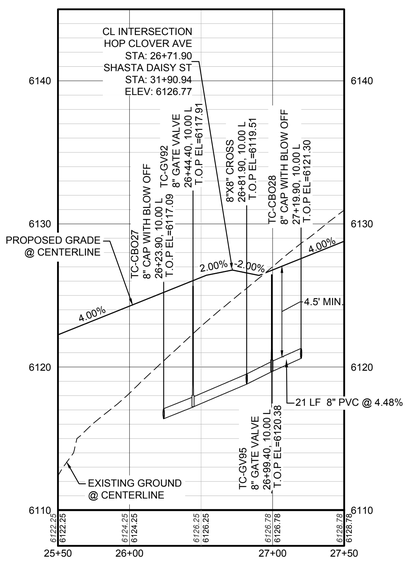
PROFILE: BIRDS FOOT TRL STA: 28+50.00 TO 30+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BIRDS FOOT AVE LATERAL
SEE SHEET 64

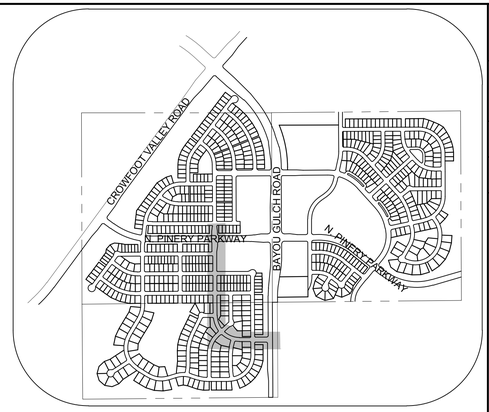


PROFILE: BIRDS FOOT AVE STA: 23+50.00 TO 25+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

HOP CLOVER AVE LATERAL
SEE SHEET 64



PROFILE: HOP CLOVER AVE STA: 25+50.00 TO 27+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.

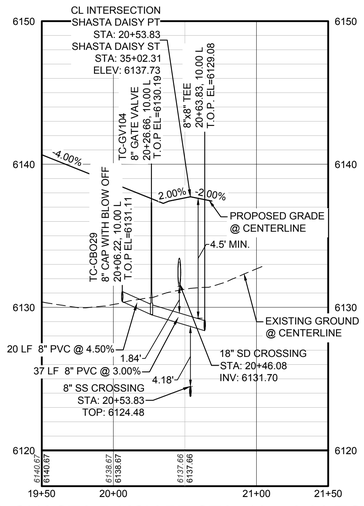
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

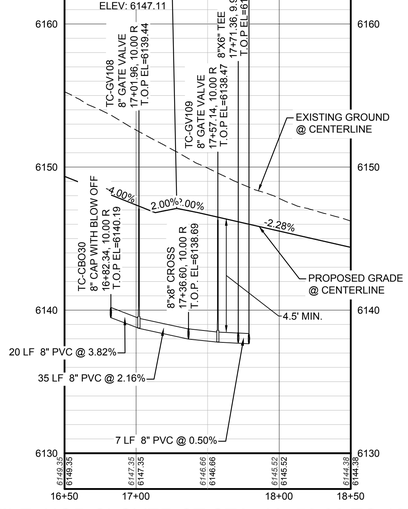
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K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SHASTA DAISY PT LATERAL
SEE SHEET 65



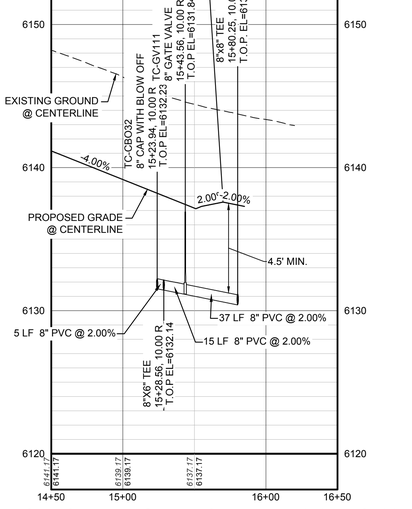
PROFILE: SHASTA DAISY PT STA: 19+50.00 TO 21+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

HOP CLOVER ST LATERAL
SEE SHEET 65



PROFILE: HOP CLOVER ST STA: 16+50.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SHASTA DAISY LN LATERAL
SEE SHEET 65



PROFILE: SHASTA DAISY LN STA: 14+50.00 TO 16+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

CVL CONSULTANTS
10333 E. Dry Creek Rd.
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No.	Revisions	Date	Init.	Appr.	Date

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SHASTA DAISY STREET LATERALS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 66

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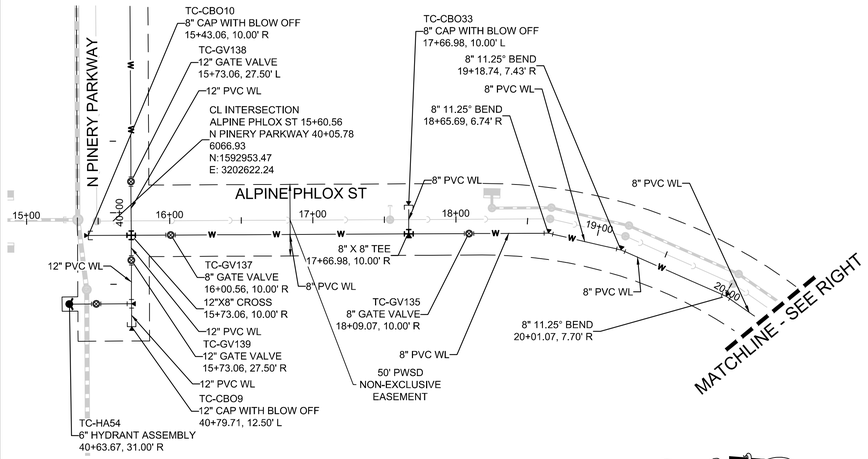
BENCHMARK
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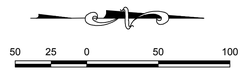
PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

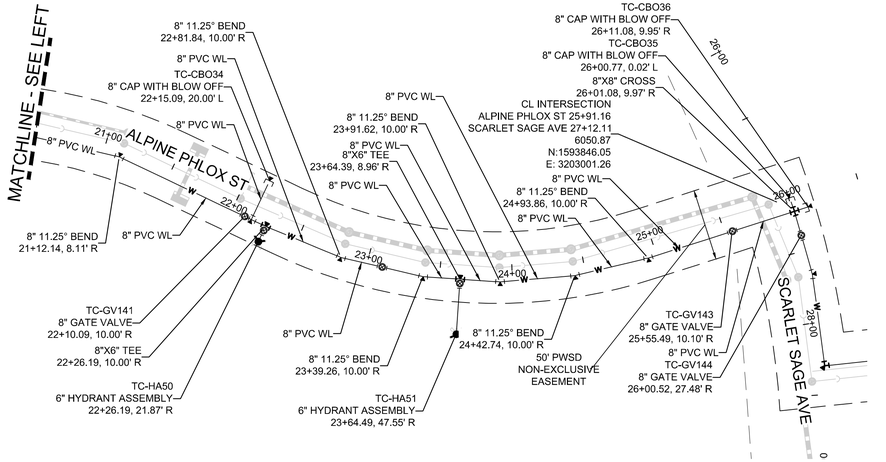
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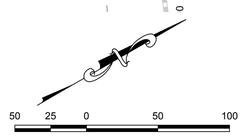
PLAN: ALPINE PHLOX ST STA: 15+00.00 TO 20+50.00
HORIZONTAL SCALE: 1" = 50'



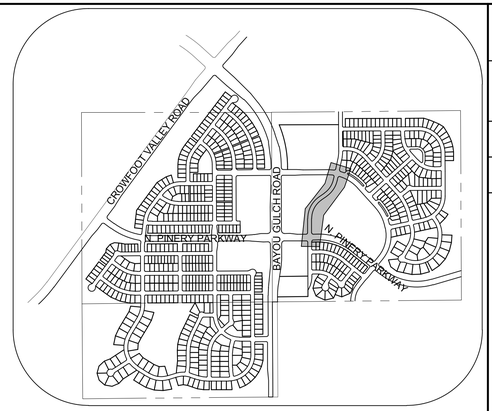
SCALE: 1" = 50'



PLAN: ALPINE PHLOX ST STA: 20+50.00 TO 26+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



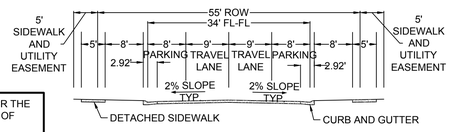
KEYMAP
N.T.S.

LEGEND

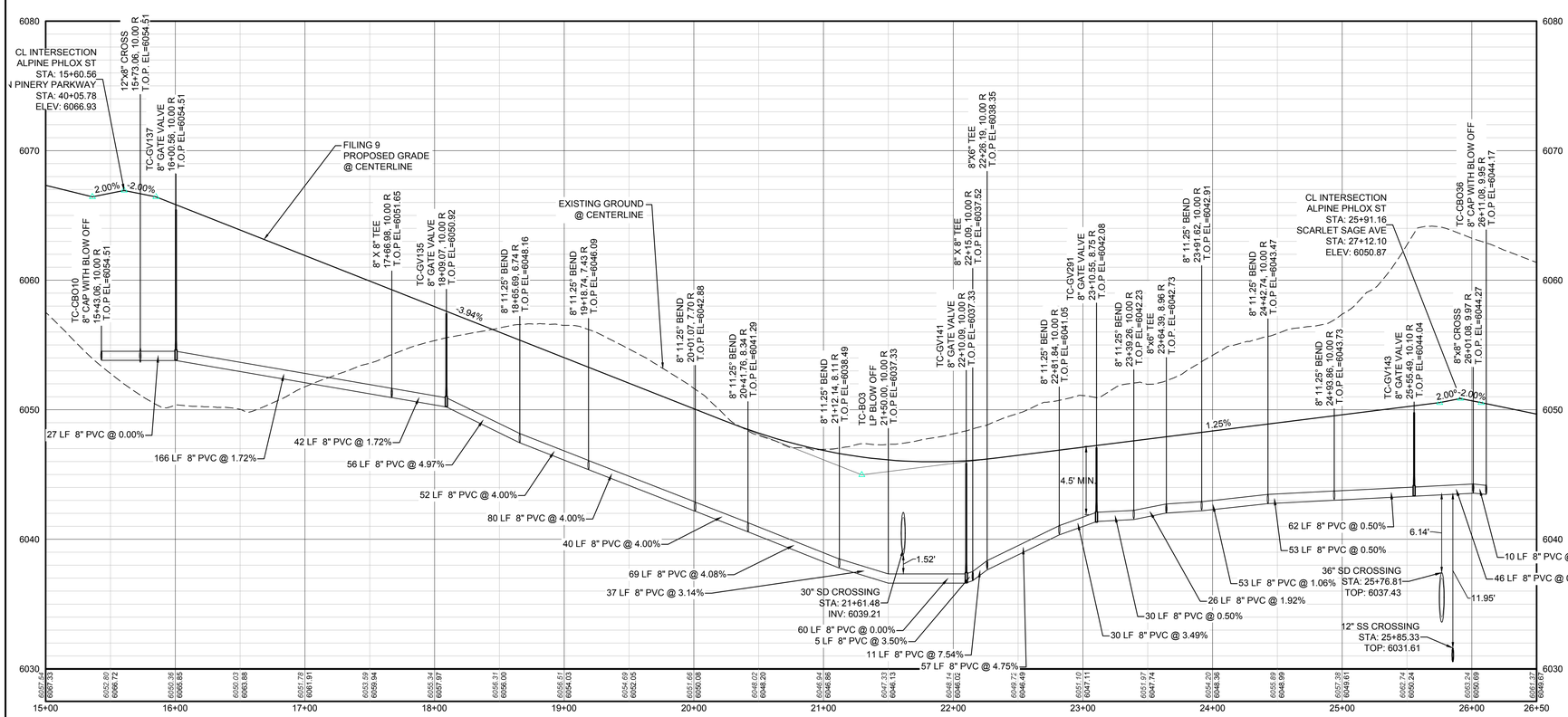
(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
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RESIDENTIAL LOCAL



PROFILE: ALPINE PHLOX ST STA: 15+00.00 TO 26+50.00
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BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

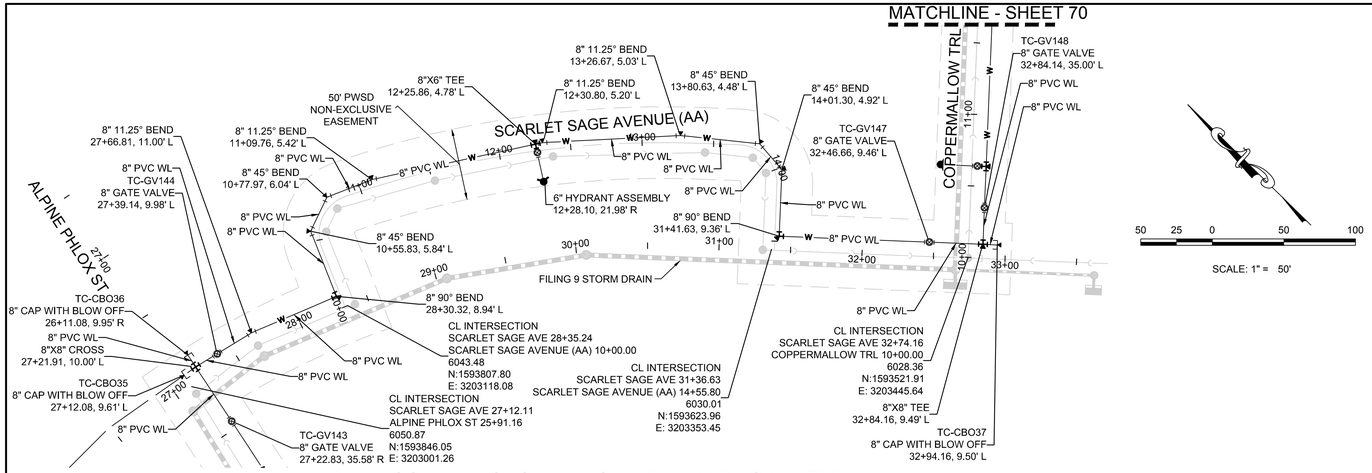
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
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CENTENNIAL, CO 80112

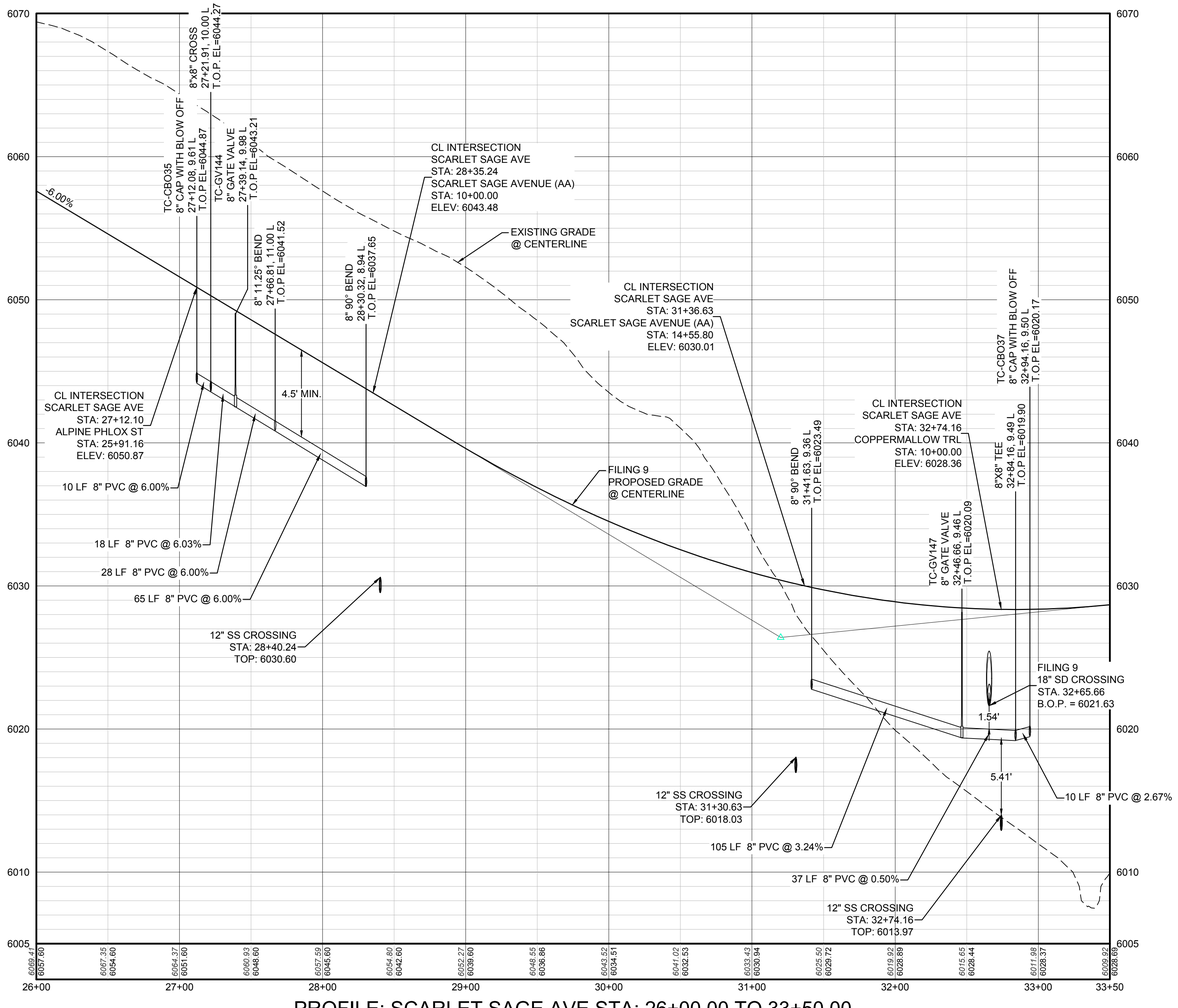
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
ALPINE PHLOX STREET

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 67

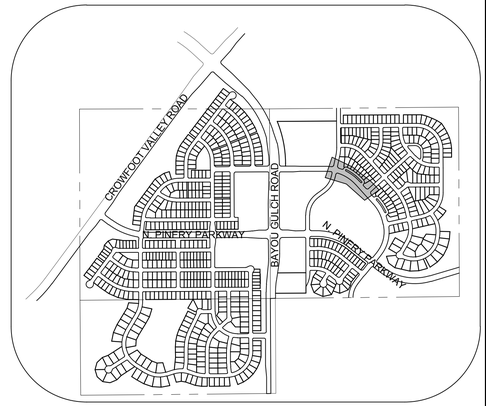
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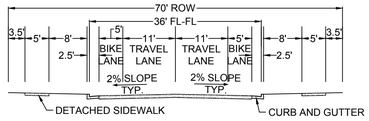
PLAN: SCARLET SAGE AVE STA: 26+00.00 TO 33+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SCARLET SAGE AVE STA: 26+00.00 TO 33+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.



RESIDENTIAL COLLECTOR

LEGEND

2	BLOCK NUMBER		PROPOSED RANGE POINT
A	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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

No.	Revisions	Date	Init.	Appr.	Date

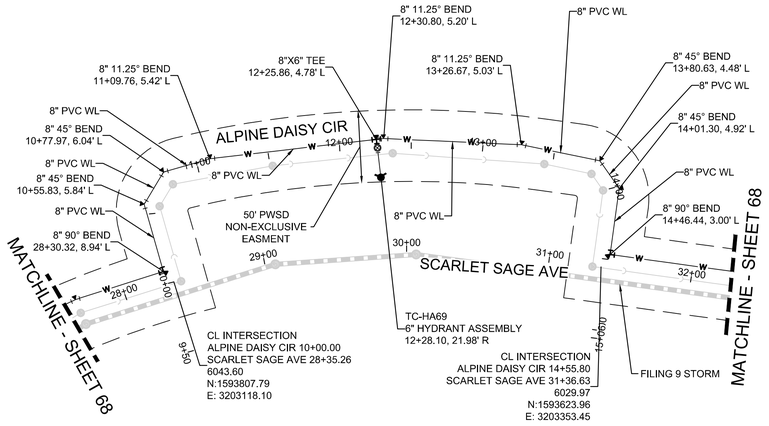
10333 E. Dry Creek Rd.
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Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

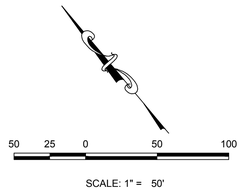
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
SCARLET SAGE AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 68

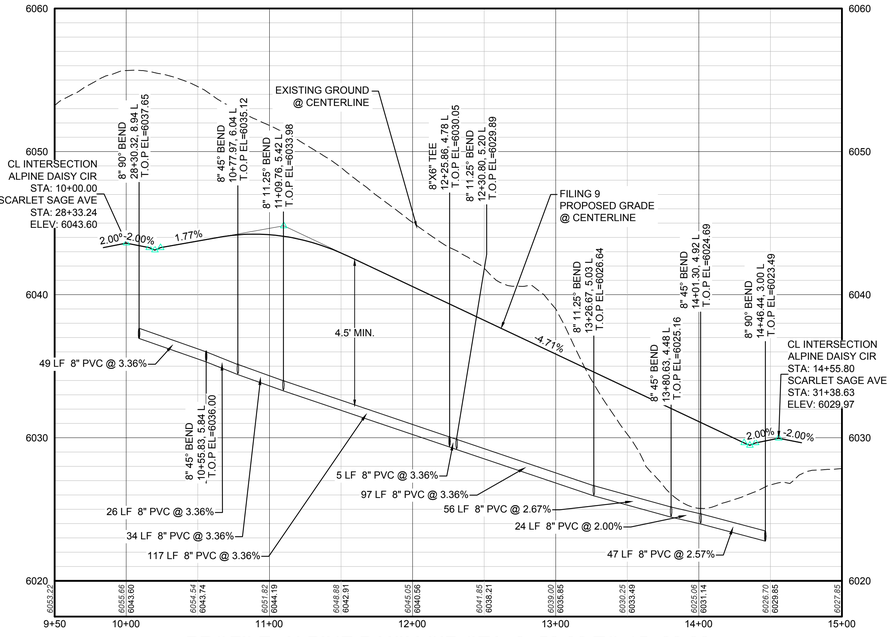
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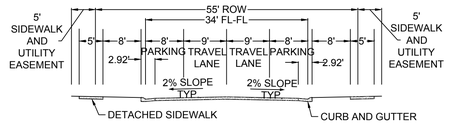
PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



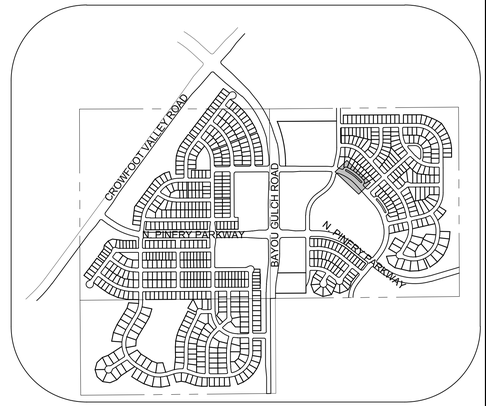
SCALE: 1" = 50'



PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



RESIDENTIAL LOCAL



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER		PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
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	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

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AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
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INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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UNCC UTILITY NOTIFICATION CENTER OF COLORADO

BENCHMARK
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

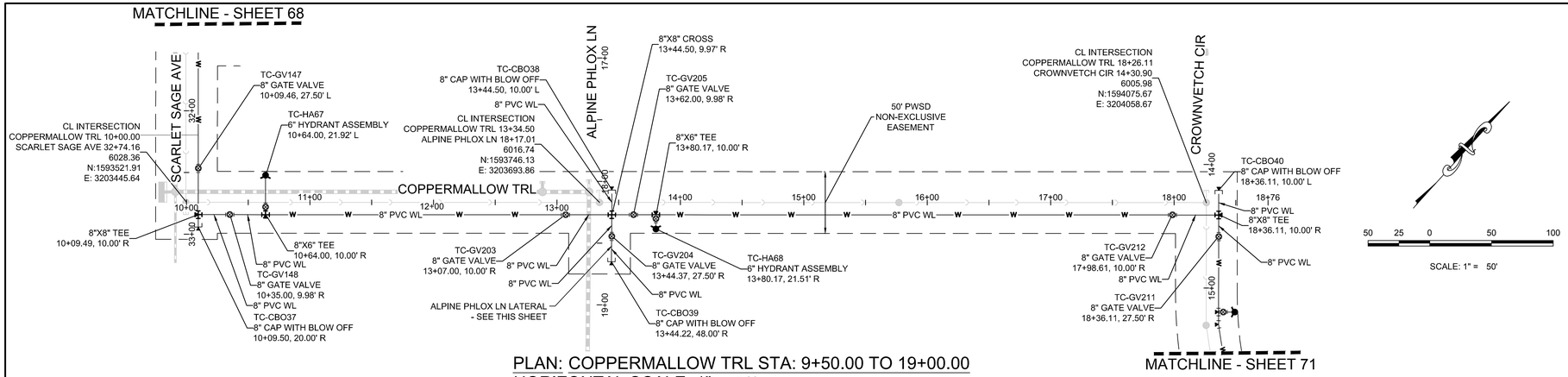
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

E5X MANAGEMENT
7353 South Alton Way
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ALPINE DAISY CIRCLE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 69

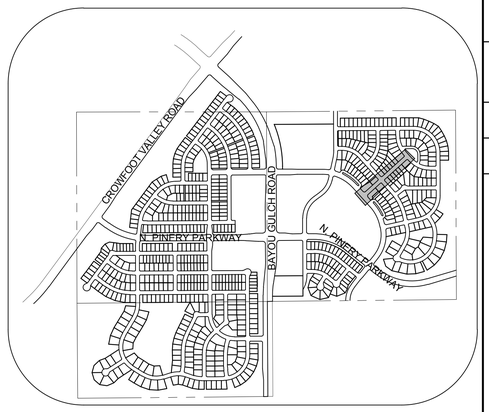
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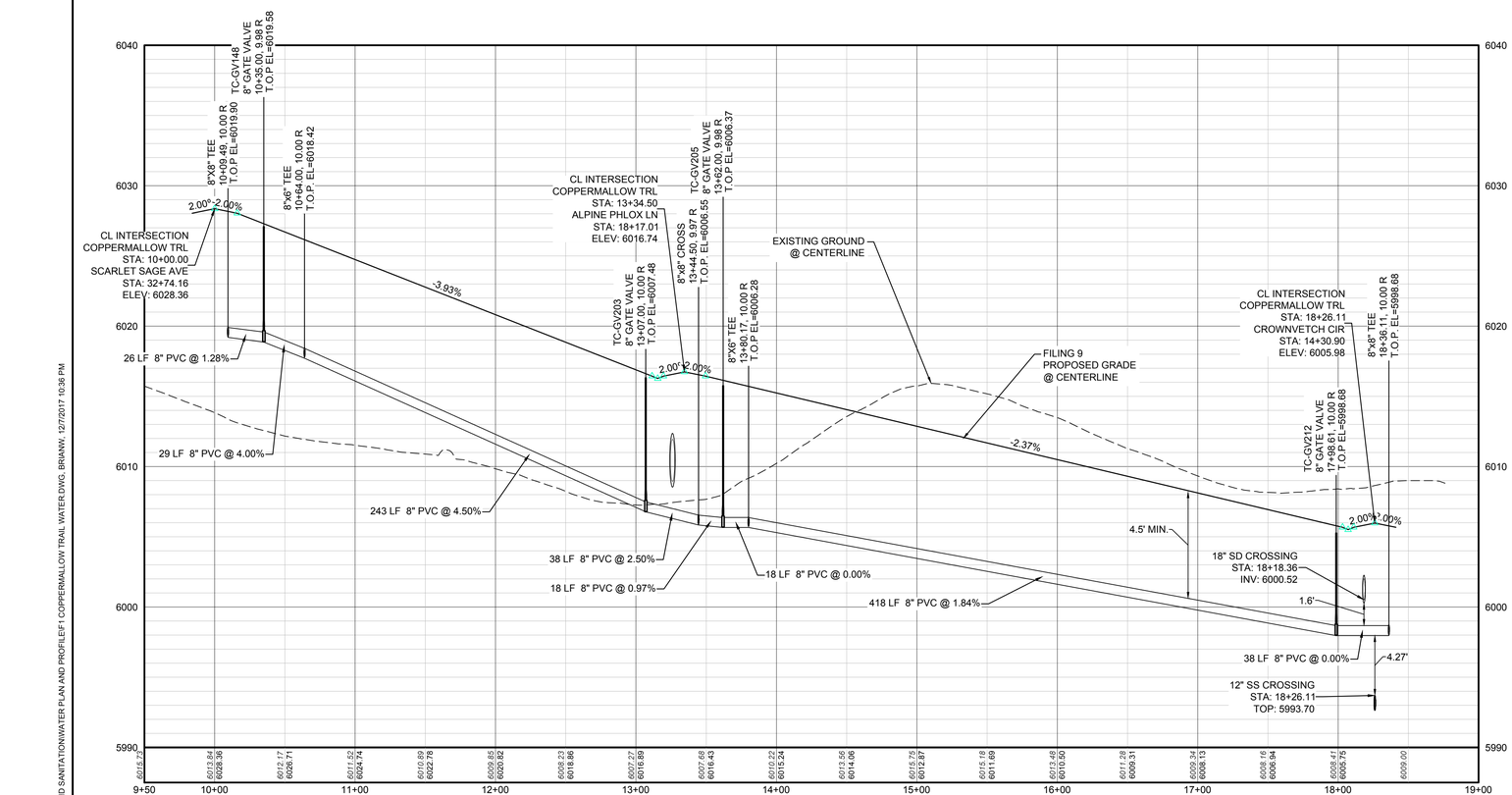
PLAN: COPPERMALLOW TRL STA: 9+50.00 TO 19+00.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

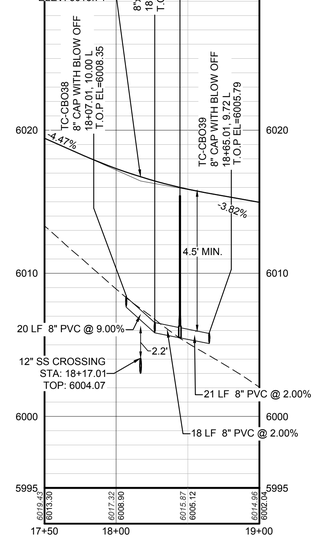


KEYMAP
N.T.S.



PROFILE: COPPERMALLOW TRL STA: 9+50.00 TO 19+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

ALPINE PHLOX LN LATERAL -
SEE THIS SHEET



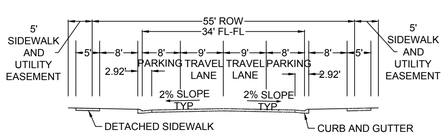
PROFILE: ALPINE PHLOX LN STA: 17+50.00 TO 19+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
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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
PROPOSED DESIGN ELEVATION	EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	EXISTING OVERHEAD POWER
PROPOSED STORM DRAIN MANHOLE	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
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K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
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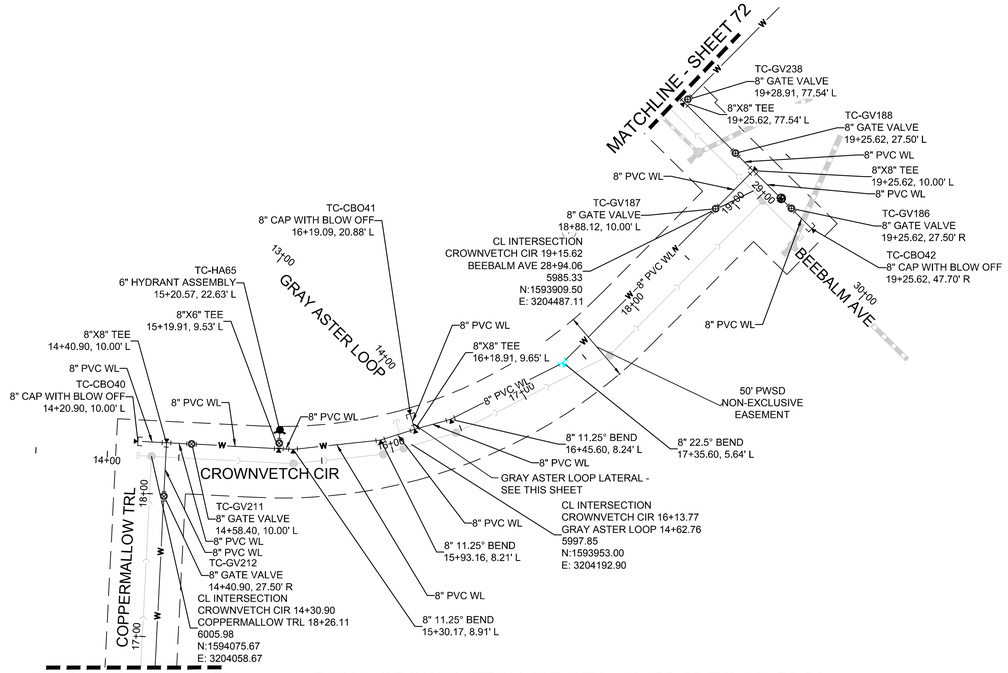
10333 E. Dry Creek Rd.
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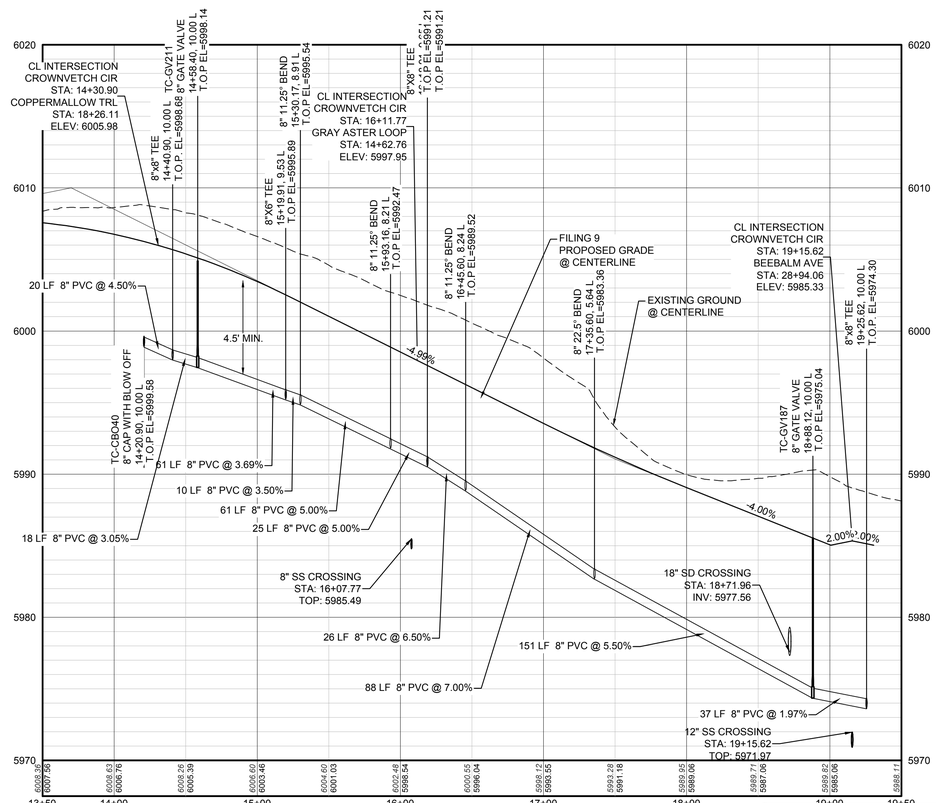
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
COPPERMALLOW TRAIL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 70

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 COPPERMALLOW TRAIL WATER.DWG, BRIANW, 12/7/2017 10:36 PM



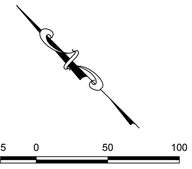
PLAN: CROWNVETCH CIR STA: 13+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



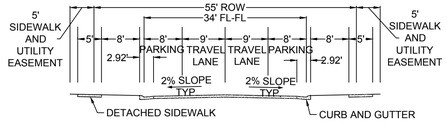
PROFILE: CROWNVETCH CIR STA: 13+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

GRAY ASTER LOOP LATERAL -
SEE THIS SHEET

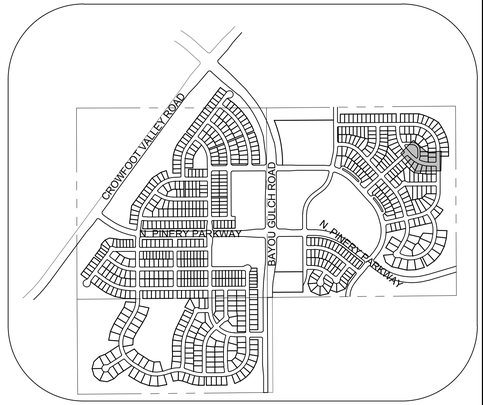
PROFILE: GRAY ASTER LOOP STA: 14+00.00 TO 15+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



SCALE: 1" = 50'



RESIDENTIAL LOCAL



KEYMAP
N.T.S.

LEGEND

BLOCK NUMBER	PROPOSED RANGE POINT
LOT TYPE	CENTERLINE
LOT NUMBER	RIGHT-OF-WAY
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PROPOSED CAP WITH END OF LINE BLOWOFF	EDGE OF PAVEMENT
PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	PROPOSED SLOPE & DIRECTION
PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR
PROPOSED WL FITTING WITH THRUST BLOCK	EXISTING 1' CONTOUR
PROPOSED FLARED END SECTION	PROPOSED 5' CONTOUR
PROPOSED LOW POINT BLOW-OFF	PROPOSED 1' CONTOUR
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FUTURE PHASE VALVE	PROPOSED SEWER LINE WITH MANHOLE
FUTURE FIRE HYDRANT	PROPOSED SEWER LATERAL
PROPOSED LIGHT POLE	PROPOSED WATER LINE
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PROPOSED SIDEWALK RAMP	SECTION LINE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
UNCC UTILITY NOTIFICATION CENTER OF COLORADO 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:
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

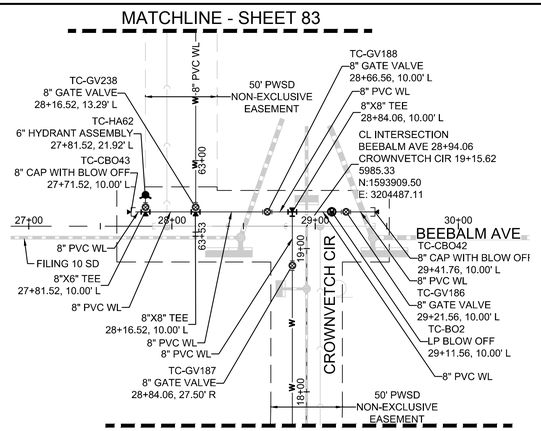
10333 E. Dry Creek Rd.
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Englewood, CO 80112
Tel: (720) 482-9526
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CVL CONSULTANTS

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7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
CROWNVETCH CIRCLE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 71

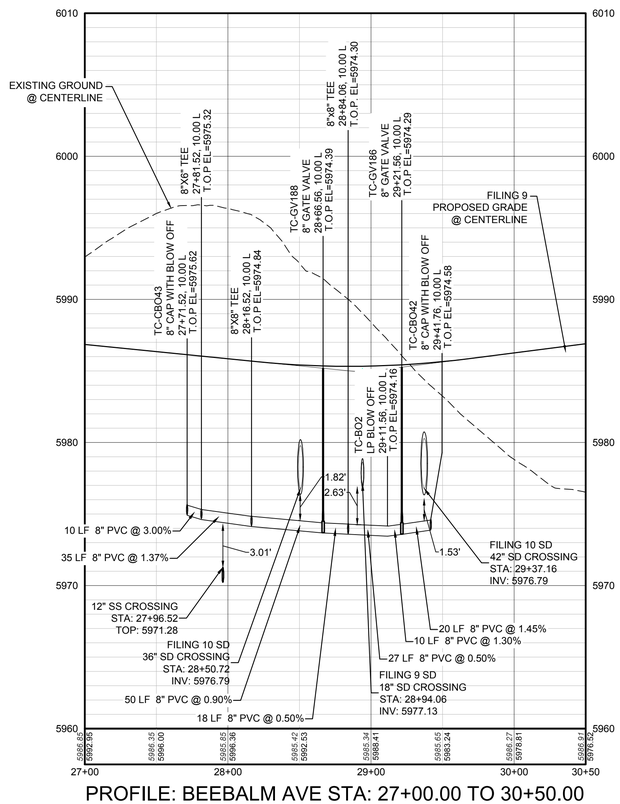
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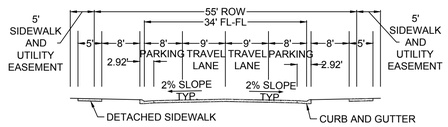
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SCALE: 1" = 50'

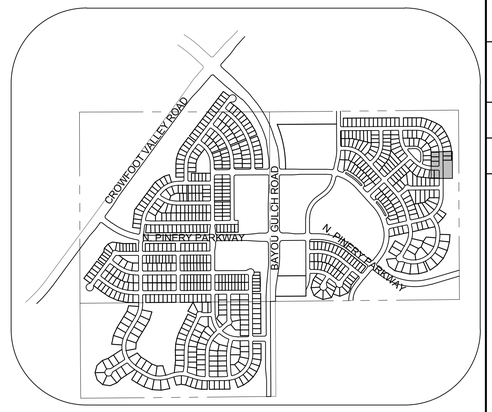
PLAN: BEEBALM AVE STA: 27+00.00 TO 30+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: BEEBALM AVE STA: 27+00.00 TO 30+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



RESIDENTIAL LOCAL



KEYMAP
N.T.S.

LEGEND

(2)	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	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	5615	EXISTING 5' CONTOUR
	PROPOSED WL FITTING WITH THRUST BLOCK	5616	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	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

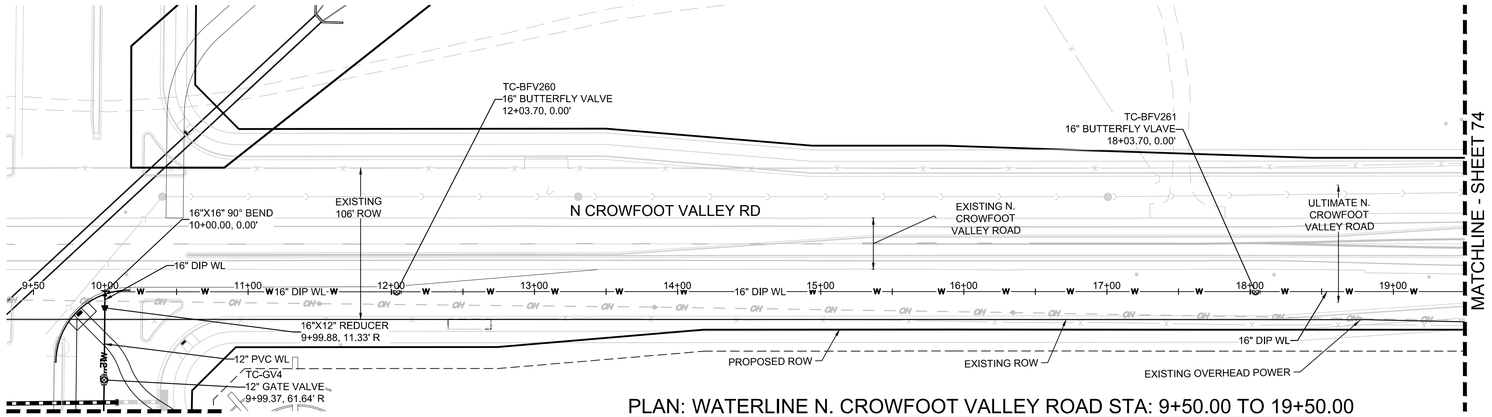
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Fax: (720) 482-9546
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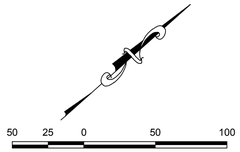
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BEEBALM AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 72

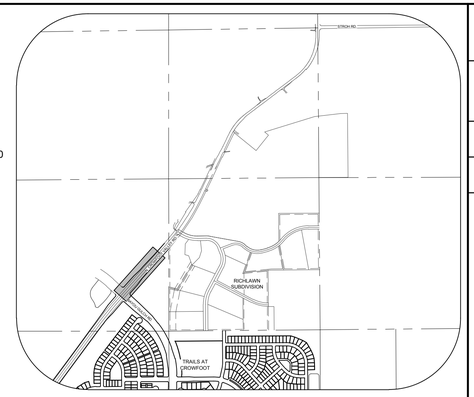
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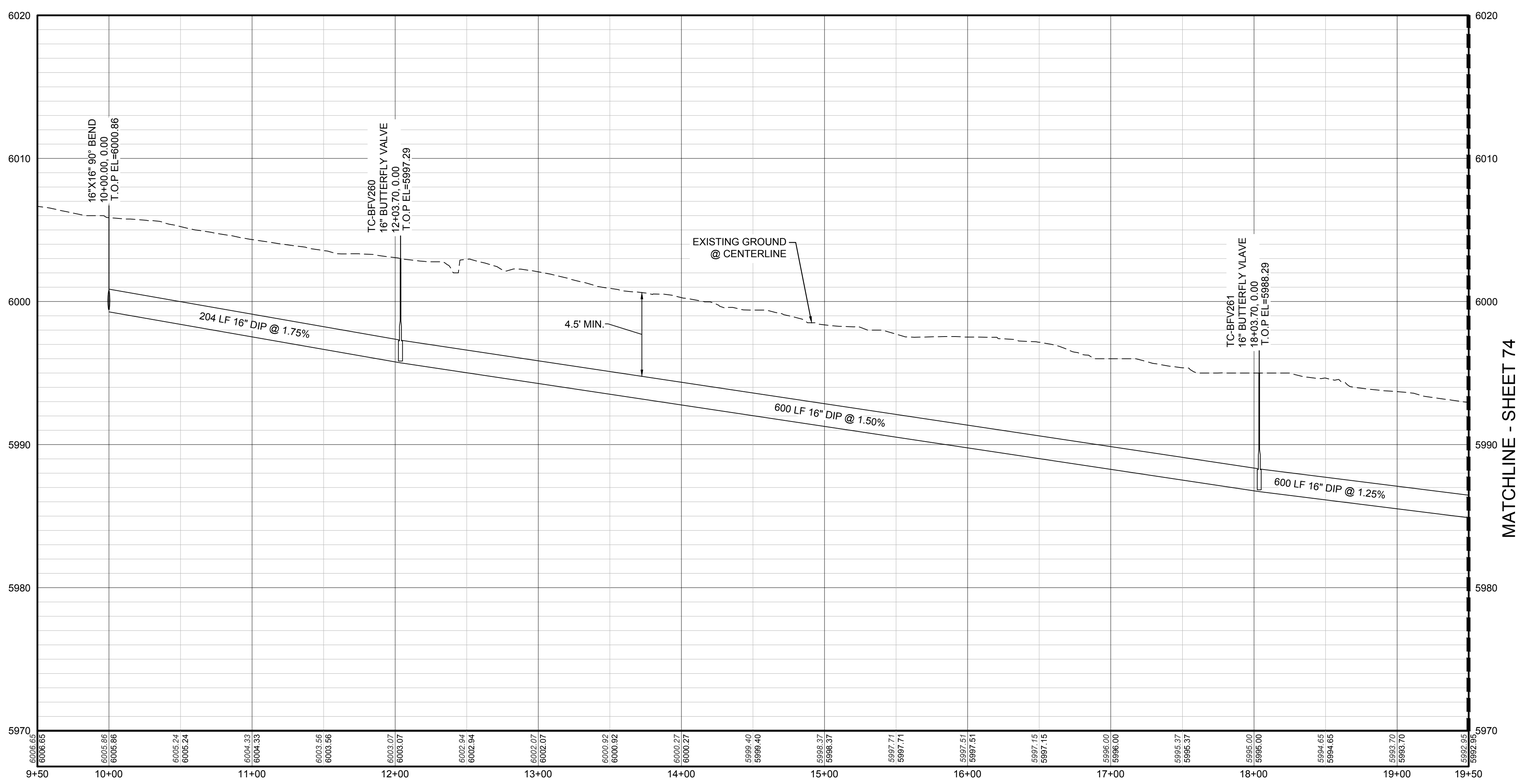
PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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 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
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FL	FLOW LINE	SS	SANITARY SEWER
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HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
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COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

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Tel: (720) 482-9526
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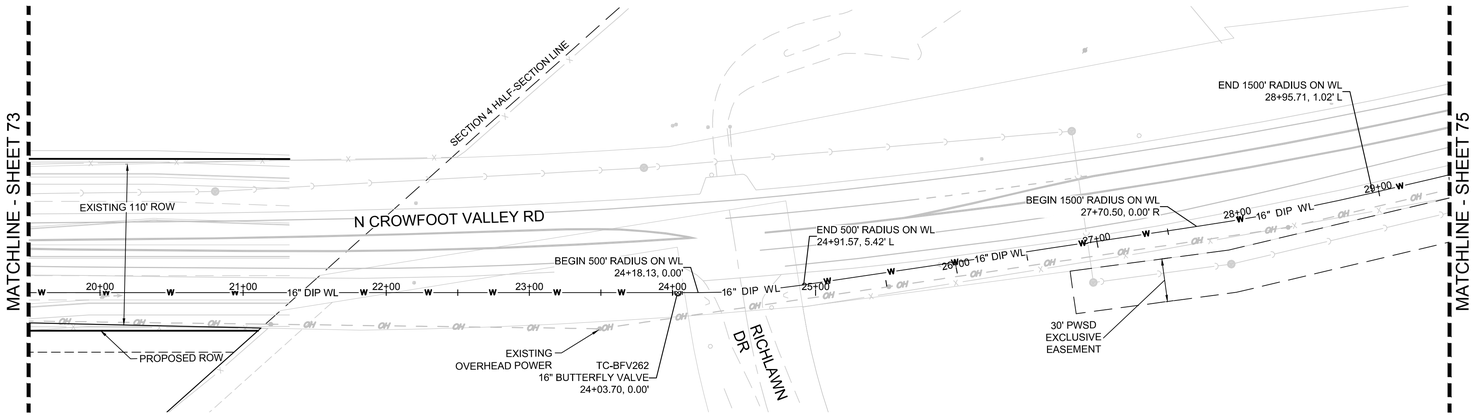
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CENTENNIAL, CO 80112

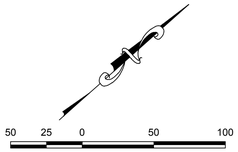
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
WL N CROWFOOT VALLEY ROAD OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 73

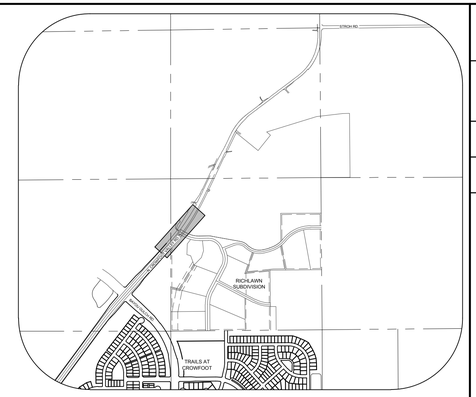
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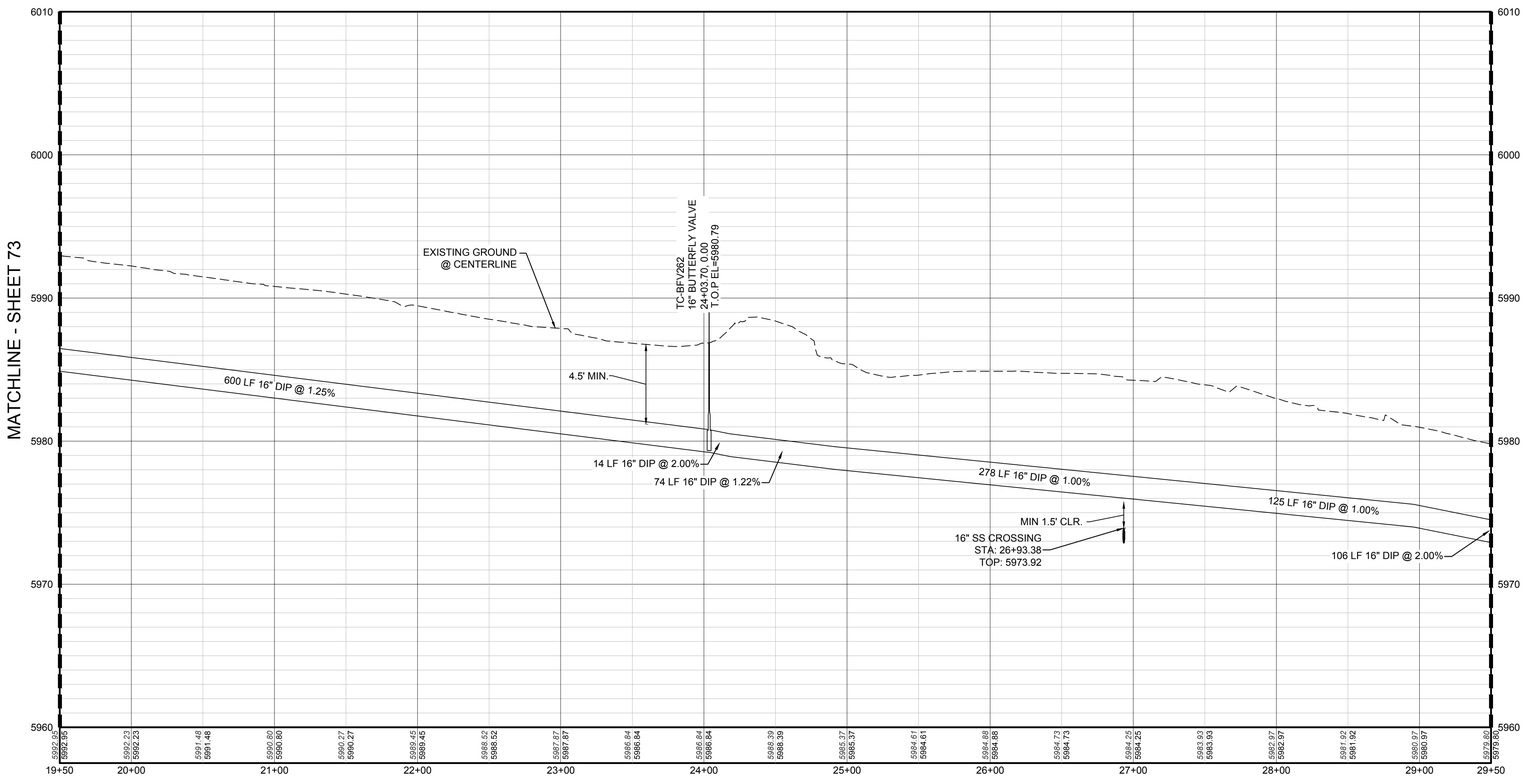
PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 19+50.00 TO 29+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 19+50.00 TO 29+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

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

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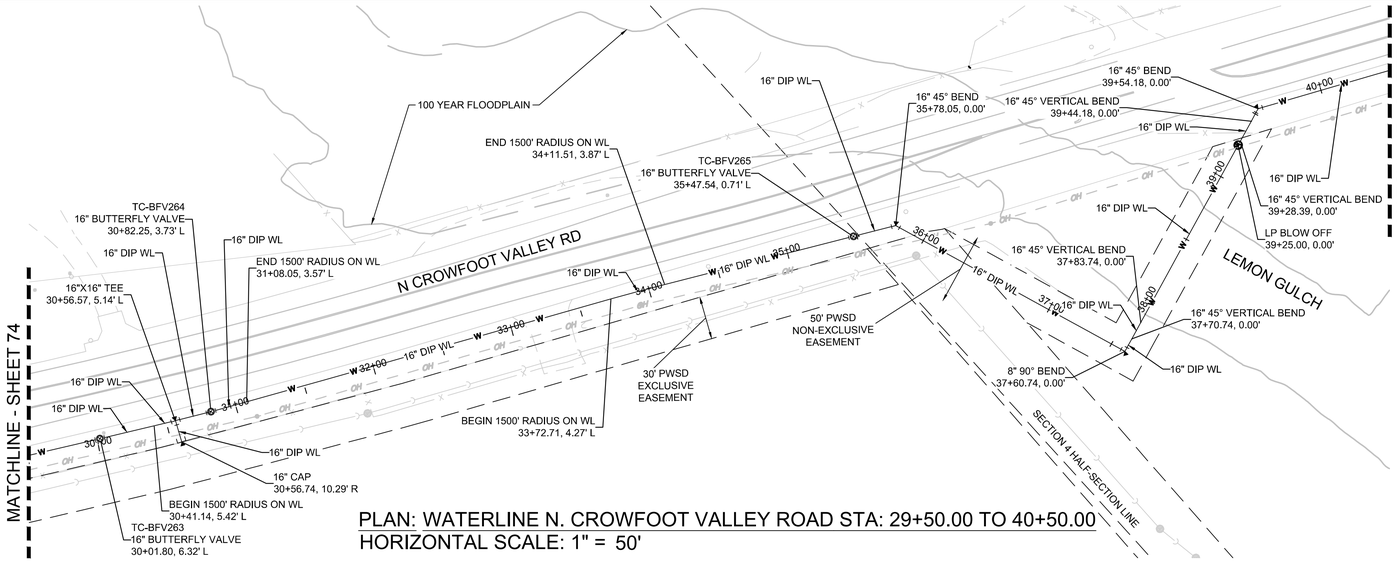
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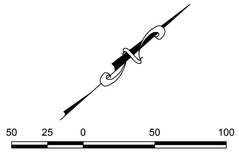
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
WL N CROWFOOT VALLEY ROAD OUTFALL

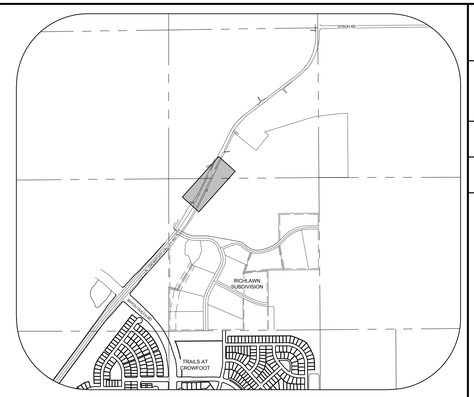
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CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 74

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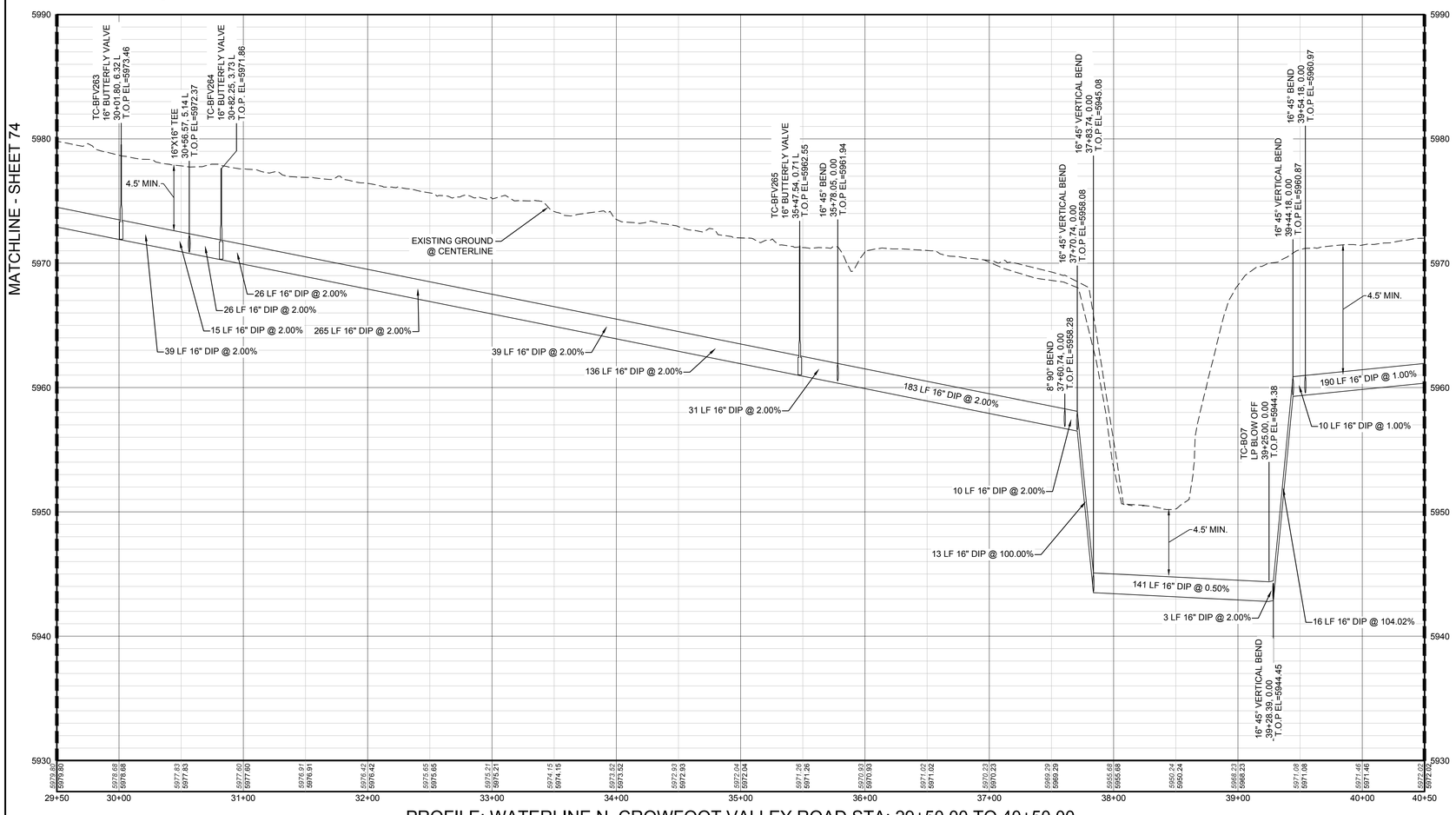


PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 29+50.00 TO 40+50.00
HORIZONTAL: 1" = 50'





KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 29+50.00 TO 40+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

2	BLOCK NUMBER		PROPOSED RANGE POINT
A	LOT TYPE		CENTERLINE
6	LOT NUMBER		RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE		PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF		EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
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	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	8"W	PROPOSED WATER LINE
	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP		SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
4 5 6	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
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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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	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
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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

No.	Revisions	Date	Init.	Appr.	Date

10333 E. Dry Creek Rd.
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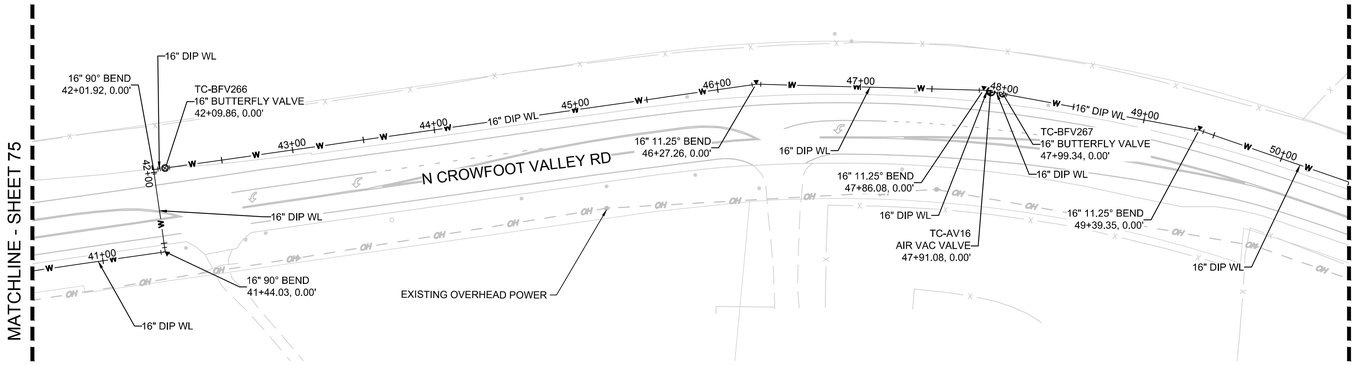
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TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
WL N CROWFOOT VALLEY ROAD OUTFALL

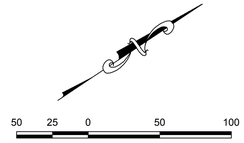
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CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 75

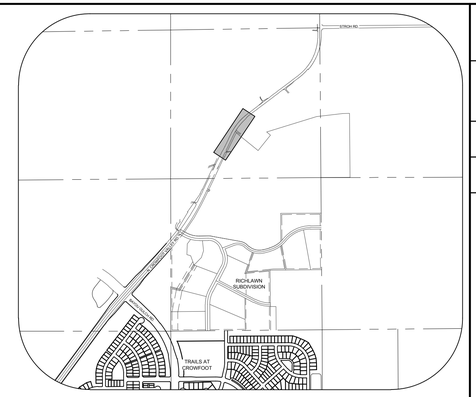
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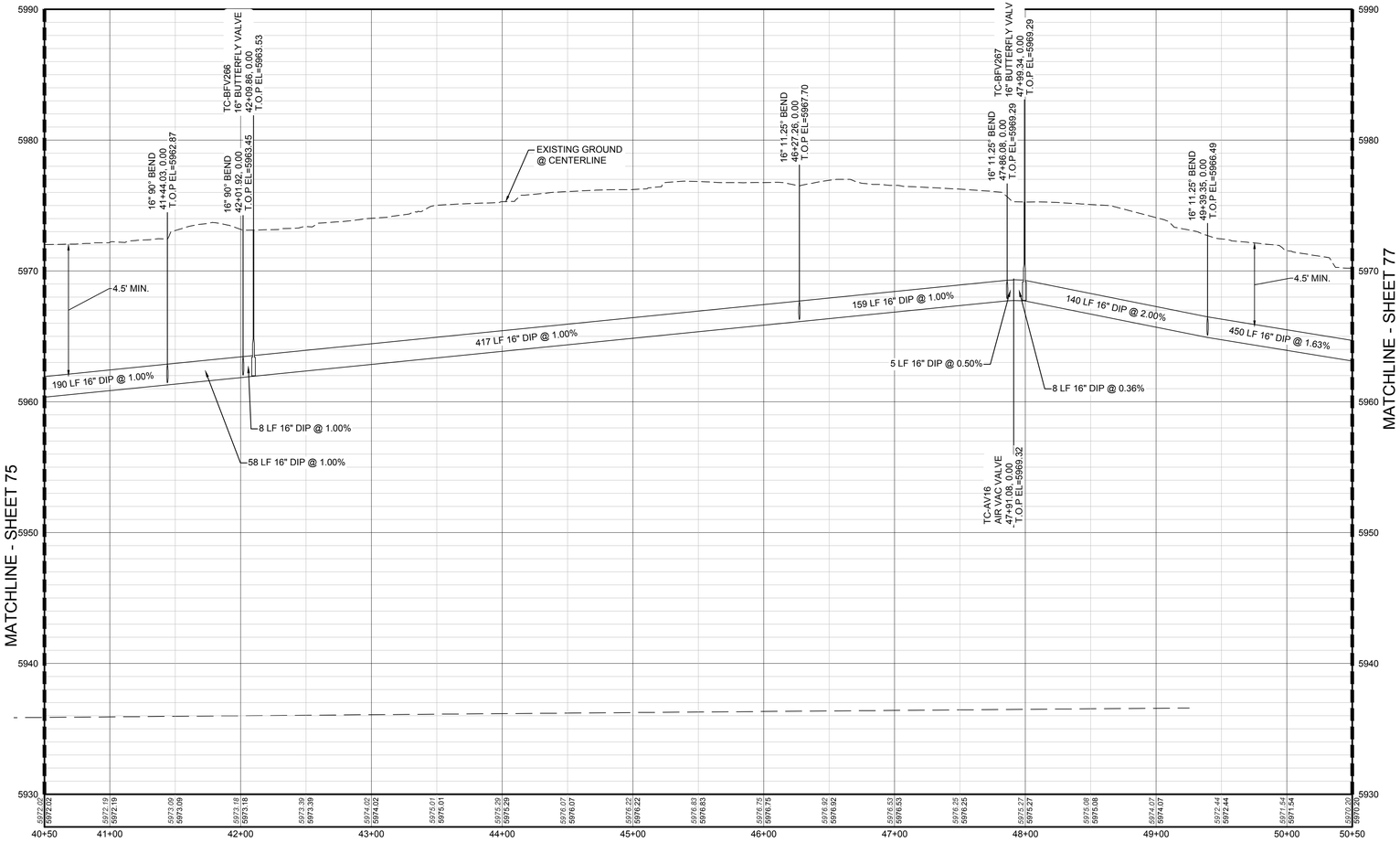
PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 40+50.00 TO 50+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 40+50.00 TO 50+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

BLOCK NUMBER	PROPOSED RANGE POINT
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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 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
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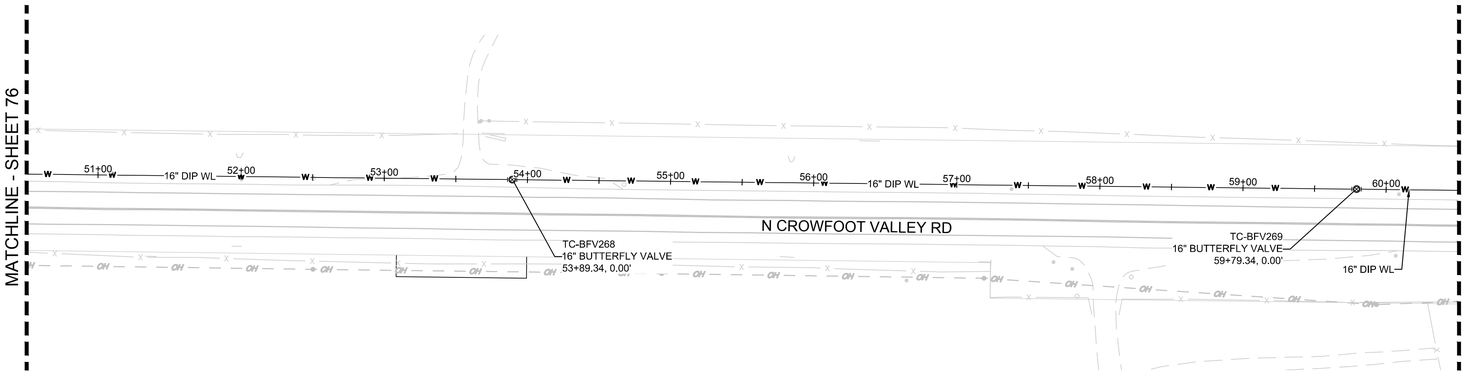
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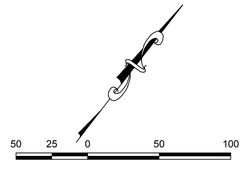
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
WL N CROWFOOT VALLEY ROAD OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 76

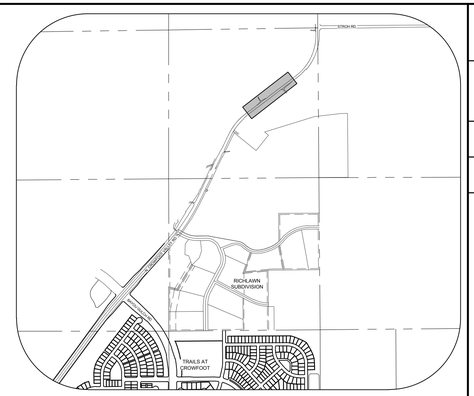
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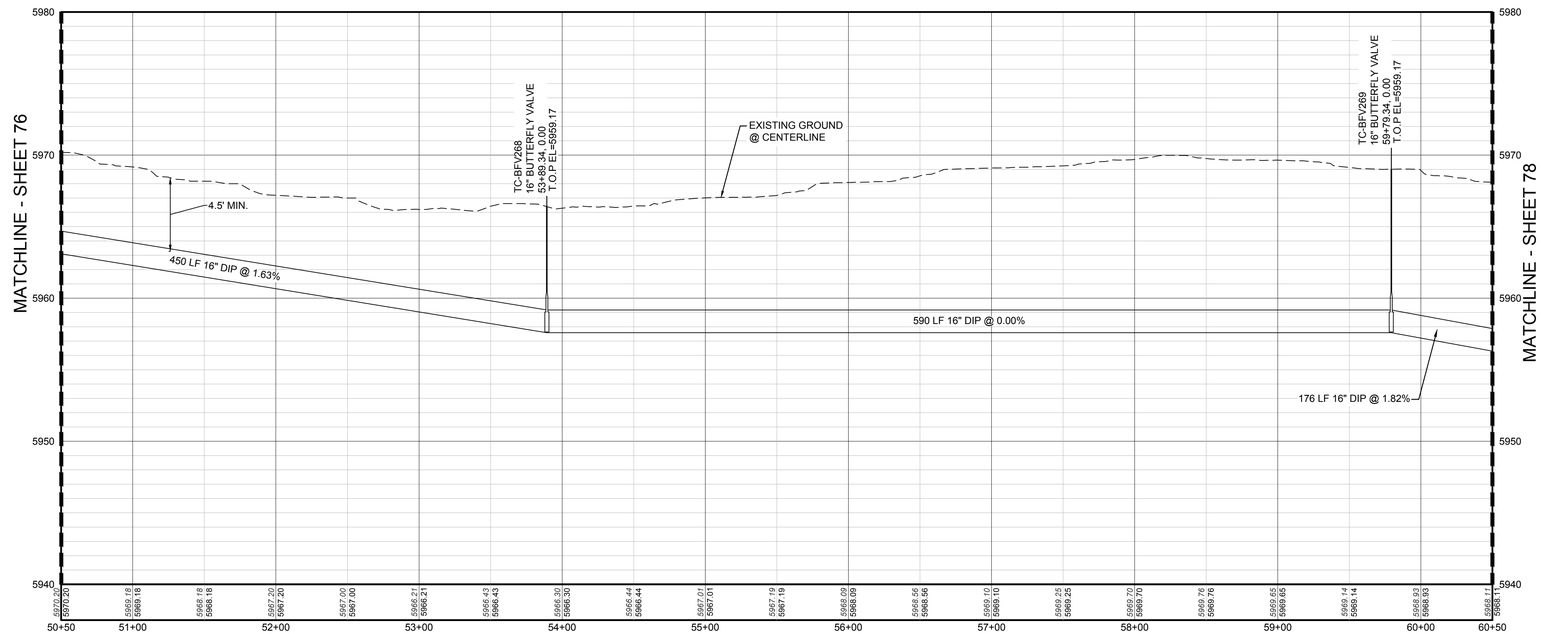
PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 50+50.00 TO 60+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 50+50.00 TO 60+50.00
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LOT NUMBER	RIGHT-OF-WAY
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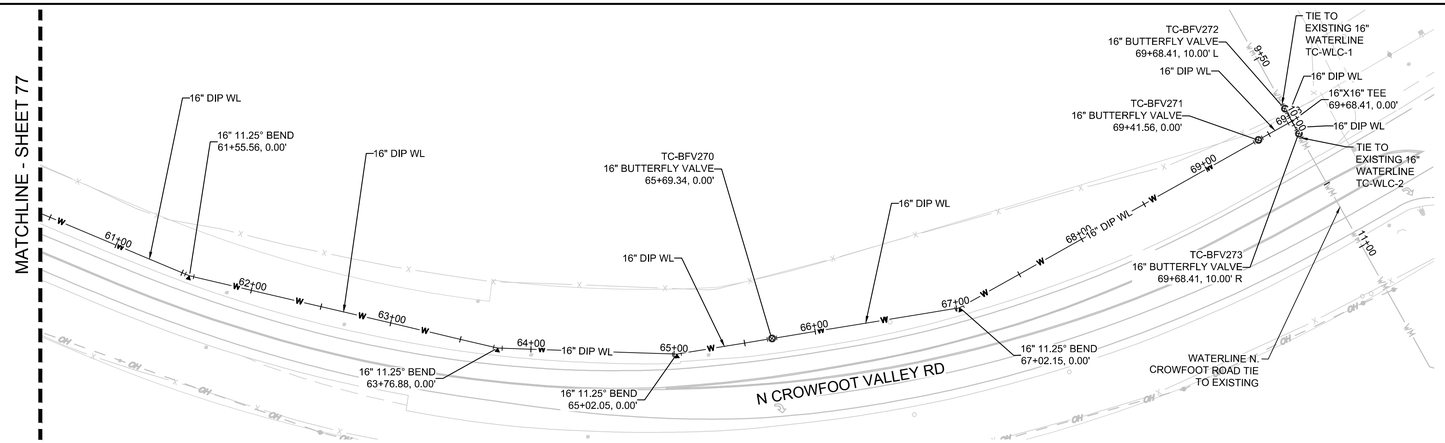
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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
WL N CROWFOOT VALLEY ROAD OUTFALL

SCALE:	AS SHOWN	FILE NO:	8130283701
DRAWN BY:	RHR		
CHECKED BY:	JJJ		
DATE:	APRIL 2017		

SHEET NUMBER 77

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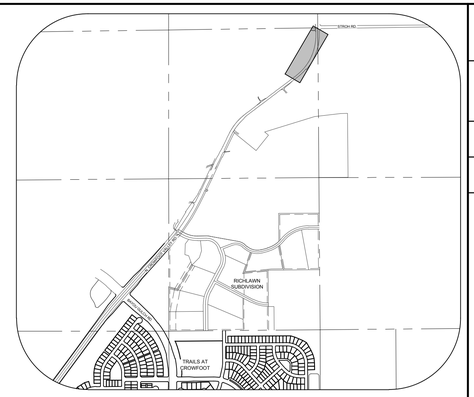


PLAN: WATERLINE N. CROWFOOT VALLEY ROAD STA: 60+50.00 TO 70+00.00
HORIZONTAL SCALE: 1" = 50'

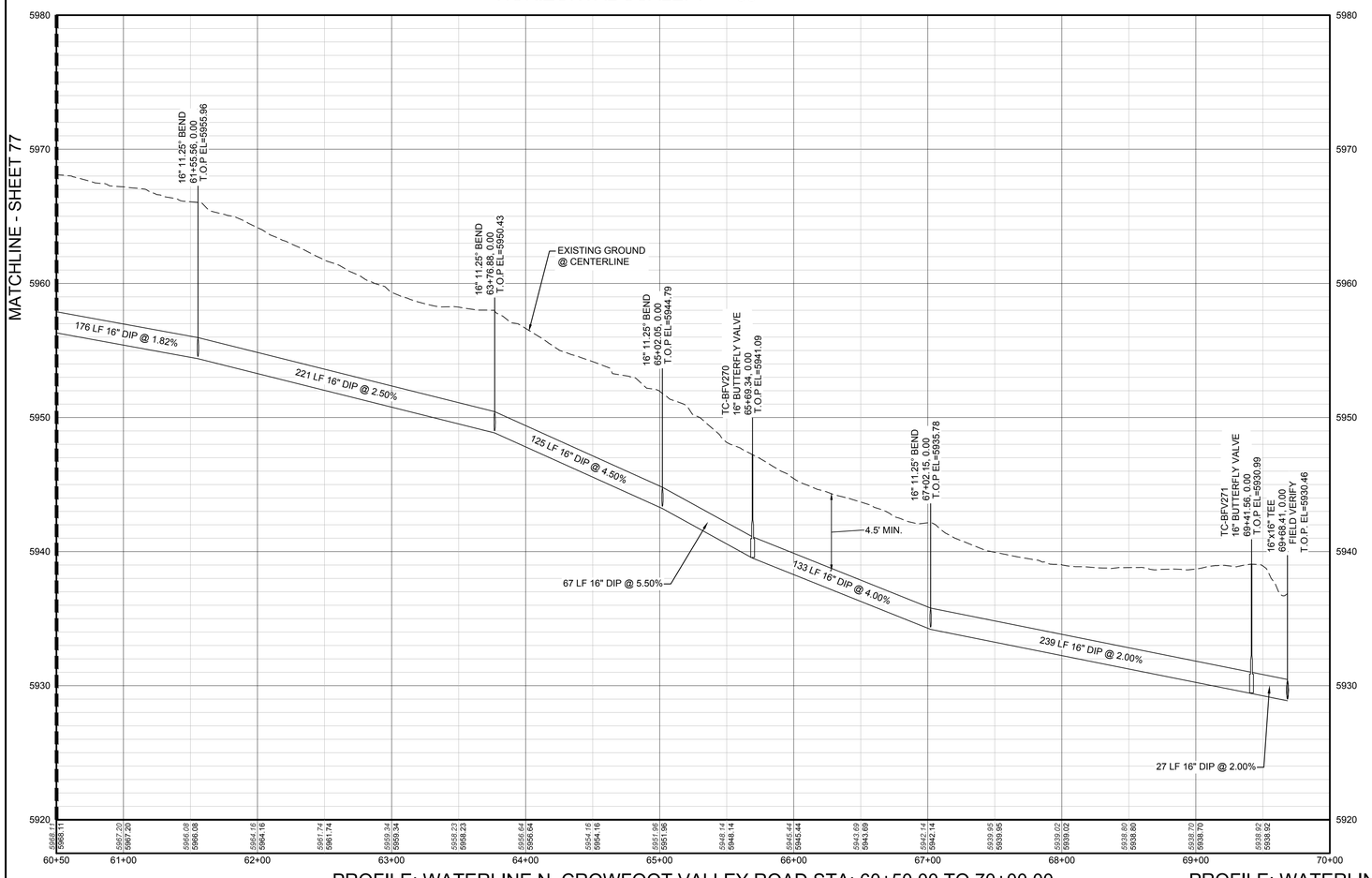


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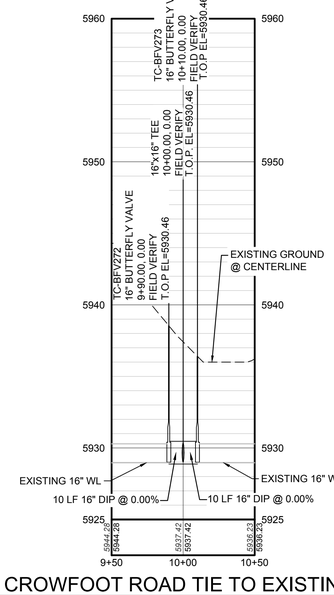
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KEYMAP
N.T.S.



PROFILE: WATERLINE N. CROWFOOT VALLEY ROAD STA: 60+50.00 TO 70+00.00
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PROFILE: WATERLINE N. CROWFOOT ROAD TIE TO EXISTING STA: 9+50.00 TO 10+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

LEGEND

(2) BLOCK NUMBER	PROPOSED RANGE POINT
(A) LOT TYPE	CENTERLINE
6 LOT NUMBER	RIGHT-OF-WAY
PROPOSED BUTTERFLY VALVE	PROPERTY LINE
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PROPOSED REDUCER	PROPOSED DIRECTION OF FLOW
PROPOSED VALVE	1.0% PROPOSED SLOPE & DIRECTION
PROPOSED FIRE HYDRANT	5615 EXISTING 5' CONTOUR
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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	8"W PROPOSED WATER LINE
PROPOSED SIDEWALK	PROPOSED WATER LATERAL W/ METER
PROPOSED SIDEWALK RAMP	SECTION LINE
10.00 EXISTING ELEVATION	FILING BOUNDARY
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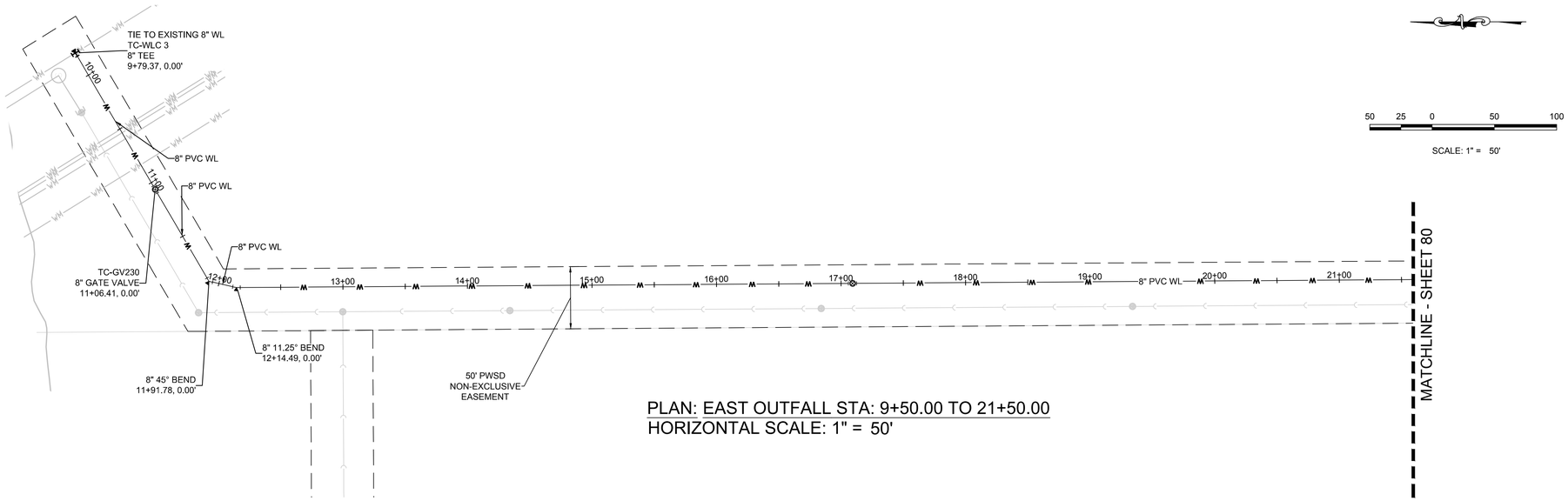
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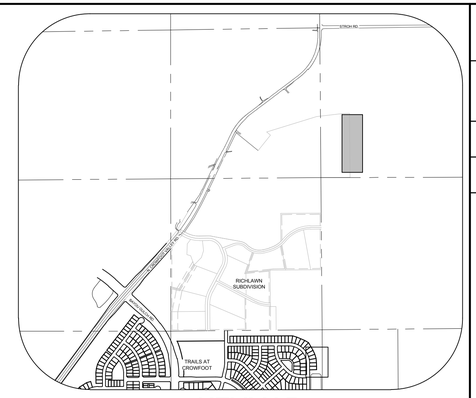
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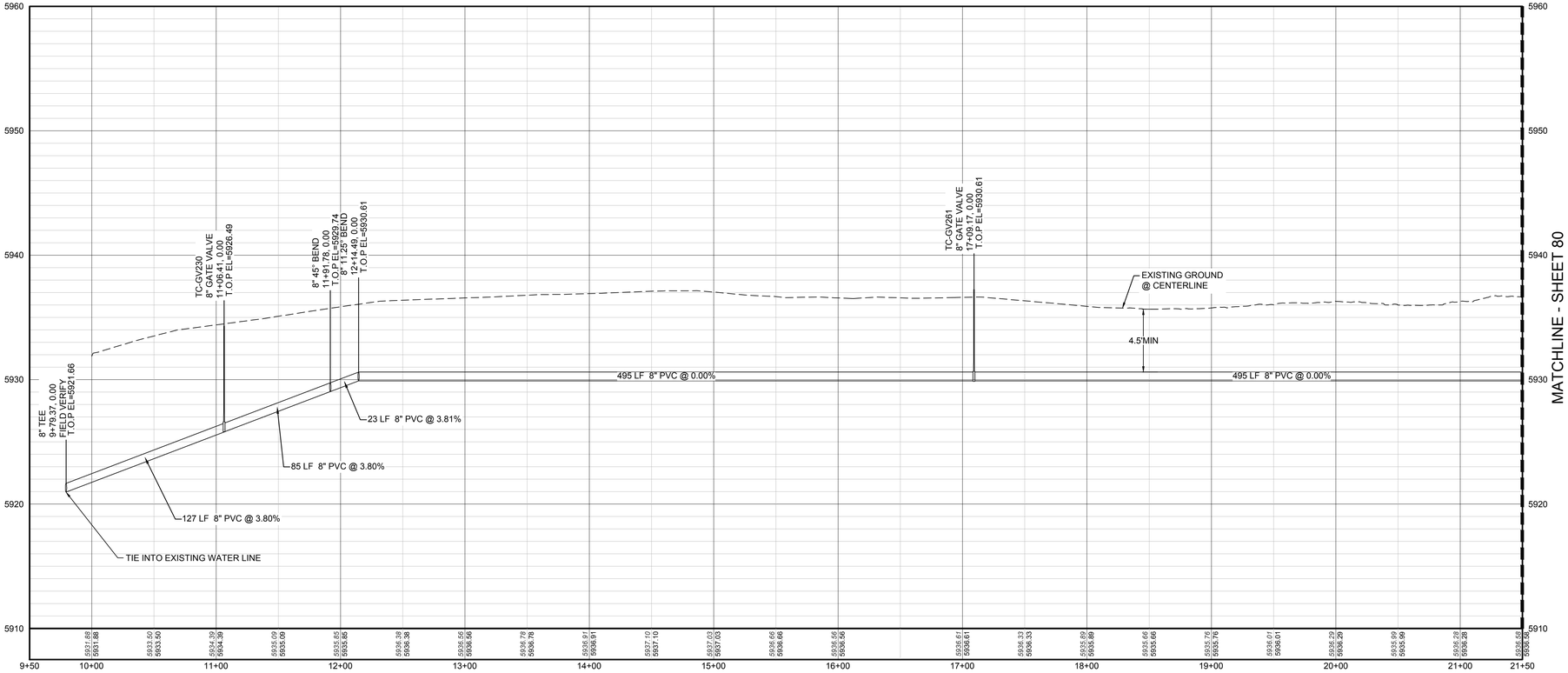
PLAN: EAST OUTFALL STA: 9+50.00 TO 21+50.00
HORIZONTAL SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



KEYMAP
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10.00 PROPOSED DESIGN ELEVATION	FO EXISTING FIBER OPTIC LINE
PROPOSED STORM DRAIN INLET	OH EXISTING OVERHEAD POWER
(4)(5)(6) PROPOSED STORM DRAIN MANHOLE	TEL EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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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:
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

No.	Revisions	Date	Init.	Appr.	Date

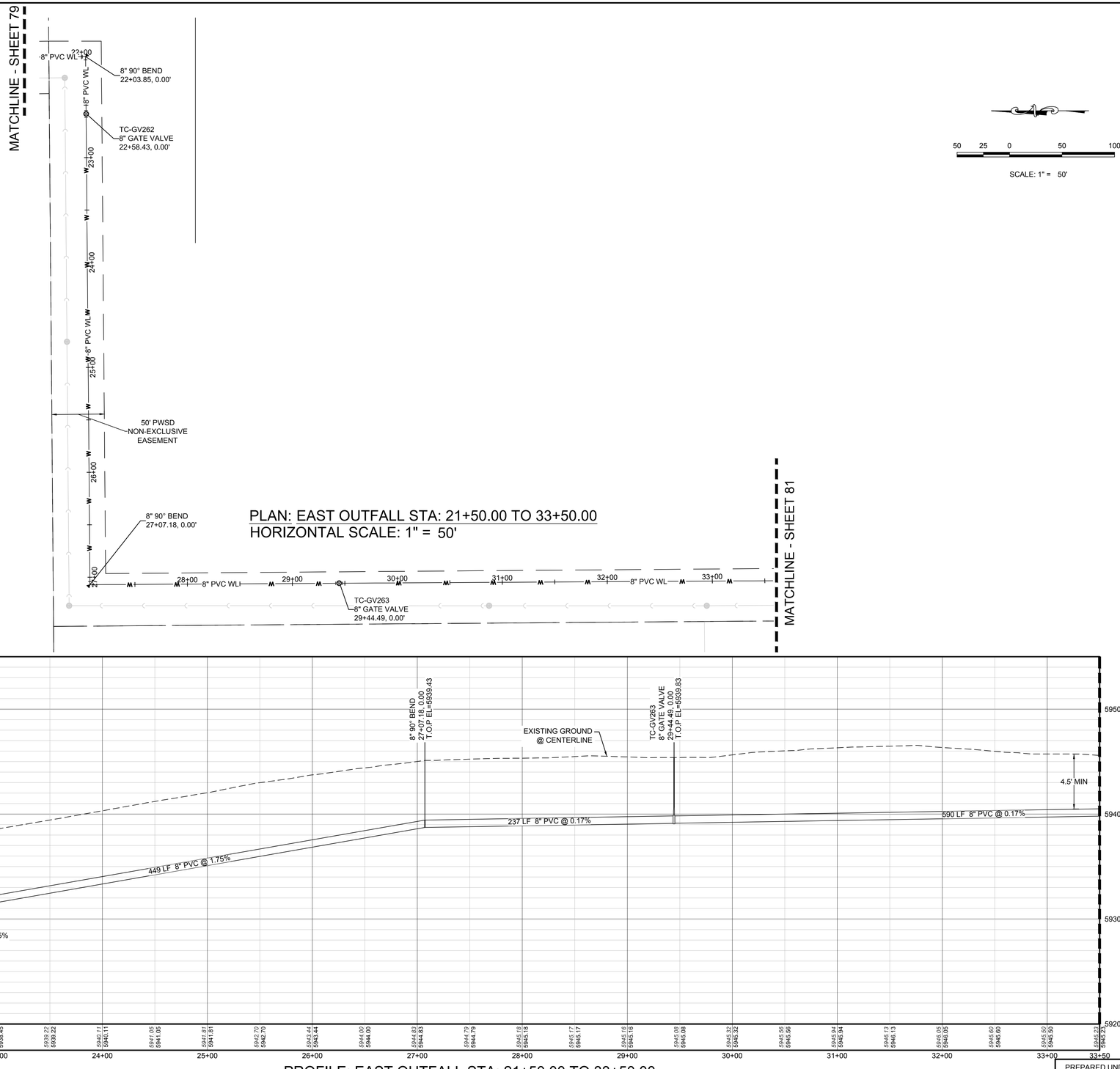
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7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WL EAST OUTFALL

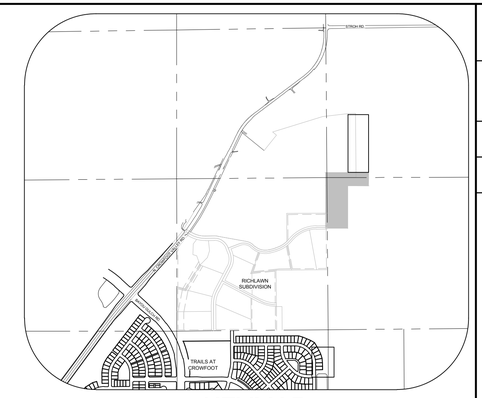
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50 25 0 50 100

SCALE: 1" = 50'



KEYMAP
N.T.S.

LEGEND

- BLOCK NUMBER
- LOT TYPE
- LOT NUMBER
- PROPOSED BUTTERFLY VALVE
- PROPOSED CAP WITH END OF LINE BLOWOFF
- PROPOSED REDUCER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WL FITTING WITH THRUST BLOCK
- PROPOSED FLARED END SECTION
- PROPOSED LOW POINT BLOW-OFF
- PROPOSED AIR VALVE
- FUTURE PHASE VALVE
- FUTURE FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED SIDEWALK
- PROPOSED SIDEWALK RAMP
- 10.00 EXISTING ELEVATION
- 10.00 PROPOSED DESIGN ELEVATION
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED RANGE POINT
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF PAVEMENT
- PROPOSED DIRECTION OF FLOW
- 1.0% PROPOSED SLOPE & DIRECTION
- 5615 EXISTING 5' CONTOUR
- 5616 EXISTING 1' CONTOUR
- 5620 PROPOSED 5' CONTOUR
- 5607 PROPOSED 1' CONTOUR
- PROPOSED STORM DRAIN
- PROPOSED SEWER LINE WITH MANHOLE
- PROPOSED SEWER LATERAL
- 8"W PROPOSED WATER LINE
- PROPOSED WATER LATERAL W/ METER
- SECTION LINE
- FILING BOUNDARY
- FO EXISTING FIBER OPTIC LINE
- OH EXISTING OVERHEAD POWER
- TEL EXISTING TELEPHONE LINE

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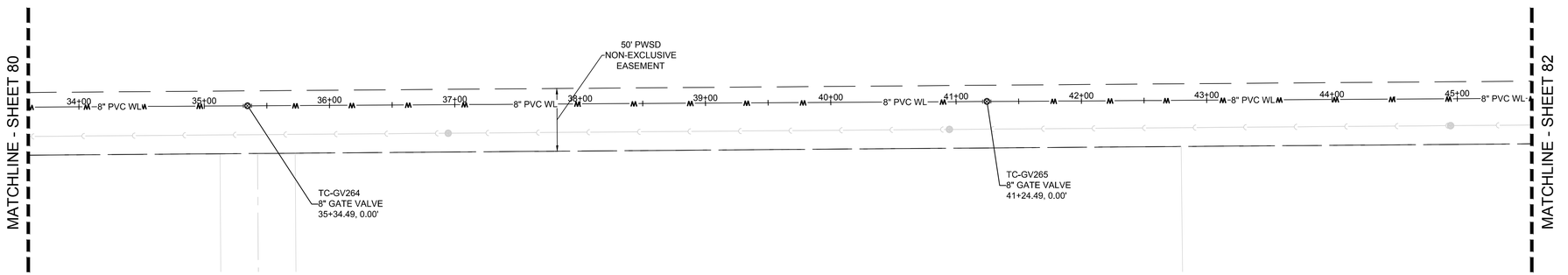
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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WL EAST OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 80

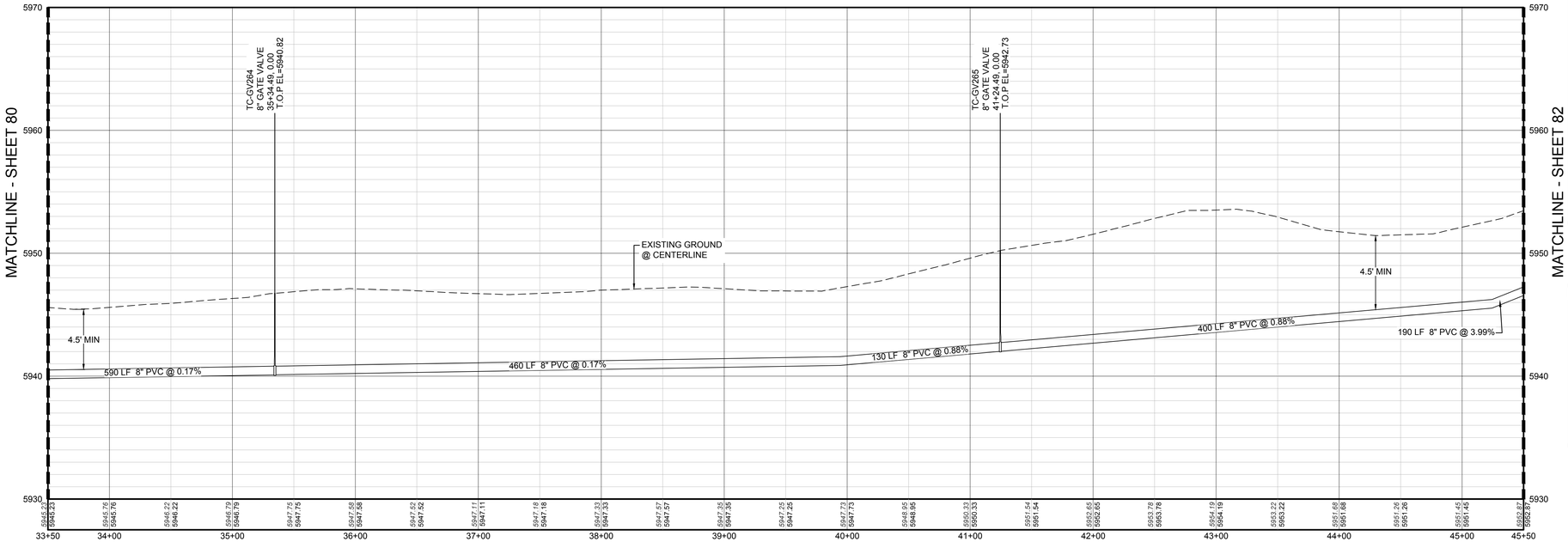
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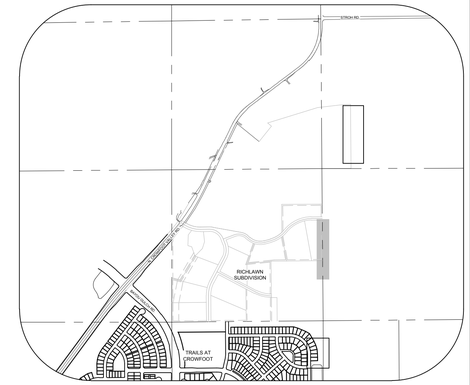
50 25 0 50 100

SCALE: 1" = 50'

PLAN: EAST OUTFALL STA: 33+50.00 TO 45+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: EAST OUTFALL STA: 33+50.00 TO 45+50.00
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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 (1.0%)
PROPOSED FIRE HYDRANT	EXISTING 5' CONTOUR (5615)
PROPOSED WL FITTING WITH THRUST BLOCK	EXISTING 1' CONTOUR (5616)
PROPOSED FLARED END SECTION	PROPOSED 5' CONTOUR (5620)
PROPOSED LOW POINT BLOW-OFF	PROPOSED 1' CONTOUR (5607)
PROPOSED AIR VALVE	PROPOSED STORM DRAIN
FUTURE PHASE VALVE	PROPOSED SEWER LINE WITH MANHOLE
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EXISTING ELEVATION (10.00)	FILING BOUNDARY
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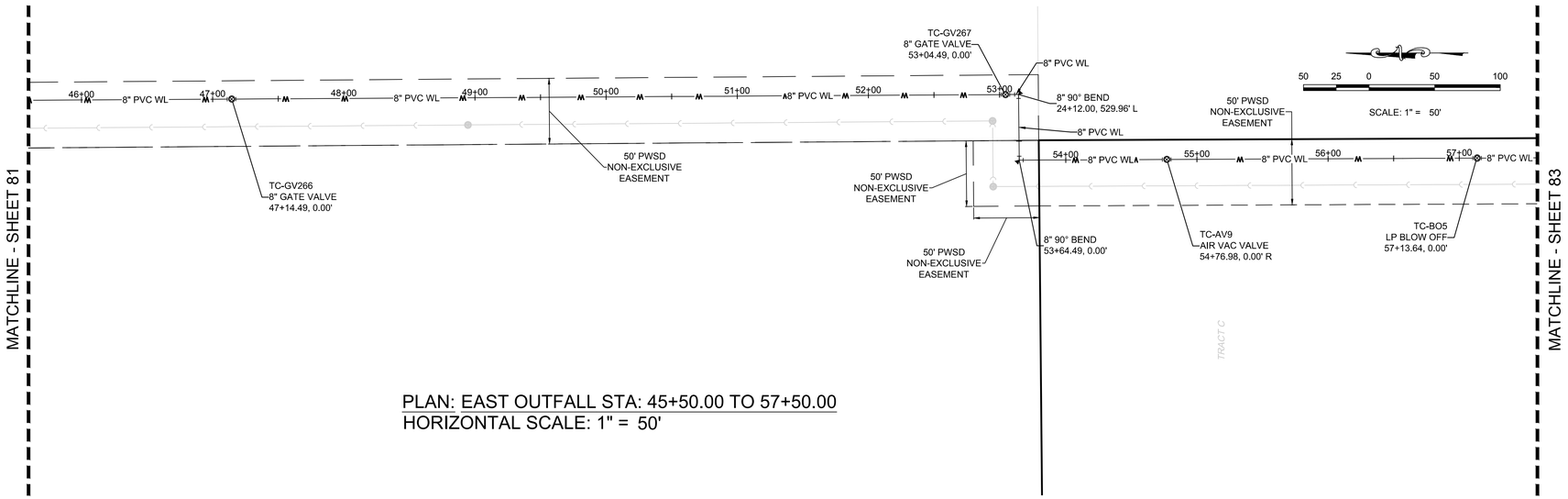
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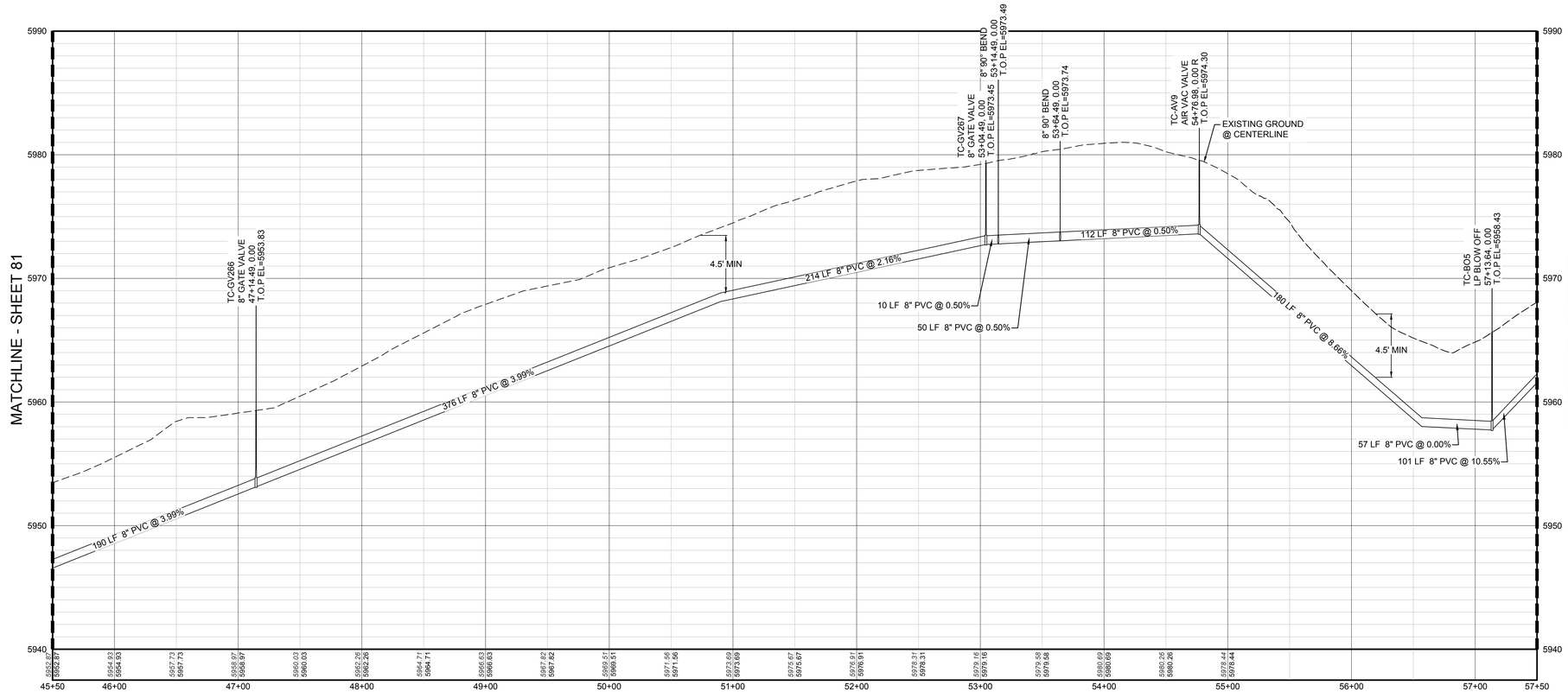
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WL EAST OUTFALL

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DATE: APRIL 2017
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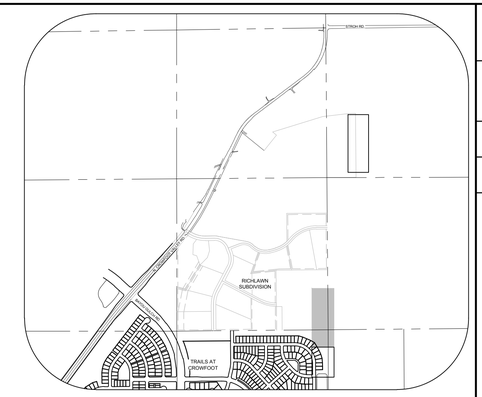
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PLAN: EAST OUTFALL STA: 45+50.00 TO 57+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: EAST OUTFALL STA: 45+50.00 TO 57+50.00
HORIZONTAL: 1" = 50'
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KEYMAP
N.T.S.

LEGEND

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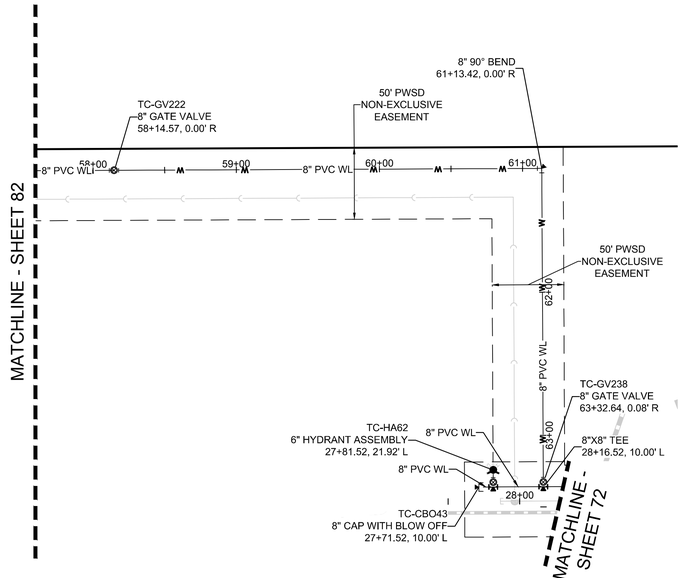
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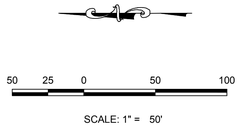
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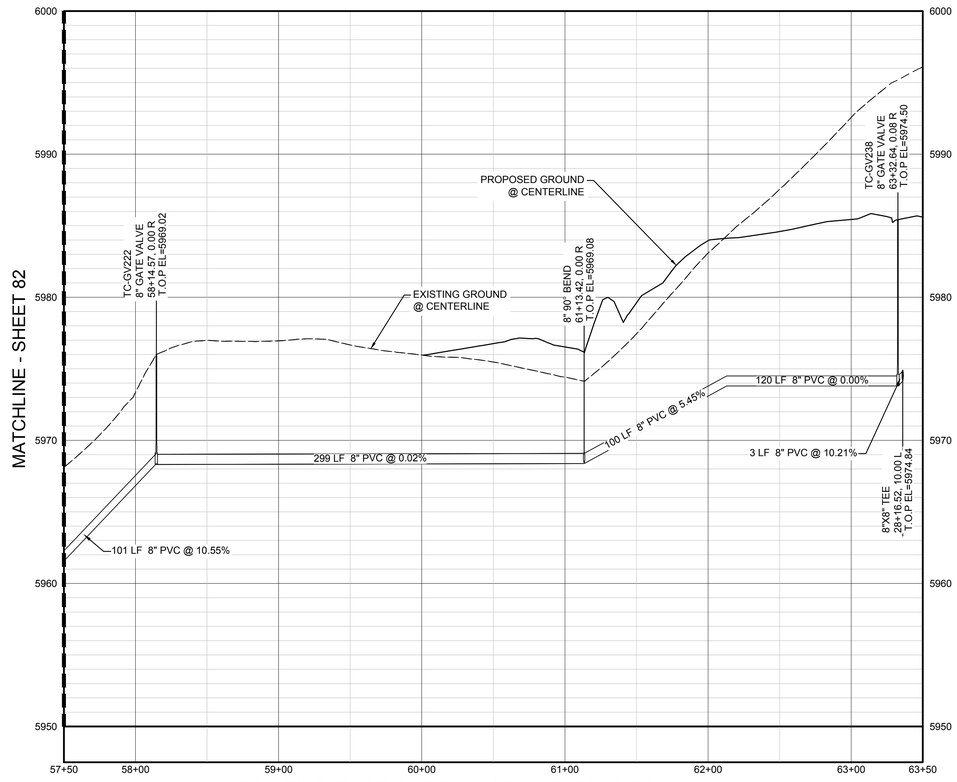
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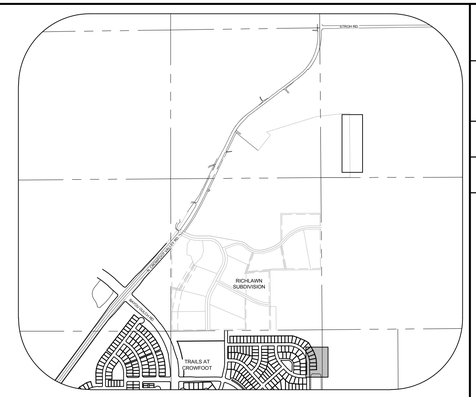


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HORIZONTAL SCALE: 1" = 50'





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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

No.	Revisions	Date	Init.	Appr.	Date

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E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WL EAST OUTFALL

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 83

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD\SF1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 OFFSITE WATER 2.DWG, BRIANW, 12/7/2017 10:50 PM

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

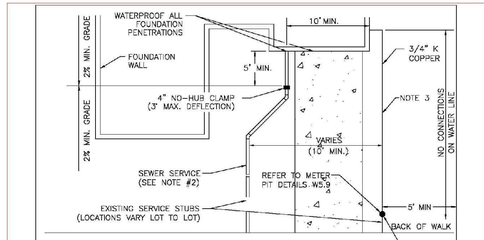
1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)
2. APPROVED BEDDING TO BE SQUEEGEE.
3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". 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 CONTINOUS COPPER WITH A 1" BURY.
6. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT. IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
7. MOVED CURB BOXES MUST BE INSPECTED BY 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:
    "X" FOR SANITARY SEWER SERVICE
    "Y" FOR WATER SERVICES
13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE 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.

PARKER WATER & SANITATION DISTRICT

DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES

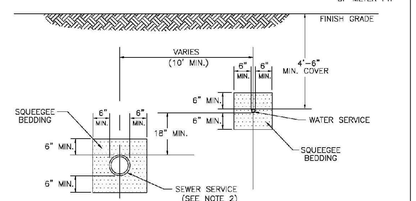
SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/04, 1/16, 10/15

2016 REVISION — SHEET W1.1



TYPICAL SERVICES PLAN VIEW

NTS



TYPICAL SERVICES SECTION

NTS

NOTE

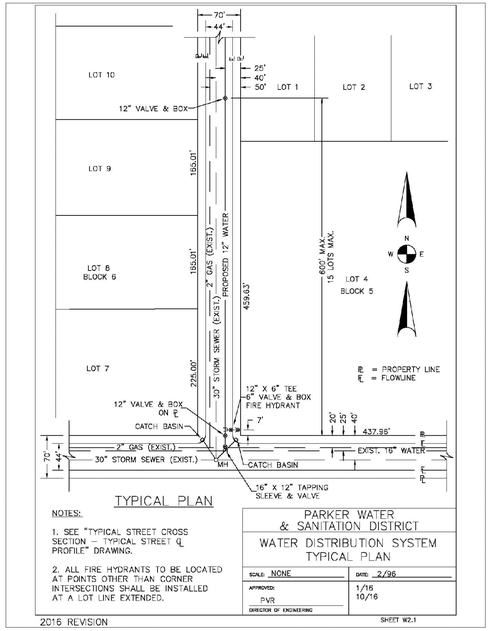
1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
2. REFER TO SEWER SERVICES DETAIL SHEET S1.2.
3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

PARKER WATER & SANITATION DISTRICT

TYPICAL WATER SERVICES

SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/04, 08/05, 12/07, 1/15, 10/16

2016 REVISION — SHEET W1.2



TYPICAL PLAN

NOTES:

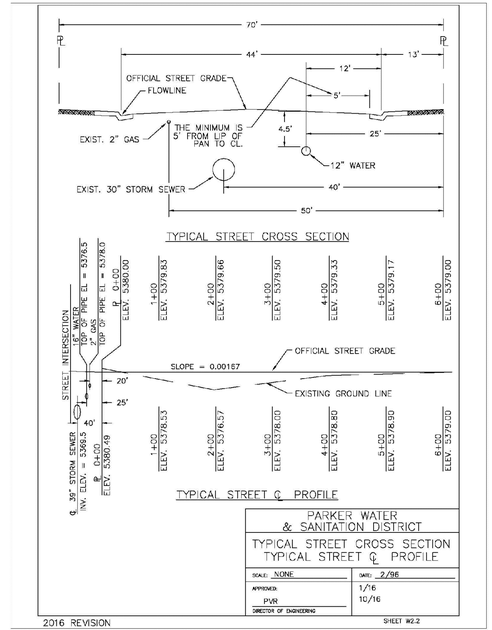
1. SEE "TYPICAL STREET CROSS SECTION – TYPICAL STREET ℄ PROFILE" DRAWING.
2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

PARKER WATER & SANITATION DISTRICT

WATER DISTRIBUTION SYSTEM TYPICAL PLAN

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

2016 REVISION — SHEET W2.1



TYPICAL STREET CROSS SECTION

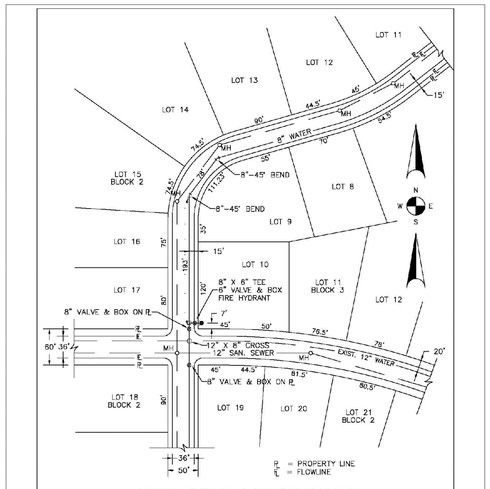
TYPICAL STREET ℄ PROFILE

PARKER WATER & SANITATION DISTRICT

TYPICAL STREET CROSS SECTION TYPICAL STREET ℄ PROFILE

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

2016 REVISION — SHEET W2.2



TYPICAL PLAN FOR CURVED STREETS

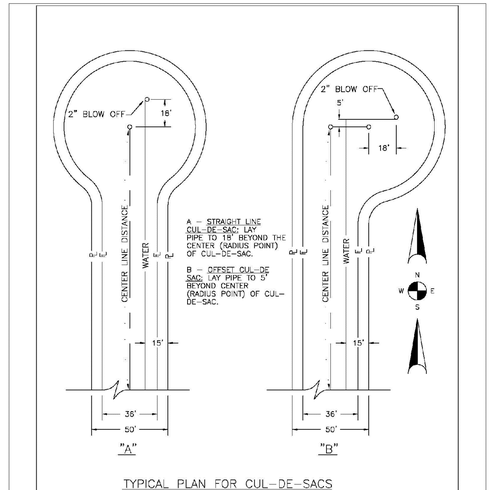
NOTE: WATER AND SEWER MAY NEVER BE CLOSER THAN 10' HORIZONTALLY AND MUST MAINTAIN A MINIMUM OF 5' FROM THE LIP OF PAN ON THE GUTTER.

PARKER WATER & SANITATION DISTRICT

WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CURVED STREETS

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

2016 REVISION — SHEET W2.3



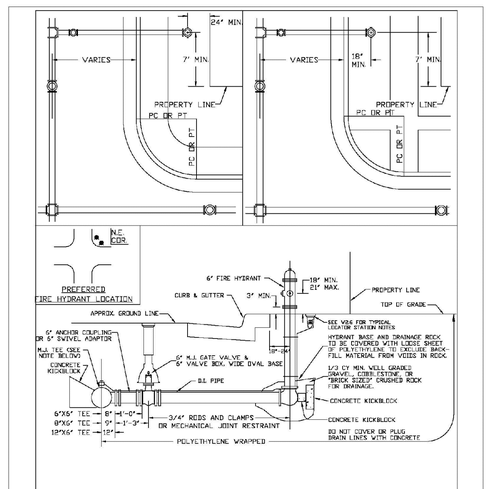
TYPICAL PLAN FOR CUL-DE-SACS

PARKER WATER & SANITATION DISTRICT

WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CUL-DE-SACS

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

2016 REVISION — SHEET W2.4



NOTES:

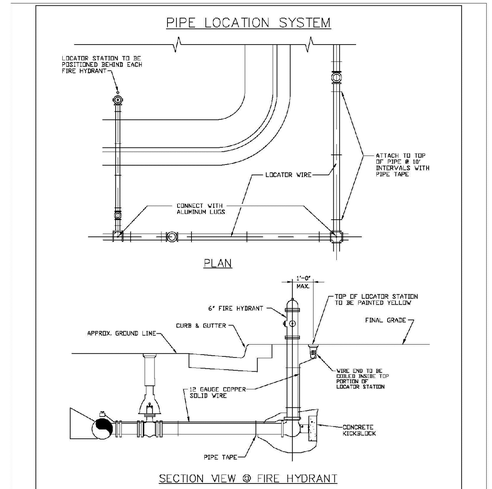
1. ALTERNATE TO THE ABOVE: FASTEN MJ VALVE DIRECTLY TO A MJ ANCHOR TEE OR SADDLE SWIVEL TEE)
2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH
4. NO PORTION OF FIRE HYDRANT MAY PENETRATE INTO ROADWAY AREA.
5. FIRE HYDRANT EXTENSIONS MAY NOT BE USED.

PARKER WATER & SANITATION DISTRICT

FIRE HYDRANTS LOCATION & INSTALLATION

SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	4/01, 01/02, 12/07, 1/16, 10/16

2016 REVISION — SHEET W2.5



SECTION VIEW @ FIRE HYDRANT

NOTES:

1. FOR USE ON ALL DUCTILE IRON AND PVC WATER MAINS.
2. LOCATOR STATION POSITION MAY BE MODIFIED AT THE DIRECTION OF THE DISTRICT ENGINEER.
3. A CONTINUITY TEST WILL BE REQUIRED PRIOR TO PRELIMINARY ACCEPTANCE.

PARKER WATER & SANITATION DISTRICT

LOCATOR WIRE DETAILS

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

2016 REVISION — SHEET W2.6

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CVL CONSULTANTS

No.	Revisions	Date	Init.	Date	Appr.	Date

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

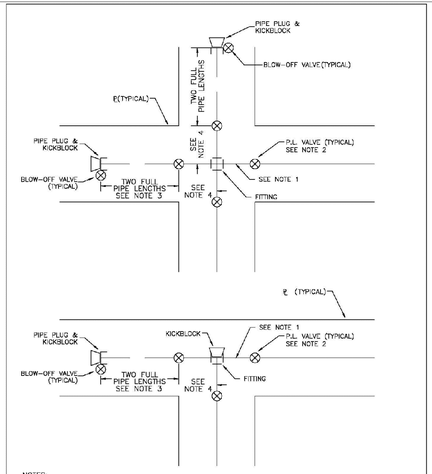
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 84

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N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 WATER DETAILS.DWG, BRIANW, 12/7/2017 10:50 PM



NOTES:

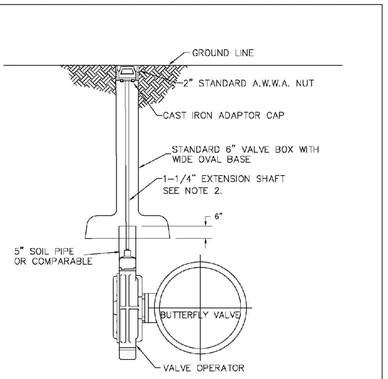
1. LAY PIPE FROM FITTING TO PL
2. INSTALL VALVE AT PL
3. STUB OUT TWO FULL PIPE LENGTHS FROM VALVE AND BLOW-OFF VALVE. PLUG END OF PIPE AND INSTALL KICKBLOCK.
4. ALTERNATIVE TO NOTE 3: ROD OR MECHANICAL JOINT RESTRAINT FROM VALVE TO FITTING AND ELIMINATE THE TWO FULL LENGTHS OF PIPE OUT OF VALVE AND TEMPORARY BLOW-OFF.

PARKER WATER & SANITATION DISTRICT

PIPING AT STREET INTERSECTIONS FUTURE CONNECTIONS

SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	01/02 01/15 10/16

2016 REVISION — SHEET W2.7



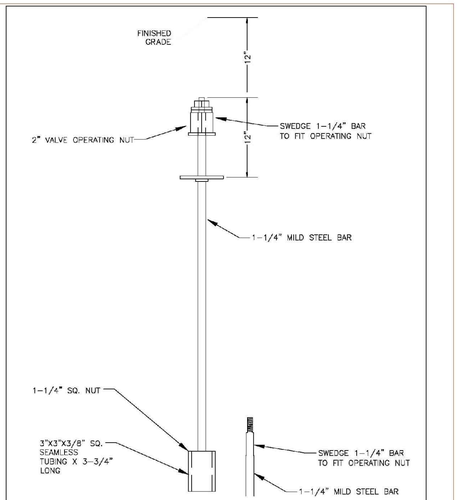
1. THE VALVE BOX SHALL NOT BE PLACED DIRECTLY ON SOIL PIPE.
2. VALVE EXTENSIONS ONLY ALLOWED FOR VALVES DEEPER THAN 9 FT. SEE DETAIL W3.2.

PARKER WATER & SANITATION DISTRICT

TRANSMISSION MAIN BUTTERFLY VALVE INSTALLATION

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

2016 REVISION — SHEET W3.1



NOTES:

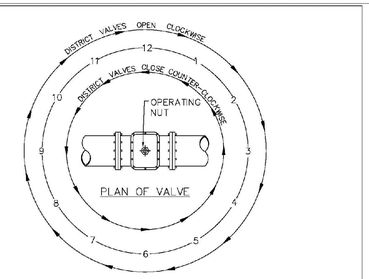
1. VALVE EXTENSIONS ONLY ALLOWED ON VALVES DEEPER THAN 9 FEET.

PARKER WATER & SANITATION DISTRICT

VALVE OPERATOR EXTENSION

SCALE: NONE	DATE: 5/98
APPROVED: PVR DIRECTOR OF ENGINEERING	2/03 12/07 1/16 10/16

2016 REVISION — SHEET W3.3



NOTE:
ONLY RIGHT HAND OPENING VALVES ALLOWED.

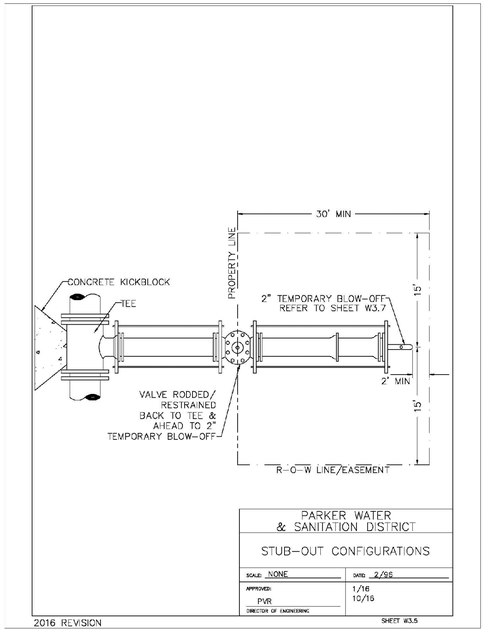
VALVE OPENING & CLOSING PROCEDURE

PARKER WATER & SANITATION DISTRICT

VALVE OPERATION

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

2016 REVISION — SHEET W3.4

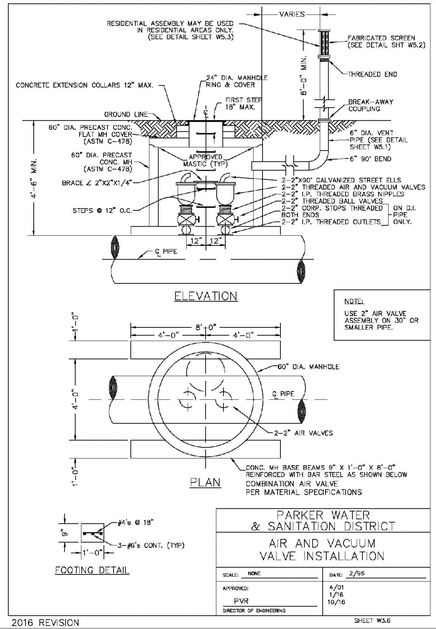


PARKER WATER & SANITATION DISTRICT

STUB-OUT CONFIGURATIONS

SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	1/16 10/15

2016 REVISION — SHEET W3.5



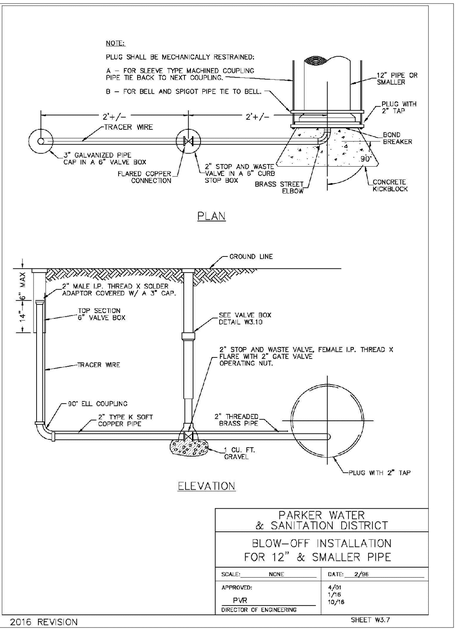
NOTE:
USE 2" AIR VALVE ASSEMBLY ON 30" OR SMALLER PIPE.

PARKER WATER & SANITATION DISTRICT

AIR AND VACUUM VALVE INSTALLATION

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

2016 REVISION — SHEET W3.6

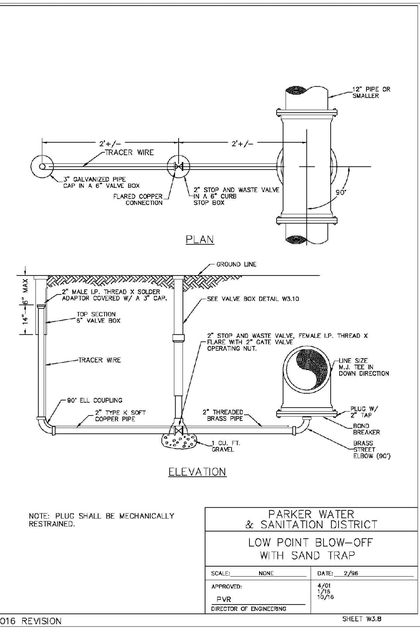


PARKER WATER & SANITATION DISTRICT

BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE

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

2016 REVISION — SHEET W3.7



NOTE: PLUG SHALL BE MECHANICALLY RESTRAINED.

PARKER WATER & SANITATION DISTRICT

LOW POINT BLOW-OFF WITH SAND TRAP

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

2016 REVISION — SHEET W3.8

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No.	Revisions	Date	Init.	Appr.	Date

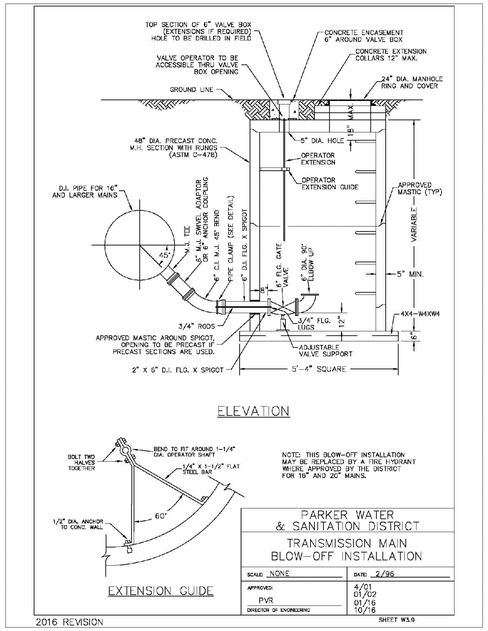
10333 E. Dry Creek Rd.
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CVL CONSULTANTS

ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017

SHEET NUMBER 85



ELEVATION

EXTENSION GUIDE

NOTE: THIS BLOW-OFF INSTALLATION MAY BE REPLACED BY A FIRE HYDRANT WHERE APPROVED BY THE DISTRICT FOR 16" AND 20" MAINS.

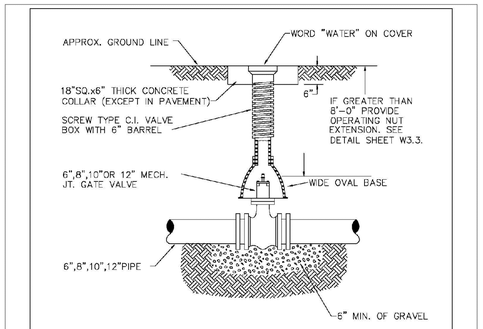
PARKER WATER & SANITATION DISTRICT

TRANSMISSION MAIN BLOW-OFF INSTALLATION

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

2016 REVISION

SHEET W3.9



5-INCH VALVE BOXES

CHECK MATERIAL SPECIFICATIONS

NOTES:

1. ALL C.I. SHALL BE WRAPPED WITH 8 MIL. MIN. THICKNESS POLYETHYLENE.
2. VALVE NUT SHALL BE CENTERED.
3. VALVE BOX SHALL BE PLUMB.
4. SEE MATERIAL SPECIFICATIONS FOR VALVE BOX WITH GREATER THAN BURIED DEPTH OF 4.5 FT.

PARKER WATER & SANITATION DISTRICT

VALVE BOX DETAIL

SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	5/98, 10/16, 5/99, 12/07, 1/16

2016 REVISION

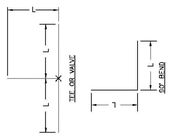
SHEET W3.10

LENGTH OF TIED PIPE

PIPE SIZE		4"			6"			8"			12"			16"			20"			24"		
		D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
VALVE AND 90° BEND		3/4"	8.0'	M.S.	3/4"	13.5'	M.S.	3/4"	20.0'	M.S.	3/4"	40.5'	M.S.	3/4"	60.5'	M.S.	1"	80.5'	M.S.	–	155.5'	–
45° BEND		3/4"	2.0'	M.S.	3/4"	4.0'	M.S.	3/4"	6.0'	M.S.	3/4"	11.0'	M.S.	1"	18.0'	M.S.	3/4"	24.0'	M.S.	–	43.0'	–
22-1/2° BEND		3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	3/4"	2.0'	M.S.	3/4"	3.0'	M.S.	3/4"	5.0'	M.S.	3/4"	8.0'	M.S.	–	13.0'	–
11-1/4° BEND		3/4"	0.0'	M.S.	3/4"	0.0'	M.S.	3/4"	0.0'	M.S.	3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	–	2.0'	–

NOTES:

1. LENGTH OF TIED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. CLAMPS AND RODS NOT ALLOWED FOR 24" AND LARGER PIPES.
3. D = DIAMETER, L = LENGTH, G = GRADE, M.S. = MILD STEEL.
4. MINIMUM 4.5' COVER REQUIRED.
5. BASED ON 150 PSI INTERNAL PRESSURE.
6. M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36.
7. A.S. MEANS HIGH STRENGTH ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE B-7.
8. NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A HEXAGON HEAVY SERIES.
9. SEE TIE ROD DETAIL DRAWING ALSO, TIE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS.
10. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TO RESIST THRUST FORCES AT BENDS AND VALVES.
11. STAR BOLTS NOT ALLOWED ON PIPE LARGER THAN 16".
12. MINIMUM OF 4 RODS REQUIRED ON 16" PIPE IF STAR BOLTS ARE USED.
13. TEES ARE TO BE ROD/ED ON BRANCH ONLY.



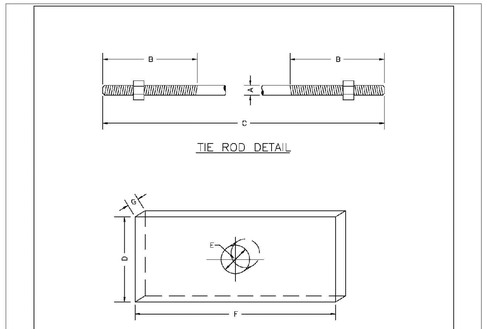
PARKER WATER & SANITATION DISTRICT

LENGTH OF TIED PIPE

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

2016 REVISION

SHEET W3.11



TIE RODS

A ROD DIAMETER	B THREAD LENGTH	C ROD LENGTH
3/4"	6"	1'-0" TO 11'-6" & 20'
1"	6"	1'-0" TO 11'-6" & 20'
1-1/4"	ALL THREAD	1'-0" TO 11'-6" & 20'

WASHERS

D WIDTH	E HOLE DIAMETER	F LENGTH	G THICKNESS
3"	7/8"	6"	3/8"
3"	1-1/16"	7"	1/2"
4"	1-3/8"	7"	5/8"

NOTES:

1. SEE TIED JOINTS ROD DIMENSIONS SHEET.
2. SEE CLAMP DETAILS AND DIMENSIONS (SHEET W3.15) FOR PROPER PLACEMENT OF WASHERS.

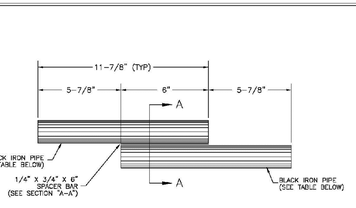
PARKER WATER & SANITATION DISTRICT

TIE ROD AND WASHER DETAILS

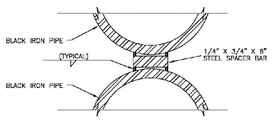
SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/16, 10/16

2016 REVISION

SHEET W3.12



TIE ROD COUPLING DETAIL



SECTION "A-A"

NOTE:
BLACK IRON PIPE = SCHEDULE 40.

ROD SIZE	PIPE DIAMETER
3/4"	1"
1"	1-1/4"
1-1/4"	1-1/2"

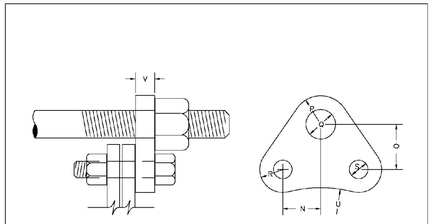
PARKER WATER & SANITATION DISTRICT

TIE ROD COUPLING

SCALE: NONE	DATE: 2/95
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/16, 10/16

2016 REVISION

SHEET W3.13



FLANGE LUG DETAIL

DIMENSIONS (IN INCHES)

PIPE DIA.	N	O	I.S. ROD P	I.S. ROD Q	I.S. ROD DIA.	W.S. ROD P	W.S. ROD Q	W.S. ROD DIA.	R	S	U	V	PIPE DIA.
4	1-7/16	3	1	7/8	3/4	1	7/8	3/4	7/8	3/4	2-7/8	3/4	4
6	1-15/16	2-1/4	1	7/8	3/4	1	7/8	3/4	7/8	7/8	2-7/8	3/4	6
8	2-7/16	2-3/4	1	7/8	3/4	1	7/8	3/4	1	7/8	4-7/8	3/4	8
12	2-3/16	2-3/4	1-1/8	7/8	3/4	1-1/4	1-1/8	1	1-1/8	1	7-1/4	7/8	12
16	2-7/16	2-3/4	1-1/8	7/8	3/4	1-1/2	1-3/8	1-1/4	1-1/4	1-1/8	9-3/8	1-1/8	16
20	1-3/20	2-3/4	1-1/8	1-1/8	1			1-1/4	1-3/16	1-1/4	11-3/16	1-1/2	20
24	RODS AND CLAMPS NOT ALLOWED												24

NOTES:

1. M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36. (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES).
2. H.S. MEANS HIGH STRENGTH STEEL ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE B7, (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-194 GRADE 2H).
3. FLANGE LUGS SHALL NOT BE USED ON VALVES.

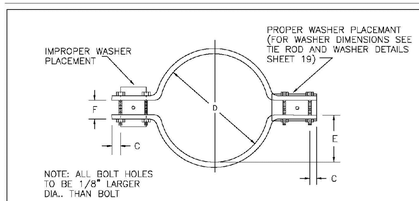
PARKER WATER & SANITATION DISTRICT

FLANGE LUG DETAIL

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

2016 REVISION

SHEET W3.14



CLAMP DETAILS

DIMENSIONS

TABLE OF DIMENSIONS FOR CLAMPS

PIPE DIA.	BAR SIZE	A BELL CLAMP	A BODY CLAMP	B BELL CLAMP	B BODY CLAMP	C BELL CLAMP	D BODY CLAMP	D BELL CLAMP	D BODY CLAMP	E BELL CLAMP	E BODY CLAMP	F BELL CLAMP	F BODY CLAMP	BOLT SIZES BELL CLAMP	BOLT SIZES BODY CLAMP	PIPE DIA.
4	1-1/2X1/2	9-3/4	7-1/2	3-1/2	3-1/2	1	1	6-3/4	4-7/8	2-3/4	1-13/16	1-1/4	1-1/4	3X1/2	2-1/2X3/8	4
6	2X1/2	13	9-1/2	4	4-1/2	2	2	10-1/4	7-1/8	4-1/8	2-15/16	2	1-1/4	3-1/2X1/2	3-1/2X1/2	6
8	2-1/2X1/2	15	12-3/4	4-3/4	4-1/2	1-1/4	1-1/2	12-1/4	9-1/4	5-1/8	4	2	1-1/4	4-1/2X1/2	4X1/2	8
12	2-1/2X5/8	17-1/2	16-5/8	6-5/8	6-3/4	1	1-1/4	14-1/2	13-1/2	6	5-1/2	2-1/2	2-1/2	6-1/2X5/8	4-1/2X5/8	12
16	3X3/4	24-1/2	21-7/8	4-1/2	4-3/4	1-1/2	1-1/2	16-3/4	17-1/2	8-5/8	7-1/2	3	2-1/2	5-1/2X5/8	5-1/2X5/8	16
20	3X3/4	30-1/2	25-5/8	4-1/2	4-3/4	1-1/2	1-1/2	24-3/4	21-3/4	10-7/8	9-1/2	3	2-3/4	5-1/2X5/8	5-1/2X5/8	20
24	RODS AND CLAMPS NOT ALLOWED															24

NOTE: ALL DIMENSIONS IN INCHES
CLAMPS MAY NOT BE USED ON PWD PIPE.

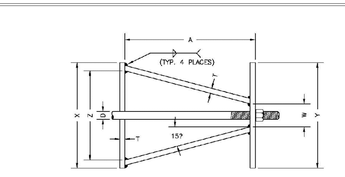
PARKER WATER & SANITATION DISTRICT

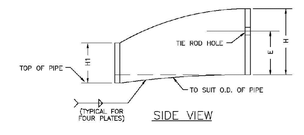
CLAMP DETAILS AND DIMENSIONS

SCALE: NONE	DATE: 2/95
APPROVED: PVR, DIRECTOR OF ENGINEERING	12/07, 1/16, 10/16

2016 REVISION

SHEET W3.15





HARNESS LUG DIMENSIONS

CARRIER PIPE NOMINAL DIA.	STUD DIA. D	A	W	Z	T	H	E	H1	Y	X
4" TO 16"	3/4"	5"	1-1/2"	3-3/4"	3/8"	4-1/8"	3-1/8"	2"	4-1/2"	5"
20"	1"	5-3/4"	1-3/4"	4-7/16"	3/8"	4-1/2"	3-1/4"	2"	5-1/4"	5-11/16"

NOTES:

1. USE TWO HIGH STRENGTH STEEL TIE RODS AT END OF CASING.
2. TIE ROD HOLE DIAMETER 1/8" LARGER THAN STUD DIAMETER.
3. BOTTOM EDGE OF ALL PLATES SHAPED TO FIT O.D. OF PIPE.

PARKER WATER & SANITATION DISTRICT

HARNESS LUG DETAILS

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

2016 REVISION

SHEET W3.16

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
UNCC UTILITY NOTIFICATION CENTER OF COLORADO

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\FI\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\FI WATER DETAILS.DWG, BRIANW, 12/7/2017 10:50 PM

No.	Revisions	Date	Init.	Appr.	Date

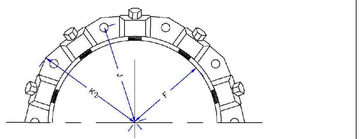
CVL CONSULTANTS
10333 E. Dry Creek Rd.
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Englewood, CO 80112
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ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

SCALE: AS SHOWN
DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017
FILE NO: 8130283701

SHEET NUMBER 86



MECHANICAL JOINT RESTRAINT



WEDGE DETAIL



BOLT HOLE DETAIL

	NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	K INCHES	F INCHES	M INCHES	
P	4"	2	2					P
	6"	6	3	11.12	9.5	7.00	0.88	
V	8"	8	4	13.37	11.75	9.15	1.00	V
	10"	8	6	15.62	14.00	11.20	1.00	
C	12"	8	8	17.88	16.25	13.30	1.25	C
	4"	4	2					
D	6"	6	3	11.12	9.5	7.00	0.88	D
	8"	8	4	13.37	11.75	9.15	1.00	
I	10"	8	6	15.62	14.00	11.20	1.00	I
	12"	8	8	17.88	16.25	13.30	1.25	

NOTES:

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

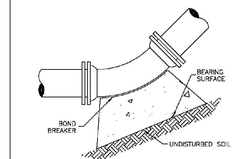
PARKER WATER & SANITATION DISTRICT

MECHANICAL JOINT RESTRAINT DETAILS

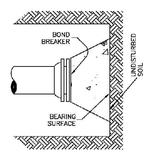
SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	2/00 12/07 1/16 10/16

2016 REVISION

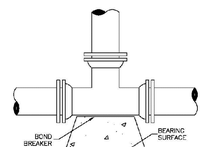
SHEET W3.17



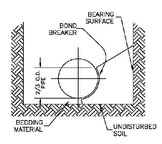
11-1/4°, 22-1/2°, 45° & 90° BENDS



DEAD END



TEE



TYPICAL CROSS SECTION

NOTES:

1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND KICKBLOCKED.
2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
3. BASED ON 150 PSI PIPE PRESSURE PLUS WATER HAMMER:
   4", 6" AND 8" WATER HAMMER = 120 PSI.
   12" WATER HAMMER = 110 PSI
   16", 20" AND 24" WATER HAMMER = 70 PSI.
4. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

SIZE OF PIPE	BENDS 11-1/4°	22-1/2°	45°	90°	TEE OR DEAD END
4"	1.00	1.00	1.00	1.80	3.50
6"	1.00	1.00	2.25	4.00	5.00
8"	1.00	2.00	4.00	7.00	9.00
12"	2.00	4.00	8.95	15.80	17.50
16"	3.30	5.50	12.50	23.00	18.50
20"	5.00	10.00	19.50	35.00	25.00
24"	8.50	13.00	28.00	47.00	33.00

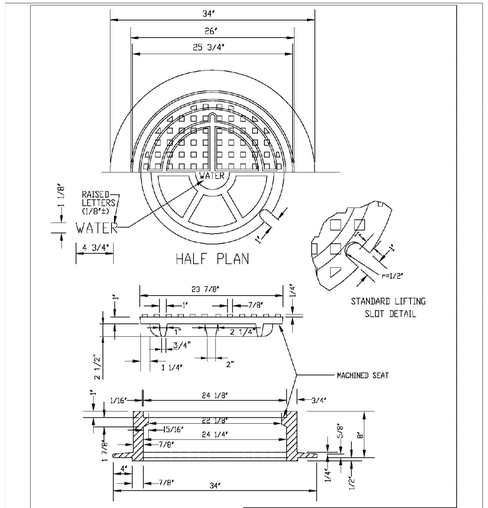
PARKER WATER & SANITATION DISTRICT

CONCRETE KICKBLOCKS
BEARING SURFACES AND INSTALLATION

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

2016 REVISION

SHEET W3.18



NOTE

1. Casting Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
2. All Casting To Be Dipped In Asphalt Base Paint (Or Approved Equal).

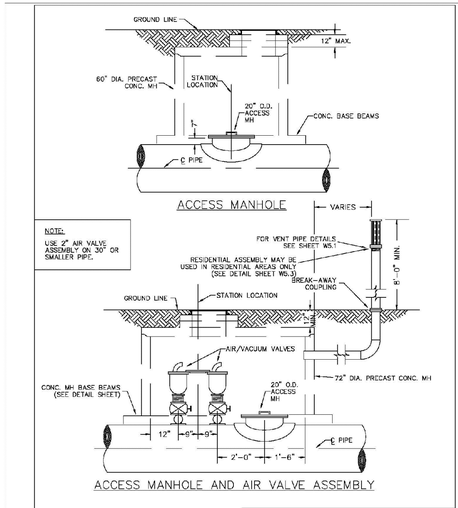
PARKER WATER & SANITATION DISTRICT

24" DIAMETER RING AND COVER

SCALE: NONE	DATE: 6/05
APPROVED: PVR DIRECTOR OF ENGINEERING	12/07 1/16 10/16

2016 REVISION

SHEET W3.19



NOTE:

SEE SHEET W3.6 FOR CONCRETE MANHOLE BASE BEAMS AND AIR/VACUUM VALVE DETAILS.

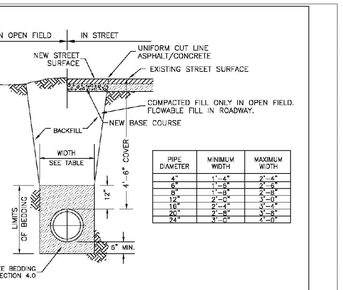
PARKER WATER & SANITATION DISTRICT

ACCESS MANHOLE ASSEMBLY

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

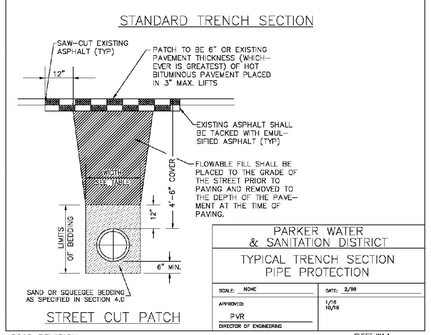
2016 REVISION

SHEET W3.20



PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-8"	2'-4"
6"	1'-8"	2'-6"
8"	1'-10"	2'-8"
12"	2'-0"	3'-0"
16"	2'-2"	3'-4"
20"	2'-4"	3'-8"
24"	2'-6"	4'-0"

STANDARD TRENCH SECTION



STREET CUT PATCH

PARKER WATER & SANITATION DISTRICT

TYPICAL TRENCH SECTION PIPE PROTECTION

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

2016 REVISION

SHEET W4.1

PIPE BEDDING:

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

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

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

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet W4.1 of the Standard Details for a typical trench cross section.

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

Well-Graded Sand for (24-inch or large diameter)

Sieve Size	Total Percent Passing by Weight
3/8 Inch	100
No. 4	70-100
No. 8	36-93
No. 16	20-80
No. 30	8-55
No. 50	2-30
No. 100	1-10
No. 200	0-3

Squeegee Sand
for use with 20-inch or smaller

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

If approved by the District, flows form the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone-sized soil that does not fully pass a 1-inch sieve, frozen, or any other detrimental substance, shall be placed closer to the pipe than six inches (6"). Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

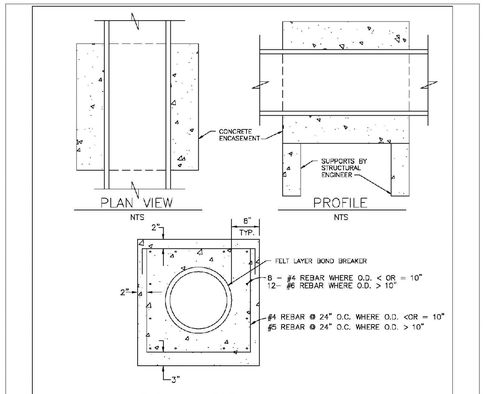
PARKER WATER & SANITATION DISTRICT

PIPE BEDDING

SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	5/88 2/00 1/16 10/16

2016 REVISION

SHEET W4.2



TYPICAL SECTION
NTS

NOTES:

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

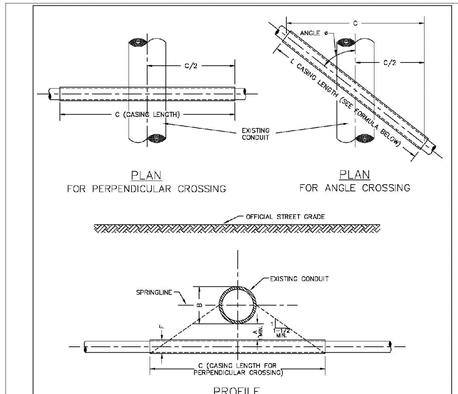
PARKER WATER & SANITATION DISTRICT

WATERLINE ENCASEMENT

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

2016 REVISION

SHEET W4.3



FORMULA FOR FINDING C:

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

- PERPENDICULAR CROSSING CASING LENGTH
- O.D. WATER DEPARTMENT CONDUIT
- CONSTANT
- RATIO OF MIN. SLOPE
- CASING O.D.
- VERTICAL DISTANCE BETWEEN CASING AND WATER DEPARTMENT CONDUIT
- 1/2 O.D. WATER DEPARTMENT CONDUIT

FORMULA FOR FINDING L:

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

NOTES:

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

PARKER WATER & SANITATION DISTRICT

BORED CROSSINGS BENEATH CONDUITS

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

2016 REVISION

SHEET W4.4

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

CVL CONSULTANTS

No.	Revisions	Date	Init.	Appr.	Date

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

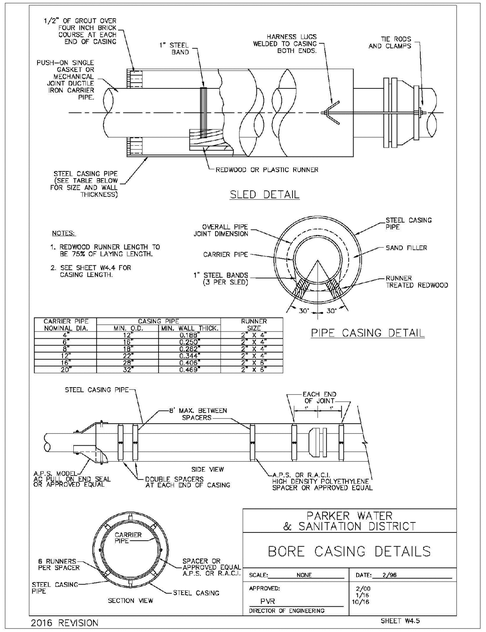
SHEET NUMBER 87

DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017

SCALE: AS SHOWN
FILE NO: 8130283701

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N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F1\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\F1 WATER DETAILS.DWG, BRIANW, 12/7/2017 10:50 PM



SLED DETAIL

NOTES:

1. REDWOOD RUNNER LENGTH TO BE 75% OF LAYING LENGTH.
2. SEE SHEET W4.4 FOR CASING LENGTH.

CARRIER PIPE NOMINAL DIA.	CASING PIPE MIN. O.D.	CASING PIPE MIN. WALL THICK.	RUNNER (REF.)
4"	12"	0.188"	2" X 4"
6"	16"	0.250"	2" X 4"
8"	18"	0.250"	2" X 4"
12"	24"	0.344"	2" X 4"
16"	30"	0.375"	2" X 5"
20"	36"	0.469"	2" X 5"

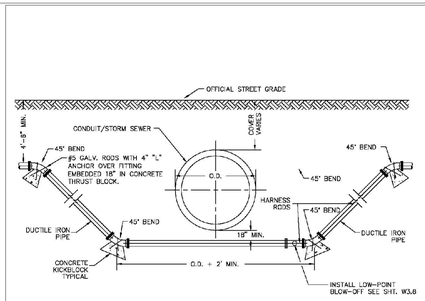
PIPE CASING DETAIL

PARKER WATER & SANITATION DISTRICT

BORE CASING DETAILS

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	2/00, 1/15, 10/15

2016 REVISION — SHEET W4.5



NOTES:

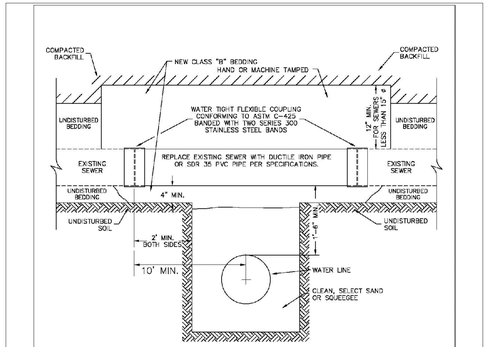
1. LENGTH OF EXTENSION OF PIPE AND HARNESS RODS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
2. ALL WATER MAINS TWELVE (12") INCHES OR SMALLER, WHICH CROSS UNDER CONDUITS/STORM SEWER SHALL BE DUCTILE IRON OR PVC PER SPECIFICATIONS.
3. A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.
4. CONCRETE KICKBLOCKS PER SHEET W3.18.

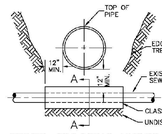
PARKER WATER & SANITATION DISTRICT

CONDUIT OR STORM SEWER CROSSING

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	2/98, 10/16, 2/00, 12/07, 1/18

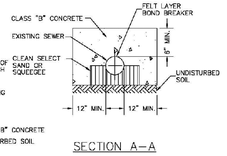
2016 REVISION — SHEET W4.6





SEWER CROSSING UNDER
LESS THAN 18" BETWEEN PIPES

1. PIPE SHALL BE WRAPPED WITH FELT LAYER BEFORE ENCASING.



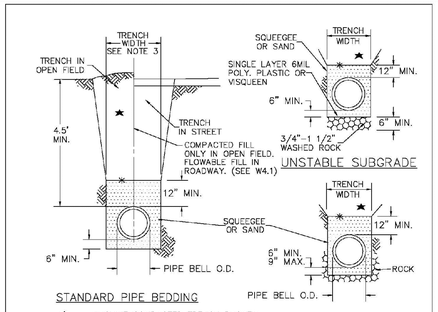
SECTION A—A

PARKER WATER & SANITATION DISTRICT

CROSSING STORM & SANITARY SEWERS

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/15, 10/15

2016 REVISION — SHEET W4.7



STANDARD PIPE BEDDING

★ MACHINE COMPACTED TRENCH BACKFILL

✱ LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS

UNDISTURBED GROUND

PIPE BEDDING IN ROCK

NOTES:

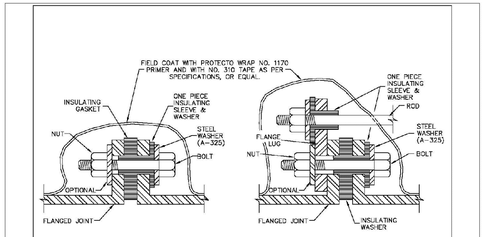
1. MIN.COVER TO BE BELOW FINAL STREET GRADE. CONSTRUCTION OF WATER MAIN MAY NOT START UNTIL FINAL GRADE WITHIN 1 FOOT.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE PROTECTION OF OTHER UTILITIES AND TO MEET OSHA SAFETY REQUIREMENT.
3. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE LAID THEREIN (BELL OR COUPLING O.D. IF APPLICABLE). REFER TO SHEET W4.1 FOR DIMENSIONS.

PARKER WATER & SANITATION DISTRICT

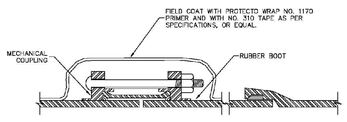
BEDDING DETAILS

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

2016 REVISION — SHEET W4.8



INSULATED JOINT — INSULATED ROD



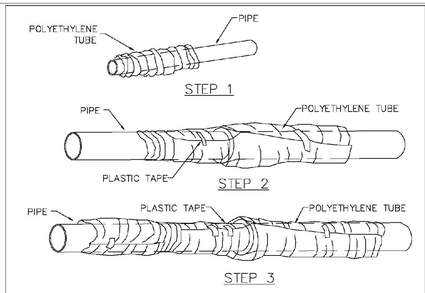
INSULATED MECHANICAL COUPLING

PARKER WATER & SANITATION DISTRICT

INSULATED JOINTS, RODS AND MECHANICAL COUPLINGS

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/15, 10/15

2016 REVISION — SHEET W4.10



FIELD INSTALLATION — POLYETHYLENE WRAP

STEP 1 – PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2 – PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.

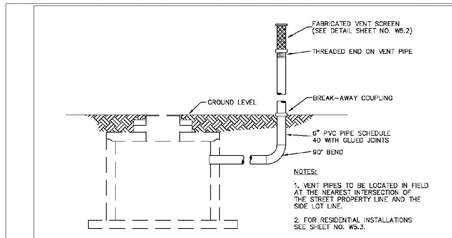
STEP 3 – OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

PARKER WATER & SANITATION DISTRICT

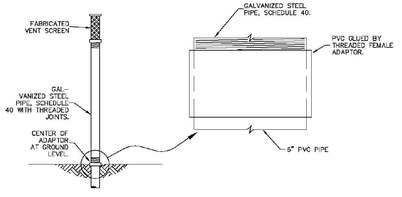
POLYETHYLENE WRAP

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

2016 REVISION — SHEET W4.11



VENT PIPE INSTALLATION



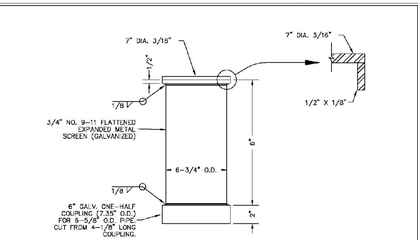
VENT PIPE AND BREAK-AWAY COUPLING DETAILS

PARKER WATER & SANITATION DISTRICT

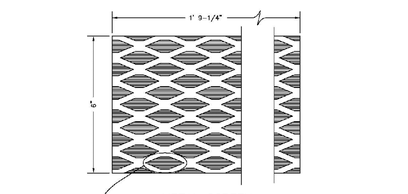
VENT PIPE INSTALLATION AND DETAILS

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

2016 REVISION — SHEET W5.1



ELEVATION
SCREEN FOR 6" VENT PIPE



METAL SCREEN

PARKER WATER & SANITATION DISTRICT

6" DIA. VENT PIPE SCREEN

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

2016 REVISION — SHEET W5.2

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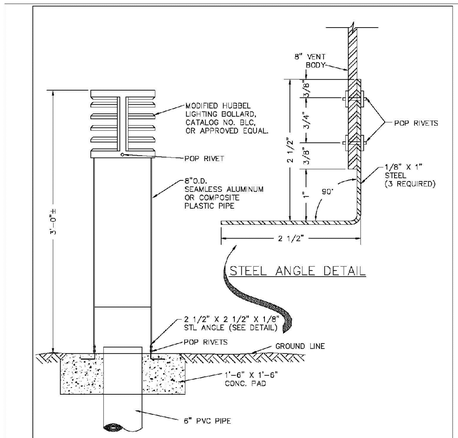
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546
CVL CONSULTANTS

No.	Revisions	Date	Init.	Appr.	Date

E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

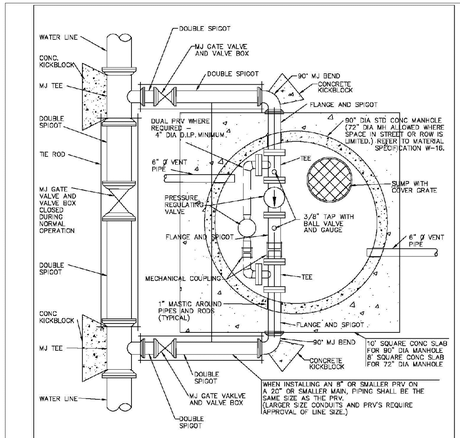
TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RRR
CHECKED BY: JJJ
DATE: APRIL 2017
SHEET NUMBER 88



PARKER WATER & SANITATION DISTRICT	
RESIDENTIAL ONLY VENT ASSEMBLY	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	1/16 10/16

2016 REVISION — SHEET W5.3



NOTES:

1 – A RECTANGULAR VAULT IS REQUIRED WHERE TELEMETRY OR ELECTRICAL EQUIPMENT IS ANTICIPATED INSIDE THE VAULT.

2 – ACCESS STAIRS WITH DOOR OUTSIDE OF PAVEMENT MAY BE REQUIRED ON STREETS WITH HEAVY TRAFFIC.

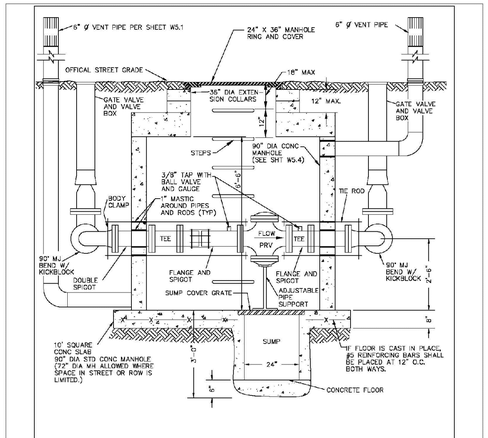
3 – FOR ELEVATION VIEW SEE CROSS SECTION DWG SHEET NO. W5.5.

4 – DO NOT PLACE SUMP DIRECTLY UNDER MANHOLE.

5 – POLYETHENE STEPS SHALL BE INSTALLED.

PARKER WATER & SANITATION DISTRICT	
PRESSURE REGULATING VALVE MANHOLE INSTALLATION TYPICAL PLAN	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	2/03 5/03 1/16 10/16

2016 REVISION — SHEET W5.4



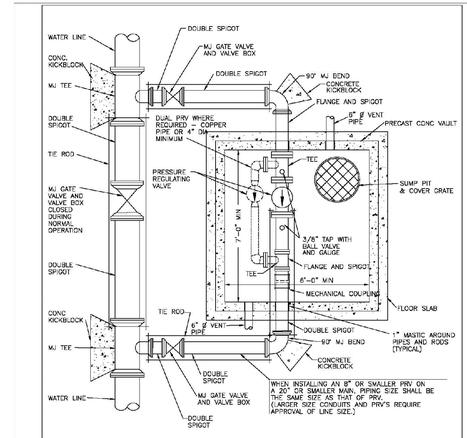
NOTES:

1 – SEE SHT. W5.4 FOR PLAN VIEW AND ADDITIONAL NOTES.

2 – POLYETHENE STEPS SHALL BE INSTALLED. INSULATED STEPS IN CHIMNEY SECTION SHALL BE INSTALLED AS A HANDHOLD & SHALL NOT IMPEDE ACCESS THRU THE CHIMNEY.

PARKER WATER & SANITATION DISTRICT	
PRESSURE REGULATING VALVE MANHOLE INSTALLATION CROSS SECTION	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	4/01 5/03 1/16 10/16

2016 REVISION — SHEET W5.5



NOTES:

1 – A RECTANGULAR VAULT IS REQUIRED WHERE TELEMETRY OR ELECTRICAL EQUIPMENT INSIDE THE VAULT IS ANTICIPATED.

2 – ACCESS STAIRS WITH DOOR OUTSIDE OF PAVEMENT MAY BE REQUIRED ON STREETS WITH HEAVY TRAFFIC.

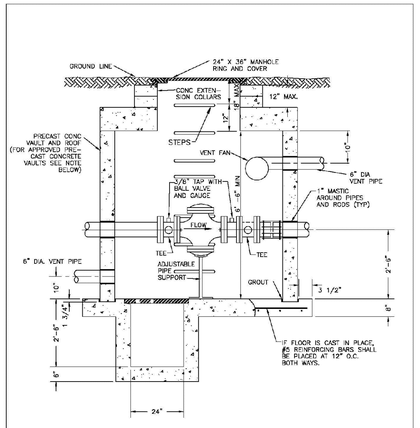
3 – FOR ELEVATION VIEW SEE CROSS SECTION DWG SHEET NO. W5.7.

4 – SUMP PUMP AND VENT FAN REQUIRED IN VAULTS WITH ELECTRICAL OR TELEMETRY EQUIPMENT.

5 – POLYETHENE STEPS SHALL BE INSTALLED.

PARKER WATER & SANITATION DISTRICT	
PRESSURE REGULATING VALVE RECTANGULAR VAULT TYPICAL PLAN	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	2/03 5/03 1/16 10/16

2016 REVISION — SHEET W5.6



NOTES:

1 – APPROVED PRECAST CONCRETE VAULTS PER MATERIAL SPECIFICATIONS W-16.

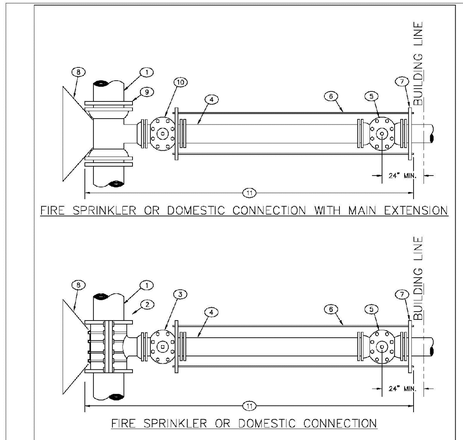
2 – A PERMIT IS REQUIRED FOR SUMP PUMP DISCHARGE TO STORM SEWERS.

3 – SEE SHEET W5.6 FOR PLAN VIEW AND ADDITIONAL NOTES.

4 – POLYETHENE STEPS SHALL BE INSTALLED.

PARKER WATER & SANITATION DISTRICT	
PRESSURE REGULATING VALVE RECTANGULAR VAULT CROSS SECTION	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	4/01 5/03 1/16 10/16

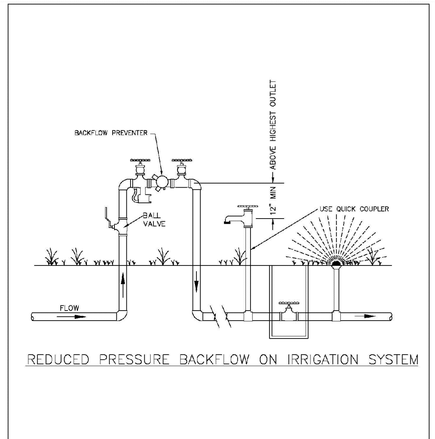
2016 REVISION — SHEET W5.7



1. EXISTING MAIN
2. TAPPING SLEEVE
3. TAPPING VALVE
4. DOUBLE SPIGOT PIPE
5. PROPERTY LINE VALVE
6. TIE RODS
7. PIPE CLAMP
8. CONCRETE KICKBLOCK
9. M.J. ANCHORING TEE (SWIVEL TEE)
10. M.J. VALVE
11. POLYETHYLENE WRAPPED

PARKER WATER & SANITATION DISTRICT	
3" AND LARGER DOMESTIC AND FIRE SPRINKLER CONNECTIONS	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	1/16 10/16

2016 REVISION — SHEET W5.18

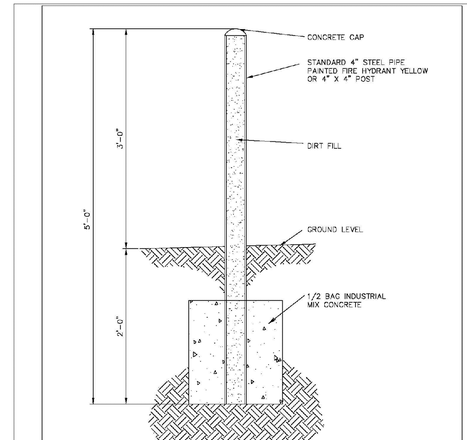


REDUCED PRESSURE BACKFLOW ON IRRIGATION SYSTEM

NOTE:
1. ALL IRRIGATION SYSTEMS MUST BE CONNECTED DOWN STREAM OF METER.
2. PROVIDE ENCLOSURE.

PARKER WATER & SANITATION DISTRICT	
REDUCED PRESSURE BACKFLOW	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	2004 05/05 1/16 10/16

2016 REVISION — SHEET W5.1



MARKER POST DETAIL

STEEL PIPE
STENCILED IDENTIFICATION MARKS WITH BLACK PAINT ON POSTS SHALL FACE THE APPURTENANCE, WITH 2" STENCILS INDICATING TYPE OF APPURTENANCE (MH, 12" VALVE, ETC.) AND THE DISTANCE IN FEET AND INCHES FROM POST.

REDWOOD POST
ROUTER LETTERS AND NUMBERS INTO POST. PAINT LETTERS AND NUMBERS BLACK, OR CUT NUMBERS INTO THE WOOD.

PARKER WATER & SANITATION DISTRICT	
MARKER POST	
SCALE: NONE	DATE: 2/98
APPROVED: PVR DIRECTOR OF ENGINEERING	2/00 10/16 4/01 12/07 1/16

2016 REVISION — SHEET W5.3

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No.	Revisions	Date	Init.	Appr.	Date

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E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 1 CONSTRUCTION DRAWINGS
WATER DETAILS

SHEET NUMBER 89

DRAWN BY:	RRR
CHECKED BY:	JJJ
DATE:	APRIL 2017

SCALE: AS SHOWN
FILE NO: 8130283701