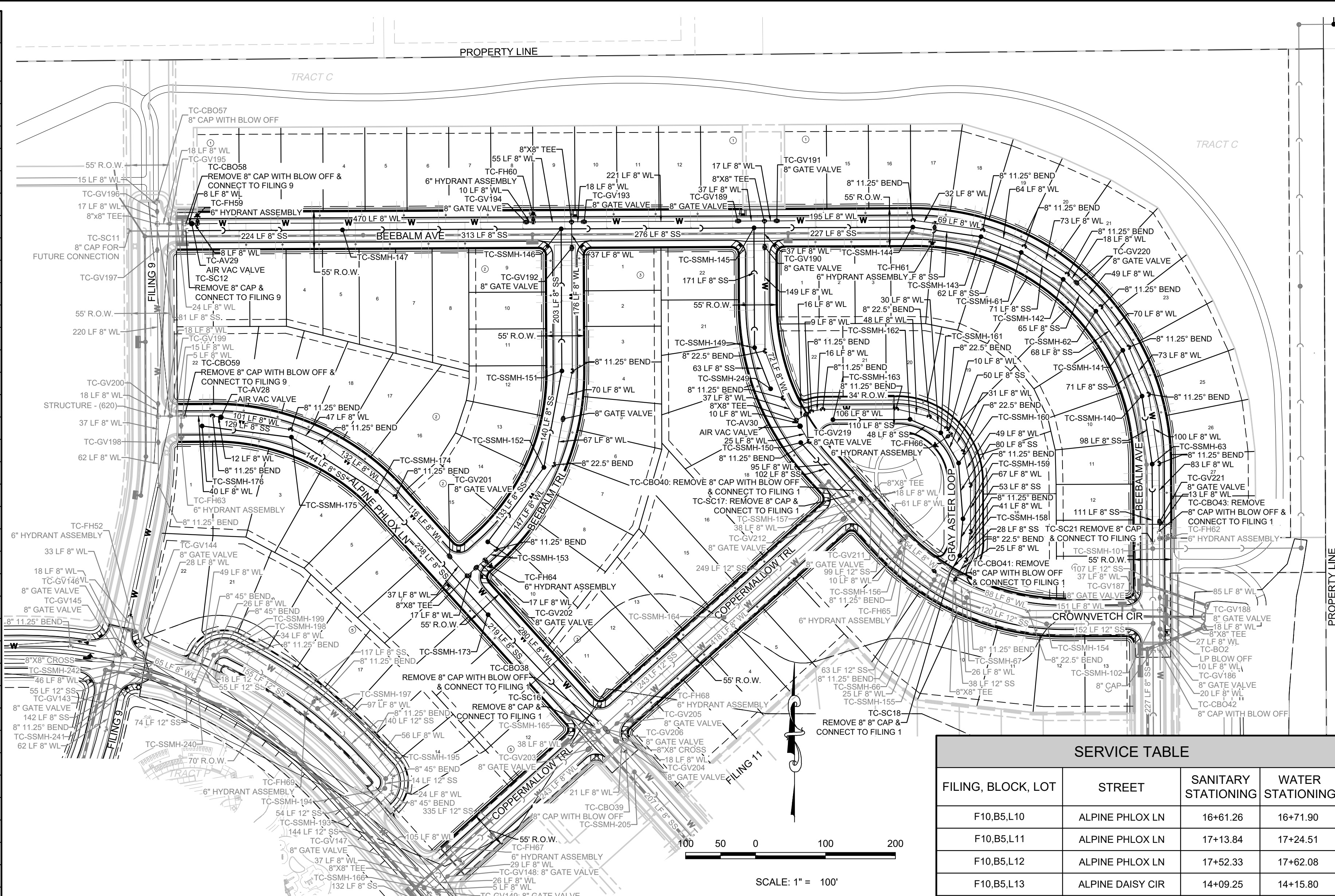


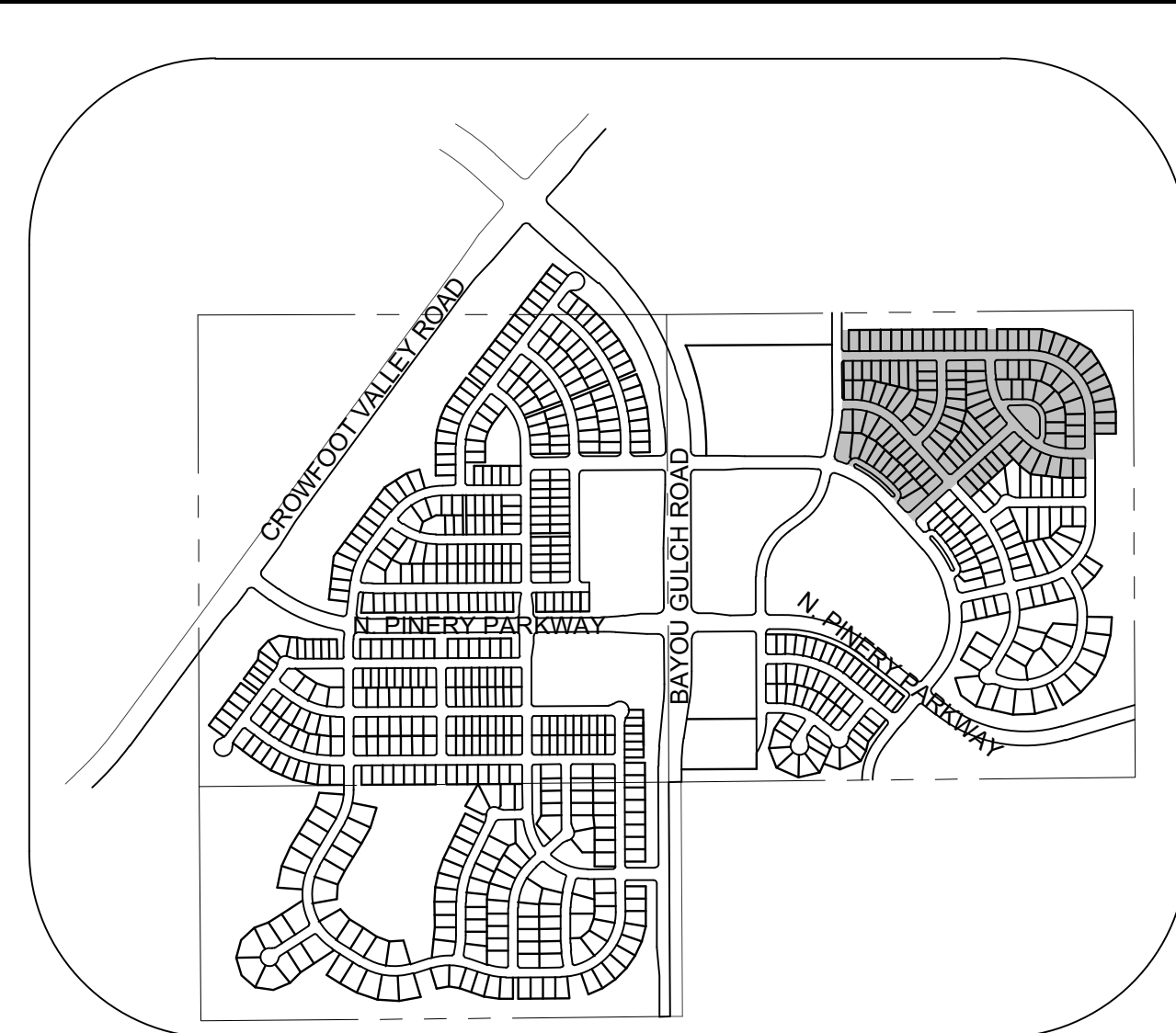
SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B1,L1	BEEBALM AVE	11+62.50	17+72.50
F10,B1,L2	BEEBALM AVE	12+22.50	11+72.50
F10,B1,L3	BEEBALM AVE	12+81.22	12+32.50
F10,B1,L4	BEEBALM AVE	13+33.40	12+92.50
F10,B1,L5	BEEBALM AVE	14+02.49	13+52.50
F10,B1,L6	BEEBALM AVE	14+62.50	14+12.50
F10,B1,L7	BEEBALM AVE	15+22.50	14+72.50
F10,B1,L8	BEEBALM AVE	15+82.50	15+32.50
F10,B1,L9	BEEBALM AVE	16+42.48	15+92.50
F10,B1,L10	BEEBALM AVE	17+02.49	16+52.50
F10,B1,L11	BEEBALM AVE	17+62.49	17+12.50
F10,B1,L12	BEEBALM AVE	18+22.50	18+32.50
F10,B1,L13	BEEBALM AVE	18+82.50	18+92.50
F10,B1,L14	BEEBALM AVE	20+01.89	20+12.50
F10,B1,L15	BEEBALM AVE	20+60.13	20+72.50
F10,B1,L16	BEEBALM AVE	21+19.45	21+32.50
F10,B1,L17	BEEBALM AVE	21+74.22	21+84.48
F10,B1,L18	BEEBALM AVE	22+25.18	22+33.85
F10,B1,L19	BEEBALM AVE	22+82.39	22+91.76
F10,B1,L20	BEEBALM AVE	23+33.18	23+43.04
F10,B1,L21	BEEBALM AVE	23+84.90	23+95.22
F10,B1,L22	BEEBALM AVE	24+30.45	24+46.83
F10,B1,L23	BEEBALM AVE	24+91.72	25+00.86
F10,B1,L24	BEEBALM AVE	25+43.57	25+53.27
F10,B1,L25	BEEBALM AVE	25+93.93	26+04.58
F10,B1,L26	BEEBALM AVE	26+51.34	26+60.35
F10,B1,L27	BEEBALM AVE	27+06.52	27+16.52
F10,B1,L28	BEEBALM AVE	27+66.52	27+76.52
F10,B2,L1	BEEBALM AVE	11+24.68	11+34.68
F10,B2,L2	BEEBALM AVE	11+76.86	11+86.86
F10,B2,L3	BEEBALM AVE	12+29.04	12+39.04
F10,B2,L4	BEEBALM AVE	12+78.58	12+91.22
F10,B2,L5	BEEBALM AVE	13+29.83	13+43.40
F10,B2,L6	BEEBALM AVE	13+82.49	13+92.49
F10,B2,L7	BEEBALM AVE	14+37.76	14+47.76
F10,B2,L8	BEEBALM AVE	14+90.00	15+00.00
F10,B2,L9	BEEBALM TRL	10+55.50	10+45.50
F10,B2,L10	BEEBALM TRL	11+05.24	10+95.25
F10,B2,L11	BEEBALM TRL	11+57.75	11+47.90
F10,B2,L12	BEEBALM TRL	12+18.89	11+93.41
F10,B2,L13	BEEBALM TRL	12+88.59	12+77.94
F10,B2,L14	BEEBALM TRL	13+76.17	13+66.36
F10,B2,L15	BEEBALM TRL	14+55.05	14+42.29
F10,B2,L16	ALPINE PHLOX LN	13+54.95	13+68.94
F10,B2,L17	ALPINE PHLOX LN	12+99.16	13+08.40
F10,B2,L18	ALPINE PHLOX LN	12+50.07	12+61.30
F10,B2,L19	ALPINE PHLOX LN	12+10.13	12+20.32
F10,B2,L20	ALPINE PHLOX LN	11+69.14	11+77.62
F10,B2,L21	ALPINE PHLOX LN	11+18.72	11+29.12
F10,B2,L22	ALPINE PHLOX LN	10+72.75	10+84.26
F10,B3,L1	BEEBALM TRL	10+52.50	10+42.50
F10,B3,L2	BEEBALM TRL	11+03.64	10+93.64
F10,B3,L3	BEEBALM TRL	11+54.79	11+44.79
F10,B3,L4	BEEBALM TRL	12+10.59	11+95.94
F10,B3,L5	BEEBALM TRL	12+49.37	12+40.10
F10,B3,L6	BEEBALM TRL	12+99.53	12+88.19
F10,B3,L7	BEEBALM TRL	13+39.24	13+32.15
F10,B3,L8	BEEBALM TRL	13+82.82	13+74.37
F10,B3,L9	BEEBALM TRL	14+32.75	14+22.50
F10,B3,L10	BEEBALM TRL	14+81.93	14+69.75
F10,B3,L11	COPPERMALLOW TRL	14+05.90	14+17.00
F10,B3,L12	COPPERMALLOW TRL	14+54.80	14+67.00



SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B3,L13	COPPERMALLOW TRL	15+03.70	15+17.00
F10,B3,L14	COPPERMALLOW TRL	15+52.60	15+67.00
F10,B3,L15	COPPERMALLOW TRL	16+01.50	16+17.00
F10,B3,L16	COPPERMALLOW TRL	16+59.16	16+73.47
F10,B3,L17	CROWNVETCH CIR	13+73.40	13+93.40
F10,B3,L18	CROWNVETCH CIR	13+19.21	13+30.07
F10,B3,L19	CROWNVETCH CIR	12+31.57	12+21.27
F10,B3,L20	CROWNVETCH CIR	11+75.71	11+67.62
F10,B3,L21	CROWNVETCH CIR	11+17.53	11+07.64
F10,B3,L22	CROWNVETCH CIR	10+42.50	10+32.50
F10,B4,L1	BEEBALM AVE	19+90.78	20+00.78
F10,B4,L2	BEEBALM AVE	20+42.13	20+52.13
F10,B4,L3	BEEBALM AVE	20+93.48	21+03.48
F10,B4,L4	BEEBALM AVE	21+56.27	21+66.98
F10,B4,L5	BEEBALM AVE	22+27.54	22+45.76
F10,B4,L6	BEEBALM AVE	23+12.53	23+22.96
F10,B4,L7	BEEBALM AVE	23+90.23	24+00.40
F10,B4,L8	BEEBALM AVE	24+67.79	24+77.66
F10,B4,L9	BEEBALM AVE	25+45.58	25+55.22
F10,B4,L10	BEEBALM AVE	26+24.51	26+34.36
F10,B4,L11	BEEBALM AVE	26+88.86	26+98.86
F10,B4,L12	BEEBALM AVE	27+40.21	27+50.21
F10,B4,L13	BEEBALM AVE	27+81.52	27+90.40

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B4,L14	BEEBALM AVE	28+36.73	28+58.88
F10,B4,L15	GRAY ASTER LOOP	14+07.86	14+19.36
F10,B4,L16	GRAY ASTER LOOP	13+66.95	13+81.42
F10,B4,L17	GRAY ASTER LOOP	13+10.56	13+19.52
F10,B4,L18	GRAY ASTER LOOP	12+60.28	12+69.40
F10,B4,L19	GRAY ASTER LOOP	12+17.18	12+24.17
F10,B4,L20	GRAY ASTER LOOP	11+81.14	11+86.40
F10,B4,L21	GRAY ASTER LOOP	11+23.58	11+33.58
F10,B4,L22	GRAY ASTER LOOP	10+62.18	10+72.18
F10,B5,L1	ALPINE PHLOX LN	10+72.75	10+82.75
F10,B5,L2	ALPINE PHLOX LN	11+46.90	11+57.94
F10,B5,L3	ALPINE PHLOX LN	12+44.43	12+63.28
F10,B5,L4	ALPINE PHLOX LN	13+28.14	13+38.81
F10,B5,L5	ALPINE PHLOX LN	13+98.85	14+08.85
F10,B5,L6	ALPINE PHLOX LN	14+51.45	14+61.46
F10,B5,L7	ALPINE PHLOX LN	15+04.06	15+14.07
F10,B5,L8	ALPINE PHLOX LN	15+56.67	15+66.68
F10,B5,L9	ALPINE PHLOX LN	16+08.67	16+19.29

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B5,L10	ALPINE PHLOX LN	16+61.26	16+71.90
F10,B5,L11	ALPINE PHLOX LN	17+13.84	17+24.51
F10,B5,L12	ALPINE PHLOX LN	17+52.33	17+62.08
F10,B5,L13	ALPINE DAISY CIR	14+09.25	14+15.80
F10,B5,L14	ALPINE DAISY CIR	13+90.54	13+97.87
F10,B5,L15	ALPINE DAISY CIR	13+53.35	13+64.02
F10,B5,L16	ALPINE DAISY CIR	13+07.38	13+17.59
F10,B5,L17	ALPINE DAISY CIR	12+58.02	12+69.04
F10,B5,L18	ALPINE DAISY CIR	12+13.12	12+22.70
F10,B5,L19	ALPINE DAISY CIR	11+64.13	11+74.20
F10,B5,L20	ALPINE DAISY CIR	11+15.55	11+25.66
F10,B5,L21	ALPINE DAISY CIR	10+64.68	10+74.10
F10,B5,L22	ALPINE DAISY CIR	10+44.03	10+52.81
F10,B6,L1	COPPERMALLOW TRL	14+07.00	14+18.10
F10,B6,L2	COPPERMALLOW TRL	14+57.00	14+69.20
F10,B6,L3	COPPERMALLOW TRL	15+07.00	15+20.30
F10,B6,L4	COPPERMALLOW TRL	15+57.00	15+71.40
F10,B6,L5	COPPERMALLOW TRL	16+07.00	16+22.50
F10,B6,L6	COPPERMALLOW TRL	16+63.47	16+83.61
F10,B6,L7	CROWNVETCH CIR	15+15.26	15+25.87
F10,B6,L8	CROWNVETCH CIR	15+72.73	15+83.45
F10,B6,L9	CROWNVETCH CIR	16+29.98	16+40.73
F10,B6,L10	CROWNVETCH CIR	16+85.85	16+97.84
F10,B6,L11	CROWNVETCH CIR	17+40.13	17+47.98
F10,B6,L12	CROWNVETCH CIR	18+03.12	18+13.12
F10,B6,L13	CROWNVETCH CIR	18+70.12	18+80.12



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 BLOW OFF	---	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 WITH MANHOLE
⊕	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE
		---	PWSD EASEMENT
		---	TYP. EASEMENT

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POINT OF VERTICAL CURVE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CB0	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	ROP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
L	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ DATE _____
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)

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

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

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

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS

TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

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.

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.



10333 E. Dry Creek Rd
Suite 240
Englewood, CO 80112
Tel: 720.482.952
www.cvlinc.net
westwoodpt.com

HR 935 LLC
7352 South Alton Way
CENTENNIAL, CO 80112

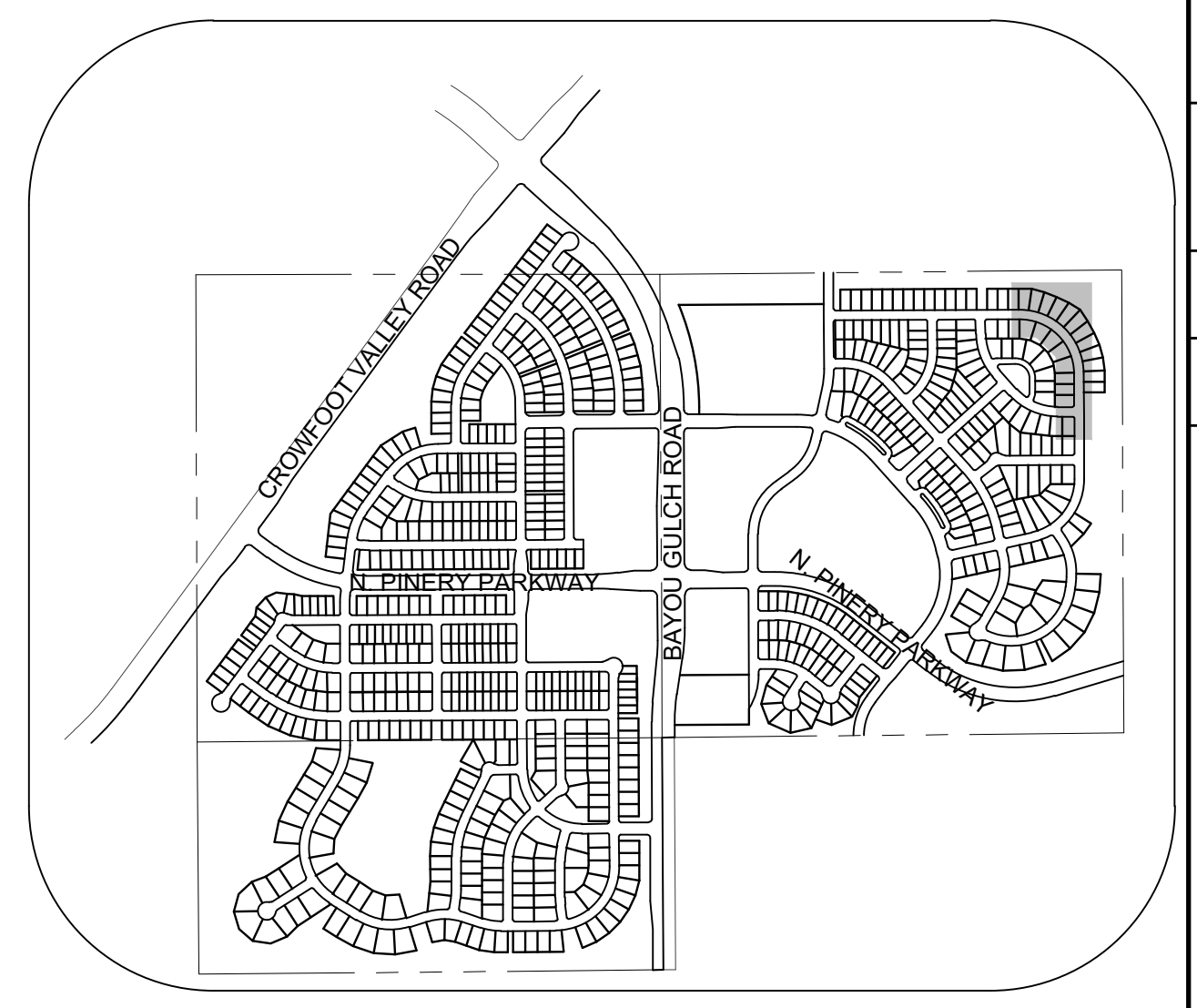
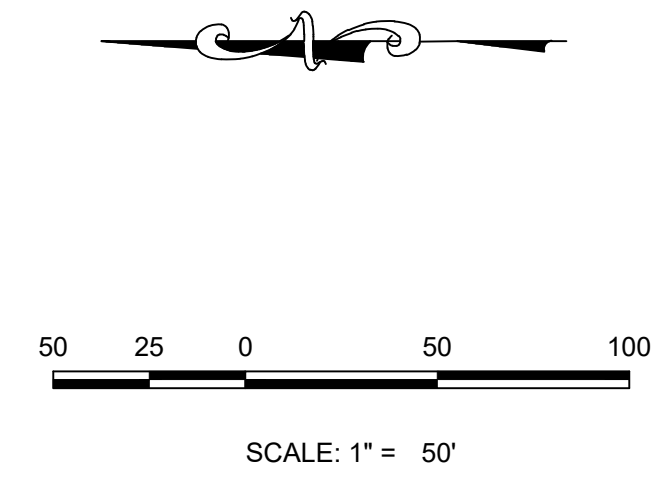
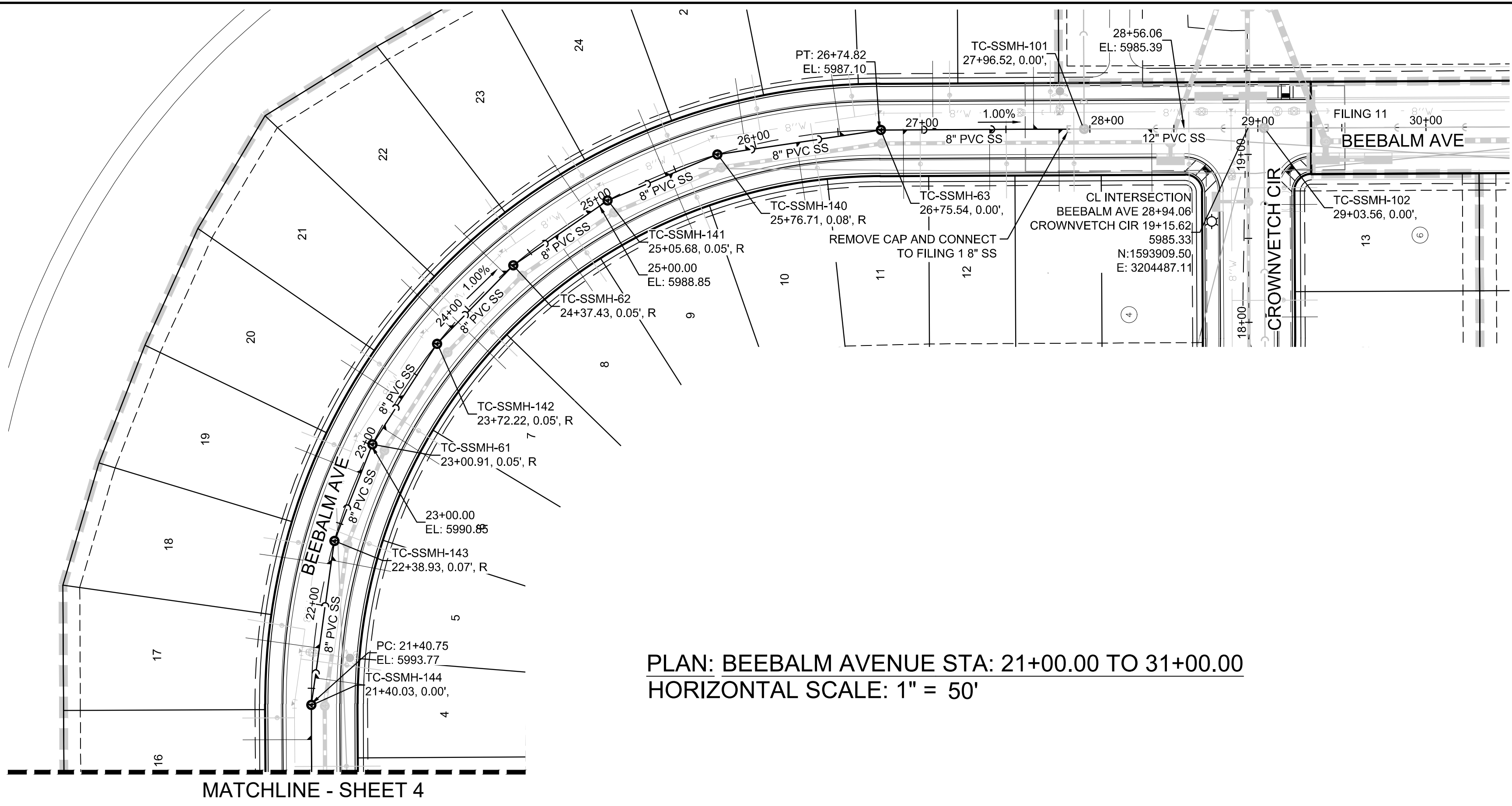
TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: _____
DRAWN BY: JLR
CHECKED BY: JLU
DATE: SEPTEMBER 2017

FILE NO: 8130283701

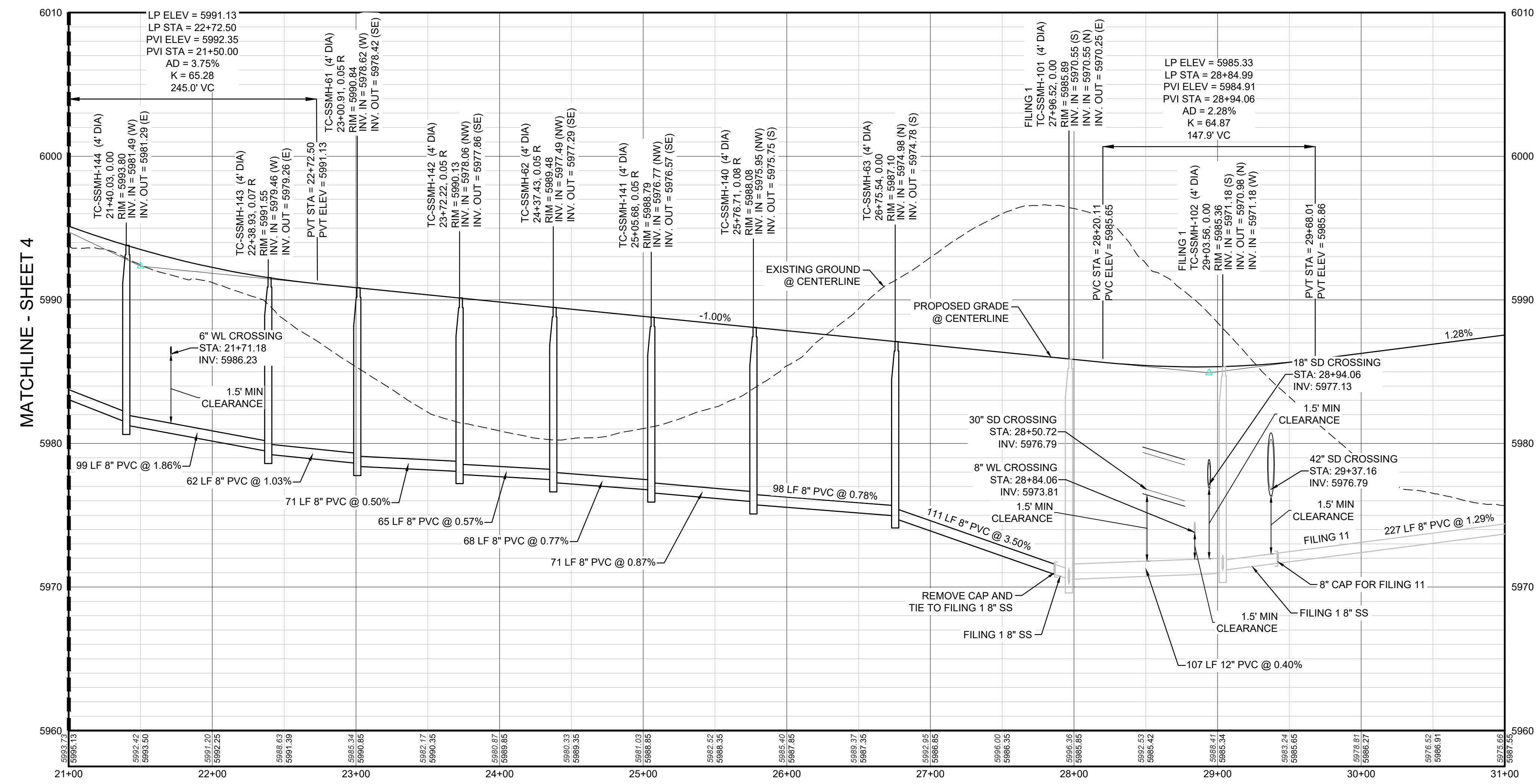
SHEET NUMBER: 3

Revisions: _____
No. _____
Date _____
Init. _____
Date _____



KEYMAP
N.T.S.
LEGEND

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



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
CBD	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
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FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
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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

1. SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.

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

PROFILE: BEEBALM AVENUE STA: 21+00.00 TO 31+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

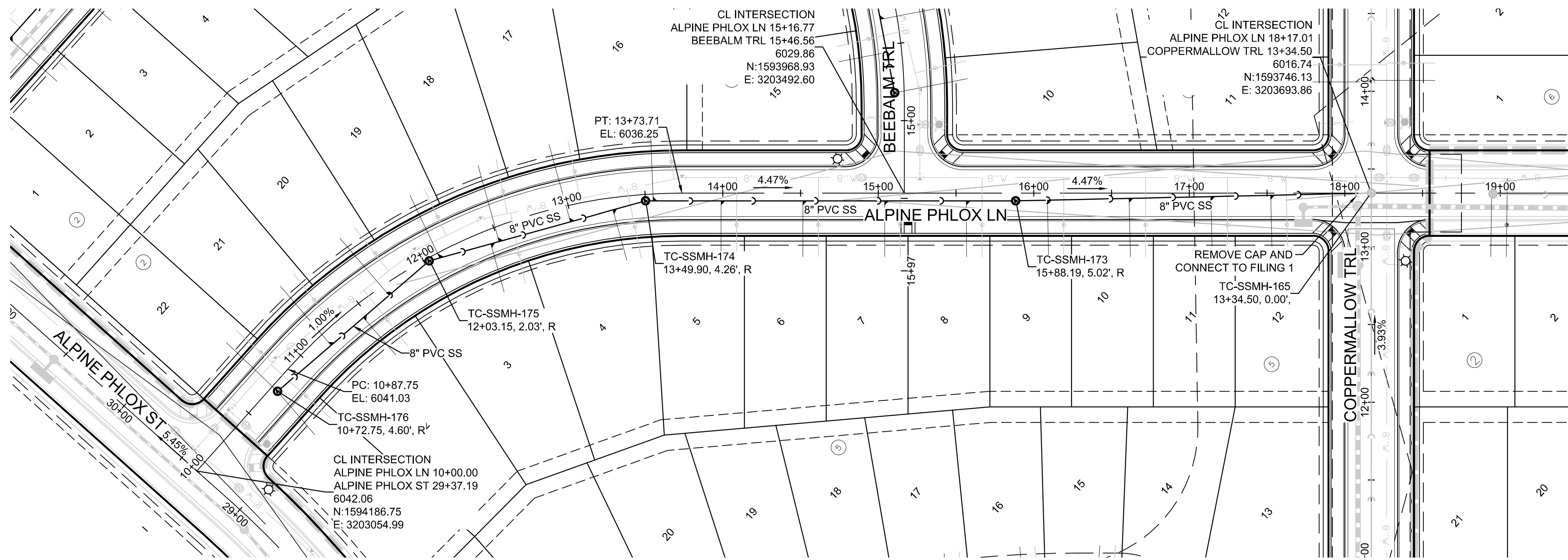
BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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

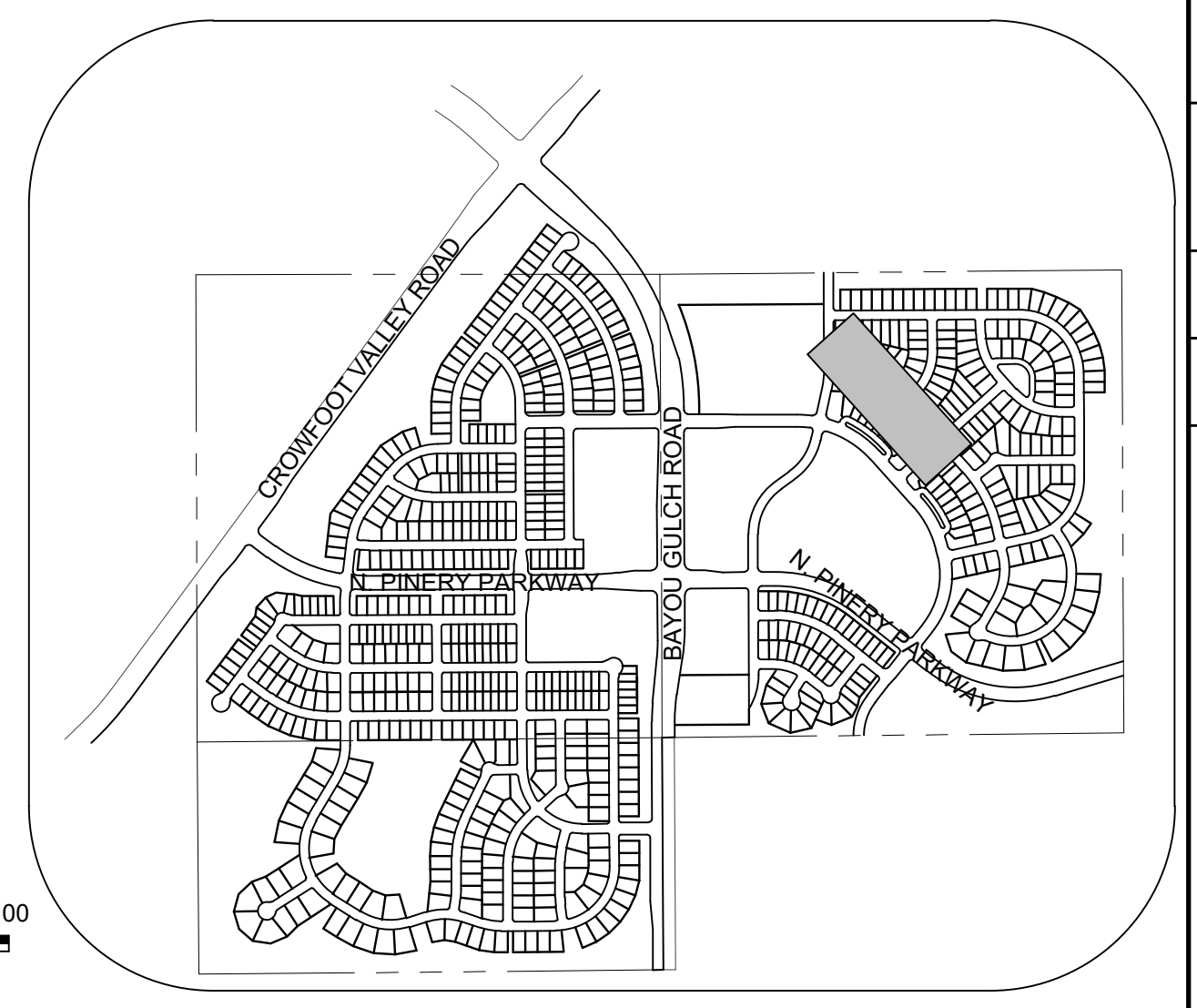
PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

SHEET NUMBER	DRAWN BY: JLR	CHECKED BY: JLU	DATE: SEPTEMBER 2017	SCALE:	AS SHOWN	FILE NO:	8130283701
				TRAILS AT CROWFOOT	FILING 10 CONSTRUCTION DRAWINGS	SANITARY SEWER PLAN AND PROFILE	BEEBALM AVENUE
5	10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com			 HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112			
	Revisions	No.	Date	Int.	Appr.	Date	



PLAN: ALPINE PHLOX LANE STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



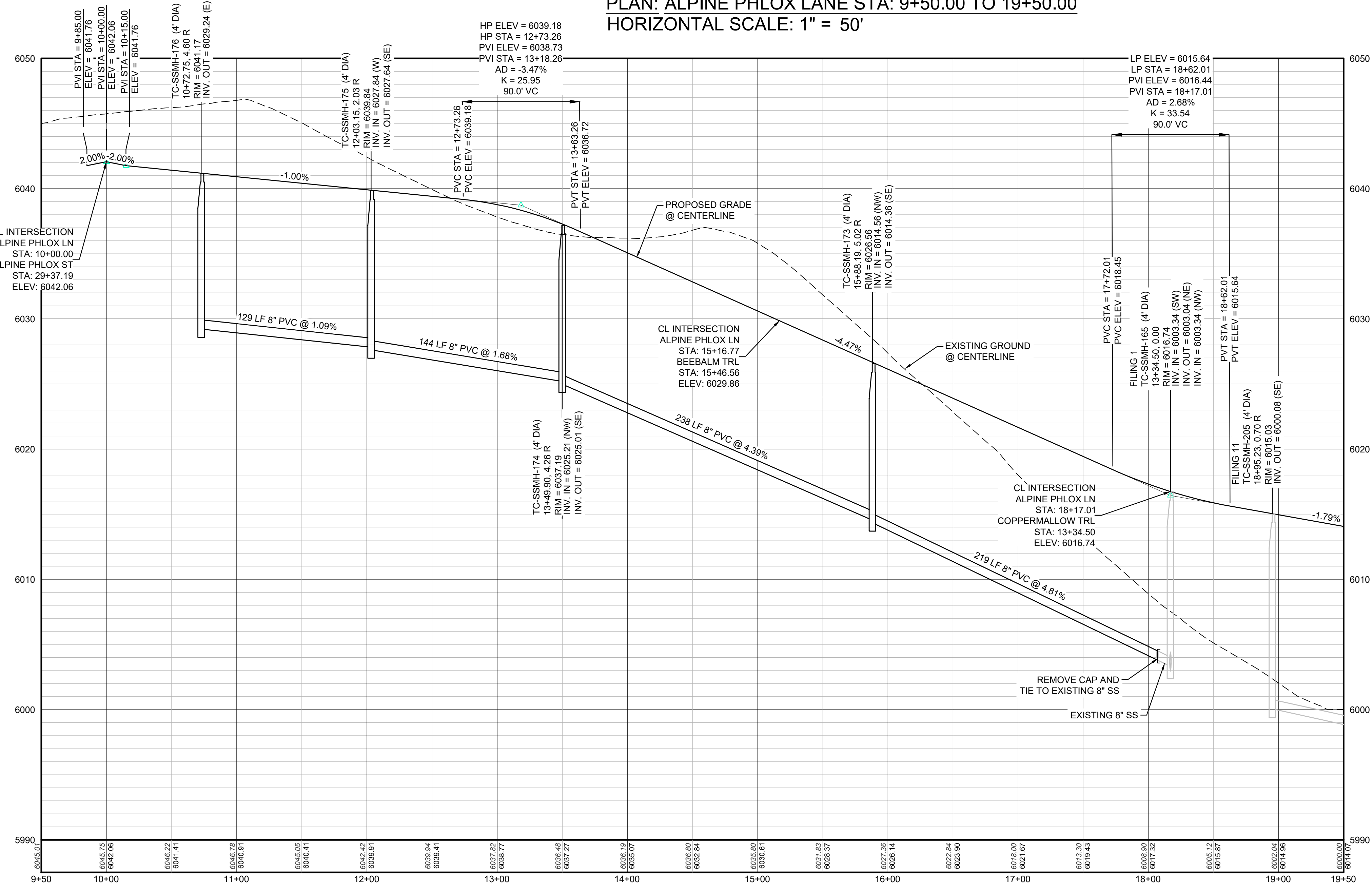
KEYMAP
N.T.S.
LEGEND

⊙	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊕	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⌈	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊗	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊕	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
⊕	PROPOSED WL FITTING WITH THRUST BLOCK	---	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	---	PROPOSED 5' CONTOUR
⊕	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 1' CONTOUR
⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊕	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
10.00	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
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CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	ROP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.



PROFILE: ALPINE PHLOX LN STA: 9+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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DRAWN BY:	JLR	SCALE:	AS SHOWN
	JJU	FILE NO:	8130283701
CHECKED BY:	JJU	DATE:	SEPTEMBER 2017
DATE:	SEPTEMBER 2017		
SHEET NUMBER	6		
PROJECT:	TRAILS AT CROWFOOT		
DRAWING:	FILING 10 CONSTRUCTION DRAWINGS		
	SANITARY SEWER PLAN AND PROFILE		
	ALPINE PHLOX LANE		
NO.		REVISIONS	
DATE			
INIT			
APPR			
DATE			

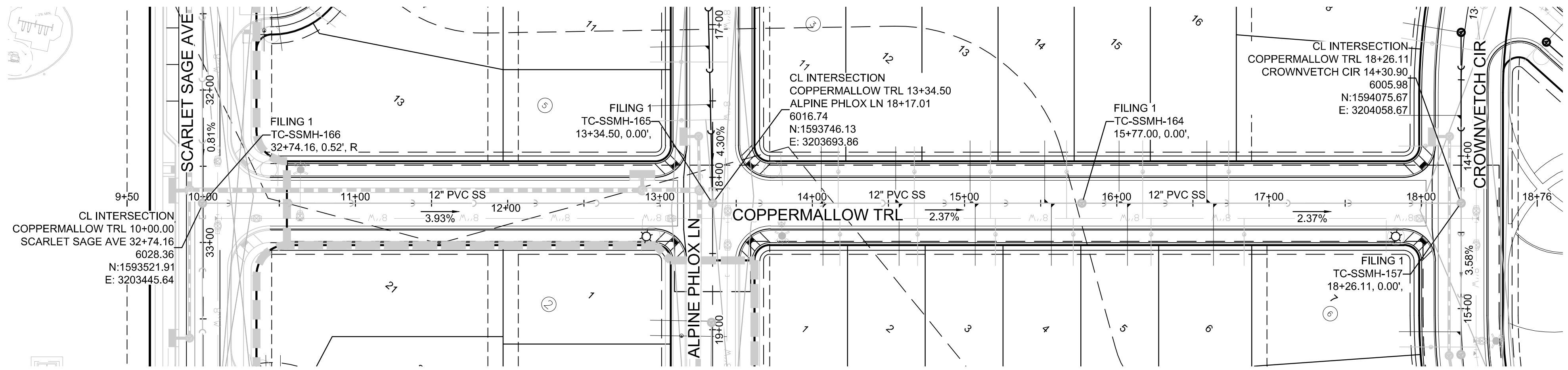
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7353 South Alton Way
CENTENNIAL, CO 80112

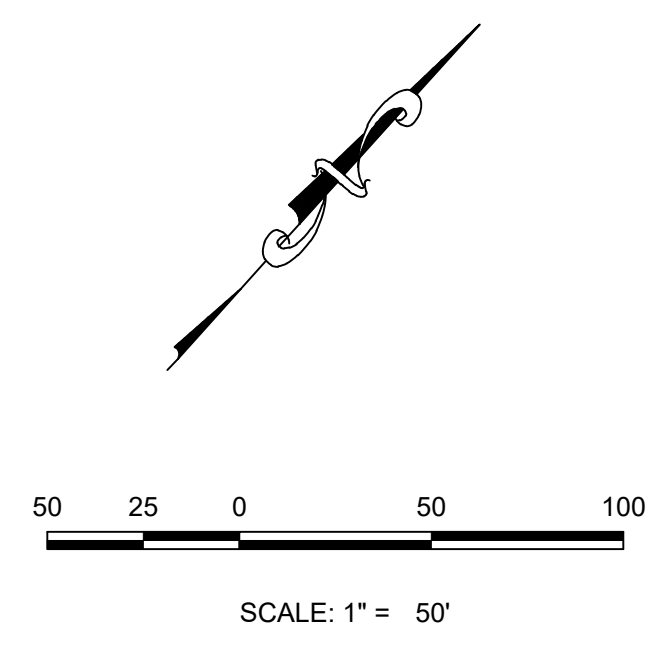
TRAILS AT CROWFOOT
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SANITARY SEWER PLAN AND PROFILE
ALPINE PHLOX LANE

SCALE: AS SHOWN
FILE NO: 8130283701
DATE: SEPTEMBER 2017

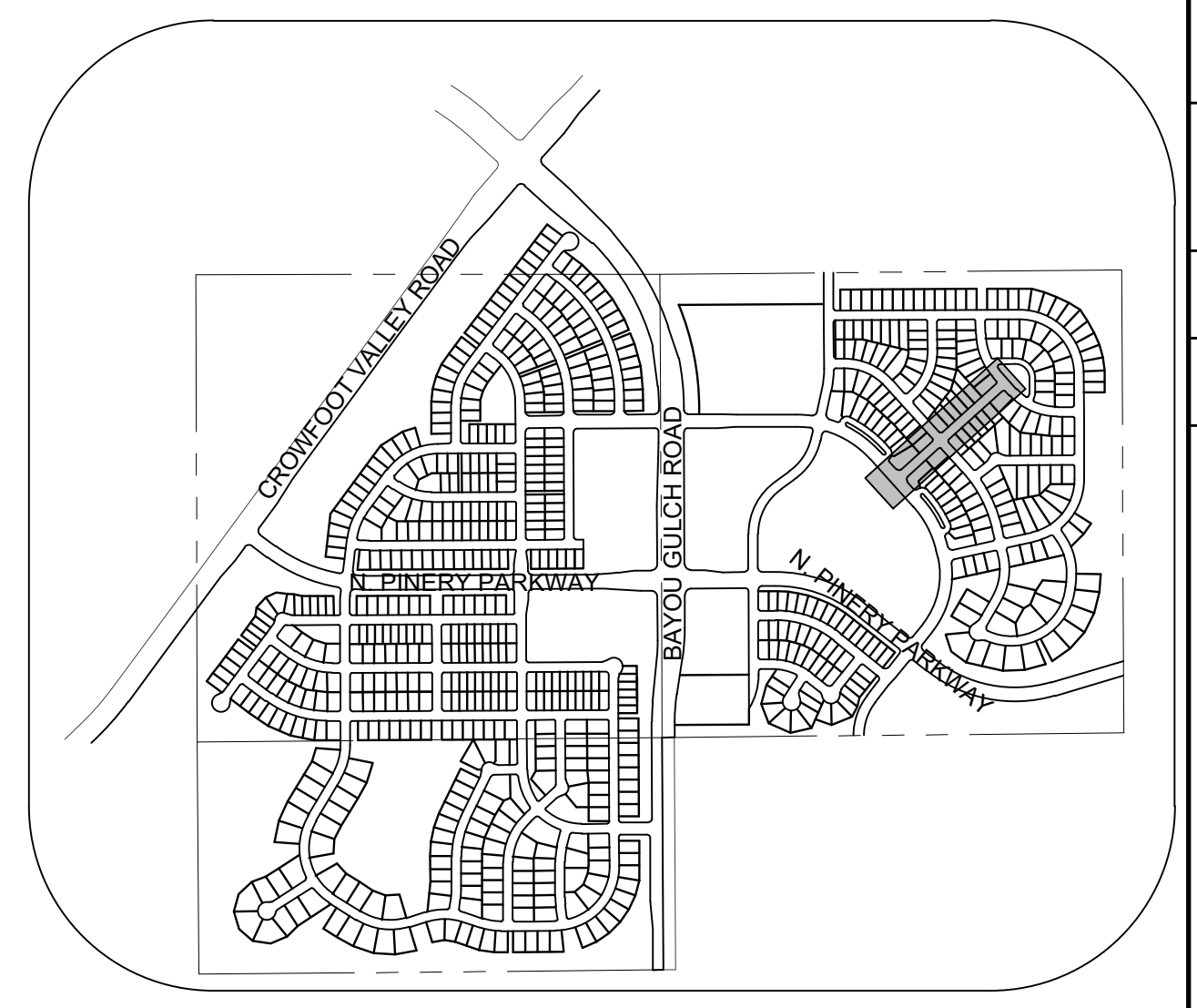
SHEET NUMBER: 6



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



NOTE:
1. SANITARY MAIN INSTALLED WITH FILING 1,
SANITARY SERVICES INSTALLED WITH FILING 10



KEYMAP
N.T.S.

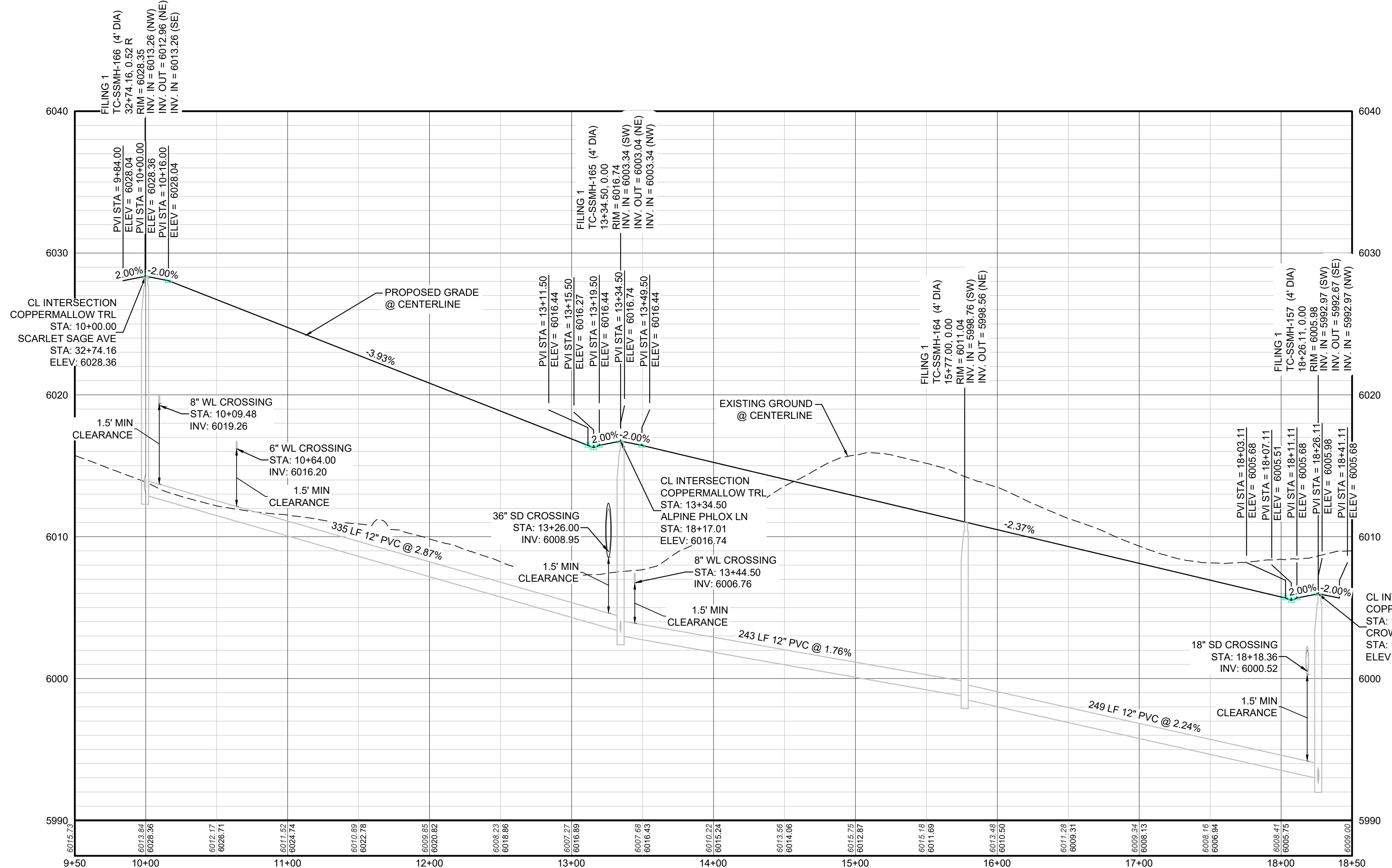
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
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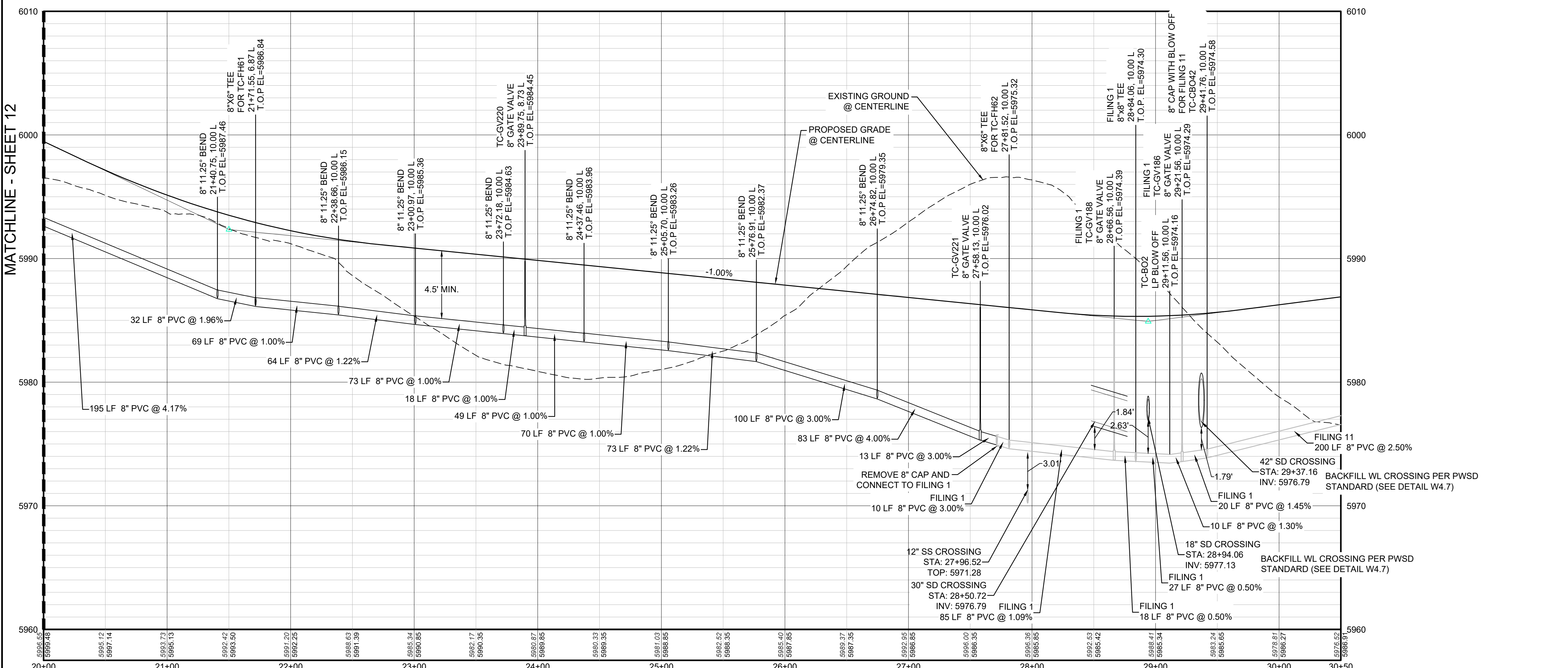
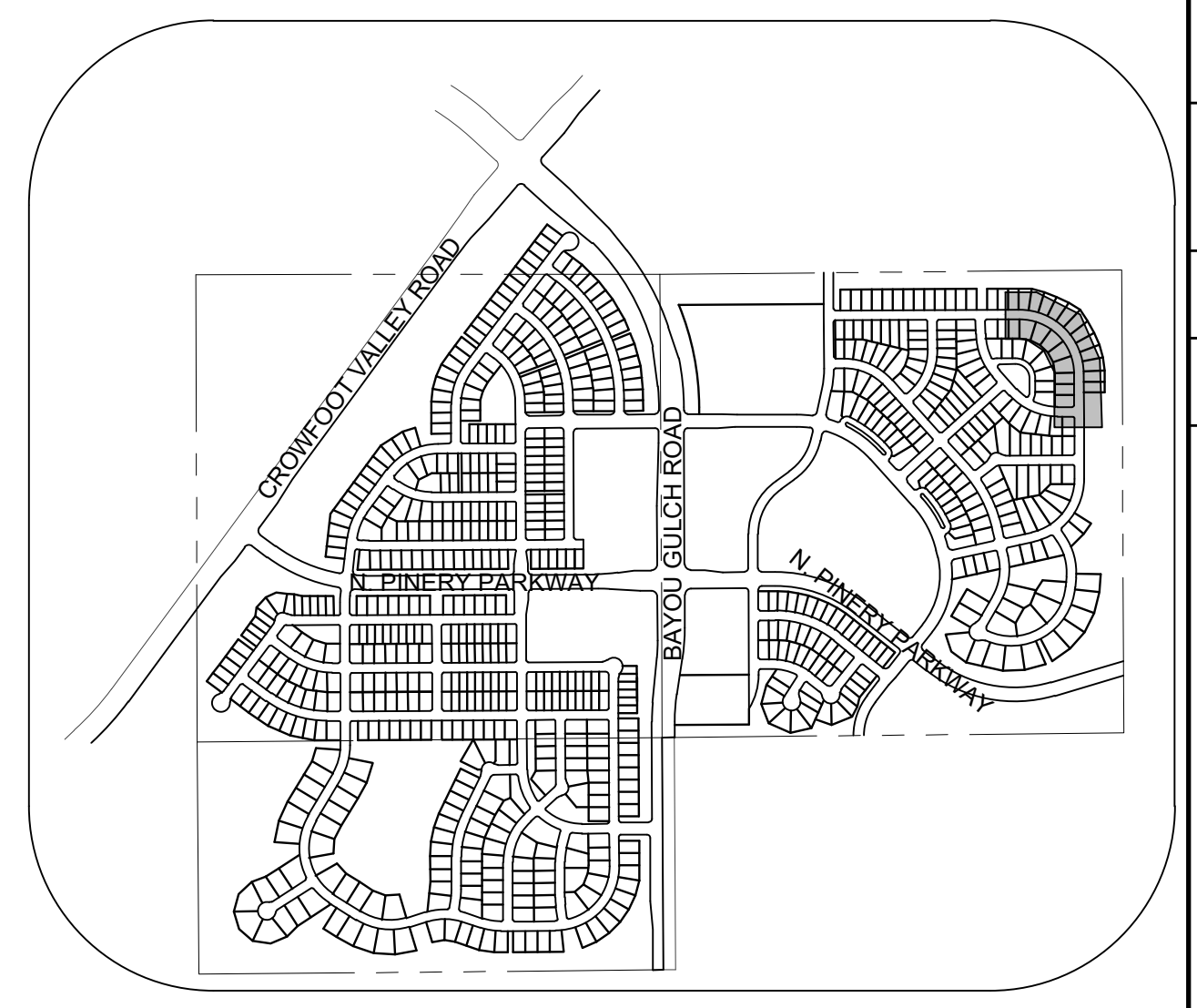
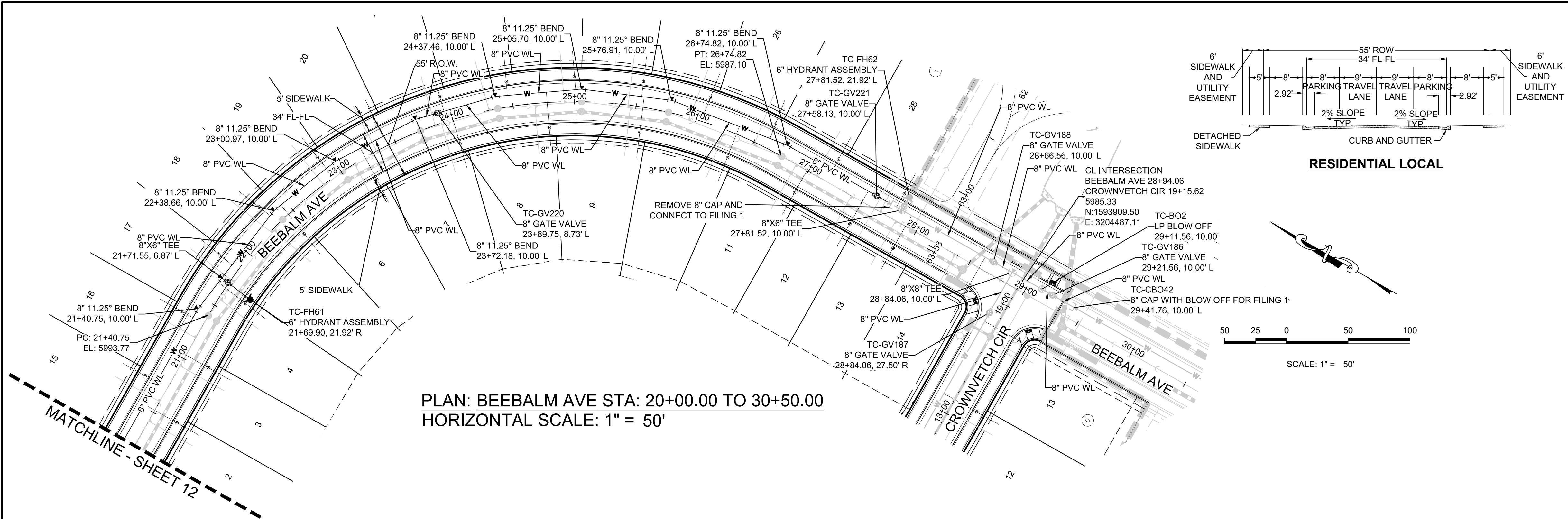
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PREPARED UNDER THE SUPERVISION OF

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10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE COPPERMALLOW TRAIL	SCALE: AS SHOWN	FILE NO: 8130283701	DRAWN BY: JLR	CHECKED BY: JLU	DATE: SEPTEMBER 2017	SHEET NUMBER 8	Revisions	No.	Date	Init.	Appr.	Date
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LEGEND

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SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.

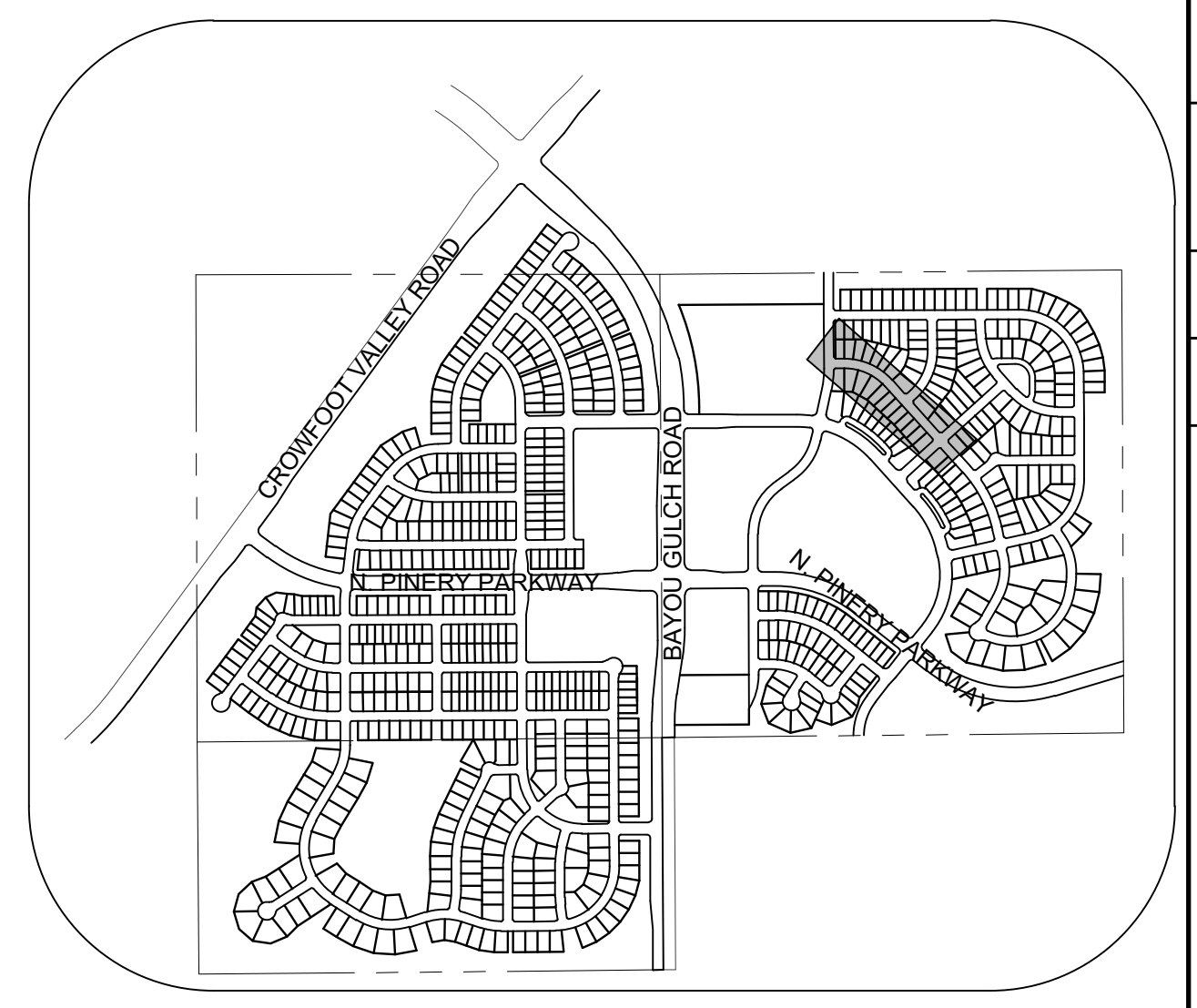
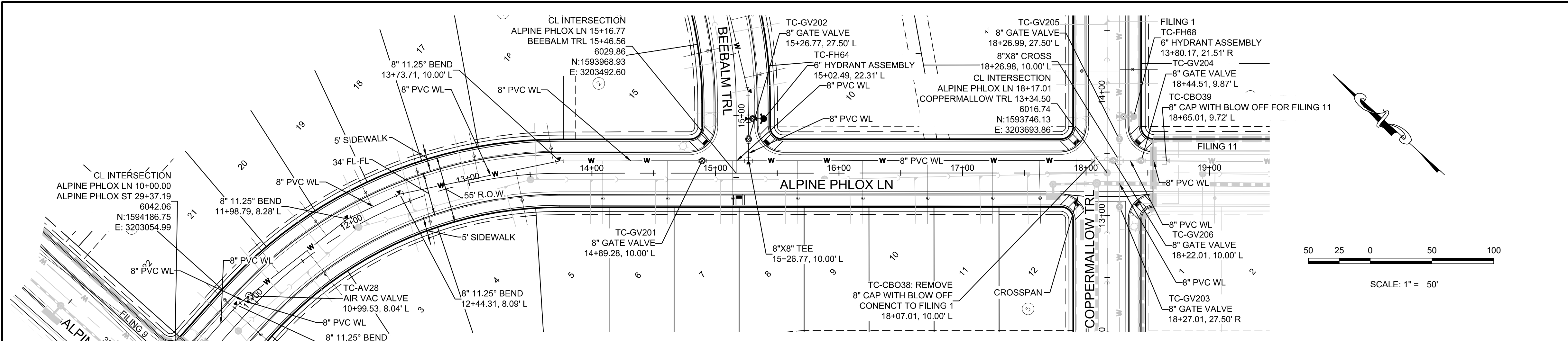
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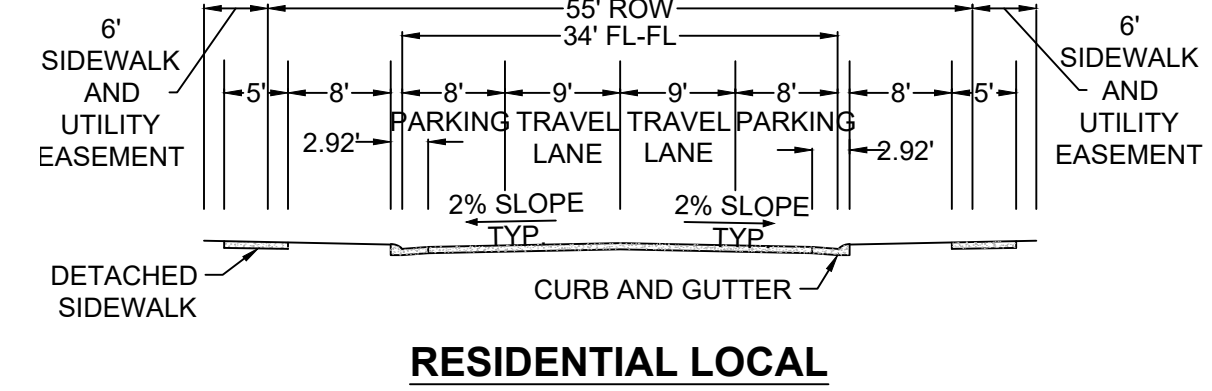
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PREPARED UNDER THE SUPERVISION OF
BRIAN P. WILSON
COLORADO P.E. 0050067

DRAWN BY:	RHR	CHECKED BY:	JU	DATE:	SEPTEMBER 2017
	AS SHOWN		JU		
SHEET NUMBER	13	SCALE:	AS SHOWN	FILE NO:	8130283701
TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE BEEBALM AVENUE	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com	Revisions	No.	Date
			Appr.	Int.	Date



PLAN: ALPINE PHLOX LN STA: 9+50.00 TO 19+50.00
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RESIDENTIAL LOCAL

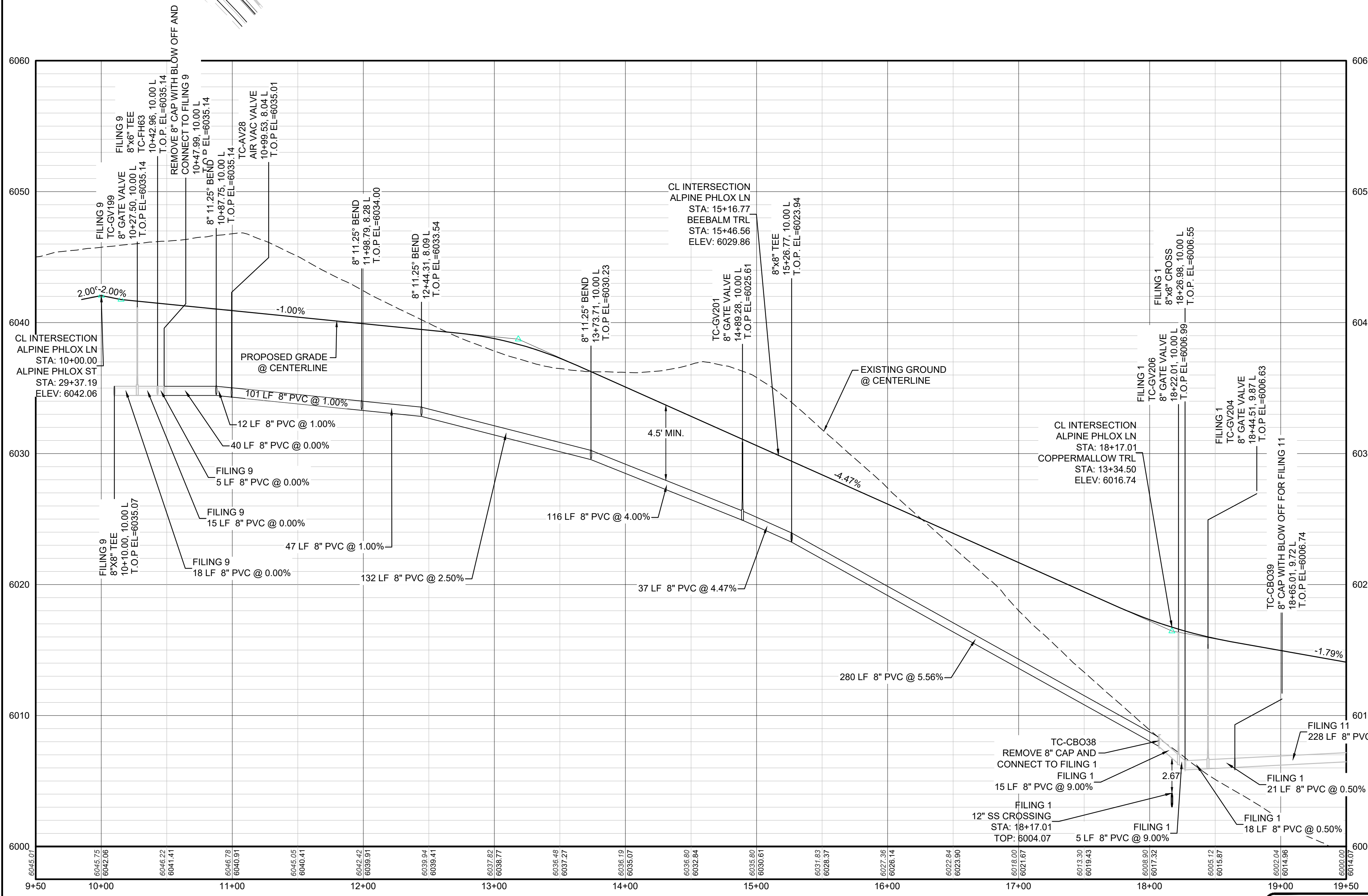
KEYMAP
N.T.S.
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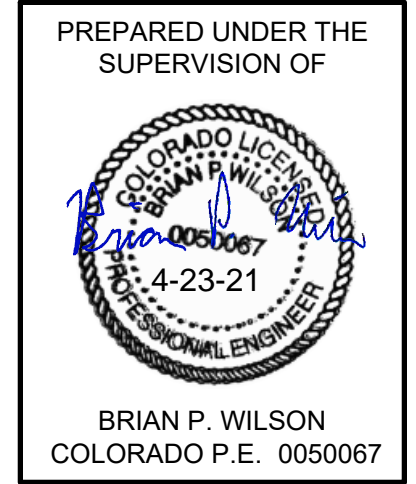
SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.



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HR 935 LLC 7352 South Alton Way CENTENNIAL, CO 80112

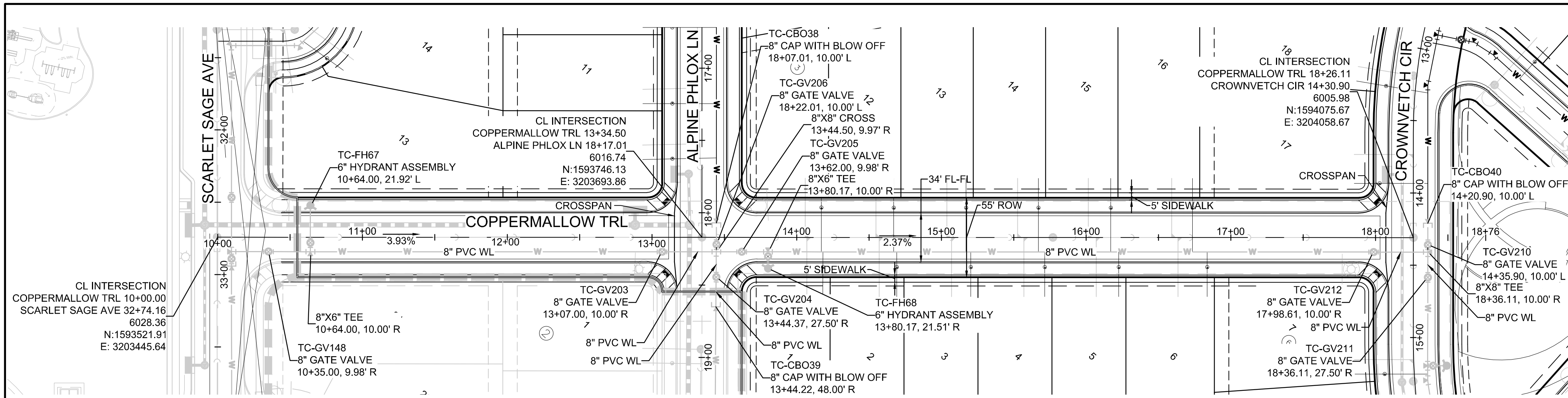
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ALPINE PHLOX LANE

SCALE: AS SHOWN
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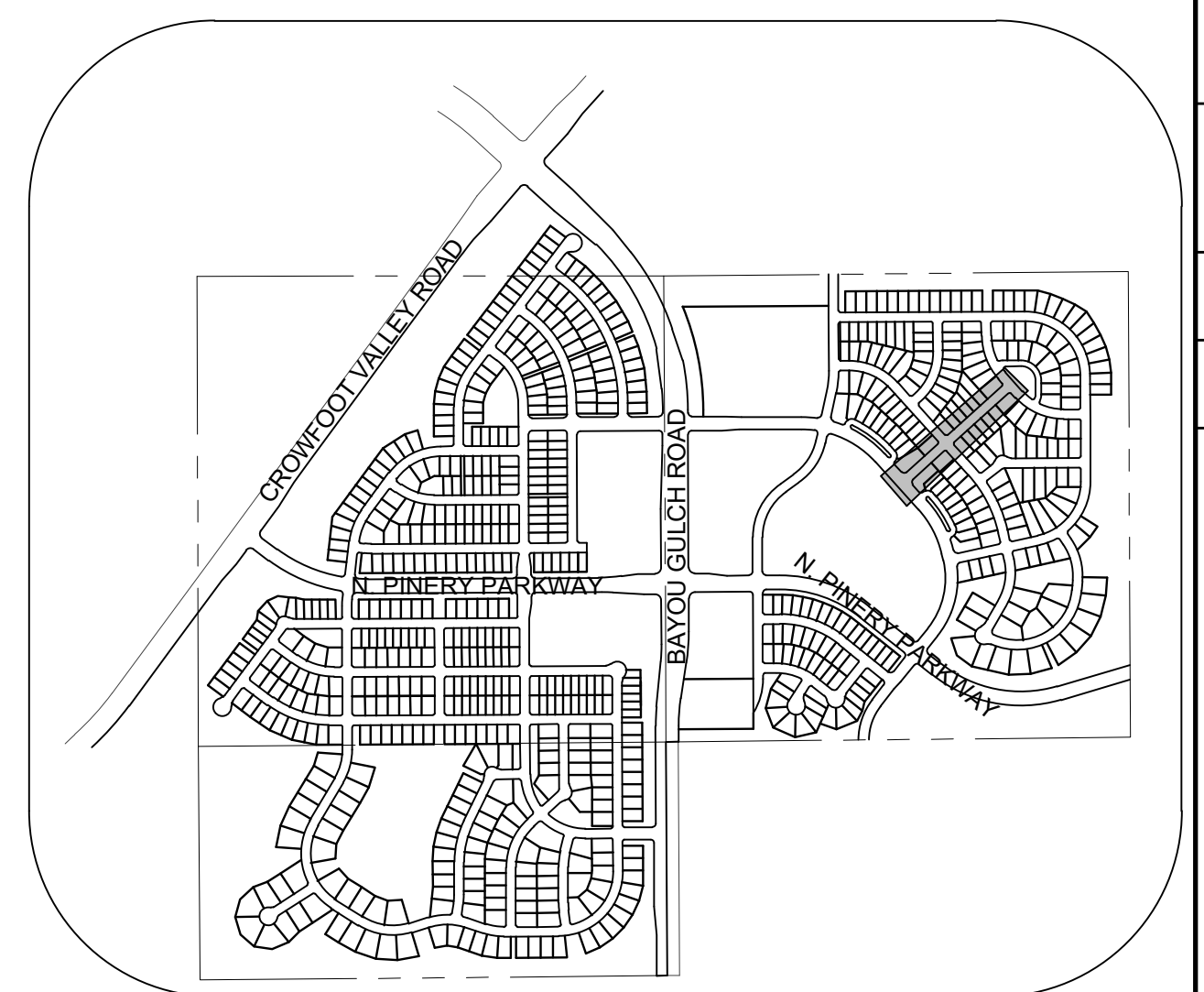
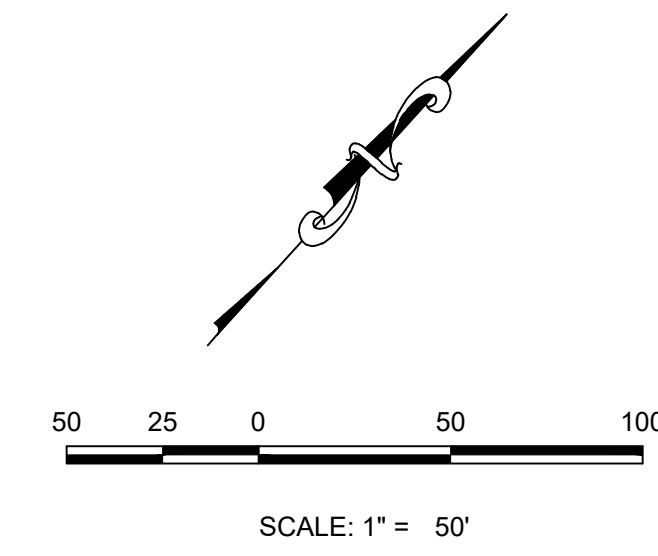
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DATE: SEPTEMBER 2017

SHEET NUMBER 14

Date
Appr.
Init.
Date
Revisions
No.

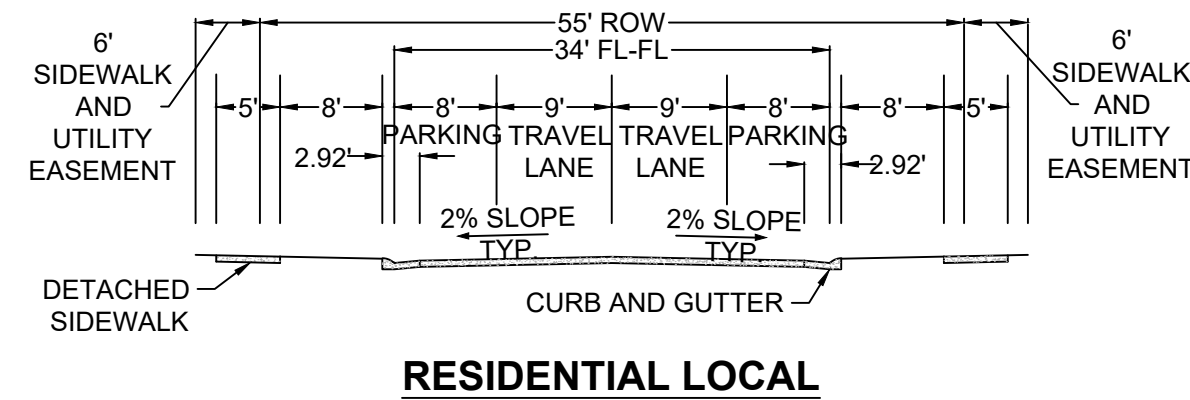


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KEYMAP
N.T.S.
LEGEND

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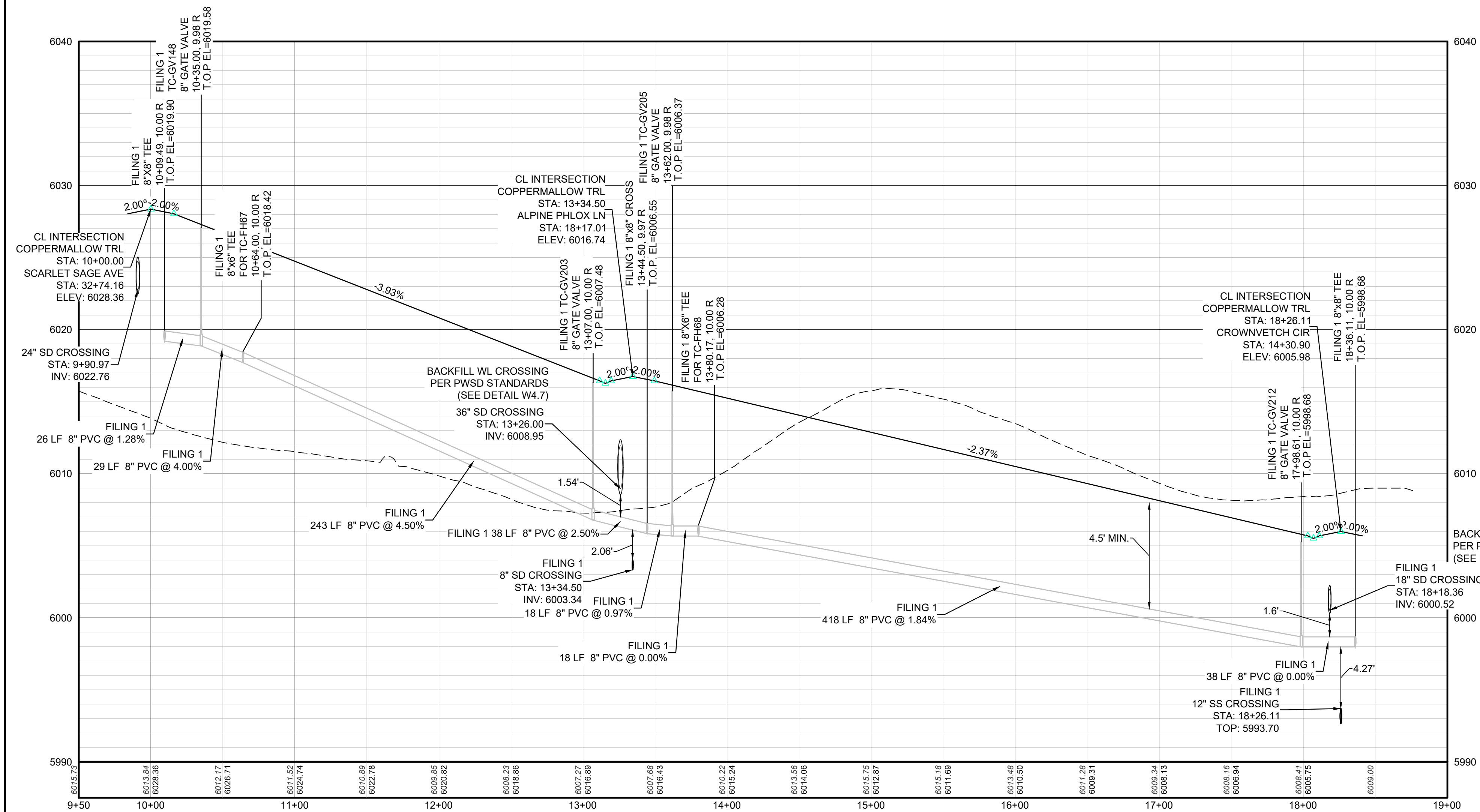


RESIDENTIAL LOCAL

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EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION



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

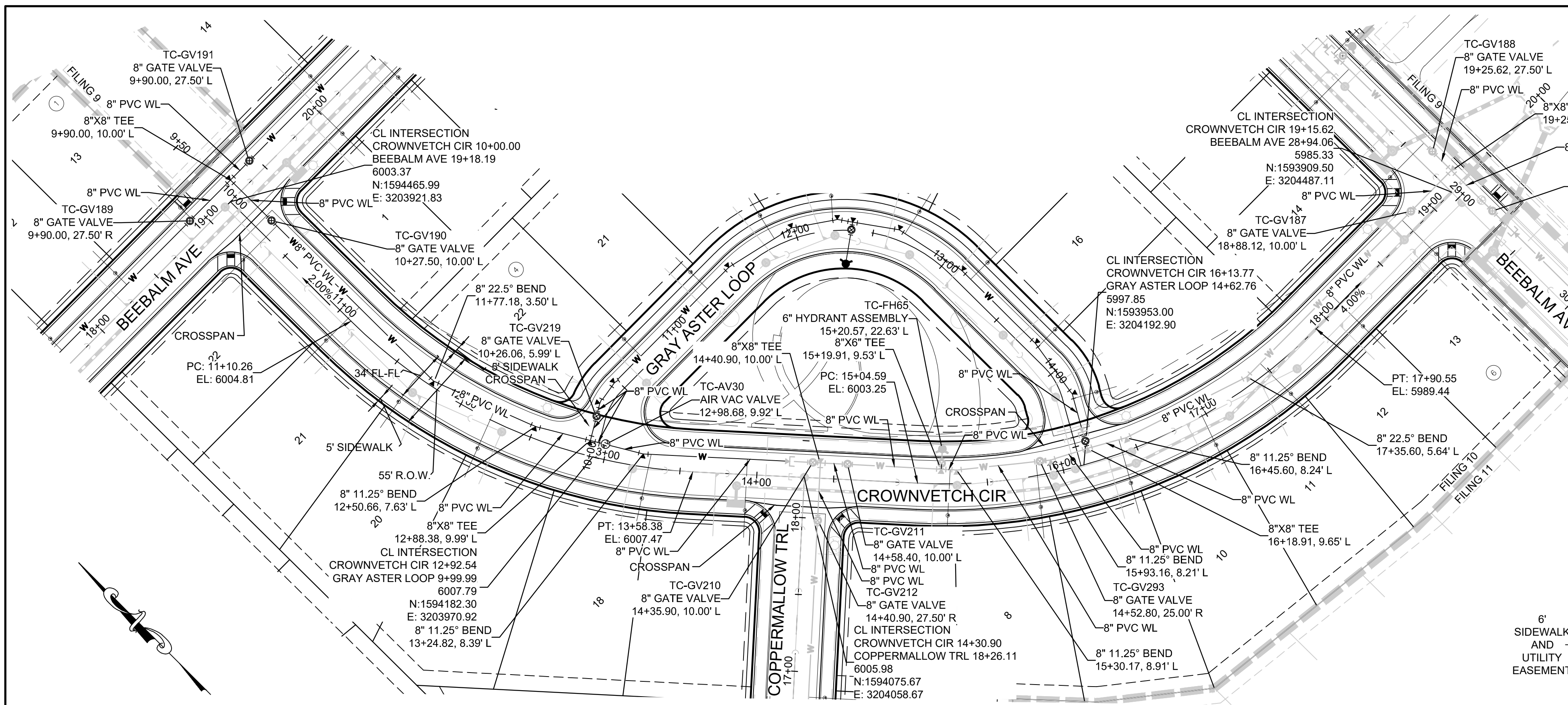
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BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870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

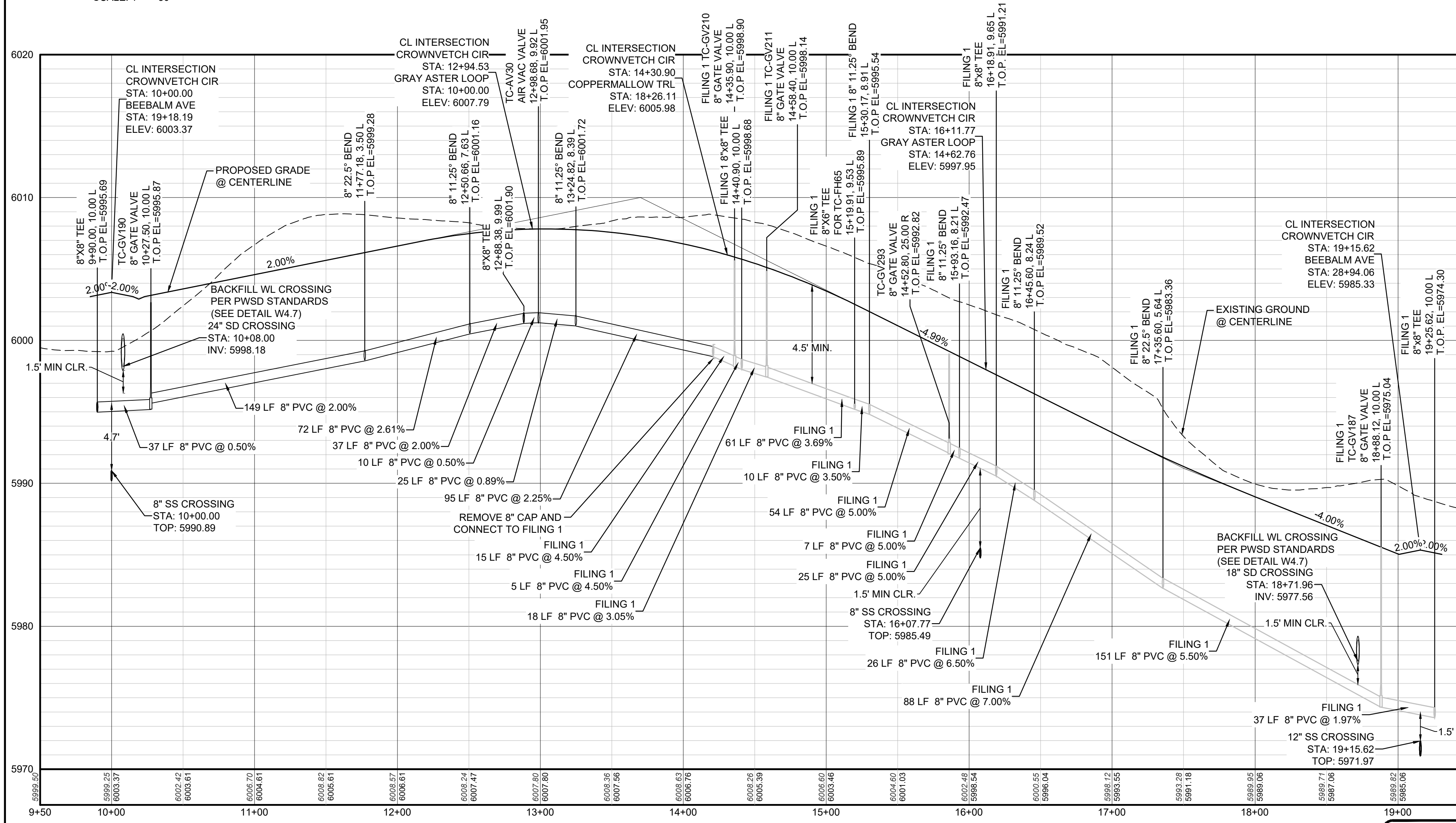
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06"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

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

10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE COPPERMALLOW TRAIL	SCALE: AS SHOWN FILE NO: 8130283701	DRAWN BY: RRR CHECKED BY: JUU DATE: SEPTEMBER 2017	SHEET NUMBER 16
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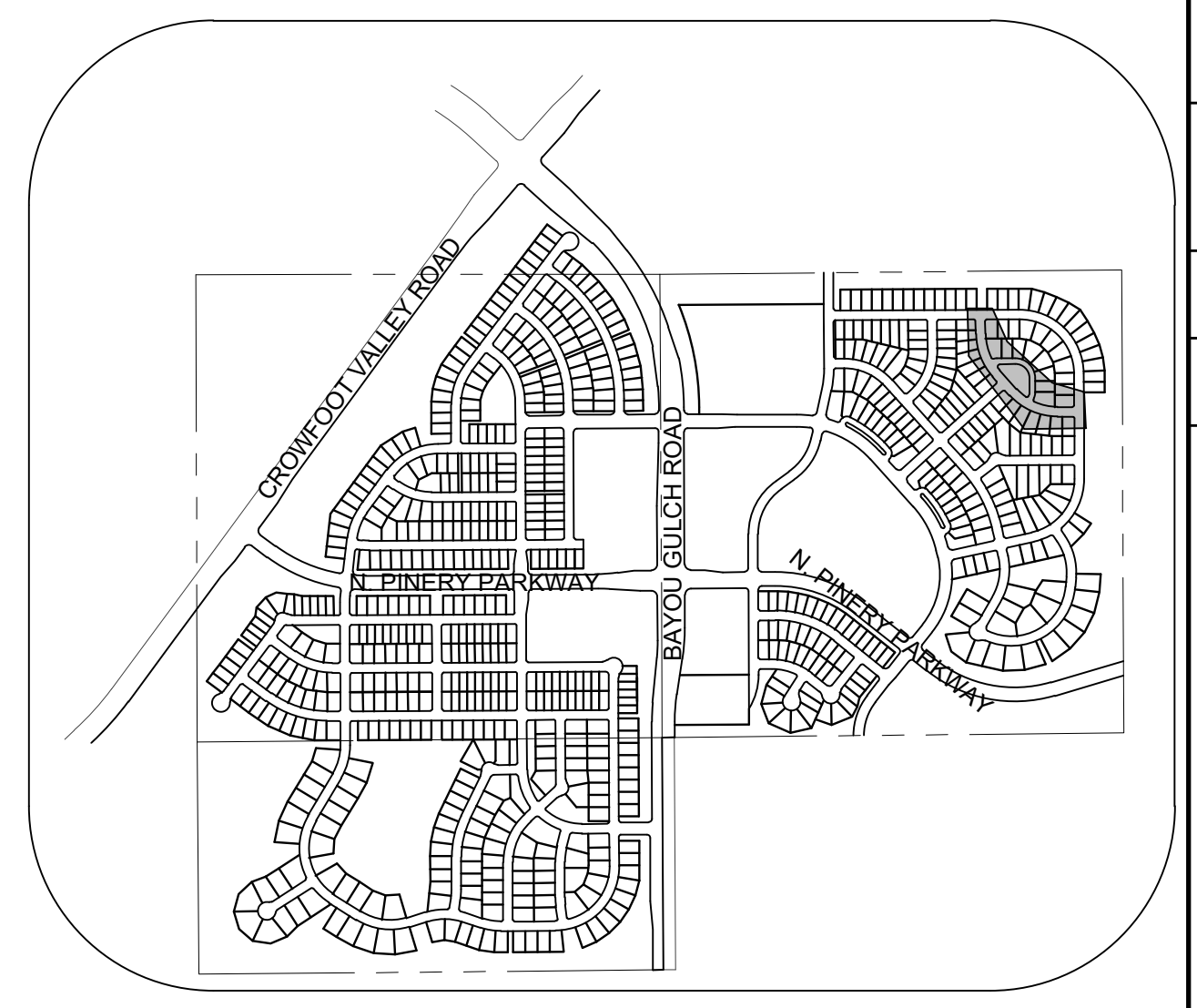
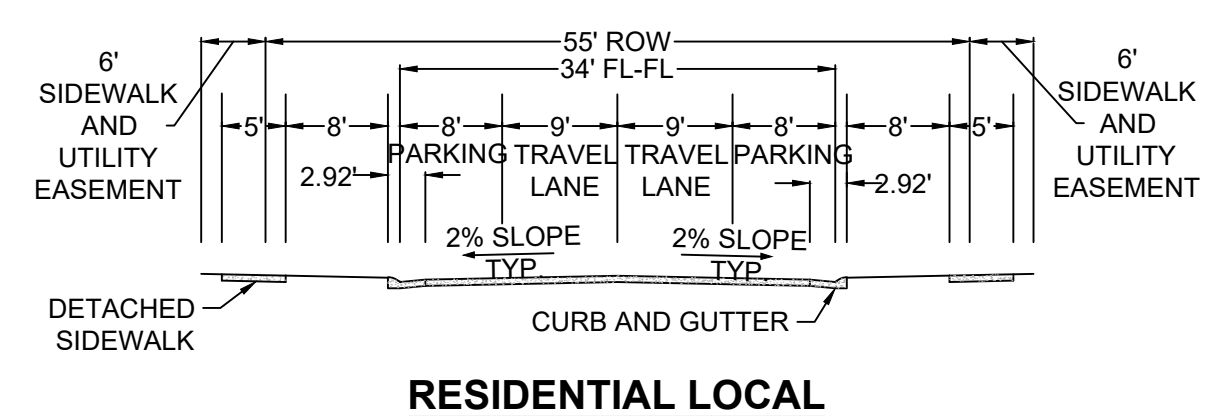


PLAN: CROWNVETCH CIR STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: CROWNVETCH CIR STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

NOTE:
1. WATERLINE INSTALLED WITH FILING 1 WATER SERVICES TO BE INSTALLED WITH FILING 10
2. SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.



KEYMAP
N.T.S.
LEGEND

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

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVT	PT. OF VERTICAL INTERSECTION
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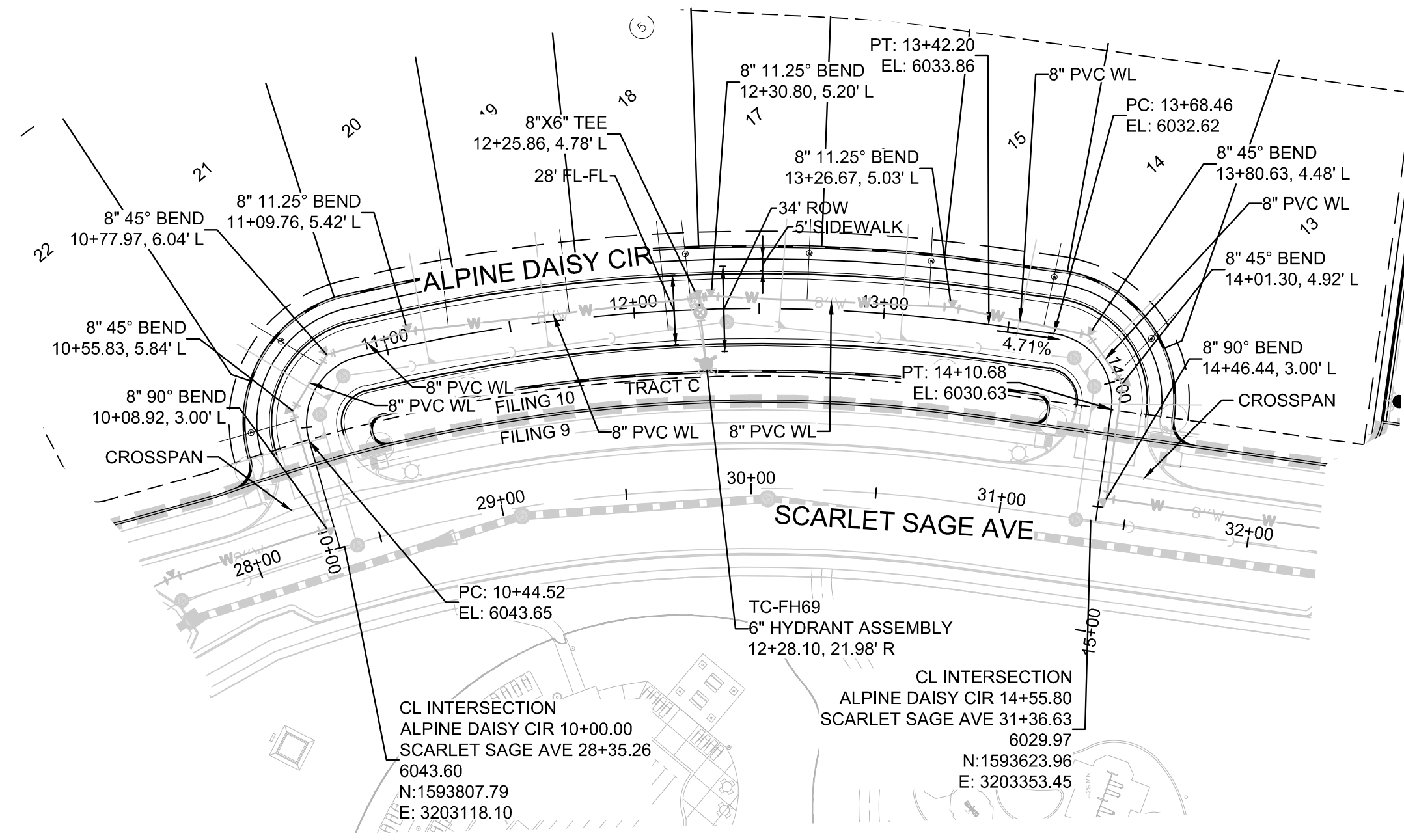
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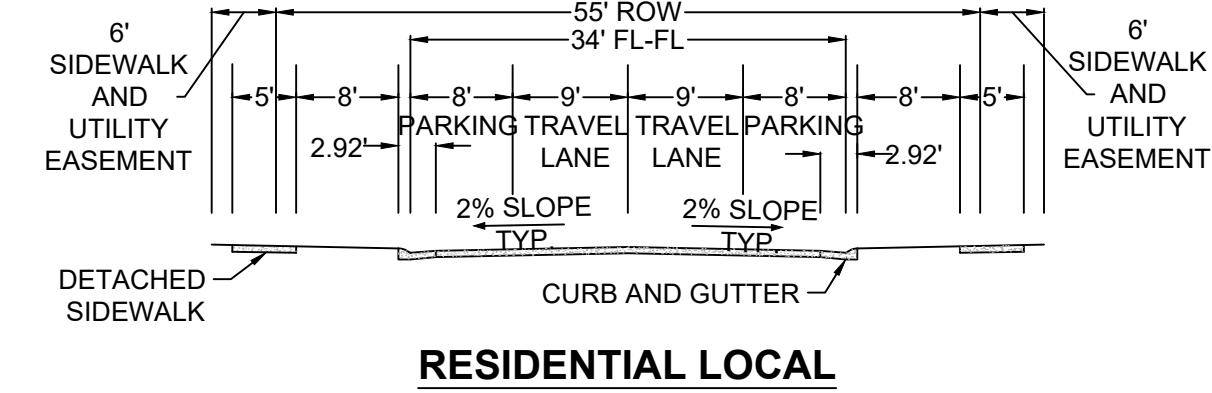
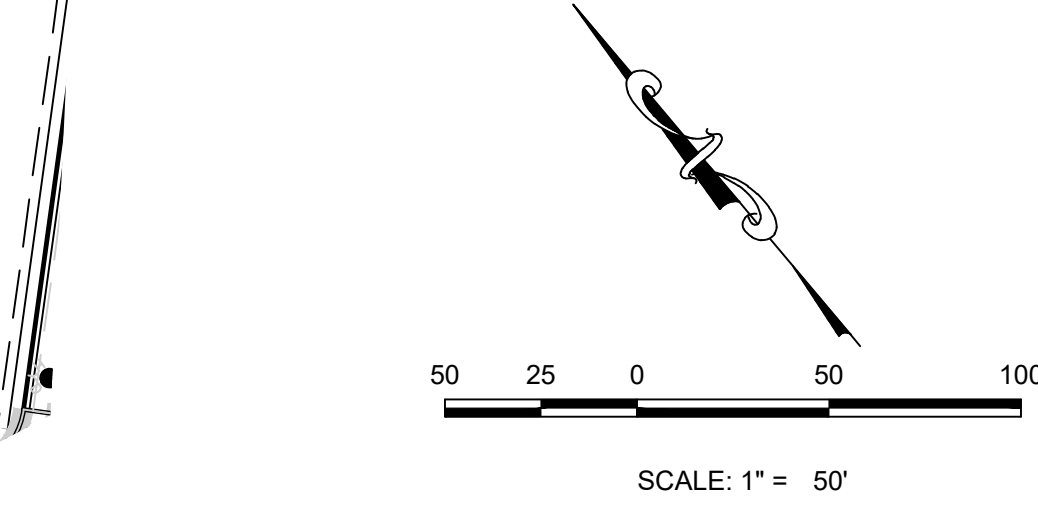
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PREPARED UNDER THE SUPERVISION OF
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COLORADO P.E. 0050067

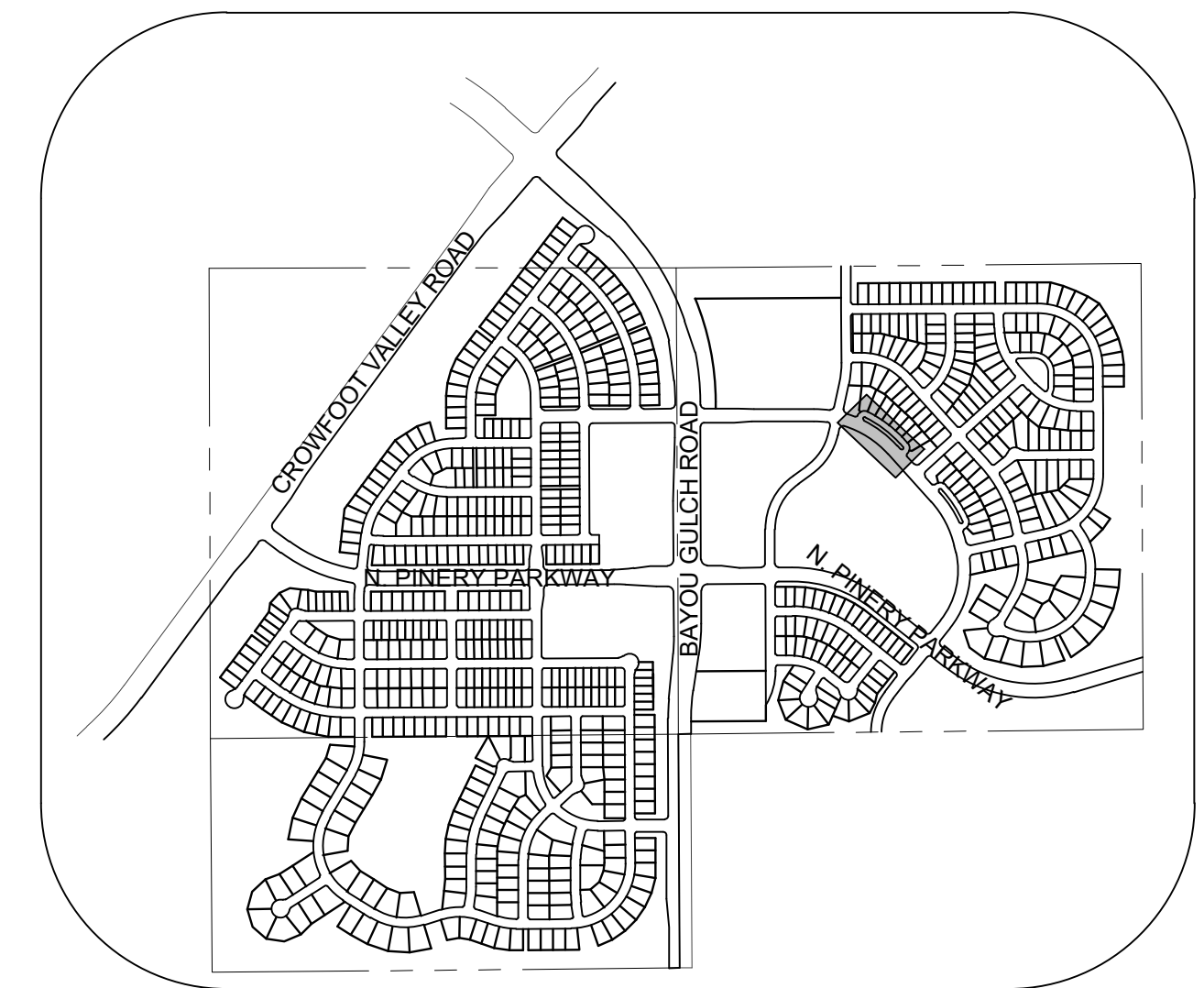
10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjst.com	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE CROWNVETCH CIR	SCALE: AS SHOWN FILE NO: 8130283701	DRAWN BY: RHR	CHECKED BY: JU	DATE: SEPTEMBER 2017	SHEET NUMBER 17
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PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL



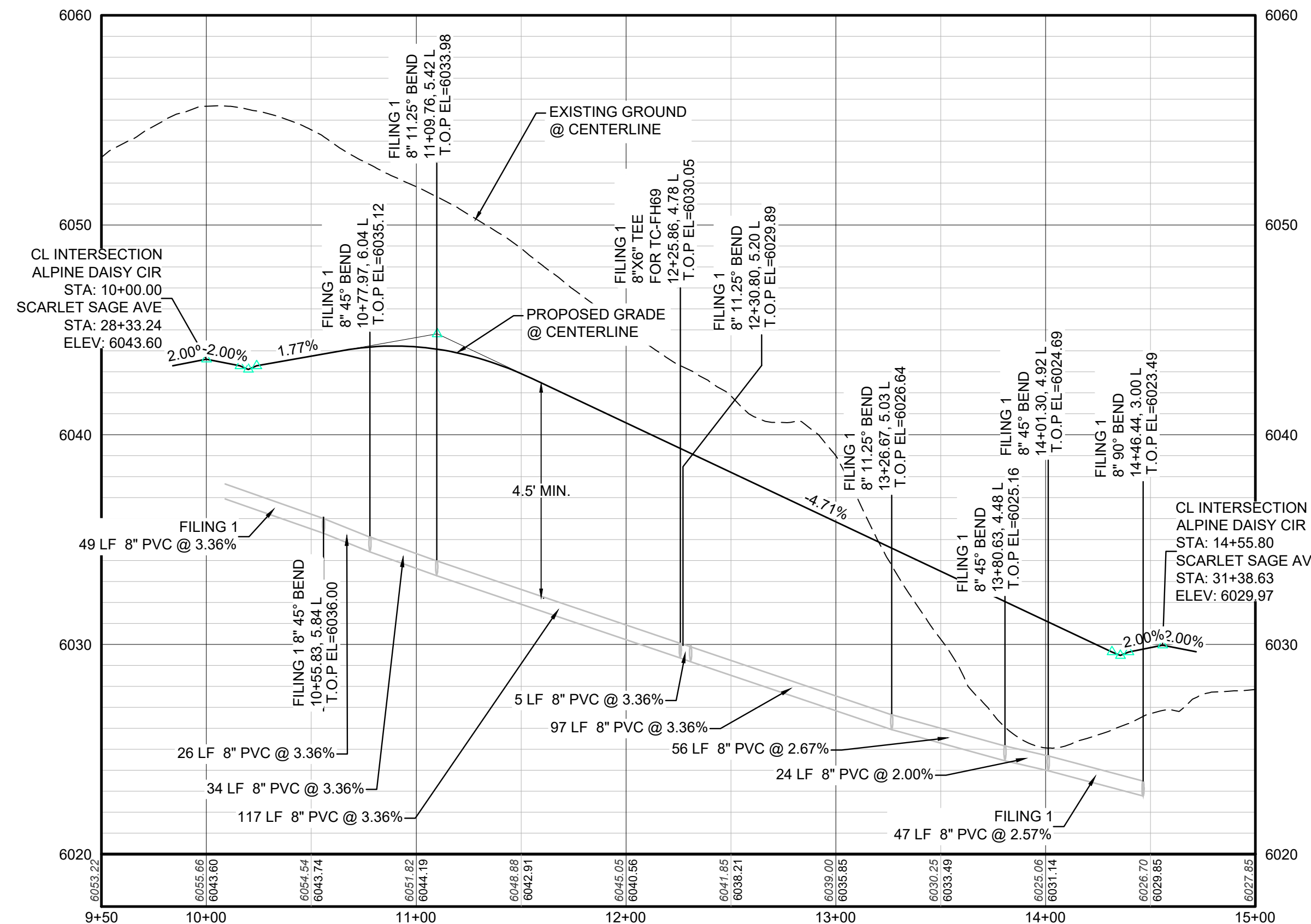
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⊞	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊞	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊞	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊞	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊞	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊞	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊞	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
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1. SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.



PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL: 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.

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

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SHEET NUMBER 19				
PROJECTS: HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112				
10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com				
a Westwood team				
TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE ALPINE DAISY CIR				

INSPECTION POLICY:

- ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
- 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.
- 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.
- 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.
- ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
- LOTS WITHOUT BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
- CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

SEWER

- ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
- NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3".
- MINIMUM GRADE SHALL BE 2%.
- INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
- 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.
- STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
- SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
- ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"W" FOR WATER SERVICES

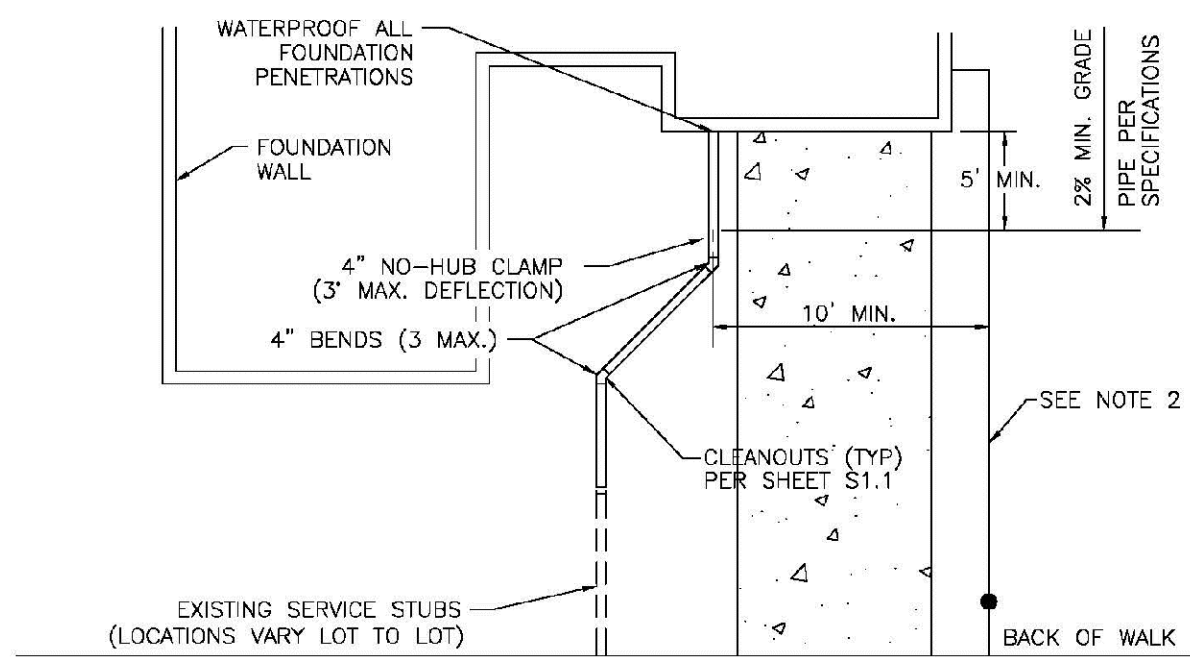
PARKER WATER & SANITATION DISTRICT
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES

SCALE: NONE DATE: 2/96

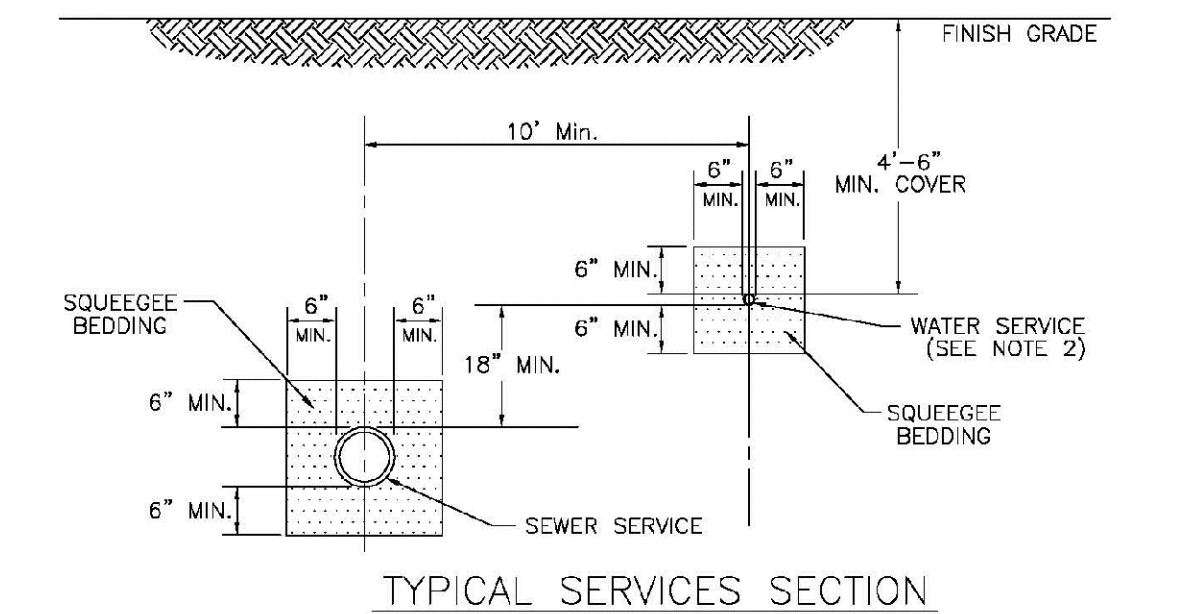
APPROVED: PVR 01/02 10/16
01/08 01/16
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SHEET S1.1



TYPICAL SERVICES PLAN VIEW



TYPICAL SERVICES SECTION

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

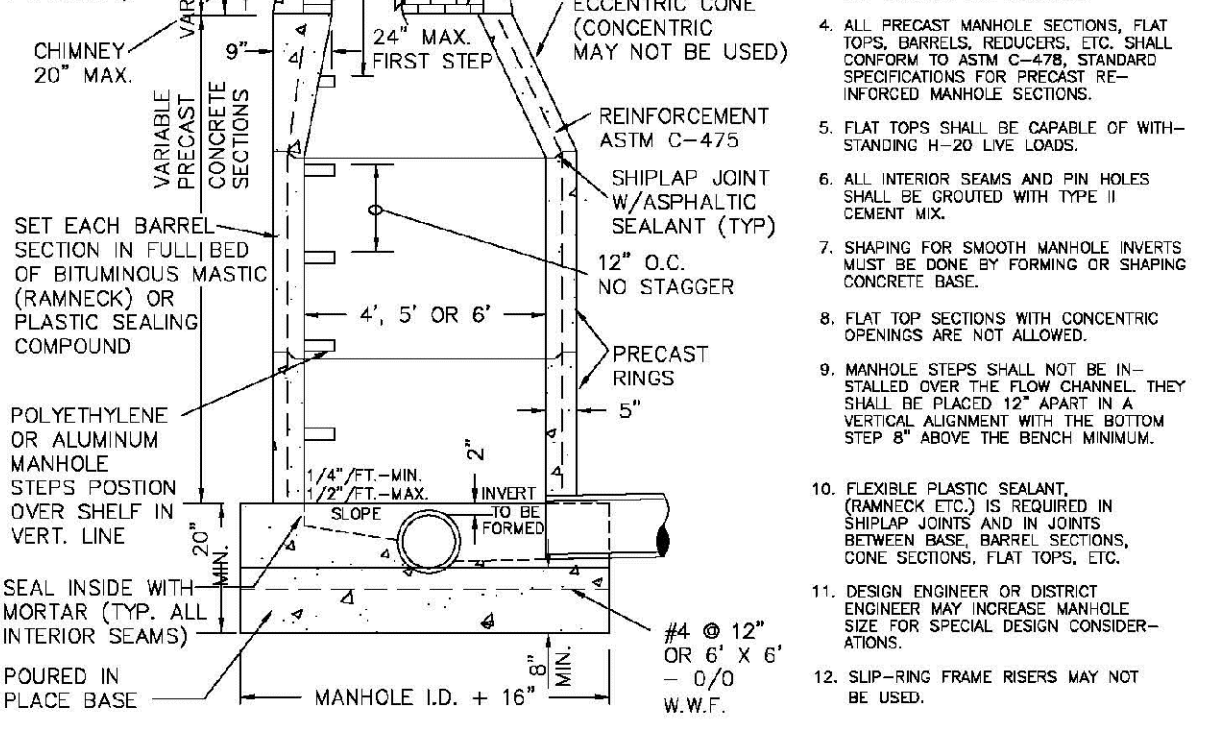
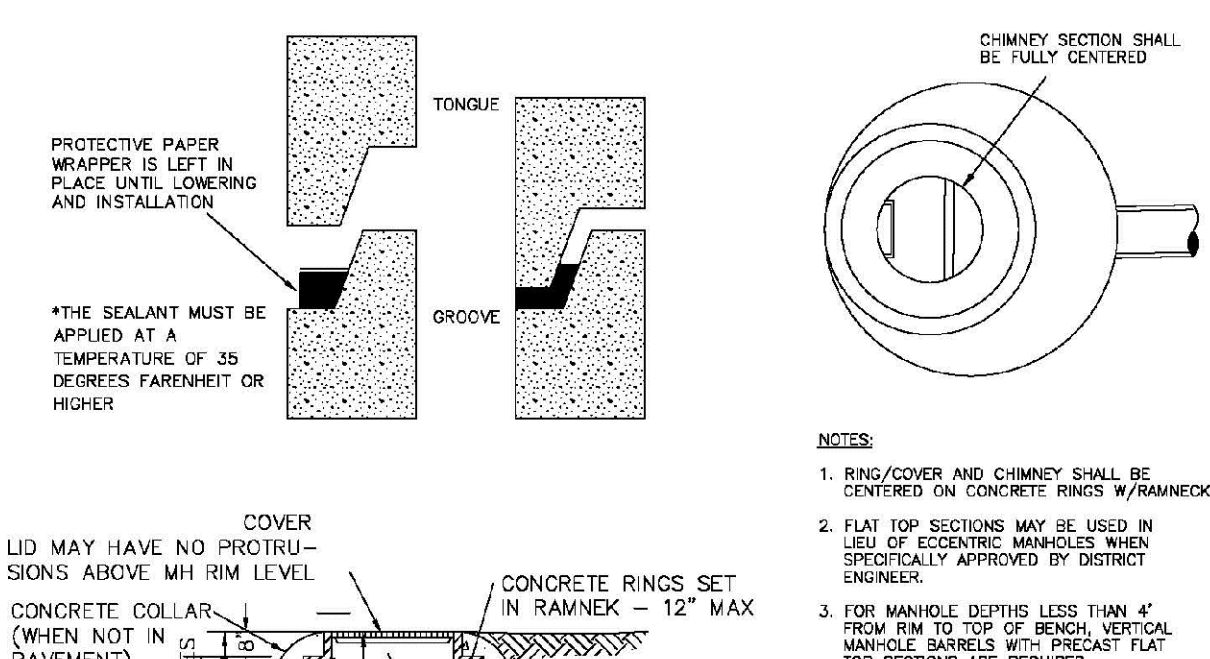
PARKER WATER & SANITATION DISTRICT
TYPICAL SEWER SERVICES

SCALE: NONE DATE: 2/96

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DIRECTOR OF ENGINEERING

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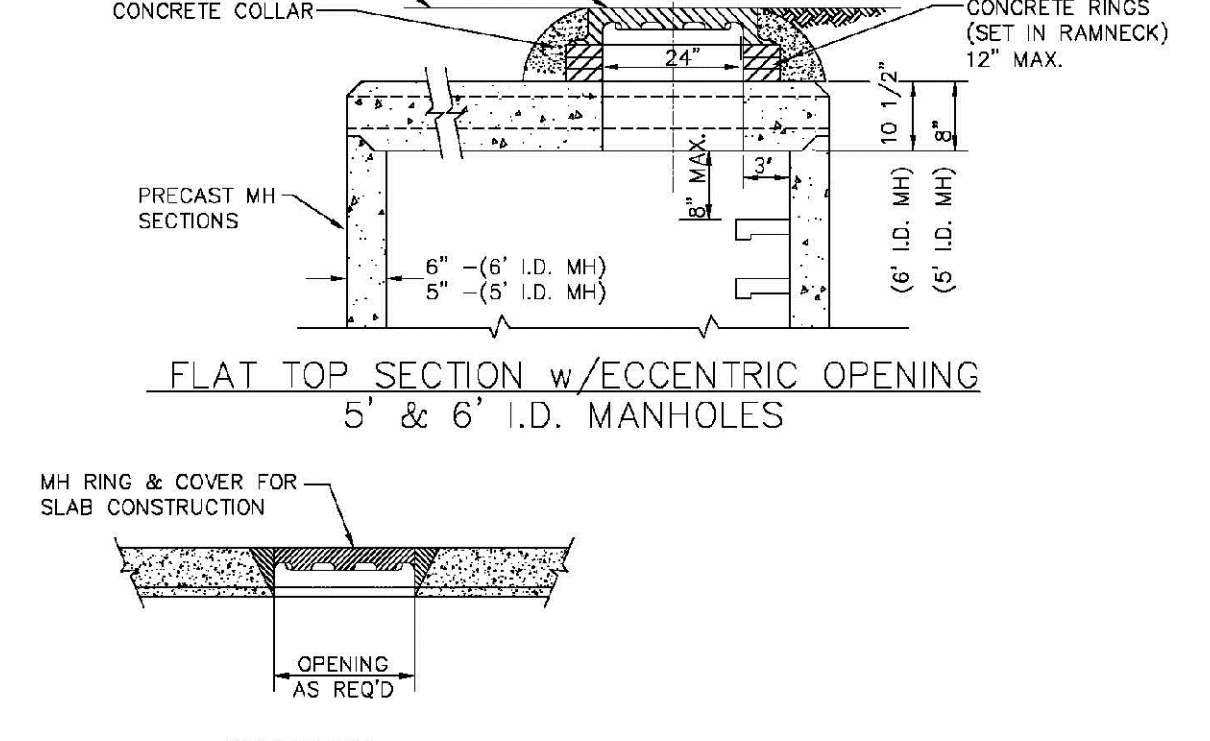
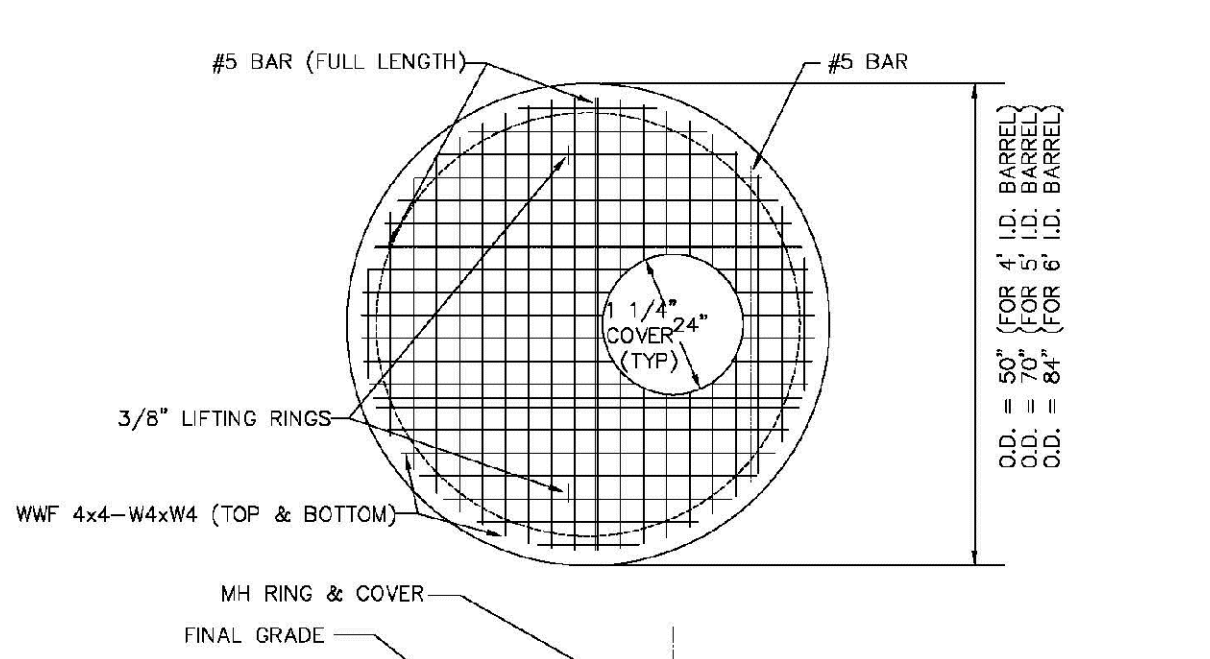
SHEET S1.2



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

2016 REVISION

SHEET S3.1



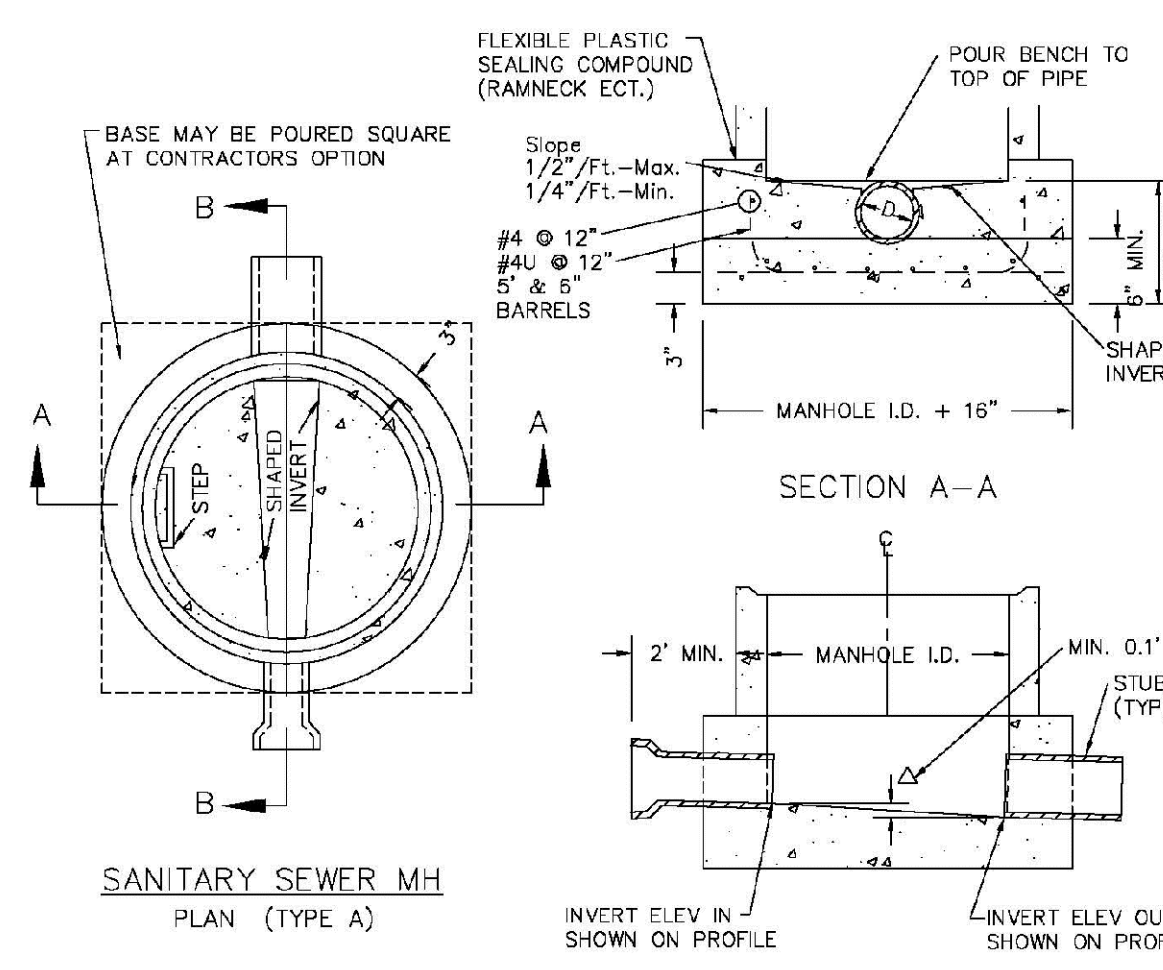
PARKER WATER & SANITATION DISTRICT
PARKER MANHOLE ECCENTRIC CONE

SCALE: NONE DATE: 2/96

APPROVED: PVR 4/01 10/16 01/02 01/16 1/08 1/16
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2016 REVISION

SHEET S3.3



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

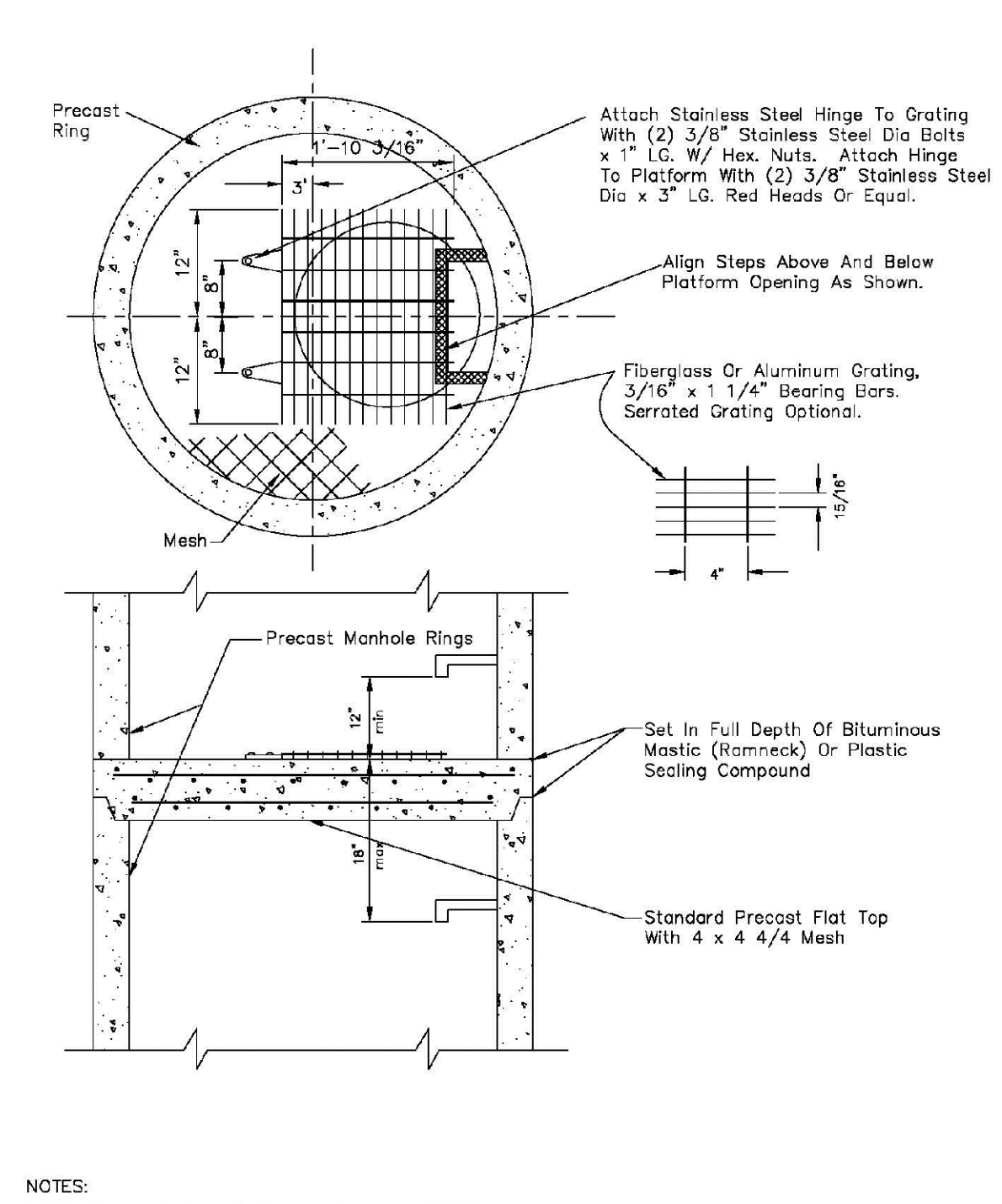
PARKER WATER & SANITATION DISTRICT
CAST-IN-PLACE MANHOLE BASE DETAIL

SCALE: NONE DATE: 2/96

APPROVED: PVR 01/02 01/16 10/16
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SHEET S3.5



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

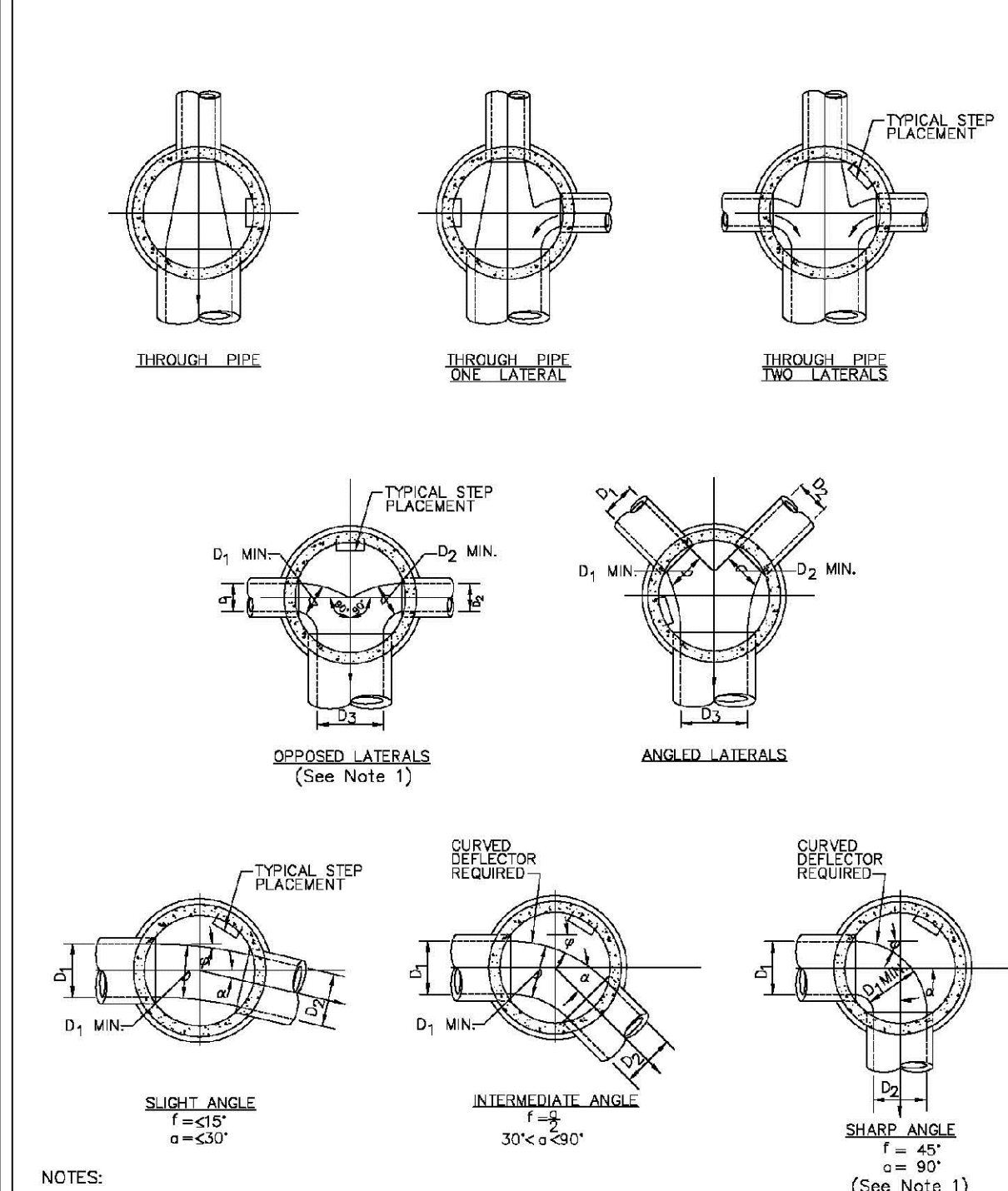
PARKER WATER & SANITATION DISTRICT
INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH

SCALE: NONE DATE: 2/96

APPROVED: PVR 2/00 01/02 01/16 10/16
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SHEET S3.6



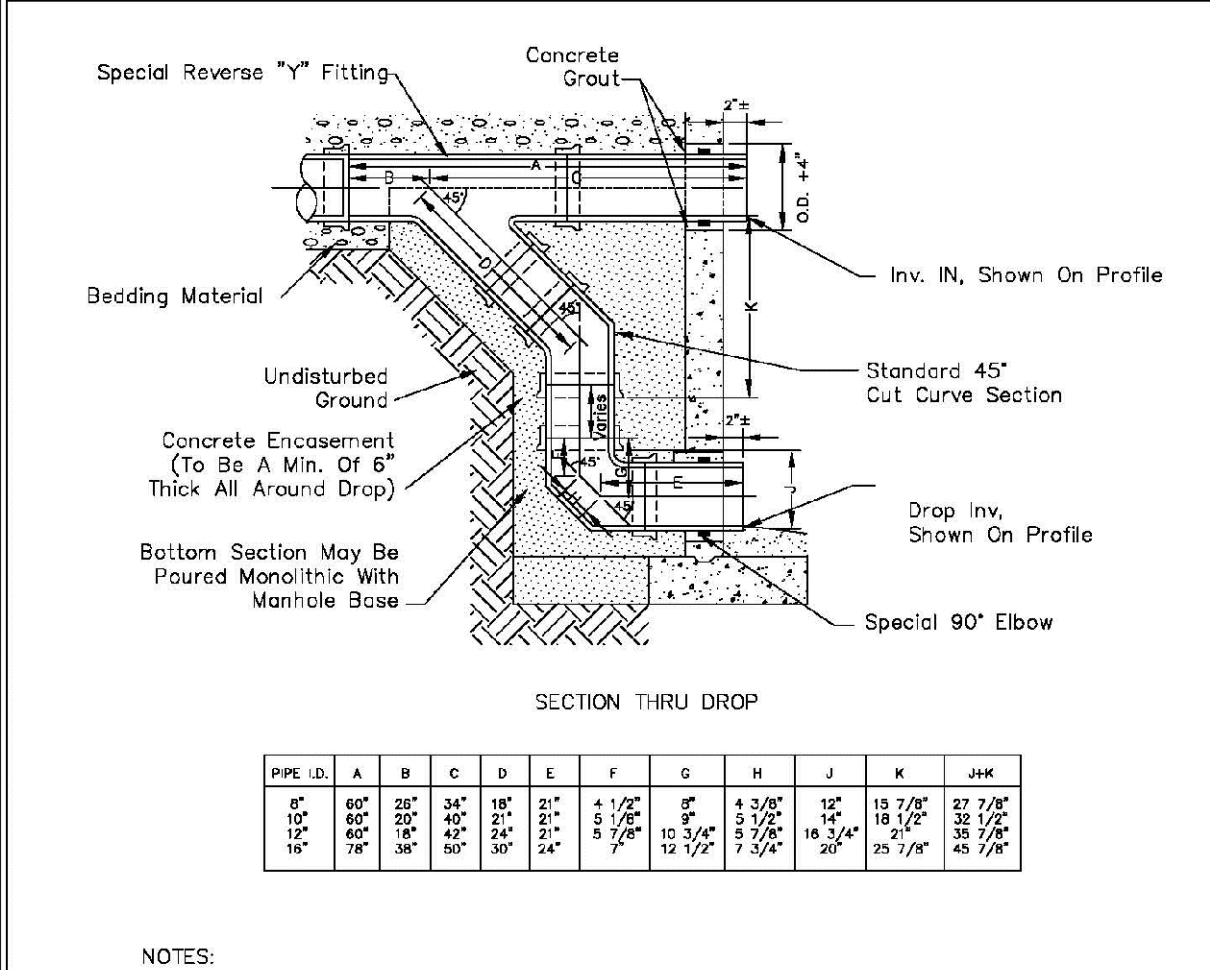
PARKER WATER & SANITATION DISTRICT
TYPICAL BASE CHANNELIZATION DETAILS

SCALE: NONE DATE: 2/96

APPROVED: PVR 01/16 10/16
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SHEET S3.7



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

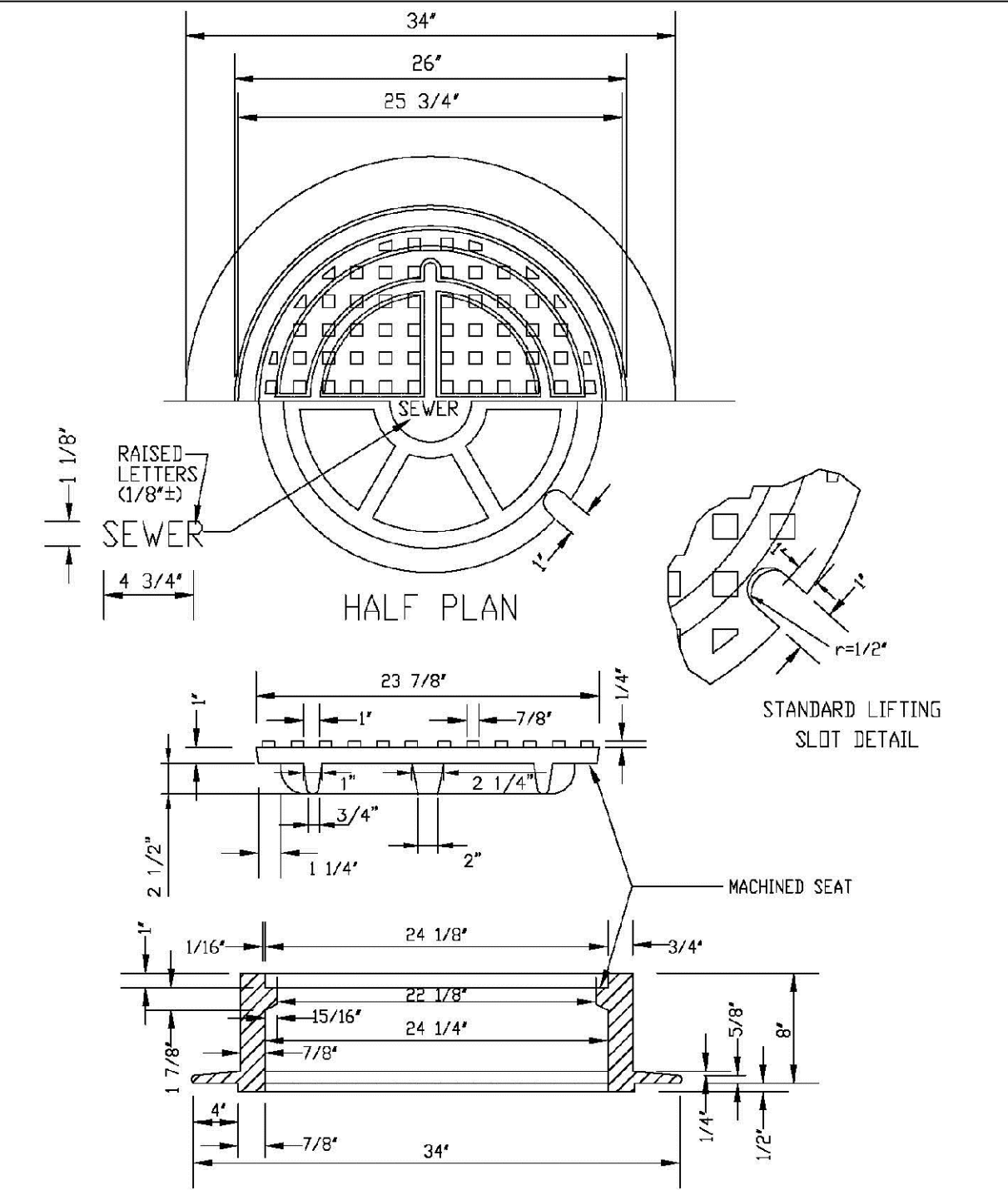
PARKER WATER & SANITATION DISTRICT
OUTSIDE DROP MANHOLE CONSTRUCTION

SCALE: NONE DATE: 2/96

APPROVED: PVR 01/16 10/16
DIRECTOR OF ENGINEERING

2016 REVISION

SHEET S3.8



PARKER WATER & SANITATION DISTRICT
24" DIAMETER RING AND COVER

SCALE: NONE DATE: 2/96

APPROVED: PVR 01/16 10/16
DIRECTOR OF ENGINEERING

2016 REVISION

SHEET S3.9

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TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DATE: SEPTEMBER 2017

20

DRAWN BY: JJ
CHECKED BY: JJ
DATE: SEPTEMBER 2017

10333 E. Dry Creek Rd
Suite 240
Englewood, CO 80112
Tel: 720.482.9512
www.cvlinc.com
westwoodjps.com

CVL
a Westwood team

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

No.	Revisions	Date	Init.	Appr.	Date

ALUMINUM STEP

STEPS TO BE HOOKED BEHIND REINFORCING WHEN CONCRETE SECTIONS ARE CAST.

VERTICAL SPACING 12" MIN. WITH BOTTOM STEP 6"-8" ABOVE BENCH

TYPICAL INSTALLATION

TOE POCKET DETAILS

STANDARD EXTRUDED ALUMINUM MANHOLE STEP

NOTES:

- ALUMINUM ALLOY SPECIFICATIONS
 - F35C-90-A-200/9 (ALUMINUM-MAGNESIUM-SILICATE ALLOY)
 - MINIMUM TENSILE STRENGTH= 35,000 P.S.I.
 - MINIMUM YIELD STRENGTH= 35,000 P.S.I.
 - MINIMUM ELONGATION=10% IN 2 INCHES
- MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP)
 - 1000 LB. WITH 6" PROJECTION FROM WALL.
 - 1500 LB. WITH 4" PROJECTION FROM WALL.
- WEIGHT PER STEP=2.23 POUNDS
- STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
- VERTICAL SPACING BETWEEN STEPS SHALL BE CONSISTENT IN EACH INDIVIDUAL MANHOLE.
- TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 18" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.

PARKER WATER & SANITATION DISTRICT
STANDARD EXTRUDED ALUMINUM MANHOLE STEP

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

SHEET 53.10

PIN FOR PRESS STEP

POLYPROPYLENE REINFORCED PLASTIC STEP

NOTES:

- ASTM SPECIFICATIONS:
 - ASTM C-419
 - ASTM A-815 GRADE 60 (STEEL ROD)
 - ASTM 2146-99, TYPE II, GRADE 180 (POLYPROPYLENE)
- STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 3-7/8 INCH LEG AND SHALL PROJECT FROM THE WALL 8-5/8 INCHES.
- STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8 INCHES.
- ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8 INCHES.
- STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY FABRICATED PIN TO FORM THE INSERT HOLE AS SHOWN.
- INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
- STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

PARKER WATER & SANITATION DISTRICT
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP

SCALE: NONE DATE: 2/05
APPROVED: PVR 01/16 10/16
DIRECTOR OF ENGINEERING

SHEET 53.11

CAST ALUMINUM MANHOLE STEP

REINFORCING

STEPS TO BE HOOKED BEHIND REINFORCED STEEL AND CAST AT SAME TIME CONCRETE SECTIONS ARE CAST.

MARKER POST DETAIL

CONCRETE CAP
STANDARD 4" STEEL PIPE PAINTED FIRE HYDRANT YELLOW OR 4" X 4" REDWOOD POST
DIRT FILL
GROUND LEVEL
CONCRETE

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
CAST ALUMINUM MANHOLE STEP

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

SHEET 53.12

MARKER POST DETAIL

CONCRETE CAP
STANDARD 4" STEEL PIPE PAINTED FIRE HYDRANT YELLOW OR 4" X 4" REDWOOD POST
DIRT FILL
GROUND LEVEL
CONCRETE

ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE

STREET WIDTH	ASPHALT BASE COURSE (1/2")	ASPHALT WEARING SURFACE (1/2")	TOTAL THICKNESS (1")
UP TO 36'	4"	2"	6"
36' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
MORE THAN 48'	6"	3"	9"

PARKER WATER & SANITATION DISTRICT
MARKER POST DETAIL

SCALE: NONE DATE: 2/98
APPROVED: PVR 2/02 10/16
DIRECTOR OF ENGINEERING

SHEET 53.13

SEWER TRENCHING AND BEDDING DETAIL

Lower limit of sloping or benching of trench walls

Bedding Squeezes to be placed in 6" lifts and fully compacted by hand. Backfill to 90% density, AASHTO T-199 in open areas and 95% density, AASHTO T-99 in all public R.O.W.

Bedding Squeezes to be placed in 6" lifts and fully compacted by hand. Backfill to 90% density, AASHTO T-199 in open areas and 95% density, AASHTO T-99 in all public R.O.W.

Bedding Squeezes to be placed in 6" lifts and fully compacted by hand. Backfill to 90% density, AASHTO T-199 in open areas and 95% density, AASHTO T-99 in all public R.O.W.

PARKER WATER & SANITATION DISTRICT
SEWER TRENCHING AND BEDDING DETAIL

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

SHEET 54.1

CONCRETE ARCH

Lower limit of sloping or benching of trench walls

Plain or Reinforced Concrete Continuous $f_c = 3500$ psi min.

Densely compacted backfill, hand-tamped (90% density, AASHTO T-180) in open areas and 95% density, AASHTO T-99 in all public R.O.W.

Compacted Granular Material (Class "B" Bedding)

CONCRETE CRADLE

Lower limit of sloping or benching of trench walls

Densely compacted backfill hand-tamped (90% density, AASHTO T-180) in open areas and 95% density, AASHTO T-99 in all public R.O.W.

Compacted Granular Material Class "B" Bedding

Plain or Reinforced Concrete Continuous $f_c = 3500$ psi min.

TABLE III

NOMINAL DIAMETER (D)	MINIMUM THICKNESS (t)	MIN. WIDTH OF CRADLE (W _c)
18" & smaller	6"	B ₀ + 8"
21" to 24"	8"	B ₀ + 8"
27" to 33"	8"	B ₀ + 8"
36" to 42"	10"	1.25 B ₀
48" & larger	1/4" D	1.25 B ₀

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

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

SHEET 54.2

CLASS "B" BEDDING

LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS

TRENCH BACKFILL MATERIAL, HAND-TAMPED IN 6" LIFTS

GRANULAR CLASS "B" BEDDING MATERIAL, HAND-TAMPED IN 6" LIFTS

TABLE IV

PIPE SIZE - D	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

GENERAL NOTES:

- 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.
- BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
- BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-199 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

SHEET 54.3

ROCK EXCAVATION

12" MIN.

GRANULAR CLASS "B" SQUEEZE BEDDING MATERIAL, HAND-TAMPED IN 6" LIFTS

TABLE IV

PIPE SIZE - D	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

GENERAL NOTES:

- 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.
- BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
- BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-199 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

SHEET 54.4

CLASS "B" BEDDING

HAND-TAMPED BACKFILL (TYP) FOR 6" LIFTS

GRANULAR CLASS "B" SQUEEZE BEDDING MATERIAL, HAND-TAMPED IN 6" LIFTS

GEOTEXTILE FILTER CLOTH

MIN. 1/2" MAX. ROCK

LARGE STONES, BRICK, CONCRETE, ETC. IF REQUIRED

TABLE IV

PIPE SIZE - D	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

GENERAL NOTES:

- 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.
- BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
- BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-199 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

SHEET 54.5

TYPE I CONCRETE ENCASEMENT FOR SANITARY SEWERS

PROPOSED SEWER OR CONDUIT

FILLER MATERIAL (SEE NOTE 15)

PIER SUPPORT (SEE NOTE 8)

CONCRETE ARCH (C₁ = 2000 PSI)

SHORING (SEE NOTE 8)

UNDISTURBED EARTH

HAND EXCAVATION REQUIRED AROUND SANITARY SEWER

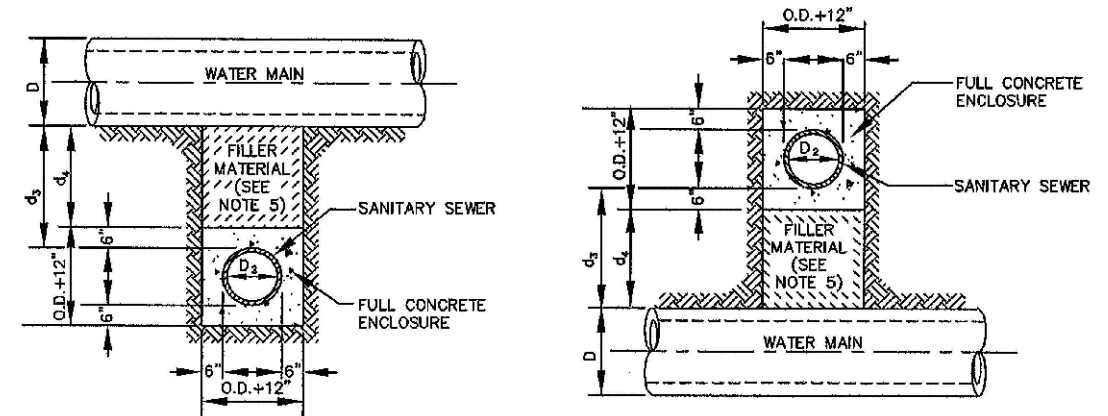
GENERAL NOTES FOR TYPE I, II, & III ENCASEMENT:

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS FOUNDED SEPARATELY. A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
 - TYPE I ENCASEMENT SHALL EXTEND AT LEAST TO FREE EACH SIDE OF WATER MAIN.
 - TYPE II ENCASEMENT SHALL EXTEND AT LEAST TO FREE EACH SIDE OF WATER MAIN.
 - TYPE III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II, OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I OR II IF D ≤ 48" (4' & 0")
 - TYPE III IF D ≤ 48" (4' & 0")
- WATER MAINS AND D_s ≤ 24" (2' & 0") SHALL BE PROTECTED BY CONCRETE ENCASEMENT CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION.
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OR UNDER PASSABLE SOIL CONDITIONS ARE ENCOURAGED. TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
 - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - APPROVED COMPRESSED MATERIAL SUCH AS STYROFOAM, ETC. 6" & 6" & 6"
 - IF 4" & 6" FOR TYPE II ENCASEMENT FOUR CONCRETE ON UNDISTURBED SOIL
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER IS EXTREMELY LARGE PER SUPPORTS ON EACH SIDE OF SANITARY SEWER SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

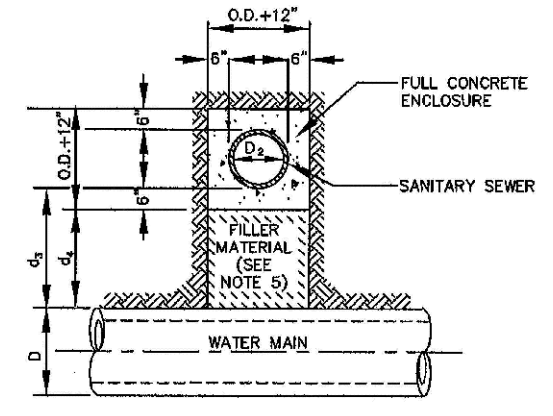
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASEMENT TYPE I

SCALE: NONE DATE: 2/98
APPROVED: JFN 5/98 2/02 1/16 10/16
DISTRICT ENGINEER

SHEET 6



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



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

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

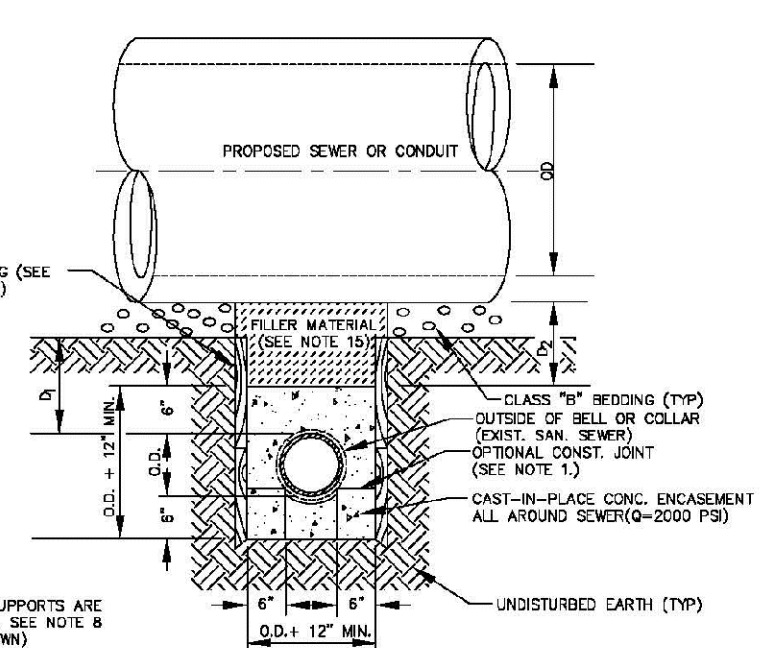
GENERAL NOTES FOR TYPE I, II & III ENCASMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASMENT FOR:
 - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
 - TYPE III ENCASMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I OR TYPE II IF $d_s \leq 18"$ (IF $d_s \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
 - TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION d_s .
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
 - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF SUCTILE IRON PIPE (AWWA C-152 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$, $d_s \leq 6"$.
 - COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$, $d_s > 6"$ (IF $d_s > 6"$ FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
- THESE ENCASMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIPE 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 ENCASMENT TYPE II

SCALE: NONE	DATE: 2/98
APPROVED: JFN	5/98
	4/01
DISTRICT ENGINEER	1/08

SHEET 7



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

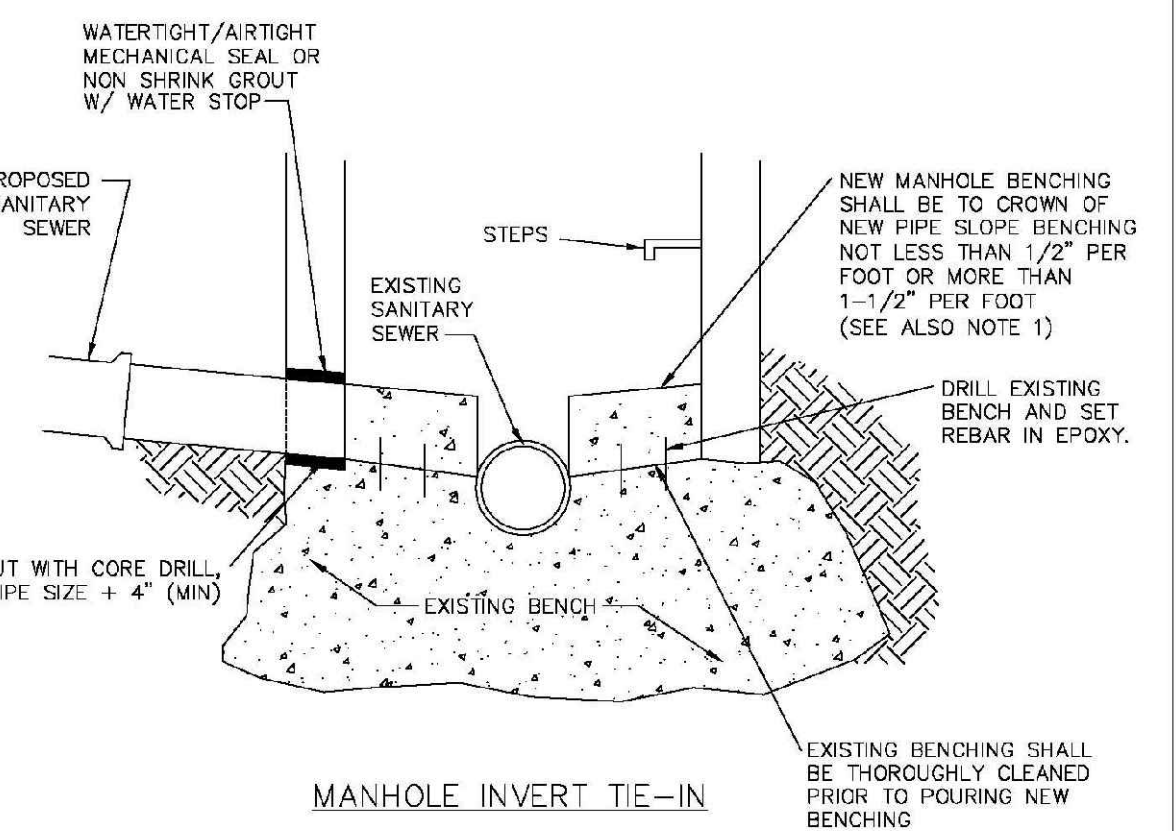
GENERAL NOTES FOR TYPE I, II & III ENCASMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASMENT FOR:
 - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
 - TYPE III ENCASMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I & III ENCASMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I OR TYPE II IF $d_s \leq 18"$ (IF $d_s \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
 - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING UNDER WATER MAINS AND $d_s \leq 24"$ (IF $d_s \leq 18"$).
 - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION d_s .
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
 - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF SUCTILE IRON PIPE (AWWA C-152 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$, $d_s \leq 6"$.
 - COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$, $d_s > 6"$ (IF $d_s > 6"$ FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
- THESE ENCASMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIPE SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.
- CONCRETE ENCASED SHING SHALL BE LINED WITH FILL.

PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE III

SCALE: NONE	DATE: 2/98
APPROVED: PVR	5/98
	1/18
DIRECTOR OF ENGINEERING	10/16

SHEET 8A.8



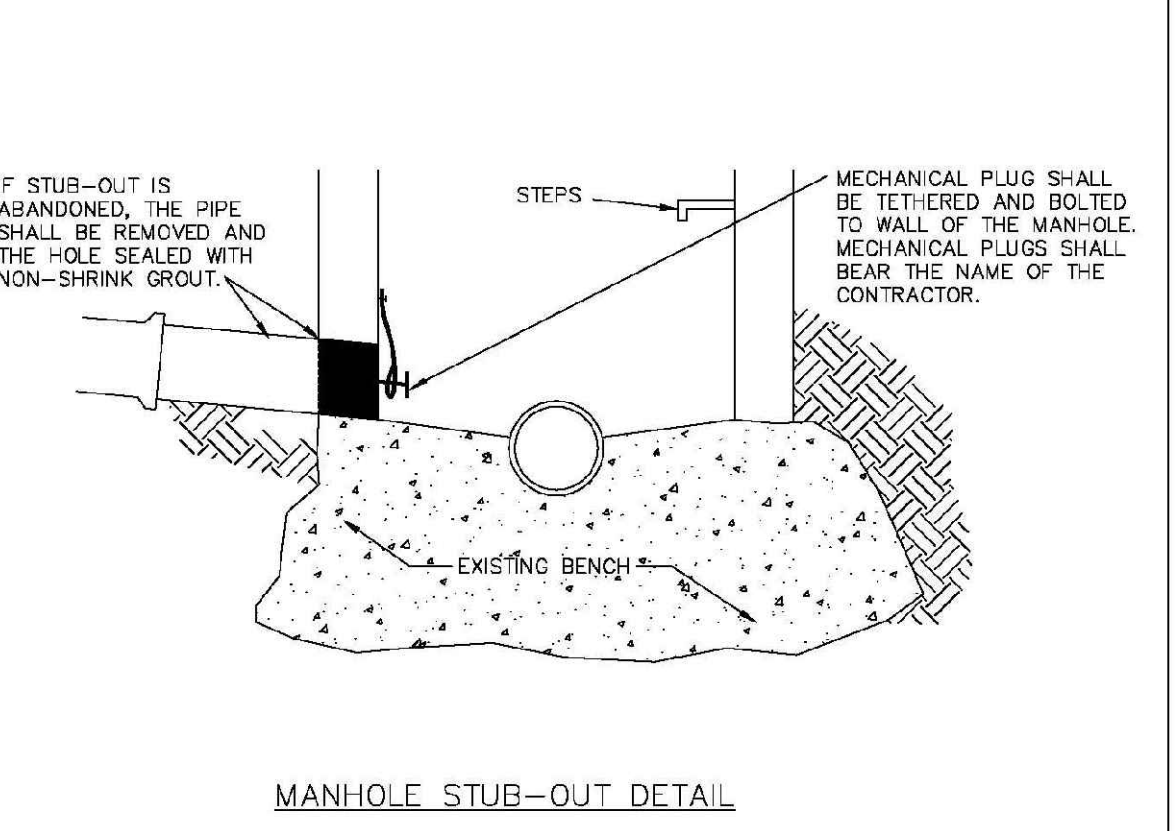
MANHOLE INVERT TIE-IN

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	1/18
	10/16
DIRECTOR OF ENGINEERING	

SHEET 8A.9



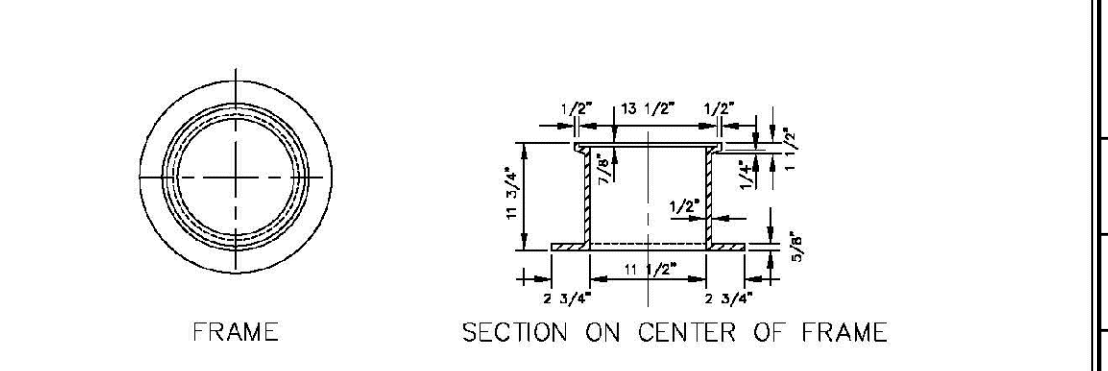
MANHOLE STUB-OUT DETAIL

NOTES
1 - NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

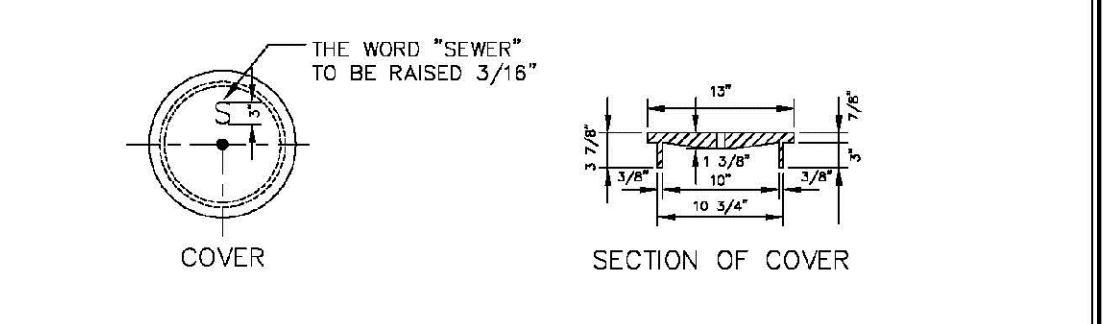
PARKER WATER & SANITATION DISTRICT
MANHOLE STUB-OUT DETAIL

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

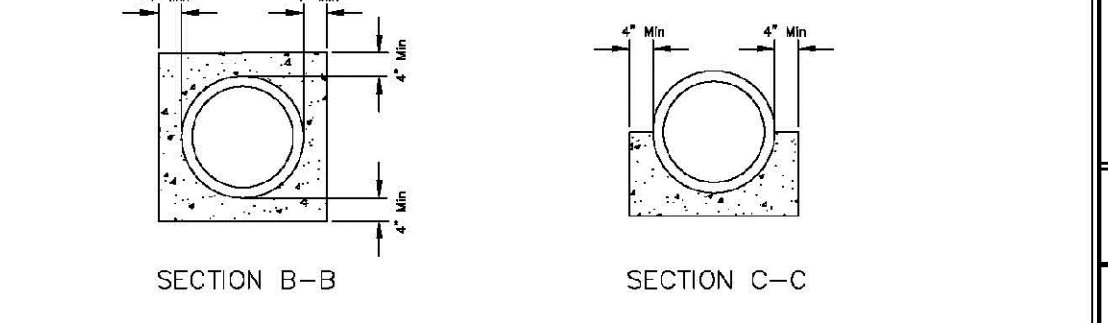
SHEET 8A.10



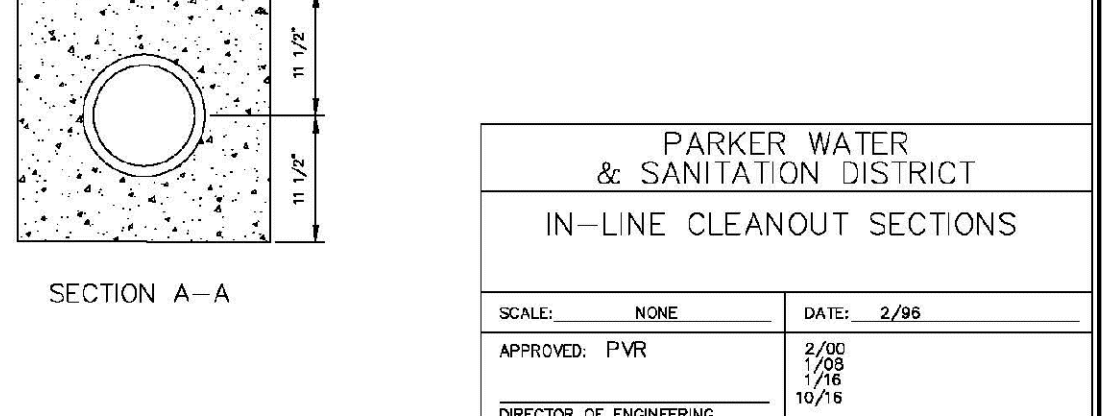
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COVER



SECTION B-B **SECTION C-C**



SECTION A-A **IN-LINE CLEANOUT SECTIONS**

NOTES
1 - NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

PARKER WATER & SANITATION DISTRICT
IN-LINE CLEANOUT SECTIONS

SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/00
	1/08
DIRECTOR OF ENGINEERING	10/16

SHEET 8A.12

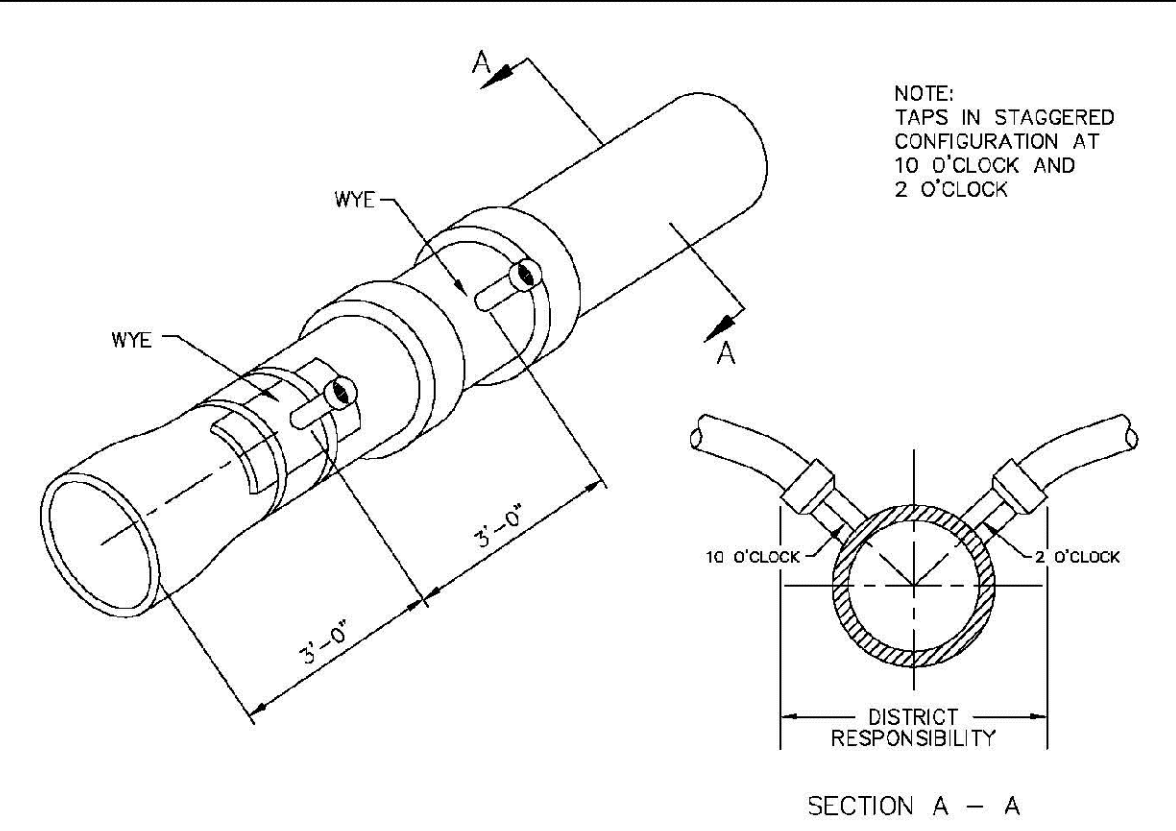
2008 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION



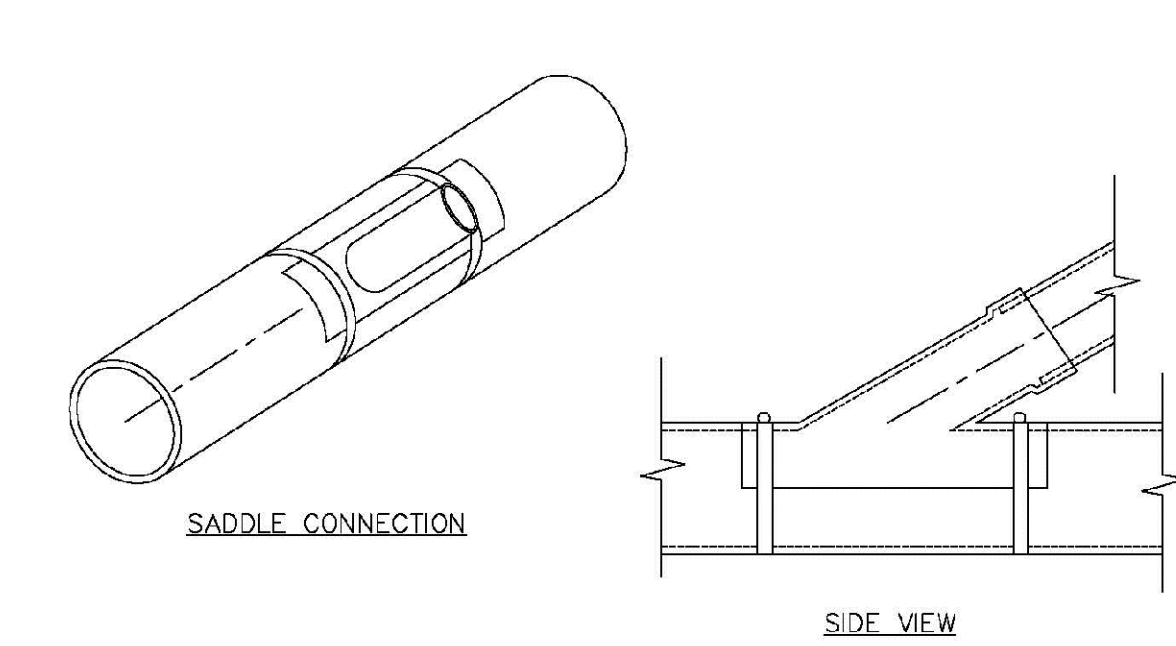
DOMESTIC SEWER TAPPING DETAIL

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

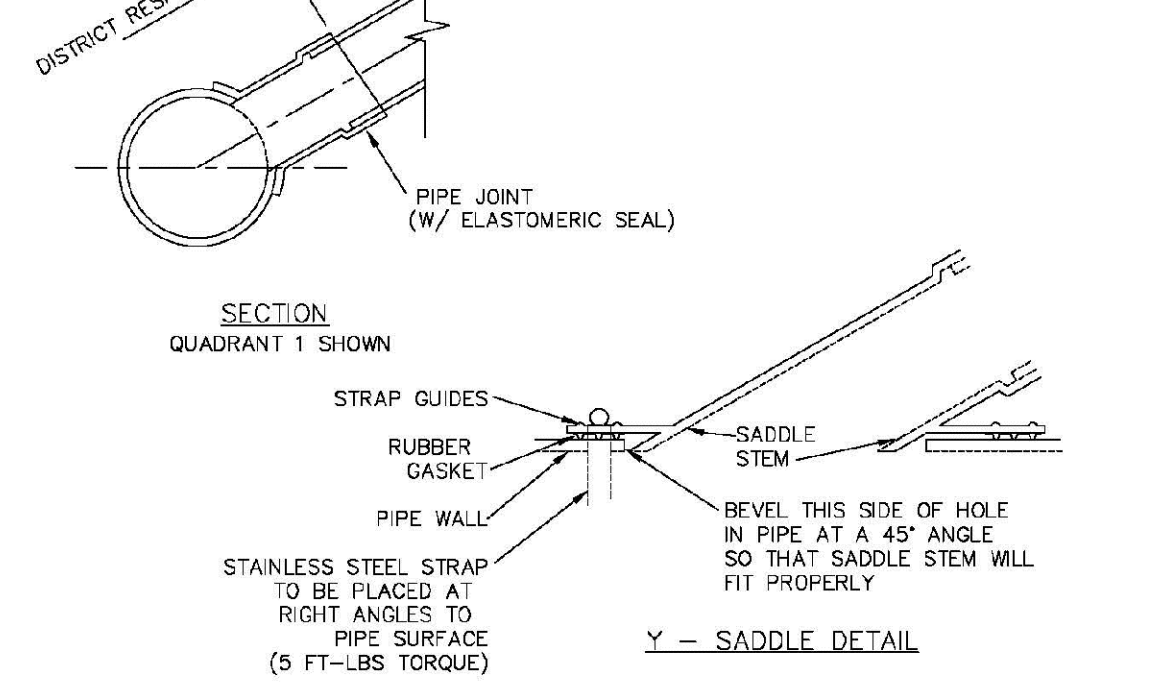
PARKER WATER & SANITATION DISTRICT
DOMESTIC SEWER TAPPING DETAIL

SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01
	1/08
DIRECTOR OF ENGINEERING	10/16

SHEET 8A.13



SADDLE CONNECTION



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: 2/98
APPROVED: PVR	1/18
	10/16
DIRECTOR OF ENGINEERING	

SHEET 8A.14

2016 REVISION

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

10333 E. Dry Creek Rd
Suite 240
Englewood, CO 80112
Tel: 720.482.952
www.cvlinc.net
westwoodjps.com

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701

DRAWN BY: JF
CHECKED BY: JU
DATE: SEPTEMBER 2017

SHEET NUMBER **22**

Revisions
No. _____
Date _____
Init. _____
Appr. _____
Date _____

