

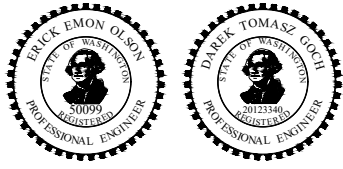
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CITY OF  KIRKLAND

JUANITA DRIVE MULTIMODAL, INTERSECTION  
AND SAFETY IMPROVEMENTS

JOB NO. 39-23-PW  
CIP NO. STC-0089

SEPTEMBER 2023

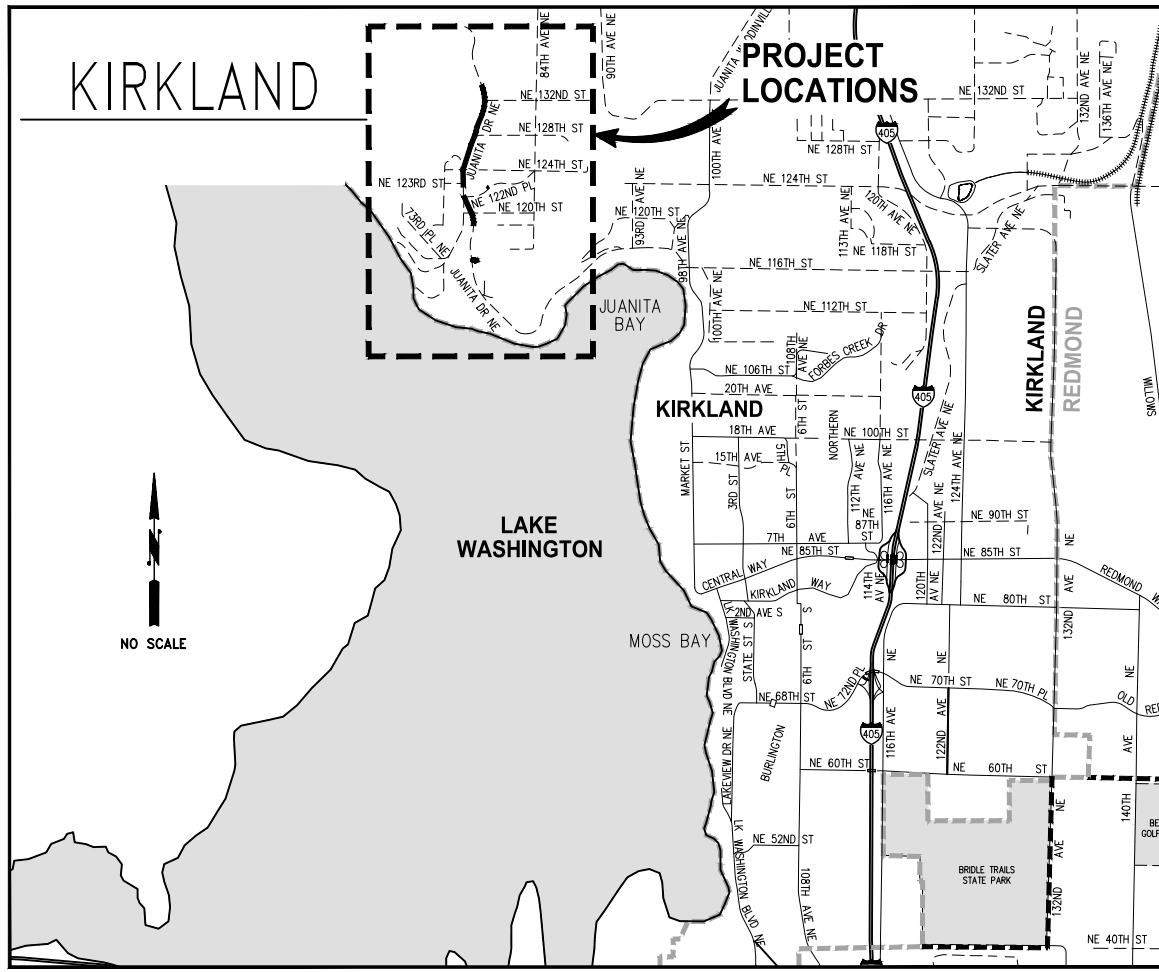


CITY OFFICIALS

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NEAL BLACK	COUNCIL MEMBER
KELLI CURTIS	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
TOBY NIXON	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
JULIE UNDERWOOD	PUBLIC WORKS DIRECTOR
ROD STEITZER, PE	CAPITAL PROJECTS MANAGER

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Chris Combs	COMCAST	425.273.7832
Cheryl Schneider	ZIPLY	509.218.1294
EMERGENCY	NORCOM	911
POLICE MAIN LINE	COK	425.587.3400
FIRE MAIN LINE	COK	425.864.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
ONE CALL UTILITY LOCATE		800.424.5555



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INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3 - 4	ALIGNMENT & SURVEY CONTROL PLANS
5 - 7	TYPICAL SECTIONS
8	TYPICAL DETAILS
9 - 16	SITE PREPARATION & TESC PLANS
17 - 29	STORMWATER PLAN & PROFILES
30 - 32	STORMWATER DETAILS
33 - 46	ROADWAY PLAN & PROFILES
47	DRIVEWAY PLAN & PROFILE
48 - 54	INTERSECTION PLANS
55 - 57	MODULAR BLOCK WALLS PLAN & PROFILES
58 - 59	GRAVITY BLOCK WALL PLAN & PROFILES
60 - 63	SOLDIER PILE WALL PLAN & PROFILES, SCHEDULE & DETAILS
64 - 73	ILLUMINATION PLANS & DETAILS
74 - 81	LANDSCAPE RESTORATION PLANS, SCHEDULE & DETAILS
82 - 89	CHANNELIZATION & SIGNING PLANS
90 - 97	EXISTING CONDITIONS & POT HOLE PLANS
98 - 114	CITY OF KIRKLAND STANDARD DETAILS
115 - 132	WSDOT STANDARD PLANS
133 - 161	NUD WATER & SEWER PLAN & PROFILES, & DETAILS

September 16, 2023 - 6:58 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\LEGABBREV.DWG - Layout Name: LEG-ABBREV

**EXISTING LEGEND**

MIC	MONUMENT IN CASE	○	BOULDER
△	PK NAIL	⊥	SIGN
RC	REBAR & CAP	⊕	MAILBOX (# OF BOXES)
□	CATCH BASIN	○	SHRUB
⊕	STORM DRAIN MANHOLE	⊕ XX"	SHRUB, DIAMETER
^	CULVERT	⊕ XX"	DECIDUOUS TREE, DIAMETER (# OF TRUNKS)
○	SEWER MANHOLE	⊕ XX"	CONIFEROUS TREE, DIAMETER (# OF TRUNKS)
⊕	POWER POLE	---	CONDUIT
⊕	POWER POLE W/UNDERGROUND CONNECT	---	PAINTED POWER
⊕	POWER POLE WITH LUMINAIRE	---	RECORD POWER
⊕	POWER POLE WITH LUMINAIRE AND UG CONNECT	---	PAINTED TELEPHONE
⊕	POWER VAULT LID	---	RECORD TELEPHONE
⊕	POWER TRANSFORMER	---	PAINTED FIBER OPTIC
○	GUY POLE	---	PAINTED TV
→	GUY ANCHOR	---	PAINTED WATER
⊕	TRAFFIC SIGNAL	---	RECORD WATER
⊕	TRAFFIC SIGNAL WITH LUMINAIRE	---	PAINTED GAS
⊕	PEDESTRIAN SIGNAL	---	RECORD GAS
⊕	JUNCTION BOX	---	OVERHEAD UTILITY LINE (GENERIC)
⊕	TRAFFIC CONTROL CABINET	---	STORM
○	TRAFFIC ATTENUATOR LOOP	---	SEWER
⊕	LOT LIGHT	---	FENCE
⊕	ROADWAY LUMINAIRE	---	HEDGE (HEIGHT NOTED)
⊕	TELEPHONE RISER	---	BUILDING
⊕	GAS VALVE	---	PAINTED STRIPE
⊕	WATER VALVE	---	PAINTED SKIP STRIPE
⊕	WATER METER	---	EDGE OF PAVEMENT
⊕	WATER MANHOLE	---	FLOWLINE
⊕	FIRE HYDRANT	---	CONTOUR
⊕	IRRIGATION CONTROL VALVE	---	AQUATIC FEATURE UNLESS OTHERWISE NOTED
⊕	UTILITY VAULT LID (GENERIC/UNKNOWN)	---	CONCRETE
⊕	UTILITY RISER (GENERIC/UNKNOWN)	---	GRAVEL
⊕	STAND-PIPE (GENERIC/UNKNOWN)	---	ROCKERY
⊕	UTILITY ACCESS (GENERIC/UNKNOWN)	---	
⊕	BORE SITE (WITH FIELD DESCRIPTION)	---	
⊕	GUARD POST	---	

**PROPOSED LEGEND**

-----	REMOVE CURB & GUTTER OR EXTRUDED CURB
////	REMOVE/ABANDON EXISTING PIPE
----	FULL DEPTH SAWCUT
---	CLEARING & GRUBBING LIMITS
---	HIGH VISIBILITY SILT FENCE
---	HIGH VISIBILITY FENCE
---	TREE PROTECTION FENCE (SITE PREP PLANS)
////	BUTT JOINT
---	PROPERTY LINE
---	RIGHT OF WAY
---	TEMP CONSTRUCTION EASEMENT (TCE)
---	APPROX CUT DAYLIGHT LINE
---	APPROX FILL DAYLIGHT LINE
---	FENCE (ROADWAY PLANS)
---	STORM DRAIN PIPE
---	WATER LINE
---	CONDUIT
---	CURB AND GUTTER
---	RETAINING WALL
---	SOLDIER PILE WALL
---	INLET PROTECTION
---	CATCH BASIN TYPE 1 OR TYPE 1L
---	CATCH BASIN TYPE 2
---	DIRECTIONAL FLOW ARROW
---	WATER VALVE
---	WATER METER
---	LONG SLEEVE COUPLING
---	FL x RJ ADAPTER
---	FIRE HYDRANT
---	WATER CAP
---	CONC THRUST BLOCK
---	ROADWAY LUMINAIRE
---	JUNCTION BOX TYPE 1, 2, 8
---	ELECTRICAL SERVICE CABINET
---	APS PEDESTRIAN PUSH BUTTON
---	RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
---	SIGN
---	REMOVE CONIFEROUS / DECIDUOUS TREE

---	REMOVE CEMENT CONCRETE SIDEWALK
---	REMOVE ASPHALT CONC & UNDERLYING CEMENT CONC (SCHEDULE A)
---	REMOVE ASPHALT CONC & UNDERLYING CEMENT CONC (SCHEDULE B)
---	GRIND & OVERLAY (SCHEDULE A)
---	GRIND & OVERLAY (SCHEDULE B)
---	CEMENT CONC SIDEWALK
---	CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE
---	ASPHALT ROADWAY (SCHEDULE A)
---	ASPHALT ROADWAY (SCHEDULE B)
---	ASPHALT DRIVEWAY
---	GRAVEL RESTORATION/SHOULDER/MAILBOX CLUSTER PAD
---	TRUNCATED DOME TEXTILE WARNING SURFACE

**ABBREVIATIONS**

AC	ASPHALT CONCRETE	L	LENGTH	SE	SOUTHEAST
ACP	ASPHALT CONCRETE PAVEMENT	LT	LEFT	SHT	SHEET
ADA	AMERICANS WITH DISABILITIES ACT	LF	LINEAR FEET	SQ	SQUARE
AP	ANGLE POINT	LAT	LATERAL	SS	SANITARY SEWER
APPROX	APPROXIMATE	LP	LOW POINT	SSMH	SANITARY SEWER MANHOLE
BLDG	BUILDING	MAX	MAXIMUM	ST	STREET
CB	CATCH BASIN	MIN	MINIMUM	STA	STATION
CCP	CEMENT CONCRETE PAVEMENT	MH	MANHOLE	STD	STANDARD
CDF	CONTROLLED DENSITY FILL	MIC	MONUMENT IN CASE	STCR	STRUCTURE
CHLK	CHAINLINK	MJ	MECHANICAL JOINT	SW	SOUTHWEST
CL	CLASS	MOD	MODULAR BLOCK	TOC	TOP OF CURB
CO	CLEANOUT	MON	MONUMENT	TYP	TYPICAL
COK	CITY OF KIRKLAND	N	NORTH OR NORTHING	UG	UNDERGROUND
COL	COLUMN	NAVD	NORTH AMERICAN VERTICAL DATUM	VERT	VERTICAL
CONC	CONCRETE	NB	NORTHBOUND	W	WEST
CSBC	CRUSHED SURFACING BASE COURSE	NO	NUMBER	YD	YARD DRAIN
CSTC	CRUSHED SURFACING TOP COURSE	NTS	NOT TO SCALE		
DI	DUCTILE IRON	NUD	NORTHSHORE UTILITY DISTRICT		
DIA	DIAMETER	OC	ON CENTER		
DW	DRIVEWAY	OD	OUTSIDE DIAMETER		
E	EAST OR EASTING	PC	POINT OF CURVE		
EA	EACH	PCC	POINT OF COMPOUND CURVATURE		
EG	EXISTING GROUND	PCCP	PERVIOUS CEMENT CONCRETE PAVEMENT		
ELEV	ELEVATION	PI	POINT OF INTERSECTION		
EOP	EDGE OF PAVEMENT	POB	POINT OF BEGINNING		
EW	EACH WAY	POE	POINT OF ENDING		
EXIST	EXISTING	PRC	POINT OF REVERSE CURVATURE		
FF	FINISHED FLOOR	PT	POINT OF TANGENT		
FG	FINISHED GROUND	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE		
FL	FLOW LINE	PVT	POINT OF VERTICAL TANGENT		
FO	FIBER OPTIC	PVI	POINT OF VERTICAL INTERSECTION		
FOC	FACE OF CURB	R	RADIUS		
HMA	HOT MIX ASPHALT	ROW	RIGHT OF WAY		
HORIZ	HORIZONTAL	RT	RIGHT		
HP	HIGH POINT	S	SLOPE OR SOUTH		
ID	INSIDE DIAMETER	S PILE	SOLDIER PILE		
IE	INVERT ELEVATION	SB	SOUTHBOUND		
IN	INCH/INCHES	SD	STORM DRAIN		
JB	JUNCTION BOX	SDMH	STORM DRAIN MANHOLE		

DATE	NO.	REVISION	BY



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DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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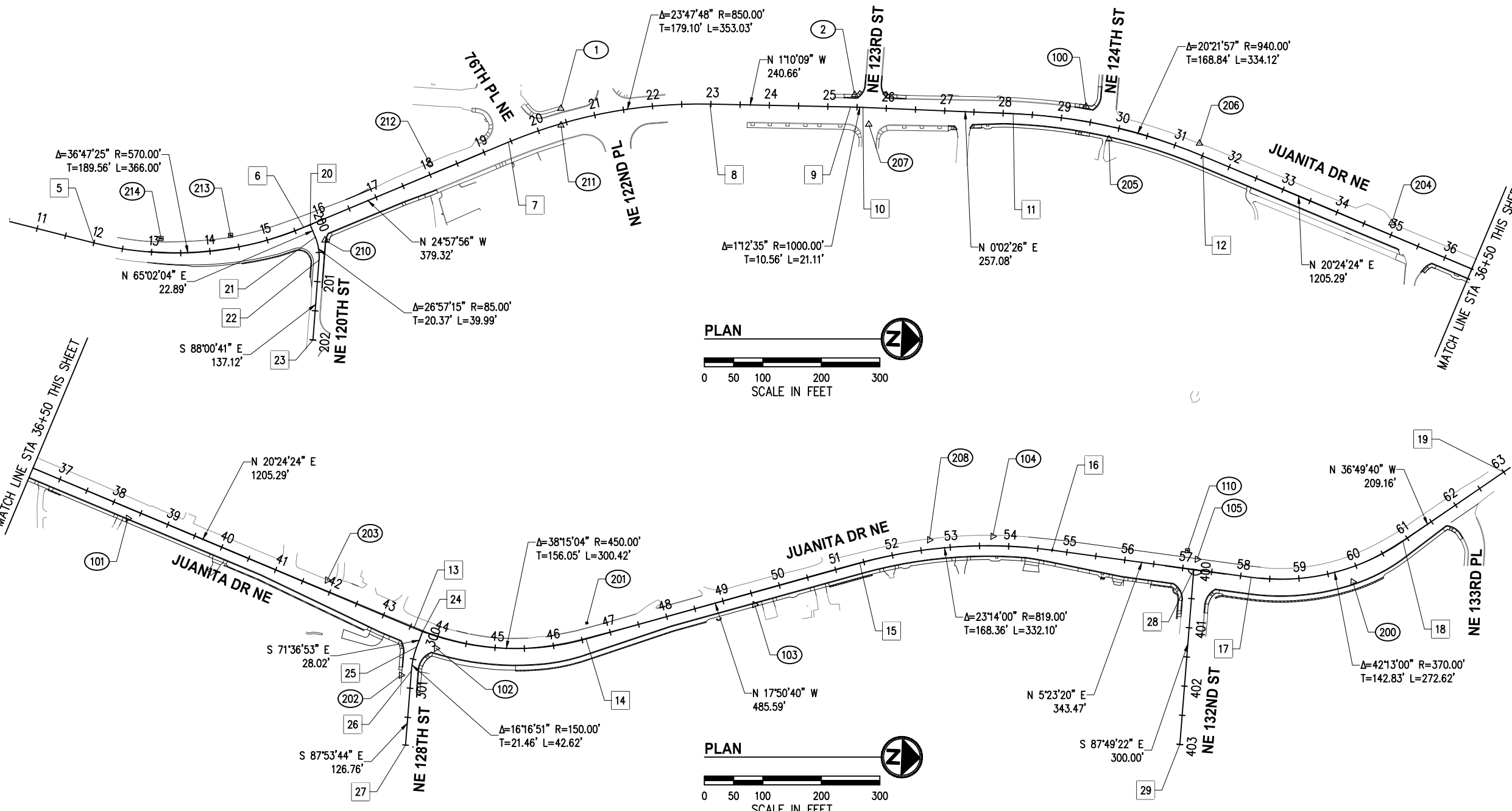
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

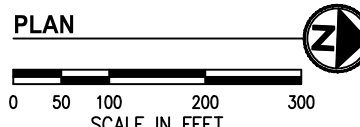
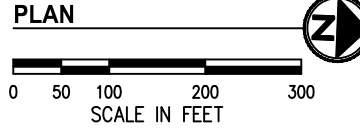
**LEGEND & ABBREVIATIONS**

REFERENCE SHEET NO.
SHEET 2 OF 161 SHEETS

September 16, 2023 - 6:58 PM - VONNIE - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SURVCNTRL.DWG - Layout Name: SURVCNTRL (2)



# CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	SPIKE	261827.60	1294599.72	279.10'
2	SPIKE	262328.57	1294555.42	302.41'
100	SPIKE	262724.86	1294559.16	321.94'
101	SPIKE	263561.33	1294888.83	334.31'
102	SPIKE	264097.25	1295088.96	337.15'
103	PK	264638.09	1294991.96	334.43'
104	PK	265040.07	1294858.46	336.34'
105	SPIKE	265390.73	1294883.23	335.06'
110	HT	265373.73	1294870.06	334.80'
200	SPIKE	265658.35	1294910.94	338.31'
201	HT	264352.49	1295035.06	335.14'
202	PK	264038.94	1295137.30	341.99'
203	SPIKE	263906.12	1294980.19	335.03'
204	SPIKE	263255.45	1294736.66	332.05'
205	PK	262766.45	1294613.42	320.39'
206	PK	262921.15	1294614.30	326.93'
207	PK	262354.86	1294605.24	303.25'
208	PK	264931.97	1294868.95	336.25'
210	PK	261433.88	1294841.35	258.90'
211	PK	261829.00	1294628.39	278.04'
212	PK	261607.68	1294702.95	265.26'
213	HT	261272.35	1294839.69	252.70'
214	HT	261153.76	1294850.10	249.35'



**HORIZONTAL DATUM**  
WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**  
NAVD 88.

ALIGNMENT GEOMETRY POINTS				
#	DESCRIPTION	STATION	NORTHING	EASTING
5	BEGIN JUANITA DR ALIGN, PC	12+00.0	261039.29	1294862.22
6	PT	15+66.0	261396.68	1294821.05
7	PC	19+45.3	261740.55	1294660.95
8	PT	22+98.4	262081.98	1294581.71
9	PC	25+39.0	262322.59	1294576.79
10	PT	25+60.1	262343.70	1294576.59
11	PC	28+17.2	262600.79	1294576.77
12	PT	31+51.3	262927.88	1294635.76
13	PC	43+56.6	264057.52	1295056.02

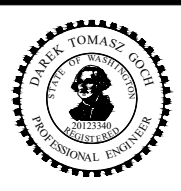
ALIGNMENT GEOMETRY POINTS				
#	DESCRIPTION	STATION	NORTHING	EASTING
14	PT	46+57.0	264352.32	1295062.61
15	PC	51+42.6	264814.55	1294913.81
16	PT	54+74.7	265142.44	1294878.03
17	PC	58+18.2	265484.39	1294910.29
18	PT	60+90.8	265740.93	1294838.09
19	END JUANITA DR ALIGN	63+00.0	265908.35	1294712.71
20	BEGIN NE 120TH ST ALIGN	200+00.0	261407.55	1294815.99
21	PC	200+22.9	261417.21	1294836.74
22	PT	200+62.9	261425.11	1294875.57

ALIGNMENT GEOMETRY POINTS				
#	DESCRIPTION	STATION	NORTHING	EASTING
23	END NE 120TH ST ALIGN	202+00.0	261420.35	1295012.61
24	BEGIN NE 128TH ST ALIGN	300+00.0	264072.49	1295061.29
25	PC	300+28.0	264063.66	1295087.88
26	PT	300+70.6	264056.10	1295129.68
27	END NE 128TH ST ALIGN	301+97.4	264051.45	1295256.36
28	BEGIN NE 132ND ST ALIGN	400+00.0	265385.62	1294900.97
29	END NE 132ND ST ALIGN	403+00.0	265374.22	1295200.75

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9/2023	9/2023



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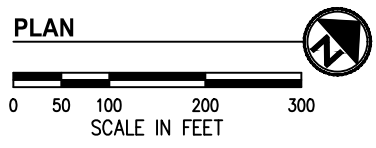
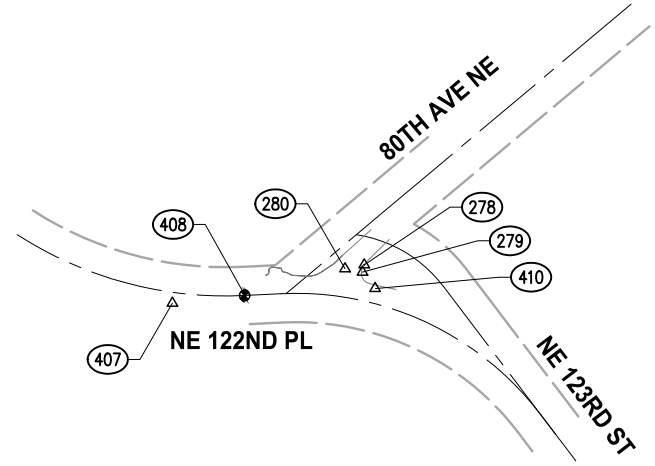
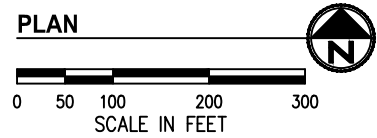
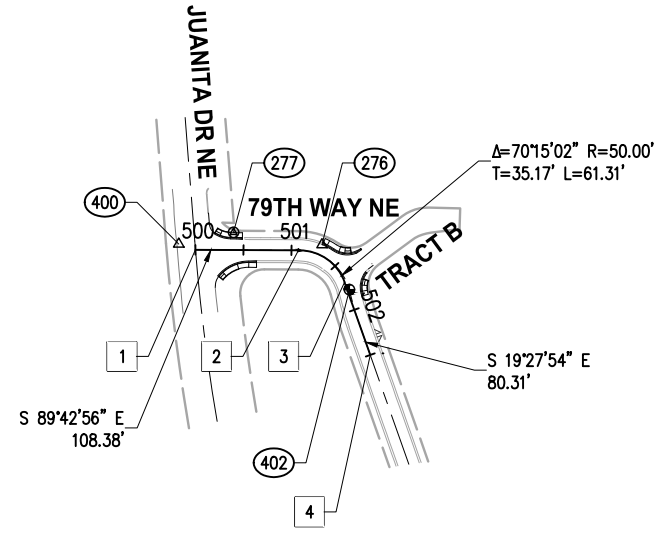
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

JUANITA DR NE

**ALIGNMENT & SURVEY CONTROL PLAN**

REFERENCE SHEET NO. SHEET 4 OF 161 SHEETS

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**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

NAVD 88.

#	CONTROL POINT LIST			
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
276	PK	259966.14	1294940.70	207.99'
277	MON	259978.91	1294848.57	201.19'
278	PK	262303.02	1295394.33	338.16'
279	PK	262296.54	1295398.74	338.34'
280	PK	262285.44	1295383.99	337.28'
400	PK	259966.75	1294791.51	201.60'
402	MIC	259919.23	1294969.07	211.22'
407	PK	262127.54	1295290.72	326.83'
408	MIC	262188.82	1295334.93	330.21'
410	PK	262294.96	1295420.18	340.44'

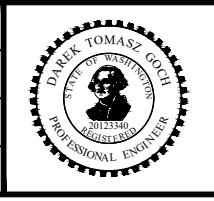
ALIGNMENT GEOMETRY POINTS				
#	DESCRIPTION	STATION	NORTHING	EASTING
1	BEGIN 79TH WAY NE ALIGN	500+00.0	259960.79	1294808.89
2	PC	501+07.3	259960.26	1294916.15
3	PT	501+69.7	259926.91	1294964.16
4	END 79TH WAY NE ALIGN	502+50.0	259851.19	1294990.93

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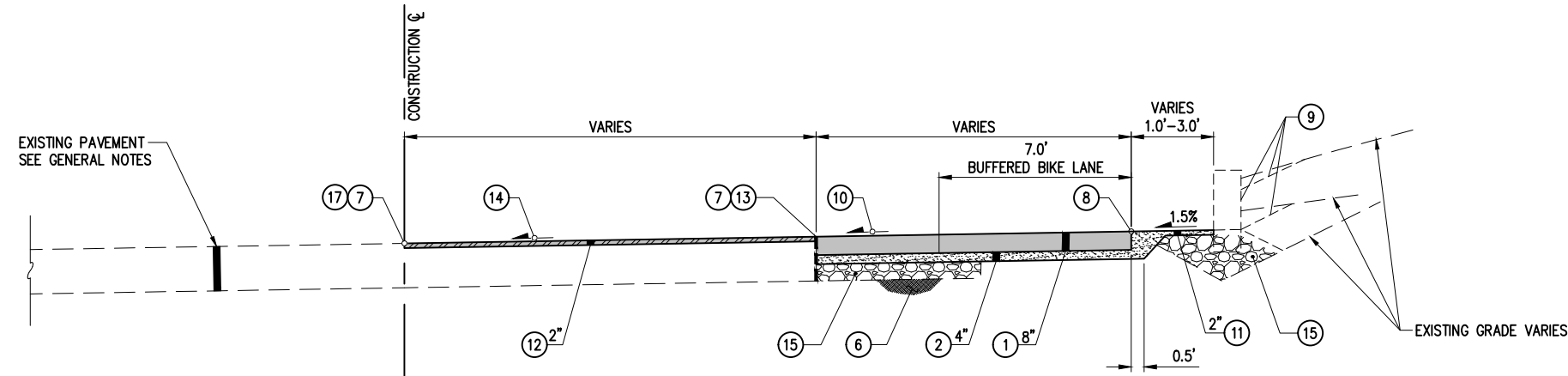
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

80TH AVE NE, 79TH WAY NE & NE 122ND PL

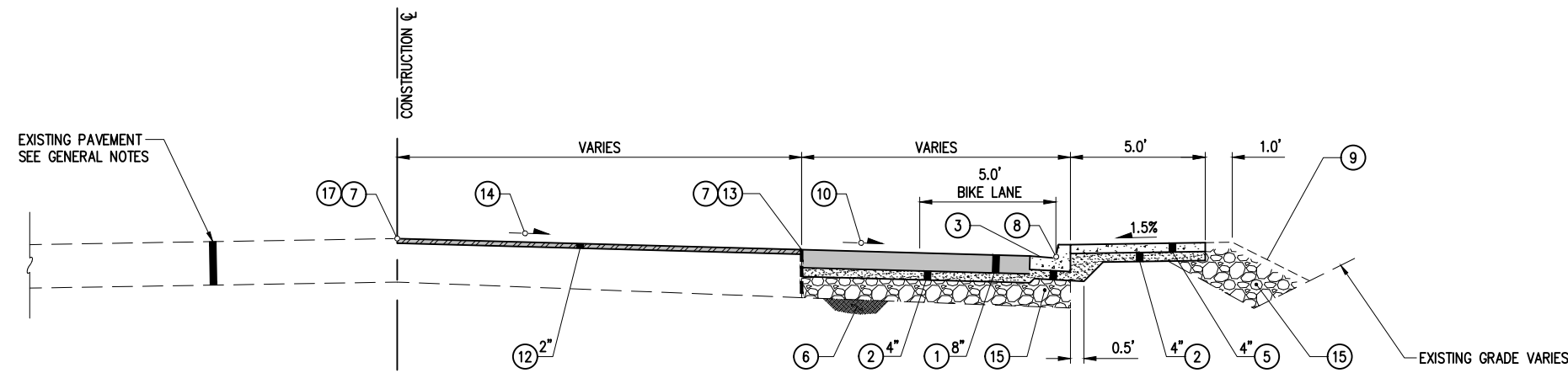
**ALIGNMENT & SURVEY CONTROL PLAN**

REFERENCE SHEET NO.  
SHEET 3 OF 161 SHEETS

September 16, 2023 - 6:59 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\SEC01.DWG - Layout Name: TYP SEC01



**TYPICAL SECTION A**  
 JUANITA DR  
 ~STA 12+90-15+40



**TYPICAL SECTION B**  
 JUANITA DR  
 ~STA 16+00-18+00

**SECTION GENERAL NOTES**

1. EXISTING PAVEMENT SECTION DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS.
2. SIDEWALK LAYOUT AND EDGE TREATMENT VARIES, REFER TO ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, LANDSCAPE PLAN SHEETS 74-81, AND RESTORATION TABLE SHEET 81 FOR MORE INFORMATION.
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
4. FOR UNSUITABLE FOUNDATION EXCAVATION AND REPAIR, IF ENCOUNTERED, SEE DETAIL 3 SHEET 8.
5. REFER TO SPECIAL PROVISIONS FOR TEMPORARY HMA ROADWAY REQUIREMENTS.
6. SIDEWALK SHALL BE POURED UP TO FACE OF WALL WHERE PRESENT. INSTALL EXPANSION JOINT BETWEEN FACE OF WALL AND BACK OF SIDEWALK.

**SECTION CONSTRUCTION NOTES**

- ① HMA CL 1/2" PG 58H-22, 4" MAX LIFT
- ② CRUSHED SURFACING TOP COURSE
- ③ CEMENT CONC TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- ④ NOT USED
- ⑤ CEMENT CONC SIDEWALK PER C.O.K. STD CK-R.23
- ⑥ COMPACTED SUBGRADE
- ⑦ MATCH EXISTING GRADE
- ⑧ HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY PLANS SHEETS 33-46
- ⑨ SEE ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, AND RESTORATION TABLE SHEET 81 FOR EDGE RESTORATION. FOR DAYLIGHT SLOPES PROVIDE 1.0' FLAT BENCH PRIOR TO MAX 2:1 SLOPE
- ⑩ CROWN AND SUPER CROSS SLOPES VARY, SEE ROADWAY PLAN SHEETS 33-46.
- ⑪ CRUSHED SURFACING TOP COURSE FOR SHOULDER
- ⑫ GRIND AND OVERLAY
- ⑬ FULL DEPTH SAWCUT, DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS
- ⑭ MATCH EXISTING ROADWAY CROSS SLOPE
- ⑮ GRAVEL BORROW FILL, SEE DETAIL 3 SHEET 8 FOR UNSUITABLE FOUNDATION REPAIR IF REQUIRED
- ⑯ CHAIN LINK FENCE PER ROADWAY PLAN SHEETS 33-46
- ⑰ EXTEND GRIND & OVERLAY AT CENTERLINE AS REQUIRED TO COMPLETELY REMOVE EXISTING DOUBLE YELLOW CENTERLINE

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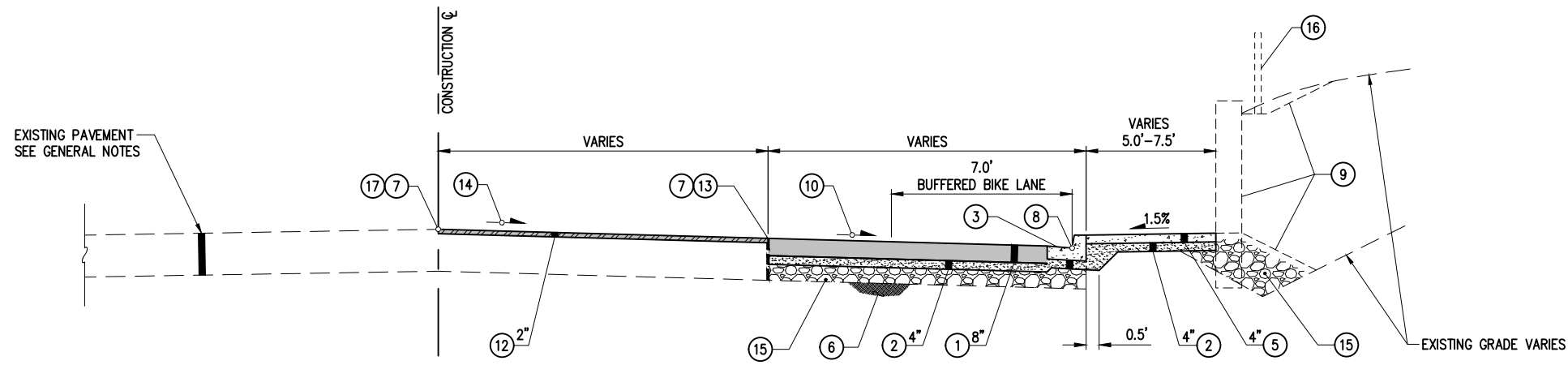
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

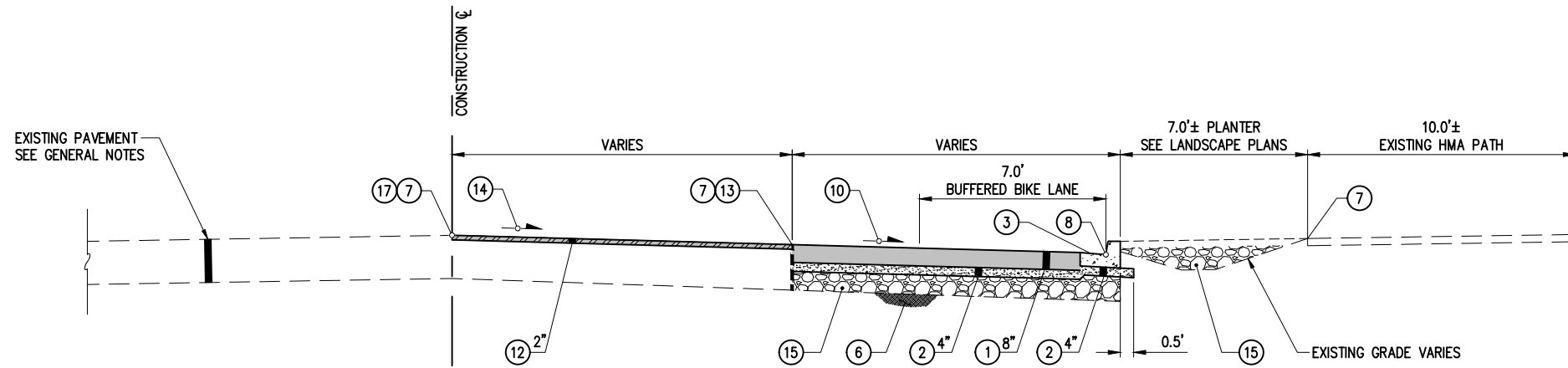
**TYPICAL SECTIONS**

REFERENCE SHEET NO.
SHEET 5 OF 161 SHEETS

September 16, 2023 - 6:59 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\SEC01.DWG - Layout Name: TYP\_SEC02



**TYPICAL SECTION C**  
 JUANITA DR  
 ~STA 27+50-32+40  
 ~STA 36+00-54+35  
 ~STA 58+30-61+70



**TYPICAL SECTION D**  
 JUANITA DR  
 ~STA 32+40-35+20

**SECTION GENERAL NOTES**

1. EXISTING PAVEMENT SECTION DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS.
2. SIDEWALK LAYOUT AND EDGE TREATMENT VARIES, REFER TO ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, LANDSCAPE PLAN SHEETS 74-81, AND RESTORATION TABLE SHEET 81 FOR MORE INFORMATION.
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
4. FOR UNSUITABLE FOUNDATION EXCAVATION AND REPAIR, IF ENCOUNTERED, SEE DETAIL 3 SHEET 8.
5. REFER TO SPECIAL PROVISIONS FOR TEMPORARY HMA ROADWAY REQUIREMENTS.
6. SIDEWALK SHALL BE POURED UP TO FACE OF WALL WHERE PRESENT. INSTALL EXPANSION JOINT BETWEEN FACE OF WALL AND BACK OF SIDEWALK.

**SECTION CONSTRUCTION NOTES**

- ① HMA CL 1/2" PG 58H-22, 4" MAX LIFT
- ② CRUSHED SURFACING TOP COURSE
- ③ CEMENT CONC TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- ④ NOT USED
- ⑤ CEMENT CONC SIDEWALK PER C.O.K. STD CK-R.23
- ⑥ COMPACTED SUBGRADE
- ⑦ MATCH EXISTING GRADE
- ⑧ HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY PLANS SHEETS 33-46
- ⑨ SEE ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, AND RESTORATION TABLE SHEET 81 FOR EDGE RESTORATION. FOR DAYLIGHT SLOPES PROVIDE 1.0' FLAT BENCH PRIOR TO MAX 2:1 SLOPE
- ⑩ CROWN AND SUPER CROSS SLOPES VARY, SEE ROADWAY PLAN SHEETS 33-46.
- ⑪ CRUSHED SURFACING TOP COURSE FOR SHOULDER
- ⑫ GRIND AND OVERLAY
- ⑬ FULL DEPTH SAWCUT, DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS
- ⑭ MATCH EXISTING ROADWAY CROSS SLOPE
- ⑮ GRAVEL BORROW FILL, SEE DETAIL 3 SHEET 8 FOR UNSUITABLE FOUNDATION REPAIR IF REQUIRED
- ⑯ CHAIN LINK FENCE PER ROADWAY PLAN SHEETS 33-46
- ⑰ EXTEND GRIND & OVERLAY AT CENTERLINE AS REQUIRED TO COMPLETELY REMOVE EXISTING DOUBLE YELLOW CENTERLINE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: EEO	9/2023



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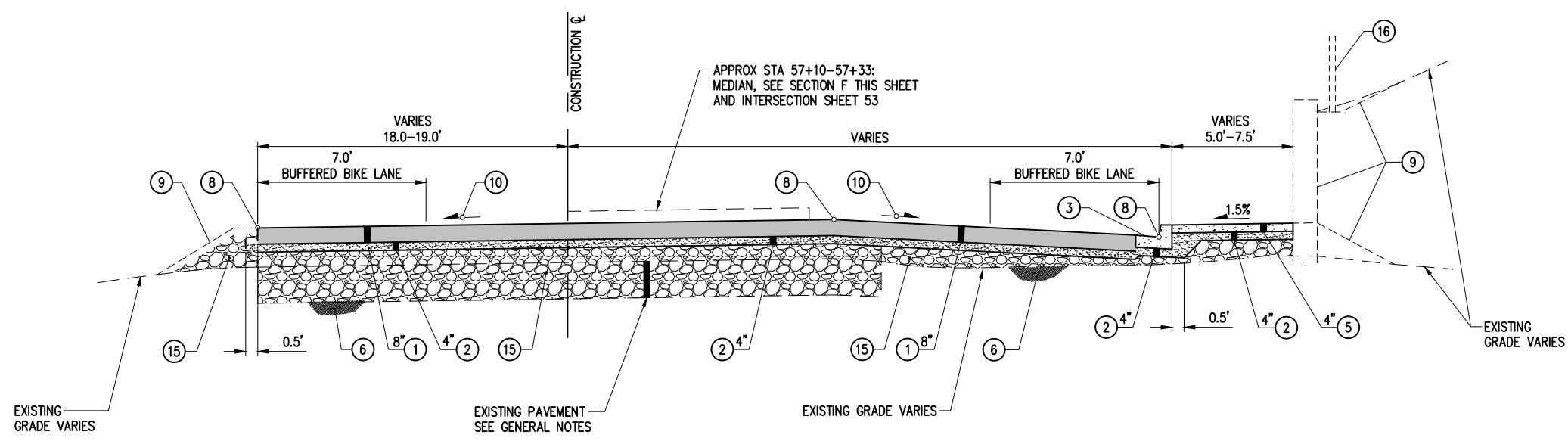
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

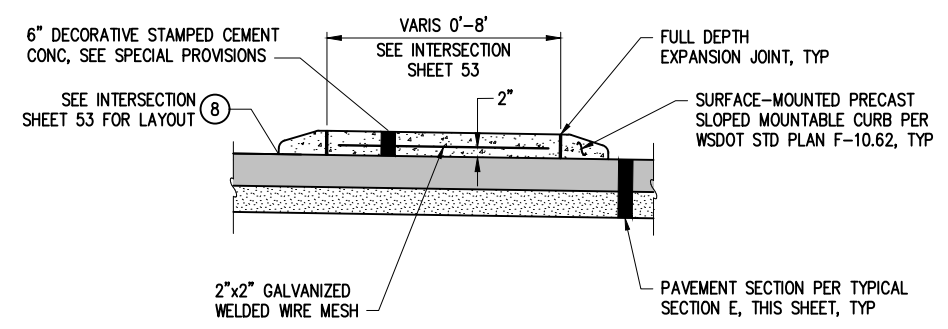
**TYPICAL SECTIONS**

REFERENCE SHEET NO.  
 SHEET 6 OF 161 SHEETS

September 16, 2023 - 6:59 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS CONTRACT\19065\SEC01.DWG - Layout Name: TYP SEC03



**TYPICAL SECTION E**  
JUANITA DR  
~STA 54+35-58+30



**TYPICAL SECTION F**  
JUANITA DR  
~STA 57+10-57+33

**SECTION GENERAL NOTES**

1. EXISTING PAVEMENT SECTION DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS.
2. SIDEWALK LAYOUT AND EDGE TREATMENT VARIES, REFER TO ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, LANDSCAPE PLAN SHEETS 74-81, AND RESTORATION TABLE SHEET 81 FOR MORE INFORMATION.
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
4. FOR UNSUITABLE FOUNDATION EXCAVATION AND REPAIR, IF ENCOUNTERED, SEE DETAIL 3 SHEET 8.
5. REFER TO SPECIAL PROVISIONS FOR TEMPORARY HMA ROADWAY REQUIREMENTS.
6. SIDEWALK SHALL BE POURED UP TO FACE OF WALL WHERE PRESENT. INSTALL EXPANSION JOINT BETWEEN FACE OF WALL AND BACK OF SIDEWALK.

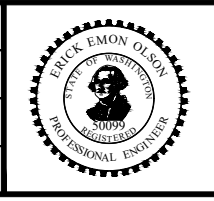
**SECTION CONSTRUCTION NOTES**

- ① HMA CL 1/2" PG 58H-22, 4" MAX LIFT
- ② CRUSHED SURFACING TOP COURSE
- ③ CEMENT CONC TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- ④ NOT USED
- ⑤ CEMENT CONC SIDEWALK PER C.O.K. STD CK-R.23
- ⑥ COMPACTED SUBGRADE
- ⑦ MATCH EXISTING GRADE
- ⑧ HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY PLANS SHEETS 33-46
- ⑨ SEE ROADWAY PLAN SHEETS 33-46, WALL PLAN SHEETS 55-63, AND RESTORATION TABLE SHEET 81 FOR EDGE RESTORATION. FOR DAYLIGHT SLOPES PROVIDE 1.0' FLAT BENCH PRIOR TO MAX 2:1 SLOPE
- ⑩ CROWN AND SUPER CROSS SLOPES VARY, SEE ROADWAY PLAN SHEETS 33-46.
- ⑪ CRUSHED SURFACING TOP COURSE FOR SHOULDER
- ⑫ GRIND AND OVERLAY
- ⑬ FULL DEPTH SAWCUT, DEPTH AND MATERIAL VARIES, SEE SITE PREP PLAN SHEETS 9-16 AND SPECIAL PROVISIONS
- ⑭ MATCH EXISTING ROADWAY CROSS SLOPE
- ⑮ GRAVEL BORROW FILL, SEE DETAIL 3 SHEET 8 FOR UNSUITABLE FOUNDATION REPAIR IF REQUIRED
- ⑯ CHAIN LINK FENCE PER ROADWAY PLAN SHEETS 33-46
- ⑰ EXTEND GRIND & OVERLAY AT CENTERLINE AS REQUIRED TO COMPLETELY REMOVE EXISTING DOUBLE YELLOW CENTERLINE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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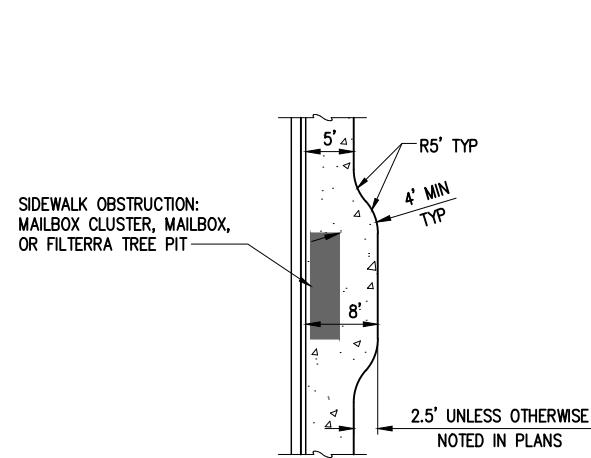
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

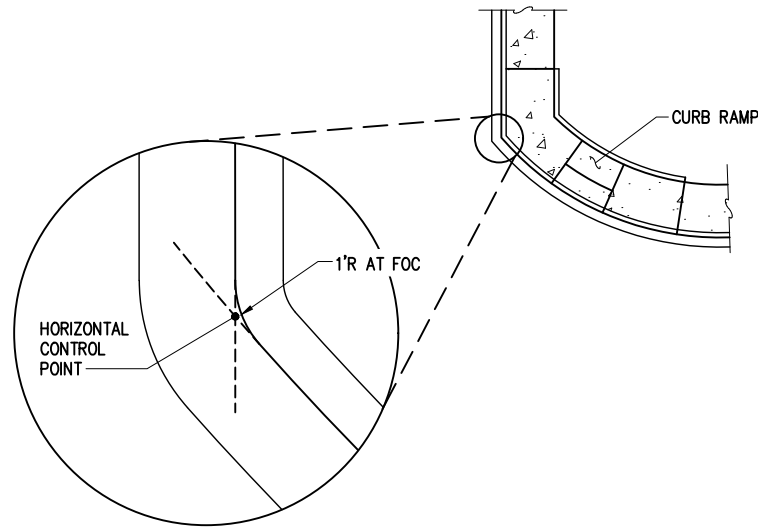
**TYPICAL SECTIONS**

REFERENCE SHEET NO.
SHEET 7 OF 161 SHEETS

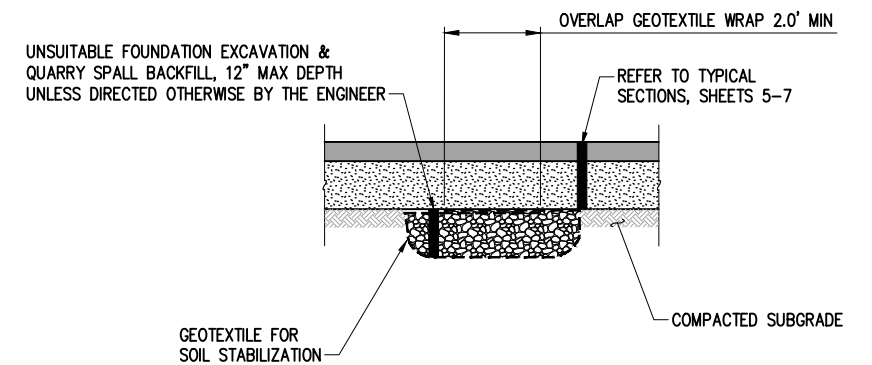
September 16, 2023 - 6:59 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\DET01.DWG - Layout Name: TYP DET01



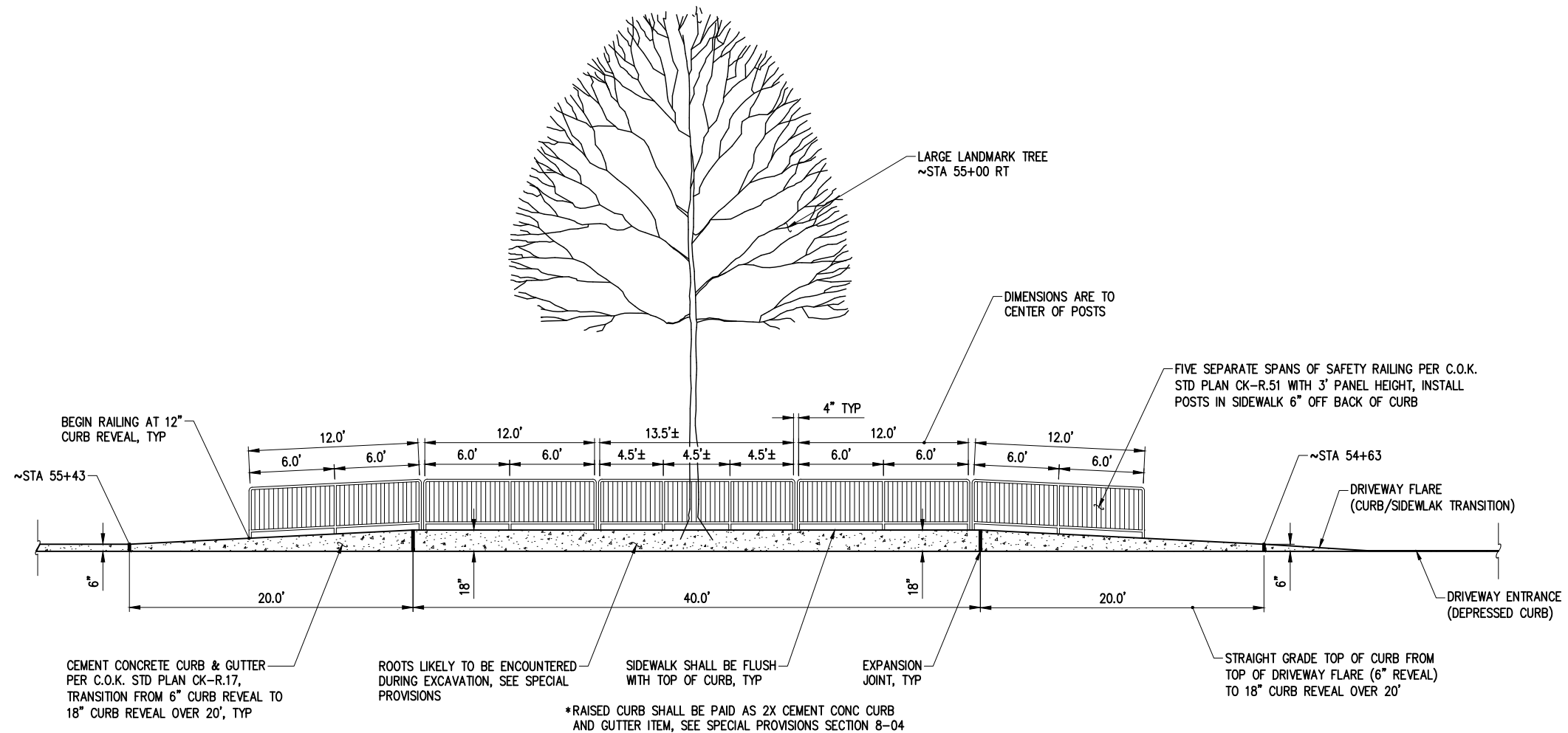
**PEDESTRIAN PATH WIDENING DETAIL** 1  
NTS



**CURB RETURN RADIUS DETAIL** 2  
NTS



**UNSUITABLE FOUNDATION REPAIR DETAIL** 3  
NTS



**RAISED CURB & SIDEWALK DETAIL** 4  
NTS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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FUNDING NO. 19065

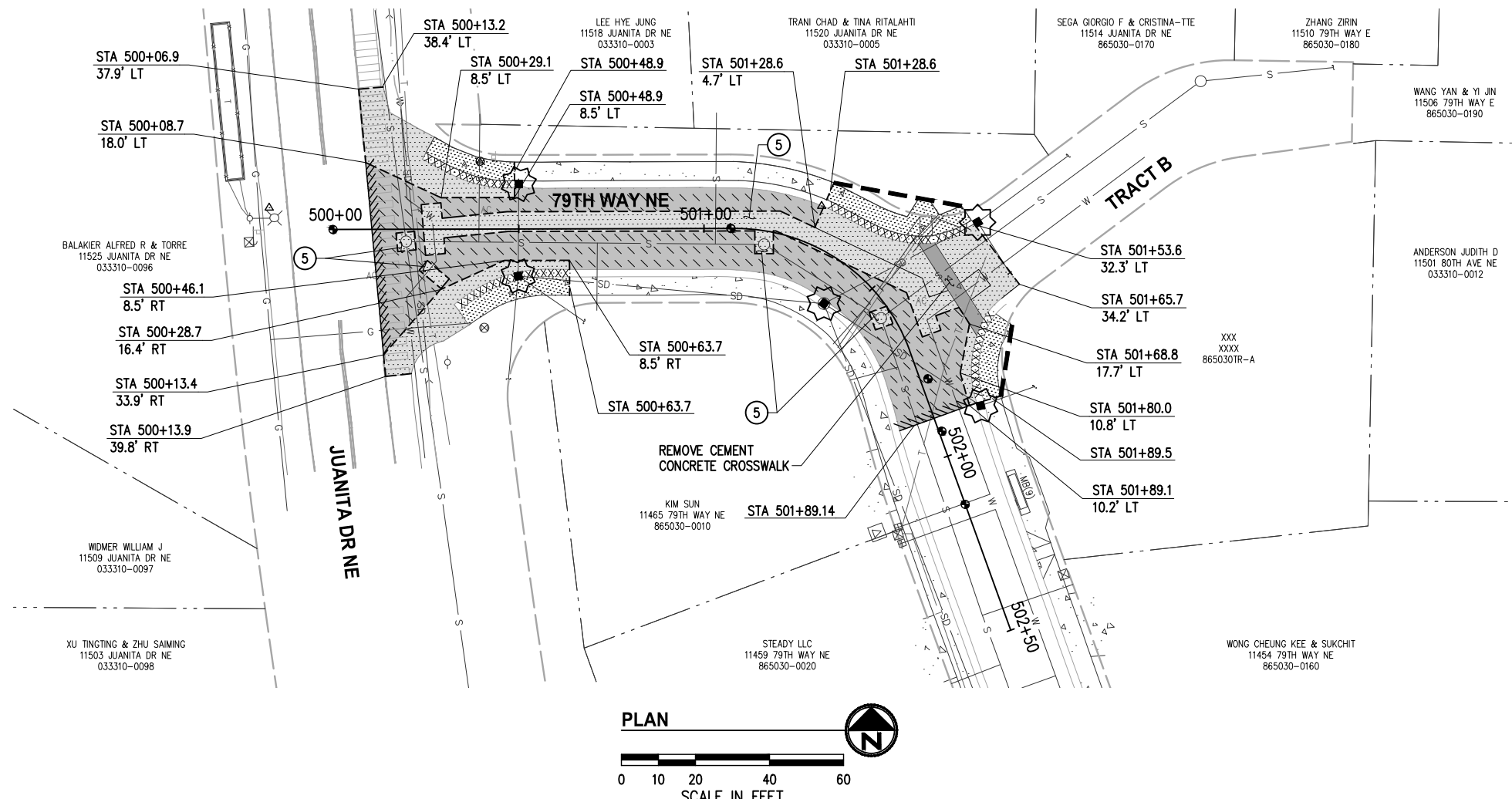
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

**TYPICAL DETAILS**

REFERENCE SHEET NO.
SHEET 8 OF 161 SHEETS



September 16, 2023 - 7:00 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS CONTRACT\19065\SP01.DWG - Layout Name: SP (01) STA 500+00 TO STA 502+50



**ALL COSTS ASSOCIATED WITH  
 SAWCUTTING & REMOVALS ON THIS SHEET  
 ARE CONSIDERED INCIDENTAL TO THE  
 VARIOUS BID ITEMS IN SCHEDULE B AND  
 WILL NOT BE MEASURED FOR PAYMENT**

**GENERAL NOTES**

1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
3. ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
4. MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
5. ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
6. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
7. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
8. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- 5 SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147

**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- [Hatched Box] REMOVE CEMENT CONC SIDEWALK
- [Hatched Box] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Hatched Box] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Hatched Box] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Hatched Box] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- x-x-x-x-x-x-x-x-x-x- REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Hatched Box] BUTT JOINT
- [Dashed Line] CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- [Circle with X] HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- [Circle with Square] HIGH VISIBILITY FENCE
- [Circle with X] TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- [Star] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- [Star] REMOVE CONIFEROUS / DECIDUOUS TREE
- [#] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023

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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

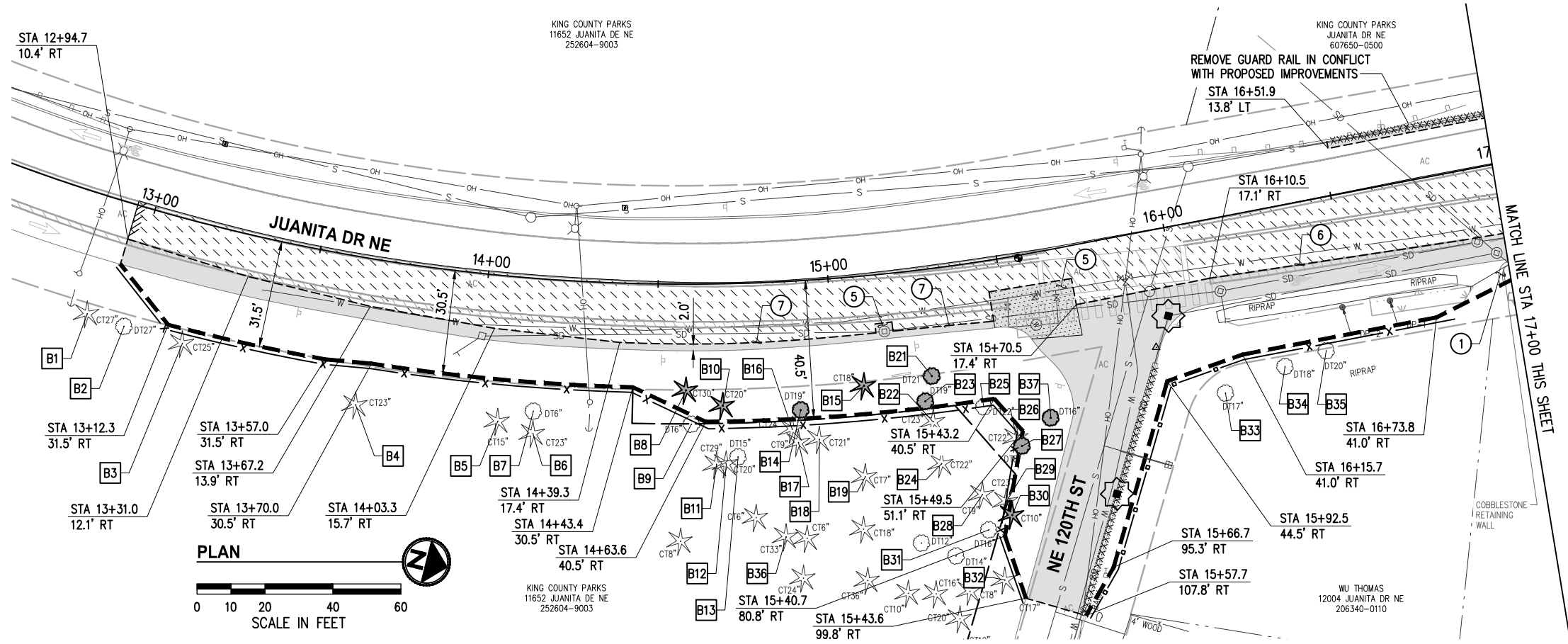
STA 500+00 TO STA 502+50

**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO.

SHEET 9 OF 161 SHEETS

September 16, 2023 - 7:02 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\SP02.DWG - Layout Name: SP (01) STA 12+50 TO STA 21+50

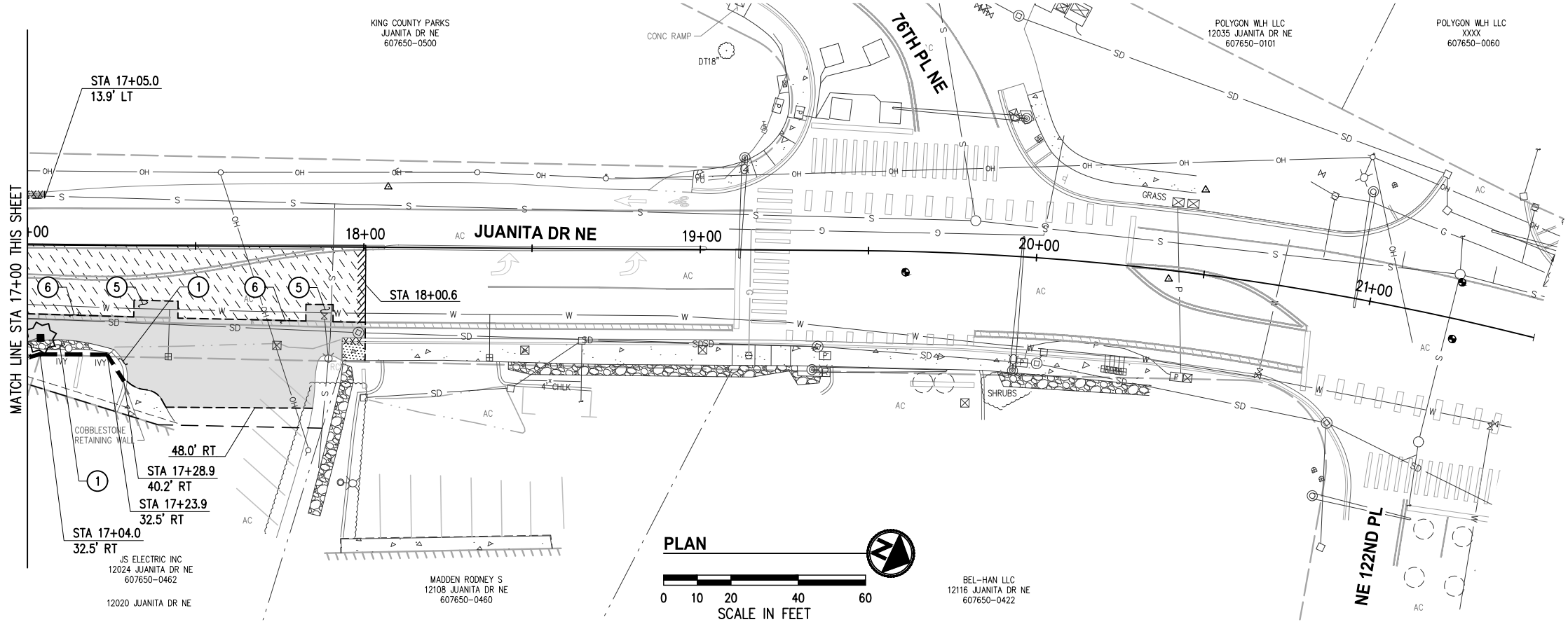


**GENERAL NOTES**

1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
3. ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
4. MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
5. ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
6. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
7. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
8. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ① REMOVE RETAINING/LANDSCAPE/ROCKERY WALL IN CONFLICT WITH PROPOSED IMPROVEMENTS
- ⑤ SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
- ⑥ SAWCUT ALONG EXISTING FOG LINE
- ⑦ SAWCUT 2' FROM EXISTING EDGE OF PAVEMENT



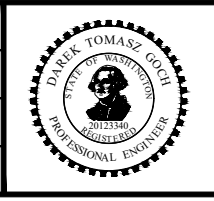
**LEGEND**

- RIGHT OF WAY
- - - TEMPORARY CONSTRUCTION EASEMENT
- [Pattern] REMOVE CEMENT CONC SIDEWALK
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Pattern] BUTT JOINT
- [Pattern] CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- [Symbol] HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- [Symbol] HIGH VISIBILITY FENCE
- [Symbol] TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- [Symbol] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- [Symbol] REMOVE CONIFEROUS / DECIDUOUS TREE
- [Symbol] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
 STA 12+50 TO STA 21+50  
**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO.
SHEET 10 OF 161 SHEETS

September 16, 2023 - 7:03 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065SP01.DWG - Layout Name: SP (02) NE 122ND PL & 80TH AVE NE

NG JENNY KUN & CRAIN ADAM  
7840 NE 122ND PL  
607650-0380

NG JENNY KUN & CRAIN ADAM  
N/A  
607650-0368

FORHAN SUSAN G  
12225 80TH AVE NE  
607650-0364

N 262240.12  
E 1295352.75

N 262283.66  
E 1295372.33

WU PENG & YIYUE SONG  
8004 NE 123RD ST  
798090-0071

JAF ARZADEH SHINA GHONCHEH  
8018 NE 123RD ST  
798090-0062

HO LAP SUN  
7851 NE 122ND PL  
607650-0420

XXX  
XXXX  
952235TR-A

NE 122ND PL

N 262234.30  
E 1295359.02

N 262265.46  
E 1295390.52

80TH AVE NE

NE 123RD ST

**GENERAL NOTES**

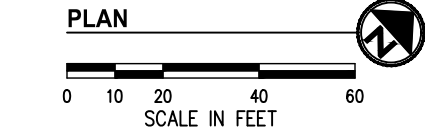
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
- FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
- ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
- MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
- ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
- ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
- SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
- EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- (5) SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
- (8) CLEAR & GRUB AS REQUIRED TO INSTALL WATER IMPROVEMENTS, SEE WATER SHEETS 135-147

**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- [Pattern] REMOVE CEMENT CONC SIDEWALK
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- XXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Pattern] BUTT JOINT
- [Pattern] CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- [Symbol] HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- [Symbol] HIGH VISIBILITY FENCE
- [Symbol] TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- [Symbol] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- [Symbol] REMOVE CONIFEROUS / DECIDUOUS TREE
- [Symbol] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS



**ALL COSTS ASSOCIATED WITH SAWCUTTING AND REMOVALS ON THIS SHEET ARE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS IN SCHEDULE B AND WILL NOT BE MEASURED FOR PAYMENT**

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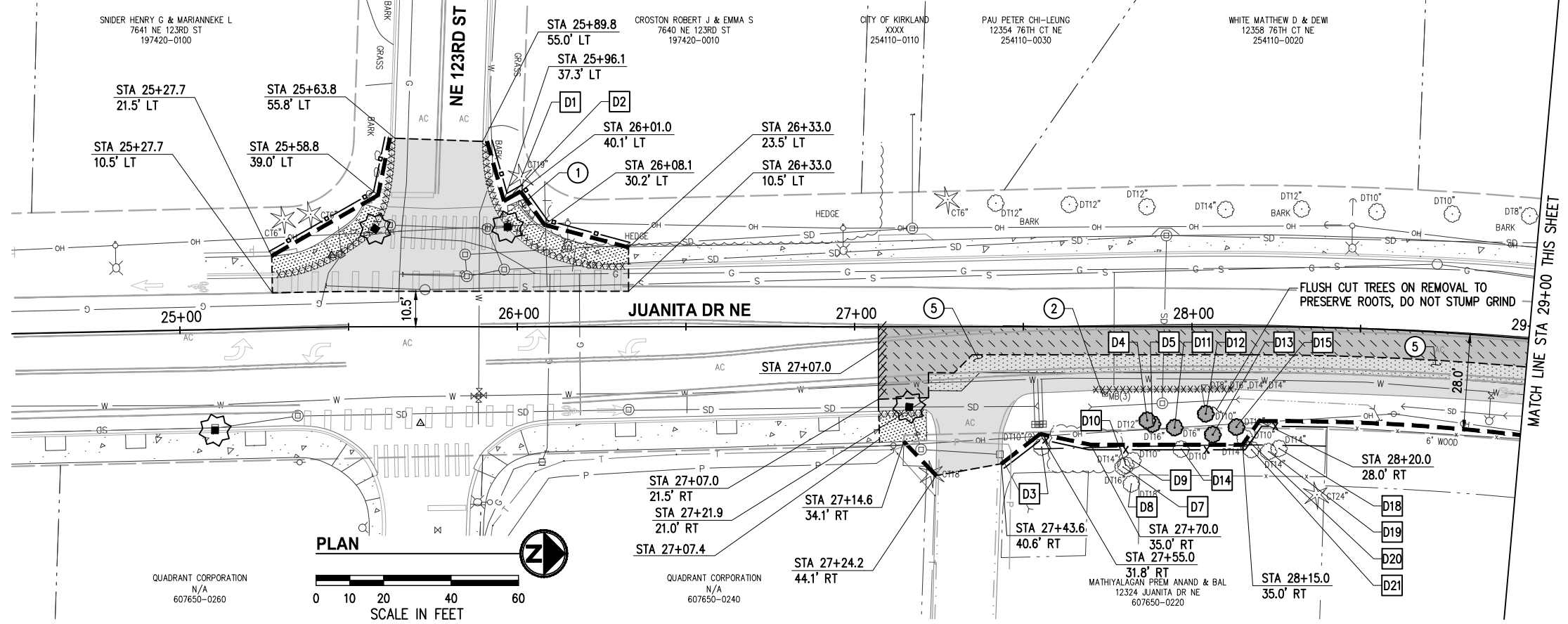
CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
  
NE 122ND PL & 80TH AVE NE  
**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO.
SHEET 11 OF 161 SHEETS

September 16, 2023 - 7:04 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SP02.DWG - Layout Name: SP (02) STA 24+50 TO STA 33+50



**GENERAL NOTES**

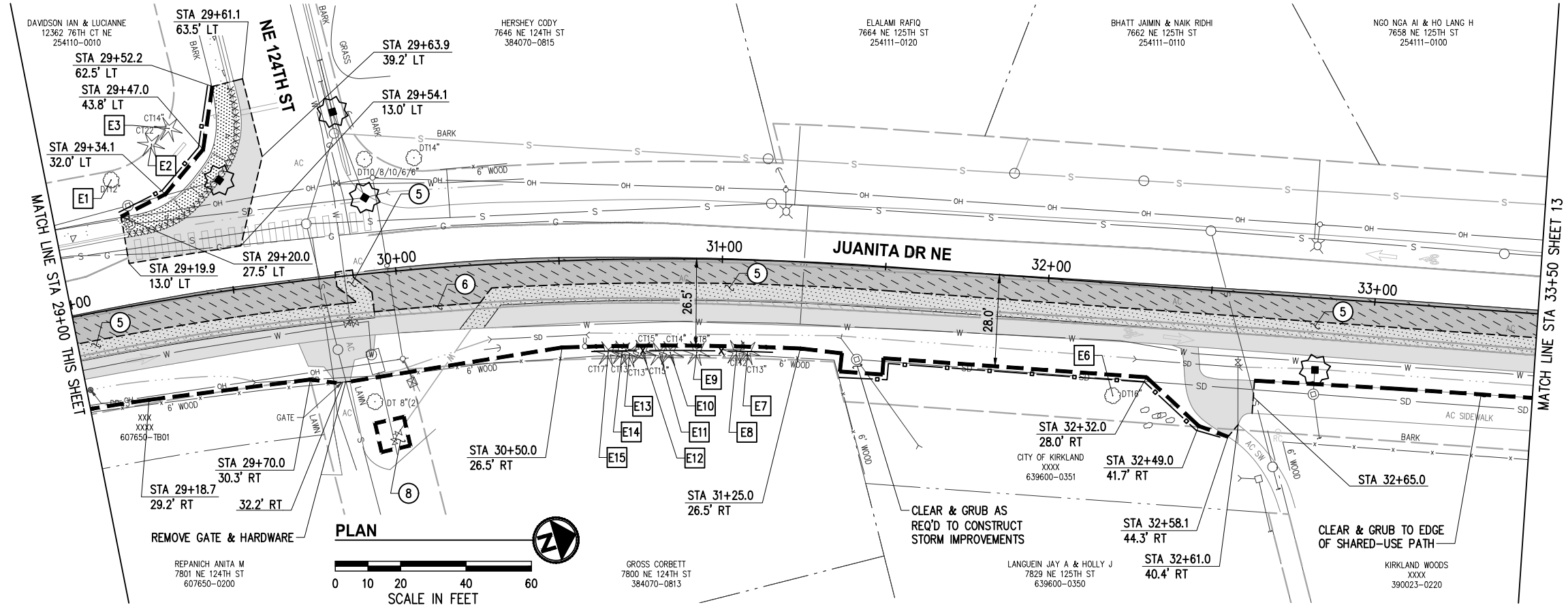
1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
3. ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
4. MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
5. ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
6. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
7. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
8. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ① REMOVE RETAINING/LANDSCAPE/ROCKERY WALL IN CONFLICT WITH PROPOSED IMPROVEMENTS
- ② REMOVE MAILBOX ASSEMBLY AND/OR CLUSTER, SALVAGE MAILBOX(ES) FOR REINSTALLATION
- ⑤ SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
- ⑥ SAWCUT ALONG EXISTING FOG LINE
- ⑧ CLEAR & GRUB AS REQUIRED TO INSTALL WATER IMPROVEMENTS, SEE WATER SHEETS 135-147

**LEGEND**

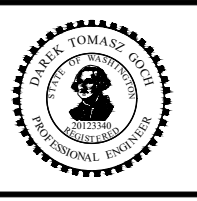
- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- [Pattern] REMOVE CEMENT CONC SIDEWALK
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Pattern] BUTT JOINT
- CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- HIGH VISIBILITY FENCE
- x TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- ☆ INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- ☆ REMOVE CONIFEROUS / DECIDUOUS TREE
- # TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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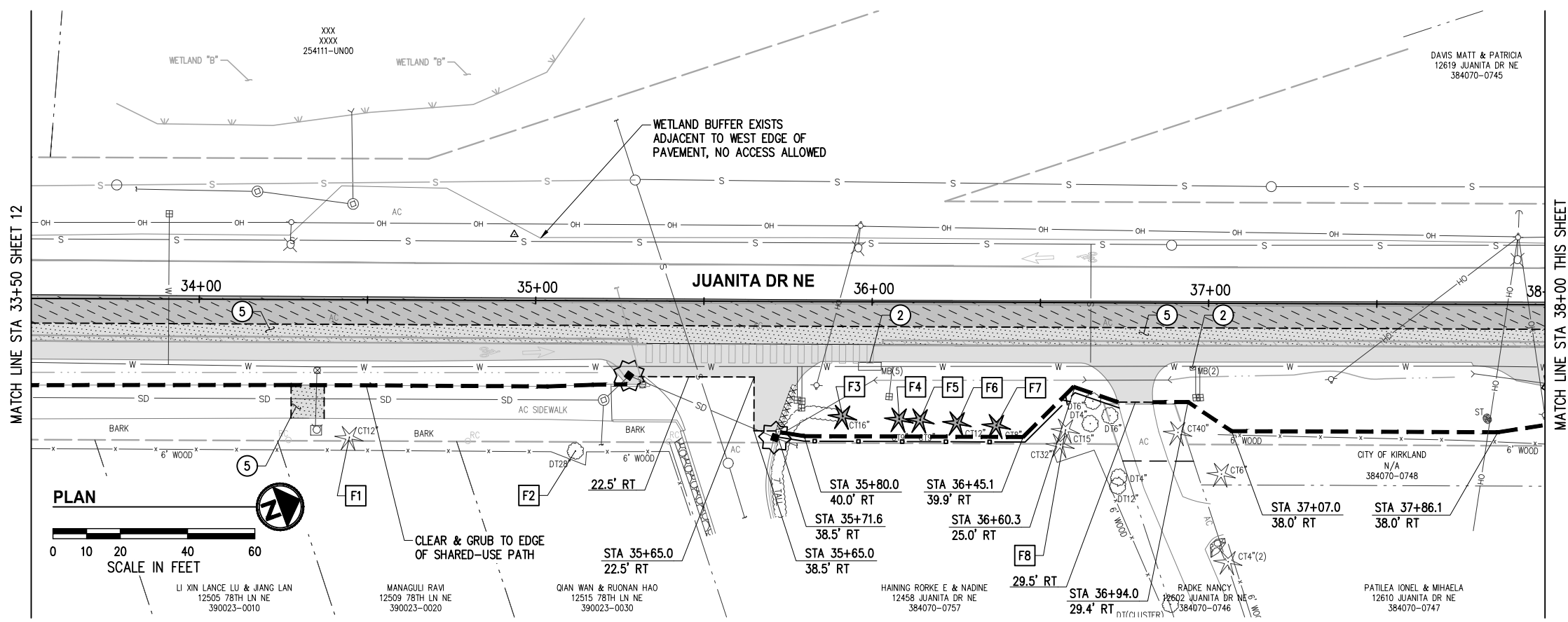
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 DEPARTMENT OF PUBLIC WORKS  
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 (425) 587-3800 www.kirklandwa.gov

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
 STA 24+50 TO STA 33+50  
**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO.
SHEET 12 OF 161 SHEETS

FUNDING NO. 19065

September 16, 2023 - 7:04 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SP02.DWG - Layout Name: SP (03) STA 33+50 TO STA 42+50

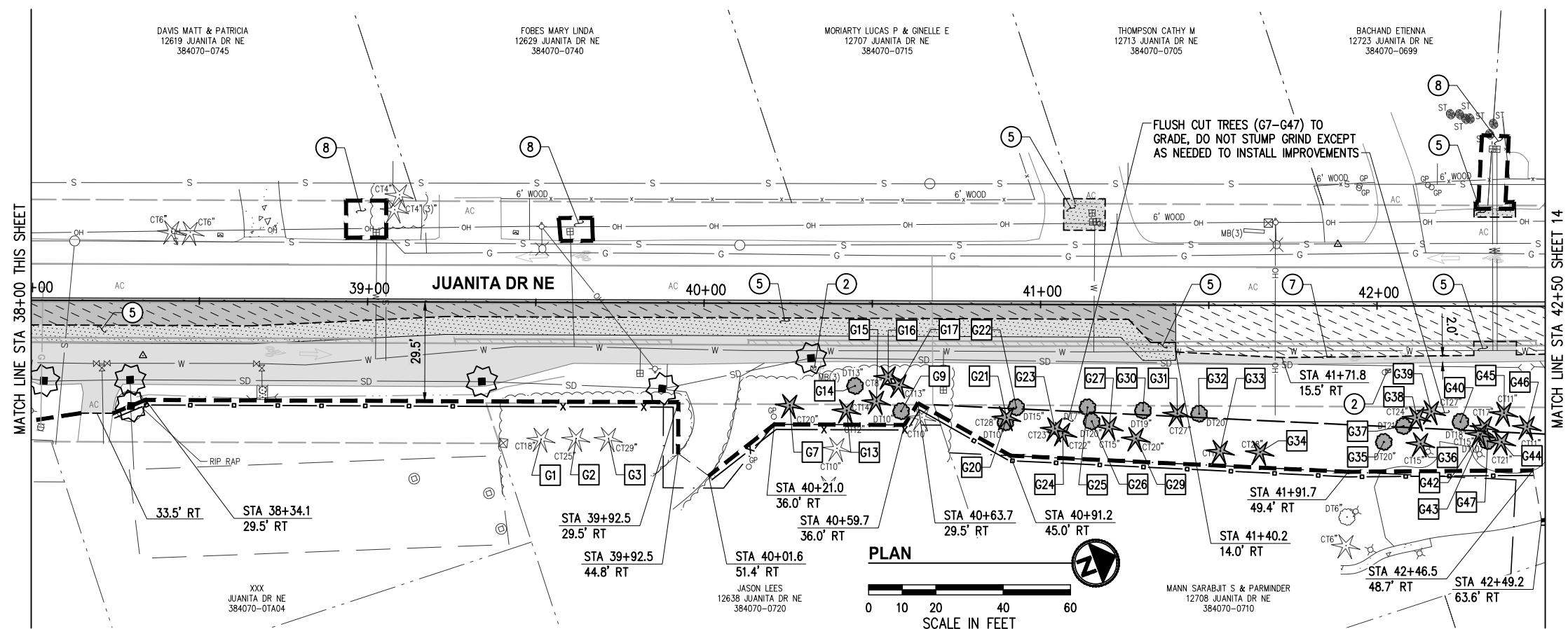


**GENERAL NOTES**

1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
3. ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
4. MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
5. ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
6. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
7. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
8. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ② REMOVE MAILBOX ASSEMBLY AND/OR CLUSTER, SALVAGE MAILBOX(ES) FOR REINSTALLATION
- ⑤ SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
- ⑦ SAWCUT 2' FROM EXISTING EDGE OF PAVEMENT
- ⑧ CLEAR & GRUB AS REQUIRED TO INSTALL WATER IMPROVEMENTS, SEE WATER SHEETS 135-147



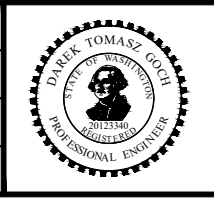
**LEGEND**

- RIGHT OF WAY
- - - TEMPORARY CONSTRUCTION EASEMENT
- [Pattern] REMOVE CEMENT CONC SIDEWALK
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Pattern] BUTT JOINT
- - - CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- HIGH VISIBILITY FENCE
- x TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- [Symbol] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- [Symbol] REMOVE CONIFEROUS / DECIDUOUS TREE
- [Symbol] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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FUNDING NO. 19065

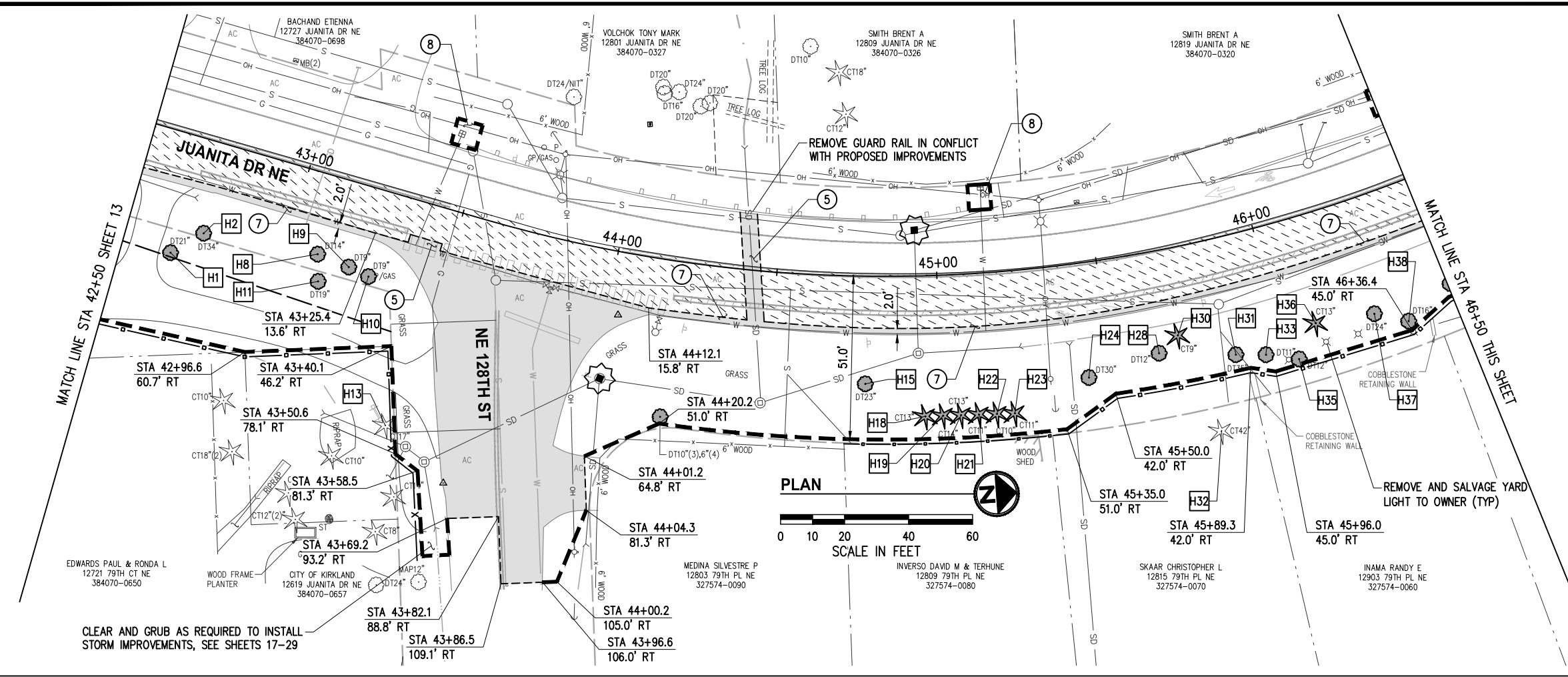
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 42+50

**SITE PREPARATION & TESC PLAN**

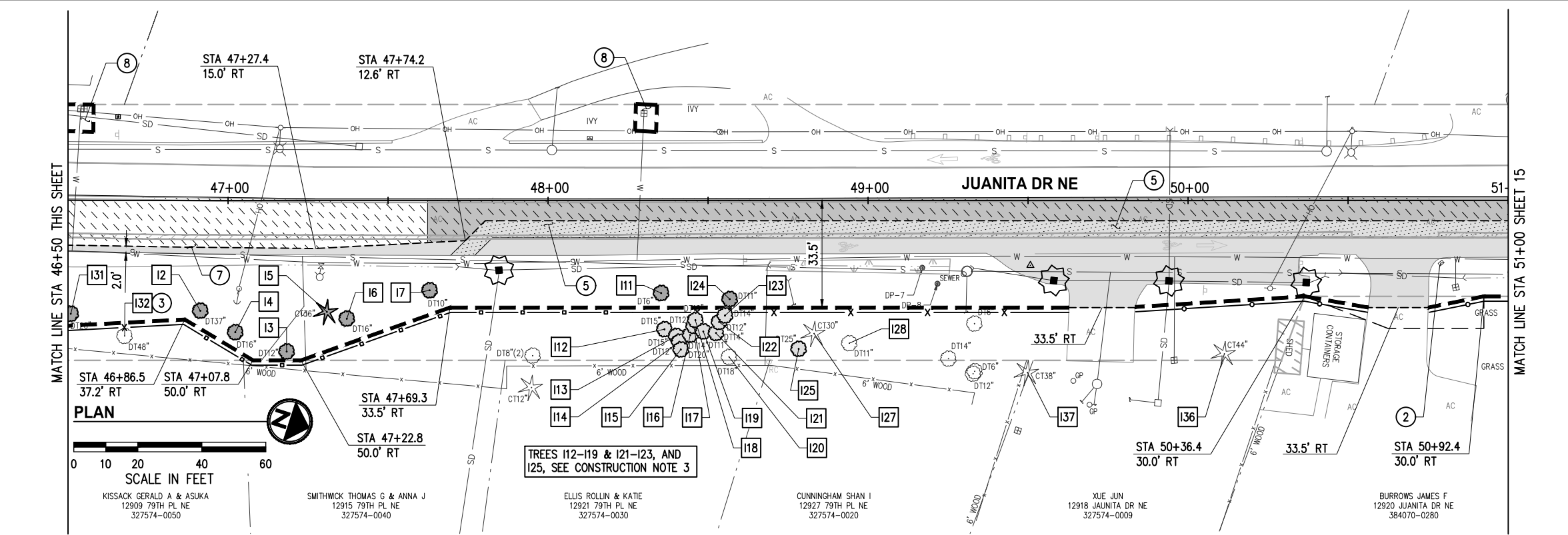
REFERENCE SHEET NO. SHEET 13 OF 161 SHEETS

September 16, 2023 - 7:04 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SP02.DWG - Layout Name: SP (04) STA 42+50 TO STA 51+00



- ### GENERAL NOTES
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
  - FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
  - ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
  - MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
  - ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
  - ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
  - SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- REMOVE MAILBOX ASSEMBLY AND/OR CLUSTER, SALVAGE MAILBOX(ES) FOR REINSTALLATION
  - CONSTRUCT WILDLIFE SNAG; SEE SPECIAL PROVISIONS
  - SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
  - SAWCUT 2' FROM EXISTING EDGE OF PAVEMENT
  - CLEAR & GRUB AS REQUIRED TO INSTALL WATER IMPROVEMENTS, SEE WATER SHEETS 135-147

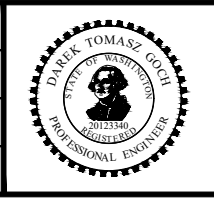


- ### LEGEND
- RIGHT OF WAY
  - - - TEMPORARY CONSTRUCTION EASEMENT
  - [Hatched Box] REMOVE CEMENT CONC SIDEWALK
  - [Dotted Box] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
  - [Cross-hatched Box] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
  - [Diagonal Lines Box] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
  - [Diagonal Lines Box] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
  - XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
  - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
  - /// BUTT JOINT
  - - - CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
  - HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
  - HIGH VISIBILITY FENCE
  - x TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
  - INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
  - ★ REMOVE CONIFEROUS / DECIDUOUS TREE
  - # TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

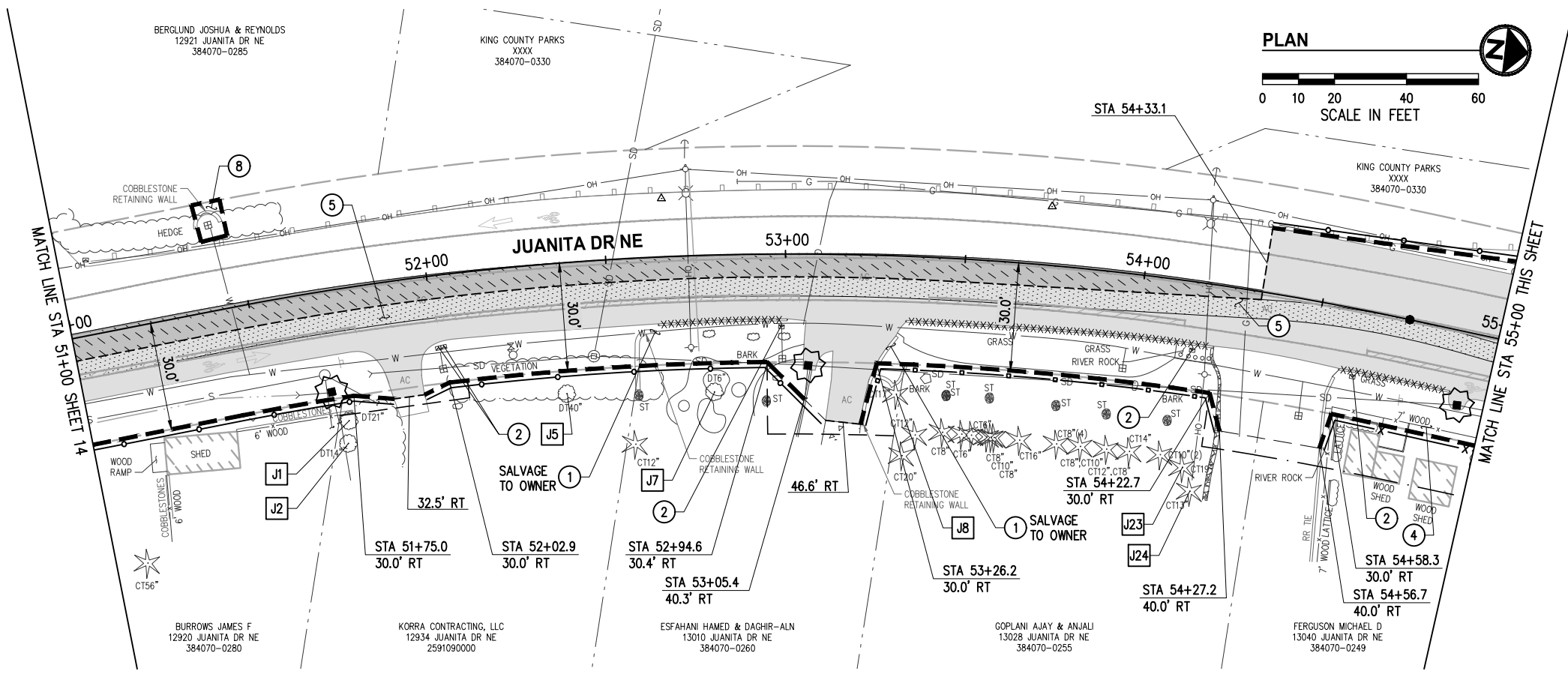
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 42+50 TO STA 51+00

**SITE PREPARATION & TESC PLAN**

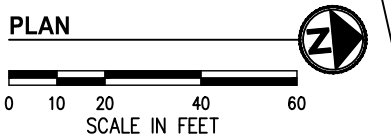
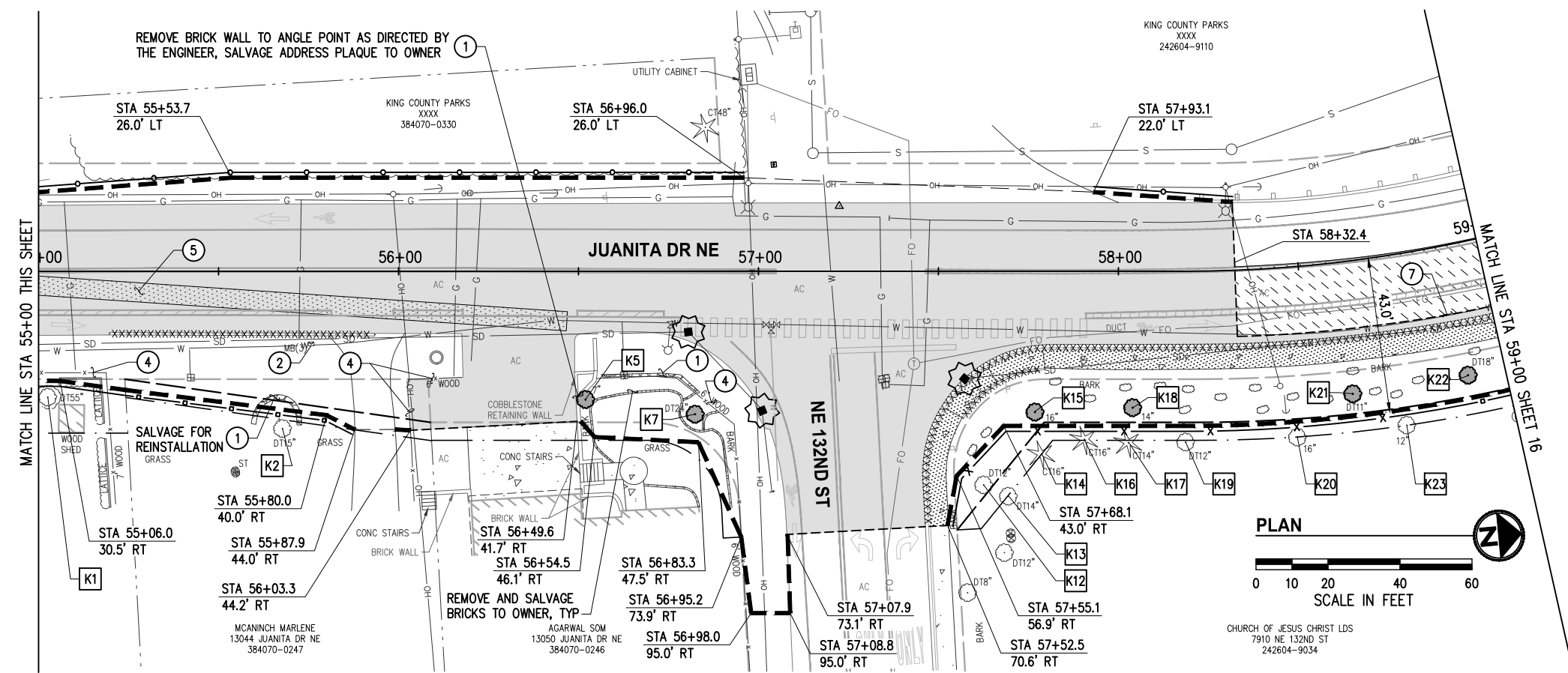
REFERENCE SHEET NO.  
 SHEET 14 OF 161 SHEETS

September 16, 2023 - 7:04 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SP02.DWG - Layout Name: SP (05) STA 51+00 TO STA 59+00



- ### GENERAL NOTES
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
  - FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
  - ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
  - MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
  - ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
  - ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
  - SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- REMOVE RETAINING/LANDSCAPE/ROCKERY WALL IN CONFLICT WITH PROPOSED IMPROVEMENTS
  - REMOVE MAILBOX ASSEMBLY AND/OR CLUSTER, SALVAGE MAILBOX(ES) FOR REINSTALLATION
  - REMOVE FENCE IN CONFLICT WITH PROPOSED IMPROVEMENTS
  - SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO CONSTRUCT STORM, SEWER, & WATER IMPROVEMENTS; SEE STORM SHEETS 17-29 AND WATER & SEWER SHEETS 135-147
  - SAWCUT 2' FROM EXISTING EDGE OF PAVEMENT
  - CLEAR & GRUB AS REQUIRED TO INSTALL WATER IMPROVEMENTS, SEE WATER SHEETS 135-147

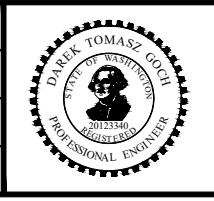


- ### LEGEND
- RIGHT OF WAY
  - - - TEMPORARY CONSTRUCTION EASEMENT
  - [Pattern] REMOVE CEMENT CONC SIDEWALK
  - [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
  - [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
  - [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
  - [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
  - XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
  - FULL DEPTH SAWCUT, LOCATIONS NOTED
  - BUTT JOINT
  - CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
  - HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
  - HIGH VISIBILITY FENCE
  - X TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
  - [Symbol] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
  - [Symbol] REMOVE CONIFEROUS / DECIDUOUS TREE
  - [Symbol] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 51+00 TO STA 59+00

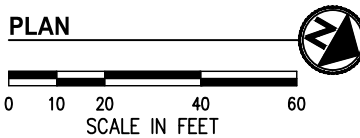
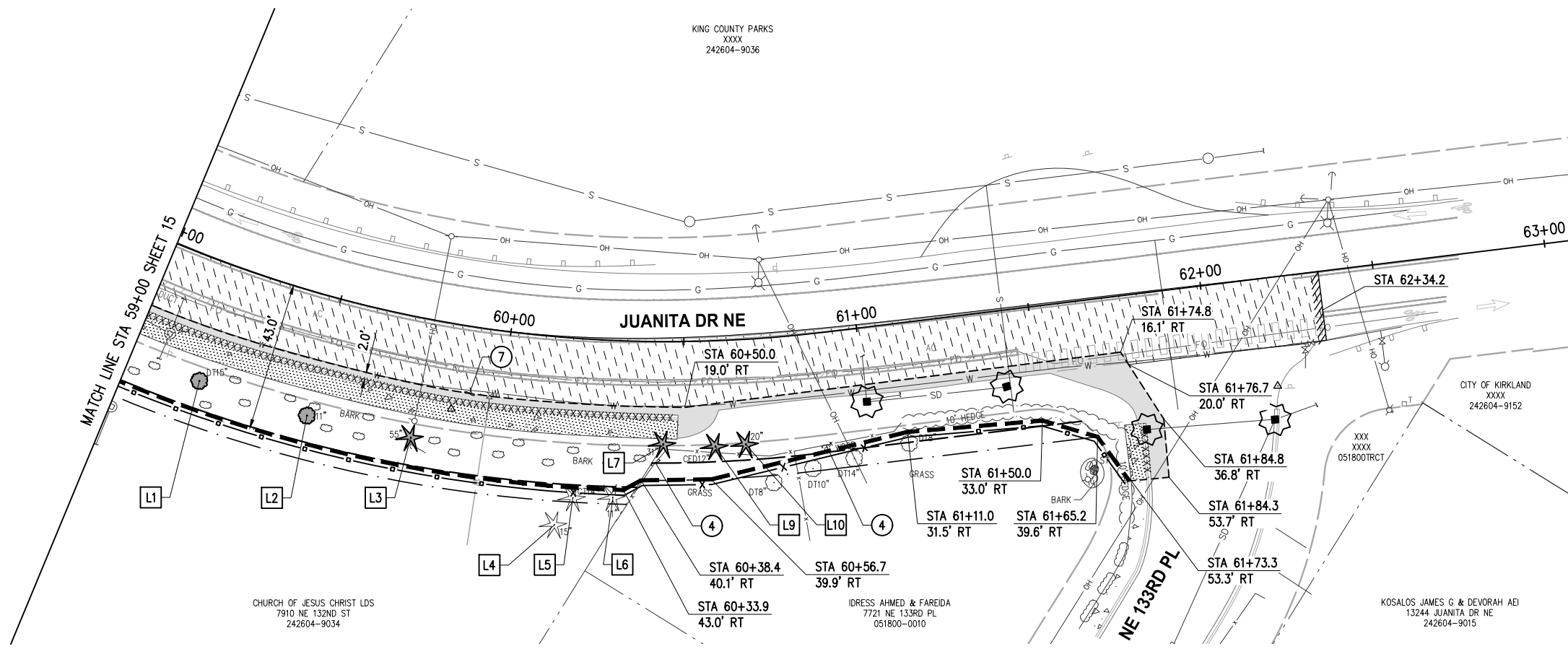
**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO.  
 SHEET 15 OF 161 SHEETS

September 16, 2023 - 7:04 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065SP02.DWG - Layout Name: SP (06) STA 59+00 TO STA 63+00

KING COUNTY PARKS  
XXXX  
242604-9036

MATCH LINE STA 59+00 SHEET 15



**GENERAL NOTES**

1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
3. ITEMS NOTED FOR REMOVAL SHALL BE DEMOLISHED, HAULED, AND DISPOSED OF AT CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
4. MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES, SEE SPECIAL PROVISIONS.
5. ASPHALT & CONCRETE REMOVAL LIMITS AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
6. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
7. SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
8. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ④ REMOVE FENCE IN CONFLICT WITH PROPOSED IMPROVEMENTS
- ⑦ SAWCUT 2' FROM EXISTING EDGE OF PAVEMENT

**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- [Pattern] REMOVE CEMENT CONC SIDEWALK
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED A
- [Pattern] REMOVE ASPHALT CONC AND UNDERLYING CEMENT CONC PAVEMENT WHERE PRESENT - PAID UNDER SCHED B
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED A
- [Pattern] 2" DEPTH PAVEMENT PLANING - PAID UNDER SCHED B
- XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- - - - - FULL DEPTH SAWCUT, LOCATIONS NOTED
- [Pattern] BUTT JOINT
- [Pattern] CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
- HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
- HIGH VISIBILITY FENCE
- x TREE PROTECTION FENCE PER C.O.K. STD PLAN CK-R.49
- [Symbol] INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- [Symbol] REMOVE CONIFEROUS / DECIDUOUS TREE
- [Symbol] TREE ID, SEE ARBORIST REPORT IN APPENDIX OF SPECS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

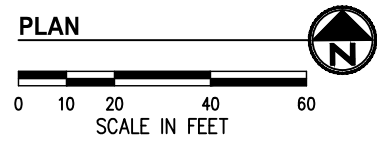
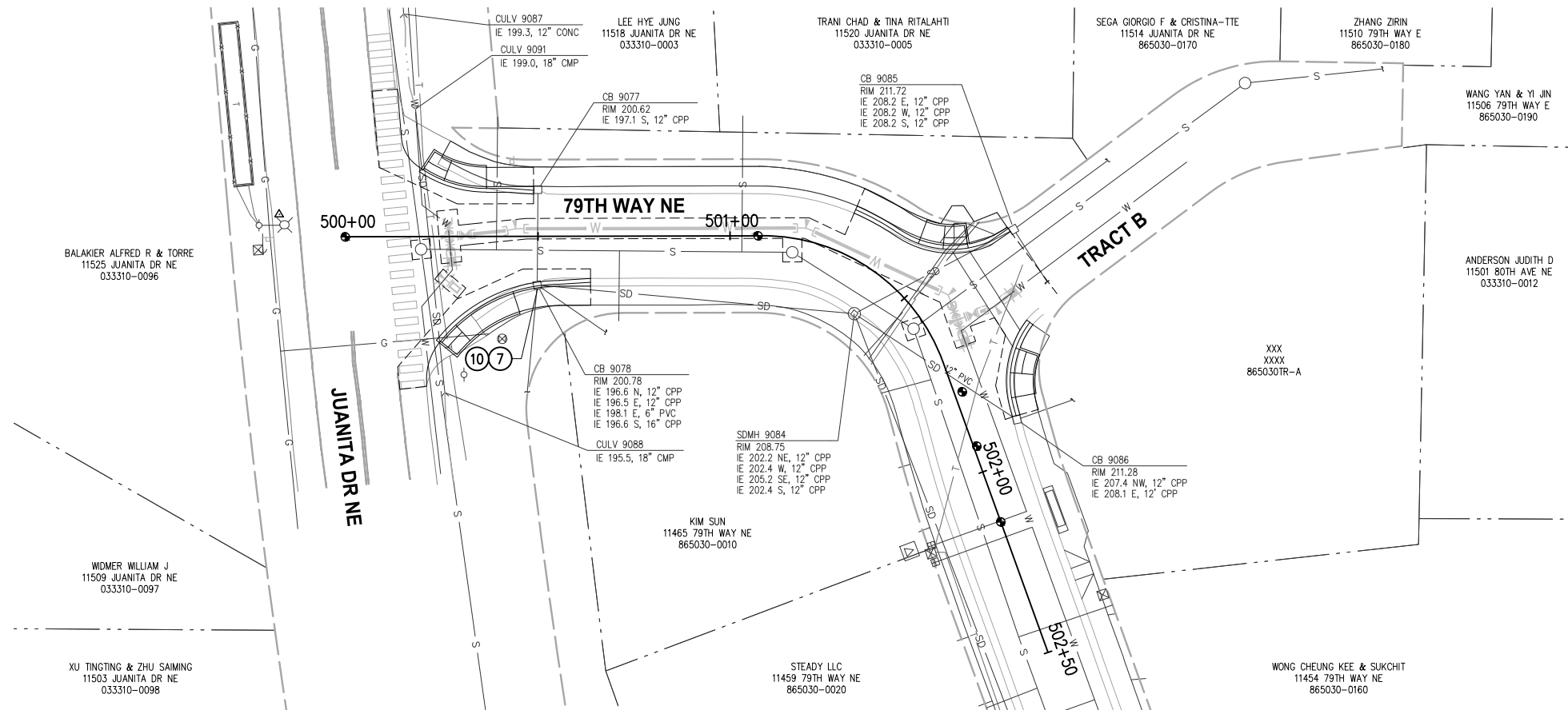
STA 59+00 TO STA 63+00

**SITE PREPARATION & TESC PLAN**

REFERENCE SHEET NO. SHEET 16 OF 161 SHEETS



September 16, 2023 - 7:06 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\STRM01.DWG - Layout Name: STRM (1) STA 500+00 TO STA 502+50



**GENERAL NOTES**

1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
5. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ⑦ ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
- ⑩ INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16

**LEGEND**

- ## STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- ○ CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
- CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
- DIRECTIONAL FLOW ARROW
- ////// REMOVE/ABANDON EXISTING PIPE
- ⊠ ⊡ ⊙ ⊕ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
- ▨▨▨▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
- W — PROPOSED WATER MAIN, SEE SHEETS 135-147
- SS — PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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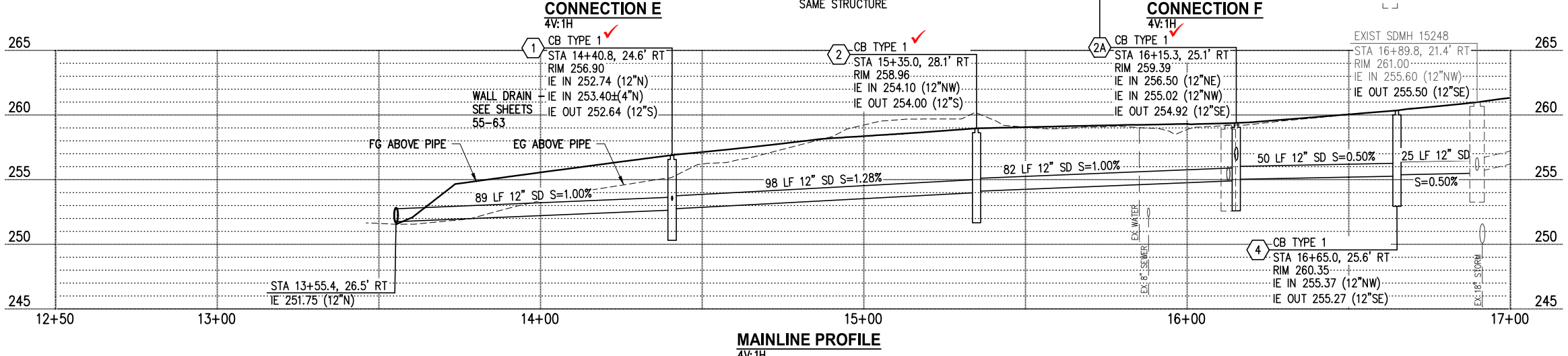
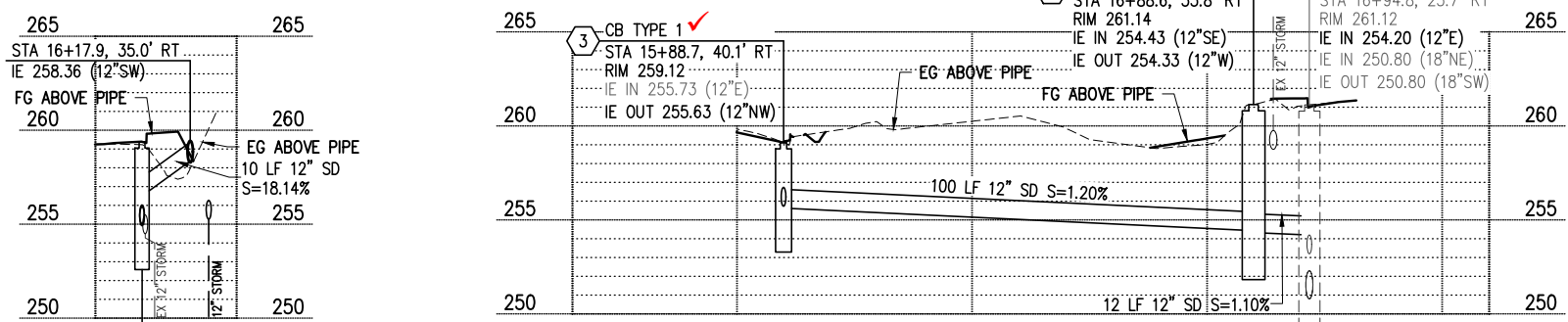
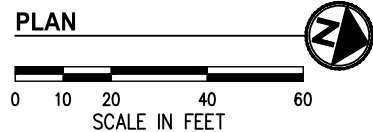
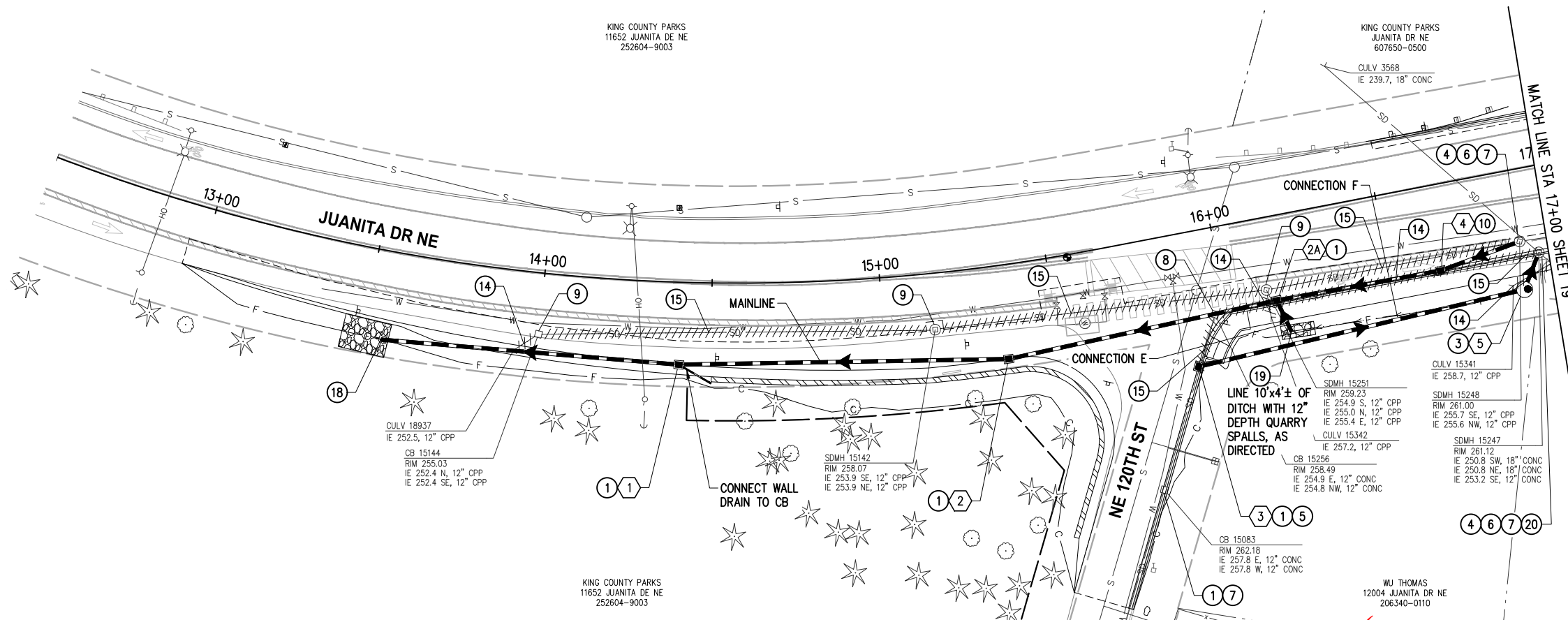
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 500+00 TO STA 502+50

**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 17 OF 161 SHEETS

September 16, 2023 - 7:08 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065STRM02.DWG - Layout Name: STRM (1) STA 12+50 TO STA 17+00



**GENERAL NOTES**

1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
5. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

1. INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
3. INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
4. INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
5. CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
6. CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
7. ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
8. REMOVE EXISTING DRAINAGE STRUCTURE
9. ABANDON EXISTING DRAINAGE STRUCTURE; REMOVE TOP 3' OF STRUCTURE, BREAK BOTTOM OF STRUCTURE, AND FILL WITH CSTC
10. INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
14. REMOVE PIPE
15. PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER
18. BEVEL PIPE END PER C.O.K. STD PLAN CK-D.30 & INSTALL OUTFALL PROTECTION PER C.O.K. STD PLAN CK-D.43
19. INSTALL DEBRIS BARRIER PER C.O.K. STD PLAN CK-D.27
20. EXPOSE CONE SECTION AND ROTATE EXISTING ECCENTRIC CONE SO THAT THE OPENING IS WITHIN THE PROPOSED SIDEWALK, REGROUT STRUCTURE SO IT IS WATER TIGHT, AND INSTALL NEW STEPS OR LADDER PER C.O.K. STD PLAN CK-D.09.

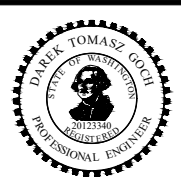
**LEGEND**

- ## STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
- CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
- ▶ DIRECTIONAL FLOW ARROW
- //// REMOVE/ABANDON EXISTING PIPE
- ⊠ ⊡ ⊙ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
- ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
- W PROPOSED WATER MAIN, SEE SHEETS 135-147
- SS PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023

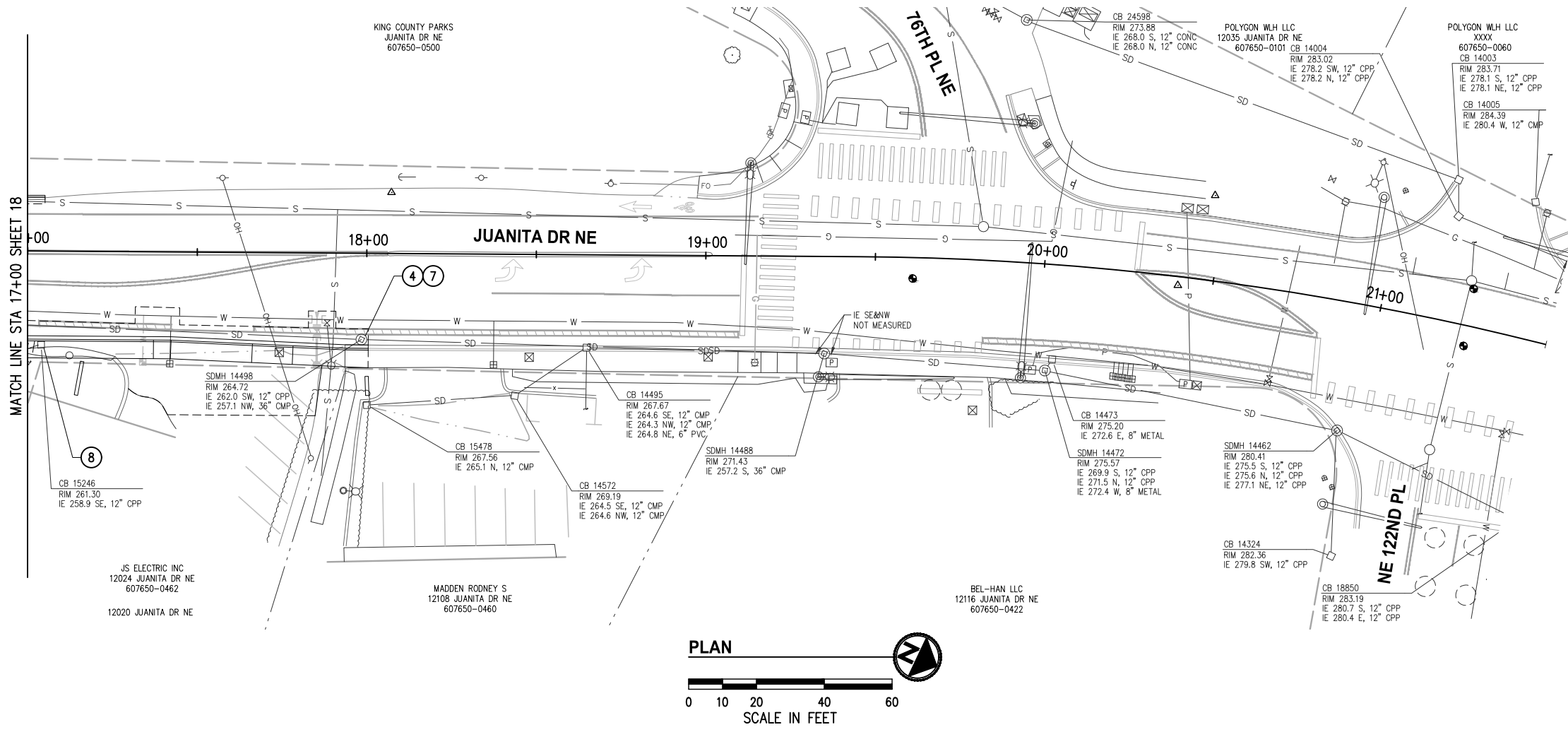


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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 12+50 TO STA 17+00  
**STORMWATER PLAN & PROFILE**  
REFERENCE SHEET NO. SHEET 18 OF 161 SHEETS

September 16, 2023 - 7:09 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\STRM02.DWG - Layout Name: STRM (2) STA 17+00 TO STA 21+50



**GENERAL NOTES**

1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
5. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- ④ INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
- ⑦ ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
- ⑧ REMOVE EXISTING DRAINAGE STRUCTURE

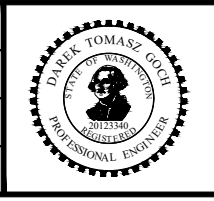
**LEGEND**

- ## STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
- CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
- DIRECTIONAL FLOW ARROW
- //// REMOVE/ABANDON EXISTING PIPE
- ⊠ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
- ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
- W — PROPOSED WATER MAIN, SEE SHEETS 135-147
- SS — PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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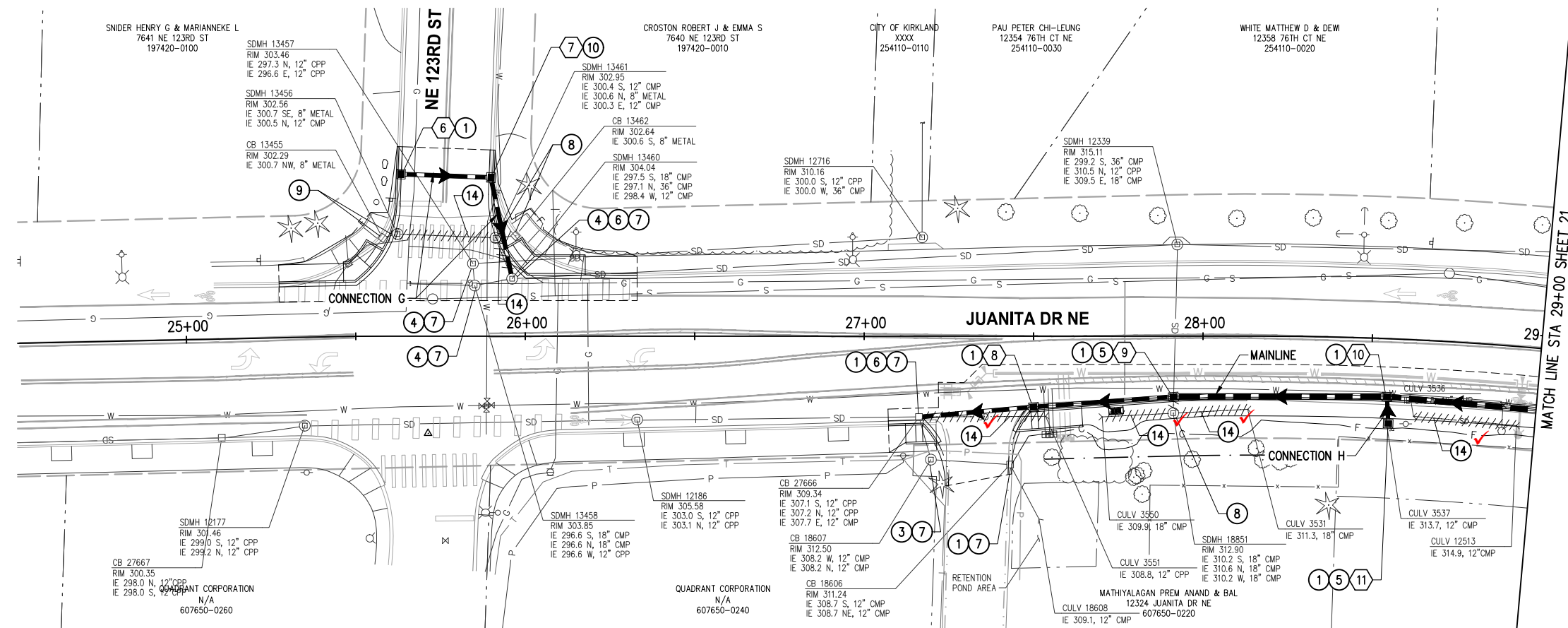
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 17+00 TO STA 21+50

**STORMWATER PLAN & PROFILE**

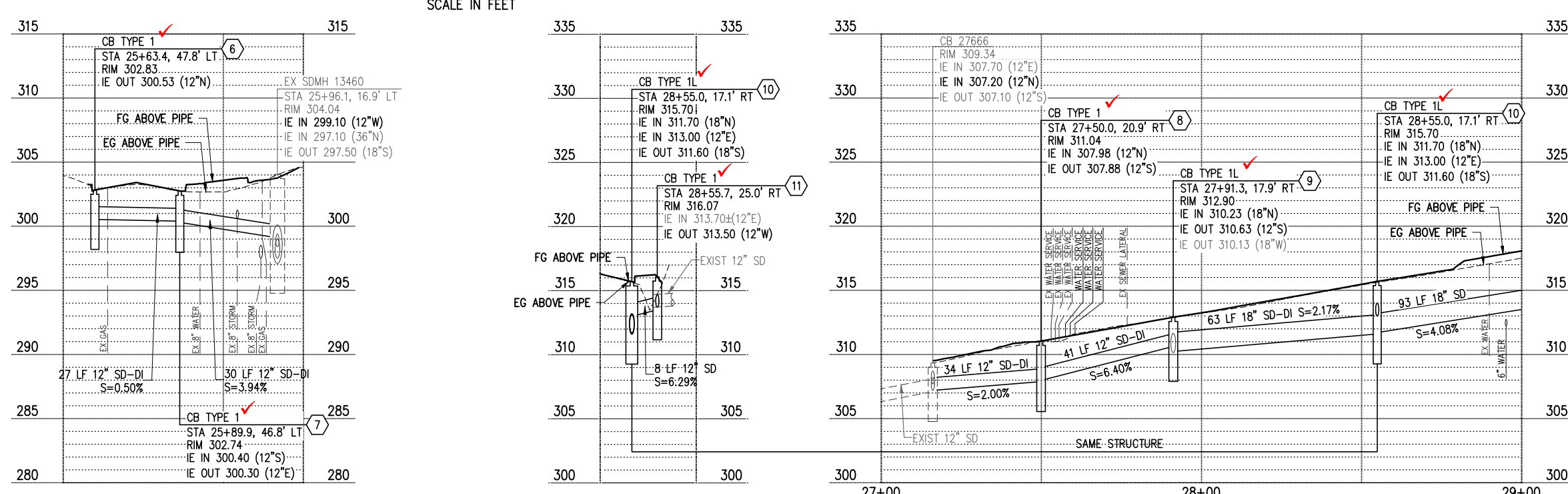
REFERENCE SHEET NO.
SHEET 19 OF 161 SHEETS

September 16, 2023 - 7:09 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065STRM02.DWG - Layout Name: STRM (3) STA 24+50 TO STA 29+00



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
  - CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - ABANDON EXISTING DRAINAGE STRUCTURE; REMOVE TOP 3' OF STRUCTURE, BREAK BOTTOM OF STRUCTURE, AND FILL WITH CSTC
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - REMOVE PIPE



- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - DIRECTIONAL FLOW ARROW
  - //// REMOVE/ABANDON EXISTING PIPE
  - ⊠ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - W — PROPOSED WATER MAIN, SEE SHEETS 135-147
  - SS — PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY

<p>Know what's below. Call 811 before you dig.</p>	UPI NO.:	FED. AID PROJ. NO.:
	SURVEY NO.:	FIELD BOOK(S):
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	DESIGNED BY: DG	DRAWN BY: DG

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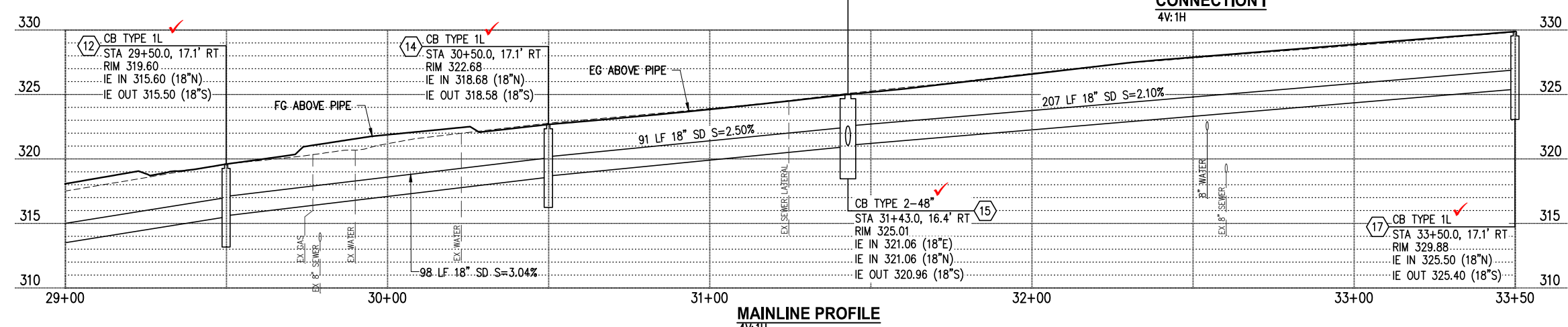
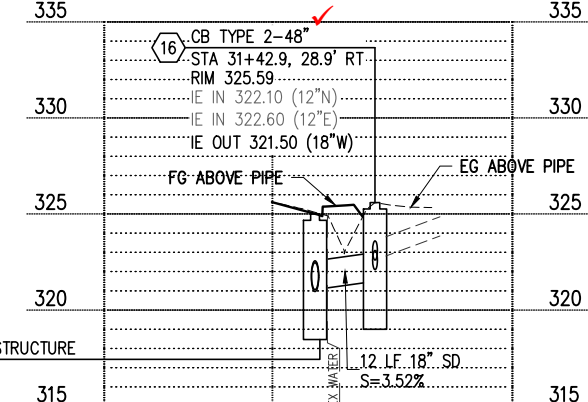
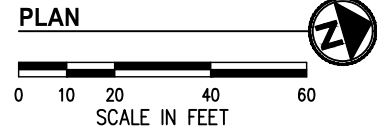
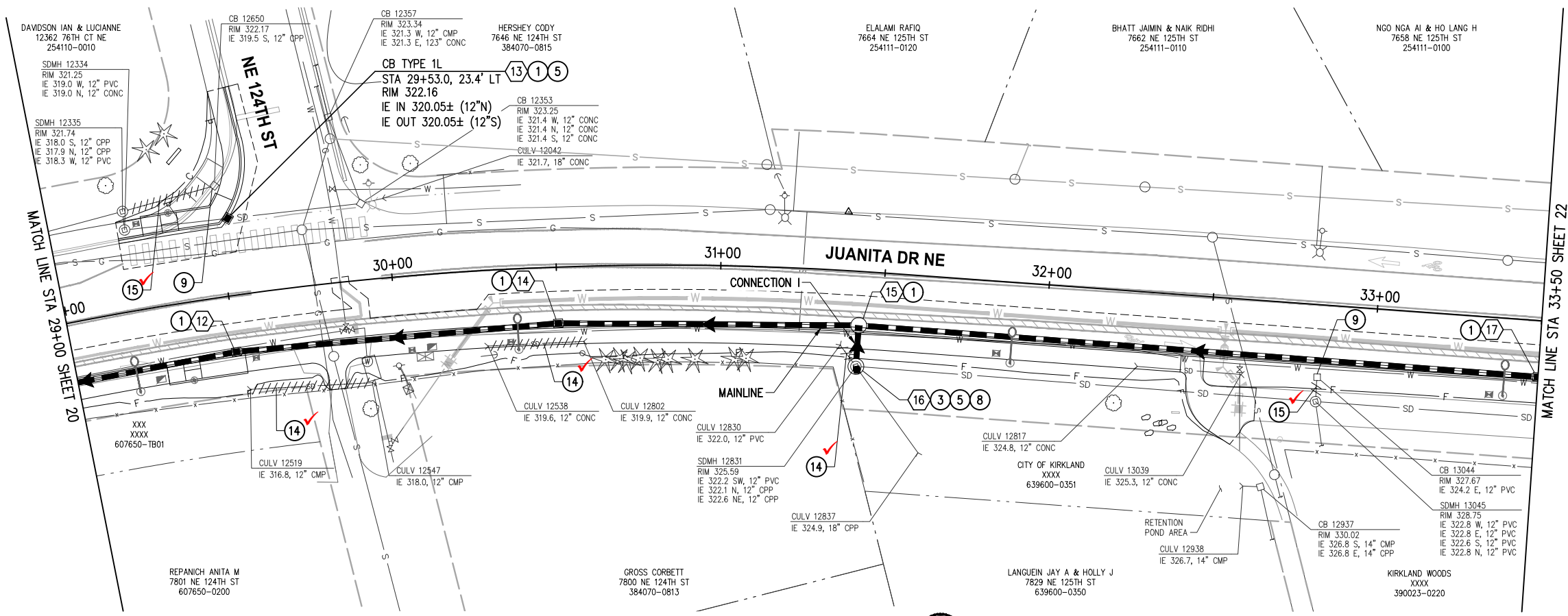
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 24+50 TO STA 29+00

**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 20 OF 161 SHEETS

September 16, 2023 - 7:10 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\STRM02.DWG - Layout Name: STRM (4) STA 29+00 TO STA 33+50



**GENERAL NOTES**

1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
5. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

- 1 INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
- 3 INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
- 5 CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
- 8 REMOVE EXISTING DRAINAGE STRUCTURE
- 9 ABANDON EXISTING DRAINAGE STRUCTURE; REMOVE TOP 3' OF STRUCTURE, BREAK BOTTOM OF STRUCTURE, AND FILL WITH CSTC
- 14 REMOVE PIPE
- 15 PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER

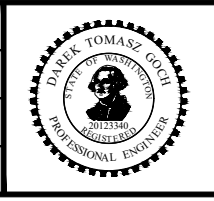
**LEGEND**

- # STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
- CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
- ▶ DIRECTIONAL FLOW ARROW
- //// REMOVE/ABANDON EXISTING PIPE
- ☒ ☒ ☒ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
- ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
- W PROPOSED WATER MAIN, SEE SHEETS 135-147
- SS PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



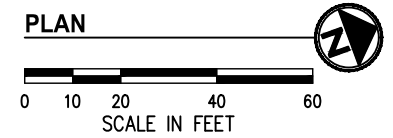
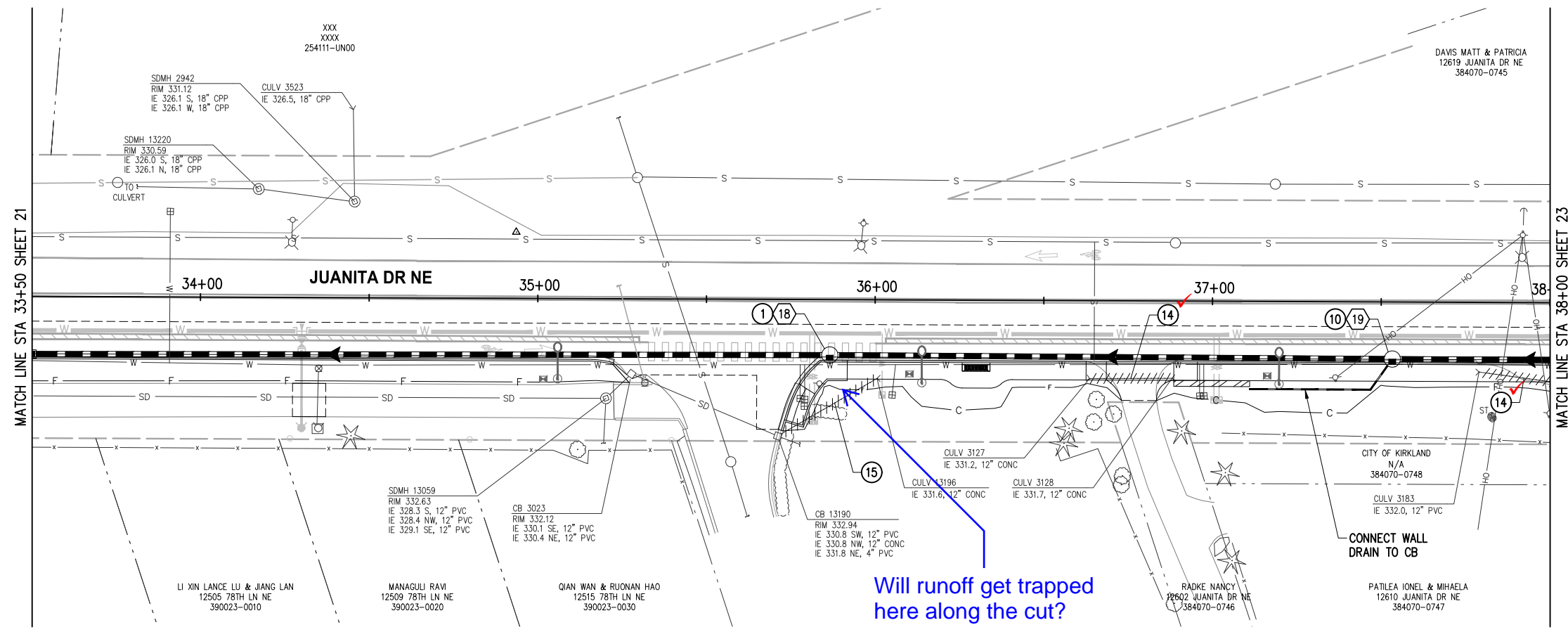
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
 STA 29+00 TO STA 33+50  
**STORMWATER PLAN & PROFILE**

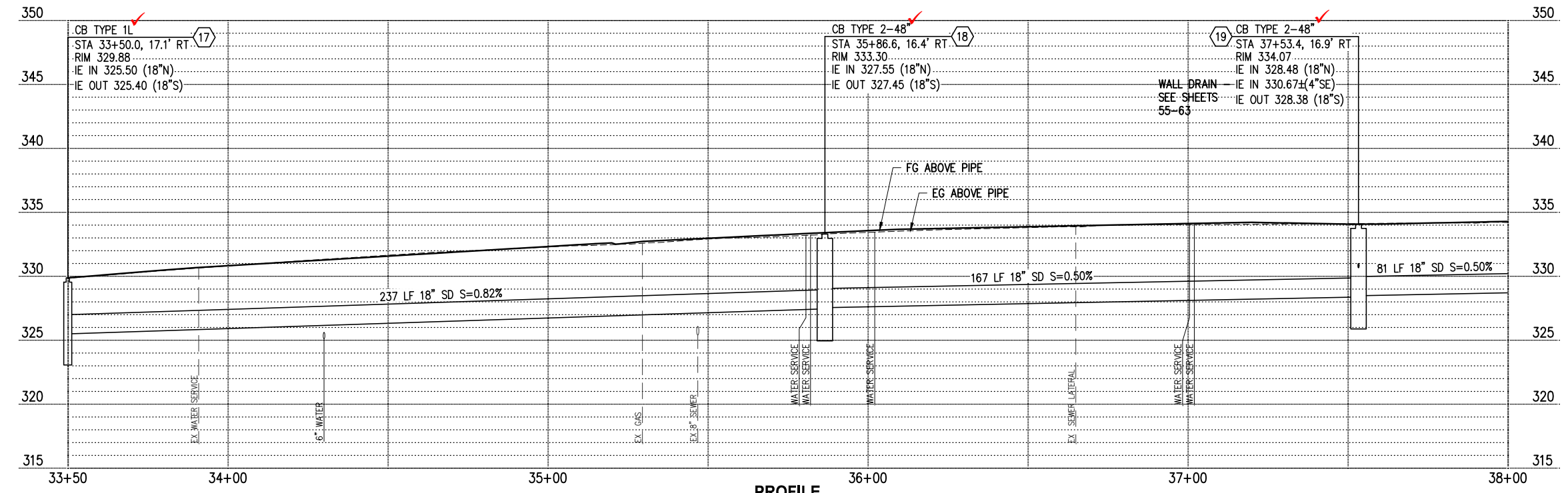
REFERENCE SHEET NO.	SHEET 21 OF 161 SHEETS
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September 16, 2023 - 7:11 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\STRM02.DWG - Layout Name: STRM (5) STA 33+50 TO STA 38+00



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - REMOVE PIPE
  - PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER

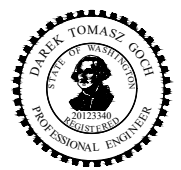


- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - DIRECTIONAL FLOW ARROW
  - REMOVE/ABANDON EXISTING PIPE
  - LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - PROPOSED WATER MAIN, SEE SHEETS 135-147
  - PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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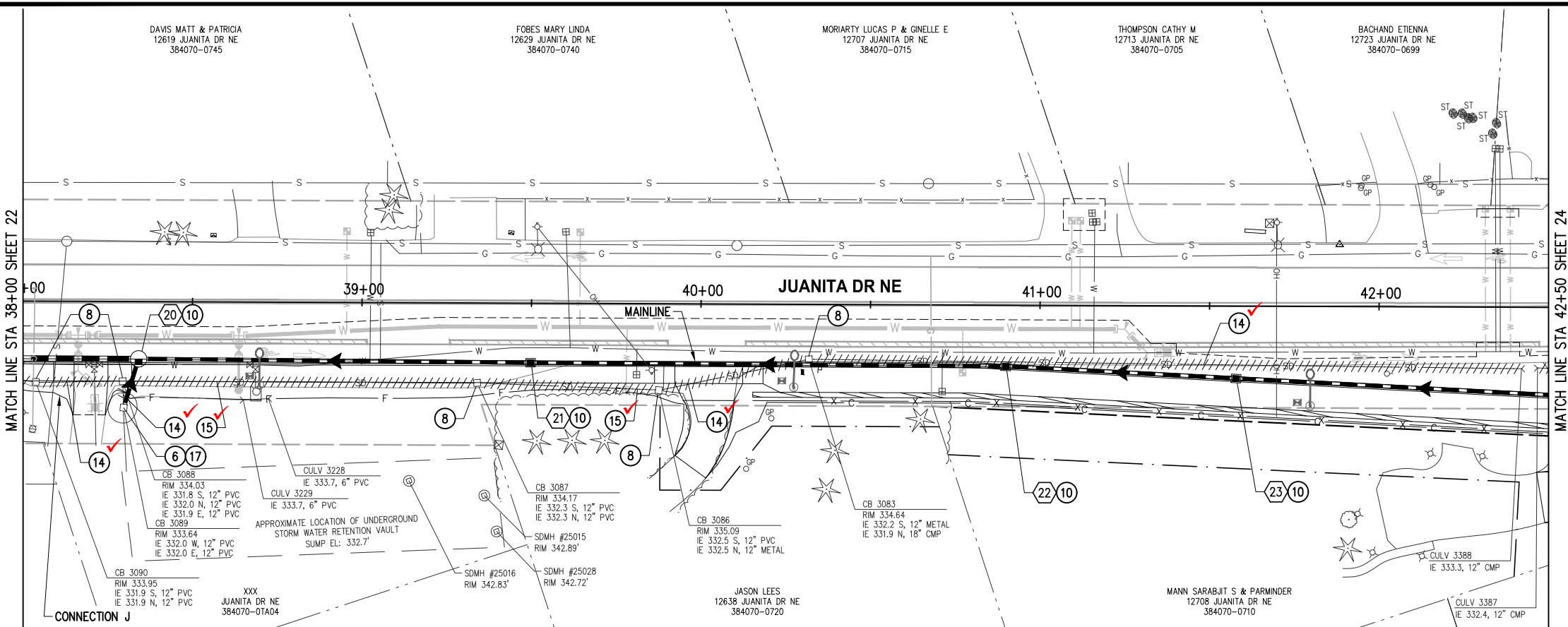
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 38+00

**STORMWATER PLAN & PROFILE**

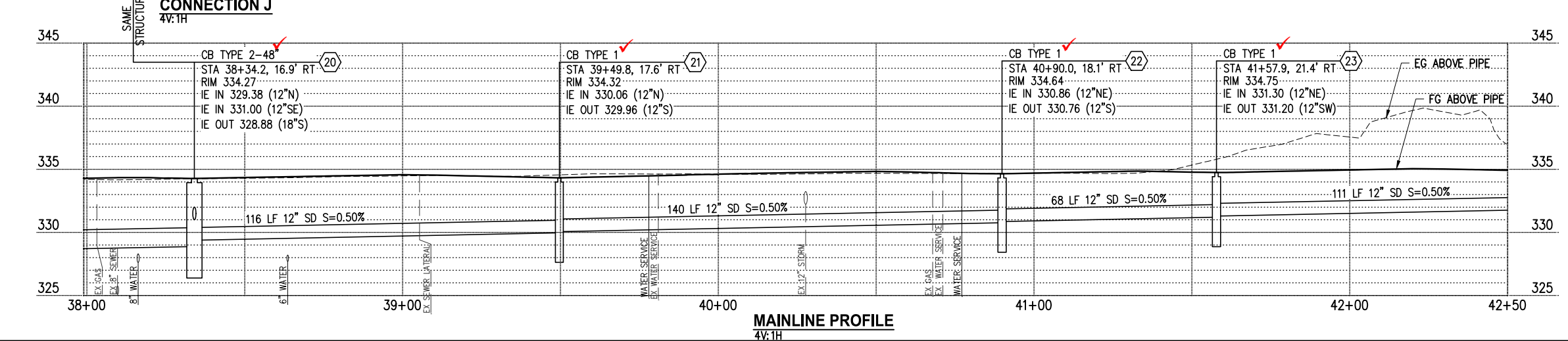
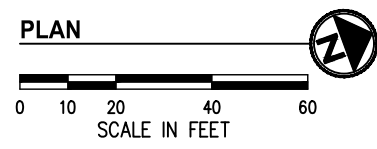
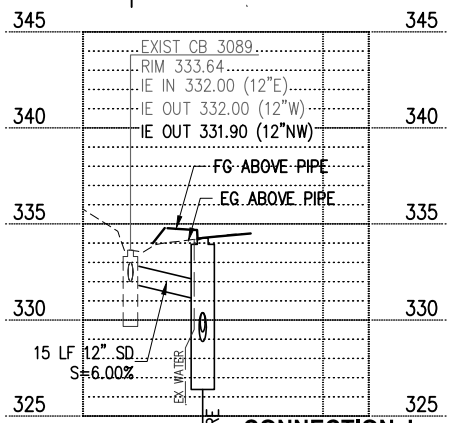
REFERENCE SHEET NO. SHEET 22 OF 161 SHEETS

September 16, 2023 - 7:11 PM - DAREK GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\STRM02.DWG - Layout Name: STRM (6) STA 38+00 TO STA 42+50



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - REMOVE PIPE
  - PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER
  - INSTALL DEBRIS CAGE ON EX STRUCTURE PER C.O.K. STD PLAN CK-D.44

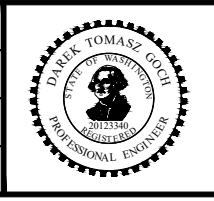


- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - ▶ DIRECTIONAL FLOW ARROW
  - //// REMOVE/ABANDON EXISTING PIPE
  - ⊠ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - W PROPOSED WATER MAIN, SEE SHEETS 135-147
  - SS PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

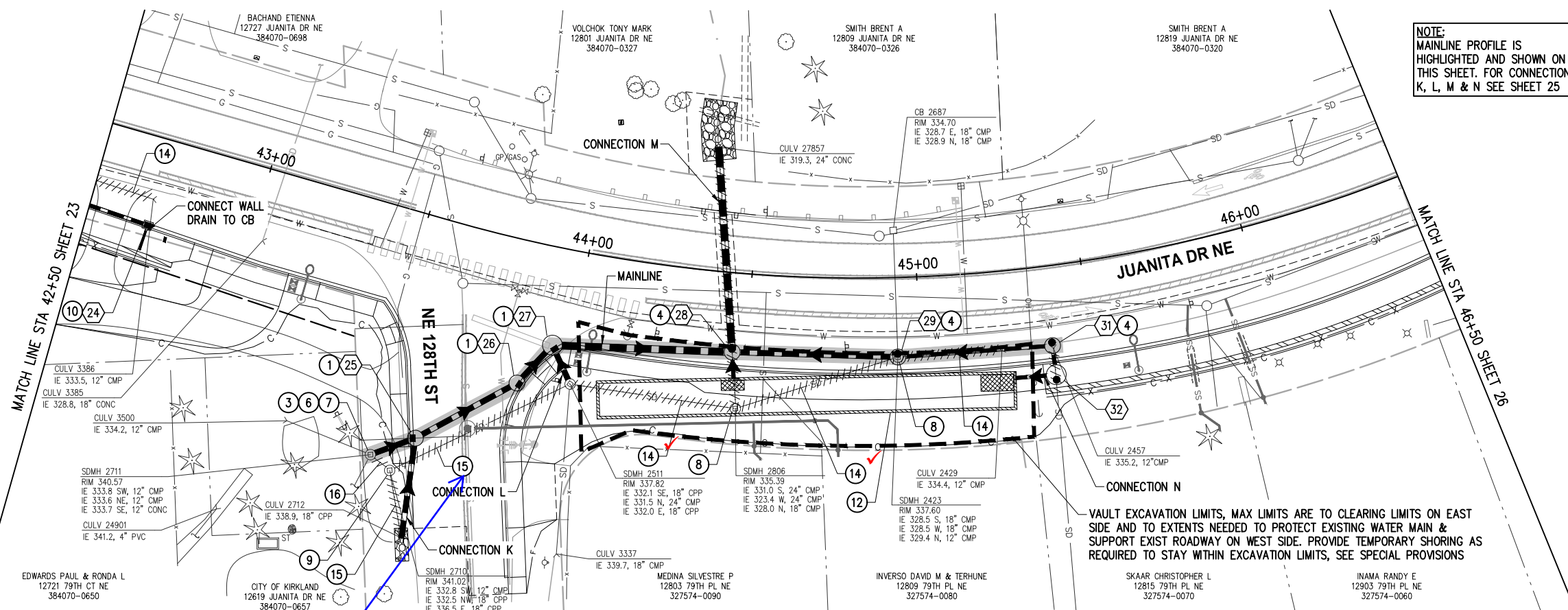
STA 38+00 TO STA 42+50

**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 23 OF 161 SHEETS

CONTRACT:19066STRM03.DWG - Layout Name: STRM (1) STA 42+50 TO STA 46+50

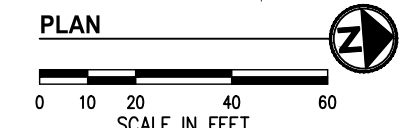
September 16, 2023 - 7:13 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19066 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN



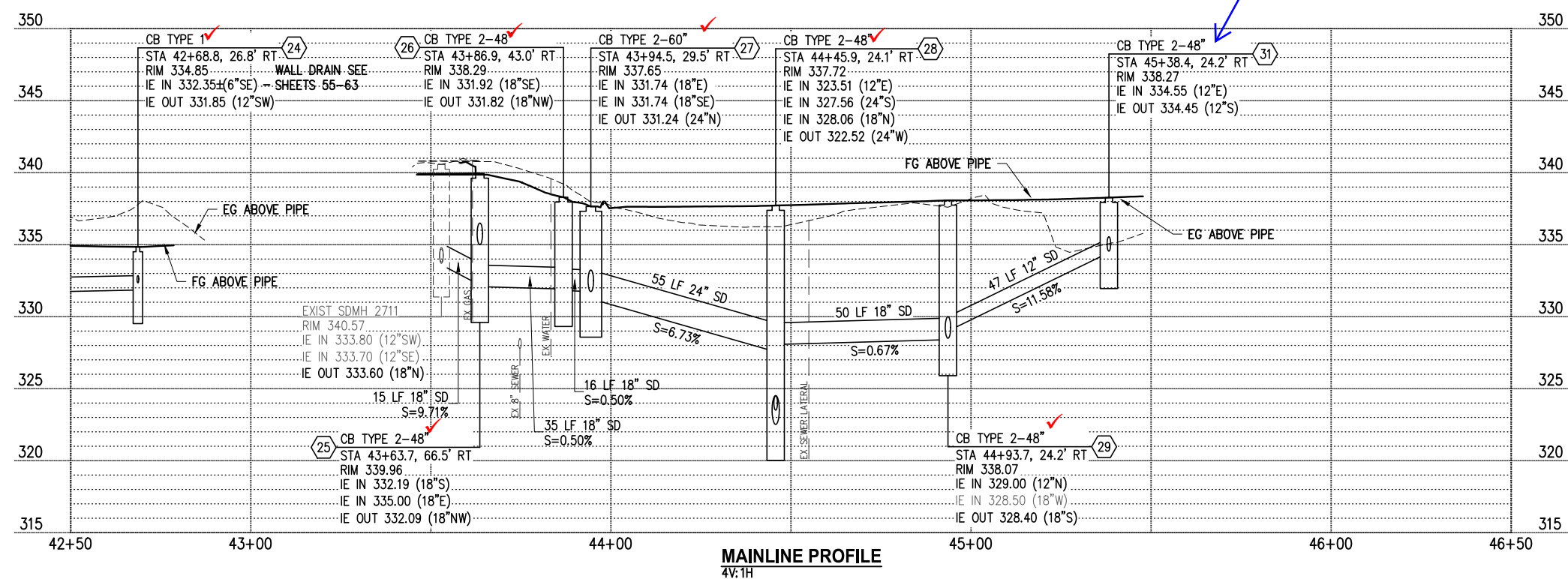
- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - ABANDON EXISTING DRAINAGE STRUCTURE; REMOVE TOP 3' OF STRUCTURE, BREAK BOTTOM OF STRUCTURE, AND FILL WITH CSTC
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - INSTALL STORMWATER DETENTION VAULT PER DETAILS, SHEET 30
  - REMOVE PIPE
  - PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER
  - FILL PIPE WITH CDF

Can this pipe be removed, or filled with CDF instead of abandoning per WSDOT spec?



Can this be a Type 1?

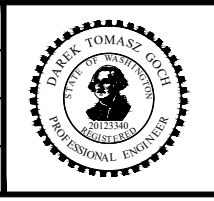


- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - ▶ DIRECTIONAL FLOW ARROW
  - //// REMOVE/ABANDON EXISTING PIPE
  - ⊠ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - W PROPOSED WATER MAIN, SEE SHEETS 135-147
  - SS PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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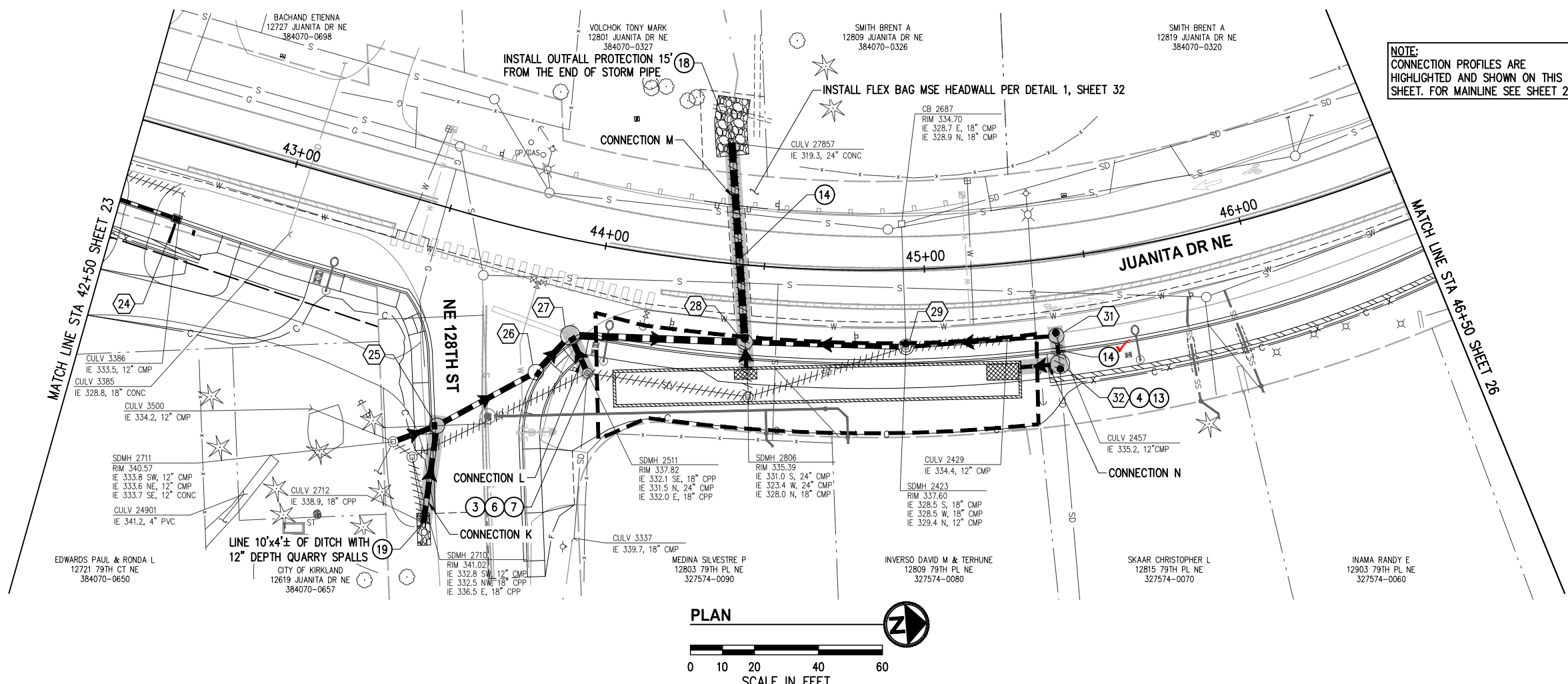
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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 42+50 TO STA 46+50 - MAINLINE  
**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 24 OF 161 SHEETS



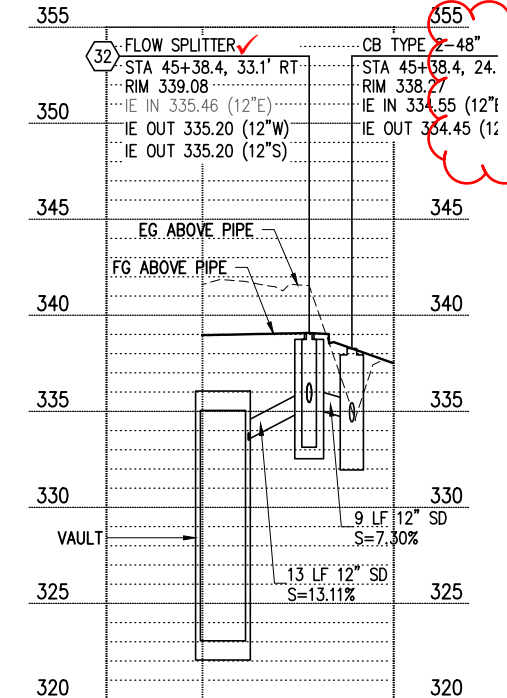
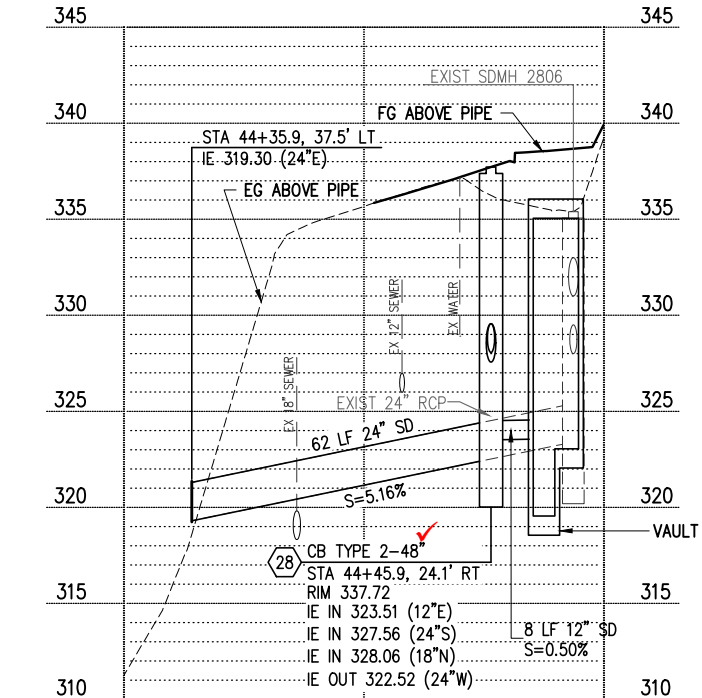
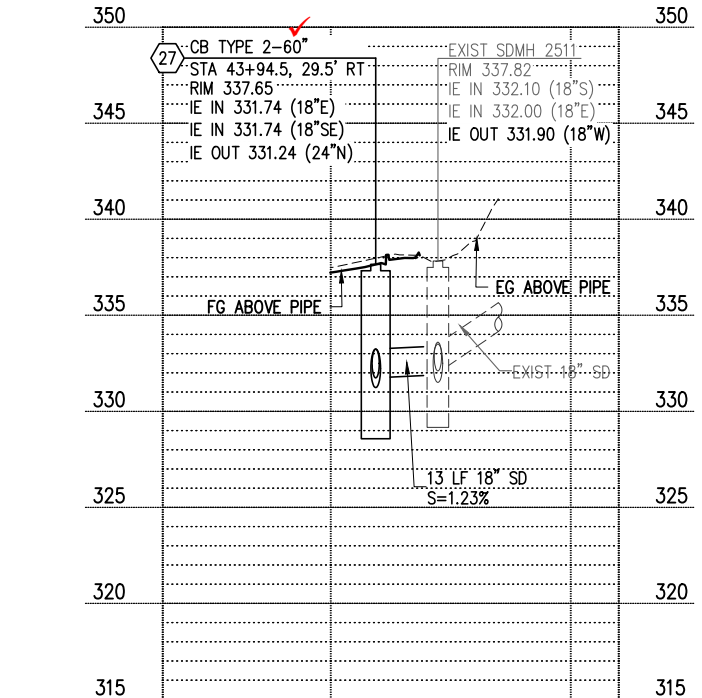
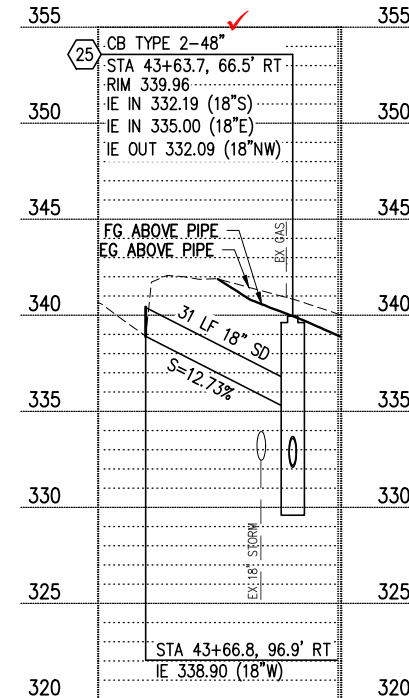
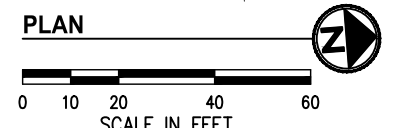
September 16, 2023 - 7:14 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS & SAFETY DESIGN\DRAWINGS\CONTRACT\19065STRM03.DWG - Layout Name: STRM (1B) STA 42+50 TO STA 46+50



**NOTE:**  
CONNECTION PROFILES ARE HIGHLIGHTED AND SHOWN ON THIS SHEET. FOR MAINLINE SEE SHEET 24.

- GENERAL NOTES**
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- CONSTRUCTION NOTES**
- INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - INSTALL FLOW SPLITTER PER DETAIL, SHEET 31
  - REMOVE PIPE
  - BEVEL PIPE END PER C.O.K. STD PLAN CK-D.30 & INSTALL OUTFALL PROTECTION PER C.O.K. STD PLAN CK-D.43
  - INSTALL DEBRIS BARRIER PER C.O.K. STD PLAN CK-D.27



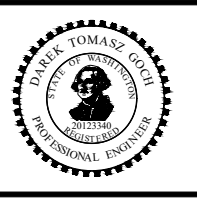
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- LEGEND**
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - ▶ DIRECTIONAL FLOW ARROW
  - //// REMOVE/ABANDON EXISTING PIPE
  - ⊠ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - ▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - W PROPOSED WATER MAIN, SEE SHEETS 135-147
  - SS PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



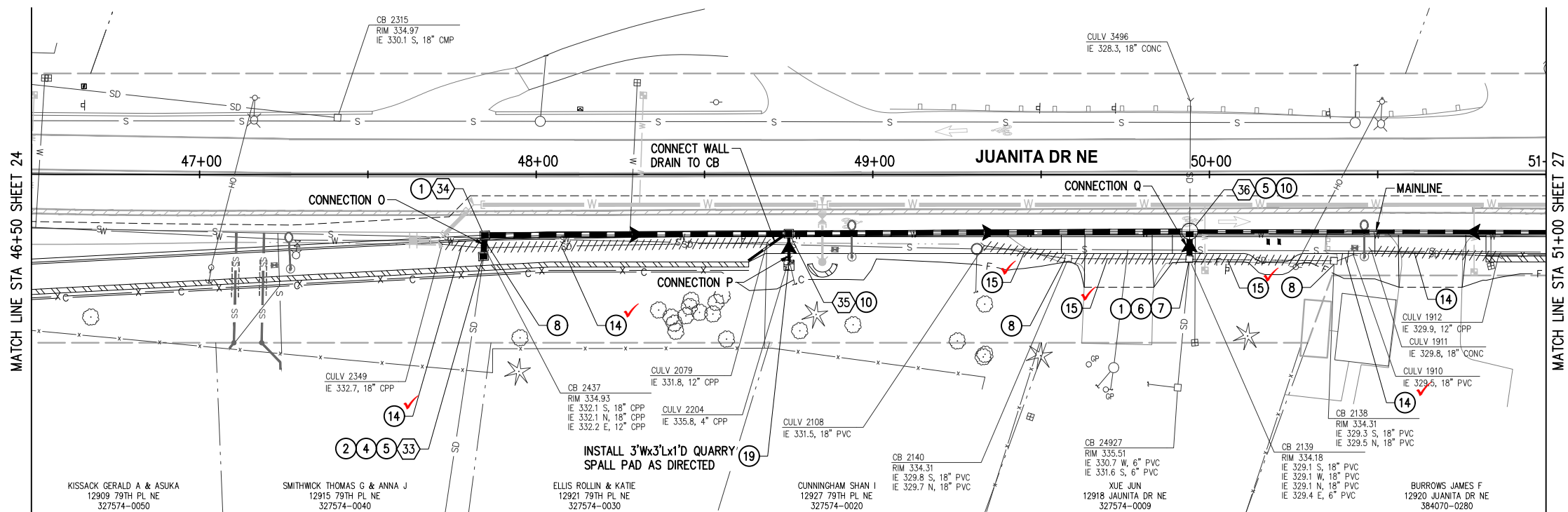
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 42+50 TO STA 46+50 - CONNECTIONS  
**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 25 OF 161 SHEETS

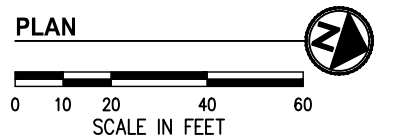
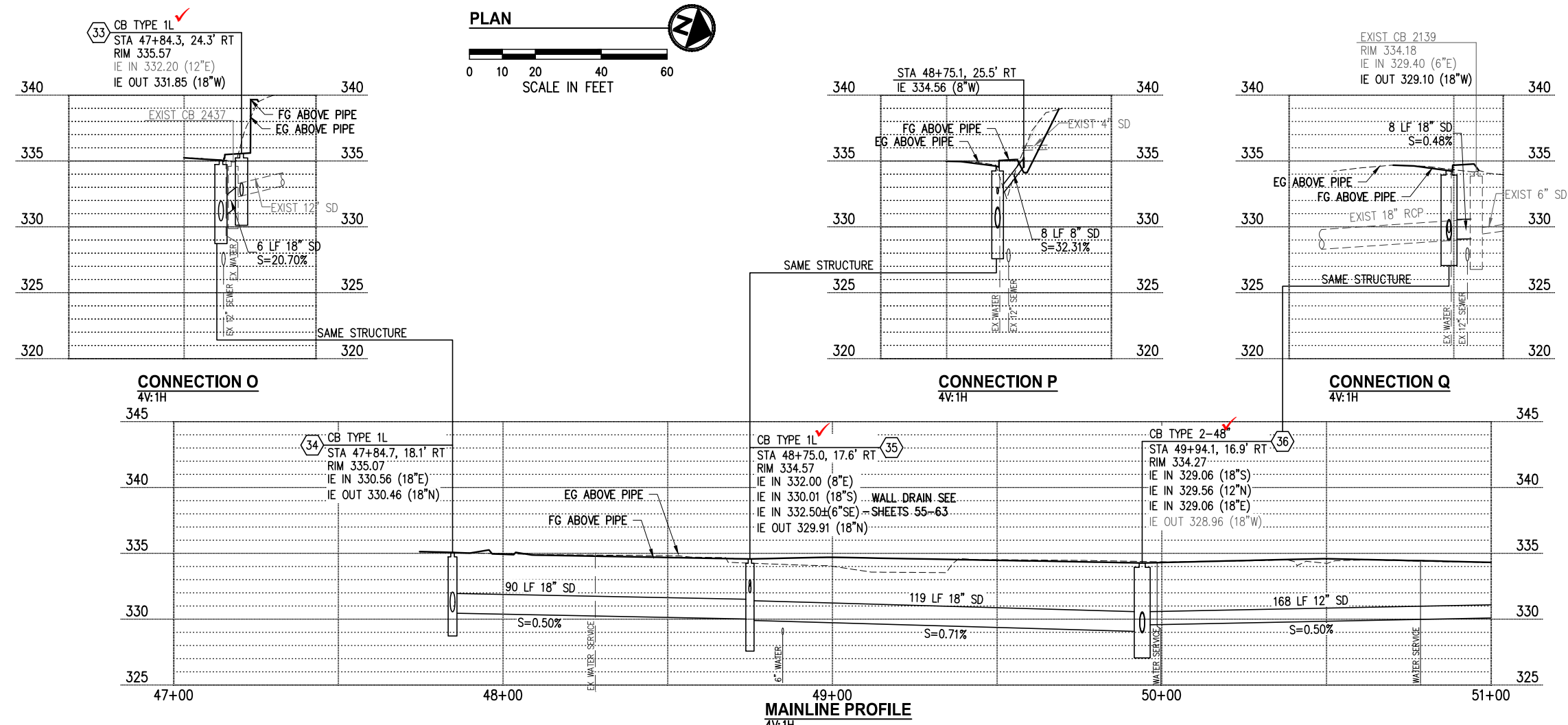
September 16, 2023 - 7:15 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065STRM03.DWG - Layout Name: STRM (2) STA 46+50 TO STA 51+00



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - INSTALL CIRCULAR RISER AND TRANSITION FOR TYPE 1 CATCH BASIN PER C.O.K. STD PLAN CK-D.07A
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
  - CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - REMOVE PIPE
  - PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER
  - INSTALL DEBRIS BARRIER PER C.O.K. STD PLAN CK-D.27

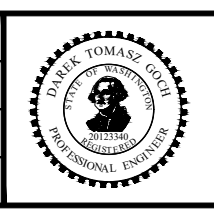
- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - ▶ DIRECTIONAL FLOW ARROW
  - REMOVE/ABANDON EXISTING PIPE
  - LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - PROPOSED WATER MAIN, SEE SHEETS 135-147
  - PROPOSED SEWER LATERAL, SEE SHEETS 135-147



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

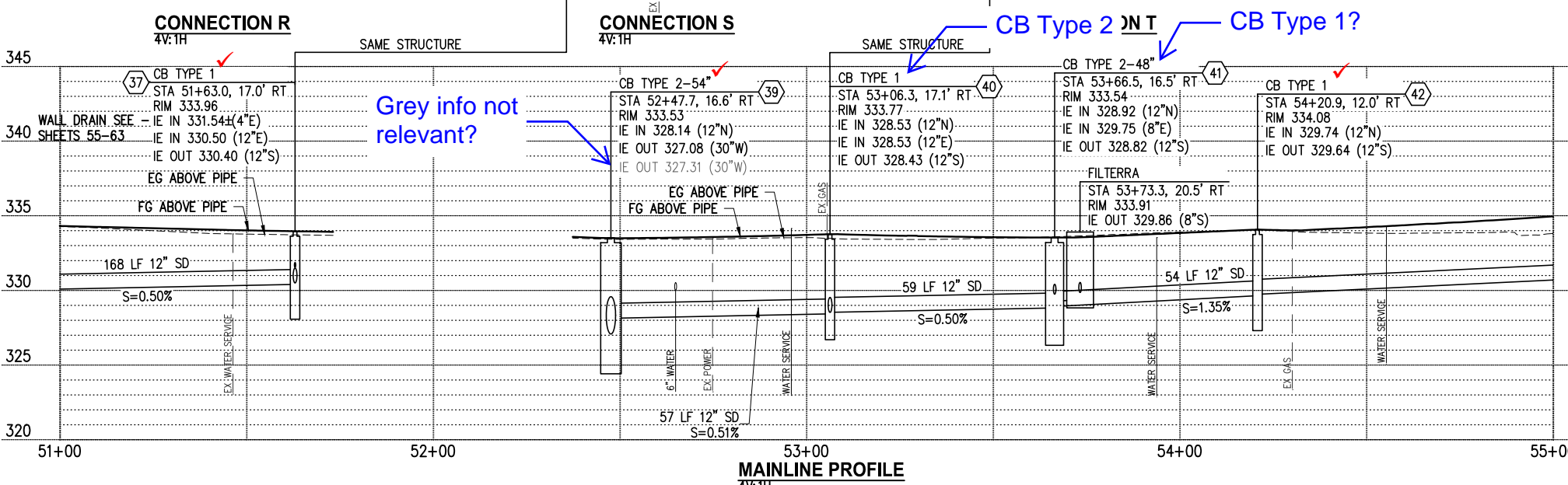
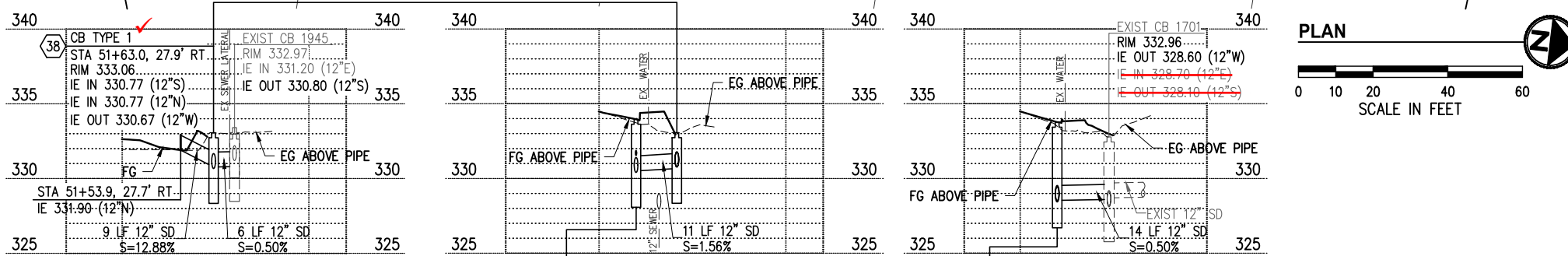
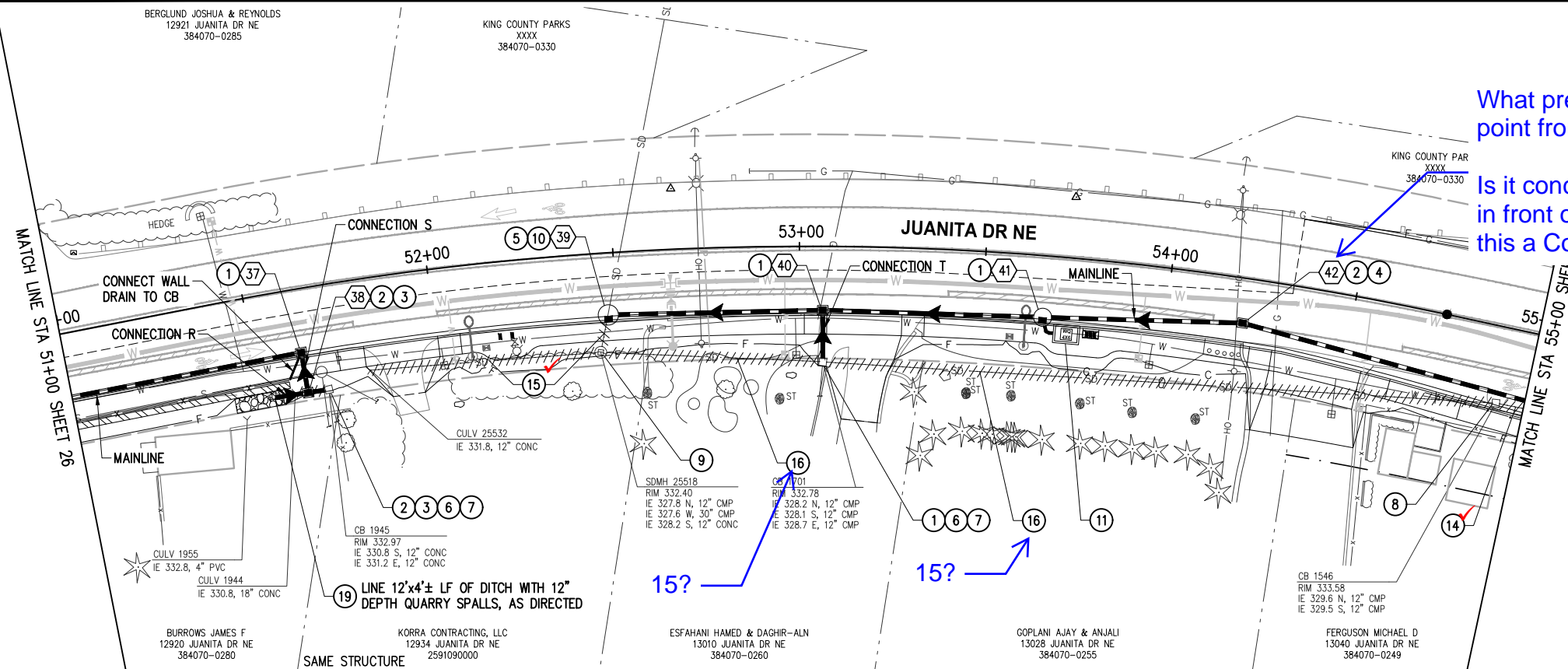
STA 46+50 TO STA 51+00

**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.

SHEET 26 OF 161 SHEETS

September 16, 2023 - 7:15 PM - DAREK GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\STRM03.DWG - Layout Name: STRM (3) STA 51+00 TO STA 55+00



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

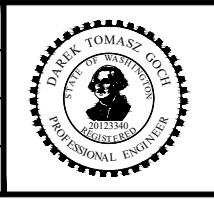
- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - INSTALL CIRCULAR RISER AND TRANSITION FOR TYPE 1 CATCH BASIN PER C.O.K. STD PLAN CK-D.07A
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18
  - INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
  - CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - ABANDON EXISTING DRAINAGE STRUCTURE; REMOVE TOP 3' OF STRUCTURE, BREAK BOTTOM OF STRUCTURE, AND FILL WITH CSTC
  - INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16
  - INSTALL 4'x6' FILTERRA UNIT PER DETAIL 2, SHEET 31
  - REMOVE PIPE
  - PLUG PIPE ENDS WITH CONCRETE 2X PIPE DIAMETER
  - FILL PIPE WITH CDF
  - INSTALL DEBRIS BARRIER PER C.O.K. STD PLAN CK-D.27

- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - DIRECTIONAL FLOW ARROW
  - REMOVE/ABANDON EXISTING PIPE
  - LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - PROPOSED WATER MAIN, SEE SHEETS 135-147
  - PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023

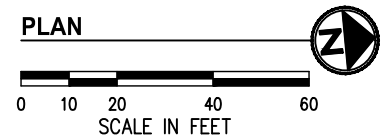
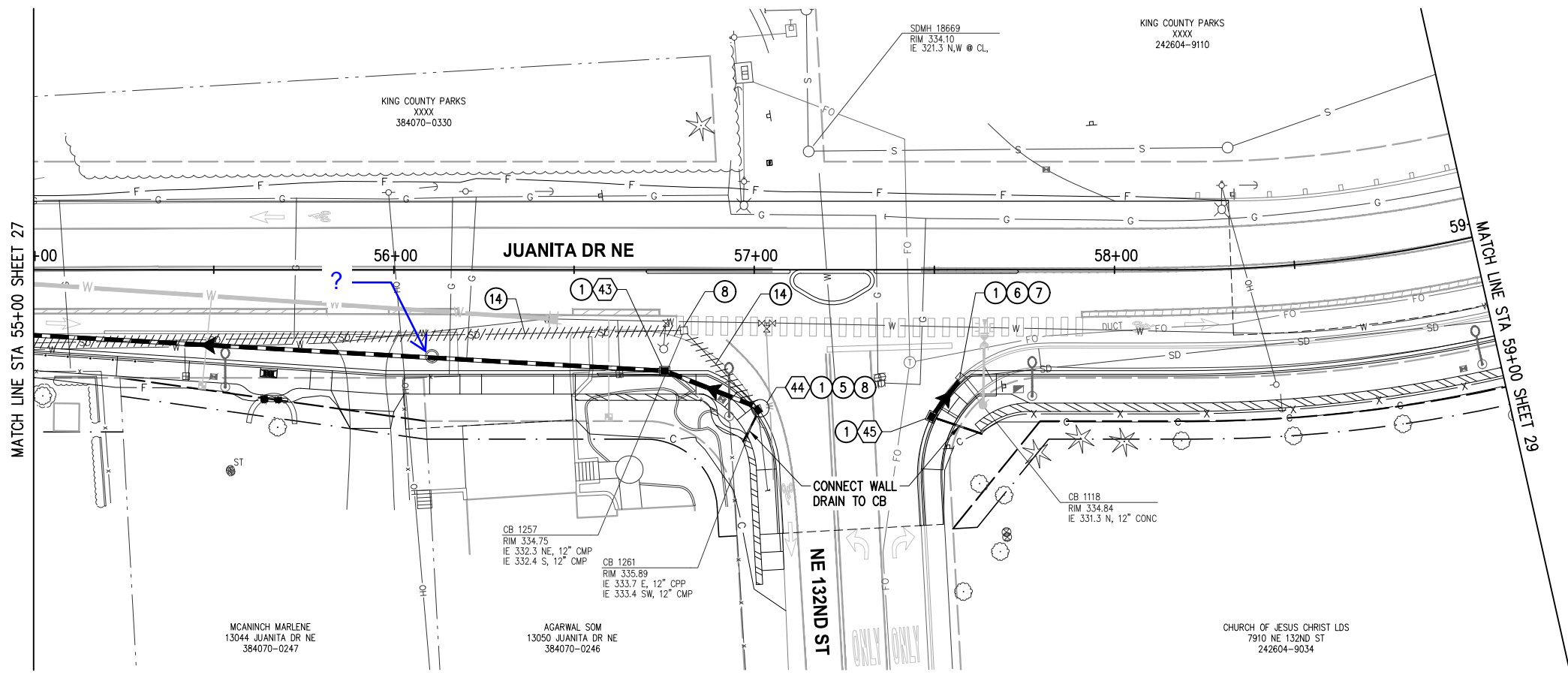


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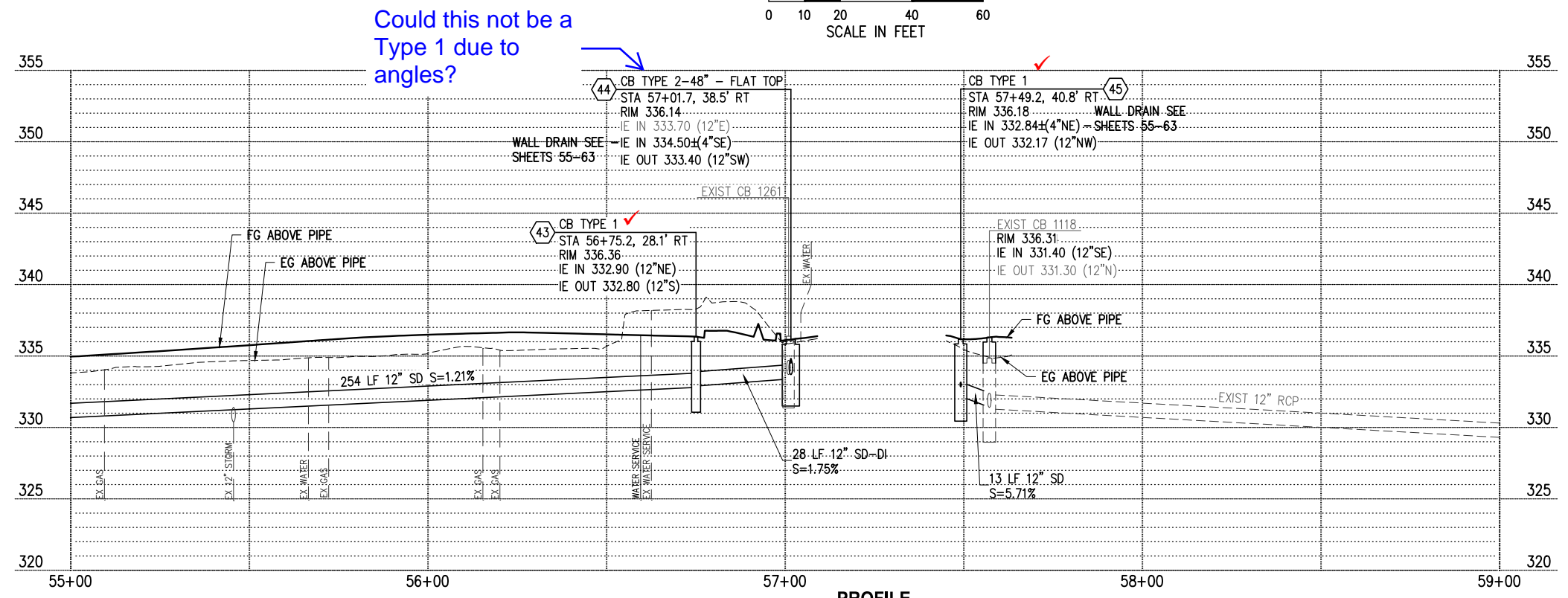
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 51+00 TO STA 55+00  
**STORMWATER PLAN & PROFILE**  
REFERENCE SHEET NO. SHEET 27 OF 161 SHEETS

September 16, 2023 - 7:16 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065STRM03.DWG - Layout Name: STRM (4) STA 55+00 TO STA 59+00



- ### GENERAL NOTES
- STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
  - CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
  - STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
  - ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
  - CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE
  - CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE
  - ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
  - REMOVE EXISTING DRAINAGE STRUCTURE
  - REMOVE PIPE



- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
  - STORM DRAIN PIPE
  - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
  - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
  - ▶ DIRECTIONAL FLOW ARROW
  - REMOVE/ABANDON EXISTING PIPE
  - LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
  - PROPOSED RETAINING WALL, SEE SHEETS 55-63
  - PROPOSED WATER MAIN, SEE SHEETS 135-147
  - PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023

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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

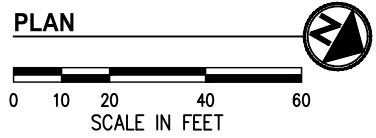
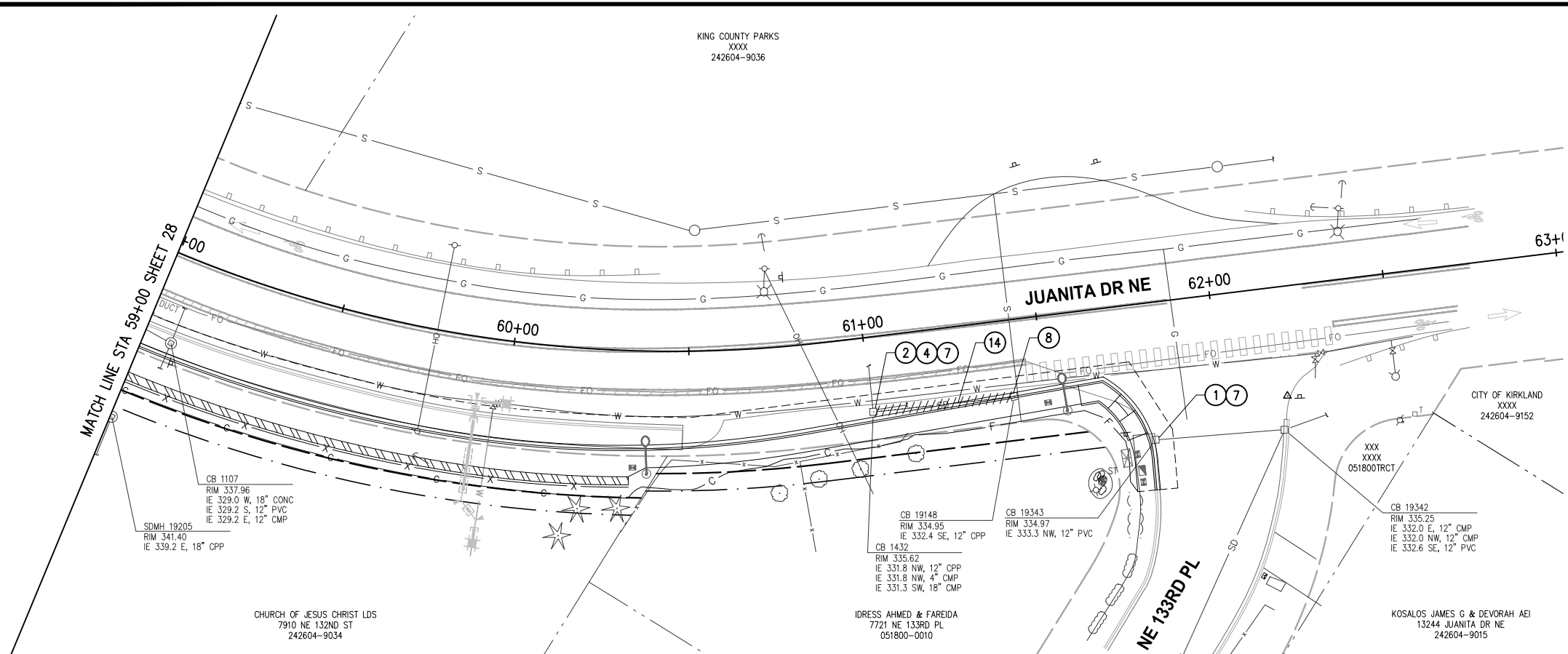
STA 55+00 TO STA 59+00

**STORMWATER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 28 OF 161 SHEETS

September 16, 2023 - 7:16 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\STRM03.DWG - Layout Name: STRM (5) STA 59+00 TO STA 63+00

KING COUNTY PARKS  
XXXX  
242604-9036



CB 1107  
RIM 337.96  
IE 329.0 W, 18" CONC  
IE 329.2 S, 12" PVC  
IE 329.2 E, 12" CMP

SDMH 19205  
RIM 341.40  
IE 339.2 E, 18" CPP

CB 19148  
RIM 334.95  
IE 332.4 SE, 12" CPP

CB 19343  
RIM 334.97  
IE 333.3 NW, 12" PVC

CB 1432  
RIM 335.62  
IE 331.8 NW, 12" CPP  
IE 331.8 NW, 4" CMP  
IE 331.3 SW, 18" CMP

CB 19342  
RIM 335.25  
IE 332.0 E, 12" CMP  
IE 332.0 NW, 12" CMP  
IE 332.6 SE, 12" PVC

CHURCH OF JESUS CHRIST LDS  
7910 NE 132ND ST  
242604-9034

IDRESS AHMED & FAREIDA  
7721 NE 133RD PL  
051800-0010

KOSALOS JAMES G & DEVORAH AEI  
13244 JUANITA DR NE  
242604-9015

**GENERAL NOTES**

1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT ALL BACKFILL MATERIAL SHALL BE CSTC.
2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. STORM PIPES SHALL BE PVC SDR 35, UNLESS OTHERWISE NOTED.
4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
5. EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

**CONSTRUCTION NOTES**

1. INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14. WHERE IN CURB & GUTTER FLOWLINE, INSTALL FRAME AND GRATE PER C.O.K. STD PLAN CK-D.16A
2. INSTALL CIRCULAR RISER AND TRANSITION FOR TYPE 1 CATCH BASIN PER C.O.K. STD PLAN CK-D.07A
4. INSTALL ROUND SOLID LOCKING COVER PER C.O.K. STD PLAN CK-D.18A
7. ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
8. REMOVE EXISTING DRAINAGE STRUCTURE
14. REMOVE PIPE

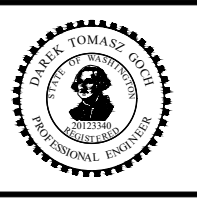
**LEGEND**

- # # STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- ○ CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
- CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07; CATCH BASIN TYPE 1L PER C.O.K. STD PLAN CK-D.08
- DIRECTIONAL FLOW ARROW
- ////// REMOVE/ABANDON EXISTING PIPE
- ☒ ☒ ☒ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 64-73
- ▨▨▨▨ PROPOSED RETAINING WALL, SEE SHEETS 55-63
- W — PROPOSED WATER MAIN, SEE SHEETS 135-147
- SS — PROPOSED SEWER LATERAL, SEE SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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DESIGNED BY: DG	9/2023
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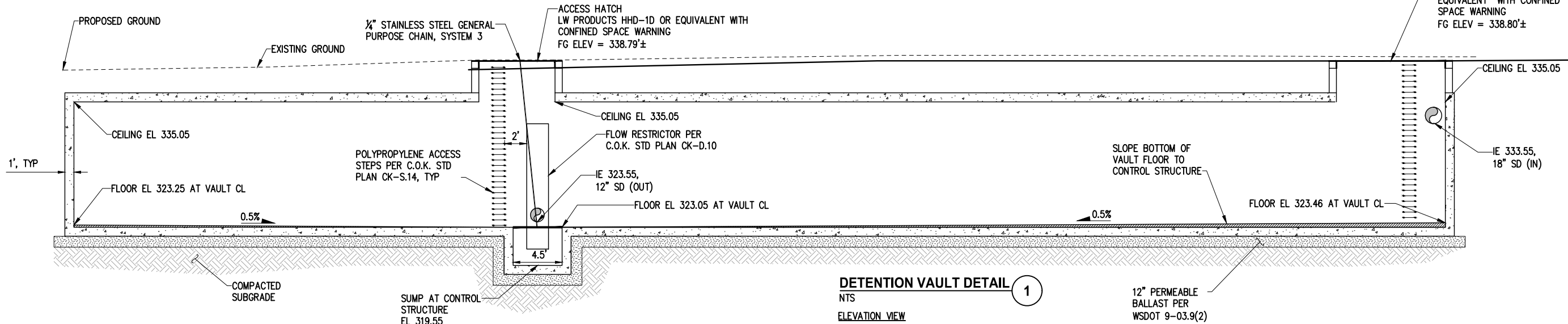
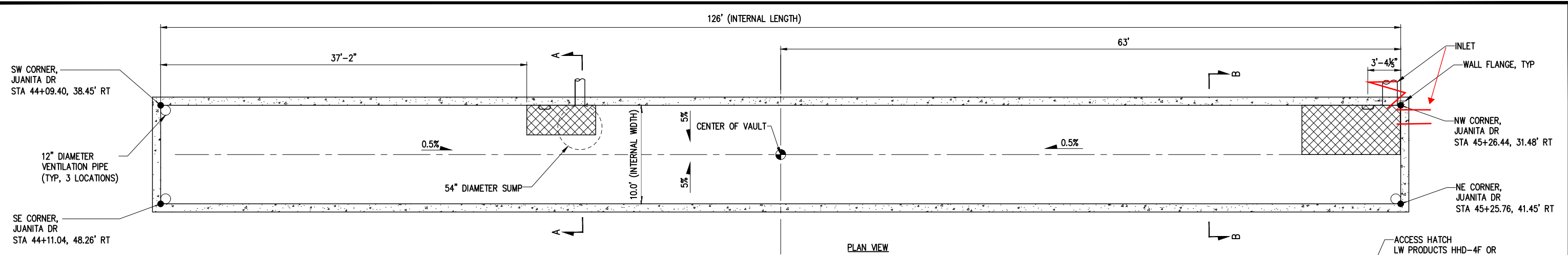
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 59+00 TO STA 63+00

**STORMWATER PLAN & PROFILE**

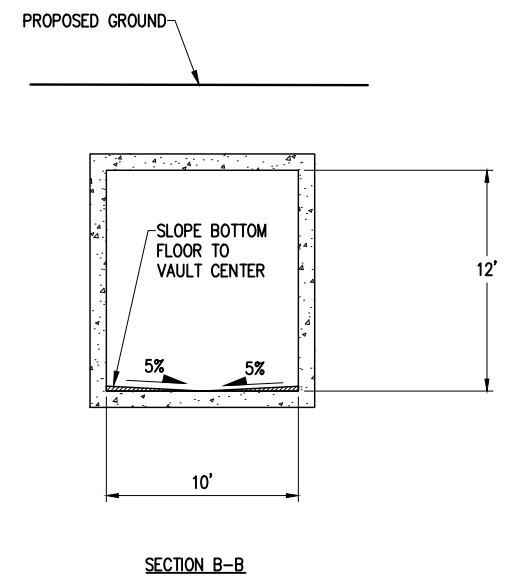
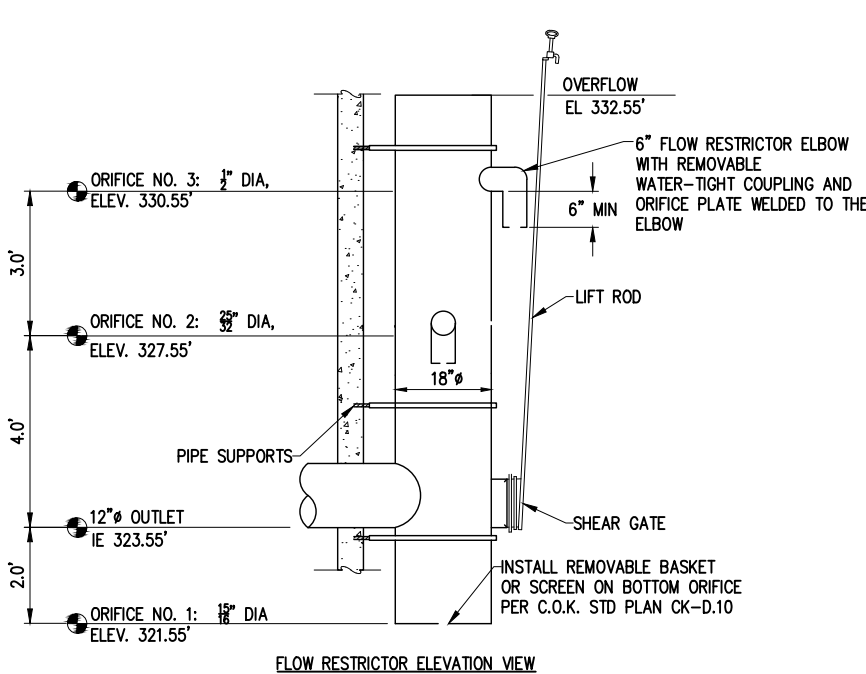
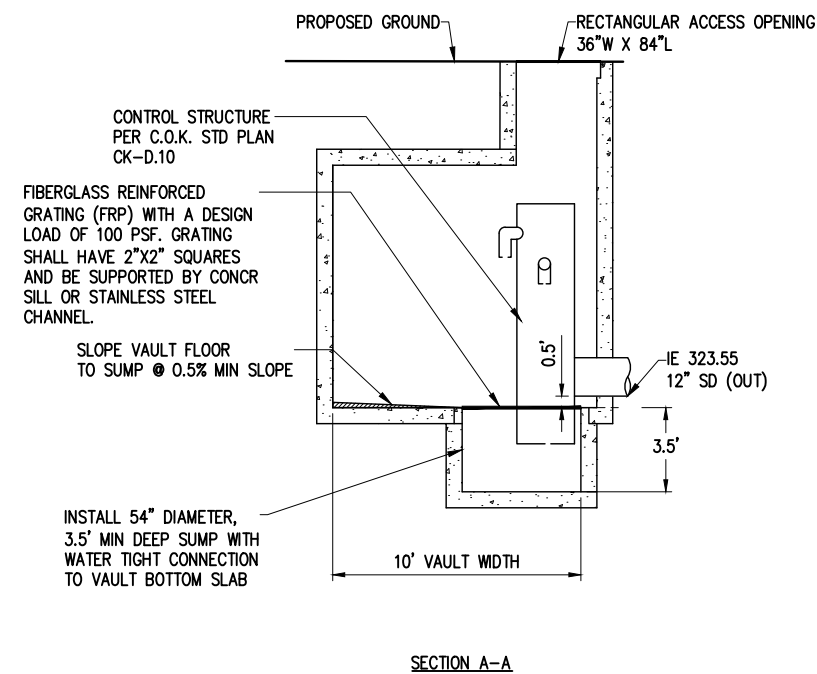
REFERENCE SHEET NO.
SHEET 29 OF 161 SHEETS

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**NOTES**

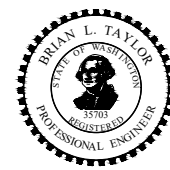
1. DETENTION VAULT PER C.O.K. STD PLAN CK-D.35 UNLESS OTHERWISE NOTED ON THIS SHEET.
2. FLOW RESTRICTOR PER C.O.K. STD PLAN CK-D.10 TO BE LOCATED INSIDE OF DETENTION VAULT. SEE ELEVATION VIEW FOR ORIFICE SIZE AND LOCATIONS.
3. CONTROL STRUCTURE TO BE LOCATED AT ACCESS OPENING. POSITION ORIFICES, AND SHEAR GATE SO THAT EACH IS VISIBLE FROM TOP OPENING.
4. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM WITH JOINTS GROUTED AFTER INSTALL.
5. ALL METAL PARTS SHALL BE CORROSION RESISTANT, EITHER ALUMINUM OR STAINLESS STEEL. FASTENERS MAY BE STAINLESS STEEL.
6. DESIGN LIVE LOAD (OVER AND AROUND VAULTS) FOR FIRE DEPARTMENT APPARATUS LOADING:
  - a. HS 20 TRUCK LOADING, AND;
  - b. STABILIZER OUTRIGGER MAXIMUM REACTION = 45,000-LBS CONCENTRATED LOAD; THIS LOAD MUST BE APPLIED ON AN 18-INCH BY 18-INCH AREA AND ALSO APPLIED AS AN UNFACTORED LOAD ON A 10-INCH BY 14-INCH AREA
7. ACCESS HATCHES FROM LW PRODUCTS COMPANY, OR APPROVED EQUIVALENT. ACCESS HATCH TO HAVE STAINLESS STEEL SPRING LIFTS, LOCKING SUPPORTS, STAINLESS STEEL HARDWARE, REMOVABLE ACCESS HATCH HANDLES, SELF-LATCHING STAINLESS STEEL SLAM LOCK, RECESSED PADLOCK HASP, AND NON-SKID ADA COMPLIANT SURFACE



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DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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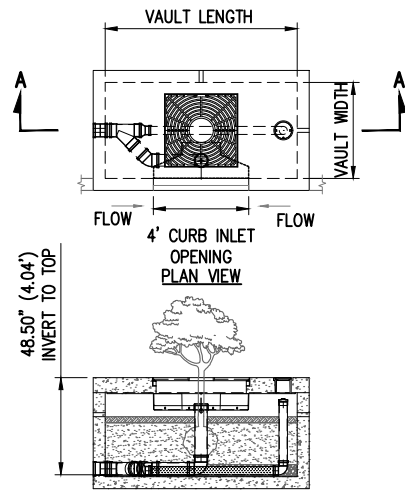
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**DETENTION VAULT DETAILS**

REFERENCE SHEET NO.
SHEET 30 OF 161 SHEETS

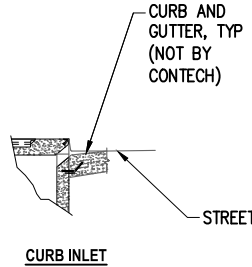
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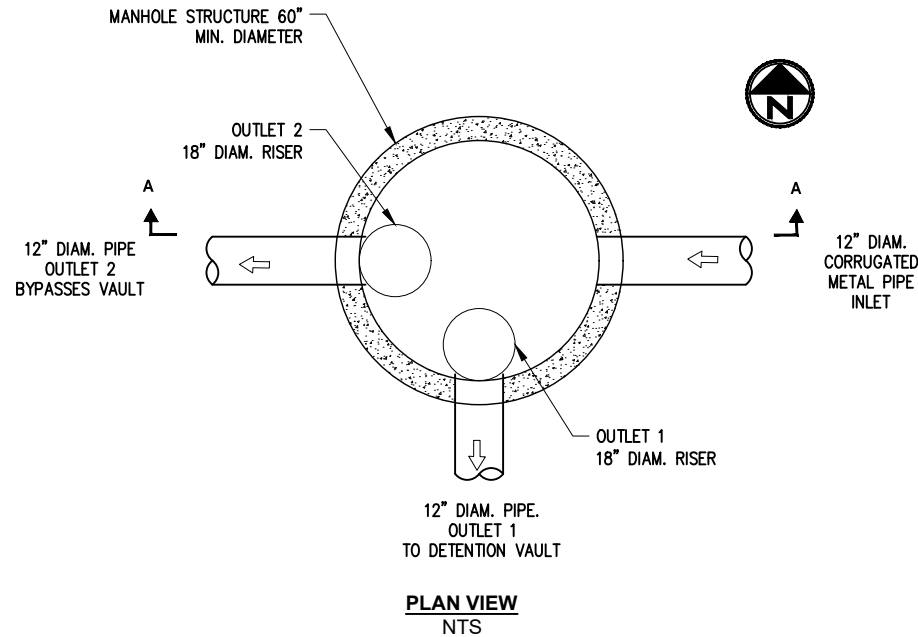
SECTION A-A  
LONG SIDE INLET CONFIGURATION

FTP-D DEEP OPTION CONFIGURATION							
DESIGNATION (OPTIONS: -P, -T, -PT)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	INLET/ OUTLET ACCESS DIA	TREE GRATE QTY & SIZE
FTP0404-D	N/A CA	4 x 4	4 x 6	1'-8"	4.6	12"/12"	(1) 3' x 3'

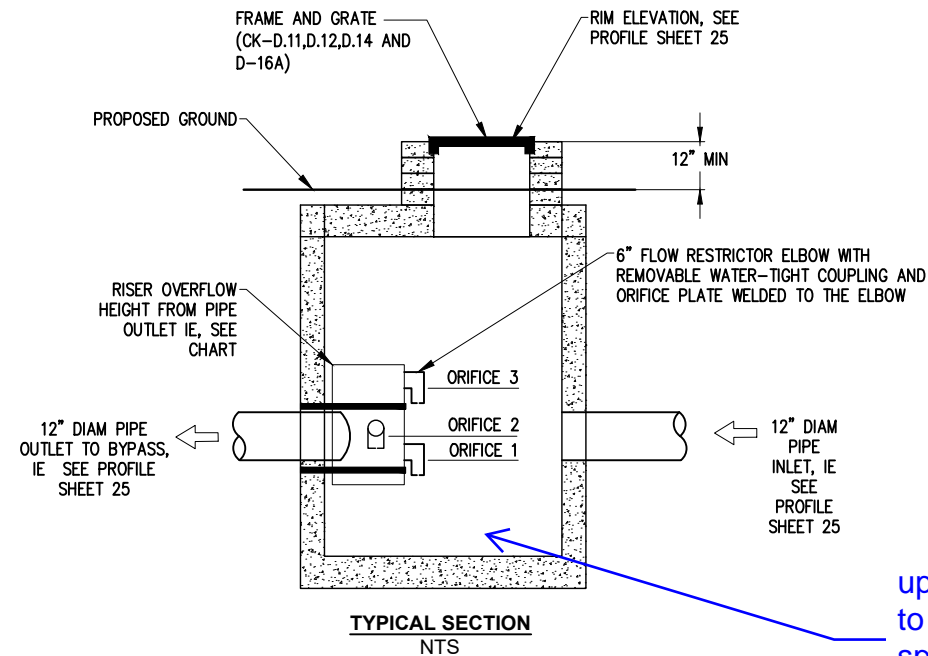
N/A = NOT AVAILABLE  
\*MAX BYPASS FLOW IS INTERNAL WEIR FLOW . SITE SPECIFIC ANALYSIS IS REQUIRED TO DETERMINE CURB INLET FLOW CAPACITY



FILTERRA DETAIL  
NTS



PLAN VIEW  
NTS



TYPICAL SECTION  
NTS

FTP-D DEEP OPTION CONFIGURATION		
	OUTLET 1, TO VAULT	OUTLET 2, BYPASS
RISER HEIGHT	2.5 FT	2 FT
RISER DIAMETER	18 IN	18 IN
OUTLET PIPE	12", SOUTH	12", WEST
ORIFICE 1	2 IN DIAM. 0 FT HEIGHT	2 1/4 IN DIAM. 0 FT HEIGHT
ORIFICE 2	1 1/2 IN DIAM. 0.5 FT HEIGHT	1 1/2 IN DIAM. 0.5 FT HEIGHT
ORIFICE 3	1 1/2 IN DIAM. 1.5 FT HEIGHT	2 IN DIAM. 1.5 FT HEIGHT

update typical section to look like flow splitter in KCSWDM Option B

FLOW SPLITTER DETAIL, STRUCTURE 32 AT STA 45+38.43 RT 2

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DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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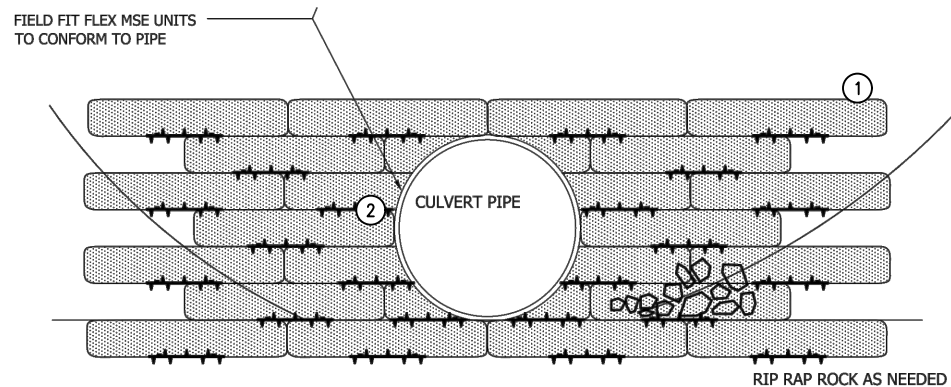
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**STORMWATER DETAILS**

REFERENCE SHEET NO.
SHEET 31 OF 161 SHEETS

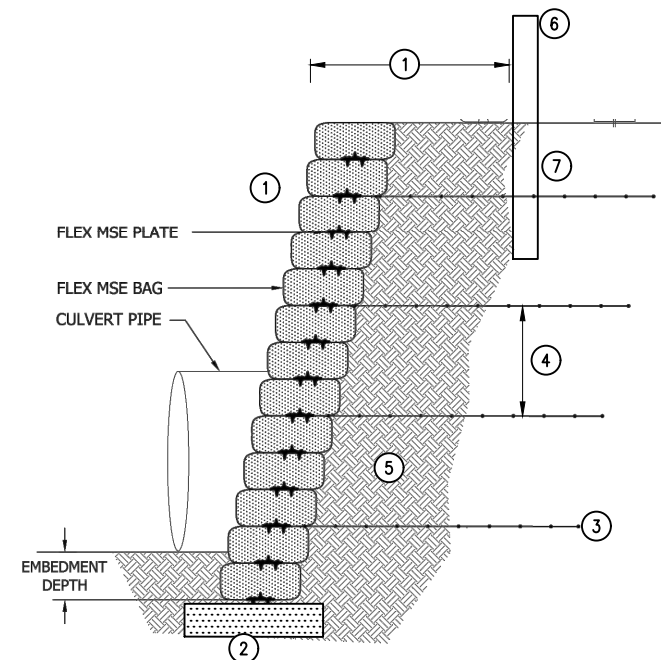
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**ROUND CULVERT ELEVATION**

**NOTES**

1. TURN END BAGS OF EACH ROW INTO EXISTING SLOPE AND EMBED A MINIMUM OF 1 FOOT BELOW SLOPE SURFACE.
2. FIELD FIT FLEX MSE UNITS TO CONFORM TO CULVERT PIPE.



**SECTION**

**NOTES**

1. FACE BATTER: INCLINE FACE TO PROVIDE 3-FOOT HORIZONTAL OFFSET FROM GUARDRAIL POST AT TOP OF SLOPE. MAXIMUM SLOPE 70-DEGREES.
2. FOUNDATION: EMBED 12-INCHES AND PLACE 6-INCH THICK CRUSHED GRAVEL PAD WSS-9-03.9(3) BASE COURSE.
3. GEOGRID REINFORCEMENT: TENSAR UX1500  
LENGTH = 0.6H  
WHERE H=TOTAL HEIGHT OF WALL
4. GEOGRID SPACING VERTICAL SPACING 18" MAXIMUM (APPROXIMATELY EVERY THIRD ROW OF FLEXMSE BAGS)
5. GRAVEL BORROW FOR STRUCTURAL EARTH WALL WSS 9-03.14(4) IN REINFORCED ZONE.
6. GUARDRAIL POST EMBEDMENT DEPTH PER WSS SPECIFICATIONS.
7. GUARDRAIL POST INSTALLATION: PLACE TUBE, PVC PIPE OR CANTILEVER FORM DURING CONSTRUCTION, CUT GEOGRID TRANSVERSE TO RIBS TO FIT AROUND FORM OR MARK LOCATIONS WITH EMBEDDED REBAR, CUT GRID TO POST DIMENSION AND HAND EXCAVATE AFTER CONSTRUCTION.

**FLEX BAG MSE CULVERT HEADWALL NEAR STATION 44+50 DETAIL 1**

NTS

DATE	NO.	REVISION	BY



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DESIGNED BY: TP	DRAWN BY: TP
9/2023	9/2023



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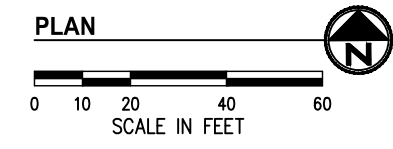
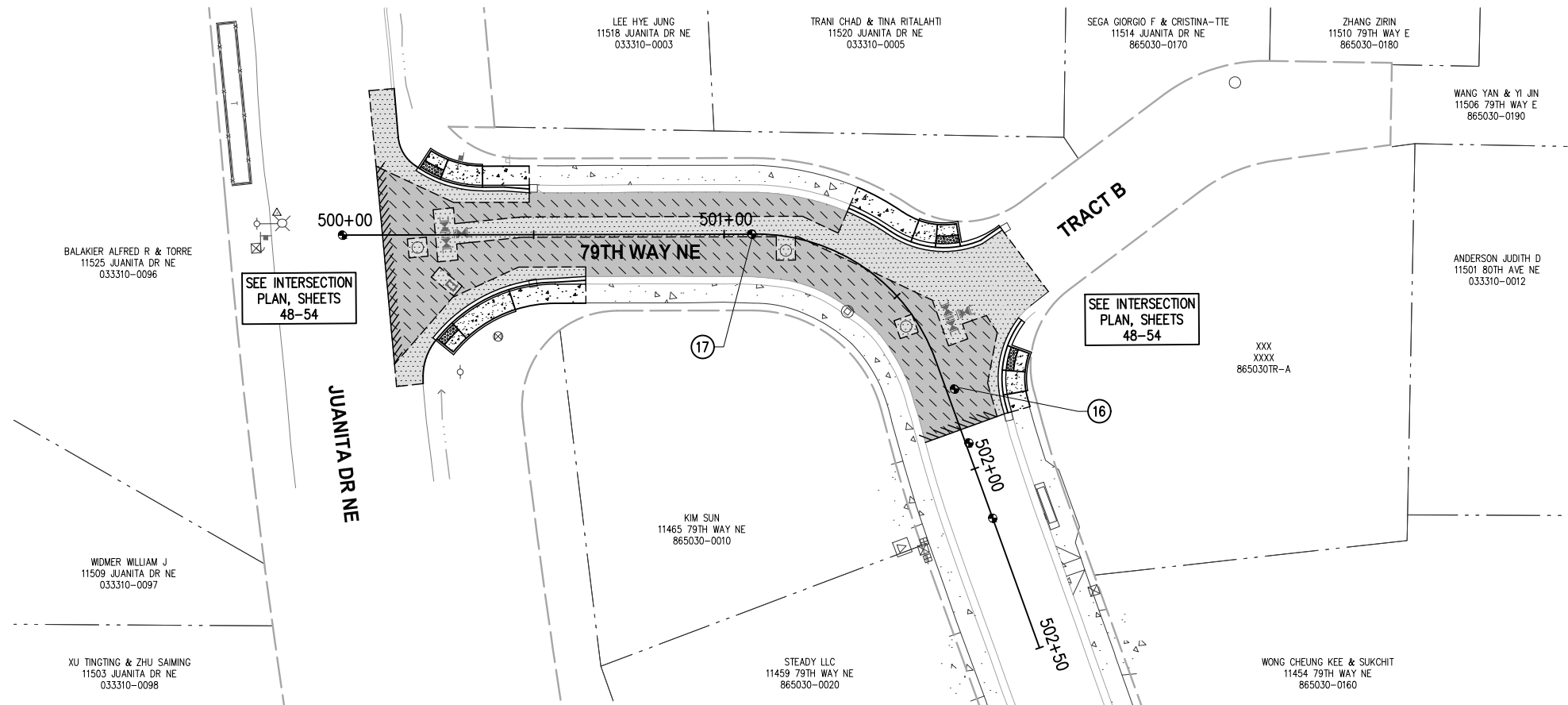
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

**STORMWATER DETAILS**

REFERENCE SHEET NO.
SHEET 32 OF 161 SHEETS



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**ALL COSTS ASSOCIATED WITH IMPROVEMENTS ON THIS SHEET WILL BE MEASURED AND PAID UNDER BID ITEMS IN SCHEDULE B**

**GENERAL NOTES**

1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

- 16 ADJUST MONUMENT CASE AND COVER
- 17 PERPETUATE MONUMENT, INSTALL MONUMENT CASE AND COVER PER C.O.K. STD PLAN CK-R.03

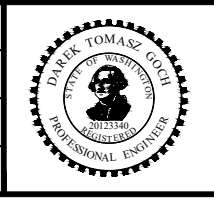
**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- APPROX. CUT DAYLIGHT LINE
- APPROX. FILL DAYLIGHT LINE
- SAWCUT PER SITE PREP PLAN SHEETS 9-16
- BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- FENCE, SEE WALL DETAILS FOR LOCATION
- WALL PER WALL PLAN SHEETS 55-62
- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- 2" GRIND & OVERLAY - SCHEDULE A
- 2" GRIND & OVERLAY - SCHEDULE B
- 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- STORM STRUCTURES, SEE STORM SHEETS 17-29
- SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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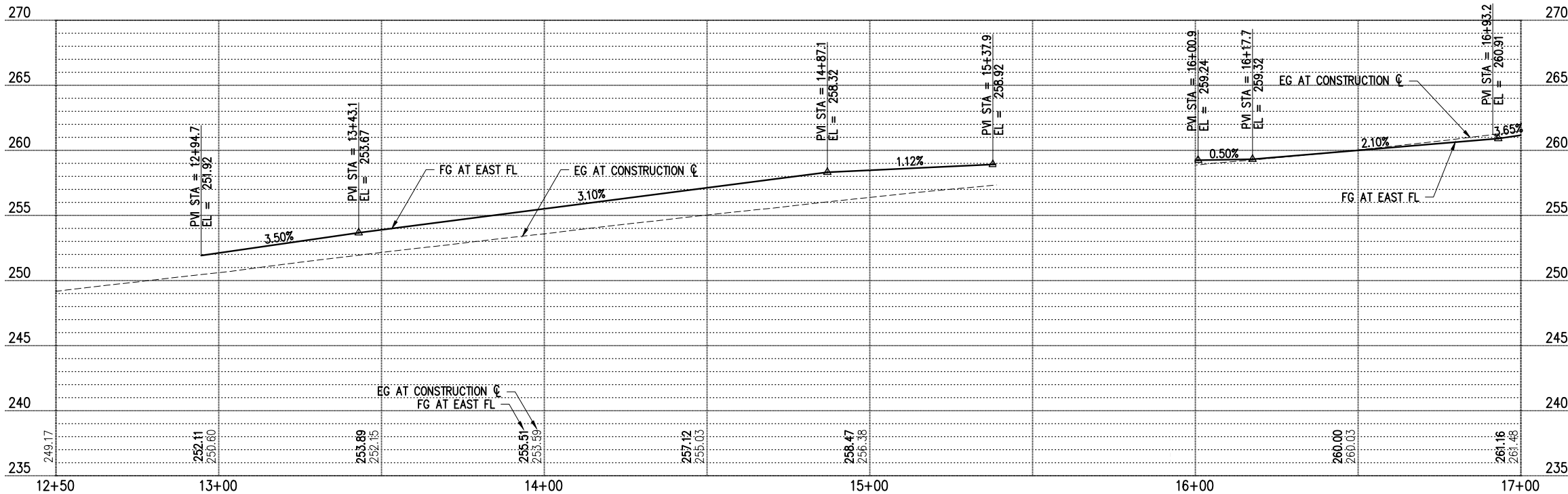
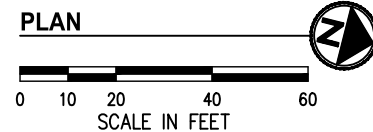
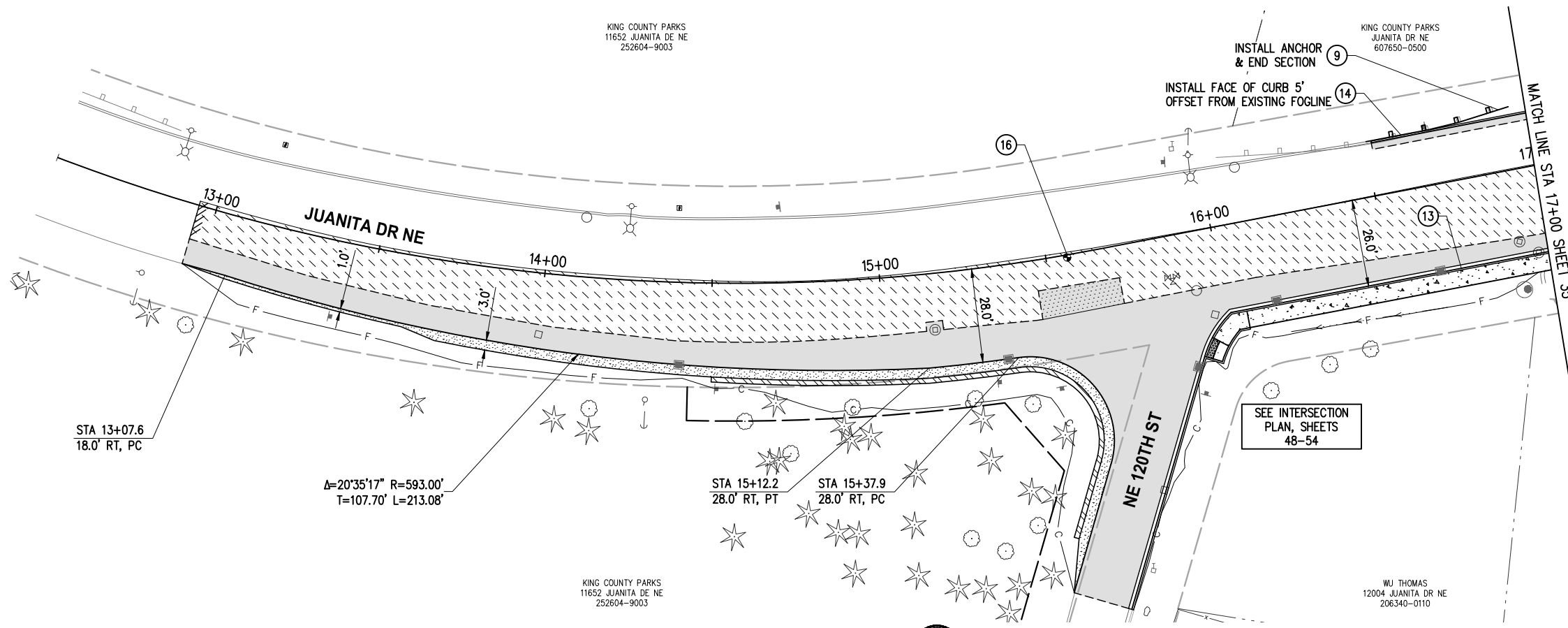
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**JUANITA DRIVE MULTIMODAL,  
 INTERSECTION & SAFETY IMPROVEMENTS**

STA 500+00 TO STA 502+50  
**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 33 OF 161 SHEETS

September 16, 2023 - 7:21 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (1) STA 12+50 TO STA 17+00



**GENERAL NOTES**

1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

9. INSTALL GUARDRAIL PER WSDOT STD PLAN C-20.10. ALIGN FACE OF GUARDRAIL WITH BACK OF CURB OR EDGE OF PAVEMENT. CONNECT TO EXISTING GUARDRAIL; INSTALL GUARDRAIL ANCHOR AND END SECTION PER WSDOT STD PLAN C-23.70 WHERE NOTED.
13. CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
14. EXTRUDED CEMENT CONC CURB PER C.O.K. STD PLAN CK-R.19
16. ADJUST MONUMENT CASE AND COVER

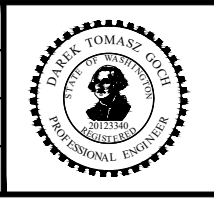
**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - APPROX. CUT DAYLIGHT LINE
- - - - - APPROX. FILL DAYLIGHT LINE
- - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- /// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x FENCE, SEE WALL DETAILS FOR LOCATION
- /// WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- [Symbol] ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

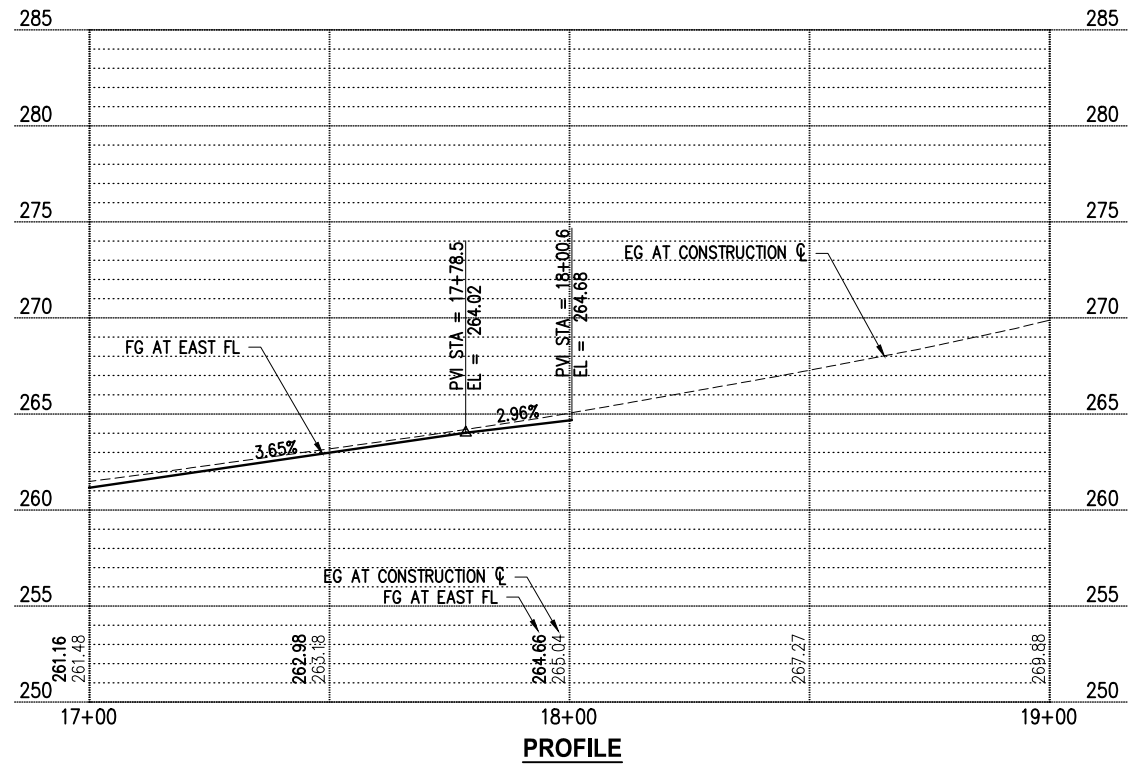
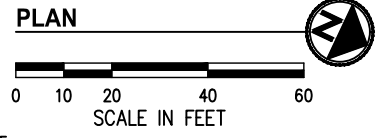
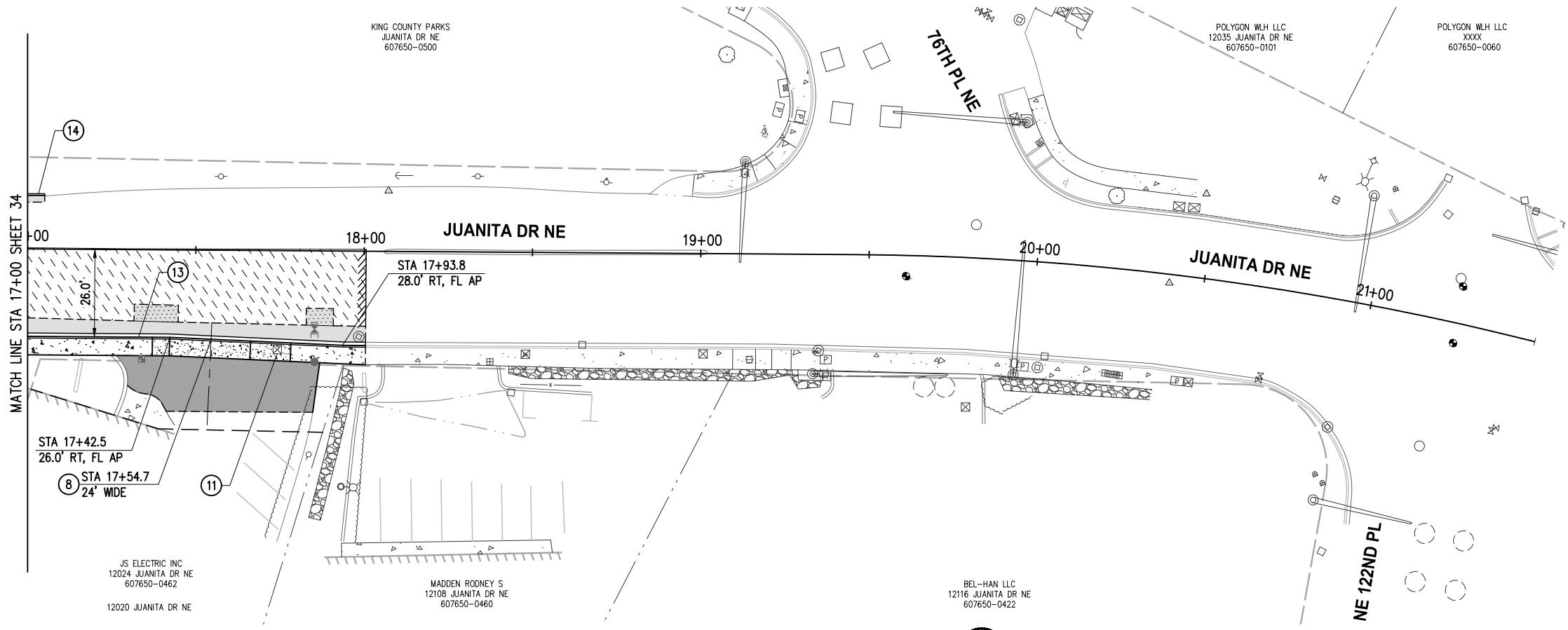
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 12+50 TO STA 17+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 34 OF 161 SHEETS

September 16, 2023 - 7:22 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (2) STA 17+00 TO STA 21+50



- ### GENERAL NOTES
- FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
  - FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
  - FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
  - FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
  - FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
  - FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
  - CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
  - AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

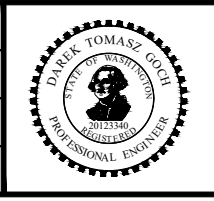
- ### CONSTRUCTION NOTES
- CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
  - RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
  - CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
  - EXTRUDED CEMENT CONC CURB PER C.O.K. STD PLAN CK-R.19

- ### LEGEND
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - APPROX. CUT DAYLIGHT LINE
  - APPROX. FILL DAYLIGHT LINE
  - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - FENCE, SEE WALL DETAILS FOR LOCATION
  - WALL PER WALL PLAN SHEETS 55-62
  - CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - 2" GRIND & OVERLAY - SCHEDULE A
  - 2" GRIND & OVERLAY - SCHEDULE B
  - 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - STORM STRUCTURES, SEE STORM SHEETS 17-29
  - SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
  - ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

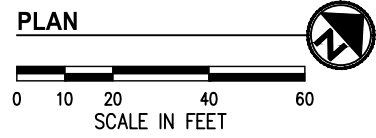
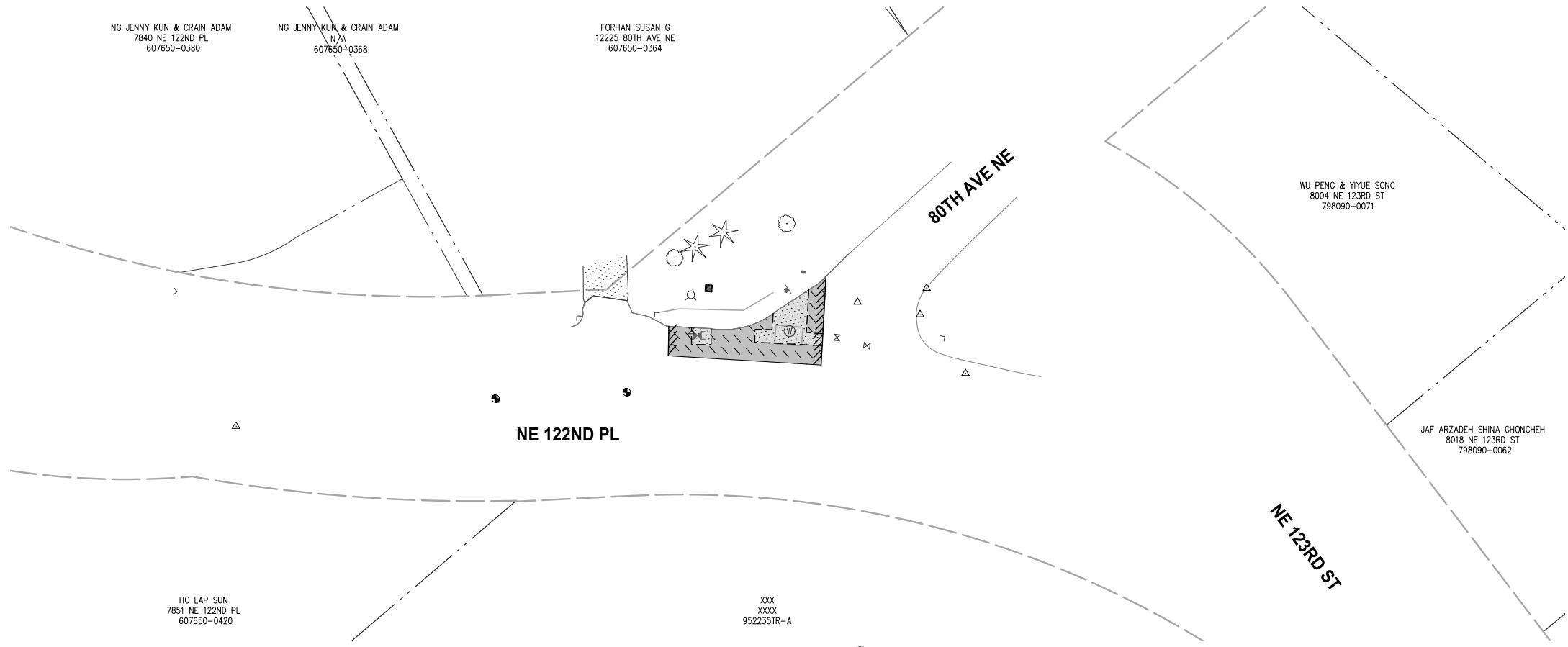
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 17+00 TO STA 21+50

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 35 OF 161 SHEETS

September 16, 2023 - 7:23 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\AL\NO.1.DWG - Layout Name: RD (2) NE 122ND PL & 80TH AVE NE



**ALL COSTS ASSOCIATED WITH IMPROVEMENTS ON THIS SHEET WILL BE MEASURED AND PAID UNDER BID ITEMS IN SCHEDULE B**

- GENERAL NOTES**
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
  2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
  3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
  4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
  5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
  6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
  7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
  8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

- LEGEND**
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - APPROX. CUT DAYLIGHT LINE
  - APPROX. FILL DAYLIGHT LINE
  - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - FENCE, SEE WALL DETAILS FOR LOCATION
  - WALL PER WALL PLAN SHEETS 55-62
  - CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - 2" GRIND & OVERLAY - SCHEDULE A
  - 2" GRIND & OVERLAY - SCHEDULE B
  - 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - STORM STRUCTURES, SEE STORM SHEETS 17-29
  - SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
  - ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

DATE	NO.	REVISION	BY



UPI NO.:  
SURVEY NO.:  
HORZ. DATUM:  
WSPCS, N ZONE, NAD 83/11  
DESIGNED BY:  
DG 9/2023

FED. AID PROJ. NO.:  
FIELD BOOK(S):  
VERT. DATUM:  
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DRAWN BY:  
DG 9/2023



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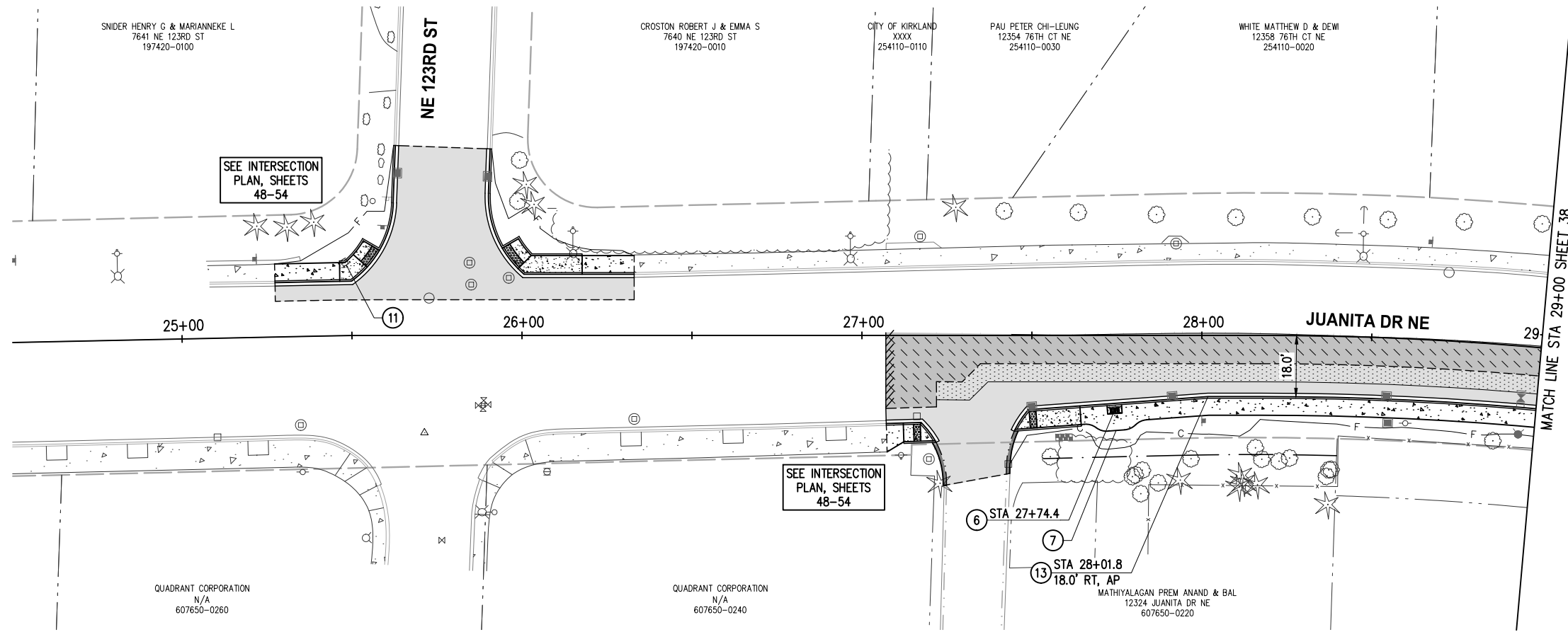
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

NE 122ND PL & 80TH AVE NE

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 36 OF 161 SHEETS

September 16, 2023 - 7:25 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (3) STA 24+50 TO STA 29+00



**GENERAL NOTES**

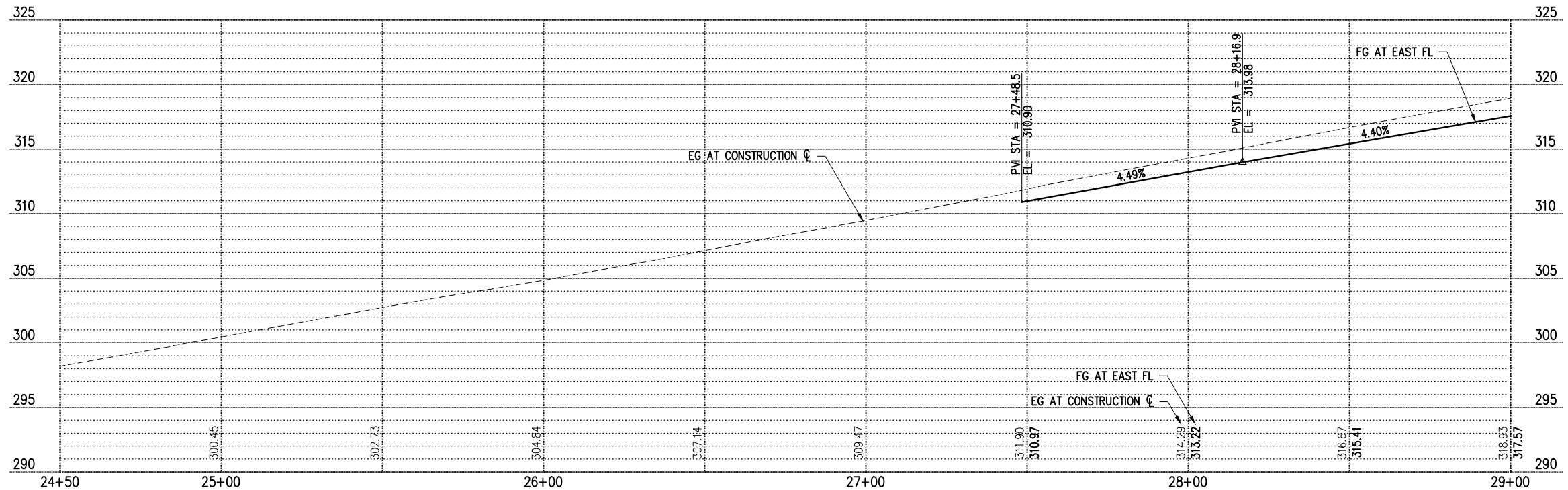
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

- 6 MAILBOX CLUSTER PER C.O.K. STD PLAN CK-R.45A. INSTALL 4" CSTC PAD BELOW MAILBOX CLUSTER. CSTC PAD DIMENSIONS SHALL MATCH MAILBOX CLUSTER ROOF PERIMETER AND EXTEND TO BACK OF CURB
- 7 PEDESTRIAN PATH WIDENING PER DETAIL 1, SHEET 8
- 11 RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
- 13 CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- c- APPROX. CUT DAYLIGHT LINE
- f- APPROX. FILL DAYLIGHT LINE
- - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- //// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x- FENCE, SEE WALL DETAILS FOR LOCATION
- ==== WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- [Symbol] ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

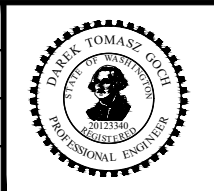


**PROFILE**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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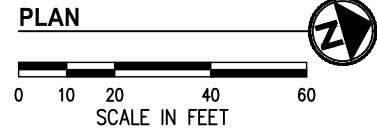
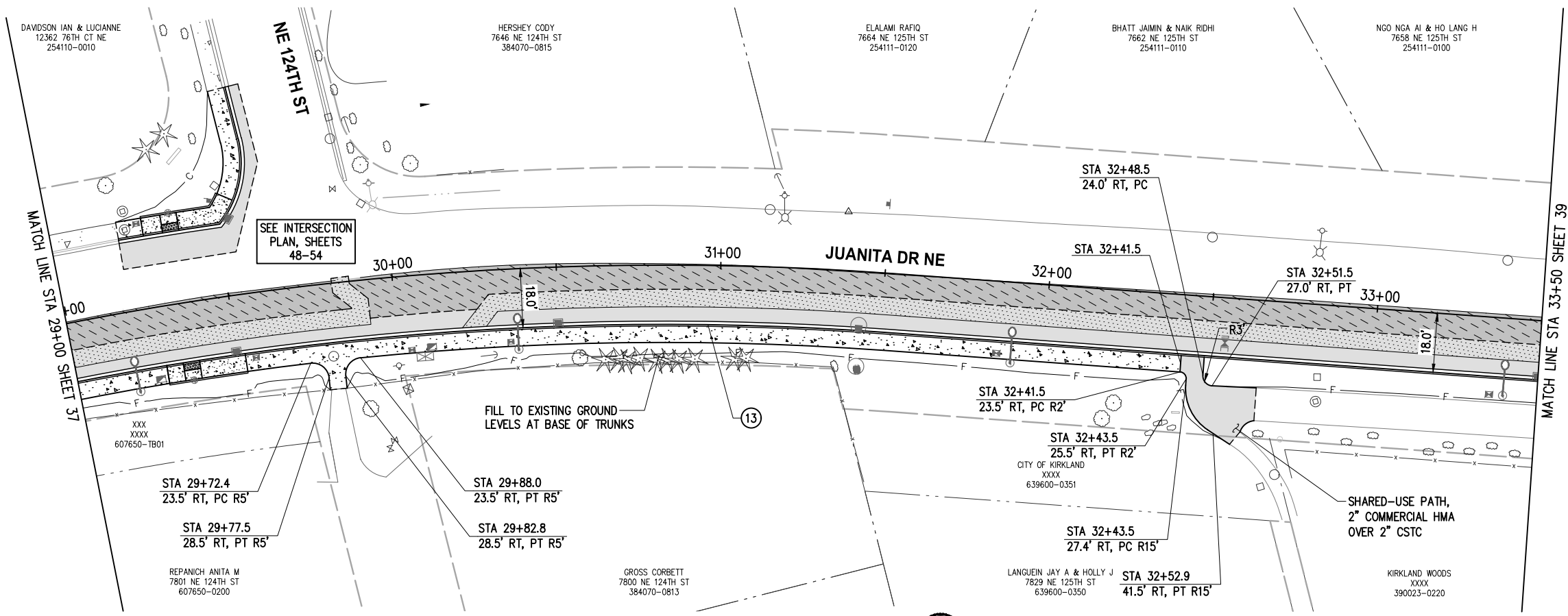
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 24+50 TO STA 29+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 37 OF 161 SHEETS

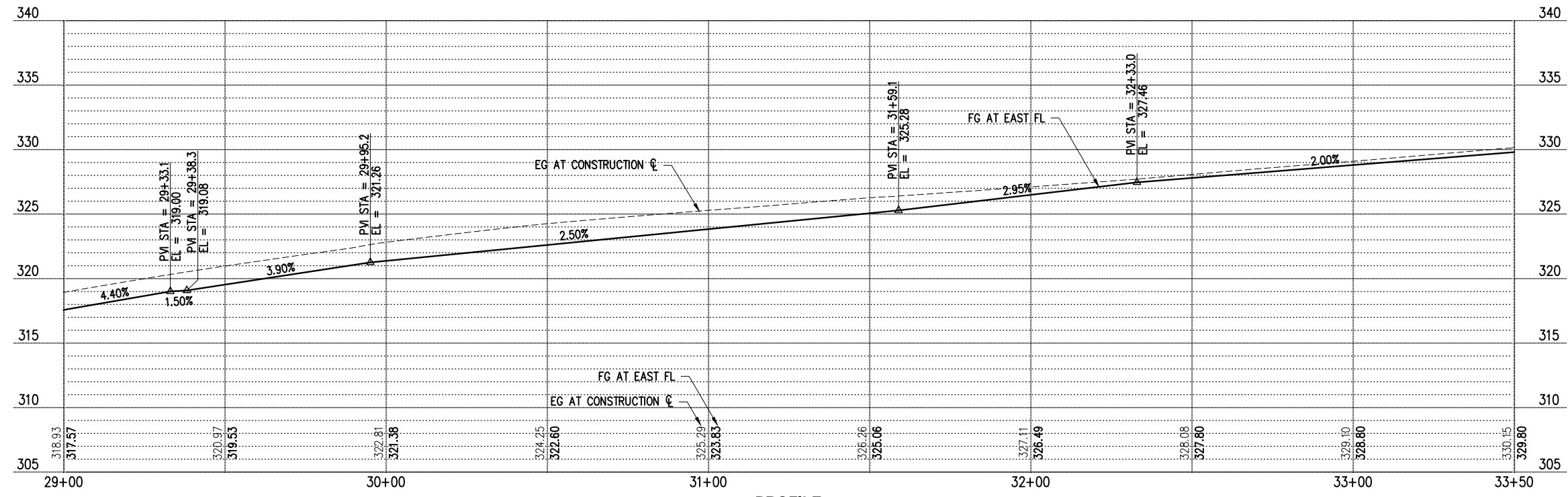
September 16, 2023 - 7:26 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (4) STA 29+00 TO STA 33+50



- ### GENERAL NOTES
- FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
  - FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
  - FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
  - FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
  - FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
  - FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
  - CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
  - AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

- ### CONSTRUCTION NOTES
- CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

- ### LEGEND
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - APPROX. CUT DAYLIGHT LINE
  - APPROX. FILL DAYLIGHT LINE
  - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - FENCE, SEE WALL DETAILS FOR LOCATION
  - WALL PER WALL PLAN SHEETS 55-62
  - CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - 2" GRIND & OVERLAY - SCHEDULE A
  - 2" GRIND & OVERLAY - SCHEDULE B
  - 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - STORM STRUCTURES, SEE STORM SHEETS 17-29
  - SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
  - ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

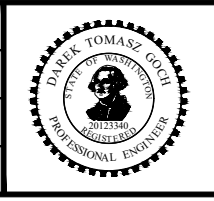


PROFILE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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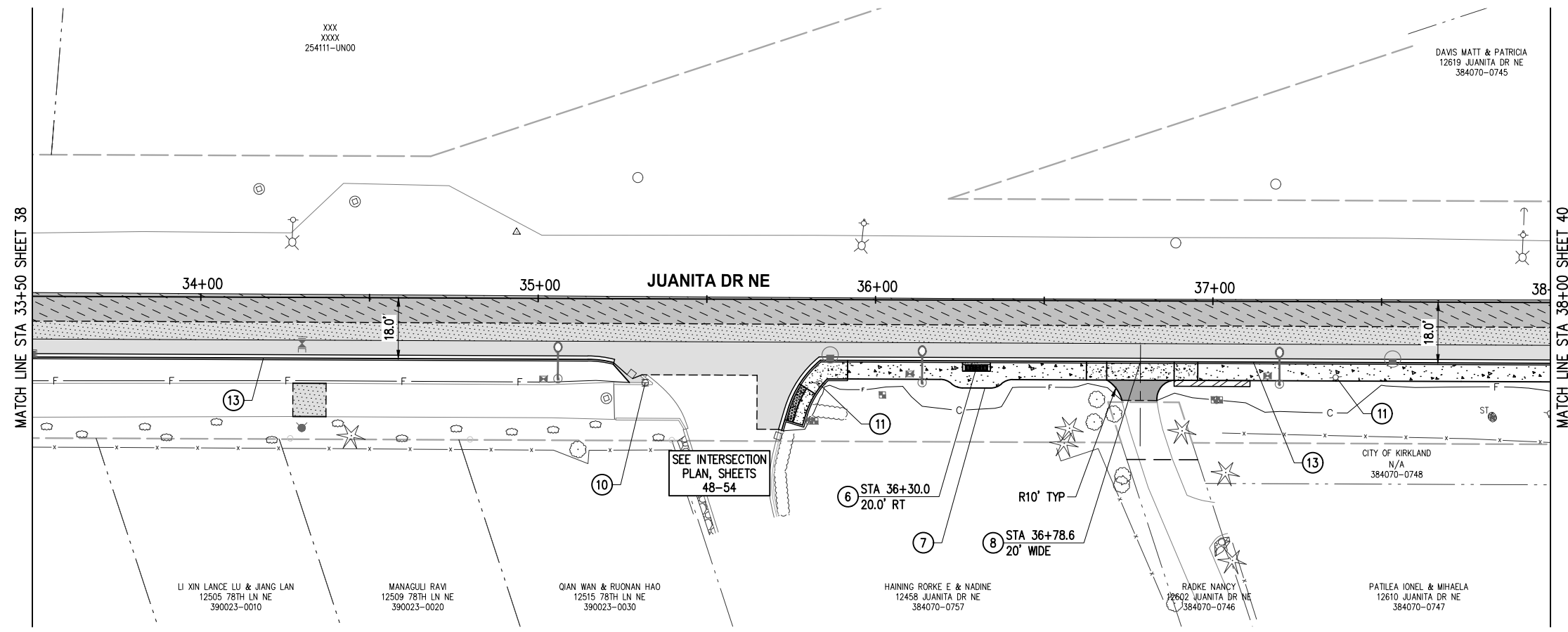
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 29+00 TO STA 33+50

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 38 OF 161 SHEETS

September 16, 2023 - 7:26 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (5) STA 33+50 TO STA 38+00



**GENERAL NOTES**

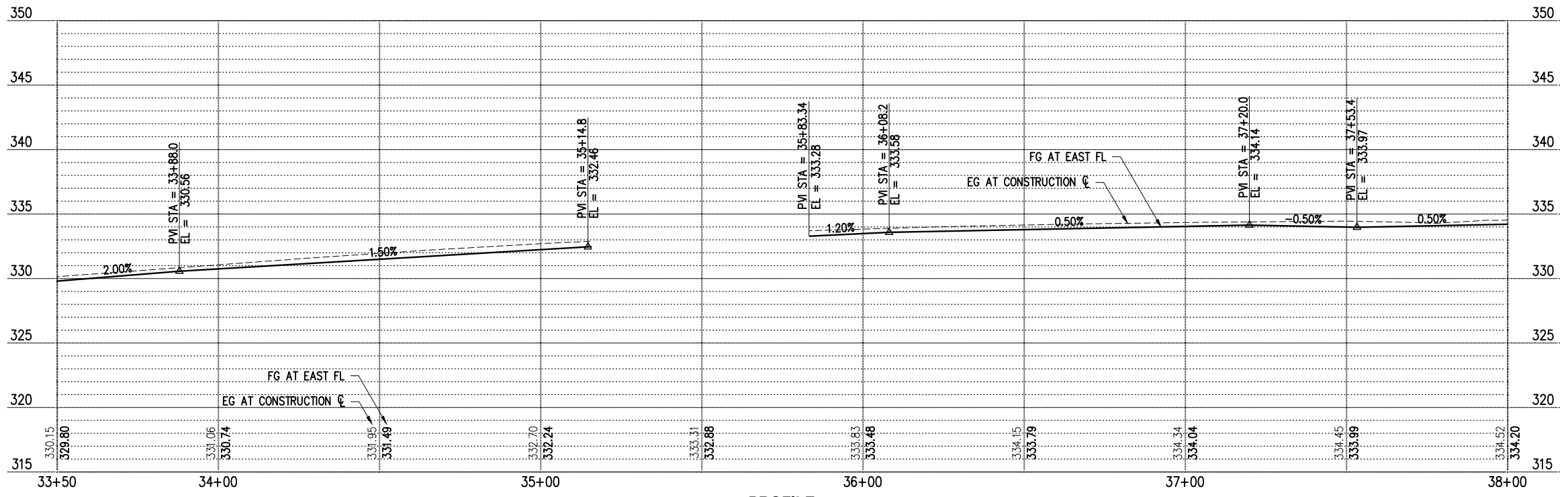
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
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8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

6. MAILBOX CLUSTER PER C.O.K. STD PLAN CK-R.45A. INSTALL 4" CTSC PAD BELOW MAILBOX CLUSTER. CTSC PAD DIMENSIONS SHALL MATCH MAILBOX CLUSTER ROOF PERIMETER AND EXTEND TO BACK OF CURB
7. PEDESTRIAN PATH WIDENING PER DETAIL 1, SHEET 8
8. CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
10. ADJUST GAS VALVE TO FINISHED GRADE
11. RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
13. CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

**LEGEND**

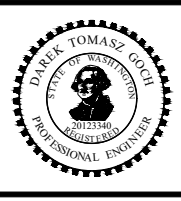
- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- c- APPROX. CUT DAYLIGHT LINE
- f- APPROX. FILL DAYLIGHT LINE
- - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- //// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x- FENCE, SEE WALL DETAILS FOR LOCATION
- //// WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- [Symbol] ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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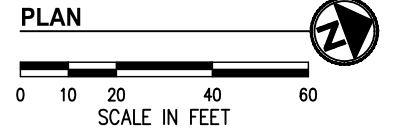
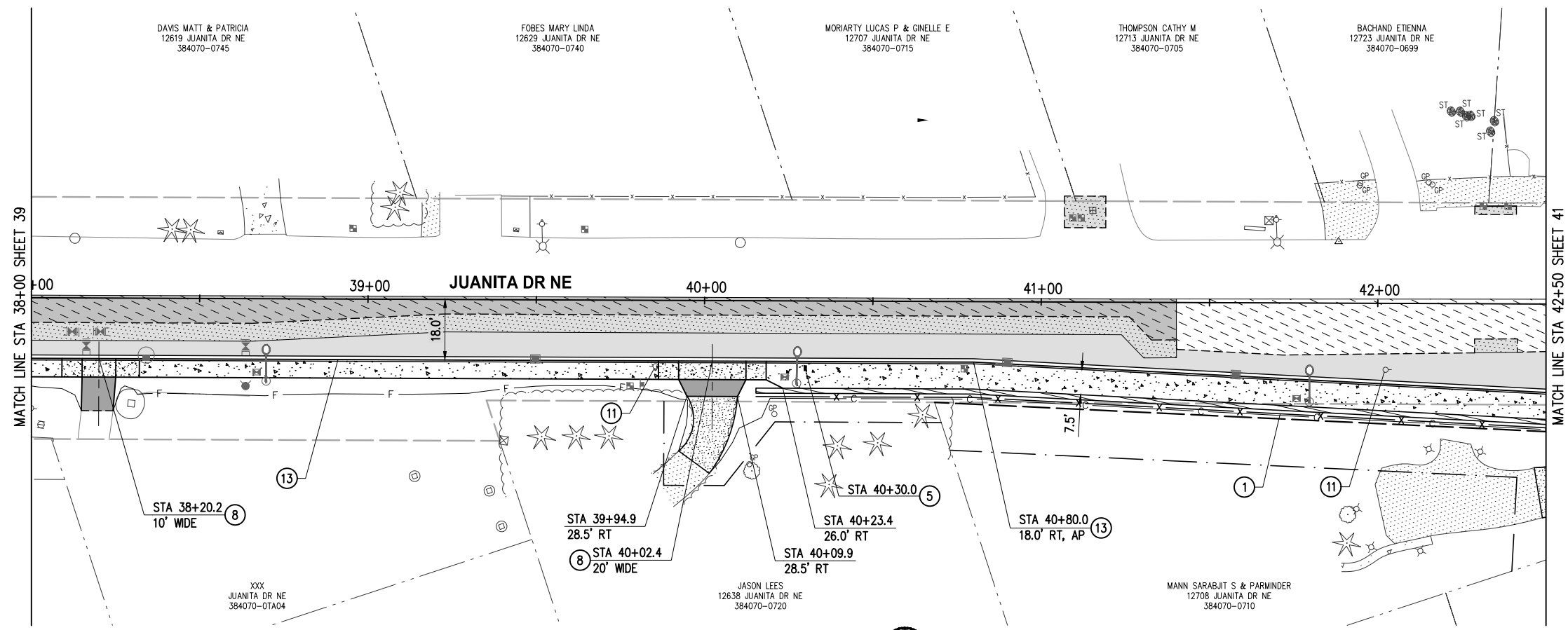
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 38+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 39 OF 161 SHEETS

September 16, 2023 - 7:27 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N02.DWG - Layout Name: RD (6) STA 38+00 TO STA 42+50



**GENERAL NOTES**

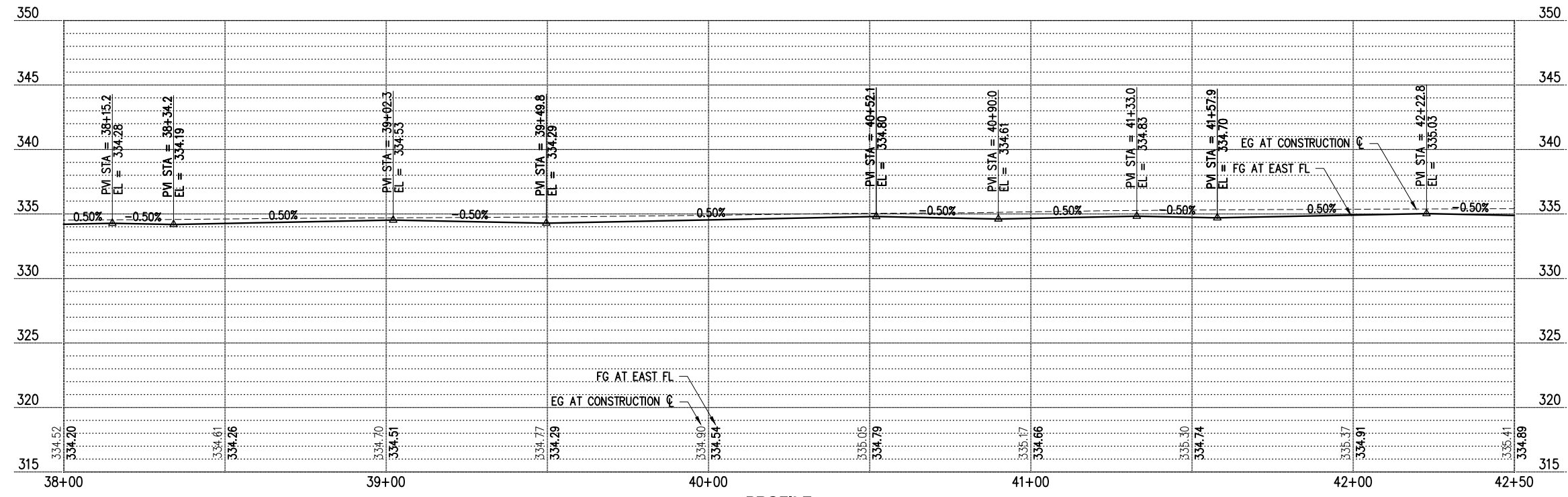
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

- ① 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R.51A
- ⑤ REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10
- ⑧ CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
- ⑪ RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
- ⑬ CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

**LEGEND**

- — — — — RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - APPROX. CUT DAYLIGHT LINE
- - - - - APPROX. FILL DAYLIGHT LINE
- - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- ////// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x - - - FENCE, SEE WALL DETAILS FOR LOCATION
- ===== WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- [Symbol] ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

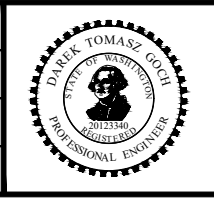


**PROFILE**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

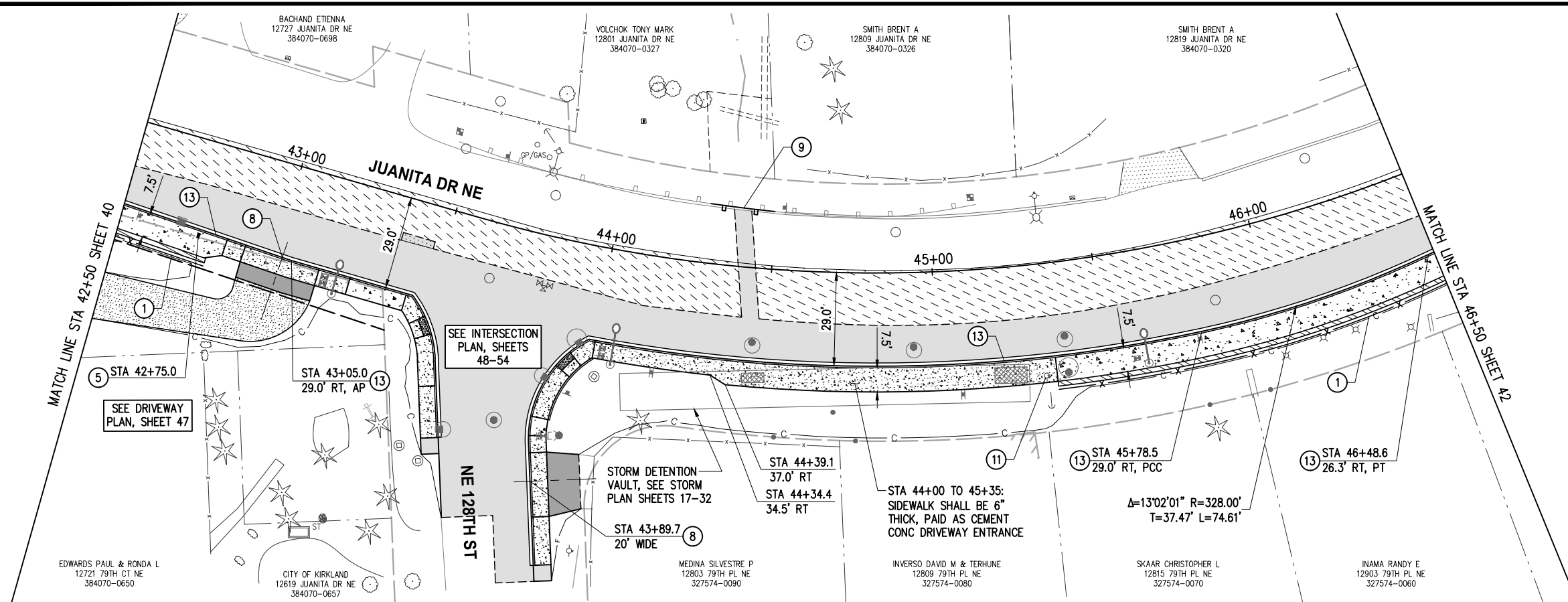
STA 38+00 TO STA 42+50

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 40 OF 161 SHEETS



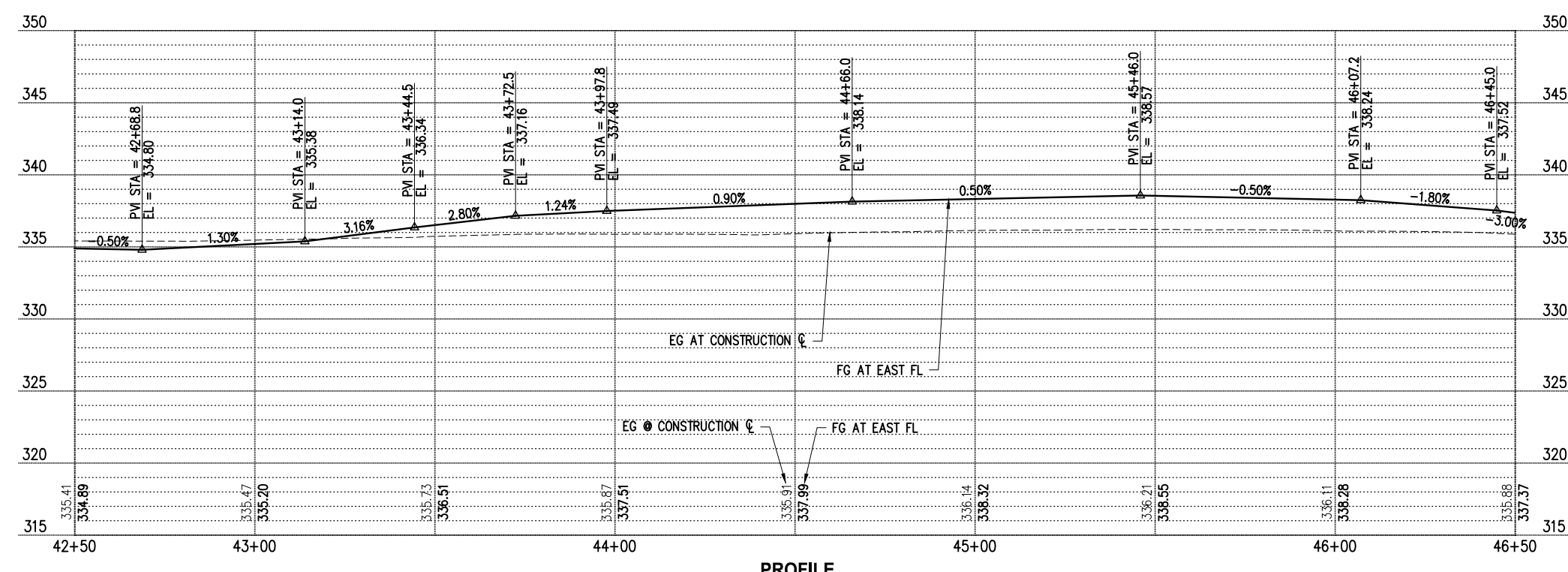
September 16, 2023 - 7:29 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N03.DWG - Layout Name: RD (1) STA 42+50 TO STA 46+50



- GENERAL NOTES**
- FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
  - FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
  - FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
  - FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
  - FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
  - FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
  - CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
  - AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

- CONSTRUCTION NOTES**
- 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R.51A
  - REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10
  - CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
  - INSTALL GUARDRAIL PER WSDOT STD PLAN C-20.10. ALIGN FACE OF GUARDRAIL WITH BACK OF CURB OR EDGE OF PAVEMENT. CONNECT TO EXISTING GUARDRAIL; INSTALL GUARDRAIL ANCHOR AND END SECTION PER WSDOT STD PLAN C-23.70 WHERE NOTED.
  - RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
  - CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

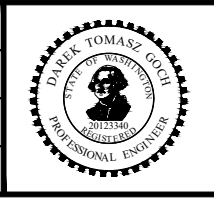
- LEGEND**
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - APPROX. CUT DAYLIGHT LINE
  - APPROX. FILL DAYLIGHT LINE
  - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - FENCE, SEE WALL DETAILS FOR LOCATION
  - WALL PER WALL PLAN SHEETS 55-62
  - CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - 2" GRIND & OVERLAY - SCHEDULE A
  - 2" GRIND & OVERLAY - SCHEDULE B
  - 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - STORM STRUCTURES, SEE STORM SHEETS 17-29
  - SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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FUNDING NO. 19065

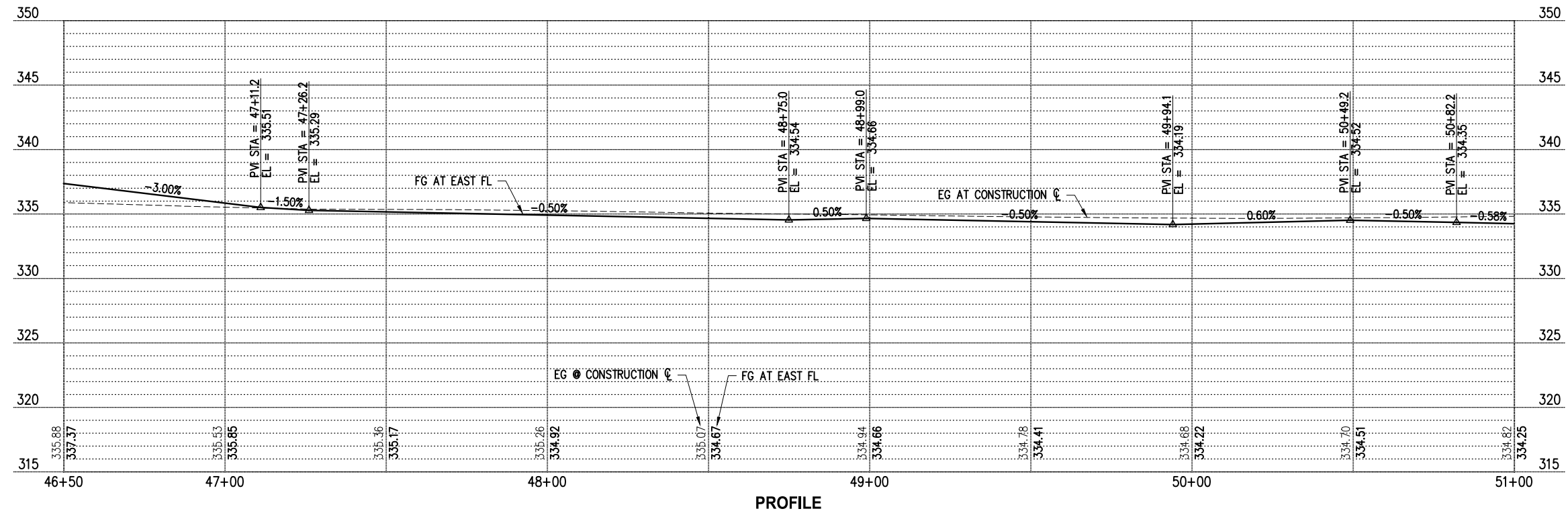
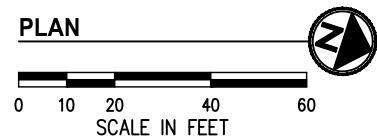
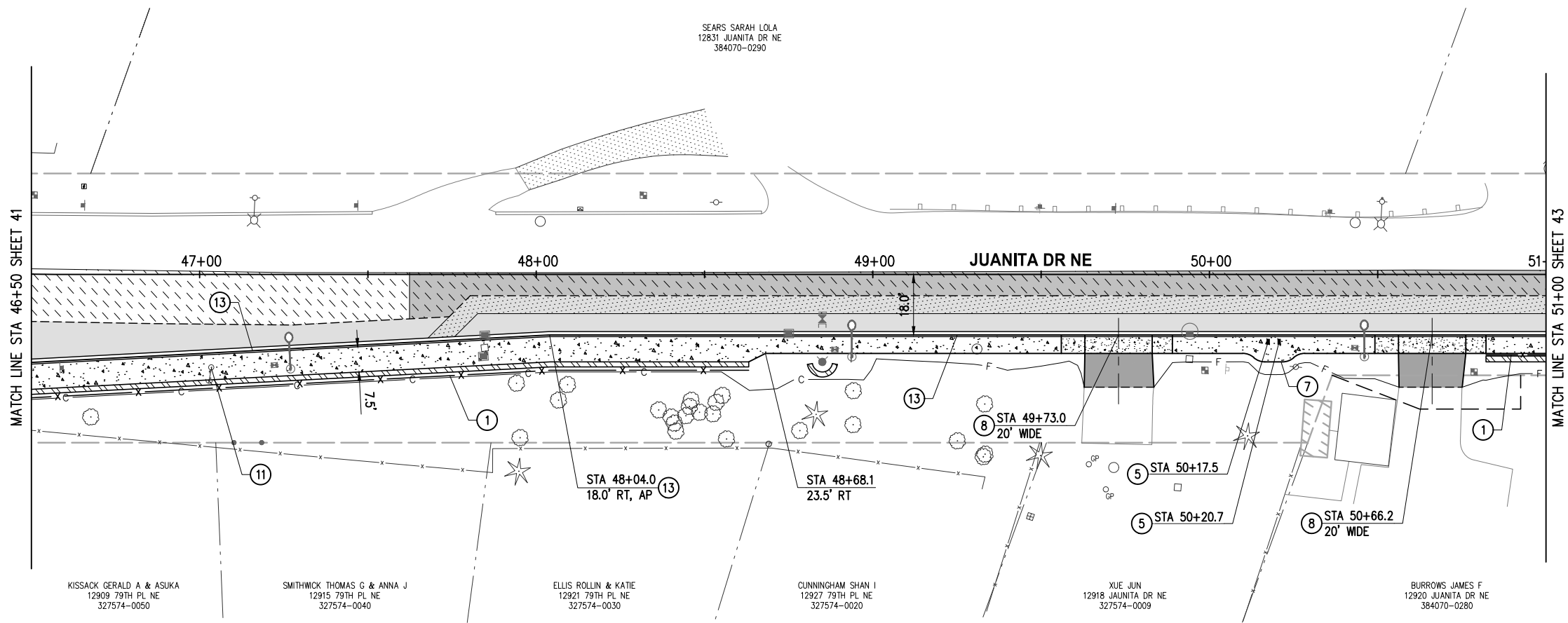
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 42+50 TO STA 46+50

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 41 OF 161 SHEETS

September 16, 2023 - 7:30 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N03.DWG - Layout Name: RD (2) STA 46+50 TO STA 51+00



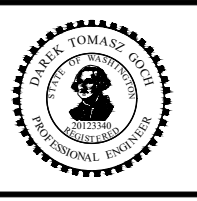
- ### CONSTRUCTION NOTES
- 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R.51A
  - REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10
  - PEDESTRIAN PATH WIDENING PER DETAIL 1, SHEET 8
  - CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
  - RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
  - CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

- ### LEGEND
- RIGHT OF WAY
  - ... TEMPORARY CONSTRUCTION EASEMENT
  - C --- APPROX. CUT DAYLIGHT LINE
  - F --- APPROX. FILL DAYLIGHT LINE
  - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - /// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - x --- FENCE, SEE WALL DETAILS FOR LOCATION
  - /// WALL PER WALL PLAN SHEETS 55-62
  - [Stippled] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - [Stippled] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - [Hatched] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - [Hatched] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - [Hatched] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - [Hatched] 2" GRIND & OVERLAY - SCHEDULE A
  - [Hatched] 2" GRIND & OVERLAY - SCHEDULE B
  - [Hatched] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - [Square] STORM STRUCTURES, SEE STORM SHEETS 17-29
  - [Triangle] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - [Circle] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
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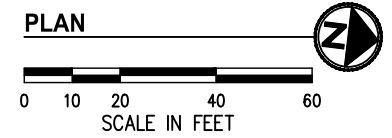
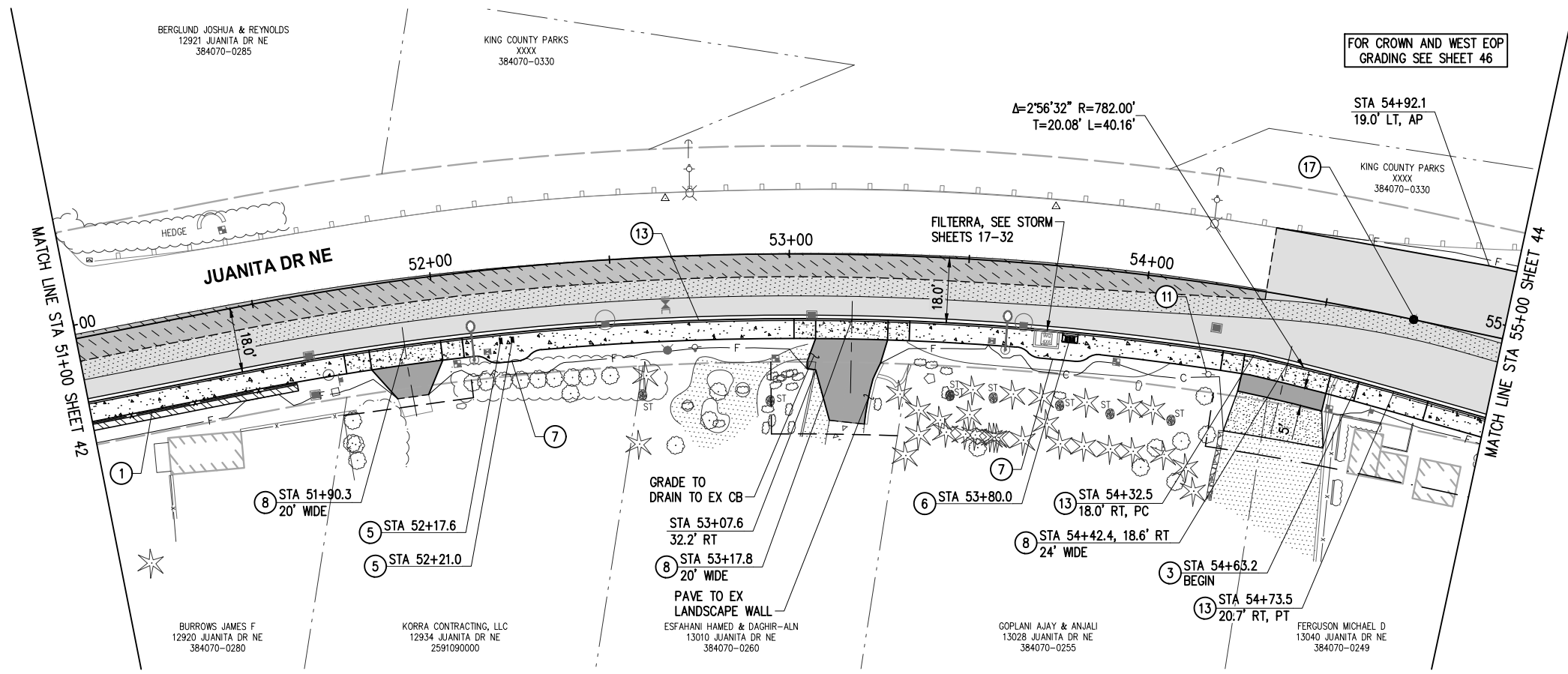
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 46+50 TO STA 51+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 42 OF 161 SHEETS

September 16, 2023 - 7:31 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N03.DWG - Layout Name: RD (3) STA 51+00 TO STA 55+00



**GENERAL NOTES**

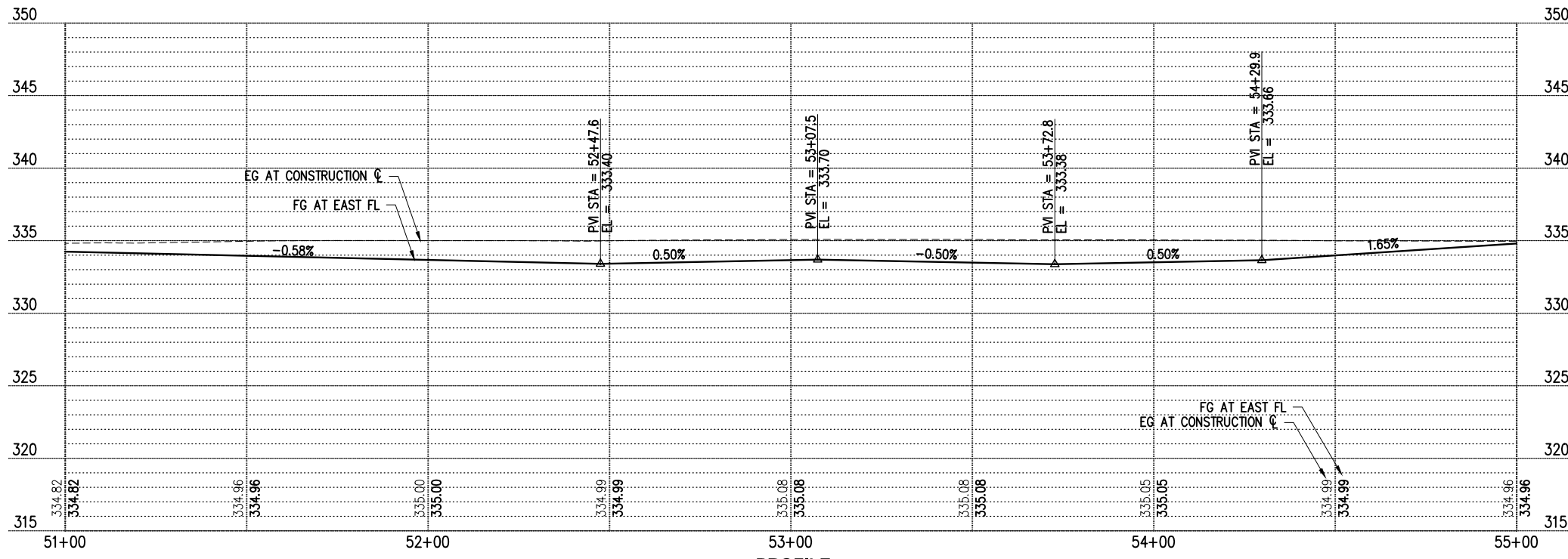
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

- 1 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R.51A
- 3 RAISED SIDEWALK AND SAFETY RAILING PER DETAIL 4, SHEET 8
- 5 REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10
- 6 MAILBOX CLUSTER PER C.O.K. STD PLAN CK-R.45A. INSTALL 4" CTSC PAD BELOW MAILBOX CLUSTER. CTSC PAD DIMENSIONS SHALL MATCH MAILBOX CLUSTER ROOF PERIMETER AND EXTEND TO BACK OF CURB
- 7 PEDESTRIAN PATH WIDENING PER DETAIL 1, SHEET 8
- 8 CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
- 11 RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
- 13 CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- 17 PERPETUATE MONUMENT, INSTALL MONUMENT CASE AND COVER PER C.O.K. STD PLAN CK-R.03

**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- C- APPROX. CUT DAYLIGHT LINE
- F- APPROX. FILL DAYLIGHT LINE
- - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- /// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x FENCE, SEE WALL DETAILS FOR LOCATION
- /// WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147

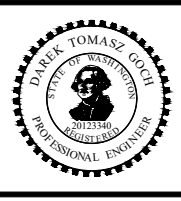


**PROFILE**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
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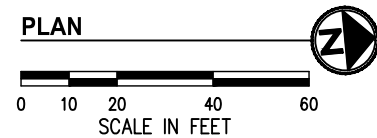
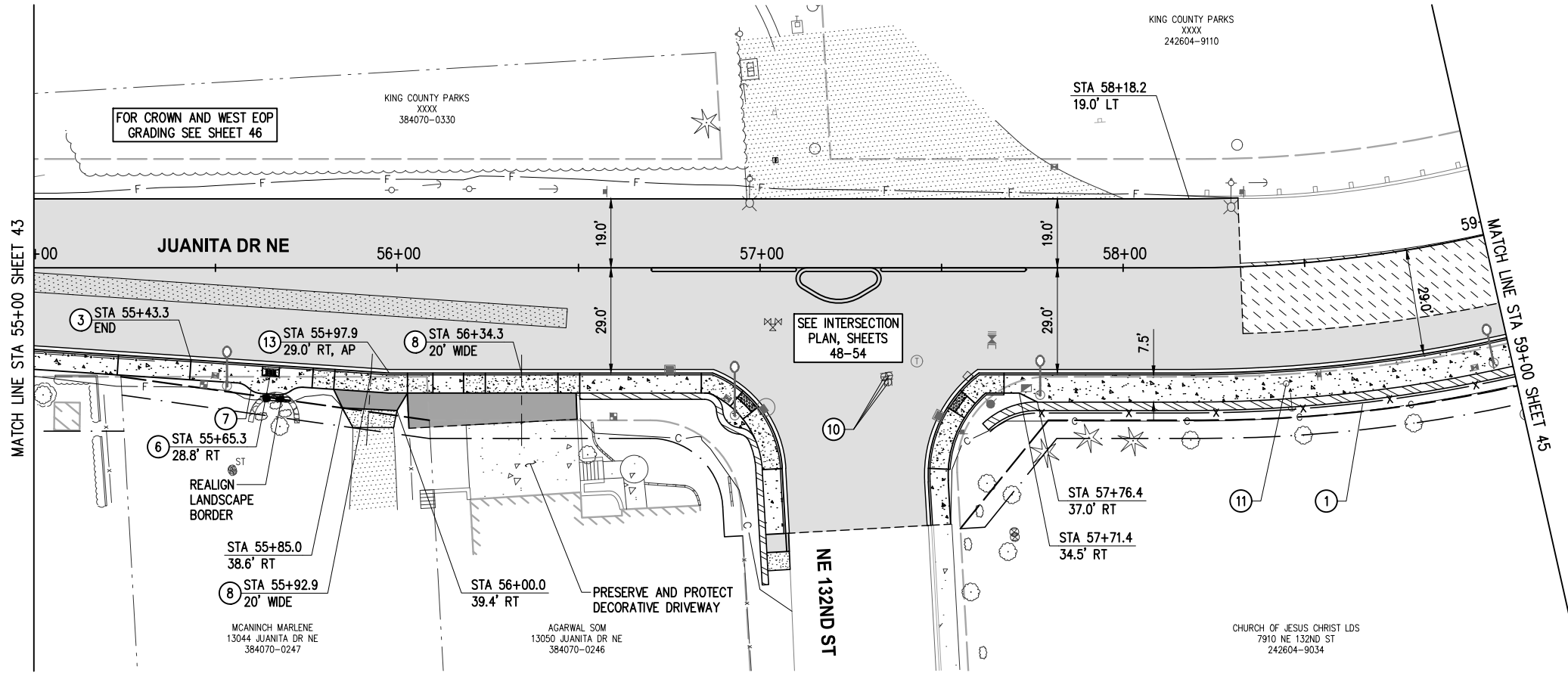
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 51+00 TO STA 55+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 43 OF 161 SHEETS

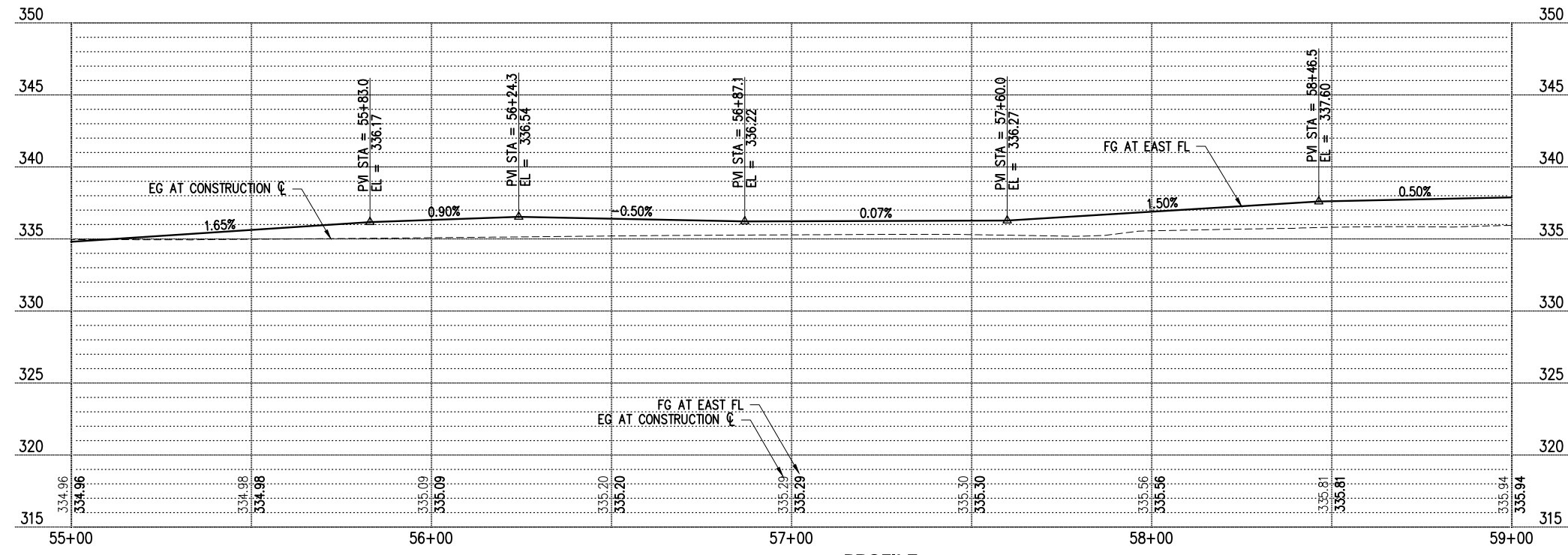
September 16, 2023 - 7:31 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\AL\N03.DWG - Layout Name: RD (4) STA 55+00 TO STA 59+00



- ### GENERAL NOTES
- FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
  - FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
  - FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
  - FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
  - FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
  - FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
  - CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
  - AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

- ### CONSTRUCTION NOTES
- 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R-51A
  - RAISED SIDEWALK AND SAFETY RAILING PER DETAIL 4, SHEET 8
  - MAILBOX CLUSTER PER C.O.K. STD PLAN CK-R-45A. INSTALL 4" CTSC PAD BELOW MAILBOX CLUSTER. CTSC PAD DIMENSIONS SHALL MATCH MAILBOX CLUSTER ROOF PERIMETER AND EXTEND TO BACK OF CURB
  - PEDESTRIAN PATH WIDENING PER DETAIL 1, SHEET 8
  - CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10
  - ADJUST GAS VALVE TO FINISHED GRADE
  - RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
  - CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R-17

- ### LEGEND
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - APPROX. CUT DAYLIGHT LINE
  - APPROX. FILL DAYLIGHT LINE
  - SAWCUT PER SITE PREP PLAN SHEETS 9-16
  - BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
  - FENCE, SEE WALL DETAILS FOR LOCATION
  - WALL PER WALL PLAN SHEETS 55-62
  - CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R-23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
  - CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
  - ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
  - ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
  - 2" GRIND & OVERLAY - SCHEDULE A
  - 2" GRIND & OVERLAY - SCHEDULE B
  - 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
  - STORM STRUCTURES, SEE STORM SHEETS 17-29
  - SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
  - WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
  - ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73

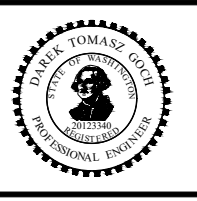


PROFILE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

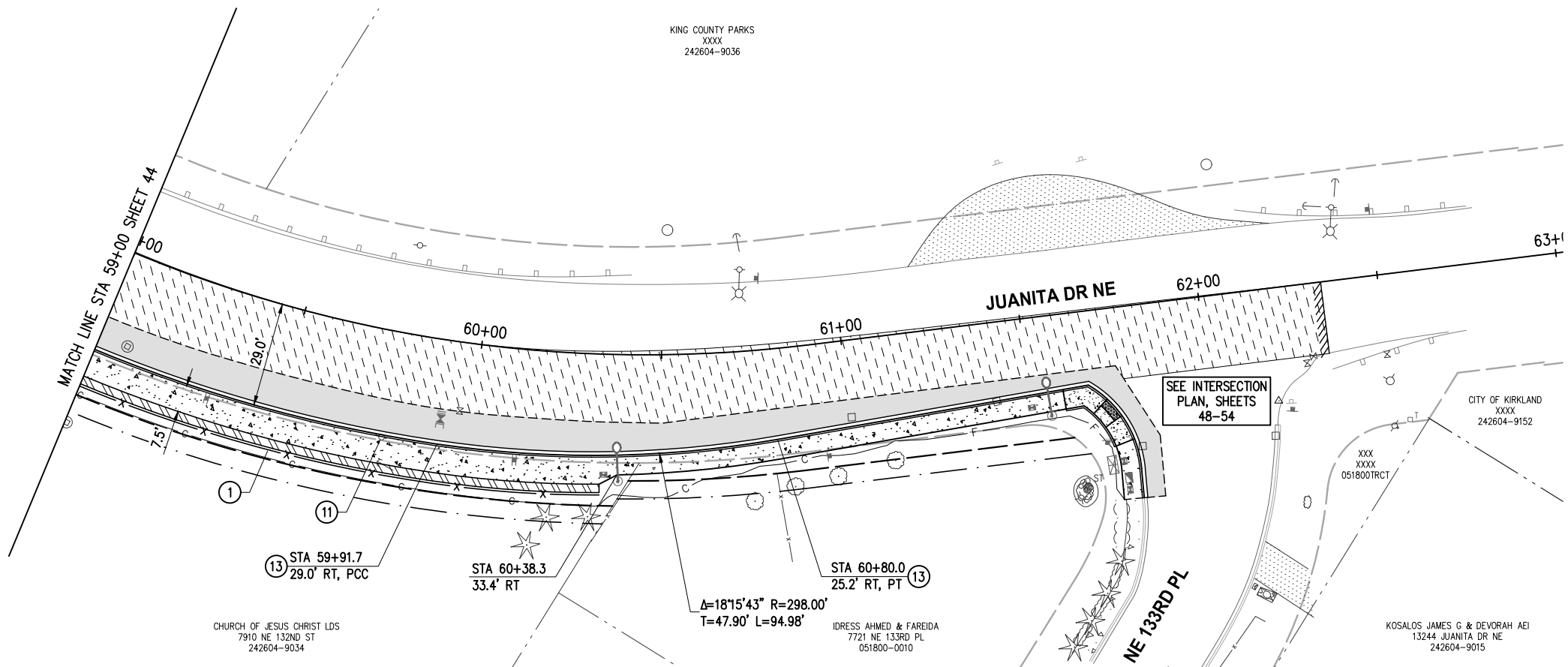
STA 55+00 TO STA 59+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 44 OF 161 SHEETS

September 16, 2023 - 7:32 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\AL\N03.DWG - Layout Name: RD (5) STA 59+00 TO STA 63+00

KING COUNTY PARKS  
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242604-9036



**GENERAL NOTES**

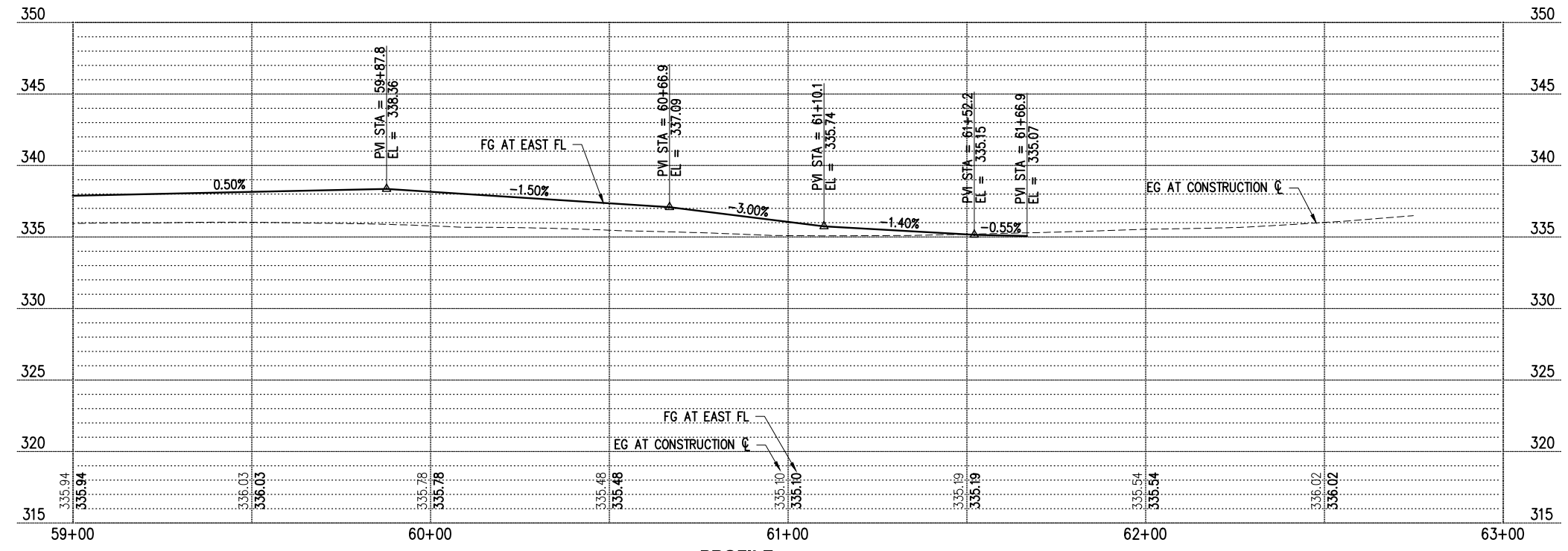
1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEETS 3-4.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 5-7.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 17-29.
4. FOR TREATMENT OF EXIST WATER APPURTENANCES AND SEWER STRUCTURES SEE SHEETS 135-147.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE DRIVEWAY SHEET 47 AND INTERSECTION SHEETS 48-54.
6. FOR LANDSCAPE RESTORATION SEE SHEETS 74-81.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
8. AT PROPOSED LUMINAIRE LOCATIONS GRADE A FLAT AREA AROUND POLE (18" MIN FROM EDGE OF POLE).

**CONSTRUCTION NOTES**

- 1 3' CHAIN LINK SAFETY RAIL PER C.O.K. STD PLAN CK-R.51A
- 11 RELOCATE/ADJUST/REMOVE UTILITY BY OTHERS, COORDINATE WITH UTILITY PURVEYOR
- 13 CEMENT CONC CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17

**LEGEND**

- RIGHT OF WAY
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - APPROX. CUT DAYLIGHT LINE
- - - - - APPROX. FILL DAYLIGHT LINE
- - - - - SAWCUT PER SITE PREP PLAN SHEETS 9-16
- ////// BUTT JOINT PER SITE PREP PLAN SHEETS 9-16
- x- FENCE, SEE WALL DETAILS FOR LOCATION
- ==== WALL PER WALL PLAN SHEETS 55-62
- [Pattern] CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23, MATCH STD WIDTH UNLESS OTHERWISE NOTED
- [Pattern] CEMENT CONC CURB RAMP OR DRIVEWAY ENTRANCE, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA ON 2" CSTC
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE A
- [Pattern] ASPHALT ROADWAY, 8" HMA ON 4" CSTC - SCHEDULE B
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE A
- [Pattern] 2" GRIND & OVERLAY - SCHEDULE B
- [Pattern] 2" CSTC DRIVEWAY/SHOULDER/MAILBOX CLUSTER PAD
- [Symbol] STORM STRUCTURES, SEE STORM SHEETS 17-29
- [Symbol] SIGN, SEE CHANNELIZATION & SIGNING SHEETS 82-89
- [Symbol] WATER APPURTENANCES, SEE NUD WATER SHEETS 135-147
- [Symbol] ILLUMINATION EQUIPMENT, SEE ILLUMINATION SHEETS 64-73



**PROFILE**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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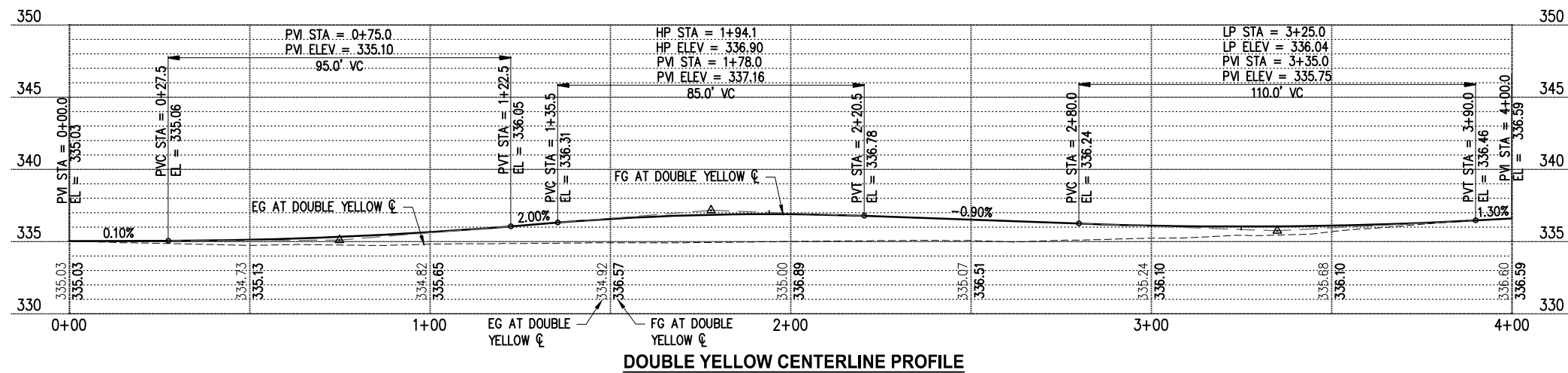
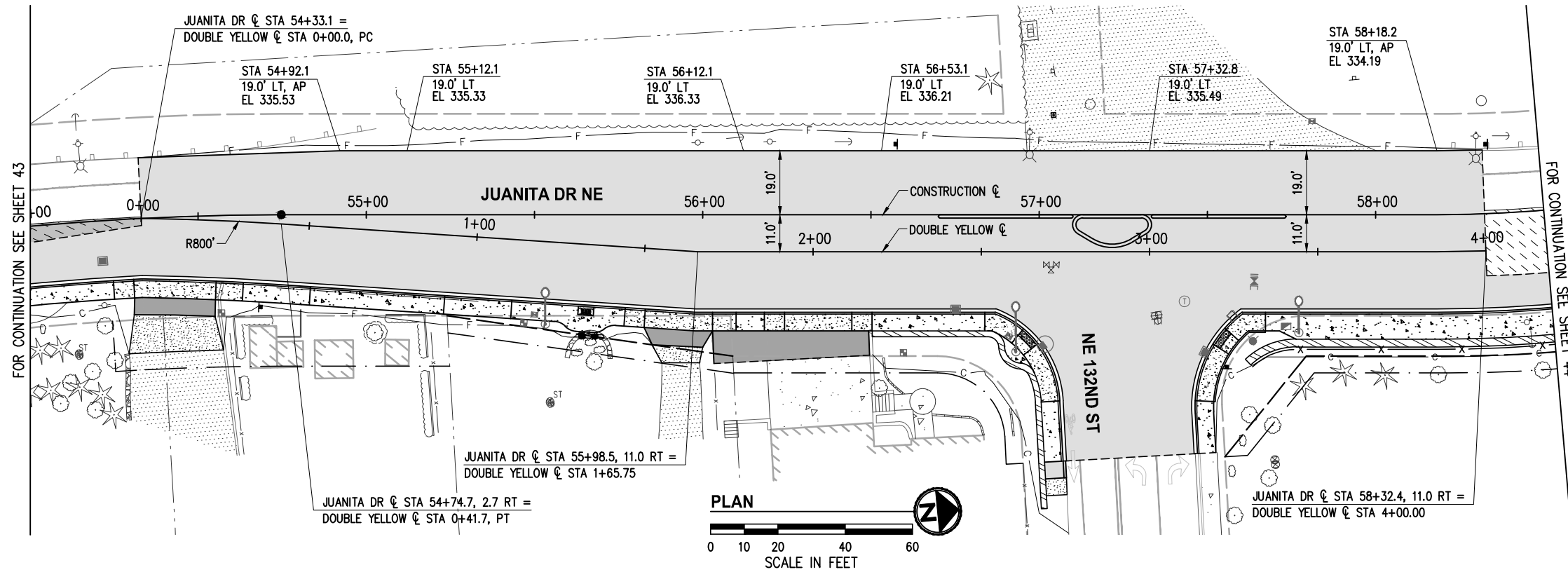
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 59+00 TO STA 63+00

**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 45 OF 161 SHEETS

September 17, 2023 - 5:59 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\AL\N05.DWG - Layout Name: RD (1) STA 54+00 TO STA 58+50



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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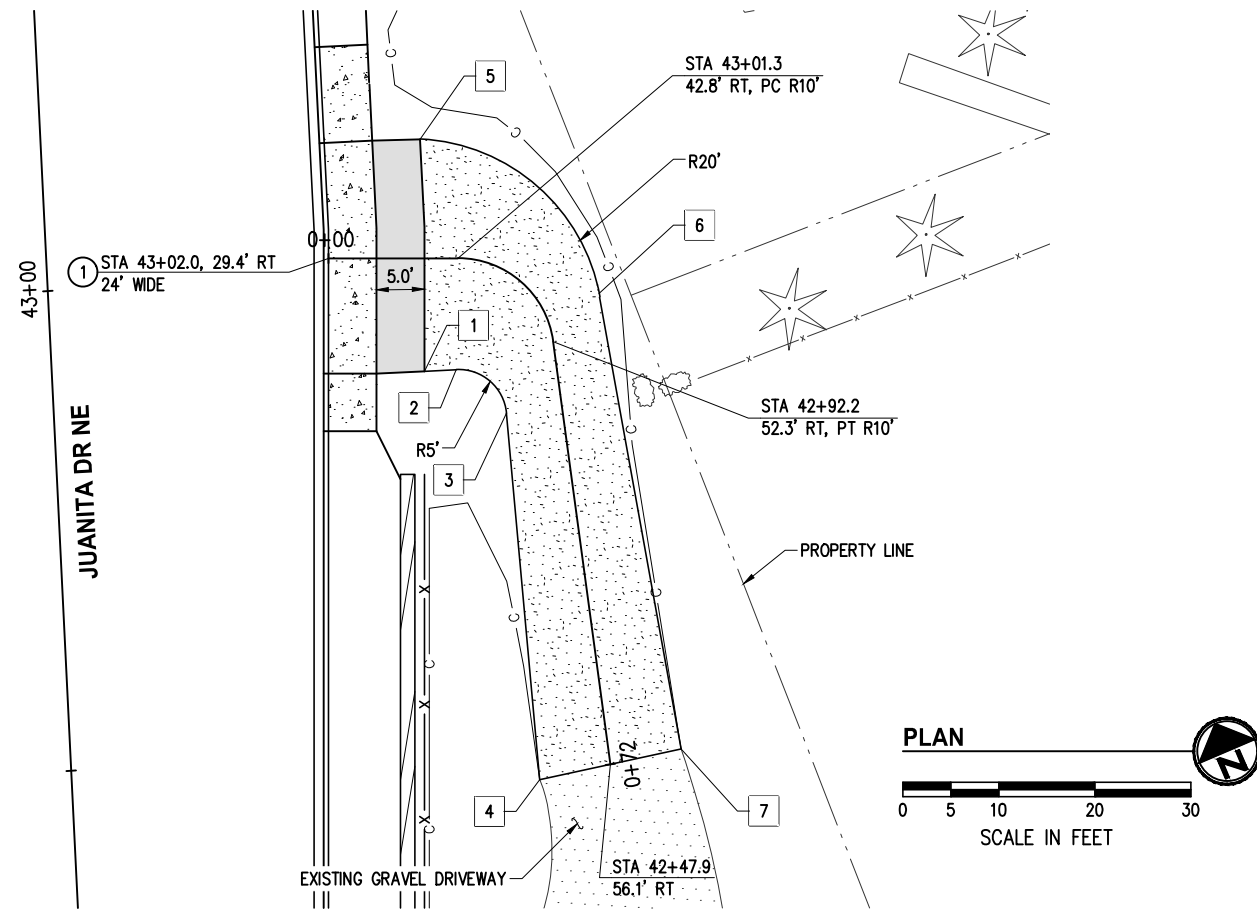
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

132ND REBUILD GRADING  
**ROADWAY PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 46 OF 161 SHEETS

September 17, 2023 - 5:56 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065DWY01.DWG - Layout Name: (1) DWY01

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	42+89.7	38.8' RT	335.85	ASPHALT CORNER
2	42+89.7	42.1' RT	336.68	PC
3	42+85.0	47.1' RT	338.39	PT
4	42+46.7	48.7' RT	342.13±	MATCH EX
5	43+13.9	39.5' RT	335.70	ASPHALT CORNER, PC
6	42+96.9	57.3' RT	338.18	PT
7	42+49.2	63.6' RT	342.85±	MATCH EX

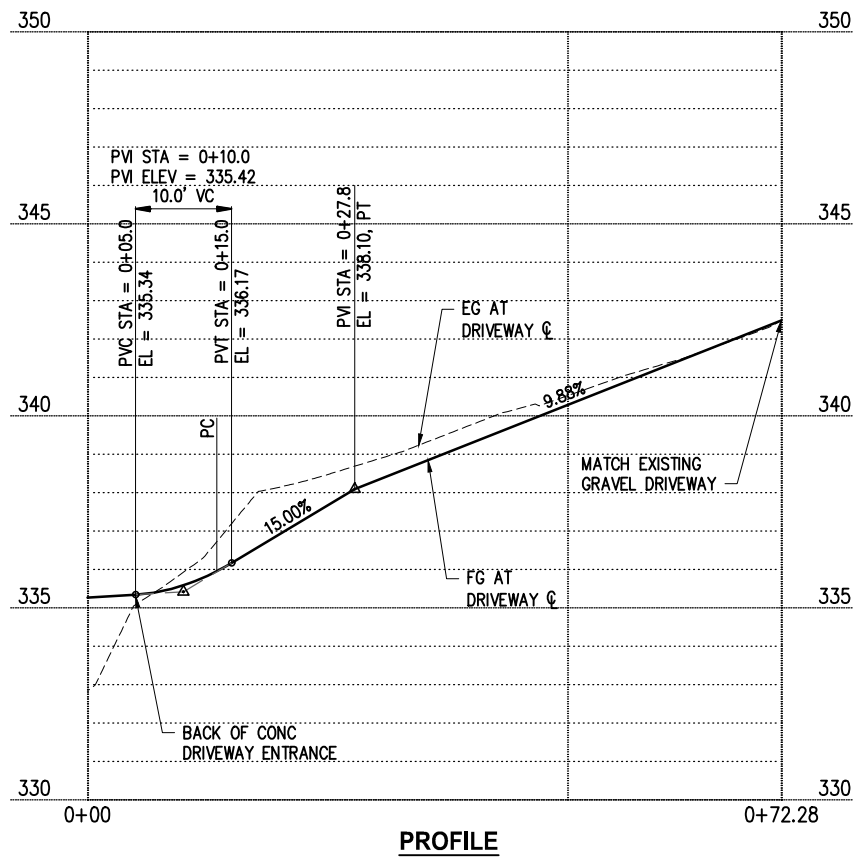


**GENERAL NOTES**

- SEE ROADWAY PLAN SHEETS 33-46 FOR CURB AND SIDEWALK GRADING.

**CONSTRUCTION NOTES**

- 6" CEMENT CONC DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD PLAN F-80.10, OVER 4" CSTC



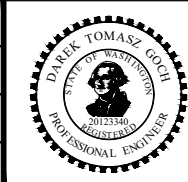
**LEGEND**

- APPROX CUT DAYLIGHT LINE
- APPROX FILL DAYLIGHT LINE
- FENCE PER ROADWAY PLAN SHEETS 33-46
- RETAINING WALL PER PLAN SHEETS 55-63
- ASPHALT DRIVEWAY, 3" COMMERCIAL HMA OVER 2" CSTC
- 6" CEMENT CONC DRIVEWAY AS NOTED, OVER 4" CSTC
- 2" CSTC FOR SHOULDER / DRIVEWAY

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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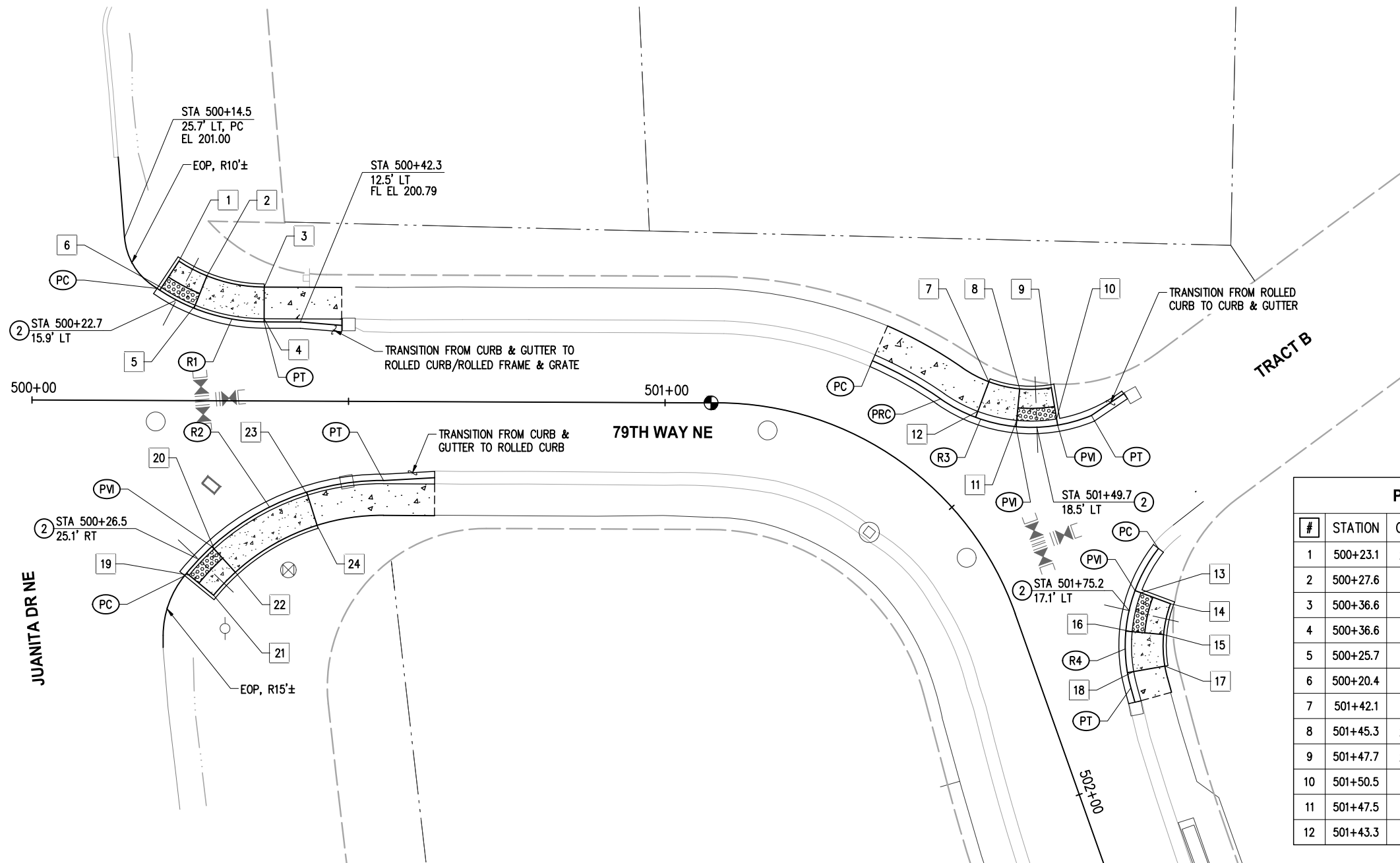
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

JUANITA DR NE ~ STA 43+00

**DRIVEWAY PLAN & PROFILE**

REFERENCE SHEET NO.  
 SHEET 47 OF 161 SHEETS

September 17, 2023 - 6:38 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\INT01.DWG - Layout Name: INT (1) 79TH WAY NE & JUANITA



- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
- ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

**CONSTRUCTION NOTES**

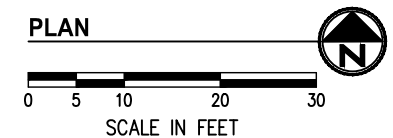
- ② PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	500+23.1	22.0' LT	200.48	LANDING CORNER
2	500+27.6	19.7' LT	200.57	LANDING CORNER
3	500+36.6	18.0' LT	201.29	TOP OF RAMP
4	500+36.6	13.0' LT	201.21	TOP OF RAMP
5	500+25.7	15.1' LT	200.52	LANDING CORNER
6	500+20.4	17.9' LT	200.43	LANDING CORNER
7	501+42.1	18.5' LT	209.87	TOP OF RAMP
8	501+45.3	20.8' LT	210.29	LANDING CORNER
9	501+47.7	24.4' LT	210.40	LANDING CORNER
10	501+50.5	21.7' LT	210.32	LANDING CORNER
11	501+47.5	16.9' LT	210.21	LANDING CORNER
12	501+43.3	13.8' LT	209.79	TOP OF RAMP

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
13	501+73.2	19.8' LT	211.65	LANDING CORNER
14	501+76.4	23.7' LT	211.73	LANDING CORNER
15	501+80.6	21.0' LT	211.65	LANDING CORNER
16	501+78.5	16.5' LT	211.58	LANDING CORNER
17	501+85.4	19.5' LT	211.90	TOP OF RAMP
18	501+84.6	14.6' LT	211.83	TOP OF RAMP
19	500+24.9	27.6' RT	198.78	LANDING CORNER
20	500+28.9	23.4' RT	198.87	LANDING CORNER
21	500+28.8	30.7' RT	198.83	LANDING CORNER
22	500+32.3	27.1' RT	198.92	LANDING CORNER
23	500+43.6	14.9' RT	200.74	TOP OF RAMP
24	500+45.1	19.6' RT	200.81	TOP OF RAMP

#	CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN	
R1	33°22'20"	30.0'	17.5'	9.0'	
PC	STA 500+19.7	17.7' LT	EL 200.40		
PT	STA 500+36.6	12.5' LT	EL 200.70		

#	CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN	
R2	51°46'50"	39.9'	36.0'	19.4'	
PC	STA 500+24.3	27.6' RT	EL 198.77		
PVI	STA 500+28.5	23.0' RT	EL 198.87		
PT	STA 500+55.6	12.5' RT	EL 201.21		



#	CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN	
R3	57°18'50"	25.0'	25.0'	13.7'	
PC	STA 501+28.6	11.7' LT	EL 208.00		
PRC	STA 501+38.6	11.7' LT	EL 208.85		
PVI	STA 501+48.0	16.1' LT	EL 210.16		
PVI	STA 501+51.1	21.1' LT	EL 210.26		
PT	STA 501+52.6	26.2' LT	EL 211.10		

#	CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN	
R4	53°22'00"	25.0'	23.3'	12.6'	
PC	STA 501+68.2	24.8' LT	EL 211.87		
PVI	STA 501+72.6	19.1' LT	EL 211.65		
PT	STA 501+86.8	13.3' LT	EL 211.50		

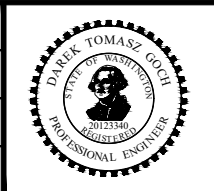
**LEGEND**

- PROPERTY LINE
- RIGHT OF WAY
- ==== CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- //// RETAINING WALL PER PLAN SHEETS 55-62
- ▭ CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- ▭ CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- ▭ TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
- ==== ROLLED CURB PER C.O.K. STD PLAN CK-R.17D

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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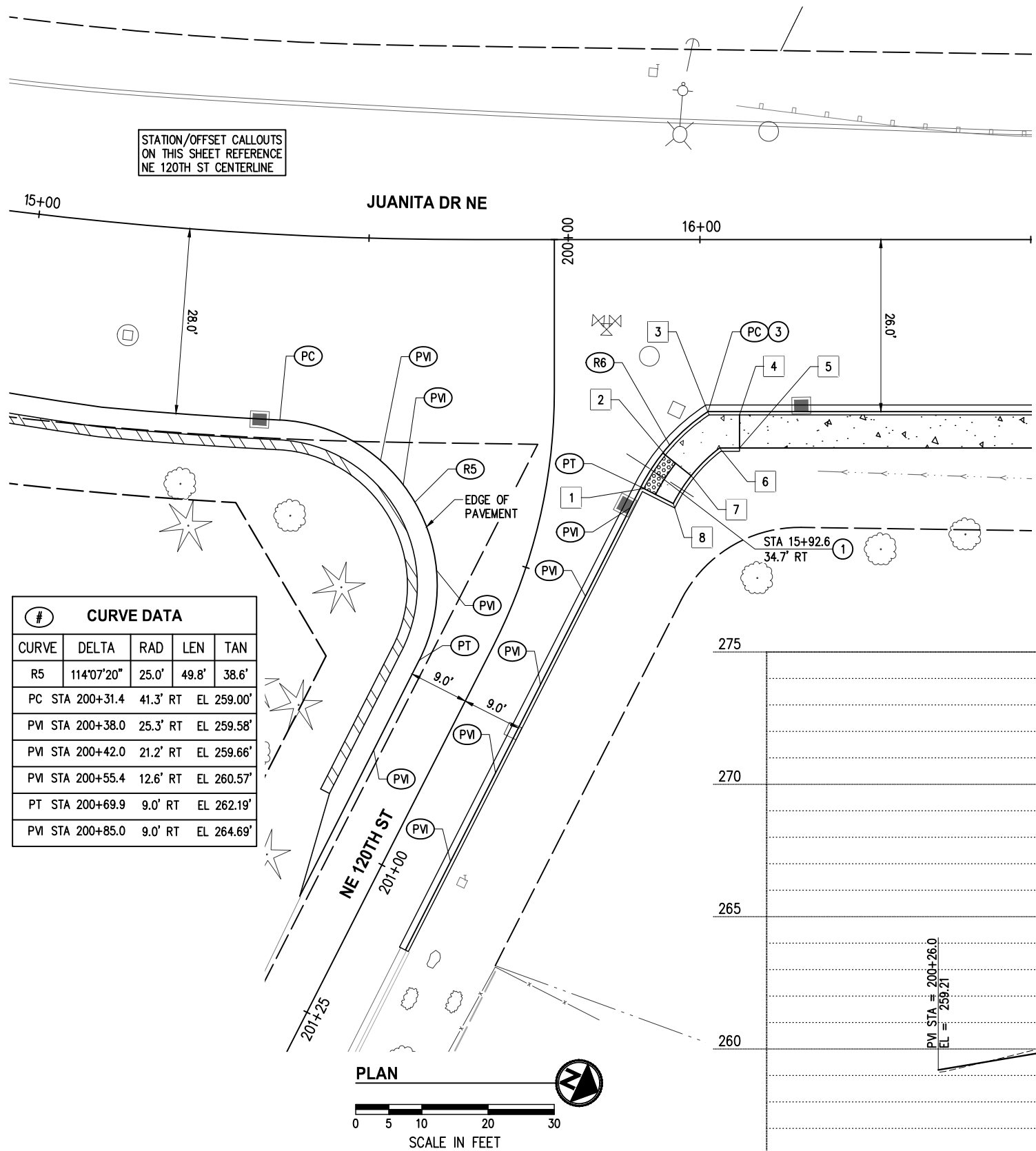
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

79TH WAY NE & JUANITA  
**INTERSECTION PLAN**

REFERENCE SHEET NO.  
SHEET 48 OF 161 SHEETS



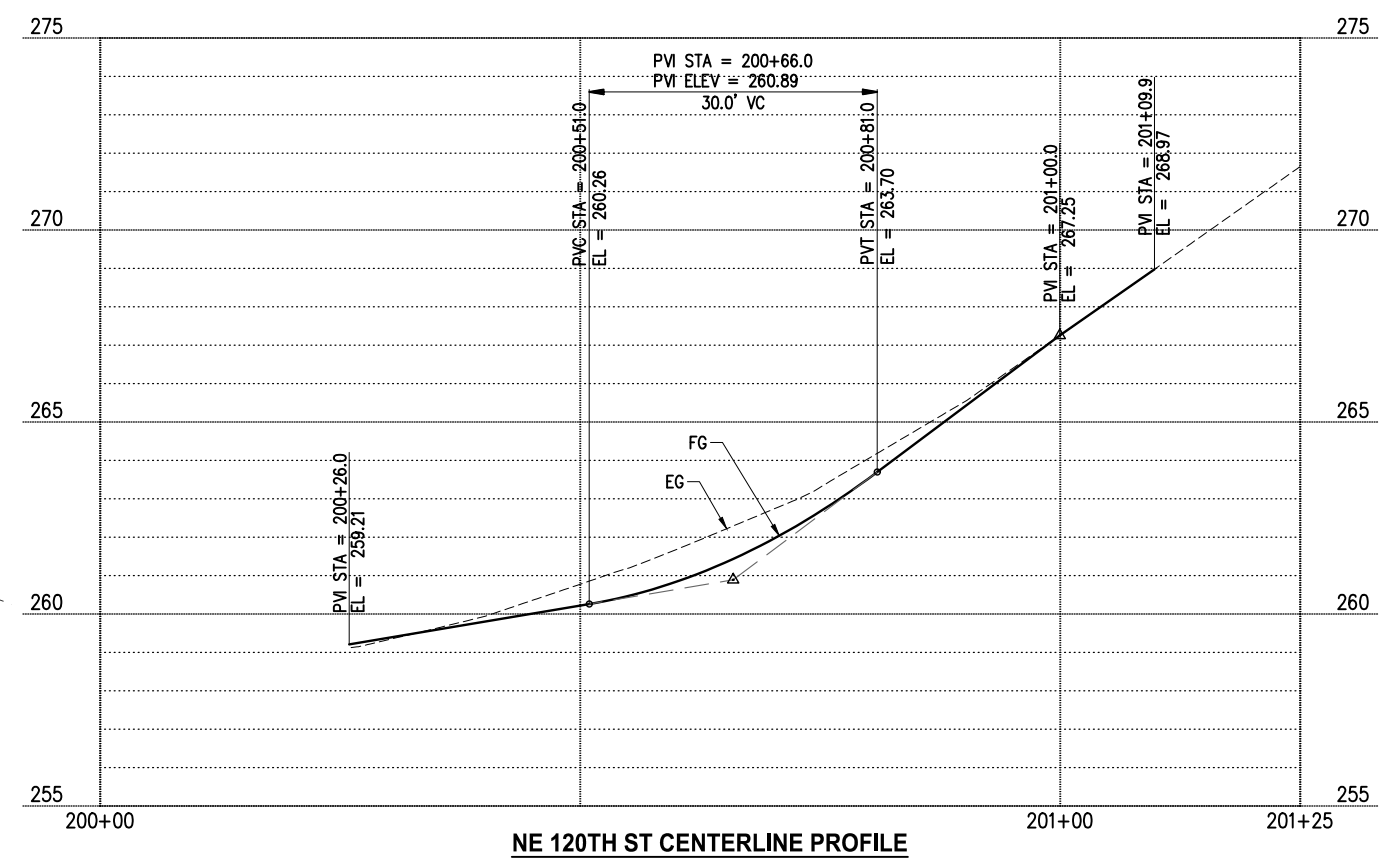
September 17, 2023 - 6:39 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\INT02.DWG - Layout Name: INT (01) NE 120TH ST & JUANITA



POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	200+35.5	14.6' LT	259.08	LANDING CORNER
2	200+30.9	17.2' LT	259.14	LANDING CORNER
3	200+25.7	23.4' LT	259.64	SPOT ELEV
4	200+25.6	28.0' LT	259.77	TOP OF RAMP
5	200+29.4	28.3' LT	259.85	TOP OF RAMP
6	200+29.5	25.3' LT	259.64	SPOT ELEV
7	200+33.1	21.5' LT	259.21	LANDING CORNER
8	200+36.8	19.4' LT	259.15	LANDING CORNER

CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R6	29°29'20"	30.0'	15.4'	7.9'
PC STA	200+25.3	23.3' LT	EL 259.24'	
PT STA	200+35.4	14.1' LT	EL 259.08'	
PVI STA	200+38.3	13.1' LT	EL 259.04'	
PVI STA	200+51.2	9.9' LT	EL 259.64'	
PVI STA	200+64.9	9.0' LT	EL 260.99'	
PVI STA	200+79.9	9.0' LT	EL 263.09'	
PVI STA	200+94.9	9.0' LT	EL 265.94'	

CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R5	114°07'20"	25.0'	49.8'	38.6'
PC STA	200+31.4	41.3' RT	EL 259.00'	
PVI STA	200+38.0	25.3' RT	EL 259.58'	
PVI STA	200+42.0	21.2' RT	EL 259.66'	
PVI STA	200+55.4	12.6' RT	EL 260.57'	
PT STA	200+69.9	9.0' RT	EL 262.19'	
PVI STA	200+85.0	9.0' RT	EL 264.69'	



- ### GENERAL NOTES
- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
  - SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
  - FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
  - CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
  - SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
  - ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

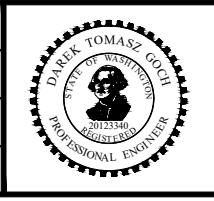
- ### CONSTRUCTION NOTES
- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
  - CURB RETURN RADIUS PER DETAIL 2, SHEET 8

- ### LEGEND
- PROPERTY LINE
  - RIGHT OF WAY
  - CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
  - RETAINING WALL PER PLAN SHEETS 55-62
  - CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
  - CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
  - TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
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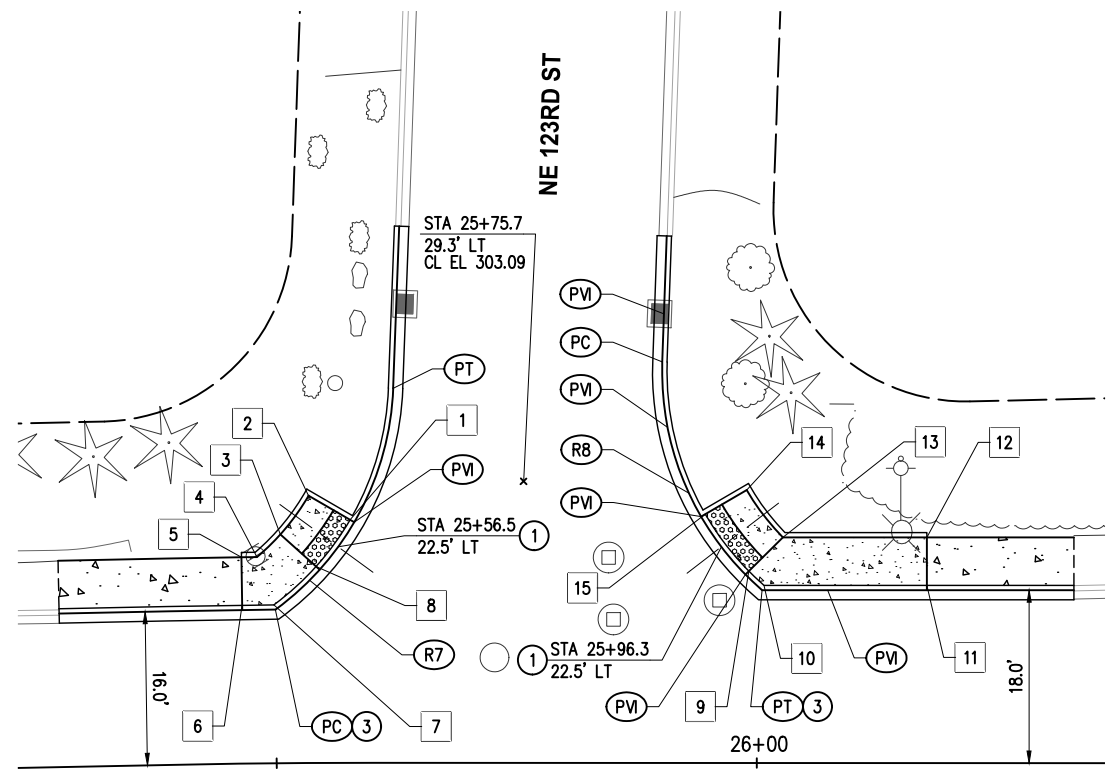
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

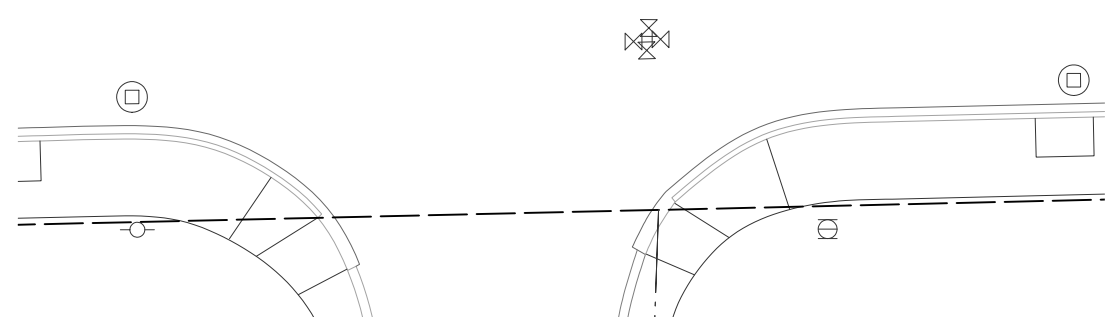
NE 120TH ST & JUANITA  
**INTERSECTION PLAN**

REFERENCE SHEET NO.  
SHEET 49 OF 161 SHEETS

September 17, 2023 - 6:39 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\INT02.DWG - Layout Name: INT (02) 123RD -124TH & JUANITA



JUANITA DR NE



PLAN

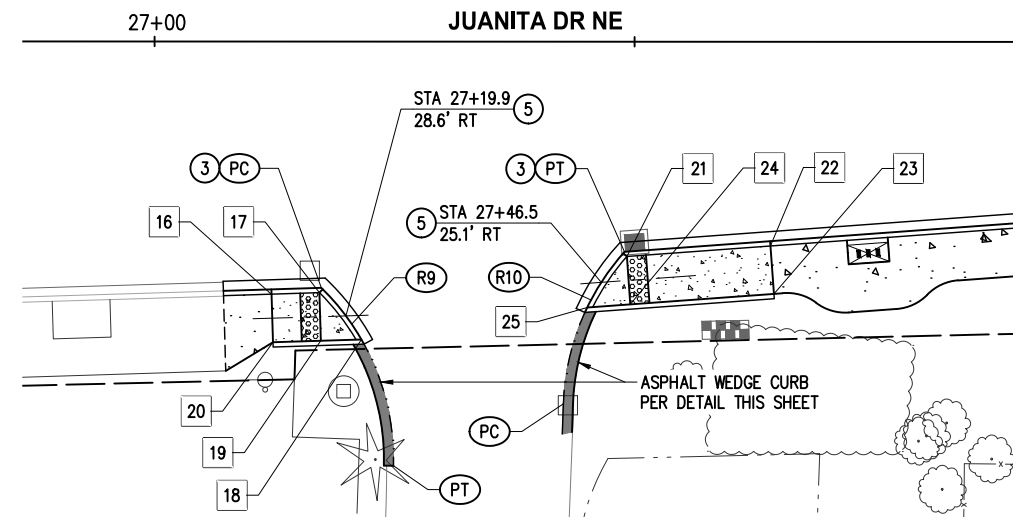


#	CURVE DATA
R7	51°35'20" 30.0' 27.0' 14.5'
PC	STA 25+50.0 16.0' LT EL 302.35'
PVI	STA 25+58.1 25.1' LT EL 302.44'
PT	STA 25+62.1 39.0' LT EL 302.64'

#	CURVE DATA
R8	51°14'50" 30.0' 26.8' 14.4'
PM	STA 25+90.3 46.8' LT EL 302.71'
PC	STA 25+90.1 41.8' LT EL 302.74'
PVI	STA 25+90.7 34.9' LT EL 302.77'
PM	STA 25+94.2 25.7' LT EL 303.59'
PVI	STA 25+98.8 19.6' LT EL 303.71'
PT	STA 26+00.6 18.0' LT EL 303.93'
PVI	STA 26+07.4 18.0' LT EL 304.50'

#	STATION	OFFSET	ELEV	DESCRIPTION
1	25+57.7	25.3' LT	302.44	LANDING CORNER
2	25+53.5	27.8' LT	302.52	LANDING CORNER
3	25+50.6	23.8' LT	302.44	LANDING CORNER
4	25+48.2	21.5' LT	302.61	SPOT ELEV
5	25+46.6	21.5' LT	302.69	TOP OF RAMP
6	25+46.6	16.5' LT	302.62	TOP OF RAMP
7	25+49.9	16.5' LT	302.61	SPOT ELEV
8	25+54.2	20.5' LT	302.37	LANDING CORNER
9	25+99.2	20.0' LT	303.61	LANDING CORNER
10	26+00.7	18.5' LT	303.65	SPOT ELEV
11	26+17.7	18.5' LT	305.57	TOP OF RAMP
12	26+17.7	23.5' LT	305.65	TOP OF RAMP
13	26+02.7	23.5' LT	303.66	LANDING CORNER

#	STATION	OFFSET	ELEV	DESCRIPTION
14	25+98.9	28.4' LT	303.54	LANDING CORNER
15	25+94.6	25.9' LT	303.49	LANDING CORNER
16	27+12.2	26.3' RT	309.70	TOP OF RAMP
17	27+17.2	26.1' RT	309.54	LANDING CORNER
18	27+21.6	31.0' RT	309.59	LANDING CORNER
19	27+17.3	31.1' RT	309.62	LANDING CORNER
20	27+12.3	31.3' RT	309.77	TOP OF RAMP
21	27+49.2	22.4' RT	310.90	LANDING CORNER
22	27+64.2	21.3' RT	312.10	TOP OF RAMP
23	27+64.5	26.2' RT	312.17	TOP OF RAMP
24	27+49.6	27.3' RT	310.98	LANDING CORNER
25	27+45.1	27.7' RT	310.94	LANDING CORNER



PLAN



#	CURVE DATA
R9	47°04'40" 25.0' 20.6' 10.9'
PC	STA 27+17.4 25.6' RT EL 309.62'
PT	STA 27+24.9 44.2' RT EL 311.34±

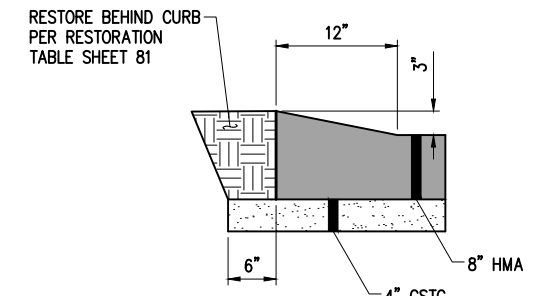
#	CURVE DATA
R10	39°53'10" 25.0' 17.4' 9.1'
PC	STA 27+42.6 37.7' RT EL 311.14±
PT	STA 27+49.0 21.9' RT EL 310.90'

**GENERAL NOTES**

- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
- ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

**CONSTRUCTION NOTES**

- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
- CURB RETURN RADIUS PER DETAIL 2, SHEET 8
- SINGLE DIRECTION CURB RAMP PER WSDOT STD PLAN F-40.16



**ASPHALT WEDGE CURB DETAIL**  
NTS

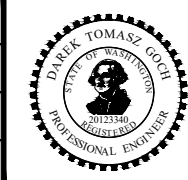
**LEGEND**

- PROPERTY LINE
- RIGHT OF WAY
- CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- RETAINING WALL PER PLAN SHEETS 55-62
- CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG 9/2023	DRAWN BY: DG 9/2023

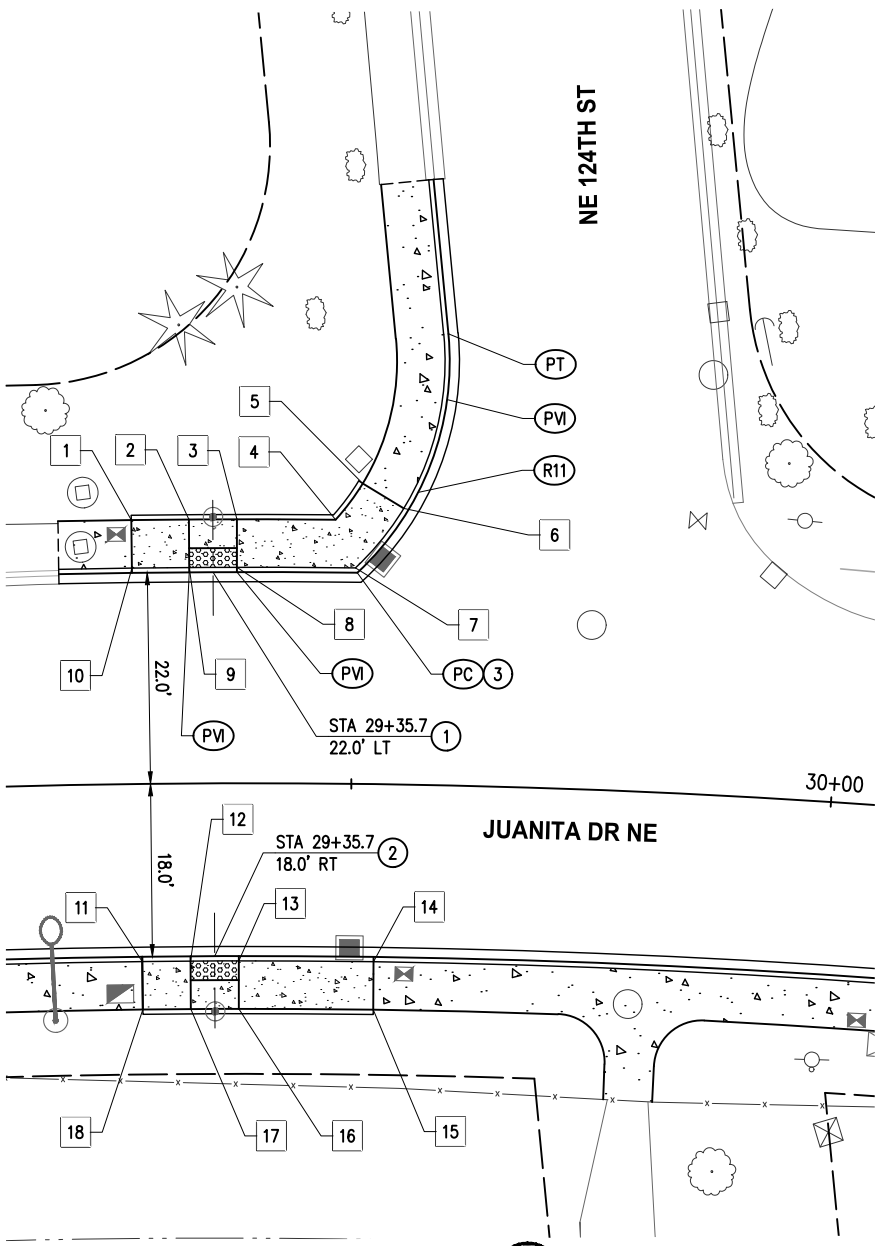


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123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov  
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
NE 123RD ST - NE 124TH ST & JUANITA  
**INTERSECTION PLAN**  
REFERENCE SHEET NO.  
SHEET 50 OF 161 SHEETS

September 17, 2023 - 6:40 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065INT02.DWG - Layout Name: INT (03) DRIVEWAY STA 35+50



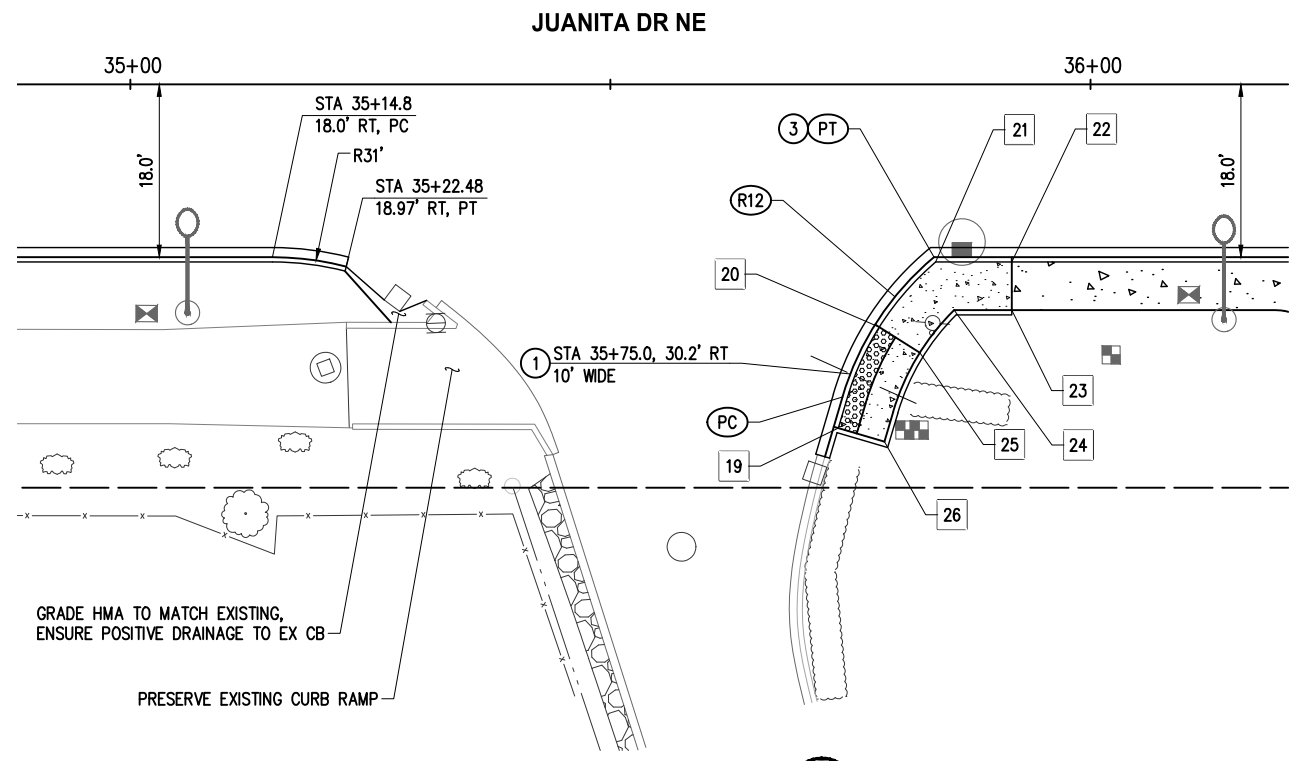
POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	29+27.4	27.5' LT	321.54	TOP OF RAMP
2	29+33.3	27.5' LT	321.36	LANDING CORNER
3	29+38.1	27.5' LT	321.44	LANDING CORNER
4	29+48.1	27.5' LT	322.47	SPOT ELEV
5	29+50.8	31.3' LT	322.94	TOP OF RAMP
6	29+55.0	28.8' LT	322.86	TOP OF RAMP
7	29+50.2	22.5' LT	322.27	SPOT ELEV
8	29+38.1	22.5' LT	321.35	LANDING CORNER
9	29+33.3	22.5' LT	321.28	LANDING CORNER

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
10	29+27.4	22.5' LT	321.46	TOP OF RAMP
11	29+28.0	18.5' RT	319.28	TOP OF RAMP
12	29+33.1	18.5' RT	319.00	LANDING CORNER
13	29+38.3	18.5' RT	319.08	LANDING CORNER
14	29+52.6	18.5' RT	320.13	TOP OF RAMP
15	29+52.6	23.5' RT	320.21	TOP OF RAMP
16	29+38.3	23.5' RT	319.16	LANDING CORNER
17	29+33.1	23.5' RT	319.08	LANDING CORNER
18	29+28.0	23.5' RT	319.36	TOP OF RAMP

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
19	35+73.7	35.8' RT	332.89	LANDING CORNER
20	35+78.0	25.3' RT	333.01	LANDING CORNER
21	35+83.9	18.5' RT	333.47	SPOT ELEV
22	35+91.8	18.5' RT	333.88	TOP OF RAMP
23	35+91.8	23.5' RT	333.96	TOP OF RAMP
24	35+85.8	23.5' RT	333.51	SPOT ELEV
25	35+82.2	27.9' RT	333.08	LANDING CORNER
26	35+78.5	37.2' RT	332.96	LANDING CORNER

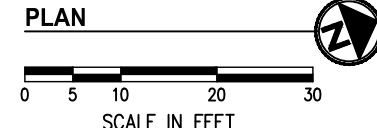
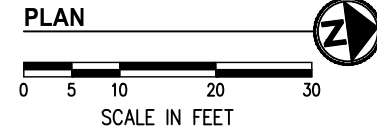
- GENERAL NOTES**
- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
  - SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
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  - CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
  - SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
  - ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

- CONSTRUCTION NOTES**
- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
  - PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12
  - CURB RETURN RADIUS PER DETAIL 2, SHEET 8



CURVE DATA					
#	CURVE	DELTA	RAD	LEN	TAN
R11	52°42'10"	30.0'	27.6'	14.9'	
PVI	STA 29+33.3	22.0' LT	EL 321.28'		
PVI	STA 29+38.1	22.0' LT	EL 321.36'		
PC	STA 29+50.4	22.0' LT	EL 321.66'		
PVI	STA 29+59.1	40.2' LT	EL 322.92'		
PT	STA 29+59.1	47.0' LT	EL 323.09'		

CURVE DATA					
#	CURVE	DELTA	RAD	LEN	TAN
R12	33°41'30"	30.0'	17.6'	9.1'	
PC	STA 35+74.2	32.5' RT	EL 332.65'		
PT	STA 35+83.7	18.0' RT	EL 333.00'		

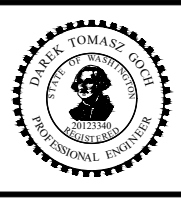


- LEGEND**
- PROPERTY LINE
  - RIGHT OF WAY
  - CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
  - RETAINING WALL PER PLAN SHEETS 55-62
  - CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
  - CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
  - TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

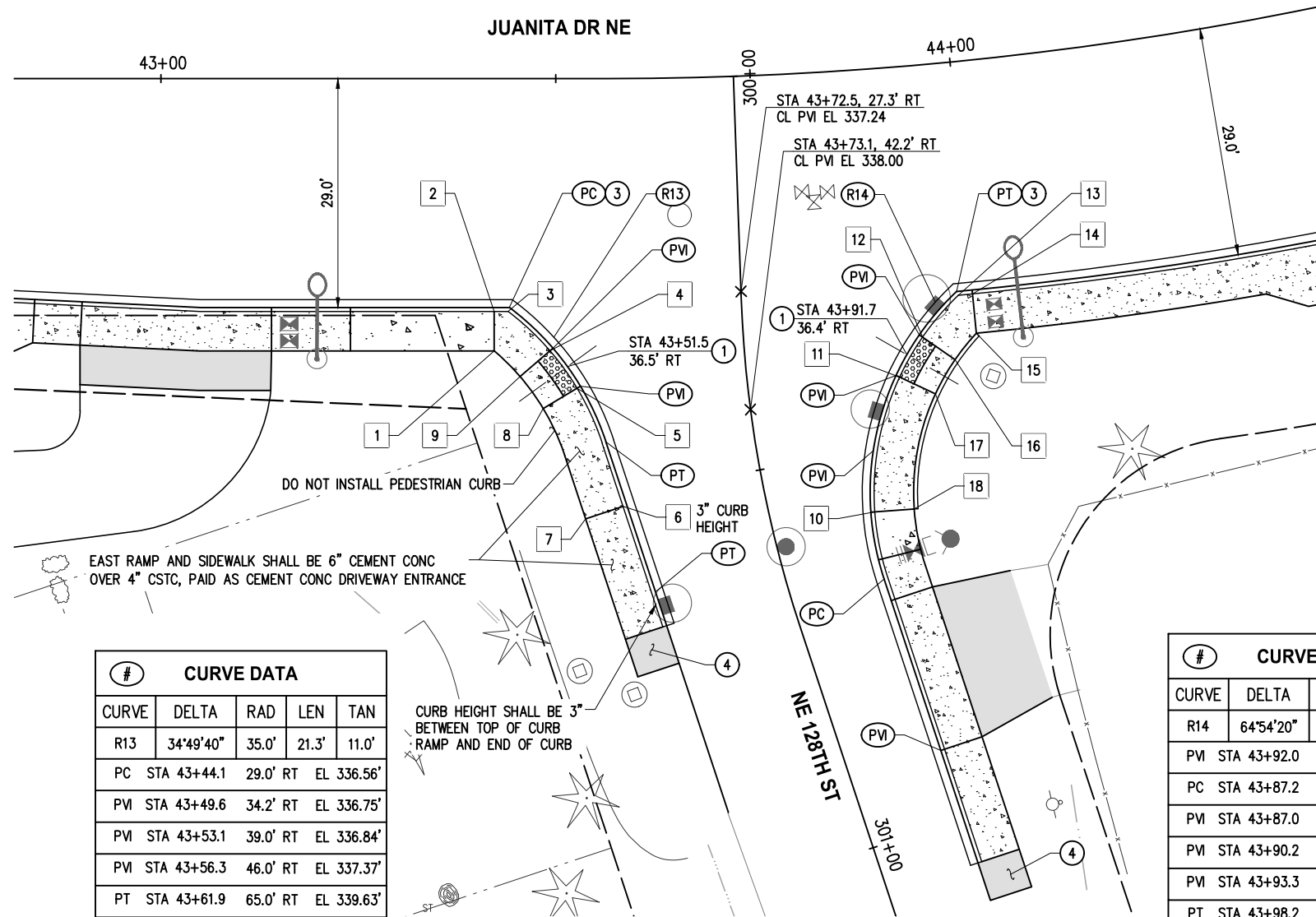
PRIVATE DRIVEWAY STA 35+50

**INTERSECTION PLAN**

REFERENCE SHEET NO.

SHEET 51 OF 161 SHEETS

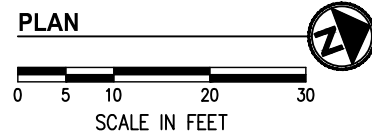
September 17, 2023 - 6:41 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\INT02.DWG - Layout Name: INT (04) NE 128TH ST & JUANITA



#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R13	34°49'40"	35.0'	21.3'	11.0'
PC	STA 43+44.1	29.0' RT	EL 336.56'	
PVI	STA 43+49.6	34.2' RT	EL 336.75'	
PVI	STA 43+53.1	39.0' RT	EL 336.84'	
PVI	STA 43+56.3	46.0' RT	EL 337.37'	
PT	STA 43+61.9	65.0' RT	EL 339.63'	

#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R14	64°54'20"	35.0'	39.6'	22.3'
PVI	STA 43+92.0	86.8' RT	EL 343.06'	
PC	STA 43+87.2	64.6' RT	EL 340.52'	
PVI	STA 43+87.0	48.3' RT	EL 338.57'	
PVI	STA 43+90.2	39.0' RT	EL 337.90'	
PVI	STA 43+93.3	34.1' RT	EL 337.81'	
PT	STA 43+98.2	29.0' RT	EL 337.71'	

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	43+42.2	34.5' RT	336.87	TOP OF RAMP
2	43+42.2	29.5' RT	336.80	TOP OF RAMP
3	43+43.9	29.5' RT	336.79	SPOT ELEV
4	43+49.3	34.5' RT	336.75	LANDING CORNER
5	43+52.7	39.2' RT	336.84	LANDING CORNER
6	43+58.3	54.2' RT	338.58	TOP OF RAMP
7	43+53.8	55.8' RT	338.65	TOP OF RAMP
8	43+48.4	41.8' RT	336.89	LANDING CORNER
9	43+45.5	37.7' RT	336.80	LANDING CORNER
10	43+86.7	56.0' RT	339.99	TOP OF RAMP
11	43+90.6	39.2' RT	337.89	LANDING CORNER
12	43+93.7	34.4' RT	337.80	LANDING CORNER
13	43+98.3	29.5' RT	337.97	SPOT ELEV
14	44+00.0	29.5' RT	338.01	TOP OF RAMP
15	44+00.0	34.5' RT	338.09	TOP OF RAMP
16	43+97.2	37.6' RT	337.85	LANDING CORNER
17	43+94.6	41.7' RT	337.94	LANDING CORNER
18	43+91.1	56.0' RT	340.06	TOP OF RAMP



**GENERAL NOTES**

- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
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- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
- ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

**CONSTRUCTION NOTES**

- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
- CURB RETURN RADIUS PER DETAIL 2, SHEET 8
- HMA RAMP, 2" COMMERCIAL HMA OVER 2" CSTC

**LEGEND**

- PROPERTY LINE
- RIGHT OF WAY
- CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- RETAINING WALL PER PLAN SHEETS 55-62
- CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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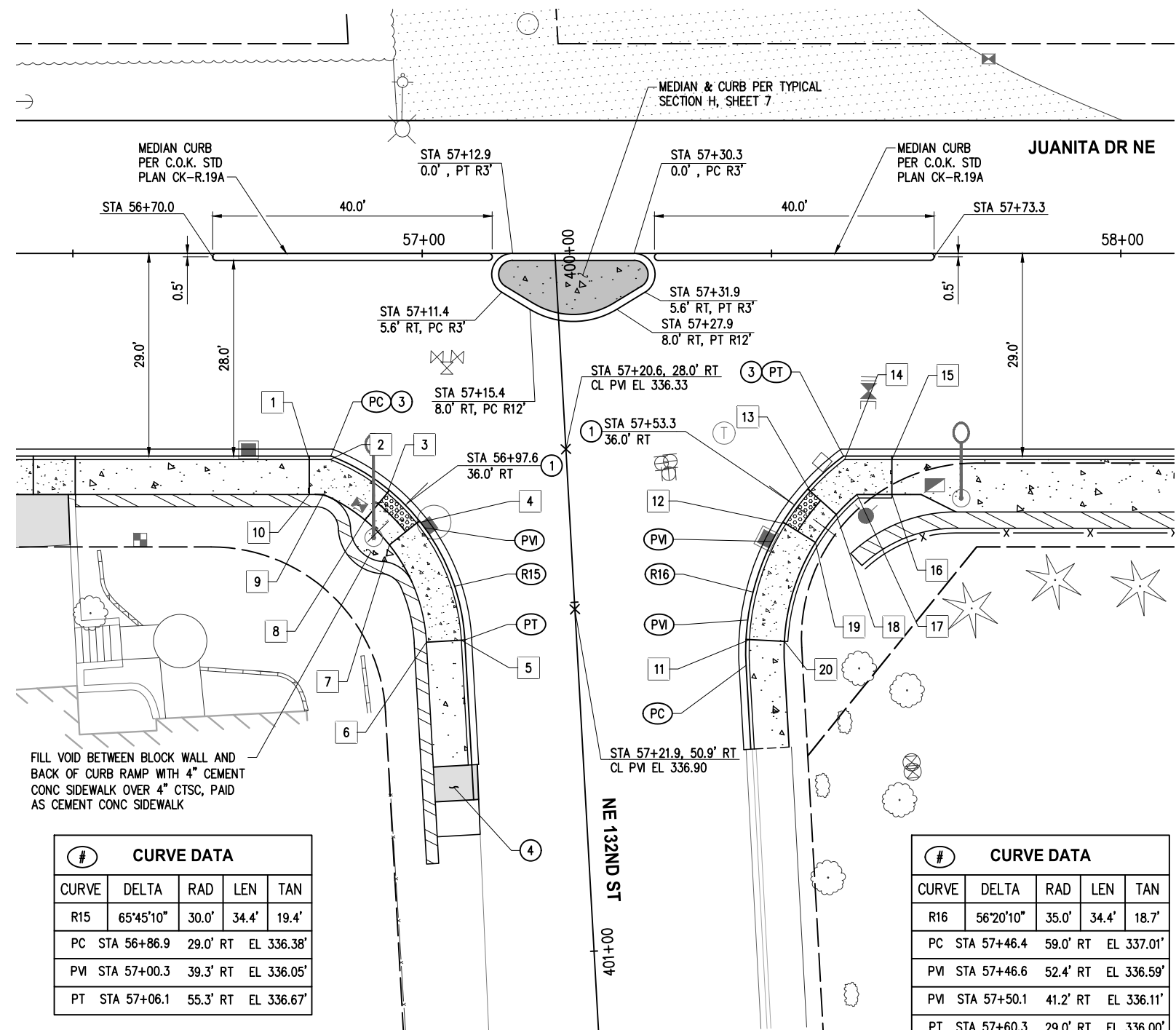
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

NE 128TH ST & JUANITA  
**INTERSECTION PLAN**

REFERENCE SHEET NO.
SHEET 52 OF 161 SHEETS

September 17, 2023 - 6:41 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\INT02.DWG - Layout Name: INT (05) NE 132ND ST & JUANITA



#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R15	65°45'10"	30.0'	34.4'	19.4'
PC	STA 56+86.9	29.0' RT	EL 336.38'	
PM	STA 57+00.3	39.3' RT	EL 336.05'	
PT	STA 57+06.1	55.3' RT	EL 336.67'	

#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R16	56°20'10"	35.0'	34.4'	18.7'
PC	STA 57+46.4	59.0' RT	EL 337.01'	
PVI	STA 57+46.6	52.4' RT	EL 336.59'	
PVI	STA 57+50.1	41.2' RT	EL 336.11'	
PT	STA 57+60.3	29.0' RT	EL 336.00'	

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	56+83.8	29.5' RT	336.74	TOP OF RAMP
2	56+86.8	29.5' RT	336.59	SPOT ELEV
3	56+95.0	34.3' RT	336.12	LANDING CORNER
4	56+99.2	38.6' RT	336.05	LANDING CORNER
5	57+05.6	55.3' RT	337.17	TOP OF RAMP
6	57+00.6	55.6' RT	337.24	TOP OF RAMP
7	56+95.3	41.7' RT	336.13	LANDING CORNER
8	56+91.8	38.2' RT	336.19	LANDING CORNER
9	56+85.8	34.5' RT	336.68	SPOT ELEV
10	56+83.8	34.5' RT	336.81	TOP OF RAMP
11	57+46.9	55.3' RT	337.28	TOP OF RAMP
12	57+52.1	38.7' RT	336.13	LANDING CORNER
13	57+55.6	34.0' RT	336.20	LANDING CORNER
14	57+60.5	29.5' RT	336.54	SPOT ELEV
15	57+67.2	29.5' RT	336.88	TOP OF RAMP
16	57+67.2	34.5' RT	336.96	TOP OF RAMP
17	57+62.2	34.5' RT	336.58	SPOT ELEV
18	57+59.3	37.4' RT	336.27	LANDING CORNER
19	57+56.3	41.4' RT	336.20	LANDING CORNER
20	57+51.8	55.5' RT	337.36	TOP OF RAMP

**GENERAL NOTES**

- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
- ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMPS/LANDINGS

**CONSTRUCTION NOTES**

- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
- CURB RETURN RADIUS PER DETAIL 2, SHEET 8
- HMA RAMP, 2" COMMERCIAL HMA OVER 2" CSTC

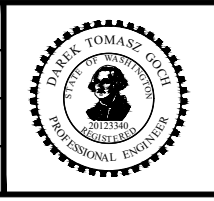
**LEGEND**

- PROPERTY LINE
- RIGHT OF WAY
- CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- RETAINING WALL PER PLAN SHEETS 55-62
- CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
- STAMPED CEMENT CONC MEDIAN PER TYPICAL SECTION H, SHEET 7

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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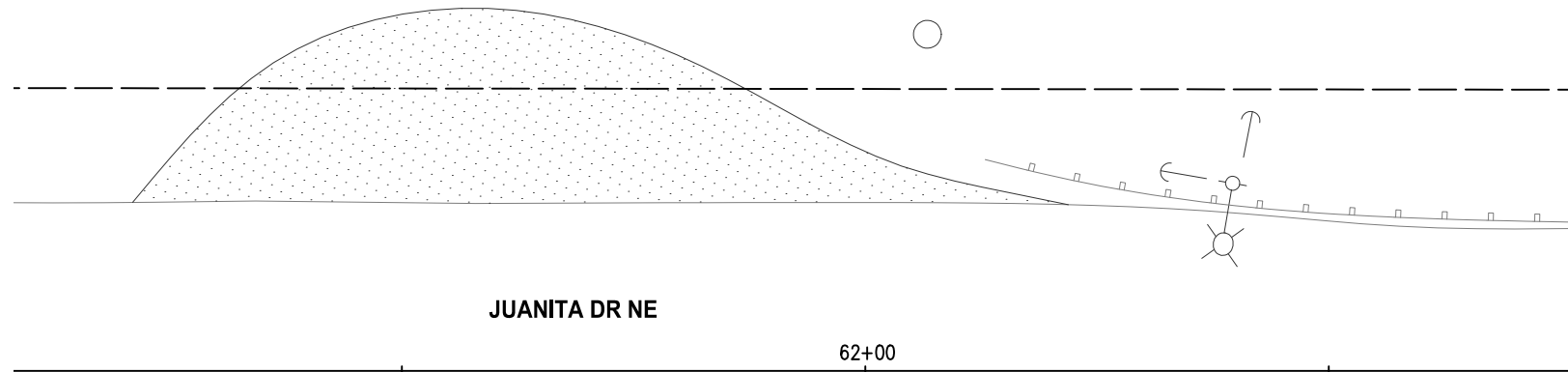
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

NE 132ND ST & JUANITA  
**INTERSECTION PLAN**

REFERENCE SHEET NO.  
 SHEET 53 OF 161 SHEETS

September 17, 2023 - 6:41 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\INT02.DWG - Layout Name: INT (06) NE 133RD PL & JUANITA



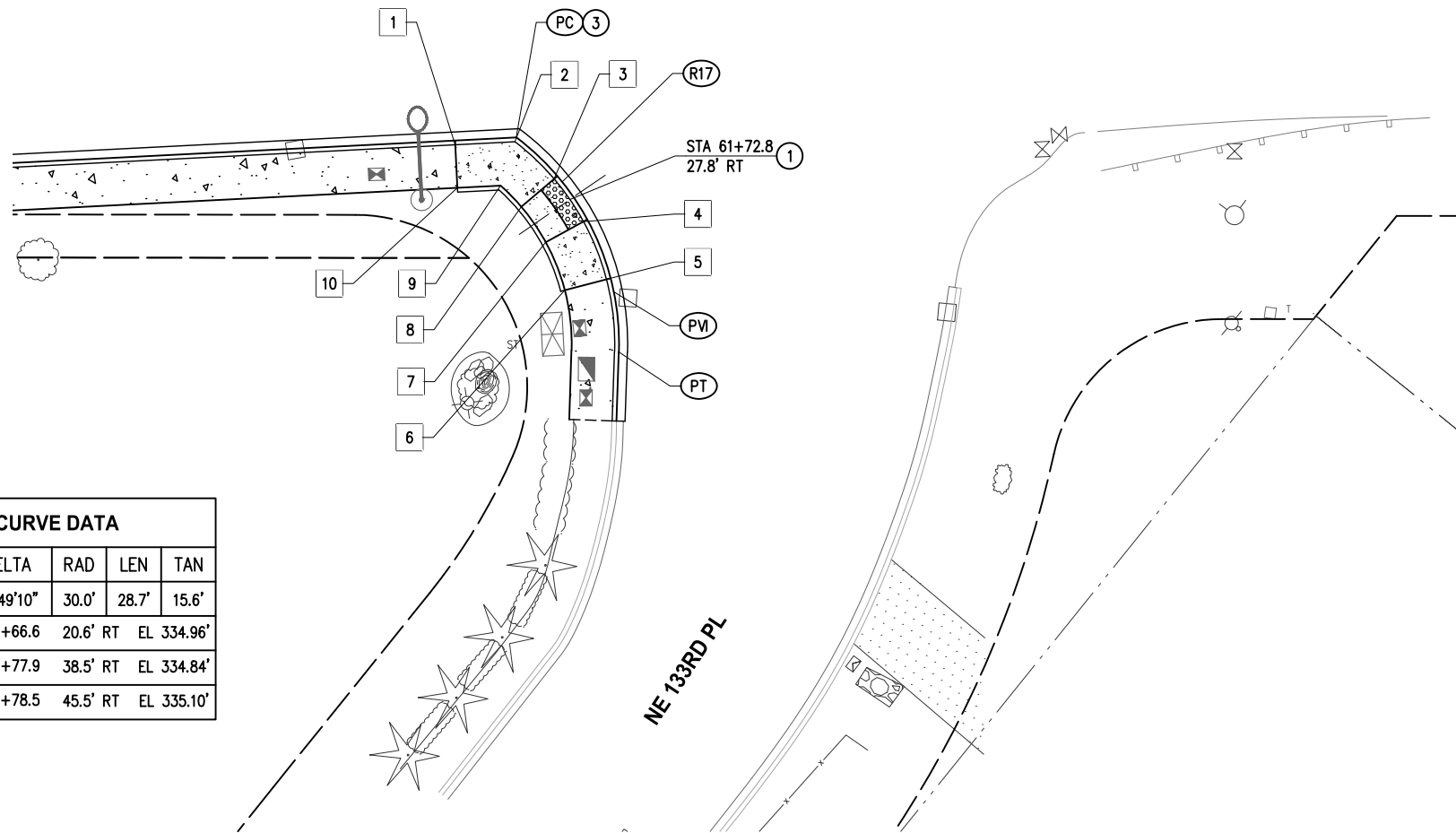
POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	61+59.5	21.4' RT	335.61	TOP OF RAMP
2	61+66.5	21.1' RT	335.29	SPOT ELEV
3	61+71.0	25.4' RT	335.00	LANDING CORNER
4	61+74.4	30.3' RT	334.93	LANDING CORNER
5	61+77.1	37.1' RT	335.36	TOP OF RAMP
6	61+72.3	38.3' RT	335.44	TOP OF RAMP
7	61+70.0	32.7' RT	334.98	LANDING CORNER
8	61+67.2	28.6' RT	335.05	LANDING CORNER
9	61+64.8	26.2' RT	335.31	SPOT ELEV
10	61+59.8	26.4' RT	335.69	TOP OF RAMP

**GENERAL NOTES**

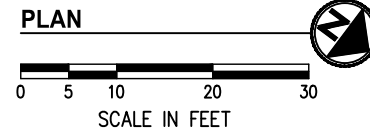
- ALL RAMP AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE SHEETS 5-7 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 33-46 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY. SEE SITE PREP SHEETS 9-16 FOR SAWCUT/MATCH LINES.
- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 33-46, WALL SHEETS 55-63, AND LANDSCAPE SHEETS 74-81, TO THE LIMITS DEFINED ON SITE PREP SHEETS 9-16.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- SEE ALIGNMENT & SURVEY CONTROL SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY.
- ALL CURB INCLUDING PEDESTRIAN CURBS TO BE POURED PRIOR RAMP/LANDINGS

**CONSTRUCTION NOTES**

- MODIFIED PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12 AND DETAIL 2, SHEET 8
- CURB RETURN RADIUS PER DETAIL 2, SHEET 8



#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R17	54°49'10"	30.0'	28.7'	15.6'
PC	STA 61+66.6	20.6' RT	EL 334.96'	
PVI	STA 61+77.9	38.5' RT	EL 334.84'	
PT	STA 61+78.5	45.5' RT	EL 335.10'	



**LEGEND**

- PROPERTY LINE
- RIGHT OF WAY
- CURB AND GUTTER PER C.O.K. STD PLAN CK-R.17
- RETAINING WALL PER PLAN SHEETS 55-62
- CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- TRUNCATED DOME TEXTILE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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DESIGNED BY: DG	DRAWN BY: DG
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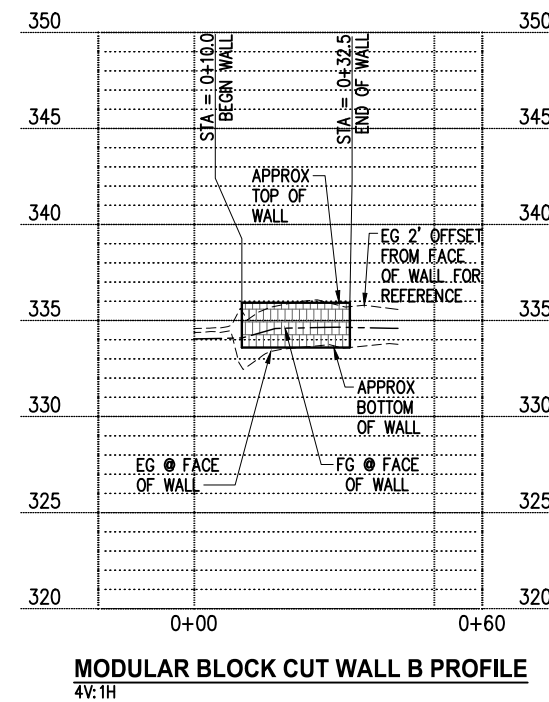
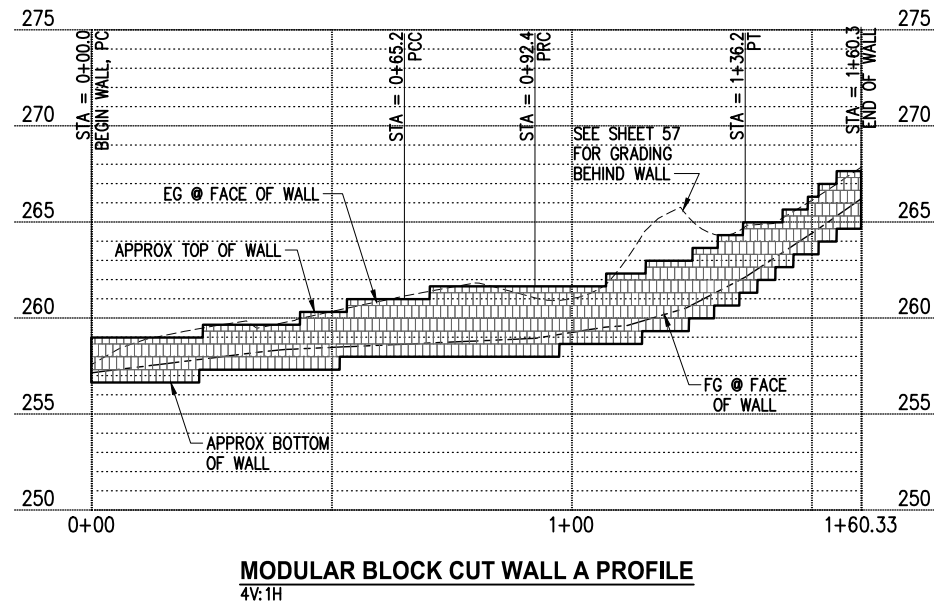
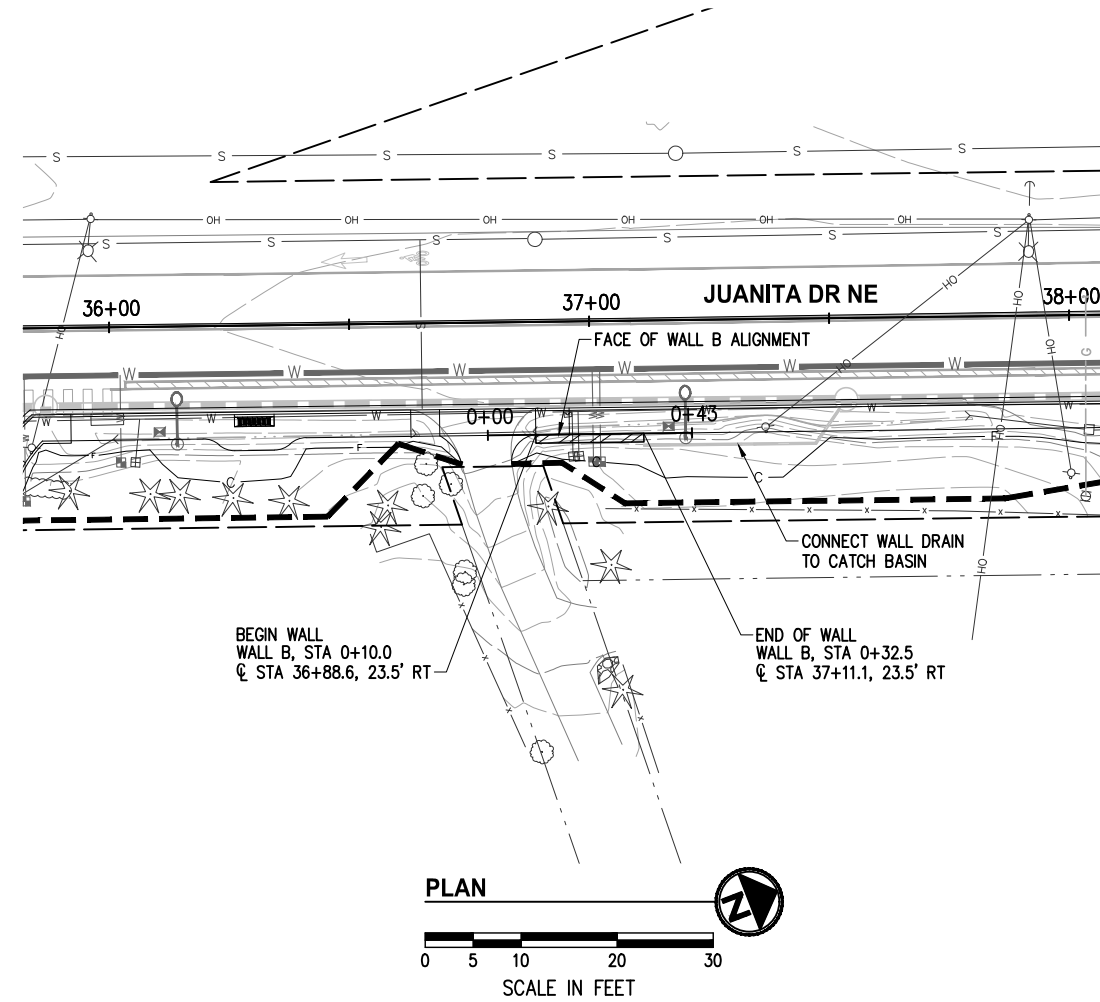
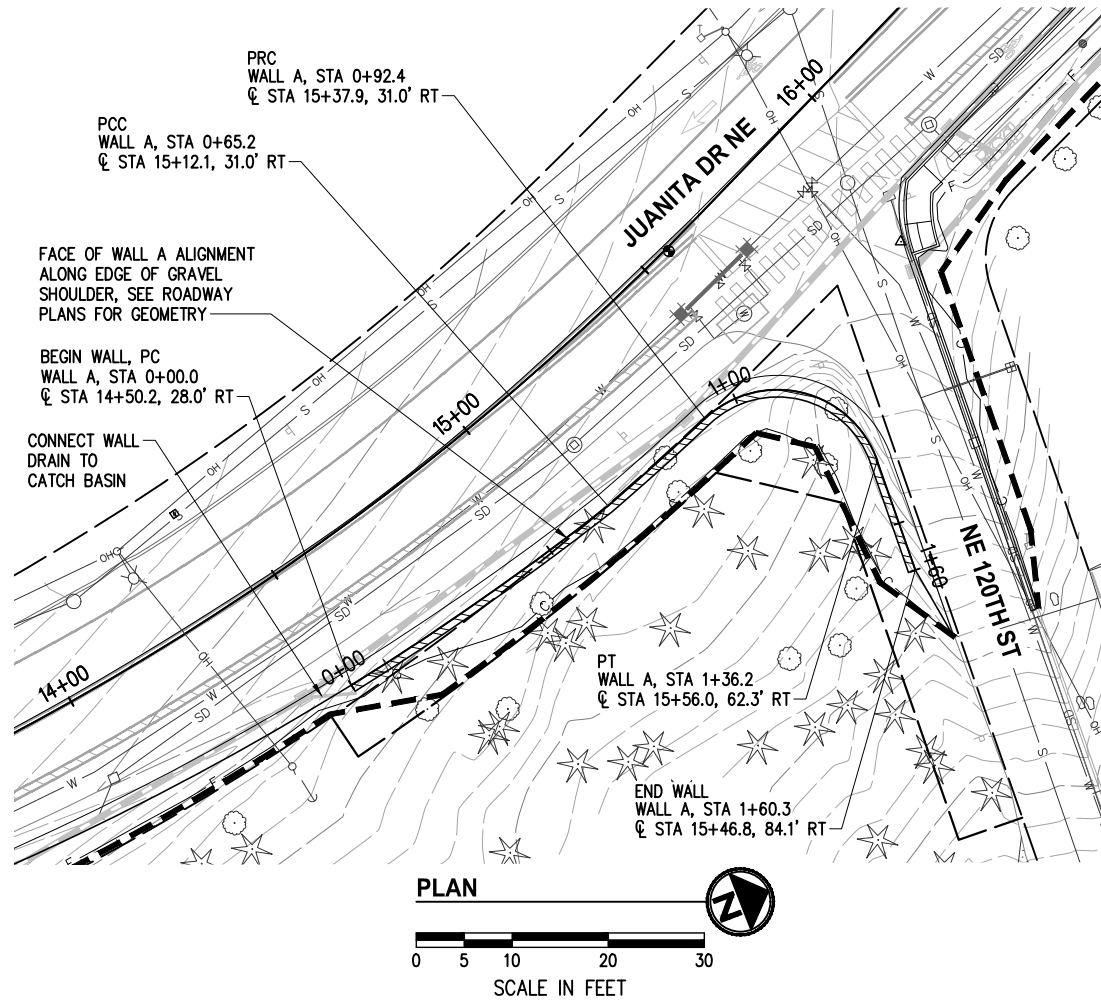
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

NE 133RD PL & JUANITA  
**INTERSECTION PLAN**

REFERENCE SHEET NO.  
 SHEET 54 OF 161 SHEETS

September 16, 2023 - 7:40 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\WALL01\_MOD\_BLOCK.DWG - Layout Name: WALLS A & B



**GENERAL NOTES**

- ELEVATIONS HAVE BEEN PROVIDED FOR USE AS A GUIDE FOR CONSTRUCTION. THE RETAINING WALL SHALL BE CONSTRUCTED PER MANUFACTURER'S RECOMMENDATIONS EXCEPT AS ADJUSTED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES WHILE EXCAVATING FOR WALL. THIS MAY REQUIRE TEMPORARY SHORING DEPENDING ON THE CONSTRUCTION METHODS EMPLOYED BY THE CONTRACTOR.
- LOCATIONS NOTED ARE TO BOTTOM FACE OF WALL, SEE MODULAR BLOCK WALL DETAILS SHEET 57.

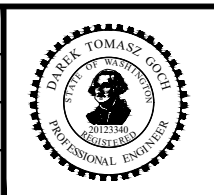
**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- MODULAR BLOCK WALL
- CLEARING & GRUBBING LIMITS PER SHEETS 9-16
- STORM STRUCTURE PER SHEETS 17-29
- STORM PIPE PER SHEETS 17-29
- WATER MAIN PER SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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DESIGNED BY: DG	9/2023
DRAWN BY: AAE	9/2023



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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

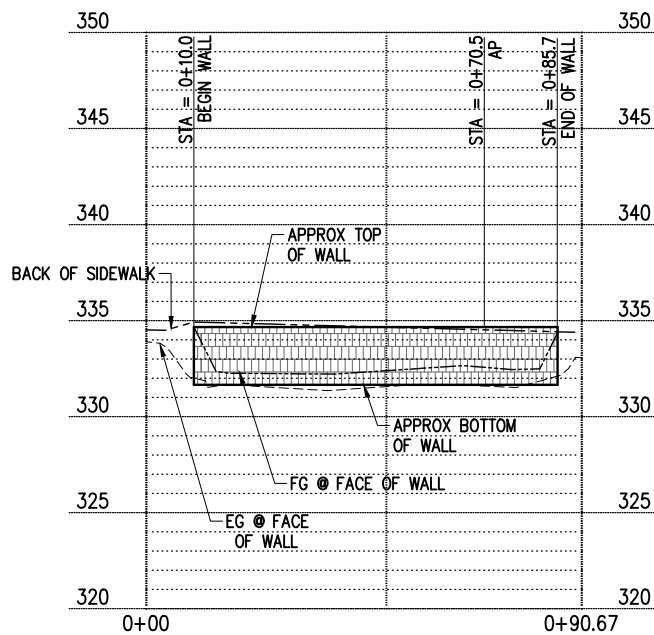
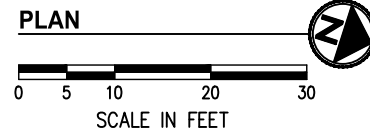
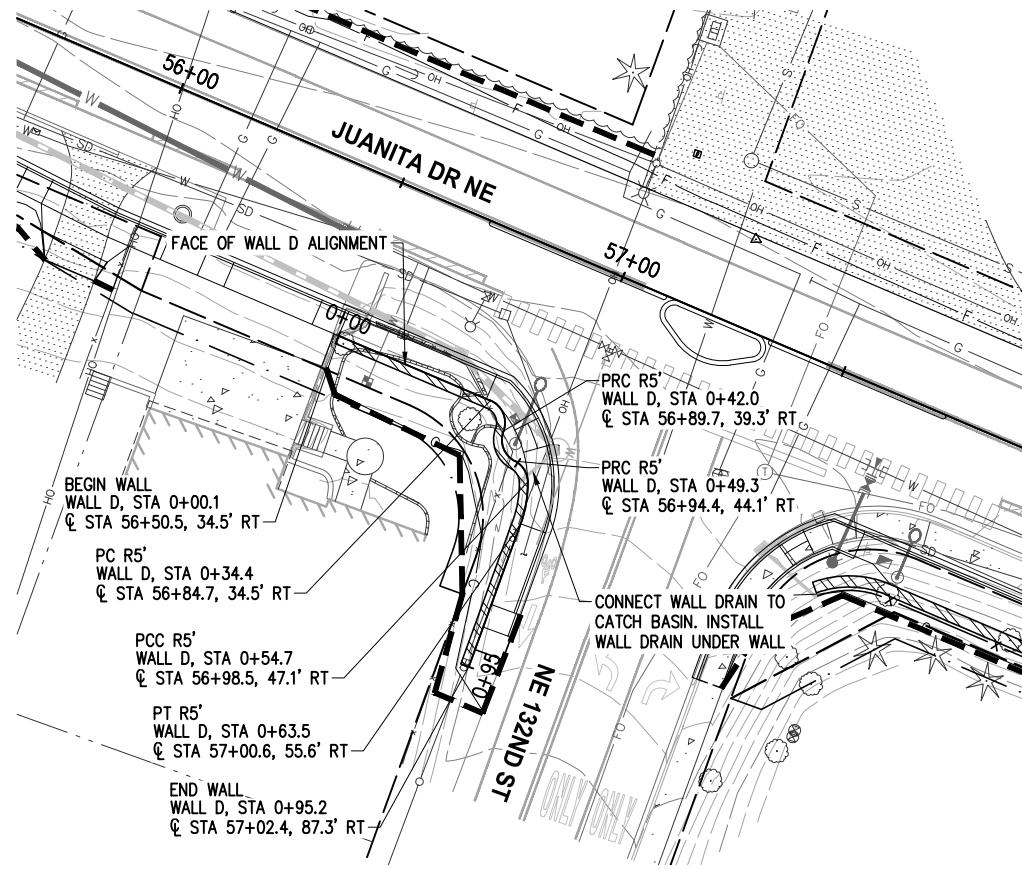
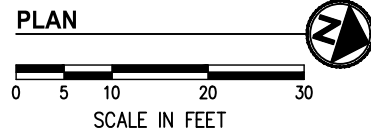
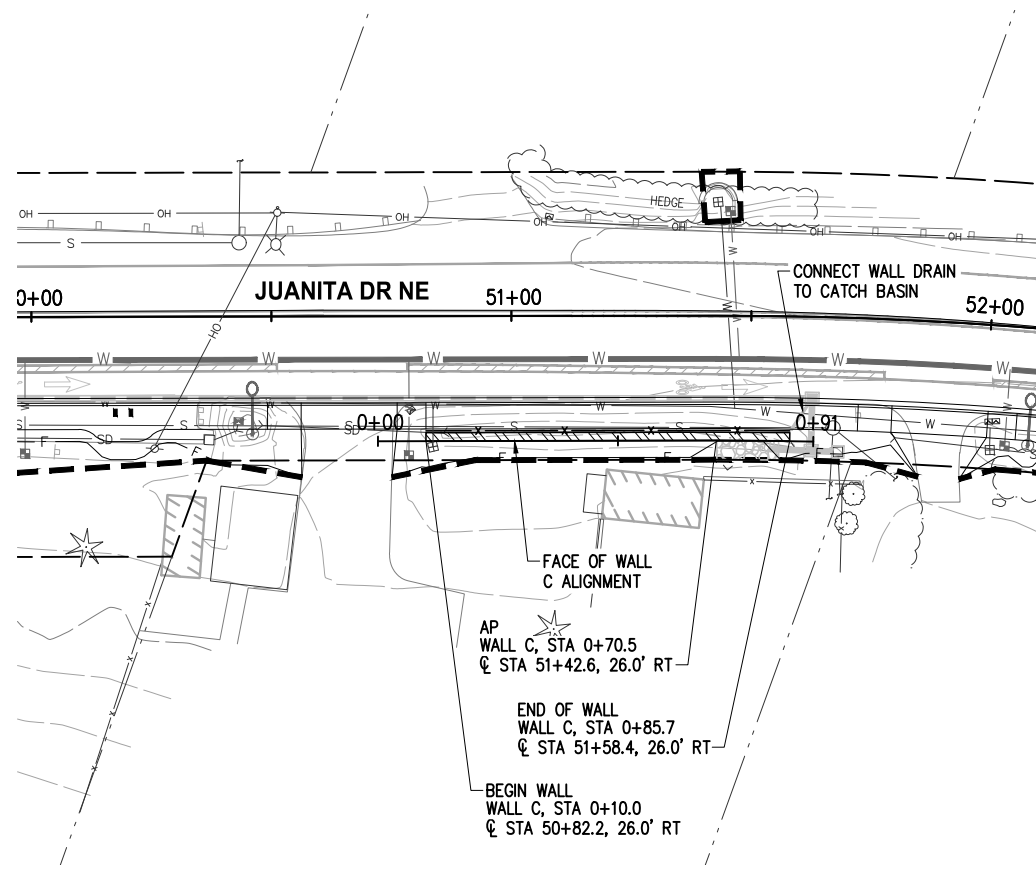
WALLS A & B

**MODULAR BLOCK WALLS**

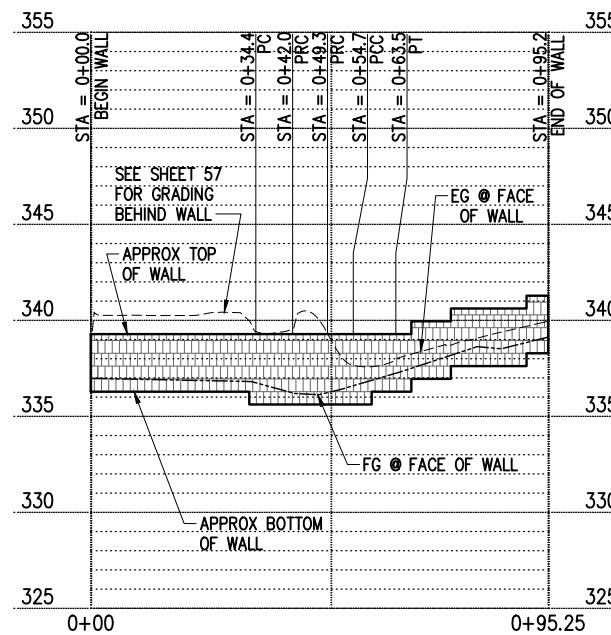
REFERENCE SHEET NO.

SHEET 55 OF 161 SHEETS

September 16, 2023 - 7:40 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WALL01\_MOD\_BLOCK.DWG - Layout Name: WALL C & D



**MODULAR BLOCK FILL WALL C PROFILE**  
4V:1H



**MODULAR BLOCK FILL WALL D PROFILE**  
4V:1H

**GENERAL NOTES**

- ELEVATIONS HAVE BEEN PROVIDED FOR USE AS A GUIDE FOR CONSTRUCTION. THE RETAINING WALL SHALL BE CONSTRUCTED PER MANUFACTURER'S RECOMMENDATIONS EXCEPT AS ADJUSTED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES WHILE EXCAVATING FOR WALL. THIS MAY REQUIRE TEMPORARY SHORING DEPENDING ON THE CONSTRUCTION METHODS EMPLOYED BY THE CONTRACTOR.
- LOCATIONS NOTED ARE TO BOTTOM FACE OF WALL, SEE MODULAR BLOCK WALL DETAILS SHEET 57.

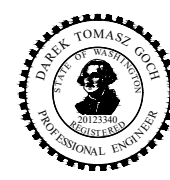
**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- MODULAR BLOCK WALL
- CLEARING & GRUBBING LIMITS PER SHEETS 9-16
- STORM STRUCTURE PER SHEETS 17-29
- STORM PIPE PER SHEETS 17-29
- WATER MAIN PER SHEETS 135-147

DATE	NO.	REVISION	BY



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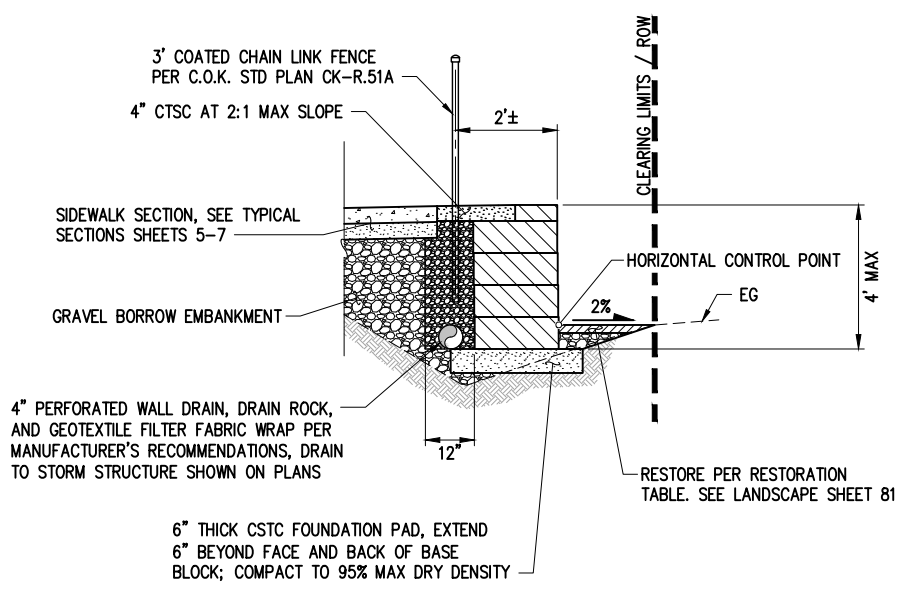
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

WALL C & D  
**MODULAR BLOCK WALLS**

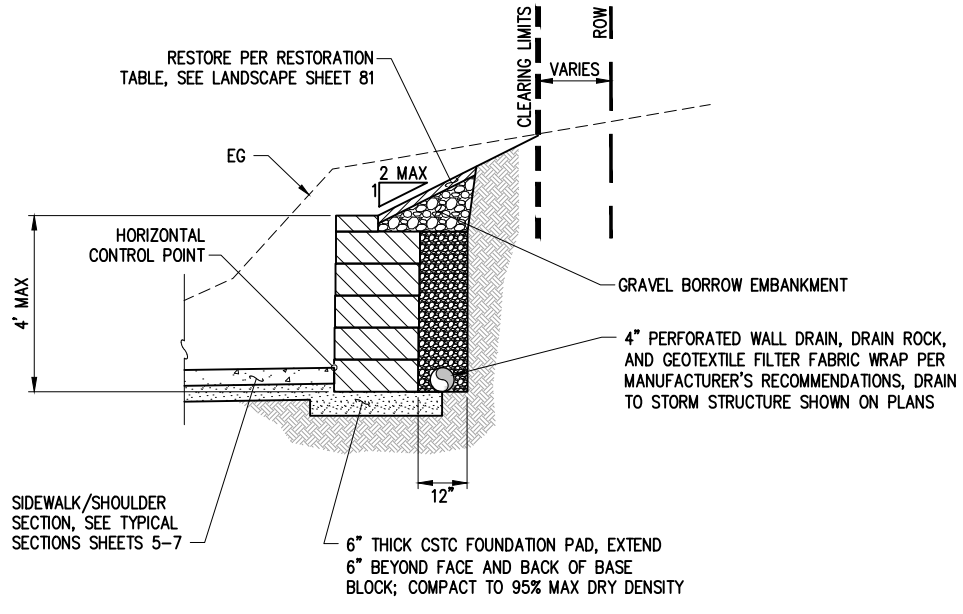
REFERENCE SHEET NO.
SHEET 56 OF 161 SHEETS



September 16, 2023 - 7:40 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\WALL\_DET\_MOD\_BLOCK.DWG - Layout Name: MOD WALL DET01



**MODULAR BLOCK FILL WALL DETAIL 1**  
WALL C  
NTS



**MODULAR BLOCK CUT WALL DETAIL 2**  
WALLS A, B, D  
NTS

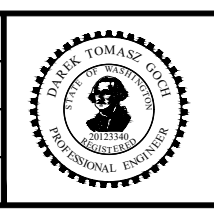
**BLOCK WALL GENERAL NOTES**

1. SEE WALL PLAN SHEETS 55-56 FOR WALL LOCATIONS; STA/OFF CALLOUTS ARE TO HORIZONTAL CONTROL POINT SHOWN.
2. BLOCK WALL SHALL BE STRAIGHT-FACED 21" KEYSTONE STANDARD BLOCKS, NEAR VERTICAL, OR APPROVED EQUAL. BLOCKS SHALL BE CONCRETE GRAY COLOR. UNIT CORE FILL PER MANUFACTURER'S REQUIREMENTS.
3. EMBEDMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
4. MAX PAY LIMIT FOR BLOCK WALLS SHALL BE TOP OF WALL TO 12" MAX EMBEDMENT.

DATE	NO.	REVISION	BY



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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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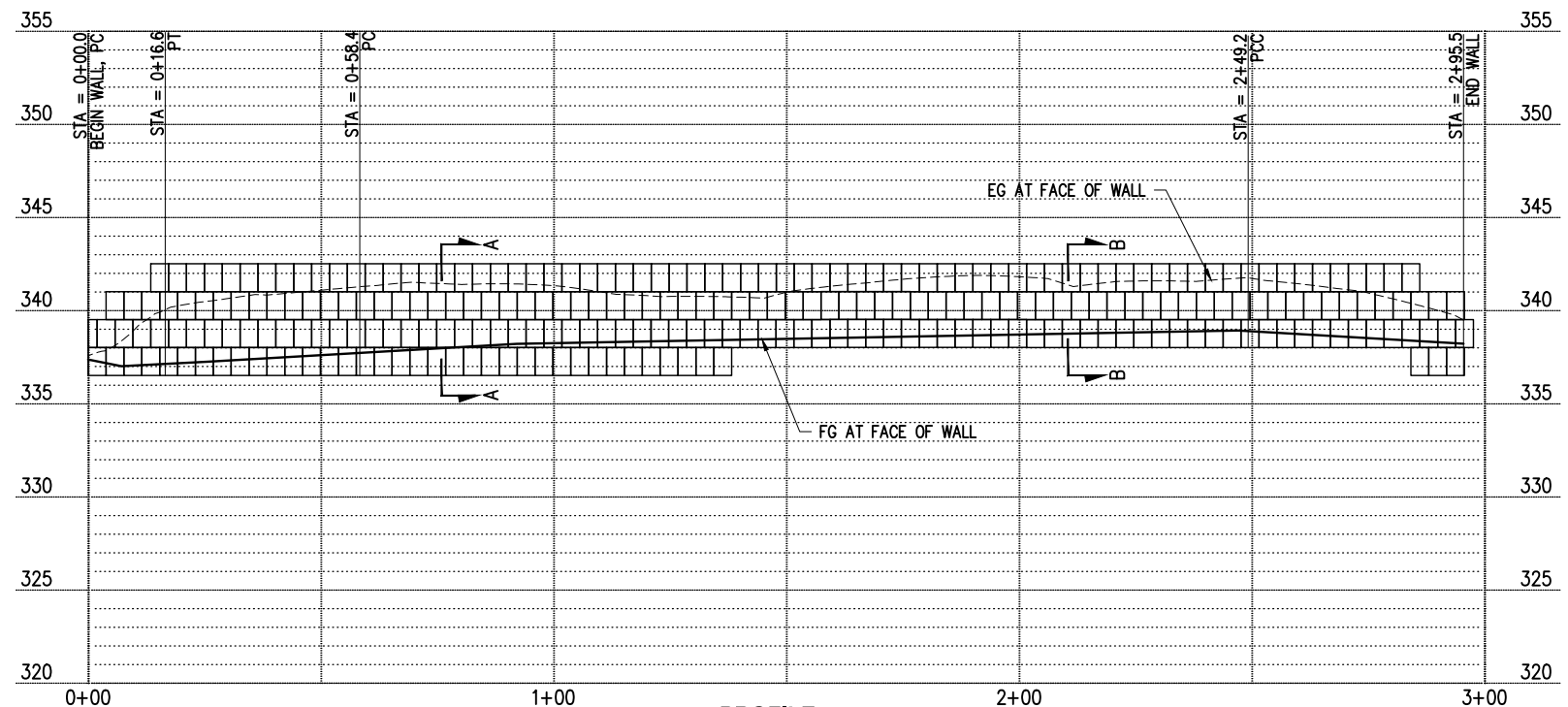
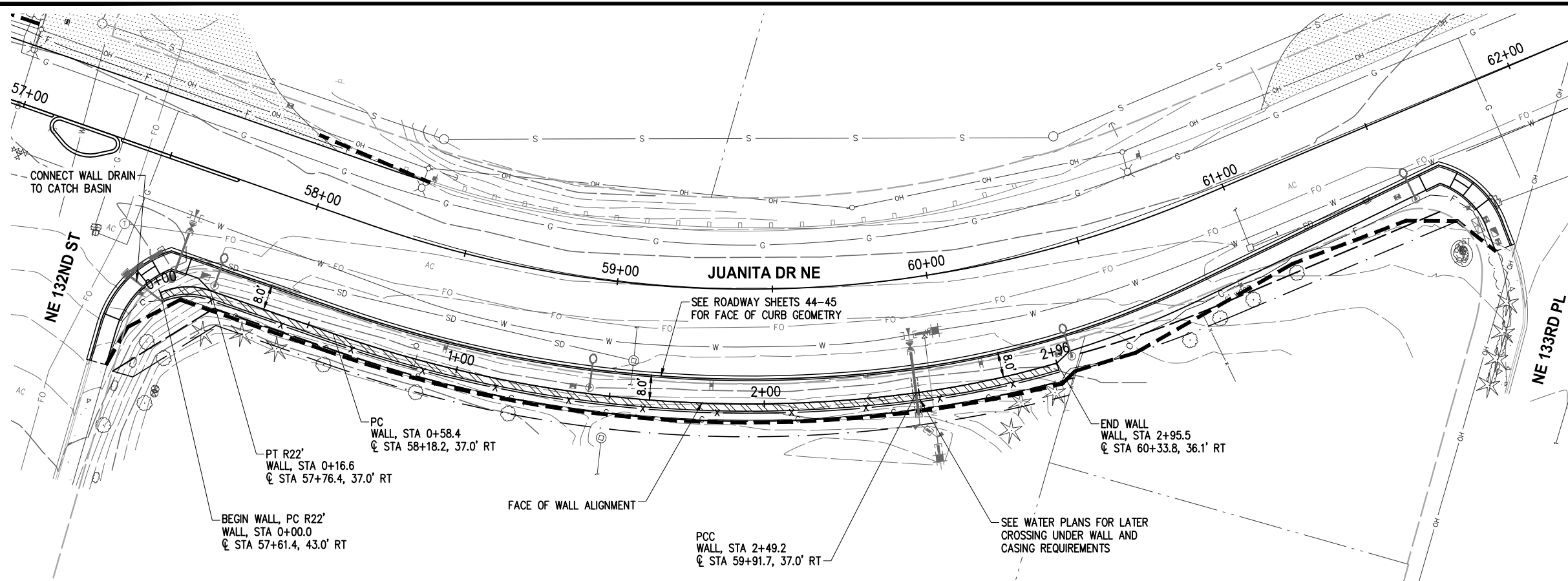
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
DETAILS  
**MODULAR BLOCK WALLS**

REFERENCE SHEET NO.
SHEET 57 OF 161 SHEETS

September 16, 2023 - 7:42 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WALL01\_GRAV.DWG - Layout Name: (1) GRAV WALL 6\_NV5



- GENERAL NOTES**
- ELEVATIONS HAVE BEEN PROVIDED FOR USE AS A GUIDE FOR CONSTRUCTION. THE RETAINING WALL SHALL BE CONSTRUCTED PER MANUFACTURER'S RECOMMENDATIONS EXCEPT AS ADJUSTED IN THE FIELD BY THE ENGINEER.
  - CONTRACTOR SHALL PROTECT EXISTING UTILITIES WHILE EXCAVATING FOR WALL. THIS MAY REQUIRE TEMPORARY SHORING DEPENDING ON THE CONSTRUCTION METHODS EMPLOYED BY THE CONTRACTOR.
  - EMBEDMENT SHALL BE A MINIMUM OF 6" BENEATH THE FACE OF THE WALL. INCREASE EMBEDMENT WHERE SLOPES ARE PRESENT IN FRONT OF WALL SO THAT THERE IS AT LEAST 5 FEET OF FLAT GROUND IN FRONT OF BASE OF WALL.
  - BLOCK WALL SHALL BE REDI-ROCK BLOCKS OR APPROVED EQUAL PROVIDED THEY MEET THE SPECIFICATIONS PROVIDED IN THE GRAVITY BLOCK WALL SPECIFICATIONS. BLOCKS SHALL BE A COLOR FROM MANUFACTURER'S STANDARD COLORS AND FINISH SHALL BE AS APPROVED BY THE OWNER.
  - FOR GRAVITY BLOCK WALL DETAILS SEE SHEET 59.

- LEGEND**
- RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - STRUCTURAL GRAVITY BLOCK WALL
  - CLEARING & GRUBBING LIMITS PER SHEETS 9-16
  - STORM STRUCTURE PER SHEETS 17-29
  - STORM PIPE PER SHEETS 17-29
  - WATER MAIN PER SHEETS 135-147

DATE	NO.	REVISION	BY



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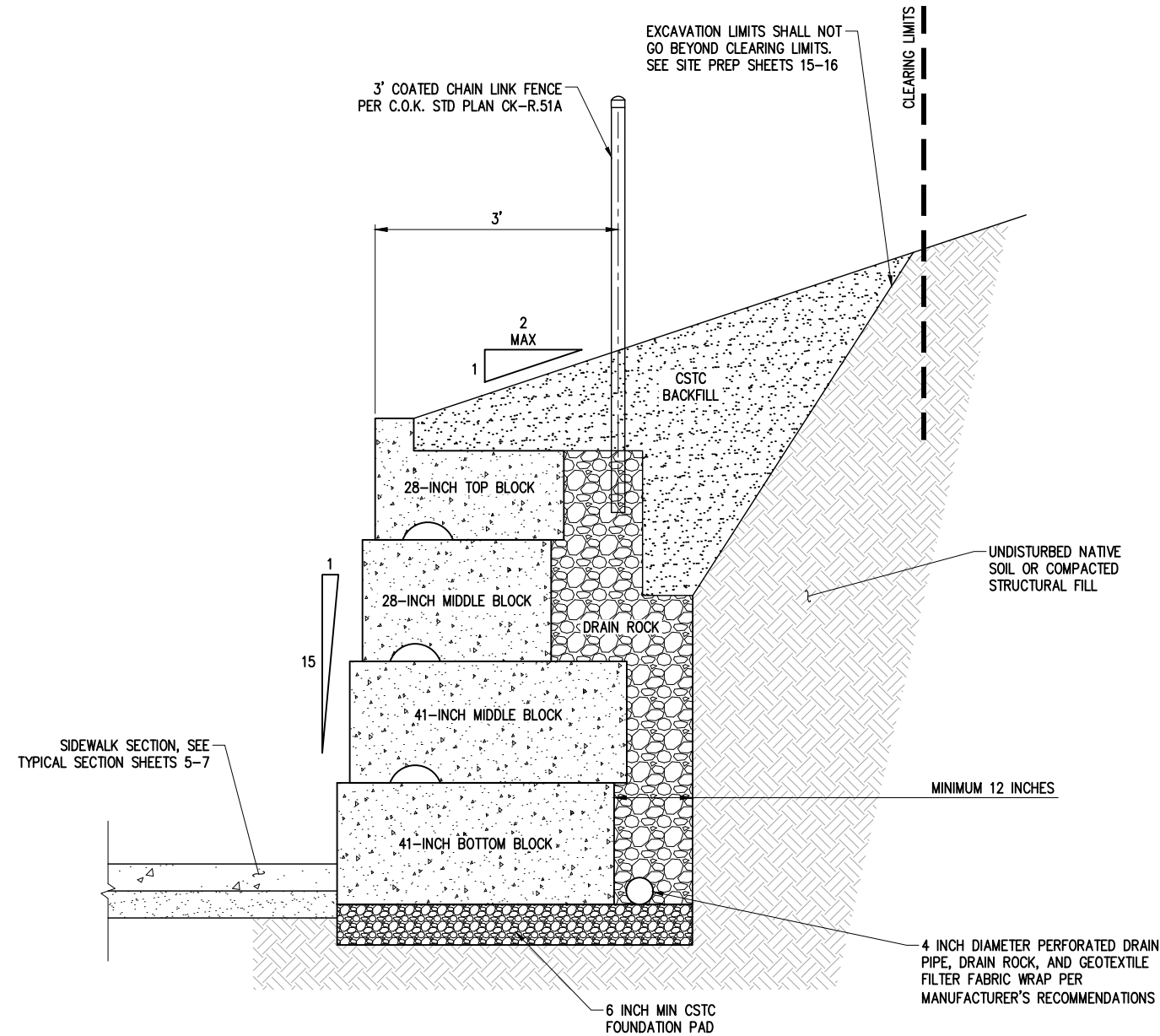
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

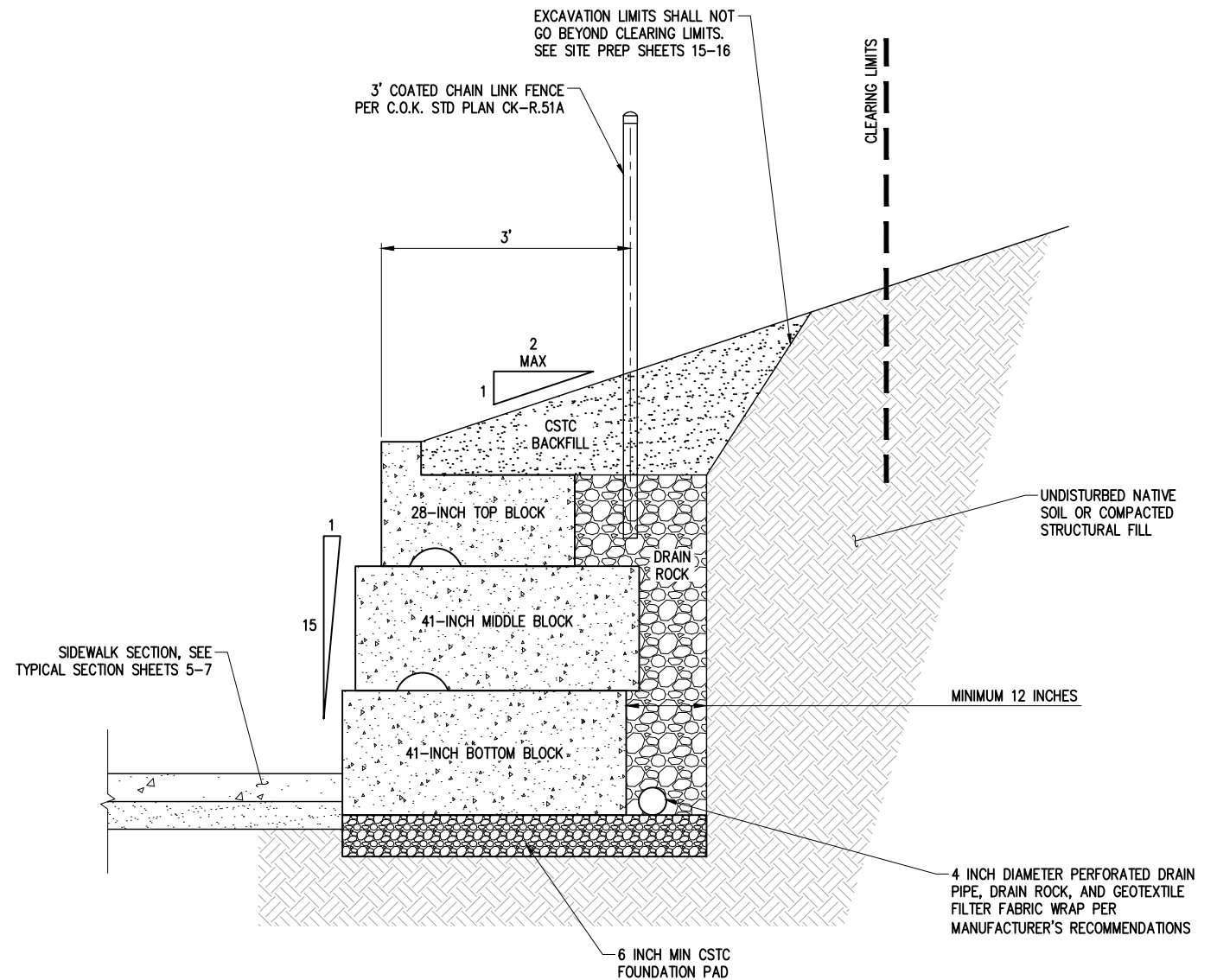
GRAVITY BLOCK WALL

REFERENCE SHEET NO.
SHEET 58 OF 161 SHEETS

September 16, 2023 - 7:42 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065WALL\_DET\_GRAVITY.DWG - Layout Name: GRAY WALL DET01



**GRAVITY BLOCK WALL SECTION A-A**  
NTS



**GRAVITY BLOCK WALL SECTION B-B**  
NTS

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
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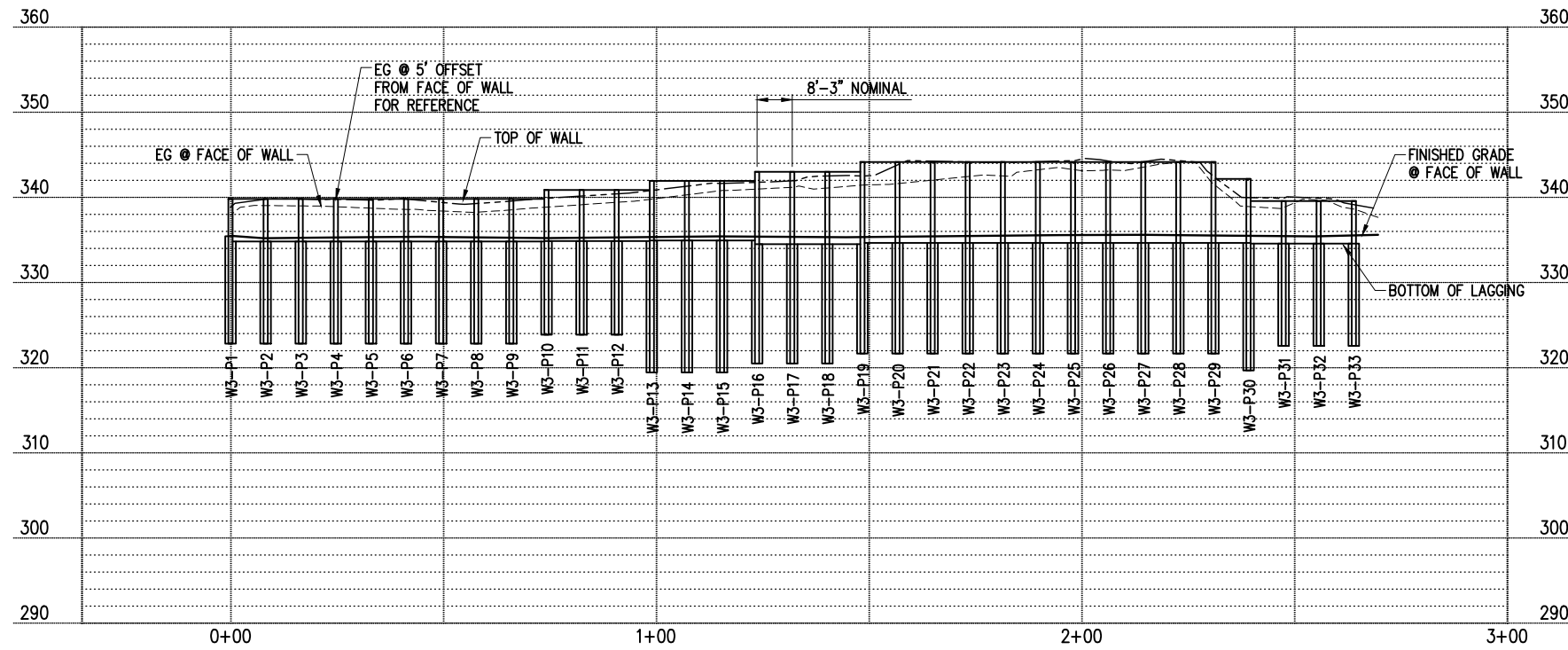
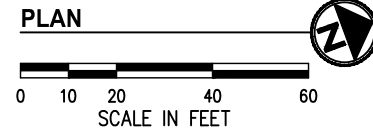
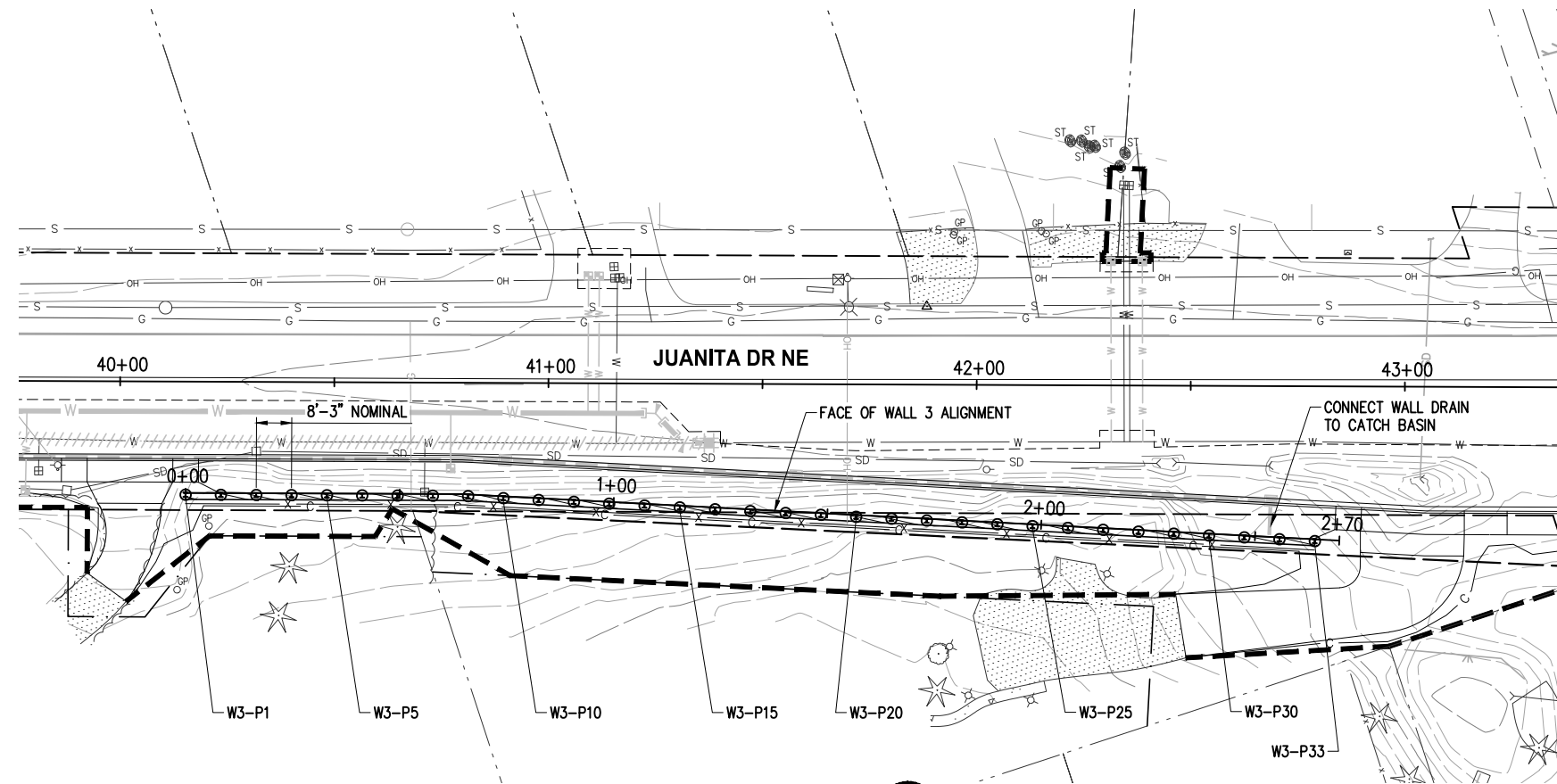
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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

DETAILS  
**GRAVITY BLOCK WALL**

REFERENCE SHEET NO.
SHEET 59 OF 161 SHEETS

September 16, 2023 - 7:43 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WALL01\_SOLDIER\_PILE\_WALL.DWG - Layout Name: (3) WALL 3



**WALL 3 PROFILE**

**GENERAL NOTES**

1. FOR SOLDIER PILE WALL DETAILS SEE SHEET 62.
2. FOR PILE SCHEDULE SEE SHEET 63.
3. FOR INSTALLATION OF WATER SERVICES AND SEWER LATERALS UNDER WALL SEE WATER & SEWER PLANS SHEETS 135-147.

**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- SOLDIER PILE WALL
- CLEARING & GRUBBING LIMITS PER SHEETS 9-16
- STORM STRUCTURE PER SHEETS 17-29
- STORM PIPE PER SHEETS 17-29
- WATER MAIN PER SHEETS 135-147

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

**WALL 3  
SOLDIER PILE WALL**

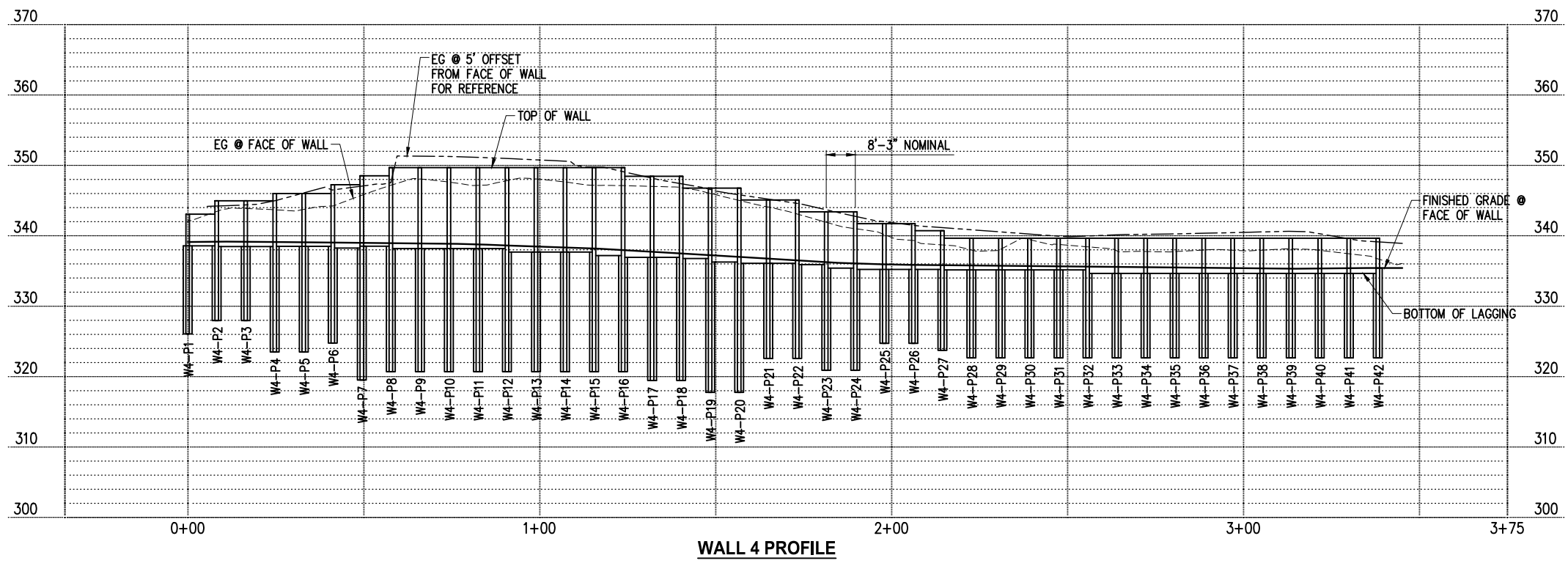
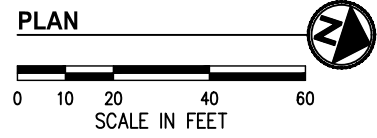
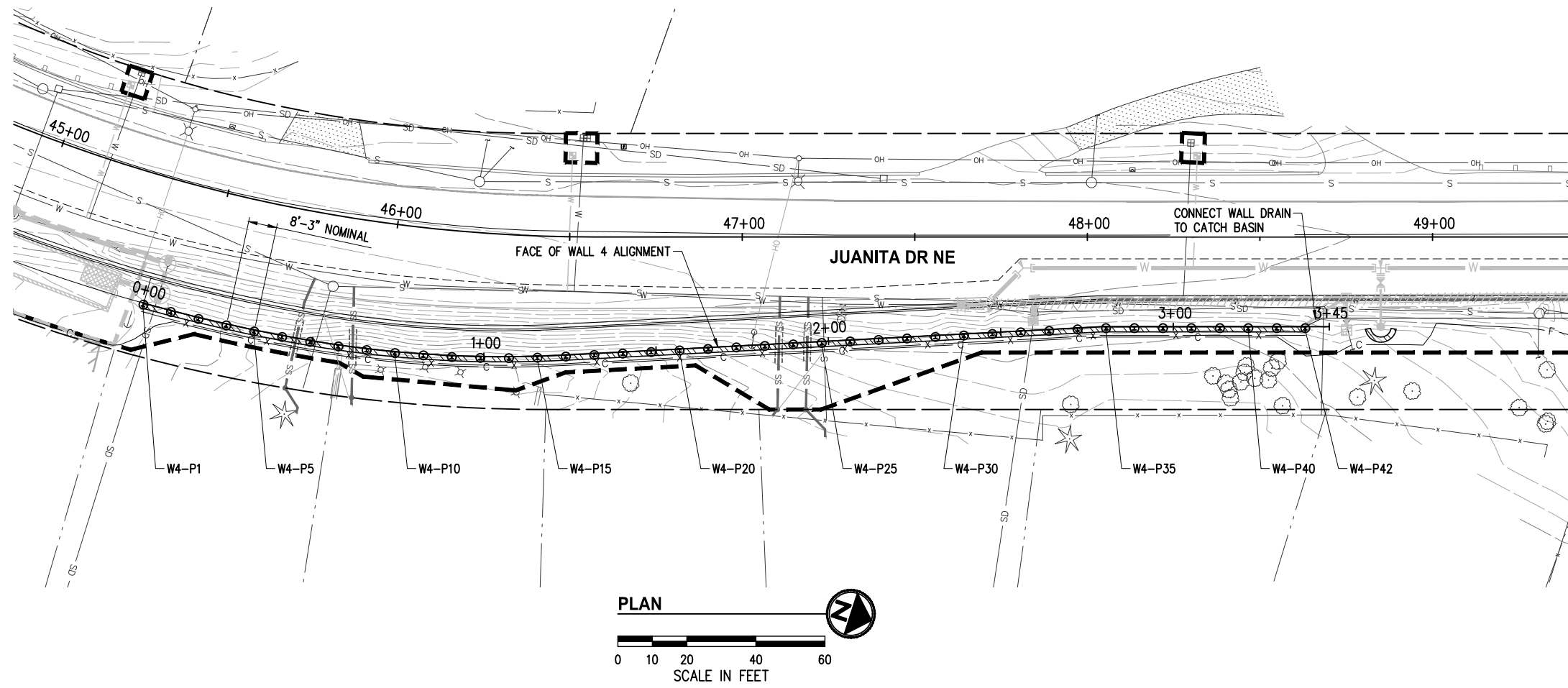
REFERENCE SHEET NO.

SHEET  
60  
OF  
161  
SHEETS

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**GENERAL NOTES**

1. FOR SOLDIER PILE WALL DETAILS SEE SHEET 62.
2. FOR PILE SCHEDULE SEE SHEET 63.
3. FOR INSTALLATION OF WATER SERVICES AND SEWER LATERALS UNDER WALL SEE WATER & SEWER PLANS SHEETS 135-147.



**LEGEND**

- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- SOLDIER PILE WALL
- CLEARING & GRUBBING LIMITS PER SHEETS 9-16
- STORM STRUCTURE PER SHEETS 17-29
- STORM PIPE PER SHEETS 17-29
- WATER MAIN PER SHEETS 135-147

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MR	DRAWN BY: MR
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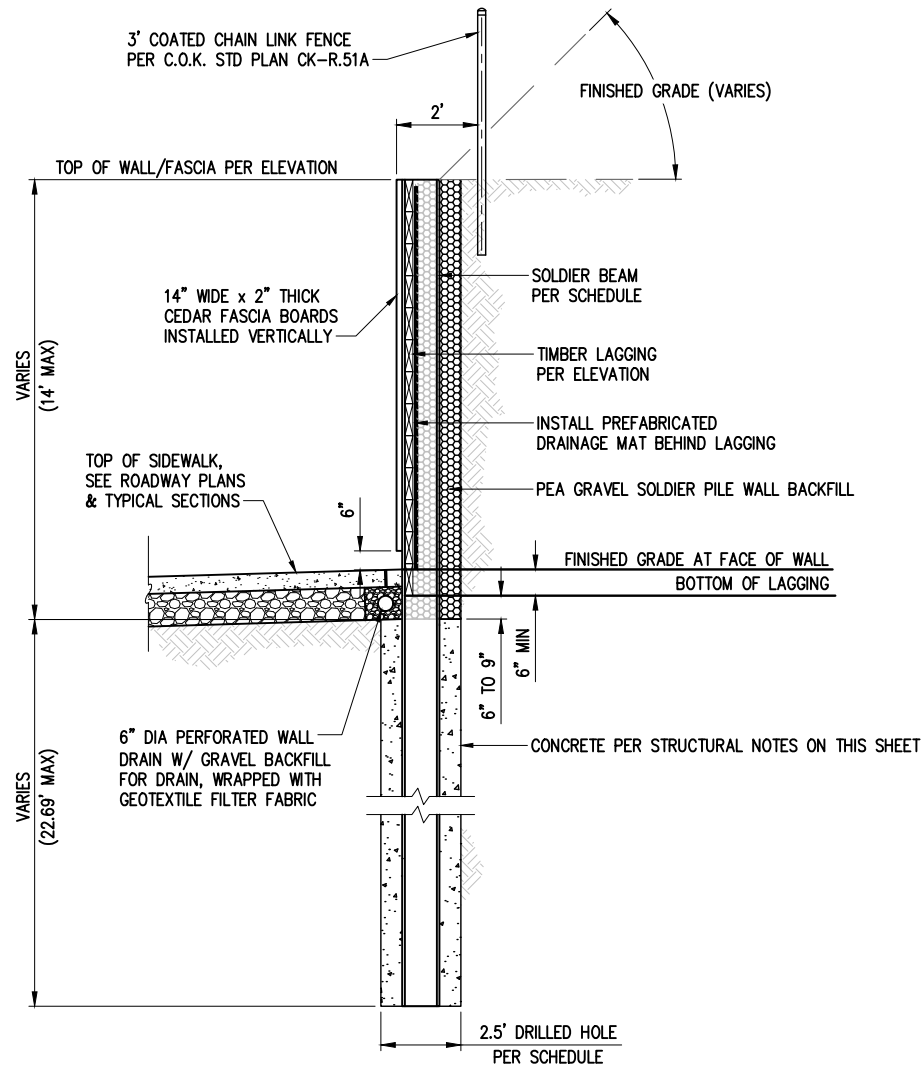
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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

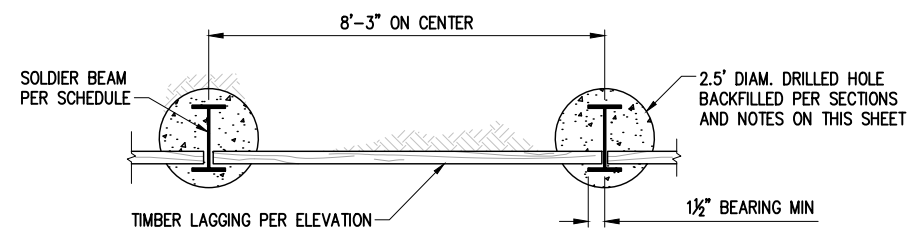
WALL 4  
**SOLDIER PILE WALL**

REFERENCE SHEET NO.
SHEET 61 OF 161 SHEETS

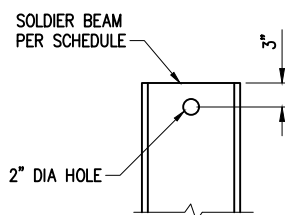
September 16, 2023 - 7:43 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\WALL\_DET\_SOLDR\_PILE.DWG - Layout Name: WALL\_DET01\_SP



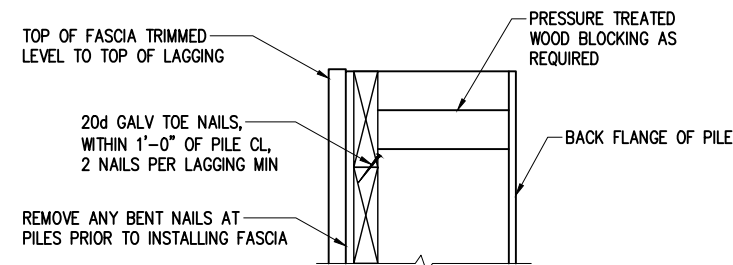
**DRILLED CANTILEVER CROSS SECTION** A  
NTS



**LAGGING DETAIL** 2  
NTS

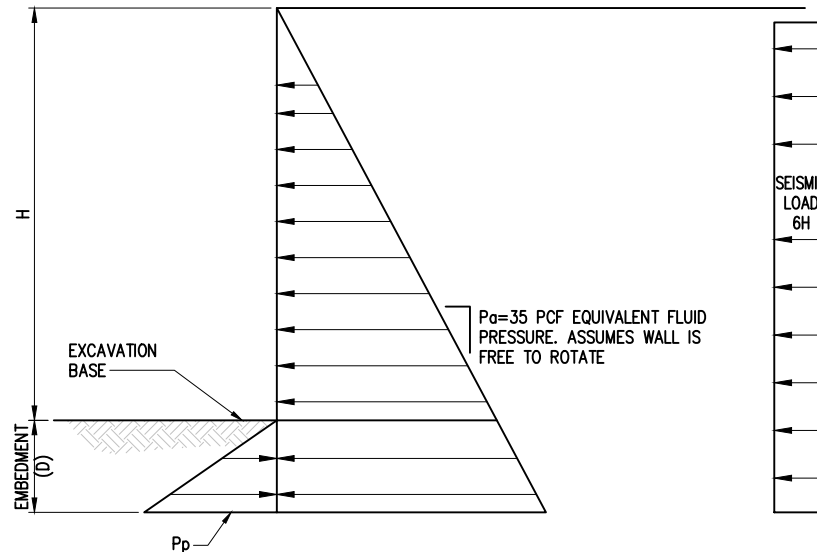


**PILE LIFTING HOLE DETAIL** 3  
NTS



- NOTES**
- ALL NAILS SHALL BE GALVANIZED.
  - FASCIA BOARD SHALL BE FULL AND ROUGH SAWN WESTERN CEDAR #2.

**FASCIA DETAIL** 4  
NTS



- NOTES**
- $P_p = 350 D$  PCF IN UNDISTURBED GLACIALLY CONSOLIDATED SOIL
  - $H_1$  = HEIGHT OF EXPOSED SOLDIER PILE IN FEET
  - PASSIVE PRESSURE ACTS OVER 3X THE PILE WIDTH IN UNDISTURBED GLACIALLY CONSOLIDATED SOIL
  - ACTIVE PRESSURE ACTS OVER 1X THE PILE WIDTH

**PRESSURE DIAGRAM DETAIL** 1  
NTS

**GENERAL STRUCTURAL NOTES**

**DESIGN CRITERIA**

APPLICABLE BUILDING NOTES AND CODES  
INTERNATIONAL BUILDING CODE, IBC 2012 EDITION WITH STATE OF WASHINGTON AMENDMENTS,  
EXCEPT WHERE OTHER CODES ARE MORE RESTRICTIVE.

**SOLDIER PILES**

WORK SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS 6-16, UNLESS OTHERWISE NOTED IN THE DRAWINGS.

**CONCRETE**

DESIGN STRENGTH  
CAST-IN-PLACE CONCRETE, UNLESS OTHERWISE NOTED  
 $f_c = 4000$  psi AT 28 DAYS

**SOLDIER PILE BACKFILL (ABOVE CONCRETE)**

CAST-IN-PLACE LEAN MIX CONCRETE, UNLESS OTHERWISE NOTED  
 $f_c = 500$  psi AT 28 DAYS

**STEEL**

MATERIAL  
ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTES OTHERWISE ON THE DRAWINGS. SUBMIT SHOP DRAWINGS:

WIDE FLANGE SHAPES      ASTM A992 OR ASTM A572, GRADE 50

**SPECIAL INSPECTION**

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTION 1704:

- SOLDIER PILES, SPECIAL GRADING, EXCAVATION
- \*FOUNDATION EXCAVATIONS
- \*BACKFILL BEHIND STRUCTURAL WALLS
- \*SHAFT EXCAVATION

**MISCELLANEOUS**

SUBMIT ALL REQUIRED SHOP DRAWINGS AND RECEIVE THEIR SATISFACTORY REVIEW FROM THE ENGINEER, PRIOR TO FABRICATION.

COORDINATE AND VERIFY ALL DIMENSIONS WITH GENERAL AND CIVIL DRAWINGS AND CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES DURING ALL PHASES OF CONSTRUCTION. REFER TO WSDOT STANDARD SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MR	DRAWN BY: MR
9/2023	9/2023



**CITY OF KIRKLAND**  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

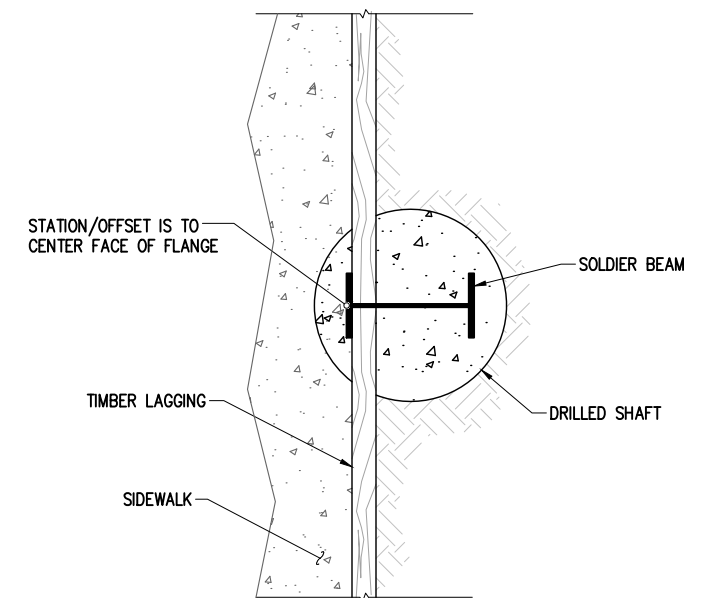
DETAILS  
**SOLDIER PILE WALL**

REFERENCE SHEET NO.
SHEET 62 OF 161 SHEETS

September 16, 2023 - 7:44 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065WALL\_PILE\_SCHEDULE.DWG - Layout Name: PILE SCHEDULE01

PILE	PILE SIZE	STATION	OFFSET	TOP OF PILE	BOTTOM OF PILE	FG @ FACE OF WALL
W3-P1	W12X40	40+15.4	26.0' RT	339.82	322.82	335.00
W3-P2	W12X40	40+23.6	26.0' RT	339.82	322.82	335.27
W3-P3	W12X40	40+31.9	26.0' RT	339.82	322.82	335.31
W3-P4	W12X40	40+40.1	26.0' RT	339.82	322.82	335.35
W3-P5	W12X40	40+48.4	26.0' RT	339.82	322.82	335.39
W3-P6	W12X40	40+56.6	26.0' RT	339.82	322.82	335.38
W3-P7	W12X40	40+64.9	26.0' RT	339.82	322.82	335.35
W3-P8	W12X40	40+73.1	26.0' RT	339.82	322.82	335.31
W3-P9	W12X40	40+81.4	26.1' RT	339.82	322.82	335.27
W3-P10	W12X40	40+89.6	26.5' RT	340.88	323.88	335.22
W3-P11	W12X40	40+97.9	26.9' RT	340.88	323.88	335.26
W3-P12	W12X40	41+06.1	27.3' RT	340.88	323.88	335.30
W3-P13	HP12X63	41+14.3	27.7' RT	341.94	319.44	335.34
W3-P14	HP12X63	41+22.6	28.1' RT	341.94	319.44	335.39
W3-P15	HP12X63	41+30.8	28.5' RT	341.94	319.44	335.43
W3-P16	HP12X63	41+39.1	28.9' RT	343.00	320.50	335.41
W3-P17	HP12X63	41+47.3	29.3' RT	343.00	320.50	335.37
W3-P18	HP12X63	41+55.5	29.7' RT	343.00	320.50	335.34
W3-P19	HP12X63	41+63.8	30.1' RT	344.15	321.65	335.34
W3-P20	HP12X63	41+72.0	30.5' RT	344.15	321.65	335.38
W3-P21	HP12X63	41+80.3	30.9' RT	344.15	321.65	335.42
W3-P22	HP12X63	41+88.5	31.3' RT	344.15	321.65	335.47
W3-P23	HP12X63	41+96.7	31.7' RT	344.15	321.65	335.51
W3-P24	HP12X63	42+05.0	32.1' RT	344.15	321.65	335.55
W3-P25	HP12X63	42+13.2	32.5' RT	344.15	321.65	335.59
W3-P26	HP12X63	42+21.5	32.9' RT	344.15	321.65	335.62
W3-P27	HP12X63	42+29.7	33.3' RT	344.15	321.65	335.60
W3-P28	HP12X63	42+37.9	33.7' RT	344.15	321.65	335.56
W3-P29	HP12X63	42+46.2	34.1' RT	344.15	321.65	335.52
W3-P30	HP12X63	42+54.4	34.5' RT	342.18	319.68	335.48
W3-P31	W12X40	42+62.7	34.9' RT	339.56	322.56	335.44
W3-P32	W12X40	42+70.9	35.3' RT	339.56	322.56	335.44
W3-P33	W12X40	42+79.1	35.7' RT	339.56	322.56	335.54
W4-P1	W12X40	45+35.0	37.0' RT	343.07	326.07	339.12
W4-P2	W12X40	45+42.6	37.0' RT	344.97	327.97	339.16
W4-P3	W12X40	45+50.2	37.0' RT	344.97	327.97	339.16
W4-P4	HP12X63	45+57.9	37.0' RT	346.00	323.50	339.12
W4-P5	HP12X63	45+65.5	37.0' RT	346.00	323.50	339.08

PILE	PILE SIZE	STATION	OFFSET	TOP OF PILE	BOTTOM OF PILE	FG @ FACE OF WALL
W4-P6	HP12X63	45+73.1	37.0' RT	347.26	324.76	339.03
W4-P7	W18X76	45+80.7	37.0' RT	348.52	319.52	338.99
W4-P8	W18X76	45+88.4	36.9' RT	349.69	320.69	338.95
W4-P9	W18X76	45+96.0	36.8' RT	349.69	320.69	338.91
W4-P10	W18X76	46+03.6	36.7' RT	349.69	320.69	338.87
W4-P11	W18X76	46+11.2	36.4' RT	349.69	320.69	338.78
W4-P12	W18X76	46+18.9	36.1' RT	349.69	320.69	338.63
W4-P13	W18X76	46+26.5	35.8' RT	349.69	320.69	338.49
W4-P14	W18X76	46+34.1	35.3' RT	349.69	320.69	338.33
W4-P15	W18X76	46+41.8	34.8' RT	349.69	320.69	338.19
W4-P16	W18X76	46+49.4	34.3' RT	349.69	320.69	337.99
W4-P17	W18X76	46+57.1	33.8' RT	348.45	319.45	337.75
W4-P18	W18X76	46+65.3	33.3' RT	348.45	319.45	337.50
W4-P19	W18X76	46+73.6	32.9' RT	346.77	317.77	337.25
W4-P20	W18X76	46+81.8	32.5' RT	346.77	317.77	337.01
W4-P21	HP12X63	46+90.0	32.0' RT	345.08	322.58	336.76
W4-P22	HP12X63	46+98.3	31.6' RT	345.08	322.58	336.51
W4-P23	HP12X63	47+06.5	31.2' RT	343.40	320.90	336.26
W4-P24	HP12X63	47+14.7	30.7' RT	343.40	320.90	336.08
W4-P25	W12X40	47+23.0	30.3' RT	341.72	324.72	335.95
W4-P26	W12X40	47+31.2	29.9' RT	341.72	324.72	335.87
W4-P27	W12X40	47+39.5	29.4' RT	340.72	323.72	335.83
W4-P28	W12X40	47+47.7	29.0' RT	339.66	322.66	335.79
W4-P29	W12X40	47+55.9	28.6' RT	339.66	322.66	335.75
W4-P30	W12X40	47+64.2	28.1' RT	339.66	322.66	335.71
W4-P31	W12X40	47+72.4	27.7' RT	339.66	322.66	335.67
W4-P32	W12X40	47+80.7	27.2' RT	339.66	322.66	335.63
W4-P33	W12X40	47+88.9	26.8' RT	339.66	322.66	335.58
W4-P34	W12X40	47+97.1	26.4' RT	339.66	322.66	335.54
W4-P35	W12X40	48+05.4	26.0' RT	339.66	322.66	335.50
W4-P36	W12X40	48+13.6	26.0' RT	339.66	322.66	335.46
W4-P37	W12X40	48+21.9	26.0' RT	339.66	322.66	335.42
W4-P38	W12X40	48+30.1	26.0' RT	339.66	322.66	335.38
W4-P39	W12X40	48+38.4	26.0' RT	339.66	322.66	335.34
W4-P40	W12X40	48+46.6	26.0' RT	339.66	322.66	335.30
W4-P41	W12X40	48+54.9	26.0' RT	339.66	322.66	335.25
W4-P42	W12X40	48+63.1	26.0' RT	339.66	322.66	335.21



**SOLDIER BEAM CONTROL POINT**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MR	DRAWN BY: MR
9/2023	9/2023



CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov

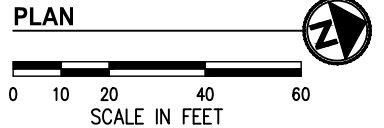
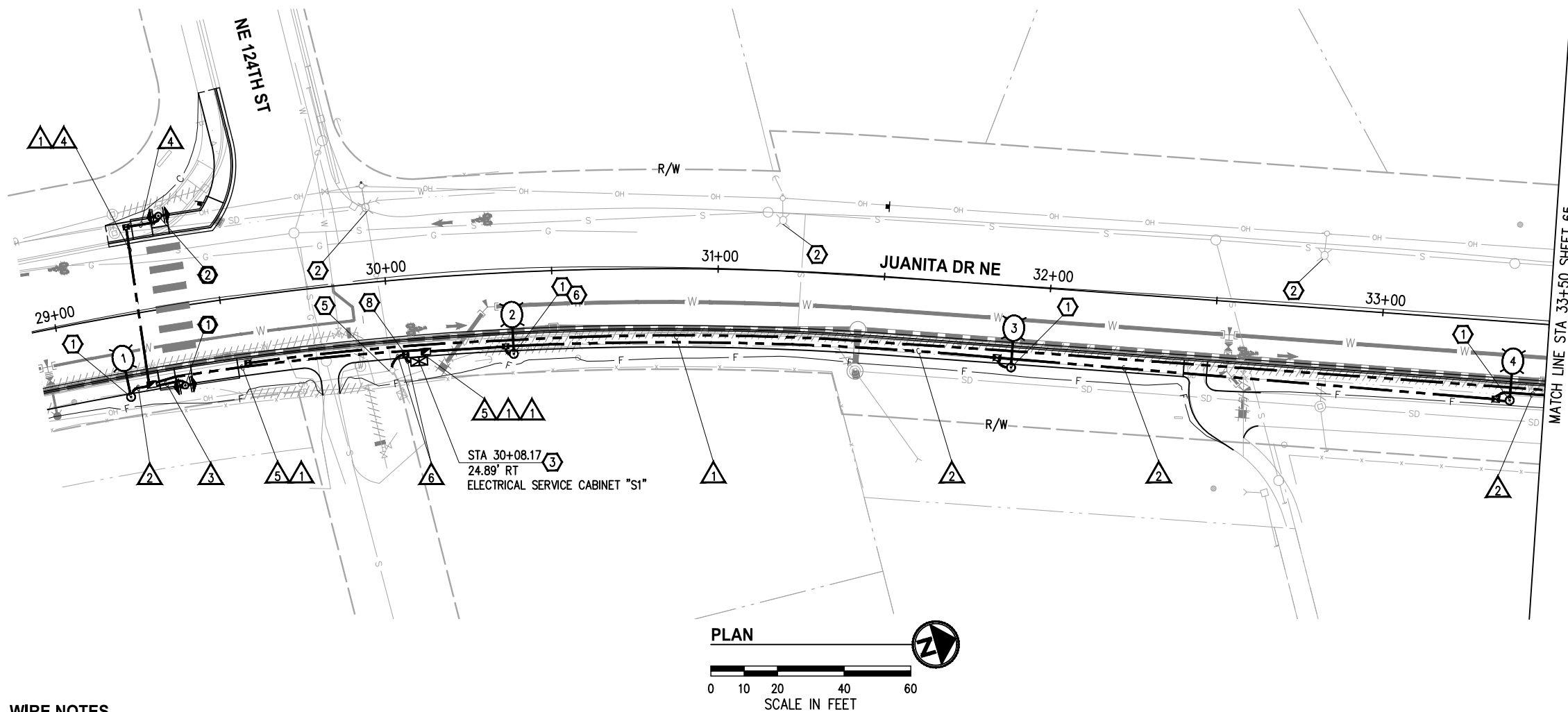
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

PILE SCHEDULE  
**SOLDIER PILE WALL**

REFERENCE SHEET NO.
SHEET 63 OF 161 SHEETS

September 16, 2023 - 7:45 PM - MALLORY MITCHELL - K:\PROJECTS\KIRKLAND - KIPROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\ILL01.DWG - Layout Name: ILL (02) STA 29+00 TO STA 33+50



- ### GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
  - THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
  - NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
  - UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
  - ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
  - CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
  - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
  - CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
  - FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
  - FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
  - EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

### WIRE NOTES

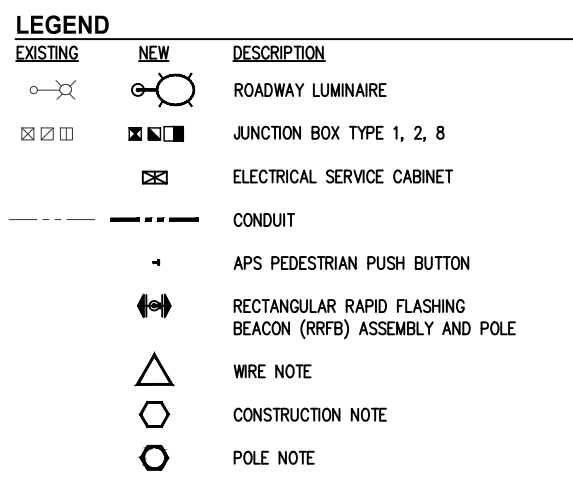
#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

- ### NOTES:
- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
  - ALL CONDUIT SHALL BE RIGID PVC SCH 80.

- ### RRFB POLE NOTES
- CONSTRUCT RRFB POLE FOUNDATION PER RRFB SCHEDULE, THIS SHEET. FURNISH AND INSTALL RRFB POLE BASE, POLE, SIGNS, RRFB LIGHT BARS, AND APS STYLE PEDESTRIAN PUSH BUTTON PER DETAIL, SHEET 72. CONFIRM FOUNDATION LOCATION WITH THE ENGINEER PRIOR TO EXCAVATION. APS PUSH BUTTON CONTROL FACE SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED. THE ORIENTATION OF PUSH BUTTON SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION. SEE SPECIAL PROVISIONS.
  - CONSTRUCT RRFB POLE FOUNDATION PER RRFB SCHEDULE, THIS SHEET. FURNISH AND INSTALL RRFB POLE BASE, POLE, SIGNS, RRFB LIGHT BARS, CONTROLLER, AND APS STYLE PEDESTRIAN PUSH BUTTON PER DETAIL, SHEET 72. CONFIRM FOUNDATION LOCATION WITH THE ENGINEER PRIOR TO EXCAVATION. APS PUSH BUTTON CONTROL FACE SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED. THE ORIENTATION OF PUSH BUTTON SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION. SEE SPECIAL PROVISIONS.

### RRFB SCHEDULE

POLE #	STATION	OFFSET	POLE TYPE	FOUNDATION
①	29+36	23.8' RT	FB	WSDOT STD PLAN J-20.11
②	29+36	27.8' LT	FB	WSDOT STD PLAN J-20.11



- ### CONSTRUCTION NOTES
- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
  - EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
  - CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER COK DETAIL CK-TS.11. CONTRACTOR SHALL FURNISH AND INSTALL TINY ELECTRICAL SERVICE CABINET PER COK DETAIL CK-TS.10. VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL SERVICE METER BASE INSTALLATION WITH PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.
  - LOCATION OF EXISTING TRANSFORMER. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT RISER ON POLE PER PSE HANDBOOK. INSTALL WIRING TO TOP OF RISER AND COIL 30'. PROVIDE 20' OF SPARE 3" CONDUIT FOR POWER COMPANY USE. COORDINATE FEEDER WIRE TERMINATION WITH PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.
  - CONTRACTOR TO INSTALL HAND HOLE WITH FARGO DISCONNECT AS CLOSE TO CABINET AS POSSIBLE. COORDINATE WITH CITY OF KIRKLAND ENGINEER.

### LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
1	29+19	24.5' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
2	30+37	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
3	31+90	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
4	33+40	23.6' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



**KPG PSOMAS**  
 Tacoma  
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 Tacoma, WA 98402 253.627.0720  
 Seattle | Wenatchee | KPG.com

**100% REVIEW SUBMITTAL**

**CITY OF KIRKLAND WASHINGTON**

CITY OF KIRKLAND  
 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

FUNDING NO. 19065

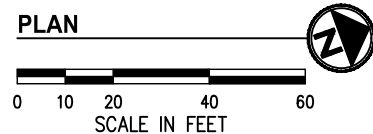
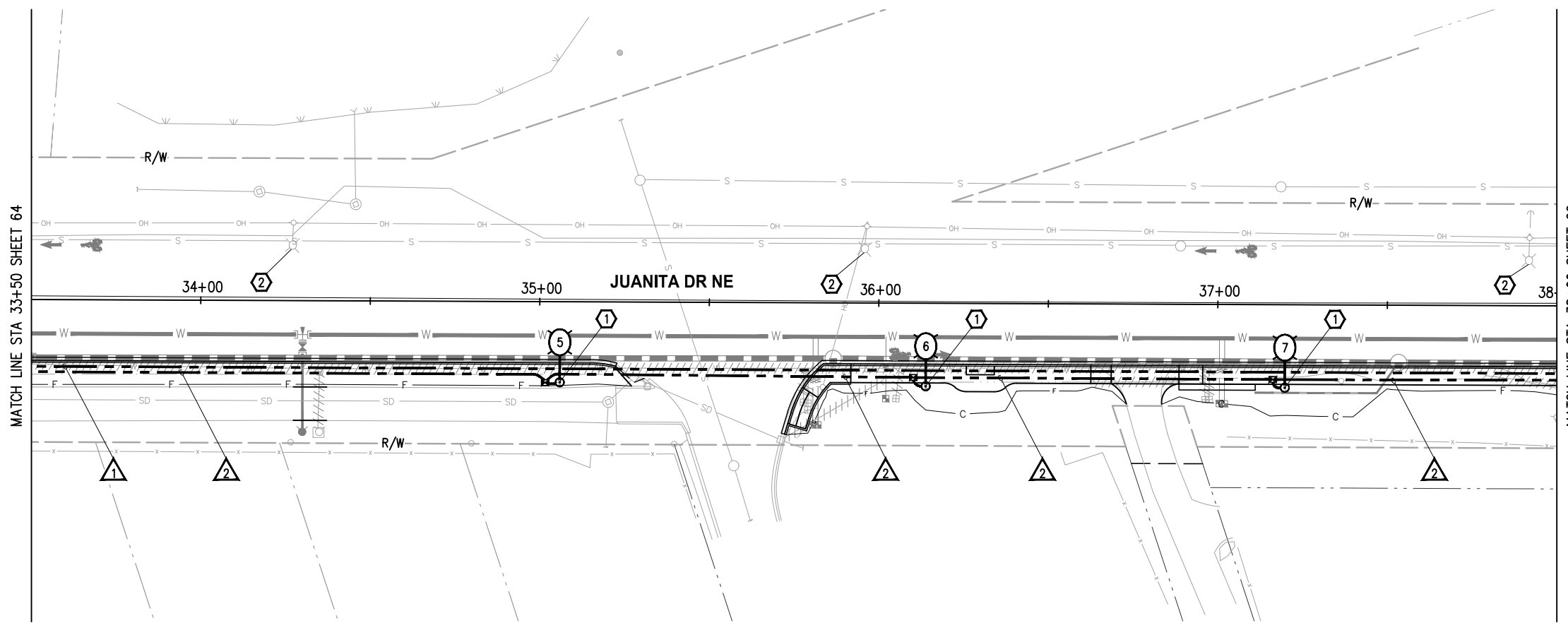
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 29+00 TO STA 33+50  
**ILLUMINATION PLAN**

REFERENCE SHEET NO.  
 SHEET 64 OF 161 SHEETS



September 16, 2023 - 7:45 PM - MALLORY.MITCHELL - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\ILL01.DWG - Layout Name: ILL (03) STA 33+50 TO STA 38+00



**WIRE NOTES**

▲	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

**NOTES:**

- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
- ALL CONDUIT SHALL BE RIGID PVC SCH 80.

**LUMINAIRE SCHEDULE**

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
5	35+06	23.8' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
6	36+14	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
7	37+20	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	

**LEGEND**

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		JUNCTION BOX TYPE 1, 2, 8
		ELECTRICAL SERVICE CABINET
		CONDUIT
		APS PEDESTRIAN PUSH BUTTON
		RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
		WIRE NOTE
		CONSTRUCTION NOTE
		POLE NOTE

**GENERAL NOTES**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
- THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
- NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
- UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMP OR ADA CURB RAMP LANDINGS.
- CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
- CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
- FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
- FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
- EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

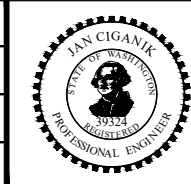
**CONSTRUCTION NOTES**

- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
- EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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**CITY OF KIRKLAND WASHINGTON**

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FUNDING NO. 19065

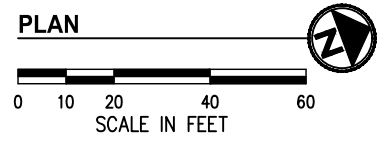
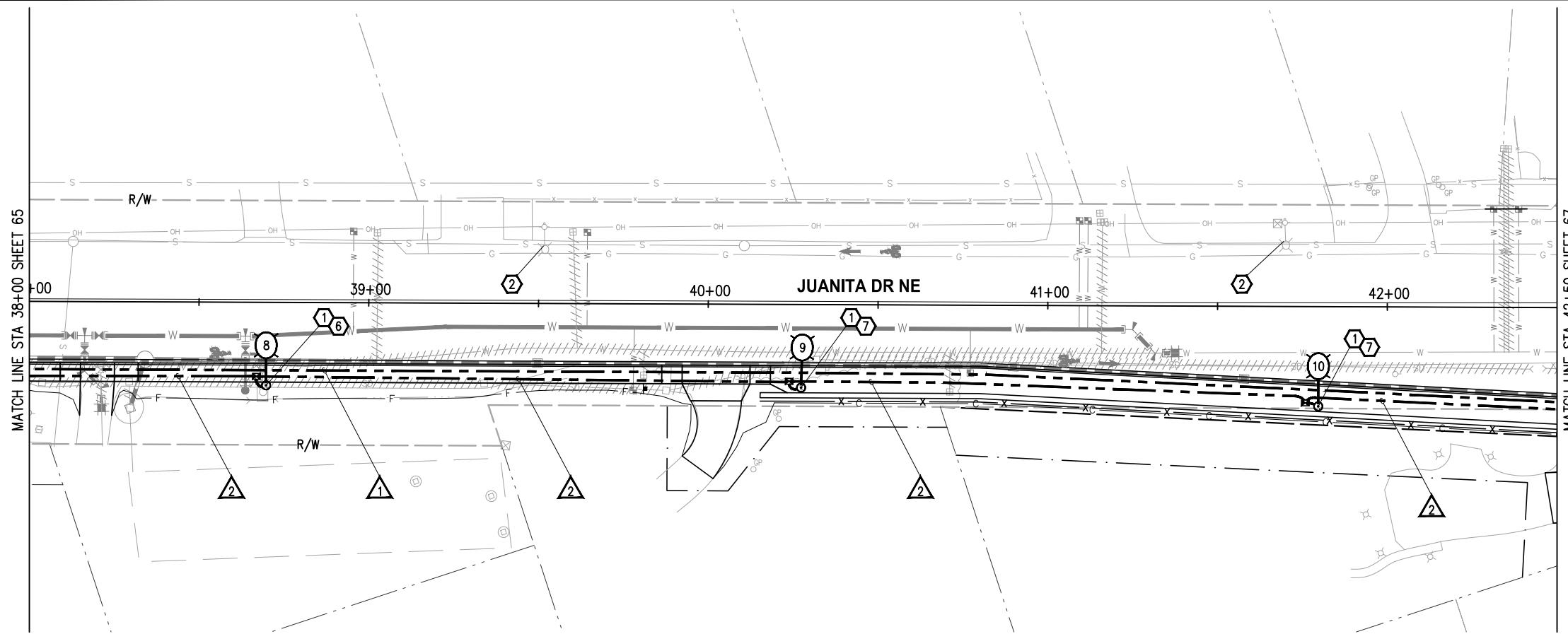
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 38+00

**ILLUMINATION PLAN**

REFERENCE SHEET NO.  
SHEET 65 OF 161 SHEETS

September 16, 2023 - 7:46 PM - MALLORY.MITCHELL - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\ILL01.DWG - Layout Name: ILL (04) STA 38+00 TO STA 42+50



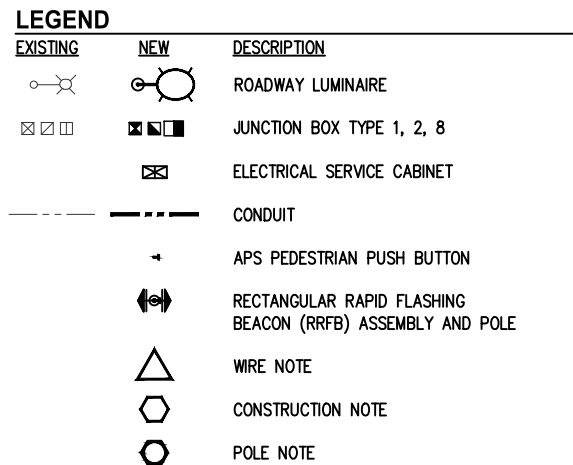
- ### GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
  - THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
  - NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
  - UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
  - ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMP OR ADA CURB RAMP LANDINGS.
  - CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
  - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
  - CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
  - FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
  - FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
  - EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

### WIRE NOTES

▲	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

- ### NOTES:
- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
  - ALL CONDUIT SHALL BE RIGID PVC SCH 80.

- ### CONSTRUCTION NOTES
- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
  - EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
  - EXISTING UTILITY TO BE ABANDONED. CUT AND CAP PIPE AFTER SERVICE IS DISCONNECTED TO ALLOW FOR LUMINAIRE FOUNDATION INSTALLATION.
  - INSTALL LUMINAIRE FOUNDATION CENTERED BETWEEN SOLDIER PILE FOUNDATIONS.



### LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
8	38+70	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
9	40+27	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	HAND HOLE TO FACE ROADWAY
10	41+80	29.4' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	HAND HOLE TO FACE ROADWAY

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

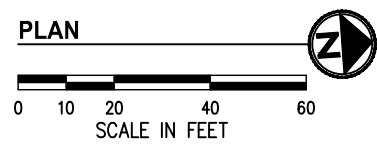
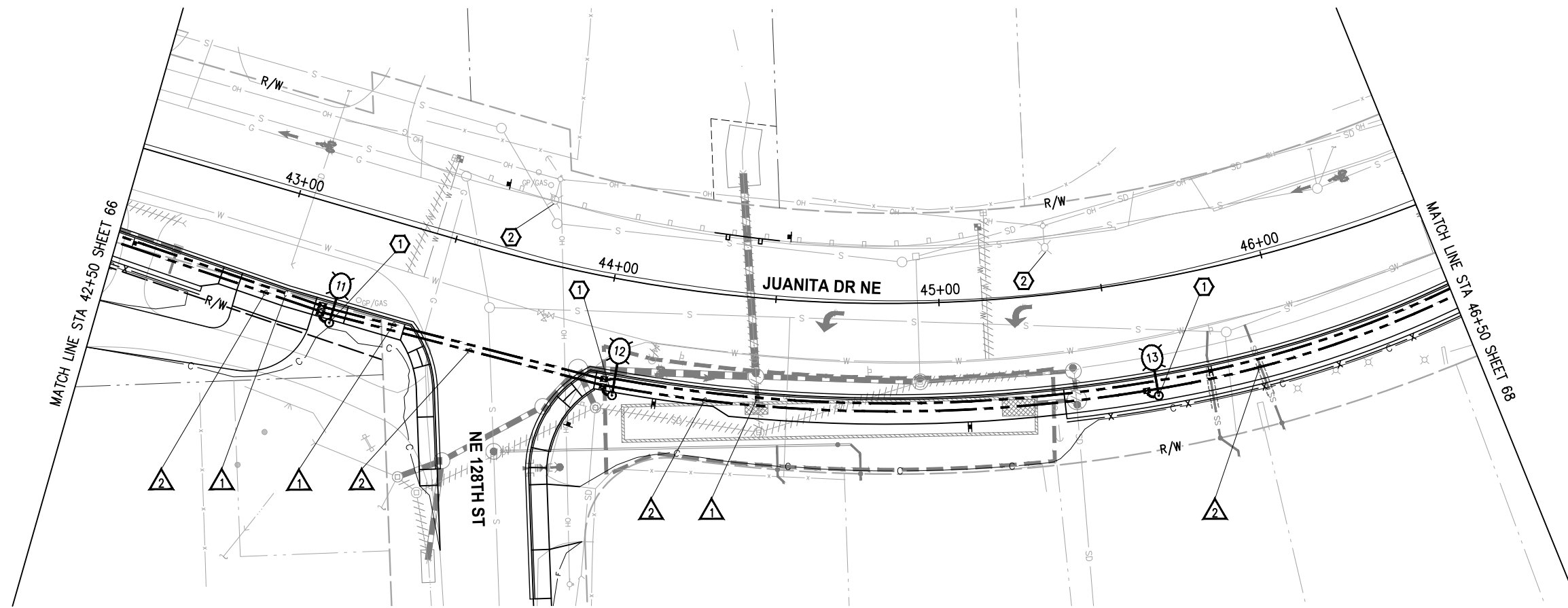
STA 38+00 TO STA 42+50

**ILLUMINATION PLAN**

REFERENCE SHEET NO.

SHEET 66
OF 161
SHEETS

September 16, 2023 - 7:46 PM - MALLORY MITCHELL - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\ILL01.DWG - Layout Name: ILL (05) STA 42+50 TO STA 46+50



- ### GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
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  - FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
  - FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
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### WIRE NOTES

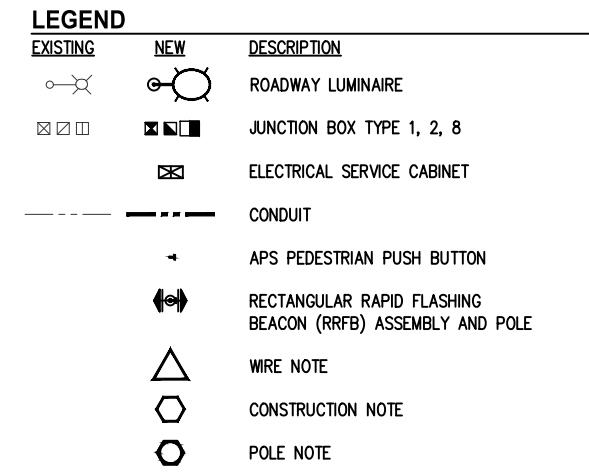
#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

- ### NOTES:
- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
  - ALL CONDUIT SHALL BE RIGID PVC SCH 80.

- ### CONSTRUCTION NOTES
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  - EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.

### LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
11	43+20	35.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
12	44+05	35.6' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	10'	35'	FIXED	5	TYPE A FOUNDATION PER WSDOT J-28.30	
13	45+62	35.5' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE A FOUNDATION PER WSDOT J-28.30	HAND HOLE TO FACE ROADWAY



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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**CITY OF KIRKLAND WASHINGTON**

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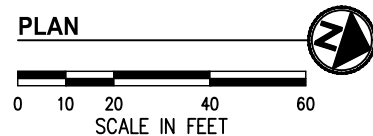
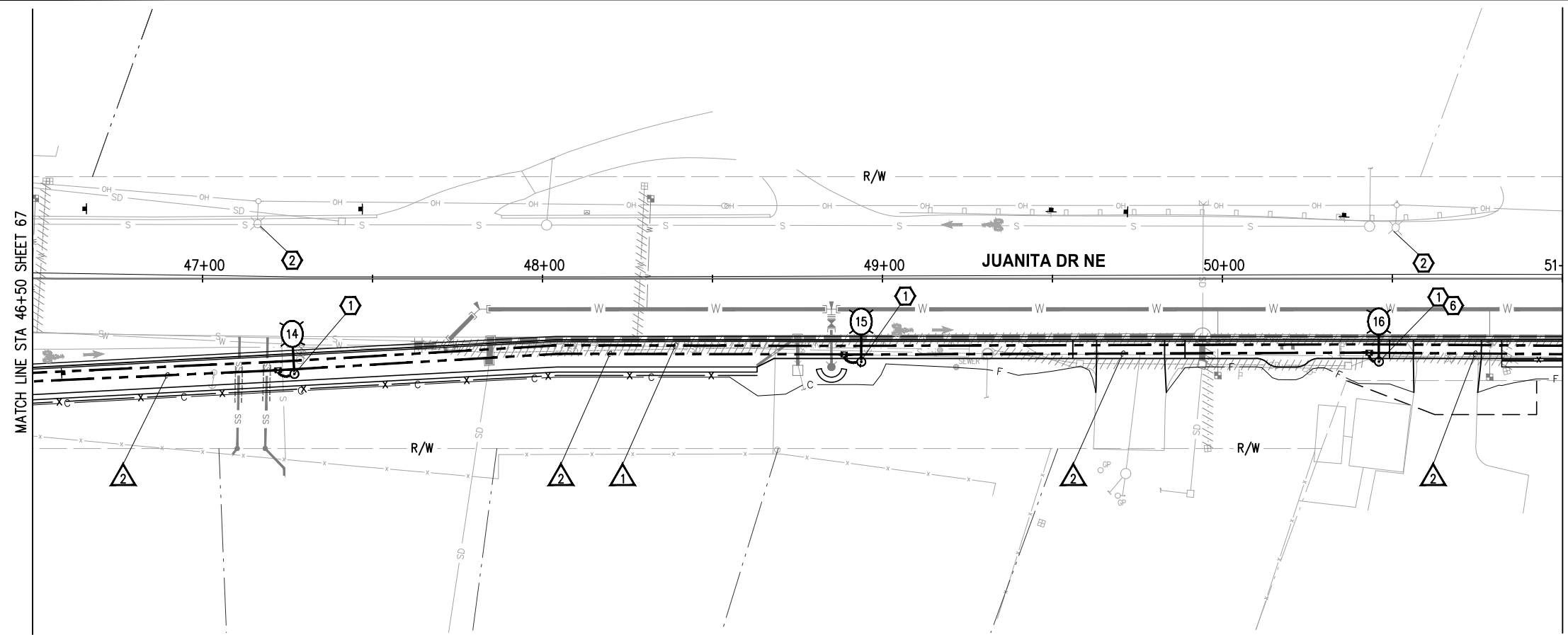
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 42+50 TO STA 46+50  
**ILLUMINATION PLAN**

REFERENCE SHEET NO.
SHEET 67 OF 161 SHEETS

September 16, 2023 - 7:47 PM - MALLORY - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\ILL02.DWG - Layout Name: ILL (01) STA 46+50 TO STA 51+00



**GENERAL NOTES**

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
2. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
3. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
4. UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
5. ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMP OR ADA CURB RAMP LANDINGS.
6. CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
8. CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
9. FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
10. FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
11. EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

**CONSTRUCTION NOTES**

- ① CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
- ② EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
- ⑥ EXISTING UTILITY TO BE ABANDONED. CUT AND CAP PIPE AFTER SERVICE IS DISCONNECTED TO ALLOW FOR LUMINAIRE FOUNDATION INSTALLATION.

**WIRE NOTES**

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

**NOTES:**

1. ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
2. ALL CONDUIT SHALL BE RIGID PVC SCH 80.

**LEGEND**

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		JUNCTION BOX TYPE 1, 2, 8
		ELECTRICAL SERVICE CABINET
		CONDUIT
		APS PEDESTRIAN PUSH BUTTON
		RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
		WIRE NOTE
		CONSTRUCTION NOTE
		POLE NOTE

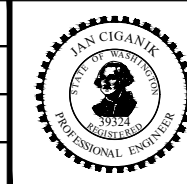
**LUMINAIRE SCHEDULE**

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
14	47+27	28.1' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	HAND HOLE TO FACE ROADWAY
15	48+94	24.5' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
16	50+46	24.5' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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**CITY OF KIRKLAND WASHINGTON**

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FUNDING NO. 19065

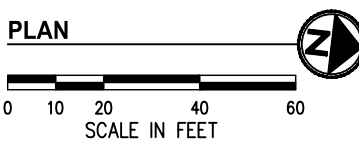
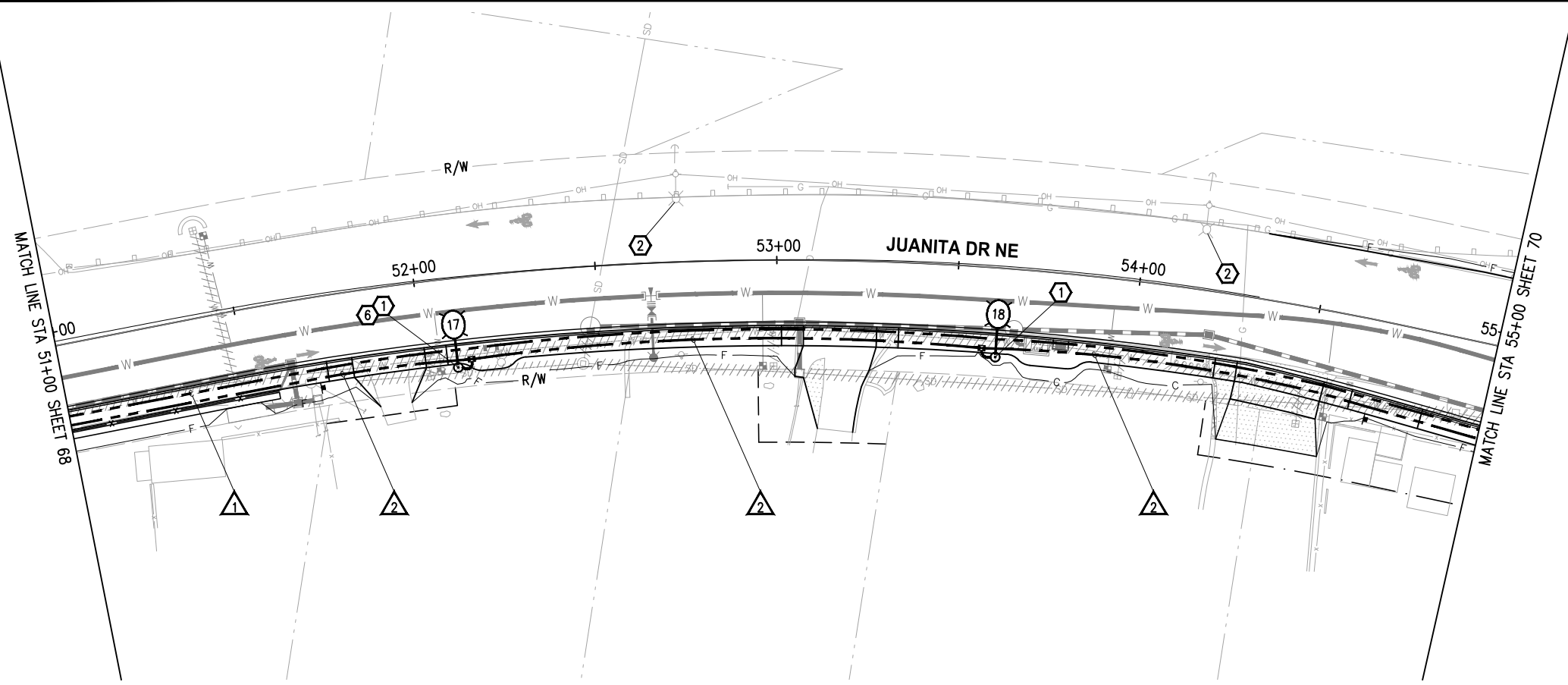
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 46+50 TO STA 51+00

**ILLUMINATION PLAN**

REFERENCE SHEET NO.  
 SHEET 68 OF 161 SHEETS

September 16, 2023 - 7:47 PM - MALLORY - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\ILL02.DWG - Layout Name: ILL (02) STA 51+00 TO STA 55+00



- ### GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
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  - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
  - CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
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### WIRE NOTES

▲	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
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- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
  - ALL CONDUIT SHALL BE RIGID PVC SCH 80.

- ### CONSTRUCTION NOTES
- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
  - EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
  - EXISTING UTILITY TO BE ABANDONED. CUT AND CAP PIPE AFTER SERVICE IS DISCONNECTED TO ALLOW FOR LUMINAIRE FOUNDATION INSTALLATION.

### LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		JUNCTION BOX TYPE 1, 2, 8
		ELECTRICAL SERVICE CABINET
		CONDUIT
		APS PEDESTRIAN PUSH BUTTON
		RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
		WIRE NOTE
		CONSTRUCTION NOTE
		POLE NOTE

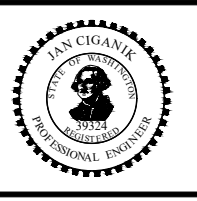
### LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
17	52+10	24.5' RT	125W, 3K, 60LED, 970mA, IV, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
18	53+62	24.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

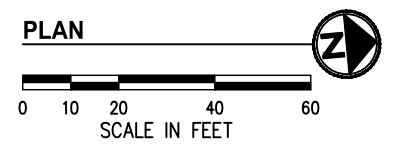
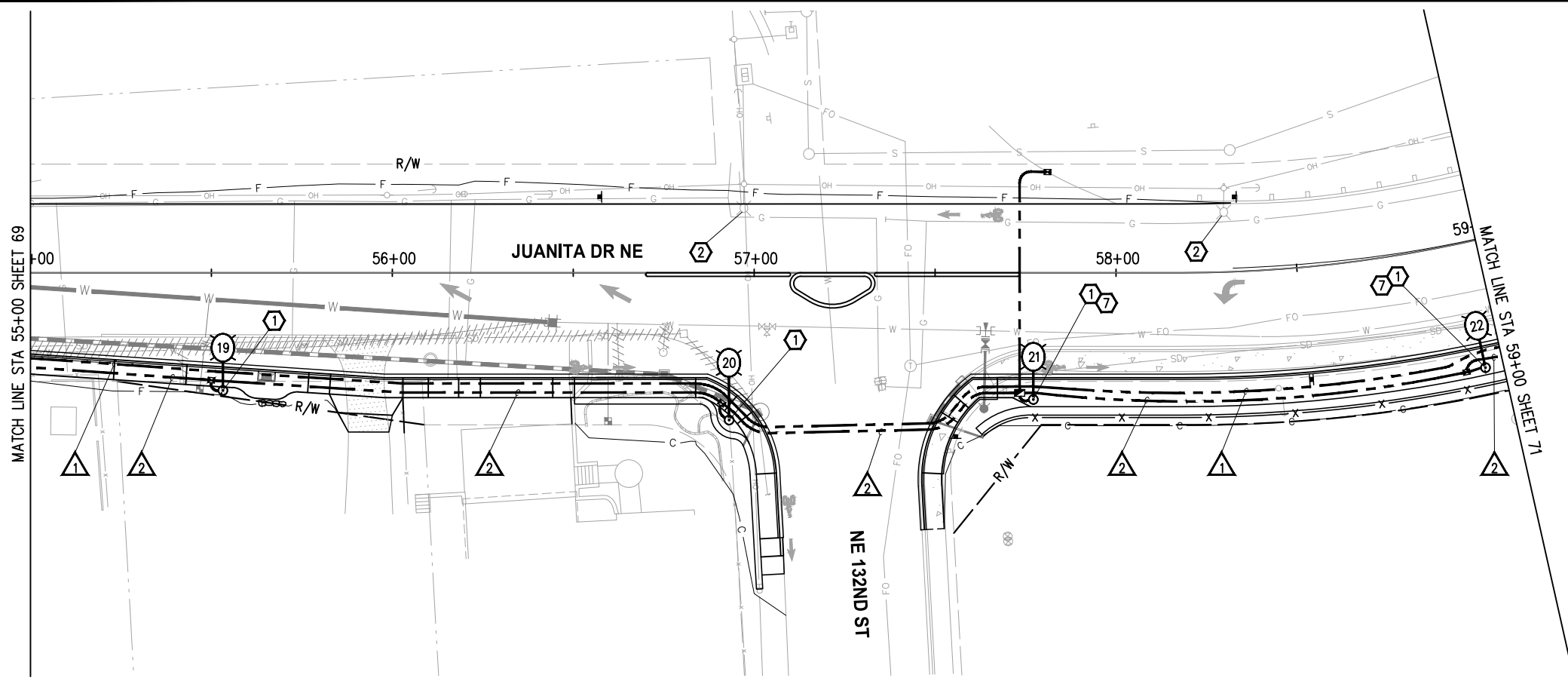
STA 51+00 TO STA 55+00

**ILLUMINATION PLAN**

REFERENCE SHEET NO.

SHEET 69 OF 161 SHEETS

September 16, 2023 - 7:48 PM - MALLORY - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\ILL02.DWG - Layout Name: ILL (03) STA 55+00 TO STA 59+00



- ### GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
  - THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
  - NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
  - UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
  - ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
  - CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
  - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
  - CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
  - FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
  - FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
  - EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

### WIRE NOTES

▲	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

- ### NOTES:
- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
  - ALL CONDUIT SHALL BE RIGID PVC SCH 80.

- ### CONSTRUCTION NOTES
- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
  - EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
  - INSTALL LUMINAIRE FOUNDATION CENTERED BETWEEN SOLDIER PILE FOUNDATIONS.

### LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		JUNCTION BOX TYPE 1, 2, 8
		ELECTRICAL SERVICE CABINET
		CONDUIT
		APS PEDESTRIAN PUSH BUTTON
		RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
		WIRE NOTE
		CONSTRUCTION NOTE
		POLE NOTE

### LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
19	55+53	32.5' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	
20	56+93	40.7' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	12'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30	HAND HOLE TO FACE ROADWAY
21	57+77	35.0' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30, EXCEPT FOUNDATION DEPTH SHALL BE 9'	HAND HOLE TO FACE ROADWAY
22	58+95	35.0' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30, EXCEPT FOUNDATION DEPTH SHALL BE 9'	HAND HOLE TO FACE ROADWAY

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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FUNDING NO. 19065

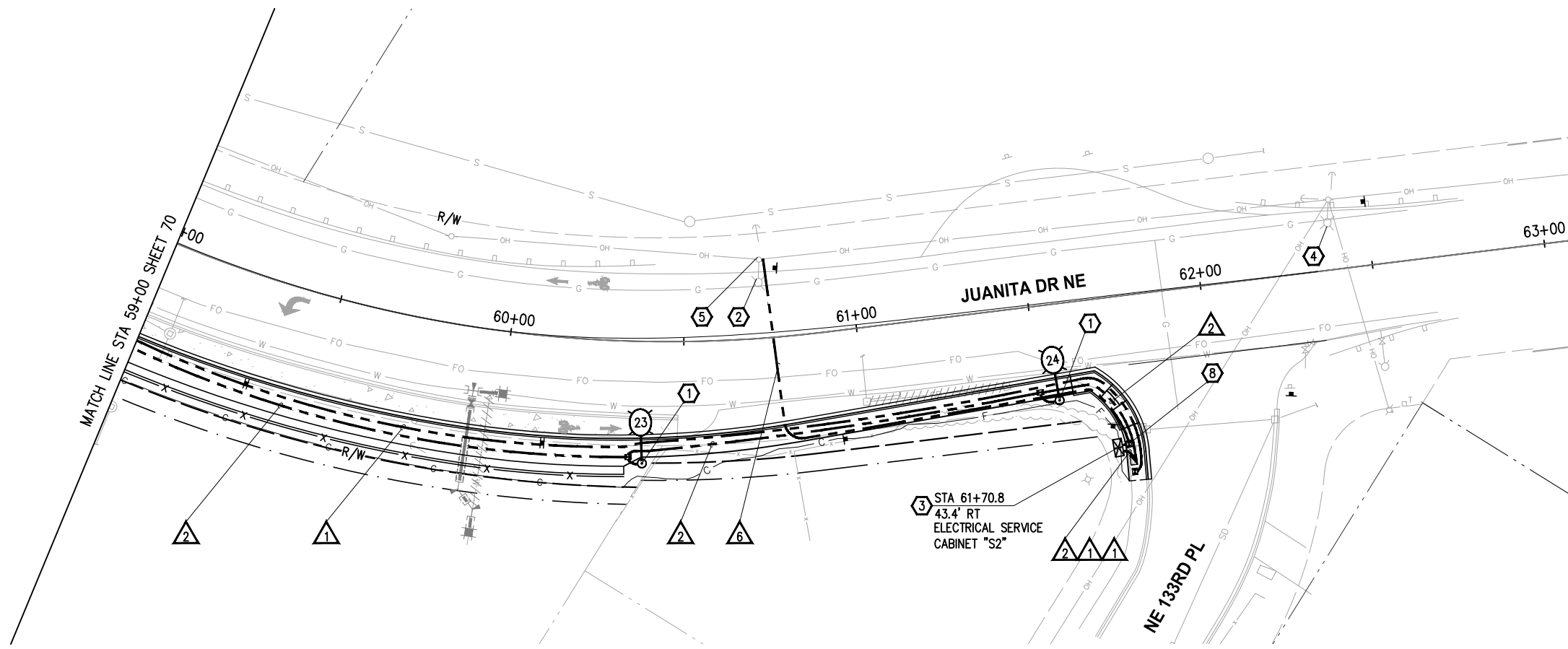
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 55+00 TO STA 59+00

**ILLUMINATION PLAN**

REFERENCE SHEET NO. SHEET 70 OF 161 SHEETS

September 16, 2023 - 7:48 PM - MALLORY - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\ILL02.DWG - Layout Name: ILL (04) STA 59+00 TO STA 63+00



**GENERAL NOTES**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS, SPECIAL PROVISIONS, AND THESE PLANS.
- THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY. FINAL LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
- NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
- UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALK SHALL HAVE SKID RESISTANT LIDS AND FRAMES. JUNCTION BOXES AND VAULTS SHALL NOT BE PLACED IN ADA CURB RAMP OR ADA CURB RAMP LANDINGS.
- CONTRACTOR SHALL CONTACT CITY OF KIRKLAND ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND OVERHEAD PRIMARY POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH PUGET SOUND ENERGY.
- CONTRACTOR SHALL COORDINATE WITH THE PUGET SOUND ENERGY REPRESENTATIVE REGARDING THE ELECTRICAL SERVICE CONNECTION AND EXISTING PSE POLES.
- FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 9-16.
- FOR ILLUMINATION ONE LINE DIAGRAMS, SEE SHEET 73.
- EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

**CONSTRUCTION NOTES**

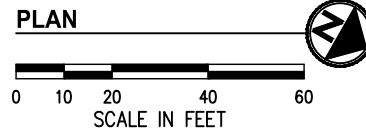
- CONSTRUCT LUMINAIRE POLE FOUNDATION PER LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, LUMINAIRE, AND ALL ASSOCIATED EQUIPMENT, CONDUIT, AND WIRING PER WSDOT STD PLANS J-28.10, J-28.22, J-28.30, J-28.40, J-28.42, J-28.50, AND J-28.70, EXCEPT CONDUIT BETWEEN JUNCTION BOX AND LUMINAIRE FOUNDATION SHALL BE 2" SCH 80 AND WIRING SHALL BE #8. SEE SPECIAL PROVISIONS.
- EXISTING POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS.
- CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER COK DETAIL CK-TS.11. CONTRACTOR SHALL FURNISH AND INSTALL TINY ELECTRICAL SERVICE CABINET PER COK DETAIL CK-TS.10. VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL SERVICE METER BASE INSTALLATION WITH PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- EXISTING POLE MOUNTED LUMINAIRE TO REMAIN.
- LOCATION OF EXISTING TRANSFORMER. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT RISER ON POLE PER PSE HANDBOOK. INSTALL WIRING TO TOP OF RISER AND COIL 30'. PROVIDE 20' OF SPARE 3" CONDUIT FOR POWER COMPANY USE. COORDINATE FEEDER WIRE TERMINATION WITH PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- CONTRACTOR TO INSTALL HAND HOLE WITH FARGO DISCONNECT AS CLOSE TO CABINET AS POSSIBLE. COORDINATE WITH CITY OF KIRKLAND ENGINEER.

**WIRE NOTES**

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	2"	4-#10(RRFB), 1-2CS	
4	2"	2-#10(RRFB), 1-2CS	
5	2"	2-#8(ILL), 2-#10(RRFB)	
6	3"	3-#3/0	FEEDER, NO GROUND

**NOTES:**

- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
- ALL CONDUIT SHALL BE RIGID PVC SCH 80.



**LEGEND**

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		JUNCTION BOX TYPE 1, 2, 8
		ELECTRICAL SERVICE CABINET
		CONDUIT
		APS PEDESTRIAN PUSH BUTTON
		RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY AND POLE
		WIRE NOTE
		CONSTRUCTION NOTE
		POLE NOTE

**LUMINAIRE SCHEDULE**

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	FOUNDATION	COMMENTS
23	60+39	35.2' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30, EXCEPT FOUNDATION DEPTH SHALL BE 9'	
24	61+56	27.8' RT	110W, 3K, 60LED, 900mA, III, B3-U0-G3, 240V	8'	35'	FIXED	5	TYPE B FOUNDATION PER WSDOT J-28.30, EXCEPT FOUNDATION DEPTH SHALL BE 9'	

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	9/2023
DRAWN BY: MM	9/2023



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

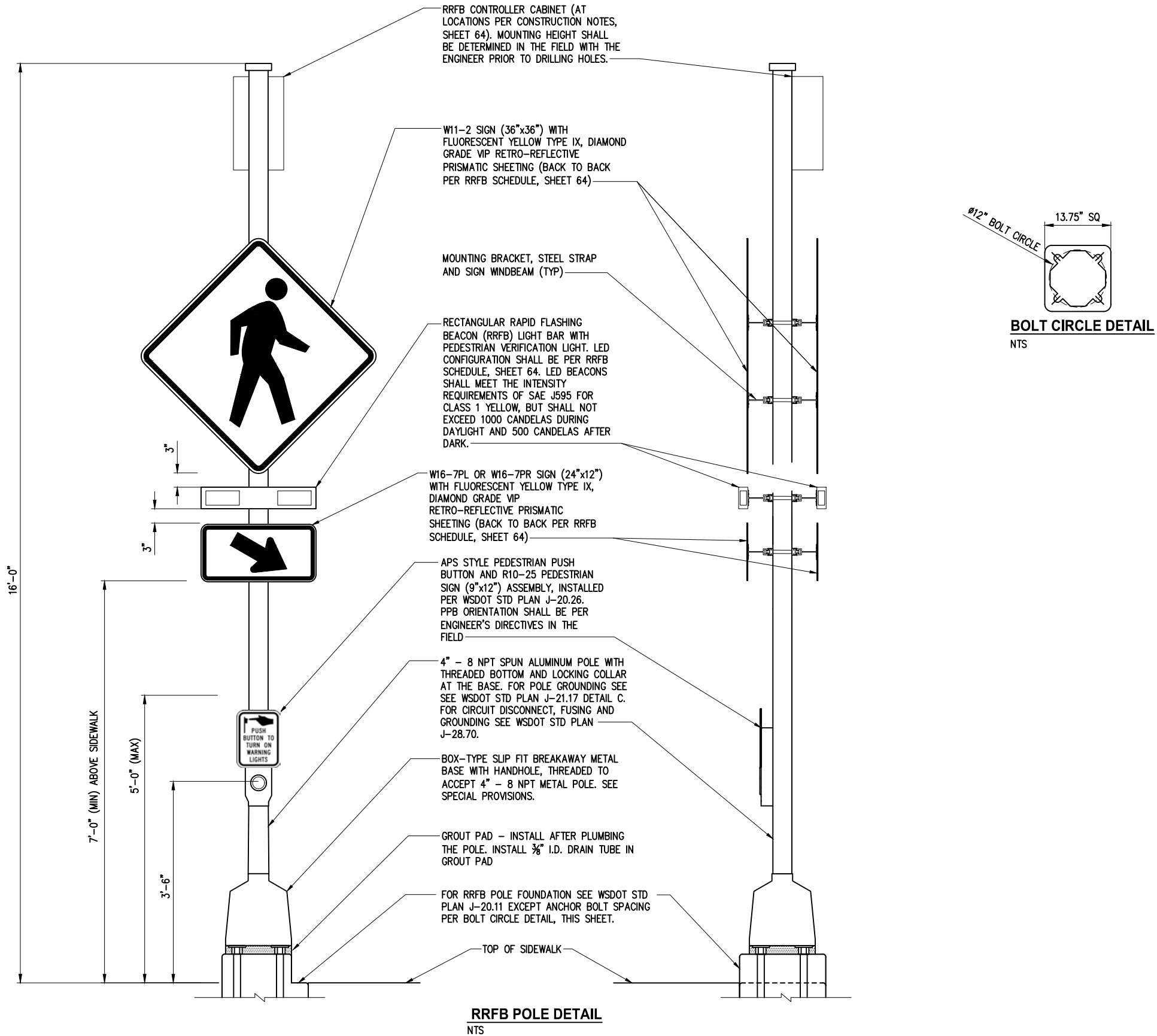
STA 59+00 TO STA 63+00

**ILLUMINATION PLAN**

REFERENCE SHEET NO.

SHEET 71 OF 161 SHEETS

September 16, 2023 - 7:48 PM - MALLORY.MITCHELL - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\ILL\_DET01.DWG - Layout Name: ILL\_DET01



DATE	NO.	REVISION	BY



UPI NO.:  
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HORZ. DATUM:  
WSPCS, N ZONE, NAD 83/11  
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FIELD BOOK(S):  
VERT. DATUM:  
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MM



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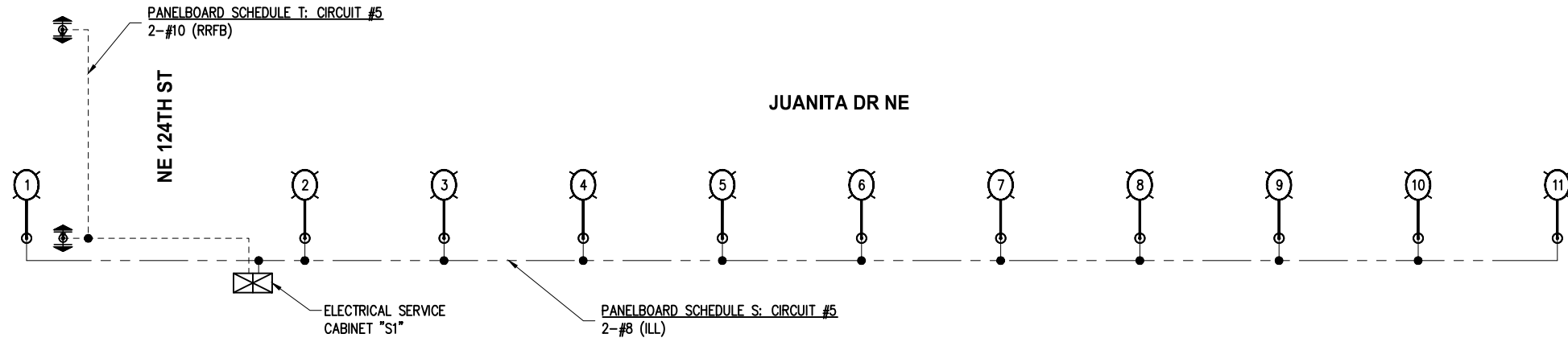
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**ILLUMINATION DETAILS**

REFERENCE SHEET NO.  
SHEET 72 OF 161 SHEETS



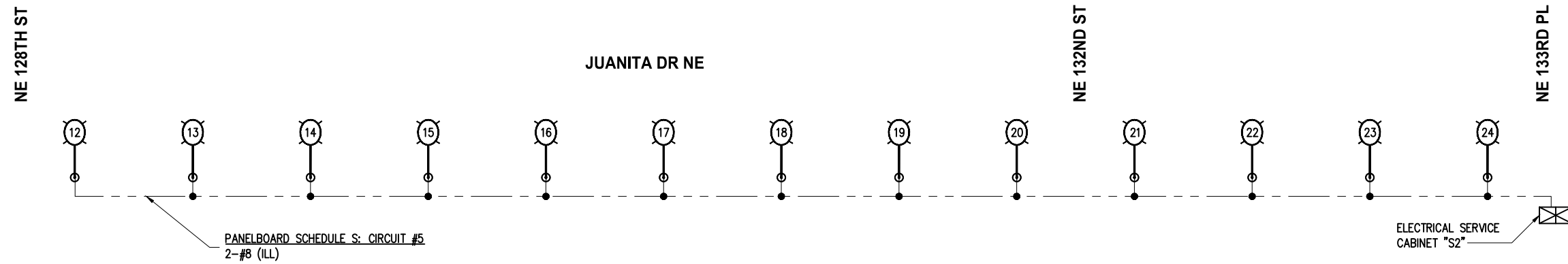
September 16, 2023 - 7:48 PM - MALLORY.MITCHELL - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\ILL\_DET01.DWG - Layout Name: ILL\_DET02



**ONE LINE DIAGRAM**  
NTS

SYMBOL	DESCRIPTION
	LUMINAIRE POLE
	ELECTRICAL SERVICE CABINET
	WIRE SPLICE
	RRFB (RECTANGULAR RAPID FLASHING BEACON)

FOR PANEL SCHEDULES, REFER TO  
C.O.K. STANDARD DETAIL CK-TS.10



**ONE LINE DIAGRAM**  
NTS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MM	DRAWN BY: MM
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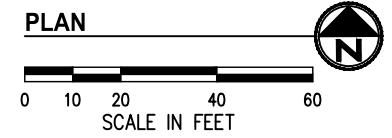
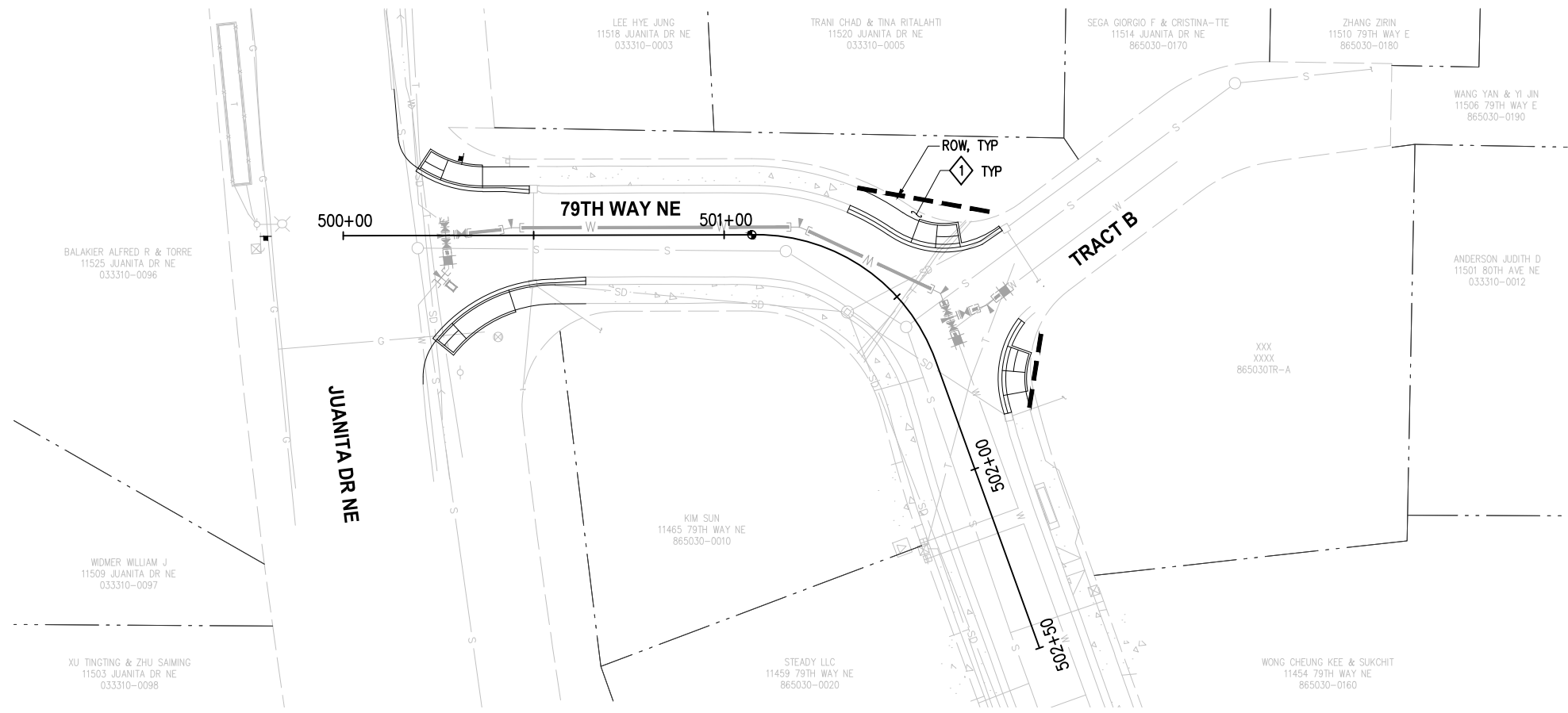
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

**ILLUMINATION DETAILS**

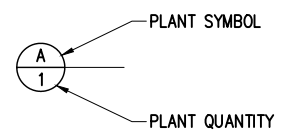
REFERENCE SHEET NO.
SHEET 73 OF 161 SHEETS

September 16, 2023 - 7:49 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\LPN01.DWG - Layout Name: LPN (1) STA 500+00 TO STA 502+50



**CONSTRUCTION NOTES**

1 BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: CS	DRAWN BY: CS
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FUNDING NO. 19065

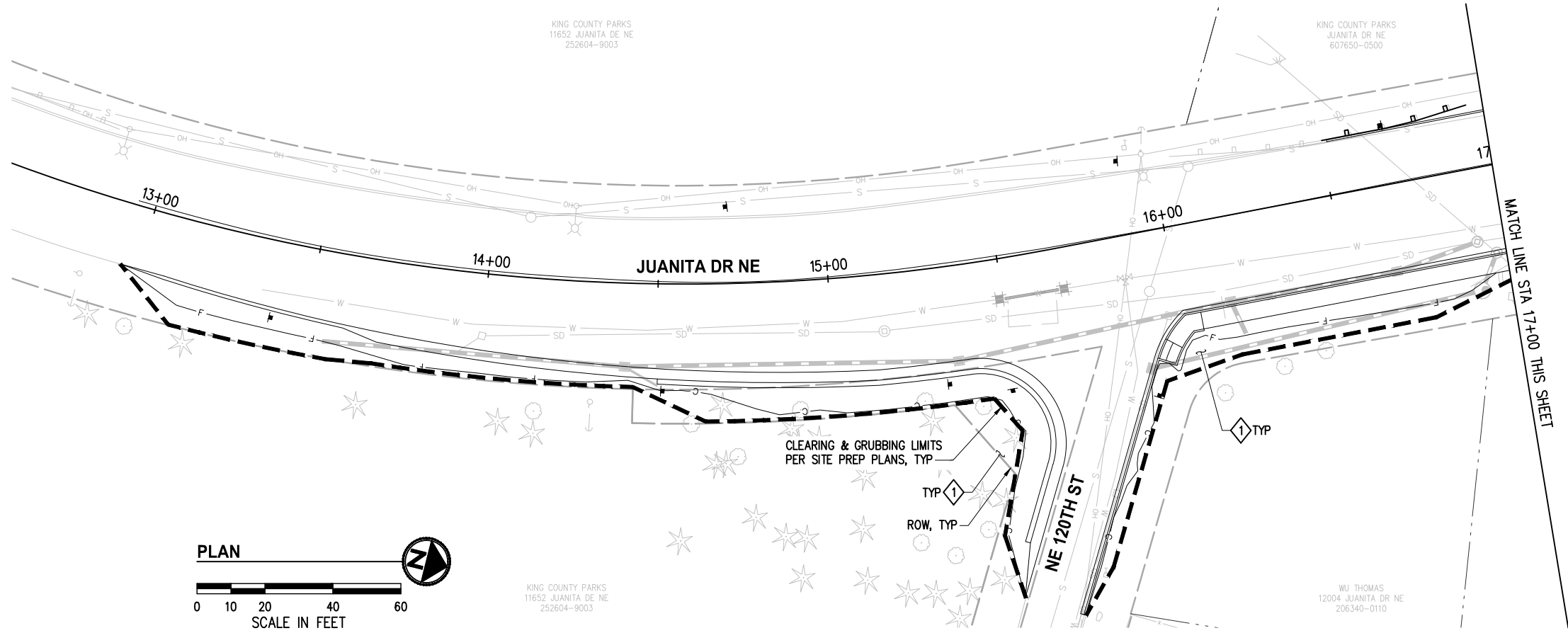
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 500+00 TO STA 502+50

**LANDSCAPE RESTORATION PLAN**

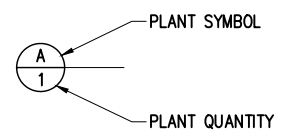
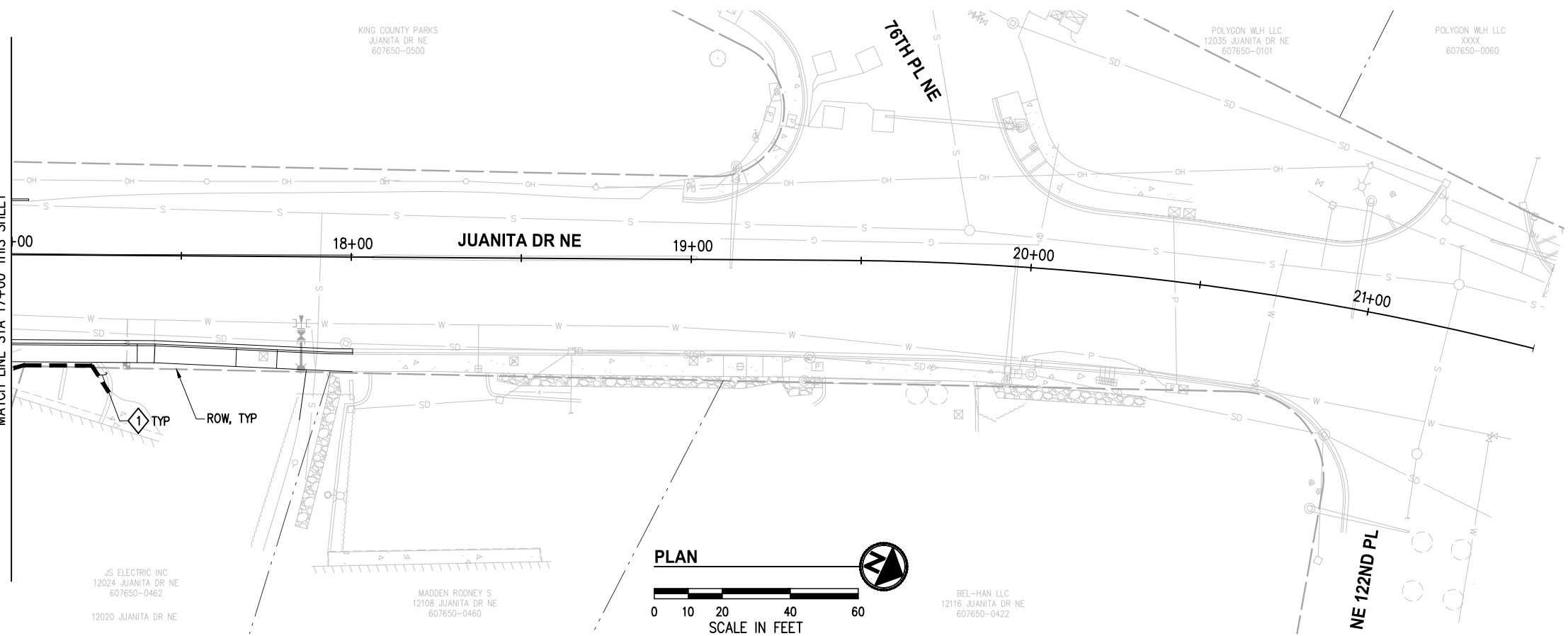
REFERENCE SHEET NO.
SHEET 74 OF 161 SHEETS

September 16, 2023 - 7:50 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN02.DWG - Layout Name: LPN (01) STA 12+50 TO STA 21+50



**CONSTRUCTION NOTES**

1 BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: CS	DRAWN BY: CS
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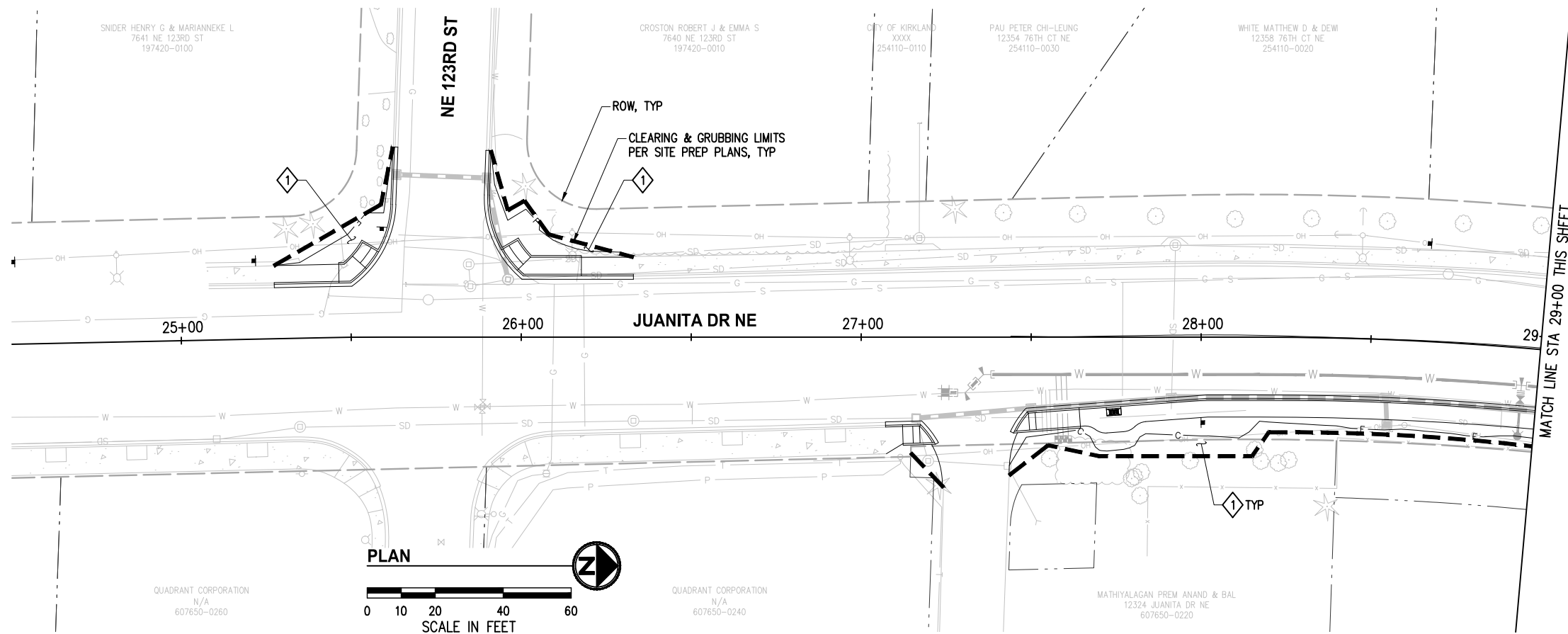


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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 12+50 TO STA 21+50  
**LANDSCAPE RESTORATION PLAN**

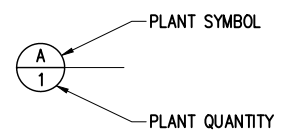
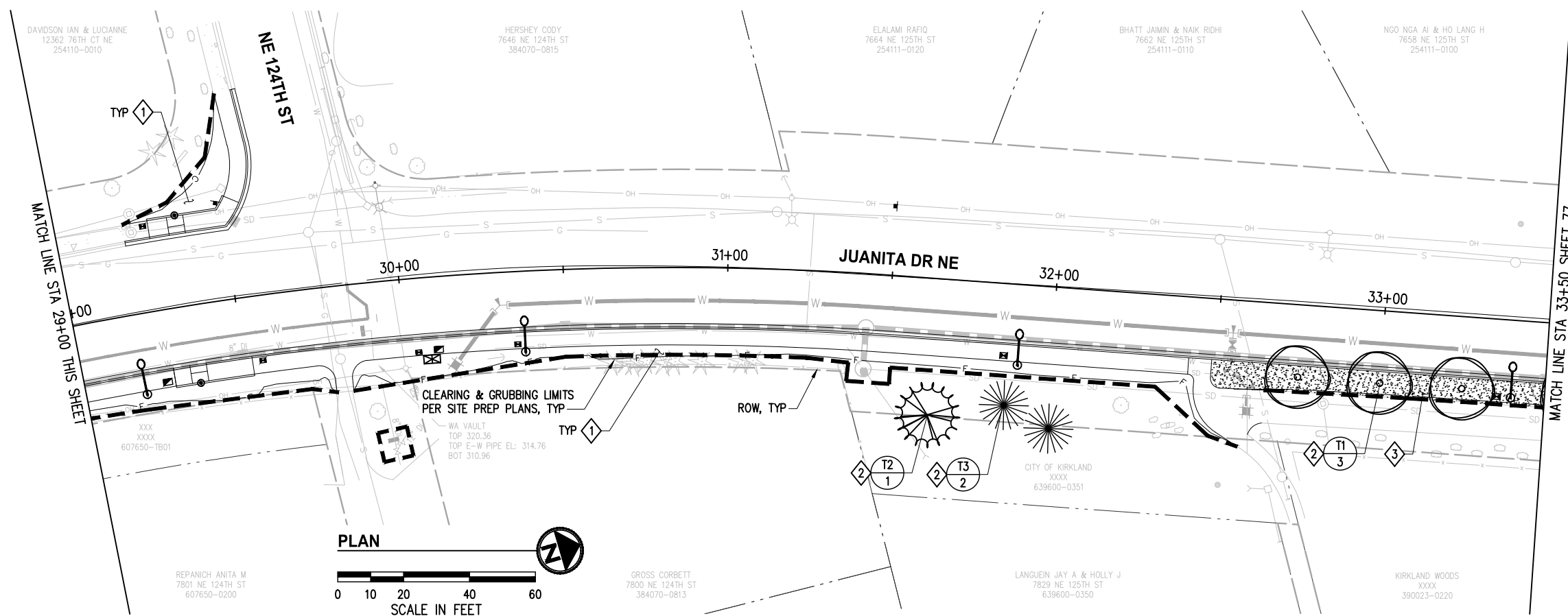
REFERENCE SHEET NO.
SHEET 75 OF 161 SHEETS

September 16, 2023 - 7:51 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN02.DWG - Layout Name: LPN (02) STA 24+50 TO STA 33+50



**CONSTRUCTION NOTES**

- ① BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.
- ② PLANT TREE PER DETAILS, SHEET 81. INSTALL TREE WATERING BAG SYSTEM, ONE EACH PER TREE, TYP.
- ③ SEEDED LAWN INSTALLATION; INSTALL 4" TOPSOIL TYPE A AND HYDROSEED WITH SEEDED LAWN MIX.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: CS	DRAWN BY: CS
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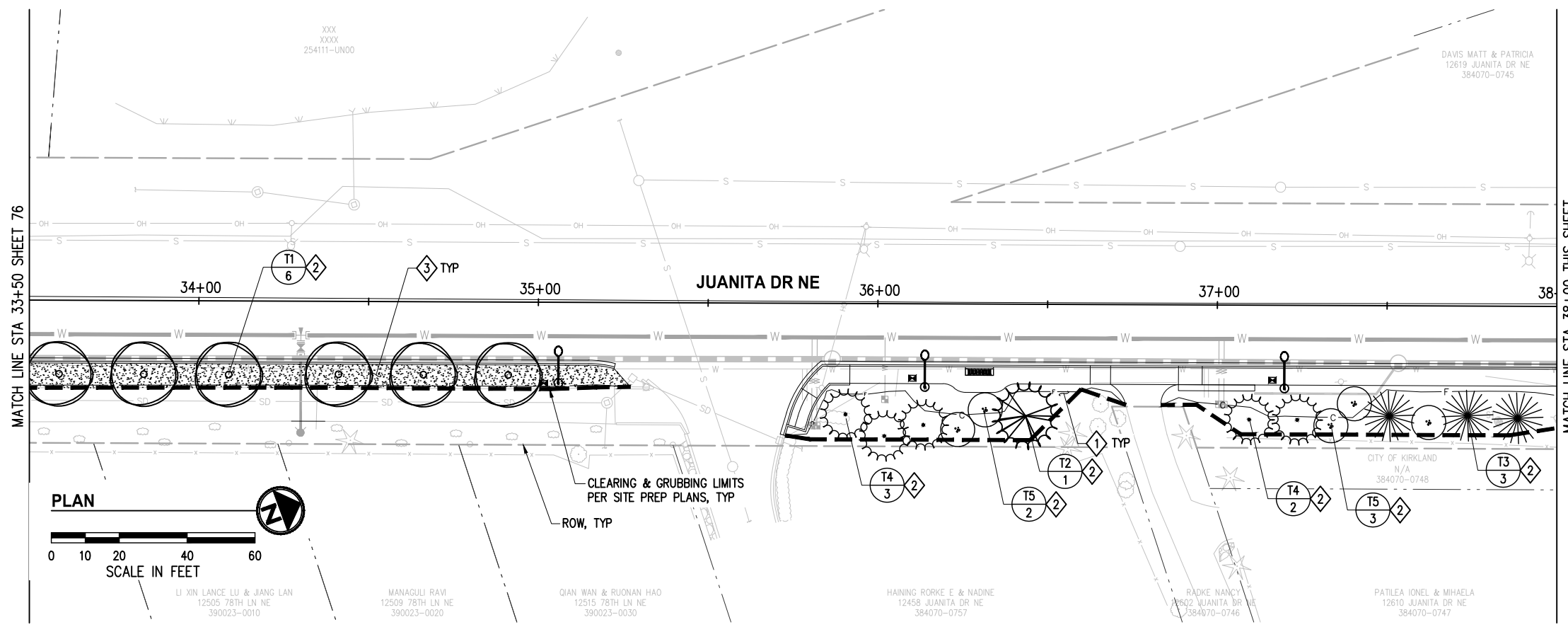
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 24+50 TO STA 33+50

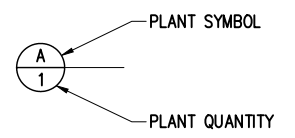
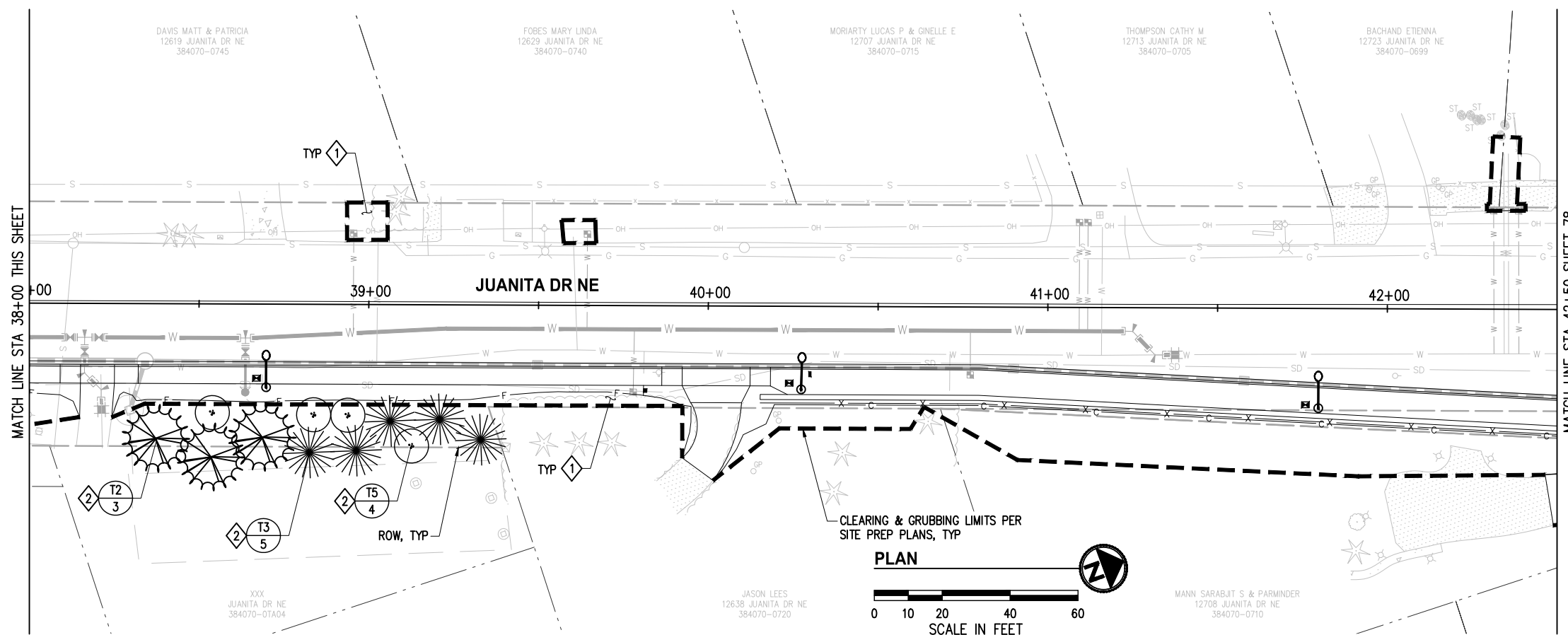
**LANDSCAPE RESTORATION PLAN**

REFERENCE SHEET NO.
SHEET 76 OF 161 SHEETS

September 16, 2023 - 7:51 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN02.DWG - Layout Name: LPN (03) STA 33+50 TO STA 42+50



- CONSTRUCTION NOTES**
- 1 BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.
  - 2 PLANT TREE PER DETAILS, SHEET 81. INSTALL TREE WATERING BAG SYSTEM, ONE EACH PER TREE, TYP.
  - 3 SEEDED LAWN INSTALLATION; INSTALL 4" TOPSOIL TYPE A AND HYDROSEED WITH SEEDED LAWN MIX.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



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9/2023

FED. AID PROJ. NO.:  
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VERT. DATUM: NAVD 88  
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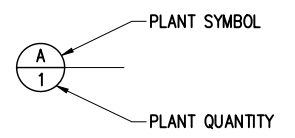
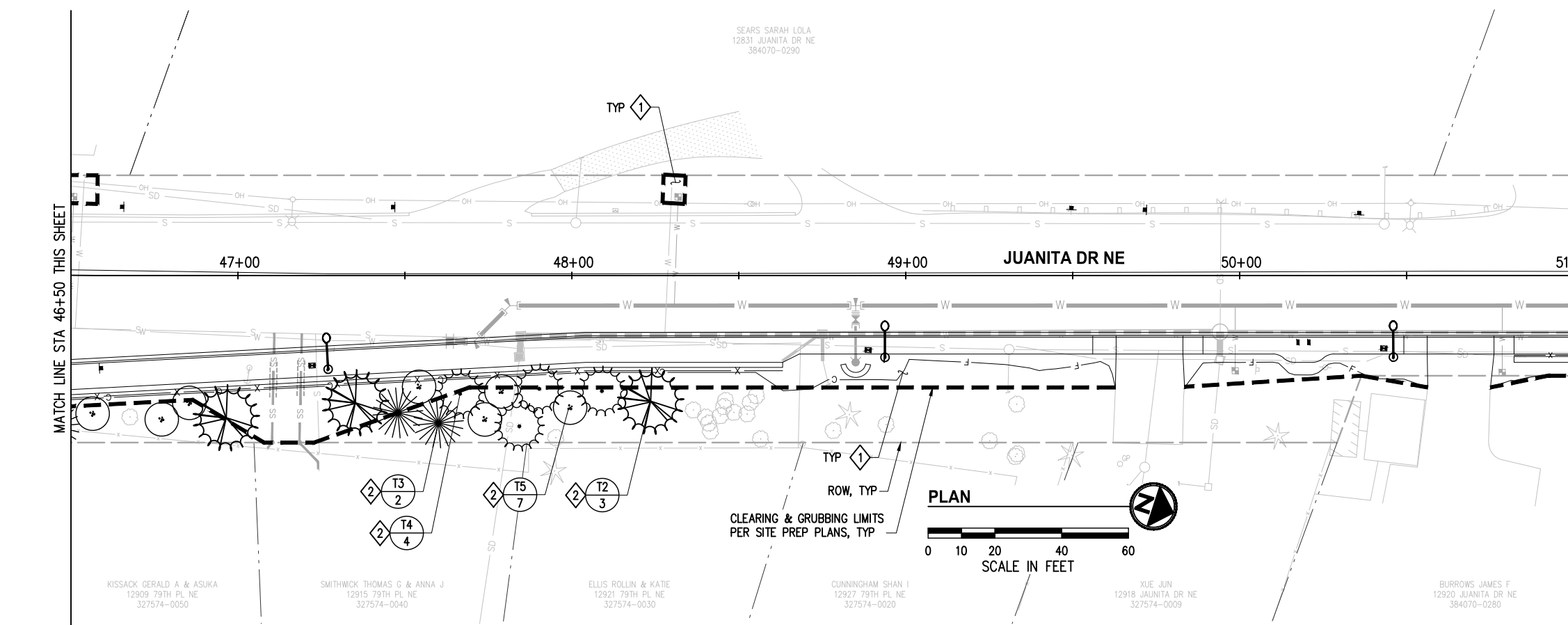
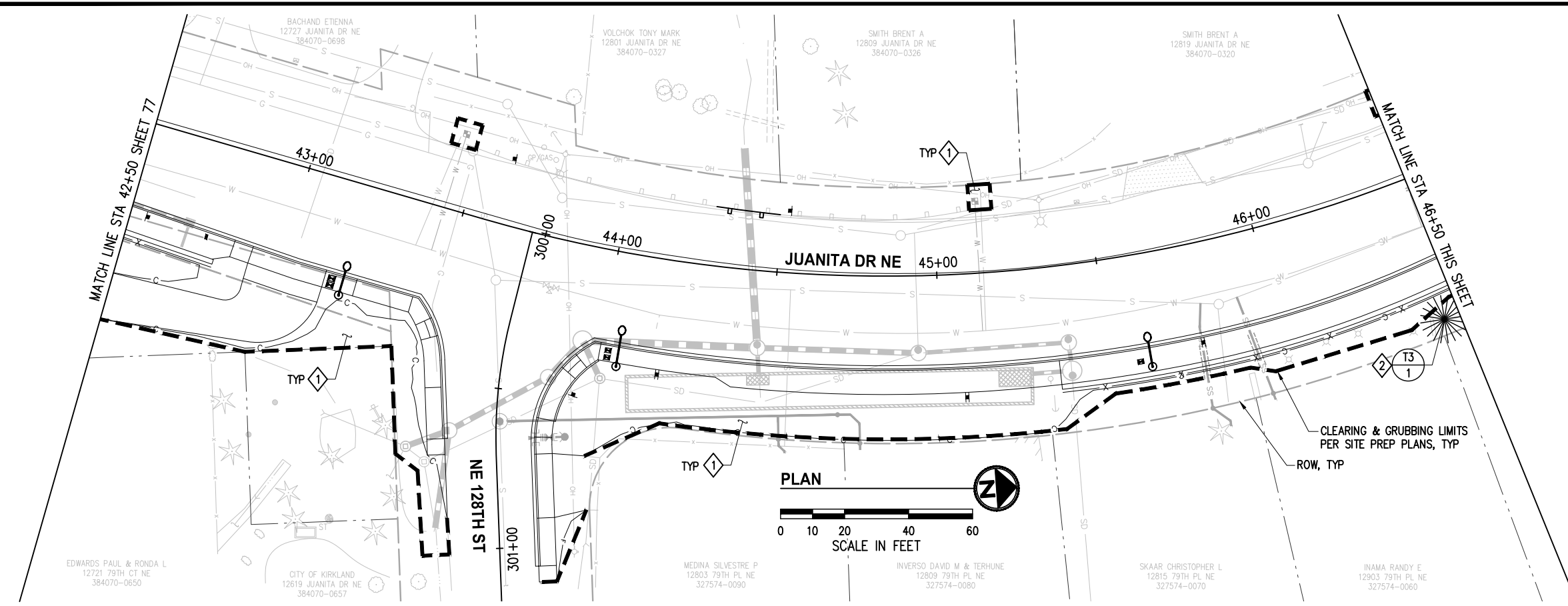
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 33+50 TO STA 42+50  
**LANDSCAPE RESTORATION PLAN**

REFERENCE SHEET NO.  
SHEET 77 OF 161 SHEETS

September 16, 2023 - 7:51 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN02.DWG - Layout Name: LPN (04) STA 42+50 TO STA 51+00

**CONSTRUCTION NOTES**

- ① BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.
- ② PLANT TREE PER DETAILS, SHEET 81. INSTALL TREE WATERING BAG SYSTEM, ONE EACH PER TREE, TYP.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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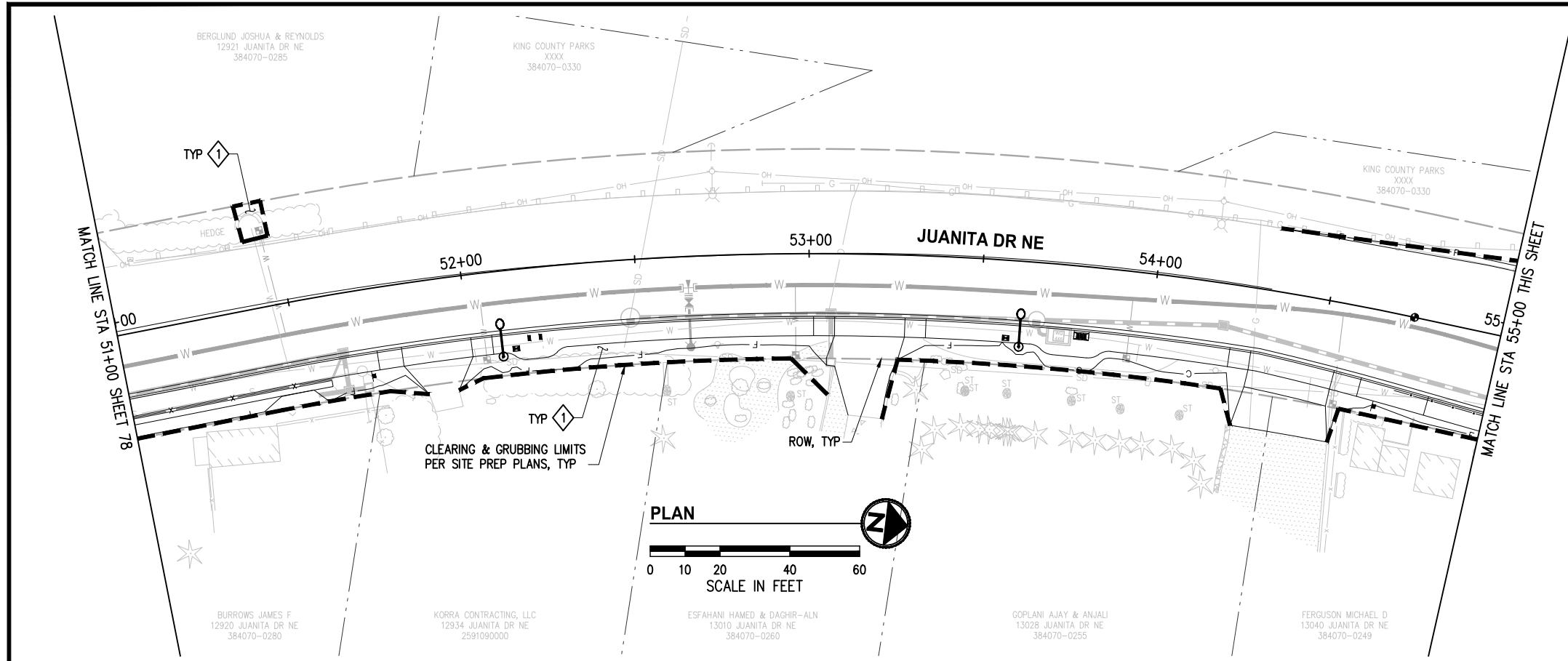
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 42+50 TO STA 51+00

**LANDSCAPE RESTORATION PLAN**

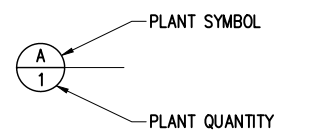
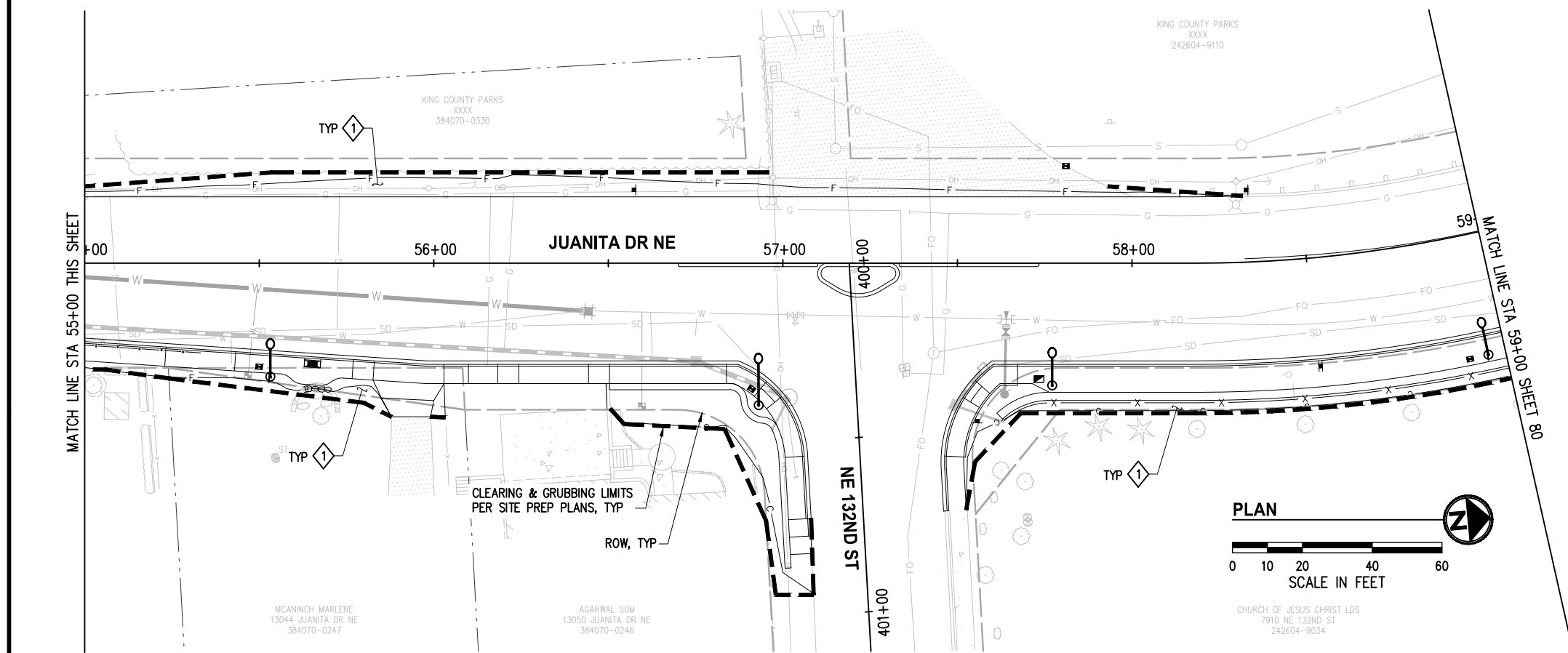
REFERENCE SHEET NO.
SHEET 78 OF 161 SHEETS

September 16, 2023 - 7:51 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN02.DWG - Layout Name: LPN (05) STA 51+00 TO STA 59+00



**CONSTRUCTION NOTES**

1 BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.



SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

DATE	NO.	REVISION	BY



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9/2023

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FIELD BOOK(S):  
VERT. DATUM: NAVD 88  
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 51+00 TO STA 59+00  
**LANDSCAPE RESTORATION PLAN**

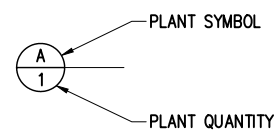
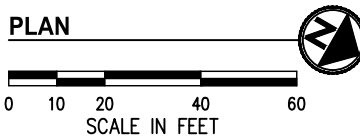
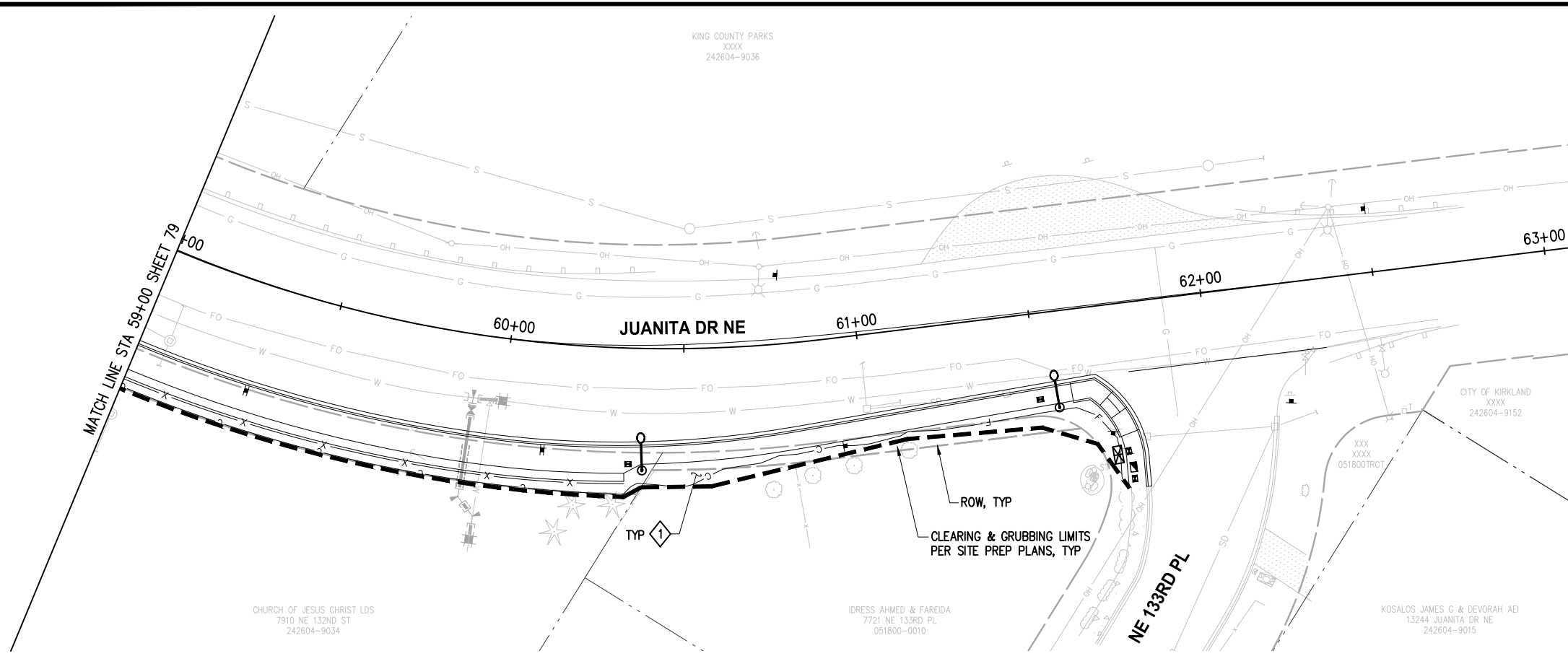
REFERENCE SHEET NO.  
SHEET 79 OF 161 SHEETS

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KING COUNTY PARKS  
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242604-9036

**CONSTRUCTION NOTES**

1 BACK OF WALK RESTORATION PER RESTORATION TABLE SHEET 81.



**SEE SHEET 81 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 59+00 TO STA 63+00

**LANDSCAPE RESTORATION PLAN**

REFERENCE SHEET NO.

SHEET 80 OF 161 SHEETS



September 16, 2023 - 7:52 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\LPN-DET01.DWG - Layout Name: PLANT SCHEDULE & DETAILS

**TREE SCHEDULE**

SYMBOL		BOTANICAL NAME/ COMMON NAME	SIZE	QTY*	REMARKS
	T1	NYSSA SYLVATICA 'DAVID ODOM'/ AFTERBURNER TUPELO <sup>2</sup>	2.5" CAL. 12-14' HT.	9	B&B; WELL-BRANCHED
	T2	PINUS CONTORTA 'CONTORTA'/ SHORE PINE <sup>1</sup>	7'-8' HT.	8	B&B; WELL-BRANCHED
	T3	THUJA PLICATA/ WESTERN RED CEDAR <sup>1</sup>	7'-8' HT.	13	B&B; WELL-BRANCHED
	T4	TSUGA MERTENSIANA/ MOUNTAIN HEMLOCK <sup>1</sup>	7'-8' HT.	9	B&B; WELL-BRANCHED
	T5	ACER CIRCINATUM/ VINE MAPLE <sup>2</sup>	6'-7' HT.	16	3-5 CANES MIN. 1" MIN. CAL. PER CANE

<sup>1</sup> (30) TREES TO BE PLANTED ALONG THE PROJECT CORRIDOR TO MITIGATE FOR (10) LANDMARK TREE REMOVALS (3:1 RATIO).

<sup>2</sup> (25) TREES TO BE PLANTED ALONG THE PROJECT CORRIDOR TO MITIGATE FOR (25) OF (91) SIGNIFICANT TREE REMOVALS (1:1 RATIO). AN ADDITIONAL 66 TREES WILL BE MITIGATED THROUGH FEE-IN-LIEU PAID TO THE CITY FORESTRY ACCOUNT.

**GENERAL NOTES**

- ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
- PLANT, MAINTAIN AND WARRANTY AS PER SPECIAL PROVISIONS.
- DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
- INSTALL 2" MULCH OVER ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED, UNLESS OTHERWISE NOTED.
- PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE PROJECT ENGINEER.
- ALL SINGLE-STEM DECIDUOUS TREES SHALL MEET WSDOT "STREET TREE GRADE" STANDARD AND SHALL BRANCH AT MIN. 6' ABOVE ROOTBALL.

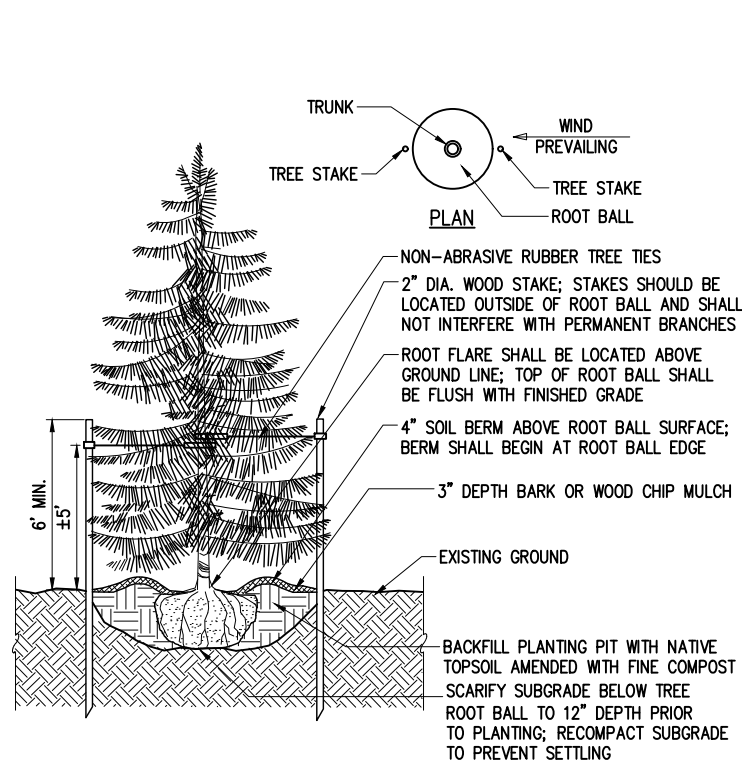
**TREE PLANTING NOTES**

- TREE PIT SHALL NOT BE LESS THAN (3) TIMES ROOTBALL DIAMETER.
- CUT ALL TIES AND REMOVE BURLAP FROM ROOTBALL.
- REMOVE ALL PLASTIC AND TWINE.
- BACKFILL TOPSOIL AROUND ROOT BALL IN 6" LIFTS AND LIGHTLY RECOMPACT EACH LIFT; AFTER BACKFILLING, WATER IN ROOT BALL TO SETTLE THE SOIL.
- PLANT TREES WITH ROOT FLARE VISIBLE; DO NOT COVER TOP OF ROOTBALL WITH SOIL.

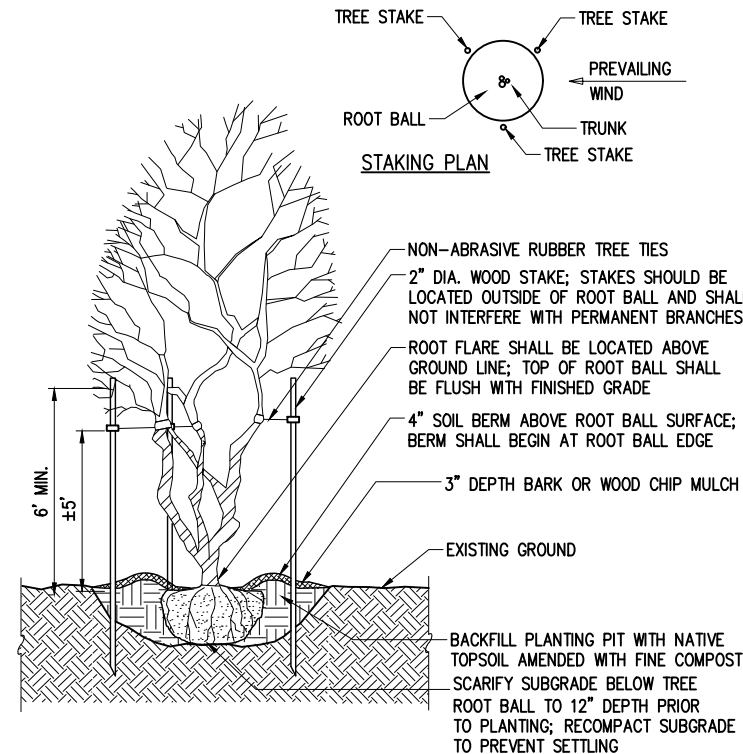
**RESTORATION TABLE**

EXISTING CONDITIONS	RESTORATION
GRAVEL	2" CSTC*
LAWN / UNIMPROVED AREA	SEEDED LAWN OVER 2" TOPSOIL TYPE A*
LANDSCAPED AREA / MULCH	2" BARK OR WOOD CHIP MULCH OVER 4" TOPSOIL TYPE A*

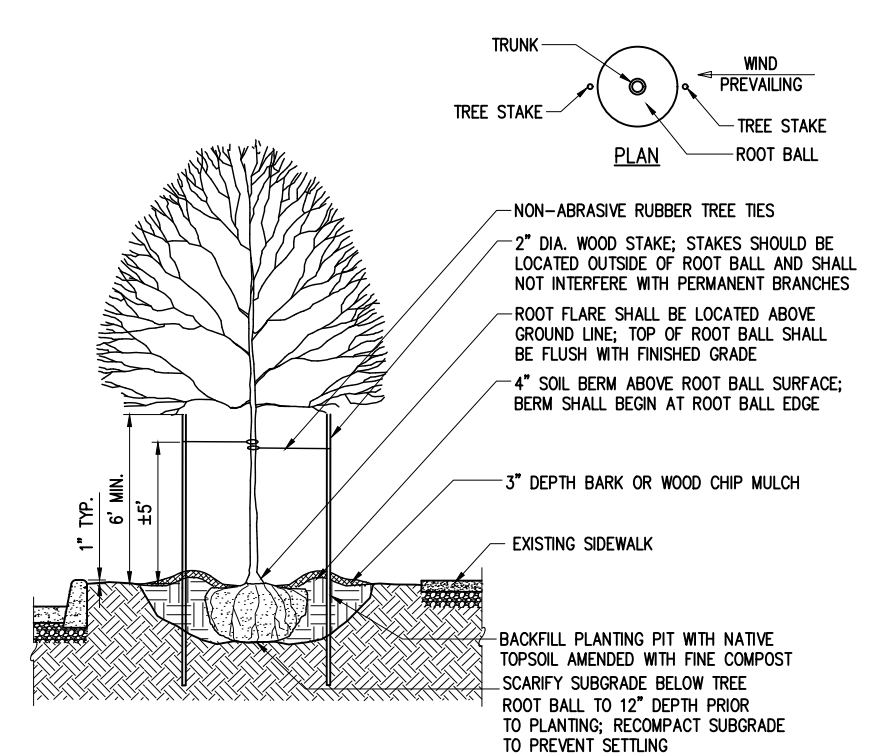
\*INCREASE DEPTH OF CSTC/TOPSOIL AS REQUIRED TO BRING FINISHED GRADE FLUSH WITH ADJACENT SURFACES



**TYPICAL EVERGREEN TREE PLANTING DETAIL**  
NTS



**TYPICAL MULTI-STEM TREE PLANTING DETAIL**  
NTS



**TYPICAL DECIDUOUS TREE PLANTING DETAIL**  
NTS

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
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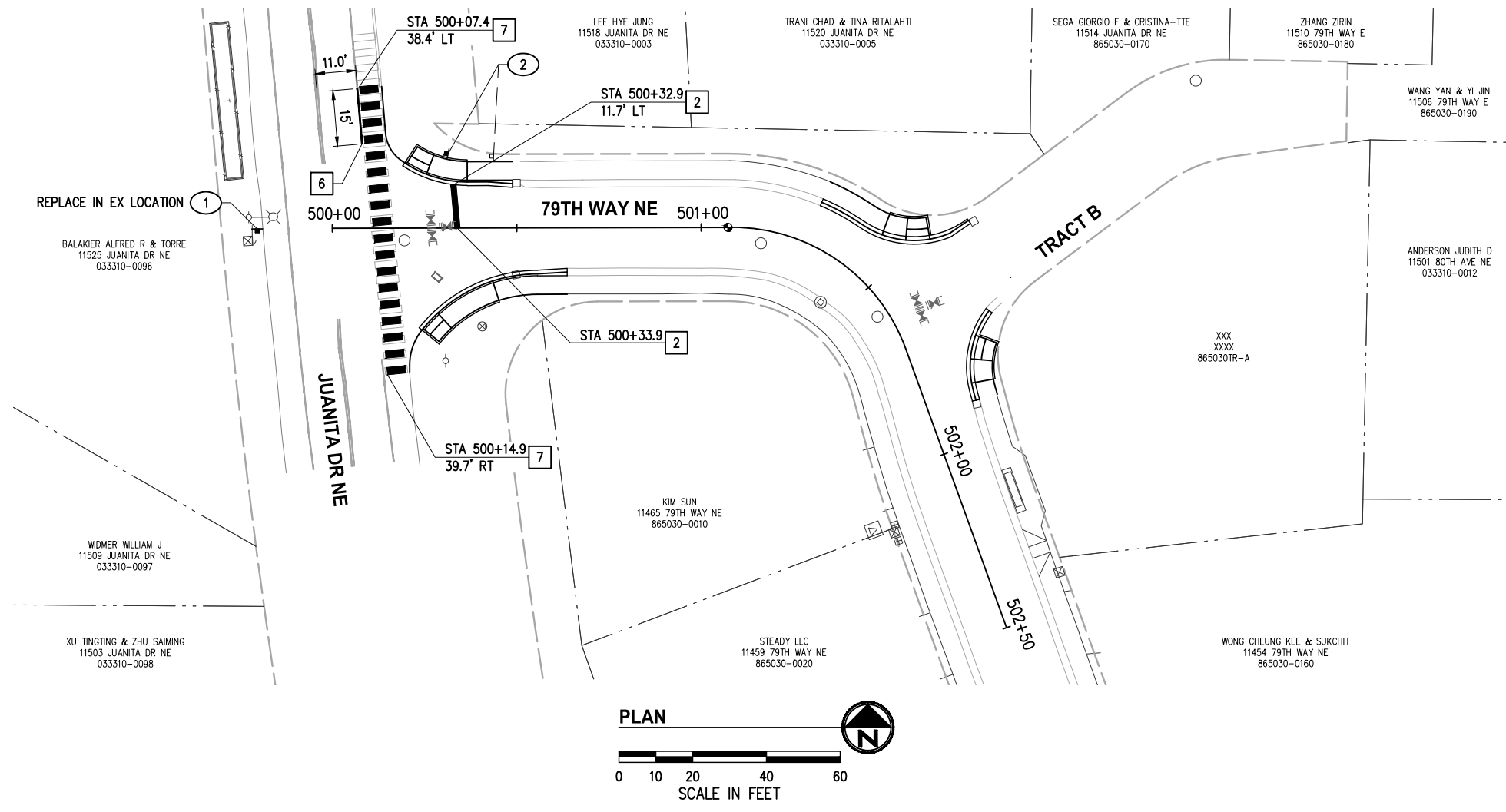
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
PLANT SCHEDULE & DETAILS  
**LANDSCAPE RESTORATION PLAN**

REFERENCE SHEET NO.  
SHEET 81 OF 161 SHEETS

FUNDING NO. 19065

September 16, 2023 - 7:53 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\CHAND1.DWG - Layout Name: CH (1) STA 500+00 TO STA 502+50



**GENERAL NOTES**

1. ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
3. ALL SYMBOLS SHALL BE CENTERED IN LANE.
4. ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
5. ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
6. ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
7. STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
8. CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
9. SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

**CONSTRUCTION NOTES**

- 2 THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
- 3 PAINTED 6" WHITE EDGE LINE
- 6 PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
- 7 THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C

(X) SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
1	-	-	STREET NAME SIGNS	VARIES
2	500+31.4	20.1' LT	R1-1, STREET SIGNS	30X30

**LEGEND**

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM
9/2023	9/2023



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FUNDING NO. 19065

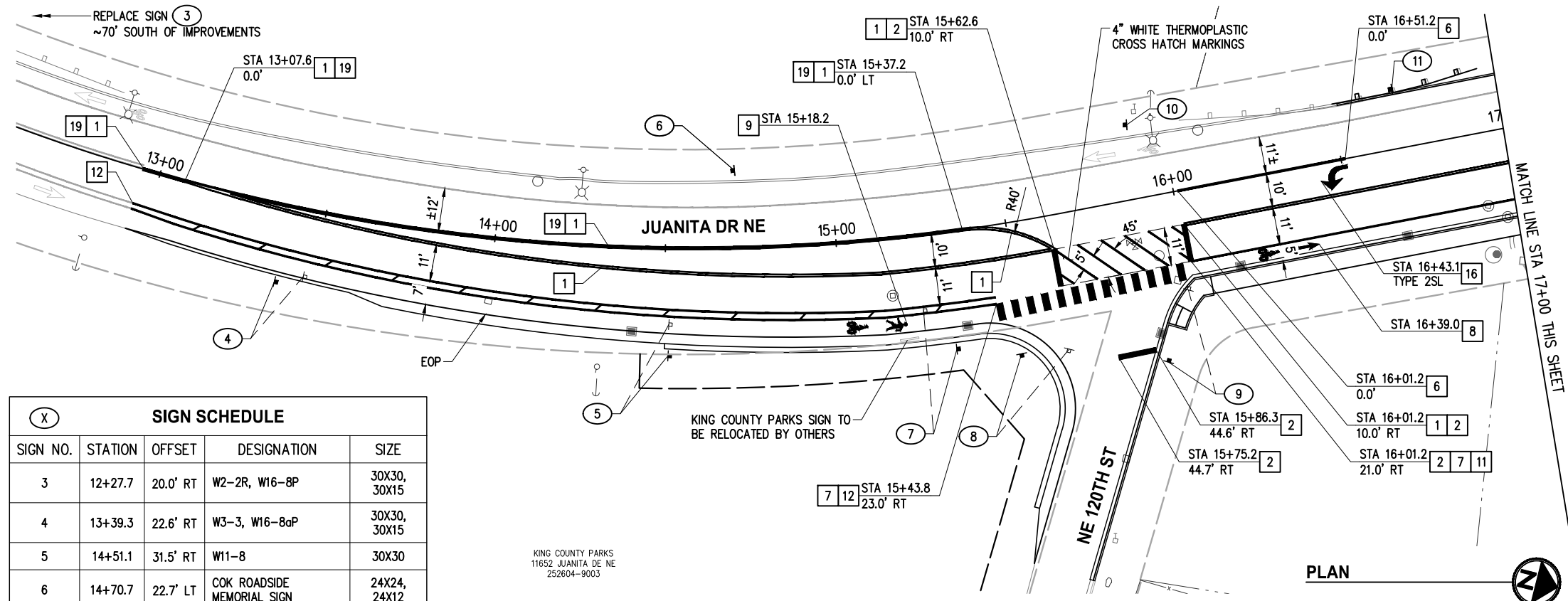
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 500+00 TO STA 502+50

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO.
SHEET 82 OF 161 SHEETS

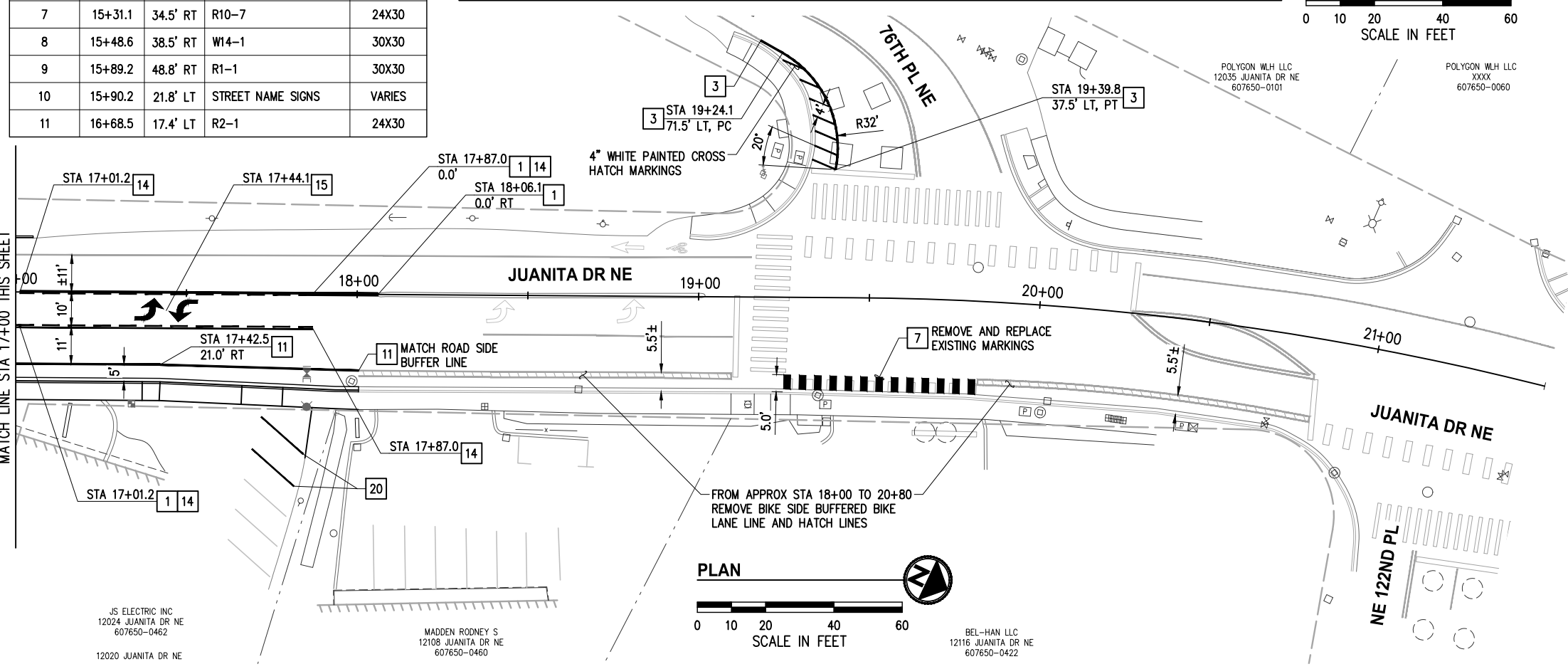
September 16, 2023 - 7:54 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\CHAN02.DWG - Layout Name: CH (01) STA 12+50 TO STA 21+50



(X)	SIGN SCHEDULE			
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
3	12+27.7	20.0' RT	W2-2R, W16-8P	30X30, 30X15
4	13+39.3	22.6' RT	W3-3, W16-8aP	30X30, 30X15
5	14+51.1	31.5' RT	W11-8	30X30
6	14+70.7	22.7' LT	COK ROADSIDE MEMORIAL SIGN	24X24, 24X12
7	15+31.1	34.5' RT	R10-7	24X30
8	15+48.6	38.5' RT	W14-1	30X30
9	15+89.2	48.8' RT	R1-1	30X30
10	15+90.2	21.8' LT	STREET NAME SIGNS	VARIES
11	16+68.5	17.4' LT	R2-1	24X30

- GENERAL NOTES**
- ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
  - CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
  - ALL SYMBOLS SHALL BE CENTERED IN LANE.
  - ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
  - ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
  - ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
  - STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
  - CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
  - SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

- CONSTRUCTION NOTES**
- PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
  - THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
  - PAINTED 6" WHITE EDGE LINE
  - PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
  - THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
  - THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
  - THERMOPLASTIC BICYCLE AND PEDESTRIAN LANE MARKINGS PER C.O.K. STD PLAN CK-R.34B
  - PAINTED 6" WHITE EDGE LINE FOR BIKE LANE PER C.O.K. STD PLAN CK-R.35
  - PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
  - PAINTED TWO-WAY LEFT TURN LANE LINE PER C.O.K. STD PLAN CK-R.31
  - THERMOPLASTIC TWO-WAY LEFT TURN ARROWS, SPACING PER C.O.K. STD PLAN CK-R.30, TRAFFIC ARROW PER WSDOT STD PLAN M-24.40
  - THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, TYPE AS NOTED
  - CENTERLINE RUMBLE STRIP PER WSDOT STD PLAN M-65.10-03
  - REPLACE PAVEMENT MARKINGS, MATCH EXISTING

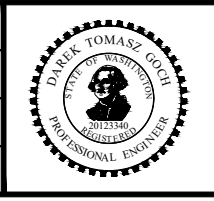


- LEGEND**
- EXISTING SIGN
  - PROPOSED SIGN
  - SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 12+50 TO STA 21+50

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO. SHEET 83 OF 161 SHEETS

September 16, 2023 - 7:55 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\CHAND\1.DWG - Layout Name: CH (2) NE 122ND PL & 80TH AVE NE

NG JENNY KUN & CRAIN ADAM  
7840 NE 122ND PL  
607650-0380

NG JENNY KUN & CRAIN ADAM  
N/A  
607650-0368

FORHAN SUSAN G  
12225 80TH AVE NE  
607650-0364

80TH AVE NE

WU PENG & YIYUE SONG  
8004 NE 123RD ST  
798090-0071

R1-1, REPALCE, 30X30  
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E 1295367.83

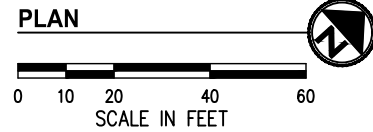
JAF ARZADEH SHINA GHONCHEH  
8018 NE 123RD ST  
798090-0062

NE 122ND PL

NE 123RD ST

HO LAP SUN  
7851 NE 122ND PL  
607650-0420

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952235TR-A



**GENERAL NOTES**

1. ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
3. ALL SYMBOLS SHALL BE CENTERED IN LANE.
4. ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
5. ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
6. ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
7. STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
8. CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
9. SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

**CONSTRUCTION NOTES**

- 20 REPLACE PAVEMENT MARKINGS, MATCH EXISTING

**LEGEND**

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM

9/2023	9/2023
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(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 19065

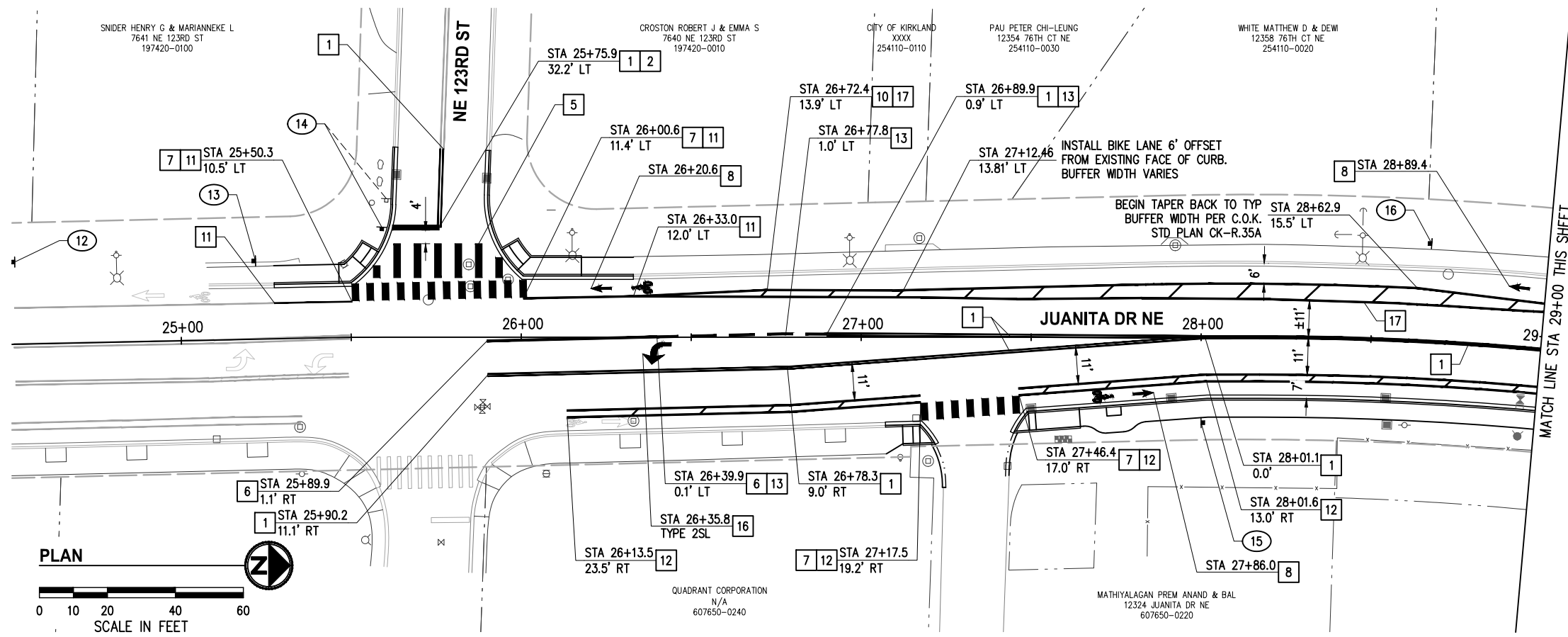
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

NE 122ND PL & 80TH AVE NE

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO.
SHEET 84 OF 161 SHEETS

September 16, 2023 - 7:56 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065CHAN02.DWG - Layout Name: CH (02) STA 24+50 TO STA 33+50



**GENERAL NOTES**

1. ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
3. ALL SYMBOLS SHALL BE CENTERED IN LANE.
4. ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
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6. ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
7. STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
8. CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
9. SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

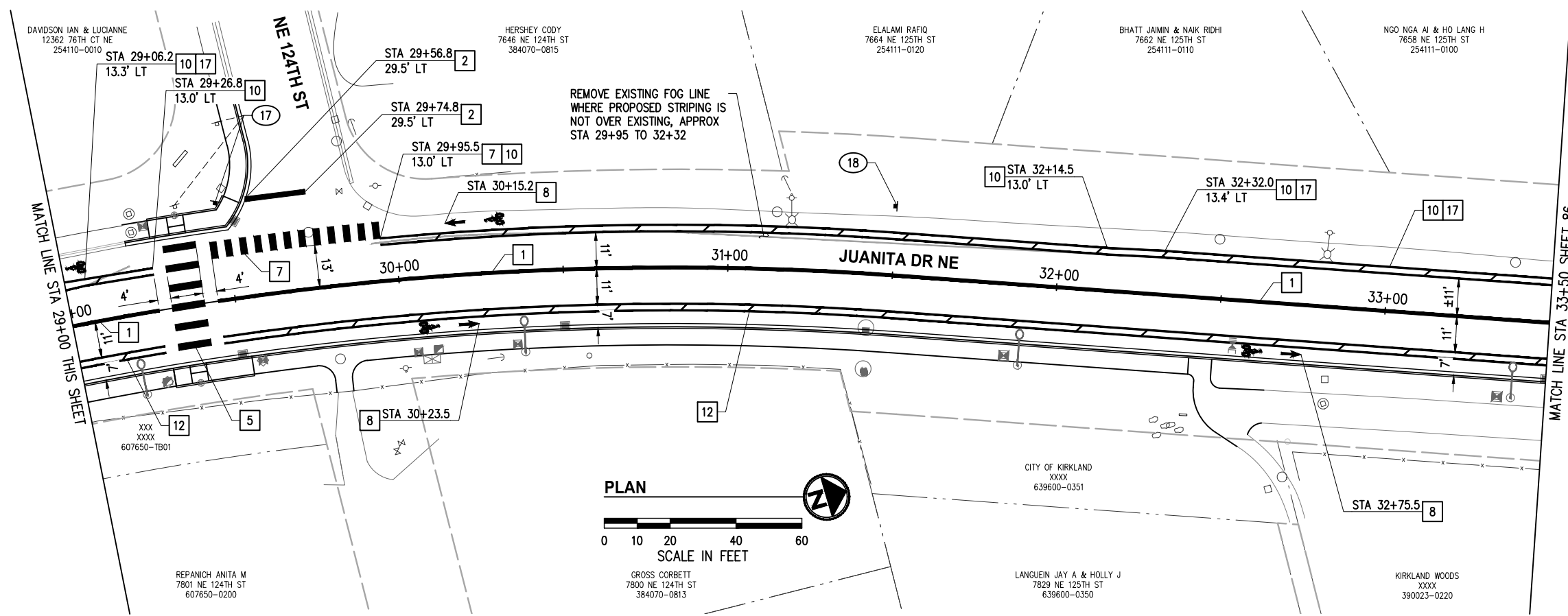
**CONSTRUCTION NOTES**

1. PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
2. THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
5. THERMOPLASTIC CROSSWALK PER C.O.K. STD PLAN CK-R.28, CENTERED ON RAMP OPENINGS
6. PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
7. THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
8. THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
10. PAINTED 6" WHITE BUFFERED BIKE LANE LINES AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
11. PAINTED 6" WHITE EDGE LINE FOR BIKE LANE PER C.O.K. STD PLAN CK-R.35
12. PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
13. PAINTED WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10
16. THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, TYPE AS NOTED
17. PAINT ROAD-SIDE LANE LINE OF THE BUFFERED BIKE LANE OVER EXISTING FOG LINE

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
12	24+51.5	24.2' LT	W11-8	30X30
13	25+22.3	23.0' LT	R10-7	24X30
14	25+59.1	32.3' LT	R1-1	30X30
15	28+00.0	25.2' RT	W11-2, W16-9P	30X30 24X12
16	28+66.4	28.8' LT	W3-3	30X30
17	29+48.3	30.1' LT	R1-1, STREET NAME SIGNS	30X30
18	31+50.0	21.0' LT	W11-2, W16-9P	30X30 24X12

**LEGEND**

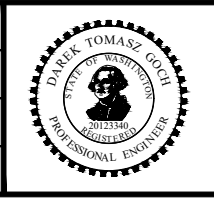
- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM
9/2023	9/2023



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FUNDING NO. 19065

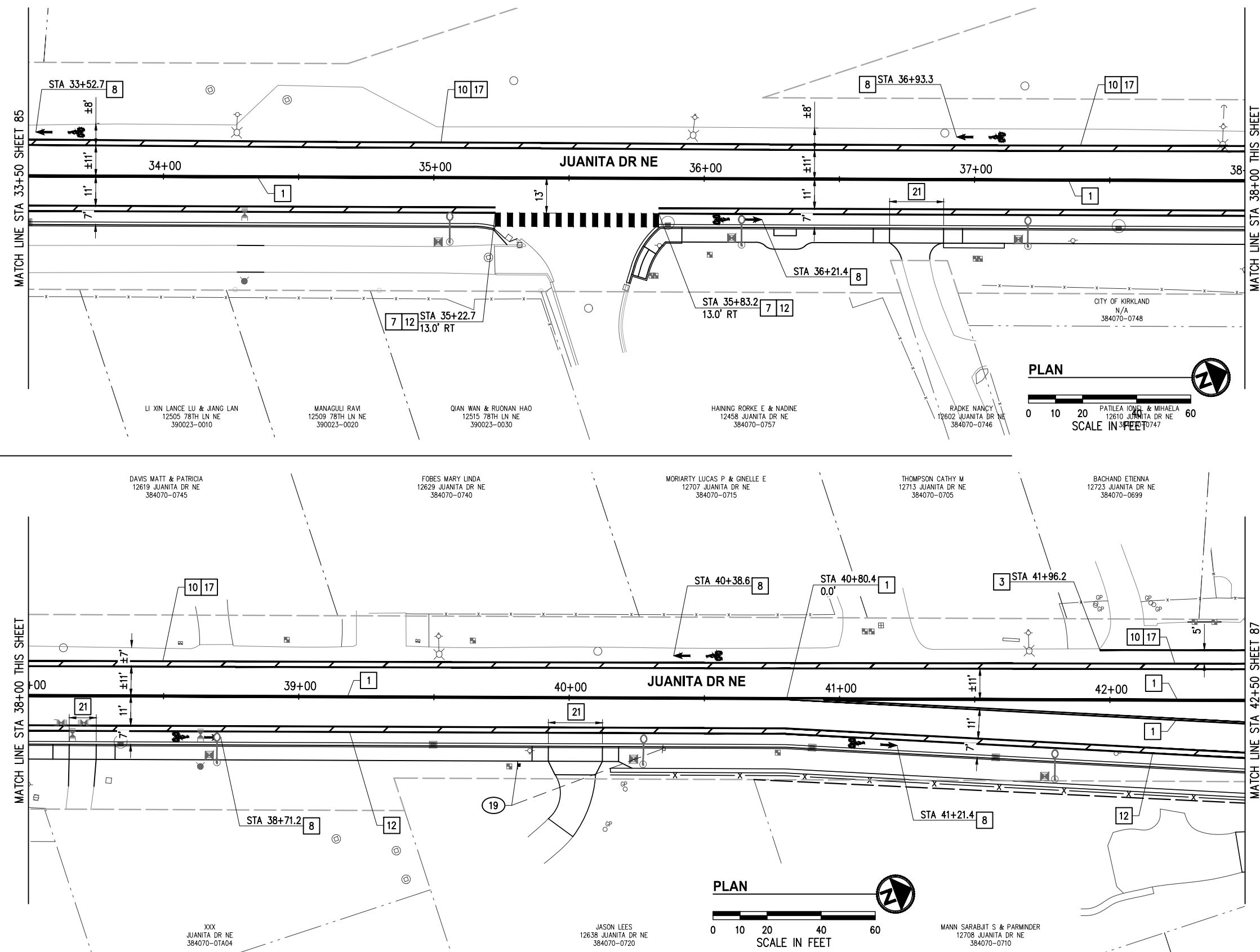
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 24+50 TO STA 33+50

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO. SHEET 85 OF 161 SHEETS

September 16, 2023 - 7:56 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\CHAND\2.DWG - Layout Name: CH (03) STA 33+50 TO STA 42+50



- ### CONSTRUCTION NOTES
- PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
  - PAINTED 6" WHITE EDGE LINE
  - THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
  - THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
  - PAINTED 6" WHITE BUFFERED BIKE LANE LINES AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LANE
  - PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LANE
  - PAINT ROAD-SIDE LANE LINE OF THE BUFFERED BIKE LANE OVER EXISTING FOG LINE
  - NON-PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE ACROSS DRIVEWAY OPENINGS. DRIVEWAY WIDTH AS NOTED IN ROADWAY PLANS SEE SHEETS 33-46

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
19	39+81.0	25.0' RT	W2-2, W16-8	30X30, VARIES

- ### LEGEND
- EXISTING SIGN
  - PROPOSED SIGN
  - SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM
9/2023	9/2023

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FUNDING NO. 19065

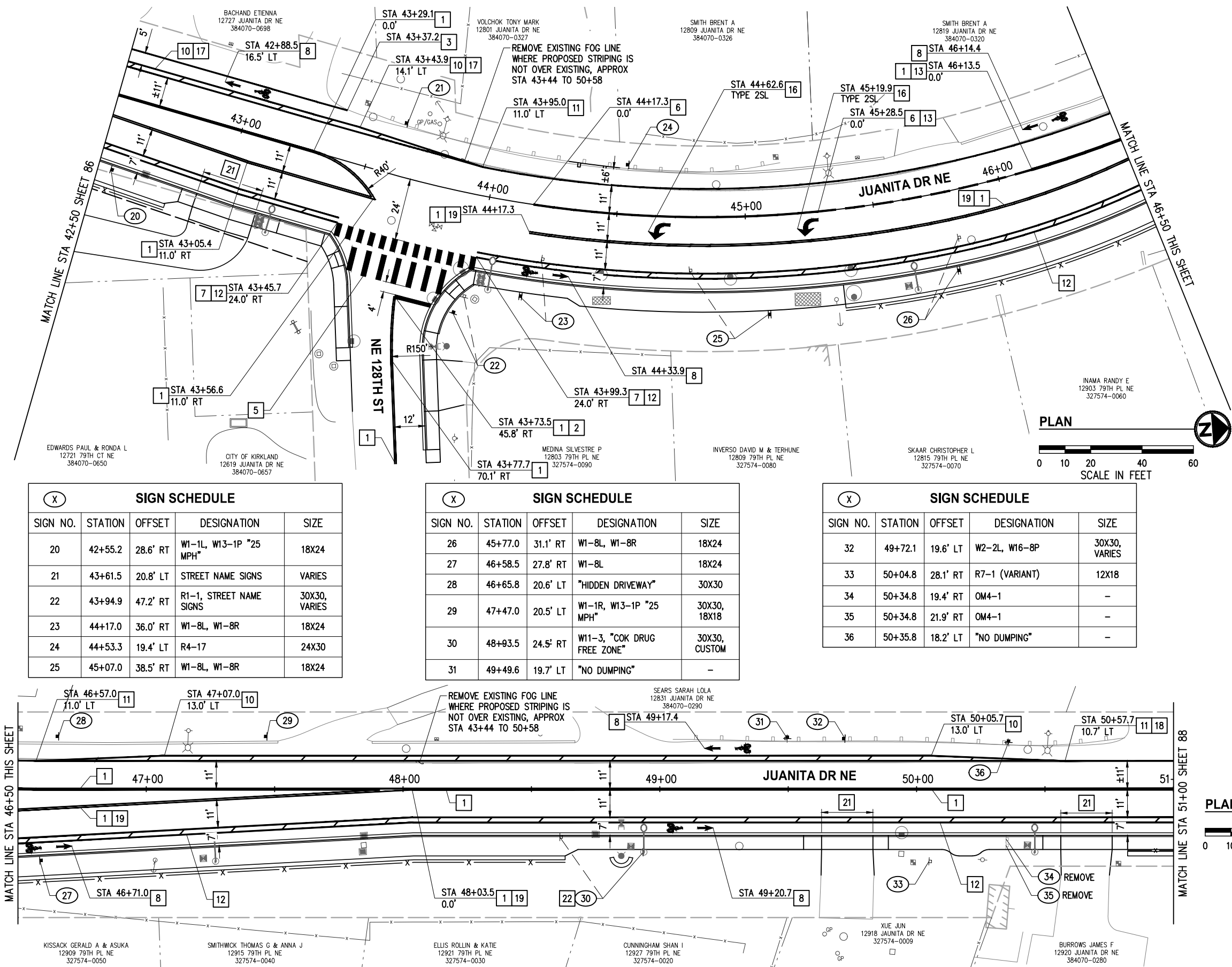
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 42+50

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO.	SHEET 86 OF 161 SHEETS
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September 16, 2023 - 7:56 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065CHAN02.DWG - Layout Name: CH (04) STA 42+50 TO STA 51+00



**GENERAL NOTES**

1. ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
3. ALL SYMBOLS SHALL BE CENTERED IN LANE.
4. ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
5. ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
6. ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
7. STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
8. CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
9. SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

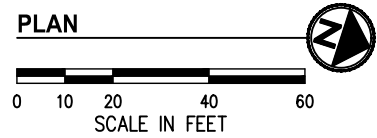
**CONSTRUCTION NOTES**

- 1 PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
- 2 THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
- 3 PAINTED 6" WHITE EDGE LINE
- 5 THERMOPLASTIC CROSSWALK PER C.O.K. STD PLAN CK-R.28, CENTERED ON RAMP OPENINGS
- 6 PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
- 7 THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
- 8 THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
- 10 PAINTED 6" WHITE BUFFERED BIKE LANE LINES AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
- 11 PAINTED 6" WHITE EDGE LINE FOR BIKE LANE PER C.O.K. STD PLAN CK-R.35
- 12 PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
- 13 PAINTED WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10
- 16 THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, TYPE AS NOTED
- 17 PAINT ROAD-SIDE LANE LINE OF THE BUFFERED BIKE LANE OVER EXISTING FOG LINE
- 18 PAINT BIKE LANE LINE OVER EXISTING FOG LINE
- 19 CENTERLINE RUMBLE STRIP PER WSDOT STD PLAN M-65.10-03
- 21 NON-PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE ACROSS DRIVEWAY OPENINGS. DRIVEWAY WIDTH AS NOTED IN ROADWAY PLANS SEE SHEETS 33-46
- 22 INSTALL SIGN ON LUMINAIRE PER WSDOT STD PLAN G-30.10

(X)	SIGN SCHEDULE			
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
20	42+55.2	28.6' RT	W1-1L, W13-1P "25 MPH"	18X24
21	43+61.5	20.8' LT	STREET NAME SIGNS	VARIES
22	43+94.9	47.2' RT	R1-1, STREET NAME SIGNS	30X30, VARIES
23	44+17.0	36.0' RT	W1-8L, W1-8R	18X24
24	44+53.3	19.4' LT	R4-17	24X30
25	45+07.0	38.5' RT	W1-8L, W1-8R	18X24

(X)	SIGN SCHEDULE			
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
26	45+77.0	31.1' RT	W1-8L, W1-8R	18X24
27	46+58.5	27.8' RT	W1-8L	18X24
28	46+65.8	20.6' LT	"HIDDEN DRIVEWAY"	30X30
29	47+47.0	20.5' LT	W1-1R, W13-1P "25 MPH"	30X30, 18X18
30	48+93.5	24.5' RT	W11-3, "COK DRUG FREE ZONE"	30X30, CUSTOM
31	49+49.6	19.7' LT	"NO DUMPING"	-

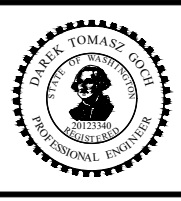
(X)	SIGN SCHEDULE			
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
32	49+72.1	19.6' LT	W2-2L, W16-8P	30X30, VARIES
33	50+04.8	28.1' RT	R7-1 (VARIANT)	12X18
34	50+34.8	19.4' RT	OM4-1	-
35	50+34.8	21.9' RT	OM4-1	-
36	50+35.8	18.2' LT	"NO DUMPING"	-



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM
9/2023	9/2023



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FUNDING NO. 19065

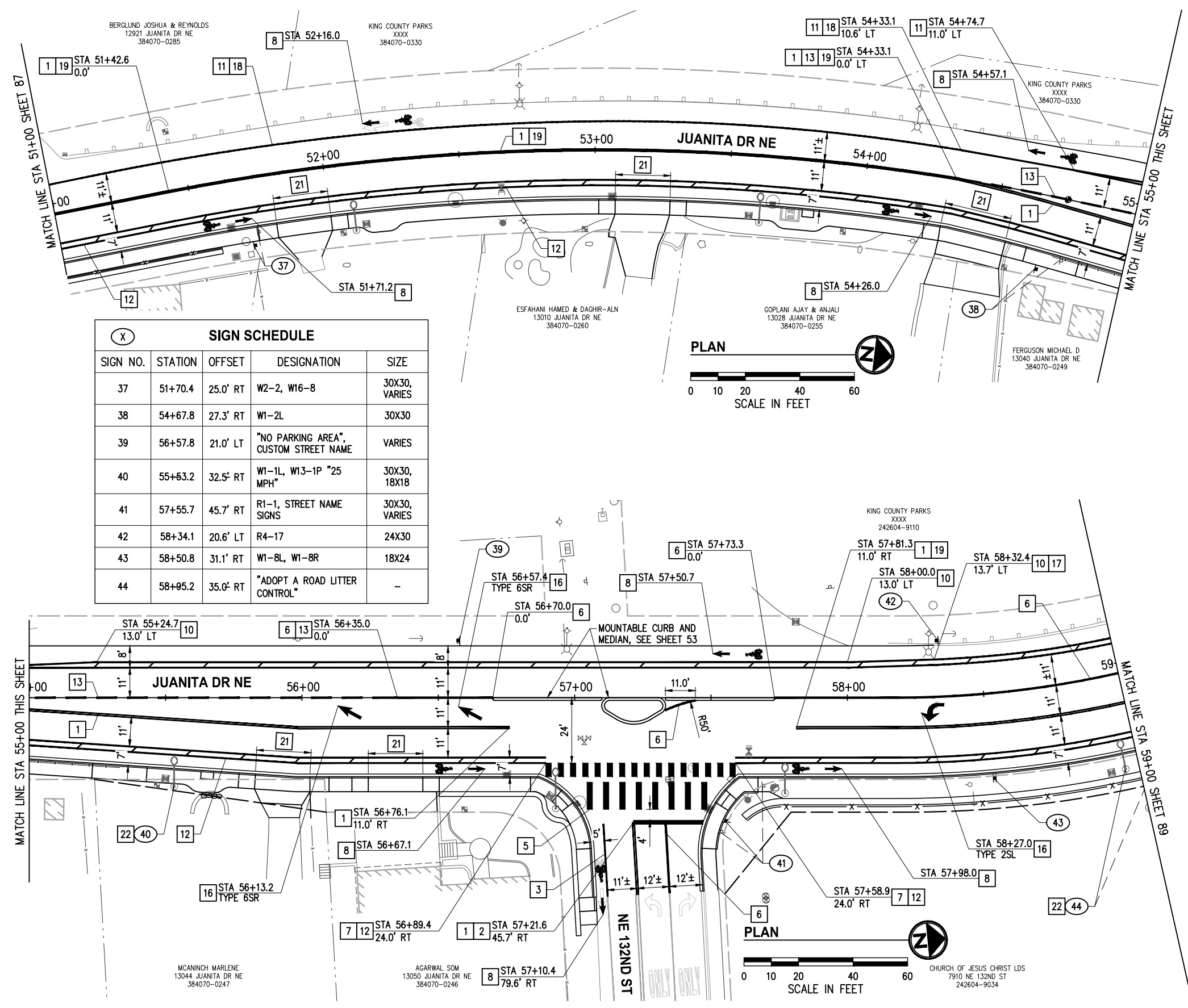
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 42+50 TO STA 51+00

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO.  
 SHEET 87 OF 161 SHEETS

September 16, 2023 - 7:56 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065CHAN02.DWG - Layout Name: CH (05) STA 51+00 TO STA 59+00



SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
37	51+70.4	25.0' RT	W2-2, W16-8	30X30, VARIES
38	54+67.8	27.3' RT	W1-2L	30X30
39	56+57.8	21.0' LT	"NO PARKING AREA", CUSTOM STREET NAME	VARIES
40	55+63.2	32.5' RT	W1-1L, W13-1P "25 MPH"	30X30, 18X18
41	57+55.7	45.7' RT	R1-1, STREET NAME SIGNS	30X30, VARIES
42	58+34.1	20.6' LT	R4-17	24X30
43	58+50.8	31.1' RT	W1-8L, W1-8R	18X24
44	58+95.2	35.0' RT	"ADOPT A ROAD LITTER CONTROL"	-

- ### GENERAL NOTES
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  - CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
  - ALL SYMBOLS SHALL BE CENTERED IN LANE.
  - ALL MARKING SHALL BE 4' CLEAR FROM CROSSWALKS.
  - ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
  - ALL SIGNS NEW AND INSTALLED PER C.O.K. STD PLAN CK-R.43.
  - STREET NAME SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.44.
  - CALLOUTS ARE TO CENTER OF LINE UNLESS OTHERWISE NOTED.
  - SIGNS LISTED IN SIGN SCHEDULE SHALL BE ALL NEW, INSTALLED AT THE LOCATION SHOWN UNLESS DIRECTED/NOTED OTHERWISE.

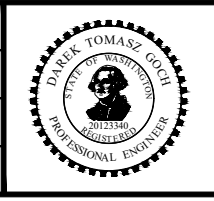
- ### CONSTRUCTION NOTES
- PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
  - THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
  - PAINTED 6" WHITE EDGE LINE
  - THERMOPLASTIC CROSSWALK PER C.O.K. STD PLAN CK-R.28, CENTERED ON RAMP OPENINGS
  - PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
  - THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
  - THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
  - PAINTED 6" WHITE BUFFERED BIKE LANE LINES AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
  - PAINTED 6" WHITE EDGE LINE FOR BIKE LANE PER C.O.K. STD PLAN CK-R.35
  - PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
  - PAINTED WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10
  - THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, TYPE AS NOTED
  - PAINT ROAD-SIDE LANE LINE OF THE BUFFERED BIKE LANE OVER EXISTING FOG LINE
  - PAINT BIKE LANE LINE OVER EXISTING FOG LINE
  - CENTERLINE RUMBLE STRIP PER WSDOT STD PLAN M-65.10-03
  - NON-PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE ACROSS DRIVEWAY OPENINGS. DRIVEWAY WIDTH AS NOTED IN ROADWAY PLANS SEE SHEETS 33-46
  - INSTALL SIGN ON LUMINAIRE PER WSDOT STD PLAN G-30.10

- ### LEGEND
- EXISTING SIGN
  - PROPOSED SIGN
  - SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 51+00 TO STA 59+00

**CHANNELIZATION & SIGNING PLAN**

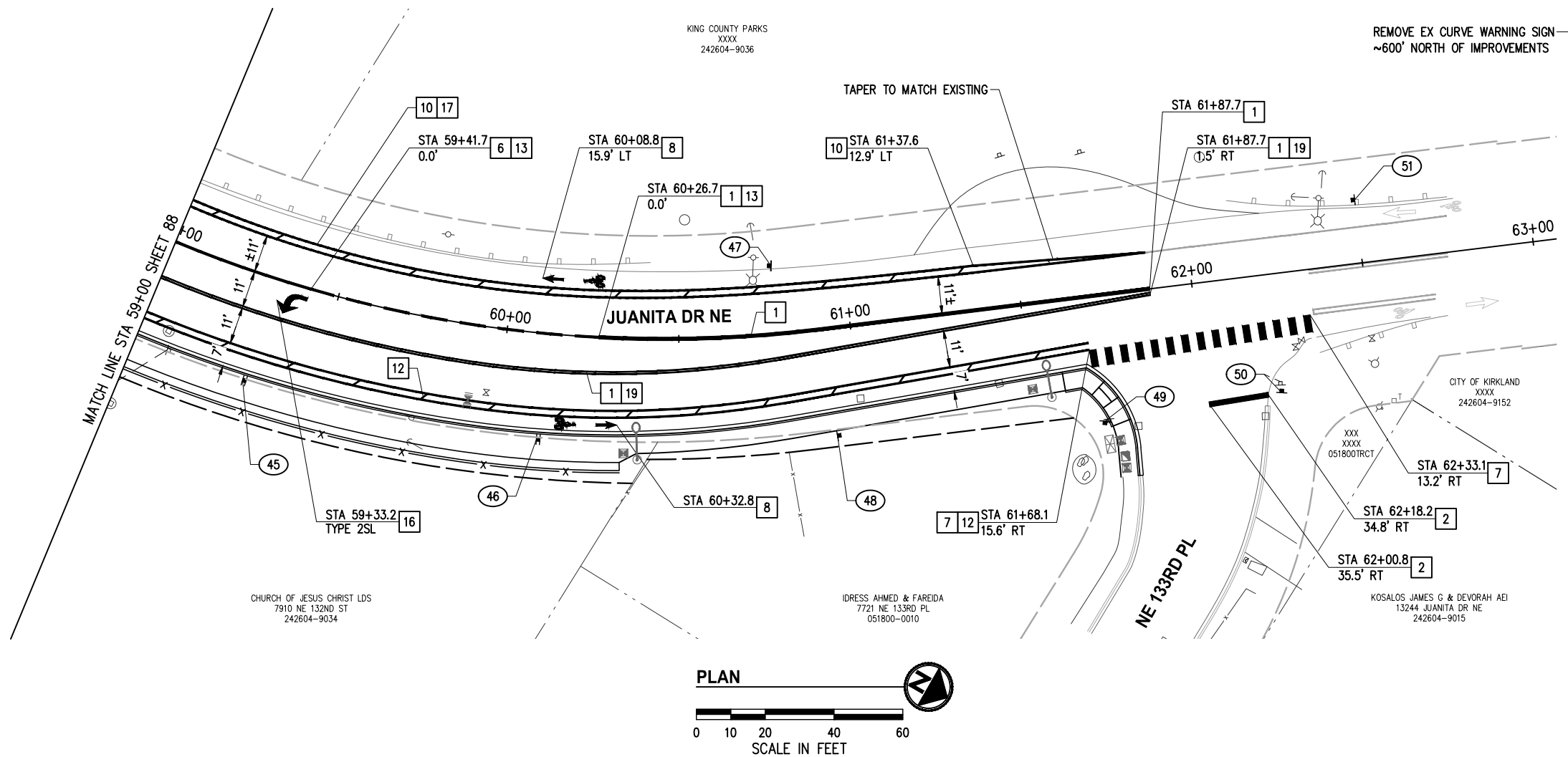
REFERENCE SHEET NO. SHEET 88 OF 161 SHEETS



September 16, 2023 - 7:56 PM - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - ERICK OLSON - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS CONTRACT\19065\DRAWINGS\CONTRACT\19065\CHAN02.DWG - Layout Name: CH (06) STA 59+00 TO STA 63+00

KING COUNTY PARKS  
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242604-9036

REMOVE EX CURVE WARNING SIGN  
~600' NORTH OF IMPROVEMENTS



- ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
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**CONSTRUCTION NOTES**

- PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
- THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
- PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
- THERMOPLASTIC BIKE LANE CONFLICT ZONE MARKINGS PER C.O.K. STD PLAN CK-R.36A AND CK-R.36C
- THERMOPLASTIC BICYCLE LANE MARKINGS PER C.O.K. STD PLAN CK-R.34
- PAINTED 6" WHITE BUFFERED BIKE LANE LINES AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
- PROFILED THERMOPLASTIC 6" WHITE ROAD-SIDE LANE LINE PER WSDOT STD PLAN M-20.20. PAINTED 6" WHITE BIKE-SIDE BUFFERED BIKE LANE LINE AND PAINTED 4" WHITE HATCH LINES PER C.O.K. STD PLAN CK-R.35A. CALLOUT IS TO CENTER OF BIKE-SIDE LINE
- PAINTED WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10
- THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, TYPE AS NOTED
- PAINT ROAD-SIDE LANE LINE OF THE BUFFERED BIKE LANE OVER EXISTING FOG LINE
- CENTERLINE RUMBLE STRIP PER WSDOT STD PLAN M-65.10-03

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE
45	59+30.8	31.1' RT	W1-8L, W1-8R	18X24
46	60+11.4	30.9' RT	W1-8L, W1-8R	18X24
47	60+78.6	19.9' LT	W2-2L, W16-8P	30X30, VARIES
48	60+92.4	31.3' RT	W1-8L	18X24
49	61+70.1	36.6' RT	W14-2	30X30
50	62+22.1	34.7' RT	R1-1, STREET NAME SIGNS	30X30, VARIES
51	62+50.0	18.4' LT	W1-1R, W13-1P "25MPH"	30X30, 18X18

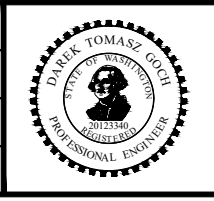
**LEGEND**

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: MM
9/2023	9/2023



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FUNDING NO. 19065

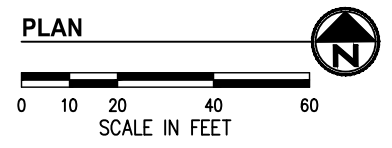
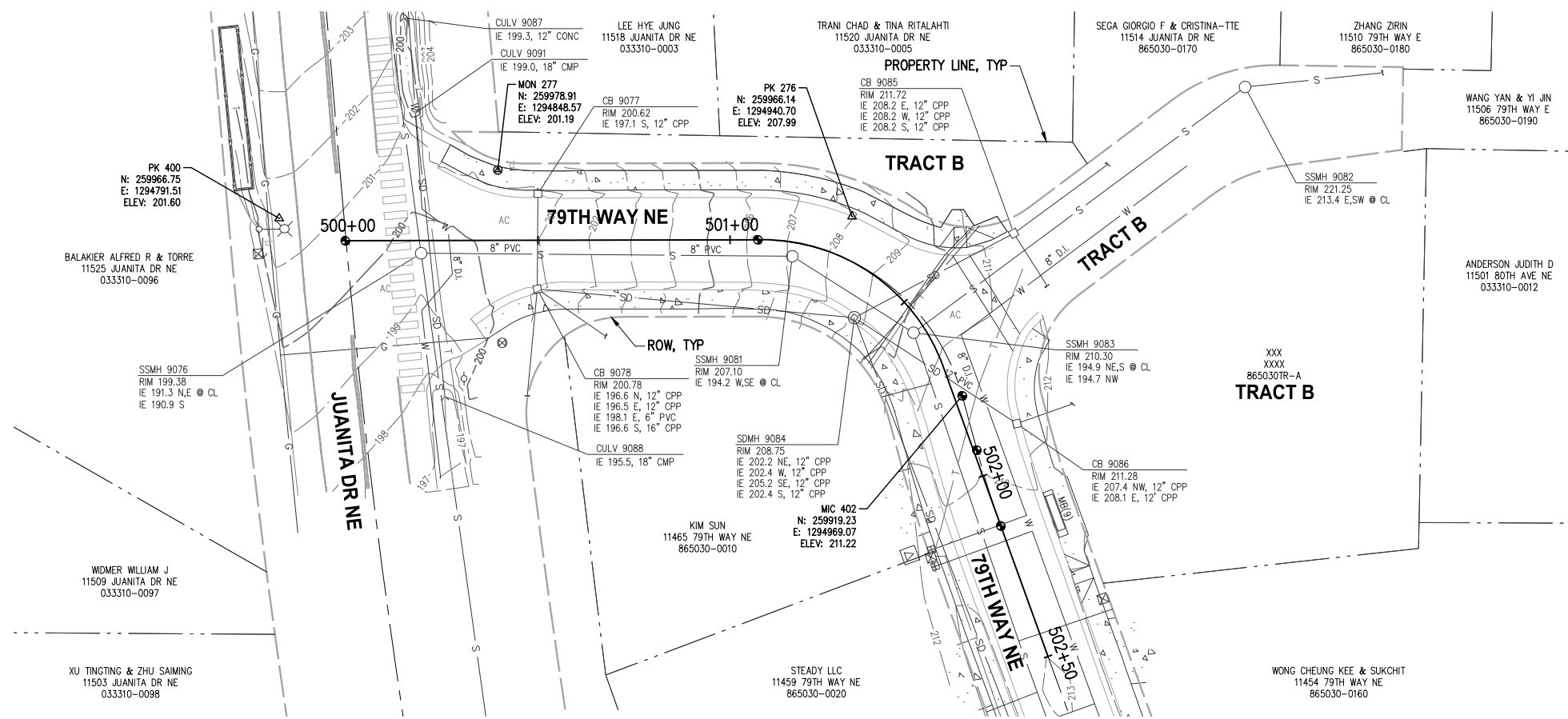
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 59+00 TO STA 63+00

**CHANNELIZATION & SIGNING PLAN**

REFERENCE SHEET NO. SHEET 89 OF 161 SHEETS

September 16, 2023 - 7:57 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\DRAWINGS\CONTRACT\19065\CONDD01.DWG - Layout Name: EC (1) STA 500+00 TO STA 502+50



**NOTES**

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
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3. FIELD SURVEY: KPG, OCTOBER, NOVEMBER, DECEMBER 2019. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

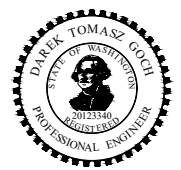
NAVD 88.

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG 9/2023	DRAWN BY: DG 9/2023



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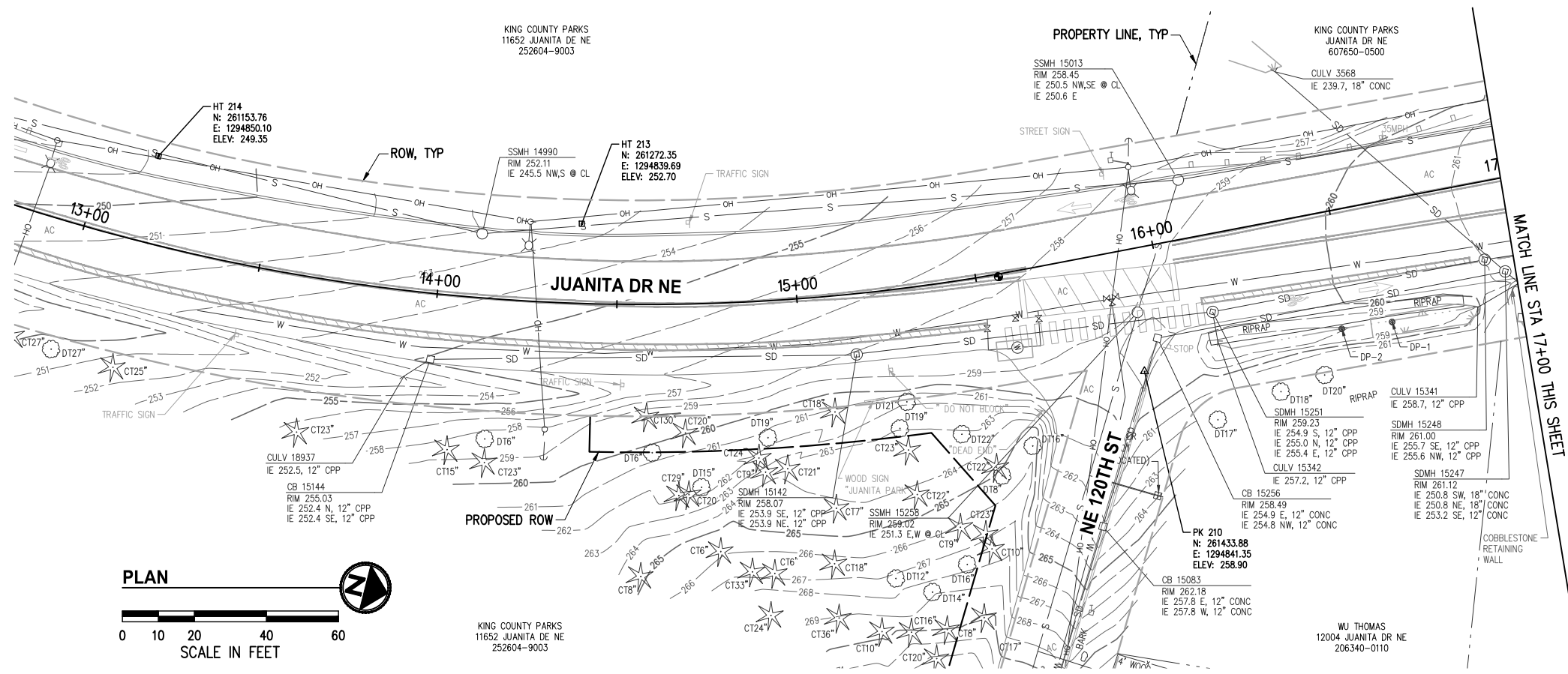


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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
  
STA 500+00 TO STA 502+50  
**EXISTING CONDITIONS & POTHOLE PLAN**

REFERENCE SHEET NO.
SHEET 90 OF 161 SHEETS

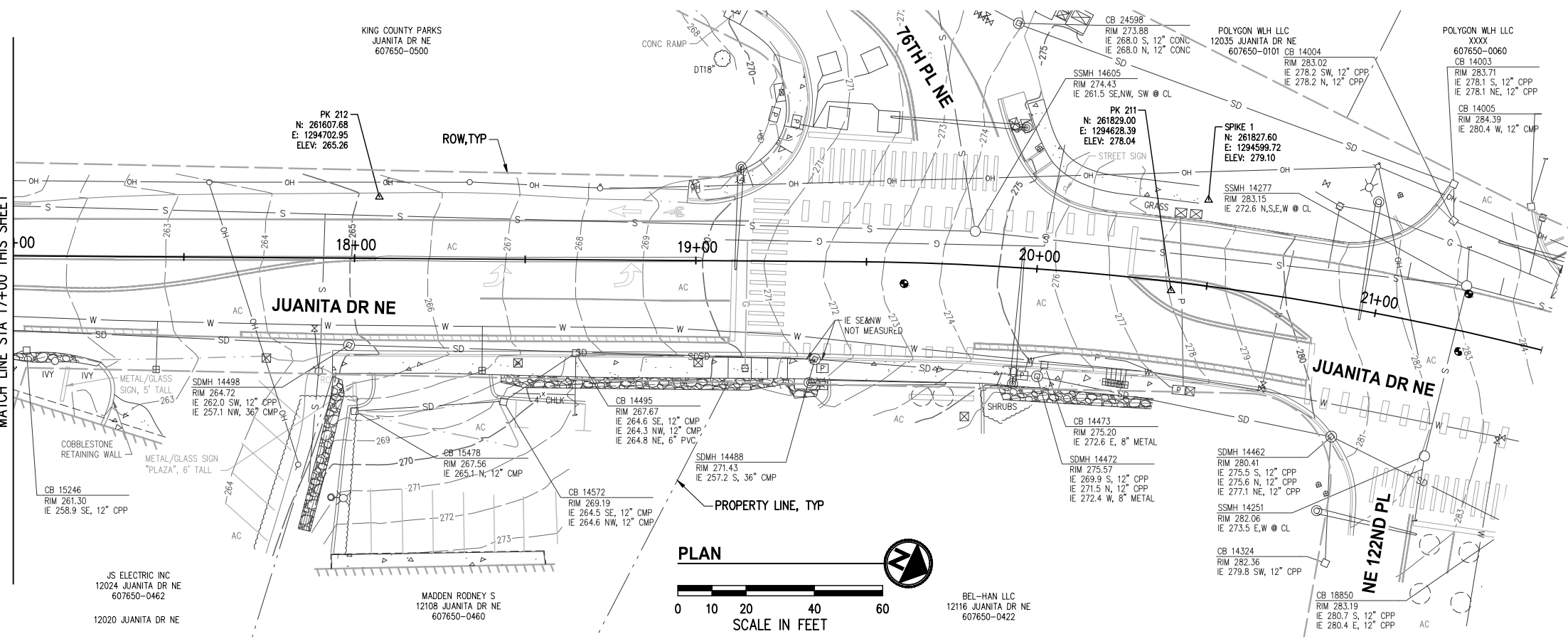
September 16, 2023 - 7:58 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\EXCOND02.DWG - Layout Name: EC (01) STA 12+50 TO STA 21+50



- NOTES**
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**HORIZONTAL DATUM**  
WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**  
NAVD 88.



**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

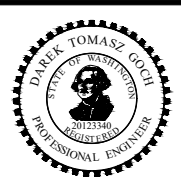
MATCH LINE STA 17+00 THIS SHEET

MATCH LINE STA 17+00 THIS SHEET

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023

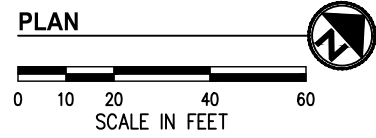
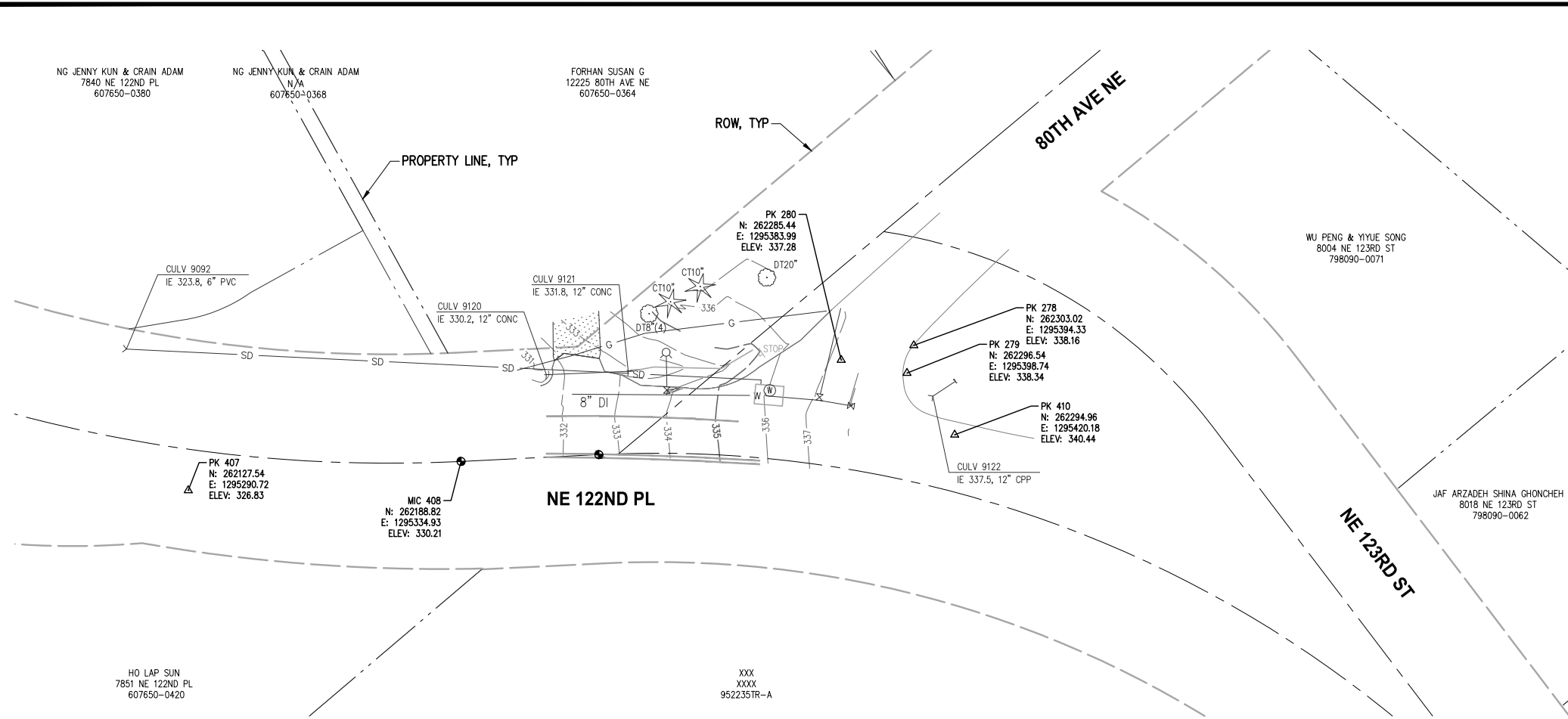


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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 12+50 TO STA 21+50  
**EXISTING CONDITIONS & POTHOLE PLAN**  
REFERENCE SHEET NO. SHEET 91 OF 161 SHEETS

September 16, 2023 - 7:59 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\EXCOND01.DWG - Layout Name: EC (2) NE 122ND PL & 80TH AVE NE



**NOTES**

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**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

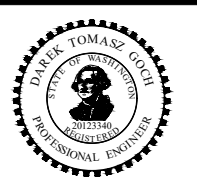
NAVD 88.

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



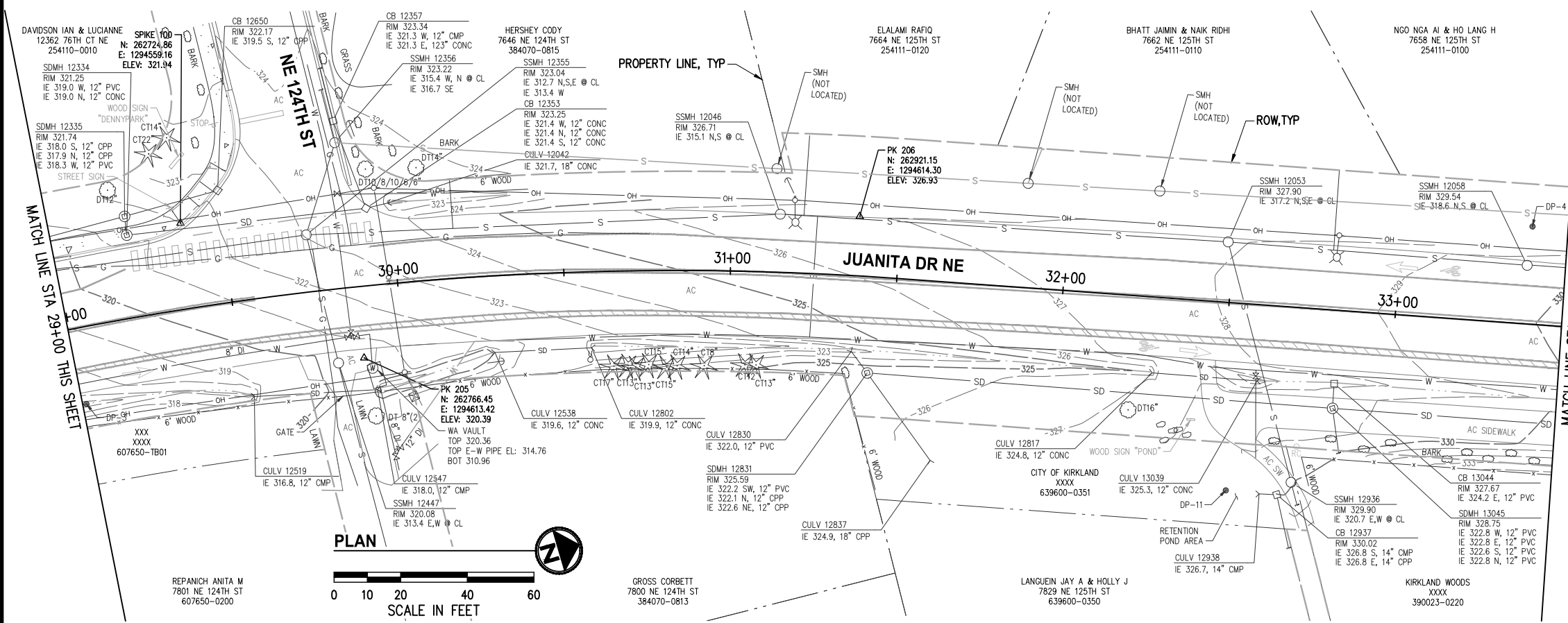
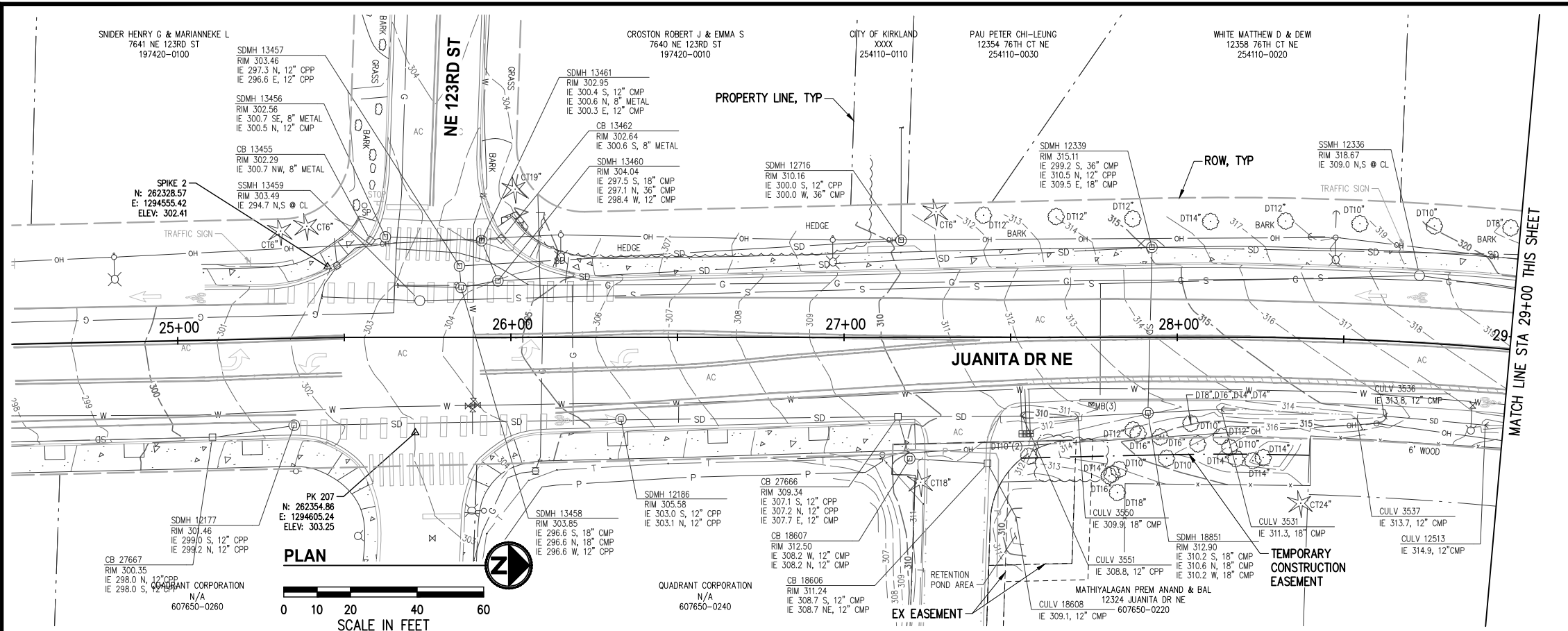
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FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
NE 122ND PL & 80TH AVE NE  
**EXISTING CONDITIONS & POTHOLE PLAN**

REFERENCE SHEET NO.
SHEET 92 OF 161 SHEETS

September 16, 2023 - 7:59 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS & DESIGN\DRAWINGS\CONTRACT\19065\EXCOND02.DWG - Layout Name: EC (02) STA 24+50 TO STA 33+50



- NOTES**
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**HORIZONTAL DATUM**  
WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

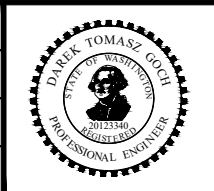
**VERTICAL DATUM**  
NAVD 88.

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



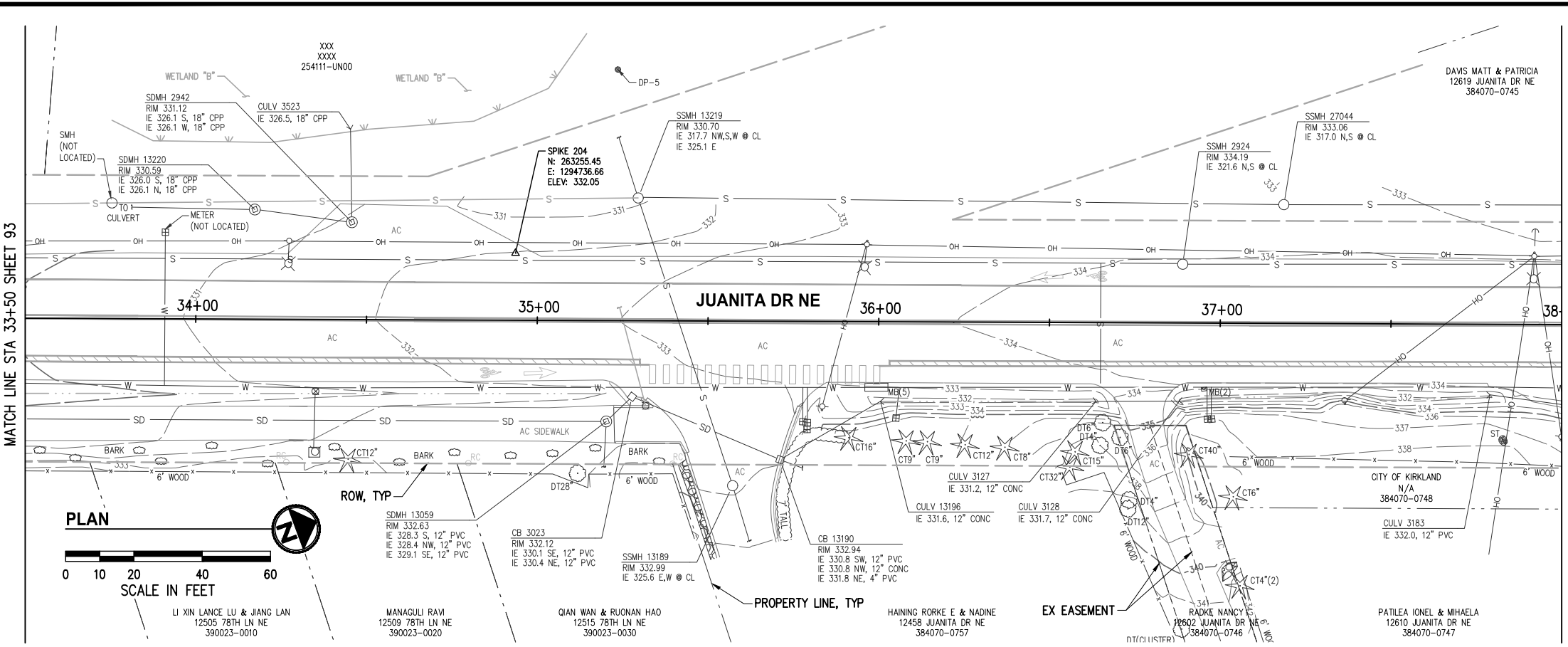
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 24+50 TO STA 33+50  
**EXISTING CONDITIONS & POTHOLES PLAN**

REFERENCE SHEET NO.
SHEET 93
OF 161
SHEETS

September 16, 2023 - 8:00 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\EXCOND02.DWG - Layout Name: EC (03) STA 33+50 TO STA 42+50



MATCH LINE STA 38+00 THIS SHEET

**NOTES**

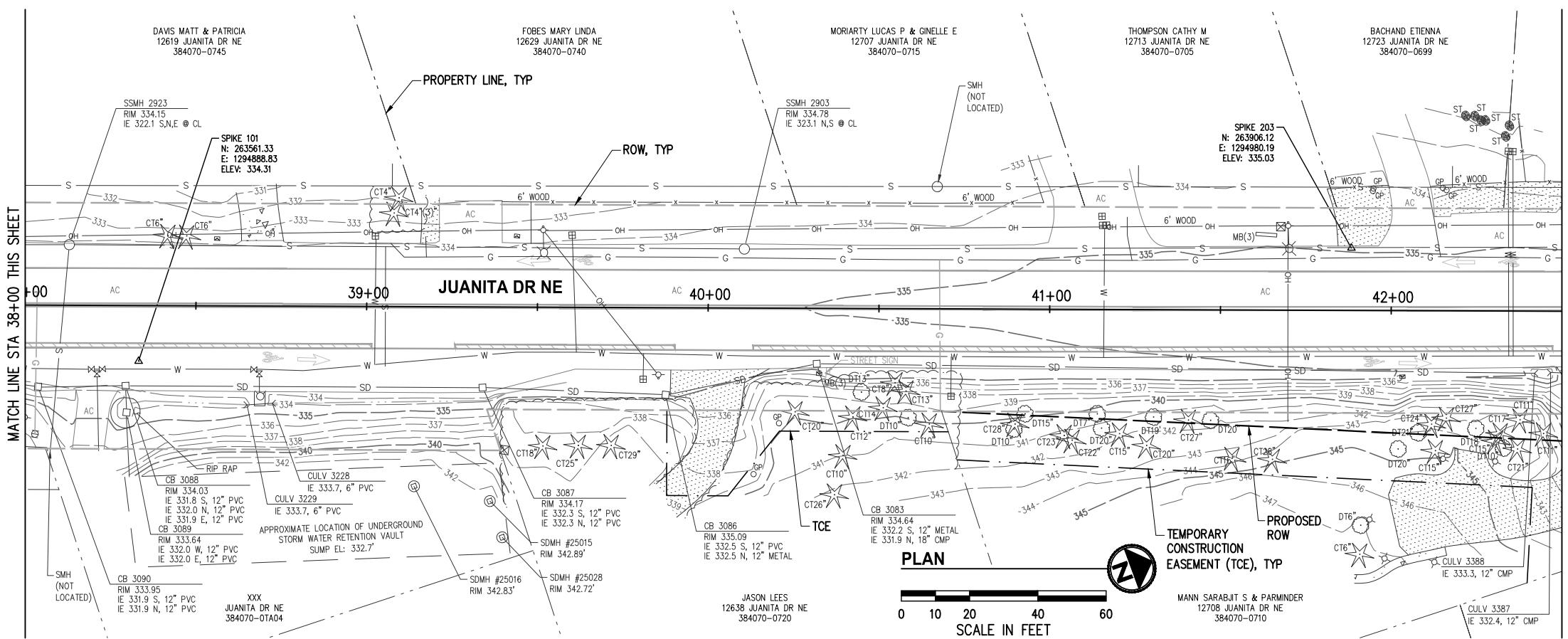
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**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

NAVD 88.



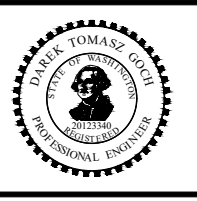
MATCH LINE STA 42+50 SHEET 95

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023

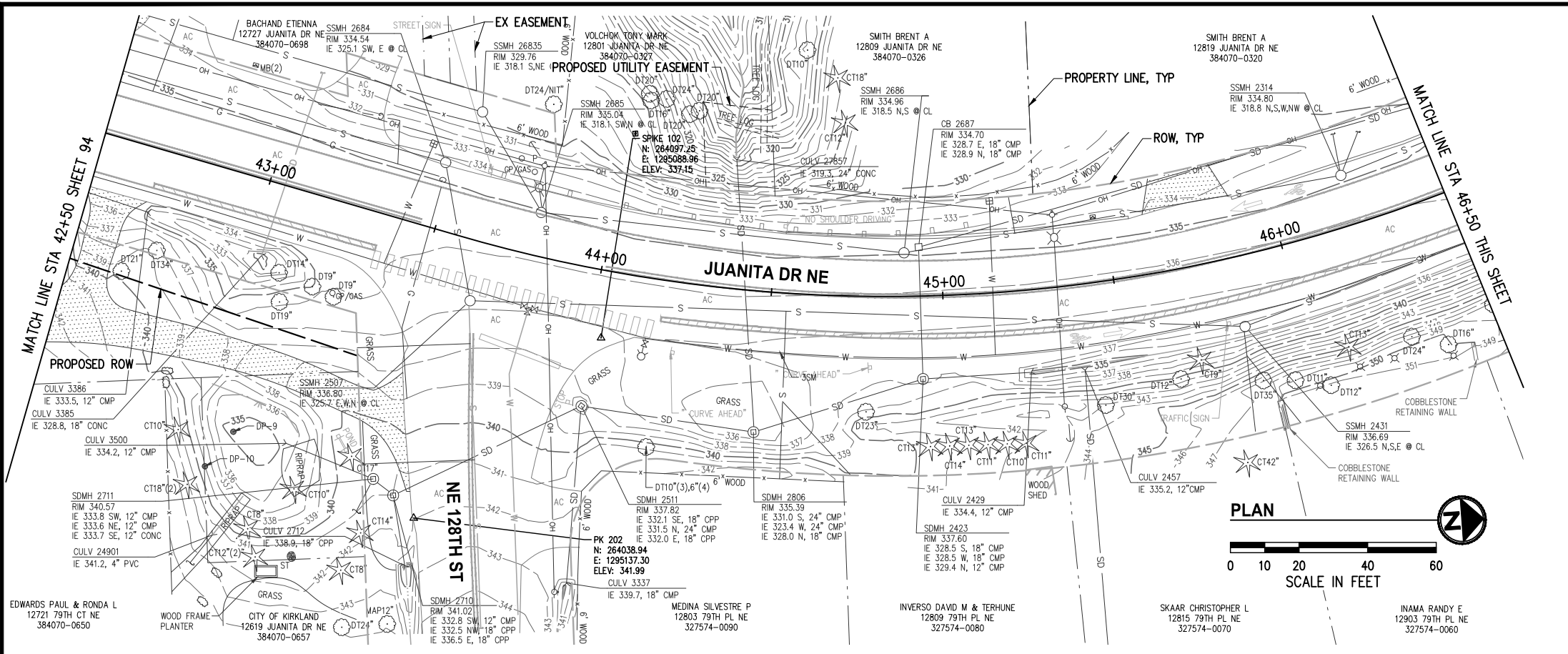


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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 33+50 TO STA 42+50  
**EXISTING CONDITIONS & POT HOLE PLAN**  
REFERENCE SHEET NO. 94 OF 161 SHEETS

September 16, 2023 - 8:00 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\EXCOND02.DWG - Layout Name: EC (04) STA 42+50 TO STA 51+00



**NOTES**

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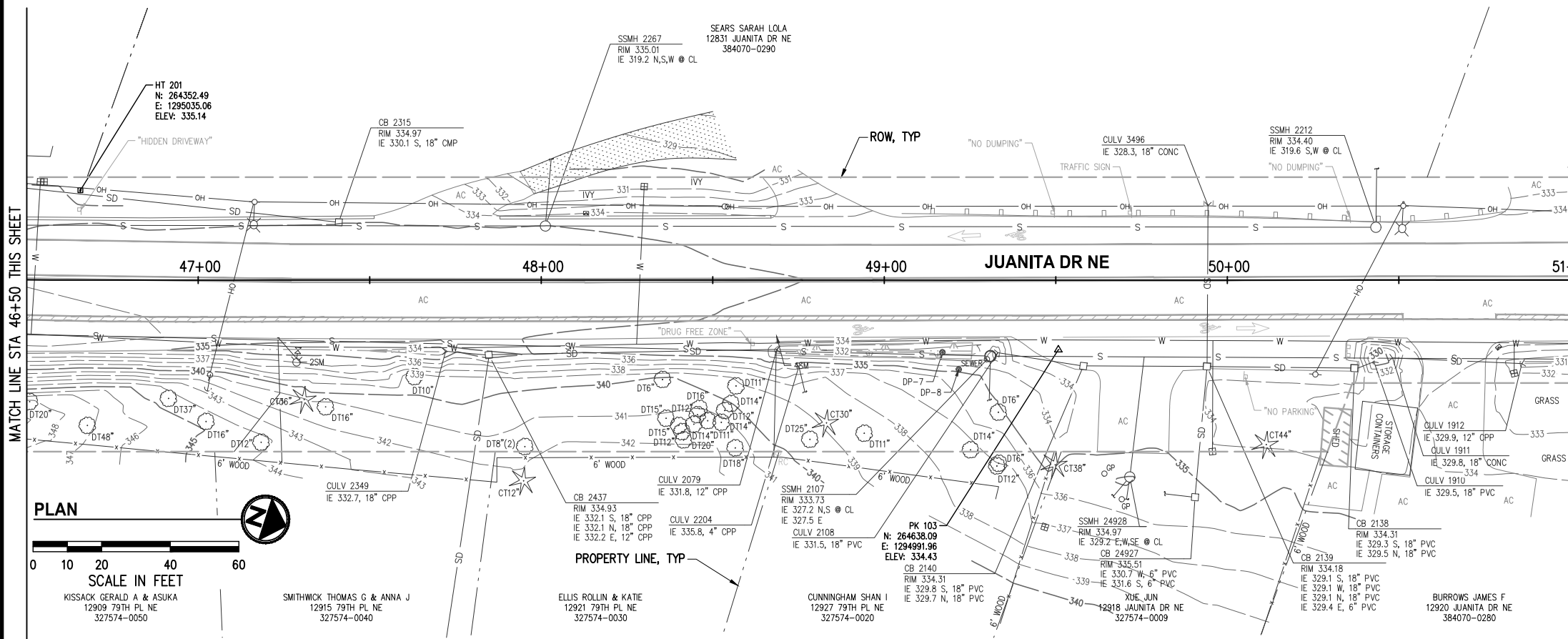
**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

NAVD 88.

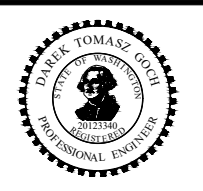
**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL



DATE	NO.	REVISION	BY



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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



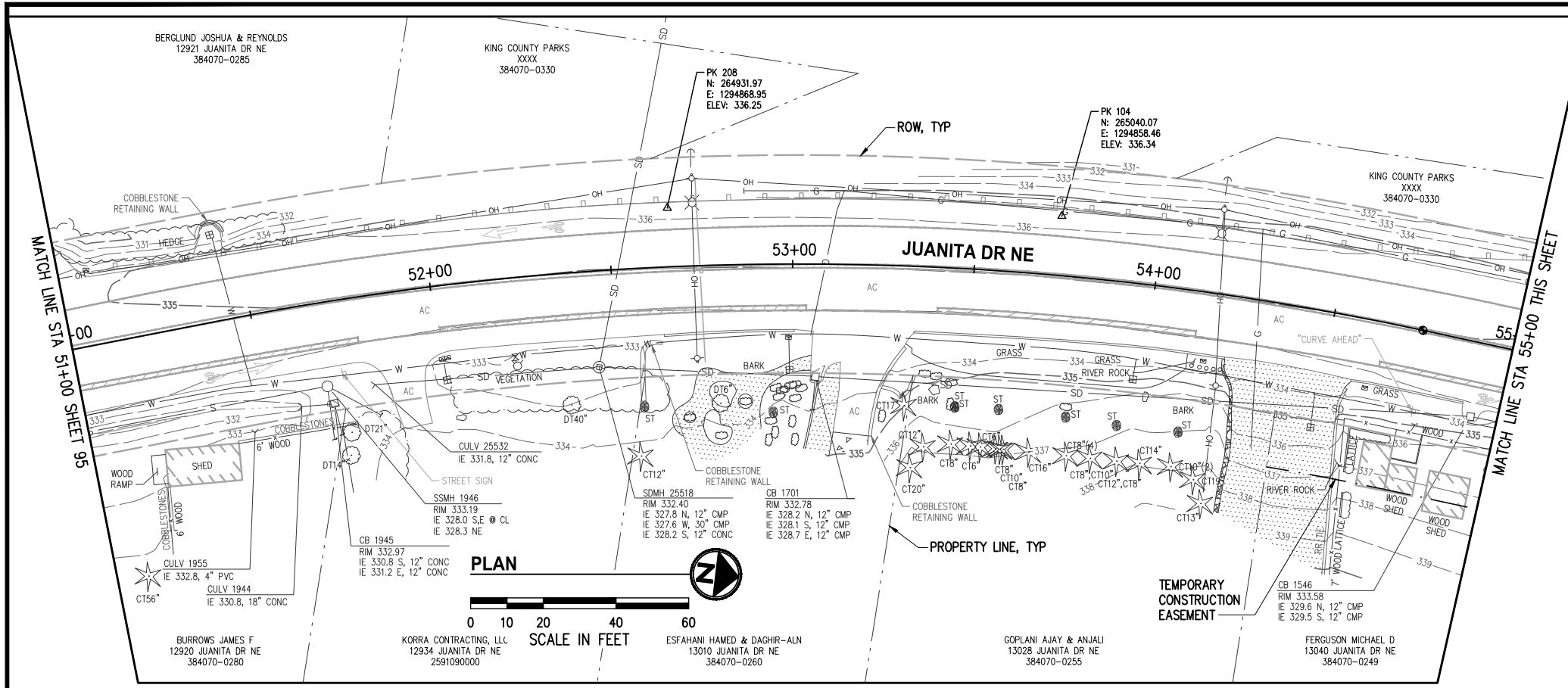
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 42+50 TO STA 51+00  
**EXISTING CONDITIONS & POTHOLE PLAN**

REFERENCE SHEET NO.
SHEET 95 OF 161 SHEETS

September 16, 2023 - 8:00 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065EXCOND02.DWG - Layout Name: EC (05) STA 51+00 TO STA 59+00



**NOTES**

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.  
  
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
3. FIELD SURVEY: KPG, OCTOBER, NOVEMBER, DECEMBER 2019. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

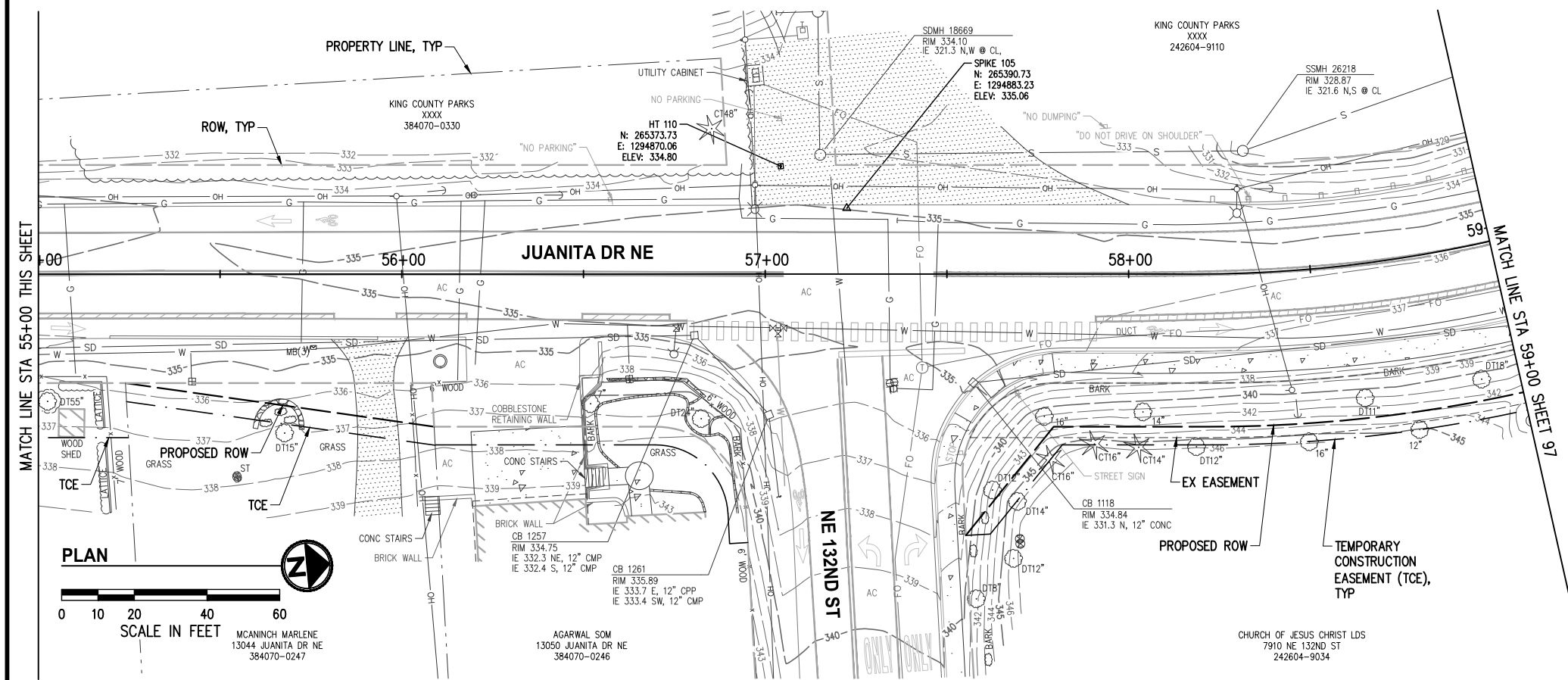
**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

NAVD 88.

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

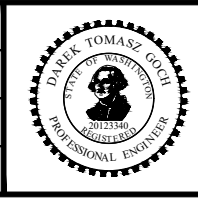


DATE	NO.	REVISION	BY



UPI NO.:  
SURVEY NO.:  
HORZ. DATUM:  
WSPCS, N ZONE, NAD 83/11  
DESIGNED BY:  
DG

FED. AID PROJ. NO.:  
FIELD BOOK(S):  
VERT. DATUM:  
NAVD 88  
DRAWN BY:  
DG



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DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
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FUNDING NO. 19065

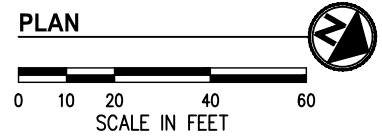
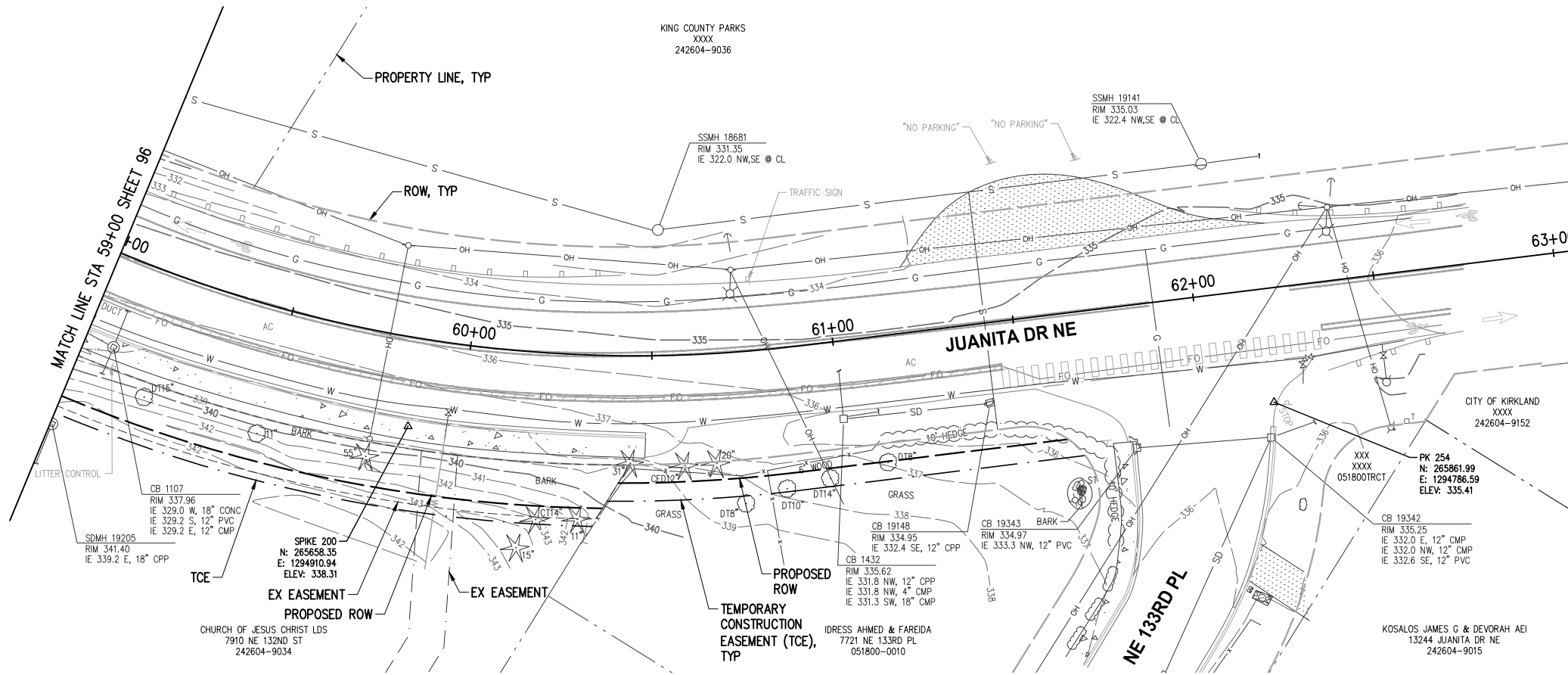
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 51+00 TO STA 59+00  
**EXISTING CONDITIONS & POTHOLES PLAN**

REFERENCE SHEET NO.

SHEET	96
OF	161
SHEETS	



September 16, 2023 - 8:00 PM - DAREK GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\EXCOND02.DWG - Layout Name: EC (06) STA 59+00 TO STA 63+00



**NOTES**

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.  
  
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
3. FIELD SURVEY: KPG, OCTOBER, NOVEMBER, DECEMBER 2019. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

**VERTICAL DATUM**

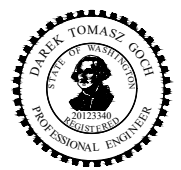
NAVD 88.

**NOTE:**  
POTHOLE DATA TO BE PROVIDED NEXT SUBMITTAL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 59+00 TO STA 63+00  
**EXISTING CONDITIONS & POTHOLE PLAN**

REFERENCE SHEET NO.
SHEET 97 OF 161 SHEETS

September 16, 2023 - 8:00 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065DET02\_COK.DWG - Layout Name: COK DET01

LAST REVISED: 07/2021

**UNPAVED AREAS**

**PAVED AREAS**

**NOTES:**

- MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE  
 \* 30" FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.  
 \* OD PLUS 16" FOR PIPE LARGER THAN 12" NOMINAL DIAMETER.
- WHERE TRENCH IS PERPENDICULAR TO TRAVELED LANES, BACKFILL FULL DEPTH WITH CRUSHED SURFACING-TOP COURSE. WHERE TRENCH IS PARALLEL TO TRAVELED LANES, BACKFILL THE TOP 4" OF TRENCH TO SUBGRADE WITH CRUSHED SURFACING-TOP COURSE. SUITABLE EXCAVATED MATERIAL MAY BE USED PROVIDED 95% MAX. COMPACTION DENSITY (ASTM D1557) CAN BE ACHIEVED.
- SEE OVERLAY POLICY R-7.
- USE OF RECYCLED CONCRETE IS PROHIBITED, UNLESS APPROVED BY THE CITY. SEE POLICY D-16.

CITY OF KIRKLAND	
PLAN NO. CK - D.02	
	STORM TRENCH DETAIL

LAST REVISED: 01/2023

ALIGNMENT OF STRUCTURE TO PIPE FLOWLINE (TYP.)

**NOTES:**

- CONCRETE INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CURB INLET WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX. DIAM. OF 16".
- THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
- CONCRETE INLET FRAME AND GRATES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE SHALL BE INSTALLED WITH FLANGE DOWN.
- APPROVAL BY THE CITY OF KIRKLAND REQUIRED.
- CURB INLET MUST DRAIN TO CATCH BASIN WITH SUMP.
- ALL NEW PVC PIPES SHALL BE INSTALLED WITH SAND COLLARS AND A NON-SHRINK GROUT. JETSET OR SPEED CRETE RED LINE GROUT NOT ALLOWED.
- MINIMUM 10' FROM ADJACENT TREES, UNLESS OTHERWISE APPROVED.

CITY OF KIRKLAND	
PLAN NO. CK - D.06	
	CURB INLET

LAST REVISED: 01/2023

ALIGNMENT OF STRUCTURE TO PIPE FLOWLINE (TYP.)

**NOTES:**

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
- CATCH BASIN FRAME AND GRATES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE SHALL BE INSTALLED WITH FLANGE DOWN.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
- ACCEPTABLE PIPE SIZES ARE 8", 12" OR 15". 6" PIPE IS ONLY ACCEPTABLE ON PRIVATE SYSTEMS.
- ROUND SOLID LIDS REQUIRED WHENEVER CATCH BASIN DOES NOT COLLECT SURFACE WATER. SEE CK-D.18 AND CK-D.18A FOR REFERENCE.
- ROUND CONCRETE RISERS ARE REQUIRED FOR ROUND SOLID LOCKING LIDS.
- ALL NEW PVC PIPES SHALL BE INSTALLED WITH SAND COLLARS AND A NON-SHRINK GROUT. JETSET OR SPEED CRETE RED LINE GROUT NOT ALLOWED.
- 1", 2", AND 4" RISERS ACCEPTED AS NEEDED.
- MINIMUM 10' FROM ADJACENT TREES, UNLESS OTHERWISE APPROVED.
- CLEAN SURFACE AND BOTTOM AREA. PROVIDE UNIFORM CONTACT. THE SURFACE AREA OF THE BASE SECTION MUST BE MORTARED TO THE BOTTOM AREA OF THE RISER SECTION.

CITY OF KIRKLAND	
PLAN NO. CK - D.07	
	CATCH BASIN TYPE 1

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: COK	DRAWN BY: COK
9/2023	9/2023



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DEPARTMENT OF PUBLIC WORKS  
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(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 19065


**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.
SHEET 98 OF 161 SHEETS

September 16, 2023 - 8:00 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065DET02\_COK.DWG - Layout Name: COK DET02

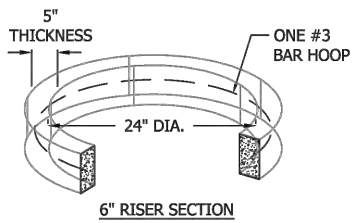
LAST REVISED: 07/2021



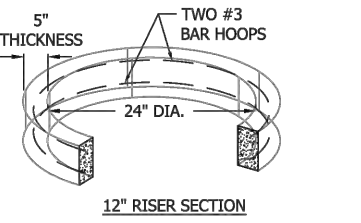
**FRAME AND GRATE**  
(SEE STANDARD DETAILS  
D.18 AND D.18A)

**NOTES:**

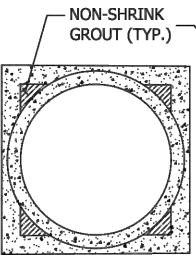
- GROUT SHALL BE APPLIED BETWEEN ALL MATING SURFACES TO ENSURE A WATER TIGHT SEAL AND STRONG BOND.
- COMMERCIALLY AVAILABLE CONVERTER FROM RECTANGULAR STRUCTURE TO CIRCULAR RISER MAY BE USED IF APPROVED BY PUBLIC WORKS DEPARTMENT.
- 1", 2", AND 4" RISERS ACCEPTED AS NEEDED.



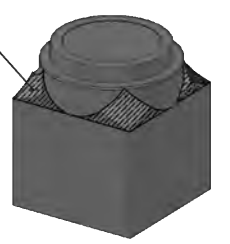
**6" RISER SECTION**



**12" RISER SECTION**



**TRANSITION DETAIL  
2-D PLAN VIEW**

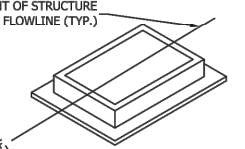


**TRANSITION DETAIL  
3-D CONCEPTUAL  
VIEW**

CITY OF KIRKLAND	
PLAN NO. CK - D.07A	
CIRCULAR RISER AND TRANSITION FOR TYPE 1 AND 1-L CB	

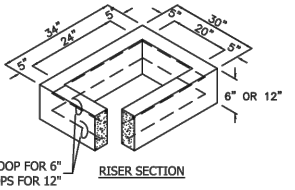
LAST REVISED: 01/2023

**ALIGNMENT OF STRUCTURE TO PIPE FLOWLINE (TYP.)**

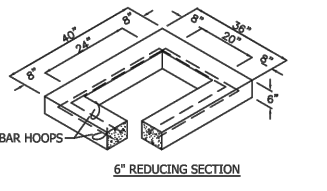


**FRAME AND GRATE (SEE APPLICABLE  
STANDARD DETAILS CK-D.11 THROUGH D.16)**

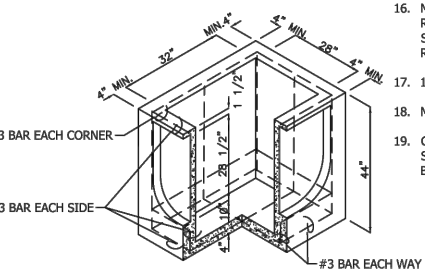
**RISER SECTION**



**6" REDUCING SECTION**



**PRECAST BASE SECTION (MEASUREMENT AT THE TOP OF THE BASE)**



**NOTES:**

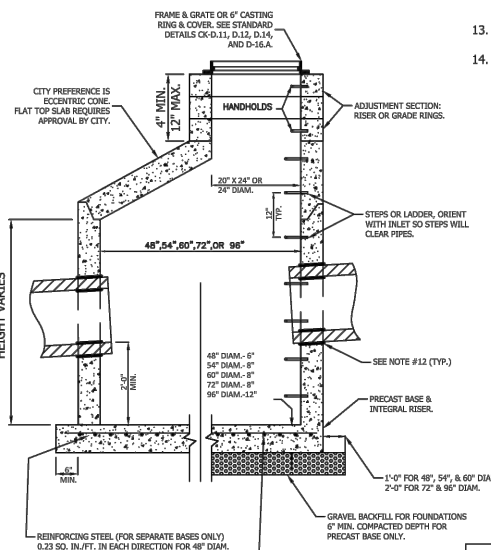
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
- KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAX. DIAM. OF 28". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE SHALL BE INSTALLED WITH FLANGE DOWN.
- MAX. DEPTH FROM FINISHED GRADE TO PIPE INVERT SHALL BE 5'-0".
- EDGE OF REDUCING SECTION OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
- ACCEPTABLE PIPE SIZES ARE 8", 12", 15" OR 18". 6" PIPE IS ONLY ACCEPTABLE ON PRIVATE SYSTEMS.
- ROUND SOLID LOCKING LIDS REQUIRED WHENEVER CATCH BASIN DOES NOT COLLECT SURFACE WATER, OR WHEN LOCATED IN SIDEWALK AND PLANTER AREAS. SEE CK-D.18 AND CK-D.18A FOR REFERENCE.
- ROUND CONCRETE RISERS ARE REQUIRED FOR ROUND SOLID LOCKING LIDS.
- ALL NEW PVC PIPES SHALL BE INSTALLED WITH SAND COLLARS AND A NON-SHRINK GROUT. JETSET OR SPEED CRETE RED LINE GROUT NOT ALLOWED.
- MAXIMUM RISE OF 20" X 24" RISER THROAT SHALL BE 12". IF MORE RISE IS NEEDED IT SHALL BE PROVIDED WITH AN ADDITIONAL RISER SECTION(S) BENEATH THE REDUCING SLAB, IF REDUCING SLAB IS REQUIRED.
- 1", 2", AND 4" RISERS ACCEPTED AS NEEDED.
- MINIMUM 10' FROM ADJACENT TREES, UNLESS OTHERWISE APPROVED.
- CLEAN SURFACE AND BOTTOM AREA. PROVIDE UNIFORM CONTACT. THE SURFACE AREA OF THE BASE SECTION MUST BE MORTARED TO THE BOTTOM AREA OF THE RISER SECTION.

CITY OF KIRKLAND	
PLAN NO. CK - D.08	
CATCH BASIN TYPE 1-L	

LAST REVISED: 01/2023

**NOTES:**

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M199) AND ASTM C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
- HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE STD. DTL. NO. CK-D.12, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2" MIN. UNLESS KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
- MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
- FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE STD. DTL. NO. CK-D.12 AND CK-S.14.
- ALL MANHOLE JOINTS SHALL USE A CONFINED RUBBER GASKET AND GROUTED (INSIDE AND OUT) TO MEET ASTM C-443 SPECIFICATIONS.
- ROUND SOLID LOCKING LIDS REQUIRED WHENEVER CATCH BASIN DOES NOT COLLECT SURFACE WATER, OR WHEN LOCATED IN SIDEWALK AND PLANTER AREAS. SEE CK-D.18, CK-D.18A, AND CK-D.18B FOR REFERENCE.
- ROUND CONCRETE RISERS ARE REQUIRED FOR ROUND SOLID LOCKING LIDS.
- ALL NEW PIPES SHALL BE INSTALLED WITH EITHER A KOR-N-SEAL BOOT, OR SAND COLLARS AND A NON-SHRINK GROUT. JETSET OR SPEED CRETE RED LINE GROUT NOT ALLOWED.
- MINIMUM 10' FROM ADJACENT TREES, UNLESS OTHERWISE APPROVED.
- ALL RISERS WILL BE WET SET IN GROUT, AND SMOOTHED INSIDE AND OUT PRIOR TO BEING BURIED.



**ACCEPTABLE PIPE SIZES:**

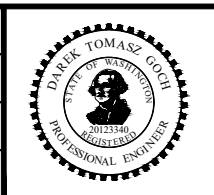
Basin Type	6"	8"	12"	15"	18"	24"	30"	36"	48"
Type II-48" CB	X	X	X	X	X	X	X	X	X
Type II-54" CB	X	X	X	X	X	X	X	X	X
Type II-60" CB	X	X	X	X	X	X	X	X	X
Type II-72" CB	X	X	X	X	X	X	X	X	X
Type II-96" CB	X	X	X	X	X	X	X	X	X

CITY OF KIRKLAND	
PLAN NO. CK - D.09	
CATCH BASIN TYPE 2 48", 54", 60", 72", 96"	

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: COK	DRAWN BY: COK
9/2023	9/2023



**KPG PSOMAS**

**100% REVIEW  
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**CITY OF KIRKLAND  
WASHINGTON**

CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov

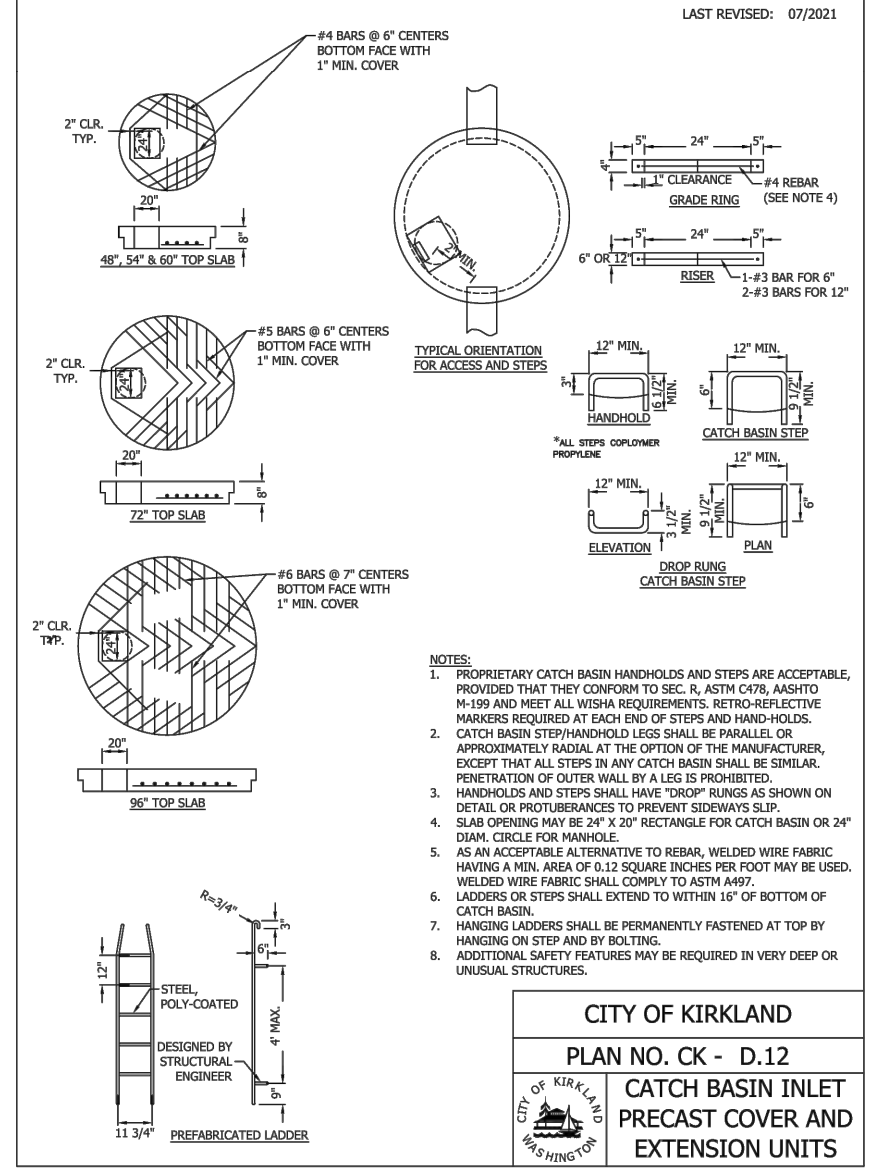
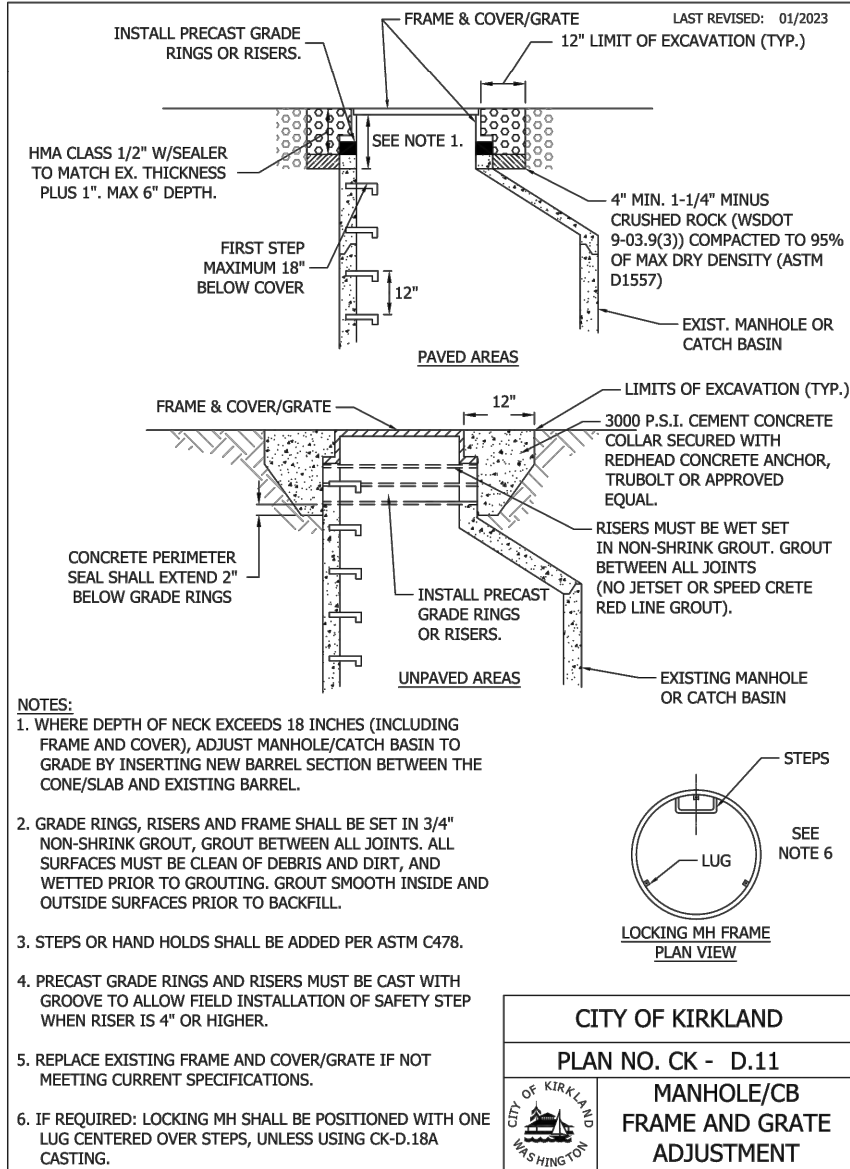
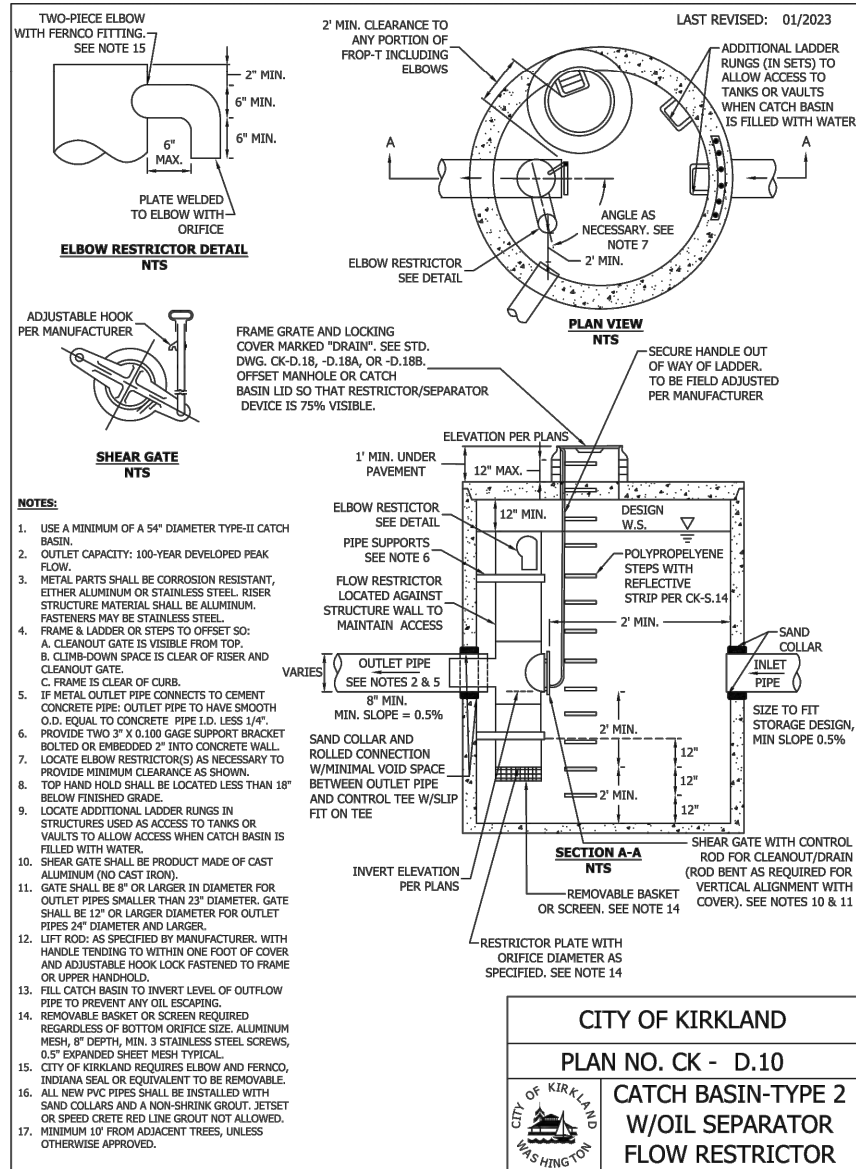
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.
SHEET 99 OF 161 SHEETS

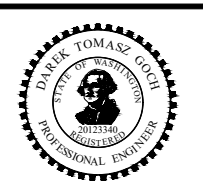
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DESIGNED BY: COK	9/2023
DRAWN BY: COK	9/2023



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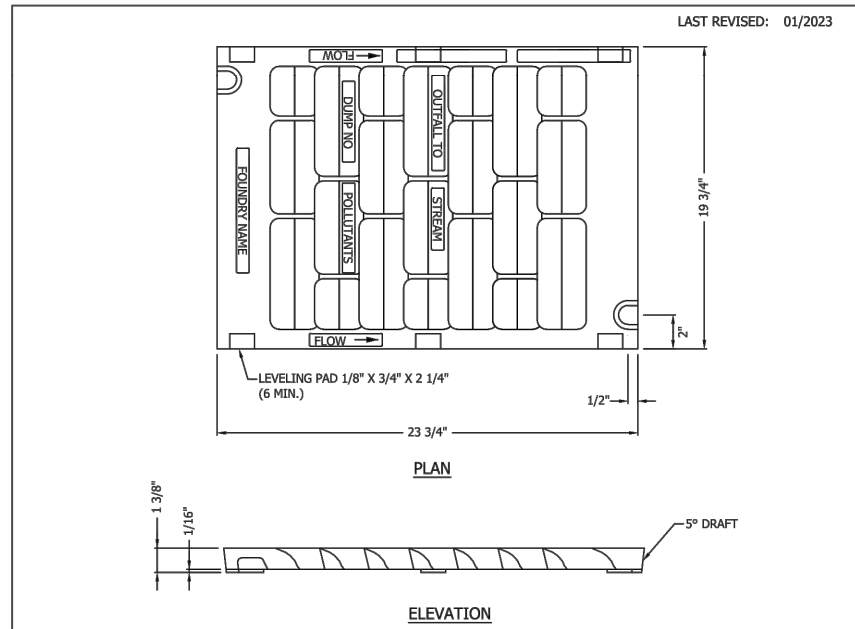
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND

**STANDARD DETAILS**

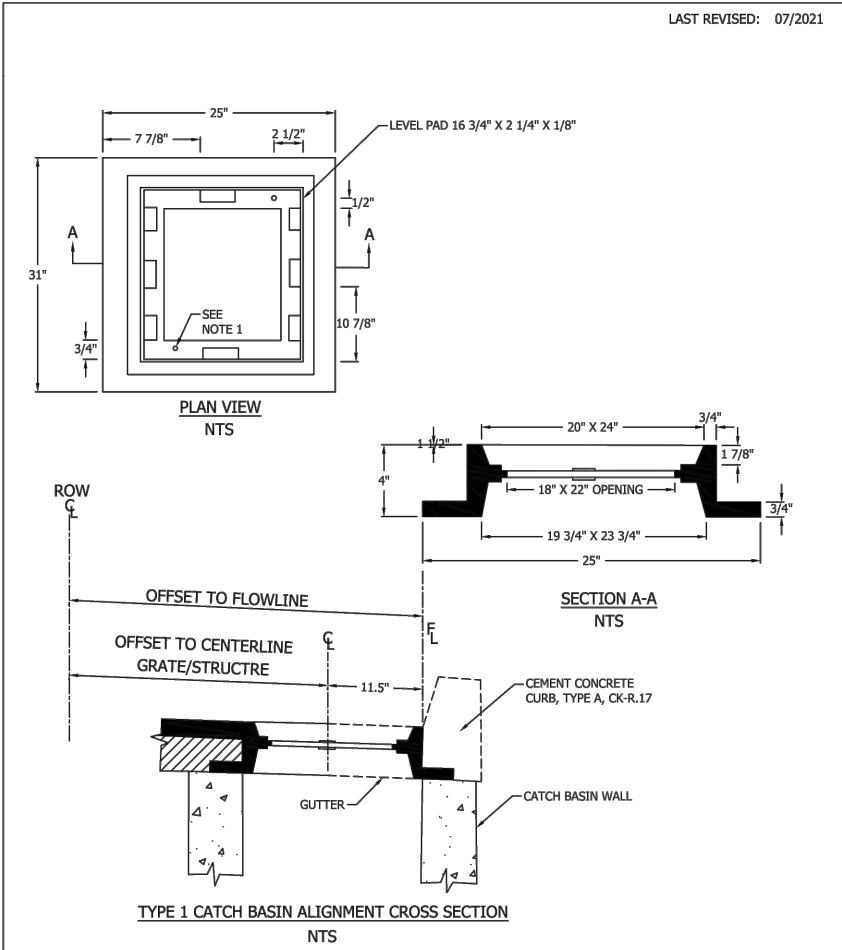
REFERENCE SHEET NO.
SHEET 100 OF 161 SHEETS

September 16, 2023 - 8:00 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\DET02\_COK.DWG - Layout Name: COK DET04



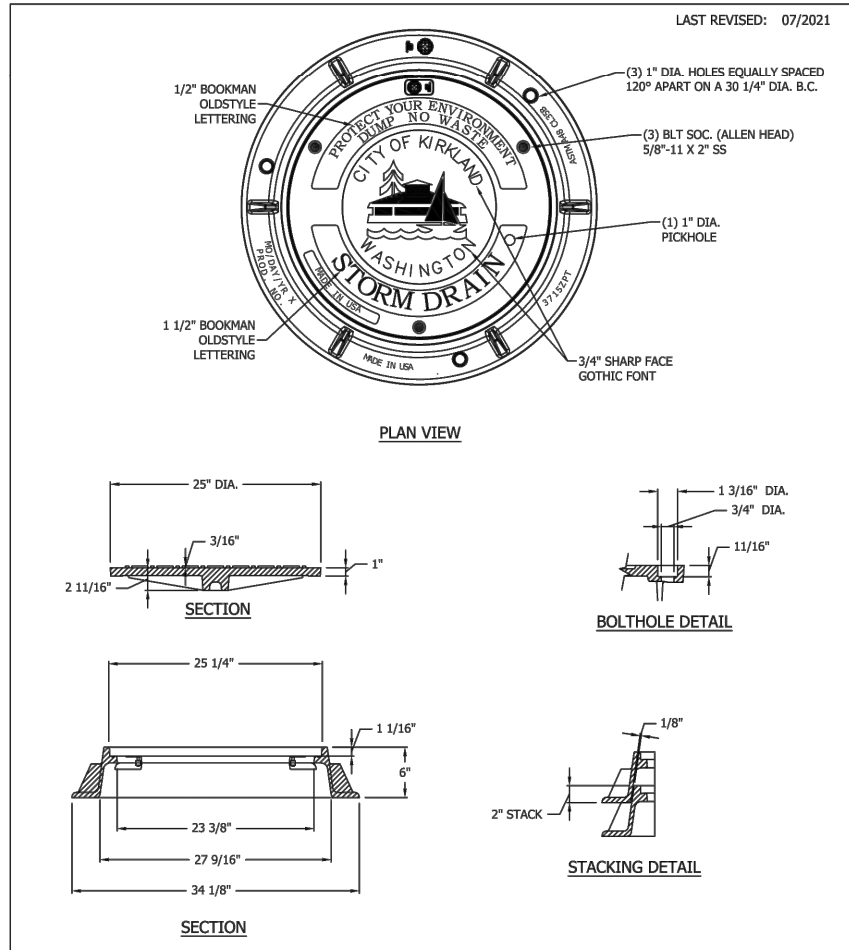
- NOTES:**
- USE EAST JORDAN IRON WORKS OR EQUAL TWO BOLT LOCK CAPABILITY THAT MEETS WSDOT SPEC. MANUFACTURER SUBJECT TO APPROVAL BY CITY.
  - USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. FRAMES SHALL INCLUDE THREADS AS DROP-OUT REPLACEABLE NUTS.
  - MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
  - "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
  - SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS.
  - WELDING IS NOT PERMITTED.
  - EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
  - USE A BI-DIRECTIONAL VANED GRATE AT ANY LOW POINT OR WHEN FLOWS COME FROM MULTIPLE DIRECTIONS.
  - NO EXPANSION MATERIAL IN THE FLOW LINE, WHERE CONCRETE COMES TO FRAME.
  - FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.
  - MUST BE MADE IN USA.

**CITY OF KIRKLAND**  
**PLAN NO. CK - D.14**  
**VANED GRATE**  
**FOR CATCH BASIN**  
**AND INLET**



- NOTE:**
- FRAME MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
  - SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
  - BACK OF FRAME SHALL BE IN FLOWLINE OF GUTTER.
  - MUST BE MADE IN THE USA.

**CITY OF KIRKLAND**  
**PLAN NO. CK - D.16A**  
**STANDARD FRAME**  
**WITH CURB**  
**INSTALLATION**



- NOTES:**
- COVERS SHALL BE GRAY IRON, LOCKING, WITH A MINIMUM WEIGHT OF 141 LBS.
  - MINIMUM WEIGHT OF FRAME SHALL BE 134 LBS.
  - PRODUCT SUPPLIED BY EJ GROUP, INC., APPROVED EQUAL.
  - CITY OF KIRKLAND LOGO REQUIRED
  - THIS SPEC SHOULD NOT BE USED IN THE ROADWAY.
  - MUST BE MADE IN THE USA.

**CITY OF KIRKLAND**  
**PLAN NO. CK - D.18**  
**24\"/>**

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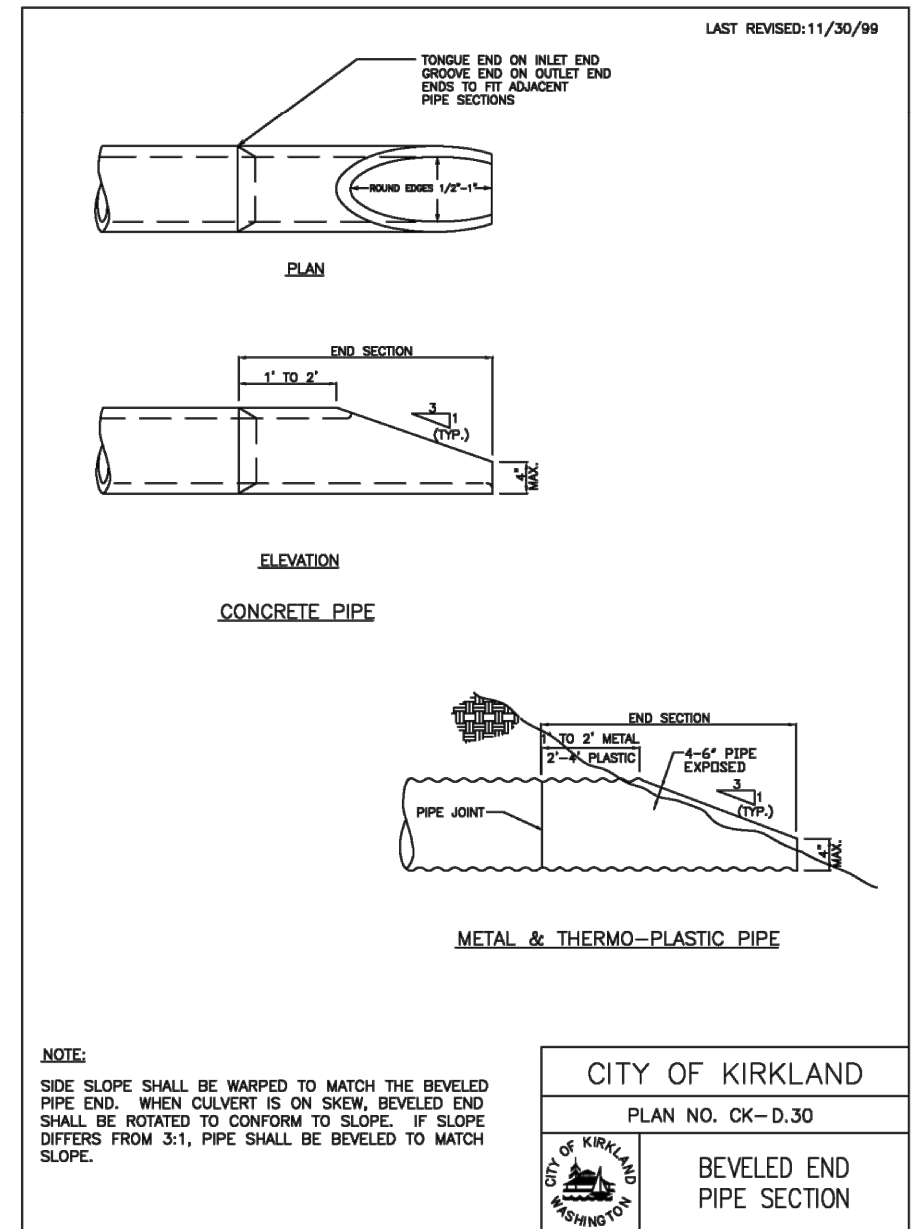
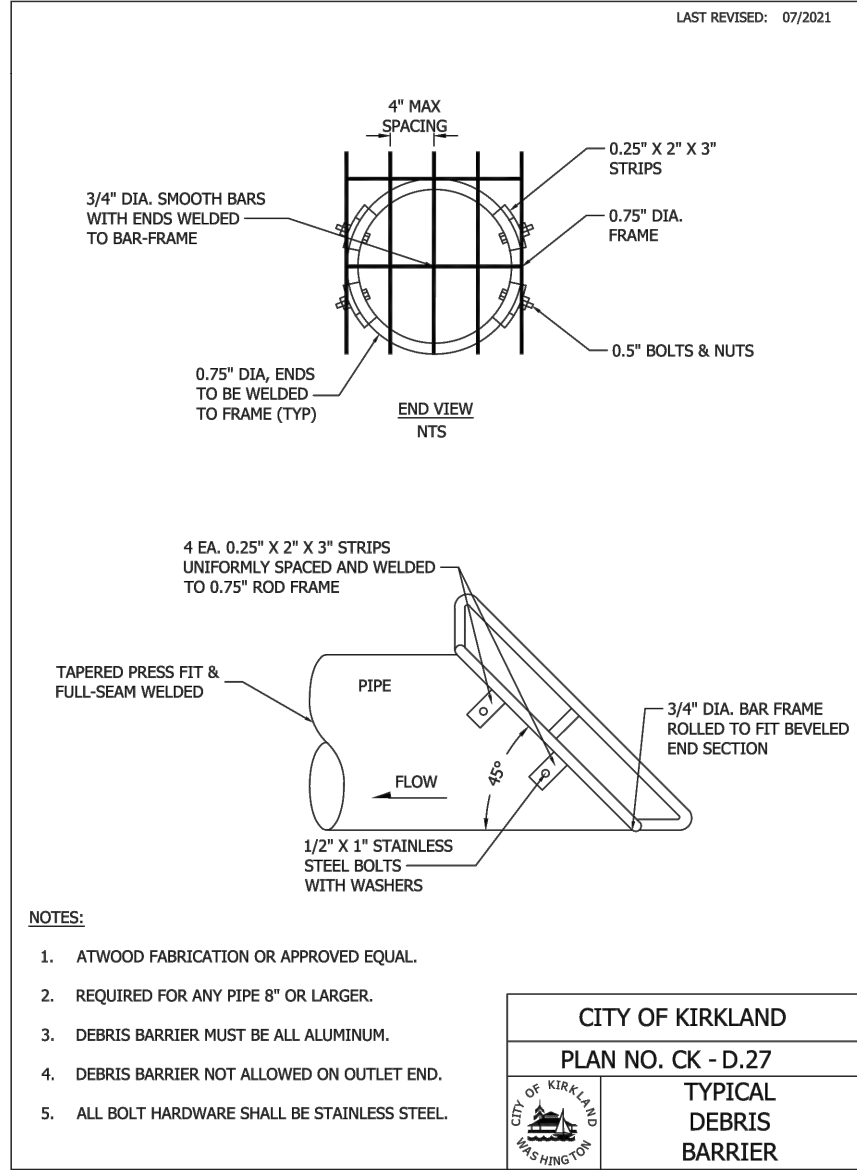
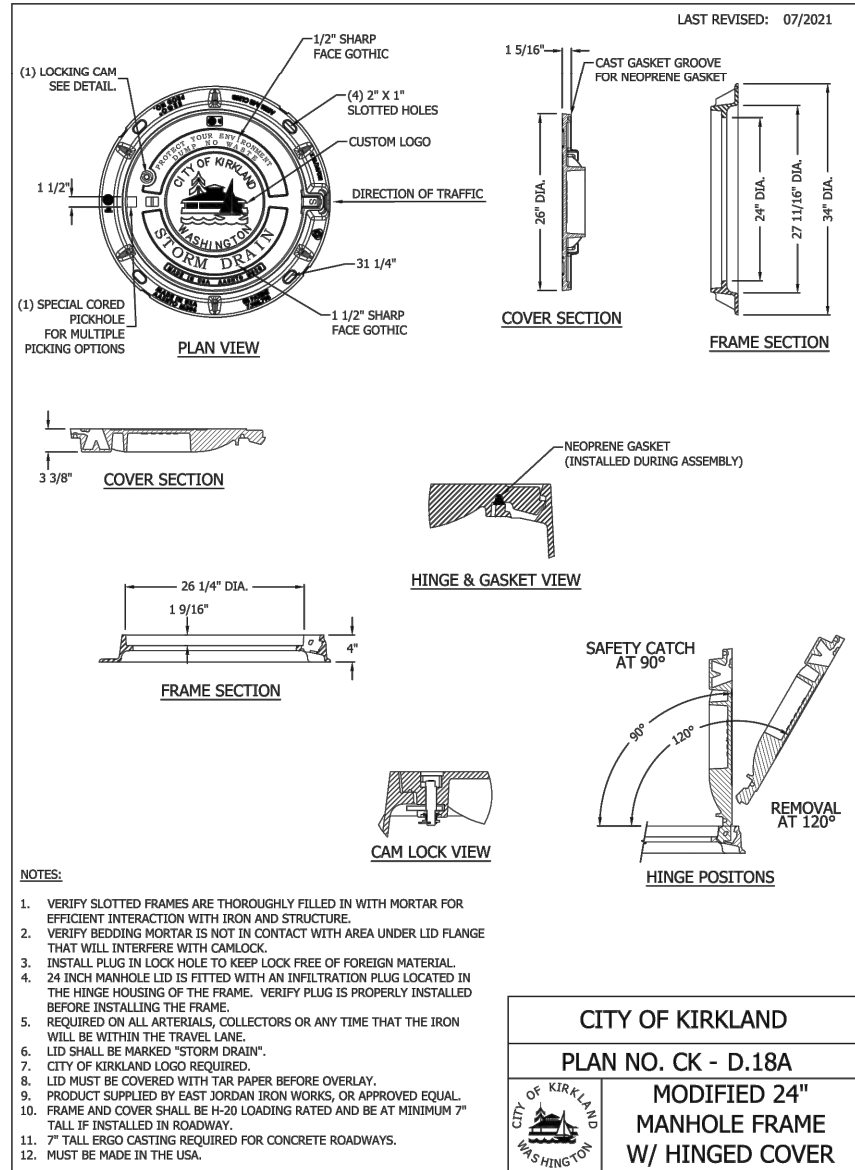
**JUANITA DRIVE MULTIMODAL,**  
**INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.

SHEET  
 101  
 OF  
 161  
 SHEETS

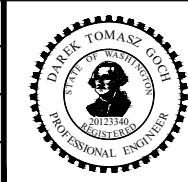
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DESIGNED BY: COK	DRAWN BY: COK
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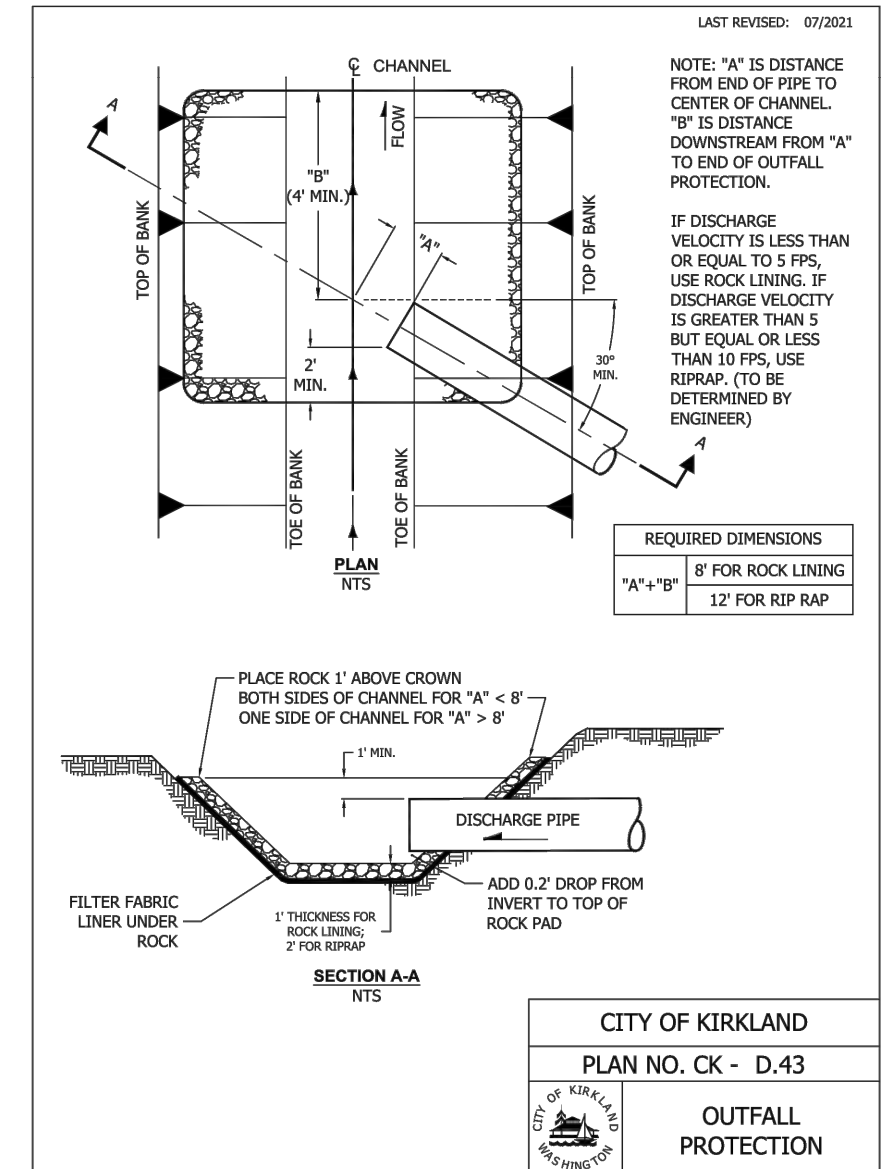
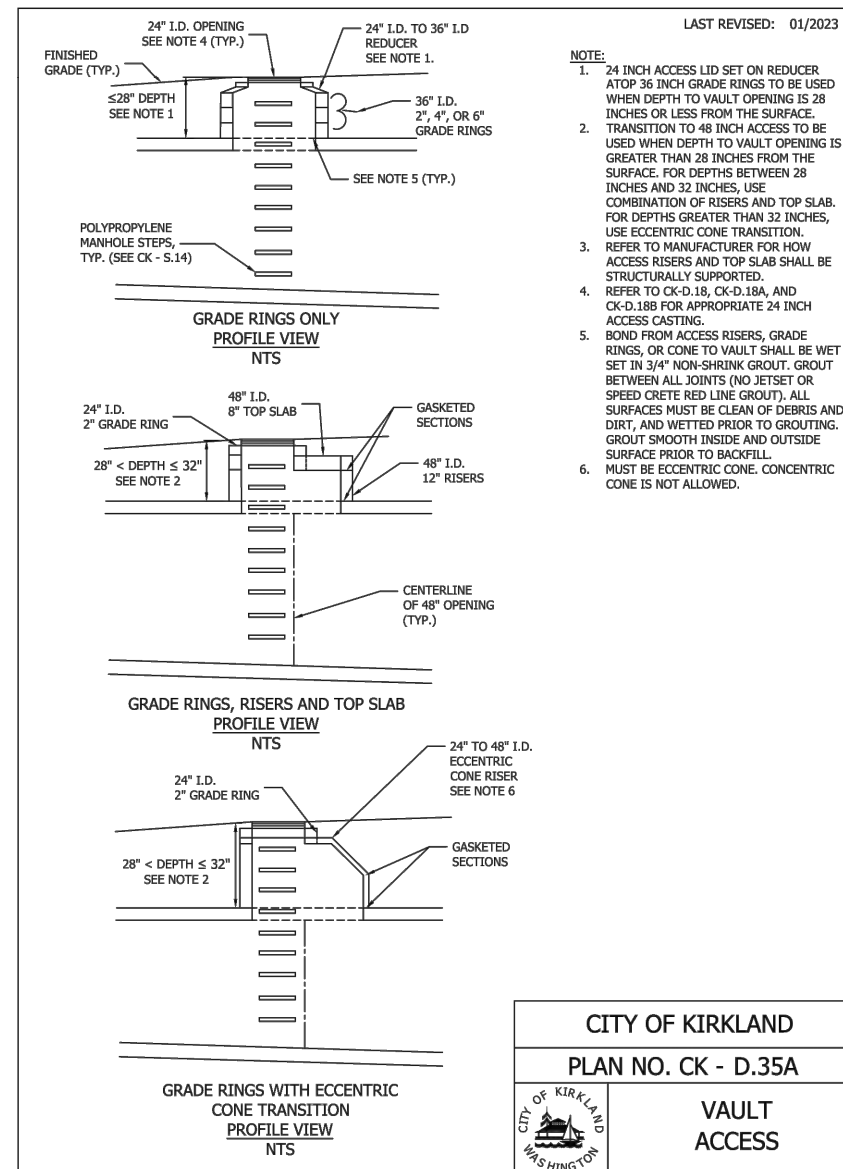
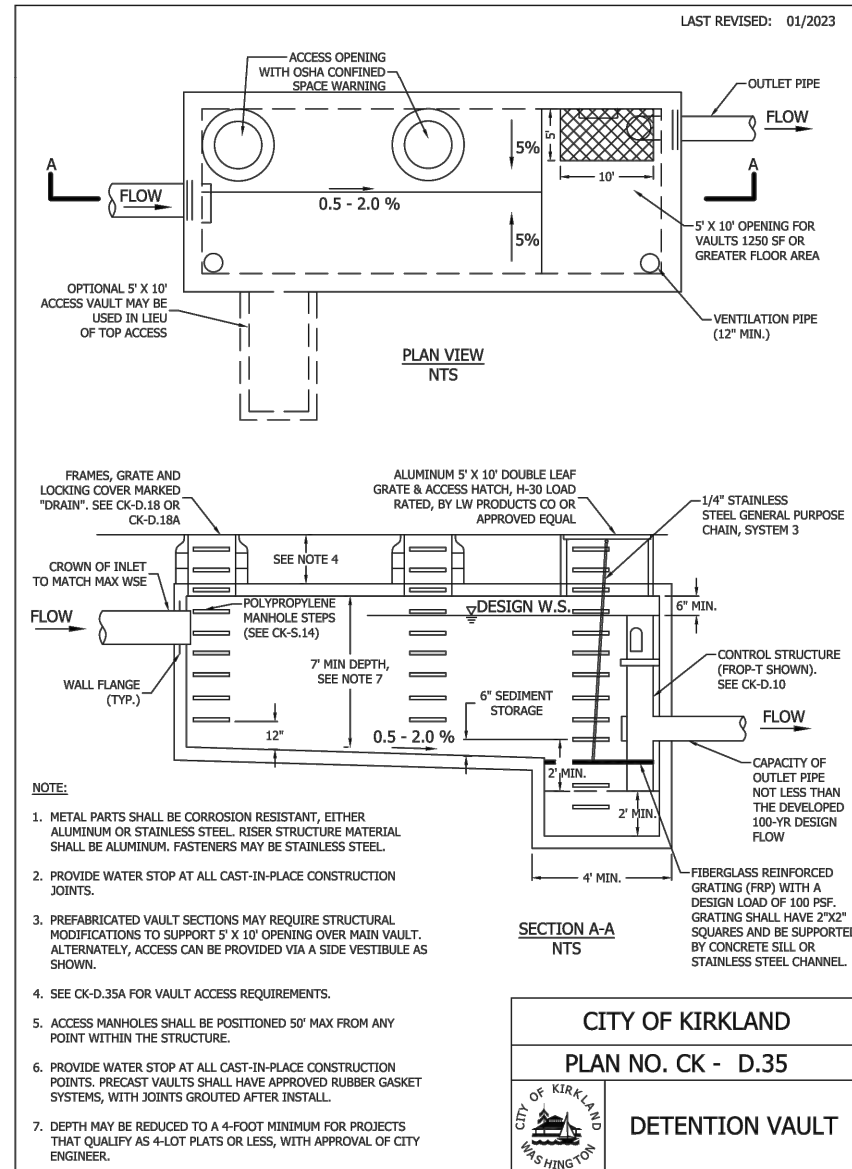
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

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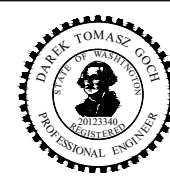


DATE	NO.	REVISION	BY



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DESIGNED BY: COK	9/2023

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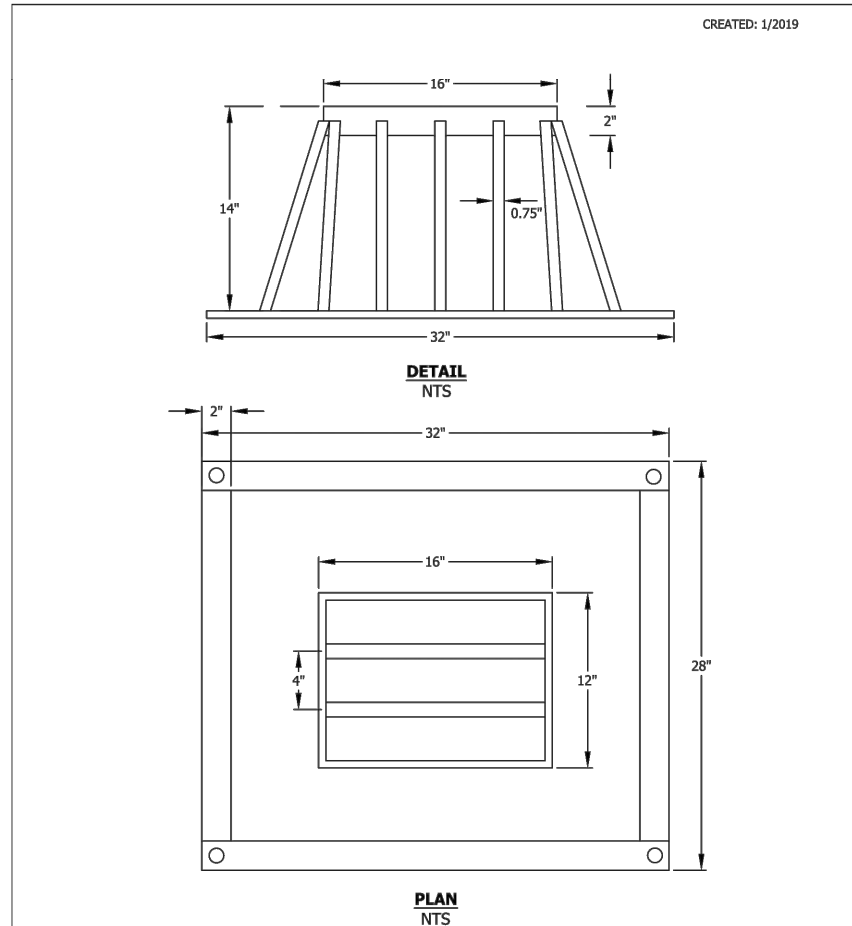
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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
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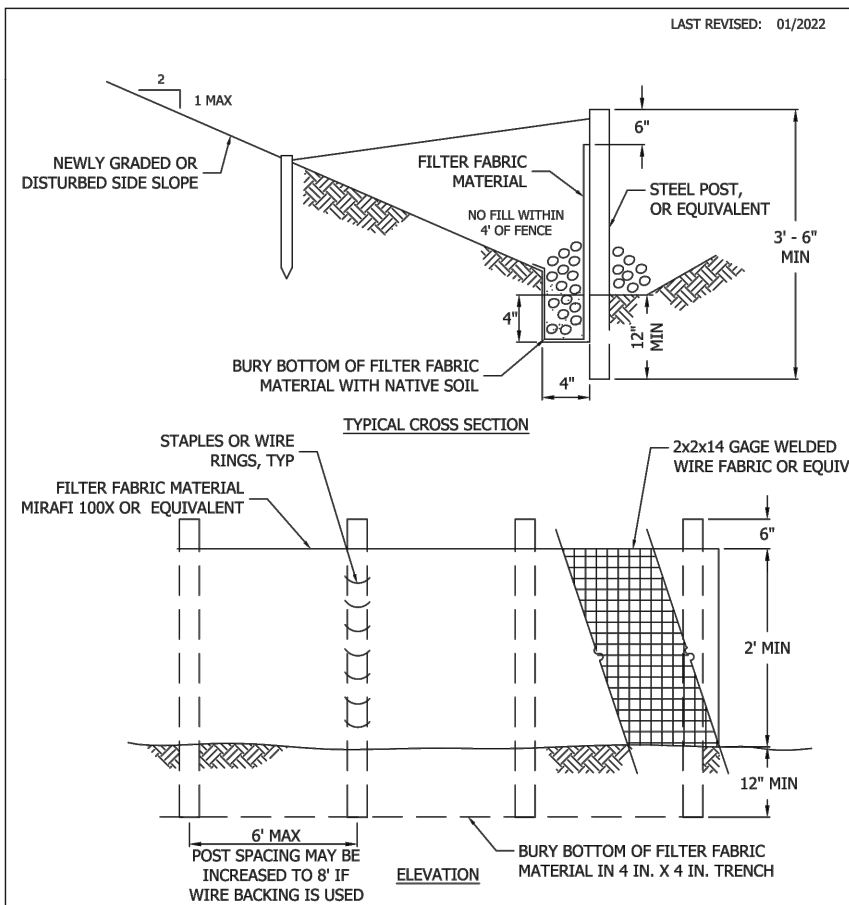
CREATED: 1/2019

- NOTES**
- TO BE PLACED ON TOP OF VERTICAL OVERFLOW STRUCTURES, I.E., WITHIN BIORETENTION CELLS
  - 3/8" x 2 FLAT BAR
  - 3/4" ROUND BAR
  - 4-5/8" HOLE FOR MOUNTING
  - ALL MATERIAL 6061 ALUMINUM
  - MUST BE ANCHORED TO CONCRETE IN REMOVABLE FASHION WITH CORROSION-RESISTANT HARDWARE
  - PRODUCT: ATWOOD FABRICATION OR EQUAL

**CITY OF KIRKLAND**

PLAN NO. CK- D.44

**TYPE 1 CB DEBRIS (BIRD) CAGE**



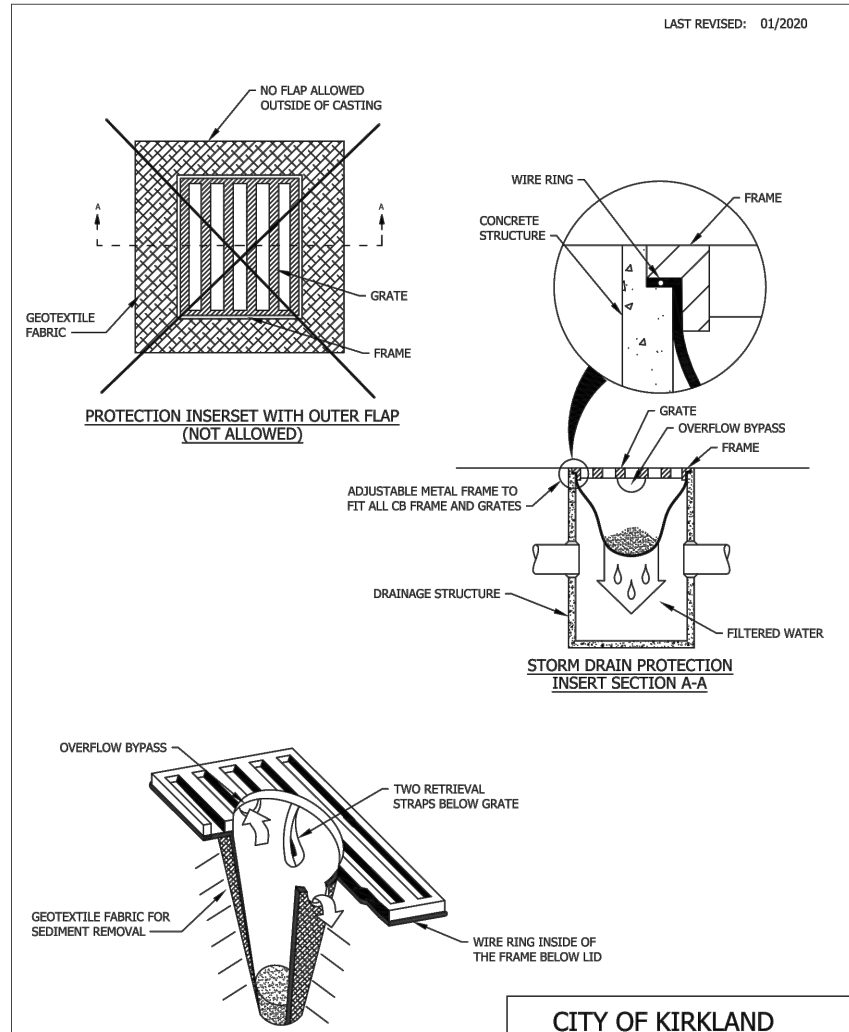
LAST REVISED: 01/2022

- NOTES**
- PREFAB FENCE ALLOWED IF REINFORCED AND APPROVED BY CITY INSPECTOR.
  - FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2:1.
  - JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS AND FENCE.
  - REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.
  - LOCATION OF FENCING SHALL BE AS SHOWN ON APPROVED PLANS OR AS DIRECTED BY THE CITY.
  - MAXIMUM 100' SHEET OR OVERLAND FLOW PATH LENGTH TO SILT FENCE.
  - DO NOT DIRECT FLOWS GREATER THAN 0.5 CFS TO FENCE.
  - SILT FENCE SHOULD NOT BE INSTALLED IN STREAMS OR V-SHAPED DITCHES.
  - FILTER FABRIC SHOULD BE INSTALLED ALONG CONTOURS WHENEVER POSSIBLE.

**CITY OF KIRKLAND**

PLAN NO. CK - E.03

**SILT FENCE**



LAST REVISED: 01/2020

**CITY OF KIRKLAND**

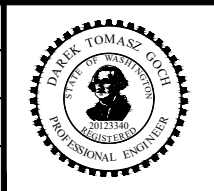
PLAN NO. CK- E.11

**STORM DRAIN PROTECTION INSERT**

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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

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SHEET 104 OF 161 SHEETS



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LAST REVISED: 01/2023

**PLAN**

**ELEVATION**

**MONUMENT CASE AND COVER**

CITY OF KIRKLAND  
PLAN NO. CK-R.03

CITY OF KIRKLAND WASHINGTON  
MONUMENT

CAP DETAIL  
CAP LAYOUT FOR ALL PROJECTS

**NOTES:**

- ALL JOINTS BETWEEN ASPHALT PATCH AND EXISTING PAVEMENT SHALL BE SEALED.
- THE CASTINGS SHALL BE GREY-IRON CASTINGS, ASTM DESIGNATION A-48, CLASS 30B. THE COVER AND SEAT SHALL BE MACHINED SO AS TO HAVE PERFECT CONTACT AROUND THE ENTIRE CIRCUMFERENCE AND FULL WIDTH OF BEARING SURFACE.
- CONCRETE COLLAR REQUIRED IF OUTSIDE OF ASPHALT AREA.
- HMA MUST BE COMPACTED WITH PROCTOR HAMMER (PNEUMATIC BACKFILL COMPACTION TAMPER) IN 3" LIFTS

LAST REVISED: 01/2023

**TYPICAL SECTION FOR CURB & GUTTER, TYPE A**

**JOINT DETAIL**

CITY OF KIRKLAND  
PLAN NO. CK-R.17

CITY OF KIRKLAND WASHINGTON  
CONCRETE CURB AND GUTTER, TYPE "A"

**NOTES:**

- FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE) UNLESS SPECIFIED DIFFERENTLY BY CITY PROJECT ENGINEER.
- CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
- BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.
- SURVEY REQUIRED FOR CURB ALIGNMENT.

LAST REVISED: 02/12/10

**CEMENT CONCRETE PEDESTRIAN CURB**

**CEMENT CONCRETE PEDESTRIAN CURB**

AT SIDEWALK RAMPS & LANDINGS, AND DRIVEWAY ENTRANCES

CITY OF KIRKLAND  
PLAN NO. CK-R.17A

CITY OF KIRKLAND WASHINGTON  
CEMENT CONCRETE PEDESTRIAN CURB

**NOTES:**

- FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION REQUIRED PRIOR TO PLACEMENT OF CONCRETE).
- CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
- BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.
- SEE CK-R.17 FOR CURB EXPANSION AND CONTRACTION JOINT SPACING.

DATE	NO.	REVISION	BY



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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
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REFERENCE SHEET NO.
SHEET 105 OF 161 SHEETS

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LAST REVISED: 01/10/2011

**TYPICAL SECTION FOR VERTICAL CURB**

**JOINT DETAIL**

**NOTES**

- FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE).
- CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
- BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.
- INSTALLATION OF THIS TYPE OF CURB MUST HAVE PRIOR APPROVAL.

CITY OF KIRKLAND	
PLAN NO. CK-R.17C	
	CONCRETE VERTICAL CURB

LAST REVISED: 01/2023

**EXTRUDED ASPHALT CONCRETE CURB**

**EXTRUDED CEMENT CONCRETE CURB**

**NOTES:**

- THE ADHESIVE SHALL MEET THE REQUIREMENTS OF WSDOT SSRBC SECTION 9-26.1 FOR TYPE-II EPOXY BONDING AGENT.
- APPLY SUFFICIENT AMOUNT OF ADHESIVE TO ENSURE SQUEEZE OUT ALONG ALL EDGES.

CITY OF KIRKLAND	
PLAN NO. CK - R.19	
	EXTRUDED CURB

LAST REVISED: 01/2023

**INSTALLATION DETAIL FOR STRAIGHT PRECAST TRAFFIC CURB**

**NOTES:**

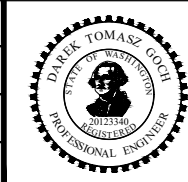
- THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9.26(1) OF THE WSDOT STANDARD SPECIFICATION. USE APPROPRIATE ADHESIVE TYPE FOR EXISTING CONDITIONS.
- MEDIAN CURB SHALL BE PAINTED. PAINT SHALL MEET SECTION 9.34.2 OF THE WSDOT STANDARD SPECIFICATION.

CITY OF KIRKLAND	
PLAN NO. CK-R.19A	
	MEDIAN CURB

DATE	NO.	REVISION	BY



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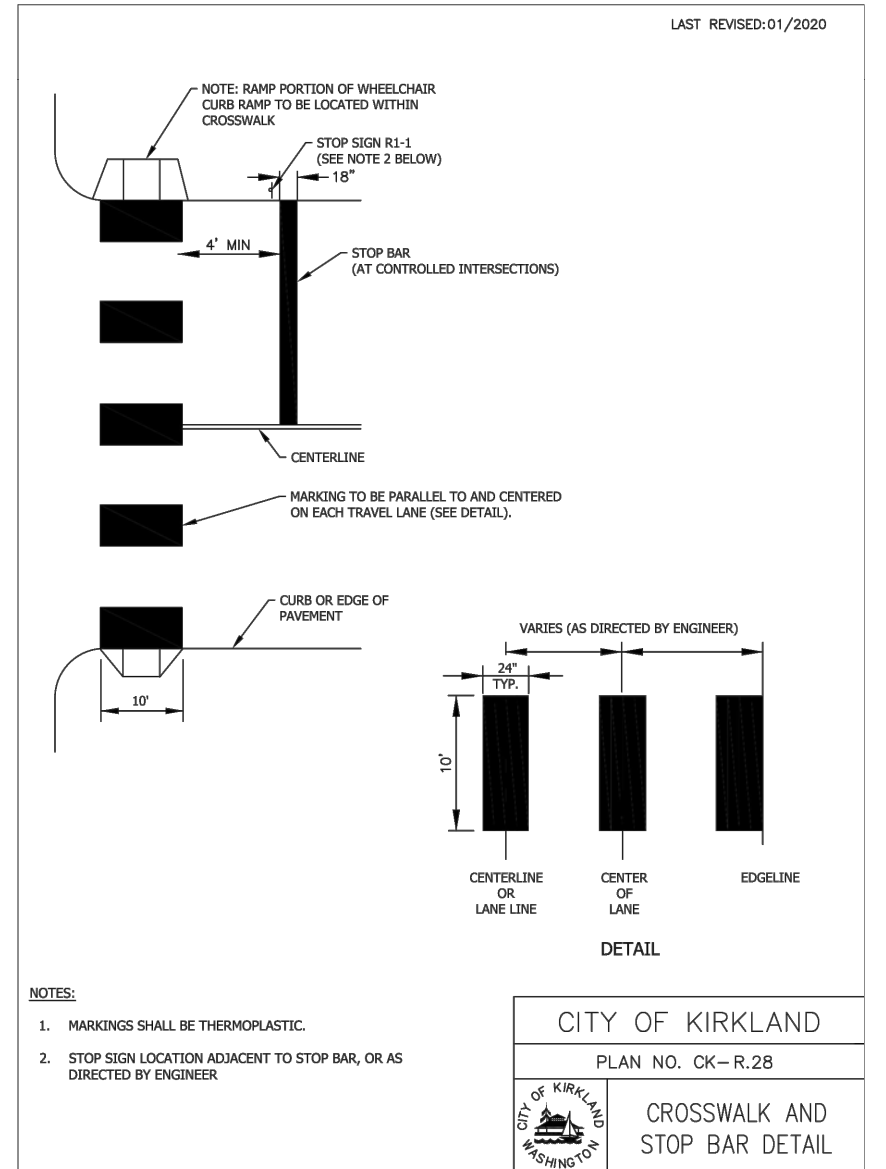
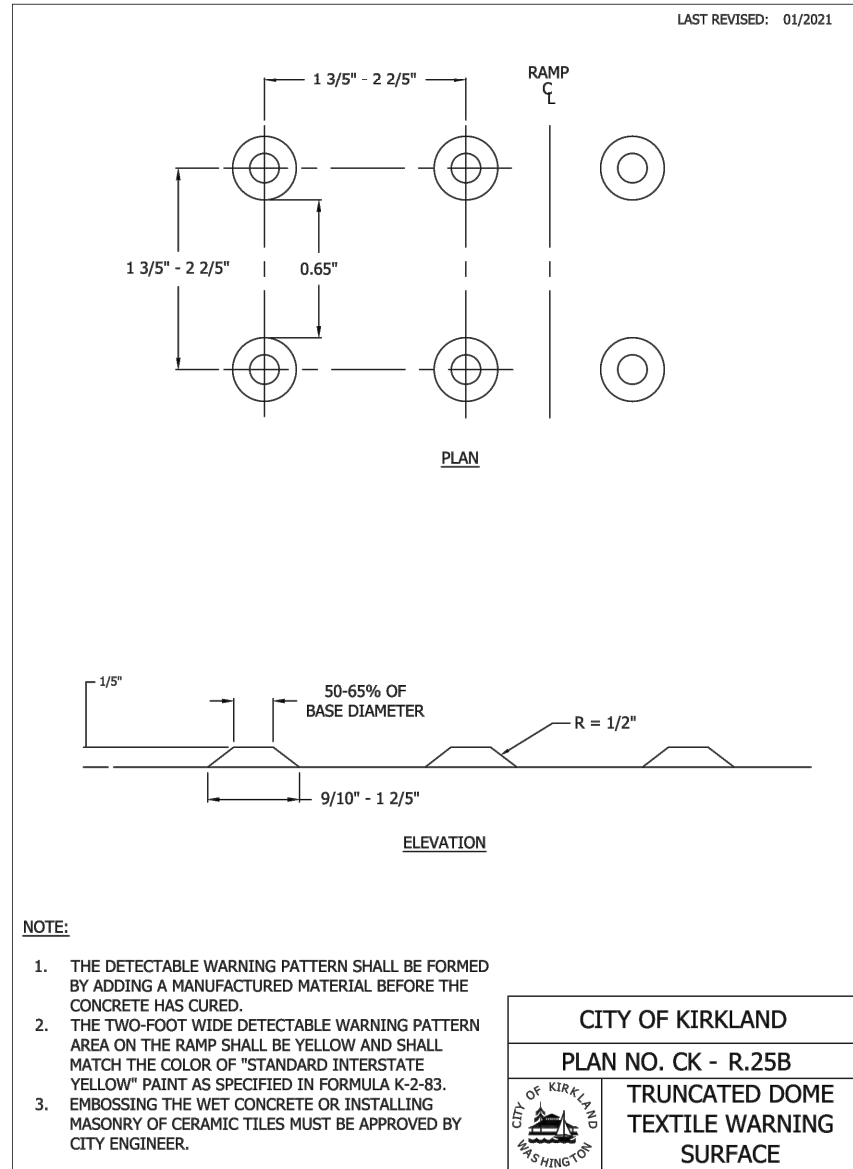
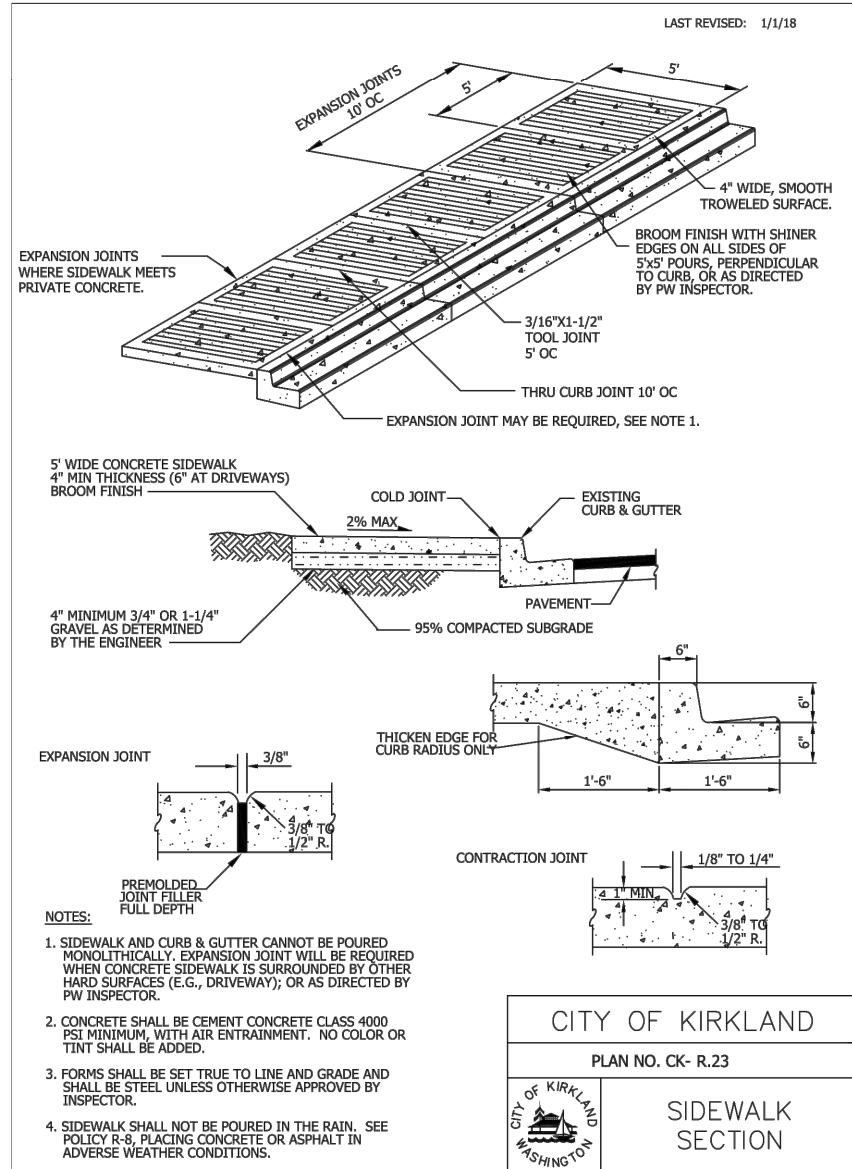
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**JUANITA DRIVE MULTIMODAL,  
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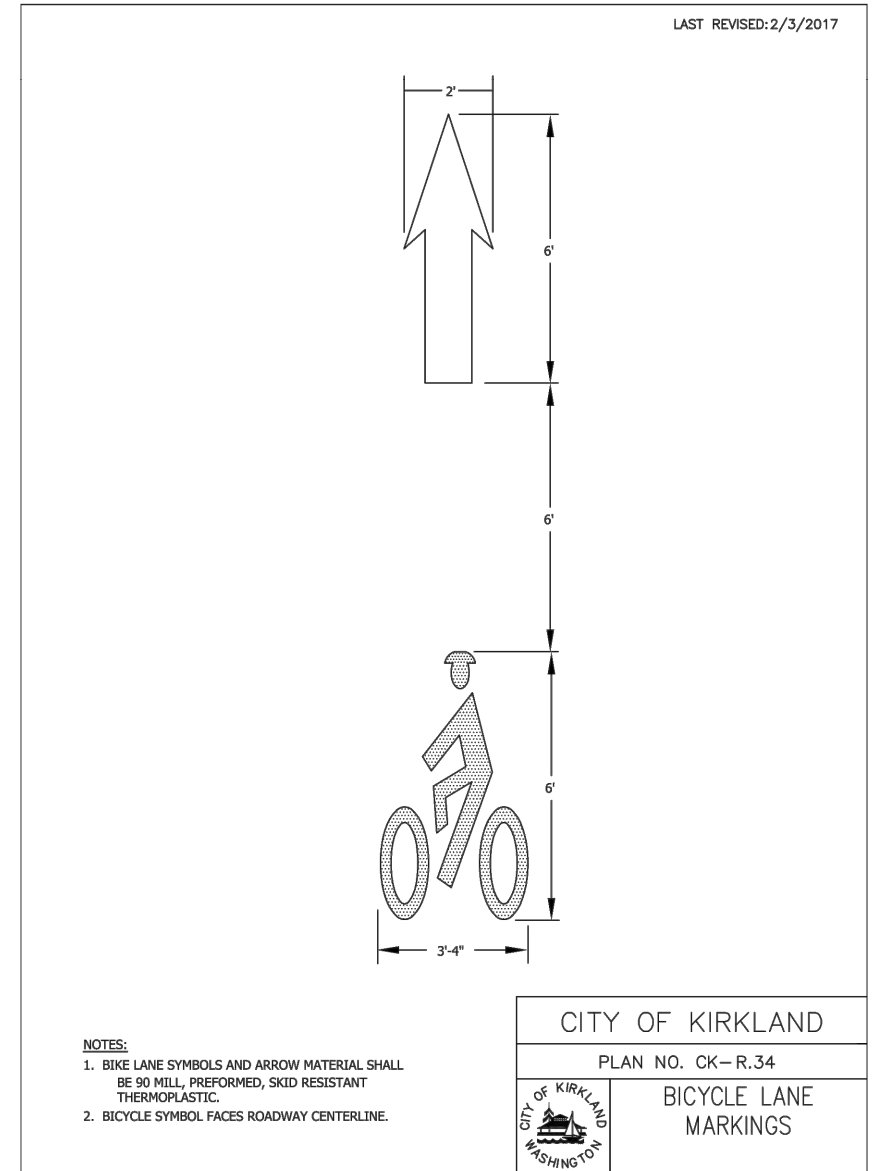
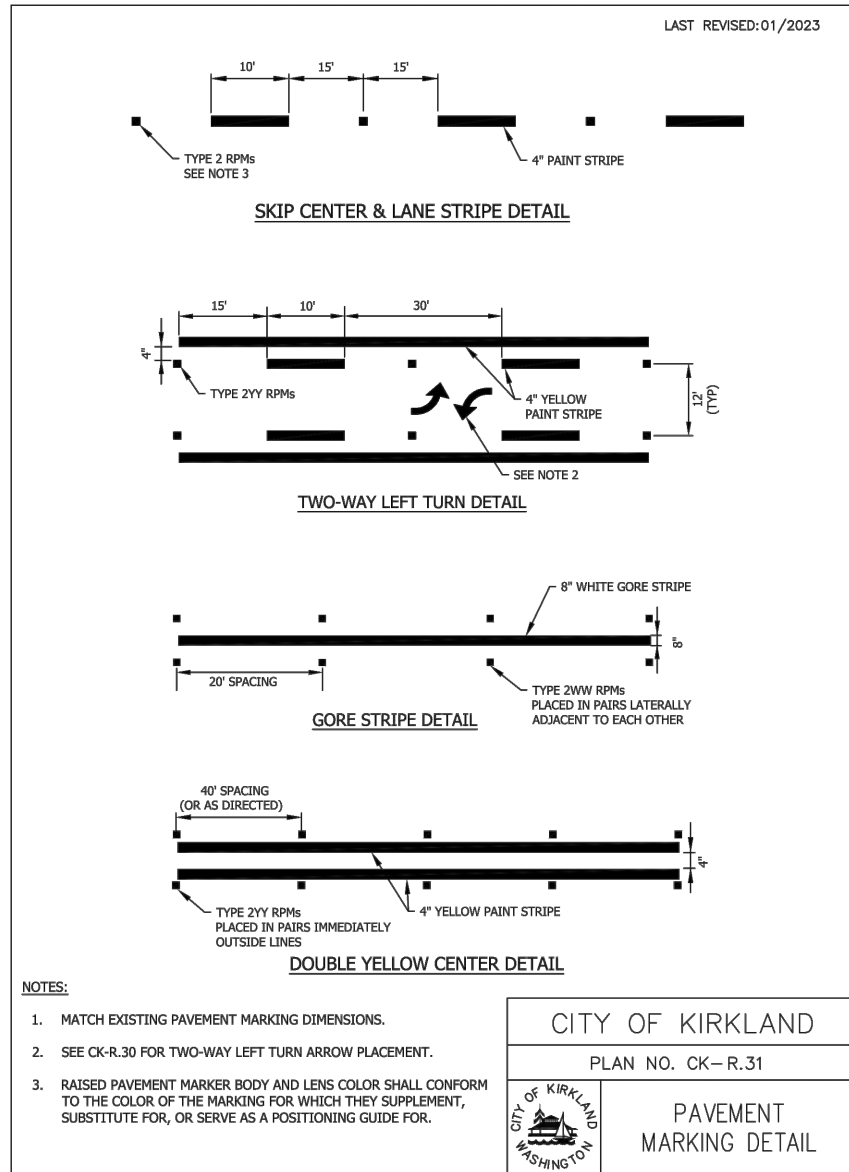
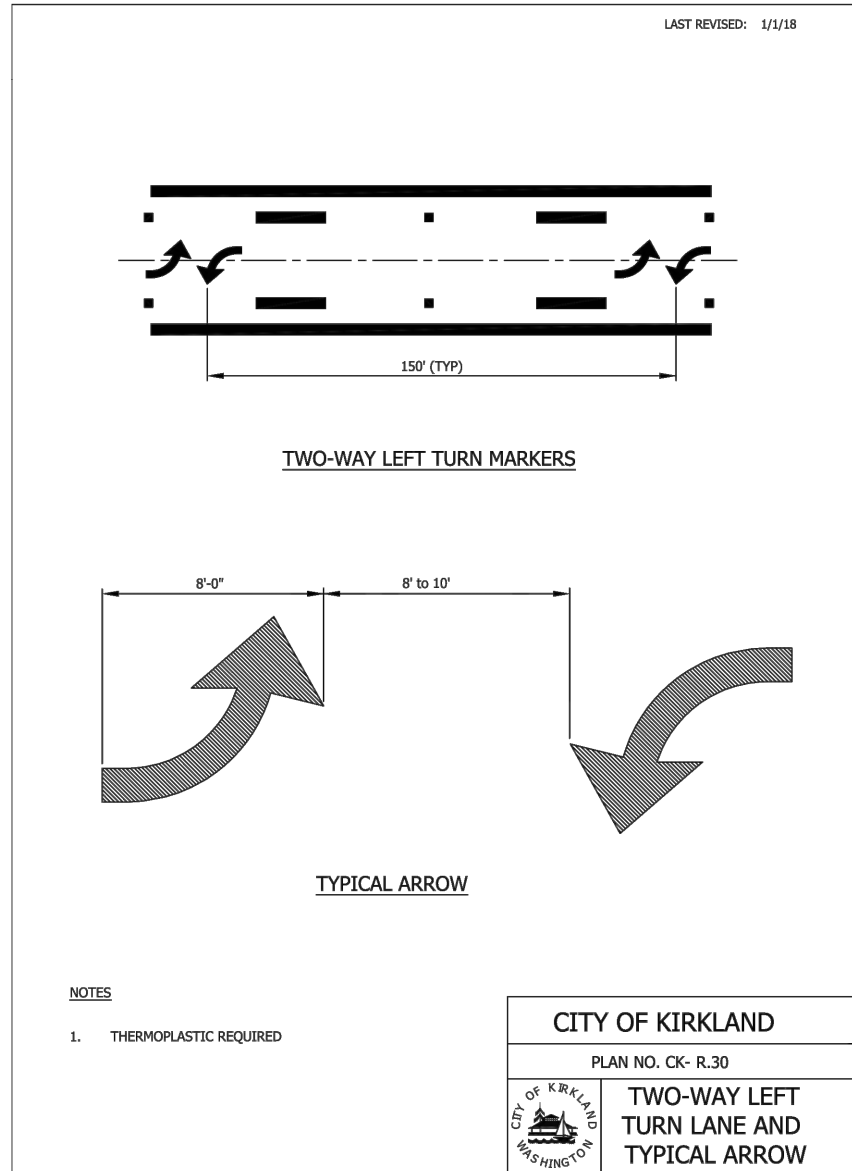
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DESIGNED BY: COK	DRAWN BY: COK
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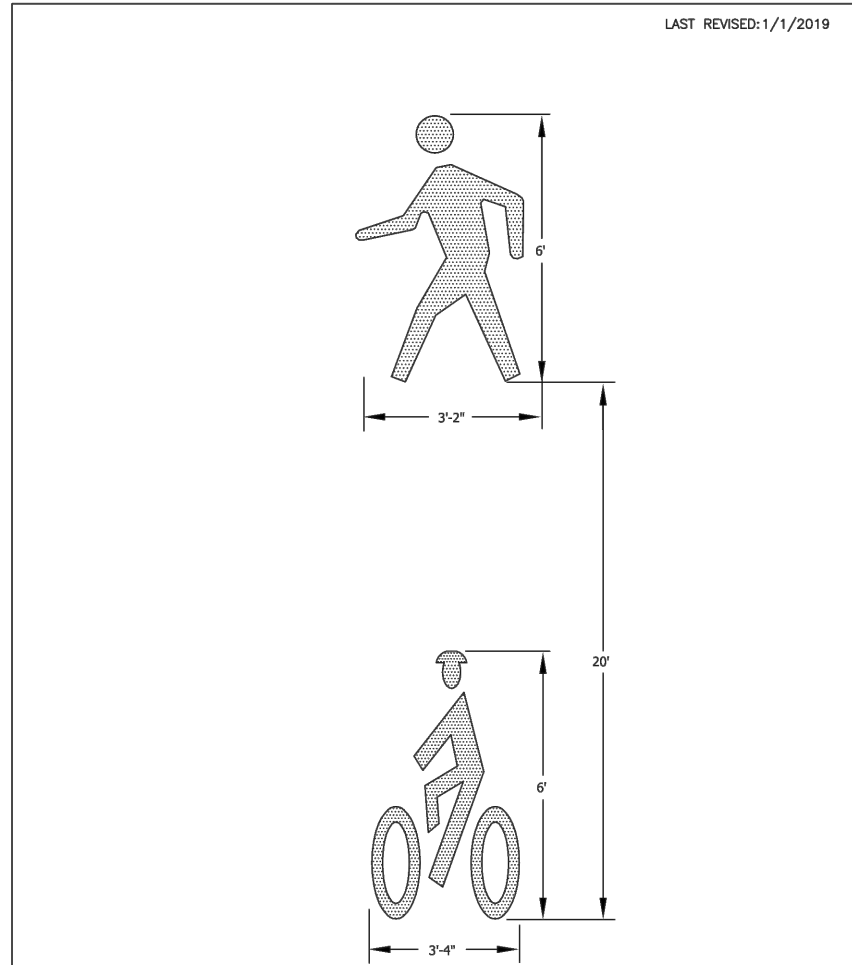
FUNDING NO. 19065

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CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.
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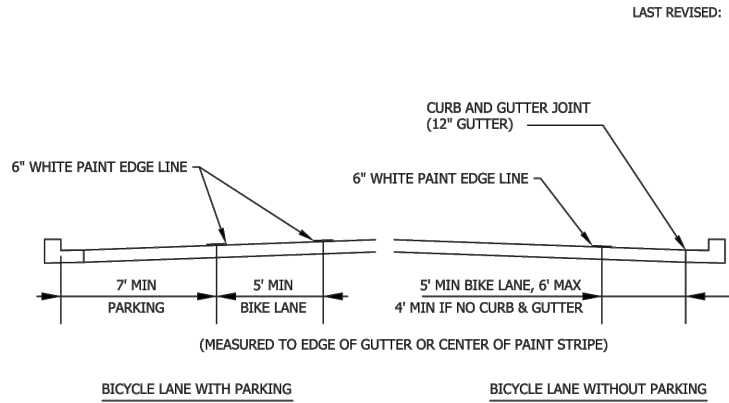


LAST REVISED: 1/1/2019

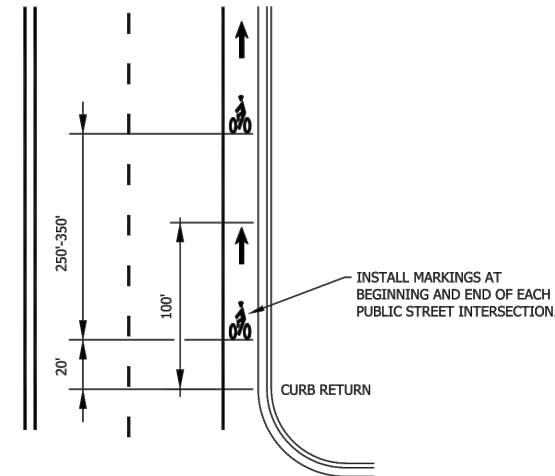
- NOTES:**
- BIKE AND PEDESTRIAN LANE SYMBOLS MATERIAL SHALL BE 90 MILL, PERFORMED, SKID RESISTANT THERMOPLASTIC.
  - BIKE AND PEDESTRIAN SYMBOLS FACES ROADWAY CENTERLINE.

**CITY OF KIRKLAND**  
PLAN NO. CK-R.34B

**BICYCLE AND PEDESTRIAN LANE MARKINGS**



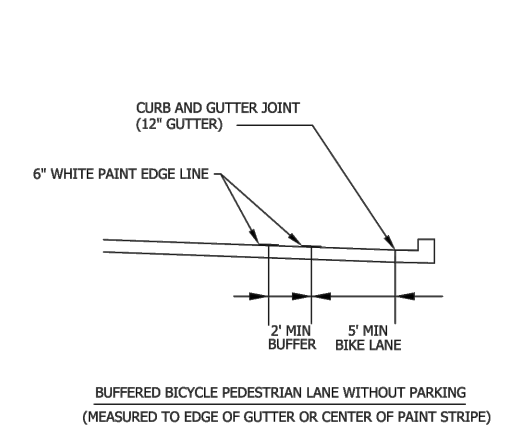
LAST REVISED: 1/2023



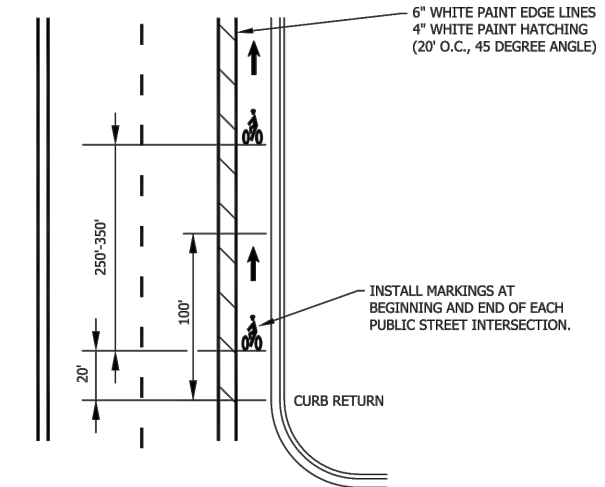
- NOTES:**
- SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.
  - PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
  - BICYCLIST AND PEDESTRIAN SYMBOLS PER CK-R.34B
  - 4' BIKE LANE WIDTH MAY BE CONSIDERED IN CONSTRAINED LOCATIONS.

**CITY OF KIRKLAND**  
PLAN NO. CK- R.35

**TYPICAL BICYCLE LANE - WIDTH, SIGNING & MARKING**



LAST REVISED: 01/2023



- NOTES:**
- SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.
  - PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
  - BICYCLIST AND PEDESTRIAN SYMBOLS PER CK-R.34.
  - 4' BIKE LANE WIDTH MAY BE CONSIDERED IN CONSTRAINED LOCATIONS.

**CITY OF KIRKLAND**  
PLAN NO. CK-R.35A

**TYPICAL BUFFERED BICYCLE LANE - WIDTH, SIGNING & MARKING**

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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DESIGNED BY: COK	DRAWN BY: COK
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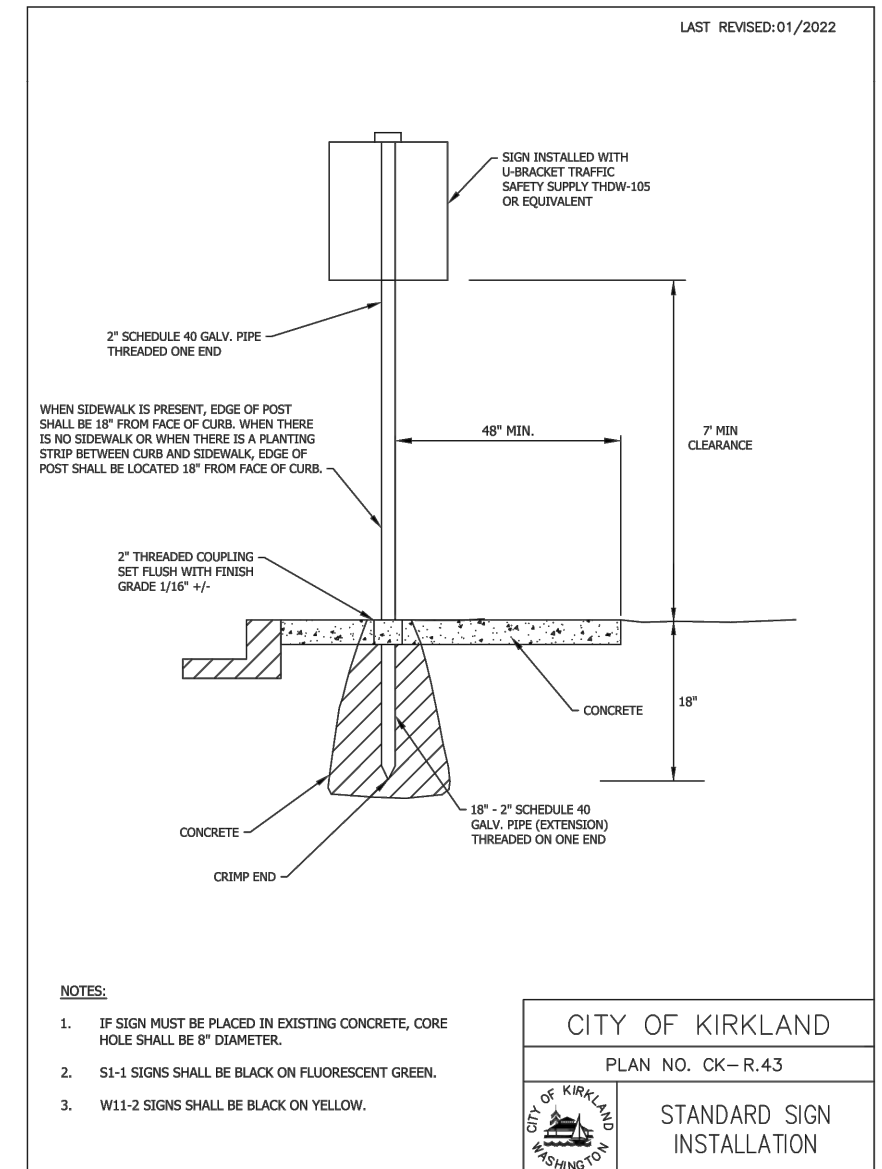
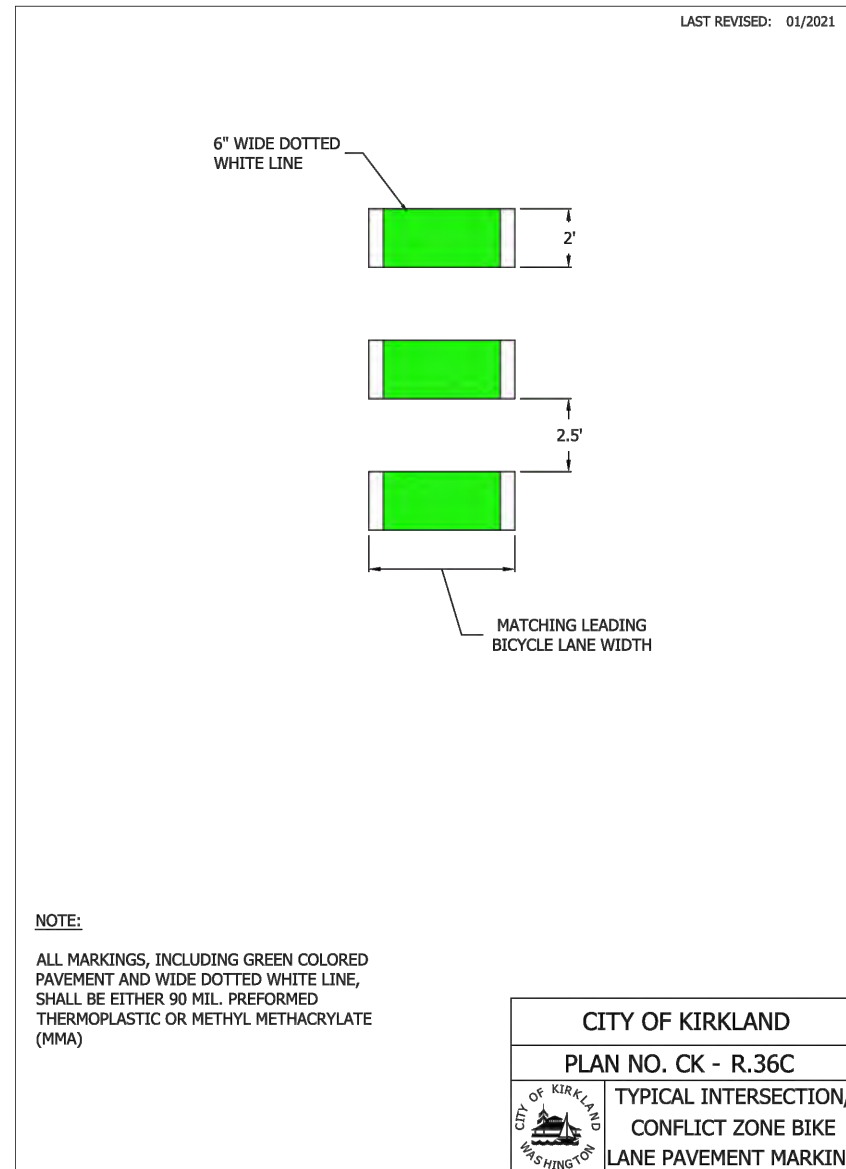
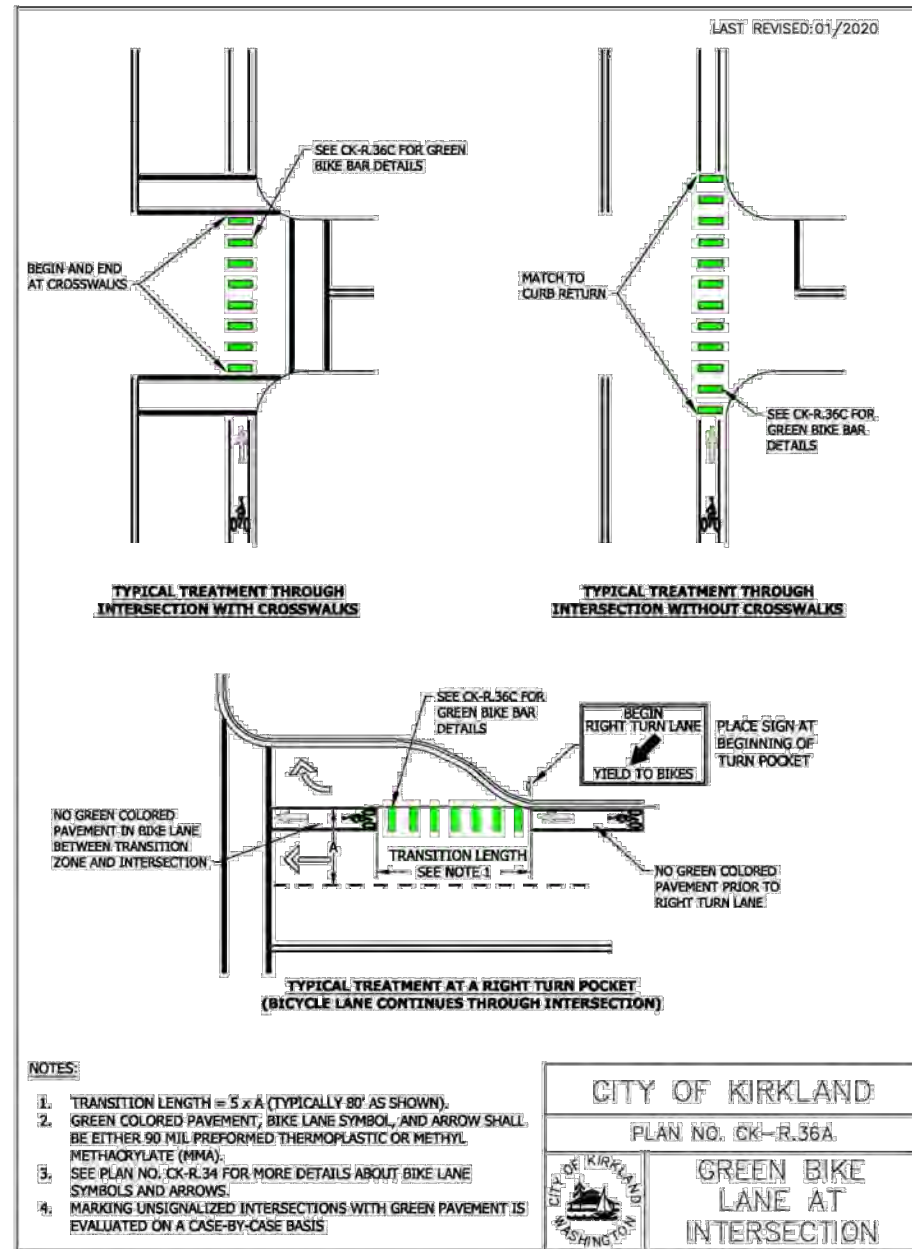
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**CITY OF KIRKLAND STANDARD DETAILS**

REFERENCE SHEET NO.

SHEET 109 OF 161 SHEETS

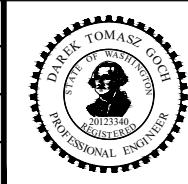
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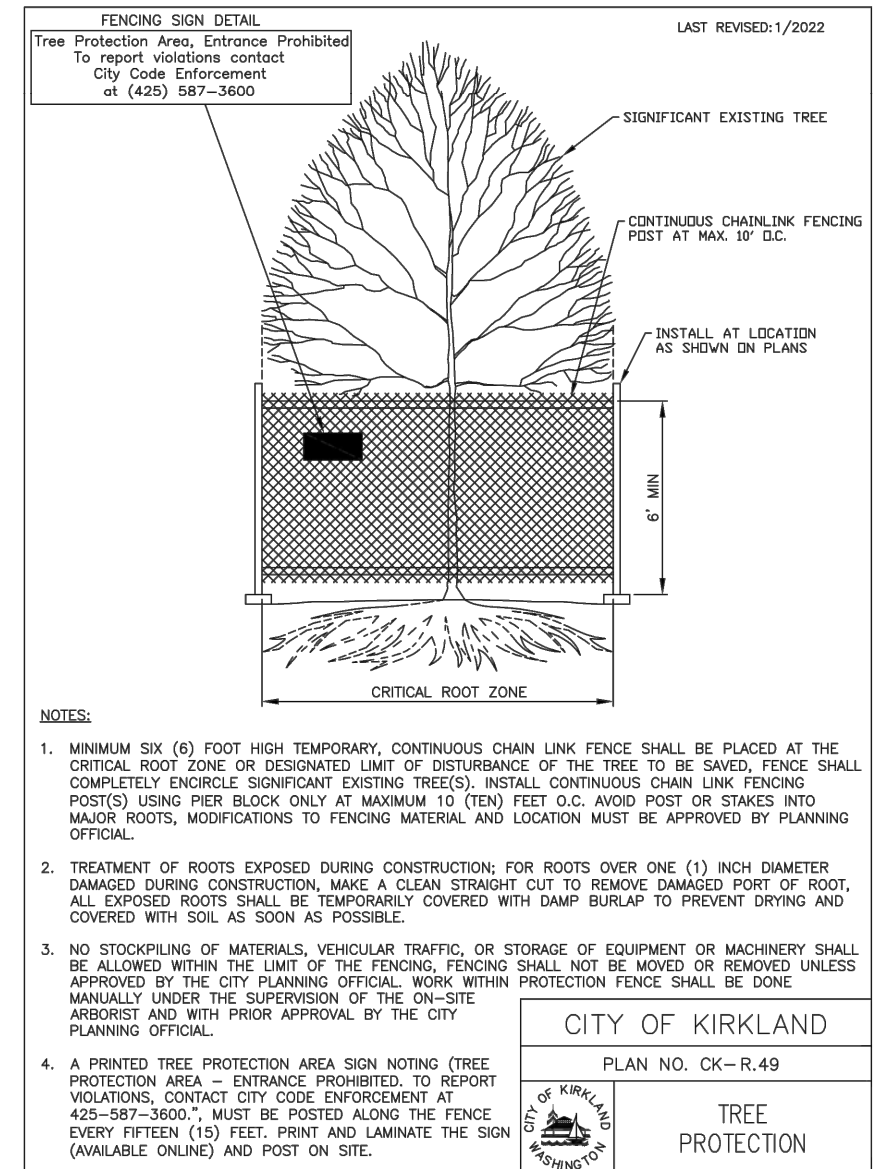
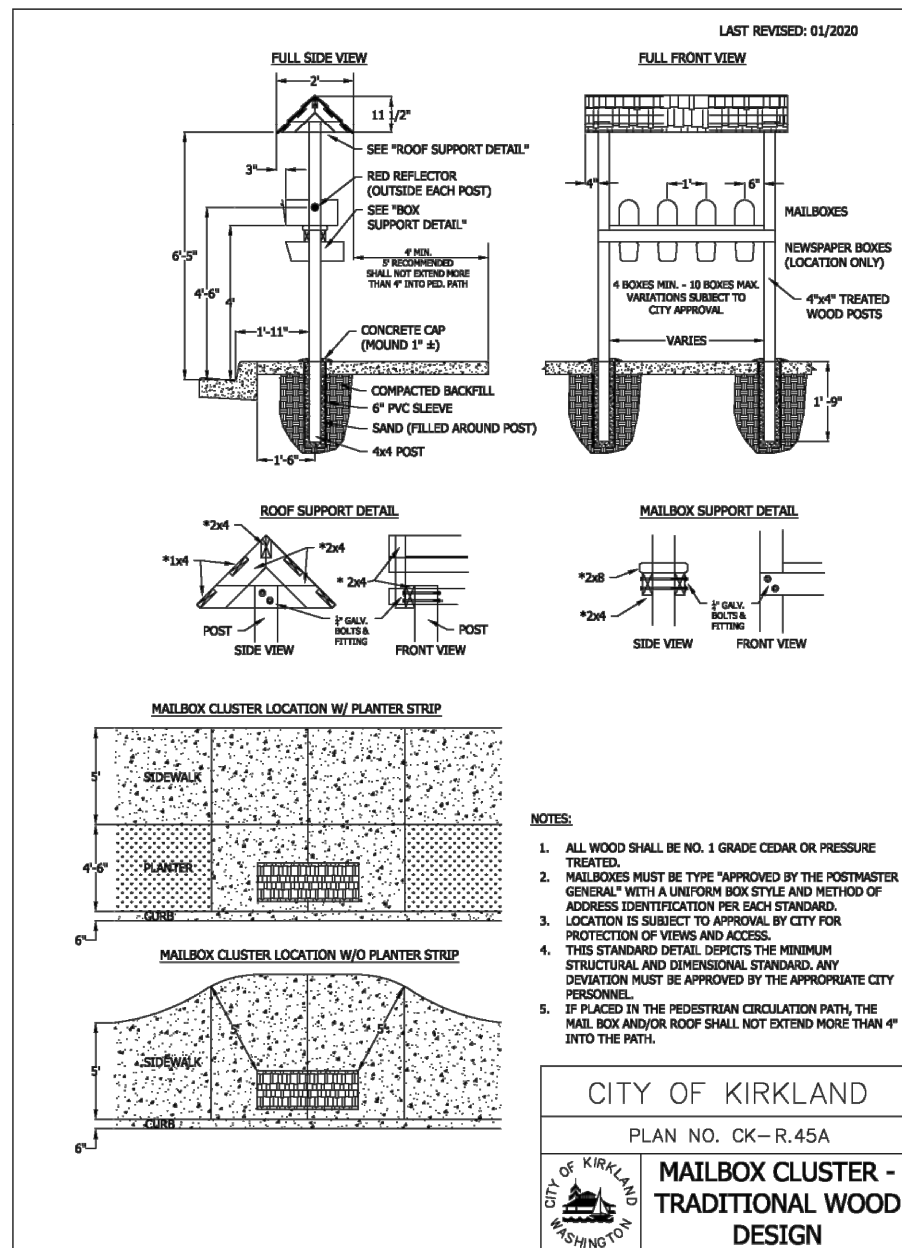
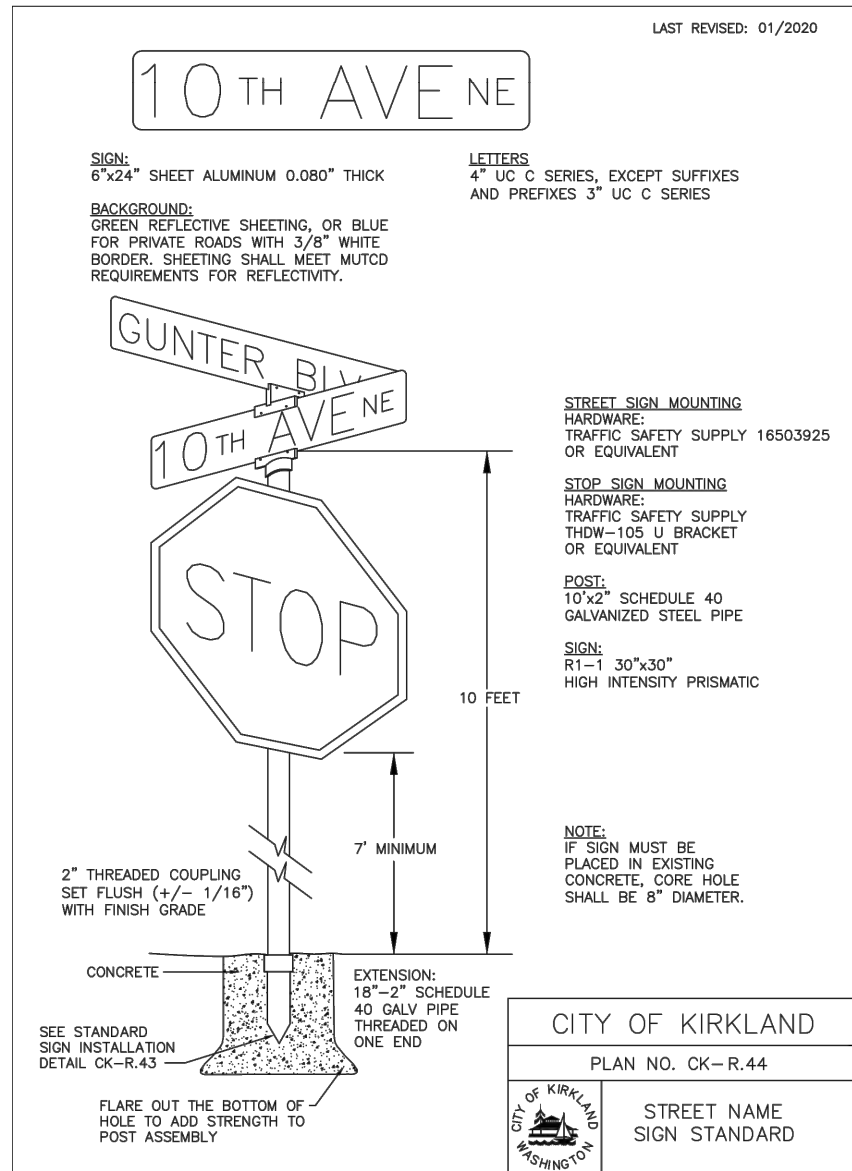
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.
SHEET 110 OF 161 SHEETS

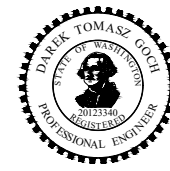
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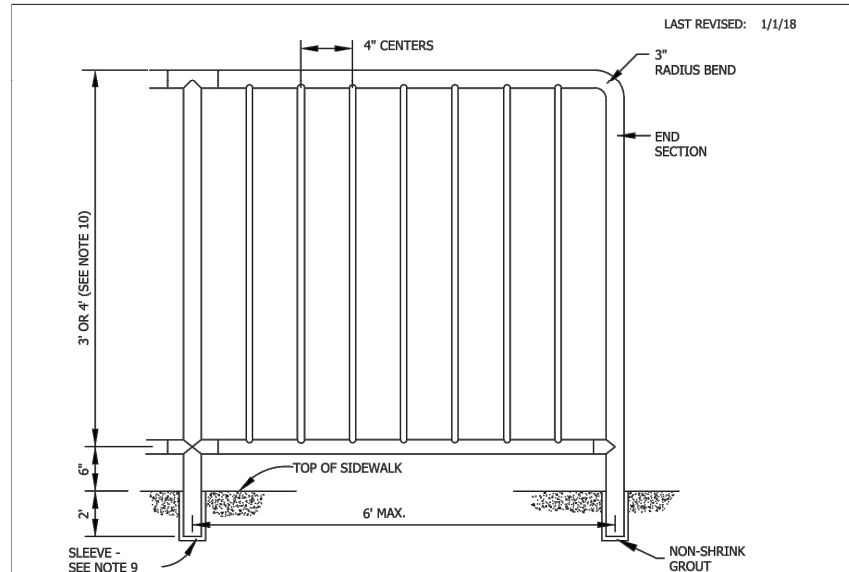
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

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**PIPE SCHEDULE**  
(ALL DIMENSIONS O.D.)

PANEL HEIGHT	TOP RAIL/POST	BOTTOM RAIL	BALUSTER
3' 4'	1.90" 2.875"	1.90" 2.375"	.840" .840"

**NOTES**

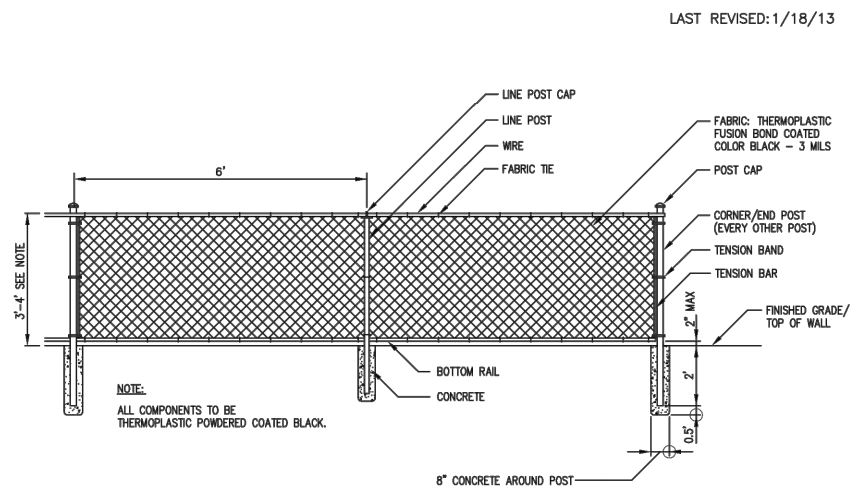
- RAILING SHALL BE ALUMINUM PIPE RAIL OR APPROVED EQUIVALENT. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING AT LEAST 0.0006 INCH THICK AND BE HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
- PIPE RAILING AND PIPE RAILING SPLICES MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- WELDING OF ALUMINUM SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- ALLOW FOR EXPANSION AT APPROXIMATELY EVERY FOURTH POST.
- RAILS, POSTS AND FORMED ELBOWS SHALL BE A.S.T.M B-241 OR B-429 ALLOY, 6063-T6 SCHEDULE 40 (STD. PIPE), BRACKETS, ENDCAPS AND OTHER FITTINGS SHALL BE A.S.T.M. 6063-T5. SPLICES AND REINFORCING SLEEVES SHALL BE DRAWN ALUMINUM TUBING 6063-T832. SLEEVE I.D. SHALL BE 1" GREATER THAN POST O.D.
- PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES  
4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

**CITY OF KIRKLAND**

PLAN NO. CK- R.51



**SAFETY RAILING  
IN SIDEWALK**



**PIPE SCHEDULE**  
(ALL DIMENSIONS I.D.)

BOTTOM RAIL	CORNER/END POST	LINE POST
1.25"	2.5"	2"

**NOTES**

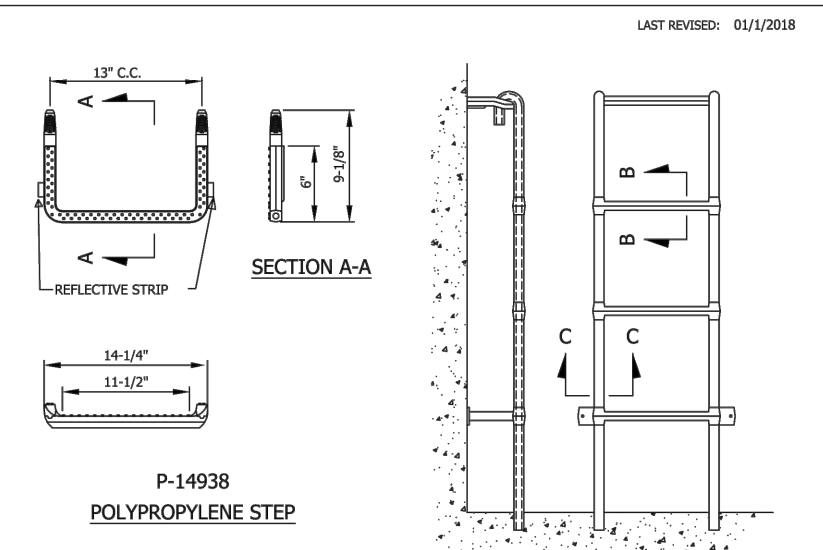
- ALL FENCING MATERIALS SHALL COMPLY WITH THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-16 CLASS 1 MATERIAL. INSTALLATIONS PER MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL STEEL PARTS SHALL BE GIVEN A BLACK ULTRAVIOLET-INSENSITIVE THERMOPLASTIC POWDER COATING AT LEAST 3 MILS THICK AND SHALL HAVE A UNIFORM FINISH.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- ALL MATERIALS SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- ANY WELDING OF STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES  
4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

**CITY OF KIRKLAND**

PLAN NO. CK- R.51A



**CHAIN LINK  
SIDEWALK  
SAFETY RAIL**



**P-14938  
POLYPROPYLENE STEP**

**SPECIFICATIONS:**

- ALL STEPS SHALL MEET THE REQUIREMENTS OF ASTM C-478, AASHTO M-199, WISHA AND ALL ASHA SPECIFICATION.
- THE POLYPROPYLENE SHALL CONFORM TO ASTM D-4101. ASTM D-4101.
- THE 1/2" GRADE 60 DEFORMED REINFORCING BAR SHALL MEET ASTM A-615.
- STEP REFLECTORS OR BRIGHT COLORED STEPS REQUIRED.

**INSTALLATION:**

- THE STEP CAN BE CAST IN PLACE.
  - DRIVEN INTO PREFORMED HOLES WITH CONCRETE CURED TO 3,000 PSI MINIMUM.
  - DRIVEN INTO 2 PARALLEL 1" DIAMETER HOLES DRILLED 13" OR 10" ON CENTER, 3-1/2" DEEP.
  - DRILL 2 1-1/8" OR 1-1/4" HOLES, 3-1/2" DEEP, APPLY CURRENT WSDOT EPOXY SPECIFICATION IN THE HOLE AND AROUND THE BARBS OF THE STEP. PUSH THE STEP INTO THE HOLES ALLOWING THE EPOXY TO FLOW OUT TO THE SQUARE SHOULDER OF THE STEP.
- ANY OF THE ABOVE METHODS WILL RESIST A PULLOUT FORCE OF OVER 1,500 LBS.

**CITY OF KIRKLAND**

PLAN NO. CK-S.14

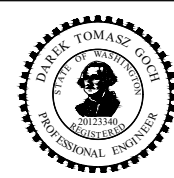


**LADDER AND  
MANHOLE STEPS**

DATE	NO.	REVISION	BY



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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

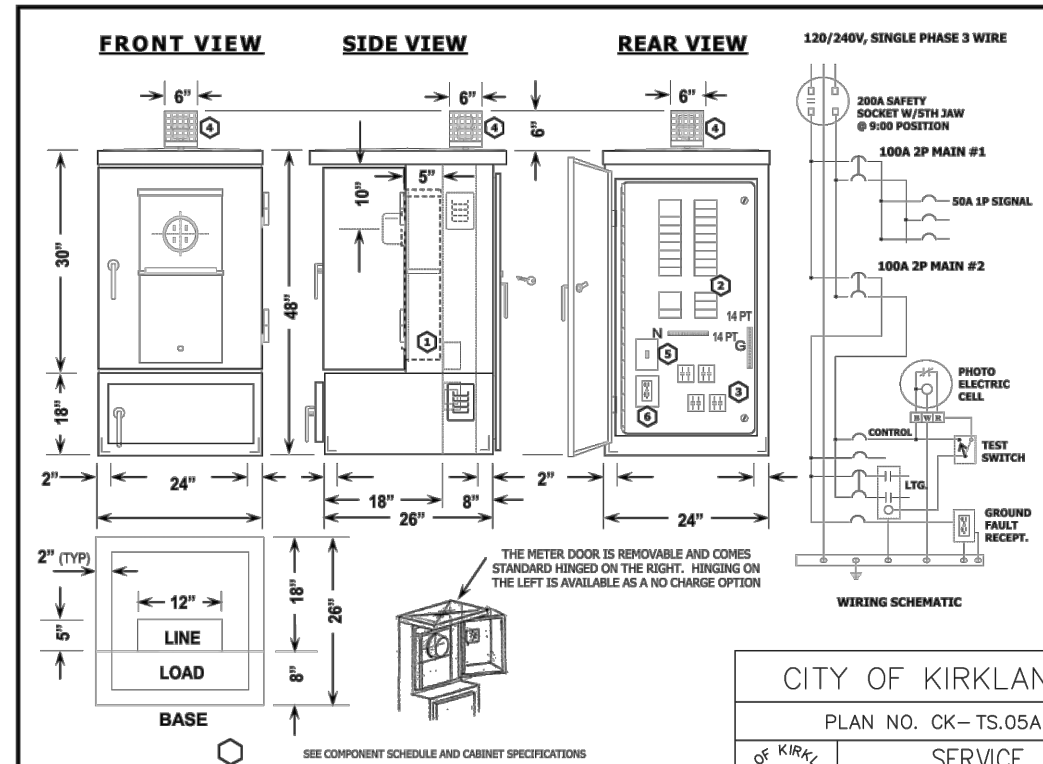
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**STANDARD DETAILS**

REFERENCE SHEET NO.
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LAST REVISED: 1/1/18



NOTES:  
 SKYLINE ELECTRIC & MFG. CO. OR EQUAL

CITY OF KIRKLAND  
 PLAN NO. CK-TS.05A  
 SERVICE CABINET  
 62460-R1

**PANELBOARD SCHEDULE "S" 120/240V 1P 3W 22K AIC SERIES RATED**

CKT#	DESCRIPTION	TYPE	TRIP/POLE	TRIP/POLE TYPE	DESCRIPTION	CKT#	
1	MAIN CB	QBH	100/2	30/2	BAB	ILLUMINATION #3	2
3							4
5	ILLUMINATION #1	BAB	30/2	30/2	BAB	ILLUMINATION #4	6
7							8
9	ILLUMINATION #2	BAB	30/2	20/1	BAB	GFI RECEPTACLE	10
11				15/1	BAB	CONTROL	12
13	RECEPTACLE	BAB	20/1	20/1	BAB	RECEPTACLE	14
15	PREPARED SPACE					PREPARED SPACE	16
17	PREPARED SPACE					PREPARED SPACE	18

S/N    A    B

**PANELBOARD SCHEDULE "T" 120/240V 1P 3W 22K AIC SERIES RATED**

CKT#	DESCRIPTION	TYPE	TRIP/POLE	TRIP/POLE TYPE	DESCRIPTION	CKT#
1	MAIN CB	QBH	100/2	20/1	ITS	2
3						4
5	SIGNAL	BAB	50/1			6

S/N    A    B

**CITY OF KIRKLAND  
 PANELBOARDS "S" & "T"  
 PANELBOARD SCHEDULES**

**ELECTRICAL DATA:**  
 PANELBOARD: 120/240VAC 1 PHASE 3 WIRE, 22K AIC SERIES RATED, SPLIT BUS, 250 AMP SILVER PLATED COPPER BUS, COPPER NEUTRAL AND GROUND BUS,  
 MAIN CBS: CUTLER HAMMER QBHW2100H  
 BRANCH CBS: WESTINGHOUSE BAB BOLT-ON CBS  
 PER UL67 FILE NO. E21192

**CITY OF KIRKLAND**  
 PLAN NO. CK-TS.05B  
**PANELBOARDS "S" & "T"  
 CIRCUIT BREAKER  
 SCHEDULES**

DATE	NO.	REVISION	BY



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**JUANITA DRIVE MULTIMODAL,  
 INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.
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**CITY OF KIRKLAND**  
SERVICE CABINET FOR SERVICE AND STREET AND TRAFFIC SIGNAL

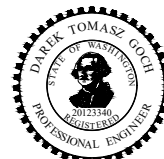
COMPONENT SCHEDULE

- ① **METER BASE:** 200 AMP, BY-PASS TYPE, 4-JAW, SINGLE PHASE, 5TH JAW INSTALLED AT 9:00 POSITION, B-LINE U264
- ② **PANELBOARD:** 120/240 VAC, 1 PHASE, 3 WIRE, 250 AMP COPPER BUS (W/RATING LABEL), SPLIT BUS, 22 KAIC SERIES RATED, BOLT-ON BRANCH BREAKERS, EATON TYPE BAB  
SIGNAL SECTION: 100 AMP, 2 POLE MAIN BREAKER, EATON QBHW2100, 6 CKT  
1 - 50 /1 SIGNAL BRANCH  
1 - 20 /1 ITS BRANCH  
2 - 1 POLE SPACE  
ILLUMINATION SECTION: 100 AMP, 2 POLE MAIN BREAKER, EATON QBHW2100, 18 CKT  
4 - 30/2 ILLUMINATION BRANCH  
2 - 20/1 RECEPTACLE BRANCH  
1 - 15/1 CONTROL CKT BRANCH  
1 - 20/1 GROUND FAULT RECEPTACLE BRANCH
- ③ **CONTACTORS:** LIGHTING RATED, 30 A, 2 POLE, 120 VAC COIL, 4 - REQUIRED
- ④ **PHOTO ELECTRIC CELL:** 1800 WATT, 120 VAC, TWIST LOCK, TYCO #SST-PV-IES-UL WITH 6" x 6" x 6" WIRE MESH GUARD
- ⑤ **PHOTO-CELL BYPASS SWITCH:** SPDT, 15 AMP, 277 VAC
- ⑥ **GROUND FAULT RECEPTACLE:** 20 AMP, 125 VAC, DUPLEX

CABINET: NEMA 3R, PADMOUNT, 1/8" ALUMINUM 5052-H32 CONSTRUCTION  
2 SCREENED AND GASKETED VENTS  
DOORS: HEAVY DUTY HINGES (LIFT-OFF TYPE), WELDED IN PLACE  
STAINLESS STEEL VAULT HANDLES, PADLOCKABLE METER DOOR  
"BEST" CX LOCK ON DISTRIBUTION DOOR, POLISHED WIRE GLASS WINDOW IN METER DOOR, CLOSED CELL NEOPRENE GASKET, CARD HOLDER  
FINISH: MILL FINISH ALUMINUM, DEADFRONT WHITE

CITY OF KIRKLAND

CITY OF KIRKLAND	
PLAN NO. CK-TS.05C	
	COMPONENT SCHEDULE



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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

CITY OF KIRKLAND  
**STANDARD DETAILS**

REFERENCE SHEET NO.

SHEET 114 OF 161 SHEETS

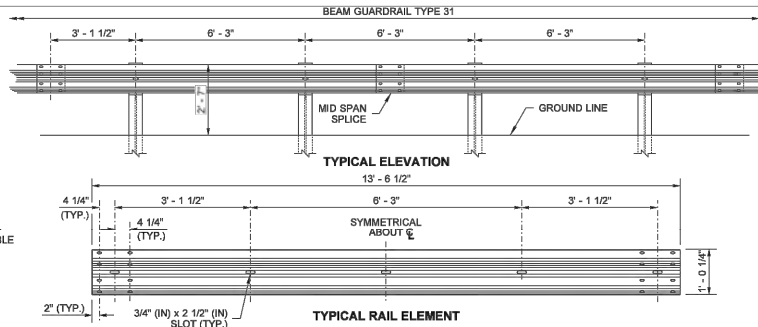
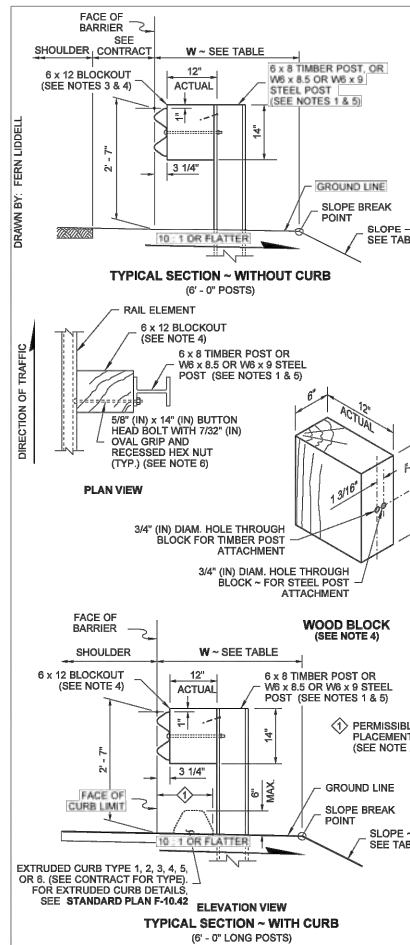
DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: COK	DRAWN BY: COK
9/2023	9/2023

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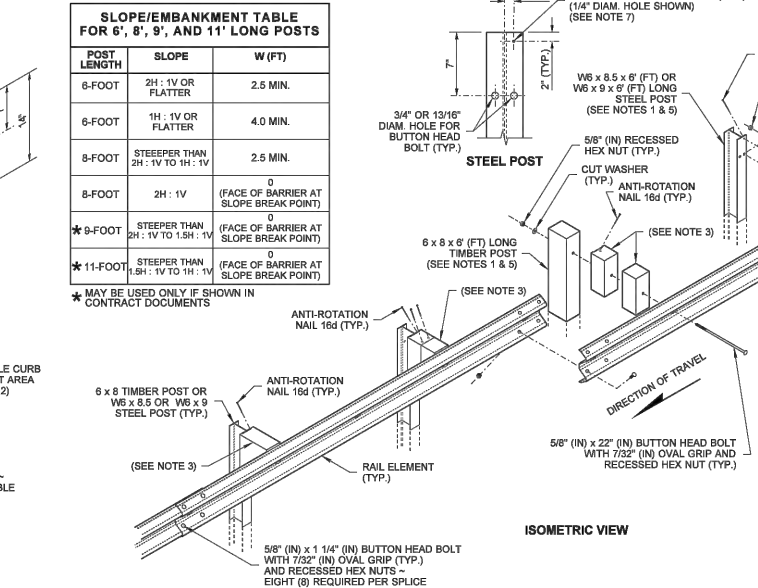
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**SLOPE/EMBANKMENT TABLE FOR 6', 8', 9', AND 11' LONG POSTS**

POST LENGTH	SLOPE	W (FT)
6-FOOT	2H : 1V OR FLATTER	2.5 MIN.
6-FOOT	1H : 1V OR FLATTER	4.0 MIN.
8-FOOT	STEEPER THAN 2H : 1V TO 1H : 1V	2.5 MIN.
8-FOOT	2H : 1V	0 (FACE OF BARRIER AT SLOPE BREAK POINT)
* 9-FOOT	STEEPER THAN 2H : 1V TO 1.5H : 1V	0 (FACE OF BARRIER AT SLOPE BREAK POINT)
* 11-FOOT	STEEPER THAN 1.5H : 1V TO 1H : 1V	0 (FACE OF BARRIER AT SLOPE BREAK POINT)

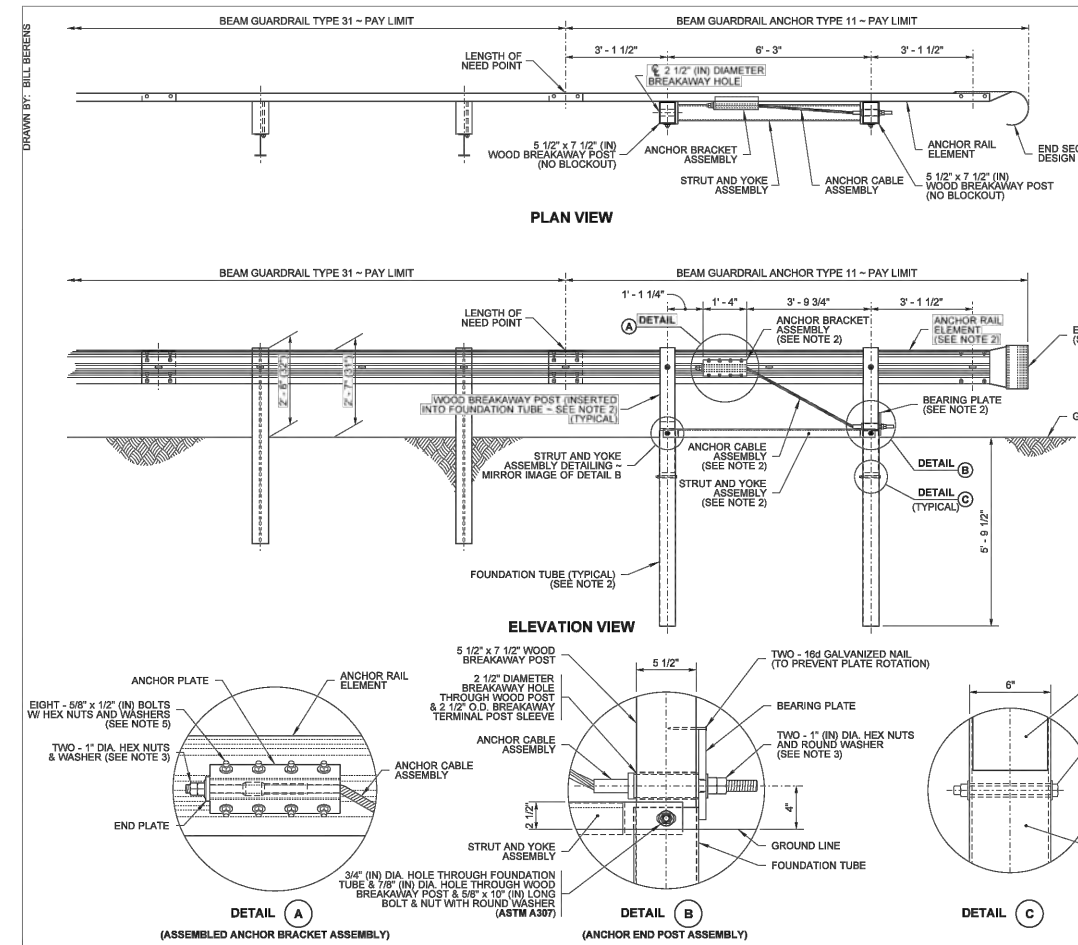
\* MAY BE USED ONLY IF SHOWN IN CONTRACT DOCUMENTS



- NOTES**
- Refer to **Standard Plan C-1b** for additional details not shown on this plan.
  - Extend shoulder pavement to provide a base for the extruded curb. See Contract Plans for exceptions to distances shown.
  - Use a single block or combination of blocks (no more than two (2) to achieve the actual 12" (in) offset. See **Standard Specification, Section 9-16.3(2)**. Wood blocks shall be secured to the posts with anti-rotation nails. If combination blocks are used, the adjacent blocks shall be toenailed with two 16d galvanized nails to prevent block rotation.
  - Wood blocks are shown. Blocks of an approved alternative material may be used. See **Standard Specification, Section 9-16.3(2)**.
  - All posts for any standard barrier run shall be of the same type: timber or steel.
  - Attach blockouts to steel posts using bolt holes on approaching traffic side of post web.
  - Anti-rotation holes in steel posts are not required when using blocks with anti-rotation features (e.g., routed blocks).



**BEAM GUARDRAIL TYPE 31**  
**STANDARD PLAN C-20.10-08**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Mark Calhoun  
 STATE DESIGN ENGINEER  
 Sep 8, 2022  
 Washington State Department of Transportation



- NOTES**
- For typical rail element and post details not shown on this plan refer to **Standard Plans C-20.10** and **C-1b**.
  - For additional details not shown, see **Sheet 2** of this Plan.
  - Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.
  - It is permissible to fabricate the anchor plate from 1/4" (in) thick plates welded to equal strength and dimensions as shown.
  - Eight 5/8" x 1 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.
  - Galvanizing of Anchor metal components shall be in accordance with **Standard Specification Section 9-16.3(6)**.

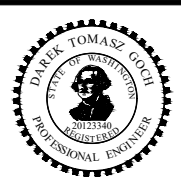


**BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 11**  
**STANDARD PLAN C-23.70-00**  
 SHEET 1 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 Mark Calhoun  
 STATE DESIGN ENGINEER  
 Aug 22, 2022  
 Washington State Department of Transportation

DATE	NO.	REVISION	BY



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9/2023	9/2023

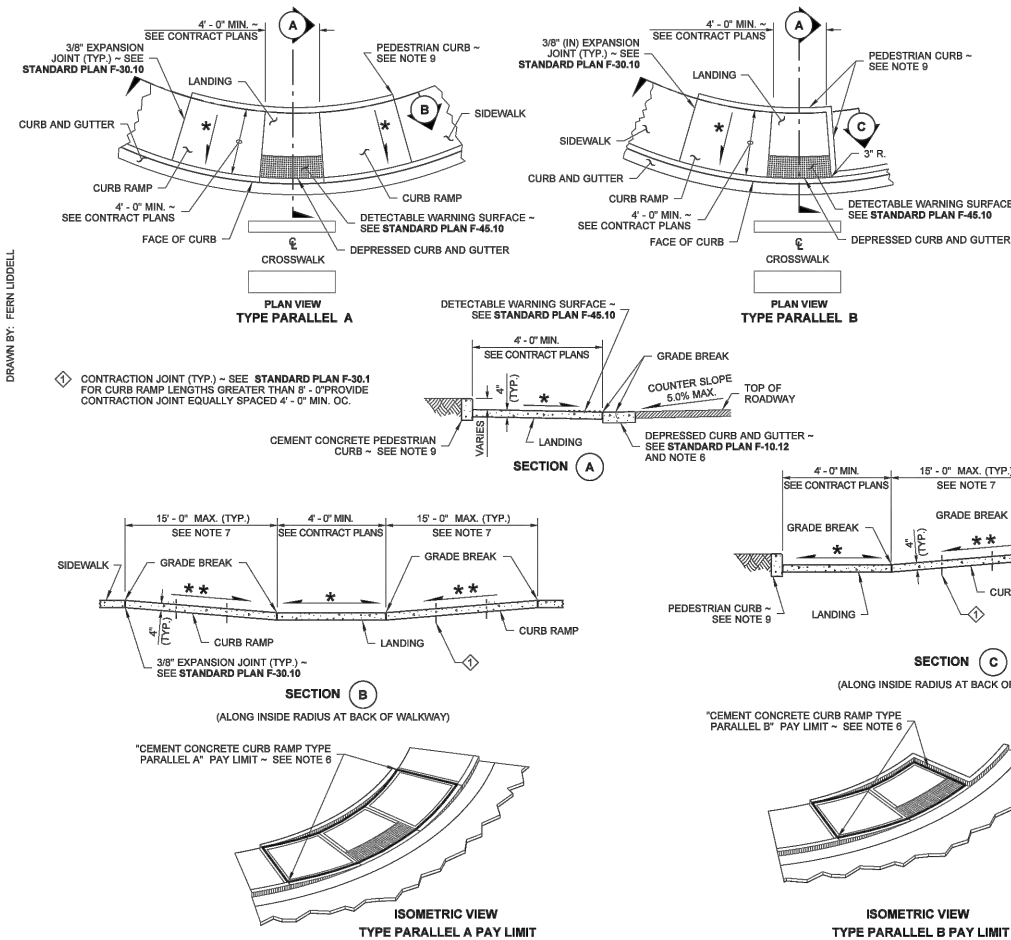


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 FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
**WSDOT STANDARD PLANS**

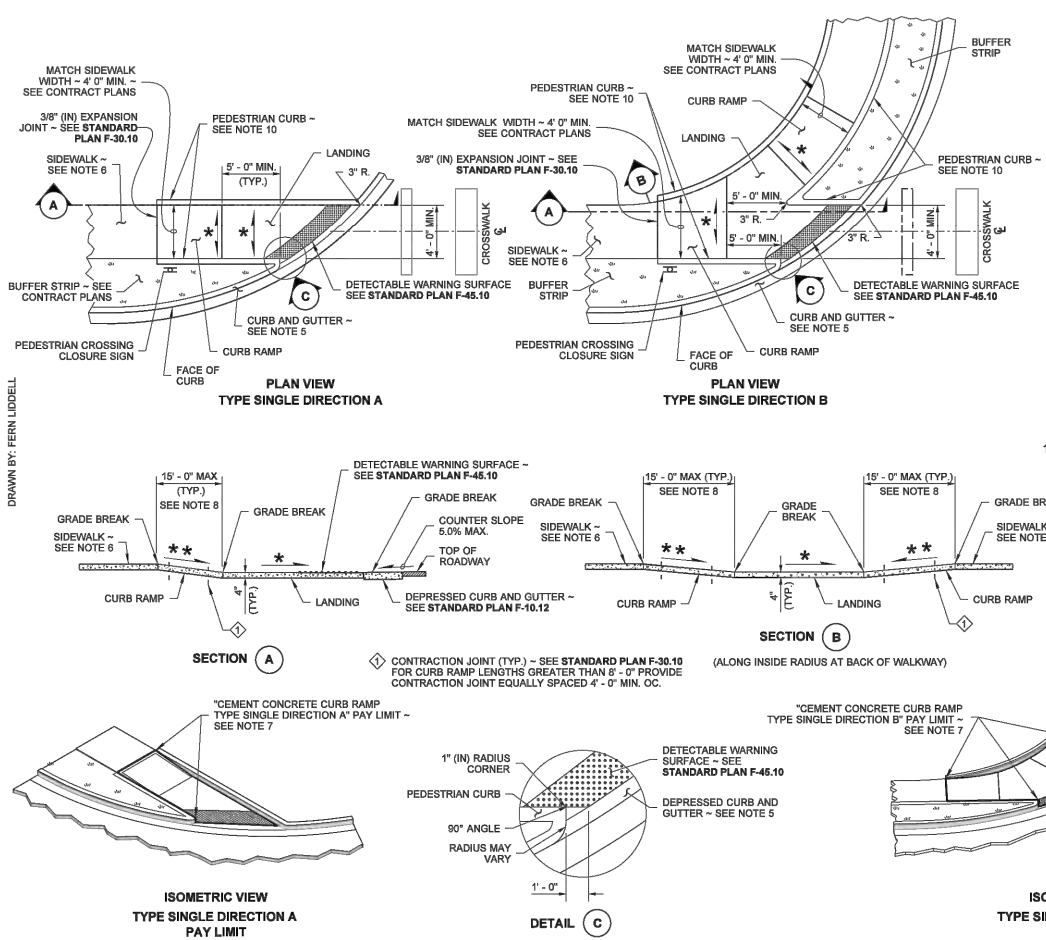
REFERENCE SHEET NO.
SHEET 115 OF 161 SHEETS



- NOTES**
- At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
  - Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
  - Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
  - See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb, or Sidewalks.
  - See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
  - The Bid Item "Cement Concrete Curb Ramp Type \_\_\_" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
  - The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. length measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
  - Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
  - Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.



**PARALLEL CURB RAMP**  
**STANDARD PLAN F-40.12-03**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Carpenter, Jeff  
 Jun 29 2016 2:27 PM  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation



- NOTES**
- This plan is to be used where pedestrian crossing in one direction is not permitted.
  - At marked crosswalks, the connection between the Landing and the roadway must be contained within the width of the crosswalk markings.
  - Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
  - Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing or in the Depressed Curb and Gutter where the Landing connects to the roadway.
  - See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb, or Sidewalks.
  - See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
  - The Bid Item "Cement Concrete Curb Ramp Type \_\_\_" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
  - The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
  - Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
  - Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

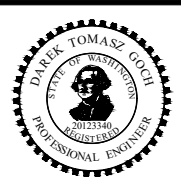


**SINGLE DIRECTION CURB RAMP**  
**STANDARD PLAN F-40.16-03**  
 SHEET 1 OF 1 SHEET  
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DESIGNED BY: WSDOT	DRAWN BY: WSDOT
9/2023	9/2023



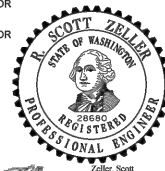
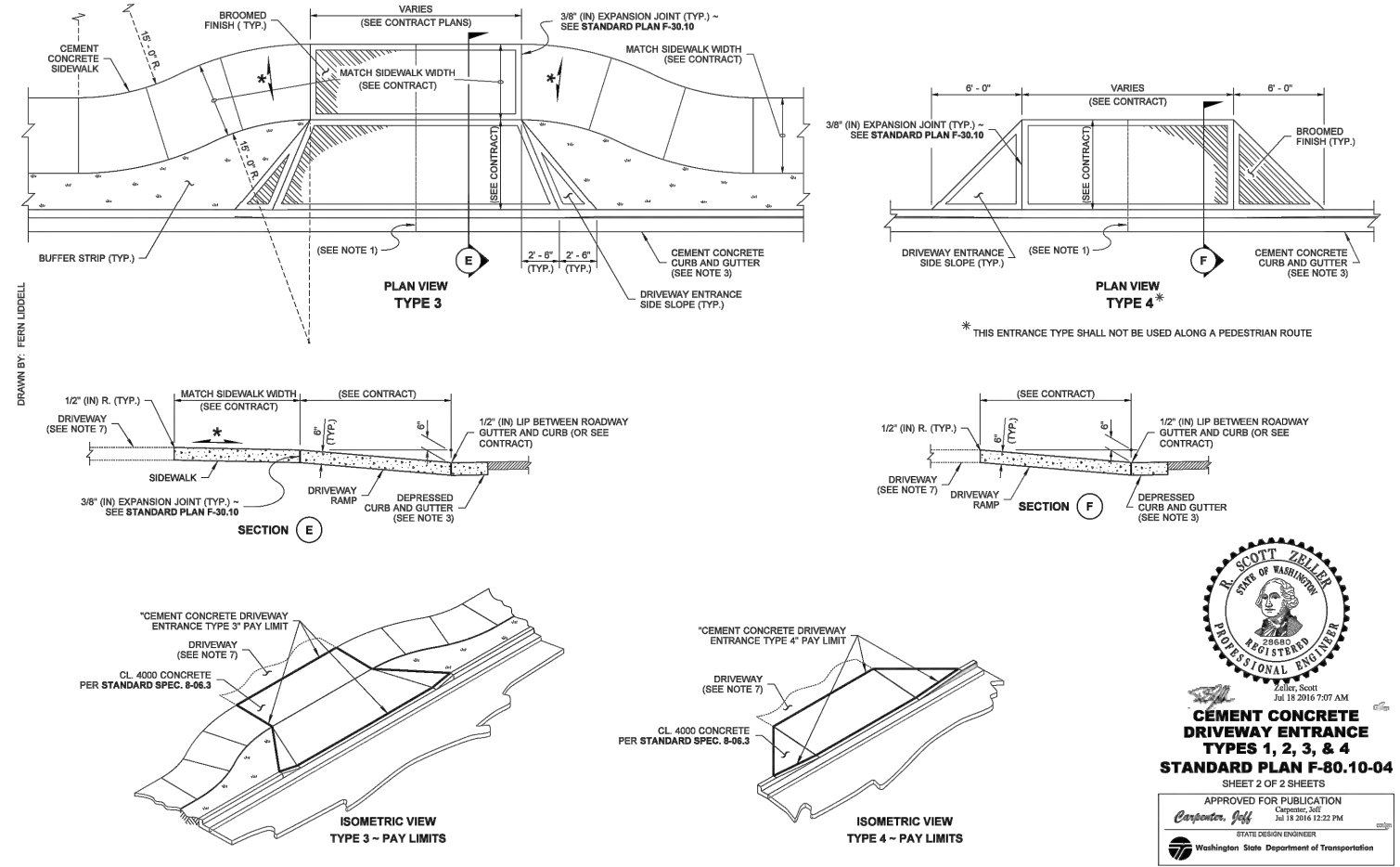
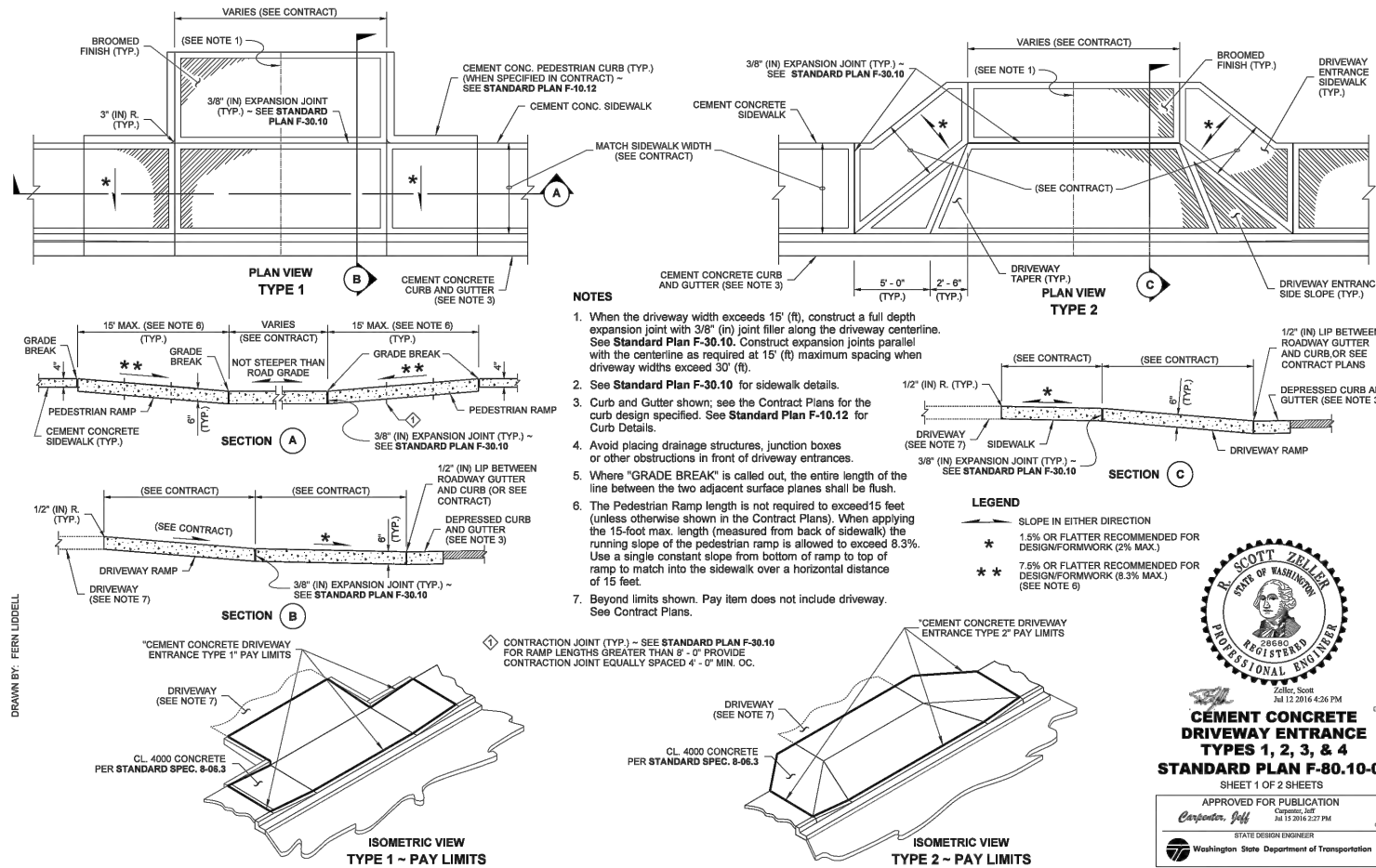
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.
SHEET 116 OF 161 SHEETS

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**CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4**  
 STANDARD PLAN F-80.10-04  
 SHEET 1 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 Carpenter, Jeff  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

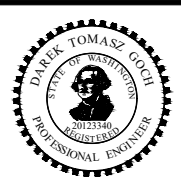


**CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4**  
 STANDARD PLAN F-80.10-04  
 SHEET 2 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 Carpenter, Jeff  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

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DESIGNED BY: WSDOT	DRAWN BY: WSDOT
9/2023	9/2023



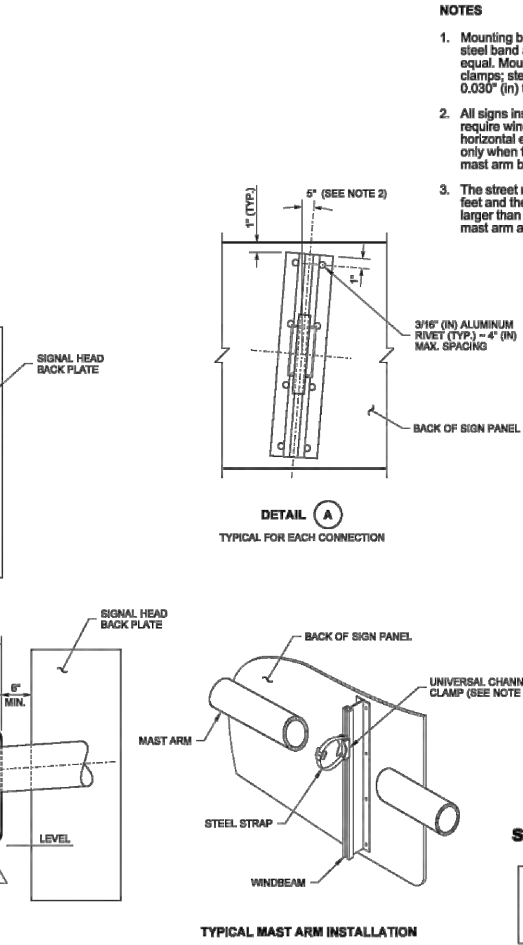
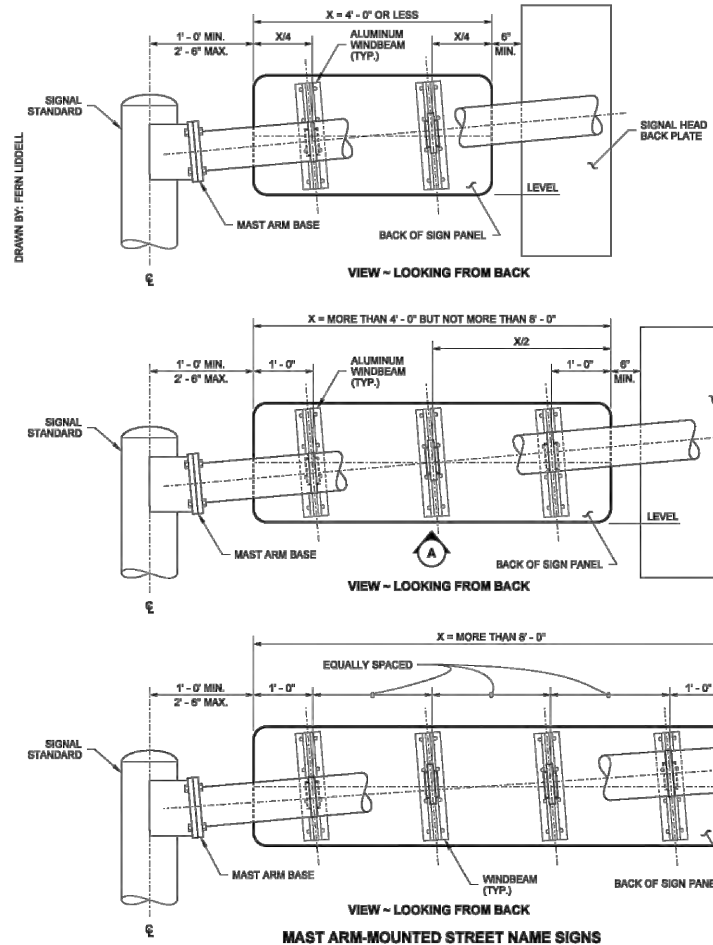
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 WSDOT STANDARD PLANS

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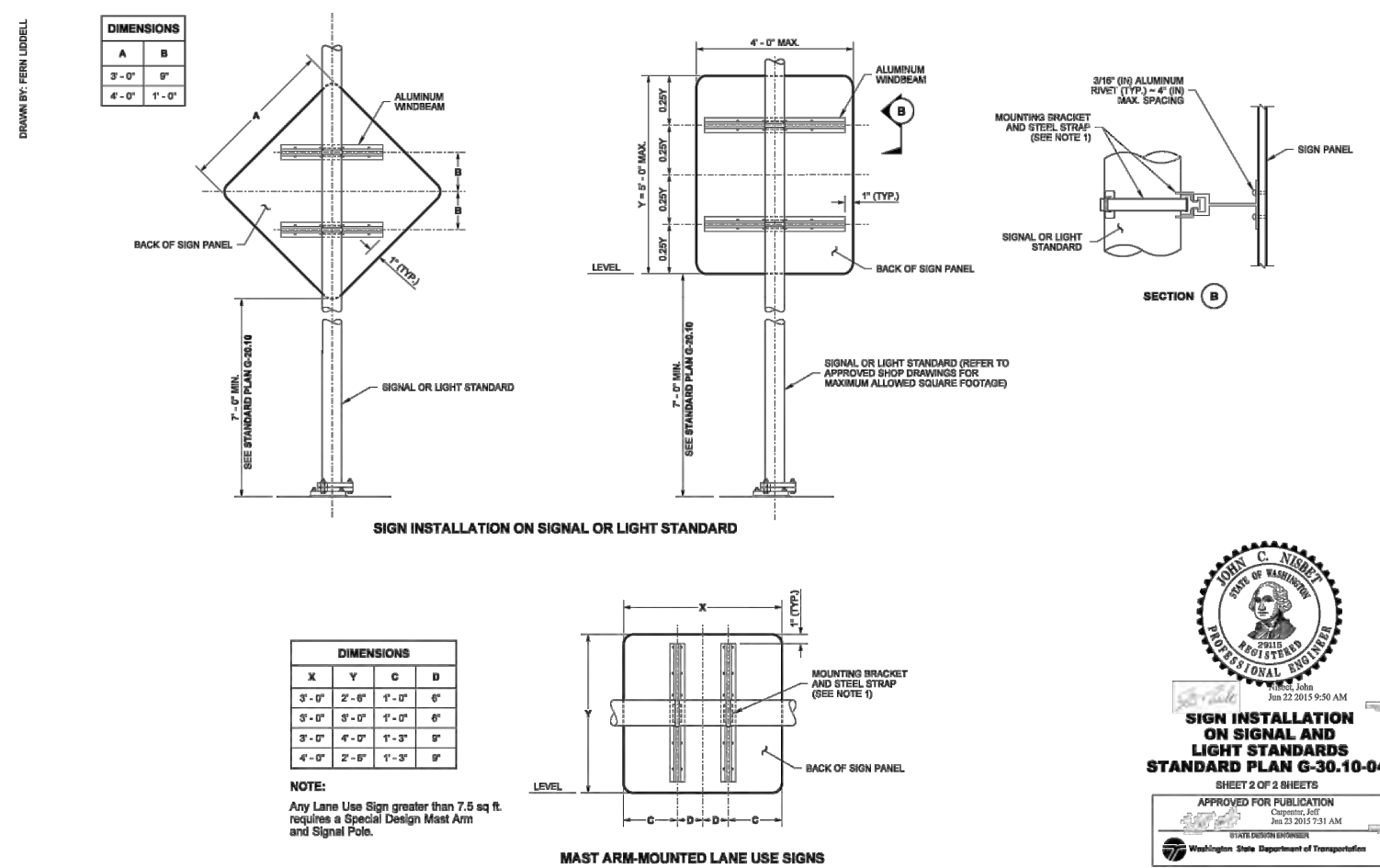
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- NOTES**
1. Mounting brackets with steel straps shall be a stainless steel band and buckle system product or an approved equal. Mounting brackets shall be universal channel clamps; steel straps shall be 3/4" (in) wide and 0.030" (in) thick.
  2. All signs installed on mast arms or standards (poles) require windbeams. All signs shall be installed with horizontal edges level. A skewed windbeam is required only when the sign is mounted within 12" (in) of the mast arm base (see Detail "A").
  3. The street name sign shall be a maximum of 36 square feet and the sign height is a maximum of 3' (ft); signs larger than 36 square feet require a special design mast arm and signal pole.

**JOHN C. NISBET**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
No. 22,2015  
Jan 22, 2015 9:49 AM

**SIGN INSTALLATION ON SIGNAL AND LIGHT STANDARDS**  
**STANDARD PLAN G-30.10-04**  
SHEET 1 OF 2 SHEETS  
APPROVED FOR PUBLICATION  
Carpenter, Jeff  
Jan 23, 2015 7:31 AM  
STATE ENGINEER  
Washington State Department of Transportation



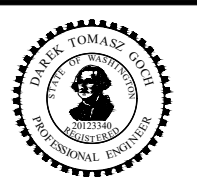
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REGISTERED PROFESSIONAL ENGINEER  
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**SIGN INSTALLATION ON SIGNAL AND LIGHT STANDARDS**  
**STANDARD PLAN G-30.10-04**  
SHEET 2 OF 2 SHEETS  
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Carpenter, Jeff  
Jan 23, 2015 7:31 AM  
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DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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9/2023	9/2023



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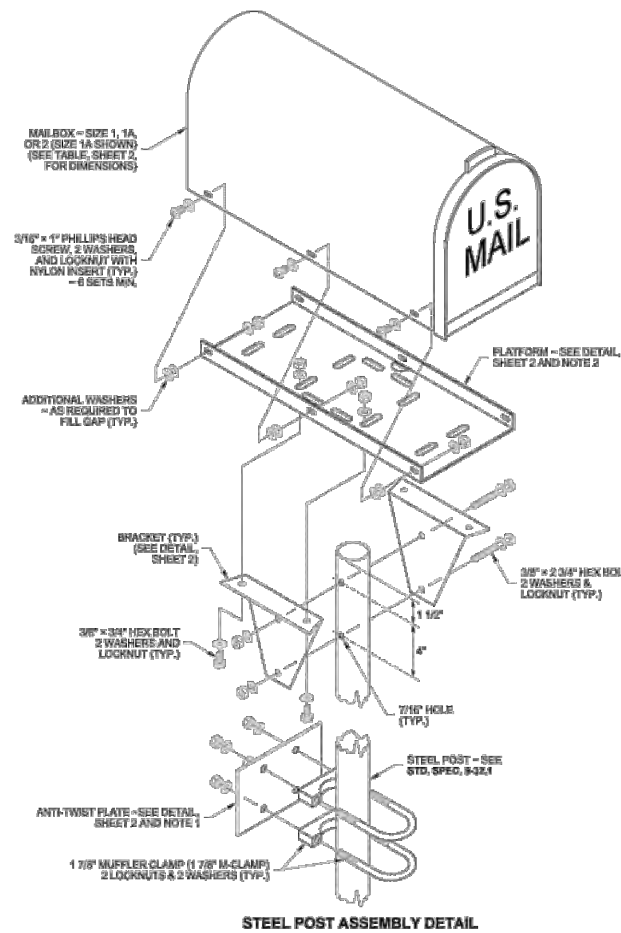
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.
SHEET 118 OF 161 SHEETS

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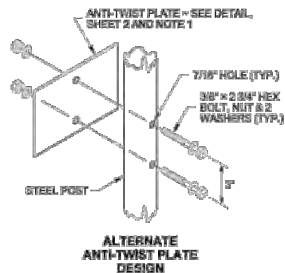
DRAWN BY: MARK SUZUKA



STEEL POST FASTENERS				
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS	
3/8" DIAM. x 2 3/4" BOLT	2	4	2	
3/8" DIAM. x 3/4" BOLT	4	8	4	
3/16" DIAM. x 1" SCREW	6	12	6	
1 7/8" M-CLAMP	2	4	4	

**NOTES**

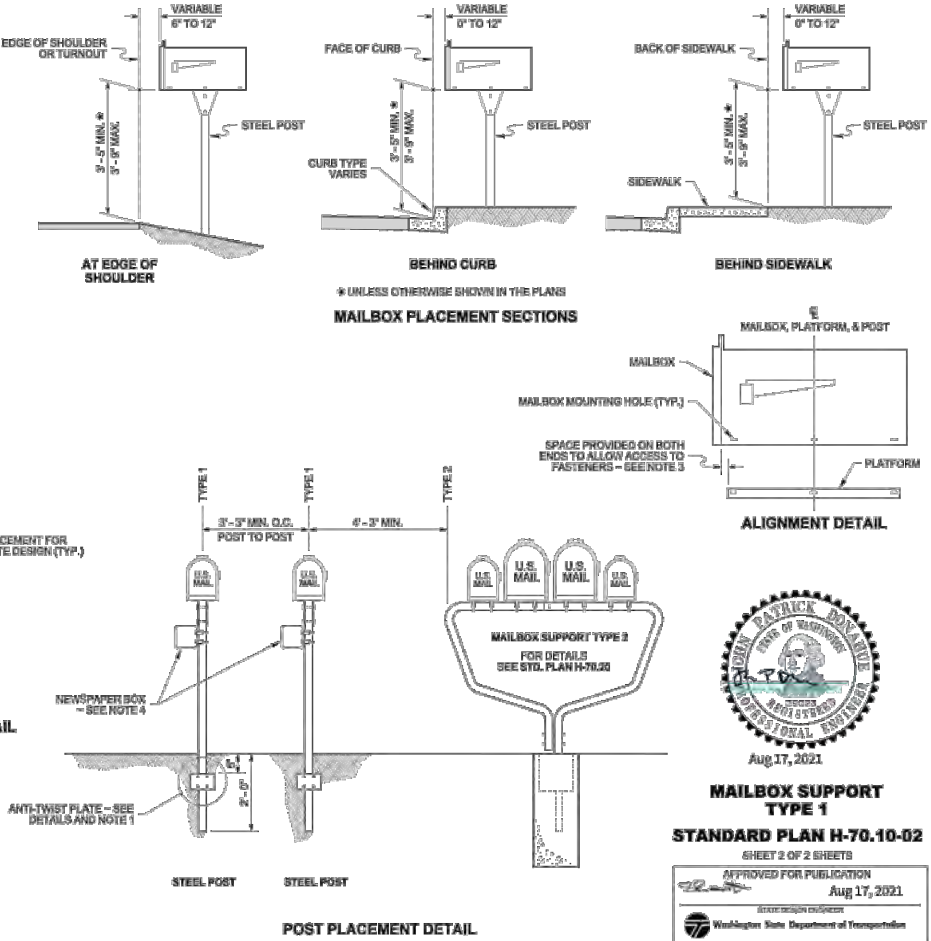
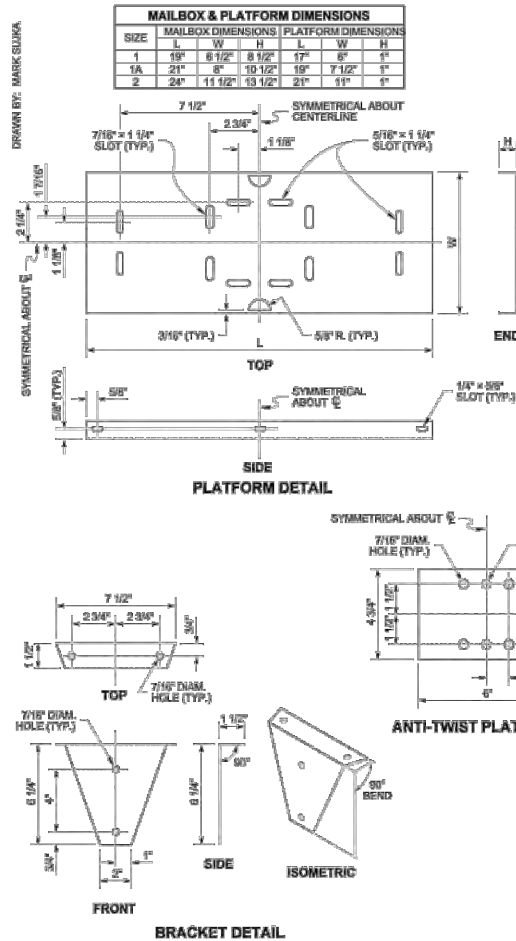
- The anchoring system shall meet MASH crash test criteria. The anti-twist plate anchoring system shown on this plan is deemed MASH compliant by WSDOT. The V-Wing socket and wedge assembly in a concrete base shown on **Std. Plan H-70.20** is also deemed MASH compliant by WSDOT and may be substituted in lieu of the anti-twist plate designs shown. Other MASH compliant anchoring systems manufactured by or recommended by the Type 1 support manufacturer are allowed to be used in lieu of the anti-twist plate or V-wing socket and wedge assembly.
- The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.
- Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to this platform may require drilling additional holes through the mailbox to fit the platform.
- Attach a newspaper box to a steel post with two 1 7/8" (n) Muffer Clamps spaced 4" (n) apart. Field drill 7/16" (n) holes in the newspaper box to fit. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.
- A Type 2 Support (**Standard Plan H-70.20**) is required when 2 or more mailboxes are to be installed on one support.



Aug 17, 2021

**MAILBOX SUPPORT TYPE 1**  
STANDARD PLAN H-70.10-02

SHEET 1 OF 2 SHEETS  
APPROVED FOR PUBLICATION  
Aug 17, 2021  
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Aug 17, 2021

**MAILBOX SUPPORT TYPE 1**  
STANDARD PLAN H-70.10-02

SHEET 2 OF 2 SHEETS  
APPROVED FOR PUBLICATION  
Aug 17, 2021  
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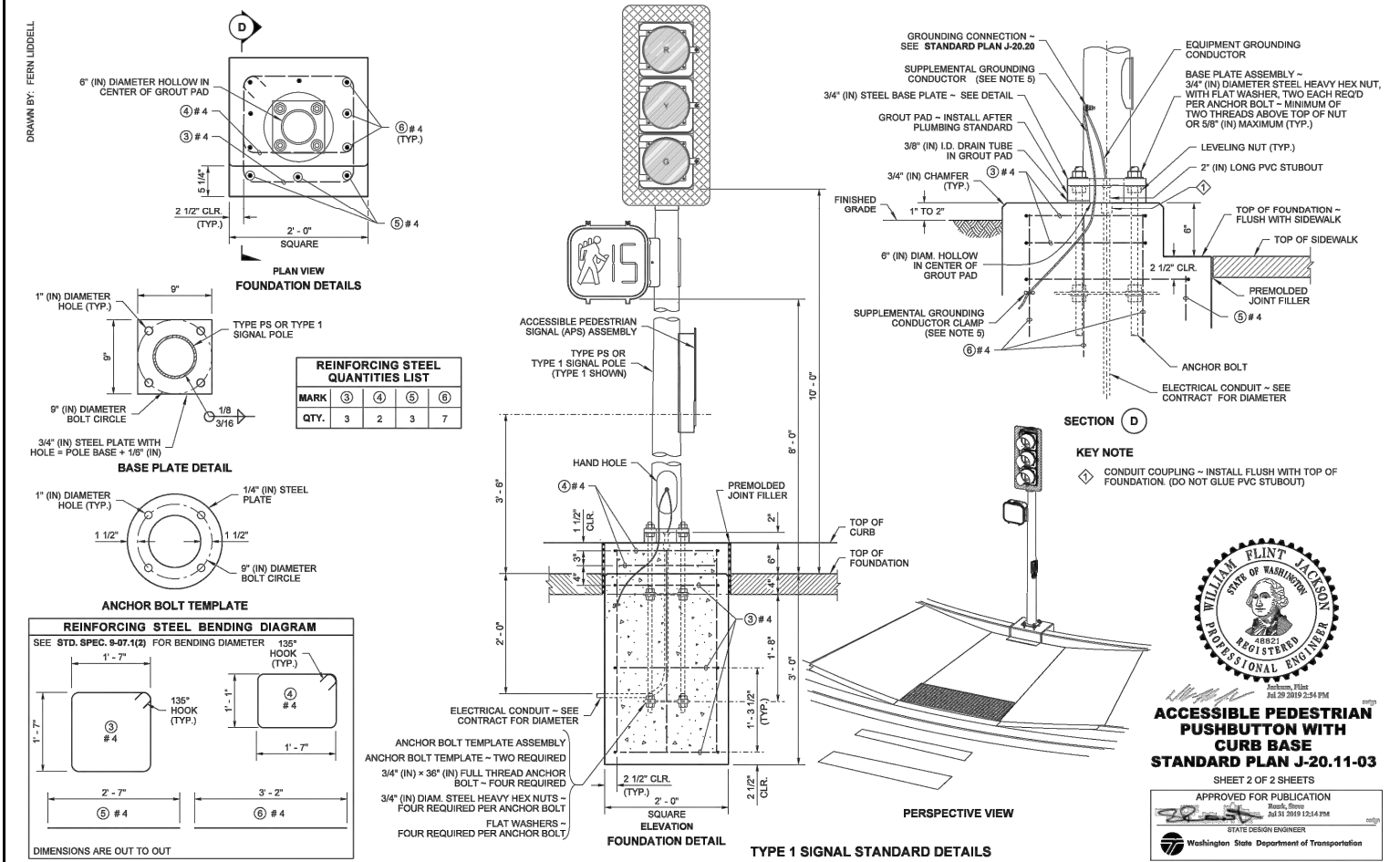
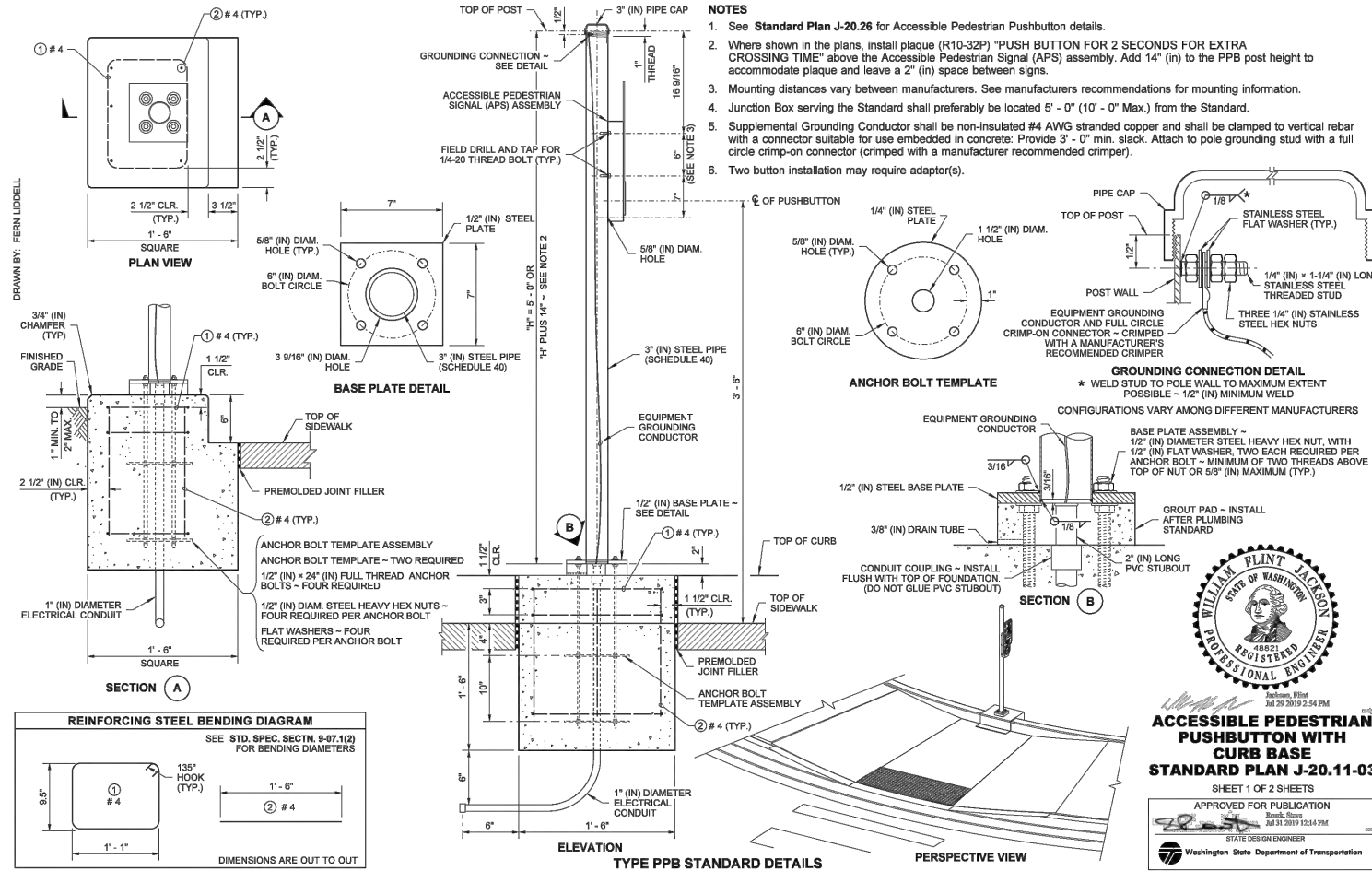
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.  
SHEET 119 OF 161 SHEETS

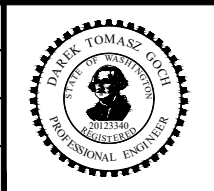
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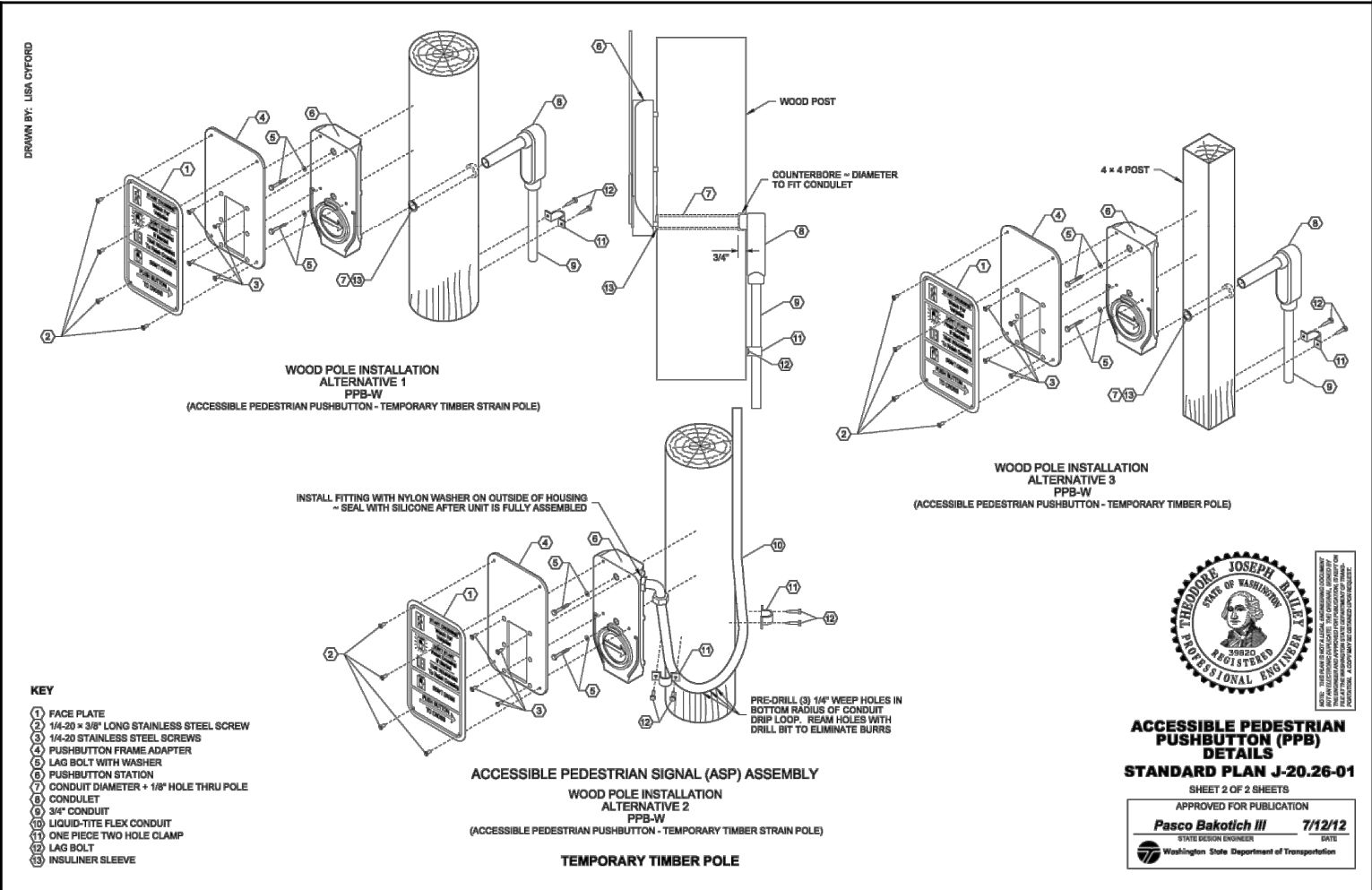
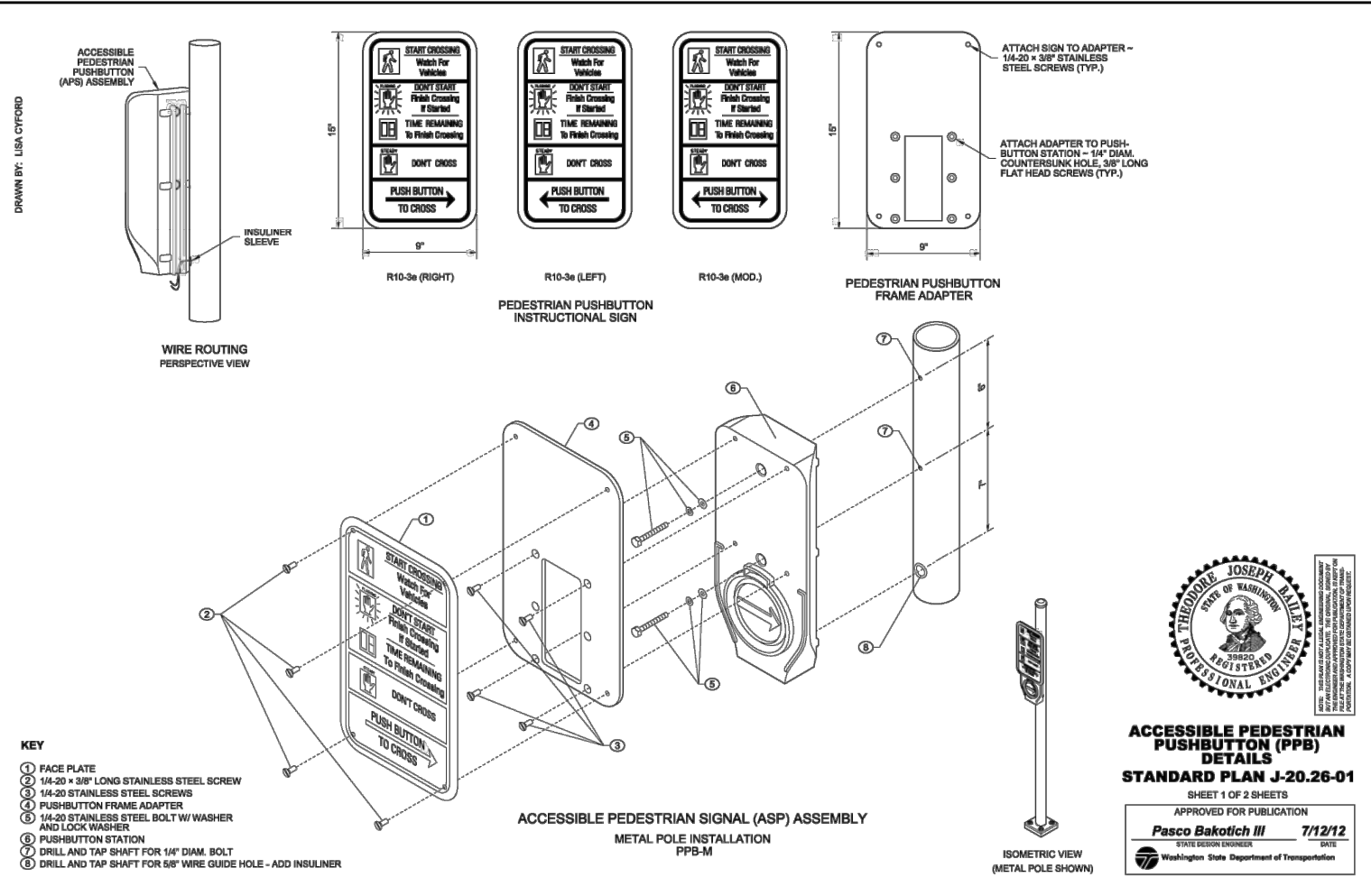
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**WSDOT STANDARD PLANS**

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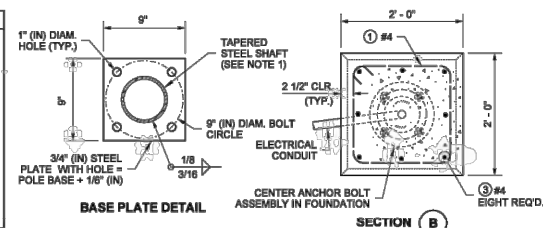
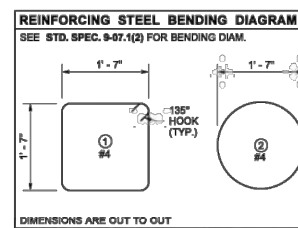
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

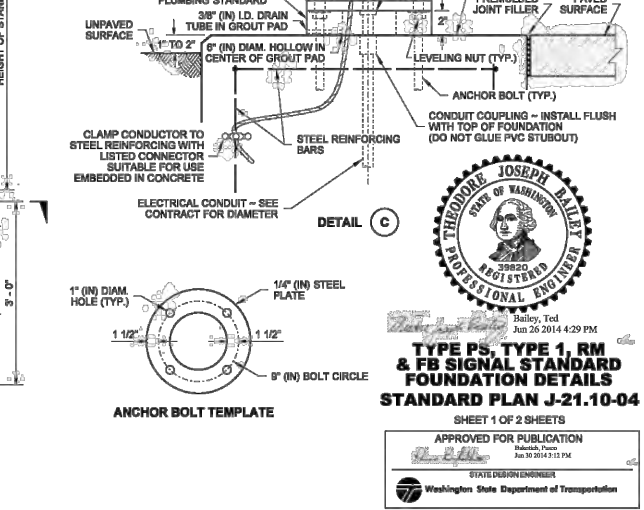
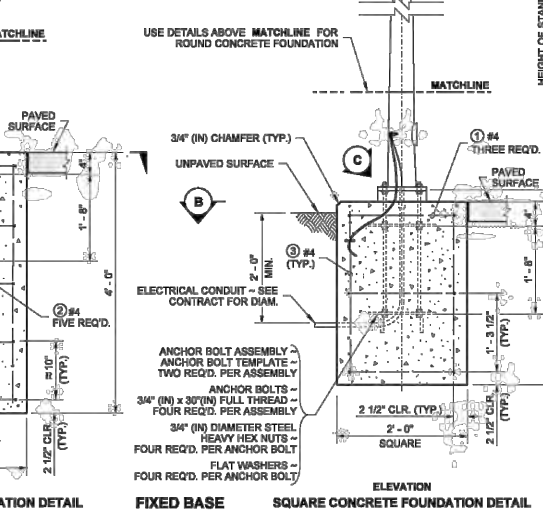
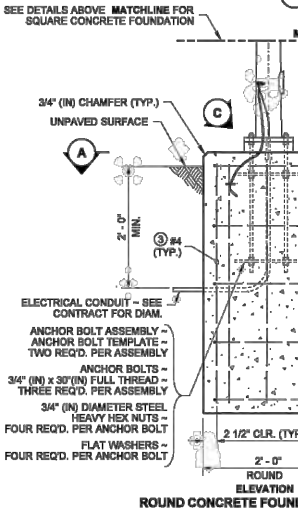
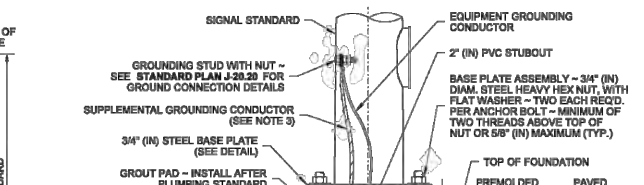
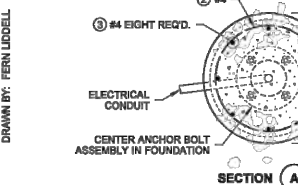
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SHEET 121 OF 161 SHEETS

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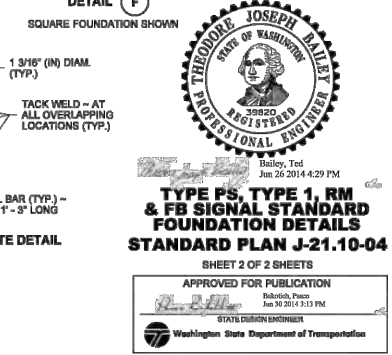
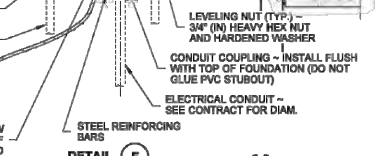
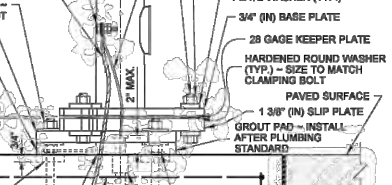
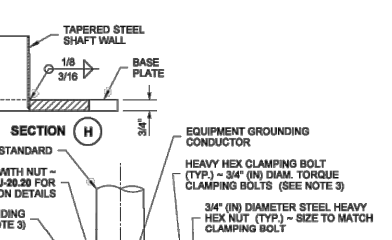
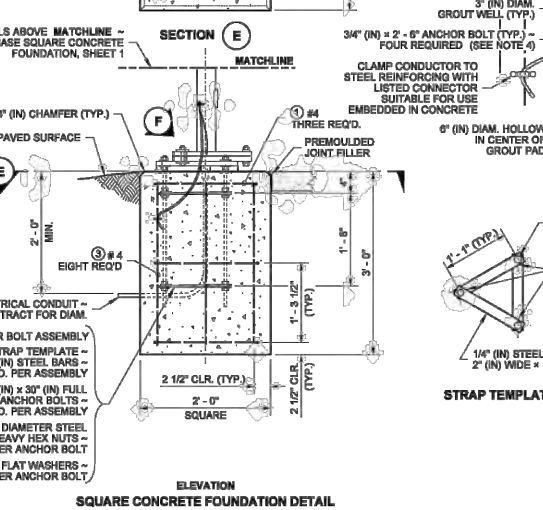
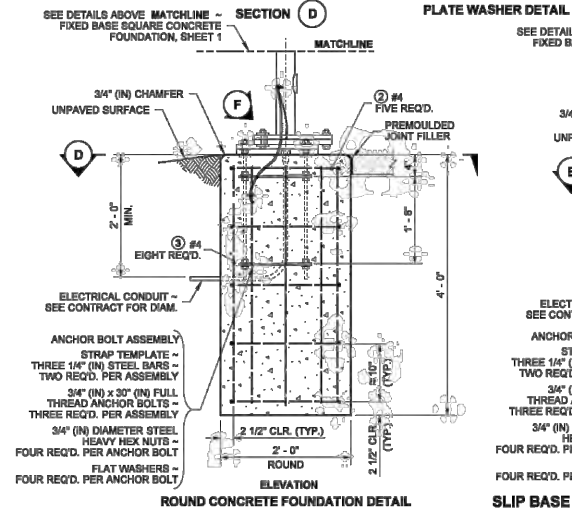
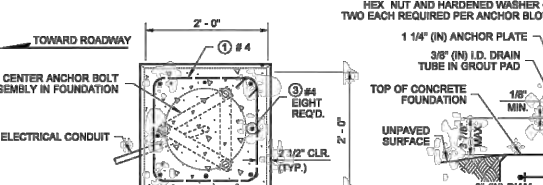
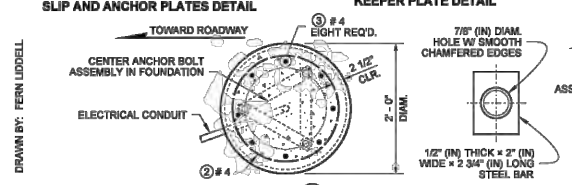
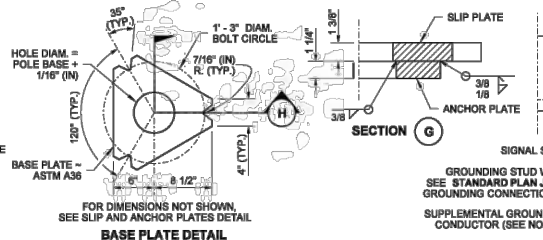
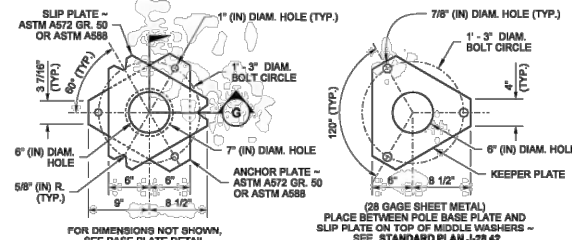


- NOTES**
- Clamping bolts shall be tightened to 50 ft-lbs max. torque. After state inspection, burr threads to prevent nut rotation. DO NOT OVERTIGHTEN.
  - The final height of the Anchor Bolts shall be below the top of the slip plate assembly to ensure proper function of the slip base.
  - Supplemental grounding conductor shall be non-insulated #4 AWG stranded copper and shall be clamped to vertical rebar with a connector suitable for use embedded in concrete. Provide 3' - 0" min. slack. Attach to pole grounding stud with a full circle crimp-on connector (crimped with a manufacturer recommended crimper).
  - Junction box serving the Standard shall preferably be located 5' - 0" (10' - 0" Max.) from the Standard.
  - Provide cable tie at wiring entering the junction box (for slip base installations only) - See Detail A, Standard Plan J-28.70.
  - Keeper Plate shall not extend beyond the edges of the pole base plate.



**TYPE PS, TYPE 1, RM & FB SIGNAL STANDARD FOUNDATION DETAILS**  
**STANDARD PLAN J-21.10-04**  
 SHEET 1 OF 2 SHEETS

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**TYPE PS, TYPE 1, RM & FB SIGNAL STANDARD FOUNDATION DETAILS**  
**STANDARD PLAN J-21.10-04**  
 SHEET 2 OF 2 SHEETS

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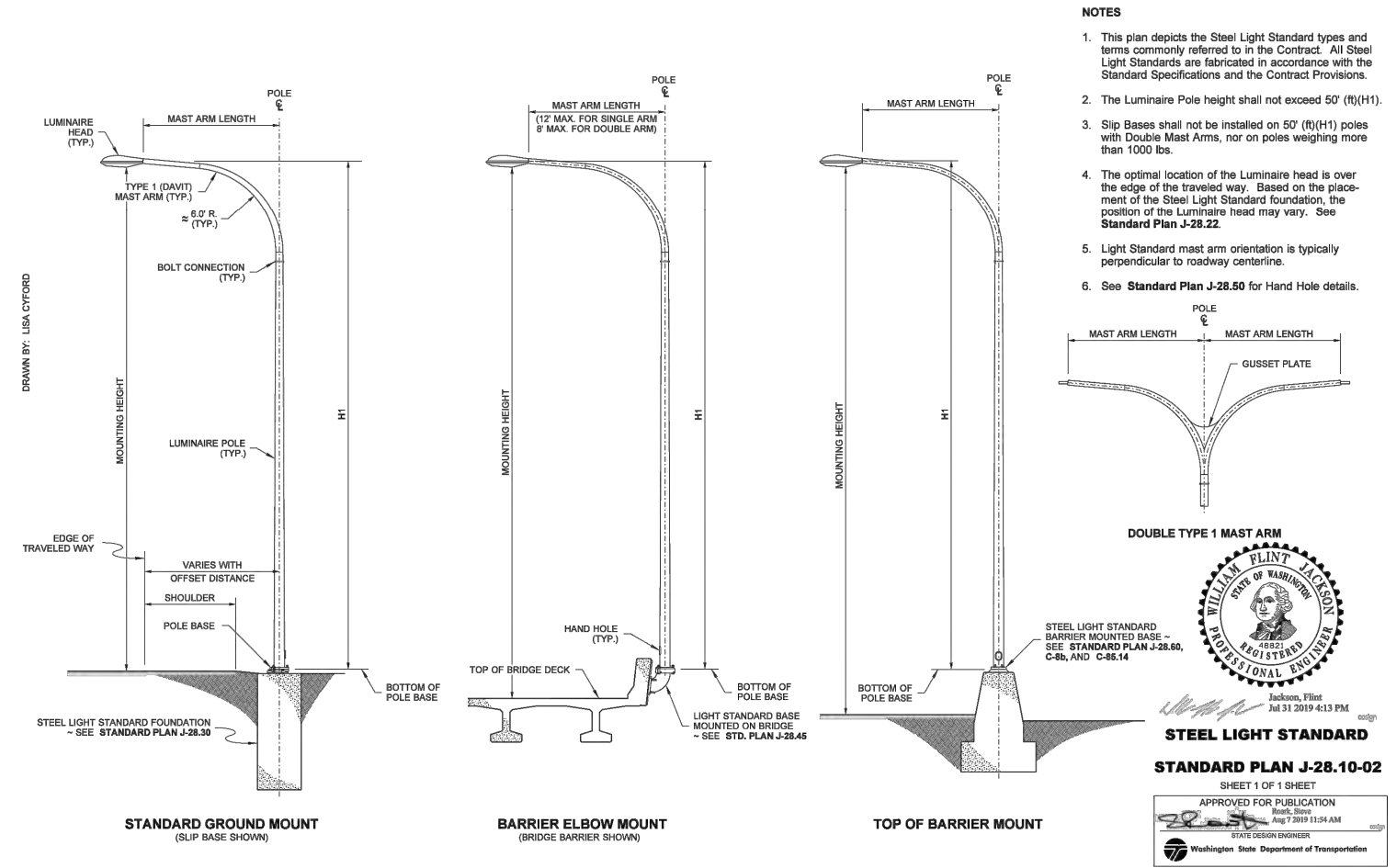
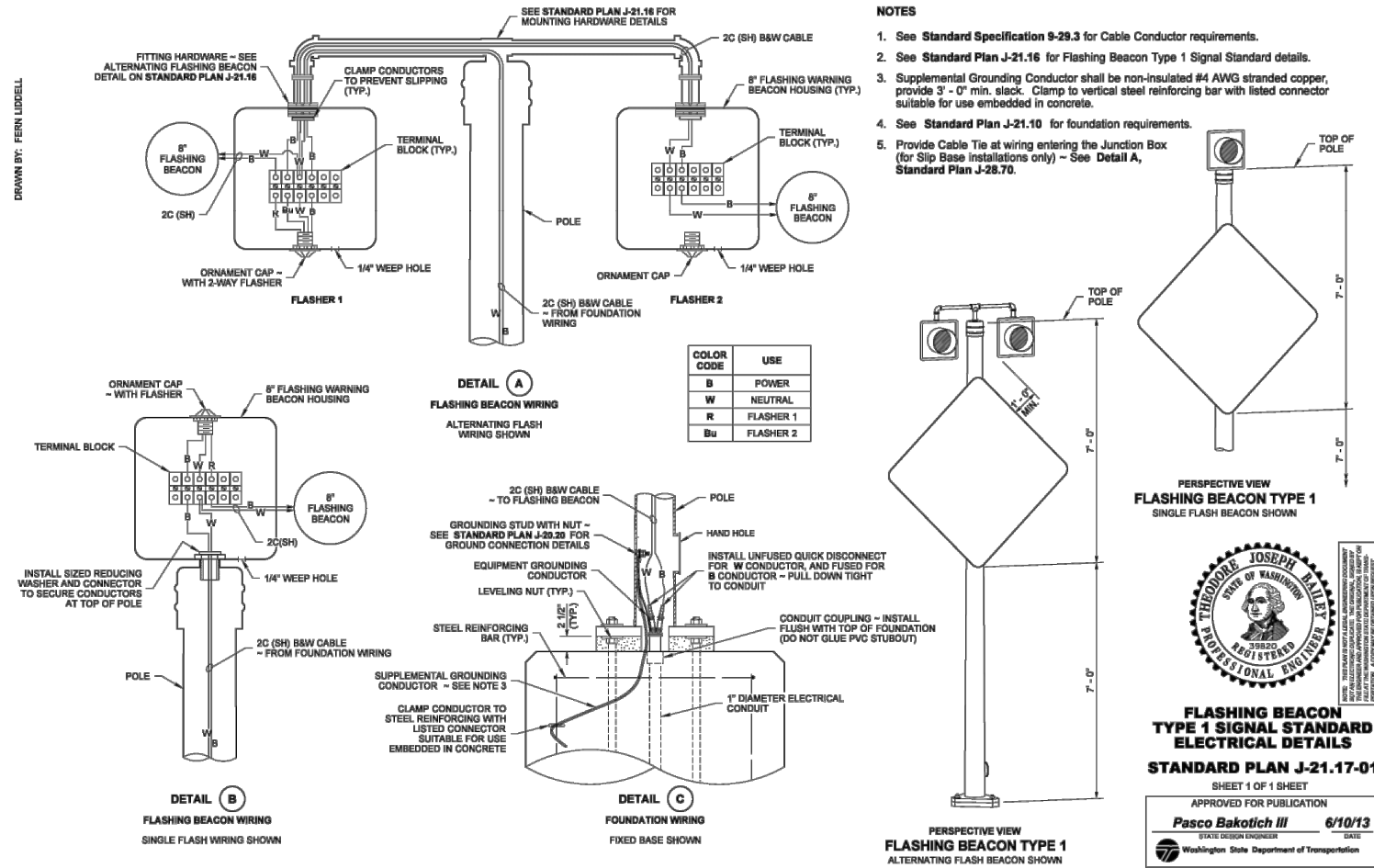
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.
SHEET 122 OF 161 SHEETS

September 16, 2023 - 8:02 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\DET05\_WSDOT.DWG - Layout Name: WSDOT DET08



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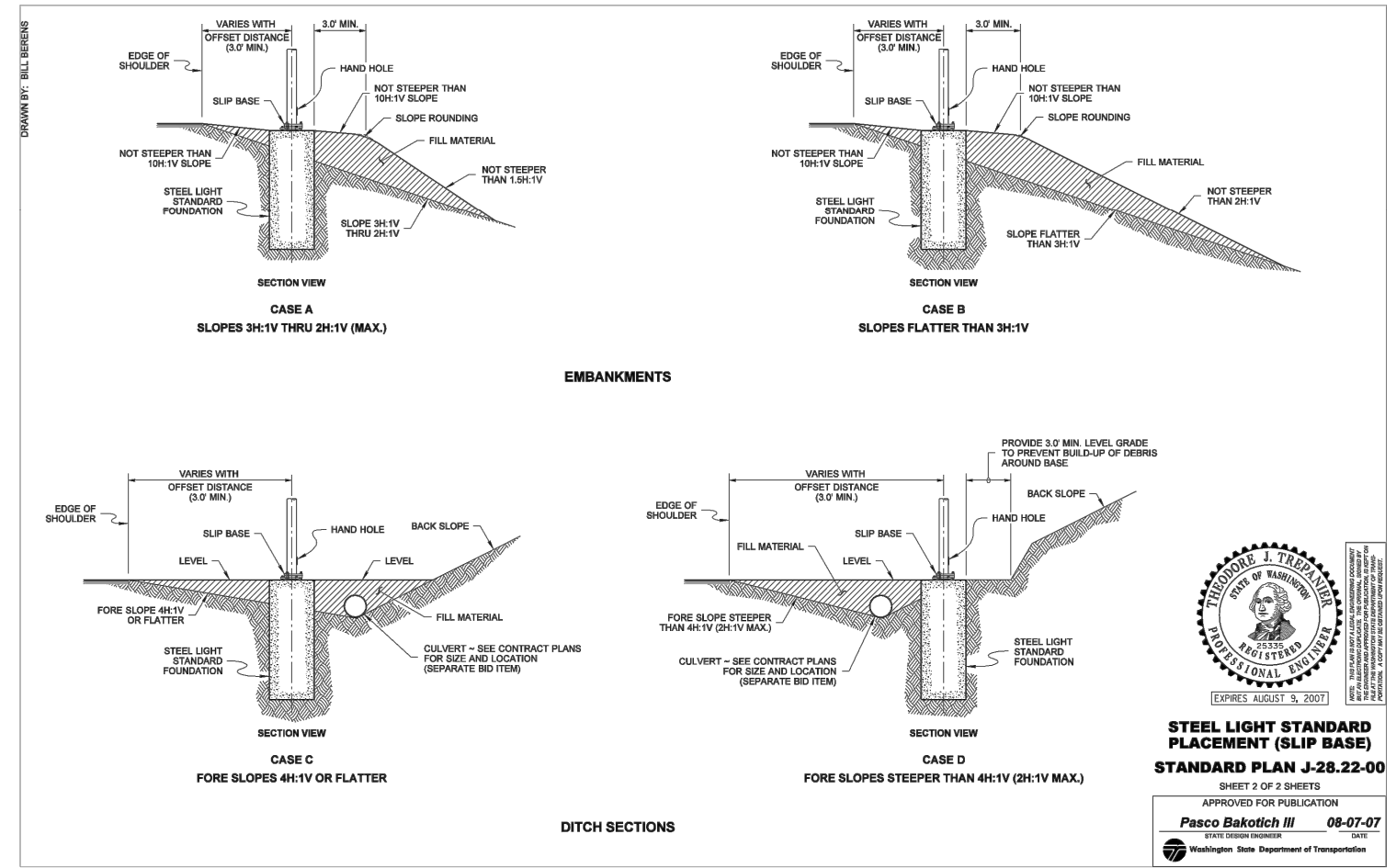
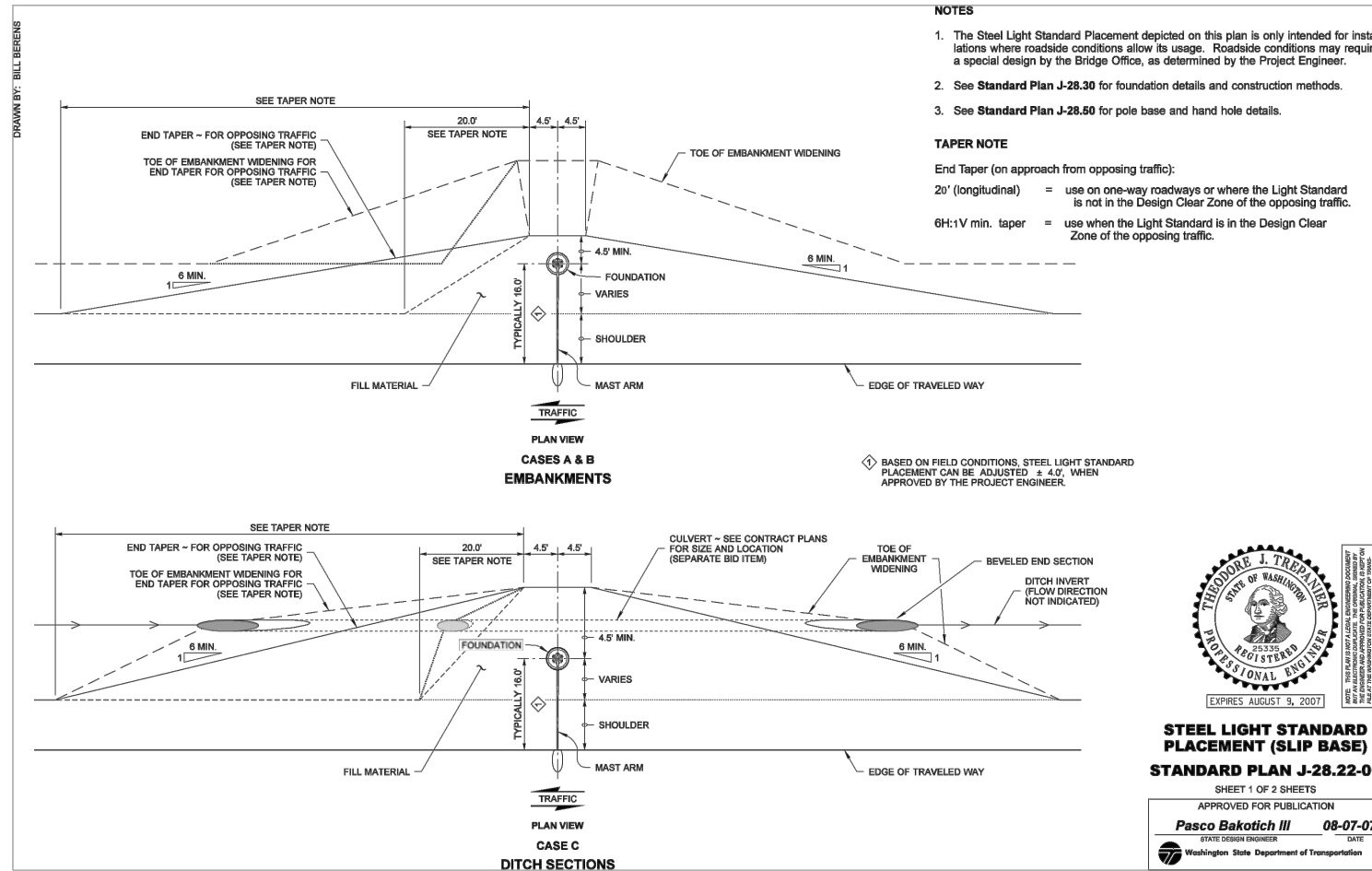
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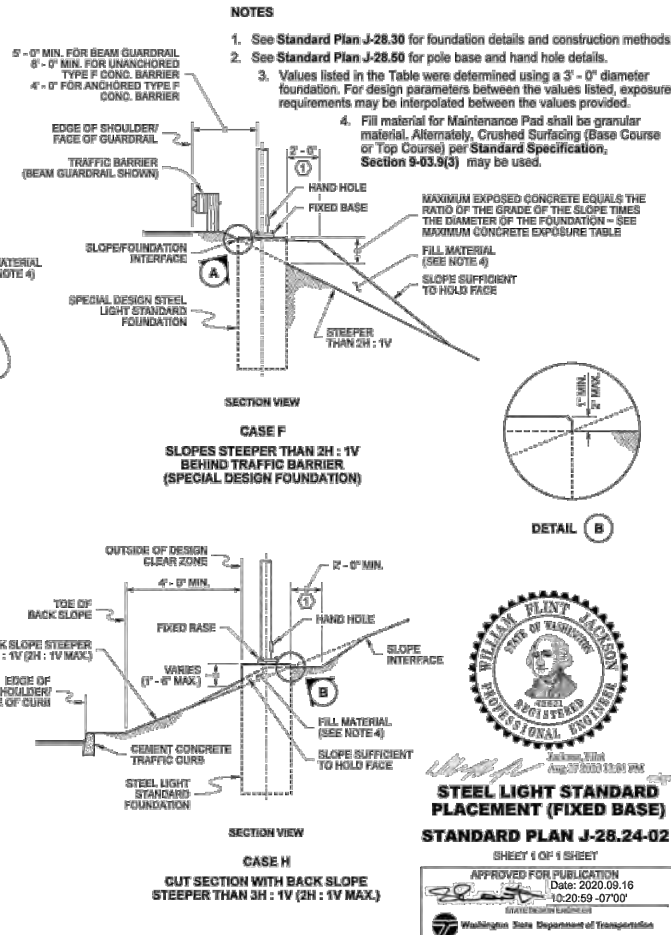
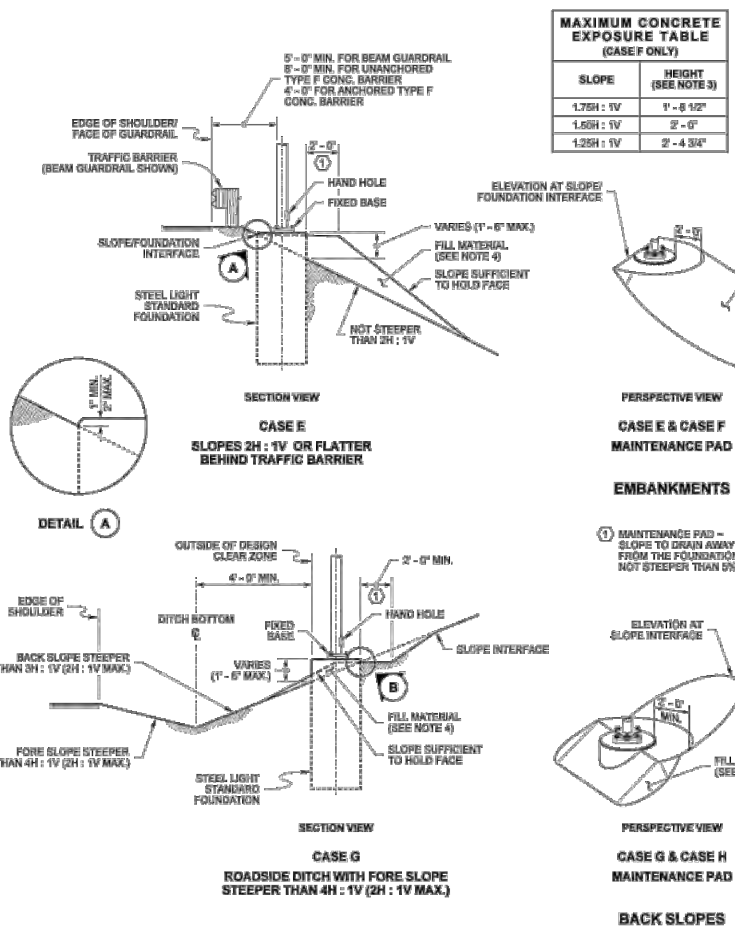


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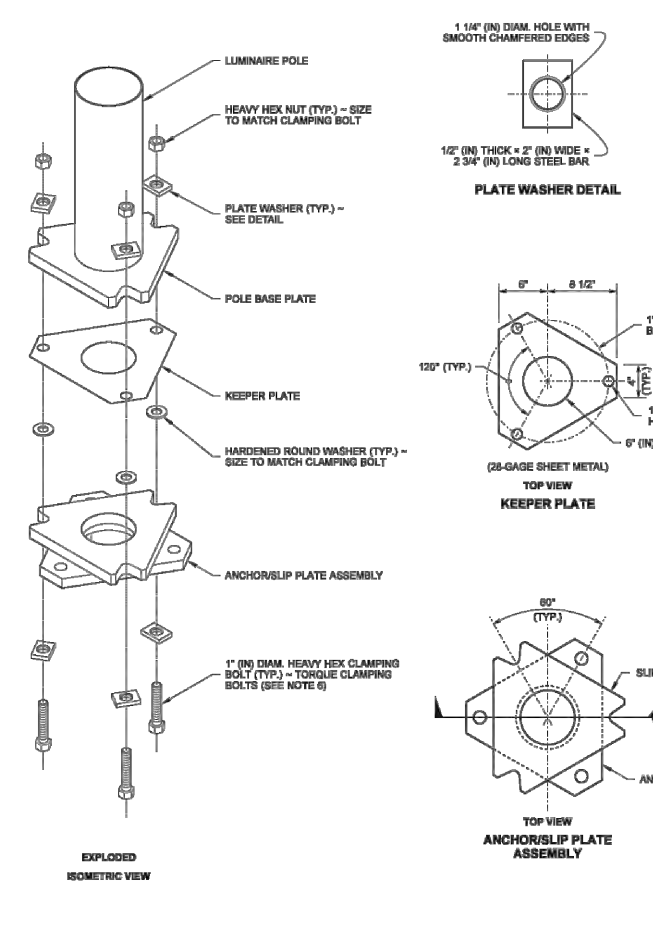
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**WSDOT STANDARD PLANS**

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DRAWN BY: COLBY FLETCHER



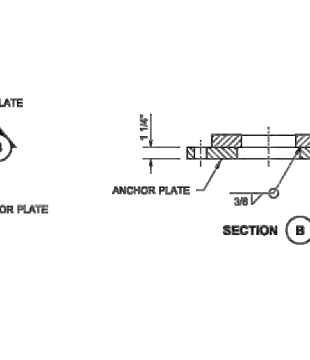
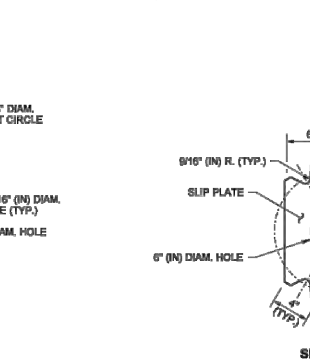
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**CLAMPING BOLT TABLE**

LUMINAIRE HEIGHT (FT) (H)	MAST ARM TYPE	MAST ARM LENGTH (FT)	CLAMPING BOLT DIAMETER (IN) "D"
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 45'	DOUBLE	6' TO 8'	1"
45' TO 50'	DOUBLE	6' TO 8'	1 1/4"
20' TO 45'	DOUBLE	10' TO 16'	1 1/4"
45' TO 50'	DOUBLE	10' TO 16'	1 1/2"

◆ SLIP BASE NOT ALLOWED



- NOTES**
- 50' (R) (H) poles with double mast arms or poles weighing in excess of 1000 lbs. shall not be installed on a slip base.
  - The Slip and Anchor Plates shall be manufactured from ASTM A572 GR.50 or ASTM A588. All Slip Plate notched surfaces shall be finished smooth.
  - The clamping bolts shall be high-strength steel, manufactured from AASHTO M 164, with heavy hex nut and hardened washer. Galvanize the Clamping Bolts according to AASHTO M 232.
  - Round and smooth all edges along wire-way to protect the conductors. See Standard Plan J-28.70 for wiring details.
  - Galvanize the Anchor/Slip Plate after fabrication according to AASHTO M 111.
  - Clamping Bolt diameters may vary on existing installations. Replace them with the same size as the originals when repairing or reusing a luminaire pole. For 1" (in) clamping bolts, tighten to 95 ft-lbs. For 1 1/4" (in) clamping bolts, tighten to 104 ft-lbs. DO NOT OVERTIGHTEN. After state inspection, burr threads to prevent nut rotation.

**RICHARD P. ZELDENRIST**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
No. 35470  
Exp. 10/31/24 AM

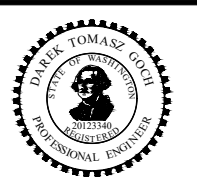
**STEEL LIGHT STANDARD ANCHOR/SLIP PLATE FOR SLIP BASE**  
STANDARD PLAN J-28.42-01  
SHEET 1 OF 1 SHEET

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Date: 2020.09.16  
12:20:59 - 0700  
Washington State Department of Transportation

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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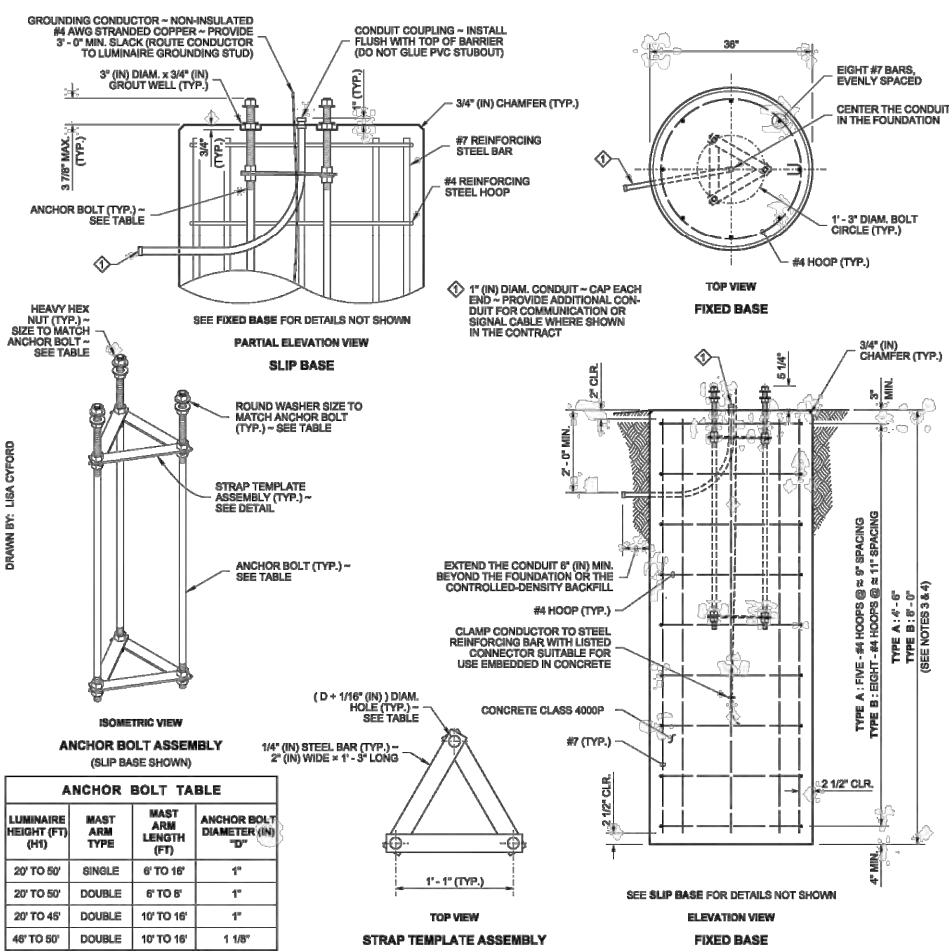
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**WSDOT STANDARD PLANS**

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ANCHOR BOLT TABLE			
LUMINAIRE HEIGHT (FT) (H1)	MAST ARM TYPE	MAST ARM LENGTH (FT)	ANCHOR BOLT DIAMETER (IN) "D"
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 50'	DOUBLE	6' TO 6'	1"
20' TO 45'	DOUBLE	10' TO 16'	1"
45' TO 50'	DOUBLE	10' TO 16'	1 1/8"

- NOTES**
- See Standard Plan J-28.40 for Luminaire Pole base mounting details.
  - The Strap Templates shall be held in place by nuts, 6" (in) from the top of the foundation and 3" (in) from the bottom of the anchor bolts. Eighteen heavy duty hex nuts and six round washers are required for a slip base assembly. Eighteen heavy duty hex nuts and six plate washers are required for a fixed base assembly.
  - Use Steel Light Standard Foundation Type A on level ground or slopes not exceeding 4H : 1V. Use Type B for slopes steeper than 4H : 1V, but not exceeding 2H : 1V. Slopes steeper than 2H : 1V shall require a special design.
  - These foundations are designed for a minimum of 2000 PSF (TYPE A) or 1500 PSF (TYPE B) allowable lateral bearing pressure for the soil. A special foundation shall be required for soil with allowable lateral bearing pressure lower than 1500 PSF.
  - The Luminaire Pole height shall not exceed 50' (H1).
  - Slip bases shall not be installed on 50' (H1) poles with Double Mast Arms, nor on poles weighing more than 1000 lbs.
  - Slip bases are required on poles installed inside the Design Clear Zone, and on poles installed behind traffic barrier that are within the traffic barrier deflection zone.
  - Foundations constructed within Media Filter Drains shall be increased in depth by the depth of the Media Filter Drain.
  - Exposed portions of the foundation shall be formed to create a Class 2 surface finish. All forming shall be removed upon completion of foundation construction.
  - For excavation, concrete placement, and backfill options, see METHOD 1 and METHOD 2 on Sheet 2 of 2.
  - The anchor bolts shall be high-strength steel, manufactured from ASTM F1554 Grade 105, with heavy hex nuts and hardened washers. Galvanize the anchor bolts according to ASTM F2329.
  - The foundation shall be grounded in accordance with the requirements of Standard Specification 8-20.3(4).
  - See Standard Plans C-8b and C-85.14 for steel light standards on traffic barrier.

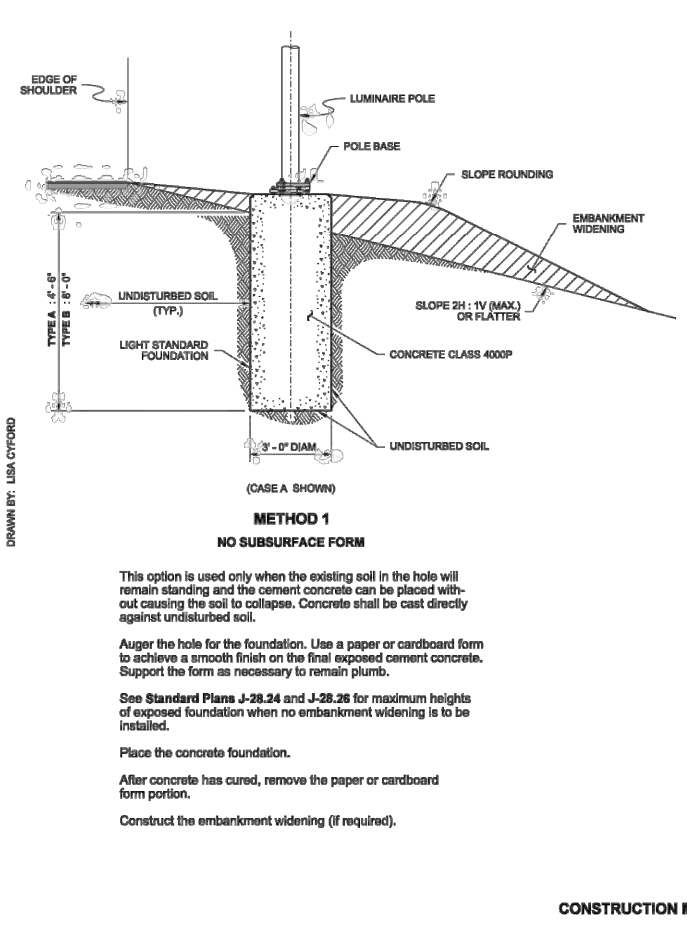
Richard P. Zeldenz  
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PROFESSIONAL ENGINEER  
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MECHANICAL ENGINEERING

Zeldenz, Richard  
Jun 10 2014 10:37 AM

**STEEL LIGHT STANDARD FOUNDATION TYPES A & B**  
STANDARD PLAN J-28.30-03  
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION  
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**METHOD 1**  
NO SUBSURFACE FORM

This option is used only when the existing soil in the hole will remain standing and the cement concrete can be placed without causing the soil to collapse. Concrete shall be cast directly against undisturbed soil.

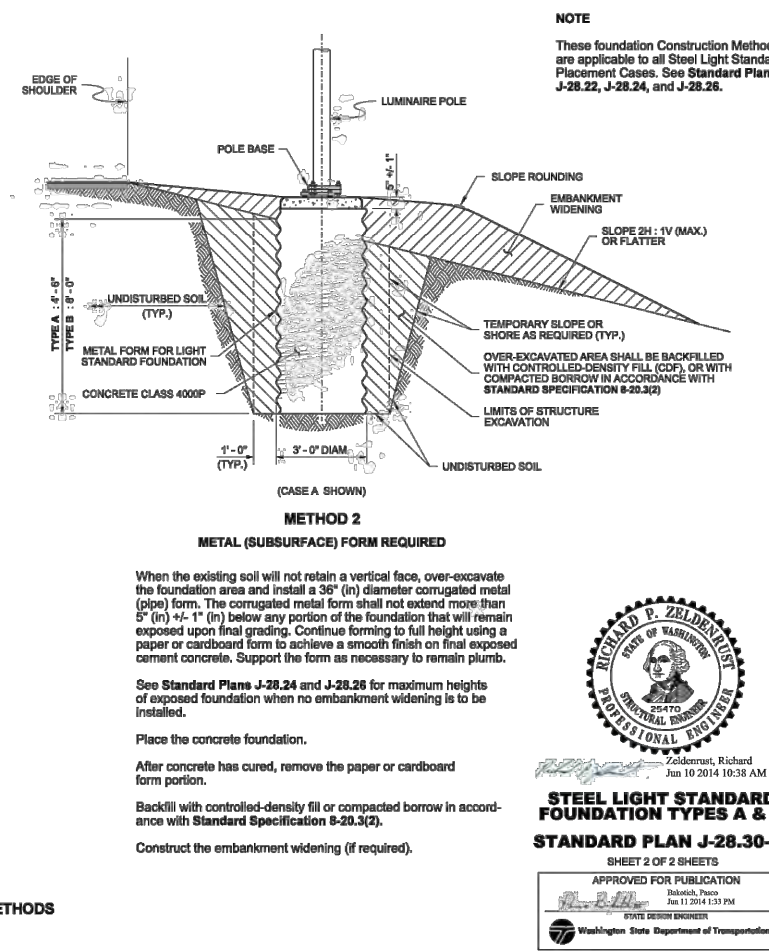
Auger the hole for the foundation. Use a paper or cardboard form to achieve a smooth finish on the final exposed cement concrete. Support the form as necessary to remain plumb.

See Standard Plans J-28.24 and J-28.26 for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Construct the embankment widening (if required).



**METHOD 2**  
METAL (SUBSURFACE) FORM REQUIRED

When the existing soil will not retain a vertical face, over-excavate the foundation area and install a 36" (in) diameter corrugated metal (pipe) form. The corrugated metal form shall not extend more than 6" (in) +/- 1" (in) below any portion of the foundation that will remain exposed upon final grading. Continue forming to full height using a paper or cardboard form to achieve a smooth finish on final exposed cement concrete. Support the form as necessary to remain plumb.

See Standard Plans J-28.24 and J-28.26 for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Backfill with controlled-density fill or compacted borrow in accordance with Standard Specification 8-20.3(2).

Construct the embankment widening (if required).

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Zeldenz, Richard  
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**STEEL LIGHT STANDARD FOUNDATION TYPES A & B**  
STANDARD PLAN J-28.30-03  
SHEET 2 OF 2 SHEETS

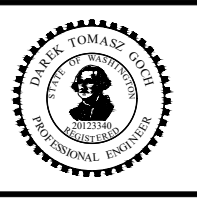
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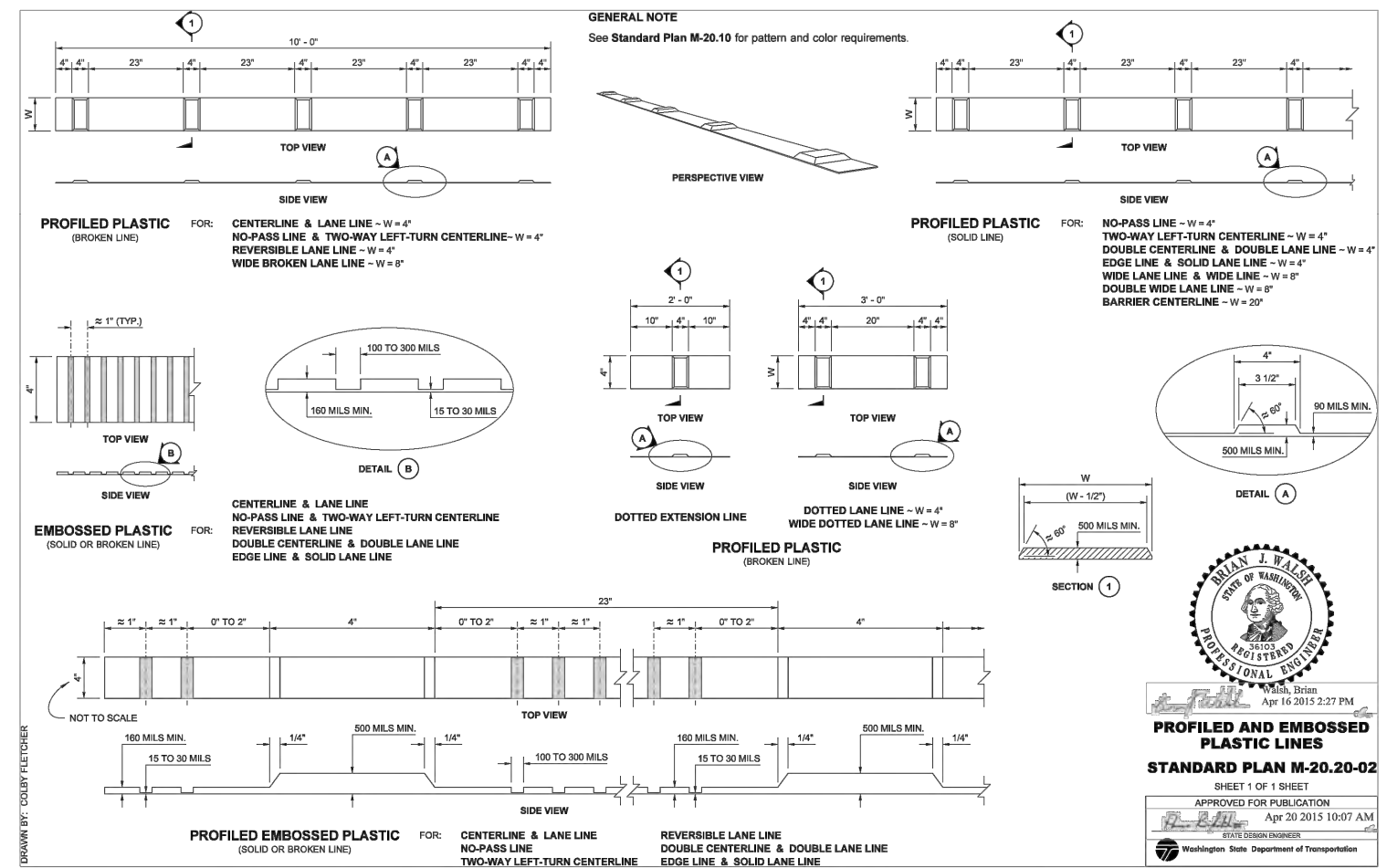
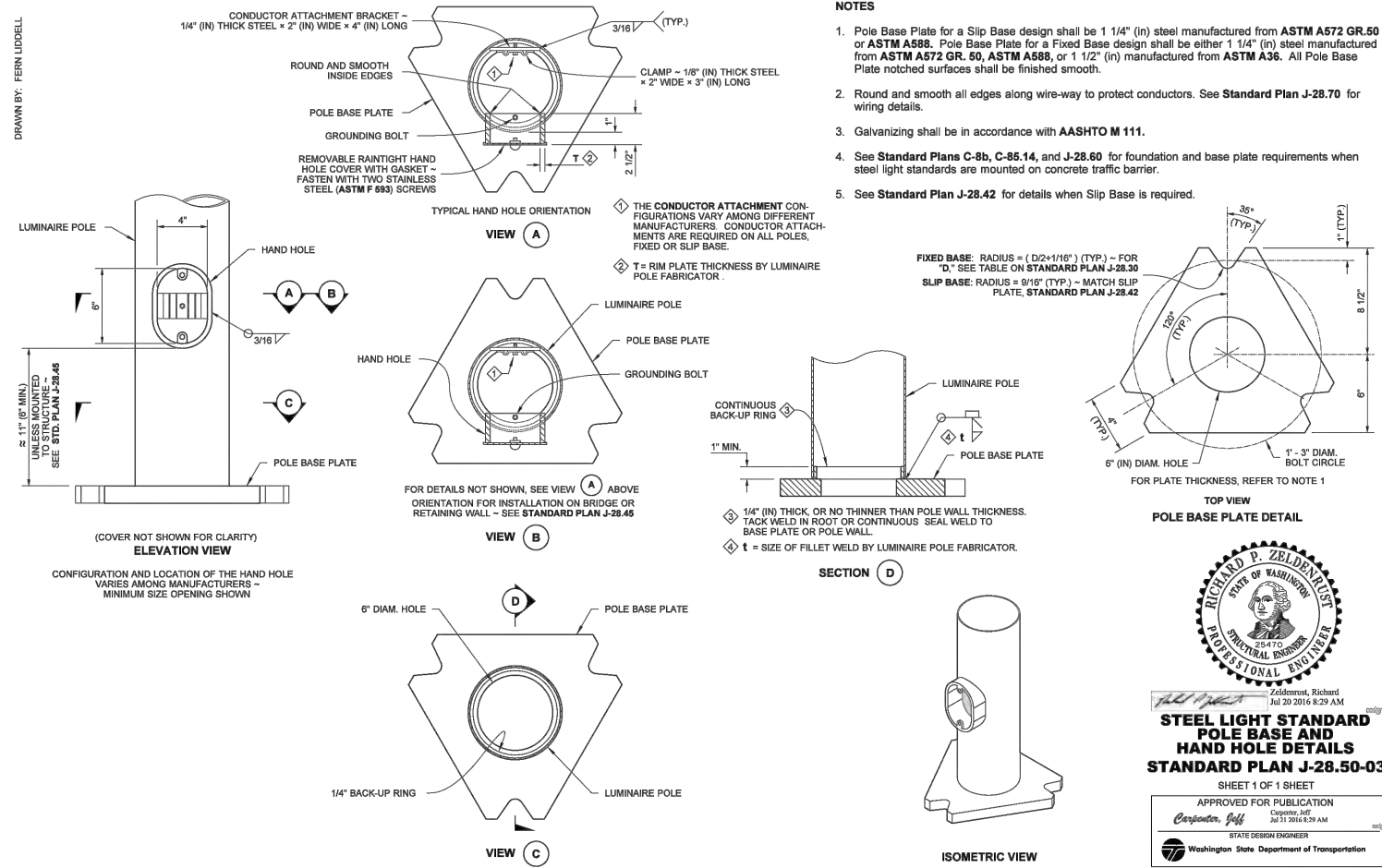
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**WSDOT STANDARD PLANS**

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SHEET 126 OF 161 SHEETS

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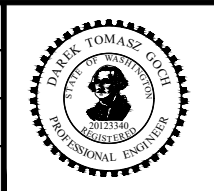
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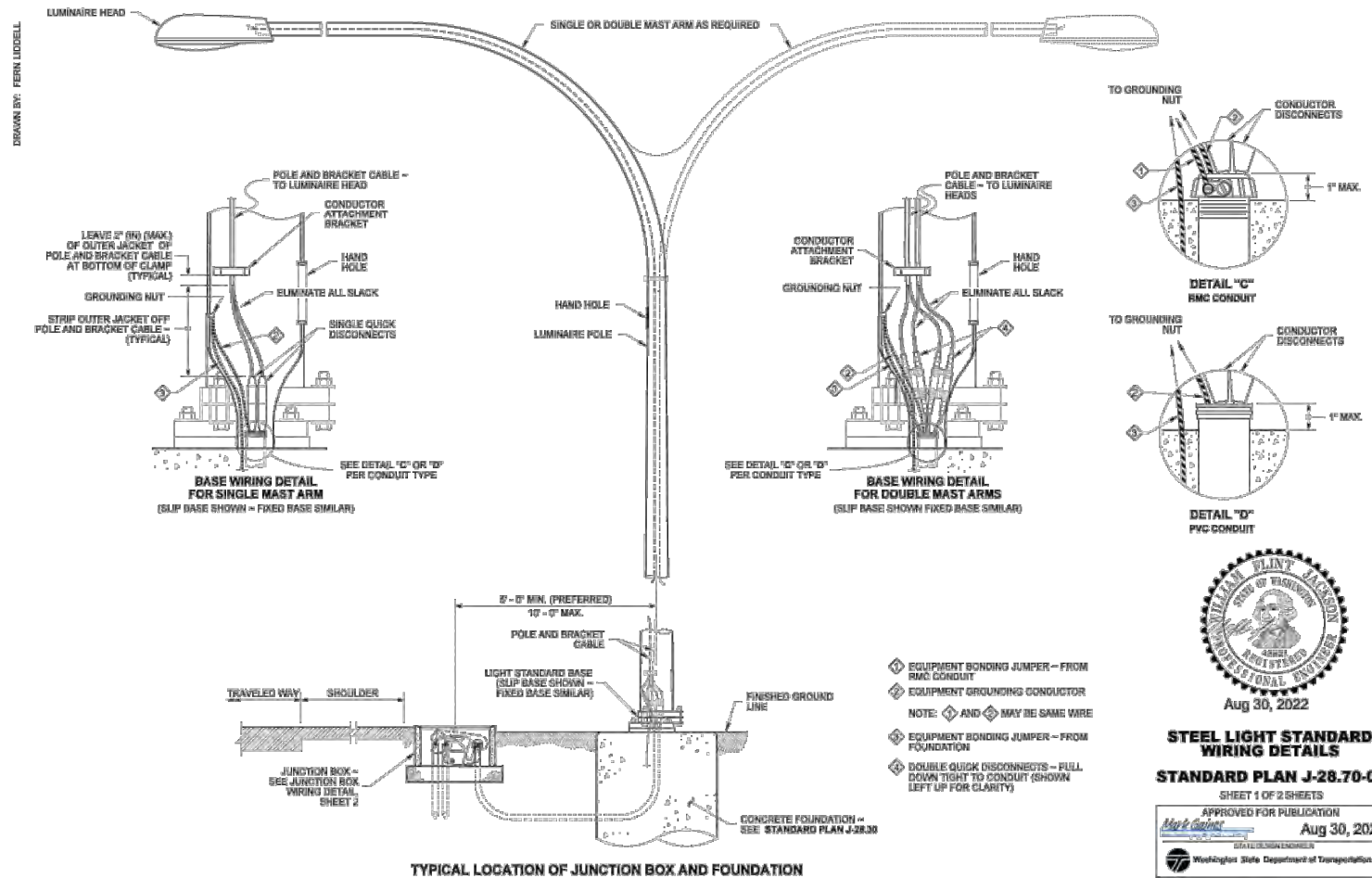
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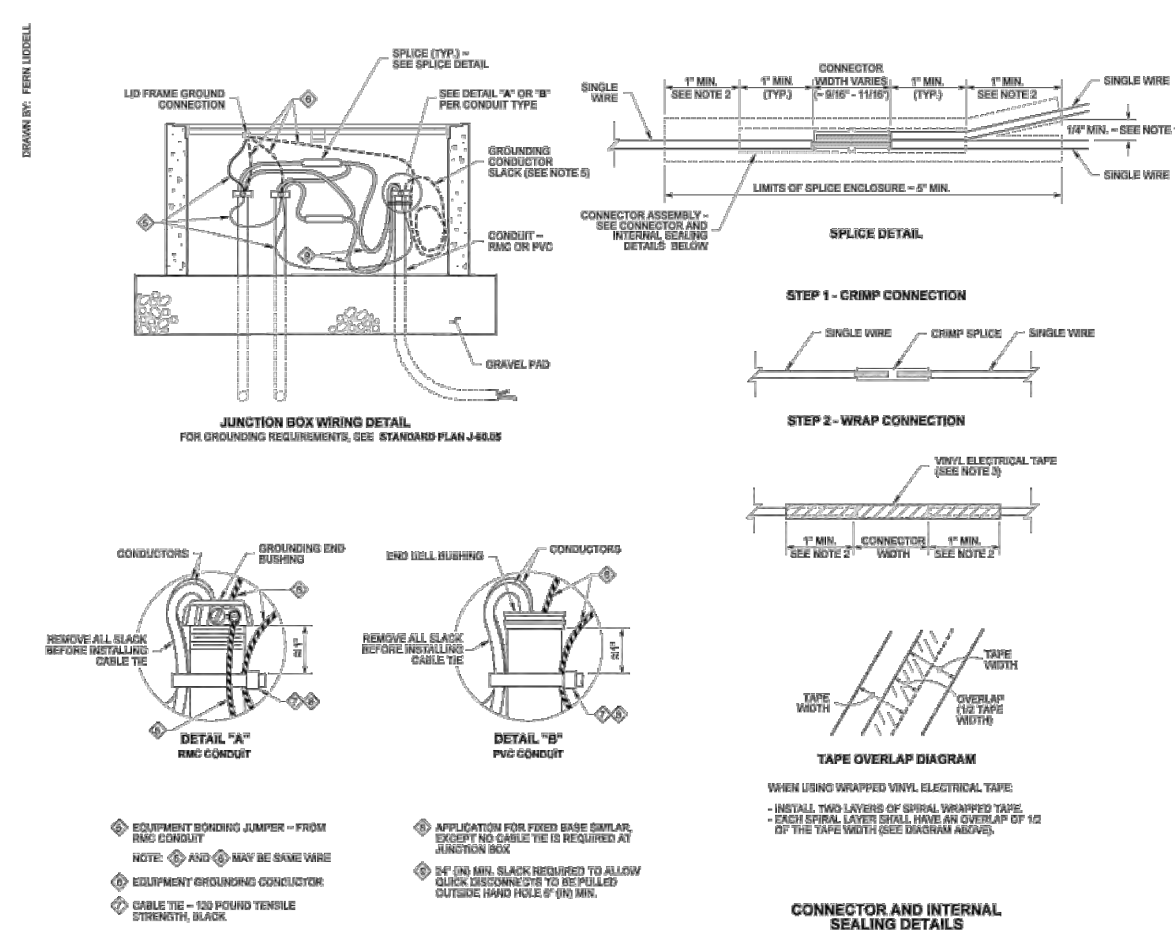
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**STEEL LIGHT STANDARD WIRING DETAILS**  
**STANDARD PLAN J-28.70-04**  
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APPROVED FOR PUBLICATION  
Aug 30, 2022  
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PROFESSIONAL ENGINEER  
Washington State Department of Transportation

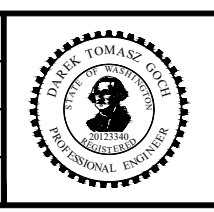


**STEEL LIGHT STANDARD WIRING DETAILS**  
**STANDARD PLAN J-28.70-04**  
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Aug 30, 2022  
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DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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**NOTES**

- Dotted Extension Line shall be the same color as the line it is extending.
- Edge Line shall be white on the right edge of traveled way, and yellow on the left edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
- The distance between the lines of the Double Centerline shall be 12" everywhere, except 4" for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4" distance for all locations. The distance between the lines of the Double Lane Line shall be 4".

**LONGITUDINAL MARKING PATTERNS**  
STANDARD PLAN M-20.10-04  
SHEET 1 OF 4 SHEETS  
APPROVED FOR PUBLICATION  
Aug 2, 2022  
Mark Gaines, STATE DESIGN ENGINEER  
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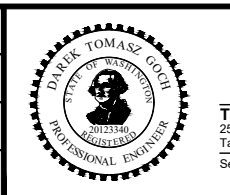
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**LONGITUDINAL MARKING PATTERNS**  
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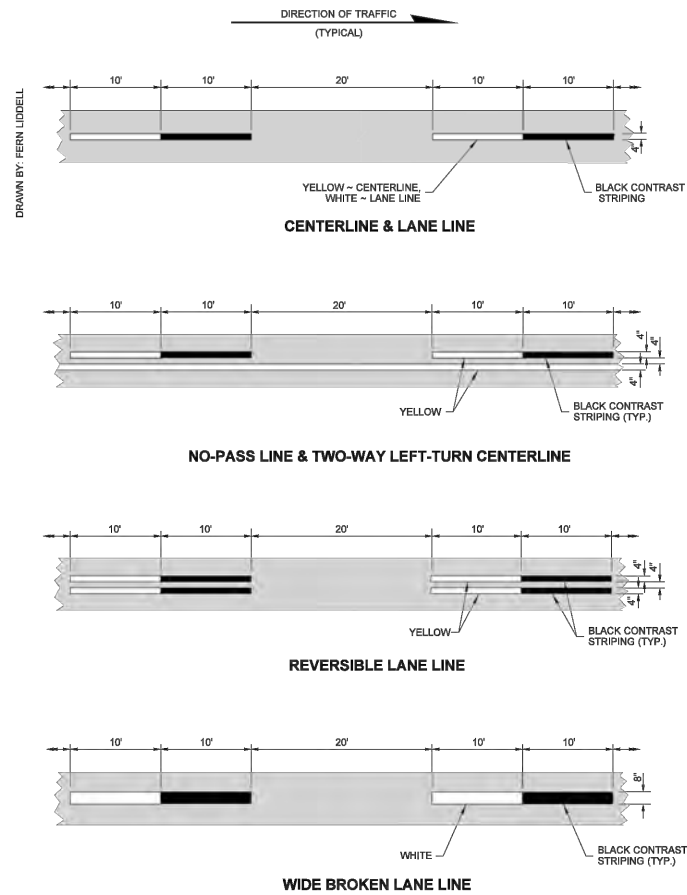
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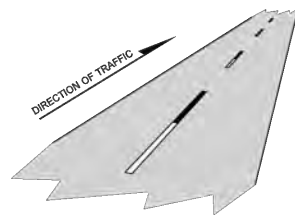
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REFERENCE SHEET NO.  
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September 16, 2023 - 8:02 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\DET06\_WSDOT.DWG - Layout Name: WSDOT DET15



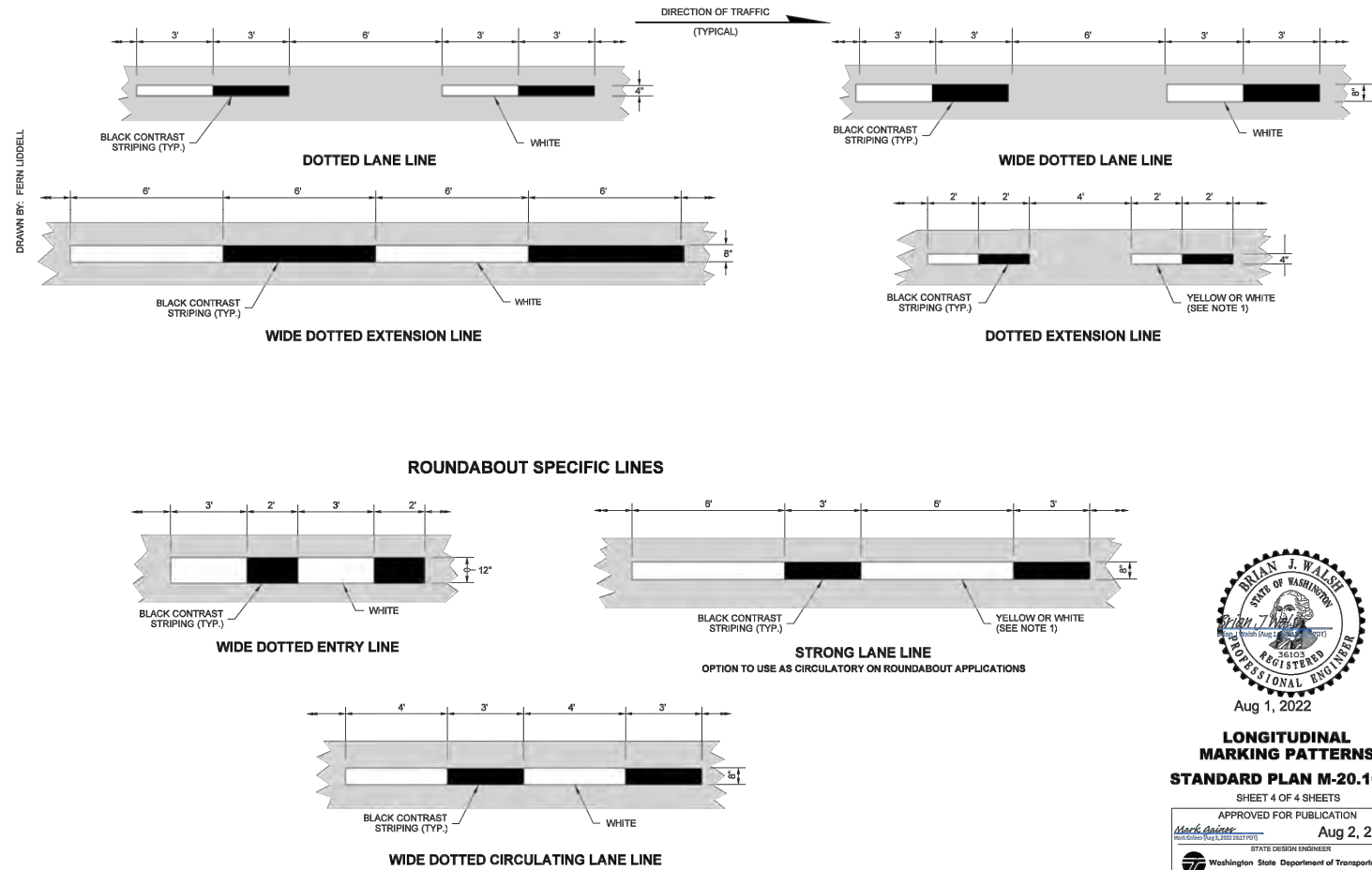
**NOTE**  
 1. Dotted Extension Line shall be the same color as the line it is extending.



Aug 1, 2022

**LONGITUDINAL MARKING PATTERNS**  
 STANDARD PLAN M-20.10-04

SHEET 3 OF 4 SHEETS  
 APPROVED FOR PUBLICATION  
 Mark Gaines, STATE DESIGN ENGINEER  
 Aug 2, 2022  
 Washington State Department of Transportation



Aug 1, 2022

**LONGITUDINAL MARKING PATTERNS**  
 STANDARD PLAN M-20.10-04

SHEET 4 OF 4 SHEETS  
 APPROVED FOR PUBLICATION  
 Mark Gaines, STATE DESIGN ENGINEER  
 Aug 2, 2022  
 Washington State Department of Transportation

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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DESIGNED BY: WSDOT	9/2023
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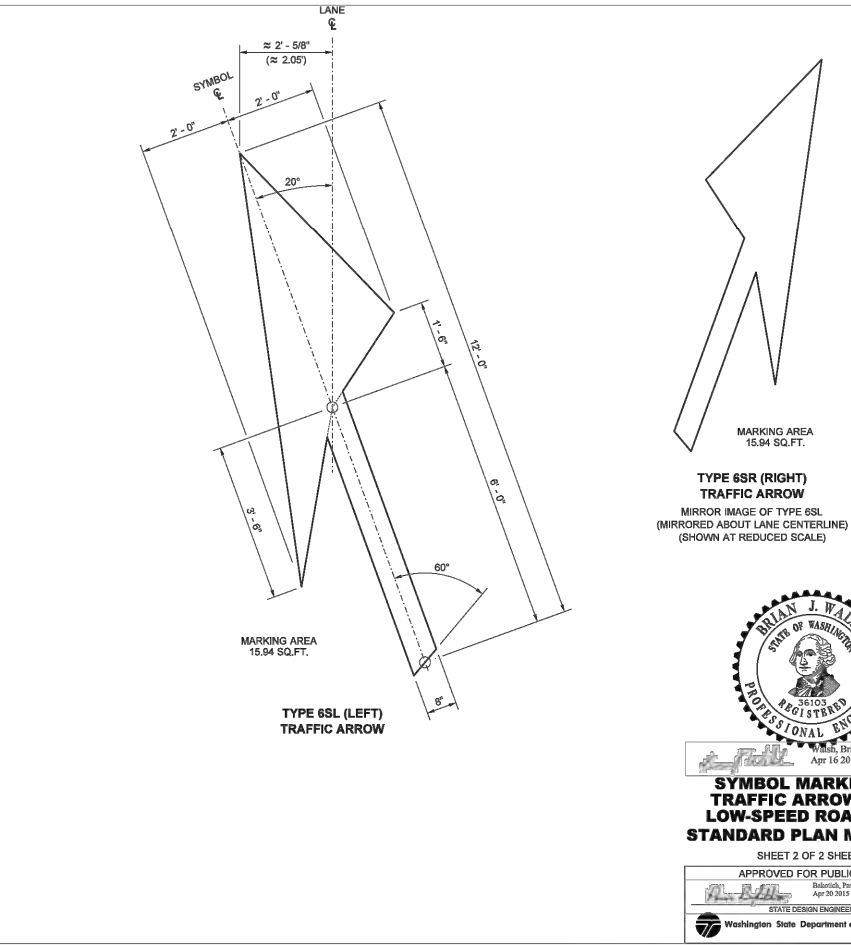
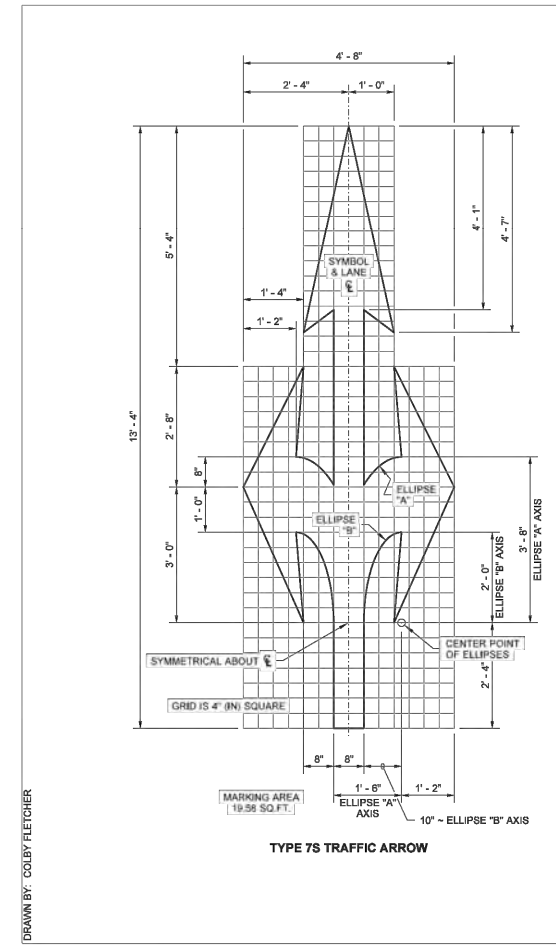
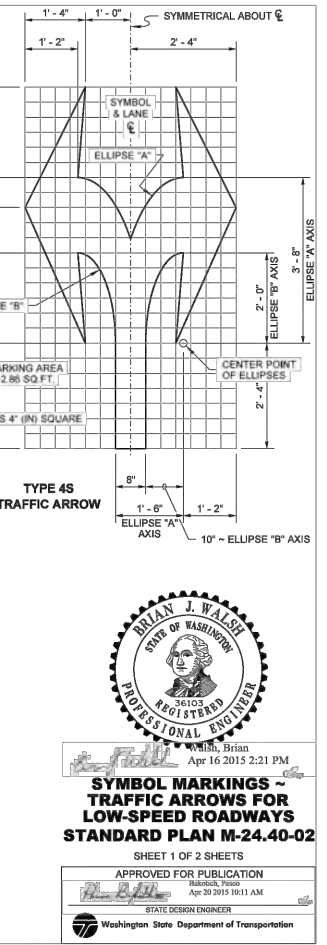
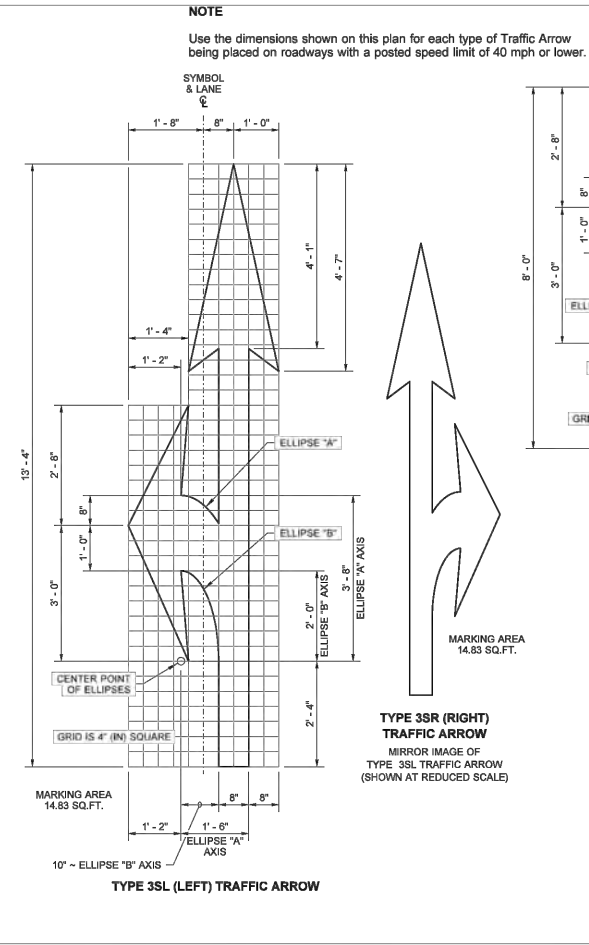
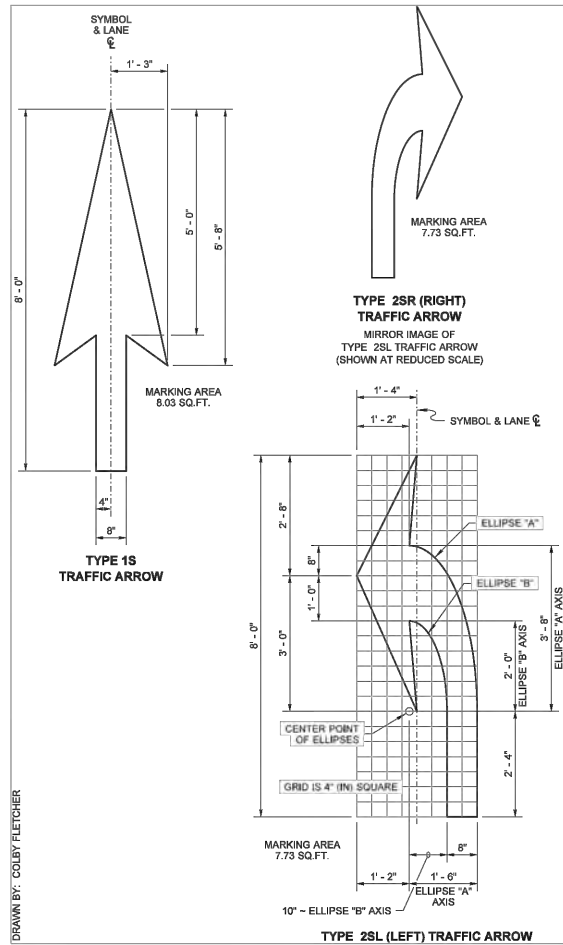
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.

SHEET 130 OF 161 SHEETS

September 16, 2023 - 8:02 PM - VONNIE.STOCKMAN - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\DET06\_WSDOT.DWG - Layout Name: WSDOT DET16



**NOTE**  
Use the dimensions shown on this plan for each type of Traffic Arrow being placed on roadways with a posted speed limit of 40 mph or lower.



**SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW-SPEED ROADWAYS**  
STANDARD PLAN M-24.40-02  
SHEET 1 OF 2 SHEETS  
APPROVED FOR PUBLICATION  
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STATE DESIGN ENGINEER  
Washington State Department of Transportation



**SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW-SPEED ROADWAYS**  
STANDARD PLAN M-24.40-02  
SHEET 2 OF 2 SHEETS  
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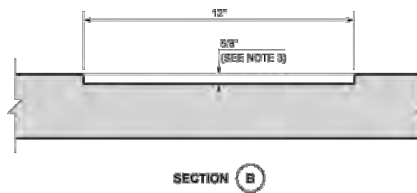
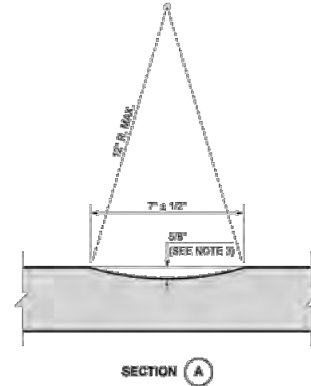
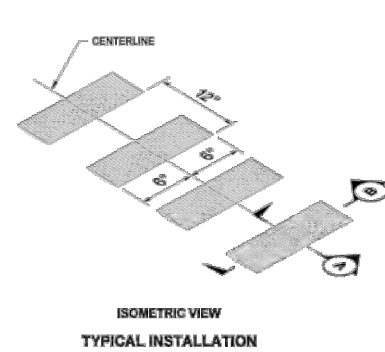
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.
SHEET 131 OF 161 SHEETS

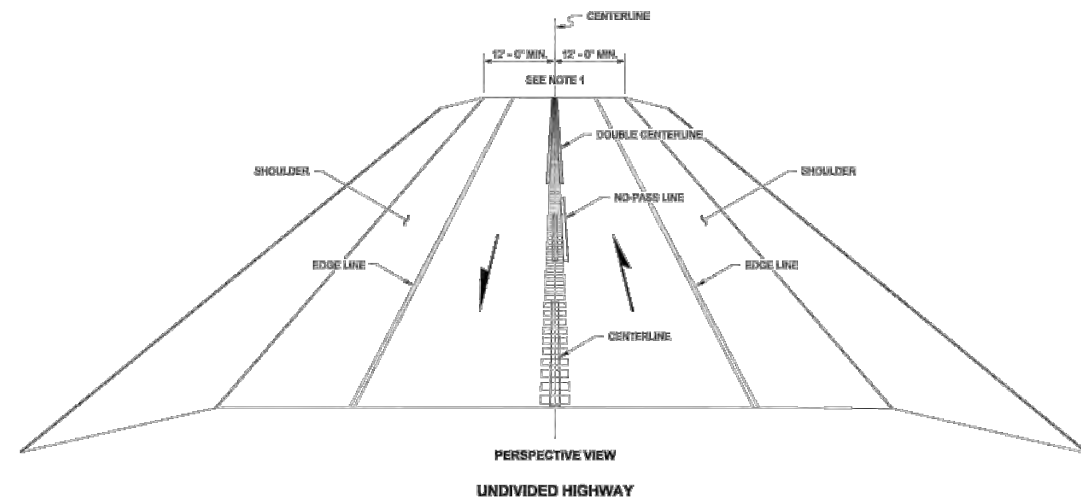
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DRAWN BY: FERN LIDDELL



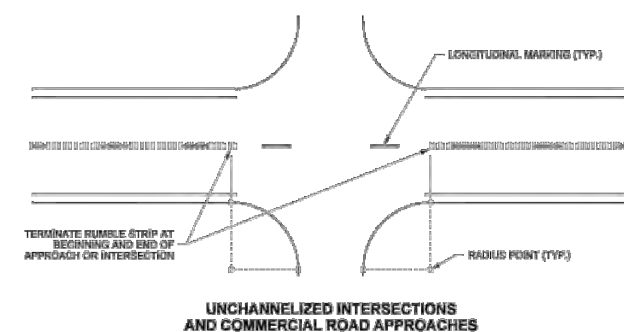
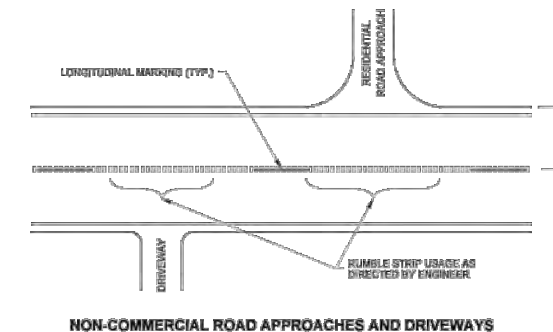
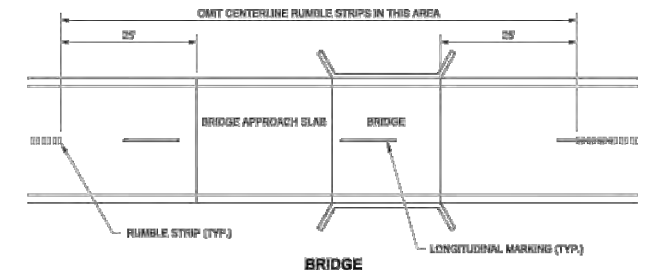
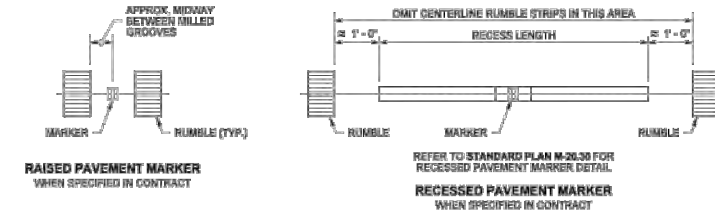
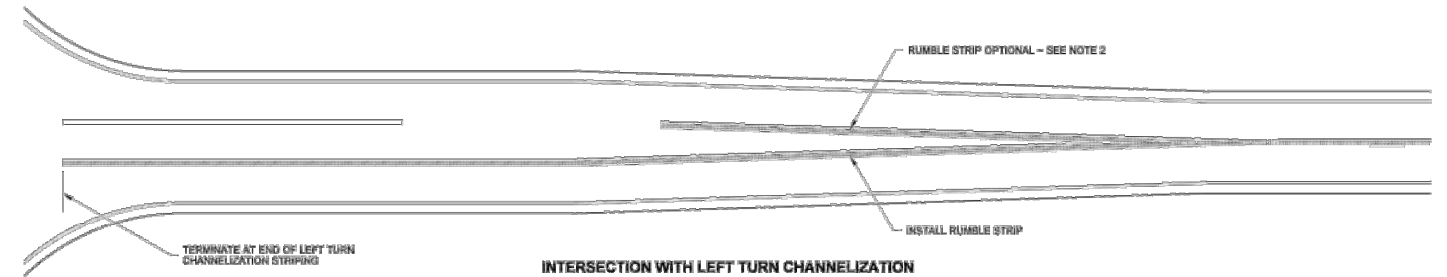
**NOTES**

1. Centerline Rumble Strip installation requires a minimum distance of 12 feet from centerline to edge of paved shoulder.
2. When directed by the Engineer, rumble strips may be installed along the turn pocket taper where there is a history of rear-end collisions in the turn pocket.
3. Increase depth of rumble strips by 1/8" (n) on routes where Bituminous Surface Treatment is normally applied. See contract plans for areas requiring the increased depth.
4. See **Standard Plan M-20.10** for more information on centerline longitudinal pavement marking patterns.



**CENTERLINE RUMBLE STRIP**  
**STANDARD PLAN M-65.10-03**  
 SHEET 1 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 Aug 17, 2021  
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DRAWN BY: FERN LIDDELL

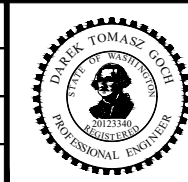


**CENTERLINE RUMBLE STRIP**  
**STANDARD PLAN M-65.10-03**  
 SHEET 2 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
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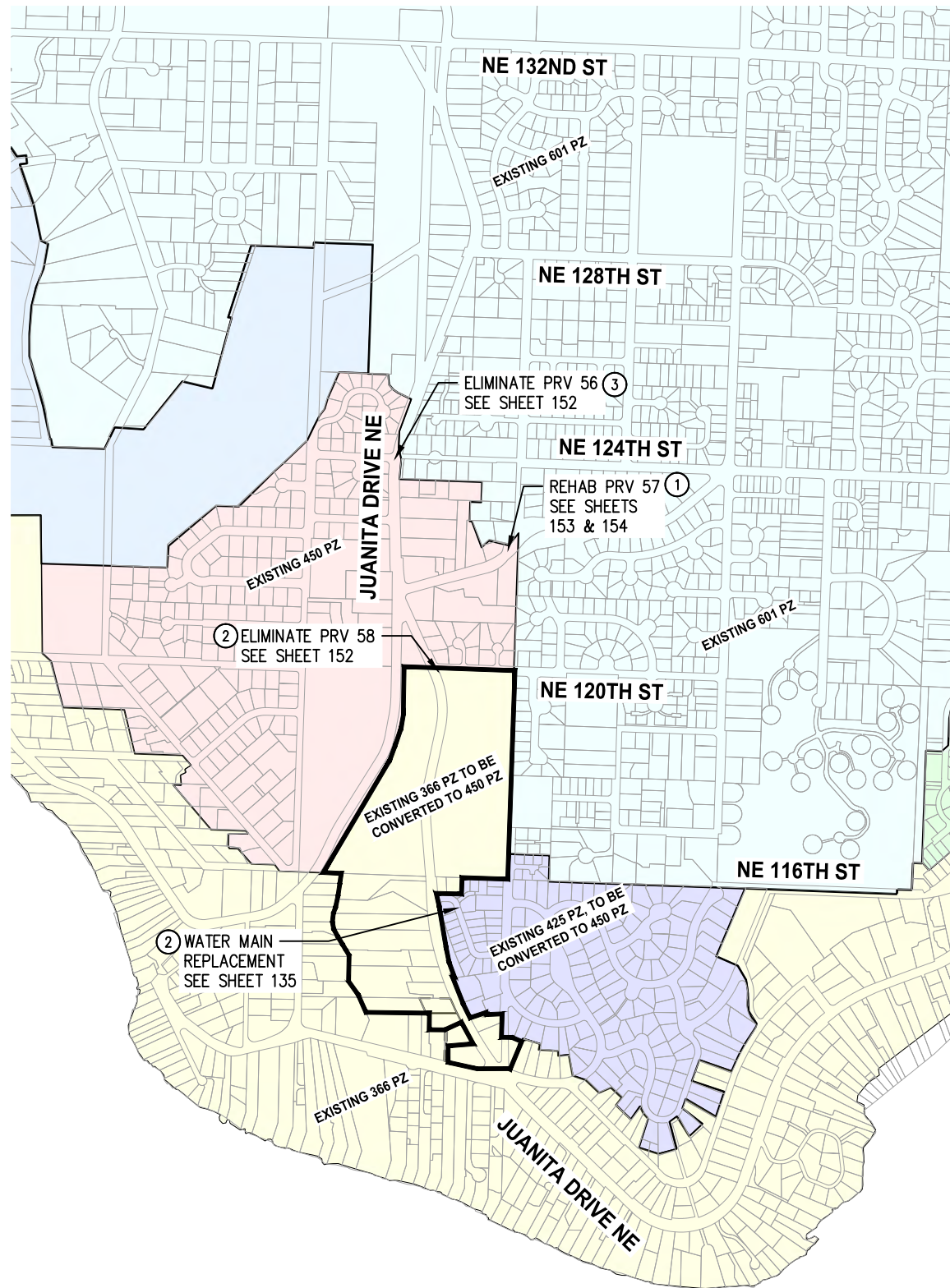
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

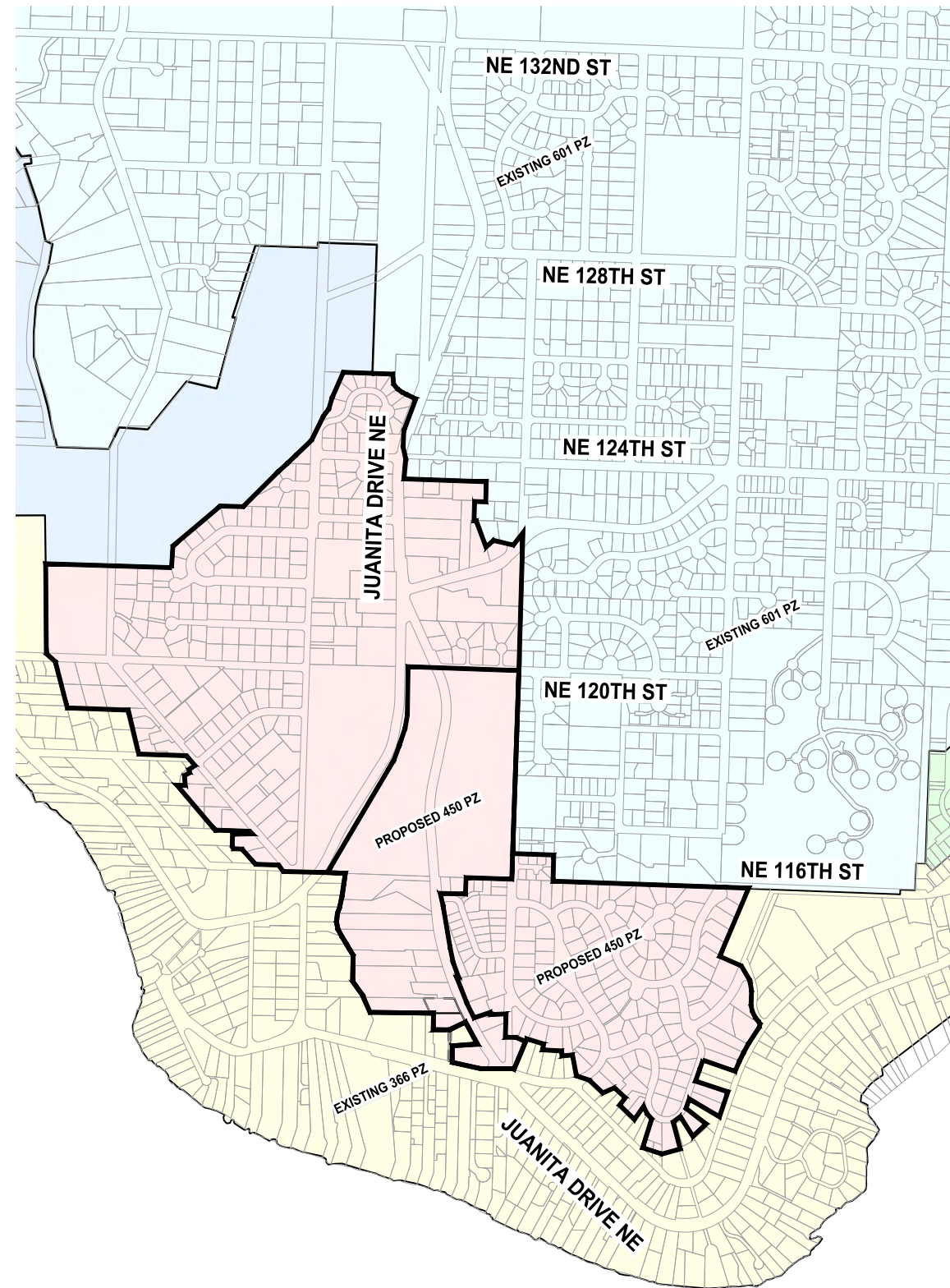
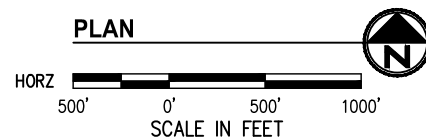
**WSDOT STANDARD PLANS**

REFERENCE SHEET NO.
SHEET 132 OF 161 SHEETS

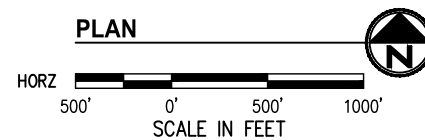
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CURRENT PRESSURE ZONE MAP (PRIOR TO CONSTRUCTION)



PROPOSED PRESSURE ZONE MAP (FOLLOWING PROJECT COMPLETION)



**PROJECT SEQUENCE**

THE PROPOSED WORK FOR THE PROJECT INCLUDES PRESSURE ZONE MODIFICATIONS. THE SEQUENCE OF CONSTRUCTION LISTED BELOW IS REQUIRED FOR DISTRICT OPERATIONAL PURPOSES TO MAINTAIN SERVICE FOR THEIR CUSTOMERS.

THE CONTRACTOR MUST SUBMIT A PHASING PLAN TO THE DISTRICT, PRIOR TO ISSUANCE OF NOTICE TO PROCEED, FOR APPROVAL. AFTER COMPLETION OF EACH SITE, THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE DISTRICT PRIOR TO MOVING TO A SUBSEQUENT SITE. FULL RESTORATION MUST BE PERFORMED.

- ① PRV 57 MAIN LINE VALVE CUT IN AND SUBSEQUENT PRV REHABILITATION.
- ② JUANITA/79TH WATER MAIN AND PRV 58 ABANDONMENT, IN EITHER ORDER.
- ③ PRV 56 ABANDONMENT.

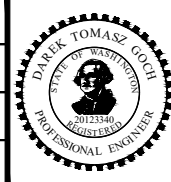
THE WATER MAIN REPLACEMENTS BETWEEN NE 123RD ST AND NE 133RD PL IN JUANITA DR DO NOT MODIFY PRESSURE ZONES. THE CONTRACTOR MAY SELECT THE PHASING FOR THIS WORK.

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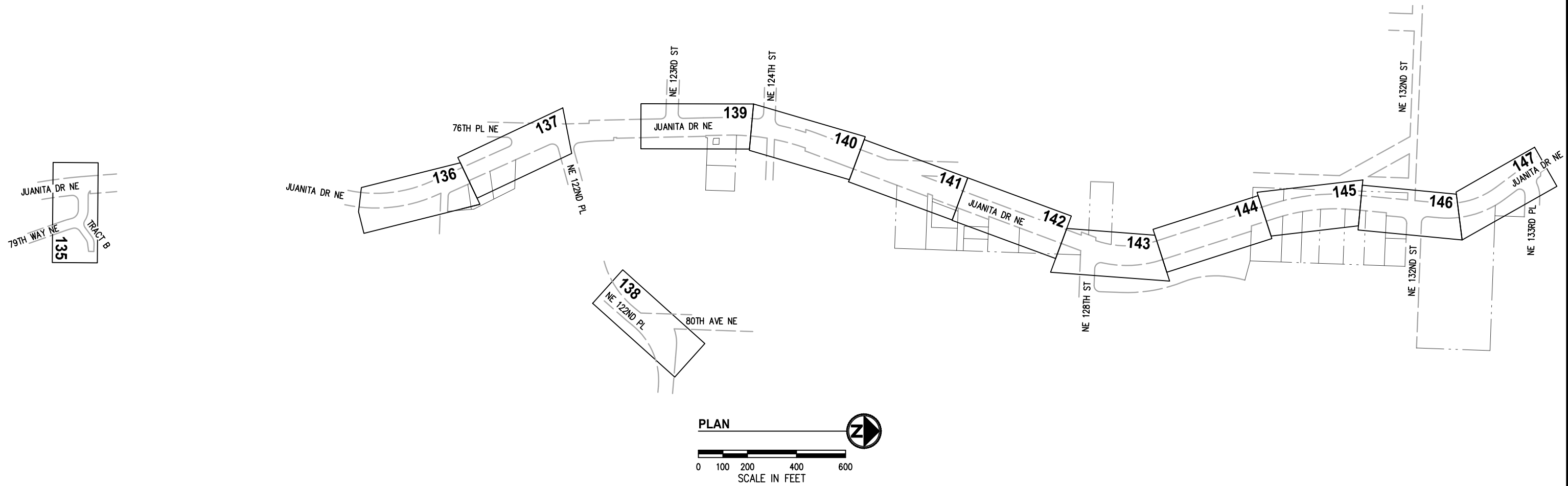
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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

425/450 PRESSURE ZONE CONVERSION  
**PRESSURE ZONE OVERVIEW**

REFERENCE SHEET NO.  
SHEET 133 OF 161 SHEETS

September 16, 2023 - 8:03 PM - VONNIE - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\NUD NDX.DWG - Layout Name: INDEX



**GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CURRENT NORTHSHORE UTILITY DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
2. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN, FOR THE PROTECTION AND REPAIR OF DAMAGED UTILITIES AND FOR THE DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED, BY THE APPROPRIATE UTILITY DISTRICTS OR COMPANIES, ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. FOR UTILITY LOCATES IN KING COUNTY, CALL 1-800-424-5555 PRIOR TO DIGGING.
3. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD AT THE DISTRICT OFFICE PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY NORTHSHORE UTILITY DISTRICT A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR WRITTEN NOTICE TO PROCEED BY THE DISTRICT.
5. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR APPROVAL FROM THE DISTRICT.

**GENERAL WATER NOTES**

1. FOR DEMOLITION AND RESTORATION ASSOCIATED WITH PROPOSED WATER SYSTEM SEE SITE PREP PLAN SHEETS 9-16 AND ROADWAY PLAN SHEETS 33-46.
2. CONSTRUCT NEW WATER MAIN BELOW EXISTING MAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSHORE UTILITY DISTRICT IN ORDER TO RESTORE SERVICE WITH MINIMAL DISRUPTION.
3. EXISTING WATER MAIN AND APPURTENANCES SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE PLANS. CLOSE ALL VALVES AND REMOVE & DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATERTIGHT WITH FITTINGS IN ACCORDANCE WITH THE SPECIFICATIONS AT LOCATIONS WHERE CROSSINGS OR CONFLICTS REQUIRE REMOVAL OF SECTIONS OF ABANDONED PIPE. AC PIPES TO BE ABANDONED SHALL BE FILLED WITH CDF.
4. CONTRACTOR SHALL POTHOLE EXISTING WATER MAIN AT CONNECTIONS TO VERIFY HORIZONTAL & VERTICAL LOCATION AND PIPE MATERIAL PRIOR TO COMMENCING WATER MAIN INSTALLATION.
5. WATER MAIN PIPING SHALL BE RESTRAINED JOINT (RJ) PIPE. FIELD LOK GASKETS AND MEGALUG FITTINGS, OR APPROVED EQUAL.
6. SALVAGE EXISTING HYDRANTS AND DELIVER TO DISTRICT YARD IN A CLEAN AND OPERABLE CONDITION.

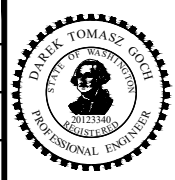
**GENERAL SEWER NOTES**

1. THE LOCATION SHOWN FOR SIDE SEWER STUBS IS APPROXIMATE. CONTRACTOR TO VERIFY THE LOCATION OF SIDE SEWER STUBS.
2. SEWER SERVICE SHALL NOT BE INTERRUPTED DURING CONSTRUCTION.
3. A TEMPORARY SEWER BYPASS PLAN SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY SEWER WORK.
4. EXISTING SIDE SEWERS MUST BE TEMPORARILY OR PERMANENTLY RECONNECTED BY THE END OF THE WORK DAY.

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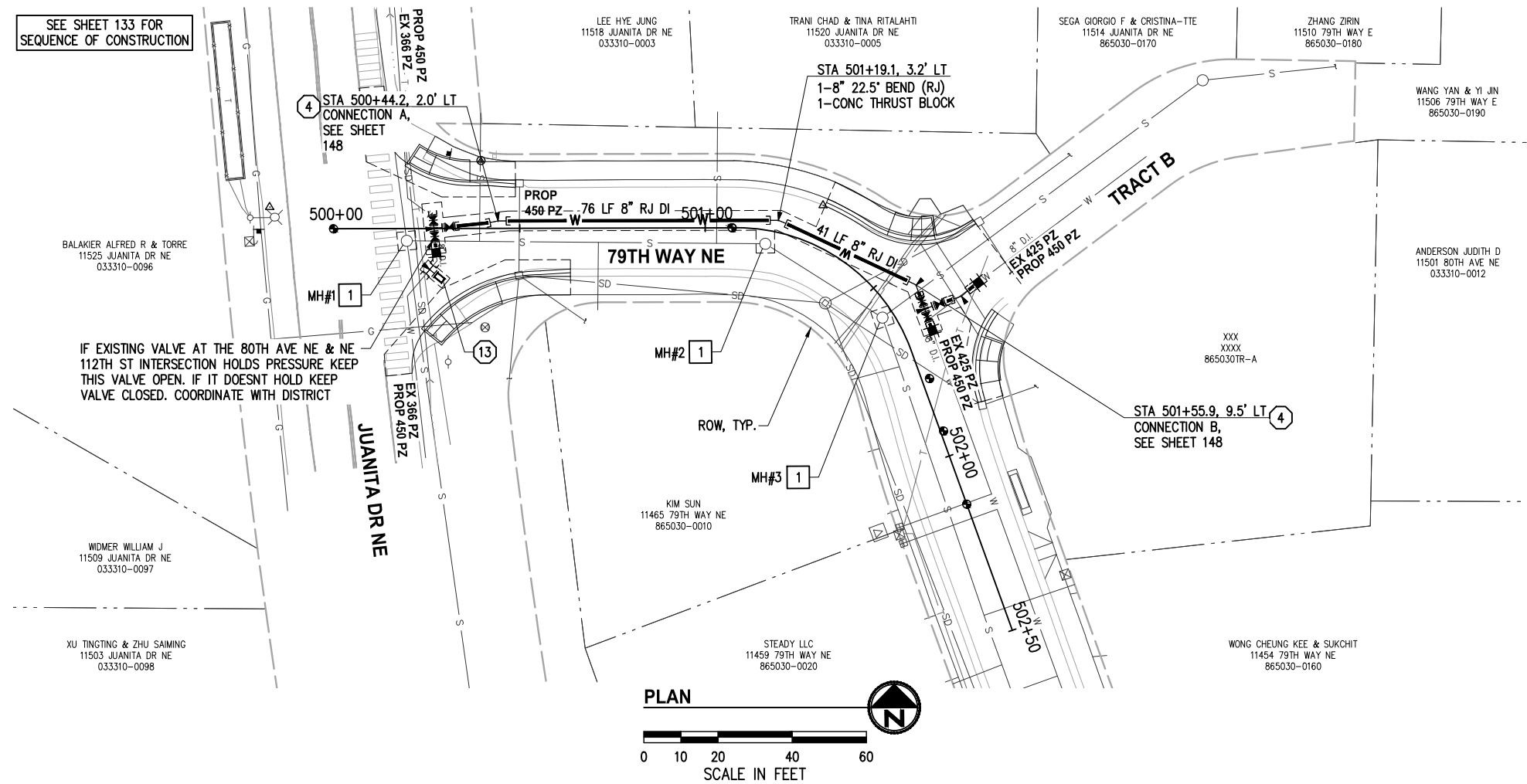
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**SHEET KEY**

REFERENCE SHEET NO.
SHEET 134 OF 161 SHEETS

September 16, 2023 - 8:05 PM - DAREK - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\WATR01.DWG - Layout Name: WATR (1) STA 500+00 TO STA 502+50

SEE SHEET 133 FOR SEQUENCE OF CONSTRUCTION



**GENERAL NOTES**

1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

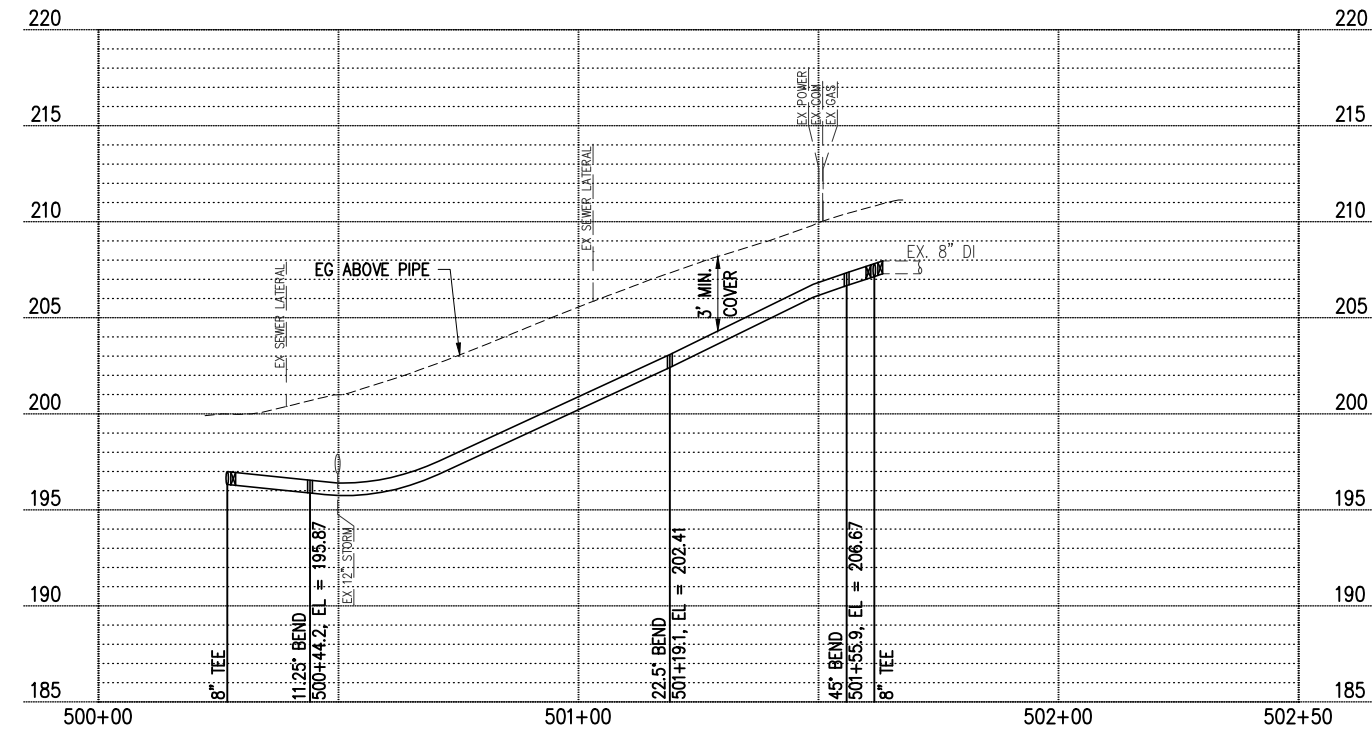
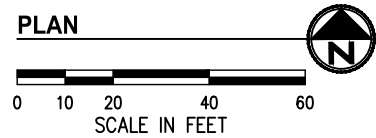
**WATER CONSTRUCTION NOTES**

- ④ CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
- ⑬ 2" BLOW-OFF ASSEMBLY PER NUD WATER STD DETAIL 10, EXCEPT INSTALL TAPPING TEE PER NUD STD DETAIL 20 IN LIEU OF DI TEE

**SEWER CONSTRUCTION NOTES**

- ① REPLACE MANHOLE FRAME, COVER AND ADJUSTMENT RINGS FOR EXISTING MANHOLE PER NUD STD SEWER DETAILS 1 & 5

IF EXISTING VALVE AT THE 80TH AVE NE & NE 112TH ST INTERSECTION HOLDS PRESSURE KEEP THIS VALVE OPEN. IF IT DOESNT HOLD KEEP VALVE CLOSED. COORDINATE WITH DISTRICT



**LEGEND**

- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- WATER LINE
- WATER VALVE AS NOTED
- WATER METER
- LONG SLEEVE COUPLING
- FL x RJ ADAPTER
- FIRE HYDRANT
- CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

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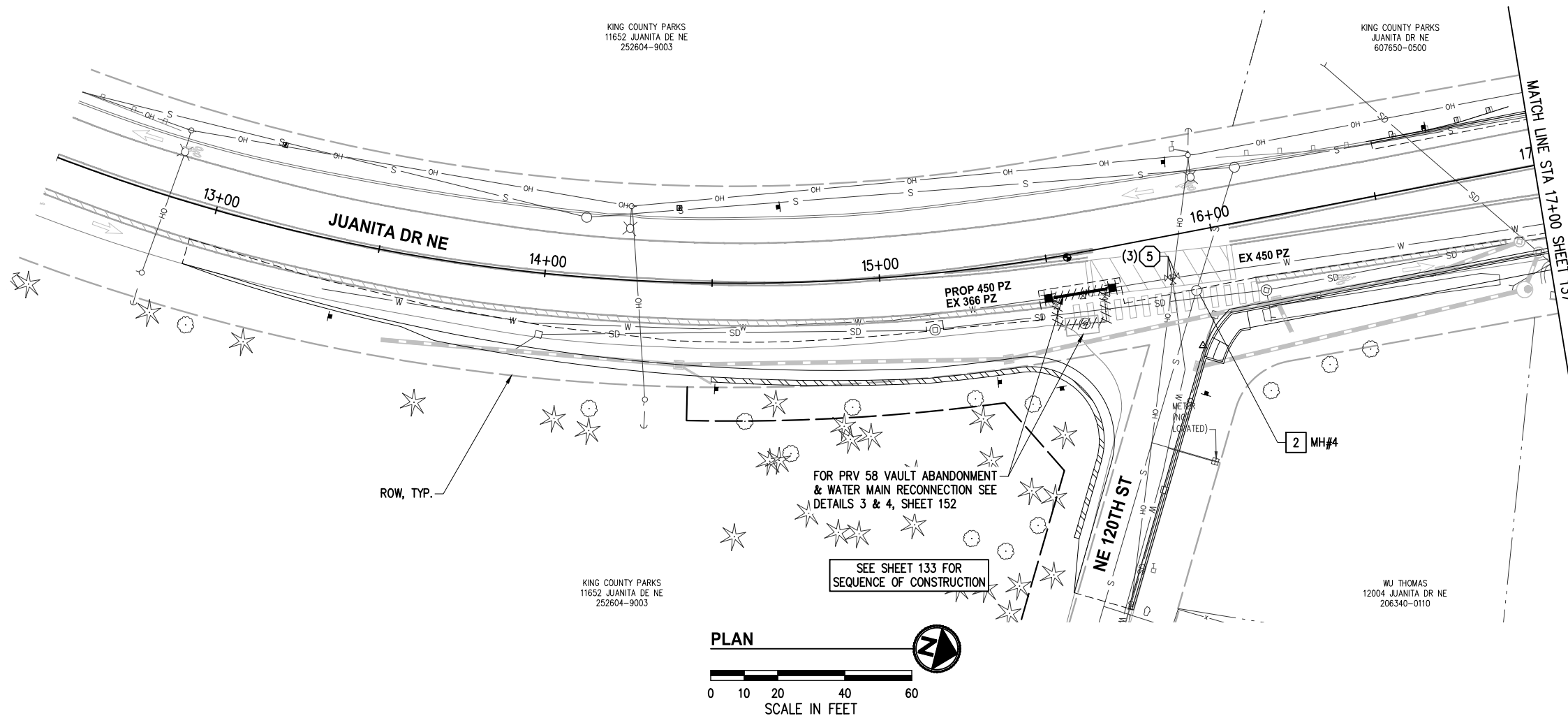
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 500+00 TO STA 502+50

**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 135 OF 161 SHEETS

September 16, 2023 - 8:08 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR02.DWG - Layout Name: WATR (1) STA 12+50 TO STA 17+00



- GENERAL NOTES**
- FOR GENERAL NOTES SEE SHEET KEY, SHEET 134
- WATER CONSTRUCTION NOTES**
- REPLACE VALVE BOX AND INSTALL OPERATING NUT EXTENSION (WHERE REQ'D) PER NUD WATER STD DETAIL 11, REMOVE AND DISPOSE OF EXISTING VALVE BOX
- SEWER CONSTRUCTION NOTES**
- REPLACE MANHOLE FRAME, COVER, CONE SECTION AND ADJUSTMENT RINGS FOR EXISTING MANHOLE. ADD MANHOLE SECTIONS AND MANHOLE STEPS AS NEEDED PER TABLE ON SHEET 158 ONTO EXISTING MANHOLE PER SEWER DETAIL 1, SHEET 157

- LEGEND**
- /////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
  - W WATER LINE
  - WV WATER VALVE AS NOTED
  - WM WATER METER
  - WSC LONG SLEEVE COUPLING
  - FLC FL x RJ ADAPTER
  - FH FIRE HYDRANT
  - CTB CONC THRUST BLOCKS PER NUD STD DETAIL 1
  - C CAP

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**JUANITA DRIVE MULTIMODAL,  
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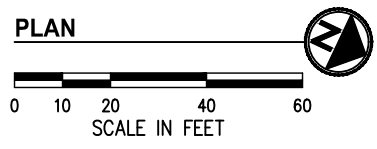
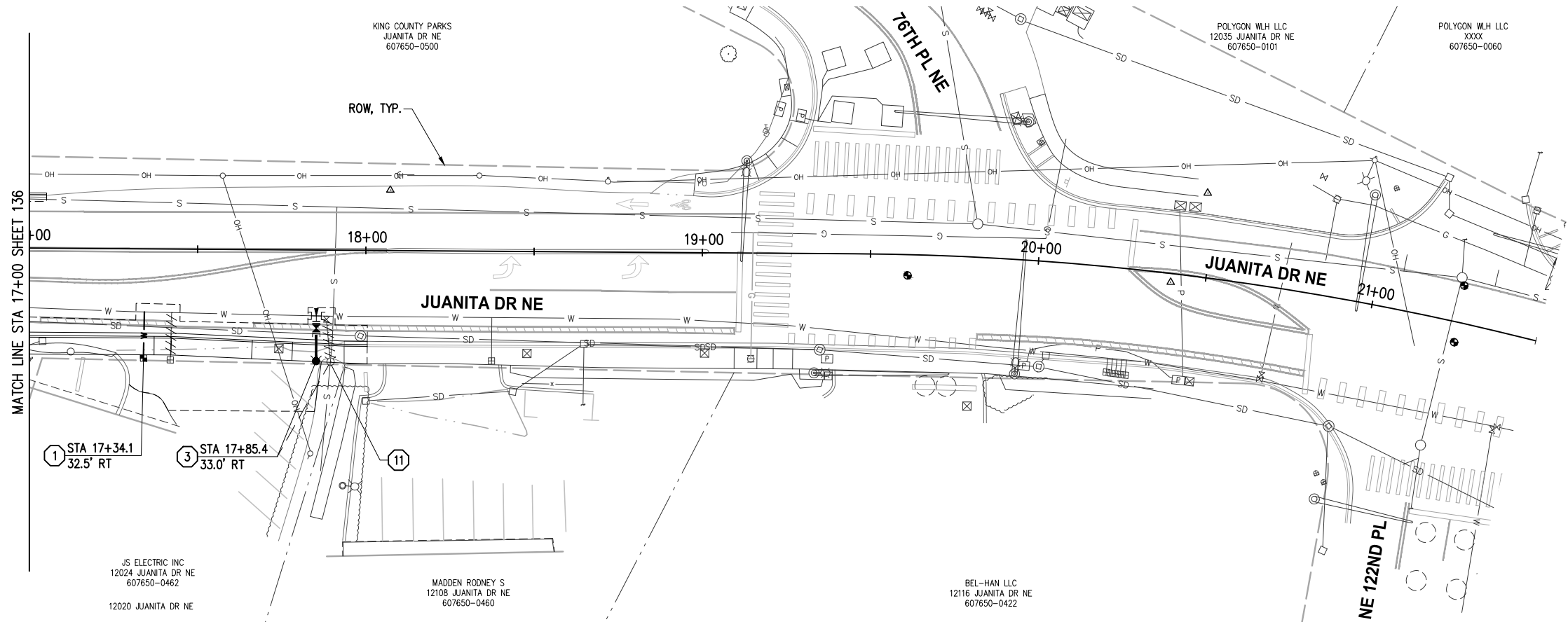
STA 12+50 TO STA 17+00

**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 136 OF 161 SHEETS



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**GENERAL NOTES**

- 1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- ① 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- ③ HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3, EXCEPT INSTALL TAPPING TEE PER NUD STD DETAIL 20 IN LIEU OF DI TEE
- ⑪ REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.

**LEGEND**

- ////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W WATER LINE
- ⊘ WATER VALVE AS NOTED
- ⊠ WATER METER
- ⊞ LONG SLEEVE COUPLING
- ⊞ FL x RJ ADAPTER
- FIRE HYDRANT
- ▲ CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 17+00 TO STA 21+50

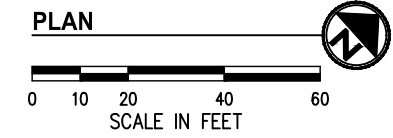
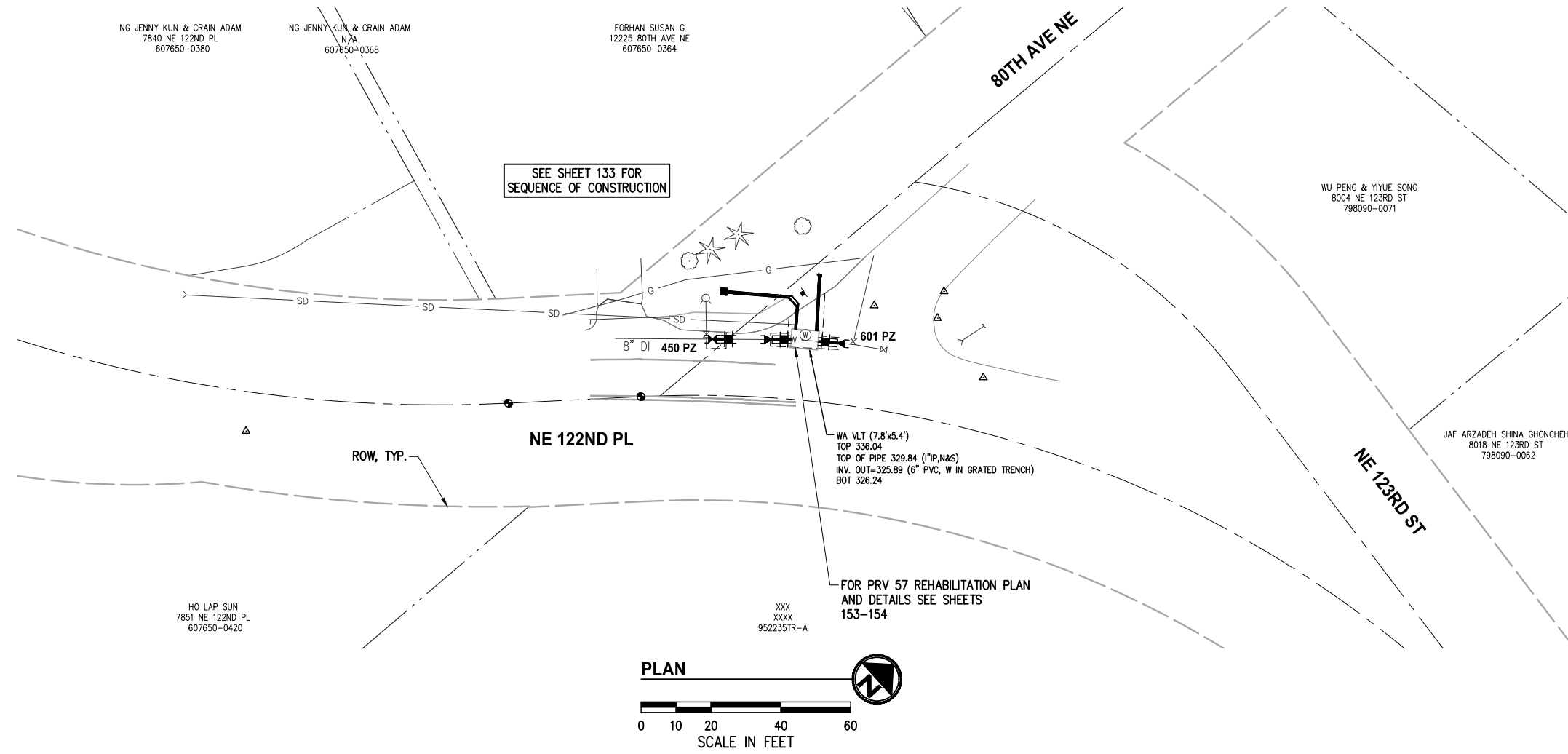
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 137 OF 161 SHEETS

September 16, 2023 - 8:10 PM - DAREK - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY\DESIGN\DRAWINGS\CONTRACT\19065\WATR01.DWG - Layout Name: WATR (2) NE 122ND PL & 80TH AVE NE

**GENERAL NOTES**

- FOR GENERAL NOTES SEE SHEET KEY, SHEET 134



**LEGEND**

- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- WATER LINE
- WATER VALVE AS NOTED
- WATER METER
- LONG SLEEVE COUPLING
- FL x RJ ADAPTER
- FIRE HYDRANT
- CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023

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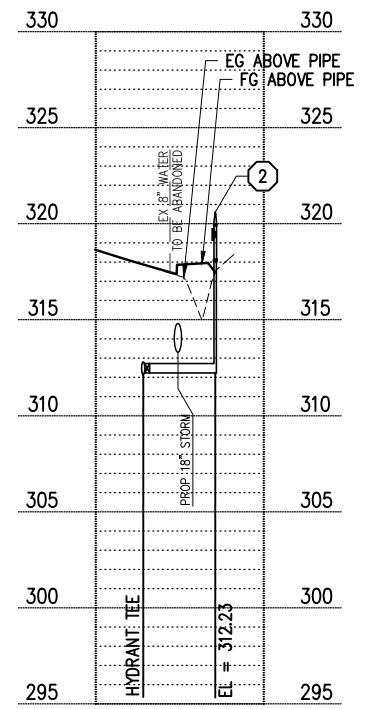
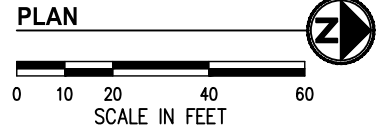
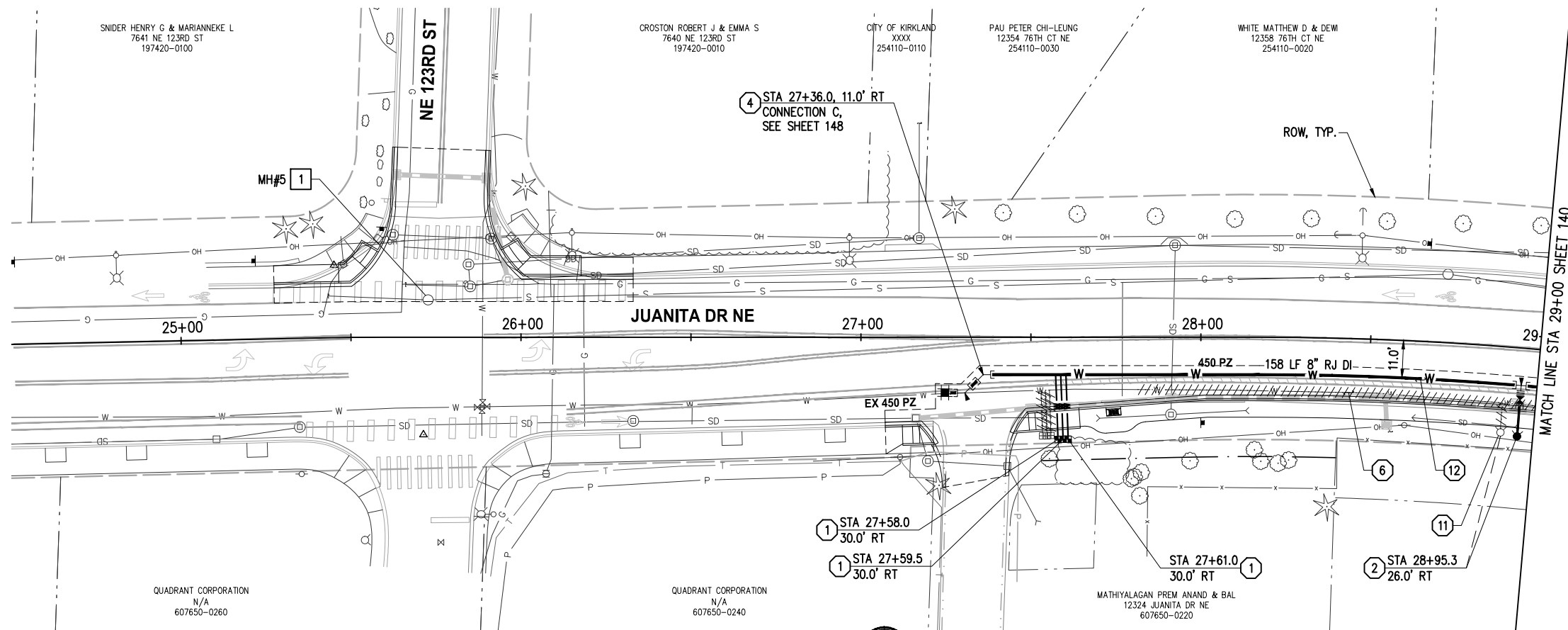
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

NE 122ND PL & 80TH AVE NE

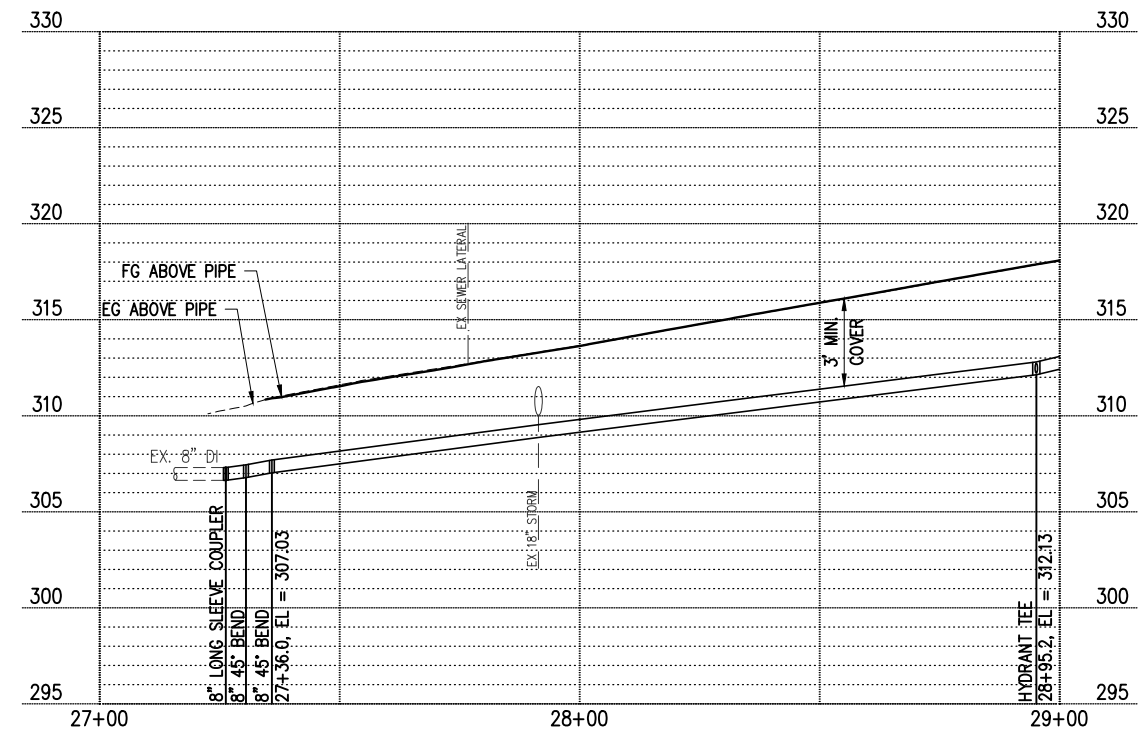
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.	SHEET
	138
	OF
	161
	SHEETS

September 16, 2023 - 8:12 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR02.DWG - Layout Name: WATR (3) STA 24+50 TO STA 29+00



**HYDRANT STA 28+95 PROFILE**  
HORIZ 1"=20', VERT 1"=5'



**PROFILE**  
HORIZ 1"=20', VERT 1"=5'

**GENERAL NOTES**

- 1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- 1. 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- 2. HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3
- 4. CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
- 6. REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
- 11. REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.
- 12. DEFLECT WATER MAIN PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN ALIGNMENT

**SEWER CONSTRUCTION NOTES**

- 1. REPLACE MANHOLE FRAME, COVER AND ADJUSTMENT RINGS FOR EXISTING MANHOLE PER NUD STD SEWER DETAILS 1 & 5

**LEGEND**

- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W WATER LINE
- WATER VALVE AS NOTED
- WATER METER
- LONG SLEEVE COUPLER
- FL x RJ ADAPTER
- FIRE HYDRANT
- CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



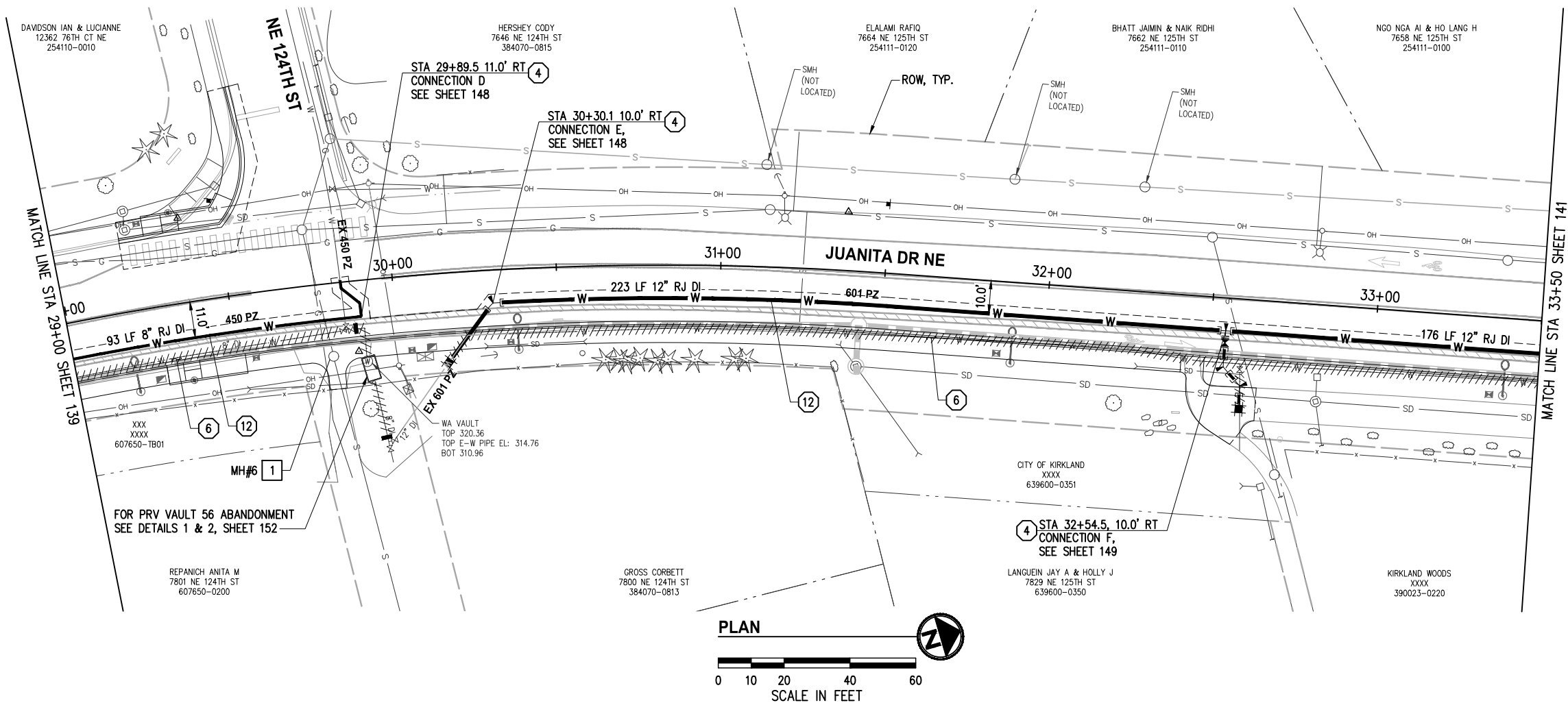
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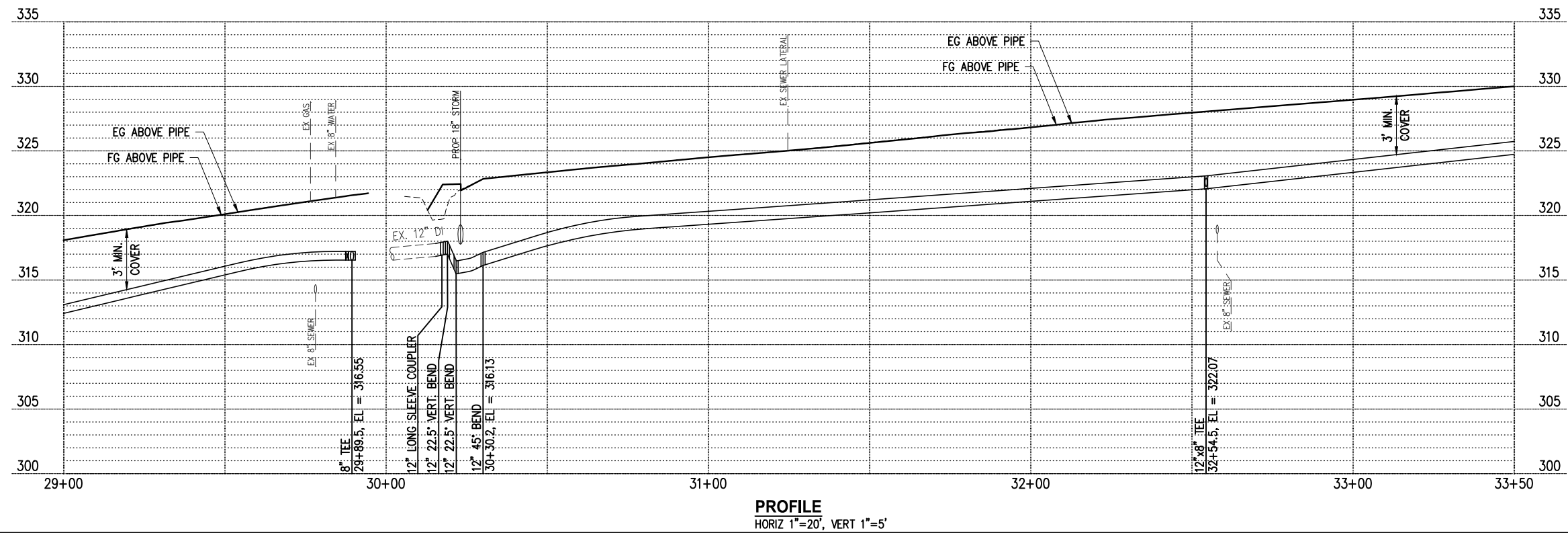
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 24+50 TO STA 29+00  
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.	SHEET 139 OF 161 SHEETS
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September 16, 2023 - 8:13 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR02.DWG - Layout Name: WATR (4) STA 29+00 TO STA 33+50



- GENERAL NOTES**
- FOR GENERAL NOTES SEE SHEET KEY, SHEET 134
- WATER CONSTRUCTION NOTES**
- CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
  - REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
  - DEFLECT WATER MAIN PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN ALIGNMENT
- SEWER CONSTRUCTION NOTES**
- REPLACE MANHOLE FRAME, COVER AND ADJUSTMENT RINGS FOR EXISTING MANHOLE PER NUD STD SEWER DETAILS 1 & 5



- LEGEND**
- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
  - WATER LINE
  - WATER VALVE AS NOTED
  - WATER METER
  - LONG SLEEVE COUPLER
  - FL x RJ ADAPTER
  - FIRE HYDRANT
  - CONC THRUST BLOCKS PER NUD STD DETAIL 1
  - CAP

DATE	NO.	REVISION	BY

UPI NO.: \_\_\_\_\_

SURVEY NO.: \_\_\_\_\_

HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11

DESIGNED BY: DG

DATE: 9/2023

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FIELD BOOK(S): \_\_\_\_\_

VERT. DATUM: NAVD 88

DRAWN BY: DG

DATE: 9/2023

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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

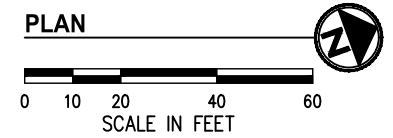
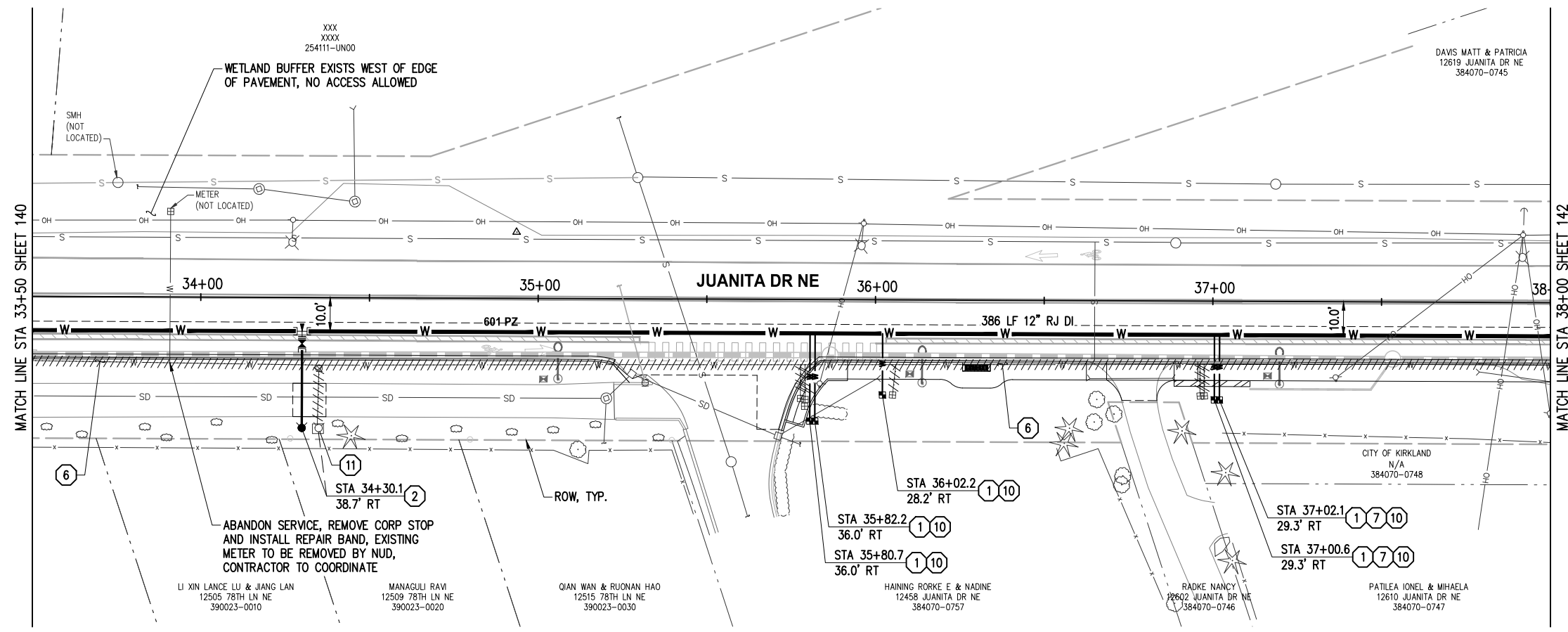
STA 29+00 TO STA 33+50

**NUD WATER & SEWER PLAN & PROFILE**

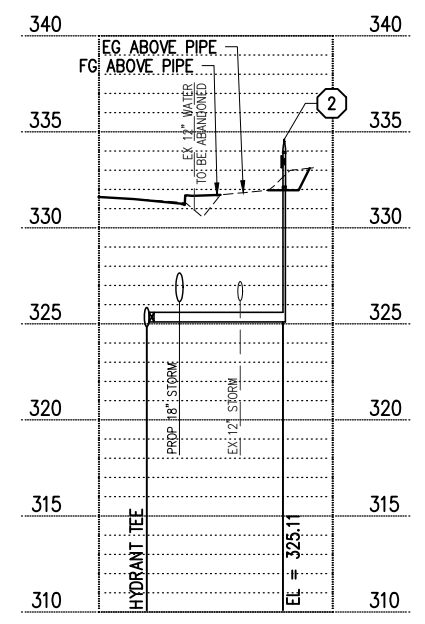
REFERENCE SHEET NO.

SHEET 140 OF 161 SHEETS

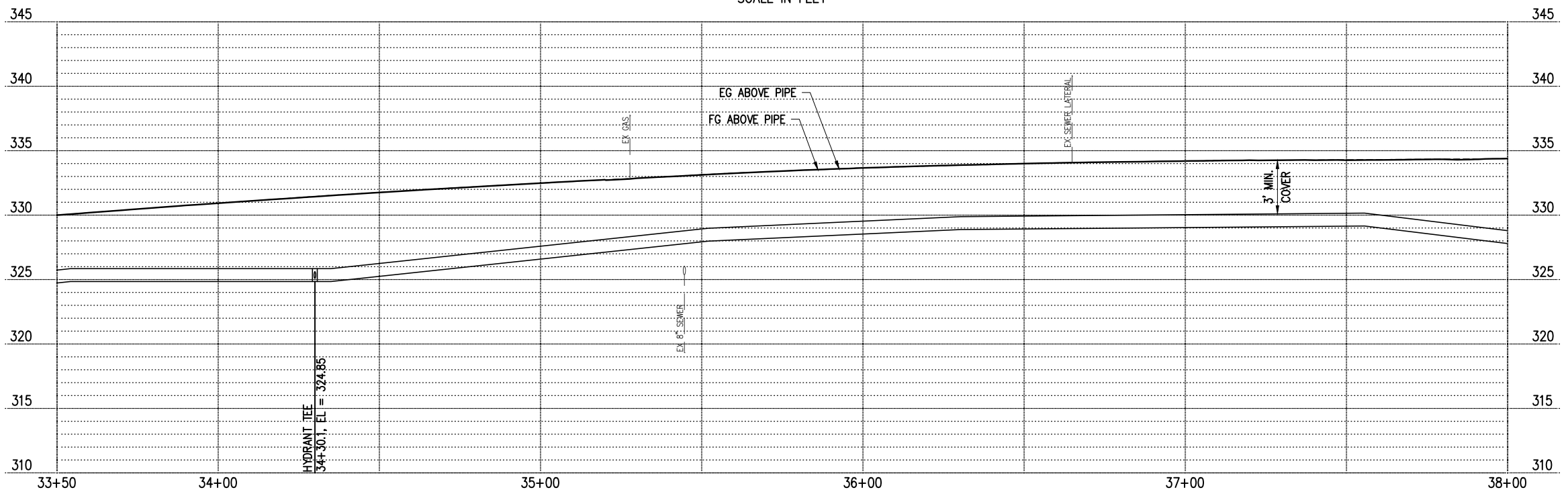
September 16, 2023 - 8:14 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\WATR02.DWG - Layout Name: WATR (5) STA 33+50 TO STA 38+00



- GENERAL NOTES**
- FOR GENERAL NOTES SEE SHEET KEY, SHEET 134
- WATER CONSTRUCTION NOTES**
- 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
  - HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3
  - REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
  - INSTALL SERVICE UNDER BLOCK WALL PER DETAIL 1, SHEET 151
  - INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
  - REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.



**HYDRANT STA 34+30 PROFILE**  
HORIZ 1"=20', VERT 1"=5'



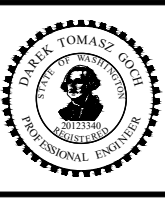
**PROFILE**  
HORIZ 1"=20', VERT 1"=5'

- LEGEND**
- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
  - WATER LINE
  - WATER VALVE AS NOTED
  - WATER METER
  - LONG SLEEVE COUPLING
  - FL x RJ ADAPTER
  - FIRE HYDRANT
  - CONC THRUST BLOCKS PER NUD STD DETAIL 1
  - CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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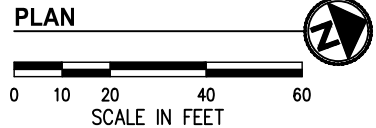
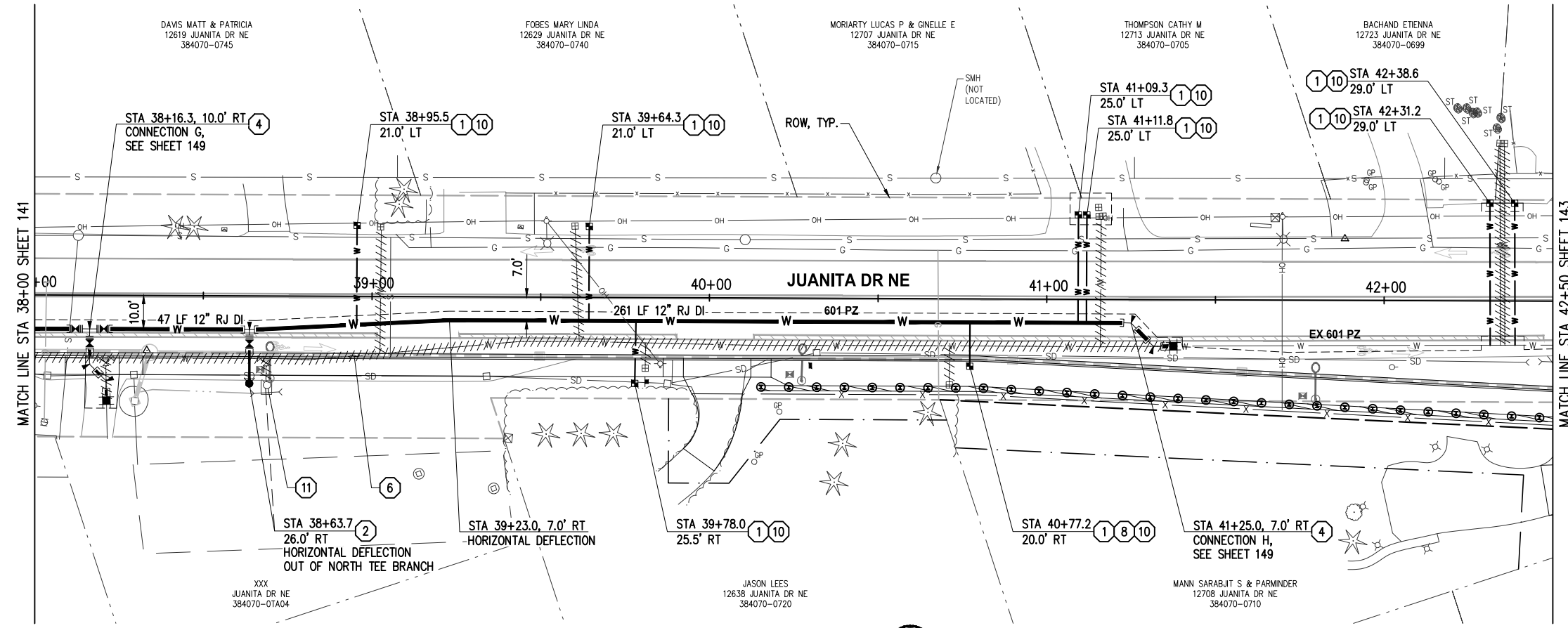
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

STA 33+50 TO STA 38+00

**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO. SHEET 141 OF 161 SHEETS

September 16, 2023 - 8:14 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR02.DWG - Layout Name: WATR (6) STA 38+00 TO STA 42+50

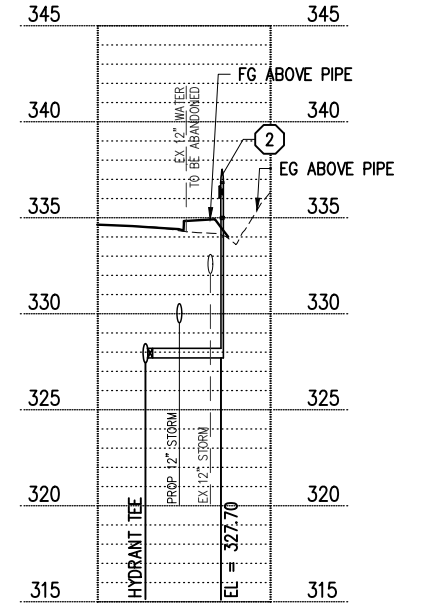
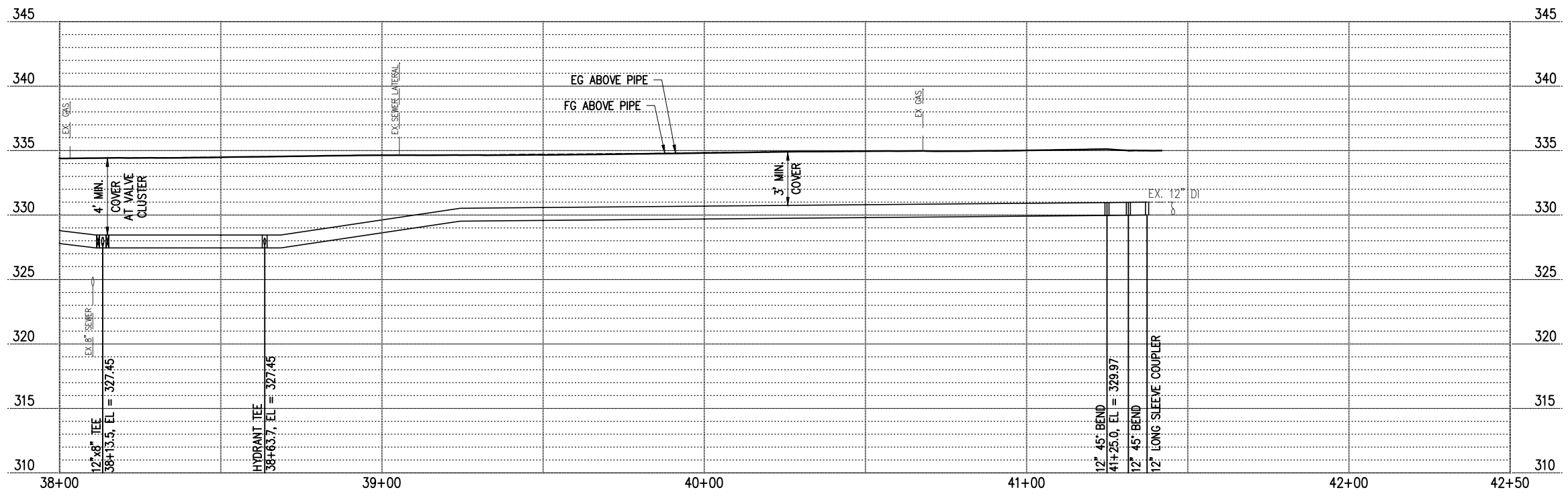


**GENERAL NOTES**

1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- ① 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- ② HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3
- ④ CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
- ⑥ REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
- ⑧ INSTALL SERVICE UNDER SOLDIER PILE WALL PER DETAIL 2, SHEET 151
- ⑩ INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
- ⑪ REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.



**HYDRANT STA 38+64 PROFILE**  
HORIZ 1"=20', VERT 1"=5'

**LEGEND**

- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- WATER LINE
- WATER VALVE AS NOTED
- WATER METER
- LONG SLEEVE COUPLER
- FL x RJ ADAPTER
- FIRE HYDRANT
- CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
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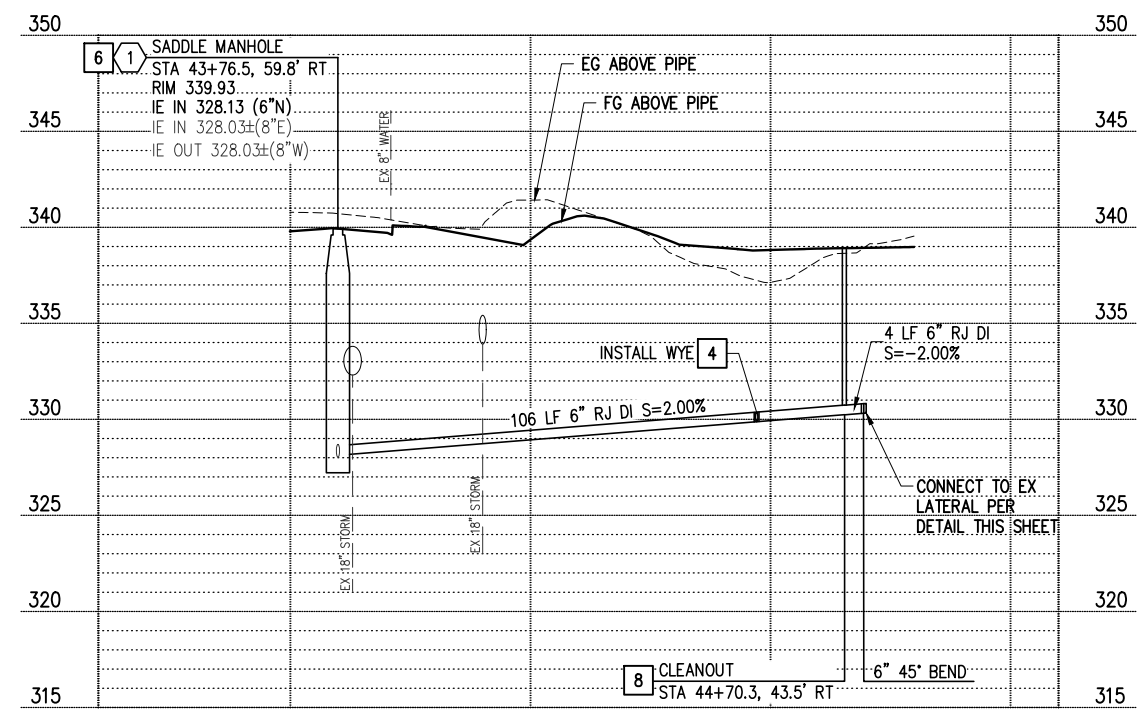
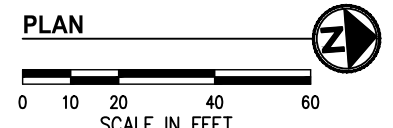
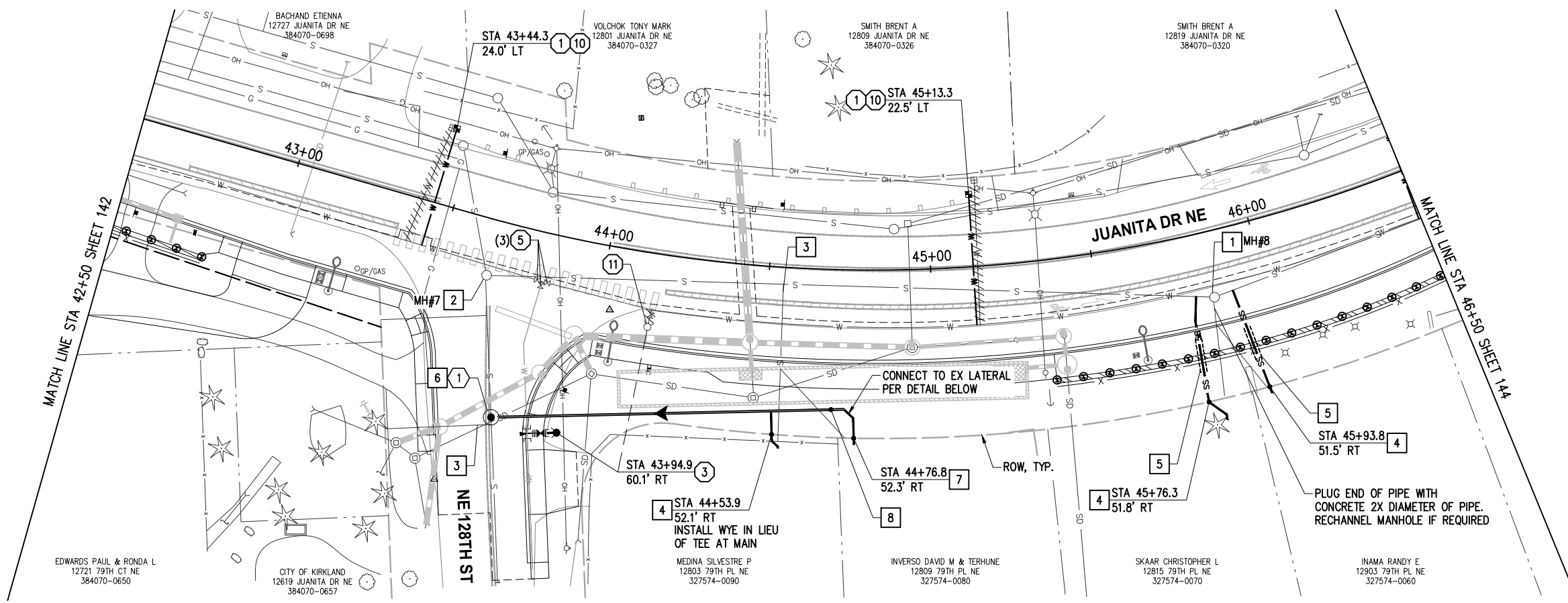
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 38+00 TO STA 42+50

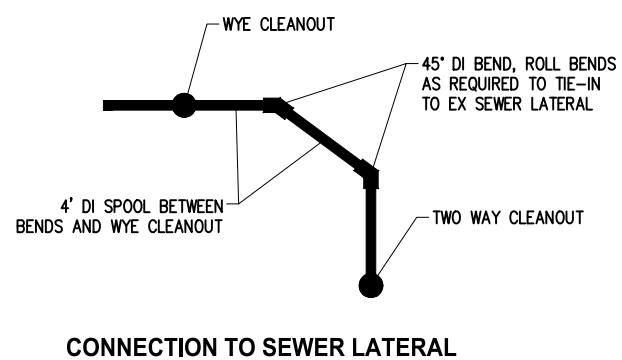
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.	SHEET 142 OF 161 SHEETS
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September 16, 2023 - 8:16 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS & DESIGN\DRAWINGS\CONTRACT\19065\WATR03.DWG - Layout Name: WATR (1) STA 42+50 TO STA 46+50



**SEWER PROFILE**  
HORIZ 1"=20', VERT 1"=5'



**GENERAL NOTES**

- 1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- 1. 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- 3. HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3, EXCEPT INSTALL TAPPING TEE PER NUD STD DETAIL 20 IN LIEU OF DI TEE
- 5. REPLACE VALVE BOX AND INSTALL OPERATING NUT EXTENSION (WHERE REQ'D) PER NUD WATER STD DETAIL 11, REMOVE AND DISPOSE OF EXISTING VALVE BOX
- 10. INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
- 11. REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.

**SEWER CONSTRUCTION NOTES**

- 1. REPLACE MANHOLE FRAME, COVER AND ADJUSTMENT RINGS FOR EXISTING MANHOLE PER NUD STD SEWER DETAILS 1 & 5
- 2. REPLACE MANHOLE FRAME, COVER, CONE SECTION AND ADJUSTMENT RINGS FOR EXISTING MANHOLE. ADD MANHOLE SECTIONS AND MANHOLE STEPS AS NEEDED PER TABLE ON SHEET 158 ONTO EXISTING MANHOLE PER SEWER DETAIL 1, SHEET 157
- 3. PERMANENTLY ABANDON EXISTING SIDE SEWER AT THE MAIN PER NUD STD SEWER DETAIL 8C
- 4. INSTALL NEW SIDE SEWER STUB AND CONNECT TO EXISTING SIDE SEWER PER DETAIL 2, SHEET 157. POTHOLE EXISTING SIDE SEWER AND ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) PRIOR TO COMMENCING SIDE SEWER INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN
- 5. CENTER NEW DI SIDE SEWER BETWEEN SOLDIER PILES (SEE SHEETS 60-63) AND CONSTRUCT SIDE SEWER INSIDE STEEL CASING PER NUD STD SEWER DETAIL 10
- 6. INSTALL SADDLE MANHOLE PER NUD STD SEWER DETAIL 2
- 7. INSTALL TWO-WAY CLEANOUT PER NUD STD SEWER DETAIL 9
- 8. INSTALL WYE CLEANOUT PER NUD STD SEWER DETAIL 9

**LEGEND**

- ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W WATER LINE
- Water Valve AS NOTED
- Water Meter
- Long Sleeve Coupling
- FL x RJ Adapter
- Fire Hydrant
- CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



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SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



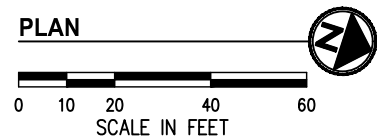
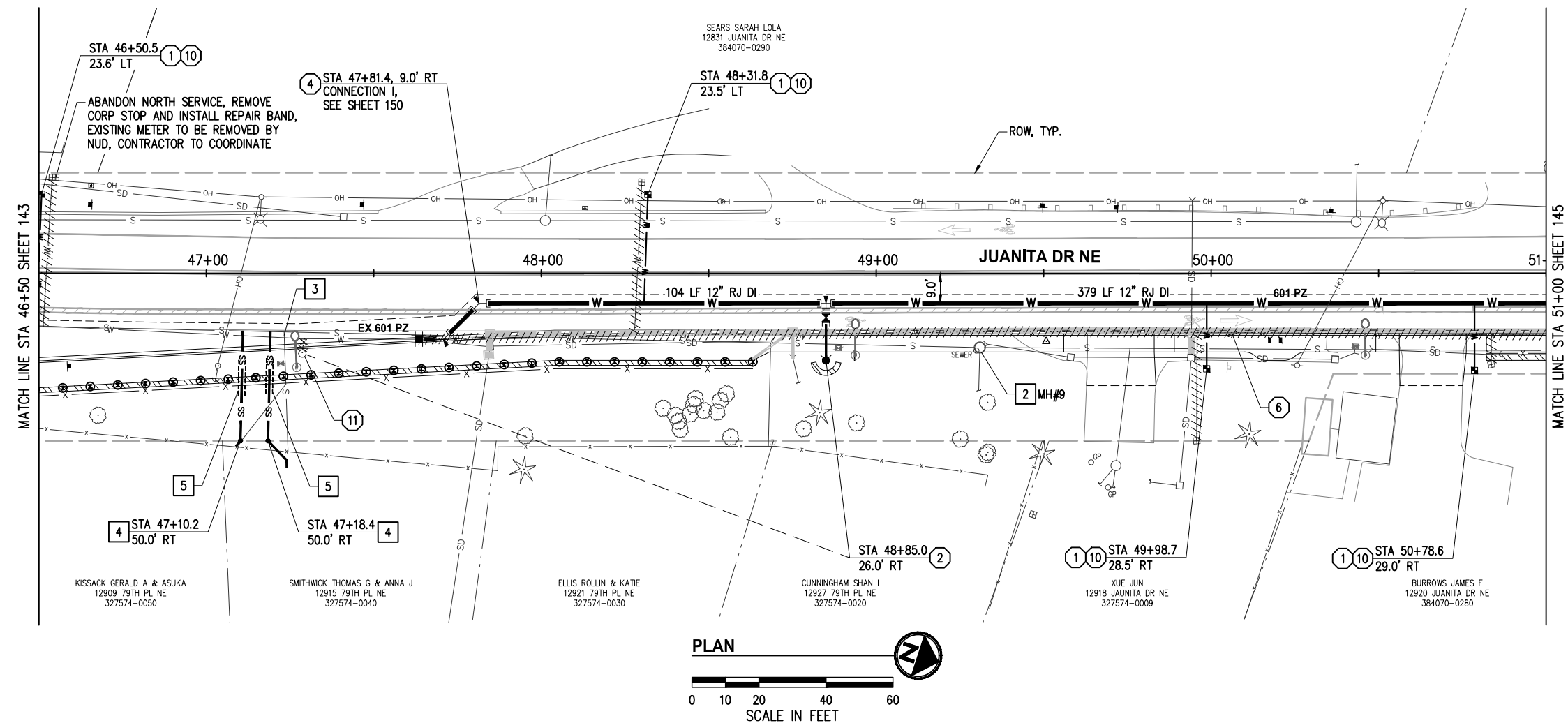
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 42+50 TO STA 46+50  
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 143 OF 161 SHEETS

September 16, 2023 - 8:17 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR03.DWG - Layout Name: WATR (2) STA 46+50 TO STA 51+00



**GENERAL NOTES**

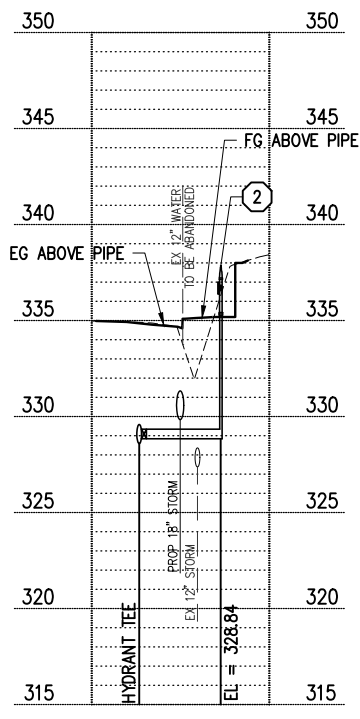
1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

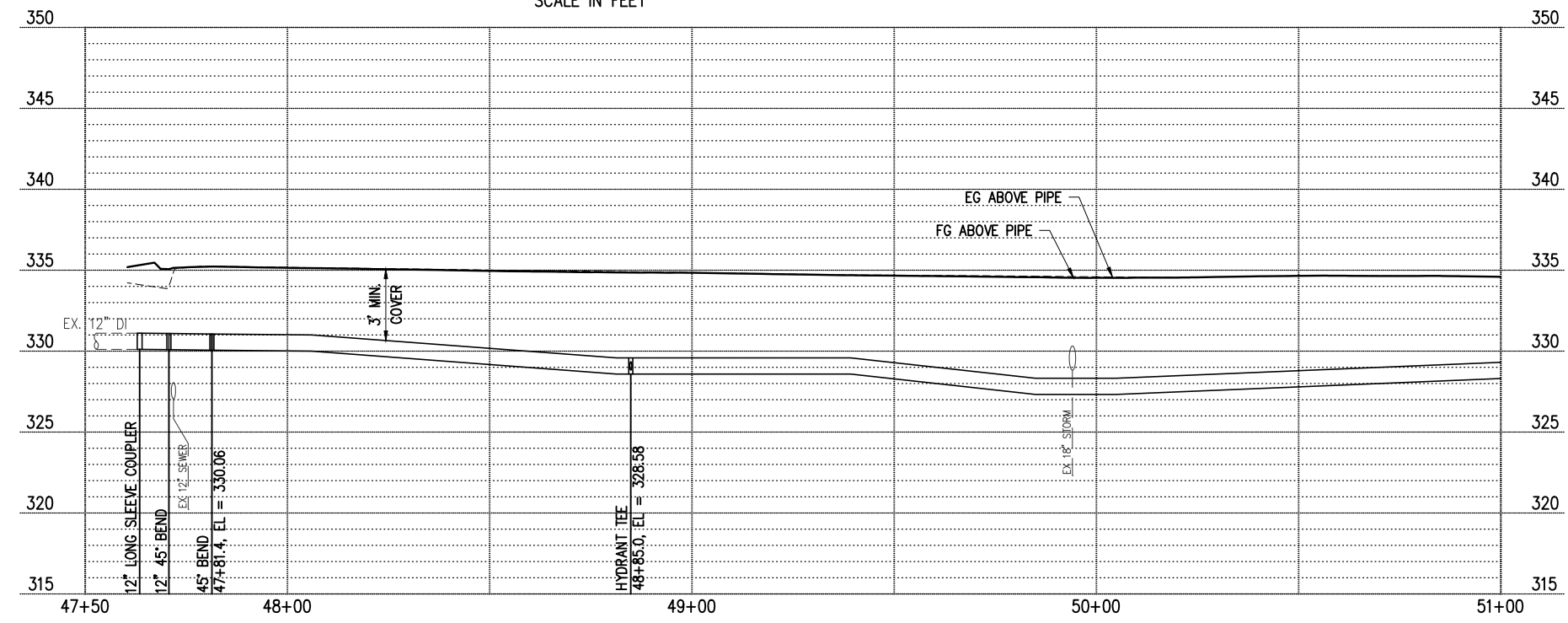
- ① 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- ② HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3
- ④ CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
- ⑥ REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
- ⑩ INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
- ⑪ REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.

**SEWER CONSTRUCTION NOTES**

- ② REPLACE MANHOLE FRAME, COVER, CONE SECTION AND ADJUSTMENT RINGS FOR EXISTING MANHOLE. ADD MANHOLE SECTIONS AND MANHOLE STEPS AS NEEDED PER TABLE ON SHEET 158 ONTO EXISTING MANHOLE PER SEWER DETAIL 1, SHEET 157
- ③ PERMANENTLY ABANDON EXISTING SIDE SEWER AT THE MAIN PER NUD STD SEWER DETAIL 8C
- ④ INSTALL NEW SIDE SEWER STUB AND CONNECT TO EXISTING SIDE SEWER PER DETAIL 2, SHEET 157. POTHOLE EXISTING SIDE SEWER AND ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) PRIOR TO COMMENCING SIDE SEWER INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN
- ⑤ CENTER NEW DI SIDE SEWER BETWEEN SOLDIER PILES (SEE SHEETS 60-63) AND CONSTRUCT SIDE SEWER INSIDE STEEL CASING PER NUD STD SEWER DETAIL 10



**HYDRANT STA 48+85 PROFILE**  
HORIZ 1"=20', VERT 1"=5'



**PROFILE**  
HORIZ 1"=20', VERT 1"=5'

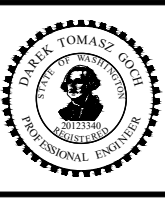
**LEGEND**

- ////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W WATER LINE
- ⊗ WATER VALVE AS NOTED
- ⊠ WATER METER
- ⊡ LONG SLEEVE COUPLER
- ⊞ FL x RJ ADAPTER
- FIRE HYDRANT
- ▲ CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



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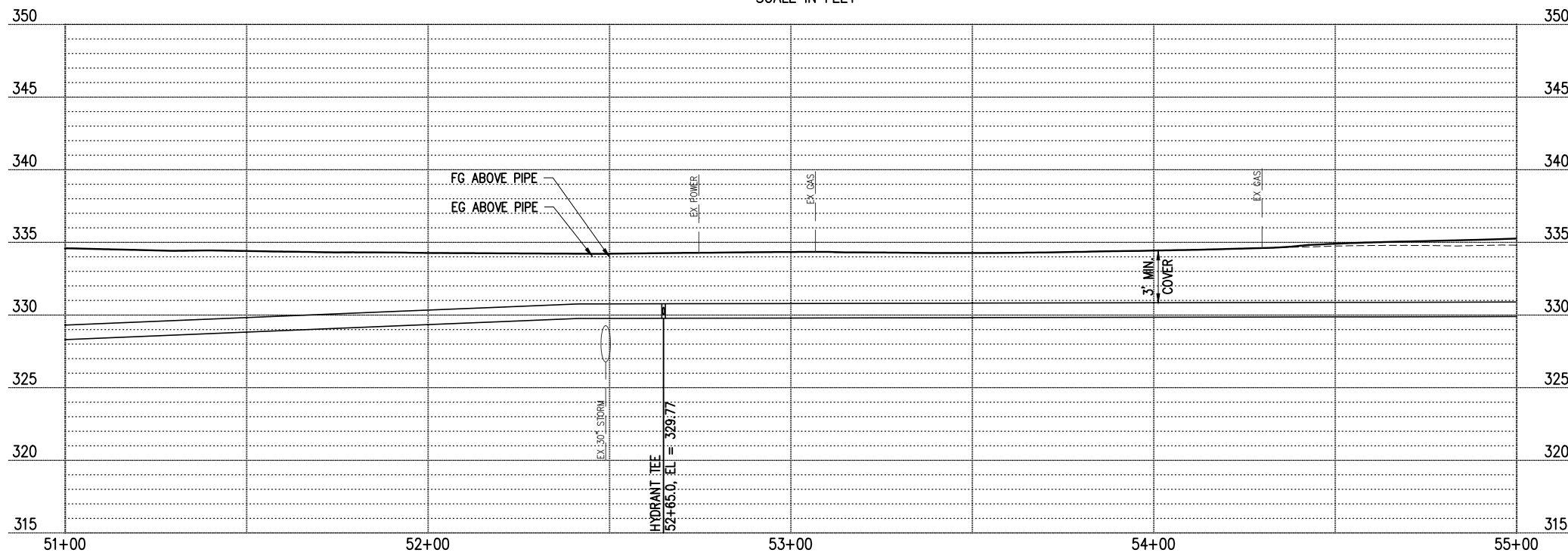
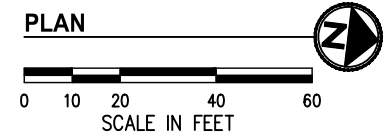
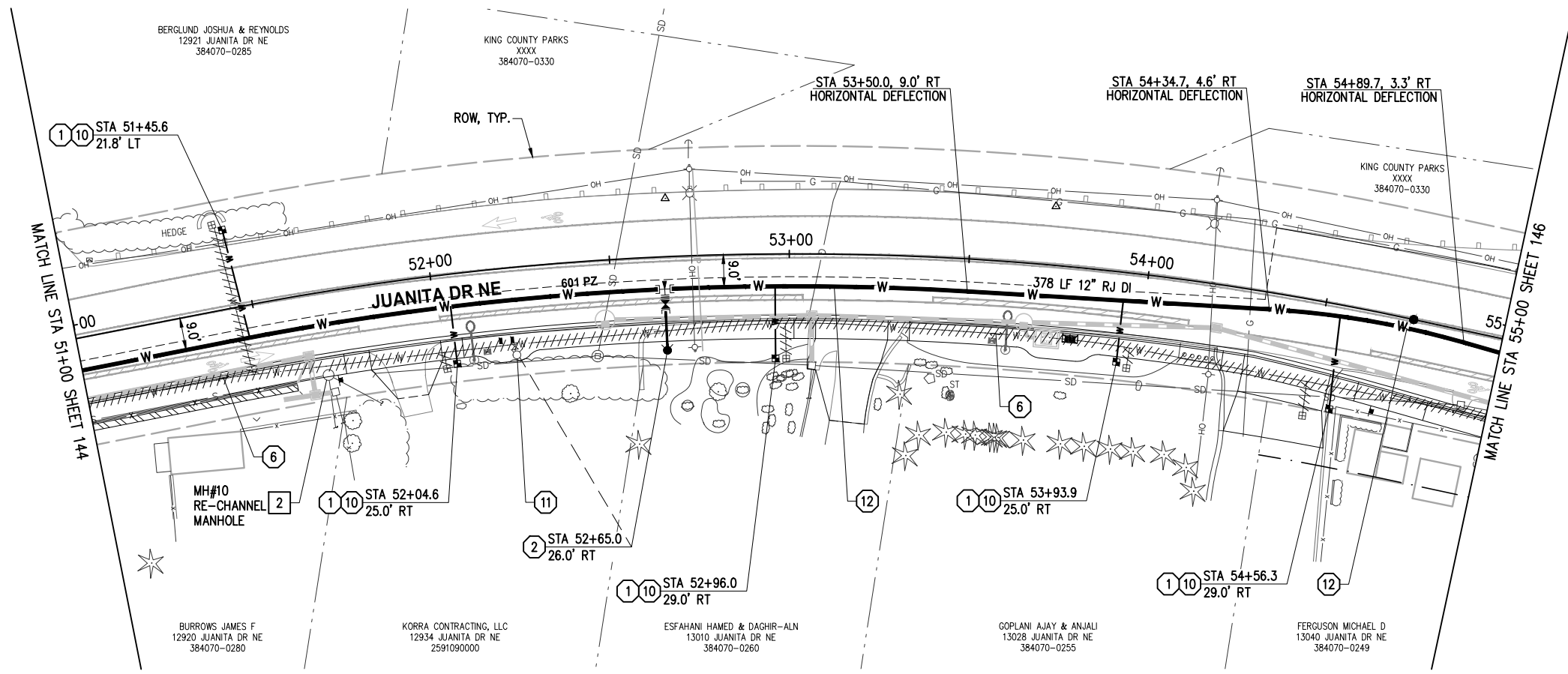
**NORTHSHORE UTILITY DISTRICT**  
**CITY OF KIRKLAND WASHINGTON**  
CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 46+50 TO STA 51+00  
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 144 OF 161 SHEETS



September 16, 2023 - 8:17 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR03.DWG - Layout Name: WATR (3) STA 51+00 TO STA 55+00



**PROFILE**  
HORIZ 1"=20', VERT 1"=5'

**GENERAL NOTES**

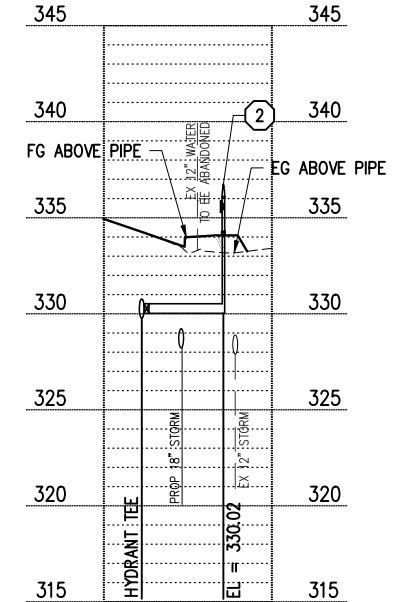
1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- ① 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- ② HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3
- ⑥ REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
- ⑩ INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
- ⑪ REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.
- ⑫ DEFLECT WATER MAIN PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN ALIGNMENT

**SEWER CONSTRUCTION NOTES**

- ② REPLACE MANHOLE FRAME, COVER, CONE SECTION AND ADJUSTMENT RINGS FOR EXISTING MANHOLE. ADD MANHOLE SECTIONS AND MANHOLE STEPS AS NEEDED PER TABLE ON SHEET 158 ONTO EXISTING MANHOLE PER SEWER DETAIL 1, SHEET 157



**HYDRANT STA 52+65 PROFILE**  
HORIZ 1"=20', VERT 1"=5'

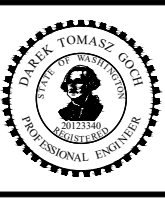
**LEGEND**

- ////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W — WATER LINE
- ⊗ WATER VALVE AS NOTED
- ⊠ WATER METER
- ⊞ LONG SLEEVE COUPLING
- ⊞ FL x RJ ADAPTER
- FIRE HYDRANT
- ▲ CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	9/2023
DRAWN BY: DG	9/2023



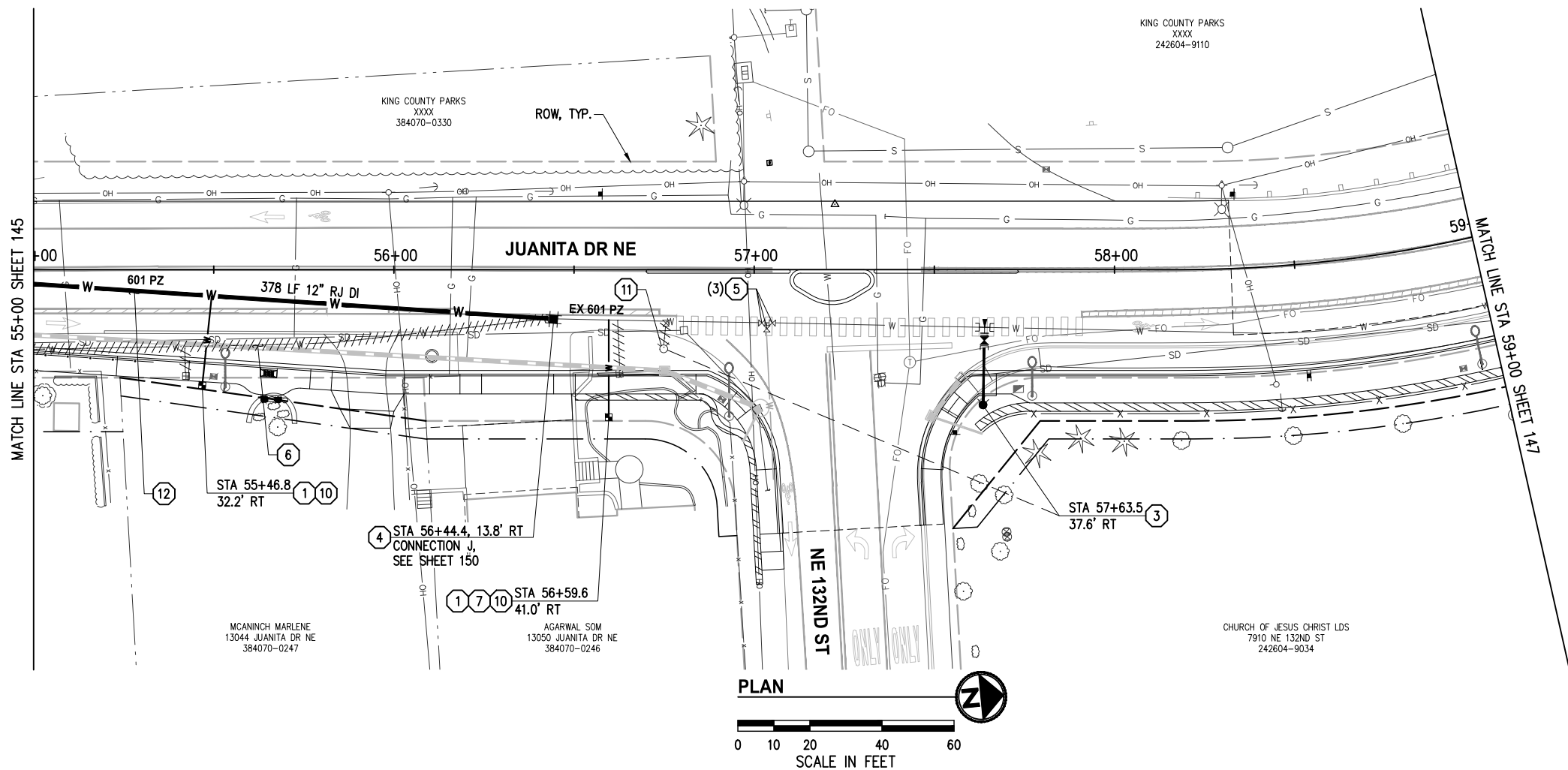
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 51+00 TO STA 55+00  
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 145 OF 161 SHEETS

September 16, 2023 - 8:18 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR03.DWG - Layout Name: WATR (4) STA 55+00 TO STA 59+00

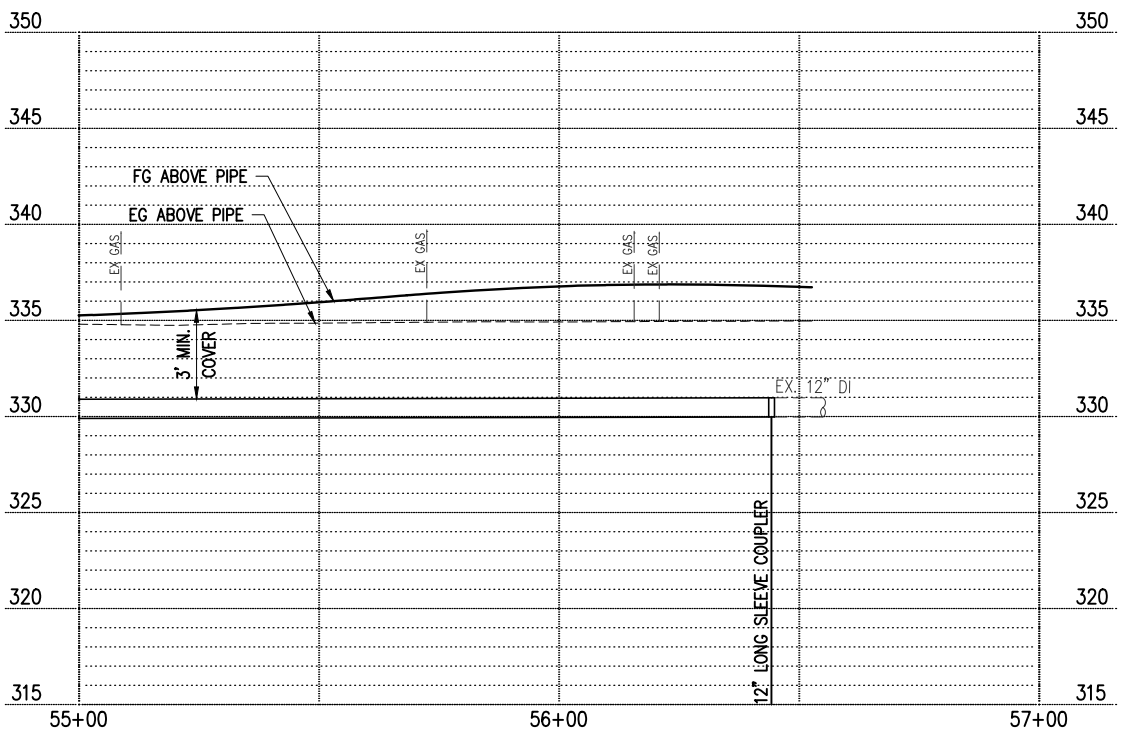
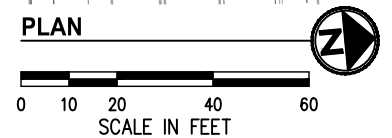


**GENERAL NOTES**

1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**

- ① 1" SERVICE PER NUD WATER STD DETAILS 4 & 9, SEE WATER SERVICE TABLE SHEET 156, REMOVE AND DISPOSE OF EXISTING METER BOX AND APPURTENANCES. CLOSE CORP STOP AT MAIN OR ABANDON WITH MAIN. SALVAGE THE EXISTING METER AND COORDINATE WITH THE DISTRICT FOR REINSTALLATION INTO SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK SIDE OF THE METER
- ③ HYDRANT ASSEMBLY PER NUD WATER STD DETAIL 3, EXCEPT INSTALL TAPPING TEE PER NUD STD DETAIL 20 IN LIEU OF DI TEE
- ④ CONNECT TO EX WATER MAIN, SEE CONNECTION SHEETS 148-149
- ⑤ REPLACE VALVE BOX AND INSTALL OPERATING NUT EXTENSION (WHERE REQ'D) PER NUD WATER STD DETAIL 11, REMOVE AND DISPOSE OF EXISTING VALVE BOX
- ⑥ REMOVE EXISTING WATER MAIN AS NEEDED TO INSTALL STORM LINE
- ⑦ INSTALL SERVICE UNDER BLOCK WALL PER DETAIL 1, SHEET 151
- ⑩ INSTALL PRESSURE REDUCING VALVE PER NUD STD DETAIL 21 BEHIND METER
- ⑪ REMOVE HYDRANT ASSEMBLY, SEE GENERAL WATER NOTE 6 ON SHEET 134.
- ⑫ DEFLECT WATER MAIN PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN ALIGNMENT



PROFILE TBD  
PENDING POTHOLES

**HYDRANT STA 57+64 PROFILE**  
HORIZ 1"=20', VERT 1"=5'

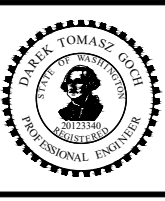
**LEGEND**

- ////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W — WATER LINE
- ⊗ WATER VALVE AS NOTED
- ⊠ WATER METER
- ⊞ LONG SLEEVE COUPLER
- ⊞ FL x RJ ADAPTER
- FIRE HYDRANT
- ▲ CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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DESIGNED BY: DG	DRAWN BY: DG
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
STA 55+00 TO STA 59+00  
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.  
SHEET 146 OF 161 SHEETS

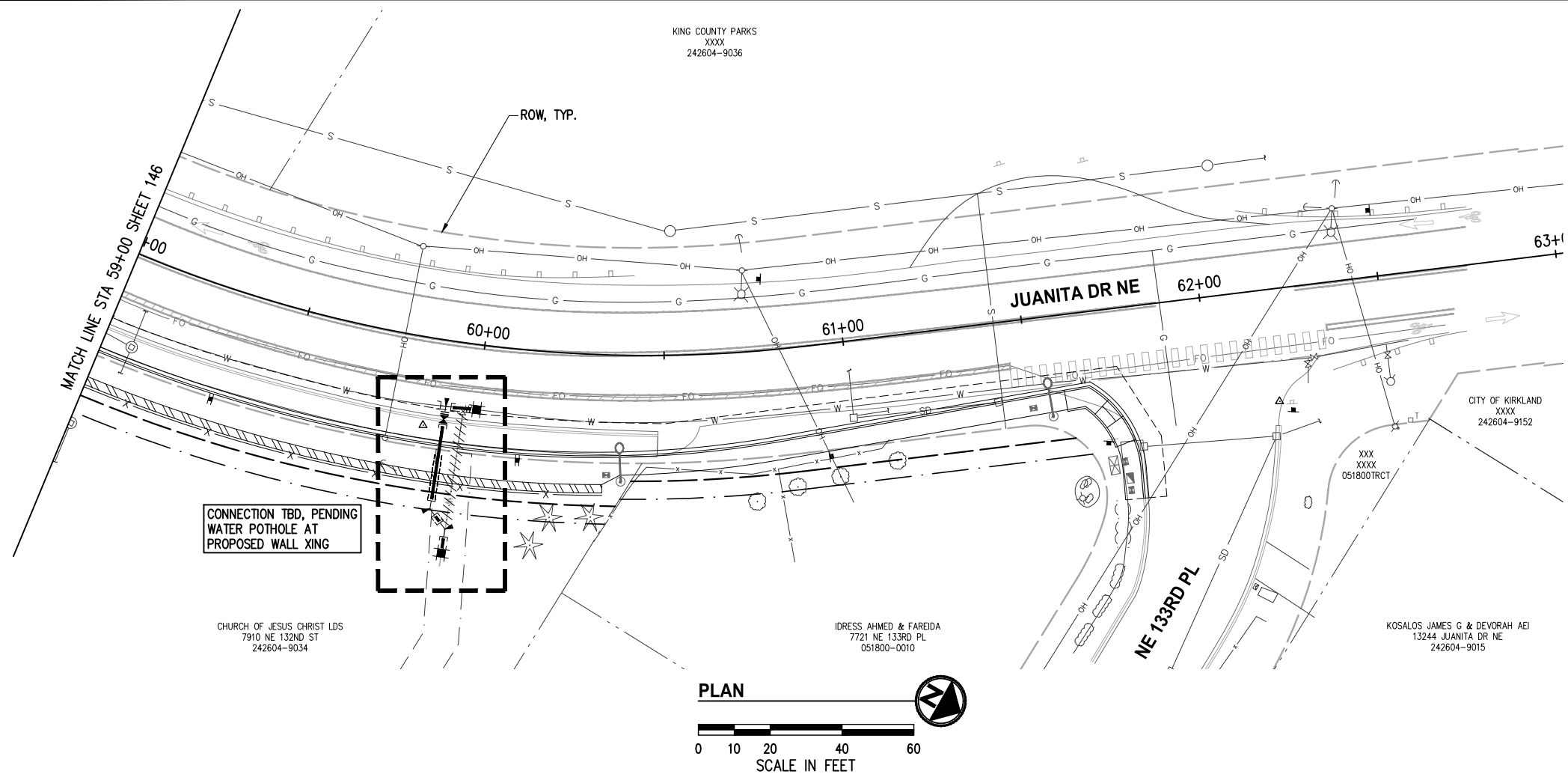
September 16, 2023 - 8:18 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR03.DWG - Layout Name: WATR (5) STA 59+00 TO STA 63+00

KING COUNTY PARKS  
XXXX  
242604-9036

**GENERAL NOTES**

1. FOR GENERAL NOTES SEE SHEET KEY, SHEET 134

**WATER CONSTRUCTION NOTES**



CONNECTION TBD, PENDING  
WATER POTHOLE AT  
PROPOSED WALL XING

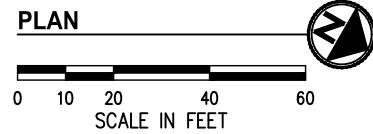
CHURCH OF JESUS CHRIST LDS  
7910 NE 132ND ST  
242604-9034

IDRESS AHMED & FAREIDA  
7721 NE 133RD PL  
051800-0010

KOSALOS JAMES G & DEVORAH AEI  
13244 JUANITA DR NE  
242604-9015

CITY OF KIRKLAND  
XXXX  
242604-9152

XXX  
XXXX  
051800TRCT



PROFILE TBD  
PENDING POTHOLES

**CONNECTION STA 60+00 PROFILE**  
HORIZ 1"=20', VERT 1"=5'

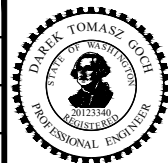
**LEGEND**

- /////// ABANDON PIPE, SEE GENERAL WATER NOTE 4, SHEET 134
- W WATER LINE
- ⊕ WATER VALVE AS NOTED
- ⊠ WATER METER
- ⊞ LONG SLEEVE COUPLING
- ⊞ FL x RJ ADAPTER
- FIRE HYDRANT
- ◀ CONC THRUST BLOCKS PER NUD STD DETAIL 1
- CAP

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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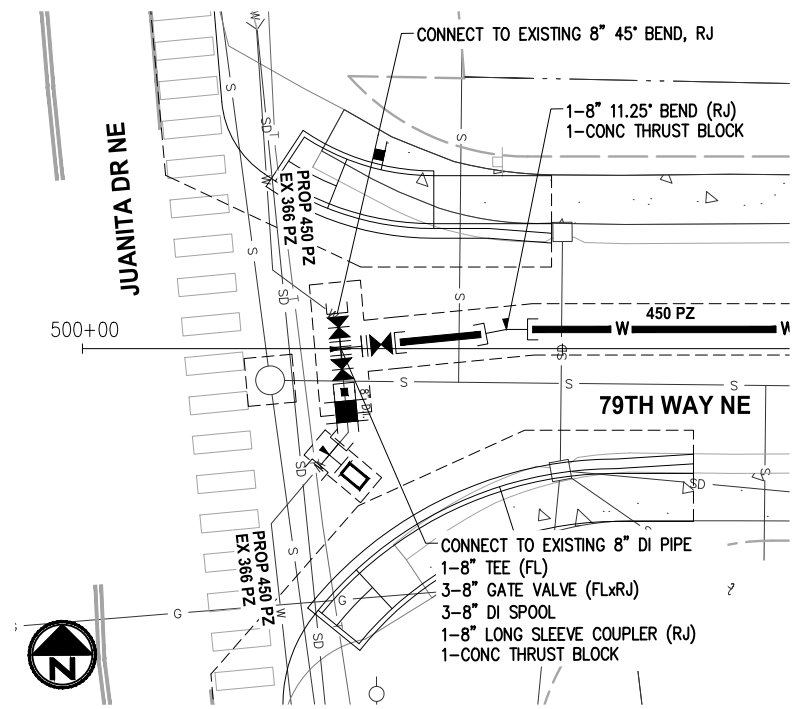
**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**

STA 59+00 TO STA 63+00

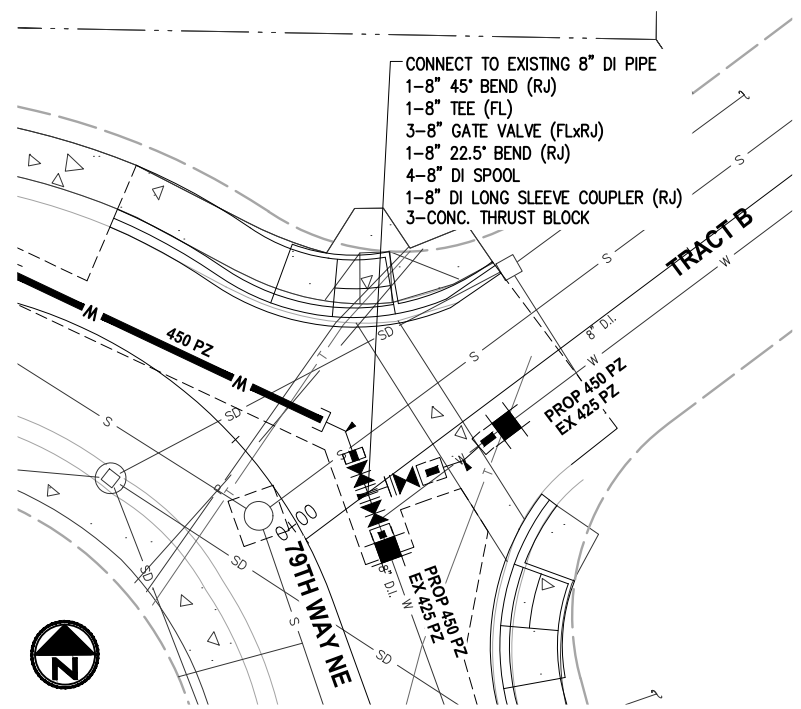
**NUD WATER & SEWER PLAN & PROFILE**

REFERENCE SHEET NO.
SHEET 147 OF 161 SHEETS

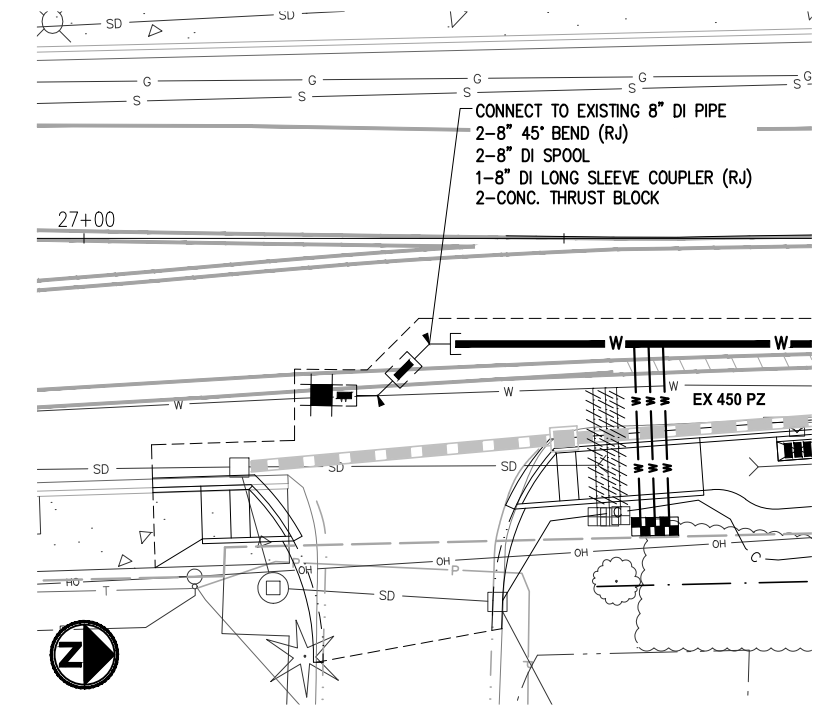
September 16, 2023 - 8:20 PM - DAREK - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\WATR-XING01.DWG - Layout Name: (1) WTR XING PROF



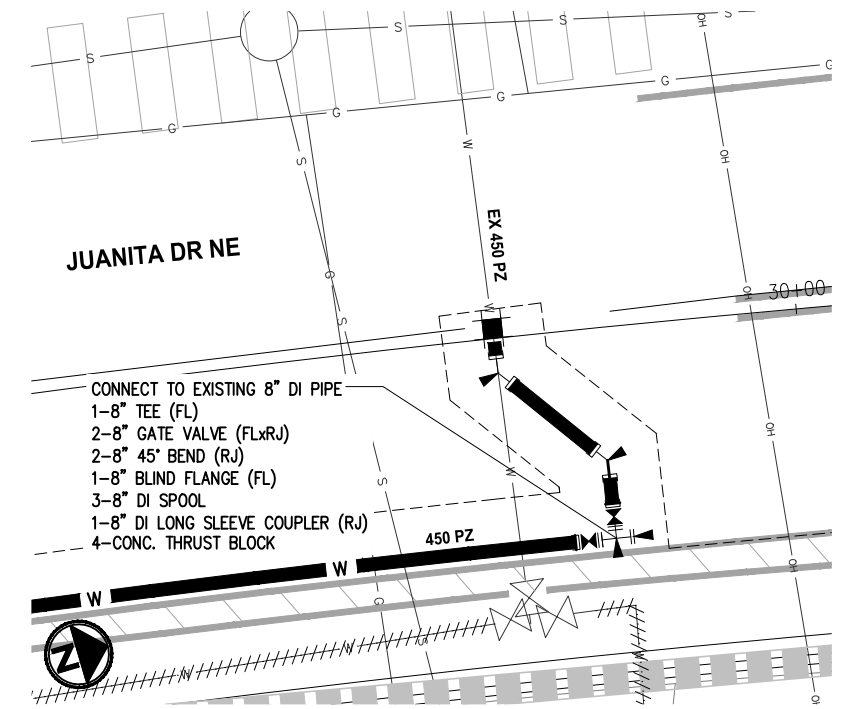
**CONNECTION DETAIL A**  
HOR: 1"=10'



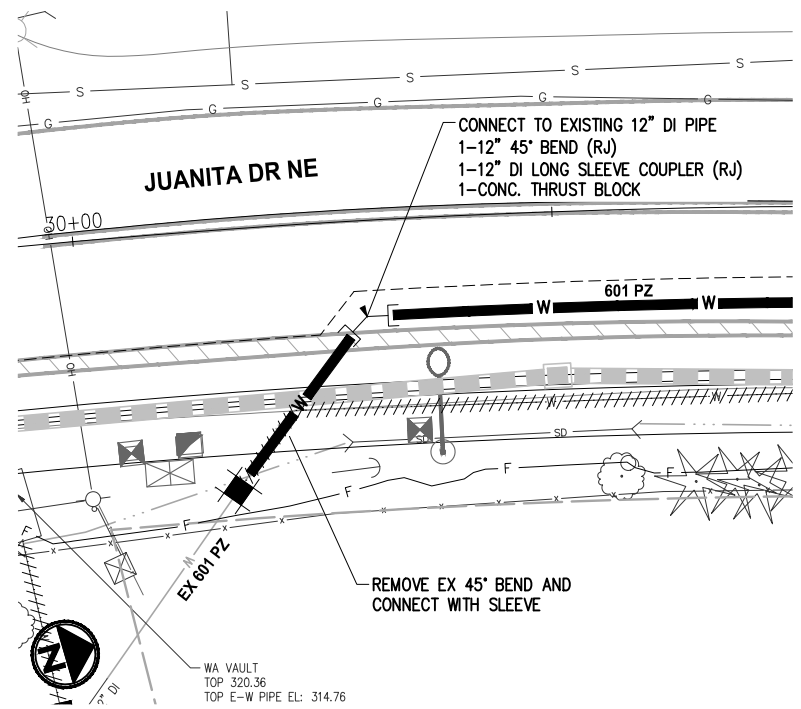
**CONNECTION DETAIL B**  
HOR: 1"=10'



**CONNECTION DETAIL C**  
HOR: 1"=10'



**CONNECTION DETAIL D**  
HOR: 1"=5'

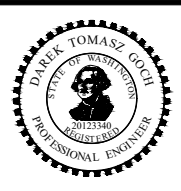


**CONNECTION DETAIL E**  
HOR: 1"=10'

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
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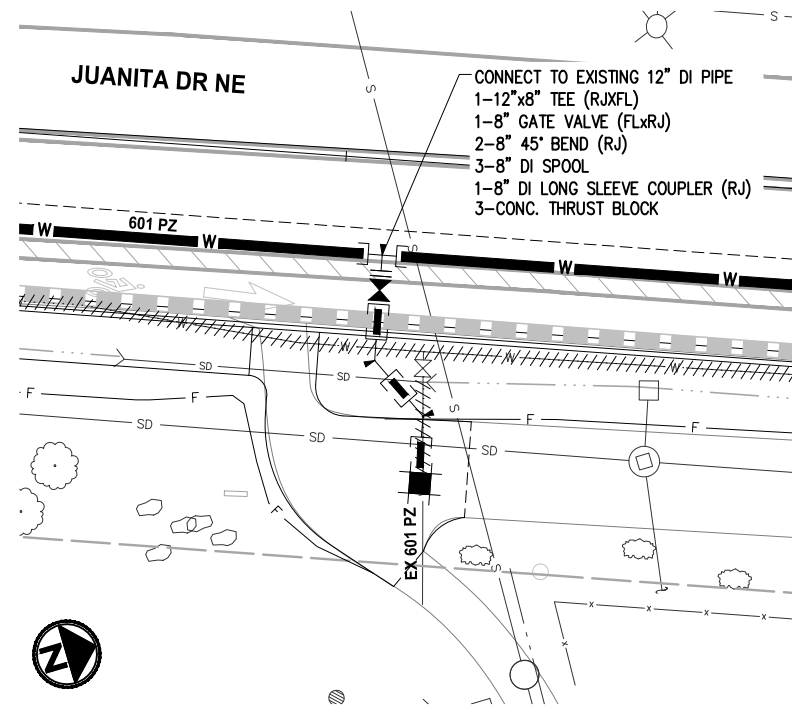
FUNDING NO. 19065

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

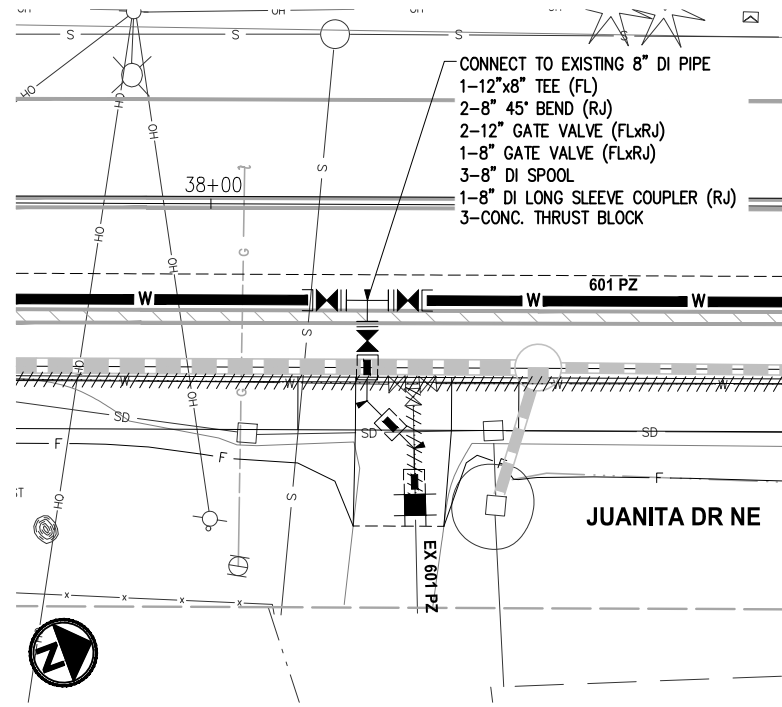
**NUD WATER CONNECTIONS**

REFERENCE SHEET NO.
SHEET 148 OF 161 SHEETS

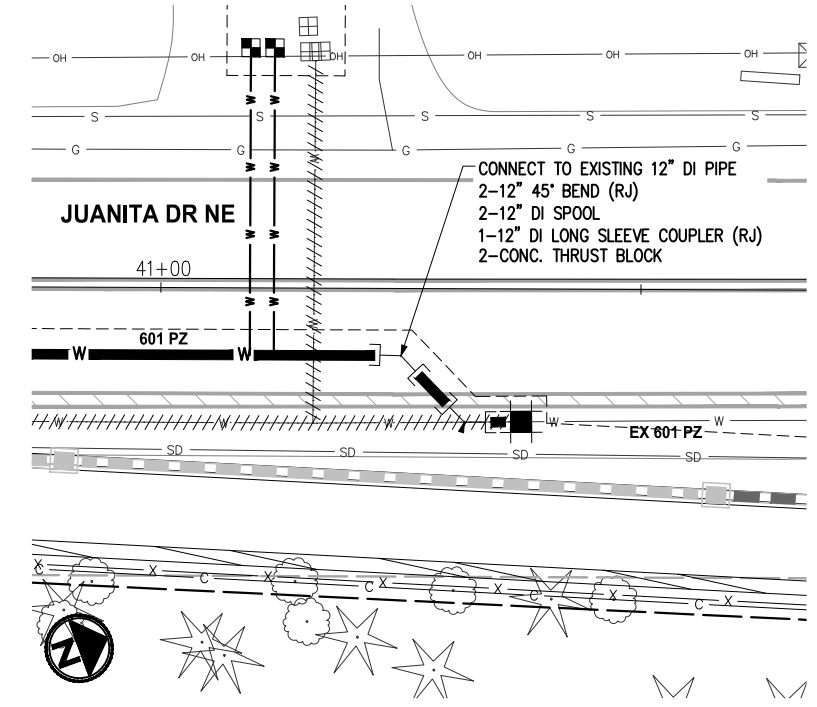
September 16, 2023 - 8:20 PM - DAREK - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\WATR-XING01.DWG - Layout Name: (2) WTR XING PROF



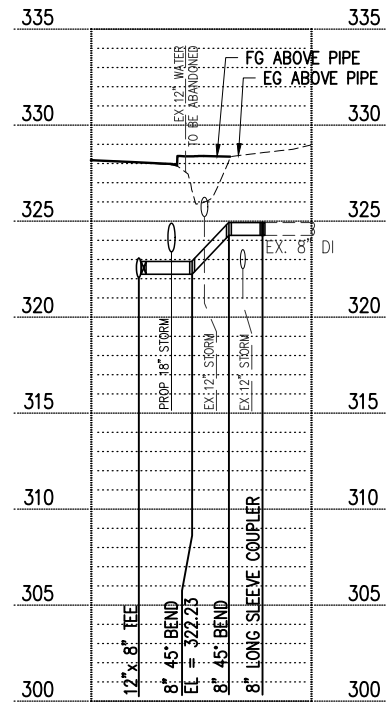
**CONNECTION DETAIL F**  
HOR: 1"=10'



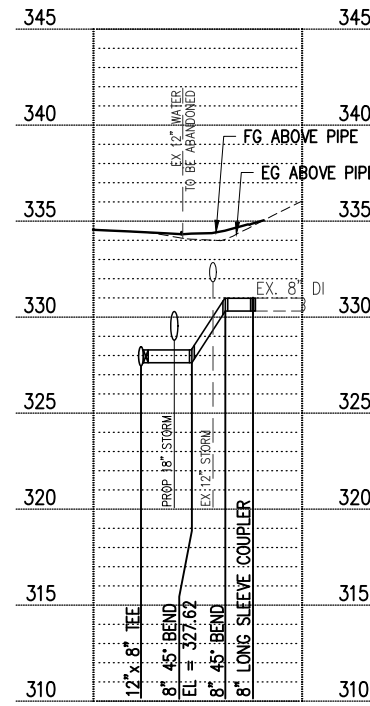
**CONNECTION DETAIL G**  
HOR: 1"=10'



**CONNECTION DETAIL H**  
HOR: 1"=10'



**CONNECTION F PROFILE**  
HORIZ 1"=20', VERT 1"=5'

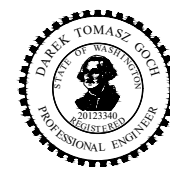


**CONNECTION G PROFILE**  
HORIZ 1"=20', VERT 1"=5'

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



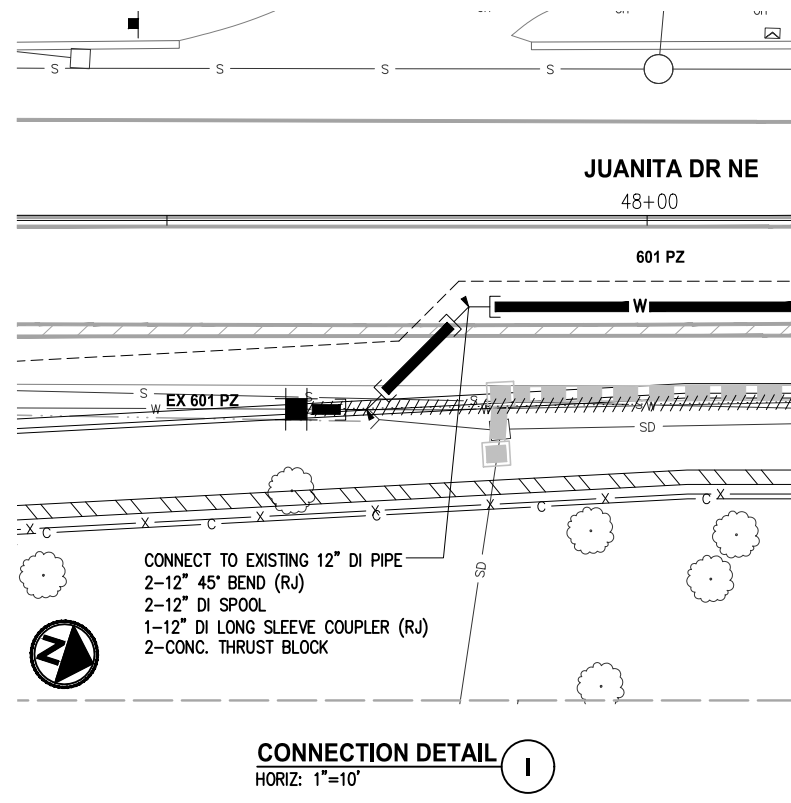
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FUNDING NO. 19065

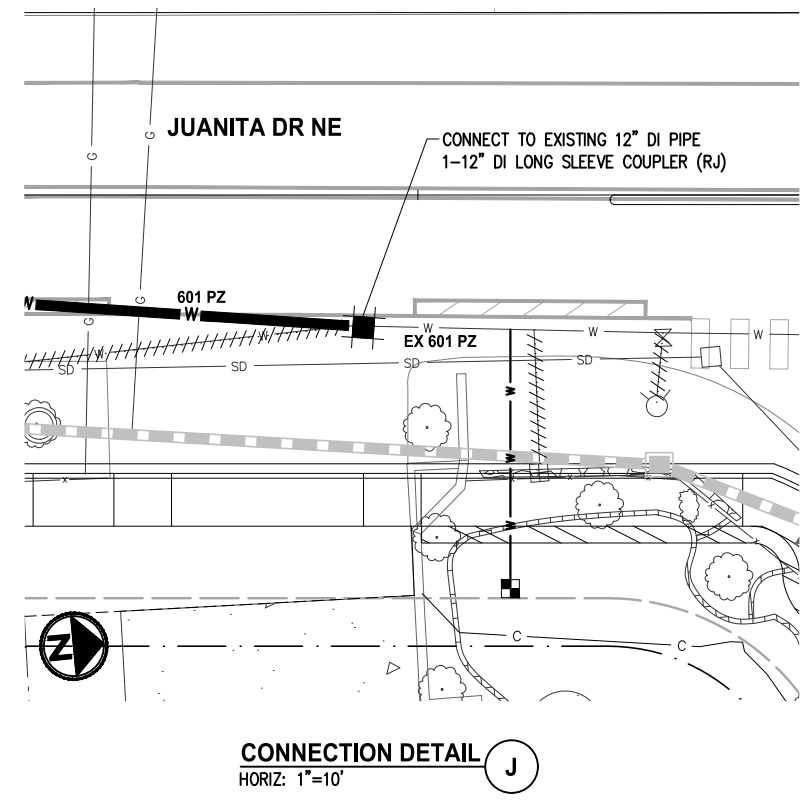
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
NUD WATER CONNECTIONS

REFERENCE SHEET NO.
SHEET 149 OF 161 SHEETS

September 16, 2023 - 8:20 PM - DAREK - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR-XING01.DWG - Layout Name: (3) WTR XING PROF 100%



**CONNECTION DETAIL I**  
HORIZ: 1"=10'

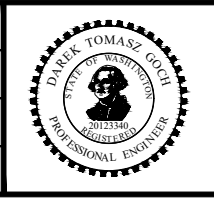


**CONNECTION DETAIL J**  
HORIZ: 1"=10'

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DGDG	DRAWN BY: DG
9/2023	9/2023

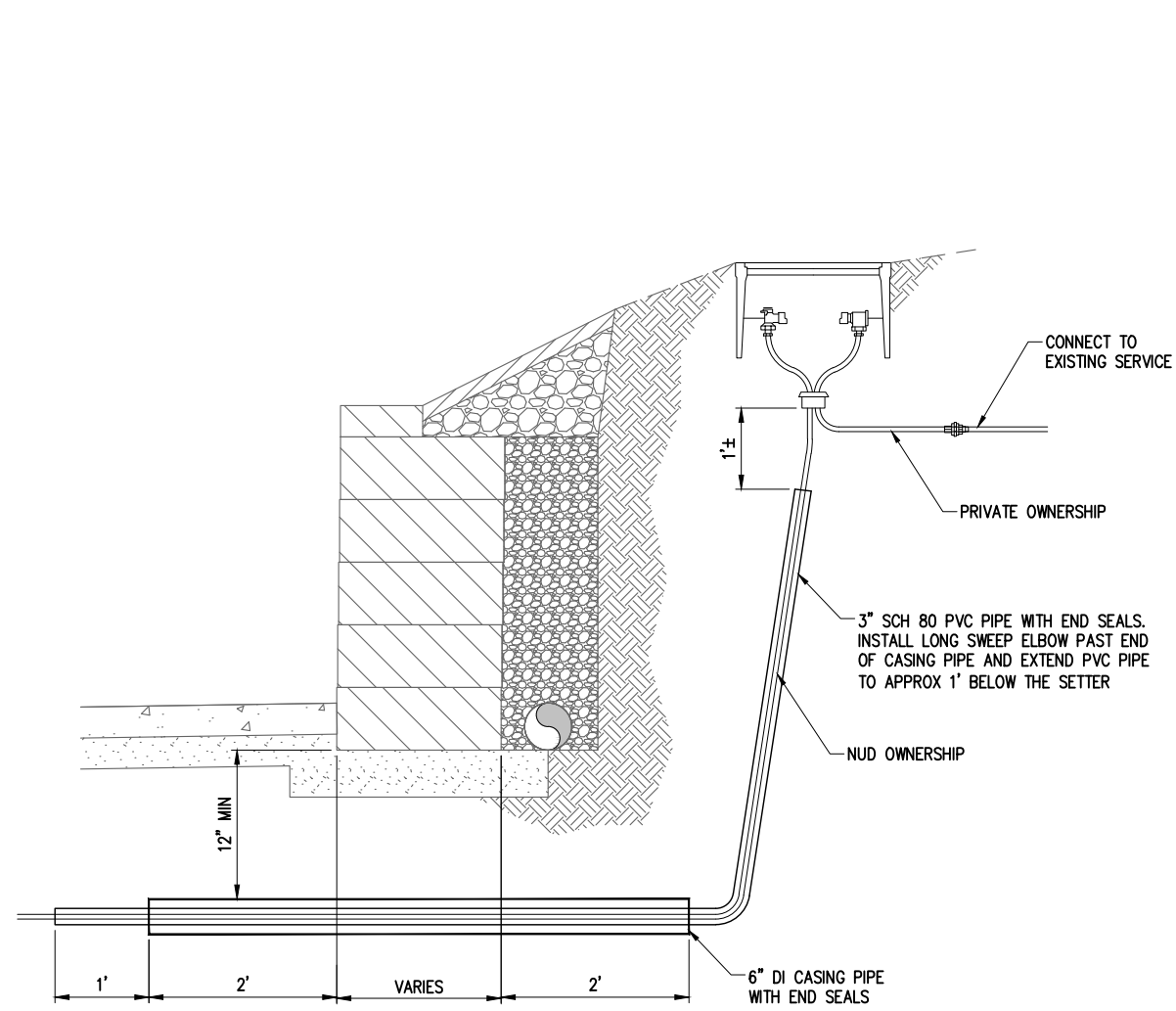
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FUNDING NO. 19065

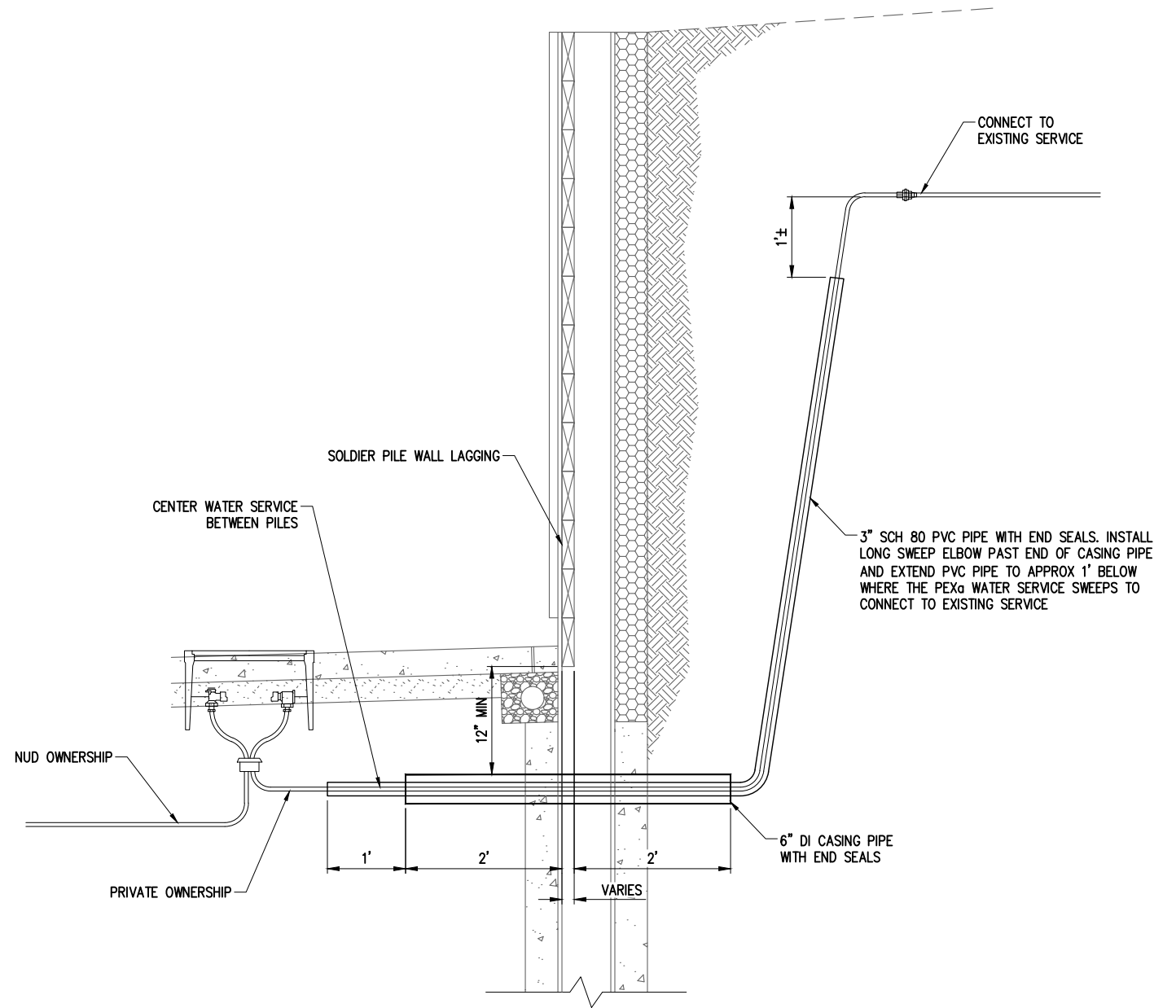
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
**NUD WATER CONNECTIONS**

REFERENCE SHEET NO.
SHEET 150 OF 161 SHEETS

September 16, 2023 - 8:20 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\NUD DET05.DWG - Layout Name: NUD DET01



**SERVICE UNDER BLOCK WALL DETAIL** 1  
NTS

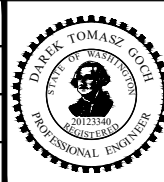


**SERVICE UNDER SOLDIER PILE WALL DETAIL** 2  
NTS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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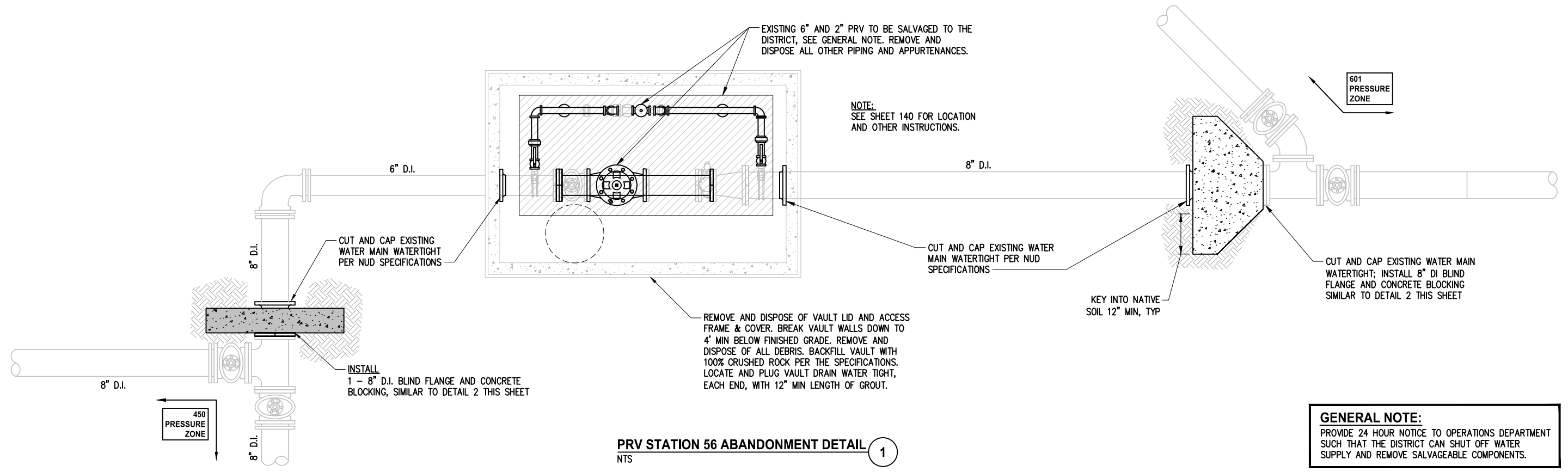
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**NUD WATER DETAILS**

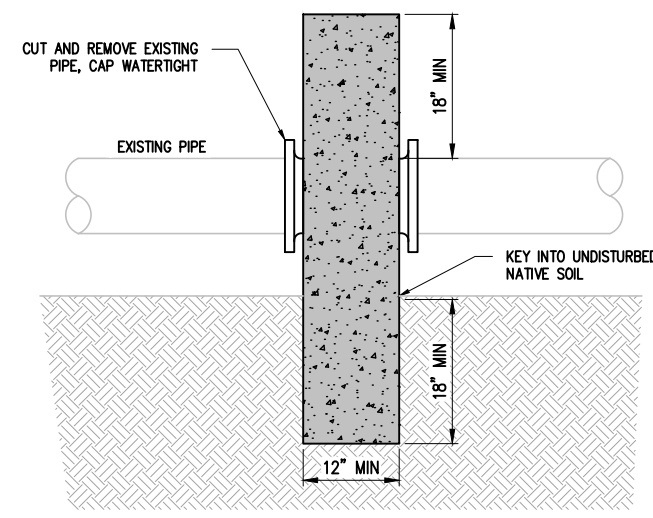
REFERENCE SHEET NO.  
SHEET 151 OF 161 SHEETS

September 16, 2023 - 8:20 PM - VONNIE - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\NUD DET01.DWG - Layout Name: NUD DET01



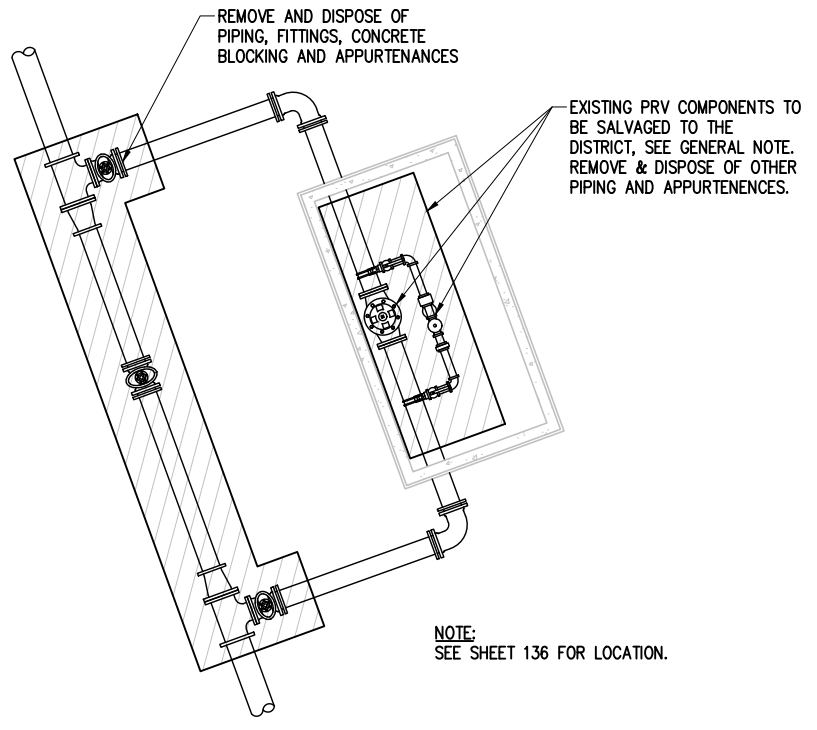
**PRV STATION 56 ABANDONMENT DETAIL** 1  
NTS

**GENERAL NOTE:**  
PROVIDE 24 HOUR NOTICE TO OPERATIONS DEPARTMENT SUCH THAT THE DISTRICT CAN SHUT OFF WATER SUPPLY AND REMOVE SALVAGEABLE COMPONENTS.

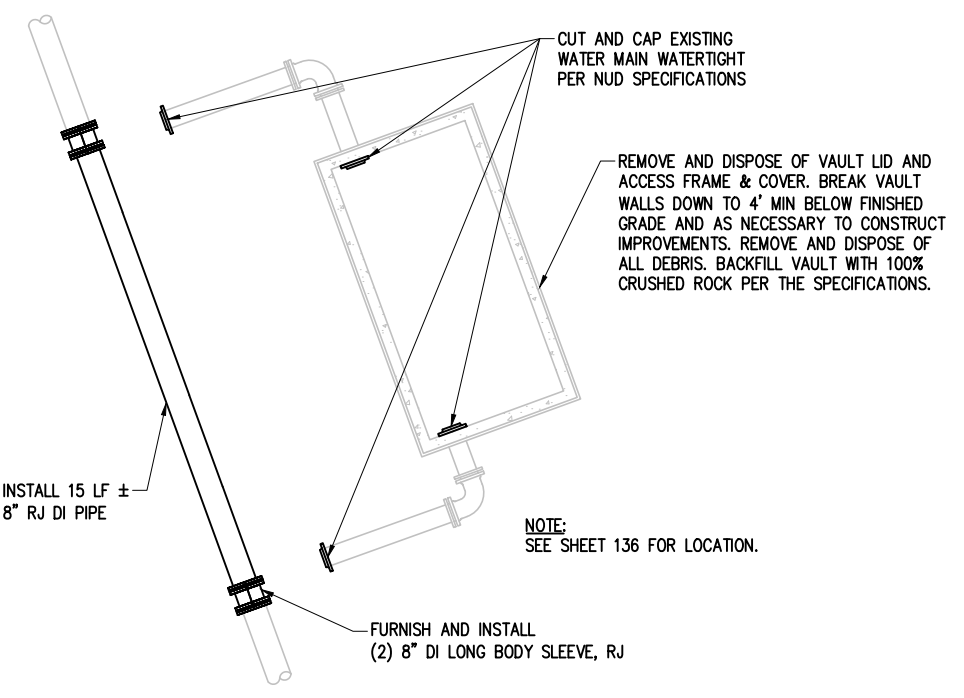


**NOTE:**  
BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT. INSTALL 8 MIL PLASTIC SHEETING BETWEEN FITTING AND BLOCK.

**CAP AND BLOCKING DETAIL** 2  
NTS



**EXISTING PRV STATION 58 DETAIL** 3  
NTS



**PRV STATION 58 ABANDONMENT DETAIL** 4  
NTS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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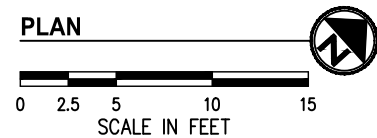
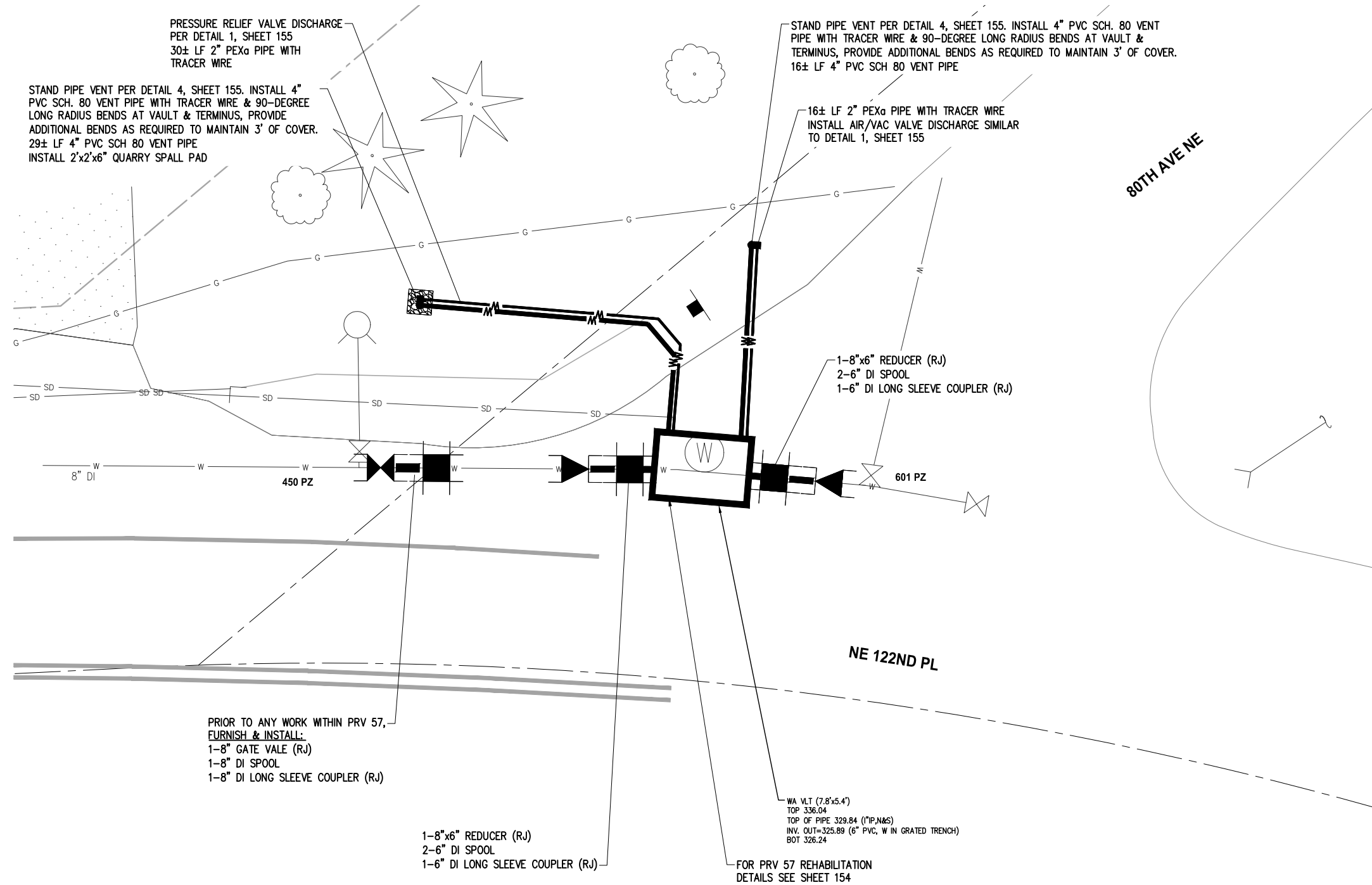
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
425/450 PRESSURE ZONE CONVERSION  
**PRV STATION 56 & 58 DETAILS**

REFERENCE SHEET NO.
SHEET 152 OF 161 SHEETS



September 16, 2023 - 8:22 PM - VONNIE - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\WATR - PRV57 - PLAN.DWG - Layout Name: WATR - PRV 57



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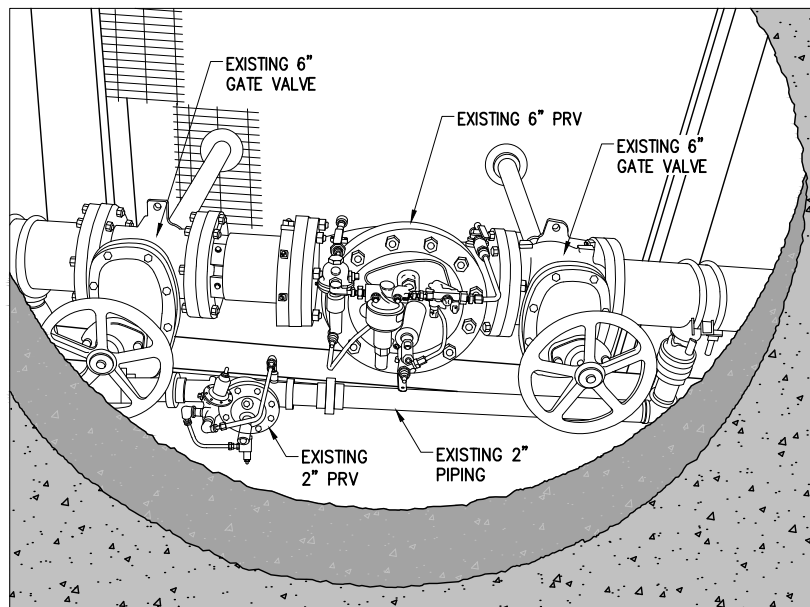
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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

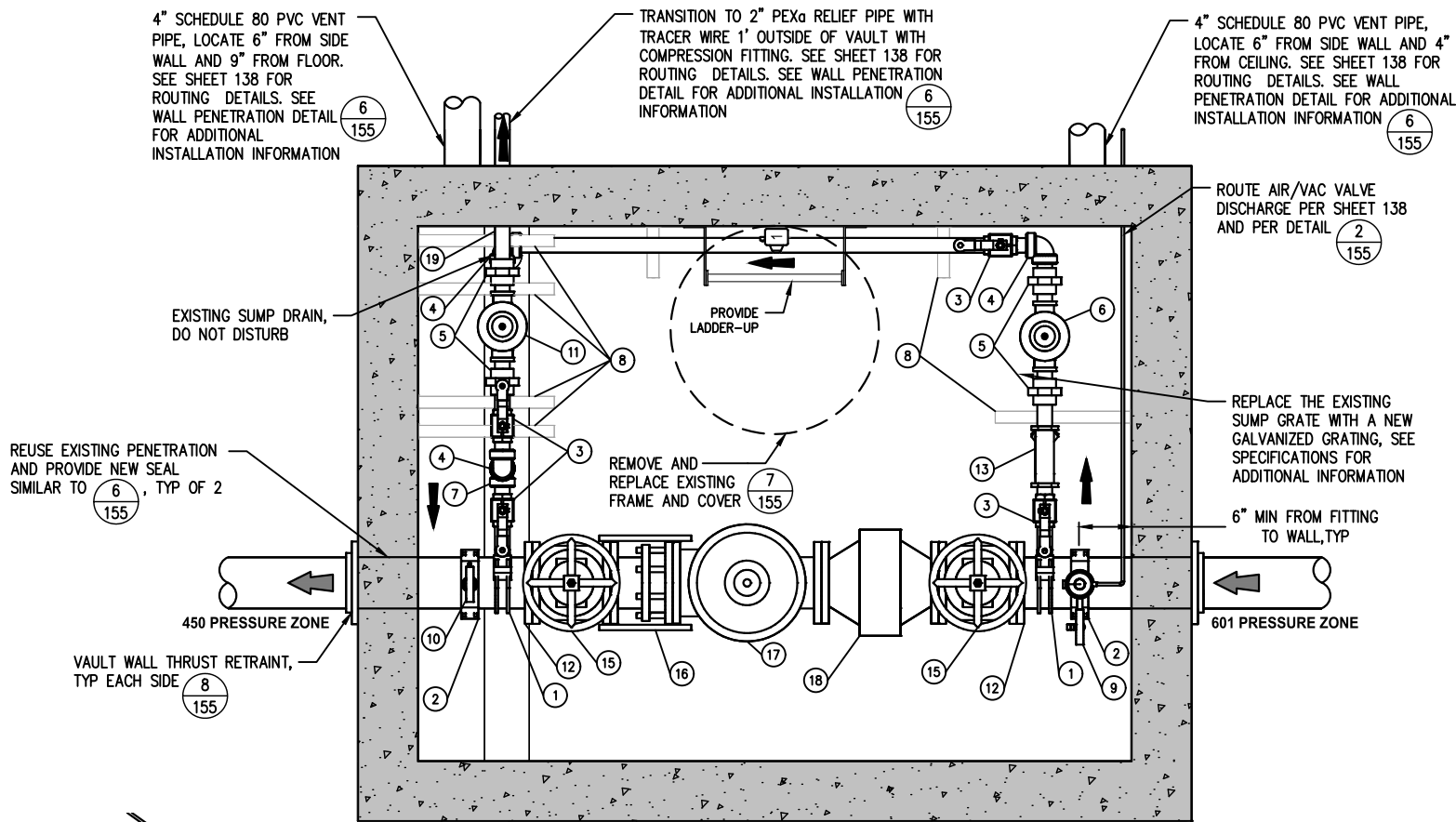
425/450 PRESSURE ZONE CONVERSION  
PRV STATION 57 REHABILITATION PLAN

REFERENCE SHEET NO.
SHEET 153 OF 161 SHEETS

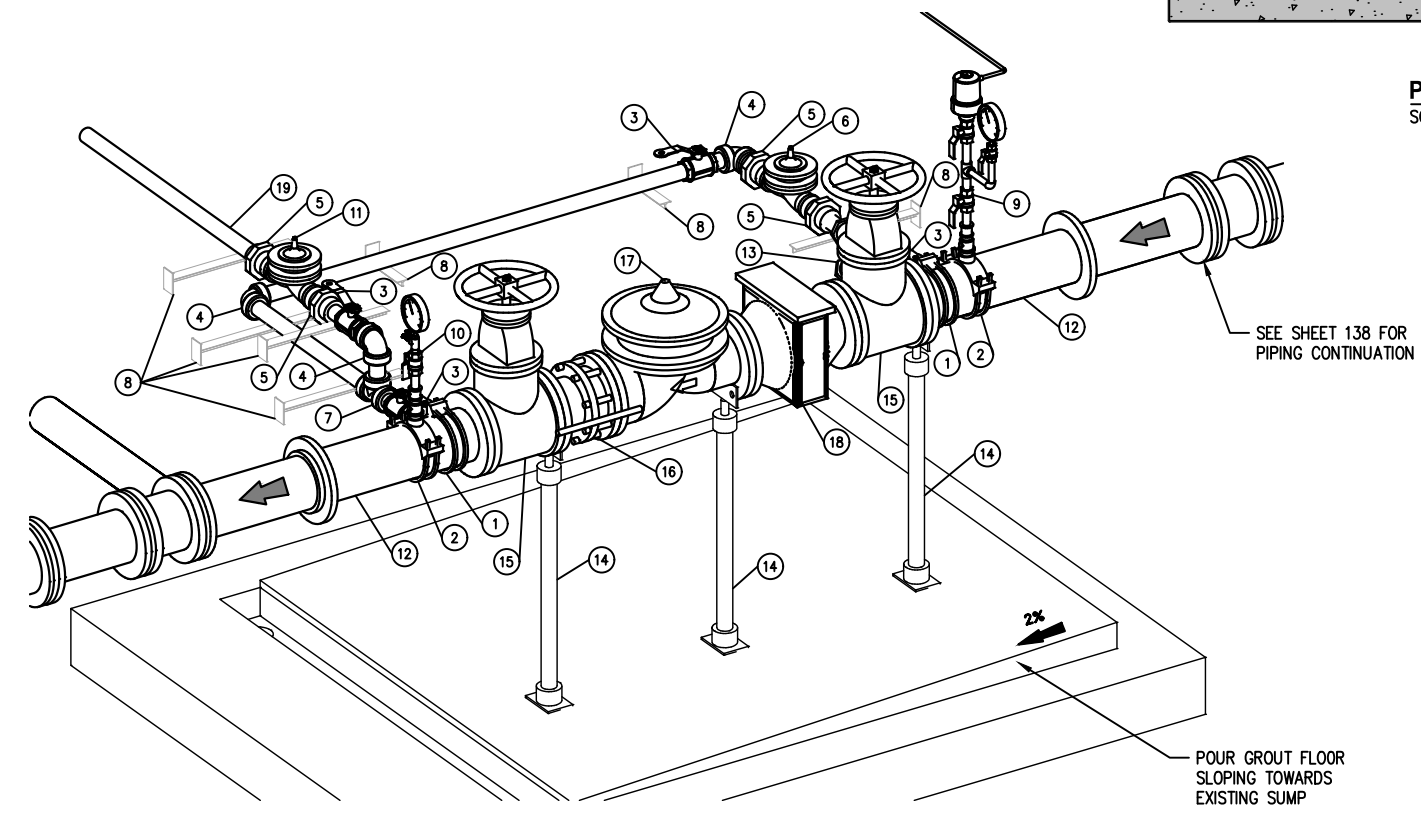
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**EXISTING PRV STATION 57 DETAIL** (1)  
NTS



**PRV STATION 57 PLAN DETAIL** (2)  
SCALE: 1" = 1'

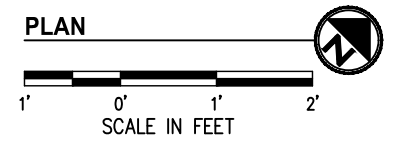


**PRV STATION 57 OBLIQUE DETAIL** (3)  
NTS

- NOTES**
- EXISTING PIPING, FITTINGS, AND APPURTENANCES TO BE REPLACED WITH NEW AS SHOWN UNLESS OTHERWISE NOTED. SEE THE MATERIAL LIST AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - PROVIDE 24 HOUR NOTICE TO THE DISTRICT SUCH THAT THE DISTRICT CAN SHUT OFF WATER SUPPLY AND REMOVE SALVAGABLE COMPONENTS.
  - PREPARE AND COAT/RECOAT ALL PIPING, VALVES, AND WALLS PER THE PROJECT SPECIFICATIONS.

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
1	2	6" PIPE SADDLE WITH 2" IP OUTLET
2	2	6" PIPE SADDLE WITH 1" IP OUTLET
3	4	2" BRASS BALL VALVE W/ HAND LEVER
4	3	2" BRASS 90° BEND, FIP
5	4	2" BRASS UNION, FIP
6	1	EXISTING 2" PRESSURE REDUCING VALVE ASSEMBLY TO BE REUSED
7	1	2" BRASS TEE, FIP
8	MANY	PIPE SUPPORT (5) (155)
9	1	AIR/VAC VALVE AND PRESSURE GAUGE (2) (155)
10	1	HOSE BIBB AND PRESSURE GAUGE (3) (155)
11	1	2" PRESSURE RELIEF VALVE
12	2	6" DI PIPE, FLxPE (6) (155)
13	1	2" BRASS STRAINER
14	3	ADJUSTABLE PIPING SUPPORT, STANDON #S89
15	2	6" DI GATE VALVE, FLxFL
16	1	6" DISMANTLING JOINT, FLxFL
17	1	EXISTING 6" PRESSURE REDUCING VALVE, FLxFL TO BE REUSED
18	1	H6" STRAINER FLxFL
19	1	2" BRASS NIPPLE INSIDE VAULT, TRANSITION TO 2" POLYETHYLENE PIPE 1' OUTSIDE VAULT WITH FIPxPACK FITTING

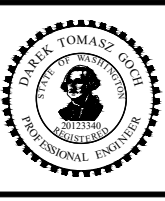
PROVIDE 2" BRASS NIPPLES, MIP, LENGTH TO FIT, AS NECESSARY TO HAVE A COMPLETE AND FUNCTIONAL SYSTEM. INSTALL PIPE AND SUPPORTS AS NECESSARY TO PROVIDE A RIGID, SECURE, NON-SAGGING SYSTEM.



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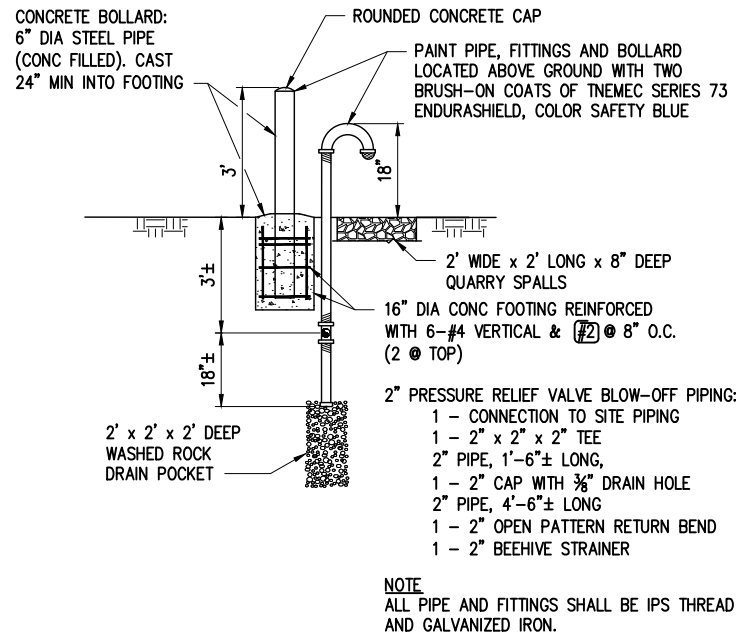
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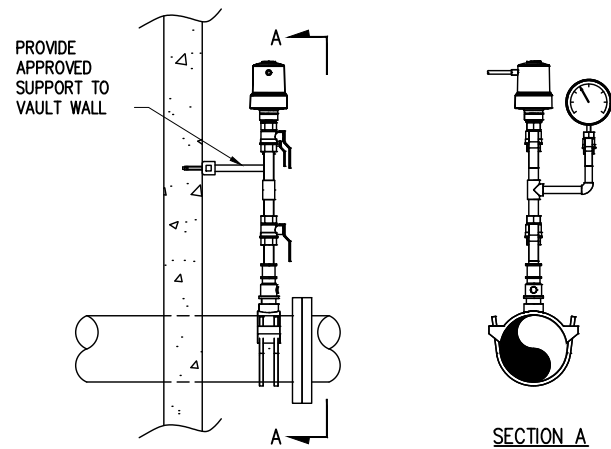
**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
425/450 PRESSURE ZONE CONVERSION  
PRV STATION 57 REHABILITATION DETAILS

REFERENCE SHEET NO.  
SHEET 154 OF 161 SHEETS

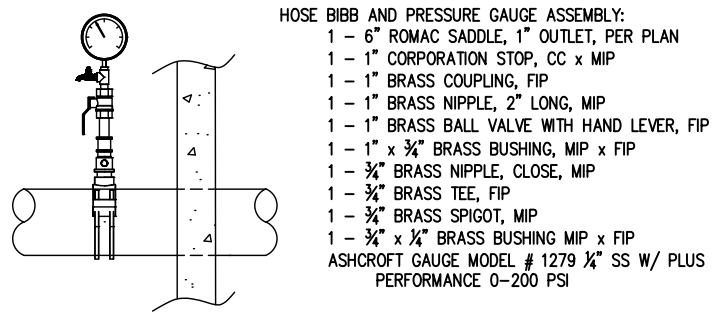
September 16, 2023 - 8:22 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY IMPROVEMENTS\CONTRACT\19065\NUD DET03.DWG - Layout Name: (1) MISC PRV DETAILS



**PRESSURE RELIEF VALVE DISCHARGE DETAIL** ①  
NTS



**1" AIR/VAC VALVE & PRESSURE GAUGE DETAIL** ②  
NTS



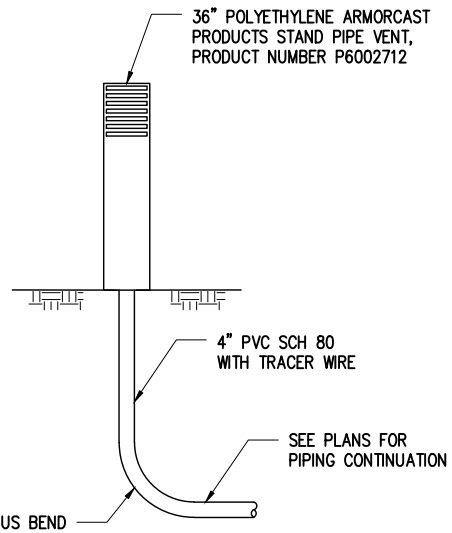
**HOSE BIBB & PRESSURE GAUGE DETAIL** ③  
NTS

- HOSE BIBB AND PRESSURE GAUGE ASSEMBLY:**  
1 - 6" ROMAC SADDLE, 1" OUTLET, PER PLAN  
1 - 1" CORPORATION STOP, CC x MIP  
1 - 1" BRASS COUPLING, FIP  
1 - 1" BRASS NIPPLE, 2" LONG, MIP  
1 - 1" BRASS BALL VALVE WITH HAND LEVER, FIP  
1 - 1" x 3/4" BRASS BUSHING, MIP x FIP  
1 - 3/4" BRASS NIPPLE, CLOSE, MIP  
1 - 3/4" BRASS TEE, FIP  
1 - 3/4" BRASS SPIGOT, MIP  
1 - 3/4" x 1/4" BRASS BUSHING MIP x FIP  
ASHCROFT GAUGE MODEL # 1279 1/4" SS W/ PLUS PERFORMANCE 0-200 PSI

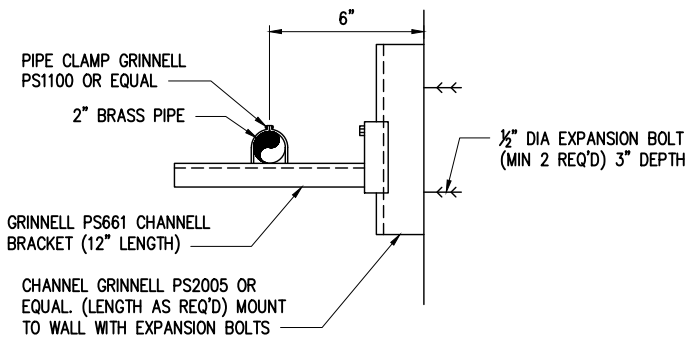
**NOTE**  
ROUTE AIR/VAC VALVE TO VAULT EXTERIOR PER PLAN. PROVIDE 1" COPPER PIPE INSIDE VAULT AND TRANSITION TO 2" PEX-G PIPE 1' OUTSIDE VAULT WITH COMPRESSION FITTING. PROVIDE BRASS PIPE AND FITTINGS AS NECESSARY TO HAVE A COMPLETE AND FUNCTIONAL SYSTEM.

- AIR/VAC VALVE AND PRESSURE GAUGE ASSEMBLY:**  
1 - 6" ROMAC SADDLE, 1" OUTLET, PER PLAN  
1 - 1" CORPORATION STOP, CC x MIP  
1 - 1" BRASS COUPLING, FIP  
1 - 1" BRASS NIPPLE, 2" LONG, MIP  
1 - 1" BRASS BALL VALVE WITH HAND LEVER, FIP  
1 - 1" BRASS NIPPLE, CLOSE, MIP  
1 - 1" BRASS TEE, FIP  
1 - 1" BRASS NIPPLE, 3" LONG, MIP  
1 - 1" BRASS BALL VALVE WITH HAND LEVER, FIP  
1 - 1" AIR/VAC VALVE, ARI D-040-C OR APPROVED EQUAL
- 1 - 1" x 3/4" BRASS BUSHING, MIP x FIP  
1 - 3/4" BRASS NIPPLE, 4" LONG, MIP  
1 - 3/4" BRASS 90° ELBOW, FIP  
1 - 3/4" BRASS NIPPLE, 3" LONG, MIP  
1 - 3/4" BRASS BALL VALVE WITH HAND LEVER, FIP  
1 - 3/4" x 1/4" BRASS BUSHING, MIP x FIP  
ASHCROFT GAUGE MODEL #1279 1/4" SS W/ PLUS PERFORMANCE, 0-200 PSI, W/MAXIMUM POINTER

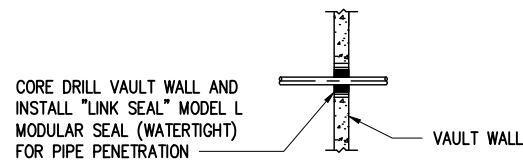
**NOTE**  
VALVES IN VERTICAL ORIENTATION SHALL HAVE HANDLES POINT DOWN.



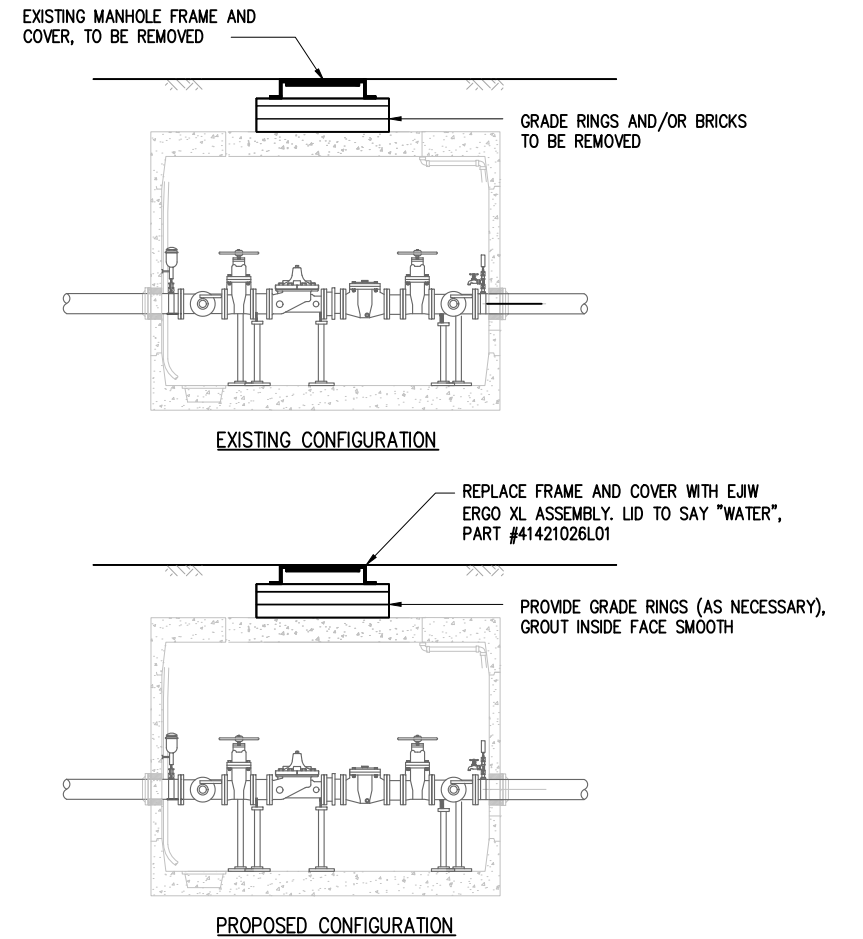
**STAND PIPE VENT DETAIL** ④  
NTS



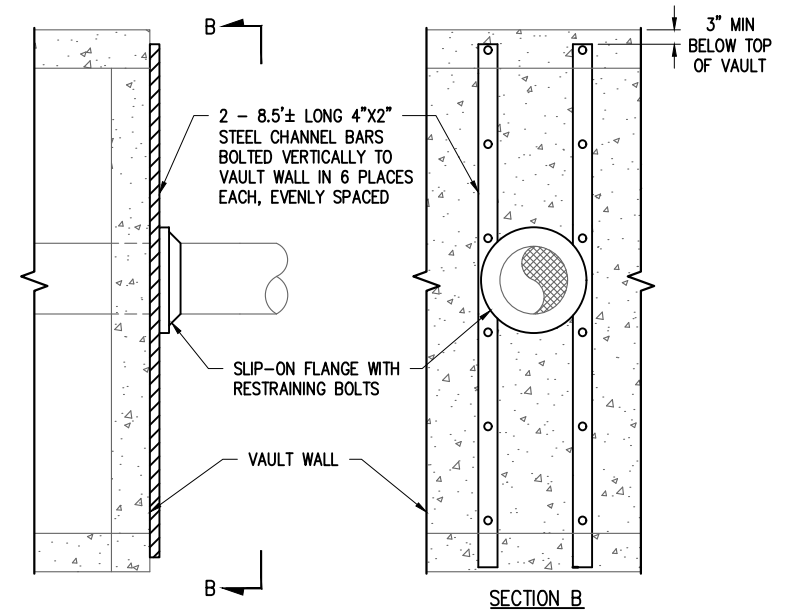
**PIPE SUPPORT DETAIL** ⑤  
NTS



**WALL PENETRATION DETAIL** ⑥  
NTS



**VAULT LID DETAIL** ⑦  
NTS

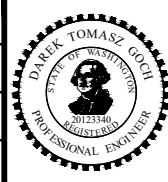


**VAULT WALL THRUST RESTRAINT DETAIL** ⑧  
NTS

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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

425/450 PRESSURE ZONE CONVERSION  
**MISCELLANEOUS PRV DETAILS**

REFERENCE SHEET NO.
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NUD WATER TABLE											
NO.	PLAN NO.	EX METER, (IN)	SERVICE ADDRESS	SVC TYPE	NUD ACCT NO.	METER NO.	METER INSTALL DATE	OWNER NAME	OWNER CONTACT INFO	MTR LOC VERIF.	LOCATION NOTES
1	137	0.75	12020 Juanita Dr NE Kirkland WA 98034-3431	Poly	147702	43580306	10/20/2011	JS Electric % Sailors	23002 Barker Rd Bothell 98021-9268	X	IN LINE WITH FRONT DOOR IN ASPHALT
2	139	0.75	12316 Juanita Dr NE Kirkland WA 98034-2512	Poly	266968	43451608	9/1/2011	Puneet Konghot & Tulasi Atluri	4011 Carracci Lane San Jose 95135-1170	X	3 METERS LEFT OF DRIVE
3	139	0.75	12320 Juanita Dr NE Kirkland WA 98034-2512	Poly	266976	43451609	9/1/2011	Mark & Francine Kruschwitz	12320 Juanita Dr NE Kirkland 98034-2512	X	3 METERS LEFT OF DRIVE
4	139	0.75	12324 Juanita Dr NE Kirkland WA 98034-2512	Poly	266984	43451601	9/1/2011	Mathiyalagan / Balasubramanian	10001 NE 1st St #W114 Bellevue 98004-5675	X	3 METERS LEFT OF DRIVE
5	141	0.75	12450 Juanita Dr NE Kirkland WA 98034-2567	Poly	299744	43451600	9/1/2011	Cheri Vanderwel	20415 150th Ave SE Monroe 98272-9178	X	LEFT OF DR
6	141	0.75	12454 Juanita Dr NE Kirkland WA 98034-2567	Poly	146563	43451602	9/1/2011	Ngo/ Do	11322 NE 128th St Kirkland 98034-6331	X	TOP OF BANK BEHIND MAILBOXES
7	141	0.75	12458 Juanita Dr NE Kirkland WA 98034-2567	Poly	298884	43451603	9/1/2011	Rorke and Nadine Haining	12458 Juanita Dr NE Kirkland 98034-2567	X	LEFT OF D/WY NEAR POWER POLE
8	141	0.75	12602 Juanita Dr NE Kirkland WA 98034-2563	Poly	260816	43451599	9/1/2011	Nancy Radke	12603 80th Ave NE Kirkland 98034-2509	X	TOP OF BANK IN BANK OF MAILBOXES
9	141	0.75	12610 Juanita Dr NE Kirkland WA 98034-2563	Poly	260296	43451569	9/1/2011	Ionel & Mihaela Patilea	12610 Juanita Dr NE Kirkland 98034-2563	X	TOP OF BANK IN BANK OF MAILBOXES
10	142	0.75	12619 Juanita Dr NE Kirkland WA 98034-2564	Poly	253456	43452548	8/29/2011	Matt & Patricia Davis II	12619 Juanita Dr NE Kirkland 98034-2564	X	RT SIDE OF PROP
11	142	0.75	12629 Juanita Dr NE Kirkland WA 98034-2564	Poly	251769	43452538	8/29/2011	Mary Linda Fobes	12629 Juanita Dr NE Kirkland 98034-2564	X	5' RIGHT POWER POLE
12	142	1	12634 Juanita Dr NE Kirkland WA 98034-2563	Poly	146530	43523267	9/12/2011	D Lees	12634 Juanita Dr NE Kirkland 98034-2563	X	RT OF POWER POLE
13	142	0.75	12707 Juanita Dr NE Kirkland WA 98034-2562	Poly	249862	43452518	8/29/2011	Lucas & Ginelle Moriarty	12707 Juanita Dr NE Kirkland 98034-2562	X	2 METERS CTR OF DRIVES
14	142	0.75	12708 Juanita Dr NE Kirkland WA 98034-2561	Poly	253848	43451638	9/5/2011	Sarabjit Mann & Parminder Kaur Mann	12708 Juanita Dr NE Kirkland 98034-2561	X	RT PROP, TOP OF BANK
15	142	0.75	12713 Juanita Dr NE Kirkland WA 98034-2562	Poly	249854	43452579	8/29/2011	Cathy Thompson	1933 S 375th St Federal Way 98003-7567	X	2 METERS CTR OF DRIVES
16	142	0.75	12723 Juanita Dr NE Kirkland WA 98034-2562	Poly	252632	43452614	8/29/2011	Etienna Bachand	12723 Juanita Dr NE Kirkland 98034-2562	X	2 MTRS 20' RT OF DR BH FENCE
17	142	0.75	12727 Juanita Dr NE Kirkland WA 98034-2562	Poly	225748	43452616	8/29/2011	Etienna Bachand	12723 Juanita Dr NE Kirkland 98034-2562	X	2 MTRS 20' RT OF 12723 DR BH FENCE
18	143	0.75	12801 Juanita Dr NE Kirkland WA 98034-2519	Poly	247353	43452617	8/29/2011	Sylvia Volchok	2920 76th Ave SE Unit 401 Mercer Island 98040-2749	X	RT OF DRIVE 10'
19	143	0.75	12809 Juanita Dr NE Kirkland WA 98034-2519	Poly	206011	43452620	8/29/2011	Brent Smith	12819 Juanita Dr NE Kirkland 98034-2519	X	APPROX 18' S. OF POLE & 5' WEST
20	144	0.75	12819 Juanita Dr NE Kirkland WA 98034-2519	Poly	268216	43452621	8/29/2011	Brent Smith	12819 Juanita Dr NE Kirkland 98034-2519	X	RT PROP LINE
21	144	0.75	12831 Juanita Dr NE Kirkland WA 98034-2519	Poly	146522	43452618	8/29/2011	Sarah Sears	127 Cedars Dr Troy 59935-9829	X	CENTER OF PROP 15' LEFT MAILBOX & 7' BACK
22	144	?	12918 Juanita Dr NE Kirkland WA 98034-2519	Poly	326624	?	4/26/2019	Xue/Li	12933 79th Pl NE Kirkland 98034	X	ONLY SVC, NO MTR, LEFT CTR PROP
23	144	0.75	12920 Juanita Dr NE Kirkland WA 98034-2558	Poly	146514	43451637	9/5/2011	Jim Burrows	12920 Juanita Dr NE Kirkland 98034-2558	X	12' LEFT OF DRIVE
24	145	0.75	12921 Juanita Dr NE Kirkland WA 98034-2559	Poly	146506	43452619	8/29/2011	Josh & Reynolds Berglund	12921 Juanita Dr NE Kirkland 98034-2559	X	RT PROP, IN HEDGE
25	145	0.75	12934 Juanita Dr NE Kirkland WA 98034-2558	Poly	146498	43451636	9/5/2011	Korra Contracting, LLC	12934 Juanita Dr NE Kirkland 98034-2558	X	4' LEFT OF DRIVE
26	145	0.75	13010 Juanita Dr NE Kirkland WA 98034-2556	Poly	295992	43452636	9/6/2011	Hamed Esfahani & Zainab Daghir-Alnoor	13010 Juanita Dr NE Kirkland 98034-2556	X	10' RIGHT OF DR.
27	145	0.75	13028 Juanita Dr NE Kirkland WA 98034-2556	Poly	146480	43452637	9/6/2011	Ajay & Anjali Goplani	13028 Juanita Dr NE Kirkland 98034-2556	X	LEFT CENTER OF PROP
28	145	0.75	13040 Juanita Dr NE Kirkland WA 98034-2556	Poly	146472	43452638	9/6/2011	Michael Ferguson	13040 Juanita Dr NE Kirkland 98034-2556	X	IN DR LT SIDE OF PROP
29	146	0.75	13044 Juanita Dr NE Kirkland WA 98034-2556	Poly	146464	43452639	9/6/2011	Marlene McAninch	13044 Juanita Dr NE Kirkland 98034-2556	X	RT CENTER OF PROP
30	146	0.75	13050 Juanita Dr NE Kirkland WA 98034-2556	Poly	307312	43451628	9/6/2011	Som Agarwal	13050 Juanita Dr NE Kirkland 98034-2556	X	20' LEFT DR IN FRONT OF FENCE

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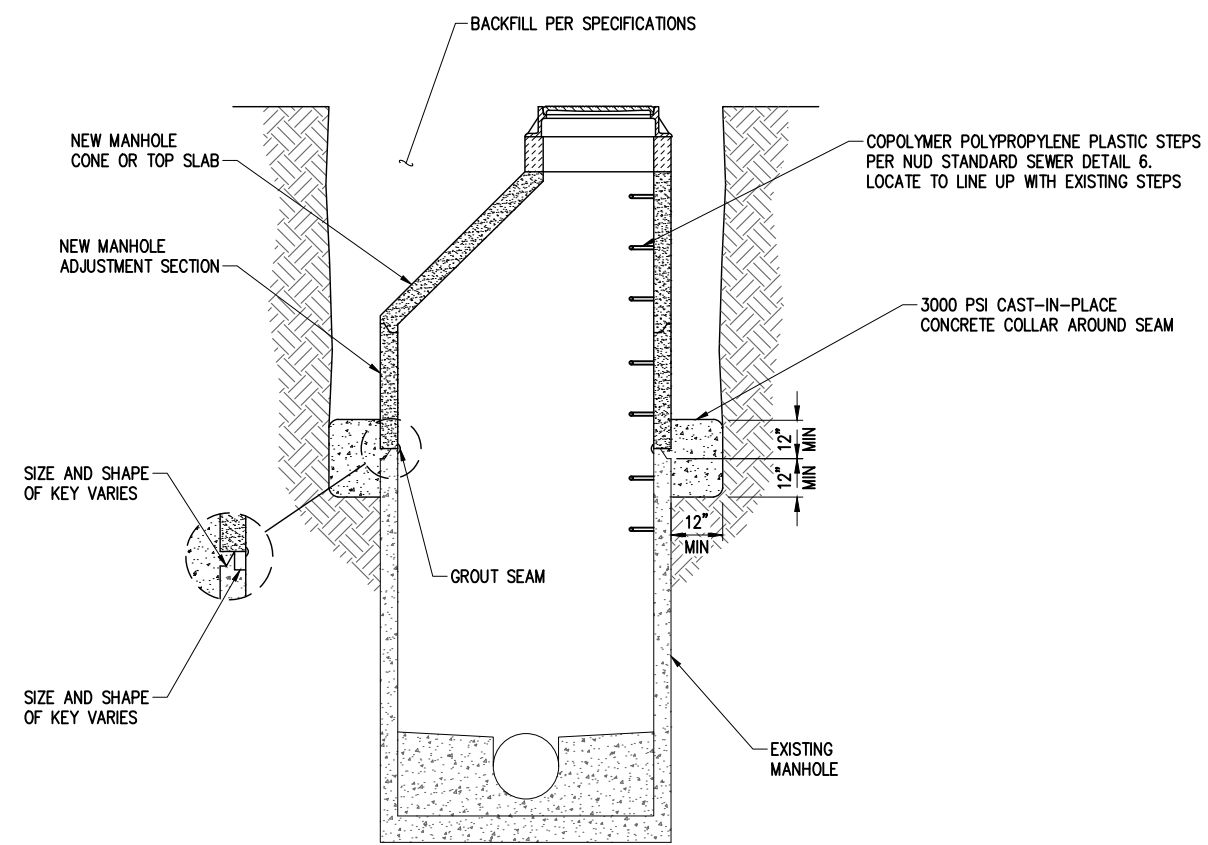


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**JUANITA DRIVE MULTIMODAL,  
INTERSECTION & SAFETY IMPROVEMENTS**  
  
**NUD WATER TABLE**

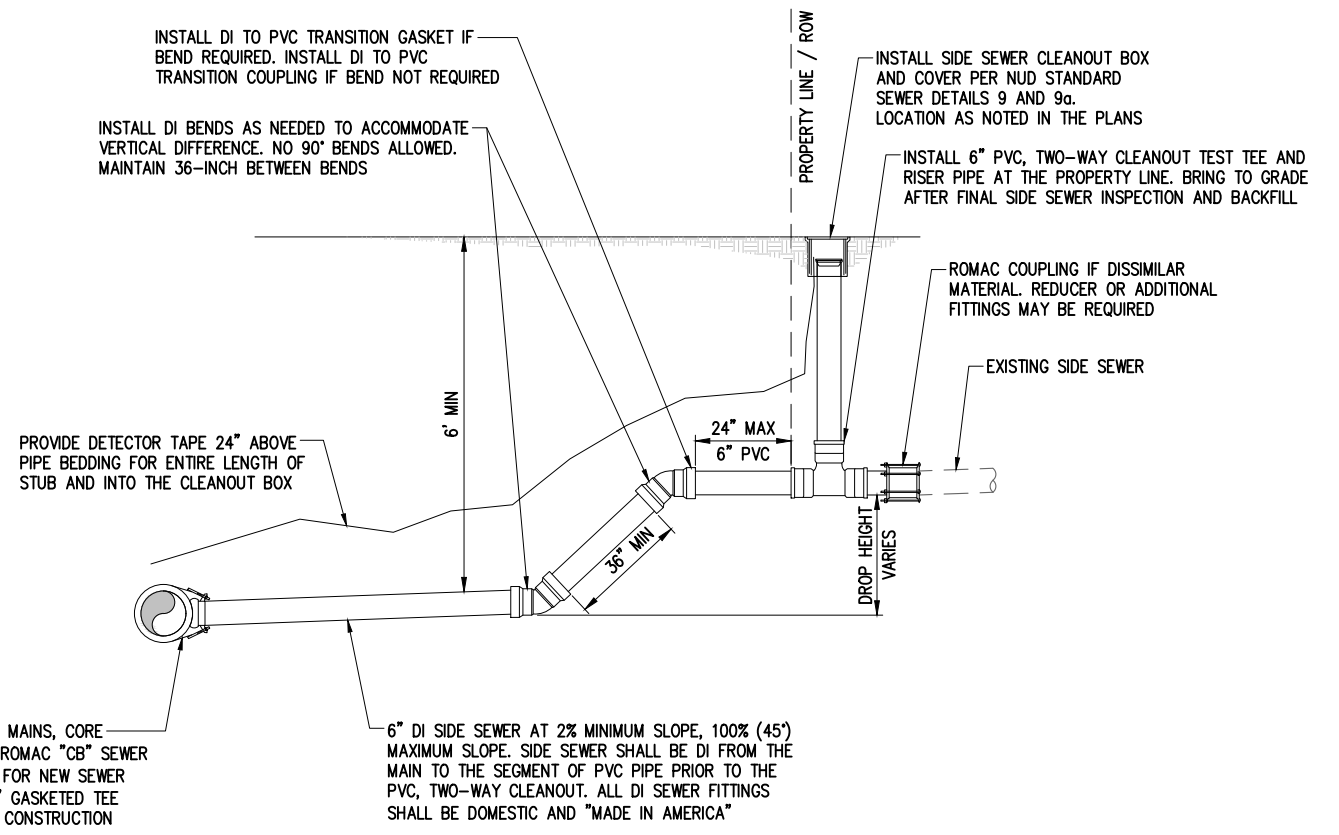
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- NOTES:**
1. MANHOLE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS PER NUD SEWER STD DETAIL 1.
  2. ADJUST MANHOLE TO GRADE BY INSTALLING NEW BARREL SECTION AND CONE/TOP SLAB ON EXISTING MANHOLE BARREL.
  3. WHERE KEY SECTIONS OF NEW AND EXISTING MANHOLES ARE NOT COMPATIBLE, CUT KEY OFF BOTTOM OF NEW SECTION AND PROVIDE A CAST-IN-PLACE CONCRETE COLLAR AROUND MANHOLE PERIMETER. CAST COLLAR WITH 3000 PSI CONCRETE.
  4. UPWARD ADJUSTMENT OF EXISTING MANHOLES MUST BE DONE WITH ALL NEW PARTS, AS NECESSARY, TO ENSURE ONLY ONE INCOMPATIBLE SEAM.
  5. GROUT ALL JOINT INSIDE, OUTSIDE AND IN BETWEEN TO ACHIEVE WATERTIGHT CONSTRUCTION. FINISH SMOOTH THE INSIDE OF STRUCTURE. USE NON-SHRINK GROUT ONLY PER THE SPECIFICATION.

**MANHOLE SECTION ADJUSTMENT DETAIL 1**  
NTS



FOR EXISTING SEWER MAINS, CORE DRILL AND SADDLE (ROMAC "CB" SEWER SADDLE OR EQUAL). FOR NEW SEWER MAINS, INSTALL A 6" GASKETED TEE WITH THE MAIN LINE CONSTRUCTION

6" DI SIDE SEWER AT 2% MINIMUM SLOPE, 100% (45°) MAXIMUM SLOPE. SIDE SEWER SHALL BE DI FROM THE MAIN TO THE SEGMENT OF PVC PIPE PRIOR TO THE PVC, TWO-WAY CLEANOUT. ALL DI SEWER FITTINGS SHALL BE DOMESTIC AND "MADE IN AMERICA"

**REPLACE EXISTING SIDE SEWER DETAIL 2**  
NTS

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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**NUD SEWER DETAILS**

REFERENCE SHEET NO.  
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**GENERAL NOTES**

1. REMOVE ALL SSMH ADJUSTMENT MATERIAL (BRICK, CONC., ETC.) DOWN TO THE TOP OF THE PRECAST STRUCTURE AND INSTALL NEW CONCRETE ADJUSTMENT RINGS (PER NUD SEWER STD DETAIL 1) AND NEW FRAME & COVER (PER NUD SEWER STD DETAIL 5).
2. FOR SSMH WHERE SECTIONS ARE ALSO ADDED/REMOVED, REMOVE CONE AND INSTALL NEW SECTION AND NEW CONE PER NUD SEWER STD DETAIL 1 AND SEWER DETAIL 1, SHEET 157.

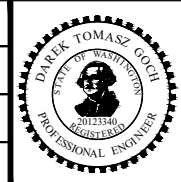
**NUD SANITARY SEWER MANHOLE ADJUSTMENT TABLE**

PLAN ID	MANHOLE ID	SURVEY NO.	SHEET	STATION	EX CHIMNEY HEIGHT (IN)	EG (FT)	FG (FT)	CHNG (IN)	PROP CHIMNEY HEIGHT (IN)	ADD MH SEC'N 1'	ADJ ONLY	FINAL CHIMNEY HEIGHT (IN)	FINAL FINISHED SURFACE	NOTES
1	1648	9076	135	500+19.6, 3.3' RT	18.0	199.38	199.38	0.00	18.0		X	18.0	ASPHALT	
2	1647	9081	135	501+16.9, 3.6' RT	17.0	207.10	207.10	0.00	17.0		X	17.0	ASPHALT	
3	1646	9083	135	501+58.0, 3.0' RT	25.0	210.30	210.30	0.00	25.0		X	25.0	ASPHALT	
4	6374	15258	136	15+92.4, 17.6' RT	12.5	259.02	259.02	0.00	12.5	-	-	24.5	ASPHALT	REMOVE 1' BARREL SECTION, REPLACE CONE, AND ADJUST TO FINISHED GRADE
5	6367	13459	139	25+72.7, 11.0' LT	24.0	303.49	303.49	0.00	24.0		X	24.0	ASPHALT	
6	5629	12447	140	29+79.7, 22.2' RT	6.0	320.08	321.22	13.68	19.7		X	19.7	CEMENT CONCRETE	
7	5622	2507	143	43+65.3, 17.4' RT	8.0	336.80	336.69	-1.32	6.7	X		18.7	ASPHALT	REMOVE 2' BARREL SECTION, REPLACE CONE, AND ADJUST TO FINISHED GRADE
8	5621	2431	143	45+84.4, 20.4' RT	10.0	336.69	337.87	14.16	24.2		X	24.2	ASPHALT	
9	5620	2107	144	49+30.9, 22.2' RT	14.0	333.73	335.06	15.96	30.0	X		18.0	CEMENT CONCRETE	REPLACE CONE AND ADJUST TO FINISHED GRADE
10	5619	1946	145	51+67.7, 23.0' RT	14.0	333.19	334.43	14.88	28.9	X		16.9	ASPHALT	REPLACE TOP SLAB AND ADJUST TO FINISHED GRADE. RE-CHANNEL STRUCTURE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: DG	DRAWN BY: DG
9/2023	9/2023



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**PUGET SOUND WATER UTILITY DISTRICT**  
 WATER SEWER

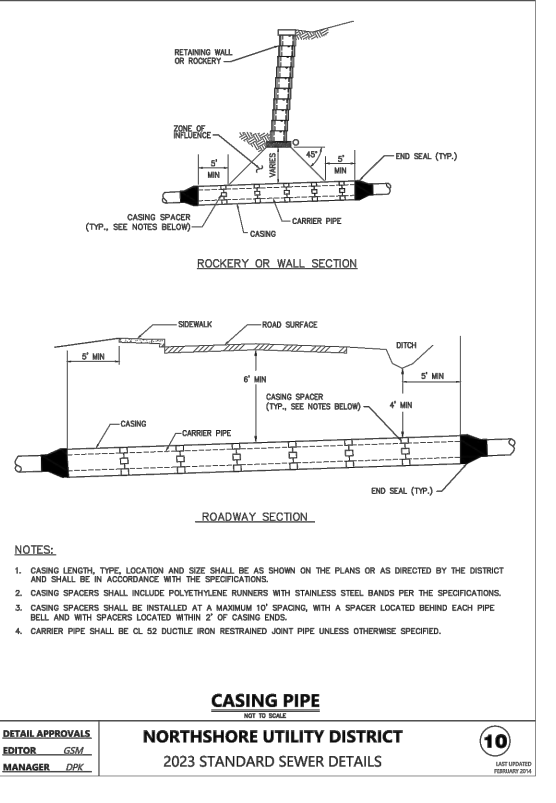
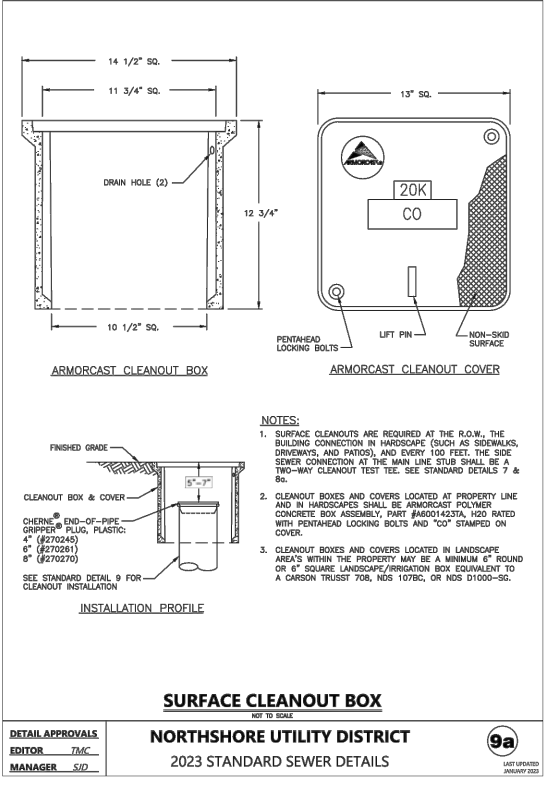
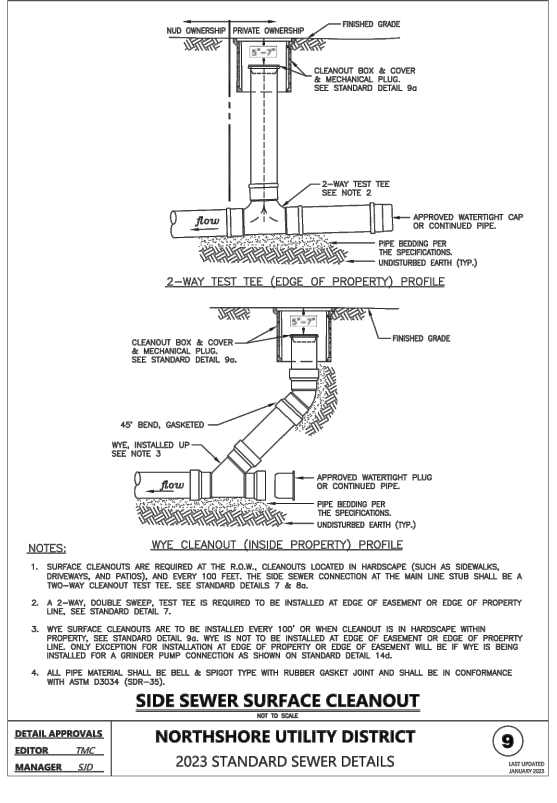
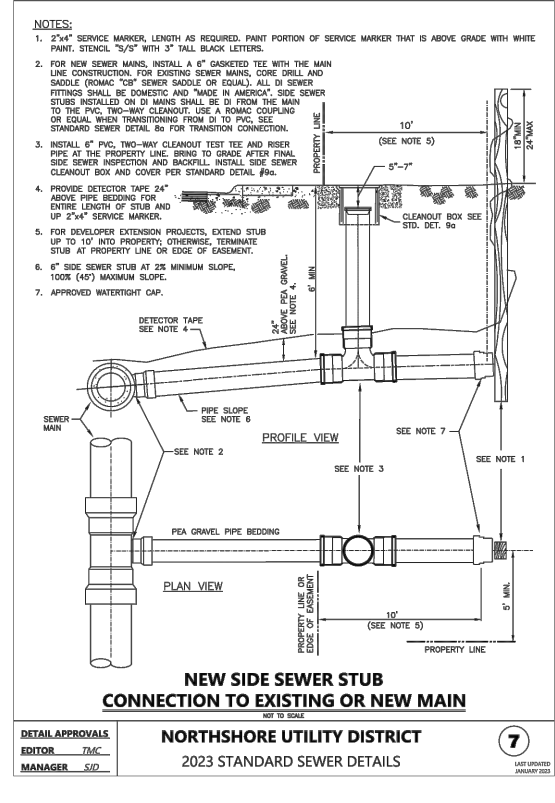
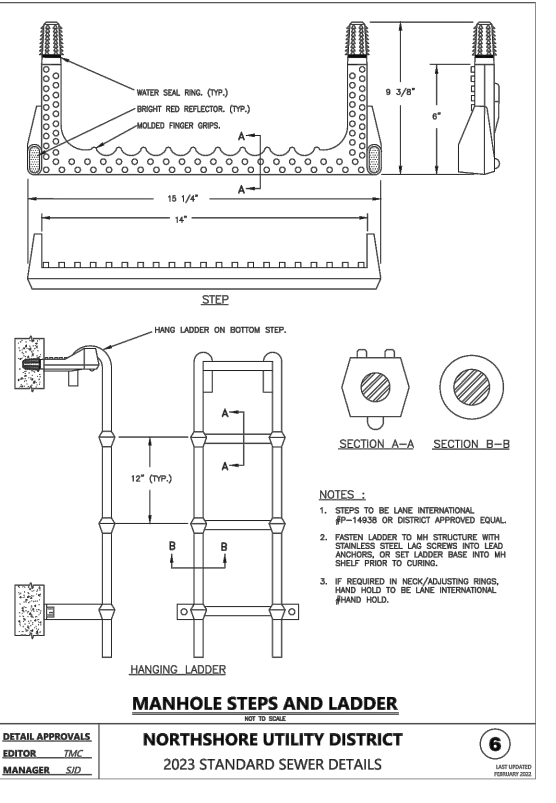
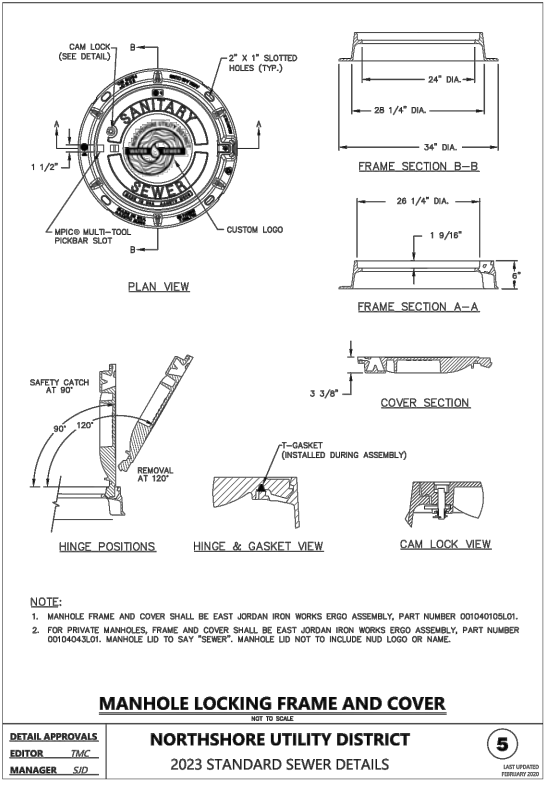
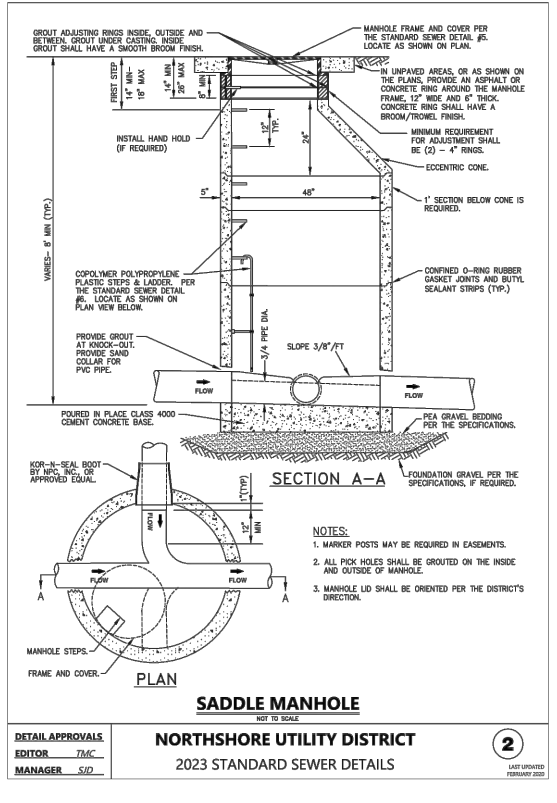
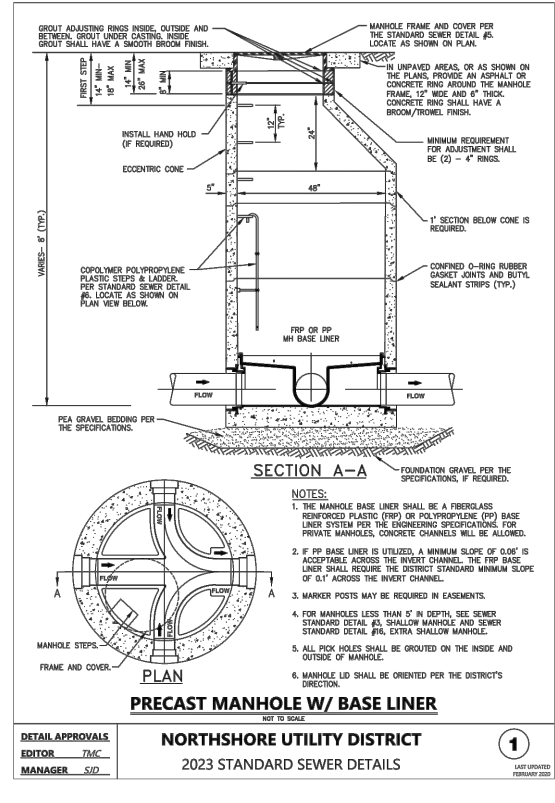
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 DEPARTMENT OF PUBLIC WORKS  
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 (425) 587-3800 www.kirklandwa.gov

**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**

**NUD SEWER TABLE**

REFERENCE SHEET NO.
SHEET 158 OF 161 SHEETS

September 16, 2023 - 8:23 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\NUD STD DET06 - LAYOUT Name: NUD STD DET01



DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: NUD	DRAWN BY: NUD

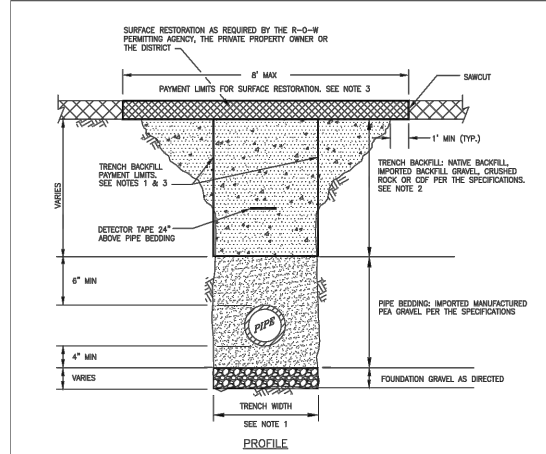


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**JUANITA DRIVE MULTIMODAL, INTERSECTION & SAFETY IMPROVEMENTS**  
**STANDARD DETAILS**

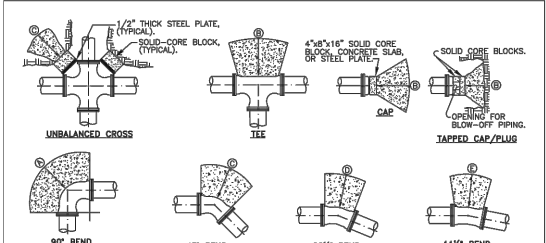
REFERENCE SHEET NO.
SHEET 159 OF 161 SHEETS



- NOTES:**
- TRENCH WIDTH: MINIMUM: PIPE O.D. + 24" (12" EACH SIDE OF PIPE). MAXIMUM: 48" FOR 15" PIPE AND SMALLER. (1 1/2" X 1.5" + 18" FOR 15" PIPE AND LARGER. THE NEAR-LINE PAYMENT LIMITS FOR TRENCH BACKFILL MATERIALS SHALL BE BASED UPON THE MAXIMUM ALLOWABLE TRENCH WIDTH AS SHOWN ABOVE.
  - NATIVE MATERIAL, IF ALLOWED FOR TRENCH BACKFILL, SHALL MEET THE REQUIREMENTS OF SELECT BORROW PER THE SPECIFICATIONS. TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MODIFIED PROCTOR IN THE RIGHT-OF-WAY AND APPROVED EXCAVATIONS AND TO NINETY PERCENT (90%) IN UNIMPROVED EXCAVATION AREAS. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - THE NEAR-LINE LIMITS SHOWN WILL BE USED TO CALCULATE THE MAXIMUM QUANTITY OF TRENCH BACKFILL AND SURFACE RESTORATION MATERIALS ALLOWED. PAYMENT FOR BEDDING GRAVEL WILL BE CONSIDERED INCORPORATED TO PAYMENT MADE FOR PIPE PAYMENT FOR FOUNDATION ROCK WILL BE BASED UPON THE QUANTITIES USED AS DIRECTED BY THE DISTRICT. SEE THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
  - RECYCLED CONCRETE WILL NOT BE ALLOWED AS PIPE BEDDING OR TRENCH BACKFILL FOR DI PIPE.
  - ALL DUCTILE IRON PIPE REQUIRES POLYETHYLENE ENCASMENT. SEE THE DISTRICTS MATERIALS OF CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**TYPICAL TRENCH SECTION & PAYMENT LIMITS**

DETAIL APPROVALS: NORTHSHORE UTILITY DISTRICT  
 EDITOR: TMC  
 MANAGER: SID  
 2023 STANDARD SEWER DETAILS  
 11



- THRUST BLOCK SIZING FOR 250 PSI PRESSURE**
- MIN. BEARING AREA AGAINST UNDISTURBED SOIL IN SQUARE FEET.
- | PIPE SIZE | A      | B      | C      | D      | E     |
|-----------|--------|--------|--------|--------|-------|
| 4"        | 3(2)   | 2(1)   | 2(1)   | 1(0)   | 1(0)  |
| 6"        | 4(4)   | 4(3)   | 3(2)   | 2(1)   | 1(0)  |
| 8"        | 10(7)  | 7(5)   | 5(4)   | 3(2)   | 2(1)  |
| 10"       | 15(10) | 11(7)  | 8(5)   | 4(3)   | 2(2)  |
| 12"       | 22(14) | 15(10) | 12(8)  | 6(4)   | 3(2)  |
| 14"       | 29(20) | 21(14) | 15(11) | 8(5)   | 4(3)  |
| 16"       | 36(26) | 27(18) | 21(14) | 11(7)  | 5(4)  |
| 18"       | 45(32) | 34(23) | 26(18) | 13(8)  | 7(5)  |
| 20"       | 60(40) | 42(28) | 32(22) | 17(11) | 8(5)  |
| 24"       | 85(58) | 61(41) | 47(31) | 24(16) | 12(8) |
- GENERAL NOTES:**
- CONCRETE THRUST BLOCK AREA BASED UPON A SAFE SOIL BEARING LOAD OF 2,000(3,000) LBS. PER SQ. FT. (SAND/SAND GRAVEL).
  - AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES AND SOIL CONDITIONS.
  - CONCRETE BLOCKING SHALL BE CAST-IN-PLACE AND HAVE MINIMUM OF 1/2 SQUARE FOOT CONTACT BEARING AGAINST THE FITTING.
  - BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAPPING UP OR DISMANTLING JOINT. INSTALL 8 MIL. PLASTIC SHEETING BETWEEN FITTING AND BLOCK.
  - CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
  - POLYETHYLENE WRAP NOT SHOWN FOR CLARITY.
  - IN MUCK OR PEAT, PIPE AND FITTING RESTRAINT SHALL BE AS DIRECTED BY THE DISTRICT.

**SHEAR BEARING LOADS IN LBS./SQ. FT.**

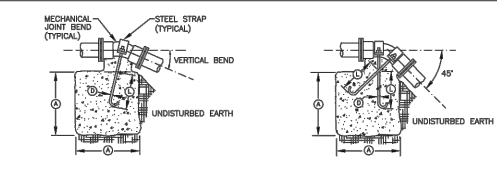
THE SAFE BEARING LOADS GIVEN IN THE FOLLOWING TABLE ARE FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET.

SOIL	SAFE SOIL BEARING LOAD PER SQ. FOOT
MAJOR PEAK, ETC.	1,500
SOFT CLAY	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL	4,000
CEMENTED M/C LAY	4,000
LOOSE SHALE	10,000

- NOTES:**
- CONCRETE BLOCKING AREA IS BASED ON 250 PSI WATER PRESSURE AND 2500 PSI CONCRETE STRENGTH.
  - HARDWARE NOT EMBEDDED IN CONCRETE SHALL BE CLEANED AND COATED WITH COAL TAR EPOXY.
  - IN-LINE VALVE SHALL BE M.J.M.M. AND BE RESTRAINED WITH MEGA-LUGS, OR EQUAL.
  - RESTRAINING HARDWARE SHALL BE PER NUD STANDARD WATER DETAIL #2 FOR VERTICAL BLOCKING.

**CONCRETE BLOCKING - HORIZONTAL**

DETAIL APPROVALS: NORTHSHORE UTILITY DISTRICT  
 EDITOR: TMC  
 MANAGER: DPK  
 2023 STANDARD WATER DETAILS  
 1



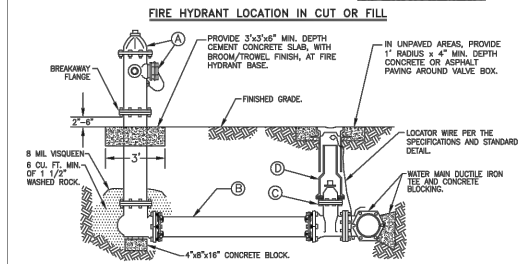
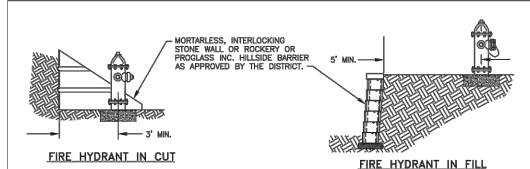
**BLOCKING FOR 11-1/4, 22-1/2 & 30° VERTICAL BENDS**

**VERTICAL BLOCKING**

PIPE SIZE	VERT. BEND	CULT.	A	B	C		
4"	11-1/4	8	2.0'	3/4"	1.5'		
	22-1/2	11	2.2'	3/4"	2.0'		
	30	17	2.6'	3/4"	2.0'		
6"	11-1/4	11	2.5'	3/4"	2.0'		
	22-1/2	25	2.8'	3/4"	2.0'		
	30	41	3.3'	3/4"	2.0'		
8"	11-1/4	16	2.5'	3/4"	2.0'		
	22-1/2	47	3.6'	3/4"	2.0'		
	30	70	4.1'	3/4"	2.5'		
12"	11-1/4	32	3.2'	3/4"	2.0'		
	22-1/2	88	4.5'	7/8"	3.0'		
	30	132	5.1'	7/8"	3.0'		
16"	11-1/4	67	6.1'	7/8"	3.0'		
	22-1/2	184	5.7'	1-1/8"	4.0'		
	30	275	6.5'	1-1/8"	4.0'		
20"	11-1/4	91	4.5'	7/8"	3.0'		
	22-1/2	225	6.1'	1-1/8"	4.0'		
	30	332	6.5'	1-3/8"	4.5'		
24"	11-1/4	128	5.0'	1"	3.5'		
	22-1/2	320	6.8'	1-3/8"	4.5'		
	30	480	7.9'	1-5/8"	5.5'		
			45'	820	9.4'	1-3/8"	4.5'

**CONCRETE BLOCKING - VERTICAL**

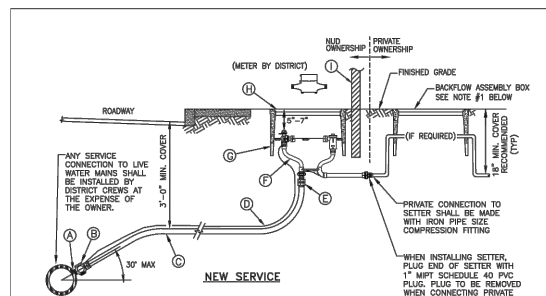
DETAIL APPROVALS: NORTHSHORE UTILITY DISTRICT  
 EDITOR: TMC  
 MANAGER: SID  
 2023 STANDARD WATER DETAILS  
 2



- MATERIALS LIST**
- | ITEM | DESCRIPTION  |
|------|--|
| A    | HYDRANT: SHALL BE MUELLER SUPER CENTURION, AMERICAN DARLING B-62-B, CLOW MEDALLION, MAH 129 OR 129S, OR EAST JORDAN IRON WORKS WATERMASTER S30220 IN CONFORMANCE WITH ANWA STANDARD SPECIFICATION C-302. PROVIDE STAKE ADAPTERS (INTERNAL OR NON-INTERNAL) AS FOLLOWS: 4" FOR ALL LOCATIONS, EXCEPT FOR WITHIN KIRKLAND WHERE 5" IS REQUIRED. HYDRANT SHALL BE FIRE PAINT COATED. TOP COAT SHALL BE TWO BRUSH COATS OF SHERWIN WILLIAMS WHITE INDUSTRIAL ENAMEL #854F01. |
| B    | 6" CL. S2 D.I. PIPE, 3" MIN. AND 50' MAX. WITH RESTRAINED JOINTS.  |
| C    | 6" R.W. GATE VALVE, F.L.M.J.: SHALL BE PER THE SPECIFICATIONS. FOR VALVE OPERATING NUT DEPTHS, SEE STANDARD WATER DETAIL #11.  |
| D    | TWO-PIECE VALVE BOX AND ETHAFORM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11.  |
- NOTES:**
- HYDRANT SHALL BE ORIENTED PER FIRE MARSHALL AND HAVE 3" MIN. CLEARANCE AROUND CENTERLINE.
  - BOLLARDS REQUIRED ONLY ON PRIVATE PROPERTY.
  - IF HYDRANT RUN IS LONGER THAN 50', PIPE SIZE WILL BE DETERMINED BY DISTRICT.
  - HYDRANT EXTENSIONS ARE NOT ALLOWED.

**FIRE HYDRANT ASSEMBLY**

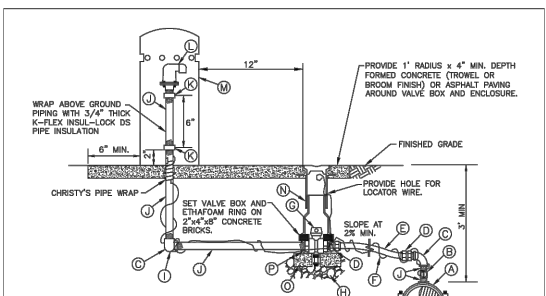
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 EDITOR: TMC  
 MANAGER: SID  
 2023 STANDARD WATER DETAILS  
 3



- MATERIALS LIST**
- | ITEM | DESCRIPTION   |
|------|---|
| A    | DIRECT TAP: DIRECT TAP OF DUCTILE IRON OR CAST IRON LARGER THAN 4" DIAMETER IS REQUIRED FOR 1" SERVICES. SADDLES WILL NOT BE ALLOWED ON DUCTILE IRON OR CAST IRON PIPE LARGER THAN 4" DIAMETER.   |
| B    | SADDLE: ALL SADDLES SHALL BE DUCTILE IRON CASTING WITH CC THREADS. FOR ALL PIPE MATERIAL OTHER THAN PVC PIPE, SADDLES SHALL BE SINGLE STRAP TYPE EQUAL TO FORD F101, ROMAC 101NS, MUELLER DR15, OR DISTRICT APPROVED EQUAL. FOR PVC PIPE, SADDLES SHALL BE DOUBLE STRAP TYPE EQUAL TO MUELLER DR25, FORD F0202, OR ROMAC 202NS.   |
| C    | 1" CORPORATION STOP, COP/PAK JOINT, FORD F101 OR APPROVED EQUAL, WITH STAINLESS STEEL STIFFENER. FORD INSERT-53-72 OR MUELLER 505142. CORPORATION STOP SHALL BE ORIENTED SO THAT THE SHUT OFF IS IN THE 12 O'CLOCK POSITION.  |
| D    | 1 1/4" REHAU MUNIPACK PEX6 3306, COPPER TUBE SIZE (CTS), SDR 9, ANWA C004, PER THE SPECIFICATIONS. PIPE SHALL BE CONTINUOUS FROM CORPORATION STOP TO METER SETTER. ALL PIPE INSTALLED BY OPEN-CUT CONSTRUCTION SHALL BE BEDDED IN SAND 4" OVER AND UNDER. NATIVE MATERIAL WILL NOT BE ALLOWED FOR BEDDING.  |
| E    | TRACER WIRE: BLUE 14 GAUGE COPPER, CONTINUOUS, SOLID CORE, POLYETHYLENE INSULATED PER THE SPECIFICATIONS. CONNECTION AT THE METER SETTER SHALL BE MADE WITH AN ALL STAINLESS STEEL HOSE CLAMP CONNECTION AT THE MAIN LINE. WIRE SHALL BE MADE WITH A SPLIT-BOLT CONNECTOR, STRIP COATING PRIOR TO CONNECTION. TRACER WIRE MAY BE REQUIRED FROM SETTER TO HOUSE. CHECK WITH LOCAL JURISDICTION FOR REQUIREMENTS. |
| F    | 1" ADAPTER, MIPAPACK JOINT, FORD #C86-44-NL WITH STIFFENER, FORD INSERT-55 OR MUELLER 528707.   |
| G    | 1" METER SETTER WITH DUAL CHECK VALVE: FORD V8H74-84W-11-44A-FP-NL, OR MUELLER 308208-BACK.   |
| H    | METER BOX: ARMORCAST, A60194PCX12-NUD (NO "MOUSE HOLES") OR DFW, DFW1324CP4-12-BODY 308208-BACK.  |
| I    | COVER: ARMORCAST, A60194B-110-NUD OR DFW, DFW1324C-MT-SMALL-NS-NH-LD.   |
| J    | 2"x4"x4", MARKER POST. PAINTED WHITE WITH "WATER" STENCILED ONTO IT IN BLACK.   |
- NOTE:**
- IF REQUIRED FOR PREMISE ISOLATION, AN APPROVED BACKFLOW ASSEMBLY SHALL BE INSTALLED IMMEDIATELY BEHIND THE WATER METER PER DISTRICT STANDARD WATER DETAILS #13, #14, and #14b.
  - ALL PEX6 PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.
  - MULTIPLE ADJACENT DIRECT TAPS ON NEW DI MAINS SHALL BE INSTALLED WITH A MINIMUM 18" HORIZONTAL SEPARATION BETWEEN SERVICES AND FROM PIPE BELL.

**1" WATER SERVICE**

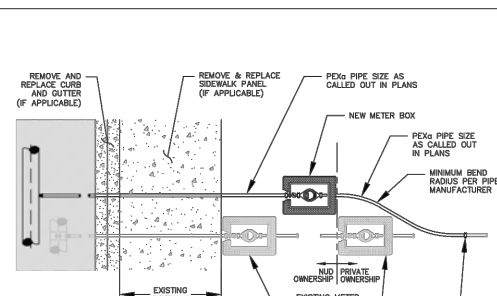
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 EDITOR: TMC  
 MANAGER: SID  
 2023 STANDARD WATER DETAILS  
 4



- MATERIAL LIST:**
- | ITEM | QTY. | DESCRIPTION   |
|------|------|---|
| A    | 1    | SADDLE: ALL SADDLES SHALL BE DUCTILE IRON CASTING WITH IP THREADS. FOR ALL PIPE MATERIAL OTHER THAN PVC PIPE, SADDLES SHALL BE SINGLE STRAP TYPE EQUAL TO FORD F101, ROMAC 101NS, MUELLER DR15, OR DISTRICT APPROVED EQUAL. FOR PVC PIPE, SADDLES SHALL BE DOUBLE STRAP TYPE EQUAL TO MUELLER DR25, FORD F0202, OR ROMAC 202NS.                   |
| B    | 2    | 2" BALL VALVE, FIP/FP, FORD #B11-777-NL OR EQUAL.   |
| C    | 2    | 2" 90° BRASS ELBOW, FIP/FP.   |
| D    | 2    | 2" ADAPTER, MIPAPACK JOINT, FORD #C84-77-NL WITH STIFFENER, FORD INSERT-55 OR MUELLER 528707.   |
| E    | 2    | 2" REHAU MUNIPACK PEX6 3306, COPPER TUBE SIZE (CTS), SDR 9, ANWA C004, PER THE SPECIFICATIONS. LENGTH TO FIT. ALL PEX6 PIPE INSTALLED BY OPEN-CUT CONSTRUCTION SHALL BE BEDDED IN SAND, 4" OVER AND UNDER. IF THE DISTANCE BETWEEN BALL VALVES IS LESS THAN 5', A BRASS NIPPLE, LENGTH TO FIT, WITH BRASS FITTINGS, AS REQUIRED, WILL BE ALLOWED. |
| F    | 1    | TRACER WIRE PER THE SPECIFICATIONS. BLUE 14 GAUGE POLYETHYLENE INSULATED COPPER, CONTINUOUS FROM MAINLINE.  |
| G    | 1    | 2" BALL VALVE, FIP/FP, CAMBROSIO BRASS #203AL-777W WITH 2" OPERATING NUT, FORD #01-57.  |
| H    | 1    | VALVE OPERATING NUT DEPTHS, SEE STANDARD WATER DETAIL #11.  |
| I    | 1    | 1 1/2" WASHED ROCK, PASSING 1 1/2" AND RETAINED ON 1/4" MESH.   |
| J    | 1    | STREET ELBOW, FIP/FP.   |
| K    | 5    | 2" BRASS NIPPLE, LENGTH TO FIT.   |
| L    | 1    | 2" BRASS COUPLING, FIP/FP.  |
| M    | 1    | AIR/VACUUM RELIEF VALVE, A.R.V. #D-040-C-2".  |
| N    | 1    | AIR/VACUUM ENCLOSURE, ARMORCAST P8000203B OR EXDORA 301-07-C3 (GREEN).  |
| O    | 1    | TWO-PIECE, CAST IRON VALVE BOX AND ETHAFORM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11.  |
| P    | 2    | 4"x8"x16" CONCRETE BLOCK.   |
| Q    | 2    | 2"x4"x8" CONCRETE BRICK, ONE ON EITHER SIDE OF THE BALL VALVE TO SUPPORT ETHAFORM RING.   |
- NOTES:**
- THE LOCATION OF THE ASSEMBLY AS SHOWN ON THE PLANS IS APPROXIMATE ONLY. THE FINAL LOCATION SHALL BE AT THE LOCAL HIGH POINT OF THE WATER MAIN AS DIRECTED BY THE DISTRICT IN THE FIELD DURING CONSTRUCTION.
  - 2" BALL VALVE SHALL BE INSTALLED PER THE DIRECTIONAL ARROW STAMPED ON VALVE BODY. THE DRAIN PORT IS TO DISCHARGE INTO THE WASHED ROCK.
  - ALL PEX6 PIPE TO PACK JOINT CONNECTIONS REQUIRE A PIPE STIFFENER.
  - FOR SHALLOW INSTALLS AS DETERMINED BY THE DISTRICT, PROVIDE 3" NOD. BLUE METALLIC WATER DETECTOR TAPE 6"-12" ABOVE PIPE, FROM MAIN TO VALVE BOX.

**2" AIR & VACUUM RELIEF VALVE ASSEMBLY**

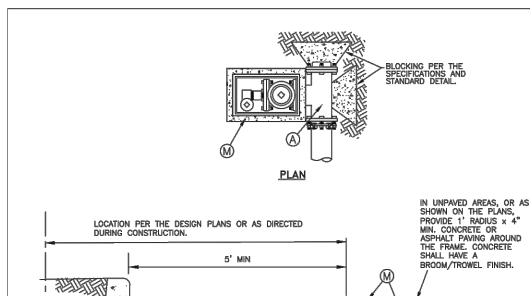
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 EDITOR: TMC  
 MANAGER: SID  
 2023 STANDARD WATER DETAILS  
 8



- LOCATE AND CONNECT TO EXISTING WATER SERVICE LINE. PROVIDE ALL BRASS INSTA-TITE OR COMPRESSION PACK JOINT STYLE FITTINGS. CONFIRM FITTINGS REQUIRED PRIOR TO DISRUPTING EXISTING WATER SERVICE AND COMMENCING RE-CONNECTION CONSTRUCTION. SEE NOTE 4.**
- NOTES:**
- WATER SERVICE PER NUD STANDARD WATER DETAILS, #4 OR #5.
  - NEW METER TO BE RELOCATED TO LOCATION SHOWN ON PLANS.
  - MEASURE AND RECORD EXISTING WATER PRESSURE AT BUILDING PRIOR TO RE-CONNECTION AND AFTER RE-ESTABLISHMENT OF SERVICE. IF PRESSURE READINGS DIFFER BY MORE THAN 5 PSI, THE CONTRACTOR SHALL LOCATE AND CORRECT THE ISSUE AT THE PRIVATE PRV. IF A PRIVATE PRV IS REMOVED DURING NEW SERVICE INSTALLATION, ADD A NEW PRV DIRECTLY SERVING METER BOX.
  - ALL PIPE FITTINGS SHALL BE BRASS, PRIOR TO MAKING THE CONNECTION, THE CONTRACTOR SHALL NOTIFY THE EXISTING SERVICE LINE TO DETERMINE THE LOCATION, SIZE, AND TYPE OF EXISTING PIPE AND TO CONFIRM THE PIPE AND FITTINGS REQUIRED TO MAKE THE CONNECTION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS AND FITTINGS ON-SITE PRIOR TO DISRUPTING WATER SERVICE AND COMMENCING CONSTRUCTION. NO EXISTING WATER SERVICE SHALL BE DISRUPTED FOR MORE THAN TWO HOURS IN ONE DAY.
  - ALL PEX6 PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.
  - FLUSH ALL NEW WATER SERVICE PIPING IN THE PRESENCE OF THE DISTRICT.
  - COORDINATE WITH THE DISTRICT TO SALVAGE THE EXISTING METER AND FOR INSTALLATION OF THE METER INTO THE NEW SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK OF THE METER. ALL PIGTAIL AND PRIVATE WATER SERVICE CONNECTIONS SHALL BE TESTED AT LINE PRESSURE AND SHALL BE VISUALLY INSPECTED BY THE DISTRICT.
  - REMOVE AND REPLACE EXISTING METER BOX AND SETTER.
  - RESTORE THE SITE TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.

**EXISTING WATER SERVICE RE-CONNECTION**

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 2023 STANDARD WATER DETAILS  
 9



- MATERIALS LIST**
- | ITEM | QTY. | DESCRIPTION   |
|------|------|---|
| A    | 1    | WATER MAIN TEE, R.I.J.F.L.  |
| B    | 1    | 4"x8"x16" CONCRETE BLOCK.   |
| C    | 1    | 4" GATE VALVE, FLXL.  |
| D    | 1    | 4" COMPANION FLANGE WITH 2" IPS TAP.  |
| E    | 1    | 2"x4" GALVANIZED IRON PIPE NIPPLE.  |
| F    | 1    | 2" 90° GALVANIZED ELBOW, FIP/FP.  |
| G    | 1    | 2" STREET ELBOW, FIP/FP.  |
| H    | 1    | 2" GALVANIZED IRON PIPE, LENGTH TO FIT.   |
| I    | 1    | 2" BRASS COUPLING, FIP/FP.  |
| J    | 1    | 2" PVC PLUG.  |
| K    | 1    | TWO-PIECE CAST IRON VALVE BOX AND ETHAFORM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11.   |
| L    | 1    | TRACER WIRE: BLUE 14 GAUGE COPPER, CONTINUOUS, SOLID CORE, POLYETHYLENE INSULATED PER THE SPECIFICATIONS.   |
| M    | 1    | ARMORCAST METER BOX, A60194PCX12-NUD (WITH NO "MOUSE HOLES") AND ARMORCAST COVER, A60194B-110-NUD OR DFW METER BOX, DFW1752CP4-12-BODY AND DFW COVER, DFW1752C-4M-BLANK-NS-NH-LD. |
- NOTE:**
- IN UNPAVED AREAS, OR AS SHOWN ON THE PLANS, PROVIDE 1" RADIUS X 4" MIN. CONCRETE OR ASPHALT PAVING AROUND THE FRAME. CONCRETE SHALL HAVE A BROOM/TROWEL FINISH.

**2" BLOW-OFF ASSEMBLY**

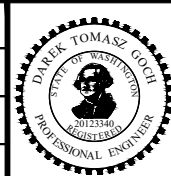
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 2023 STANDARD WATER DETAILS  
 10

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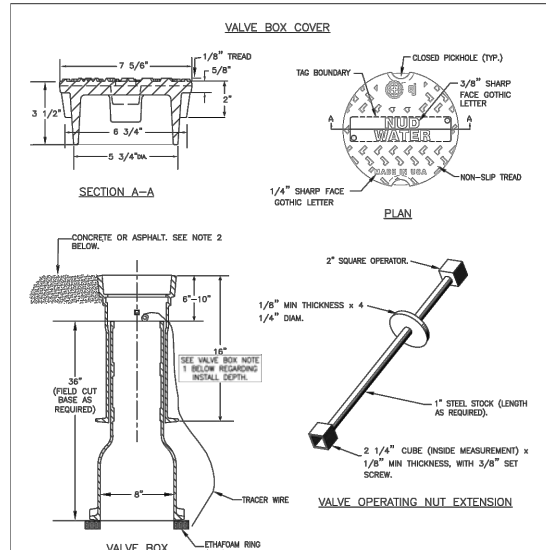
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**STANDARD DETAILS**

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 SHEET 160 OF 161 SHEETS



September 16, 2023 - 8:23 PM - DAREK.GOCH - K:\PROJECTS\KIRKLAND\19065 - JUANITA DRIVE INTERSECTION & SAFETY DESIGN\DRAWINGS\CONTRACT\19065\NUD STD DET06 - Layout Name: NUD STD DET03



**VALVE BOX NOTES:**

- CAST-IRON VALVE BOX AND COVER SHALL BE CAST JORDAN IRON WORKS VALVE BOX COVER 08002020, VALVE BOX TOP 855570160, AND VALVE BOX BOTTOM 855570160 FOR SHALLOW OR DEEP INSTALLS. VALVE BOX TOP SHALL BE DETERMINED BY THE DISTRICT.
- IF VALVE BOX IS IN AN UNPAVED AREA, PROVIDE 1" RADIUS x 4" MINIMUM DEPTH CONCRETE OR ASPHALT PAVING AROUND VALVE BOX. CONCRETE SHALL HAVE A BROOM/TROWEL FINISH.
- INSTALL ETHAFOAM RING BETWEEN BASE OF VALVE BOX AND GATE VALVES OR ON CONCRETE BLOCKS FOR BALL VALVES. ETHAFOAM RING TO BE 2" IN THICKNESS.

**VALVE OPERATING NUT EXTENSION NOTES:**

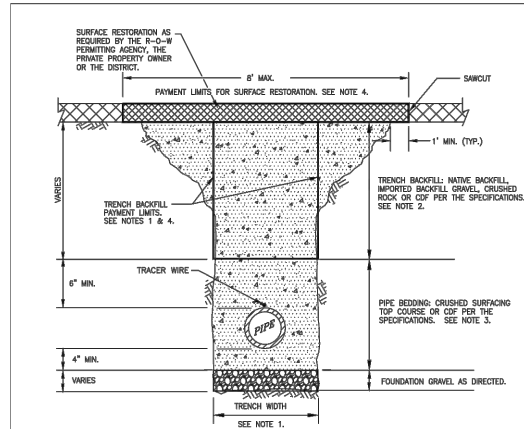
- VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN VALVE NUT IS MORE THAN 5' BELOW FINISHED GRADE.
- LENGTH AS REQUIRED TO PUT OPERATING NUT TWO (2) FEET FROM FINISHED GRADE.
- EXTENSIONS TO BE A MINIMUM OF TWO (2) FEET LONG.
- ONE (1) EXTENSION PER VALVE.
- NO ADJUSTABLE VALVE EXTENSIONS ALLOWED. WHEN AN EXTENSION IS REQUIRED, USE A SOLE PIPE BETWEEN VALVE BOX TOP AND VALVE BOX BOTTOM. LENGTH TO FIT.

**VALVE BOX & OPERATING NUT EXTENSION**  
NOT TO SCALE

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11  
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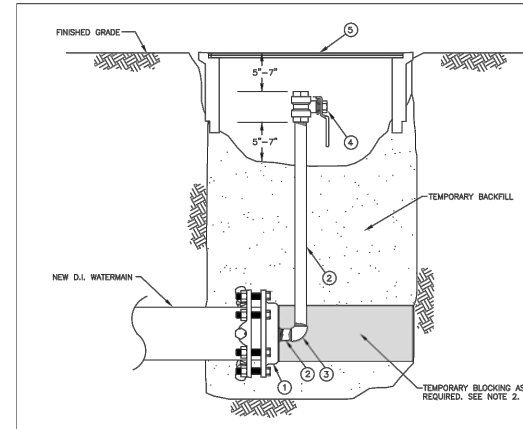


**TYPICAL TRENCH SECTION & PAYMENT LIMITS**  
NOT TO SCALE

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12  
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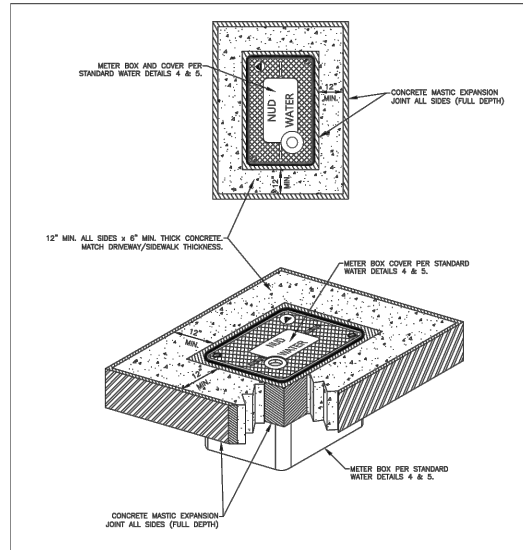


**TEMPORARY BLOW-OFF ASSEMBLY FOR NEW WATERMAIN**  
NOT TO SCALE

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17  
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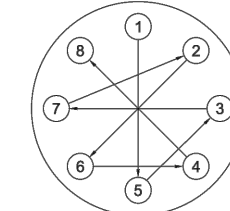


**METER BOX BLOCK OUT FOR DRIVEWAYS AND SIDEWALKS**  
NOT TO SCALE

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18  
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**8 BOLT EXAMPLE**

NO OF BOLTS	NOMINAL FLG SIZE	BOLT NUT TIGHTENING SEQUENCE
8	4", 6", 8"	1, 5, 3, 7, 2, 6, 4, 8
12	10", 12"	1, 7, 4, 10, 2, 8, 5, 11, 3, 9, 6, 12

**NOTES:**

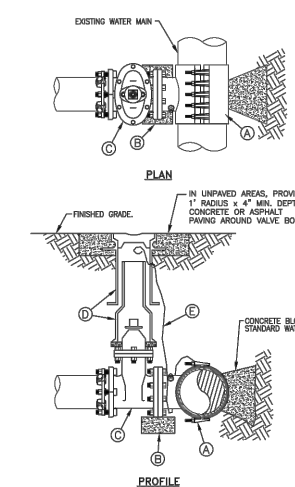
- BOLTS AND NUTS SHALL BE CLEAN AND DRY (UNLUBRICATED).
  - HAND TIGHTEN ALL NUTS.
  - CONSECUTIVELY NUMBER THE BOLTS AROUND THE FLANGE.
- TIGHTEN BOLTS AND NUTS IN THE SEQUENCE GIVEN IN THE TABLE ABOVE.
  - FIRST: TIGHTEN BOLTS AND NUTS TO ONE-THIRD OF MANUFACTURER'S RECOMMENDED TARGET TORQUE.
  - SECOND: TIGHTEN BOLTS AND NUTS TO TWO-THIRDS OF MANUFACTURER'S RECOMMENDED TARGET TORQUE.
  - LAST: TIGHTEN BOLTS AND NUTS TO FULL MANUFACTURER'S RECOMMENDED TARGET TORQUE.
- SEQUENCE GIVEN IS FOR AWWA C110, AND ANSI CLASS 125 AND 150 FLANGES.

**BOLT TIGHTENING SEQUENCE**  
NOT TO SCALE

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19  
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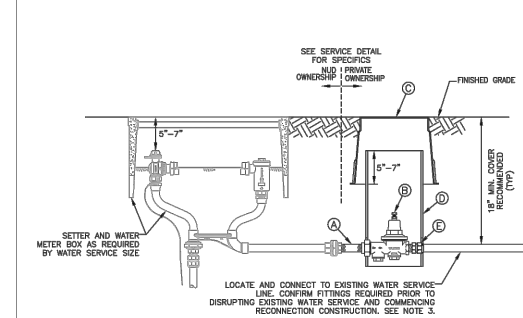


**TAPPING TEE AND GATE VALVE**  
NOT TO SCALE

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20  
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**PRESSURE REDUCING VALVE (PRV)**  
NOT TO SCALE

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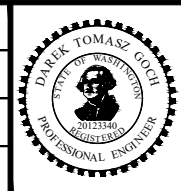
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21  
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