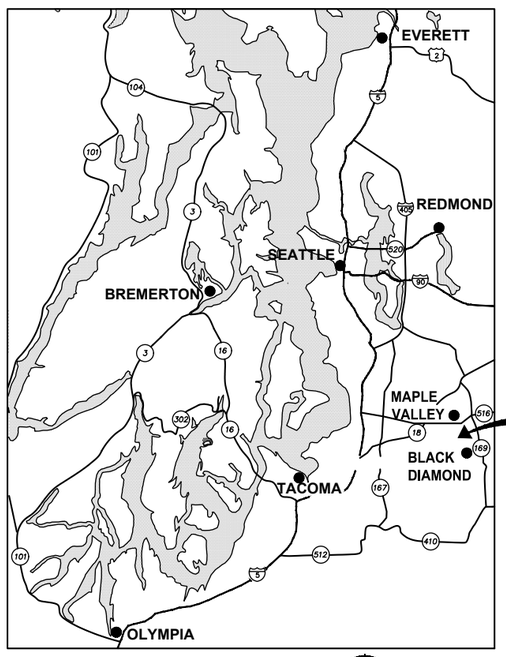
GREEN TO CEDAR RIVERS TRAIL

SOUTH INTERIM SEGMENT A

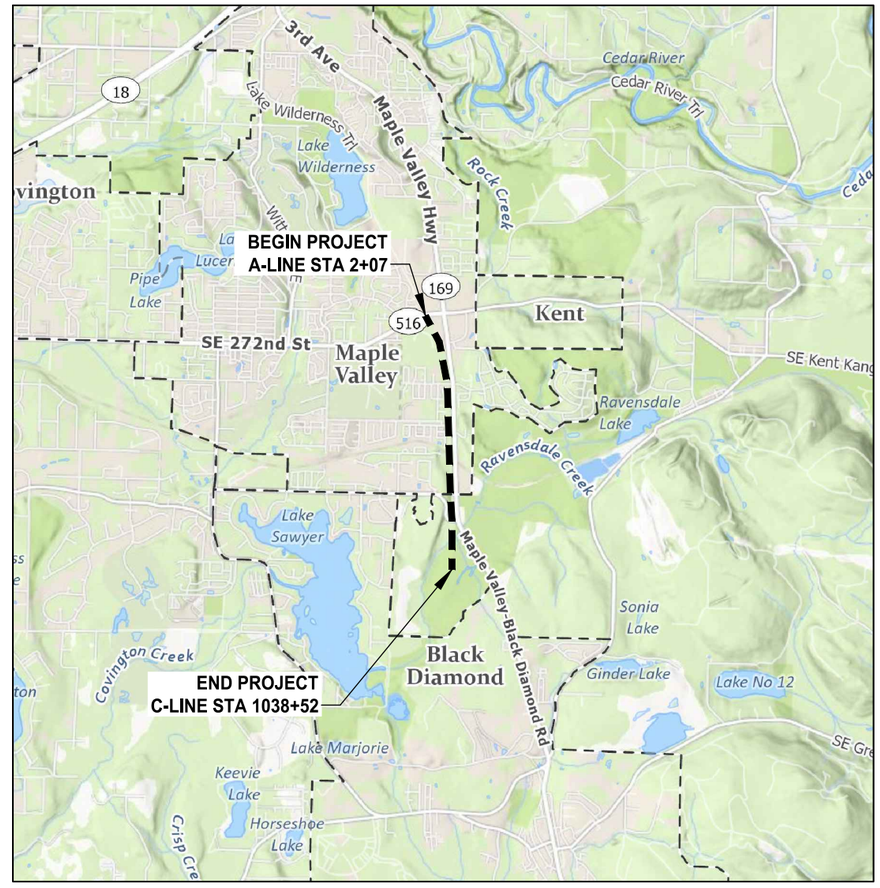
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

KING COUNTY, WASHINGTON



PROJECT SITE WITHIN CITY LIMITS OF MAPLE VALLEY AND BLACK DIAMOND, WA AND UNINCORPORATED KING COUNTY

LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

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811
KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATTHESON
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Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

COVER AND INDEX

SHEET **1** OF **71** SHEETS

G1

LEGEND

DESCRIPTION	PROPOSED	EXISTING
ROW LINE		
PROPERTY LINE		
EASEMENT LINE		
TRAIL ALIGNMENT IN VIEWPORTS		
ORDINARY HIGH WATER MARK		
DITCH LINE		
STORM DRAIN LINE		SD
CULVERT		
QUARRY SPALL		
CATCH BASIN, TYPE 1		
CATCH BASIN, TYPE 2		
CONTOURS MAJOR	10	10
CONTOURS MINOR	2	2
FILL LINE	F	
CUT LINE	C	
ASPHALT EDGE		
CONCRETE LINE		
EDGE OF GRAVEL		
SIDEWALK		
WETLAND		
WETLAND BUFFER		
STREAM		
STREAM BUFFER		
CURB AND GUTTER LINE		
CROSSWALK LINE		
RETAINING WALL		
CEMENT CONCRETE MEDIAN		
LANDSCAPING		
ROCK WALL		
INFILTRATION TRENCH		
UNDERDRAIN TRENCH		
BOULDER/ECOLOGY BLOCK		
CHAIN LINK FENCE		
TWO RAIL FENCE		
GUARDRAIL		

DESCRIPTION	PROPOSED	EXISTING
SWING GATE		
TRAFFIC SIGNAL POLE W/ LAMP		
TRAFFIC SIGNAL POLE		
TRAFFIC CONTROL LOOP (SQ)		TL
TRAFFIC CONTROL CABINET		
SIGNAL CONTROLLER CABINET		
PEDESTRIAN POLE		
MONITORING WELL		
SURFACE POST		
SIGN		
LUMINAIRE		
TRAFFIC SIGNAL		
WASTE RECEPTACLE W/ MUTT MITT		

ABBREVIATIONS

AVE	AVENUE
BFR	BUFFER
BNSF	BURLINGTON NORTHERN SANTA FE
BVC	BEGIN VERTICAL CURVE
℄	CENTERLINE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DA	DEVELOPER AGREEMENT
DWG	DRAWING
E	EAST
EL	ELEVATION
EVC	END VERTICAL CURVE
EXIST	EXISTING
G2CR	GREEN TO CEDAR RIVERS
HMA	HOT MIX ASPHALT
IN	INCH
LF	LINEAR FOOT/LINEAR FEET
MAX	MAXIMUM
MPD	MASTER PLANNED DEVELOPMENT
N	NORTH
NE	NORTHEAST
NO	NUMBER
OHWM	ORDINARY HIGH WATER MARK
PVI	POINT OF VERTICAL INTERSECTION
RRFB	RECTANGULAR RAPID FLASHING BEACON
R	RADIUS
RD	ROAD
SF	SQUARE FEET
R/W	RIGHT OF WAY
S	SOUTH
SE	SOUTHEAST
SECT	SECTION
SHLDR	SHOULDER
SR	STATE ROUTE
ST	STREET
STA	STATION
SQ	SQUARE
STD	STANDARD
TYP	TYPICAL
VC	VERTICAL CURVE
W	WEST
W/	WITH
WA	WASHINGTON
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
RRFB	RECTANGULAR RAPID FLASH BEACON
PPB	PEDESTRIAN PUSH BUTTON

811
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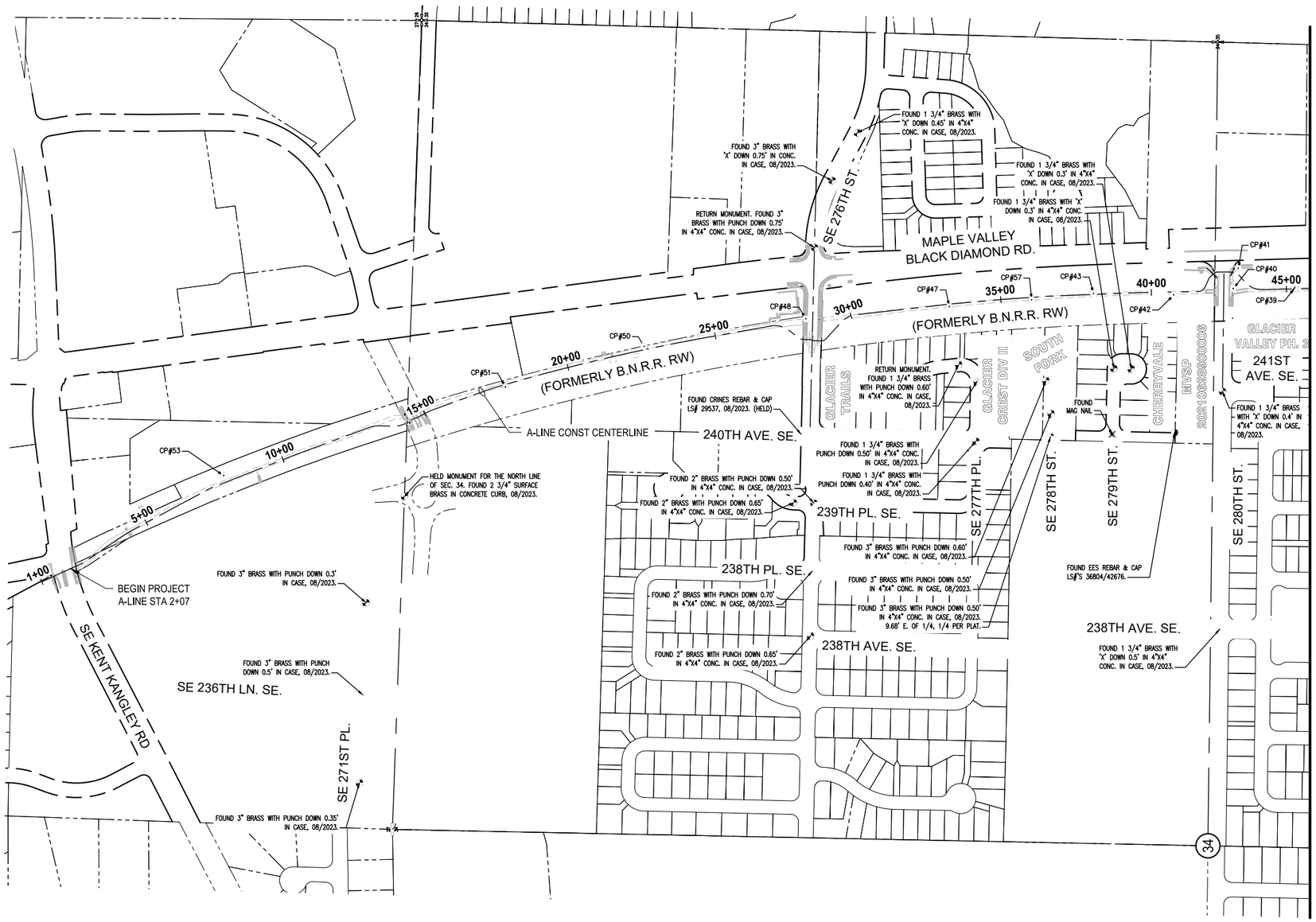
LEGEND AND ABBREVIATIONS

SHEET **2** OF **71** SHEETS

G2



SCALE IN FEET

0 200 400

HORIZONTAL DATUM (WSRN):

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(11), WASHINGTON PLANE NORTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENTS PUBLISHED BY WSDOT:

POINT DESIGNATION: GP-17169-208 (PMX #100152)
NORTHING: 125811.097
EASTING: 1347081.889

POINT DESIGNATION: GP-17169-306 (PMX #100151)
NORTHING: 128858.305
EASTING: 1346490.772

VERTICAL DATUM (WSRN):

VERTICAL DATUM FOR THIS SURVEY IS NAVD 88 BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENT PUBLISHED BY WSDOT:

POINT DESIGNATION: GP17169-306
ELEV. 588.365

SURVEY NOTES

1. THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY BETWEEN FEBRUARY, MARCH, AND SEPTEMBER 2023.
2. CONVENTIONAL AND GPS SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE.
3. THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090 PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND.

LEGEND

- FOUND CASED/SURFACE MONUMENT (AS NOTED)
- FOUND MAG NAIL
- SET PK
- SET REBAR WITH CAP
- SECTION CORNER
- QUARTER CORNER (N/S)
- QUARTER CORNER (E/W)
- CENTER OF SECTION
- SECTION LINE
- QUARTER SECTION LINE
- 1/16 SECTION LINE
- RIGHT OF WAY LINE
- PROPERTY BOUNDARY
- PROJECT CENTERLINE
- PARCEL LINE

SURVEY CONTROL POINT TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
39	578.49	129958.30	1346358.02	SET R/CAP TNLS CONTROL
47	572.65	131104.28	1346294.85	SET R/CAP TNLS CONTROL
40	574.45	130162.05	1346354.77	SET R/CAP TNLS CONTROL
48	570.20	131580.12	1346254.97	SET R/CAP TNLS CONTROL
41	577.45	130145.25	1346421.82	SET R/CAP TNLS CONTROL
42	575.78	130359.60	1346334.06	SET R/CAP TNLS CONTROL
50	571.41	132117.15	1346163.13	SET R/CAP TNLS CONTROL
43	575.08	130625.85	1346338.55	SET R/CAP TNLS CONTROL
51	573.91	132576.50	1346028.83	SET R/CAP TNLS CONTROL
53	573.51	133511.35	1345734.53	SET R/CAP TNLS CONTROL
57	573.55	130830.92	1346317.31	SET R/CAP TNLS CONTROL

811

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REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

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Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
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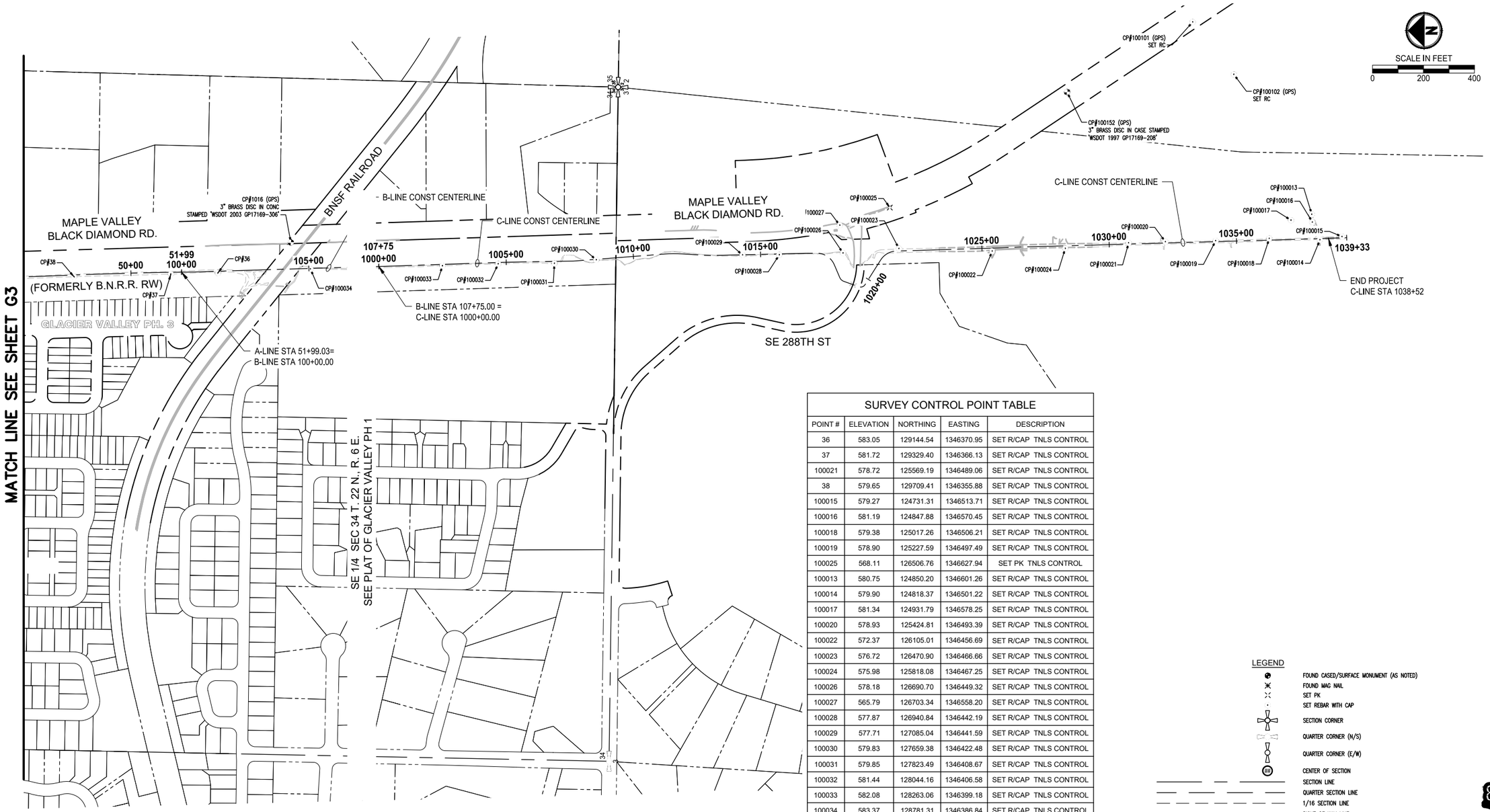
SURVEY CONTROL PLAN

SHEET **3** OF **71** SHEETS

G3



SURVEY CONTROL POINT TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
36	583.05	129144.54	1346370.95	SET R/CAP TNLS CONTROL
37	581.72	129329.40	1346366.13	SET R/CAP TNLS CONTROL
100021	578.72	125569.19	1346489.06	SET R/CAP TNLS CONTROL
38	579.65	129709.41	1346355.88	SET R/CAP TNLS CONTROL
100015	579.27	124731.31	1346513.71	SET R/CAP TNLS CONTROL
100016	581.19	124847.88	1346570.45	SET R/CAP TNLS CONTROL
100018	579.38	125017.26	1346506.21	SET R/CAP TNLS CONTROL
100019	578.90	125227.59	1346497.49	SET R/CAP TNLS CONTROL
100025	568.11	126506.76	1346627.94	SET PK TNLS CONTROL
100013	580.75	124850.20	1346601.26	SET R/CAP TNLS CONTROL
100014	579.90	124818.37	1346501.22	SET R/CAP TNLS CONTROL
100017	581.34	124931.79	1346578.25	SET R/CAP TNLS CONTROL
100020	578.93	125424.81	1346493.39	SET R/CAP TNLS CONTROL
100022	572.37	126105.01	1346456.69	SET R/CAP TNLS CONTROL
100023	576.72	126470.90	1346466.66	SET R/CAP TNLS CONTROL
100024	575.98	125818.08	1346467.25	SET R/CAP TNLS CONTROL
100026	578.18	126690.70	1346449.32	SET R/CAP TNLS CONTROL
100027	565.79	126703.34	1346558.20	SET R/CAP TNLS CONTROL
100028	577.87	126940.84	1346442.19	SET R/CAP TNLS CONTROL
100029	577.71	127085.04	1346441.59	SET R/CAP TNLS CONTROL
100030	579.83	127659.38	1346422.48	SET R/CAP TNLS CONTROL
100031	579.85	127823.49	1346408.67	SET R/CAP TNLS CONTROL
100032	581.44	128044.16	1346406.58	SET R/CAP TNLS CONTROL
100033	582.08	128263.06	1346399.18	SET R/CAP TNLS CONTROL
100034	583.37	128781.31	1346386.84	SET R/CAP TNLS CONTROL
100101	586.06	125318.10	1347356.25	SET R/CAP TNLS CONTROL
100102	587.56	125156.23	1347150.55	SET R/CAP TNLS CONTROL

LEGEND

- FOUND CASED/SURFACE MONUMENT (AS NOTED)
- FOUND MAG NAIL
- SET PK
- SET REBAR WITH CAP
- SECTION CORNER
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Christie True, Director

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SOUTH INTERIM SEGMENT A
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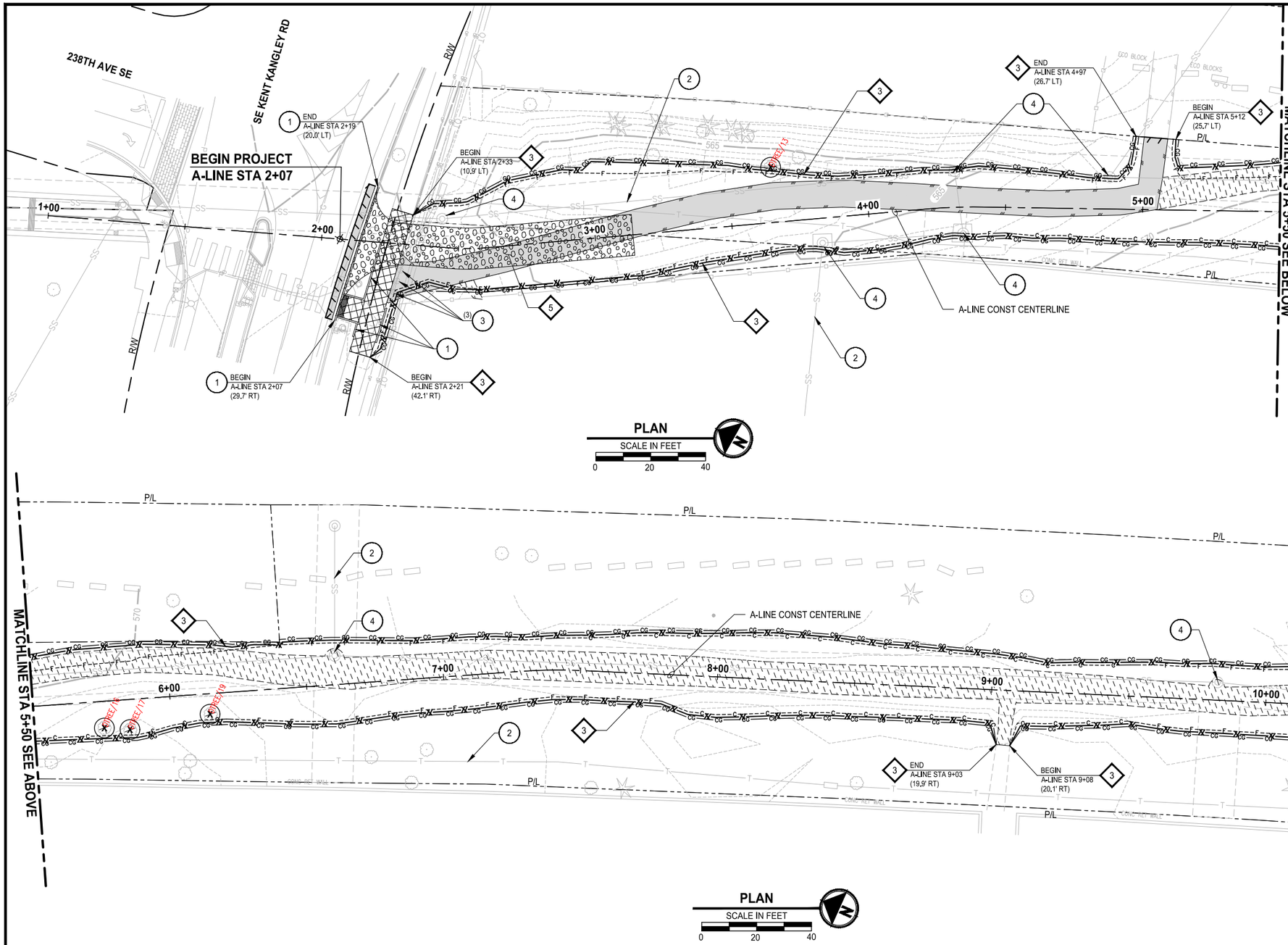
SURVEY CONTROL PLAN

SHEET **4** OF **71** SHEETS

G4



SITE PREPARATION NOTES:

1. REMOVE CURB OR CURB AND GUTTER. SEE C SHEETS FOR NEW LOCATION.
2. PROTECT EXISTING UTILITY.
3. REMOVE BOLLARD.
4. ADJUST MANHOLE TO FINISHED GRADE. CONCRETE COLLAR TO BE DETERMINED AT NEXT SUBMITTAL.
5. REMOVE PAVEMENT MARKING. SEE PS SHEETS FOR NEW LOCATION.
6. REMOVE BRICK MEDIAN.
7. ADJUST CATCH BASIN TO FINISHED GRADE.
8. REMOVE DRAINAGE STRUCTURE. SEE C SHEETS FOR NEW LOCATION.
9. REMOVE DRAINAGE PIPE. SEE C SHEETS FOR NEW LOCATION.
10. RELOCATE FIRE HYDRANT ASSEMBLY. NEW LOCATION TO BE PROVIDED AT NEXT SUBMITTAL.
11. PLUG EXISTING DRAINAGE PIPE.
12. RELOCATE FRANCHISE UTILITY BOX / COMM. VAULT / PEDESTAL. COORDINATE WITH SERVICE PROVIDER.
13. UNDERGROUND POWER TO BE RELOCATED BY OTHERS (SEE E SHEETS).

TESC NOTES:

1. HIGH VISIBILITY FENCE, PER WSDOT STD DETAIL 1-10.10-01 AND SEE APPENDIX B OF SPECS. INSTALL FENCE AT C&G LIMITS.
2. SILT FENCE, PER 2021 KCSWDM SECTION D.2.1.3.1. SEE SPECIAL PROVISIONS SECTION 8-01. INSTALL FENCE AT C&G LIMITS. THE LINES SHOWN ARE OFFSET FOR PLAN CLARITY PURPOSES.
3. HIGH VISIBILITY SILT FENCE WITH BACK SUPPORT, PER WSDOT STD DETAIL I-30.16-01 AND SEE APPENDIX B OF SPECS. INSTALL FENCE AT C&G LIMITS. THE LINES SHOWN ARE OFFSET FOR PLAN CLARITY PURPOSES.
4. STORM DRAIN INLET PROTECTION, PER 2021 KCSWDM SECTION D.2.1.5.3 FIGURE D.2.1.5.F CATCH BASIN INSERT (SEE C SHEETS FOR STORM DRAIN LOCATIONS). SEE SPECIAL PROVISIONS SECTION 8-01.
5. STABILIZED CONSTRUCTION ENTRANCE, PER 2021 KCSWDM SECTION D.2.1.4.1. SEE SPECIAL PROVISIONS SECTION 8-01.

LEGEND:

- REMOVE ASPHALT CONC. PAVEMENT
- REMOVE CEMENT CONC. PAVEMENT
- REMOVE EXISTING GRAVEL SURFACE
- HVF — HIGH VISIBILITY FENCE
- SILT FENCE
- HIGH VISIBILITY SILT FENCE
- SAWCUT
- INLET PROTECTION FOR EXISTING STRUCTURE
- INLET PROTECTION FOR PROPOSED STRUCTURE
- X P — REMOVE TREE

GENERAL NOTES:

1. INSTALL FENCING AT CG LIMITS WHERE SHOWN IN THE PLANS. FENCING IS SHOWN AS OFFSET ON THE PLANS FOR CLARITY ONLY.
2. SEE PS SHEETS FOR REMOVAL, RELOCATION, AND INSTALLATION OF ALL SIGNS.
3. SEE E SHEETS FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF SIGNAL / ILLUMINATION EQUIPMENT.
4. TREE REMOVAL WITHIN C/G LIMITS SHALL HAVE STUMP AND ROOT BALL REMOVED IN ITS ENTIRETY. TREE REMOVAL OUTSIDE OF C/G LIMITS SHALL BE CUT WITHIN 1' OF EXISTING GRADE AND SHALL BE TREATED AT THE STUMP WITH AN HERBICIDE; SEE SPECIAL PROVISIONS SECTION 8-02.
5. ALL ASPHALT SAWCUTS ARE 2' FROM CONCRETE JOINT (UNLESS OTHERWISE NOTED).

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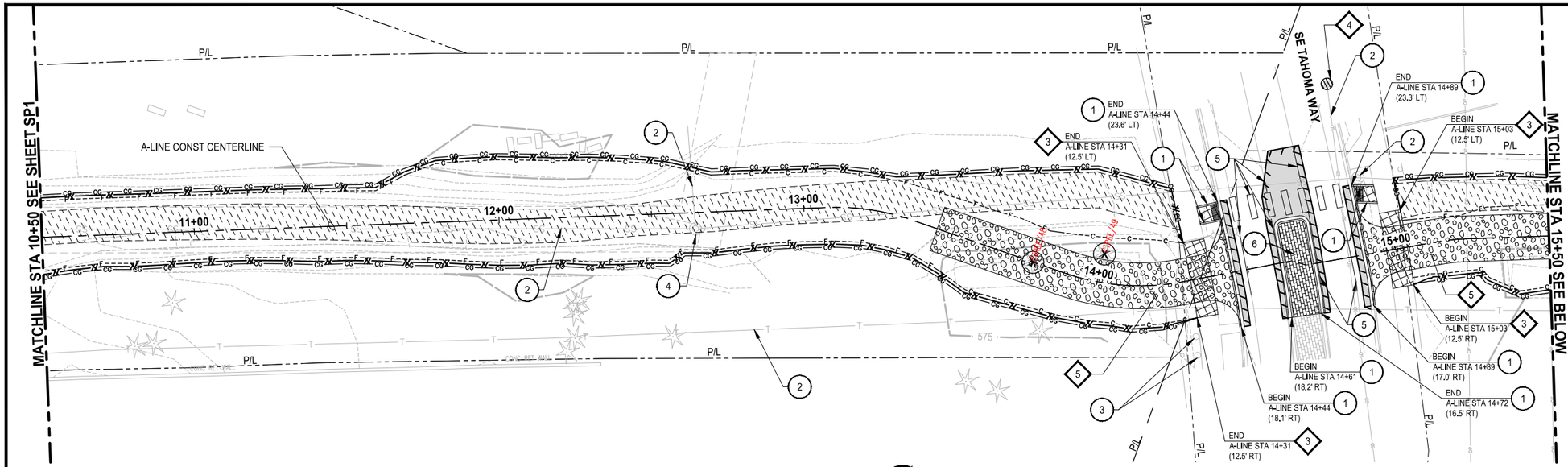
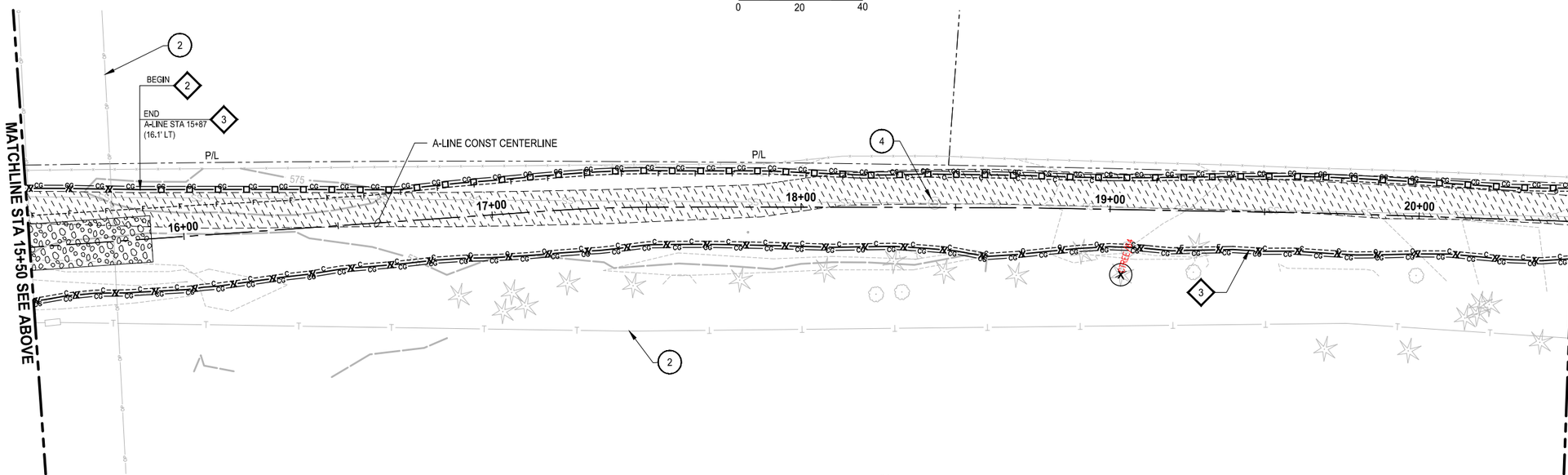
SITE PREPARATION PLAN

SHEET **5** OF **71** SHEETS

SP1



PLAN
SCALE IN FEET
0 20 40



PLAN
SCALE IN FEET
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DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON — STATE OF WASHINGTON — 23005920 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

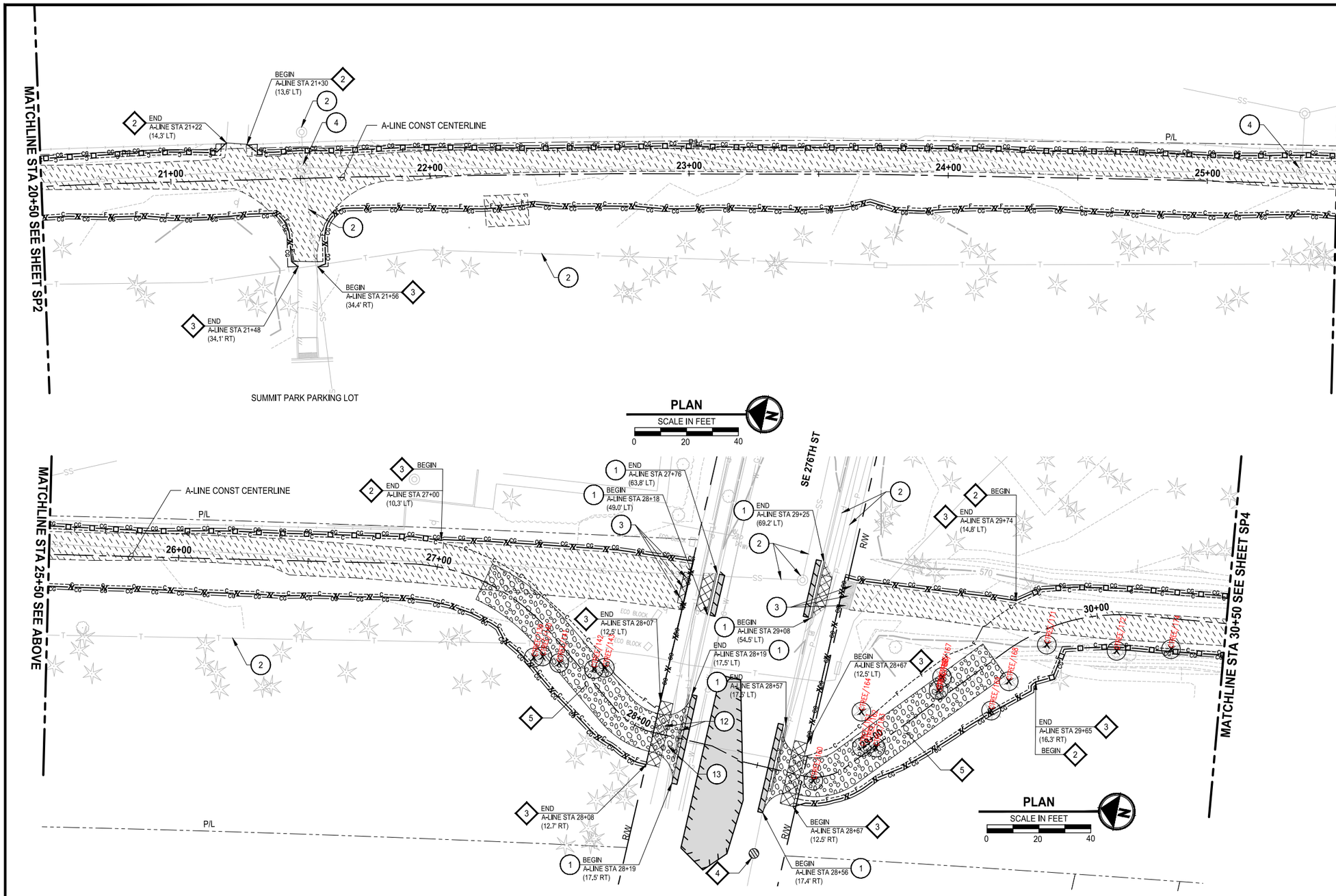
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

SITE PREPARATION PLAN

SHEET **6** OF **71** SHEETS

SP2



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60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

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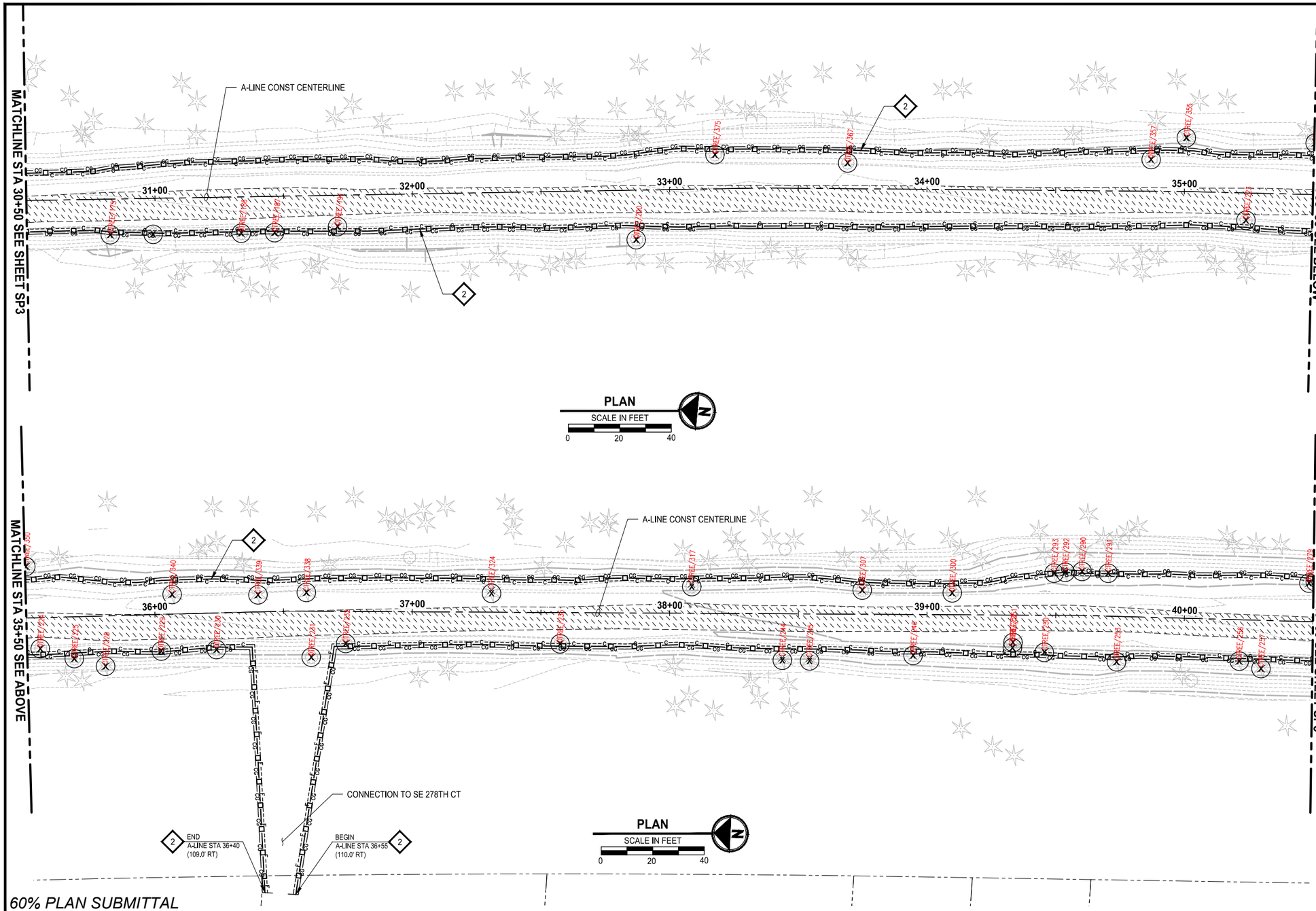
SITE PREPARATION PLAN



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TREVOR ALLAN MATTERSON
STATE OF WASHINGTON
52005920
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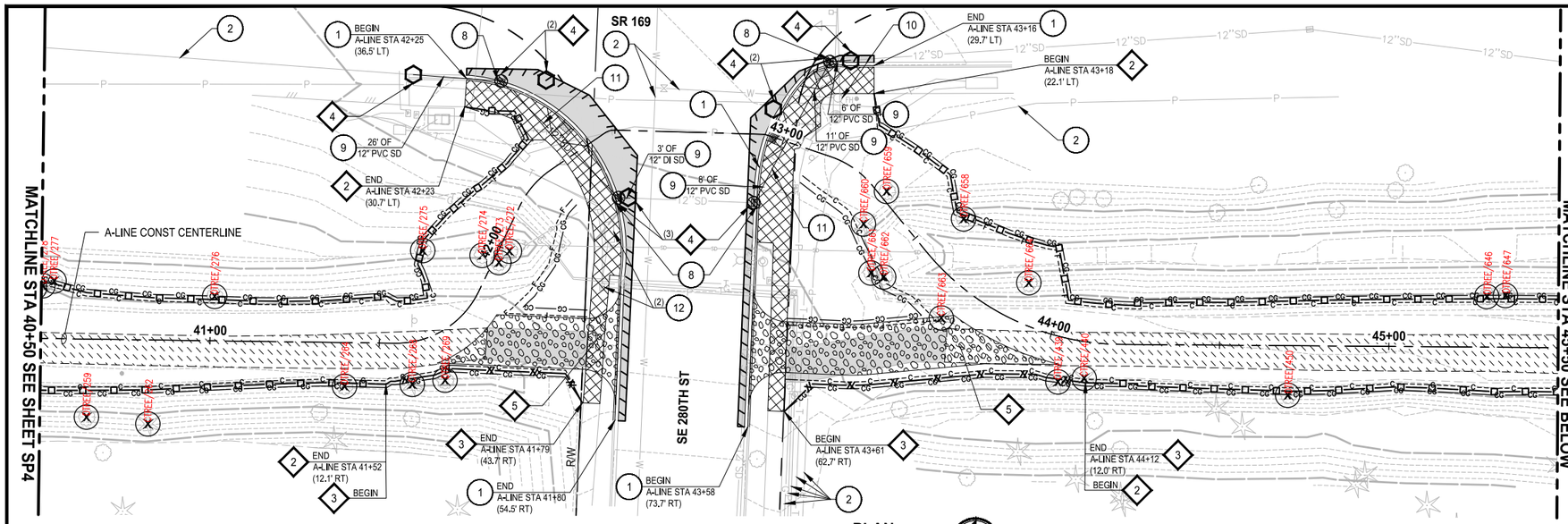
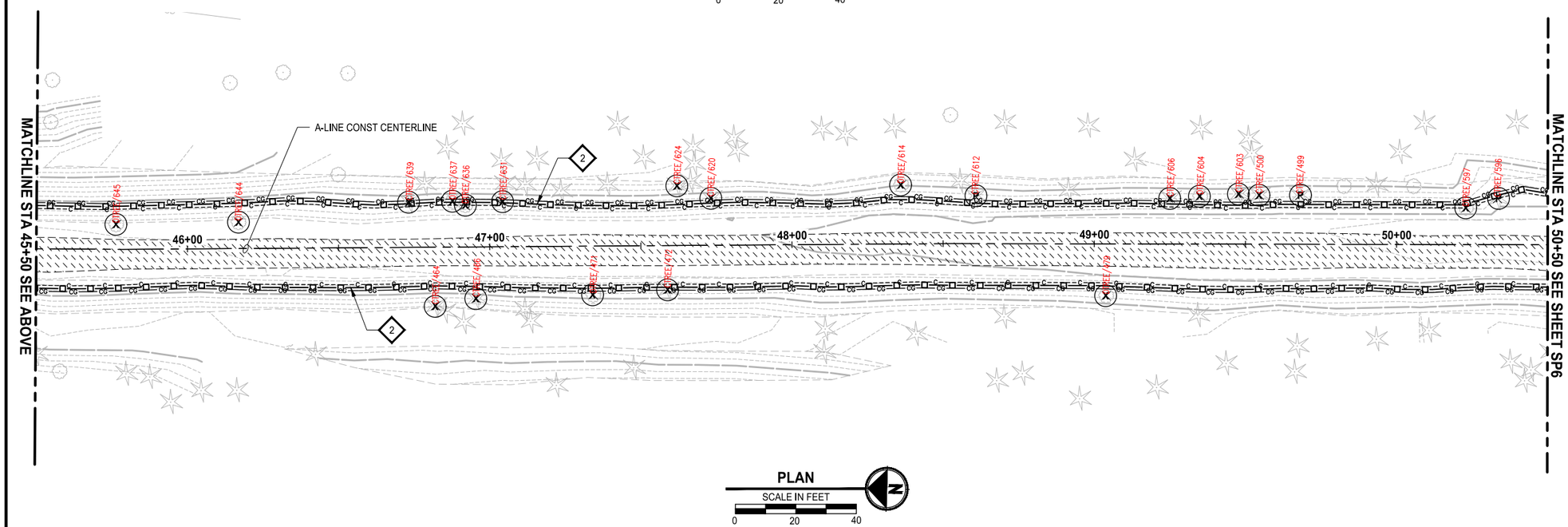
SITE PREPARATION PLAN

SHEET **8** OF **71** SHEETS

SP4





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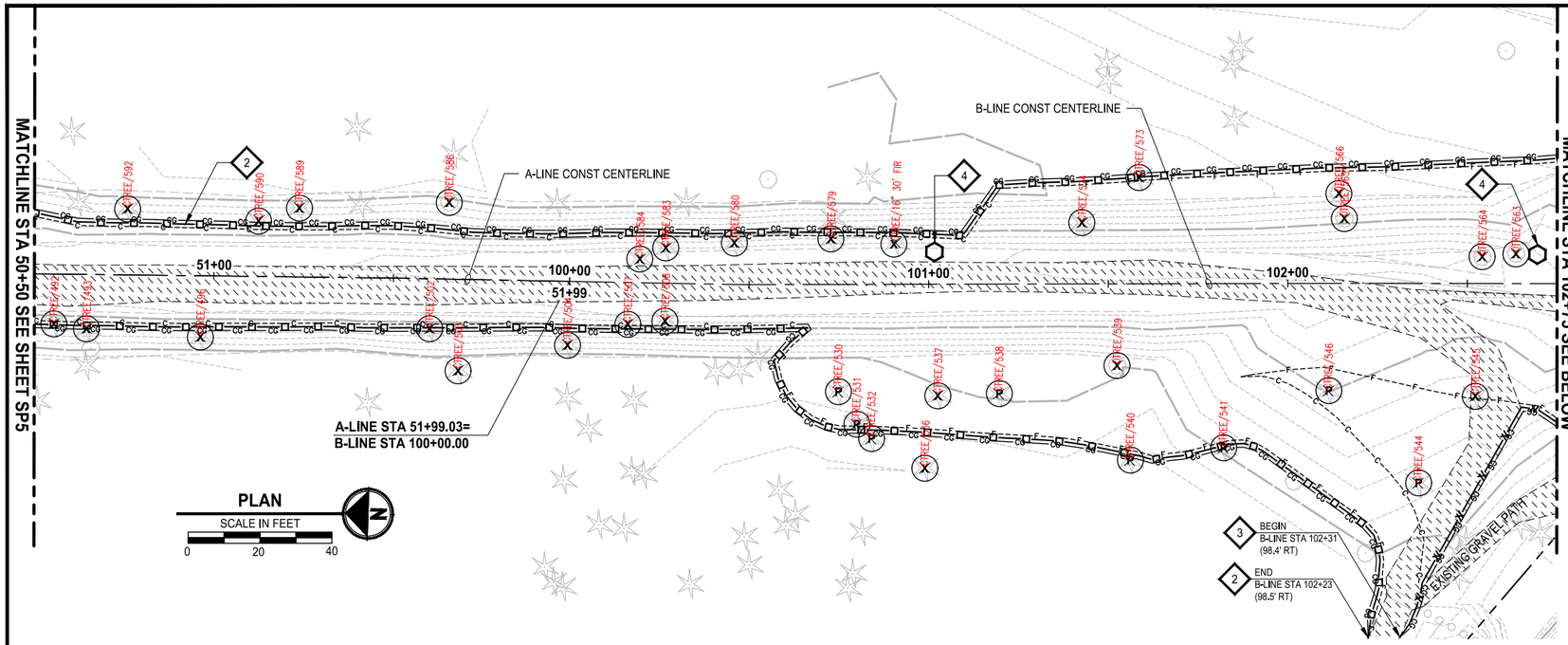

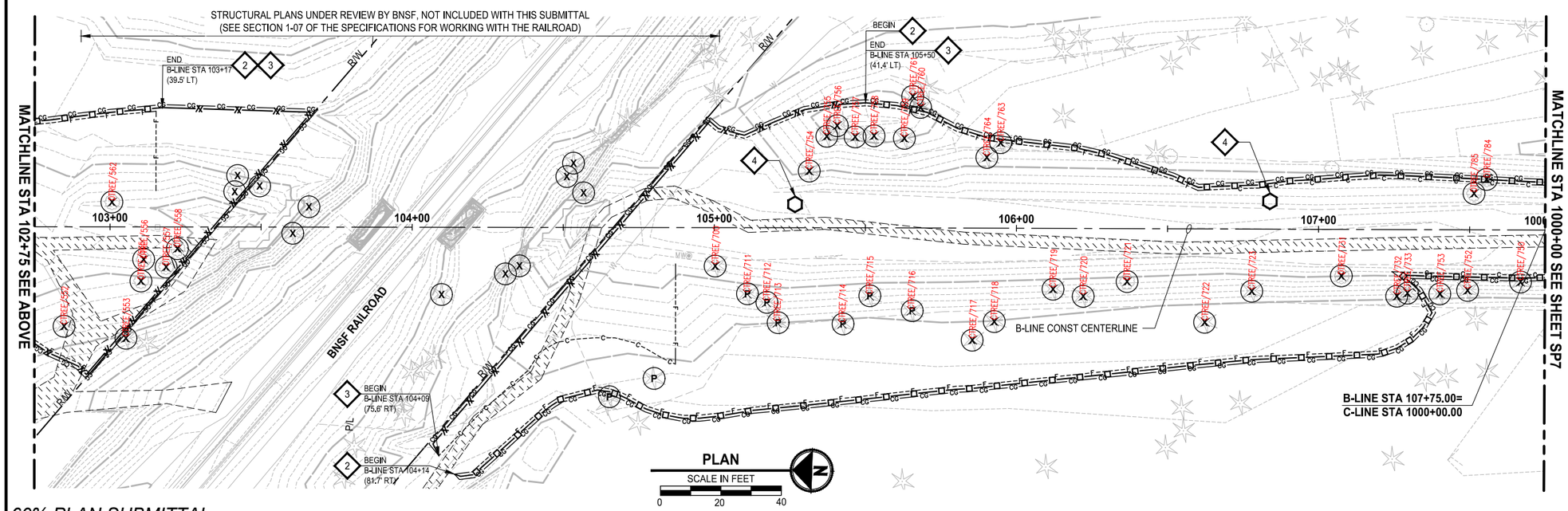

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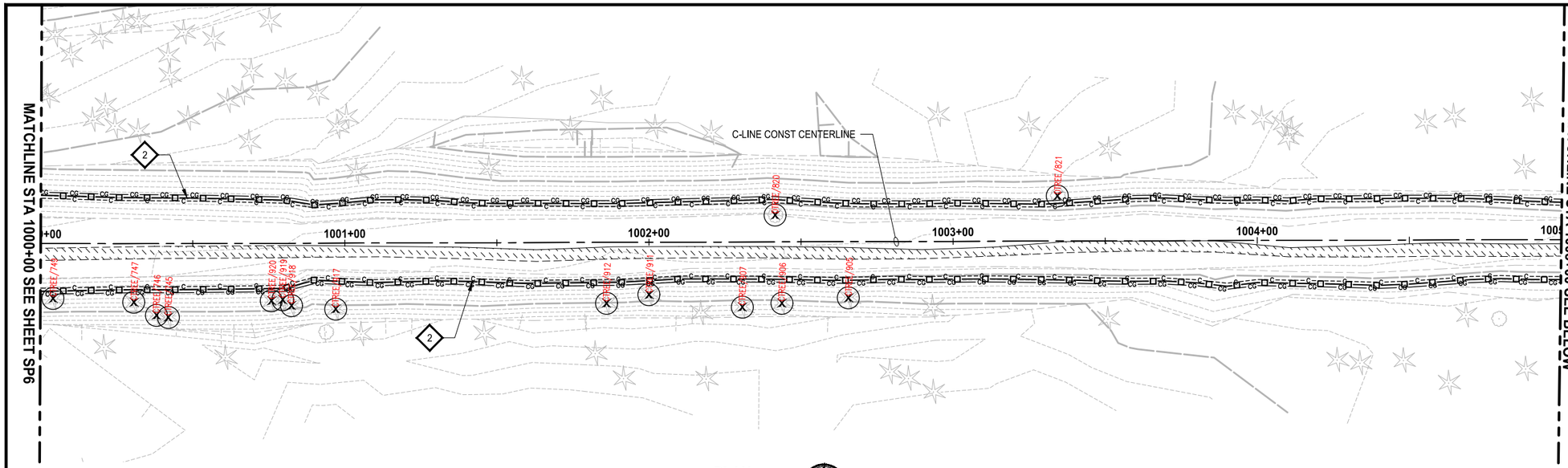
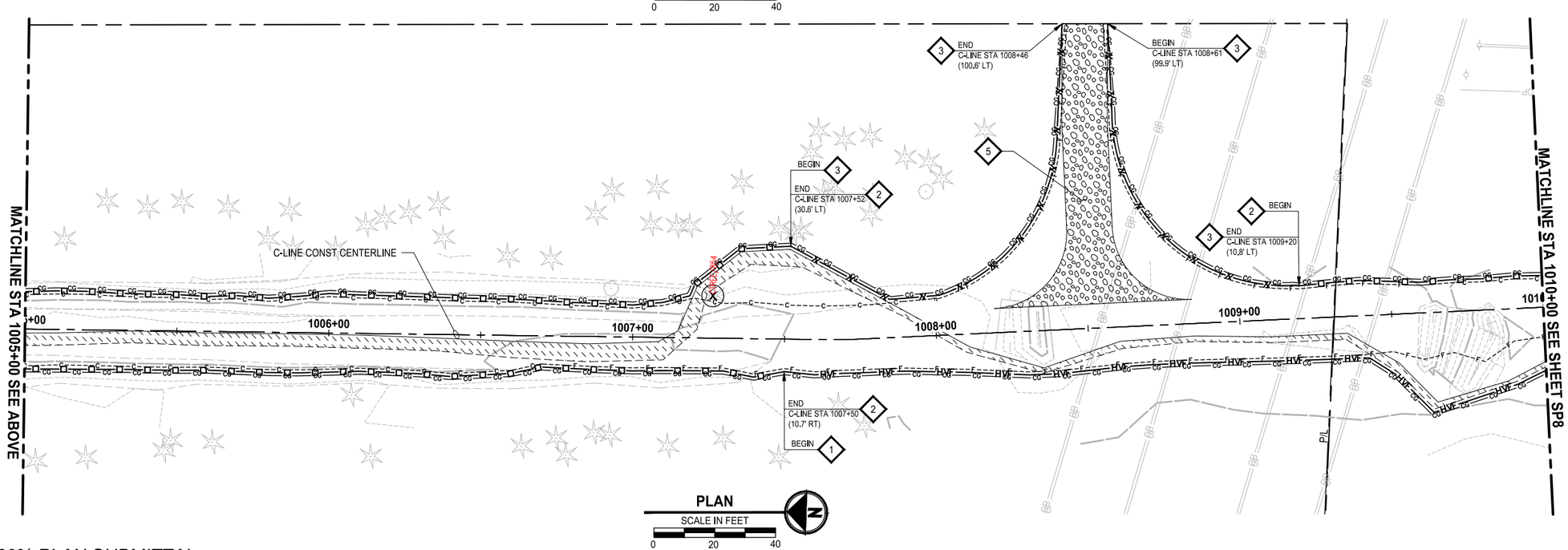
SHEET **10** OF **71** SHEETS

SP6





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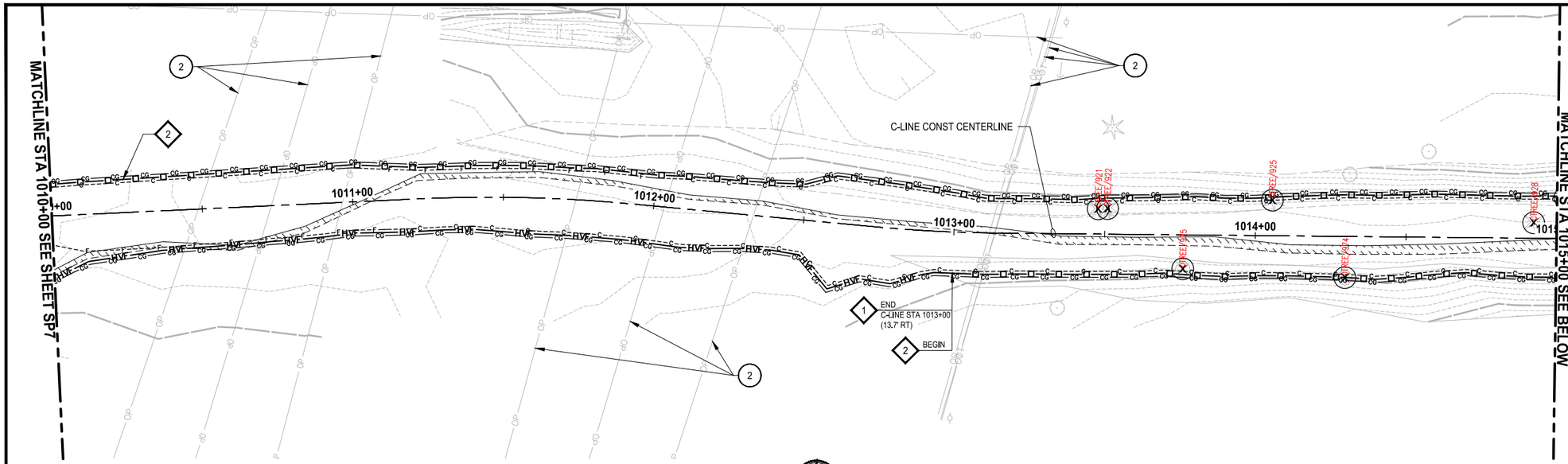
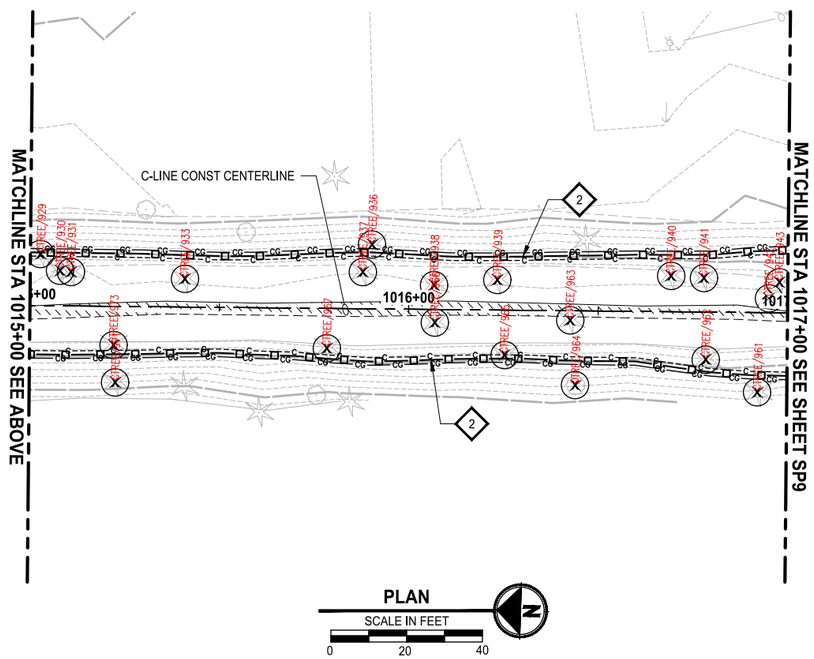
SHEET **11** OF **71** SHEETS

SP7





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2. SILT FENCE, PER 2021 KCSWDM SECTION D.2.1.3.1. SEE SPECIAL PROVISIONS SECTION 8-01. INSTALL FENCE AT C&G LIMITS. THE LINES SHOWN ARE OFFSET FOR PLAN CLARITY PURPOSES.
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811

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60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
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APPROVED							CIVIL	PARAMETRIX
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DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATHESON
STATE OF WASHINGTON
23005920
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

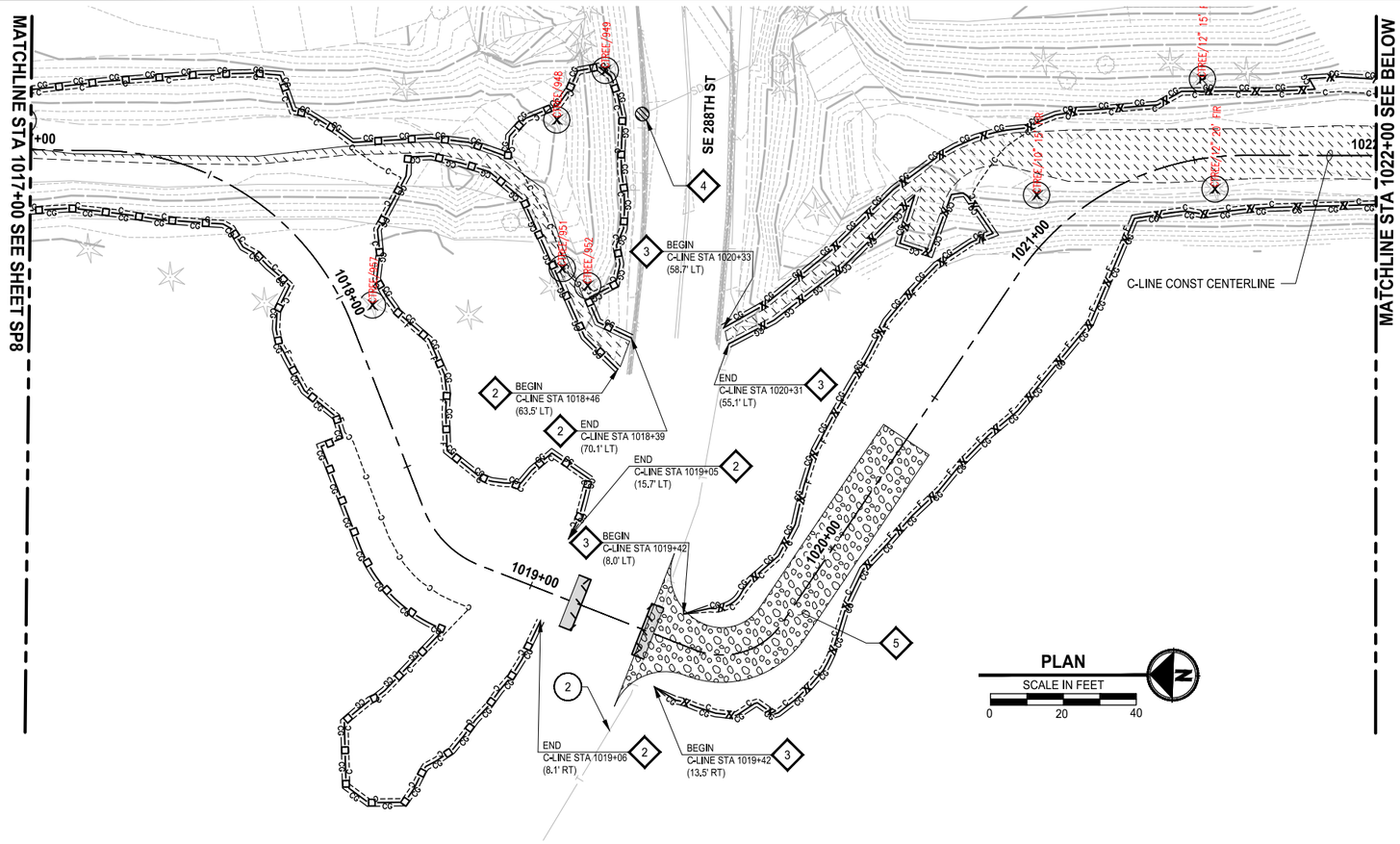
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

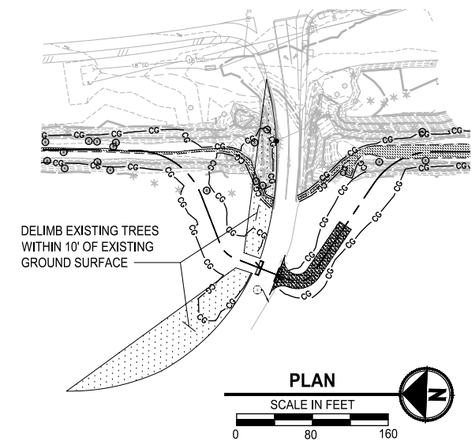
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

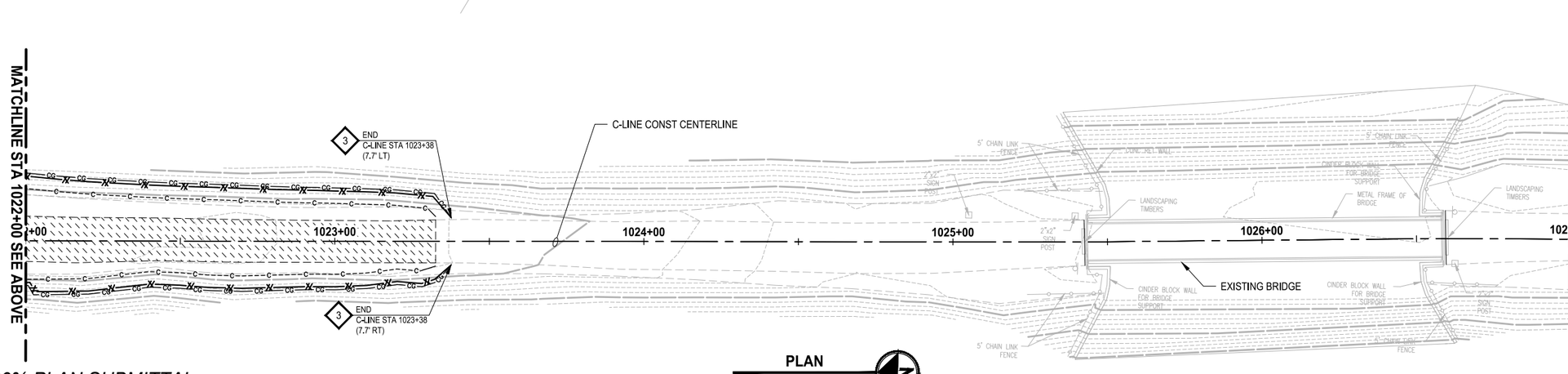
SITE PREPARATION PLAN

SHEET **12** OF **71** SHEETS

SP8







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TREVOR ALLAN MATTHESON — STATE OF WASHINGTON — 23005920 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

King County
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SOUTH INTERIM SEGMENT A
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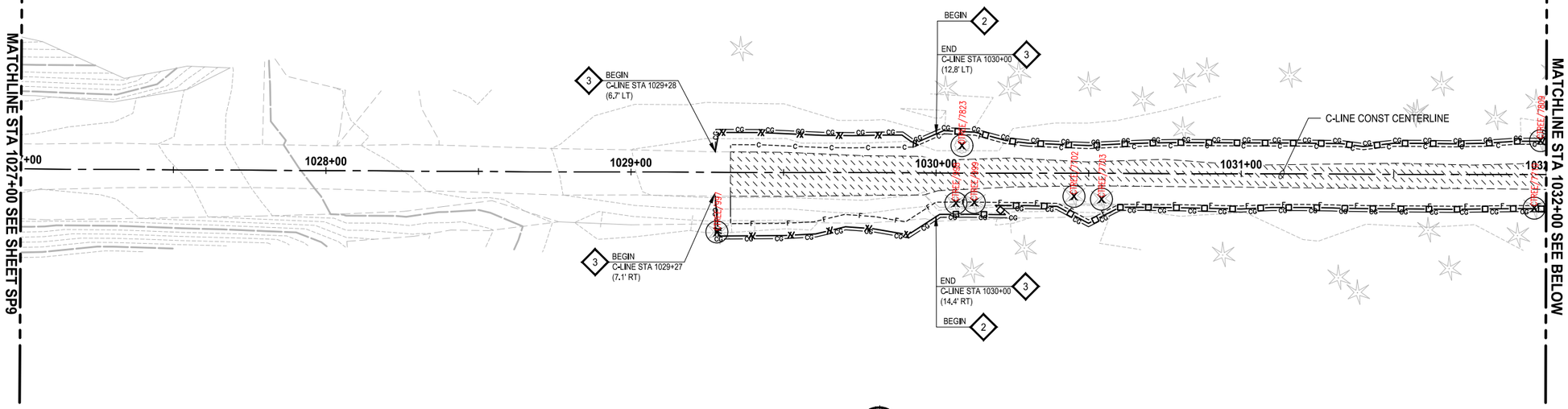
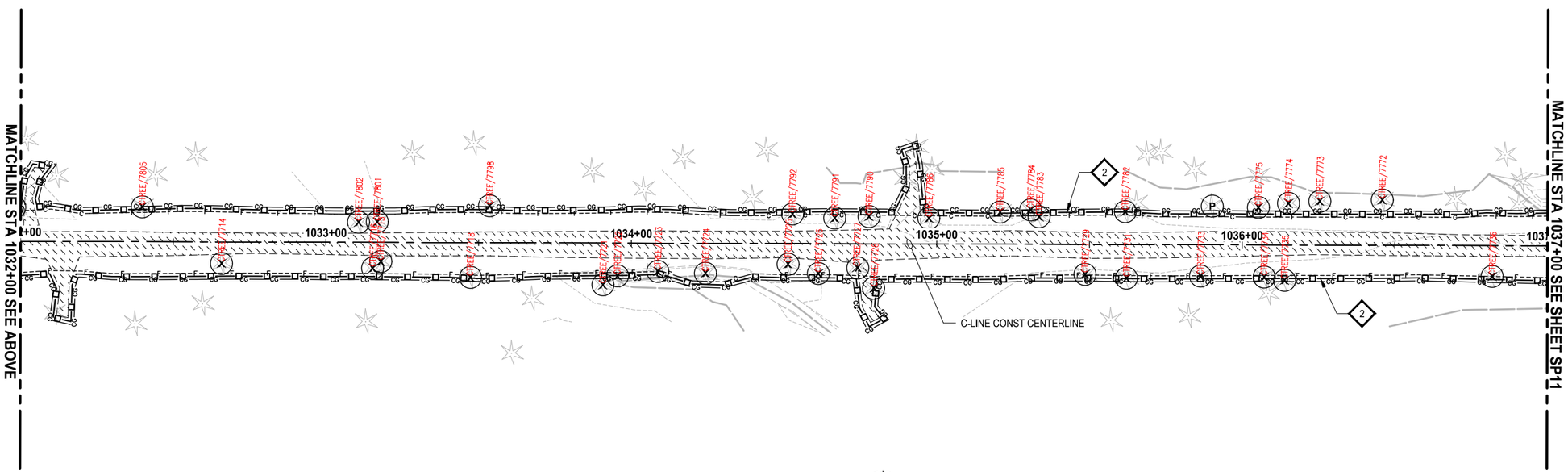
SITE PREPARATION PLAN





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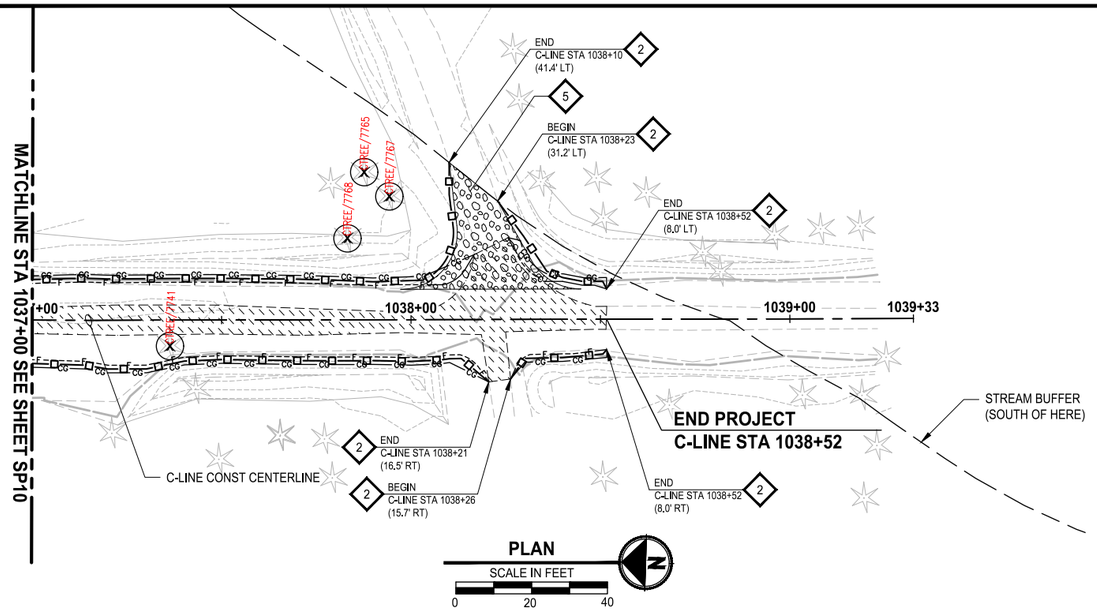
SITE PREPARATION PLAN

SHEET **14** OF **71** SHEETS

SP10



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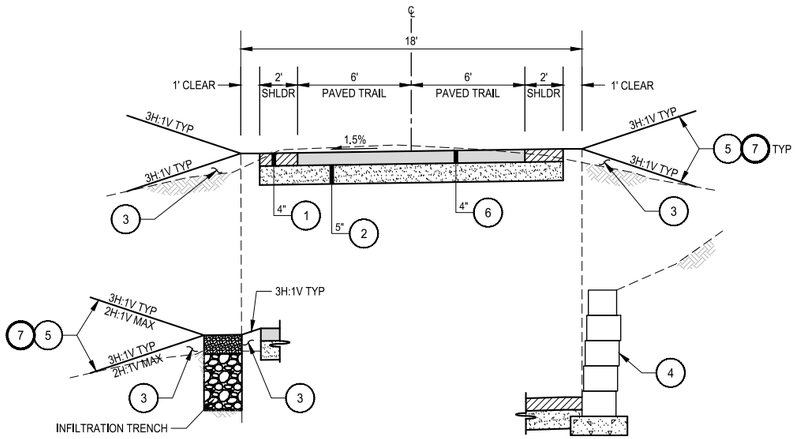
SITE PREPARATION PLAN

SHEET **15** OF **71** SHEETS

SP11

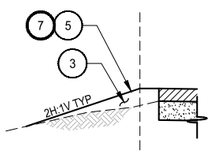
CONSTRUCTION NOTES

1. TRAIL CRUSHED ROCK SURFACING.
2. CRUSHED SURFACING BASE COURSE.
3. SELECT BORROW INCL. HAUL.
4. STRUCTURAL EARTH WALL. SEE WA SHEETS.
5. SEEDING, FERTILIZING, AND MULCHING.
6. HMA CL. 3/8" PG 64-22.
7. 4" TOPSOIL TYPE A.
8. 4-FT COATED CHAIN LINK FENCE.



INFILTRATION TRENCH 1/SD2

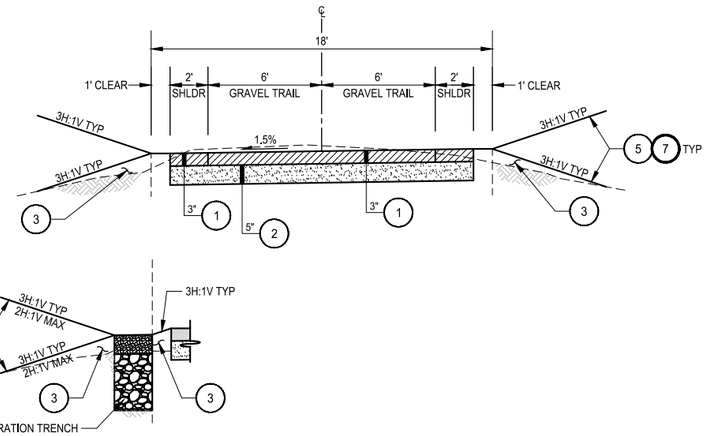
CUT SECTION WITH RETAINING WALL



2:1 FILL SECTION

A-LINE STA 2+33.45 TO 2+90.46
A-LINE STA 13+68.35 TO 14+30.84
A-LINE STA 28+69.27 TO 29+26.95
A-LINE STA 41+54.67 TO 42+27.49
A-LINE STA 43+14.75 TO 43+71.75
B-LINE STA 100+47.69 TO 101+01.61
B-LINE STA 106+80 TO 107+34
C-LINE STA 1018+38.21 TO 1018+95.27
C-LINE STA 1019+48.41 TO 1020+05.41

TYPICAL SECTION A TYP
NO SCALE



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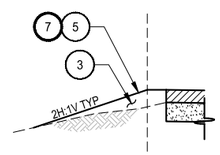

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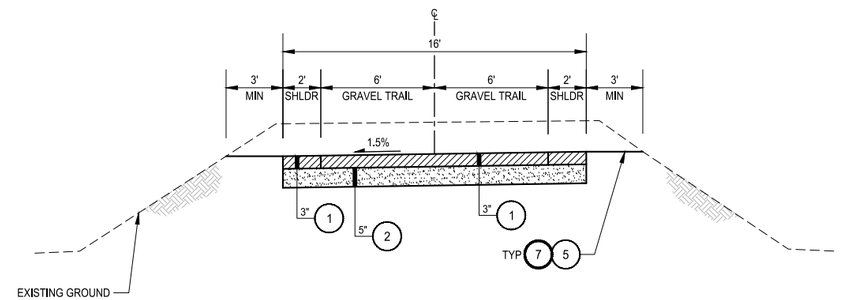
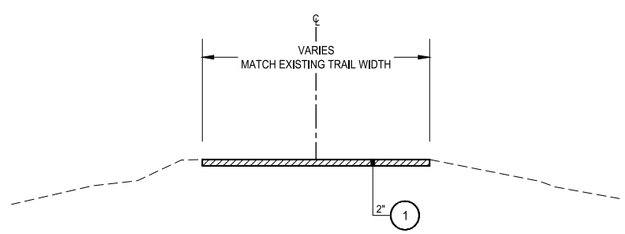
A-LINE STA 2+90.46 TO 13+68.35
A-LINE STA 29+26.95 TO 30+77.13
A-LINE STA 41+51.84 TO 41+54.67
A-LINE STA 43.71.75 TO 44+26.78
C-LINE STA 1007+00 TO 1012+50
C-LINE STA 1017+54.37 TO 1018+38.21
C-LINE STA 1020+05.41 TO 1021+44.18
C-LINE STA 1029+32.61 TO 1038+51.64

TYPICAL SECTION B TYP
NO SCALE



A-LINE STA 30+77.13 TO 41+51.84
A-LINE STA 44+26.78 TO 51+99.03
B-LINE STA 100+00 TO 101+01.61
B-LINE STA 106+80 TO 107+75
C-LINE STA 1000+00 TO 1007+00
C-LINE STA 1012+50 TO 1017+54.37
C-LINE STA 1021+44.18 TO 1023+32.61

TYPICAL SECTION C TYP
NO SCALE



C-LINE STA 1023+32.61 TO 1025+41.80
C-LINE STA 1026+60.25 TO 1029+32.61

TYPICAL SECTION D TYP
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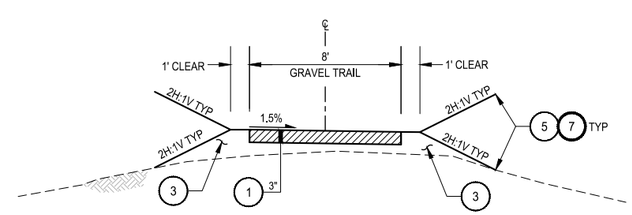


E-LINE STA 50+09.97 TO 52+18.28
F-LINE STA 10+00.00 TO 13+30.09
G-LINE STA 10+00.00 TO 11+01.85

TYPICAL SECTION E TYP
NO SCALE

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON
STATE OF WASHINGTON
23005920
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

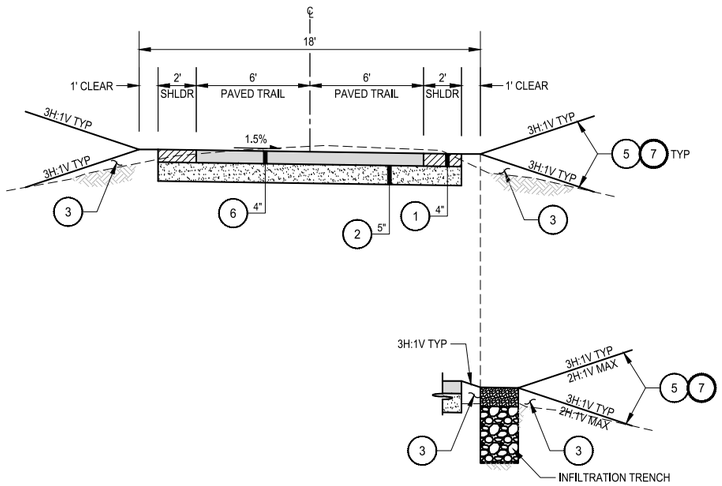
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TYPICAL CROSS SECTIONS

SHEET **16** OF **71** SHEETS

CS1

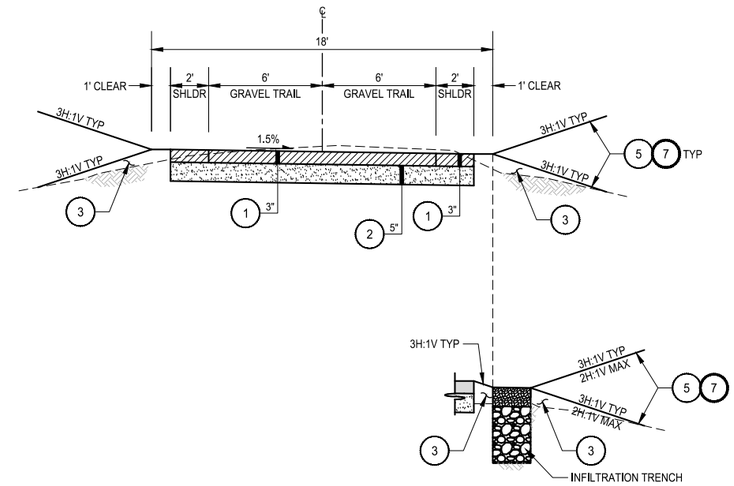


INFILTRATION TRENCH 1 SD2

A-LINE STA 15+03.33 TO 15+66.11
A-LINE STA 27+47.92 TO 28+06.00

TYPICAL SECTION F TYP

NO SCALE



INFILTRATION TRENCH 1 SD2

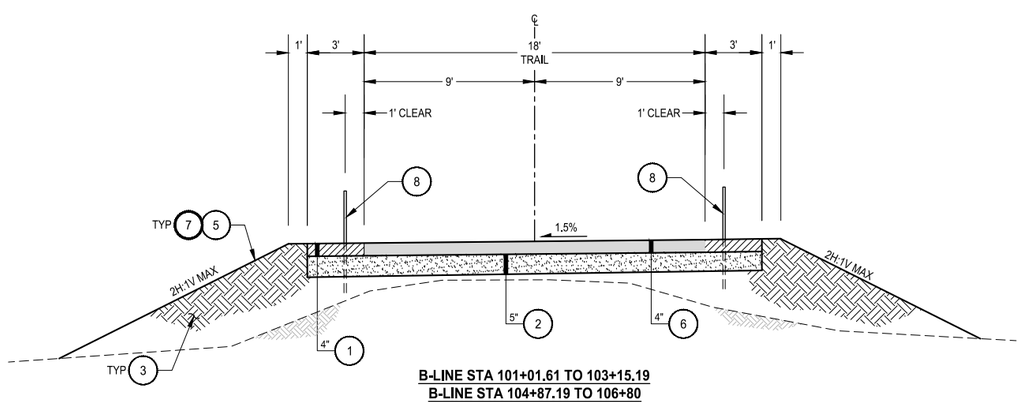
A-LINE STA 15+66.11 TO 27+47.92

TYPICAL SECTION G TYP

NO SCALE

CONSTRUCTION NOTES

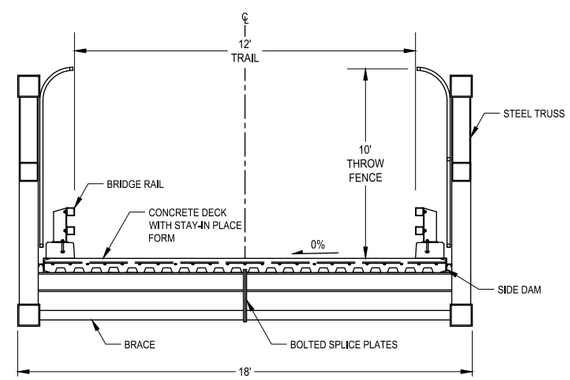
1. TRAIL CRUSHED ROCK SURFACING.
2. CRUSHED SURFACING BASE COURSE.
3. SELECT BORROW INCL. HAUL.
4. STRUCTURAL EARTH WALL. SEE WA SHEETS.
5. SEEDING, FERTILIZING, AND MULCHING.
6. HMA CL. 3/8" PG 64-22.
7. 4" TOPSOIL TYPE A.
8. 4-FT COATED CHAIN LINK FENCE.



B-LINE STA 101+01.61 TO 103+15.19
B-LINE STA 104+87.19 TO 106+80
BNSF BRIDGE APPROACH

SECTION H

NO SCALE



B-LINE STA 103+15.19 TO 104+87.19
BNSF BRIDGE

SECTION I

NO SCALE

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SOUTH INTERIM SEGMENT A
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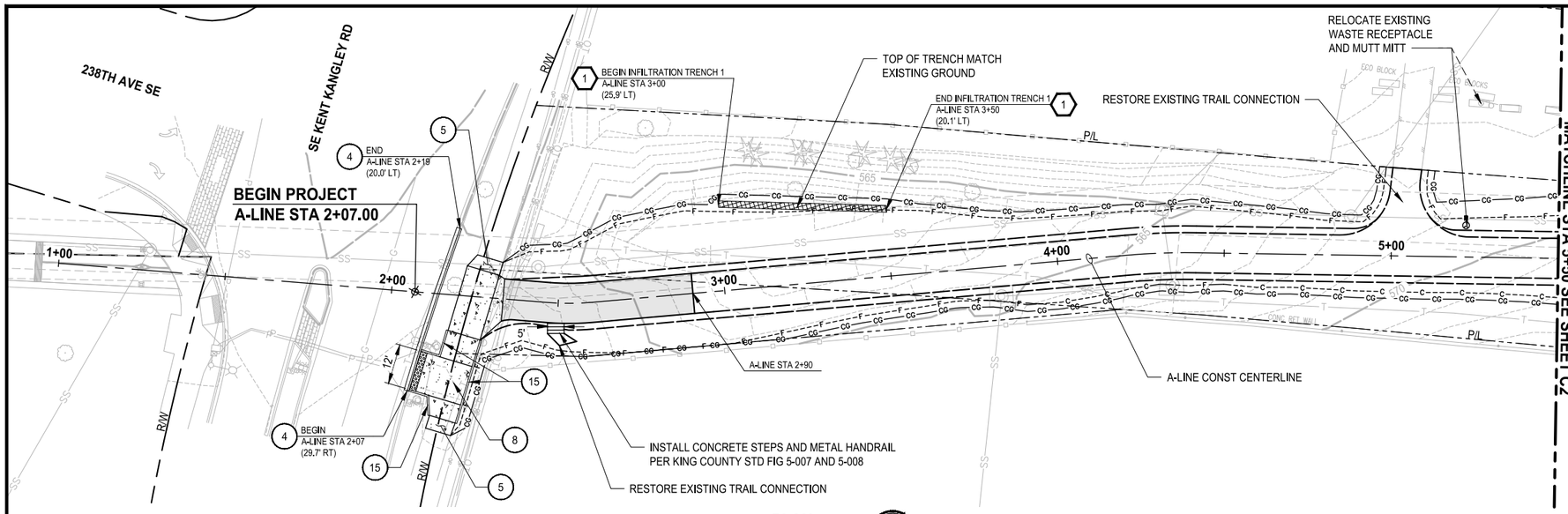
TYPICAL CROSS SECTIONS

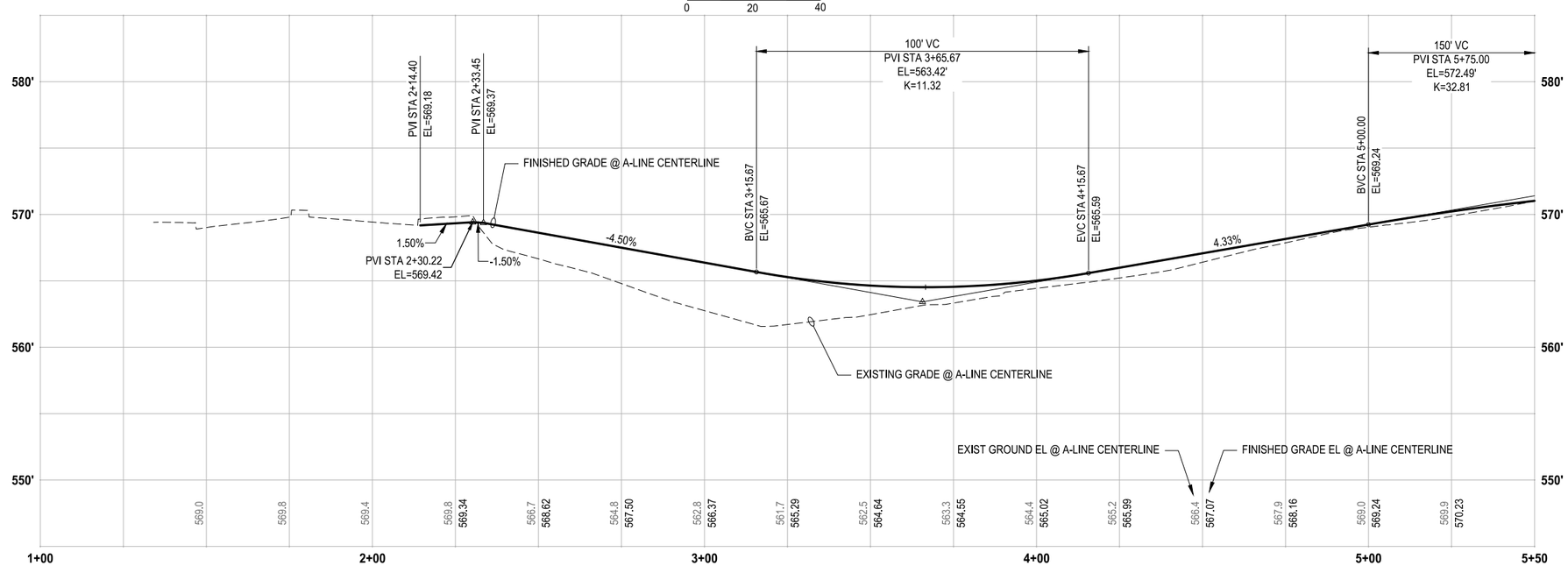
SHEET **17** OF **71** SHEETS

CS2



PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES:

1. 4-FT COATED CHAIN LINK FENCE WITH TOP RAIL PER KING COUNTY STD DWG #5-002.
2. STRUCTURAL EARTH WALL, SEE WA SHEETS FOR DETAILS.
3. BRICK MEDIAN.
4. CEMENT CONC. TRAFFIC CURB AND GUTTER OR CEMENT CONC. TRAFFIC CURB PER WSDOT STD PLAN F-10.12.
5. CEMENT CONC. SIDEWALK PER WSDOT STD PLAN F-30.10.
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12. 12 FT SWING GATE-DEEP FOUNDATION PER SHEET DD1.
13. INSTALL WASTE RECEPTACLE WITH MUTT MITT.
14. TWO RAIL FENCE PER KING COUNTY STD DWG #5-001A (UNPUBLISHED TO DATE).
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STORMWATER CONSTRUCTION NOTES:

1. INFILTRATION TRENCH, SEE DETAIL 1, SHEET SD2
2. INSTALL STORM CONVEYANCE SYSTEM, SEE THIS SHEET AND SD SHEETS FOR PROFILES AND GENERAL STORMWATER NOTES

LEGEND:

- HMA CL. 3/8" PG 64-22
- INFILTRATION TRENCH
- LOW PROFILE RESTORATION, TO BE DEVELOPED IN FUTURE SUBMITTAL
- CEMENT CONCRETE
- —MC—MC— MITIGATION CLEARING LIMITS

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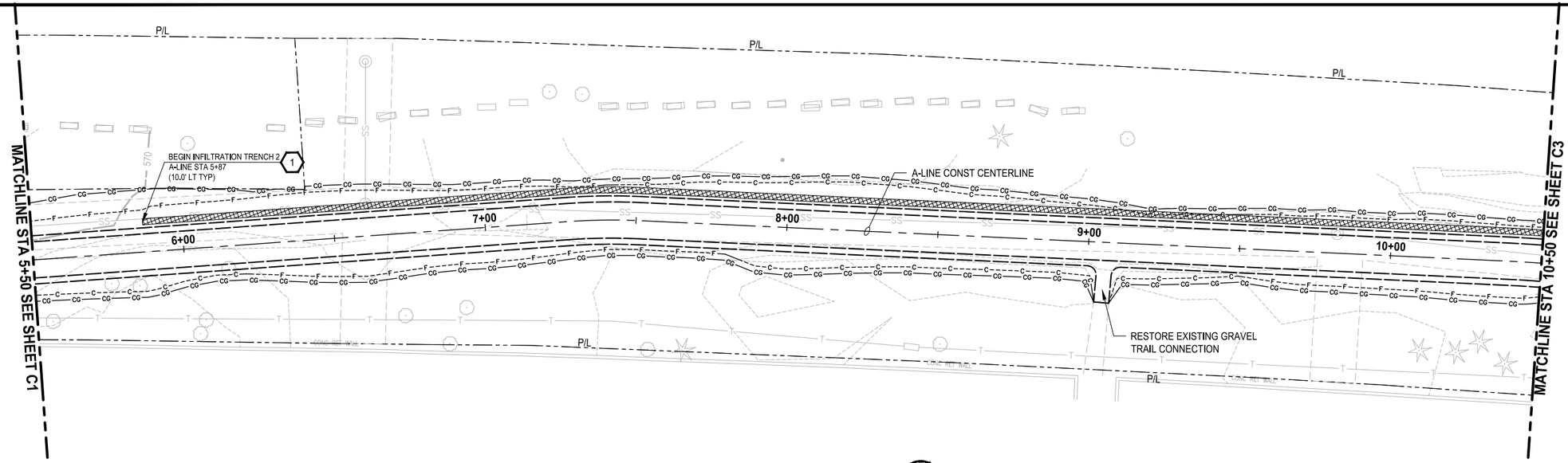
CIVIL PLANS

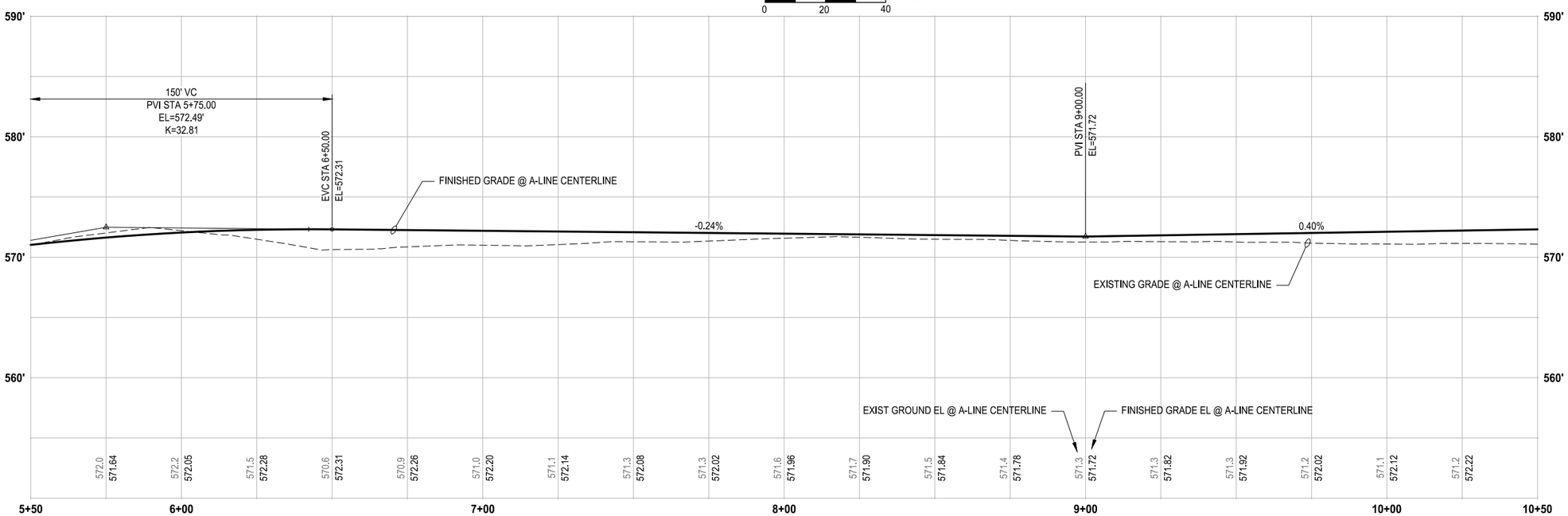
SHEET **18** OF **71** SHEETS

C1



PLAN

SCALE IN FEET
0 20 40



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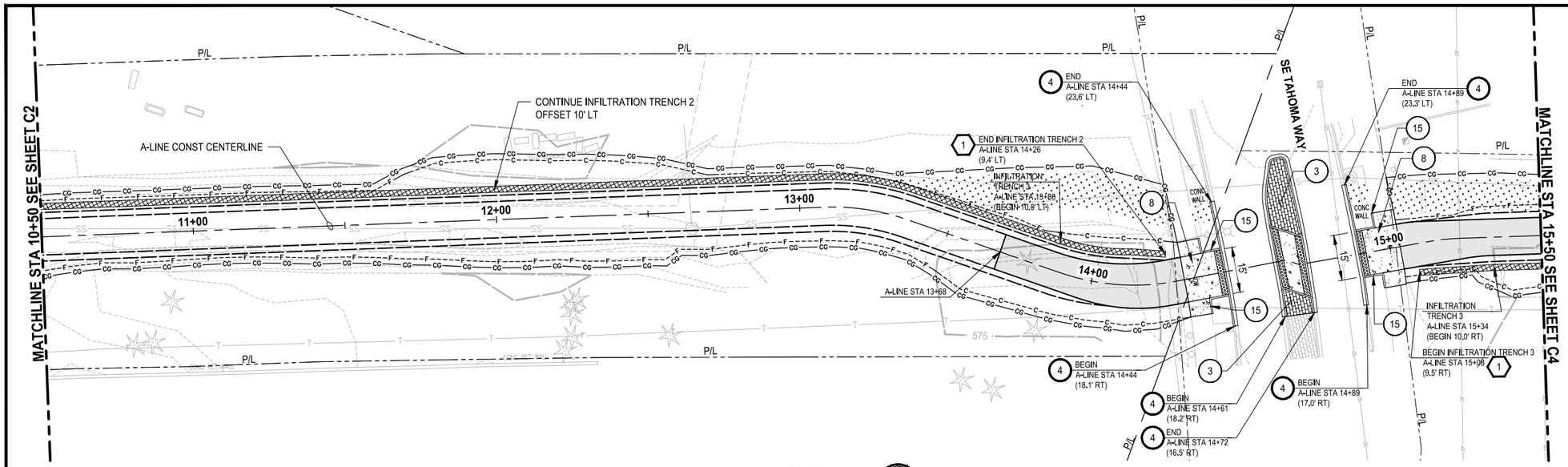
CIVIL PLANS

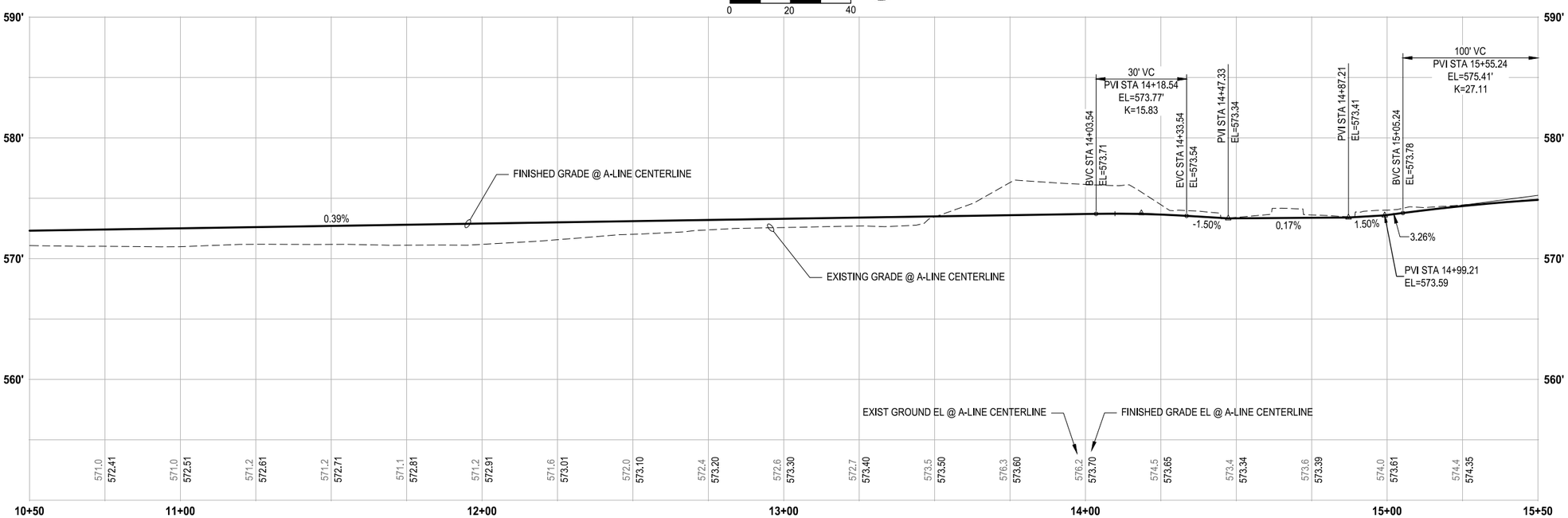
SHEET **19** OF **71** SHEETS

C2



PLAN

SCALE IN FEET 0 20 40



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TREVOR ALLAN MASTERSON STATE OF WASHINGTON 23005920 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

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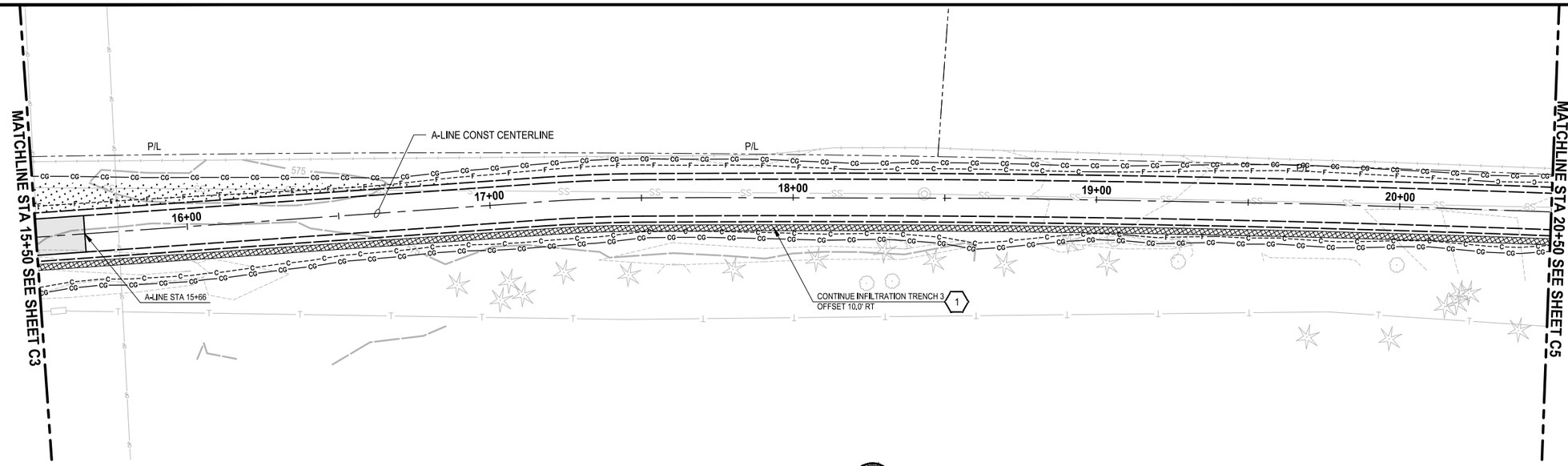
CIVIL PLANS

SHEET **20** OF **71** SHEETS

C3



PLAN

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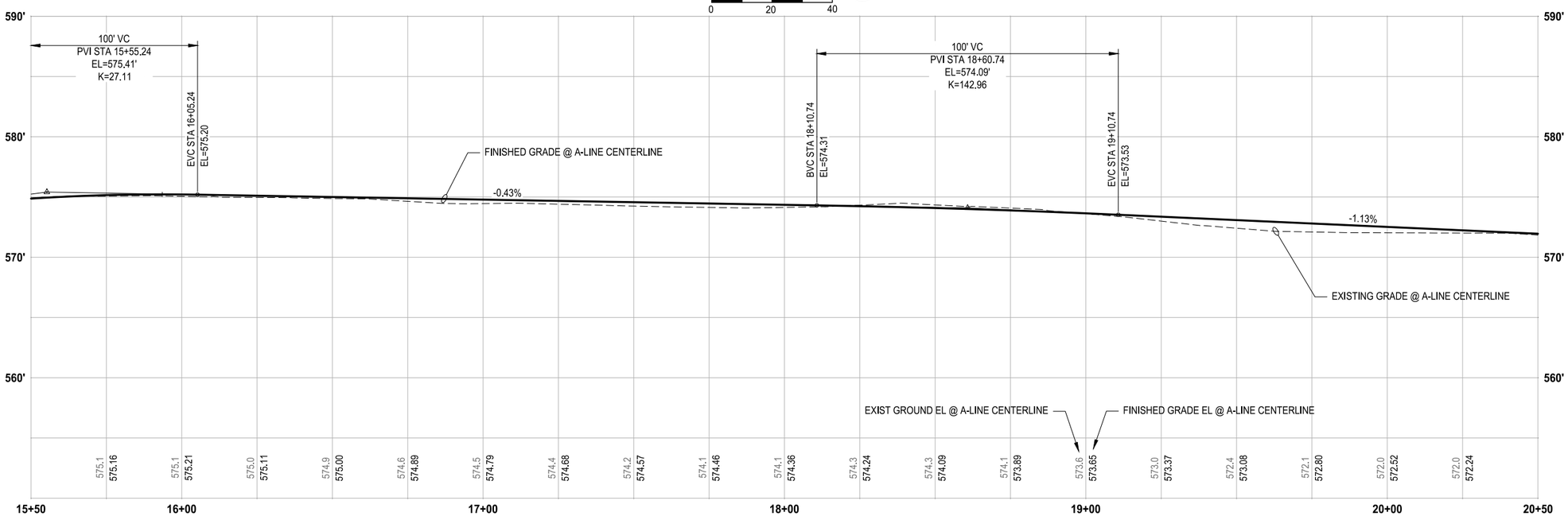

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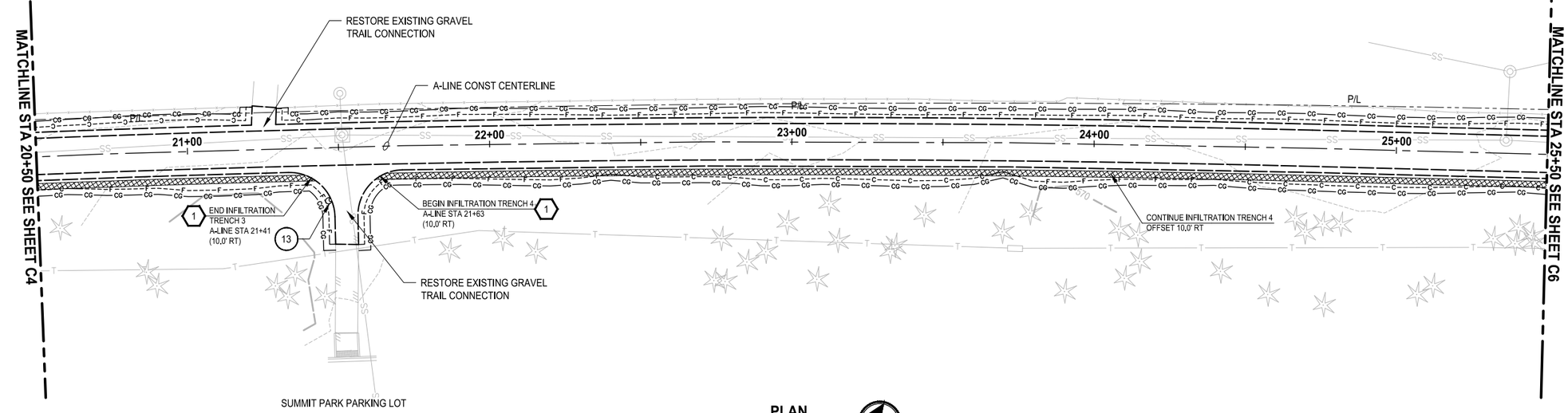

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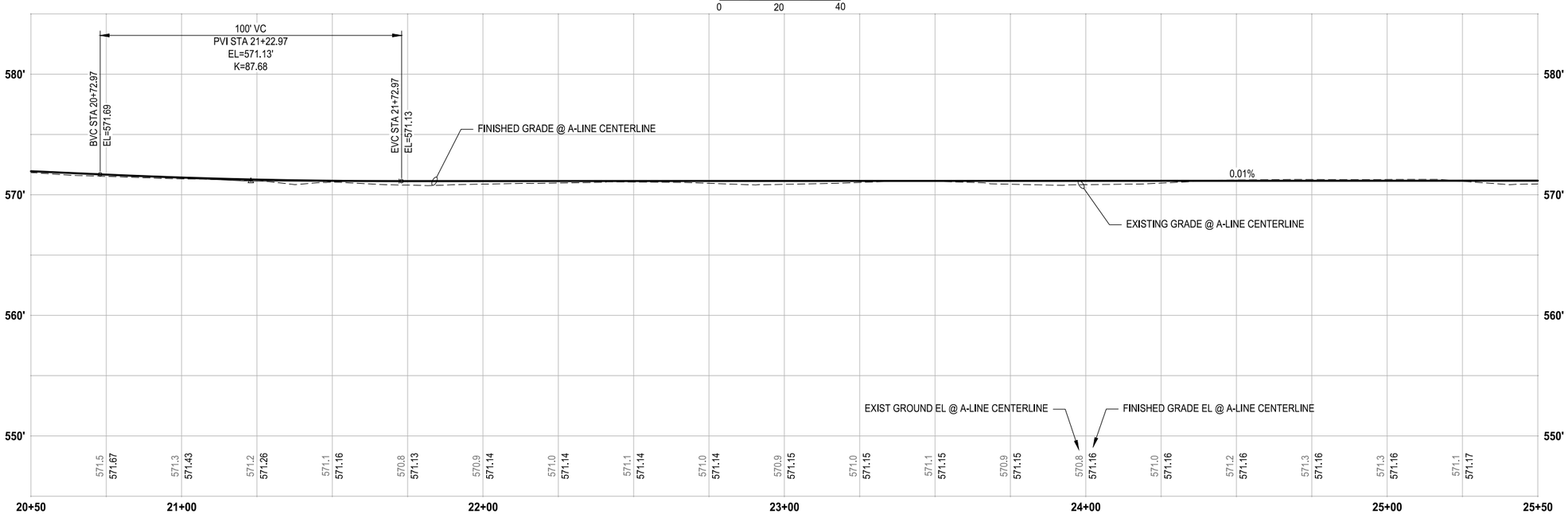

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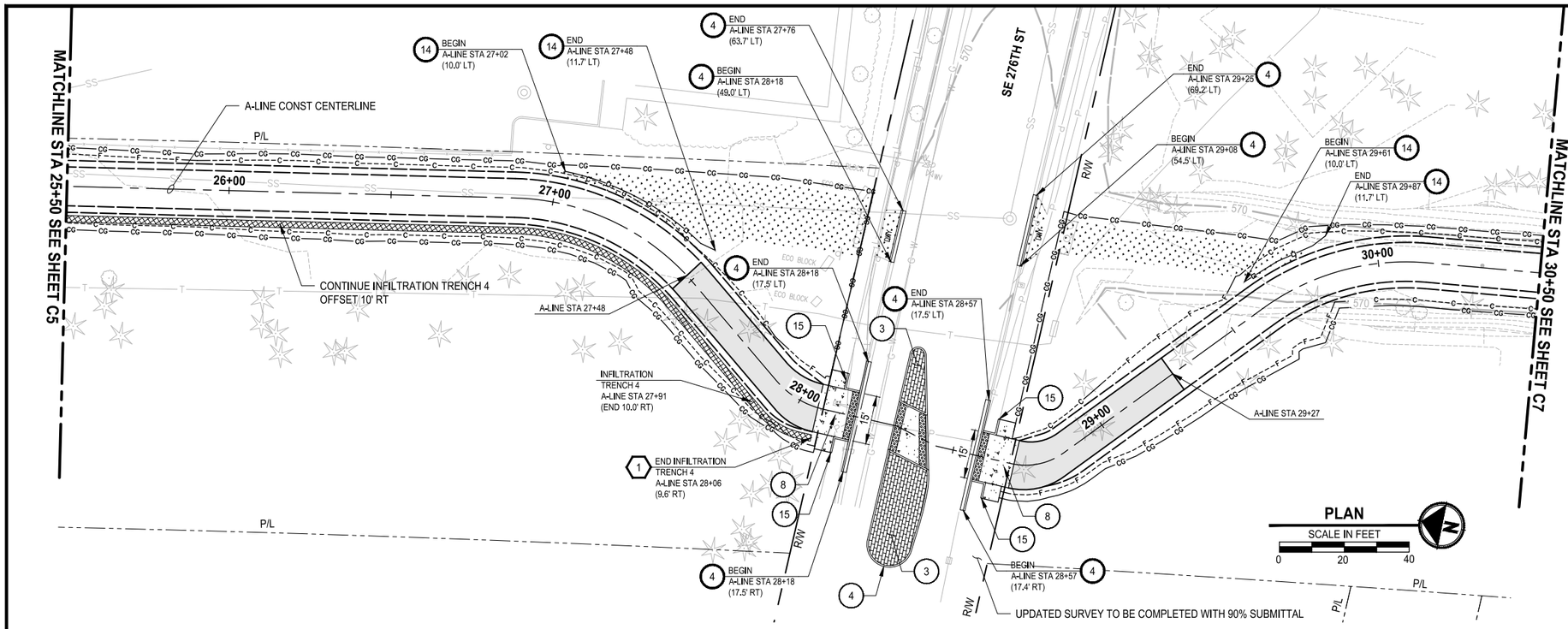

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STORMWATER CONSTRUCTION NOTES:

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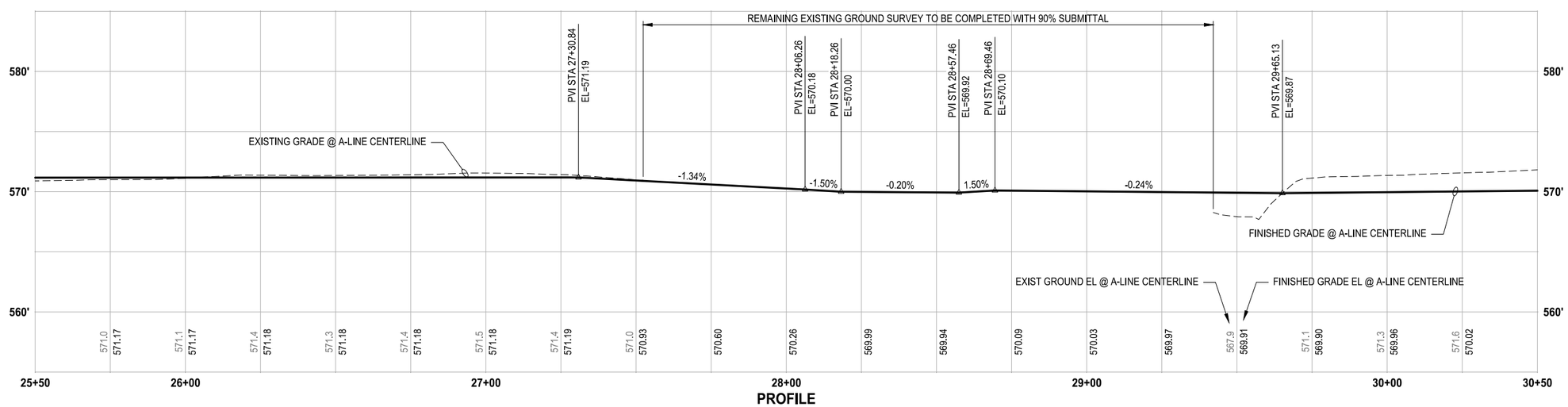
2. INSTALL STORM CONVEYANCE SYSTEM, SEE THIS SHEET AND SD SHEETS FOR PROFILES AND GENERAL STORMWATER NOTES

LEGEND:

- HMA CL. 3/8" PG 64-22
- INFILTRATION TRENCH
- LOW PROFILE RESTORATION, TO BE DEVELOPED IN FUTURE SUBMITTAL
- CEMENT CONCRETE
- —MC—MC— MITIGATION CLEARING LIMITS



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

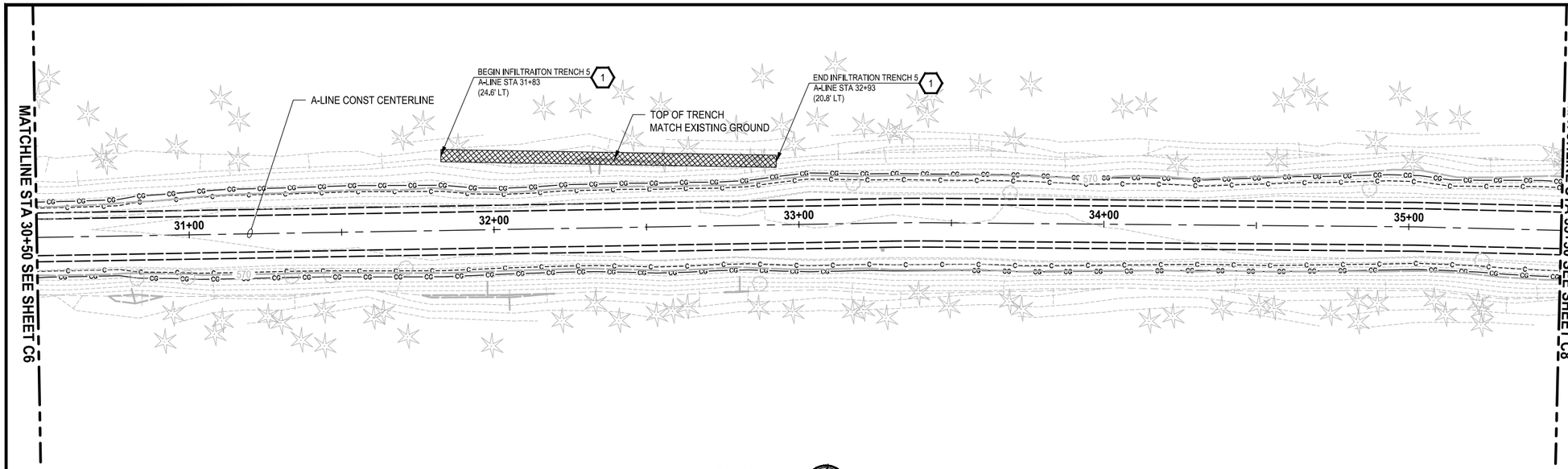
GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON STATE OF WASHINGTON 23005920 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

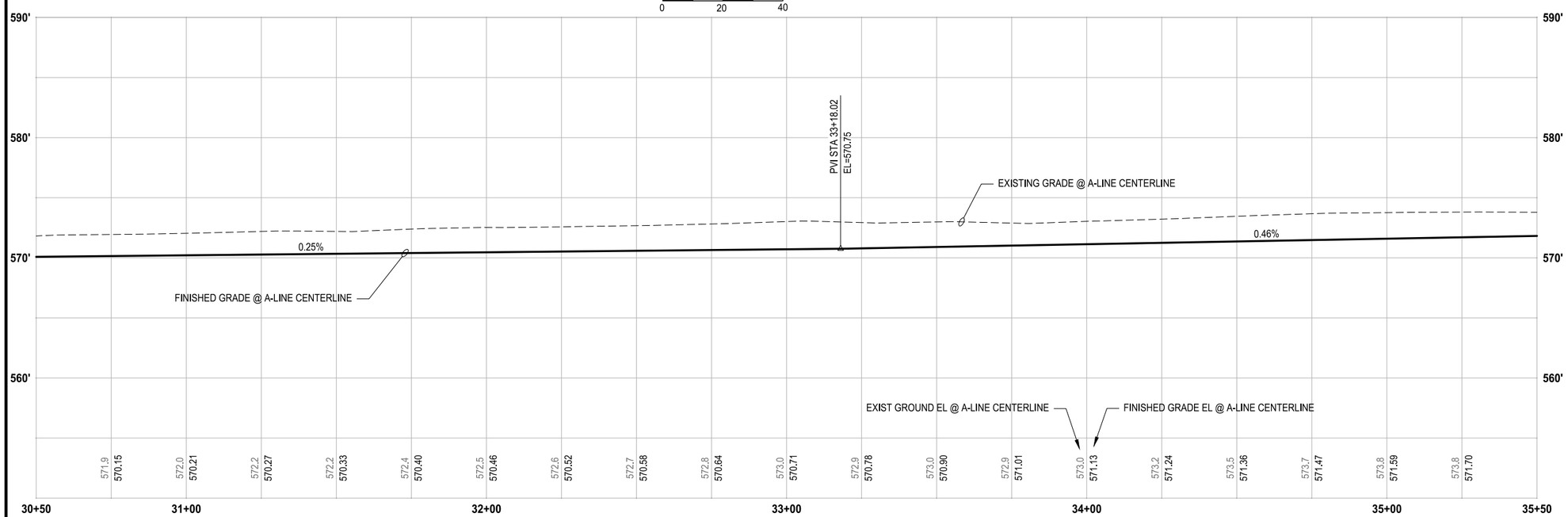
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS



PLAN

SCALE IN FEET
0 20 40



PROFILE

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CONSTRUCTION NOTES:

1. 4-FT COATED CHAIN LINK FENCE WITH TOP RAIL PER KING COUNTY STD DWG #5-002.
2. STRUCTURAL EARTH WALL, SEE WA SHEETS FOR DETAILS.
3. BRICK MEDIAN.
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- LOW PROFILE RESTORATION, TO BE DEVELOPED IN FUTURE SUBMITTAL
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TREVOR ALLAN MASTERSON
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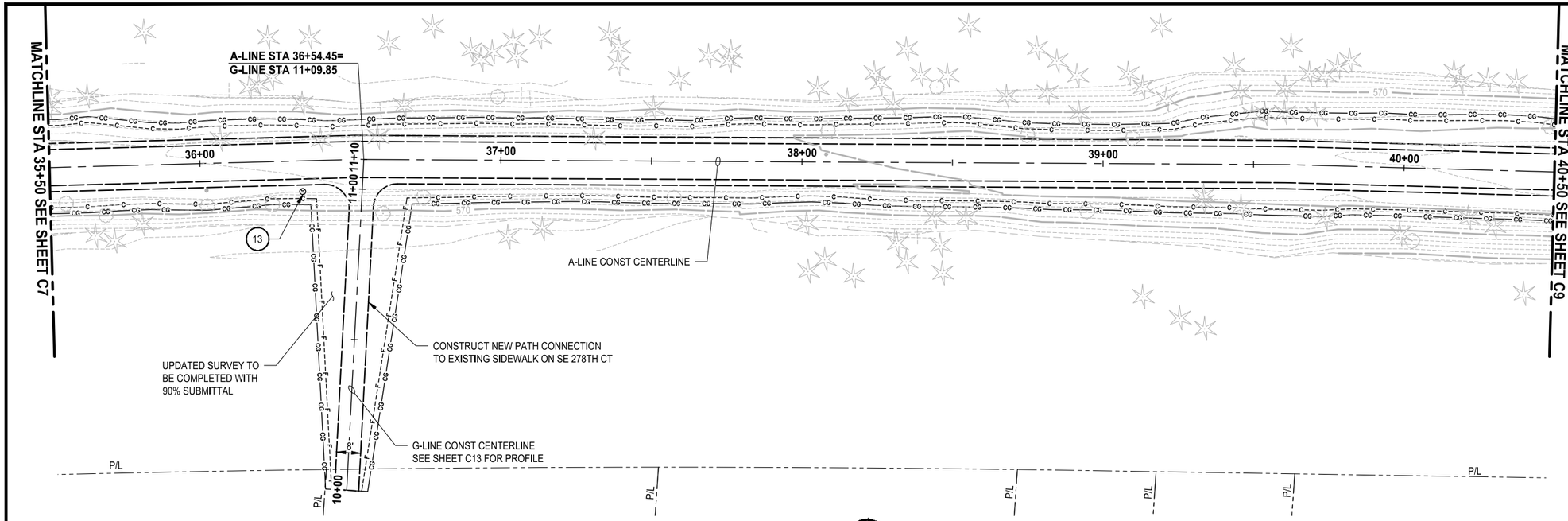
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS

SHEET **24** OF **71** SHEETS

C7



PLAN

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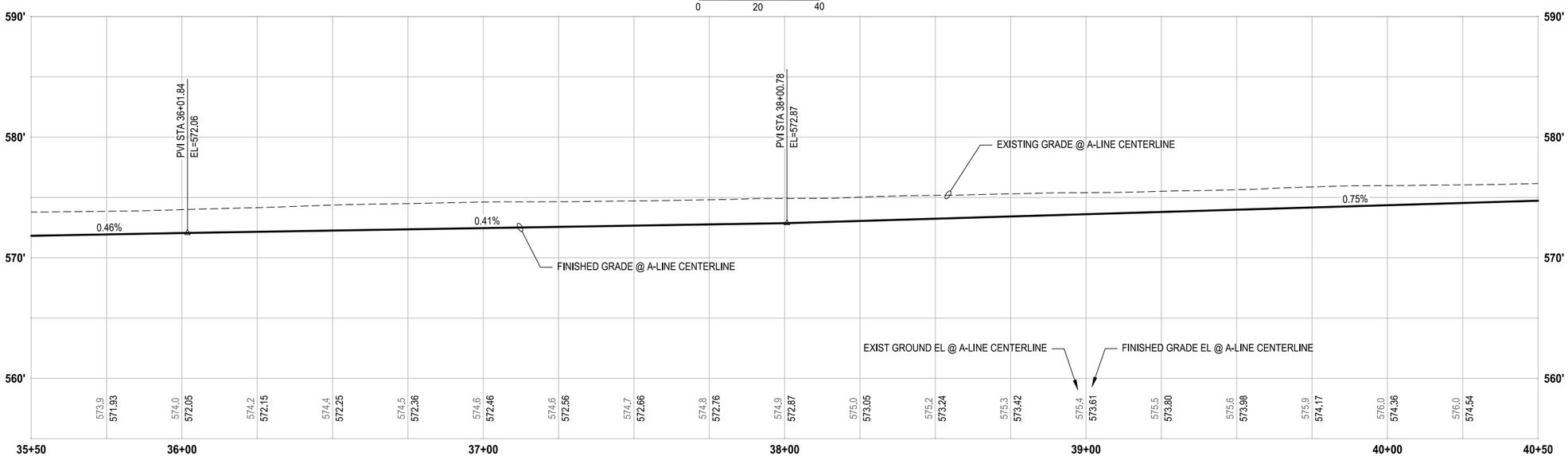

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DRAWN							ENG.	PARAMETRIX

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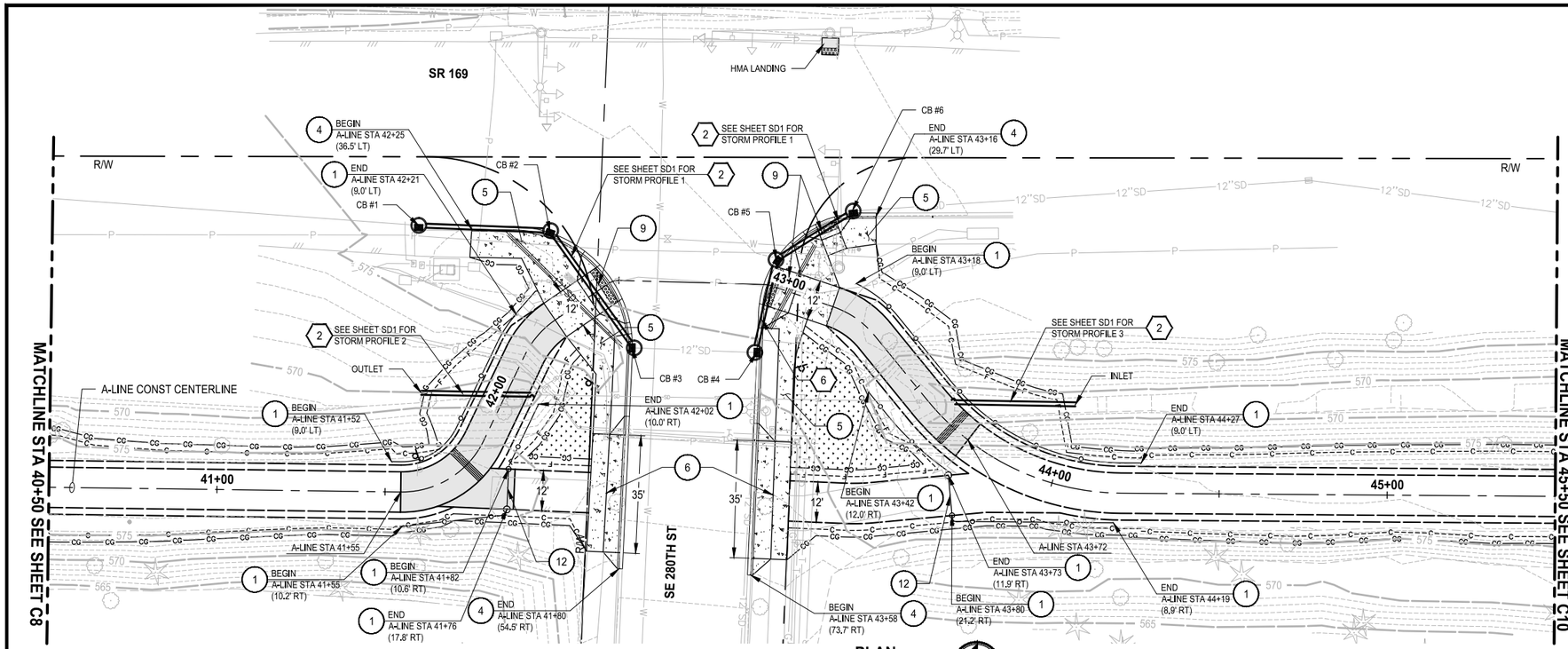
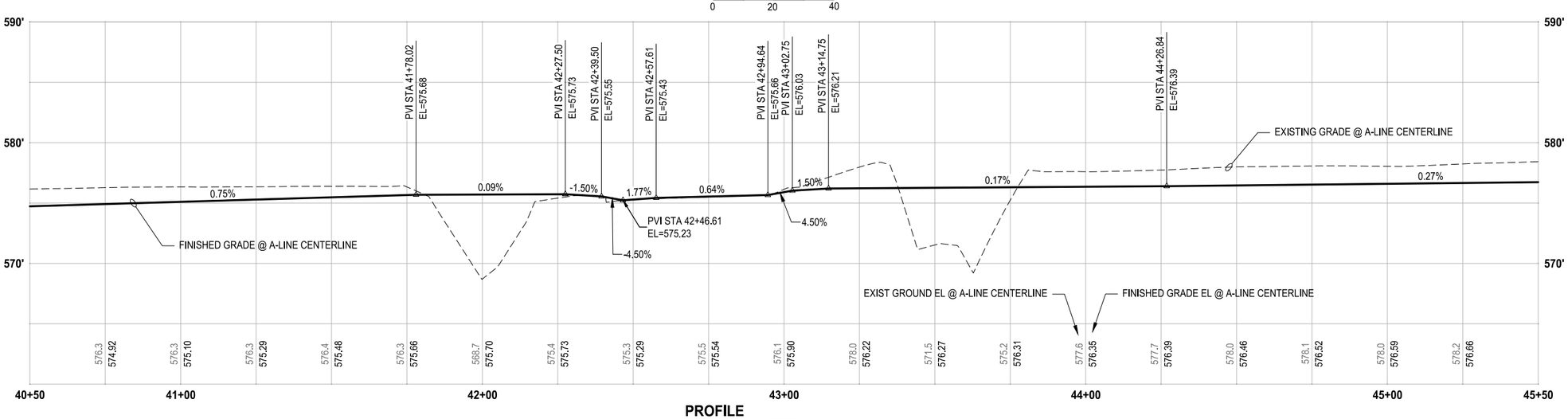
CIVIL PLANS



PLAN

SCALE IN FEET 0 20 40



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TREVOR ALLAN MATTHESON, STATE OF WASHINGTON, 23005920, REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

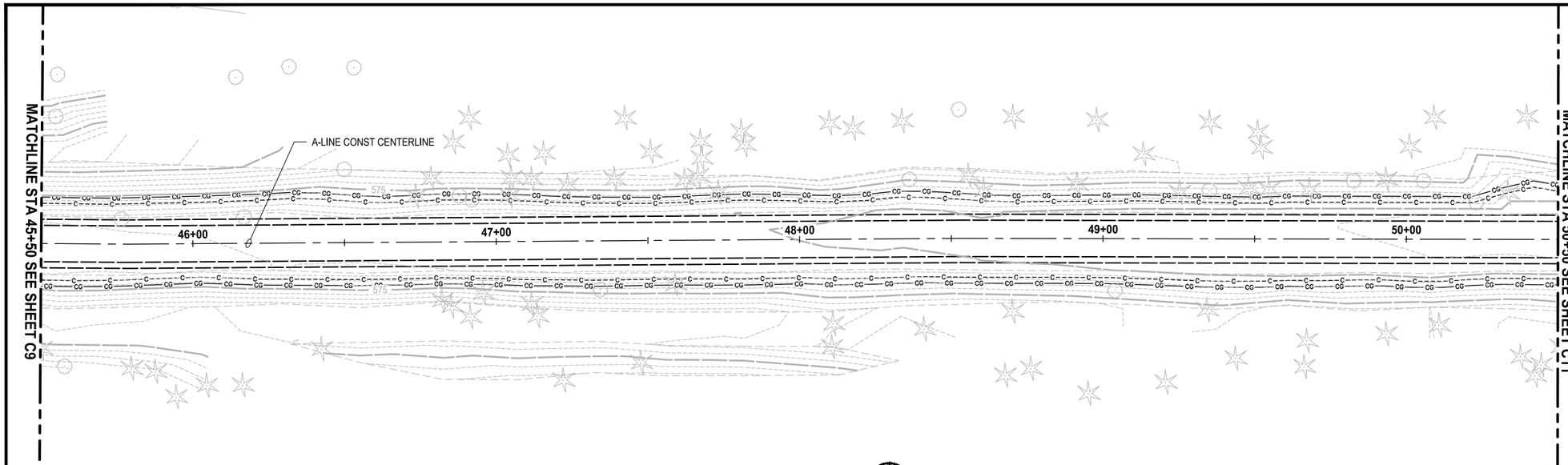
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS

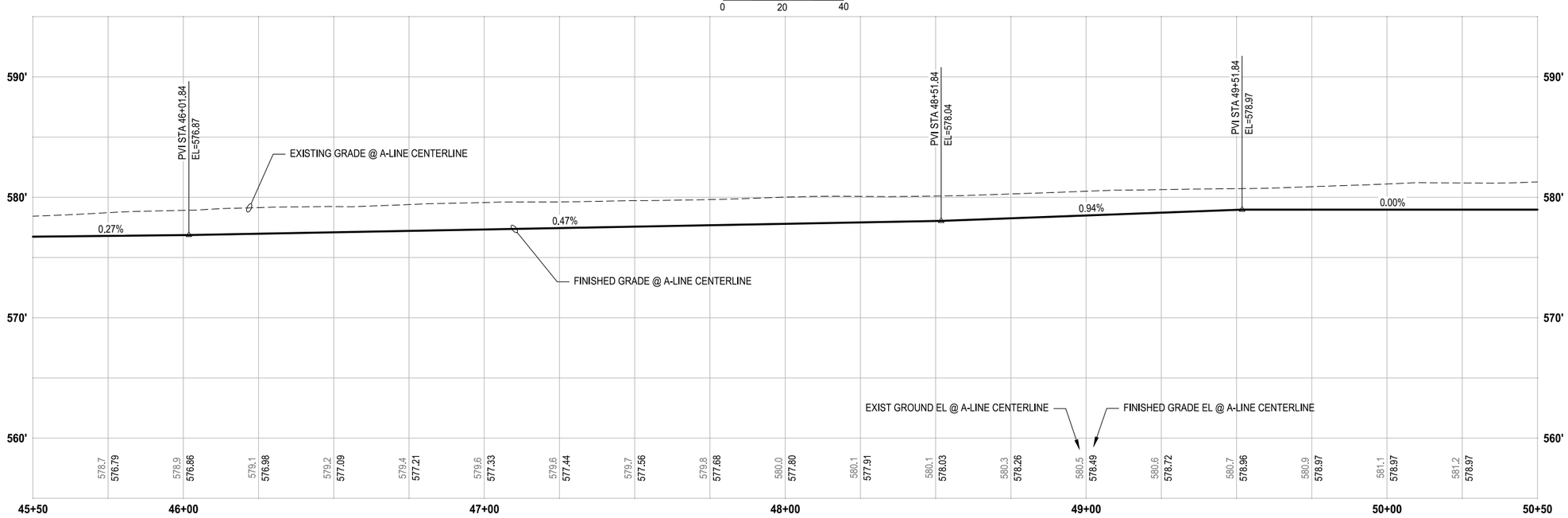
SHEET **26** OF **71** SHEETS

C9



PLAN

SCALE IN FEET
0 20 40



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TREVOR ALLAN MATTERSON
STATE OF WASHINGTON
52005920
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
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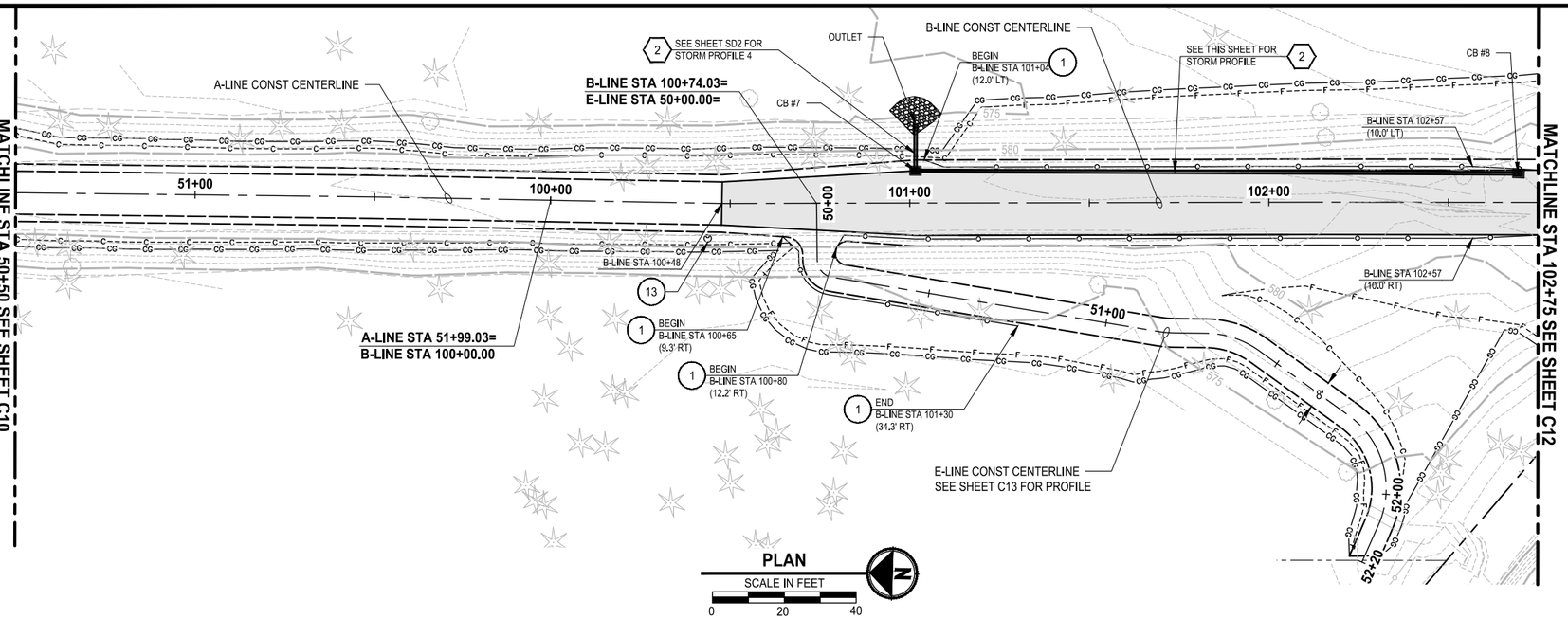
CIVIL PLANS

SHEET **27** OF **71** SHEETS

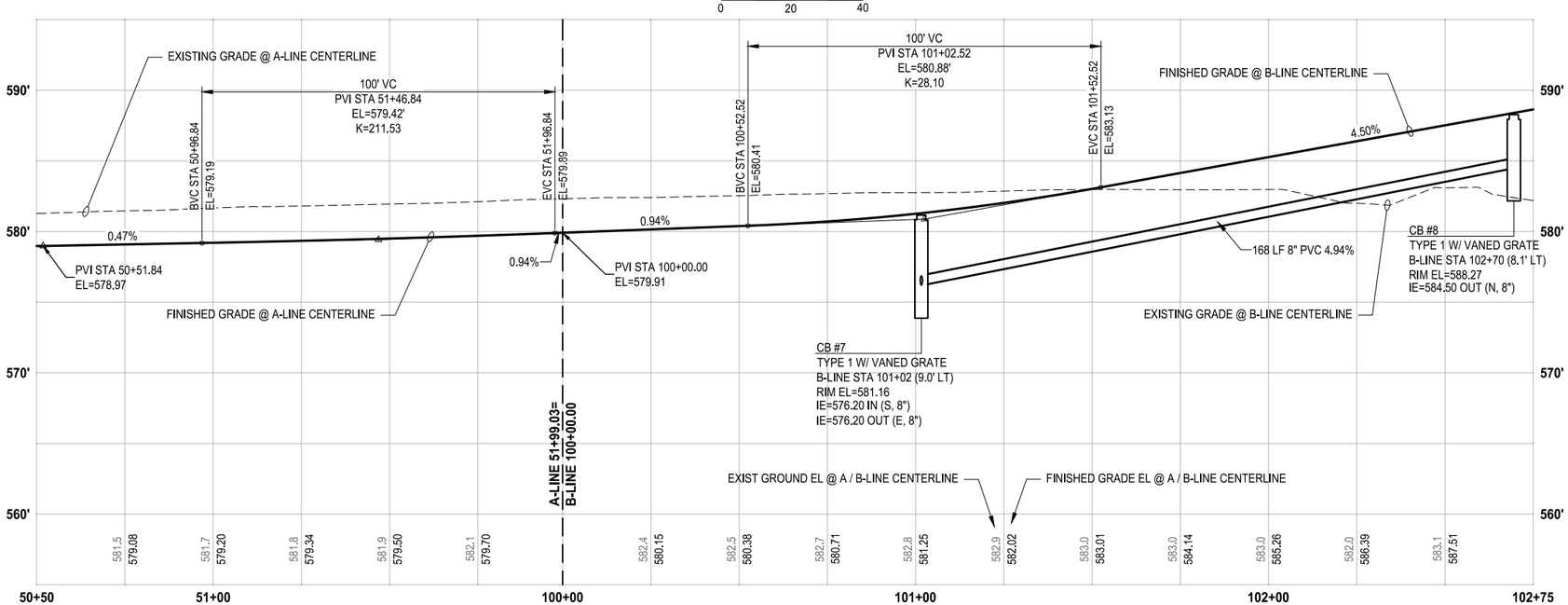
C10



PLAN

SCALE IN FEET

0 20 40



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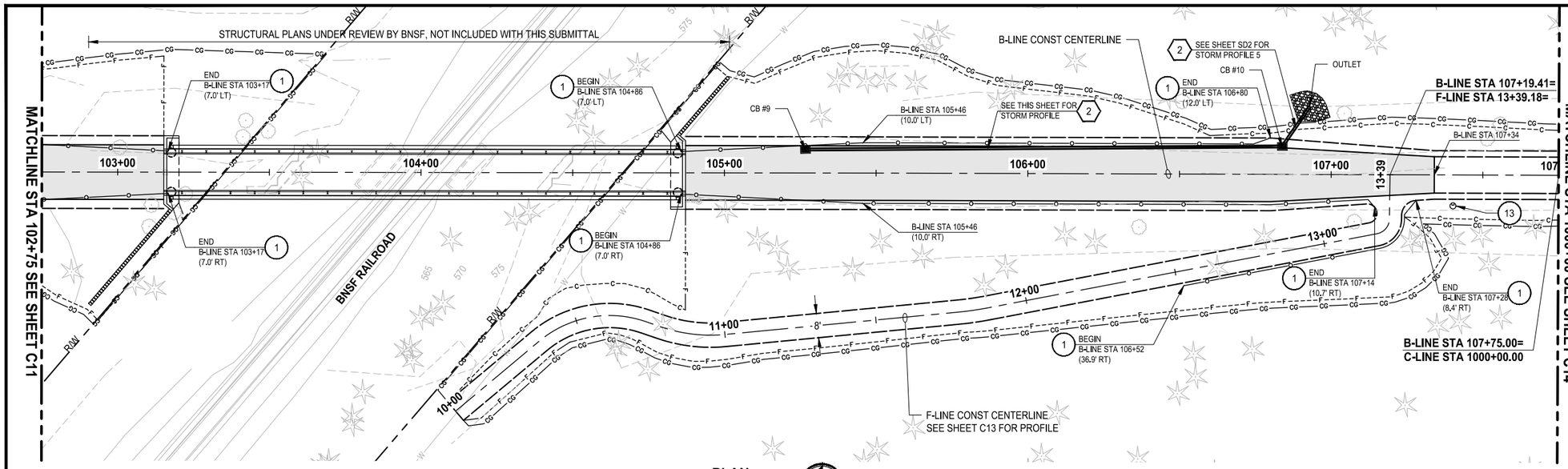
CIVIL PLANS

SHEET **28** OF **71** SHEETS

C11



PLAN

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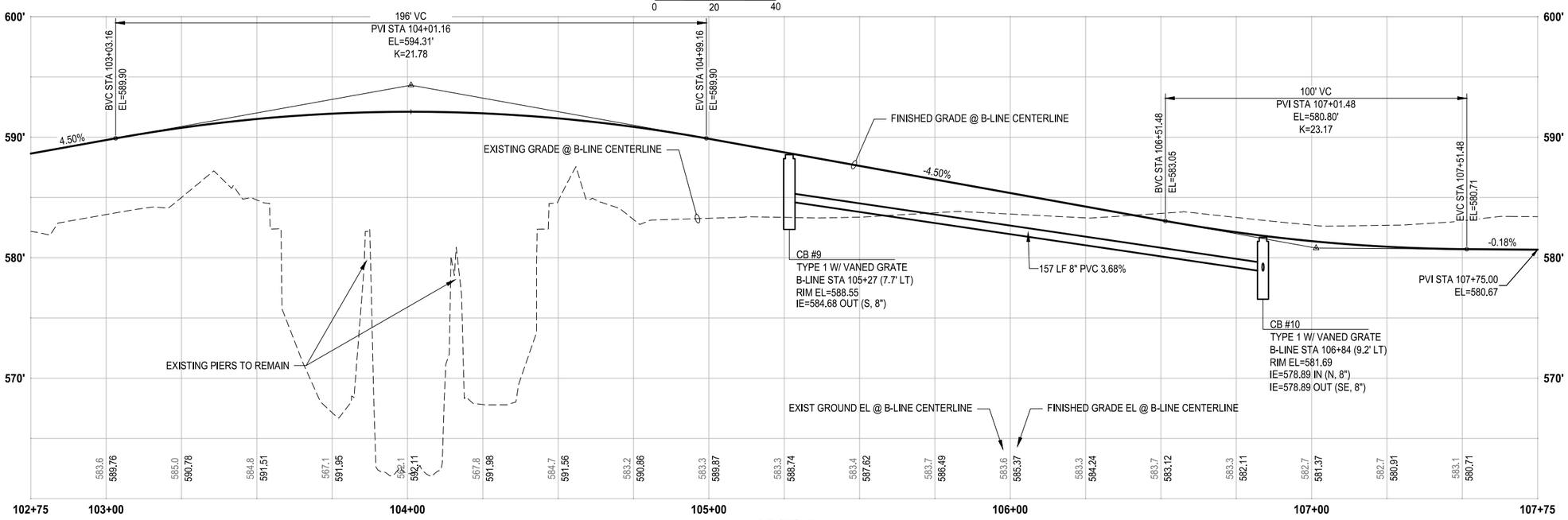

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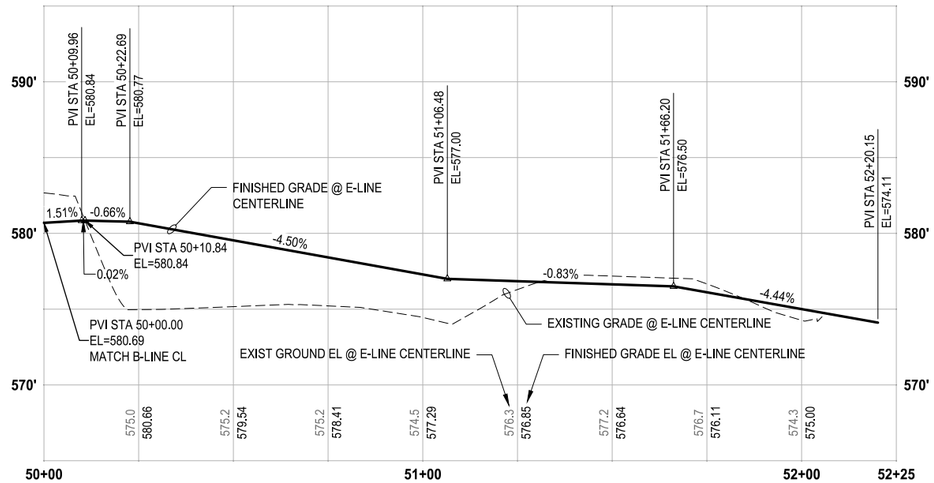
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS

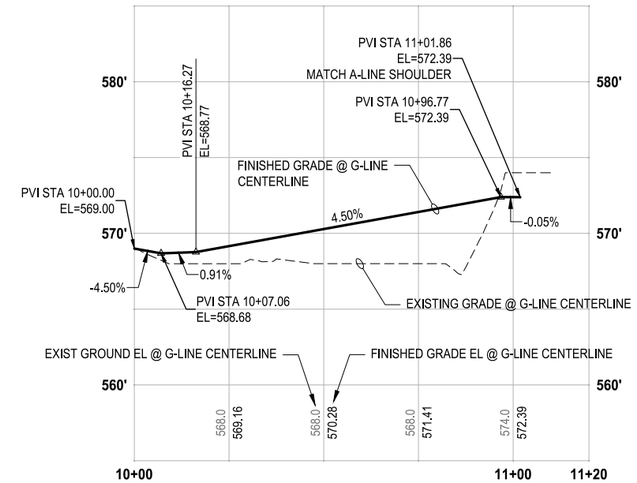
SHEET **29** OF **71** SHEETS

C12



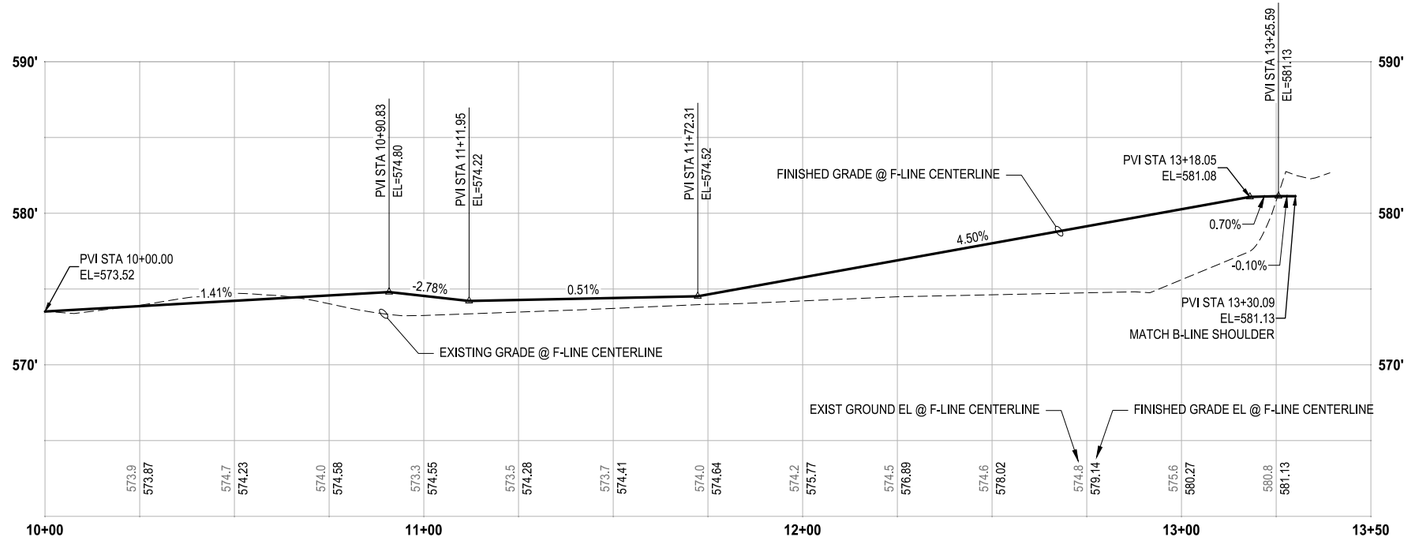
E-LINE PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



G-LINE PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



F-LINE PROFILE

HORIZ: 1"=20'
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60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
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APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATHERSON
STATE OF WASHINGTON
23005920
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

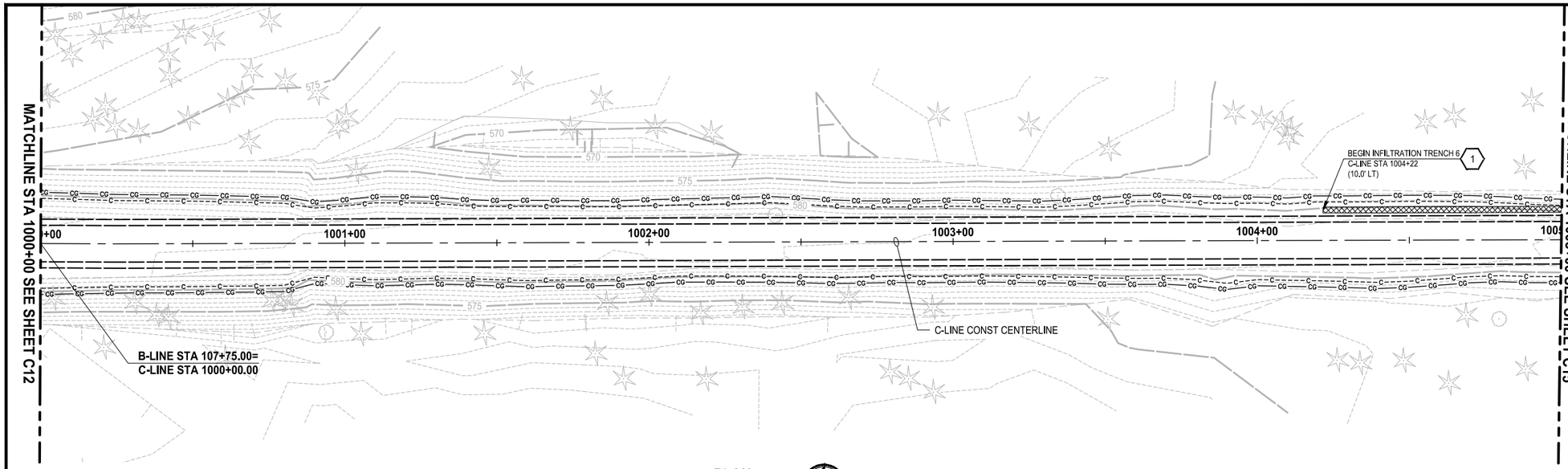
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS

SHEET **30** OF **71** SHEETS

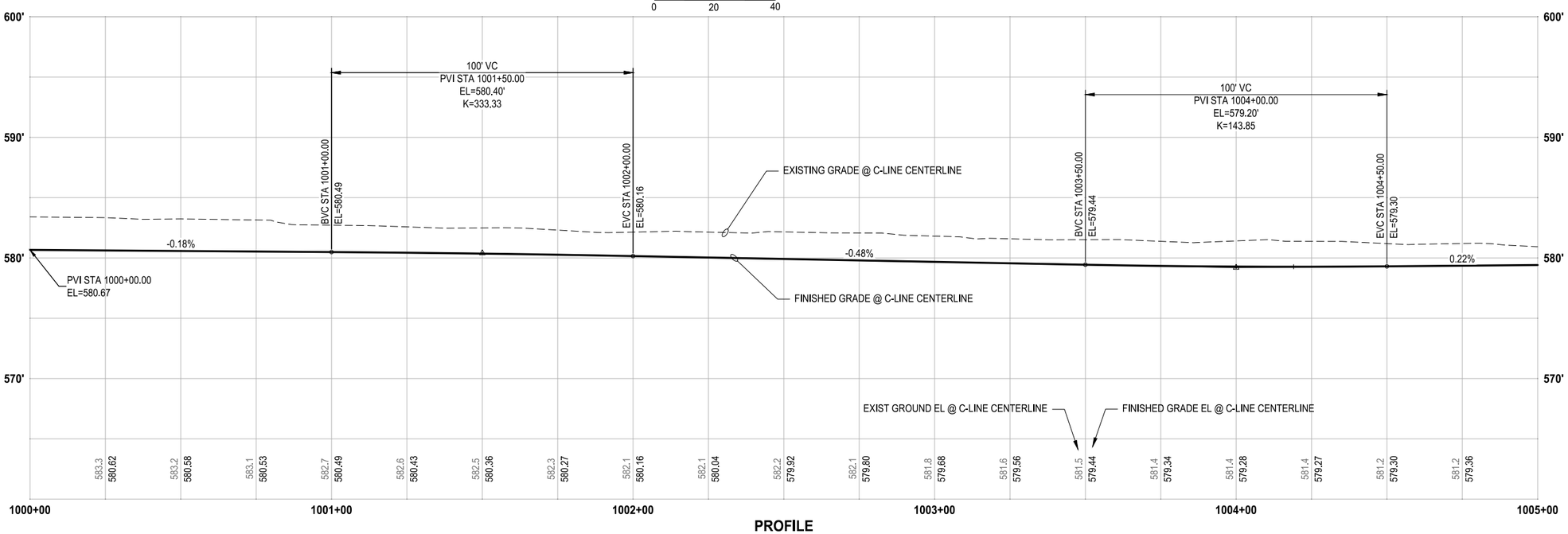
C13



PLAN

SCALE IN FEET

0 20 40



PROFILE

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CONSTRUCTION NOTES:

1. 4-FT COATED CHAIN LINK FENCE WITH TOP RAIL PER KING COUNTY STD DWG #5-002.
2. STRUCTURAL EARTH WALL, SEE WA SHEETS FOR DETAILS.
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STORMWATER CONSTRUCTION NOTES:

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LEGEND:

- HMA CL. 3/8" PG 64-22
- INFILTRATION TRENCH
- LOW PROFILE RESTORATION, TO BE DEVELOPED IN FUTURE SUBMITTAL
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- MC MC MITIGATION CLEARING LIMITS

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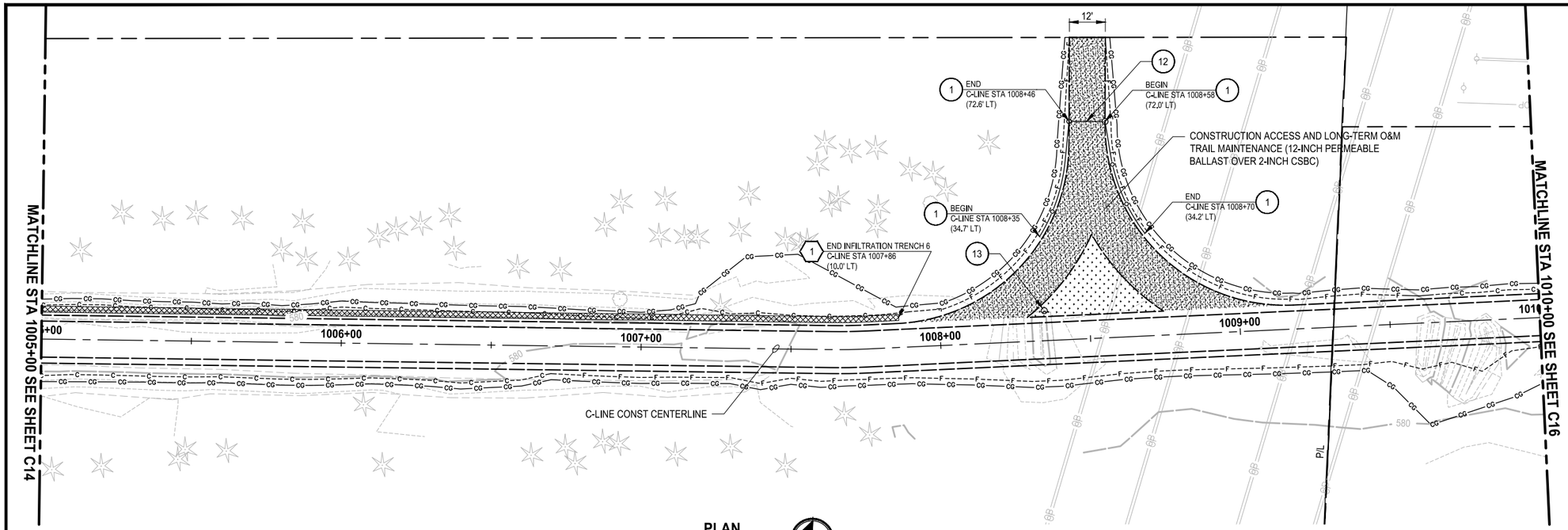

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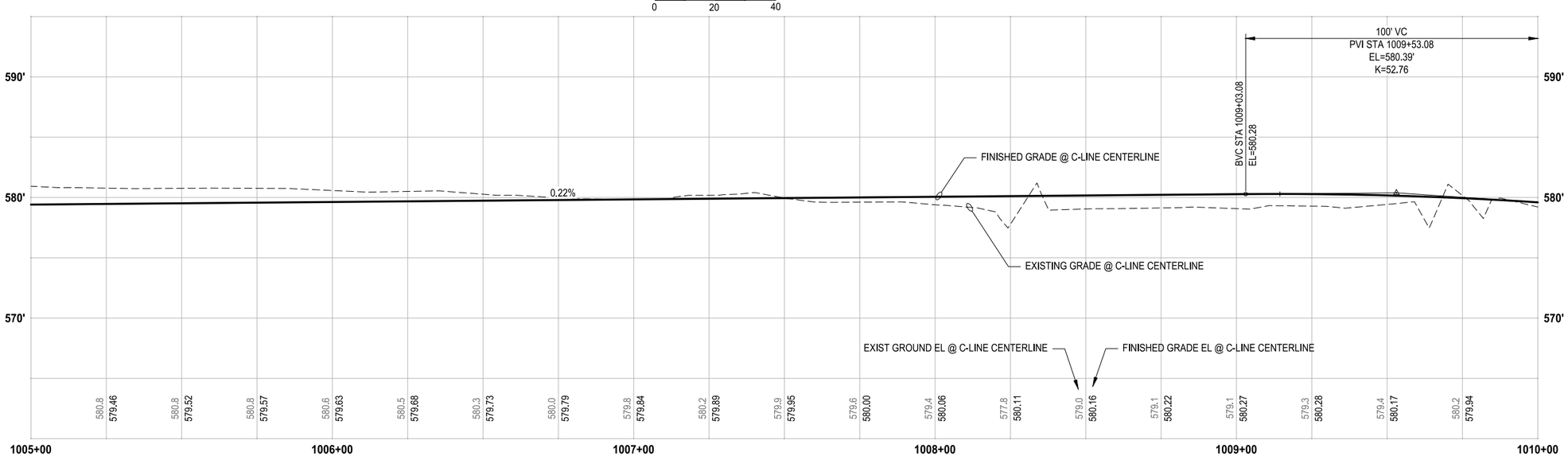

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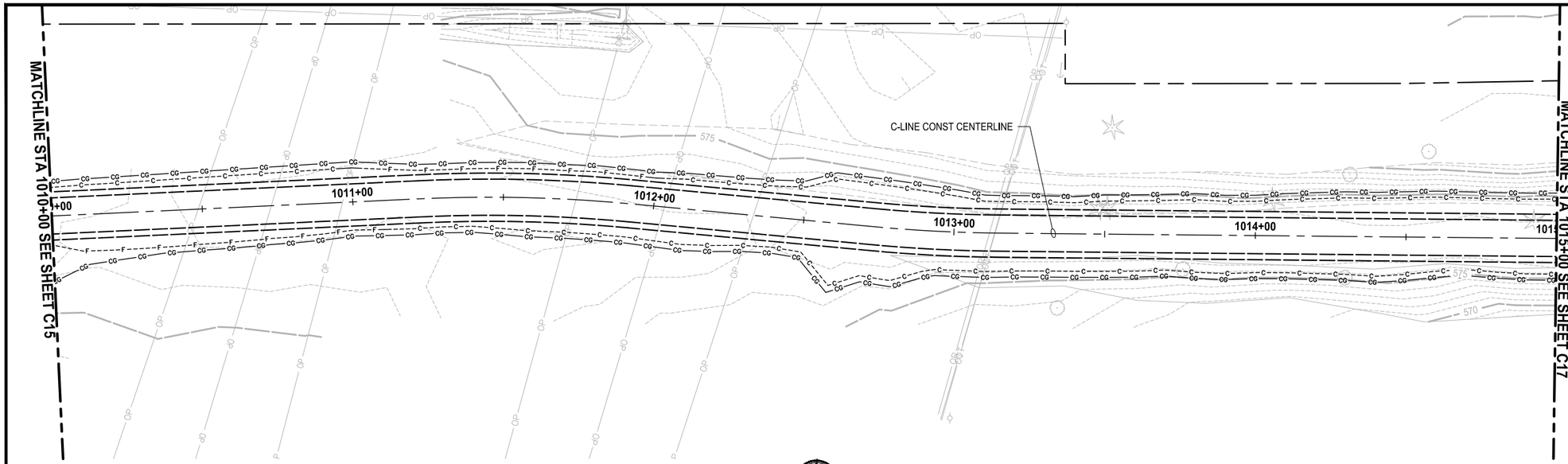

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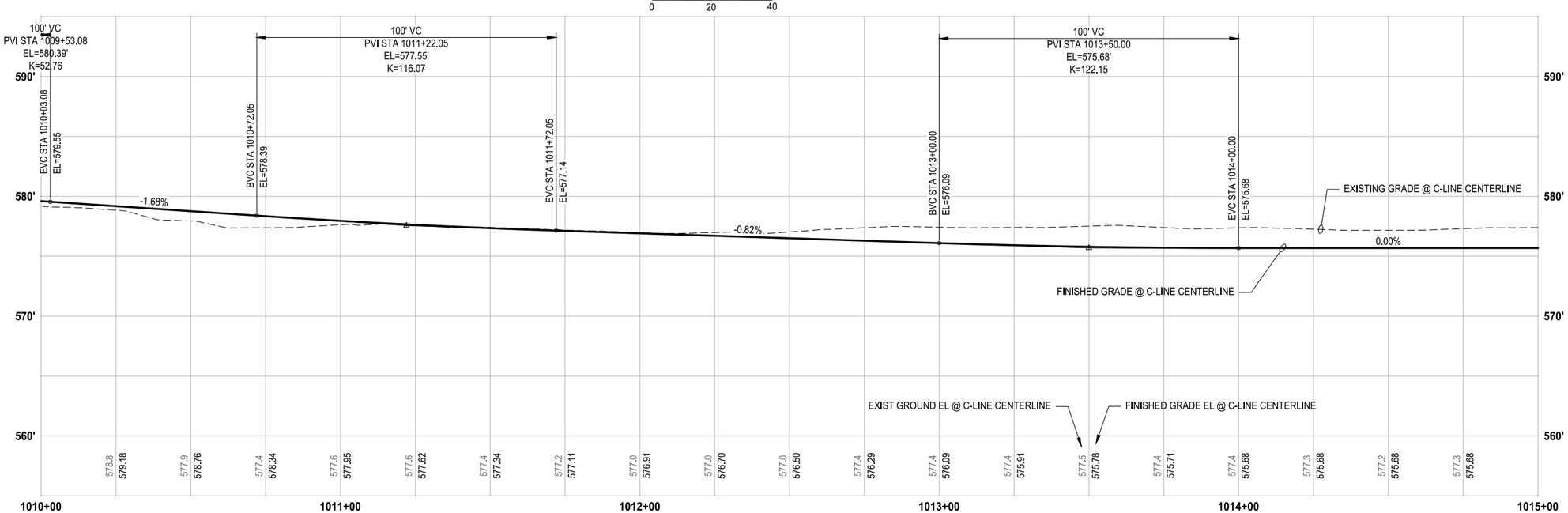

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CIVIL PLANS

PLAN

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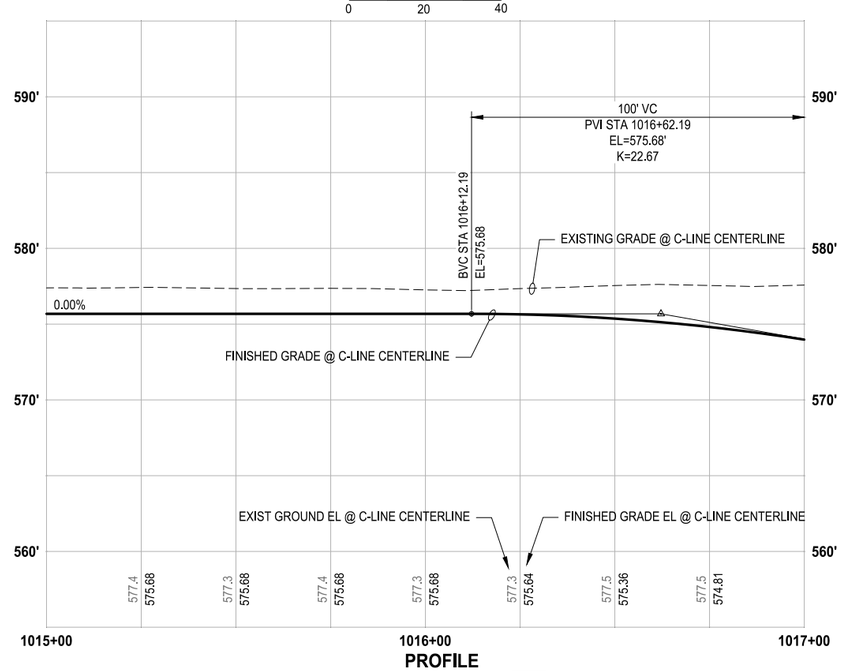

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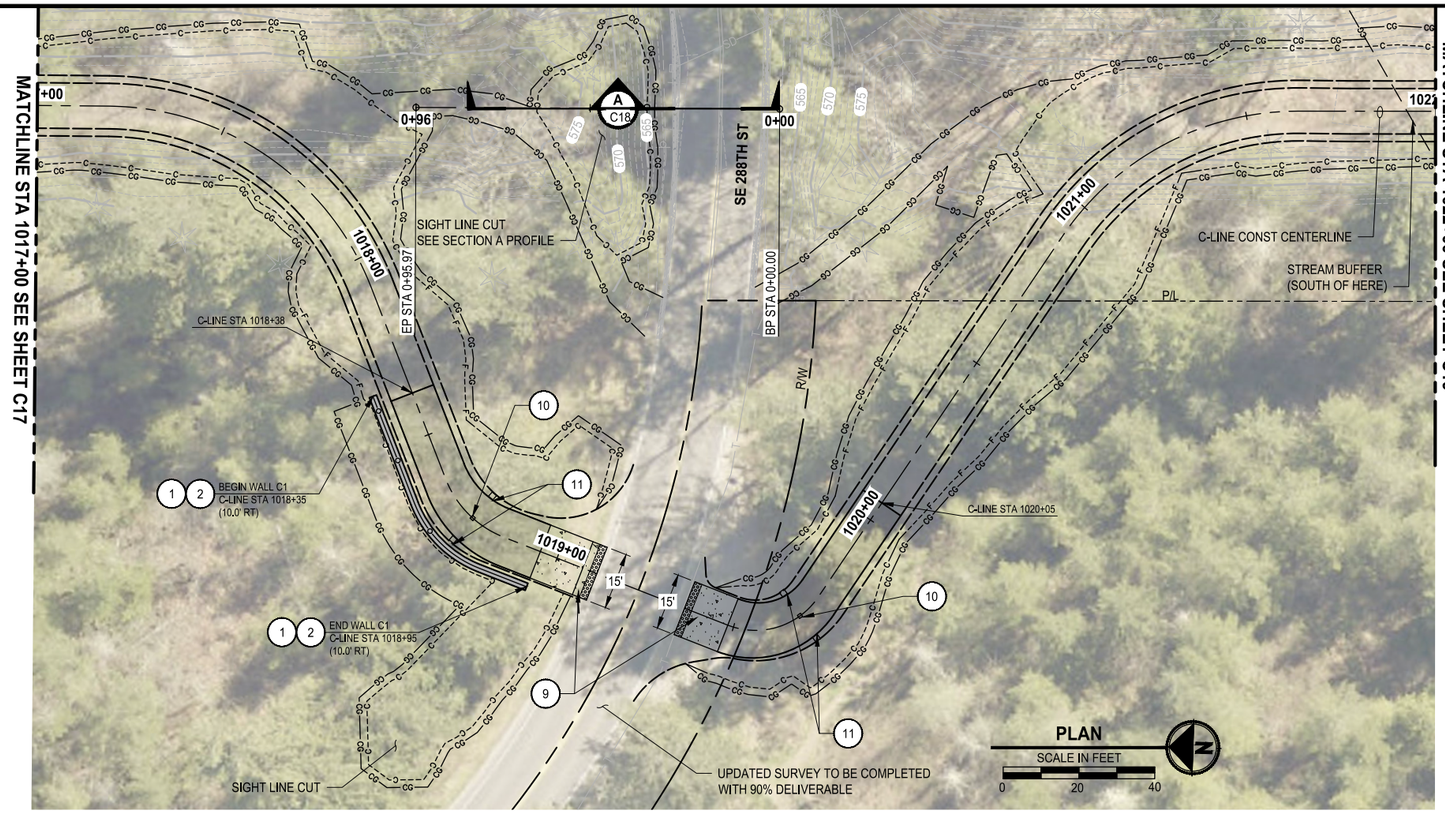

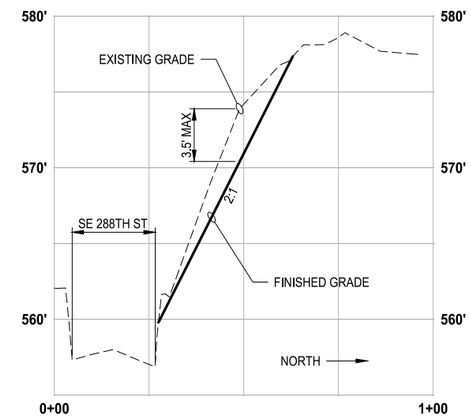

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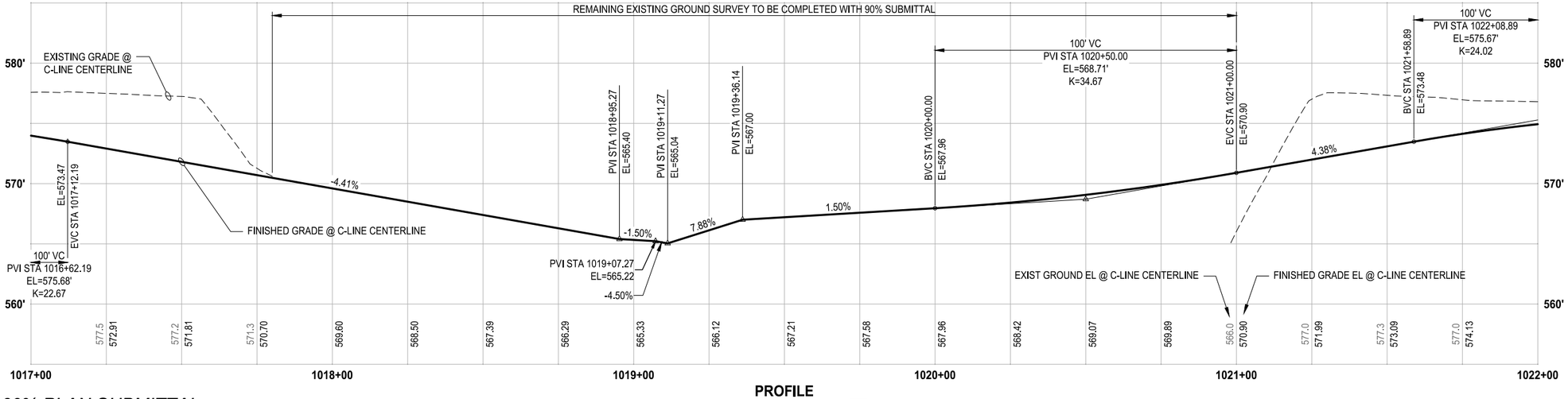

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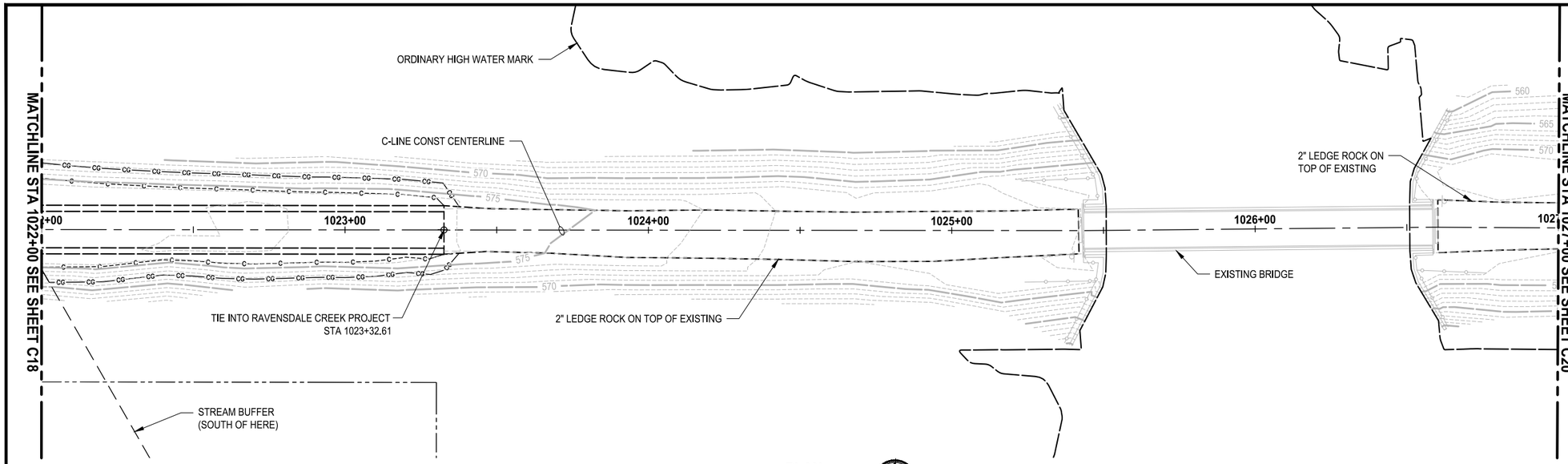
SHEET **35** OF **71** SHEETS

C18



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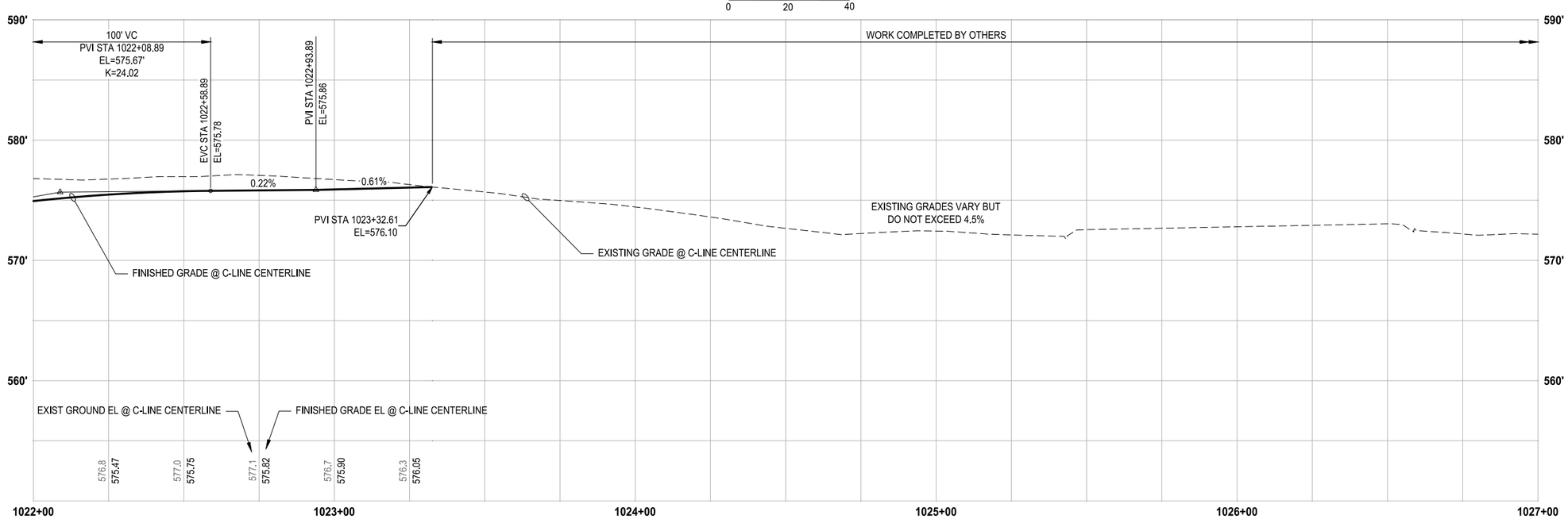

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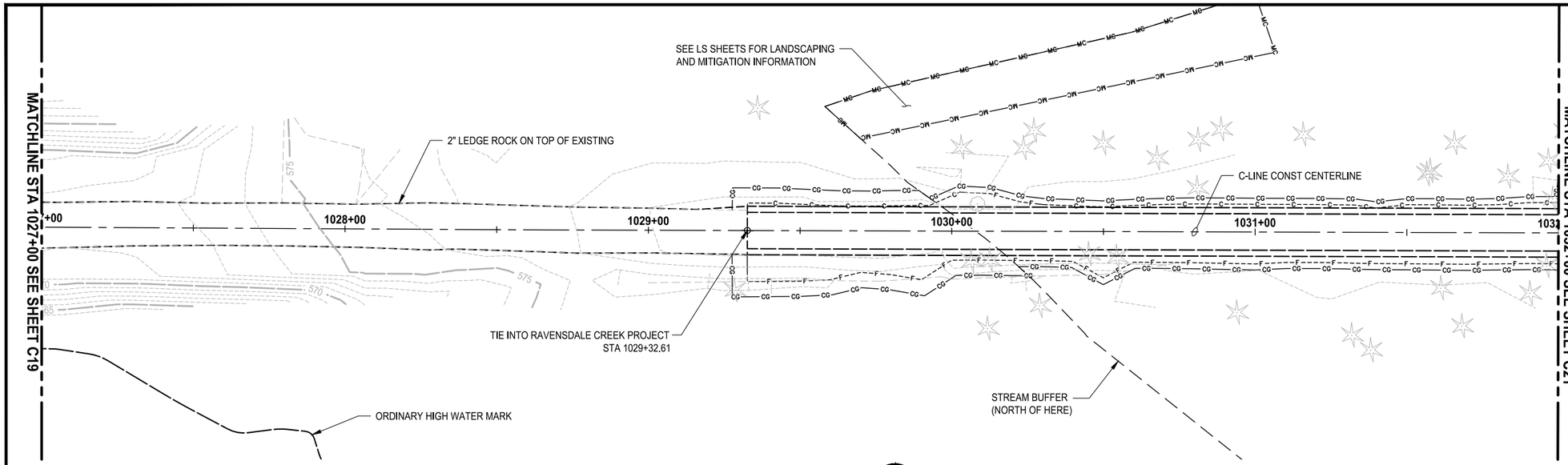
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CIVIL PLANS

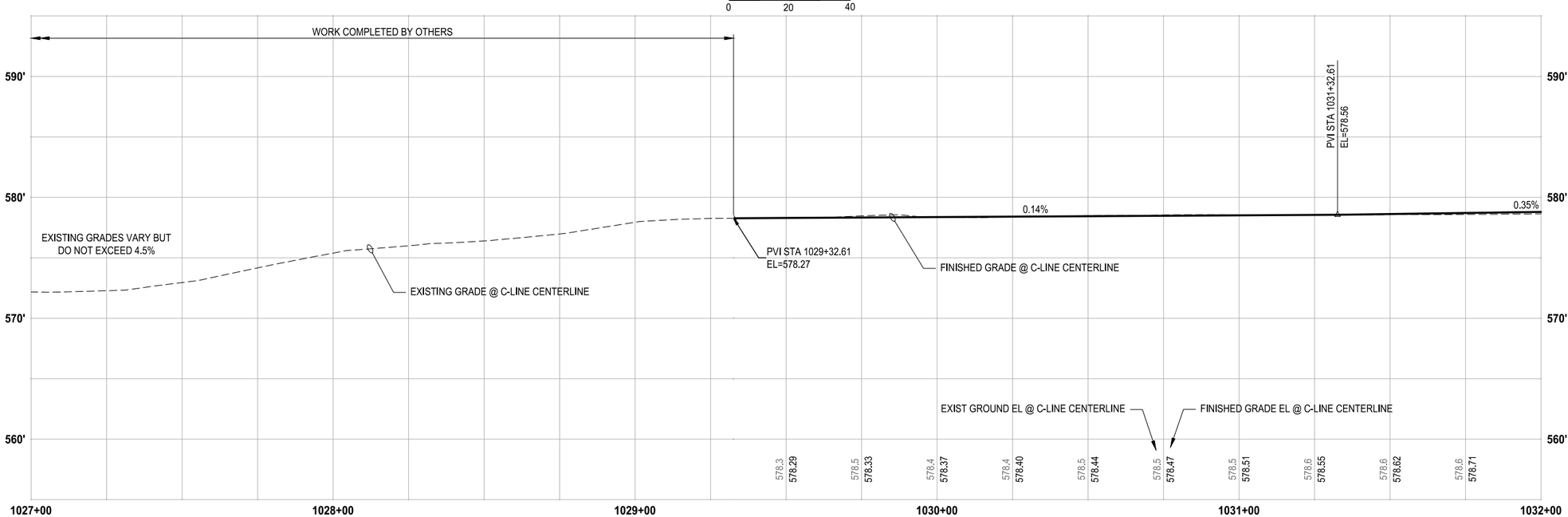
SHEET **36** OF **71** SHEETS

C19



PLAN

SCALE IN FEET 0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES:

1. 4-FT COATED CHAIN LINK FENCE WITH TOP RAIL PER KING COUNTY STD DWG #5-002.
2. STRUCTURAL EARTH WALL, SEE WA SHEETS FOR DETAILS.
3. BRICK MEDIAN.
4. CEMENT CONC. TRAFFIC CURB AND GUTTER OR CEMENT CONC. TRAFFIC CURB PER WSDOT STD PLAN F-10.12.
5. CEMENT CONC. SIDEWALK PER WSDOT STD PLAN F-30.10.
6. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3 PER WSDOT STD PLAN F-80.10.
7. COMBINATION CURB RAMP PER WSDOT STD PLAN F-40.14.
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10. REMOVABLE BOLLARD PER KING COUNTY STD DWG #5-011 (UNPUBLISHED TO DATE).
11. FIXED TIMBER BOLLARD PER KING COUNTY STD DWG #5-009 (UNPUBLISHED TO DATE).
12. 12 FT SWING GATE-DEEP FOUNDATION PER SHEET DD1.
13. INSTALL WASTE RECEPTACLE WITH MUTT MITT.
14. TWO RAIL FENCE PER KING COUNTY STD DWG #5-001A (UNPUBLISHED TO DATE).
15. CEMENT CONC. PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12.

STORMWATER CONSTRUCTION NOTES:

1. INFILTRATION TRENCH, SEE DETAIL 1, SHEET SD2
2. INSTALL STORM CONVEYANCE SYSTEM, SEE THIS SHEET AND SD SHEETS FOR PROFILES AND GENERAL STORMWATER NOTES

LEGEND:

- HMA CL. 3/8" PG 64-22
- INFILTRATION TRENCH
- LOW PROFILE RESTORATION, TO BE DEVELOPED IN FUTURE SUBMITTAL
- CEMENT CONCRETE
- —MC—MC— MITIGATION CLEARING LIMITS

811 KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG. (UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATHESON STATE OF WASHINGTON 23005920 REGISTERED PROFESSIONAL ENGINEER
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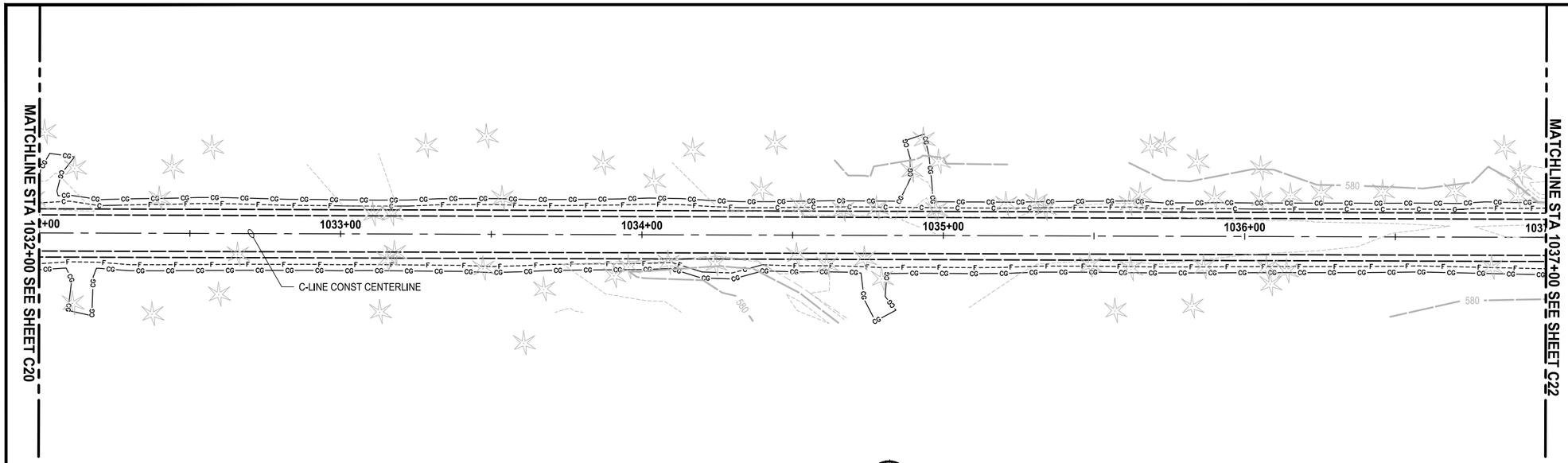
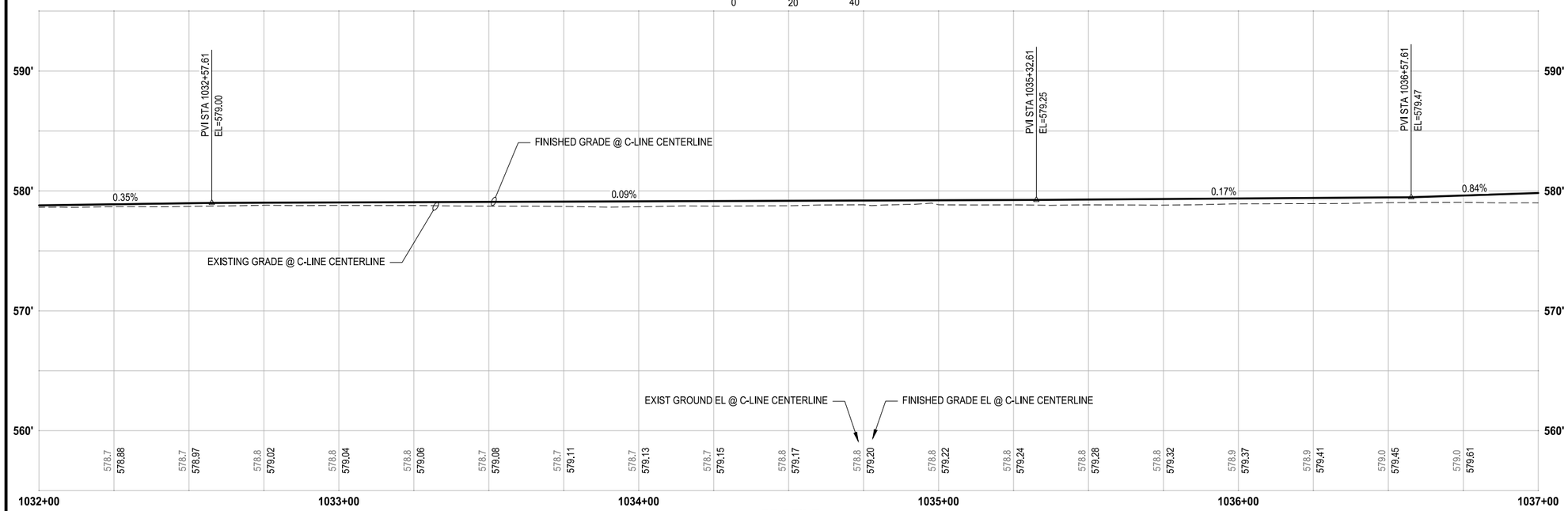
CIVIL PLANS



PLAN

SCALE IN FEET

0 20 40



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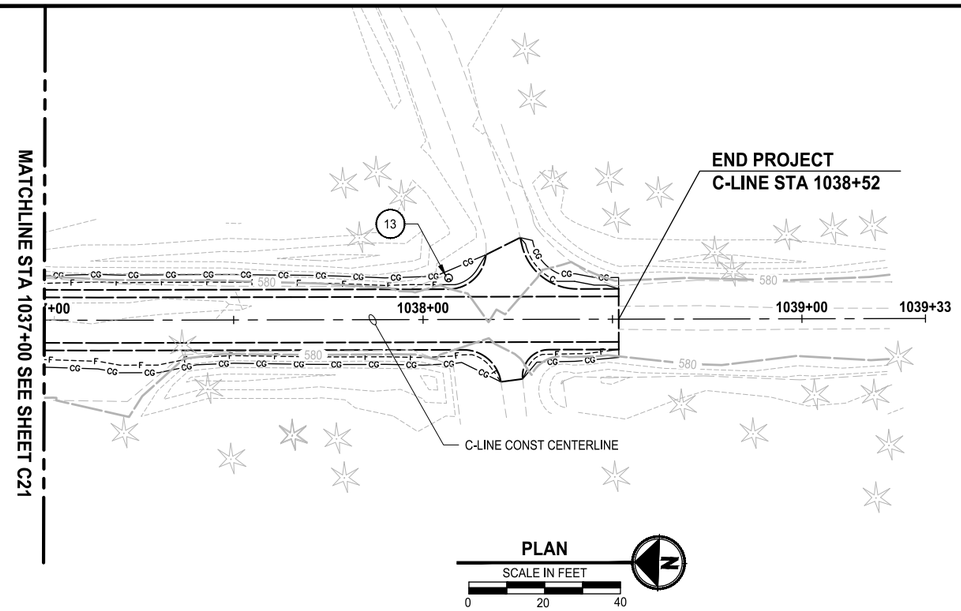
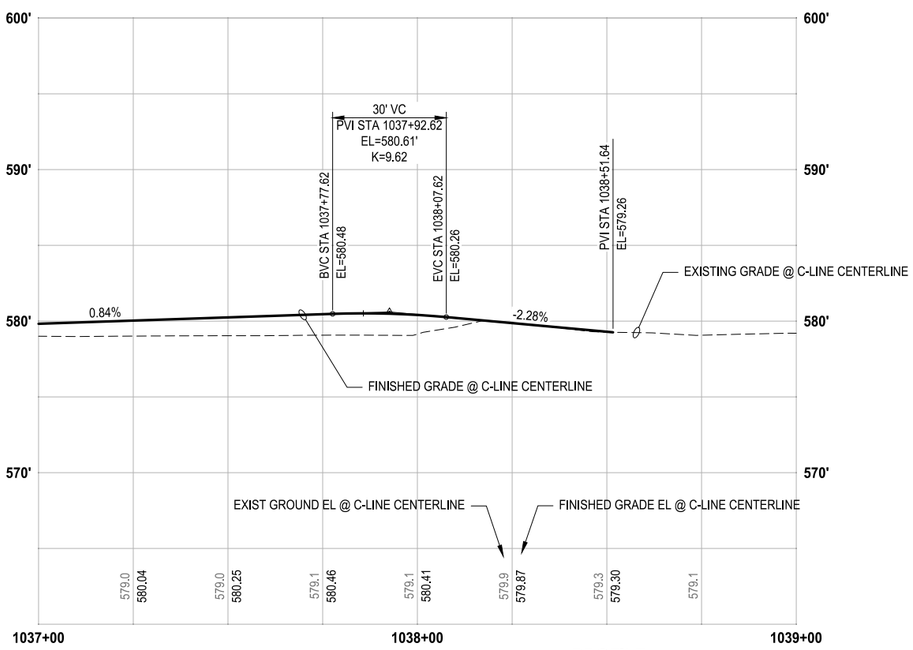
CIVIL PLANS

SHEET **38** OF **71** SHEETS

C21





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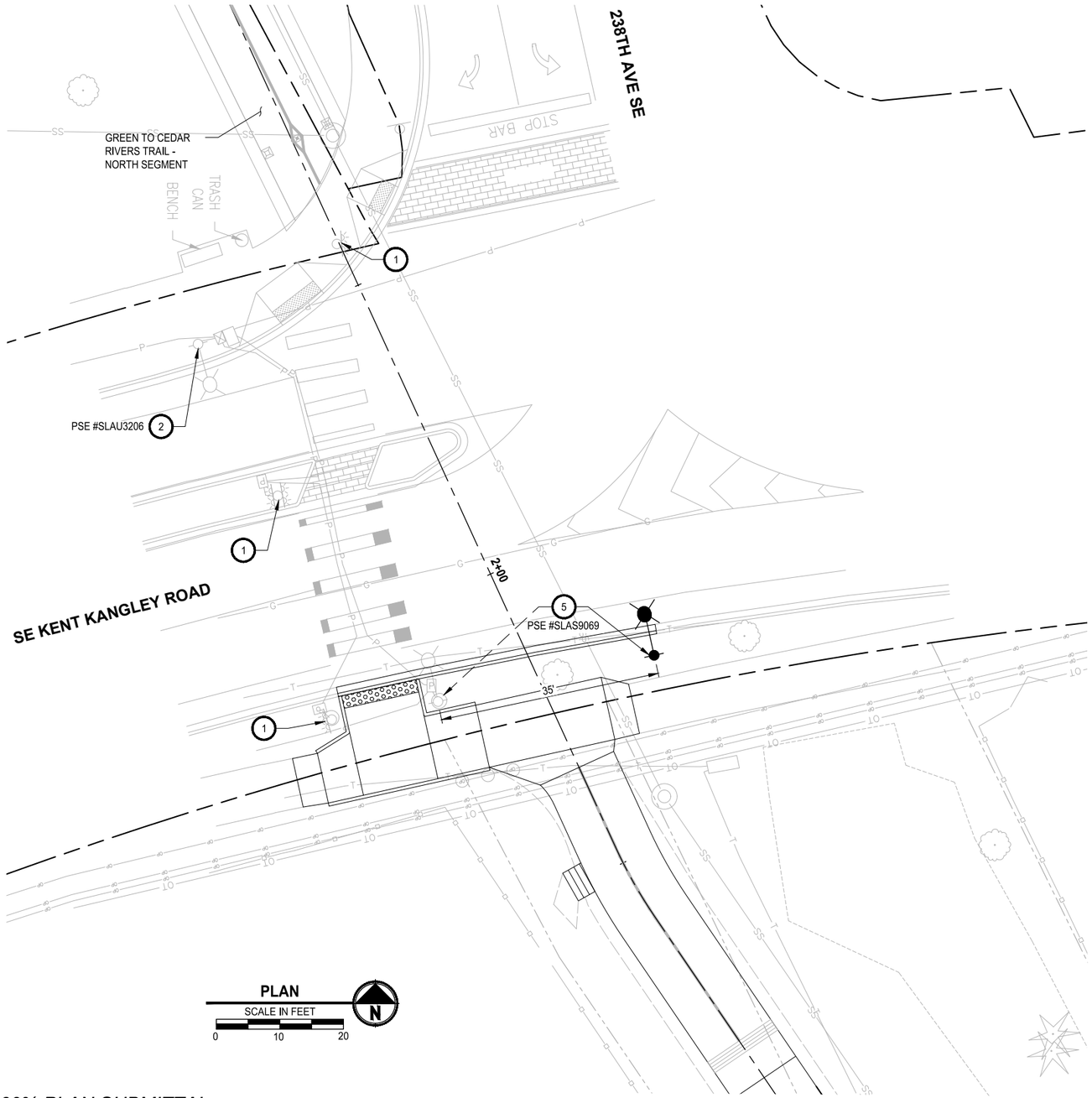

GENERAL NOTES:

1. ALL SIGNAL ELECTRICAL MATERIALS AND INSTALLATION PROCEDURES WITHIN THE WSDOT RIGHT OF WAY AT KENT KANGLEY ROAD (SR516) AND MAPLE VALLEY BLACK DIAMOND ROAD (SR169) SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND SPECIFICATIONS.
2. ALL SIGNAL AND ELECTRICAL MATERIALS, PRACTICES AND INSTALLATION PROCEDURES OUTSIDE OF WSDOT RIGHT OF WAY SHALL MEET LOCAL JURISDICTION STANDARDS AND THE SPECIAL PROVISIONS FOR THIS PROJECT. LOCAL JURISDICTIONS INCLUDE CITY OF MAPLE VALLEY AND KING COUNTY.
3. WHERE APPLICABLE, THE TOPS OF SIGNAL POLE FOUNDATIONS SHALL BE 4 IN. BELOW FINISHED SIDEWALK GRADE WITH HEIGHT OF ANCHOR BOLTS SET TO ACCOMMODATE SUBSEQUENT SEPARATE SIDEWALK POUR OVER TOP OF FOUNDATION.
4. JUNCTION BOX AND CONDUIT LOCATIONS ARE SHOWN SCHEMATICALLY. ALL JUNCTION BOXES SHALL BE INSTALLED OUTSIDE OF RAMP LIMITS.
5. ALL NEW JUNCTION BOXES SHALL HAVE ADA COMPLIANT NON-SLIP LIDS.
6. ELECTRICAL TRENCHES SHALL BE PER SHEET E6, DETAIL 3.
7. ALL EXISTING JUNCTION BOXES WITHIN LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE.
8. SEE SHEET E7, DETAIL 4 FOR TYPICAL APS WIRING.
9. FACE OF PUSHBUTTONS SHALL BE ALIGNED PARALLEL WITH DIRECTION OF CROSSWALK STRIPING.
10. ALL REMOVED SIGNAL HARDWARE FROM WSDOT SIGNALS MUST BE RETURNED TO WSDOT.

CONSTRUCTION NOTES:

1. PROTECT EXISTING RRFB POLE AND ASSOCIATED EQUIPMENT TO REMAIN.
2. PROTECT EXISTING LIGHT POLE TO REMAIN.
5. EXISTING PSE OWNED LIGHT POLE TO BE RELOCATED BY PSE.

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MARC EDWIN KENDALL
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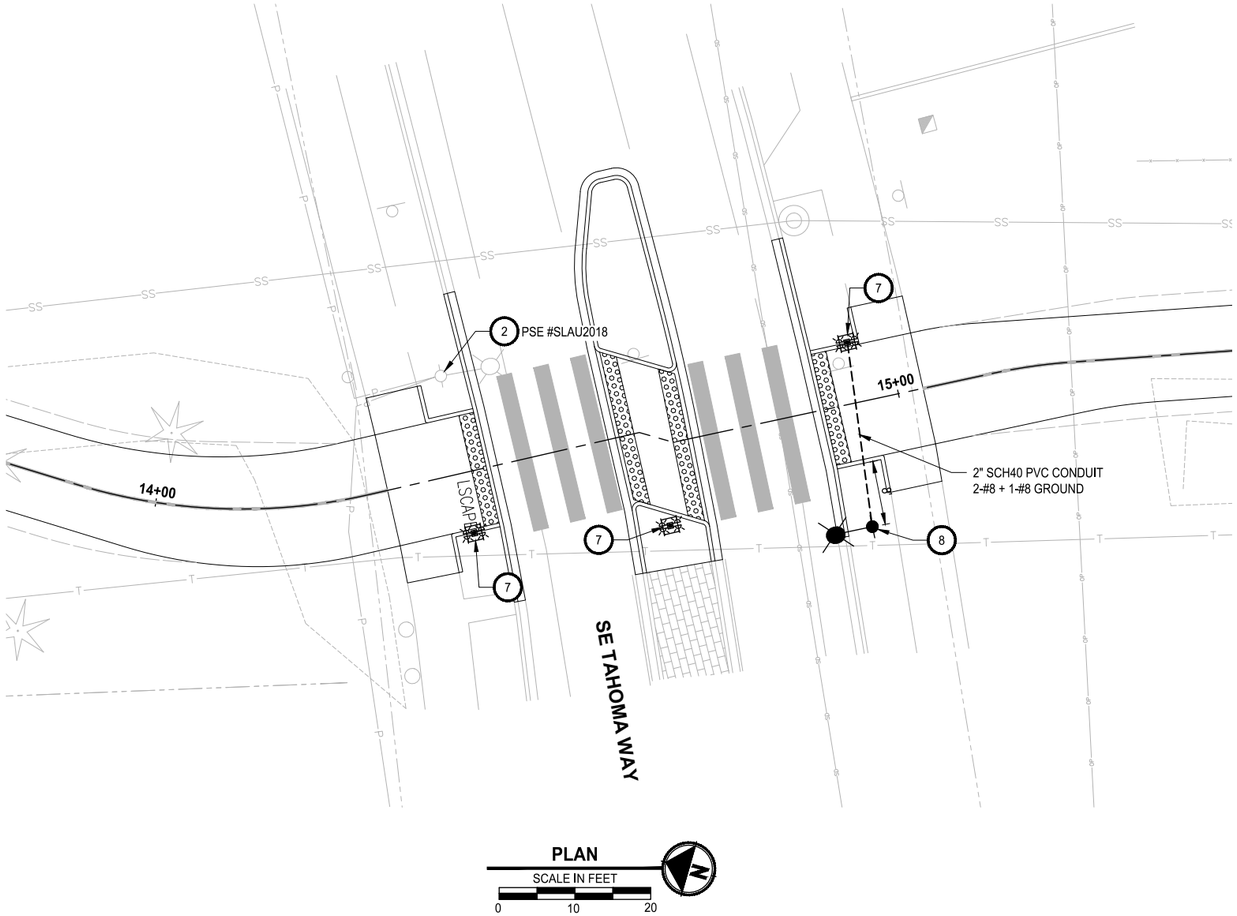
SIGNAL AND ILLUMINATION PLAN

SHEET **40** OF **71** SHEETS

E1



GENERAL NOTES:

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CONSTRUCTION NOTES:

2. PROTECT EXISTING LIGHT POLE TO REMAIN.

7. CONSTRUCT RRFB POLE FOUNDATION AND FURNISH AND INSTALL SOLAR RRFB ASSEMBLY PER DETAIL 1, SHEET E6.

8. CONSTRUCT LIGHT STANDARD FOUNDATION TYPE A PER WSDOT STANDARD PLAN J-28.30, EXCEPT MODIFY ANCHOR BOLTS TO MATCH PEDESTRIAN SCALE LIGHT POLE. FURNISH AND INSTALL MAPLE VALLEY PEDESTRIAN SCALE LIGHT POLE ASSEMBLY PER DETAIL 5, SHEET E7. FIXTURE MODEL SHALL BE CYCLONE MAJESTA MODEL CO12P1B-DP3AR-T3-P30-30K-MVOLT-10KV-ADH-PT-DG-TX (58 WATT, 6,800 LUMEN, 3000K CCT). LIGHT FIXTURE SHALL BE POWERED BY SOLAR RRFB ASSEMBLY.

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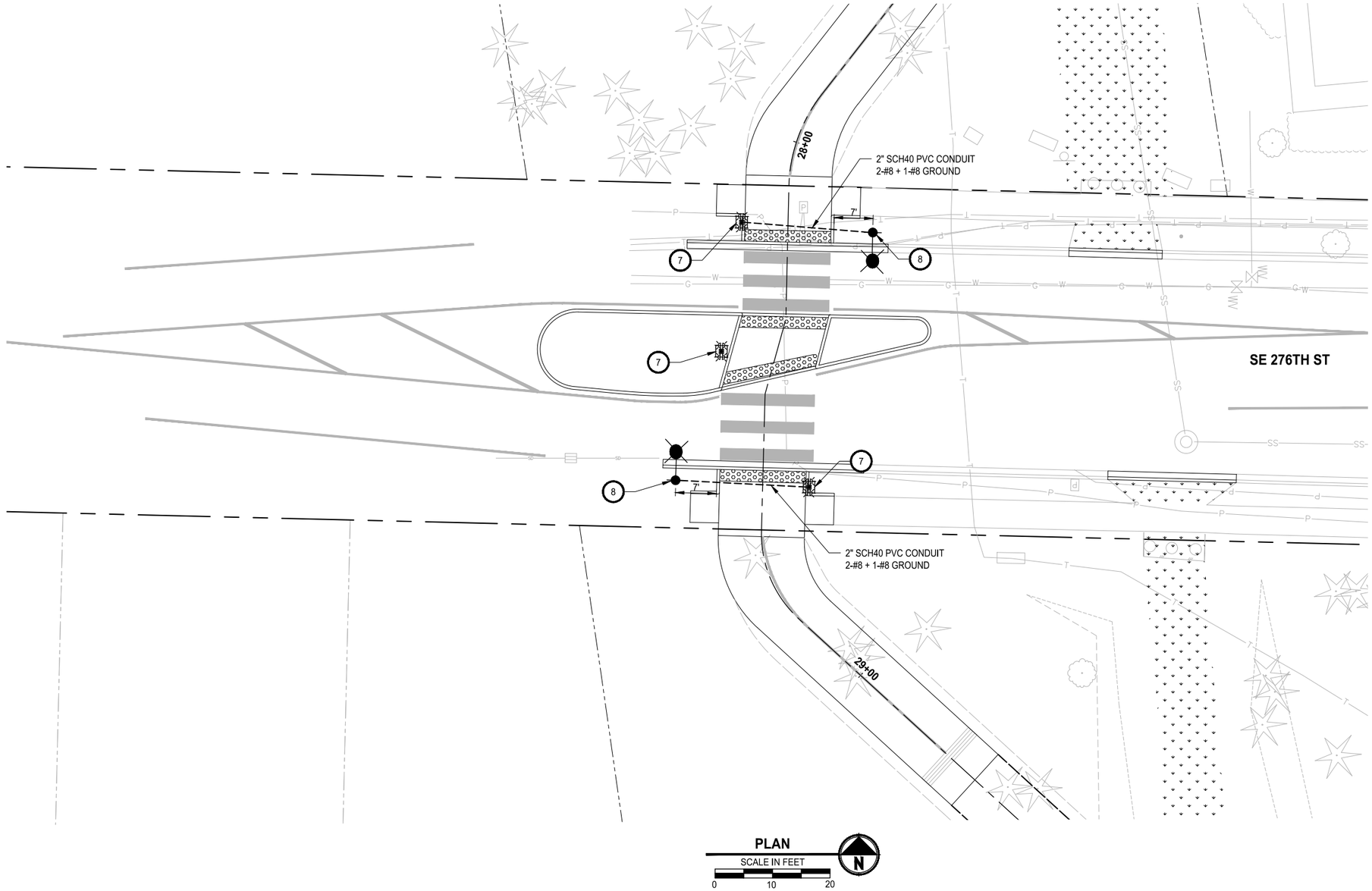
SIGNAL AND ILLUMINATION PLAN

SHEET **41** OF **71** SHEETS

E2



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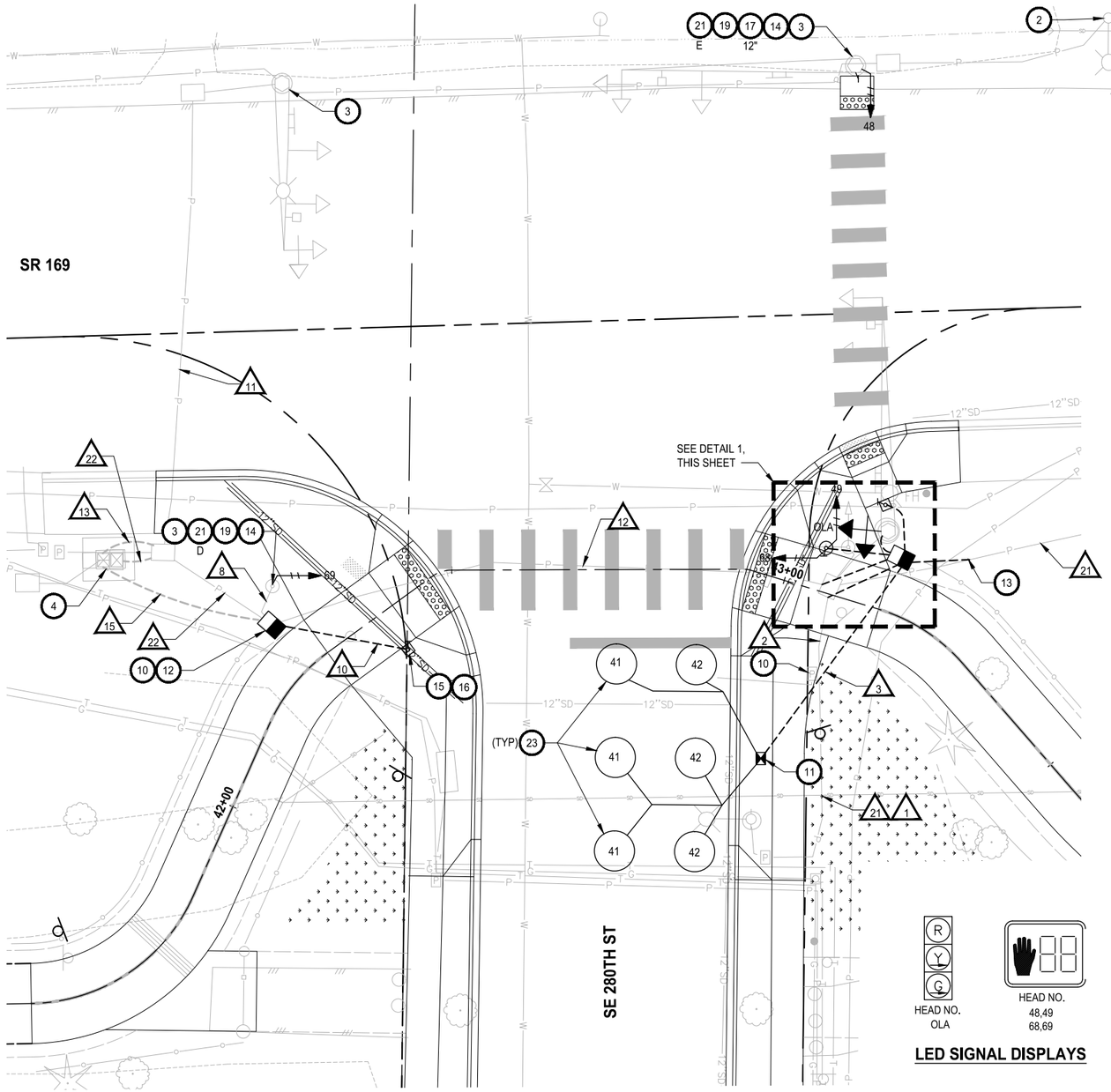
SIGNAL AND ILLUMINATION PLAN

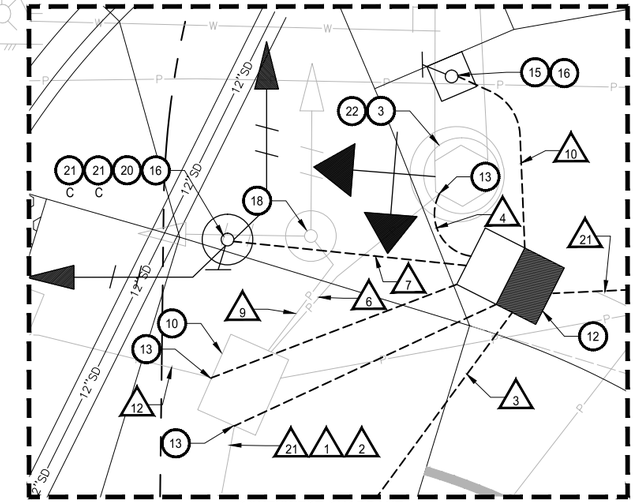
SHEET **42** OF **71** SHEETS

E3



PLAN

SCALE IN FEET 0 10 20



SOUTHWEST QUADRANT DETAIL 1

NO SCALE

HEAD NO. OLA

HEAD NO. 48,49 68,69

LED SIGNAL DISPLAYS

CONDUIT AND WIRE SCHEDULE

WIRE RUN #	CONDUIT SIZE	VEHICLE HEAD	PEDESTRIAN HEAD	PPB		EVP DETECTOR	VEHICLE LOOPS	POWER ILLUMINATION	SPARE
		5C	5C	2C	4C	3C/S	2C	EXISTING	
1	[2"]						<1>, 1		
2	<2">						<2>		
3	2"						2		
4	[3"]	{{1}}, 1				{{1}}			
6	[3"]	{1}				{1}			
	[2"]								X
7	2"		2	1	1				
8	[2"]		[1]	<1>	1				
9	<3">		<2>	<2>					
10	2"			1	1				
11	[3"]	[3]	[1]	[1]		[2]	[6]		
	[2"]							[2 x #8]	
	[3"]								X
12	[3"]	{1}	<2>, 2	<2>, 2		{1}	<3>, 3		
	[2"]							{2 x #8}	
	[3"]	1							
13	[3"]	[3]	[1]	[1]		[2]	[8]		
	[3"]								X
15	[3"]	[1]	[1], <2>, 2	<3>, 3		[1]	<3>, 3		
	[2"]	1							
21	[2"]							{2 x #8}	
22	[2"]							[2 x #8]	

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).

[#] EXISTING CONDUCTOR(S) OR CONDUIT(S) TO REMAIN.

<#> EXISTING CONDUCTOR(S) OR CONDUIT(S) TO BE REMOVED.

{#} EXISTING CONDUCTOR(S) TO BE TEMPORARILY REMOVED AND REINSTALLED THROUGH NEW OR REROUTED CONDUIT.

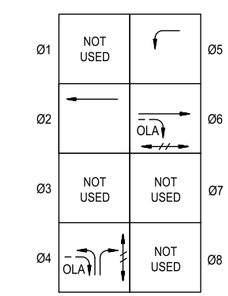
{{#}} EXISTING CONDUCTOR(S) TO BE REINSTALLED FROM {#} CONDUIT PATH.

GENERAL NOTES:

1. FOR ADDITIONAL GENERAL NOTES, SEE SHEET E1.
2. ALL WORK AT INTERSECTION SHALL MEET WSDOT STANDARDS.
3. ALL REMOVED SIGNAL HARDWARE SHALL BE RETURNED TO WSDOT.

CONSTRUCTION NOTES:

2. PROTECT EXISTING LIGHT POLE TO REMAIN.
3. PROTECT EXISTING SIGNAL STANDARD TO REMAIN.
4. PROTECT EXISTING SERVICE CABINET AND SIGNAL CONTROLLER CABINET TO REMAIN.
10. REMOVE EXISTING JUNCTION BOX.
11. FURNISH AND INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 1, PER WSDOT STANDARD PLAN J-40.10.
12. FURNISH AND INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 8, PER WSDOT STANDARD PLAN J-40.30.
13. INTERCEPT EXISTING CONDUIT(S) AND EXTEND TO NEW JUNCTION BOX. RESTORE WIRING PER WIRE/CONDUIT SCHEDULE.
14. REMOVE EXISTING PUSHBUTTON FROM SIGNAL POLE. REPAIR HOLES PER DETAIL 6, SHEET E7.
15. CONSTRUCT ACCESSIBLE PEDESTRIAN PUSHBUTTON POST (PPB) AND FOUNDATION PER WSDOT STANDARD PLAN J-20.10.
16. FURNISH AND INSTALL APS ASSEMBLY ON SIGNAL STANDARD OR PPB POST.
17. FURNISH AND INSTALL APS PPB EXTENSION ON SIGNAL STANDARD PER DETAIL 2, SHEET E6. LENGTH OF EXTENSION AS NOTED. INSTALL APS ASSEMBLY ON EXTENSION.
18. REMOVE EXISTING TYPE PS POLE, ATTACHED EQUIPMENT AND FOUNDATION. ABANDON CONDUIT(S) AND REMOVE WIRE(S) TO THE CONTROLLER CABINET.
19. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD.
20. CONSTRUCT TYPE 1 SIGNAL STANDARD FOUNDATION PER WSDOT STANDARD PLAN J-21.10. INSTALL TYPE PS SIGNAL STANDARD WITH SLIP BASE PER WSDOT STANDARD PLAN J-20.16.
21. INSTALL COUNTDOWN LED PEDESTRIAN SIGNAL HEAD ON NEW MOUNT (MOUNT TYPE AS NOTED).
22. FURNISH AND INSTALL RIGHT-TURN SIGNAL HEAD (TYPE K MOUNT) ON SIGNAL STANDARD. FURNISH AND INSTALL (30"x36") NO TURN ON RED (R10-11a) SIGN BELOW SIGNAL HEAD.
23. INSTALL TYPE 3S (STOP LINE) INDUCTION LOOP ARRAY PER WSDOT STANDARD PLAN J-50.12.



PROTECTED VEHICLE MOVEMENT
PERMISSIVE VEHICLE MOVEMENT
PEDESTRIAN MOVEMENT

OLA=Ø4, Ø6 (MINUS PED)

PHASE DIAGRAM

811 KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG. (UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

MARC EDWIN KENNELL STATE OF WASHINGTON 52858 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

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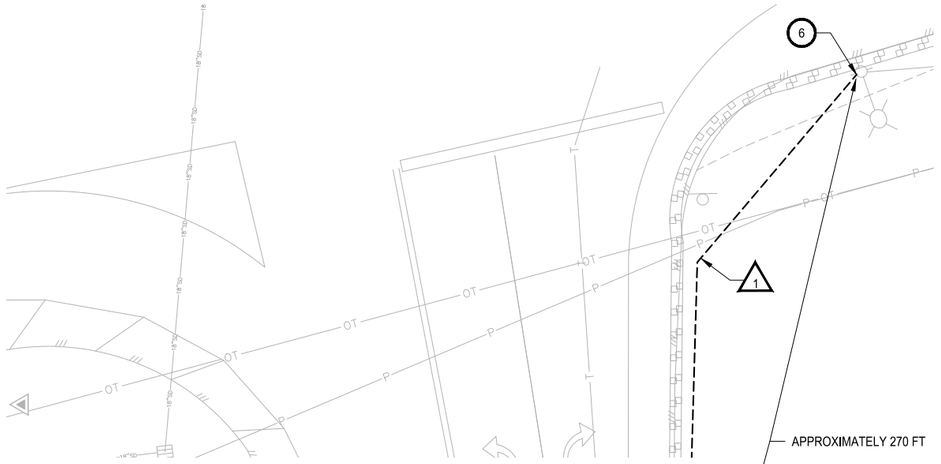
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

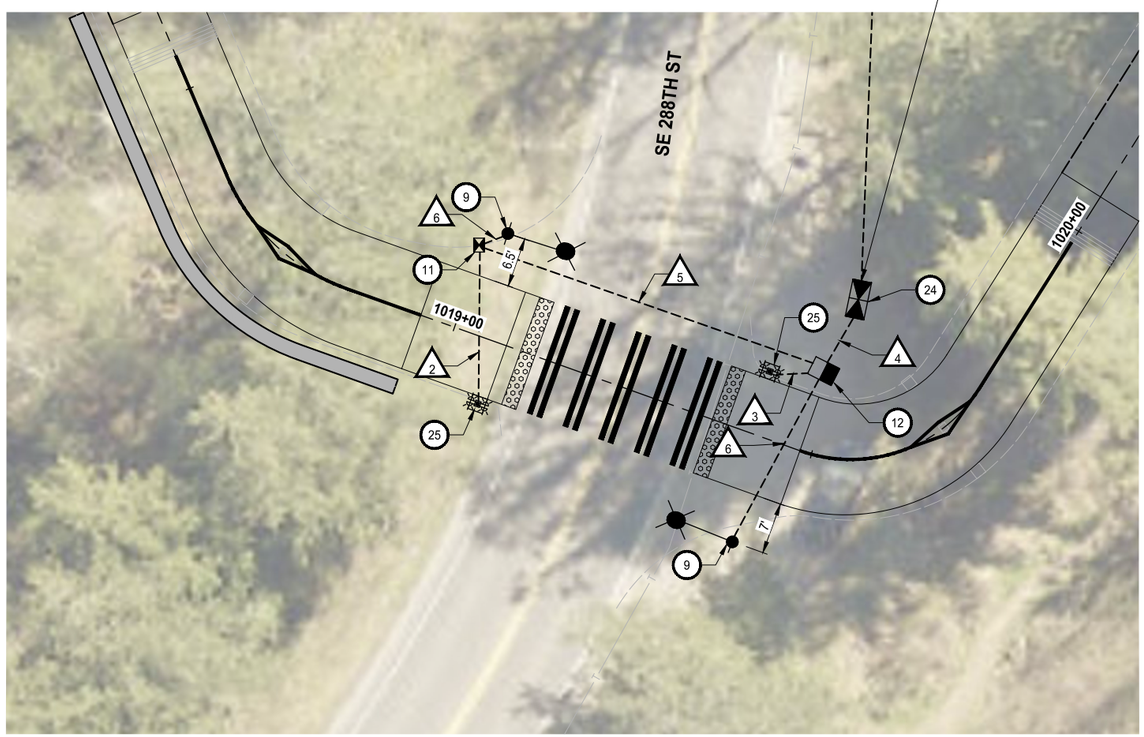
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

SIGNAL AND ILLUMINATION PLAN

SHEET **43** OF **71** SHEETS

E4





PLAN
SCALE IN FEET
0 10 20

CONDUIT AND WIRE SCHEDULE

WIRE RUN #	CONDUIT SIZE	RRFB		POWER	
		WIRE	POWER	ILLUMINATION	SERVICE
1	2"				3 X #2
2	2"	NOTE 3			
3	2"	NOTE 3	2 X #8		
4	2"		2 X #8	2 X #8	
5	2"	NOTE 3		2 X #8	
6	2"			2 X #8	

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. ALL PROPOSED CONDUITS SHALL BE PVC SCHEDULE 80 FOR ROADWAY CROSSINGS AND PVC SCHEDULE 40 FOR ALL OTHER LOCATIONS.
3. RRFB SYSTEM WIRES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:

1. FOR GENERAL NOTES, SEE SHEET E1.

CONSTRUCTION NOTES:

6 PUGET SOUND ENERGY (PSE) UTILITY POLE SERVICE CONNECTION POINT. CONTRACTOR SHALL CONSTRUCT TRENCH AND INSTALL CONDUIT AND CONDUCTORS FROM SERVICE CABINET TO PSE UTILITY POLE. CONSTRUCT RISER 10 FEET UP POLE UNLESS OTHERWISE DIRECTED BY PSE. COIL 30 FEET OF CONDUCTORS AT RISER FOR PSE TO FINISH CONNECTION. CONTRACTOR SHALL COORDINATE WITH PSE TO PROVIDE NEW SERVICE AND CONNECTION PER PSE STANDARDS.

9 CONSTRUCT LIGHT STANDARD FOUNDATION TYPE A PER WSDOT STANDARD PLAN J-28.30. FURNISH AND INSTALL 20 FT MH STEEL LIGHT STANDARD PER WSDOT STD PLAN J-28-10. FIXTURE MODEL SHALL BE LEOTEK GCJ3-30J-MV-30K-3R-GY-070 (49 WATT, 7000 LUMENS, 3000K CCT). LIGHT FIXTURE SHALL BE POWERED BY SOLAR RRFB ASSEMBLY.

11 FURNISH AND INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 1, PER WSDOT STANDARD PLAN J-40.10.

12 FURNISH AND INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 8, PER WSDOT STANDARD PLAN J-40.30.

24 CONSTRUCT FOUNDATION FOR STRUT MOUNT SERVICE CABINET PER WSDOT STANDARD PLAN J-10.10. FURNISH AND INSTALL SERVICE CABINET TYPE B MODIFIED ON FOUNDATION, PER WSDOT STANDARD PLAN J-10.20.

25 CONSTRUCT RRFB POLE FOUNDATION AND FURNISH AND INSTALL WIRED RRFB ASSEMBLY. ASSEMBLY SHALL BE PER DETAIL 1, SHEET E6 WITH THE FOLLOWING EXCEPTIONS:

- A POLE CAP SHALL BE INSTALLED INSTEAD OF THE SOLAR PANEL
- ONLY THE POLE CLOSEST TO THE SERVICE CABINET WILL INCLUDE A CONTROL CABINET
- RRFB SYSTEM SHALL BE WIRED PER MANUFACTURER'S RECOMMENDATIONS

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SOUTH INTERIM SEGMENT A
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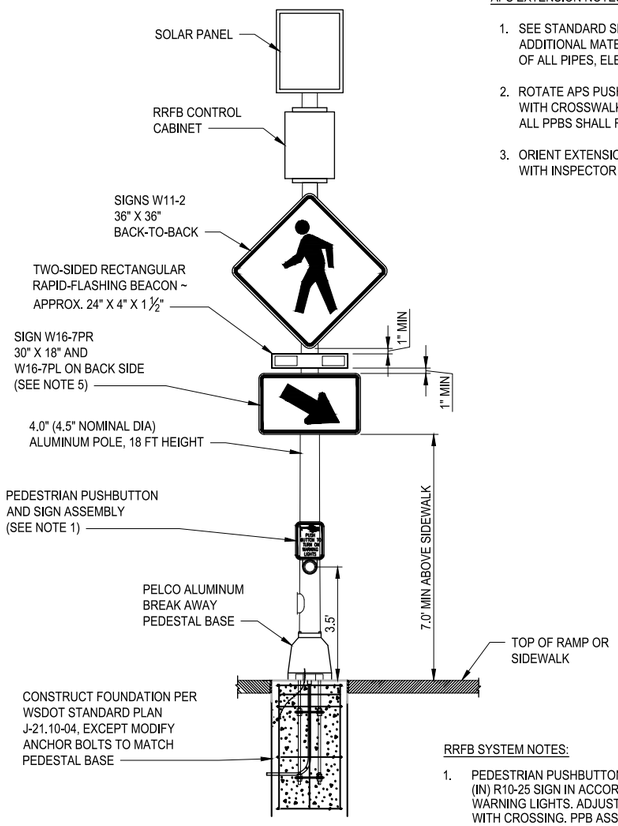
SIGNAL AND ILLUMINATION PLAN

SHEET **44** OF **71** SHEETS

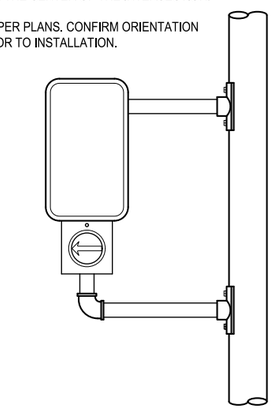
E5

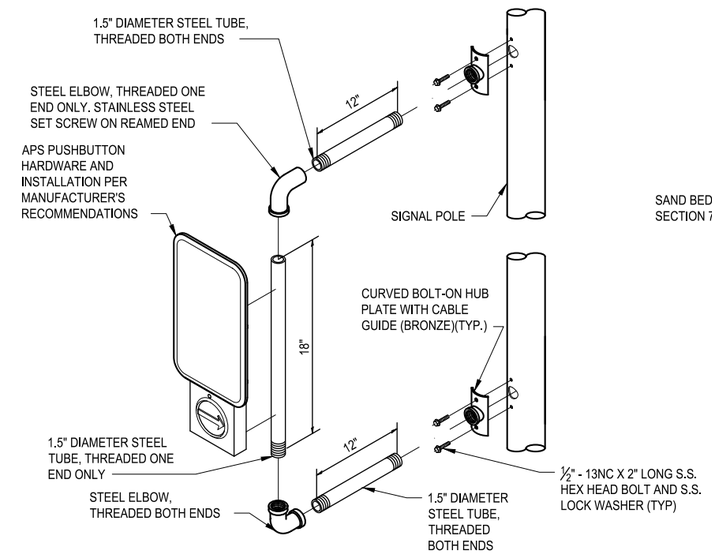


SOLAR RRFB ASSEMBLY
DETAIL 1
NO SCALE -

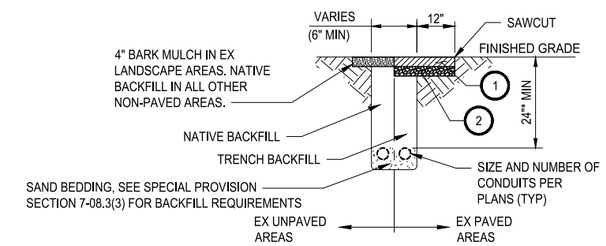
APS EXTENSION NOTES:

1. SEE STANDARD SPECIFICATION SECTION 9-29.17 FOR ADDITIONAL MATERIAL REQUIREMENTS, INCLUDING PAINTING OF ALL PIPES, ELBOWS, AND HUB PLATES.
2. ROTATE APS PUSHBUTTON SO FACE OF ARROW IS PARALLEL WITH CROSSWALK STRIPING OF CROSSING BEING SERVED. ALL PPBS SHALL FACE THE CENTER OF THE INTERSECTION.
3. ORIENT EXTENSIONS PER PLANS. CONFIRM ORIENTATION WITH INSPECTOR PRIOR TO INSTALLATION.





APS PEDESTRIAN PUSHBUTTON (PPB) EXTENSION
DETAIL 2
NO SCALE -



TRENCH PAVEMENT RESTORATION NOTES:

1. PAVEMENT RESTORATION. HMA CL ½" PG 64-22 DEPTH TO MATCH PROPOSED FULL DEPTH.
2. CSBC DEPTH TO MATCH PROPOSED FULL DEPTH.

* ADJUST DEPTH OF COVER AS REQUIRED TO PROVIDE 6" MIN CLEARANCE FROM EXISTING AND PROPOSED UTILITIES.

ELECTRICAL TRENCH
DETAIL 3
NO SCALE -

RRFB SYSTEM NOTES:

1. PEDESTRIAN PUSHBUTTON AND SIGN ASSEMBLY - MAY BE SEPARATE PARTS. USE 9" (IN) X 12" (IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS. ADJUST PPB ASSEMBLY ON POLE SO THAT ARROW IS ALIGNED PARALLEL WITH CROSSING. PPB ASSEMBLY SHALL BE OMITTED ON RRFB POLES IN THE MEDIAN.
2. SEE STANDARD PLAN G-30.10 FOR SIGN INSTALLATION ON SIGNAL STANDARD DETAILS.
3. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RRFB MANUFACTURER. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.
4. RRFB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.
5. W16-7PR ARROW SIGN SHALL POINT TOWARDS THE CROSSWALK.
6. SOLAR PANEL AND BATTERY SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.

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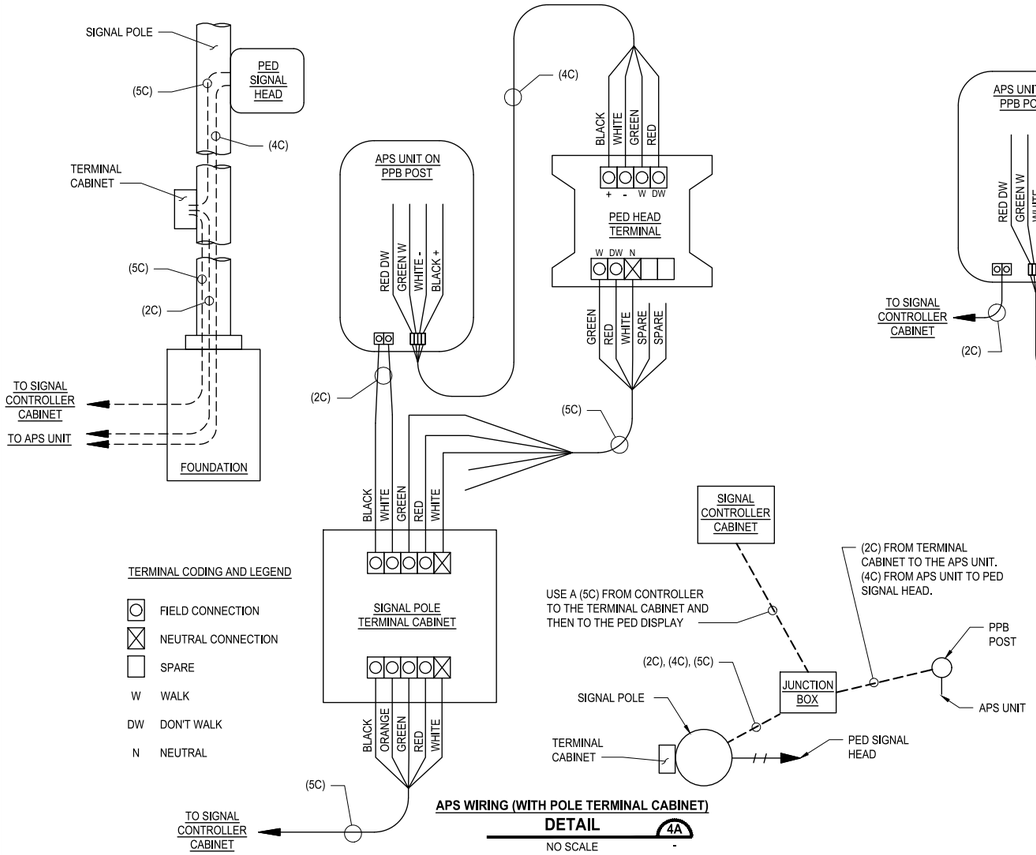
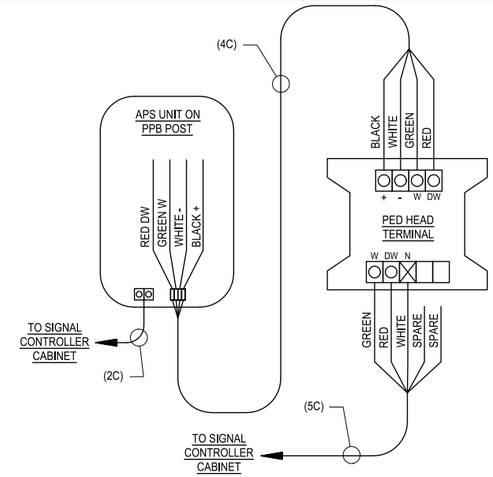
ELECTRICAL DETAILS

SHEET **45** OF **71** SHEETS

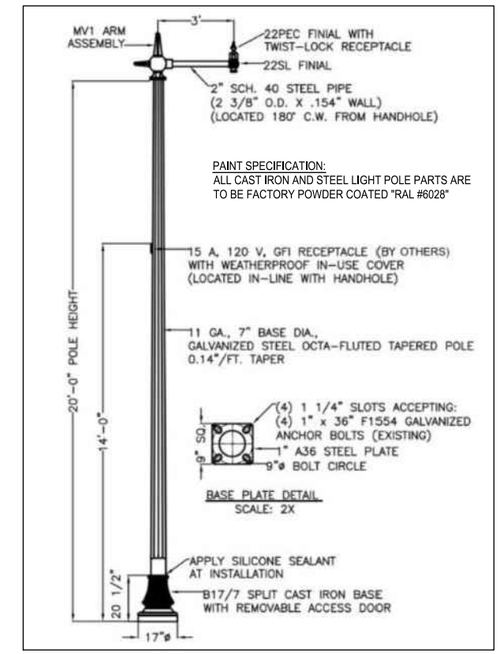
E6



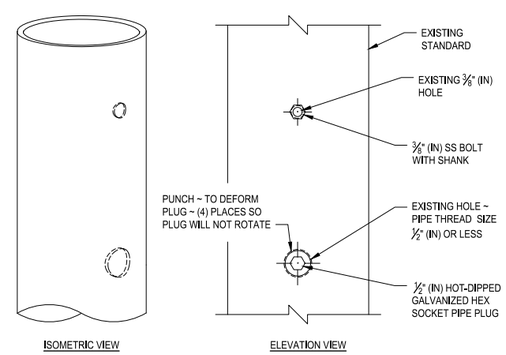
APS WIRING (WITH POLE TERMINAL CABINET)
DETAIL 4A
NO SCALE



APS WIRING (WHEN NO TERMINAL CABINET)
DETAIL 4B
NO SCALE



PEDESTRIAN SCALE LIGHT POLE
DETAIL 5
NO SCALE



BOLT HOLE SIZE 1/2" (IN) DIAMETER OR LESS ~ PIPE TRADE SIZE 1/2" OR LESS
(EXAMPLE WITH 1/2" (IN) DIAMETER AND 3/8" (IN) DIAMETER HOLES SHOWN)

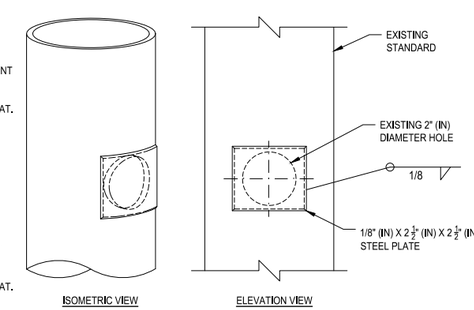
SIGNAL STANDARD HOLE REPAIR, 1/2" DIA. OR LESS
DETAIL 6A
NO SCALE

FOR UNC OR UNF THREADS:

- APPLY SILICONE CAULK TO THREADS OF SS BOLT WITH SHANK.
- TIGHTEN SS BOLT UNTIL SHANK IS TIGHT AGAINST STANDARD.
- CUT OFF SS BOLT EVEN WITH STANDARD.
- FILE SS BOLT TO MATCH CONTOUR OF STANDARD.
- TREAT SS BOLT AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

FOR NATIONAL PIPE THREADS:

- APPLY SILICONE CAULK TO THREADS OF HOT-DIPPED GALVANIZED HEX SOCKET PIPE PLUG.
- TIGHTEN PLUG UNTIL FLUSH WITH STANDARD.
- FILE PLUG TO MATCH CONTOUR OF STANDARD.
- FILL HEX SOCKET WITH PAINTABLE SILICONE CAULK.
- TREAT PLUG AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.



(EXAMPLE WITH 2" (IN) DIAMETER HOLE SHOWN)

SIGNAL STANDARD HOLE REPAIR, 3" DIA. OR LESS
DETAIL 6B
NO SCALE

REPAIR PROCEDURE - MAXIMUM HOLE SIZE 3" (IN) DIAMETER OR LESS:

- SUBMITTAL PER STANDARD SPECIFICATION 6-03.3(25).
- MAXIMUM HOLE SIZE 3" OR LESS IN DIAMETER.
- 1/8" (IN) STEEL PLATE - TYPE ASTM A - 36 ELECTRODE TYPE XX-70.
- THE PLATE SHALL BE 1/2" (IN) LARGER THAN THE DIAMETER OF THE HOLE TO BE REPAIRED (1/4" (IN) OVERLAP ALL SIDES).
- TACK WELD PLATE TO POLE.
- SHAPE PLATE TO MATCH TAPER AND CURVE OF POLE.
- 1/8" (IN) FILLET WELD ALL AROUND.
- CHAMFER (GRIND) EDGE OF PLATE SMOOTH. REMOVE ALL BURRS AND SHARP EDGES.
- TREAT PATCH PLATE AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY PRIOR TO APPLYING SECOND COAT.

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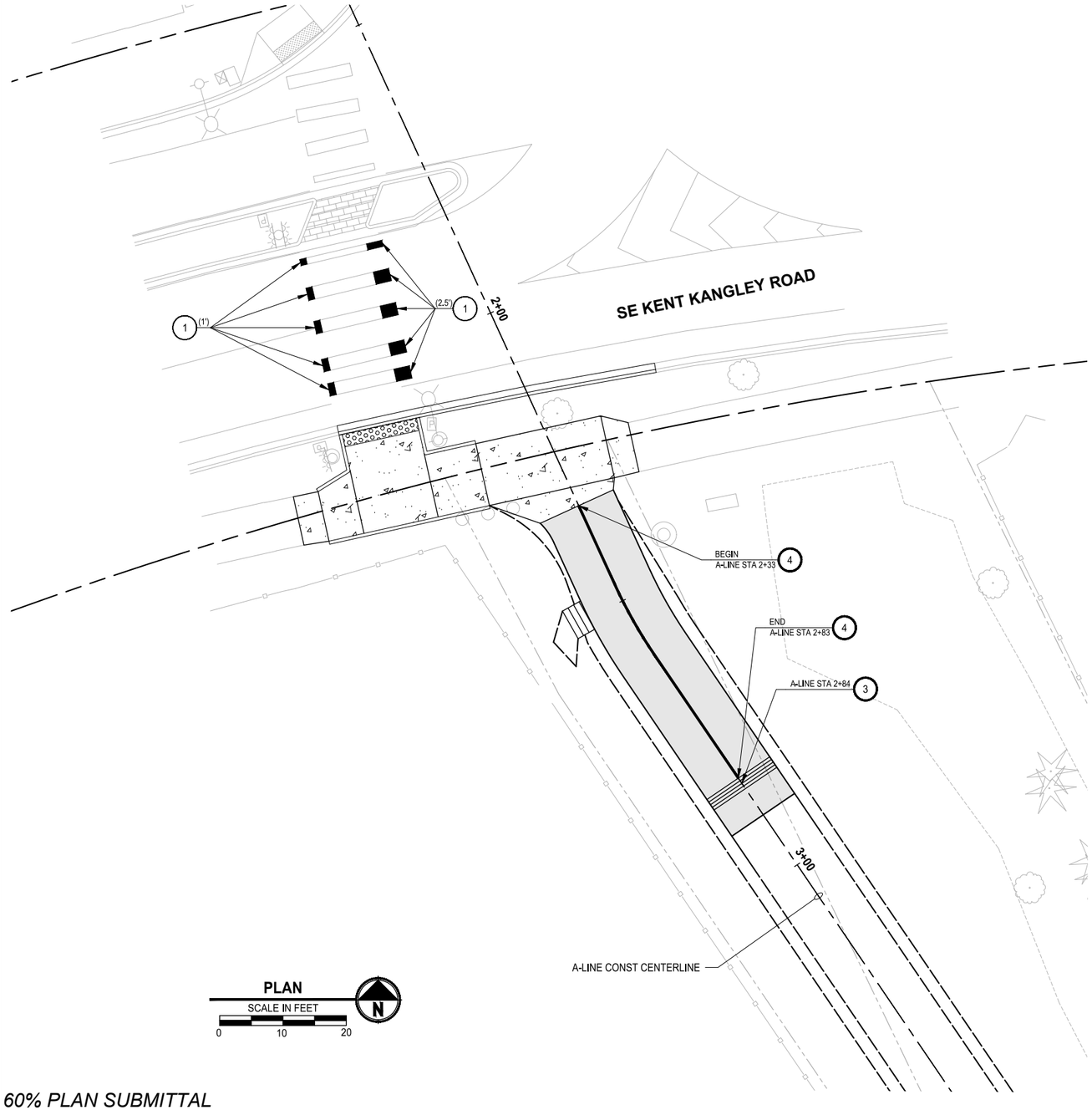
ELECTRICAL DETAILS

SHEET **46** OF **71** SHEETS

E7



CHANNELIZATION NOTES:

1. THERMOPLASTIC CROSSWALK PER WSDOT STD PLAN M-15.10.
2. THERMOPLASTIC 24-INCH STOP LINE PER WSDOT STD PLAN M-24.60.
3. THERMOPLASTIC WARNING BAND. SEE DETAIL 1/DD4
4. 4" WIDE SOLID YELLOW LINE PAINTED
5. 4" WIDE SOLID YELLOW EDGE/LANE THERMOPLASTIC LINE PER WSDOT STD PLAN M-20.10.
6. 4" WIDE SOLID WHITE EDGE/LANE THERMOPLASTIC LINE PER WSDOT STD PLAN M-20.10.
7. INSTALL BOLLARD STRIPING. SEE DETAIL 1/DD3
8. CROSSWALK PER KING COUNTY ROAD STD DWG FIG 4-001.
9. 4" WIDE SOLID WHITE LINE PAINTED
10. CROSSHATCH MARKING PER WSDOT STD PLAN M-24.60.

LEGEND:

XXX — SIGN, SEE SHEET CH6 FOR SIGN SCHEDULE.

RXXX — REMOVE EXISTING SIGN, SEE CH6 FOR SIGN INFORMATION.

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TREVOR ALLAN MASTERSON — STATE OF WASHINGTON — 23005920 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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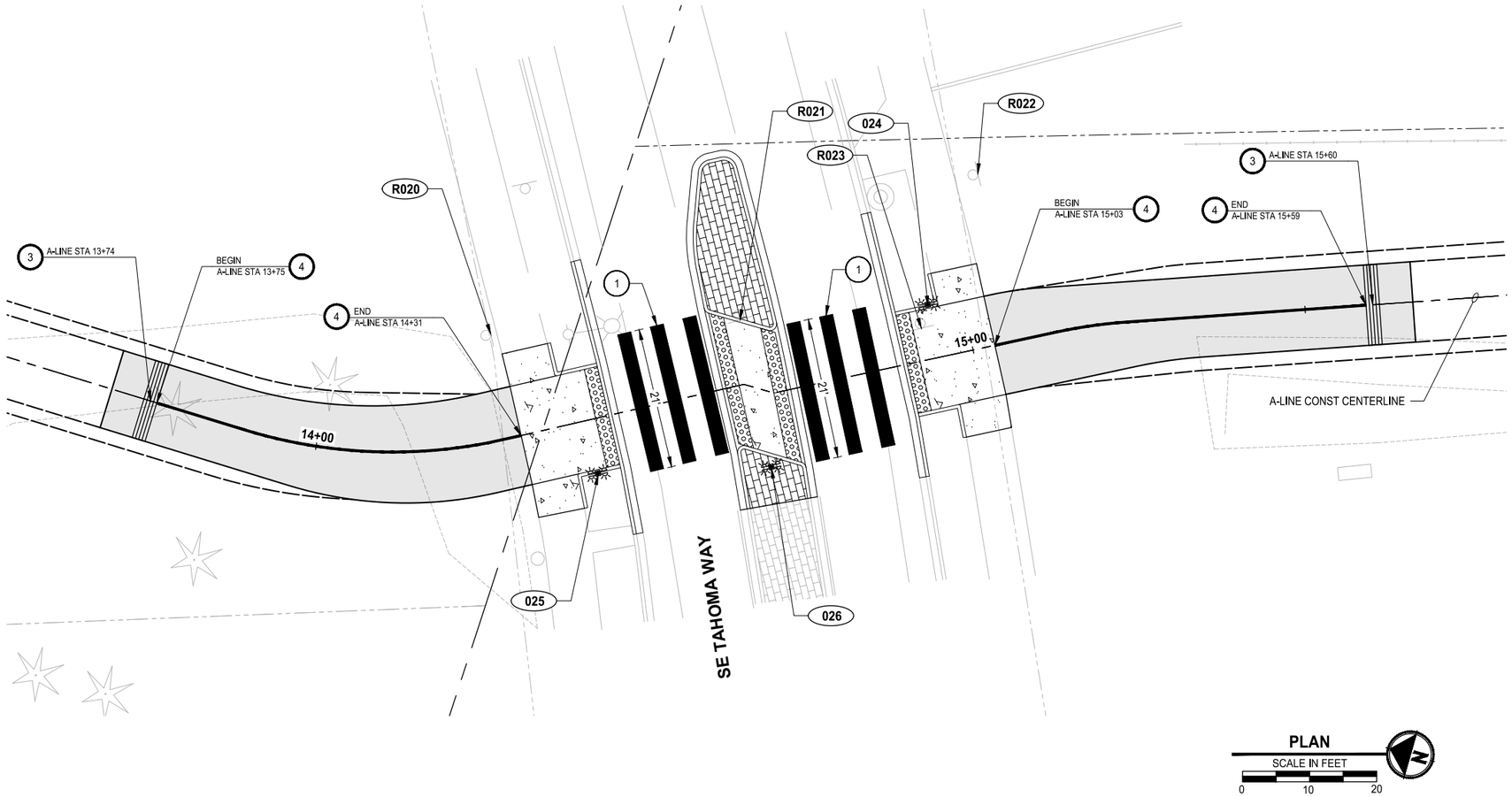
CHANNELIZATION & SIGNING PLAN

SHEET **47** OF **71** SHEETS

CH1



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CHANNELIZATION & SIGNING PLAN

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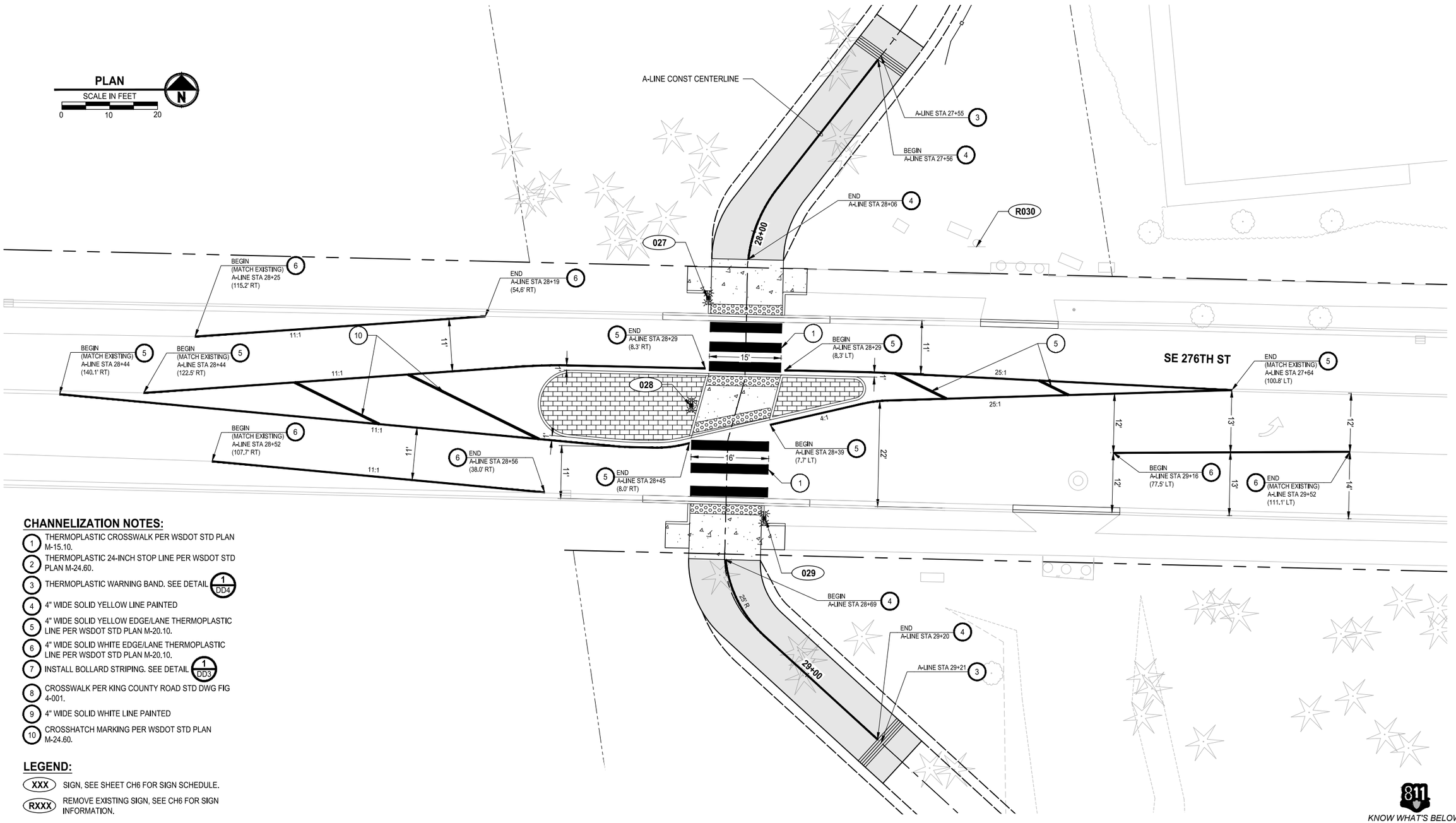
CH2



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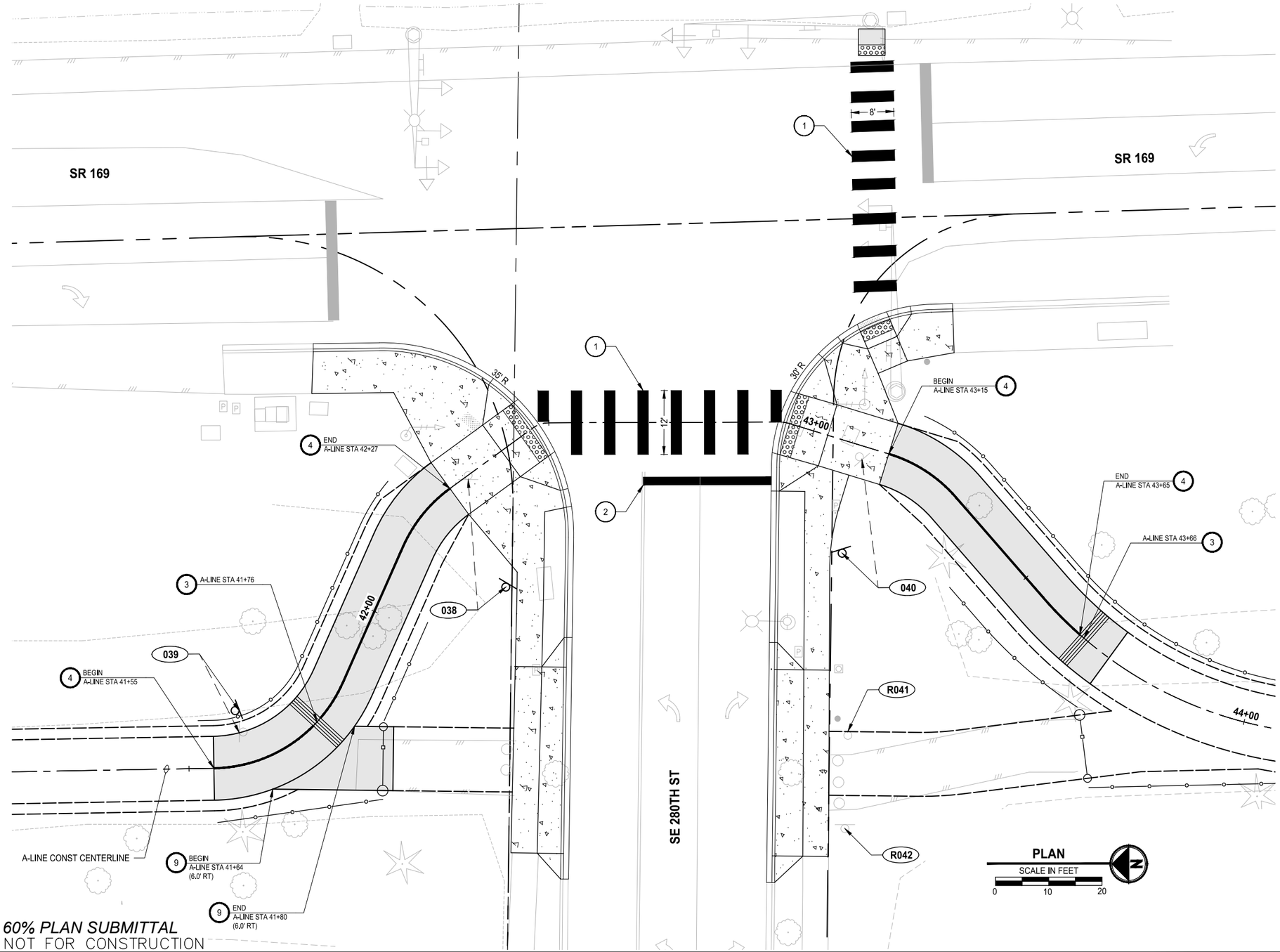

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8. CROSSWALK PER KING COUNTY ROAD STD DWG FIG 4-001.
9. 4" WIDE SOLID WHITE LINE PAINTED
10. CROSSHATCH MARKING PER WSDOT STD PLAN M-24.60.

LEGEND:

XXX — SIGN, SEE SHEET CH6 FOR SIGN SCHEDULE.

RXXX — REMOVE EXISTING SIGN, SEE CH6 FOR SIGN INFORMATION.

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

811
KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON
STATE OF WASHINGTON
52005920
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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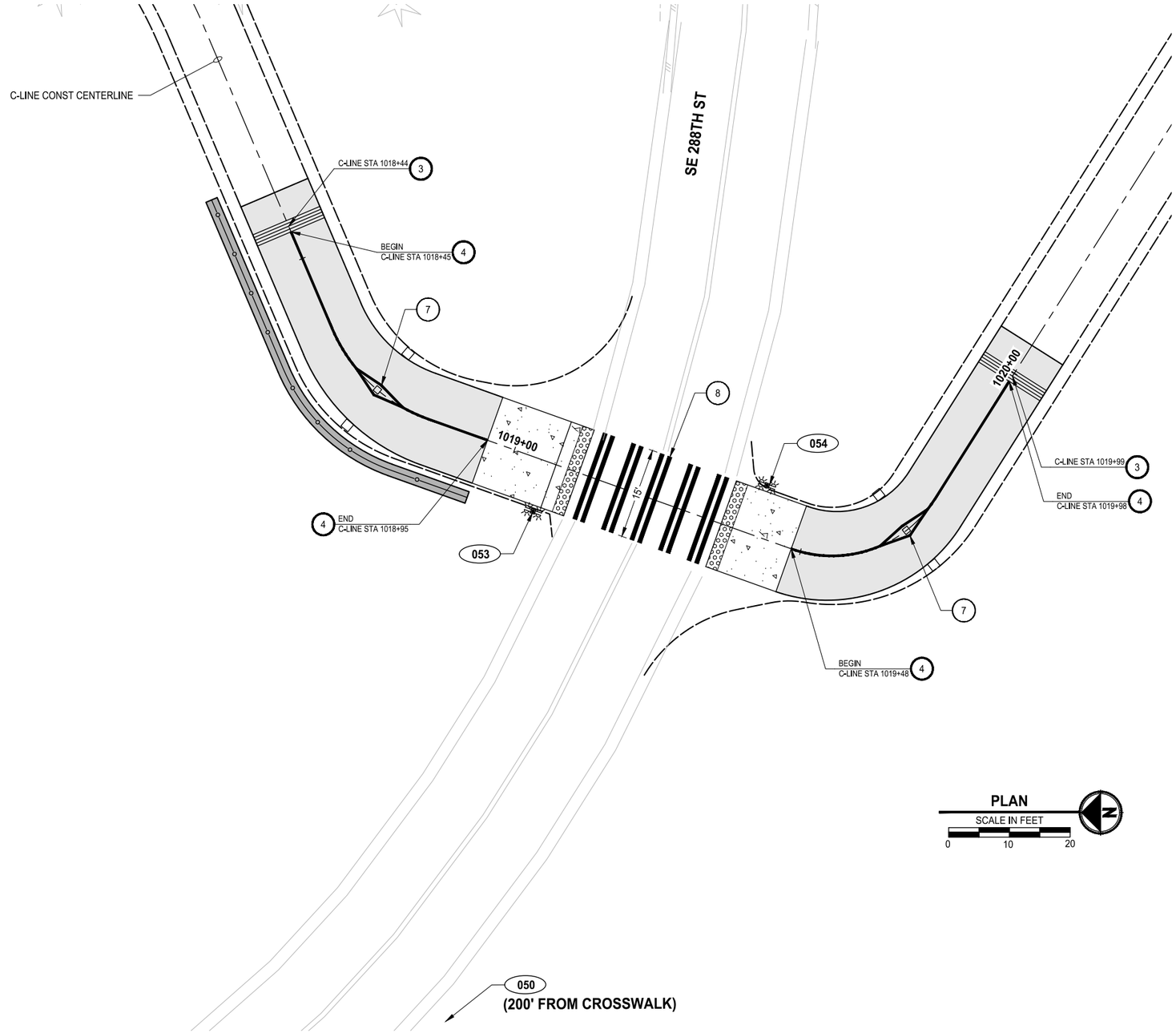
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

CHANNELIZATION & SIGNING PLAN

SHEET **50** OF **71** SHEETS

CH4



CHANNELIZATION NOTES:

1. THERMOPLASTIC CROSSWALK PER WSDOT STD PLAN M-15.10.
2. THERMOPLASTIC 24-INCH STOP LINE PER WSDOT STD PLAN M-24.60.
3. THERMOPLASTIC WARNING BAND. SEE DETAIL 1/DD4
4. 4" WIDE SOLID YELLOW LINE PAINTED
5. 4" WIDE SOLID YELLOW EDGE/LANE THERMOPLASTIC LINE PER WSDOT STD PLAN M-20.10.
6. 4" WIDE SOLID WHITE EDGE/LANE THERMOPLASTIC LINE PER WSDOT STD PLAN M-20.10.
7. INSTALL BOLLARD STRIPING. SEE DETAIL 1/DD3
8. CROSSWALK PER KING COUNTY ROAD STD DWG FIG 4-001.
9. 4" WIDE SOLID WHITE LINE PAINTED
10. CROSSHATCH MARKING PER WSDOT STD PLAN M-24.60.

LEGEND:

XXX — SIGN, SEE SHEET CH6 FOR SIGN SCHEDULE.

RXXX — REMOVE EXISTING SIGN, SEE CH6 FOR SIGN INFORMATION.

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DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON — STATE OF WASHINGTON — 52005920 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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CHANNELIZATION & SIGNING PLAN

SHEET **51** OF **71** SHEETS

CH5

SIGN SCHEDULE

SIGN #	LOCATION		DESCRIPTION	MUTCD SIGN	SIGN SIZE	POST SIZE/TYPE*	REMARK
	STATION	OFFSET					
R020	A-LINE 14+30	15' LT	STOP	R1-1	N/A	N/A	REMOVE SIGN AND POST
R021	A-LINE 14+65	10' LT	KEEP RIGHT	R4-7	N/A	N/A	REMOVE SIGN AND POST
R022	A-LINE 15+06	25' LT	STOP	R1-1	N/A	N/A	REMOVE SIGN AND POST
R023	A-LINE 14+93	5' LT	CROSSWALK	-	N/A	N/A	REMOVE SIGN AND POST
024A	A-LINE 14+50	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
024B	A-LINE 14+50	8' LT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 024A
024C	A-LINE 14+50	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
024D	A-LINE 14+50	8' LT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 024C
025A	A-LINE 14+41	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
025B	A-LINE 14+41	8' RT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 025A
025C	A-LINE 14+41	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
025D	A-LINE 14+41	8' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 025C
026A	A-LINE 14+70	11' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
026B	A-LINE 14+70	11' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 026A
026C	A-LINE 14+70	11' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
026D	A-LINE 14+70	11' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 026C
027A	A-LINE 28+14	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
027B	A-LINE 28+14	8' RT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 027A
027C	A-LINE 28+14	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
027D	A-LINE 28+14	8' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 027C
028A	A-LINE 28+40	9' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
028B	A-LINE 28+40	9' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 028A
028C	A-LINE 28+40	9' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
028D	A-LINE 28+40	9' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 028C
029A	A-LINE 28+61	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
029B	A-LINE 28+61	8' LT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 029A
029C	A-LINE 28+61	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
029D	A-LINE 28+61	8' LT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 029C
R030	A-LINE 27+73	40' LT	USE CROSSWALK LEFT	R9-3B	N/A	N/A	REMOVE SIGN AND POST
038	A-LINE 42+20	20' RT	NO TRUCKS OVER 32,000 GVW EXCEPT LOCAL DELIVERIES	-	N/A	N/A	RELOCATE SIGN ON NEW POST
039	A-LINE 41+61	10' LT	NATURAL AREA BOUNDARY	-	N/A	N/A	RELOCATE SIGN ON NEW POST
040	A-LINE 43+12	8' RT	NO TRUCKS OVER 32,000 GVW EXCEPT LOCAL DELIVERIES	-	N/A	N/A	RELOCATE SIGN ON NEW POST
R041	A-LINE 43+50	45' RT	USE CROSSWALK RIGHT	R3-9B	N/A	N/A	REMOVE SIGN AND POST
R042	A-LINE 43+60	57' RT	NO PEDESTRIAN CROSSING	R3-9A	N/A	N/A	REMOVE SIGN AND POST
050A	C-LINE 1019+21	27' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	STEEL	INSTALL NEW SIGN ON NEW POST
050B	C-LINE 1019+21	27' RT	AHEAD	W16-9P	24" X 12"	STEEL	INSTALL NEW SIGN BELOW SIGN 050A
053A	C-LINE 1019+06	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
053B	C-LINE 1019+06	8' RT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 053A
053C	C-LINE 1019+06	8' RT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
053D	C-LINE 1019+06	8' RT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 053C
054A	C-LINE 1019+41	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST
054B	C-LINE 1019+41	8' LT	ARROW RIGHT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING EAST ON RRFB POST BELOW SIGN 054A
054C	C-LINE 1019+41	8' LT	PEDESTRIAN BICYCLE CROSSING	W11-15	30" X 30"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST
054D	C-LINE 1019+41	8' LT	ARROW LEFT	W16-7P	24" X 12"	RRFB	INSTALL NEW SIGN FACING WEST ON RRFB POST BELOW SIGN 054C

*INSTALL ALL NEW SIGN POSTS PER WSDOT STD DETAIL G-24.50-05

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APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATTESON
STATE OF WASHINGTON
23005920
REGISTERED
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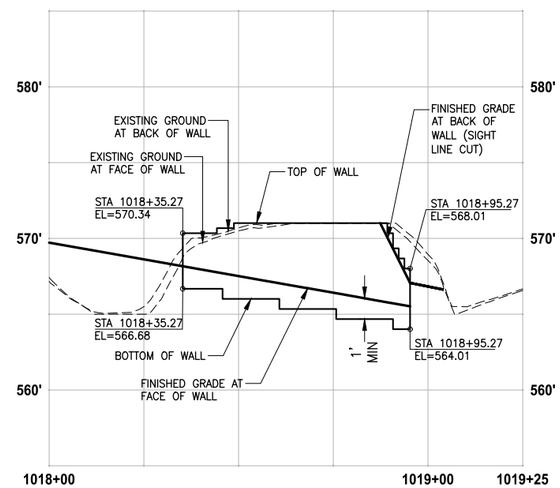
PRELIMINARY

King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

SIGN SCHEDULE



RIGHT STRUCTURAL EARTH WALL

WALL C1 (CUT) C-LINE

HORIZ: 1"=20'
VERT: 1"=5'

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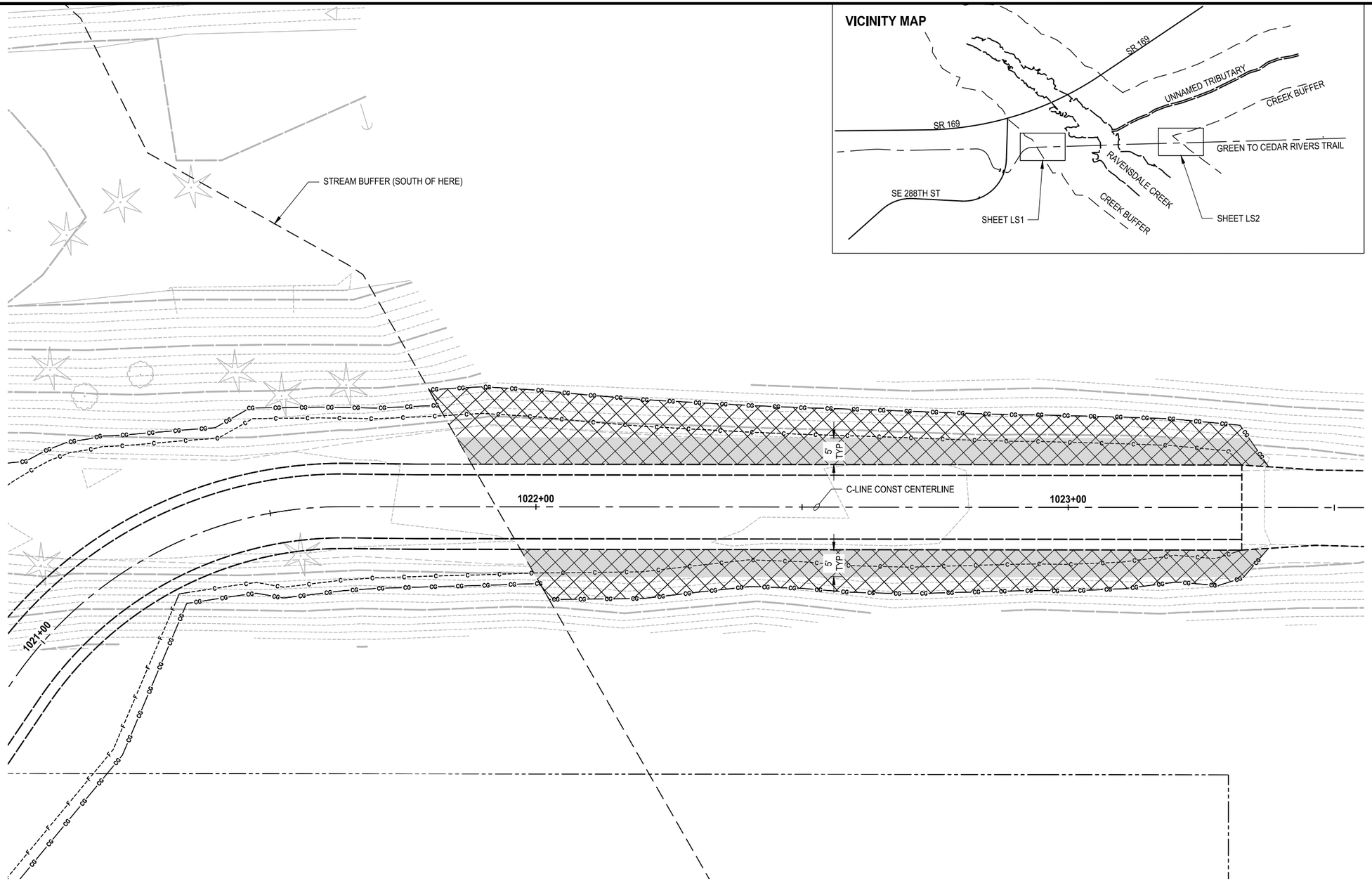
WALL PROFILES AND DETAILS

SHEET **53** OF **71** SHEETS

WA1



LEGEND:

- STREAM BUFFER ENHANCEMENT
- STREAM BUFFER RESTORATION
- LOW SHRUBS ONLY
- MC — MITIGATION CLEARING LIMITS
- CG — CLEARING AND GRUBBING
- C — CUT
- F — FILL

PLAN

SCALE IN FEET 0 10 20

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APPROVED							CIVIL	PARAMETRIX
REVIEWED	D. BAILEY						L.ARCH	PARAMETRIX
DRAWN	J. CERALDE						ENG.	PARAMETRIX

STATE OF WASHINGTON — JASON JOSE CERALDE — LANDSCAPE ARCHITECT — PRELIMINARY

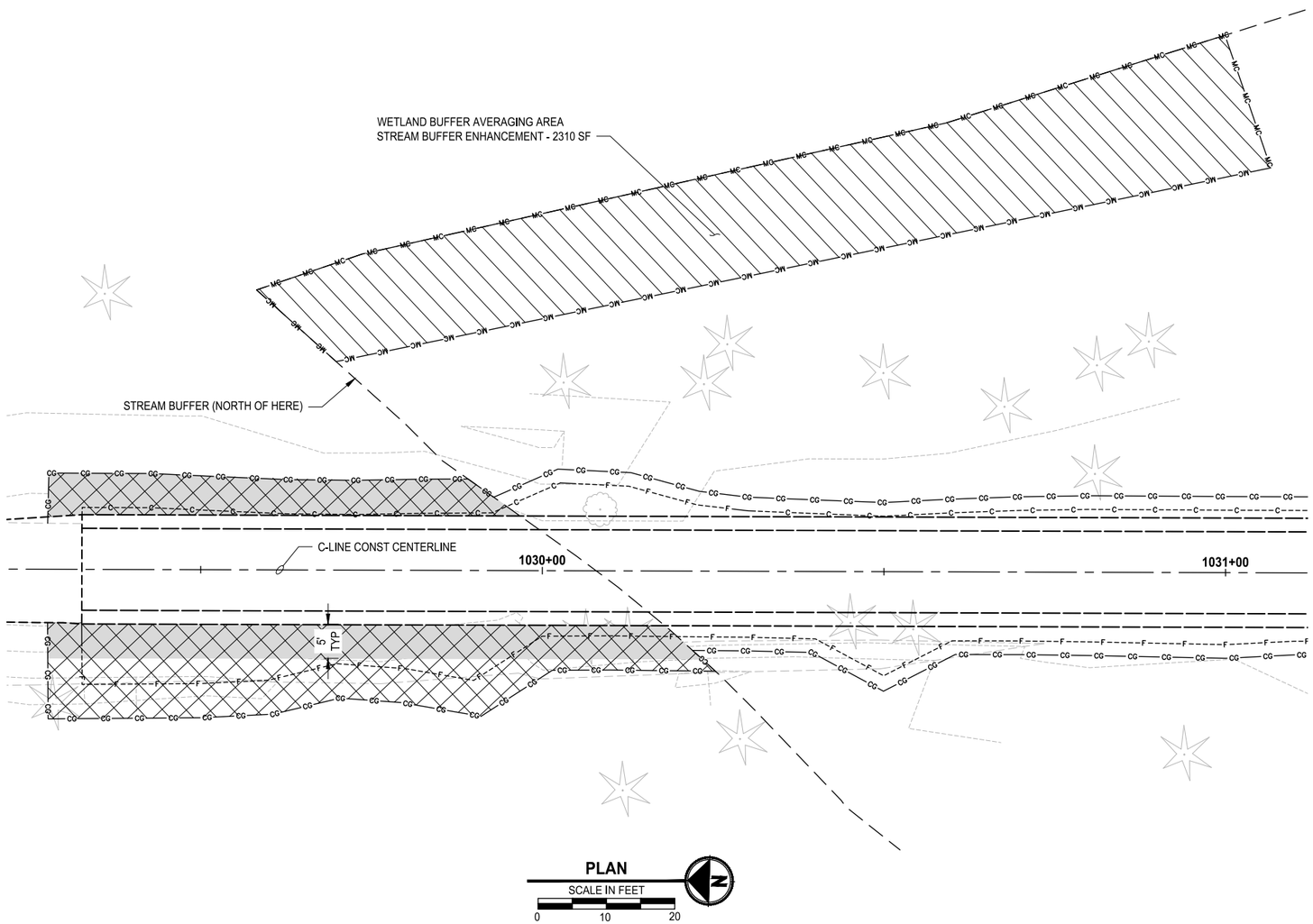
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

LANDSCAPING & MITIGATION PLAN

SHEET **54** OF **71** SHEETS

LS1



PLAN

SCALE IN FEET

0 10 20

LEGEND:

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- STREAM BUFFER RESTORATION
- LOW SHRUBS ONLY
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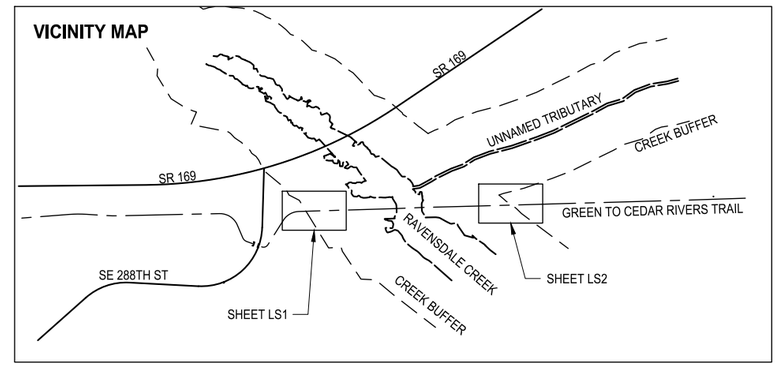
- CG — CLEARING AND GRUBBING
- C — CUT
- F — FILL

VICINITY MAP



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REVIEWED	D. BAILEY						L.ARCH	PARAMETRIX
DRAWN	J. CERALDE						ENG.	PARAMETRIX

STATE OF WASHINGTON — JASON JOSE CERALDE — 22384444 EXP 02/21/2024 — LANDSCAPE ARCHITECT — PRELIMINARY

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LANDSCAPING & MITIGATION PLAN

SHEET **55** OF **71** SHEETS

LS2

PLANT MATERIAL LIST

2 3

STREAM BUFFER RESTORATION PLANTING AREA				
QTY	BOTANICAL NAME	COMMON NAME	MINMUM SIZE	NOTES
	TALL SHRUBS			
9	RIBES SANGUINEUM	RED FLOWERING CURRANT	#1 CONT / 12-IN. HT	SPACE TALL SHRUBS 8' OC
	MEDIUM SHRUBS			
41	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	#1 CONT / 12-IN. HT	
41	ROSA NUTKANA	NOOTKA ROSE	#1 CONT / 12-IN. HT	SPACE MEDIUM SHRUBS 4' OC
41	SYMPHORICARPOS ALBUS	SNOWBERRY	#1 CONT / 12-IN. HT	
	LOW SHRUBS			
293	GAULTHERIA SHALLON	SALAL	#1 CONT / 12-IN. HT	
293	MAHONIA NERVOSA	LOW OREGON GRAPE	#1 CONT / 12-IN. HT	SPACE LOW SHRUBS 2.5' OC
293	POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT / 12-IN. HT	

2 3

1 2 4

STREAM BUFFER ENHANCEMENT PLANTING AREA				
QTY	BOTANICAL NAME	COMMON NAME	MINMUM SIZE	NOTES
	TREES			
3	PSEUDOTSUGA MENZIESII	DOUGLAS-FIR	#2 CONT / 18-IN. HT	SPACE TREES 8' OC
	TALL SHRUBS			
3	HOLODISCUS DISCOLOR	OCEAN SPRAY	#1 CONT / 12-IN. HT	SPACE TALL SHRUBS 8' OC
3	OEMLARIA CERASIFORMIS	OSOBERRY	#1 CONT / 12-IN. HT	
	MEDIUM SHRUBS			
22	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	#1 CONT / 12-IN. HT	
22	ROSA NUTKANA	NOOTKA ROSE	#1 CONT / 12-IN. HT	SPACE MEDIUM SHRUBS 4' OC
23	SYMPHORICARPOS ALBUS	SNOWBERRY	#1 CONT / 12-IN. HT	
	LOW SHRUBS			
7	GAULTHERIA SHALLON	SALAL	#1 CONT / 12-IN. HT	
7	MAHONIA NERVOSA	LOW OREGON GRAPE	#1 CONT / 12-IN. HT	SPACE LOW SHRUBS 2.5' OC
7	POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT / 12-IN. HT	

PLANT MATERIAL SETBACK CHART

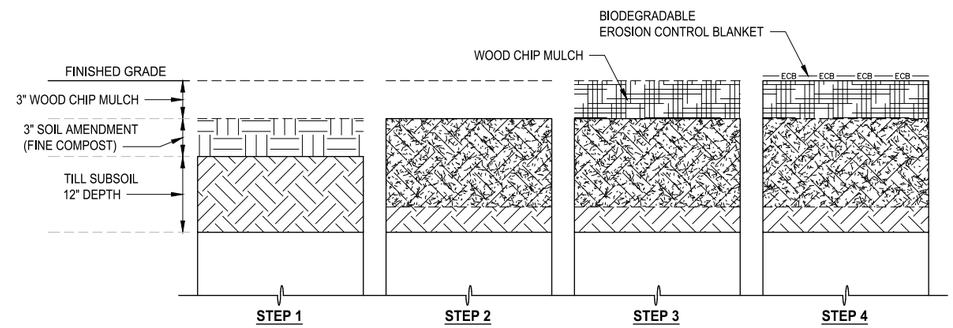
	GUARDRAIL BARRIER	EDGE OF ROADWAY OR PAVEMENT	DRAINAGE STRUCTURE OR ACCESS ROAD	WALL	FIRE HYDRANT	FENCE, OVERHEAD UTILITIES, LIGHT POLES, UTILTY BOXES	SIGNS	"EXISTING TREE TRUNK, VEGETATION MASS"
EVERGREEN TREE	10'	20'	10'	10'	5'	10'	15'	10'
ORNAMENTAL / NATIVE DECIDUOUS TREE	10'	10'	10'	10'	5'	10'	15'	10'
MEDIUM AND LARGE SHRUBS	5'	5'	5'	5'	5'	3'	6'	5'

PLANTING KEY NOTES:

1. INSTALL TREE PER DETAILS 1/- AND 2/-
2. INSTALL SHRUB PER DETAILS 1/- AND 2/-
3. INSTALL SOIL AMENDMENT 3" DEPTH AND WOOD CHIP MULCH 3" DEPTH PER DETAIL 3/-
4. INSTALL COMPOST 3" DEPTH AND WOOD CHIP MULCH PER DETAIL 4/-

PLANTING NOTES:

1. CONTRACTOR SHALL ARRANGE TO MEET ON SITE WITH PROJECT REPRESENTATIVE TO DISCUSS LIMITS OF WORK AND METHODS. CONSTRUCTION ACTIVITIES SHALL NOT COMMENCE UNTIL ACCESS, LIMITS OF WORK, AND METHODS ARE APPROVED.
2. MITIGATION PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT. FINAL PLANT LOCATIONS SHALL BE APPROVED BY PROJECT REPRESENTATIVE PRIOR TO PLANTING. LOCATE PLANTINGS ACCORDING TO REQUIREMENTS OF THE PLANT SPACING DETAIL PLANT MATERIAL SETBACK CHART.
3. USE ONLY HAND TOOLS TO CLEAR AND CULTIVATE SOIL UNDER THE CANOPY (WITHIN AND 5' OUTSIDE THE DRIPLINE) OF EXISTING TREES.
4. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF ONE YEAR. PLANT MATERIAL IS TO BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN PLANTS NATIVE TO THE PACIFIC NORTHWEST. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY PROJECT REPRESENTATIVE.
5. MITIGATION PLANTING SHALL TAKE PLACE DURING THE DORMANT SEASON (OCTOBER 1ST TO MARCH 1ST). PLANTING MAY BE ALLOWED AT OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY PROJECT REPRESENTATIVE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND EXCESS SOIL OCCASIONED BY THIS PROJECT.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
8. ALL DIMENSIONS FOR LISTED HEIGHT, LENGTH AND CONTAINER SIZE ARE MINIMUM REQUIREMENTS.
9. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDED. THE CONTRACTOR SHALL REPLANT ANY NATIVE WOODY VEGETATION DISTURBED DURING CONSTRUCTION WITH SPECIES PROVIDED IN THE PLANT MATERIALS LIST AT 1:1.
10. DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT REPRESENTATIVE PRIOR TO PROCEEDING WITH AFFECTED WORK.



PREPARATION OF PLANTING AREA FOR RESTORATION AREAS SEQUENCE OF WORK
DETAIL 3
NO SCALE

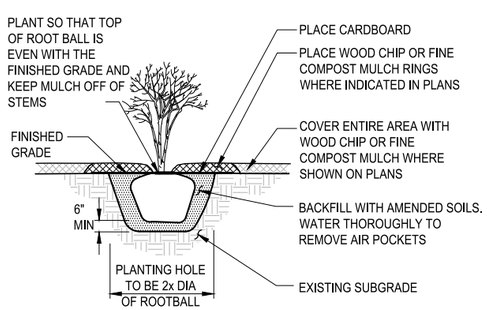
SEQUENCE OF WORK:

STEP 1
TILL SUBSOIL WHERE SOIL AMENDMENT IS TO BE INSTALLED TO A DEPTH OF 12" AFTER CLEARING AND GRUBBING.

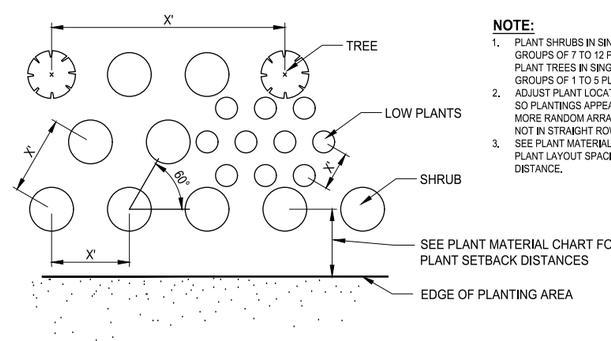
STEP 2
3" OF SOIL AMENDMENT (FINE COMPOST) PER SECTION 9-14.2(1). INTO THE TOP 8" OF THE SUBSOIL.

STEP 3
INSTALL 3" WOOD CHIP MULCH PER SECTION 9.14.5(3).

STEP 4
ONLY ON SLOPES 2:1 AND GREATER
INSTALL BIODEGRADABLE EROSION CONTROL BLANKET PER SECTION 9-14.6(2)A.
SEE WSDOT STD PLAN I-60.10.-01

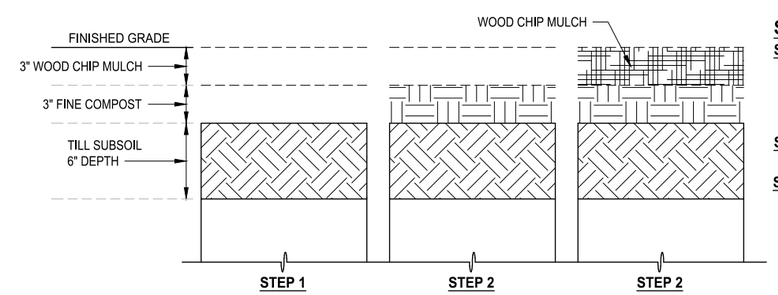


SMALL TREE AND SHRUB PLANTING
DETAIL 1
NO SCALE



NOTE:
1. PLANT SHRUBS IN SINGLE SPECIES GROUPS OF 7 TO 12 PLANTS EACH. PLANT TREES IN SINGLE SPECIES GROUPS OF 1 TO 5 PLANTS EACH.
2. ADJUST PLANT LOCATIONS SLIGHTLY SO PLANTINGS APPEAR TO BE IN A MORE RANDOM ARRANGEMENT AND NOT IN STRAIGHT ROWS.
3. SEE PLANT MATERIAL LIST FOR PLANT LAYOUT SPACING X' DISTANCE.

TYPICAL PLANT SPACING
DETAIL 2
NO SCALE



SEQUENCE OF WORK:

STEP 1
TILL SUBSOIL IN MITIGATION CLEARING AREAS TO A DEPTH OF 6" AFTER CLEARING. (USE HAND TOOLS ONLY WITHIN DRIP LINE OF A TREE)

STEP 2
PLACE 3" OF FINE COMPOST.

STEP 3
INSTALL 4" WOOD CHIP MULCH PER SECTION 9.14.5(3).

PREPARATION OF PLANTING AREA FOR ENHANCEMENT AREAS SEQUENCE OF WORK
DETAIL 4
NO SCALE

811
KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED	D. BAILEY						L.ARCH	PARAMETRIX
DRAWN	J. CERALDE						ENG.	PARAMETRIX

STATE OF WASHINGTON JASON JOSE CERALDE 22444 LANDSCAPE ARCHITECT EXP. 02/24/2024 PRELIMINARY

King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

LANDSCAPING DETAILS

SHEET **56** OF **71** SHEETS

LS3

1.1 MITIGATION GOALS, MITIGATION OBJECTIVES, AND PERFORMANCE STANDARDS

THE GOAL OF THE MITIGATION PLAN WILL BE ACHIEVED THROUGH THE OBJECTIVES LISTED BELOW THAT, ALONG WITH ASSOCIATED PERFORMANCE STANDARDS, ARE DISCUSSED IN THE FOLLOWING SECTIONS.

1.1.1 MITIGATION GOAL

THE OVERALL GOAL OF THE MITIGATION AND RESTORATION PLAN IS TO IMPROVE THE HYDROLOGIC, WATER QUALITY, AND HABITAT FUNCTIONS OF WETLAND/STREAM AND BUFFER AREAS.

1.1.2 MITIGATION OBJECTIVES

THE MITIGATION GOAL WILL BE ACHIEVED THROUGH THE FOLLOWING OBJECTIVES:

- IMPROVE HYDROLOGIC, WATER QUALITY, AND HABITAT FUNCTIONS BY RESTORING AND ENHANCING BUFFER AREAS.
- IMPROVE HABITAT FOR WILDLIFE WITH HABITAT LOGS.

1.1.3 PERFORMANCE CRITERIA

A SET OF SPECIFIC PERFORMANCE STANDARDS HAS BEEN ESTABLISHED TO CORRESPOND WITH THE STATED MITIGATION OBJECTIVES. THESE STANDARDS SERVE AS BENCHMARKS TO EVALUATE THE SUCCESS OF THE MITIGATION PROJECT. BY MONITORING THE MITIGATION PROJECT AND COMPARING THE RESULTS TO PERFORMANCE STANDARDS, BIOLOGISTS WILL BE ABLE TO DETERMINE WHETHER A CONTINGENCY PLAN SHOULD BE IMPLEMENTED. PLANTED MITIGATION AREAS WILL INCLUDE WETLAND AND BUFFER ENHANCEMENT AREAS, WETLAND/STREAM REESTABLISHMENT AREAS, AND RESTORATION AREAS. THE PERFORMANCE STANDARDS FOR ALL MITIGATION AREAS ARE AS FOLLOWS:

YEAR 0:

- AREA IS GRADED ACCORDING TO THE APPROVED MITIGATION PLAN (OR APPROVED MODIFICATIONS TO THIS PLAN).
- TEMPORARILY IMPACTED SURFACE SOILS ARE RESTORED TO PRE-DISTURBANCE CONDITIONS.
- HABITAT FEATURES ARE INSTALLED AND COUNTED.

ALL YEARS:

- INVASIVE SPECIES, SUCH AS NON-NATIVE BLACKBERRY, WILL OCCUPY NO MORE THAN 10 PERCENT AREAL COVER IN EACH MITIGATION AREA. REED CANARYGRASS COVER WILL DECLINE IN EACH YEAR, WITH A TOTAL REDUCTION OF 50 PERCENT BY THE END OF THE MONITORING PERIOD.
- ANY REGULATED NOXIOUS WEEDS IN KING COUNTY BE ABSENT AFTER YEAR 1 IN THE MITIGATION AREAS.
- COMPLETE ERADICATION (0 PERCENT COVER) OF CLASS A INVASIVE PLANTS IN KING COUNTY AND NON-NATIVE KNOTWEED SPECIES AND SPECIES HYBRIDS (E.G., *POLYGONUM CUSPIDATUM, P. SACHALINENSE, P. X BOHEMICUM*).
- ALL INSTALLED HABITAT FEATURES ARE PRESENT AND IN GOOD CONDITION.

YEAR 1

- BY THE END OF THE FIRST GROWING SEASON, 100 PERCENT OF THE PLANTED NATIVE SPECIES WILL HAVE SURVIVED OR WILL BE REPLACED. THE CONTRACTOR RESPONSIBLE FOR PLANTING WILL BE REQUIRED TO REPLANT ALL PLANTS THAT DIED FOLLOWING 1 YEAR AFTER INITIAL PLANTING.

YEAR 2

- NATIVE SPECIES (PLANTED AND VOLUNTEERS) WILL PROVIDE AT LEAST 15 PERCENT AREAL COVER OF THE PLANTED AREAS.

YEAR 3

- NATIVE SPECIES (PLANTED AND VOLUNTEERS) WILL PROVIDE AT LEAST 35 PERCENT AREAL COVERAGE OF THE PLANTED AREAS.

YEAR 5

- NATIVE SPECIES (PLANTED AND VOLUNTEERS) WILL PROVIDE AT LEAST 50 PERCENT AREAL COVERAGE OF THE PLANTED AREAS.

1.2 MITIGATION IMPLEMENTATION SCHEDULE

TABLE 6-1 OUTLINES THE MITIGATION MONITORING SCHEDULE FOR THE 5-YEAR MONITORING PERIOD.

TABLE 6-1. MITIGATION MONITORING SCHEDULE

MITIGATION MONITORING ELEMENT	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 5
AS-BUILT REPORT	X				
VEGETATION QUANTITATIVE		X	X	X	X
VEGETATION QUALITATIVE	X	X	X	X	X
INVASIVE SPECIES	X	X	X	X	X
HABITAT FEATURES	X	X	X	X	X
REPORTING	X	X	X	X	X

1.3 BASELINE CONDITIONS AND AS-BUILT REPORT

THE BASELINE CONDITIONS OF THE RESTORATION AND MITIGATION AREAS WILL BE ESTABLISHED AFTER CONSTRUCTION IS COMPLETE (INCLUDING PLANT INSTALLATION) AND APPROVED BY THE PROJECT BIOLOGIST. THIS DATE WILL CONSTITUTE THE BEGINNING OF YEAR 0. A POST-CONSTRUCTION SITE REVIEW OF THE COMPLETED WORK WILL BE CONDUCTED BY THE RESTORATION BIOLOGISTS AND THE CONTRACTOR TO VERIFY THAT THE PLAN WAS PROPERLY IMPLEMENTED. THIS FIELD MEETING WILL IDENTIFY ANY DISCREPANCIES BETWEEN THE BID DOCUMENTS AND THE FIELD PLANTINGS, INCLUDING PREVIOUSLY APPROVED PLANT SUBSTITUTIONS AND/OR RELOCATION OF PLANTINGS. DURING THIS PERIOD, BASELINE CONDITIONS WILL BE DOCUMENTED IN THE AS-BUILT REPORT.

1.3.1 INSTALLED HABITAT STRUCTURES

THE TYPE, NUMBER, AND LOCATION OF THE INSTALLED HABITAT LOGS AND BRUSH PILES WILL BE DOCUMENTED, SURVEYED, AND REPORTED IN THE YEAR 0 AS-BUILT REPORT. IN EACH MONITORING YEAR, THE STRUCTURES WILL BE EVALUATED QUALITATIVELY FOR STRUCTURAL INTEGRITY AND DOCUMENTED BY PHOTOGRAPHS, TAKEN FROM ESTABLISHED PHOTO POINTS, AND INCLUDED IN THE MONITORING REPORTS. PHOTO POINTS WILL BE FIELD-LOCATED, SURVEYED WITH GPS, AND IDENTIFIED ON THE YEAR 0 AS-BUILT REPORT.

1.3.2 PLANTINGS

AFTER PLANT INSTALLATION, THE PERIMETER OF ALL MITIGATION AREAS WILL BE SURVEYED WITH GPS AND PHOTOGRAPHED TO DOCUMENT BASELINE CONDITIONS. CONTRACTOR RECORDS WILL DOCUMENT THE TOTAL NUMBER OF PLANTS PLANTED IN EACH MITIGATION AREA.

1.3.3 AS-BUILT REPORT

THE AS-BUILT REPORT WILL BE PREPARED TO DOCUMENT THE BASELINE CONDITIONS. IT WILL INCLUDE A NARRATIVE REPORT, A SET OF LANDSCAPE DRAWINGS SHOWING CHANGES THAT OCCURRED DURING CONSTRUCTION RELATIVE TO THE APPROVED PLANS, AND REPRESENTATIVE PHOTOGRAPHS. PERMANENT PHOTO POINTS WILL BE IDENTIFIED WITH GPS AND LOCATED ON THE AS-BUILT PLANS. THE AS-BUILT REPORT WILL INCLUDE AN UPDATED MONITORING PLAN AFTER SITE CONSTRUCTION, WHICH WILL INCLUDE THE LOCATIONS OF VEGETATION MONITORING TRANSECTS OR PLOTS AND PHOTO POINTS. THE AS-BUILT REPORT WILL BE SUBMITTED TO THE CORPS AND KING COUNTY AFTER MITIGATION INSTALLATION IS COMPLETE TO DOCUMENT BASELINE SITE CONDITIONS AS DESCRIBED ABOVE. THIS REPORT WILL CONSTITUTE THE YEAR 0 MONITORING REPORT.

1.4 MONITORING PLAN AND REPORTING

EFFECTIVE MONITORING, ADAPTIVE MANAGEMENT, MAINTENANCE, AND CONTINGENCY ACTIONS ARE PLANNED TO EVALUATE AND ENSURE THAT PERFORMANCE STANDARDS ARE MET AND TO CORRECT DEFICIENCIES, IF NEEDED. CONDUCTING MONITORING WORK AND REPORTING THESE RESULTS FOR AGENCY REVIEW AND CONCURRENCE WILL ENSURE THAT APPROPRIATE CONTINGENCY ACTIONS ARE TAKEN AND ECOLOGICAL BENEFITS ARE ULTIMATELY ACHIEVED. THIS SECTION DESCRIBES THE OVERALL MITIGATION MONITORING THAT WILL OCCUR OVER A 5-YEAR MONITORING PERIOD TO VERIFY THAT THE BUFFER RESTORATION AREAS ARE MEETING ESTABLISHED PERFORMANCE STANDARDS AND PERMIT CONDITIONS. THE MONITORING APPROACH FOR THE MITIGATION PROJECT IS DESCRIBED HERE AND WILL BE PERFORMED IN ACCORDANCE WITH ALL CONDITIONS OF KING COUNTY AND CWA SECTION 404 PERMIT, ADMINISTERED BY THE CORPS. IF MONITORING DEMONSTRATES THAT PERFORMANCE STANDARDS ARE NOT MET, THEN CONTINGENCY ACTIONS WILL BE EVALUATED AND MAY BE IMPLEMENTED TO ENSURE THAT THE DESIRED AQUATIC AREA BUFFER FUNCTIONS ARE ULTIMATELY PROVIDED BY THE PROPOSED MITIGATION PROJECTS.

THE MITIGATION/RESTORATION AREAS WILL BE MONITORED FOR A 5-YEAR PERIOD FOLLOWING CONSTRUCTION. MONITORING REPORTS MUST BE PREPARED IN ACCORDANCE WITH OF KING COUNTY STANDARDS. THE MONITORING REPORTS WILL DOCUMENT THE PROJECT CONDITIONS AFTER CONSTRUCTION AND INITIATE THE MONITORING PERIOD. PERMITTED MITIGATION WILL BE MEASURED BY ATTAINMENT OF THE PERFORMANCE STANDARDS DESCRIBED ABOVE. VEGETATION COMMUNITIES IN ALL MITIGATION AREAS WILL BE ESTABLISHED AS DESCRIBED IN THE MITIGATION PLAN AND DRAWINGS.

1.4.1 VEGETATION MONITORING

FIELD MONITORING WILL OCCUR ANNUALLY FOR 5 YEARS DURING AUGUST OR SEPTEMBER (BEFORE LEAF DROP). QUANTITATIVE AND QUALITATIVE MONITORING WILL OCCUR IN YEARS 1, 2, 3, AND 5.

QUALITATIVE MONITORING WILL CONSTITUTE A GENERAL VISUAL INSPECTION OF EACH MITIGATION AREA WHEN THE SITES ARE MONITORED TO DETERMINE THE CONDITION OF THE PLANT MATERIALS, THE CONDITION OF HABITAT FEATURES, AND THE NEED TO REMOVE INVASIVE PLANTS. PHOTO POINTS, ESTABLISHED IN YEAR 0, WITHIN THE MITIGATION AREAS WILL PERMIT A VISUAL EVALUATION OF PLANTING SUCCESS. ALL PERMANENT PHOTO POINTS WILL BE MARKED ON THE MITIGATION PLAN FOR USE IN THE FIELD.

QUANTITATIVE MONITORING WILL INVOLVE ESTABLISHED SAMPLING TECHNIQUES AND DATA ANALYSIS FOR ASSESSING THE CONDITION OF THE MITIGATION AREAS AGAINST THE STATED PERFORMANCE CRITERIA. THE RESULTS WILL BE COMPARED TO THE PERFORMANCE STANDARDS TO DETERMINE WHETHER THE MITIGATION AREAS ARE DEVELOPING AS PREDICTED AND WILL LEAD TO THE YEAR 5 SUCCESS STANDARDS.

PLANTING SUCCESS IN ALL PLANTED MITIGATION AREAS WILL BE DETERMINED USING LINE-INTERCEPT AND\OR QUADRAT SAMPLING, DEPENDING ON THE SIZE AND CONFIGURATION OF THE MITIGATION AREA. PERCENT COVER WILL BE ESTIMATED USING PLOTS OR THE LINE-INTERCEPT METHOD IN ESTABLISHED TRANSECTS FOR EACH MITIGATION AREA. PERCENT COVER WILL BE MEASURED BY USING TWO ASSESSMENTS: (1) COVER PER SPECIES AND (2) COVER AS A GROUP–NATIVE WOODY VEGETATION. MEASUREMENT OF INDIVIDUAL SPECIES COVERAGE WILL HELP TO DETERMINE WHICH PLANT SPECIES ARE THRIVING, AND MEASUREMENT OF THE GROUP OF NATIVE WOODY PLANTS (REGARDLESS OF STRATUM) WILL DETERMINE WHETHER THE PERFORMANCE STANDARD HAS BEEN MET.

WHEN USING LINE-INTERCEPT METHODS, THE BIOLOGIST WILL WALK THE ENTIRE LENGTH OF THE 100-FOOT CENTERLINE. THE BIOLOGIST WILL RECORD THE AREAL COVER OF EACH SPECIES AND EACH GROUP OF NATIVE WOODY PLANTS THAT VISUALLY INTERCEPT THE CENTERLINE TO THE NEAREST 0.1 FOOT. IT IS EXPECTED THAT, AS THE PLANTS GROW, A GIVEN AREA MAY CONTAIN MORE THAN ONE VEGETATIVE STRATUM. THUS, WHEN CALCULATING OVERALL COVER PER SPECIES WITHIN A TRANSECT, OVERLAPPING VEGETATION COULD CONTRIBUTE TO A TOTAL VEGETATION COVER OF GREATER THAN 100 PERCENT. CALCULATING THE COVER OF NATIVE WOODY PLANTS AS A GROUP WILL NOT RESULT IN COVER GREATER THAN 100 PERCENT.

NON-NATIVE INVASIVE PLANTS WILL BE RECORDED PER SPECIES AND REPORTED SEPARATELY. THE DATA WILL BE USED TO CALCULATE TOTAL PERCENT COVER OF THE NATIVE WOODY GROUP AND INDIVIDUAL SPECIES COVER.

NATIVE VOLUNTEER TREES AND SHRUB COVER WILL BE RECORDED IN THE QUANTITATIVE EVALUATION BECAUSE THE MITIGATION DESIGN ANTICIPATES THAT SUBSTANTIAL NUMBERS OF VOLUNTEER PLANTS WILL BECOME ESTABLISHED. TREES AND SHRUBS ESTABLISHED PRIOR TO MITIGATION SITE INSTALLATION WILL NOT COUNT TOWARD QUANTITATIVE MEASUREMENTS. THE BIOLOGISTS WILL USE THEIR BEST PROFESSIONAL JUDGMENT TO DETERMINE WHICH PLANTS ARE CONSIDERED ESTABLISHED.

THE RESULTS OF QUANTITATIVE MEASUREMENTS WILL BE COMPARED TO THE PERFORMANCE STANDARDS TO DETERMINE THE DEVELOPMENT AND ULTIMATE SUCCESS OF THE MITIGATION AREAS. SPECIES COMPOSITION IN MITIGATION AREAS WILL BE COMPILED FROM THE COLLECTED DATA.

1.4.2 WILDLIFE MONITORING

ANNUAL BIRD SURVEYS IN THE MITIGATION AREAS WILL BE CONDUCTED IN ALL MONITORING YEARS. WILDLIFE SURVEY WILL BE SEASONALLY TARGETED DURING THE BREEDING SEASON (MARCH - JULY).

1.5 REPORTING REQUIREMENTS

MONITORING REPORTS WILL BE PREPARED IN ACCORDANCE WITH KING COUNTY REQUIREMENTS. ALL MONITORING REPORTS MUST CONTAIN SECTIONS FOR METHODS, RESULTS, ANALYSIS, AND RECOMMENDATIONS. REPORTS WILL BE TAILORED TO THE MONITORING YEAR AND MAY INCLUDE INFORMATION ON THE FOLLOWING:

- PLANT SURVIVAL, VIGOR, AND AREAL VEGETATION COVERAGE FROM EACH MITIGATION AREA.
- COLOR PHOTOGRAPHS TAKEN FROM PERMANENT PHOTO POINTS, AS SHOWN ON THE MONITORING PLAN MAP.
- CONDITION OF HABITAT FEATURES AND BIRD SURVEY RESULTS.
- MAP MARKUPS FOR MAINTENANCE RECOMMENDATIONS.

1.6 CONTINGENCY PLAN

IF THERE IS A SIGNIFICANT PROBLEM WITH THE MITIGATION ACHIEVING ITS PERFORMANCE STANDARDS, KING COUNTY WILL DEVELOP A CONTINGENCY PLAN. CONTINGENCY PLANS CAN INCLUDE, BUT ARE NOT LIMITED TO, SOIL DECOMPACTION, SOIL AMENDMENTS, ADDITIONAL PLANT INSTALLATION, AND PLANT SUBSTITUTIONS OF TYPE, SIZE, QUANTITY, AND LOCATION. CONTINGENCY PLANS MUST BE SUBMITTED TO KING COUNTY BY DECEMBER 31 OF ANY YEAR WHEN DEFICIENCIES ARE DISCOVERED.

1.7 ADAPTIVE MANAGEMENT PLAN

FOLLOWING CONSTRUCTION OF THE WETLAND AND STREAM MITIGATION, OVERSIGHT WILL BE REQUIRED TO ENSURE THE LONG-TERM SUCCESS OF THE RESTORATION AND MITIGATION PROJECTS. THE GOAL OF THE PROPOSED RESTORATION AND MITIGATION IS TO RESTORE FUNCTIONAL, SELF-SUSTAINING SYSTEMS THAT REQUIRE LITTLE OR NO LONG-TERM MAINTENANCE. MITIGATION SITES ARE DYNAMIC SYSTEMS THAT CAN EVOLVE RAPIDLY AS SITE CONDITIONS CHANGE. PROJECTS THAT REQUIRE MODIFICATION TO SOILS, PLANT COMMUNITIES, AND TOPOGRAPHY DO NOT ALWAYS RESPOND AS PREDICTED; THEREFORE, THE PRINCIPLES OF ADAPTIVE MANAGEMENT WILL BE USED TO GUIDE POST-CONSTRUCTION AQUATIC AREA BUFFER MANAGEMENT ACTIVITIES.

ADAPTIVE MANAGEMENT IS DRIVEN BY THE MONITORING OBJECTIVES THAT DESCRIBE THE DESIRED CONDITION OF A SITE. IF THE MONITORING OBJECTIVES ARE NOT MET, ADAPTIVE MANAGEMENT ACTIVITIES WILL BE PLANNED TO ACHIEVE THE DESIRED CONDITION. MANAGEMENT ACTIVITIES MAY INCLUDE IMPLEMENTATION OF THE CONTINGENCY ACTIONS DESCRIBED ABOVE OR OTHER ACTIVITIES, AS APPROPRIATE.

1.8 MAINTENANCE PLAN

DURING YEAR 1 MONITORING, EVERY FAILED PLANTING MUST BE REPLACED. OTHER MAINTENANCE ACTIVITIES, SUCH AS WEEDING, TRASH REMOVAL, AND STRUCTURAL MAINTENANCE, MUST BE DONE TWICE PER YEAR FOR THE DURATION OF THE MONITORING PERIOD. SOME CONDITIONS ON MAINTENANCE INCLUDE THE FOLLOWING:

- TREES AND SHRUBS MUST BE WEEDED TO THE DRIPLINE, AND MULCH MUST BE MAINTAINED AT A 3_INCH DEPTH.
- WEED HERBACEOUS PLANTINGS, AS NECESSARY.
- ALL LITTER AND INVASIVE VEGETATION, INCLUDING BUT NOT LIMITED TO HIMALAYAN BLACKBERRY, REED CANARY GRASS, EVERGREEN BLACKBERRY, ENGLISH IVY, MORNING GLORY, AND JAPANESE KNOTWEED, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF SITE.
- DAMAGED OR MISSING STRUCTURAL COMPONENTS, SUCH AS FENCES, SIGNS, AND POSTS, AND HABITAT FEATURES, SUCH AS DOWNED LOGS AND BRUSH PILES, MUST BE REPAIRED OR REPLACED.
- THE POTENTIAL USE OF HERBICIDES FOR WEED CONTROL MUST RECEIVE PRIOR APPROVAL FROM THE PROJECT BIOLOGIST AND BE APPLIED BY A WASHINGTON STATE-LICENSED PESTICIDE APPLICATOR.
-

KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
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STATE OF WASHINGTON · JASON JOSE CERALDE · LANDSCAPE ARCHITECT · PRELIMINARY

King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
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GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

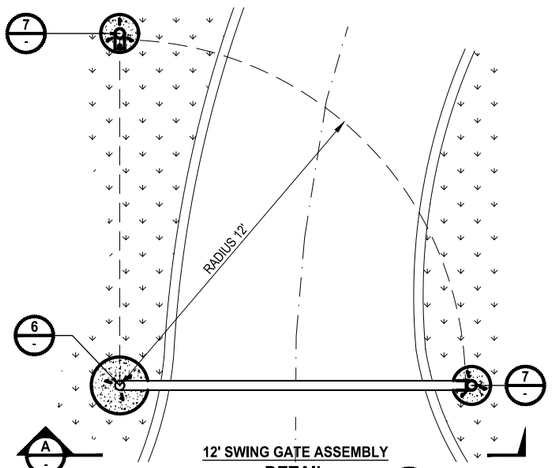
MITIGATION NOTES

SHEET **57** OF **71** SHEETS

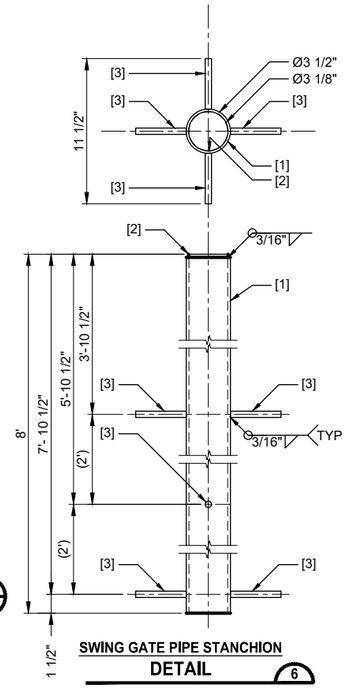
LS4

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL	NOTES
1	1	HSS 3.5" x 0.216" (7'-11 3/4" Long)	A500 Grade B	
2	1	Plate 1/4" (3-1/8" Diameter)	A36 or A572	
3	10	#4 Rebar (4" Long)	A615 Grade 60	
4	1	HSS 4" x 0.188" (6'-11 3/4" Long)	A500 Grade B	
5	2	Plate 1/4" (3-3/4" Diameter)	A36 or A572	
6	1	1/4" 90 Degree Threaded Grease Fitting	Zinc-Plated Steel	
7	1	Plate 1/2" (4" x 6")	A36 or A572	SEE DETAIL 1 - SHEET DD2
8	1	HSS 6" x 4" x 3/16" (12'-0 15/16" Long)	A500 Grade B	SEE DETAIL 2 - SHEET DD2
9	1	HSS 4" x 2" x 3/16" (7'-8 1/4" Long)	A500 Grade B	SEE DETAIL 3 - SHEET DD2
10	1	HSS 4" x 0.188" (3'-2 1/2" Long)	A500 Grade B	
11	1	Plate 1/4" (3-5/8" x 7-3/4")	A36 or A572	SEE DETAIL 4 - SHEET DD2
12	1	Plate 1/4" (2-1/2" x 4")	A36 or A572	SEE DETAIL 5 - SHEET DD2
13	1	Plate 1/4" (3-5/8" x 7-3/4" Long)	A36 or A572	SEE DETAIL 6 - SHEET DD2
14	2	2" x 11' Long Retroreflective Tape	Red - DOT Grade	



12' SWING GATE ASSEMBLY
DETAIL 1
NO SCALE



SWING GATE PIPE STANCHION
DETAIL 6
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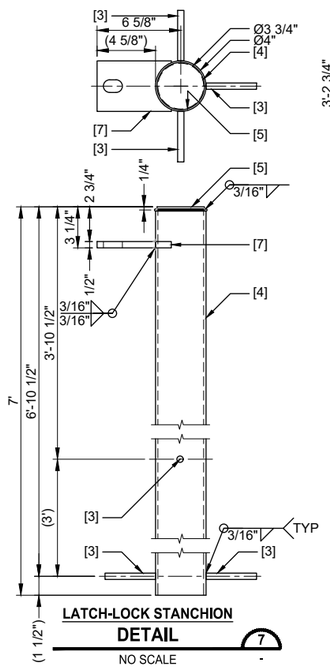

LATCH-LOCK STANCHION
DETAIL 7
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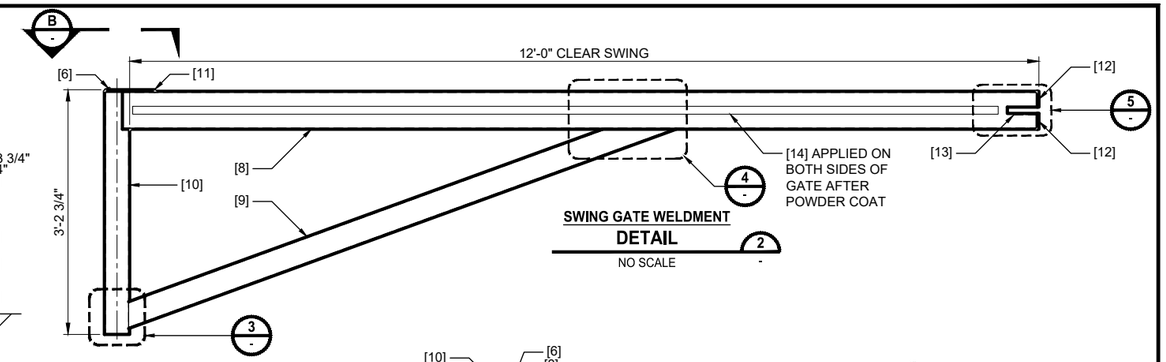

SWING GATE WELDMENT
DETAIL 2
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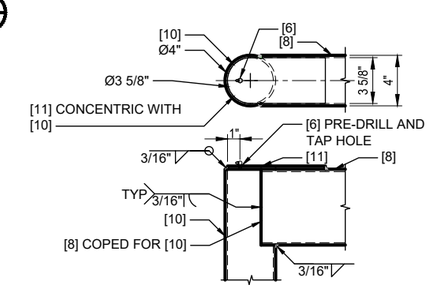

POST CAP WELD
SECTION B
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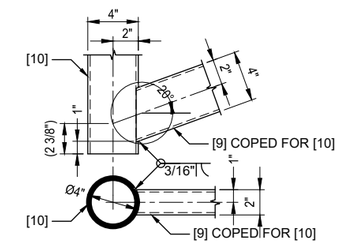

STRUT WELD
DETAIL 3
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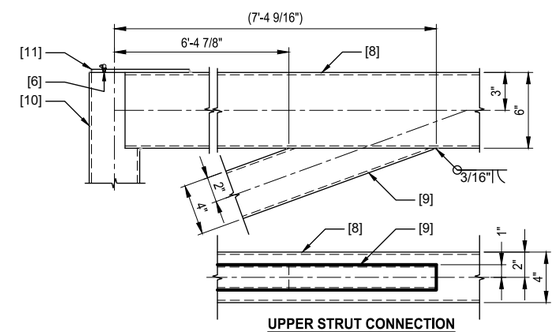

UPPER STRUT CONNECTION
DETAIL 4
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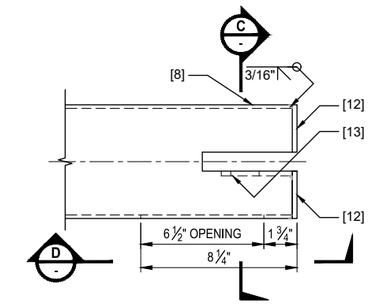
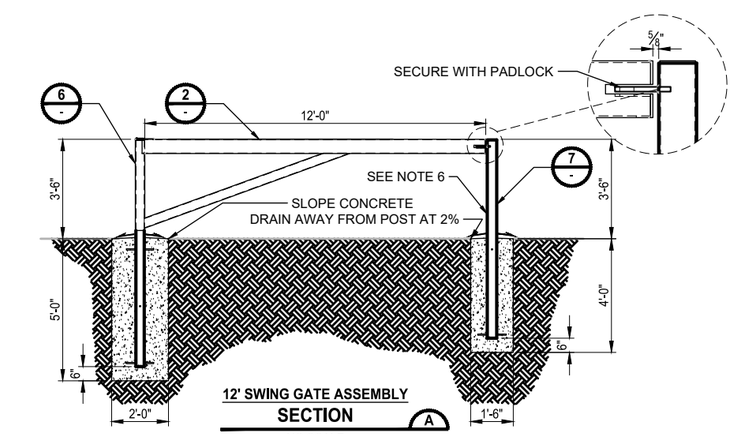
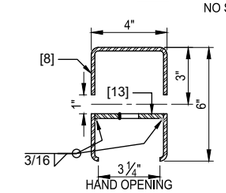


SWING GATE WELDMENT LOCK
DETAIL 5
NO SCALE



12' SWING GATE ASSEMBLY
SECTION A
NO SCALE



TOP RAIL LOCK
SECTION C
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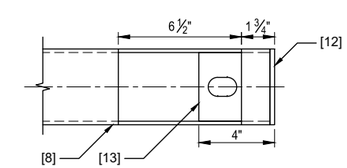

SWING GATE WELDMENT LOCK
SECTION D
NO SCALE

811
KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

GENERAL NOTES
1. WELDING SHALL CONFORM TO AWS D1.1
2. WELDMENT SHALL BE WHEEL-ABRATED OR SAND BLASTED TO NEAR WHITE, SSPC-10 PRIOR TO PAINTING .
3. GRIND SMOOTH ALL WELD SPLATTER, ROUGH EDGES AND SCABS.
4. GATE ASSEMBLY SHALL BE POWDER COATED WHITE AFTER WELDING.
5. CONCRETE WILL HAVE 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
6. POUR FOUNDATION WHILE THE SWING GATE WELDMENT & THE LOCK-LATCH STANCHION ARE LOCKED TOGETHER.
7. ALL DIMENSIONS SHOWN IN PARENTHESIS ARE REFERENCE DIMENSIONS.
8. NATIVE SUBGRADE AND/OR BACKFILL SURROUNDING THE GATE FOOTINGS SHALL BE COMPACTED TO FIRM AND UNYIELDING. FOOTING DESIGN MAY NEED TO BE ALTERED DEPENDING ON SITE SOIL CONDITIONS.

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

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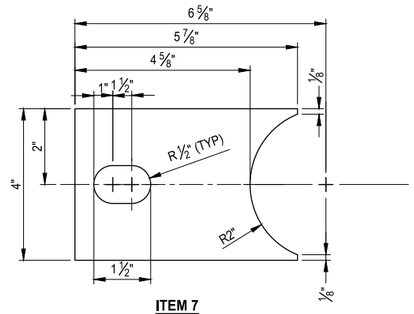
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

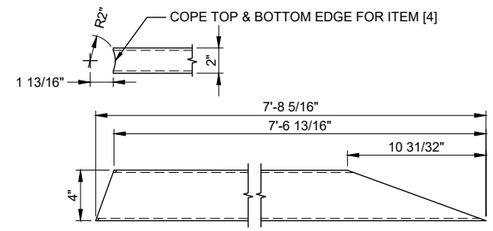
DETAILS

SHEET **58** OF **71** SHEETS

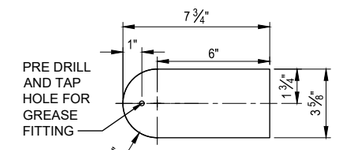
DD1



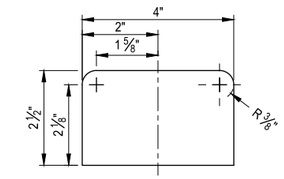
ITEM 7
DETAIL 1 DD1
NO SCALE



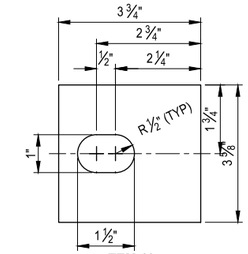
ITEM 9
DETAIL 3 DD1
NO SCALE



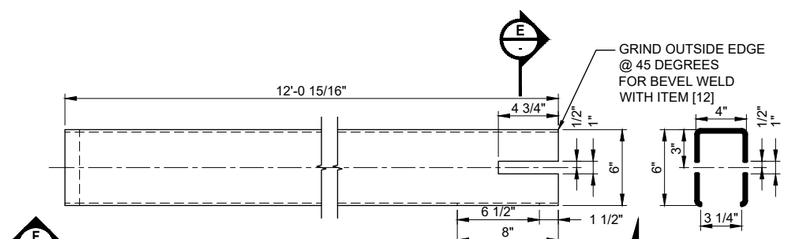
ITEM 11
DETAIL 4 DD1
NO SCALE



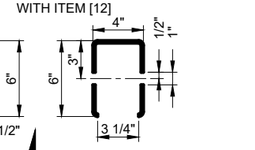
ITEM 12
DETAIL 5 DD1
NO SCALE



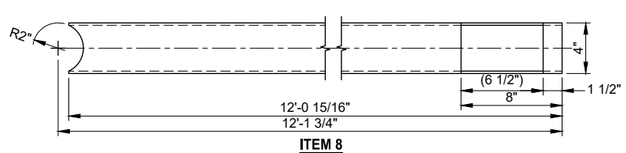
ITEM 13
DETAIL 6 DD1
NO SCALE



ITEM 8
DETAIL 2 DD1
NO SCALE



ITEM 8
SECTION E -
NO SCALE



ITEM 8
SECTION F -
NO SCALE

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

KNOW WHAT'S BELOW.
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(UTILITY LOCATIONS ARE APPROX.)

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APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

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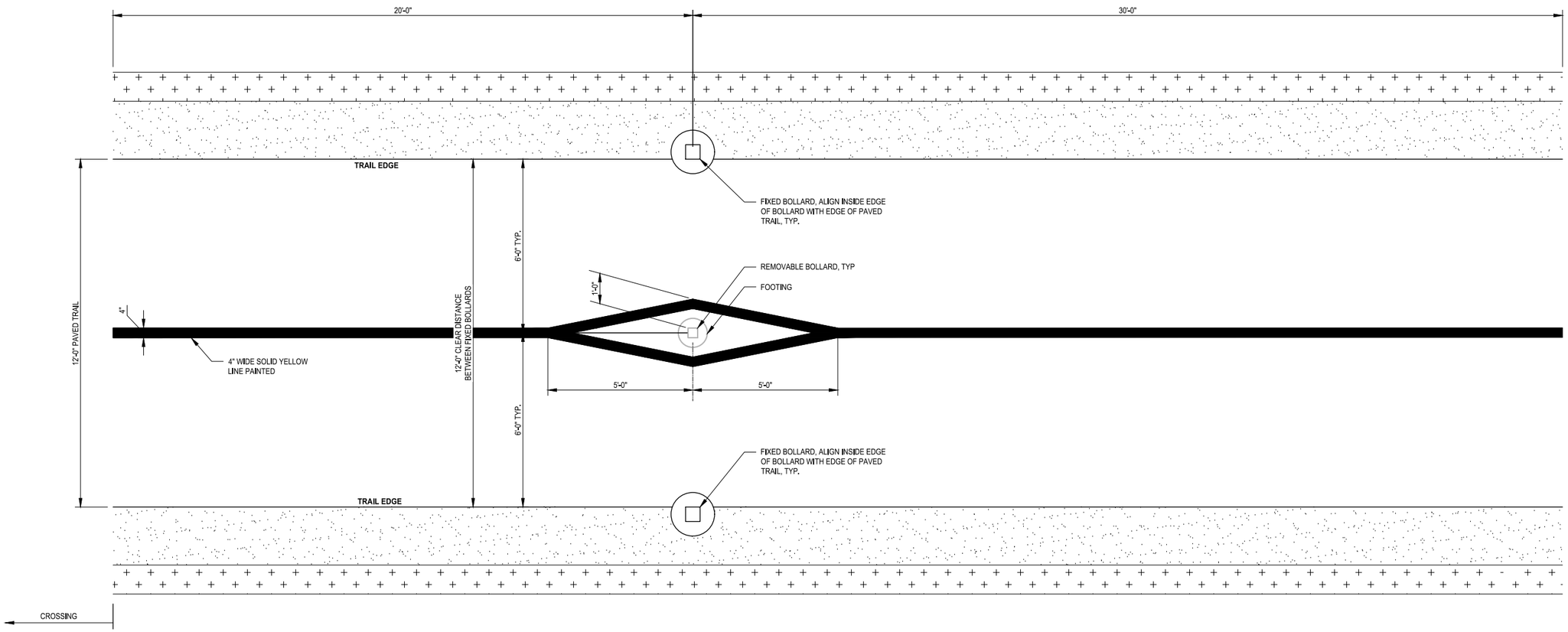
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

DETAILS

SHEET **59** OF **71** SHEETS

DD2



BOLLARD LAYOUT AND STRIPING (PLAN)
DETAIL 1 / DD3
NO SCALE

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

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GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
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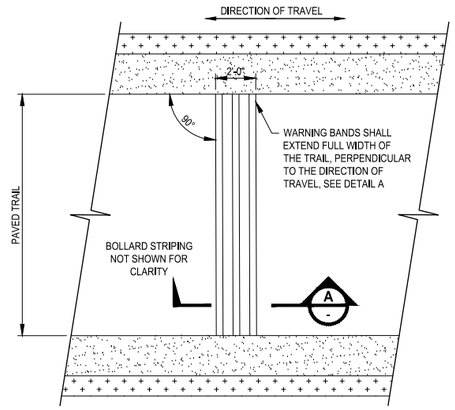
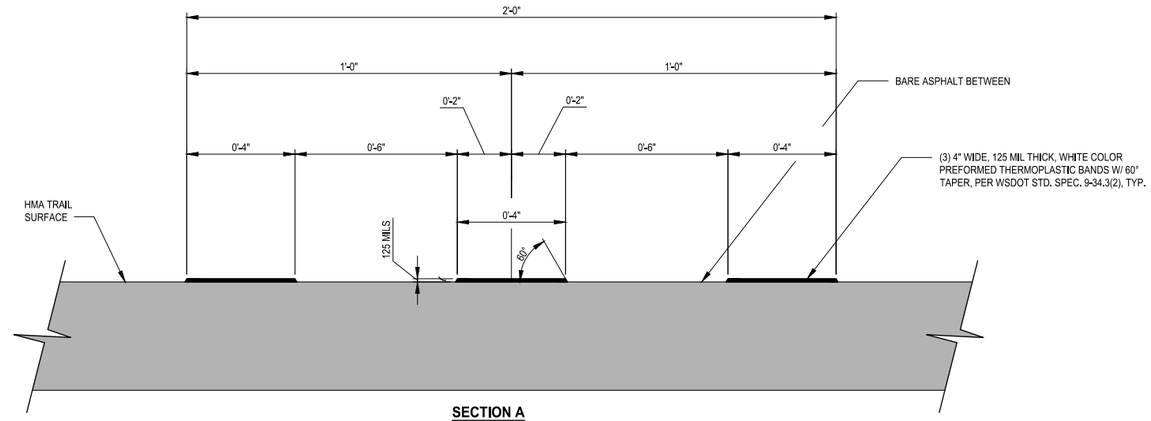
DETAILS

SHEET **60** OF **71** SHEETS

DD3





SECTION A

NOTES:

1. WARNING BANDS SHALL EXTEND FULL WIDTH OF THE PAVED TRAIL.
2. TRAIL PAVEMENT MARKINGS AND CERTAIN DETAILS AND DIMENSIONS ARE OMITTED FROM THESE PLANS FOR CLARITY.
3. INSTALLATION OF PAVEMENT MARKINGS SHALL CONFORM TO WSDOT STD. SPEC. 8-22.
4. ALL PAVEMENT MARKING MATERIAL SHALL MEET THE REQUIREMENTS OF WSDOT STD. SPEC. 9-34.
5. INSTALL WARNING BANDS PER MANUFACTURER'S RECOMMENDATIONS.

PREFORMED THERMOPLASTIC WARNING BAND

DETAIL 1 / DD4

NO SCALE

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DRAWN							ENG.	PARAMETRIX

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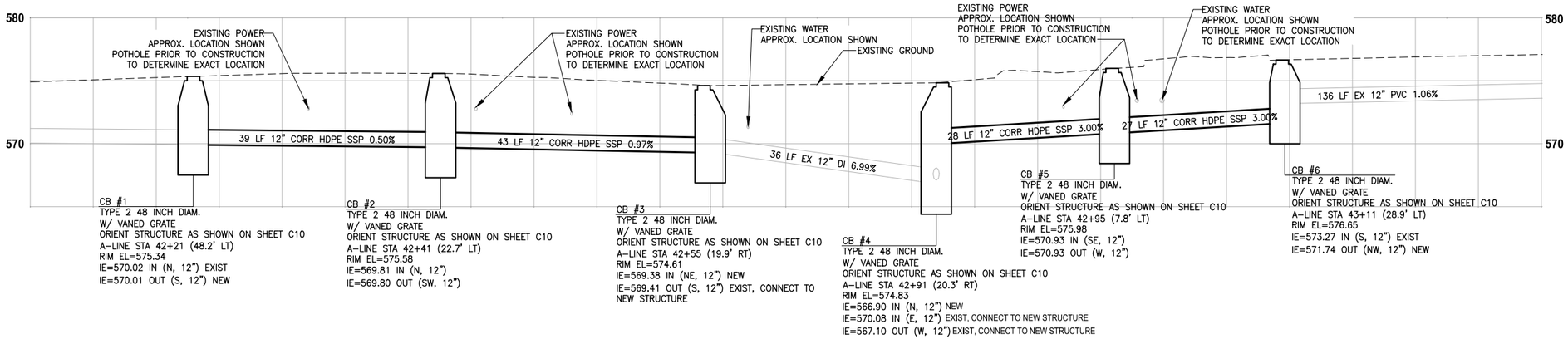
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

DETAILS

SHEET **61** OF **71** SHEETS

DD4

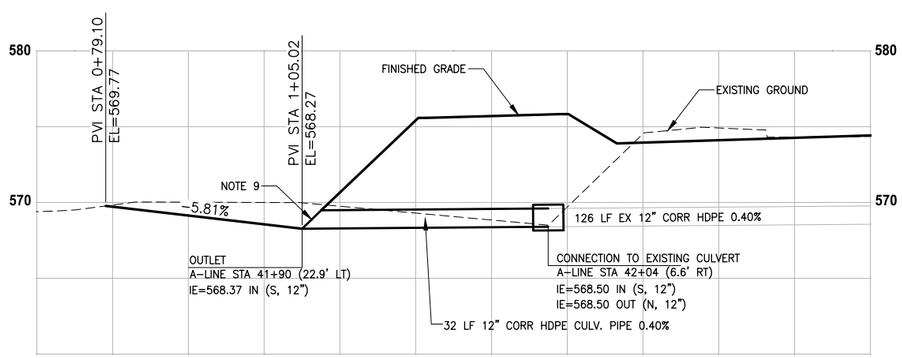


SD PROFILE 1 A-LINE STA 42+21 TO STA 43+11

HORIZ: 1" = 10'
VERT: 1" = 5'

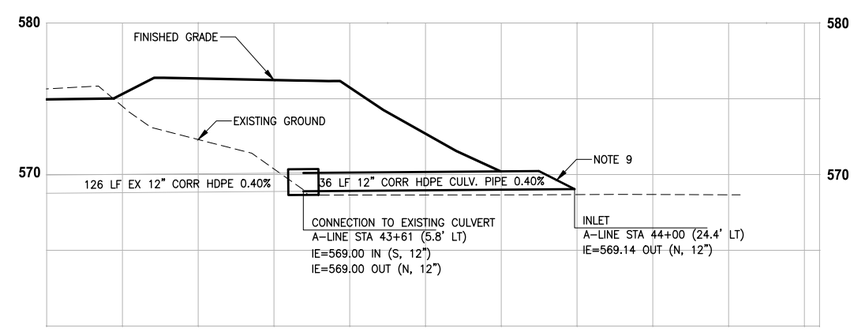
GENERAL STORMWATER NOTES:

1. CORR HDPE SSP = CORRUGATED POLYETHYLENE STORM SEWER PIPE.
2. CORR HDPE CULV. PIPE = CORRUGATED POLYETHYLENE CULVERT PIPE.
3. PVC = POLYVINYL CHLORIDE DRAIN PIPE PER WSDOT STANDARD SPECIFICATION 9-05.1(5).
4. VANED GRATES SHALL BE PER 2016 KCRS FIG 7-018.
5. CATCH BASIN TYPE 1 SHALL BE PER 2016 KCRS FIG. 7-003 .
6. CATCH BASIN TYPE 2 SHALL BE PER KCRS FIG. 7-005 AND FIG. 7-006.
7. STRUCTURE OFFSETS ARE MEASURED TO CENTER OF GRATE.
8. SPACING BETWEEN EXISTING UTILITY AND NEW STORM STRUCTURE/PIPE SHALL BE 6" MINIMUM.
9. CULVERTS IN FILL OR CUT SLOPES SHALL HAVE BEVELED END SECIONS PER 2016 KCRS FIG. 7-001.



SD PROFILE 2 A-LINE STA 41+91

HORIZ: 1" = 10'
VERT: 1" = 5'



SD PROFILE 3 A-LINE STA 44+00

HORIZ: 1" = 10'
VERT: 1" = 5'

811
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DRAWN							ENG.	PARAMETRIX

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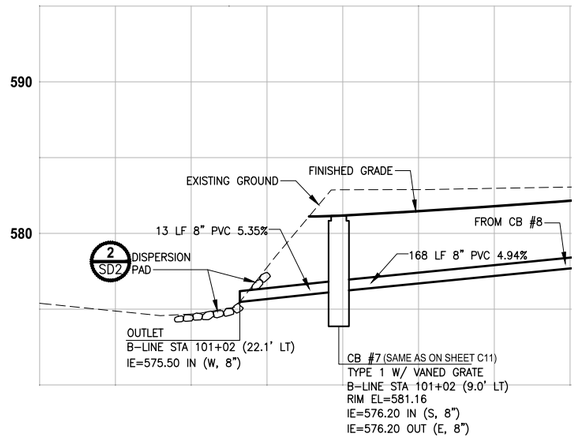
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

STORM DRAIN DETAILS

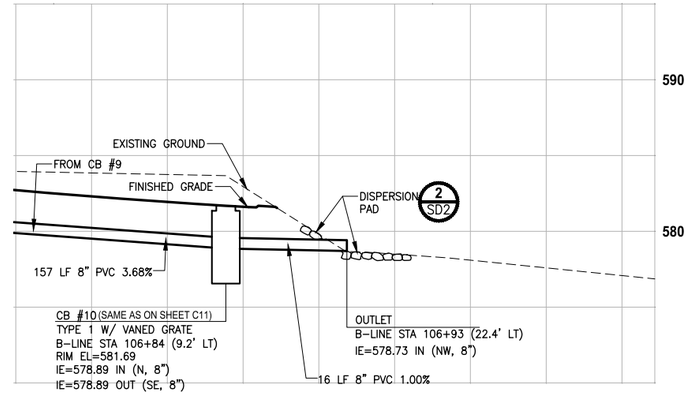
SHEET **62** OF **71** SHEETS

SD1



SD PROFILE 4 B-LINE STA 101+02

HORIZ: 1" = 10'
VERT: 1" = 5'



SD PROFILE 5 B-LINE STA 106+90

HORIZ: 1" = 10'
VERT: 1" = 5'

GENERAL STORMWATER NOTES:

1. CORR HDPE SSP = CORRUGATED POLYETHYLENE STORM SEWER PIPE.
2. CORR HDPE CULV. PIPE = CORRUGATED POLYETHYLENE CULVERT PIPE.
3. PVC = POLYVINYL CHLORIDE DRAIN PIPE PER WSDOT STANDARD SPECIFICATION 9-05.1(5).
4. VANED GRATES SHALL BE PER 2016 KCRS FIG 7-018.
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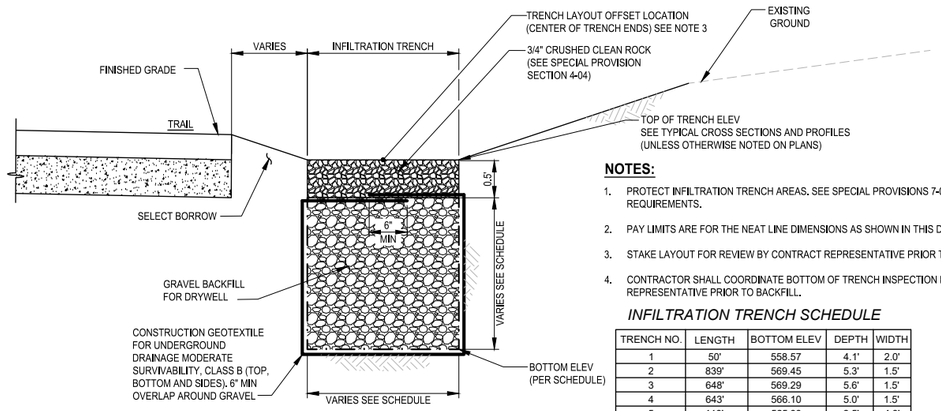
7. STRUCTURE OFFSETS ARE MEASURED TO CENTER OF GRATE.
8. SPACING BETWEEN EXISTING UTILITY AND NEW STORM STRUCTURE/PIPE SHALL BE 6" MINIMUM.
9. CULVERTS IN FILL OR CUT SLOPES SHALL HAVE BEVELED END SECIONS PER 2016 KCRS FIG. 7-001.



NOTES:

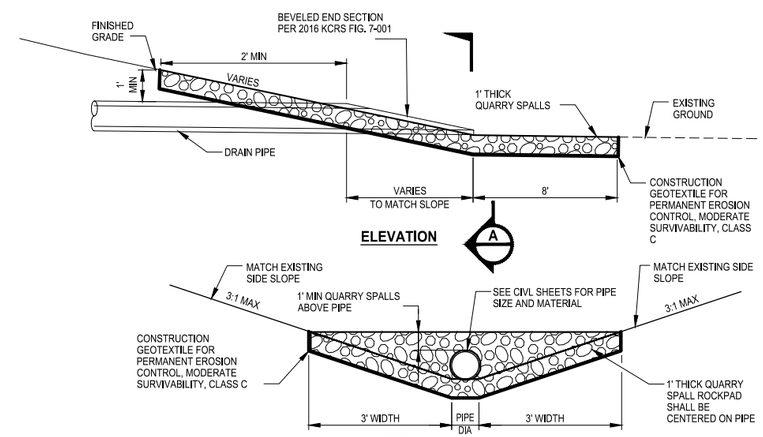
1. PROTECT INFILTRATION TRENCH AREAS. SEE SPECIAL PROVISIONS 7-01 FOR REQUIREMENTS.
2. PAY LIMITS ARE FOR THE NEAT LINE DIMENSIONS AS SHOWN IN THIS DETAIL.
3. STAKE LAYOUT FOR REVIEW BY CONTRACT REPRESENTATIVE PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE BOTTOM OF TRENCH INSPECTION BY CONTRACT REPRESENTATIVE PRIOR TO BACKFILL.

INFILTRATION TRENCH SCHEDULE

TRENCH NO.	LENGTH	BOTTOM ELEV	DEPTH	WIDTH
1	50'	558.57	4.1'	2.0'
2	839'	569.45	5.3'	1.5'
3	648'	569.29	5.6'	1.5'
4	643'	566.10	5.0'	1.5'
5	110'	565.00	3.5'	4.0'
6	364'	574.00	6.2'	1.5'

INFILTRATION TRENCH DETAIL 1

NOT TO SCALE



SECTION A

DISPERSION PAD DETAIL 2

NOT TO SCALE

811
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(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

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NICOLE CATHERINE ARGAO
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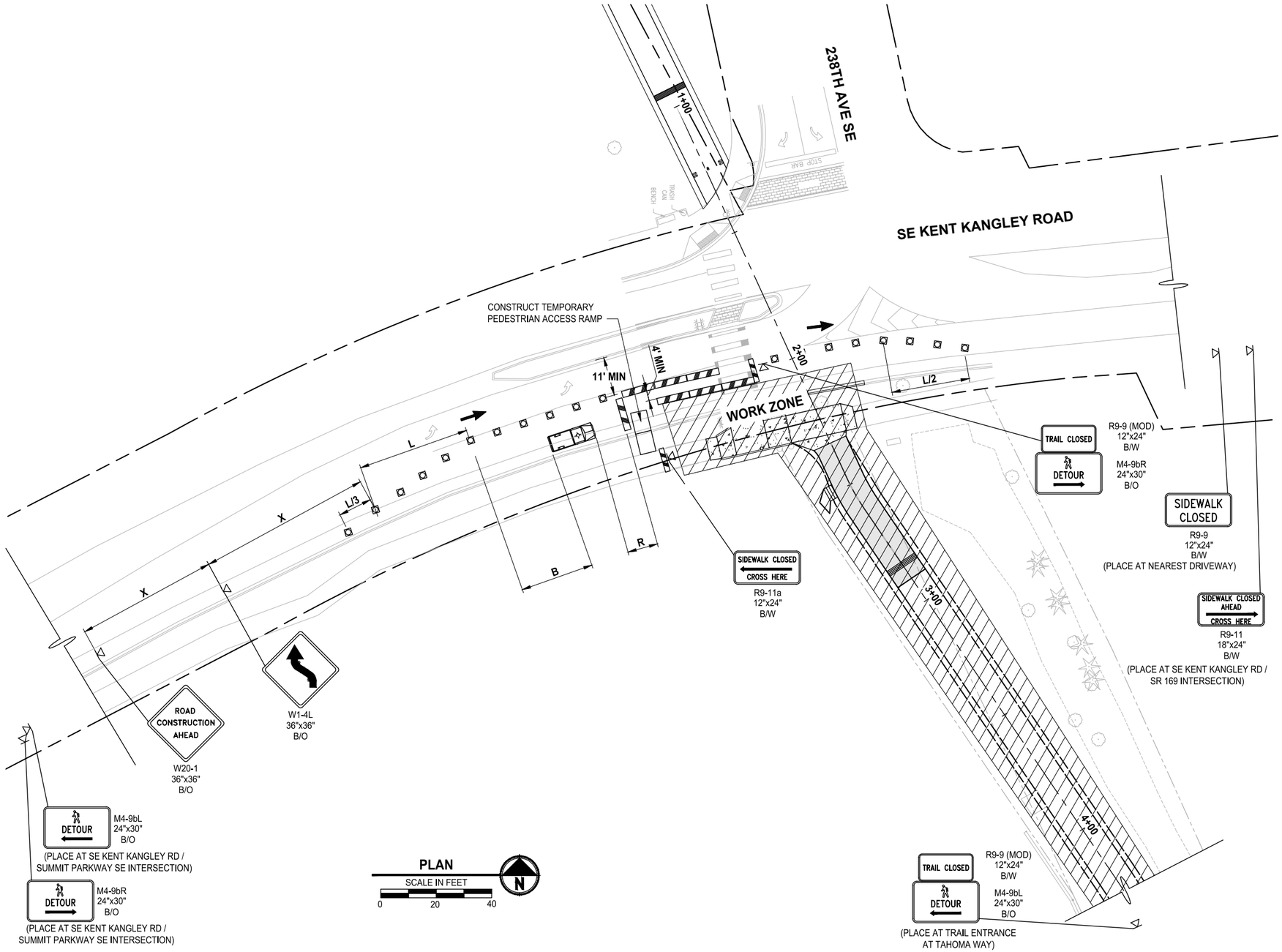
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

STORM DRAIN DETAILS

SHEET **63** OF **71** SHEETS

SD2



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE (WORK VEHICLE) = R
NO SPECIFIED DISTANCE REQUIRED

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

NOTES:

1. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
2. ALL SIGNS ARE BLACK ON ORANGE AND SHALL CONFORM TO THE MUTCD AND WSDOT SPECS, EXCEPT OTHERWISE NOTED.
3. ALLOWABLE LANE CLOSURE HOURS: 9AM-3PM MON-FRI.

LEGEND:

- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

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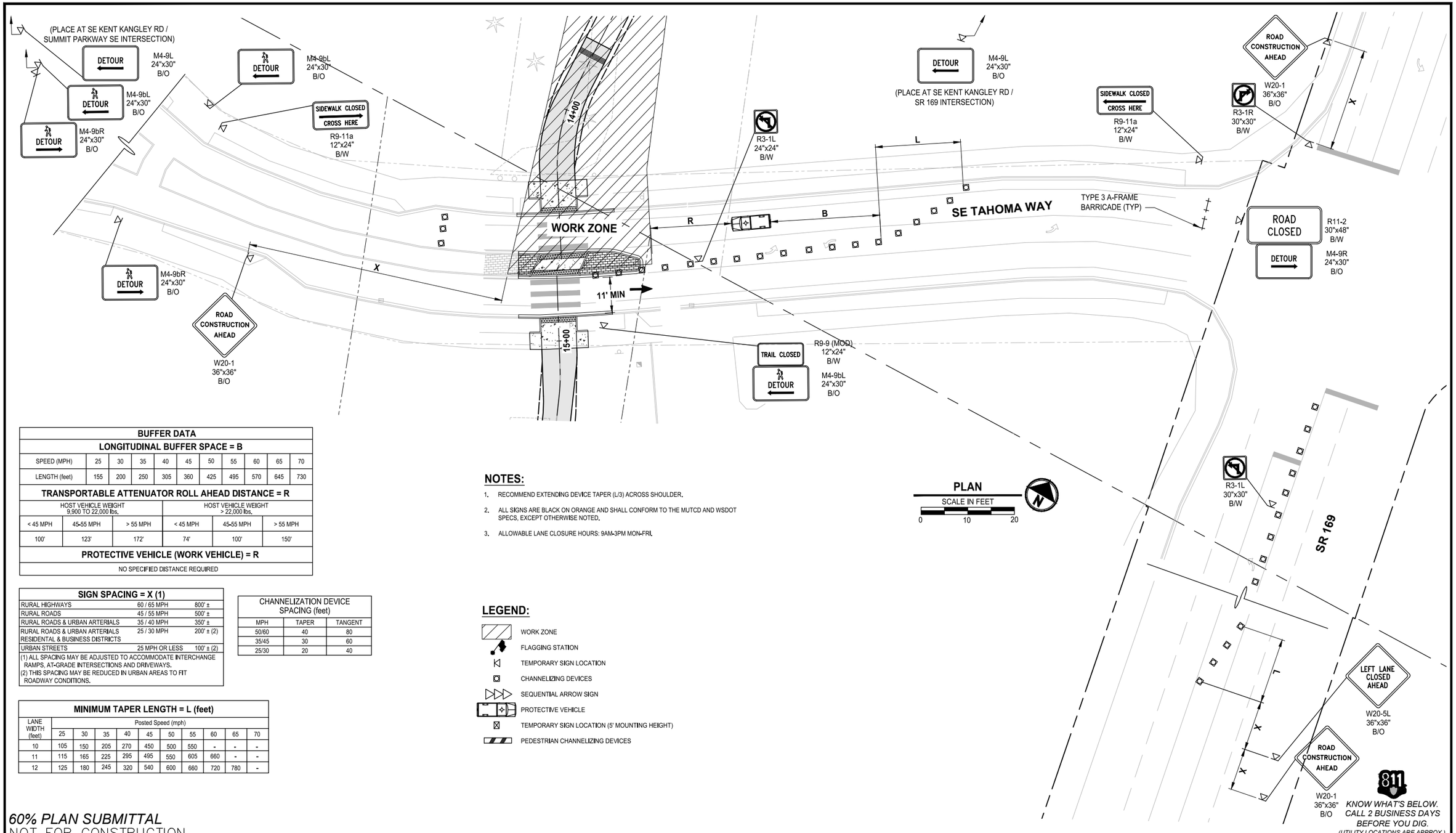
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **64** OF **71** SHEETS

TC1



PLAN

SCALE IN FEET

0 10 20

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
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RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

NOTES:

1. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
2. ALL SIGNS ARE BLACK ON ORANGE AND SHALL CONFORM TO THE MUTCD AND WSDOT SPECS, EXCEPT OTHERWISE NOTED.
3. ALLOWABLE LANE CLOSURE HOURS: 9AM-3PM MON-FRI.

LEGEND:

- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON · STATE OF WASHINGTON · 23005920 · REGISTERED PROFESSIONAL ENGINEER · PRELIMINARY

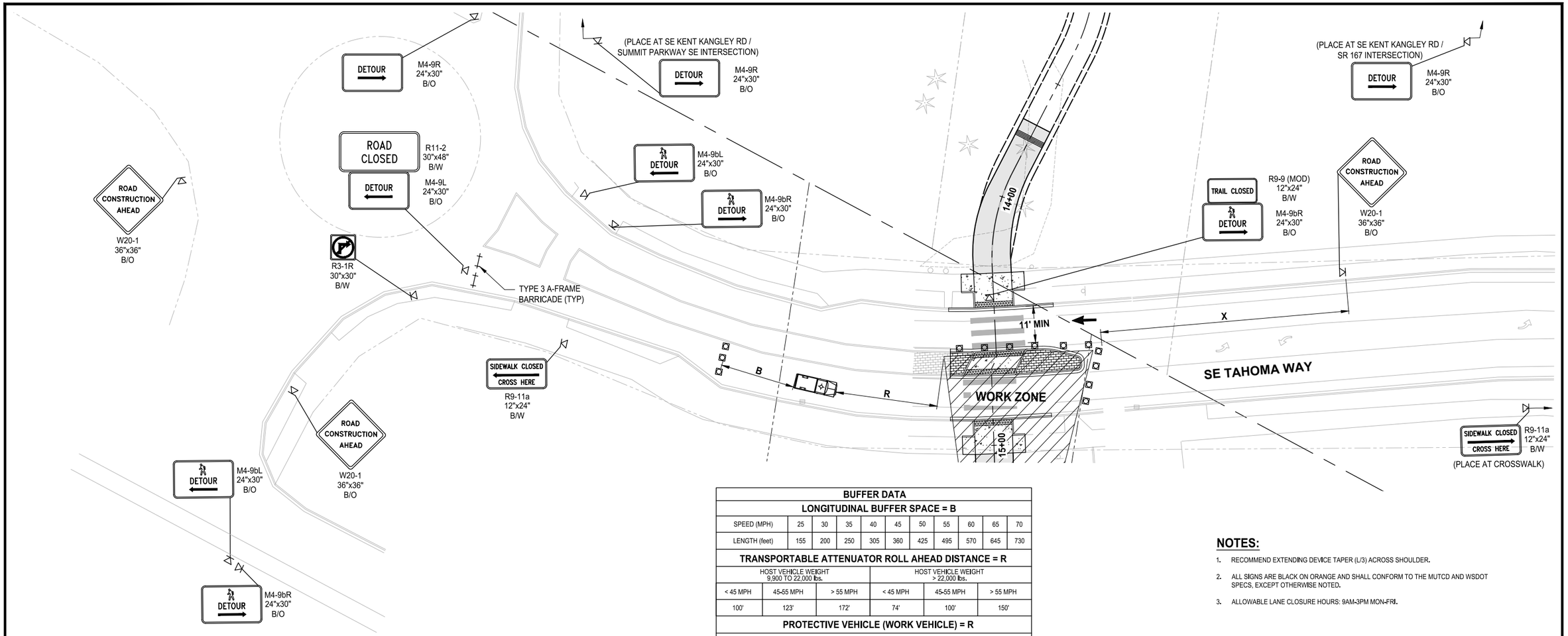
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **65** OF **71** SHEETS

TC2



PLAN

SCALE IN FEET

0 20 40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE (WORK VEHICLE) = R
NO SPECIFIED DISTANCE REQUIRED

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
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NOTES:

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3. ALLOWABLE LANE CLOSURE HOURS: 9AM-3PM MON-FRI.

LEGEND:

- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

811
KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

60% PLAN SUBMITTAL
NOT FOR CONSTRUCTION

GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED							STRUCT.	TRANTECH & PARAMETRIX
APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON
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23005920
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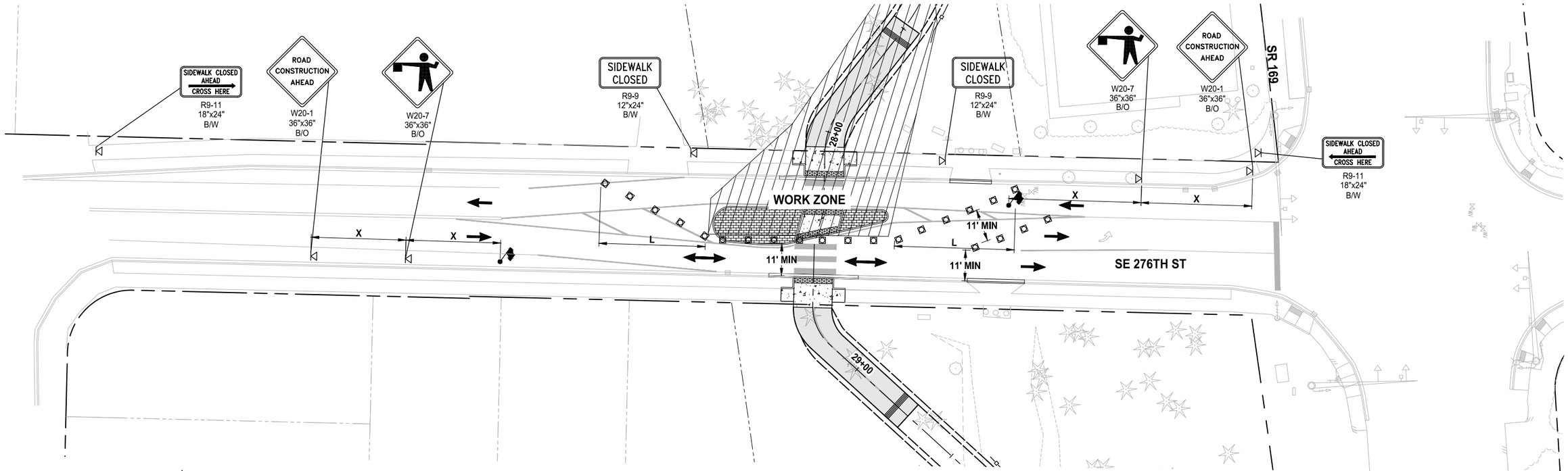
GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **66** OF **71** SHEETS

TC3



PLAN
SCALE IN FEET
0 20 40
N

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE (WORK VEHICLE) = R
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SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
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NOTES:

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3. ALLOWABLE LANE CLOSURE HOURS: 9AM-3PM MON-FRI.

LEGEND:

- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES
- PORTABLE CHANGEABLE MESSAGE SIGN

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(UTILITY LOCATIONS ARE APPROX.)

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GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
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APPROVED							CIVIL	PARAMETRIX
REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MATTESON
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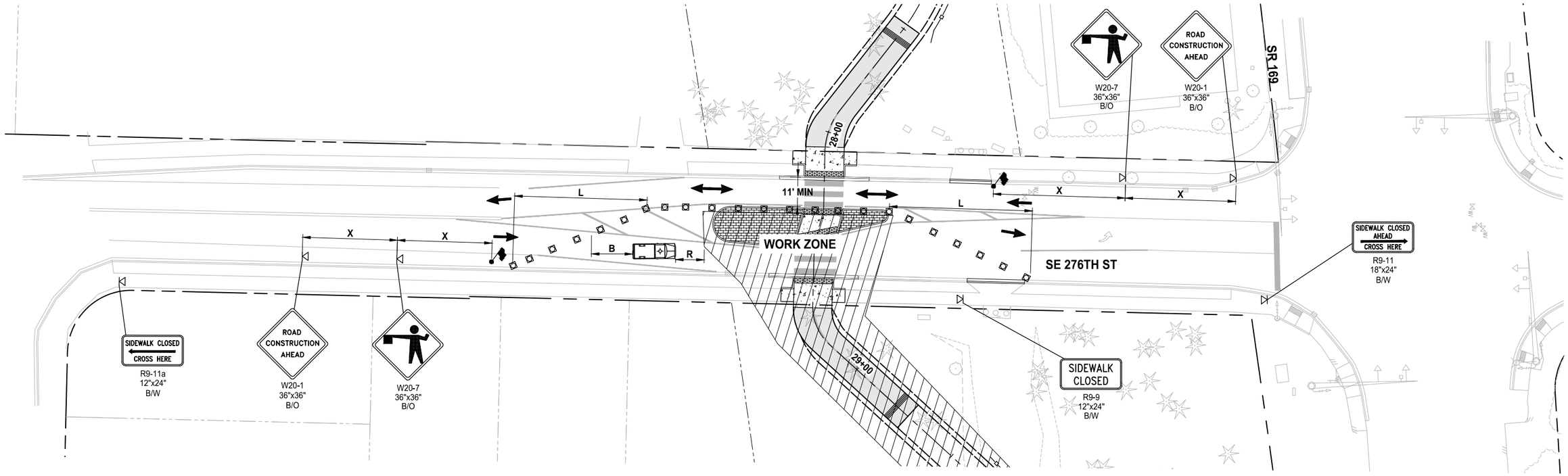
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

TC4



PLAN

SCALE IN FEET

0 20 40

N

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
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CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
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LEGEND:

- WORK ZONE
- FLAGGING STATION
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- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

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60% PLAN SUBMITTAL
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GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
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REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

TREVOR ALLAN MASTERSON
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23005920
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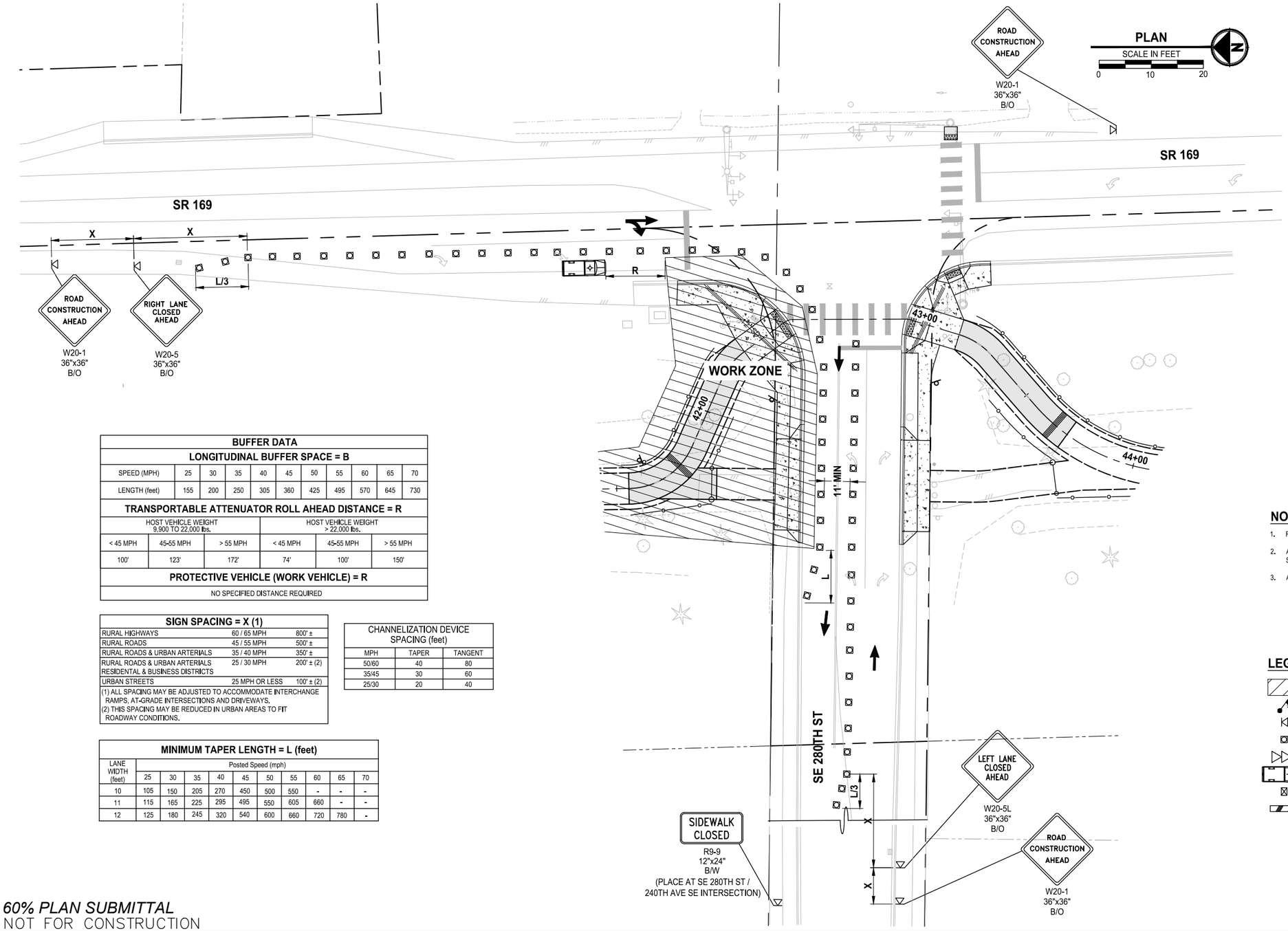
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **68** OF **71** SHEETS

TC5



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
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50/60	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
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LEGEND:

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- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

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GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
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REVIEWED							L.ARCH	PARAMETRIX
DRAWN							ENG.	PARAMETRIX

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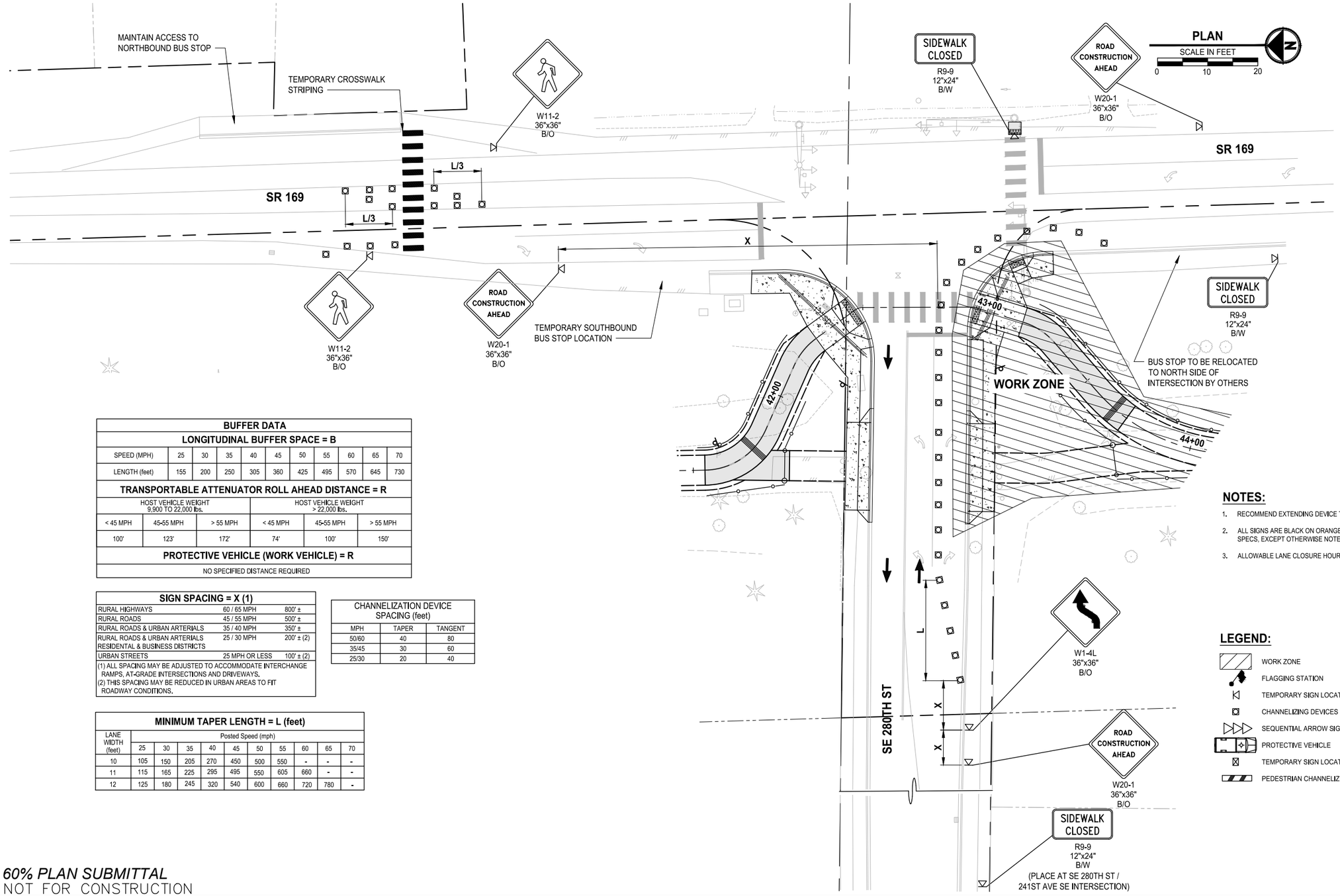
Christie True, Director

GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **69** OF **71** SHEETS

TC6



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
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35/45	30	60
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LEGEND:

- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

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GREEN TO CEDAR RIVERS TRAIL			PROJECT MANAGER: LINDA FRKUSKA, PLA				DESIGN TEAM	
PROJECT #	214-1521-231	10/2023	REV #	REVISION	BY	DATE	ARCH.	N/A
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DRAWN							ENG.	PARAMETRIX

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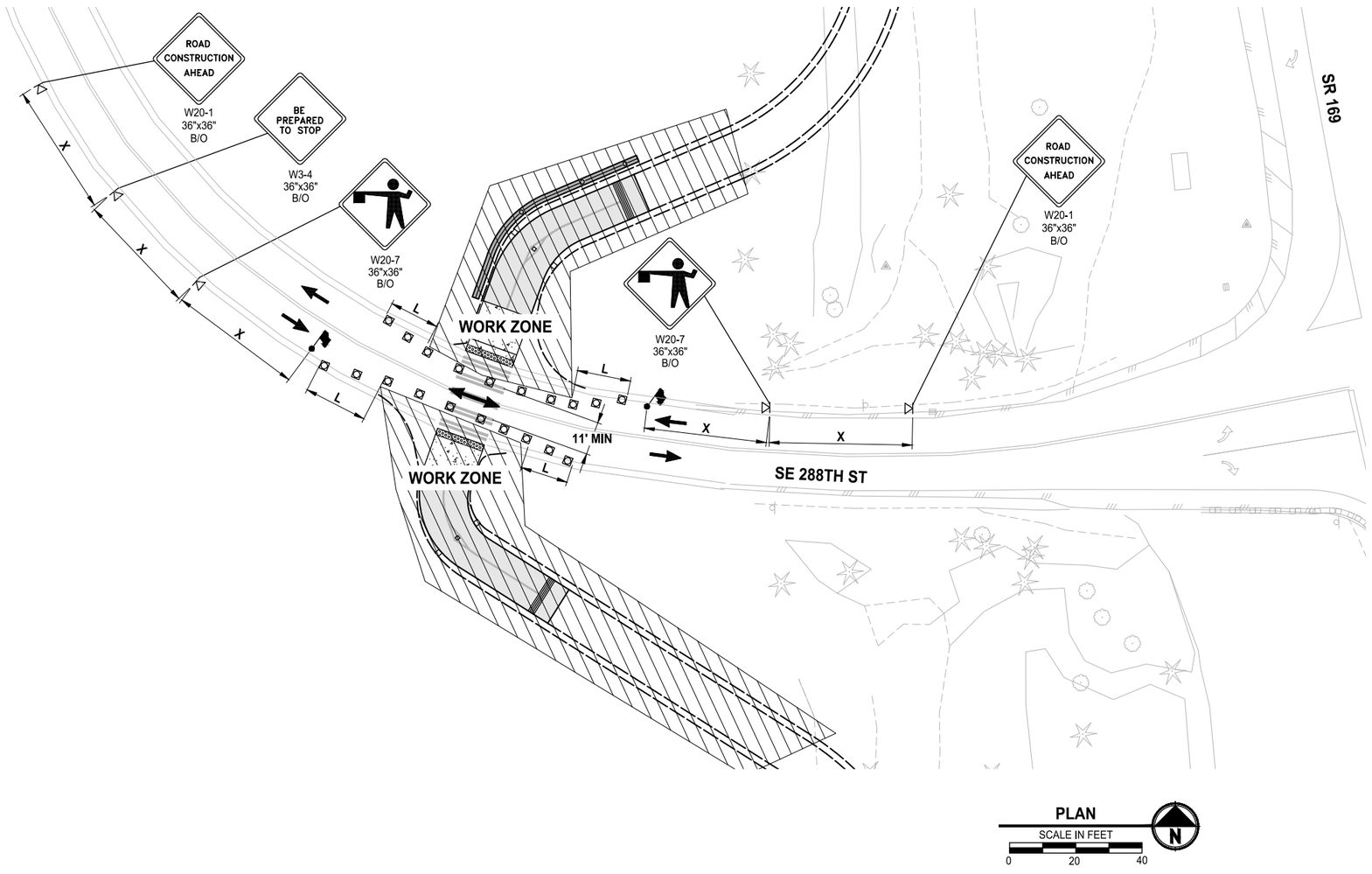
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **70** OF **71** SHEETS

TC7



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LONGITUDINAL BUFFER SPACE = B										
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- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
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- PROTECTIVE VEHICLE
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PEDESTRIAN CHANNELIZING DEVICES

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GREEN TO CEDAR RIVERS TRAIL
SOUTH INTERIM SEGMENT A
SE KENT KANGLEY RD TO BLACK DIAMOND OPEN SPACE

TRAFFIC CONTROL PLAN

SHEET **71** OF **71** SHEETS

TC8