

WASHINGTON STATE PARKS & RECREATION COMMISSION



APPROVED FOR CONSTRUCTION

Stephanie L. Simsek 7 May 2024
date

REGION MANAGER date

Kyle Murphy 5/7/2024
date

CAPITAL PROGRAM MANAGER date

SOPHIA DANENBERG, CHAIR

KEN BOUNDS

LAURIE CONNELLY

1 MICHAEL LATIMER

SCOTT MERRIMAN

ALI RAAD

HOLLY WILLIAMS

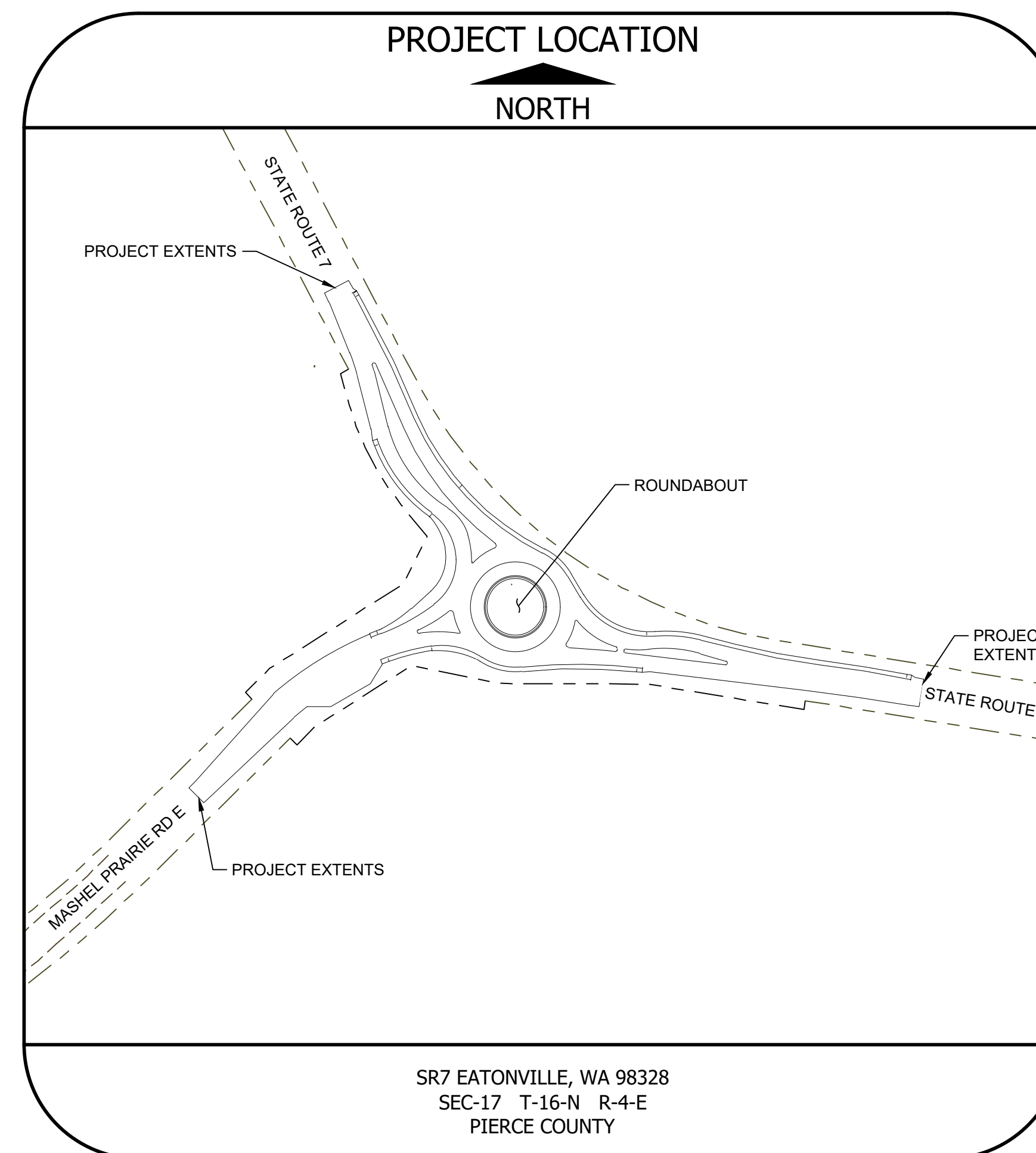
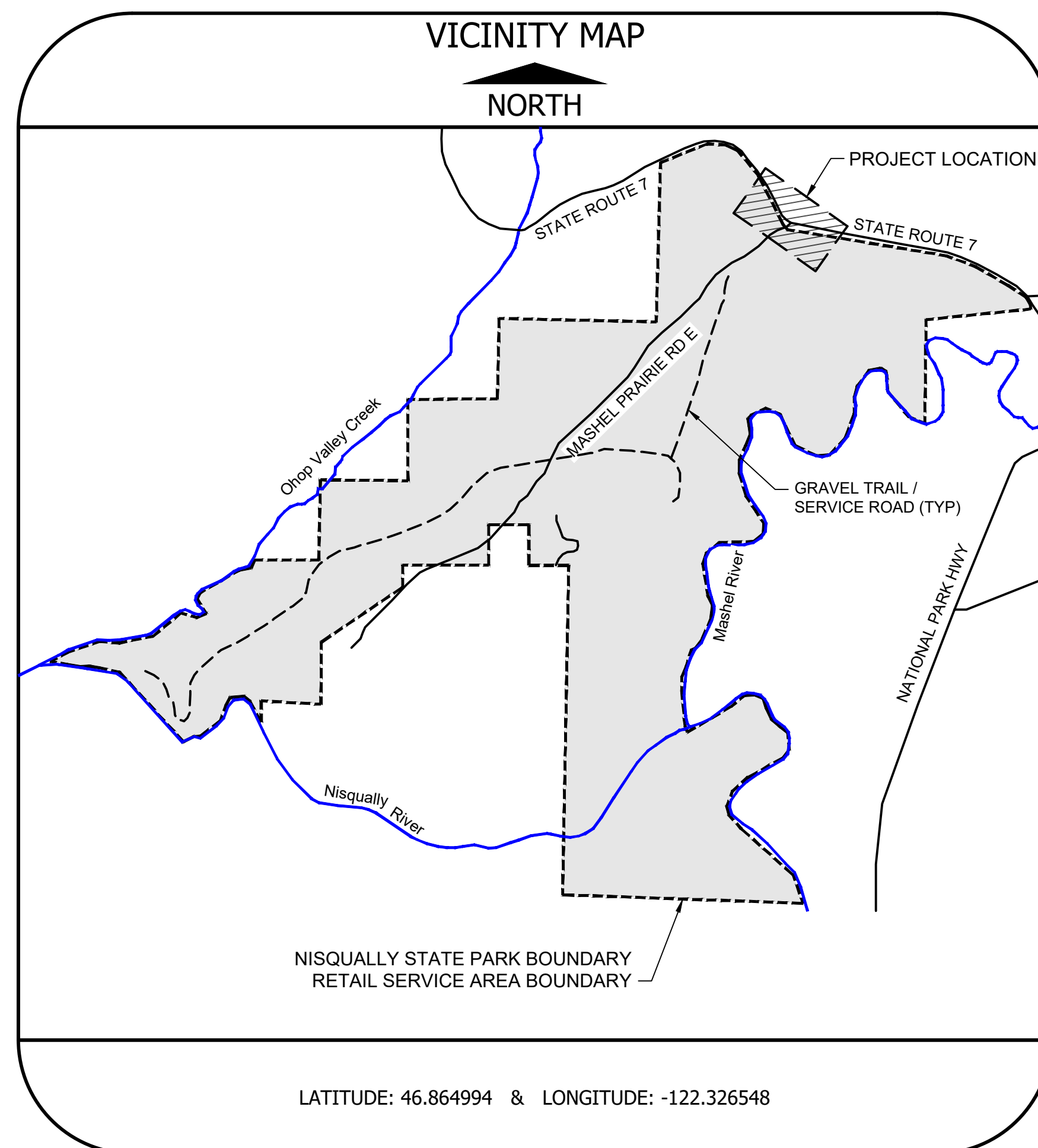
DIANA DUPUIS, DIRECTOR

Area Manager: Janet Halstead

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NISQUALLY STATE PARK PHASE 3C - ROUNDABOUT



CAD#: PARKCODE-PROJECTCODE-YEAR PROJECT TITLE = PROJECT MANAGER TO PROVIDE

PUBLIC IMPROVEMENTS

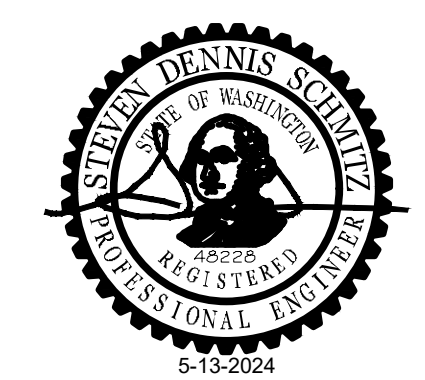
PERMIT # _____
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 DEVELOPMENT ENGINEER _____
 PIERCE COUNTY ORDINANCE NUMBER _____

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ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

GENERAL NOTES & PROJECT INFO

GN

SCALE

PARKS FILE#

PROJECT TEAM

OWNER: STATE OF WASHINGTON
 PARKS AND RECREATION COMMISSION
 1111 ISRAEL ROAD SW
 PO BOX 42650
 OLYMPIA, WA 98504
 www.parks.wa.gov

OWNER REPRESENTATIVE: WASHINGTON STATE PARKS AND RECREATION COMMISSION
 1111 ISRAEL ROAD SW
 PO BOX 42650
 OLYMPIA, WA 98504

PROJECT LEAD: ROBERT W. DROLL LANDSCAPE ARCHITECT, P.S.
 4405 7TH AVE SE, STE 203
 LACEY, WA 98503
 www.rwdroll.com

CIVIL ENGINEER: KPFF CONSULTING ENGINEERS
 612 WOODLAND SQ LP SE, STE 100
 lacey, wa 98503
 www.kpff.com

ELECTRICAL ENGINEER: CROSS ENGINEERS, INC.
 923 MARTIN LUTHER KING JR. WAY
 TACOMA, WA 98504
 www.crossengineers.com

LAND SURVEYOR: KPFF CONSULTING ENGINEERS
 612 WOODLAND SQ LP SE, STE 100
 LACEY, WA 98503
 www.kpff.com

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 CONSTRUCTION PROJECT ADMINISTRATOR
 TEL: (360)725-9763
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 bob@rwdroll.com

STEVE SCHMITZ, PE
 ASSOCIATE
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 steve.schmitz@kpff.com

GENE WENTWORTH
 PRINCIPAL
 TEL: (253)7590118
 genew@crossengineers.com

JEREME CHAPMAN, PLS
 PRINCIPAL
 TEL: (360)292-7230
 jereme.chapman@kpff.com

GENERAL NOTES

- EROSION AND SEDIMENTATION CONTROL (ESC) MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH THE APPROVED PLANS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS BY THE COUNTY OR OTHER GOVERNING AUTHORITY OR AGENCY AS MAY BE APPLICABLE.
- WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS 1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SAW CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT. A SAND BLANKET SHALL BE APPLIED TO THE SURFACE TO MINIMIZE "TRACKING" OF SAME.
- FORM AND SUBGRADE INSPECTION BY THE OWNER IS REQUIRED BEFORE POURING CONCRETE. A MINIMUM TWO (2) WORKING DAYS NOTICE ARE REQUIRED TO BE PROVIDED TO THE INSPECTOR FOR FORM INSPECTION.
- ALL STREETS, CURB AND GUTTERS, SIDEWALKS, AND ASSOCIATED APPURTENANCES SHALL BE CLEANED TO THE SATISFACTION OF THE COUNTY PRIOR TO FINAL ACCEPTANCE.
- CALL UNDERGROUND LOCATE LINE AT 1-800-424-5555 (OR 811) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST EDITION.

ABBREVIATIONS

AP	ANGLE POINT	PCC	POINT OF COMPOUND CURVE
APPROX	APPROXIMATELY	PI	POINT OF INTERSECTION
BOA	BACK OF ASPHALT	POC	POINT OF CONNECTION
BOC	BACK OF CURB	PRC	POINT OF REVERSE CURB
CB	CATCH BASIN	PROP	PROPOSED
CO	CLEANOUT	PT	POINT OF TANGENT
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	R	RANGE, RADIUS
DWG	DRAWING	RD	ROOF DRAIN, ROAD
E	EAST, EASTING	ROW	RIGHT-OF-WAY
ELEV, ELV	ELEVATION	S	SOUTH, SLOPE
EOA	EDGE OF ASPHALT	SCH	SCHEDULE
EP	EDGE OF PAVEMENT	SE	SOUTHEAST
EX	EXISTING	SEC	SECTION
FOC	FACE OF CURB	SF	SQUARE FEET
FT	FEET	SD	STORM DRAIN
GA	GAUGE	SPEC	SPECIFICATION
GRVL	GRAVEL	ST	STREET
HORIZ, HORZ	HORIZONTAL	STA	STATION
IE	INVERT ELEVATION	STD	STANDARD
LF	LINEAR FEET	SW	SOUTHWEST
MAX	MAXIMUM	T	TOWNSHIP
MIN	MINIMUM	TYP	TYPICAL
MPR	MASHEL PRAIRIE ROAD	VERT	VERTICAL
N	NORTH, NORTHING	VC	VERTICAL CURVE
NE	NORTHEAST	VPC	VERTICAL POINT OF CURVE
NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
NTS	NOT TO SCALE	VPT	VERTICAL POINT OF TANGENT
NW	NORTHWEST	W	WEST
PC	POINT OF CURVE	WI	WITH

LEGEND

	ALIGNMENT CENTERLINE
	RIGHT OF WAY LINE
	HMA CLASS 1/2" PG 58H-22
	ASPHALT TRUCK APRON
	2' GRAVEL EDGE
	CURB 1 - TRUCK APRON
	CURB 2 - CEMENT CONCRETE CURB & GUTTER
	CURB 3 - CENTRAL ISLAND CURB
	EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	WIDE EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	WIDE DOTTED ENTRY LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	DOUBLE CENTERLINE STRIPING (WSDOT STD PLAN M-20.10-04)
	STORM DRAIN
	CATCH BASIN TYPE 1
	CATCH BASIN TYPE 2
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	MAJOR CONTOUR
	MINOR CONTOUR
	LIGHT STANDARD
	LIGHT CONTROL PANEL
	SIGN - SINGLE POST MOUNT
	SIGN - DOUBLE POST MOUNT

SURVEY LEGEND

	FOUND MONUMENT AS NOTED
	SURVEY CONTROL POINT
	POWER POLE
	TELECOMMUNICATIONS PEDESTAL
	TELECOMMUNICATIONS VAULT
	ANCHOR
	SIGN
	CONIFER AS NOTED
	DECIDUOUS AS NOTED
	WETLAND FLAG AS NOTED
	EDGE OF GRAVEL
	EDGE OF ASPHALT
	TELECOMMUNICATIONS LINE
	OVERHEAD POWER LINE
	RIGHT OF WAY LINE

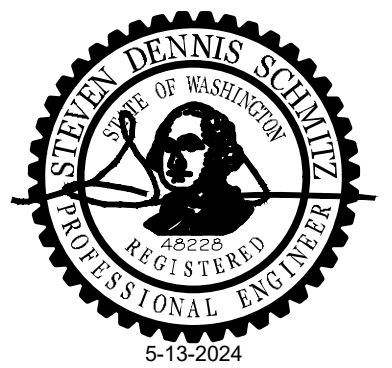
PUBLIC IMPROVEMENTS

PERMIT # _____ DATE _____
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WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

ALIGNMENT & ROW PLAN

AL

SCALE 1" = 40'

PARKS FILE#

SR7 ALIGNMENT

LINE #	LENGTH	BEARING
L1	204.04'	S27° 36' 28"E
L2	228.11'	S82° 18' 41"E
L3	81.53'	S80° 46' 13"E

CURVE TABLE

CURVE #	RADIUS	LENGTH	Δ DELTA
C1	350.00'	72.55'	011°52'38"
C2	320.00'	175.20'	031°22'11"
C3	215.00'	120.19'	032°01'51"
C4	275.00'	132.38'	027°34'56"
C5	2,110.00'	85.98'	002°20'05"

MASHEL PRAIRIE ROAD ALIGNMENT

LINE #	LENGTH	BEARING
L4	166.47'	N45° 21' 15"E
L5	101.73'	N75° 21' 07"E
L6	85.46'	N36° 42' 39"E

CURVE TABLE

CURVE #	RADIUS	LENGTH	Δ DELTA
C6	375.00'	196.34'	029°59'52"

CONTROL POINT (CP) TABLE

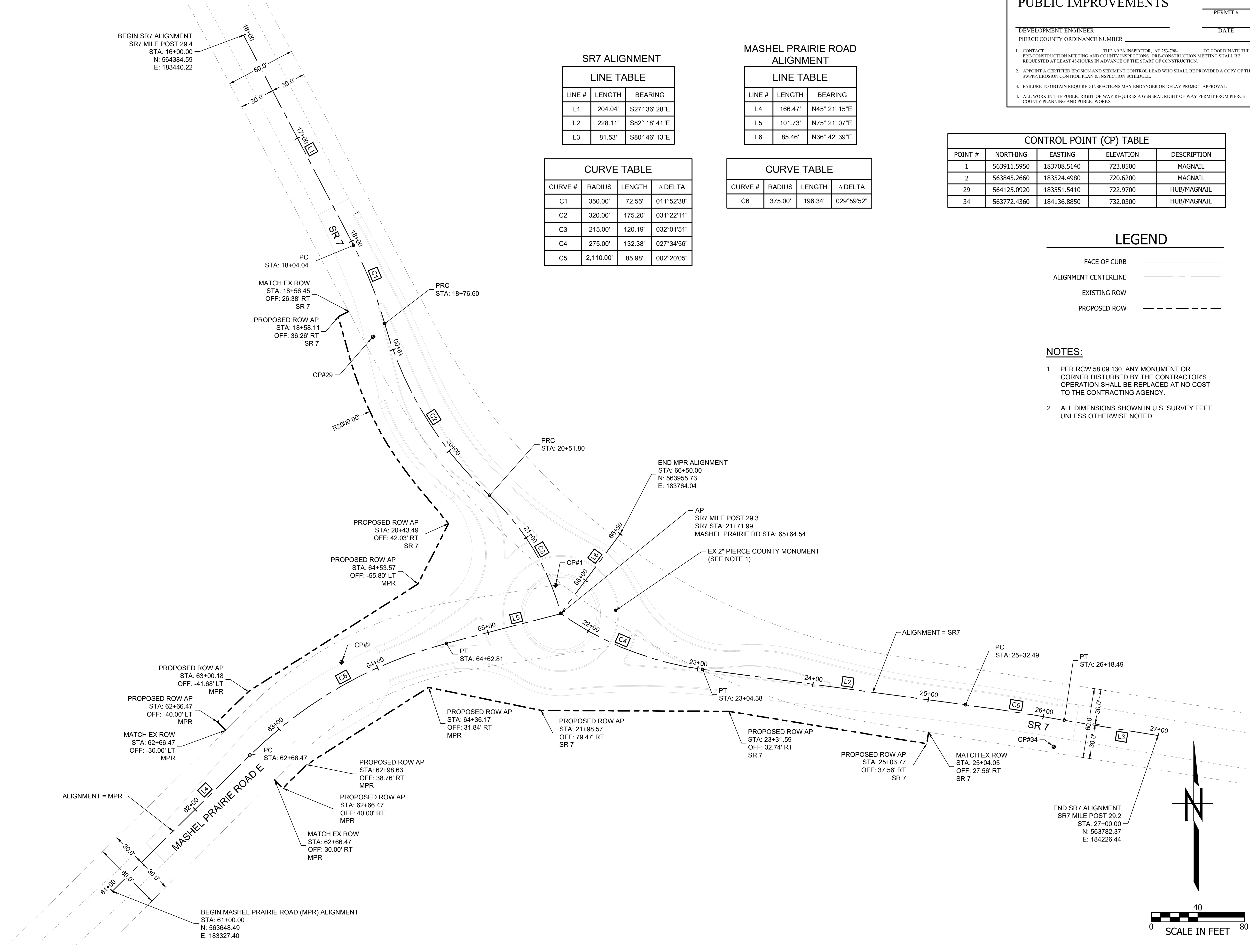
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	563911.5950	183708.5140	723.8500	MAGNAIL
2	563845.2660	183524.4980	720.6200	MAGNAIL
29	564125.0920	183551.5410	722.9700	HUB/MAGNAIL
34	563772.4360	184136.8850	732.0300	HUB/MAGNAIL

LEGEND

- FACE OF CURB ————
- ALIGNMENT CENTERLINE ————
- EXISTING ROW - - - - -
- PROPOSED ROW - - - - -

NOTES:

1. PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.
2. ALL DIMENSIONS SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.



BEGIN SR7 ALIGNMENT
 SR7 MILE POST 29.4
 STA: 16+00.00
 N: 564384.59
 E: 183440.22

END MPR ALIGNMENT
 STA: 66+50.00
 N: 563955.73
 E: 183764.04

END SR7 ALIGNMENT
 SR7 MILE POST 29.2
 STA: 27+00.00
 N: 563782.37
 E: 184226.44

BEGIN MASHEL PRAIRIE ROAD (MPR) ALIGNMENT
 STA: 61+00.00
 N: 563648.49
 E: 183327.40

PUBLIC IMPROVEMENTS

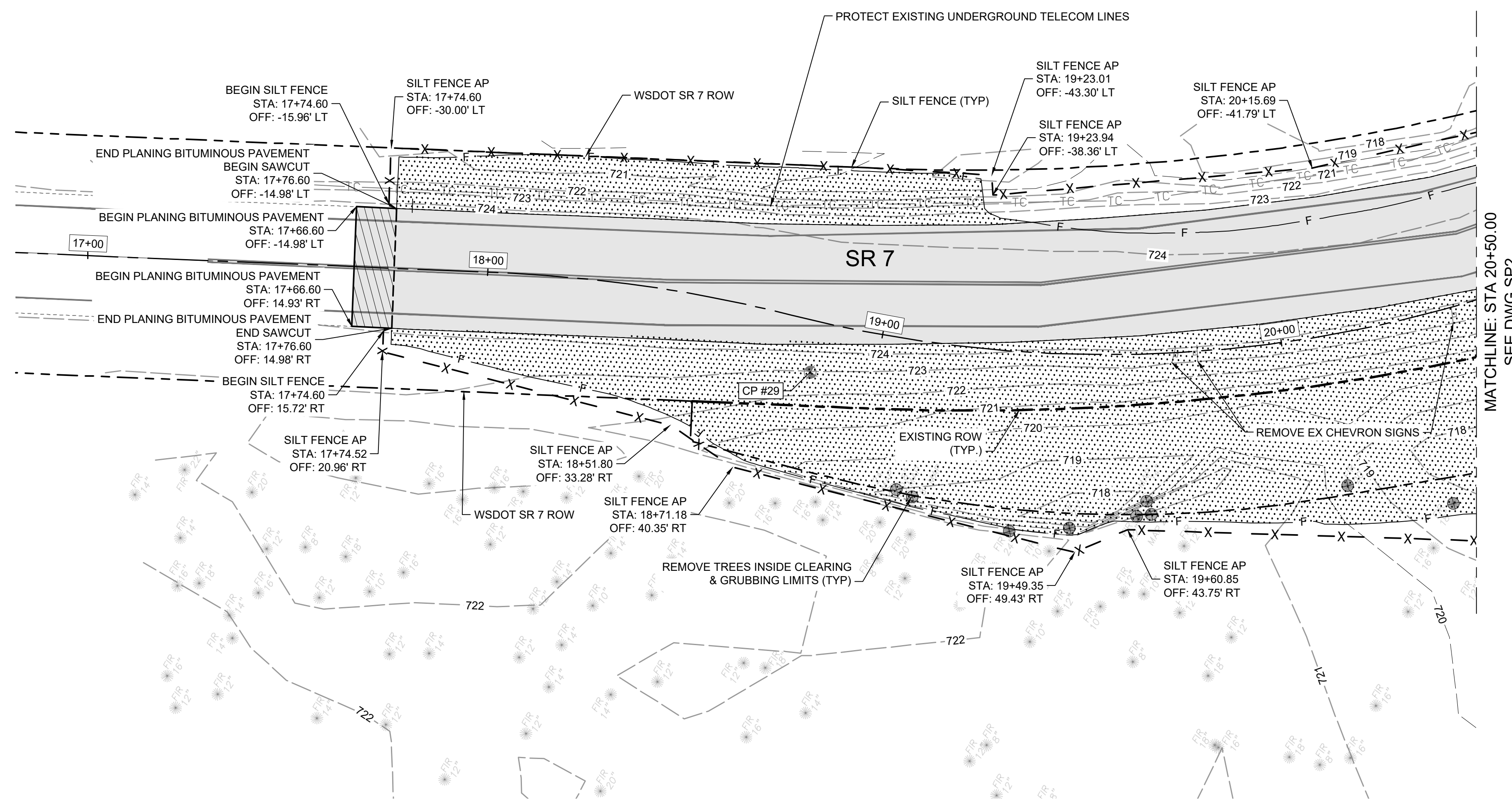
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DEMO LEGEND

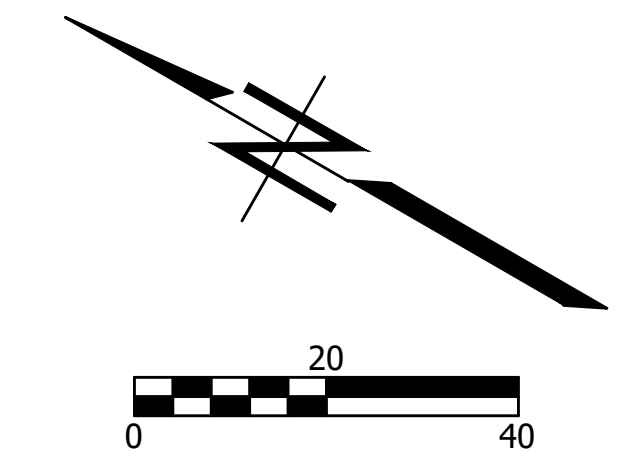
	DEMOLITION ITEM
	PAVEMENT REMOVAL
	PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
	RIGHT-OF-WAY LINE
	ALIGNMENT
	CLEAR AND GRUB AREA
	FILL LINE
	CUT LINE
	SILT FENCE (PER WSOT STD PLAN I-30.10)
	SAWCUT

NOTES:

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MATCHLINE: STA 20+50.00
SEE DWG SP2



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PHASE 3C - ROUNDABOUT

SITE PREPARATION & TESC PLAN (SR7 17+25 TO 20+50)

SP1

SCALE
1" = 20'

PARKS FILE#

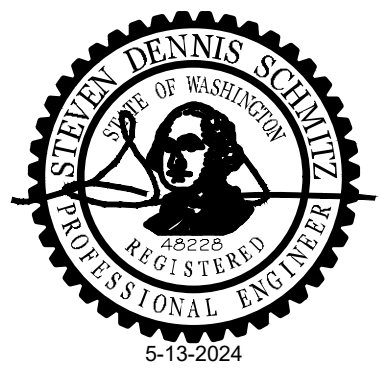
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PHASE 3C - ROUNDABOUT

SITE PREPARATION & TESC PLAN (SR 7 20+50 TO 23+00)

SP2

SCALE
1" = 20'

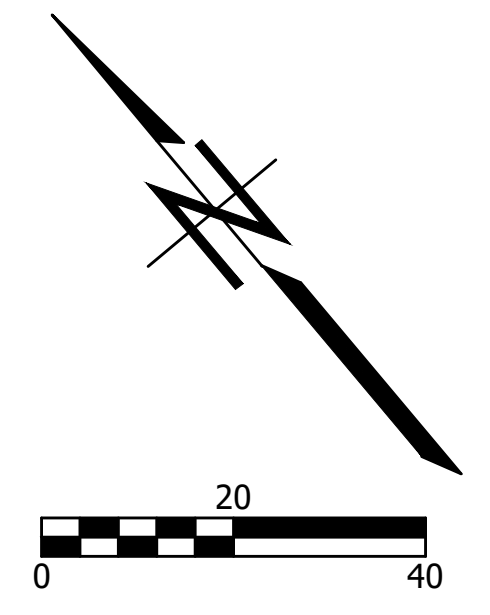
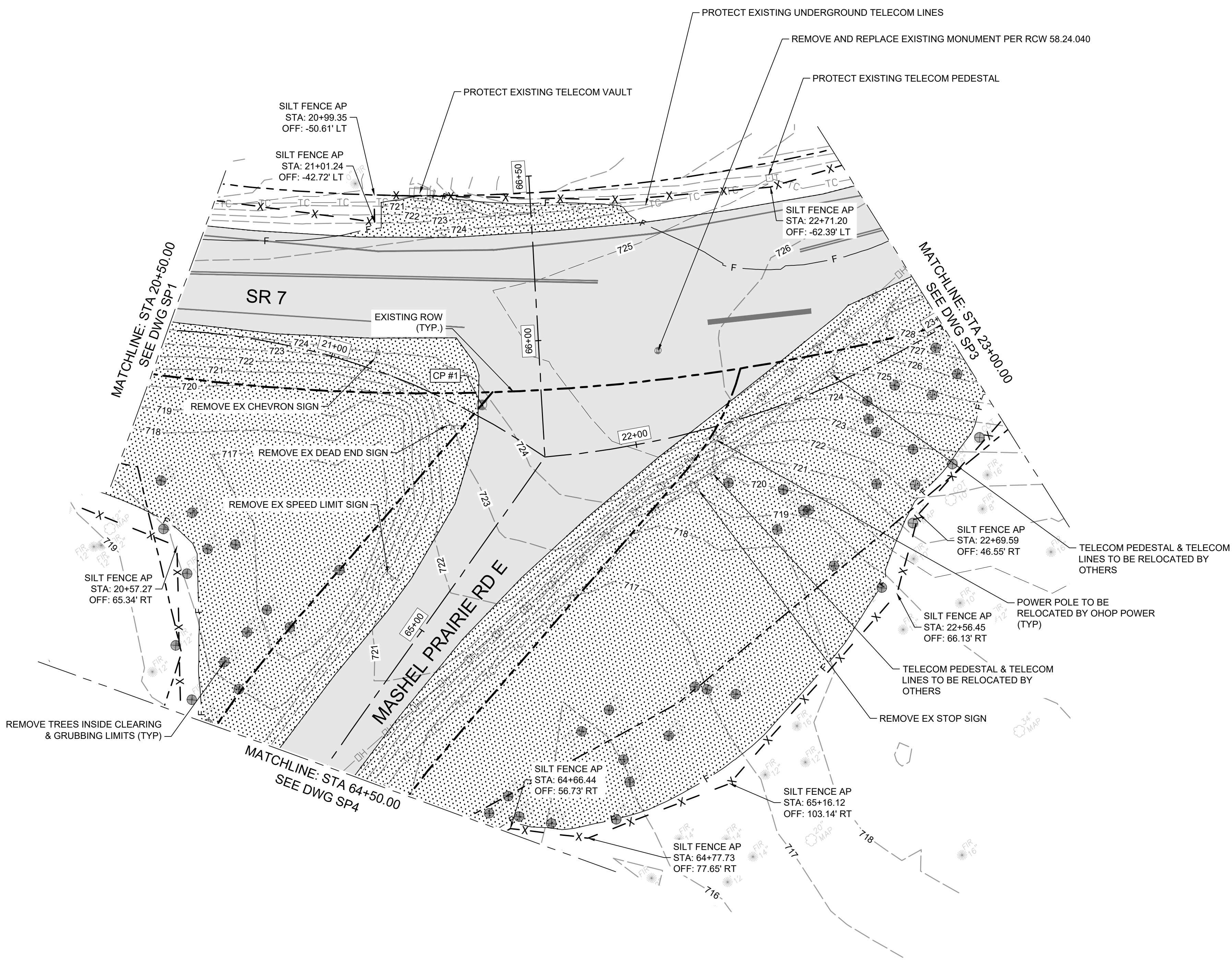
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DEMO LEGEND

- DEMOLITION ITEM
- PAVEMENT REMOVAL
- PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- RIGHT-OF-WAY LINE
- ALIGNMENT
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- C CUT LINE
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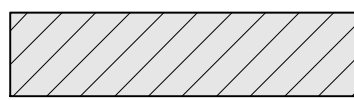

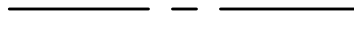

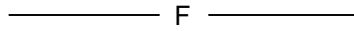


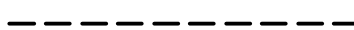
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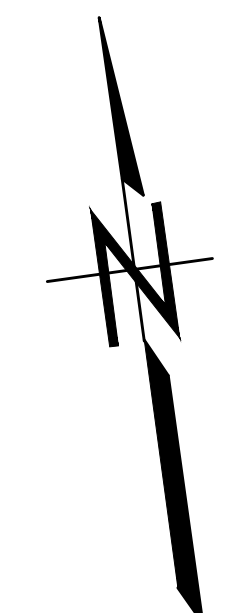
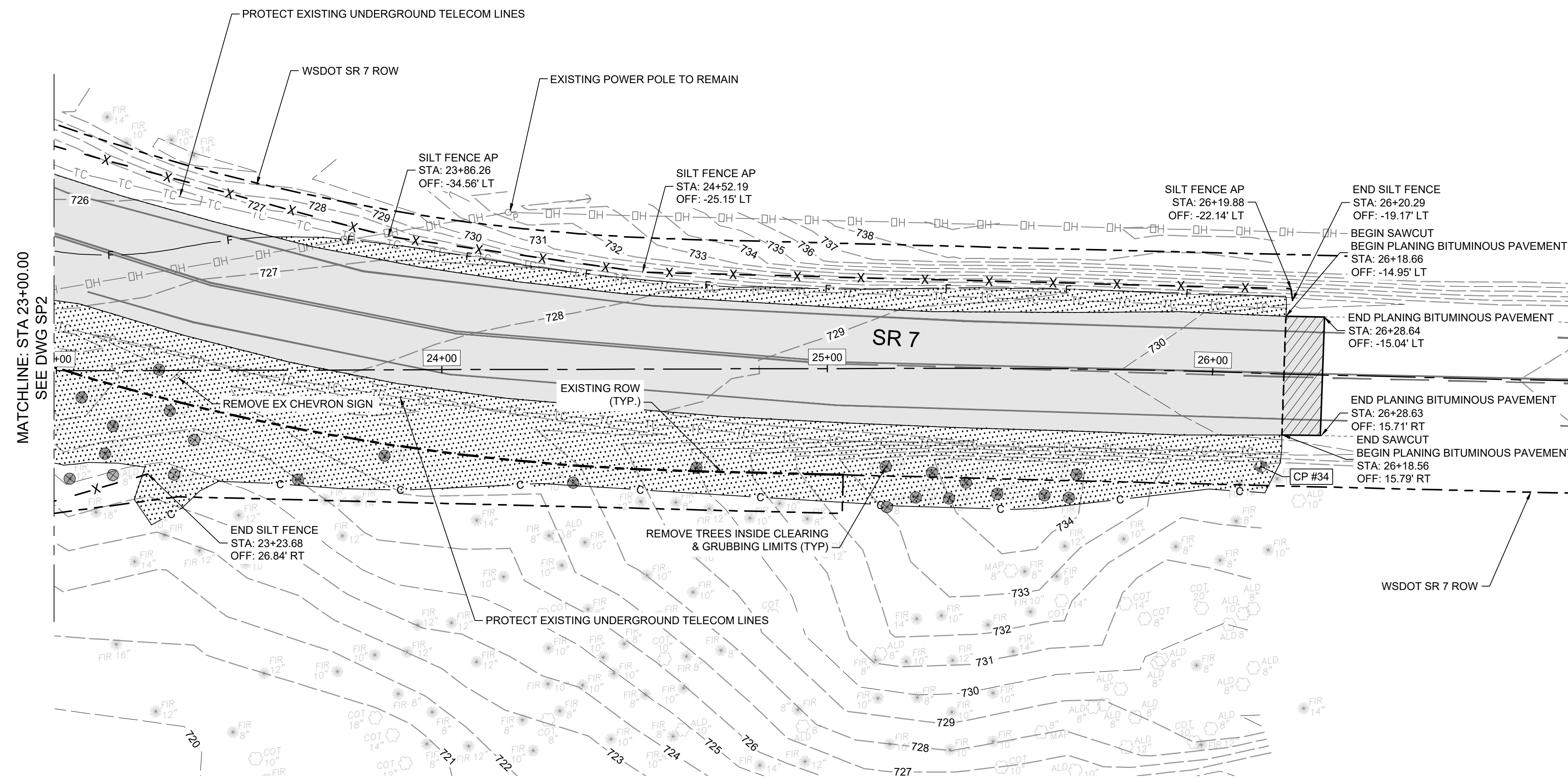
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DEMO LEGEND

-  DEMOLITION ITEM
-  PAVEMENT REMOVAL
-  PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
-  RIGHT-OF-WAY LINE
-  ALIGNMENT
-  CLEAR AND GRUB AREA
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CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

SITE PREPARATION & TESC PLAN (SR 7 23+00 TO 26+50)

SP3

SCALE
1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

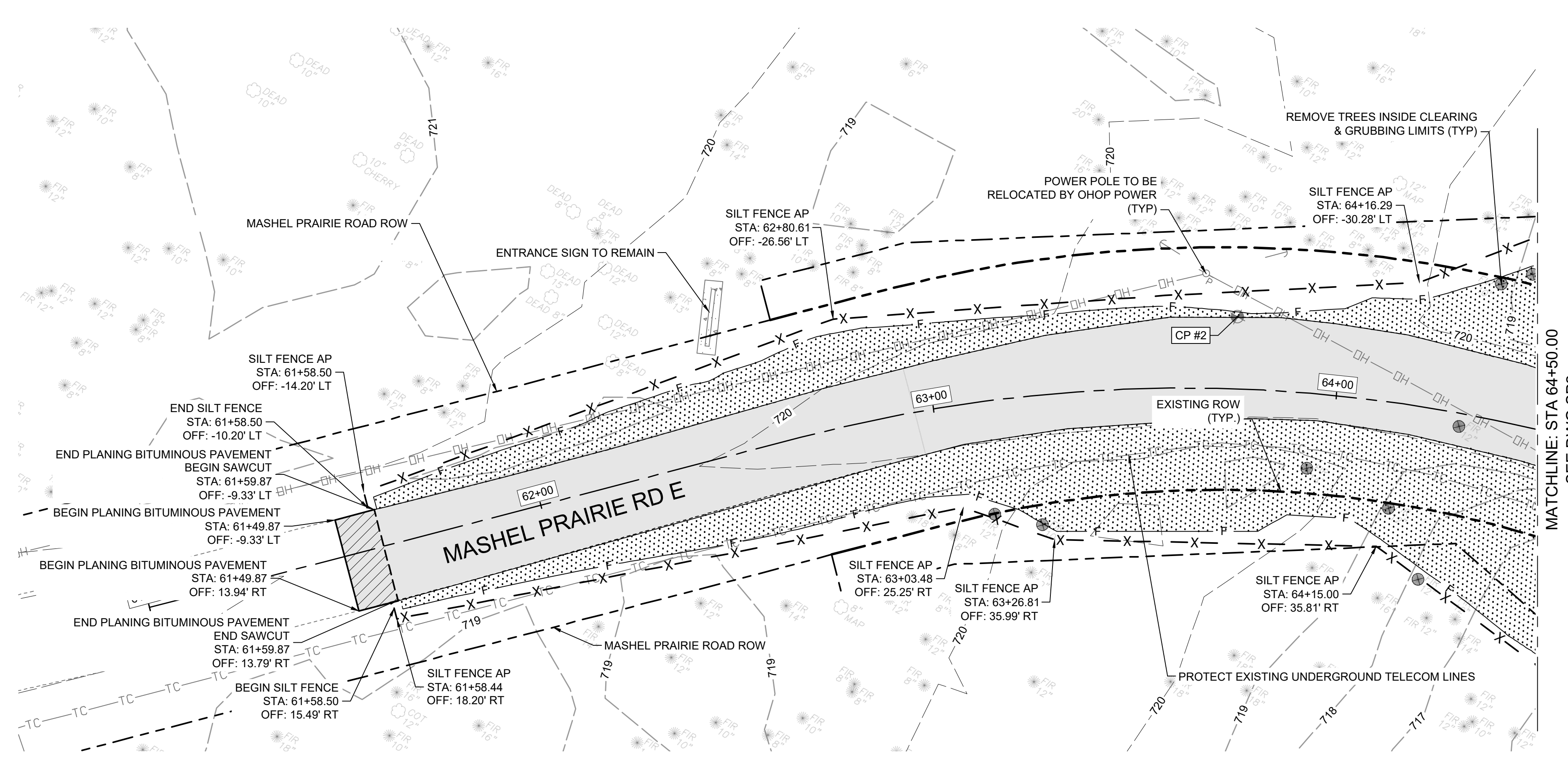
DEVELOPMENT ENGINEER _____	PERMIT # _____
PIERCE COUNTY ORDINANCE NUMBER _____	DATE _____
1. CONTACT _____, THE AREA INSPECTOR, AT 253-798-_____ TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.	
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.	
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.	
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.	

DEMO LEGEND

	DEMOLITION ITEM
	PAVEMENT REMOVAL
	PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
	RIGHT-OF-WAY LINE
	ALIGNMENT
	CLEAR AND GRUB AREA
	FILL LINE
	CUT LINE
	SILT FENCE (PER WSOT STD PLAN I-30.10)
	SAWCUT

NOTES:

- CONTRACTOR TO COORDINATE ALL EXISTING UTILITY RELOCATION WITHIN THE ROW WITH APPROPRIATE JURISDICTION, INCLUDING BUT NOT LIMITED TO POWER, TELECOM, ETC.
- FOR ALL SIGN REMOVAL CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL. ALL CEMENT CONCRETE FOUNDATIONS AND SIGN SUPPORTS SHALL BE REMOVED. ALL SINGLE POST FOUNDATIONS SHALL BE REMOVED IN THEIR ENTIRETY. REMOVE ALL MOUNTING HARDWARE.



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.
	REVISIONS

ACTION	BY	DATE
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DRAWN	NA	02/23/24
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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

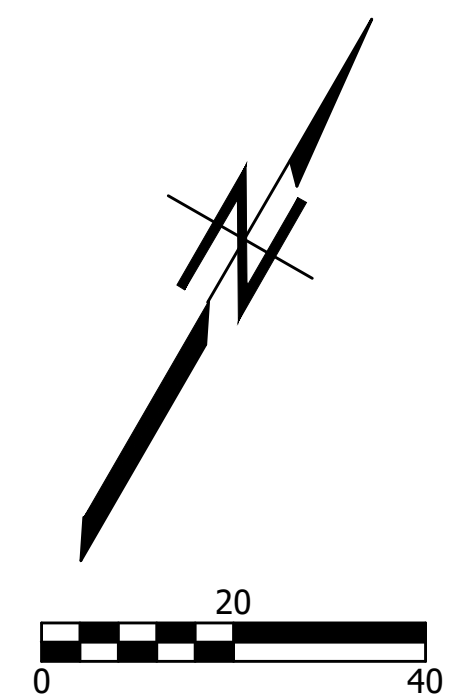
SITE PREPARATION & TESC PLAN (MPR 61+50 TO 64+50)

SP4

SCALE

1" = 20'

PARKS FILE#



PUBLIC IMPROVEMENTS

PERMIT # _____ DATE _____
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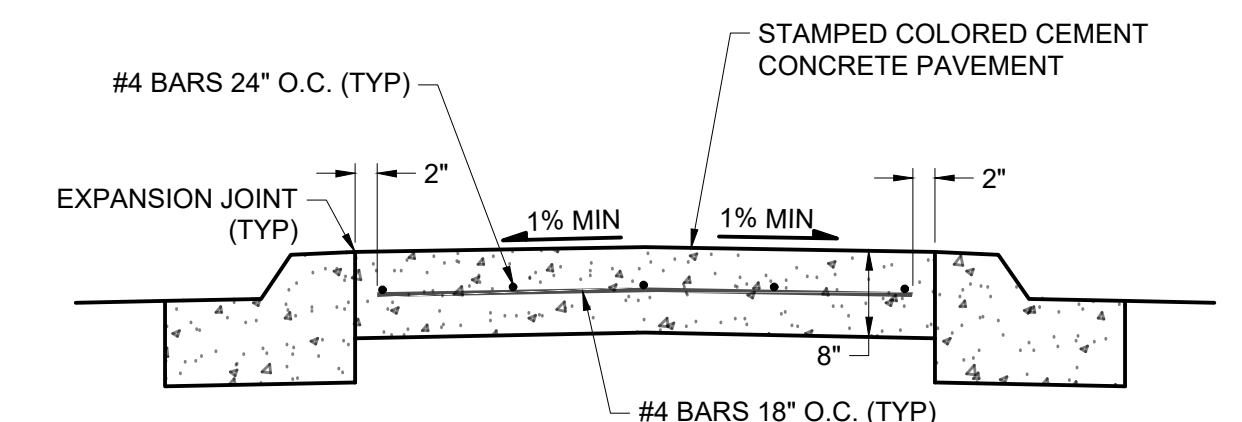
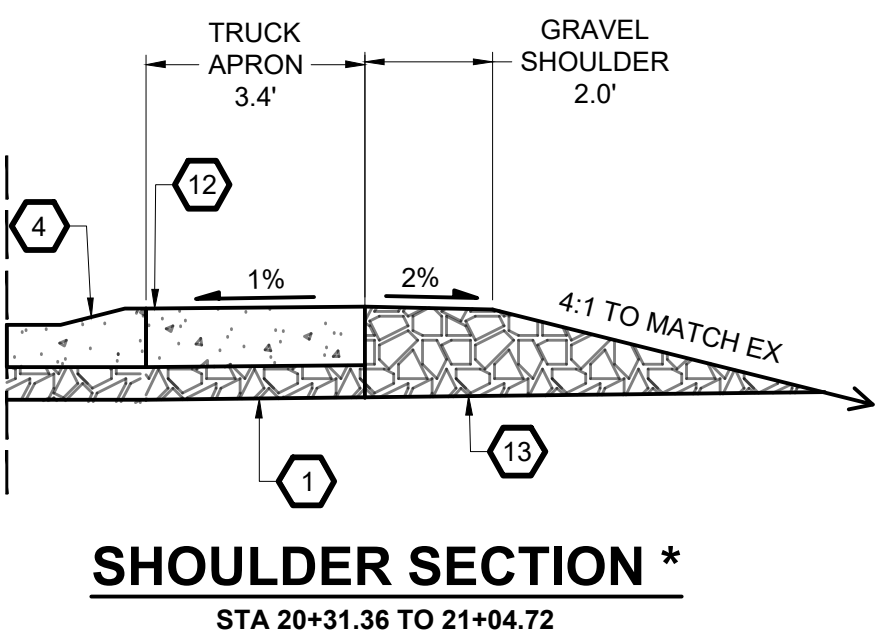
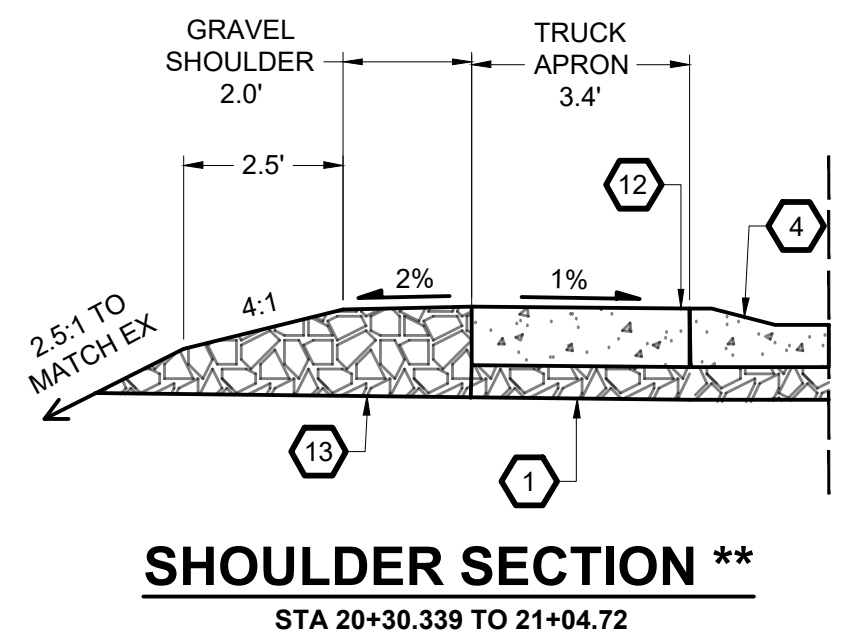
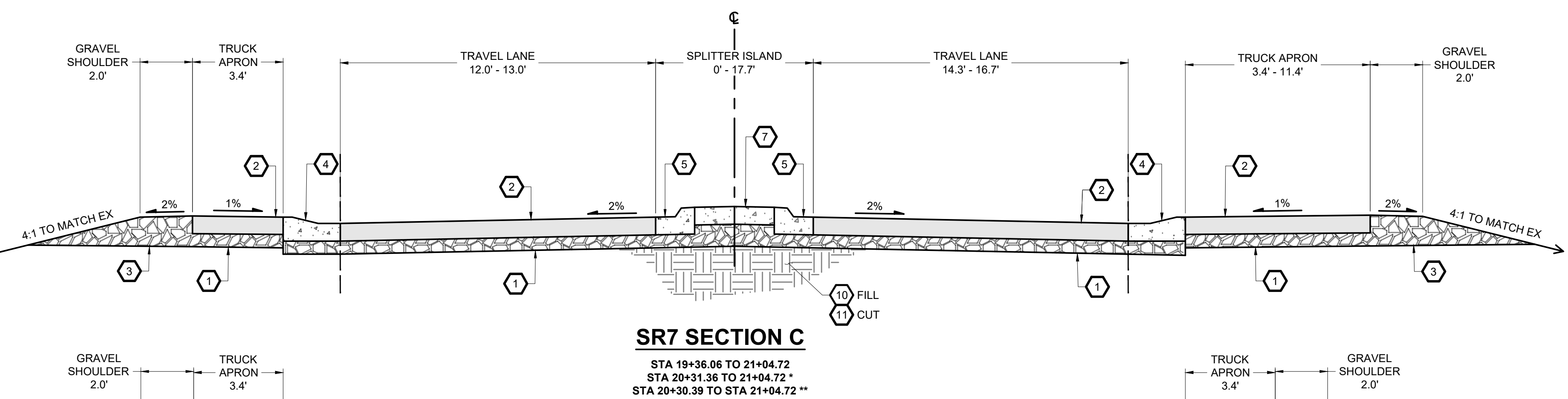
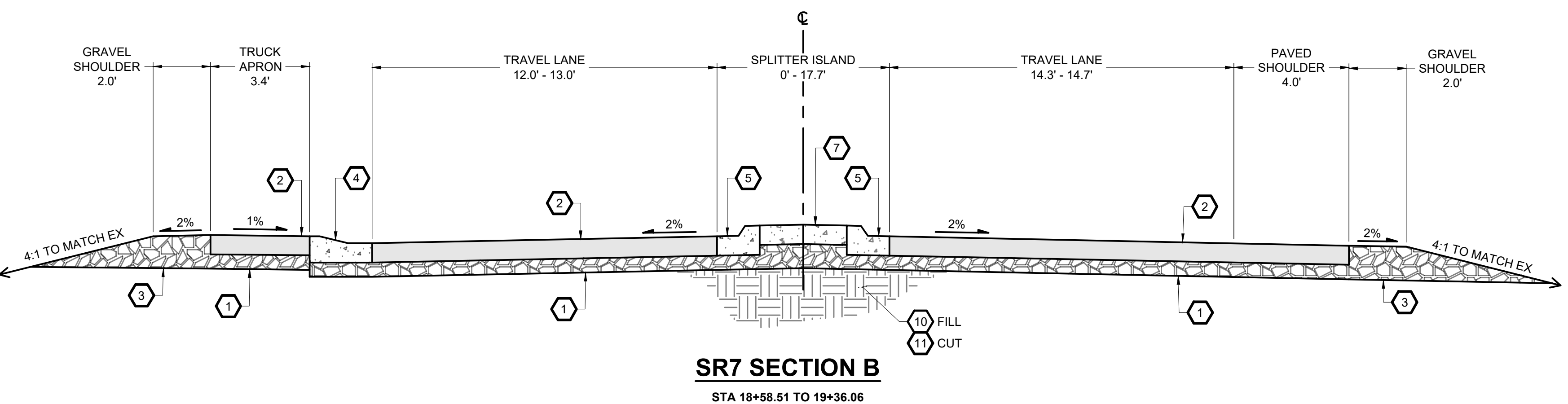
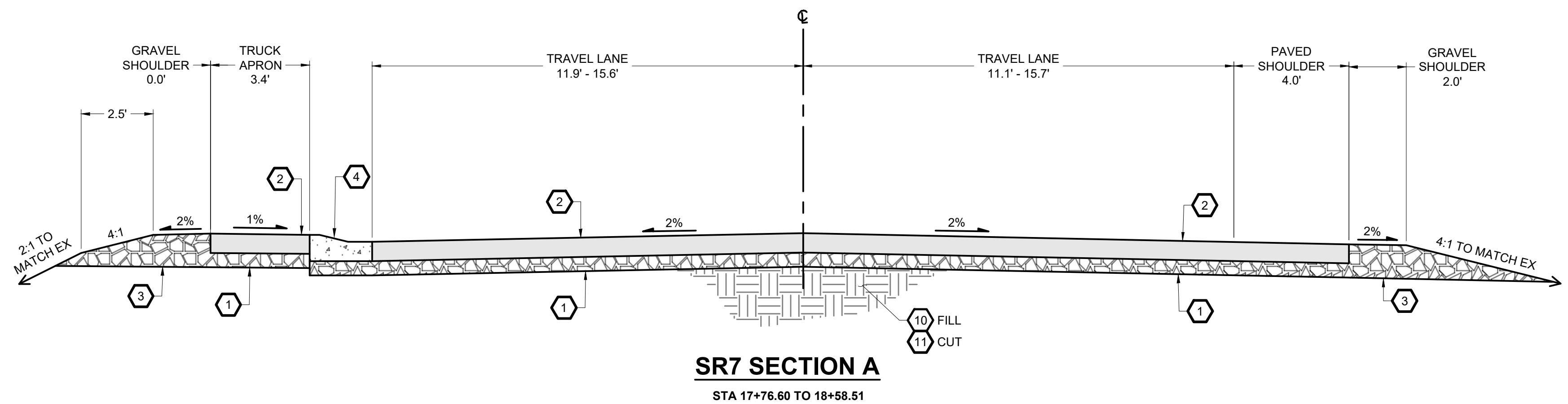
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

CONSTRUCTION NOTES:

- 1 6" CRUSHED SURFACING BASE COURSE (CSBC)
- 2 8" HMA CL. 1/2" PG 58H-22
- 3 14" CSBC
- 4 CURB 1 ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
- 5 CURB 2 ROUNDABOUT CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
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- 10 GRAVEL BORROW PER WSDOT STD SPEC 9-03.14(1)
- 11 COMPACTED SUBGRADE
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- 13 17" CSBC

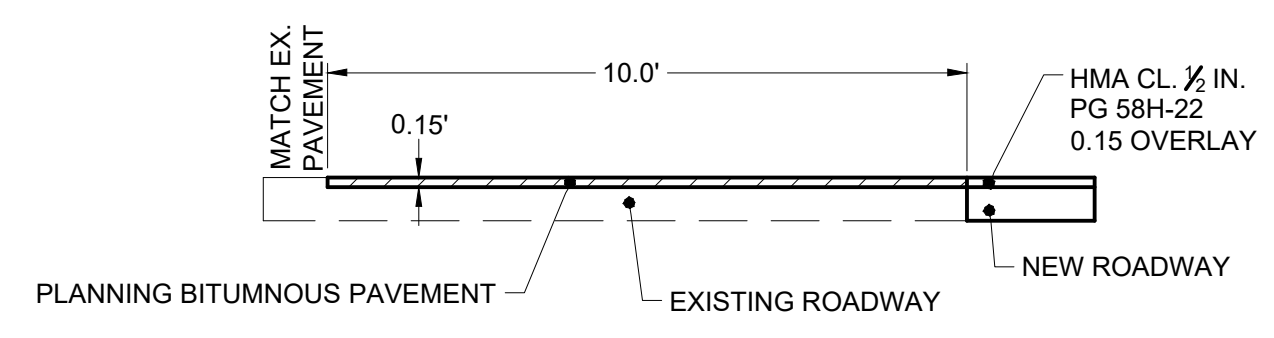
NOTES:

- 1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.



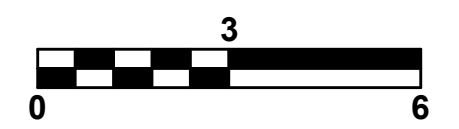
DETAIL 1

NTS



DETAIL 2 - PLANING BITUMINOUS PAVEMENT

NTS



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

ROADWAY SECTIONS

RS1

SCALE
1" = 3'

PARKS FILE#

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24

PUBLIC IMPROVEMENTS

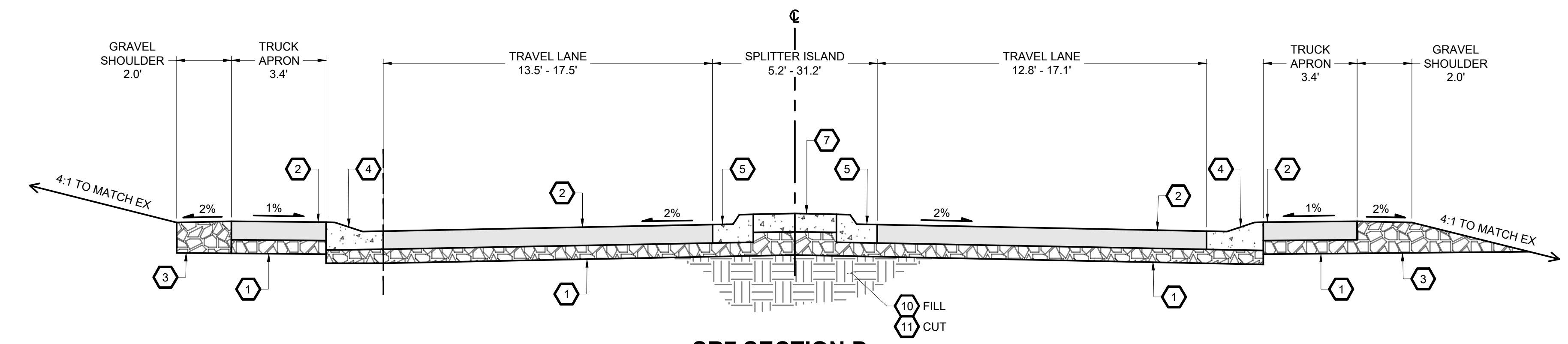
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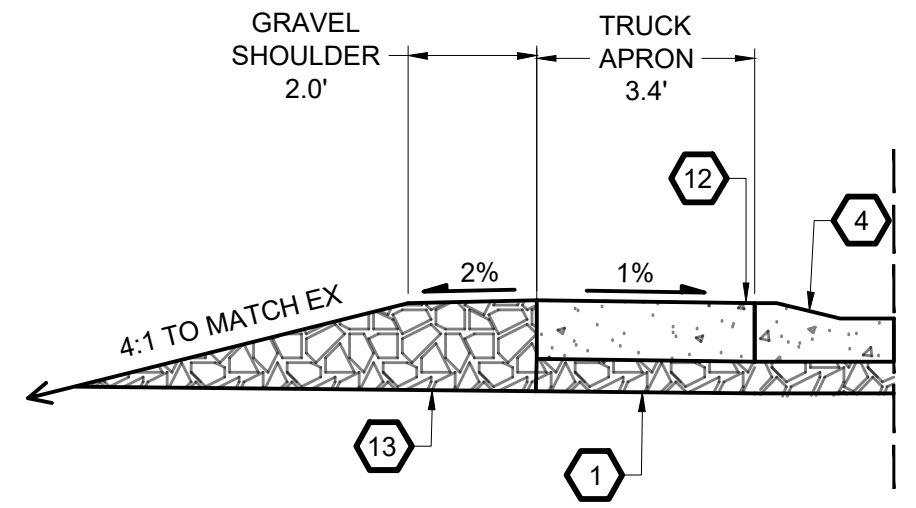
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

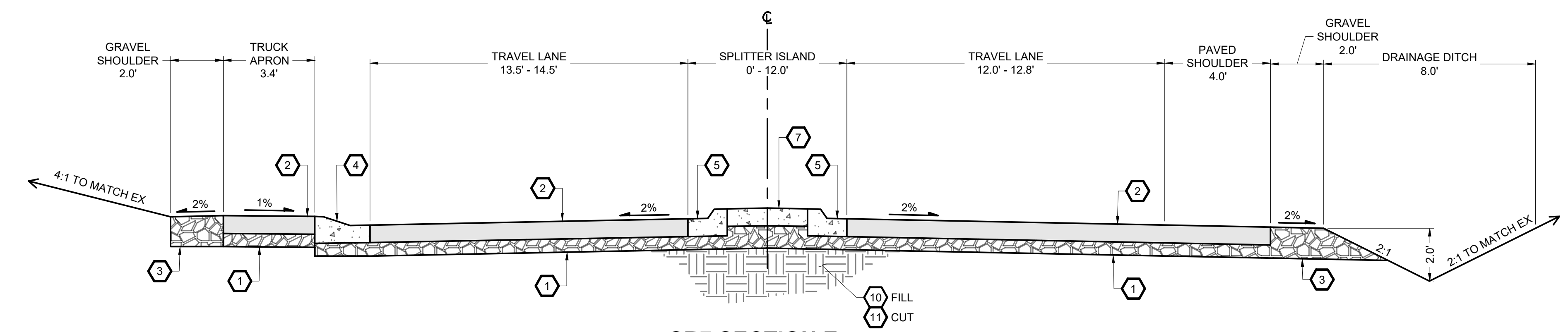
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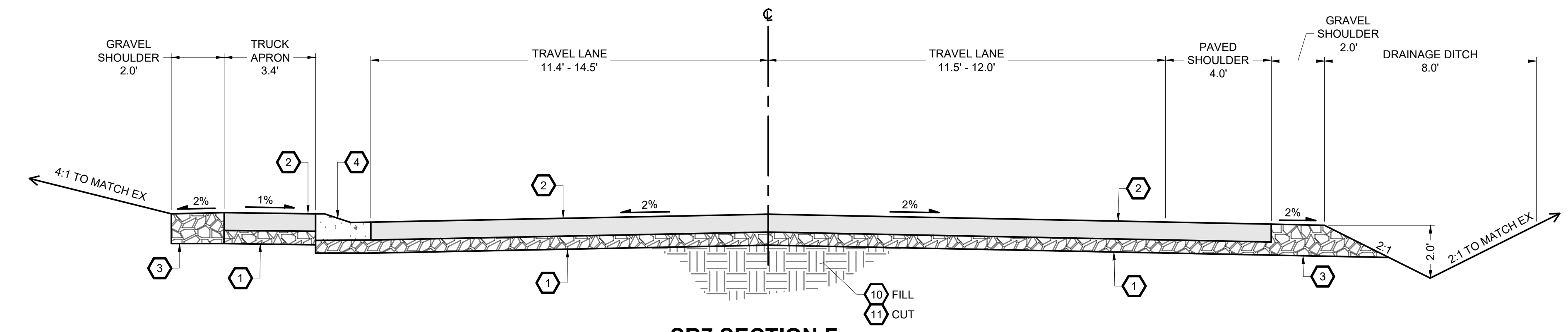
SR7 SECTION D
 STA 22+39.12 TO 23+22.95
 STA 22+39.12 TO 23+22.50 *



SHOULDER SECTION *
 STA 22+39.12 TO 23+22.50



SR7 SECTION E
 STA 23+22.95 TO 24+15.04



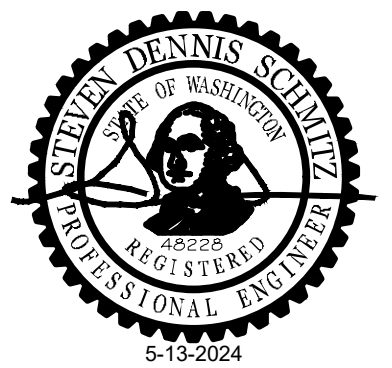
SR7 SECTION F
 STA 24+15.04 TO 26+18.49

CONSTRUCTION NOTES:

- 1 6" CRUSHED SURFACING BASE COURSE (CSBC)
- 2 8" HMA CL. 1/2" PG 58H-22
- 3 14" CSBC
- 4 CURB 1 ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
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- 9 CENTER ISLAND LANDSCAPING (SEE LANDSCAPE PLANS)
- 10 GRAVEL BORROW PER WSDOT STD SPEC 9-03.14(1)
- 11 COMPACTED SUBGRADE
- 12 11" CEMENT CONCRETE PAVEMENT (SEE DETAIL 1 ON SHEET RS3)
- 13 17" CSBC

NOTES:

- 1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

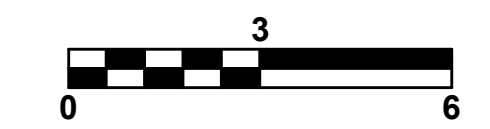


NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT ROADWAY SECTIONS

RS2

SCALE
1" = 3'

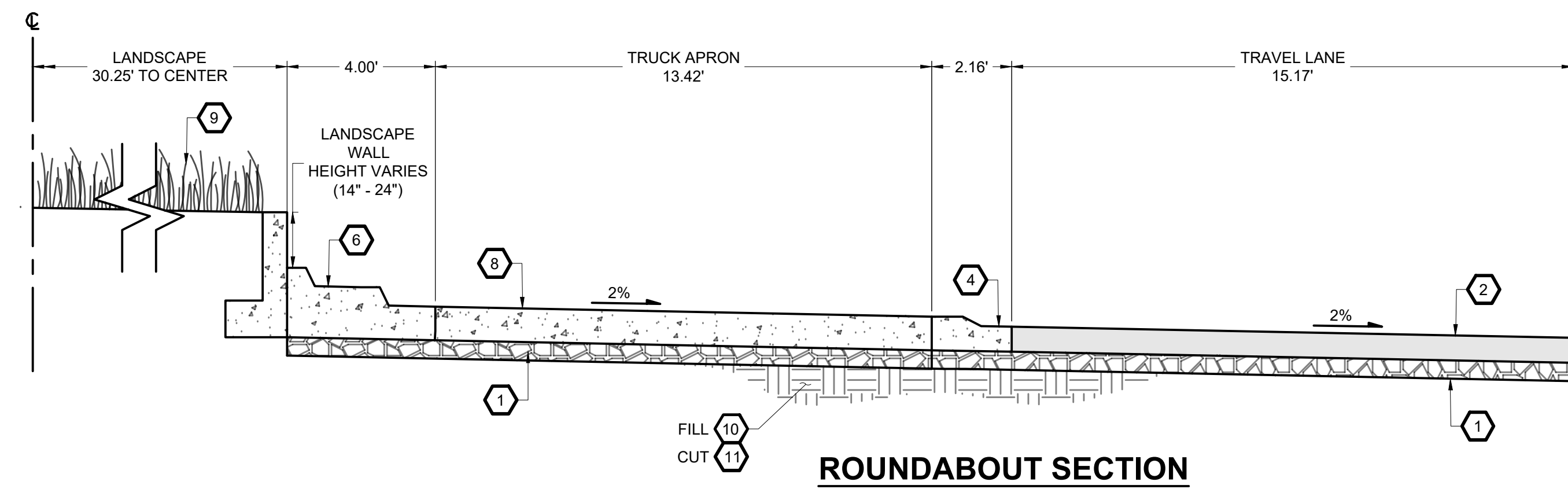


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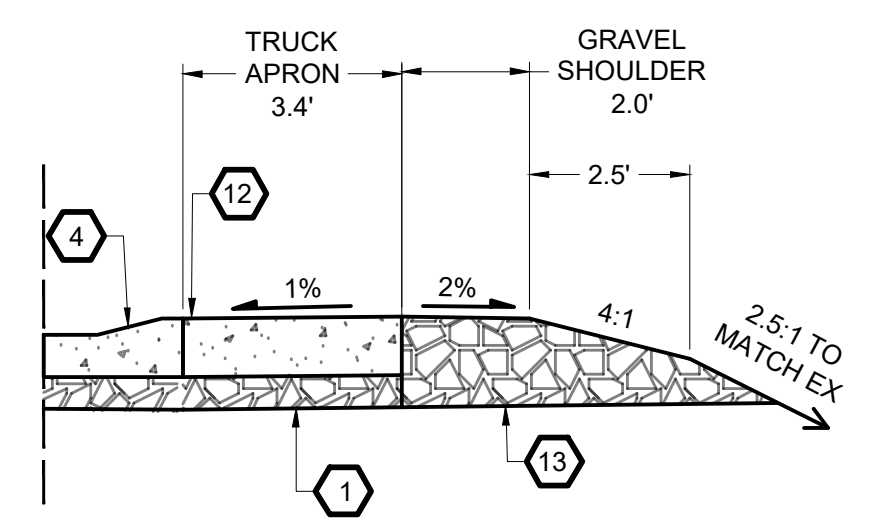
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DATE
APP.
INT.
REVISIONS
NO.

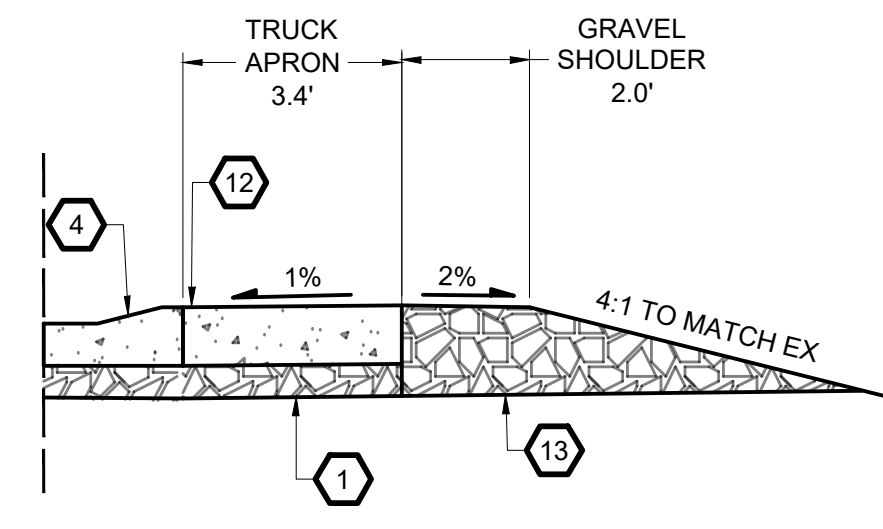
ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



ROUNDABOUT SECTION



SHOULDER SECTION A
STA 21+03.25, -41.42' LT TO 22+42.76, -47.16' LT



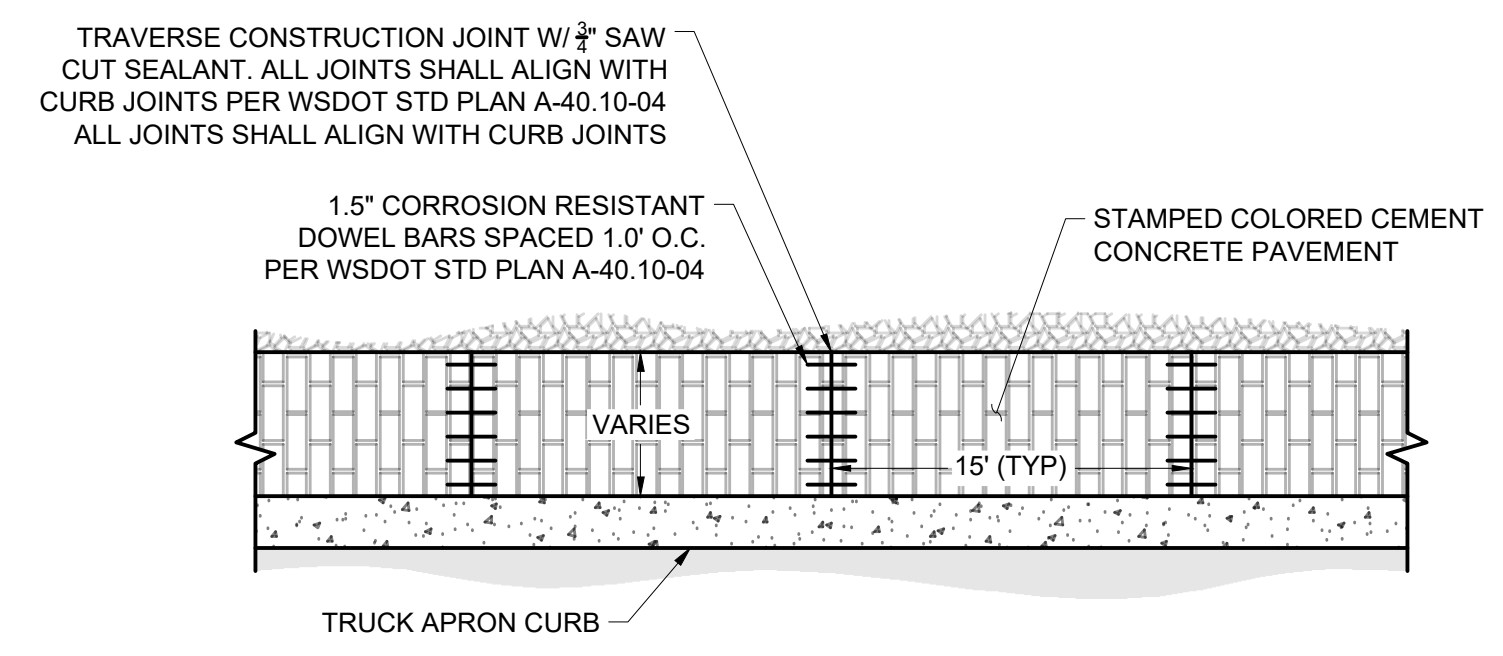
SHOULDER SECTION B
STA 21.73.68, 65.89' RT TO 22+38.07, 35.33' RT
STA 21+06.25, 49.40' RT TO 21+20.68, 66.63' RT

CONSTRUCTION NOTES:

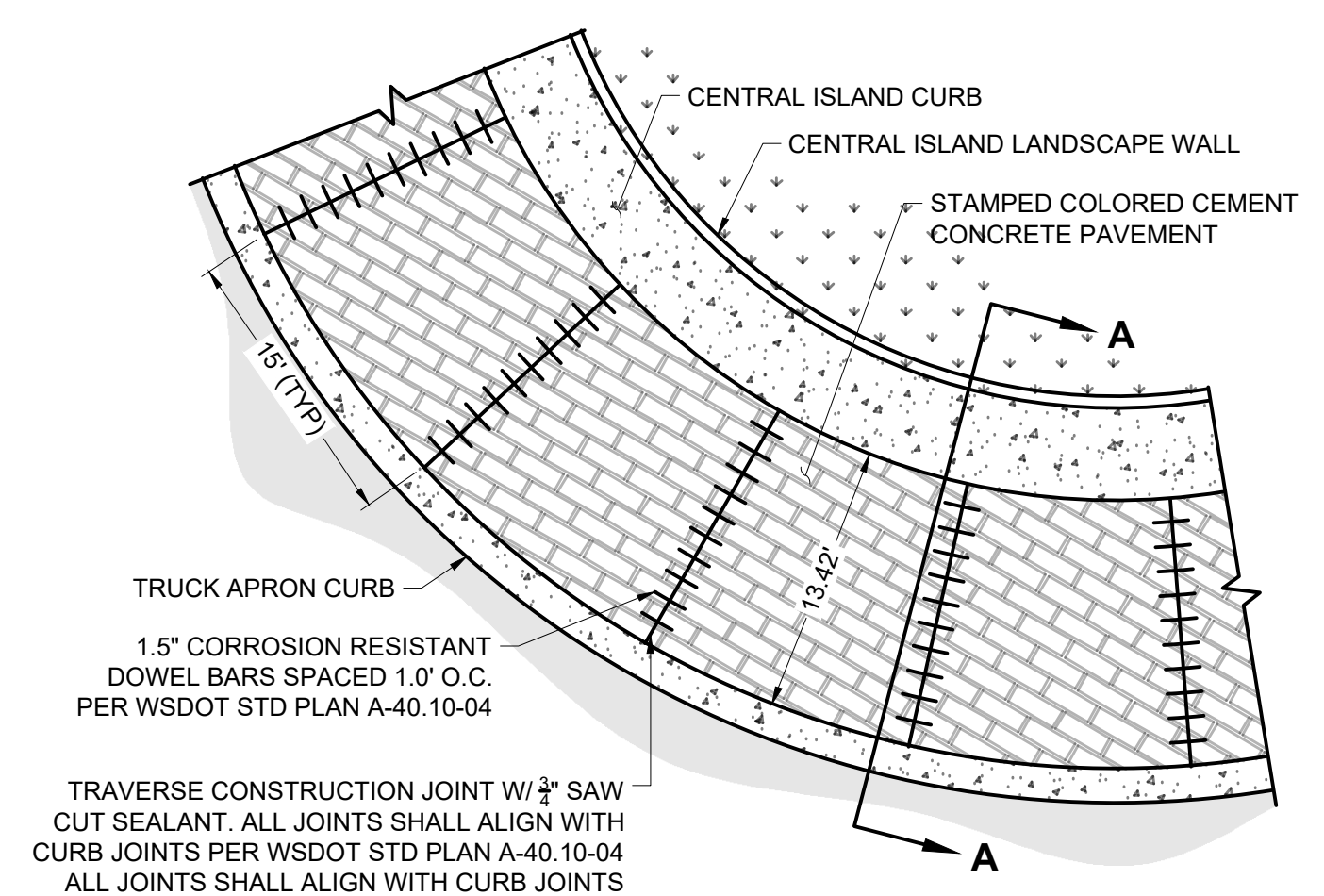
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- COMPACTED SUBGRADE
- 11" CEMENT CONCRETE PAVEMENT (SEE DETAIL 1 ON SHEET RS3)
- 17" CSBC

NOTES:

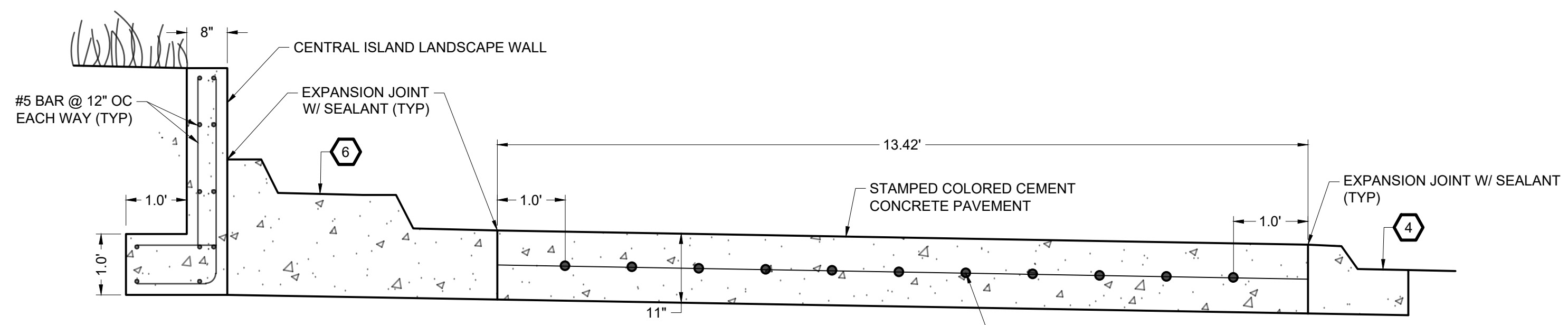
- ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.



DETAIL 1
NTS



DETAIL 2
NTS



SECTION A-A
NTS



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



**NISQUALLY STATE
PARK**

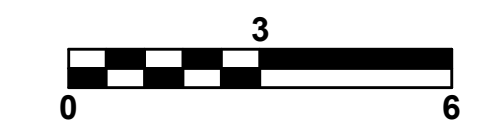
**PHASE 3C -
ROUNDABOUT**

**ROADWAY
SECTIONS**

RS3

SCALE

1" = 3'



PARKS FILE#

PUBLIC IMPROVEMENTS

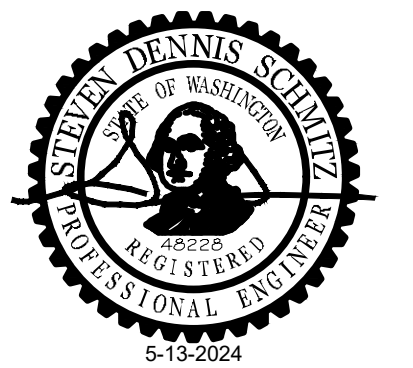
PERMIT # _____
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REGISTERED STAMP

WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



NISQUALLY STATE
 PARK

PHASE 3C -
 ROUNDABOUT

ROADWAY
 SECTIONS

RS4

SCALE
 1" = 3'

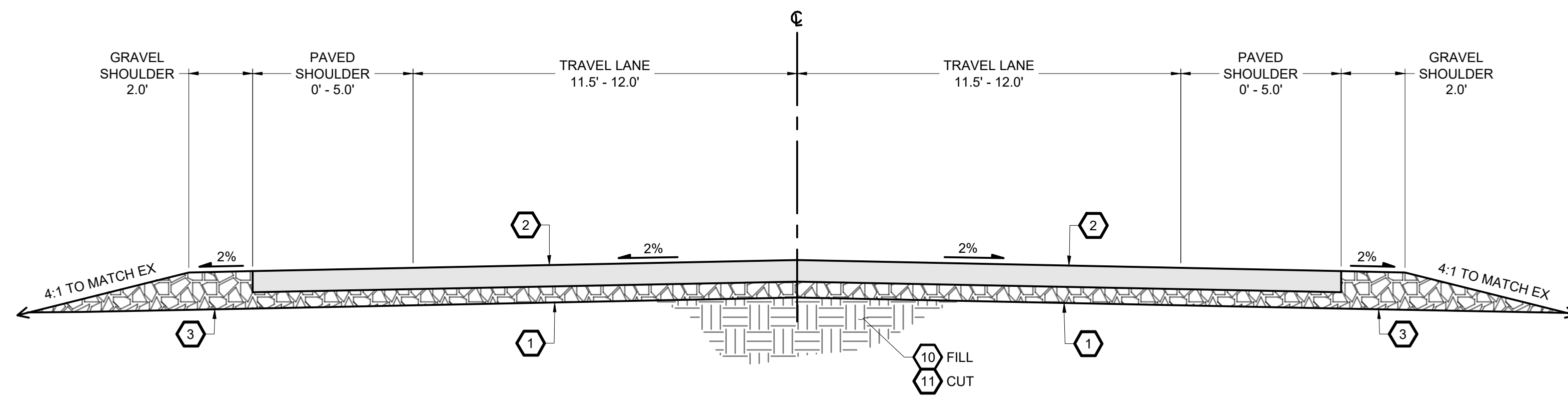
PARKS FILE#

CONSTRUCTION NOTES:

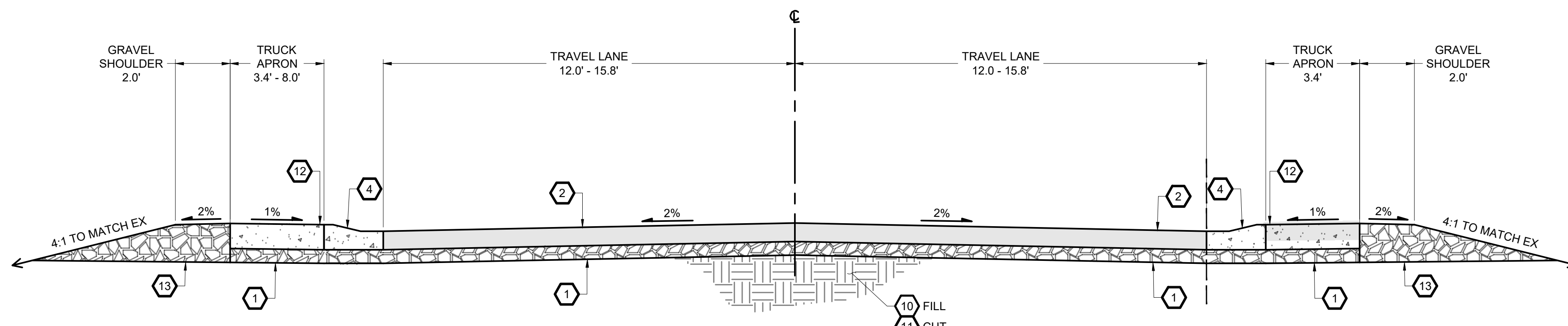
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NOTES:

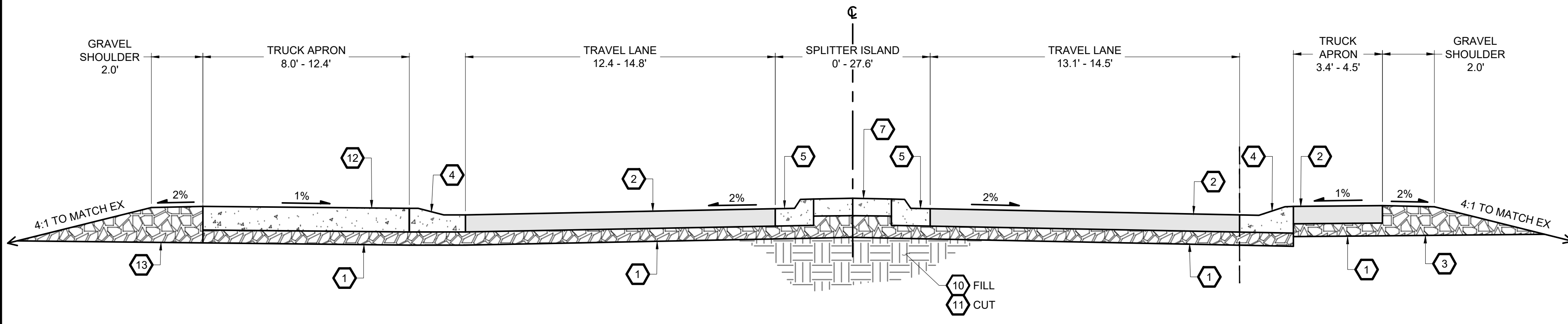
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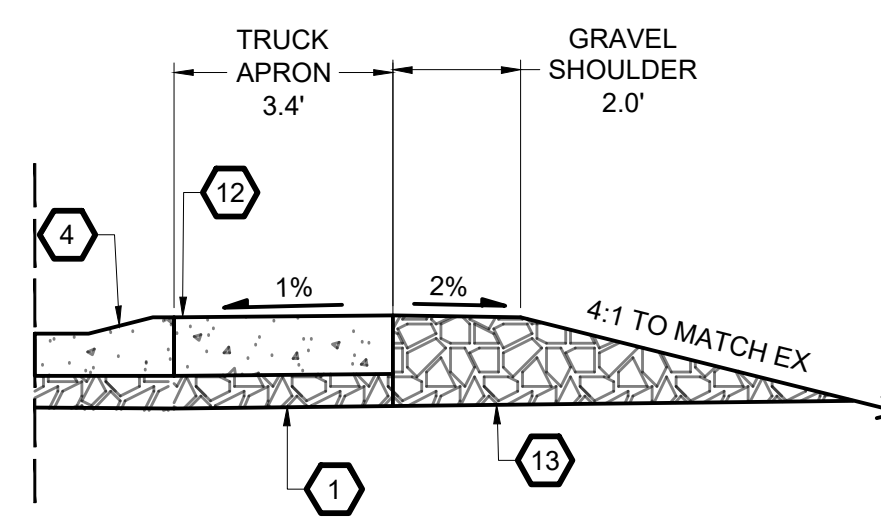
MASHEL PRAIRIE SECTION A
 STA 61+59.87 TO 64+05.26



MASHEL PRAIRIE SECTION B
 STA 64+05.26 TO 64+52.88
 STA 64+05.26 TO STA 64+52.88 *



MASHEL PRAIRIE SECTION C
 STA 64+52.88 TO 64+98.00
 STA 64+52.88 TO STA 64+64.60 *



SHOULDER SECTION *
 STA 64+05.26 TO STA 64+64.60



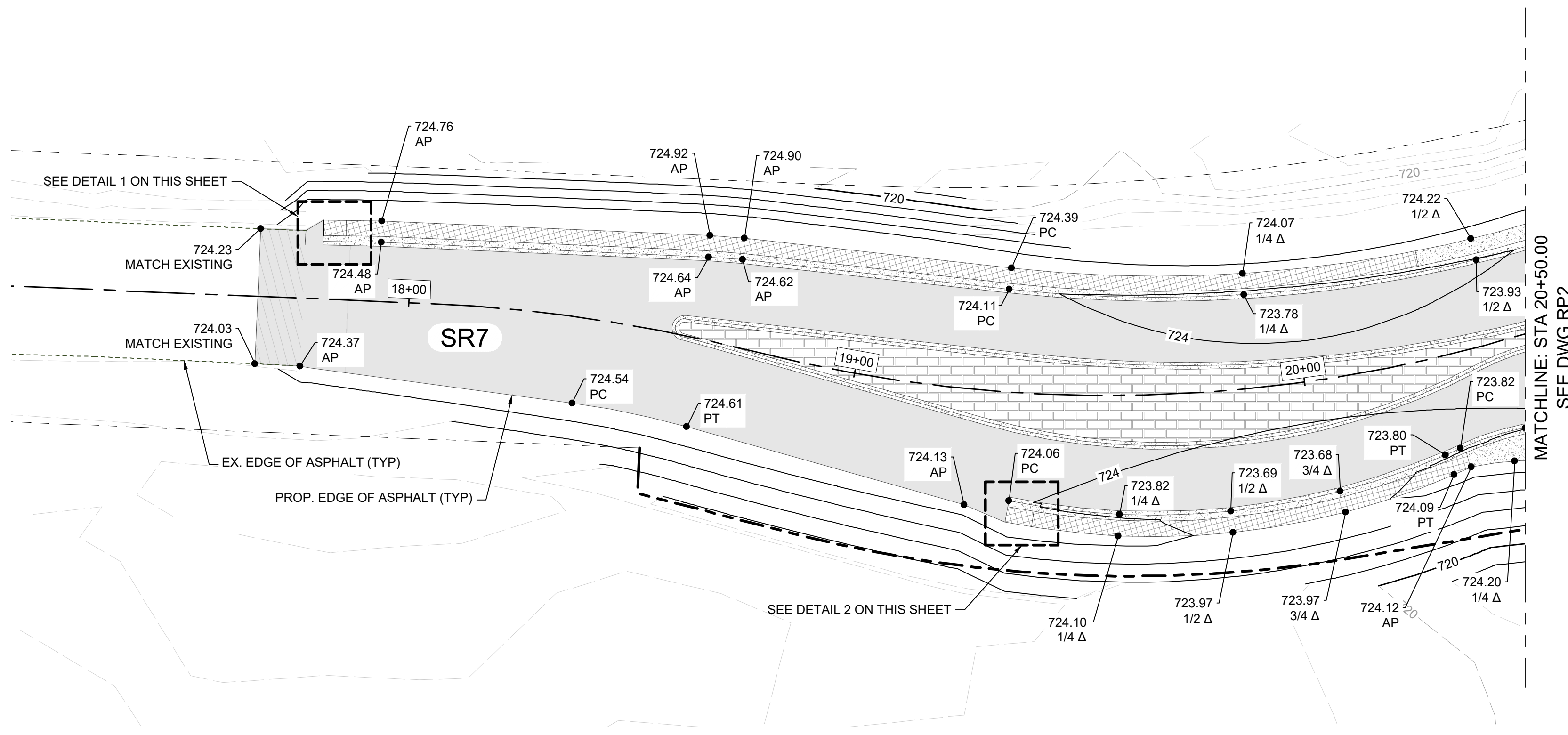
PUBLIC IMPROVEMENTS

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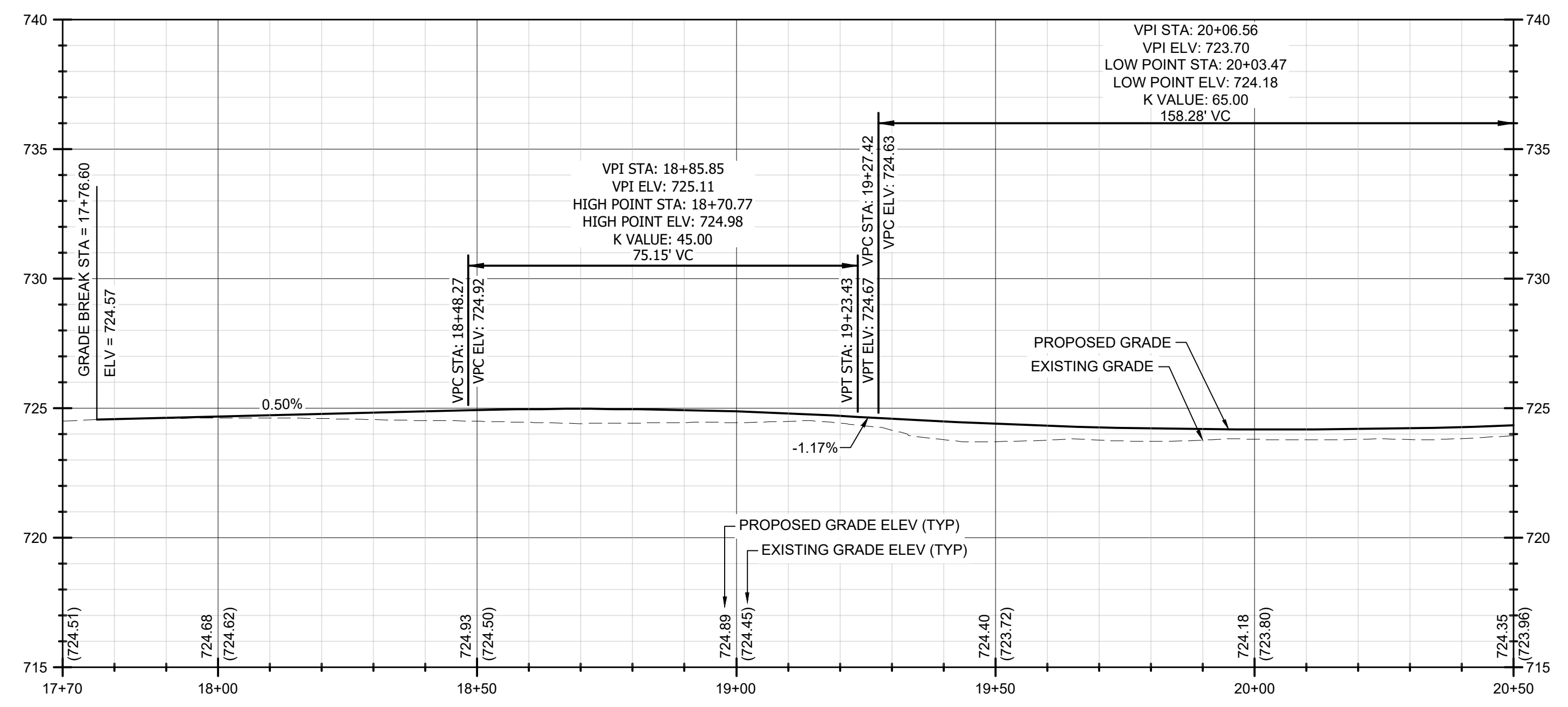
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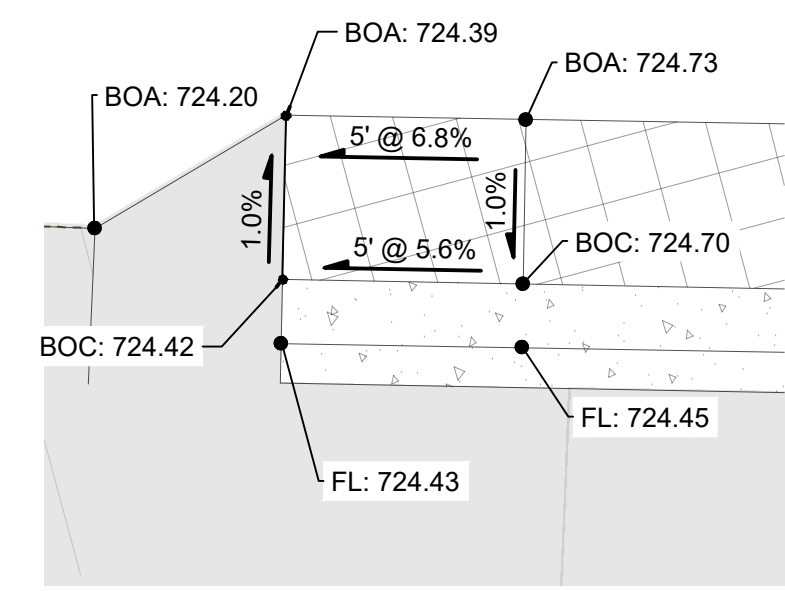
PLAN VIEW
SCALE: 1" = 20'



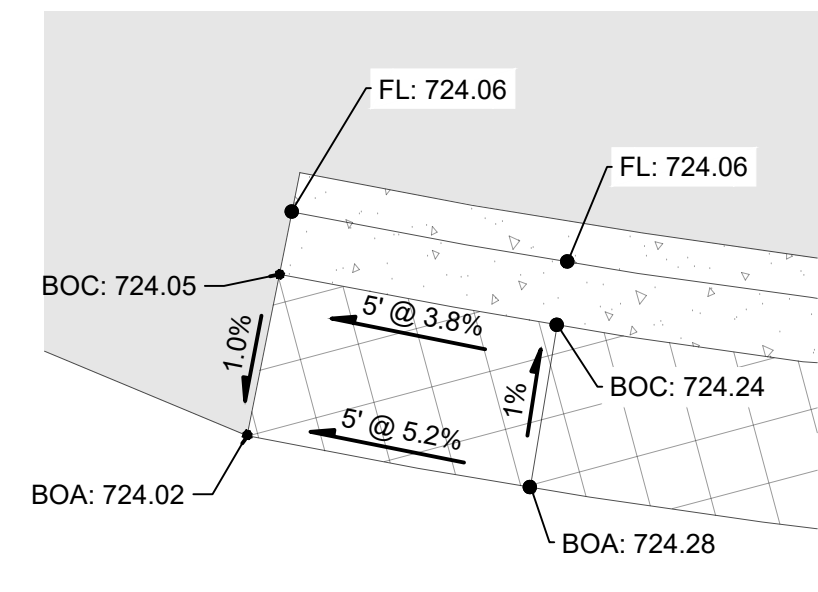
PROFILE VIEW
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

LEGEND

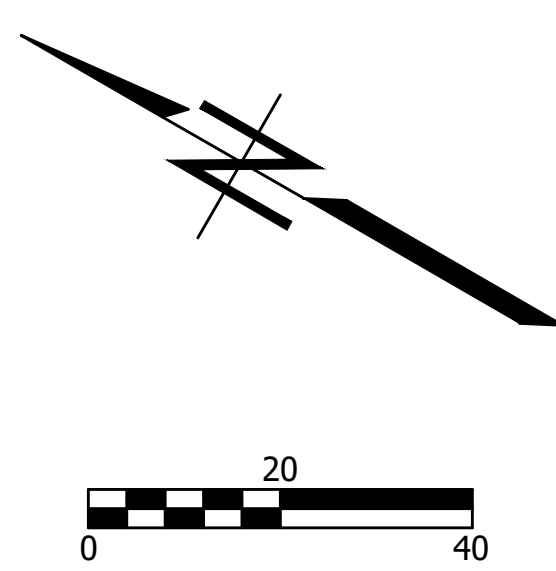
- ROW LINE
- ALIGNMENT CENTERLINE
- - - - - XXX - - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- XXX --- MAJOR CONTOUR
- MINOR CONTOUR
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Cross-hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Diagonal Lines] ASPHALT TRUCK APRON
- [Horizontal Lines] CONCRETE TRUCK APRON
- [Stippled Box] STAMPED CEMENT CONCRETE
- [Dotted Box] CENTER ISLAND LANDSCAPING



DETAIL 1
SCALE: 1" = 4'



DETAIL 2
SCALE: 1" = 4'



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



**NISQUALLY STATE
PARK**

**PHASE 3C -
ROUNDBOUT**

**ROADWAY PLAN &
PROFILE
(SR 7 17+25 TO 20+50)**

RP1

SCALE
1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

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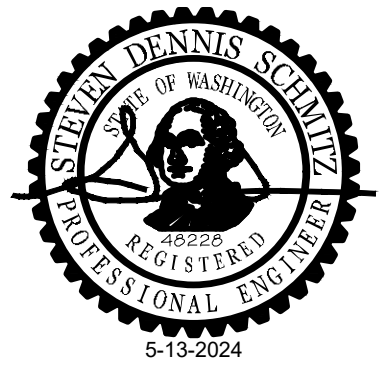
LEGEND

- ROW LINE
- ALIGNMENT CENTERLINE
- - - - - XXX - - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- XXX --- MAJOR CONTOUR
- MINOR CONTOUR
- [Pattern] HMA CLASS 1/2" PG 58H-22
- [Pattern] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Pattern] ASPHALT TRUCK APRON
- [Pattern] CONCRETE TRUCK APRON
- [Pattern] STAMPED CEMENT CONCRETE
- [Pattern] CENTER ISLAND LANDSCAPING

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



**NISQUALLY STATE
 PARK**

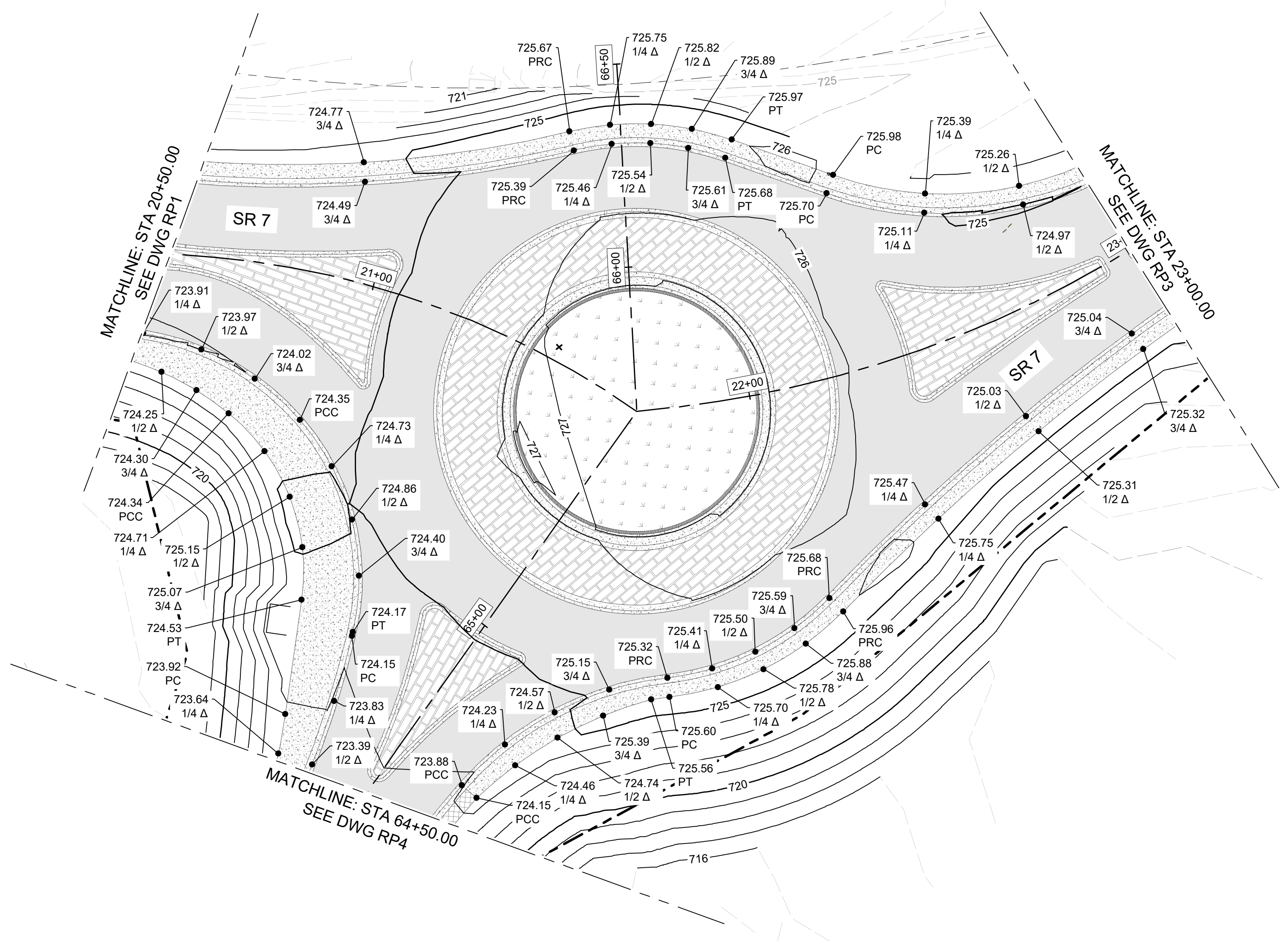
**PHASE 3C -
 ROUNDABOUT**

**ROADWAY PLAN &
 PROFILE
 (SR 7 20+50 TO 23+00)**

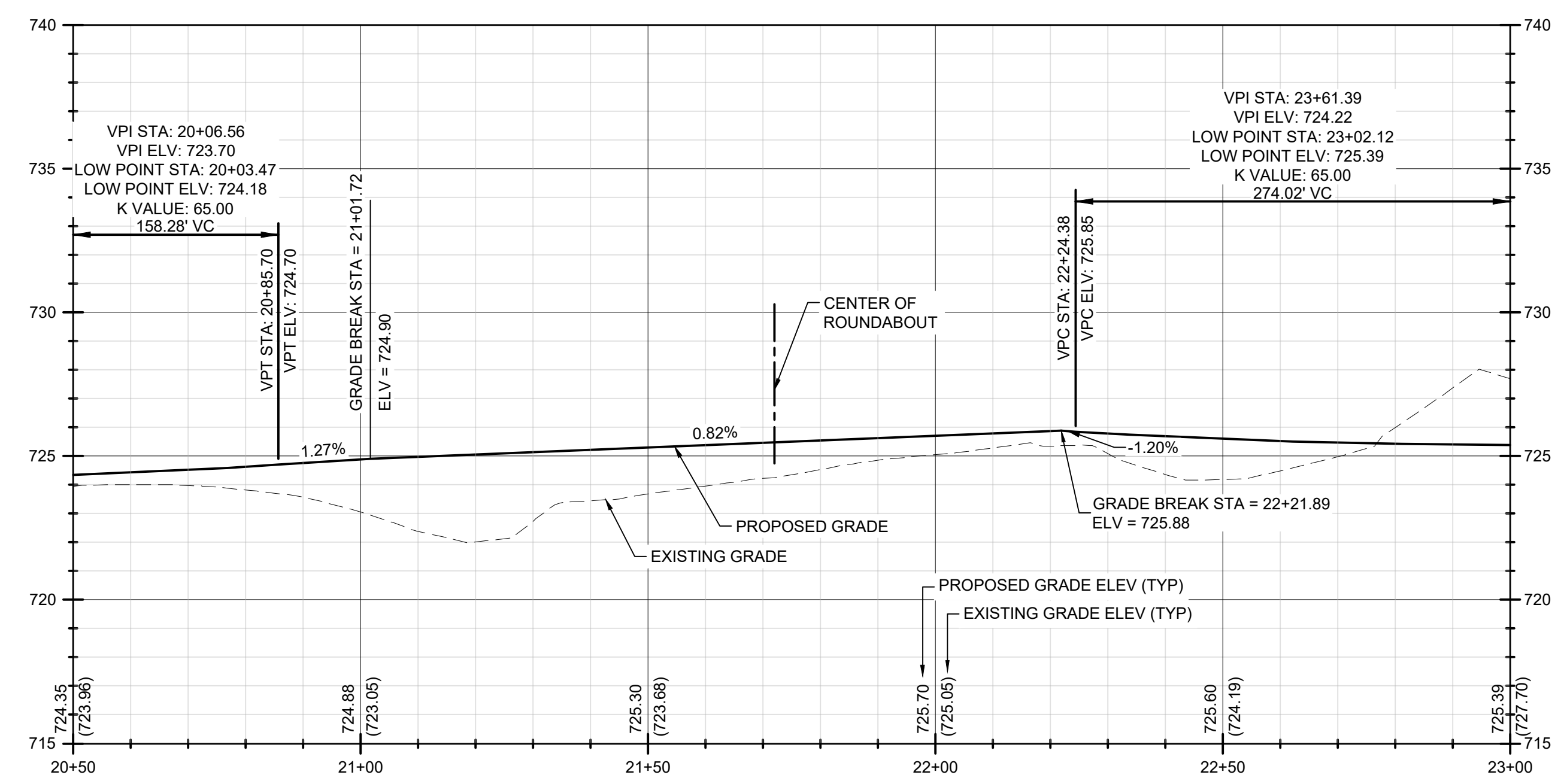
RP2

SCALE
 1" = 20'

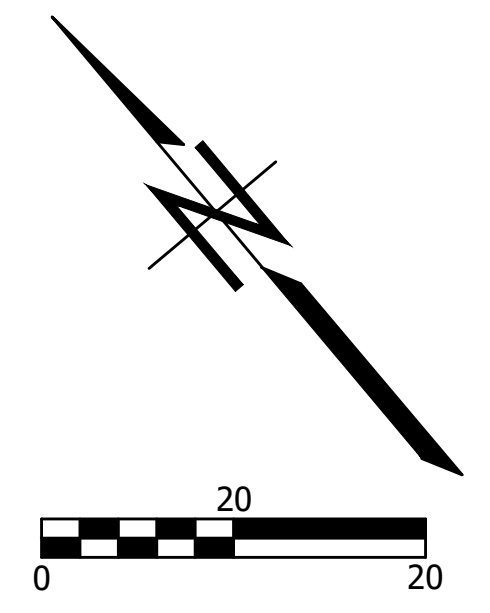
PARKS FILE#



PLAN VIEW
 SCALE: 1" = 20'



PROFILE VIEW
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 4'



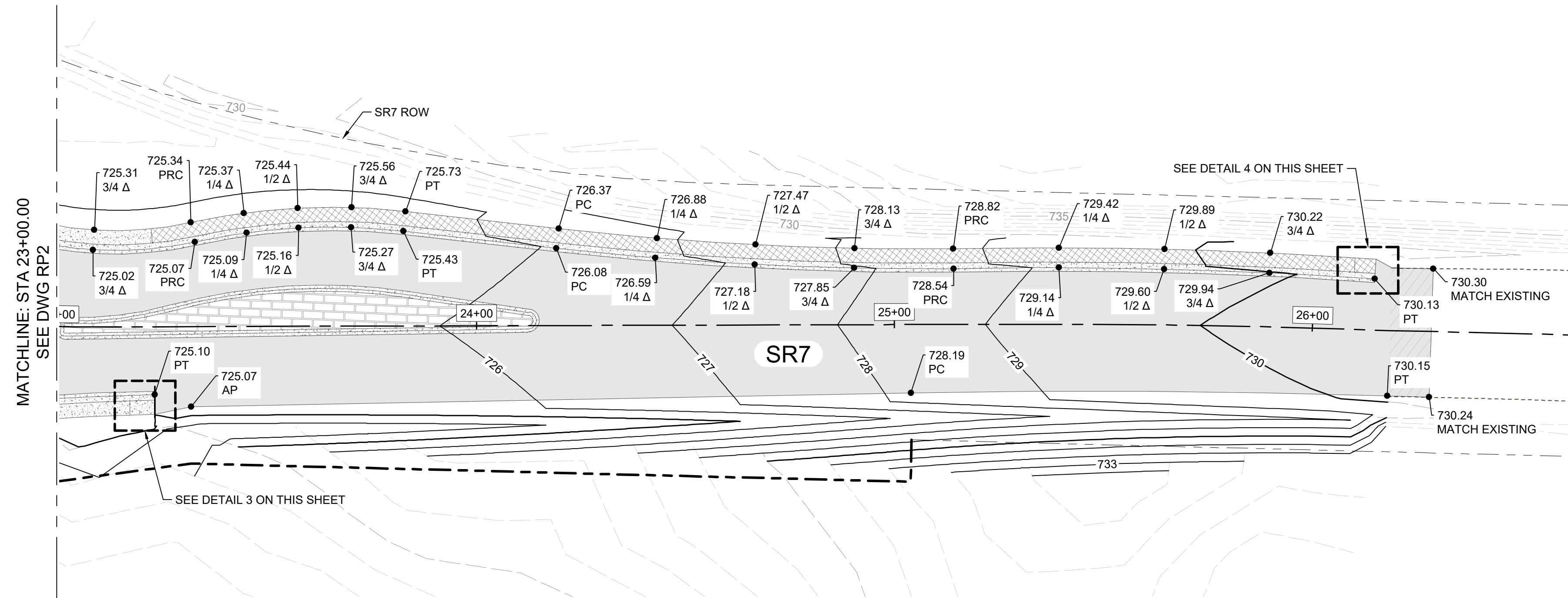
PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER	PERMIT #
PIERCE COUNTY ORDINANCE NUMBER	DATE
1. CONTACT _____ THE AREA INSPECTOR, AT 253-7986, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. 2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE. 3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL. 4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.	

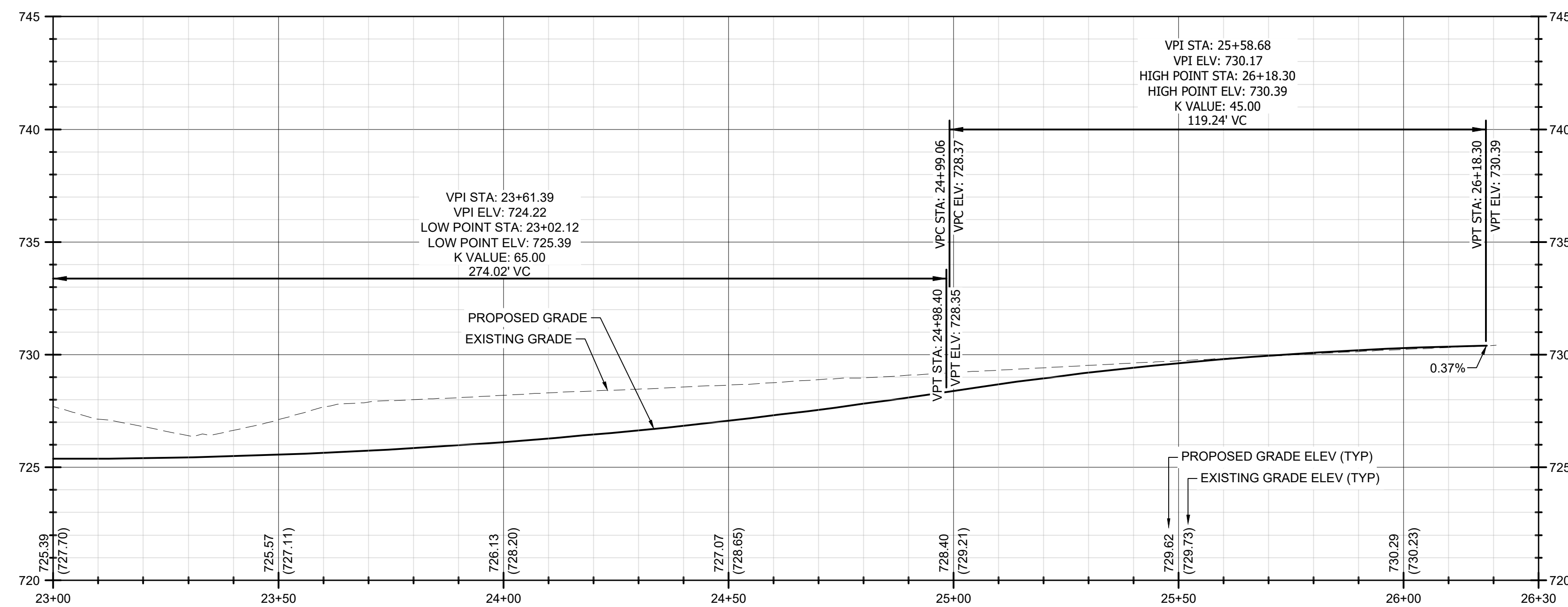
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



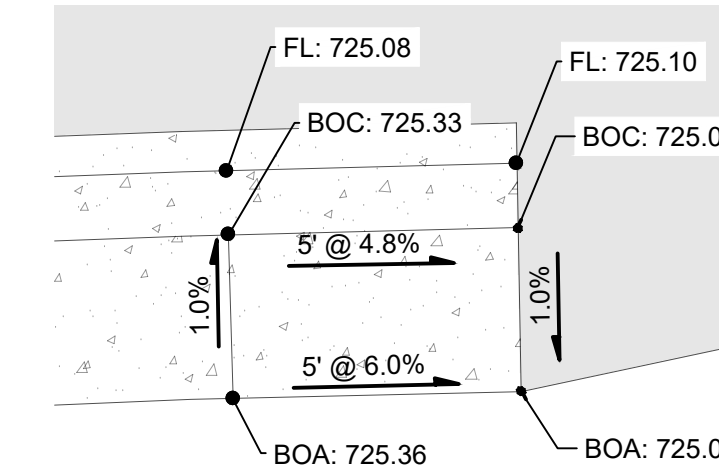
PLAN VIEW
SCALE: 1" = 20'



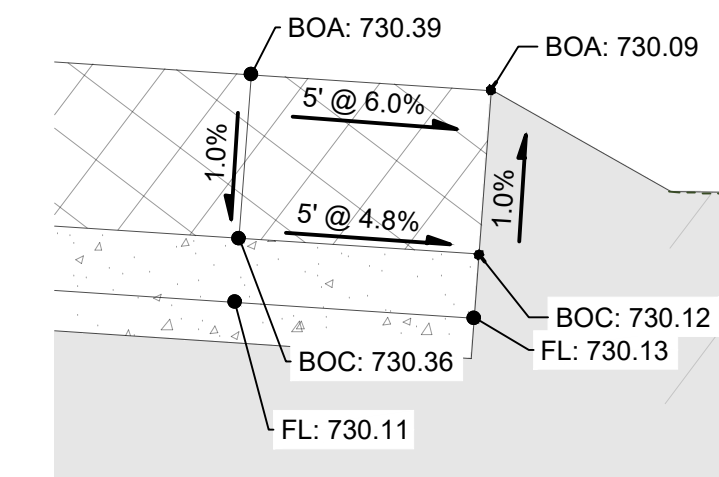
PROFILE VIEW
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

LEGEND

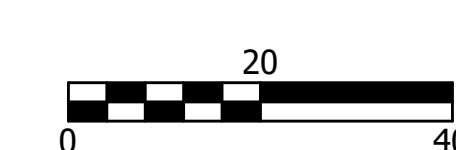
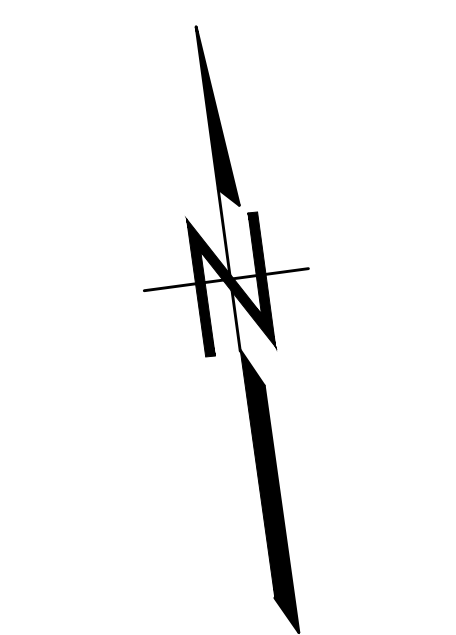
- ROW LINE
- ALIGNMENT CENTERLINE
- XXX --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- XXX --- MAJOR CONTOUR
- MINOR CONTOUR
- HMA CLASS 1/2" PG 58H-22
- PLANNING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- ASPHALT TRUCK APRON
- CONCRETE TRUCK APRON
- STAMPED CEMENT CONCRETE
- CENTER ISLAND LANDSCAPING



DETAIL 3
SCALE: 1" = 4'



DETAIL 4
SCALE: 1" = 4'



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

ROADWAY PLAN & PROFILE (SR 7 23+00 TO 26+50)

RP3

SCALE

1" = 20'

PARKS FILE#

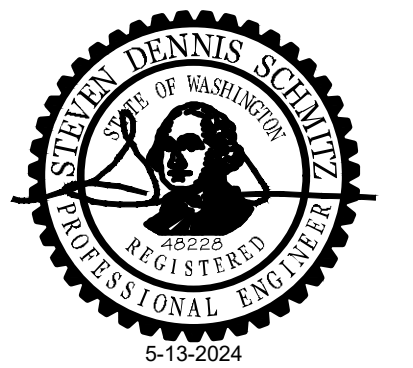
PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____	PERMIT # _____
PIERCE COUNTY ORDINANCE NUMBER _____	DATE _____
1. CONTACT _____, THE AREA INSPECTOR, AT 253-798-_____ TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.	
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3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.	
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.	

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

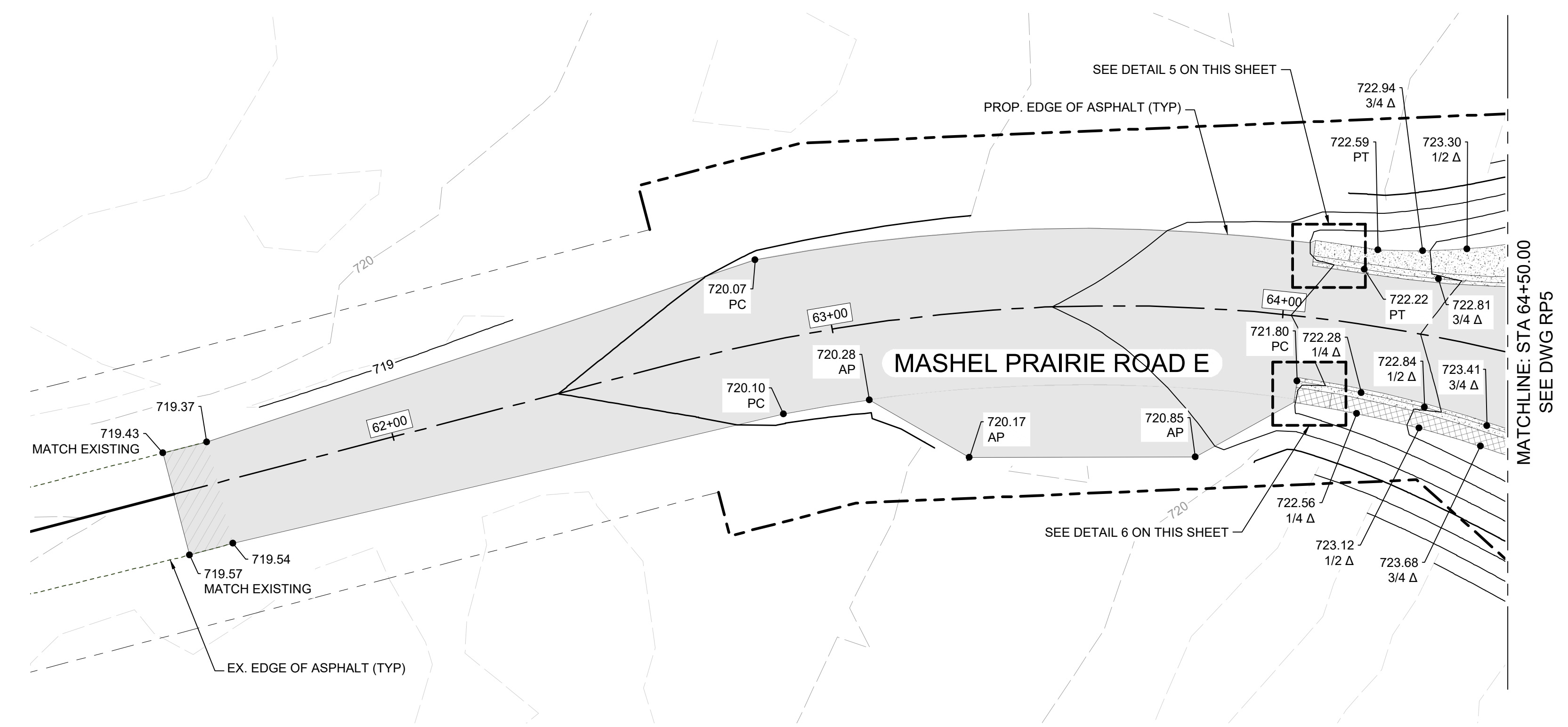
PHASE 3C - ROUNDABOUT

ROADWAY PLAN & PROFILE (MPR 61+50 TO 64+50)

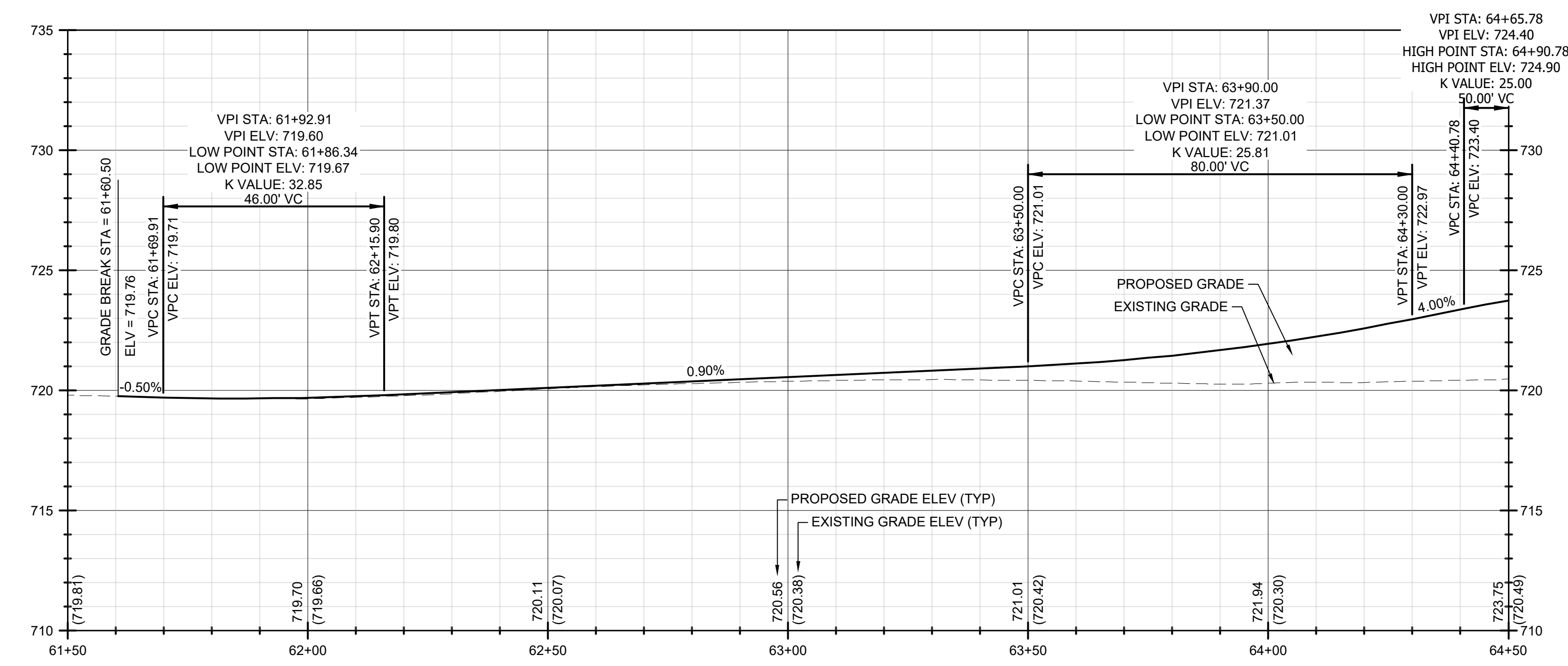
RP4

SCALE 1" = 20'

PARKS FILE#



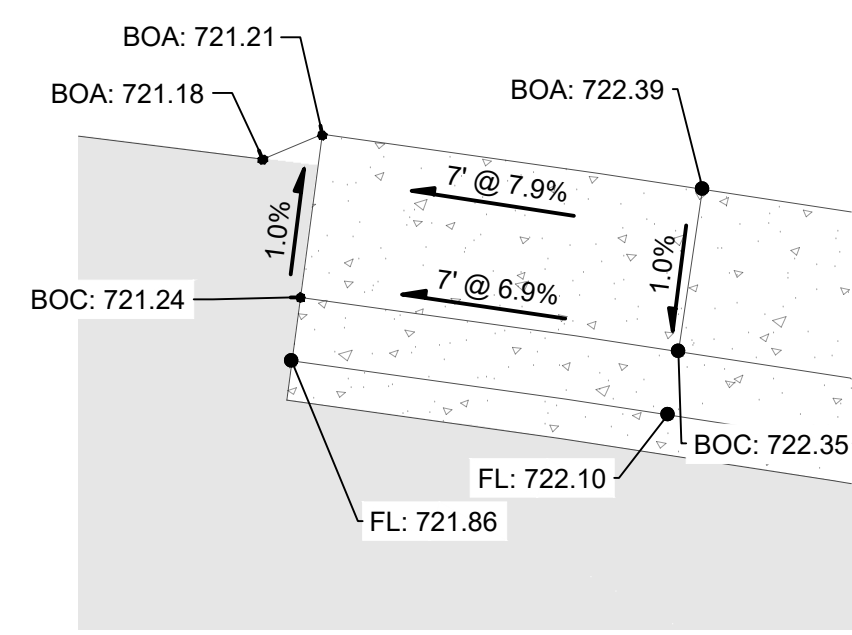
PLAN VIEW
SCALE: 1" = 20'



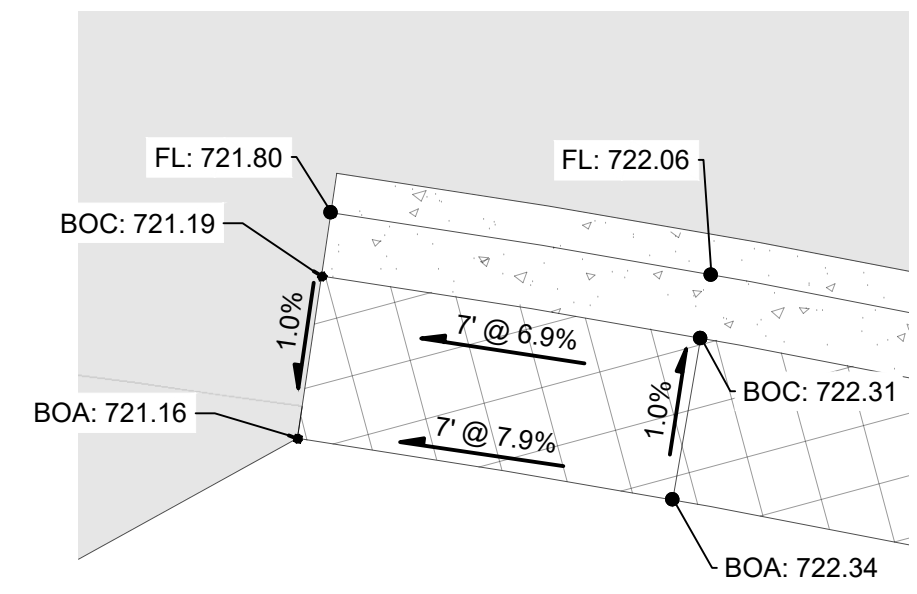
PROFILE VIEW
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

LEGEND

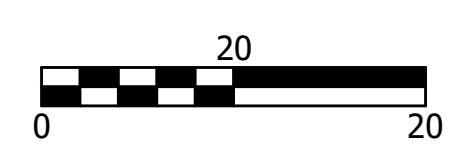
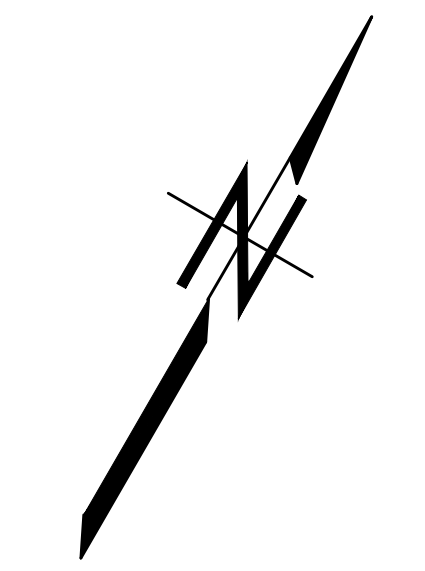
- ROW LINE
- ALIGNMENT CENTERLINE
- XXX --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- XXX --- MAJOR CONTOUR
- MINOR CONTOUR
- HMA CLASS 1/2" PG 58H-22
- PLANNING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- ASPHALT TRUCK APRON
- CONCRETE TRUCK APRON
- STAMPED CEMENT CONCRETE
- CENTER ISLAND LANDSCAPING



DETAIL 5
SCALE: 1" = 4'



DETAIL 6
SCALE: 1" = 4'



PUBLIC IMPROVEMENTS

PERMIT # _____
 DATE _____
 DEVELOPMENT ENGINEER _____
 PIERCE COUNTY ORDINANCE NUMBER _____

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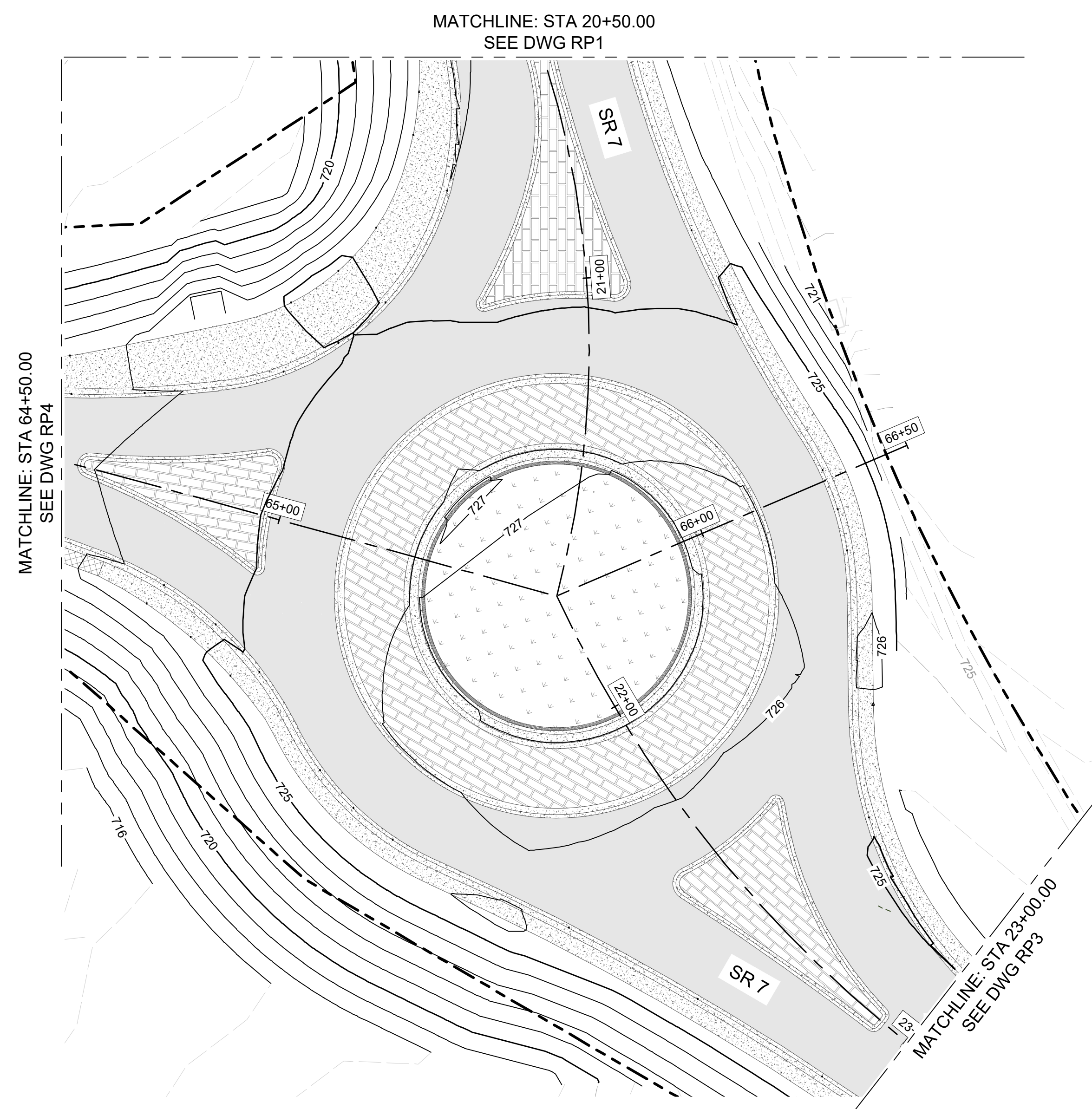
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3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

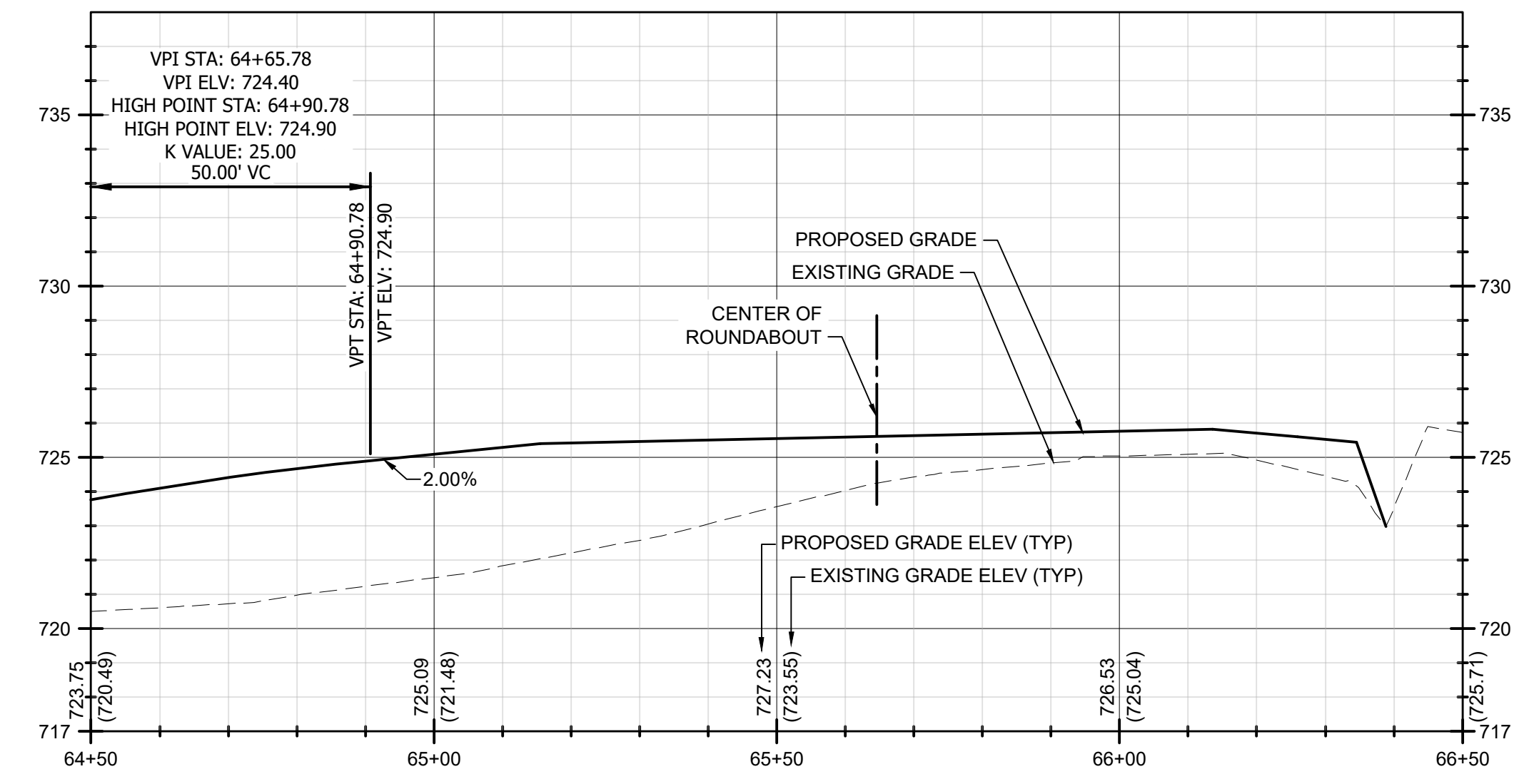
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

LEGEND

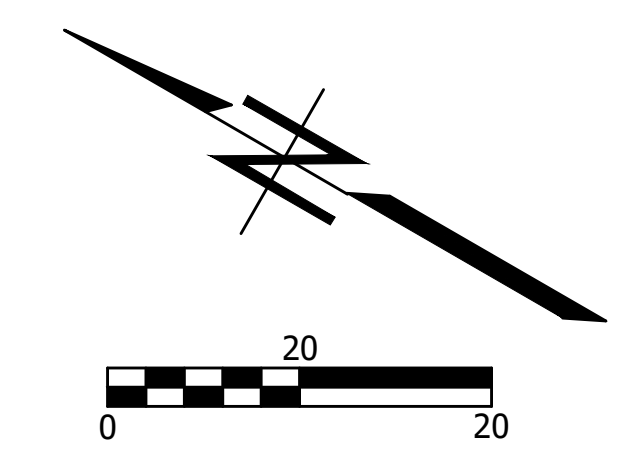
- ROW LINE
- ALIGNMENT CENTERLINE
- XXX --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- XXX --- MAJOR CONTOUR
- MINOR CONTOUR
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Diagonal Hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Cross-hatched Box] ASPHALT TRUCK APRON
- [Stippled Box] CONCRETE TRUCK APRON
- [Grid Box] STAMPED CEMENT CONCRETE
- [Dotted Box] CENTER ISLAND LANDSCAPING



PLAN VIEW
 SCALE: 1" = 20'



PROFILE VIEW
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 4'



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



**NISQUALLY STATE
 PARK**

**PHASE 3C -
 ROUNDABOUT**

**ROADWAY PLAN &
 PROFILE
 (MPR 64+50 TO 66+50)**

RP5

SCALE
 1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

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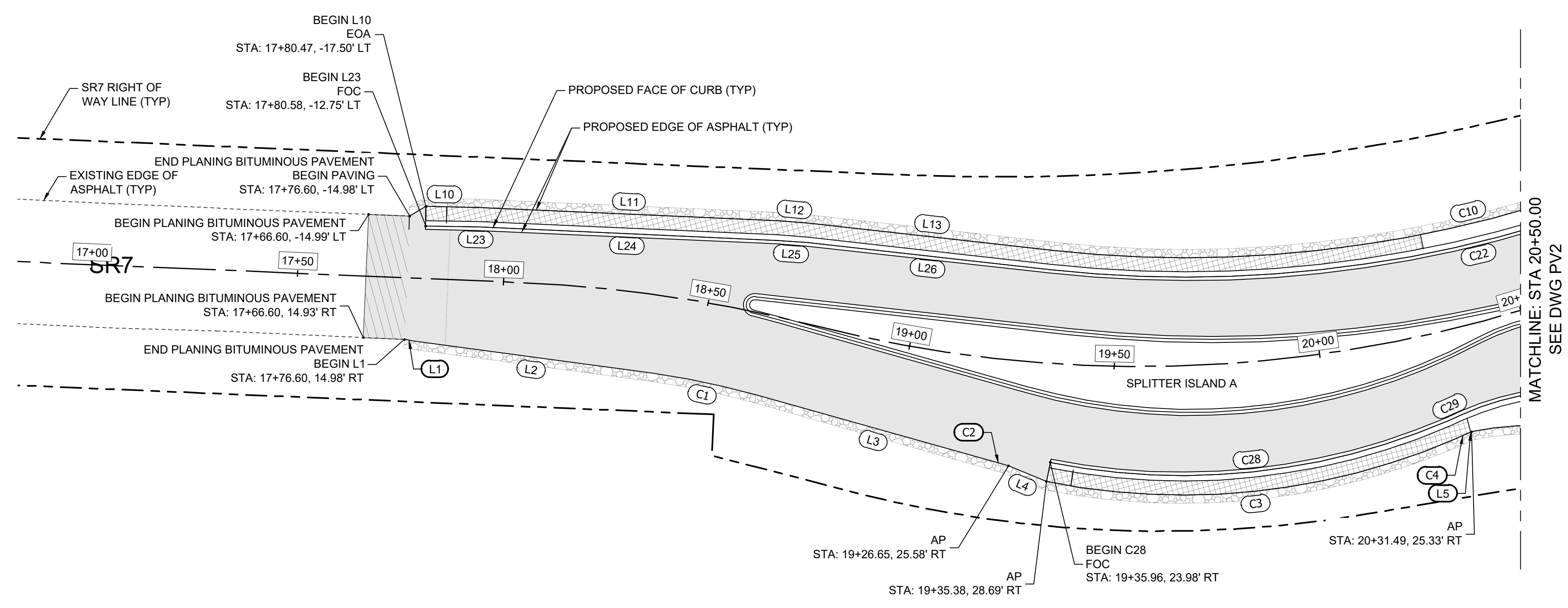
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

		DATE
	APP.	
	INT.	
	REVISIONS	
		NO.

LEGEND

- ROW LINE
- - - EX. EDGE OF ASPHALT
- ALIGNMENT CENTERLINE
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Cross-hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Grid Box] ASPHALT TRUCK APRON
- [Dashed Box] 2' CSBC
- [Double Line] CURB 1 - TRUCK APRON (PER WSDOT STD PLAN F-10.18-03)
- [Triple Line] CURB 2 - CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
- [Quadruple Line] CURB 3 - CENTRAL ISLAND CURB (PER WSDOT STD PLAN F-10.18-03)



LINE DATA TABLE

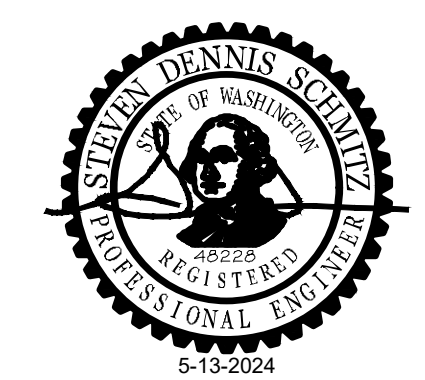
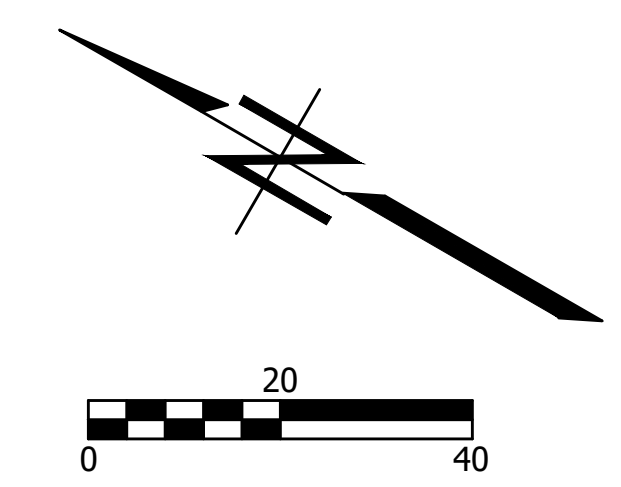
LINE #	LENGTH	BEARING
L1	2.22	S19°43'02"E
L2	58.48	S22°19'56"E
L3	80.58	S14°15'53"E
L4	9.87	S1°20'03"E
L5	0.49	S54°21'42"E
L10	12.86	S23°59'50"E
L11	22.68	S27°27'04"E
L12	7.58	S23°32'05"E
L13	58.45	S23°39'49"E
L23	12.79	S28°56'50"E
L24	72.54	S27°27'04"E
L25	7.42	S43°33'26"E
L26	59.37	S23°39'49"E

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	PI	TANGENT
C1	184.00	25.91	8°04'02"	0+73.67	12.88
C2	166.00	2.91	1°00'10"	1+48.61	1.45
C3	167.67	101.49	34°40'55"	2+12.42	52.35
C4	167.67	3.68	1°15'21"	2+63.20	1.84
C10	194.33	264.85	32°30'17"	2+95.25	138.65
C28	189.20	201.95	35°51'17"	2+61.25	105.38
C28	182.92	98.62	34°40'55"	0+50.87	50.87
C29	182.92	3.57	1°15'21"	1+00.40	1.79

NOTES:

- SEE SHEETS ID1 - ID2 FOR SPLITTER ISLAND AND CENTRAL ISLAND DETAILS.
- SEE TYPICAL SECTIONS FOR FLOWLINE LOCATION.



REGISTERED STAMP

WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



**NISQUALLY STATE
 PARK**

**PHASE 3C -
 ROUNDABOUT**

**PAVING PLAN
 (SR 7 17+25 TO 20+50)**

PV1

SCALE
1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

PERMIT # _____
 DATE _____
 DEVELOPMENT ENGINEER _____
 PIERCE COUNTY ORDINANCE NUMBER _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
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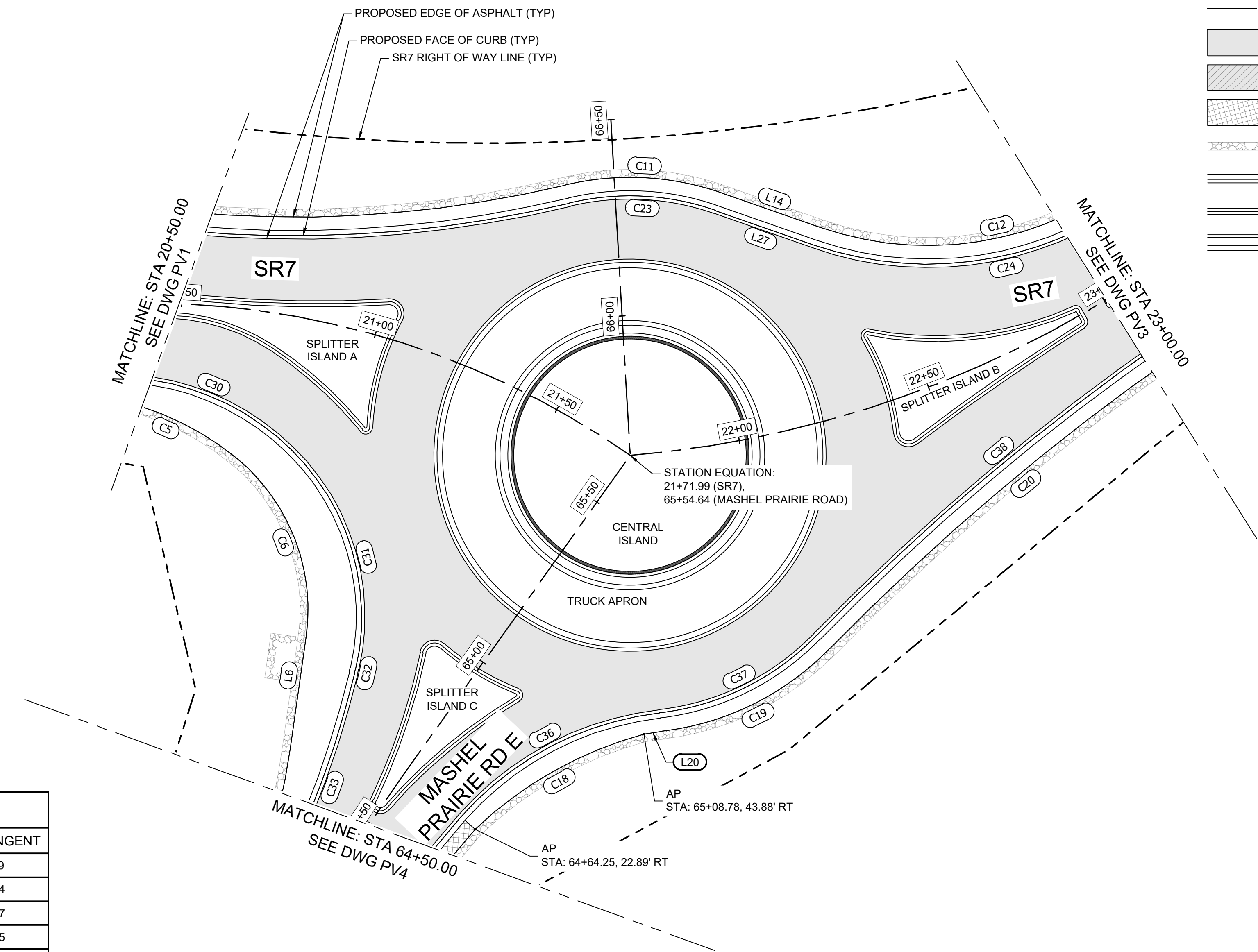
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.
	REVISIONS

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24

LEGEND

- ROW LINE
- - - EX. EDGE OF ASPHALT
- ALIGNMENT CENTERLINE
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Cross-hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Grid Box] ASPHALT TRUCK APRON
- [Dashed Box] 2' CSBC
- [Double Line] CURB 1 - TRUCK APRON (PER WSDOT STD PLAN F-10.18-03)
- [Triple Line] CURB 2 - CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
- [Quadruple Line] CURB 3 - CENTRAL ISLAND CURB (PER WSDOT STD PLAN F-10.18-03)



CURVE DATA TABLE

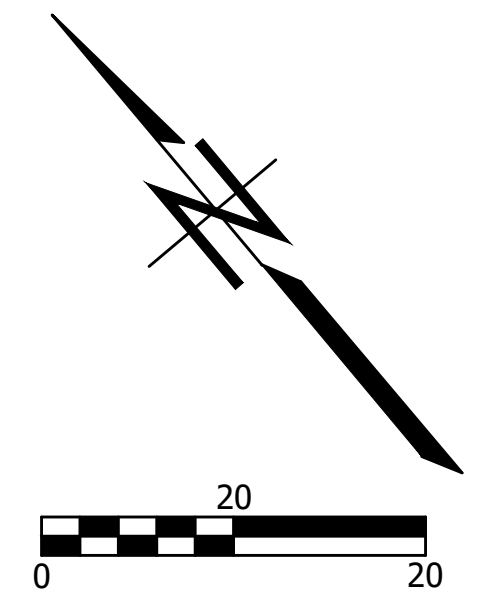
CURVE #	RADIUS	LENGTH	DELTA	PI	TANGENT
C5	71.91'	38.82'	30°55'48"	2+85.58	19.89
C6	50.00'	51.42'	58°55'11"	3+32.75	28.24
C11	70.67'	40.41'	32°45'39"	3+78.00	20.77
C12	83.33'	92.77'	63°47'01"	4+75.86	51.85
C18	99.81'	49.74'	28°33'11"	3+26.64	25.40
C19	70.67'	48.49'	39°18'49"	3+80.80	25.24
C20	594.33'	130.73'	12°36'11"	4+69.67	65.63
C23	65.92'	37.69'	32°45'39"	3+79.47	19.38
C24	88.08'	98.06'	63°47'01"	4+78.97	54.81
C30	64.08'	59.82'	53°29'11"	1+34.48	32.29
C31	59.08'	55.81'	54°07'27"	1+92.19	30.19
C32	50.06'	1.05'	1°12'25"	2+18.35	0.53
C33	237.08'	66.08'	15°58'14"	2+52.13	33.26
C36	79.08'	58.25'	42°12'03"	0+88.15	30.52
C37	65.92'	45.23'	39°18'49"	1+39.43	23.55
C38	599.08'	131.78'	12°36'11"	2+27.27	66.16

LINE DATA TABLE

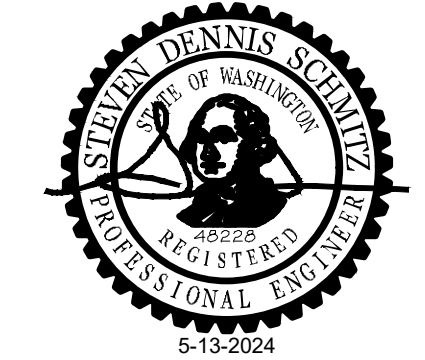
LINE #	LENGTH	BEARING
L6	28.43'	S48°04'39"W
L14	26.38'	S30°44'27"E
L20	4.58'	S58°18'42"E
L27	26.38'	S30°44'27"E

NOTES:

- SEE SHEETS ID1 - ID2 FOR SPLITTER ISLAND AND CENTRAL ISLAND DETAILS.
- SEE TYPICAL SECTIONS FOR FLOWLINE LOCATION.



WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



**NISQUALLY STATE
 PARK**

**PHASE 3C -
 ROUNDABOUT**

**PAVING PLAN
 (SR 7 20+50 TO 23+00)**

PV2

SCALE

1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

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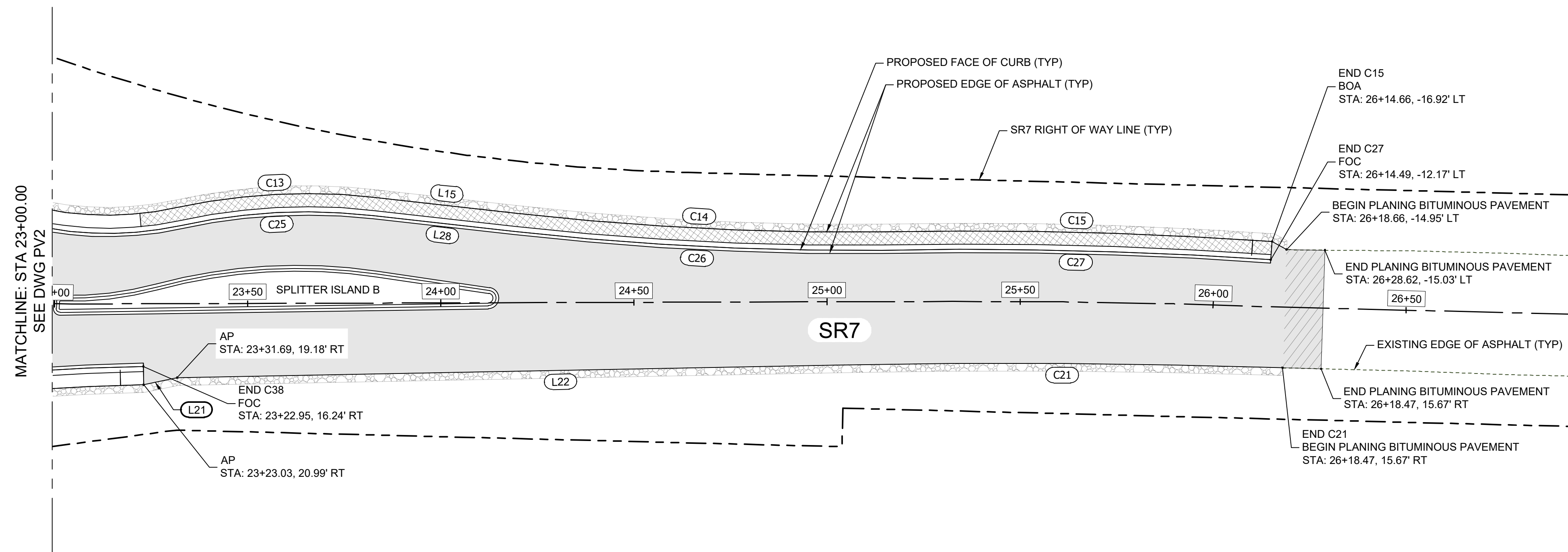
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

		DATE
		APP.
		INT.
		NO.

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24

LEGEND

- ROW LINE
- - - EX. EDGE OF ASPHALT
- ALIGNMENT CENTERLINE
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Cross-hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Grid Box] ASPHALT TRUCK APRON
- [Dashed Box] 2' CSBC
- [Double Line] CURB 1 - TRUCK APRON (PER WSDOT STD PLAN F-10.18-03)
- [Triple Line] CURB 2 - CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
- [Quadruple Line] CURB 3 - CENTRAL ISLAND CURB (PER WSDOT STD PLAN F-10.18-03)



MATCHLINE: STA 23+00.00
SEE DWG PV2



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

PAVING PLAN (SR 7 23+00 TO 26+50)

PV3

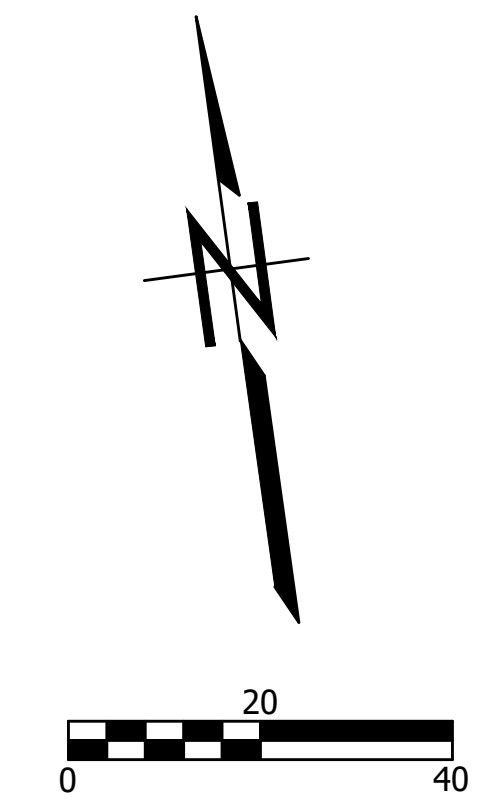
SCALE
1" = 20'

PARKS FILE#

CURVE #	RADIUS	LENGTH	DELTA	PI	TANGENT
C13	157.67'	51.67'	18°46'34"	5+42.85	26.07
C14	782.33'	94.59'	6°55'39"	6+52.69	47.35
C15	1122.61'	101.24'	5°10'02"	7+50.59	50.65
C21	2196.00'	114.01'	2°58'29"	7+72.89	57.02
C25	152.92'	50.11'	18°46'34"	5+47.50	25.28
C26	787.08'	95.19'	6°55'46"	6+56.87	47.65
C27	1117.86'	100.82'	5°10'04"	7+54.86	50.45

LINE #	LENGTH	BEARING
L15	36.89'	S75°44'36"E
L21	8.85'	N85°53'21"E
L22	172.25'	S83°15'25"E
L28	36.89'	S75°44'36"E

- NOTES:**
- SEE SHEETS ID1 - ID2 FOR SPLITTER ISLAND AND CENTRAL ISLAND DETAILS.
 - SEE TYPICAL SECTIONS FOR FLOWLINE LOCATION.



PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

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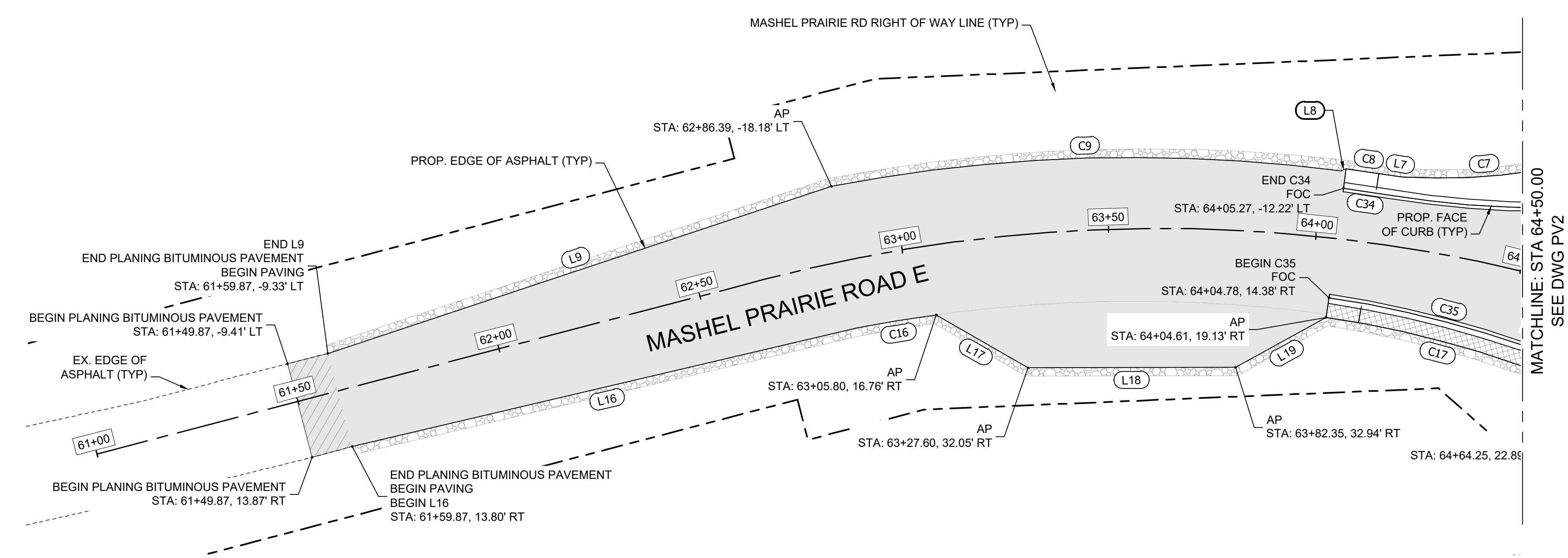
CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24

LEGEND

- ROW LINE
- - - EX. EDGE OF ASPHALT
- ALIGNMENT CENTERLINE
- [Hatched Box] HMA CLASS 1/2" PG 58H-22
- [Diagonal Hatched Box] PLANING BITUMINOUS PAVEMENT (SEE DETAIL 2 ON SHEET RS1)
- [Cross-hatched Box] ASPHALT TRUCK APRON
- [Dotted Box] 2' CSBC
- [Double Line] CURB 1 - TRUCK APRON (PER WSDOT STD PLAN F-10.18-03)
- [Triple Line] CURB 2 - CEMENT CONCRETE CURB & GUTTER (PER WSDOT STD PLAN F-10.18-03)
- [Quadruple Line] CURB 3 - CENTRAL ISLAND CURB (PER WSDOT STD PLAN F-10.18-03)



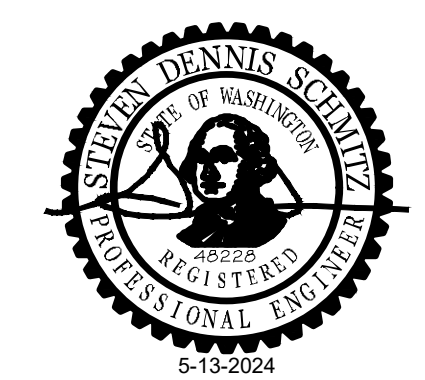
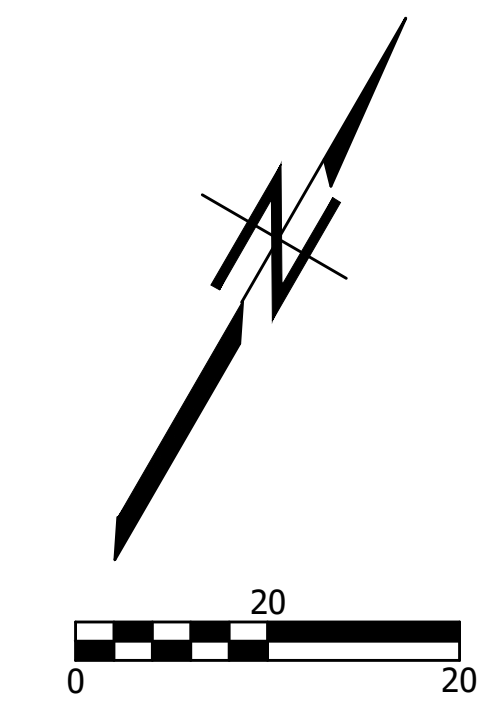
LINE DATA TABLE

LINE #	LENGTH	BEARING
L7	2.27'	S68°58'54"W
L8	1.34'	S37°32'22"W
L9	127.75'	S41°37'48"W
L16	125.05'	N46°47'51"E
L17	25.47'	N89°53'24"E
L18	49.97'	N59°53'24"E
L19	24.89'	N31°05'27"E

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	PI	TANGENT
C7	150.00'	39.46'	15°04'25"	4+04.20	19.85
C8	388.33'	11.67'	1°43'20"	4+31.93	5.84
C9	387.67'	123.29'	18°13'17"	5+01.27	62.17
C16	353.00'	19.29'	3°07'50"	1+34.70	9.65
C17	252.33'	56.57'	12°50'40"	2+73.07	28.40
C34	383.58'	11.53'	1°43'20"	2+90.73	5.77
C35	257.08'	57.63'	12°50'40"	0+28.94	28.94

- NOTES:**
- SEE SHEETS ID1 - ID2 FOR SPLITTER ISLAND AND CENTRAL ISLAND DETAILS.
 - SEE TYPICAL SECTIONS FOR FLOWLINE LOCATION.



REGISTERED STAMP

WASHINGTON
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 COMMISSION



**NISQUALLY STATE
 PARK**

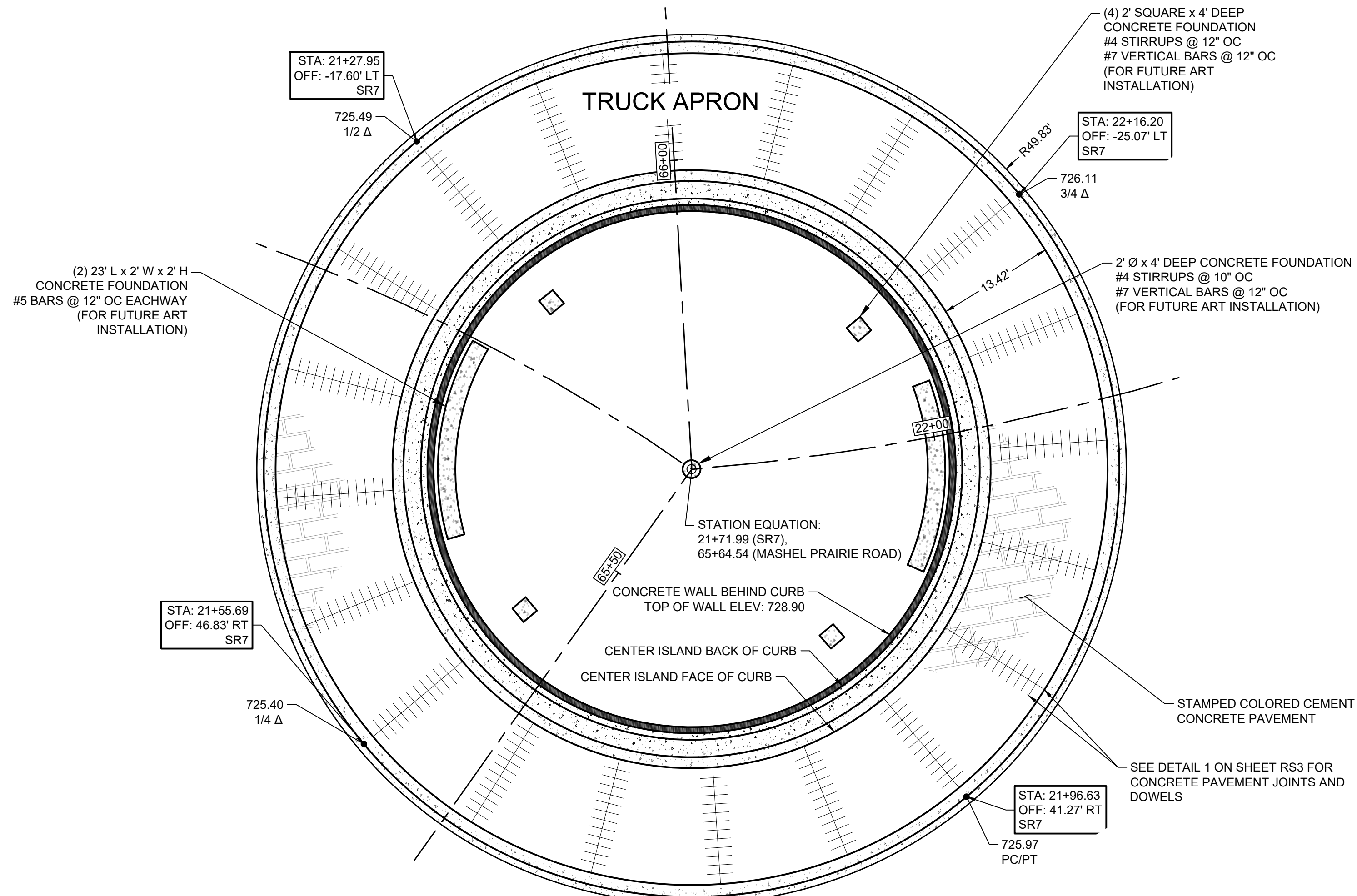
**PHASE 3C -
 ROUNDABOUT**

**PAVING PLAN
 (MPR 61+50 TO 64+50)**

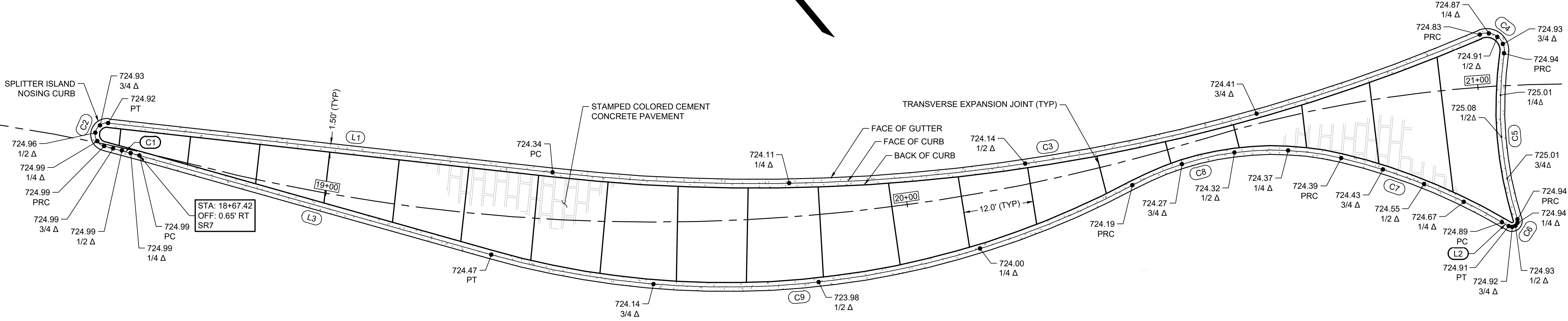
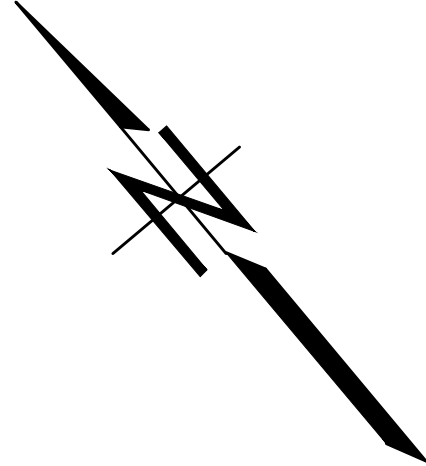
PV4

SCALE
1" = 20'

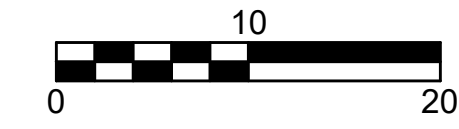
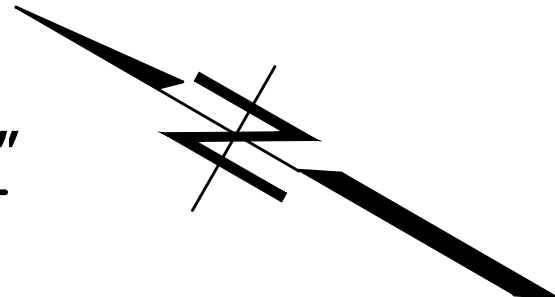
PARKS FILE#



CENTER ISLAND
SCALE: 1" = 10'



SPLITTER ISLAND "A"
SCALE: 1" = 10'



PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER	PERMIT #
PIERCE COUNTY ORDINANCE NUMBER	DATE
1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. 2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE. 3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL. 4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.	

NOTES:

- ALL DIMENSIONS SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- TRANSVERSE EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE & SHALL ALIGN WITH CURB JOINTS.
- SEE STD. PLAN F-10.18-03 FOR ROUNDABOUT CEMENT CONCRETE CURB DETAIL.
- ALL CURBS SHALL BE CLASS 4000 CONCRETE CONFORMING TO WSDOT STD SPEC 8-04.

LINE DATA TABLE

LINE #	LENGTH	BEARING
L1	76.61'	S23°40'50"E
L2	1.35'	N0°12'09"E
L3	62.62'	N14°16'05"W

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA
C1	203.00'	6.26'	1°45'57"
C2	2.00'	6.02'	172°21'01"
C3	315.00'	162.39'	29°32'12"
C4	3.00'	6.35'	121°18'52"
C5	65.00'	28.78'	25°22'07"
C6	1.00'	2.40'	137°28'26"
C7	101.00'	29.78'	16°53'38"
C8	51.00'	36.87'	41°25'01"
C9	148.00'	113.24'	43°50'26"

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



**NISQUALLY STATE
PARK**

**PHASE 3C -
ROUNDABOUT**

**CENTER ISLAND &
SPLITTER ISLAND
"A"**

ID1

SCALE
1" = 10'

PARKS FILE#

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
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CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

		DATE
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		REVISIONS

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

SPLITTER ISLAND "B" & "C"

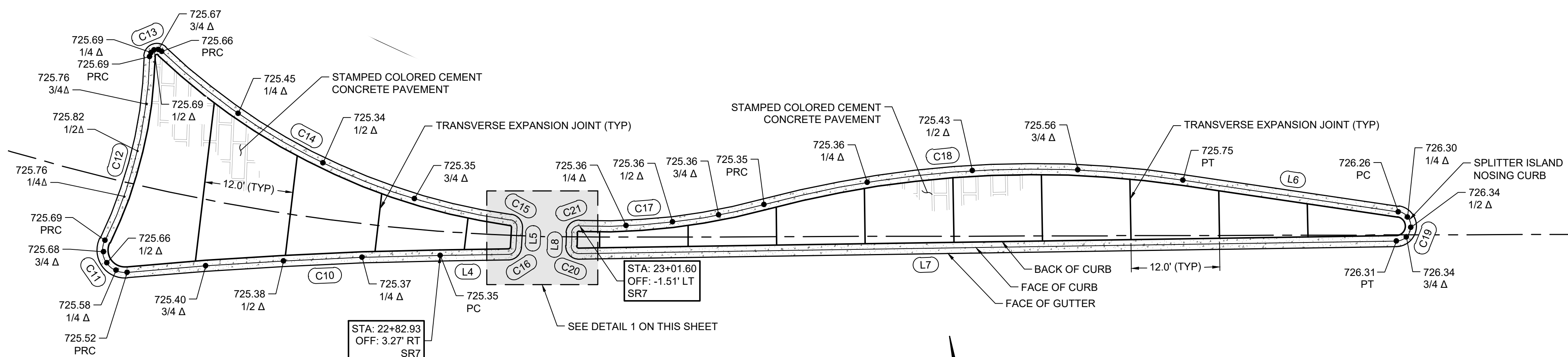
ID2

SCALE 1" = 10'

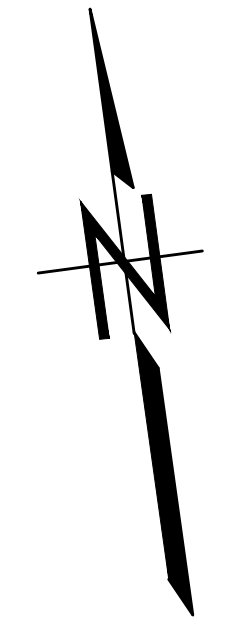
PARKS FILE#

NOTES:

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- TRANSVERSE EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE & SHALL ALIGN WITH CURB JOINTS.
- SEE STD. PLAN F-10.18-03 FOR ROUNDABOUT CEMENT CONCRETE CURB DETAIL.
- ALL CURBS SHALL BE CLASS 4000 CONCRETE CONFORMING TO WSDOT STD SPEC 8-04.

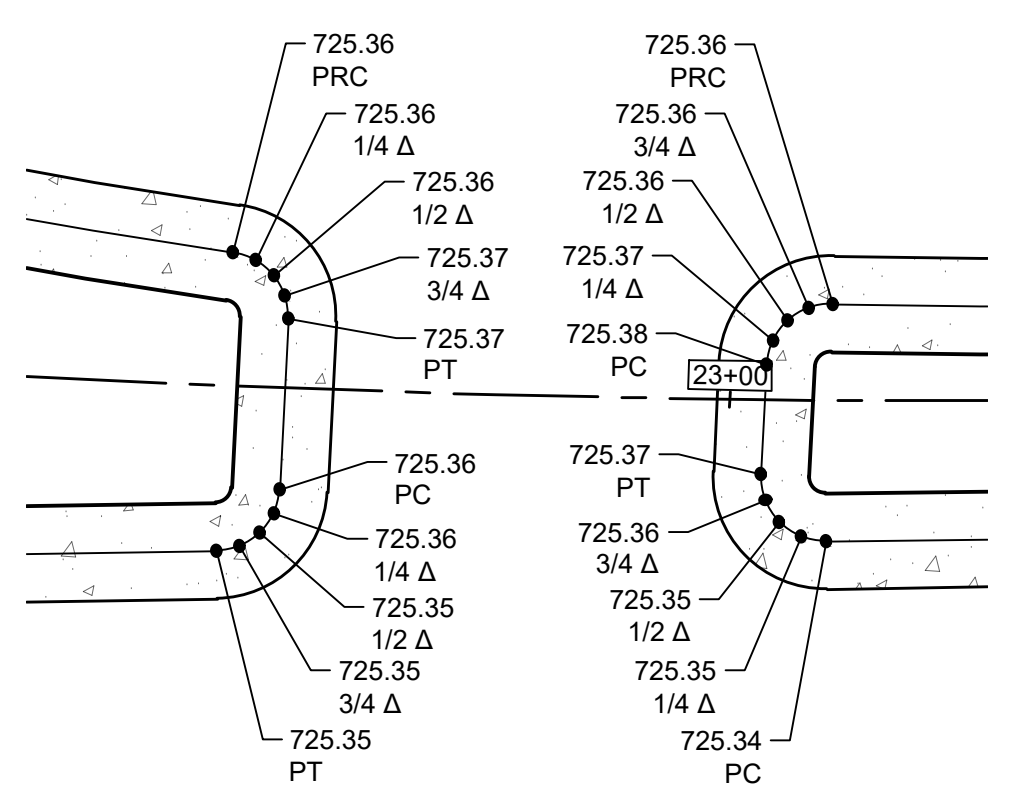


ISLAND "B" DETAILS
SCALE: 1" = 10'

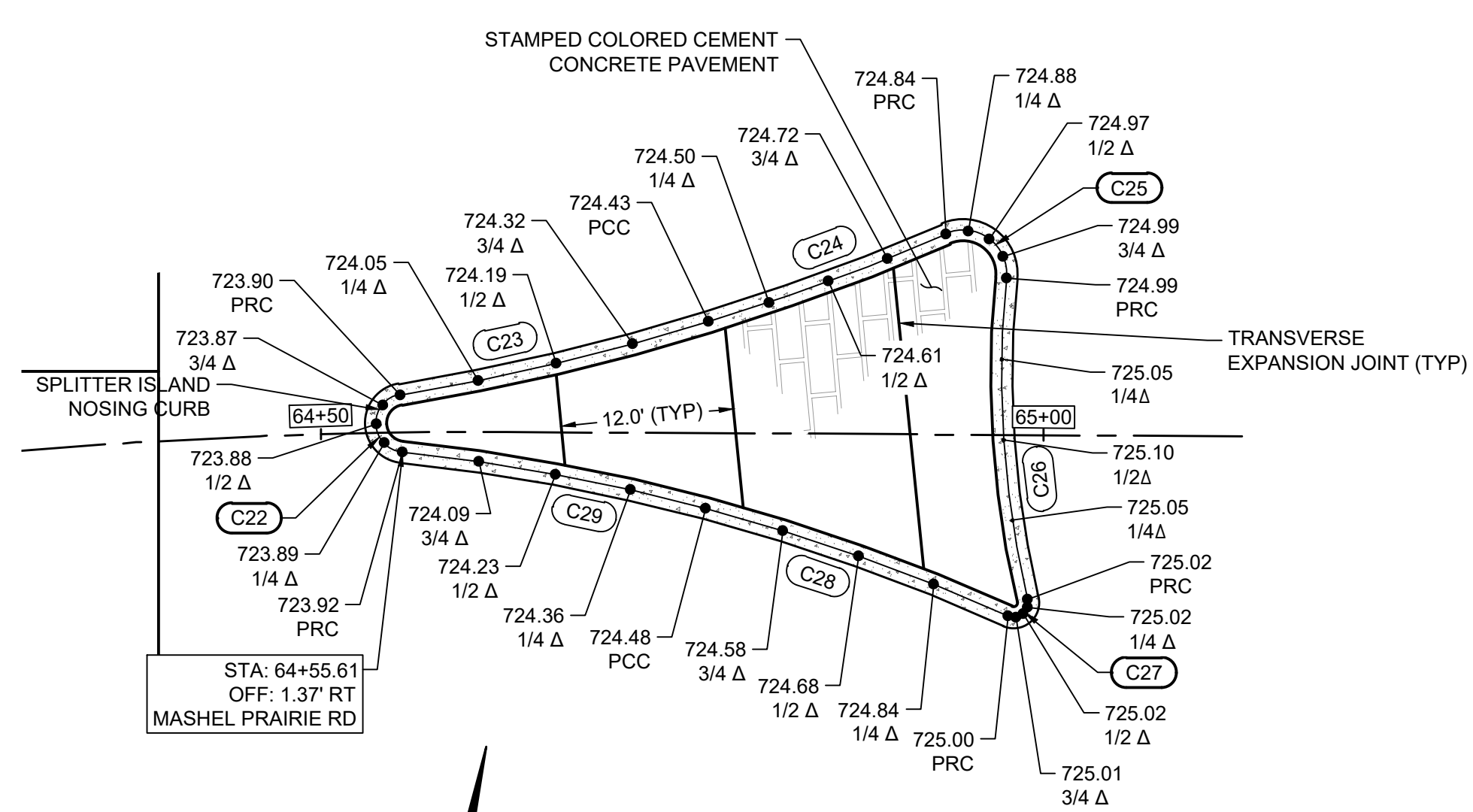
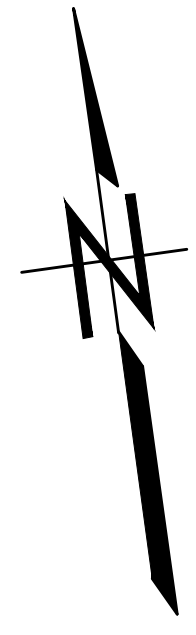


LINE #	LENGTH	BEARING
L4	9.29'	N83°00'33"W
L5	2.68'	S10°46'55"W
L6	29.51'	S73°46'21"E
L7	110.83'	N83°00'33"W
L8	1.72'	N10°46'55"E

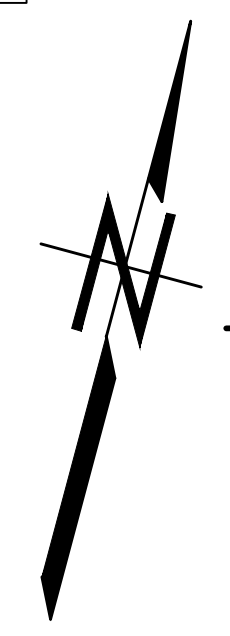
CURVE #	RADIUS	LENGTH	DELTA
C10	555.00'	42.49'	4°23'11"
C11	3.00'	6.34'	121°08'44"
C12	60.00'	25.82'	24°39'24"
C13	1.00'	2.31'	132°19'34"
C14	86.00'	53.33'	35°31'36"
C15	1.00'	1.48'	84°53'21"
C16	1.00'	1.50'	86°12'32"
C17	86.00'	25.27'	16°50'13"
C18	140.00'	57.26'	23°26'06"
C19	2.00'	5.95'	170°30'57"
C20	1.00'	1.64'	93°47'28"
C21	1.00'	1.55'	88°50'51"
C22	2.00'	5.74'	164°28'41"
C23	164.00'	21.94'	7°39'55"
C24	164.00'	17.54'	6°07'35"
C25	3.00'	6.23'	119°02'05"
C26	67.00'	22.38'	19°08'26"
C27	1.00'	2.23'	127°39'55"
C28	137.00'	22.24'	9°18'06"
C29	137.00'	21.39'	8°56'39"



DETAIL 1 - CURB ELEVATIONS
SCALE: 1" = 3'



ISLAND "C" DETAILS
SCALE: 1" = 10'



PUBLIC IMPROVEMENTS

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CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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	APP.
	INT.
	NO.
	REVISIONS

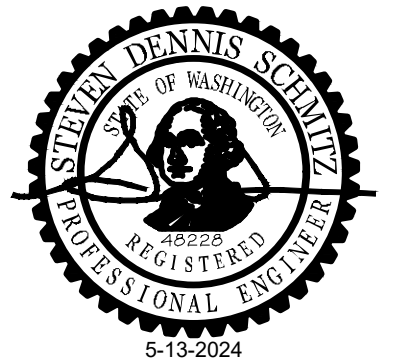
ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24

LEGEND

- ROW LINE (WSDOT)
- ALIGNMENT CENTERLINE
- EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- WIDE EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- WIDE DOTTED ENTRY LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- 12" GAP DOUBLE CENTERLINE STRIPING WITH RUMBLE STRIP AND PAVEMENT MARKERS (WSDOT STD PLAN M-20.10-04 AND M-65.10-03)

NOTES:

- ALL DIMENSIONS SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- ALL STRIPING SHALL BE TYPE D MMA PLASTIC PER WSDOT STD SPEC SECTION 9-34.
- ALIGNMENT LINE AND CURVE DATA PER SHEET AL.



REGISTERED STAMP

WASHINGTON
STATE
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COMMISSION



NISQUALLY STATE
PARK

PHASE 3C -
ROUNDAABOUT

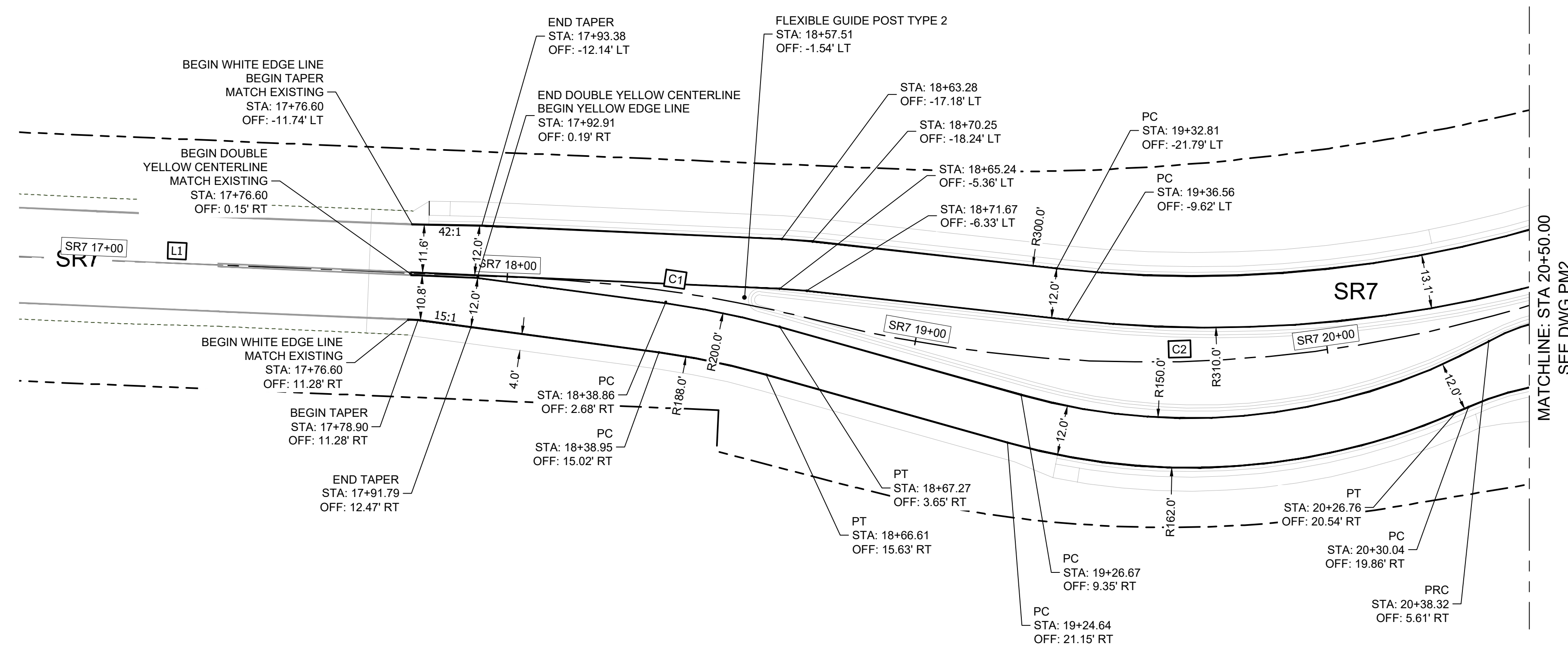
PAVEMENT
MARKINGS PLAN
(SR7 17+25 TO 20+50)

PM1

SCALE

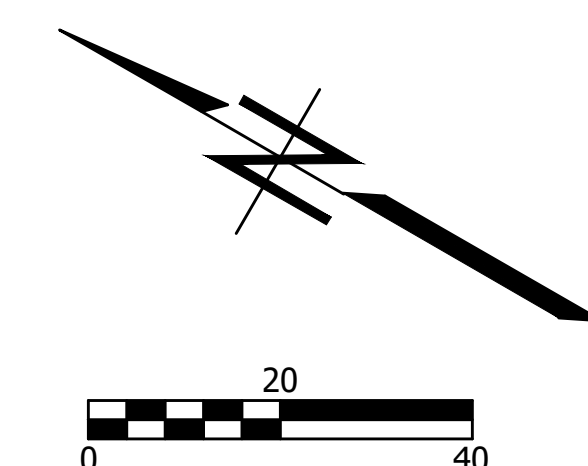
1" = 20'

PARKS FILE#



PAVEMENT MARKINGS PLAN

SCALE: 1" = 20'



PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____	PERMIT # _____
PIERCE COUNTY ORDINANCE NUMBER _____	DATE _____
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	APP.
	INT.
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	REVISIONS

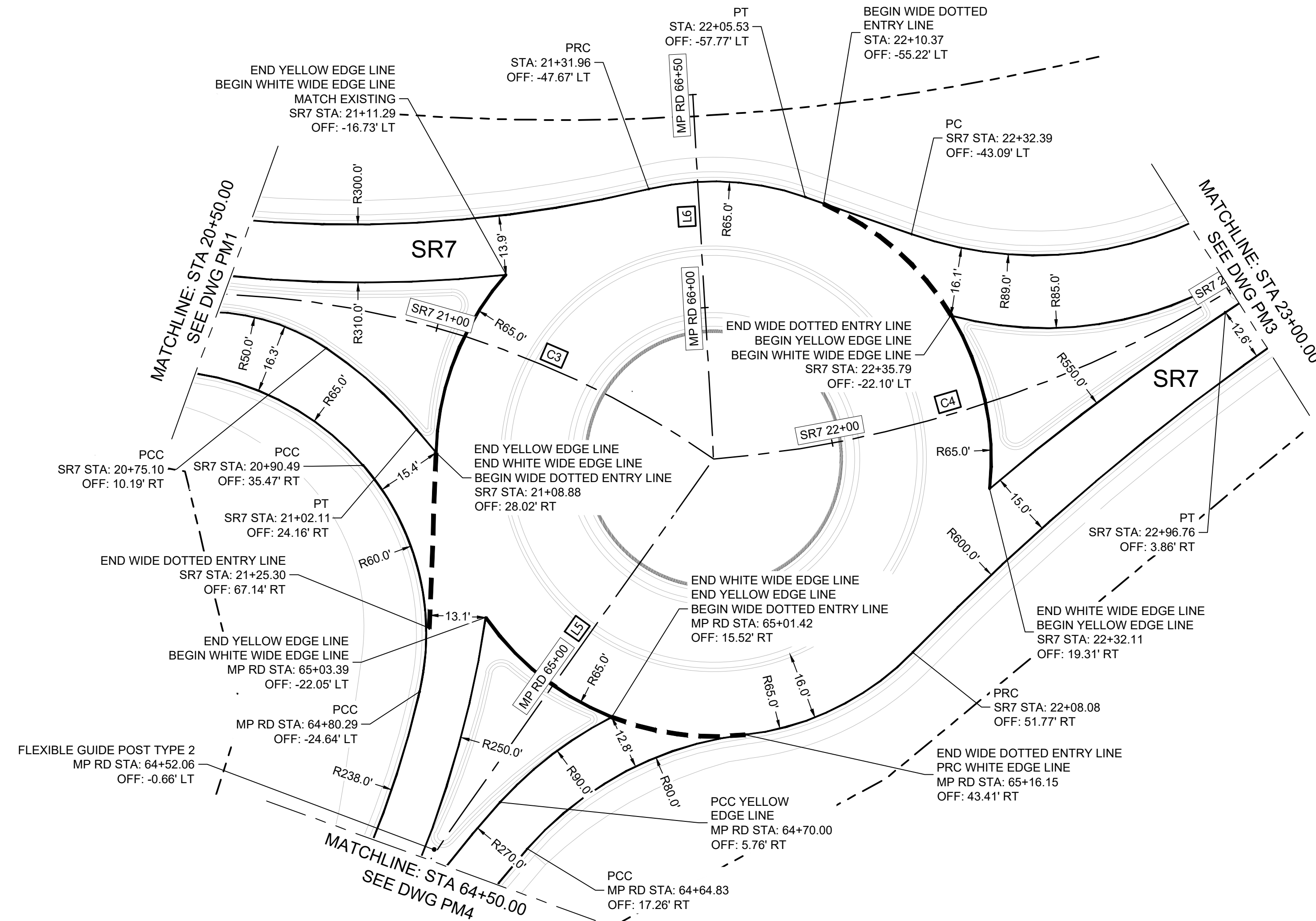
ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
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CHECKED (FIELD)	MTM	02/23/24

LEGEND

	ROW LINE (WSDOT)
	ALIGNMENT CENTERLINE
	EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	WIDE EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	WIDE DOTTED ENTRY LINE STRIPING (WSDOT STD PLAN M-20.10-04)
	12" GAP DOUBLE CENTERLINE STRIPING (WSDOT STD PLAN M-20.10-04)

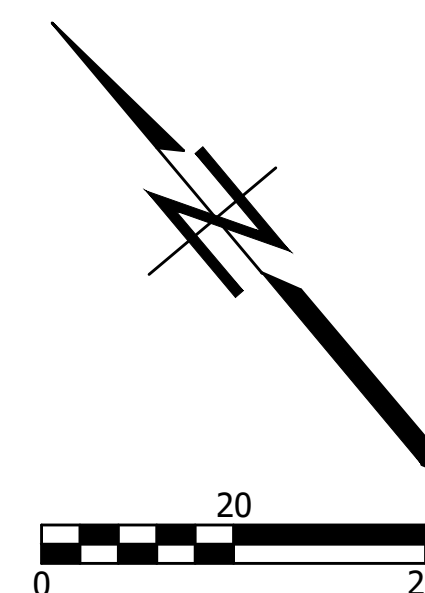
NOTES:

- ALL DIMENSIONS SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- ALL STRIPING SHALL BE TYPE D MMA PLASTIC PER WSDOT STD SPEC SECTION 9-34.
- ALIGNMENT LINE AND CURVE DATA PER SHEET AL.



PAVEMENT MARKINGS PLAN

SCALE: 1" = 20'



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
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COMMISSION



**NISQUALLY STATE
PARK**

**PHASE 3C -
ROUNDBOUT**

**PAVEMENT
MARKINGS PLAN
(SR7 20+50 TO 23+00)**

PM2

SCALE

1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
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1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

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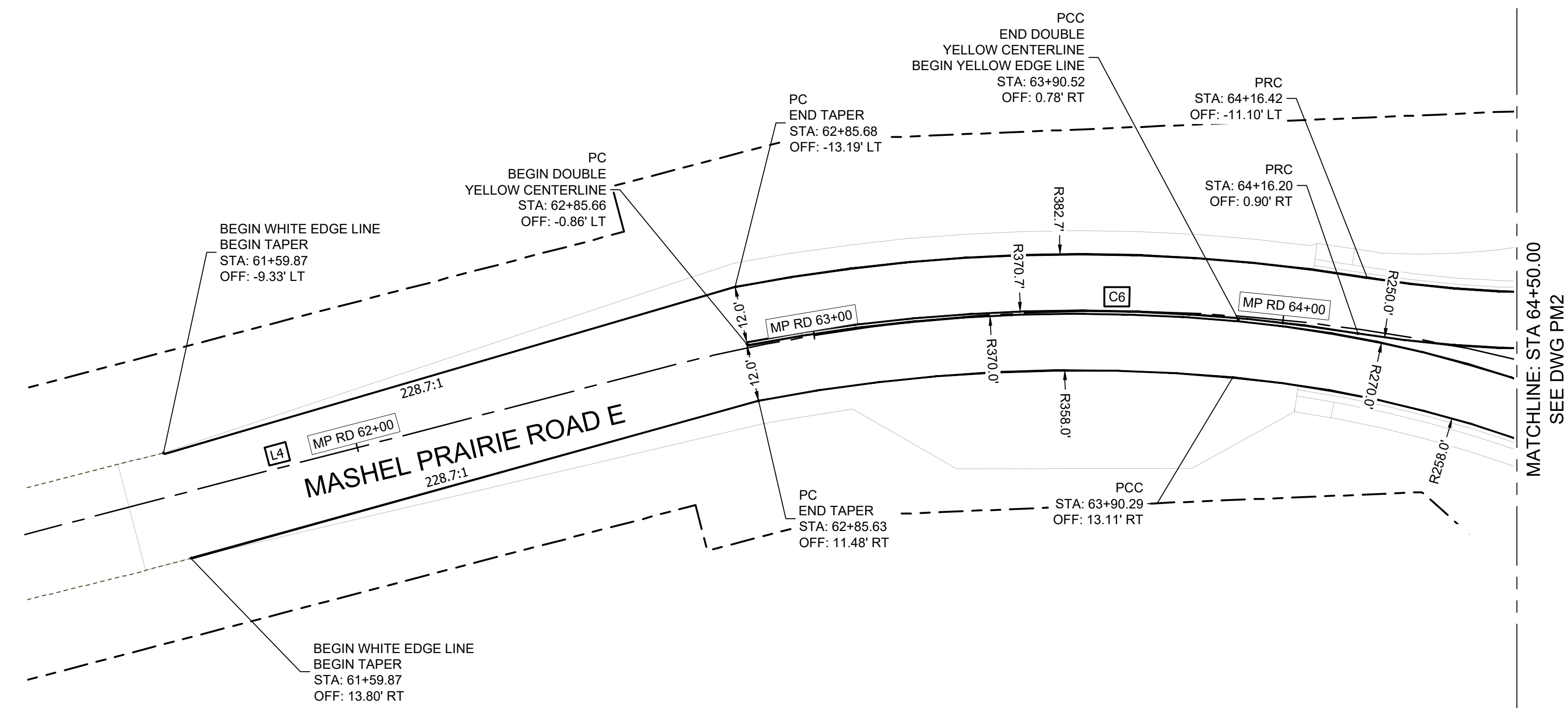
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

LEGEND

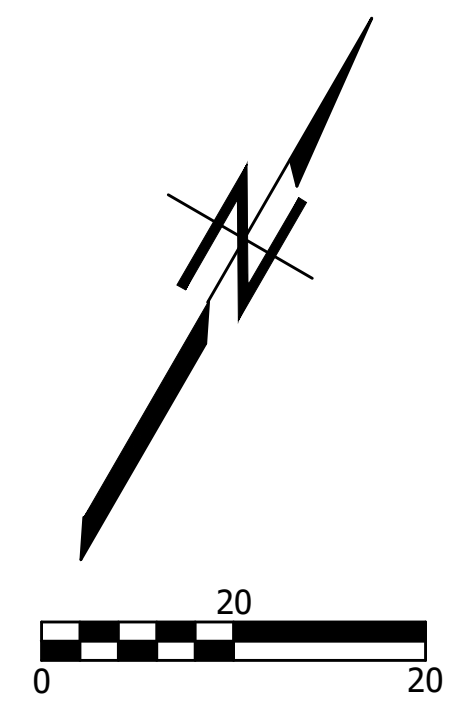
- ROW LINE (WSDOT)
- ALIGNMENT CENTERLINE
- EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- WIDE EDGE LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- WIDE DOTTED ENTRY LINE STRIPING (WSDOT STD PLAN M-20.10-04)
- 12" GAP DOUBLE CENTERLINE STRIPING (WSDOT STD PLAN M-20.10-04)

NOTES:

1. ALL DIMENSIONS SHOWN IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. ALL STRIPING SHALL BE TYPE D MMA PLASTIC PER WSDOT STD SPEC SECTION 9-34.
3. ALIGNMENT LINE AND CURVE DATA PER SHEET AL.



PAVEMENT MARKINGS PLAN
 SCALE: 1" = 20'



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**NISQUALLY STATE
 PARK**

**PHASE 3C -
 ROUNDABOUT**

**PAVEMENT
 MARKINGS PLAN
 (MPR 61+50 TO 64+50)**

PM4

SCALE
1" = 20'

PARKS FILE#

PUBLIC IMPROVEMENTS

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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

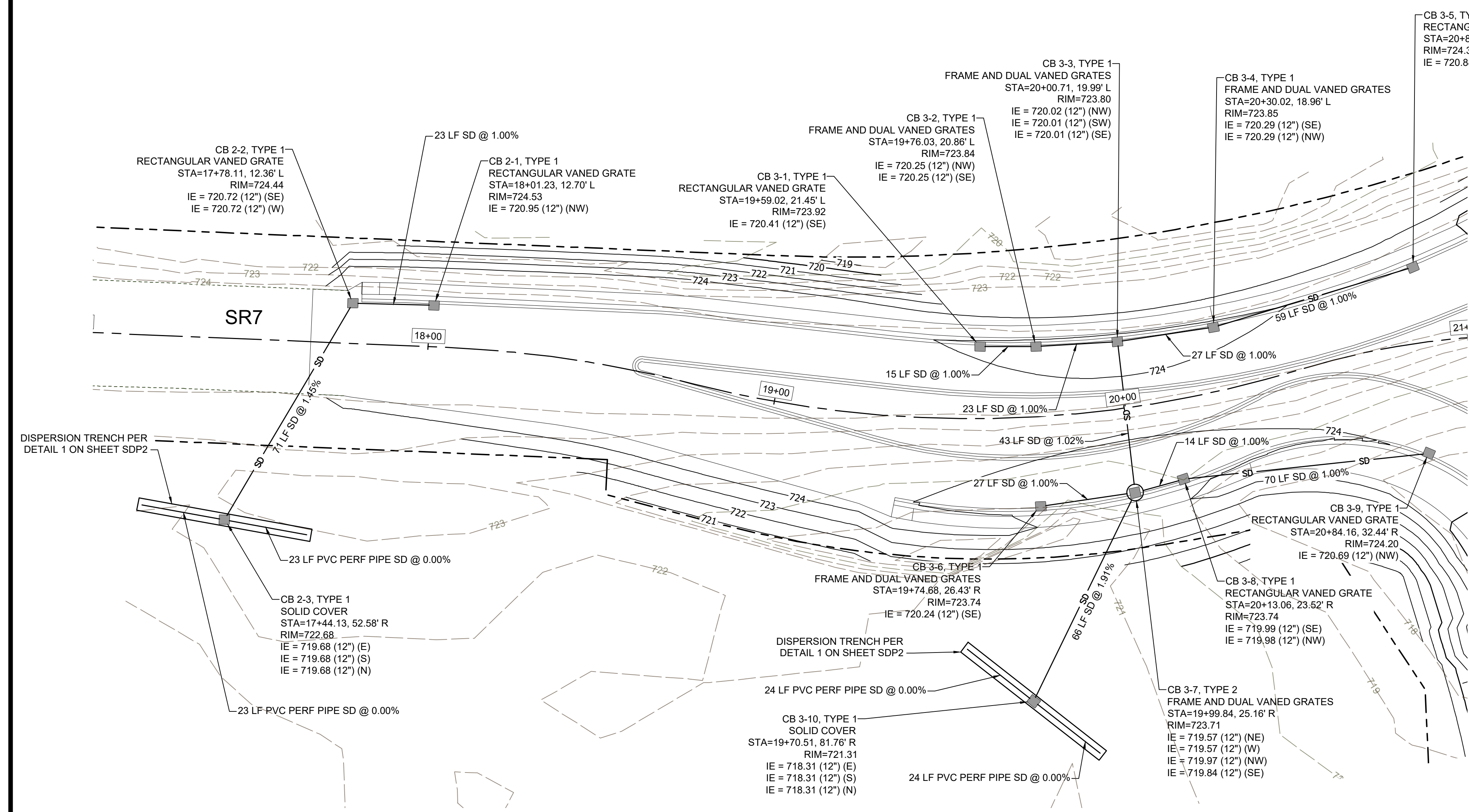
PHASE 3C - ROUNDABOUT

STORM DRAINAGE PLAN

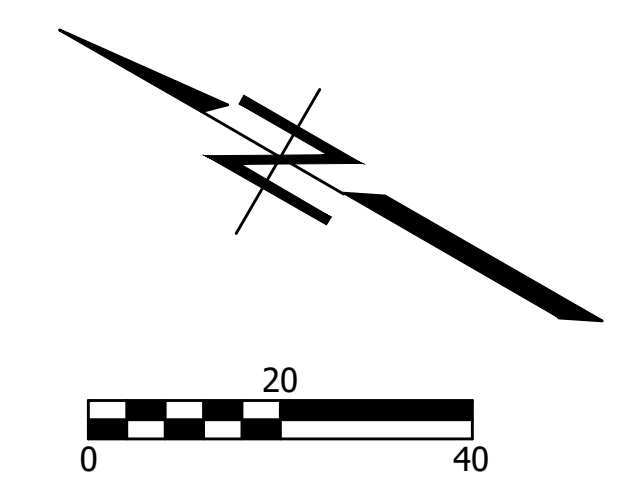
SDP1

SCALE
1" = 20'

PARKS FILE#



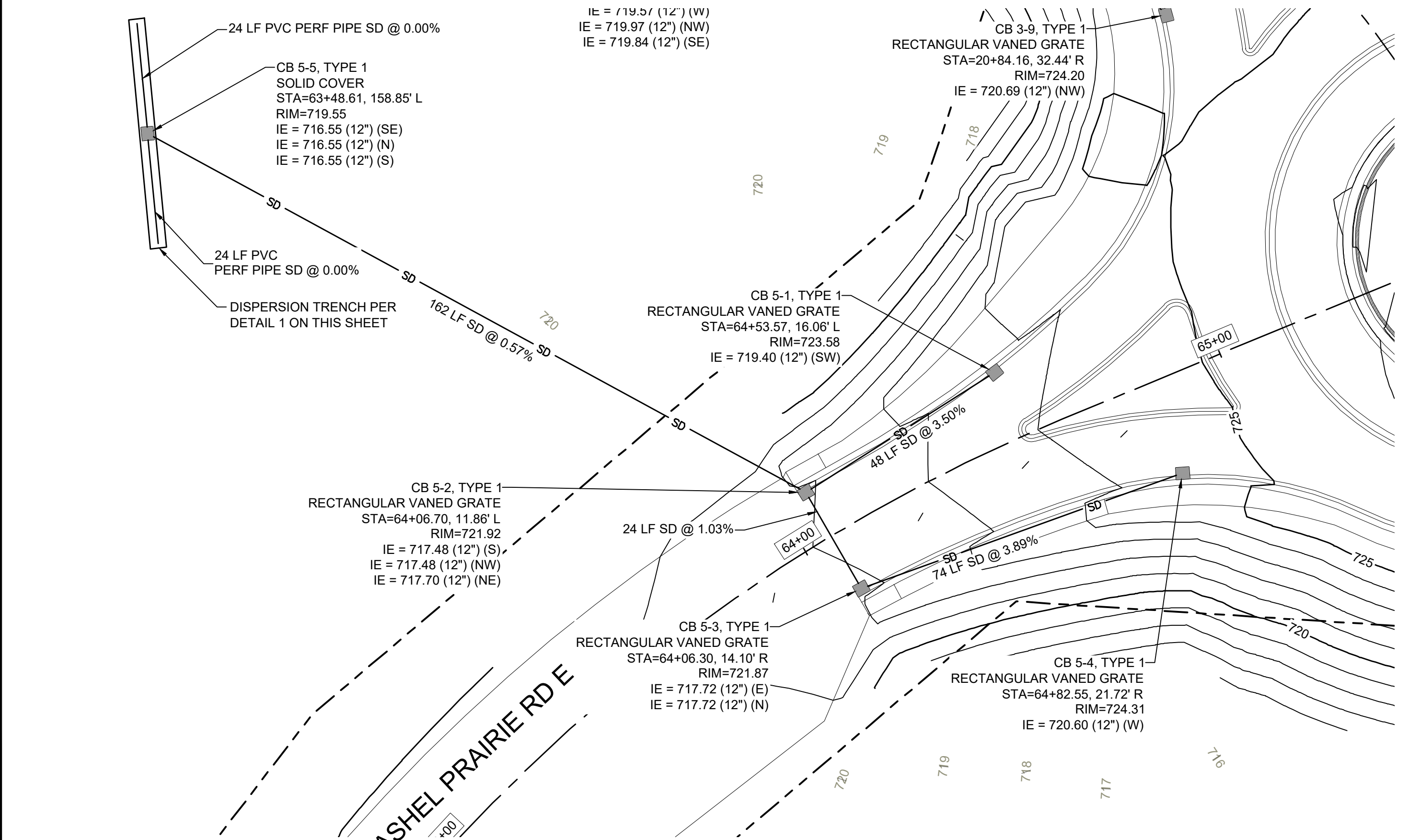
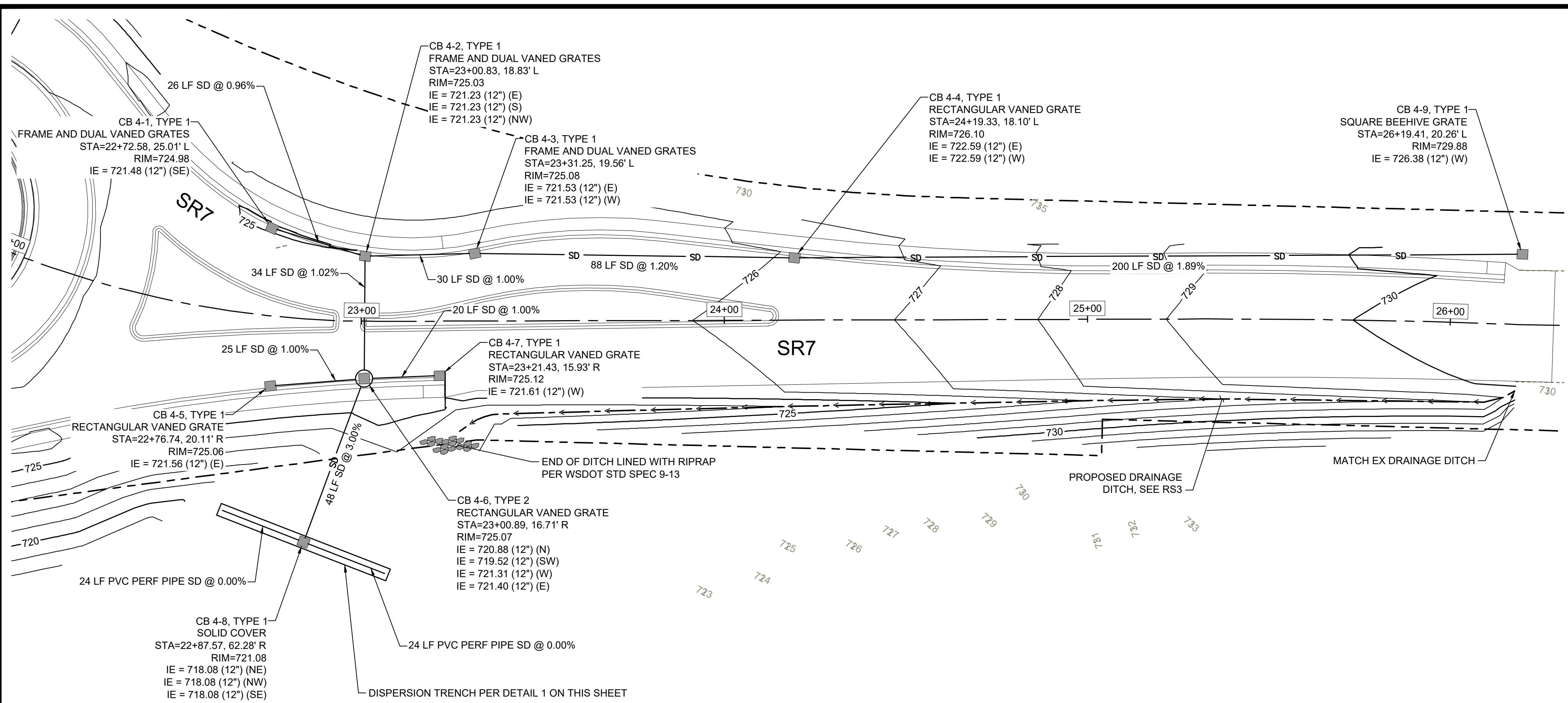
STORM DRAINAGE PLAN - SR7 NORTH
SCALE: 1" = 20'



LEGEND

---	ROW LINE
—SD—	12" STORM DRAIN
■	CATCH BASIN TYPE 1
●	CATCH BASIN TYPE 2

- NOTES:**
- CATCH BASIN LOCATIONS ARE AT CENTER OF STRUCTURE.
 - TYPE 1 CATCH BASINS PER WSDOT STD PLAN B-5.20.03.
 - TYPE 2 CATCH BASINS PER WSDOT STD PLAN B-10.20.02.
 - ALL CATCH BASINS GRATES PER WSDOT STD PLAN B-30.30-03 AND B-30.40-03, UNLESS OTHERWISE NOTED.
 - INSTALL CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STD PLAN F-10.16-00 AT ALL CATCH BASIN LOCATED ALONG THE CURB AND GUTTER.
 - ALL STORM DRAINS SHALL BE 12" DIAMETER UNLESS OTHERWISE NOTED.



STORM DRAINAGE PLAN - MASHIEL PRAIRIE
SCALE: 1" = 20'

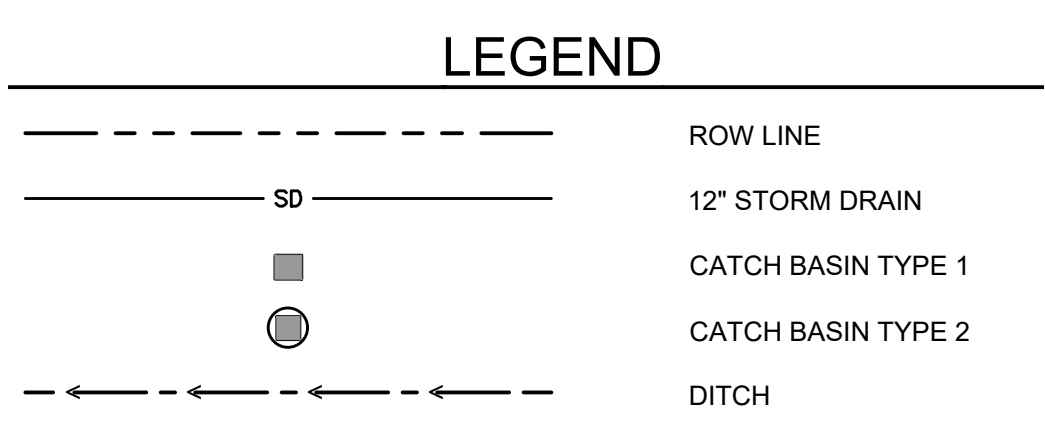
PUBLIC IMPROVEMENTS

PERMIT # _____ DATE _____

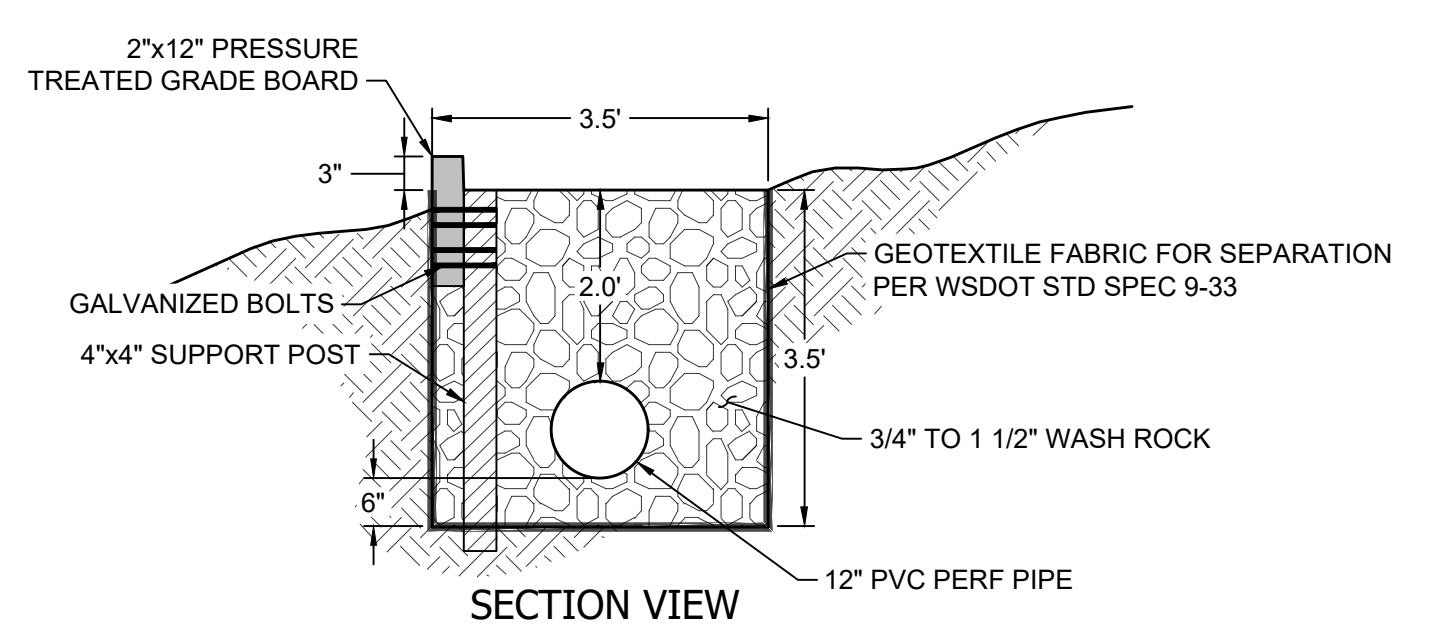
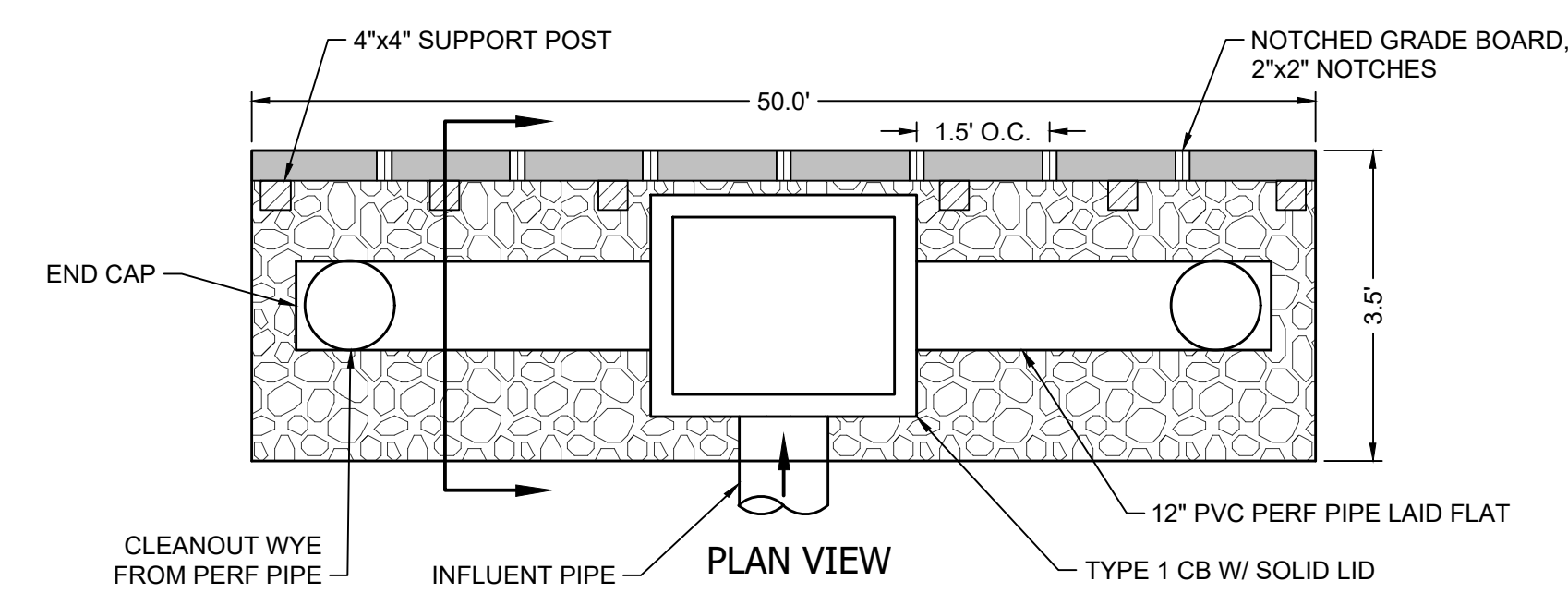
DEVELOPMENT ENGINEER _____

PIERCE COUNTY ORDINANCE NUMBER _____

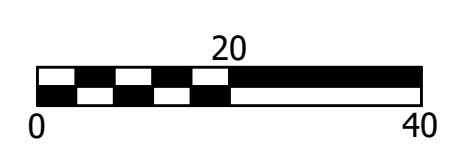
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- NOTES:**
- CATCH BASIN LOCATIONS ARE AT CENTER OF STRUCTURE.
 - TYPE 1 CATCH BASINS PER WSDOT STD PLAN B-5.20.03.
 - TYPE 2 CATCH BASINS PER WSDOT STD PLAN B-10.20.02.
 - ALL CATCH BASINS GRATES PER WSDOT STD PLAN B-30.30-03 AND B-30.40-03, UNLESS OTHERWISE NOTED.
 - INSTALL CEMENT CONCRETE CURB AND GUTTER PAN PER WSDOT STD PLAN F-10.16-00 AT ALL CATCH BASIN LOCATED ALONG THE CURB AND GUTTER.
 - ALL STORM DRAINS SHALL BE 12" DIAMETER UNLESS OTHERWISE NOTED.



DETAIL 1 - DISPERSION TRENCH
NTS



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME _____

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



**NISQUALLY STATE
PARK**

**PHASE 3C -
ROUNDAABOUT**

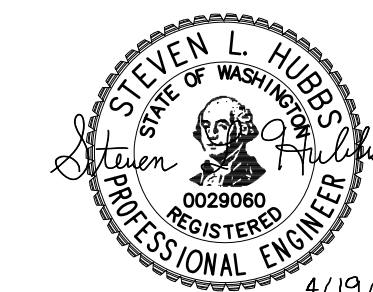
**STORM DRAINAGE
PLAN**

SDP2

SCALE
1" = 20'

PARKS FILE# _____

ACTION	BY	DATE
DESIGNED	SJK	4/19/24
DRAWN	JAE	4/19/24
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



NISQUALLY
STATE PARK

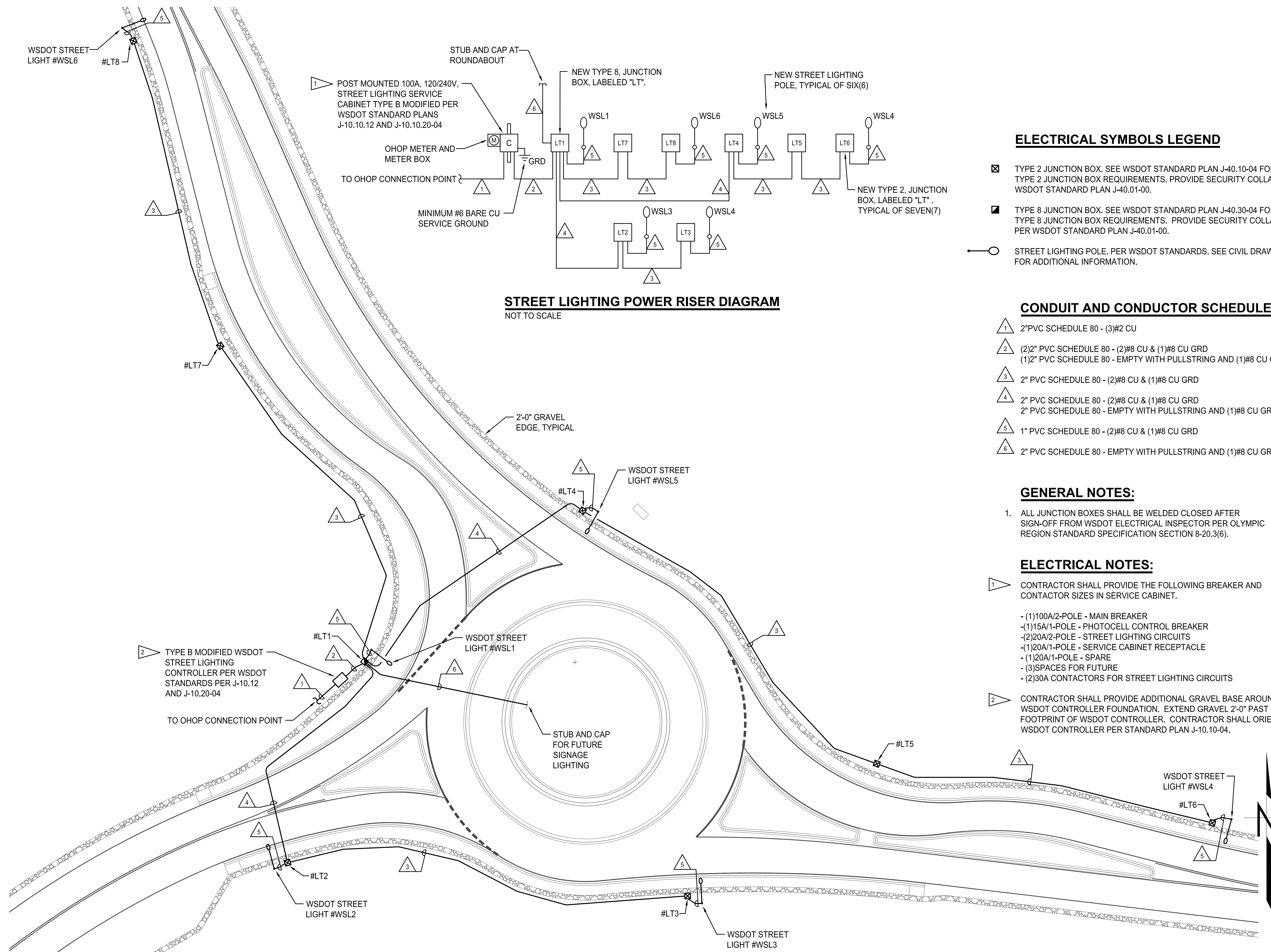
PHASE 3C -
ROUNDAABOUT

ROUNDAABOUT
ELECTRICAL
STREET LIGHTING
PLAN
ESL1

SCALE

AS NOTED

PARKS FILE#



ROUNDAABOUT ELECTRICAL STREET LIGHTING PLAN
SCALE: 1"=20'-0"

STREET LIGHTING POWER RISER DIAGRAM
NOT TO SCALE

ELECTRICAL SYMBOLS LEGEND

- ☒ TYPE 2 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-04 FOR TYPE 2 JUNCTION BOX REQUIREMENTS. PROVIDE SECURITY COLLAR PER WSDOT STANDARD PLAN J-40.01-00.
- ☒ TYPE 8 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.30-04 FOR TYPE 8 JUNCTION BOX REQUIREMENTS. PROVIDE SECURITY COLLAR PER WSDOT STANDARD PLAN J-40.01-00.
- STREET LIGHTING POLE. PER WSDOT STANDARDS. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

CONDUIT AND CONDUCTOR SCHEDULE:

- 1 2" PVC SCHEDULE 80 - (3)#2 CU
- 2 (2)2" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD
(1)2" PVC SCHEDULE 80 - EMPTY WITH PULLSTRING AND (1)#8 CU GRD
- 3 2" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD
- 4 2" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD
2" PVC SCHEDULE 80 - EMPTY WITH PULLSTRING AND (1)#8 CU GRD
- 5 1" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD
- 6 2" PVC SCHEDULE 80 - EMPTY WITH PULLSTRING AND (1)#8 CU GRD

GENERAL NOTES:

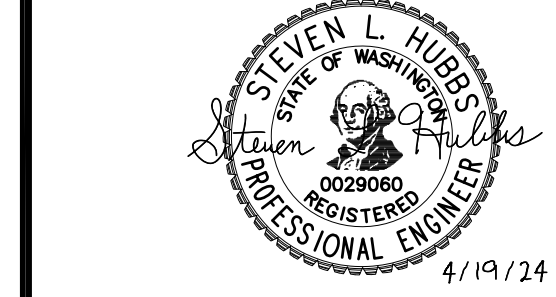
1. ALL JUNCTION BOXES SHALL BE WELDED CLOSED AFTER SIGN-OFF FROM WSDOT ELECTRICAL INSPECTOR PER OLYMPIC REGION STANDARD SPECIFICATION SECTION 8-20.3(6).

ELECTRICAL NOTES:

- 1 CONTRACTOR SHALL PROVIDE THE FOLLOWING BREAKER AND CONTACTOR SIZES IN SERVICE CABINET.
 - (1)100A/2-POLE - MAIN BREAKER
 - (1)15A/1-POLE - PHOTOCELL CONTROL BREAKER
 - (2)20A/2-POLE - STREET LIGHTING CIRCUITS
 - (1)20A/1-POLE - SERVICE CABINET RECEPTACLE
 - (1)20A/1-POLE - SPARE
 - (3)SPACES FOR FUTURE
 - (2)30A CONTACTORS FOR STREET LIGHTING CIRCUITS
- 2 CONTRACTOR SHALL PROVIDE ADDITIONAL GRAVEL BASE AROUND WSDOT CONTROLLER FOUNDATION. EXTEND GRAVEL 2'-0" PAST FOOTPRINT OF WSDOT CONTROLLER. CONTRACTOR SHALL ORIENT WSDOT CONTROLLER PER STANDARD PLAN J-10.10-04.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	SJK	4/19/24
DRAWN	JAE	4/19/24
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



NISQUALLY
STATE PARK

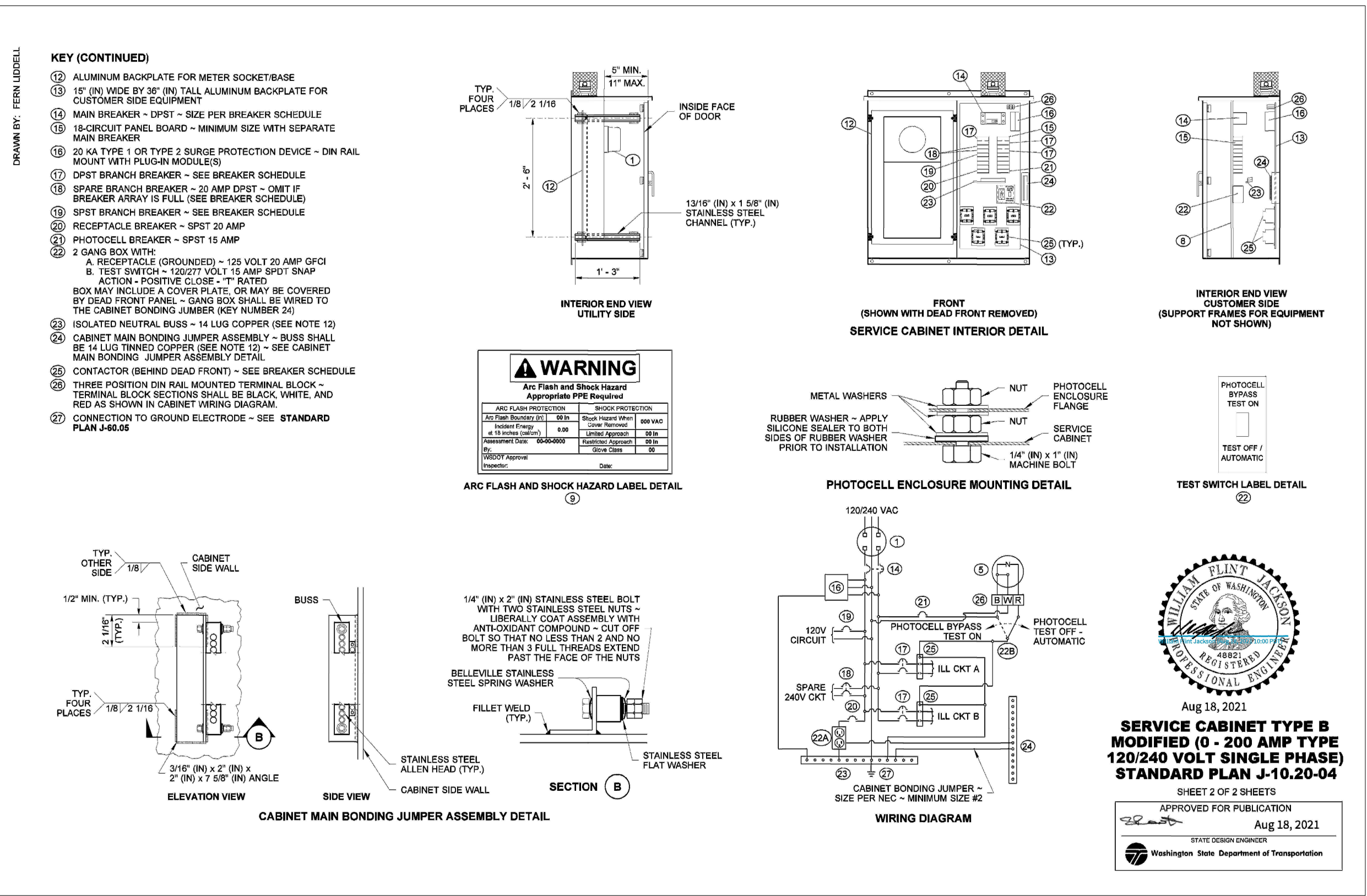
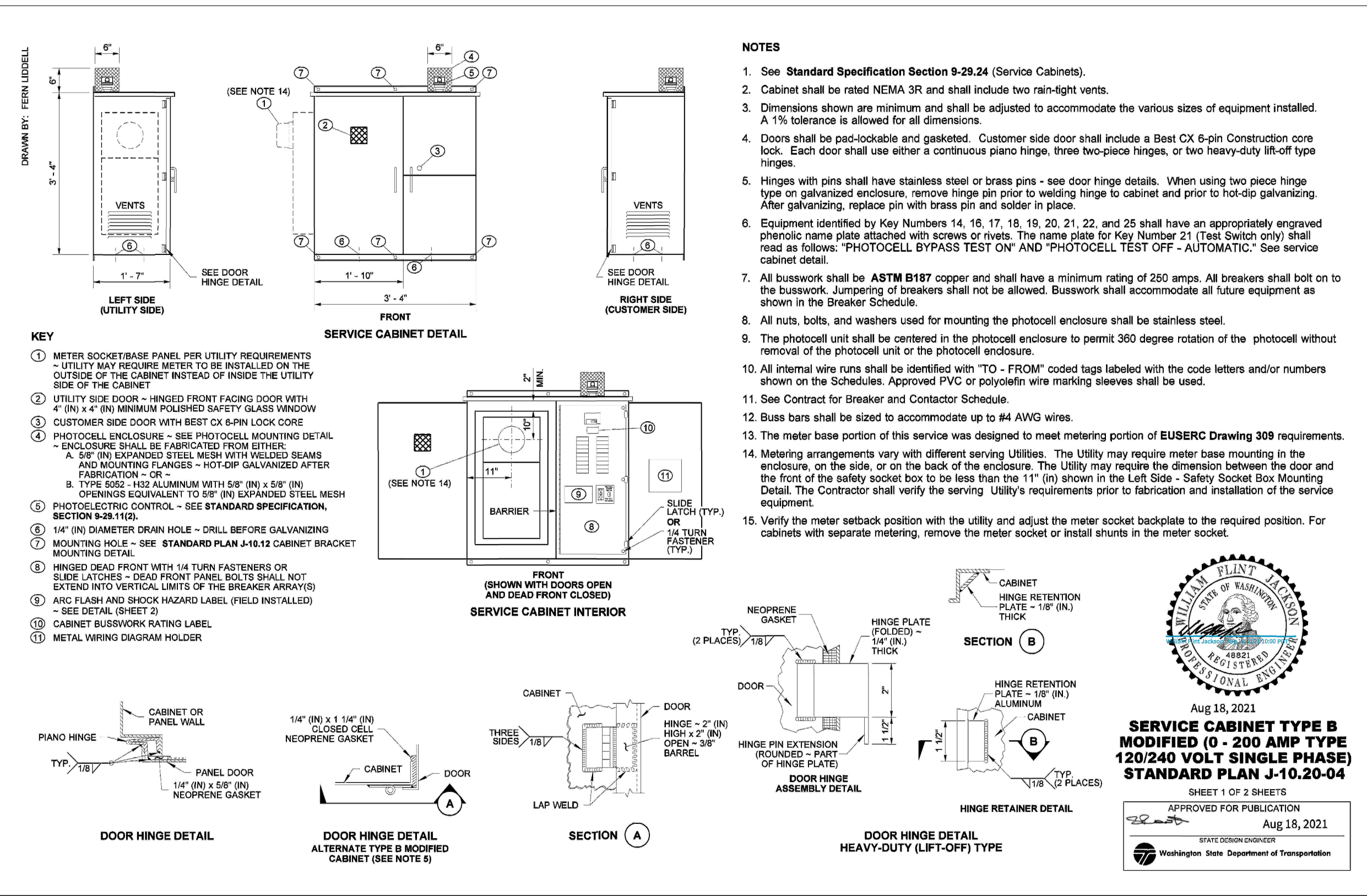
PHASE 3C -
ROUNDBOUT

ROUNDBOUT
ELECTRICAL
STREET LIGHTING
DETAILS
ESL2

SCALE

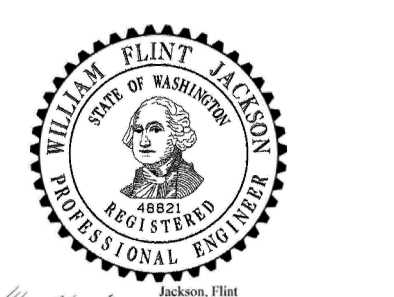
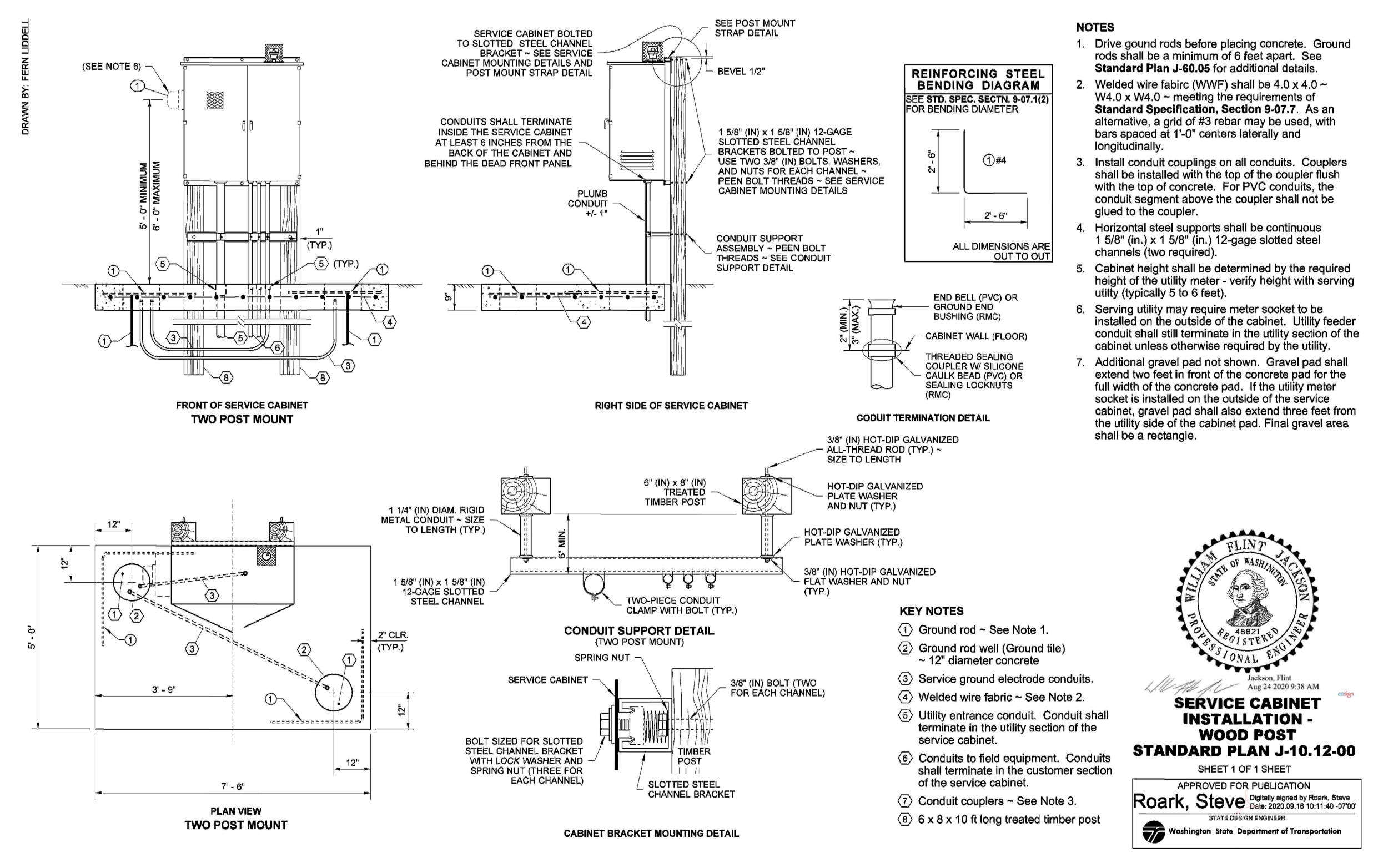
AS NOTED

PARKS FILE#



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



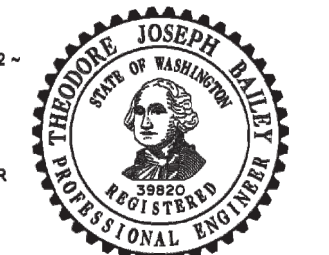
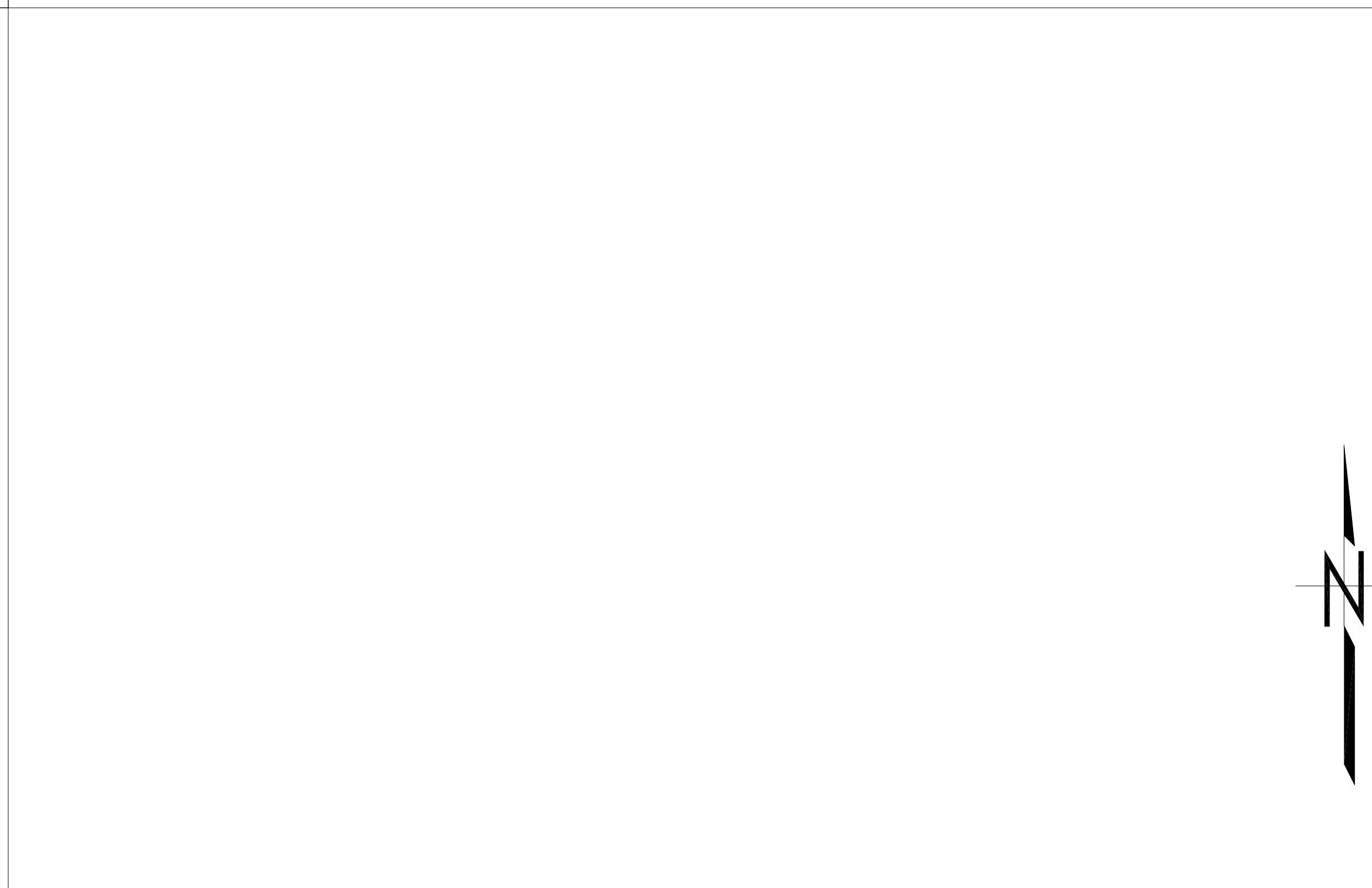
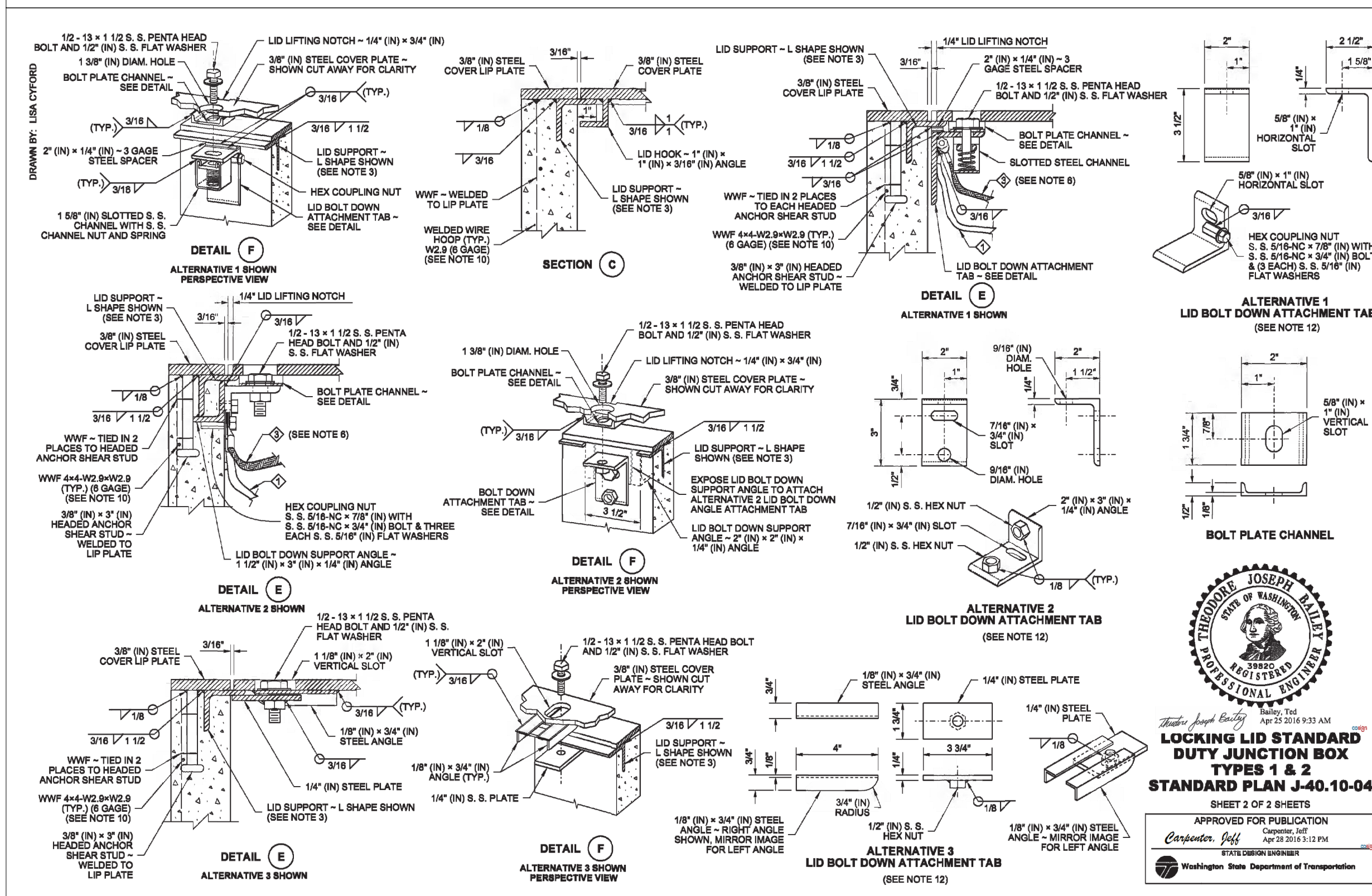
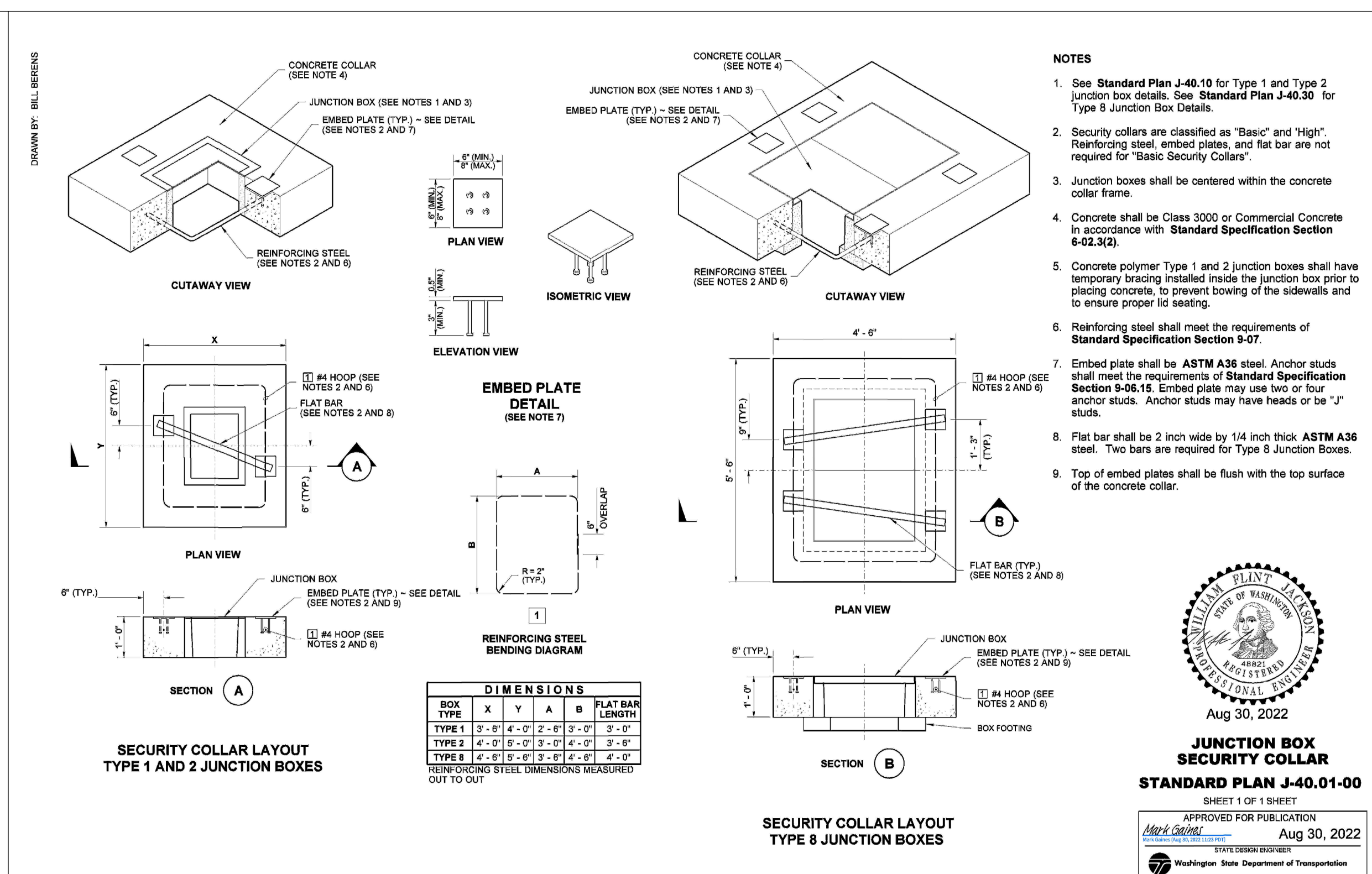
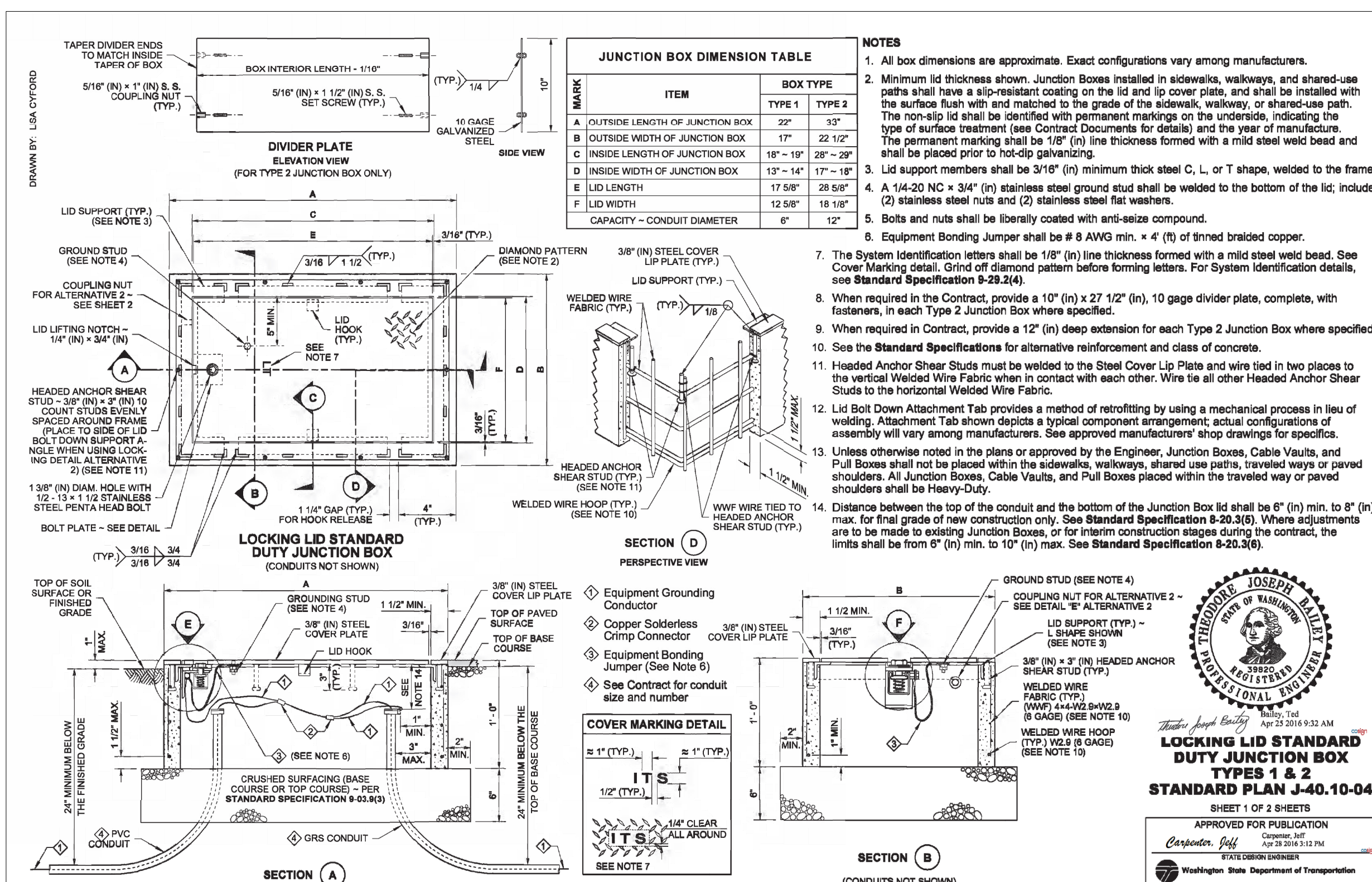
REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
info@crossengineers.com

Call 811
two business days
before you dig

SHEET ___ OF XX



LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2 STANDARD PLAN J-40.10-04

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
 Conductor Kelly
 August 30, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

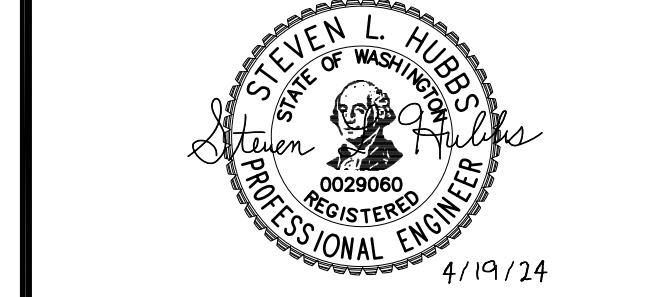


JUNCTION BOX SECURITY COLLAR STANDARD PLAN J-40.10-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
 Mark Colman
 August 30, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

ACTION	BY	DATE
DESIGNED	SJK	4/19/24
DRAWN	JAE	4/19/24
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

ROUNDABOUT ELECTRICAL STREET LIGHTING DETAILS ESL3

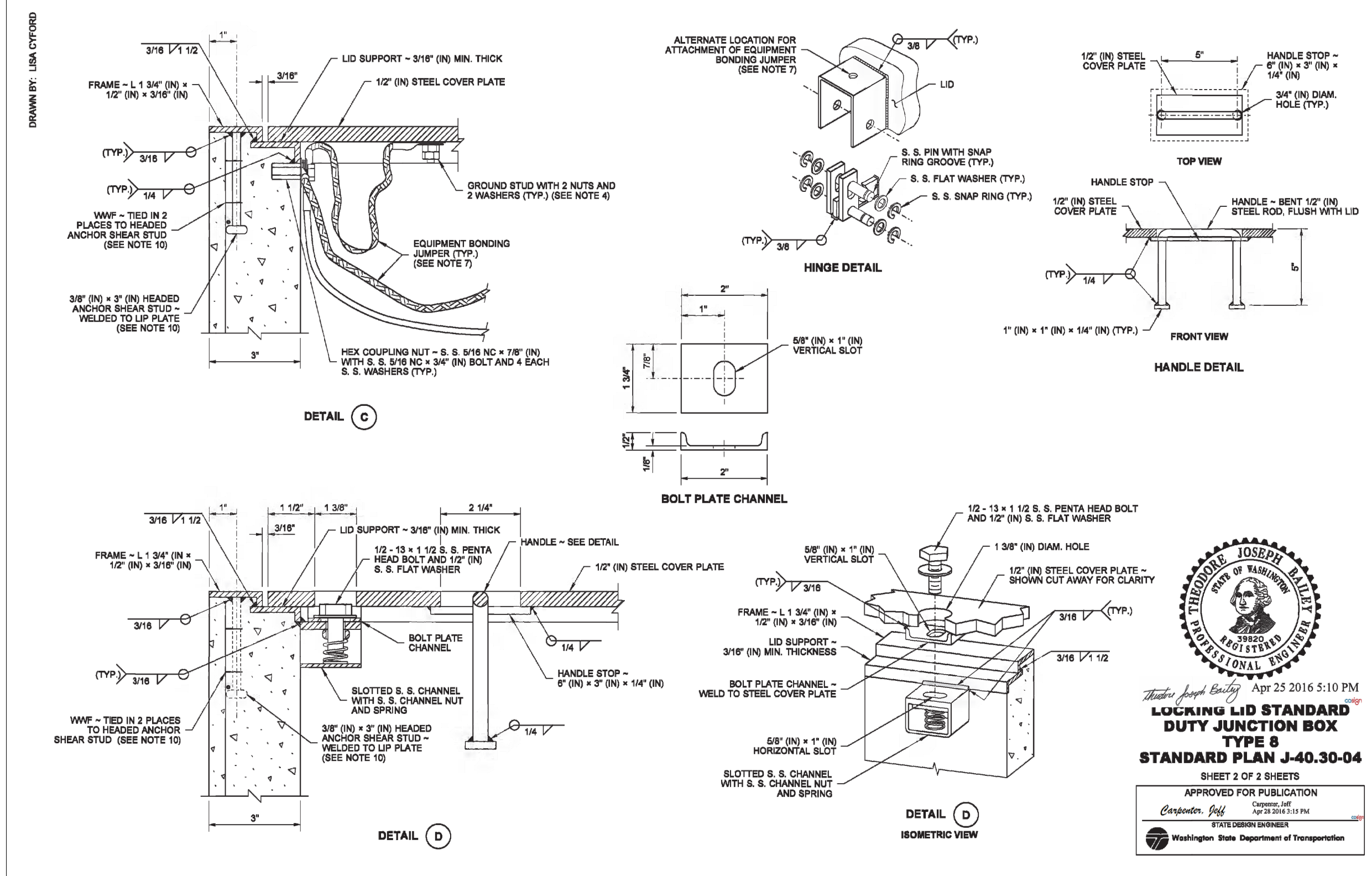
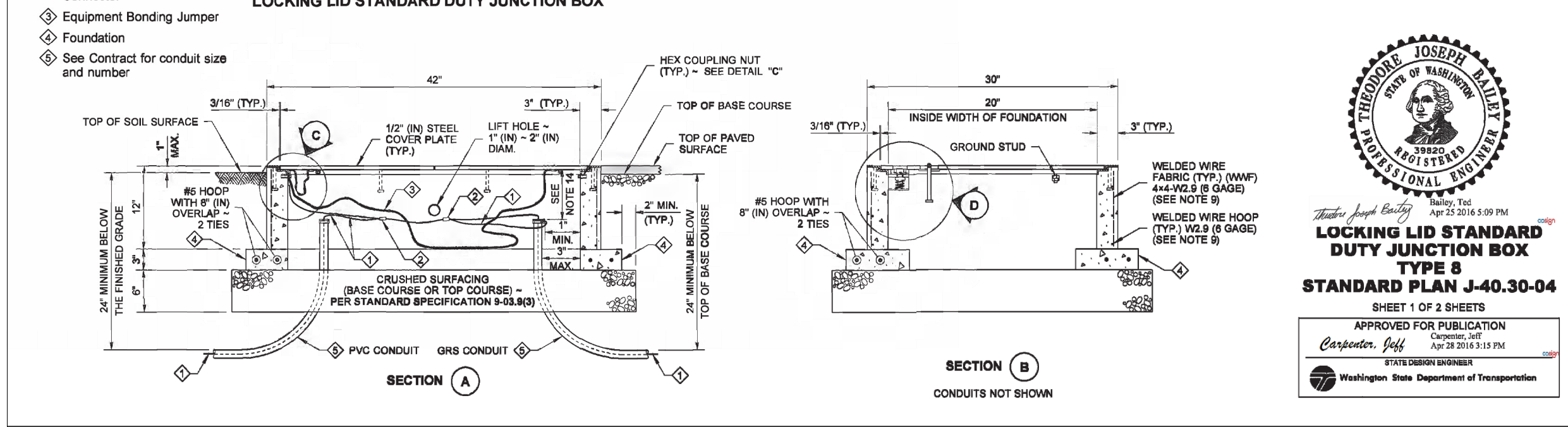
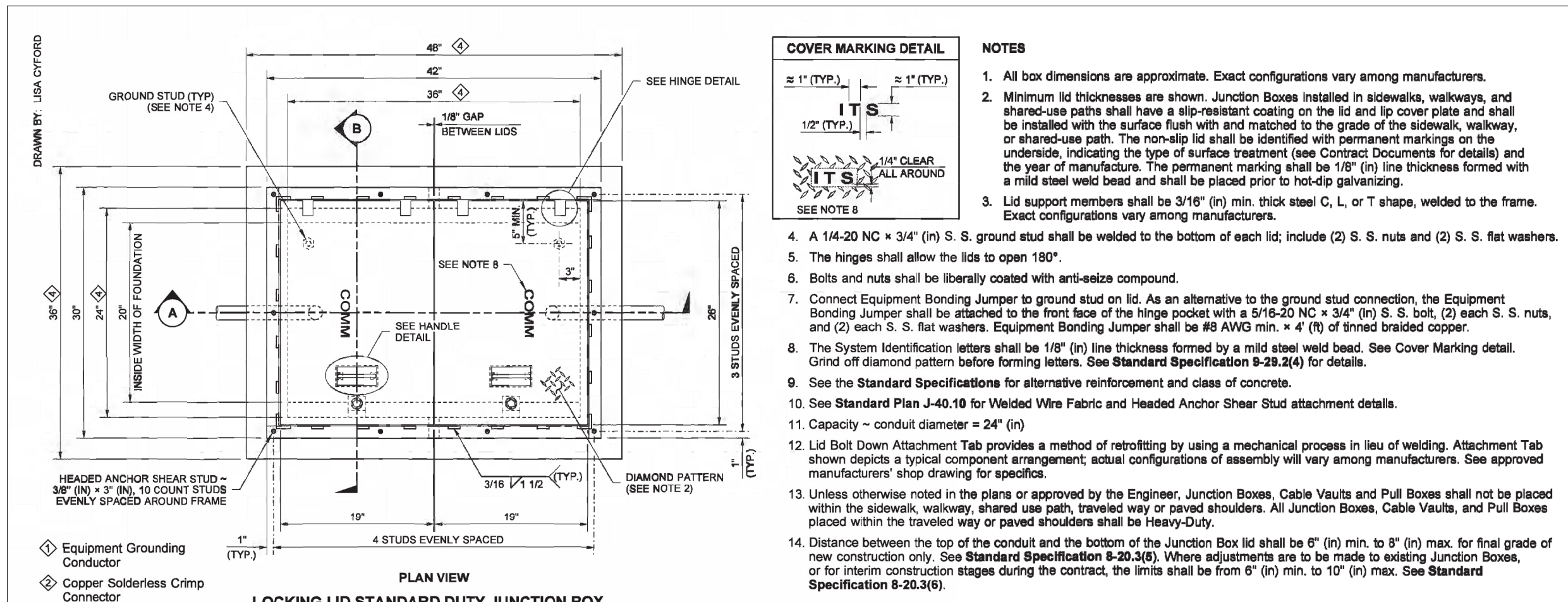
SCALE AS NOTED

PARKS FILE#

CROSS ENGINEERS, INC
 923 MLK Jr. Way
 Tacoma, WA 98405
 info@crossengineers.com

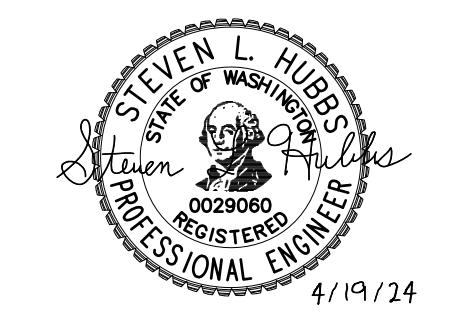
811 Call 811
 two business days before you dig

SHEET ___ OF XX



CAD NO.	
DATE	
APP.	
INT.	
REVISIONS	
NO.	

ACTION	BY	DATE
DESIGNED	SJK	4/19/24
DRAWN	JAE	4/19/24
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

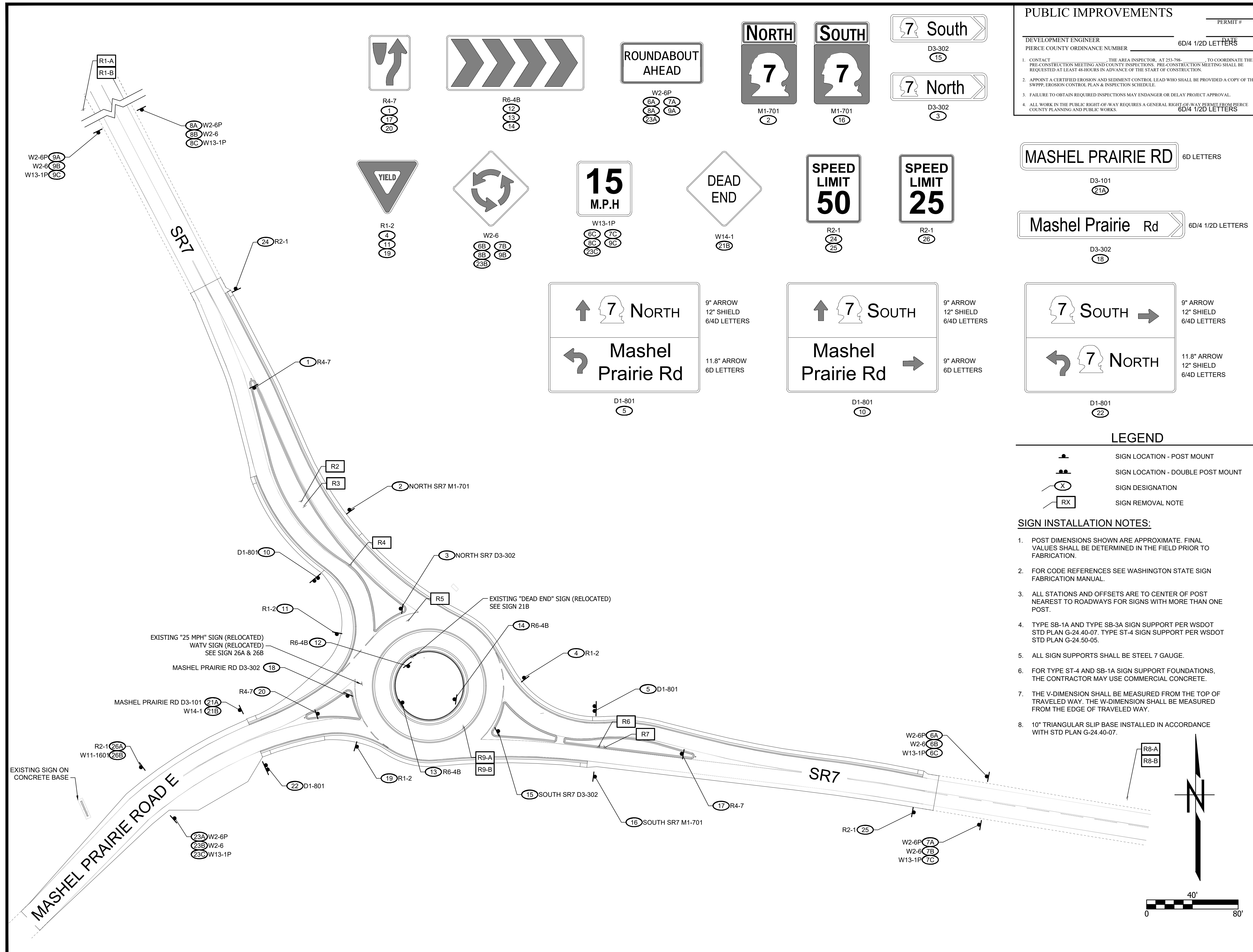
PHASE 3C - ROUNDABOUT

ROUNDABOUT ELECTRICAL STREET LIGHTING DETAILS ESL4

SCALE AS NOTED

PARKS FILE#





PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.

3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS. _____ 6D/4 1/2D LETTERS

MASHEL PRAIRIE RD 6D LETTERS
 D3-101 (21A)

Mashel Prairie Rd 6D/4 1/2D LETTERS
 D3-302 (1B)

7 South 9" ARROW 12" SHIELD 6/4D LETTERS
 D3-302 (15)

7 North 9" ARROW 12" SHIELD 6/4D LETTERS
 D3-302 (3)

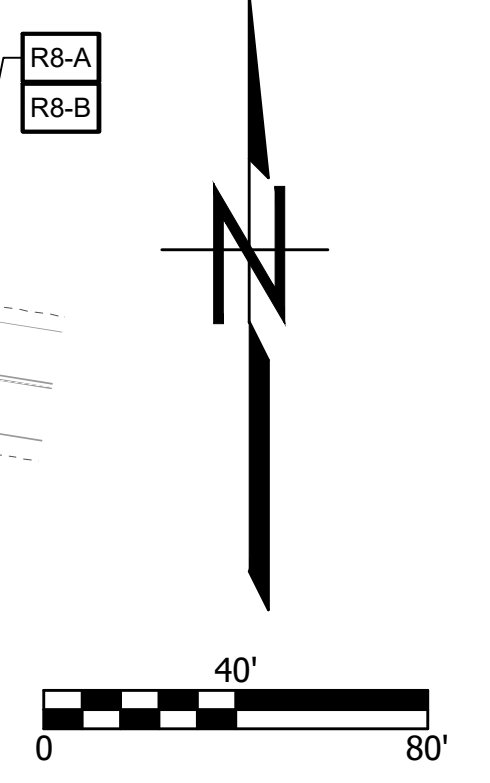
7 South 11.8" ARROW 12" SHIELD 6/4D LETTERS
 D1-801 (22)

LEGEND

- SIGN LOCATION - POST MOUNT
- SIGN LOCATION - DOUBLE POST MOUNT
- SIGN DESIGNATION
- SIGN REMOVAL NOTE

SIGN INSTALLATION NOTES:

- POST DIMENSIONS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
- FOR CODE REFERENCES SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
- ALL STATIONS AND OFFSETS ARE TO CENTER OF POST NEAREST TO ROADWAYS FOR SIGNS WITH MORE THAN ONE POST.
- TYPE SB-1A AND TYPE SB-3A SIGN SUPPORT PER WSDOT STD PLAN G-24.40-07. TYPE ST-4 SIGN SUPPORT PER WSDOT STD PLAN G-24.50-05.
- ALL SIGN SUPPORTS SHALL BE STEEL 7 GAUGE.
- FOR TYPE ST-4 AND SB-1A SIGN SUPPORT FOUNDATIONS, THE CONTRACTOR MAY USE COMMERCIAL CONCRETE.
- THE V-DIMENSION SHALL BE MEASURED FROM THE TOP OF TRAVELED WAY. THE W-DIMENSION SHALL BE MEASURED FROM THE EDGE OF TRAVELED WAY.
- 10" TRIANGULAR SLIP BASE INSTALLED IN ACCORDANCE WITH STD PLAN G-24.40-07.



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

SIGNING PLAN

SN1

SCALE
 1" = 40'

PARKS FILE#

PUBLIC IMPROVEMENTS

PERMIT # _____ DATE _____
 DEVELOPMENT ENGINEER _____
 PIERCE COUNTY ORDINANCE NUMBER _____
 1. CONTACT _____, THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
 2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
 3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
 4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE
APP.
INT.
NO.

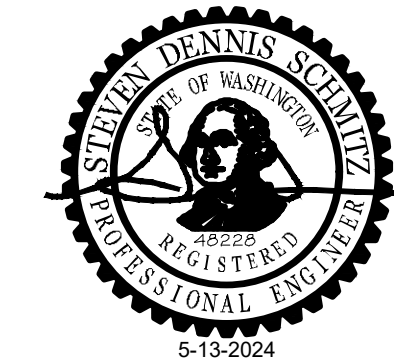
SIGN SPECIFICATIONS

SIGN #	SIGN CODE	SIGN DESCRIPTION	LOCATION (STA, OFF)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE (IN x IN)	SUPPORT TYPE	POST LENGTH (FT)		CLEARANCE (FT)		REMARKS
				X (IN)	Y (IN)						H1	H2	V	W	
1	R4-7	KEEP RIGHT SYMBOL	18+65.64, 1.83' LT	24	30	IV	-	STEEL TELSPAR	2.5 x 2.5	SB-3A	9.5	-	7	-	CENTERED ON SPLITTER ISLAND
2	M1-701	SR 7 NORTH	20+05.90, 29.39' LT	24	36	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	7	10	
3	D3-302	SR 7 NORTH	21+00.94, 5.37' LT	42	12	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	SB-3A	8	-	7	-	SIGN SHALL HAVE 2' CLEARANCE TO FACE OF CURB
4	R1-2	YIELD	22+48.90, 44.61' LT	36	36	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	7	9	
5	D1-801	EXIT DESIGNATIONS	23+23.10, 28.70' LT	66	48	IV	*	STEEL TELSPAR	2.5 x 2.5	SB-1A	11	12	7	11	MOUNT ON DOUBLE POST
6A	W2-6P	ROUNDAABOUT AHEAD	26+65.00, 21.00' LT	36	18	IV	STANDARD	STEEL SOLID	3 x 3	SB-1A (SEE NOTE 8)	12.5	-	-	10	MOUNT BELOW SIGN 6A
6B	W2-6	ROUNDAABOUT SYMBOL		48	48	IV	-						7		MOUNT BELOW SIGN 6B
6C	W13-1P	ADVISORY SPEED (15 MPH)		24	24	IV	STANDARD						-		-
7A	W2-6P	ROUNDAABOUT AHEAD	26+65.00, 21.50' RT	36	18	IV	STANDARD	STEEL SOLID	3 x 3	SB-1A (SEE NOTE 8)	12.5	-	-	10	MOUNT BELOW SIGN 7A
7B	W2-6	ROUNDAABOUT SYMBOL		48	48	IV	-						7		MOUNT BELOW SIGN 7B
7C	W13-1P	ADVISORY SPEED (15 MPH)		24	24	IV	STANDARD						-		-
8A	W2-6P	ROUNDAABOUT AHEAD	16+05.00, 22.00' LT	36	18	IV	STANDARD	STEEL SOLID	3 x 3	SB-1A (SEE NOTE 8)	12.5	-	-	10	MOUNT BELOW SIGN 8A
8B	W2-6	ROUNDAABOUT SYMBOL		48	48	IV	-						7		MOUNT BELOW SIGN 8B
8C	W13-1P	ADVISORY SPEED (15 MPH)		24	24	IV	STANDARD						-		-
9A	W2-6P	ROUNDAABOUT AHEAD	16+05.00, 21.00' RT	36	18	IV	STANDARD	STEEL SOLID	3 x 3	SB-1A (SEE NOTE 8)	12.5	-	-	10	MOUNT BELOW SIGN 9A
9B	W2-6	ROUNDAABOUT SYMBOL		48	48	IV	-						7		MOUNT BELOW SIGN 9B
9C	W13-1P	ADVISORY SPEED (15 MPH)		24	24	IV	STANDARD						-		-
10	D1-801	EXIT DESIGNATIONS	20+32.37, 30.57' RT	66	48	IV	*	STEEL TELSPAR	2.5 x 2.5	SB-1A	11	12	7	11	MOUNT ON DOUBLE POST
11	R1-2	YIELD	20+84.07, 52.90' RT	36	36	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	7	16	
12	R6-4B	4 CHEVRONS	21+49.36, 12.08' RT	60	24	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	7	-	5	-	EDGE OF SIGN SHALL HAVE 2' CLEARANCE TO BACK OF CURB
13	R6-4B	4 CHEVRONS	65+37.60, 8.52' RT	60	24	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	7	-	5	-	EDGE OF SIGN SHALL HAVE 2' CLEARANCE TO BACK OF CURB
14	R6-4B	4 CHEVRONS	21+97.10, 2.02' LT	60	24	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	7	-	5	-	EDGE OF SIGN SHALL HAVE 2' CLEARANCE TO BACK OF CURB
15	D3-302	SR 7 SOUTH	22+43.12, 6.88' RT	42	12	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	SB-3A	8	-	7	-	SIGN SHALL HAVE 2' CLEARANCE TO FACE OF CURB
16	M1-701	SR 7 SOUTH	23+31.16, 28.19' RT	24	36	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	7	13	
17	R4-7	KEEP RIGHT SYMBOL	24+03.64, 1.81' LT	24	30	IV	-	STEEL TELSPAR	2.5 x 2.5	SB-3A	9.5	-	7	-	CENTERED ON SPLITTER ISLAND
18	D3-302	STREET NAME SIGN (MASH EL PRAIRIE RD)	64+93.28, 9.53' LT	72	12	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	SB-3A	8	-	7	-	SIGN SHALL HAVE 2' CLEARANCE TO FACE OF CURB
19	R1-2	YIELD	64+89.91, 35.54' RT	36	36	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	7	10	
20	R4-7	KEEP RIGHT SYMBOL	64+64.15, 0.88' LT	24	30	IV	-	STEEL TELSPAR	2.5 x 2.5	SB-3A	9.5	-	7	-	CENTERED ON SPLITTER ISLAND
21A	D3-101	STREET NAME SIGN (MASH EL PRAIRIE RD)	64+02.87, 26.34' LT	72	12	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	11	-	-	15	SEE SIGN 21B FOR SECONDARY SIGN
22	D1-801	EXIT DESIGNATIONS	64+04.44, 26.96' RT	66	48	IV	*	STEEL TELSPAR	2.5 x 2.5	SB-1A	11	12	7	13.5	MOUNT ON DOUBLE POST
23A	W2-6P	ROUNDAABOUT AHEAD	63+05.12, 25.25' RT	36	18	IV	STANDARD	STEEL SOLID	3 x 3	SB-1A (SEE NOTE 8)	12	-	-	13.5	MOUNT BELOW SIGN 23A
23B	W2-6	ROUNDAABOUT SYMBOL		36	36	IV	-						7		MOUNT BELOW SIGN 23B
23C	W13-1P	ADVISORY SPEED (15 MPH)		24	24	IV	STANDARD						-		-
24	R2-1	SPEED LIMIT (50 MPH)	17+81.00, 22.00' LT	24	30	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	9.5	-	7	10	
25	R2-1	SPEED LIMIT (50 MPH)	26+12.00, 20.20' LT	24	30	IV	STANDARD	STEEL TELSPAR	2.5 x 2.5	ST-4	9.5	-	7	10	

* 6 INCH UPPER CASE AND 4 INCH LOWER CASE SERIES D LETTING USED

SIGN INSTALLATION NOTES:

- POST DIMENSIONS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
- FOR CODE REFERENCES SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
- ALL STATIONS AND OFFSETS ARE TO CENTER OF POST NEAREST TO ROADWAYS FOR SIGNS WITH MORE THAN ONE POST.
- TYPE SB-1A AND TYPE SB-3A SIGN SUPPORT PER WSDOT STD PLAN G-24.40-07. TYPE ST-4 SIGN SUPPORT PER WSDOT STD PLAN G-24.50-05.
- ALL SIGN SUPPORTS SHALL BE STEEL 7 GAUGE.
- FOR TYPE ST-4 AND SB-1A SIGN SUPPORT FOUNDATIONS, THE CONTRACTOR MAY USE COMMERCIAL CONCRETE.
- THE V-DIMENSION SHALL BE MEASURED FROM THE TOP OF TRAVELED WAY. THE W-DIMENSION SHALL BE MEASURED FROM THE EDGE OF TRAVELED WAY.
- 10" TRIANGULAR SLIP BASE INSTALLED IN ACCORDANCE WITH STD PLAN G-24.40-07.



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT

SIGN SPECIFICATIONS

SN2

SCALE

1" = 40'

PARKS FILE#

SIGN RELOCATION SPECIFICATIONS

SIGN #	SIGN CODE	SIGN DESCRIPTION	EXISTING LOCATION (STA, OFF)	PROPOSED LOCATION (STA, OFF)	SIGN SIZE		POST MATERIAL	POST SIZE (IN x IN)	SUPPORT TYPE	POST LENGTH (FT)		CLEARANCE (FT)		REMARKS
					X (IN)	Y (IN)				H1	H2	V	W	
21B	W14-1	DEAD END	21+42.99, 6.64' RT	64+02.87, 26.34' LT	24	24	STEEL TELSPAR	2.5 x 2.5	ST-4	11	-	7	15	MOUNTED BELOW SIGN 21A
26A	R2-1	SPEED LIMIT (25 MPH)	21+49.00, 55.84' RT	63+10.00, 27.85' LT	18	24	STEEL TELSPAR	2.5 x 2.5	ST-4	10	-	-	10	RELOCATE SIGN ON NEW POST
26B	W11-1601	EXISTING WATV SIGN			18	10						7		MOUNT BELOW SIGN 26A

SIGN REMOVAL SPECIFICATIONS

SIGN #	SIGN CODE	SIGN DESCRIPTION	EXISTING LOCATION	SIGN SIZE		POST MATERIAL	POST SIZE (IN x IN)	REMARKS
				X (IN)	Y (IN)			
R1-A	W1-2L	ADVANCE CURVE	SR7 MILE POST: ±29.47	36	36	STEEL	2.5 x 2.5	MOUNTED BELOW R1-A
R1-B	W13-1	35 MPH ADVISORY SPEED		18	24			
R2	W1-8	CHEVRON SIGN	19+73.50, 0.53' RT	18	24	STEEL	2.5 x 2.5	
R3	W1-8	CHEVRON SIGN	19+78.39, 0.40' RT	18	24	STEEL	2.5 x 2.5	
R4	W1-8	CHEVRON SIGN	20+43.63, 2.00' RT	18	24	STEEL	2.5 x 2.5	
R5	W1-8	CHEVRON SIGN	21+12.90, 5.24' LT	18	24	STEEL	2.5 x 2.5	
R6	W1-8	CHEVRON SIGN	23+31.28, 1.52 RT	18	24	STEEL	2.5 x 2.5	
R7	W1-8	CHEVRON SIGN	23+36.14, 1.47' RT	18	24	WOOD	3 x 3	
R8-A	W1-2L	ADVANCE CURVE	SR7 MILE POST: ±29.20	36	36	STEEL	2.5 x 2.5	MOUNTED BELOW R8-A
R8-B	W13-1	40 MPH ADVISORY SPEED		18	24			
R9-A	D3-101	STREET NAME (MASH EL PRAIRIE RD)	22+14.98, 15.63' RT	72	12	STEEL	2.5 x 2.5	MOUNTED BELOW R9-A
R9-B	R1-1	STOP SIGN		30	30			

SIGN REMOVAL NOTE:

- REMOVE SIGNS AND POST FOUNDATIONS IN THEIR ENTIRETY IN ACCORDANCE WITH STANDARD SPECIFICATION 8-21.3(4).
- EXISTING SIGN LOCATIONS ARE APPROXIMATE ONLY.

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

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2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.

3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	NO.
	REVISIONS

ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



NISQUALLY STATE PARK

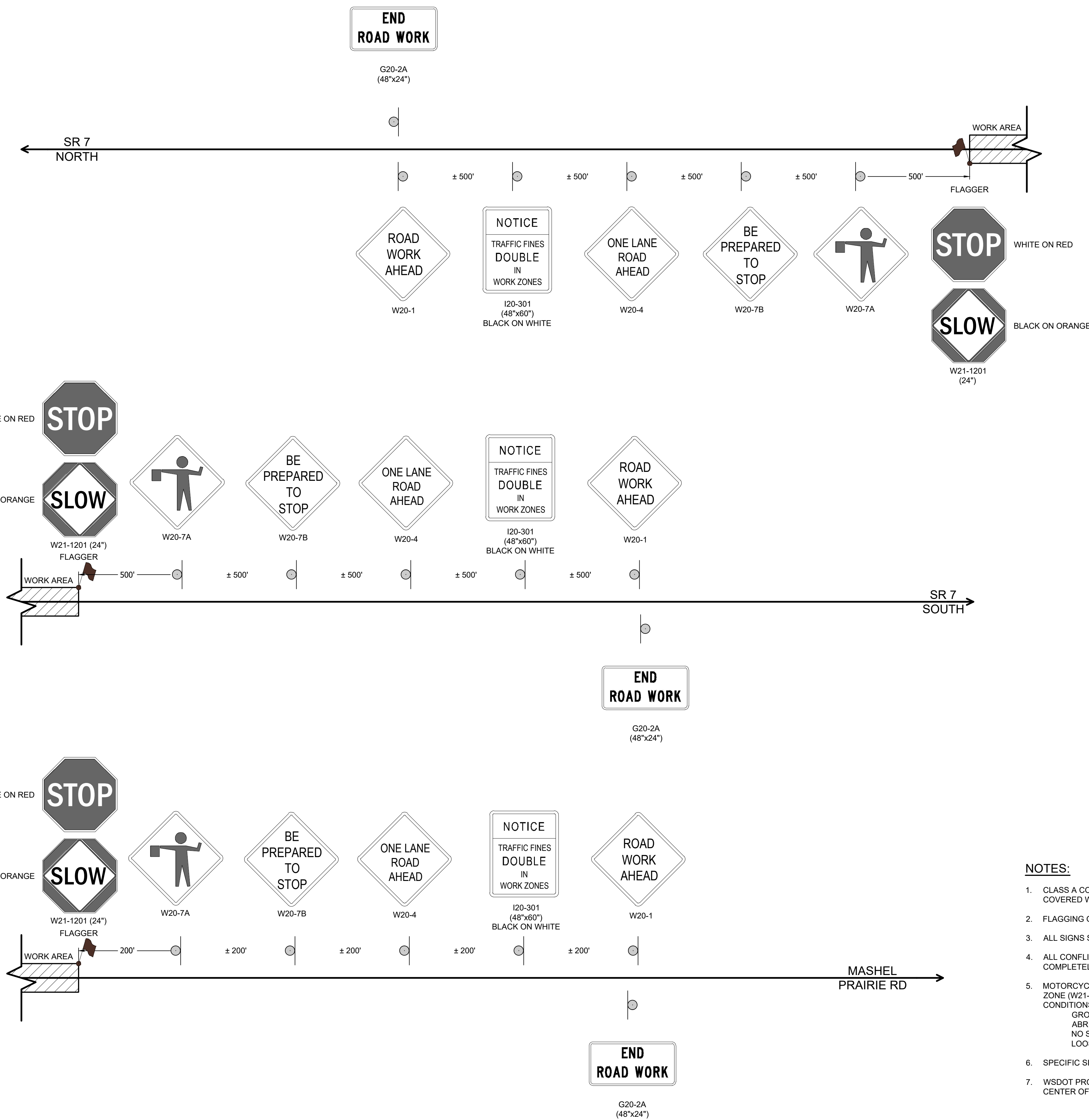
PHASE 3C - ROUNDABOUT

CLASS A SIGNING

TC1

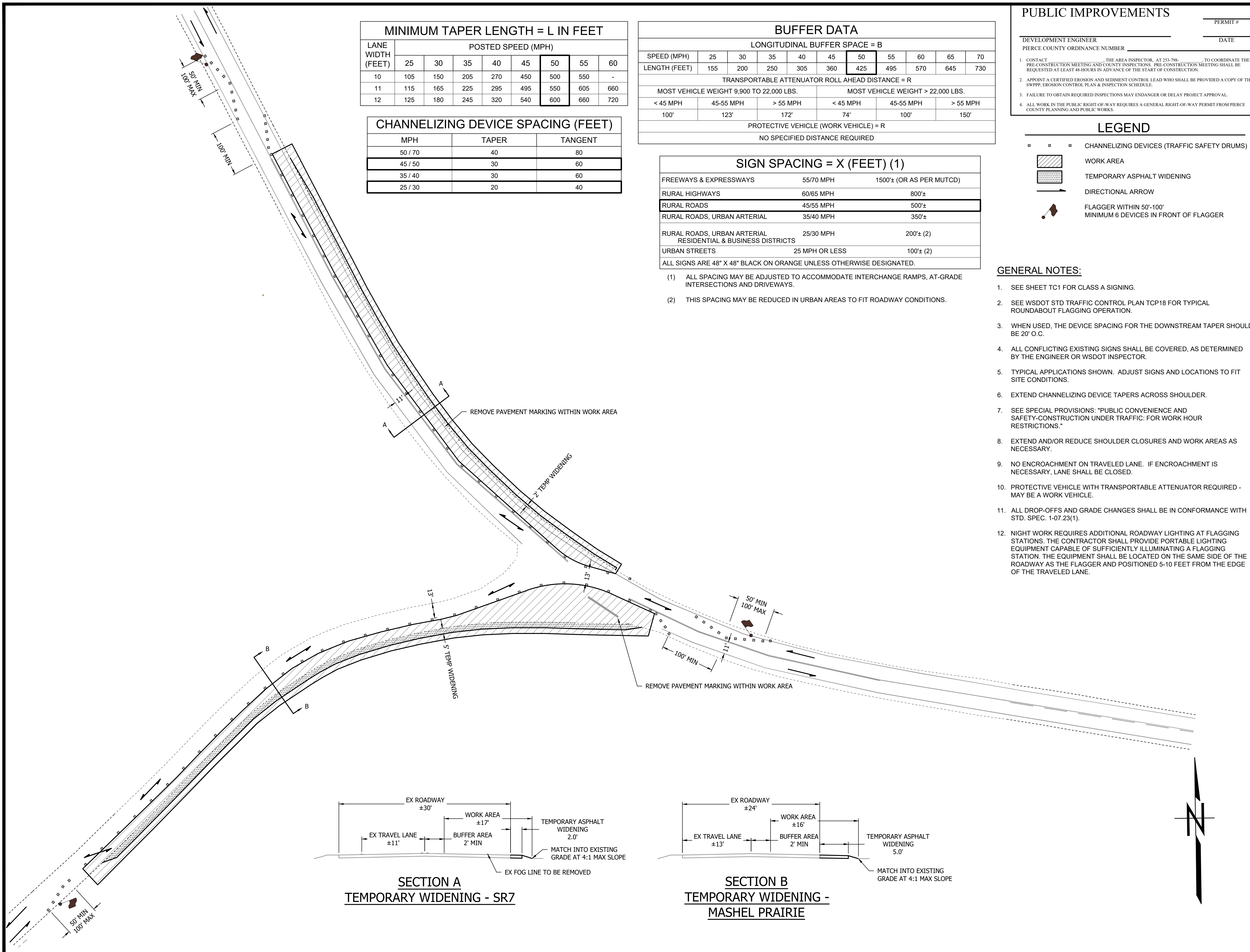
SCALE
NTS

PARKS FILE#



NOTES:

- CLASS A CONSTRUCTION SIGNING INSTALLATION PER WSDOT STD PLAN K-80.10. SIGNS SHALL BE COVERED WHEN NOT APPLICABLE PER WSDOT STD SPEC 8-21.3(3).
- FLAGGING OPERATION SIGNS (W20-7A) SHALL BE COVERED DURING NON-WORKING HOURS.
- ALL SIGNS SHALL BE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE NOTED.
- ALL CONFLICTING EXISTING SIGNS SHALL BE REMOVED PER WSDOT STD SPEC 8-21.3(4) OR COMPLETELY COVERED PER WSDOT STD SPEC 8-21.3(3).
- MOTORCYCLES USE EXTREME CAUTION SIGNS SHALL BE INSTALLED THROUGHOUT THE WORK ZONE (W21-1701) AND FOR EACH SIGNIFICANT INTERSECTION WHEN THE FOLLOWING ROADWAYS CONDITIONS EXIST:
 GROOVED PAVEMENT (W8-2001)
 ABRUPT LANE EDGE (W21-801)
 NO SHOULDER (W8-1801)
 LOOSE GRAVEL (W8-7)
- SPECIFIC SIGNS FOR EACH OF THE CONDITIONS NOTED SHALL ALSO BE INSTALLED AS REQUIRED.
- WSDOT PROJECT INSPECTOR IS RESPONSIBLE FOR NOTIFYING THE TRAFFIC MANAGEMENT CENTER OF TRAFFIC CONTROL AND ANY COORDINATION WITH MAINTENANCE IF NEEDED.



LANE WIDTH (FEET)	POSTED SPEED (MPH)							
	25	30	35	40	45	50	55	60
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

CHANNELIZING DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50 / 70	40	80
45 / 50	30	60
35 / 40	30	60
25 / 30	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										
MOST VEHICLE WEIGHT 9,900 TO 22,000 LBS.					MOST 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 (FEET) (1)		
FREEWAYS & EXPRESSWAYS	55/70 MPH	1500'± (OR AS PER MUTCD)
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	45/55 MPH	500'±
RURAL ROADS, URBAN ARTERIAL	35/40 MPH	350'±
RURAL ROADS, URBAN ARTERIAL RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)
ALL SIGNS ARE 48" X 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.		

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

PUBLIC IMPROVEMENTS

DEVELOPMENT ENGINEER _____ PERMIT # _____
 PIERCE COUNTY ORDINANCE NUMBER _____ DATE _____

1. CONTACT _____ THE AREA INSPECTOR, AT 253-798-_____, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.

3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

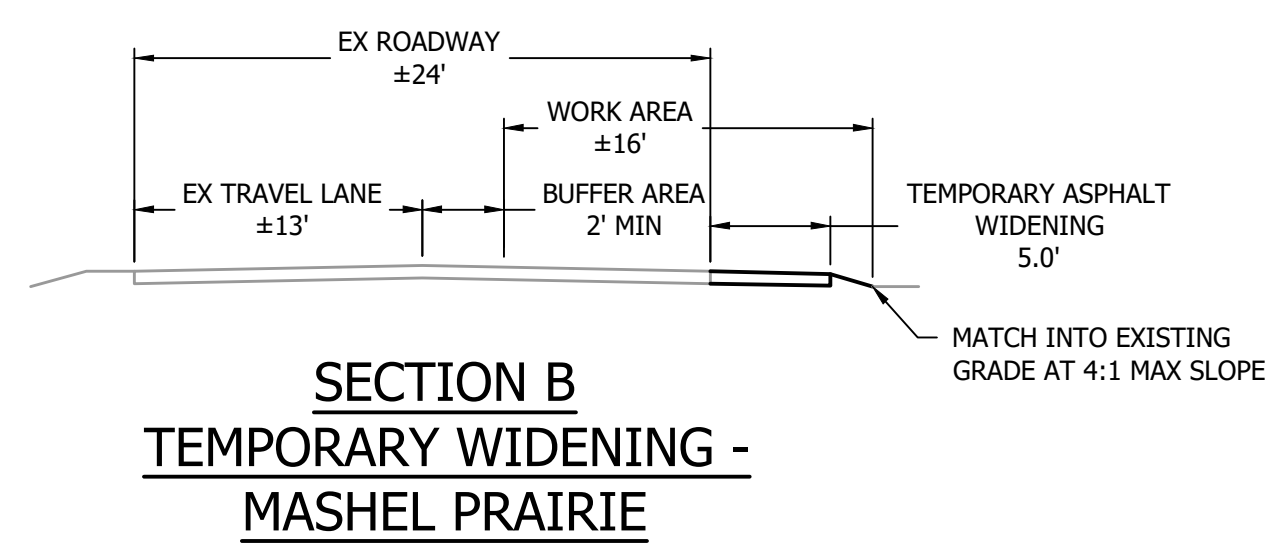
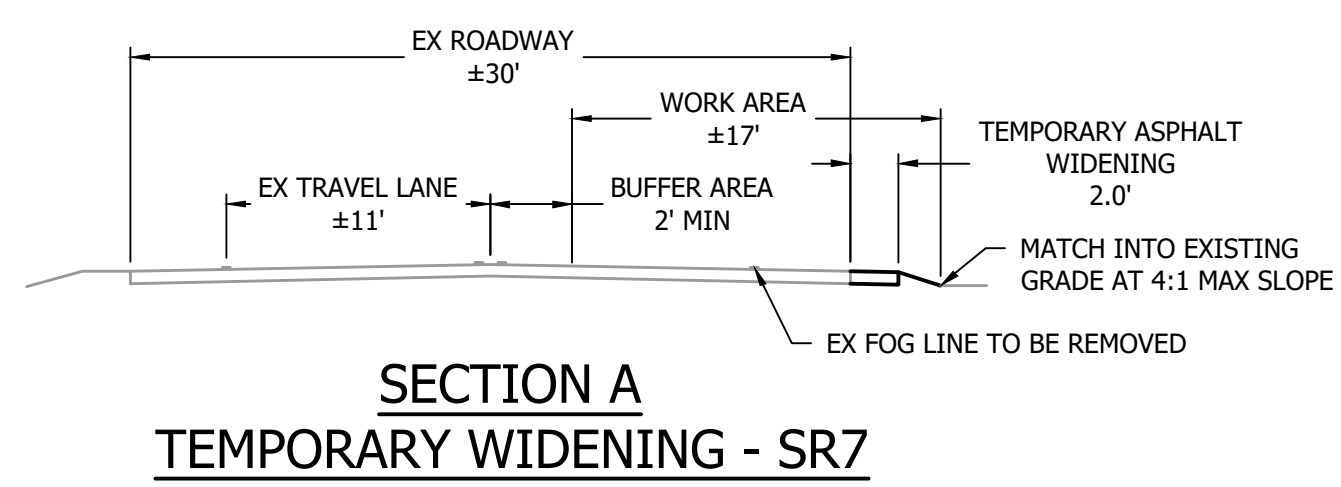
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

LEGEND

- CHANNELIZING DEVICES (TRAFFIC SAFETY DRUMS)
- ▨ WORK AREA
- ▩ TEMPORARY ASPHALT WIDENING
- DIRECTIONAL ARROW
- 🚧 FLAGGER WITHIN 50'-100'
MINIMUM 6 DEVICES IN FRONT OF FLAGGER

GENERAL NOTES:

1. SEE SHEET TC1 FOR CLASS A SIGNING.
2. SEE WSDOT STD TRAFFIC CONTROL PLAN TCP18 FOR TYPICAL ROUNDABOUT FLAGGING OPERATION.
3. WHEN USED, THE DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
4. ALL CONFLICTING EXISTING SIGNS SHALL BE COVERED, AS DETERMINED BY THE ENGINEER OR WSDOT INSPECTOR.
5. TYPICAL APPLICATIONS SHOWN. ADJUST SIGNS AND LOCATIONS TO FIT SITE CONDITIONS.
6. EXTEND CHANNELIZING DEVICE TAPERS ACROSS SHOULDER.
7. SEE SPECIAL PROVISIONS: "PUBLIC CONVENIENCE AND SAFETY-CONSTRUCTION UNDER TRAFFIC: FOR WORK HOUR RESTRICTIONS."
8. EXTEND AND/OR REDUCE SHOULDER CLOSURES AND WORK AREAS AS NECESSARY.
9. NO ENCROACHMENT ON TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
10. PROTECTIVE VEHICLE WITH TRANSPORTABLE ATTENUATOR REQUIRED - MAY BE A WORK VEHICLE.
11. ALL DROP-OFFS AND GRADE CHANGES SHALL BE IN CONFORMANCE WITH STD. SPEC. 1-07.23(1).
12. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. THE CONTRACTOR SHALL PROVIDE PORTABLE LIGHTING EQUIPMENT CAPABLE OF SUFFICIENTLY ILLUMINATING A FLAGGING STATION. THE EQUIPMENT SHALL BE LOCATED ON THE SAME SIDE OF THE ROADWAY AS THE FLAGGER AND POSITIONED 5-10 FEET FROM THE EDGE OF THE TRAVELED LANE.



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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DESIGNED	JM,SS	02/23/24
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REGISTERED STAMP

**WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION**



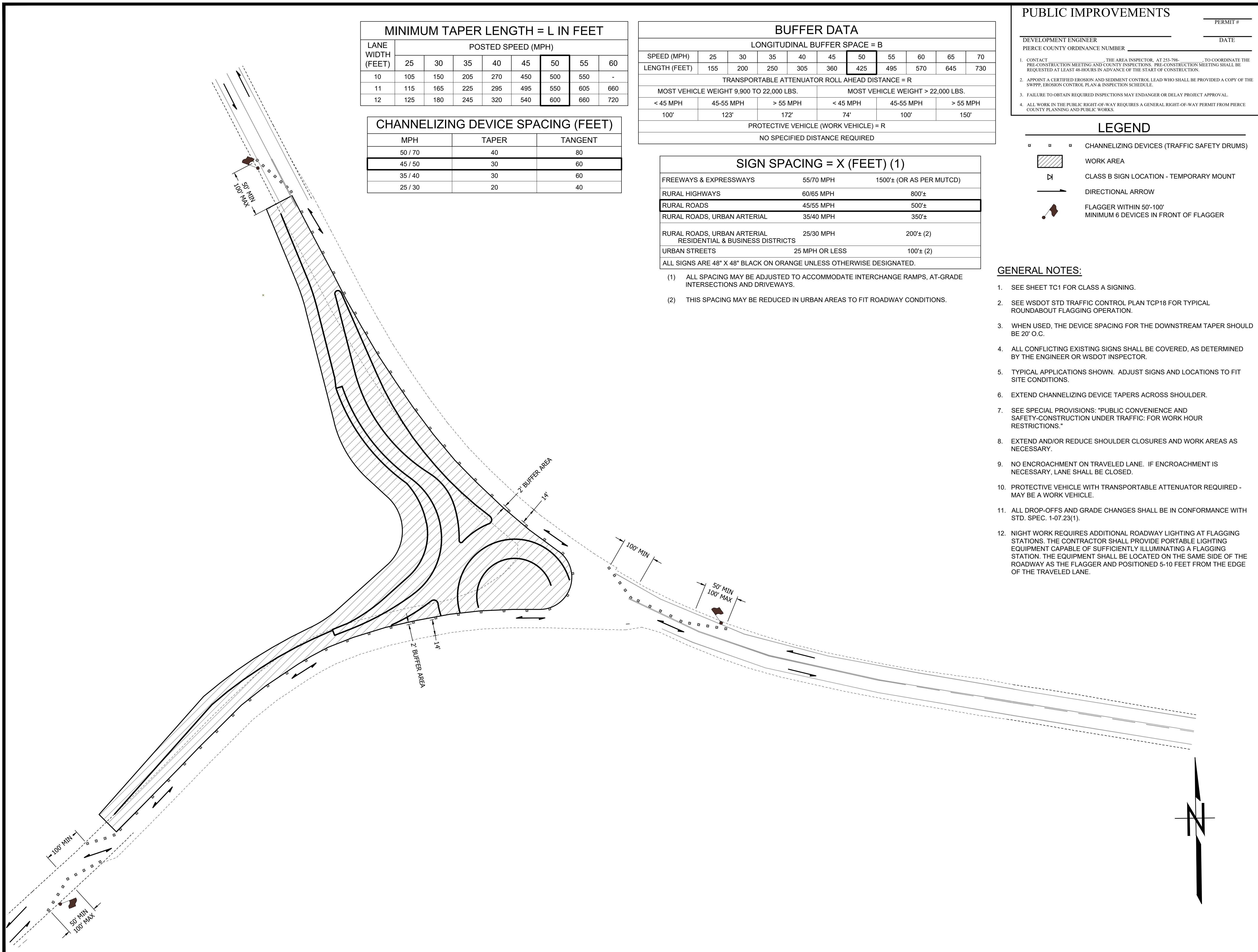
**NISQUALLY STATE
PARK**

**PHASE 3C -
ROUNDABOUT
TRAFFIC CONTROL
PLAN MOT: STAGE 1**

TC2

SCALE
NTS

PARKS FILE#



MINIMUM TAPER LENGTH = L IN FEET

LANE WIDTH (FEET)	POSTED SPEED (MPH)							
	25	30	35	40	45	50	55	60
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

CHANNELIZING DEVICE SPACING (FEET)

MPH	TAPER	TANGENT
50 / 70	40	80
45 / 50	30	60
35 / 40	30	60
25 / 30	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

MOST VEHICLE WEIGHT 9,900 TO 22,000 LBS.		MOST VEHICLE WEIGHT > 22,000 LBS.	
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH
100'	123'	172'	74'
		100'	
PROTECTIVE VEHICLE (WORK VEHICLE) = R			
NO SPECIFIED DISTANCE REQUIRED			

SIGN SPACING = X (FEET) (1)

FREEWAYS & EXPRESSWAYS	55/70 MPH	1500'± (OR AS PER MUTCD)
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	45/55 MPH	500'±
RURAL ROADS, URBAN ARTERIAL	35/40 MPH	350'±
RURAL ROADS, URBAN ARTERIAL RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

ALL SIGNS ARE 48" X 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

- (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.

PUBLIC IMPROVEMENTS

PERMIT # _____ DATE _____

DEVELOPMENT ENGINEER _____

PIERCE COUNTY ORDINANCE NUMBER _____

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- ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

- LEGEND**
- CHANNELIZING DEVICES (TRAFFIC SAFETY DRUMS)
 - ▨ WORK AREA
 - ⊠ CLASS B SIGN LOCATION - TEMPORARY MOUNT
 - DIRECTIONAL ARROW
 - 🚧 FLAGGER WITHIN 50'-100'
MINIMUM 6 DEVICES IN FRONT OF FLAGGER

- GENERAL NOTES:**
- SEE SHEET TC1 FOR CLASS A SIGNING.
 - SEE WSDOT STD TRAFFIC CONTROL PLAN TCP18 FOR TYPICAL ROUNDABOUT FLAGGING OPERATION.
 - WHEN USED, THE DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
 - ALL CONFLICTING EXISTING SIGNS SHALL BE COVERED, AS DETERMINED BY THE ENGINEER OR WSDOT INSPECTOR.
 - TYPICAL APPLICATIONS SHOWN. ADJUST SIGNS AND LOCATIONS TO FIT SITE CONDITIONS.
 - EXTEND CHANNELIZING DEVICE TAPERS ACROSS SHOULDER.
 - SEE SPECIAL PROVISIONS: "PUBLIC CONVENIENCE AND SAFETY-CONSTRUCTION UNDER TRAFFIC: FOR WORK HOUR RESTRICTIONS."
 - EXTEND AND/OR REDUCE SHOULDER CLOSURES AND WORK AREAS AS NECESSARY.
 - NO ENCROACHMENT ON TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
 - PROTECTIVE VEHICLE WITH TRANSPORTABLE ATTENUATOR REQUIRED - MAY BE A WORK VEHICLE.
 - ALL DROP-OFFS AND GRADE CHANGES SHALL BE IN CONFORMANCE WITH STD. SPEC. 1-07.23(1).
 - NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. THE CONTRACTOR SHALL PROVIDE PORTABLE LIGHTING EQUIPMENT CAPABLE OF SUFFICIENTLY ILLUMINATING A FLAGGING STATION. THE EQUIPMENT SHALL BE LOCATED ON THE SAME SIDE OF THE ROADWAY AS THE FLAGGER AND POSITIONED 5-10 FEET FROM THE EDGE OF THE TRAVELED LANE.

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ACTION	BY	DATE
DESIGNED	JM,SS	02/23/24
DRAWN	NA	02/23/24
CHECKED (FIELD)	MTM	02/23/24



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



NISQUALLY STATE
PARK

PHASE 3C -
ROUNDABOUT
TRAFFIC CONTROL
PLAN MOT: STAGE 2

TC3

SCALE
NTS

PARKS FILE#

PUBLIC IMPROVEMENTS

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LEGEND

- ▣ CHANNELIZING DEVICES (TRAFFIC SAFETY DRUMS)
- ▨ WORK AREA
- ⊠ CLASS B SIGN LOCATION - TEMPORARY MOUNT
- ⊞ TEMPORARY MOUNT SIGN - MINIMUM 5' MOUNTING HEIGHT
- DIRECTIONAL ARROW
- 🚧 FLAGGER WITHIN 50'-100' MINIMUM 6 DEVICES IN FRONT OF FLAGGER

GENERAL NOTES:

1. SEE SHEET TC1 FOR CLASS A SIGNING.
2. SEE WSDOT STD TRAFFIC CONTROL PLAN TCP18 FOR TYPICAL ROUNDABOUT FLAGGING OPERATION.
3. WHEN USED, THE DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
4. ALL CONFLICTING EXISTING SIGNS SHALL BE COVERED, AS DETERMINED BY THE ENGINEER OR WSDOT INSPECTOR.
5. TYPICAL APPLICATIONS SHOWN. ADJUST SIGNS AND LOCATIONS TO FIT SITE CONDITIONS.
6. ARROW OVERLAYS AREA 12" x 12" PANELS
7. EXTEND CHANNELIZING DEVICE TAPERS ACROSS SHOULDER.
8. SEE SPECIAL PROVISIONS: "PUBLIC CONVENIENCE AND SAFETY-CONSTRUCTION UNDER TRAFFIC: FOR WORK HOUR RESTRICTIONS."
9. EXTEND AND/OR REDUCE SHOULDER CLOSURES AND WORK AREAS AS NECESSARY.
10. NO ENCROACHMENT ON TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
11. PROTECTIVE VEHICLE WITH TRANSPORTABLE ATTENUATOR REQUIRED - MAY BE A WORK VEHICLE.
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MINIMUM TAPER LENGTH = L IN FEET

LANE WIDTH (FEET)	POSTED SPEED (MPH)							
	25	30	35	40	45	50	55	60
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

CHANNELIZING DEVICE SPACING (FEET)

MPH	TAPER	TANGENT
50 / 70	40	80
45 / 50	30	60
35 / 40	30	60
25 / 30	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

MOST VEHICLE WEIGHT 9,900 TO 22,000 LBS.	MOST VEHICLE WEIGHT > 22,000 LBS.
< 45 MPH	< 45 MPH
45-55 MPH	45-55 MPH
> 55 MPH	> 55 MPH
100'	100'
123'	172'
172'	74'
74'	100'
100'	150'

PROTECTIVE VEHICLE (WORK VEHICLE) = R

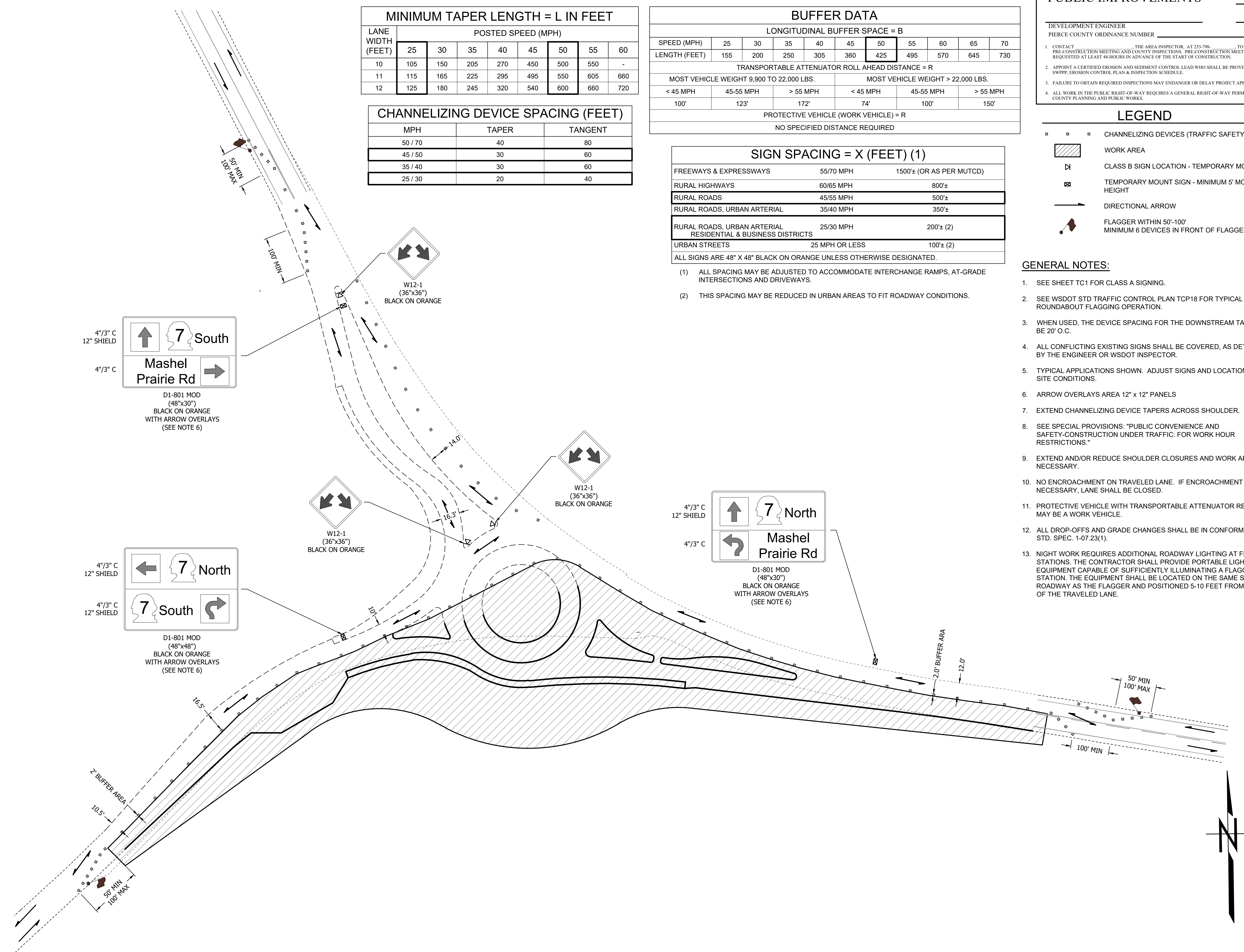
NO SPECIFIED DISTANCE REQUIRED

SIGN SPACING = X (FEET) (1)

FREEWAYS & EXPRESSWAYS	55/70 MPH	1500'± (OR AS PER MUTCD)
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	45/55 MPH	500'±
RURAL ROADS, URBAN ARTERIAL	35/40 MPH	350'±
RURAL ROADS, URBAN ARTERIAL RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

ALL SIGNS ARE 48" X 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

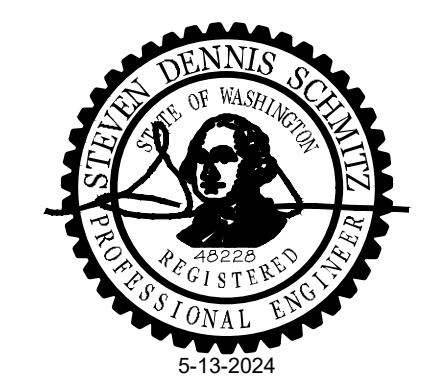
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REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

PHASE 3C - ROUNDABOUT TRAFFIC CONTROL PLAN MOT: STAGE 3

TC4

SCALE: NTS

PARKS FILE#

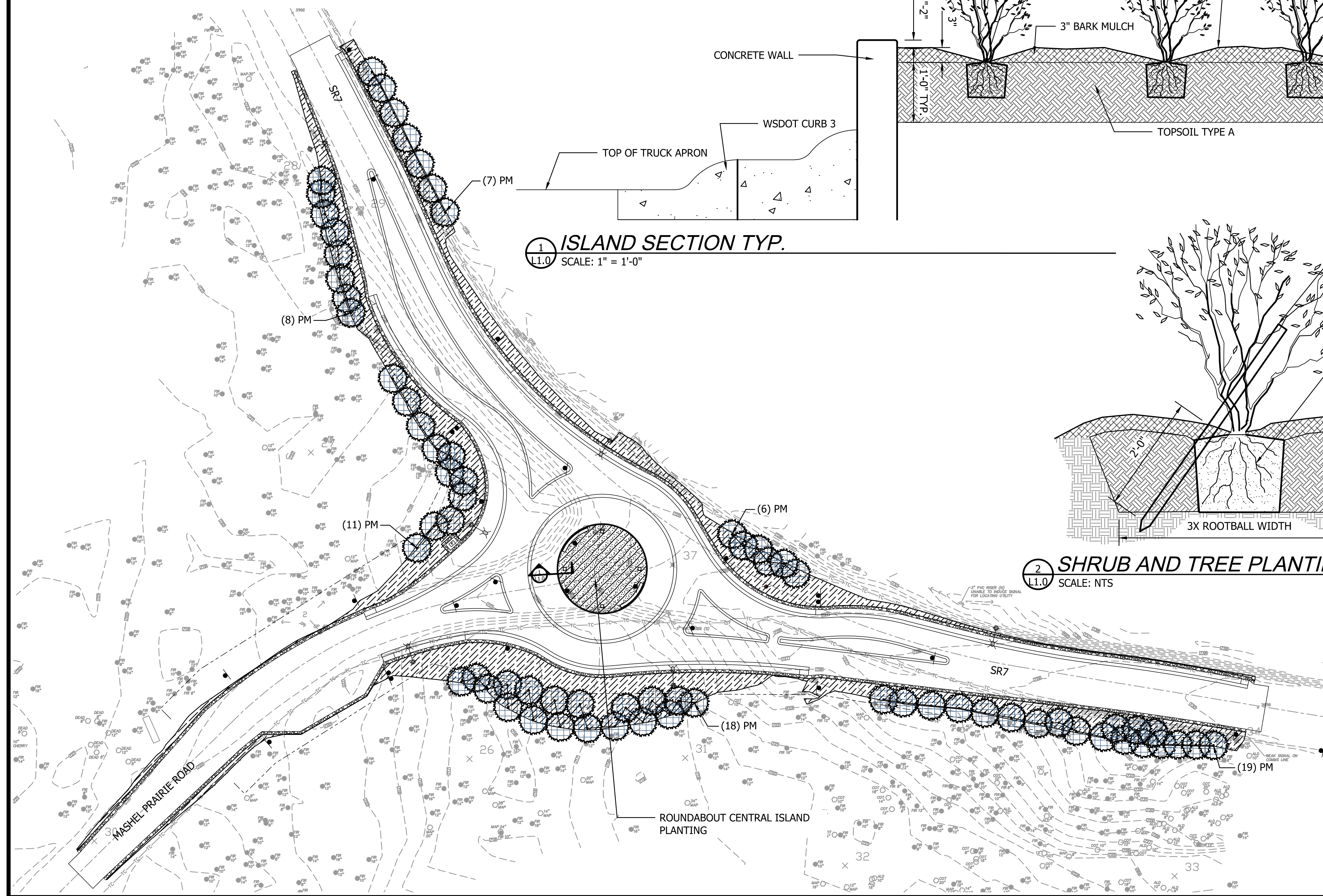
PLANT & TOPSOIL SCHEDULE

SYMBOL	TOTAL AREA	QTY	SIZE	SPACING
	SHRUB PLANTING W/ 1" MIN. TOPSOIL A & 3" BARK MULCH	2,650 SF		
	ARCTOSTAPHYLOS UVA-URSI / KINKINNICK	240	2" POT	35% @ 24" oc
	MAHONIA AQUIFOLIUM / OREGON GRAPE	122	1 GAL	40% @ 36" oc
	RIBES SANGUINEUM / RED FLOWERING CURRANT	76	1 GAL	25% @ 36" oc
	SEED MIX A W/ 2" TOPSOIL TYPE A	22,700 SF	1 PLS POUNDS PER 1000 SQUARE FEET, 33 PLS POUNDS PER ACRE	
	BOTANICAL NAME / COMMON NAME	% BY WEIGHT	SEEDS PER LB. OF MIX	SEEDS PER LB.
	PSEUDOROENGERIA SPICATA / BLUEBUNCH WHEATGRASS	20.0%	31800	159,000
	BROMUS CARINATUS / CALIFORNIA BROME	16.5%	16500	100,000
	FESTUCA IDAHOENSIS / IDAHO FESCUE	15.0%	75000	500,000
	ELYMUS ELYMODIES / SLENDER WHEATGRASS	15.0%	23850	159,000
	ELYMUS GLAUCUS / BLUE WILDRYE	15.0%	15000	100,000
	GLYCERIA OCCIDENTALLIS / NORTHWESTERN MANNAGRASS	10.0%	20100	201,000
	DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS	3.0%	75000	2,500,000
	LOTUS UNIFOLIOLATUS / AMERICAN BIRD'S-FOOT TREFOIL	2.5%	28750	1,150,000
	ELEOCHARIS PALUSTRIS / COMMON SPIKERUSH	1.0%	6200	620,000
	LUPINUS ALBICAULIS / SICKLELEK LUPINE	1.0%	210	21,000
	AGROSTIS EXARATA / SPIKE BENTGRASS	1.0%	38000	3,800,000
	ACTUAL % BY SEED SIZE		PLS LBS. NEEDED	REQUESTED %
			6.54	12%
			5.39	8%
			4.90	8%
			4.90	8%
			4.90	4%
			3.27	8%
			.98	25%
			.82	8%
			.33	5%
			.33	4%
			.33	10%

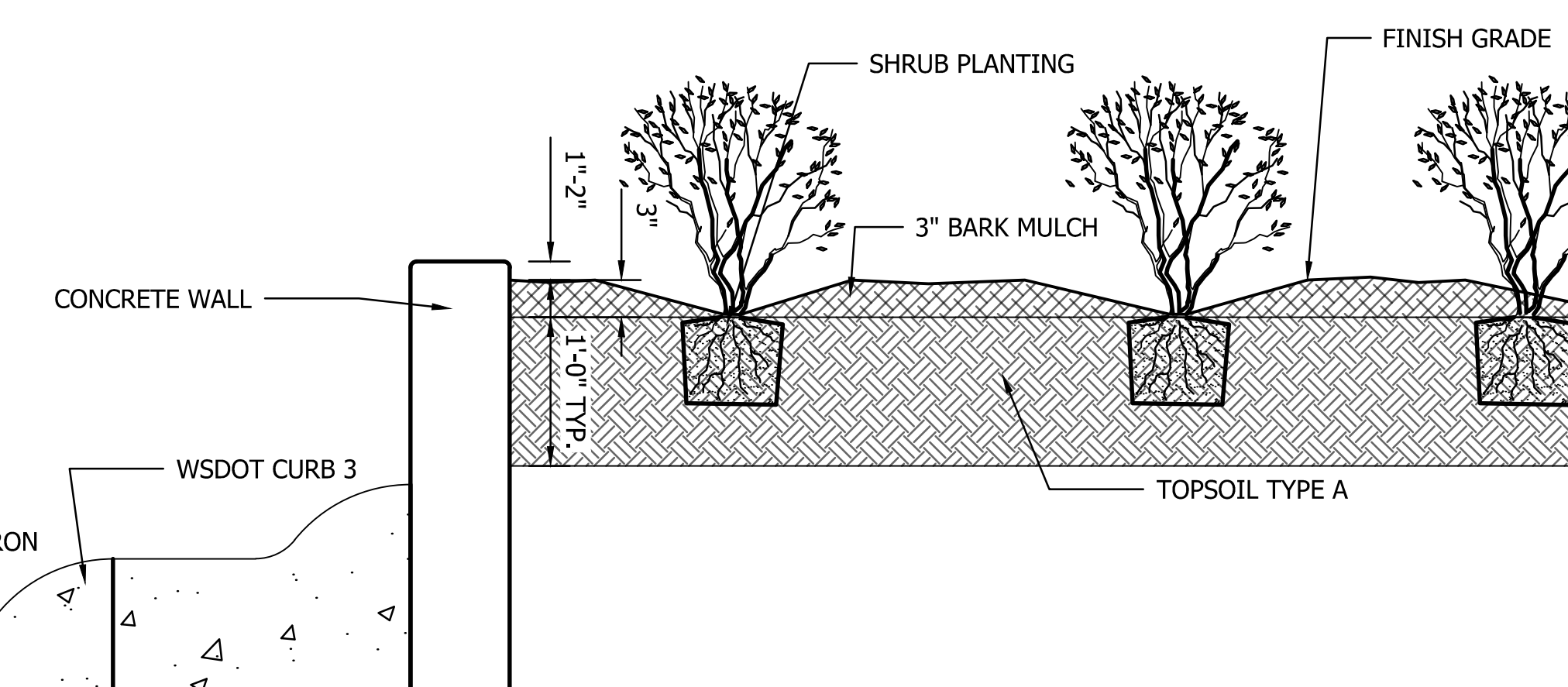
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT
	PM	69	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	2 GAL.	2'-0" MIN.

PLANTING IMPROVEMENTS GENERAL NOTES

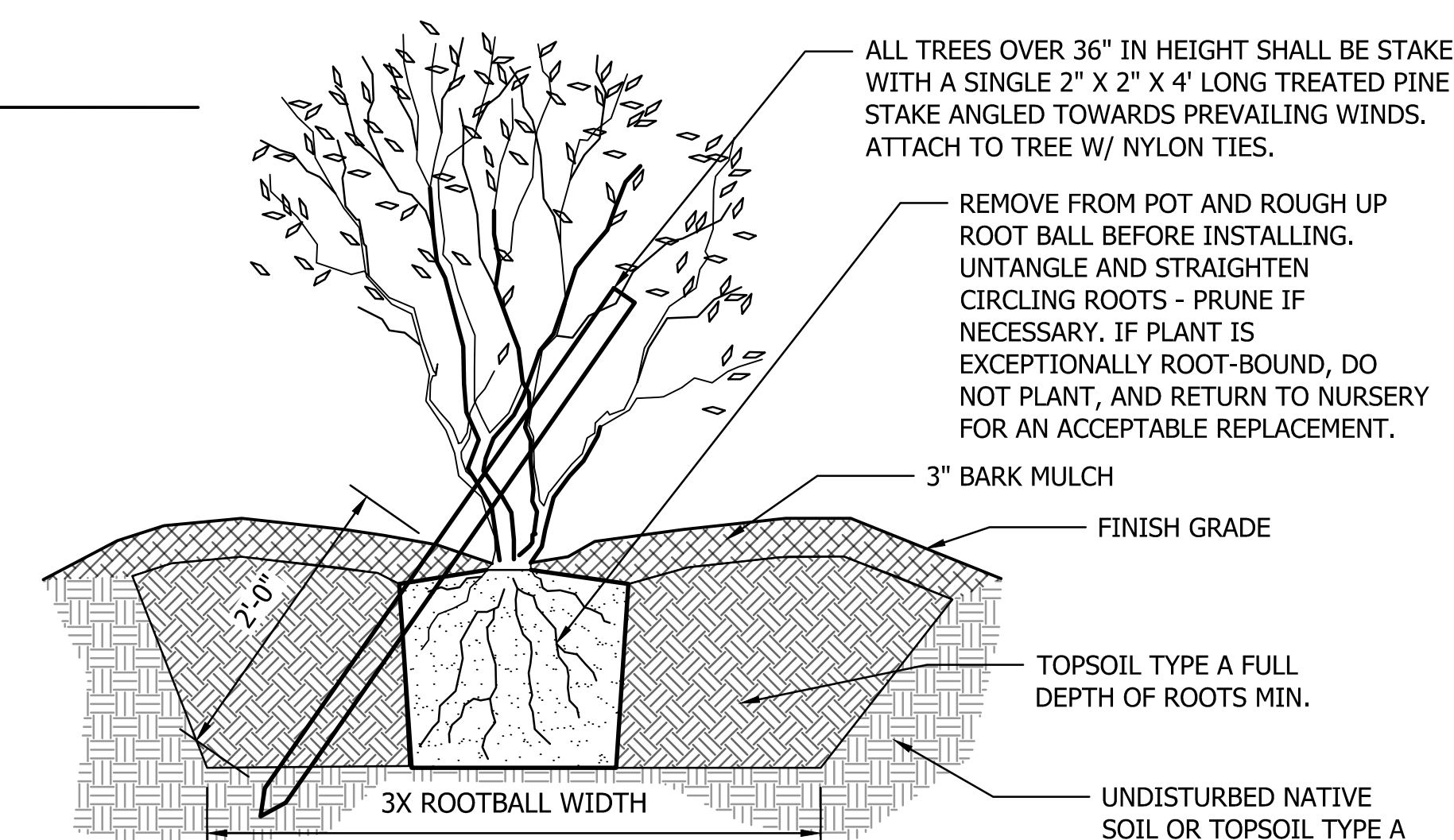
- CONTRACTOR IS REQUIRED TO VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL THE UTILITIES UNDERGROUND LOCATION CENTER (1-800-424-5555) AT LEAST TWO DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR. ALL CONSTRUCTION CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CONSTRUCTION OBSERVER IMMEDIATELY UPON RECOGNITION.
- CONTRACTOR IS RESPONSIBLE FOR A THOROUGH CLEAN-UP FOR THEIR RESPECTIVE WORK, DAILY AND AT PROJECT CLOSE-OUT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING IMPROVEMENTS. DAMAGE TO THE EXISTING IMPROVEMENTS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND/OR QUALIFIED INSTALLERS/TRADES ACCEPTABLE TO THE SOLE SATISFACTION OF THE CONSTRUCTION OBSERVER AND AT NO COST TO THE OWNER.
- PLANT MATERIALS SHALL MEET STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARD (ANSI Z60.1) AND WASHINGTON STATE STANDARDS FOR NURSERY STOCK ORDER NO. 1627. ALL PLANT MATERIALS SHALL HAVE SUFFICIENT ROOT DEVELOPMENT TO ASSURE SURVIVAL AND HEALTHY GROWTH. CONTAINER GROWN PLANT MATERIALS ARE REQUIRED TO HAVE SUFFICIENT ROOT GROWTH TO HOLD THE SOIL INTACT WHEN REMOVED FROM THE CONTAINER, BUT SHALL NOT BE ROOT BOUND.
- NO SUBSTITUTIONS SHALL BE CONSIDERED FOR PLANTS OR OTHER MATERIALS DURING THE BIDDING PROCESS.
- CONTRACTOR SHALL WATER IN ALL PLANTS AT TIME OF PLANTING.
- CONTRACTOR IS RESPONSIBLE OF KEEPING ROOT ZONES OF TREES MOIST UNTIL PROJECTS FINAL ACCEPTANCE.
- INSTALLATION OF PLANT MATERIAL IN CENTRAL ISLAND IS TO BE DEFERRED UNTIL ART INSTALLATION IS COMPLETE. MULCH IS TO BE INSTALLED AS PART OF ROUNDABOUT CONSTRUCTION.



1 ISLAND SECTION TYP.
SCALE: 1" = 1'-0"



2 SHRUB AND TREE PLANTING
SCALE: NTS



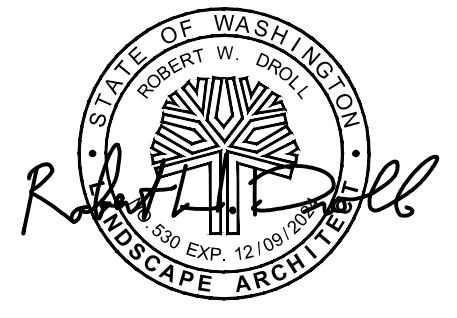
ALL TREES OVER 36" IN HEIGHT SHALL BE STAKED WITH A SINGLE 2" X 2" X 4' LONG TREATED PINE STAKE ANGLED TOWARDS PREVAILING WINDS. ATTACH TO TREE W/ NYLON TIES.

REMOVE FROM POT AND ROUGH UP ROOT BALL BEFORE INSTALLING. UNTANGLE AND STRAIGHTEN CIRCLING ROOTS - PRUNE IF NECESSARY. IF PLANT IS EXCEPTIONALLY ROOT-BOUND, DO NOT PLANT, AND RETURN TO NURSERY FOR AN ACCEPTABLE REPLACEMENT.

PERMIT SUBMITTAL SET

CAD NO.		
	INT.	DATE
	APP.	
	REV.	
	NO.	

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

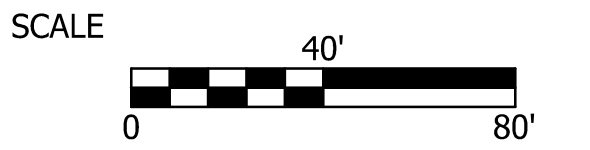
PHASE 3C ROUNDABOUT

LANDSCAPE PLAN

L1.0



SHEET ___ OF ___



PARKS FILE#