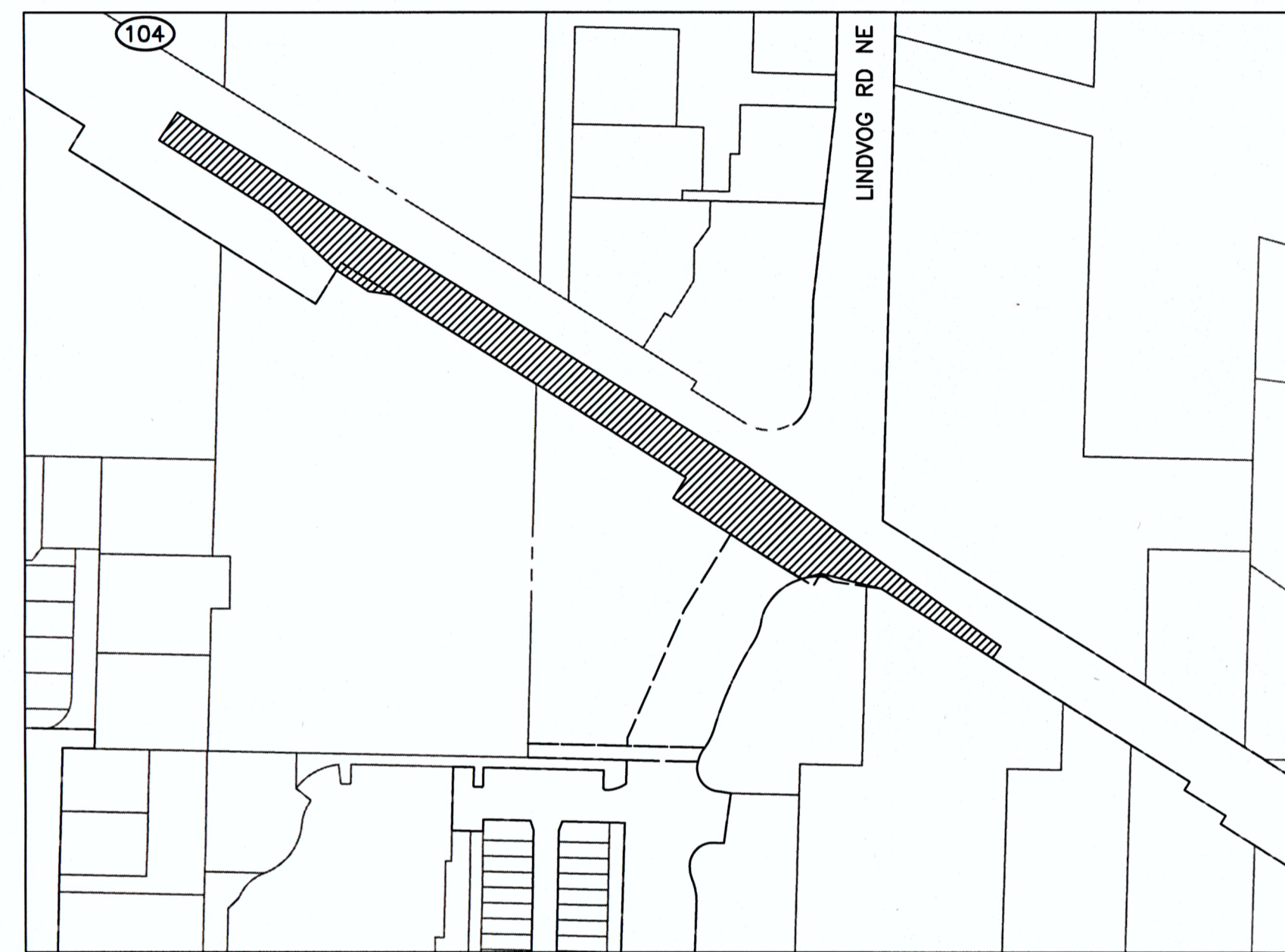


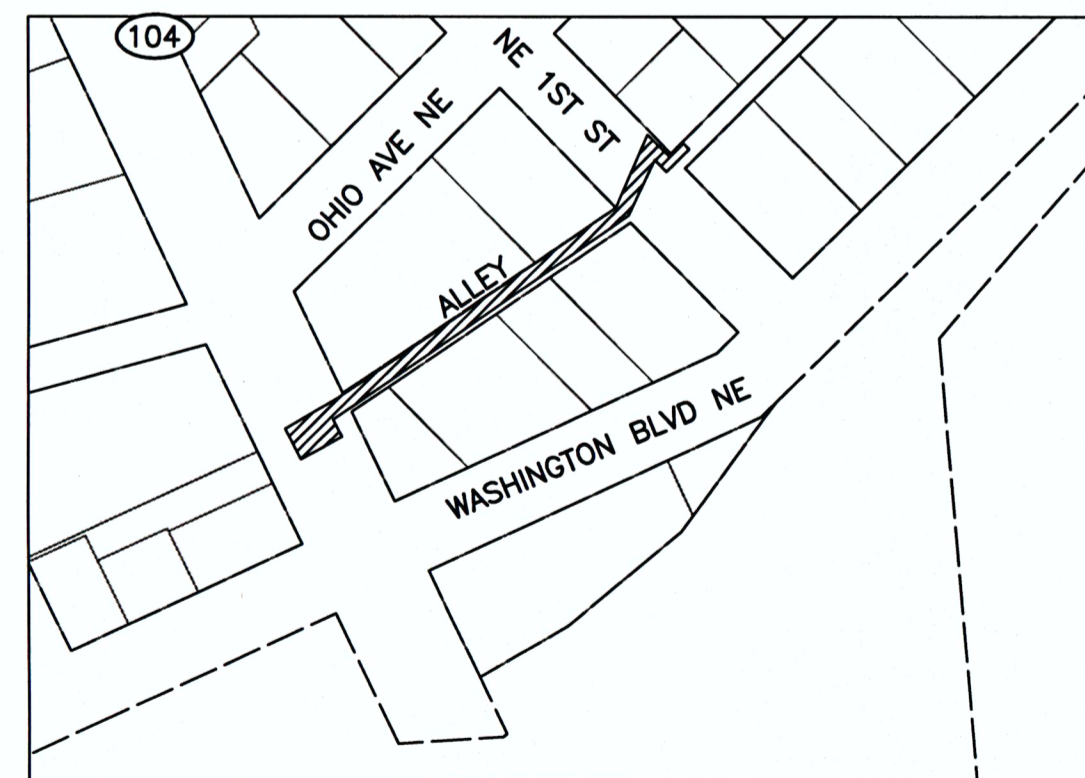
# SR 104 HOLDING LANES ATMS

JANUARY 2025  
M.P. 23.73 - 23.91

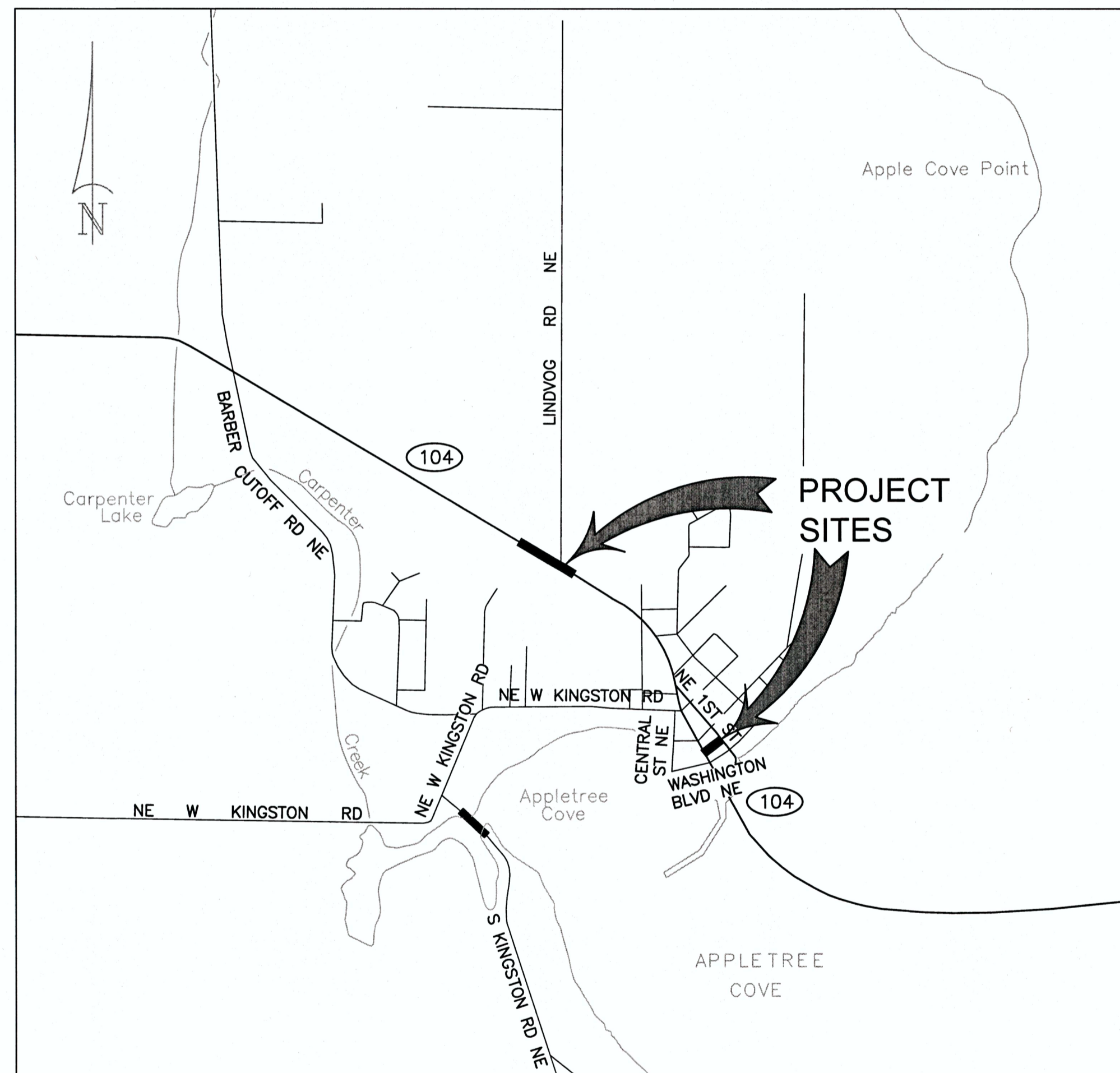
FEDERAL AID #: STBGUM-CRRSAA-0104(068), CONTRACT TA 7701  
COUNTY ROAD PROJECT No. CRP 1636



LINDVOG RD NE  
N.T.S.



WASHINGTON BLVD NE  
N.T.S.



VICINITY MAP  
N.T.S.

**BOARD OF COMMISSIONERS:**

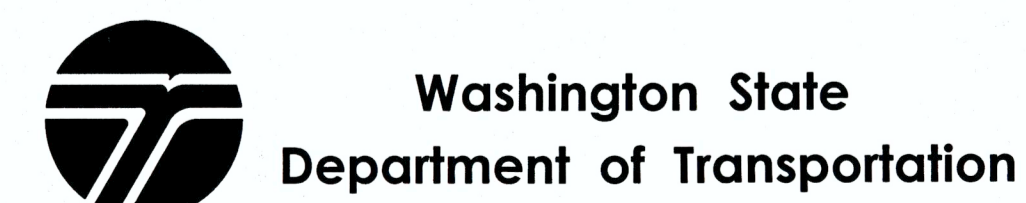
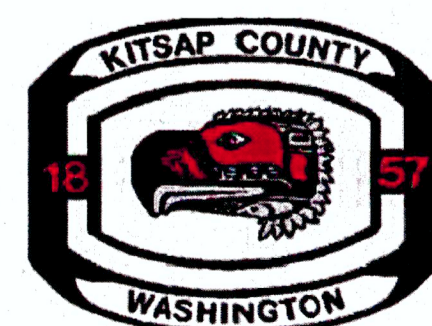
CHRISTINE ROLFES  
ORAN ROOT  
KATHERINE T. WALTERS

**DIRECTOR OF PUBLIC WORKS**

ANDREW B. NELSON, P.E.

**SHEET INDEX**

SHEET TITLE	DRAWING #	SHEET #
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APPROVED FOR CONSTRUCTION:

2/11/25  
DATE  
JOSEPH P. RUTAN, P.E., COUNTY ENGINEER

### WATER SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
J	J	CAP/PLUG
+	+	COUPLING
o	o	GUARD POST
▷	▷	REDUCER
◁	◁	THRUST BLOCKING
田	田	WATER METER
Q	Q	FIRE HYDRANT 2-NOZZLE
Q	Q	FIRE HYDRANT 3-NOZZLE
		FLANGE/BLIND FL (FL) (BL FL)
┌	┌	MECHANICAL JOINT (MJ)
└	└	PUSH-ON/HUB
		THREAD
○	○	AIR RELIEF VALVE
⊖	⊖	BLOW-OFF VALVE
⊗	⊗	BUTTERFLY VALVE
⊘	⊘	CHECK VALVE
⊗	⊗	GATE/GENERAL VALVE
⊘	⊘	PLUG VALVE

### GAS/POWER/TELEPHONE SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
⊠	⊠	GAS METER
⊠	⊠	GAS VALVE
△	△	PAD MOUNTED TRANSFORMER
P	P	POWER VAULT
⊠	⊠	TRANSMISSION TOWER
○	○	UTILITY POLE
←	←	UTILITY POLE ANCHOR
o	o	TELEPHONE RISER
T	T	TELEPHONE VAULT

### SURVEY SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
△	△	ANGLE POINT
⊕	⊕	BENCH MARK
o	o	BLOCK CORNER
o	o	IRON PIPE
⊕	⊕	MONUMENT (IN CASE)
⊕	⊕	MONUMENT (SURFACE)
⌒	⌒	OWNERSHIP TIE
⊕	⊕	SECTION CORNER
⊕	⊕	QUARTER CORNER
⊕	⊕	SIXTEENTH CORNER
⊕	⊕	CLOSING CORNER
MC	MC	MEANDER CORNER
WC	WC	WITNESS CORNER
⊗	⊗	SOIL BORING/POTHOLING
x	x	SPOT ELEVATION
XXX	XXX	TAX LOT/PARCEL NUMBER

### SIGNALIZATION SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
○	○	AERIAL DISCONNECT
○	○	AERIAL TERMINAL COMPARTMENT
□	□	DIPOLE DETECTOR
▭	▭	QUADRAPOLE DETECTOR
○	○	ROUND LOOP DETECTOR
□	□	INDICATOR LIGHT
⊕	⊕	OPTICOM SENSOR
⊕	⊕	OPTICOM SENSOR W/ INDICATOR LIGHTS
⊕	⊕	FLASHING WARNING SYSTEM
⊠	⊠	JUNCTION BOXES (TYPE I, II, 8)
⊕	⊕	PEDESTRIAN PUSHBUTTON POST W/ PUSHBUTTON
⊕	⊕	PEDESTRIAN SIGNAL HEAD
○	○	SIGNAL POLE NOTE
⊕	⊕	R/R CROSSING GATE
⊕	⊕	R/R CROSSING SIGNAL
⊠	⊠	SIGNAL CONTROLLER
⊠	⊠	SIGNAL LOAD CENTER
⊕	⊕	STREET LIGHT ASSEMBLY
⊕	⊕	TRAFFIC SIGN-BRIDGE
⊕	⊕	TRAFFIC SIGN-CANTILEVERED
⊕	⊕	TRAFFIC SIGN-SINGLE POST
⊕	⊕	TRAFFIC SIGN-DOUBLE POST
⊕	⊕	TRAFFIC SIGNAL POLE
⊕	⊕	TRAFFIC SIGNAL POLE W/ LUMINAIRE
⊕	⊕	TRAFFIC SIGNAL SUPPORT POLE
⊕	⊕	VEHICLE SIGNAL HEAD
⊕	⊕	VEHICLE SIGNAL HEAD W/ ARROW INDICATOR
TD	TD	TICKET DISPENSER
△	△	WIRE NOTE

### SANITARY/STORM SEWER SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
o	o	SANITARY SEWER CLEAN OUT
○	○	SANITARY SEWER MANHOLE
□	□	STORM DRAIN CATCH BASIN (TYPE 1)
⊕	⊕	STORM DRAIN CULVERT
⊕	⊕	STORM DRAIN CATCH BASIN (TYPE 2)
⊕	⊕	STORM DRAIN MANHOLE
⊕	⊕	ENERGY DISSIPATOR
⊕	⊕	OVERFLOW STRUCTURE

### CHANNELIZATION SYMBOLS

SYMBOL EXIST.	PROP.	DESCRIPTION
⊕	⊕	BIKE PATH
⊕	⊕	HANDICAP SYMBOL
◇	◇	H.O.V. LANE SYMBOL
ONLY	ONLY	ONLY
X	X	RAILROAD CROSSING
SCHOOL	SCHOOL	SCHOOL
STOP	STOP	STOP
↑	↑	STRAIGHT ARROW
↔	↔	LT.RT.STR. ARROW
↔	↔	LEFT-RIGHT ARROW
↔	↔	2-WAY LEFT TURN
↔	↔	LEFT TURN ARROW
↔	↔	RIGHT TURN ARROW
↔	↔	LEFT-STRAIGHT ARROW
↔	↔	RIGHT-STRAIGHT ARROW
o	o	LANE MARKER TYPE I
□	□	LANE MARKER TYPE II

### SURFACE FEATURES/LANDSCAPING

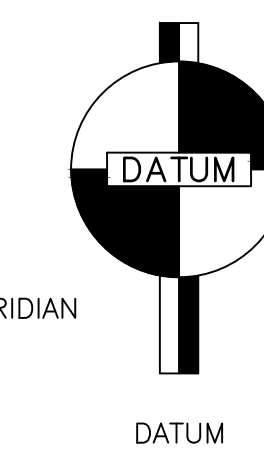
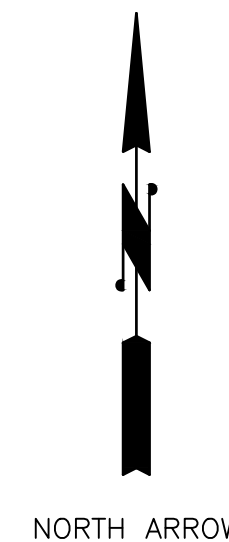
SYMBOL EXIST.	PROP.	DESCRIPTION
BUS	BUS	BUS STOP
▭	▭	EMBANKMENT
□	□	MAIL BOX
⊕	⊕	RIP RAP
⊕	⊕	ROCKERY
⊕	⊕	SHRUB
⊕	⊕	SIGN
⊕	⊕	TREE (CONIFER)
⊕	⊕	TREE (DECIDUOUS)
⊕	⊕	FENCE POST
⊕	⊕	CURB RAMP
⊕	⊕	YARD LIGHT

### ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADJ	ADJUST
ALIGN	ALIGNMENT
ALT	ALTERNATE
AP	ANGLE POINT
APPROX	APPROXIMATELY
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
BM	BENCH MARK
BOT	BOTTOM
BTWN	BETWEEN
CB	CATCH BASIN
CB1	CATCH BASIN TYPE 1
CB2	CATCH BASIN TYPE 2
CG	CURB & GUTTER
C/L, CL, C	CENTERLINE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCT
CONT	CONTINUED/CONTINUOUS
DET	DETAIL
DWG	DRAWING
E	EAST, VERTICAL DISTANCE BETWEEN PVI AND ROAD SURFACE
EA	EACH
EL	ELEVATION
EX, EXIST	EXISTING
FH	FIRE HYDRANT
FT	FEET/FOOT
G	GAS LINE
GE	GROUND ELEVATION
GV	GAS VALVE
HORIZ	HORIZONTAL
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
IE	INVERT ELEVATION
IN	INCH/INCHES
INT, INTX	INTERSECTION
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
K	RATE OF VERTICAL CURVATURE (LENGTH (FT) PER % DIFF. IN GRADE)
L	LENGTH OF ARC
LF	LINEAL FOOT/FEET
LT	LEFT
LUMIN	LUMINAIRE
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
N	NORTH
NA	NOT APPLICABLE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NO.	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE / POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
R	RADIUS/RANGE
REF	REFERENCE
RT	RIGHT
R/W, ROW	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SEC	SECTION
SLJB	STREET LIGHTING JUNCTION BOX
SPEC	SPECIFICATION
STD	STANDARD
SR	STATE ROUTE
SS	SANITARY SEWER
ST	STREET
STA	STATION
S/W	SIDEWALK
T	TOWNSHIP
TOC	TOP OF CURB
UTIL	UTILITY
VERT	VERTICAL
W	WEST, WATER LINE
W/W	WITH WASHINGTON WILLAMETTE PRINCIPAL MERIDIAN
WM	WILLAMETTE PRINCIPAL MERIDIAN

### LINETYPES

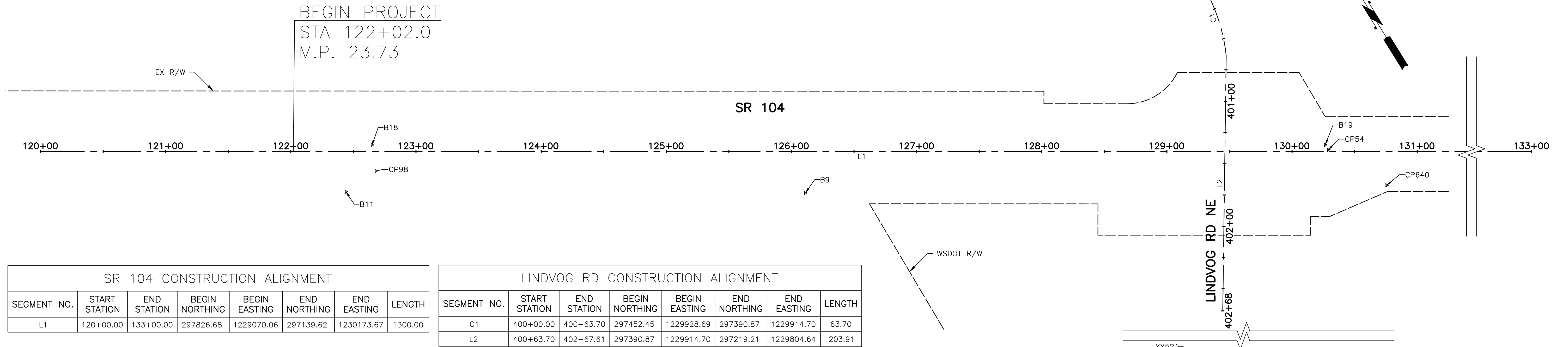
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▬	SURFACE FEATURES:
▬	EXISTING BUILDING LINE
▬	PROPOSED BUILDING LINE
▬	EXISTING DITCH
▬	PROPOSED DITCH
▬	EXISTING CURB/PAVEMENT/SIDEWALK
▬	PROPOSED CURB/PAVEMENT/SIDEWALK
▬	EXISTING FENCE LINE
▬	PROPOSED FENCE LINE
▬	EXISTING GRAVEL
▬	EXISTING GUARDRAIL
▬	PROPOSED GUARDRAIL
▬	LAKE/POND
▬	WETLAND/SWAMP PERIMETER
▬	RAILROAD
▬	EXISTING RETAINING WALL
▬	PROPOSED RETAINING WALL
▬	RIVERBANK/ShORELINE
▬	VEGETATION LINE
▬	SURVEY:
▬	EXISTING CENTERLINE
▬	PROPOSED CENTERLINE
▬	EXISTING CONTOUR (INTERMEDIATE)
▬	EXISTING CONTOUR (INDEX)
▬	PROPOSED CONTOUR (INTERMEDIATE)
▬	PROPOSED CONTOUR (INDEX)
▬	EXISTING EASEMENT LINE
▬	PROPOSED EASEMENT LINE
▬	EXISTING PROPERTY LINE
▬	EXISTING RIGHT OF WAY CENTERLINE
▬	EXISTING RIGHT OF WAY
▬	EXISTING RIGHT OF WAY (USED)
▬	PROPOSED RIGHT OF WAY
▬	SECTION LINE
▬	QUARTER SECTION LINE
▬	16TH SECTION LINE
▬	UTILITIES (EXISTING)
▬	EXISTING GAS LINE
▬	EXISTING AERIAL POWER
▬	EXISTING BURIED POWER
▬	EXISTING STORM DRAIN
▬	EXISTING FORCE MAIN
▬	EXISTING SANITARY SEWER
▬	EXISTING AERIAL TELEPHONE
▬	EXISTING BURIED TELEPHONE
▬	EXISTING WATER LINE
▬	EXISTING BURIED CABLE LINE UTILITIES (PROPOSED)
▬	PROPOSED GAS LINE
▬	PROPOSED AERIAL POWER
▬	PROPOSED BURIED POWER
▬	PROPOSED STORM DRAIN
▬	PROPOSED FORCE MAIN
▬	PROPOSED SANITARY SEWER
▬	PROPOSED AERIAL TELEPHONE
▬	PROPOSED BURIED TELEPHONE
▬	PROPOSED WATER LINE
▬	CUSTOM:
▬	CUT LINE
▬	FILL LINE
▬	SILT FENCE



Jan 31, 2025 - 8:31am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - CV.dwg Layout Name: GN1

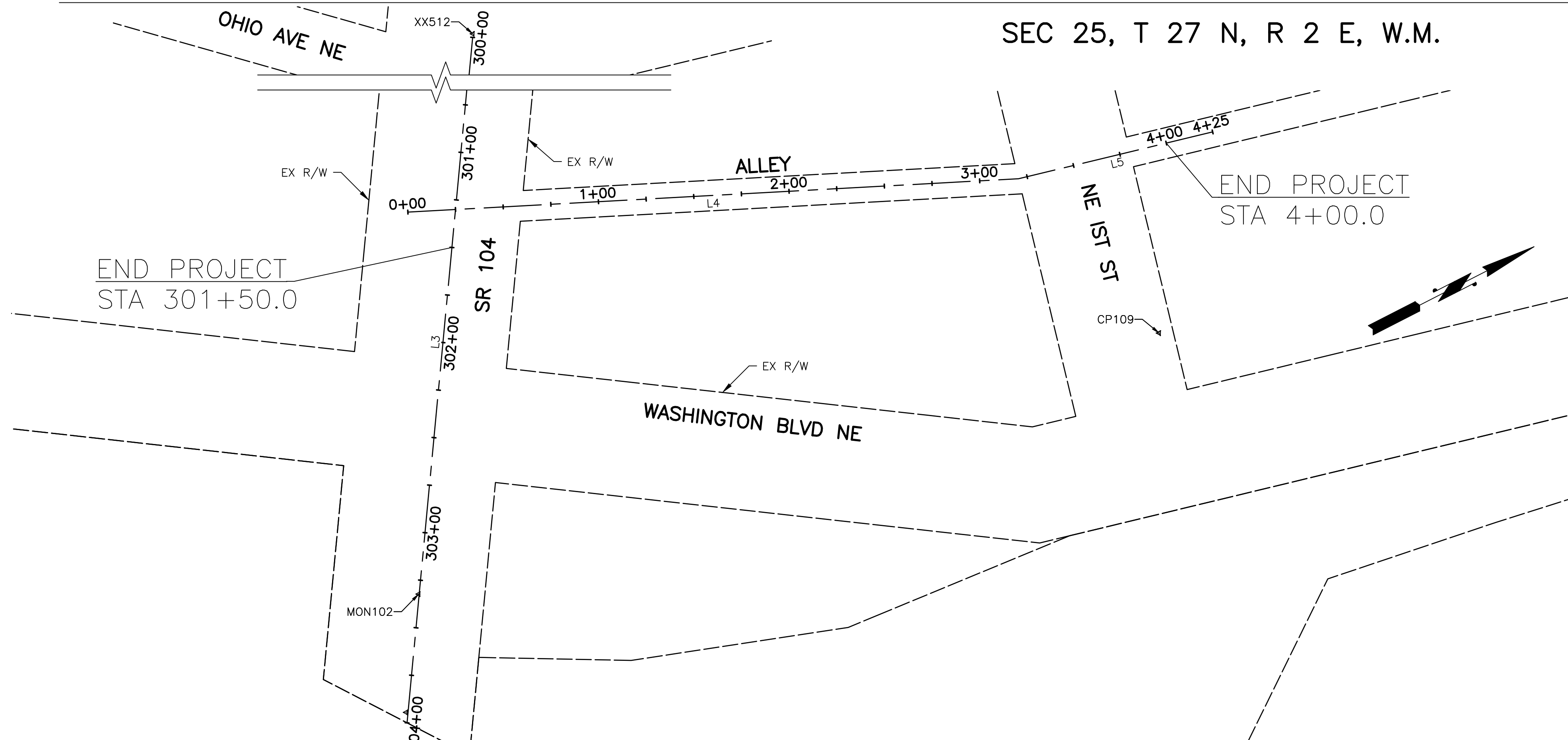
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TIME Jan 31, 2025	DATE 8:31am	JOB NUMBER 20230139	CONTRACT NO. TA 7701	LOCATION NO.					SR 104 HOLDING LANES ATMS	SHEET 2 OF 28 SHEETS
DESIGNED BY K. WISEMAN	ENTERED BY N. EATON				KITSAP COUNTY		JANUARY 2025		LEGEND AND ABBREVIATIONS	
CHECKED BY	PROJ. ENGR. P. BUCHANAN	REVISION	DATE	BY						

SEC 26, T 27 N, R 2 E, W.M.



SR 104 CONSTRUCTION ALIGNMENT							
SEGMENT NO.	START STATION	END STATION	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING	LENGTH
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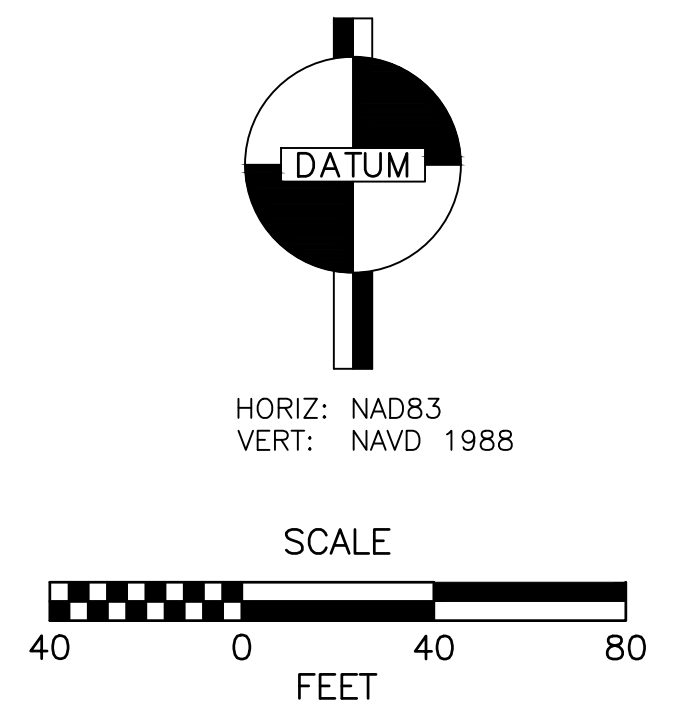
LINDVOG RD CONSTRUCTION ALIGNMENT							
SEGMENT NO.	START STATION	END STATION	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING	LENGTH
C1	400+00.00	400+63.70	297452.45	1229928.69	297390.87	1229914.70	63.70
L2	400+63.70	402+67.61	297390.87	1229914.70	297219.21	1229804.64	203.91



SR 104 AT WASHINGTON BLVD NE CONSTRUCTION ALIGNMENT							
SEGMENT NO.	START STATION	END STATION	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING	LENGTH
L3	300+00.00	304+00.00	295371.31	1231468.15	295010.64	1231641.10	400.00

ALLEY CONSTRUCTION ALIGNMENT							
SEGMENT NO.	START STATION	END STATION	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING	LENGTH
L4	0+00.00	3+20.40	295240.03	1231503.68	295419.85	1231768.86	320.40
L5	3+20.40	4+25.00	295419.85	1231768.86	295493.25	1231843.39	104.60

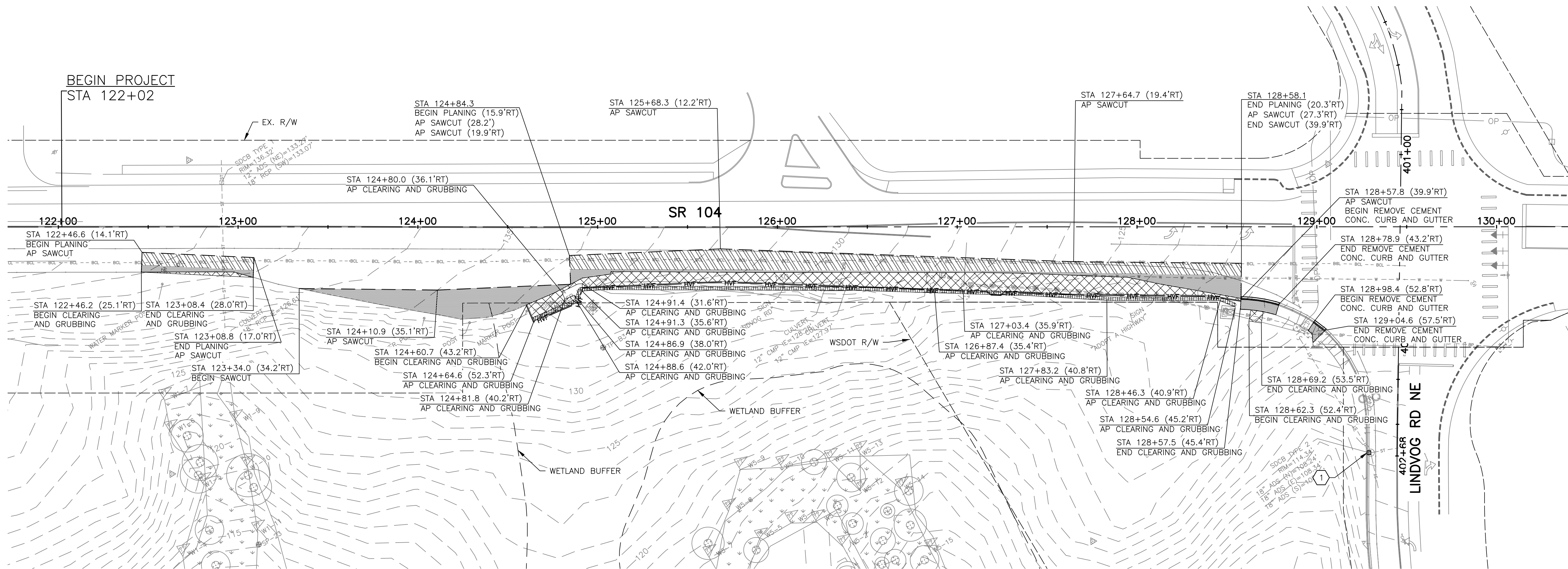
SURVEY CONTROL POINTS				
POINT NO.	Elevation	Northing	Easting	Description
B11	136.53	297670.20	1229260.15	-
B18	138.18	297691.07	1229297.57	-
CP98	137.55	297671.78	1229289.29	-
B9	131.41	297475.44	1229571.31	-
B19	117.79	297288.60	1229944.27	-
CP54	117.80	297283.98	1229944.25	-
CP640	114.67	297235.26	1229968.98	-
XX521	107.04	297156.33	1229770.79	MONUMENT
XX512	39.24	295372.94	1231467.26	-
MON102	26.71	295071.54	1231611.58	MONUMENT
CP109	46.17	295388.53	1231873.60	-



**PERTEET**  
 801 2ND AVENUE, SUITE 302  
 SEATTLE, WA 98104  
 206.436.0515 | 800.615.9900

FILE NAME: X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 -AL.dwg Layout Name: AL1		REGION NO. STATE	FED.AID PROJ.NO.				SR 104	PLAN REF NO
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DESIGNED BY: K. WISEMAN	ENTERED BY: N. EATON	JOB NUMBER: 20230139	LOCATION NO.			SR 104 HOLDING LANES ATMS KITSAP COUNTY JANUARY 2025 ALIGNMENT PLAN	SHEET 3 OF 28 SHEETS	
CHECKED BY:	PROJ. ENGR. P. BUCHANAN	CONTRACT NO. TA 7701	REVISION				DATE	BY
REGIONAL ADM.								

SEC 26, T 27 N, R 2 E, W.M.



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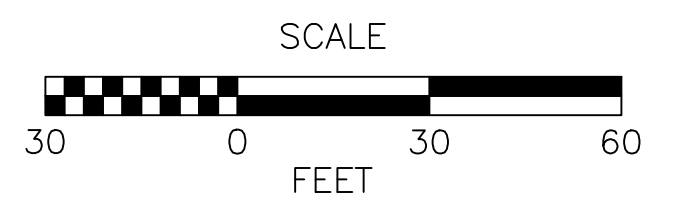
- CLEARING AND GRUBBING
- ROADWAY EXCAVATION INCL. HAUL
- PLANNING BITUMINOUS PAVEMENT
- HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10
- SAWCUT EXISTING PAVEMENT
- COMPOST SOCK
- REMOVE CEMENT CONCRETE CURB
- REMOVE CEMENT CONCRETE CURB AND GUTTER
- INLET PROTECTION

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE DRAINAGE DURING CONSTRUCTION.
2. SEE ITS DWGS. FOR SIGNAL REMOVALS, ADJUSTMENTS, AND RELOCATIONS.

CONSTRUCTION NOTES:

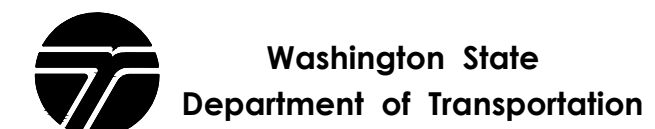
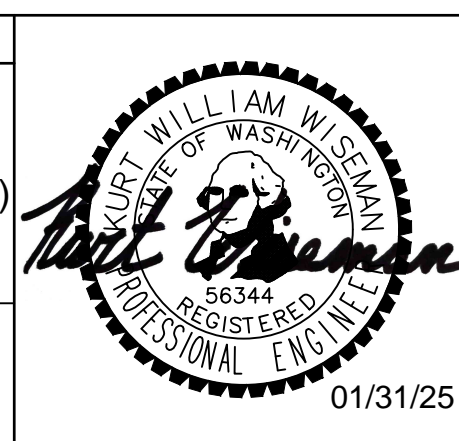
- ① INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20



Jan 31, 2025 - 8:32am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - SP.dwg Layout Name: SP1

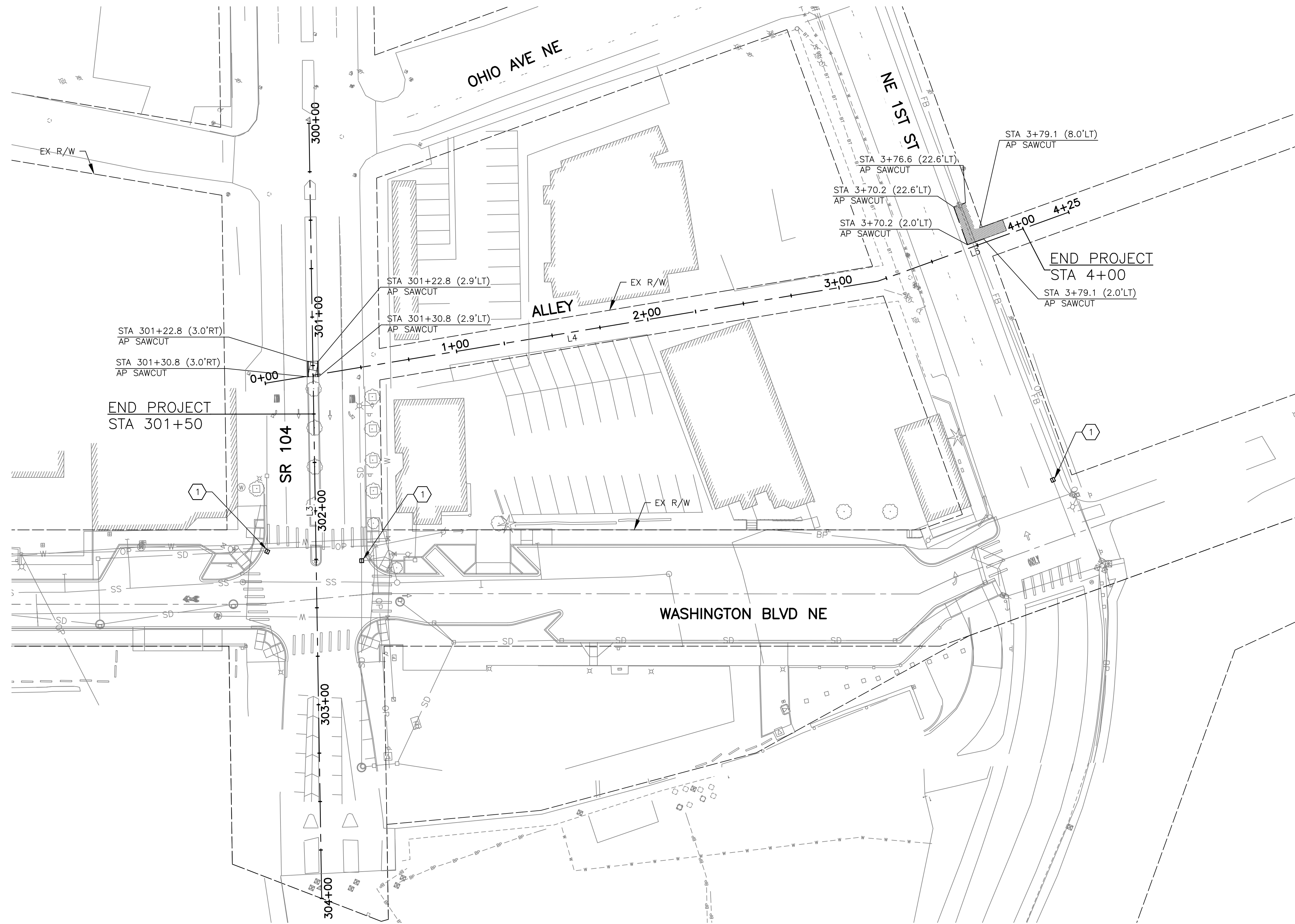
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DATE	8:32am		
DESIGNED BY	K. WISEMAN		
ENTERED BY	N. EATON		
CHECKED BY			
PROJ. ENGR.	P. BUCHANAN		
REGIONAL ADM.		REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER	20230139	
CONTRACT NO.	TA 7701	
LOCATION NO.		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO
KITSAP COUNTY	JANUARY 2025	SP1
SITE PREPARATIONS AND TESC PLAN		SHEET 4 OF 28 SHEETS

SEC 25, T 27 N, R 2 E, W.M.



LEGEND:

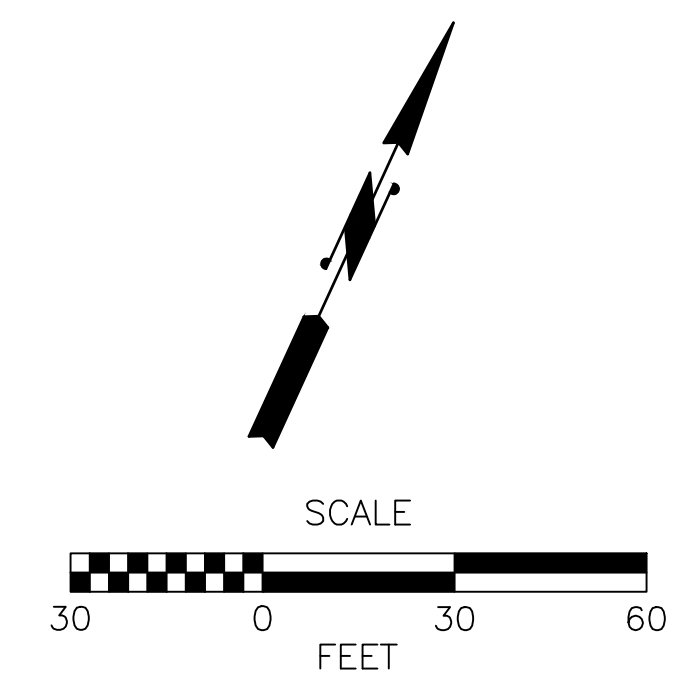
- CLEARING AND GRUBBING
- ROADWAY EXCAVATION INCL. HAUL
- PLANING BITUMINOUS PAVEMENT
- HIGH VISIBILITY FENCE PER WSDOT STD. PLAN 1-10.10
- SAWCUT EXISTING PAVEMENT
- COMPOST SOCK
- REMOVE CEMENT CONCRETE CURB
- REMOVE CEMENT CONCRETE CURB AND GUTTER
- INLET PROTECTION

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE DRAINAGE DURING CONSTRUCTION.
2. SEE ITS DWGS. FOR SIGNAL REMOVALS, ADJUSTMENTS, AND RELOCATIONS.

CONSTRUCTION NOTES:

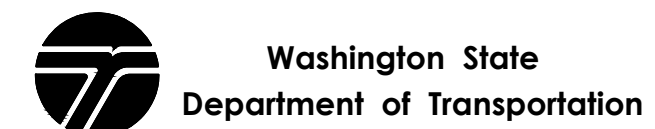
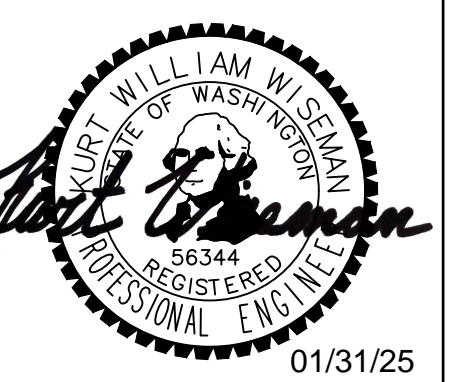
1. INSTALL INLET PROTECTION PER WSDOT STD. PLAN 1-40.20



Jan 31, 2025 - 8:33am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - SP.dwg Layout Name: SP2

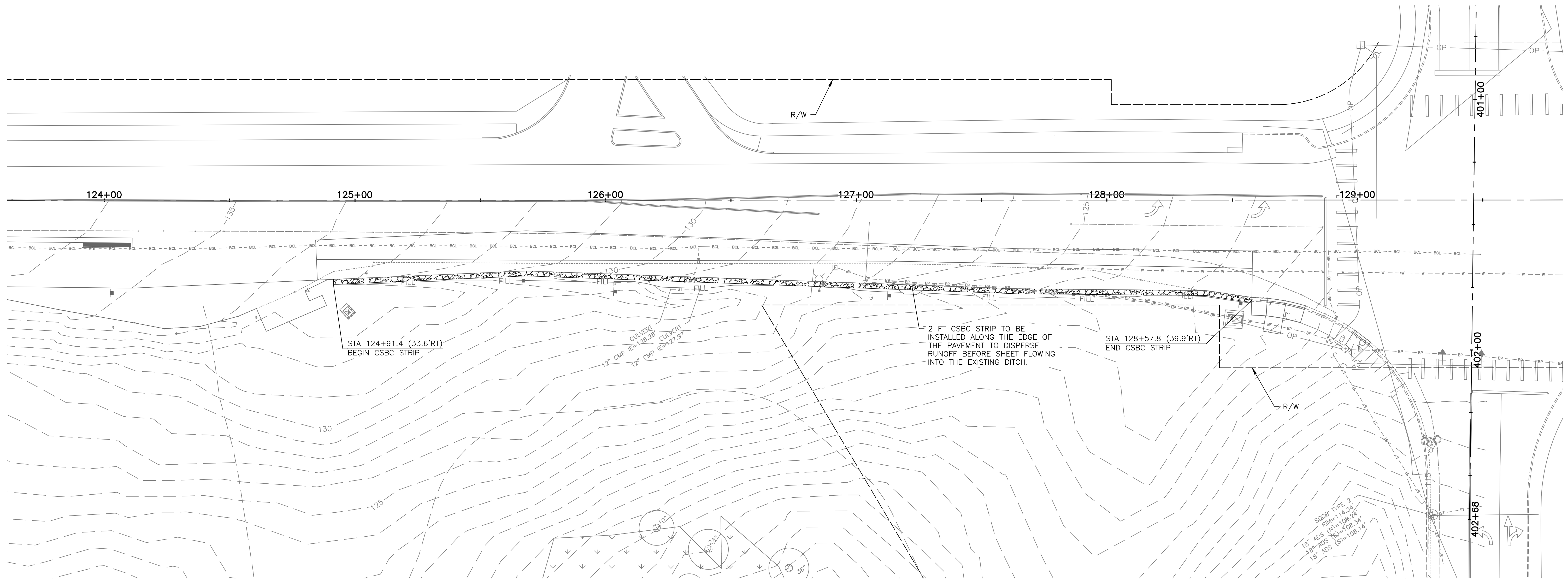
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DATE	8:32am		
DESIGNED BY	K. WISEMAN	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY	--	JOB NUMBER	20230139
PROJ. ENGR.	P. BUCHANAN	CONTRACT NO.	TA 7701
REGIONAL ADM.		LOCATION NO.	
REVISION		DATE	BY

FED.AID PROJ.NO.	STBGUM-CRRSAA-0104(068)
LOCATION NO.	



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	SP2
KITSAP COUNTY	JANUARY 2025	SHEET	5
SITE PREPARATIONS AND TESC PLAN		OF	28
		SHEETS	

SEC 26, T 27 N, R 2 E, W.M.

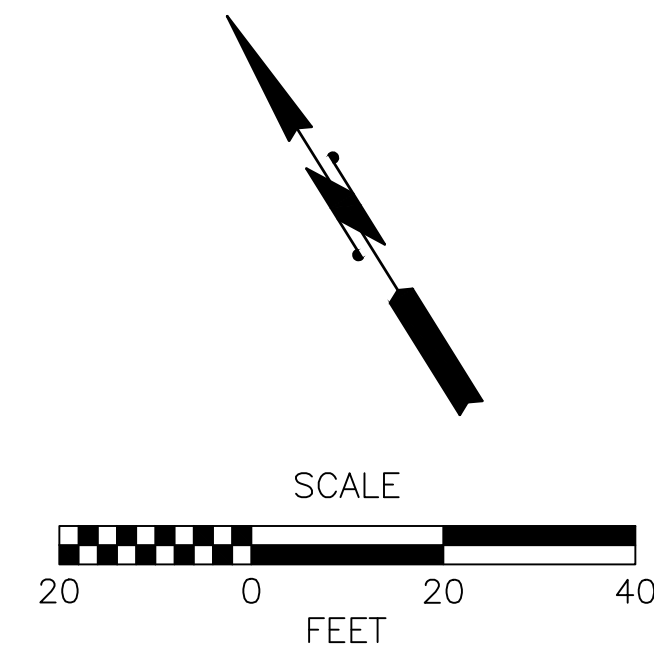


LEGEND:

 CSBC 1' DEPTH

GENERAL NOTES:

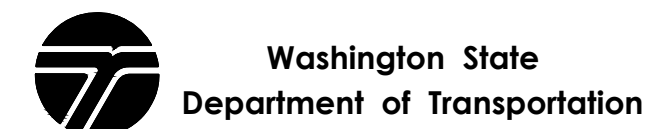
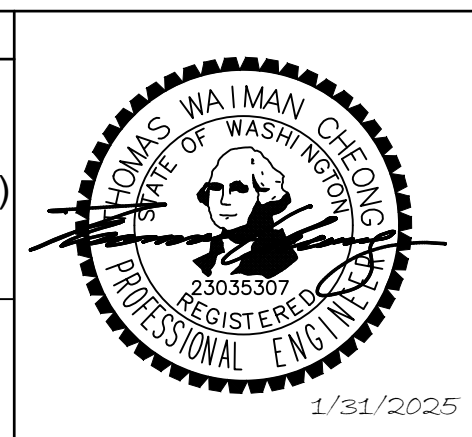
1. THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE IS INSTALLED AND OPERATIONAL PRIOR TO THE COMMENCEMENT OF PAVING WORK.



Jan 31, 2025 - 8:33am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - UT.dwg Layout Name: UT1

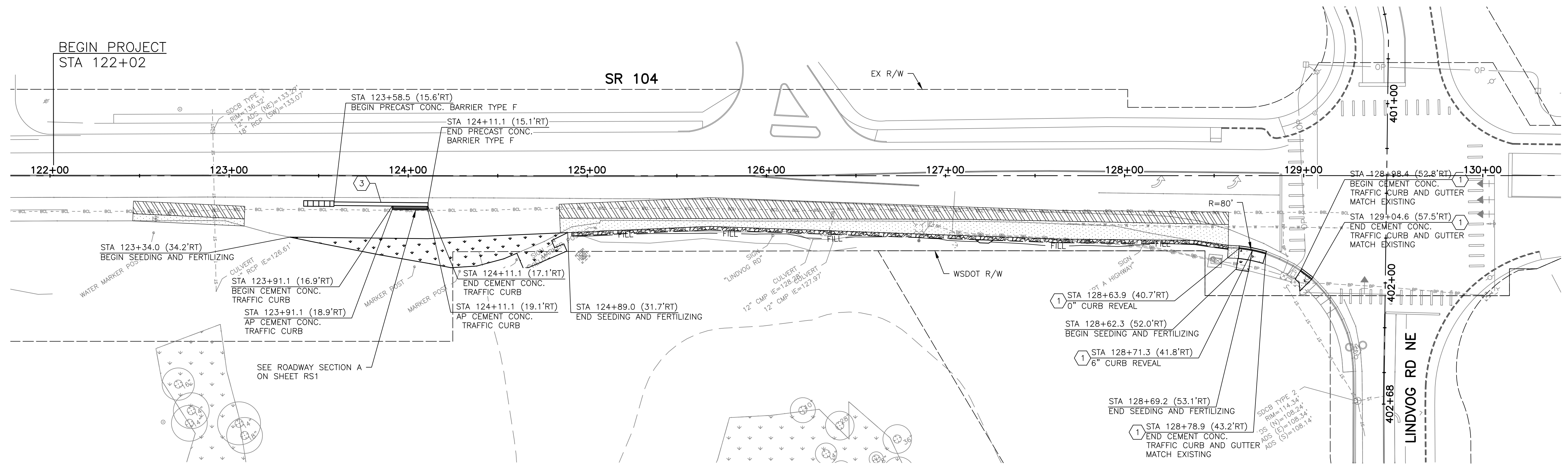
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TIME	Jan 31, 2025		
DATE	8:33am		
DESIGNED BY	T. CHEONG		
ENTERED BY	N. EATON		
CHECKED BY	P. BUCHANAN		
PROJ. ENGR.	T. CHEONG		
REGIONAL ADM.		REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER	20230139	
CONTRACT NO.	TA 7701	
	LOCATION NO.	



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO
KITSAP COUNTY	JANUARY 2025	UT1
DRAINAGE AND UTILITIES PLAN		SHEET 6 OF 28 SHEETS

SEC 26, T 27 N, R 2 E, W.M.



**CONSTRUCTION NOTES:**

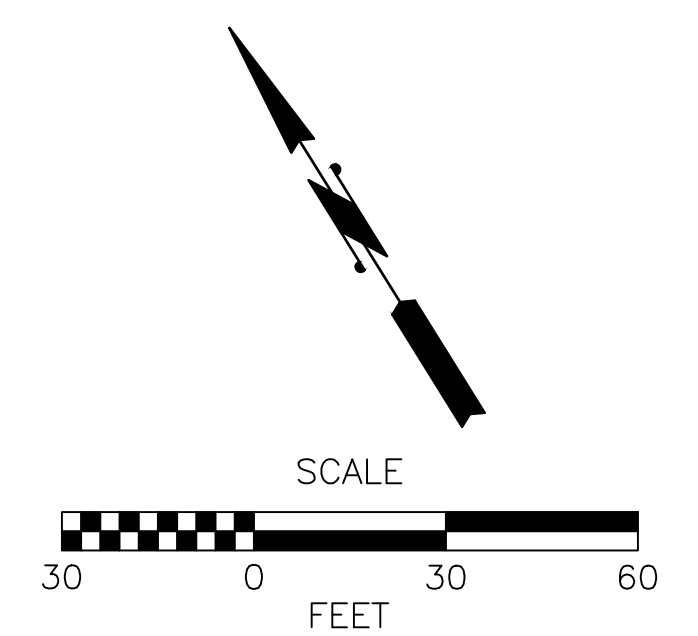
- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12.
- 2 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD. PLAN F-10.12.
- 3 CONSTRUCT PRECAST CONC. BARRIER TYPE F PER WSDOT STD. PLAN C-60.10.

**PAVING LEGEND:**

- 6" HMA CL. 1/2" PG 58H-22 PER WSDOT STD. SPECIFICATION 5-04 OVER 6" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- 2" HMA CL. 1/2" PG 58H-22 PER WSDOT STD. SPECIFICATION 5-04.
- SEEDING BY HAND PER SPECIAL PROVISION 8-02 OVER 2" FINE COMPOST OVER 8" TOPSOIL TYPE A PER WSDOT STD. SPECIFICATION 8-02.3(9)B.
- CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10.
- 12" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- 6" CEMENT CONC. PAVEMENT OVER 6" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- IMPACT ATTENUATOR, SEE SPECIAL PROVISION 8-17SP.
- FILL LINE

**GENERAL NOTES:**

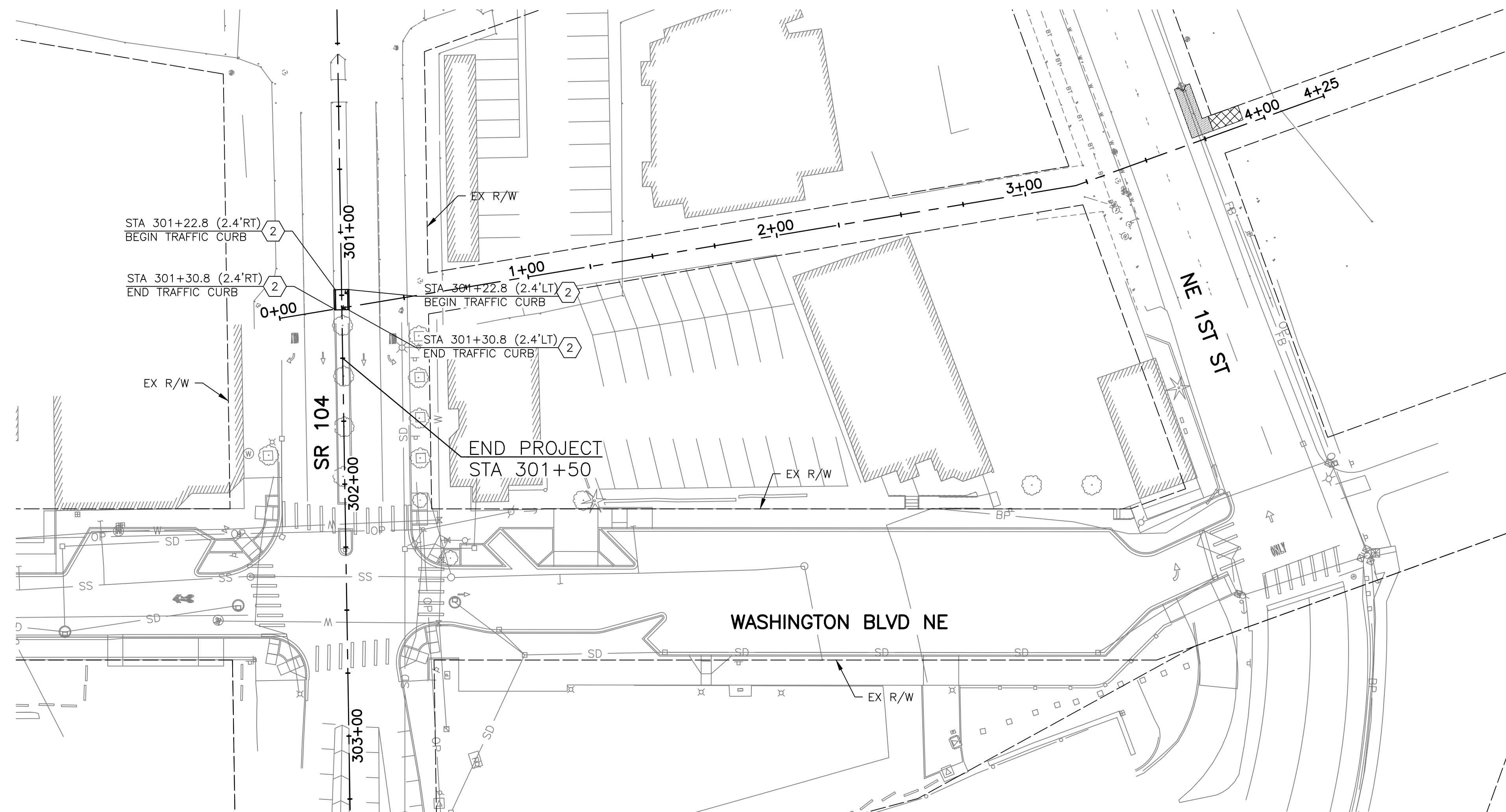
- 1. SEE SHEET UT1 FOR DRAIN CURB CUT LOCATIONS ALONG PROPOSED CURB LINE.



Jan 31, 2025 - 8:34am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RD1

FILE NAME X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RD1		REGION NO. 10		STATE WASH	FED.AID PROJ.NO. STBGUM-CRRSAA-0104(068)				SR 104	PLAN REF NO. RD1
TIME Jan 31, 2025	DATE 8:34am	DESIGNED BY K. WISEMAN	ENTERED BY N. EATON	CHECKED BY P. BUCHANAN	REGIONAL ADM.				REVISION	DATE
KITSAP COUNTY										JANUARY 2025
ROADWAY IMPROVEMENTS PLAN										

SEC 25, T 27 N, R 2 E, W.M.



CONSTRUCTION NOTES:

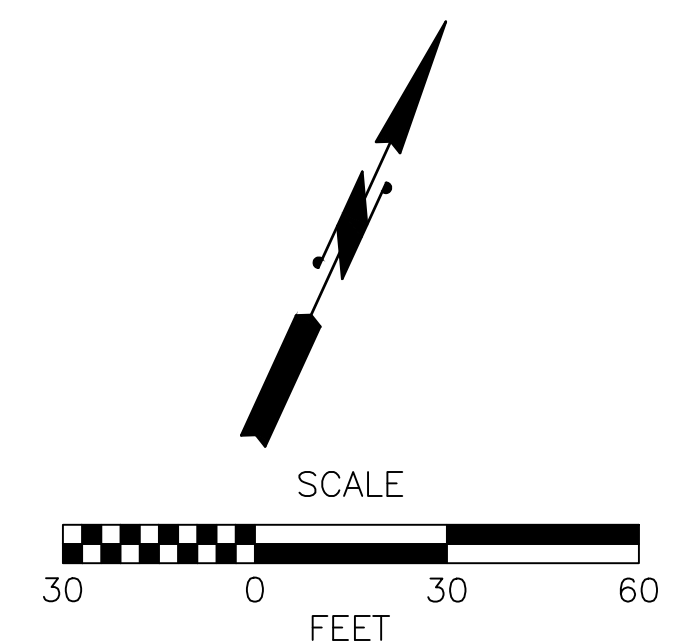
- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12.
- 2 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD. PLAN F-10.12.
- 3 CONSTRUCT PRECAST CONC. BARRIER TYPE F PER WSDOT STD. PLAN C-60.10-03.

PAVING LEGEND:

- 6" HMA CL. 1/2" PG 58H-22 PER WSDOT STD. SPECIFICATION 5-04 OVER 6" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- 2" HMA CL. 1/2" PG 58H-22 PER WSDOT STD. SPECIFICATION 5-04.
- SEEDING BY HAND PER SPECIAL PROVISION 8-02 OVER 2" FINE COMPOST OVER 8" TOPSOIL TYPE A PER WSDOT STD. SPECIFICATION 8-02.3(9)B.
- CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10.
- 12" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- 6" CEMENT CONC. PAVEMENT OVER 6" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- 12" CRUSHED SURFACING BASE COURSE PER WSDOT STD. SPECIFICATION 4-04 OVER APPROX 5' DEPTH GRAVEL BORROW OVER COMPACTED SUBGRADE PER METHOD B WSDOT STD. SPECIFICATION 2-03.3(14)C.
- IMPACT ATTENUATOR, SEE SPECIAL PROVISION 8-17SP.
- FILL LINE

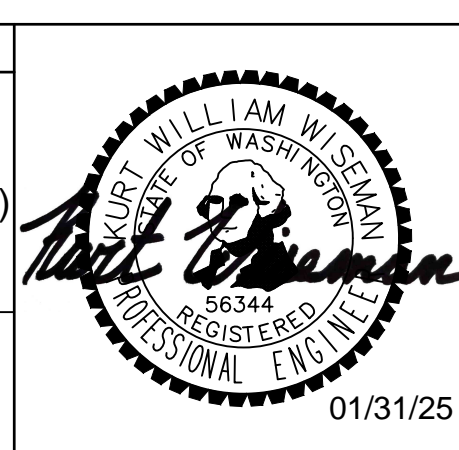
GENERAL NOTES:

- 1. SEE SHEET UT1 FOR DRAIN CURB CUT LOCATIONS ALONG PROPOSED CURB LINE.



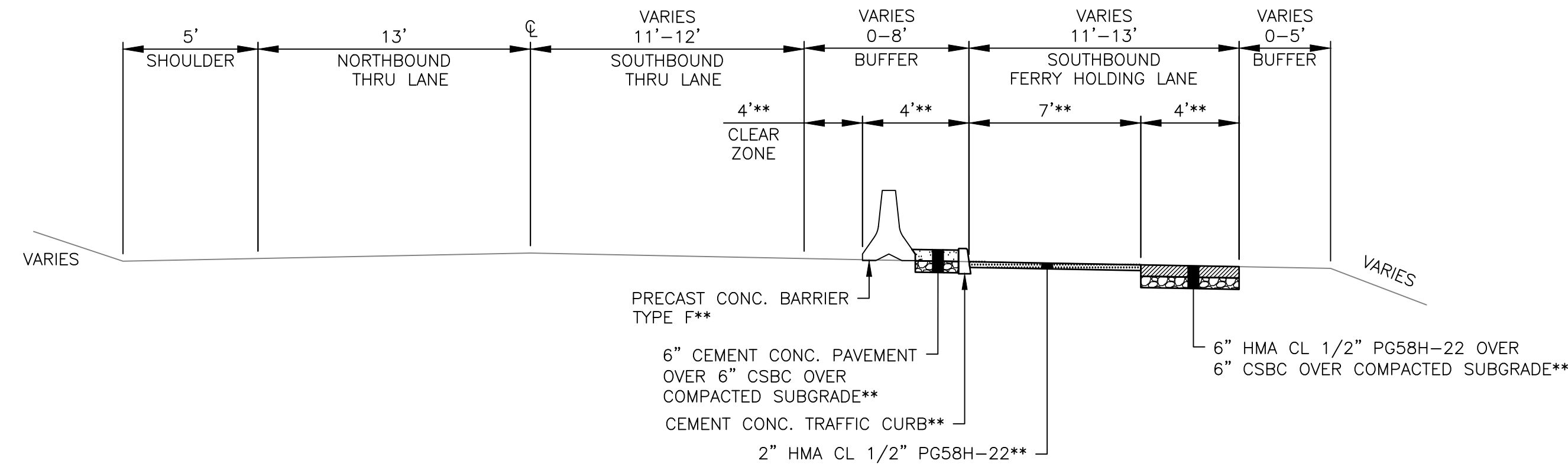
Jan 31, 2025 - 8:34am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RD2

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RD2		
TIME	Jan 31, 2025		
DATE	8:34am		
DESIGNED BY	K. WISEMAN	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY	--	JOB NUMBER	20230139
PROJ. ENGR.	P. BUCHANAN	CONTRACT NO.	TA 7701
REGIONAL ADM.		LOCATION NO.	
REVISION		DATE	BY



SR 104	PLAN REF NO	RD2
SR 104 HOLDING LANES ATMS	SHEET	8
KITSAP COUNTY	OF	28
ROADWAY IMPROVEMENTS PLAN	SHEETS	
	JANUARY 2025	

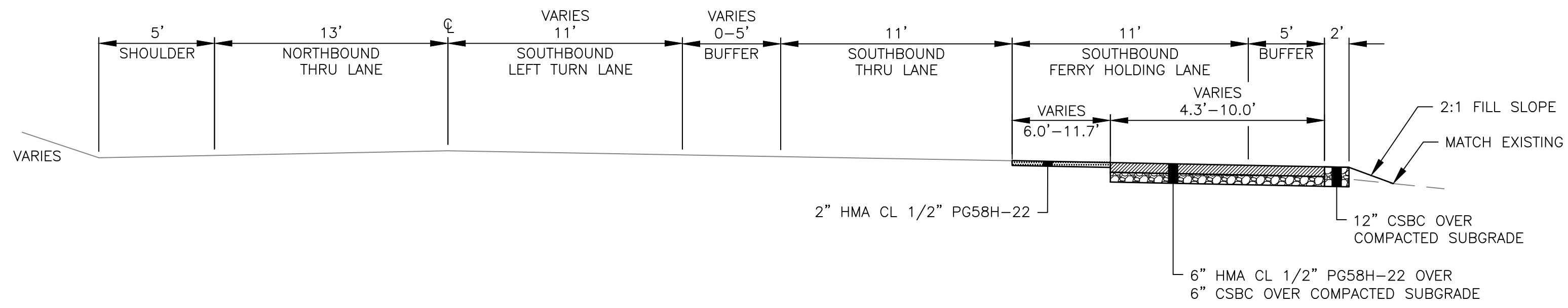




**ROADWAY SECTION A - SR 104**

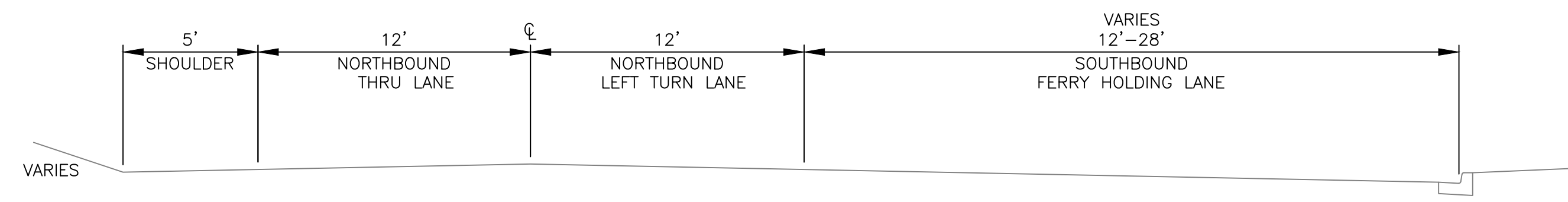
STA 122+02 TO STA 124+84  
M.P. 23.74 TO M.P. 23.79  
N.T.S.

\*\* AT LOCATION INDICATED IN PLAN VIEW



**ROADWAY SECTION B - SR 104**

STA 124+84 TO STA 128+58  
M.P. 23.79 TO M.P. 23.87  
N.T.S.



**ROADWAY SECTION C - SR 104**

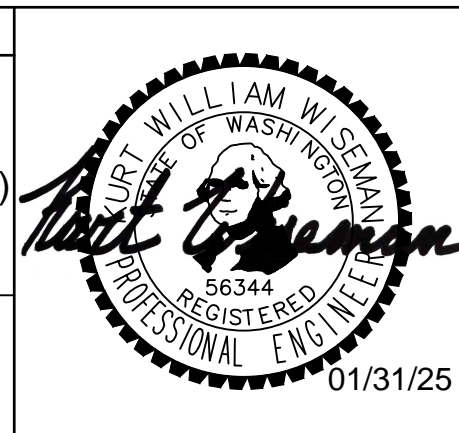
STA 129+87 TO STA 132+07  
M.P. 23.89 TO M.P. 23.93  
N.T.S.



Jan 31, 2025 - 8:34am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RS1

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - RD.dwg Layout Name: RS1			
TIME	Jan 31, 2025			
DATE	8:34am			
DESIGNED BY	K. WISEMAN			
ENTERED BY	N. EATON			
CHECKED BY				
PROJ. ENGR.	P. BUCHANAN			
REGIONAL ADM.		REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER	CONTRACT NO.	
20230139	TA 7701	
LOCATION NO.		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	RS1
KITSAP COUNTY	JANUARY 2025	SHEET	9
ROADWAY SECTIONS		OF	28
		SHEETS	

SEC 22, T 24 N, R 4 E, W.M.

GENERAL NOTES:

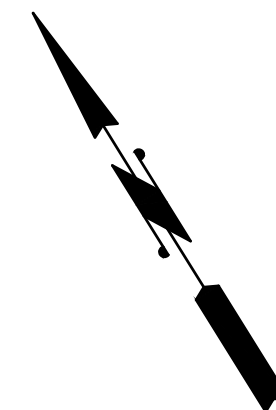
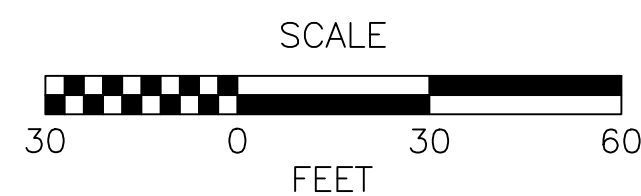
- SEE SHEET UT1 FOR DRAIN CURB CUT LOCATIONS ALONG PROPOSED CURB LINE.
- ALL PAVEMENT MARKING APPLICATIONS ARE TYPE D UNLESS OTHERWISE NOTED.

SIGN LEGEND:

- (X) - NEW SIGN
- XXR - REMOVE EXISTING SIGN
- (XX) (NEW LOCATION) EXISTING SIGN ASSEMBLY TO BE RELOCATED
- (XX) (EXISTING LOCATION)
- - NEW SIGN
- - EXISTING SIGN

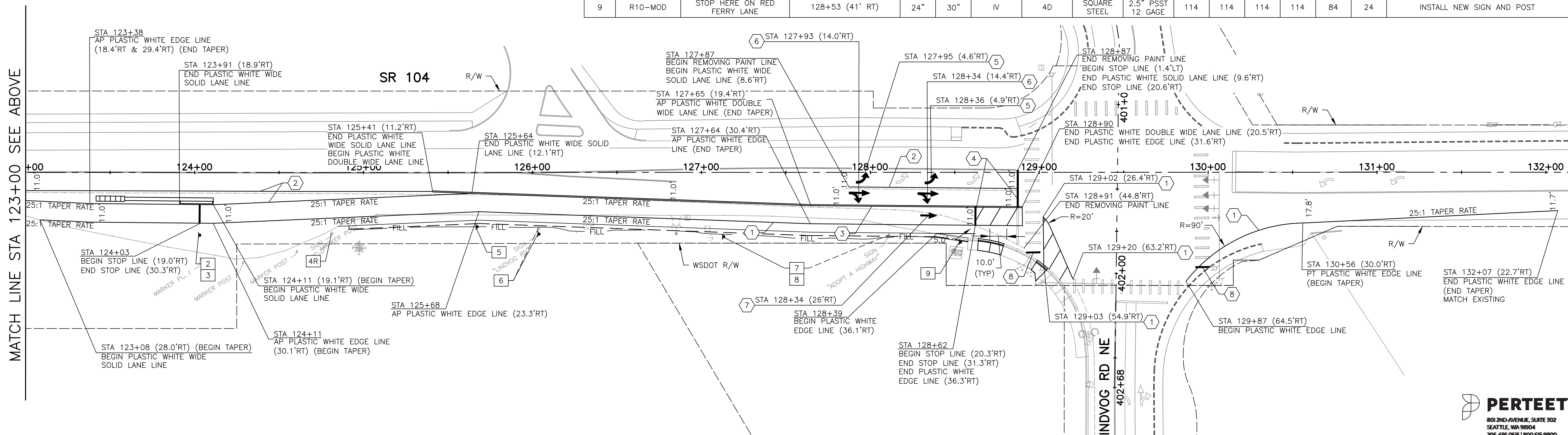
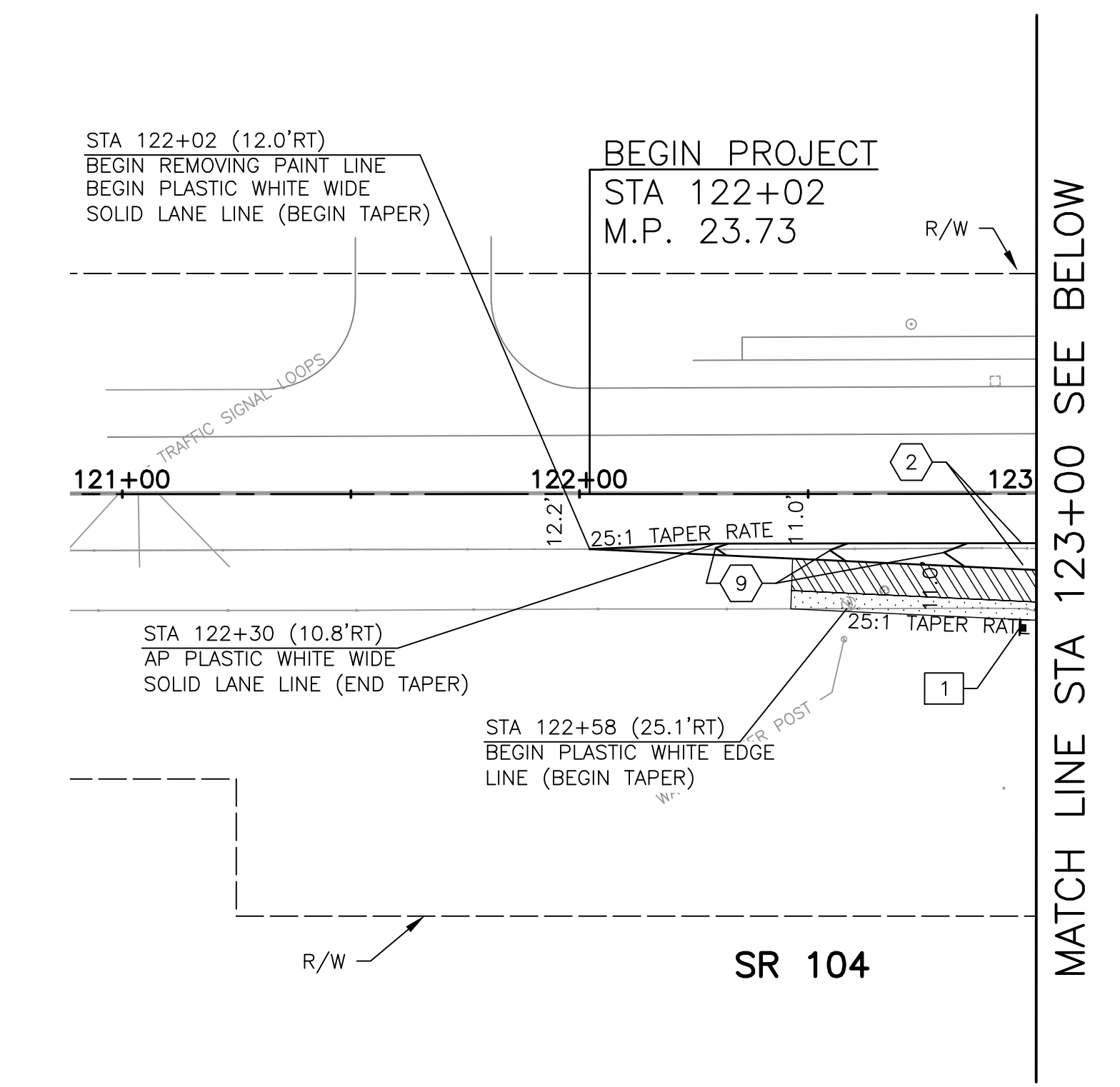
CONSTRUCTION NOTES:

- INSTALL PLASTIC WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
- INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
- INSTALL PLASTIC WHITE DOUBLE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10
- INSTALL STOP LINE PER WSDOT STD. PLAN M-24.60.
- INSTALL TYPE 2SL (LEFT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40.
- INSTALL TYPE 3SR (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40.
- INSTALL TYPE 1S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40.
- PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10.
- CHEVRON MARKING (3 @ 25' SPACING) PER WSDOT STD. PLAN M-2.20.



SIGN SPECIFICATIONS

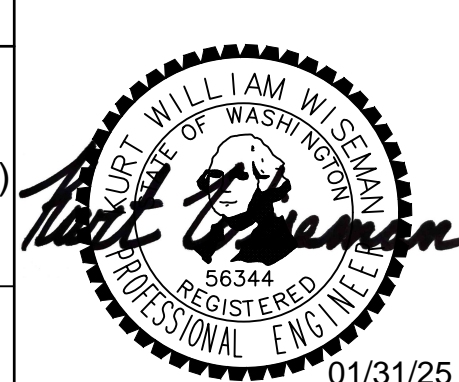
SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (OR MP)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
1	W3-1	[STOP AHEAD]	122+96 (29' RT)	30"	30"	IV	4D	SQUARE STEEL	2.5" PSST 12 GAGE	114	114	114	114	84	24	INSTALL NEW SIGN AND POST
2	R1-1	STOP	124+02 (37' RT)	36"	36"	IV	4D	SQUARE STEEL	2.5" PSST 12 GAGE	114	114	114	114	84	24	INSTALL NEW SIGN AND POST
3	R3-MOD	TAKE BOARDING PASS [LEFT ARROW]	124+02 (37' RT)	24"	12"	IV	4D	SQUARE STEEL	2.5" PSST 12 GAGE	114	114	114	114	84	24	INSTALL BELOW STOP SIGN
4R	R1-2	YIELD	124+81 (36' RT)	24"	24"	-	-	-	-	-	-	-	-	-	-	REMOVE EXISTING SIGN AND POST
5	R4-MOD	ILLEGAL TO CROSS DOUBLE WHITE LINE	125+66 (32' RT)	24"	30"	IV	4D	SQUARE STEEL	2.5" PSST 12 GAGE	114	114	114	114	84	24	INSTALL NEW SIGN AND POST
6	D3-301	LINDVOG RD	126+03 (36' RT)	60"	12"	-	-	-	-	-	-	-	84	24	RELOCATE EXISTING SIGN AND POST	
7	I6-901	ADOPT A HIGHWAY	127+13 (38' RT)	30"	36"	-	-	-	-	-	-	-	84	24	RELOCATE EXISTING SIGN AND POST	
8	I6-902	GREEN TIKI CANNIBIS CO.	127+13 (38' RT)	30"	12"	-	-	-	-	-	-	-	84	24	RELOCATE EXISTING SIGN AND POST	
9	R10-MOD	STOP HERE ON RED FERRY LANE	128+53 (41' RT)	24"	30"	IV	4D	SQUARE STEEL	2.5" PSST 12 GAGE	114	114	114	114	84	24	INSTALL NEW SIGN AND POST



X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - SI.dwg Layout Name: S11  
 nancy.eaton  
 Jan 31, 2025 - 8:35am

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - SI.dwg Layout Name: S11		
TIME	Jan 31, 2025		
DATE	8:35am		
DESIGNED BY	K. WISEMAN	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY		JOB NUMBER	20230139
PROJ. ENGR.	P. BUCHANAN	CONTRACT NO.	TA 7701
REGIONAL ADM.		LOCATION NO.	
REVISION		DATE	BY

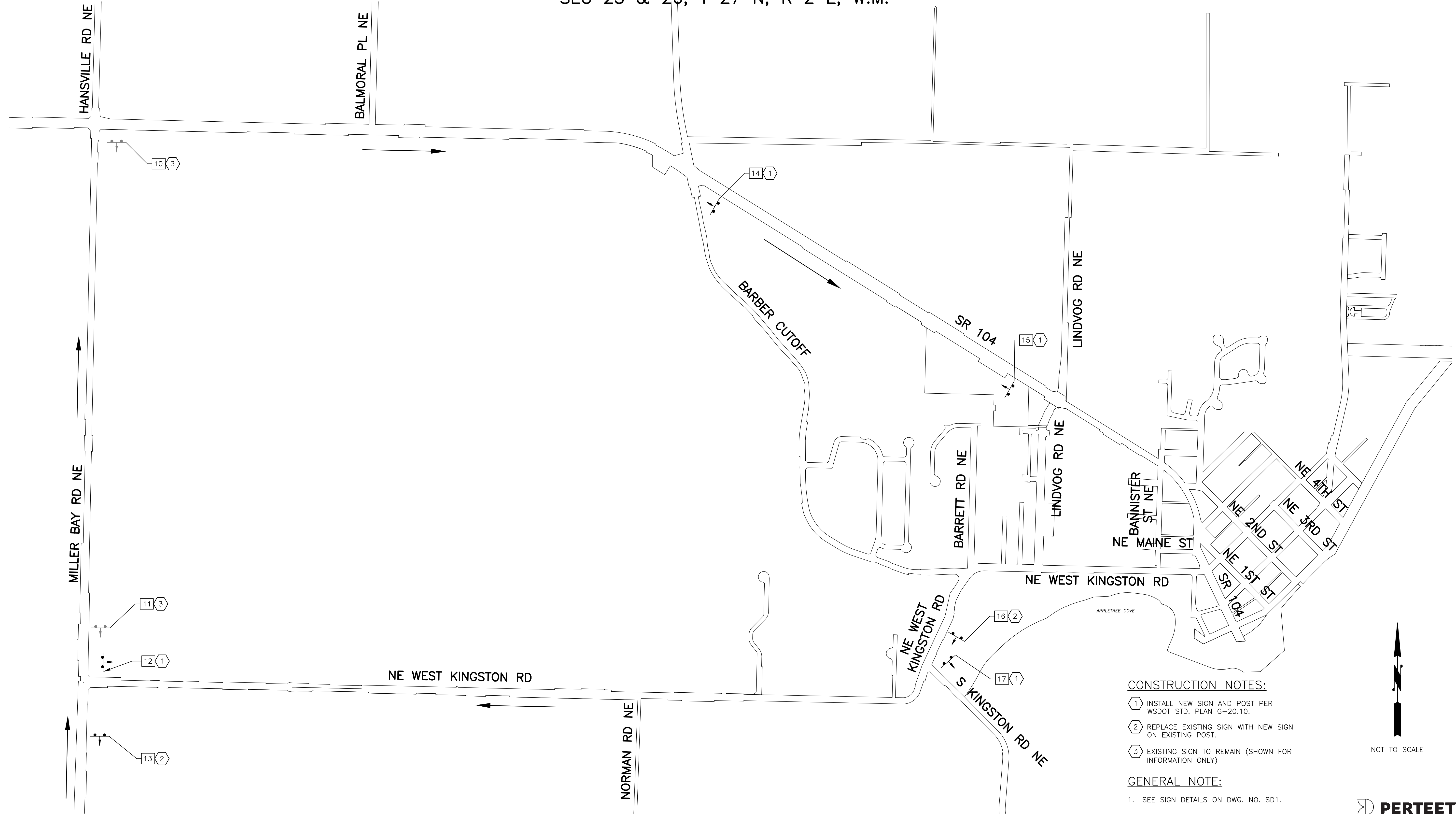
FED.AID PROJ.NO.  
STBGUM-CRRSAA-0104(068)



SR 104		PLAN REF NO	S11
SR 104 HOLDING LANES ATMS		SHEET	10
KITSAP COUNTY	JANUARY 2025	OF	28
CHANNELIZATION AND SIGNING PLAN		SHEETS	



SEC 25 & 26, T 27 N, R 2 E, W.M.

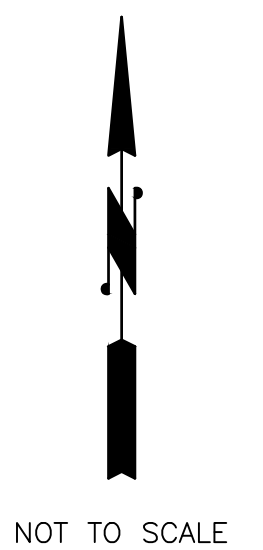


CONSTRUCTION NOTES:

- 1 INSTALL NEW SIGN AND POST PER WSDOT STD. PLAN G-20.10.
- 2 REPLACE EXISTING SIGN WITH NEW SIGN ON EXISTING POST.
- 3 EXISTING SIGN TO REMAIN (SHOWN FOR INFORMATION ONLY)

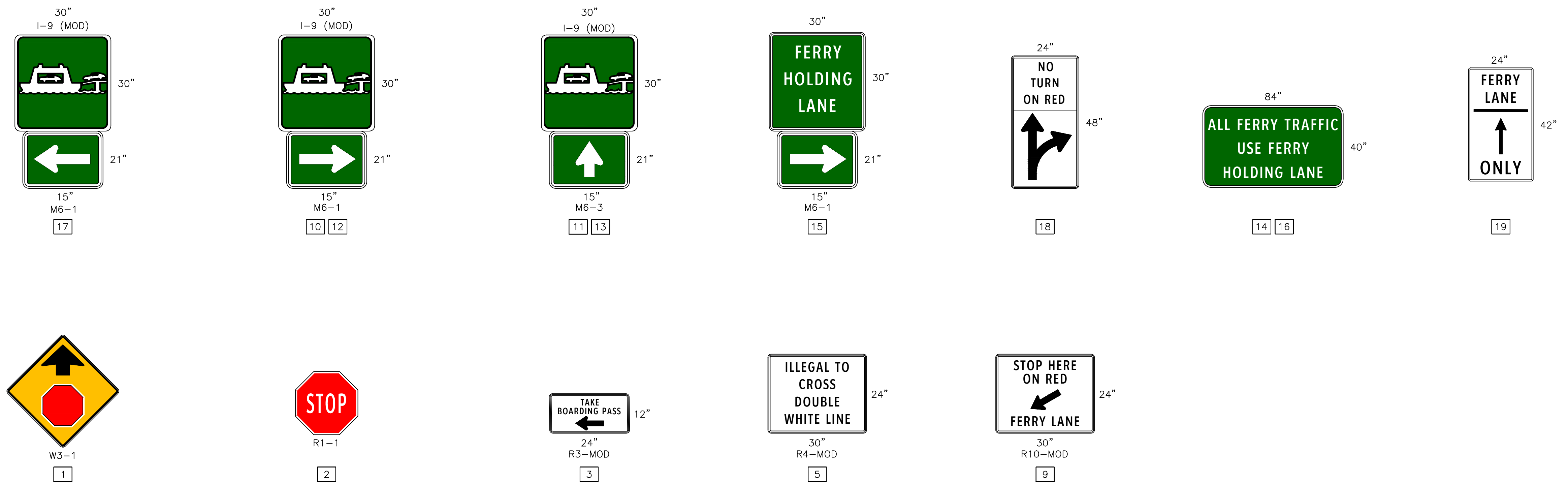
GENERAL NOTE:

- 1. SEE SIGN DETAILS ON DWG. NO. SD1.



<b>FILE NAME</b> X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - S12.dwg Layout Name: S12		<b>REGION NO.</b> 10		<b>STATE</b> WASH		<b>FED.AID PROJ.NO.</b> STBGUM-CRRSAA-0104(068)						<b>SR 104</b> <b>SR 104 HOLDING LANES ATMS</b>	<b>PLAN REF NO</b> <b>S12</b>						
<b>TIME</b> Jan 31, 2025		<b>JOB NUMBER</b> 20230139		<b>LOCATION NO.</b>		<b>REVISION</b>	<b>DATE</b>							<b>BY</b>	<b>Washington State Department of Transportation</b>	<b>Regional Signing Plan</b>	<b>KITSAP COUNTY</b>	<b>JANUARY 2025</b>	<b>SHEET 11 OF 28 SHEETS</b>
<b>DATE</b> 8:35am		<b>CONTRACT NO.</b> TA 7701																	
<b>DESIGNED BY</b> P. ETIEHADOLHAGH		<b>ENTERED BY</b> N. EATON		<b>CHECKED BY</b>		<b>PROJ. ENGR.</b> R. GULICK		<b>REGIONAL ADM.</b>											

Jan 31, 2025 - 8:35am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - S12.dwg Layout Name: S12



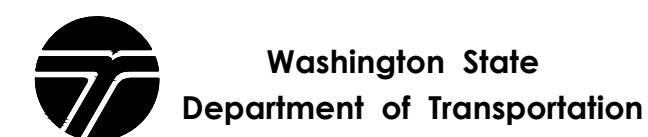
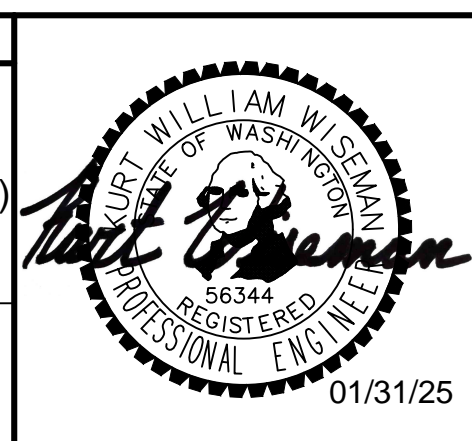
SIGN TABLE																
SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA OR MP LOCATION	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
10	I5-801, M6-1	STATIC	SR 104 MP 22.01 RT	30	30	-	-	-	-	-	-	-	-	-	-	EXISTING SIGN TO REMAIN
11	I5-801, M6-3	STATIC	MILLER BAY RD NORTH OF NE WEST KINGSTON RD	30	30	-	-	-	-	-	-	-	-	-	-	EXISTING SIGN TO REMAIN
12	I5-801, M6-1	STATIC	NE CORNER MILLER BAY RD NE AND NE WEST KINGSTON RD	30	30	IV	-	TIMBER	4x4	114	114			84	24	INSTALL NEW SIGN AND POST
13	SPECIAL, M6-1	STATIC	MILLER BAY RD SOUTH OF NE WEST KINGSTON RD	30	30	IV	4.5"	SQUARE STEEL	4x4	114	114			84	24	REPLACE EXISTING SIGN WITH NEW SIGN ON EXISTING POST.
14	SPECIAL	STATIC	SR 104 MP 23.12 RT	84	40	IV	4"	-	-	-	-			-	-	INSTALL NEW SIGN AND POST
15	SPECIAL	STATIC	SR 104 MP 23.80 RT	30	30	IV	5"	SQUARE STEEL	2.5 PSST 12 GAGE	114	114			84	24	INSTALL NEW SIGN AND POST
16	SPECIAL	STATIC	NEAR NE CORNER WEST KINGSTON RD AND S KINGSTON RD NE	84	40	IV	5"	SQUARE STEEL	2.5 PSST 12 GAGE	124	124			84	24	REPLACE EXISTING SIGN WITH NEW SIGN ON EXISTING POST.
17	I5-801, M6-1	STATIC	NE CORNER NE WEST KINGSTON RD AND S KINGSTON RD NE	30	30	IV	-	TIMBER	4x4	114	114			84	24	INSTALL NEW SIGN AND POST
18		STATIC	SE CORNER MASTARM SR140/LINDVOG	24	48	IV		-	-	-	-			-	-	INSTALL NEW SIGN ON EXISTING MASTARM
19		STATIC	SE CORNER MASTARM SR140/LINDVOG	24	42	IV		-	-	-	-			-	-	INSTALL NEW SIGN ON EXISTING MASTARM

NOTE: FOR SIGNS 1-9 SEE TABLE ON DWG. NO. S11



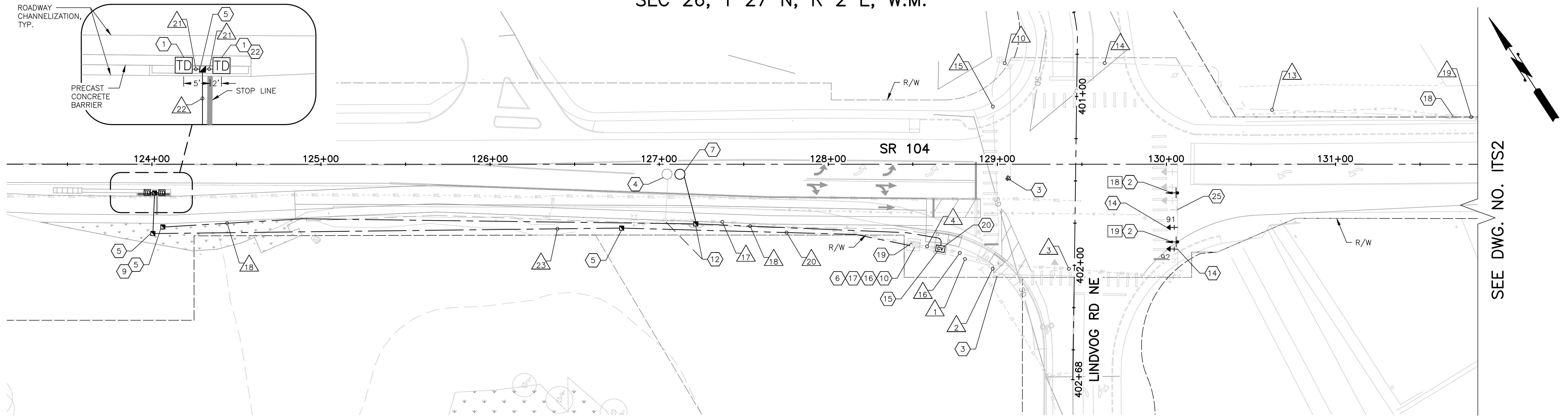
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TIME	Jan 31, 2025		
DATE	8:36am		
DESIGNED BY	P. ETIEHADOLHAGH		
ENTERED BY	N. EATON		
CHECKED BY			
PROJ. ENGR.	R. GULICK		
REGIONAL ADM.			
REVISION		DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER	20230139	
CONTRACT NO.	TA 7701	
LOCATION NO.		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	SD1
KITSAP COUNTY	JANUARY 2025	SHEET	12
SIGNING DETAILS		OF	28
		SHEETS	28

SEC 26, T 27 N, R 2 E, W.M.



SEE DWG. NO. ITS2

SIGNAL WIRING SCHEDULE

RUN #	RACEWAY CONDUIT SIZE	5C	CAT6	2C PPB	2CS	3CS	12 SMFO	6-PAIR INTER-CONNECT	#8	2CS DET	WTX	12 SMFO PRETERM CABLE	SERVICE #4
1	EX 4"	EX 4, EX 5, 1			EX 3, 1	EX 2			EX 1				
	EX 1.5"												
2	EX 3"	EX 2, EX 2											
	EX 3"	EX 3, EX 2, 1											
3	EX 1.5"				EX 3	EX 2							
	EX 1.5"								EX 2				
4	EX 4"	EX 4, EX 4						EX 1*		EX 1			
	EX 3"				EX 9	EX 2	1	EX 1*				1	
5	EX 2"				6			EX 1*					
	2"						1						
6	EX 1.5"						1	EX 1*					
	2"				6								
7	2"												
8	2"				6								
9	EX 1.5"						1	EX 1*					
	EX 2"												
10	EX 3"	EX 2, EX 2		EX 2		EX 2					1		
	EX 1.5"								EX 2				
12	EX STEEL 1.5"						1	EX 1*					
	1.5" SPARE												

SIGNAL WIRING SCHEDULE

RUN #	RACEWAY CONDUIT SIZE	5C	CAT6	2C PPB	2CS	3CS	12 SMFO	6-PAIR INTER-CONNECT	#8	2CS DET	WTX	12 SMFO PRETERM CABLE	SERVICE #4
13	EX 1.5"						1	EX 1*		EX 1			
	EX 1.5"								EX 2				
14	EX 3"	EX 4											
	EX 2"				EX 3		1	EX 1*					
	EX 1.5"								EX 2				
15	EX 4"	EX 8									1		
	EX 2"				EX 6	EX 2	1	EX 1*					
	EX 1.5"								EX 2				
16	EX 4"	EX 4, EX 4								EX 1	1		
	EX 3"				EX 9	EX 2	1	EX 1*					
17	EX 1.5"				EX 1*, 1								
	EX 1.5"								EX 2				
18	2"												
19	AERIAL						1	EX 1					
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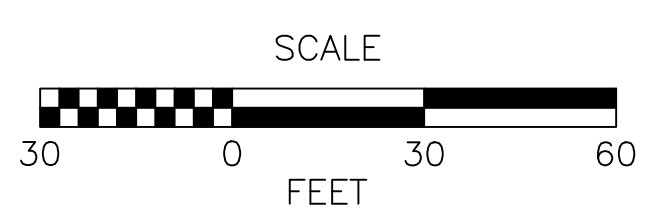
CONSTRUCTION NOTES:

- INSTALL NEW BOARDING PASS DISPENSER ON ISLAND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALL OVERHEAD SIGN PER WSDOT STD. PLAN G-30.10. SEE SIGN DETAIL DWG. NO. SD1.
- MOUNT WAVETRONIX ON EXISTING POLE. ORIENT WAVETRONIX DETECTOR TO DETECT VEHICLES AT FERRY HOLDING LANE STOP BAR.
- REMOVE EXISTING INDUCTION LOOP.
- INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10.
- INSTALL WAVETRONIX CLICK EQUIPMENT IN ACCORDANCE WITH SPECIAL PROVISIONS. COORDINATE WITH WSDOT FOR INSTALLATION LOCATION.
- INSTALL TYPE 3 INDUCTION LOOPS PER WSDOT STD. PLAN J-50.12 IN CENTER OF LANE.
- INSTALL NEW CONDUIT BY DIRECTIONAL BORE METHOD.
- JUNCTION BOX AND ASSOCIATED CONDUIT RESERVED FOR FUTURE WSDOT ELECTRONIC SIGNING.
- INSTALL NEW RS900-HI-D-L2-L2-00 RUGGEDCOM ETHERNET SWITCH IN EXISTING CABINET. INSTALL IN LOCATION OF EXISTING SWITCH.
- CONNECT TO EXISTING JUNCTION BOX.
- RELOCATE EXISTING JUNCTION BOX AND ASSOCIATED CONDUIT TO THE PROPOSED LOCATION.
- RELOCATE EXISTING JUNCTION BOX TO PROPOSED LOCATION AND INTERCEPT ASSOCIATED CONDUIT.
- INSTALL NEW SIGNAL HEAD WITH ARM MOUNT TYPE N ON EXISTING MASTARM PER WSDOT STD. PLAN J-75.20. SEE DWG. NO. ITSD2 FOR SIGNAL DISPLAY AND MOUNTING TYPES.
- INSTALL CABLE VAULT PER WSDOT STD PLAN J-90.20 AND INTERCEPT EXISTING COMMUNICATION CONDUIT.
- INSTALL NEW FIBER TERMINATION PANEL IN EXISTING CABINET. PRE-TERMINATED WALL MOUNT 12-PORT.
- REMOVE AND SALVAGE EXISTING RUGGEDCOMM ETHERNET SWITCH IN EXISTING CABINET.
- TRANSITION UNDERGROUND FIBER CABLE TO AERIAL FIBER CABLE ON EXISTING POLE.
- ADD CIRCUIT TO EXISTING SERVICE TO POWER NEW BOARDING PASS DISPENSERS. COORDINATE WITH WSDOT OLYMPIC REGION SIGNAL SHOP.
- INSTALL NEW FIBER SPLICING ENCLOSURE. SPLICE 1-12SMFO CABLE TO PRE-TERMINATED CABLE AS SHOWN IN THE DETAILS ON DWG. NO. ITSD1.
- REMOVE EXISTING TYPE 1 AND INSTALL NEW CABLE VAULT PER WSDOT STD. PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.

- INSTALL BOARDING PASS DISPENSER ON MANUFACTURER FURNISHED 30-INCH RISER.
- INSTALL NEW 1-12 SMFO CABLE TO CABINET USING CONDUIT THAT EXISTING INTERCONNECT CABLE IS VACATING.
- TERMINATE NEW LOOP LEAD-IN CABLES IN EXISTING TRAFFIC SIGNAL CABINET. COORDINATE WITH WSDOT ENGINEER FOR TERMINATION LOCATIONS.
- RELOCATE EXISTING STREET NAME SIGN TO LOCATION SHOWN ON SHEET ITS05.
- REMOVE EXISTING TYPE 1 JUNCTION BOX AND INSTALL CABLE VAULT WITH HEAVY DUTY LID PER WSDOT STD PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.

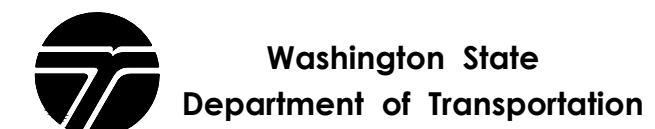
GENERAL NOTES:

- UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL WORK SHALL BE IN CONFORMANCE WITH 2024 STATE OF WASHINGTON STANDARD PLANS AND SPECIFICATIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
- ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS, LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL PROVIDE EXACT LOCATIONS. SEE WSDOT STANDARD SPECIFICATION 8-20.3(5)D AND WSDOT STD. PLANS J-10, J-40.10, AND J-40-30.
- FOR TRENCHING AND RESTORATION OF PROPOSED CONDUIT SEE CONDUIT TRENCH DETAIL ON DWG. NO. ITS03.
- ALL NEW CONDUIT TO BE INSTALLED WILL BE SCH. 80 PVC CONDUIT UNLESS SPECIFIED OTHERWISE IN THE WIRE NOTES.
- "\*" DENOTES CONDUCTOR TO BE REMOVED AT TIME OF CONSTRUCTION.
- ALL NEW TYPE #1, 2, AND 8 JUNCTION BOXES SHALL HAVE A SECURITY COLLAR AROUND THEM.
- ALL SPARE CONDUITS SHALL HAVE A GROUND WIRE AND PULL STRING.
- ALL CONDUITS SHALL HAVE A GROUND WIRE IN ACCORDANCE WITH WSDOT ROADSIDE POWER DISTRIBUTION REQUIREMENTS.



Jan 31, 2025 - 8:36am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139-ITS.dwg Layout Name: ITS1

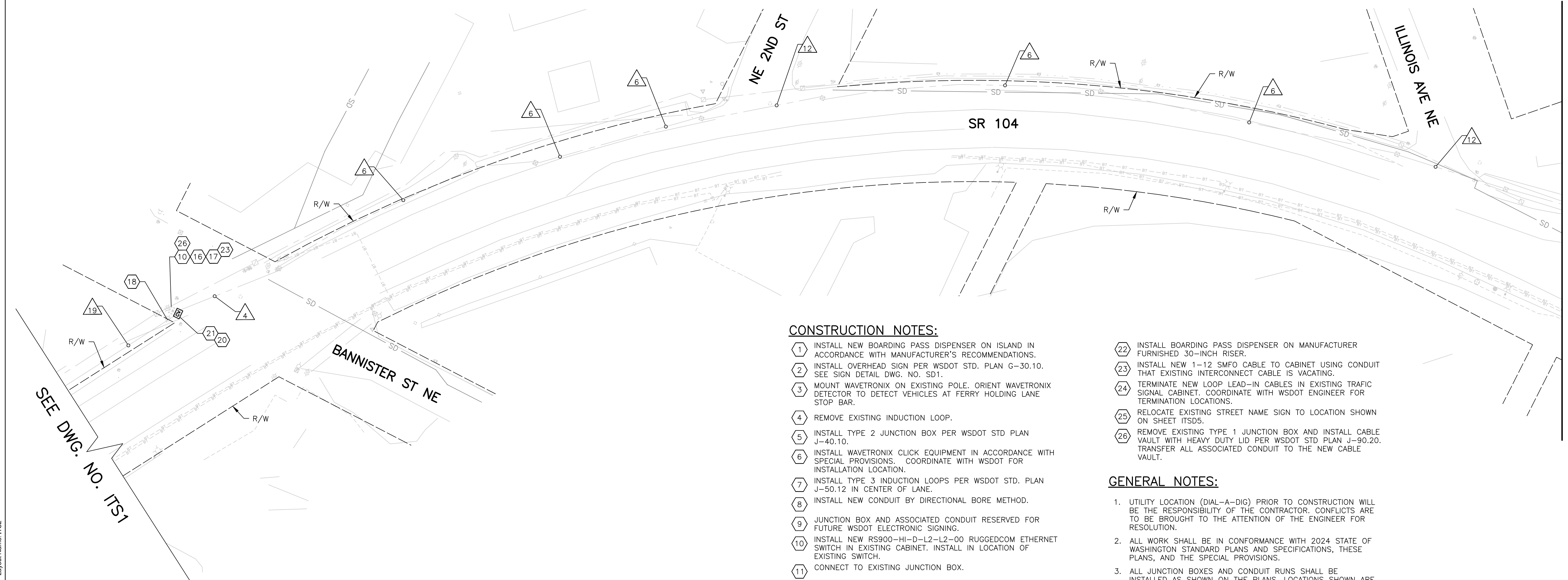
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DATE	8:36am		
DESIGNED BY	P. ETIEHADOLHAGH	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY		FED.AID PROJ.NO.	STBGUM-CRRSAA-0104(068)
PROJ. ENGR.	R. GULICK	JOB NUMBER	20230139
REGIONAL ADM.		CONTRACT NO.	TA 7701
REVISION		LOCATION NO.	
DATE		BY	



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	ITS1
KITSAP COUNTY	JANUARY 2025	SHEET	13
ITS PLAN		OF	28
		SHEETS	



SEC 25 & 26, T 27 N, R 2 E, W.M.



MATCHLINE  
SEE DWG. NO. ITS3

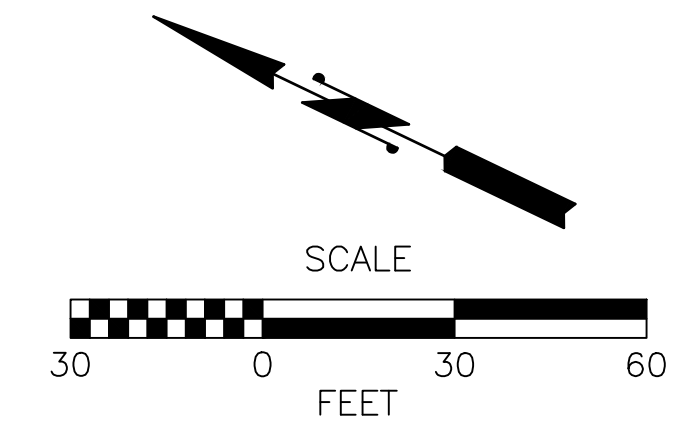
**CONSTRUCTION NOTES:**

- 1 INSTALL NEW BOARDING PASS DISPENSER ON ISLAND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2 INSTALL OVERHEAD SIGN PER WSDOT STD. PLAN G-30.10. SEE SIGN DETAIL DWG. NO. SD1.
- 3 MOUNT WAVETRONIX ON EXISTING POLE. ORIENT WAVETRONIX DETECTOR TO DETECT VEHICLES AT FERRY HOLDING LANE STOP BAR.
- 4 REMOVE EXISTING INDUCTION LOOP.
- 5 INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10.
- 6 INSTALL WAVETRONIX CLICK EQUIPMENT IN ACCORDANCE WITH SPECIAL PROVISIONS. COORDINATE WITH WSDOT FOR INSTALLATION LOCATION.
- 7 INSTALL TYPE 3 INDUCTION LOOPS PER WSDOT STD. PLAN J-50.12 IN CENTER OF LANE.
- 8 INSTALL NEW CONDUIT BY DIRECTIONAL BORE METHOD.
- 9 JUNCTION BOX AND ASSOCIATED CONDUIT RESERVED FOR FUTURE WSDOT ELECTRONIC SIGNING.
- 10 INSTALL NEW RS900-HI-D-L2-L2-00 RUGGEDCOM ETHERNET SWITCH IN EXISTING CABINET. INSTALL IN LOCATION OF EXISTING SWITCH.
- 11 CONNECT TO EXISTING JUNCTION BOX.
- 12 RELOCATE EXISTING JUNCTION BOX AND ASSOCIATED CONDUIT TO THE PROPOSED LOCATION.
- 13 RELOCATE EXISTING JUNCTION BOX TO PROPOSED LOCATION AND INTERCEPT ASSOCIATED CONDUIT.
- 14 INSTALL NEW SIGNAL HEAD WITH ARM MOUNT TYPE N ON EXISTING MASTARM PER WSDOT STD. PLAN J-75.20. SEE DWG. NO. ITS2 FOR SIGNAL DISPLAY AND MOUNTING TYPES.
- 15 INSTALL CABLE VAULT PER WSDOT STD PLAN J-90.20 AND INTERCEPT EXISTING COMMUNICATION CONDUIT.
- 16 INSTALL NEW FIBER TERMINATION PANEL IN EXISTING CABINET. PRE-TERMINATED WALL MOUNT 12-PORT.
- 17 REMOVE AND SALVAGE EXISTING RUGGEDCOMM ETHERNET SWITCH IN EXISTING CABINET.
- 18 TRANSITION UNDERGROUND FIBER CABLE TO AERIAL FIBER CABLE ON EXISTING POLE.
- 19 ADD CIRCUIT TO EXISTING SERVICE TO POWER NEW BOARDING PASS DISPENSERS. COORDINATE WITH WSDOT OLYMPIC REGION SIGNAL SHOP.
- 20 INSTALL NEW FIBER SPLICING ENCLOSURE. SPLICE 1-12SMFO CABLE TO PRE-TERMINATED CABLE AS SHOWN IN THE DETAILS ON DWG. NO. ITS2.
- 21 REMOVE EXISTING TYPE 1 AND INSTALL NEW CABLE VAULT PER WSDOT STD. PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.

- 22 INSTALL BOARDING PASS DISPENSER ON MANUFACTURER FURNISHED 30-INCH RISER.
- 23 INSTALL NEW 1-12 SMFO CABLE TO CABINET USING CONDUIT THAT EXISTING INTERCONNECT CABLE IS VACATING.
- 24 TERMINATE NEW LOOP LEAD-IN CABLES IN EXISTING TRAFFIC SIGNAL CABINET. COORDINATE WITH WSDOT ENGINEER FOR TERMINATION LOCATIONS.
- 25 RELOCATE EXISTING STREET NAME SIGN TO LOCATION SHOWN ON SHEET ITS5.
- 26 REMOVE EXISTING TYPE 1 JUNCTION BOX AND INSTALL CABLE VAULT WITH HEAVY DUTY LID PER WSDOT STD PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.

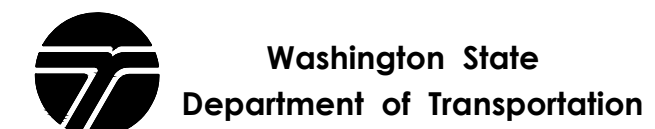
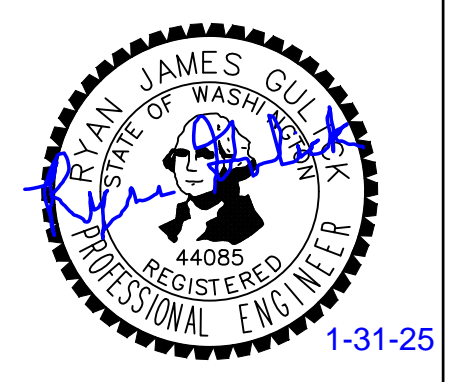
**GENERAL NOTES:**

1. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. ALL WORK SHALL BE IN CONFORMANCE WITH 2024 STATE OF WASHINGTON STANDARD PLANS AND SPECIFICATIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
3. ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS, LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL PROVIDE EXACT LOCATIONS. SEE WSDOT STANDARD SPECIFICATION 8-20.3(5)D AND WSDOT STD. PLANS J-10, J-40.10, AND J-40-30.
4. FOR TRENCHING AND RESTORATION OF PROPOSED CONDUIT SEE CONDUIT TRENCH DETAIL ON DWG. NO. ITS3.
5. ALL NEW CONDUIT TO BE INSTALLED WILL BE SCH. 80 PVC CONDUIT UNLESS SPECIFIED OTHERWISE IN THE WIRE NOTES.
6. "\*" DENOTES CONDUCTOR TO BE REMOVED AT TIME OF CONSTRUCTION.
7. ALL NEW TYPE #1, 2, AND 8 JUNCTION BOXES SHALL HAVE A SECURITY COLLAR AROUND THEM.
8. ALL SPARE CONDUITS SHALL HAVE A GROUND WIRE AND PULL STRING.
9. ALL CONDUITS SHALL HAVE A GROUND WIRE IN ACCORDANCE WITH WSDOT ROADSIDE POWER DISTRIBUTION REQUIREMENTS.



Jan 31, 2025 - 8:36am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITS.dwg Layout Name: ITS2

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DATE	8:36am	STATE	WASH
DESIGNED BY	P. ETIEHADOLHAGH	FED.AID PROJ.NO.	STBGUM-CRRSAA-0104(068)
ENTERED BY	N. EATON	JOB NUMBER	20230139
CHECKED BY		CONTRACT NO.	TA 7701
PROJ. ENGR.	R. GULICK	LOCATION NO.	
REGIONAL ADM.		REVISION	DATE BY



SR 104		PLAN REF NO
SR 104 HOLDING LANES ATMS		ITS2
KITSAP COUNTY	JANUARY 2025	SHEET 14 OF 28 SHEETS
ITS PLAN		

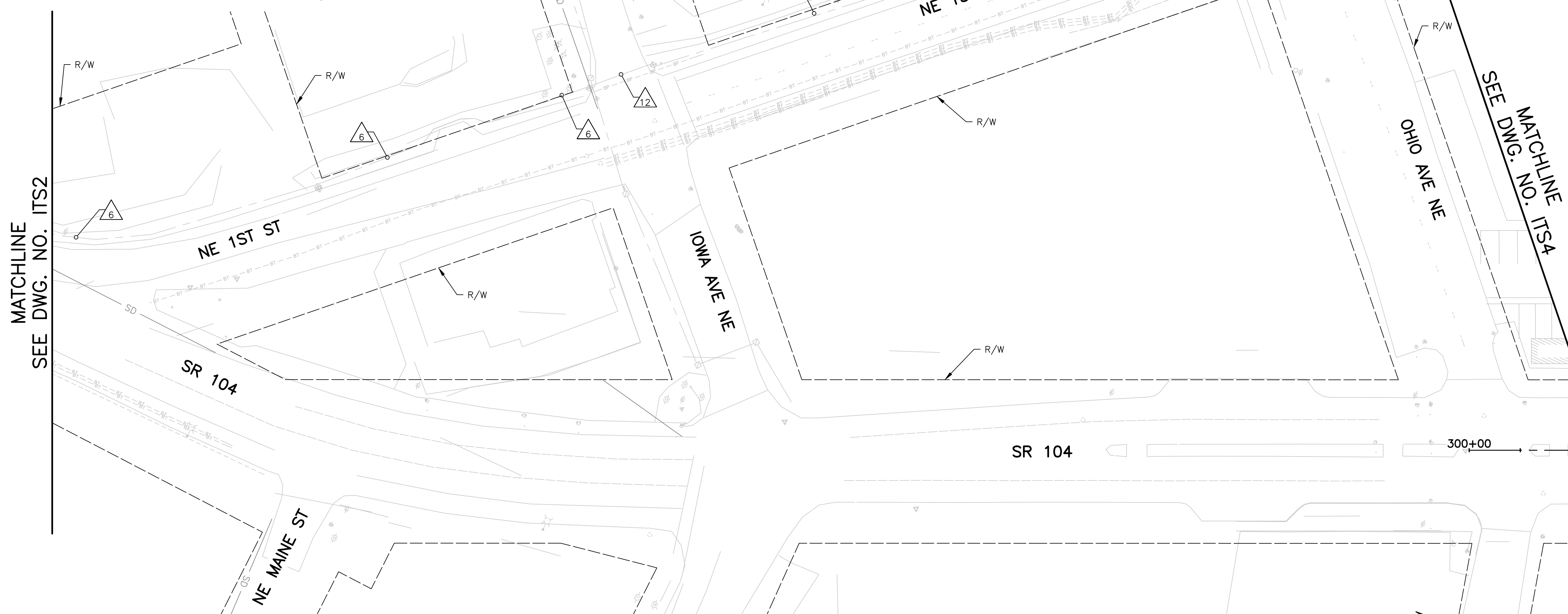
SEC 25, T 27 N, R 2 E, W.M.

**GENERAL NOTES:**

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- ALL CONDUITS SHALL HAVE A GROUND WIRE IN ACCORDANCE WITH WSDOT ROADSIDE POWER DISTRIBUTION REQUIREMENTS.

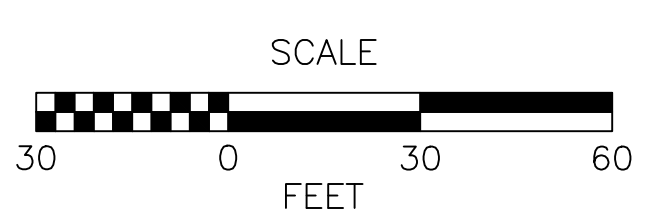
**CONSTRUCTION NOTES:**

- INSTALL NEW BOARDING PASS DISPENSER ON ISLAND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALL OVERHEAD SIGN PER WSDOT STD. PLAN G-30.10. SEE SIGN DETAIL DWG. NO. SD1.
- MOUNT WAVETRONIX ON EXISTING POLE. ORIENT WAVETRONIX DETECTOR TO DETECT VEHICLES AT FERRY HOLDING LANE STOP BAR.
- REMOVE EXISTING INDUCTION LOOP.
- INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10.
- INSTALL WAVETRONIX CLICK EQUIPMENT IN ACCORDANCE WITH SPECIAL PROVISIONS. COORDINATE WITH WSDOT FOR INSTALLATION LOCATION.
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- INSTALL NEW RS900-HI-D-L2-L2-00 RUGGEDCOM ETHERNET SWITCH IN EXISTING CABINET. INSTALL IN LOCATION OF EXISTING SWITCH.
- CONNECT TO EXISTING JUNCTION BOX.
- RELOCATE EXISTING JUNCTION BOX AND ASSOCIATED CONDUIT TO THE PROPOSED LOCATION.
- RELOCATE EXISTING JUNCTION BOX TO PROPOSED LOCATION AND INTERCEPT ASSOCIATED CONDUIT.
- INSTALL NEW SIGNAL HEAD WITH ARM MOUNT TYPE N ON EXISTING MASTARM PER WSDOT STD. PLAN J-75.20. SEE DWG. NO. ITS2 FOR SIGNAL DISPLAY AND MOUNTING TYPES.
- INSTALL CABLE VAULT PER WSDOT STD PLAN J-90.20 AND INTERCEPT EXISTING COMMUNICATION CONDUIT.
- INSTALL NEW FIBER TERMINATION PANEL IN EXISTING CABINET. PRE-TERMINATED WALL MOUNT 12-PORT.
- REMOVE AND SALVAGE EXISTING RUGGEDCOMM ETHERNET SWITCH IN EXISTING CABINET.
- TRANSITION UNDERGROUND FIBER CABLE TO AERIAL FIBER CABLE ON EXISTING POLE.
- ADD CIRCUIT TO EXISTING SERVICE TO POWER NEW BOARDING PASS DISPENSERS. COORDINATE WITH WSDOT OLYMPIC REGION SIGNAL SHOP.
- INSTALL NEW FIBER SPLICING ENCLOSURE. SPLICE 1-12SMFO CABLE TO PRE-TERMINATED CABLE AS SHOWN IN THE DETAILS ON DWG. NO. ITS1.
- REMOVE EXISTING TYPE 1 AND INSTALL NEW CABLE VAULT PER WSDOT STD. PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.
- INSTALL BOARDING PASS DISPENSER ON MANUFACTURER FURNISHED 30-INCH RISER.
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- TERMINATE NEW LOOP LEAD-IN CABLES IN EXISTING TRAFFIC SIGNAL CABINET. COORDINATE WITH WSDOT ENGINEER FOR TERMINATION LOCATIONS.
- RELOCATE EXISTING STREET NAME SIGN TO LOCATION SHOWN ON SHEET ITS5.
- REMOVE EXISTING TYPE 1 JUNCTION BOX AND INSTALL CABLE VAULT WITH HEAVY DUTY LID PER WSDOT STD PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.



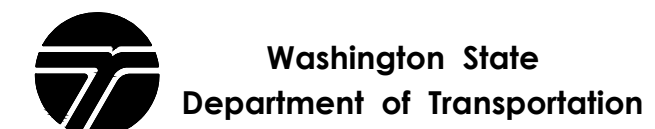
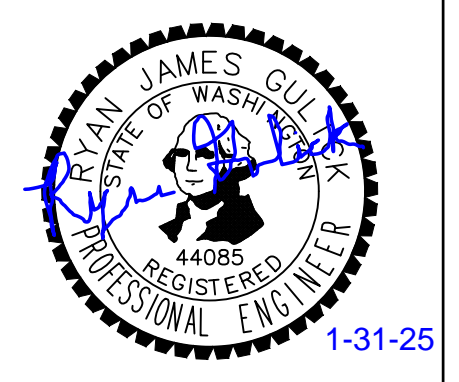
MATCHLINE  
SEE DWG. NO. ITS2

SEE DWG. NO. ITS4  
MATCHLINE



Jan 31, 2025 - 8:36am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITS.dwg Layout Name: ITS3

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TIME	Jan 31, 2025				
DATE	8:36am				
DESIGNED BY	P. ETIEHADOLHAGH	REGION NO.	10	STATE	WASH
ENTERED BY	N. EATON	JOB NUMBER	20230139		
CHECKED BY		CONTRACT NO.	TA 7701		
PROJ. ENGR.	R. GULICK	LOCATION NO.			
REGIONAL ADM.		REVISION	DATE	BY	



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	ITS3
KITSAP COUNTY	JANUARY 2025	SHEET	15
ITS PLANS		OF	28
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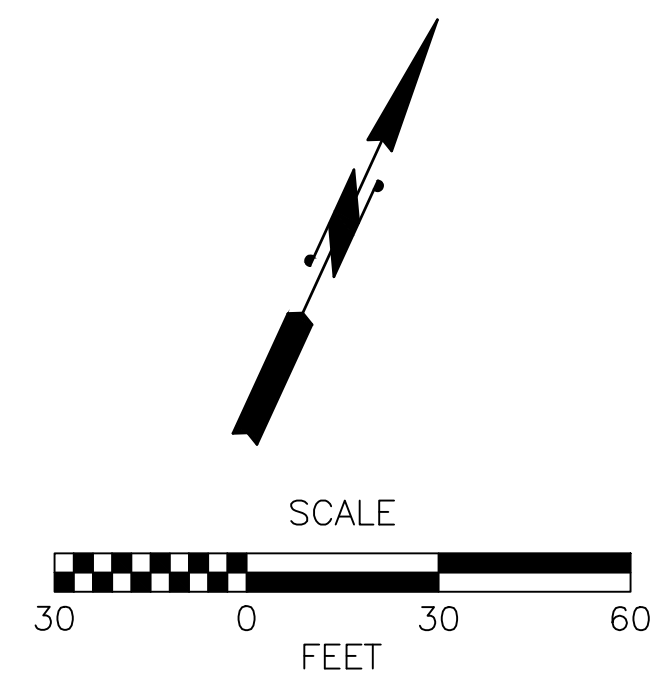
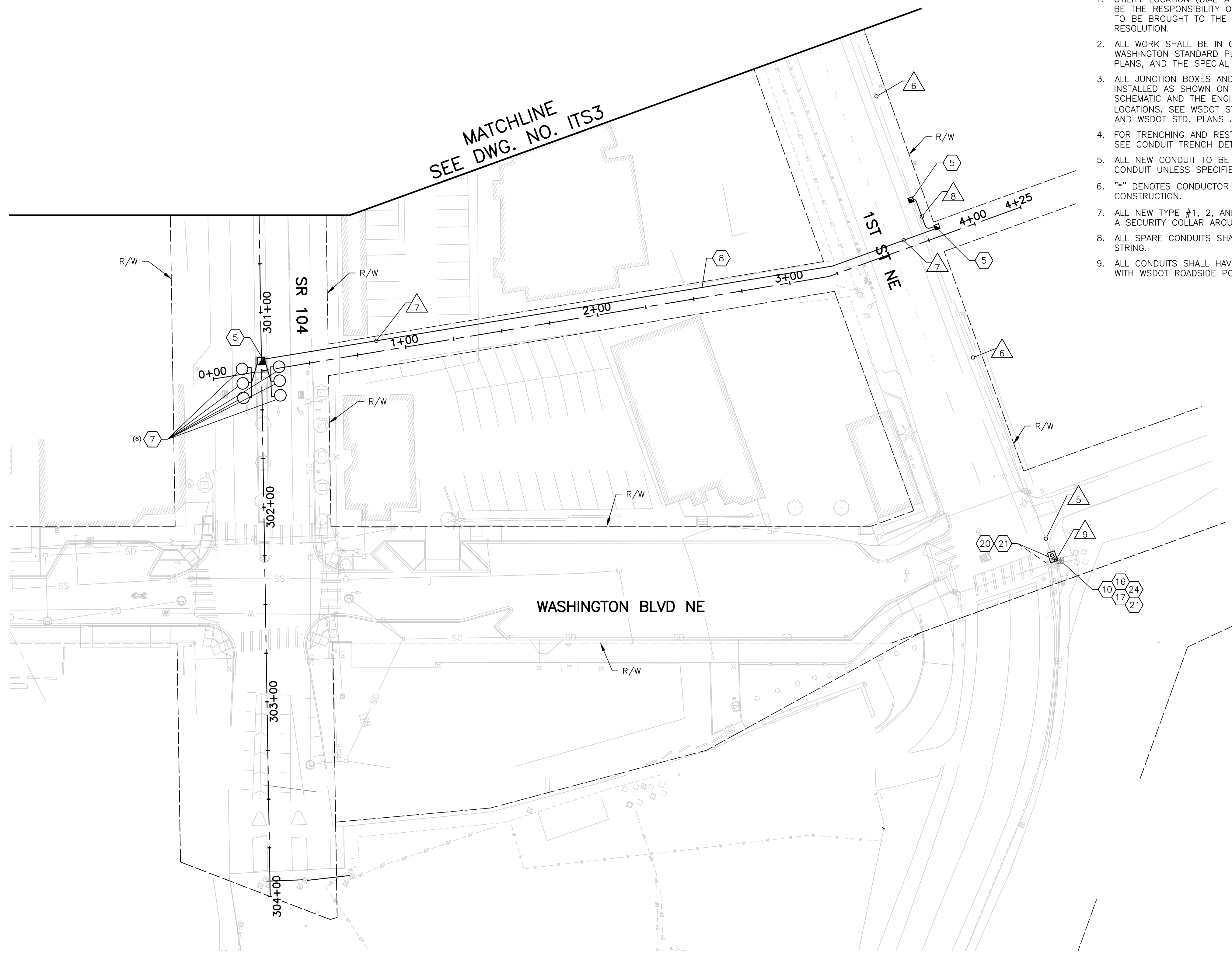
SEC 25, T 27 N, R 2 E, W.M.

GENERAL NOTES:

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- FOR TRENCHING AND RESTORATION OF PROPOSED CONDUIT SEE CONDUIT TRENCH DETAIL ON DWG. NO. ITS3.
- ALL NEW CONDUIT TO BE INSTALLED WILL BE SCH. 80 PVC CONDUIT UNLESS SPECIFIED OTHERWISE IN THE WIRE NOTES.
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- ALL NEW TYPE #1, 2, AND 8 JUNCTION BOXES SHALL HAVE A SECURITY COLLAR AROUND THEM.
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- ALL CONDUITS SHALL HAVE A GROUND WIRE IN ACCORDANCE WITH WSDOT ROADSIDE POWER DISTRIBUTION REQUIREMENTS.

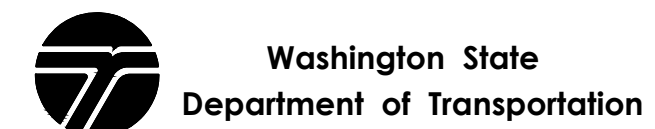
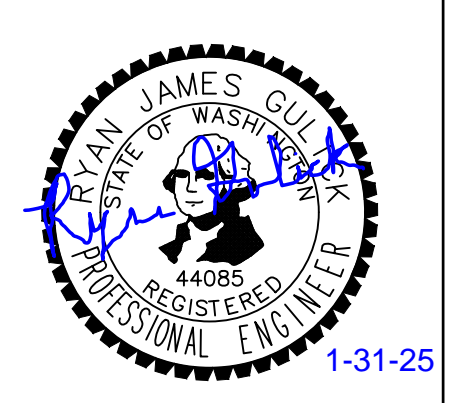
CONSTRUCTION NOTES:

- INSTALL NEW BOARDING PASS DISPENSER ON ISLAND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALL OVERHEAD SIGN PER WSDOT STD. PLAN G-30.10. SEE SIGN DETAIL DWG. NO. SD1.
- MOUNT WAVETRONIX ON EXISTING POLE. ORIENT WAVETRONIX DETECTOR TO DETECT VEHICLES AT FERRY HOLDING LANE STOP BAR.
- REMOVE EXISTING INDUCTION LOOP.
- INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10.
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- INSTALL TYPE 3 INDUCTION LOOPS PER WSDOT STD. PLAN J-50.12 IN CENTER OF LANE.
- INSTALL NEW CONDUIT BY DIRECTIONAL BORE METHOD.
- JUNCTION BOX AND ASSOCIATED CONDUIT RESERVED FOR FUTURE WSDOT ELECTRONIC SIGNING.
- INSTALL NEW RS900-HI-D-L2-L2-00 RUGGEDCOM ETHERNET SWITCH IN EXISTING CABINET. INSTALL IN LOCATION OF EXISTING SWITCH.
- CONNECT TO EXISTING JUNCTION BOX.
- RELOCATE EXISTING JUNCTION BOX AND ASSOCIATED CONDUIT TO THE PROPOSED LOCATION.
- RELOCATE EXISTING JUNCTION BOX TO PROPOSED LOCATION AND INTERCEPT ASSOCIATED CONDUIT.
- INSTALL NEW SIGNAL HEAD WITH ARM MOUNT TYPE N ON EXISTING MASTARM PER WSDOT STD. PLAN J-75.20. SEE DWG. NO. ITS2 FOR SIGNAL DISPLAY AND MOUNTING TYPES.
- INSTALL CABLE VAULT PER WSDOT STD PLAN J-90.20 AND INTERCEPT EXISTING COMMUNICATION CONDUIT.
- INSTALL NEW FIBER TERMINATION PANEL IN EXISTING CABINET. PRE-TERMINATED WALL MOUNT 12-PORT.
- REMOVE AND SALVAGE EXISTING RUGGEDCOM ETHERNET SWITCH IN EXISTING CABINET.
- TRANSITION UNDERGROUND FIBER CABLE TO AERIAL FIBER CABLE ON EXISTING POLE.
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- REMOVE EXISTING TYPE 1 AND INSTALL NEW CABLE VAULT PER WSDOT STD. PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.
- INSTALL BOARDING PASS DISPENSER ON MANUFACTURER FURNISHED 30-INCH RISER.
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- RELOCATE EXISTING STREET NAME SIGN TO LOCATION SHOWN ON SHEET ITS5.
- REMOVE EXISTING TYPE 1 JUNCTION BOX AND INSTALL CABLE VAULT WITH HEAVY DUTY LID PER WSDOT STD PLAN J-90.20. TRANSFER ALL ASSOCIATED CONDUIT TO THE NEW CABLE VAULT.



Jan 31, 2025 - 8:36am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139-ITS.dwg Layout Name: ITS4

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139-ITS.dwg Layout Name: ITS4		
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DATE	8:36am		
DESIGNED BY	P. ETIEHADOLHAGH	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY		JOB NUMBER	20230139
PROJ. ENGR.	R. GULICK	CONTRACT NO.	TA 7701
REGIONAL ADM.		LOCATION NO.	
REVISION		DATE	BY

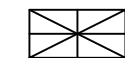




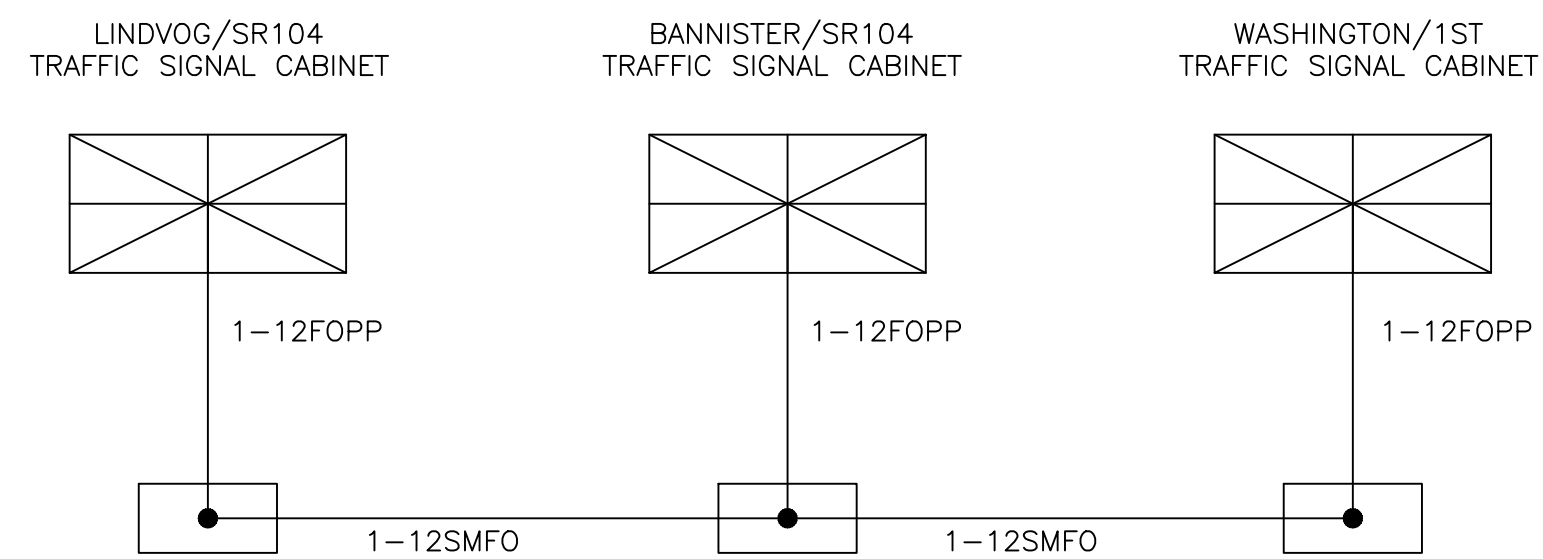
SR 104	PLAN REF NO	ITS4
SR 104 HOLDING LANES ATMS	SHEET	16
KITSAP COUNTY	OF	28
JANUARY 2025	SHEETS	28
ITS PLANS		



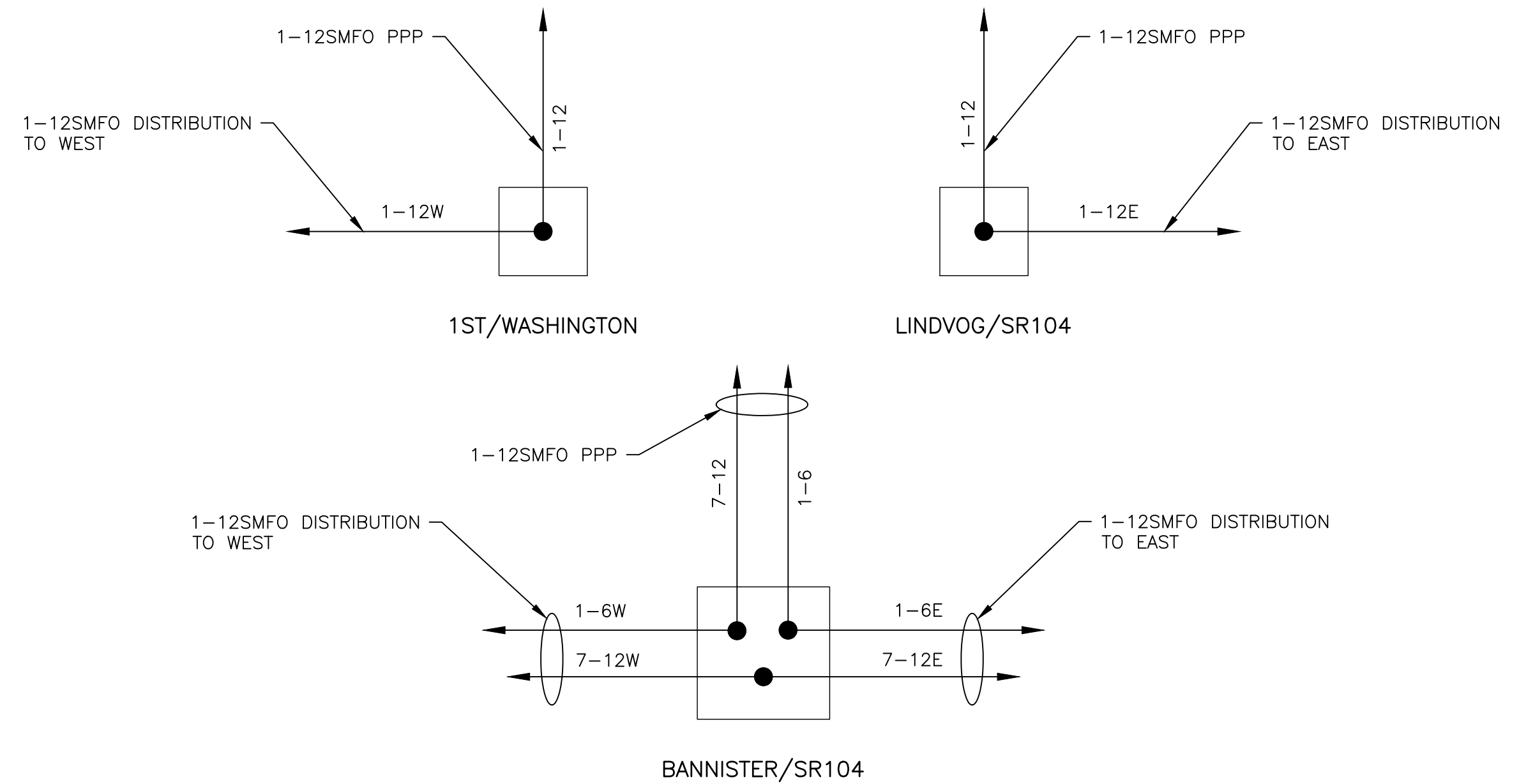
Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD1

**LEGEND:**

-  SIGNAL CABINET
-  FIBER SPLICE
-  SPLICE BOX



**FIBER ONE-LINE DIAGRAM**  
N.T.S.

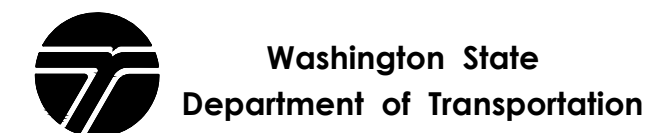


**FIBER SPLICING DETAILS**  
N.T.S.

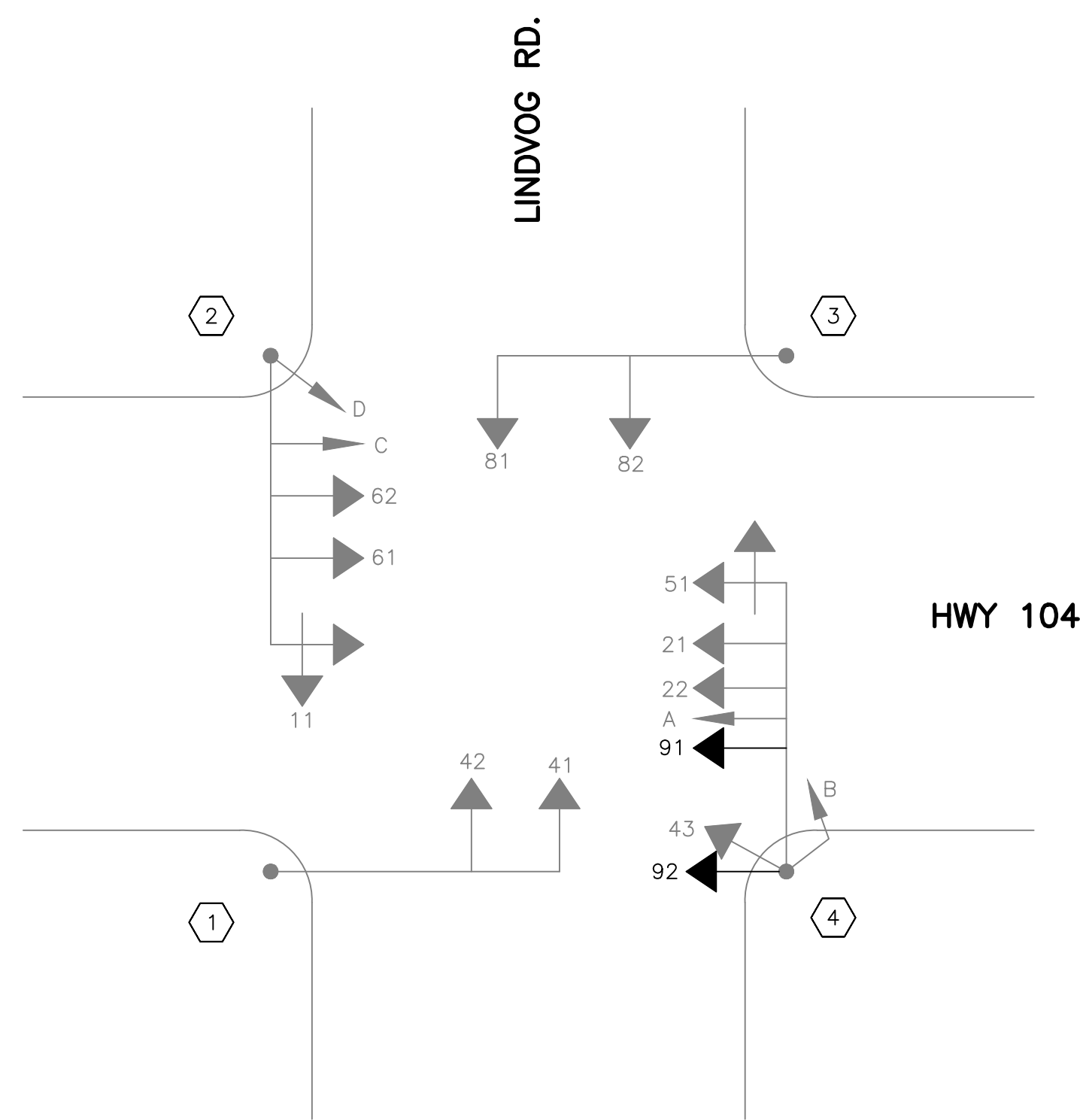


FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD1			
TIME	Jan 31, 2025			
DATE	8:37am			
DESIGNED BY	K. WISEMAN			
ENTERED BY	N. EATON			
CHECKED BY	--			
PROJ. ENGR.	P. BUCHANAN			
REGIONAL ADM.		REVISION	DATE	BY

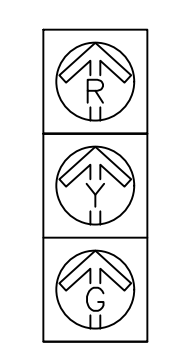
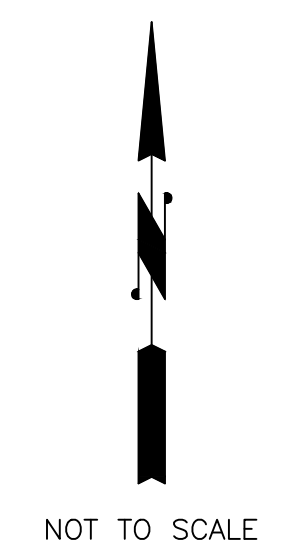
REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER	20230139	
CONTRACT NO.	TA 7701	
LOCATION NO.		



SR 104	PLAN REF NO
SR 104 HOLDING LANES ATMS	ITSD1
KITSAP COUNTY	JANUARY 2025
ITS DETAILS	
SHEET 17 OF 28 SHEETS	

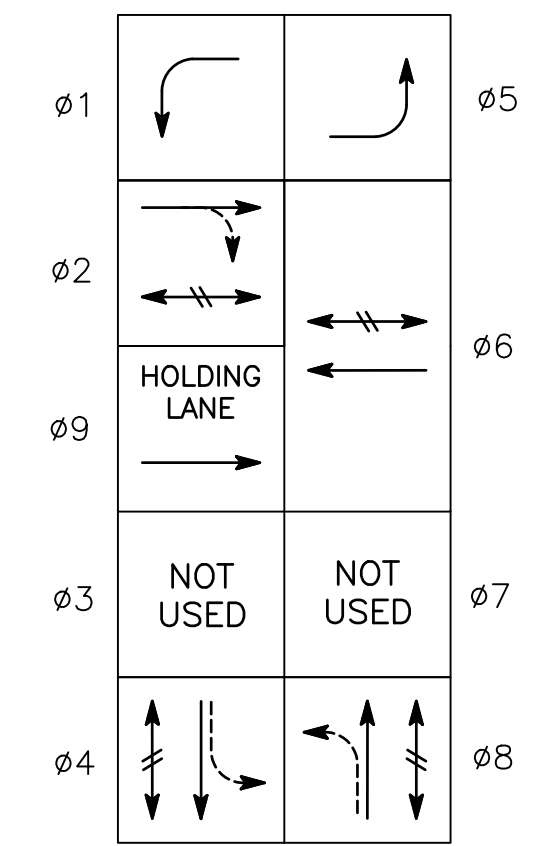


**INTERSECTIONAL SIGNAL LAYOUT**  
LINDVOG/SR104



91, 92

**NEW VEHICLE SIGNAL DISPLAYS**

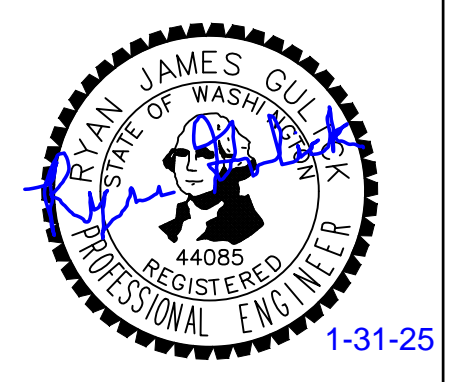


- LEGEND**
- PROTECTED VEHICLE MOVEMENT
  - PROTECTED PEDESTRIAN MOVEMENT
  - PERMISSIVE VEHICLE MOVEMENT

**PHASING SEQUENCE DIAGRAM**  
LINDVOG/SR104

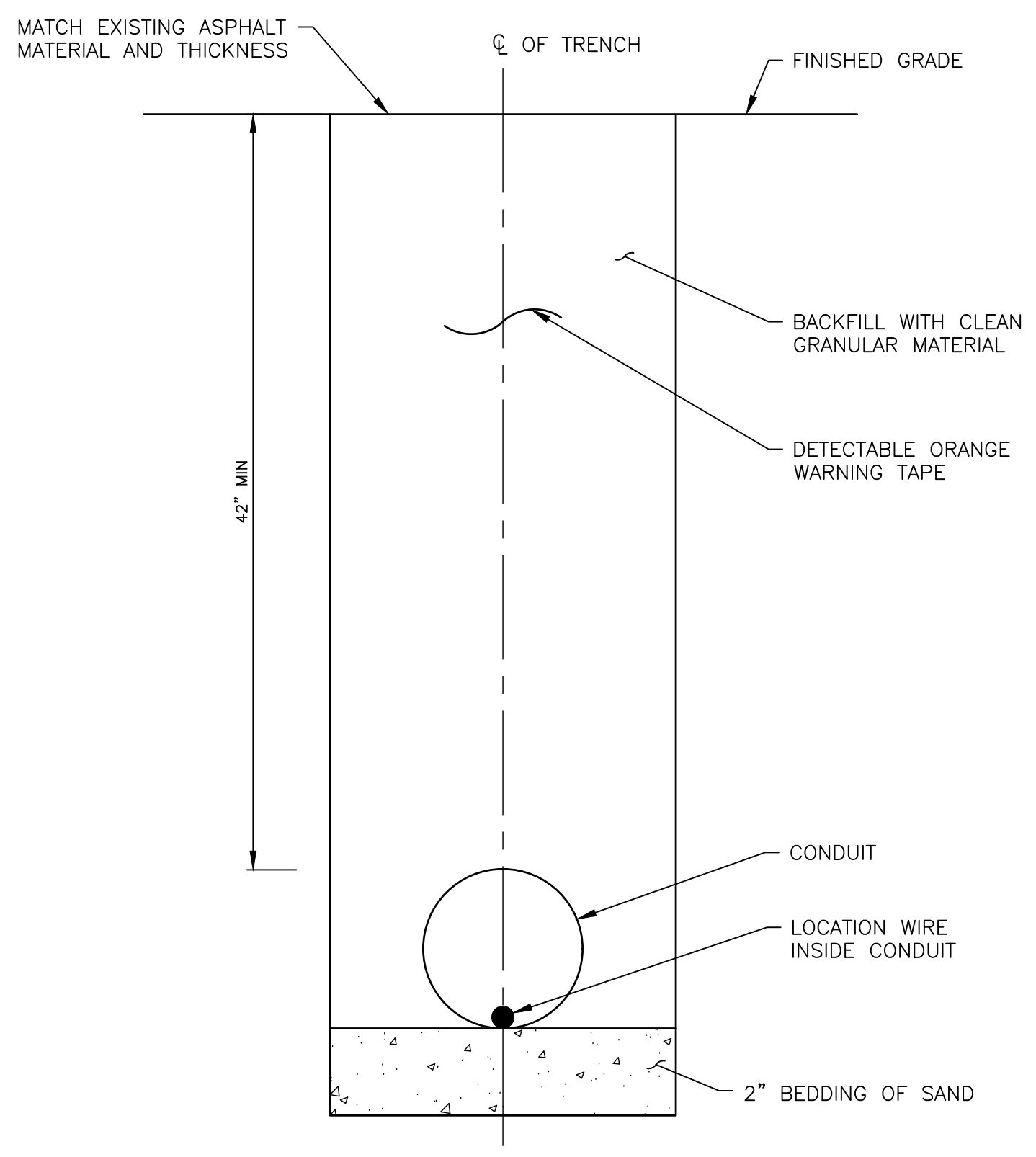
Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD2

FILE NAME		X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg		REGION NO.	STATE	FED.AID PROJ.NO.
TIME	Jan 31, 2025			10	WASH	STBGUM-CRRSAA-0104(068)
DATE	8:37am			JOB NUMBER		
DESIGNED BY	K. WISEMAN			20230139		
ENTERED BY	N. EATON			CONTRACT NO.		LOCATION NO.
CHECKED BY	--			TA 7701		
PROJ. ENGR.	P. BUCHANAN					
REGIONAL ADM.		REVISION	DATE	BY		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO
KITSAP COUNTY	JANUARY 2025	ITSD2
SIGNAL DETAILS		SHEET 18 OF 28 SHEETS



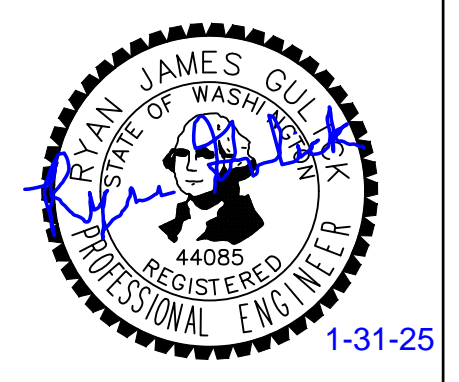


SINGLE CONDUIT  
CONDUIT TRENCH DETAIL  
N.T.S.

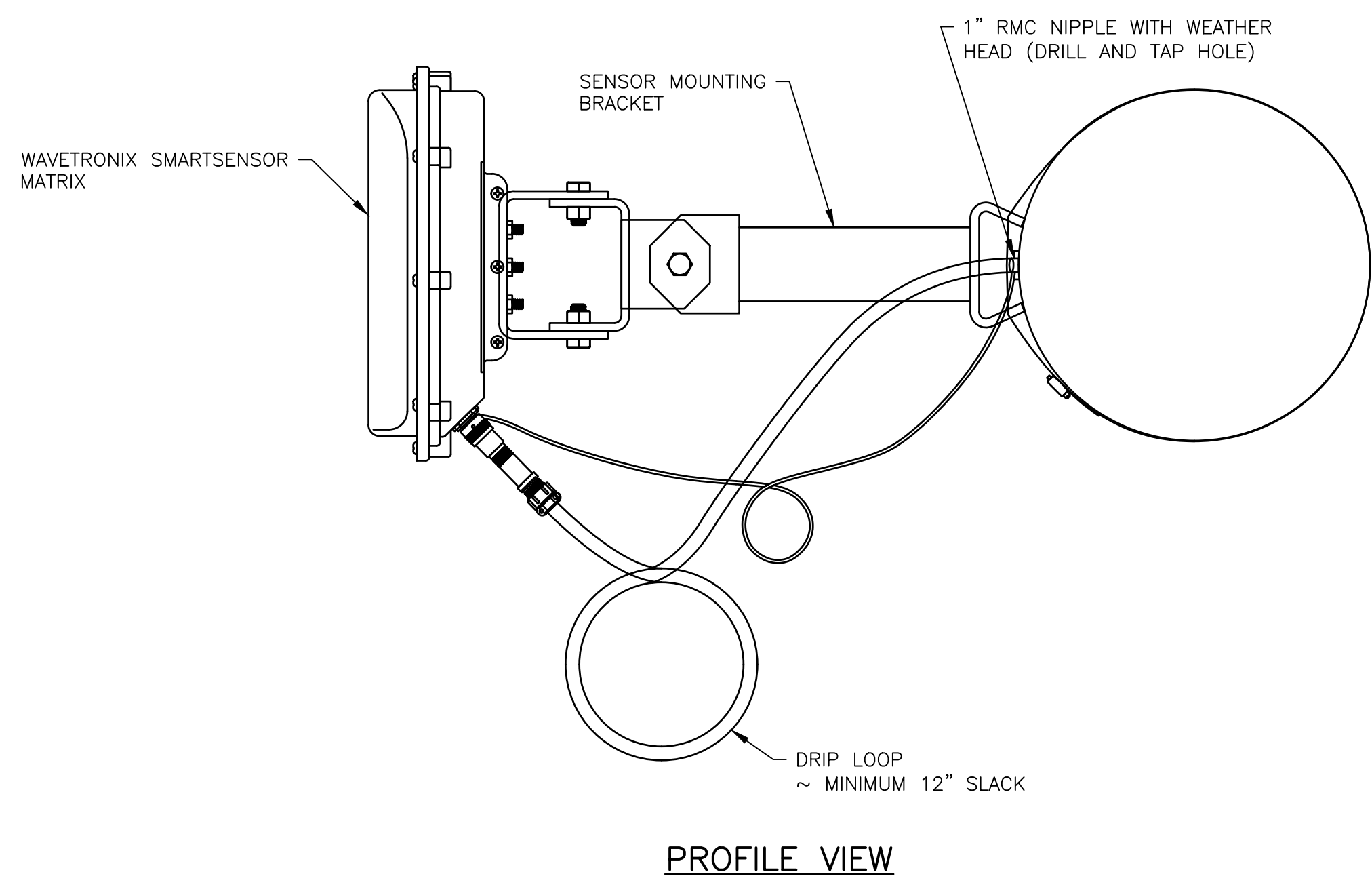
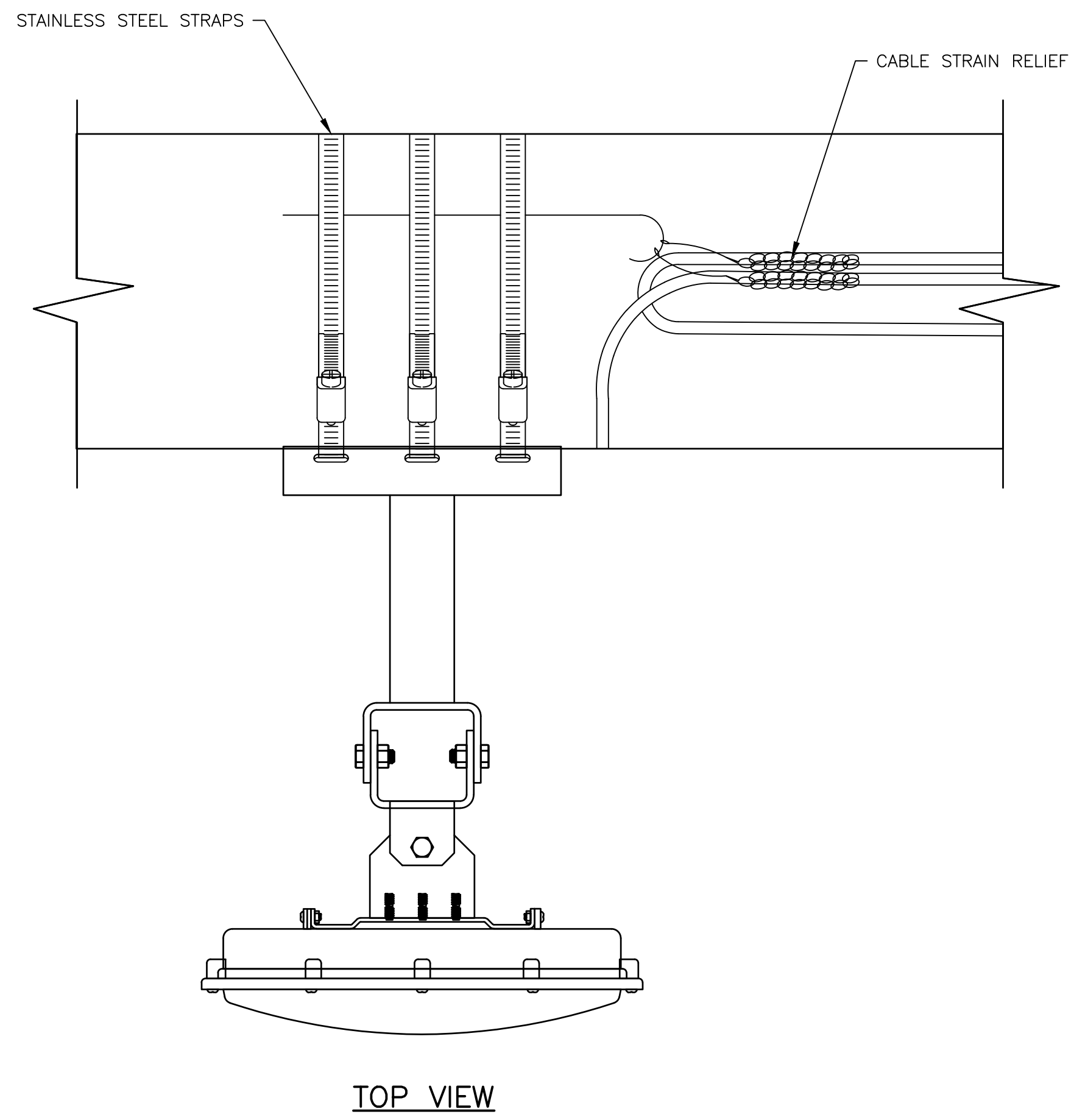


Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD3

FILE NAME		X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD3									
TIME	Jan 31, 2025										
DATE	8:37am										
DESIGNED BY	K. WISEMAN										
ENTERED BY	N. EATON										
CHECKED BY	--										
PROJ. ENGR.	P. BUCHANAN										
REGIONAL ADM.		REVISION		DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	10	WASH	STBGUM-CRRSAA-0104(068)
						JOB NUMBER		LOCATION NO.	20230139		
						CONTRACT NO.			TA 7701		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	ITSD3
KITSAP COUNTY	JANUARY 2025	SHEET OF SHEETS	19 OF 28
SIGNAL DETAILS			



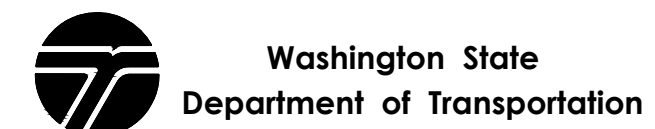
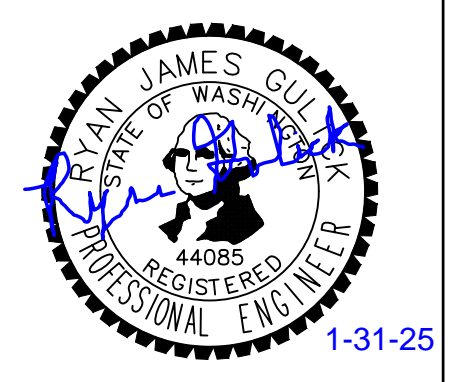
WAVETRONIX POLE SCHEDULE									
POLE NUMBER	STATION	OFFSET	HEIGHTS			BASE TYPE	FOUNDATION STANDARD PLAN & CASE	FOUNDATION TYPE (J-2830)	COMMENTS
			H1	S1	S2				
W1	129+00	65' RT	30	26	N/A	N/A	N/A	N/A	NOTE 2

**RADAR DATA STATION POLE DETAIL**  
N.T.S.

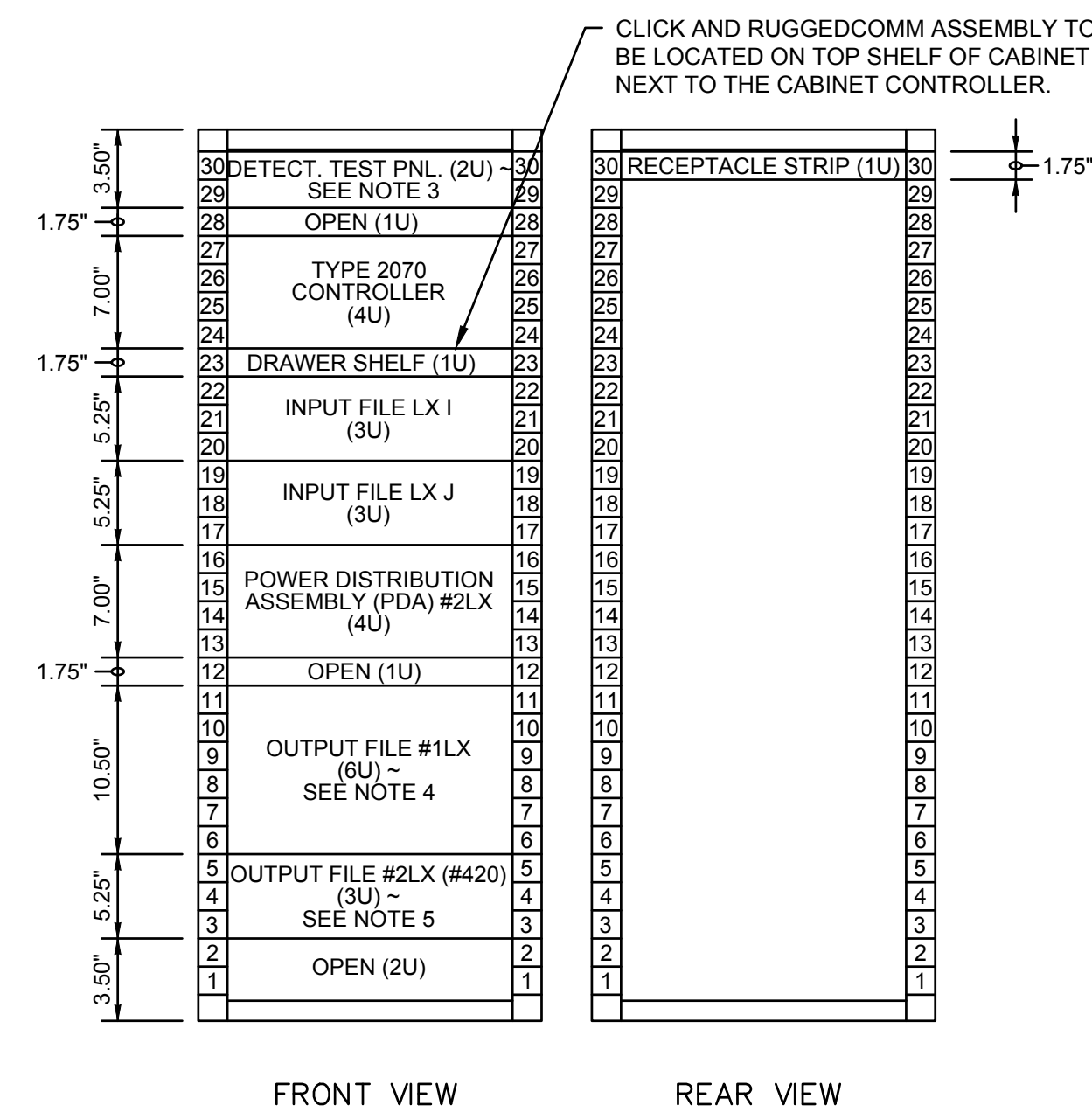


Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD4

FILE NAME		X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg		Layout Name: ITSD4	
TIME	Jan 31, 2025			REGION NO.	STATE
DATE	8:37am			10	WASH
DESIGNED BY	K. WISEMAN			JOB NUMBER	20230139
ENTERED BY	N. EATON			CONTRACT NO.	TA 7701
CHECKED BY	--			LOCATION NO.	
PROJ. ENGR.	P. BUCHANAN				
REGIONAL ADM.		REVISION	DATE	BY	

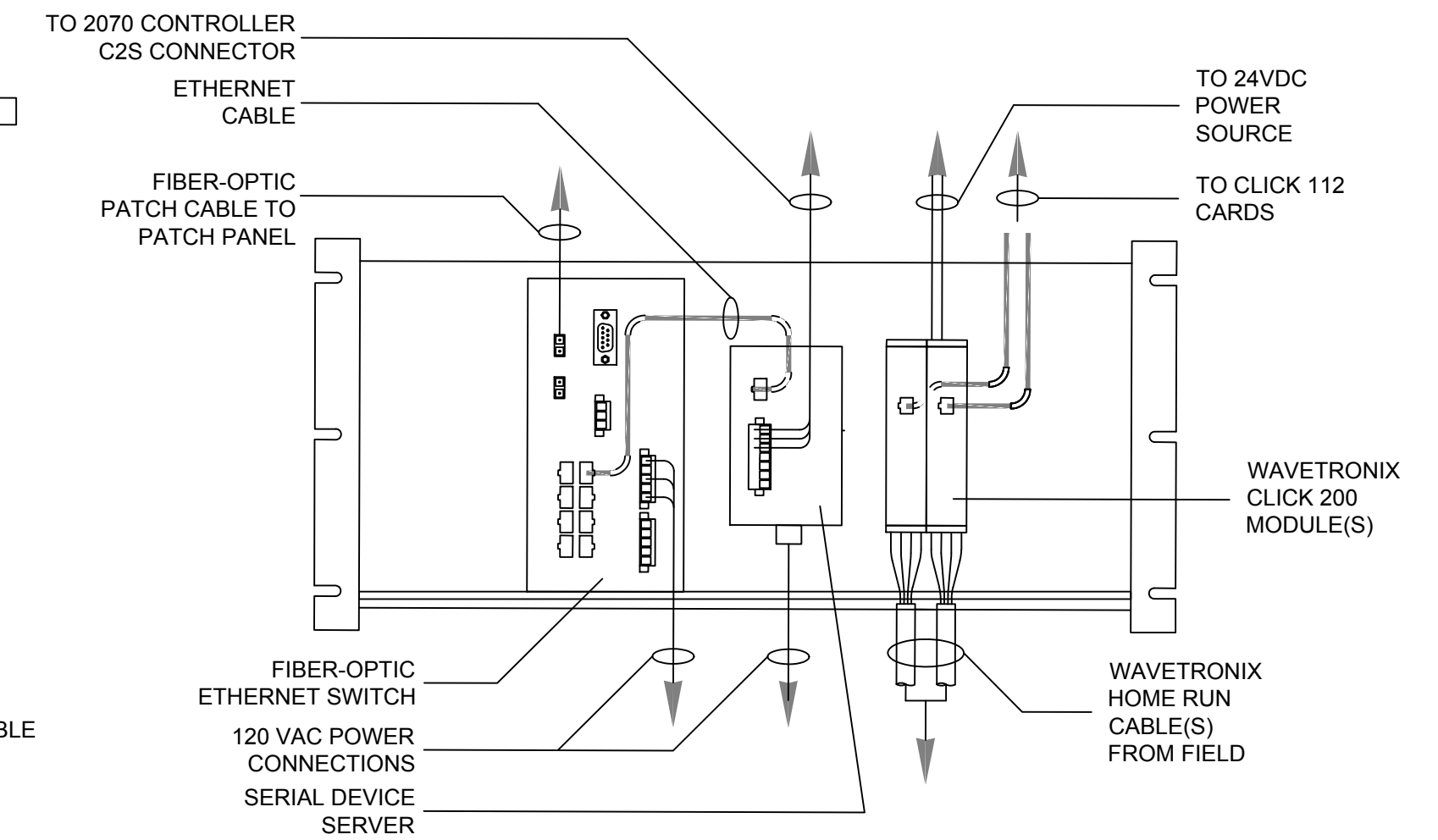
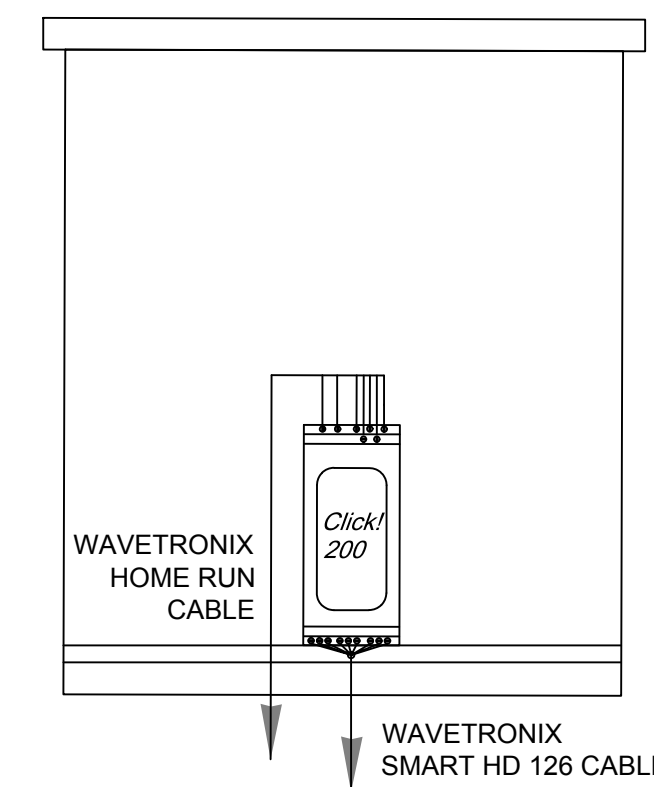
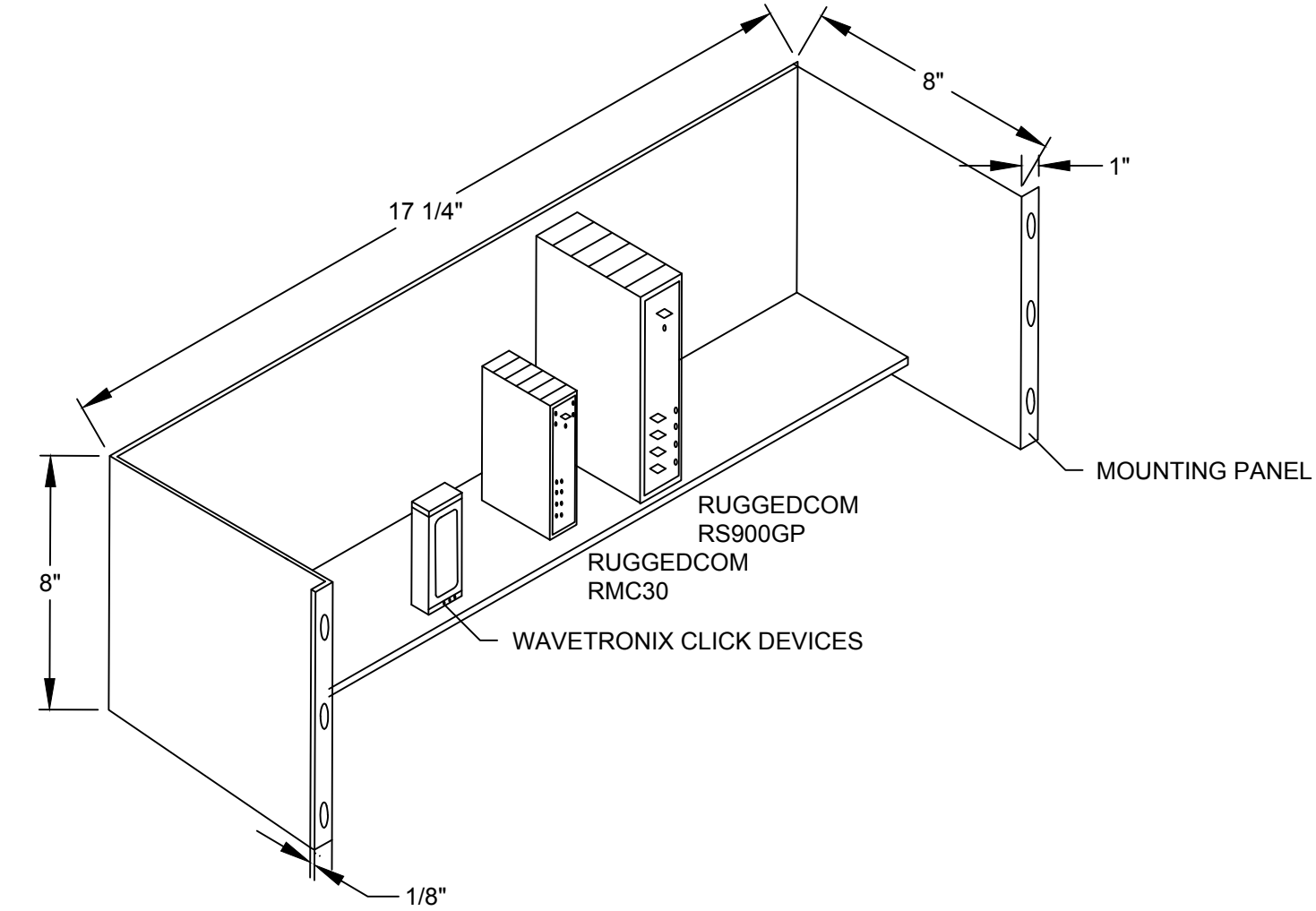


SR 104	PLAN REF NO
SR 104 HOLDING LANES ATMS	ITSD4
KITSAP COUNTY	JANUARY 2025
SIGNAL DETAILS	SHEET 20 OF 28 SHEETS



FRONT VIEW REAR VIEW

**SIGNAL CABINET LAYOUT**  
N.T.S.

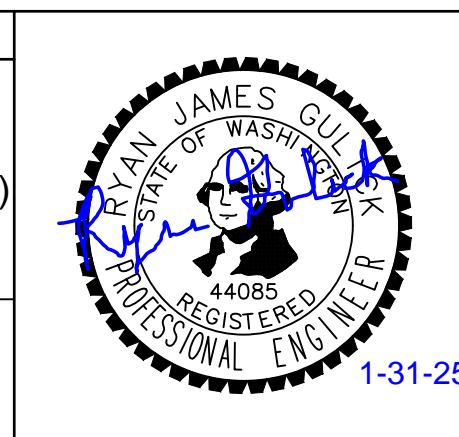


**WAVETRONIX DETAILS**  
N.T.S.

Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD5

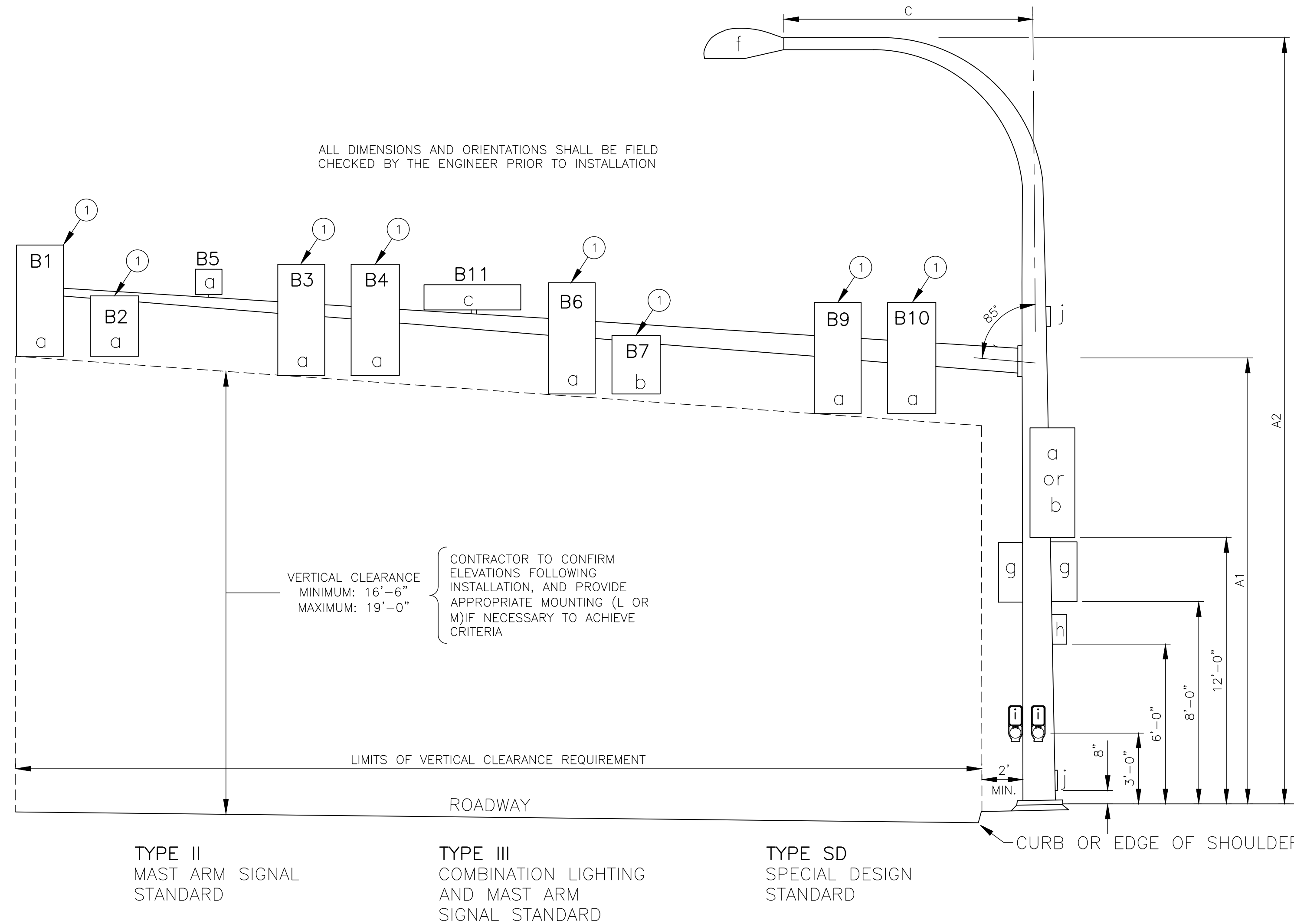
FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD5			
TIME	Jan 31, 2025			
DATE	8:37am			
DESIGNED BY	K. WISEMAN			
ENTERED BY	N. EATON			
CHECKED BY	--			
PROJ. ENGR.	P. BUCHANAN			
REGIONAL ADM.		REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER		
20230139		
CONTRACT NO.	LOCATION NO.	
TA 7701		



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SR 104 HOLDING LANES ATMS	ITSD5
KITSAP COUNTY	JANUARY 2025
SIGNAL DETAILS	SHEET 21 OF 28 SHEETS





- LEGEND**
- a. VEHICLE DISPLAY
  - b. SIGN
  - c. STREET NAME SIGN
  - d. PRE-EMPTY DETECTOR
  - e. NOT USED
  - f. LUMINAIRE
  - g. PEDESTRIAN DISPLAY
  - h. CABINET
  - i. APS PUSHBUTTON
  - j. HANDHOLE
  - k. VIDEO CAMERA
  - l. BICYCLE DISPLAY

- NOTES**
- ① MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.

**POLE SCHEDULE**

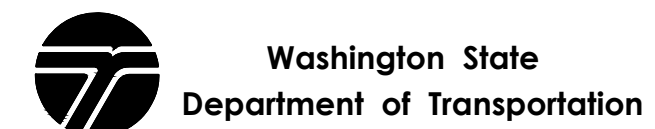
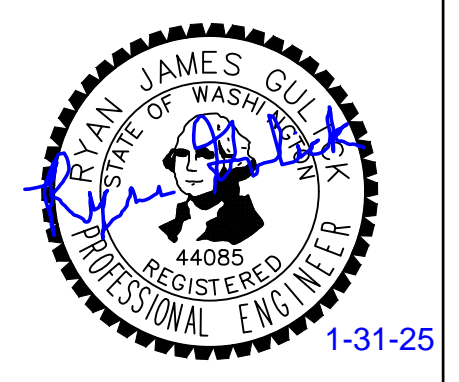
STD NO.	SR NO.	SR MILE POST	FIELD LOCATION				TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA											LUMINAIRE ARM (FT)	POLE ATTACHMENT POINT ANGLES (DEG)								FOUNDATION DEPTHS (FT)			SEE NOTES									
										OFFSET DIST. (FT) (Z) (POLE C̄ TO ATTACHMENT PT.)												(X)(7)(Z) TOTAL (FT)	C	E1E	2	D	F	G	H	I1	I2	3'RD		3'SQ	4'RD							
										B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11																B1	B2	B3	B4	B6	B7	B9
4	104	23.89	25+87.5	51		X	90	III	18.5	40	57	25*	47	39	30	35(1)	10*	15*	0*	25	9.2	8	9.2	9.2		7	9.2	9.2	5	1686	16	0	0	0	90/180	135	0	270	11'	9'	9'	

\* NEW POLE ATTACHMENTS TO EXISTING MASTARM  
 B2: NO RIGHT TURN SIGN  
 B7: FERRY SIGN ONLY  
 B9/B10: SIGNAL HEAD 91/92  
 B11: RELOCATED STREET SIGN

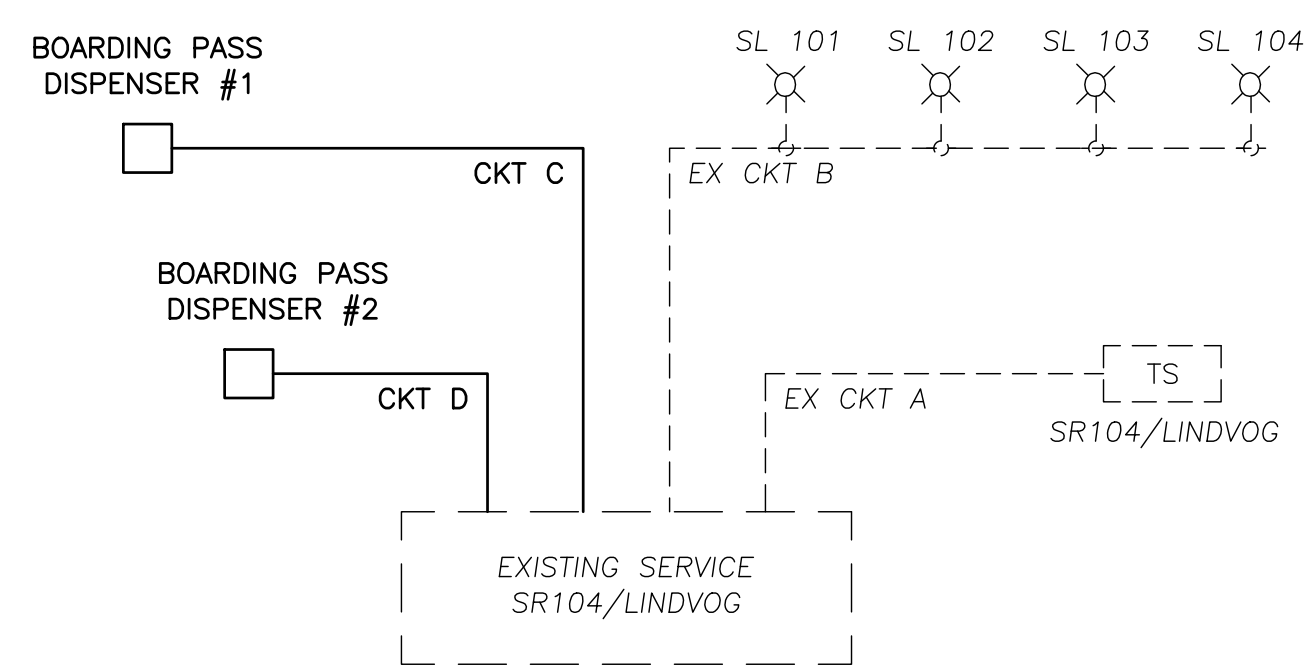


Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD6

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD6		
TIME	Jan 31, 2025		
DATE	8:37am		
DESIGNED BY	K. WISEMAN	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY	--	FED.AID PROJ.NO.	STBGUM-CRRSAA-0104(068)
PROJ. ENGR.	P. BUCHANAN	JOB NUMBER	20230139
REGIONAL ADM.		CONTRACT NO.	TA 7701
REVISION		LOCATION NO.	
DATE		BY	



SR 104	PLAN REF NO	ITSD6
SR 104 HOLDING LANES ATMS	SHEET	22
KITSAP COUNTY	OF	28
JANUARY 2025	SHEETS	28
SIGNAL DETAILS		



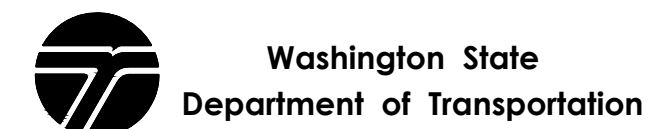
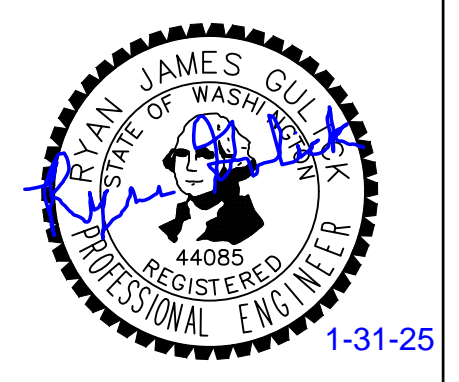
**POWER SERVICE CIRCUIT DIAGRAM**  
N.T.S.

SERVICE PANEL SCHEDULE						
BREAKER SCHEDULE MODIFIED TYPE B			EXISTING SERVICE SR104/LINDVOG 120/240V			
CIRCUIT	DESCRIPTION	BREAKER TYPE	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
	MAIN	2P	100A			
A	SIGNAL	2P	50A		240	3
B	ILLUMINATION	2P	20A	30A	240	1
C	BPD 1	1P	10A		120	0.6
D	BPD 2	1P	10A		120	0.6
	INTERNAL MAIN	2P	30A		240/120	-
	CONTROL	1P	15A		120	0.001
	OUTLET	1P	20A		120	1.5

Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - ITSD.dwg Layout Name: ITSD7

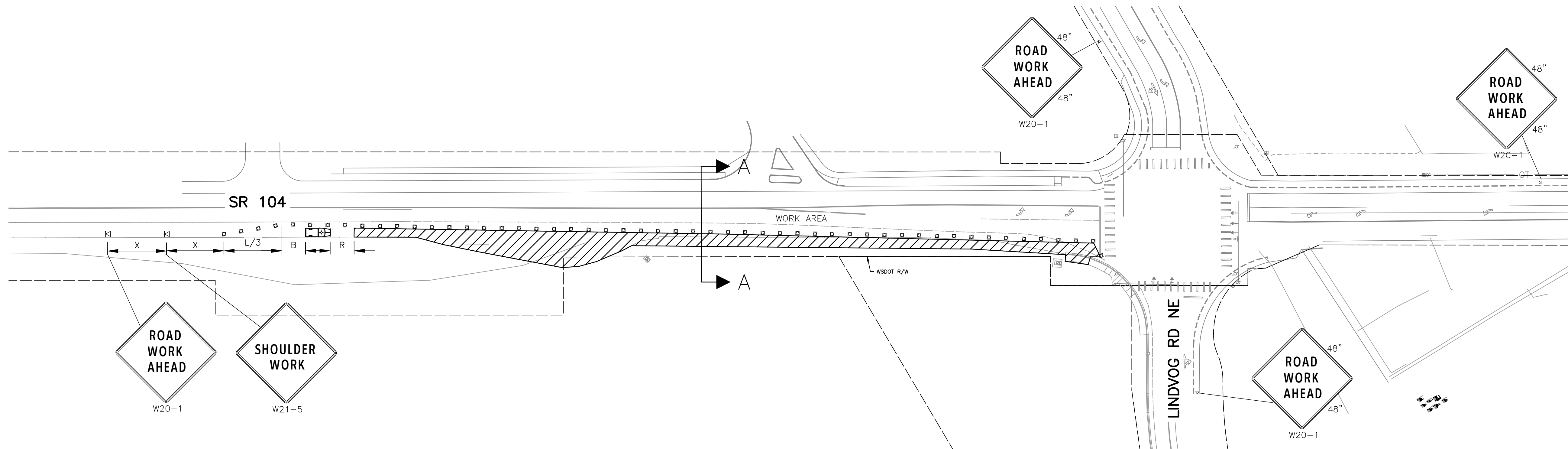


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TIME	Jan 31, 2025						
DATE	8:37am						
DESIGNED BY	K. WISEMAN						
ENTERED BY	N. EATON						
CHECKED BY	--						
PROJ. ENGR.	P. BUCHANAN						
REGIONAL ADM.		REVISION	DATE	BY			
					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	STBGUM-CRRSAA-0104(068)
					JOB NUMBER		
					20230139		
					CONTRACT NO.		LOCATION NO.
					TA 7701		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	ITSD7
KITSAP COUNTY	JANUARY 2025	SHEET	23
		OF	28
		SHEETS	28
SIGNAL DETAILS			

SEC 22, T 24 N, R 4 E, W.M.



NOTES:

- ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.
- WHEN USED DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
- ALLOWABLE WORK HOURS ARE TUESDAY-FRIDAY, 8:00 AM TO 6:00 PM.
- CONTRACTOR TO NOTIFY WASHINGTON STATE FERRIES FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- CONTRACTOR TO NOTIFY WSDOT OLYMPIC REGION TMC FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- PEDESTRIAN ACCOMMODATIONS, WHERE FACILITY OPEN TO PEDESTRIANS:
  - KEEP ADJACENT SIDEWALK OR PATHWAY OPEN.
  - CLOSE ADJACENT SIDEWALK OR PATHWAY. PROVIDE PEDESTRIAN DETOUR, ALTERNATE ROUTE, OR FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK).
  - STOP WORK OPS. & ESCORT PEDESTRIANS THROUGH WORK AREA.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- BICYCLISTS ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
  - SHARED BICYCLE-VEHICLE LANE AND W11-15 MOD & R4-11 SIGNS.
  - BICYCLES PROHIBITED R5-6 SIGN(S). PROVIDE SIGNED DETOUR OR ALTERNATIVE ROUTE.
  - BICYCLES PROHIBITED VIA R5-6 SIGN(S). PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTRACT INFORMATION/HOLE BOX/LABORER.
  - STOP WORK OPS & ESCORT BICYCLISTS THROUGH SHOULDER CLOSURE.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- MANDATORY: CONTRACT OR REGION RADIO APPROX. 5 MIN PRIOR TO START OF CLOSURE AND AGAIN IMMEDIATELY AFTER OPENING ROADWAY.
- IF FEASIBLE, AVOID PLACING SHOULDER CLOSURE TAPER WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL AND VERTICAL CREST CURVES.
- DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
- 28" TRAFFIC CONES, 36" TRAFFIC CONES, 42" TALL CHANNELIZING DEVICES, OR TRAFFIC SAFETY DRUMS ALLOWED ON TAPERS AND TANGENTS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- ADD W21-30 SERIES SIGNS (36"x36" MIN, 5' HEIGHT) @ X PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO OPEN LANES.

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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

SHOULDER CLOSURE TAPER LENGTH = L/3						
SHOULDER WIDTH (feet)	POSTED SPEED (mph)	25	25	30	35	40
6	L/3 (feet)	40	40	40	60	60
10		40	40	60	90	90

FOR SHOULDER WIDTHS LESS THAN 6', USE 3 DEVICES MINIMUM

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

PROTECTIVE VEHICLE (WORK VEHICLE) = R  
 NO SPECIFIED DISTANCE REQUIRED.  
 STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R  

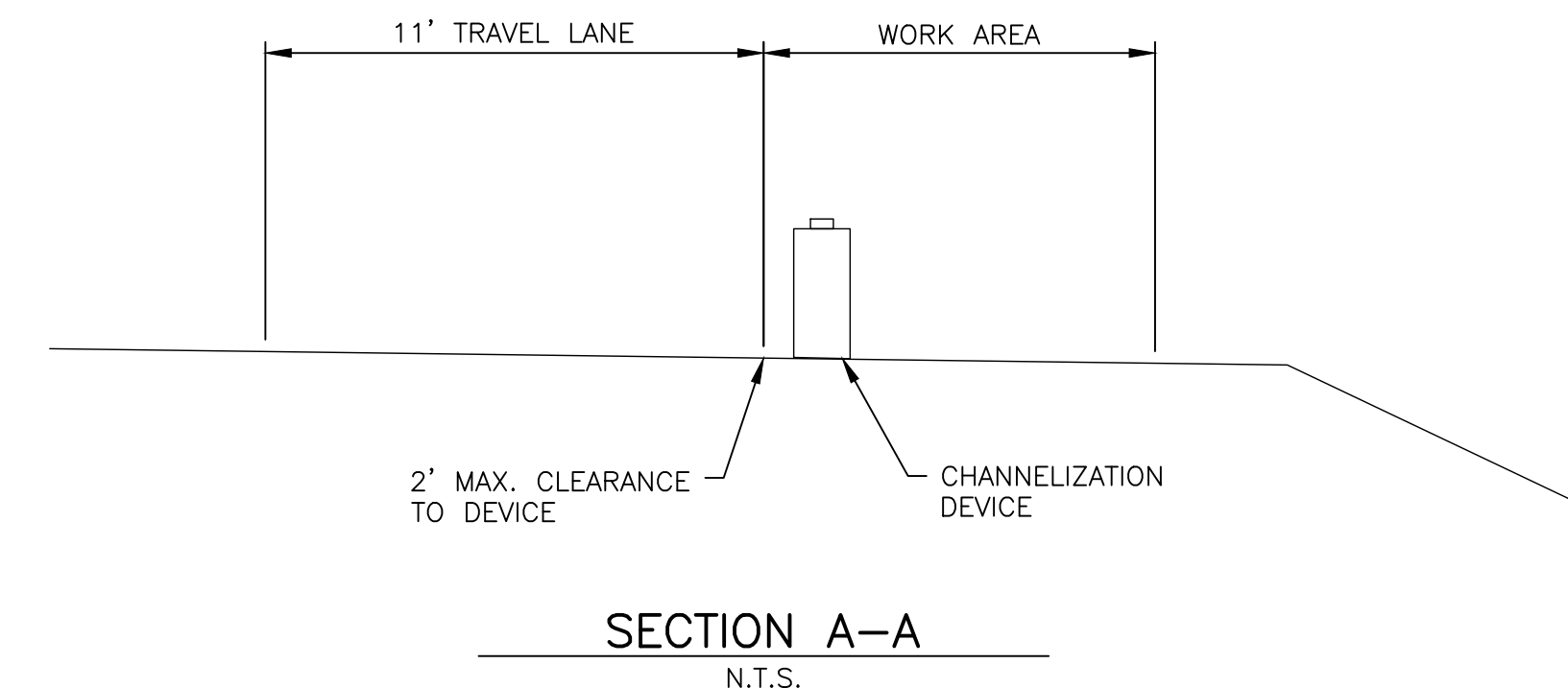
HOST VEHICLE WEIGHT	9,900 TO 22,000 lbs.			22,001± lbs.		
	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
	100'	123'	172'	74'	100'	150'

 NO SPECIFIED DISTANCE REQUIRED.  
 STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

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

TRAFFIC CONTROL LEGEND:

- SIGN LOCATION
- CHANNELIZATION DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- UNIFORMED POLICE OFFICER
- TYPE 3 BARRICADE
- DIRECTION OF TRAVEL
- WORK AREA



Jan 31, 2025 - 8:37am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC1

FILE NAME X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC1		REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STBGUM-CRRSAA-0104(068)					SR 104	PLAN REF NO TC1
TIME Jan 31, 2025	DATE 8:37am	JOB NUMBER 20230139	CONTRACT NO. TA 7701	LOCATION NO.					SR 104 HOLDING LANES ATMS	
DESIGNED BY K. WISEMAN	ENTERED BY N. EATON								KITSAP COUNTY	JANUARY 2025
CHECKED BY	PROJ. ENGR. P. BUCHANAN								TRAFFIC CONTROL PLAN STAGE A	
REGIONAL ADM.	REVISION	DATE	BY							

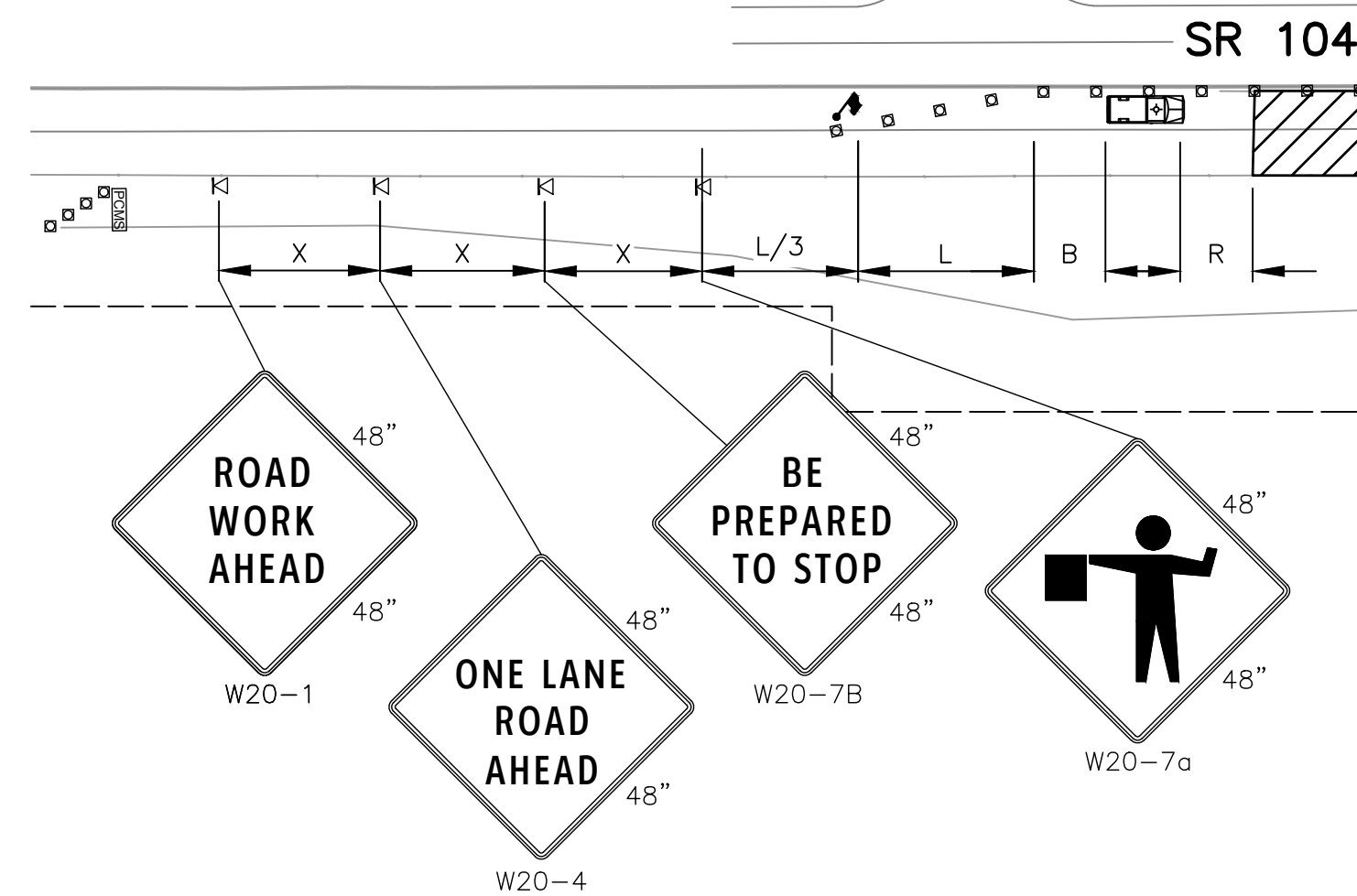
SHEET 24 OF 28 SHEETS



SEC 22, T 24 N, R 4 E, W.M.

PCMS	
1	2
LANE CLOSURE AHEAD	DATE TO DATE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± PRIOR TO CLOSURE. PLACE 7 DAYS IN ADVANCE TO WORK ZONE



MINIMUM LANE CLOSURE TAPER LENGTH = L

LANE WIDTH (feet)	SPEED (mph)	20	25	30	35	40	45	50	55
12	L (feet)	80	140	180	270	330	540	600	680

SIGN SPACING = X (1)

RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65
LENGTH (feet)	155	200	250	305	360	425	495	570	645

PROTECTIVE VEHICLE (WORK VEHICLE) = R

NO SPECIFIED DISTANCE REQUIRED.  
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R

HOST VEHICLE WEIGHT	9,900 TO 22,000 lbs.	22,001 ± lbs.
< 45 MPH	100'	150'
45-55 MPH	123'	172'
> 55 MPH	172'	240'

NO SPECIFIED DISTANCE REQUIRED.  
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

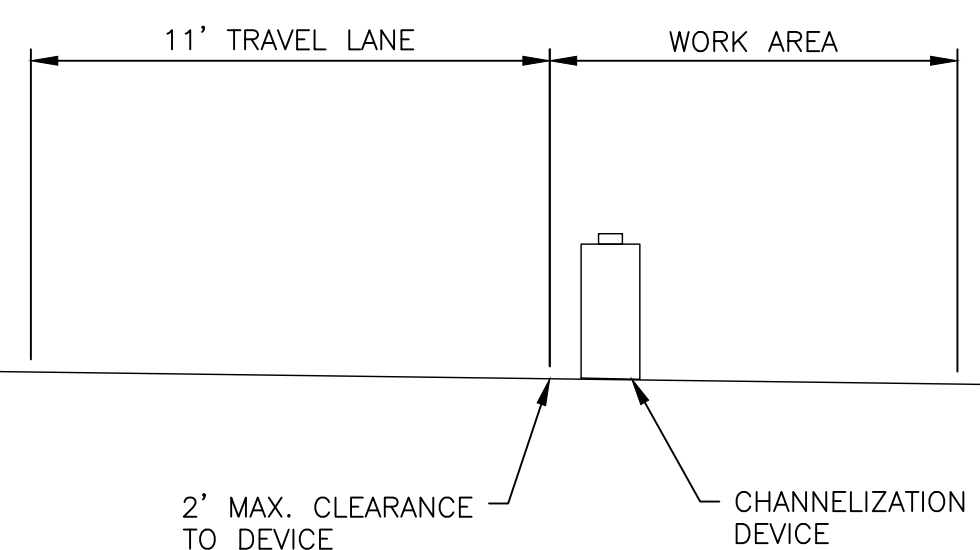
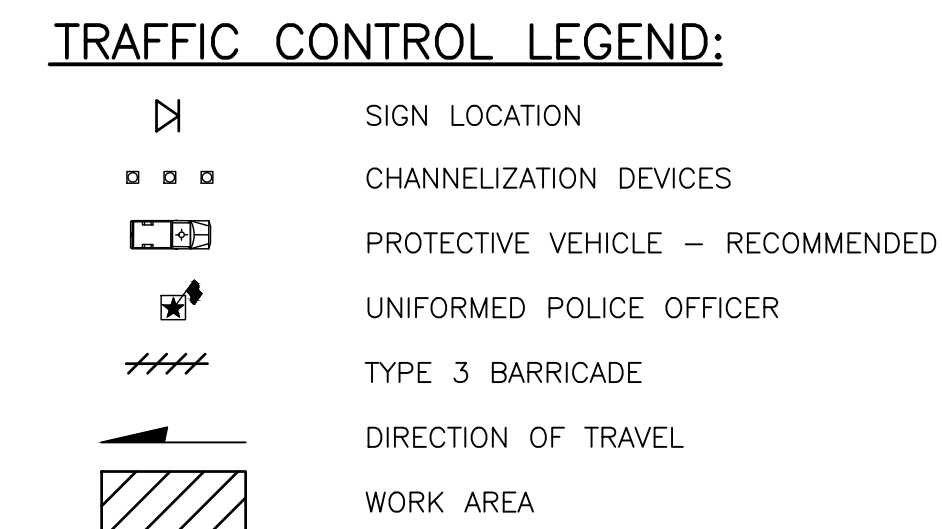
SHOULDER CLOSURE TAPER LENGTH = L/3

SHOULDER WIDTH (feet)	POSTED SPEED (mph)	25	25	30	35	40
6	L/3 (feet)	40	40	40	60	60
10		40	40	60	90	90

FOR SHOULDERS LESS THAN 6', USE 3 DEVICES MINIMUM

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
35-45	30	60
25-30	20	40



SECTION A-A  
N.T.S.

NOTES:

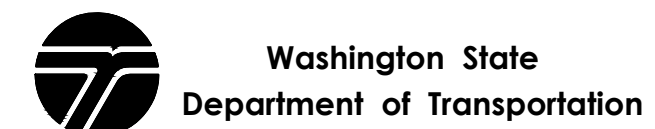
- ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.
- WHEN USED DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
- ALLOWABLE WORK HOURS ARE TUESDAY-FRIDAY, 8:00 AM TO 6:00 PM.
- CONTRACTOR TO NOTIFY WASHINGTON STATE FERRIES FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- CONTRACTOR TO NOTIFY WSDOT OLYMPIC REGION TMC FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- PEDESTRIAN ACCOMMODATIONS, WHERE FACILITY OPEN TO PEDESTRIANS:
  - KEEP ADJACENT SIDEWALK OR PATHWAY OPEN.
  - CLOSE ADJACENT SIDEWALK OR PATHWAY. PROVIDE PEDESTRIAN DETOUR, ALTERNATE ROUTE, OR FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK).
  - STOP WORK OPS. & ESCORT PEDESTRIANS THROUGH WORK AREA.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- BICYCLISTS ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
  - SHARED BICYCLE-VEHICLE LANE AND W11-15 MOD & R4-11 SIGNS.
  - BICYCLES PROHIBITED R5-6 SIGN(S). PROVIDE SIGNED DETOUR OR ALTERNATIVE ROUTE.
  - BICYCLES PROHIBITED VIA R5-6 SIGN(S). PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTRACT INFORMATION/HOLE BOX/LABORER.
  - STOP WORK OPS & ESCORT BICYCLISTS THROUGH SHOULDER CLOSURE.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- MANDATORY: CONTRACT OR REGION RADIO APPROX. 5 MIN PRIOR TO START OF CLOSURE AND AGAIN IMMEDIATELY AFTER OPENING ROADWAY.
- IF FEASIBLE, AVOID PLACING SHOULDER CLOSURE TAPER WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL AND VERTICAL CREST CURVES.
- DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
- 28" TRAFFIC CONES, 36" TRAFFIC CONES, 42" TALL CHANNELIZING DEVICES, OR TRAFFIC SAFETY DRUMS ALLOWED ON TAPERS AND TANGENTS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- ADD W21-30 SERIES SIGNS (36"x36" MIN, 5' HEIGHT) @ X PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO OPEN LANES.



Jan 31, 2025 - 8:38am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC2

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC2		
TIME	Jan 31, 2025		
DATE	8:38am		
DESIGNED BY	K. WISEMAN	REGION NO.	10
ENTERED BY	N. EATON	STATE	WASH
CHECKED BY	--	JOB NUMBER	20230139
PROJ. ENGR.	P. BUCHANAN	CONTRACT NO.	TA 7701
REGIONAL ADM.		LOCATION NO.	
REVISION		DATE	BY

FED.AID PROJ.NO.	
STBGUM-CRRSAA-0104(068)	

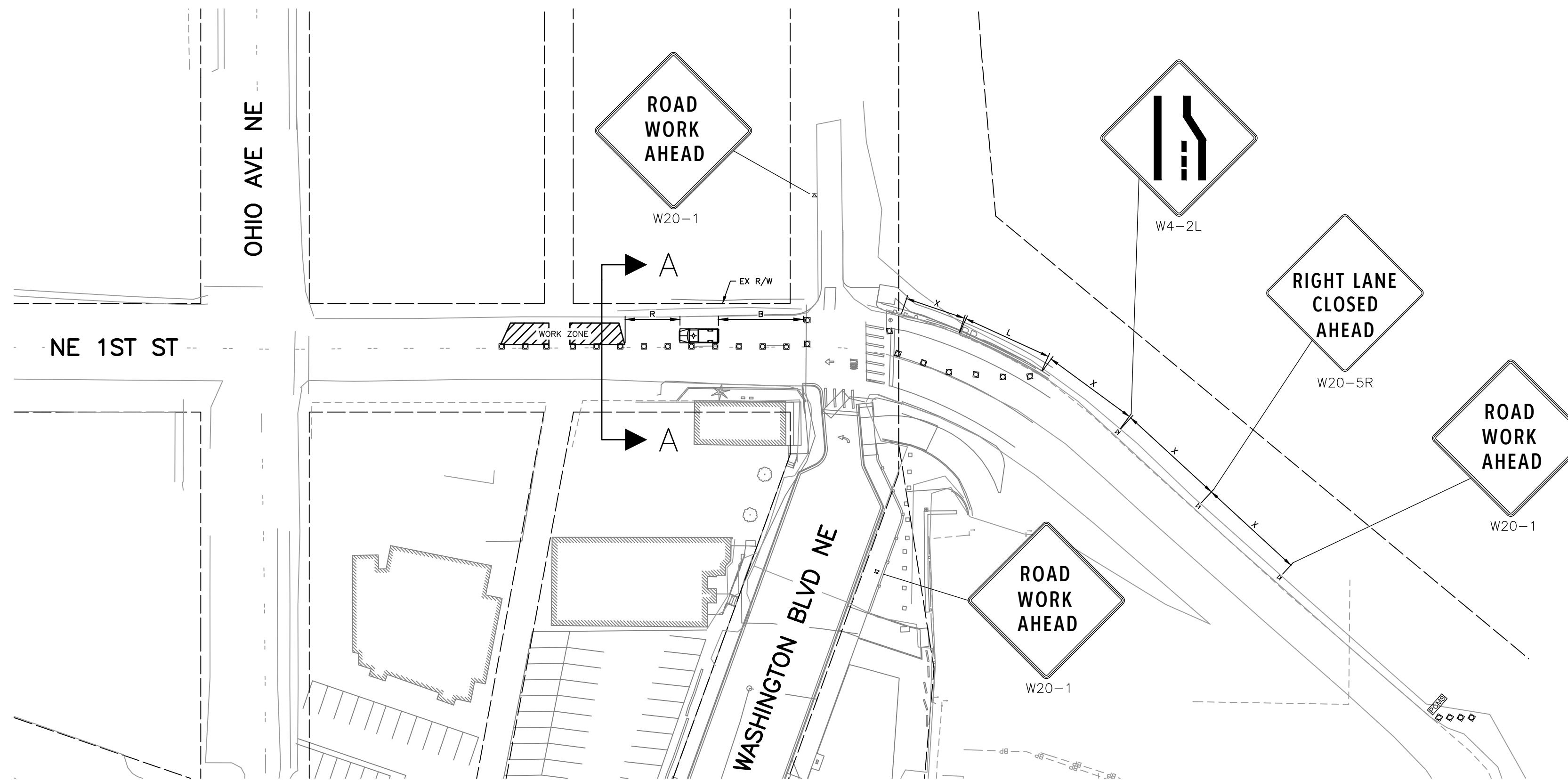


SR 104	PLAN REF NO	TC2
SR 104 HOLDING LANES ATMS	SHEET	25
KITSAP COUNTY	OF	28
JANUARY 2025	SHEETS	28
TRAFFIC CONTROL PLAN STAGE B		

SEC 22, T 24 N, R 4 E, W.M.

NOTES:

- ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.
- WHEN USED DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
- ALLOWABLE WORK HOURS ARE TUESDAY-FRIDAY, 8:00 AM TO 6:00 PM.
- CONTRACTOR TO NOTIFY WASHINGTON STATE FERRIES FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- CONTRACTOR TO NOTIFY WSDOT OLYMPIC REGION TMC FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
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  - KEEP ADJACENT SIDEWALK OR PATHWAY OPEN.
  - CLOSE ADJACENT SIDEWALK OR PATHWAY. PROVIDE PEDESTRIAN DETOUR, ALTERNATE ROUTE, OR FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK).
  - STOP WORK OPS. & ESCORT PEDESTRIANS THROUGH WORK AREA.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- BICYCLISTS ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
  - SHARED BICYCLE-VEHICLE LANE AND W11-15 MOD & R4-11 SIGNS.
  - BICYCLES PROHIBITED R5-6 SIGN(S). PROVIDE SIGNED DETOUR OR ALTERNATIVE ROUTE.
  - BICYCLES PROHIBITED VIA R5-6 SIGN(S). PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTRACT INFORMATION/HOLE BOX/LABORER.
  - STOP WORK OPS & ESCORT BICYCLISTS THROUGH SHOULDER CLOSURE.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- MANDATORY: CONTRACT OR REGION RADIO APPROX. 5 MIN PRIOR TO START OF CLOSURE AND AGAIN IMMEDIATELY AFTER OPENING ROADWAY.
- IF FEASIBLE, AVOID PLACING SHOULDER CLOSURE TAPER WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL AND VERTICAL CREST CURVES.
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- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- ADD W21-30 SERIES SIGNS (36"x36" MIN, 5' HEIGHT) @ X PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO OPEN LANES.

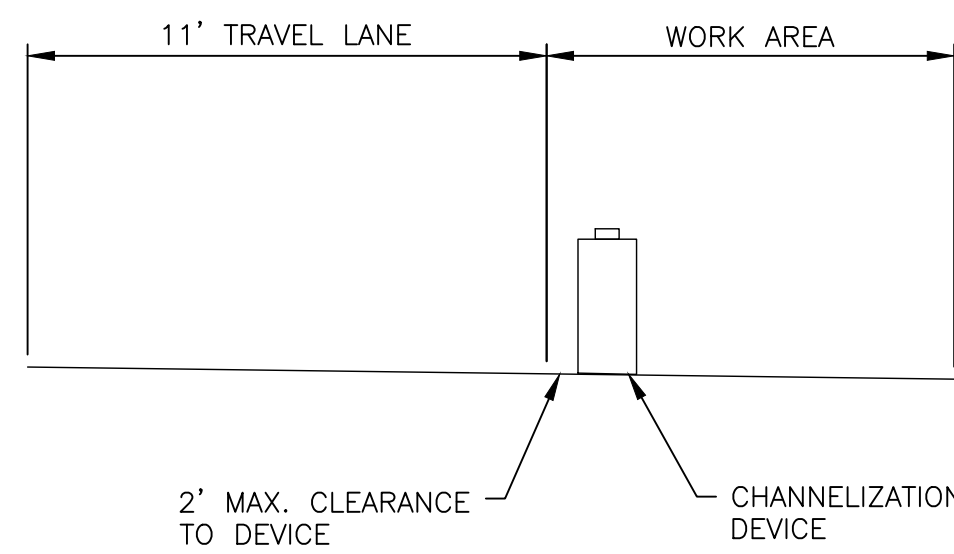


PCMS	
1	2
LANE CLOSURE AHEAD	DATE TO DATE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± PRIOR TO CLOSURE. PLACE 7 DAYS IN ADVANCE TO WORK ZONE

TRAFFIC CONTROL LEGEND:

- SIGN LOCATION
- CHANNELIZATION DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TYPE 3 BARRICADE
- DIRECTION OF TRAVEL
- WORK AREA



SECTION A-A  
N.T.S.

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(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.

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

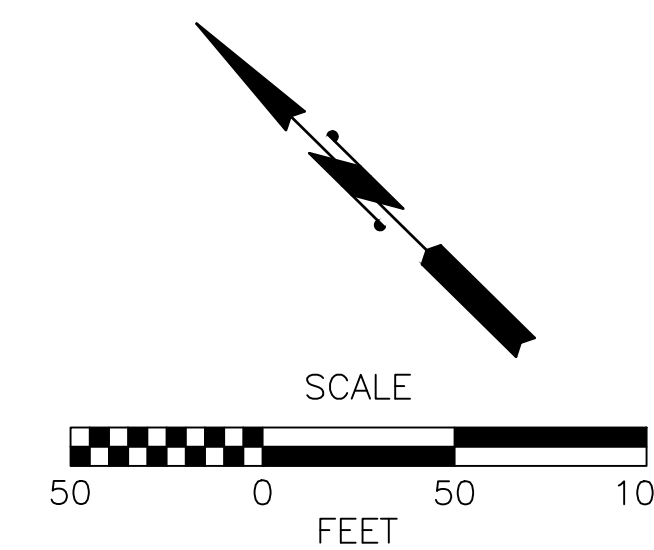
MINIMUM LANE CLOSURE TAPER LENGTH = L									
LANE WIDTH (feet)	SPEED (mph)	20	25	30	35	40	45	50	55
12	L (feet)	80	140	180	270	330	540	600	680

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

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	50	55	60	65
LENGTH (feet)	155	200	250	305	360	425	495	570	645
PROTECTIVE VEHICLE (WORK VEHICLE) = R									
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.									
STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R									
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT 22,001± lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	
100'	123'	172'	74'	100'	150'				
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.									

SHOULDER CLOSURE TAPER LENGTH = L/3					
SHOULDER WIDTH (feet)	POSTED SPEED (mph)	25	30	35	40
6	L/3 (feet)	40	40	60	60
10		40	40	90	90

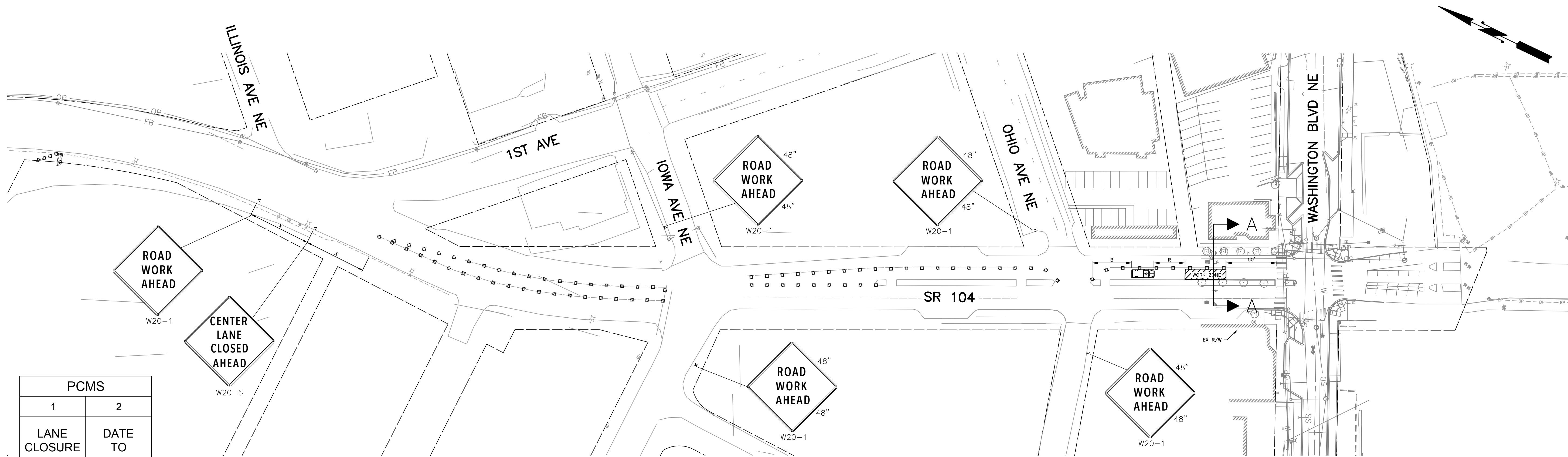
FOR SHOULDERS LESS THAN 6', USE 3 DEVICES MINIMUM



Jan 31, 2025 - 8:38am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC3

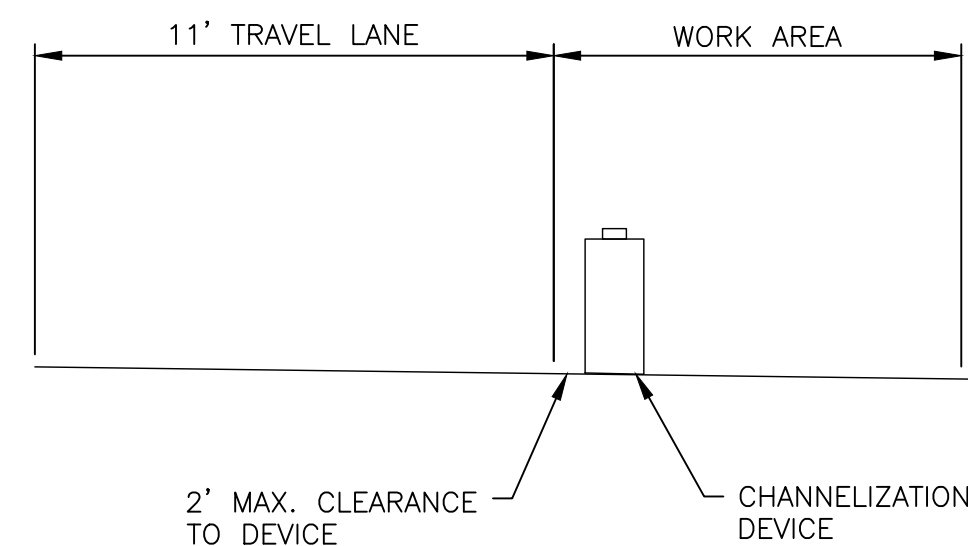
FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC3			REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	STBGUM-CRRSAA-0104(068)				SR 104 SR 104 HOLDING LANES ATMS KITSAP COUNTY JANUARY 2025 TRAFFIC CONTROL PLAN	PLAN REF NO	TC3
TIME	Jan 31, 2025			JOB NUMBER	20230139	CONTRACT NO.	TA 7701	LOCATION NO.						SHEET	26
DATE	8:38am			DESIGNED BY	K. WISEMAN					OF	28				
		ENTERED BY	N. EATON							SHEETS	28				
		CHECKED BY	--												
		PROJ. ENGR.	P. BUCHANAN												
		REGIONAL ADM.		REVISION		DATE	BY								

SEC 22, T 24 N, R 4 E, W.M.



PCMS	
1	2
LANE CLOSURE AHEAD	DATE TO DATE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± PRIOR TO CLOSURE. PLACE 7 DAYS IN ADVANCE TO WORK ZONE



SECTION A-A  
N.T.S.

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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

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

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	50	55	60	65
LENGTH (feet)	155	200	250	305	360	425	495	570	645
PROTECTIVE VEHICLE (WORK VEHICLE) = R									
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.									
STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R									
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001± lbs.						
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH				
100'	123'	172'	74'	100'	150'				
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.									

NOTES:

- ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.
- WHEN USED DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
- ALLOWABLE WORK HOURS ARE TUESDAY-FRIDAY, 8:00 AM TO 6:00 PM.
- 3 LANES SHALL REMAIN OPEN ON SR 104 AT ALL TIMES.
- CONTRACTOR TO NOTIFY WASHINGTON STATE FERRIES FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- CONTRACTOR TO NOTIFY WSDOT OLYMPIC REGION TMC FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- PEDESTRIAN ACCOMMODATIONS, WHERE FACILITY OPEN TO PEDESTRIANS:
  - KEEP ADJACENT SIDEWALK OR PATHWAY OPEN.
  - CLOSE ADJACENT SIDEWALK OR PATHWAY. PROVIDE PEDESTRIAN DETOUR, ALTERNATE ROUTE, OR FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK).
  - STOP WORK OPS. & ESCORT PEDESTRIANS THROUGH WORK AREA.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- BICYCLISTS ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
  - SHARED BICYCLE-VEHICLE LANE AND W11-15 MOD & R4-11 SIGNS.
  - BICYCLES PROHIBITED R5-6 SIGN(S). PROVIDE SIGNED DETOUR OR ALTERNATIVE ROUTE.
  - BICYCLES PROHIBITED VIA R5-6 SIGN(S). PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTRACT INFORMATION/HOLE BOX/LABORER.
  - STOP WORK OPS & ESCORT BICYCLISTS THROUGH SHOULDER CLOSURE.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- MANDATORY: CONTRACT OR REGION RADIO APPROX. 5 MIN PRIOR TO START OF CLOSURE AND AGAIN IMMEDIATELY AFTER OPENING ROADWAY.
- IF FEASIBLE, AVOID PLACING SHOULDER CLOSURE TAPER WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL AND VERTICAL CREST CURVES.
- DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
- 28" TRAFFIC CONES, 36" TRAFFIC CONES, 42" TALL CHANNELIZING DEVICES, OR TRAFFIC SAFETY DRUMS ALLOWED ON TAPERS AND TANGENTS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- ADD W21-30 SERIES SIGNS (36"X36" MIN, 5' HEIGHT) @ X PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO OPEN LANES.

TRAFFIC CONTROL LEGEND:

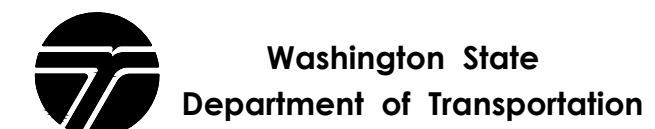
- SIGN LOCATION
- CHANNELIZATION DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TYPE 3 BARRICADE
- DIRECTION OF TRAVEL
- WORK AREA



Jan 31, 2025 - 8:38am X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC4

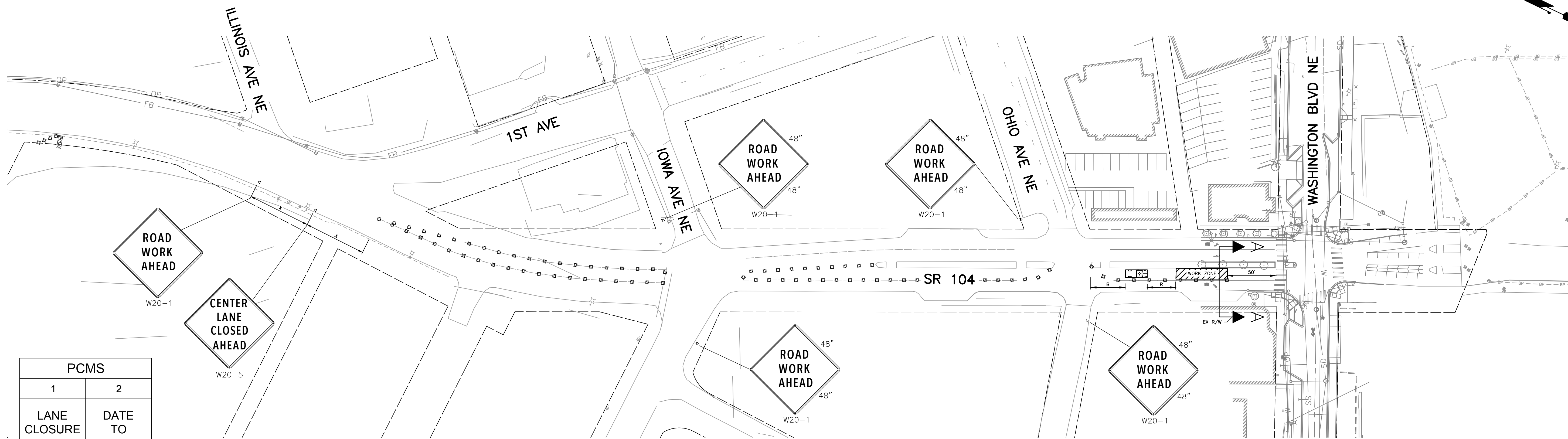
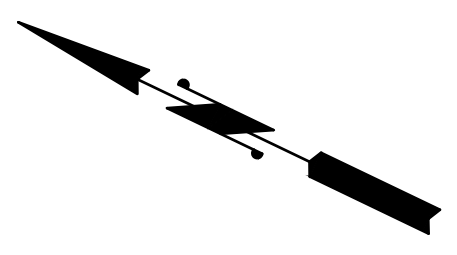
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TIME	Jan 31, 2025		
DATE	8:38am		
DESIGNED BY	K. WISEMAN		
ENTERED BY	N. EATON		
CHECKED BY	--		
PROJ. ENGR.	P. BUCHANAN		
REGIONAL ADM.		REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER		
20230139		
CONTRACT NO.	LOCATION NO.	
TA 7701		



SR 104	PLAN REF NO
SR 104 HOLDING LANES ATMS	TC4
KITSAP COUNTY	JANUARY 2025
TRAFFIC CONTROL PLAN STAGE A	SHEET 27 OF 28 SHEETS

SEC 22, T 24 N, R 4 E, W.M.



PCMS	
1	2
LANE CLOSURE AHEAD	DATE TO DATE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± PRIOR TO CLOSURE

**TRAFFIC CONTROL LEGEND:**

- SIGN LOCATION
- CHANNELIZATION DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TYPE 3 BARRICADE
- DIRECTION OF TRAVEL
- WORK AREA

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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

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

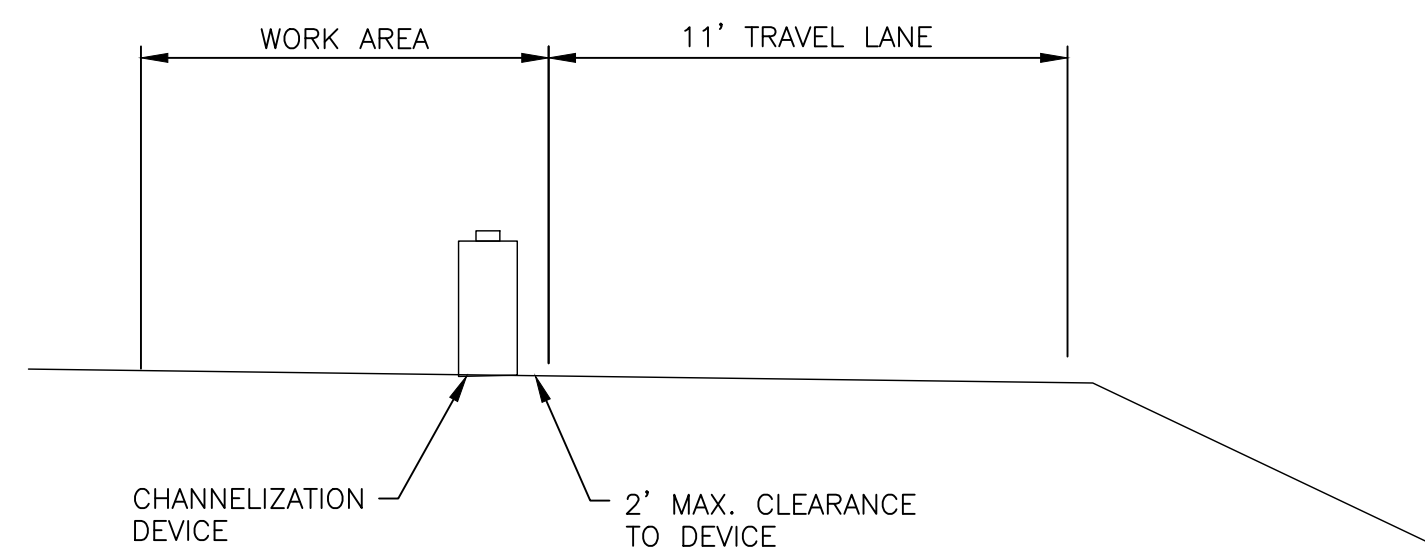
BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	50	55	60	65
LENGTH (feet)	155	200	250	305	360	425	495	570	645

PROTECTIVE VEHICLE (WORK VEHICLE) = R					
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.					
STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001± lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

**NOTES:**

- ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.
- WHEN USED DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20' O.C.
- ALLOWABLE WORK HOURS ARE TUESDAY-FRIDAY, 8:00 AM TO 6:00 PM.
- 3 LANES SHALL REMAIN OPEN ON SR 104 AT ALL TIMES.
- CONTRACTOR TO NOTIFY WASHINGTON STATE FERRIES FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
- CONTRACTOR TO NOTIFY WSDOT OLYMPIC REGION TMC FOR PUGET SOUND EXECUTIVE SERVICES COORDINATION DURING THIS PHASE.
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  - CLOSE ADJACENT SIDEWALK OR PATHWAY. PROVIDE PEDESTRIAN DETOUR, ALTERNATE ROUTE, OR FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK).
  - STOP WORK OPS. & ESCORT PEDESTRIANS THROUGH WORK AREA.
  - ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.
- BICYCLISTS ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
  - SHARED BICYCLE-VEHICLE LANE AND W11-15 MOD & R4-11 SIGNS.
  - BICYCLES PROHIBITED R5-6 SIGN(S). PROVIDE SIGNED DETOUR OR ALTERNATIVE ROUTE.
  - BICYCLES PROHIBITED VIA R5-6 SIGN(S). PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTRACT INFORMATION/HOLE BOX/LABORER.
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- MANDATORY: CONTRACT OR REGION RADIO APPROX. 5 MIN PRIOR TO START OF CLOSURE AND AGAIN IMMEDIATELY AFTER OPENING ROADWAY.
- IF FEASIBLE, AVOID PLACING SHOULDER CLOSURE TAPER WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL AND VERTICAL CREST CURVES.
- DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
- 28" TRAFFIC CONES, 36" TRAFFIC CONES, 42" TALL CHANNELIZING DEVICES, OR TRAFFIC SAFETY DRUMS ALLOWED ON TAPERS AND TANGENTS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- ADD W21-30 SERIES SIGNS (36"X36" MIN, 5' HEIGHT) @ X PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO OPEN LANES.



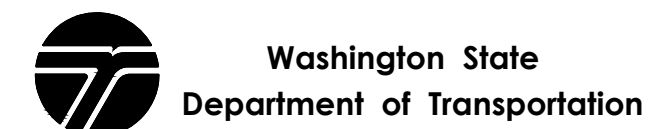
SECTION A-A  
N.T.S.



Jan 31, 2025 - 8:38am nancy.eaton X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC5

FILE NAME	X:\Kitsap County\Projects\20230139 - SR104 Holding Lanes - ATMS\CADD\02 - Plan Sheets\20230139 - TC.dwg Layout Name: TC5		
TIME	Jan 31, 2025		
DATE	8:38am		
DESIGNED BY	K. WISEMAN		
ENTERED BY	N. EATON		
CHECKED BY	--		
PROJ. ENGR.	P. BUCHANAN		
REGIONAL ADM.		REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STBGUM-CRRSAA-0104(068)
JOB NUMBER		
20230139		
CONTRACT NO.	LOCATION NO.	
TA 7701		



SR 104	SR 104 HOLDING LANES ATMS	PLAN REF NO	TC5
KITSAP COUNTY	JANUARY 2025	SHEET	28
	TRAFFIC CONTROL PLAN STAGE B	OF	28
		SHEETS	28