

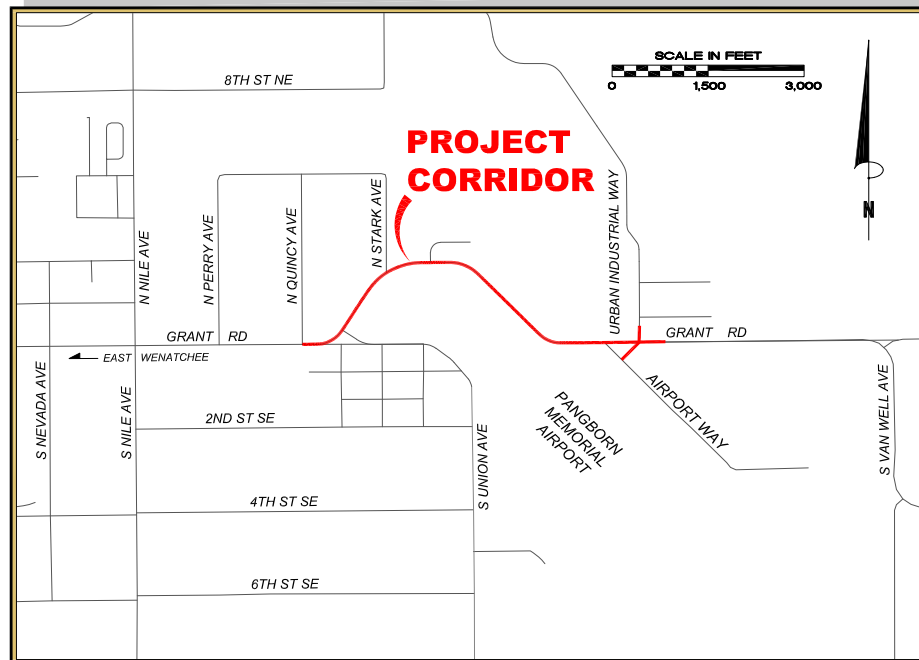
Construction Plans

COUNTY ROAD PROJECT (CRP) #1023 / ROAD #93130

GRANT RD RESURFACING - NORTH QUINCY AVE TO URBAN INDUSTRIAL WAY

Township 22N., Range 21E., W.M., Sections 8, 9, 16, 17

VICINITY MAP



DOUGLAS COUNTY PERSONNEL

MIKE NEER, P.E. CAPITAL PROGRAMS MANAGER (509) 884-7173 Ext. 6561
 AARON SIMMONS, P.E. COUNTY ENGINEER (509) 884-7173 Ext. 6547
 RILEY HAUG, OFFICE ENGINEER (509) 884-7173 Ext. 6586
 DARRIN NELSON, ENGINEERING DESIGNER (509) 884-7173 Ext. 6548
 JUSTIN ROOZEN, ENVIRONMENTAL MANAGER (509) 884-7173 Ext. 6573
 DEREK REYNOLDS, CONSTRUCTION INSPECTOR (509) 884-7173 Ext. 6568

LEGEND

EXISTING	
⊗ WATER VALVE	— PARCEL LINES
⊙ SEWER MANHOLE	— DOUGLAS COUNTY RIGHT OF WAY
⊕ STORMWATER MANHOLE	— EDGE OF PAVEMENT
⊞ STORMWATER CATCH BASIN	— WATER MAIN
● UTILITY POLE	— SANITARY SEWER
⊞ WATER METER	— UNDERGROUND TELEPHONE LINE
⊞ IRRIGATION VAULT	— UNDERGROUND POWER LINE
⊞ MAILBOX	— UNDERGROUND FIBER LINE
⊞ TELEPHONE BOX	— OVERHEAD POWER
⊞ TRAFFIC SIGN	— OVERHEAD CABLE TV
⊞ POWER TRANSFORMER	— OVERHEAD TELEPHONE LINE
⊙ FIRE HYDRANT	⊙ SURVEY MONUMENT CASE AND COVER

PROPOSED	
A5+00 CENTERLINE STATION	CONCRETE
■ DETECTABLE WARNING SURFACE	ASPHALT OVERLAY
	PLANNING BITUMINOUS PAVEMENT

UTILITIES

UTILITY	UTILITY NAME	CONTACT	PHONE
POWER	DOUGLAS COUNTY PUD	JED ZOOK	(509) 884-7191
TELEPHONE	ZIPLY FIBER, LLC	CHESNA KERNS	(509) 881-5352
CABLE TV	CHARTER COMMUNICATIONS	MICAH TEETERS	(509) 563-4902
WATER	E. WEN. WATER DIST.	COLBY THORPE	(509) 884-3569
IRRIGATION	UPPER COLUMBIA IRR. DISTRICT	CRAIG GYSELINCK	(509) 884-4042
SEWER	DOUGLAS CO. SEWER DISTRICT	KURT HOSMAN	(509) 884-2484

SHEET INDEX

DOUGLAS COUNTY TRANSPORTATION

C1	(1 of 20)	COVER SHEET AND VICINITY MAP
C11	(11 of 20)	TEMPORARY TRAFFIC CONTROL PLAN OVERVIEW
C12	(12 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - GRANT RD / S UNION EXIT LANE
C13	(13 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - GRANT RD / S UNION MIDDLE INTX LANE
C14	(14 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - GRANT RD / S UNION ENTRANCE LANE
C15	(15 of 20)	TEMPORARY TRAFFIC CONTROL PLAN - DOUBLE LANE CLOSURE WITH SHIFT - 4 LANE ROADWAY
C16	(16 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - ROUNDABOUT NW QUAD SLIP LANE
C17	(17 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - ROUNDABOUT NW QUAD
C18	(18 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - ROUNDABOUT NE QUAD
C19	(19 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - ROUNDABOUT SE QUAD
C20	(20 of 20)	TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING - ROUNDABOUT SW QUAD

GENERAL NOTES

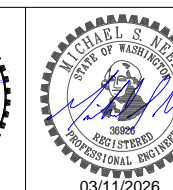
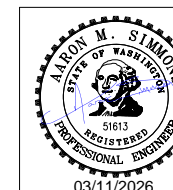
- The existing topographic and physical features shown on these plans are based on a combination of: record drawings and field survey from Douglas County, franchise utility company records, and field reconnaissance by the County. The Contractor may encounter variations between actual conditions and those shown on the plans.
- The location of existing underground utilities, including irrigation facilities, are shown in an approximate way only and have not been independently verified by the owner or the Engineer. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. See the Special Provisions for details regarding irrigation systems and utilities, geotechnical conditions, and hazardous materials.
- No construction related activity shall contribute to the degradation of the environment, allow material to enter surface or ground waters, or allow particulate emissions to the atmosphere, which exceed state or federal standards. Any actions that potentially allow a discharge to state waters must have prior approval of the Washington State Department of Ecology.

COMMISSIONERS

DAN SUTTON (CHAIR) DISTRICT 1
 RANDY AGNEW (VICE CHAIR) DISTRICT 2
 MARC S. STRAUB (COMMISSIONER) DISTRICT 3



Project Datum NAD 1983/91
 Washington Plane Coordinate System,
 North Zone U.S. Survey Feet.
 Multiply distances by
 1.000025886 to convert to ground.
 Vertical - NAVD 1988



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN
 DRAWN BY: DPN / GTP

**Grant Rd Resurfacing -
 North Quincy Ave to
 Urban Industrial Way**



DOUGLAS COUNTY
 TRANSPORTATION & LAND SERVICES
 140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

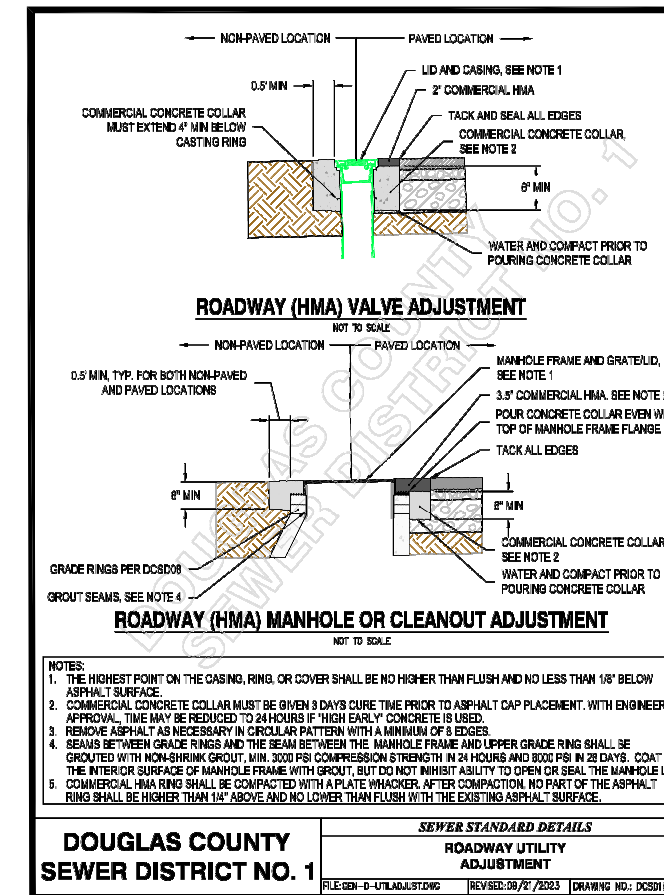
**COVER SHEET
 AND
 VICINITY MAP**

DRAWING NAME:
 1023_COV
 PROJECT NO.
 CRP 1023

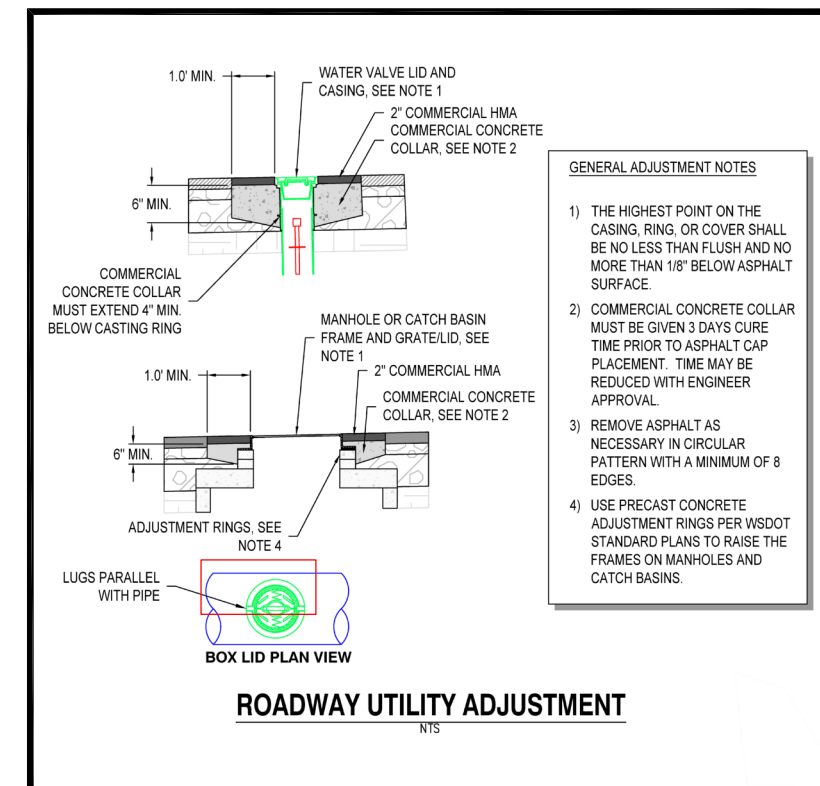
C1

SUMMARY OF QUANTITIES

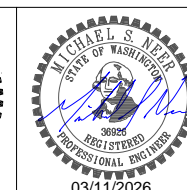
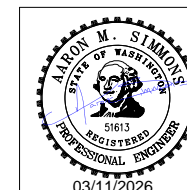
ITEM NO.	TOTAL QUANTITY	SUB-TOTAL SECTION 1-07.2(1) STANDARD SPECS	SUB-TOTAL SECTION 1-07.2(2) STANDARD SPECS	UNIT	ITEM	GROUP 1 DOUGLAS COUNTY	GROUP 2 EAST WENATCHEE WATER DISTRICT	GROUP 3 DOUGLAS COUNTY SEWER DISTRICT
PREPARATION								
1	LUMP SUM	LUMP SUM	LUMP SUM	L.S.	Mobilization	LUMP SUM	LUMP SUM	LUMP SUM
2	93	93		L.F.	Sawcutting	93		
3	55.6	55.6		S.Y.	Removing Cement Conc. Curb Ramp	55.6		
4	32.8	32.8		S.Y.	Removing Cement Conc. Sidewalk	32.8		
5	91	91		L.F.	Removing Cement Conc. Curb and Gutter	91		
6	16	16		L.F.	Removing Cement Conc. Pedestrian Curb	16		
7	8	8		Each	Remove & Reinstall Monument Case & Cover	8		
GRADING								
8	2,200	2,200		S.Y.	Pavement Repair Excavation Incl. Haul	2,200		
SURFACING								
9	170	170		Ton	Crushed Surfacing Top Course	170		
HOT MIX ASPHALT								
10	13,850	13,850		S.Y.	Planing Bituminous Pavement	13,850		
11	500	500		Ton	HMA for Pavement Repair Cl. 1/2 In. PG 64H-28	500		
12	5,700	5700		Ton	HMA Cl. 1/2 In. PG 64H-28	5,700		
13	Calc.	Calc.		Calc.	Compaction Price Adjustment			-\$1.00
14	Calc.	Calc.		Calc.	Job Mix Compliance Adjustment			-\$1.00
EROSION								
15	1	1		Est.	Erosion/Water Pollution Control	\$5,000.00		
TRAFFIC								
16	1.15	1.15		Mile	Centerline Rumble Strip	1.15		
17	91	91		L.F.	Cement Conc. Traffic Curb and Gutter	88		
18	43	43		L.F.	Cement Conc. Pedestrian Curb	43		
19	Lump Sum	Lump Sum		L.S.	Pavement Marking	Lump Sum		
20	30,400	30,400		L.F.	Temporary Pavement Marking - Short Term	30,400		
21	1,920	1,920		HR	Portable Changeable Message Sign	1,920		
22	Lump Sum	Lump Sum		L.S.	Project Temporary Traffic Control	Lump Sum	Lump Sum	Lump Sum
23	Lump Sum	Lump Sum		L.S.	Pedestrian Traffic Control	Lump Sum		
OTHER ITEMS								
24	3	3		Each	Cement Conc. Curb Ramp Type Combination	3		
25	3	3		Each	Cement Conc. Curb Ramp Type Parallel	3		
26	1	1		Each	Cement Conc. Curb Ramp Type Single Direction	1		
27	18	18		S.F.	Detectable Warning Surface	18		
28	3	2	1	Each	Lower and Raise Manhole	2		1
29	32	10	22	Each	Raise Manhole	10		22
30	5		5	E.A.	Raise and Lower Water Valve		5	
31	22		22	E.A.	Raise Water Valve		22	
32	LUMP SUM	LUMP SUM	LUMP SUM	L.S.	SPCC Plan	LUMP SUM	LUMP SUM	LUMP SUM
33	LUMP SUM	LUMP SUM		L.S.	ADA Feature Surveying	LUMP SUM		
34	LUMP SUM	LUMP SUM	LUMP SUM	L.S.	Record Drawings (Minimum Bid \$1,000.00)	LUMP SUM	LUMP SUM	LUMP SUM
35	1	1		EST.	Minor Change	\$5,000.00		



SEWER MANHOLE ADJUSTMENT DETAIL



WATER VALVE ADJUSTMENT DETAIL



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN
 DRAWN BY: DPN / GTP

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DOUGLAS COUNTY
 TRANSPORTATION & LAND SERVICES
 140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

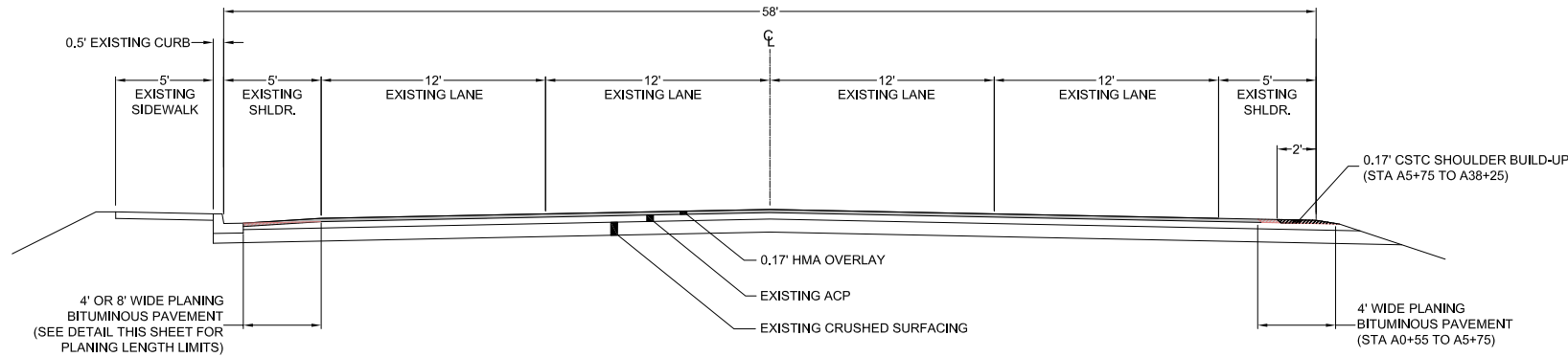
**SUMMARY OF QUANTITIES
 AND SEWER MANHOLE /
 WATER VALVE ADJUSTMENT DETAILS**

DRAWING NAME:
1023_DET

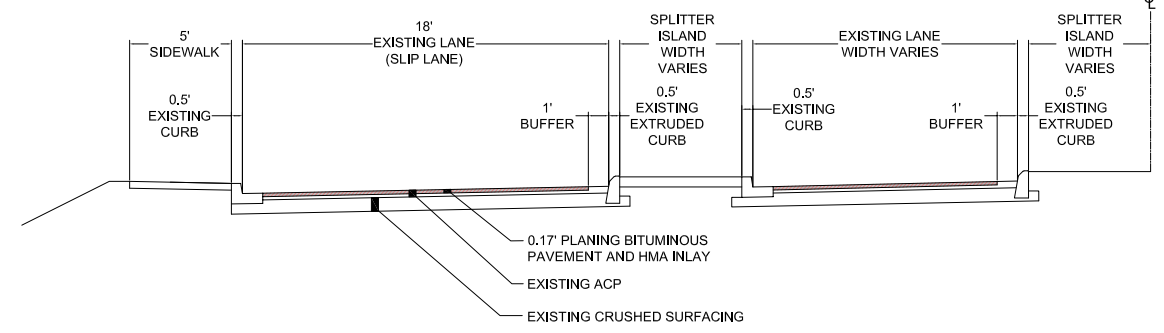
PROJECT NO.
CRP 1023

C2

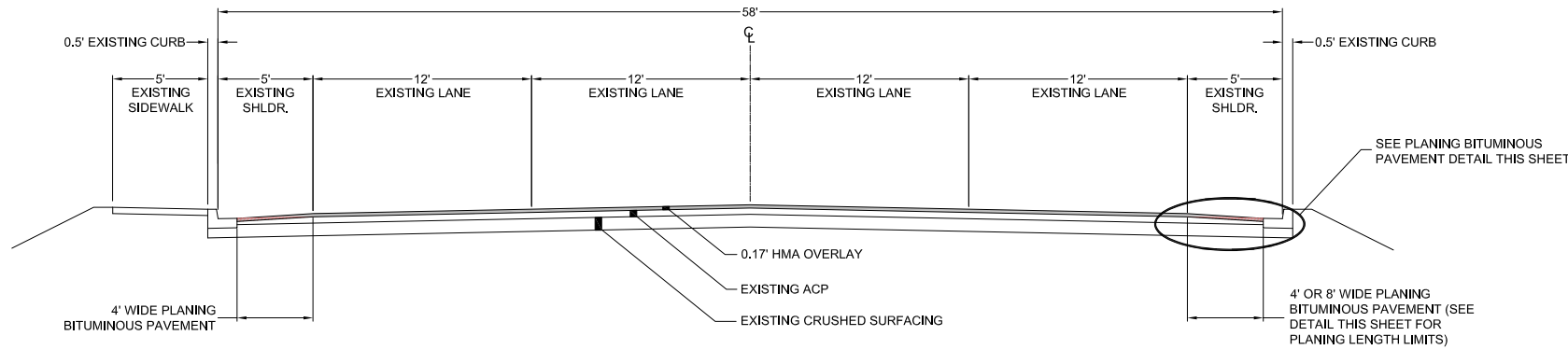
Sheet 2 of 20



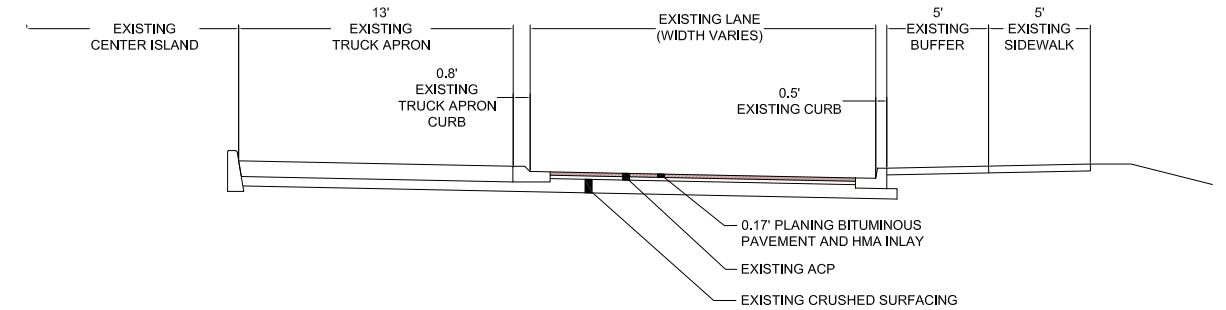
ROADWAY SECTION - 1
 STA A0+55 TO STA A5+75 (RT SHOULDER GRIND)
 STA A5+75 TO STA A38+25



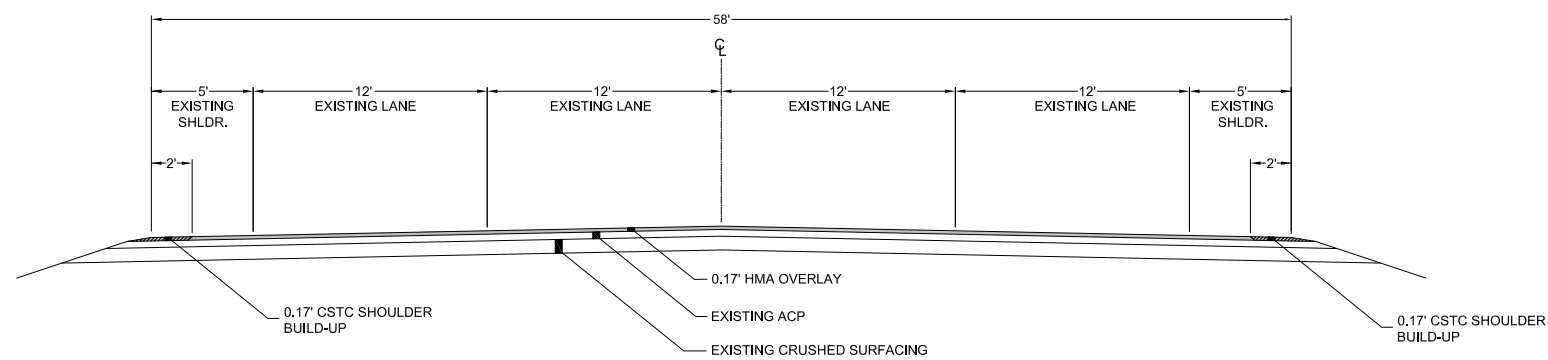
ROADWAY SECTION - 4
 STA A61+40 TO STA A63+12 (SPLITTER ISLAND INLAY)
 STA A64+60 TO STA A68+37 (EOP)
 STA B3+71 TO STA B4+53
 STA B5+98 TO B6+68



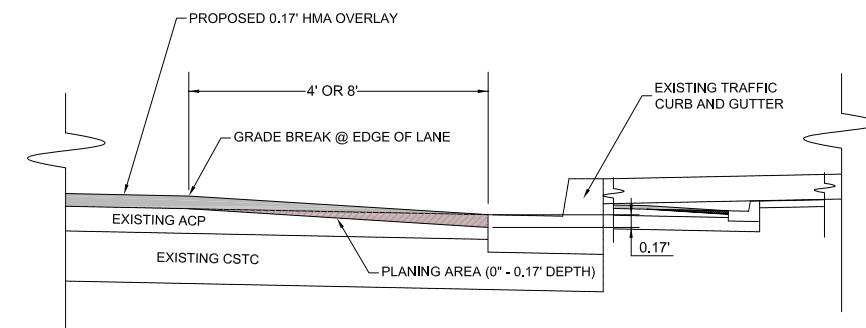
ROADWAY SECTION - 2
 STA A38+25 TO STA A55+00



ROADWAY SECTION - 5
 A63+12 TO 64+68 (ROUNDBOUT CIRCULATORY LANE)

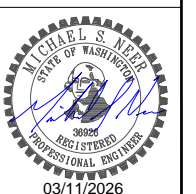
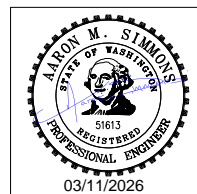


ROADWAY SECTION - 3
 STA A55+00 TO STA A61+40



PLANING BITUMINOUS PAVEMENT DETAIL

NO SCALE
 8' PLANING AREA STA 2+98 RT TO 5+77 RT
 8' PLANING AREA STA 15+17 LT TO 25+00 LT
 8' PLANING AREA STA 29+65 LT TO 34+36 LT
 8' PLANING AREA STA 47+98 RT TO 51+56 RT



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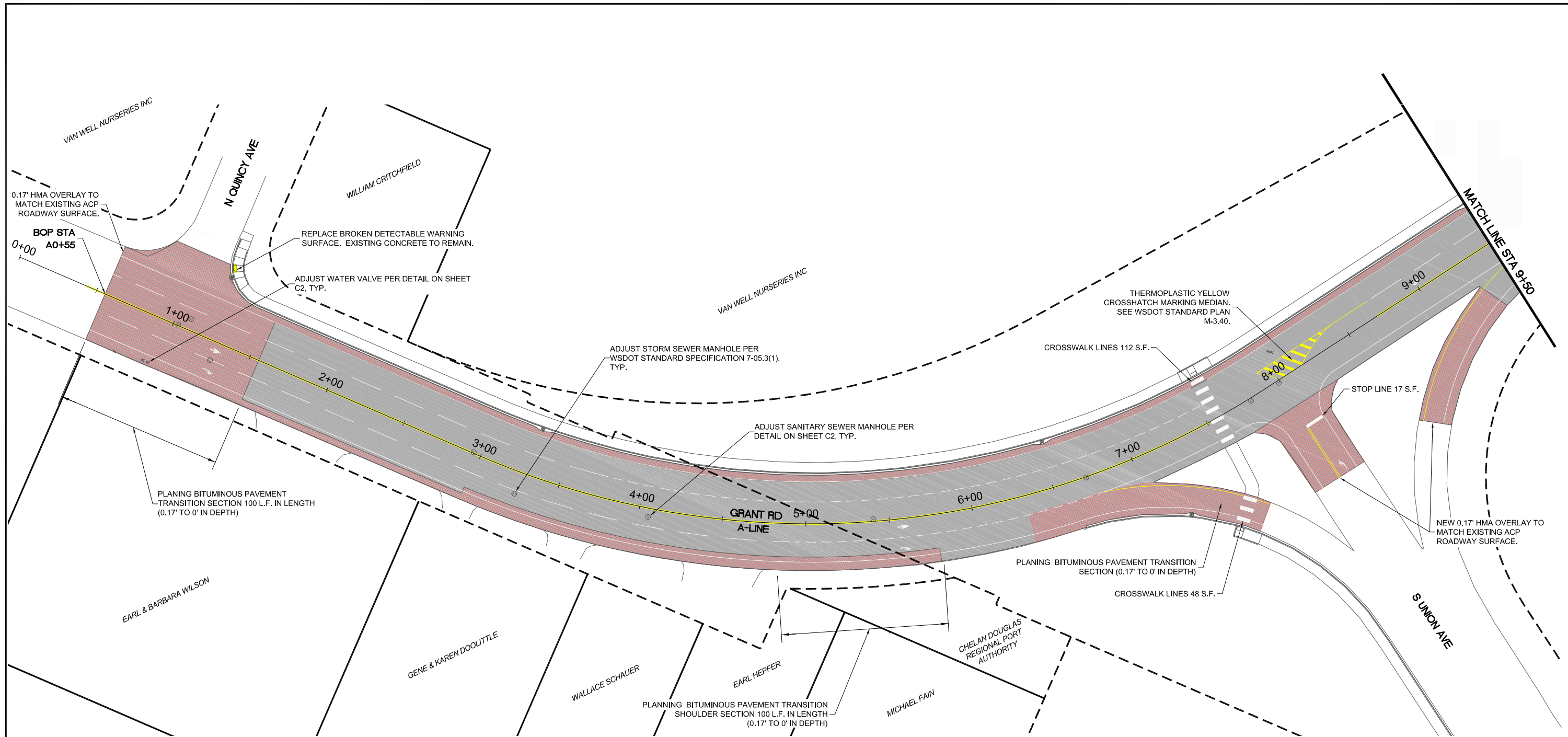


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ROADWAY SECTIONS AND DETAILS

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 1023_COV
 PROJECT NO.
 CRP 1023

C3
 Sheet 3 of 20

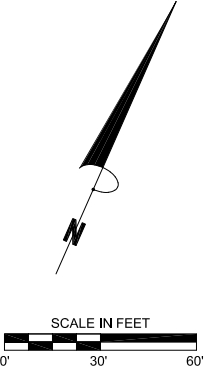


PAVEMENT MARKING LEGEND

	PAINTED DOUBLE CENTER LINE		PLASTIC TYPE 1 TRAFFIC ARROW
	PAINTED EDGE AND LANE LINE		PLASTIC TYPE 2R TRAFFIC ARROW
	PAINTED BROKEN LANE LINE		PLASTIC CROSSWALK LINES
	PAINTED DOTTED EXTENSION LINE		
	PLASTIC STOP LINE		
	PLASTIC BICYCLE LANE SYMBOL		

PAVEMENT MARKING NOTES

1. ALL CROSSWALK LINES, STOP LINES, TURN ARROWS, BICYCLE LANE SYMBOLS, AND MEDIANS SHALL BE TYPE-B PRE-FORMED FUSED THERMOPLASTIC.
2. ALL LONGITUDINAL PAVEMENT MARKING LINES SHALL HAVE GLASS BEADS PER THE 2025 WSDOT STANDARD SPECIFICATIONS MANUAL.
3. INSTALL CENTERLINE RUMBLE STRIP ALONG A-LINE CENTERLINE PER WSDOT STANDARD PLAN M-65.10



03/11/2026

03/11/2026

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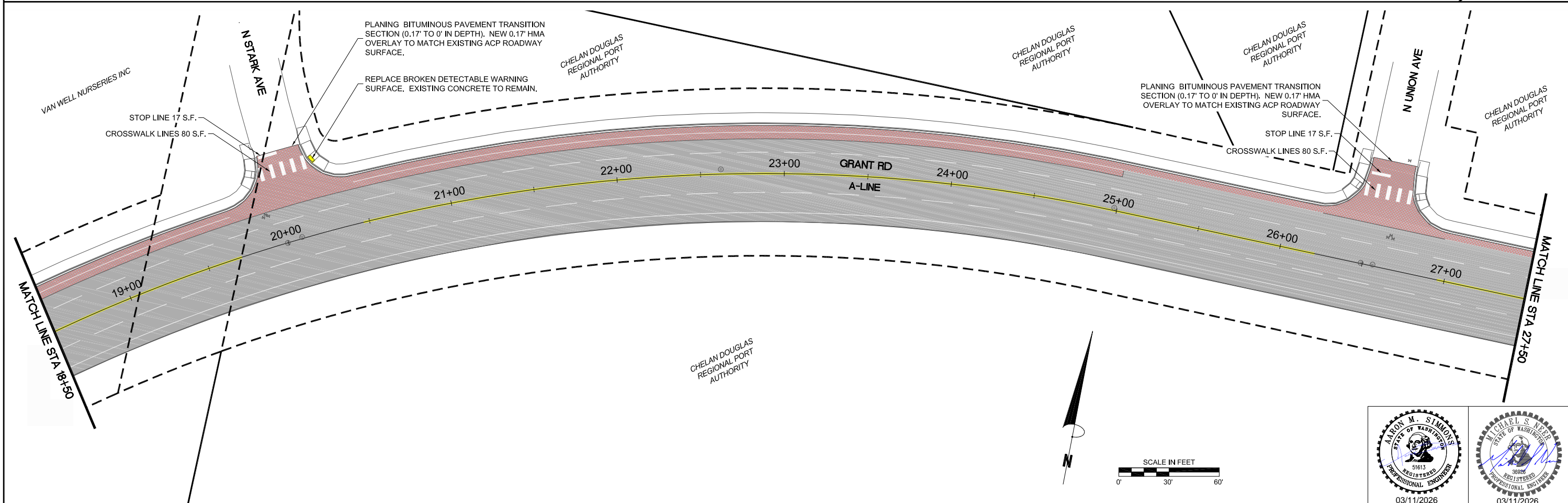
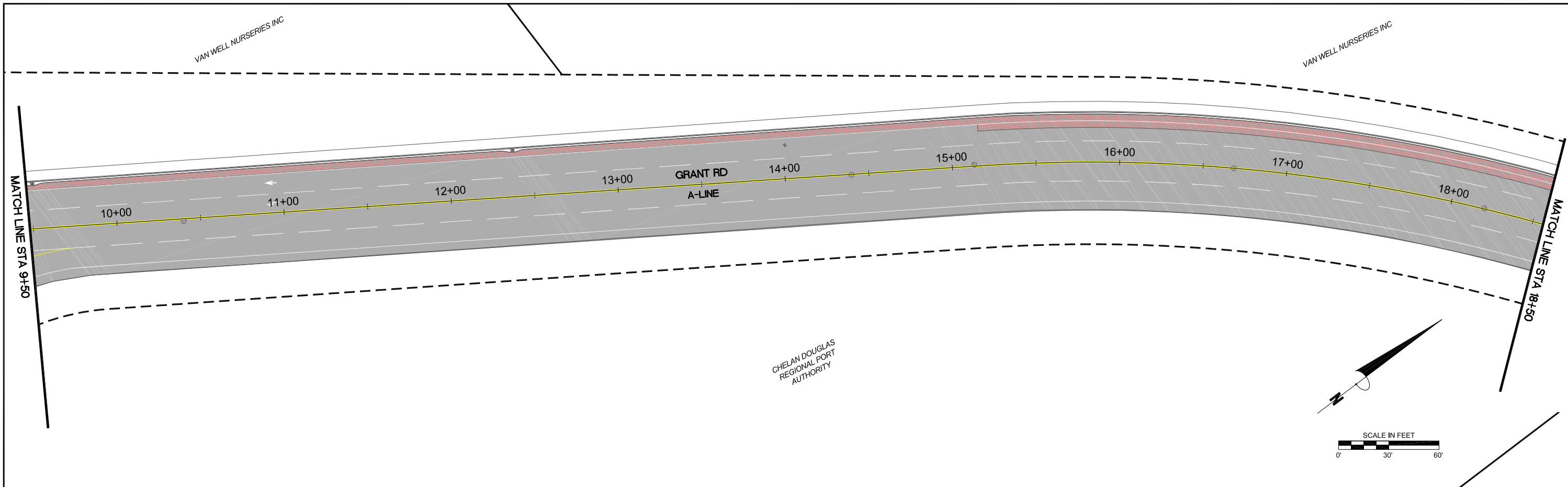
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Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way

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PLANING AND PAVING PLAN (BOP) STA A0+55 TO A9+50

DRAWING NAME: 1023_VFG_A_LINE
 PROJECT NO. CRP 1023
C4
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**Grant Rd Resurfacing -
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 Urban Industrial Way**

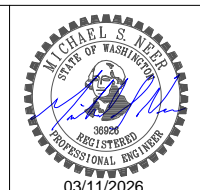
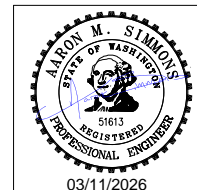


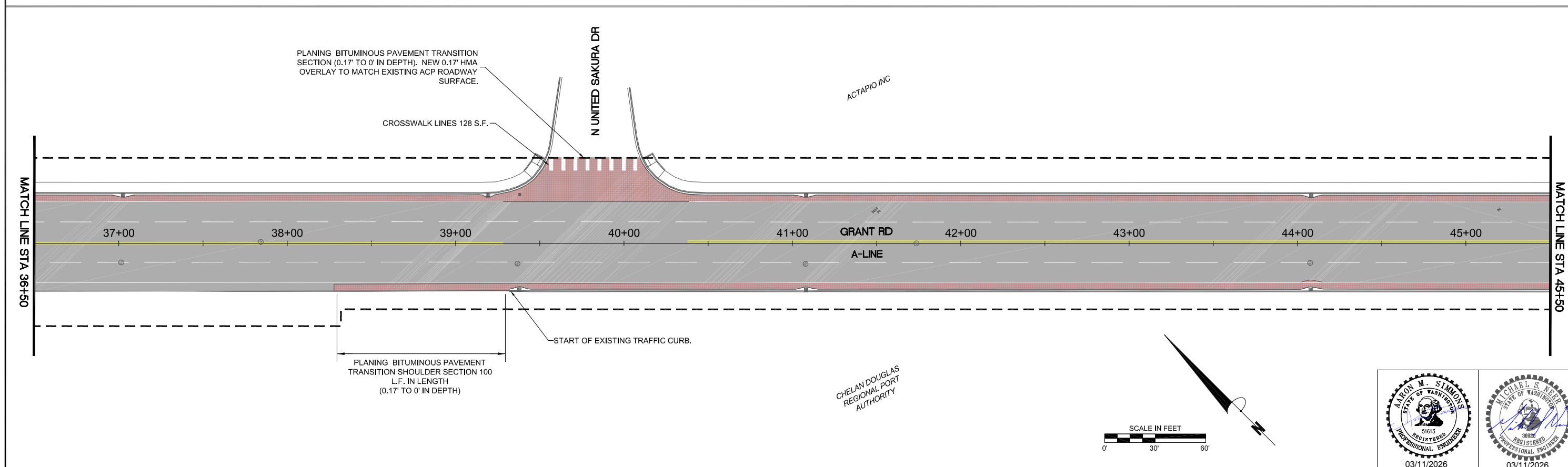
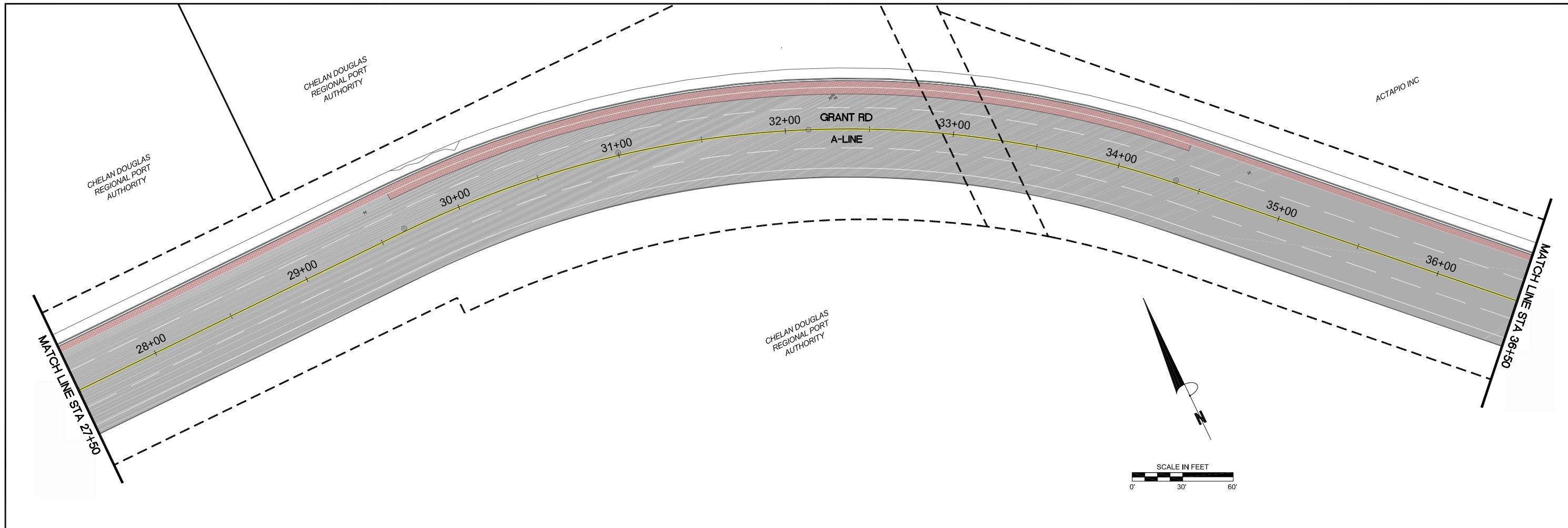
DOUGLAS COUNTY
 TRANSPORTATION & LAND SERVICES
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**PLANING AND PAVING PLAN
 STA A9+50 TO A27+50**

DRAWING NAME:
 1023_VFG_A_LINE
 PROJECT NO.
 CRP 1023

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 Sheet 5 of 20





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**Grant Rd Resurfacing -
 North Quincy Ave to
 Urban Industrial Way**

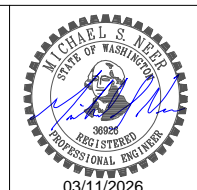
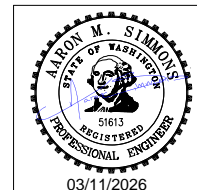


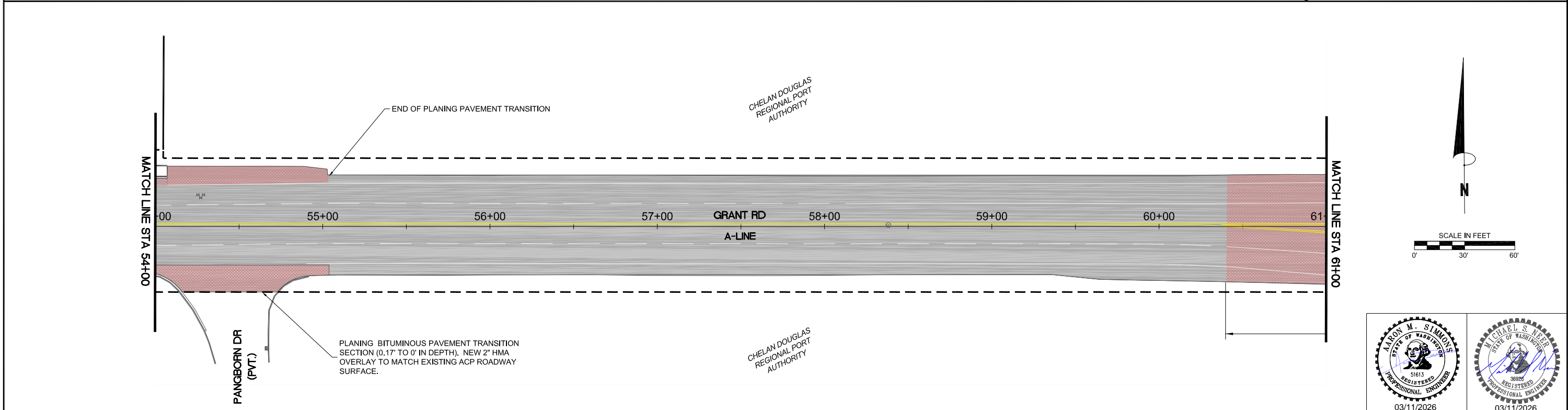
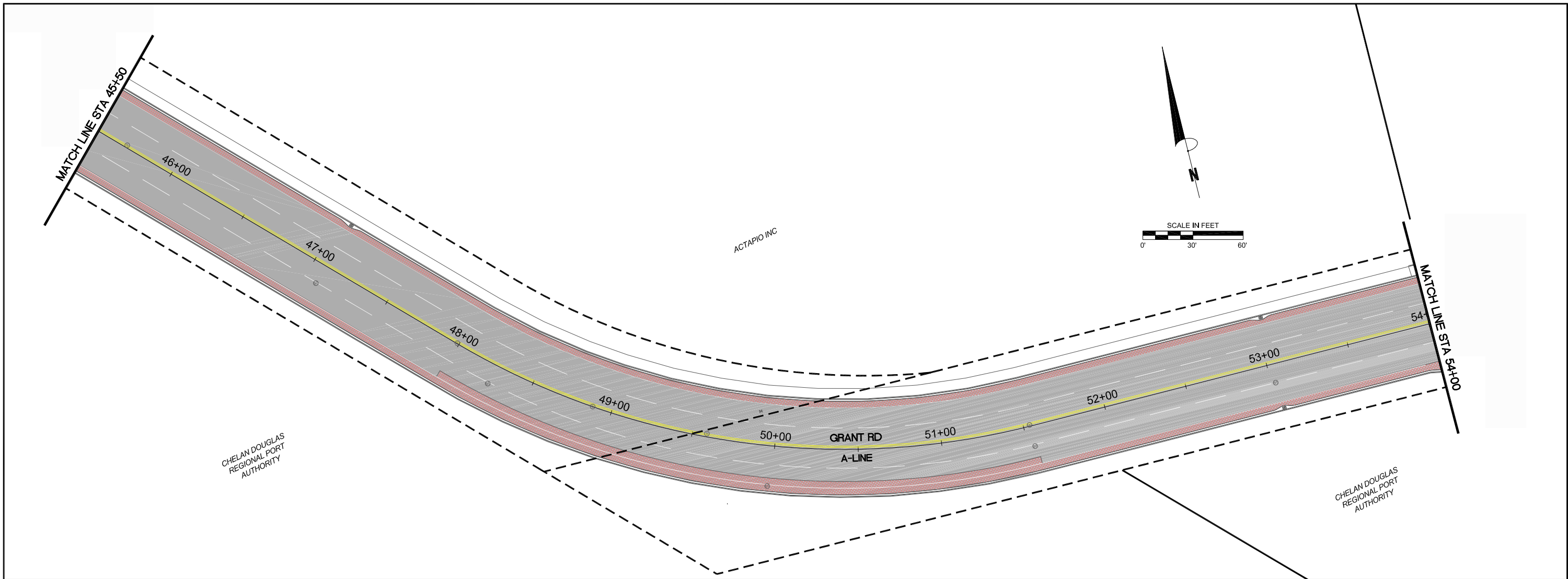
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**PLANING AND PAVING PLAN
 STA A27+50 TO A45+50**

DRAWING NAME:
 1023_VFG_A_LINE
 PROJECT NO.
 CRP 1023

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 Sheet 6 of 20





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 North Quincy Ave to
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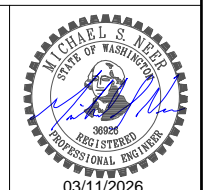
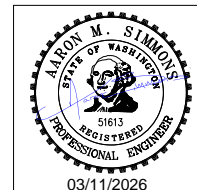


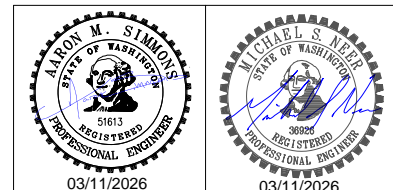
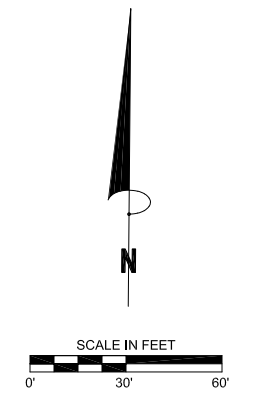
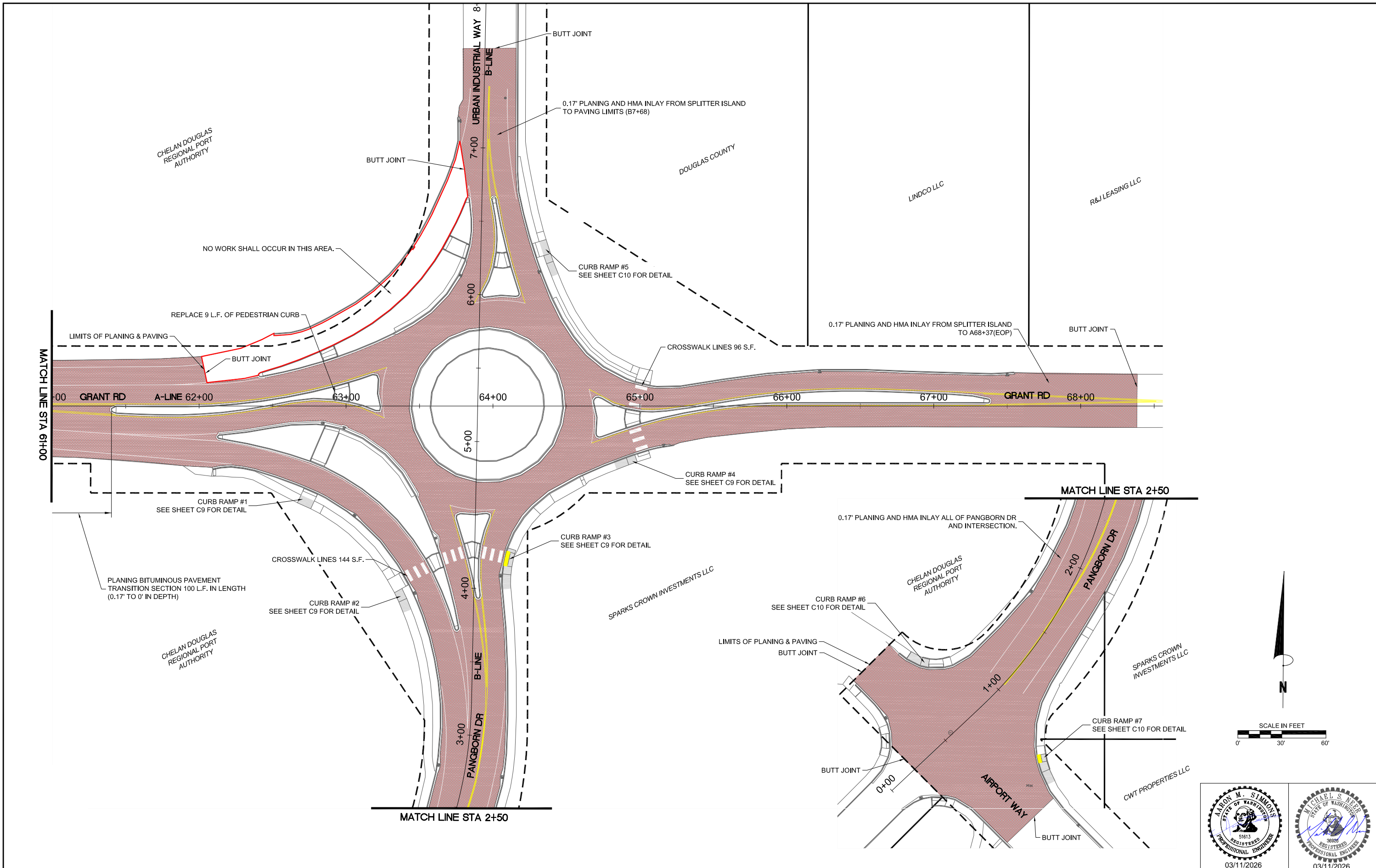
DOUGLAS COUNTY
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**PLANING AND PAVING PLAN
 STA A45+50 TO A61+00**

DRAWING NAME:
 1023_VFG_A_LINE
 PROJECT NO.
 CRP 1023

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 Sheet 7 of 20





NO.	REVISION	BY	DATE

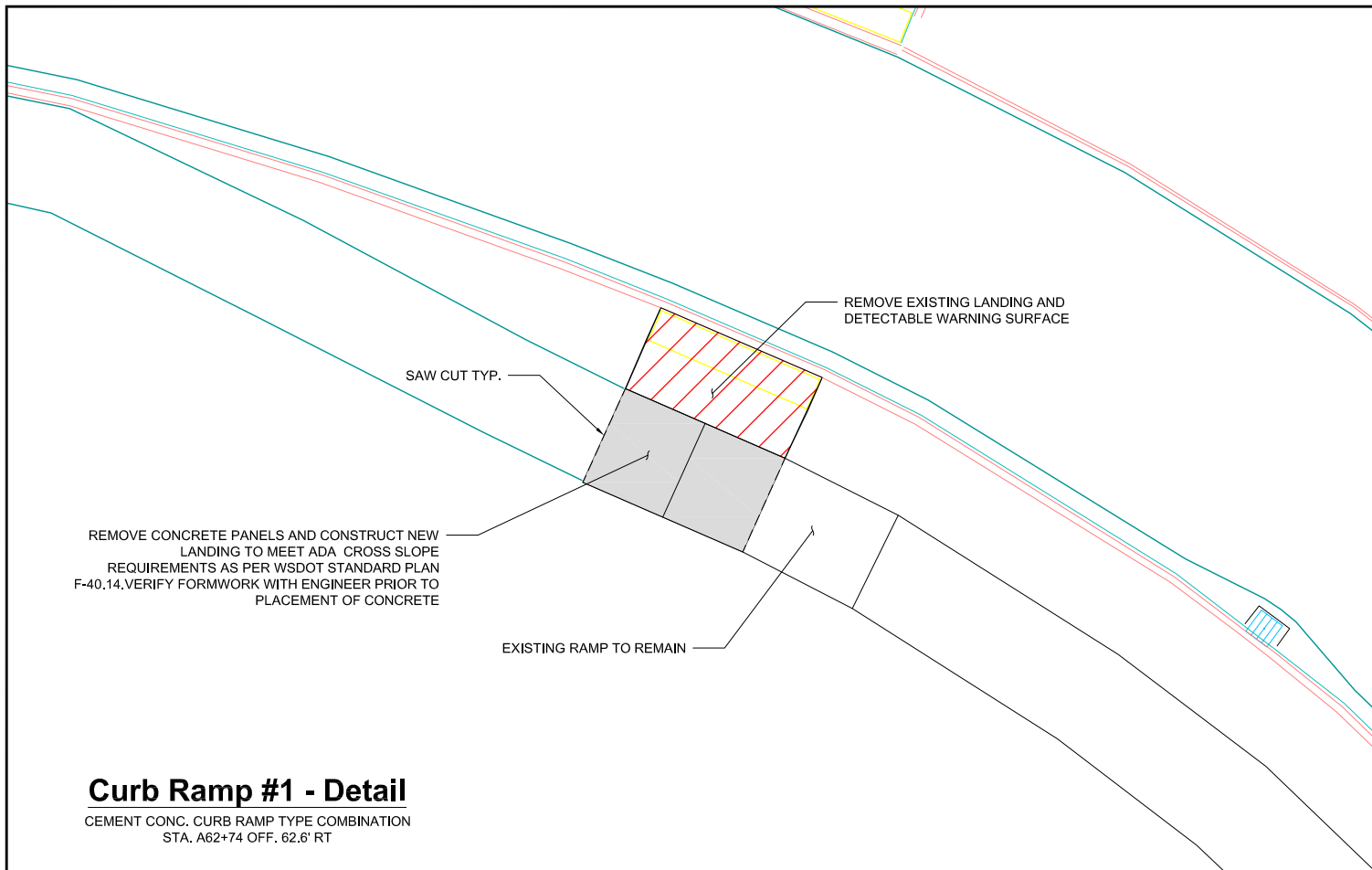
PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN
 DRAWN BY: DPN / GTP

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



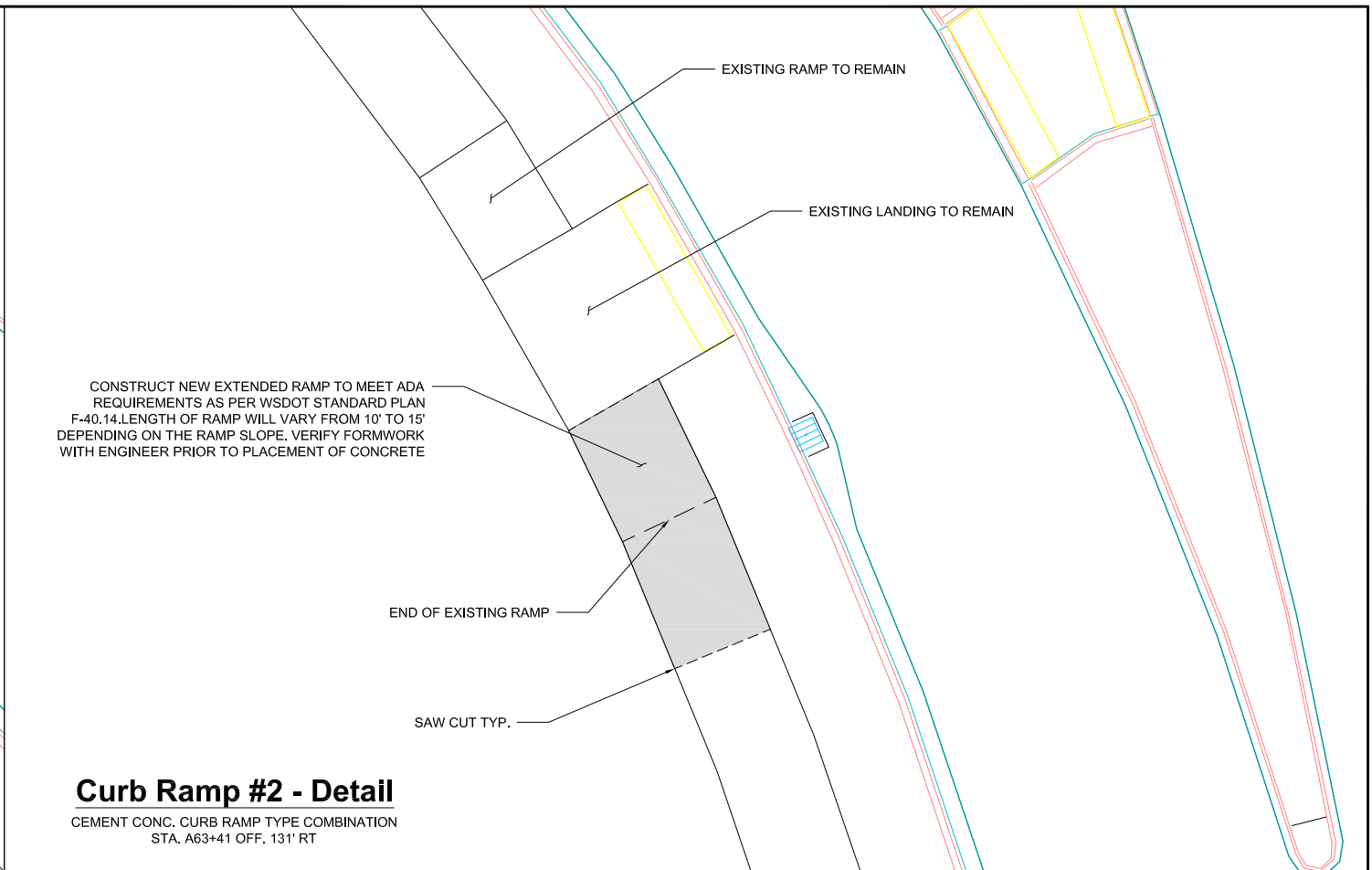
**PLANING AND PAVING PLAN
 STA A61+00 TO 68+37 (EOP) AND B-LINE**

DRAWING NAME: 1023_VFG_A_LINE
 PROJECT NO. CRP 1023



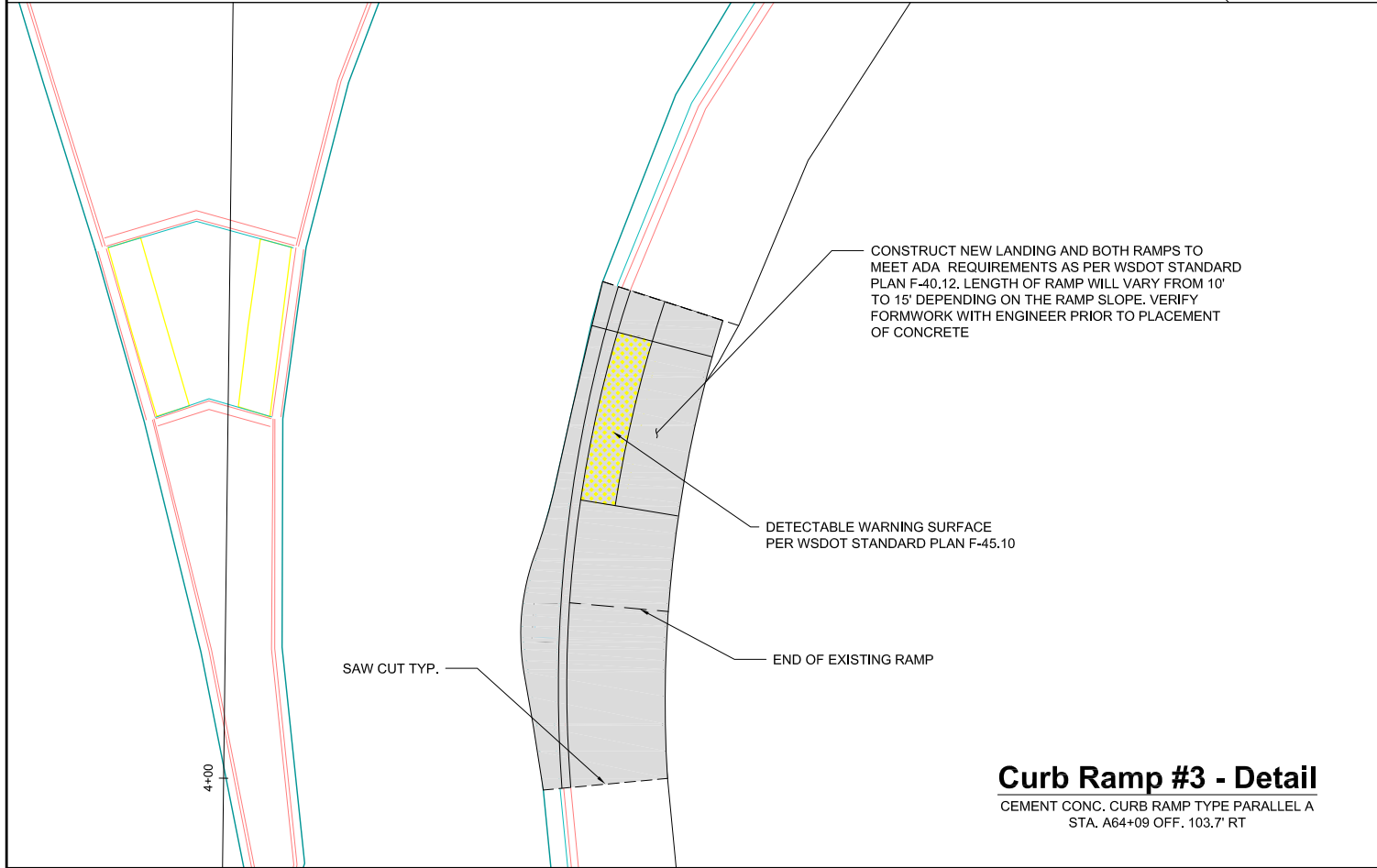
Curb Ramp #1 - Detail

CEMENT CONC. CURB RAMP TYPE COMBINATION
STA. A62+74 OFF. 62.6' RT



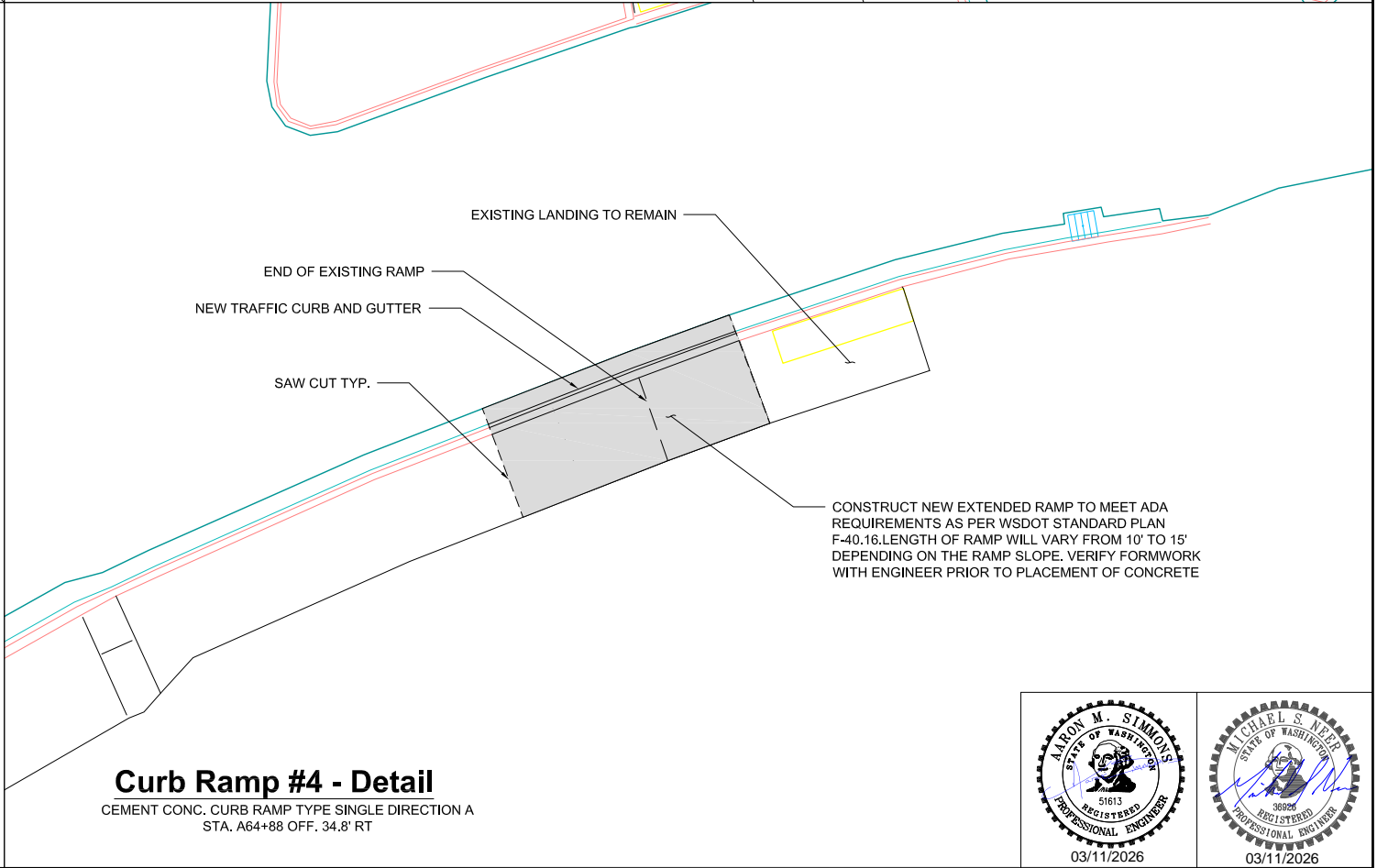
Curb Ramp #2 - Detail

CEMENT CONC. CURB RAMP TYPE COMBINATION
STA. A63+41 OFF. 131' RT



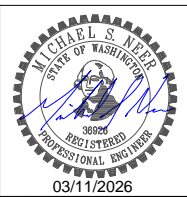
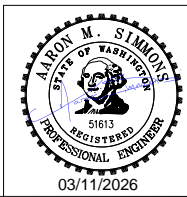
Curb Ramp #3 - Detail

CEMENT CONC. CURB RAMP TYPE PARALLEL A
STA. A64+09 OFF. 103.7' RT



Curb Ramp #4 - Detail

CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A
STA. A64+88 OFF. 34.8' RT



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
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DRAWN BY: RBH

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way

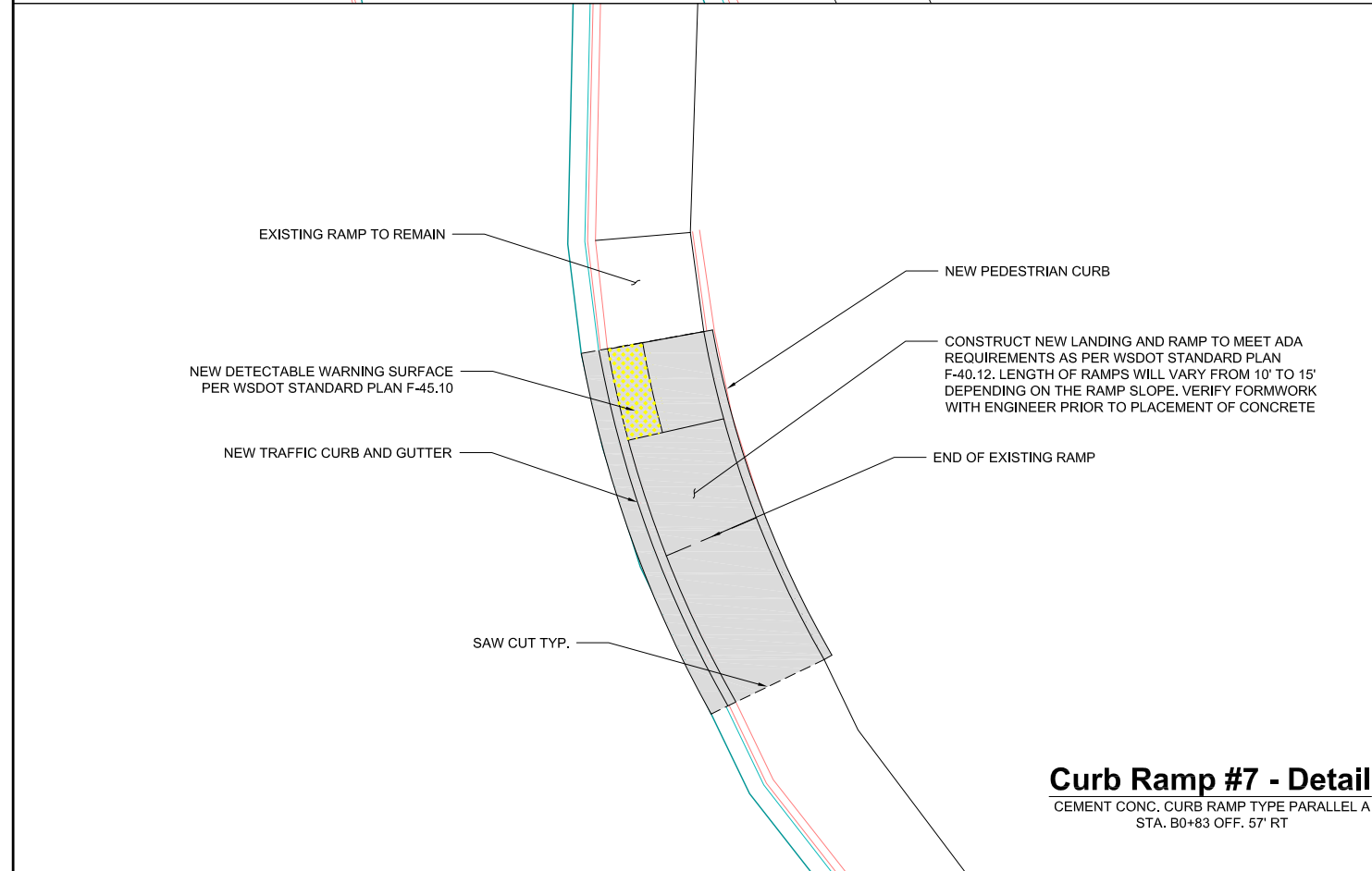
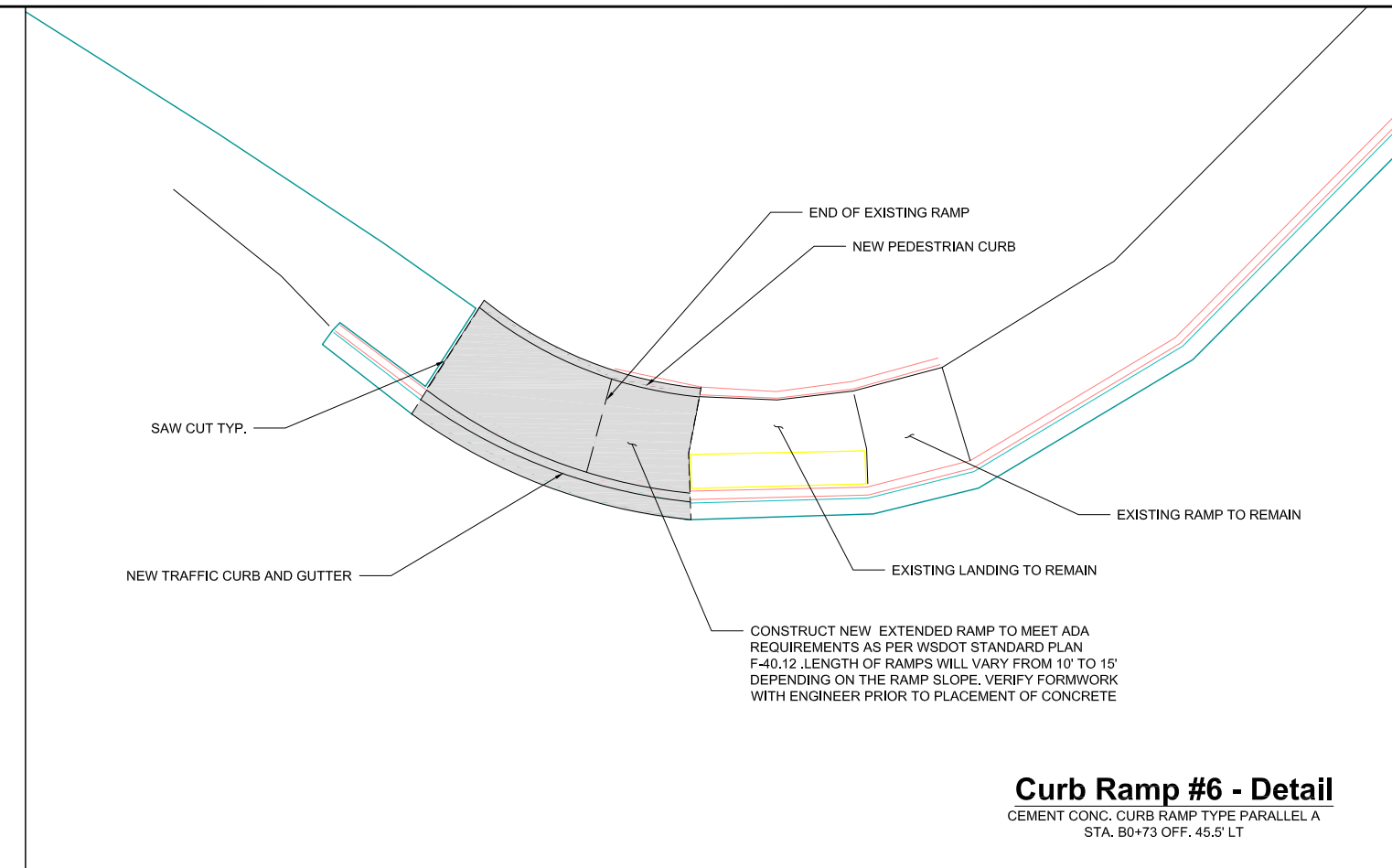
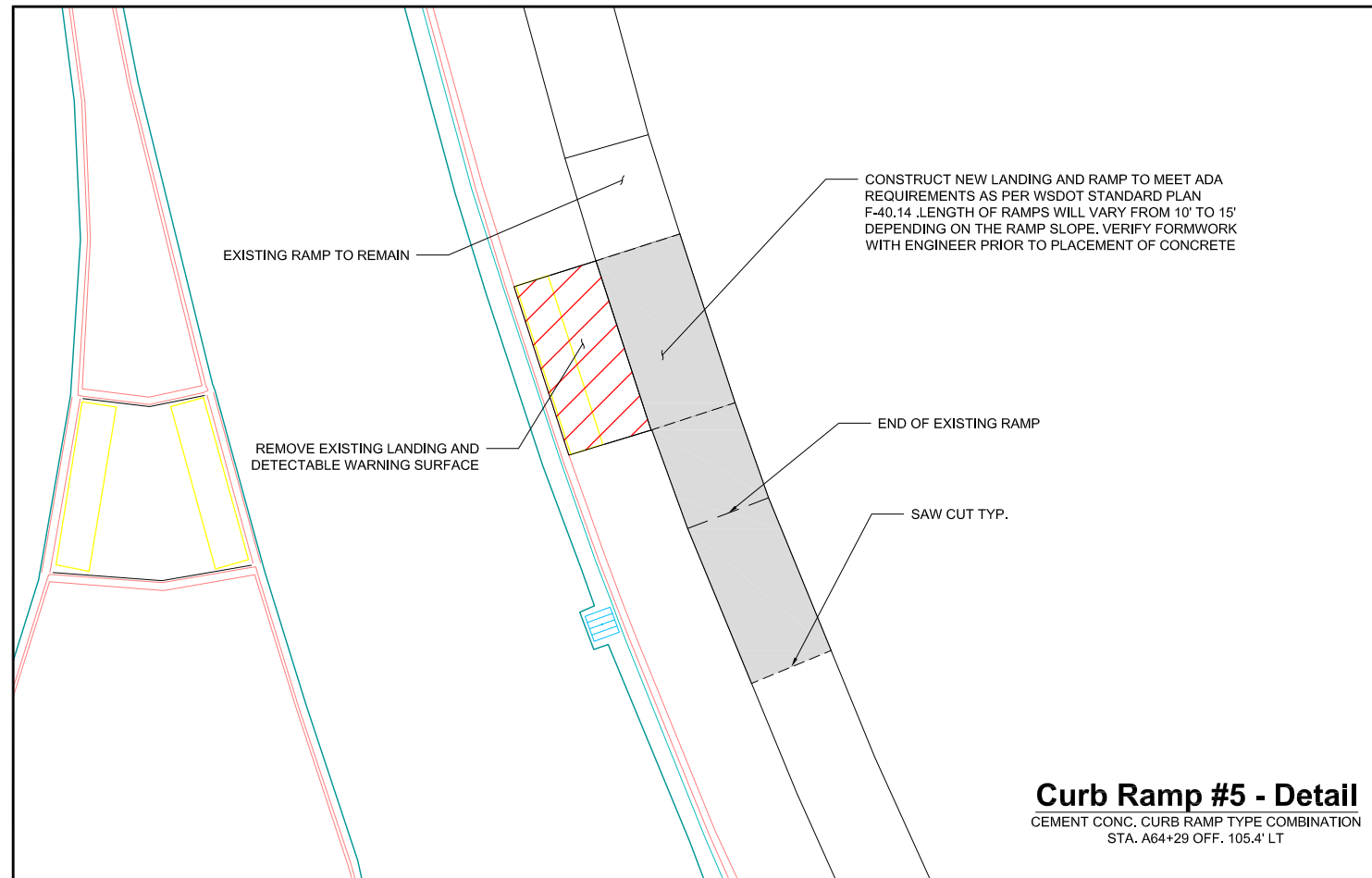


DOUGLAS COUNTY
TRANSPORTATION & LAND SERVICES
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CURB RAMPS #1-#4 DETAILS

DRAWING NAME: 1023_RAMPS
PROJECT NO. CRP 1023

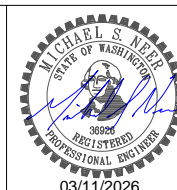
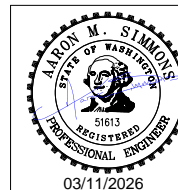
C9
Sheet 9 of 20



CURB RAMP REPLACEMENT SCHEDULE

CURB RAMP #	REMOVAL QUANTITIES					INSTALLATION QUANTITIES			
	SAWCUT (L.F.)	CURB RAMP (LANDING/RAMP) (S.Y.)	TRAFFIC CURB AND GUTTER (L.F.)	PEDESTRIAN CURB (L.F.)	SIDEWALK (S.Y.)	CSTC (T.N.)	CR (LANDING/RAMP) (S.Y.)	TRAFFIC CURB AND GUTTER (L.F.)	PEDESTRIAN CURB (L.F.)
1	12	11.80	N/A	N/A	N/A	1.50	6.50	N/A	N/A
2	12	4.80	N/A	N/A	5.20	2.00	10.00	N/A	N/A
3	14	11.30	29	N/A	6.30	4.50	17.60	29	N/A
4	13	3.40	15	N/A	5.00	2.30	8.30	15	N/A
5	13	14.10	10	N/A	5.00	4.30	19.10	10	N/A
6	15	3.20	16	5.00	5.80	2.60	9.10	16	14
7	14	7.00	21	11.00	5.50	3.50	12.60	21	20
TOTALS	93	55.60	91	16	32.80	20.70	83.20	91	34.00

NOTE:
QUANTITIES BASED ON CONSTRUCTION OF 15' RAMP.
ACTUAL QUANTITIES TO CONSTRUCT RAMP TO MEET ADA REQUIREMENTS MAY VARY.



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
DESIGNER: RBH
DRAWN BY: RBH

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



CURB RAMP #5 - #7 DETAILS AND REPLACEMENT SCHEDULE

DRAWING NAME: 1023_RAMPS
PROJECT NO. CRP 1023

C10
Sheet 10 of 20

10th ST NE



1



2



3



4



5



G20-1 18\"x36\" 6



7



8



9



10



11

NOTES

1. CONSTRUCTION SIGNS SHOWN ARE CLASS B - UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR SHALL MAINTAIN SIGNS DURING THE DURATION OF THE PROJECT.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENTIAL DRIVEWAYS DURING THE DURATION OF THE PROJECT.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
5. ALL SIGNAGE AND SPACING MUST CONFORM TO THE CURRENT EDITION OF THE MUTCD. SIGNAGE AND SPACING SHOWN ON PLAN SHEET IS NOT TO SCALE.
6. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL DISPLAY "ROAD WORK AHEAD" AND "EXPECT DELAYS".

LEGEND

PROJECT CORRIDOR

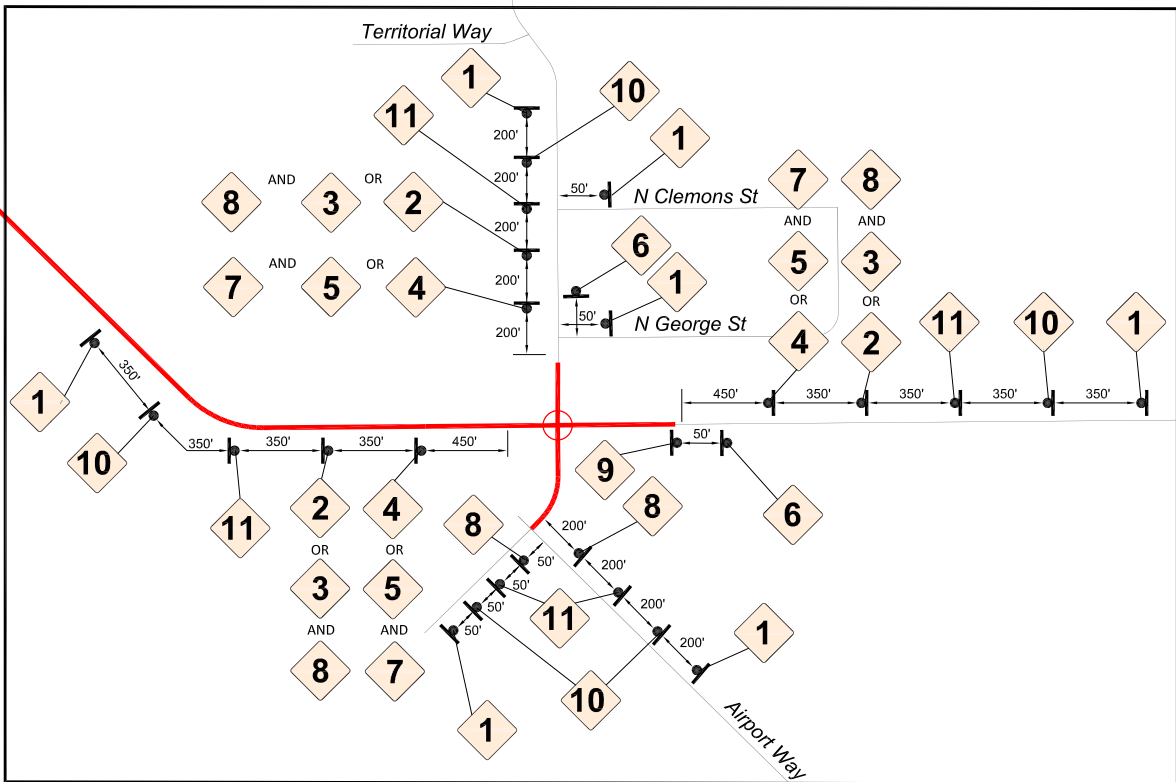
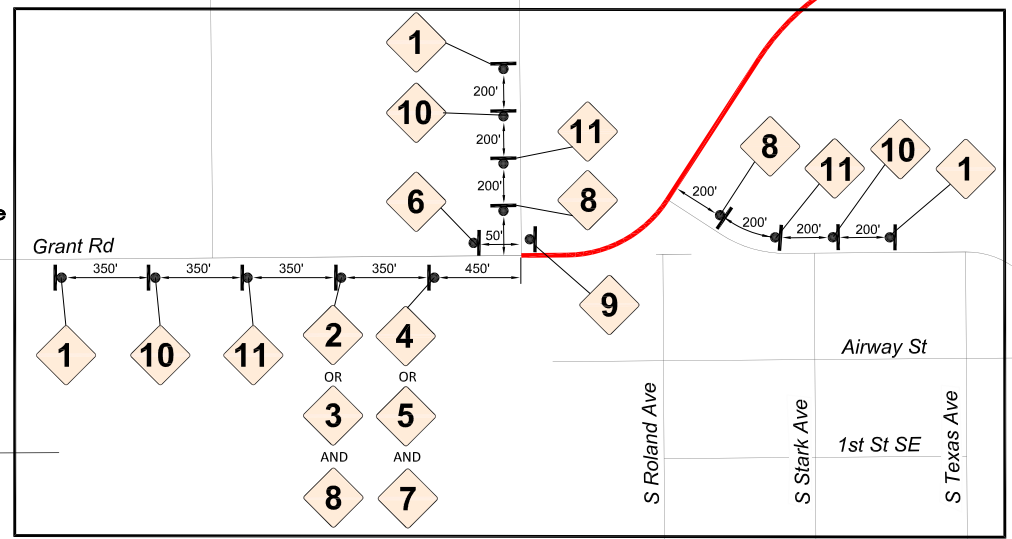


CLASS B SIGNS



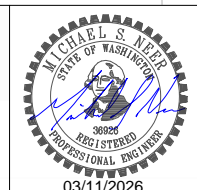
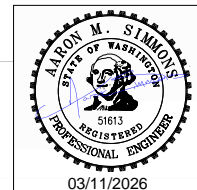
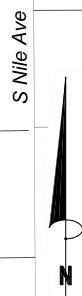
PHASE 2 TRAFFIC CONTROL (GRANT RD SINGLE LANE CLOSURE) SEE SHEETS C15 FOR SIGNAGE AND CHANNELIZATION LAYOUT

PHASE 3 TRAFFIC CONTROL (GRANT RD AND URBAN INDUSTRIAL WAY ROUNDABOUT) SEE SHEETS C16 THROUGH C20 FOR FLAGGER LOCATIONS AND CHANNELIZATION LAYOUT



PCMS-1 Grant Rd/Kentucky Ave 1.0 Miles

PCMS-2 Batterman Rd 2.5 Miles



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



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TEMPORARY TRAFFIC CONTROL PLAN OVERVIEW

DRAWING NAME: 1023_TCP-OVERVIEW
 PROJECT NO. CRP 1023

C11
 Sheet 11 of 20

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

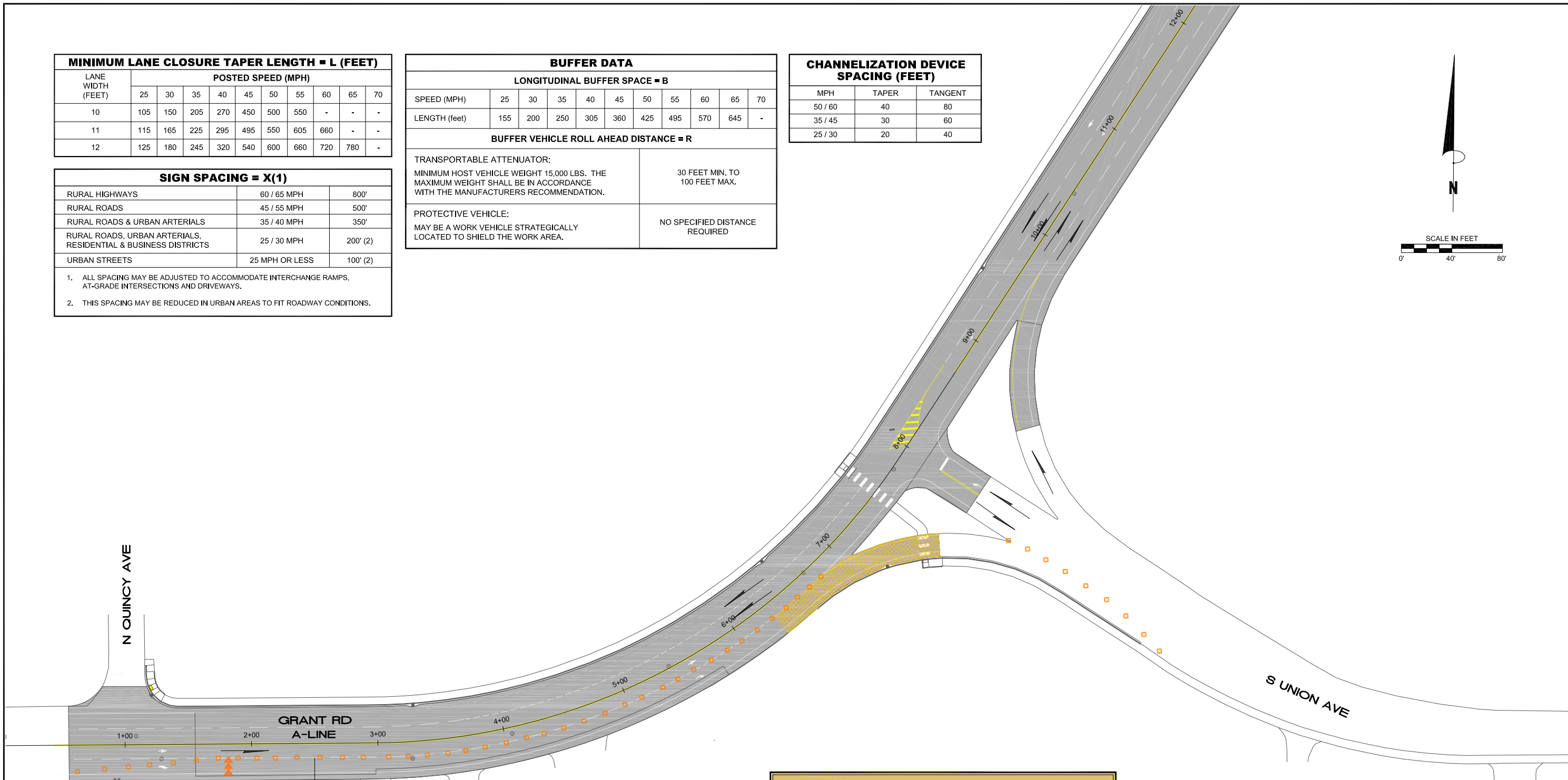
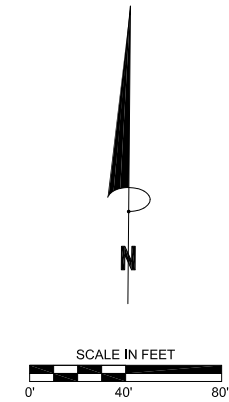
SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

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.

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	-

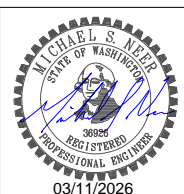
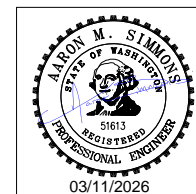
BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED

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



SEE LANE CLOSURE TAPER TABLE (THIS SHEET)

LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



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**TEMPORARY TRAFFIC CONTROL PLAN
 CHANNELIZATION SPACING
 GRANT RD / S UNION AVE EXIT LANE**

DRAWING NAME:
1023_TCP
 PROJECT NO.
CRP 1023

C12
 Sheet 12 of 20

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

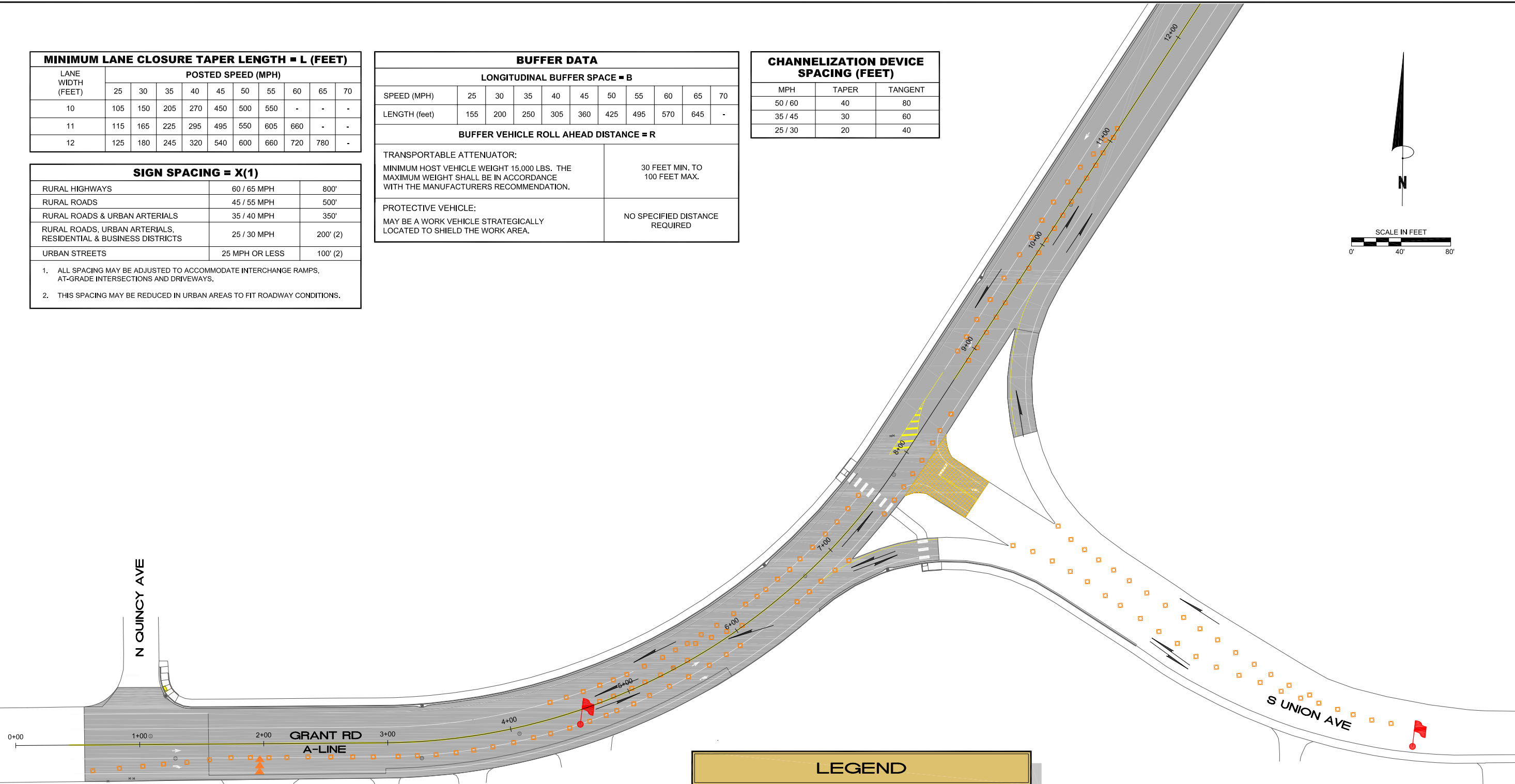
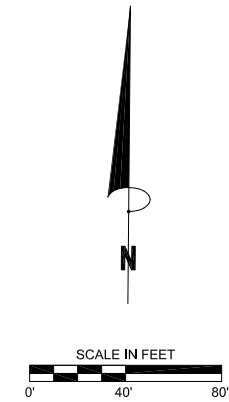
SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

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.

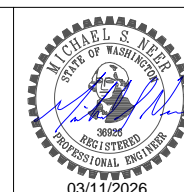
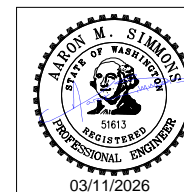
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	-

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED

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



LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

**Grant Rd Resurfacing -
 North Quincy Ave to
 Urban Industrial Way**



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**TEMPORARY TRAFFIC CONTROL PLAN
 CHANNELIZATION SPACING
 GRANT RD / S UNION MIDDLE INTX**

DRAWING NAME:
1023_TCP
 PROJECT NO.
CRP 1023

C13
 Sheet 13 of 20

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

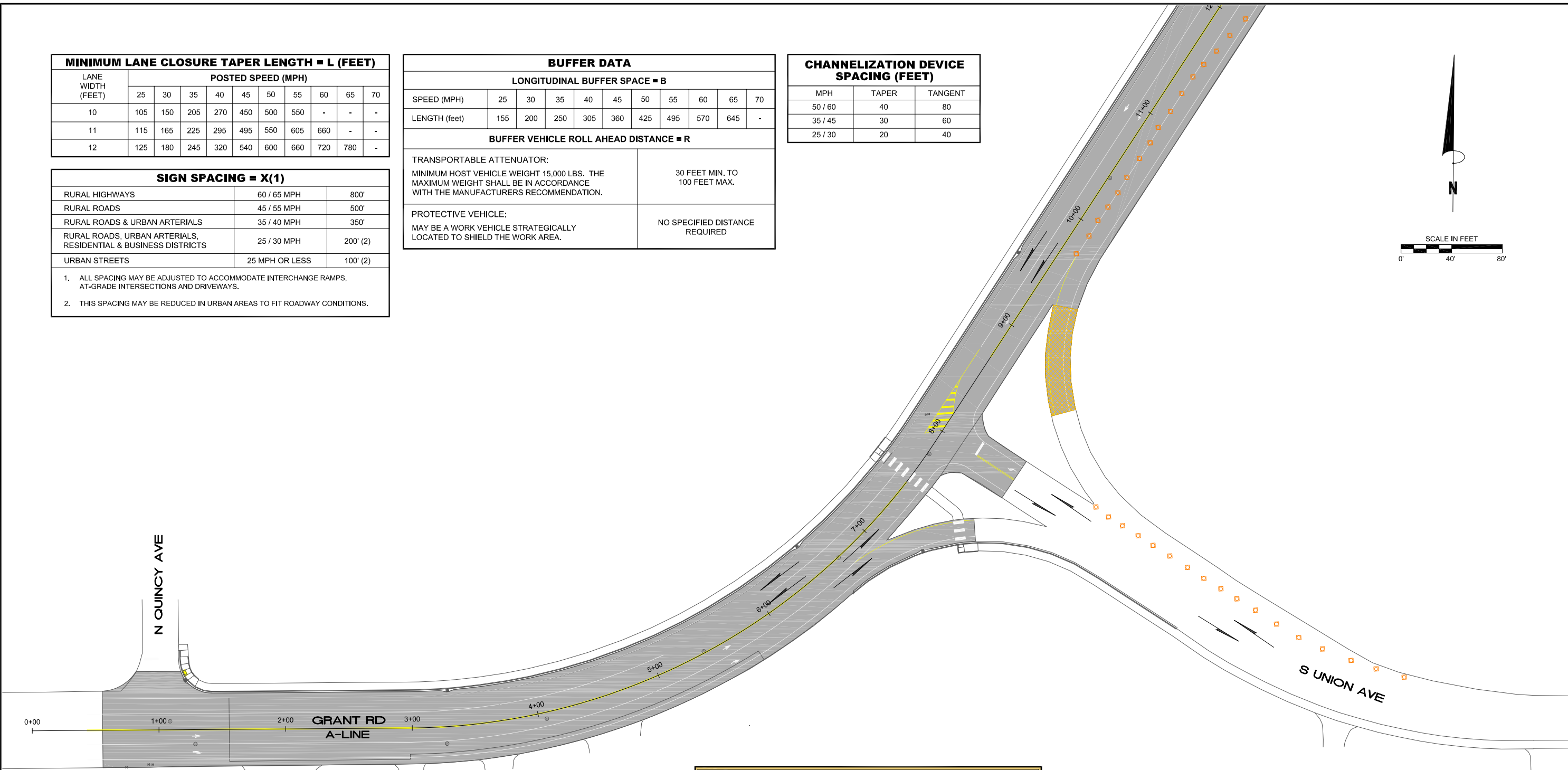
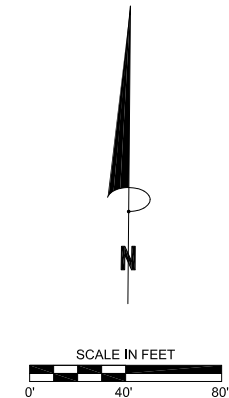
SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

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.

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	-

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED

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



LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION

03/11/2026

03/11/2026

NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

**Grant Rd Resurfacing -
North Quincy Ave to
Urban Industrial Way**

DOUGLAS

COUNTY

TRANSPORTATION & LAND SERVICES
140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

**TEMPORARY TRAFFIC CONTROL PLAN
CHANNELIZATION SPACING
GRANT RD / S UNION ENTRANCE LANE**

DRAWING NAME:
1023_TCP

PROJECT NO.
CRP 1023

C14

Sheet 14 of 20

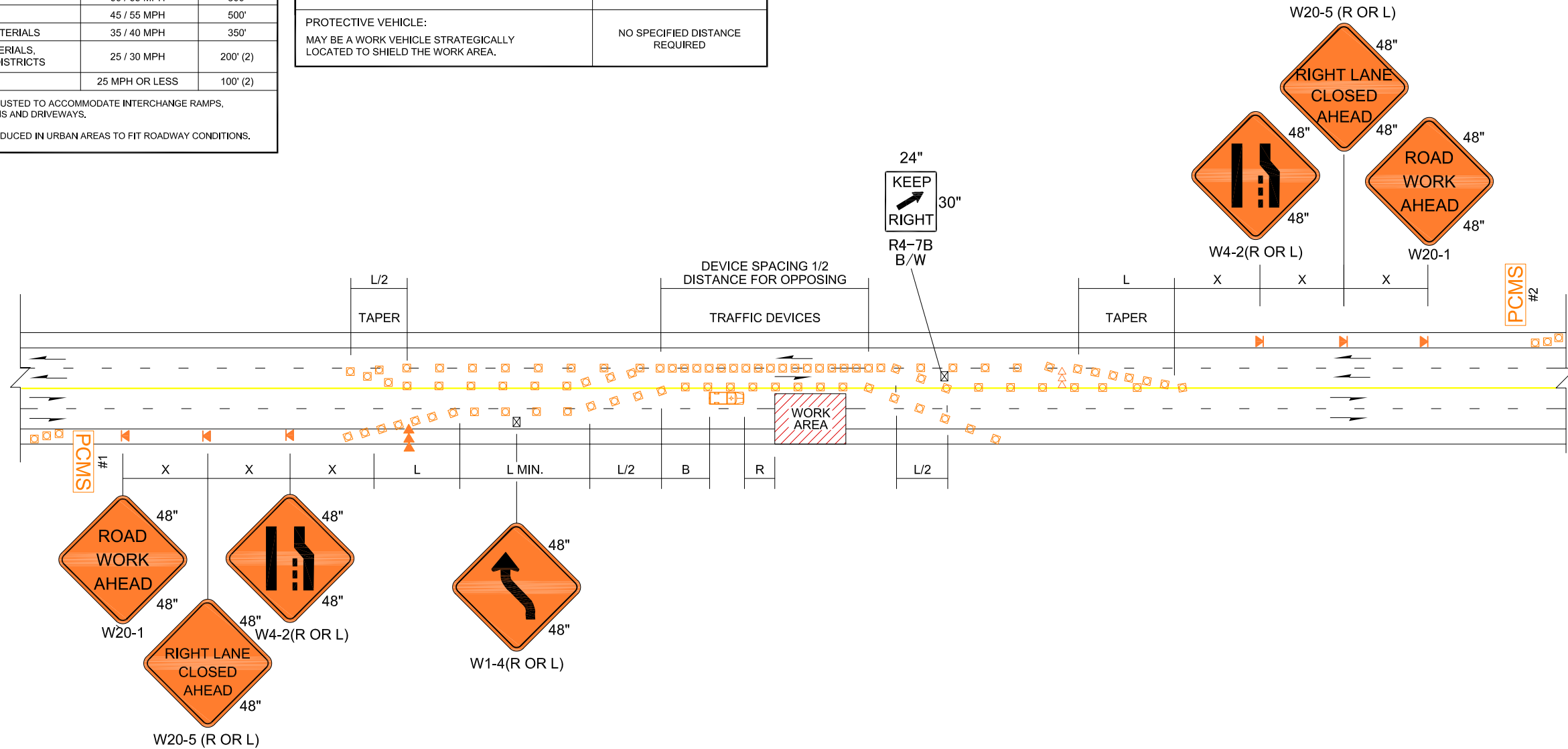
MINIMUM LANE CLOSURE TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSTED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

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	-	
BUFFER VEHICLE ROLL AHEAD DISTANCE = R											
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.						30 FEET MIN. TO 100 FEET MAX.					
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.						NO SPECIFIED DISTANCE REQUIRED					

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

SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, 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.



LEGEND	
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	TRAFFIC FLOW DIRECTION
	SEQUENTIAL ARROW SIGN
	PORTABLE CHANGEABLE MESSAGE SIGN
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
	PROTECTIVE VEHICLE

PCMS #1	
1	2
RIGHT LANE CLOSURE	XXX FEET AHEAD
2.0 SEC	2.0 SEC

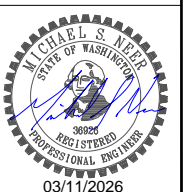
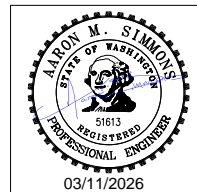
FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
RIGHT LANE CLOSED	KEEP LEFT
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

NOTES

- USE THE SAME SIGN, CHANNELIZING AND PCMS LAYOUT FOR EAST OR WEST BOUND DOUBLE LANE CLOSURE.
SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
DESIGNER: RBH
DRAWN BY: RBH

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



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140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

**TEMPORARY TRAFFIC CONTROL PLAN
DOUBLE LANE CLOSURE WITH SHIFT
4 LANE ROADWAY**

DRAWING NAME: 1023_TCP
PROJECT NO. CRP 1023

C15

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

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

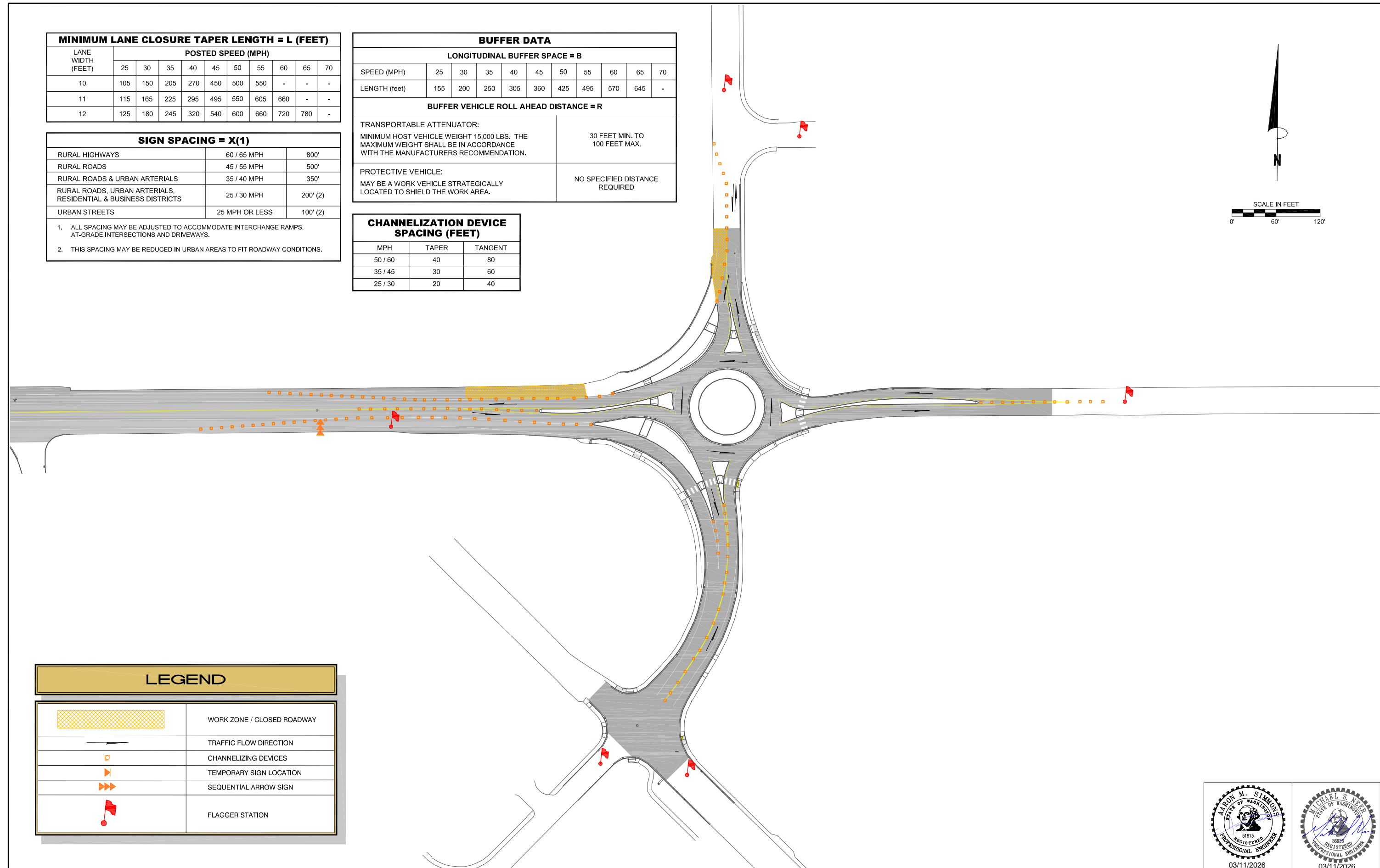
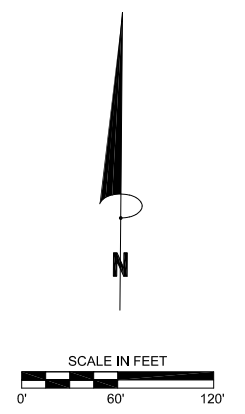
1. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
2. THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

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	-	

BUFFER VEHICLE ROLL AHEAD DISTANCE = R

TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED

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



LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION

03/11/2026

03/11/2026

NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

**Grant Rd Resurfacing -
North Quincy Ave to
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DOUGLAS

COUNTY

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**TEMPORARY TRAFFIC CONTROL PLAN
CHANNELIZATION SPACING
ROUNDBOUT NW QUAD SLIP LANE**

DRAWING NAME: 1023_TCP	C16
PROJECT NO. CRP 1023	
Sheet 16 of 20	

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

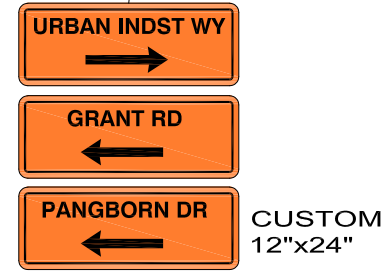
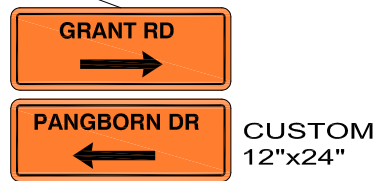
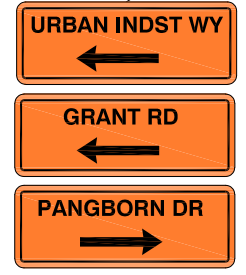
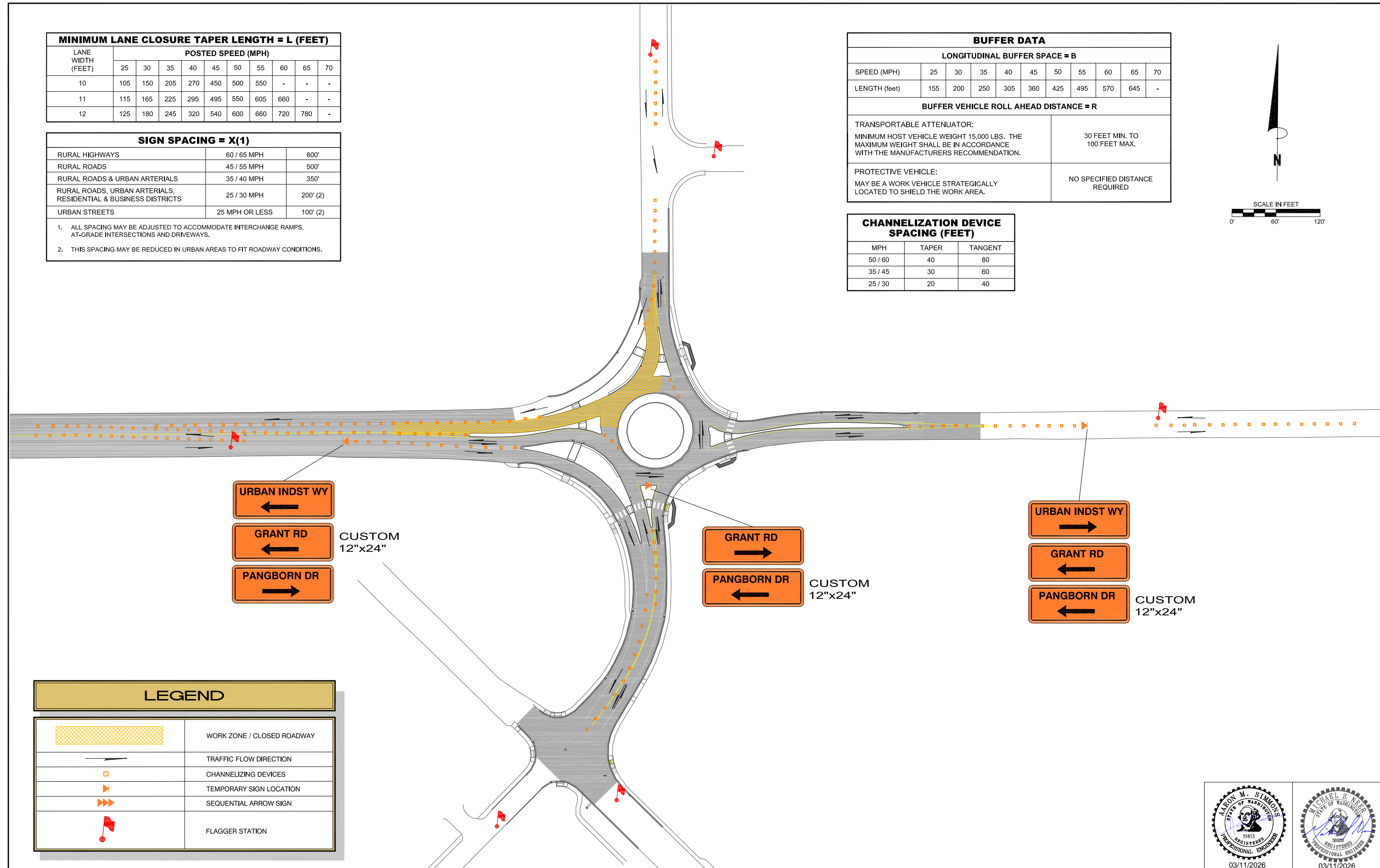
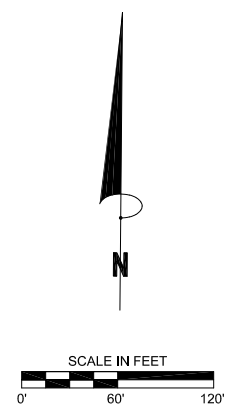
SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

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

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	-

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED

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



LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION

03/11/2026

03/11/2026

NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

**Grant Rd Resurfacing -
 North Quincy Ave to
 Urban Industrial Way**

DOUGLAS COUNTY
 TRANSPORTATION & LAND SERVICES
 140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

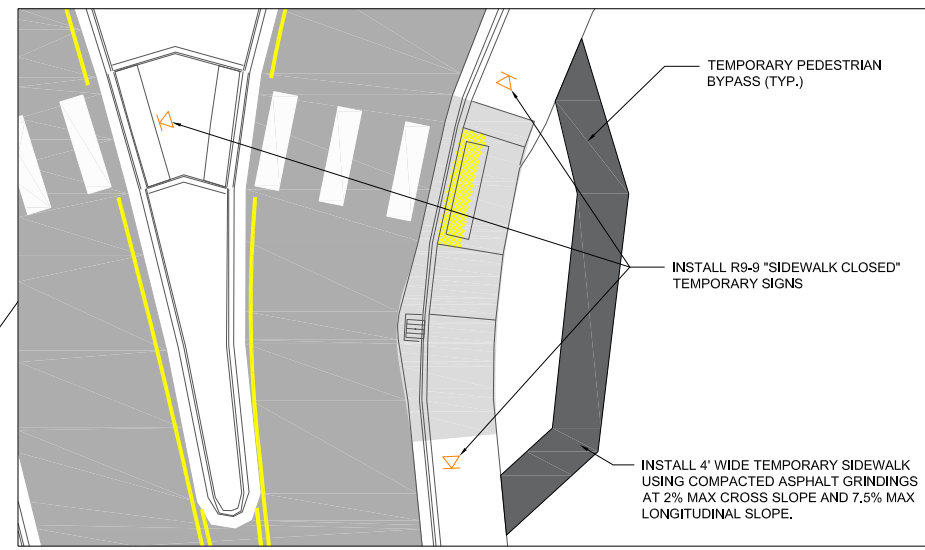
**TEMPORARY TRAFFIC CONTROL PLAN
 CHANNELIZATION SPACING
 ROUNDABOUT NW QUAD**

DRAWING NAME:
1023_TCP
 PROJECT NO.
CRP 1023
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MINIMUM LANE CLOSURE TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSTED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

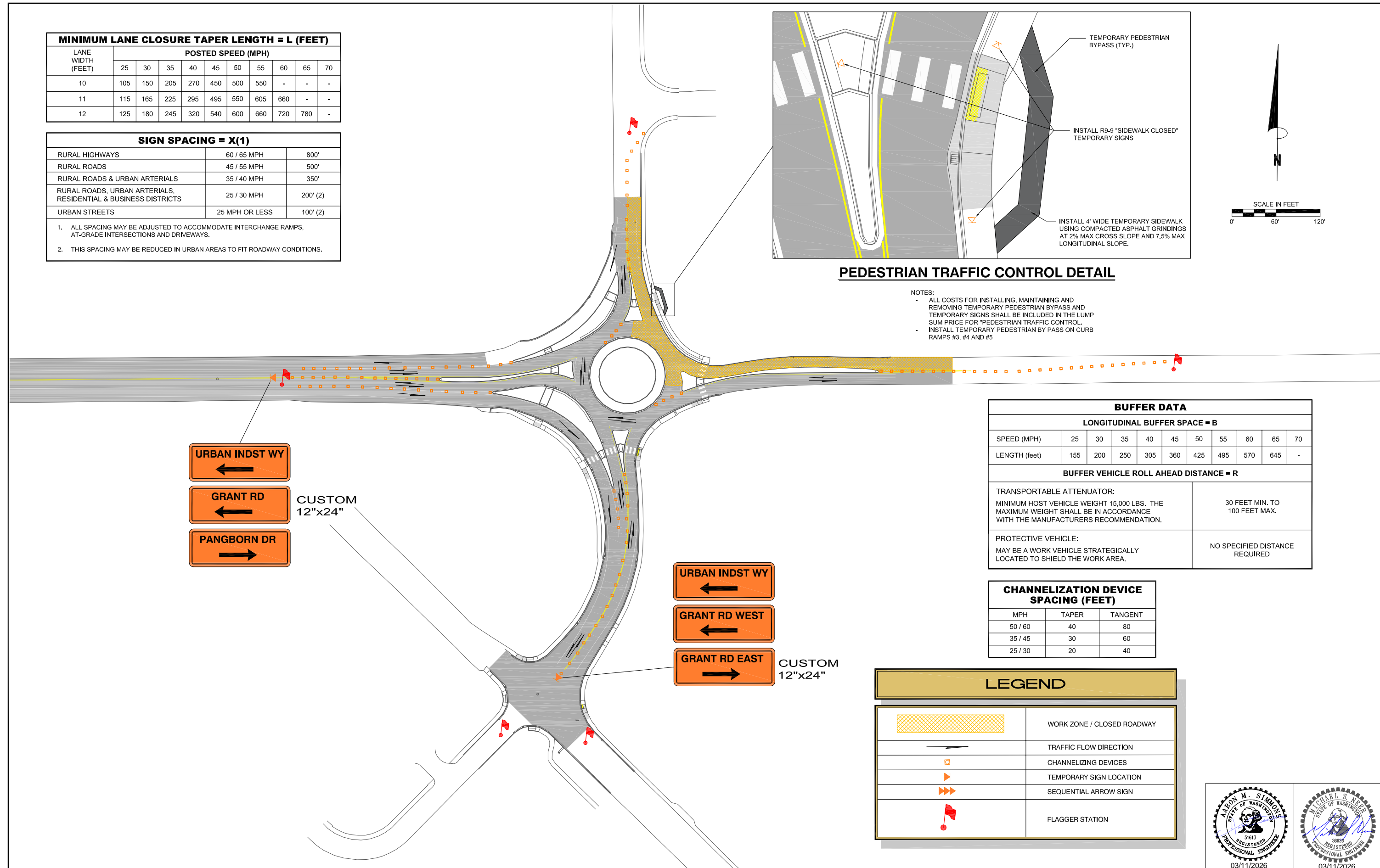
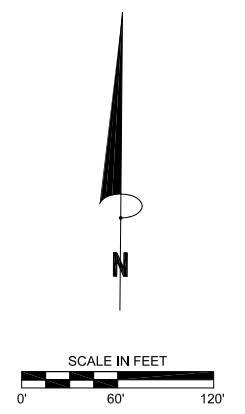
SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

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



PEDESTRIAN TRAFFIC CONTROL DETAIL

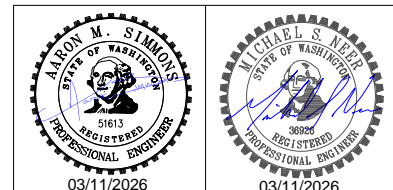
- NOTES:
- ALL COSTS FOR INSTALLING, MAINTAINING AND REMOVING TEMPORARY PEDESTRIAN BYPASS AND TEMPORARY SIGNS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR "PEDESTRIAN TRAFFIC CONTROL."
 - INSTALL TEMPORARY PEDESTRIAN BY PASS ON CURB RAMPS #3, #4 AND #5



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	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR: MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE: MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		

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

LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
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 DRAWN BY: DPN / GTP

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING ROUNDABOUT NE QUAD

DRAWING NAME: 1023_TCP
 PROJECT NO. CRP 1023
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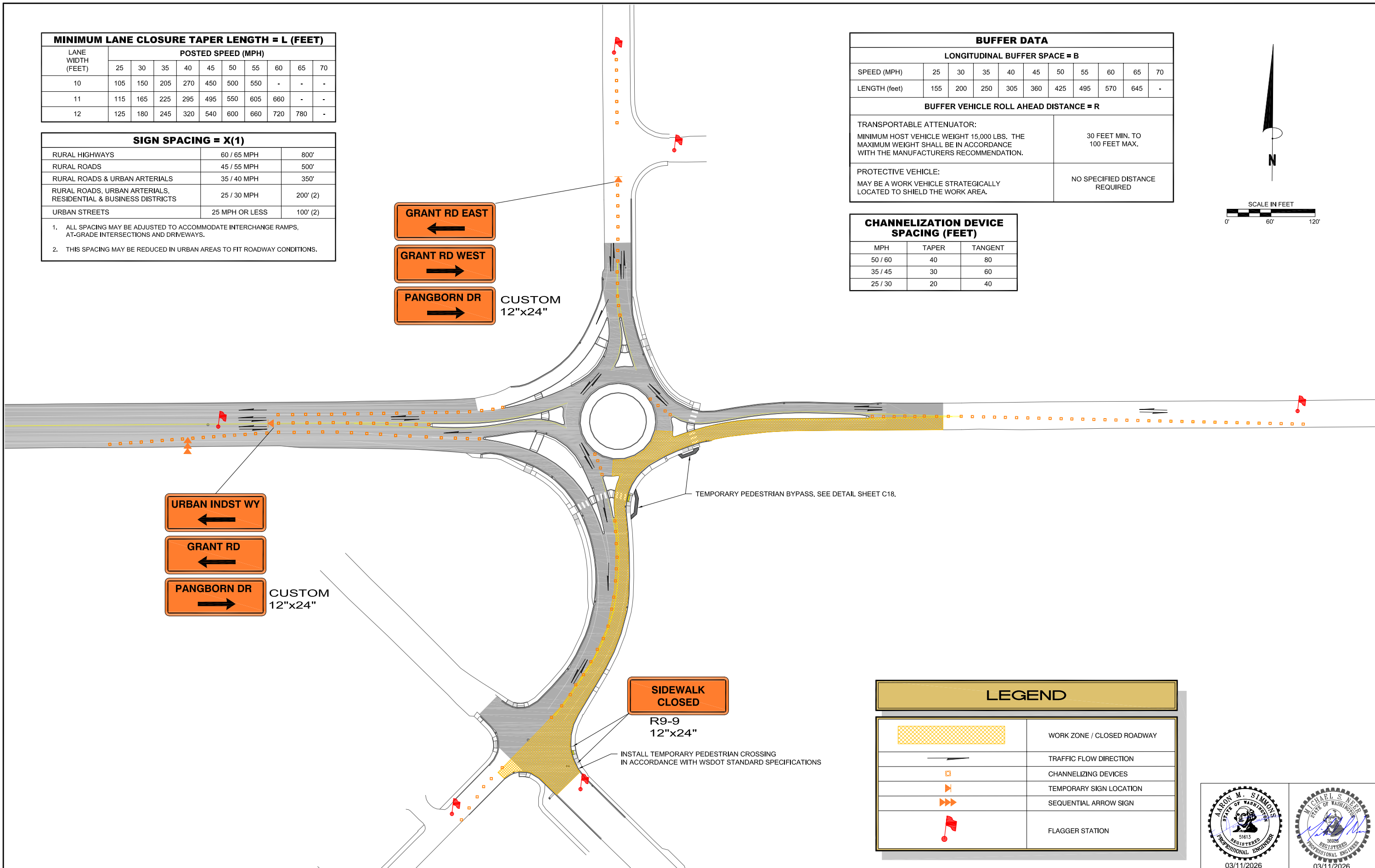
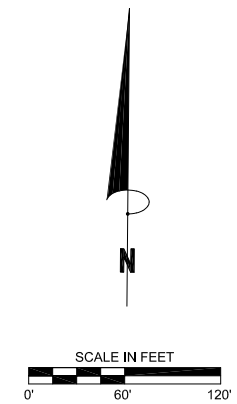
MINIMUM LANE CLOSURE TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSTED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

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

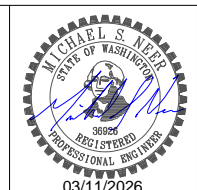
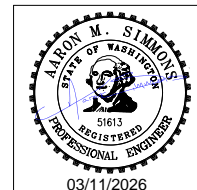
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2. THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA										
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LENGTH (feet)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
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CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50 / 60	40	80
35 / 45	30	60
25 / 30	20	40



LEGEND	
	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION



NO.	REVISION	BY	DATE

PLOT DATE: DECEMBER 30, 2025
 DESIGNER: DPN / GTP
 DRAWN BY: DPN / GTP

Grant Rd Resurfacing - North Quincy Ave to Urban Industrial Way



DOUGLAS COUNTY
 TRANSPORTATION & LAND SERVICES
 140 19th St. NW, E. Wenatchee, WA 98802 PH: (509) 884-7173

TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING ROUNDABOUT SE QUAD

DRAWING NAME: 1023_TCP
 PROJECT NO. CRP 1023

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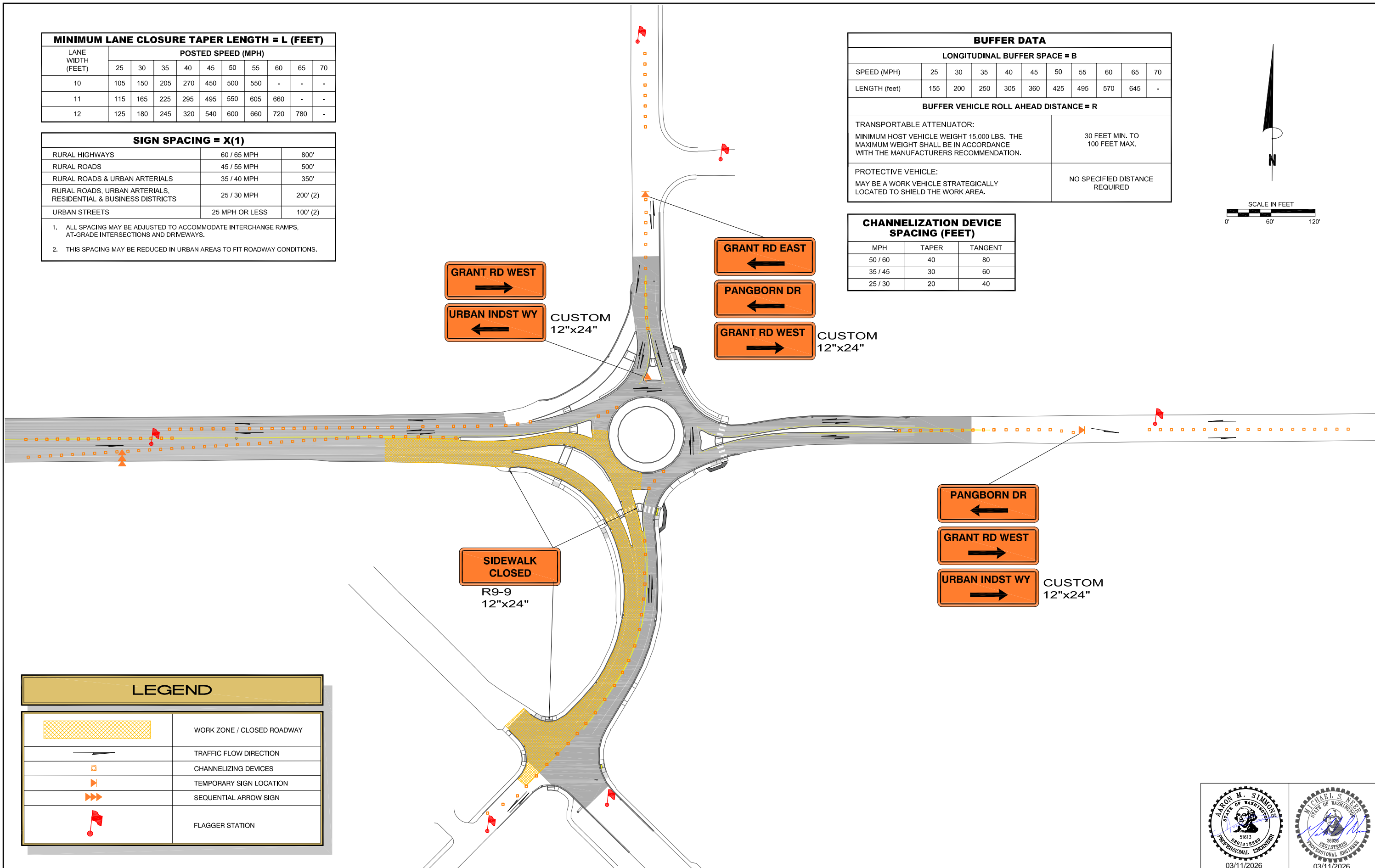
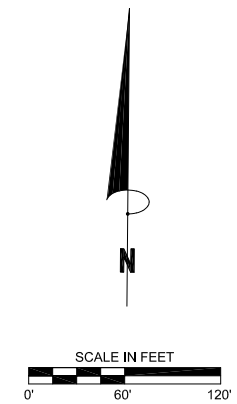
MINIMUM LANE CLOSURE TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSTED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

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



LEGEND

	WORK ZONE / CLOSED ROADWAY
	TRAFFIC FLOW DIRECTION
	CHANNELIZING DEVICES
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	FLAGGER STATION

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TEMPORARY TRAFFIC CONTROL PLAN CHANNELIZATION SPACING ROUNDABOUT SW QUAD

DRAWING NAME: 1023_TCP
PROJECT NO. CRP 1023

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