



CONTRACT PLANS

FOR THE CONSTRUCTION OF:

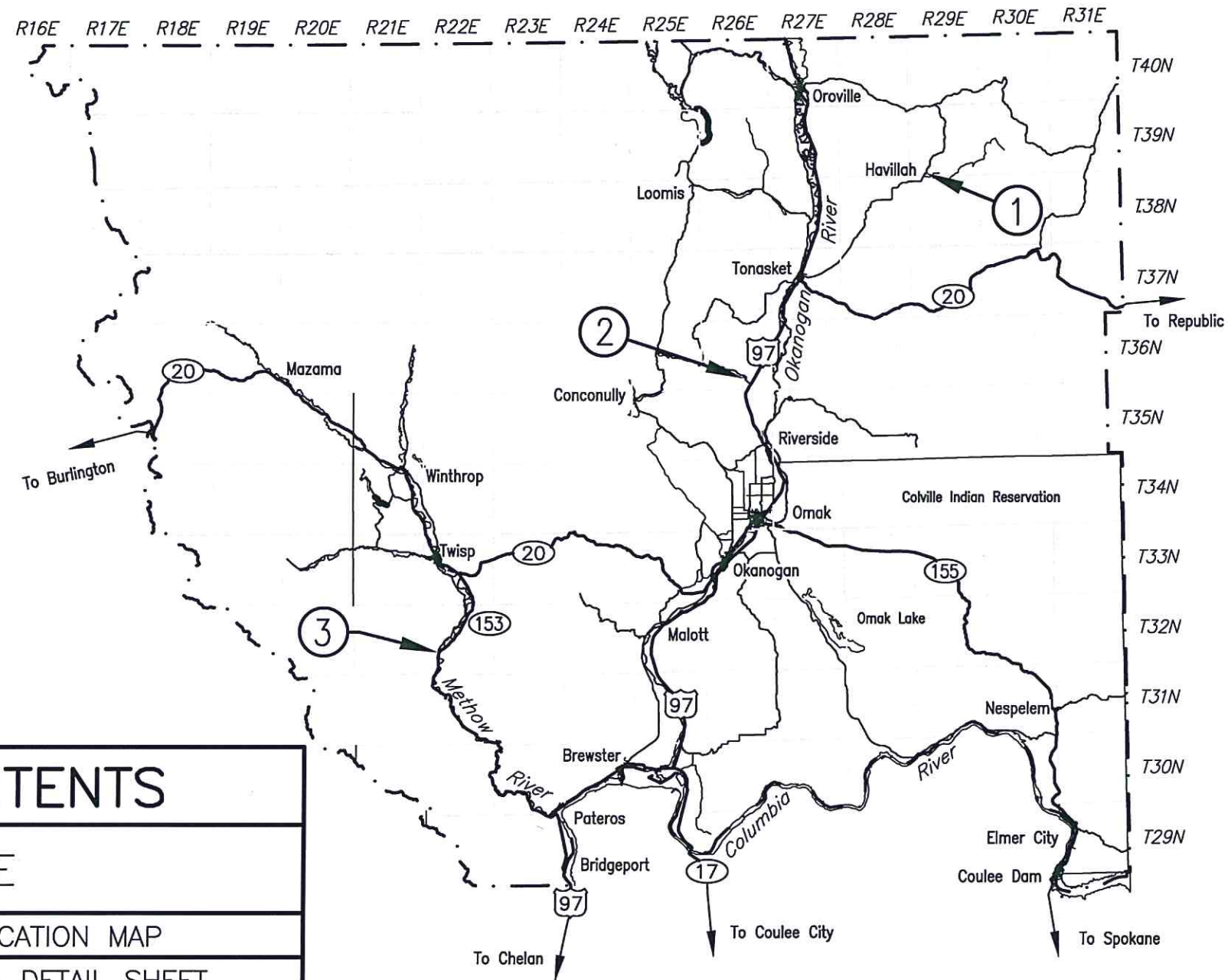
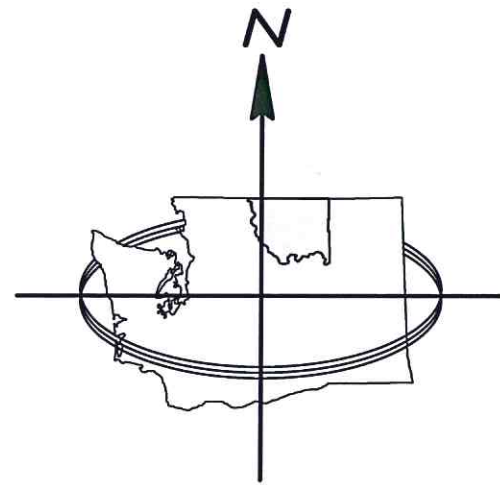
2019 County Wide Guardrail Safety Project

Federal Aid Project No. HSIP-000S(543)

Contract No. TA-6849

August 2020

OKANOGAN COUNTY
DEPARTMENT OF PUBLIC WORKS
1234-A Second Avenue South, Okanogan WA 98840



- ① O.C.R No. 9467
Havillah Rd.
M.P. 16.267 to M.P. 16.353 Rt.
- ② O.C.R No. 9410
Pine Cr. Rd.
M.P. 0.709 to M.P. 0.889 Rt.
- ③ O.C.R No. 9105
Twisp-Carlton Rd.
M.P. 0.070 to M.P. 0.780 Rt.

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OKANOGAN COUNTY

PROJECT LOCATION MAP

NOT TO SCALE

Designed by: _____ Date: _____
 Drawn by: _____ Date: _____
 Checked by: _____ Date: _____
 Fed. Funct. Class: _____
 Terrain Type: _____
 Design Year: _____
 Design Year ADT.: _____
 Design Speed: _____

Fed. Aid Proj. No. HSIP - 0005(543)
 Contract No. TA - 6849
 R.A.P. Project No. N/A



Okanogan County
 Department of Public Works
 1234-A 2nd Ave. S. 509-422-7300
 Okanogan, Washington 98840

2019 GUARDRAIL
 COUNTY WIDE GUARDRAIL SAFETY
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SUMMARY OF QUANTITIES

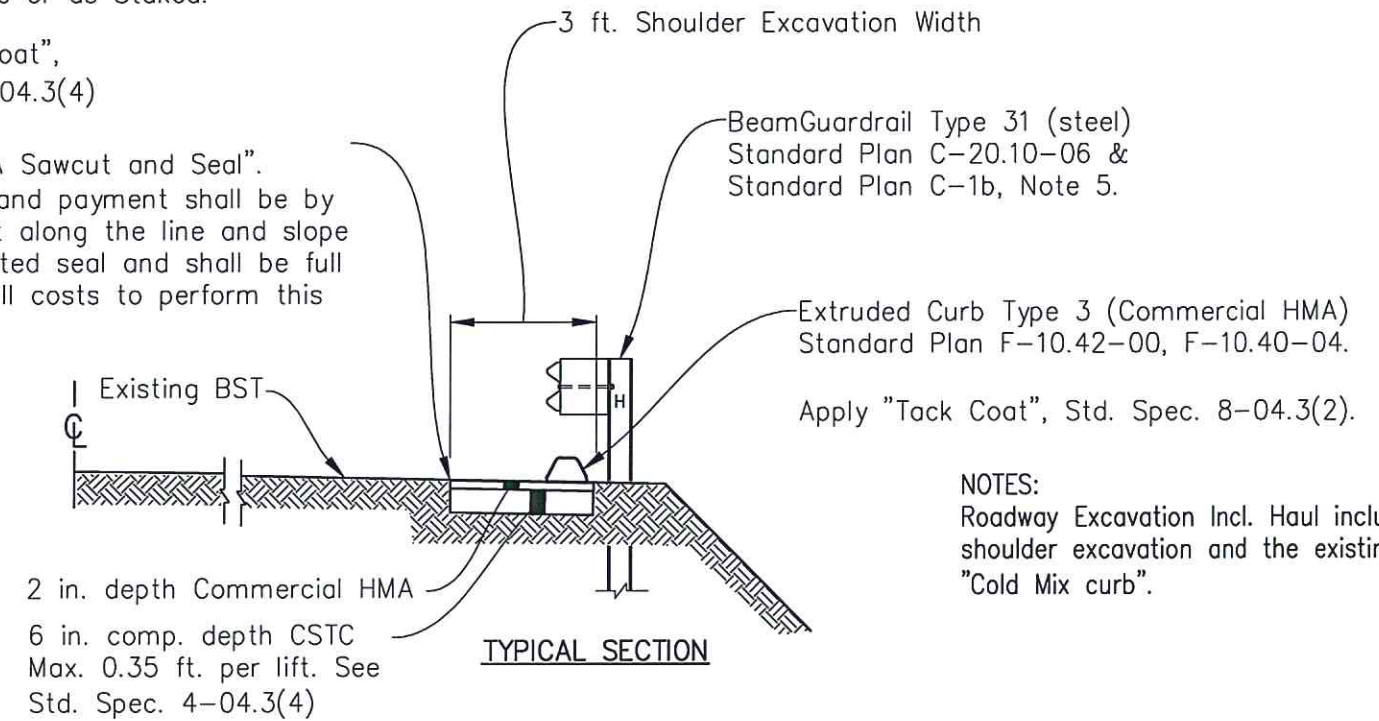
2019-20 GUARDRAIL

ITEM NO.	STANDARD ITEM NO.	TOTAL PLAN QUANTITY	UNIT	ITEM	FINAL QUANTITY (AS BUILT)
SECTION: 1 PREPARATION					
1	0001	Lump Sum	L.S.	Mobilization	
2	0170	1,975	L.F.	Removing Guardrail	
SECTION: 2 GRADING					
3	0310	60	C.Y.	Roadway Excavation Incl. Haul	
SECTION: 9 SURFACING					
4	5115	100	C.Y.	Crushed Surfacing Top Course	
SECTION: 14 HOT MIX ASPHALT					
5	5875	40	TON	Commercial HMA	
6	6511	925	L.F.	HMA Sawcut and Seal	
SECTION: 18 TRAFFIC					
7	6711	650	L.F.	Beam Guardrail Type 31 - 8 Ft. Long Post	
8	6713	1,800	L.F.	Beam Guardrail Type 31 - 11 Ft. Long Post	
9	6719	10	Each	Beam Guardrail Type 31 Non-Flared Terminal (TL3)	
10	6727	925	L.F.	Extruded Curb	
11	6757	550	L.F.	Beam Guardrail Type 31	
12	6971	Lump Sum	L.S.	Project Temporary Traffic Control	
SECTION: 19 OTHER ITEMS					
13	7728	1	Calc.	Minor Change	
14	7736	Lump Sum	L.S.	SPCC Plan	

Sawcut Existing BST 12 to 13 ft from centerline or as Staked.

Apply "Tack Coat",
Std. Spec. 5-04.3(4)

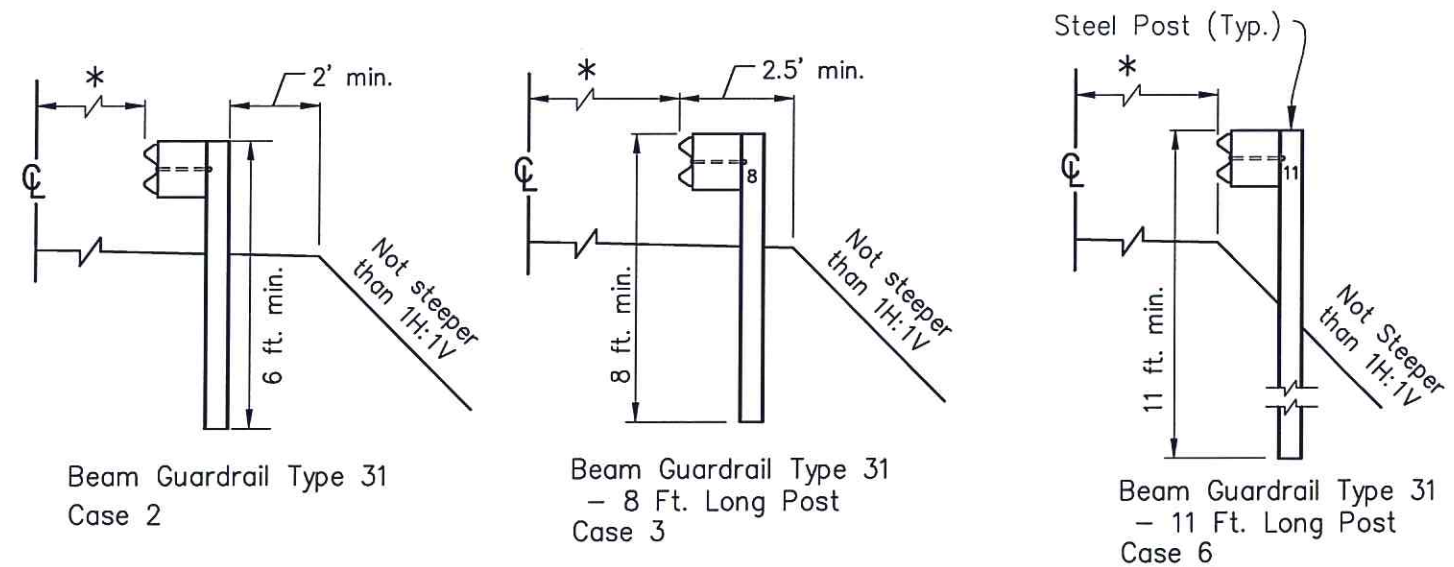
Bid Item "HMA Sawcut and Seal".
Measurement and payment shall be by the linear foot along the line and slope of the completed seal and shall be full payment for all costs to perform this work.



NOTES:
Roadway Excavation Incl. Haul includes shoulder excavation and the existing "Cold Mix curb".

SHOULDER EXCAVATION, CSTC, COMMERCIAL HMA AND CURB INSTALLATION

③ Twisp-Carlton Rd. Sta. 3-33+00 to 3-42+25 Rt.
(M.P. 0.567 to M.P. 0.747)



Beam Guardrail Type 31
Case 2

Beam Guardrail Type 31
- 8 Ft. Long Post
Case 3

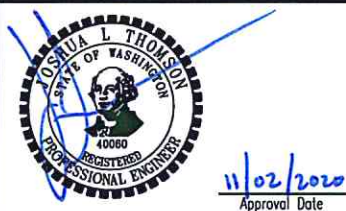
Beam Guardrail Type 31
- 11 Ft. Long Post
Case 6

BEAM GUARDRAIL POST INSTALLATION NOT TO SCALE * Width Varies, See Strip Map.

Based on Exhibit 1610-10, WSDOT Design Manual M 22-01.15 July 2018

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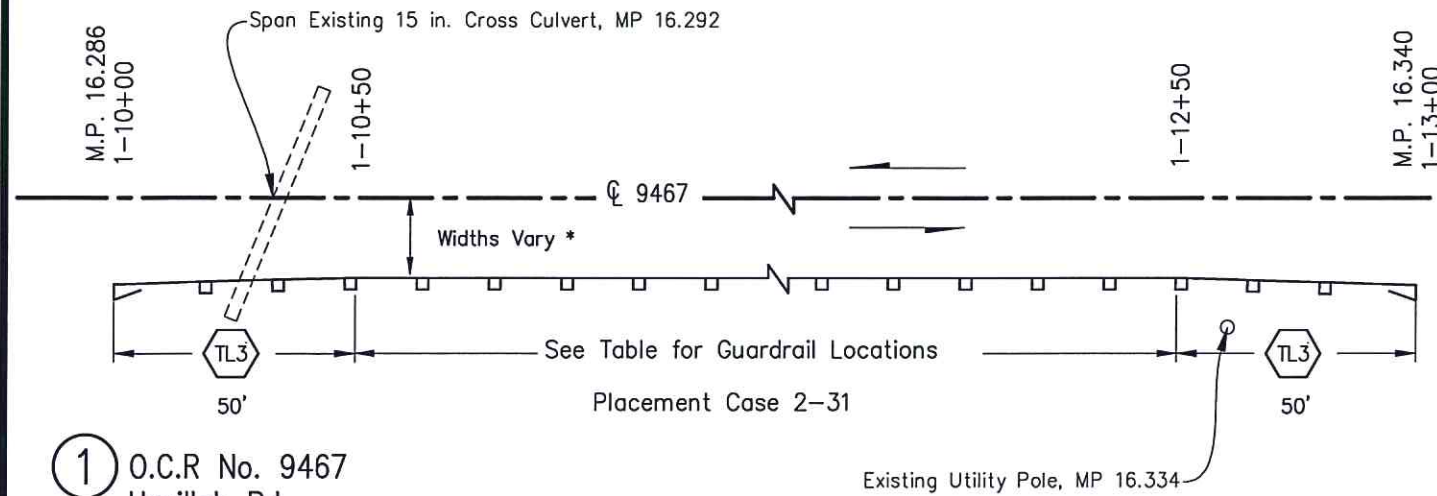
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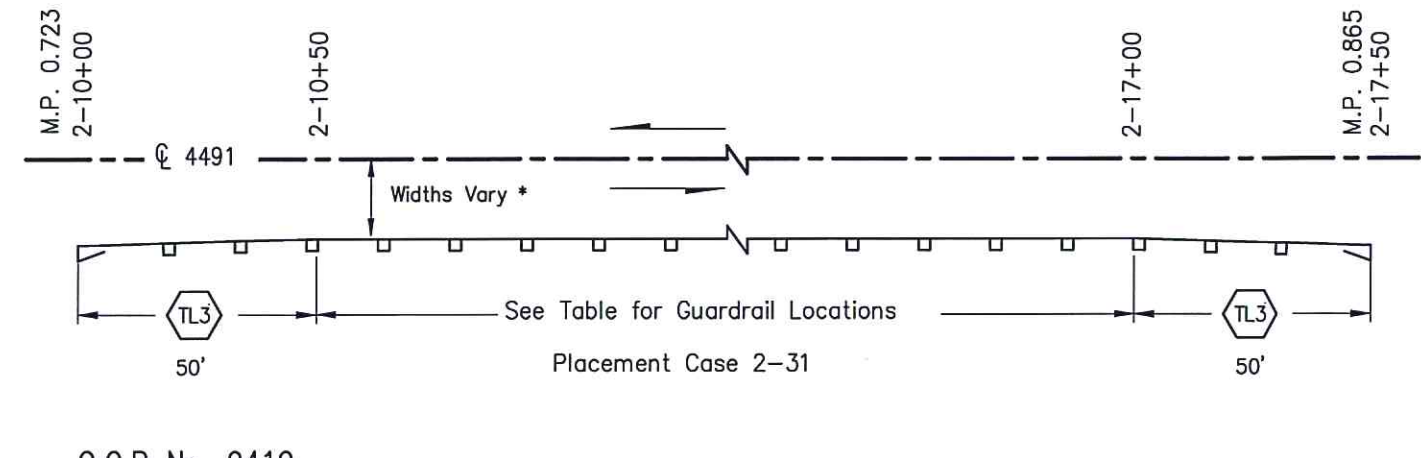
Okanogan County
Department of Public Works
 1234-A 2nd Ave. S. 509-422-7300
 Okanogan, Washington 98840

2019 GUARDRAIL
 COUNTY WIDE GUARDRAIL SAFETY
 SUMMARY OF QUANTITIES \ DETAIL SHEET

SHEET
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① O.C.R No. 9467
Havillah Rd.
M.P. 16.267 to M.P. 16.353 Rt.



② O.C.R No. 9410
Pine Cr. Rd.
M.P. 0.709 to M.P. 0.889 Rt.

STATION	L.F.	C.Y.	L.F.	L.F.	L.F.	EACH
1-10+00 Rt. to 1-10+50 Rt.						1
1-10+50 Rt. to 1-10+75 Rt.			25			
1-10+75 Rt. to 1-11+75 Rt.					100	
1-11+75 Rt. to 1-12+25 Rt.				50		
1-12+25 Rt. to 1-12+50 Rt.			25			
1-12+50 Rt. to 1-13+00 Rt.						1
SECTION TOTAL			50	50	100	2

STATION	L.F.	C.Y.	L.F.	L.F.	L.F.	EACH
2-10+00 Rt. to 2-10+50 Rt.						1
2-10+50 Rt. to 2-11+75 Rt.				125		
2-11+75 Rt. to 2-17+00 Rt.					525	
2-17+00 Rt. to 2-17+50 Rt.						1
SECTION TOTAL				125	525	2

LEGEND (Standard Item Number) [Standard Plan Number] * Centerline Offset to Face of Rail or as staked.

- ① (0170) Removing Guardrail - L.F.
- ② (0310) Roadway Excavation Incl. Haul - C.Y.
- ⑥ (6757) Beam Guardrail Type 31 [C-20.10-06]
- ⑧ (6711) Beam Guardrail Type 31 - 8 Ft. Long Post [C-20.10-06]
- ⑪ (6713) Beam Guardrail Type 31 - 11 Ft. Long Post [C-20.10-06]
- TL3 (6719) Beam Guardrail Type 31 Non-Flared Terminal [C-22.40-08]
- Guardrail Installation
- Project Location Map \ Strip Map

Designed by: _____ Date: _____
 Drawn by: _____ Date: _____
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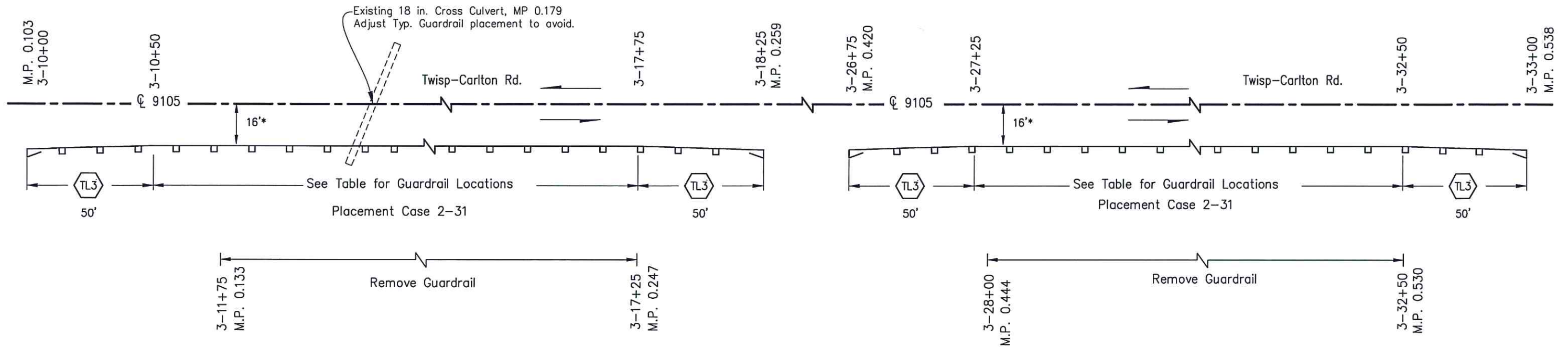
11/02/2020
Approval Date



Okanogan County
Department of Public Works
1234-A 2nd Ave. S. 509-422-7300
Okanogan, Washington 98840

2019 GUARDRAIL
COUNTY WIDE GUARDRAIL SAFETY
STRIP MAP - 1,2

SHEET
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of
6



3 O.C.R No. 9105
Twisp - Carlton Rd.
M.P. 0.070 to M.P. 0.780 Rt.

STATION	L.F.	C.Y.	L.F.	L.F.	L.F.	EACH
3-11+75 to 3-17+75 Rt.	600					
3-10+00 to 3-10+50 Rt.						1
3-10+50 to 3-14+75 Rt.			425			
3-14+75 to 3-17+75 Rt.				300		
3-17+75 to 3-18+25 Rt.						1
SECTION TOTAL	600		425	300		2

STATION	L.F.	C.Y.	L.F.	L.F.	L.F.	EACH
3-28+00 to 32+50 Rt.	450					
3-26+75 Rt. to 3-27+25 Rt.						1
3-27+25 Rt. to 3-28+00 Rt.				75		
3-28+00 Rt. to 3-31+50 Rt.					350	
3-31+50 Rt. to 3-32+50 Rt.				100		
3-32+50 to 33+00 Rt.						1
SECTION TOTAL	450			175	350	2

LEGEND (Standard Item Number) [Standard Plan Number] * Centerline Offset to Face of Rail or as staked.

- 1 (0170) Removing Guardrail - L.F.
- 2 (0310) Roadway Excavation Incl. Haul - C.Y.
- 6 (6757) Beam Guardrail Type 31 [C-20.10-06]
- 8 (6711) Beam Guardrail Type 31 - 8 Ft. Long Post [C-20.10-06]
- 11 (6713) Beam Guardrail Type 31 - 11 Ft. Long Post [C-20.10-06]
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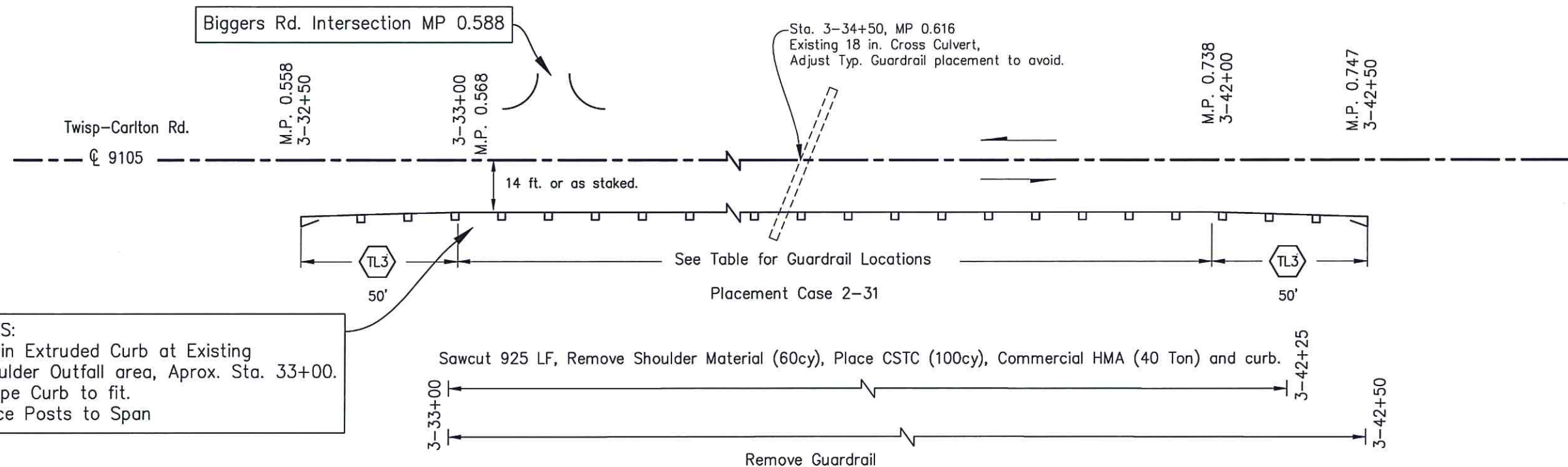
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2019 GUARDRAIL
 COUNTY WIDE GUARDRAIL SAFETY
 STRIP MAP - 3

SHEET
 4
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 6



NOTES:

- Begin Extruded Curb at Existing Shoulder Outfall area, Aprox. Sta. 33+00.
- Shape Curb to fit.
- Place Posts to Span

③ O.C.R No. 9105
Twisp - Carlton Rd.
M.P. 0.070 to M.P. 0.780 Rt.

STATION	L.F.	C.Y.	L.F.	L.F.	L.F.	EACH
3-33+00 to 42+50 Rt.	925					
3-33+00 to 42+25 Rt.		60				
3-32+50 to 33+00 Rt.						1
3-33+00 to 3-41+25 Rt.					825	
3-41+25 to 3-42+00 Rt.			75			
3-42+00 to 42+50 Rt.						1
SECTION TOTAL	925	60	75		825	2

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Okanogon County
Department of Public Works

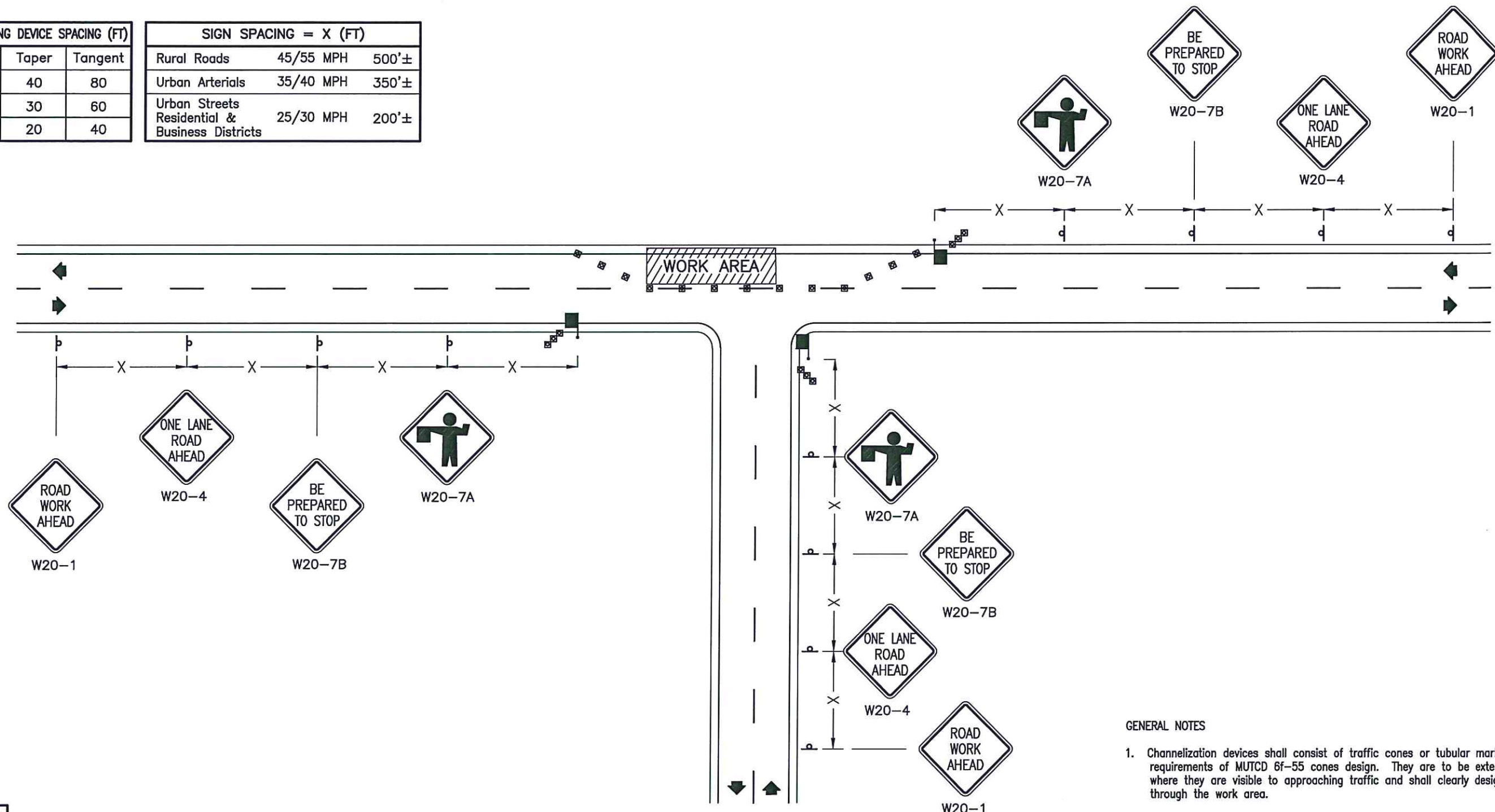
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 COUNTY WIDE GUARDRAIL SAFETY
 STRIP MAP - 3

SHEET
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CHANNELIZING DEVICE SPACING (FT)		
MPH	Taper	Tangent
50/55	40	80
35/45	30	60
25/30	20	40

SIGN SPACING = X (FT)		
Rural Roads	45/55 MPH	500'±
Urban Arterials	35/40 MPH	350'±
Urban Streets Residential & Business Districts	25/30 MPH	200'±



ONE-LANE, TWO-WAY TRAFFIC CONTROL
WITH FLAGGERS

NOT TO SCALE

GENERAL NOTES

1. Channelization devices shall consist of traffic cones or tubular markers meeting the requirements of MUTCD 6f-55 cones design. They are to be extended to a point where they are visible to approaching traffic and shall clearly designate the route through the work area.
2. All signs shall have orange background with black legend unless otherwise noted.
3. All diamond shaped signs shall be 48" x 48".
4. This plan is for daylight use only.

LEGEND

- ■ ■ Temporary Traffic Control Devices
- d Sign
- Flagger Station

Designed by:	Date:
Drawn by:	Date:
Checked by:	Date:
Fed. Funct. Class:	
Terrain Type:	
Design Year:	
Design Year ADT.:	
Design Speed:	

Fed. Aid Proj. No.	HSIP - 0005(543)
Contract No.	TA - 6849
R.A.P. Project No.	N/A

2019 GUARDRAIL COUNTY WIDE GUARDRAIL SAFETY TRAFFIC CONTROL PLAN
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