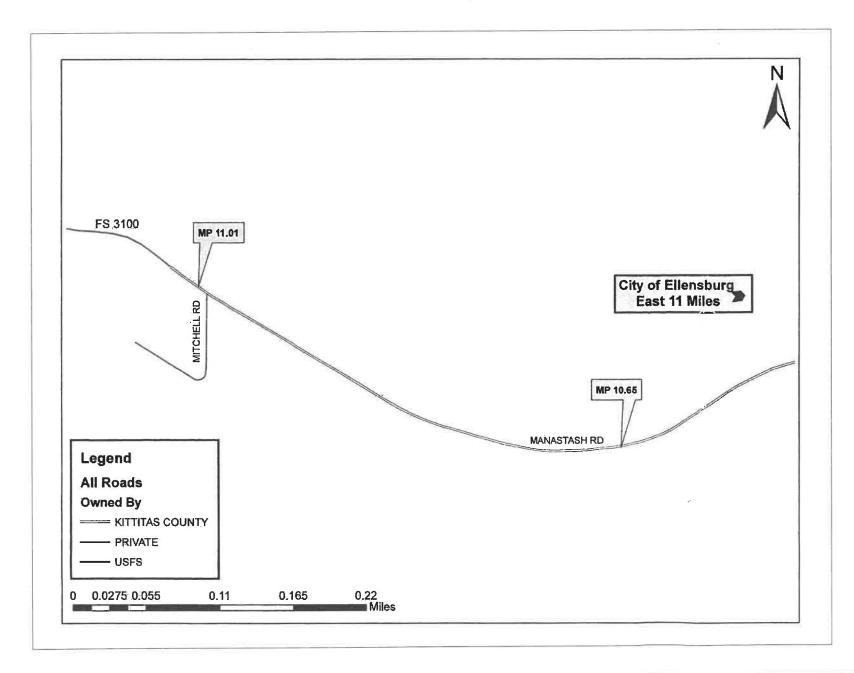
Kittitas County

Washington

Manastash Road Creek Bank Stabilization and Snow Park Improvement

PT SE 1/4 SEC 14. & SW 1/4 SEC 15 T17N R16E, W.M.



County Officials
Brett Wachsmith
Laura Osiadacz
Cory Wright
County Commissioners

Mark Cook, P.E.
Public Works Director

Josh Fredrickson, P.E.
County Engineer

Sheet Index

Page Number	Description	Sheet
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13	Details	DT-01
14	Details	DT-02
15	Details	DT-03

Manasta	sh Rd	
Manastash Bank Stabil		
1/26/20	023	
Designed By:	C. Curt	is
Entered By:	C. Curt	is
County Engineer:	J. Fredr	ickson
P.W. Director:	M. Coo	k
Revision	Date	Ву







Federal Aid No. FLAP-19DE(001) C.R.P. No. 273-16

General Notes

The basis for control of work shall be as follows:

- A. It is the responsibility of the contractor to have an approved set of plans and any necessary permits on the job site wherever work is being accomplished.
- B. The county shall have the authority to enforce these plans and specifications, as well as all other referenced or pertinent specifications. The County Engineer will appoint designees, project engineers, assistants, and inspectors as necessary to inspect the work, and they will exercise such authority as the County Engineer may delegate.
- C. It is the responsibility of the contractor to notify the county in advance of beginning work on any project. A pre-construction meeting and/or field review shall be required before the commencement of work.
- D. Failure to comply with the provisions of these plans and specifications may result in stop work orders, removal of work accomplished, or other penalties as established by law.
- E. Provisions of Section 1-05 (Control of Work) of the WSDOT Standard Specifications, current edition, shall apply, with the term "Engineer" therein construed to be the County Engineer.
- F. Unless otherwise approved or directed, all construction work shall be done in accordance with the most current edition of WSDOT Standard Specifications.

Construction Notes

Construction sites shall be maintained for access, accessibility, and safety at all times. Site maintenance activities shall include, but are not limited to the following:

- A. On existing roads, two-way traffic and all existing lanes of traffic shall be maintained at all times unless detour and/or traffic control plans have been approved in advance by the County Engineer. See KCC 12.09.05 for construction traffic control requirements.
- B. Roads shall be kept free of dirt and debris.
- C. Pedestrian and bicycle facilities shall be kept free of obstructions, and in compliance with ADA guidelines.
- D. Drainage facilities shall be maintained to ensure proper function, and stormwater, erosion, and sedimentation control devices shall be maintained and fully functional at all times. See KCC 12.06.040 for stormwater requirements.

Abbreviations

WSDOT	=	Washington State Department of Transportation
KCC	=	Kittitas County Code
НМА	=	Hot Mix Asphalt

ADA = Americans with Disabilities Act

= Foot/Feet

" = Inch/Inches

Summary of Quantities

Bid Item Number	Quantity	Unit	Description	Reference
			PREPARATION	
1	1	LS	MOBILIZATION	Std. 1-09.7
2	0.55	ACRE	CLEARING AND GRUBBNG	Std. 2-01.1; Special 2-01.1
3	1	LS	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	Std. 2-02; Special 2-02.3
			GRADING	
4	200	C.Y.	COMMON BORROW INCL. HAUL	Std. 2-03.5
5	1225	C.Y.	ROADWAY EXCAVATION INCL. HAUL	Std. 2-03.5; Special 8-19
			DRAINAGE	
6	140	TON	QUARRY ROCK	Std. 8-15.5
7	1	L.S.	TEMPORARY STREAM DIVERSON	Std. 8-31.5
8	1675	C.Y.	ROCK FOR EROSION AND SCOUR PROTECTION CLASS B	Special 8-19
9	250	C.Y.	ROCK FOR EROSION AND SCOUR PROTECTION CLASS C	Special 8-19
10	7	EACH	LARGE WOODY STRUCTURE A	Special 8-26
11	6	EACH	LARGE WOODY STRUCTURE B	Special 8-26
			SURFACING	
12	475	TON	CRUSHED SURFACING BASE COURSE	Std. 4-04.5
13	70	TON	PERMEABLE BALAST	Std. 8-15.5
			HOT MIX ASPHALT	
14	260	TON	HMA CL. 1/2 IN. PG 64-28	Special 5-04.5
			EROSION CONTROL	
15	1	DAY	ESC LEAD	Std. 8-01.5(2)
16	1	EST	EROSION AND WATER POLLUTION PREVENTION	Std. 8-01.5(1)
17	0.55	ACRE	SEEDING AND MULCHING	Std. 8-02.5
18	1400	L.F.	HIGH VISIBILITY SILT FENCE	Std. 8-01.5(2)
			TRAFFIC	
19	425	L.F.	PAINT LINE	Std. 8-22.5
20	1	L.S.	TRAFFIC CONTROL	Std. 1-10.5(1)
21	175	L.F.	BEAM GUARDRAIL TYPE 31 - XX FT LONG POST	Std. 8-11.5
22	1	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	Std. 8-11.5
23	1	EACH	BEAM GUARDRAIL ANCHOR TYPE 10	Std. 8-11.5
			OTHER ITEMS	
24	1	L.S.	ROADWAY SURVEYING	Special 1-05.4
25	1	EST.	ROADSIDE CLEANUP	Std. 2-01.5
26	1	L.S.	TRIMMING AND CLEANUP	Std. 2-11.5
27	1	EST.	MINOR CHANGE	Special 1-04.4(1)
28	1	L.S.	SPCC PLAN	Std. 1-07.15(1)

Manasta	sh Rd	
Manastash	Creek	
Bank Stabi	lization	
1/26/2	023	
Designed By:	C. Curt	is
Entered By:	C. Curt	is
County Engineer:	J. Fredr	ickson
P.W. Director:	M. Cool	<
Revision	Date	Ву







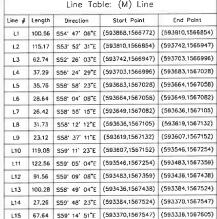
Federal Aid No. FLAP-19DE(001)

C.R.P. No. 273-16

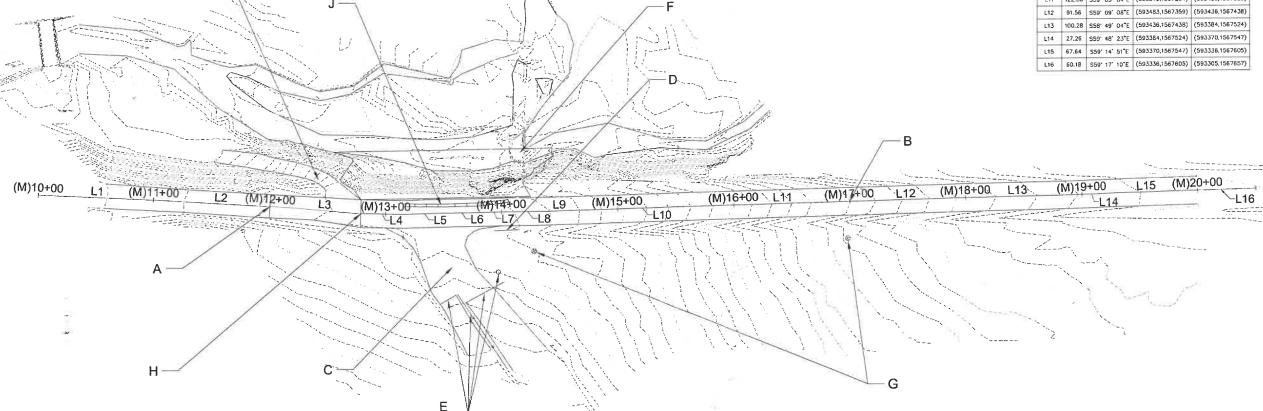
General Notes

GE-01

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



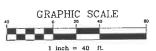
		Line Tab	ole: (M) Line	
Line #	Length	Direction	Stort Point	End Paint
L1	100.56	S54' 47' 06"E	(593868,1566772)	(593810,1566854)
L2	115.17	S53" 52" 31"E	(593810,1566854)	(593742,1566947)
L3	62.74	S52' 26' 03"E	(593742,1566947)	(593703,1566996)
L4	37.29	S56" 24" 29"E	(593703,1566996)	(593683,1567028)
L,5	35.76	S58' 58' 23"E	(593683,1567028)	(593664,1567058)
L6	28.64	S58° 04' 08"E	(593664,1567058)	(593649,1567082)
L7	26.42	S58' 55' 15"E	(593649,1567082)	(593636,1567105)
LB	31.73	S58' 12' 12"E	(593636,1567105)	(593619,1567132)
L9	23.12	S58' 37' 11"E	(593619,1567132)	(593607,1567152)
L10	119,08	S59" 11' 23"E	(593607,1567152)	(593546,1567254)
1.11	122.56	S59' 05' 04"E	(593546,1567254)	(593483,1567359)
L12	91.56	S59' 09' 08"E	(593483,1567359)	(593436,1567438)
L13	100.28	S58' 49' 04"E	(593436,1567438)	(593384,1567524)
114	27.26	S59' 48' 23"E	(593384,1567524)	(593370,1567547)
L15	67.64	S59" 14" 51"E	(593370,1567547)	(593336,1567605)
L16	60.18	S59" 17" 10"E	(593336,1567605)	(593305,1567657)



General Notes

- 1. All stationing is based on centerline of roadways unless otherwise
- 2. Unless otherwise provided for in these plans and specifications, all materials and workmanship shall be in accordance with the requirements of the current edition of the State of Washington, Department of Transportation Standard Specifications for Road and Bridge Construction and Title 12 of the Kittitas County Code.
- 3. Approved construction plans shall be on the job site at all times when project is under construction.
- 4. It will be the contractor's responsibility to contact all utility companies in order to assure that all lines, conduits, poles, vaults, and other appurtenances are properly located.

- A. Start of Project: Sta. (M)12+00 = N593751.03 E1566934.00 (See PP-01 for profile details)
- B. End of Project: Sta. (M)17+00 = N593484.52 E1567356.58 (See PP-01 for profile details)
- C. Existing Driveway: Access to driveways shall be maintained throughout the project.
- D. Existing mailbox to be moved temporarily moved during project.
- E. Existing infrastructure to be preserved and protected throughout project.
- Existing Log Jam in creek.
- G. Existing Over Head Utility Poles to be protected and preserved throughout project.
- H. End of County Road (end of pavement).
- I. Existing Signs to be protected and preserved throughout project
- J. Existing Jersey Barrier to be removed.



Manastash Rd Manastash Creek **Bank Stabilization** 1/26/2023 Designed By: C. Curtis C. Curtis Entered By: County Engineer: J. Fredrickson P.W. Director: M. Cook Revision Date



Know what's below. Call before you dig.





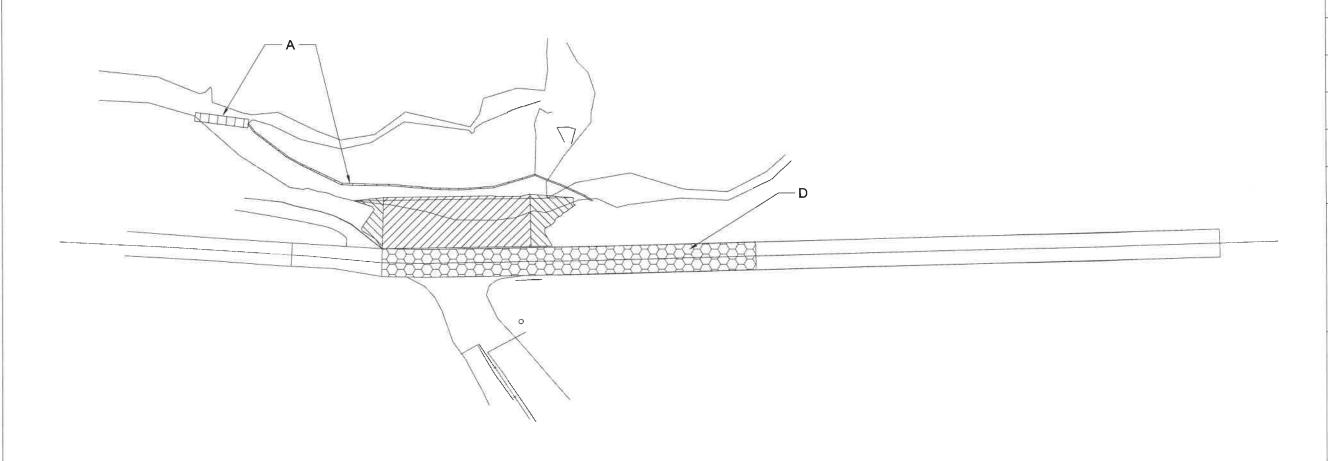
Federal Aid No. FLAP-19DE(001)

> C.R.P. No. 273-16

Existing Conditions

EX-01

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



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Construction Notes

A. Stream Diversion Structure

Rock Revetment (Sta. (M)12+75 to Sta. (M)14+00)

Rock Revetment Transition Area, blend to match existing

HMA replacement (Sta. (M)12+75 to Sta. (M)17+00)



Manastash Rd

Manastash Creek

Bank Stabilization

1/26/2023

Designed By:

Entered By:

County Engineer: J. Fredrickson

P.W. Director:

M. Cook

Date

Ву

C. Curtis

C. Curtis

Revision







Federal Aid No. FLAP-19DE(001)

C.R.P. No.

273-16

Project Overview

PO-01

PT. SE 1/4 SEC 14. & SW 1/4 SEC 15 T17N R16E, W.M.



A. High visability silt fence per WSDOT standard plan I-30.17-01.

B. Additional BMPs to be deployed as necessary

***************************************	ESC L	ine Table
Line #	Length	Direction
LI	342.33	N59' 53' 56.82"W
L2	40.83	N55' 15' 44.55"W
L3	11.95	N38' 23' 12.54"W
L4	40.39	N39' 06' 49.69"W
L5	33.02	N45° 25' 38.05"W
L6	46.77	S53' 56' 11.89"E
L7	6.39	N36' 05' 36.94"E
L8	14.66	N21" 06" 20.51"W
L9	85.65	N46" 34" 49.12"W
L10	96.65	N7' 22' 18.84"E
L11	54.18	S50" 56" 42.02"E
L12	98.15	S23' 12' 12.36"E
L13	34.02	S50" 52' 51.95"E
L14	94.77	\$58° 13' 10.00"E
L15	36.98	S75" 17" 16.43"E
L16	58.10	S33" 59" 18.30"E
L17	20.25	\$36° 00' 20.71"W
L18	11.47	S0* 43' 38.54"E
L19	101.02	S58" 56' 50.10"E
L20	12.82	N30' 48' 25.21"E
L21	135.07	S59' 05' 03.65"E
L22	12.83	\$30° 54° 56.35"W
L23	19.91	S58" 58" 52.45"E

Manastas	sh Rd =	
Manastash Bank Stabil		
Ballk Stabil		
1/26/20)23	
Designed By:	C. Curt	is
Entered By:	C. Curt	is
County Engineer:	J. Fredr	ickson
P.W. Director:	M. Coo	k
Revision	Date	Ву



Know what's below. Call before you dig.





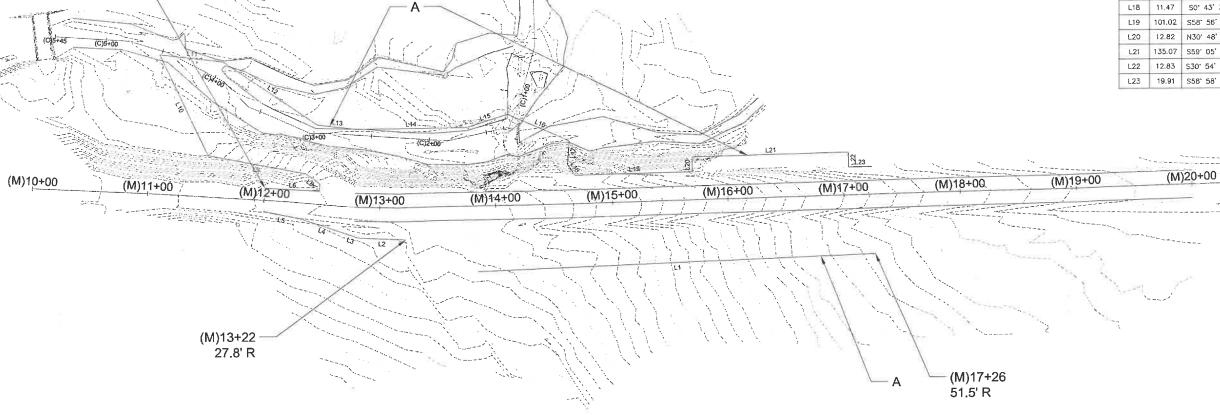
Federal Aid No. FLAP-19DE(001) C.R.P. No.

273-16

Temporary Erosion and Sediment Control

TE-01 04 / 15

{



6. All sedimentation and erosion control facilities must be in operation

prior to any construction activities to ensure that sediment laden water does not enter the natural drainage system. The

implementation, maintenance, replacement and additions to the

 The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet

anticipated site conditions. As construction progresses, additional

created by construction activities or changing weather conditions,

and to provide additional facilities as may be needed to protect

8. The High Visibility Silt fence will delineate the clearing limits for this

sensitive areas or storm drainage systems.

facilities may be needed to ensure complete siltation control. It is the contractor's responsibility to address any conditions that may be

of the contractor.

project.

erosion and sedimentation control systems shall be the responsibility

(M)12+00 10.3' L

General Notes

1. All stationing is based on centerline of roadways unless otherwise

2. Unless otherwise provided for in these plans and specifications, all

requirements of the current edition of the State of Washington,

3. Approved construction plans shall be on the job site at all times

companies in order to assure that all lines, conduits, poles, vaults,

contractor's responsibility to adjust the manholes and valve cases

5. Refer to the 2019 Department of Ecology Stormwater Management

4. It will be the contractor's responsibility to contact all utility

prior to grinding and to the final grade after paving.

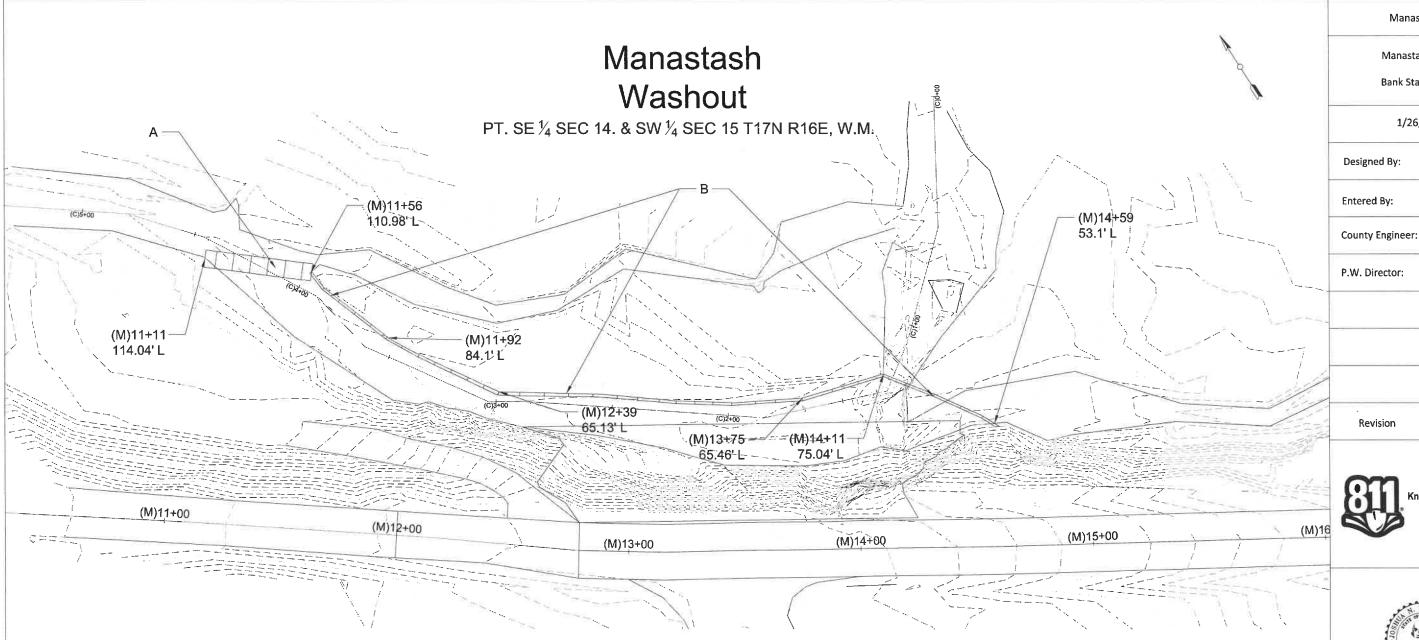
and other appurtenances are properly located. It will be the

when project is under construction.

Manual for Eastern Washington.

Department of Transportation Standard Specifications for Road and Bridge Construction and Title 12 of the Kittitas County Code.

materials and workmanship shall be in accordance with the



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- 5. Refer to the 2019 Department of Ecology Stormwater Management Manual for Eastern Washington.

- 6. All sedimentation and erosion control facilities must be in operation prior to any construction activities to ensure that sediment laden water does not enter the natural drainage system. The implementation, maintenance, replacement and additions to the erosion and sedimentation control systems shall be the responsibility of the contractor.
- 7. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses, additional facilities may be needed to ensure complete siltation control. It is the contractor's responsibility to address any conditions that may be created by construction activities or changing weather conditions, and to provide additional facilities as may be needed to protect sensitive areas or storm drainage systems.

- A. Bulk Bags for stream diversion (minimum height 40")
- Sandbag wall for stream diversion (minimum height 28")
- C. Station and offset data is given from the most recent survey, however the entire area is wetland and the creek boundry likely changes from season to season.





Manastash Creek

Bank Stabilization

1/26/2023

Designed By:

C. Curtis

C. Curtis

J. Fredrickson

M. Cook

Revision Date Ву







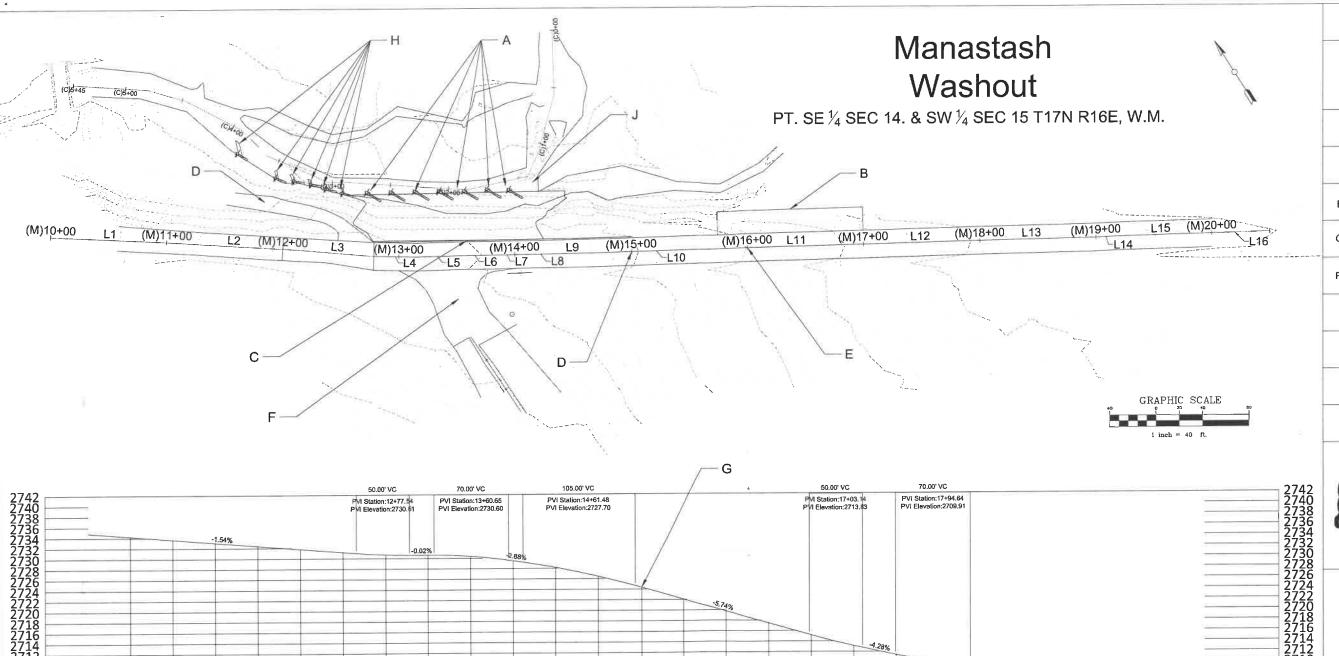
Federal Aid No.

FLAP-19DE(001)

C.R.P. No. 273-16

Stream Bypass

BP-01



10+00 10+40 10+80 11+20 11+60 12+00 12+40 12+80 13+20 13+60 14+00 14+40 14+80 15+20 15+60 16+00 16+40 16+80 17+20 17+60 18+00 18+40 18+80 19+20 19+60 20+00 20+40 20+80 21+20

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- 5. Where newly constructed paving meets existing paving, the contractor shall provide a butt-joint. Application of a thin tack coat of emulsified asphalt shall be applied to the existing vertical edge to ensure proper
- 6. The completed surface shall meet the requirements of special provision

Construction Notes

- A. Large woody structures Type A. Typical spacing 20ft. See DT-02 for details.
- B. Area of required fill (minimum 3H:1V). Additional details in Special Provision ####
- C. Type 31 Beam Guardrail per WSDOT Standard Plan C-20.10-07. Details on GR-01.
- D. Begin Pavement Transition ((M)15+00).
- E. Paving Limits ((M)16+00), match existing cross slope
- F. Restore existing driveway with CSBC or material approved by property owners.
- G. Existing profile to be maintained.
- H. Rock barbs and Large Wood Material Type B. Typical spacing 15ft. See DT-03 for details.

		Line Tal	ole: (M) Line	
Line #	Length	Direction	Start Point	End Point
L1	100.56	S54" 47" 06"E	(593868,1566772)	(593810,1566854)
L2	115.17	S53" 52' 31"E	(593810,1566854)	(593742,1566947)
L3	62.74	S52" 26" 03"E	(593742,1566947)	(593703,1566996)
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L5	35.76	S58" 58" 23"E	(593683,1567028)	(593664,1567058)
L6	28.54	\$58' 04' 08"E	(593664,1567058)	(593649,1567082)
L7	26.42	S58" 55" 15"E	(593649,1567082)	(593636,1567105)
L8	31.73	S58" 12" 12"E	(593636,1567105)	(593619,1567132)
L9	23.12	S58' 37' 11"E	(593619.1567132)	(593607,1567152)
L10	119.08	S59" 11' 23"E	(593607,1567152)	(593546,1567254)
L11	122.56	S59' 05' 04"E	(593546,1567254)	(593483,1567359)
L12	91.56	S59' 09' 08"E	(593483,1567359)	(593436,1567438)
L13	100.28	S58' 49' 04"E	(593436,1567438)	(593384,1567524)
L14	27.26	S59" 48" 23"E	(593384,1567524)	(593370,1567547)
L15	67.64	559" 14" 51"E	(593370,1567547)	(593336,1567605)
L16	60.18	\$59° 17° 10″E	(593336,1567605)	(593305,1567657)

- Manast	ash Rd
Manastas Bank Stab	
1/26/	2023
Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	J. Fredrickson
P.W. Director:	M. Cook



Revision

By

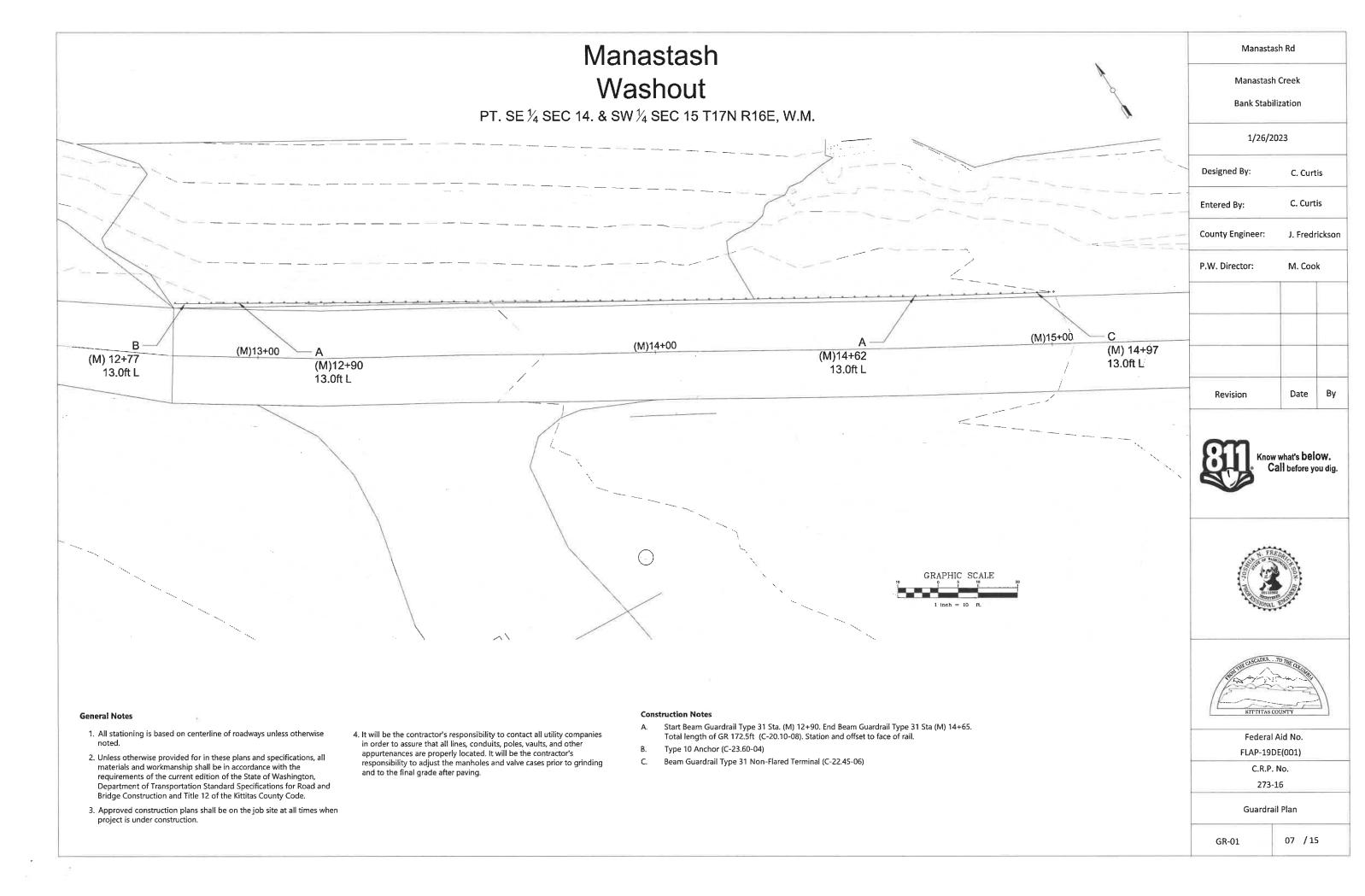
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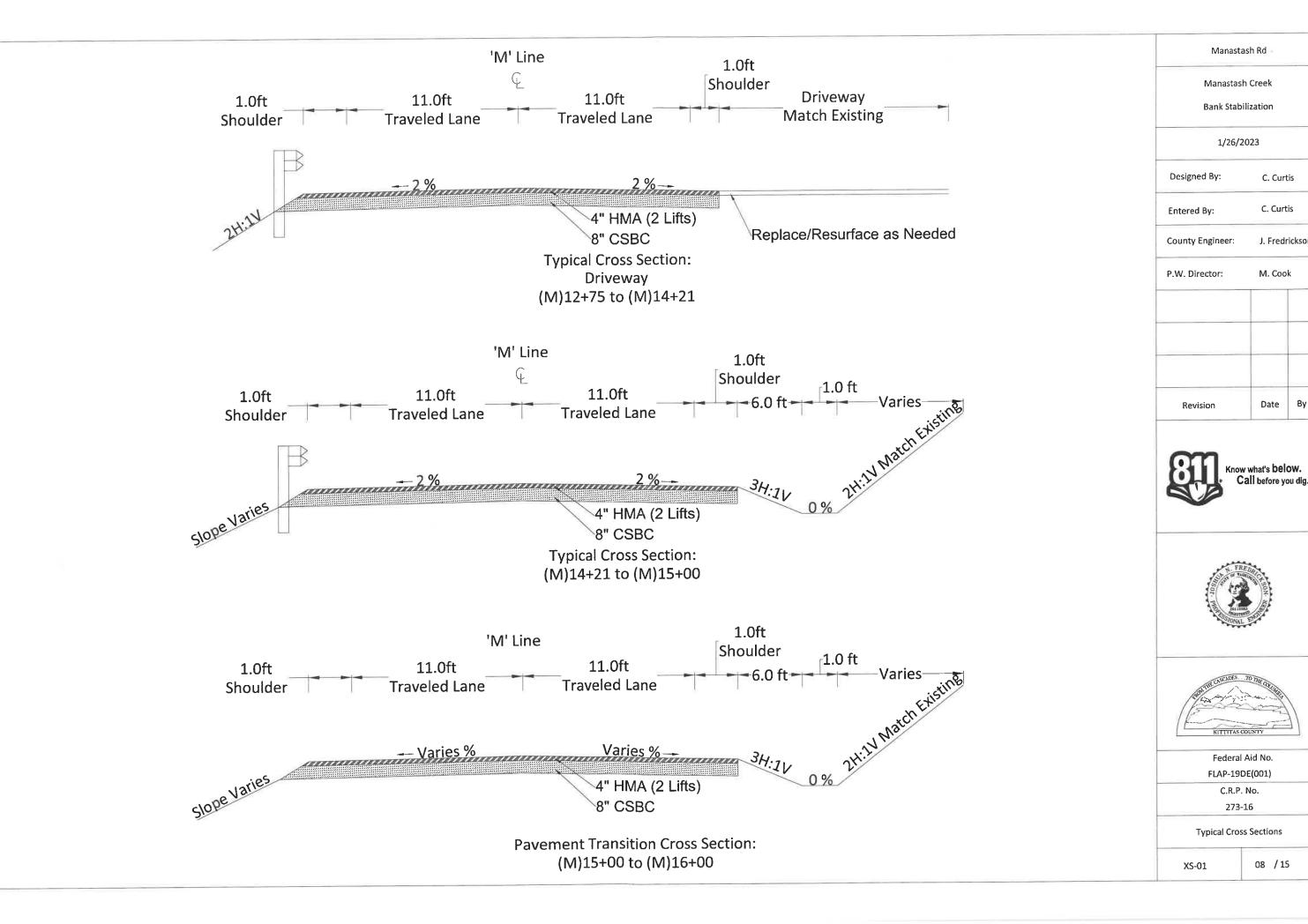




Fede	eral Aid No.
FLAP-	-19DE(001)
C.	R.P. No.
2	273-16
Plan	and Profile

PP-01 06 / 15





C. Curtis

C. Curtis

M. Cook

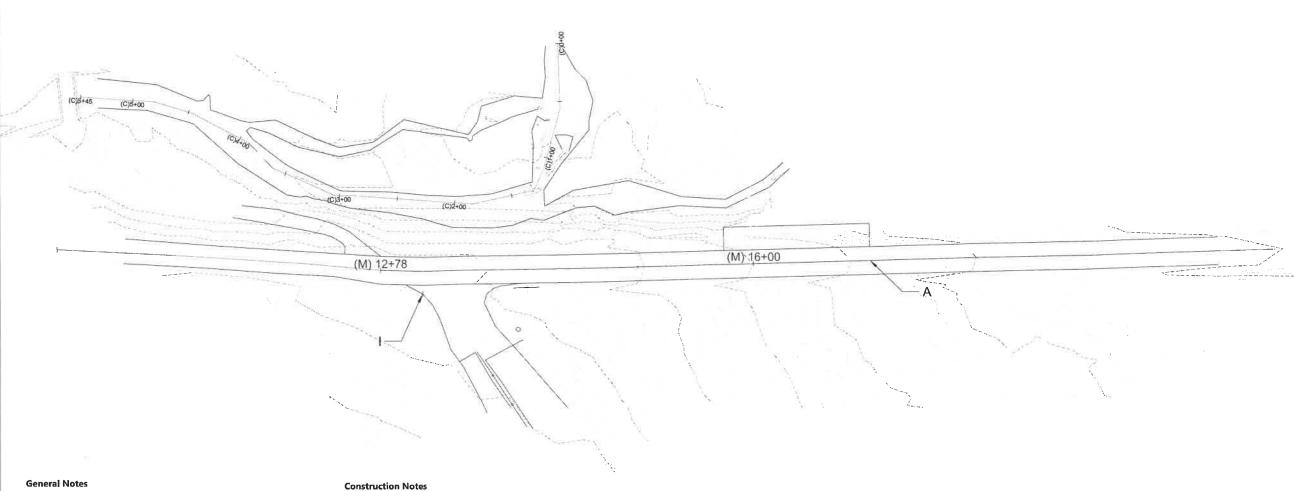
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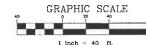
J. Fredrickson

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



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- A. Match exisisting striping from Sta. (M) 12+78 to Sta. (M)16+00
- B. Existing 'End of County Road' sign to be reinstalled at same location (Sta. (M)13+15 Offset: 19.7'R). All other signs to be protected and preserved throughout project.



Manastash Rd

Manastash Creek

Bank Stabilization

1/26/2023

Designed By:

Entered By:

C. Curtis

J. Fredrickson

C. Curtis

County Engineer:

P.W. Director: M. Cook

Revision Date







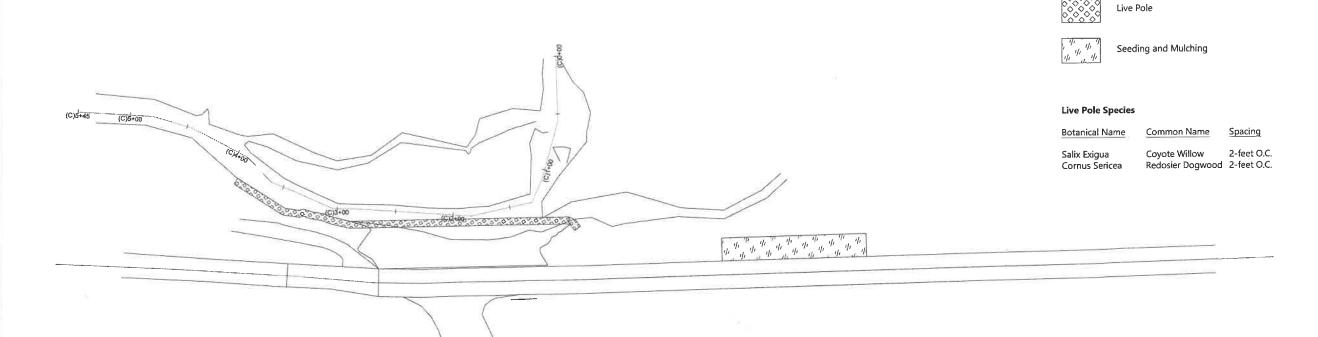
Federal Aid No. FLAP-19DE(001)

> C.R.P. No. 273-16

Striping and Sign Details

SP-01

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.

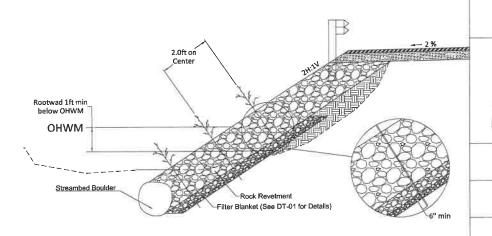


General Notes

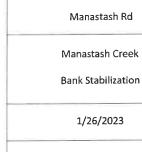
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Construction Notes

- A. Planting per schedule on this page. Additional Details in Special Provision #####
- B. Live poles shall be placed on the south bank of Manastash Creek from the toe of the slope to the ordinary high water mark. Seeding and mulching shall be placed on all areas of disturbed soil. Additional Details in Special Provsion ####



1 inch = 40 ft



Designed By:

C. Curtis Entered By:

County Engineer: J. Fredrickson

C. Curtis

P.W. Director: M. Cook

Ву Date Revision

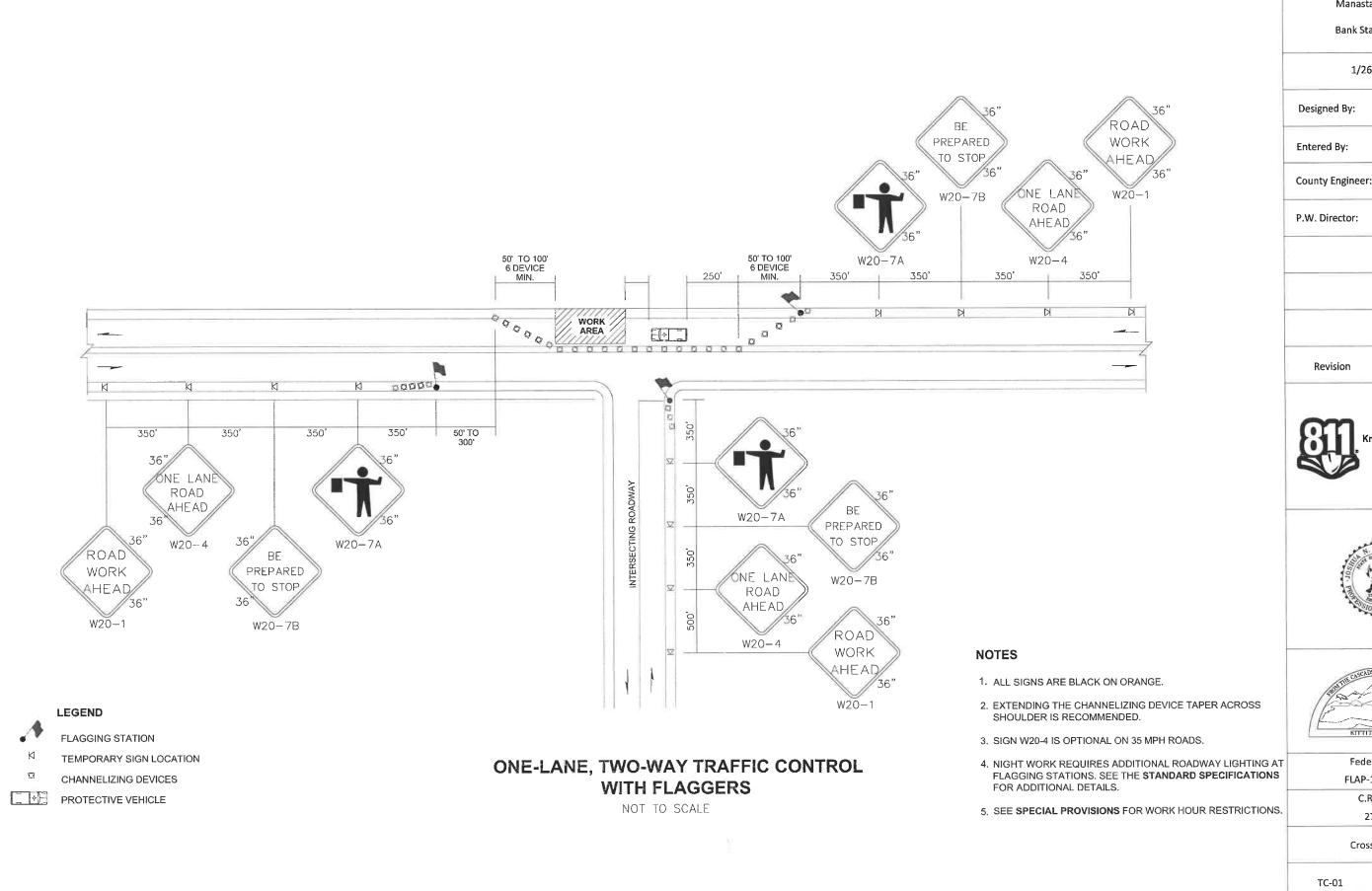






Federal Aid No. FLAP-19DE(001) C.R.P. No. 273-16 Planting Schedule

10 / 15 PS-01



Manastash Rd

Manastash Creek
Bank Stabilization

1/26/2023

Designed By: C. Curtis

Entered By: C. Curtis

County Engineer: J. Fredrickson

P.W. Director: M. Cook



Date

Ву

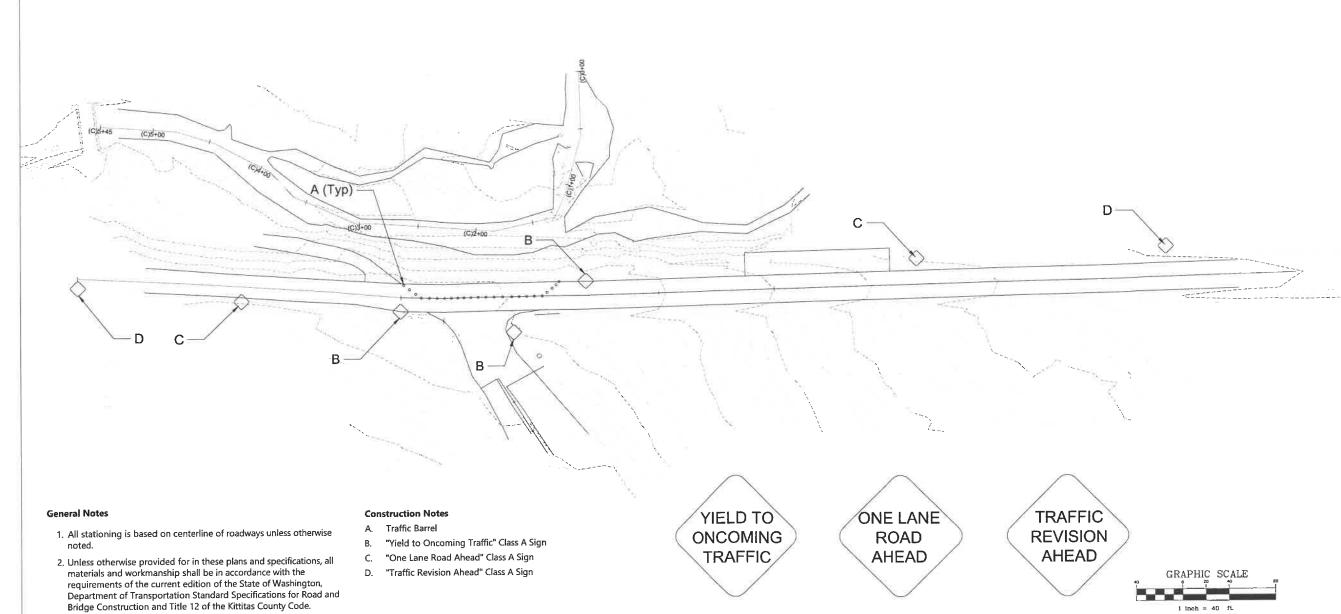




Federal Aid No.
FLAP-19DE(001)
C.R.P. No.
273-16
Cross Section

2-01 11 / 15

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



3. Approved construction plans shall be on the job site at all times when project is under construction.

4. It will be the contractor's responsibility to contact all utility companies in order to assure that all lines, conduits, poles, vaults,

prior to grinding and to the final grade after paving.

and other appurtenances are properly located. It will be the contractor's responsibility to adjust the manholes and valve cases

Manastash Rd Manastash Creek Bank Stabilization 1/26/2023 Designed By: C. Curtis C. Curtis Entered By: County Engineer: J. Fredrickson P.W. Director: M. Cook Ву Date



Revision

Know what's below. Call before you dig.

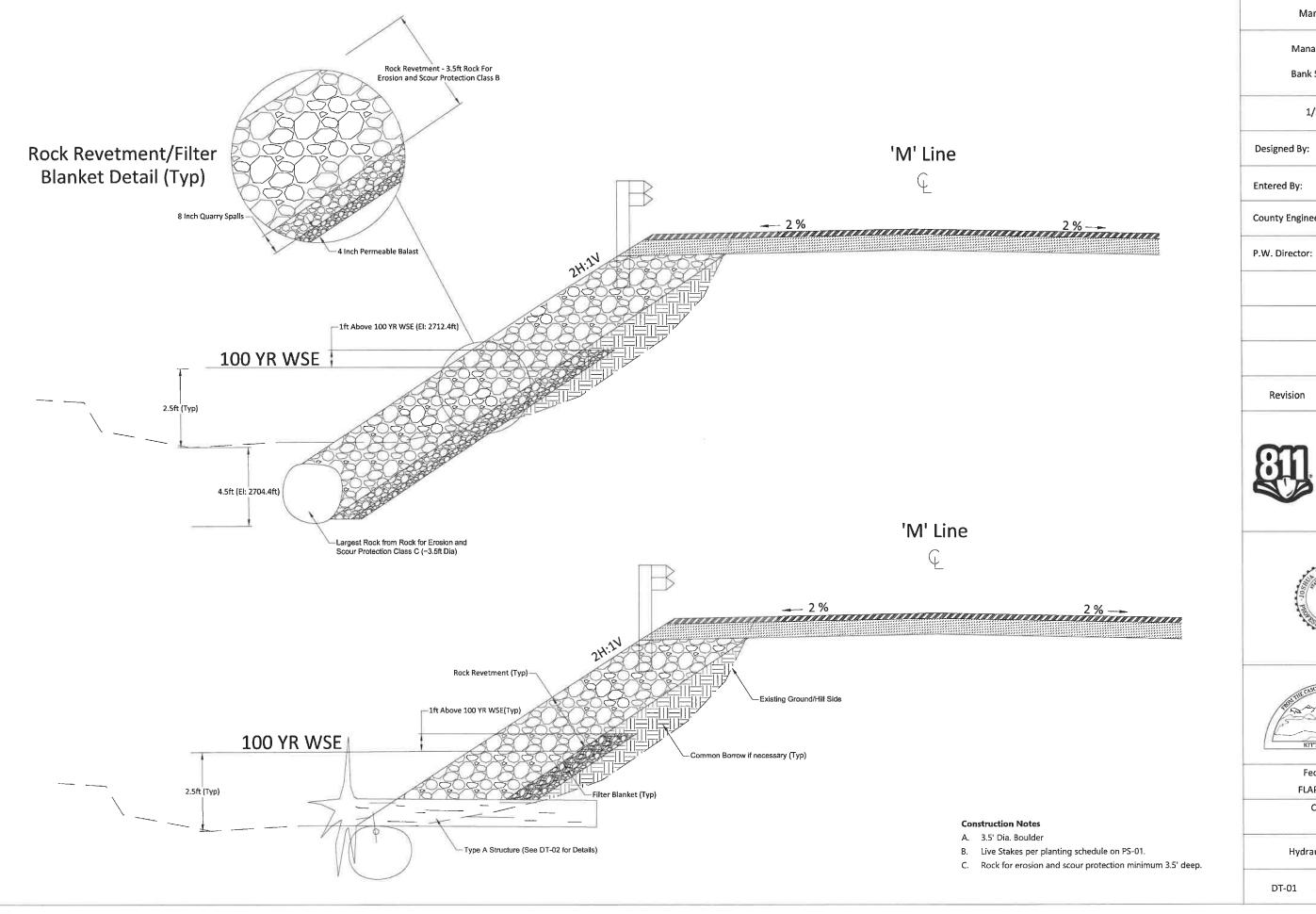




Federal Aid No. FLAP-19DE(001) C.R.P. No. 273-16

After Hours Traffic Control

12 / 15 TC-02



Manastash Rd

Manastash Creek
Bank Stabilization

1/26/2023

Designed By: C. Curtis

Entered By: C. Curtis

County Engineer: J. Fredrickson

P.W. Director: M. Cook

Revision Date By



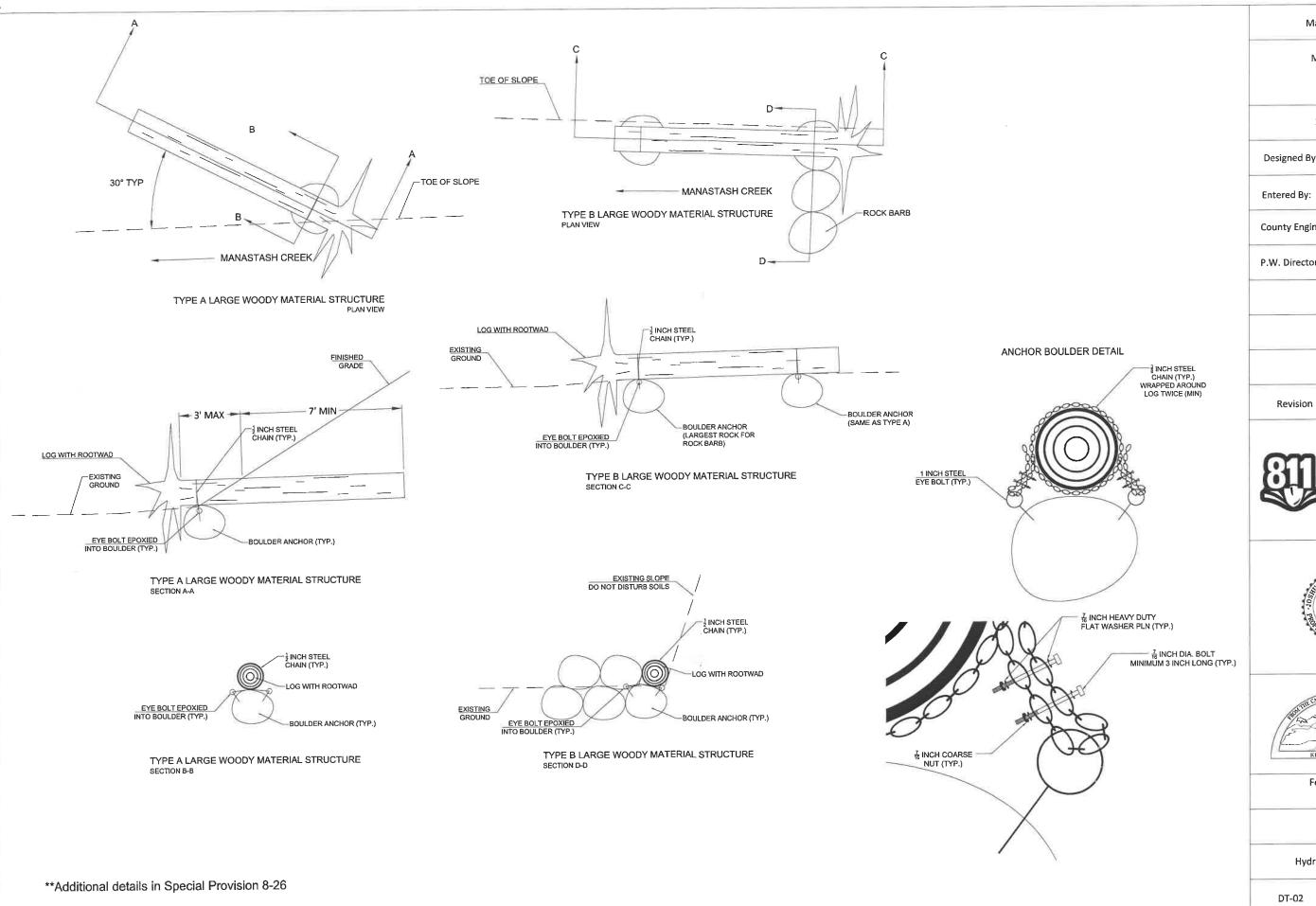




Federal Aid No.
FLAP-19DE(001)
C.R.P. No.
273-16

Hydraulic Structures

DT-01 13 / 15



Manashtash Rd Manashtash Washout 1/26/2023 Designed By: C. Curtis C. Curtis County Engineer: J. Fredrickson P.W. Director: M. Cook Ву Date



Know what's below. Call before you dig.

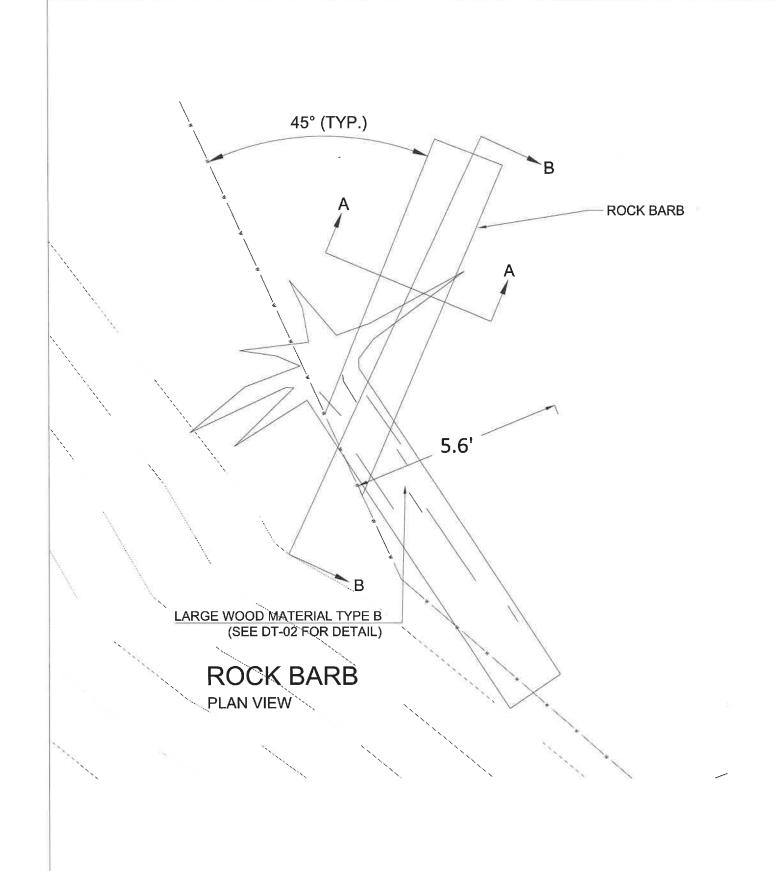


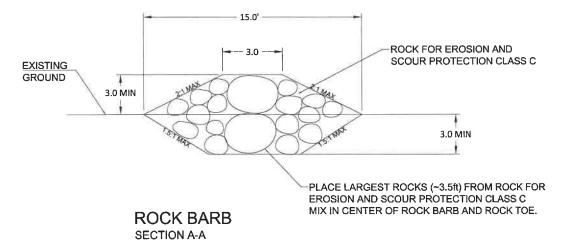


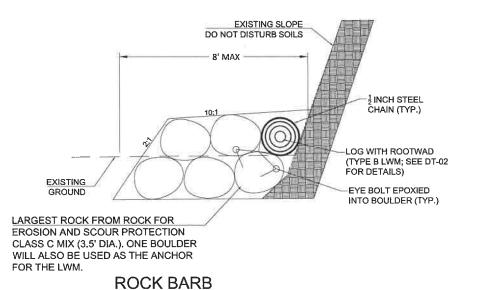
Federal Aid No.

C.R.P. No.

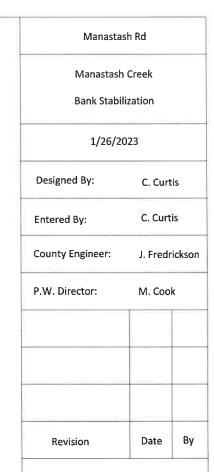
Hydraulic Structures







SECTION B-B









Federal Aid No.
FLAP-19DE(001)
C.R.P. No.
273-16
OPTION A

DT-03