Lewis County Public Works
Chehalis, Washington 98532
May 12, 2021

ATTENTION: All Bidders and Planholders

2019 County Safety Program – Phase 2, F. A. Project No. HSIP-000S(553), CRP 2191B

Addendum No. 2

The Contract Documents for this project are amended as follows:

Special Provisions

1. **The Attached Section 7-06 Temporary Stream Diversion shall be added to Division 7 of the Contract.**

2. **The attached Section 8-02 with new bid item.**

3. **The attached new Proposal for Appendix C**

4. **The attached 9 pages of revised Contract Plans to be replaced in Appendix F**

Bidders shall furnish the County with evidence of receipt of this Addendum. This Addendum will be incorporated in the contract when awarded and when formally executed.

GEOFF RIDGEMEN SODERQUIST
STATE OF WASHINGTON
#50126
REGISTERED
PROFESSIONAL ENGINEER

05/12/2021

Geoff Soderquist, P.E.
Assistant County Engineer

Attachment:

Section 7-06
Section 8-02
New Proposal pages
9 revised Contract Plan pages

(******)

7-06 Temporary Stream Diversion

7-06.1 Description

This work shall include designing, installing, operating, maintaining, removing, and disposing of the temporary stream diversion, environmental compliance and other Work as detailed in these Specifications.

7-06.2 Materials

All materials shall be as detailed in the Contractor's Temporary Stream Diversion (TSD) Plan.

7-06.3 Construction Requirements

7-06.3(1) General

The Work shall include compliance with Washington State Water Quality Standards in WAC 173-201A, project permits, environmental commitments and these Provisions.

The temporary stream diversion may be either a gravity or a pumped system. Pump screens must comply with the requirements of these Special Provisions. Once a pumped diversion begins, the pump must run continuously until it is no longer necessary to bypass flows. The Contractor shall have back-up pumps on site and shall provide twenty-four hour monitoring of the pumping operation. Monitoring can be achieved by providing monitoring personnel on site or through remote sensing and instrumentation to verify operation of the bypass. If the Contractor elects to monitor by remote sensing and instrumentation, a Type 2 Working Drawing shall be submitted outlining how system operation will be monitored, how alerts will be made and how personnel will respond to a diversion system failure.

The temporary stream diversion including water that is retained by the temporary stream diversion and any dewatering system shall be located within the permitted impact areas as shown in the Plans. The upstream diversion dam shall be constructed to a height sufficient to prevent stream flow from entering the work area. Scour protection shall be provided at the outfall of the temporary stream diversion systems and dewatering system to prevent flow re-entering the stream channel from mobilizing streambed and embankment sediments. When a temporary stream diversion is located in or near an intertidal zone the temporary stream diversion design shall take tidal influence into consideration.

For each temporary stream diversion the Contractor shall arrange a meeting with the Engineer prior to implementation of the TSD Plan. At this meeting the Contractor shall explain to the Engineer the Work to be completed for the temporary stream diversion. The meeting shall be a minimum of 7 calendar days prior to start of the temporary stream diversion work.

The TSD shall be operational prior to performing any other work below the Ordinary High Water Line.

7-06.3(2) Temporary Stream Diversion Plan

7-06.3(2)A General Plan Requirements

The Contractor shall submit a Temporary Stream Diversion Plan in accordance with the requirements of a Type 2E Working Drawing and these Specifications. A separate TSD Plan shall be prepared and submitted for each temporary stream diversion that is required. The TSD Plan shall consist of a narrative and drawings detailing all temporary stream diversion requirements and shall encompass and protect all the areas affected by the Contractor's temporary stream diversion Work.

The Contractor shall fully implement the TSD Plan throughout the duration of the associated Work. The Contractor shall update the TSD Plan throughout project construction to reflect actual site conditions and the Contractor's Work. Changes to plan shall comply with WAC 196-23-020. At the request of the Engineer an updated TSD Plan shall be submitted as a Type 2E Working Drawing. A copy of the TSD Plan shall be on the project site at all times.

The TSD Plan shall describe measures that will be taken to comply with Washington State Water Quality Standards in WAC 173-201A, applicable permits, environmental commitments and these Provisions.

The Contractor shall incorporate the Diversion Schedule and Sequence into their Progress Schedule.

(******)

7-06.3(2)B Stream Flows

Minimum Stream Flows

At all times of operation the Contractor's temporary stream diversion shall be designed to convey the following minimum flow rate of water in cubic feet per second:

*** $$3 cfs for the summer high flow $$ ***

During all phases of the bypass installation and decommissioning, the Contractor shall maintain flows downstream of the project site.

(******)

7-06.3(2)C Plan Requirements

The TSD Plan shall provide the following information in the following order:

1. Description and Location of the temporary stream diversion

    a. Identify the name of the water body where the temporary stream diversion will be placed. Provide a description of the temporary stream diversion.

    b. Provide drawings showing the location of the temporary stream diversion, including proposed access routes and equipment to be used to construct the diversion.

2. Schedule and Sequence

    a. Provide a sequence of Work, dates, and durations for when the following will occur, in accordance with the in-water work window in the Special Provisions:

        i. TSD Plan Implementation Meeting

        ii. TSD installation.

        iii. Dewatering of the isolated Work area.

        iv. Restoration and stabilization of the temporary stream diversion Work area to prevent erosion.

vi. Any relocations of the temporary stream diversion to accommodate the Work sequence (if needed).

vii. Channel rewatering.

viii. Removal of the TSD.

b. Include other Work that needs to be coordinated with the TSD (e.g., temporary erosion control).

3. Calculations and Materials

a. Detail all elements of the temporary stream diversion; including but not limited to pipes, pumps, and other equipment.

b. Calculations shall demonstrate the diversion system conveys the minimum peak flow specified by the Contracting Agency and include tidal influence where applicable.

c. Temporary stream diversion shall include a water conveyance system to be used for dewatering and rewatering that is capable of conveying the flow required for the temporary stream diversion.

d. Methods for anchoring temporary stream diversion pipe and associated hardware; include calculations to demonstrate the devices ability to anchor the pipe and associated hardware.

e. Specifications for all materials and equipment to be used as part of the diversion including pump or diversion capacities and hose sizes. For example, provide the type, profile, and size of pipe.

4. Stream Flow Blocking and Dewatering

a. Provide the method(s), including locations and details (narrative and drawings) for blocking both the upstream and downstream ends of the diversion. Describe how minor leakage from upstream and downstream will be addressed.

b. Include provisions for scour protection at the temporary stream diversion outfalls.

c. Identify the means and methods for dewatering water and disposal of the water.

5. Inspection and Maintenance

a. Provide the schedule and frequency for inspection of the temporary stream diversion; include weekends and holidays.

b. Describe how maintenance will be conducted when inspections identify deficiencies in the temporary stream diversion. These include, but are not

limited to removal and disposal of trapped sediment or debris and repairing leaks.

c. The Contractor shall keep a record of all inspections and maintenance of the temporary stream diversion.

6. Rewatering the Stream Channel

a. Detail how the stream channel will be rewatered to comply with water quality requirements.

7. Removal of the Temporary Stream Diversion

a. Describe the sequence that will be used for removing the temporary stream diversion and methods to prevent water quality impacts.

b. Describe how disturbed soil will be permanently stabilized.

c. Describe any temporary pipes to remain (requires approval of the Engineer): their type, pipe class, size, location, and plugging procedure.

8. Other Work required for the Contractor's temporary stream diversion

7-06.3(5) Inspection and Maintenance

At a minimum, the Contractor shall perform the following activities once per day (including weekends and holidays):

1. Check for and correct leaks;

The Contractor shall maintain a written record of all inspection and maintenance activities; record to be available at the request of the Engineer.

7-06.3(6) Rewatering the Stream Channel

The Contractor shall notify the Engineer a minimum of 7 calendar days in advance of rewatering the stream channel.

The Contractor shall introduce water to the new stream channel section and trap sediments until the stream section meets the requirements of these Provisions. Rewatering shall occur at a rate to avoid loss of surface water downstream while the new channel section is rewatered.

7-06.3(7) Removal of the Temporary Stream Diversion

The Contractor shall notify the Engineer two business days in advance of beginning the temporary stream diversion removal sequence.

Once the water in the new stream channel will meet the applicable turbidity standards the Contractor may begin removal of the temporary stream diversion and the stream channel opened to flows.

The Contractor shall immediately take all corrective actions necessary to prevent the water from exceeding the turbidity standards should the stream turbidity increase. All Work within the channel, except for removal of the temporary erosion control items, shall be completed before

the temporary stream diversion is removed. The Contractor must finish all construction activities within the limits of the Ordinary High Water Line, including but not limited to culvert installation and creek bed channel restoration, before the Contracting Agency will remove the fish block nets.

All materials used for the diversion shall become the property of the Contractor and removed from the project limits, with the exception of any materials supplied by the Contracting Agency, unless otherwise specified by the Engineer.

7-06.4 Vacant

7-06.5 Payment

Payment will be made for the following Bid items when included in the proposal:

(******)
"Temporary Stream Diversion", lump sum.
The lump sum Contract price for "Temporary Stream Diversion" shall be full payment to perform the Work as specified. Progress payments for the lump sum item "Temporary Stream Diversion" will be made as follows:

1. Twenty-five percent of the bid amount will be paid following completion of the TSD Plan including resolution of all Contracting Agency review comments.

2. The remaining seventy-five percent of the bid amount shall be paid in accordance with Section 1-09.9.

8-02 ROADSIDE RESTORATION

8-02.3 Construction Requirements

Section 8-02.3 is supplemented with the following:

8-02.3(9) Seeding, Fertilizing, and Mulching

8-02.3(9)B Seeding and Fertilizing

(******)
Section 8-02.3(9)B is supplemented with the following:

Seed Mix - Roadside: Grass seed, of the following composition, proportion, and quality shall be applied at the rate of ***80 *** pounds of pure live seed per acre on all areas requiring permanent roadside seeding within the project limits.

Kind and Variety of Seed in Mixture by Common Name and (Botanical name)	Pounds Pure Live Seed (PLS) Per Acre
Deschampsia elongata Slender Hairgrass	5.88
Elymus glaucus Blue Wildrye	39

Festuca idahonesis Idaho Fescue	12.74
Festuca ovina Sheep Fescue	4.21
Hordeum brachyantherum Meadow Barley	16.86
Koeler cristata Prairie Junegrass	1.31
Total Pounds PLS Per Acre	80

After seeding the Contractor shall be responsible to ensure a healthy stand of grass, otherwise, the Contractor shall, restore eroded areas, clean up materials, and reapply the seed, at no cost to the Contracting Agency.

Seeds shall be certified "Weed Free," indicating there are no noxious or nuisance weeds in the seed.

8-02.3(11) Mulching

(******)

8-02.3(11)A Mulch for Seeding Areas

Section 8-02.3(11)A is supplemented with the following:

Long-Term Wood Cellulose Fiber mulch shall be applied at a rate of 4,000 pounds per acre with all permanent seed mixes and shall conform to Section 9-14.5(2)A Long-Term Mulch of the Standard Specifications. No more than 2,000 pounds shall be applied in any single lift.

8-02.4 Measurement

Section 8-02.4 is supplemented with the following:

(******)

"Seeding and Mulching" shall be measured per acre.

8-02.5 Payment

Section 8-02.5 is supplemented with the following:

(******)

The unit contract price per Acre for "Seeding and Mulching" shall be full pay for furnishing and installing the specified seed mix, mulch, and PAM, chemical weed and grass control/removal immediately prior to seeding to produce the specified surface conditions, scarification of compacted areas, minor filling of ruts, and all material and equipment necessary and incidental to the approved application of the specified seed.

PROPOSAL

TO: BOARD OF COUNTY COMMISSIONERS
LEWIS COUNTY
CHEHALIS, WASHINGTON 98532

This certifies that the undersigned has examined the location of the 2019 County Safety Program - Phase 2, F.A. Project No. HSIP-000S(553), CRP 2191B, in Lewis County, Washington, and that the plans, specifications and contract governing the work embraced in these improvements, and the method by which payment will be made for said work is understood. The undersigned hereby proposes to undertake and complete the work embraced in this improvement, or as much thereof as can be completed with the money available in accordance with the said plans, specifications and contract, and the following schedules of rates and prices:

NOTE: Unit prices for all items, all extensions, and total amount of bid shall be shown: All entries must be typed or entered in ink.

ITEM NO.	PLAN QUANTITY		ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	1	L.S.	Mobilization	LUMP SUM	$
2	1	L.S.	Clearing and Grubbing	LUMP SUM	$
3	1	L.S.	Removal of Structures and Obstructions	LUMP SUM	$
4	3	C.Y.	Hazardous Material Excavation Incl. Haul	$	$
5	0	Est.	Hazardous Material Handling and Disposal	ESTIMATED	$0.00
6	10	C.Y.	Roadway Excavation	$	$
7	600	C.Y.	Roadway Excavation Incl. Haul	$	$
8	388	Ton	Select Borrow Incl. Haul	$	$
9	158	L.F.	Schedule A Culv. Pipe 18 In. Diam.	$	$
10	34	L.F.	Cl. III Reinf. Conc.Culv. Pipe 18 In. Diam.	$	$
11	72	L.F.	Cl. V Reinf. Conc.Culv. Pipe 24 In. Diam.	$	$
12	8	L.F.	Plain St. Culv. Pipe Arch, 0.109 In. Th., 64 In. Span	$	$
13	1	L.S.	Temporary Stream Diversion	LUMP SUM	$
14	1	Each	Catch Basin Type 2, 48 In. Diam.	$	$
15	10	L.F.	Schedule A Storm Sewer Pipe, 24 In. Diam.	$	$
16	35	C.Y.	Gravel Backfill for Wall	$	$
17	2,800	Ton	Crushed Surfacing Base Course	$	$
18	110	Ton	Crushed Surfacing Top Course (Keystone)	$	$
19	6	Ton	Commercial HMA	$	$
20	2,240	L.F.	Wattle	$	$
21	156.25	L.F.	Beam Guardrail Type 1 - 8 Ft. Long Post	$	$
22	506.25	L.F.	Beam Guardrail Type 1 - 9 Ft. Long Post	$	$
23	62.5	L.F.	Beam Guardrail Type 1 - 11 Ft. Long Post	$	$

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
24	862.5 L.F.	Beam Guardrail Type 31 - 8 Ft. Long Post	$	$
25	918.75 L.F.	Beam Guardrail Type 31 - 9 Ft. Long Post	$	$
26	606.25 L.F.	Beam Guardrail Type 31 - 11 Ft. Long Post	$	$
27	100 Each	Beam Guardrail Block	$	$
28	2 Each	Beam Guardrail Non-Flared Terminal	$	$
29	11 Each	Beam Guardrail Type 31 Non-Flared Terminal	$	$
30	43.75 L.F.	Beam Guardrail Type 1	$	$
31	150 L.F.	Beam Guardrail Type 31	$	$
32	6 Each	Beam Guardrail Transition Section Type B Connection	$	$
33	3 Each	Beam Guardrail Anchor Type 4	$	$
34	11 Each	Beam Guardrail Anchor Type 10	$	$
35	2,287.5 L.F.	Raising Existing Beam Guardrail	$	$
36	1 L.S.	Project Temporary Traffic Control	LUMP SUM	$
37	12.5 L.F.	New Beam Guardrail Section	$	$
38	329 Each	Underground Utility Verification Pothole	$	$
39	150 C.Y.	Structure Excavation Class B Incl. Haul	$	$
40	20 C.Y.	Gravel Backfill for Foundation Class A	$	$
41	33 C.Y.	Gabion Cribbing	$	$
42	1 L.S.	Trimming and Cleanup	LUMP SUM	$
43	2 Each	Mailbox Support Type 1	$	$
44	0 Est.	Reimbursement for Third Party Damage	ESTIMATED	$0.00
45	1 Calc.	Minor Change	CALCULATED	$ 25,000.00
46	1 L.S.	SPCC Plan	LUMP SUM	$
47	0.31 Acre	Seeding and Mulching	$	$
			TOTAL BID	$

2019 COUNTY SAFETY PROGRAM PHASE II

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		PREPARATION		
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	3	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
		GRADING		
6	0300	ROADWAY EXCAVATION	10	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	600	C.Y.
8	0408	SELECT BORROW INCL. HAUL	388	TON
		DRAINAGE		
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	158	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	34	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	72	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	8	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
		STORM SEWER		
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	1	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	10	L.F.
		STRUCTURE		
16	4025	GRAVEL BACKFILL FOR WALL	35	C.Y.
		SURFACING		
17	5100	CRUSHED SURFACING BASE COURSE	2800	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	110	TON
		HOT MIX ASPHALT		
19	5875	COMMERCIAL HMA	6	TON
		EROSION CONTROL AND ROADSIDE PLANTING		
20	6479	WATTLE	2240	L.F.
		TRAFFIC		
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	156.25	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	506.25	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	62.50	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	862.5	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	918.75	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	606.25	L.F.
27	6755	BEAM GUARDRAIL BLOCK	100	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	2	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	11	EACH
30	6751	BEAM GUARDRAIL TYPE 1	43.75	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	150	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	6	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	3	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	11	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	2287.50	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	12.50	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	329	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		OTHER ITEMS		
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	150	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	20	C.Y.
41	7150	GABION CRIBBING	33	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	2	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM
47	6422	SEEDING AND MULCHING	0.31	ACRE

LEGEND

EXISTING FEATURES

- CULVERT/STORM SEWER
- FLOW (DITCH)
- CENTERLINE
- EDGE OF ROADWAY
- GUARDRAIL
- APPROACH
- BRIDGE/SIDEWALK
- FOG LINE
- FENCE
- SHOULDER
- STREAM
- BUILDING
- SIGN
- MAILBOX

SURVEY FEATURES

- RIGHT OF WAY
- PROPERTY LINE
- PERMANENT SLOPE EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- ROGERS ROAD PRESCRIPTIVE RIGHT OF WAY

NEW CONSTRUCTION FEATURES

- CALLOUT
- CULVERT/ CULVERT EXTENSION
- LANDINGS & FILL SLOPES
- GUARDRAIL
- FILL — FILL — FILL
- CUT — CUT — CUT
- WATTLE

GENERAL NOTES

1. AT ALL TIMES FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ON HAND, THE PROJECT CONTRACT PROVISIONS AND PLANS, AND A CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (M 41-10).

2. THE CONTRACTOR WILL COORDINATE, COOPERATE AND ASSIST IN THE INSPECTION PROCESSES THAT IS REQUIRED FOR THE COMPLETION OF THE PROJECT.

3. AT NO COST TO THE CONTRACTOR, ALL NECESSARY CONSTRUCTION SURVEY REQUESTS SHALL BE GIVEN A 3 DAY IN ADVANCE NOTICE. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.

4. AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT FREE OF DEBRIS AND UNUSED MATERIAL.

5. THE CONTRACTOR IS TO MAINTAIN INGRESS AND EGRESS FROM THE PROJECT SITE, AND PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.

6. AT A MINIMUM, THE CONTRACTOR IS TO MAINTAIN ALTERNATING ONE WAY TRAFFIC CONTROL UNLESS APPROVED TRAFFIC CONTROL PLAN ALLOWS OTHERWISE.

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING BID ITEM	KLP	GRS
1	5/11/2021	CHANGED QUANTITY OF SELECT BORROW FROM 390 TO 388	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
SUMMARY OF QUANTITIES & LEGEND

SHEET 2 OF 4

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

DONALD J CARNEY STATE OF WASHINGTON #42753 REGISTERED PROFESSIONAL ENGINEER
5/23/21

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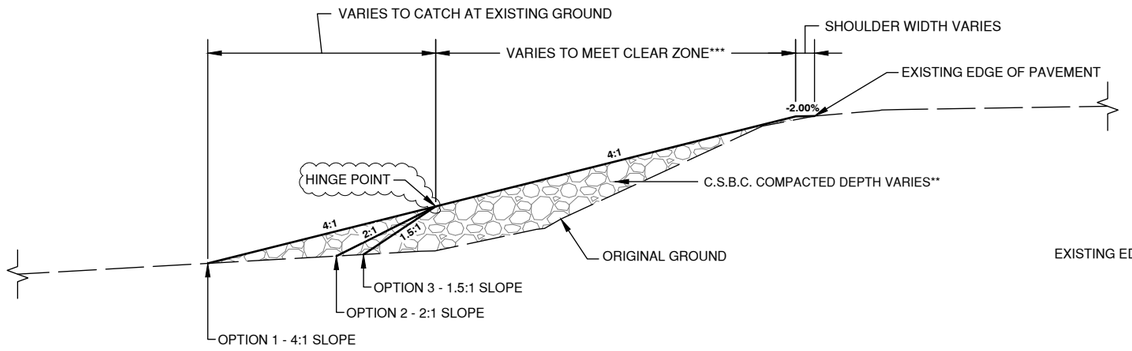


FILL SLOPE TYPICAL SECTION A-A (1-3)

NOT TO SCALE

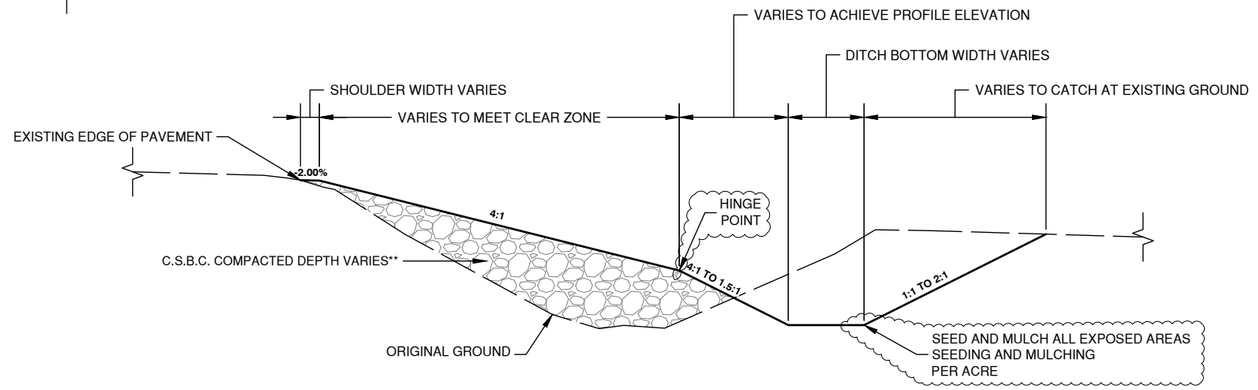
*** CLEAR ZONE LENGTHS SHALL BE 10.00' OFF OF THE EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.

NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.

** ALL SITES SHALL USE C.S.B.C. EXECPT FOR THE FOLLOWING SITES.

- CENTRALIA ALPHA ROAD SITE 1 (APPROACH TO BRIDGE)

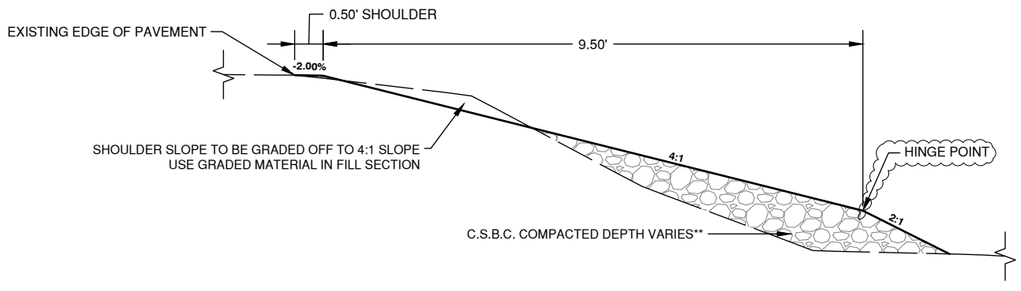
THEY SHALL USE SELECT BORROW UP TO THE HINGE POINT. SEED AND MULCH ALL EXPOSED AREAS AND SELECT BORROW FROM APPROACH TO BRIDGE.



FILL SLOPE TYPICAL SECTION B-B

NOT TO SCALE

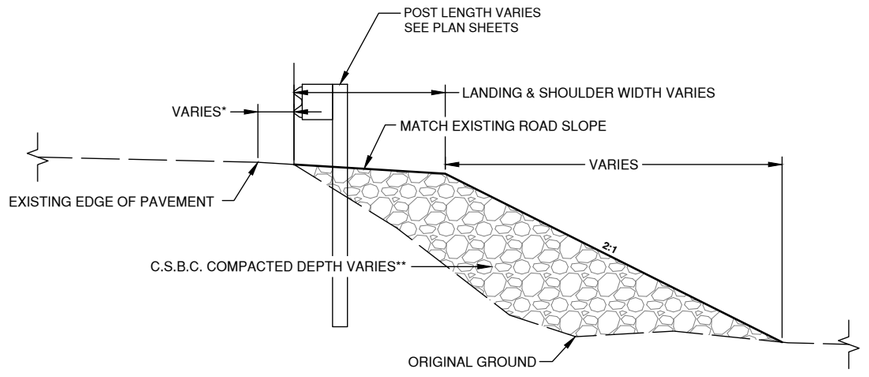
NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.



SHOULDER GRADING TYPICAL SECTION

NOT TO SCALE

NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.



GUARDRAIL TYPICAL SECTION

NOT TO SCALE

* 0.5' MIN @ ALL TYPE 31 GUARDRAIL LOCATIONS

NOTE: POST LENGTHS ARE LISTED FOR ESTIMATE PURPOSES ONLY. ACTUAL LENGTH OF POSTS WILL BE DICTATED BY ACTUAL FIELD CONDITIONS AND BEAM GUARDRAIL POST INSTALLATION DETAIL ON SHEET 4 OF 4.
SHOULDER WIDENING MAY BE REQUIRED AS SHOWN IN THE PLANS TO MEET BEAM GUARDRAIL POST INSTALLATION DETAIL ON SHEET 4 OF 4.

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\TYPICAL SECTION SHEETS.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS
1	5/11/2021	DELETED "REYNOLDS ROAD" FROM SELECT BORROW NOTE	KLP	GRS
1	5/11/2021	CHANGED SELECT BORROW NOTE	KLP	GRS
1	5/11/2021	ADDED "HINGE POINT" LEADER	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO:
COUNTY ROAD PROJECT NO: 2191B

TYPICAL SECTIONS

SHEET 3 OF 4

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design

Date: 2/17/21

DONALD J. CARNEY
STATE OF WASHINGTON
#42753
REGISTERED PROFESSIONAL ENGINEER
5/13/21

CENTRALIA ALPHA ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		PREPARATION		
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
		GRADING		
6	0300	ROADWAY EXCAVATION	2	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	65	C.Y.
8	0408	SELECT BORROW INCL. HAUL	388	TON
		DRAINAGE		
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	0	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	40	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
		STORM SEWER		
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	1	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	10	L.F.
		STRUCTURE		
16	4025	GRAVEL BACKFILL FOR WALL	0	C.Y.
		SURFACING		
17	5100	CRUSHED SURFACING BASE COURSE	997	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	50	TON
		HOT MIX ASPHALT		
19	5875	COMMERCIAL HMA	0	TON
		EROSION CONTROL AND ROADSIDE PLANTING		
20	6479	WATTLE	1785	L.F.
		TRAFFIC		
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	150	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	262.50	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	462.50	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	4	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	4	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	1587.50	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	86	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		OTHER ITEMS		
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	30.50	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	0	C.Y.
41	7150	GABION CRIBBING	0	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM
47	6422	SEEDING AND MULCHING	0.06	ACRE

VICINITY MAP

NOT TO SCALE

Lewis County Department of Public Works

2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING BID ITEM	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B

CENTRALIA ALPHA ROAD
SUMMARY OF QUANTITIES

SHEET CA1 OF CA10

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 "It's the Law" Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design

Date: 2/17/21

DONALD J CARNEY STATE OF WASHINGTON #42753 REGISTERED PROFESSIONAL ENGINEER 5/13/21

5/11/2021 10:16 AM

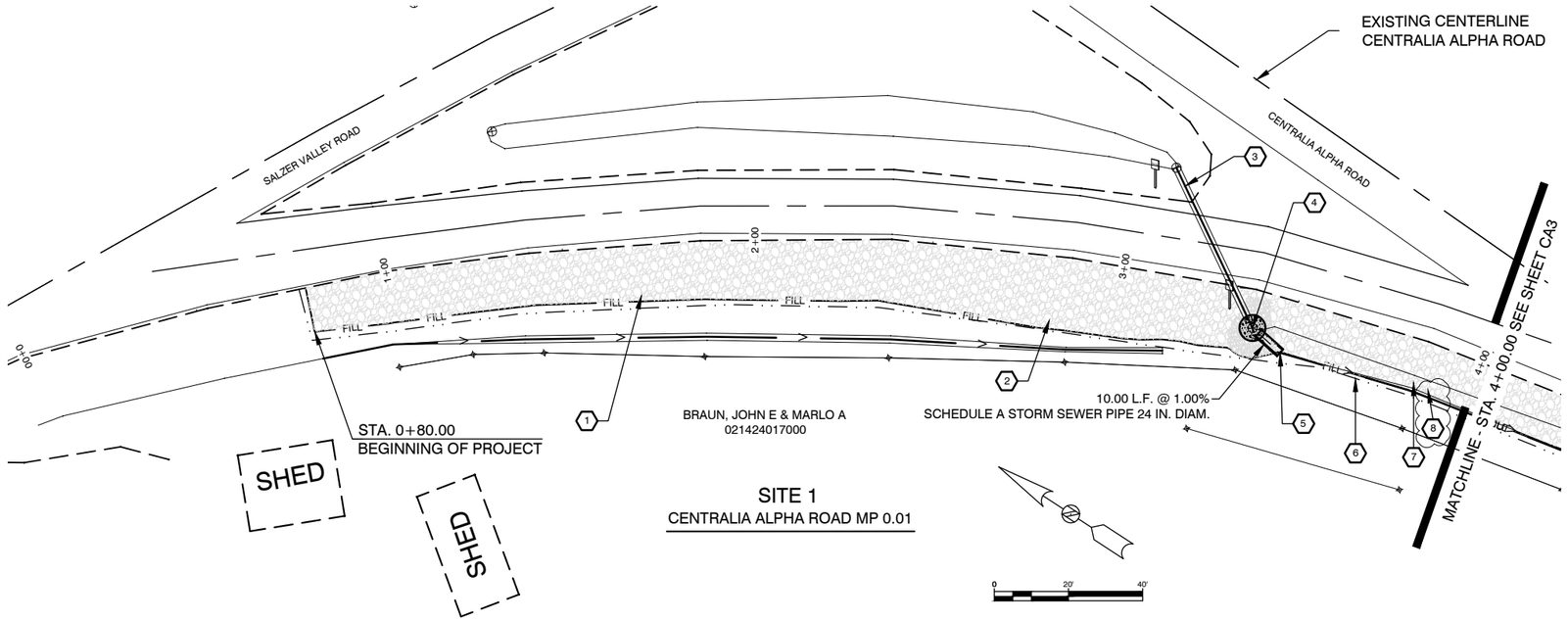
S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

5/11/2021 10:18 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE
CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE
SEWER LINE NOT LOCATED



SITE 1
CENTRALIA ALPHA ROAD MP 0.01

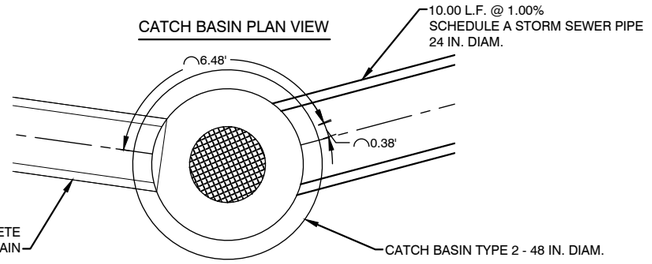
CONSTRUCTION NOTES

1. STA. 0+80.00 TO STA. 2+80.00 CONSTRUCT EMBANKMENT
   SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 2) ON SHEET 3 OF 4
2. STA. 2+80.00 TO STA. 3+40.12 CONSTRUCT EMBANKMENT
   SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
3. EXISTING 18" CONCRETE CULVERT TO REMAIN
4. STA. 3+40.12, 10.24' RIGHT (DISTANCE MEASURED TO CENTER OF BASIN)
   CONSTRUCT CATCH BASIN TYPE 2 - 48 IN. DIAM.,
   WITH CIRCULAR FRAME (RING) AND COVER
   SEE WSDOT STANDARD PLAN CATCH BASIN TYPE 2 48 IN DIAM., B-10.20
   AND CIRCULAR FRAME (RING) AND COVER, B-30.70
   SEE CATCH BASIN TYPICAL SECTION ON SHEET CA5 OF CA10
   6 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
   25 TON CRUSHED SURFACING BASE COURSE
5. STA. 3+42.09 CONSTRUCT SCHEDULE A STORM SEWER PIPE 24" DIAM., 10 L.F.
   SEE WSDOT STANDARD PLAN B-60.20
   INLET INVERT EL. = 180.15 (STA. 3+42.09) 11.15' RT
   OUTLET INVERT EL. = 180.05(STA. 3+49.20) 14.47' RT
   SEE CENTRALIA ALPHA ROAD CULVERT AND BASIN DETAIL ON THIS SHEET
   0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

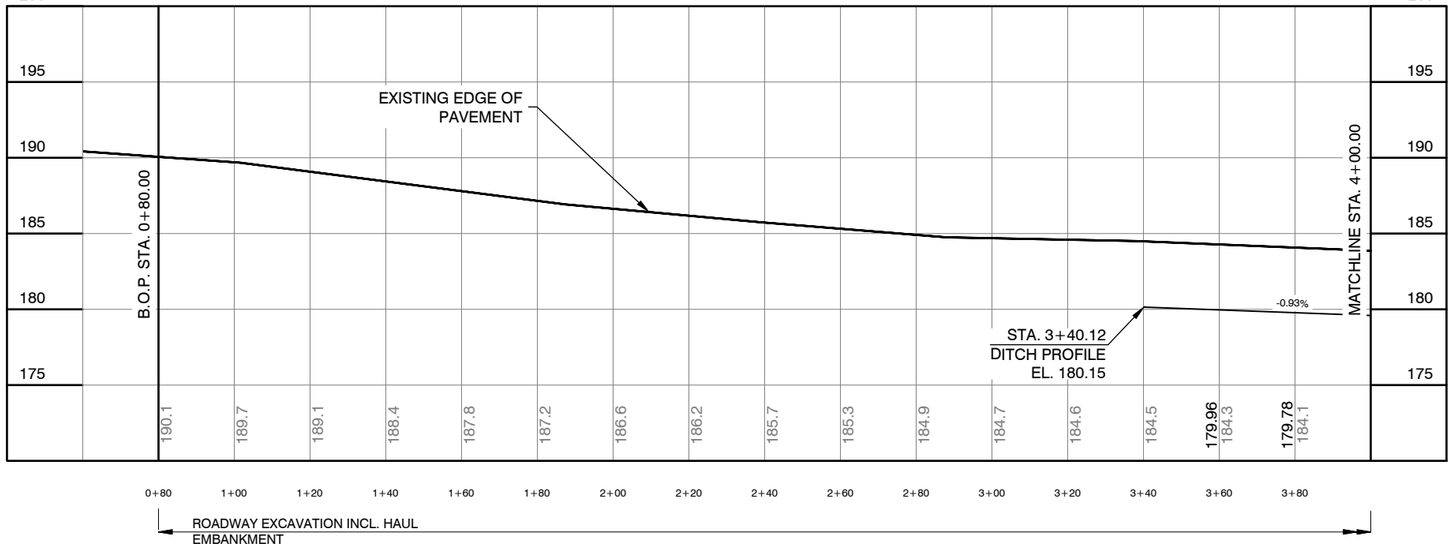
CONSTRUCTION NOTES

6. WATTLE
   1060 L.F.
7. STA. 3+42.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT
   SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4
8. SEED AND MULCH ALL EXPOSED AREAS
   STA. 3+87.00 TO STA. 10+64.11
   SEEDING AND MULCHING
   0.06 ACRES

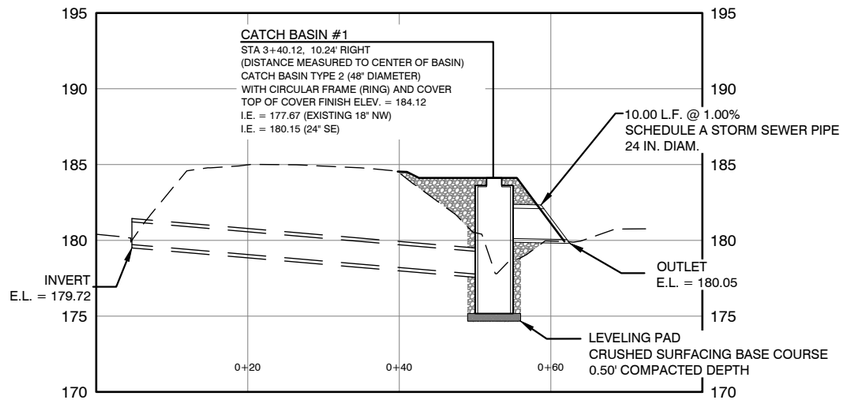
CATCH BASIN PLAN VIEW



CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



CENTRALIA ALPHA ROAD CULVERT AND BASIN



0 10' 20'
VERTICAL: 1" = 5'
SCALE IS FOR FULL SIZE SHEETS

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY :KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS
1	5/11/2021	CHANGED TITLE TO MATCH OTHER SHEETS	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET
CA2
OF
CA10

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

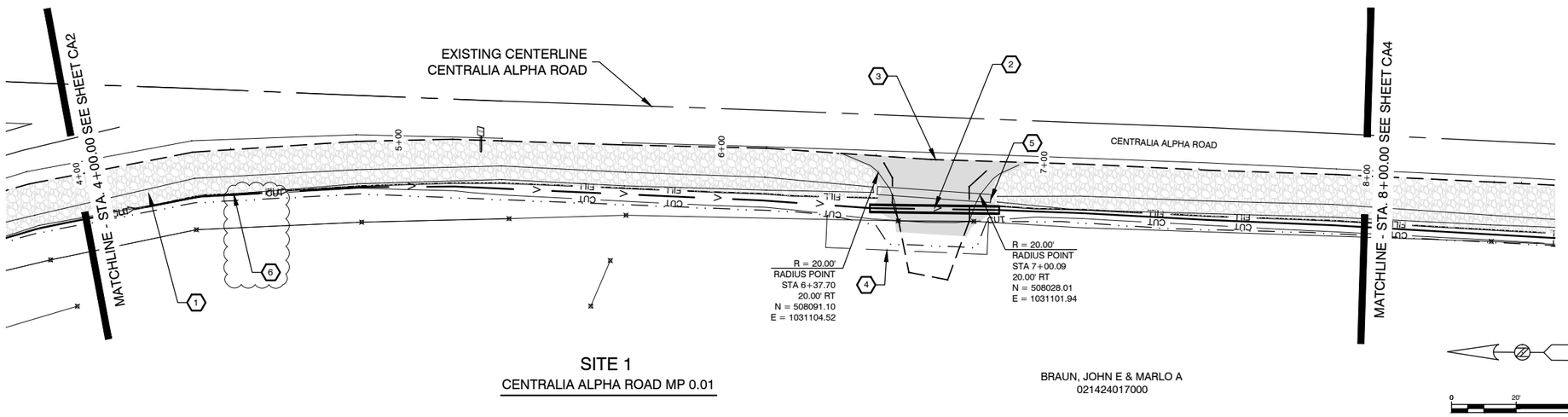
DONALD J CARNEY
STATE OF WASHINGTON
#42753
REGISTERED
PROFESSIONAL ENGINEER
5/13/21

5/11/2021 10:20 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE
CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE
SEWER LINE NOT LOCATED



SITE 1
CENTRALIA ALPHA ROAD MP 0.01

BRAUN, JOHN E & MARLO A
021424017000

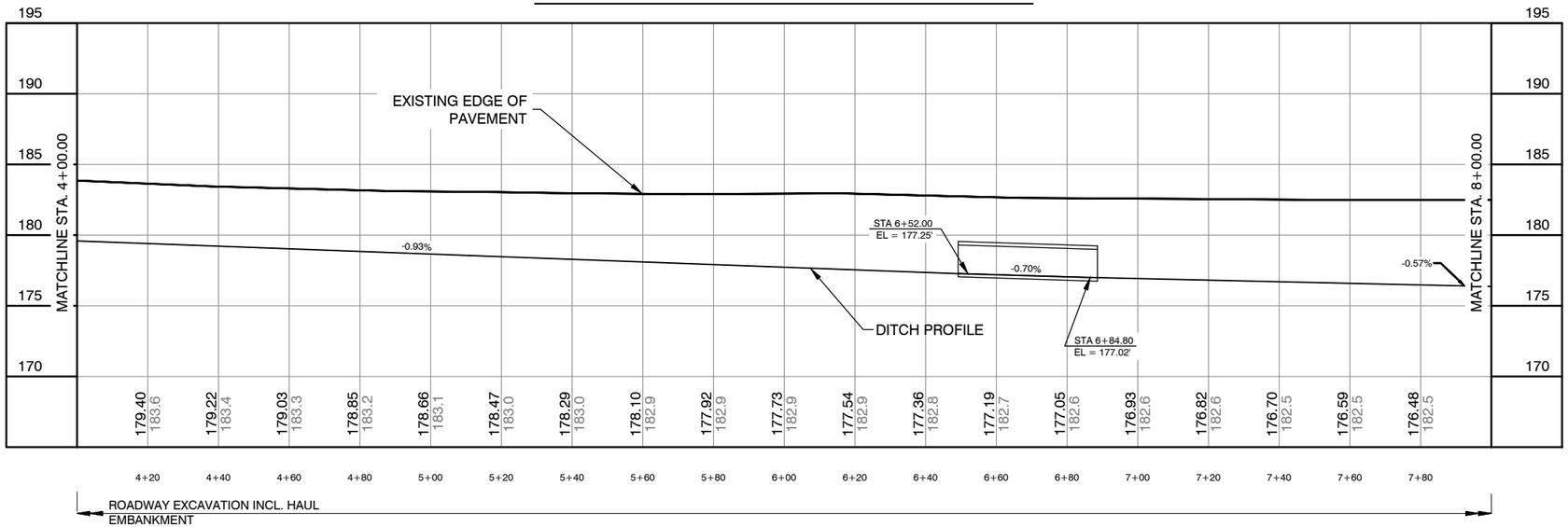
CONSTRUCTION NOTES

1. STA. 3+40.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT
   SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4
2. CONSTRUCT CLASS IV REINF. CONC. CULV. PIPE 24 IN. DIAM., 40 L.F.
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   INLET INVERT E.L. = 177.30 (STA. 6+49.21) 16.36' RIGHT
   OUTLET INVERT E.L. = 176.99 (STA. 6+88.60) 14.99' RIGHT
   30 TON CRUSHED SURFACING BASE COURSE
   1 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
3. STA. 6+68.50 CONSTRUCT APPROACH
   23' RT END OF APPROACH TO MATCH EXISTING GROUND
   TOTAL WIDTH AT END OF APPROACH = 19.54'
   30 TON CRUSHED SURFACING BASE COURSE
4. TEMPORARY CONSTRUCTION EASEMENT
5. REMOVE EXISTING CULVERT
   23 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
   43 TON CRUSHED SURFACING BASE COURSE
6. SEED AND MULCH ALL EXPOSED AREAS
   STA. 3+87.00 TO STA. 10+64.11
   SEEDING AND MULCHING
   0.06 ACRES

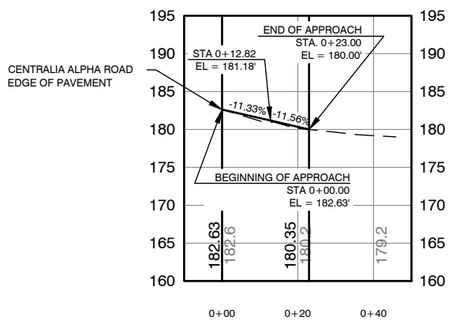
NOTE:
APPROACH SLOPES WILL BE 2:1 LEFT AND RIGHT

0 20' 40'

CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



FIELD APPROACH STA 6+68.50



0 20' 40'
VERTICAL: 1" = 5'
SCALE IS FOR FULL SIZE SHEETS

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
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DESIGNED BY : DJC
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DATE :

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1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS
1	5/11/2021	CHANGED TITLE TO MATCH OTHER SHEETS	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET
CA3
OF
CA10

CALL 48 HOURS BEFORE YOU DIG
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"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

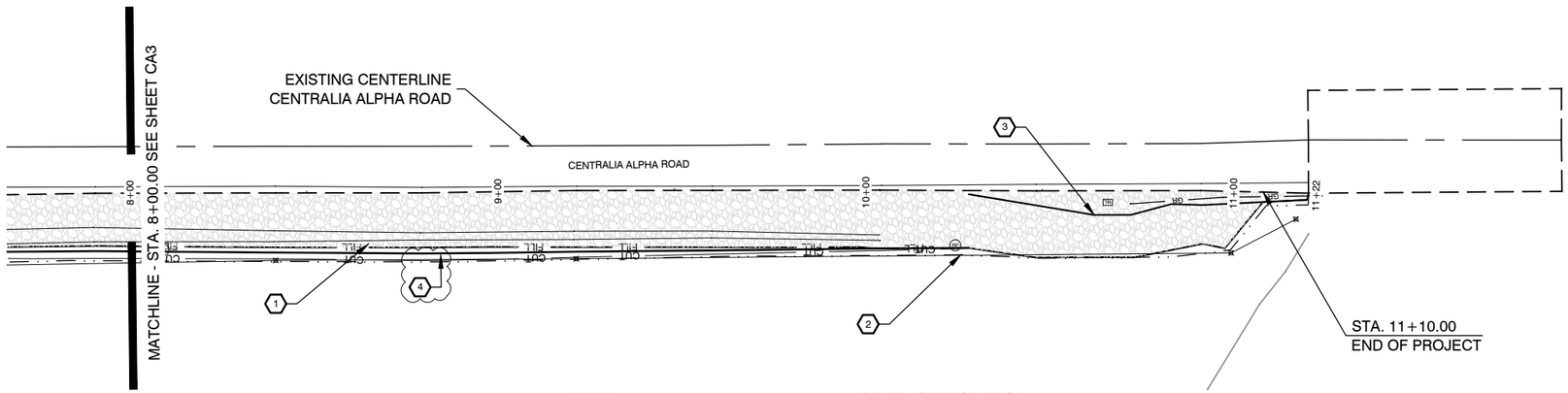
DONALD J CARNEY
STATE OF WASHINGTON
#42753
REGISTERED PROFESSIONAL ENGINEER
5/23/21

5/11/2021 10:21 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE
CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE
SEWER LINE NOT LOCATED



CONSTRUCTION NOTES

1. STA. 3+40.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT
   SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4
2. STA. 10+30.00
   END V-BOTTOM DITCH
3. STA. 10+64.11 TO STA. 11+10.00 CONSTRUCT LANDING FOR EXISTING GUARDRAIL
   SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
4. SEED AND MULCH ALL EXPOSED AREAS
   STA. 3+87.00 TO STA. 10+64.11
   SEEDING AND MULCHING
   0.06 ACRES

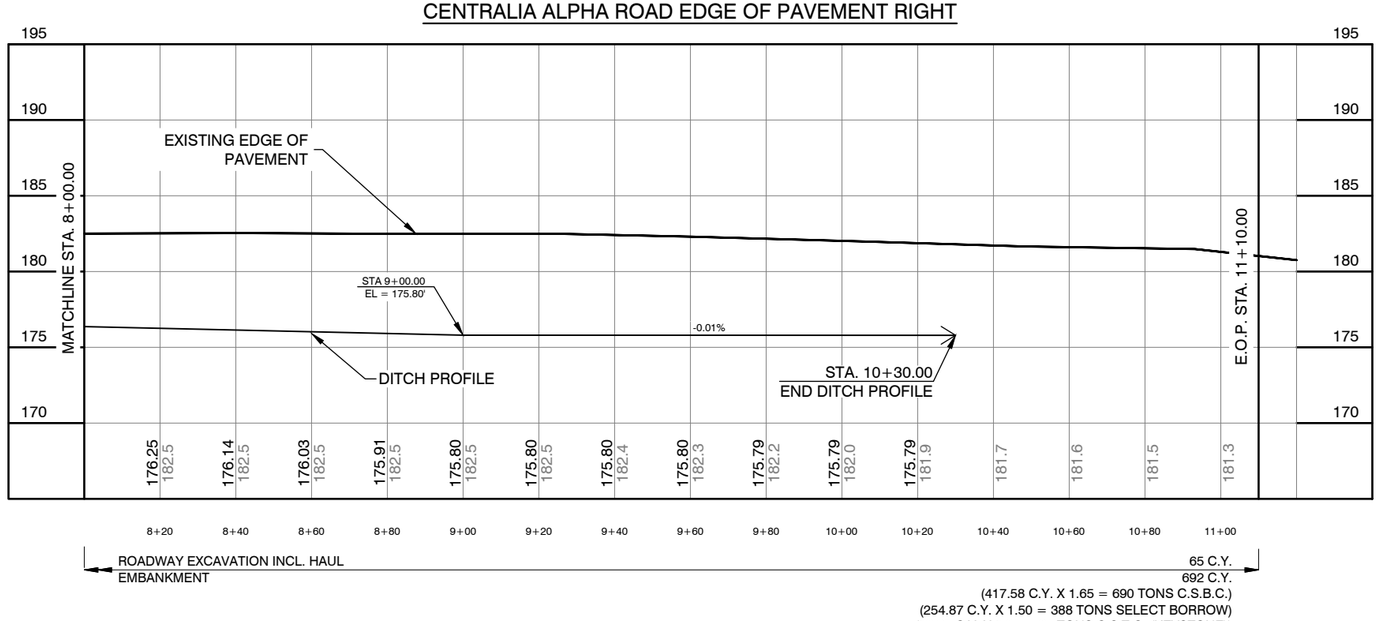
N

0 20' 40'

SITE 1
CENTRALIA ALPHA ROAD MP 0.01

BRAUN, JOHN E & MARLO A
021424017000

CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



ROADWAY EXCAVATION INCL. HAUL 65 C.Y.
EMBANKMENT 692 C.Y.
(417.58 C.Y. X 1.65 = 690 TONS C.S.B.C.)
(254.87 C.Y. X 1.50 = 388 TONS SELECT BORROW)
(19.07 C.Y. X 1.85 = 35 TONS C.S.T.C. (KEYSTONE))

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS
1	5/11/2021	CHANGED TITLE TO MATCH OTHER SHEETS	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET CA4 OF CA10

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 "It's the Law" Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

DONALD J CARNEY STATE OF WASHINGTON #42753 REGISTERED PROFESSIONAL ENGINEER 5/23/21

ROGERS ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		PREPARATION		
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
		GRADING		
6	0300	ROADWAY EXCAVATION	7	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	535	C.Y.
8	0408	SELECT BORROW INCL. HAUL	0	TON
		DRAINAGE		
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	7	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	32	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	8	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
		STORM SEWER		
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
		STRUCTURE		
16	4025	GRAVEL BACKFILL FOR WALL	23	C.Y.
		SURFACING		
17	5100	CRUSHED SURFACING BASE COURSE	805	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	50	TON
		HOT MIX ASPHALT		
19	5875	COMMERCIAL HMA	0	TON
		EROSION CONTROL AND ROADSIDE PLANTING		
20	6479	WATTLE	0	L.F.
		TRAFFIC		
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	0	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
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29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
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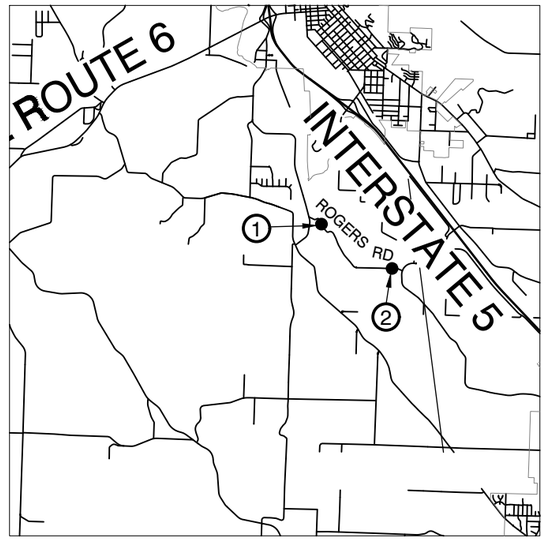
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM
47	6422	SEEDING AND MULCHING	0.25	ACRE



VICINITY MAP

NOT TO SCALE

5/11/2021 10:15 AM

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Lewis County Department of Public Works

2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING BID ITEM	KLP	GRS
1	5/11/2021	CHANGED QUANTITY OF SELECT BORROW FROM 2 TO 0	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B

ROGERS ROAD
SUMMARY OF QUANTITIES

SHEET
RG1
OF
RG6

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

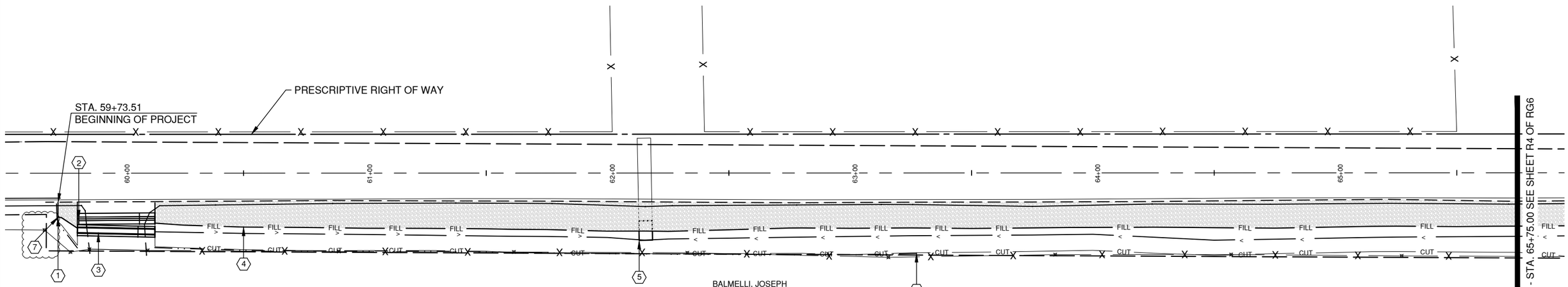
Donald J. Carney, P.E.
Senior Engineer/Design

Date: 2/17/21

DONALD J CARNEY
STATE OF WASHINGTON
#42753
REGISTERED PROFESSIONAL ENGINEER
5/13/21

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE
INCLUDED IN MAINLINE
CLEARING LIMITS AT TOP OF NEW DITCH BACKSLOPE

TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.



BALMELLI, JOSEPH
017919000000

CONSTRUCTION NOTES

1. STA. 59+73.51 TO STA. 59+82.08
   CONSTRUCT EMBANKMENT
   SEE TYPICAL SECTION B-B ON SHEET 3 OF 4
2. REMOVE EXISTING CULVERT
   10 C.Y STRUCTURE EXCAVATION CLASS B INCL. HAUL
   19 TON CRUSHED SURFACING BASE COURSE
3. CONSTRUCT CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM., 32 L.F.
   INLET INVERT EL. = 203.28' (STA. 59+81.50) 23.47' RIGHT
   OUTLET INVERT EL. = 203.12' (STA. 60+13.49) 24.13' RIGHT
   17 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
   32 TON CRUSHED SURFACING BASE COURSE

CONSTRUCTION NOTES

4. STA. 60+13.47 TO STA. 69+40.00
   CONSTRUCT EMBANKMENT
   STEEPEN BACKSLOPE AS NECESSARY TO STAY WITHIN ROW
   SEE TYPICAL SECTION B-B ON SHEET 3 OF 4
   1 C.Y. ROADWAY EXCAVATION
5. EXTEND PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN, 8 L.F.
   TO CONNECT TO EXISTING PIPE
   SEE WSDOT STANDARD PLAN B-60.20
   INLET INVERT EL. = 201.13' (STA. 62+15.80), 27.67' RT (MATCH EXISTING PIPE INVERT)
   OUTLET INVERT EL. = 201.16' (STA. 62+15.65), 19.67' RT
   BEVEL PIPE TO MATCH SLOPE
   2 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
6. WATTLE
   478 L.F. ENTIRE SITE

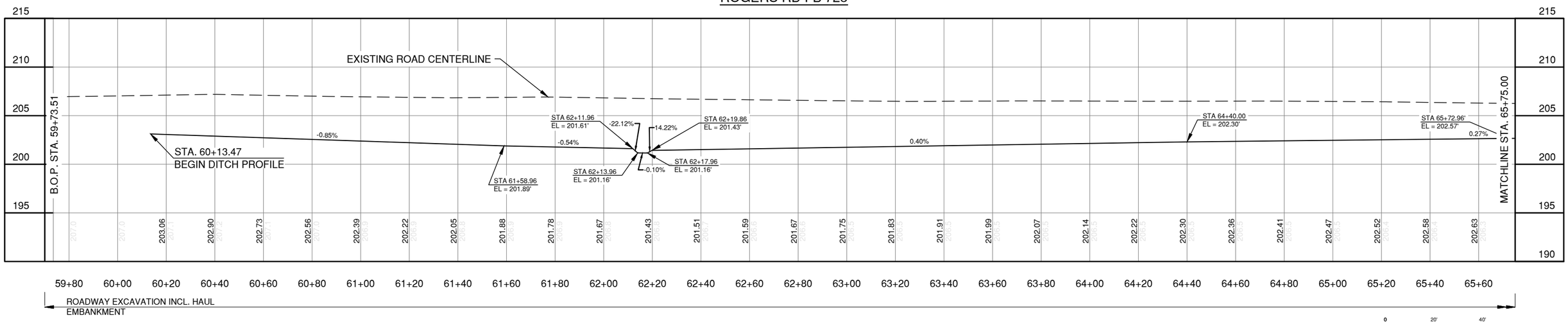
CONSTRUCTION NOTES

7. SEED AND MULCH ALL EXPOSED AREAS
   STA. 59+73.51 TO STA. 59+82.08
   STA. 60+13.47 TO STA. 69+40.00
   SEEDING AND MULCHING
   0.25 ACRES

SITE 2
ROGERS ROAD MP 1.12
NOT TO SCALE

0 5' 10'

ROGERS RD FB 723



0 20' 40'
VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD SITE 2

SHEET
RG3
OF
RG6

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

DONALD J CARNEY
STATE OF WASHINGTON
#42753
REGISTERED PROFESSIONAL ENGINEER
5/23/21

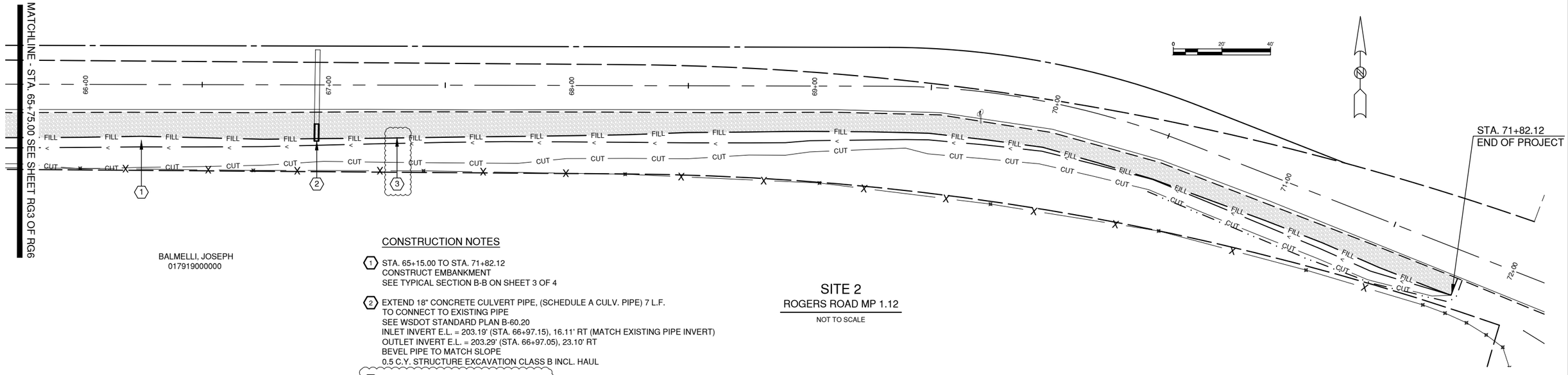
5/11/2021 10:24 AM
S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\ROGERS RD\ROGERS RD SITES 1,2 & 3 WITH TOPO.dwg

5/11/2021 10:24 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\ROGERS RD\ROGERS RD SITES 1,2 & 3 WITH TOPO.dwg

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE
CLEARING LIMITS AT TOP OF NEW DITCH BACKSLOPE

TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.



BALMELLI, JOSEPH
017919000000

CONSTRUCTION NOTES

1. STA. 65+15.00 TO STA. 71+82.12
   CONSTRUCT EMBANKMENT
   SEE TYPICAL SECTION B-B ON SHEET 3 OF 4

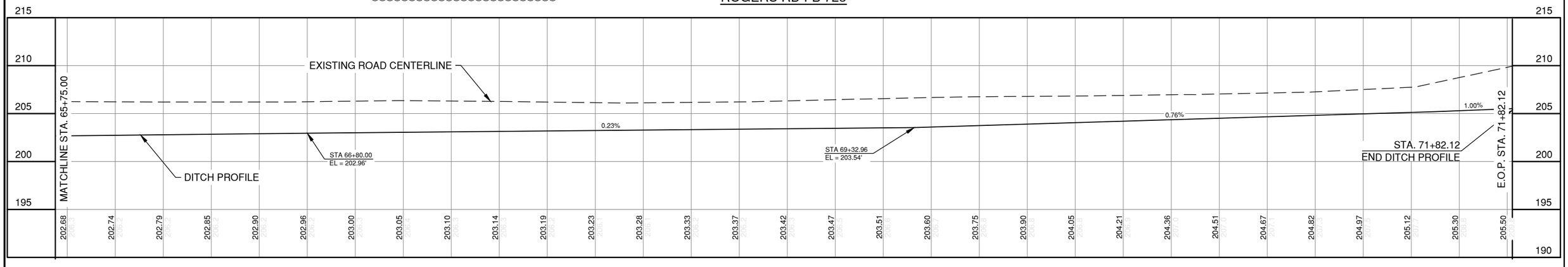
2. EXTEND 18" CONCRETE CULVERT PIPE, (SCHEDULE A CULV. PIPE) 7 L.F.
   TO CONNECT TO EXISTING PIPE
   SEE WSDOT STANDARD PLAN B-60.20
   INLET INVERT E.L. = 203.19' (STA. 66+97.15), 16.11' RT (MATCH EXISTING PIPE INVERT)
   OUTLET INVERT E.L. = 203.29' (STA. 66+97.05), 23.10' RT
   BEVEL PIPE TO MATCH SLOPE
   0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

3. SEED AND MULCH ALL EXPOSED AREAS
   STA. 59+73.51 TO STA. 59+82.08
   STA. 60+13.47 TO STA. 69+40.00
   SEEDING AND MULCHING
   0.25 ACRES

SITE 2
ROGERS ROAD MP 1.12

NOT TO SCALE

ROGERS RD FB 723



ROADWAY EXCAVATION INCL. HAUL
EMBANKMENT

535 C.Y.
624 TON C.S.B.C.
40 TON C.S.T.C. (KEYSTONE)

0
20'
40'
VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS

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PHONE # (360) 740-1123
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DESIGNED BY : DJC
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CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.
1	5/11/2021	ADDED SEEDING AND MULCHING NOTE	KLP	GRS
1	5/11/2021	DELETED SELECT BORROW FROM QUANTITIES	KLP	GRS

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD SITE 2

SHEET
RG4
OF
RG6

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