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ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
@	AT	R	RANGE, RADIUS
Δ	DELTA	ROW	RIGHT OF WAY
Ø	DIAMETER	R/W	ROAD
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	RCP	REINFORCED CONCRETE PIPE
ABBR	ABBREVIATION	RD	ROAD
ABT	ABOUT	REINF	REINFORCING
ABUT	ABUTMENT	REQ'D	REQUIRED
ACP	ASPHALT CONCRETE PAVEMENT	RESP	ROCK FOR EROSION AND SCOUR PROTECTION
ALT	ALTERNATE	ROW	RIGHT OF WAY
AVG	AVERAGE	RT	RIGHT
BH	BORE HOLE	S	SOUTH
BK	BOOK	SDR	STANDARD DIMENSIONAL RATIO
BMP	BEST MANAGEMENT PRACTICES	SE	SOUTHEAST
BOC	BACK OF CURB	SEC	SECTION
BOT	BOTTOM	SHT	SHEET
BRG	BEARING	SIM	SIMILAR
BVCS	POINT OF VERTICAL CURVATURE - STATION	SPA	SPACE, SPACES, SPACING
BVCE	POINT OF VERTICAL CURVATURE - ELEVATION	SPEC	SPECIFICATION
CB	CATCH BASIN	SR	STATE ROUTE
CD	CONTROLLED DENSITY FILL	ST	STRUCTURAL
C.G.	CENTER OF GRAVITY	STA	STATION
CJ	CONSTRUCTION JOINT	STD	STANDARD
CL	CENTER LINE	SW	SOUTHWEST
CLR	CLEARANCE, CLEAR	SYMM	SYMMETRIC
CMP	CORRUGATED METAL PIPE	T	TOWNSHIP, TANGENT
CONC	CONCRETE	TBD	TO BE DETERMINED
CONT	CONTINUOUS	TC	TRAFFIC CONTROL
CPE	CORRUGATED POLYETHYLENE PIPE	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
CRP	COUNTY ROAD PROJECT	THRU	THROUGH
CSBC	CRUSHED SURFACING BASE COURSE	TRANS	TRANSVERSE
CSTC	CRUSHED SURFACING TOP COURSE	TYP	TYPICAL
CTRS	CENTERS	UNO	UNLESS NOTED OTHERWISE
DI	DUCTILE IRON	VC	VERTICAL CURVE
DIA	DIAMETER	VERT	VERTICAL
DIAPH	DIAPHRAGM	W	WEST
DTL	DETAIL	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
E	EAST, EASTING	W	WITH
EA	EACH		
EC	EROSION CONTROL		
EF	EACH FACE		
EG	EXISTING GROUND		
EL	ELEVATION		
ELEV	ELEVATION		
EOP	EDGE OF PAVEMENT		
EQ	EQUAL		
EVCS	POINT OF VERTICAL TANGENCY - STATION		
EVCE	POINT OF VERTICAL TANGENCY - ELEVATION		
EW	EACH WAY		
EX	EXISTING		
EXP	EXPANSION		
EXT	EXTERIOR		
EXIST	EXISTING		
FD	FOUND		
FF	FAR FACE		
FG	FINISH GRADE		
FL	FLOW LINE		
FO	FIBER OPTIC		
FT	FEET, FOOT		
FTG	FOOTING		
GAL	GALLON		
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HMA	HOT MIX ASPHALT		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
I.E.	INVERT ELEVATION		
INT	INTERIOR		
INV	INVERT		
IP	IRON PIPE		
IR	IRON ROD		
JT	JOINT		
L	LENGTH		
LF	LINEAR FEET		
LN	LANE		
LONG	LONGITUDINAL		
LP	LOW POINT		
LT	LEFT		
M.P.	MILE POST		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NORTH, NORTHING		
NE	NORTHEAST		
NF	NEAR FACE		
NTS	NOT TO SCALE		
NW	NORTHWEST		
OC	ON CENTER		
OHW	ORDINARY HIGH WATER		
PAVT	PAVEMENT		
PC	POINT OF HORIZONTAL CURVATURE		
PG	PERFORMANCE GRADE		
PGL	PROFILE GRADE LINE		
PI	POINT OF HORIZONTAL INTERSECTION		
PL	PLATE		
PSI	POUNDS PER SQUARE INCH		
PT	POINT OF HORIZONTAL TANGENCY		
PVC	POLYVINYL CHLORIDE		
PVI	POINT OF VERTICAL INTERSECTION		
QTY	QUANTITY		

PRIOR TO COMMENCEMENT OF ANY WORK BEING PERFORMED ON THE PROJECT, A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON MUST MEASURE AND REFERENCE ALL EXISTING SURVEY MONUMENTS WITHIN OR NEAR THE PROJECT LIMITS. ONCE MEASURED AND REFERENCED, THE LAND SURVEYOR SHALL SUBMIT AN APPLICATION TO REMOVE OR DESTROY A SURVEY MONUMENT TO THE PUBLIC LAND SURVEY OFFICE OF THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES IN ACCORDANCE WITH RCW 58.24.040(8). FOR EACH MONUMENT WITHIN AND ADJACENT TO THE PROJECT LIMITS, REGARDLESS OF THE INTENT TO REMOVE, DESTROY, OR REPLACE SAID MONUMENTS, WORK MAY NOT COMMENCE ON THE PROJECT UNTIL SAID APPLICATIONS ARE APPROVED BY THE APPROPRIATE REPRESENTATIVE OF THE DEPARTMENT OF NATURAL RESOURCES.

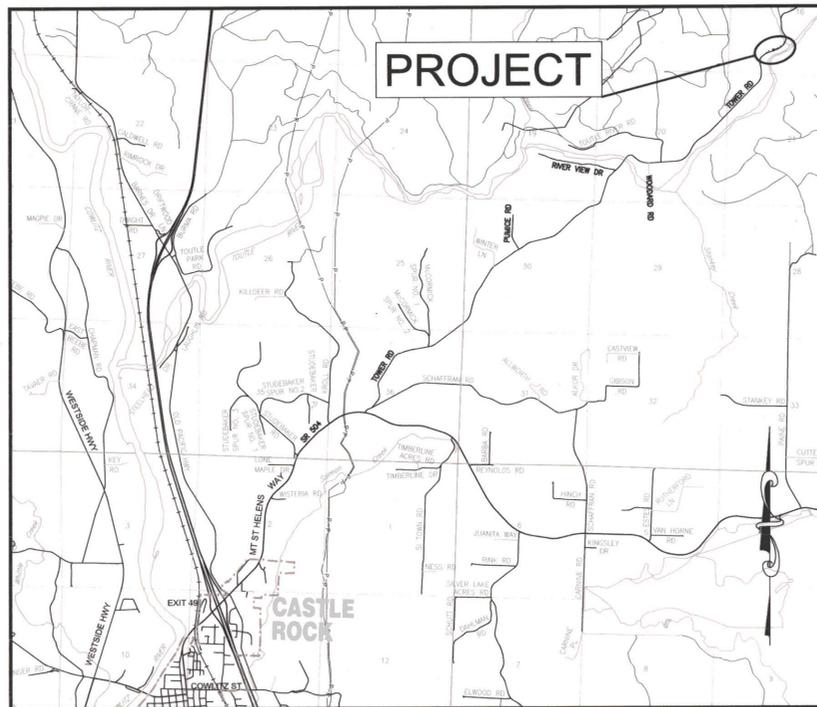
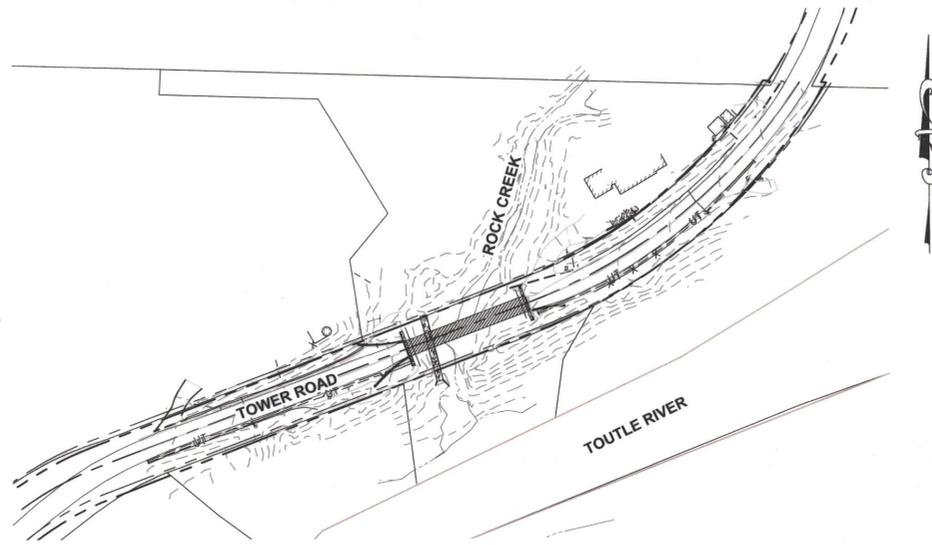
STANDARD DRAWINGS	
WSDOT DRAWING	DESCRIPTION
B-5.20	CATCH BASIN TYPE 1
B-5.40	CATCH BASIN TYPE 1L
B-10.20	CATCH BASIN TYPE 2
B-30.30	RECTANGULAR VANED GRATE
B-30.60	GRATE INLET ON CATCH BASIN - TYPE 2
B-40.40	FRAME AND DUAL VANED GRATE FOR GRATE INLET
C-20.10	BEAM GUARDRAIL TYPE 31
C-22.16	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2
C-23.70	BEAM GUARDRAIL TYPE 31 ANCHOR TYPE 11
C-25.30	BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 24 (POSTED SPEED 45 MPH AND BELOW)
C-80.10	SINGLE SLOPE CAST-IN-PLACE CONCRETE BARRIER
C-80.20	SINGLE SLOPE CAST-IN-PLACE CONCRETE BARRIER TERMINAL
D-3.09	PERMANENT GEOSYNTHETIC WALL
D-3.10	CAST-IN-PLACE PERMANENT GEOSYNTHETIC WALL FASCIA AND FACING
F-10.42	CONCRETE EXTRUDED CURB TYPE 4
G-20.10	GROUND-MOUNTED SIGN PLACEMENT
G-22.10	TIMBER SIGN SUPPORT
I-30.15	SILT FENCE
I-50.20	NON-BIODEGRADABLE CHECK DAM
J-40.10	LOCKING LID STANDARD JUNCTION BOX TYPE 1
L-5.10	BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL

TOWER ROAD BRIDGE AT ROCK CREEK

M.P. 4.52

Section 16, Township 10N, Range 1W

FEBRUARY 2026



VICINITY MAP

INDEX OF DRAWINGS		
NUMBER	SHEET	DESCRIPTION
GENERAL		
1	G01	TITLE SHEET - VICINITY MAP & SHEET INDEX
2	G02	GENERAL NOTES & LEGEND
3	G03	SURVEY CONTROL & ALIGNMENT PLAN
STAGING		
4	ST01	CONSTRUCTION PLAN
DEMOLITION		
5	D01	SITE PREPARATION - SHEET 1
6	D02	SITE PREPARATION - SHEET 2
EROSION CONTROL		
7	ESC01	SITE TESC PLAN - SHEET 1
8	ESC02	SITE TESC PLAN - SHEET 2
9	ESC03	TEMPORARY ACCESS ROAD PLAN & PROFILE
10	ESC04	TEMPORARY EROSION CONTROL AND STREAM DIVERSION
11	ESC05	TEMPORARY STREAM DIVERSION DETAILS
12	ESC06	TESC DETAILS
13	ESC07	RESTORATION SEEDING PLAN
CIVIL		
14	C01	TYPICAL ROAD SECTIONS - SHEET 1
15	C02	TYPICAL ROAD SECTIONS - SHEET 2
16	C03	TYPICAL ROAD SECTIONS - SHEET 3
17	C04	TYPICAL ROAD SECTIONS - SHEET 4
18	C05	ROADWAY PLAN & PROFILE - SHEET 1
19	C06	ROADWAY PLAN & PROFILE - SHEET 2
20	C07	DRIVEWAY PLAN & PROFILE
21	C08	DRAINAGE & UTILITY PLAN - SHEET 1
22	C09	DRAINAGE & UTILITY PLAN - SHEET 2
23	C10	DRAINAGE PROFILES
24	C11	DRAINAGE DETAILS
25	C12	CHANNELIZATION & SIGNING PLAN - SHEET 1
26	C13	CHANNELIZATION & SIGNING PLAN - SHEET 2
27	C14	GRADING PLAN - SHEET 1
28	C15	GRADING PLAN - SHEET 2
29	C16	GRADING DETAILS - SHEET 1
30	C17	GRADING DETAILS - SHEET 2
31	C18	GRADING DETAILS - SHEET 3
TRAFFIC CONTROL		
32	TC01	TRAFFIC CONTROL PLAN

INDEX OF DRAWINGS		
NUMBER	SHEET	DESCRIPTION
STRUCTURAL		
33	S01	BRIDGE PLAN & ELEVATION
34	S02	STRUCTURAL NOTES
35	S03	BRIDGE CONSTRUCTION SEQUENCE - SHEET 1
36	S04	BRIDGE CONSTRUCTION SEQUENCE - SHEET 2
37	S05	BRIDGE FRAMING PLAN
38	S06	TYPICAL BRIDGE CROSS SECTION
39	S07	ABUTMENT 1 ELEVATION & SECTION
40	S08	ABUTMENT 2 ELEVATION & SECTION
41	S09	ABUTMENT 1 AND CURTAIN WALL REINFORCEMENT
42	S10	ABUTMENT 2 AND CURTAIN WALL REINFORCEMENT
43	S11	PLAN - CURTAIN WALLS
44	S12	CURTAIN WALL REINFORCEMENT
45	S13	BEARING DETAILS - SHEET 1
46	S14	BEARING DETAILS - SHEET 2
47	S15	BRIDGE GIRDER DETAILS - SHEET 1
48	S16	BRIDGE GIRDER DETAILS - SHEET 2
49	S17	BRIDGE GIRDER DETAILS - SHEET 3
50	S18	BRIDGE GIRDER DETAILS - SHEET 4
51	S19	BRIDGE GIRDER DETAILS - SHEET 5
52	S20	DIAPHRAGM DETAILS - SHEET 1
53	S21	DIAPHRAGM DETAILS - SHEET 2
54	S22	DIAPHRAGM DETAILS - SHEET 3
55	S23	SLAB REINFORCING PLAN
56	S24	SLAB REINFORCING SECTION AND DETAILS
57	S25	TRAFFIC BARRIER DETAILS - SHEET 1
58	S26	TRAFFIC BARRIER DETAILS - SHEET 2
59	S27	TRAFFIC BARRIER DETAILS - SHEET 3
60	S28	BP RAILING DETAILS - SHEET 1
61	S29	BP RAILING DETAILS - SHEET 2
62	S30	PLAN & PROFILE - WALL 1 & 2
63	S31	PLAN & PROFILE - WALL 3 & 4
64	S32	WALL DETAILS - SHEET 1
65	S33	WALL DETAILS - SHEET 2
ENVIRONMENTAL		
66	EN01	STREAM PLAN AND PROFILE
67	EN02	STREAM GRADING SECTIONS
68	EN03	STREAMBED DETAILS - SHEET 1
69	EN04	STREAMBED DETAILS - SHEET 2
70	EN05	WOOD PLAN

CONTACT INFORMATION

ESA
GREG WOLOVEKE, PE (503) 274 - 2010
HUNTER WHITE, PE

COWLITZ COUNTY
1600 13TH Ave S (360) 577 - 3030
KELSO, WA 98626
ROGER MAURER, PE

WSP
1300 SW 5TH AVE, SUITE 3100 (503) 872 - 4100
PORTLAND, OR 97201
TIM DE BOER, PE



BASIS OF BEARINGS:

NAD83, WASHINGTON STATE PLANE, SOUTH ZONE (SPC 4602 WA S), UTILIZING GROUND DISTANCES, SO STATE PLANE COORDINATES ARE APPROXIMATE (UP TO APPROXIMATELY ±0.3')

VERTICAL DATUM:

ELEVATION DATUM: NAVD88
BENCHMARK: CONTROL POINT #21 AS DETERMINED BY SURVEYOR AS SHOWN ON SHEET G03
LOCATION: 214.59'
ELEVATION:

819 SE Morrison St, Suite 310
Portland, OR 97214
P: (503) 274-2010
F: (503) 274-2024

WSP USA Inc.
1300 SW 5TH Ave,
Suite 3100
Portland, OR 97201
TEL: 503-872-4100

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 01_G01.dwg



DEPARTMENT OF PUBLIC WORKS
1600 13TH AVENUE SOUTH
KELSO, WASHINGTON 98626

APPROVED BY:
Lisa J. Riggins
COUNTY ENGINEER
DATE: February 11, 2026



SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
TITLE SHEET - VICINITY MAP AND SHEET INDEX

BID SET
SHEET **G01**
1 OF 70

GENERAL NOTES

- REFER TO HYDRAULIC PROJECT APPROVAL (HPA) FOR AUTHORIZED IN WATER WORK WINDOW.
- HORIZONTAL DATUM: STATE PLANE COORDINATES, WASHINGTON SOUTH ZONE, NAD83, US SURVEY FEET
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- SITE TOPOGRAPHY BASED ON 2023 SURVEY CONDUCTED BY COWLITZ COUNTY.
- CONTRACTOR IS RESPONSIBLE FOR MEETING ALL PERMIT REQUIREMENTS. ANY FINES INCURRED DUE TO PERMIT VIOLATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND OBSERVING SITE CONDITION IN ALL WORK AREAS PRIOR TO BIDDING.
- ALL QUANTITY ESTIMATES ARE APPROXIMATE.

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS, EXISTING CONDITIONS, AND NOTED ASSUMPTIONS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE RELATED WORK CONCERNING THE NOTED DEVIATION.
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2025, AND AMENDMENTS AT THE TIME OF BID.
- ALL DIMENSIONS TO TAKE PRECEDENCE OVER THE SCALE SHOWN ON THE PLANS, ELEVATIONS, SECTIONS, AND DETAILS.
- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE BRACING, SHORING, AND ALL OTHER NECESSARY METHODS REQUIRED TO COMPLETE CONSTRUCTION.

LINETYPE LEGEND	
LINETYPE	DESCRIPTION
EXISTING	
	DRAINAGE CULVERT
	FENCE
	EDGE OF WATER
	OVERHEAD WIRE
	UNDERGROUND COMMUNICATION
	UNDERGROUND POWER
	BUILDING LINE
	ROAD BARRIER
	MAJOR CONTOUR - SPACED AT 5' INTERVALS
	MINOR CONTOUR - SPACED AT 1' INTERVALS
	EXISTING ROW LINE
	GIS BOUNDARY LINE
	ORDINARY HIGH WATER LINE
	APPROX. LIMITS OF WETLAND
	EXISTING PILES AND ABUTMENT
	EXISTING SHEET PILE WALL
PROPOSED	
	LIMITS OF WORK
	UNDERGROUND COMMUNICATION
	UNDERGROUND POWER
	SAW CUT
	CLEARING AND GRUBBING
	UTILITY TO BE REMOVED/ABANDONED
	OVERHEAD UTILITY TO BE REMOVED BY OTHERS
	REMOVE CHANNELIZATION AS REQUIRED
	HIGH VISIBILITY FENCE
	SILT FENCE
	STRAW WATTLES
	POTENTIAL STAGING AREA
	STORM DRAIN PIPE
	DRAINAGE DITCH
	GUARDRAIL
	GUARDRAIL WITH CURB
	CHAIN LINK FENCE
	RETAINING WALL
	SINGLE SLOPE CONCRETE BARRIER
	ROAD STRIPE
	MAJOR CONTOUR - SPACED AT 5' INTERVALS
	MINOR CONTOUR - SPACED AT 1' INTERVALS
	TEMPORARY STREAM DIVERSION GRAVITY PIPE OR PUMP HOSE
	FISH EXCLUSION NET
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	GEOSYNTHETIC STRAP ZONE
	UNDERDRAIN
	TEMPORARY DRAINAGE PIPE

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
EXISTING	
	SURVEY CONTROL POINT
	FENCE GATE POST
	TEST BORING
	MAIL BOX
	SIGN
	GUY ANCHOR
	POWER TRANSFORMER
	UTILITY POLE
	TELEPHONE PEDESTAL
	CONIFER TREE*
	DECIDUOUS TREE*
PROPOSED	
	CATCH BASIN TYPE 1 & 1L
	GRATE INLET TYPE 2
	POWER POLE WITH LUMINAIRE
	PRESERVE NATURAL VEGETATION
	STABILIZE CONSTRUCTION ENTRANCE
	DUST CONTROL
	CONCRETE HANDLING
	UNDERDRAIN CLEANOUT

* NOTE THAT APPROXIMATE TREE DIAMETERS WERE COLLECTED, BUT NOT SHOWN HEREON DUE TO CLARITY ISSUES. PLEASE REQUEST THIS INFORMATION FROM SURVEYOR IF NECESSARY.

HATCH LEGEND	
HATCH	DESCRIPTION
EXISTING	
	EXISTING ASPHALT SURFACE
	EXISTING CONCRETE SURFACE
	EXISTING GRAVEL SURFACE
PROPOSED	
	STABILIZED CONSTRUCTION ENTRANCE
	FLOW BYPASS INLET PROTECTION
	OUTLET PROTECTION FOR DIVERSION
	ROCK FOR EROSION AND SCOUR PROTECTION
	QUARRY SPALLS

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 01_G02.dwg



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KELSO, WASHINGTON 98626



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SEC 16 T 10 N R 1 W
CRP NO 788

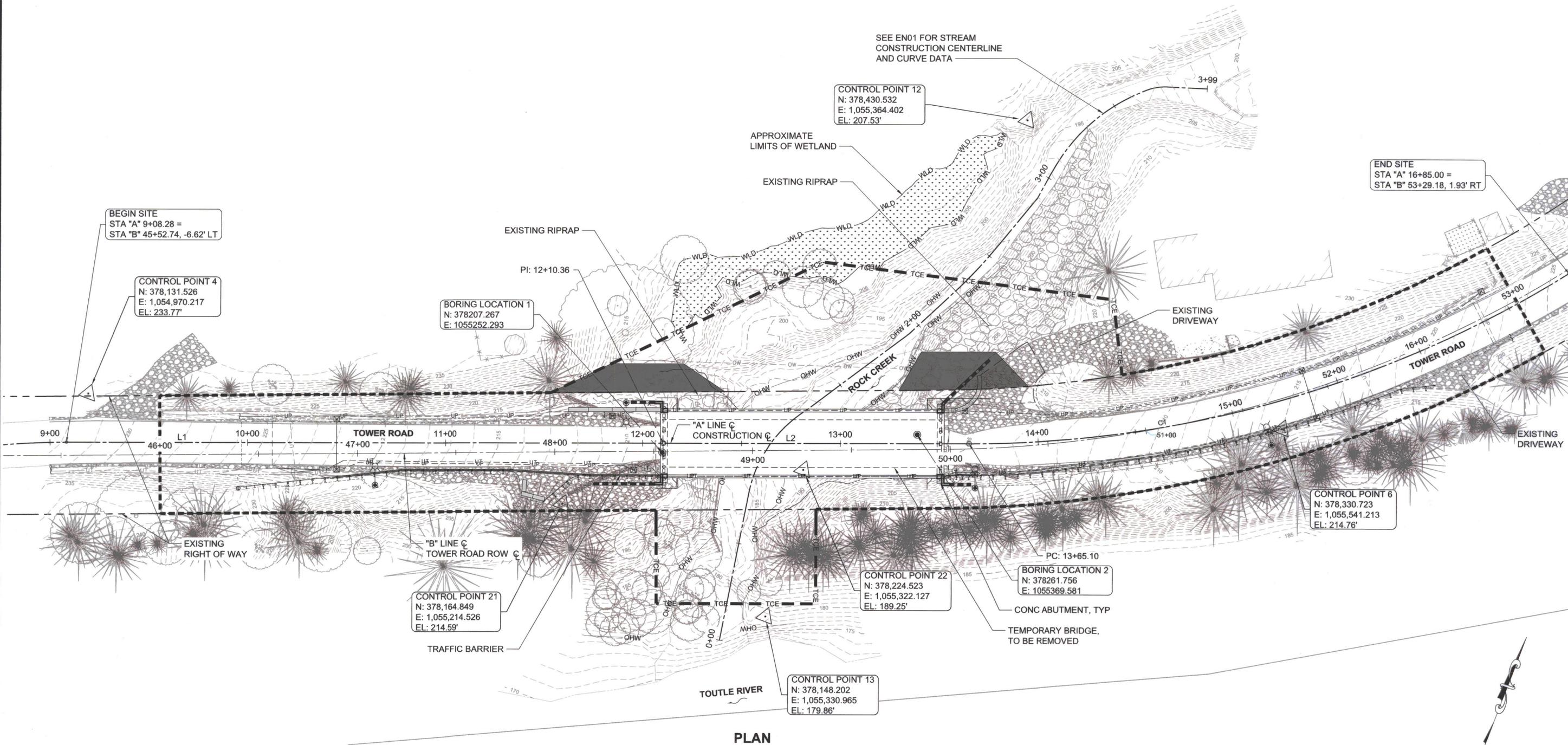
TOWER ROAD BRIDGE
AT ROCK CREEK
GENERAL NOTES & LEGEND

BID SET
SHEET
G02
2 OF 70

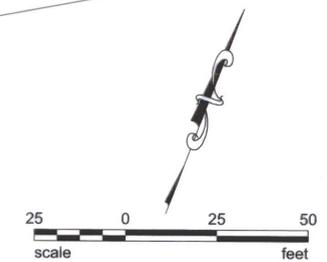
"A" LINE ALIGNMENT							
SEGMENT	BEGIN STATION	POINTS	LINE BEARING	LENGTH	RADIUS	DELTA	TANGENT
L1	9+08.28	START=N:378,104.48, E:1,054,968.75 END=N:378,211.85, E:1,055,251.11	N69° 10' 53"E	302.08	---	---	---
L2	12+10.36	START=N:378,211.85, E:1,055,251.11 END=N:378,266.85, E:1,055,395.75	N69° 10' 53"E	154.75	---	---	---
C1	13+65.10	PI=N:378,347.01, E:1,055,606.58	---	429.55	570.00	43.18	225.55

LEGEND:

- PROJECT WORK LIMITS
- - - - - TCE - - - - - TEMPORARY CONSTRUCTION EASEMENT LIMITS
- █ RIGHT-OF-WAY ACQUISITION



PLAN



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TDB PROJECT MANAGER	2/4/26	DATE
JGH DRAWN BY	2/4/26	DATE
SCB CHECKED BY	2/4/26	DATE

HORIZ. SCALE: 1" = 25'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 01_G03.dwg



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SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
SURVEY CONTROL & ALIGNMENT PLAN

BID SET
 SHEET **G03**
 3 OF 70

CONSTRUCTION PLAN NOTES

1. WORK ELEMENT AREAS SHOW FOOTPRINTS OF PERMANENT WORK ITEMS. ADDITIONAL AREA MAY BE REQUIRED FOR TEMPORARY CONSTRUCTION ELEMENTS AND STAGING OF EQUIPMENT AND MATERIALS, AS DETERMINED BY THE CONTRACTOR.
2. FINAL CONSTRUCTION STAGING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER.
3. MAINTAIN DRIVABLE LOCAL ACCESS TO DRIVEWAYS WITHIN WORK ZONES. SEE SPECIAL PROVISIONS.
4. SEE TRAFFIC CONTROL PLANS ON SHEET TC01.
5. COORDINATE PLACEMENT OF TRAFFIC CONTROL WITH COWLITZ COUNTY AS THEY WILL BE PLACING TRAFFIC CONTROL ALONG THE MAIN ROAD DETOUR.
6. COORDINATE INSTALLATION OF THE ILLUMINATION SYSTEM WITH COWLITZ COUNTY AND PUD PRIOR TO BEGINNING CONSTRUCTION.

CONSTRUCTION ELEMENT DEFINITION

BEFORE IN-WATER WINDOW (PRIOR TO JULY 1, YEAR 1)

DURING IN-WATER WORK WINDOW (JULY 1 - SEPTEMBER 30, YEAR 1)

AFTER IN-WATER WINDOW (AFTER SEPTEMBER 30 - JULY 1, YEARS 1-2)

WORK ELEMENTS: BEFORE OR DURING IN-WATER WINDOW

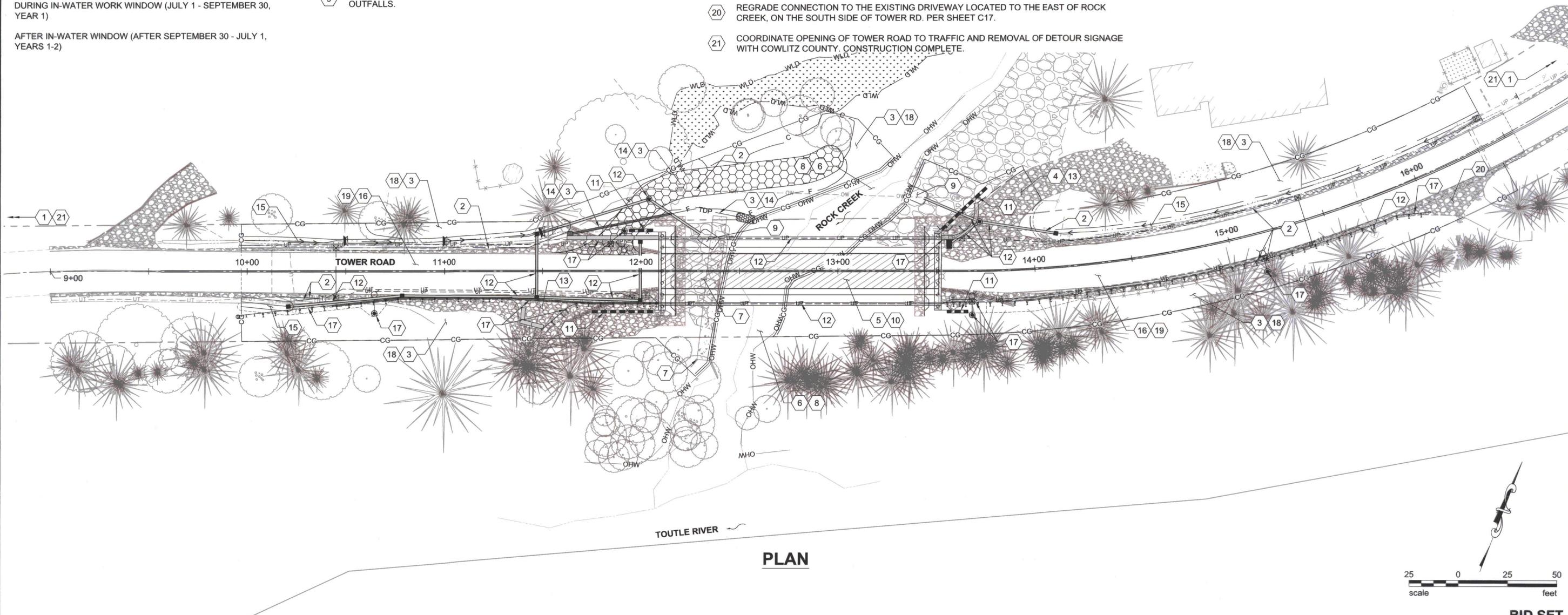
1. COORDINATE DEPLOYMENT OF DETOUR ROUTE SIGNAGE WITH COWLITZ COUNTY PER APPROVED DETOUR PLAN. CLOSE TOWER ROAD TO TRAFFIC.
2. RELOCATE UTILITY INFRASTRUCTURE BY OTHERS.
3. CLEAR AND GRUB PROJECT AREA. CONSTRUCT TEMPORARY ACCESS ROAD AND TEMPORARY STORM CONVEYANCE TO THE WEST OF ROCK CREEK PER SHEET ESC03.
4. MAINTAIN EXISTING DRIVEWAY ACCESS LOCATED TO THE EAST OF ROCK CREEK.
5. REMOVE TEMPORARY BRIDGE OVER ROCK CREEK.

WORK ELEMENTS: DURING IN-WATER WORK WINDOW

6. DIVERT EXISTING STREAM PER ESC PLANS & DETAILS.
7. REMOVE EXISTING CONCRETE CULVERT AND RECONSTRUCT SLOPE PER SHEETS EN01-EN04.
8. CONSTRUCT STREAM IMPROVEMENTS PER EN PLANS & DETAILS.
9. CONSTRUCT ENERGY DISSIPATION PAD FOR STORM CONVEYANCE OUTFALLS.

WORK ELEMENTS: DURING OR AFTER IN-WATER WORK WINDOW

10. CONSTRUCT THE NEW TOWER ROAD BRIDGE AS SHOWN IN THE STRUCTURAL PLANS.
11. CONSTRUCT ALL FOUR APPROACH WALLS.
12. INSTALL NEW STORM SEWER STRUCTURES AND LINES IN THE EAST AND WEST APPROACHES. INSTALL UTILITY LINES IN THE APPROACHES AND ACROSS THE NEW BRIDGE STRUCTURE BY OTHERS.
13. RECONSTRUCT THE EXISTING DRIVEWAY LOCATED TO THE EAST OF ROCK CREEK. CONSTRUCT THE FIELD ACCESS TO THE FARLEY PARCEL. SEE SHEET C18 FOR GRADING DETAILS.
14. REMOVE TEMPORARY STORM CONVEYANCE AND ACCESS ROAD TO THE WEST OF ROCK CREEK AFTER STREAM CHANNEL WORK IS COMPLETE.
15. CONSTRUCT ROADSIDE DITCHES.
16. CONSTRUCT ROADWAY SECTIONS TO FIRST HMA LIFT.
17. ILLUMINATION SYSTEM TO BE INSTALLED BY OTHERS. CONSTRUCT CURB, CONCRETE BARRIER, FENCE AND GUARDRAIL ON THE EAST AND WEST APPROACH ROADWAYS.
18. PROVIDE ENVIRONMENTAL MITIGATION PLANTINGS AND SEEDING AS REQUIRED BY ENVIRONMENTAL PERMITTING. SEE SPECIAL PROVISIONS.
19. PLACE FINAL LIFT OF HMA PAVING AND TIE INS TO EXISTING GRADES ON THE EAST AND WEST ENDS OF THE PROJECT. PLACE FINAL CHANNELIZATION AND SIGNAGE PER SHEETS C12 AND C13.
20. REGRADE CONNECTION TO THE EXISTING DRIVEWAY LOCATED TO THE EAST OF ROCK CREEK, ON THE SOUTH SIDE OF TOWER RD. PER SHEET C17.
21. COORDINATE OPENING OF TOWER ROAD TO TRAFFIC AND REMOVAL OF DETOUR SIGNAGE WITH COWLITZ COUNTY. CONSTRUCTION COMPLETE.



PLAN

TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: AS SHOWN
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 02_ST01.dwg



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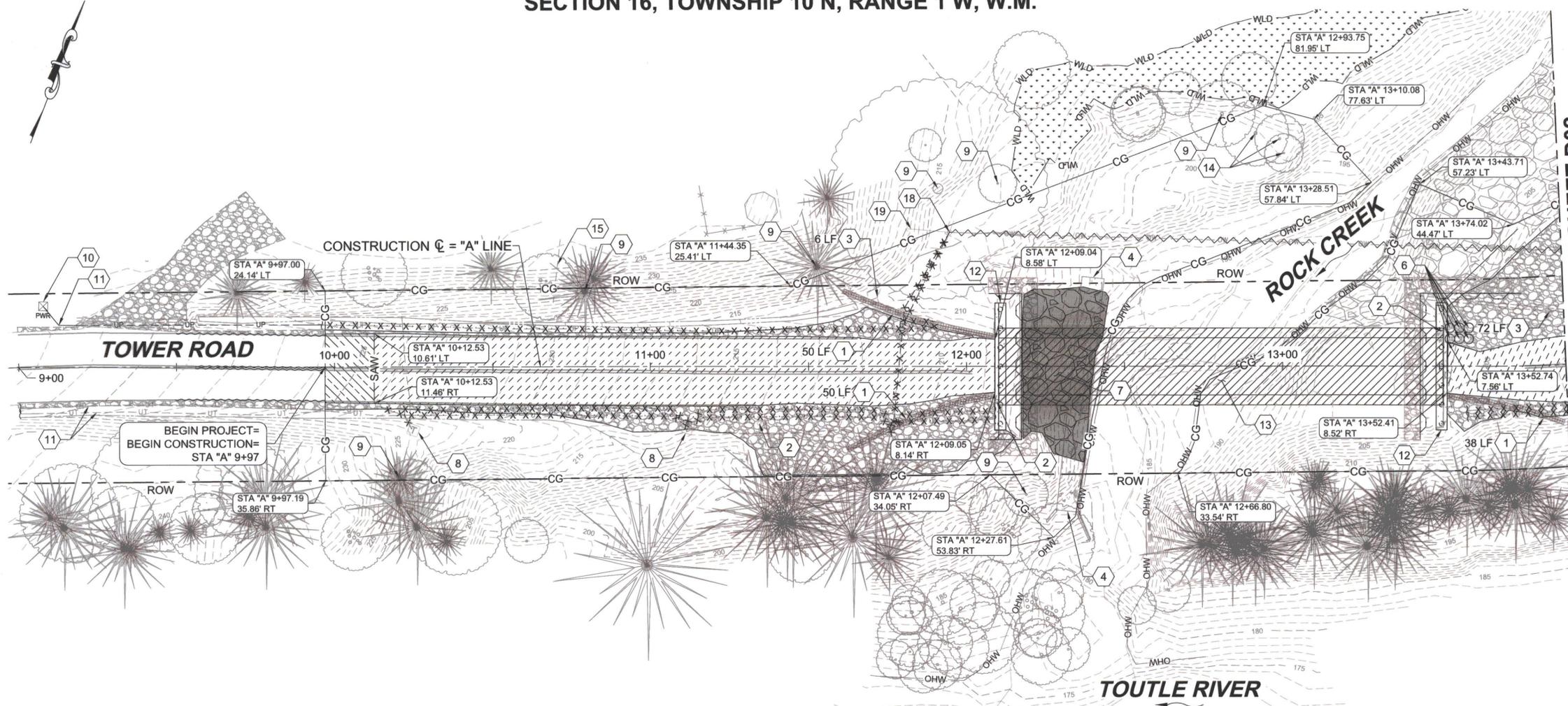
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
CONSTRUCTION PLAN

BID SET
SHEET **ST01**
4 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.

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MATCH LINE STA "A" 13+90 SEE SHEET D02

GENERAL NOTES

1. PHASE DEMOLITION IN ACCORDANCE WITH CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN.
2. CLEAR AND GRUB TO THE CLEARING LIMITS. CLEARING LIMITS WILL BE 2 FEET BEYOND THE PROPOSED CUT AND FILL LINES. WHERE NO CUT AND FILL LINES ARE PRESENT THE CLEARING LIMITS WILL BE TO THE EDGE OF RIGHT-OF-WAY, IF REQUIRED. CONTRACTOR SHALL MAINTAIN NATURAL VEGETATION EXISTING ON SITE TO THE EXTENT PRACTICABLE. SEE TESC SHEETS.
3. SEE SHEETS C08 & C09 FOR ADDITIONAL UTILITY REMOVAL INFORMATION.
4. PROTECT ALL EXISTING UTILITIES/STRUCTURES THAT WILL REMAIN WITHIN WORK LIMITS.
5. MAINTAIN ALL DRIVABLE AND WALKABLE SURFACES.
6. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

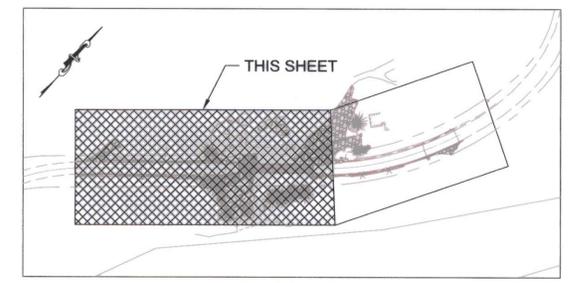
PLAN

LEGEND:

- REMOVE ASPHALT CONCRETE PAVEMENT
- PLANING ASPHALT CONCRETE PAVEMENT
- REMOVE TEMPORARY BRIDGE
- REMOVE AND REPLACE QUARRY SPALLS
- SAWCUT
- CLEARING AND GRUBBING
- UTILITY TO BE REMOVED/ABANDONED
- OVERHEAD UTILITY TO BE REMOVED BY OTHERS
- REMOVE CHANNELIZATION AS REQUIRED
- WETLAND AREA

CONSTRUCTION NOTES

- REMOVE CONCRETE BARRIER
- REMOVE AND SALVAGE SIGN
- REMOVE DRAINAGE PIPE
- REMOVE EXISTING CONCRETE CULVERT AND ASSOCIATED HEADWALL, PER 'EN' SHEETS
- REMOVE AND SALVAGE SAND BARREL
- REMOVE AND REPLACE ROCK FOR EROSION AND SCOUR PROTECTION CLASS B. SEE 'EN' SHEETS
- FRANCHISE UTILITY TO BE RELOCATED/ADJUSTED/REMOVED BY OTHERS
- PROTECT TREE
- PROTECT UTILITY STRUCTURE
- PROTECT UNDERGROUND UTILITY LINE
- PROTECT ABUTMENT
- REMOVE TEMPORARY BRIDGE
- REMOVE AND SALVAGE TREE
- PROTECT DRAINAGE PIPE
- UTILITY POLE TO BE RELOCATED BY OTHERS
- GUY ANCHOR TO BE RELOCATED BY OTHERS



KEYPLAN



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TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 03_D01.dwg



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 KELSO, WASHINGTON 98626



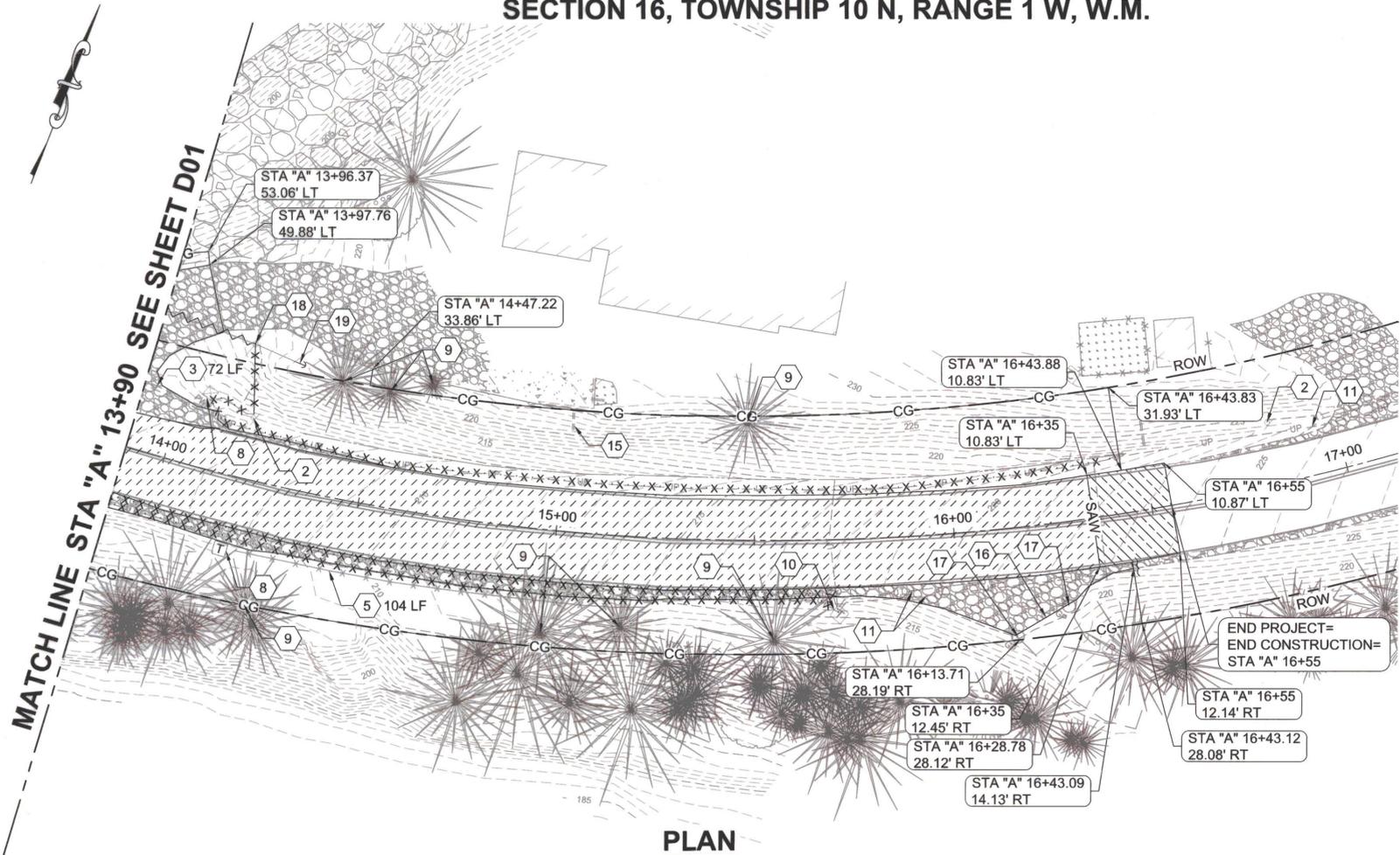
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 Suite 3100
 Portland, OR 97201
 TEL: 503-872-4100
 FAX: 503-872-4101



**SEC 16 T 10 N R 1 W
 CRP NO 788**

TOWER ROAD BRIDGE AT ROCK CREEK	
SITE PREPARATION - SHEET 1	
BID SET	SHEET D01
5 OF 70	

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



GENERAL NOTES

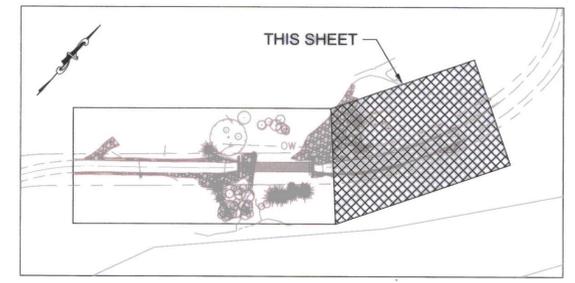
1. PHASE DEMOLITION IN ACCORDANCE WITH CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN.
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3. SEE SHEETS C08 & C09 FOR ADDITIONAL UTILITY REMOVAL INFORMATION.
4. PROTECT ALL EXISTING UTILITIES/STRUCTURES THAT WILL REMAIN WITHIN WORK LIMITS.
5. MAINTAIN ALL DRIVABLE AND WALKABLE SURFACES.
6. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

LEGEND:

- REMOVE ASPHALT CONCRETE PAVEMENT
- PLANING ASPHALT CONCRETE PAVEMENT
- SAW SAWCUT
- CG CLEARING AND GRUBBING
- UTILITY TO BE REMOVED/ABANDONED
- OVERHEAD UTILITY TO BE REMOVED BY OTHERS

CONSTRUCTION NOTES

- REMOVE AND SALVAGE SIGN
- REMOVE DRAINAGE PIPE
- REMOVE WOOD FENCE
- FRANCHISE UTILITY TO BE RELOCATED/ADJUSTED/REMOVED BY OTHERS
- PROTECT TREE
- PROTECT UTILITY STRUCTURE
- PROTECT UNDERGROUND UTILITY LINE
- PROTECT DRAINAGE PIPE
- PROTECT GATE
- PROTECT GATE POST
- UTILITY POLE TO BE RELOCATED BY OTHERS
- GUY ANCHOR TO BE RELOCATED BY OTHERS



KEYPLAN



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TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 03_D02.dwg



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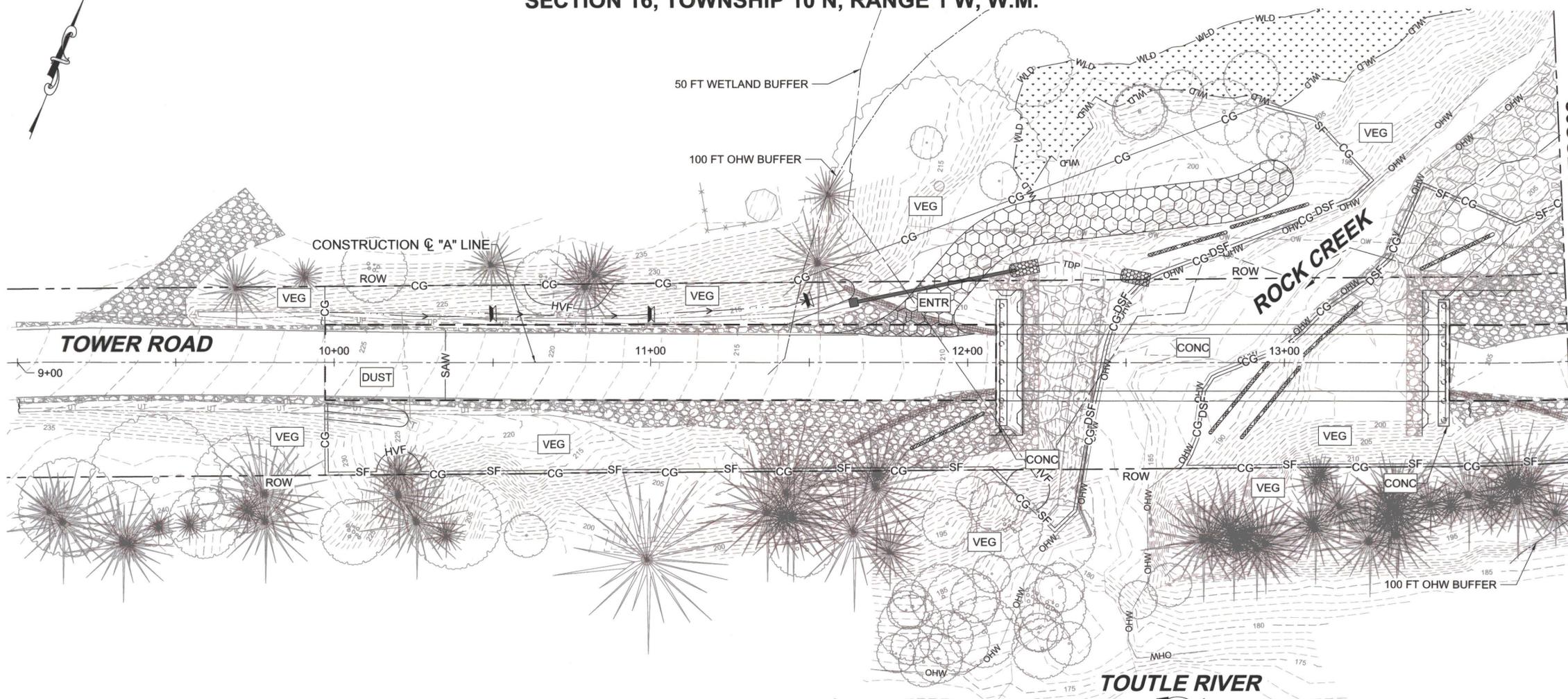
SEC 16 T 10 N R 1 W
 CRP NO 788

**TOWER ROAD BRIDGE
 AT ROCK CREEK**

SITE PREPARATION - SHEET 2

BID SET
 SHEET **D02**
 6 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

MATCH LINE STA "A" 13+90 SEE SHEET ESC02

TEMPORARY EROSION CONTROL NOTES

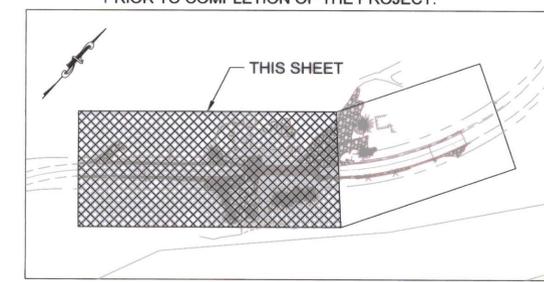
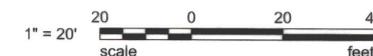
1. ALL BMP NUMBERS CORRESPOND TO THE DEPARTMENT OF ECOLOGY 2024 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND SHALL BE INSTALLED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH SAID MANUAL.
2. SILT FENCE SHALL BE PLACED 1 FOOT INSIDE THE CLEARING AND GRUBBING LIMITS, UNLESS SHOWN OTHERWISE.
3. STOCKPILE LOCATIONS SHALL BE AS DETERMINED BY THE CONTRACTOR AND APPROVED BY COWLITZ COUNTY.
4. CONTRACTOR SHALL MAINTAIN BMP C150 EROSION PREVENTION AND SEDIMENT CONTROL MATERIALS ON HAND ON-SITE IN AN AREA EASILY ACCESSIBLE.
5. SAMPLING LOCATIONS TO BE FIELD LOCATED BY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD.
6. CONTRACTOR TO PLACE WATTLES ALONG EMBANKMENT AS NEEDED.
7. CLEAR AND GRUB TO THE CLEARING LIMITS. CLEARING LIMITS WILL BE 2 FEET BEYOND THE PROPOSED CUT AND FILL LINES. WHERE NO CUT AND FILL LINES ARE PRESENT THE CLEARING LIMITS WILL BE TO THE EDGE OF RIGHT-OF-WAY.
8. PIPE SIZE USED TO EXTEND EXISTING OR PROPOSED STORM DRAIN PIPE SHALL BE THE SAME SIZE OR LARGER TO THE TEMPORARY DISCHARGE LOCATION. TEMPORARY PIPE SHALL BE CPE.
9. CONTRACTOR SHALL FLAG OHW LINE PRIOR TO CLEARING AND GRUBBING AND TO ENSURE TESC BMP'S INCLUDING OUTFALL PROTECTION(S) REMAIN OUTSIDE THE OHW BOUNDARY.
10. ENTIRE STAGING AREA(S) WITHIN UNPAVED SURFACES SHALL BE STABILIZED.
11. TESC BMPS TO BE FIELD LOCATED BY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD.
12. SEE SHEETS ESC04 THROUGH ESC07 FOR STREAM TEMPORARY EROSION AND SEDIMENT CONTROL PLANS.

PERMANENT EROSION CONTROL NOTES

1. TOPSOIL TYPE A SHALL BE PLACED TO A MIN. DEPTH 4 INCHES. SEE RESTORATION SEEDING PLAN ON SHEET ESC07.
2. IMPACTS WITHIN THE WETLAND AND OHW BUFFERS WILL BE RESTORED TO ORIGINAL CONDITION AND SEEDED WITH A GRASS MIXTURE OF CALIFORNIA BROME, BLUE WILDRYE, AND MEADOW BARLEY.
3. CONTRACTOR SHALL IMPLEMENT BMP C130: SURFACE ROUGHENING, BMP C125: TOP SOILING, AND BMP C123: PLASTIC COVERING, AS REQUIRED TO PREPARE EXPOSED SURFACE FOR FINAL SEEDING AS DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL HYDROSEED ALL DISTURBED AREAS PRIOR TO COMPLETION OF THE PROJECT.

LEGEND:

CG	CLEARING AND GRUBBING LIMITS
VEG	BMP C101: PRESERVE NATURAL VEGETATION
HVF	HIGH VISIBILITY FENCE
ENTR	BMP C105: STABILIZE CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02
DUST	BMP C140: DUST CONTROL
CONC	BMP C151: CONCRETE HANDLING
SAW	BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION
TSD	BMP C208: TRIANGULAR SILT DIKE (BIODEGRADABLE CHECK DAM) PER WSDOT STD. PLAN I-50.20-02
SF	BMP C233: SILT FENCE PER WSDOT STANDARD PLAN I-30.15-02
DSF	BMP C235: WATTLES
DSF	DOUBLE SILT FENCE
---	POTENTIAL STAGING AREA
TDP	TEMPORARY DRAINAGE PIPE
---	CONSTRUCTION STORMWATER ENERGY DISSIPATION PAD PER DETAIL B ON SHEET C11
WLD	WETLAND AREA



KEYPLAN

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TDB	2/4/26
PROJECT MANAGER	DATE
KLB	2/4/26
DRAWN BY	DATE
JDM	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 04_ESC01.dwg



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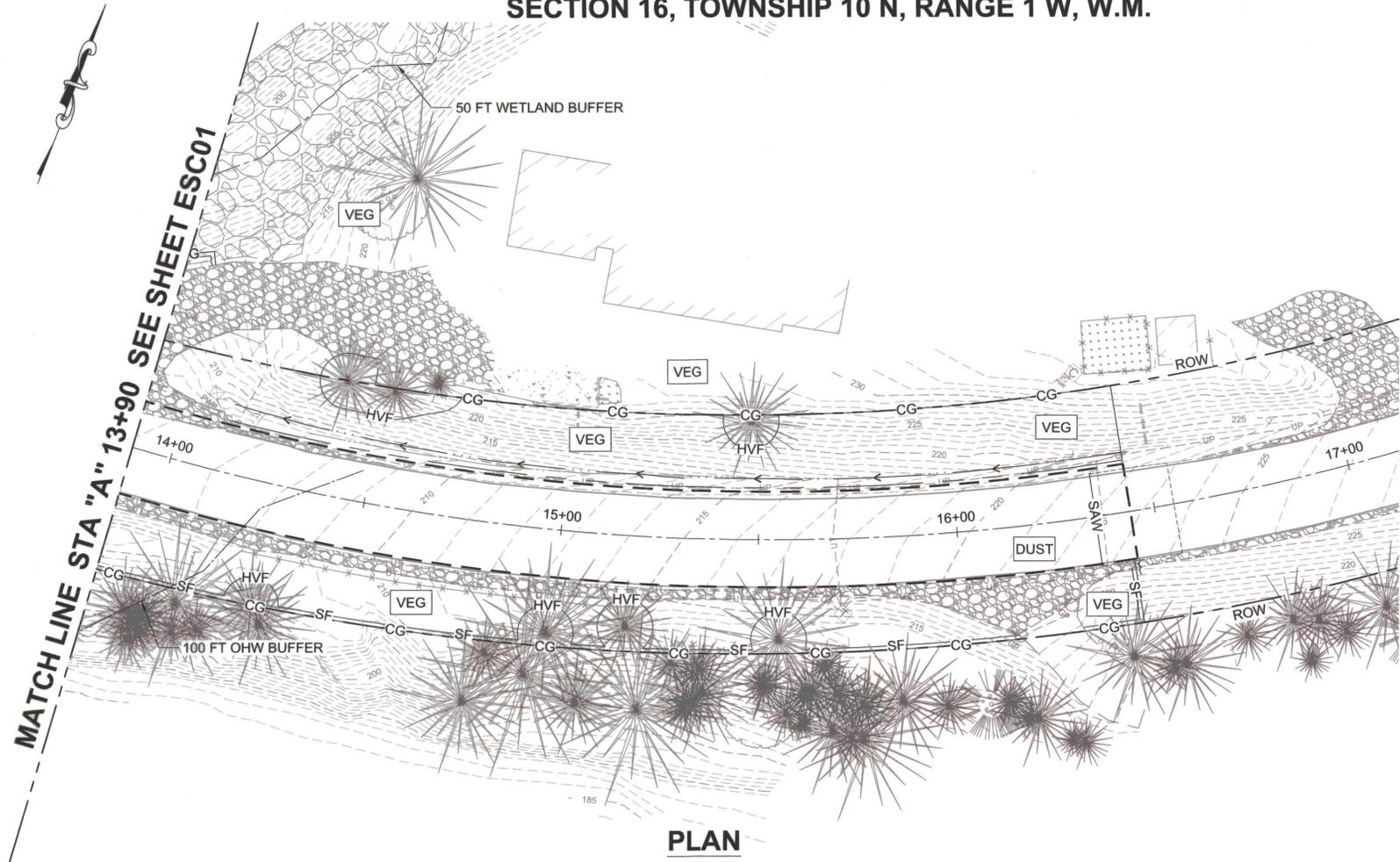


SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE
AT ROCK CREEK
SITE TESC PLAN - SHEET 1

BID SET
SHEET
ESC01
7 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

LEGEND:

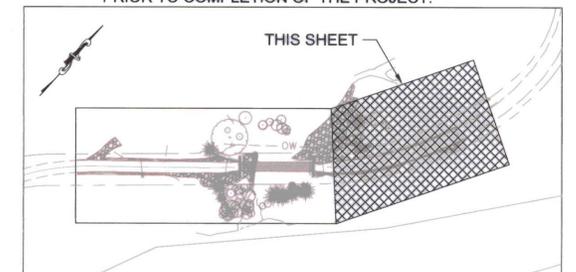
- CG CLEARING AND GRUBBING LIMITS
- VEG BMP C101: PRESERVE NATURAL VEGETATION
- HVF HIGH VISIBILITY FENCE
- DUST BMP C140: DUST CONTROL
- SAW BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION
- TSD BMP C208: TRIANGULAR SILT DIKE (BIODEGRADABLE CHECK DAM) PER WSDOT STD. PLAN I-50.20-02
- SF BMP C233: SILT FENCE PER WSDOT STANDARD PLAN I-30.15-02
- - - POTENTIAL STAGING AREA

TEMPORARY EROSION CONTROL NOTES

1. ALL BMP NUMBERS CORRESPOND TO THE DEPARTMENT OF ECOLOGY 2024 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND SHALL BE INSTALLED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH SAID MANUAL.
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10. ENTIRE STAGING AREA(S) WITHIN UNPAVED SURFACES SHALL BE STABILIZED.
11. TESC BMP'S TO BE FIELD LOCATED BY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD.
12. SEE SHEETS ESC04 THROUGH ESC07 FOR STREAM TEMPORARY EROSION AND SEDIMENT CONTROL PLANS.

PERMANENT EROSION CONTROL NOTES

1. TOPSOIL TYPE A SHALL BE PLACED TO A MIN. DEPTH 4 INCHES. SEE RESTORATION SEEDING PLAN ON SHEET ESC07.
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3. CONTRACTOR SHALL IMPLEMENT BMP C130: SURFACE ROUGHENING, BMP C125: TOP SOILING, AND BMP C123: PLASTIC COVERING, AS REQUIRED TO PREPARE EXPOSED SURFACE FOR FINAL SEEDING AS DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL HYDROSEED ALL DISTURBED AREAS PRIOR TO COMPLETION OF THE PROJECT.



KEYPLAN



TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 04_ESC02.dwg



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 1600 13TH AVENUE SOUTH
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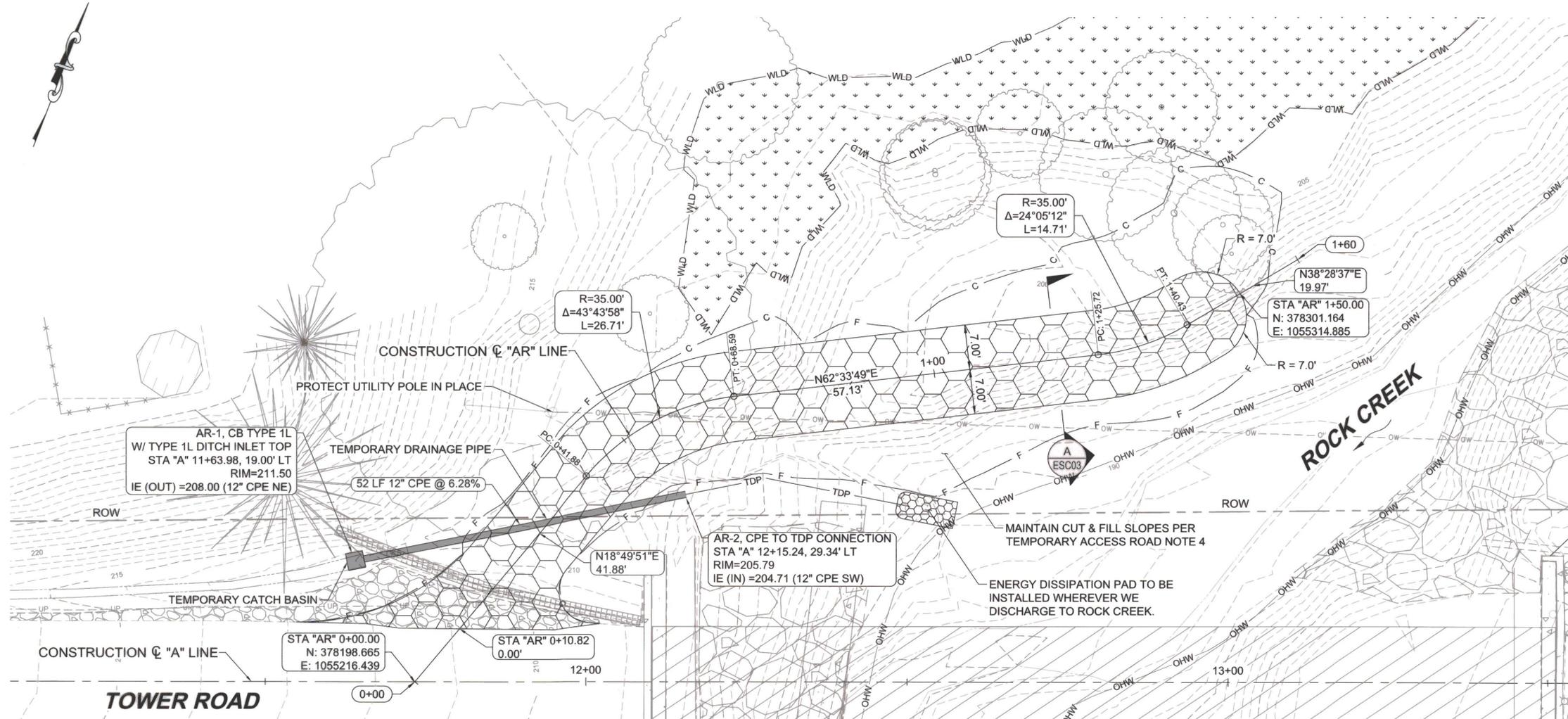
SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE
 AT ROCK CREEK
 SITE TESC PLAN - SHEET 2

BID SET

SHEET
ESC02

8 OF 70

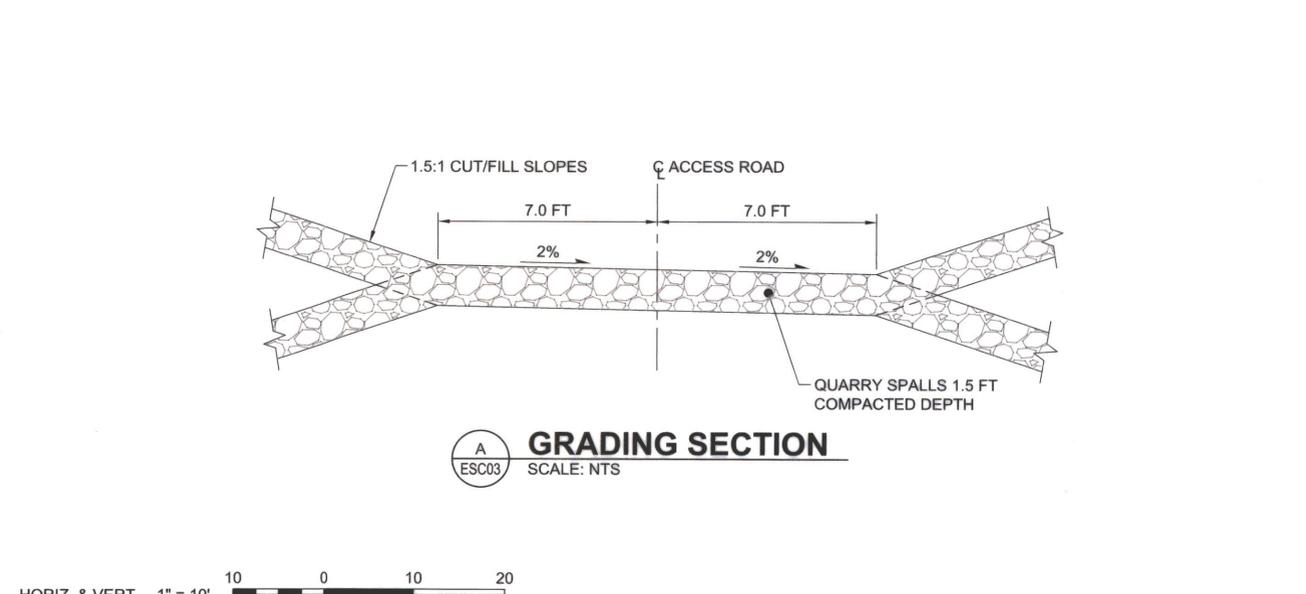
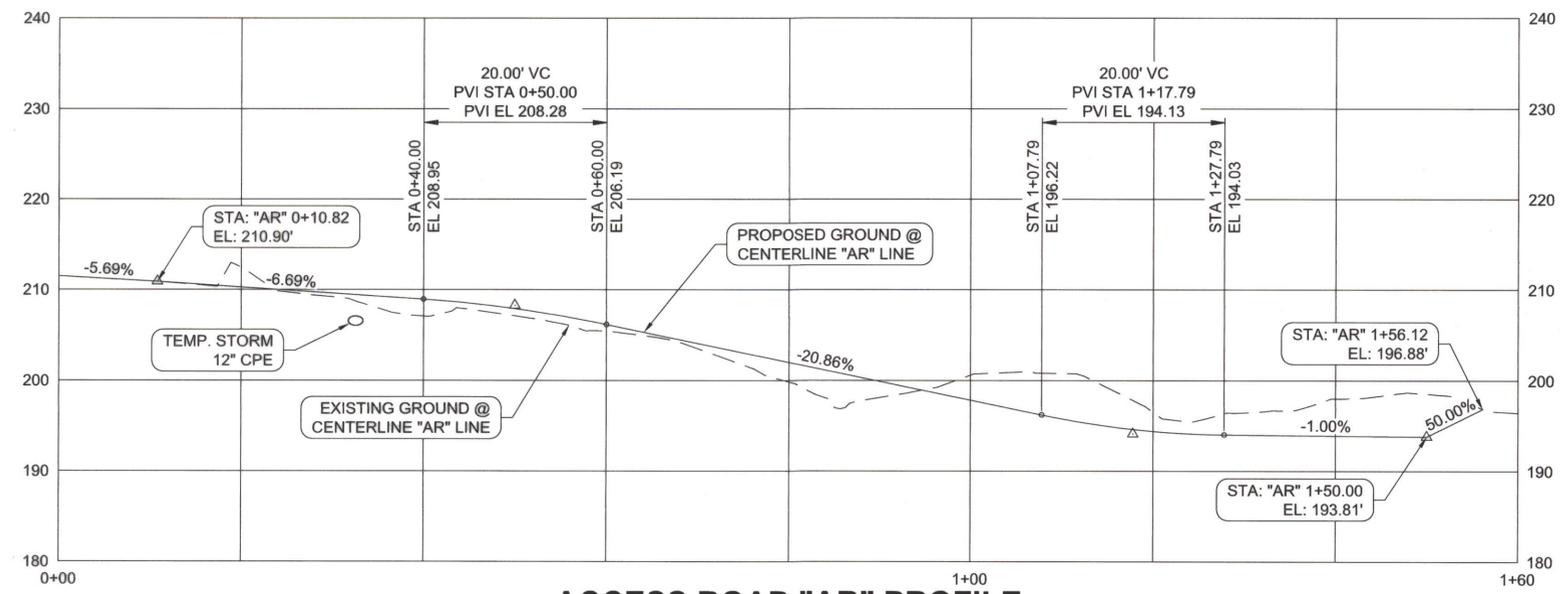


TEMPORARY ACCESS ROAD NOTES

1. PROTECT EXISTING TREES TO REMAIN WITH HIGH VISIBILITY FENCING.
2. ACCESS ROAD IS FOR TEMPORARY USE ONLY. CONTRACTOR TO ADJUST GRADE AND EXTENTS AS NECESSARY TO SUPPORT THEIR WORK. IMPACTED AREAS SHALL BE RESTORED TO EXISTING GRADE.
3. CONTRACTOR TO DETERMINE ACCESS NEEDED TO THE WORK AREAS IN AND ALONG THE STREAM CHANNEL.
4. CONTRACTOR TO MAINTAIN CUT & FILL SLOPES WITH 1.5 FT OF QUARRY SPALL ARMORING PER DETAIL A ON SHEET ESC03.
5. SEE SITE PREPARATION SHEETS FOR ITEMS TO BE REMOVED.
6. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.

LEGEND:

- F ——— FILL LINE
- C ——— CUT LINE
- TDP ——— ON GRADE 12 IN TEMPORARY DRAINAGE PIPE
- CONSTRUCTION STORMWATER ENERGY DISSIPATION PAD PER DETAIL B ON SHEET C11
- TEMPORARY ACCESS ROAD
- WETLAND AREA



TDB PROJECT MANAGER	2/4/26
KLB DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'
PROJECT ID: 1801
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COMPUTER FILE: 04_ESC03.dwg



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SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
TEMPORARY ACCESS ROAD PLAN & PROFILE

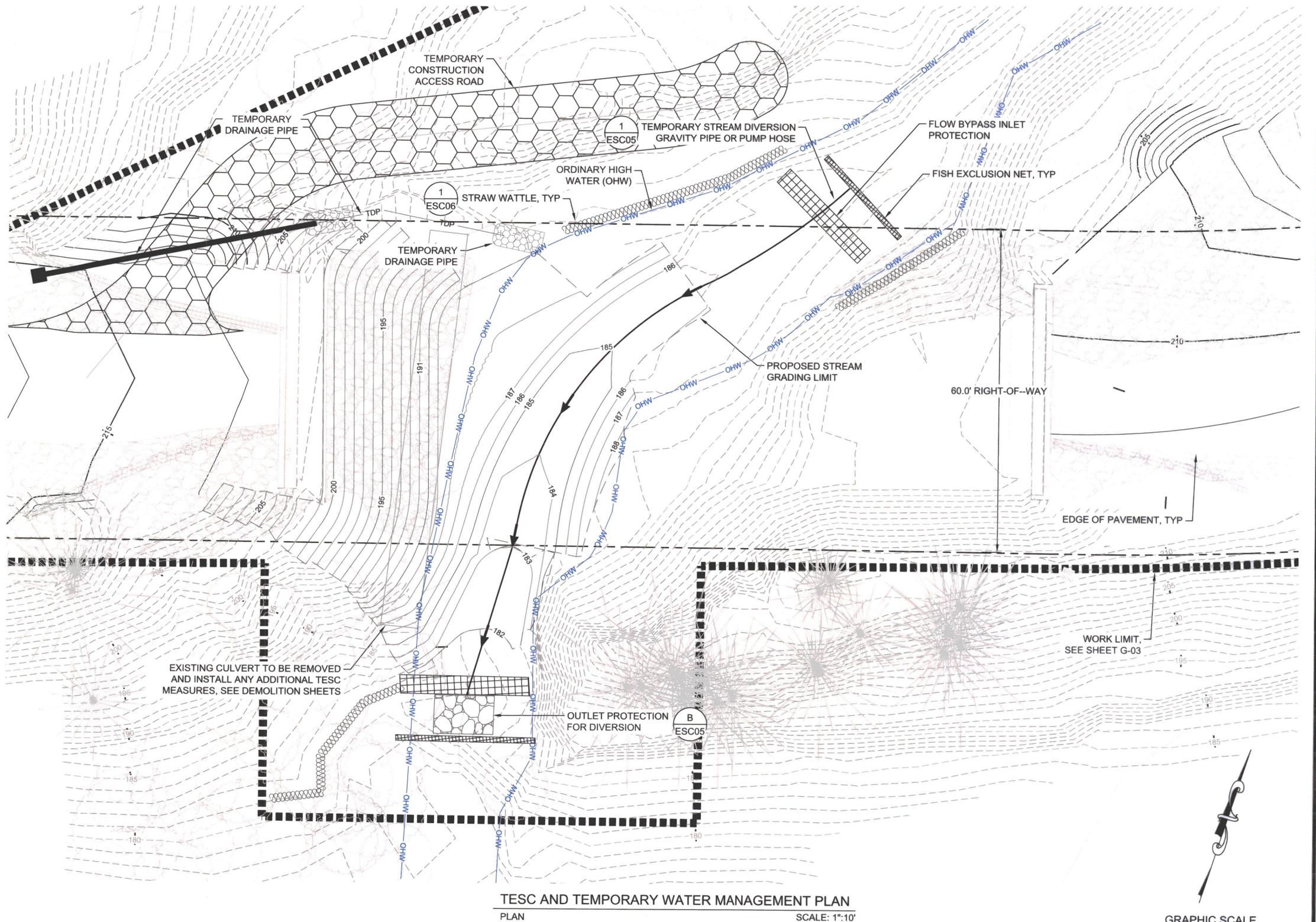
BID SET
SHEET
ESC03
9 OF 70

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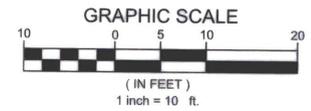
1. THIS PLAN AND THE ELEMENTS SHOWN IS SCHEMATIC AND FOR GENERAL GUIDANCE ONLY.
2. REFER TO THE ENTIRE PLAN SET FOR FULL WORK EXTENTS.
3. ADDITIONAL ESC SHOWN ON SHEET ESC01.
4. PRIOR TO IMPLEMENTATION, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE A TESC PLAN AND A TEMPORARY WATER MANAGEMENT PLAN FOR ENGINEER'S APPROVAL. THE APPROVAL OF THESE PLANS DO NOT CONSTITUTE APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN.
5. FISH EXCLUSION AND REMOVAL SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REMOVAL ACTIVITIES AND MAINTAINING THE FISH EXCLUSION NET MEETING THE REQUIREMENTS OF THE PERMITS.
6. THE TESC PLAN FACILITIES SHOWN ON THIS SHEET MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE WATER STANDARDS.
7. THE CONTRACTOR SHALL USE EVERY MEASURE POSSIBLE TO MINIMIZE TURBIDITY DISCHARGES AND SHALL STOP CONSTRUCTION AS DIRECTED BY ENGINEER IF TURBIDITY EXCEEDS PERMITTED LEVELS.
8. THE TESC PLAN FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC PLAN FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
9. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH PROJECT PERMITS.
10. SEE SHEET EN-01 FOR STREAM GRADING AND ALIGNMENT STAKING.

DEWATERING NOTES

1. THE CONTRACTOR SHALL DEWATER EXCAVATIONS AS NECESSARY TO PERFORM THE WORK SHOWN IN THE PLANS. DEWATERING DISCHARGE SHALL BE DIRECTED TO A SEDIMENT BAG OR ANOTHER APPROVED PUMP DISCHARGE SEDIMENT CONTROL SYSTEM.
2. THE DEWATERING SCHEMATIC SHOWN HERE IS A MEANS OF DEWATERING DISCHARGE. THE FINAL METHODS ARE THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT AND TO COMPLY WITH PERMIT CONDITIONS. CONTRACTOR SHALL MONITOR AREAS DOWN-SLOPE OF DISCHARGE FOR TURBIDITY AND MAKE ADJUSTMENTS AS NEEDED TO COMPLY WITH TURBIDITY LIMITS.



TESC AND TEMPORARY WATER MANAGEMENT PLAN
SCALE: 1"=10'

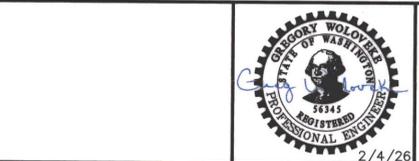


HUNTER WHITE, PE PROJECT MANAGER	2/4/2026 DATE
GREG WOLOVEKE, PE DRAWN BY	2/4/2026 DATE
GREG WOLOVEKE, PE CHECKED BY	2/4/2026 DATE

HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN
PROJECT ID: 1801 ROAD NO. : 51200
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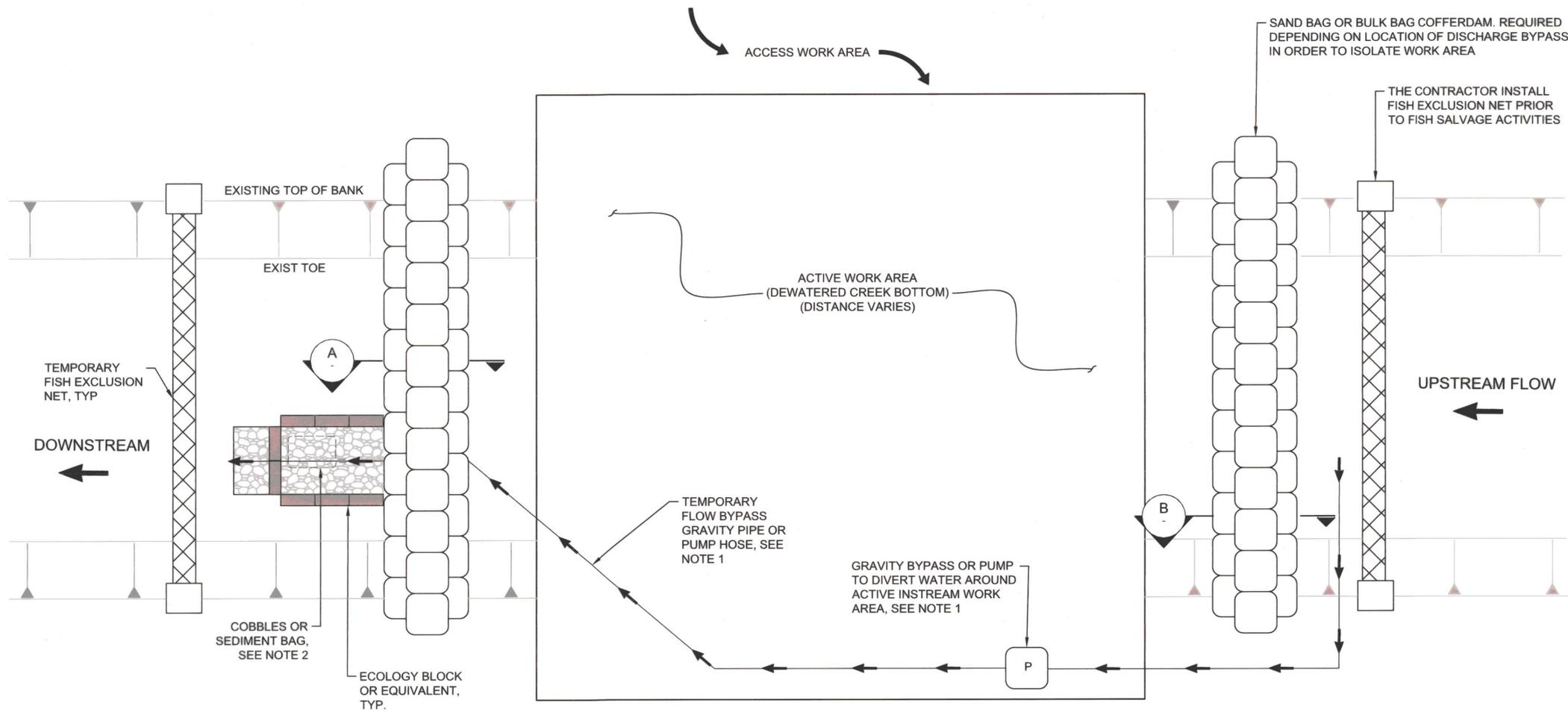
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KELSO, WASHINGTON 98626



SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
TEMPORARY EROSION CONTROL AND STREAM DIVERSION

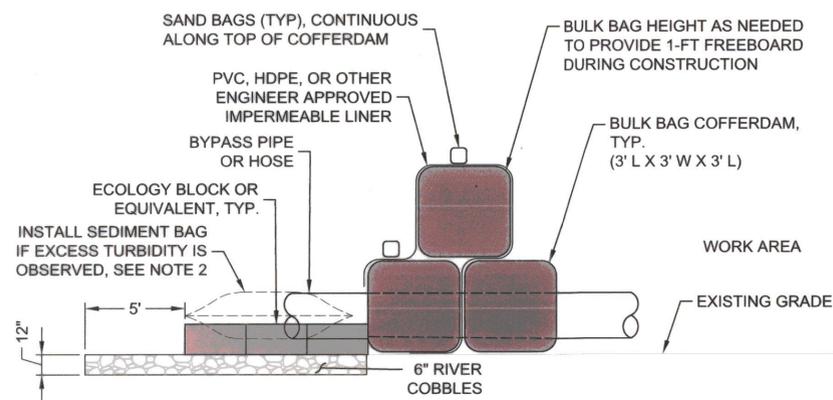
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SHEET ESC04
10 OF 70



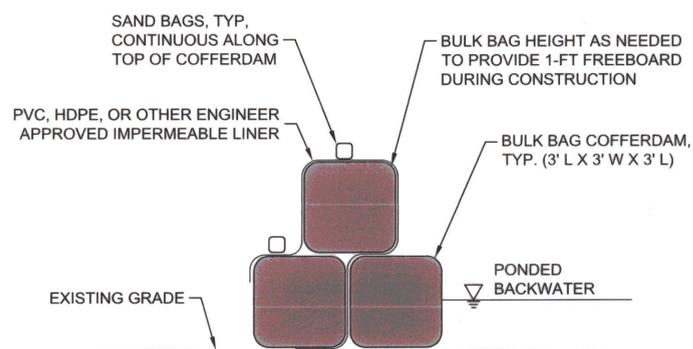
1 TEMPORARY FLOW DIVERSION AND FISH EXCLUSION
 ESC04 DETAIL SCALE: NTS

NOTES

1. THIS STREAM DIVERSION AND FISH EXCLUSION SCHEMATIC IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND MAINTAINING THE STREAM DIVERSION SYSTEM BASED ON CONDITIONS AT THE TIME OF CONSTRUCTION.
2. THE CONTRACTOR SHALL USE EVERY MEASURE POSSIBLE TO MINIMIZE TURBIDITY DISCHARGES AND SHALL STOP CONSTRUCTION AS DIRECTED BY ENGINEER IF TURBIDITY EXCEEDS PERMITTED LEVELS. IF EXCESS TURBIDITY IS OBSERVED IN THE DISCHARGE OF THE STREAM BYPASS, THE CONTRACTOR SHALL USE A SEDIMENT BAG OR EQUIVALENT BMP AS SHOWN ON DETAIL 2 SHEET ESC06.
3. COFFERDAM INSTALLATION AND STREAM DIVERSION SHALL NOT COMMENCE UNTIL THE UPSTREAM AND DOWNSTREAM TEMPORARY FISH EXCLUSION NETS HAVE BEEN INSTALLED.
4. CONTRACTOR TO PERFORM FISH EXCLUSION AND FISH REMOVAL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT PERMITS. TEMPORARY FISH EXCLUSION NET MUST BE MAINTAINED IN PLACE DURING IN-STREAM WORK AND COFFERDAM REMOVAL.
5. SIZE, QUANTITY AND CONFIGURATION OF BULK BAGS SHOWN FOR COFFERDAMS ARE CONCEPTUAL ONLY AND WILL VARY FROM THAT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SIZE, QUANTITY AND CONFIGURATION OF BULK BAGS AND/OR SANDBAGS NECESSARY TO BYPASS FLOW AND ISOLATE THE WORK AREA AND ENABLE SUCCESSFUL OPERATION OF BYPASS SYSTEM AND MINIMIZE FLOW LEAKAGE TO THE EXTENT NECESSARY TO COMPLETE CONSTRUCTION AND CONFORM TO PERMIT REQUIREMENTS. MINOR EXCAVATION OF BANKS WILL BE ALLOWED TO KEY-IN BULK BAGS AS NECESSARY TO MINIMIZE FLOW LEAKAGE AND COMPLETE INSTALLATION OF COFFERDAM. ALL BULK BAGS SHALL BE FILLED WITH CLEAN WASHED ROUNDED GRAVEL AND SANDBAGS FILLED WITH CLEAN, WASHED SAND.
6. THE FLOW BYPASS AND FISH EXCLUSION SYSTEM SHALL BE MAINTAINED 24 HOURS PER DAY DURING CONSTRUCTION AND MONITORED TO THE REQUIREMENTS OF THE PERMITS BY THE CONTRACTOR DURING WORKING AND NON-WORKING HOURS.
7. THE CONTRACTOR SHALL REMOVE ANY DIVERSION, COFFERDAM, AND/OR FISH SCREEN FOLLOWING COMPLETION OF IN-WATER CONSTRUCTION AS DETERMINED AND APPROVED BY COWLITZ COUNTY.



A SECTION - FLOW DIVERSION OUTLET
 ESC04 DETAIL SCALE: NTS



B SECTION - FLOW DIVERSION OUTLET
 ESC04 DETAIL SCALE: NTS

HUNTER WHITE, PE PROJECT MANAGER	2/4/2026 DATE
GREG WOLOVEKE, PE DRAWN BY	2/4/2026 DATE
GREG WOLOVEKE, PE CHECKED BY	2/4/2026 DATE

HORIZ. SCALE: AS SHOWN
 VERT. SCALE: AS SHOWN
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE:



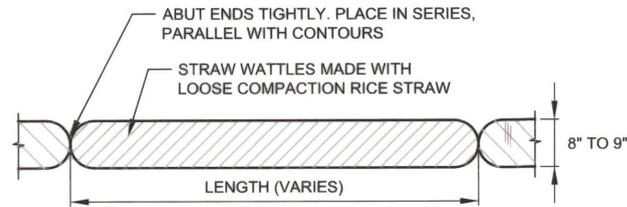
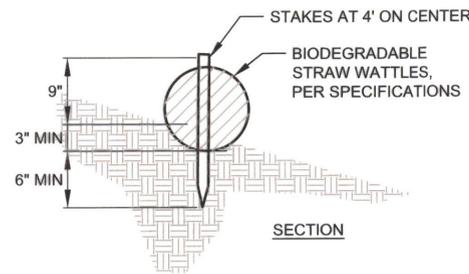
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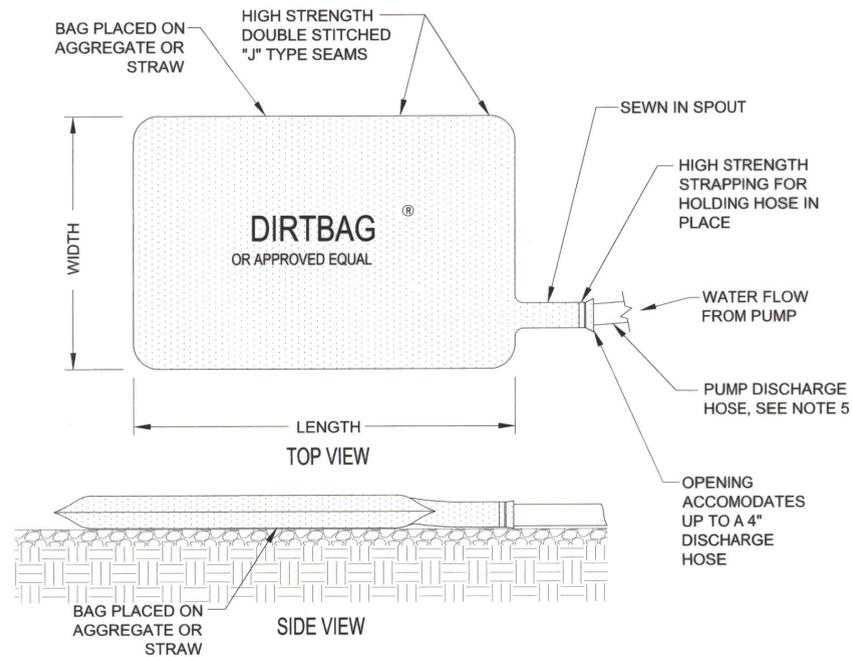
SEC 16 T 10 N R 1 W
 CRP NO 788

**TOWER ROAD BRIDGE
 AT ROCK CREEK**
TEMPORARY STREAM DIVERSION DETAILS

BID SET
 SHEET
ESC05
 11 OF 70



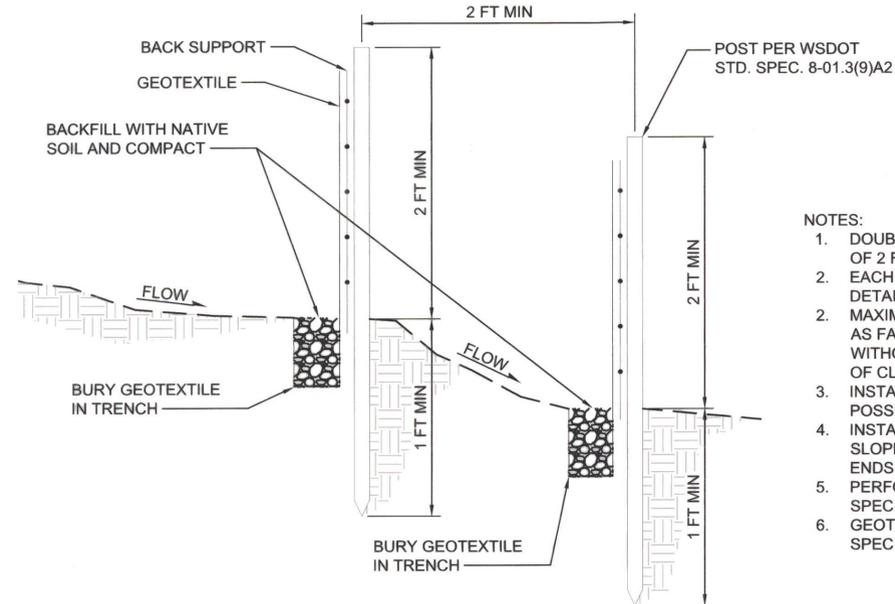
1 STRAW WATTLE
ESC04 DETAIL SCALE: NTS



2 SEDIMENT BAG
ESC04 DETAIL SCALE: NTS

SEDIMENT BAG NOTES

1. THE GEOTEXTILE BAG SHALL BE ATTACHED TO THE EFFLUENT PIPE FROM THE DEWATERING PUMP. THE PLACEMENT OF THE GEOTEXTILE BAG SHALL BE INCLUDED IN THE CONTRACTOR'S TEMPORARY STREAM DIVERSION PLAN.
2. AVOID PLACEMENT OF THE GEOTEXTILE BAG ABOVE STEEP SLOPES OR WHERE SATURATED SOIL CONDITIONS MAY CAUSE SOIL INSTABILITY.
3. INSTALL THE GEOTEXTILE BAG ON A MILD SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG. DISPOSE OF CAPTURED SEDIMENT OFFSITE.
4. THE GEOTEXTILE BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE. DISPOSE OF THE BAG TO THE REQUIREMENTS OF CONTRACT SPECIFICATIONS AND PERMITS.
5. THE GEOTEXTILE BAG AND OUTLET SHALL NOT BE LOCATED IN THE EXCLUSION ZONE. HOWEVER THE CONTRACTOR MAY ENTER THE EXCLUSION ZONE ON FOOT IN ORDER TO ROUTE THE DEWATERING DISCHARGE HOSE THROUGH THE EXCLUDED AREA THE FINAL DISCHARGE LOCATION MUST BE SUBMITTED FOR REVIEW BY THE ENGINEER AS PART OF THE TEMPORARY STREAM DIVERSION PLAN.



3 DOUBLE SILT FENCE
ESC01 DETAIL SCALE: NTS

NOTES:

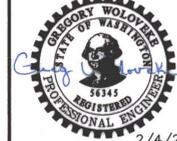
1. DOUBLE SILT FENCING ROWS SHALL BE SPACED A MINIMUM OF 2 FT APART.
2. EACH TWO SILT FENCES SHALL BE IN ACCORDANCE WITH DETAILS FOR SINGLE SILT FENCE ON THIS SHEET.
3. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM THE TOE OF SLOPE AS POSSIBLE WITHOUT ENCROACHING ON SENSITIVE AREAS OR OUTSIDE OF CLEARING BOUNDARIES.
4. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
5. INSTALL THE ENDS OF SILT FENCE TO POINT SLIGHTLY UP SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND ENDS.
6. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STD. SPEC. 8-01.3(9)A2.
7. GEOTEXTILE FOR TEMPORARY SILT FENCE PER WSDOT STD. SPEC 8-01.3(9)A2 AND 9-33.2(1) TABLE 6.

HUNTER WHITE, PE PROJECT MANAGER	2/4/2026 DATE
GREG WOLOVEKE, PE DRAWN BY	2/4/2026 DATE
GREG WOLOVEKE, PE CHECKED BY	2/4/2026 DATE

HORIZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE:



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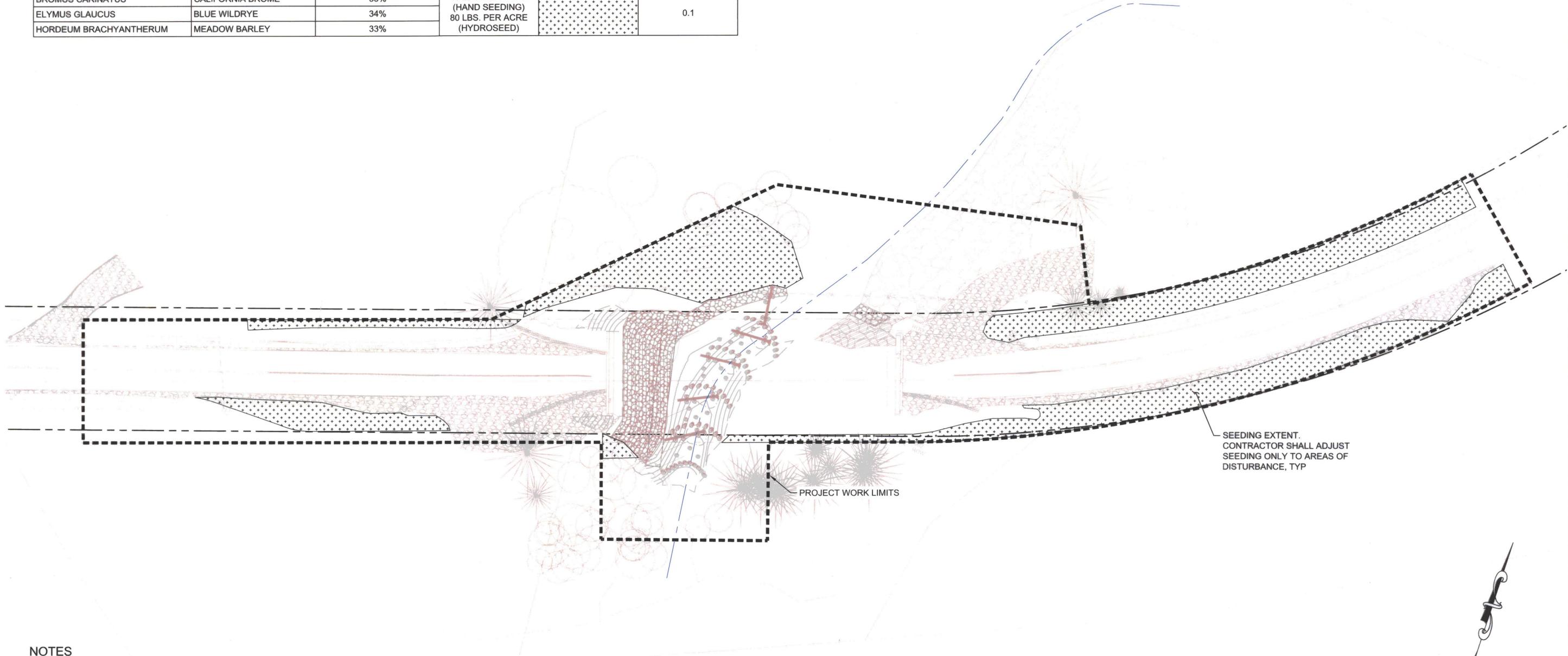
SEC 16 T 10 N R 1 W
CRP NO 788

**TOWER ROAD BRIDGE
AT ROCK CREEK
TESC DETAILS**

BID SET
SHEET
ESC06
12 OF 70

SEED MIX

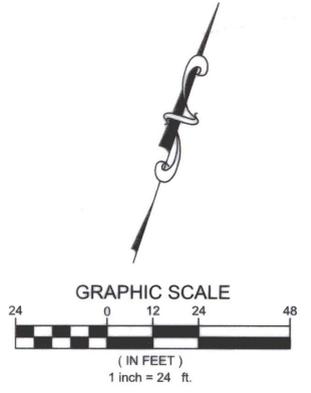
BOTANICAL NAME	COMMON NAME	DISTRIBUTION BY WEIGHT	APPLICATION RATE	PLAN VIEW EXTENTS	AREA (AC)
BROMUS CARINATUS	CALIFORNIA BROME	33%	40 LBS. PER ACRE (HAND SEEDING) 80 LBS. PER ACRE (HYDROSEED)		0.1
ELYMUS GLAUCUS	BLUE WILDRYE	34%			
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	33%			



NOTES

- SEE SHEETS ESC01 AND ESC02 FOR EROSION CONTROL PLANS.
- SEED ALL DISTURBED AREAS WITHIN WORK LIMITS THAT FALL OUTSIDE OF PROPOSED ROCK EXTENTS, PROPOSED PAVING EXTENTS, ORDINARY HIGH WATER MARK, AND DITCH EXTENTS.

SEEDING PLAN
PLAN SCALE: 1"=24'



HUNTER WHITE, PE
PROJECT MANAGER
DATE: 2/4/2026

GREG WOLOVEKE, PE
DRAWN BY
DATE: 2/4/2026

GREG WOLOVEKE, PE
CHECKED BY
DATE: 2/4/2026

HORIZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE:



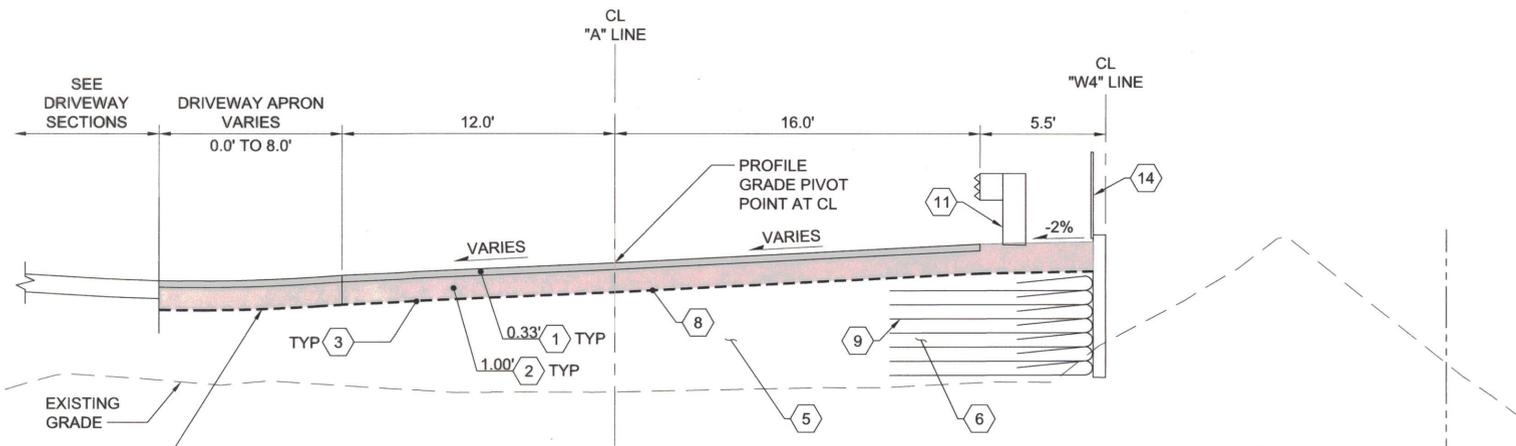
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SEC 16 T 10 N R 1 W
CRP NO 788

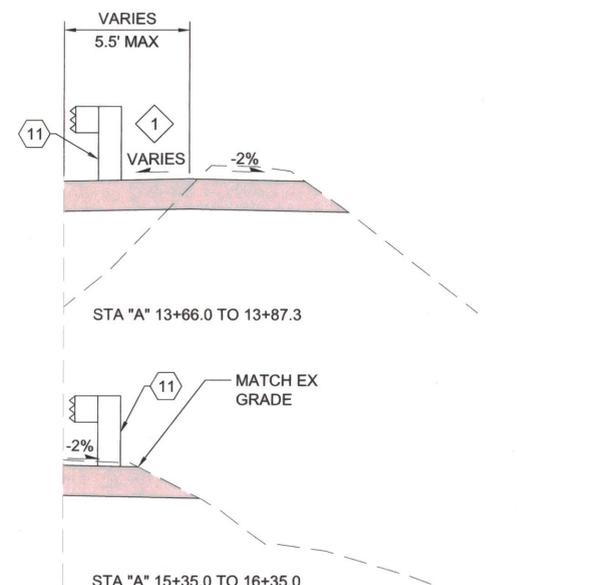
**TOWER ROAD BRIDGE
AT ROCK CREEK
RESTORATION SEEDING PLAN**

BID SET
SHEET
ESC07
13 OF 70



MULTI-AXIAL GEOGRID REINFORCEMENT WILL BE PLACED FROM STA "A" 13+54.8 TO 13+61.8 LT & RT. CONSTRUCTION GEOTEXTILE FOR SEPERATION WILL BE USED AT ALL FOLLOWING STATIONS.

3 TYPICAL ROAD SECTION - FULL DEPTH PAVEMENT
 NOT TO SCALE
 (END OF BRIDGE) STA "A" 13+54.8 TO 14+11.4 LT
 (END OF BRIDGE) STA "A" 13+54.8 TO 13+66.0 RT



4 TYPICAL ROAD SECTION - FULL DEPTH PAVEMENT
 NOT TO SCALE
 STA "A" 14+11.4 TO 16+35.0 LT
 STA "A" 13+66.0 TO 16+35.0 RT

GENERAL NOTES

1. ALL DEPTHS SPECIFIED ARE FULL COMPACTED DEPTHS.
2. REFERENCE WSDOT STD PLAN C-20.10 FOR GUARDRAIL PLACEMENT AND DETAILS.
3. SEE SHEETS C05 AND C06 FOR SUPERELEVATION PROFILE.
4. HMA CL 3/8 IN TO BE COMPLETED IN TWO COURSES, ONE 2 INCH LEVELING COURSE FOLLOWED BY A 2 INCH WEARING COURSE.
5. SEE SHEETS C08 AND C09 FOR DITCH LAYOUT.
6. SEE SHEET C11 FOR DITCH DETAIL.
7. SEE PLAN SHEETS FOR EXTENTS OF PRIVATE DRIVEWAY.
8. SEE STD PLAN L-5.10-2 FOR BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL ALONG ALL WALL SECTIONS WITH EXPOSED FACE GREATER THAN 3 FT HIGH.

CONSTRUCTION NOTES

- 1 HMA CL 3/8 IN. PG 58H-22
- 2 CRUSHED SURFACING BASE COURSE
- 3 CONSTRUCTION GEOTEXTILE FOR SEPARATION
- 4 QUARRY SPALLS
- 5 GRAVEL BORROW (AS NEEDED)
- 6 GRAVEL BORROW FOR STRUCTURAL EARTH WALL
- 7 IMPERMEABLE CONSTRUCTION GEOTEXTILE. SEE DRAINAGE DITCH DETAIL C ON SHEET C11.
- 8 MULTI-AXIAL GEOGRID REINFORCEMENT
- 9 GEOTEXTILE REINFORCEMENT FOR STRUCTURAL EARTH WAL SEE S SHEETS FOR DETAILS
- 11 BEAM GUARDRAIL TYPE 31
- 14 BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL

GRADING NOTES

- 1 SEE SHEET C18 FOR SHOULDER X-SLOPE

TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: NONE
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 05_C02.dwg



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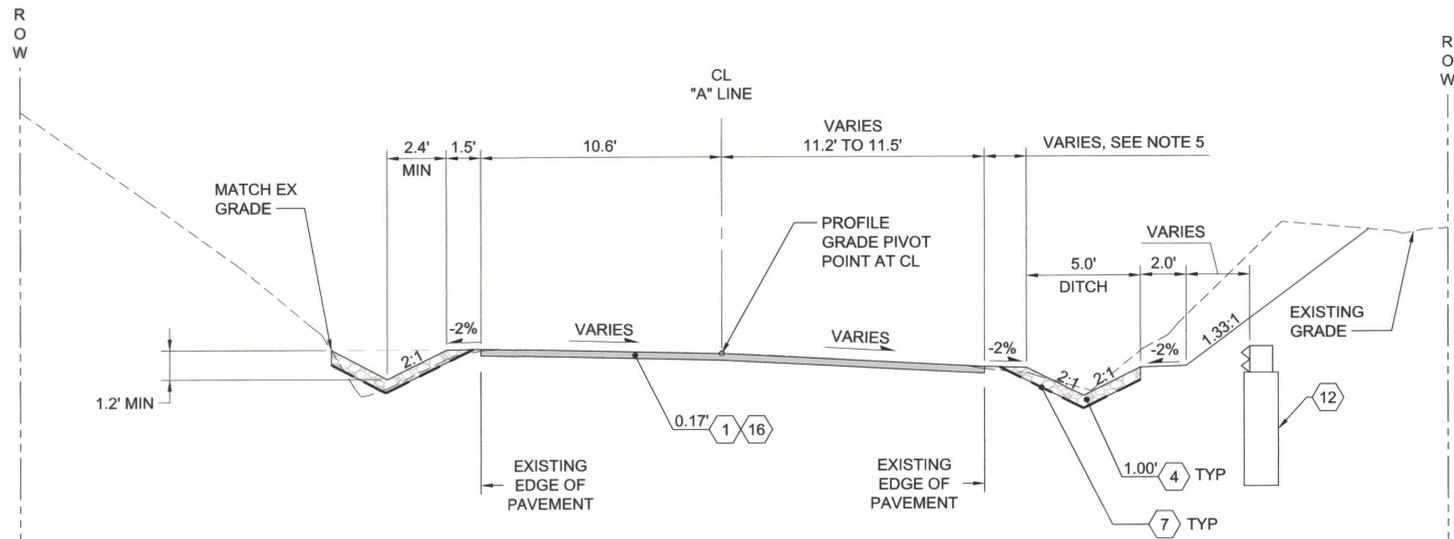
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 1300 SW 5TH AVE, Suite 3100
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 TEL: 503-872-4100
 FAX: 503-872-4101



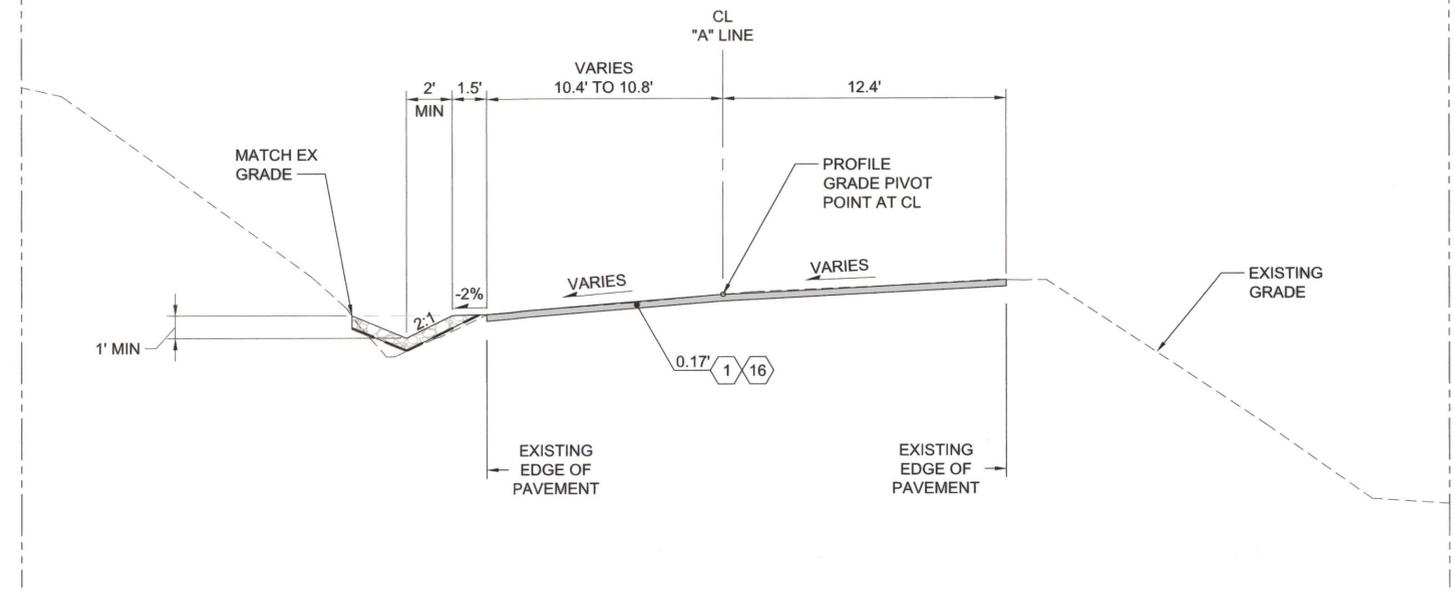
SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
TYPICAL ROAD SECTIONS - SHEET 2

BID SET
 SHEET C02
 15 OF 70



5 TYPICAL ROAD SECTION - HMA INLAY
NOT TO SCALE
STA "A" 9+97.0 TO 10+12.5



6 TYPICAL ROAD SECTION - HMA INLAY
NOT TO SCALE
STA "A" 16+35.0 TO 16+55.0

GENERAL NOTES

1. ALL DEPTHS SPECIFIED ARE FULL COMPACTED DEPTHS.
2. REFERENCE WSDOT STD PLAN C-20.10 FOR GUARDRAIL PLACEMENT AND DETAILS.
3. SEE SHEETS C05 AND C06 FOR SUPERELEVATION PROFILE.
4. SEE SHEETS C08 AND C09 FOR DITCH LAYOUT.
5. SEE SHEET C11 FOR DITCH DETAIL.

CONSTRUCTION NOTES

- 1 HMA CL 3/8 IN. PG 58H-22
- 4 QUARRY SPALLS
- 7 IMPERMEABLE CONSTRUCTION GEOTEXTILE. SEE DRAINAGE DITCH DETAIL C ON SHEET C11
- 12 BEAM GUARDRAIL TYPE 31 BURIED TERMINAL
- 16 PLANING BITUMINOUS PAVEMENT

TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
JDM CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 05_C03.dwg

COWLITZ COUNTY
WASHINGTON

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SEC 16 T 10 N R 1 W
CRP NO 788

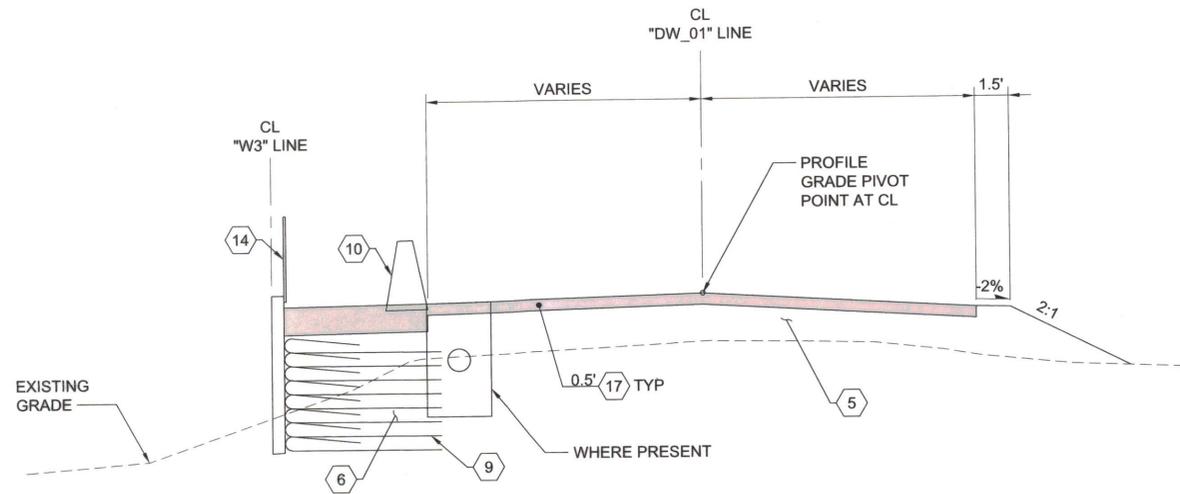
TOWER ROAD BRIDGE AT ROCK CREEK

TYPICAL ROAD SECTIONS - SHEET 3

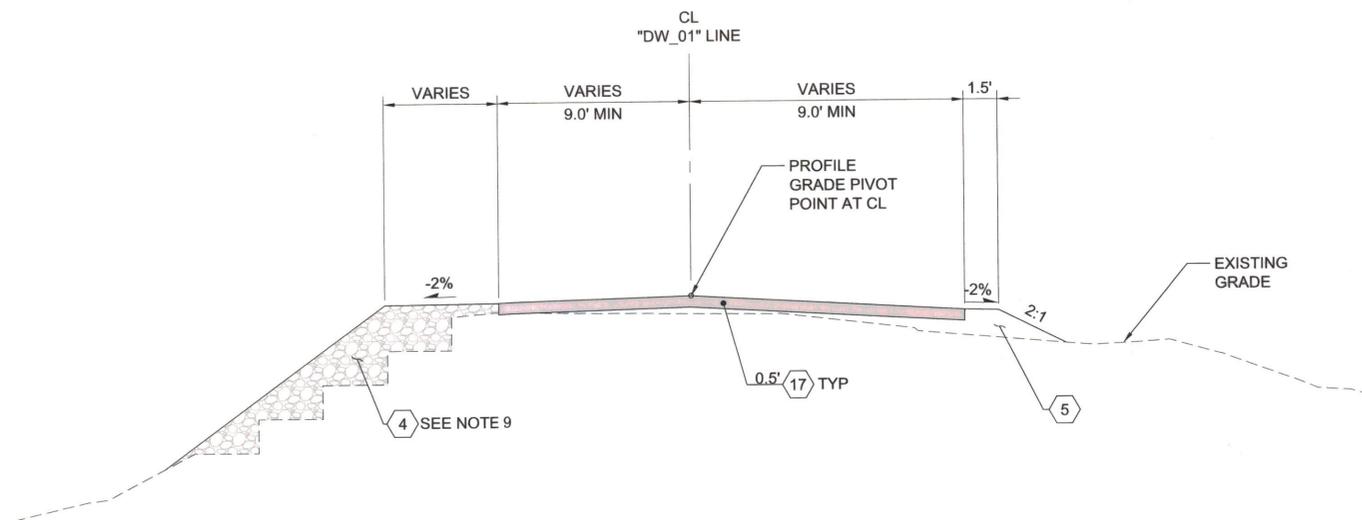
BID SET

SHEET **C03**

16 OF 70



7 **TYPICAL DRIVEWAY SECTION**
NOT TO SCALE
STA "DW-01" 0+20.0 TO 0+35.0
SEE SHEET C-07



8 **TYPICAL DRIVEWAY SECTION**
NOT TO SCALE
STA "DW-01" 0+35.0 TO 0+52.0
SEE SHEET C-07

GENERAL NOTES

1. ALL DEPTHS SPECIFIED ARE FULL COMPACTED DEPTHS.
2. REFERENCE WSDOT STD PLAN C-20.10 FOR GUARDRAIL PLACEMENT AND DETAILS.
3. SEE SHEETS C05 AND C06 FOR SUPERELEVATION PROFILE.
4. HMA CL 3/8 IN TO BE COMPLETED IN TWO COURSES, ONE 2 INCH LEVELING COURSE FOLLOWED BY A 2 INCH WEARING COURSE.
5. SEE SHEETS C08 AND C09 FOR DITCH LAYOUT.
6. SEE SHEET C11 FOR DITCH DETAIL.
7. SEE PLAN SHEETS FOR EXTENTS OF PRIVATE DRIVEWAY.
8. SEE STD PLAN L-5.10-2 FOR BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL ALONG ALL WALL SECTIONS WITH EXPOSED FACE GREATER THAN 3 FT HIGH.
9. TERRACE HILLSIDE PER WSDOT STD. SPEC 2-03.3(14).

CONSTRUCTION NOTES

- 4 QUARRY SPALLS
- 5 GRAVEL BORROW (AS NEEDED)
- 6 GRAVEL BORROW FOR STRUCTURAL EARTH WALL
- 9 GEOTEXTILE REINFORCEMENT FOR STRUCTURAL EARTH WALL SEE S SHEETS FOR DETAILS
- 10 SINGLE SLOPE CAST-IN-PLACE CONCRETE BARRIER
- 14 BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL
- 17 CRUSHED SURFACING TOP COURSE

TDB	2/4/26
PROJECT MANAGER	DATE
KLB	2/4/26
DRAWN BY	DATE
JDM	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 05_C04.dwg



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CRP NO 788

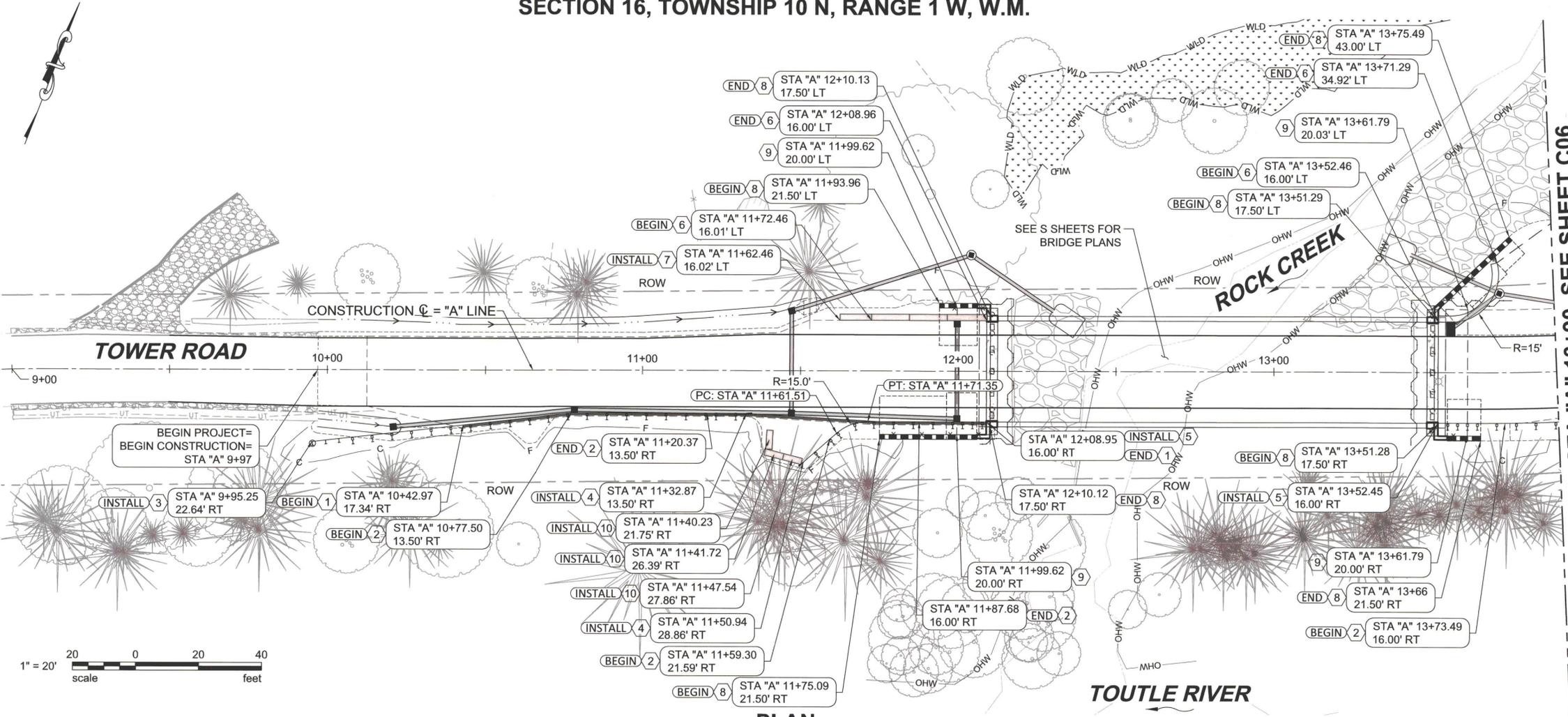
**TOWER ROAD BRIDGE
AT ROCK CREEK**
TYPICAL ROAD SECTIONS - SHEET 4

BID SET

SHEET
C04

17 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.

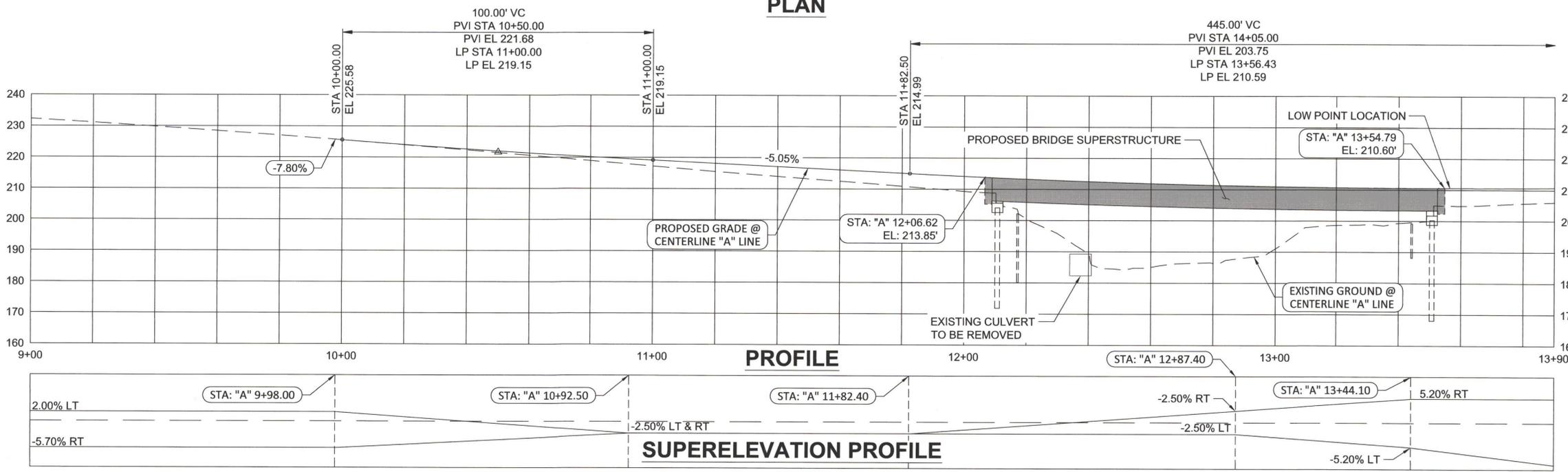


- ### CONSTRUCTION NOTES
- 1 CONCRETE EXTRUDED CURB TYPE 4 PER WSDOT STD. PLAN F-10.42-00
 - 2 BEAM GUARDRAIL TYPE 31 PER WSDOT STD. PLAN C-20.10-09
 - 3 BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2 PER WSDOT STD. PLAN C-22.16-08
 - 4 BEAM GUARDRAIL TYPE 31 ANCHOR TYPE 11 PER WSDOT STD. PLAN C-23.70-01
 - 5 BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 24 PER WSDOT STD. PLAN C-25.30-01
 - 6 SINGLE SLOPE CAST-IN-PLACE CONCRETE BARRIER PER WSDOT STD. PLAN C-80.10-03
 - 7 SINGLE SLOPE CAST-IN-PLACE CONCRETE BARRIER TERMINAL PER WSDOT STD. PLAN C-80.20-01
 - 8 BLACK VINYL COATED 4 FT BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL PER WSDOT STD. PLAN L-5.10-02
 - 9 MULTI-AXIAL GEOGRID REINFORCEMENT. SEE SHEETS C01 & C02 FOR REINFORCEMENT IN SECTION VIEW.
 - 10 EMBEDDED ECOLOGY BLOCK 2 FT (H) X 6 FT (L) X 2 FT (W) SEE DETAIL 1 ON SHEET C06

- ### GENERAL NOTES
1. SEE SHEETS C01 THROUGH C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
 2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
 3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
 4. ALL GUARDRAIL POSTS WITHIN THE UNIAXIAL GEOGRID REINFORCEMENT LIMITS SHALL BE STEEL.
 5. FLEXIBLE GUIDE POSTS TO BE INSTALLED AT EVERY THIRD SECTION OF GUARDRAIL INCLUDING TERMINALS AND TRANSITIONS.

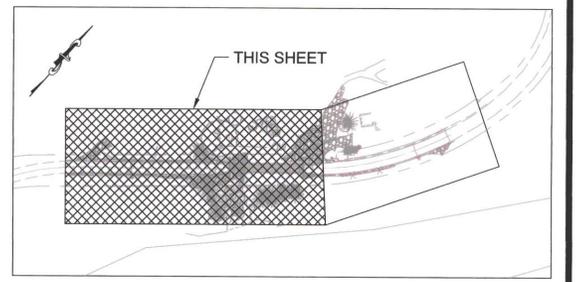


PLAN



PROFILE

SUPERELEVATION PROFILE



KEYPLAN

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TDB PROJECT MANAGER	2/4/26 DATE
KLB DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 20'
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 05_C05.dwg



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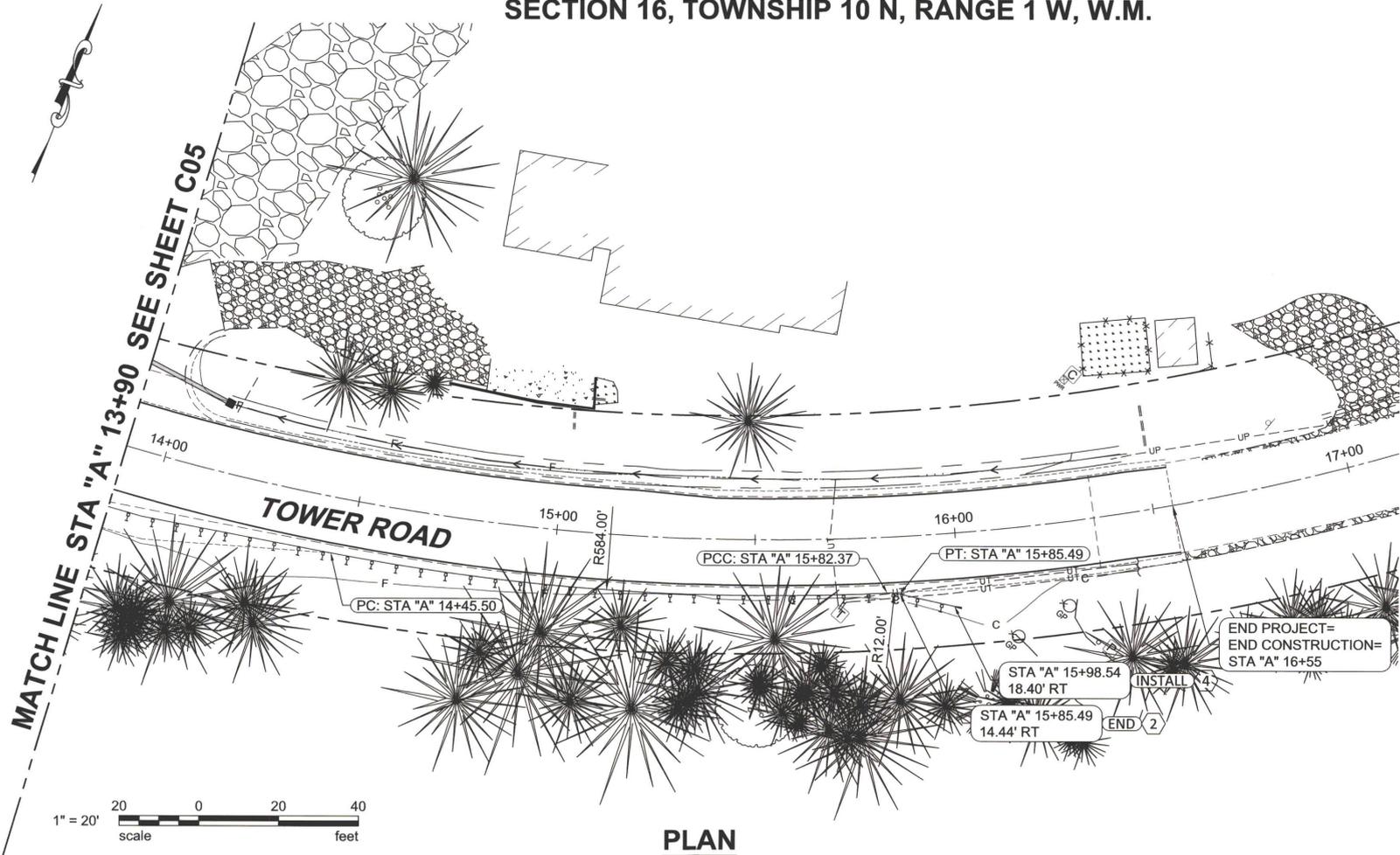


SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
 ROADWAY PLAN & PROFILE - SHEET 1

BID SET
 SHEET C05
 18 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.

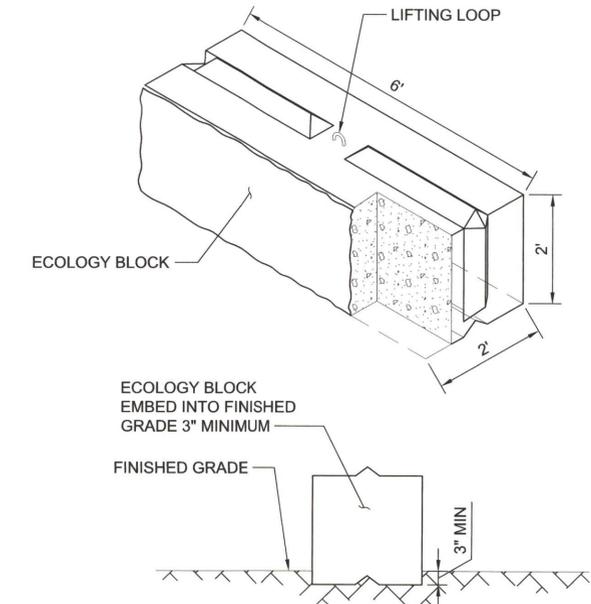


CONSTRUCTION NOTES

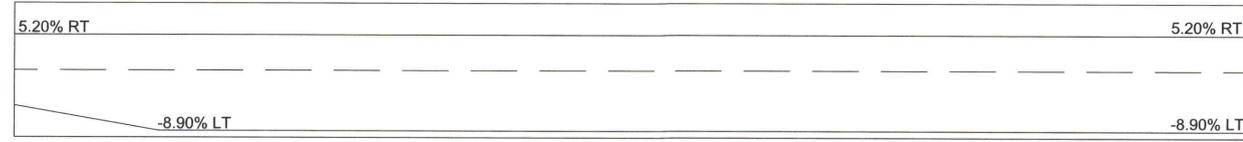
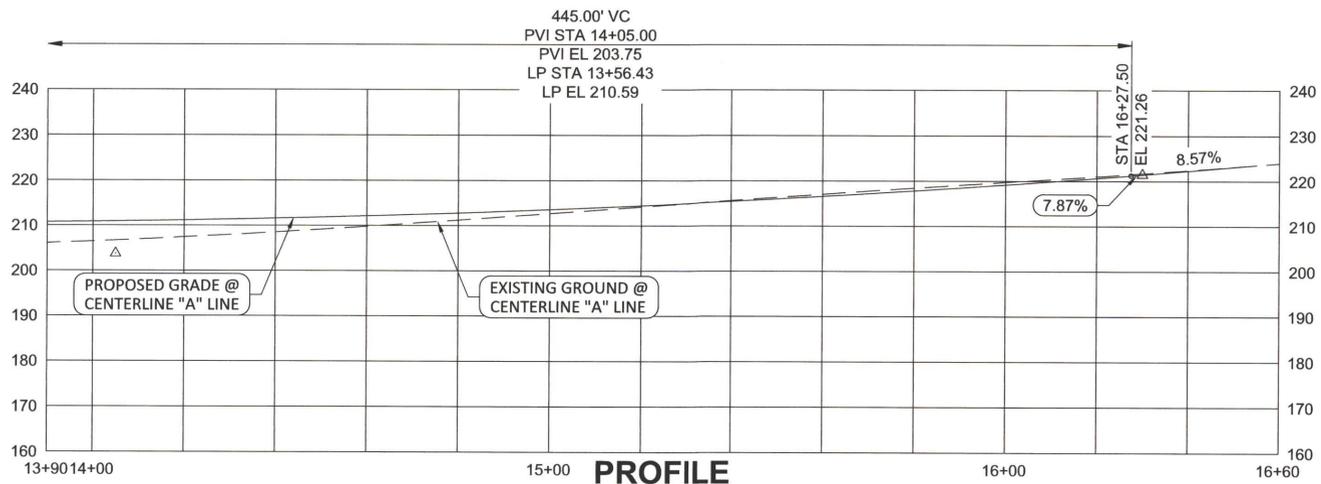
- 2 BEAM GUARDRAIL TYPE 31 PER WSDOT STD. PLAN C-20.10-09
- 4 BEAM GUARDRAIL TYPE 31 ANCHOR TYPE 11 PER WSDOT STD. PLAN C-23.70-01

GENERAL NOTES

1. SEE SHEETS C01 THROUGH C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. ALL GUARDRAIL POSTS WITHIN THE UNIAXIAL GEOGRID REINFORCEMENT LIMITS SHALL BE STEEL.
5. FLEXIBLE GUIDE POSTS TO BE INSTALLED AT EVERY THIRD SECTION OF GUARDRAIL INCLUDING TERMINALS AND TRANSITIONS.

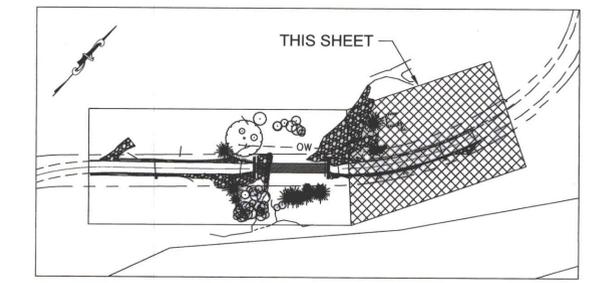


1
C05 **ECOLOGY BLOCK EMBEDMENT**
SCALE: NTS



SUPERELEVATION PROFILE

HORIZ. & VERT. 1" = 20'
scale feet



TDB PROJECT MANAGER	2/4/26
KLB DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 20'
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 05_C06.dwg



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KELSO, WASHINGTON 98626



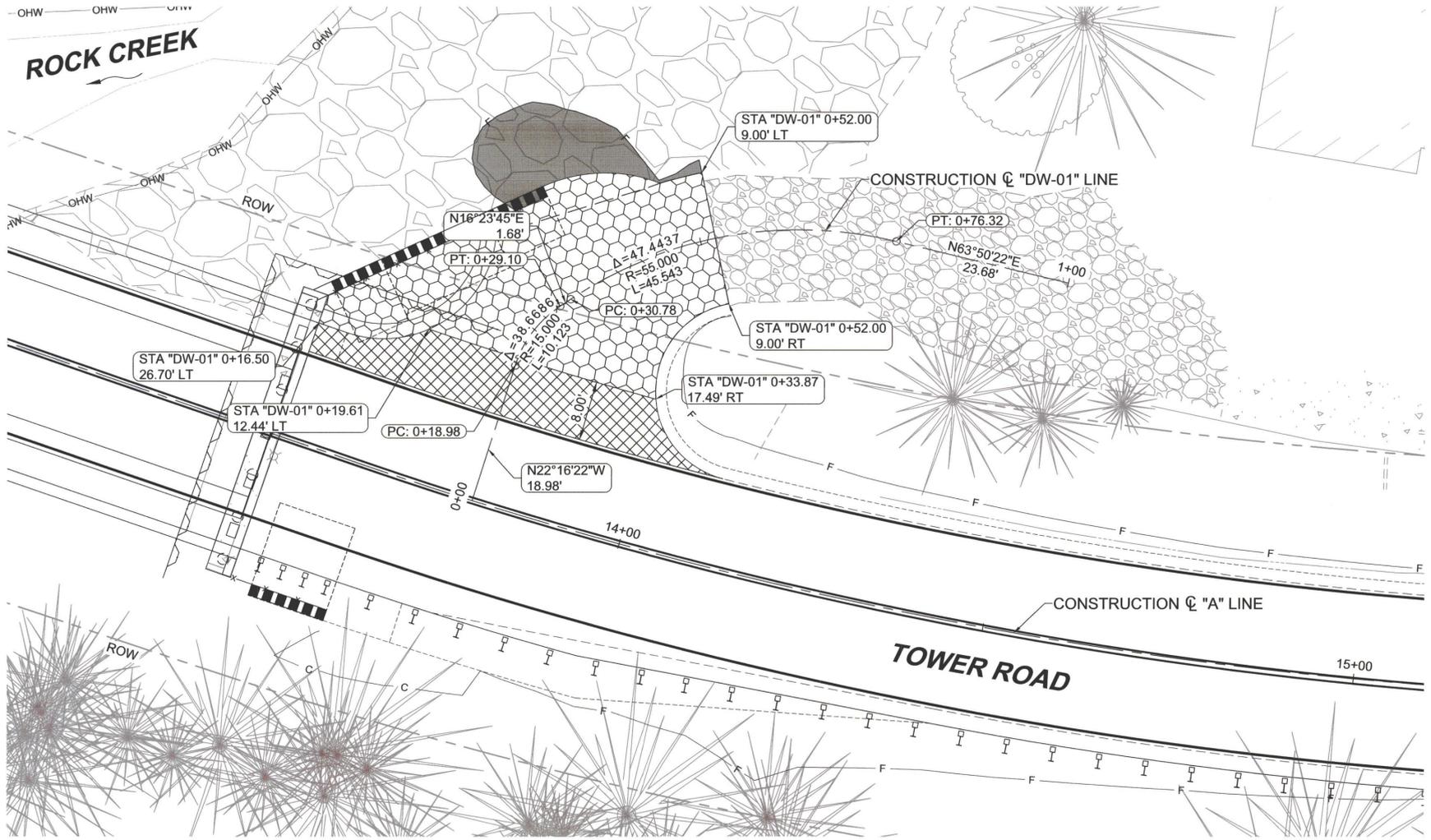
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1300 SW 5TH AVE,
Suite 3100
Portland, OR 97201
TEL: 503-872-4100
FAX: 503-872-4101



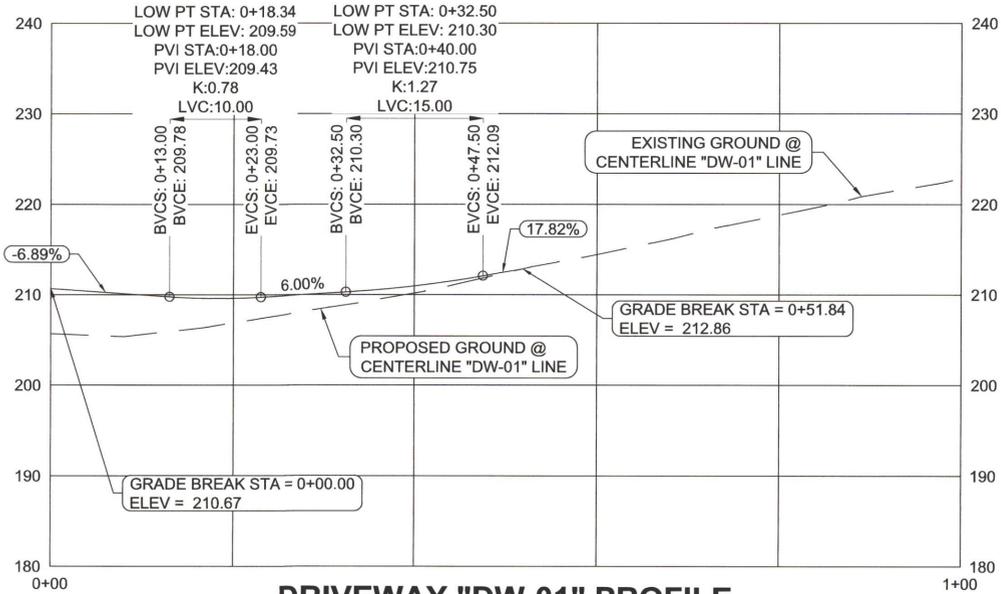
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
ROADWAY PLAN & PROFILE - SHEET 2

BID SET
SHEET C06
19 OF 70



PLAN



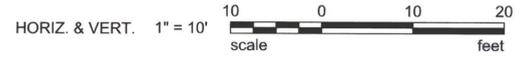
DRIVEWAY "DW-01" PROFILE

GENERAL NOTES

- 1. SEE SHEETS C01 THROUGH C04 FOR ROADWAY AND TYPICAL DRIVEWAY SECTIONS.

LEGEND:

- F FILL LINE
- C CUT LINE
- EXISTING DRIVEWAY GRAVEL
- PROPOSED DRIVEWAY CSTC LIMITS
- PROPOSED DRIVEWAY HMA LIMITS
- PROPOSED QUARRY SPALL FILL LIMITS
- QUARRY SPALLS



TDB	2/4/26
PROJECT MANAGER	DATE
KLB	2/4/26
DRAWN BY	DATE
JDM	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 10'
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 05_C07.dwg



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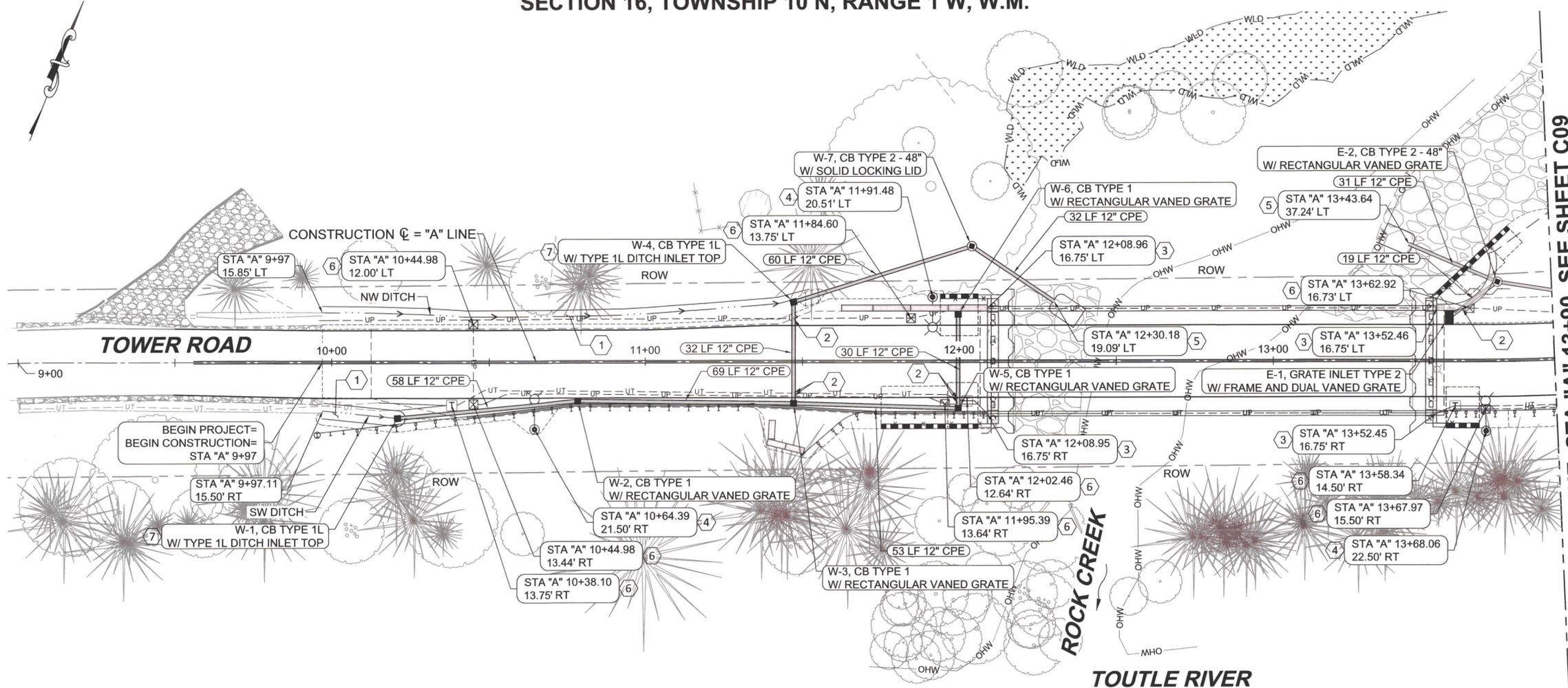
**SEC 16 T 10 N R 1 W
 CRP NO 788**

**TOWER ROAD BRIDGE
 AT ROCK CREEK**

DRIVEWAY PLAN & PROFILE

BID SET
 SHEET **C07**
20 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

DRAINAGE NOTES

1. DRAINAGE STRUCTURE STATION AND OFFSET ARE TO CENTER OF STRUCTURE LID OR GRATE.
2. SEE SHEETS C10 FOR DRAINAGE PROFILES AND ADDITIONAL DRAINAGE INFORMATION.
3. SEE WSDOT STD. PLAN B-5.20 FOR CATCH BASIN TYPE 1. SEE WSDOT STD. PLAN B-5.40 FOR CATCH BASIN TYPE 1L. SEE WSDOT STD. PLAN B-10.20 FOR CATCH BASIN TYPE 2. SEE WSDOT STD. PLAN B-30.30 FOR RECTANGULAR VANED GRATE. SEE WSDOT STD. PLAN B-30.60 FOR GRATE INLET ON CATCH BASIN - TYPE 2. SEE WSDOT STD. PLAN B-40.40 FOR FRAME AND DUAL VANED GRATE FOR GRATE INLET.
4. THE BOTTOM OF THE NW DITCH AND NE DITCH SHALL BE LOCATED AT THE DAYLIGHT LINE.

UTILITY NOTES

1. THE UTILITY PLAN DEPICTS THE GENERAL LAYOUT OF THE FRANCHISE UTILITIES CONDUITS FOR POWER AND COMMUNICATION.

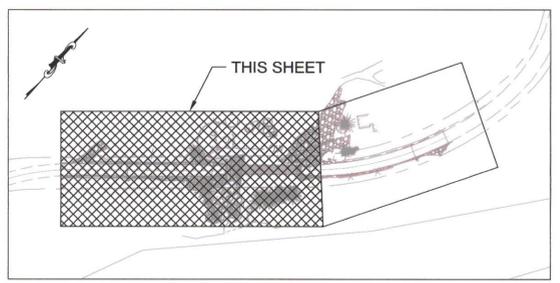
LEGEND:

- UP--- EXISTING UNDERGROUND POWER
- UT--- EXISTING UNDERGROUND COMMUNICATION
- ☒ EXISTING POWER BOX
- ☒ EXISTING COMMUNICATION BOX
- UP--- PROPOSED UNDERGROUND POWER BY OTHERS
- UT--- PROPOSED UNDERGROUND FIBER BY OTHERS
- ☒ PROPOSED POWER BOX BY OTHERS
- ☒ PROPOSED COMMUNICATION BOX BY OTHERS

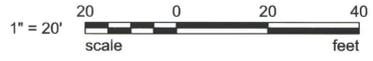
CONSTRUCTION NOTES

- 1 DRAINAGE V-DITCH PER DETAIL C ON SHEET C11
- 2 PROVIDE ETHAFOAM BETWEEN PIPE AND UTILITY TRENCH CONDUIT IF CROSSING IS LESS THAN 6 IN
- 3 TRANSITION FROM UNDERGROUND UTILITY TO CONDUIT INSIDE OF BRIDGE BARRIER
- 4 APPROXIMATE LOCATION OF PROPOSED POWER POLE WITH LUMINAIRE BY OTHERS
- 5 PIPE OUTFALL ARMORING PER DETAIL B ON SHEET C11. CONTRACTOR CAN UTILIZE EXISTING ROCK IF FIELD VERIFIED TO MEET ARMORING REQUIREMENTS
- 6 UTILITY INSTALLED BY OTHERS. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS
- 7 DITCH END PER DETAIL D ON SHEET C11

ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS, AND THEREFORE, SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. CONTRACTOR SHALL CONTACT "UTILITIES UNDERGROUND LOCATION CENTER" AT (1-800-424-5555) 48 HOURS MIN BEFORE DIGGING FOR LOCATE OF SUBSCRIBER UTILITIES.



KEYPLAN



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TDB PROJECT MANAGER	2/4/26 DATE
KLB DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 05_C08.dwg

COWLITZ COUNTY
 DEPARTMENT OF PUBLIC WORKS
 1600 13TH AVENUE SOUTH
 KELSO, WASHINGTON 98626

wsp
 WSP USA Inc.
 1300 SW 5TH AVE, Suite 3100
 Portland, OR 97201
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 FAX: 503-872-4101

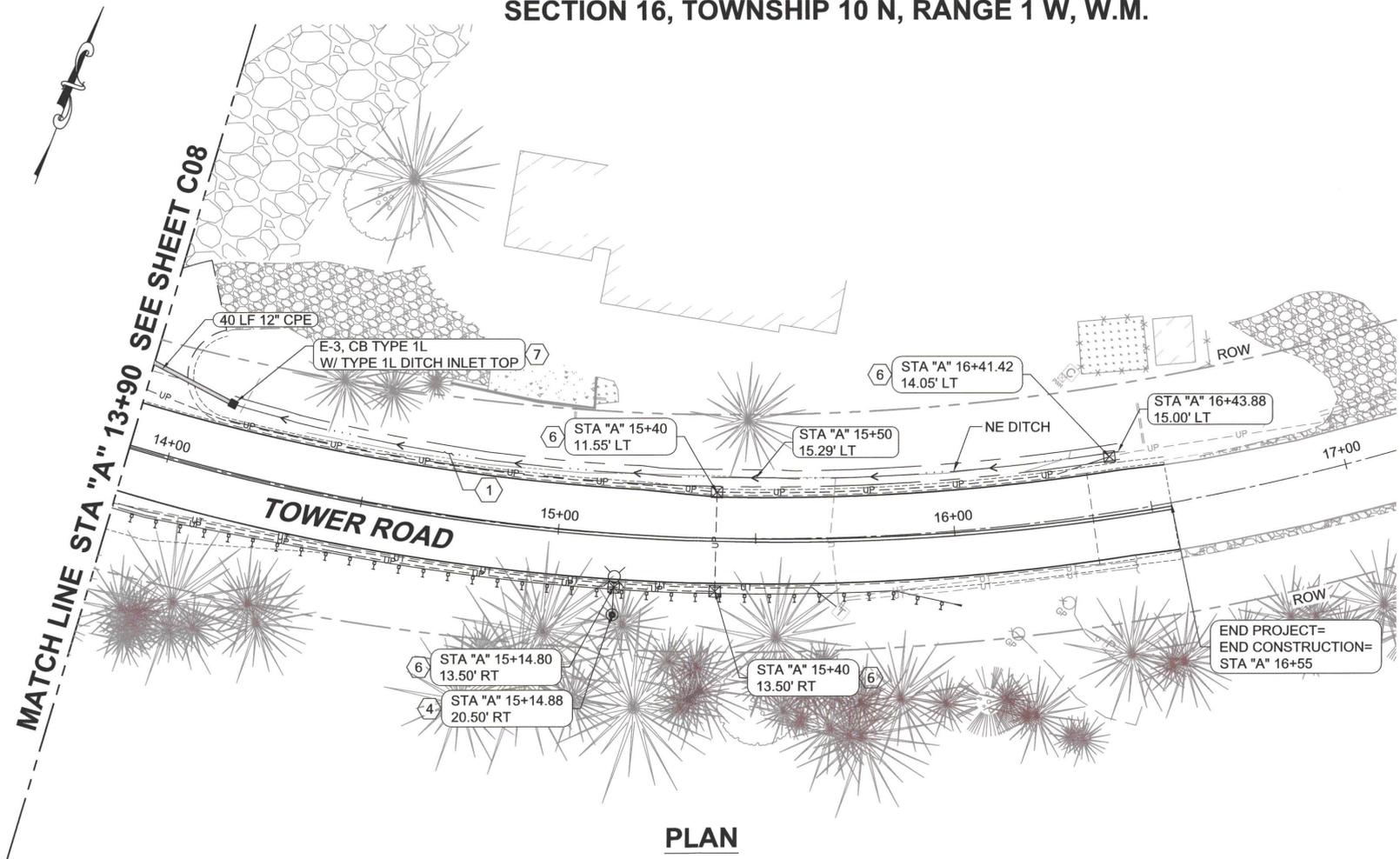
JOURDEN MAKIEN
 REGISTERED PROFESSIONAL ENGINEER
 2/10/2026

SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
DRAINAGE & UTILITY PLAN - SHEET 1

BID SET
 SHEET **C08**
 21 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

DRAINAGE NOTES

1. DRAINAGE STRUCTURE STATION AND OFFSET ARE TO CENTER OF STRUCTURE LID OR GRATE.
2. SEE SHEETS C10 FOR DRAINAGE PROFILES AND ADDITIONAL DRAINAGE INFORMATION.
3. SEE WSDOT STD. PLAN B-5.20 FOR CATCH BASIN TYPE 1. SEE WSDOT STD. PLAN B-5.40 FOR CATCH BASIN TYPE 1L. SEE WSDOT STD. PLAN B-10.20 FOR CATCH BASIN TYPE 2. SEE WSDOT STD. PLAN B-30.30 FOR RECTANGULAR VANED GRATE. SEE WSDOT STD. PLAN B-30.60 FOR GRATE INLET ON CATCH BASIN - TYPE 2. SEE WSDOT STD. PLAN B-40.40 FOR FRAME AND DUAL VANED GRATE FOR GRATE INLET.
4. THE BOTTOM OF THE NW DITCH AND NE DITCH SHALL BE LOCATED AT THE DAYLIGHT LINE.

UTILITY NOTES

1. THE UTILITY PLAN DEPICTS THE GENERAL LAYOUT OF THE FRANCHISE UTILITIES CONDUITS FOR POWER AND COMMUNICATION.

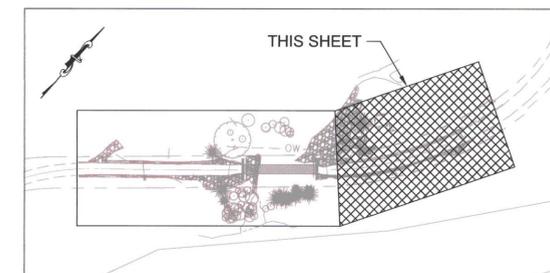
LEGEND:

- UP--- EXISTING UNDERGROUND POWER
- UT--- EXISTING UNDERGROUND COMMUNICATION
- ☒ EXISTING POWER BOX
- ☒ EXISTING COMMUNICATION BOX
- UP--- PROPOSED UNDERGROUND POWER BY OTHERS
- UT--- PROPOSED UNDERGROUND FIBER BY OTHERS
- ☒ PROPOSED POWER BOX BY OTHERS
- ☒ PROPOSED COMMUNICATION BOX BY OTHERS

CONSTRUCTION NOTES

- ① DRAINAGE V-DITCH PER DETAIL C ON SHEET C11
- ④ APPROXIMATE LOCATION OF PROPOSED POWER POLE WITH LUMINAIRE BY OTHERS
- ⑥ UTILITY INSTALLED BY OTHERS. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS
- ⑦ DITCH END PER DETAIL D ON SHEET C11

ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS, AND THEREFORE, SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. CONTRACTOR SHALL CONTACT "UTILITIES UNDERGROUND LOCATION CENTER" AT (1-800-424-5555) 48 HOURS MIN BEFORE DIGGING FOR LOCATE OF SUBSCRIBER UTILITIES.



KEYPLAN



TDB PROJECT MANAGER	2/4/26 DATE
KLB DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 05_C09.dwg



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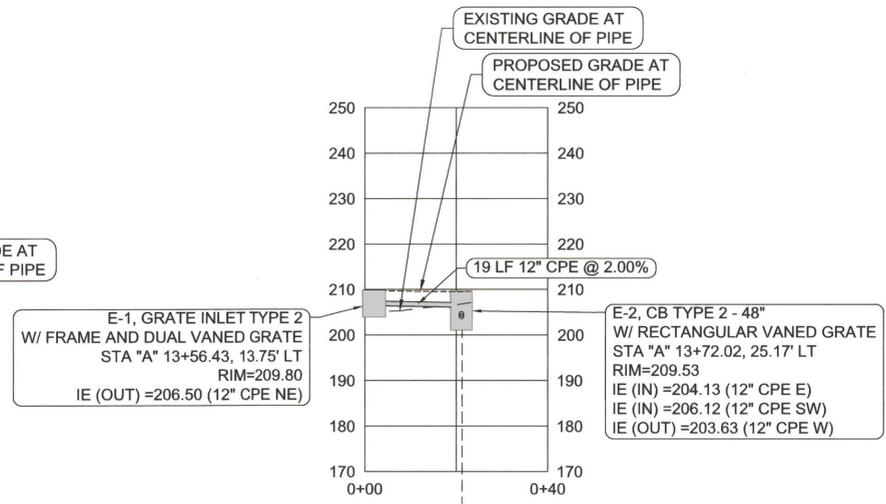
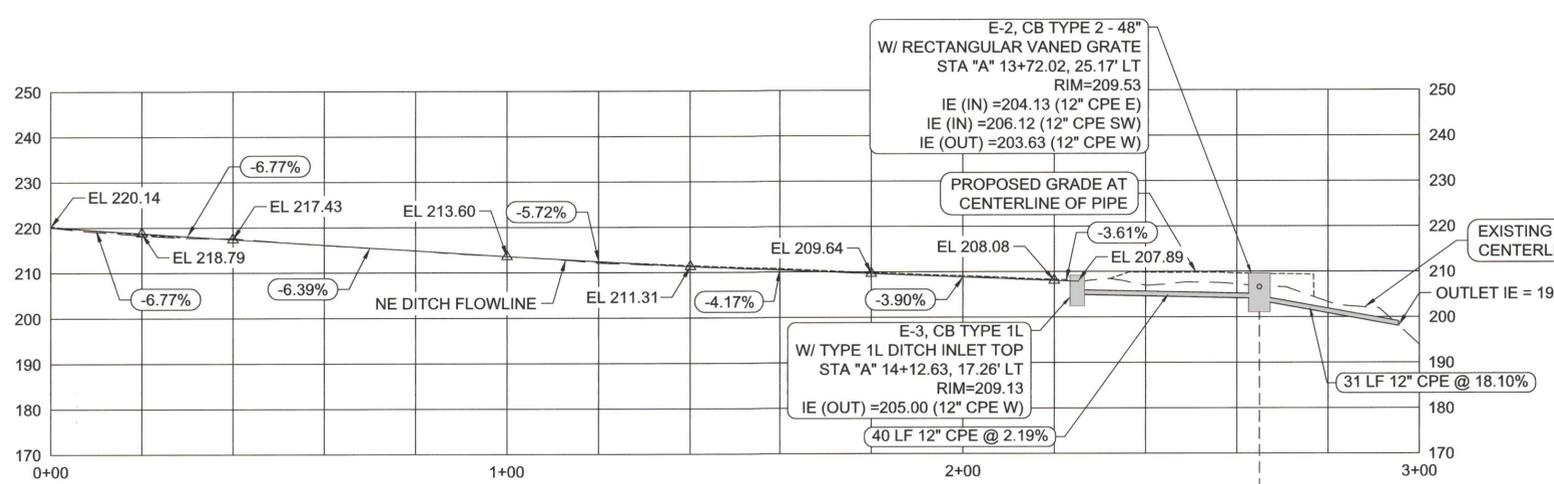
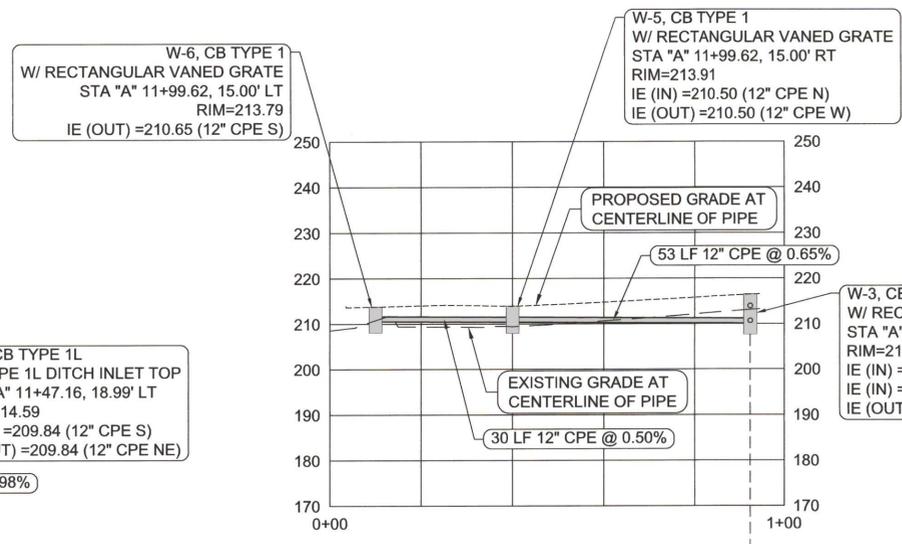
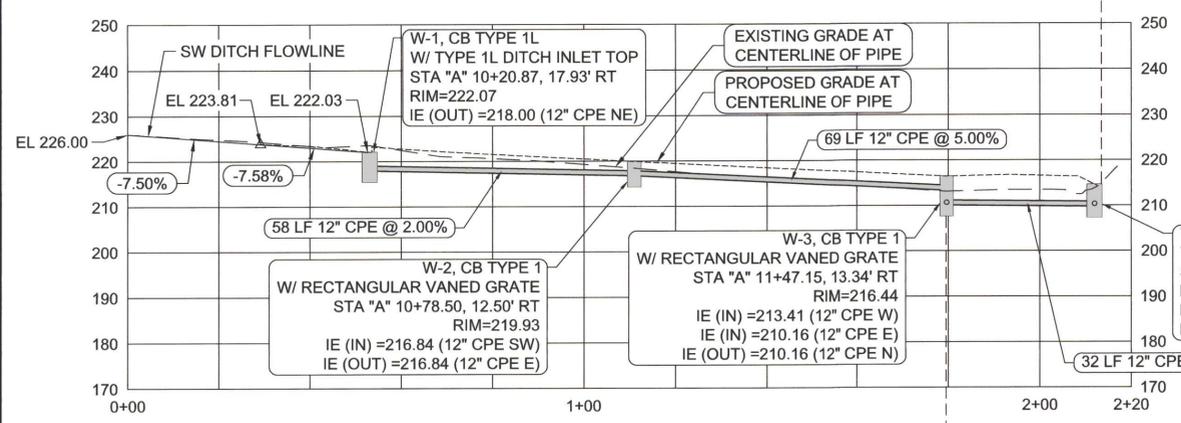
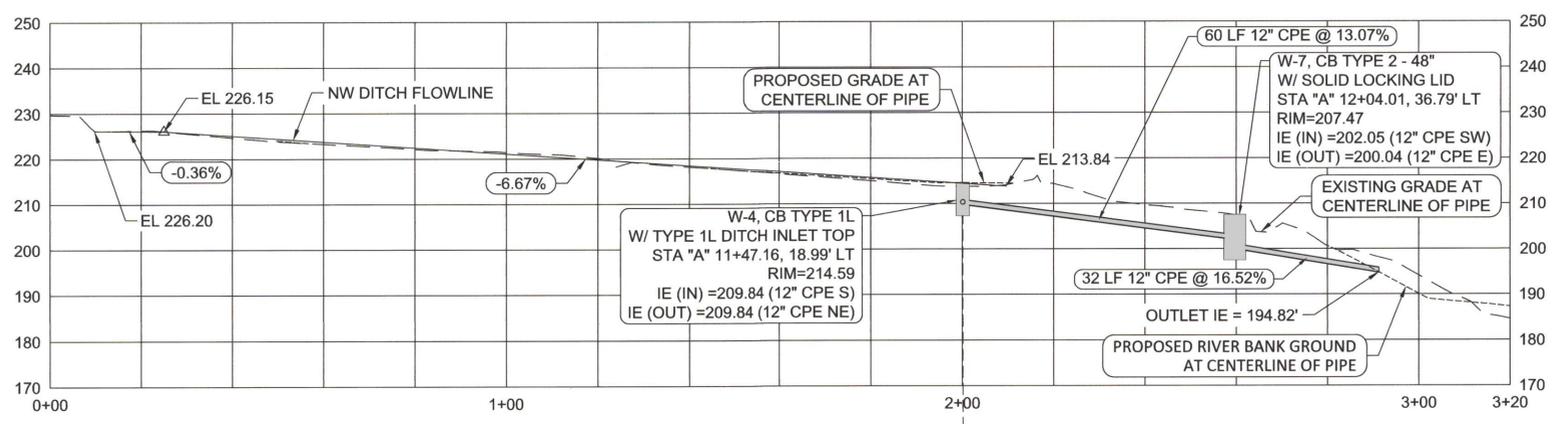
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
DRAINAGE & UTILITY PLAN - SHEET 2

BID SET
SHEET **C09**
22 OF 70

DRAINAGE NOTES

1. DRAINAGE STRUCTURE STATION AND OFFSET ARE TO CENTER OF STRUCTURE LID OR GRATE.
2. SEE SHEETS C08 & C09 FOR ADDITIONAL DRAINAGE INFORMATION.
3. THE BOTTOM OF THE NW DITCH AND NE DITCH SHALL BE LOCATED AT THE DAYLIGHT LINE.



TDB PROJECT MANAGER	2/4/26 DATE
KLB DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE
 VERT. SCALE: 1" = 20'
 PROJECT ID: 1801
 ROAD NO.: 51200
 COMPUTER FILE: 05_C10.dwg

COWLITZ COUNTY
 WASHINGTON

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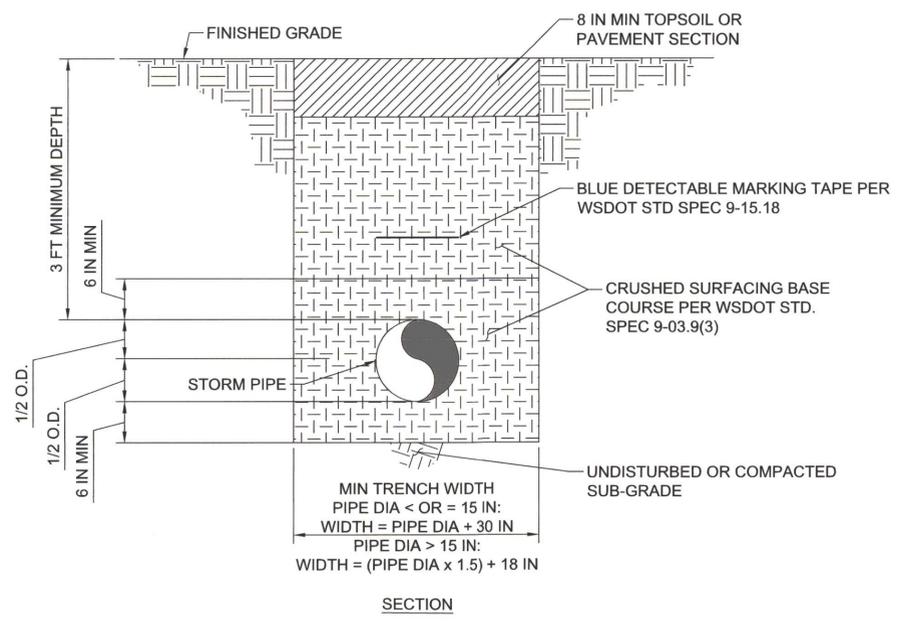


SEC 16 T 10 N R 1 W
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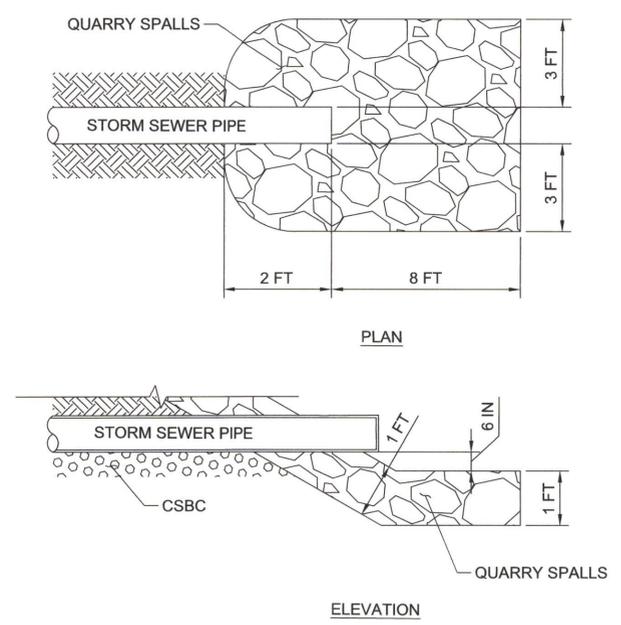
TOWER ROAD BRIDGE AT ROCK CREEK

DRAINAGE PROFILES

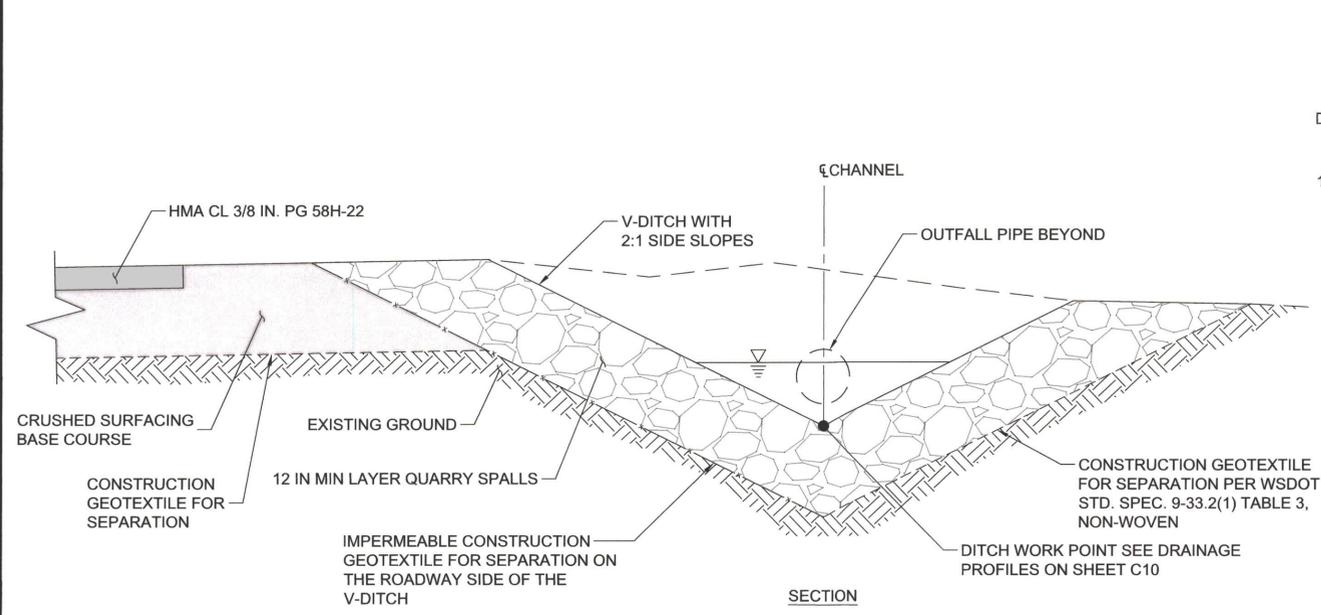
BID SET
 SHEET **C10**
 23 OF 70



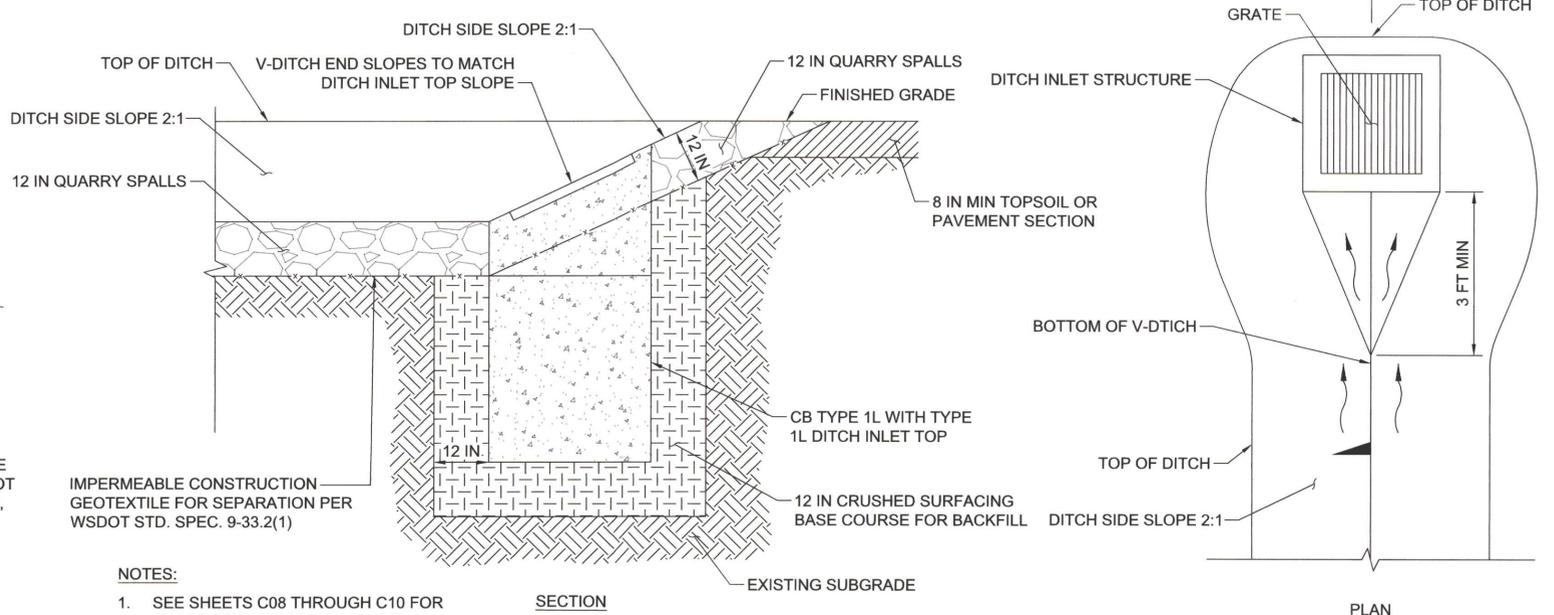
A STORM PIPE BEDDING DETAIL
SCALE: NTS



B PIPE OUTFALL ENERGY DISSIPATION PAD
SCALE: NTS



C V-DITCH DRAINAGE DETAIL
SCALE: NTS



NOTES:

1. SEE SHEETS C08 THROUGH C10 FOR ADDITIONAL STORM DRAINAGE INFORMATION.
2. SEE SHEETS C14 THROUGH C18 FOR GRADING INFORMATION.

D CB TYPE 1L WITH TYPE 1L DITCH INLET TOP DETAILS
SCALE: NTS

TDB PROJECT MANAGER	2/4/26 DATE
KLB DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE	VERT. SCALE: NONE
PROJECT ID: 1801	ROAD NO. : 51200
COMPUTER FILE: 05_C11.dwg	

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JOHNDEY MAKINEN
REGISTERED PROFESSIONAL ENGINEER
2/10/2026

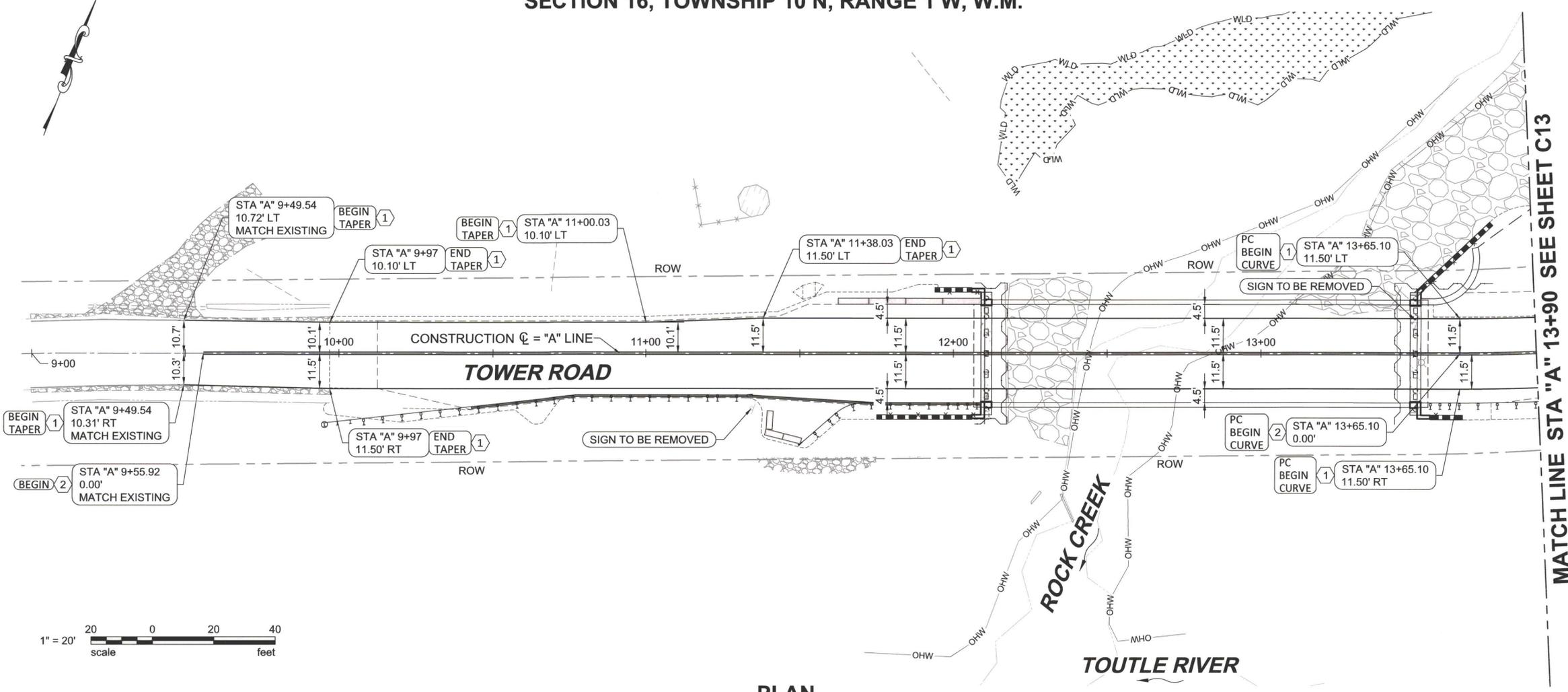
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
DRAINAGE DETAILS

BID SET
SHEET **C11**
24 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.

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PLAN

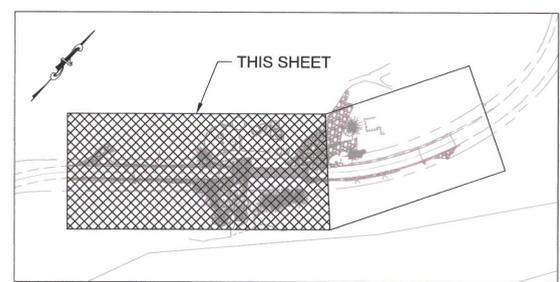
CONSTRUCTION NOTES

- 1 WHITE PAINT LANE LINE PER WSDOT STD. PLAN M-20.10-04
- 2 YELLOW PAINT DOUBLE CENTERLINE PER WSDOT STD. PLAN M-20.10-04

GENERAL NOTES

- 1. SEE C01 THROUGH C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
- 2. PERMANENT CHANNELIZATION MARKINGS SHALL ONLY BE INSTALLED AFTER THE FINAL ASPHALT WEARING COURSE IS PLACED. PERMANENT CHANNELIZATION MARKINGS SHALL NOT BE USED FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 3. REFER TO WSDOT STD. PLAN M-20.10-04 FOR LONGITUDINAL MARKING PATTERNS.

MATCH LINE STA "A" 13+90 SEE SHEET C13



KEYPLAN

Last Saved by: USDK70981 on: Feb 9, 2026 4:59 PM File: C:\Users\USDK70981\OneDrive\Projects - 2023\30901822\001\CADD\Drawings\C12.dwg

TDB PROJECT MANAGER	2/4/26 DATE
APJ DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 05_C12.dwg



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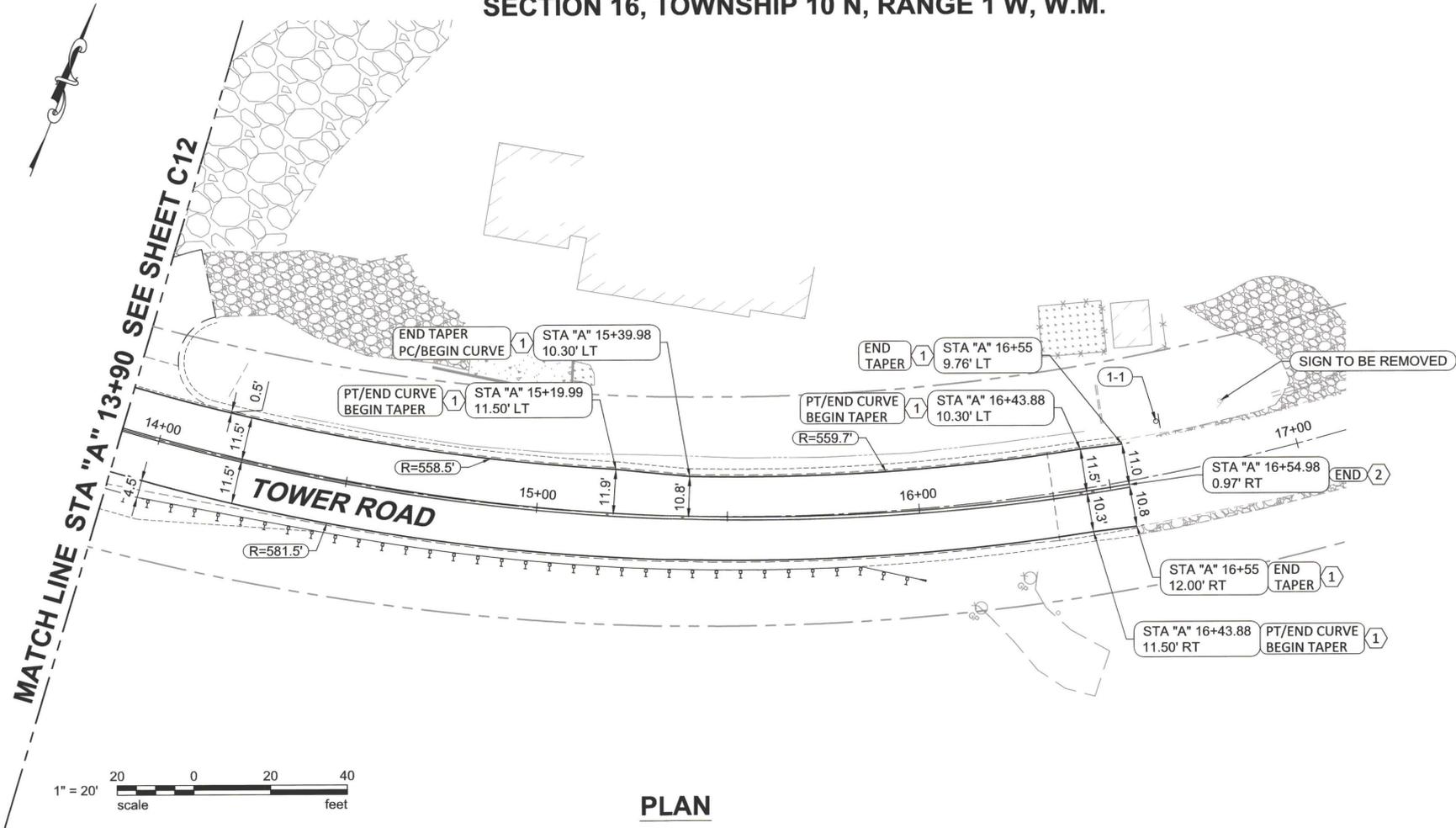


SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
 CHANNELIZATION & SIGNING PLAN - SHEET 1

BID SET
 SHEET C12
 25 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

CONSTRUCTION NOTES

- 1 WHITE PAINT LANE LINE PER WSDOT STD. PLAN M-20.10-04
- 2 YELLOW PAINT DOUBLE CENTERLINE PER WSDOT STD. PLAN M-20.10-04

GENERAL NOTES

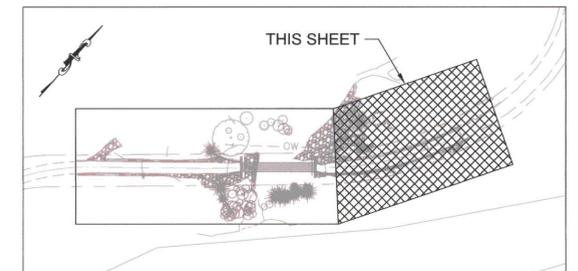
- 1. SEE C01 THROUGH C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
- 2. PERMANENT CHANNELIZATION MARKINGS SHALL ONLY BE INSTALLED AFTER THE FINAL ASPHALT WEARING COURSE IS PLACED. PERMANENT CHANNELIZATION MARKINGS SHALL NOT BE USED FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 3. REFER TO WSDOT STD. PLAN M-20.10-04 FOR LONGITUDINAL MARKING PATTERNS.



1 CUSTOM SIGN 1-1 FABRICATION DETAILS
SCALE: NTS

STREET SIGN SCHEDULE

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	SIGN LOCATION		SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH	CLEARANCE		REMARKS
			STATION	OFFSET	X	Y						V	W	
1-1	CUSTOM	"BLIND DRIVEWAY AHEAD"	"A" 16+65.00	14.0' L	30"	30"	IV	STANDARD	TIMBER	4X4	12.5'	7'-0"	12'-0"	SEE WSDOT STD PLANS G-20.10 AND G-22.10 FOR INSTALLATION DETAILS. SEE DETAIL 1, THIS SHEET FOR SIGN DETAILS.



KEYPLAN

TDB
PROJECT MANAGER
DATE 2/4/26

APJ
DRAWN BY
DATE 2/4/26

JDM
CHECKED BY
DATE 2/4/26

HORIZ. SCALE: 1" = 20'
VERT. SCALE: NONE

PROJECT ID: 1801
ROAD NO.: 51200

COMPUTER FILE: 05_C13.dwg



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SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE
AT ROCK CREEK

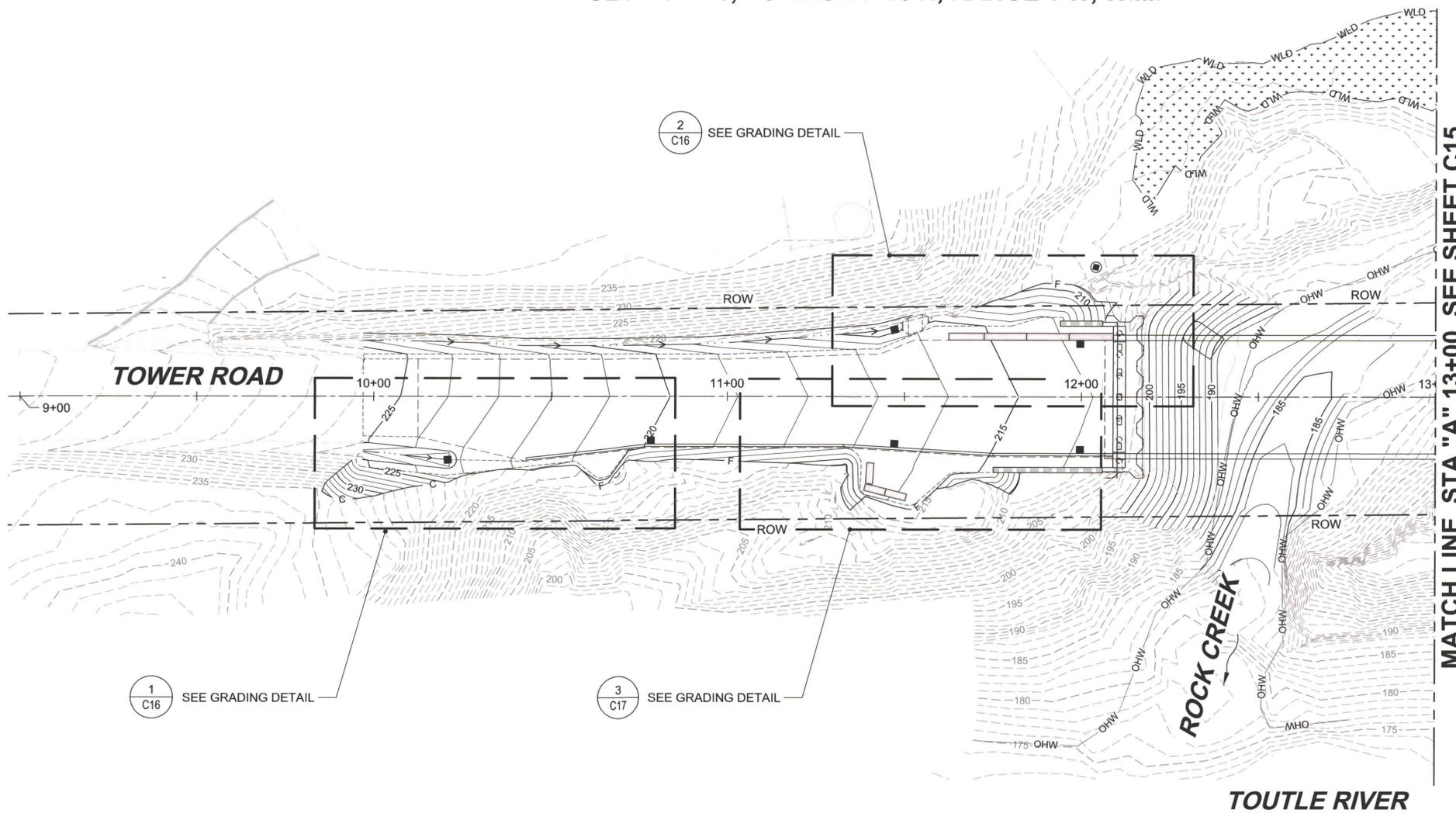
CHANNELIZATION & SIGNING PLAN -
SHEET 2

BID SET

SHEET
C13

26 OF 70

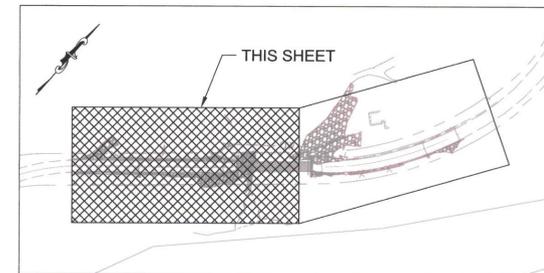
SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.



PLAN

GENERAL NOTES

1. SEE C01 AND C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. SEE SHEETS EN01 AND EN02 FOR ROCK CREEK STREAM GRADING.



KEYPLAN

TDB PROJECT MANAGER	2/4/26
DWA DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 05_C14.dwg



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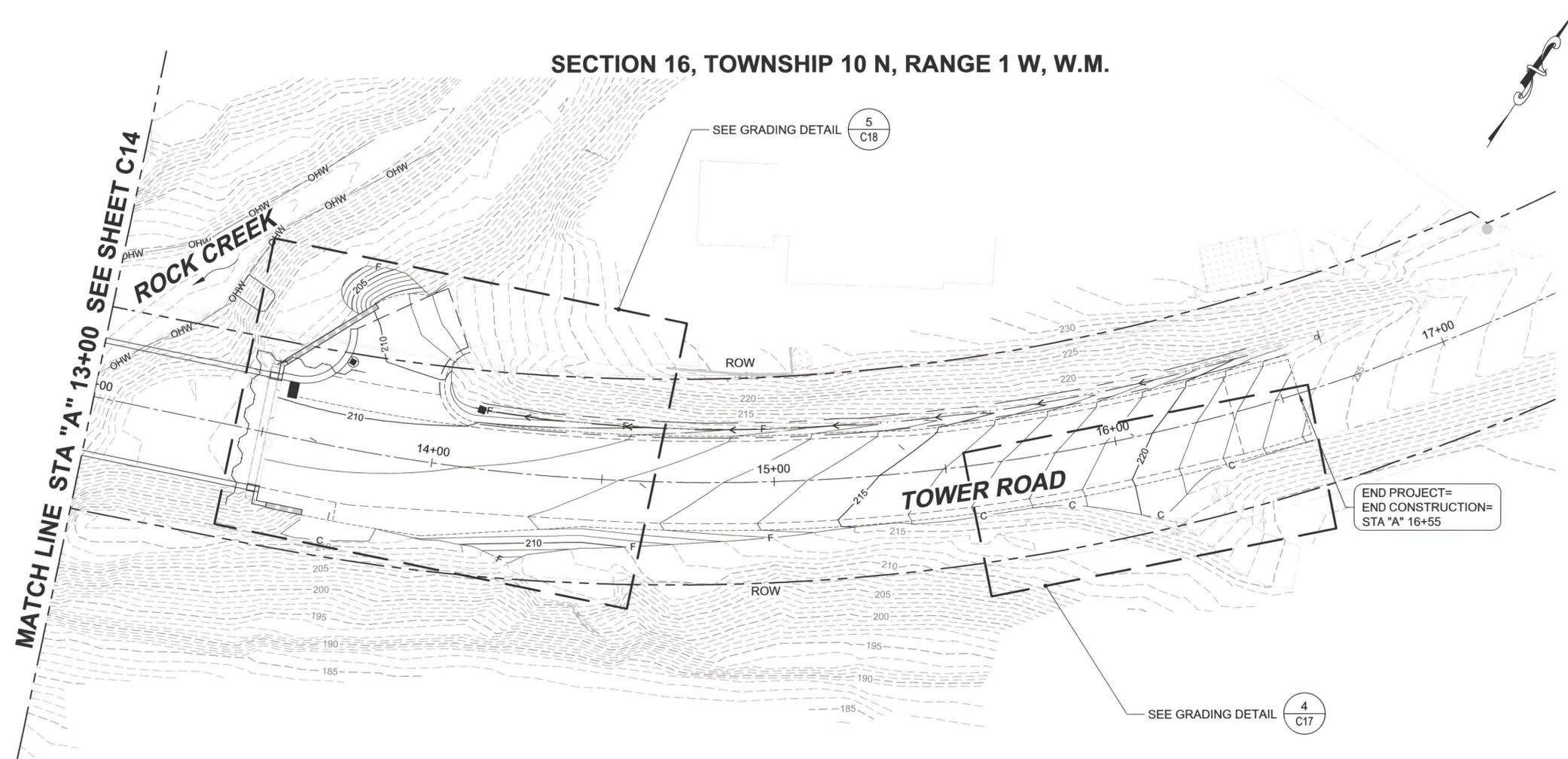
SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE
 AT ROCK CREEK
 GRADING PLAN - SHEET 1

BID SET
 SHEET
C14
 27 OF 70

SECTION 16, TOWNSHIP 10 N, RANGE 1 W, W.M.

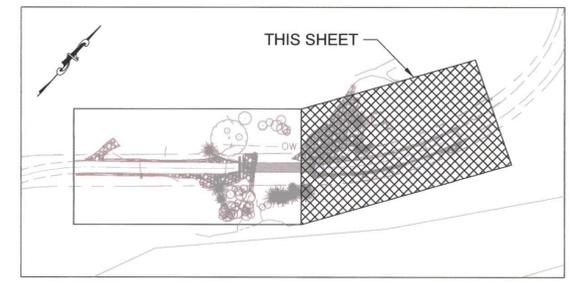
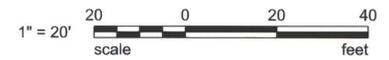
MATCH LINE STA "A" 13+00 SEE SHEET C14



PLAN

GENERAL NOTES

1. SEE C01 AND C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. SEE SHEETS EN01 AND EN02 FOR ROCK CREEK STREAM GRADING.



KEYPLAN

TDB PROJECT MANAGER	2/4/26
DWA DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

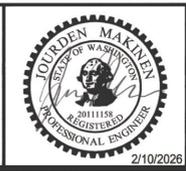
HORIZ. SCALE: 1" = 20'
 VERT. SCALE: NONE
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 ROAD NO. : 51200
 COMPUTER FILE: 05_C15.dwg



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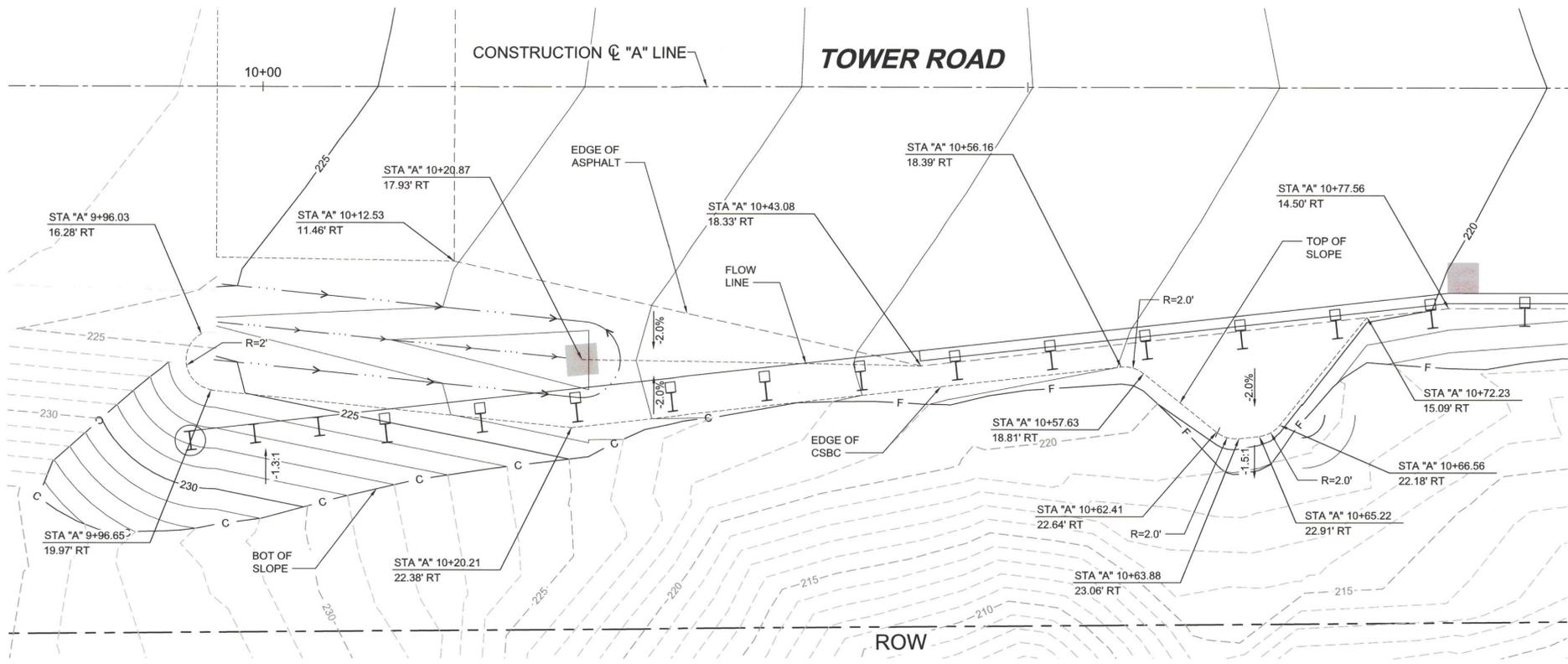
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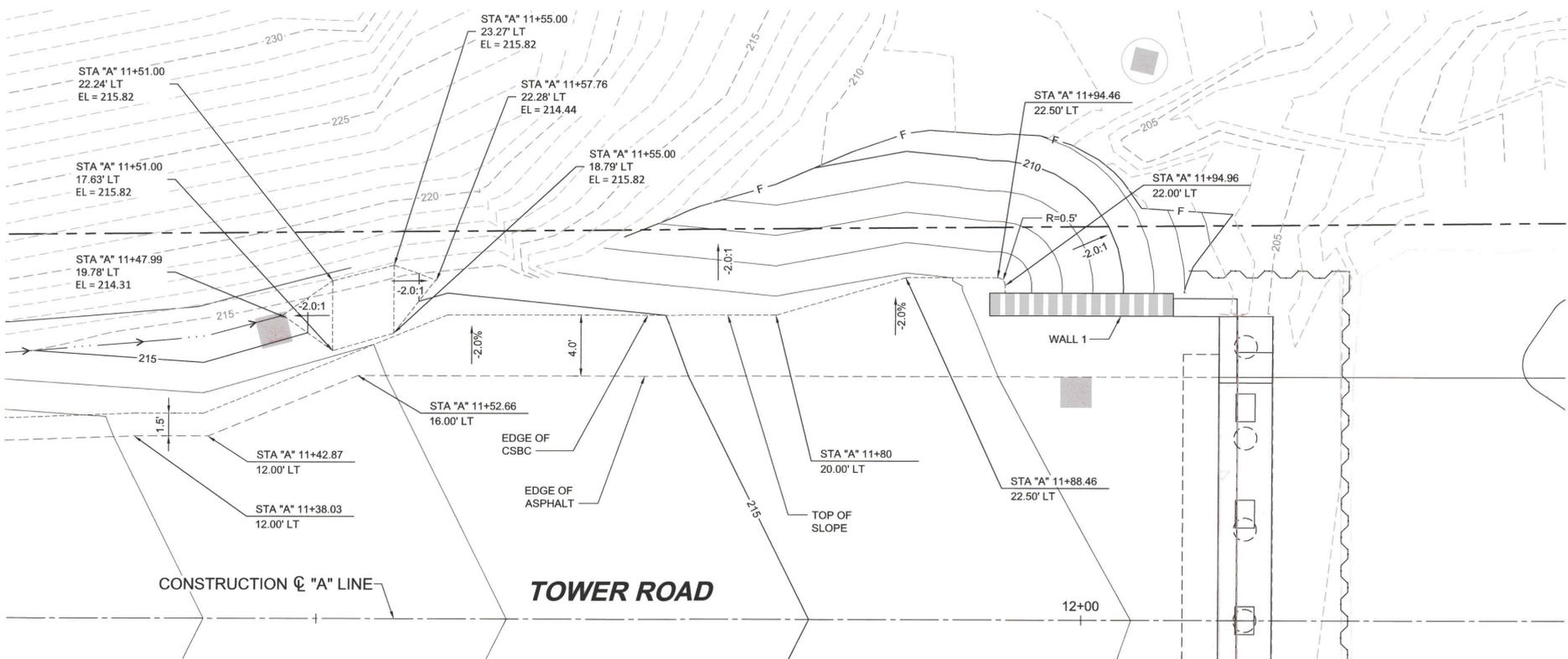
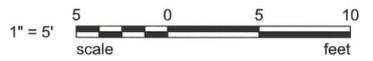
SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
 GRADING PLAN - SHEET 2

BID SET
 SHEET C15
 28 OF 70



1 GRADING DETAIL SW
C14



2 GRADING DETAIL NW
C14



GENERAL NOTES

1. SEE C01 AND C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. SEE SHEETS EN01 AND EN02 FOR ROCK CREEK STREAM GRADING.

TDB PROJECT MANAGER	2/4/26
DWA DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 5'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
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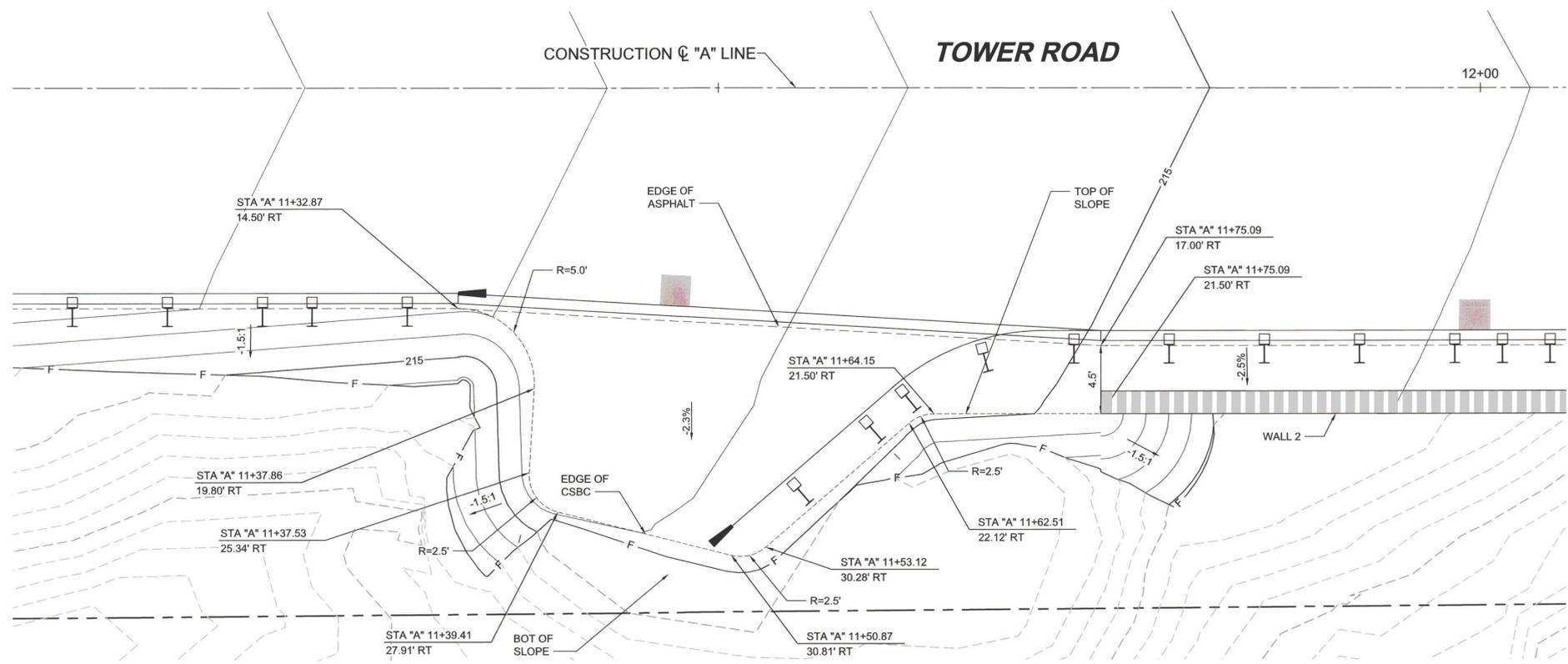
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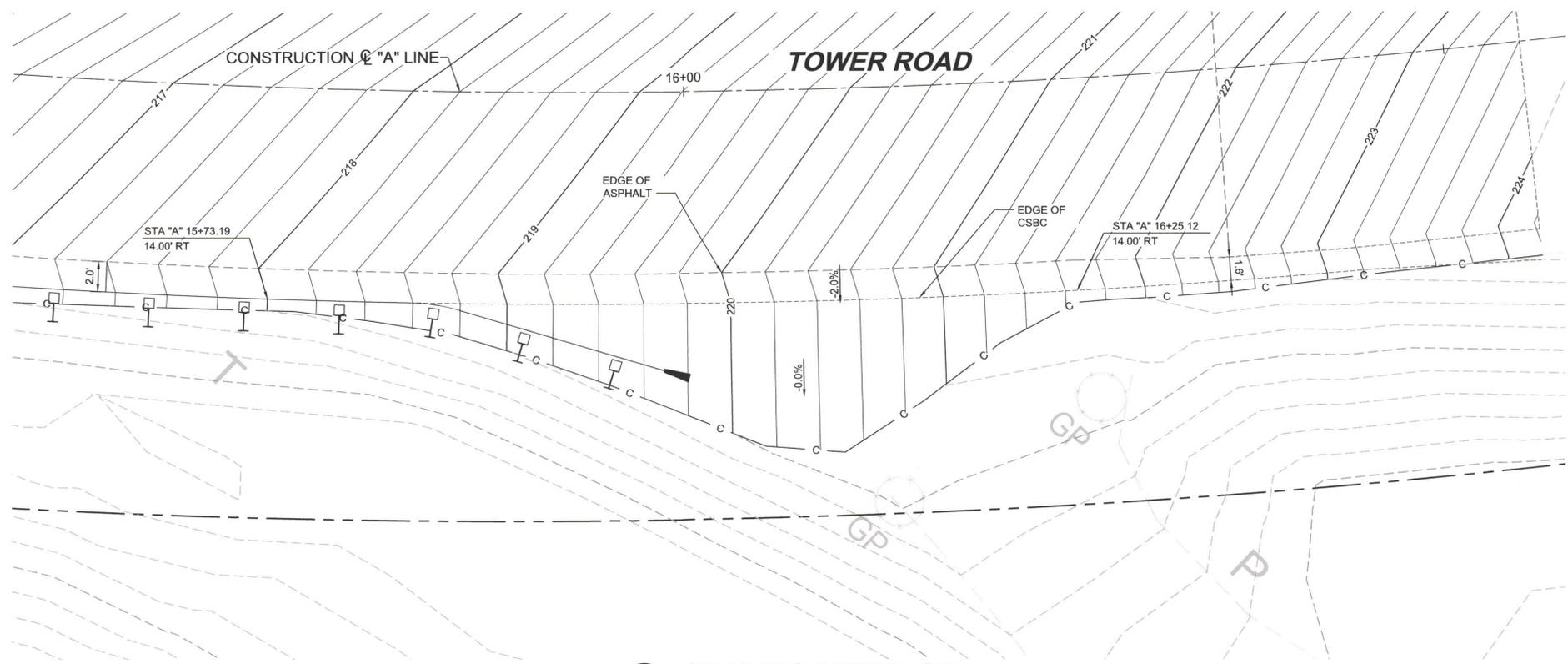
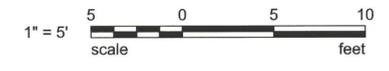
SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
 GRADING DETAILS - SHEET 1

BID SET
 SHEET C16
 29 OF 70



3 GRADING DETAIL SW
C14



4 GRADING DETAIL SE
C15



GENERAL NOTES

1. SEE C01 AND C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. SEE SHEETS EN01 AND EN02 FOR ROCK CREEK STREAM GRADING.

TDB PROJECT MANAGER	2/4/26 DATE
DWA DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 5'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 05_C17.dwg



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WSP USA Inc.
1300 SW 5TH AVE,
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FAX: 503-872-4101

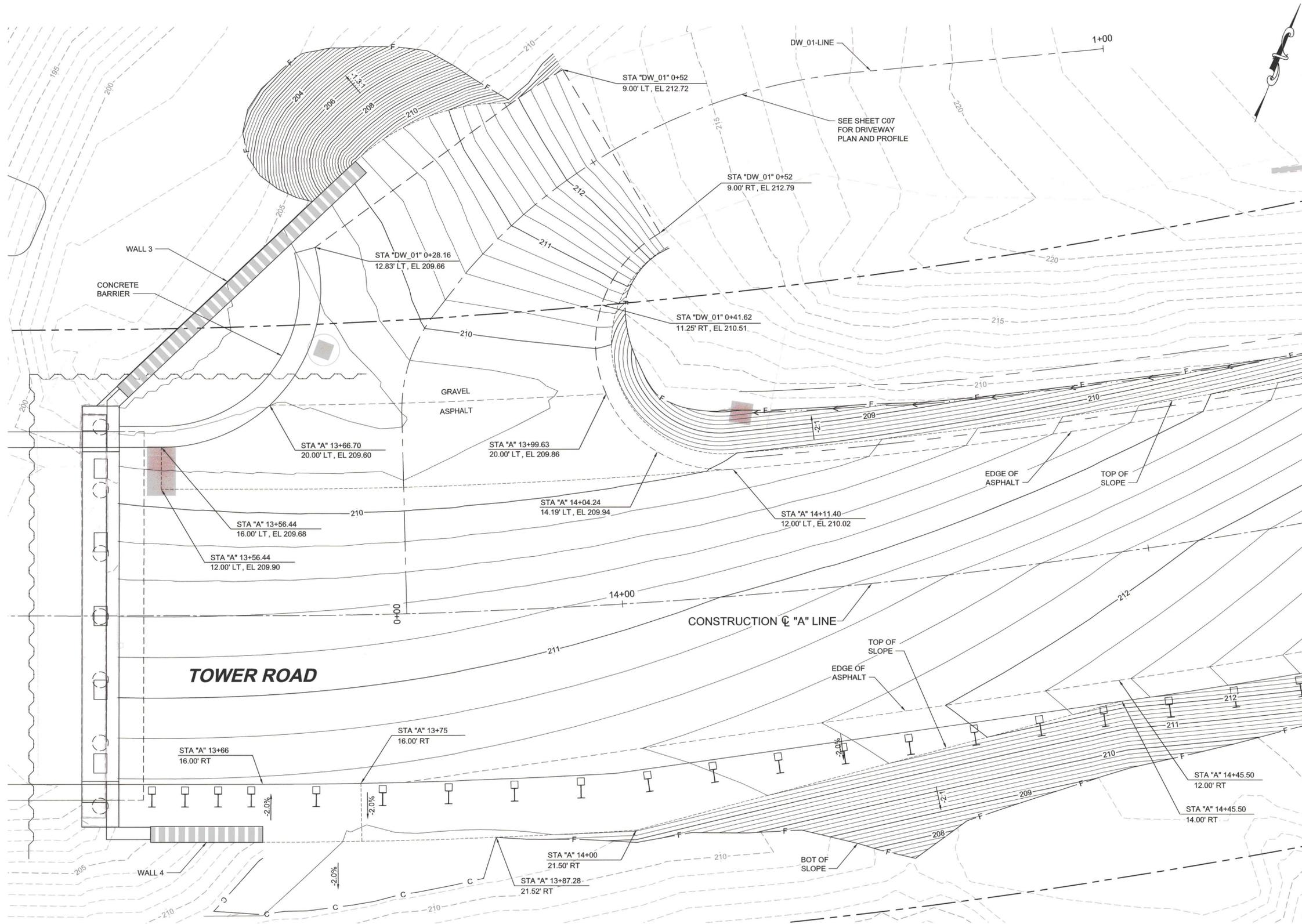


SEC 16 T 10 N R 1 W
CRP NO 788

**TOWER ROAD BRIDGE
AT ROCK CREEK**

GRADING DETAILS - SHEET 2

BID SET
SHEET
C17
30 OF 70



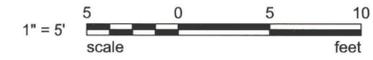
GENERAL NOTES

1. SEE C01 AND C04 FOR HMA PAVEMENT, SUBSURFACE, AND SURFACING DIMENSIONS.
2. SEE SHEETS C08 THROUGH C11 FOR STORM DRAINAGE INFORMATION.
3. SEE SHEETS S30 AND S31 FOR WALL PLAN & PROFILES.
4. SEE SHEETS EN01 AND EN02 FOR ROCK CREEK STREAM GRADING.

TOWER ROAD

CONSTRUCTION C "A" LINE

5 GRADING DETAIL EAST
C15



TDB PROJECT MANAGER	2/4/26
DWA DRAWN BY	2/4/26
JDM CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 5'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 05_C18.dwg



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CRP NO 788

**TOWER ROAD BRIDGE
AT ROCK CREEK**
GRADING DETAILS - SHEET 3

BID SET
SHEET
C18
31 OF 70

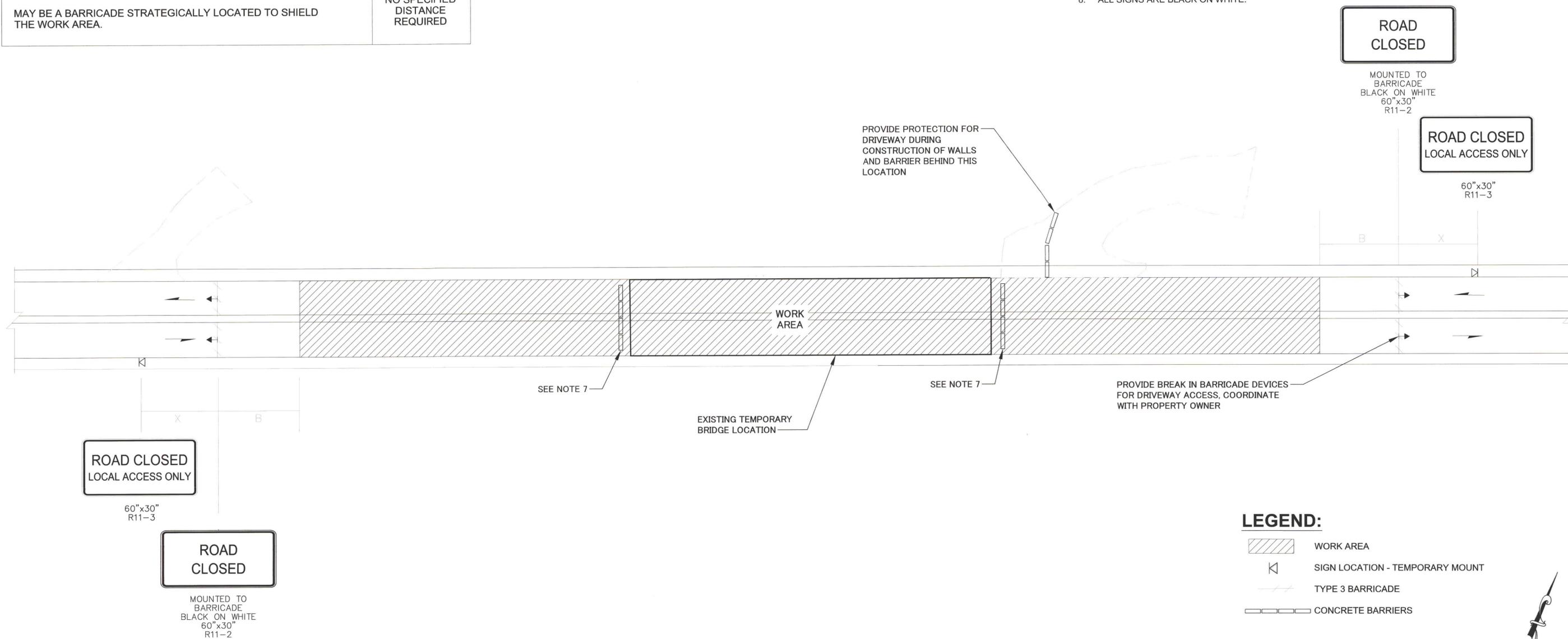
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR SHALL BE MOUNTED ON, OR ATTACHED TO, A HOST VEHICLE THAT COMPLIES WITH THE MANUFACTURER'S RECOMMENDED WEIGHT RANGE.										30 FEET MIN. TO 100 FEET MAX.
TYPE 3 BARRICADE MAY BE A BARRICADE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										NO SPECIFIED DISTANCE REQUIRED

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 INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

GENERAL NOTES

1. PLAN VIEW ON THIS SHEET IS PICTORIAL ONLY, NO HORIZONTAL CURVES ARE SHOWN.
2. ROAD IS POSTED AT 40 MPH.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL STATE & COUNTY TRAFFIC SIGNAGE AND/OR FLAGGING REQUIREMENTS.
4. COWLITZ COUNTY TO INSTALL AND MAINTAIN DETOUR ROUTE SIGNAGE.
5. PROJECT SITE SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO SITE CONDITIONS AS NEEDED. SEE SIGN SPACING TABLE.
6. LOCATIONS OF PROJECT WORK AND EXISTING CONDITIONS ARE PICTORIAL AND APPROXIMATE. TRAFFIC CONTROL MEASURES SHOULD BE FIELD COORDINATED.
7. CONTRACTOR SHALL PLACE CONCRETE BARRIERS ACROSS THE ROADWAY AT THE BRIDGE LOCATION ONCE THE TEMPORARY BRIDGE IS REMOVED.
8. ALL SIGNS ARE BLACK ON WHITE.



TOWER ROAD – ROAD CLOSURE TRAFFIC CONTROL PLAN

NOT TO SCALE

TDB PROJECT MANAGER	2/4/26 DATE
APJ DRAWN BY	2/4/26 DATE
JDM CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 06_TC01.dwg



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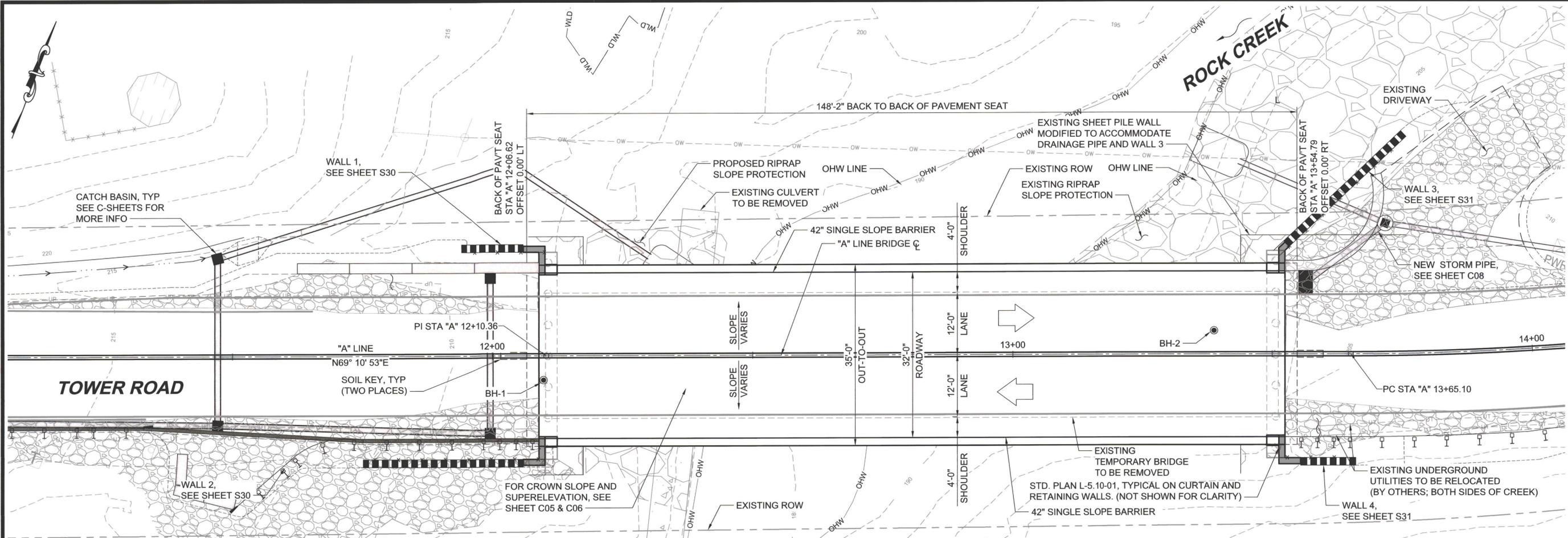


SEC 16 T 10 N R 1 W
CRP NO 788

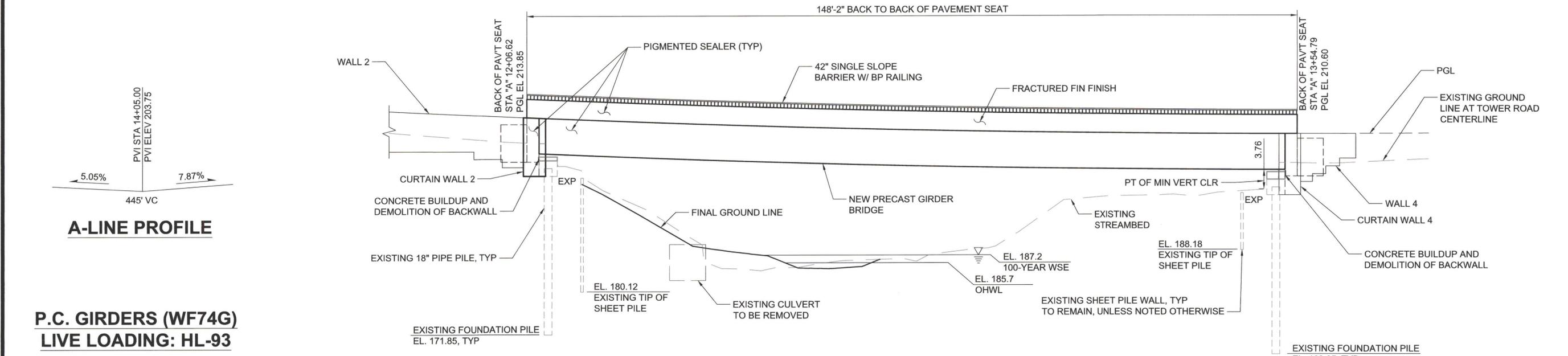
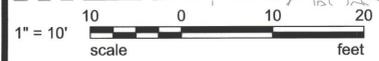
**TOWER ROAD BRIDGE
AT ROCK CREEK**

TRAFFIC CONTROL PLAN

BID SET
SHEET
TC01
32 OF 70



PLAN VIEW
SCALE: 1" = 10'



ELEVATION
HORIZ & VERT SCALE: 1" = 10'

A-LINE PROFILE

P.C. GIRDERS (WF74G)
LIVE LOADING: HL-93

NOTE:
EXP = EXPANSION BEARING
FIX = FIXED BEARING

TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

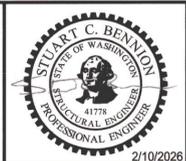
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 07_S01.dwg



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SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
BRIDGE PLAN & ELEVATION

BID SET
SHEET **S01**
33 OF 70

STRUCTURAL NOTES:

SPECIFICATION & DESCRIPTION:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. DATED 2026, (ENGLISH EDITION) AND THE SPECIAL PROVISIONS.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 9TH EDITION 2020, AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.

LOADING/MISCELLANEOUS:

3. SEISMIC DESIGN OF THE STRUCTURE IS IN ACCORDANCE WITH THE SPECIFICATIONS IN NOTE 2 ABOVE, USING AN ACCELERATION COEFFICIENT OF 0.31, A SITE CLASS C, AND SEISMIC PERFORMANCE ZONE 4.
4. THE BRIDGE HAS BEEN DESIGNED FOR HL-93 LOADING ACCORDING TO THE SPECIFICATIONS IN NOTE 2 ABOVE.
5. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS 5000.
6. THE NUMBER AND THE LENGTH OF REINFORCING BARS SHALL BE DETERMINED BY THE CONTRACTOR FROM THE PLANS. ALL REINFORCING BARS SHALL BE ASTM A 615 UNLESS SHOWN OTHERWISE. FOR HOOKS AND BENDS ON THE REINFORCING BARS, USE STIRRUPS/TIE HOOK AND BEND DIMENSIONS IF REINFORCEMENT SPECIFIES A STIRRUP OR TIE, OTHERWISE USE STANDARD HOOK AND BEND DIMENSIONS, UNLESS NOTED OTHERWISE. ALL REINFORCING STEEL TO BE EPOXY COATED IS DESIGNATED BY AN ∇ AFTER THE BAR MARK.
7. THE FOLLOWING LAP SPLICE LENGTHS SHALL BE USED UNLESS SHOWN OTHERWISE.

REINFORCING SPLICE LENGTHS (CLASS B) GRADE 60 F'c=4.0 ksi							
BAR SIZE	#3	#4	#5	#6	#7	#8	#9
UNCOATED	1'-8"	2'-1"	2'-8"	3'-2"	3'-7"	4'-7"	5'-9"
EPOXY COATED	1'-11"	2'-6"	3'-2"	3'-9"	4'-4"	5'-5"	7'-0"

SPLICE LENGTHS SHALL BE INCREASED BY 40% WHERE MORE THAN 12" OF FRESH CONCRETE IS PLACED BELOW THE BARS.

8. UNLESS OTHERWISE SHOWN IN THE PLANS, THE MINIMUM CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 3 INCHES AT THE BOTTOM OF THE PILE CAPS, 2 INCHES ON THE SIDE AND BOTTOM OF DIAPHRAGMS/ABUTMENTS, AND 1-1/2 INCHES AT ALL OTHER LOCATIONS. EDGES OF CONCRETE THAT WILL BE EXPOSED UPON COMPLETION OF THE STRUCTURE SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.
9. ALL EXPOSED CONCRETE SURFACES TO RECEIVE A CLASS 1 FINISH UNLESS SHOWN OTHERWISE ON THE PLANS.
10. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR.
11. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE SHOWN.
12. SEE SHEET C05 & C06 FOR SUPER-ELEVATION DIAGRAM.

LEGEND:

-  IDENTIFIES SECTION, VIEW OR DETAIL
-  TAKEN OR SHOWN ON BRIDGE SHEET
-  TAKEN OR SHOWN ON THE SAME BRIDGE SHEET

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE VERT. SCALE: NONE
PROJECT ID: 1801 ROAD NO. : 51200
COMPUTER FILE: 07_S02.dwg



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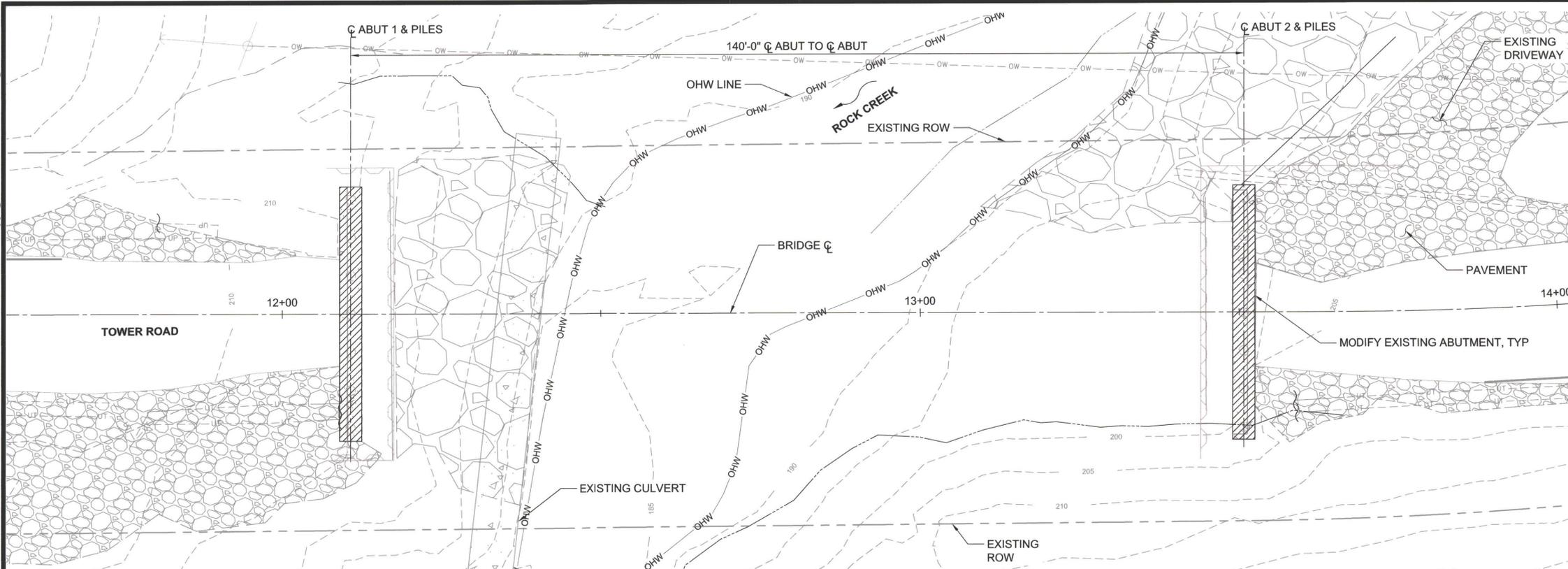


SEC 16 T 10 N R 1 W
 CRP NO 788

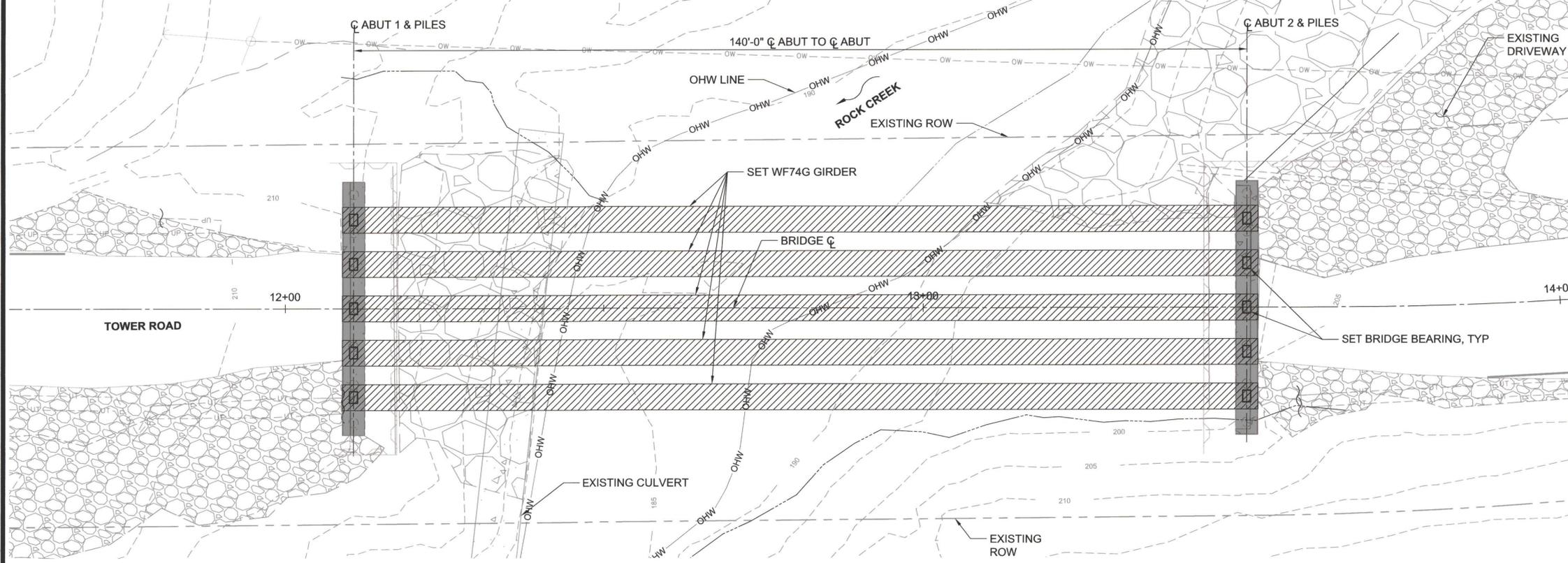
TOWER ROAD BRIDGE
 AT ROCK CREEK

STRUCTURAL NOTES

BID SET
 SHEET
S02
 34 OF 70



PHASE 1 PLAN VIEW
SCALE: 1" = 10'

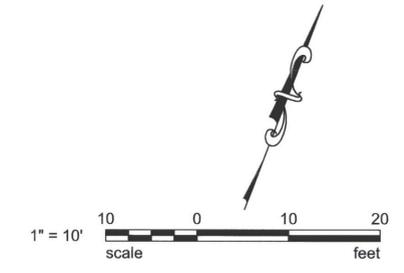


PHASE 2 PLAN VIEW
SCALE: 1" = 10'

STAGING NOTES:

- PHASE 1:**
1. REMOVE AND SALVAGE (PER SPECIFICATIONS) THE EXISTING TEMPORARY BRIDGE (NOT SHOWN).
 2. DEMOLISH EXISTING BACKWALL AND ROUGHEN TOP SURFACE OF ABUTMENT.
 3. CAST ABUTMENT BUILD-UP.
 4. INSTALL GROUT PADS

- PHASE 2:**
1. SET BRIDGE BEARINGS.
 2. SET WF74G GIRDERS.



TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 10'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S03.dwg



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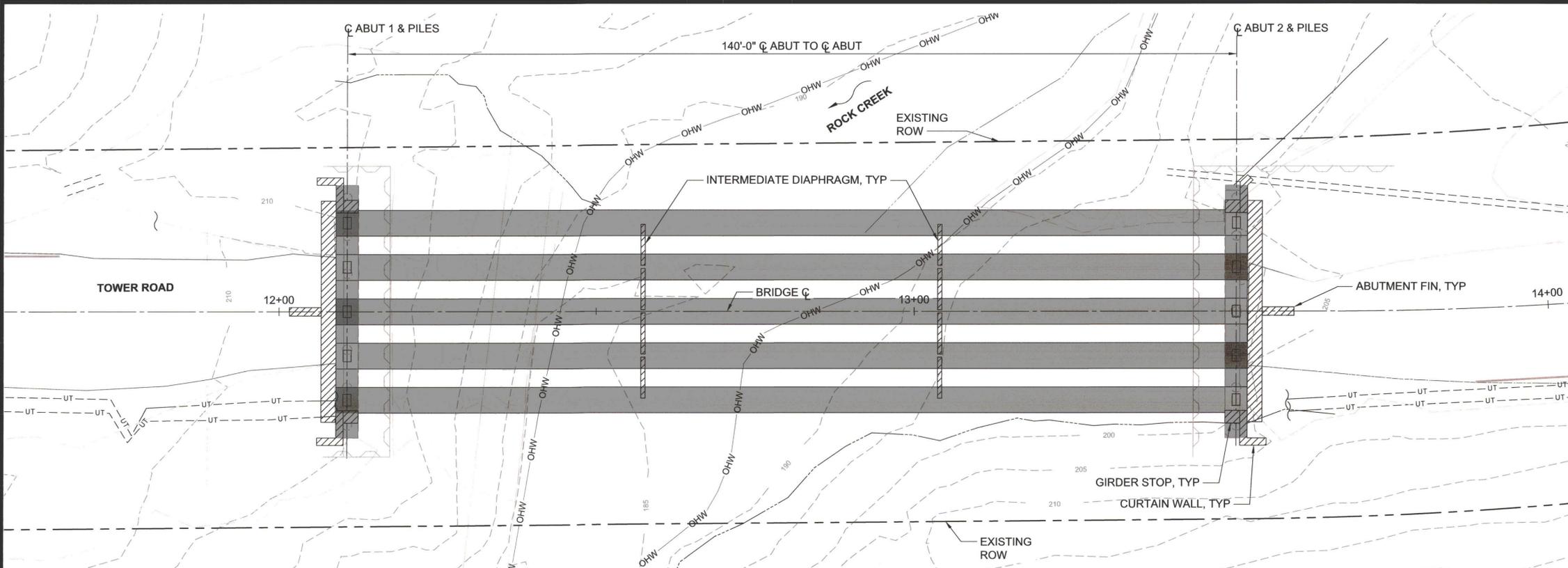
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Portland, OR 97201
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FAX: 503-872-4101



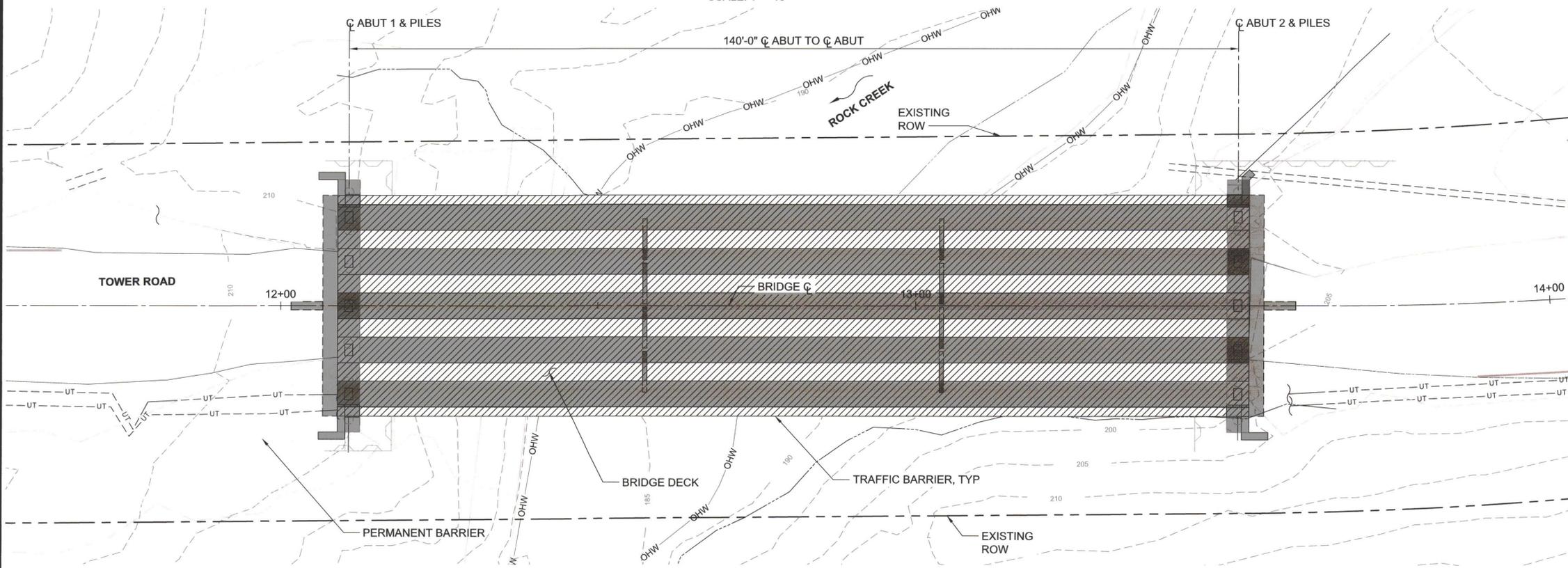
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
BRIDGE CONSTRUCTION SEQUENCE - SHEET 1

BID SET
SHEET S03
35 OF 70



PHASE 3 PLAN VIEW
SCALE: 1" = 10'



PHASE 4 PLAN VIEW
SCALE: 1" = 10'

STAGING NOTES:

PHASE 3:

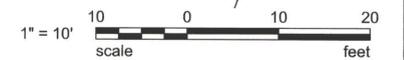
1. CAST INTERMEDIATE DIAPHRAGMS.
2. CAST END DIAPHRAGMS AND ABUTMENT FIN.
3. CONSTRUCT CURTAIN WALLS AND GIRDER STOPS.

PHASE 4:

1. CAST BRIDGE DECK.
2. CAST TRAFFIC BARRIERS.

NOTES:

1. SEQUENCE AND WORK FOR FORMWORK, TEMP. STRAND CUTTING, DECK PLACEMENT METHODS, SURVEYING, AND OTHER WORK ELEMENTS NOT LISTED IN THESE SUGGESTED SEQUENCES ARE TO BE PERFORMED UNDER DIRECTION OF THE MANUFACTURE'S AND CONTRACTOR'S MEANS AND METHODS AS APPROVED IN THE SUBMITTAL PROCESS.



TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ. SCALE: 1" = 10'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S04.dwg



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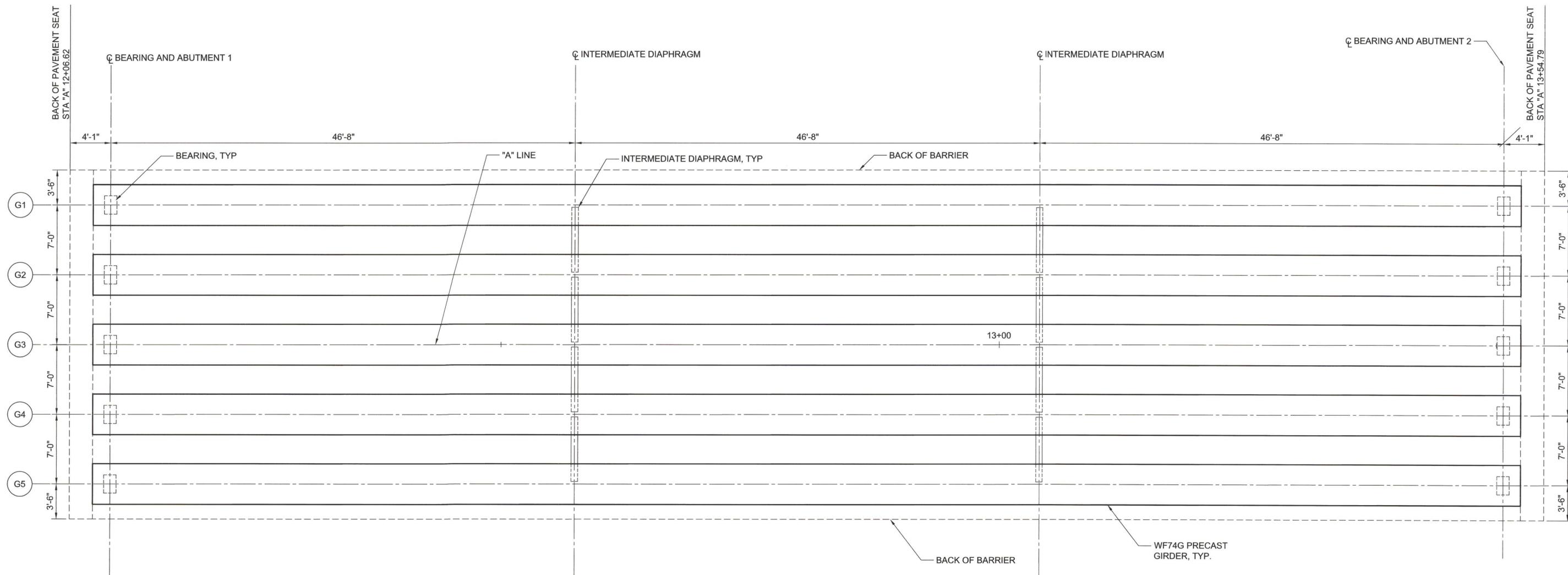
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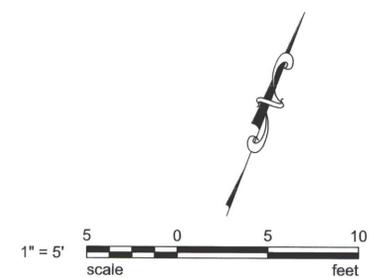
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
BRIDGE CONSTRUCTION SEQUENCE - SHEET 2

BID SET
SHEET **S04**
36 OF 70



FRAMING PLAN
SCALE: 1" = 5'



Last Saved by: USDA709051 on: Feb 9, 2026 5:02 PM File: C:\Users\USK66757\WSP\0365\Portland Projects - 2023\30901822001\CADD\Drawings\S05.dwg

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 5'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S05.dwg



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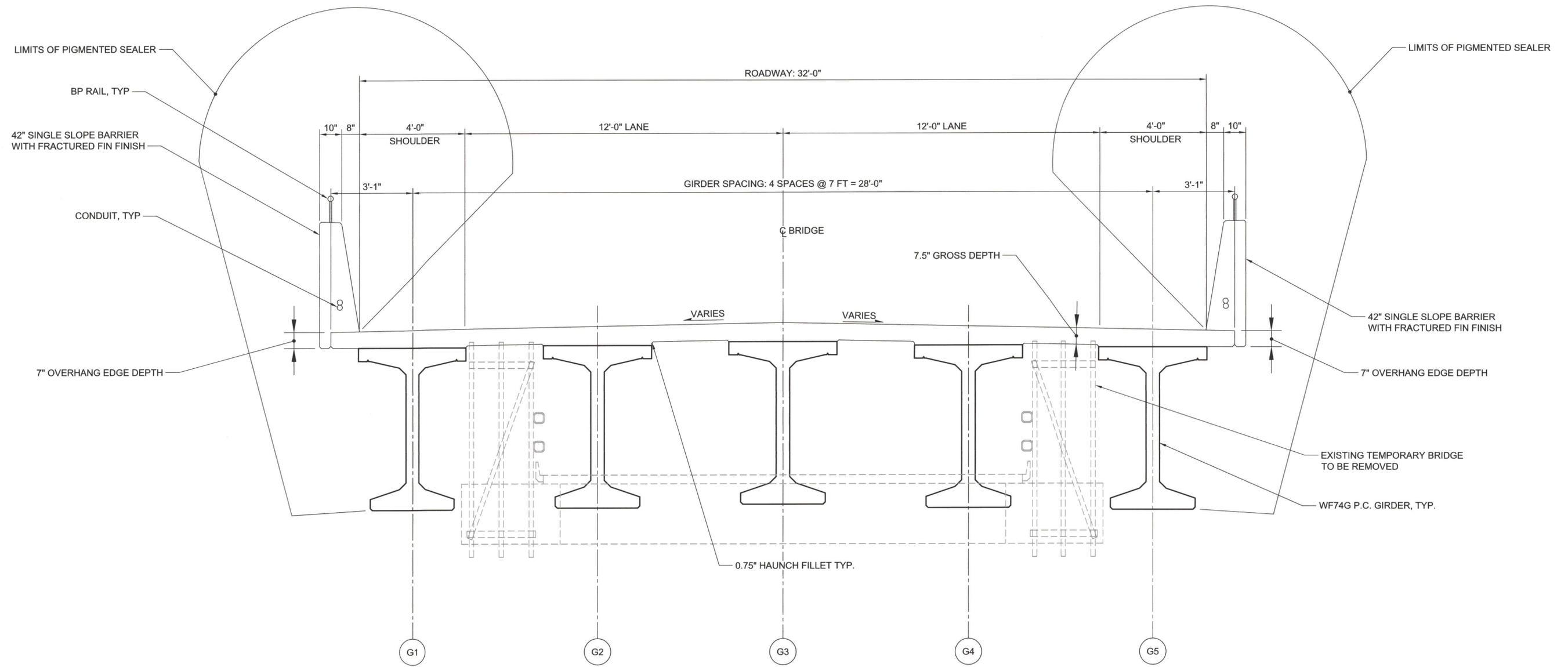
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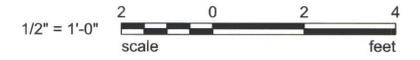
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CRP NO 788

TOWER ROAD BRIDGE
AT ROCK CREEK
BRIDGE FRAMING PLAN

BID SET
SHEET **S05**
37 OF 70



TYPICAL SECTION
 SHOWN NEAR MIDSPAN
 SCALE: 1/2" = 1'



TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ. SCALE: 1/2" = 1'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S06.dwg

COWLITZ COUNTY WASHINGTON

DEPARTMENT OF PUBLIC WORKS

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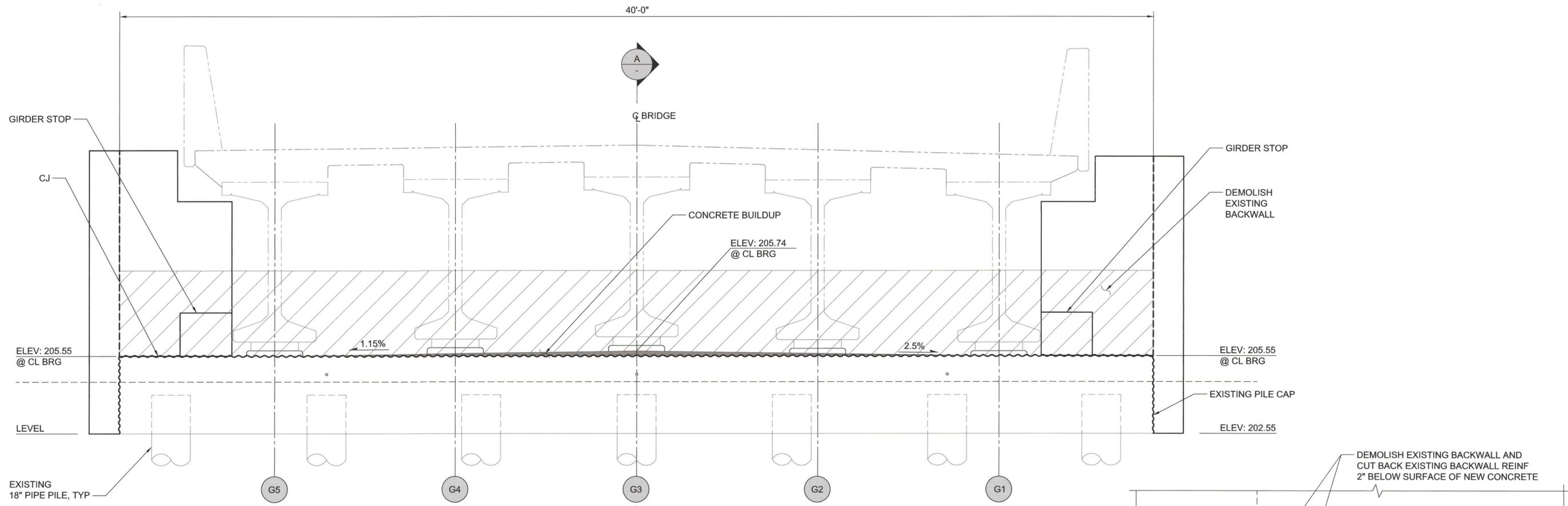
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STUART G. BENJONSON
 STATE OF WASHINGTON
 PROFESSIONAL ENGINEER
 4178
 2/10/2026

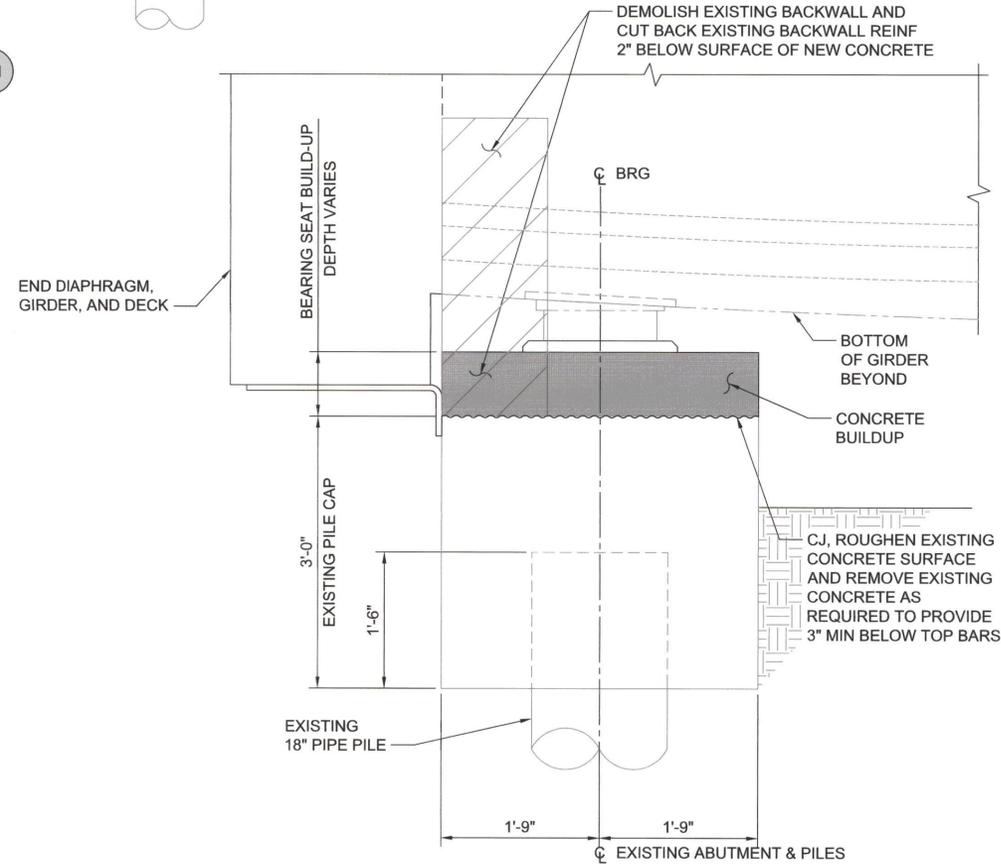
**SEC 16 T 10 N R 1 W
 CRP NO 788**

**TOWER ROAD BRIDGE
 AT ROCK CREEK**

TYPICAL BRIDGE CROSS SECTION



ABUTMENT 1 ELEVATION
 SCALE: 1/2" = 1'-0"
 LOOKING BACK ON STATION



SECTION - ABUTMENT 1
 SCALE: 1" = 1'-0"

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S07.dwg



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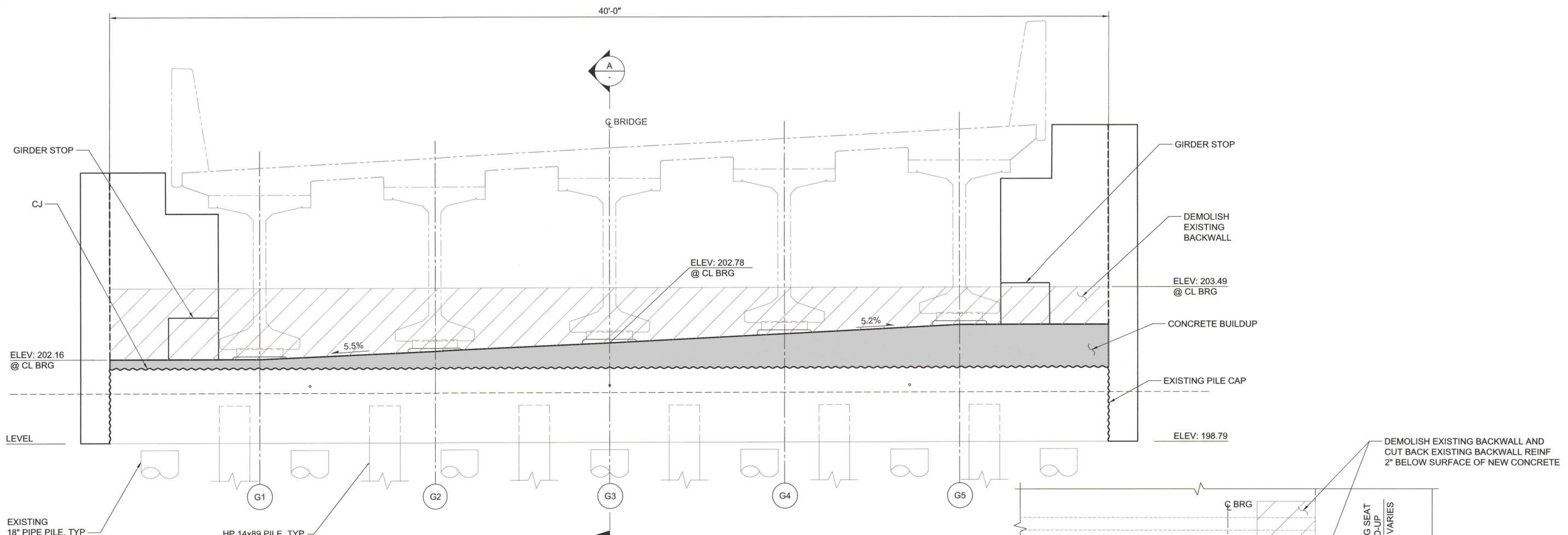
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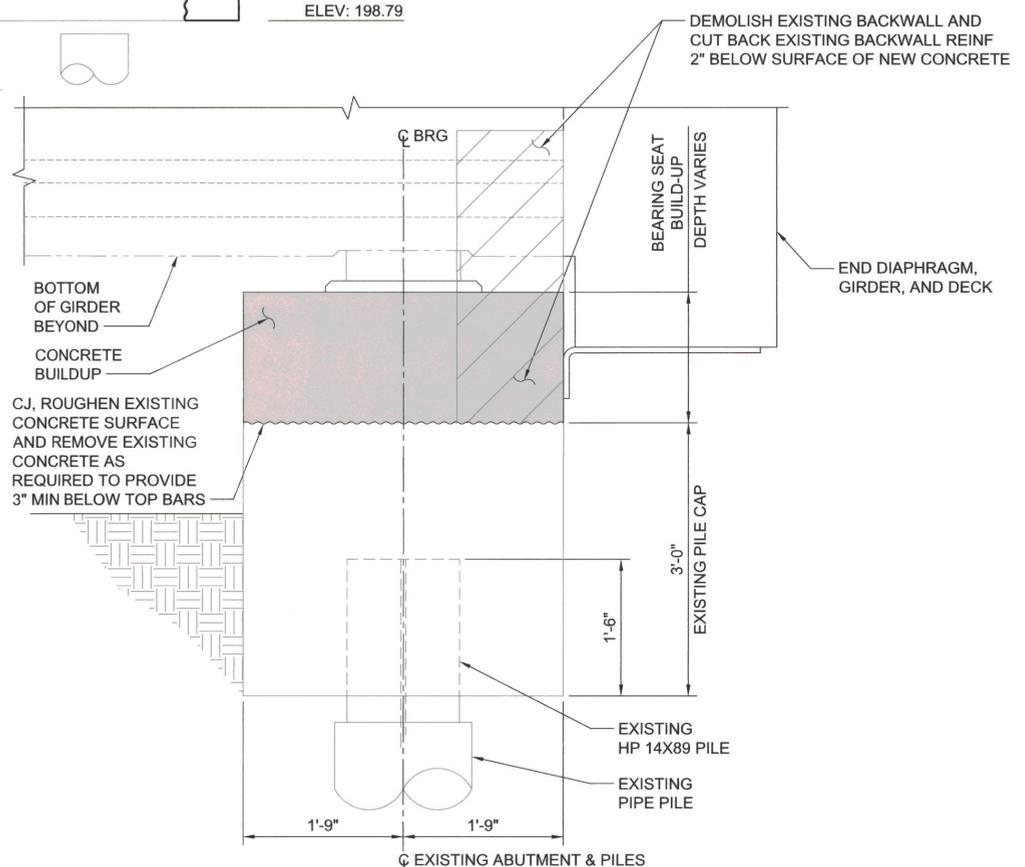
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CRP NO 788

TOWER ROAD BRIDGE
AT ROCK CREEK
ABUTMENT 1 ELEVATION AND SECTION

BID SET
 SHEET **S07**
39 OF 70



ABUTMENT 2 ELEVATION
 SCALE: 1/2" = 1'-0"
 LOOKING AHEAD ON STATION



SECTION - ABUTMENT 2
 SCALE: 1" = 1'-0"

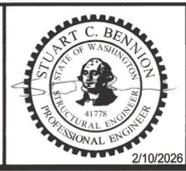
TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ SCALE: AS SHOWN
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S08.dwg



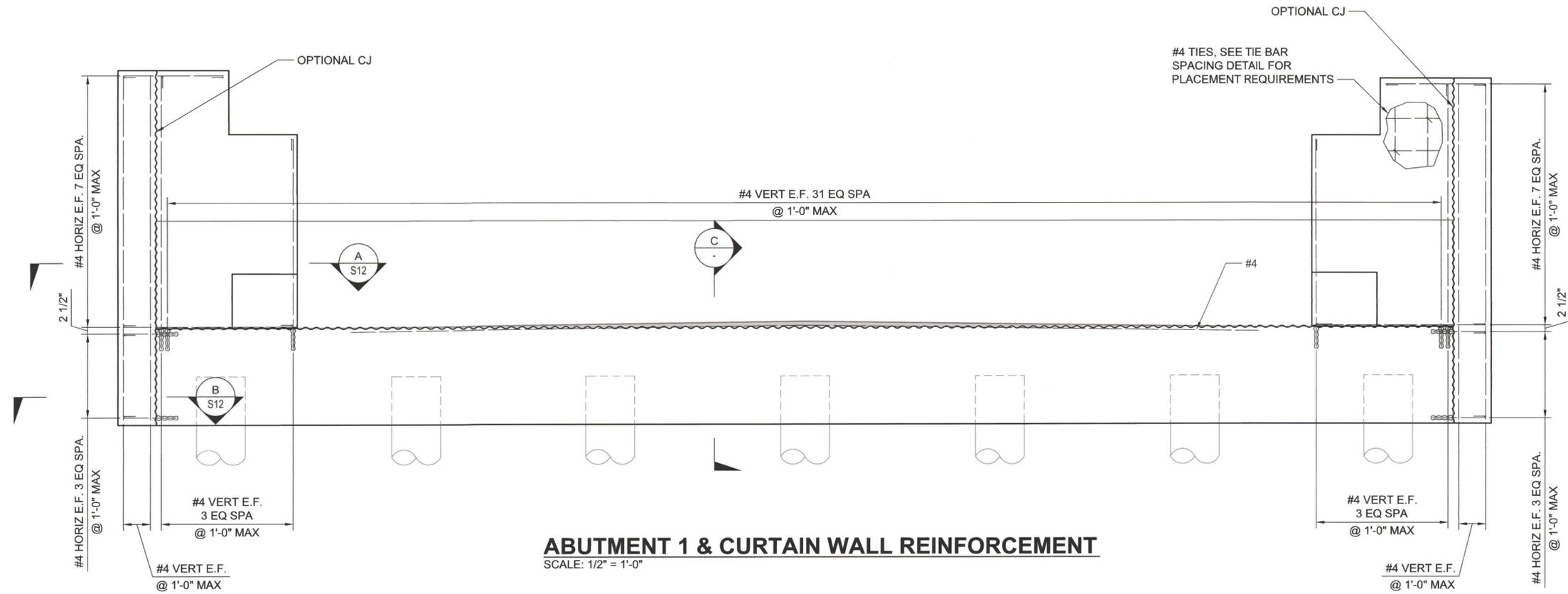
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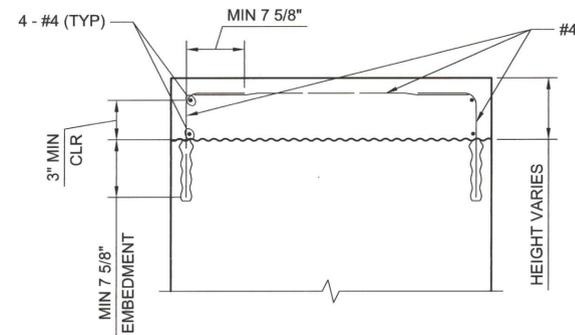
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 CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
ABUTMENT 2 ELEVATION AND SECTION



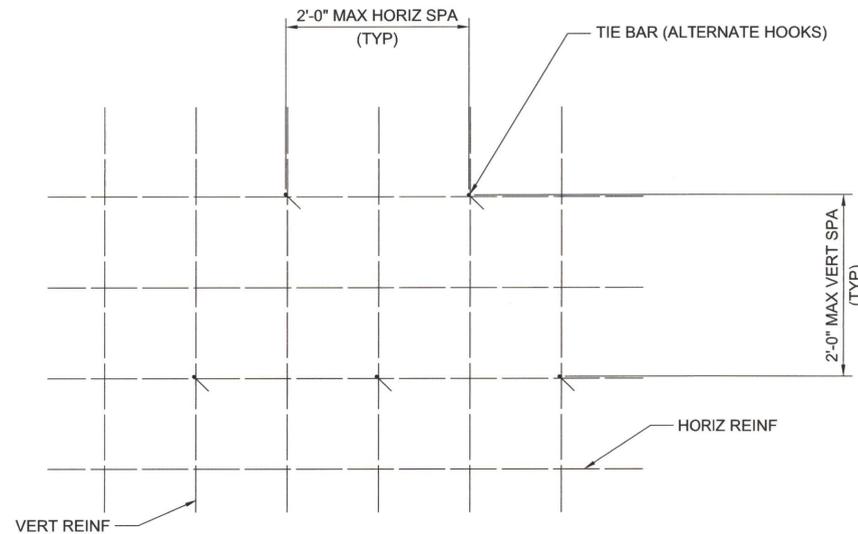
ABUTMENT 1 & CURTAIN WALL REINFORCEMENT

SCALE: 1/2" = 1'-0"



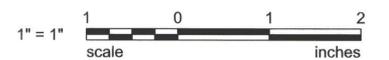
SECTION - ABUTMENT 1

SCALE: 1" = 1'-0"



DETAIL - TIE BAR SPACING

SCALE: 1" = 1'-0"



BID SET

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

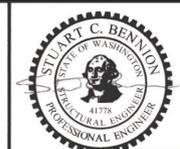
HORIZ. SCALE: AS SHOWN
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S09.dwg



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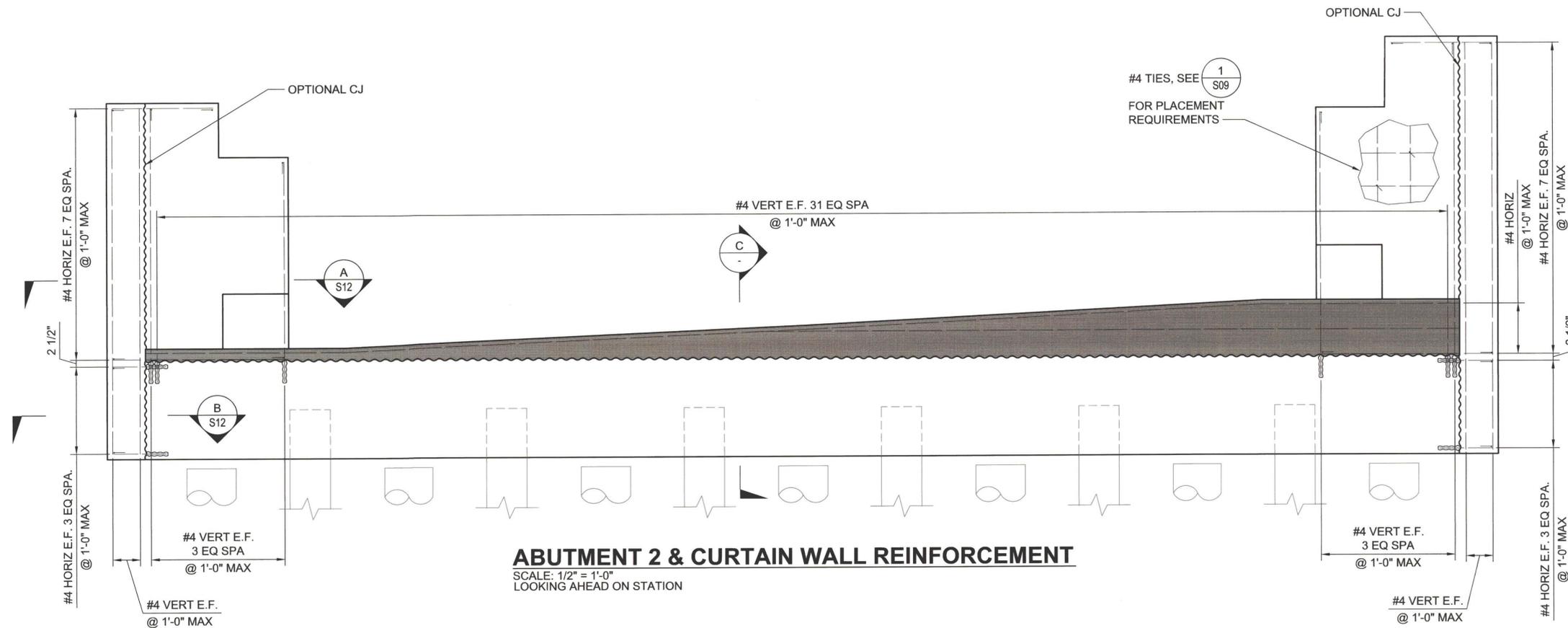


SEC 16 T 10 N R 1 W
 CRP NO 788

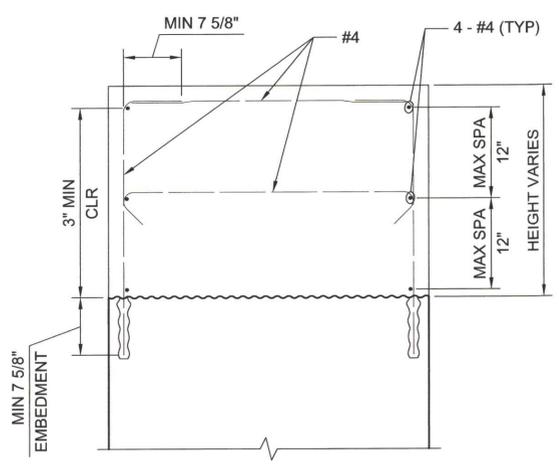
**TOWER ROAD BRIDGE
 AT ROCK CREEK
 ABUTMENT 1 & CURTAIN WALL
 REINFORCEMENT**

SHEET
S09

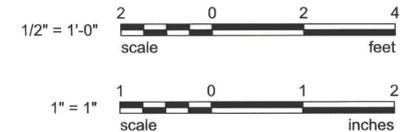
41 OF 70



ABUTMENT 2 & CURTAIN WALL REINFORCEMENT
 SCALE: 1/2" = 1'-0"
 LOOKING AHEAD ON STATION



SECTION - ABUTMENT 1
 SCALE: 1" = 1'-0"



TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S10.dwg



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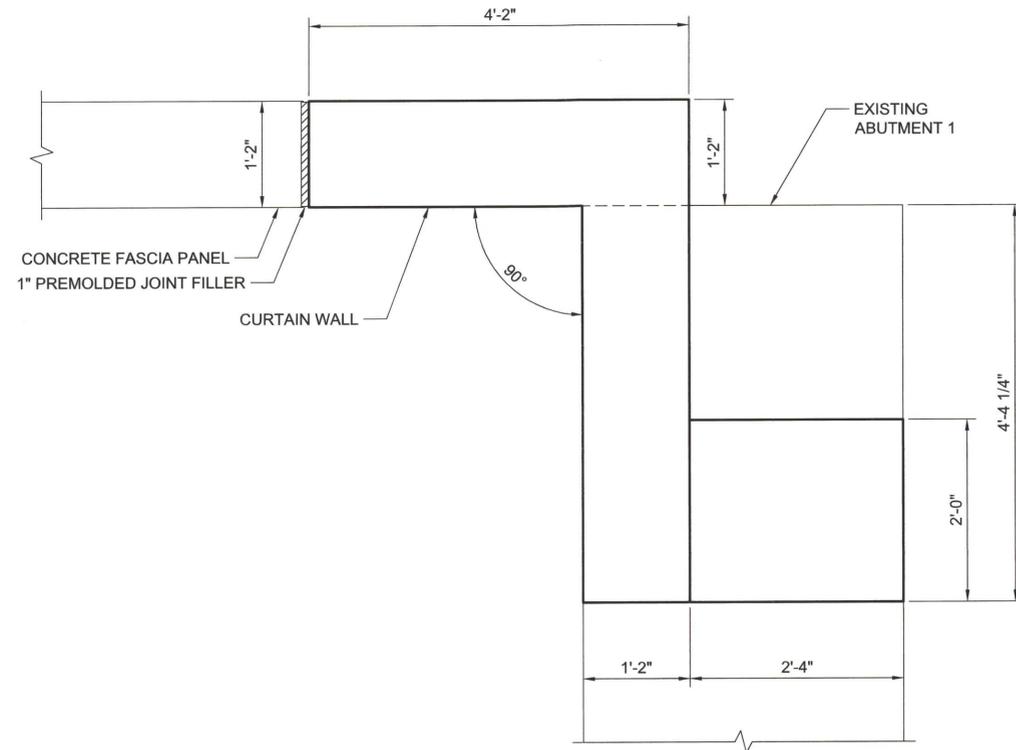


SEC 16 T 10 N R 1 W
 CRP NO 788

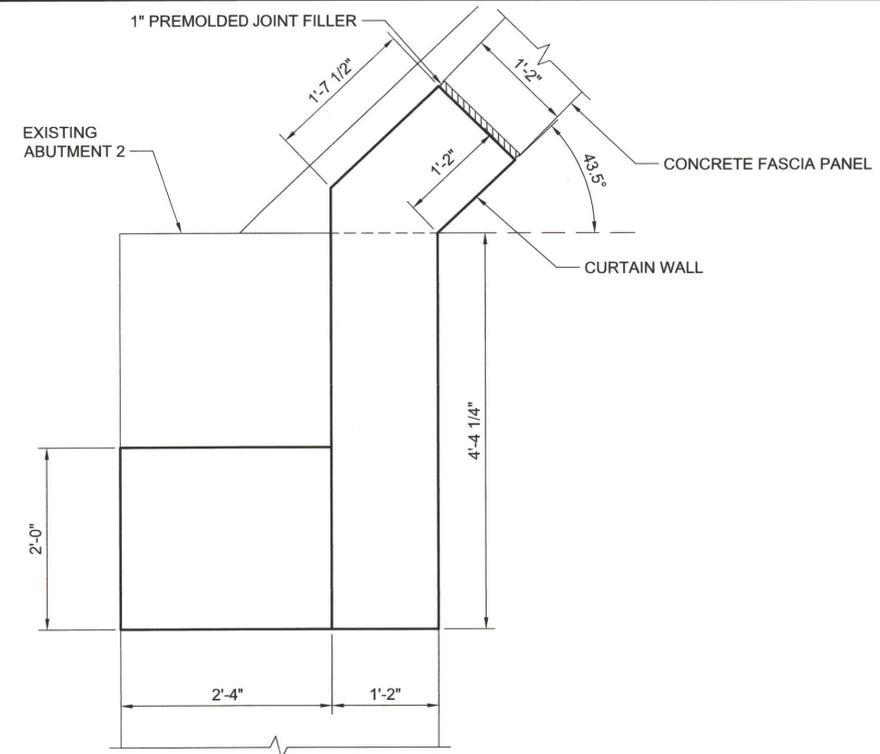
**TOWER ROAD BRIDGE
 AT ROCK CREEK
 ABUTMENT 2 & CURTAIN WALL
 REINFORCEMENT**

SHEET **S10**
 42 OF 70

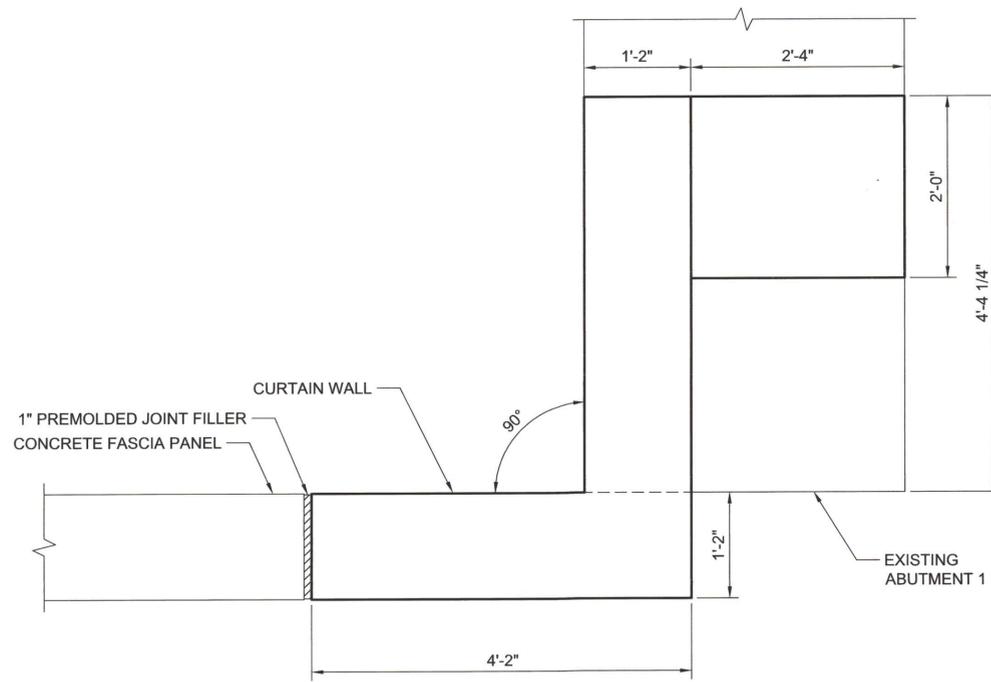
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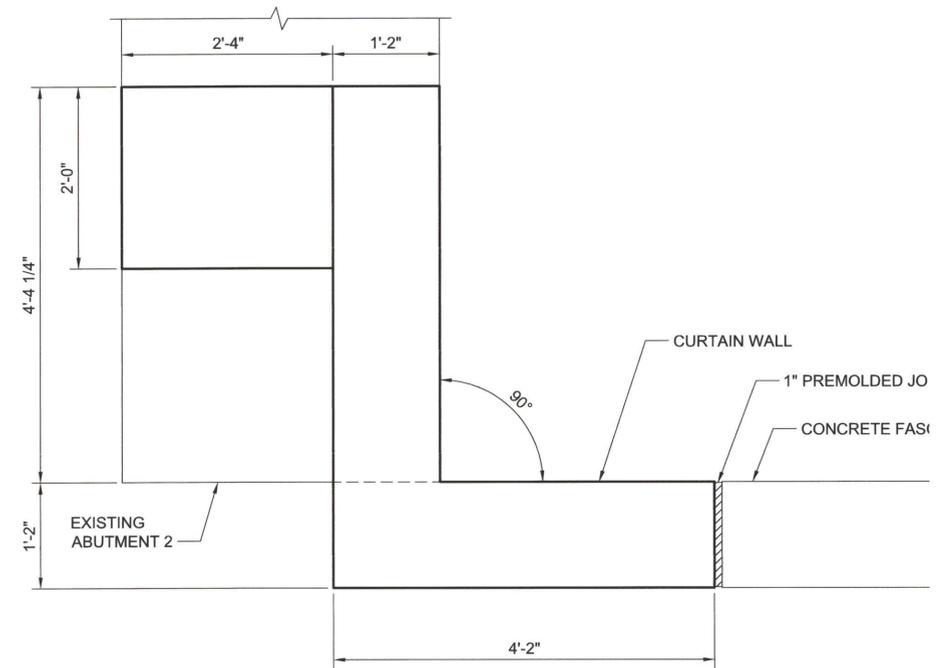
PLAN - CURTAIN WALL 1
SCALE: 1" = 1'
SUPERSTRUCTURE NOT SHOWN



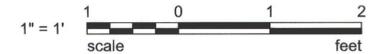
PLAN - CURTAIN WALL 3
SCALE: 1" = 1'
SUPERSTRUCTURE NOT SHOWN



PLAN - CURTAIN WALL 2
SCALE: 1" = 1'
SUPERSTRUCTURE NOT SHOWN



PLAN - CURTAIN WALL 4
SCALE: 1" = 1'
SUPERSTRUCTURE NOT SHOWN



TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 1'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S11.dwg



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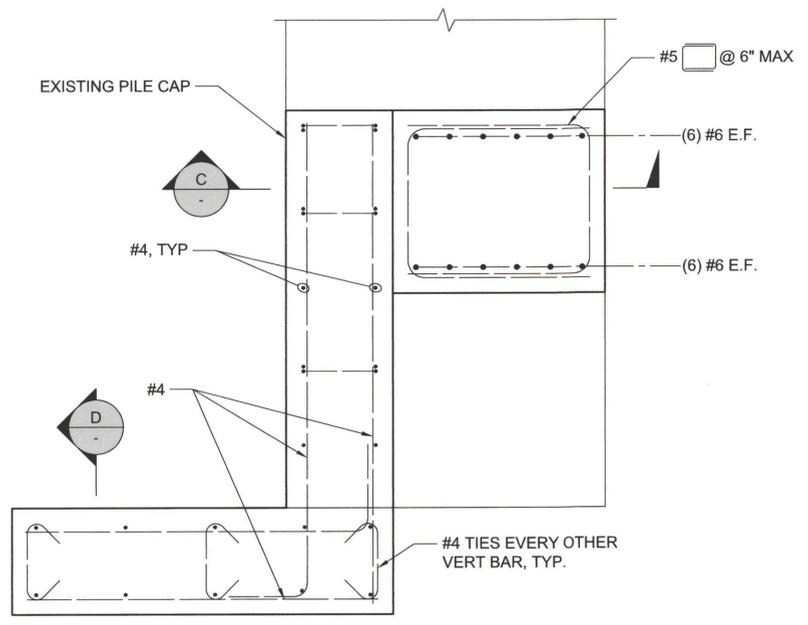
WSP USA Inc.
1300 SW 5TH AVE,
Suite 3100
Portland, OR 97201
TEL: 503-872-4100
FAX: 503-872-4101



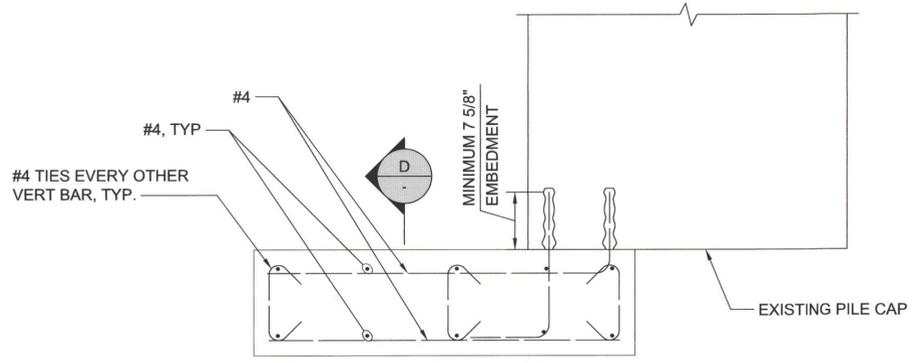
SEC 16 T 10 N R 1 W
CRP NO 788

**TOWER ROAD BRIDGE
AT ROCK CREEK**
PLAN - CURTAIN WALLS

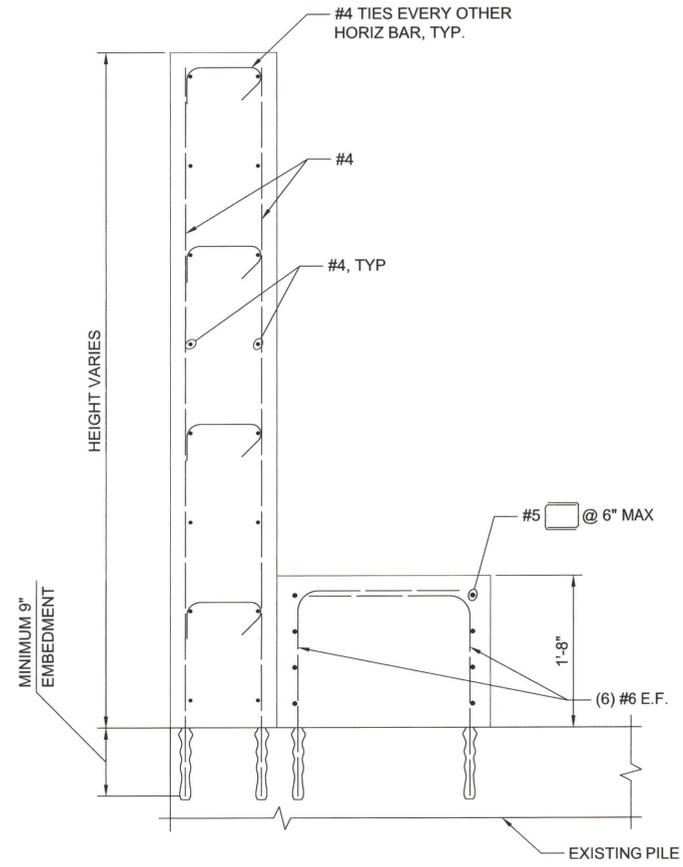
BID SET
SHEET
S11
43 OF 70



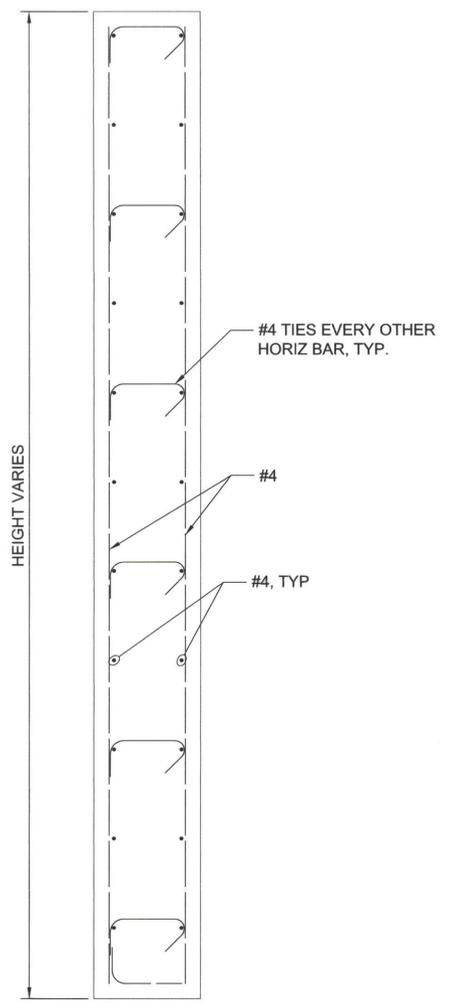
A
SECTION CURTAIN WALL AND GIRDER STOP
CURTAIN WALL 1 SHOWN,
CURTAIN WALL 2, 3, & 4 SIMILAR
SCALE: 1" = 1'



B
SECTION CURTAIN WALL
CURTAIN WALL 1 SHOWN,
CURTAIN WALL 2, 3, & 4 SIMILAR
SCALE: 1" = 1'



C
SECTION CURTAIN WALL AND GIRDER STOP
CURTAIN WALL 1 SHOWN,
CURTAIN WALL 2, 3, & 4 SIMILAR
SCALE: 1" = 1'



D
SECTION CURTAIN WALL
CURTAIN WALL 1 SHOWN,
CURTAIN WALL 2, 3, & 4 SIMILAR
SCALE: 1" = 1'

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 1'
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S12.dwg

COWLITZ COUNTY
WASHINGTON

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STUART C. BEANSON
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
4178
2/10/2026

SEC 16 T 10 N R 1 W
CRP NO 788

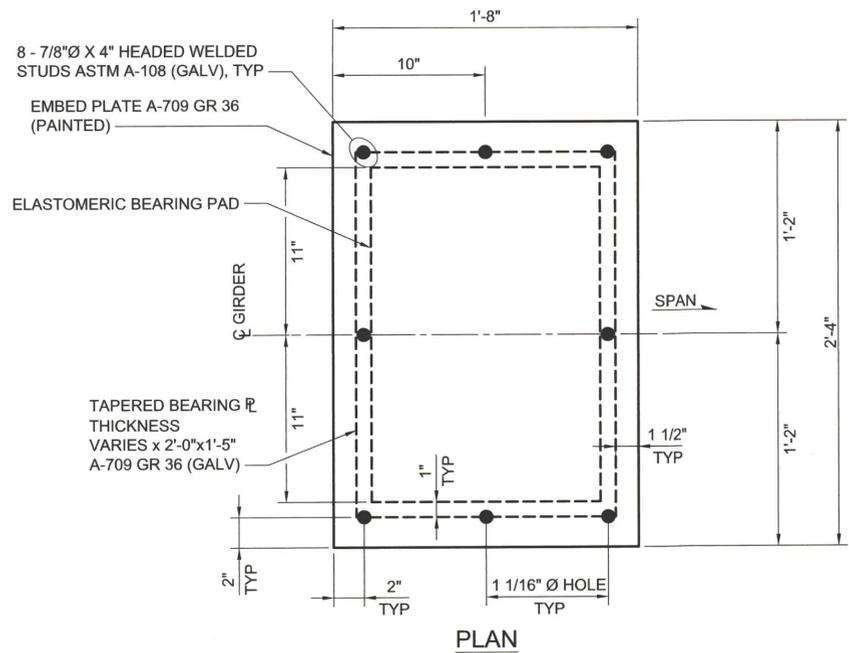
TOWER ROAD BRIDGE
AT ROCK CREEK

CURTAIN WALL REINFORCEMENT

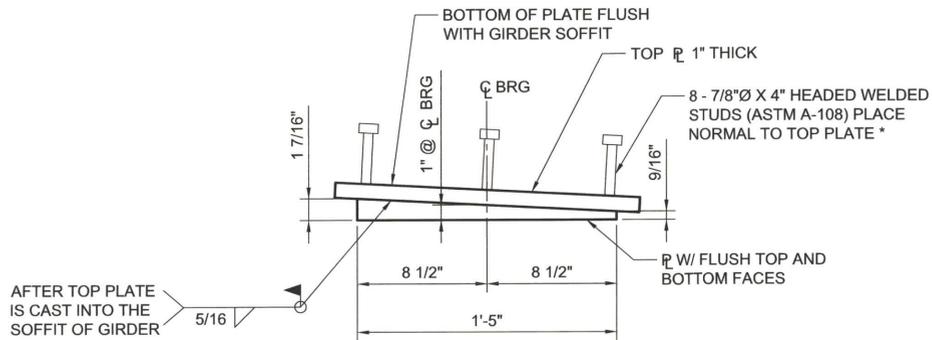
BID SET

SHEET
S12

44 OF 70



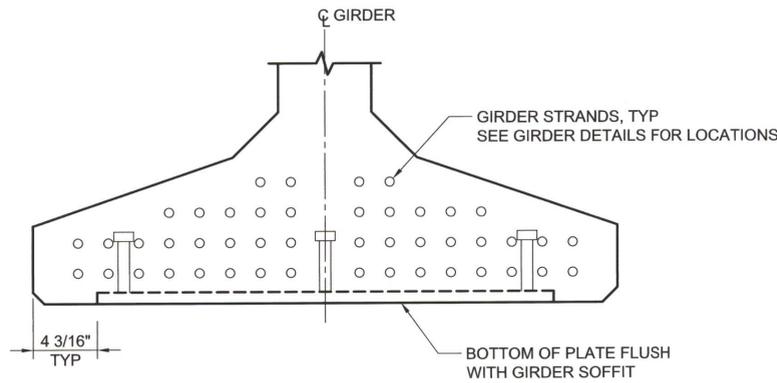
PLAN



ELEVATION

1 **DETAIL - EMBED PLATE & TAPERED BEARING PLATE ASSEMBLY (PAINTED)**

NTS
 PAINT AFTER INSTALLATION ONTO GIRDER
 * DIMENSIONS MAY VARY TO AVOID INTERFERENCE WITH STRANDS



2 **STRAND PATTERN AND EMBEDDED PLATE**
 SCALE: NONE
 SEE EMBED PLATE DETAILS FOR DIMENSIONS AND HEADED STUD LOCATIONS

NOTES:

1. BEVEL PLATE ASSEMBLY SHALL BE PAINTED USING A FOUR PART PAINT SYSTEM IN ACCORDANCE TO STD. SPECIFICATIONS SECTION 6-07.3 (9) AND SECTION 9-08.1
2. FIELD WELD AND PAINTING OF BEVEL PLATE ASSEMBLIES SHALL OCCUR AFTER GIRDER FABRICATION, BUT PRIOR TO SHIPPING OF GIRDERS TO SITE. CONTRACTOR TO WRAP AND PROTECT BEVEL PLATE ASSEMBLIES UP UNTIL PLACEMENT ON ELASTOMERIC BEARINGS.

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: NONE
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S14.dwg



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SEC 16 T 10 N R 1 W
 CRP NO 788

TOWER ROAD BRIDGE
 AT ROCK CREEK

BEARING DETAILS - SHEET 2

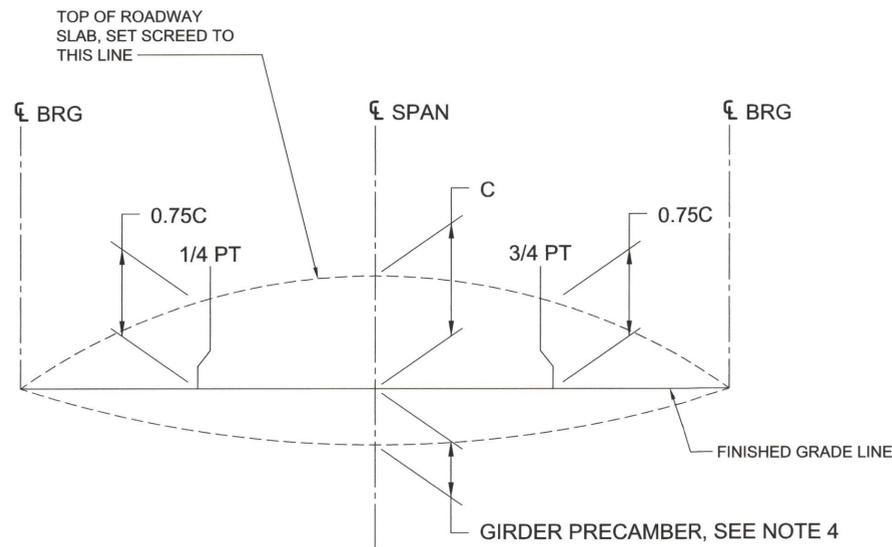
BID SET

SHEET
S14

46 OF 70

GIRDER SCHEDULE

SPAN	GIRDER	GIRDER SERIES	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	INT. DIAPHRAGM TYPE (FULL OR PARTIAL)	GIRDER END DETAILS								MIN. CONC. COMP. STRENGTH		NUMBER OF STRANDS (SEE GIRDER NOTE 2)		LOCATION OF C.G. STRANDS			STRAIGHT STRANDS TO EXTEND		"A" DIMENSION @ CL BRDG	GIRDER PRECAMBER	SCREED CAMBER "C" @ MIDSPAN	MIDSPAN VERTICAL DEFLECTION		REINFORCEMENT DETAILS						SHIPPING AND HANDLING DETAILS				
					END 1 TYPE	END 2 TYPE	L _d	θ ₁	θ ₂	P ₁	P ₂	@ 28-DAYS FCI (KSI)	@ RELEASE FCI (KSI)	STRAIGHT	HARPED	E	F _ε	F _o	END 1	END 2	LOWER BOUND @ 40 DAYS				UPPER BOUND @ 120 DAYS	ZONE 1		ZONE 2		ZONE 3		MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L ₁	L ₂	K _{rs} MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	W _{cc} MINIMUM SHIPPING SUPPORT CNTR-TO-CNTR WHEEL SPACING
																										SPACING	LENGTH	SPACING	LENGTH	SPACING	LENGTH						
1	G1	WF74G	144'-3"	PARTIAL	A	A	N/A	90	90	2'-1 1/2"	2'-1 1/2"	6.5	5.6	28	13	2 7/8"	4 1/4"	9 1/2"	3 TO 6	3 TO 6	1'-1"	-4 3/4"	2 1/4"	-2 5/8"	1/8"	3 1/2"	1'-9"	6"	12'-0"	9"	3'-9"	1/2"	5'-0"	6'-8 1/2"	6'-8 1/2"	50,000	6'-0"
1	G2	WF74G	144'-3"	PARTIAL	A	A	N/A	90	90	2'-1 1/2"	2'-1 1/2"	6.5	5.6	30	12	2 7/8"	4"	11"	3 TO 6	3 TO 6	1'-2"	-5"	2 3/8"	-2 7/8"	1/4"	3 1/2"	1'-9"	6"	12'-0"	9"	3'-9"	1/8"	5'-0"	6'-8 1/2"	6'-8 1/2"	50,000	6'-0"
1	G3	WF74G	144'-3"	PARTIAL	A	A	N/A	90	90	2'-1 1/2"	2'-1 1/2"	6.5	5.6	30	12	2 7/8"	4"	11"	3 TO 6	3 TO 6	1'-2 3/4"	-5"	2 3/8"	-2 7/8"	1/4"	3 1/2"	1'-9"	6"	12'-0"	9"	3'-9"	1/8"	5'-0"	6'-8 1/2"	6'-8 1/2"	50,000	6'-0"
1	G4	WF74G	144'-3"	PARTIAL	A	A	N/A	90	90	2'-1 1/2"	2'-1 1/2"	6.5	5.6	30	12	2 7/8"	4"	11"	3 TO 6	3 TO 6	1'-2 3/4"	-5"	2 3/8"	-2 7/8"	1/4"	3 1/2"	1'-9"	6"	12'-0"	9"	3'-9"	1/8"	5'-0"	6'-8 1/2"	6'-8 1/2"	50,000	6'-0"
1	G5	WF74G	144'-3"	PARTIAL	A	A	N/A	90	90	2'-1 1/2"	2'-1 1/2"	6.5	5.6	28	13	2 7/8"	4 1/4"	9 1/2"	3 TO 6	3 TO 6	1'-3"	-4 3/4"	2 1/4"	-2 5/8"	1/8"	3 1/2"	1'-9"	6"	12'-0"	9"	3'-9"	1/2"	5'-0"	6'-8 1/2"	6'-8 1/2"	50,000	6'-0"



SCREED SETTING DIMENSIONS

FOR DIMENSION "C" SEE GIRDER DETAIL DWGS.

GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND).
3. STRUCTURAL STEEL SHAPES AND ASSEMBLIES SHALL BE ASTM A36. THEY SHALL BE PAINTED WITH A PRIMER COAT IN ACCORDANCE WITH STD. SPEC. 6-07.3(9).
4. GIRDER PRECAMBER MEASURED PRIOR TO APPLICATION OF PRESTRESSING. A NEGATIVE PRECAMBER VALUE INDICATES A SAG CURVE

TDB
PROJECT MANAGER
DATE 2/4/26

JGH
DRAWN BY
DATE 2/4/26

SCB
CHECKED BY
DATE 2/4/26

HORIZ. SCALE: NONE
VERT. SCALE: NONE

PROJECT ID: 1801
ROAD NO. : 51200

COMPUTER FILE: 07_S15.dwg

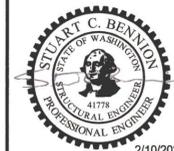


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CRP NO 788

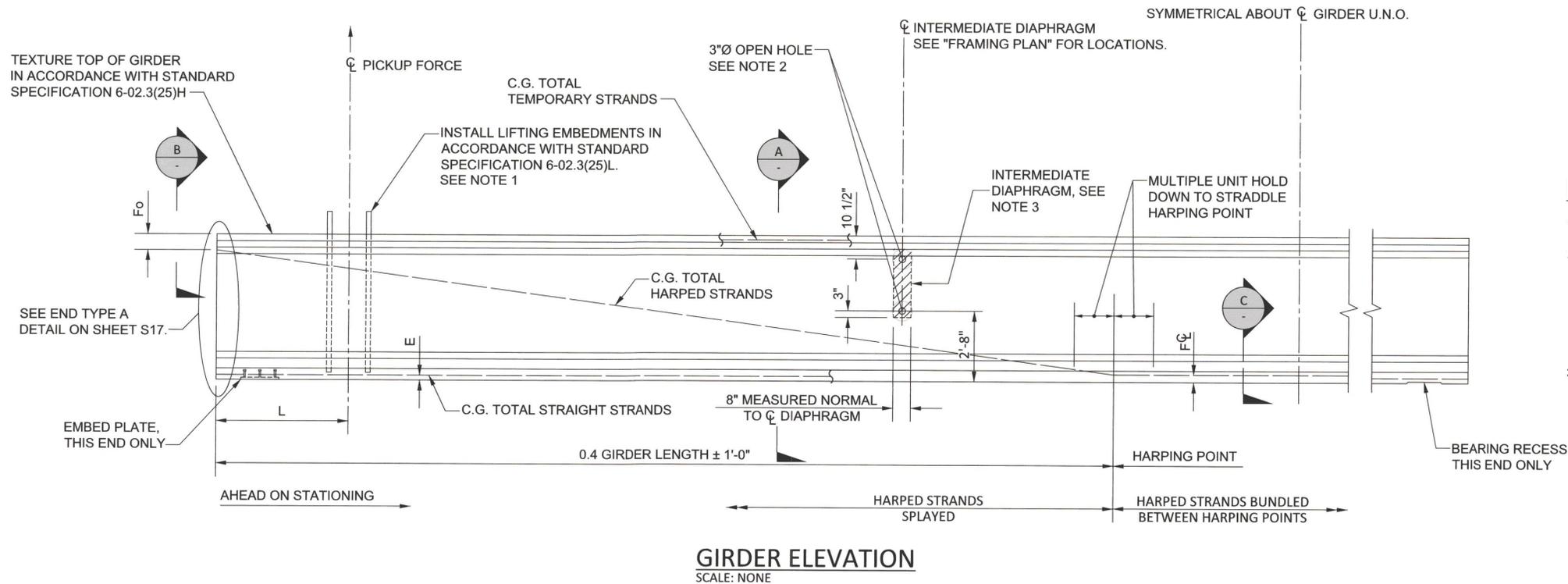
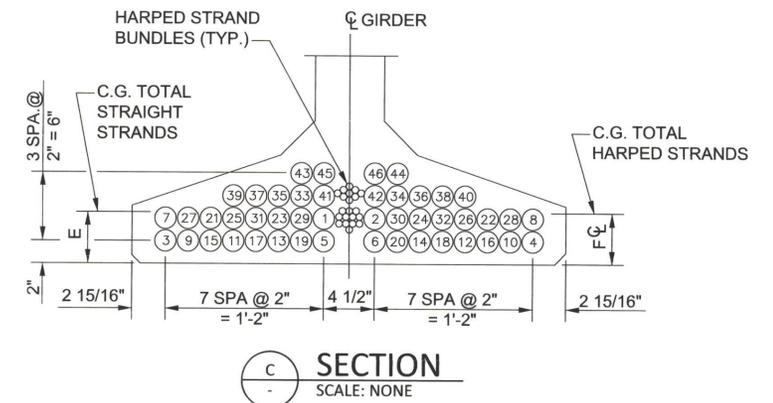
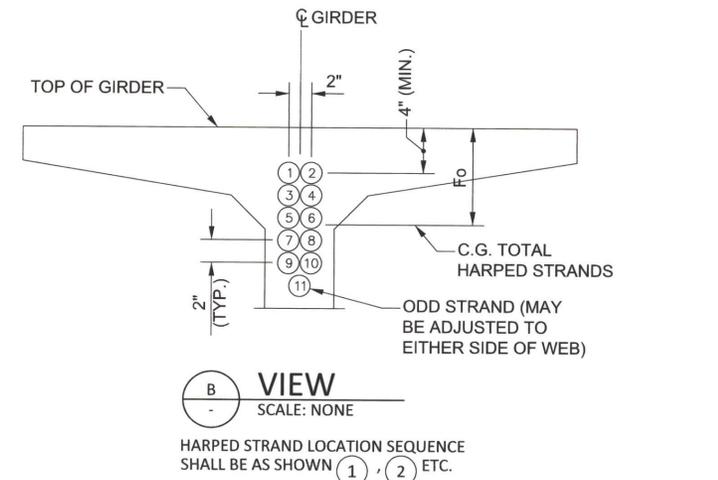
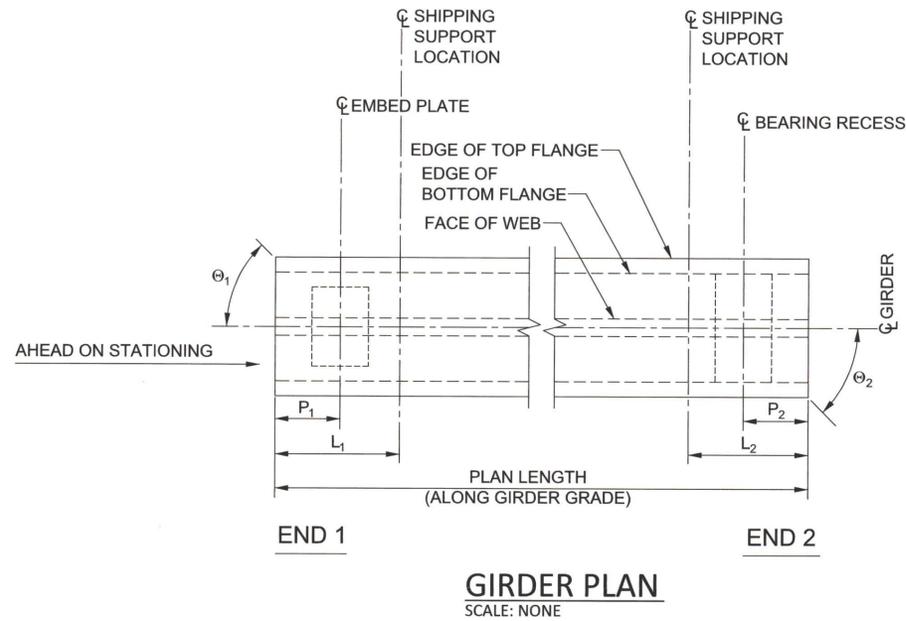
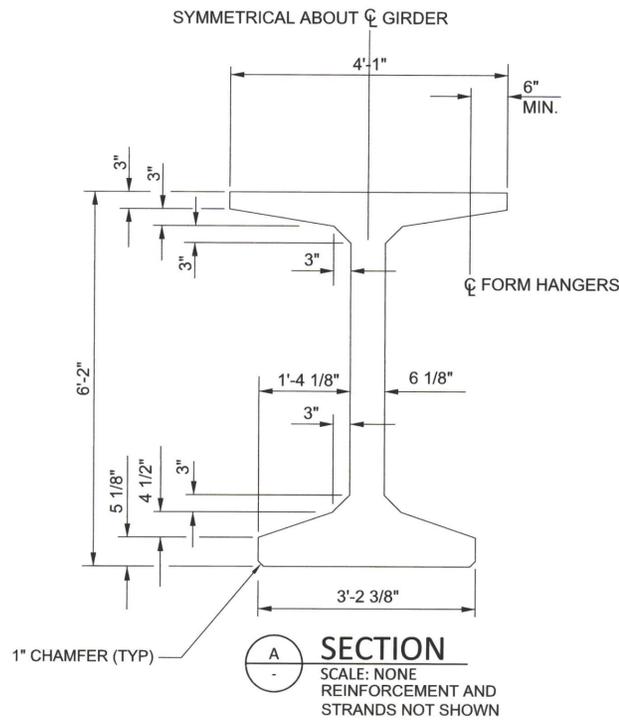
**TOWER ROAD BRIDGE
AT ROCK CREEK**

BRIDGE GIRDER DETAILS - SHEET 1

BID SET

SHEET
S15

47 OF 70



NOTES:

1. REMOVE TO TOP OF GIRDER AFTER ERECTION.
2. ADJUST HOLE LOCATION VERTICALLY TO MISS HARPED STRANDS. OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO DIAPHRAGM CENTERLINE. INSERTS SHALL BE 1" Ø MEADOWBURKE MX-3 HI-TENSILE, 1" Ø MEADOWBURKE FX-19 FERRULE INSERT, 1" Ø x 5 1/2" WILLIAMS F22 OPEN FERRULE INSERT, 1" Ø x 4 5/8" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.
3. APPLY APPROVED RETARDANT FOR 1/4" ETCH TO SIDE FORMS OR 1/4" ROUGHENED SURFACE TREATMENT BY APPROVED MECHANICAL METHOD. OMIT AT EXTERIOR FACE OF EXTERIOR GIRDERS.

TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S16.dwg



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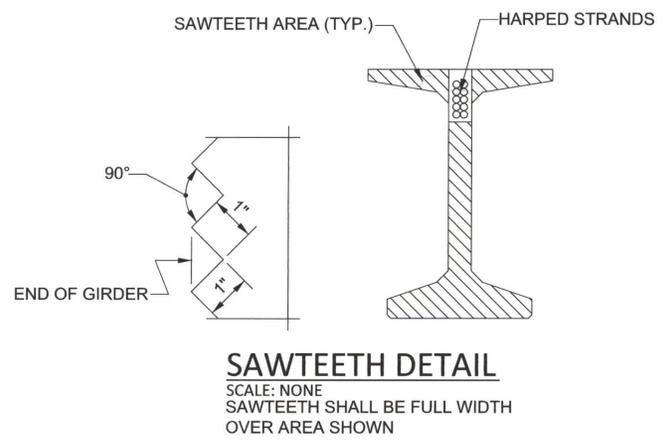
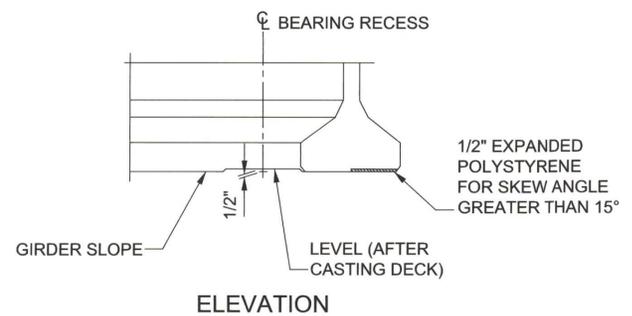
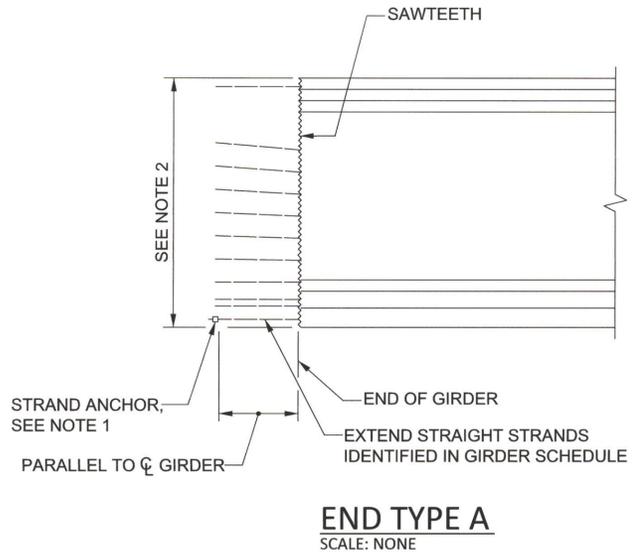
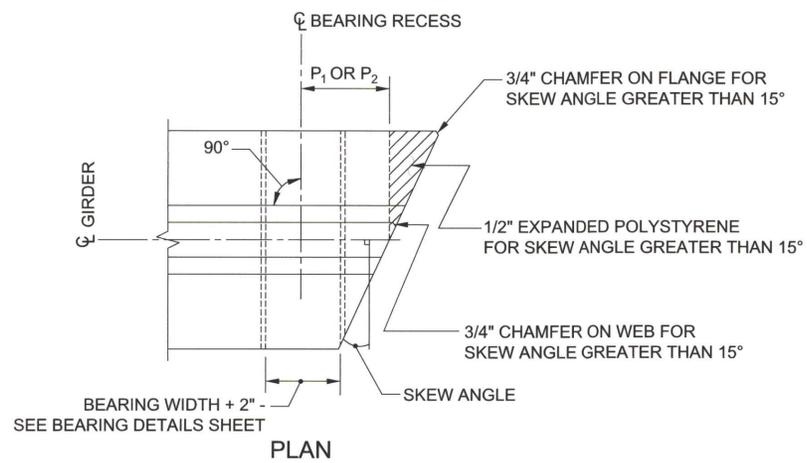


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SEC 16 T 10 N R 1 W
CRP NO 788

<p>TOWER ROAD BRIDGE AT ROCK CREEK</p>		BID SET
		SHEET S16
<p>BRIDGE GIRDER DETAILS - SHEET 2</p>		48 OF 70



BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL
 SCALE: NONE
 BEARING RECESS FORMS SHALL BE CONSTRUCTED AND FASTENED TO AVOID GIRDER DAMAGE DURING STRAND RELEASE.
 PROVIDE BEARING RECESS AT ABUTMENT 2 END OF GIRDER ONLY.

- NOTES:**
- 1 1 1/16"Ø MIN. STRAND CHUCK OR ASTM A108 2 3/4"Ø x 1 1/8" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
 - 2 CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S17.dwg



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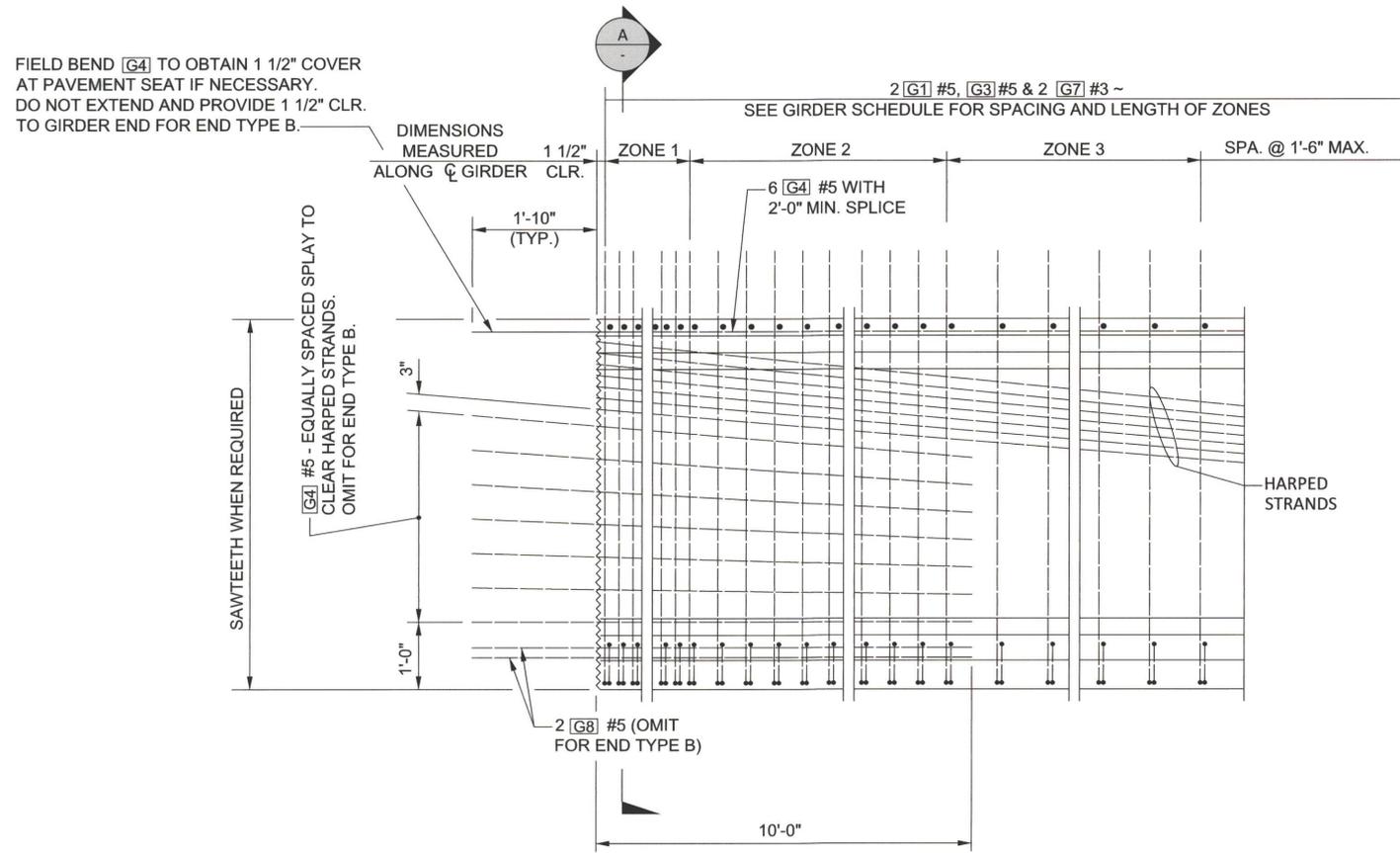
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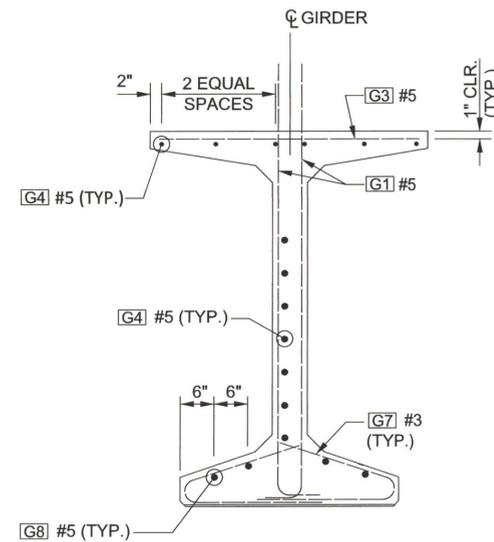
TOWER ROAD BRIDGE AT ROCK CREEK
BRIDGE GIRDER DETAILS - SHEET 3

BID SET
 SHEET **S17**
49 OF 70



REINFORCEMENT END ELEVATION

SCALE: NONE
STRAIGHT AND TEMPORARY STRANDS NOT SHOWN FOR CLARITY. WF66G SHOWN, OTHERS SIMILAR



SECTION
SCALE: NONE
STRANDS NOT SHOWN

REINFORCEMENT NOTES:

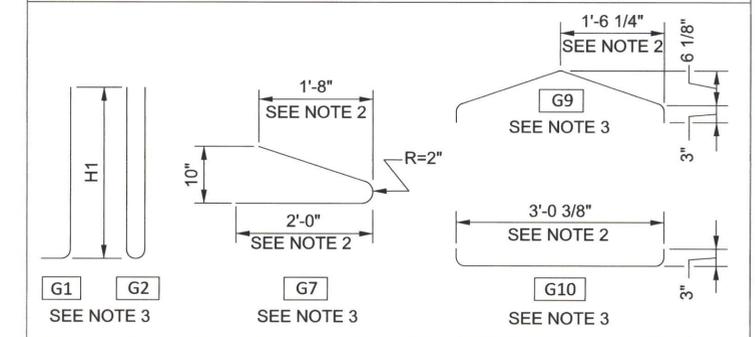
1. DEFORMED WELDED WIRE REINFORCEMENT MAY BE SUBSTITUTED FOR MILD REINFORCEMENT IN ACCORDANCE WITH STANDARD SPECIFICATION 6-02.3(25)A.

NOTES:

1. VARIES FOR SKEWED ENDS.
2. PAIRS OF [G7] BARS, OR [G9] AND [G10] BARS, MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES.
3. 1 [G2] MAY BE SUBSTITUTED FOR 2 [G1] WITHIN ZONE 1.

BENDING DIAGRAM

(ALL DIMENSIONS ARE OUT TO OUT)



TDB PROJECT MANAGER 2/4/26 DATE
JGH DRAWN BY 2/4/26 DATE
SCB CHECKED BY 2/4/26 DATE

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S18.dwg



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SEC 16 T 10 N R 1 W
CRP NO 788

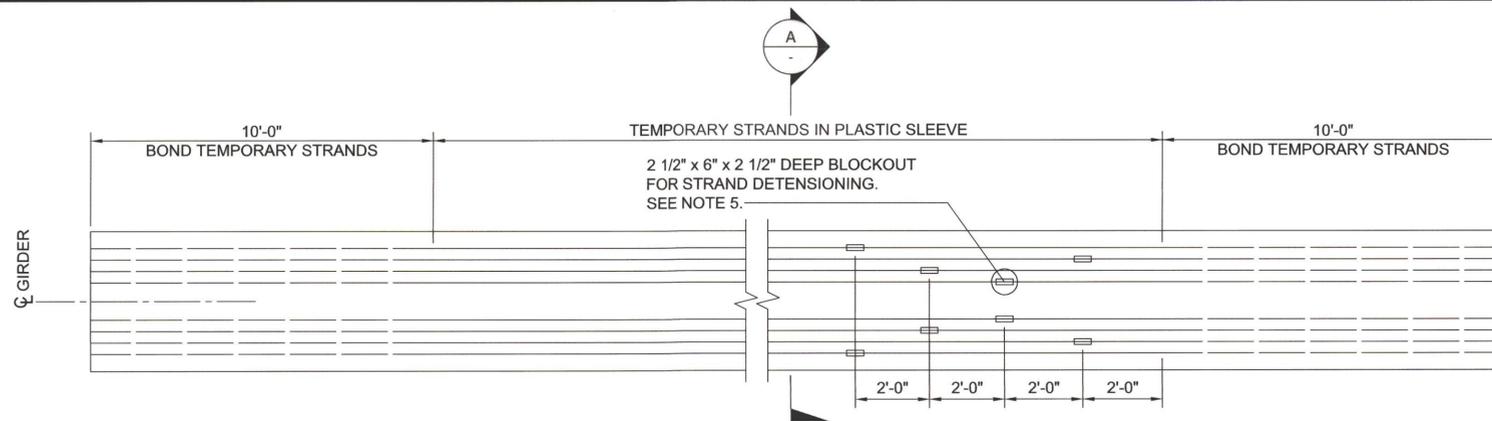
TOWER ROAD BRIDGE
AT ROCK CREEK

BRIDGE GIRDER DETAILS - SHEET 4

BID SET

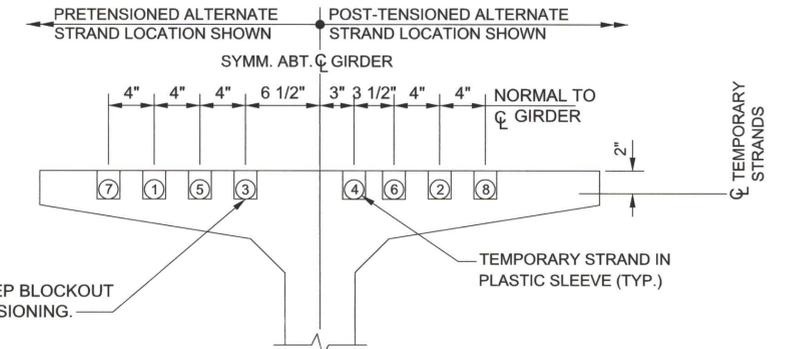
SHEET S18

50 OF 70



**PLAN
PRETENSIONED TEMPORARY
TOP STRANDS ALTERNATE**

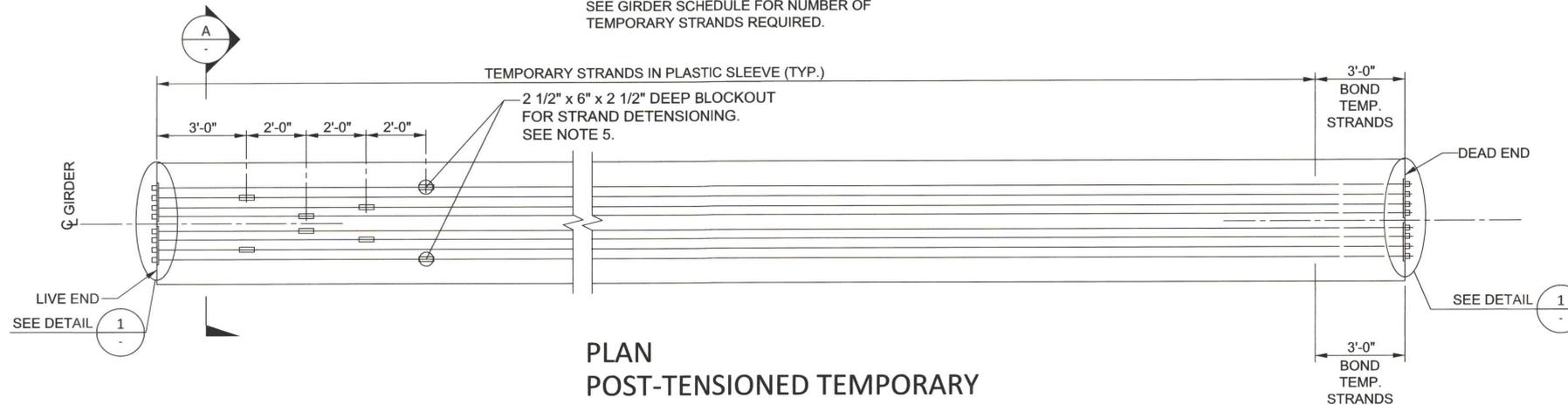
SCALE: NONE
SEE GIRDER SCHEDULE FOR NUMBER OF
TEMPORARY STRANDS REQUIRED.



**SECTION
SCALE: NONE**

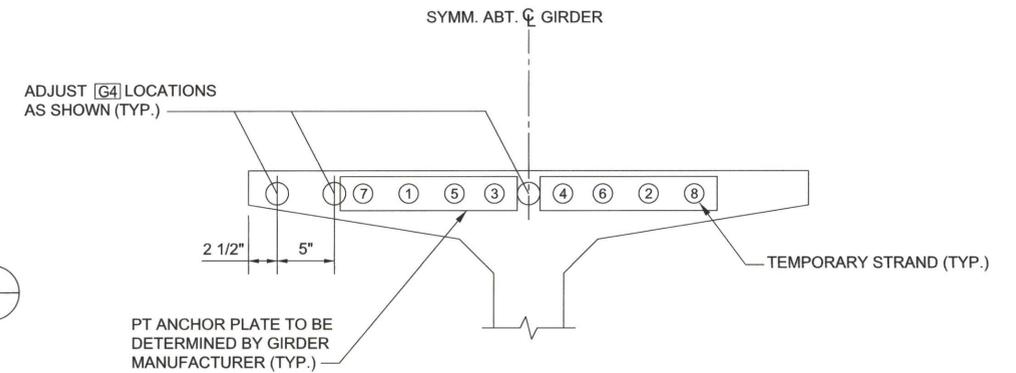
2 1/2" x 6" x 2 1/2" DEEP BLOCKOUT
FOR STRAND DETENSIONING.
SEE NOTE 5.

TEMPORARY STRAND LOCATION SEQUENCE SHALL BE AS
SHOWN ①, ② ETC.



**PLAN
POST-TENSIONED TEMPORARY
TOP STRANDS ALTERNATE**

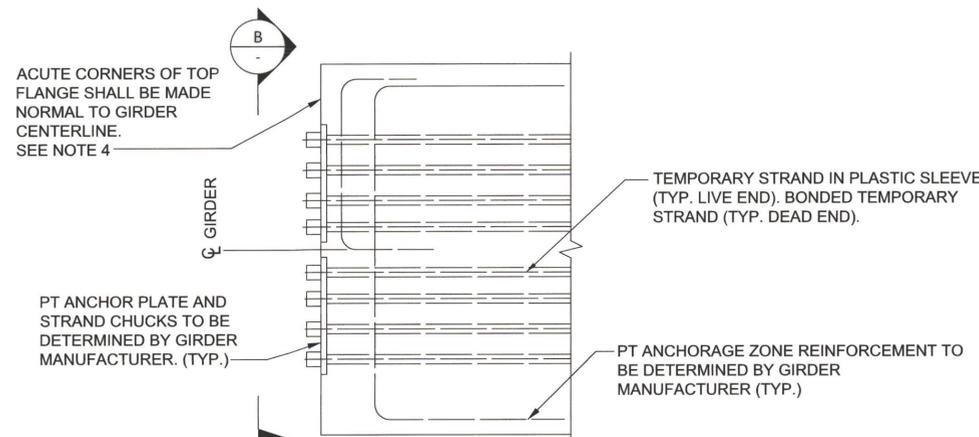
SCALE: NONE
SEE GIRDER SCHEDULE FOR NUMBER OF
TEMPORARY STRANDS REQUIRED.



**VIEW
SCALE: NONE**

ADJUST [G4] LOCATIONS
AS SHOWN (TYP.)

PT ANCHOR PLATE TO BE
DETERMINED BY GIRDER
MANUFACTURER (TYP.)



**1
SCALE: NONE**

REINFORCEMENT NOTES:

- TEMPORARY TOP STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 6-02.3(25)L.
- FOR GIRDERS ERECTED ON A LONGITUDINAL GRADE, STRAND DETENSIONING BLOCKOUTS SHALL BE PLACED AT THE LOW END OF THE GIRDER.
- CUT TEMPORARY STRANDS IN NUMBERED SEQUENCE SHOWN IN SECTION A, THIS SHEET.
- RECONFIGURE TOP FLANGE REINFORCEMENT ACCORDINGLY.
- FORM WITH EXPANDED POLYSTYRENE. REMOVE POLYSTYRENE JUST PRIOR TO CUTTING THE TEMPORARY STRANDS AND PREVENT MOISTURE FROM ENTERING THE BLOCKOUT AS DESCRIBED IN THE TEMPORARY STRAND CUTTING SEQUENCE (TYP.).

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S19.dwg



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SEC 16 T 10 N R 1 W
CRP NO 788

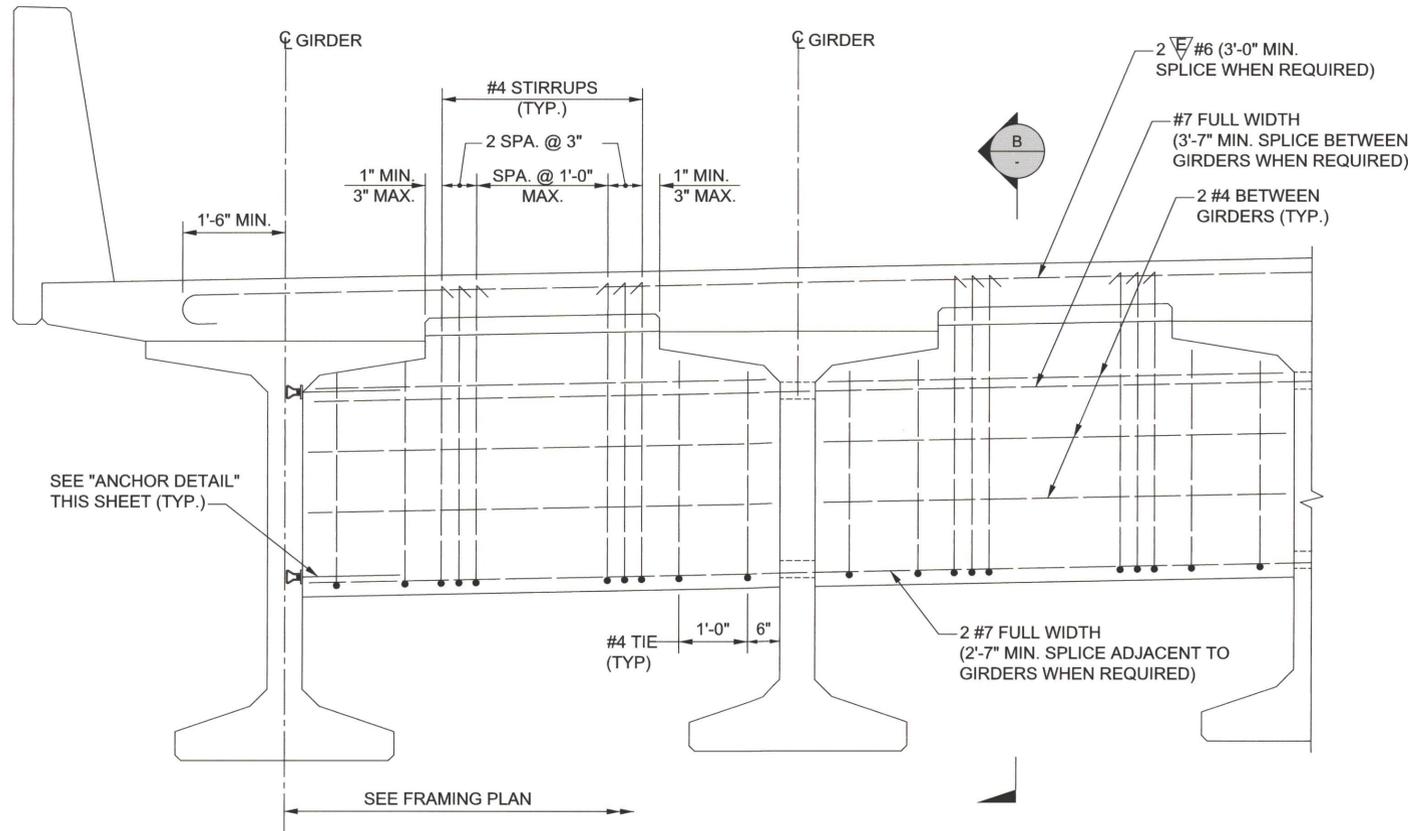
**TOWER ROAD BRIDGE
AT ROCK CREEK**

BRIDGE GIRDER DETAILS - SHEET 5

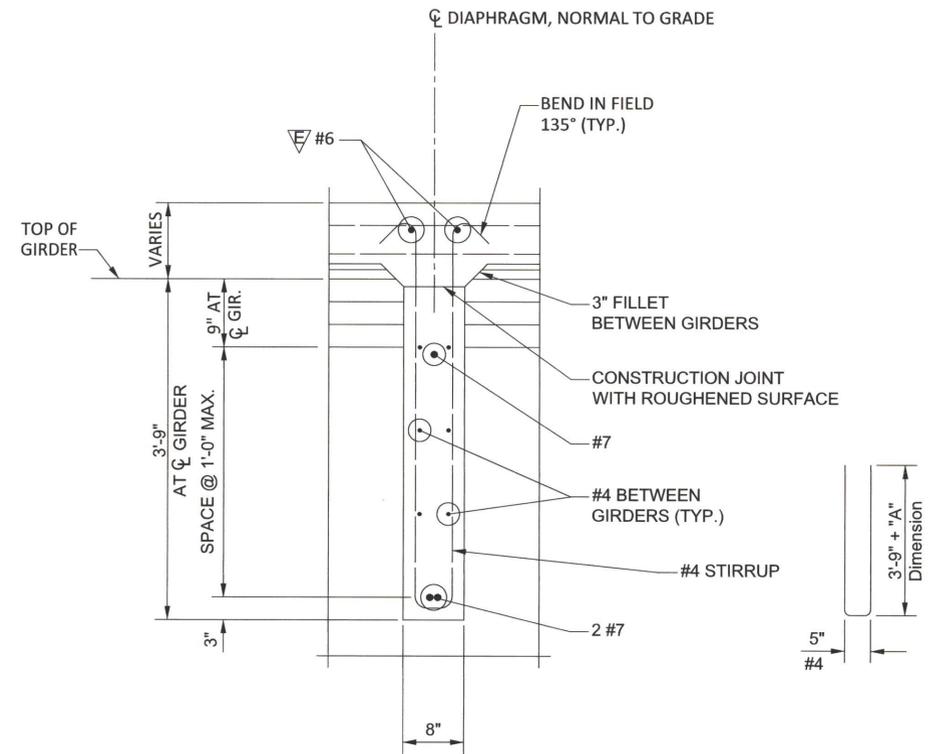
BID SET

SHEET
S19

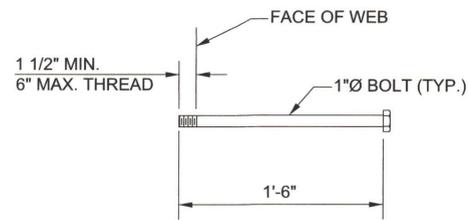
51 OF 70



ELEVATION
PARTIAL DEPTH INTERMEDIATE DIAPHRAGM
 SCALE: NONE
 DIMENSIONS ARE ALONG DIAPHRAGM



SECTION
 SCALE: NONE



ANCHOR DETAIL
 SCALE: NONE
 ASTM A307

DIAPHRAGM NOTES:

- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- IT MAY BE NECESSARY TO THREAD REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
- CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
- LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
- FOR CONCRETE PLACEMENT PROCEDURE SEE "BRIDGE CONSTRUCTION SEQUENCE" SHEET.

TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ. SCALE: NONE
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
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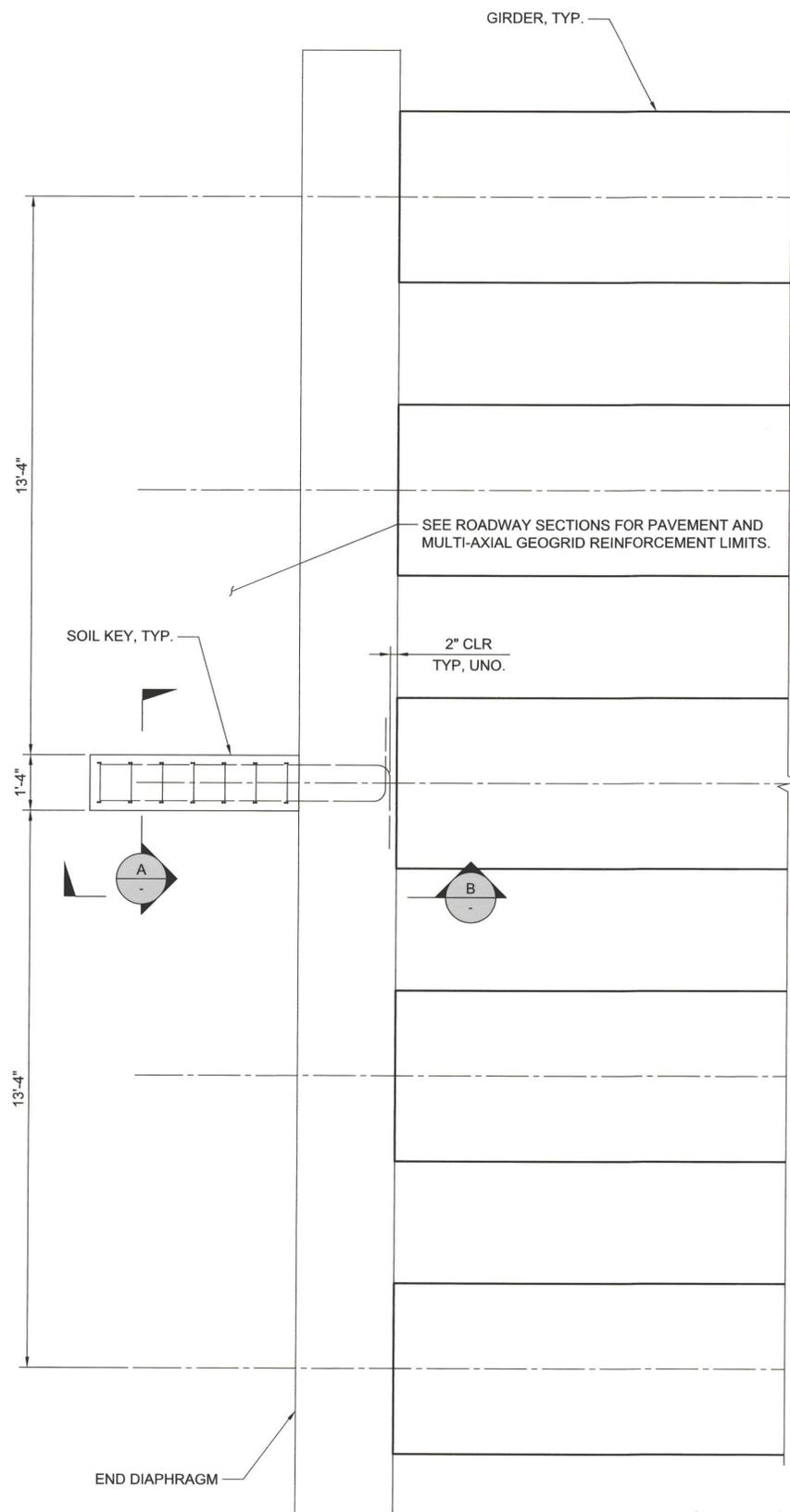


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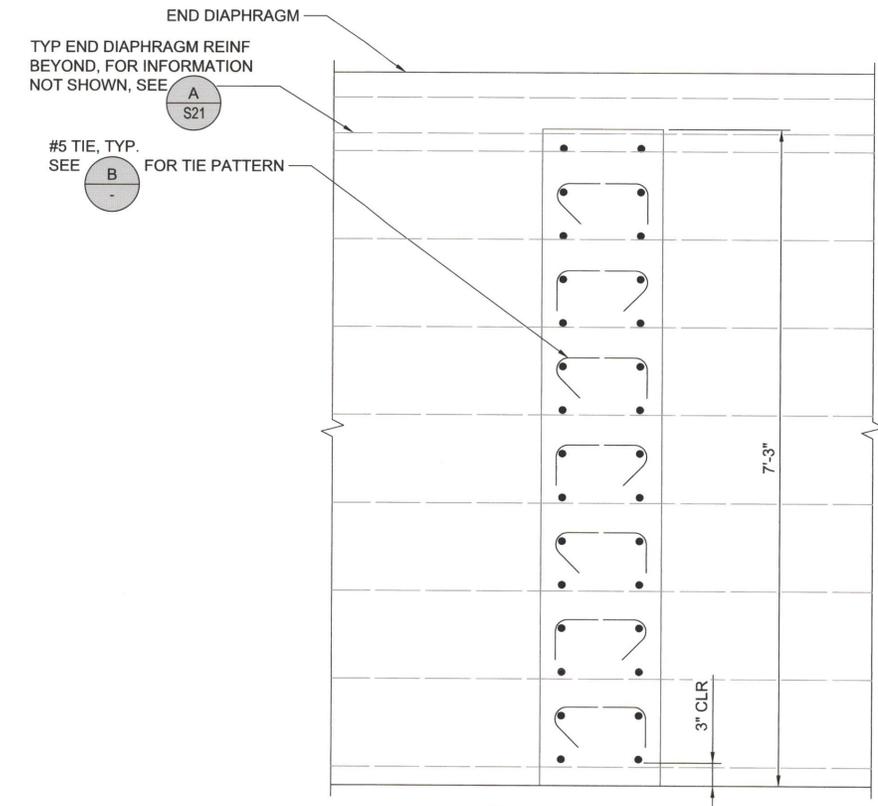


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 CRP NO 788

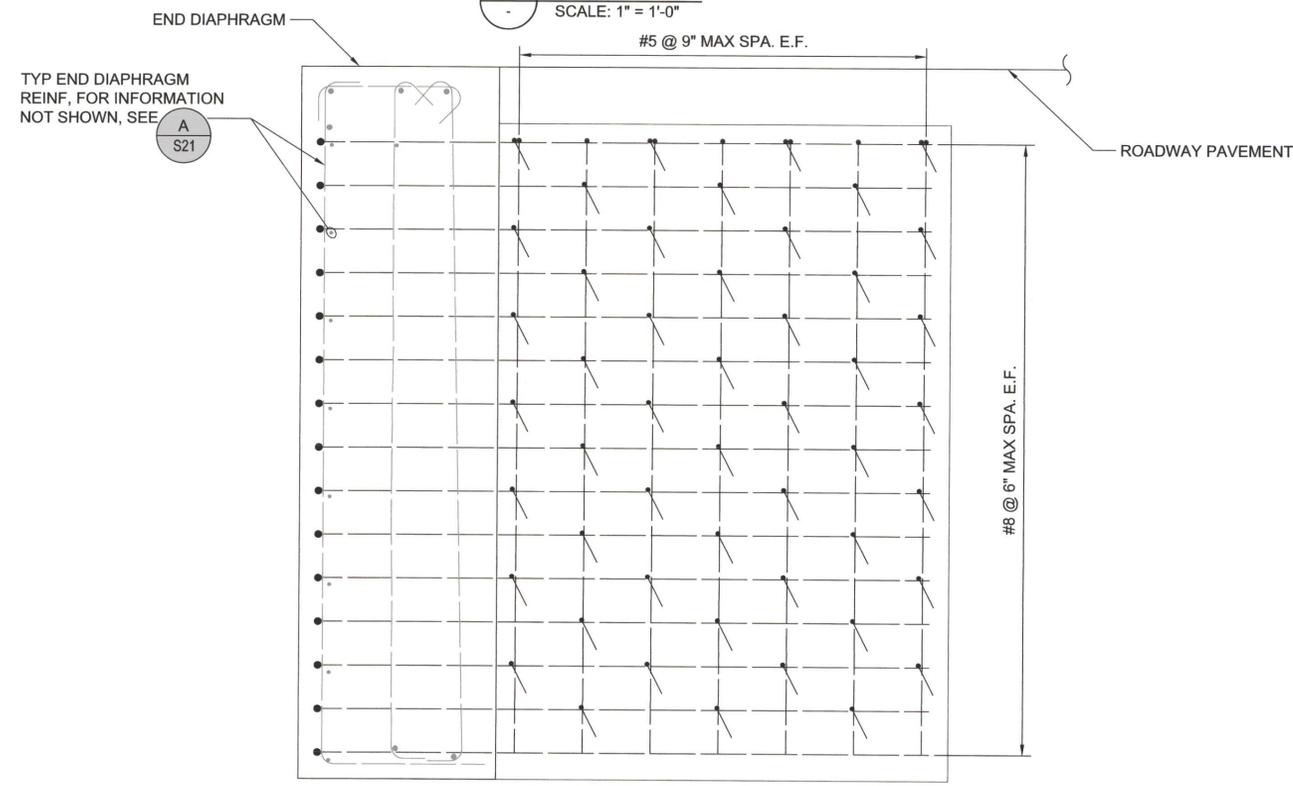
**TOWER ROAD BRIDGE
 AT ROCK CREEK**
DIAPHRAGM DETAILS - SHEET 1



PLAN - END DIAPHRAGM
SCALE: 1" = 2'-0"



SECTION A
SCALE: 1" = 1'-0"



SECTION B
SCALE: 1" = 1'-0"

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S22.dwg



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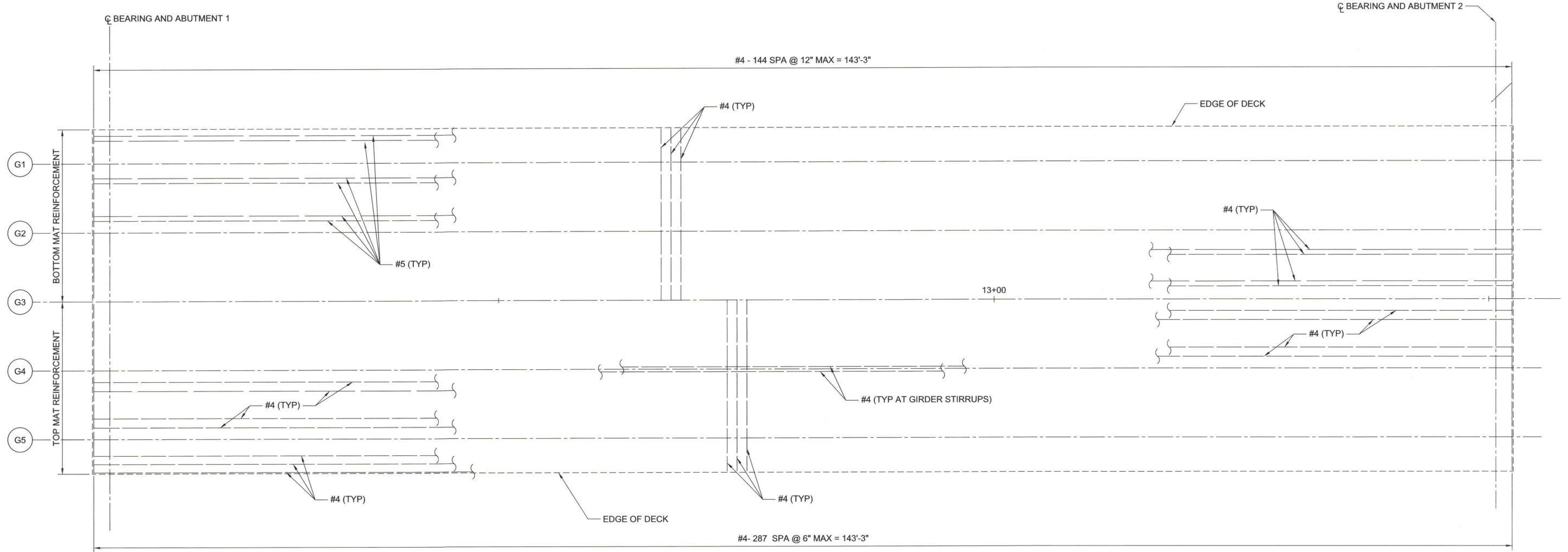
SEC 16 T 10 N R 1 W
CRP NO 788

**TOWER ROAD BRIDGE
AT ROCK CREEK**
DIAPHRAGM DETAILS - SHEET 3

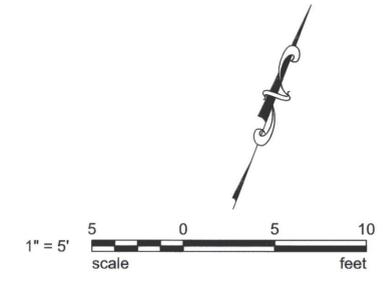
BID SET
SHEET
S22
54 OF 70

GENERAL SLAB REINFORCING NOTES:

1. LONGITUDINAL BARS ARE CONTINUOUS WITHIN EACH SPAN WITH MINIMUM LAP SPLICE LENGTH AS SHOWN ON PLANS. THE NUMBER AND LOCATION OF THE SPLICES ARE OPTIONAL UNLESS OTHERWISE SHOWN. CENTERLINE SPLICES IN ADJACENT LONGITUDINAL BARS MUST BE AT LEAST 6'-0" APART. NO MORE THAN 50% OF LONGITUDINAL BARS MAY BE SPLICED AT ANY ONE LOCATION.
2. NO MORE THAN 50% OF TRANSVERSE BARS MAY BE SPLICED AT ANY ONE LOCATION.
3. MINIMUM LAP SPLICE SHALL BE AS FOLLOWS:
 FOR #4 EPOXY COATED BARS - 2'-6"
 FOR #5 EPOXY COATED BARS - 3'-0"
 FOR #6 EPOXY COATED BARS - 3'-6"
4. CONTINUOUS LONGITUDINAL REINFORCEMENT SHALL NOT BE SPLICED WITHIN 25'-0" OF CENTERLINE OF PIER.
5. SEE SLAB REINFORCING CROSS SECTION FOR LOCATION AND SPACING OF REINFORCEMENT.
6. APPROXIMATELY 1/3 OF THE REINFORCEMENT BETWEEN EACH GIRDER AND IN EACH OVERHANG IS TO BE CUTOFF AT EACH CUTOFF LOCATION.



SLAB REINFORCING PLAN
SCALE: 1" = 5'



TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 5'
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S23.dwg

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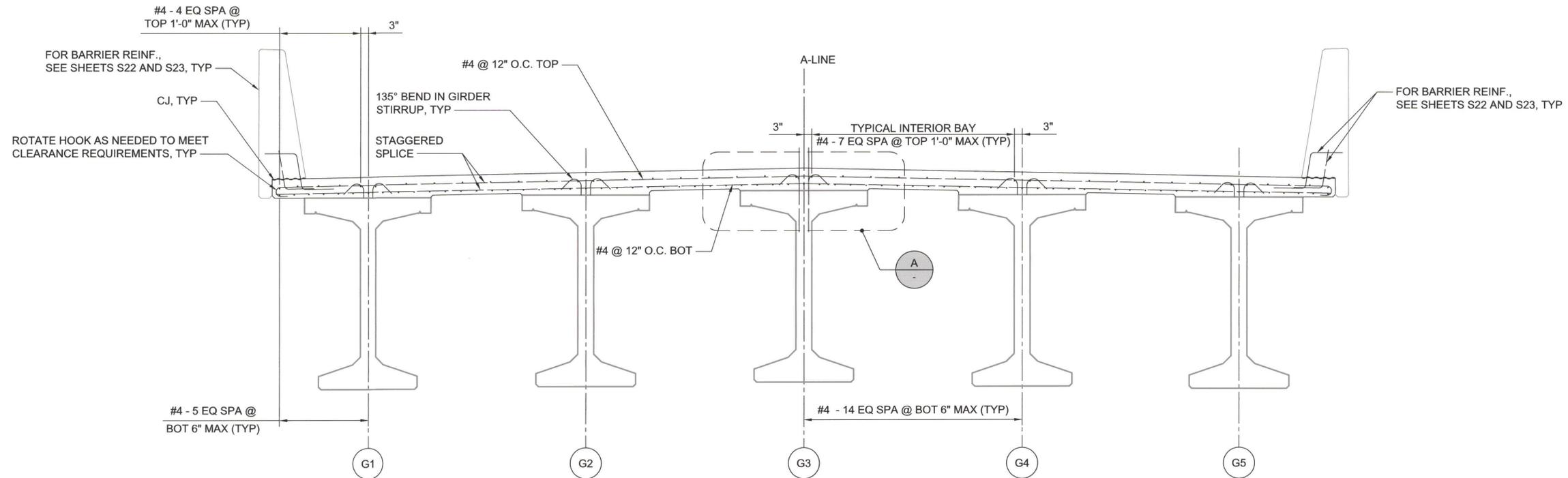
TOWER ROAD BRIDGE AT ROCK CREEK

SLAB REINFORCING PLAN

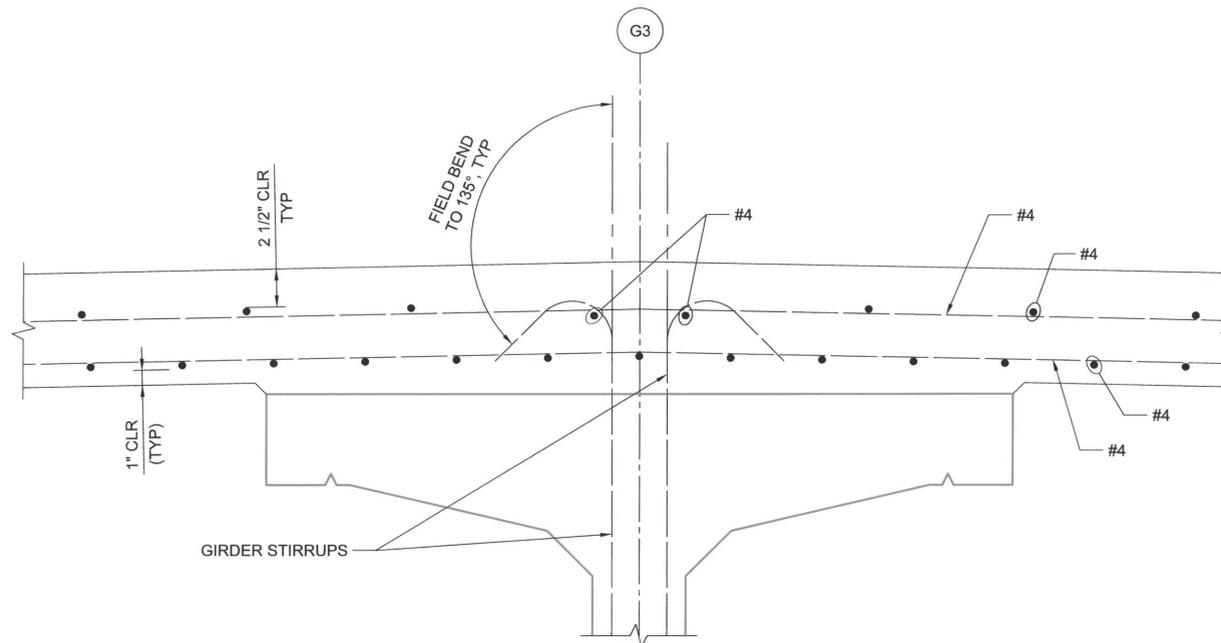
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SHEET **S23**

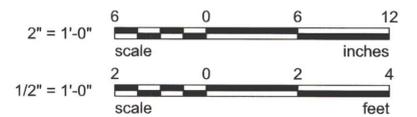
55 OF 70



TYPICAL SLAB REINFORCING SECTION
 SHOWN NEAR MIDSPAN
 SCALE: 1/2" = 1'



DETAIL - SLAB REINFORCING AT GIRDER STIRRUPS
 SCALE: 2" = 1'-0"



TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S24.dwg



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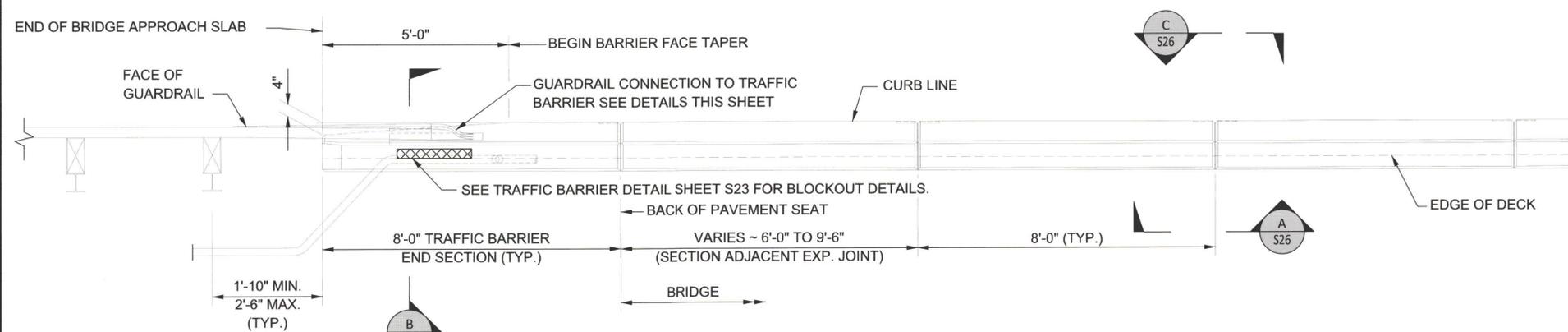
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 CRP NO 788

**TOWER ROAD BRIDGE
 AT ROCK CREEK**
**SLAB REINFORCING SECTION AND
 DETAILS**

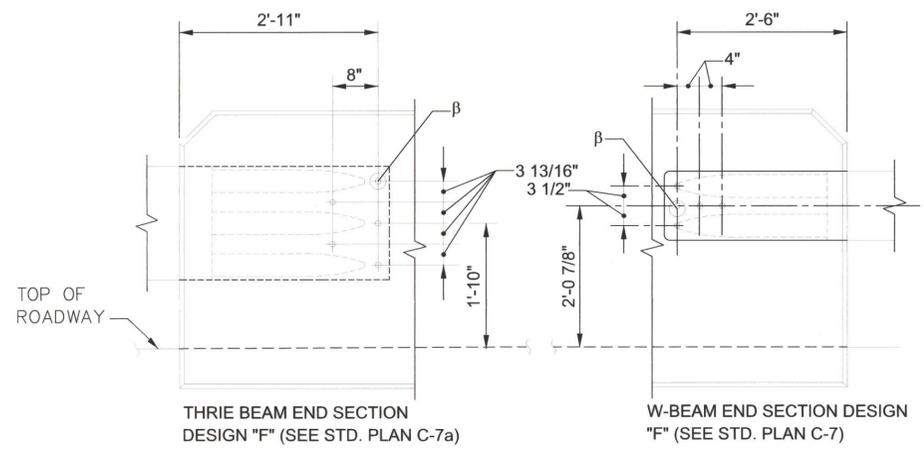
BID SET

SHEET
S24

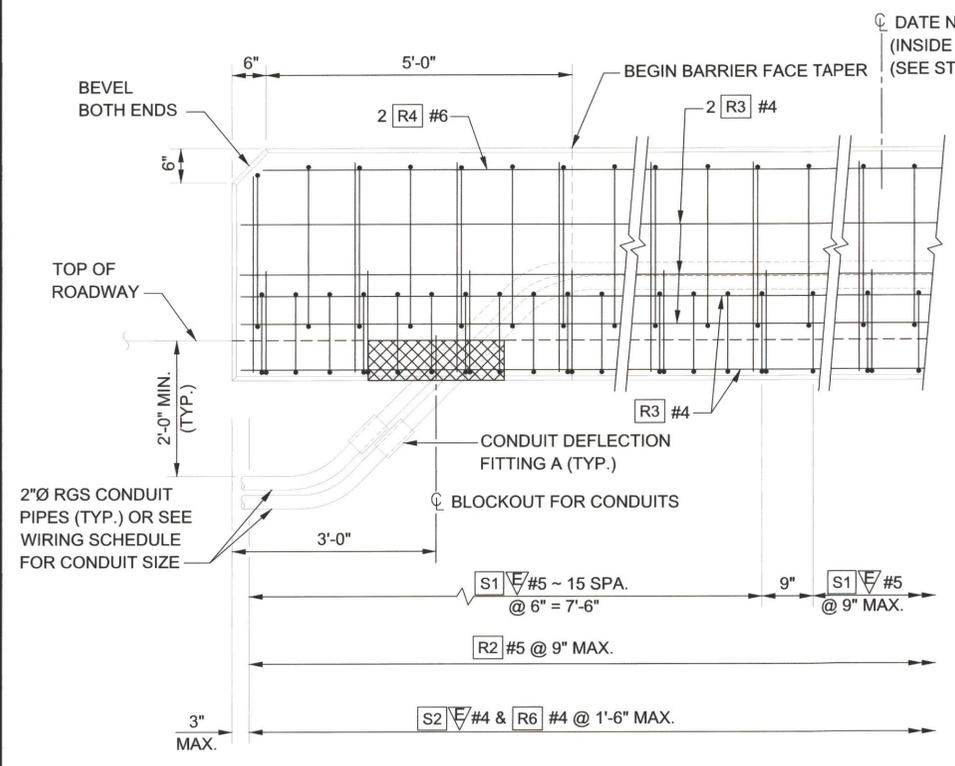
56 OF 70



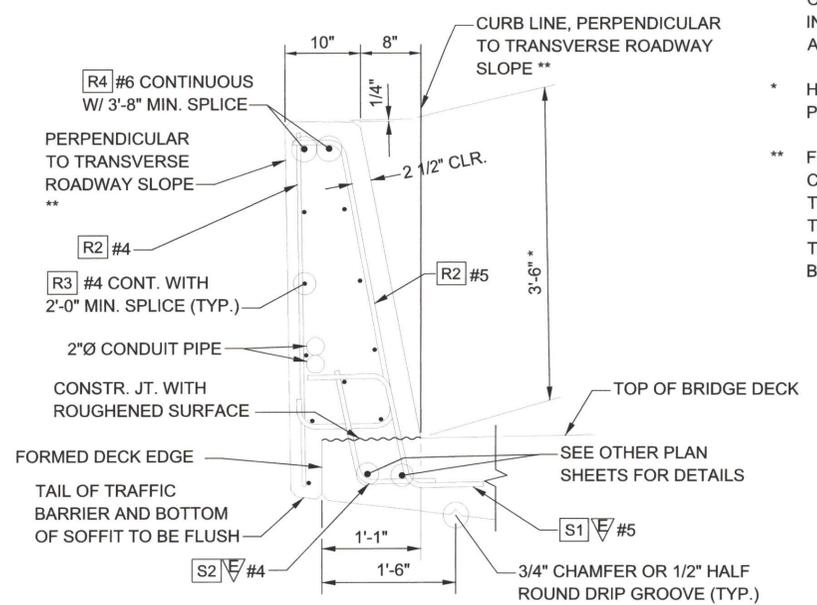
PLAN - TRAFFIC BARRIER
 SCALE: NONE
 BARRIER CONTINUOUS BETWEEN BRIDGE DECK EXPANSION JOINTS.
 CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
 FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



OUTSIDE ELEVATION TRAFFIC BARRIER - GUARDRAIL CONNECTION
 SCALE: NONE
 (WHERE SHOWN ON LAYOUT)



OUTSIDE ELEVATION - END OF TRAFFIC BARRIER
 SCALE: NONE
 SHOWN WITH BRIDGE APPROACH SLAB



TYPICAL SECTION - TRAFFIC BARRIER
 SCALE: NONE
 SHOWN ON BRIDGE

- β PROVIDE *Ø ROCKET/KOHLER F-50, LANCASTER MALLEABLE, OR DAYTON/RICHMOND F-62 FLARED THIN SLAB FERRULE INSERTS OR APPROVED EQUAL (TYP.). RESIN-BONDED ANCHORS MAY BE SUBSTITUTED.
- * HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE
- ** FOR TRANSVERSE BRIDGE DECK SLOPES GREATER THAN 8%, CHANGE THE NOTE TO THE FOLLOWING: FOR THE LOW SIDE OF THE BRIDGE OR MEDIAN BARRIER - "PERPENDICULAR TO 8% TRANSVERSE BRIDGE DECK SLOPE" FOR THE HIGH SIDE OF THE BRIDGE BARRIER - "PERPENDICULAR TO TRANSVERSE BRIDGE DECK SLOPE"

TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: NONE
 VERT. SCALE: NONE
 PROJECT ID: 1801
 ROAD NO. : 51200
 COMPUTER FILE: 07_S25.dwg

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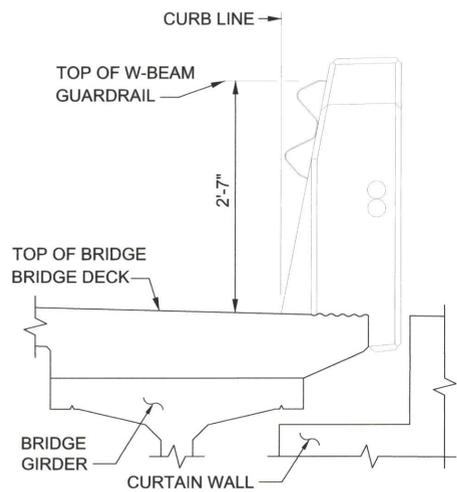


SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE
AT ROCK CREEK

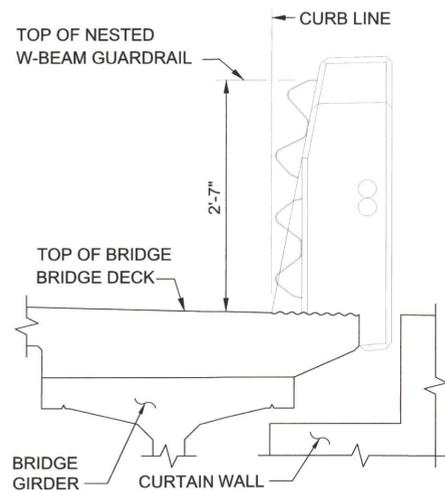
TRAFFIC BARRIER DETAILS - SHEET 1

BID SET
 SHEET
S25
57 OF 70



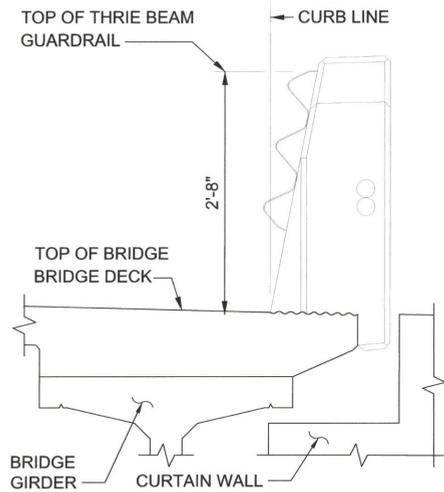
END VIEW
SCALE: NONE

W-BEAM SHOWN WITH "D" CONNECTION OR "F" CONNECTION (SEE STD. PLAN C-7).



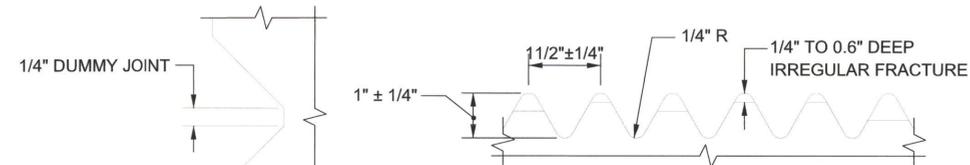
END VIEW
SCALE: NONE

NESTED W-BEAM WITH RUBRAIL SHOWN (SEE STD. PLAN C-25.18-02 AND C-7a)
BARRIER TOE TAPER NOT REQUIRED.

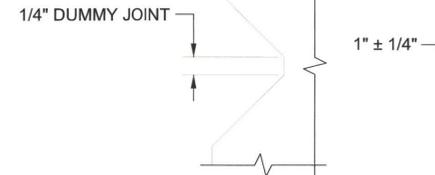


END VIEW
SCALE: NONE

THRIE BEAM SHOWN WITH "D" CONNECTION OR "F" CONNECTION (SEE STD. PLAN C-7a)



DETAIL - FRACTURED FIN FINISH
SCALE: NONE



DETAIL - DUMMY JOINT
SCALE: NONE

JUNCTION BOX LOCATIONS

STATION	OFFSET	"TS" OR "LT"
STA"A" 12+81	16.75' LT	LT
STA"A" 12+81	16.75' RT	LT

TS = TRAFFIC SYSTEM
LT = LIGHTING SYSTEM

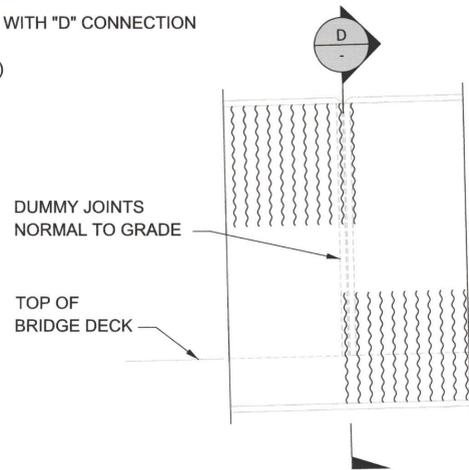
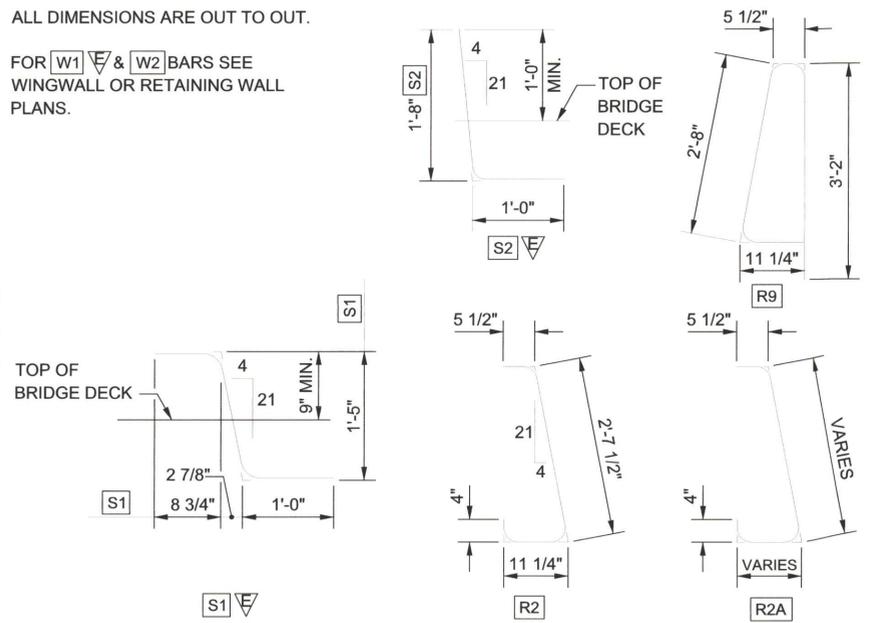
JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE. CENTER JUNCTION BOX INSTALLATION BETWEEN BARRIER DUMMY JOINTS.

INSTALL ALL CONDUIT RUNS TO DRAIN TO A BRIDGE END OR PROVIDE DRAIN AT ALL LOW POINTS IN CONDUIT RUN ON BRIDGE.

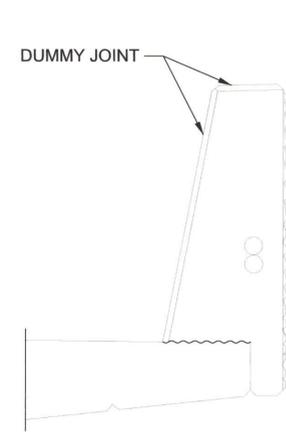
BENDING DIAGRAM

ALL DIMENSIONS ARE OUT TO OUT.

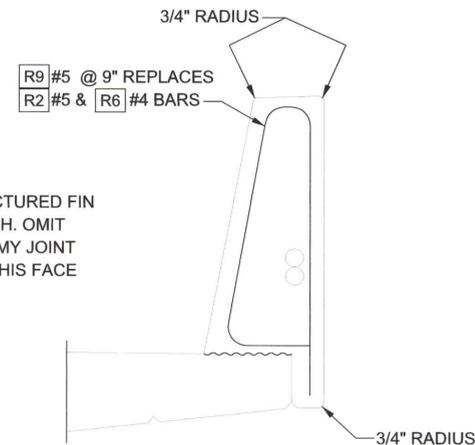
FOR W1 & W2 BARS SEE WINGWALL OR RETAINING WALL PLANS.



ELEVATION VIEW
SCALE: NONE



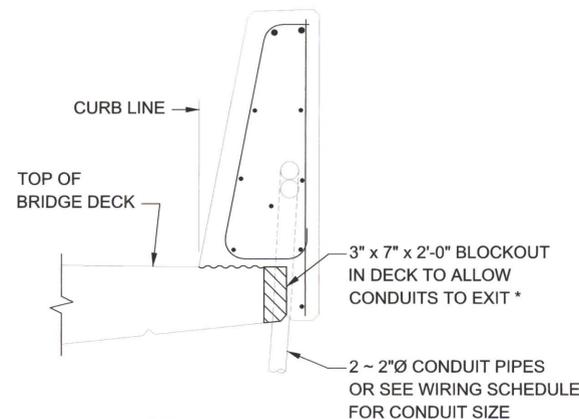
SECTION
SCALE: NONE



SLIPFORM ALTERNATIVE
SCALE: NONE

SEE "TYPICAL SECTION - TRAFFIC BARRIER" FOR ADDITIONAL DETAILS.

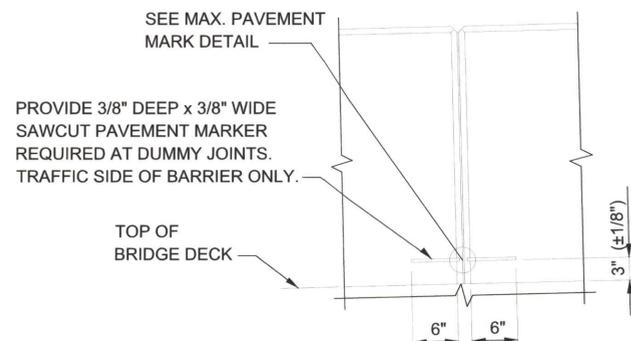
THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIERS WITH A FRACTURED FIN FINISH.



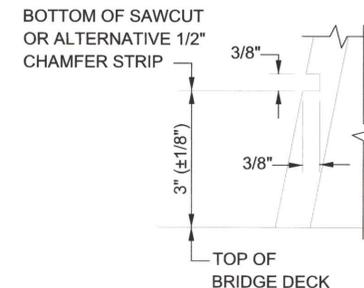
SECTION - BRIDGE
SCALE: NONE

DETAIL FOR BRIDGE FOR DETAILS NOT SHOWN SEE "OUTSIDE ELEVATION" AND "TYPICAL SECTION - TRAFFIC BARRIER"

BLOCKOUT WIDTH MAY BE INCREASED TO 6" TO ALLOW CONDUITS OF A LARGER DIAMETER THAN 2" TO EXIT BARRIER OR WALL WITHOUT REBAR STEEL CONFLICT



ELEVATION VIEW
SCALE: NONE



BID SET

TDB PROJECT MANAGER 2/4/26 DATE
JGH DRAWN BY 2/4/26 DATE
SCB CHECKED BY 2/4/26 DATE

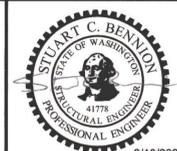
HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S26.dwg



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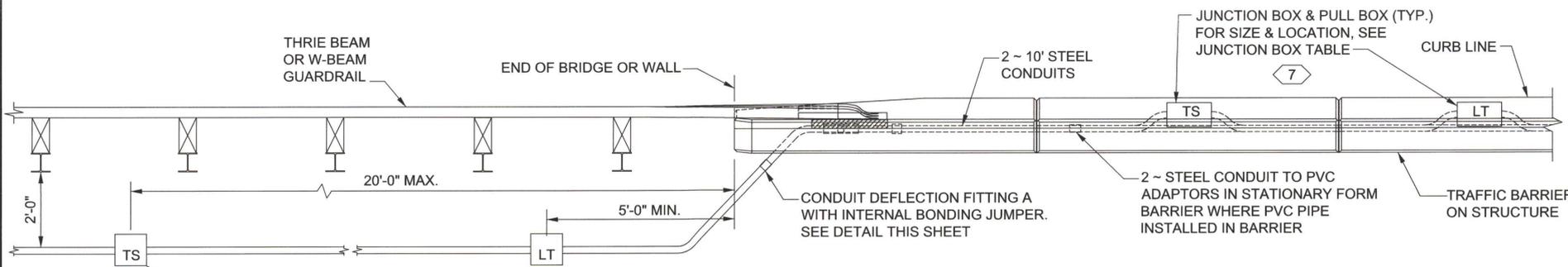
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK

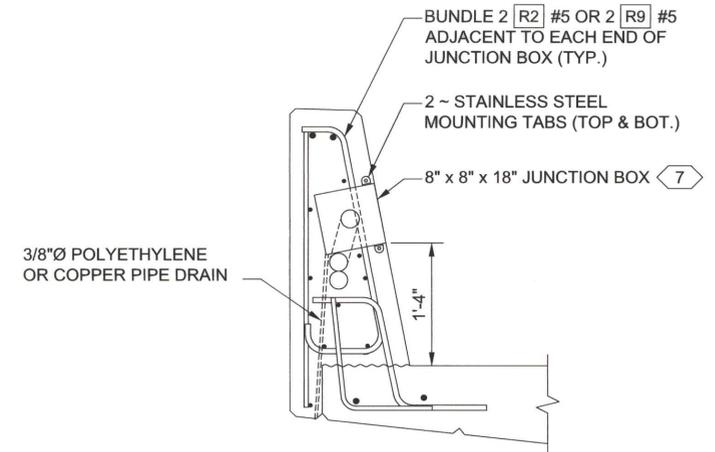
TRAFFIC BARRIER DETAILS - SHEET 2

SHEET **S26**

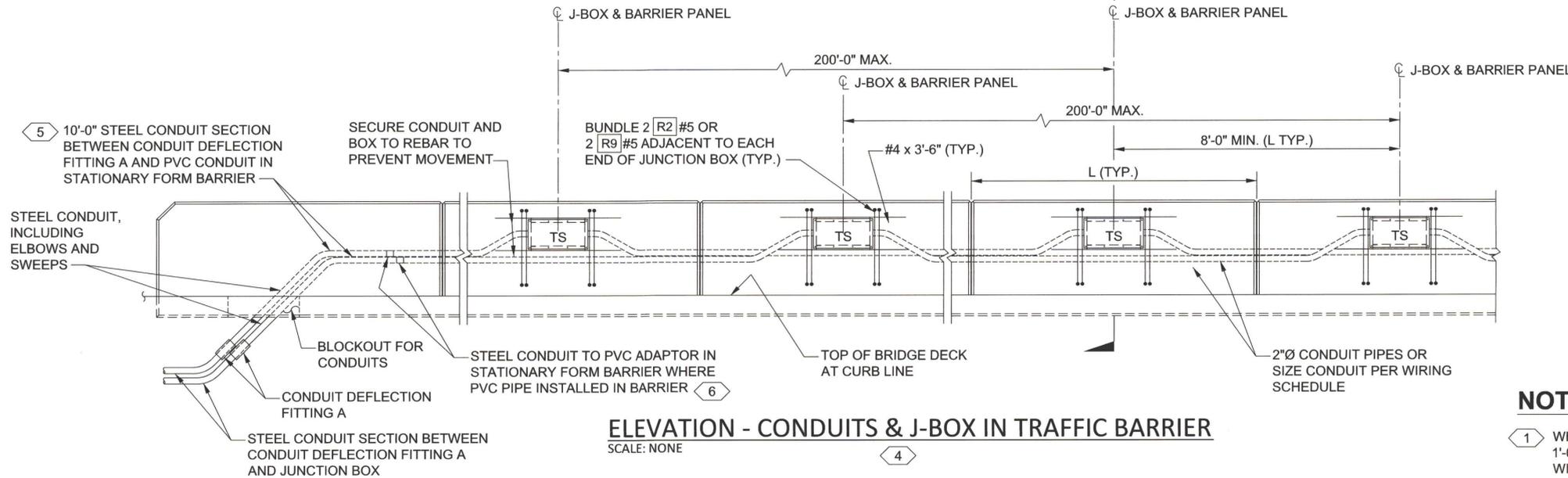
58 OF 70



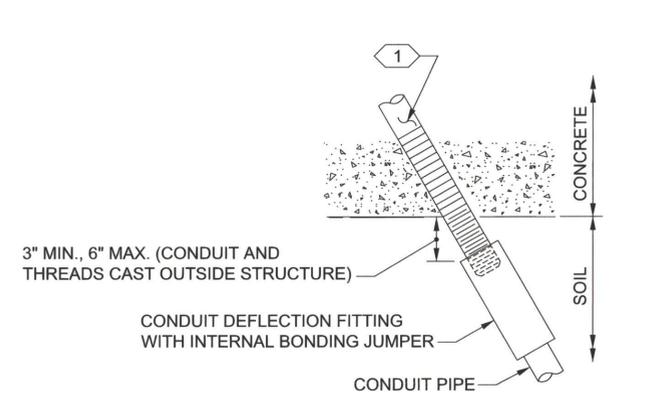
PLAN - CONDUITS & J-BOX IN TRAFFIC BARRIER
SCALE: NONE



SECTION A
SCALE: NONE

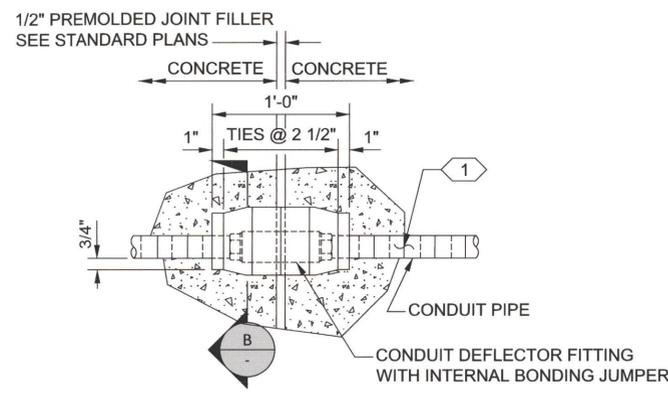


ELEVATION - CONDUITS & J-BOX IN TRAFFIC BARRIER
SCALE: NONE



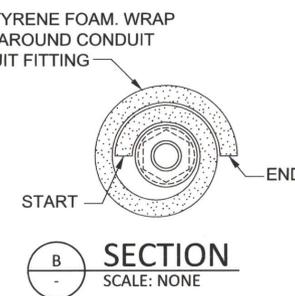
DETAIL - CONDUIT DEFLECTION FITTING A
SCALE: NONE

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT.



DETAIL - CONDUIT DEFLECTION FITTING B
SCALE: NONE

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT.



SECTION B
SCALE: NONE

NOTES:

- 1 WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP.
- 2 PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE AND SHALL BE IN NEUTRAL STATE AFTER INSTALLATION.
- 3 CONDUIT PIPES PLACED THROUGH RETAINING WALL TRAFFIC BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT A MAXIMUM SPACING OF 120'. THE DEFLECTION FITTINGS SHALL BE PLACED AT THE TRAFFIC BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL EXPANSION JOINT.
- 4 LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-29.2(4). ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ON EITHER SIDE OF THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.
- 5 TERMINATE STEEL CONDUIT IN JUNCTION BOX IF LESS THAN 10'-0" FROM ELBOW OR SWEEP.
- 6 INSTALL ONLY WHERE CONDUIT IS HORIZONTAL.
- 7 NEMA 4X IN STATIONARY FORM BARRIER, OR NEMA 3R IN SLIP FORM BARRIER. MOUNT JUNCTION BOX SO COVER IS FLUSH WITH BARRIER, CAN BE RECESSED UP TO 1/4".
- 8 3'-0" LONG EXPANDED POLYSTYRENE SLEEVE AROUND CONDUIT. DUCT TAPE SEAMS AND ENDS TO SEAL AND PREVENT CONCRETE FROM BONDING WITH FITTING AND CONDUIT.

TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

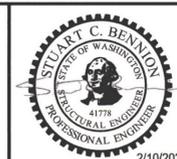
HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S27.dwg



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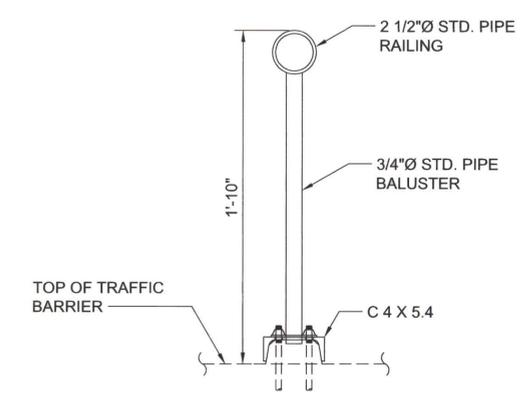
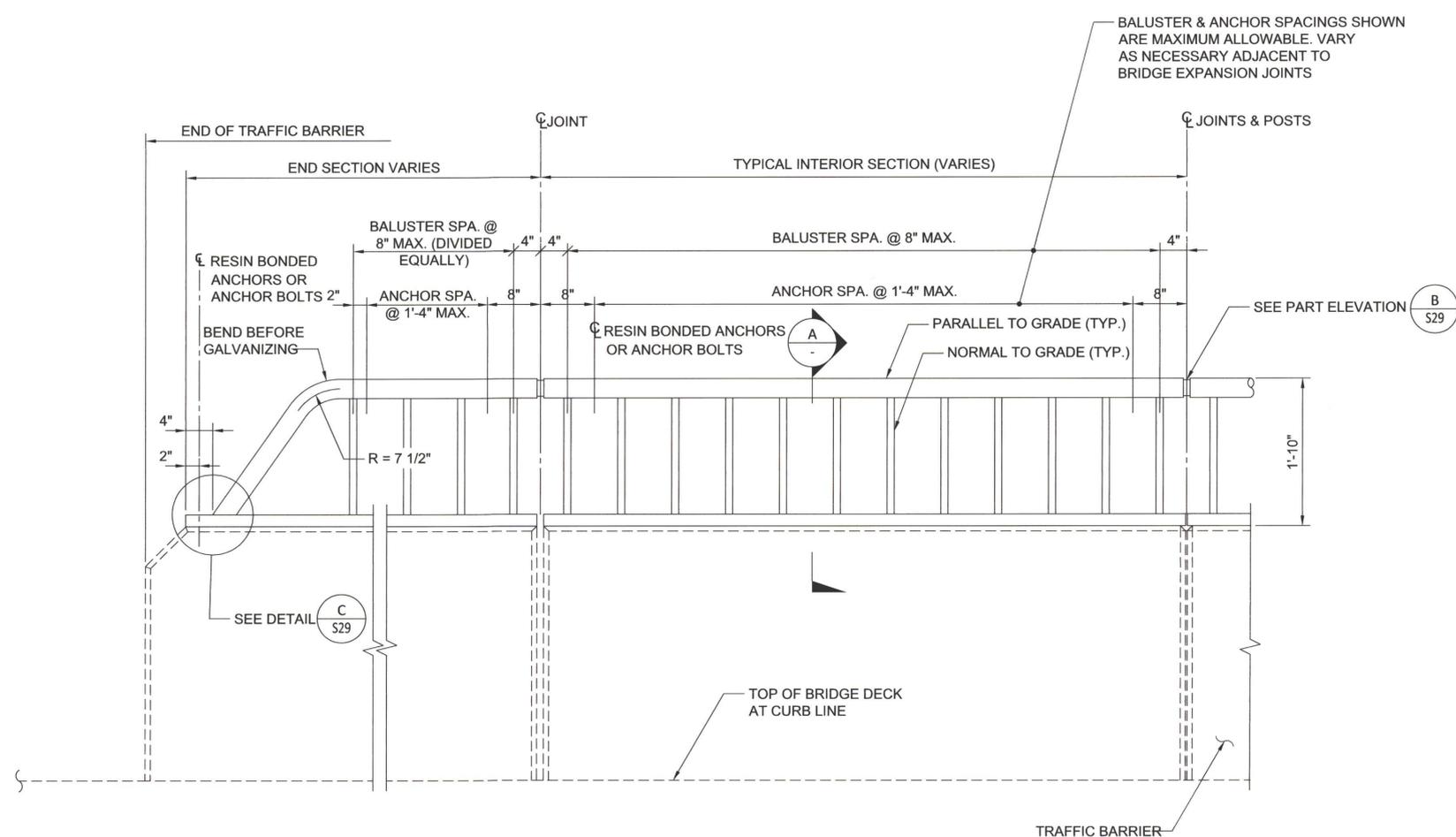
**TOWER ROAD BRIDGE
AT ROCK CREEK**
TRAFFIC BARRIER DETAILS - SHEET 3

BID SET
SHEET
S27
59 OF 70

MAT'L	PART	MATERIAL SPECIFICATION
STEEL	PIPES	ASTM A53 GRADE B SCHEDULE 40 (STD. PIPE). GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
	WASHERS	ASTM A 193 GRADE B7 GALVANIZED IN ACCORDANCE WITH AASHTO M 232
	PLATES/BAR CHANNELS	ASTM A 36 GALVANIZED IN ACCORDANCE WITH AASHTO M 111
	DRIVE PINS	ASTM A 276 TYPE 302 STAINLESS STEEL
	ANCHOR BOLTS	ASTM F 593 TYPE 302 STAINLESS STEEL
	NUTS	TAMPER-PROOF TYPE OF EITHER CLEAR ANODIZED ALUMINUM OR ZINC ALLOY

NOTES

- PIPE RAILING AND PIPE RAILING SPLICES SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- WELDING OF ALUMINUM SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.



ELEVATION
SCALE: NONE
BALUSTER ATTACHMENT DETAILS NOT SHOWN

TDB PROJECT MANAGER	2/4/26
JGH DRAWN BY	2/4/26
SCB CHECKED BY	2/4/26

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S28.dwg



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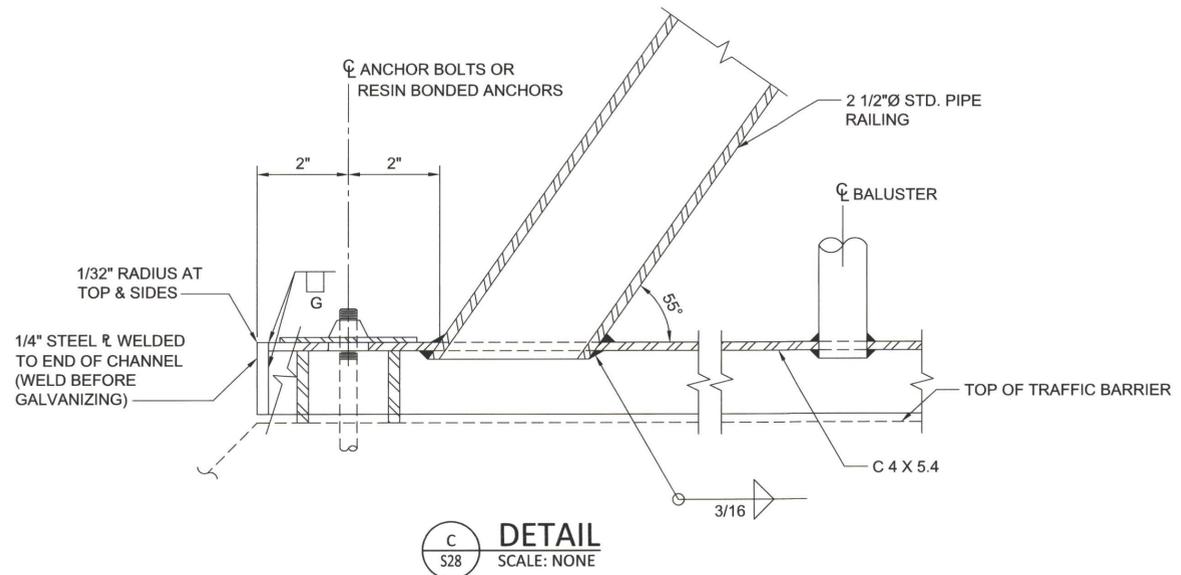
WSP USA Inc.
1300 SW 5TH AVE, Suite 3100
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FAX: 503-872-4101



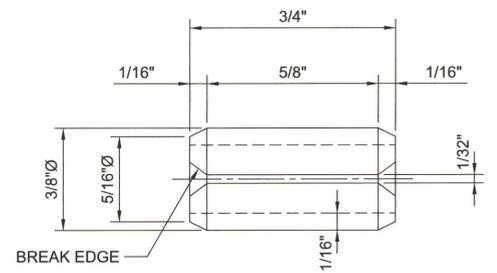
SEC 16 T 10 N R 1 W
CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
BP RAILING DETAILS - SHEET 1

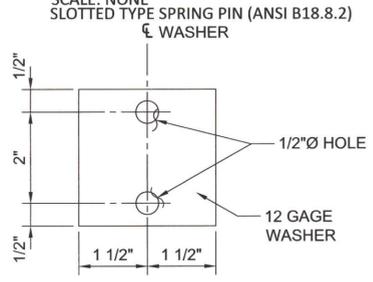
BID SET
SHEET **S28**
60 OF 70



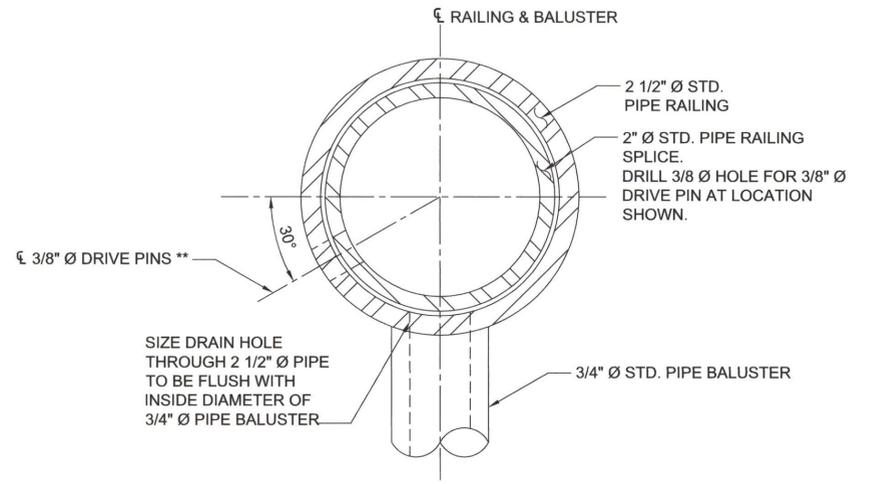
C
SCALE: NONE



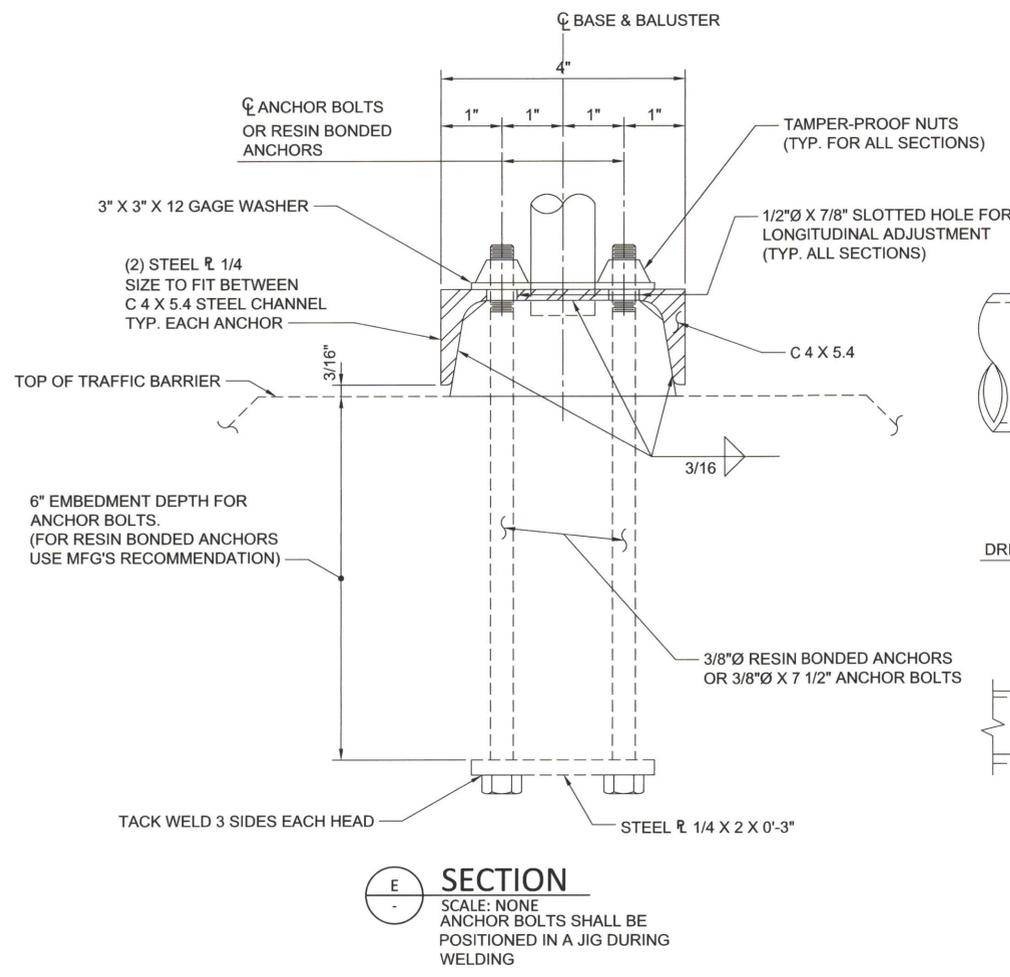
DRIVE PIN DETAIL
SCALE: NONE
SLOTTED TYPE SPRING PIN (ANSI B18.8.2)



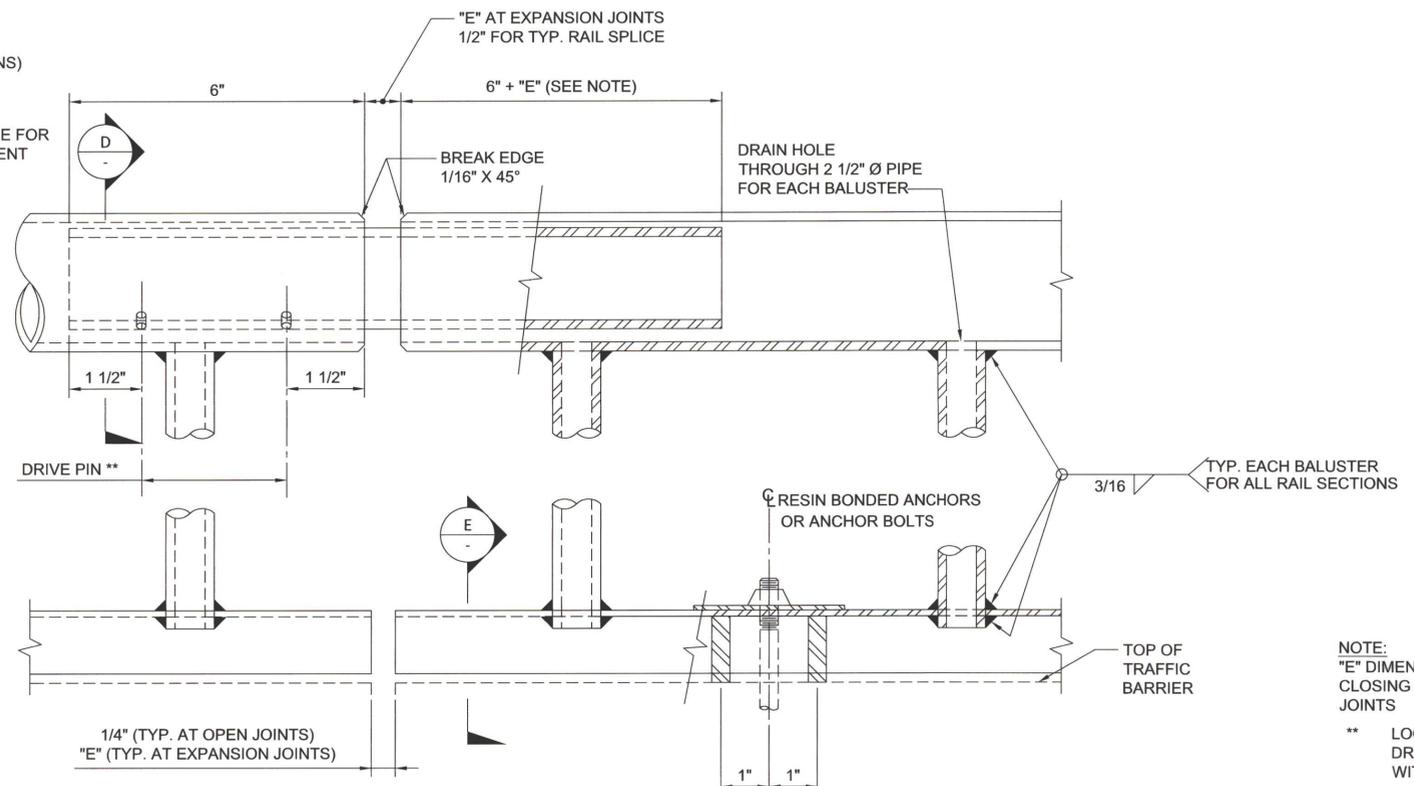
WASHER DETAIL
SCALE: NONE
HOT DIP GALVANIZE AFTER FABRICATION



D
SECTION
SCALE: NONE



E
SECTION
SCALE: NONE
ANCHOR BOLTS SHALL BE POSITIONED IN A JIG DURING WELDING



B
PART ELEVATION
SCALE: NONE

NOTE:
"E" DIMENSION EQUALS MAX. OPENING OR CLOSING OF CONC. RAIL BASE AT EXPANSION JOINTS
** LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING

TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: NONE	VERT. SCALE: NONE
PROJECT ID: 1801	ROAD NO.: 51200
COMPUTER FILE: 07_S29.dwg	



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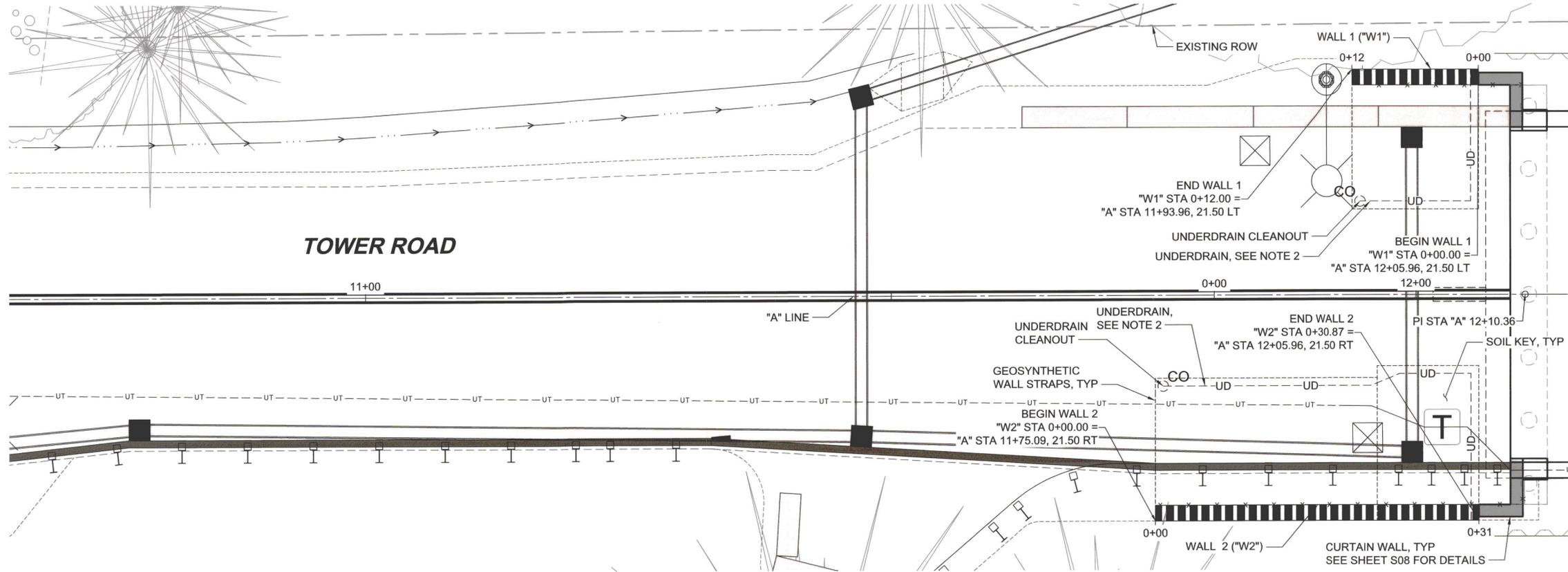


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FAX: 503-872-4101



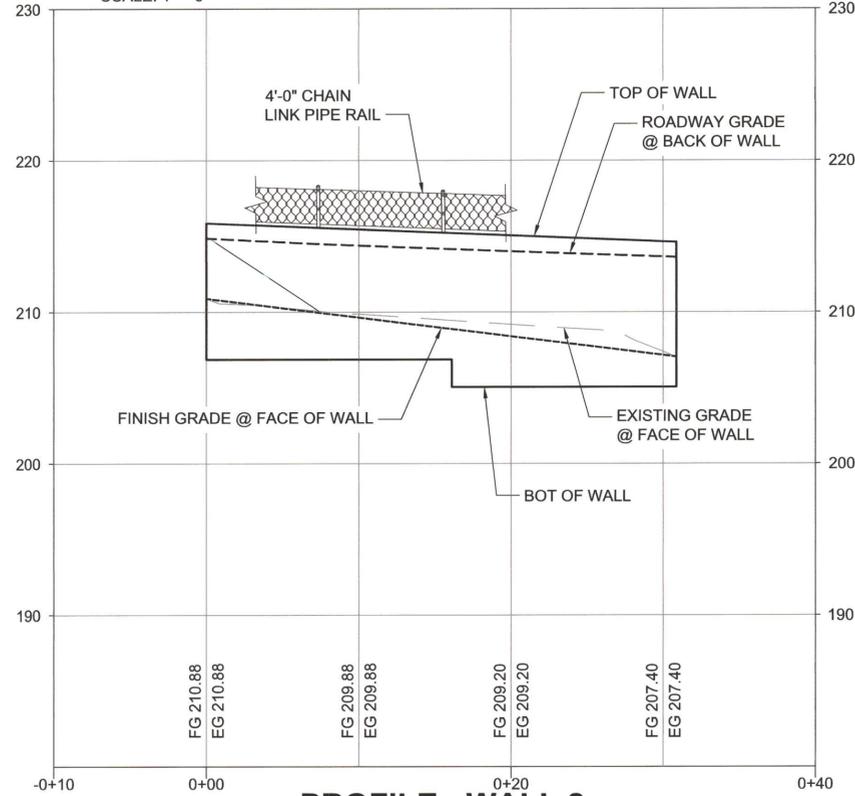
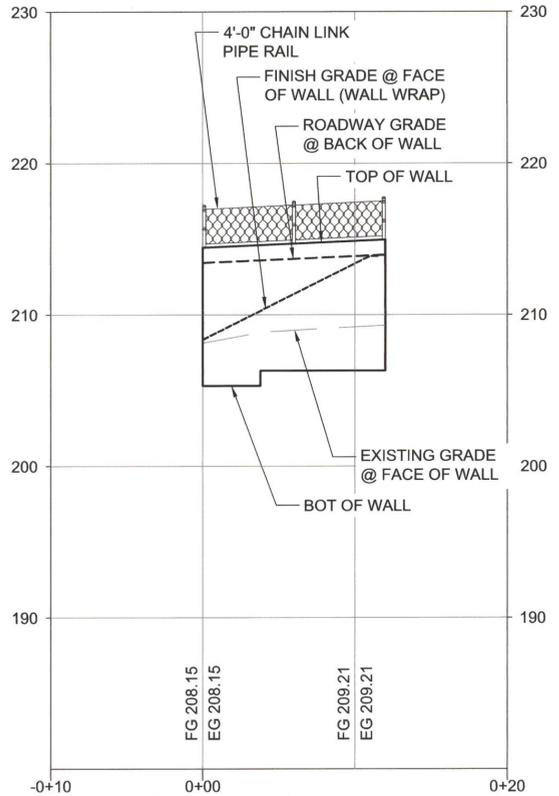
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CRP NO 788

TOWER ROAD BRIDGE AT ROCK CREEK
BP RAILING DETAILS - SHEET 2



- NOTES:**
- BOTTOM OF WALL IS SHOWN CONCEPTUALLY. CONTRACTOR TO DETERMINE ACTUAL LOCATION OF WALL. BOTTOM OF WALL SHALL BE A MINIMUM OF 2'-0" BELOW FINISHED GRADE AND BE IN ACCORDANCE WITH WSDOT STD. PLAN D-3.10-01.
 - UNDERDRAIN BEHIND STRAPS IS CONCEPTUALLY SHOWN, UNDERDRAIN SHALL BE DAYLIGHTED TO DRAIN.

PLAN - WALL 1 AND WALL 2
SCALE: 1" = 6'



TDB PROJECT MANAGER	2/4/26 DATE
JGH DRAWN BY	2/4/26 DATE
SCB CHECKED BY	2/4/26 DATE

HORIZ. SCALE: 1" = 6'
VERT. SCALE: 1" = 6'
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S30.dwg



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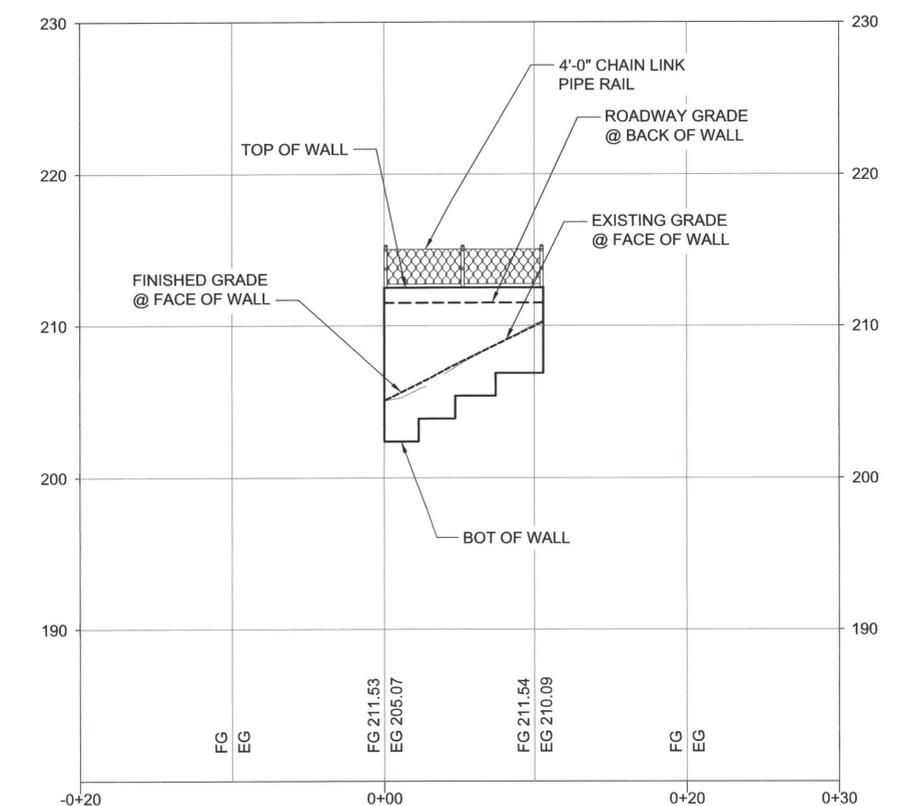
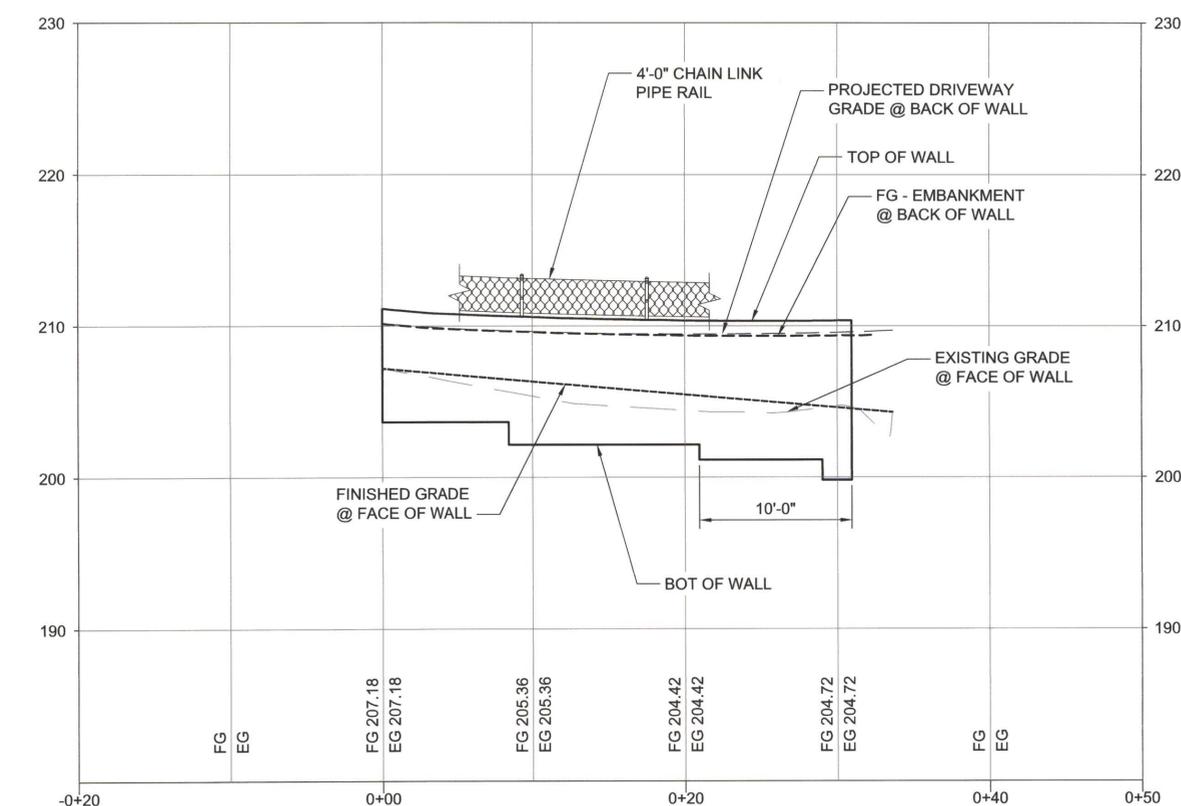
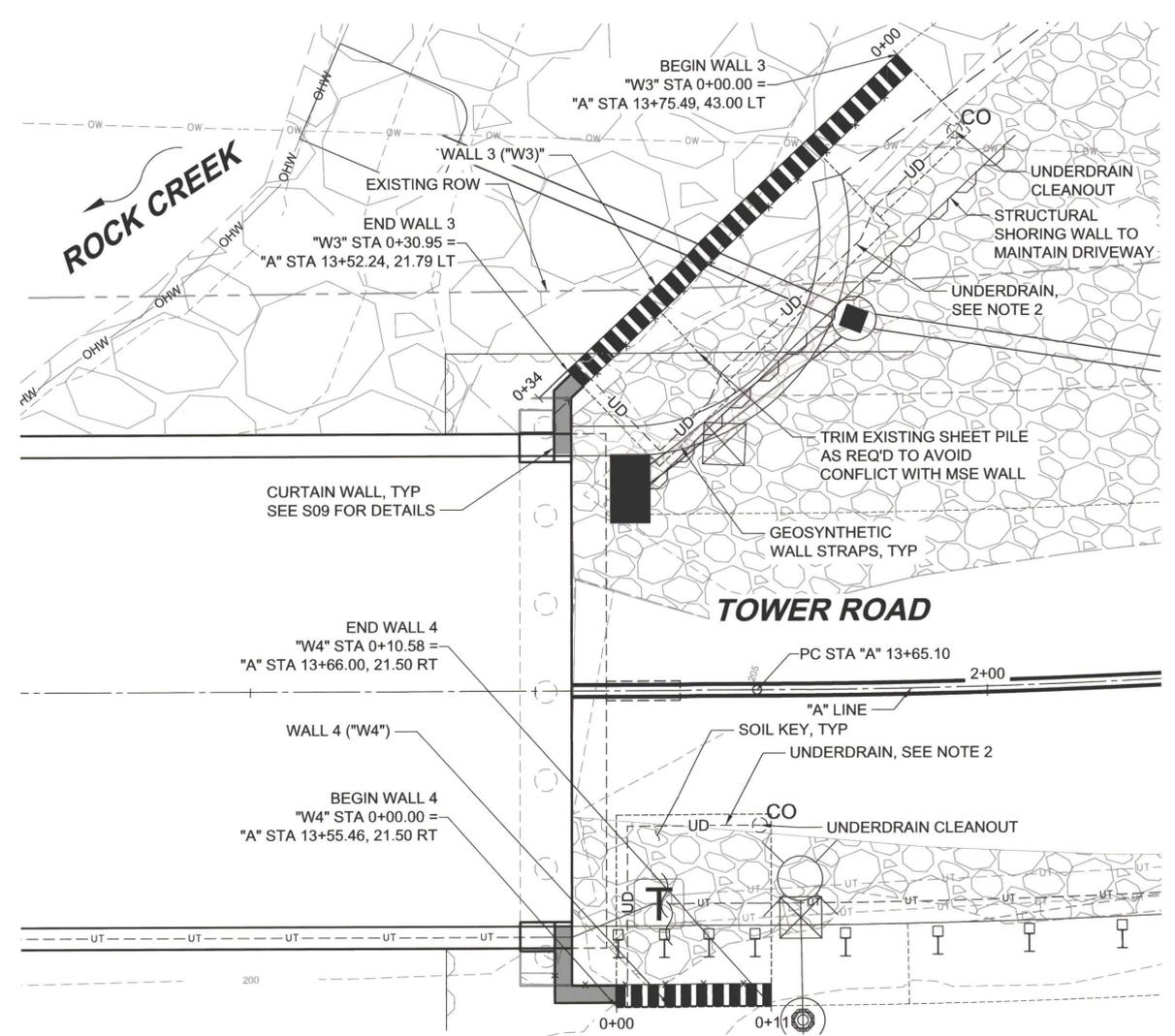
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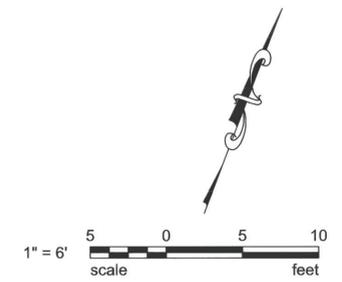
TOWER ROAD BRIDGE AT ROCK CREEK
PLAN & PROFILE - WALL 1 & 2

BID SET
SHEET **S30**
62 OF 70



NOTES:

1. BOTTOM OF WALL IS SHOWN CONCEPTUALLY. CONTRACTOR TO DETERMINE ACTUAL LOCATION OF WALL. BOTTOM OF WALL SHALL BE A MINIMUM OF 2'-0" BELOW FINISHED GRADE AND BE IN ACCORDANCE WITH WSDOT STD. PLAN D-3.10-01.
2. UNDERDRAIN BEHIND STRAPS IS CONCEPTUALLY SHOWN, UNDERDRAIN SHALL BE DAYLIGHTED TO DRAIN.



TDB	2/4/26
PROJECT MANAGER	DATE
JGH	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

HORIZ. SCALE: 1" = 6'
VERT. SCALE: 1" = 6'
PROJECT ID: 1801
ROAD NO. : 51200
COMPUTER FILE: 07_S31.dwg

COWLITZ COUNTY
WASHINGTON

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FAX: 503-872-4101

STUART C. BEANSON
REGISTERED PROFESSIONAL ENGINEER
4178
2/10/2026

SEC 16 T 10 N R 1 W
CRP NO 788

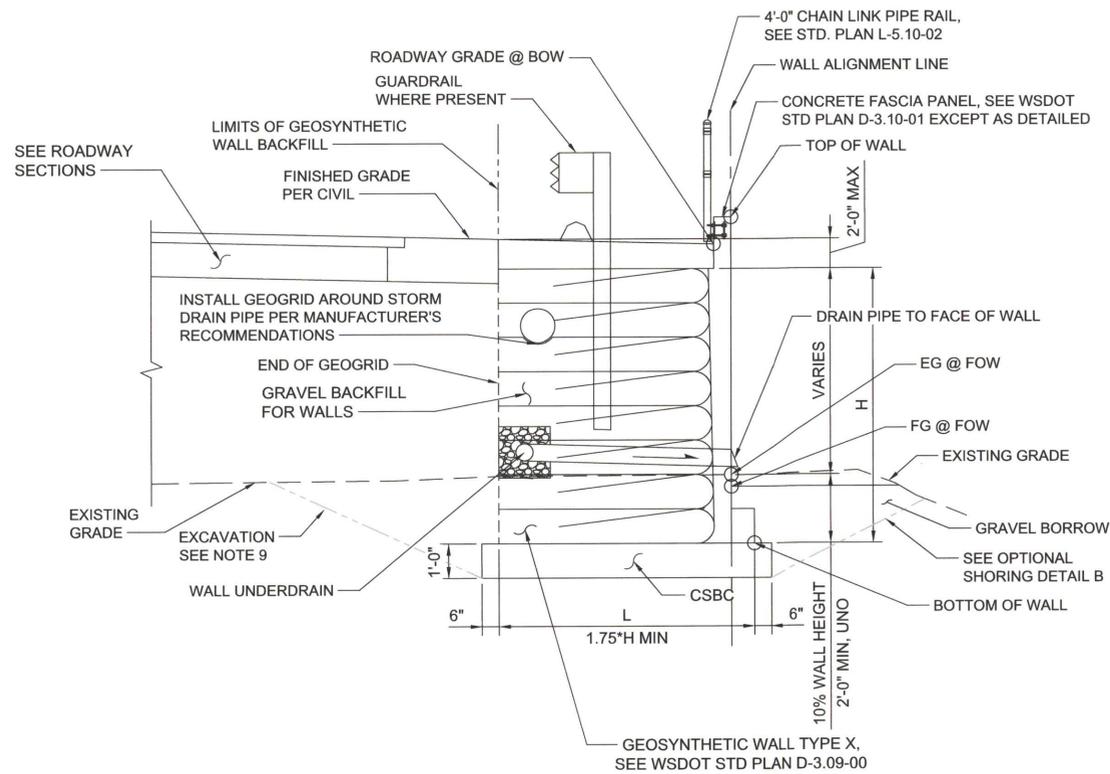
TOWER ROAD BRIDGE
AT ROCK CREEK

PLAN & PROFILE - WALL 3 & 4

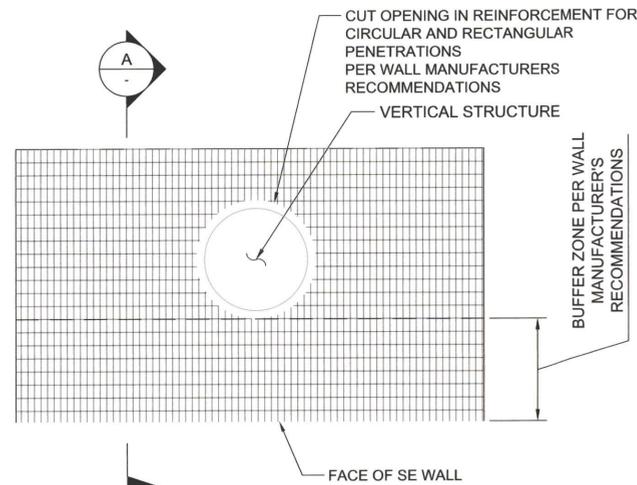
BID SET

SHEET **S31**

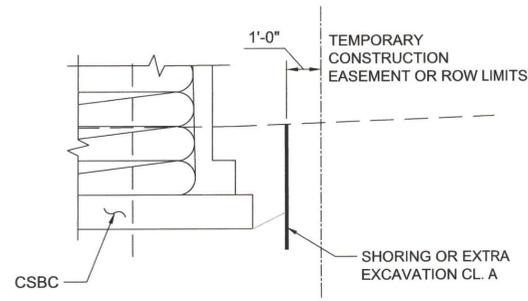
63 OF 70



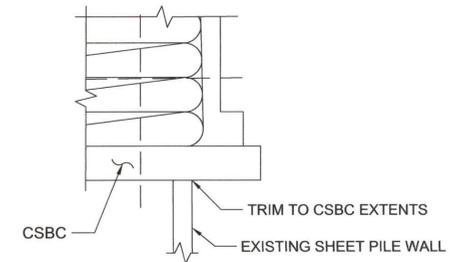
A
 -
TYPICAL GEOSYNTHETIC WALL SECTION
 SCALE: NONE



1
 -
TYPICAL PLAN VIEW PENETRATION DETAIL
 SCALE: NONE



B
 -
SHORING DETAIL
 SCALE: NONE (SEE NOTE 9)



C
 -
SHEET PILE TRIMMING DETAIL
 SCALE: NONE

GEOSYNTHETIC WALL NOTES:

1. UNLESS NOTED OTHERWISE, DESIGN HEIGHTS, H, FOR THE PURPOSE OF DETERMINING GEOSYNTHETIC STEP LENGTH, SHALL BE DETERMINED FROM THE WALL ALIGNMENT AND PROFILE DRAWINGS AND IS DEFINED AS FOLLOWS:

$$H = h + \text{MAX}(2'-0", 0.10 \times h)$$

WHERE, $h = \text{FG @ BOW} - \text{FG @ FOW}$

- BACKFILL FOR GEOSYNTHETIC WALLS SHALL BE "GRAVEL BORROW FOR STRUCTURAL EARTH WALLS" IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 6-14.
- BACKFILL AND EXCAVATION LIMITS AS SPECIFIED IN STANDARD PLAN D-3.09-00.
- FOUNDATION FOR THE STRUCTURAL EARTH WALL SHALL BE CRUSHED SURFACING BASE COURSE PER WSDOT STANDARD SPECIFICATION 9-03.9(3).
- DRAIN PIPE TO THE FACE OF WALL PER WSDOT STD SPEC 9-05.1(5) SHALL BE PLACED PER PLAN WITH 0.5% SLOPE. SEE SHEET S33 FOR UNDERDRAIN DETAILS.
- SEE STORM WATER PLANS FOR DETAILS REGARDING STORM STRUCTURES AND PIPING.
- THE DESIGN OF TEMPORARY SLOPES AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH SECTION 2-09.3(3) OF THE WSDOT STANDARD SPECIFICATION.
- WALL MANUFACTURER SHALL BE MADE AWARE OF ALL ANTICIPATED OBSTRUCTIONS OR PENETRATIONS WITH THE GEOTEXTILE REINFORCED ZONE FOR STRUCTURAL EARTH WALLS INCLUDING UNDERDRAINS, GUARDRAIL POSTS, FENCE POSTS, STORMWATER PIPE, STORMWATER STRUCTURES, AND FOUNDATIONS. THE WALL MANUFACTURER SHALL DESIGN THE WALL TO ACCOMADATE THESE OBSTRUCTIONS AND SHOW ALL ANTICIPATED OBSTRUCTIONS ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.
- STD PLAN FENCE L-5.10 NOT SHOWN FOR CLARITY. LIMITS EXTEND OVER BOTH RETAINING WALL AND CURTAIN WALL.
- FASCIA OF WALL LINES OF WITH FRONT FACE OF CURTAIN WALLS. PLACE 1/2" PREMOLDED JOINT FILLER BETWEEN WALL FASCIA AND CURTAIN WALL.
- CONCRETE FINISH SHALL BE CLASS 2.
- PIGMENTED SEALER SHALL BE EXTENDED A MINIMUM OF 1'-0" BELOW FINISHED GRADE OF RETAINING WALL AT BOTH FACE AND BACK OF WALL.

TDB	2/4/26
PROJECT MANAGER	DATE
KLB	2/4/26
DRAWN BY	DATE
SCB	2/4/26
CHECKED BY	DATE

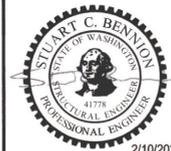
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 VERT. SCALE: NONE
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 COMPUTER FILE: 07_S32.dwg



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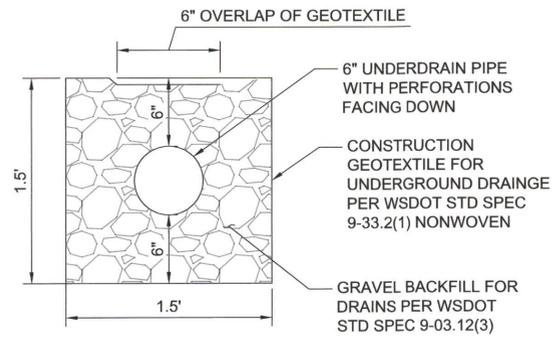
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 1300 SW 5TH AVE,
 Suite 3100
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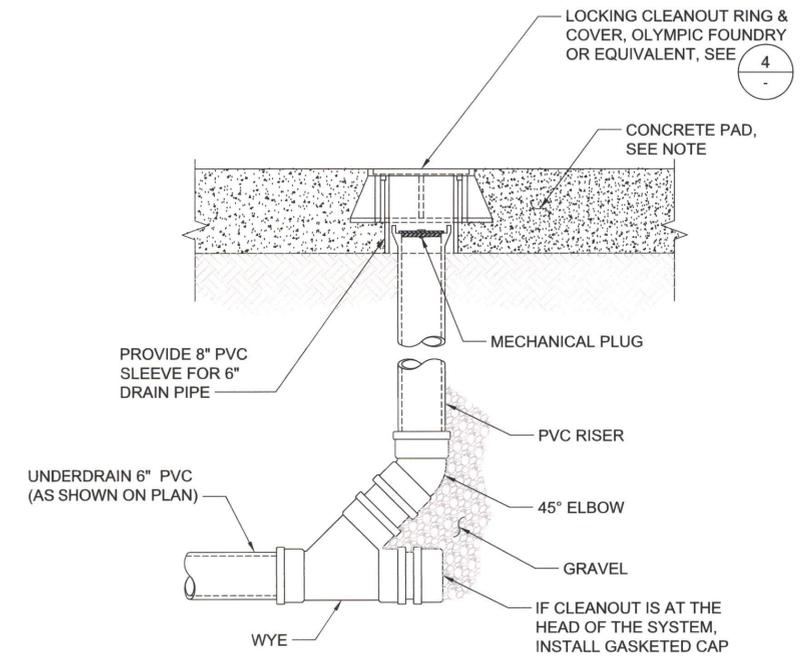
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 CRP NO 788

**TOWER ROAD BRIDGE
 AT ROCK CREEK**
WALL DETAILS - SHEET 1

BID SET
 SHEET
S32
64 OF 70



1 WALL DRAIN
SCALE: NONE

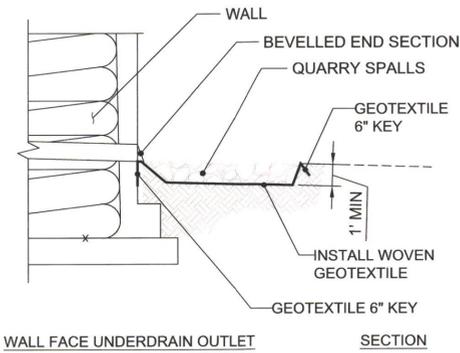


NOTE:
PROVIDE 1' THICK, 2' SQUARE CONCRETE, CLASS 3000 PAD AROUND RING & COVER IN NON-PAVED AREAS

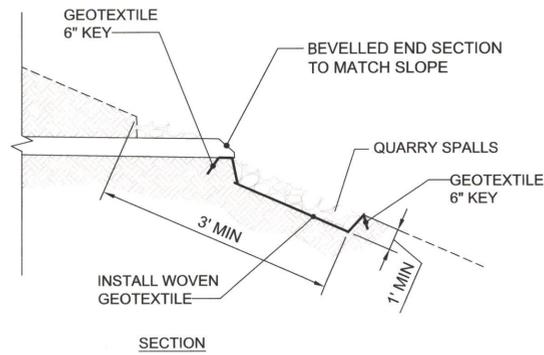
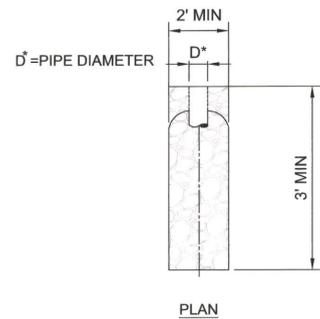
3 UNDERDRAIN CLEANOUT TO GRADE
SCALE: NONE

NOTES:

1. PLACE GEOTEXTILE MEETING WSDOT STD SPEC. 9-33.2(1), TABLE 4, DITCH LINING, WOVEN ALONG BOTTOM AND SIDE SLOPES TO CROWN OF PIPE, AND INSTALL ROCK TO 1' ABOVE PIPE CROWN ALONG BOTH SIDES OF CHANNEL.
2. QUARRY SPALLS SHALL BE IN ACCORDANCE WITH SECTION 9-13.1(5) OF THE WSDOT STANDARD SPECIFICATIONS

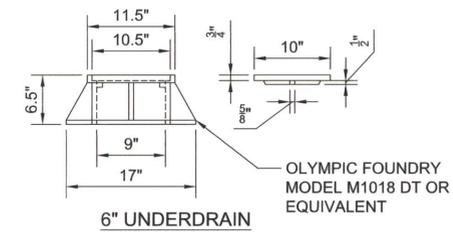


WALL FACE UNDERDRAIN OUTLET SECTION



SECTION

2 UNDERDRAIN OUTLET DETAIL
SCALE: NONE



6" UNDERDRAIN

4 UNDERDRAIN CLEANOUT RING AND COVER
SCALE: NONE

TDB PROJECT MANAGER	2/4/26
DATE	
KLB DRAWN BY	2/4/26
DATE	
SCB CHECKED BY	2/4/26
DATE	

HORIZ. SCALE: NONE
VERT. SCALE: NONE
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE: 07_S33.dwg



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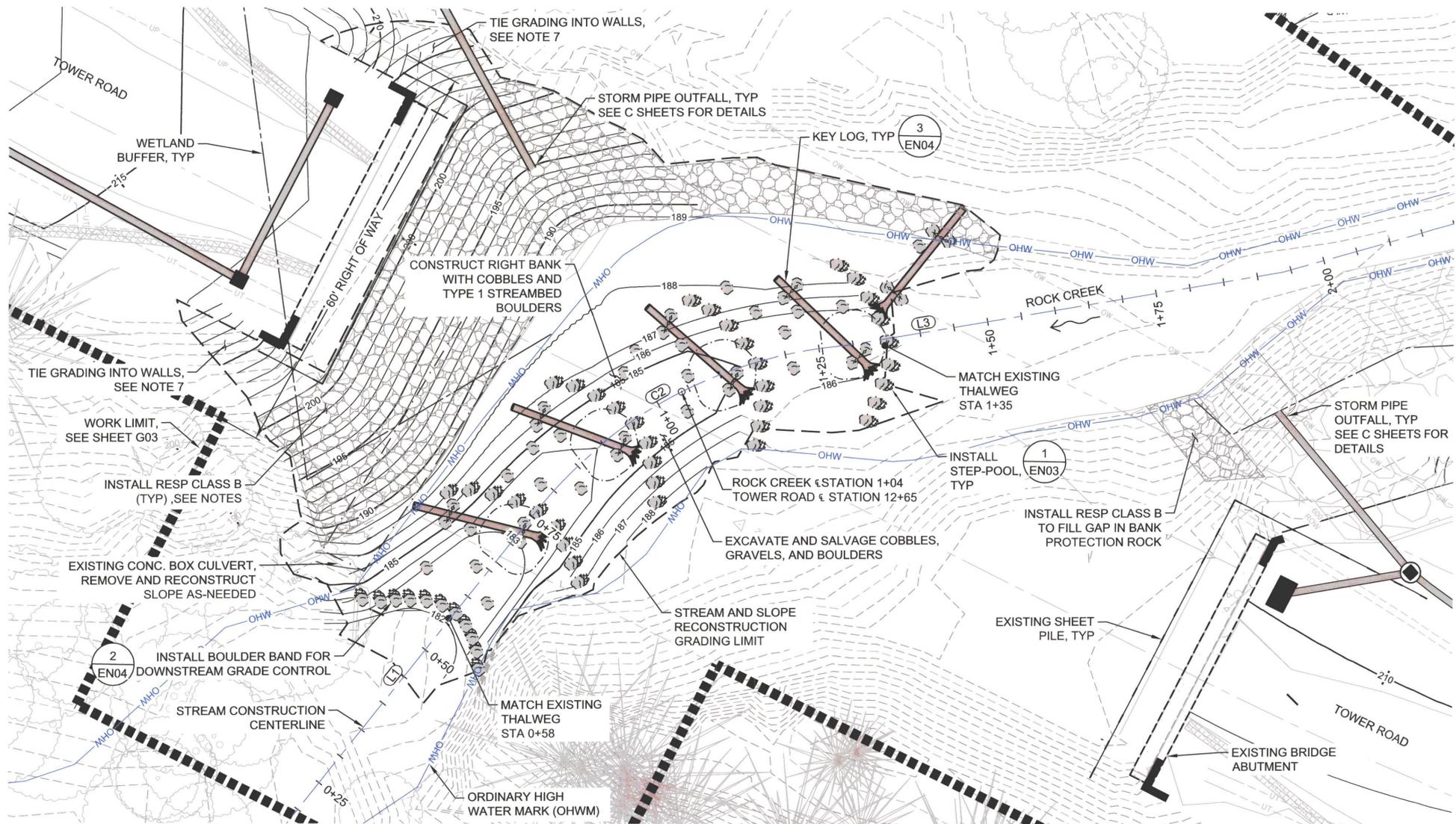
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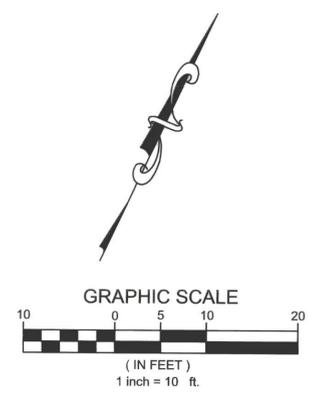
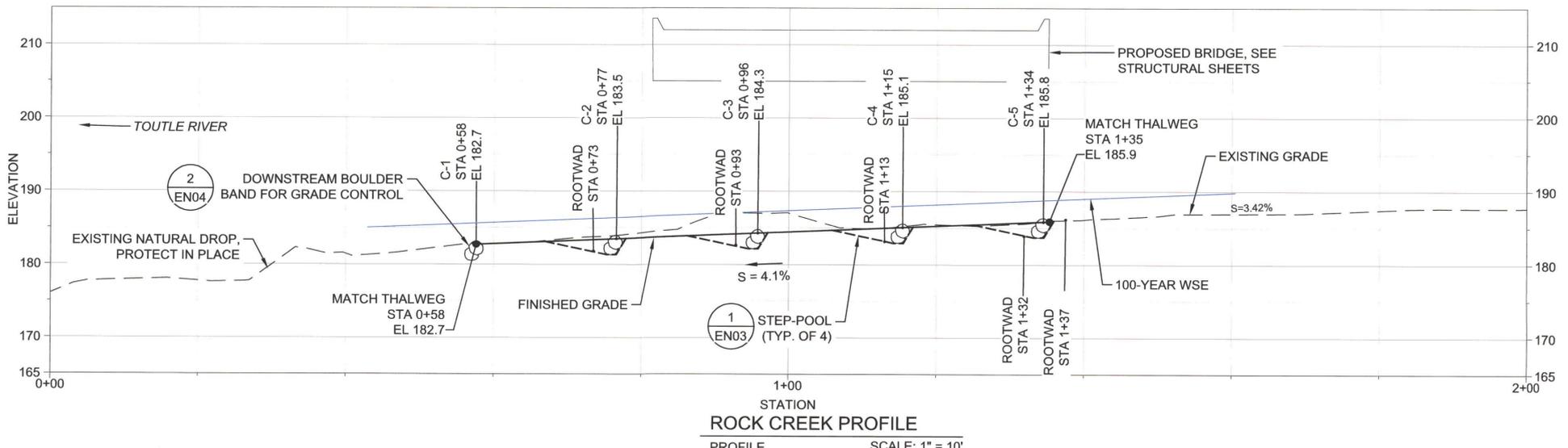
**TOWER ROAD BRIDGE
AT ROCK CREEK**
WALL DETAILS - SHEET 2

BID SET
SHEET
S33
65 OF 70



STREAM ALIGNMENT STAKING								
SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
L1	0+00	1,055,313.6	378,128.7	N9° 47' 22"W	74.6	---	---	---
C2	0+75	1,055,300.9	378,202.2	---	---	54.4	65.0	47° 56' 50"
L3	1+29	1,055,312.9	378,253.6	N32° 18' 05"E	64.7	---	---	---

- NOTES**
- REFER TO SHEET EN02 FOR DETAILED SECTIONS AND CONSTRUCTION REQUIREMENTS FOR EXCAVATION, BACKFILL, AND PLACEMENT OF EROSION AND SCOUR PROTECTION ROCK.
 - NORTHING AND EASTING COORDINATES HAVE BEEN PROVIDED FOR GRADING LIMITS AND CONSTRUCTION CENTERLINES. THE ENGINEER SHALL APPROVE THE LIMITS IN THE FIELD AND MAY DIRECT ADJUSTMENT DURING CONSTRUCTION.
 - THE ENGINEER WILL EVALUATE BANK EXCAVATION MATERIALS FOR USE AS COMMON BORROW IN THE FIELD.
 - SUITABLE COBBLES AND GRAVELS GENERATED DURING STREAM CHANNEL EXCAVATION, INCLUDING THOSE DURING THE REMOVAL OF THE EXISTING CULVERT, MAY BE SALVAGED AND STOCKPILED FOR APPROVAL AS ENGINEERED STREAMBED MATERIAL. REFER TO THE CONTRACT SPECIFICATIONS FOR REQUIREMENTS AND VOLUME ESTIMATE.
 - RESP CLASS B CURRENTLY EXISTS ON-SITE. THE MATERIAL MUST BE REMOVED TO PERFORM THE WORK. STOCKPILE MATERIAL AND RE-INSTALL PER THE CONSTRUCTION PLANS. ADDITIONAL MATERIAL IS REQUIRED.
 - THE ENGINEER MAY DIRECT THE STREAM GRADING AND MATERIAL PLACEMENT.
 - THE CONTRACTOR SHALL GRADE SLOPES AND MAINTAIN A MINIMUM 4 FEET OF CLEARANCE WITH THE INSTALLED LOW CHORD OF BRIDGE AT ALL LOCATIONS.
 - ROOTWAD STATIONING AND LOCATIONS SHOWN ON THIS SHEET MAY BE FIELD-ADJUSTED BY THE CONTRACT REPRESENTATIVE AS LONG AS INSTALLATION CONTINUES TO MEET THE REQUIREMENTS ON SHEET EN04.
 - FOLLOWING WORK SHOWN ON EN01 - EN04, THE CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND PLACING ADDITIONAL LOOSE WOOD AS SHOWN ON EN05.



HUNTER WHITE, PE
PROJECT MANAGER
2/4/2026
DATE

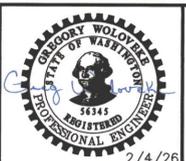
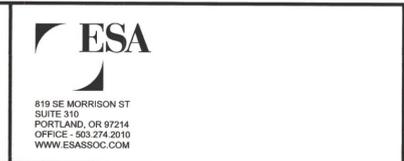
GREG WOLOVEKE, PE
DRAWN BY
2/4/2026
DATE

GREG WOLOVEKE, PE
CHECKED BY
2/4/2026
DATE

HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'
PROJECT ID: 1801
ROAD NO.: 51200
COMPUTER FILE:



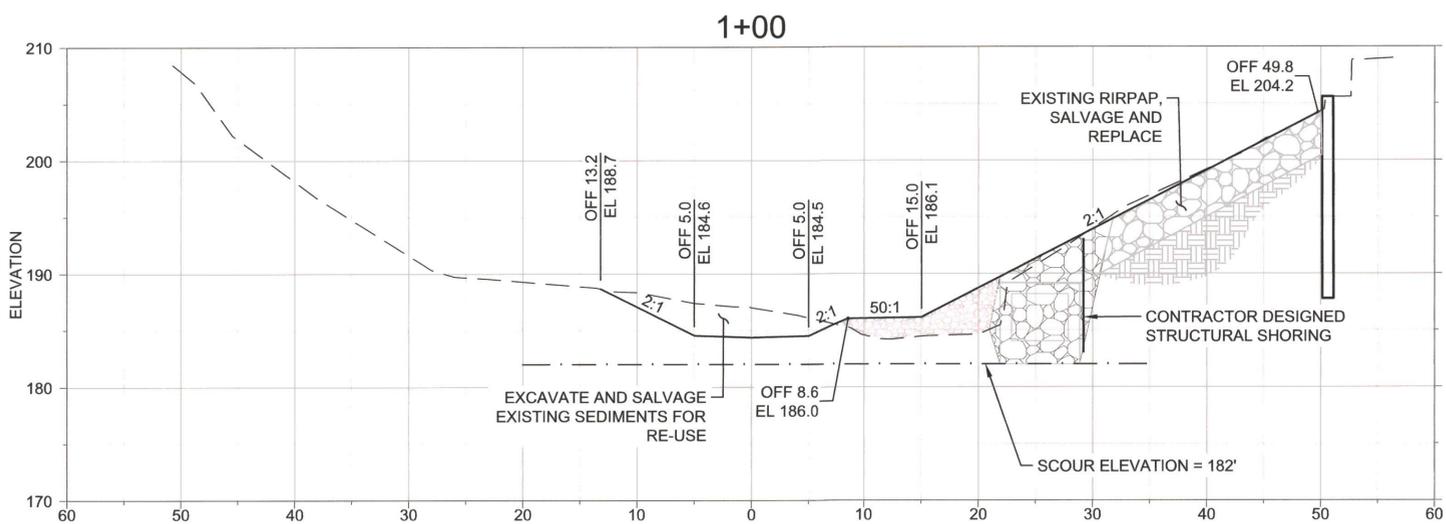
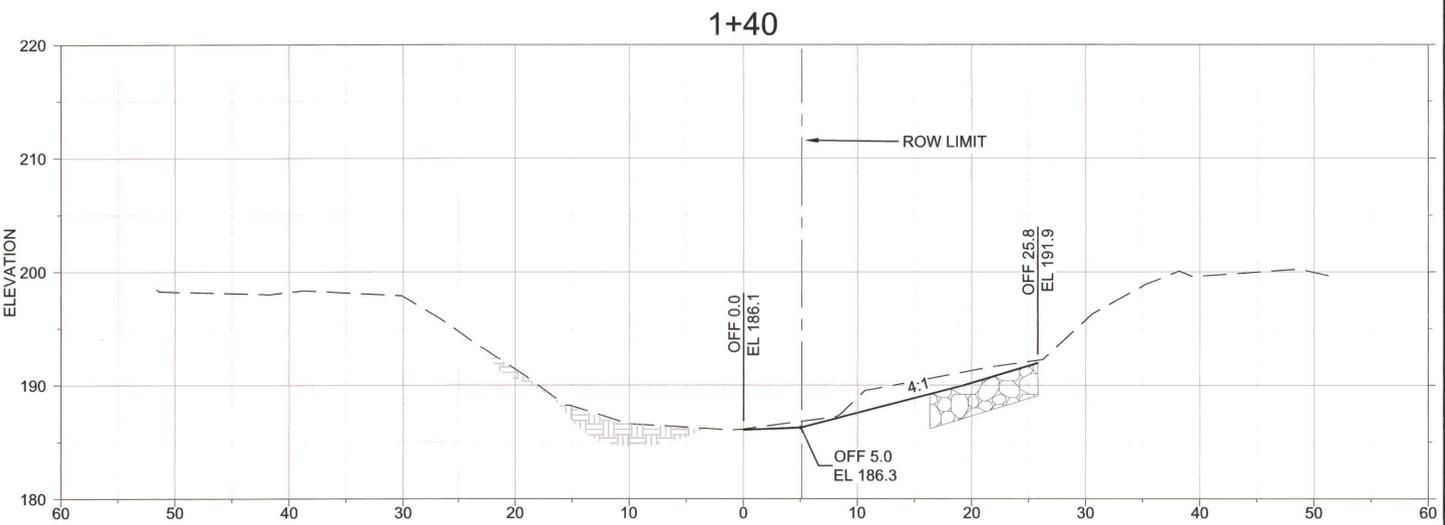
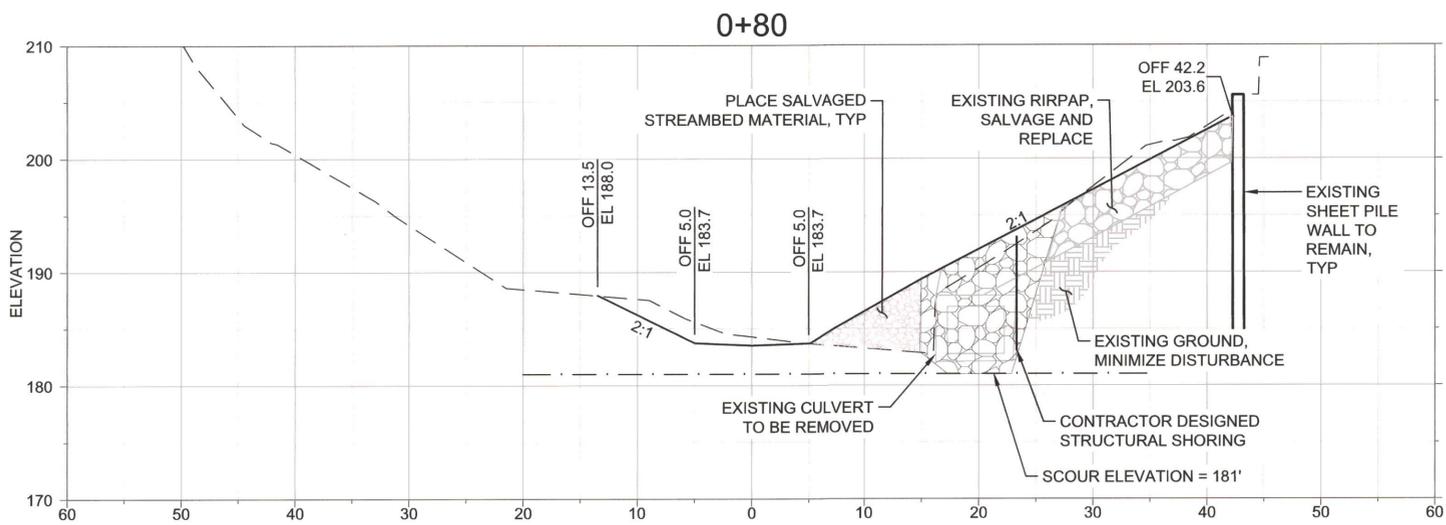
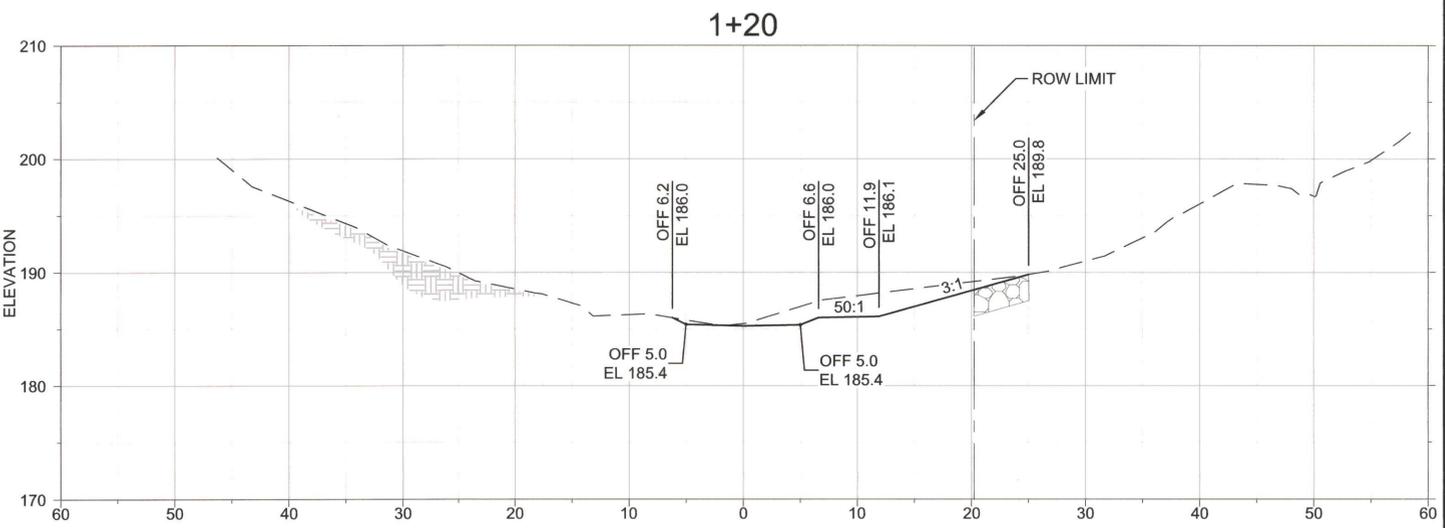
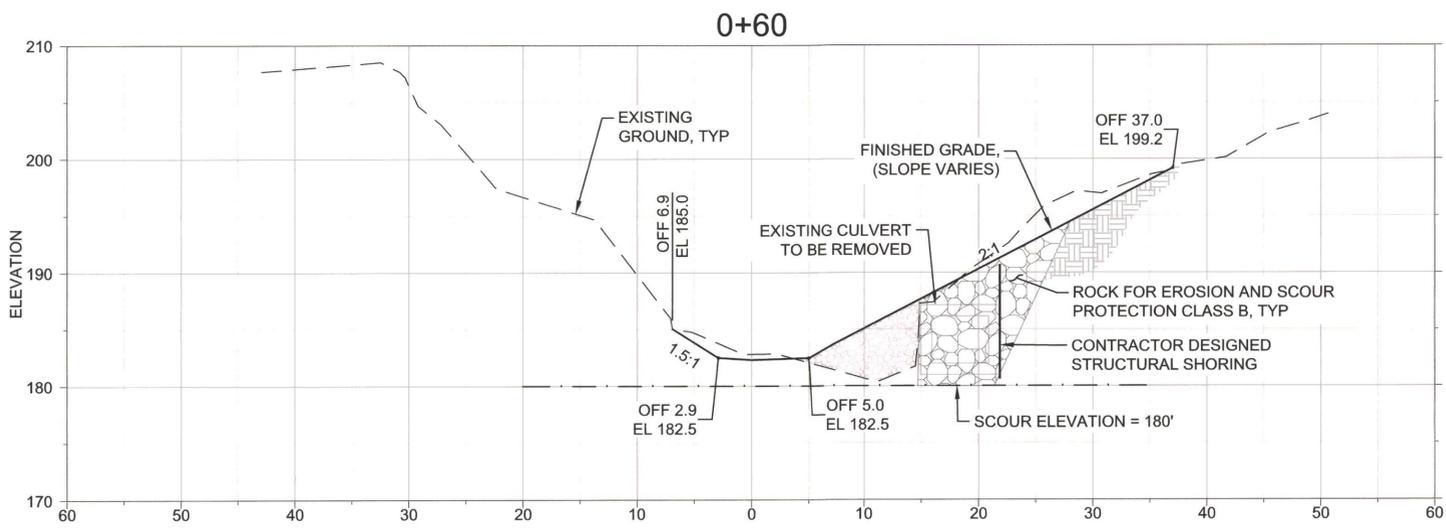
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CRP NO 788

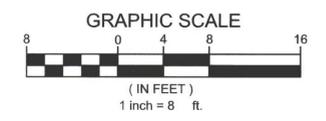
TOWER ROAD BRIDGE AT ROCK CREEK
STREAM PLAN AND PROFILE

BID SET
SHEET EN01
66 OF 70



NOTES

1. SECTIONS ARE ORIENTED LOOKING DOWNSTREAM, LEFT TO RIGHT.
2. ROCK FOR EROSION AND SCOUR PROTECTION SHALL BE PLACED DOWN TO SCOUR ELEVATION INDICATED ON THIS SHEET. SCOUR ELEVATION VARIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING STRUCTURAL SHORING AND MINIMIZING DISTURBANCE TO BANKS. THE CONTRACTOR SHALL BEAR THE COSTS TO REPAIR BANKS BEYOND WHAT IS SHOWN IN THESE SECTIONS USING RESP CLASS B.
4. THE EXTENTS OF EXISTING RIPRAP ARE UNKNOWN AND WILL VARY.
5. SECTIONS DEPICT FINISHED GRADE.



HUNTER WHITE, PE	2/4/2026
PROJECT MANAGER	DATE
GREG WOLOVEKE, PE	2/4/2026
DRAWN BY	DATE
GREG WOLOVEKE, PE	2/4/2026
CHECKED BY	DATE

HORIZ. SCALE: AS SHOWN
 VERT. SCALE: AS SHOWN
 PROJECT ID: 1801
 ROAD NO.: 51200
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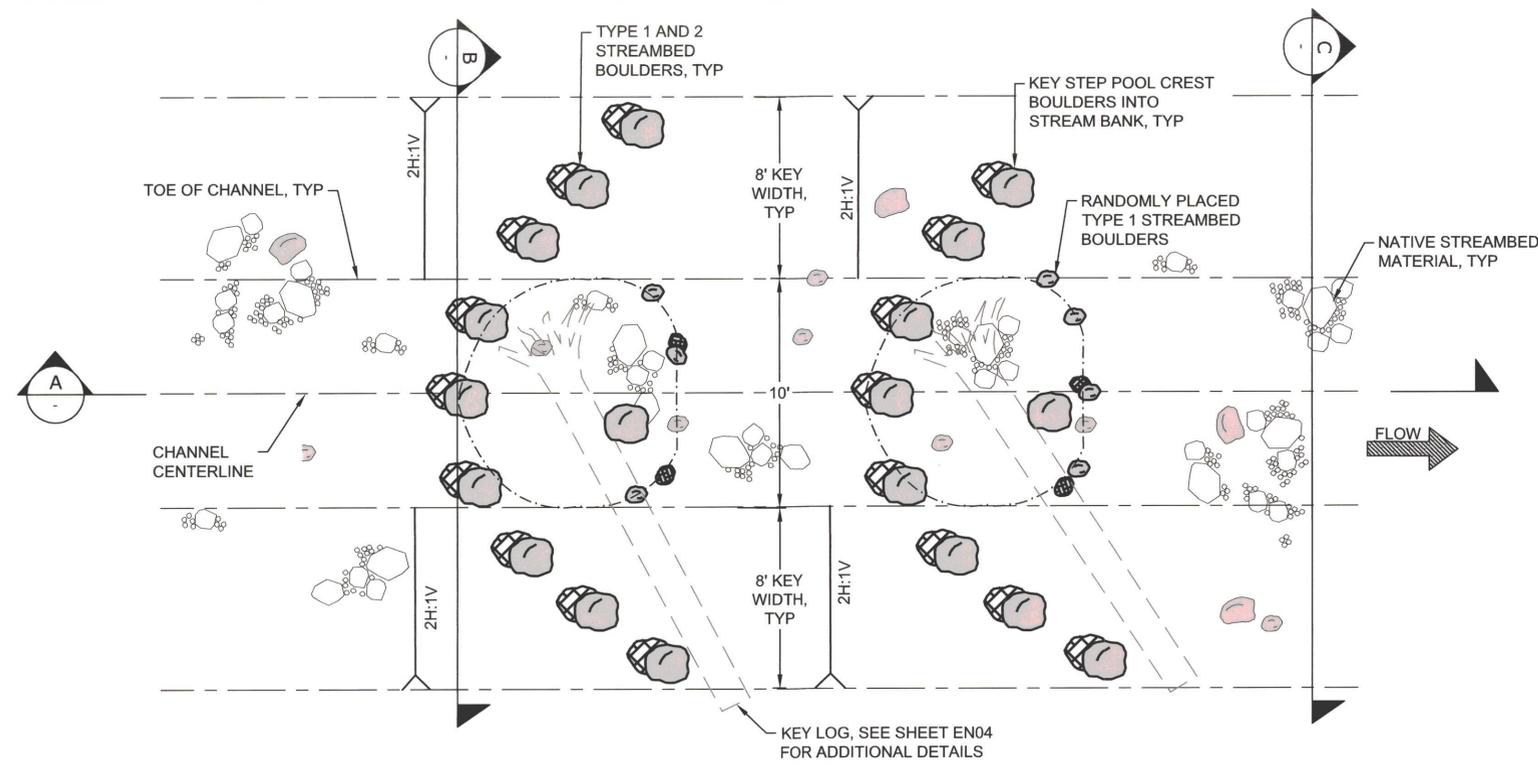


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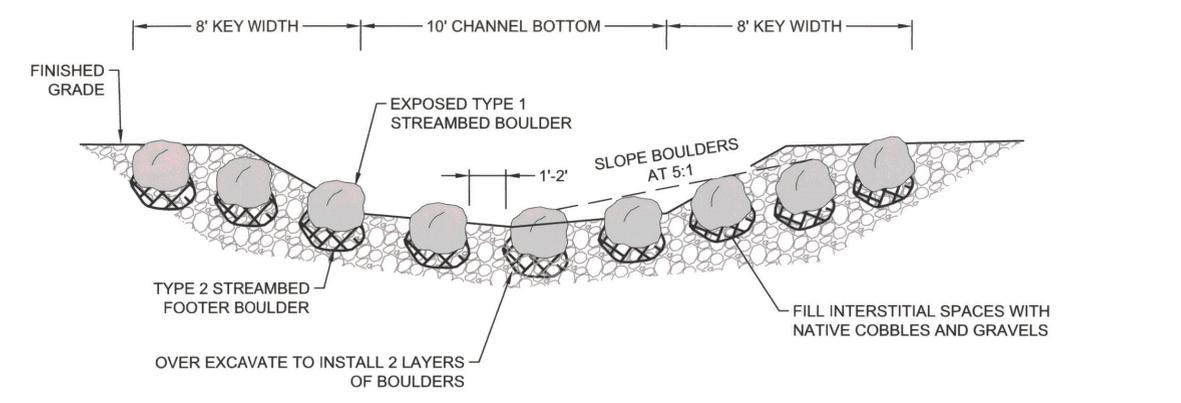
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**TOWER ROAD BRIDGE
 AT ROCK CREEK
 STREAM GRADING SECTIONS**



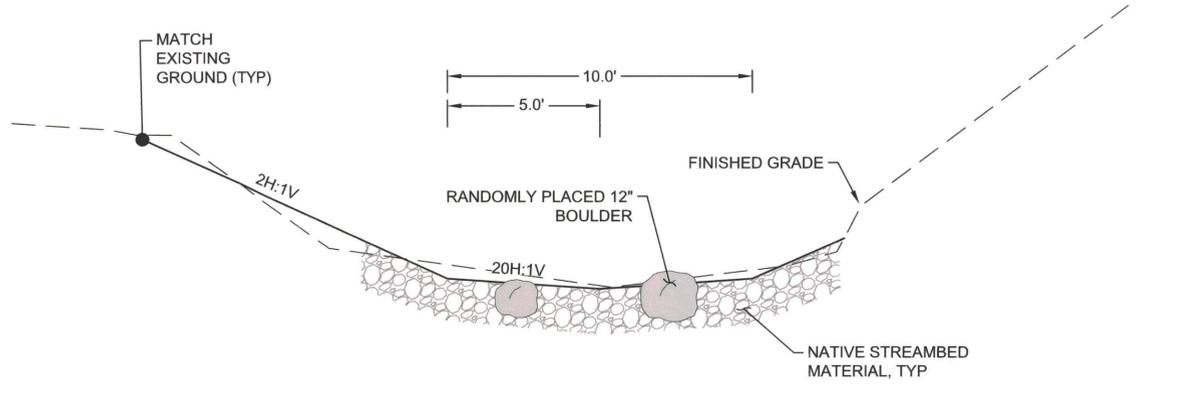
1 STEP POOL PLAN
EN01 DETAIL SCALE: 1" = 4'

GRAPHIC SCALE
(IN FEET)
1 inch = 4 ft.



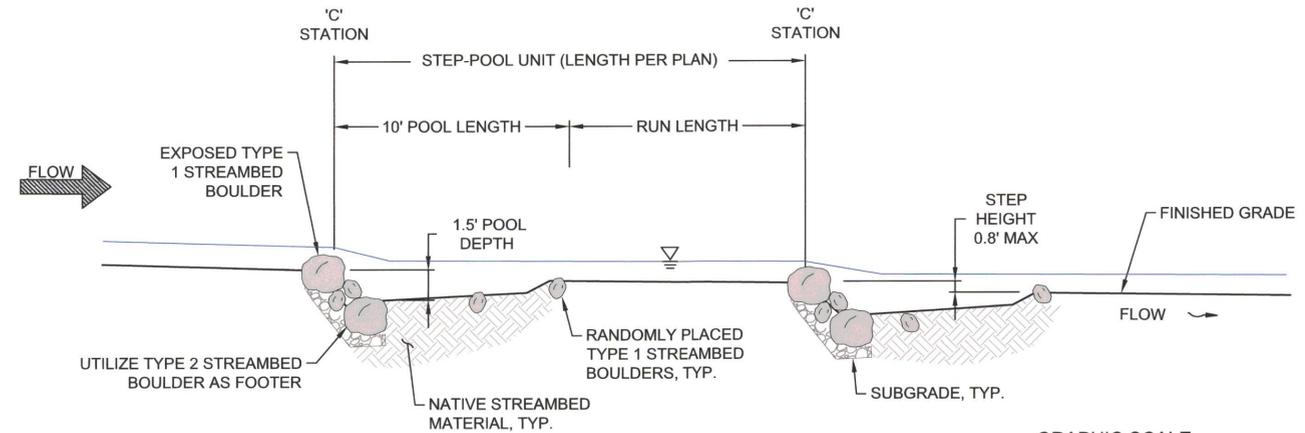
B STEP-POOL CREST
ELEVATION SCALE: 1" = 3'

GRAPHIC SCALE
(IN FEET)
1 inch = 3 ft.



C TYPICAL CHANNEL RUN
SECTION SCALE: 1" = 3'

GRAPHIC SCALE
(IN FEET)
1 inch = 3 ft.



A TYPICAL CHANNEL
EN01 PROFILE SCALE: 1" = 4'

GRAPHIC SCALE
(IN FEET)
1 inch = 4 ft.

ENGINEERED STREAMBED MATERIAL (ESM) - MATERIAL SCHEDULE		
FILL MATERIAL	DIAMETER RANGE (IN)	PERCENT BY WEIGHT
TYPE 1 STREAMBED BOULDERS	12 - 18	5%
8-INCH COBBLE	2 - 8	60%
STREAMBED SEDIMENT	NO. 200 - 2.5	35%

STREAMBED CONSTRUCTION NOTES

- ALL IMPORTED STREAMBED MATERIALS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER AT THE OFFSITE SOURCE, BEFORE DELIVERY TO THE PROJECT SITE. THE ENGINEER SHALL VISUALLY INSPECT THE MATERIAL AND MAY REQUIRE THE CONTRACTOR TO DUMP INDIVIDUAL LOADS ONTO A FLAT SURFACE FOR MEASUREMENT AND APPROVAL.
- A MAJORITY OF STREAMBED MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE SALVAGED FROM ON-SITE EXCAVATION. ALL SALVAGED STREAMBED MATERIAL WILL BE EVALUATED FOR RE-USE BY THE ENGINEER PRIOR TO INSTALLATION. IMPORTED COBBLES AND SEDIMENT SHALL BE MIXED WITH SALVAGED STREAMBED MATERIAL INTO A SINGLE STOCKPILE PRIOR TO INSTALLATION USING THE RATIOS PROVIDED ON THIS SHEET AND THE CONTRACT SPECIFICATIONS. THE ENGINEER MAY REQUIRE THE RE-MIX OF THE MATERIAL. MIXING SHALL NOT OCCUR UNTIL AFTER THE ENGINEER APPROVES THE MATERIALS.
- STREAMBED BOULDERS SHALL BE INDIVIDUALLY PLACED AND BACKFILLED WITH ADDITIONAL STREAMBED SEDIMENT. THE ENGINEER MAY DIRECT THE CONTRACTOR TO MAKE ADJUSTMENTS TO BOULDER PLACEMENT.
- STREAMBED BOULDERS MAY PROTRUDE ABOVE THE FINISHED GRADE UP TO 50% THEIR DIAMETER.
- STREAMBED MATERIALS SHALL BE INSTALLED IN 12-INCH LIFTS TO THE DIMENSIONS AND THICKNESS SHOWN IN THESE PLANS. THICKNESS IS MEASURED PERPENDICULAR TO FINISHED GRADE.
- AFTER EACH LIFT IS PLACED, THE CONTRACTOR SHALL USE LOW-PRESSURE WATER TO WASH 'STREAMBED SAND' INTO THE VOID SPACES TO CREATE A SEALED BED. THE LIFT SHALL BE CONSIDERED SEALED ONCE THE PROJECT REPRESENTATIVE VISUALLY APPROVES WATER REMAINS ON THE SURFACE.
- STREAMBED SAND SHALL BE STOCKPILED SEPARATELY.
- DO NOT ALLOW STREAMBED SEDIMENT TO ACCUMULATE SUCH THAT A SUBSEQUENT LIFTS REST ON THE FINE SEDIMENT ACCUMULATION.
- AFTER FINAL LIFT IS PLACED, STREAM FLOW WILL BE GRADUALLY REINTRODUCED AND OBSERVED SO THAT WATER FLOWS OVER THE TOP OF THE CONSTRUCTED STREAMBED (NOT SUBSURFACE) UPON COMPLETION. IF WATER FLOWS SUBSURFACE, THE ENGINEER MAY REQUIRE ADDITIONAL HAND WORKING OR WASHING OF STREAMBED SAND INTO VOID SPACES AT NO ADDITIONAL COST TO THE CONTRACTING AGENCY.

HUNTER WHITE, PE
PROJECT MANAGER
DATE: 2/4/2026

GREG WOLOVEKE, PE
DRAWN BY
DATE: 2/4/2026

GREG WOLOVEKE, PE
CHECKED BY
DATE: 2/4/2026

HORIZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN

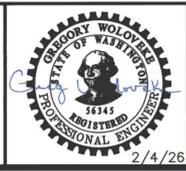
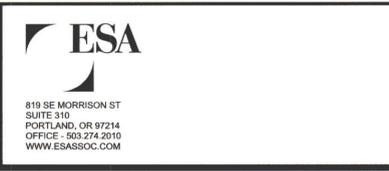
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ROAD NO. : 51200

COMPUTER FILE:



DEPARTMENT OF PUBLIC WORKS

1600 13TH AVENUE SOUTH
KELSO, WASHINGTON 98626



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CRP NO 788

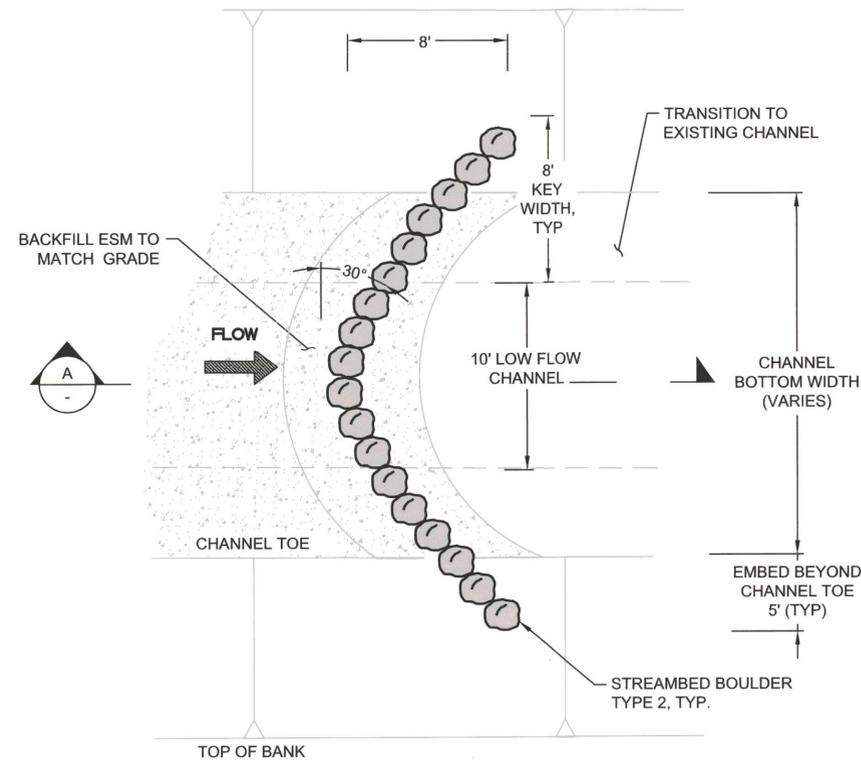
**TOWER ROAD BRIDGE
AT ROCK CREEK**

STREAMBED DETAILS- SHEET 1

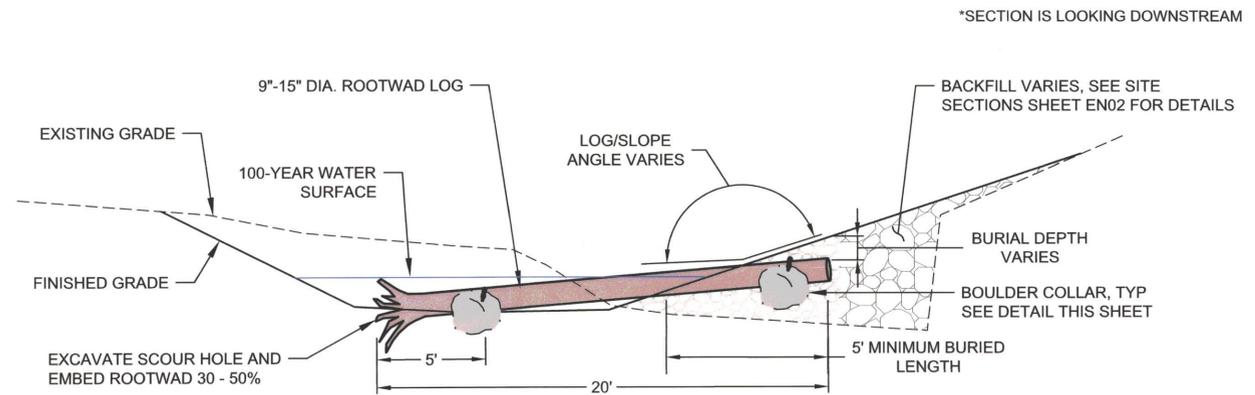
BID SET

SHEET EN03

68 OF 70



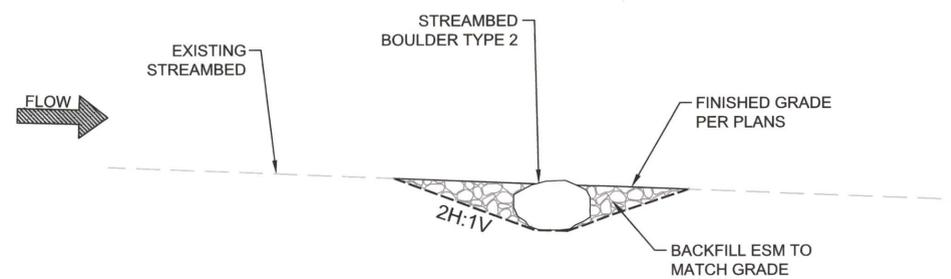
2 BOULDER BAND
EN01 DETAIL SCALE: NTS



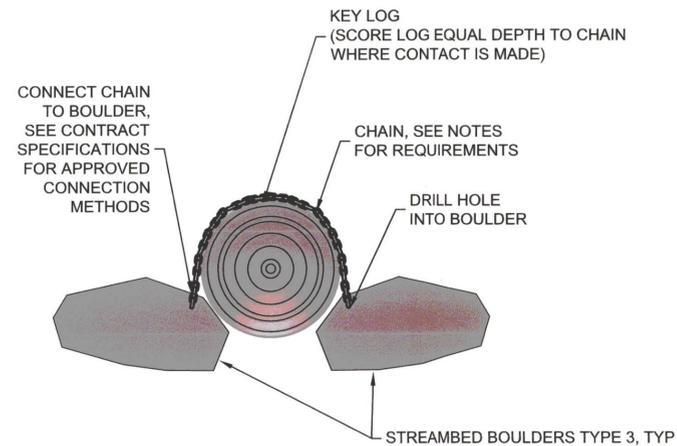
ROOTWAD INSTALLATION NOTES

- LOGS INSTALLED MUST HAVE A ROOTWAD THAT MEASURES A MINIMUM OF 5-FEET IN DIAMETER TO BE APPROVED FOR PLACEMENT. THE ENGINEER RESERVES THE RIGHT TO REJECT KEY LOGS THAT DO NOT MEET THIS REQUIREMENT OR WHERE THE ROOT MASS VISUALLY APPEARS TO BE BROKEN OR DAMAGED.
- THE CONTRACTOR SHALL EXCAVATE A SCOUR HOLE AND PARTIALLY EMBED EACH ROOTWAD WHERE PLACED IN CONTACT WITH THE STREAMBED. THE OBJECTIVE IS INSTALL LOGS SUCH THAT THE STEM IS IN CONTACT WITH THE STREAMBED.
- THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING LOGS. THE CONTRACT REPRESENTATIVE MAY APPROVE LOGS REMOVED FROM ON-SITE THAT MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS.

3 KEY LOG
EN01 DETAIL SCALE: NTS



2A BOULDER BAND SECTION
EN01 DETAIL SCALE: NTS



4 BOULDER COLLAR
EN01 DETAIL SCALE: NTS

CHAIN CONNECTION NOTES:

- CHAIN SHALL BE 3/8 INCH DIAMETER GRADE 70 STEEL WITH MINIMUM WORKING LIMIT OF 4,500 LBS.
- ALL HARDWARE USED FOR LASHING SHALL BE STAINLESS STEEL OR NATURAL UNTREATED STEEL AND CONNECTIONS SHALL BE OF THE QUANTITY AND TYPE SPECIFIED BY THE MANUFACTURER WITH AN EQUAL OR GREATER STRENGTH THAN THE CHAIN BREAKING STRENGTH.
- SECURE CHAIN TO BOULDERS USING APPROVED METHOD AND PROOF LOAD ASSEMBLED COLLAR BY LIFTING ROM CHAIN.
- INSTALL CHAIN TO EACH LOG AS SHOWN IN DETAIL AND AT THE LOCATION SHOWN ON PLAN SHEETS.
- DETERMINE CHAIN LENGTH REQUIRED SUCH THAT BOULDER COLLAR ASSEMBLY SHALL A) KEEP CHAIN UNDER TENSION WHEN PLACED OVER LOGS, AND B) AT LEAST ONE BOULDER SHALL BE TOUCHING EXISTING GROUND AND THE OTHER BOULDER WITHIN 6 INCHES OF EXISTING GROUND.
- THE CONTRACTOR MAY SUBMIT ALTERNATIVE CHAIN CONNECTION SYSTEM TO THE PROJECT REPRESENTATIVE FOR APPROVAL.

HUNTER WHITE, PE
PROJECT MANAGER
DATE: 2/4/2026

GREG WOLOVEKE, PE
DRAWN BY
DATE: 2/4/2026

GREG WOLOVEKE, PE
CHECKED BY
DATE: 2/4/2026

HORIZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN

PROJECT ID: 1801
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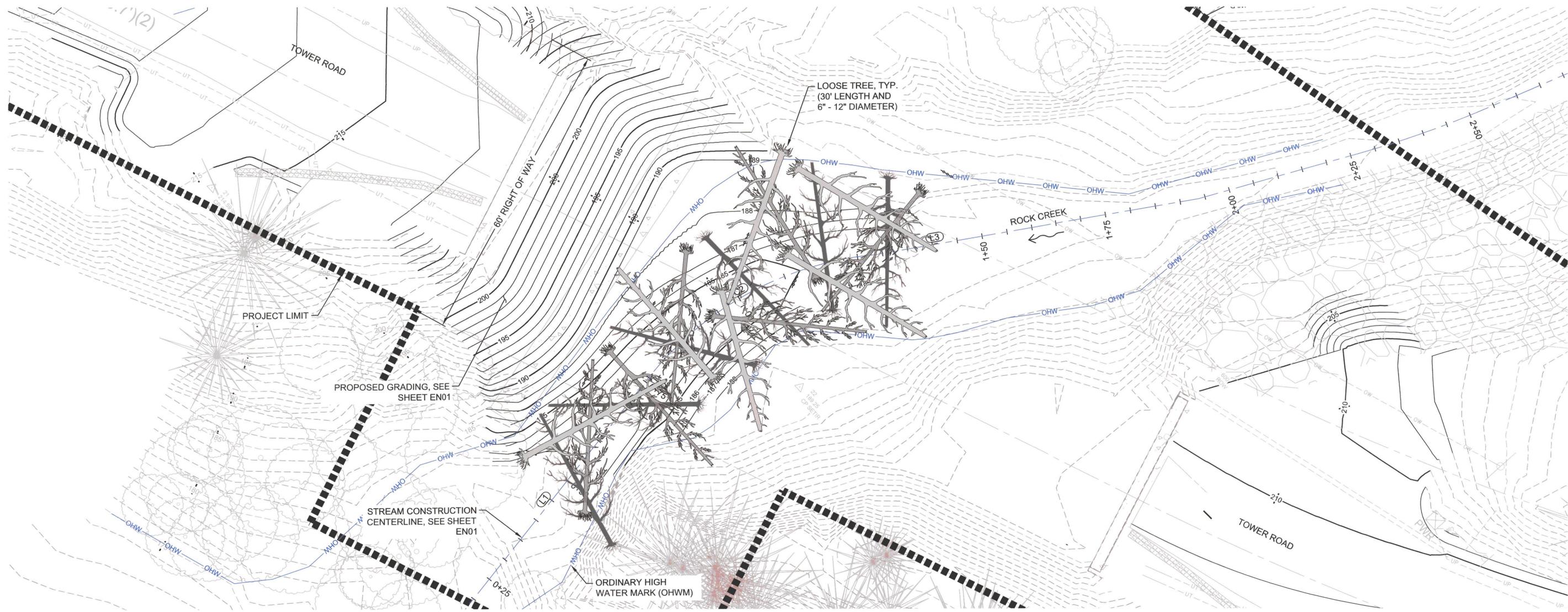
TOWER ROAD BRIDGE
AT ROCK CREEK

STREAMBED DETAILS- SHEET 2

BID SET

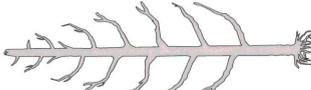
SHEET EN04

69 OF 70



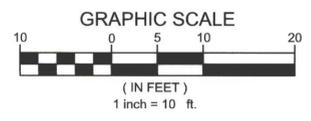
ROCK CREEK WOOD PLAN
PLAN SCALE: 1" = 10'

LEGEND

-  LOOSE TREE (LAYER 1)
-  LOOSE TREE (LAYER 2)
-  LOOSE TREE (LAYER 3)

NOTES

1. REFER TO SHEET EN01 FOR STREAM RESTORATION PLAN.
2. THE PROJECT REPRESENTATIVE MAY ADJUST THE WOOD PLACEMENT. LOCATIONS SHOWN ARE APPROXIMATE AND THE LAYERING PLAN PROVIDED IS FOR GENERAL GUIDANCE.
3. TREES SHALL MEET THE REQUIREMENTS IN THE SPECIAL PROVISIONS.



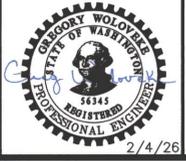
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HUNTER WHITE, PE PROJECT MANAGER	2/4/2026 DATE
GREG WOLOVEKE, PE DRAWN BY	2/4/2026 DATE
GREG WOLOVEKE, PE CHECKED BY	2/4/2026 DATE

HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN
PROJECT ID: 1801 ROAD NO. : 51200
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**TOWER ROAD BRIDGE
AT ROCK CREEK**

WOOD PLAN

BID SET

SHEET EN05

70 OF 70