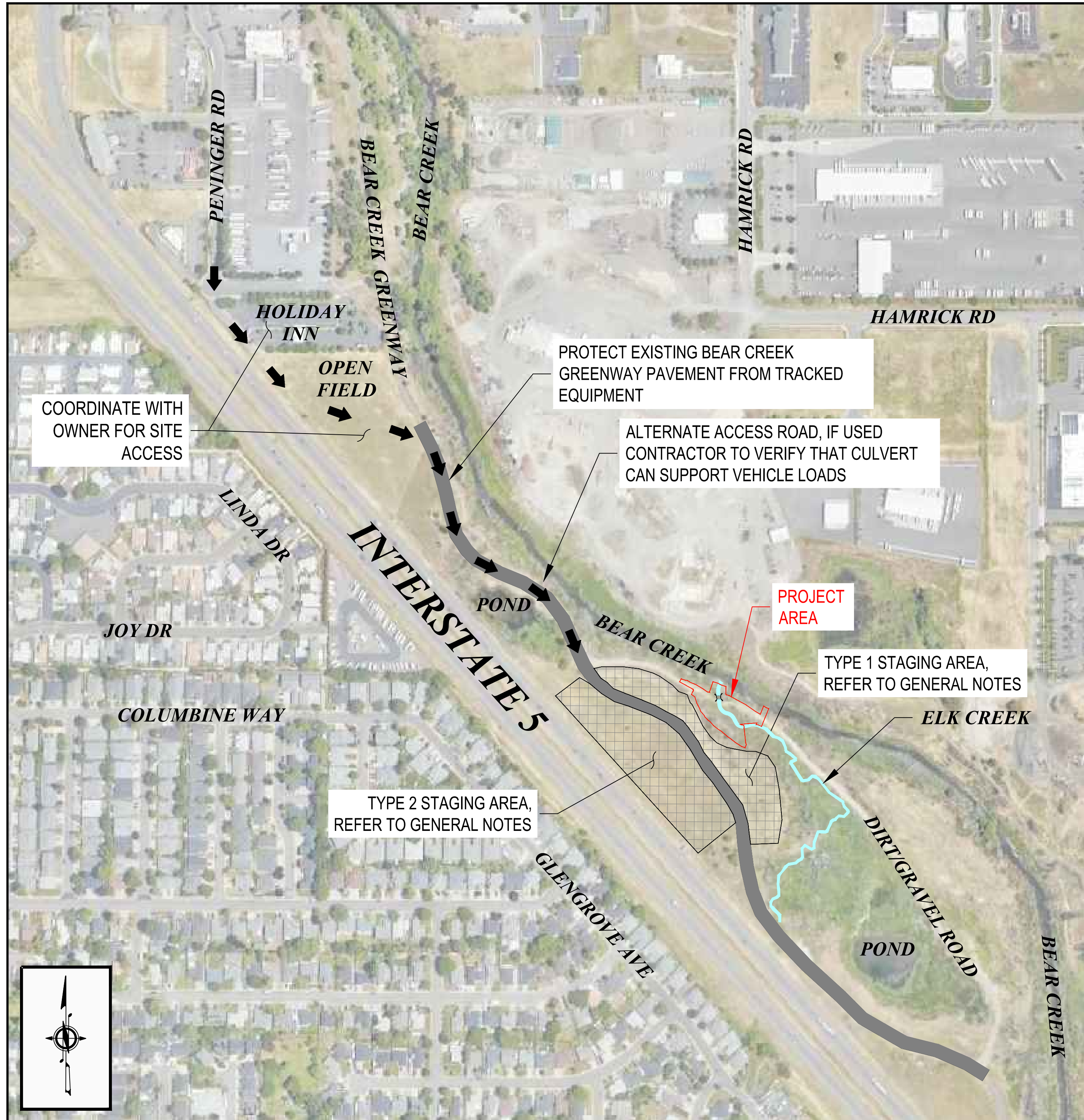




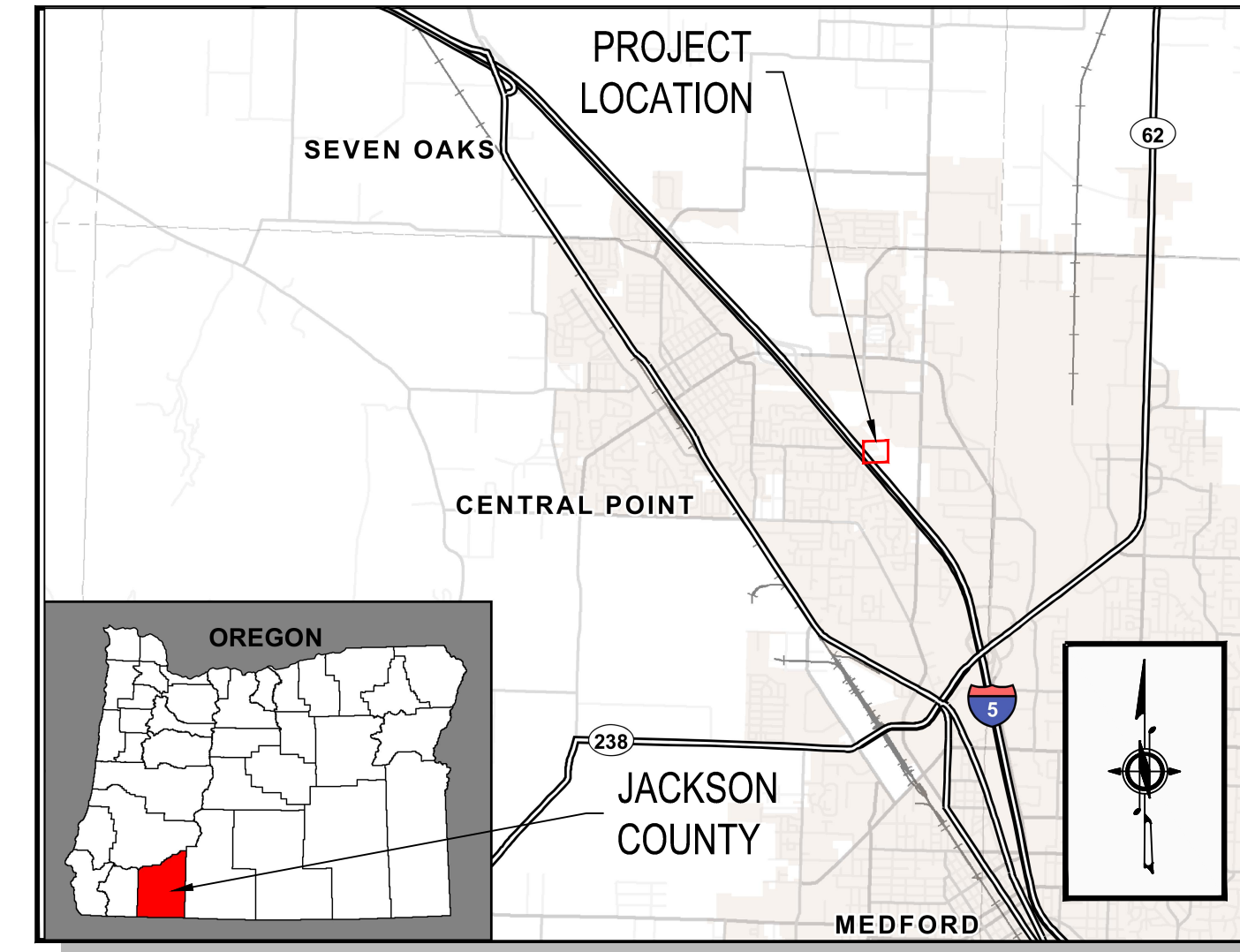
# CITY OF CENTRAL POINT ELK CREEK CULVERT REPLACEMENT

SUMMER 2024

## SITE ACCESS MAP



## PROJECT VICINITY MAP



### CALL 48 HOURS BEFORE YOU DIG ONE CALL 811

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT 503-232-1978

## LEGEND

EXISTING LEGEND		PROPOSED LEGEND	
—	MAJOR CONTOUR	—	MAJOR CONTOUR
- - -	MINOR CONTOUR	- - -	MINOR CONTOUR
— OHW	TOPO EDGE OF ORDINARY HIGH WATER	— OHW	OHW
— TOE	TOPO TOE OF SLOPE	— TOE	TOE OF SLOPE
— TOP	TOPO TOP OF SLOPE	— TOP	TOP OF SLOPE
○	TREE (DECIDUOUS)	▨	GRAVEL
○	TREE (TO BE REMOVED)	■	BARE EARTH AREA
□	NATURAL GAS VALVE	■	DISTURBED EARTH AREA
▨	DIRT ROADWAY	▨	WILLOW PLANTINGS
▨	GRAVEL ROADWAY	▨	HERBACEOUS MIX PLANTINGS
▨	VEGETATED AREAS	▨	SCOURING RUSH PLANTINGS
▨	WATER BODY	▨	NATIVE SEED MIX
▨	CLEAR AND GRUB AREA	▨	CONCRETE
▨	OBJECT TO BE REMOVED	▨	STAGING AREA
		▨	BYPASS PIPE
		▨	ACCESS ROUTE
		▨	STREAMBED BOULDER
		○	TREE (OREGON ASH)

## DRAWING INDEX

SHEET NO	SHEET TITLE	DWG NO
1	COVER	COV
2	GENERAL NOTES	G01
3	ALIGNMENT CONTROL	G02
4	EXISTING & DEMOLITION PLAN	C01
5	PROPOSED SITE AND GRADING PLAN	C02
6	PROPOSED STREAMBED SECTIONS	C03
7	FINAL RESTORATION PLAN	C04
8	DETAILS - SHEET 1 OF 5	D01
9	DETAILS - SHEET 2 OF 5	D02
10	DETAILS - SHEET 3 OF 5	D03
11	DETAILS - SHEET 4 OF 5	D04
12	DETAILS - SHEET 5 OF 5	D05

## REPORT SPILLS

ATTENTION: OREGON LAW REQUIRES THAT SPILLS BE REPORTED TO THE FOLLOWING ENTITIES:

OREGON EMERGENCY RESPONSE SYSTEM: 1-503-378-6377  
THE NATIONAL RESPONSE CENTER: 1-800-424-8802

## CONTACT PERSONNEL

CONTACT	AGENCY	PHONE
GREG GRAVES	CITY OF CENTRAL POINT	(541) 664-3321 x225
TYLER DUNCAN, P.E.	RH2 ENGINEERING	(541) 326-4448
NICK BAKKE	RVSS	(541) 727-6874
ERIC CHASE	SPECTRUM	(541) 210-0827
RYLAN WOOD	PACIFIC POWER	(541) 858-3204
ELI HABERMAN	AVISTA	(541) 690-0901
CAMERON DIBETTA	LUMEN	(541) 324-0549

## SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED. REFERENCE BUBBLES



PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.



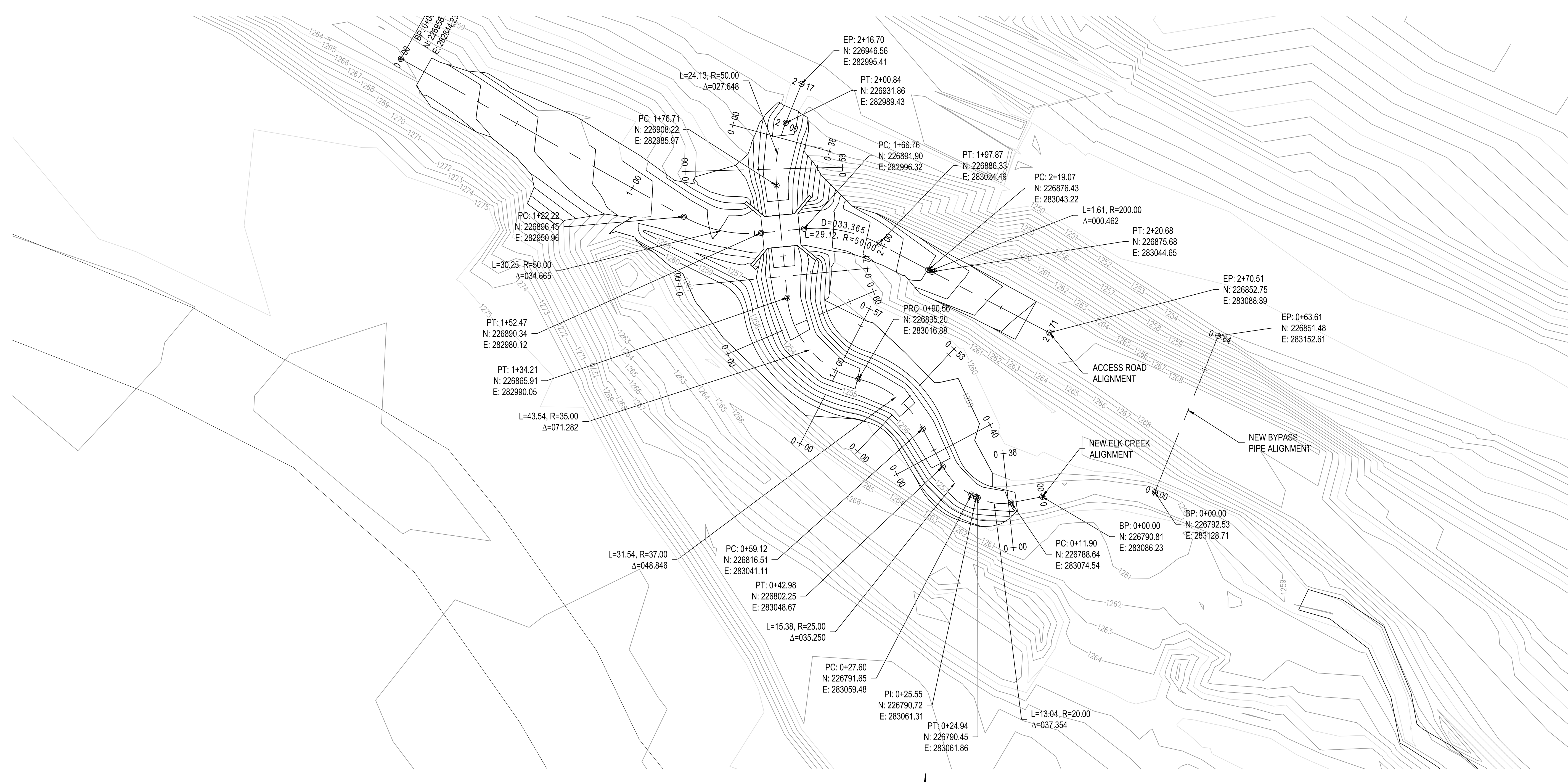
DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

WHERE: ID = SECTION/DETAIL REFERENCE NUMBER  
## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SECTION/DETAIL REFERENCE NUMBER CONVENTIONS:  
SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ZZ).







### ALIGNMENT CONTROL PLAN

1" = 20'

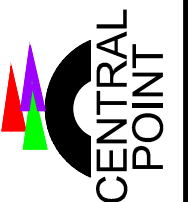


### SURVEY NOTES

- TOPOGRAPHIC SURVEY WAS PERFORMED BY NEATHAMER SURVEYING INC, WITH FIELD WORK COMPLETED ON FEBRUARY 1, 2022.
- THE BASIS OF BEARING FOR THIS SURVEY GEODETIC NORTH REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83 2011) USING THE OREGON COORDINATE REFERENCE SYSTEM GRANTS PASS - ASHLAND ZONE.
- THE BASIS OF VERTICAL CONTROL FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) (CITY OF CENTRAL POINT) VIA RTK GPS OBSERVATIONS.
- THE PROPERTY LINES SHOWN HEREON ARE APPROXIMATE AND NOT THE RESULT OF A BOUNDARY SURVEY.

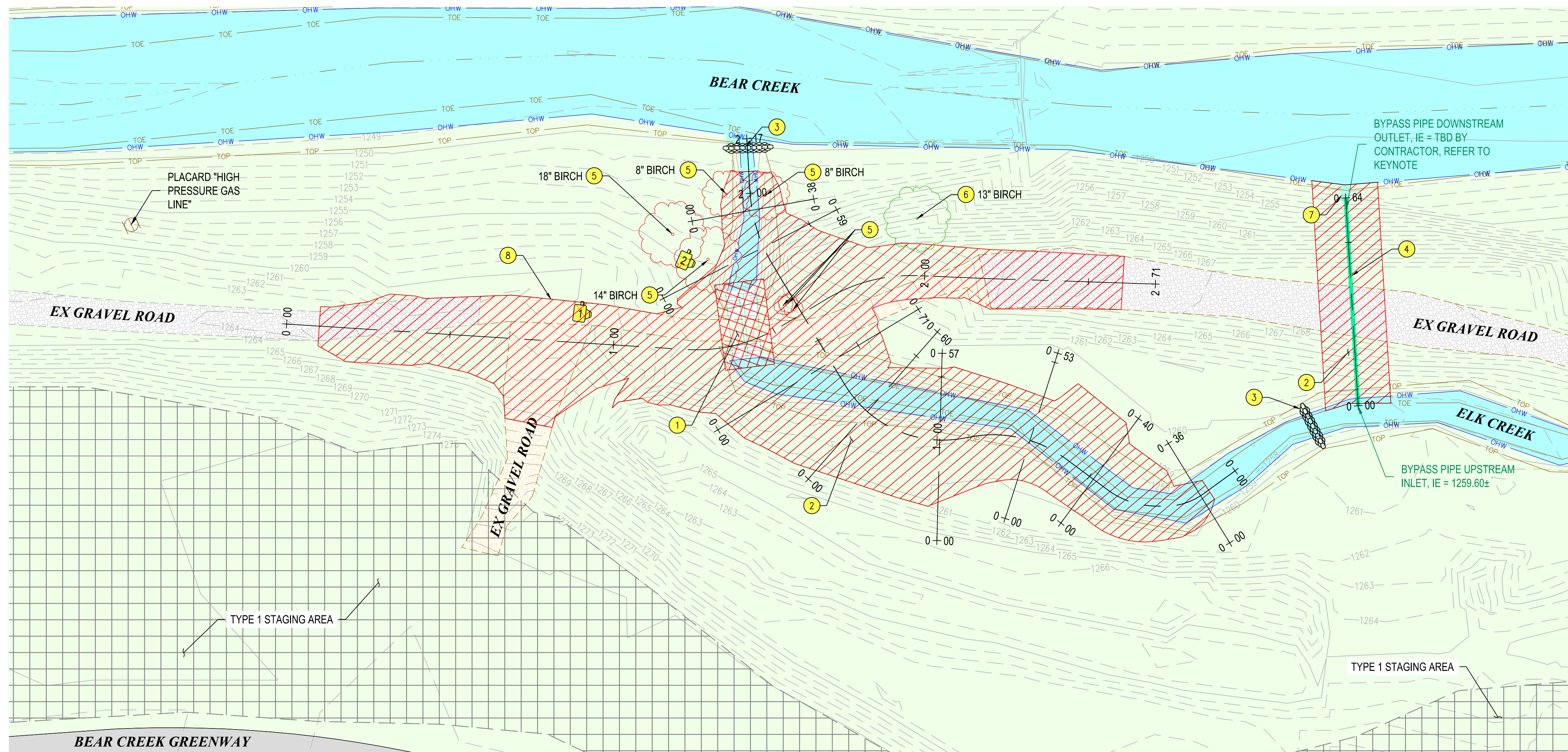
## CITY OF CENTRAL POINT ELK CREEK CULVERT REPLACEMENT

## ALIGNMENT CONTROL

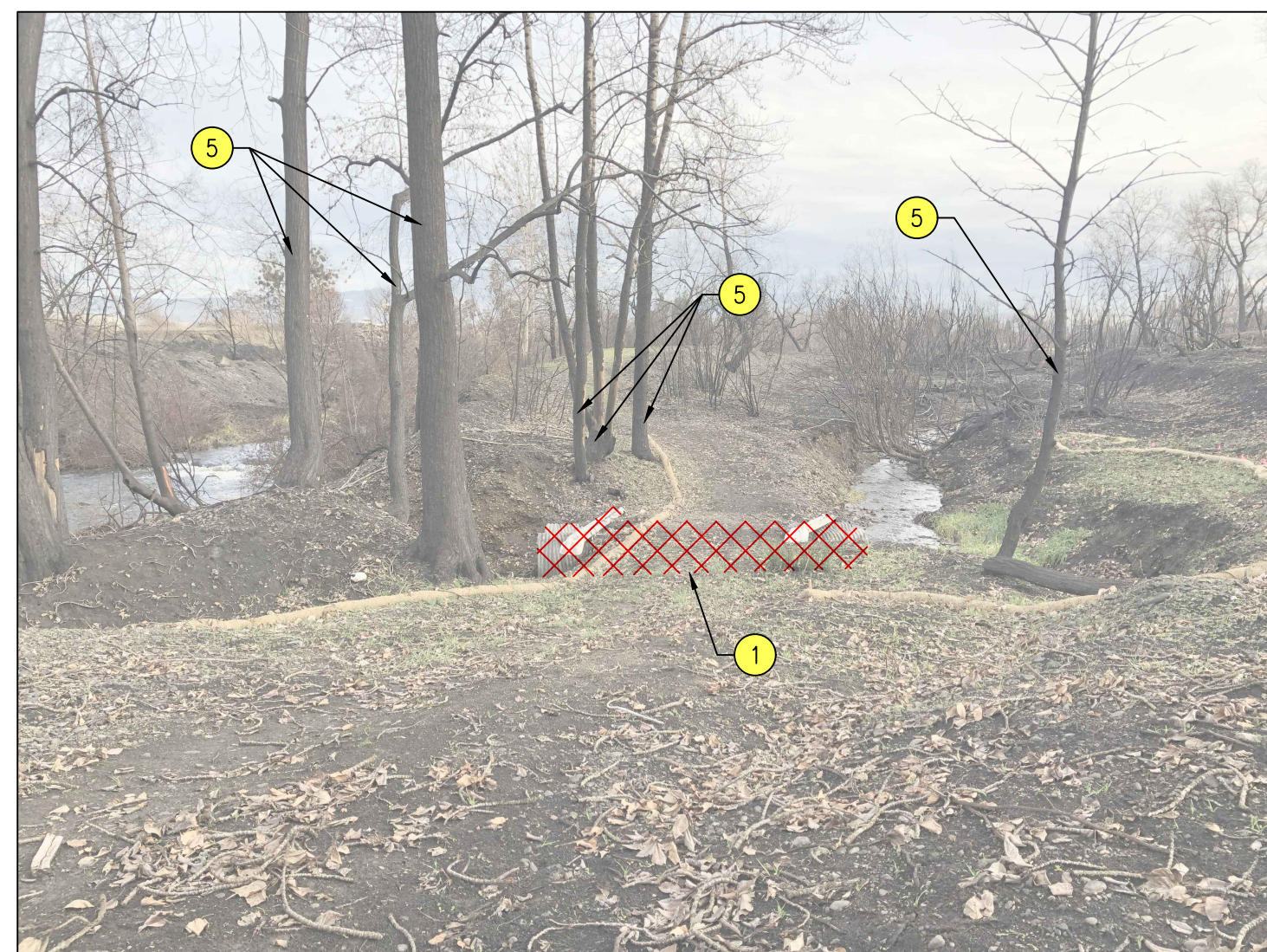


NO.	DATE	DESCRIPTION	BY	REVIEW

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DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



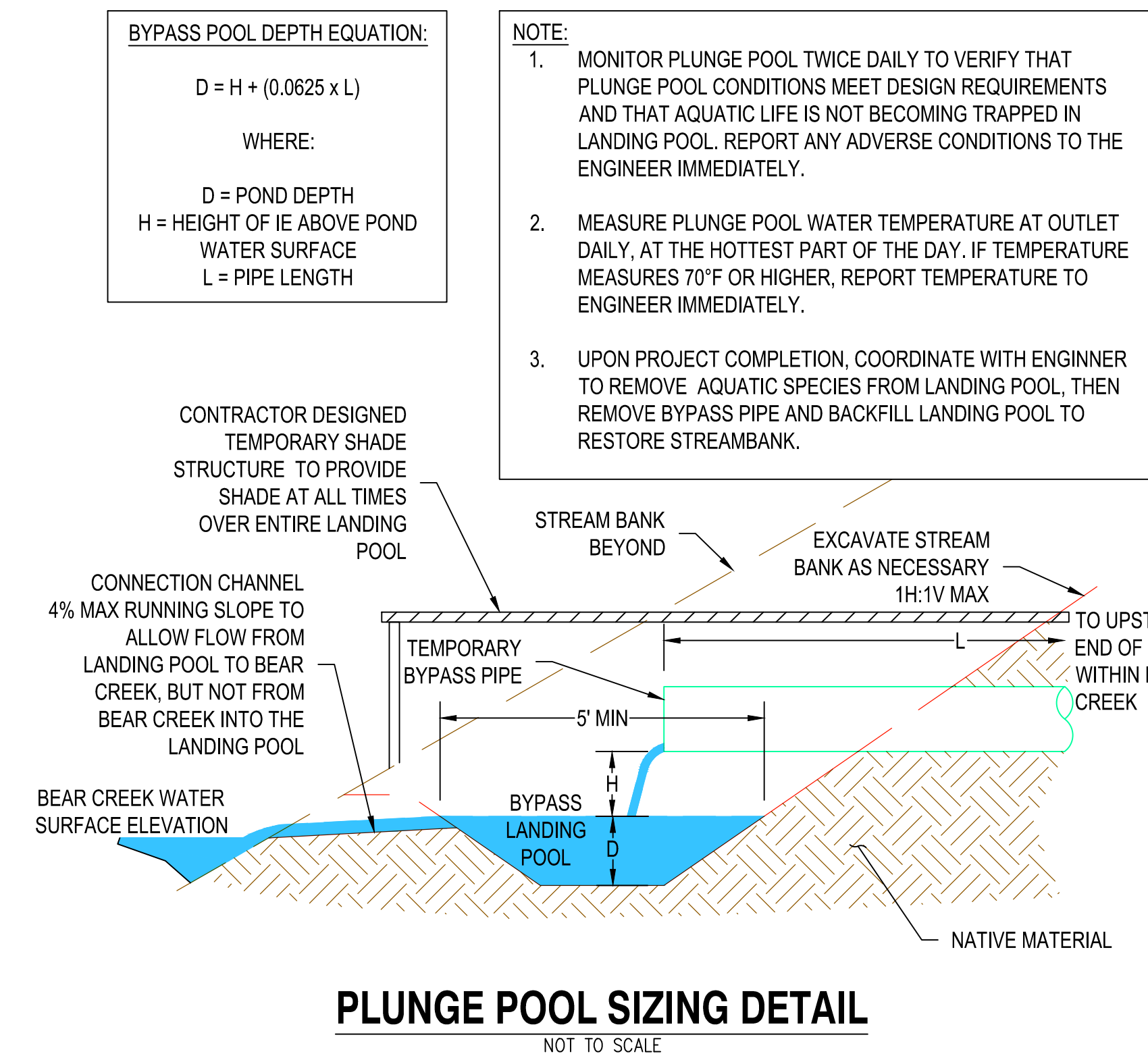
**PLAN VIEW**  
1" = 20'



**1 CULVERT DEMOLITION**  
NOT TO SCALE



**2 CULVERT OUTLET DEMOLITION**  
NOT TO SCALE



**PLUNGE POOL SIZING DETAIL**  
NOT TO SCALE

**GENERAL NOTES**

1. LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
2. ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REMOVE ALL COMPONENTS SHOWN TO BE DEMOLISHED IN THEIR ENTIRETY, AND SHALL PROPERLY DISPOSE OF ALL REMOVED ITEMS.

**KEY NOTES**

- 1 REMOVE (2) EXISTING CULVERTS AND GUARDRAIL.
- 2 CLEAR AND GRUB AREA TO LIMITS SHOWN.
- 3 ODOT TYPE 4 SANDBAG CHECK DAM APPROX 3' HIGH, REFER TO DETAIL RD1005 ON SHEET D04.
- 4 12" DIAMETER BY APPROX 60' LONG TEMPORARY BYPASS PIPE INSTALLED 24" ABOVE THALWEG. ALLOW FOR APPROX 1 CFS BYPASS FLOW TO BEAR CREEK. REFER TO KEYNOTE 7.
- 5 REMOVE EXISTING TREE(S), SALVAGE FOR USE IN CONSTRUCTING ROOT WAD STRUCTURES.
- 6 PROTECT EXISTING TREE(S).
- 7 BYPASS PIPE LANDING POOL, REFER TO DETAIL ON THIS SHEET.
- 8 REMOVE GRAVEL FROM EX ACCESS ROAD TO LIMITS SHOWN.

**VICINITY MAP**



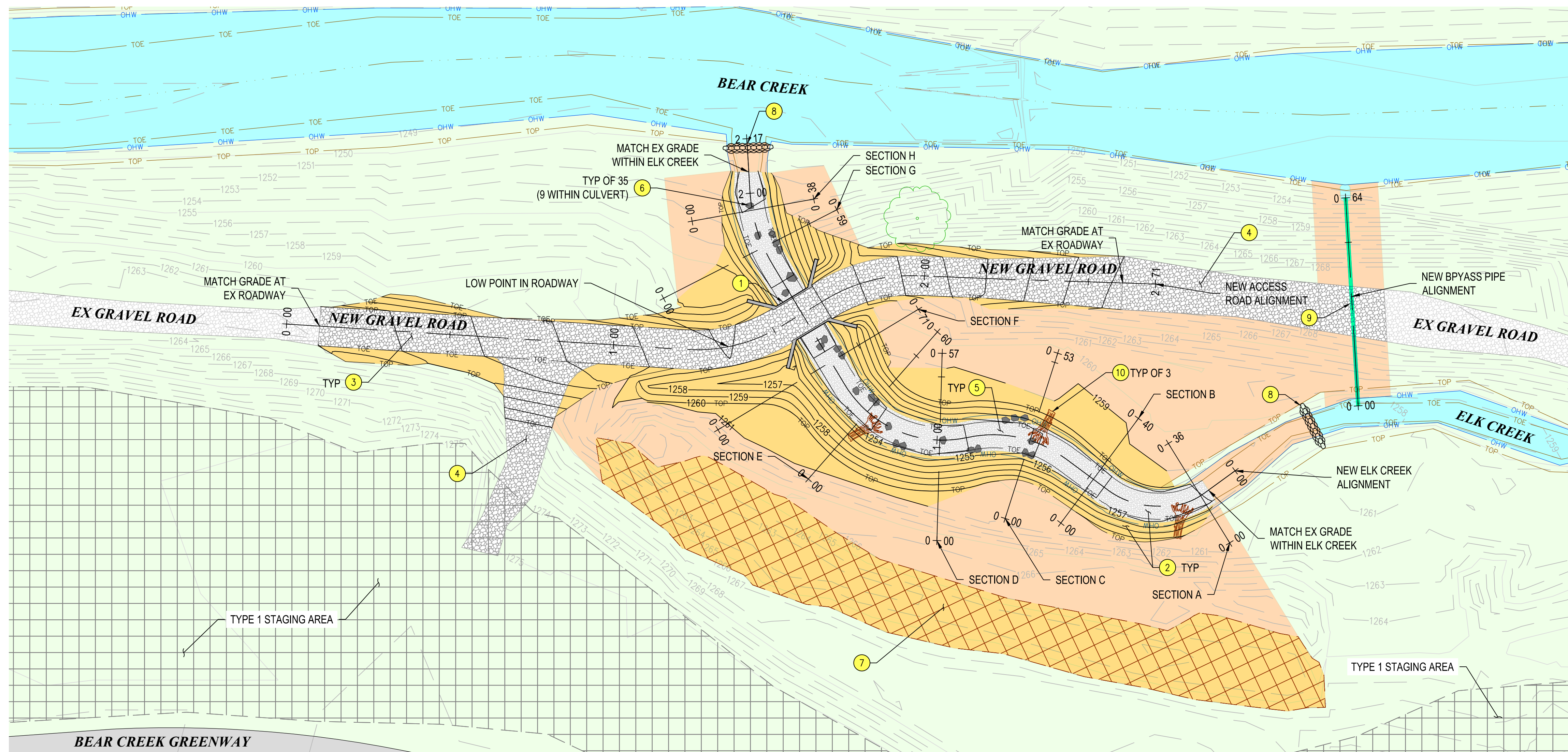
**CITY OF CENTRAL POINT**  
ELK CREEK CULVERT REPLACEMENT



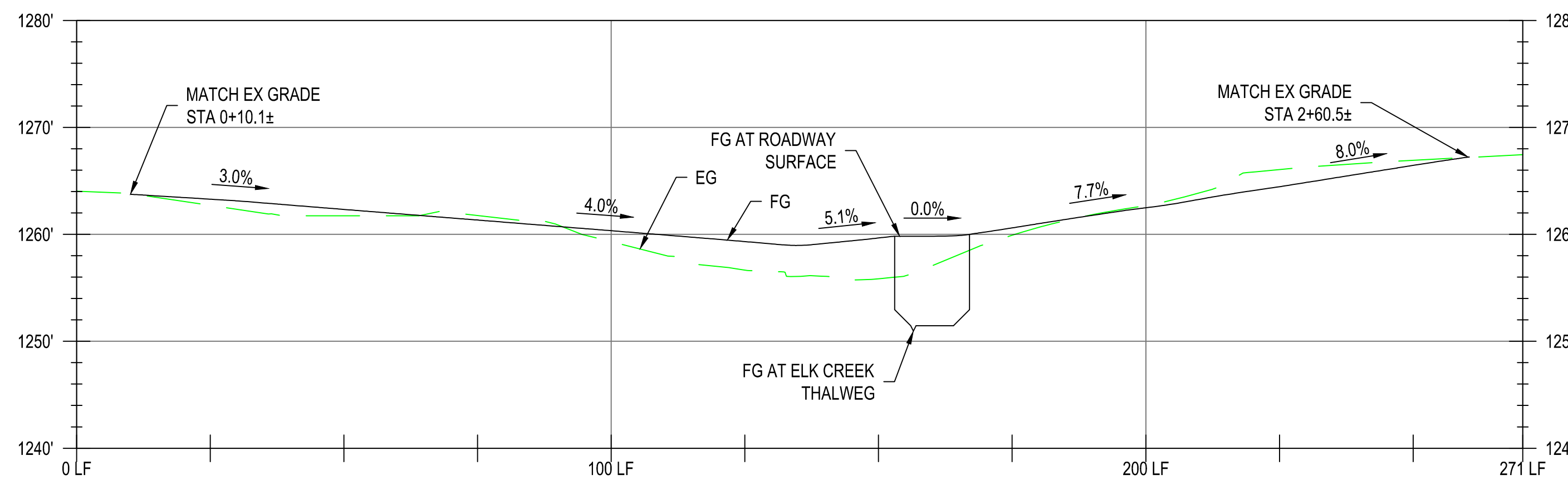
**EXISTING & DEMOLITION PLAN**

NO.	DATE	DESCRIPTION	BY	REVIEW

SCALE: SHOWN  
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"  
DWG NO.: C01 SHEET NO.: 4



**PLAN VIEW**  
1" = 20'



**ROAD ALIGNMENT PROFILE**  
H: 1" = 20', V: 1" = 10'

**GENERAL NOTES**

1. LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
2. ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.

**KEY NOTES**

1. INSTALL PRECAST CONC CULVERT WITH WINGWALLS. REFER TO DETAILS ON DRAWINGS D01, D02, & D04.
2. GRADE ALONG NEW ELK CREEK ALIGNMENT ACCORDING TO PROFILE AND SECTIONS SHOWN ON DRAWING C03, AND DETAILS ON DRAWING D02.
3. PERFORM GRADING AND INSTALL ACCESS ROAD, REFER TO ACCESS ROAD PROFILE ON THIS DRAWING.
4. ADD AGGREGATE BASE ROCK TO THE EX ACCESS ROAD AS REQUIRED TO MEET THE SLOPE AND DEPTH REQUIREMENTS SHOWN IN DETAIL 6 ON DRAWING D02.
5. INSTALL STREAMBED MATERIAL TO DEPTH AND GEOMETRY SHOWN IN THIS DRAWING AND THE DETAILS IN DRAWINGS D01 AND D02. REFER TO SPECIFICATIONS FOR SELECTION AND GRADATION REQUIREMENTS.
6. INSTALL LOCALLY SOURCED QUARRIED STREAMBED BOULDER 14"-22" DIAMETER, REFER TO TYPICAL CHANNEL SECTION AND SPECIFICATIONS. BOULDERS SHALL BE MACHINE PLACED AND EMBEDDED INTO STREAMBED MATERIAL. END DUMPING IS NOT ALLOWED.
7. CLEAN NATIVE MATERIAL EXCAVATED FROM WITHIN THE PROJECT FOOTPRINT MAY BE USED AS FILL WITHIN THE EXISTING DEPRESSION AREA SHOWN. GRADE ALL PLACED MATERIAL TO BE UNIFORM AND NO HIGHER THAN ADJACENT AREAS.
8. UPON PROJECT COMPLETION AND ACCEPTED STREAMBED STABILIZATION, REMOVE CHECK DAM ALLOWING STREAM FLOWS TO SLOWLY ENTER THE NEWLY CONSTRUCTED PORTION OF ELK CREEK, TO MINIMIZE TURBIDITY.
9. UPON CHECK DAM REMOVAL, REMOVE BYPASS PIPE. FILL IN THE BYPASS PIPE LANDING POOL AND TRENCH LEFT FROM PIPE REMOVAL WITH NATIVE FILL ACQUIRED ONSITE. ALL FILL SHALL BE COMPACTED TO 92% IN 8" THICK MAX LOOSE LIFTS. COMPACTION IS BASED ON MAXIMUM DRY DENSITY PER ASTM D-698 (STANDARD PROCTOR). RESTORE ALL DISTURBED PORTIONS OF THE STREAM BANKS, STREAM BEDS, GRAVEL ROADWAY, AND OTHER AREAS TO EXISTING OR BETTER CONDITION.
10. INSTALL ROOT WADS IN STREAM BED AT THE APPROX LOCATIONS SHOWN. ROOT WADS TO BE OBTAINED FROM EXISTING TREES TO BE REMOVED OR LOCALLY SOURCED, REFER TO SPECS AND DETAIL 2 ON DRAWING D02.

**VICINITY MAP**

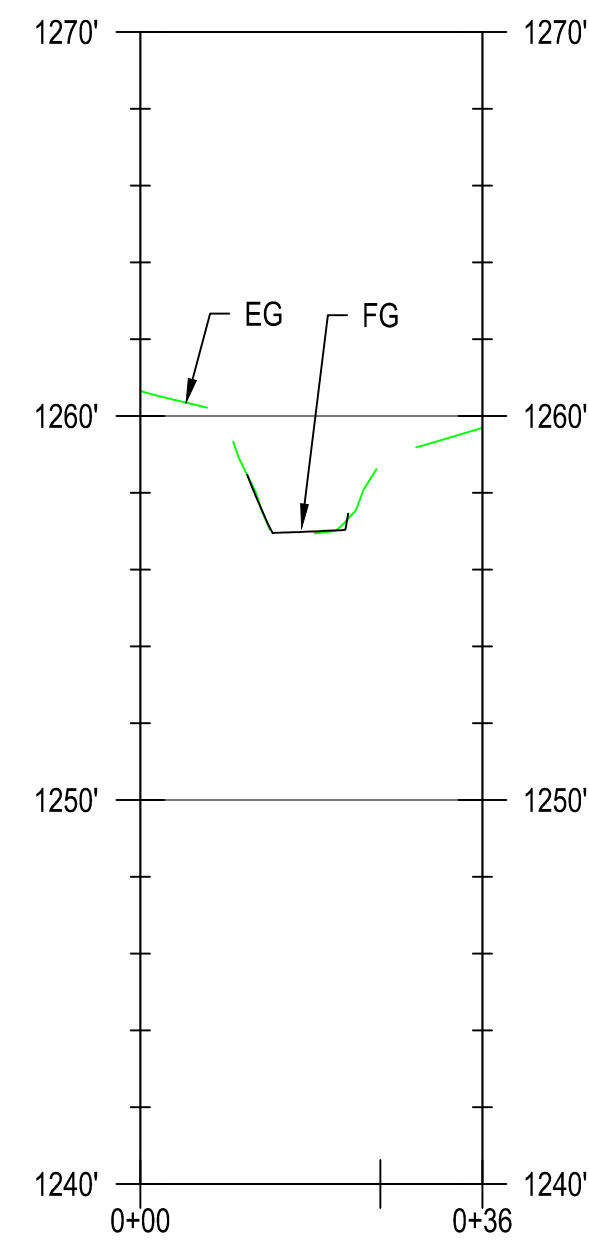


CITY OF CENTRAL POINT  
ELK CREEK CULVERT REPLACEMENT

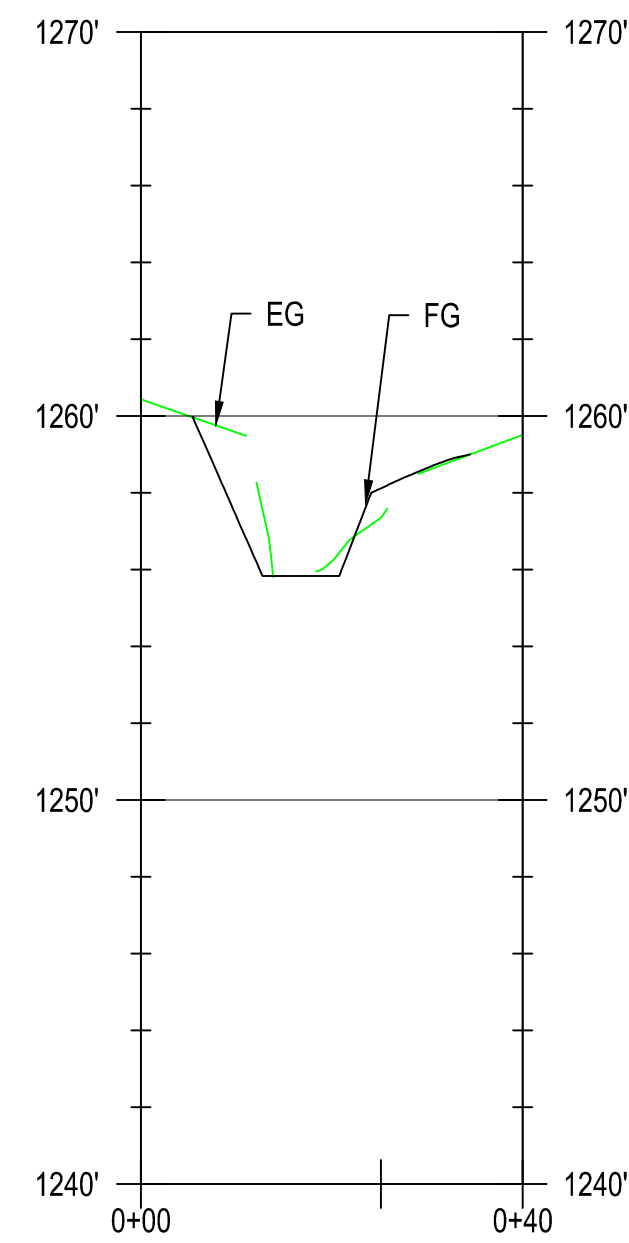
PROPOSED SITE AND GRADING PLAN

NO.	DATE	DESCRIPTION	BY	REVIEW

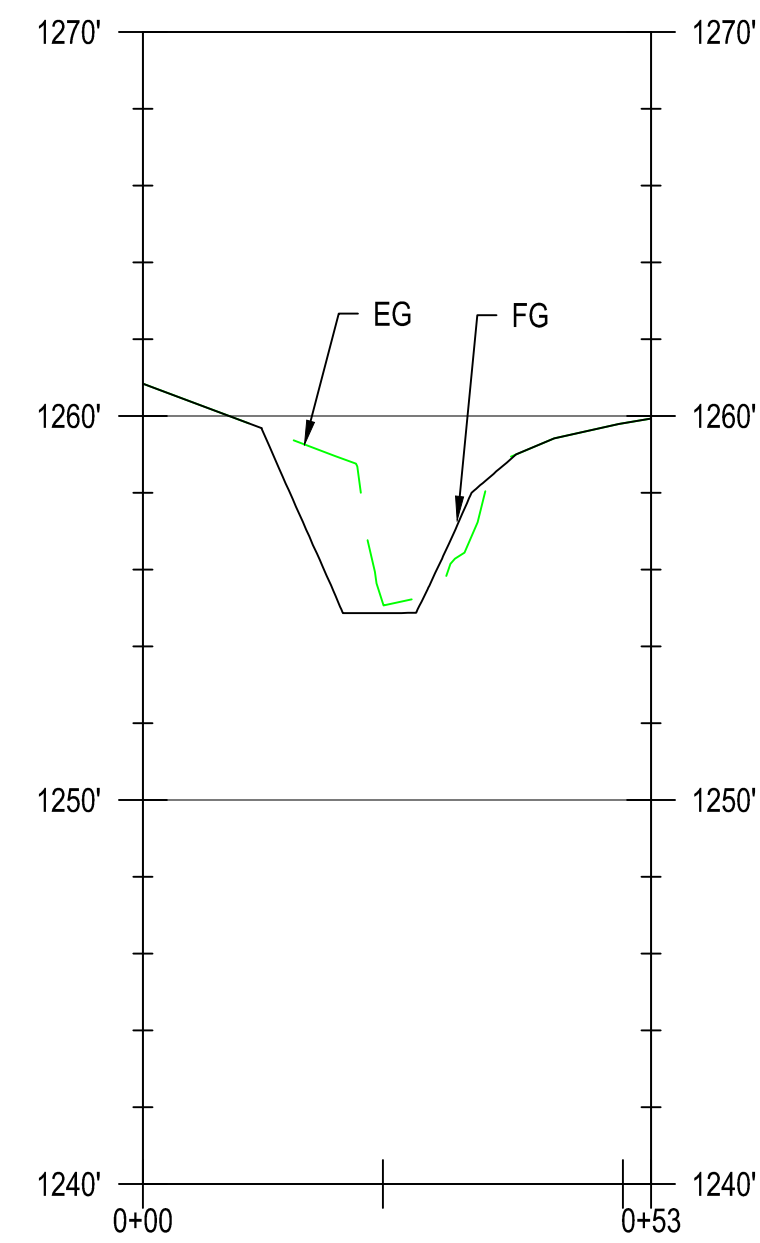
SCALE: SHOWN  
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"  
DWG NO.: C02 SHEET NO.: 5 OF 12



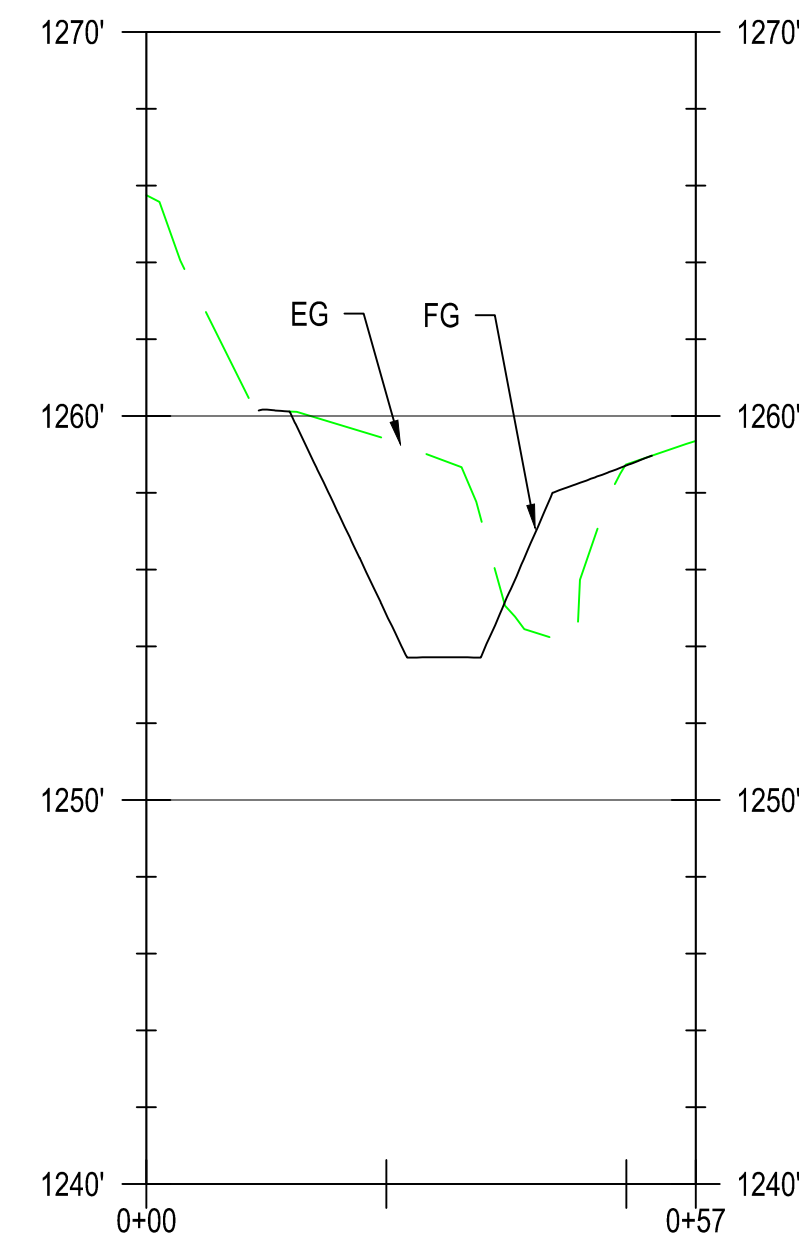
**SECTION A**  
H: 1" = 20', V: 1" = 5'



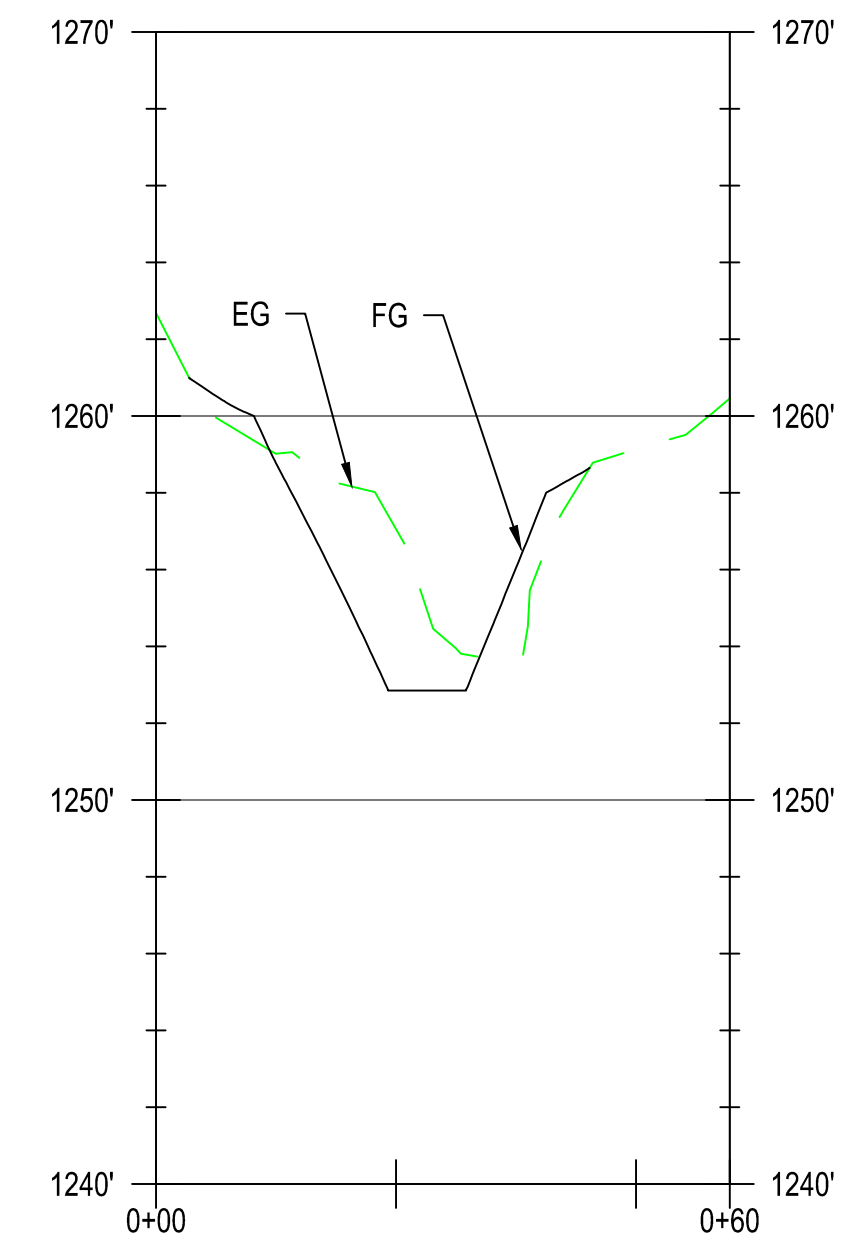
**SECTION B**  
H: 1" = 20', V: 1" = 5'



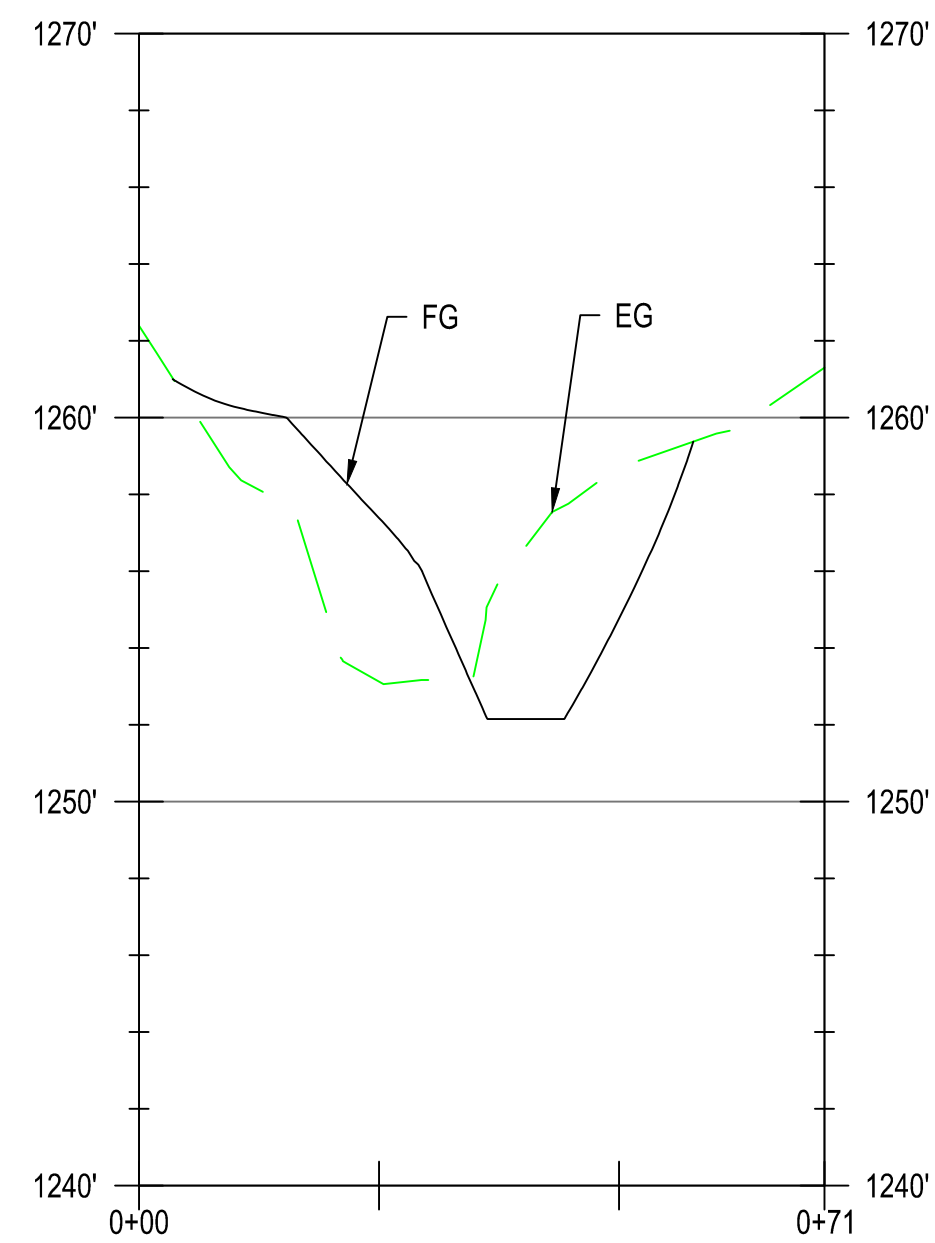
**SECTION C**  
H: 1" = 20', V: 1" = 5'



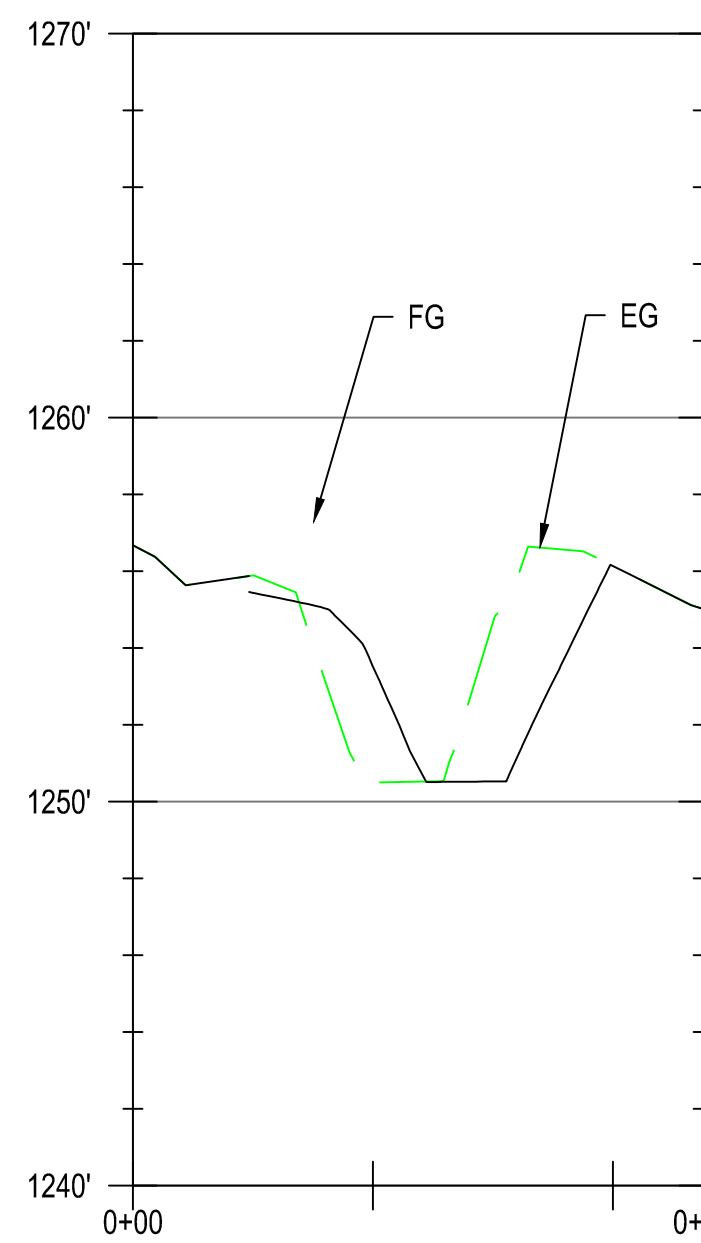
**SECTION D**  
H: 1" = 20', V: 1" = 5'



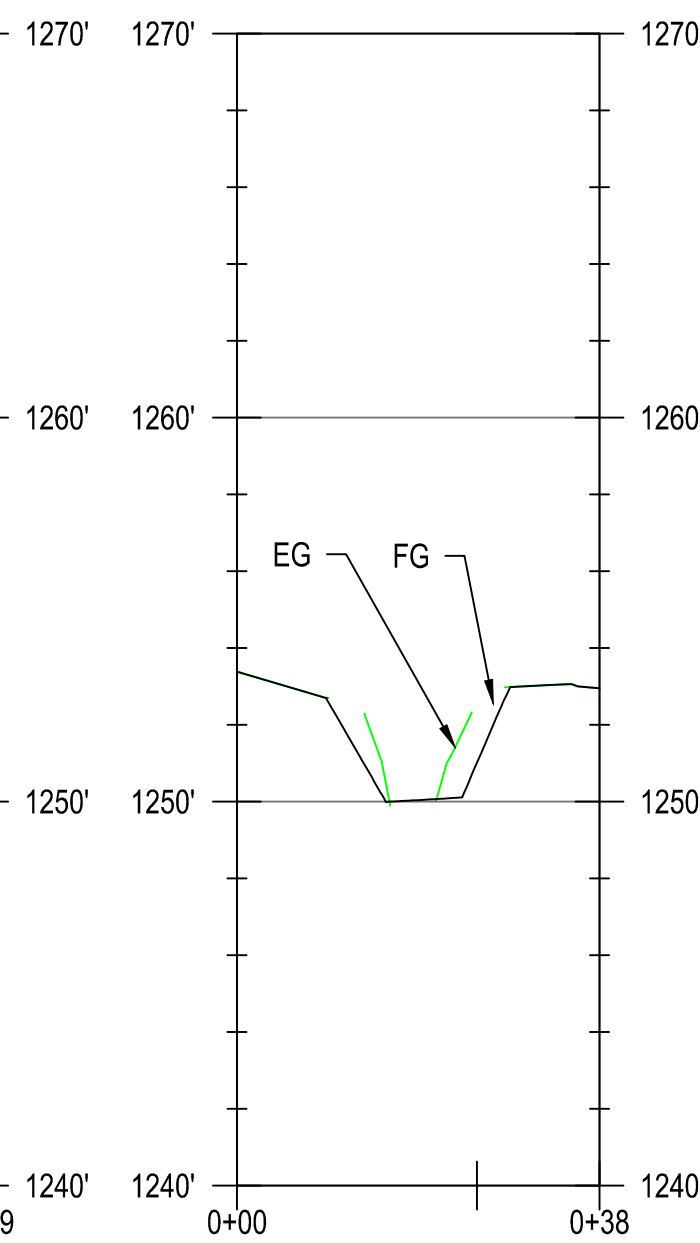
**SECTION E**  
H: 1" = 20', V: 1" = 5'



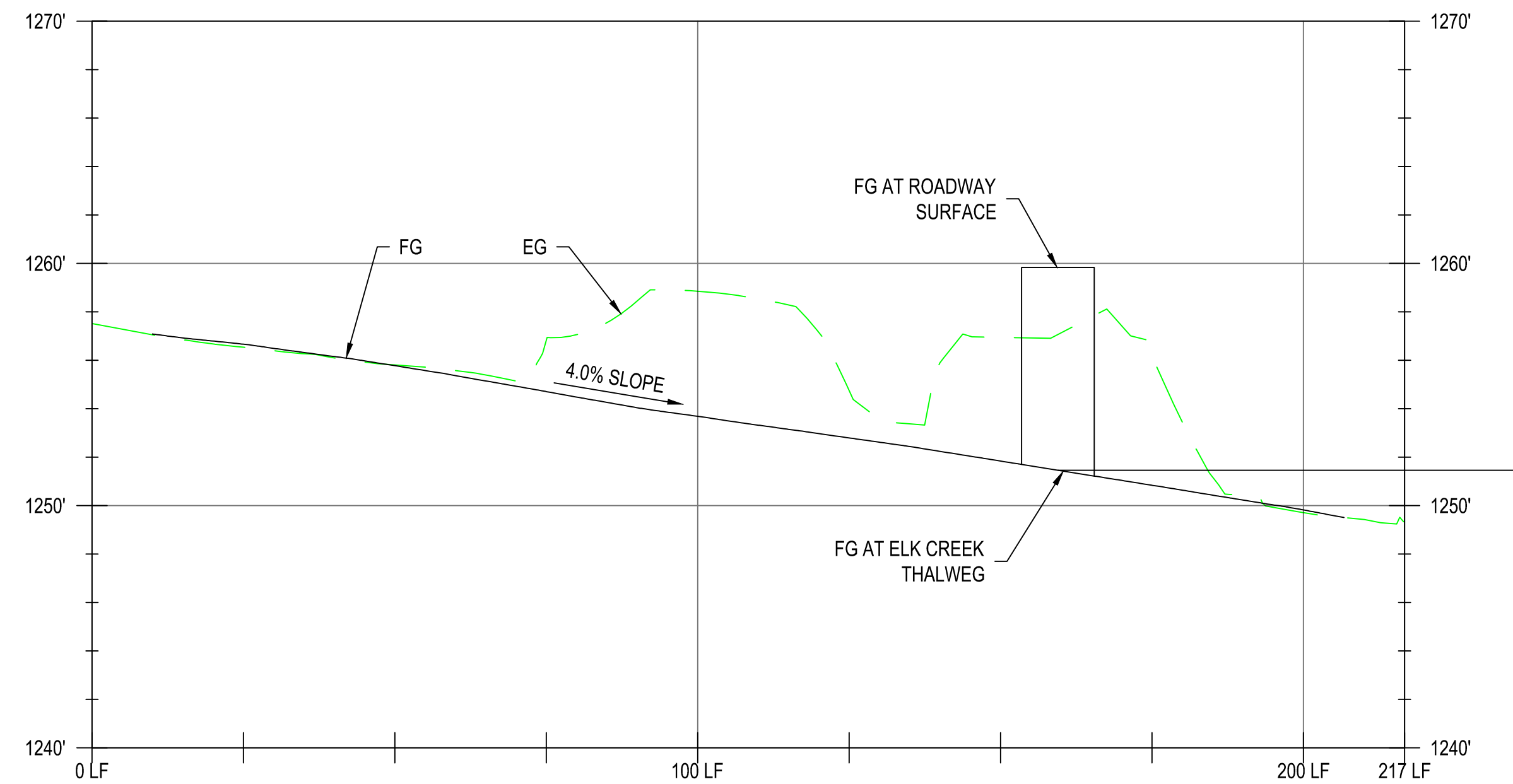
**SECTION F**  
H: 1" = 20', V: 1" = 5'



**SECTION G**  
H: 1" = 20', V: 1" = 5'



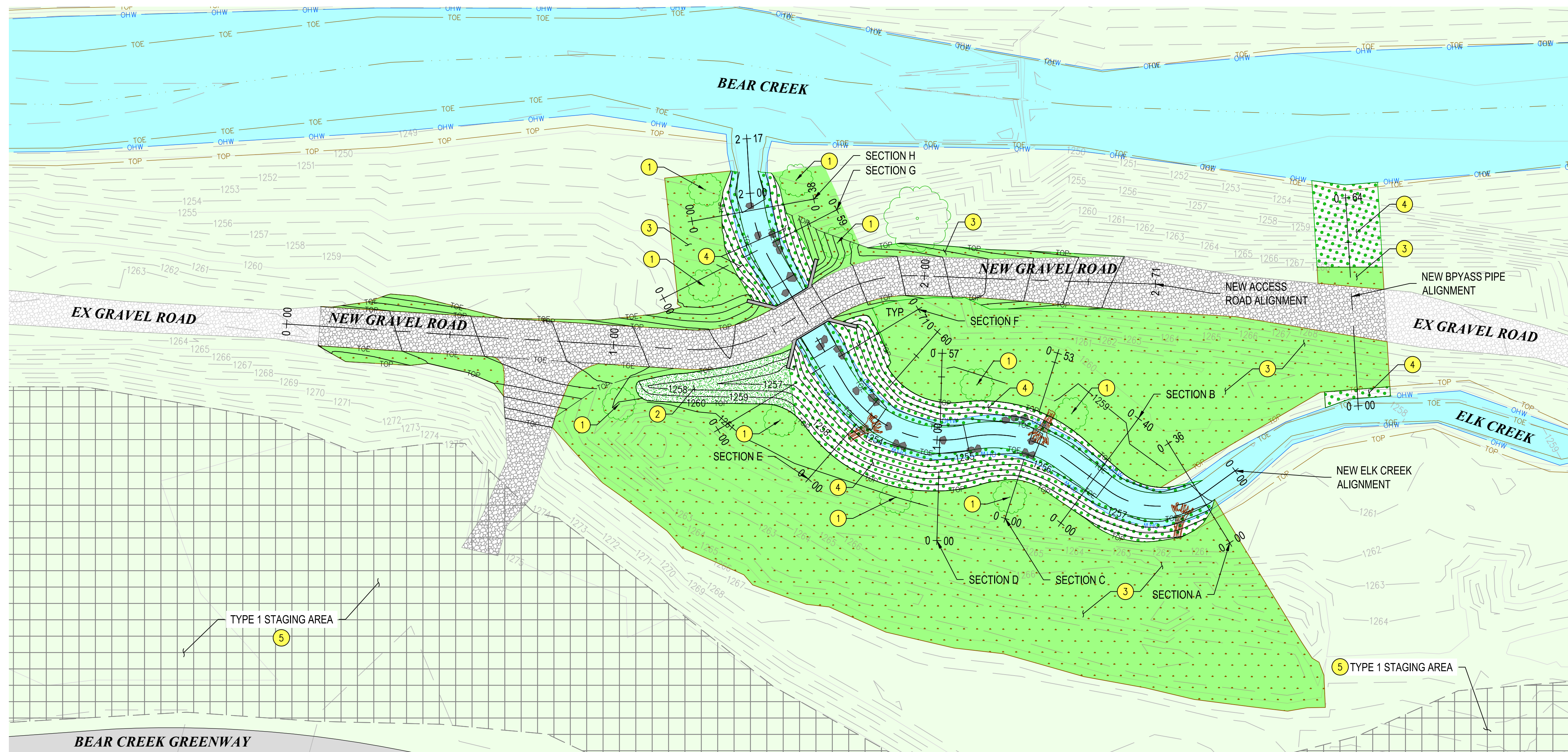
**SECTION H**  
H: 1" = 20', V: 1" = 5'



**ELK CREEK ALIGNMENT PROFILE**  
H: 1" = 20', V: 1" = 5'

NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: TMD	DATE: May 8, 2023	CLIENT: CPT	JOB NO.: 1015-583
REVIEWER: RLB	PLOT DATE: May 8, 2023	FILENAME: BCCP-CV.DWG	



**PLAN VIEW**  
1" = 20'



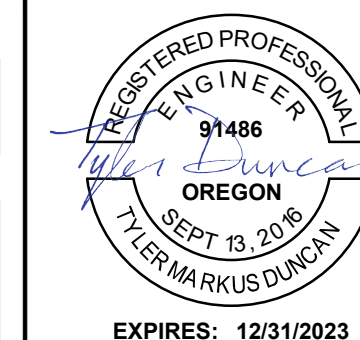
**GENERAL NOTES**

1. LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
2. ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
3. LOOSEN ALL SOILS OUTSIDE OF PERMANENT ACCESS ROADS TO RESTORE SOIL PERMEABILITY, SEED ALL DISTURBED EARTH AREAS, INCLUDING PLANTED AREAS WITH NATIVE SEED MIX, REFER TO GENERAL NOTES SHEET, AND PLANTING DETAILS AND NOTES ON SHEET D03.

**KEY NOTES**

- 1 PLANT OREGON ASH TREES IN APPROX. LOCATIONS SHOWN.
- 2 PLANT SCOURING RUSH AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 3 PLANT MIX OF SNOWBERRY, SWORD FERN, OREGON GRAPE, AND PACIFIC BLACKBERRY AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 4 INSTALL ODOT TYPE E EROSION CONTROL MATTING AND PLANT LIVE STAKE WILLOW PLANTINGS AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 5 SEED ALL STAGING AREAS AND ALL OTHER DISTURBED AREAS WITH NATIVE SEED MIX.

**VICINITY MAP**



**CITY OF CENTRAL POINT**  
**ELK CREEK CULVERT REPLACEMENT**

**FINAL RESTORATION PLAN**

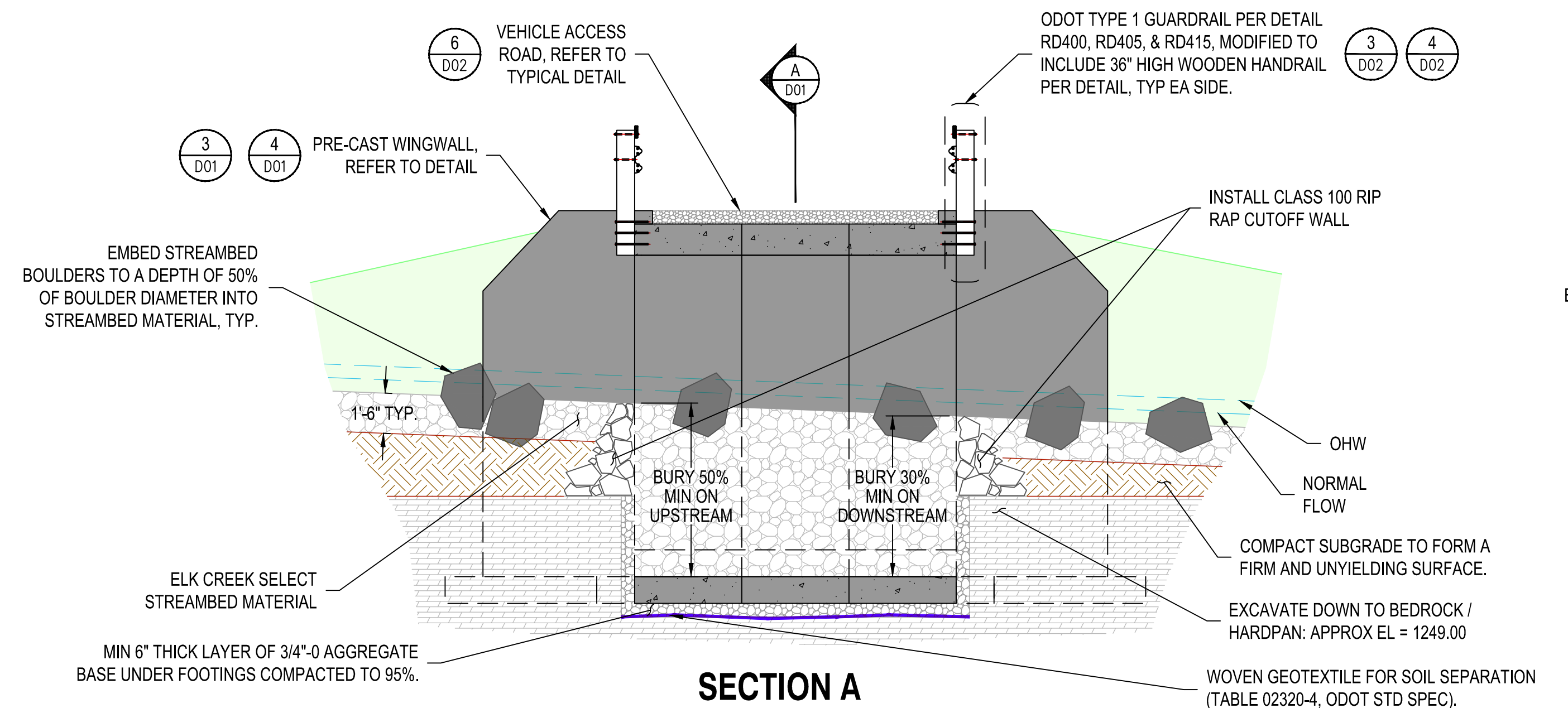


NO.	DATE	DESCRIPTION	BY	REVIEW

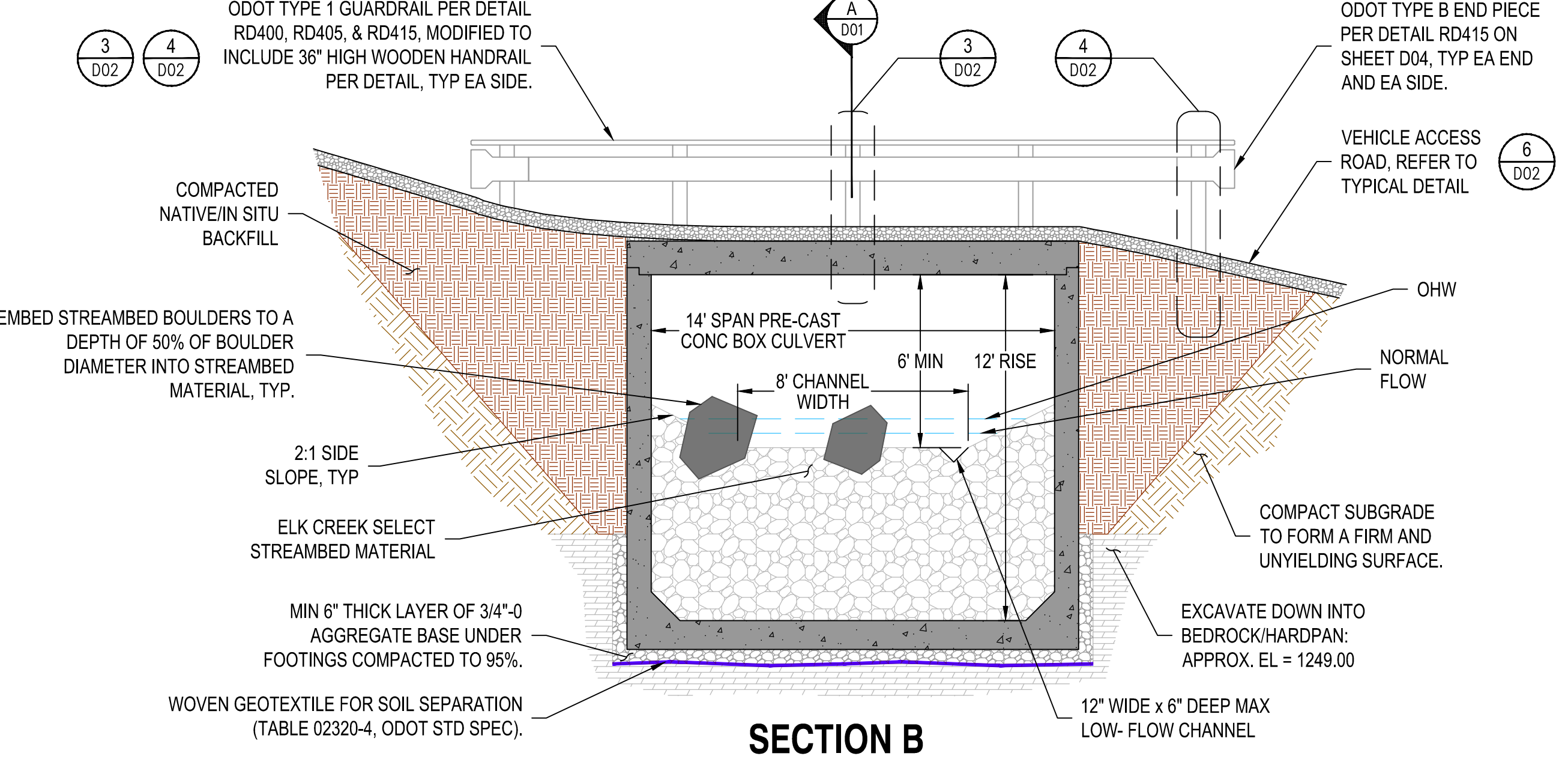
ENGINEER: TMD	DATE: May 8, 2023	CLIENT: CPT	JOB NO.: 1015483
REVIEWER: RLB	DATE: May 8, 2023	FILENAME: BCCP-OV.DWG	
<b>REVISIONS</b>			
DWG NO.: C04	SHEET NO.: 7	SCALE: SHOWN	

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

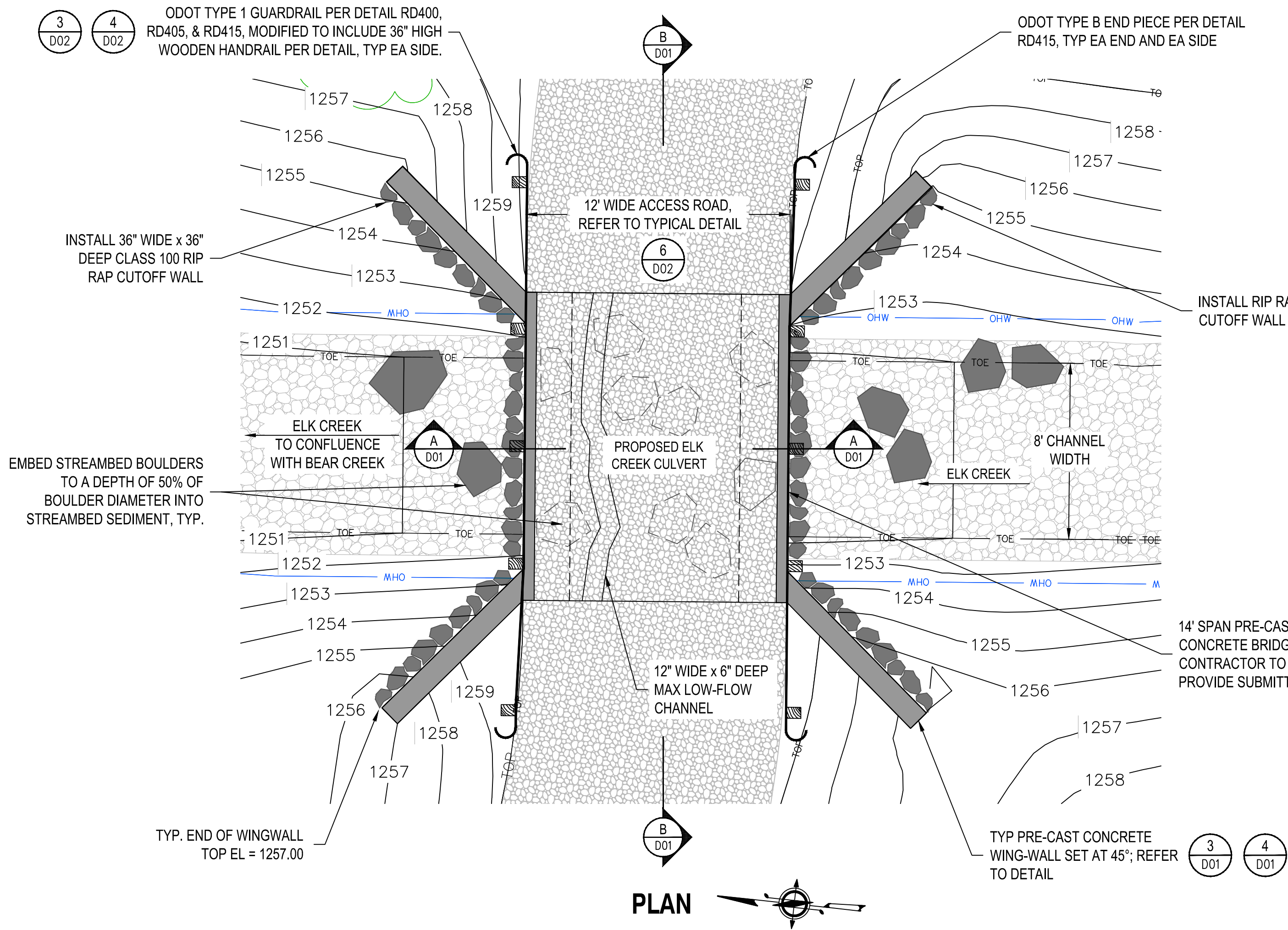
NO.	DATE	DESCRIPTION	BY	REVIEW



**SECTION A**



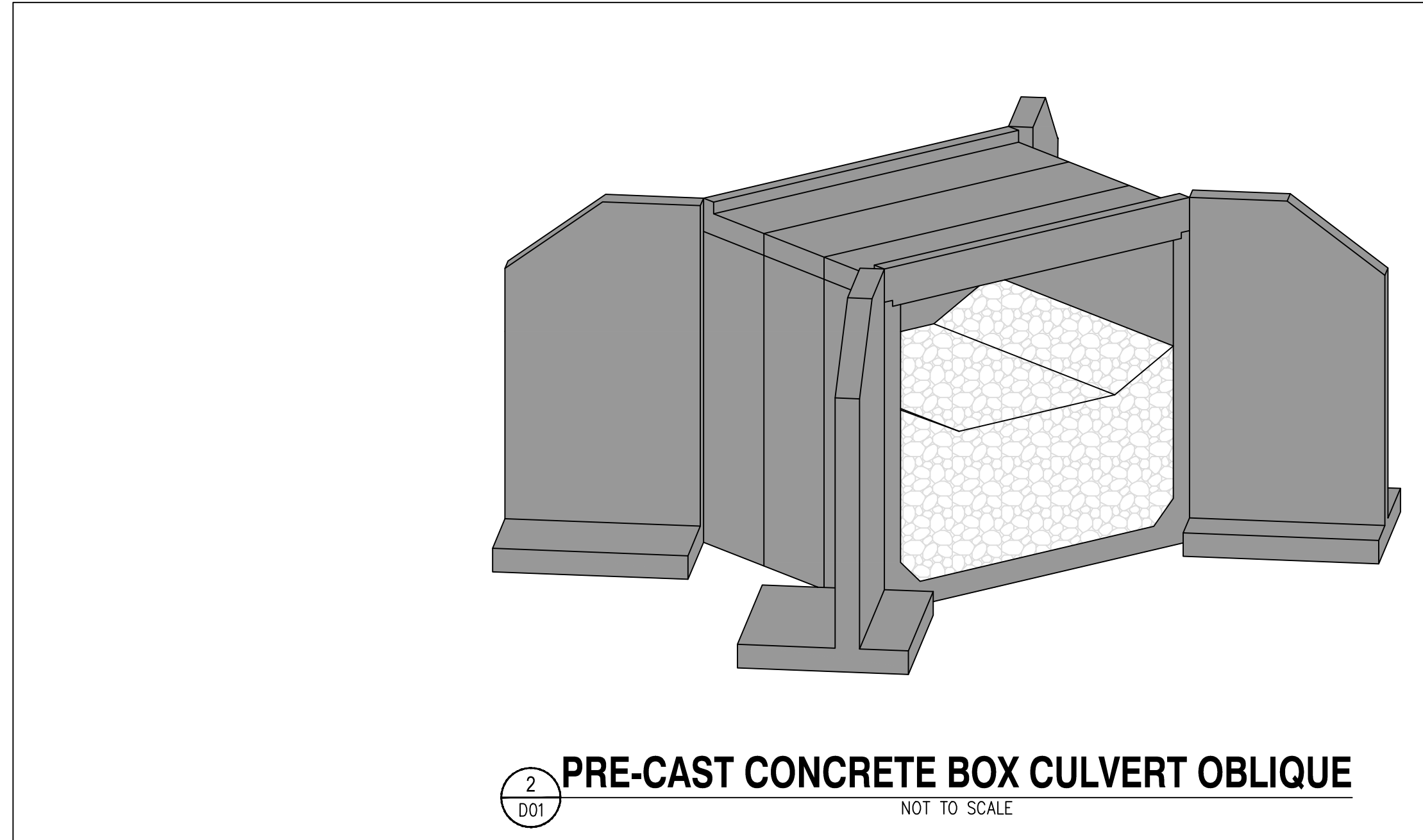
**SECTION B**



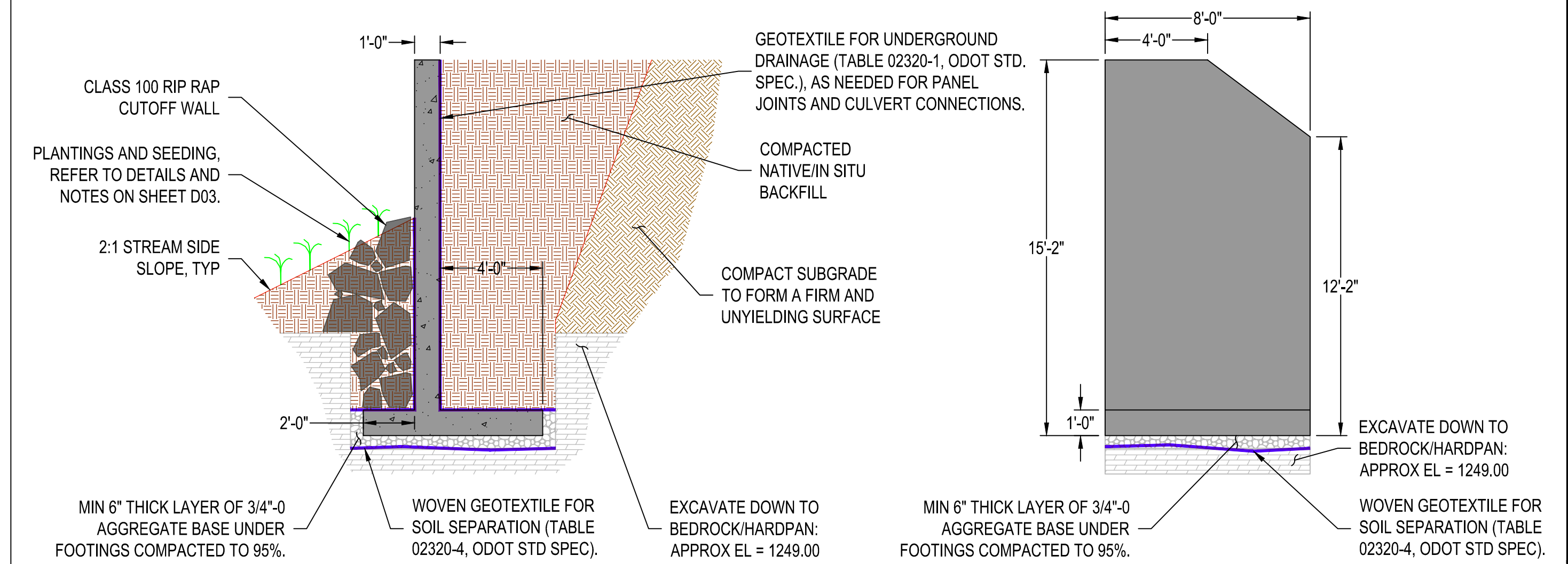
**PLAN**

**NOTES:**  
1. CULVERT IS BASED UPON THE PROVISIONS OF THE ANADROMOUS SALMONID PASSAGE FISH FACILITY DESIGN PUBLISHED BY THE NATIONAL MARINE FISHERIES SERVICE NORTHWEST REGION, AND THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.

**1 PRE-CAST CONCRETE BOX CULVERT INSTALLATION**  
NOT TO SCALE



**2 PRE-CAST CONCRETE BOX CULVERT OBLIQUE**  
NOT TO SCALE



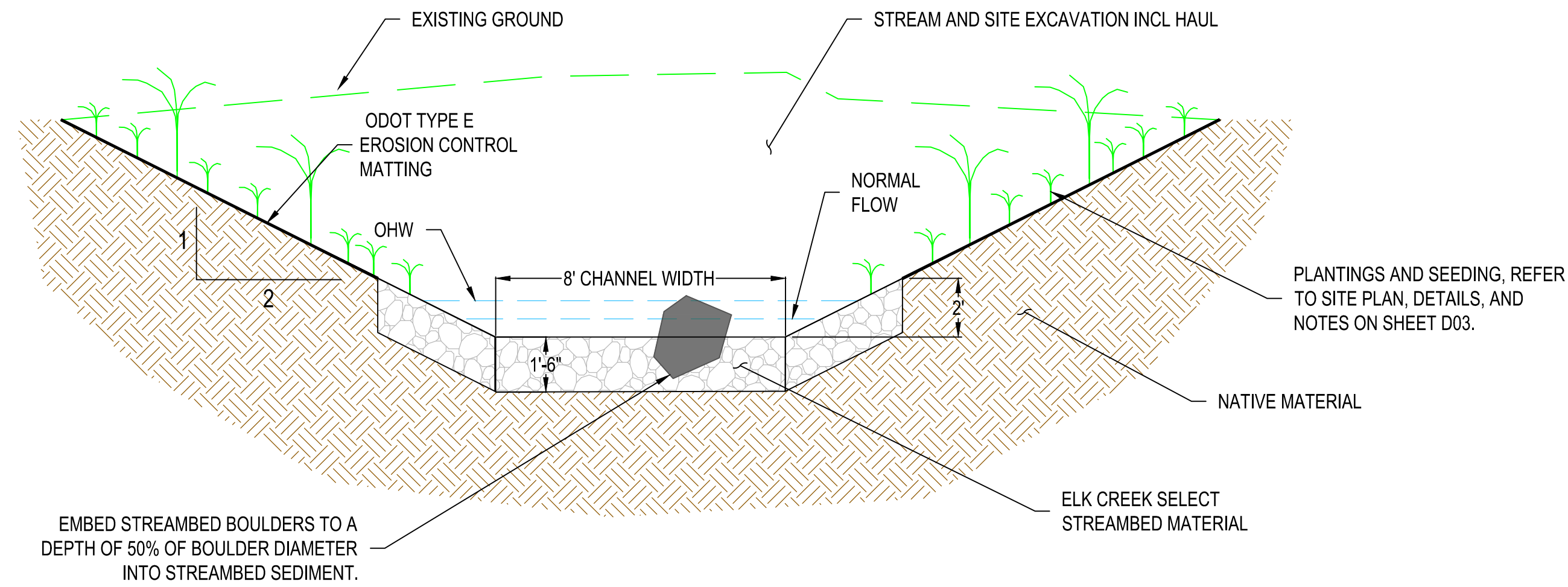
**3 WINGWALL SECTION**  
NOT TO SCALE

**4 WINGWALL PANEL DETAIL**  
NOT TO SCALE

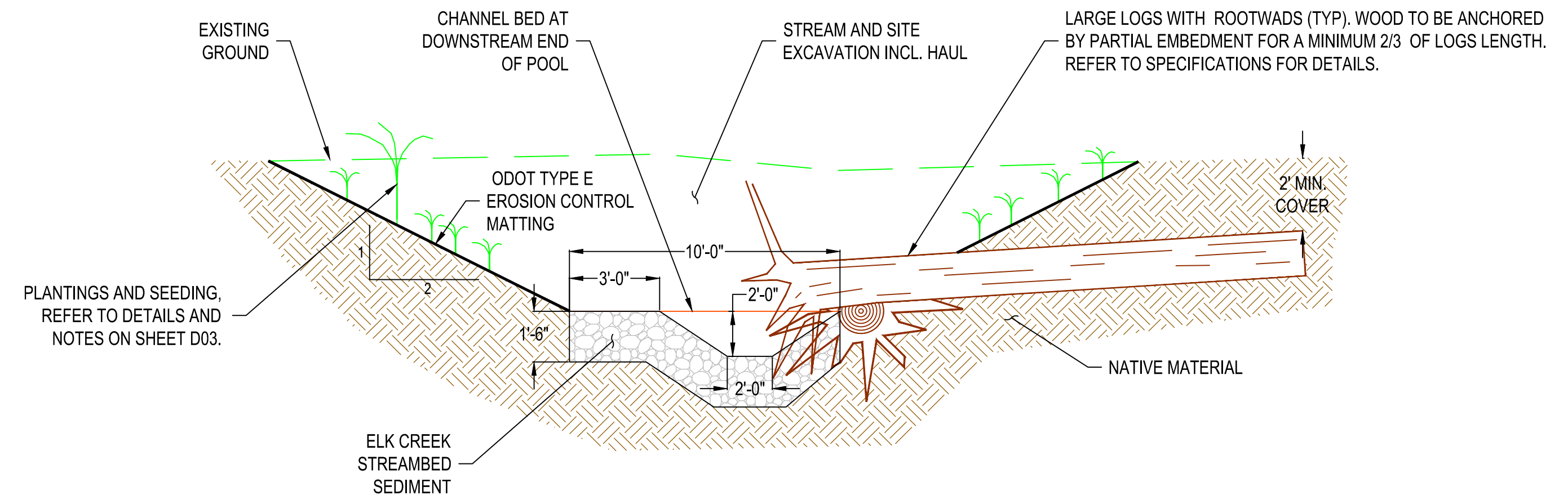
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW

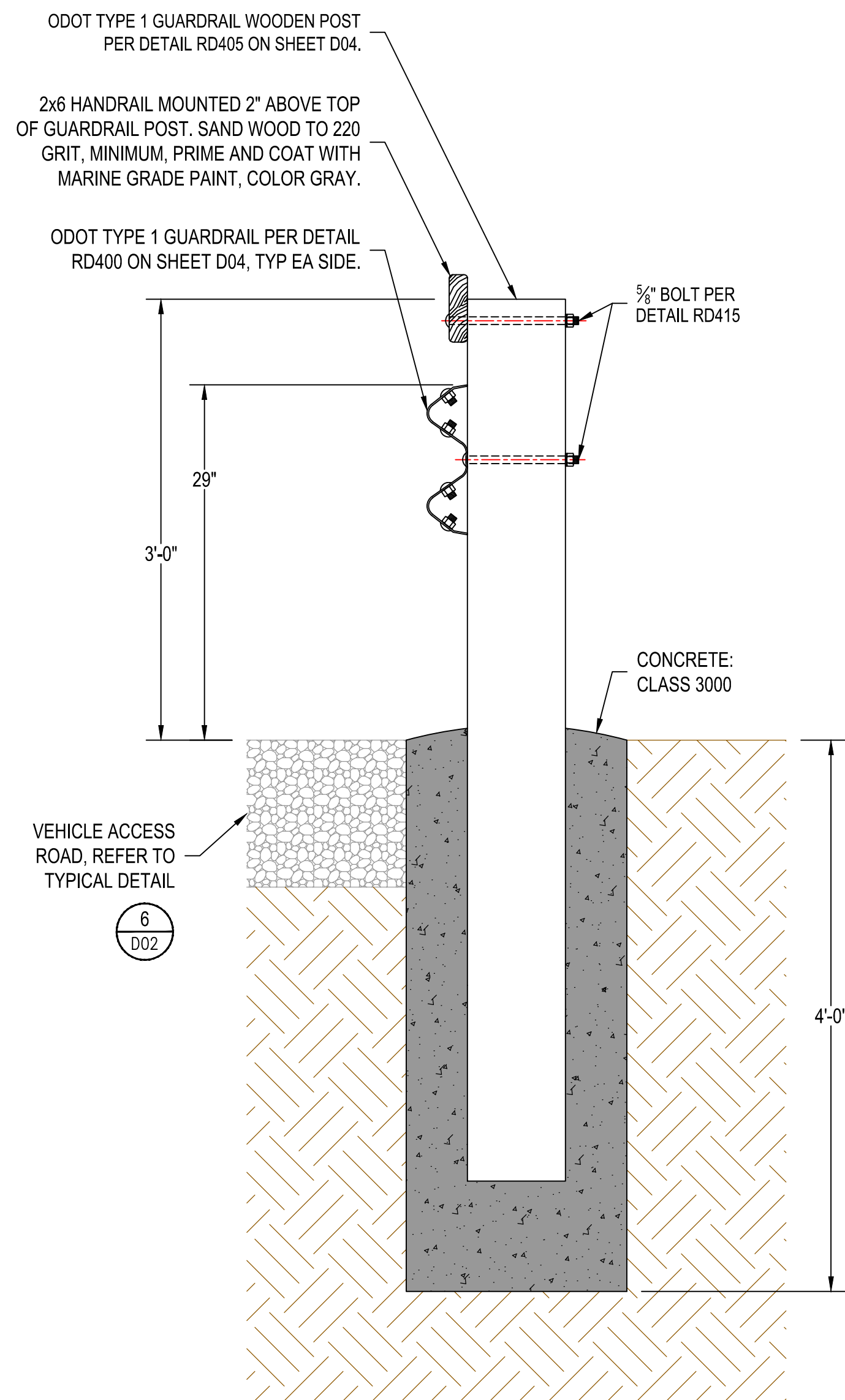




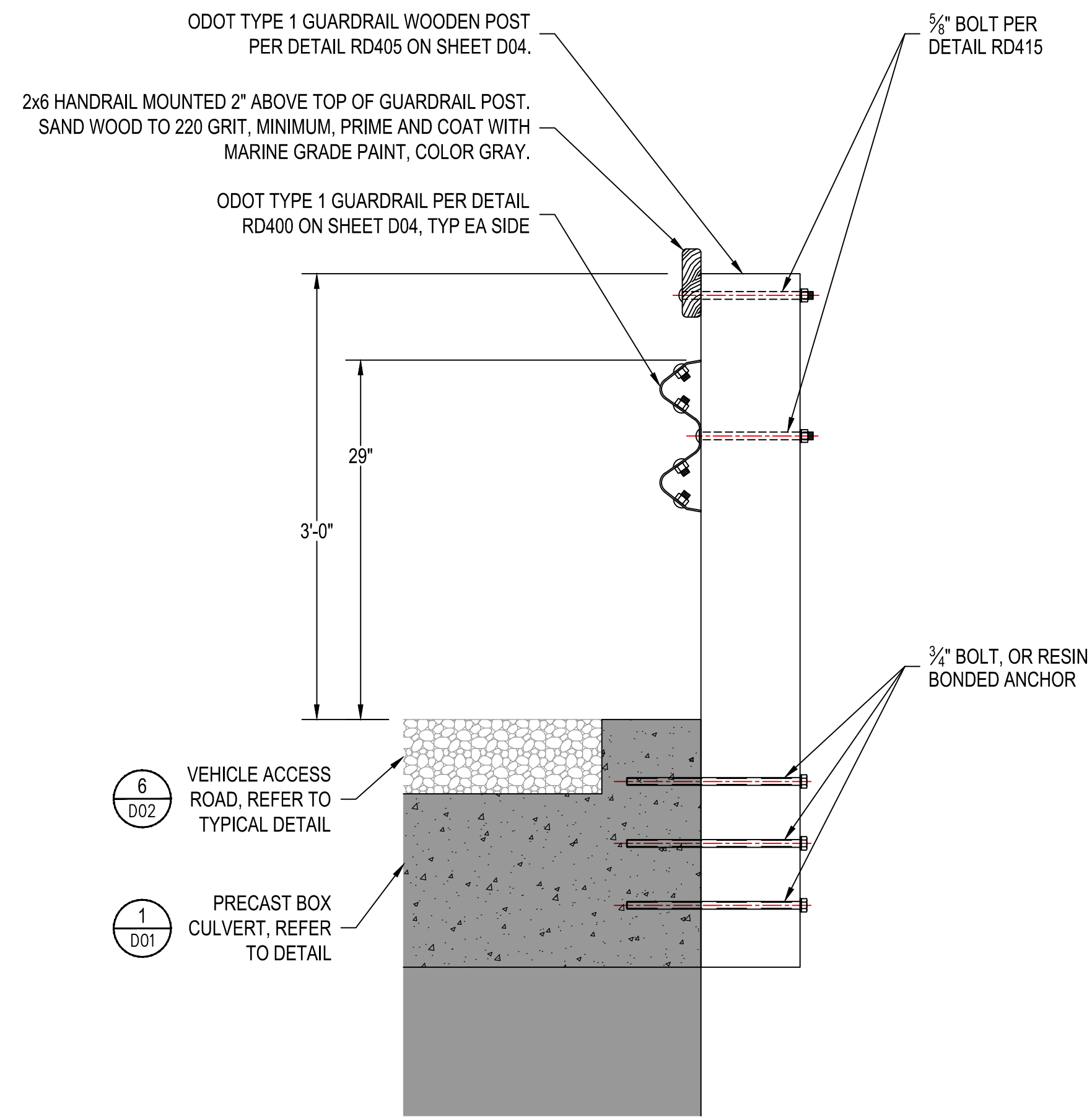
**1**  
D02 **TYP. STREAM SECTION**  
NOT TO SCALE



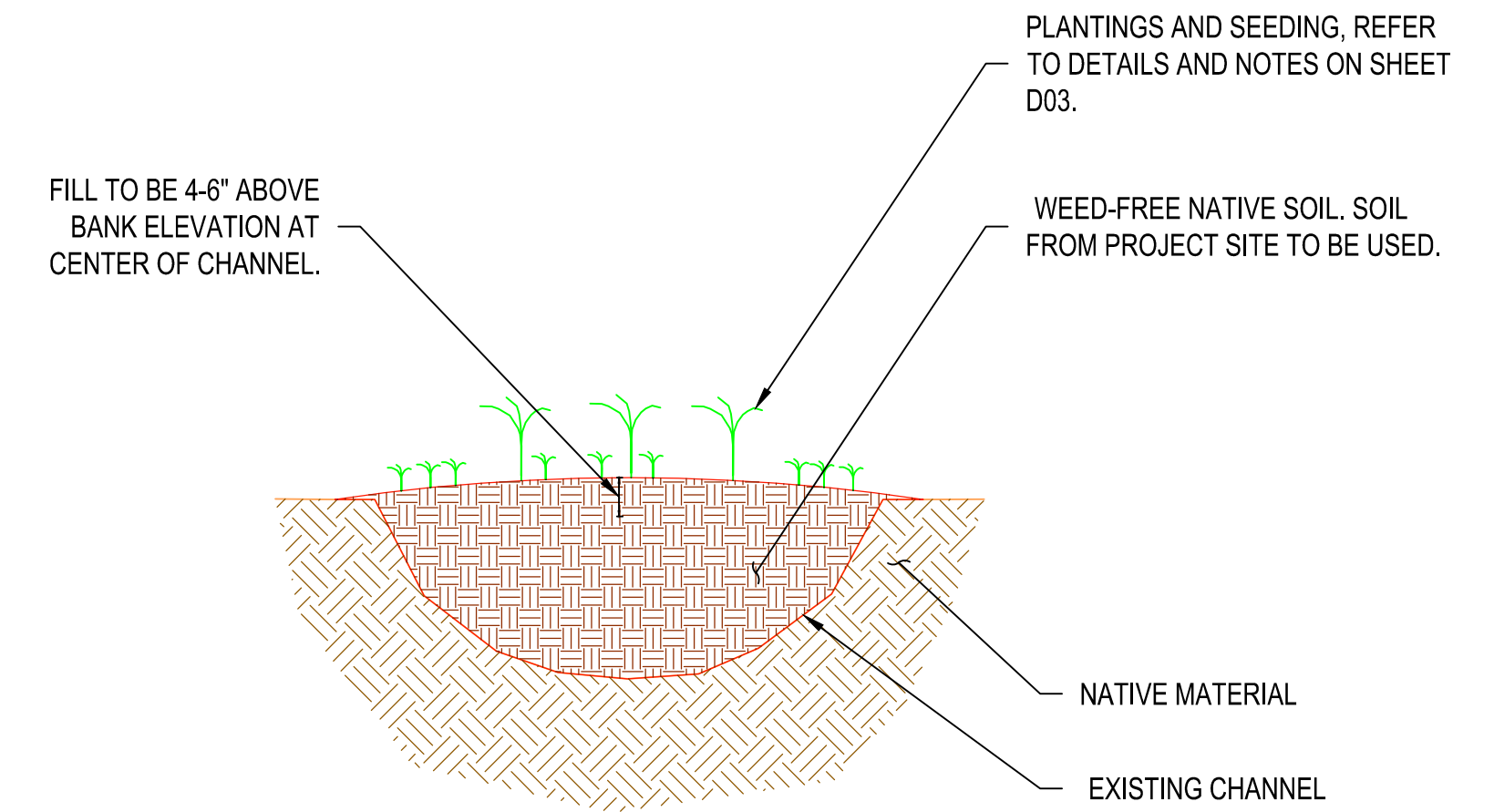
**2**  
D02 **POOL AND ROOT WAD SECTION**  
NOT TO SCALE



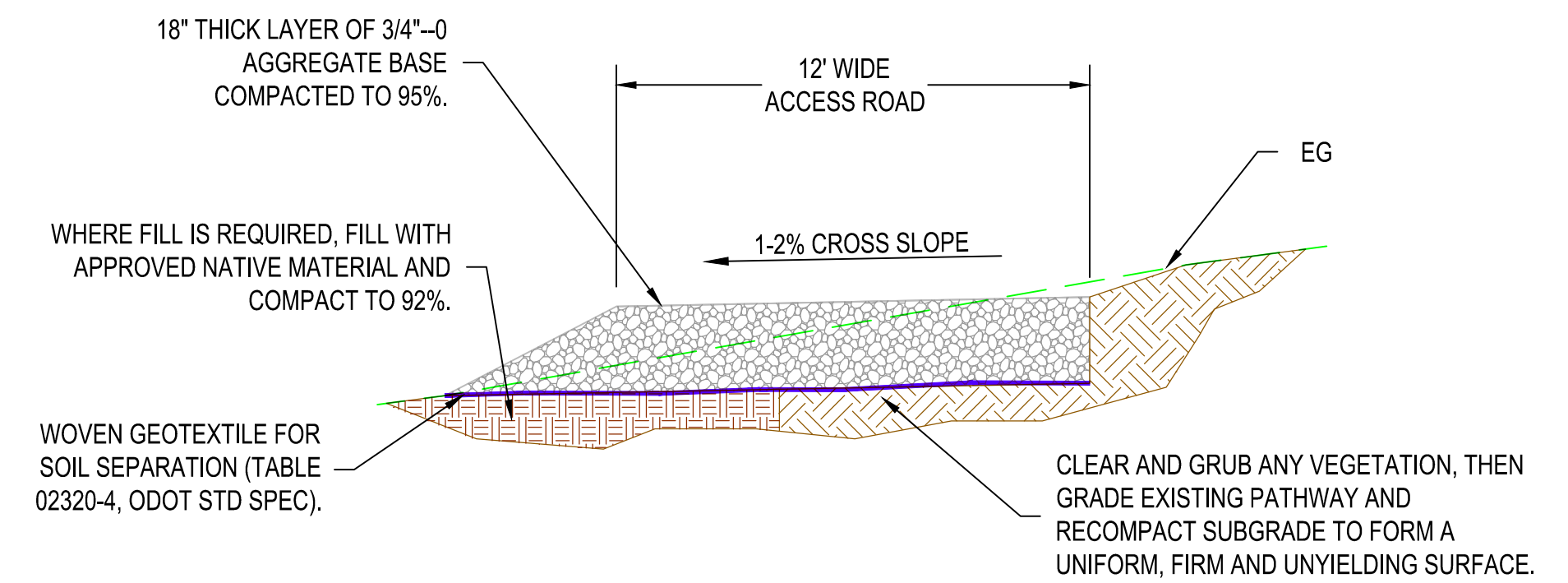
**3**  
D02 **GUARDRAIL POST CULVERT MOUNTING**  
NOT TO SCALE



**4**  
D02 **GUARDRAIL POST IN GROUND INSTALLATION**  
NOT TO SCALE



**5**  
D02 **EXISTING CHANNEL RESTORATION**  
NOT TO SCALE



- NOTES:**
- ALL FILL SHALL BE COMPACTED IN 8-INCH THICK MAX LOOSE LIFTS. COMPACTION IS BASED ON MAXIMUM DRY DENSITY PER ASTM D-698 (STANDARD PROCTOR).
  - CUT AND FILL SLOPES SHALL BE 3:1 MAX.

**6**  
D02 **TYPICAL VEHICLE ACCESS ROAD**  
NOT TO SCALE

NO.	DATE	DESCRIPTION	BY	REVIEW

## PLANTING AND SEEDING NOTES

### GENERAL PLANTING NOTES:

ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING THOSE SPECIFIC PLANTING AREAS SHOWN, SHALL BE REVEGETATED. PLANTING WILL OCCUR DURING THE IN-WATER WORK WINDOW FROM JUNE 15 TO AUGUST 31 AFTER CONSTRUCTION IS COMPLETE. PLANTING WILL BE DONE BY HAND. SEEDING WILL BE ACCOMPLISHED BY BROADCASTING OR HYDROSEEDING WHEN SOIL MOISTURE IS AVAILABLE (FALL). ANY DEVIATION FROM THE PLANTING PLAN MUST BE APPROVED BY THE CITY AND/OR CITY'S REPRESENTATIVE.

ALL PLANTING SHALL BE COMPLETED BY A LOCAL, LANDSCAPE CONTRACTOR WITH AT LEAST 5 YEARS OF EXPERIENCE IN NATIVE PLANT AND SENSITIVE AREAS RESTORATION. INVASIVE SPECIES REMOVAL AND TREATMENT SHALL ALSO BE COMPLETED BY A LANDSCAPE CONTRACTOR LICENSED AND EXPERIENCED IN THE LATEST TREATMENT METHODOLOGY.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING A PRE-PLANTING MEETING, SUCCESSFUL PLANT INSTALLATION, CITY ACCEPTANCE POST-PLANTING, CREATING AN AS-BUILT DRAWING SHOWING PLANT LOCATIONS FOLLOWING INSTALLATION, AND CARING FOR THE SITE FOR A 12-MONTH PLANT ESTABLISHMENT PERIOD. FOLLOWING THE PLANT ESTABLISHMENT PERIOD, THE CITY WILL ASSUME CARE OF THE SITE.

### REVEGETATION SEQUENCING:

REVEGETATION ACTIVITIES SHALL OCCUR PER THE FOLLOWING GENERAL SEQUENCE:

- PRE-PLANTING MEETING:** PRIOR TO PLANT INSTALLATION, THE LANDSCAPE CONTRACTOR, CITY AND/OR CITY'S REPRESENTATIVE SHALL MEET ON-SITE TO ENSURE THE PLANS AND SPECIFICATIONS ARE REVIEWED, AND ALL PARTIES UNDERSTAND THE REQUIREMENTS OF LANDSCAPE ACTIVITIES. PLANT LOCATION PLACEMENT SHALL BE COMPLETED WITH THE ON-SITE DIRECTION OF THE CITY AND/OR CITY'S REPRESENTATIVE.
- INSTALLATION:** COMPLETE PLANT INSTALLATION BY HAND IN ACCORDANCE WITH THE APPROVED PLANTING PLAN AND DETAILS.
 

OREGON ASH (*Fraxinus latifolia*) TREES WILL BE PLANTED ALONG THE BANKS ABOVE THE OHW. ALL TREES INSTALLED SHALL RECEIVE A 4-INCH HIGH BY 2-FOOT DIAMETER, HAND-PACKED MULCH WATERING BASIN. WILLOW STAKES WILL BE PLANTED ON BANKS OF RESTORED CHANNEL, AS SHOWN ON THE PLANS.

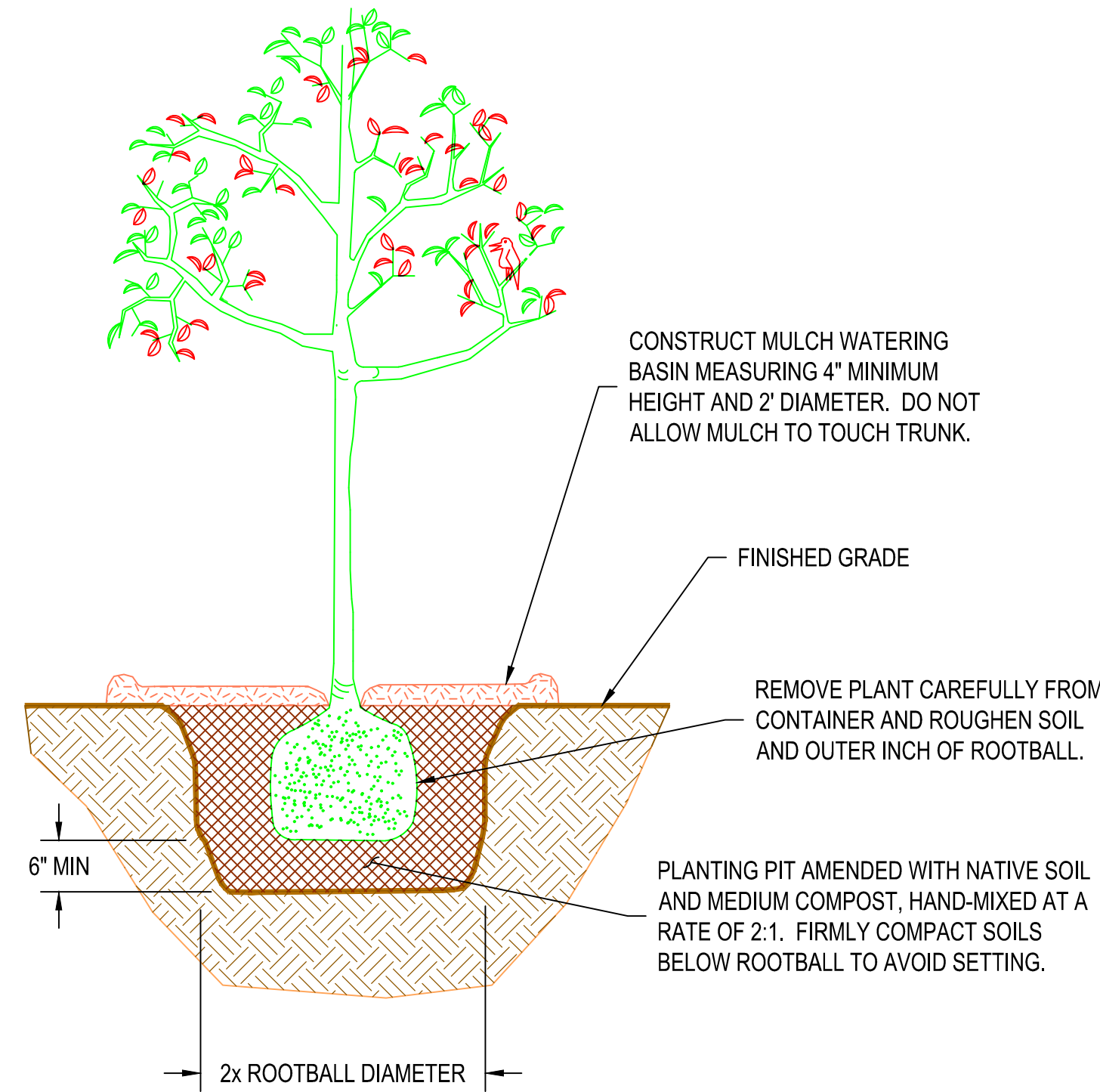
SCOURING RUSH (*Equisetum hyemale*) SHALL BE PLANTED WITHIN THE LOW-LYING AREAS SHOWN ON THE PLANS.

UPLAND AREAS WILL BE PLANTED WITH A MIX OF SNOWBERRY (*Symphoricarpos albus*), SWORD FERN (*Polystichum munitum*), OREGON GRAPE (*Mahonia aquifolium*), AND PACIFIC BLACKBERRY (*Rubus ursinus*), AS SHOWN ON THE PLANS.

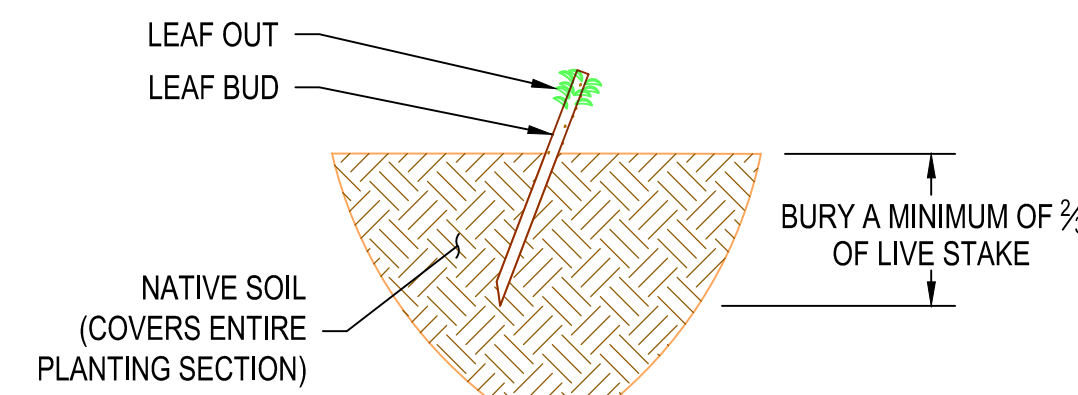
THE UNDERSTORY AND DISTURBED SOIL AREAS WILL BE BROADCAST SEEDING WITH A NATIVE NORTHWEST GRASS SEED MIX. THE SEED MIX WILL BE APPLIED AT A RATE OF 15 POUNDS PER ACRE (1,406,000 SEEDS PER POUND; SPACING OF 161 SEEDS PER SQUARE FOOT) OR THE RECOMMENDATIONS OF THE SEED DISTRIBUTOR. REMOVE NOXIOUS WEEDS PRIOR TO SEEDING. MAINTENANCE OF NOXIOUS WEEDS FOR FIRST THREE YEARS AFTER RESTORATION WILL BE COMPLETED BY THE CITY.
- CLEAN-UP:** THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF REMOVED PLANTS AND PLANT PARTS, CONTAINERS, BURLAP, ETC. ASSOCIATED WITH PLANTING ACTIVITIES. THESE MATERIALS SHALL BE DISPOSED OF OFF-SITE.
- CONSTRUCTION INSPECTION:** UPON COMPLETION OF INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL REQUEST AN INSPECTION FROM THE CITY. INSPECTIONS WILL BE CONDUCTED TO ENSURE INSTALLATION COMPLIES WITH THE APPROVED PLANTING PLAN AND DETAILS. THE CONTRACTOR WILL BE REQUIRED TO CORRECT ANY DERIVATIONS PRIOR TO CITY ACCEPTANCE.

### IRRIGATION:

THE LANDSCAPE CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION FOR THE PROPOSED PLANTING AREA. TEMPORARY IRRIGATION MAY BE SUPPLIED USING A WATER TRUCK, HOSE, OR ABOVEGROUND IRRIGATION SYSTEM. THE CONTRACTOR WILL NEED TO ACCESS WATER VIA THE NEAREST HYDRANT, AND SECURE THE APPROPRIATE HYDRANT PERMIT AND A HYDRANT METER FROM THE CITY FOR THIS PURPOSE. TEMPORARY IRRIGATION SHALL PROVIDE HEAD-TO-HEAD COVERAGE OF THE PROPOSED PLANTING AREA. ALL TREES AND SHRUBS IN THIS ZONE WILL RECEIVE TEMPORARY IRRIGATION DURING THE DRY SEASON AND AS NECESSARY FOR SUCCESSFUL PLANT ESTABLISHMENT. TREES SHALL RECEIVE A MINIMUM OF 2 INCHES OF WATER PER WEEK. THE LANDSCAPE CONTRACTOR SHALL MODIFY THE DURATION AND FREQUENCY OF SUPPLEMENTAL WATERING, AS NEEDED. THE LANDSCAPE CONTRACTOR SHALL REMOVE TEMPORARY IRRIGATION SYSTEM COMPONENTS AND/OR HOSING FOLLOWING PLANT ESTABLISHMENT PERIOD.



**1 DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**2 LIVE STAKE OR POLE PLANTING DETAIL**  
NOT TO SCALE

## LIVE STAKE OR POLE PLANTING INSTRUCTIONS

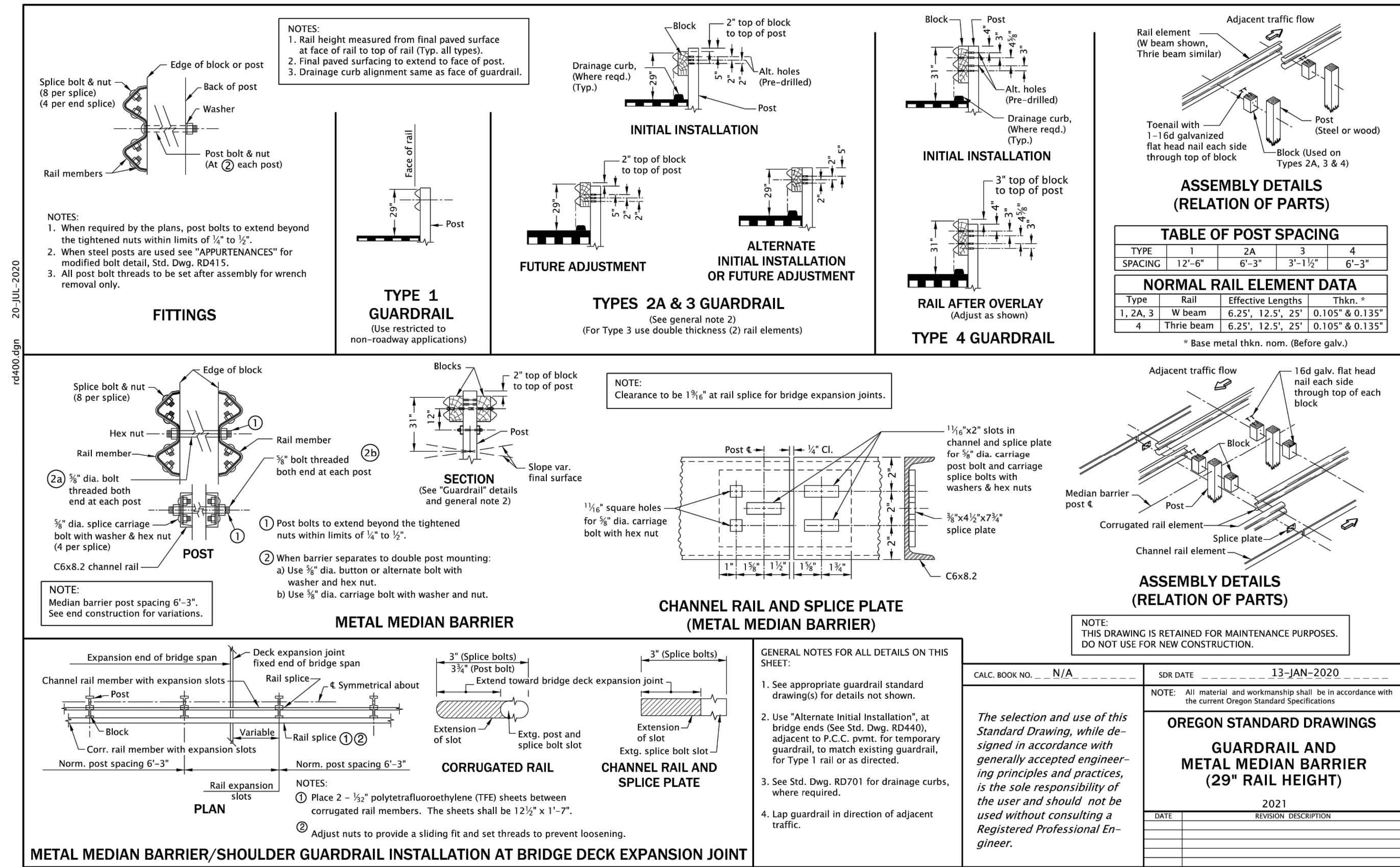
- LIVE STAKES SHALL BE  $\frac{3}{8}$  TO  $1\frac{1}{2}$  INCHES IN DIAMETER OVER THEIR ENTIRE LENGTH AND A MINIMUM OF 3 FEET LONG. LIVE POLES SHALL BE 1-4 INCHES IN DIAMETER OVER THEIR ENTIRE LENGTH AND 3-5 FEET LONG. STAKES SHALL BE PROVIDED WITH THE END TO BE PLANTED ANGLED AS SHOWN IN THE DETAIL.
- LIVE STAKES AND POLES SHALL BE INSTALLED BY HAND. A PILOT HOLE SHALL BE DUG PRIOR TO INSTALLATION (USE SIMILARLY SIZED REBAR, T-BAR, OR HAND AUGER FOR MAKING PILOT HOLES).
- LIVE STAKES ARE HIGHLY PERISHABLE AND MUST BE STORED IN SHADED, COOL, MOIST CONDITIONS PRIOR TO INSTALLATION. STAKES STORED SHALL BE COVERED IN BURLAP AND WETTED DAILY. STORE STAKES IN THIS MANNER FOR NO LONGER THAN TWO DAYS.
- INSTALL STAKES SO THAT A MINIMUM OF  $\frac{2}{3}$  OF THEIR LENGTH IS BURIED IN SOIL. BACKFILL PIT PER DETAILS THIS PAGE AND PACK SOIL AROUND STAKE FOLLOWING INSTALLATION.

PLANTINGS		
TYPE	QUANTITY	SIZE / DENSITY
OREGON ASH ( <i>Fraxinus latifolia</i> )	10	5 GALLON/MIN 12 FT SEPARATION
WILLOW STAKES (VARIOUS SPECIES)	3,340 SQ. FT.	1 PER 6 SQ. FT.
SCOURING RUSH ( <i>Equisetum hyemale</i> )	515 SQ. FT.	1 GAL @ 1 PER 6 SQ. FT.
SNOWBERRY ( <i>Symphoricarpos albus</i> )	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
SWORD FERN ( <i>Polystichum munitum</i> )	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
OREGON GRAPE ( <i>Mahonia aquifolium</i> )	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
PACIFIC BLACKBERRY ( <i>Rubus ursinus</i> )	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
SEED MIX	0.49 ACRES*	15 LBS PER ACRE

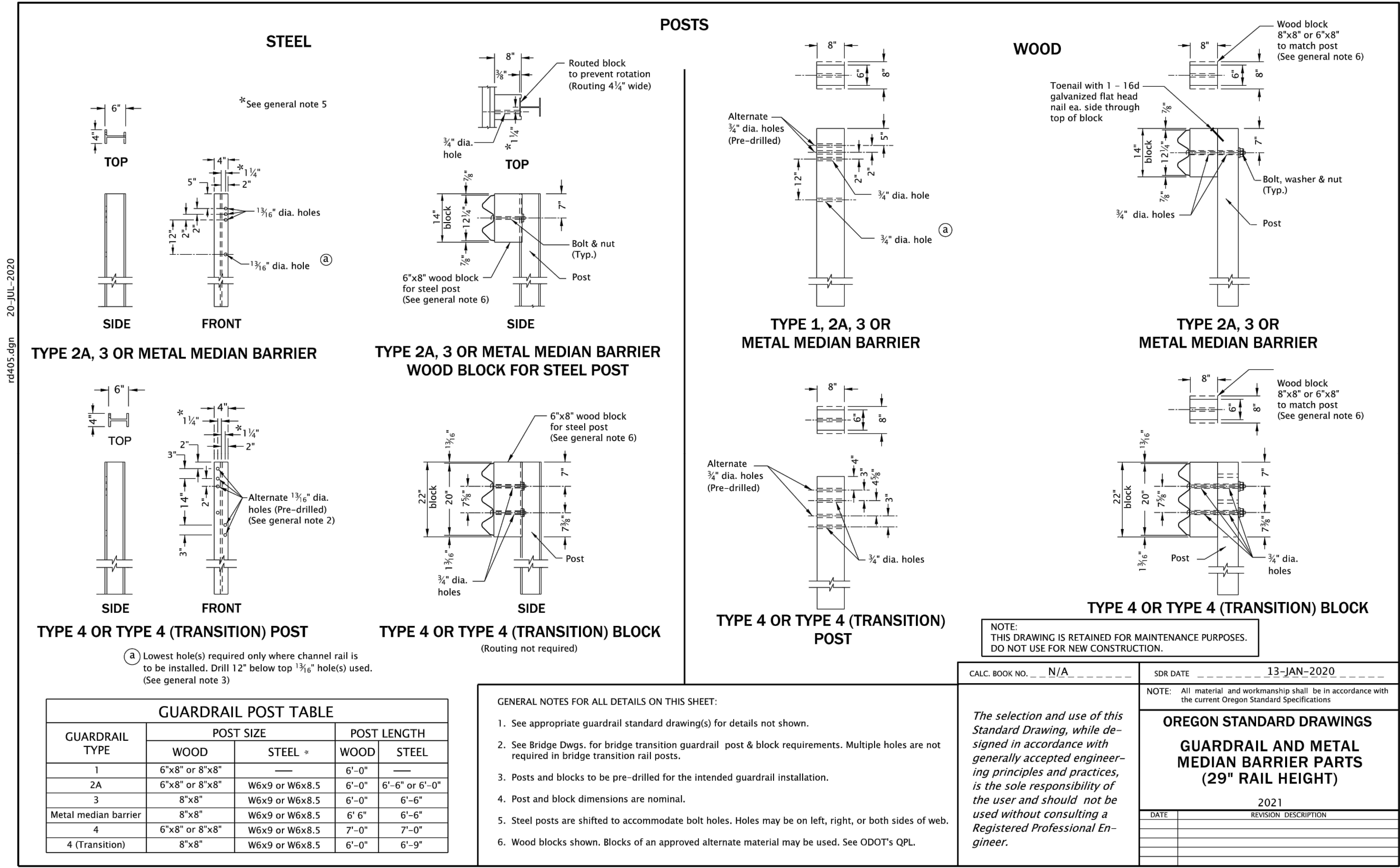
\*AREA QUANTITY DOES NOT INCLUDE STAGING AREAS NOR OTHER DISTURBED AREAS.

NORTHWEST GRASS SEED MIX		
COMMON NAME	SCIENTIFIC NAME	INDICATOR
TUFTED HAIRGRASS	DESCHAMPSIA CESPIGOSA	FACW
SLENDER HAIRGRASS	DESCHAMPSIA ELONGATA	FACW
MEADOW BARLEY	HORDEUM BRACHYANTHERUM	FACW
SPIKE BENTGRASS	AGROSTIS EXERATA	FACW
COMMON RUSH	JUNCOUS EFFUSUS	FACW
NEBRASKA SEDGE	CAREX NEBRASCENSIS	OBL

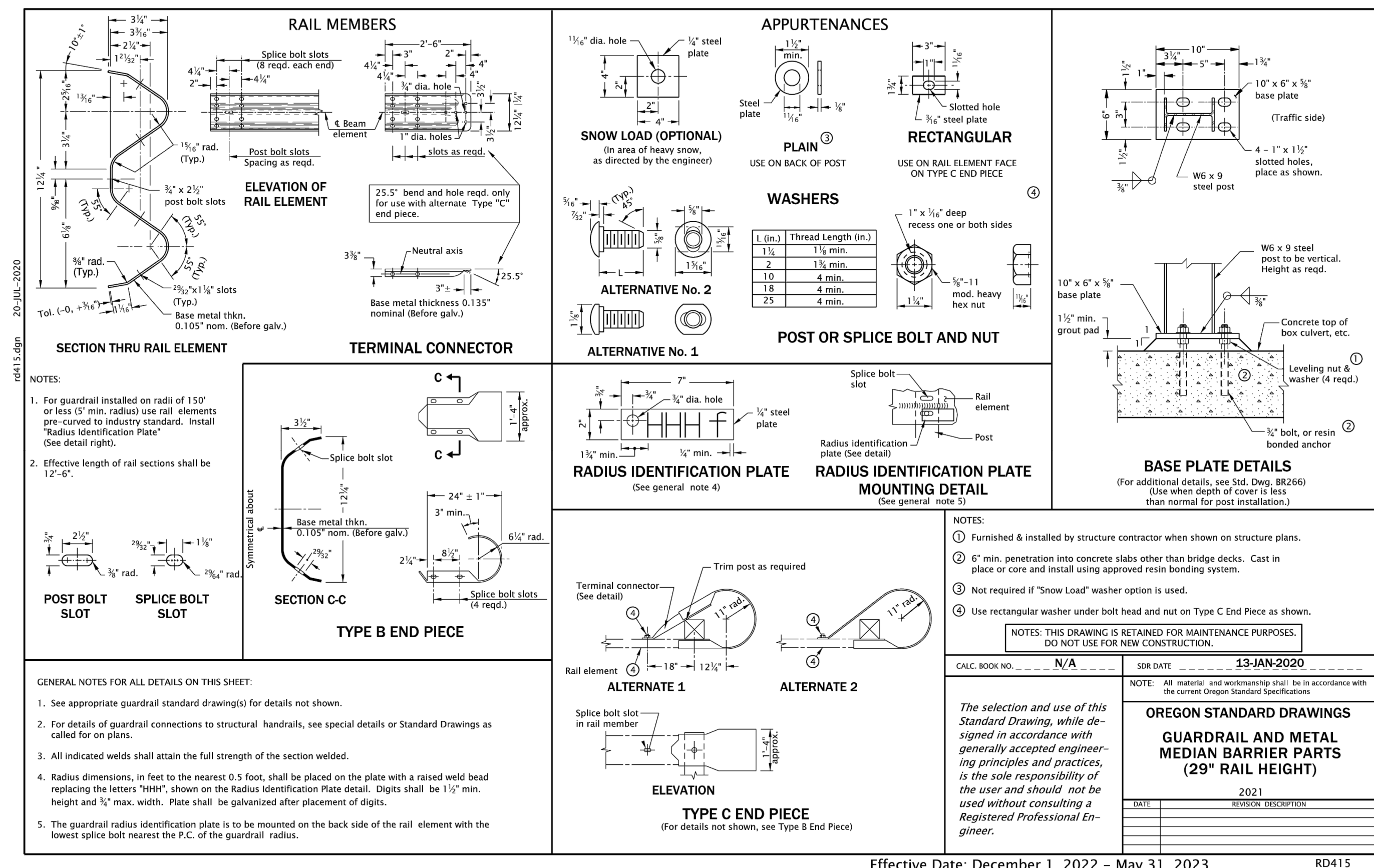
NO.	DATE	DESCRIPTION	BY	REVIEW



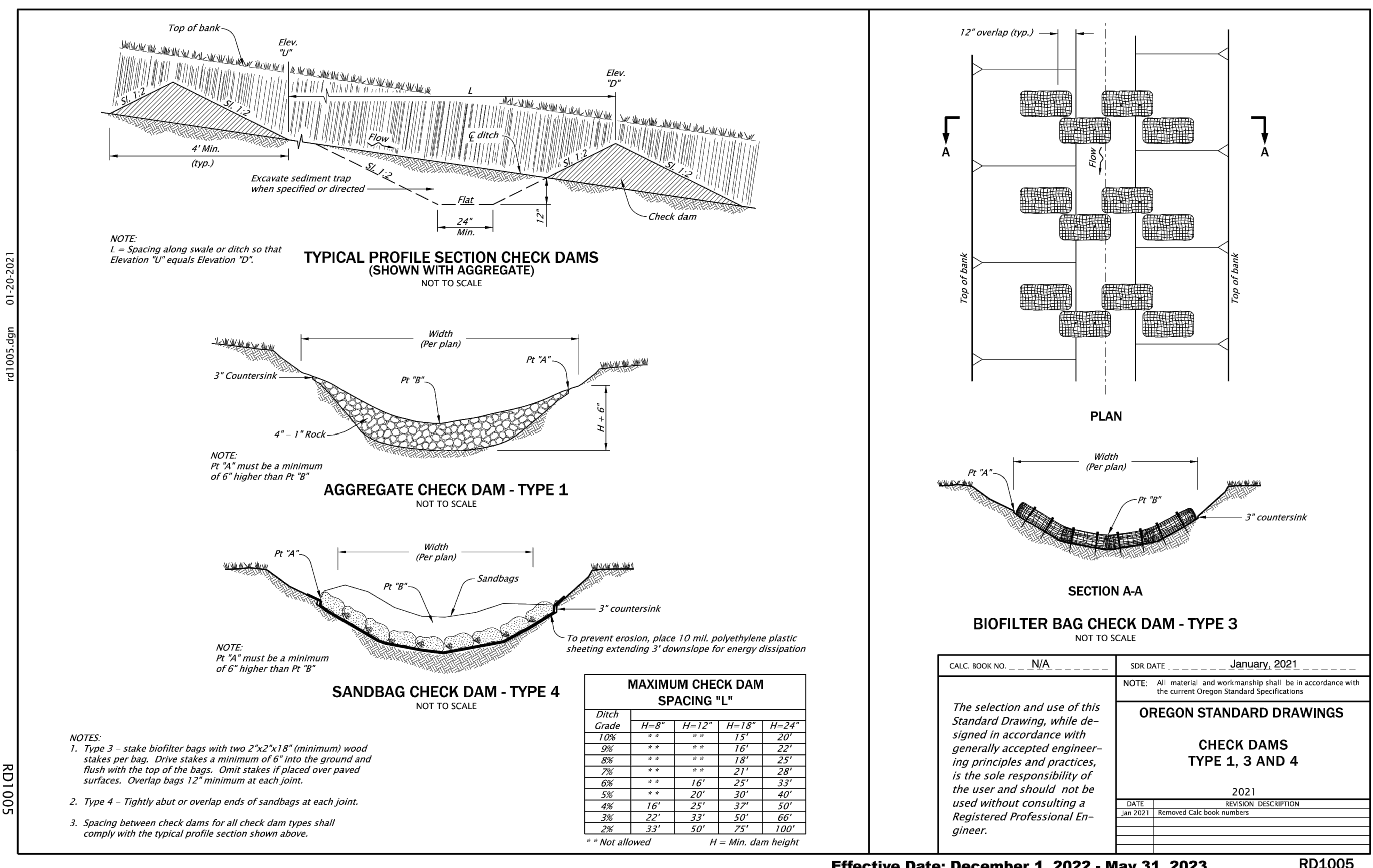
Effective Date: December 1, 2022 – May 31, 2023 RD400



Effective Date: December 1, 2022 – May 31, 2023 RD405



Effective Date: December 1, 2022 – May 31, 2023 RD415



Effective Date: December 1, 2022 – May 31, 2023 RD1005



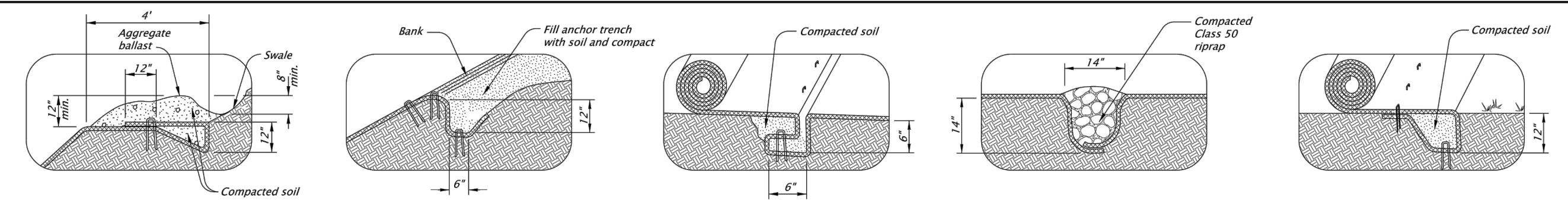
CITY OF CENTRAL POINT  
 ELK CREEK CULVERT REPLACEMENT  
 DETAILS - SHEET 4 OF 5

NO.	DATE	BY	REVISION

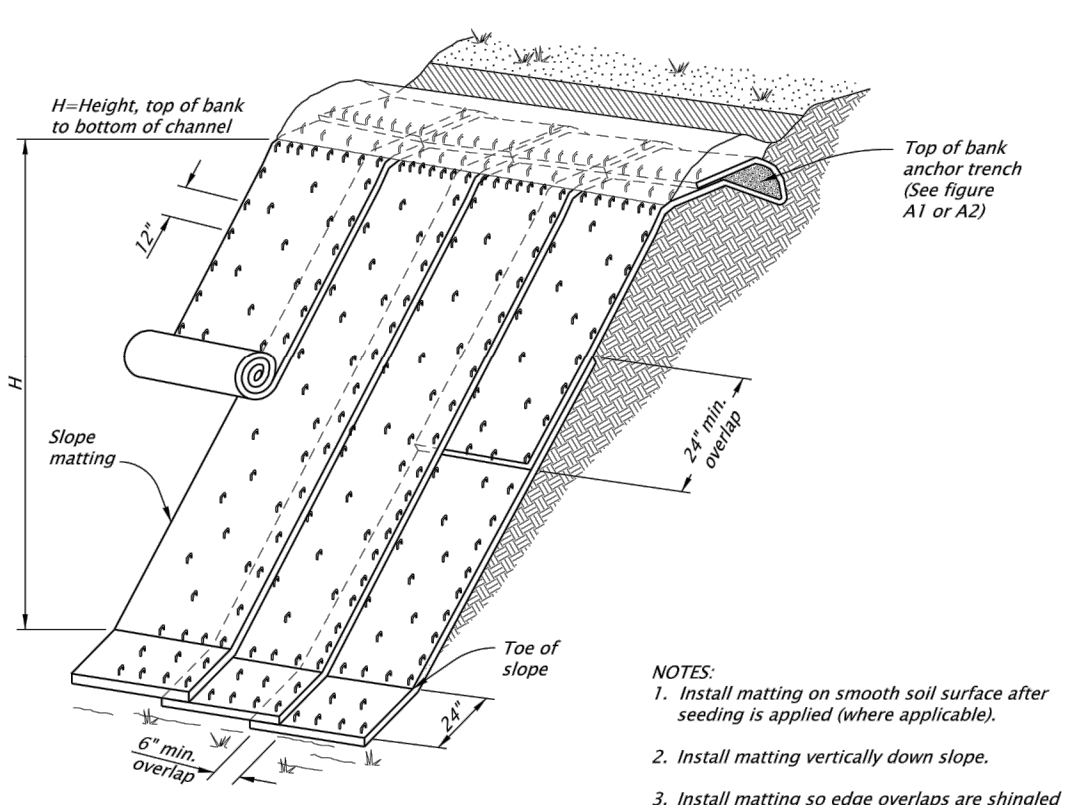
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DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

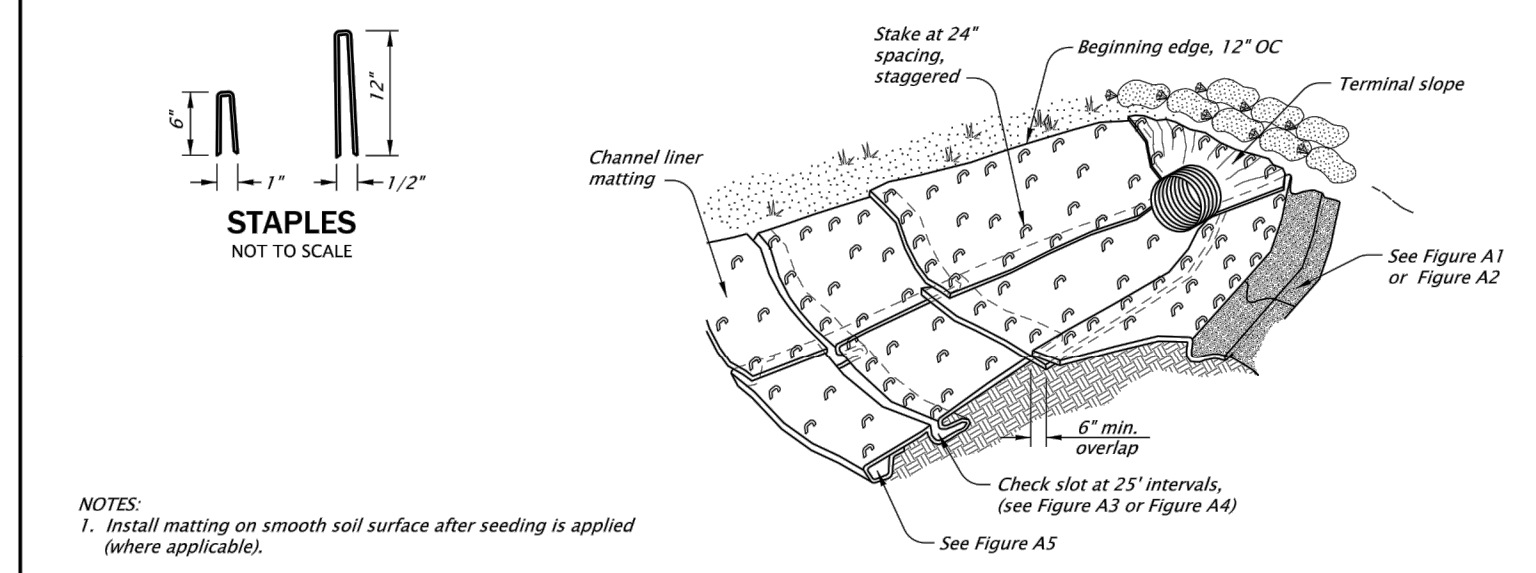
DWG NO.: D04 SHEET NO.: 11 OF 12



**FIGURE A1: TOP OF BANK ANCHOR TRENCH, H>3' AND TERMINAL SLOPE**  
**FIGURE A2: TOP OF BANK ANCHOR TRENCH, H<3'**  
**FIGURE A3: CHANNEL CHECK SLOT**  
**FIGURE A4: CHANNEL CHECK SLOT WITH ROCK BACKFILL**  
**FIGURE A5: INITIAL CHANNEL ANCHOR TRENCH**



**SLOPE MATTING ISOMETRIC VIEW**  
NOT TO SCALE



**CHANNEL MATTING ISOMETRIC VIEW**  
NOT TO SCALE

- NOTES:**
1. Install matting on smooth soil surface after seeding is applied (where applicable).
  2. Install channel liner matting, in the direction of water flow. Anchor upstream end of mat with check slot for culvert outfalls, place mat under pipe 12" minimum upstream from pipe outlet.
  3. Construct check slots across channel bottom at 25' spacing and at the end of each mat (Fig. A3 or A4).
  4. Overlap side channel liner matting edges 6" over the center channel liner matting and fasten edges 12" OC. Continue overlap and stapling pattern for each additional side channel liner mat.
  5. Lap upstream matting end 12" over beginning edge of downstream matting. Fasten 12" OC.
  6. Anchor top edge of side channel matting in trench and fasten 12" OC (Fig. A2).
  7. Fasten matting interior at 24" OC with staggered spacing.
  8. Construct initial anchor trench at downstream end of matting and terminal slope anchor at upstream end.
  9. Matting Types A through E: Furnish fully biodegradable product. Matting with plastic or photodegradable components will not be accepted.

CALC. BOOK NO. N/A	SDR DATE January, 2021
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>SLOPE AND CHANNEL MATTING</b>	
DATE 2021	REVISION DESCRIPTION
Jan 2021	Removed Calc book numbers

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

Effective Date: December 1, 2022 - May 31, 2023 RD1055

rd1055.dgn 01-20-2023

RD1055

**CITY OF CENTRAL POINT  
ELK CREEK CULVERT REPLACEMENT**

**DETAILS - SHEET 5 OF 5**



NO.	DATE	DESCRIPTION	BY	REVIEW