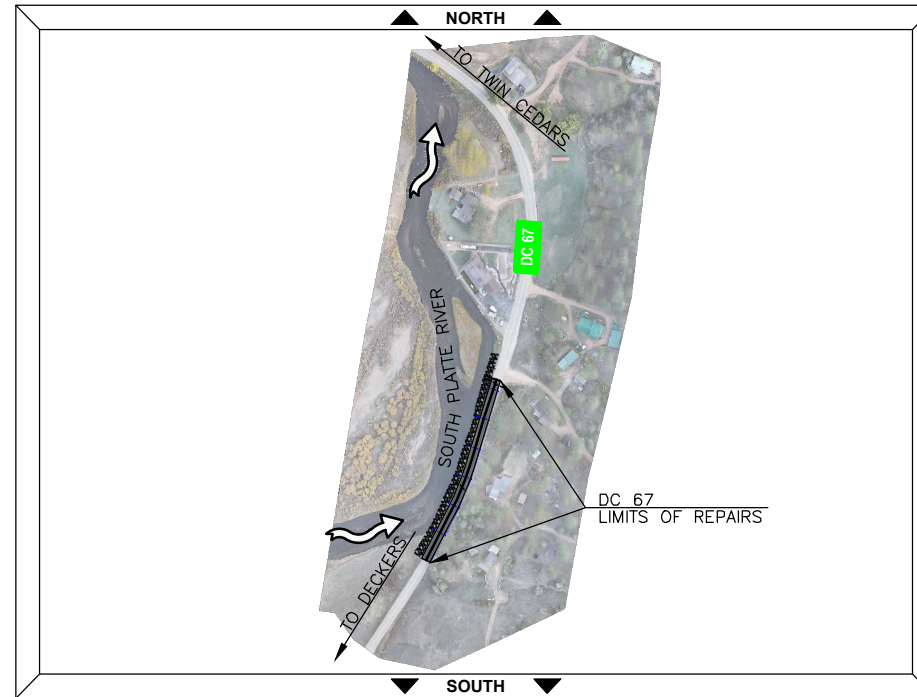




SPECIAL PROJECTS
 PLAN OF PROPOSED
 DC 67 ROADWAY REPAIRS
 DOUGLAS COUNTY, COLORADO

SCALE OF ORIGINAL DRAWINGS
 ON PLAN 1" = 40'

DOUGLAS COUNTY	
ZEKE LYNCH, P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS ENGINEERING	DATE
SEAN OWENS, P.E., SPECIAL PROJECTS MANAGER	DATE
ZAK HUMBLER, P.E., SPECIAL PROJECTS ENGINEER	DATE



VICINITY MAP
 NTS

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Rev	Date	Description

DOUGLAS COUNTY
 COLORADO
 Engineering Division
 100 Third Street
 Castle Rock, Colorado 80104
 (303) 660-7490

PLATTE CANYON REPAIR
DC 67
 01 - JANUARY 2026

Design	CDT
Drawn	SMT
Checked	CDT
Date Created	1.9.26
Date Modified	1.9.26
Scale	N/A
Job No.	

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DOUGLAS COUNTY STANDARD NOTES

1. THE DOUGLAS COUNTY ENGINEERING DIRECTOR SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL CONFORMANCE WITH THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS AND THE DOUGLAS COUNTY SUBDIVISION RESOLUTION OR ACCEPTED VARIANCES TO THOSE REGULATIONS. THE DOUGLAS COUNTY ENGINEERING DIRECTOR, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS DOCUMENT.
2. ALL CONSTRUCTION SHALL CONFORM TO DOUGLAS COUNTY STANDARDS. ANY CONSTRUCTION NOT SPECIFICALLY ADDRESSED BY THESE PLANS AND SPECIFICATIONS WILL BE BUILT IN COMPLIANCE WITH THE LATEST EDITION OF THE MOST STRINGENT OF THE FOLLOWING:
 - THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS
 - THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - THE COLORADO DEPARTMENT OF TRANSPORTATION M STANDARDS
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOUGLAS COUNTY ENGINEERING DIVISION AS APPLICABLE. THE COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE DOUGLAS COUNTY ENGINEERING INSPECTION DIVISION, 303-660-7487, A MINIMUM OF 24-HOURS AND A MAXIMUM OF 72-HOURS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY DOUGLAS COUNTY ENGINEERING INSPECTION WHEN WORKING OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ON ANY FACILITY THAT WILL BE CONVEYED TO THE COUNTY, URBAN DRAINAGE & FLOOD CONTROL DISTRICT, OR OTHER SPECIAL DISTRICT FOR MAINTENANCE (STORM SEWER, ENERGY DISSIPATORS, DETENTION OUTLET STRUCTURES, OR OTHER DRAINAGE INFRASTRUCTURES). FAILURE TO NOTIFY THE ENGINEERING INSPECTION DIVISION TO ALLOW THEM TO INSPECT THE CONSTRUCTION MAY RESULT IN NON-ACCEPTANCE OF THE FACILITY/INFRASTRUCTURE BY THE COUNTY AND/OR URBAN DRAINAGE.
5. CONSTRUCTION WILL NOT BEGIN UNTIL ALL APPLICABLE PERMITS HAVE BEEN ISSUED. IF A DOUGLAS COUNTY ENGINEERING INSPECTOR IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE INSPECTOR'S ABSENCE. HOWEVER, DOUGLAS COUNTY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
6. THE LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT: COLORADO 811, AT 1-800-922-1987 (WWW.COLORADO811.ORG).
7. THE CONTRACTOR SHALL HAVE ONE (1) COPY OF THE PLANS SIGNED BY THE DOUGLAS COUNTY ENGINEERING DIRECTOR, ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS, AS AMENDED, AND ALL APPLICABLE PERMITS AT THE JOB SITE AT ALL TIMES.
8. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW: NONE FOR THIS PROJECT.
9. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO DOUGLAS COUNTY FOR ACCEPTANCE WITH THE RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT APPLICATION. A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN ACCEPTED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
10. THE CONSTRUCTION PLANS SHALL BE CONSIDERED VALID FOR THREE (3) YEARS FROM THE DATE OF COUNTY ACCEPTANCE, AFTER WHICH TIME THESE PLANS SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY DOUGLAS COUNTY.
11. DOUGLAS COUNTY STANDARD DETAILS SHALL NOT BE MODIFIED. ANY NON-STANDARD DETAILS WILL BE CLEARLY IDENTIFIED AS SUCH.
12. PAVING, INCLUDING CONSTRUCTION OF CURB AND GUTTER (WHEN USED), SHALL NOT START UNTIL A PAVEMENT DESIGN REPORT AND SUBGRADE COMPACTION TESTS ARE ACCEPTED BY THE ENGINEERING INSPECTION DIVISION FOR ALL PUBLIC AND PRIVATE ROADS.
13. STANDARD DOUGLAS COUNTY HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT MID-BLOCK LOCATIONS OPPOSITE OF ONE OF THE CURB RETURNS OF ALL "T" INTERSECTIONS AS IDENTIFIED ON THESE PLANS.
14. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
15. ALL ELEVATIONS ARE ON UNITED STATES COAST AND GEODETIC SURVEY (USC&GS) (NAVD-88) DATUM WITH DATE. THE RANGE POINT OR MONUMENTS SHALL BE SHOWN ON CONSTRUCTION DRAWINGS.
16. ALL STORM SEWER IMPROVEMENTS (PUBLIC AND PRIVATE) INCLUDING, BUT NOT LIMITED TO, INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES, RIPRAP, DETENTION BASINS, FOREBAYS, MICROPOOLS, AND WATER QUALITY FACILITIES REQUIRE PERMITTING AND INSPECTIONS. PLEASE CONTACT THE DOUGLAS COUNTY ENGINEERING INSPECTIONS DIVISION AT 303- 660-7487 FOR PERMITTING REQUIREMENTS AND INSPECTIONS SCHEDULING.
17. TWO (2) MANHOLE ACCESS POINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH.
18. EPOXY COATED REBAR IS REQUIRED ON ALL DRAINAGE STRUCTURES.
19. DOUGLAS COUNTY REQUIRES CLASS D CONCRETE FOR ALL DRAINAGE STRUCTURES.
20. ALL RCP STORM SEWERS MUST USE ASTM C443 WATERTIGHT GASKETS PER THE CURRENT DOUGLAS COUNTY AND URBAN DRAINAGE DESIGN CRITERIA.
21. ALL RCP SHALL BE CLASS III STORM SEWER PIPE UNLESS OTHERWISE SPECIFIED.
22. JOINT RESTRAINTS ARE REQUIRED FOR A MINIMUM OF THE LAST TWO PIPE JOINTS AND FLARED END SECTION OF AN RCP OUTFALL.
23. PRECAST INLETS AND MANHOLE BASES ARE NOT ALLOWED.
24. TOE WALLS ARE REQUIRED ON FLARED END SECTIONS AT THE OUTLET END OF CULVERTS AND STORM SEWER OUTFALLS.
25. FILTER FABRIC IS REQUIRED UNDER ALL RIPRAP PADS.
26. THE PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF COLORADO, SIGNING THESE PLANS IS RESPONSIBLE FOR ENSURING THAT THE DETAILS INCLUDED ARE COMPATIBLE WITH THE STANDARD DOUGLAS COUNTY DETAILS CONTAINED IN THE LATEST VERSIONS OF THE CRITERIA MANUALS. THIS INCLUDES, BUT IS NOT LIMITED TO: •DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS •DOUGLAS COUNTY STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA •DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA •CDOT M & S STANDARDS •MUTCD •URBAN STORM DRAINAGE CRITERIA MANUAL VOLUMES 1,2 & 3
27. A TEMPORARY CONSTRUCTION ACCESS PERMIT FROM DOUGLAS COUNTY MAY BE REQUIRED FOR ANY PROJECT.

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL PLANS ARE REQUIRED TO BE SUBMITTED TO THE DOUGLAS COUNTY PROJECT MANAGER FOR APPROVAL PRIOR TO THE SUBMISSION OF THE DOUGLAS COUNTY CONSTRUCTION RIGHT-OF-WAY PERMIT.
2. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE SET UP NO SOONER THAN 8:30 AM ON THE FIRST DAY OF WORK BUT CAN REMAIN IN PLACE ONCE IMPLEMENTED UNTIL WORK IS COMPLETE.
3. PORTABLE VARIABLE MESSAGE SIGNS (VMS) ARE REQUIRED AND SHALL BE SET UP THREE BUSINESS DAYS IN ADVANCE OF THE FIRST DAY OF WORK.
4. A SINGLE LANE CLOSURE IS ALLOWED.
5. ALL INCIDENTAL ITEMS REQUIRED FOR TRAFFIC CONTROL SHALL BE INCLUDED IN PAY ITEM 630 TRAFFIC CONTROL (LS).

GENERAL NOTES:

1. ALL EXISTING TOPOGRAPHY AND CONTOURS SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING TOPOGRAPHY AND CONTOURS PRIOR TO CONSTRUCTION. IF DISCREPANCIES ARE ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. EXISTING UTILITIES ARE UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES WITHIN THE PROJECT LIMITS AND SHALL PROTECT ALL UTILITIES IN PLACE THROUGHOUT CONSTRUCTION.
3. TEMPORARY DIVERSION SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO DOUGLAS COUNTY FOR REVIEW TWO WEEKS PRIOR TO CONSTRUCTION FOR APPROVAL.
4. THE CONTRACTOR SHOULD BE AWARE THE WORKZONE IS LOCATED WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD (100-YR) INCLUDING FLOODWAY AREAS IN ZONE AE FOR THE SOUTH PLATTE RIVER ACCORDING TO FIRM 08035C0233F, EFFECTIVE SEPTEMBER 30, 2005. 100-YEAR BASE FLOOD ELEVATIONS VARY FROM 6282' TO 6284' (NAVD 88) IN THE PROJECT AREA.
5. TEMPORARY EROSION CONTROL SHALL BE REQUIRED ACCORDING TO DOUGLAS COUNTY GRADING, EROSION, AND SEDIMENT CONTROL (GESC) STANDARD NOTES AND DETAILS. ADDITIONAL GESC ITEMS MAY BE REQUIRED AT THE DIRECTION OF THE PROJECT ENGINEER.

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	QTY.
202	CLEAN CULVERT	EA	1
202	REMOVAL OF PIPE	EA	1
203	MUCK EXCAVATION	CY	110
206	STRUCTURE BACKFILL (SPECIAL)	CY	507
206	FILTER MATERIAL (CLASS A)	CY	1079
208	SEDIMENT CONTROL LOG (12 INCH)	LF	500
208	VEHICLE TRACKING CONTROL (PORTABLE)	EA	2
208	CONCRETE WASHOUT STRUCTURE (PORTABLE)	EA	2
208	TEMPORARY DIVERSION	LS	1
304	AGGREGATE BASE COURSE (CLASS 6)	CY	282
403	HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)	TON	128
403	HOT MIX ASPHALT (GRADING SX) (75) (PG 64-22)	TON	192
411	EMULSIFIED ASPHALT (SLOW SETTING)	GAL	233
420	GEOTEXTILE (DRAINAGE) (CLASS 3)	SY	3275
506	SOIL RIPRAP (24 INCH) (SPECIAL)	CY	1272
605	6 INCH PERFORATED PIPE UNDERDRAIN	LF	642
607	CONSTRUCTION FENCE	LF	500
626	MOBILIZATION	LS	1
630	TRAFFIC CONTROL	LS	1

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COLORADO
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100 Third Street
Castle Rock, Colorado 80104
(303) 660-7490

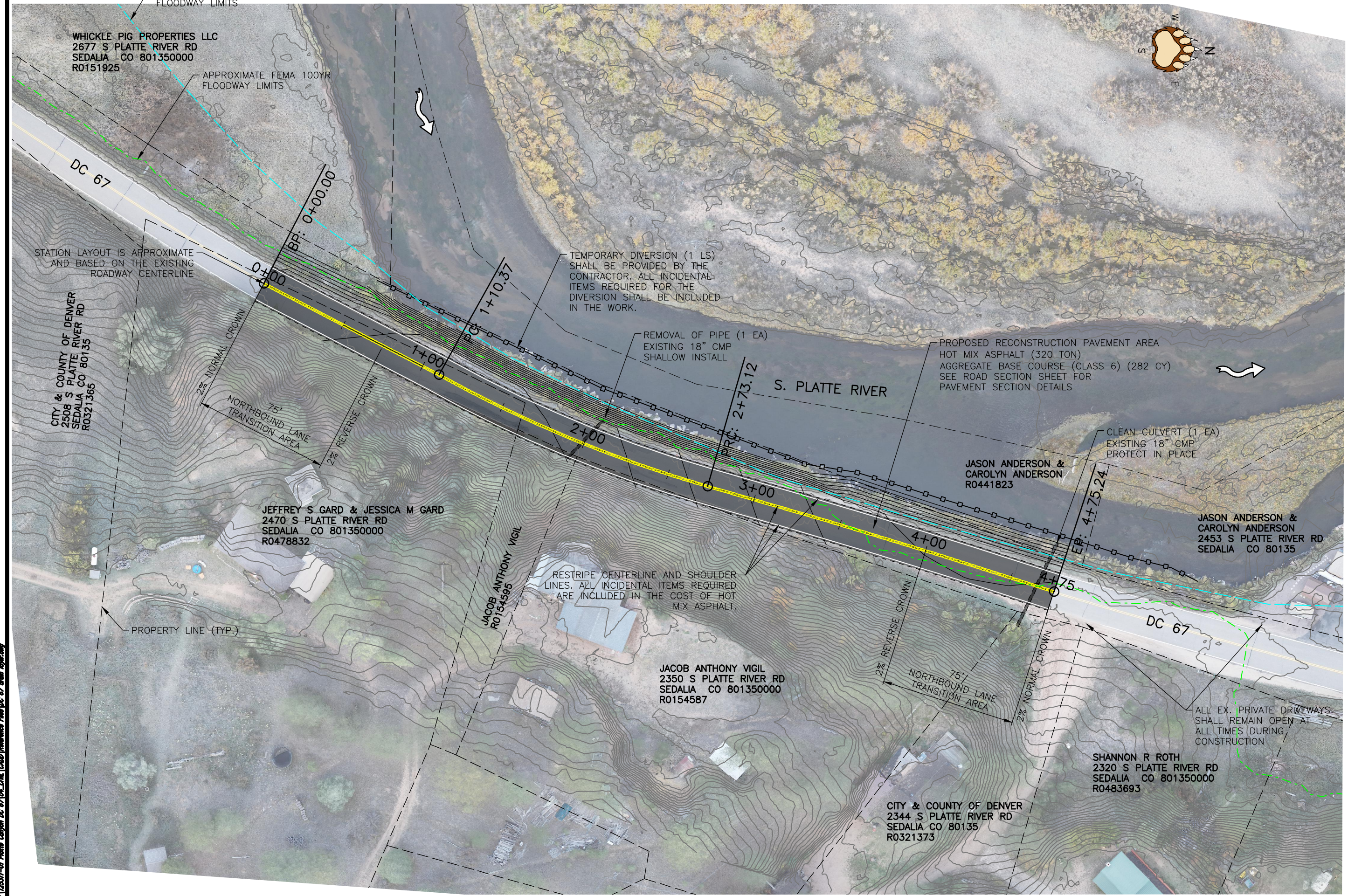
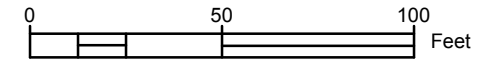
PLATTE CANYON REPAIR
DC 67

01 - JANUARY 2026

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Checked	CDT
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PAVING PLAN



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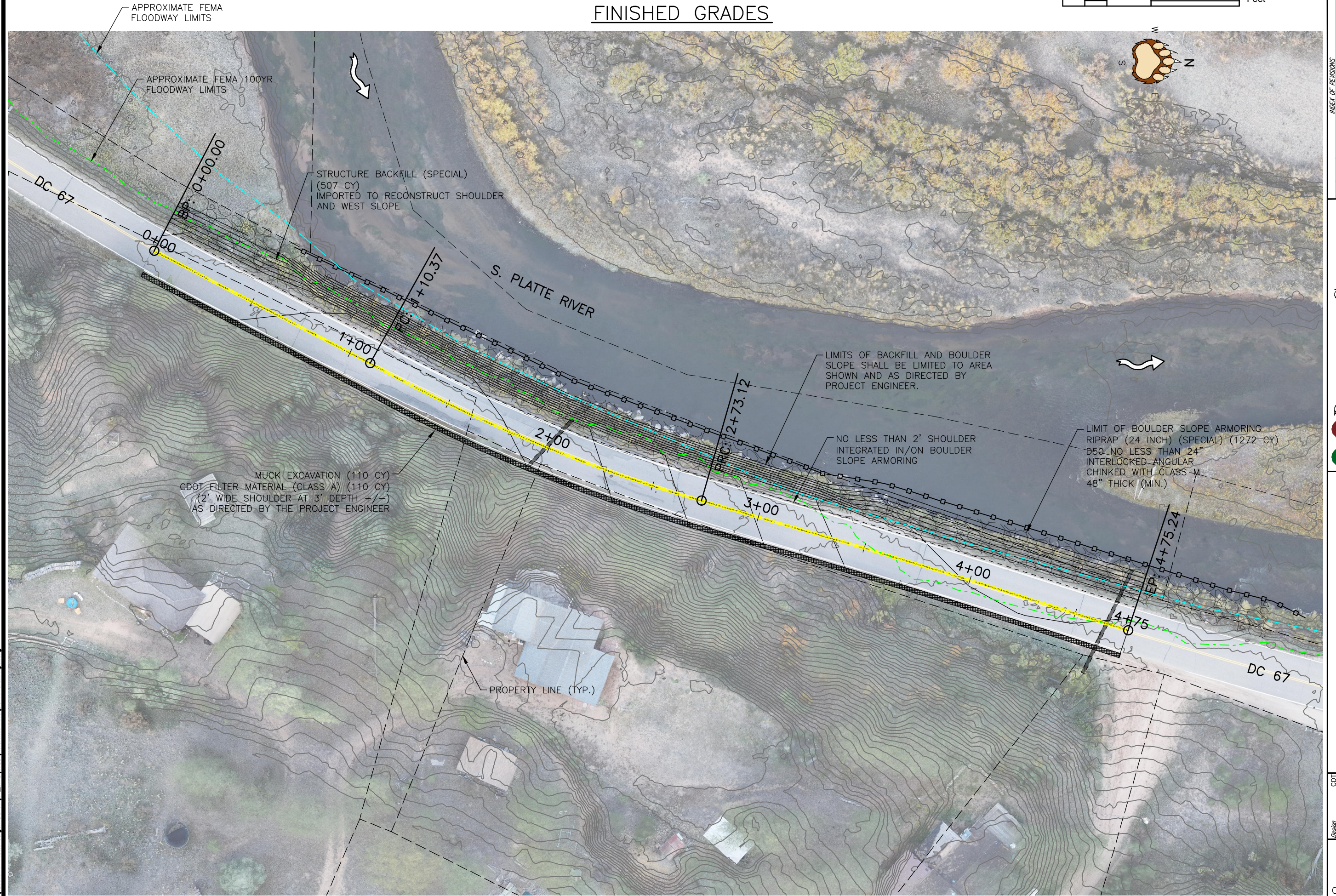
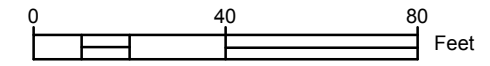
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Scale	N/A
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FINISHED GRADES



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COLORADO
 Engineering Division
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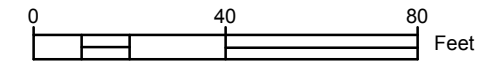
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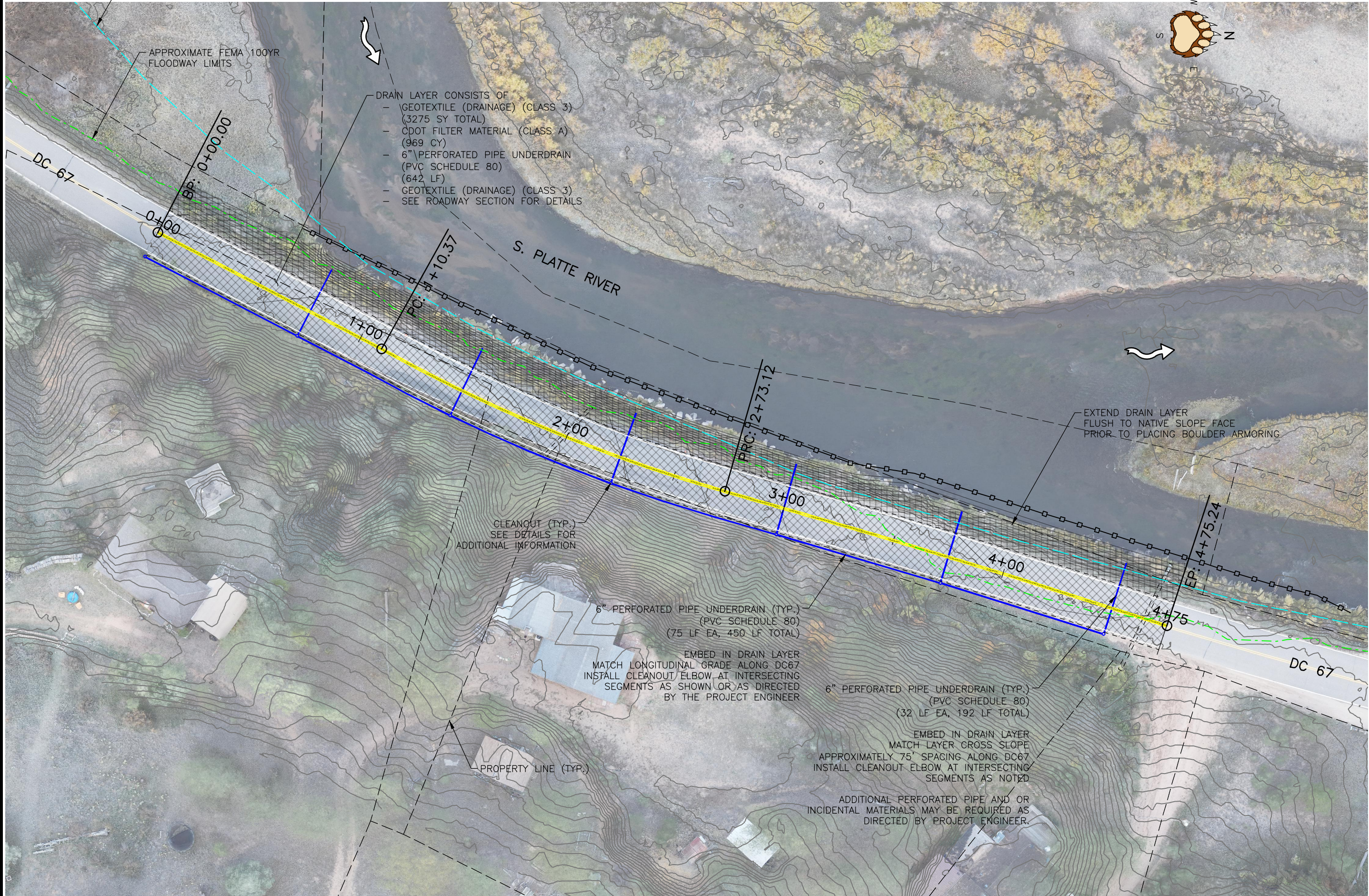
DRAINAGE PLAN



APPROXIMATE FEMA FLOODWAY LIMITS

APPROXIMATE FEMA 100YR FLOODWAY LIMITS

- DRAIN LAYER CONSISTS OF
- GEOTEXTILE (DRAINAGE) (CLASS 3) (3275 SY TOTAL)
 - CDOT FILTER MATERIAL (CLASS A) (969 CY)
 - 6" PERFORATED PIPE UNDERDRAIN (PVC SCHEDULE 80) (642 LF)
 - GEOTEXTILE (DRAINAGE) (CLASS 3)
 - SEE ROADWAY SECTION FOR DETAILS



S. PLATTE RIVER

DC 67

DC 67

CLEANOUT (TYP.)
SEE DETAILS FOR
ADDITIONAL INFORMATION

6" PERFORATED PIPE UNDERDRAIN (TYP.)
(PVC SCHEDULE 80)
(75 LF EA, 450 LF TOTAL)

EMBED IN DRAIN LAYER
MATCH LONGITUDINAL GRADE ALONG DC67
INSTALL CLEANOUT/ELBOW AT INTERSECTING
SEGMENTS AS SHOWN OR AS DIRECTED
BY THE PROJECT ENGINEER

6" PERFORATED PIPE UNDERDRAIN (TYP.)
(PVC SCHEDULE 80)
(32 LF EA, 192 LF TOTAL)

EMBED IN DRAIN LAYER
MATCH LAYER CROSS SLOPE
APPROXIMATELY 75' SPACING ALONG DC67
INSTALL CLEANOUT ELBOW AT INTERSECTING
SEGMENTS AS NOTED

ADDITIONAL PERFORATED PIPE AND OR
INCIDENTAL MATERIALS MAY BE REQUIRED AS
DIRECTED BY PROJECT ENGINEER.

EXTEND DRAIN LAYER
FLUSH TO NATIVE SLOPE FACE
PRIOR TO PLACING BOULDER ARMORING

PROPERTY LINE (TYP.)

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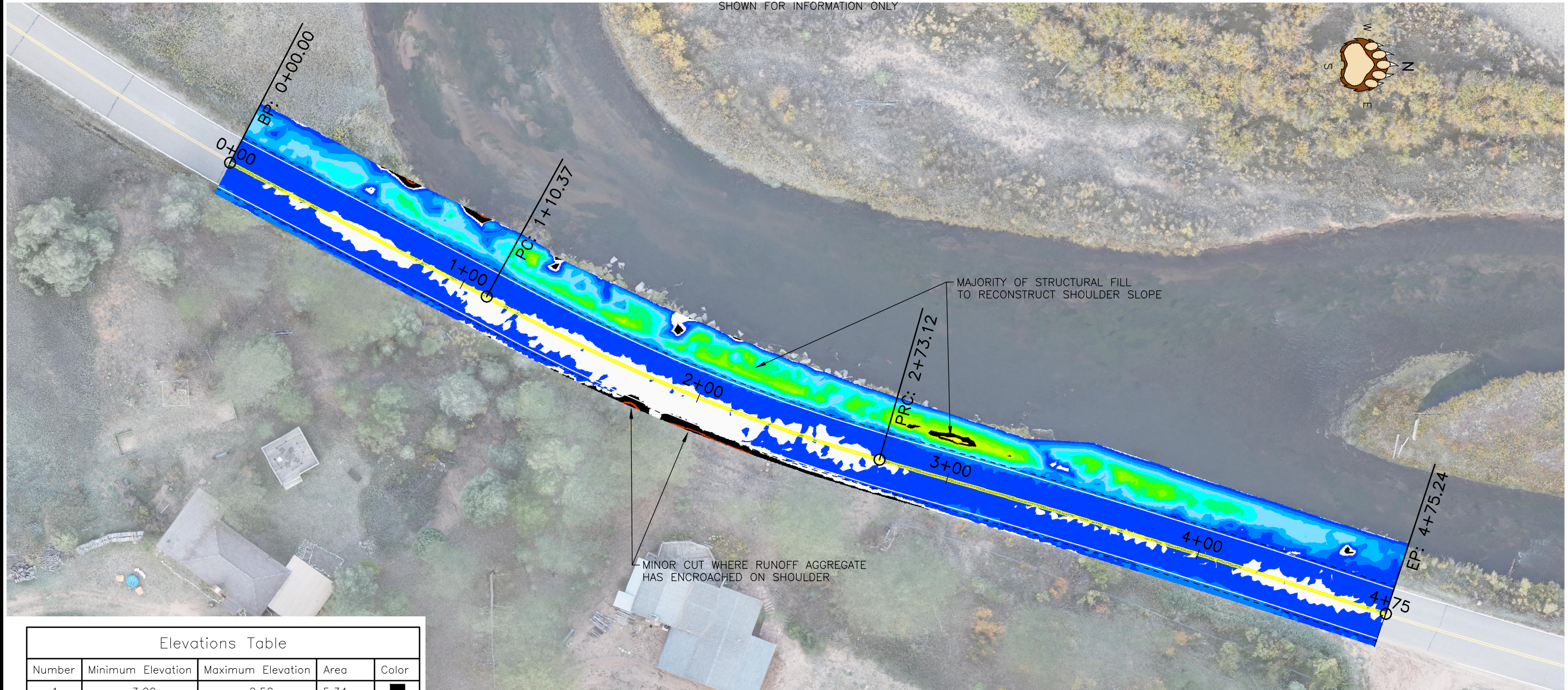
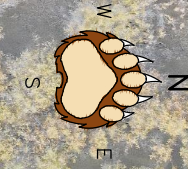
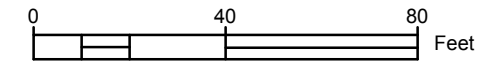
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EARTHWORK EFFORT ILLUSTRATION

SHOWN FOR INFORMATION ONLY



Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-3.00	-2.50	5.34	Black
2	-2.50	-2.00	22.96	Red
3	-2.00	-1.50	39.45	Black
4	-1.50	-1.00	61.59	Black
5	-1.00	-0.50	149.59	Black
6	-0.50	0.00	2902.33	White
7	0.00	0.50	8299.18	Blue
8	0.50	1.00	1904.77	Blue
9	1.00	1.50	1308.03	Cyan
10	1.50	2.00	1236.86	Cyan
11	2.00	2.50	1028.54	Cyan
12	2.50	3.00	816.89	Green
13	3.00	3.50	455.09	Green
14	3.50	4.00	212.39	Light Green
15	4.00	4.50	107.23	Light Green
16	4.50	5.00	40.05	Black
17	5.00	5.50	7.87	Yellow

NOTE: ELEVATION INFORMATION SHOWN FOR INFORMATION ONLY.

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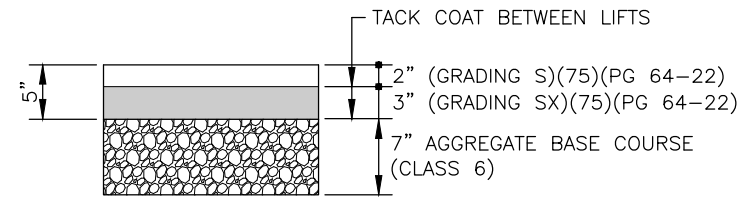
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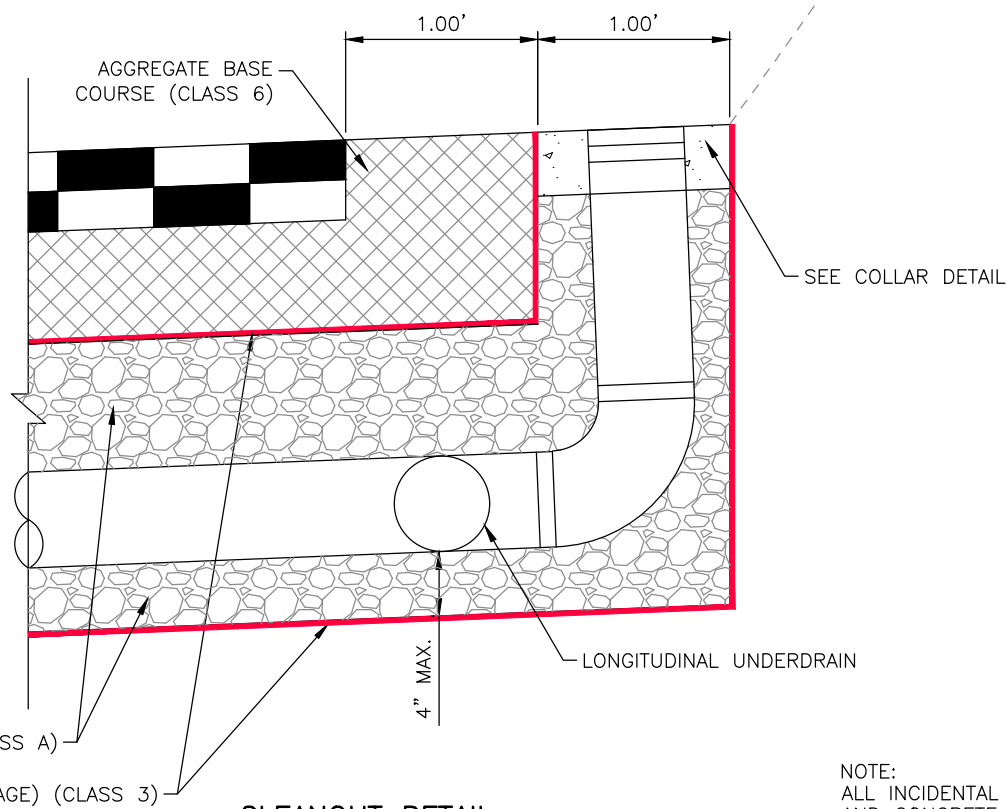
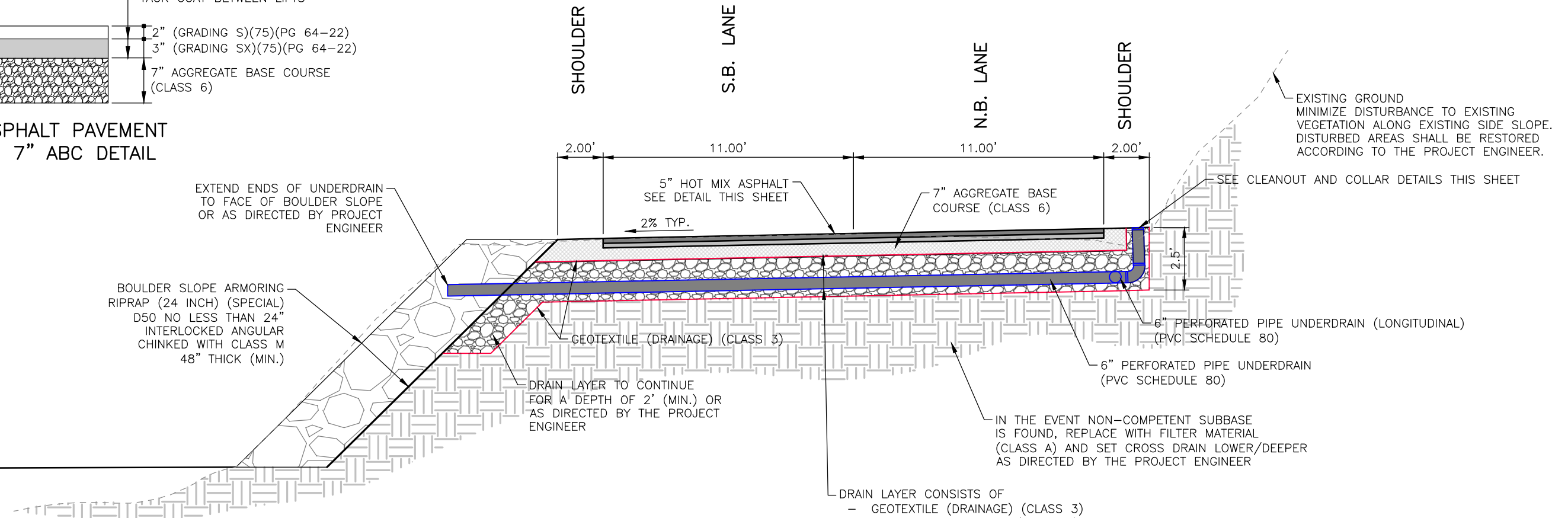
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ROAD SECTION DETAIL

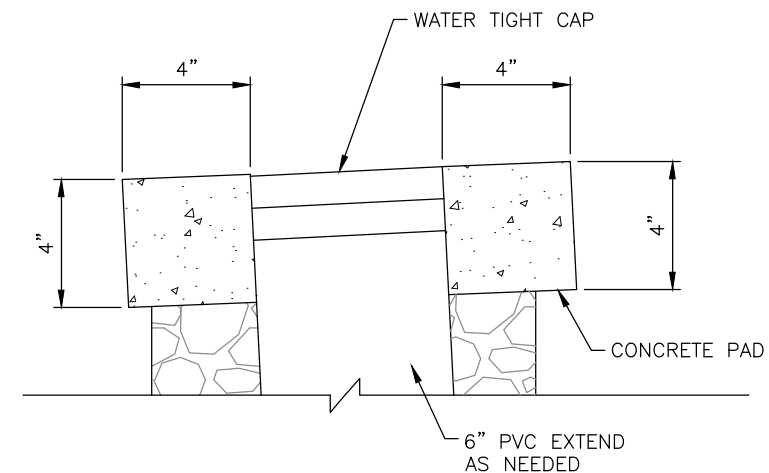
N.T.S.



5" ASPHALT PAVEMENT WITH 7" ABC DETAIL



CLEANOUT DETAIL N.T.S.



COLLAR DETAIL N.T.S.

NOTE:
ALL INCIDENTAL ITEMS REQUIRED FOR CLEANOUT AND CONCRETE COLLAR SHALL BE INCLUDED IN THE COST OF 6" PERFORATED PIPE UNDERDRAIN.

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