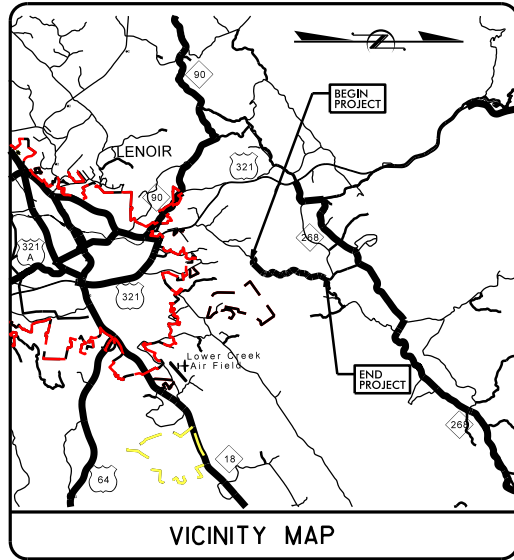


PROJECT: IIC.014050



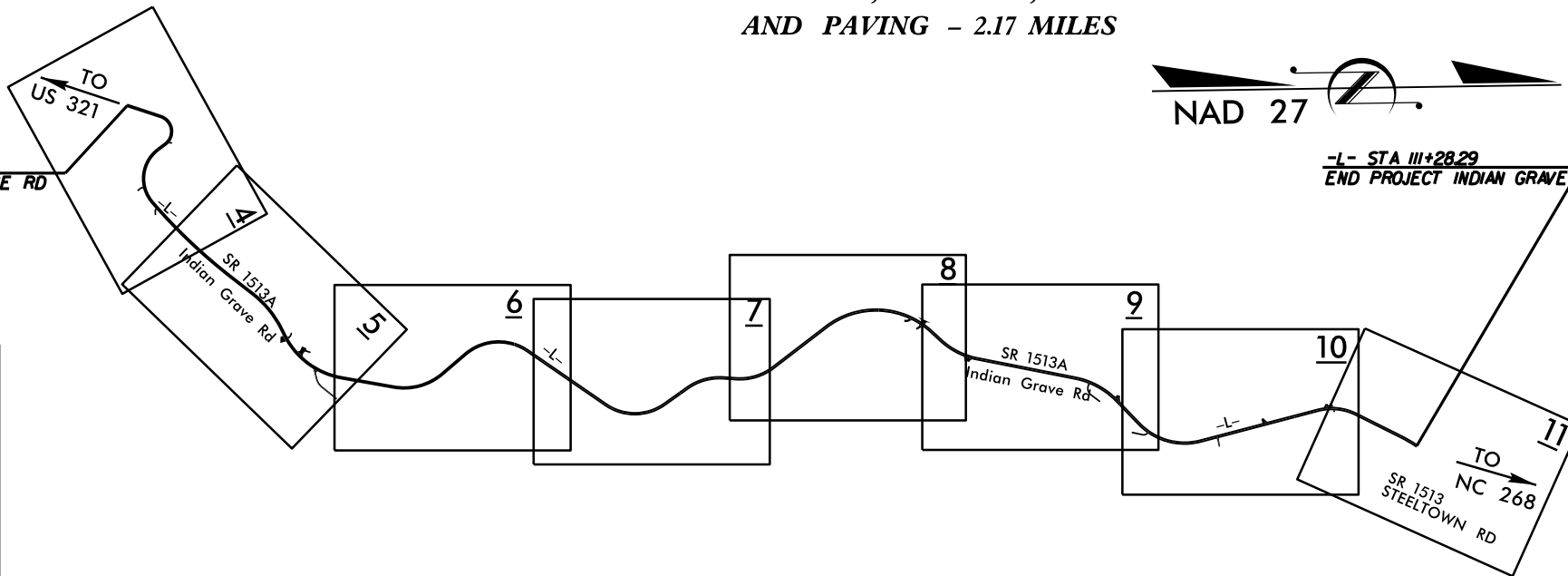
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

CALDWELL COUNTY

LOCATION: SR 1513A INDIAN GRAVE RD FROM
 EP TO SR 1514 - 2.3 MILES

STA 10+00 TO 69+27, AND 76+29 TO E.O.P. III+28.29

TYPE OF WORK: GRADING, DRAINAGE, BASE
 AND PAVING - 2.17 MILES



Porous Baffle Spacing
 *Baffles in Silt Basins at drainage
 turnouts and all other temporary
 rock sediment dams—Type B:
 -If basin length=10' or less;1 baffle
 -If basin length=11' to 20';2 baffles
 -If basin length=20' or more;3 baffles
 equally spaced in basin

NOTE:
 PERIMETER EROSION CONTROL MEASURES SHALL BE
 INSTALLED DURING CLEARING AND GRUBBING PHASE.

Level III Cert # 3474

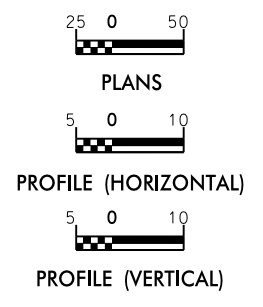
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	IIC.014050	EC-1	20
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	---Z---Z---
1622.01	Temporary Berms and Slope Drains	---
1630.02	Silt Basin Type B	---T---
1633.01	Temporary Rock Silt Check Type-A	---X---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	---X---(PAM)
1633.02	Temporary Rock Silt Check Type-B	---T---
	Wattle/Coir Fiber Wattle	---(C)---
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	---(C)---(PAM)
1634.01	Temporary Rock Sediment Dam Type-A	---(A)---
1634.02	Temporary Rock Sediment Dam Type-B	---(B)---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	---(A)---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	---(B)---
1630.04	Stilling Basin	---(S)---
1630.06	Special Stilling Basin	---(S)---
	Rock Inlet Sediment Trap:	
1632.01	Type A	---(A)---
1632.02	Type B	---(B)---
1632.03	Type C	---(C)---
	Skimmer Basin	---(SK)---
	Tiered Skimmer Basin	---(SK)---
	Infiltration Basin	---(IB)---

THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

PROJECT LENGTH

Length Roadway Project {Indian Grave} = 2.3 Miles
 Total Length State Project {Indian Grave} = 2.17 Miles

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
 WITH THE REGULATIONS SET FORTH BY THE
 NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
 NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
DIVISION OF HIGHWAYS
 DIVISION 11, DISTRICT 2 BOONE
 P.O. BOX 1460, BOONE, N.C. 28607
 2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"—Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

EROSION CONTROL & PIPE INSTALLATION SCHEDULE

TROUT BUFFER ZONE SEQUENCE

GENERAL E&SC NOTES

GROUND STABILIZATION CHART

Erosion Control Schedule and Notes

1. Generally, the order of installation of the erosion control measures will be as follows:
 - A. Temporary silt basins shall be installed before clearing and grubbing begins.
 - B. Silt fences and temporary silt ditches shall be installed after clearing and before grading.
 - C. Temporary stone ditch checks with PAM or wattles with PAM shall be installed in all disturbed areas as soon as the disturbance begins.
 - D. Final stone ditch checks or wattles shall be installed as soon as ditch line is established.
 - E. Pipe outlet and inlet protection will be done as soon as the pipe is installed.
 - F. Other permanent erosion control measures are to be implemented as soon as practical.
2. Temporary rock silt checks, type B will be spaced by percent grade as shown in the erosion control plan.
3. No. 5 stone, or equivalent, will be used in conjunction with the temporary rock silt checks in locations where water is leaving the project or entering a pipe.
4. All devices are to be cleaned out when half full.
5. Establish permanent vegetation per ground stabilization chart.

Notes:

For silt basin size see the attached erosion control plans.

PAM is to be placed on all Type A checks and wattles in the erosion control chain except for the final device in HWQ and Trout projects.

Wet Pipe Installation Schedule and Notes

1. Prior to installing any E&SC measures identify permit conditions and impact area limits.
2. Install erosion control devices.
3. Manage the water course. The pipe must be placed in the dry. Install dewatering measures.
4. Remove material and existing pipe while limiting material and sediment from entering stream and escaping the project.
5. Excavation of stream channel shall not exceed 10' on either side of new pipe or culvert unless indicated on permit.
6. Per permit conditions for Corps of Engineers and the Wildlife Resources Commission, all pipes in streams 48" or greater must be buried 12" below streambed elevation. Pipes less than 48" must be buried with 20% of the diameter below streambed elevation.
7. Place the new pipe and compact backfill.
8. Install slope protection on the outlet and inlet ends of the pipe. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
9. Establish permanent vegetation per ground stabilization chart.
10. More information on wet pipe installation can be found in the BMP manual section 4.2 "Pipe & Culvert installation"

General Erosion Control Sequence & Notes for NC DOT Projects in Trout Buffer Zones

1. Prior to installing any E&SC measures identify permit conditions and impact area limits. Review trout buffer variance approval conditions for any special provisions.
2. All materials should be on the hand before work is commenced.
3. Install EC devices
4. Work within the buffer zone should be sequenced to minimize the length of time that disturbed areas are exposed. Stream bank stabilization, which includes the area from the edge of water to the top of bank, should be phased so that each day's work is a completed work, including provision of adequate ground cover.
5. Graded slopes and fills within the trout buffer zone will within 7 calendar days of completion of any phase of grading be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.
6. Graded slopes and fills within the trout buffer zone (excluding road shoulders) shall be protected with rolled erosion control product, bonded fiber matrix, or flexible growth medium after seeding.

Notes:

Silt fence backed by woven wire, with a post spacing of 6 feet, shall be used instead of standard silt fence in trout buffer zone. Special sediment control fence shall be used in areas where bedrock is encountered which prohibits the proper anchoring of fabric, and in low points of the silt fence in 3-foot sections to allow for concentrated flows.

The disturbed areas within the stream buffer shall be restored to native vegetation characteristic of an undisturbed buffer to the extent practical upon completion of construction.

Flyrock protection such as blast mats should be provided for blasting in close proximity to streams.

PAM is to be placed on all Type A checks and wattles in the erosion control chain except for the final device in HWQ and Trout projects.

GROUND STABILIZATION CHART

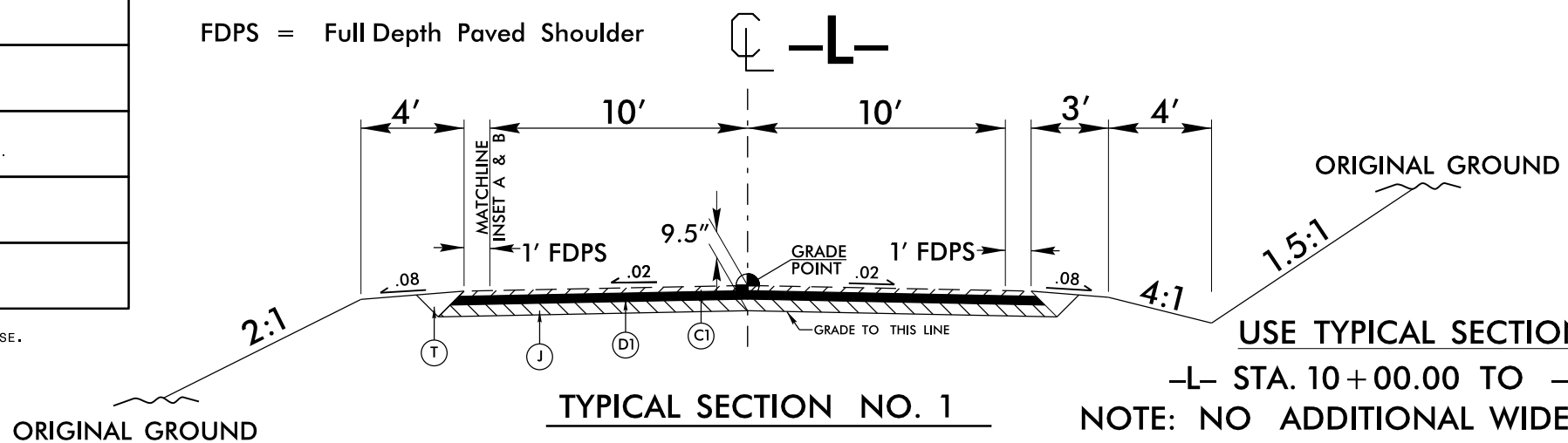
Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10 ft. or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length
All other areas flatter than 4:1	14 days	None (except for perimeters and HQW zones)

6/2/99
 22-FEB-2016 14:32
 \\SRV133\plan\plan\New EC work\plansheets\indiangrove-tyr.dgn
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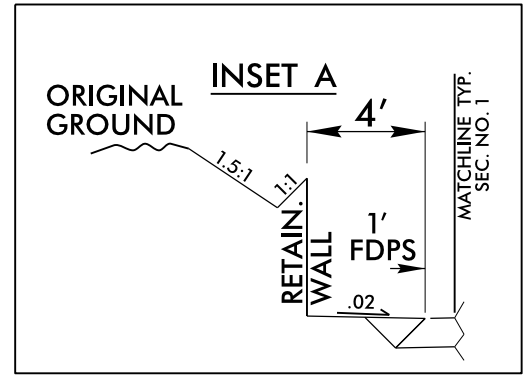
PAVEMENT SCHEDULE (PRELIMINARY PAVEMENT DESIGN)	
C1	Asphalt Surface Treatment - Split Seal (78 M Stone)
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
J	PROP. 6" AGGREGATE BASE COURSE.
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

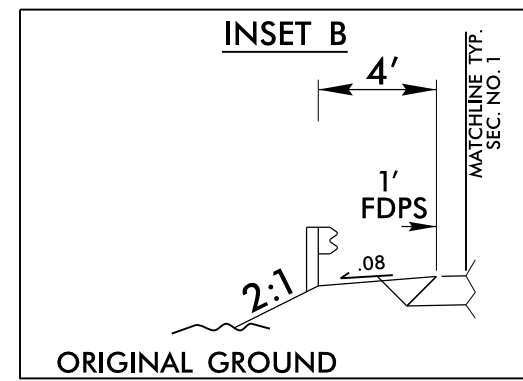
FDPS = Full Depth Paved Shoulder



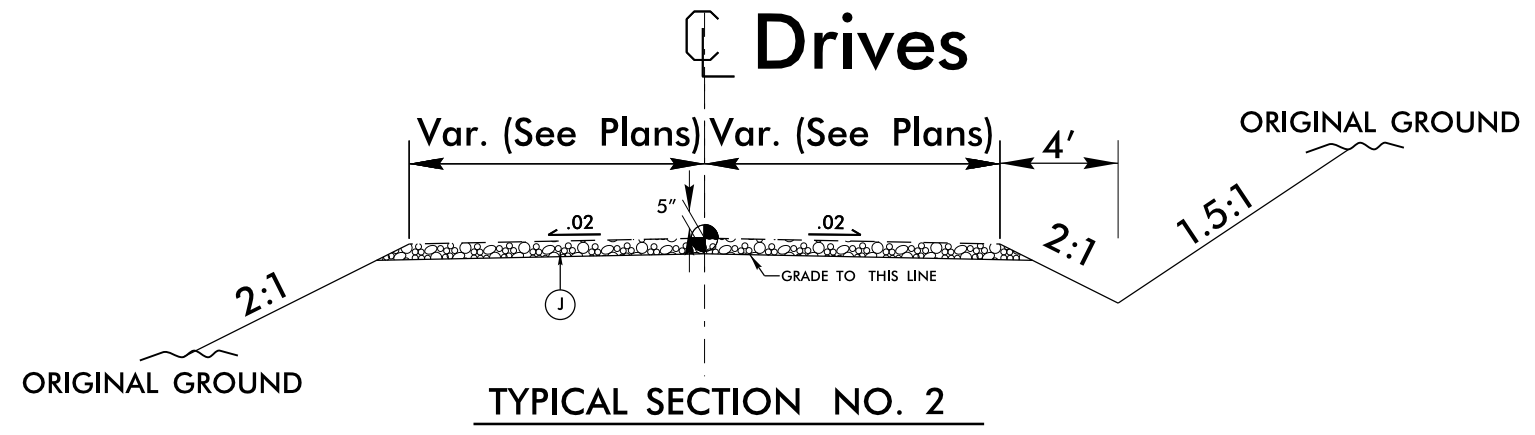
USE TYPICAL SECTION NO. 1 FOR:
 -L- STA. 10+00.00 TO -L- STA. 111+00.00
 NOTE: NO ADDITIONAL WIDENING FOR GUARDRAIL



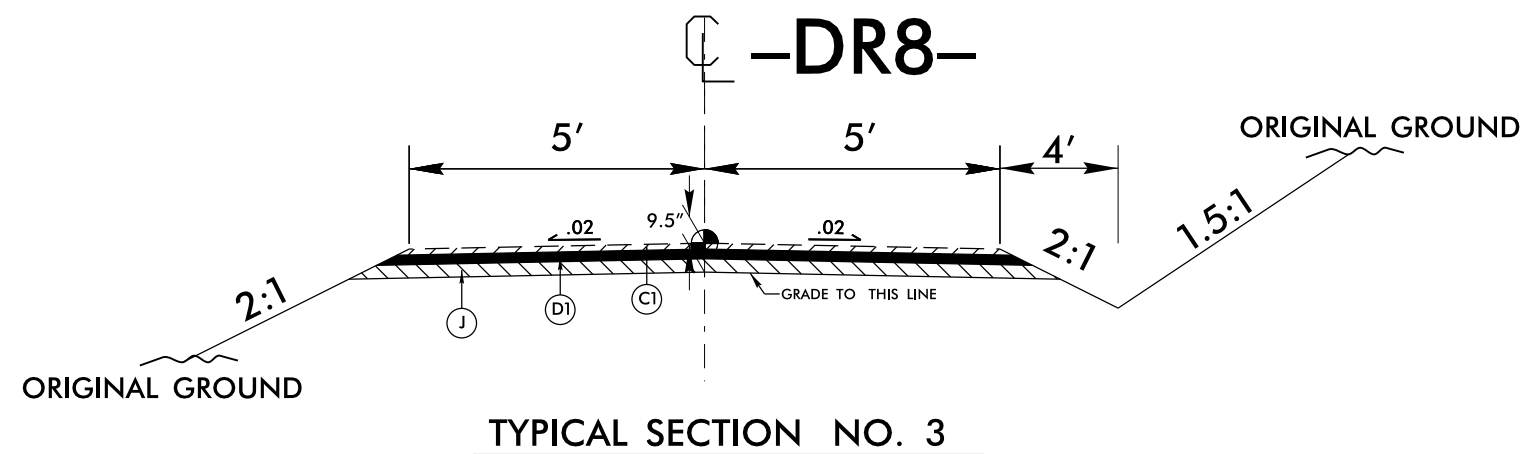
USE INSET A AS FOLLOWS:
 -L- STA. 29+50 +/- TO -L- STA. 30+64 +/-



USE INSET B AS FOLLOWS:
 REFER TO PLANS FOR LOCATIONS
 WHERE GUARDRAIL IS USED.



- USE TYPICAL SECTION NO. 2 FOR:
- DR1- STA. 10+10.00 TO -DR1- STA. 10+50.00
 - DR1A- STA. 10+10.00 TO -DR1A- STA. 10+50.00
 - DR2- STA. 10+10.00 TO -DR2- STA. 10+52.42
 - DR3- STA. 10+10.04 TO -DR3- STA. 10+40.00
 - DR4- STA. 10+30.00 TO -DR4- STA. 10+80.77
 - DR5- STA. 10+14.23 TO -DR5- STA. 12+60.00
 - DR6- STA. 10+10.07 TO -DR6- STA. 10+50.00
 - DR7- STA. 10+10.92 TO -DR7- STA. 10+50.00
 - DR9- STA. 10+10.00 TO -DR9- STA. 11+15.00
 - DR10- STA. 10+10.01 TO -DR10- STA. 10+65.00



USE TYPICAL SECTION NO. 3 FOR:
 -DR8- STA. 10+10.00 TO -DR8- STA. 11+60.00

PROJECT REFERENCE NO. 11C.014050	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
TGS ENGINEERS	TGS ENGINEERS SUITE 141 975 WALNUT STREET CARY, NC 27511 PH (919) 319-8850

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

PROJECT REFERENCE NO. <i>11C.014050</i>	SHEET NO. <i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
11C.095050	3-C

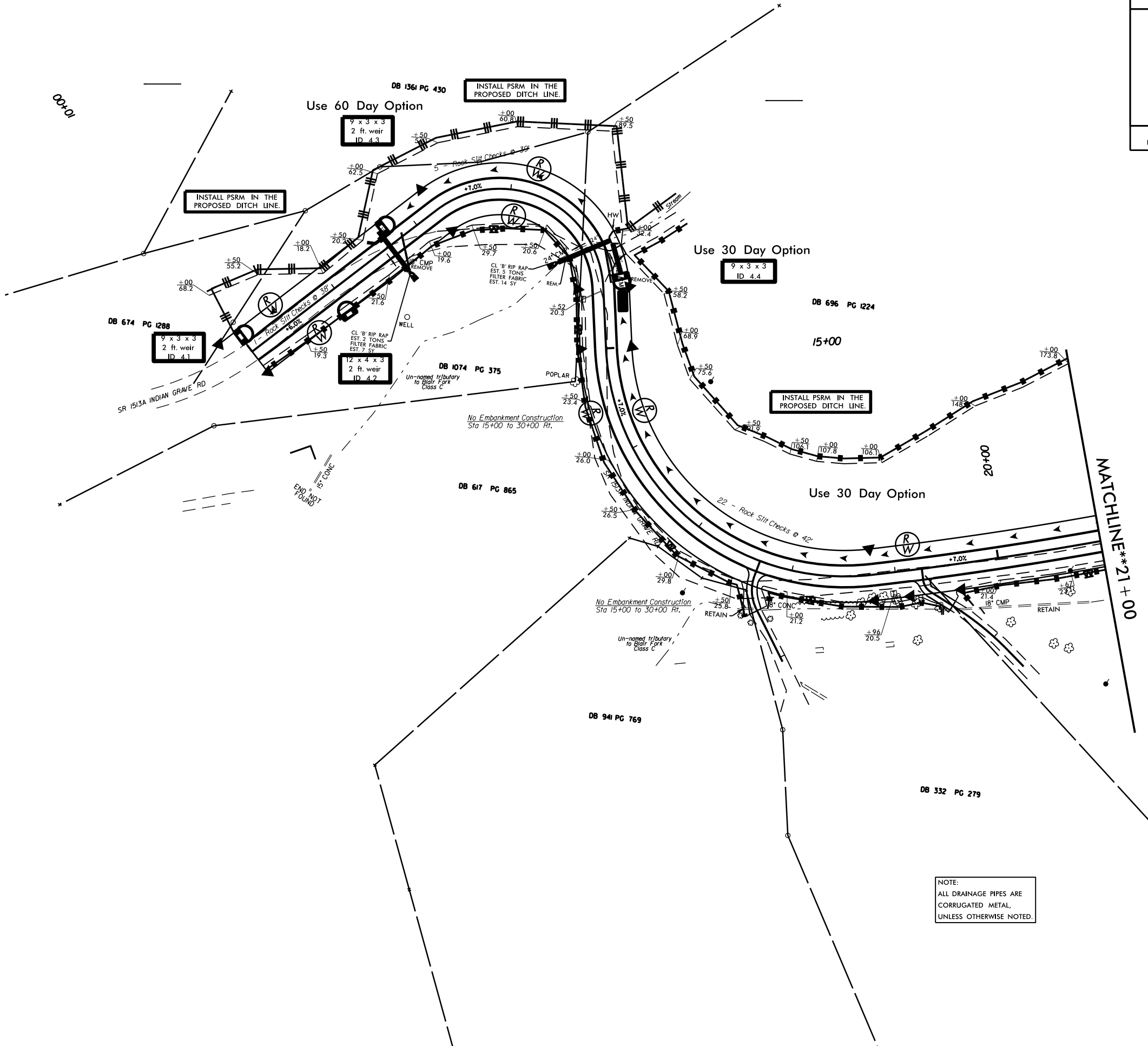
Revised 2/10/2016

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

SIZE	LOCATION (LT, RT, OR CL)	NEW PIPES								EXISTING PIPES								PIPE REMOVAL	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	J.B. STD. 840.31 OR 840.32	REMARKS
		C.S. PIPE In accordance with NCDOT 2012 Specifications																				
		12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"					
TYPE																						
STATDN																						
11+67 L-	CL			48'																	ADD PIPE	
11+82 L-	CL									38							38				REMOVE PIPE	
13+97 L-	CL											39					39				REMOVE WET PIPE	
14+01 L-	CL				59												0				ADD WET PIPE	
14+14 L-	LT			28						36							36				REPLACE DRIVE PIPE	
23+92 L-	CL			52'													0				ADD PIPE	
24+13 L-	CL										41'						41				REMOVE PIPE	
32+30 L-	LT		46														0				ADD DRIVE PIPE	
33+74 L-	RT				32												0				ADD DRIVE PIPE	
34+39 L-	CL				31												0				ADD PIPE	
34+42 L-	LT										31'						31				REMOVE PIPE	
35+90 L-	CL			64													0				ADD PIPE	
36+37 L-	LT										32						32				REMOVE PIPE	
38+85 L-	RT											29					29				REMOVE WET PIPE	
39+00 L-	CL						128										0				ADD WET PIPE WITH HEADWALL	
41+52 L-	RT										36'						36				REMOVE PIPE	
41+96 L-	RT										31						31				REMOVE WET PIPE	
42+11 L-	CL				137												0				ADD WET PIPE	
49+83 L-	RT										31						31				REMOVE PIPE	
49+87 L-	CL			107													0				ADD PIPE	
54+42 L-	RT											35'					35				REMOVE WET PIPE	
55+14 L-	RT										31						31				REMOVE WET PIPE	
55+29 L-	CL					212											0				ADD WET PIPE	
57+56 L-	CL					165											0				ADD WET PIPE	
57+69 L-	RT											32					32				REMOVE WET PIPE	
60+46 L-	CL										31'						31				REMOVE PIPE	
60+50 L-	CL			76													0				ADD PIPE	
63+47 L-	RT										32						0				DO NOT DISTURB	
63+37 L-	LT				58												0				ADD WET PIPE & JB	
63+53 L-	CL			107													0				ADD WET PIPE	
63+87 L-	CL			123'													0				ADD PIPE	
64+57 L-	RT										41						0				DO NOT DISTURB	
68+24 L-	CL			153													0				ADD PIPE	
68+58 L-	RT										41						0				DO NOT DISTURB	
72+95 L-	CL										51						0				REMOVE PIPE	
73+02 L-	CL			67													0				ADD PIPE	
75+71 L-	RT		26														0				ADD DRIVE PIPE	
81+19 L-ALT2	CL			75							31						31				REPLACE PIPE	
85+22 L-ALT2	CL			69							40						40				REPLACE PIPE	
88+96 L-ALT2	LT										41						0				DO NOT DISTURB	
89+14 L-ALT2	LT										41'						41				REMOVE PIPE	
89+34 L-ALT2	CL			108													0				ADD PIPE	
93+00 L-ALT3	CL			59							40						40				REPLACE PIPE	
97+09 L-ALT3	CL			51													0				ADD PIPE	
97+31 L-ALT3	CL										41						41				REMOVE PIPE	
101+33 L-ALT3	LT			37'													0				ADD DRIVE PIPE	
101+61 L-ALT3	CL			47													0				ADD PIPE	
101+69 L-ALT3	CL										41						41				REMOVE PIPE	
103+40 L-ALT3	CL											80					80				REMOVE PIPE	
105+56 L-ALT3	LT			36													0				ADD DRIVE PIPE	
105+60 L-ALT3	LT										21'						21				REMOVE PIPE	
105+84 L-ALT3	LT			24							29						29				REPLACE DRIVE PIPE	
106+11 L-ALT3	RT			22													0				ADD DRIVE PIPE	
109+83 L-ALT1	LT										23						23				REMOVE PIPE	
109+91 L-ALT1	LT			44													0				ADD PIPE	
110+27 L-ALT1	CL										32'						32				REMOVE PIPE	
110+31 L-ALT1	CL				46												0				ADD PIPE	
SHEET TOTALS			0	172	1204	363	377	128	0	0	2244	36	307	569	135	0	0	0	0	0	892	1

REVISIONS

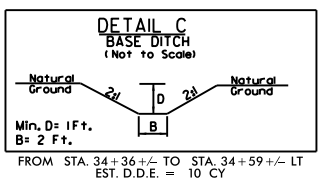
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11C.014050	EC-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE:
ALL DRAINAGE PIPES ARE
CORRUGATED METAL,
UNLESS OTHERWISE NOTED.

8/17/99

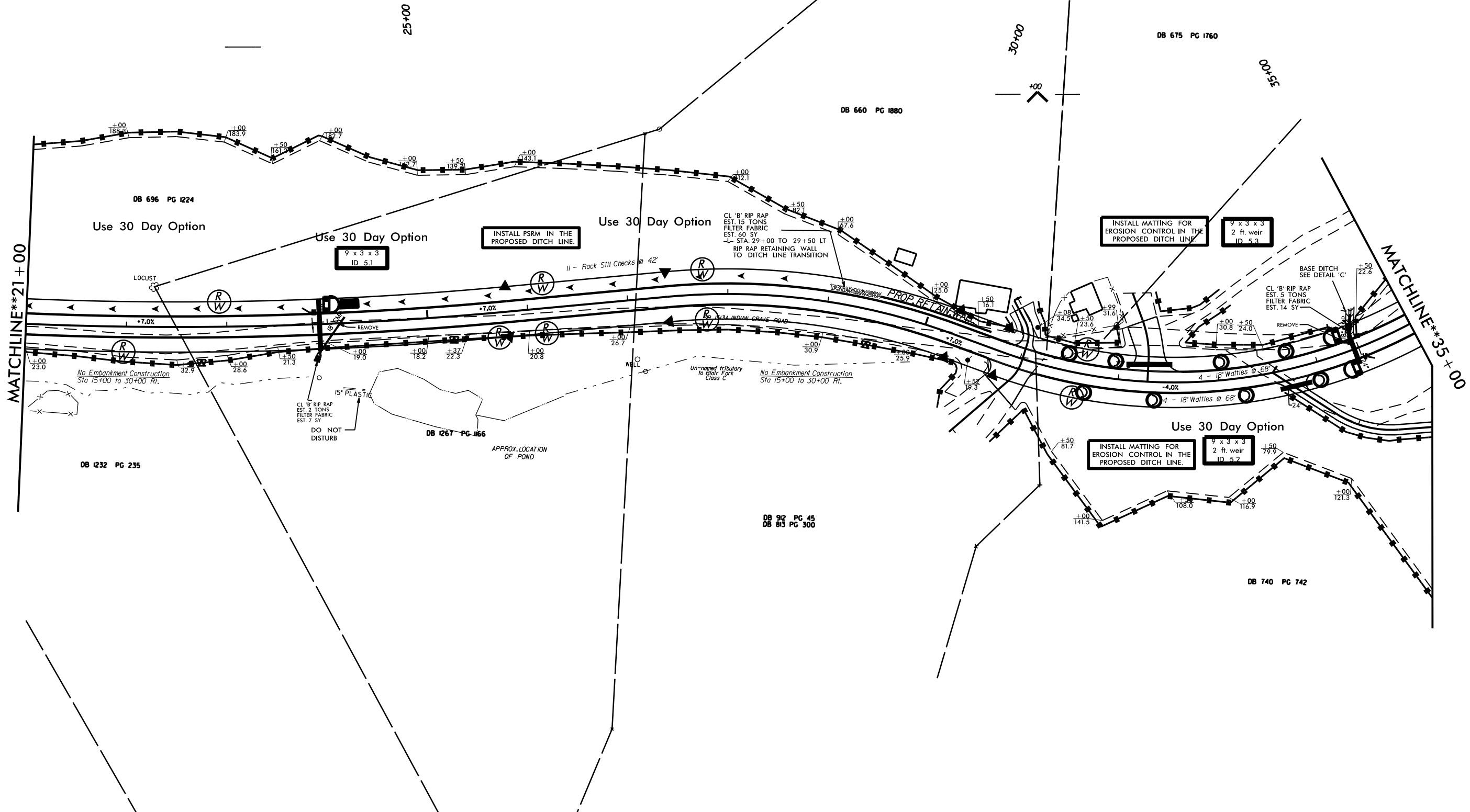
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R/W SHEET NO.			
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REVISIONS

MATCHLINE**21+00

MATCHLINE**35+00



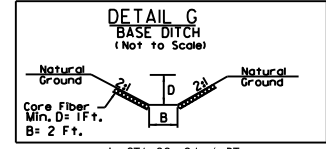
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8/17/99

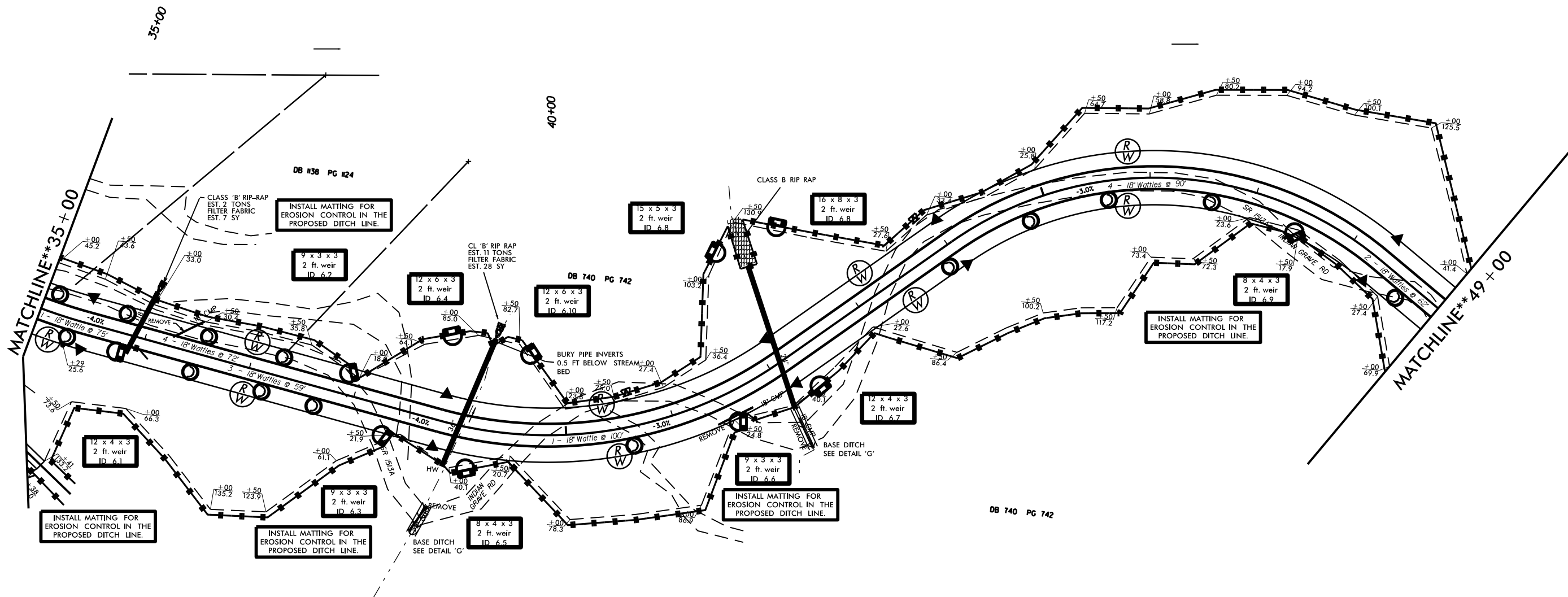
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REVISIONS

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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- STA. 38+94+/- RT
EST. D.D.E. = 15 CY
-L- STA. 42+00+/- RT
EST. D.D.E. = 15 CY



45+00

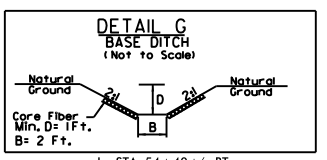
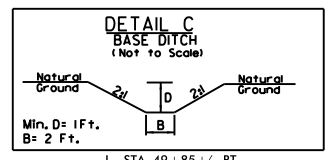
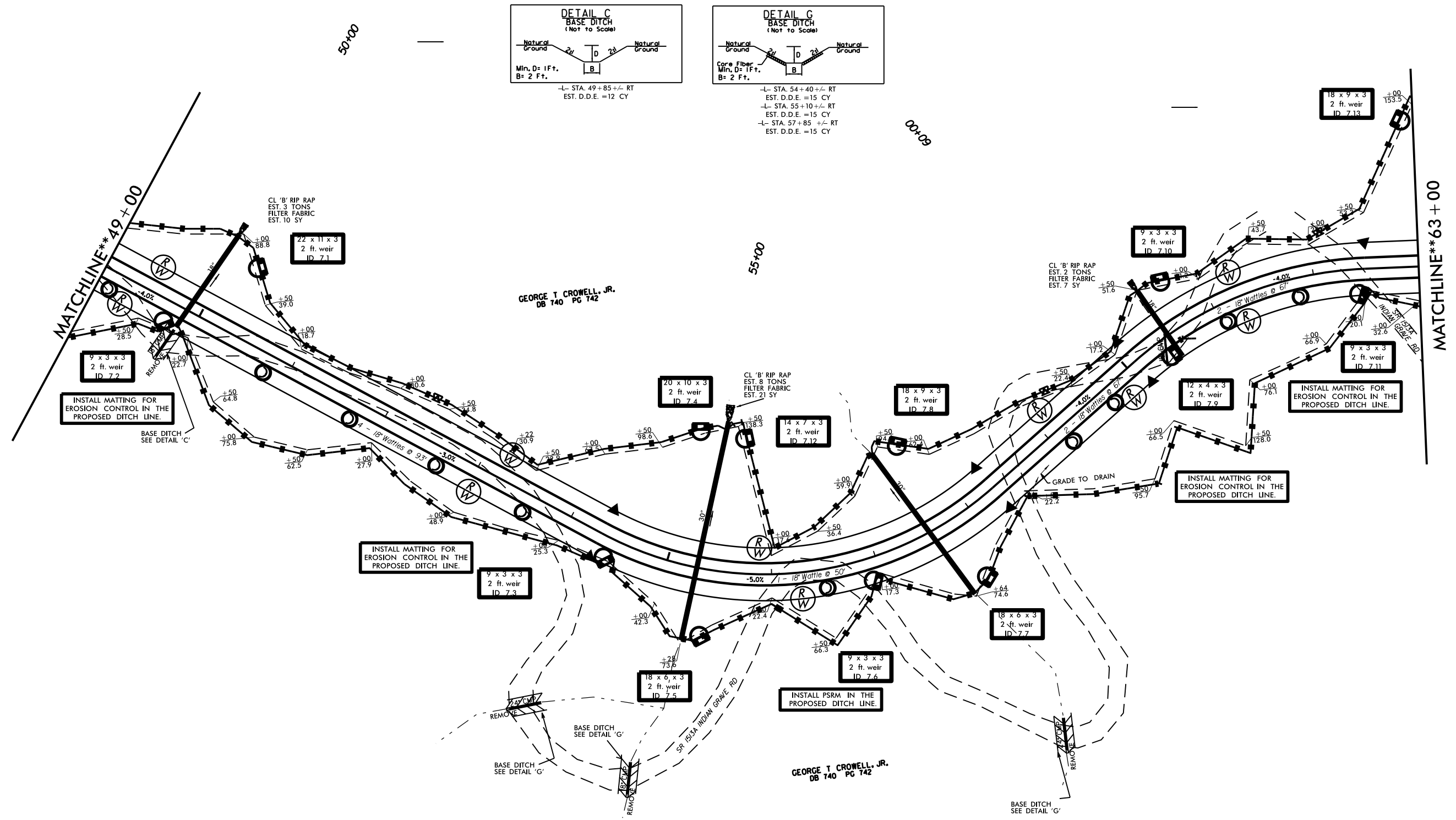
DB 740 PG 742

8/17/99

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
11C.014050	EC-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



50+00

55+00

60+00

MATCHLINE** 49+00

MATCHLINE** 63+00

GEORGE T. CROWELL, JR.
DB 740 PG 742

GEORGE T. CROWELL, JR.
DB 740 PG 742

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

INSTALL PRSM IN THE
PROPOSED DITCH LINE.

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

BASE DITCH
SEE DETAIL 'C'

BASE DITCH
SEE DETAIL 'G'

BASE DITCH
SEE DETAIL 'G'

BASE DITCH
SEE DETAIL 'G'

9 x 3 x 3
2 ft. weir
ID 7.2

22 x 11 x 3
2 ft. weir
ID 7.1

20 x 10 x 3
2 ft. weir
ID 7.4

14 x 7 x 3
2 ft. weir
ID 7.12

18 x 9 x 3
2 ft. weir
ID 7.6

9 x 3 x 3
2 ft. weir
ID 7.10

18 x 9 x 3
2 ft. weir
ID 7.13

9 x 3 x 3
2 ft. weir
ID 7.11

12 x 4 x 3
2 ft. weir
ID 7.9

9 x 3 x 3
2 ft. weir
ID 7.3

18 x 6 x 3
2 ft. weir
ID 7.5

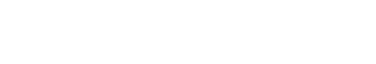
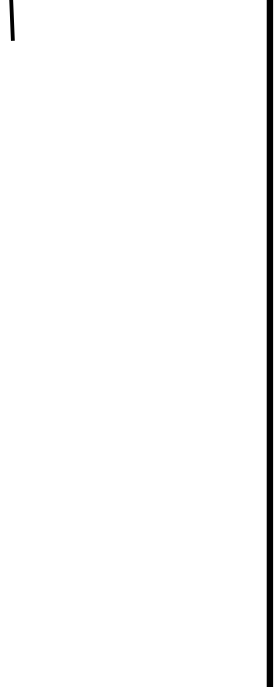
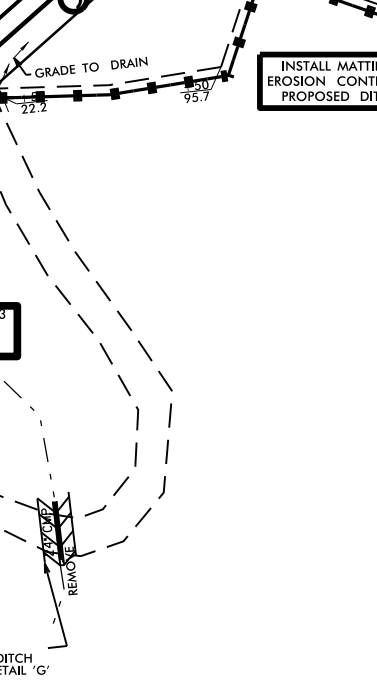
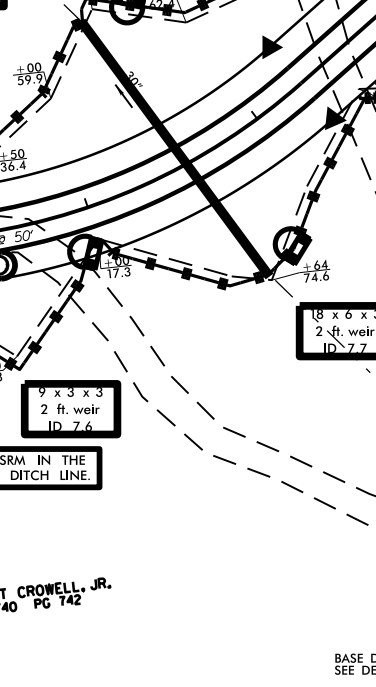
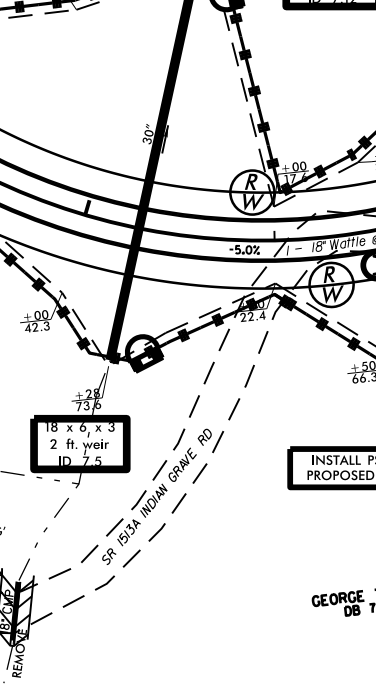
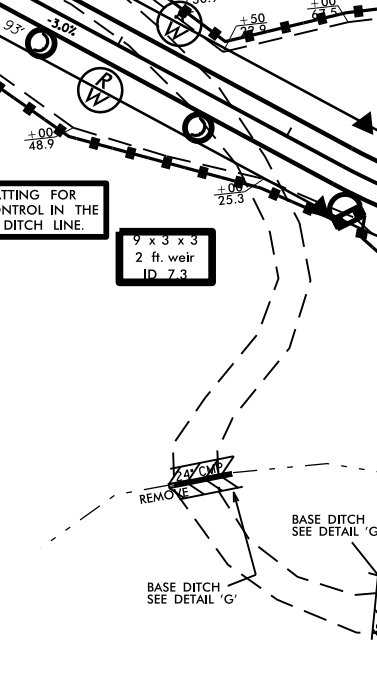
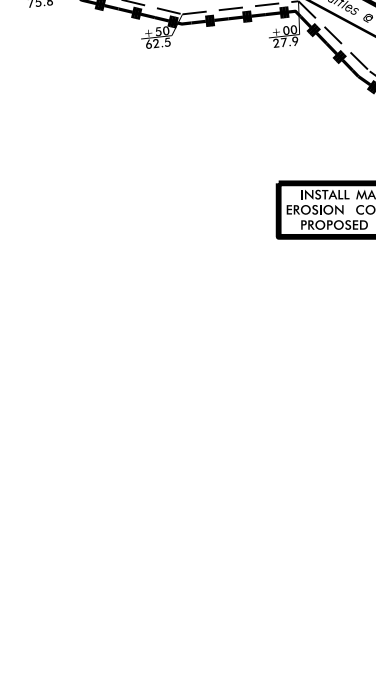
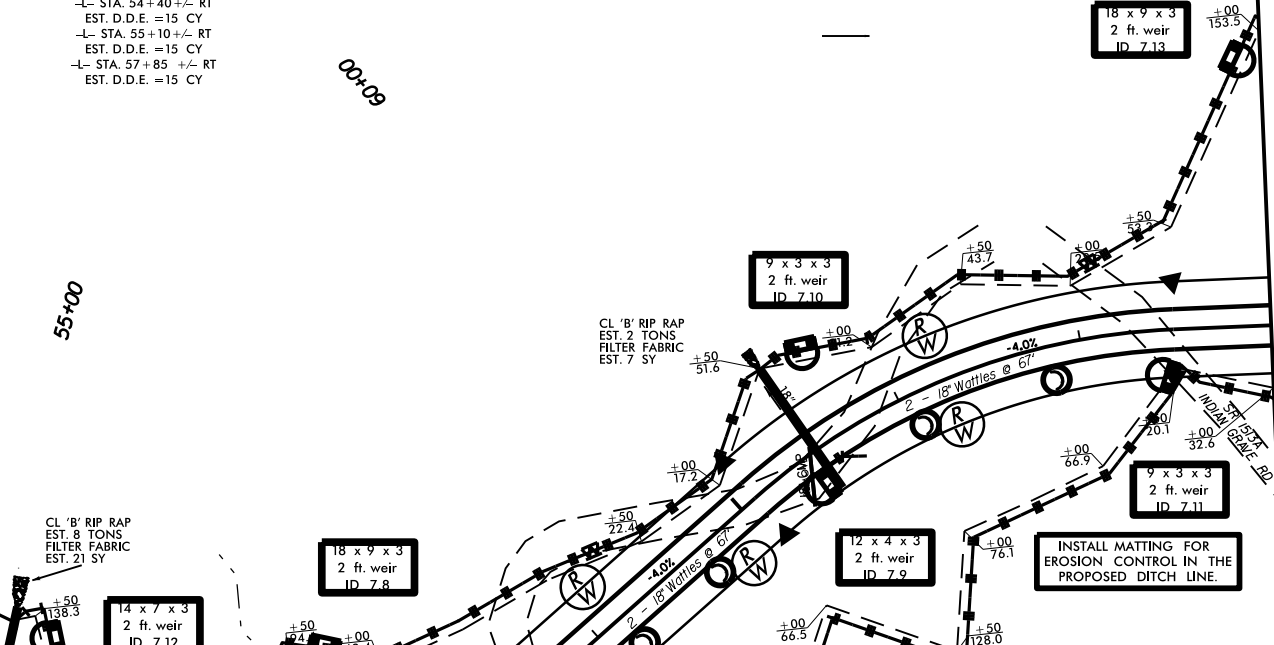
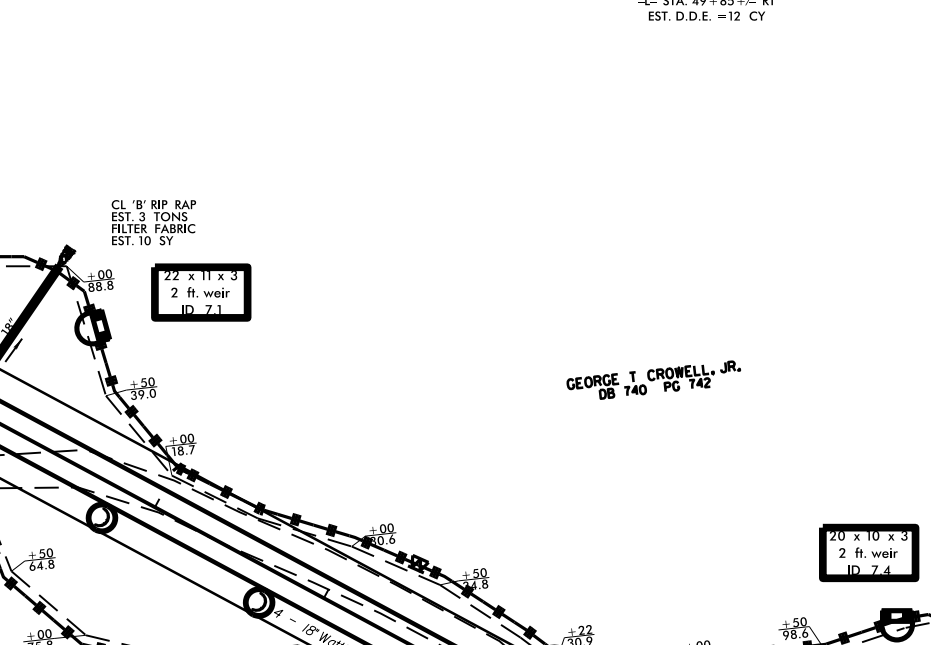
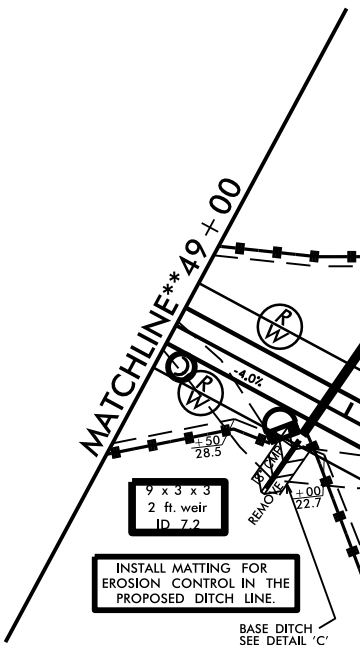
9 x 3 x 3
2 ft. weir
ID 7.6

18 x 6 x 3
2 ft. weir
ID 7.7

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CL 'B' RIP RAP
EST. 8 TONS
FILTER FABRIC
EST. 21 SY

CL 'B' RIP RAP
EST. 2 TONS
FILTER FABRIC
EST. 7 SY

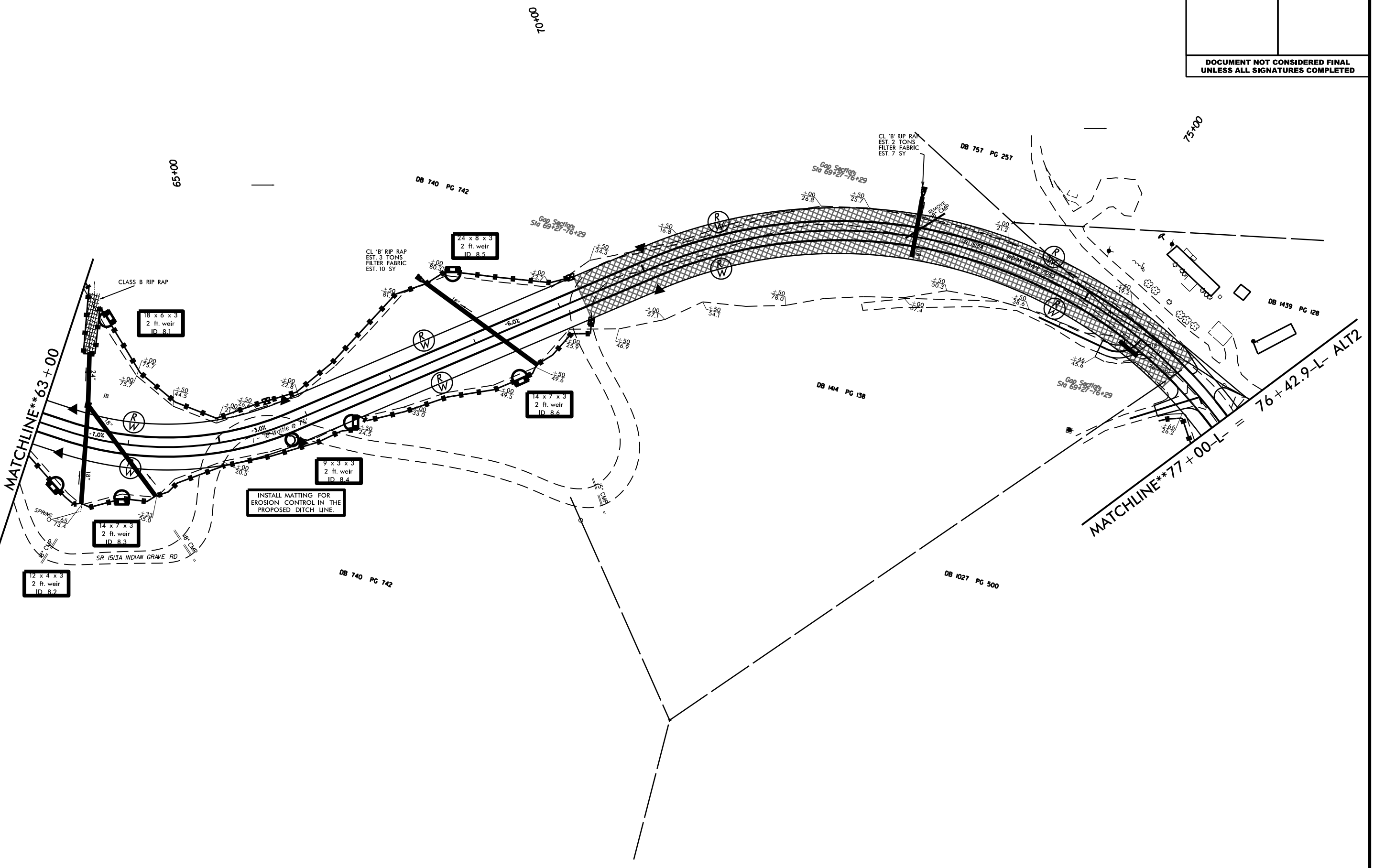


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REVISIONS

PROJECT REFERENCE NO.		SHEET NO.	
11C.014050		EC-8	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



00+00

65+00

75+00

MATCHLINE**63+00

MATCHLINE**77+00-L ALT2

12 x 4 x 3
2 ft. weir
ID 8.2

14 x 7 x 3
2 ft. weir
ID 8.3

9 x 3 x 3
2 ft. weir
ID 8.4

24 x 8 x 3
2 ft. weir
ID 8.5

14 x 7 x 3
2 ft. weir
ID 8.6

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

18 x 6 x 3
2 ft. weir
ID 8.1

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CL 'B' RIP RAP
EST. 2 TONS
FILTER FABRIC
EST. 7 SY

SPRING
73.4

Gap Section
Sta 69+27-76+29

Gap Section
Sta 69+27-76+29

Gap Section
Sta 69+27-76+29

DB 740 PG 142

DB 1027 PG 500

DB 144 PG 138

DB 1439 PG 128

DB 757 PG 257

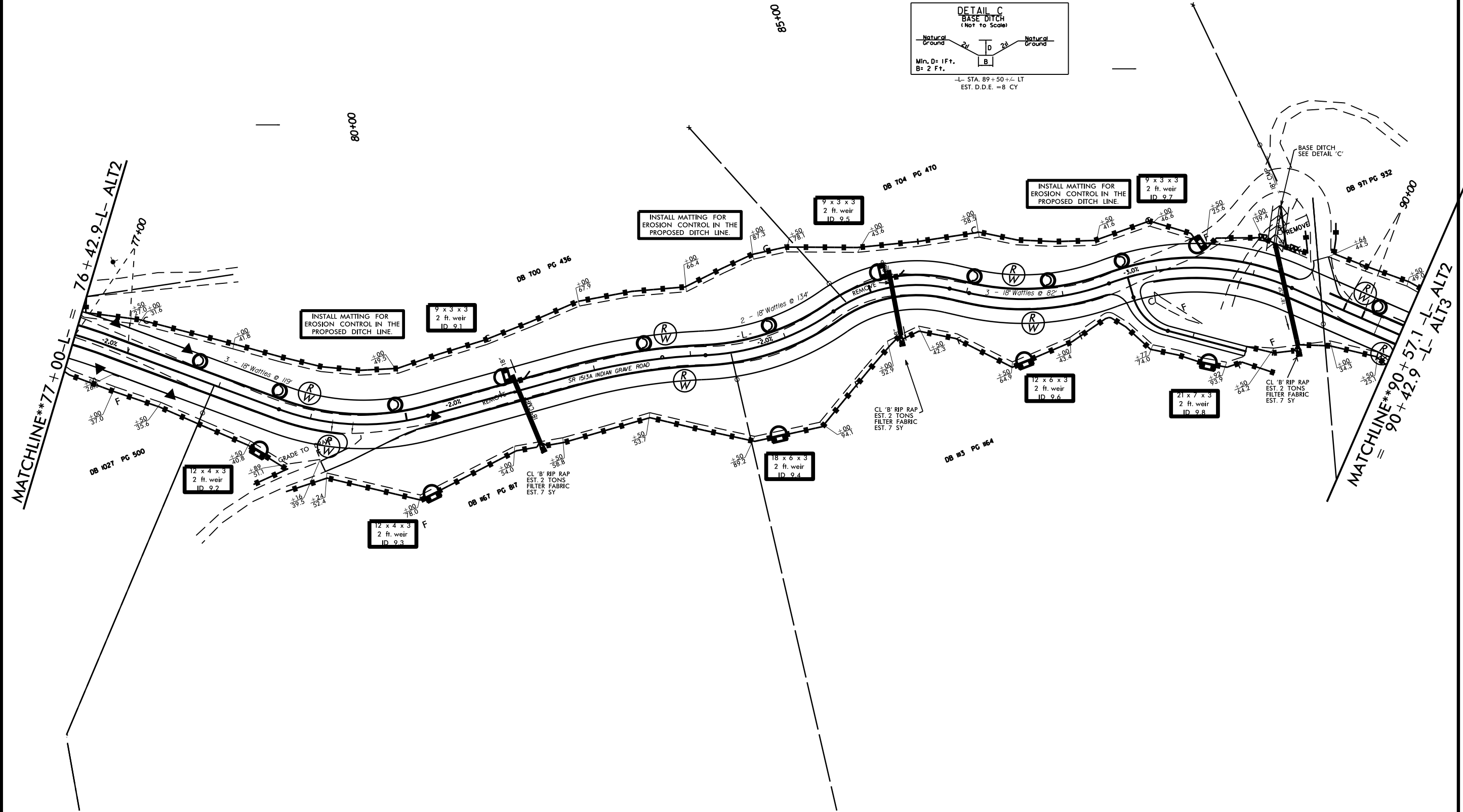
SR 1513A INDIAN GRAVE RD

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REVISIONS

PROJECT REFERENCE NO.		SHEET NO.	
11C.014050		EC-9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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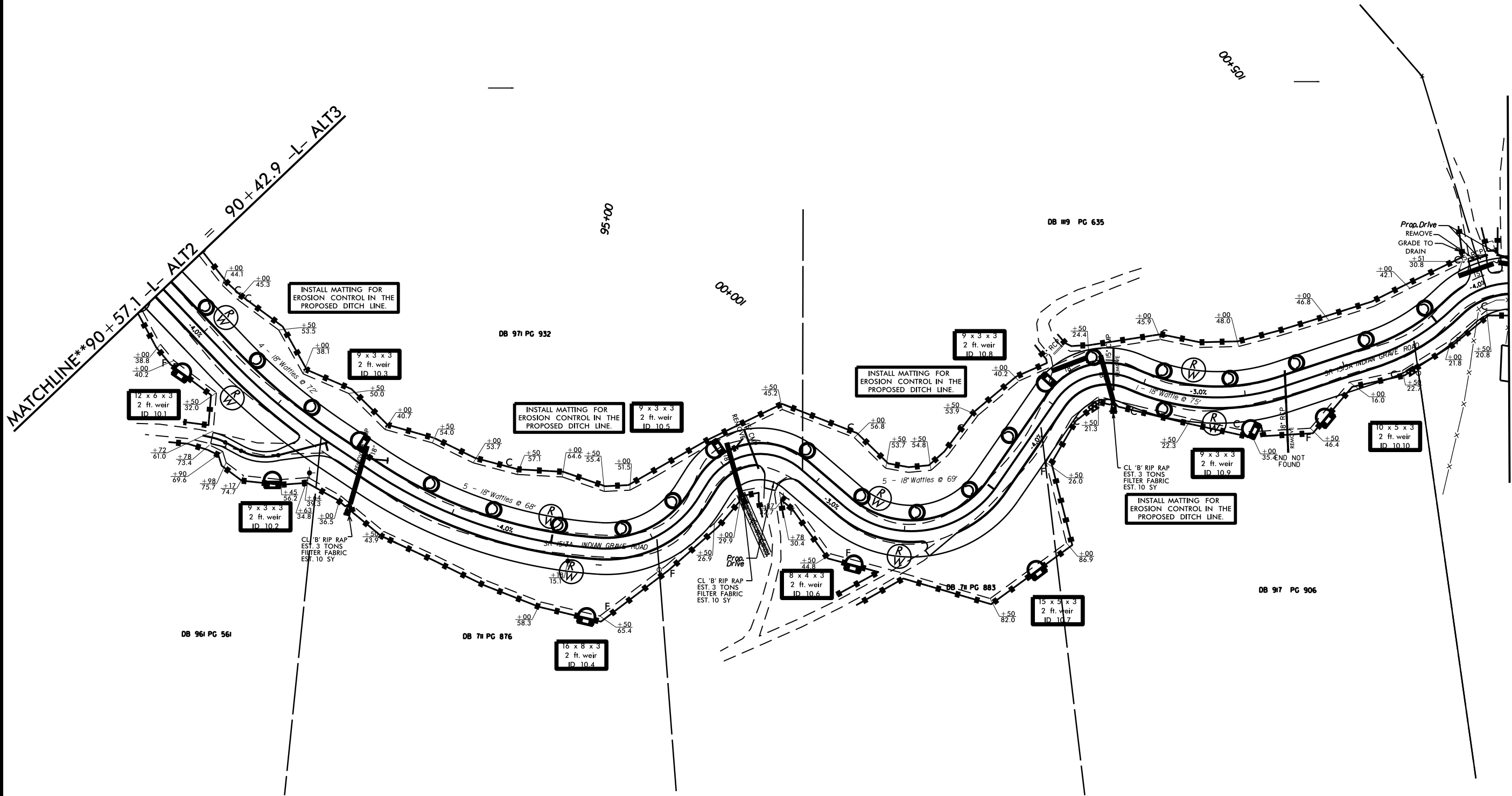
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PROJECT REFERENCE NO.		SHEET NO.	
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R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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REVISIONS

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 \$\$\$\$USE ENVELOPE\$\$\$\$

MATCHLINE**90+57.1 -L- ALT2 = 90+42.9 -L- ALT3



MATCHLINE**105+81.2 -L- ALT3

DB 961 PG 561

DB 71 PG 876

DB 971 PG 932

DB 119 PG 635

DB 71 PG 883

DB 917 PG 906

12 x 6 x 3
2 ft. weir
ID 10.1

9 x 3 x 3
2 ft. weir
ID 10.2

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 10.3

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 10.5

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 10.8

9 x 3 x 3
2 ft. weir
ID 10.9

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.

10 x 5 x 3
2 ft. weir
ID 10.10

16 x 8 x 3
2 ft. weir
ID 10.4

8 x 4 x 3
2 ft. weir
ID 10.6

15 x 5 x 3
2 ft. weir
ID 10.7

Prop. Drive
REMOVE
GRADE TO
DRAIN
+51
30.8

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CL 'B' RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

35' END NOT
FOUND

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REVISIONS

22-FEB-2016 14:32
R:\Roads\Projects\Secondary\Caldwell\SR1513A\Indian Grave Plans\New EC work\plansheets\ EC-11.dgn
\$\$\$\$\$USE ENVELOPE\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
11C.014050	EC-11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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