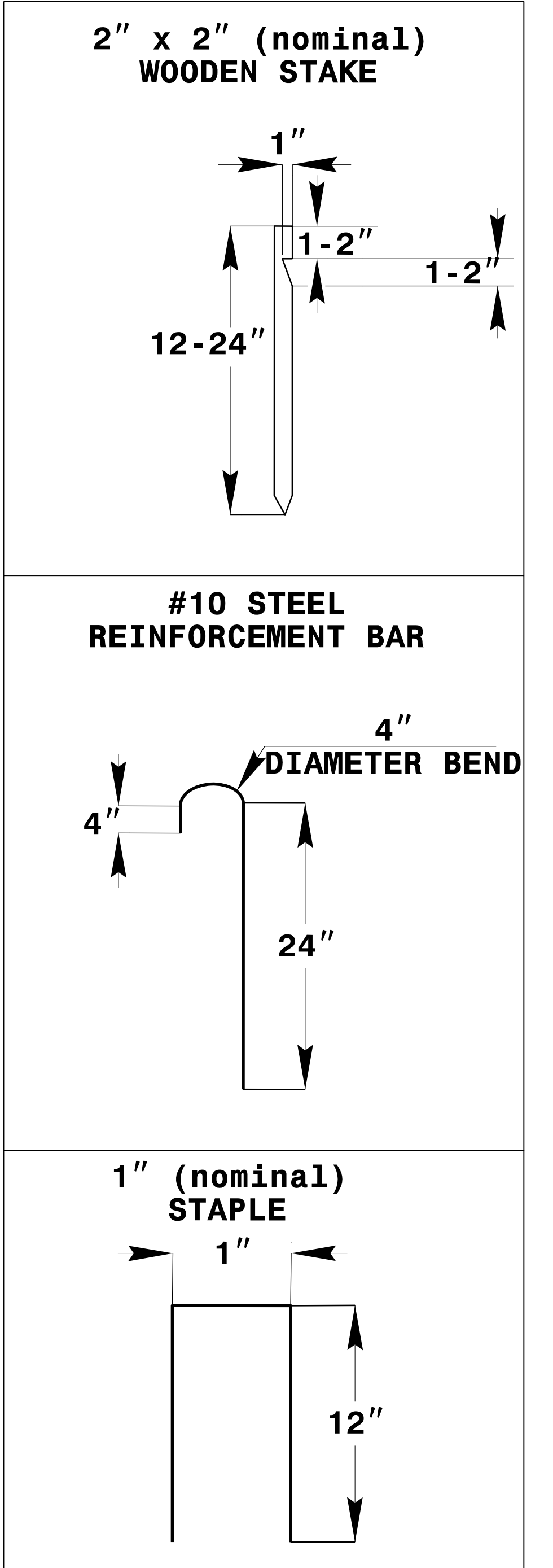
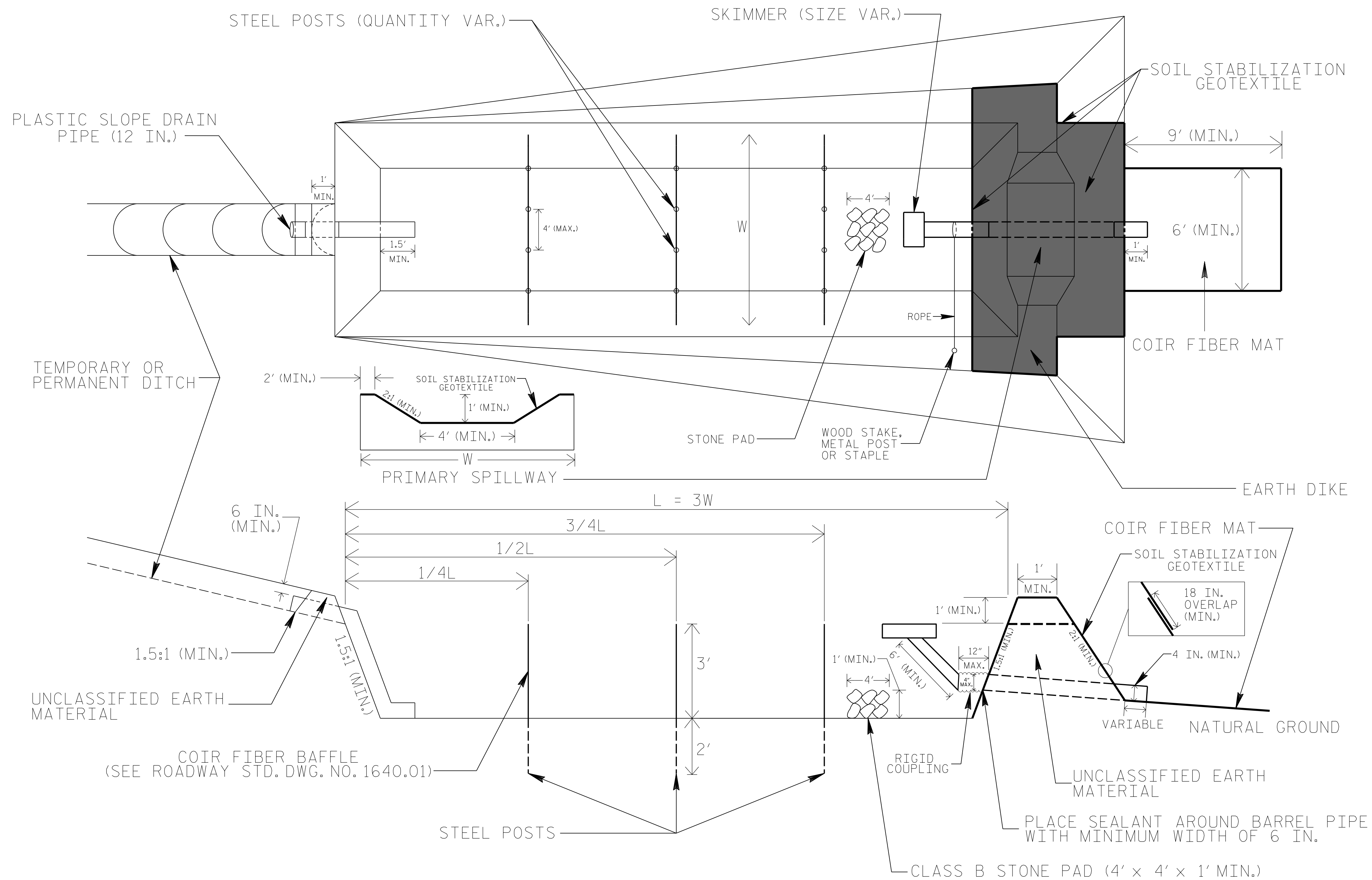


SKIMMER BASIN WITH BAFFLES DETAIL

RELEASE FOR CONSTRUCTION
DATE: _____



COIR FIBER MAT ANCHOR OPTIONS

NOTES

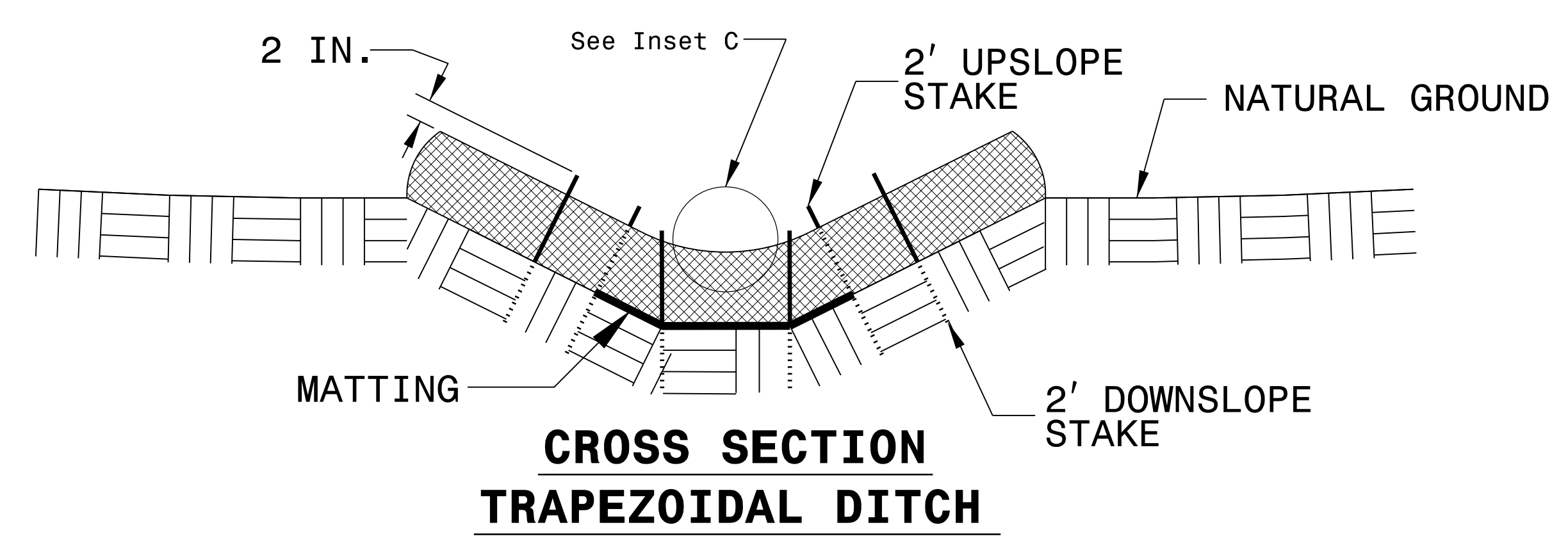
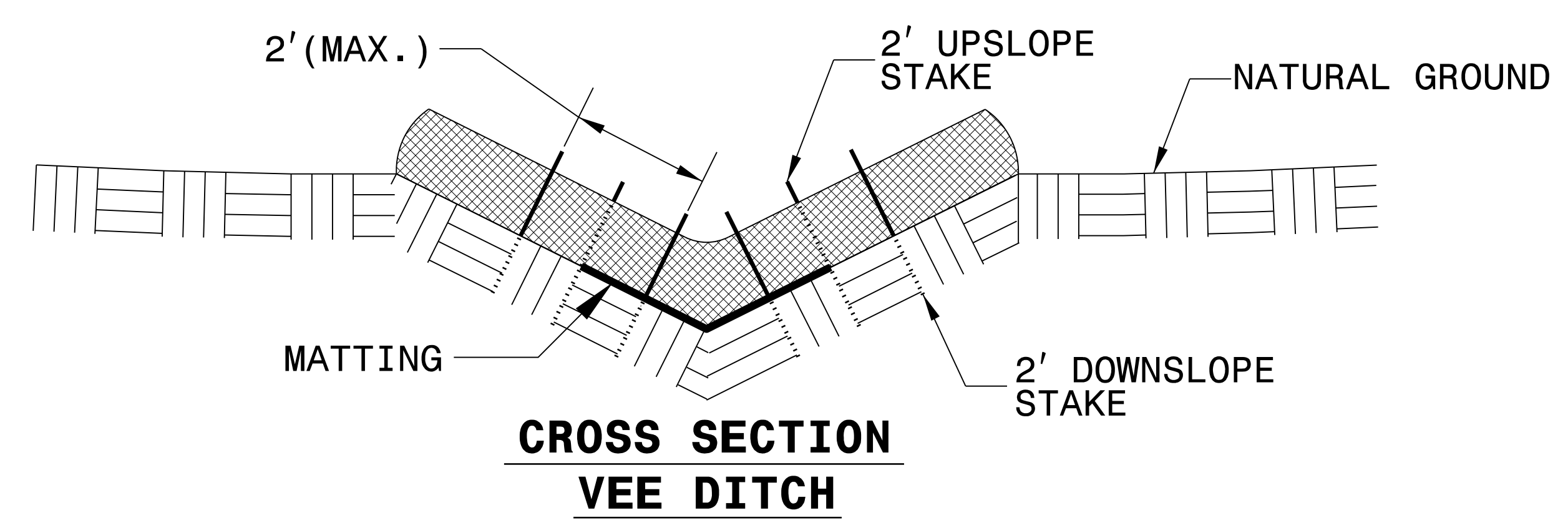
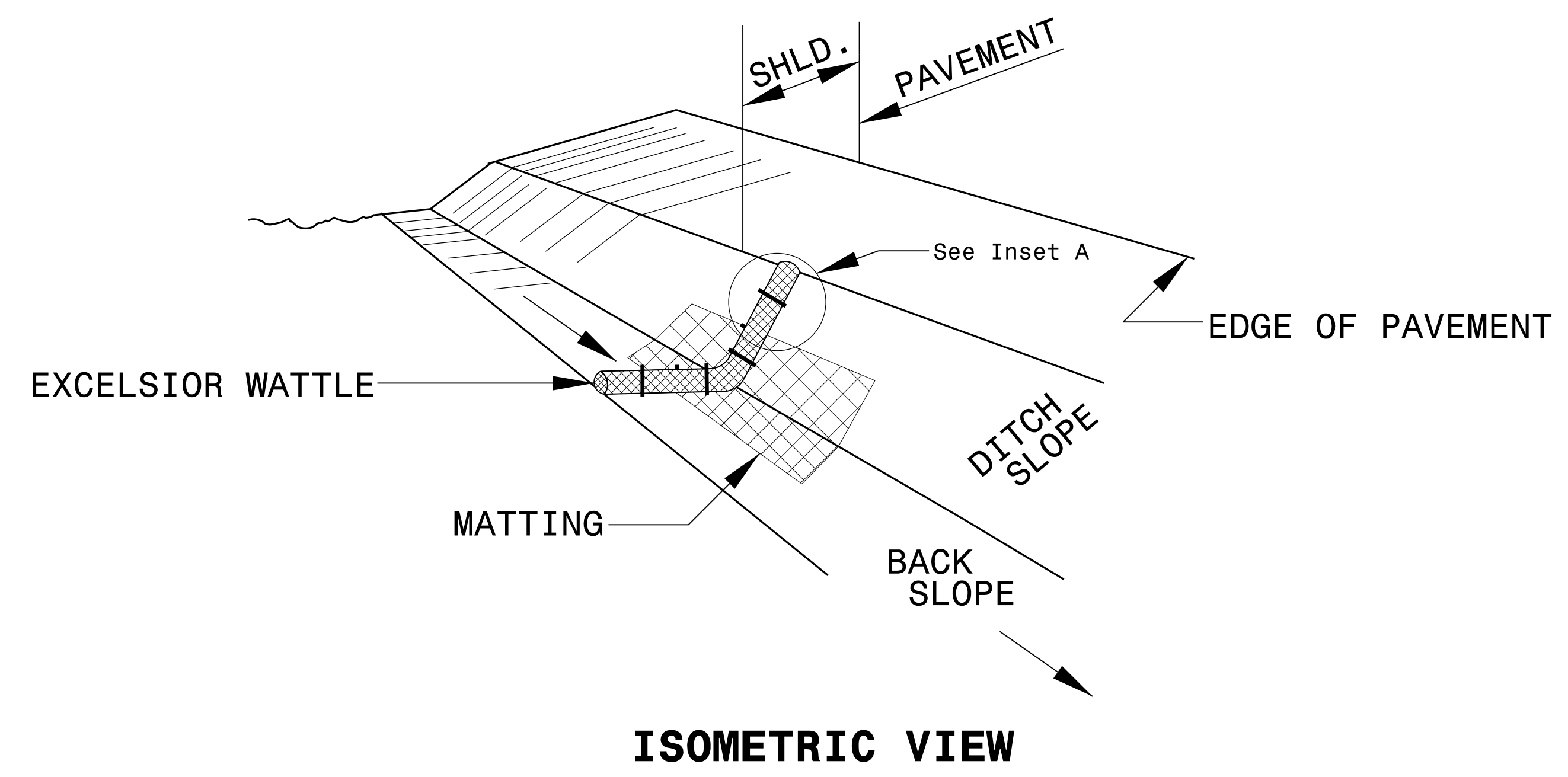
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

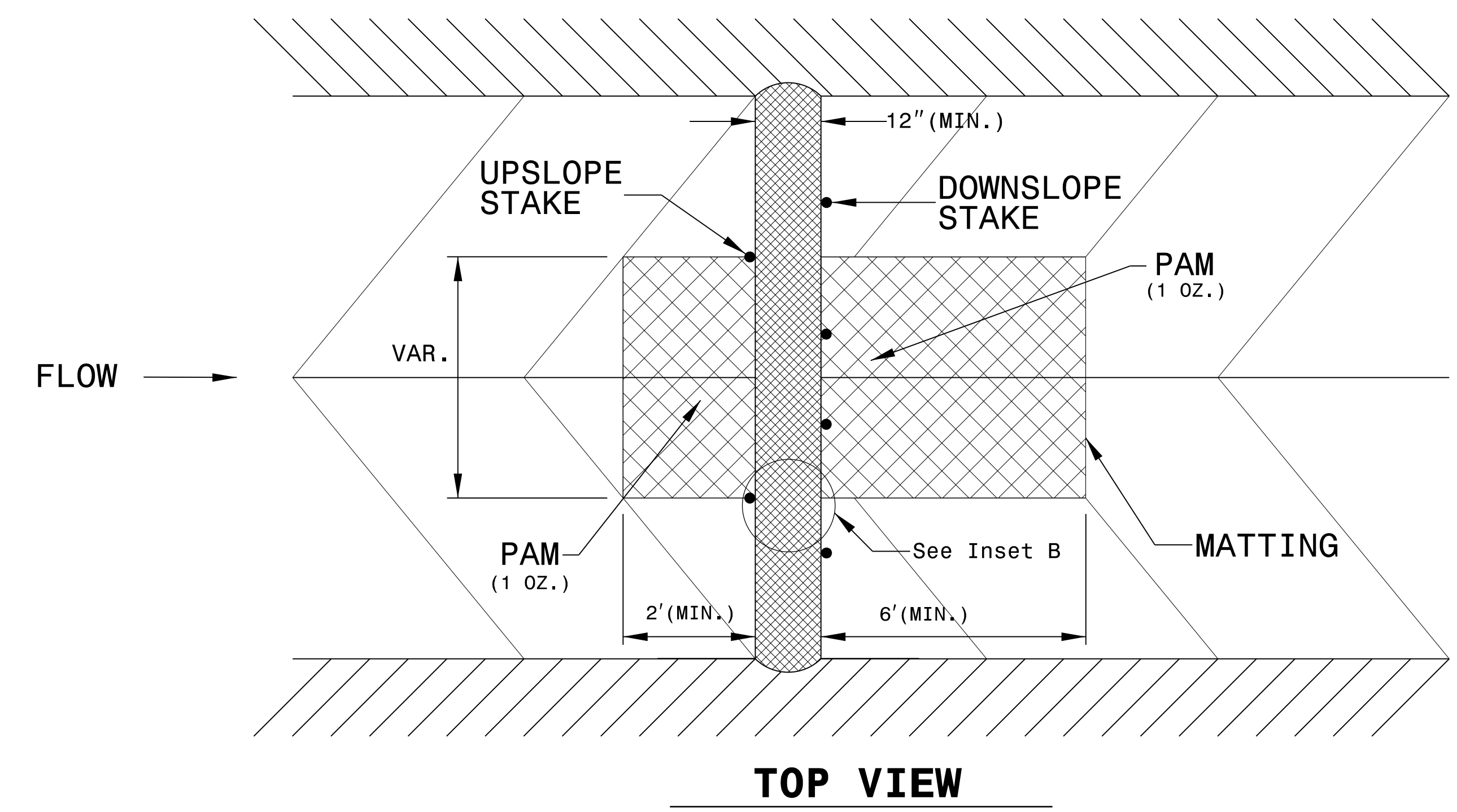
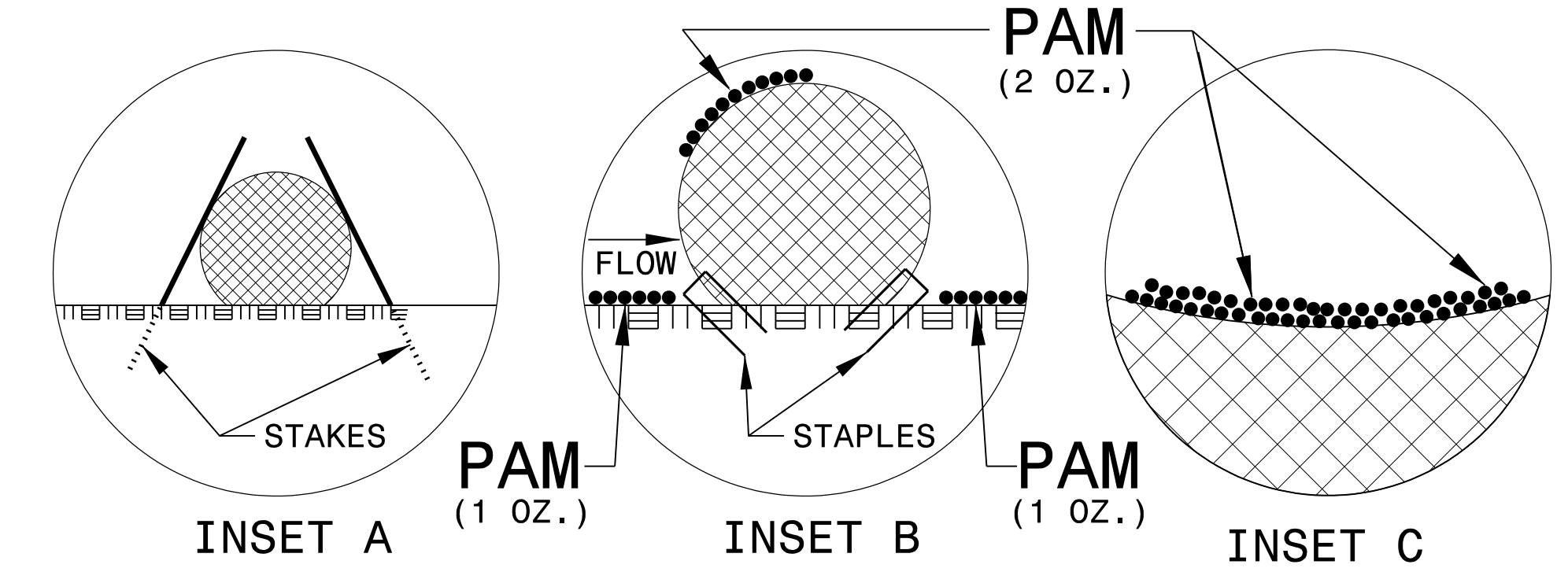
1/2/2021 171702620 U5738 \Roadside\CA000\PSH\U5738_Rdy_EC_02.dgn
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WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

RELEASE FOR CONSTRUCTION DATE: _____

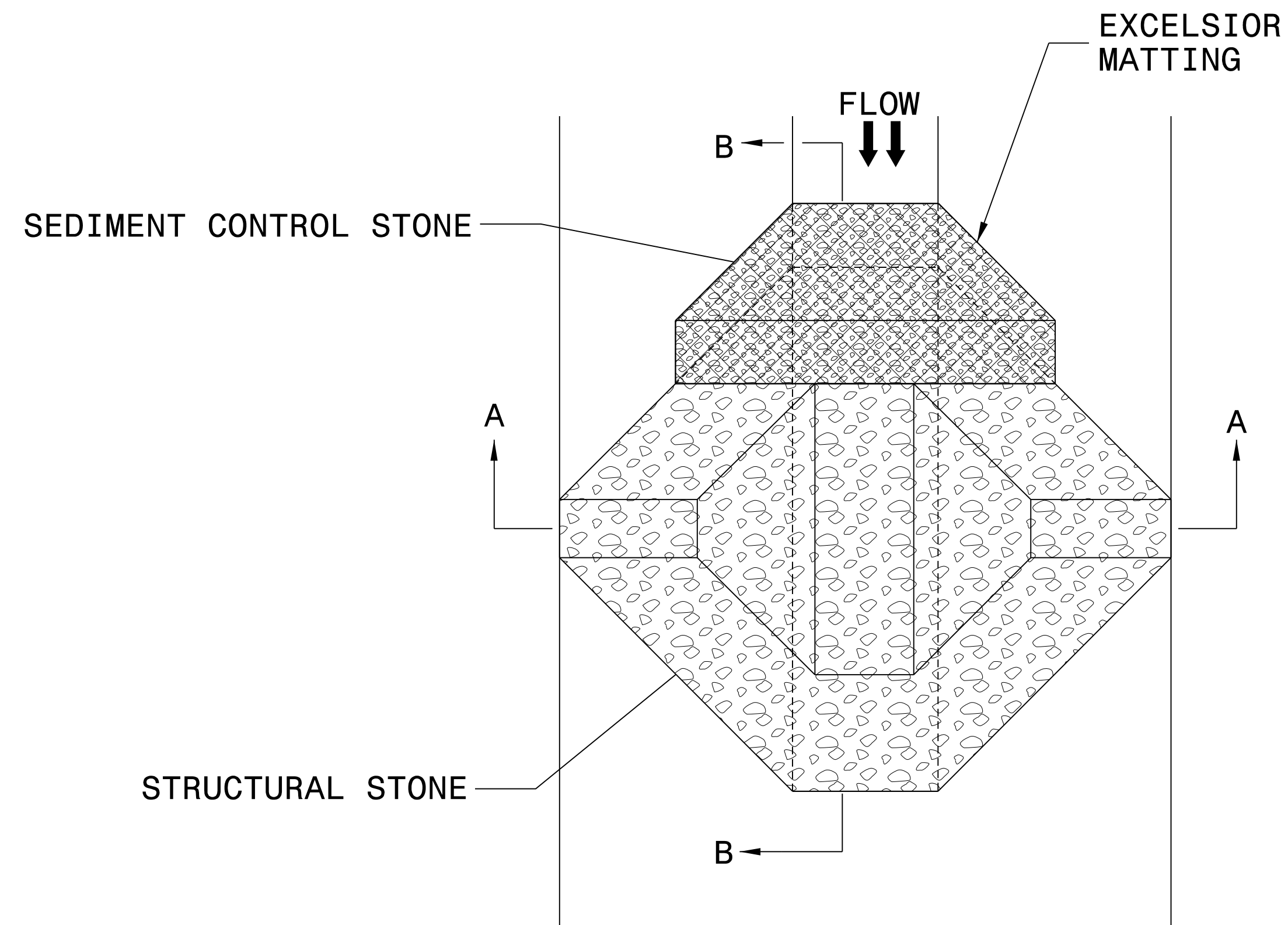


- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

RELEASE FOR
CONSTRUCTION
DATE: _____



PLAN

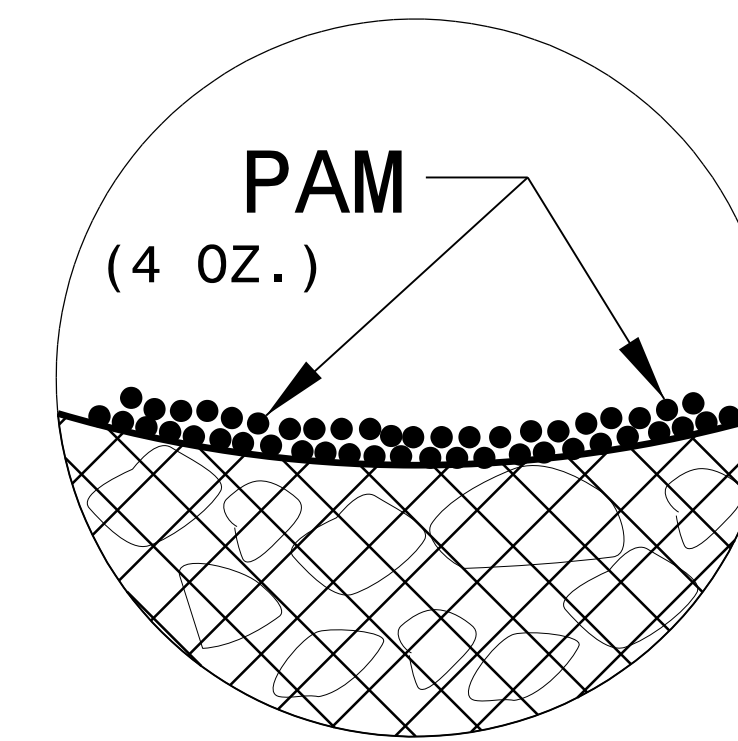
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

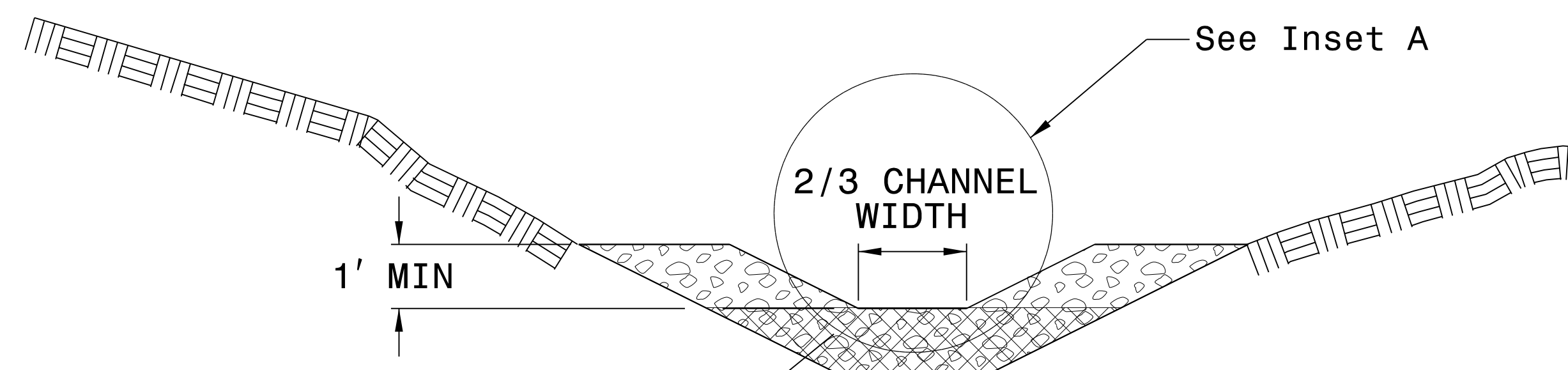
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

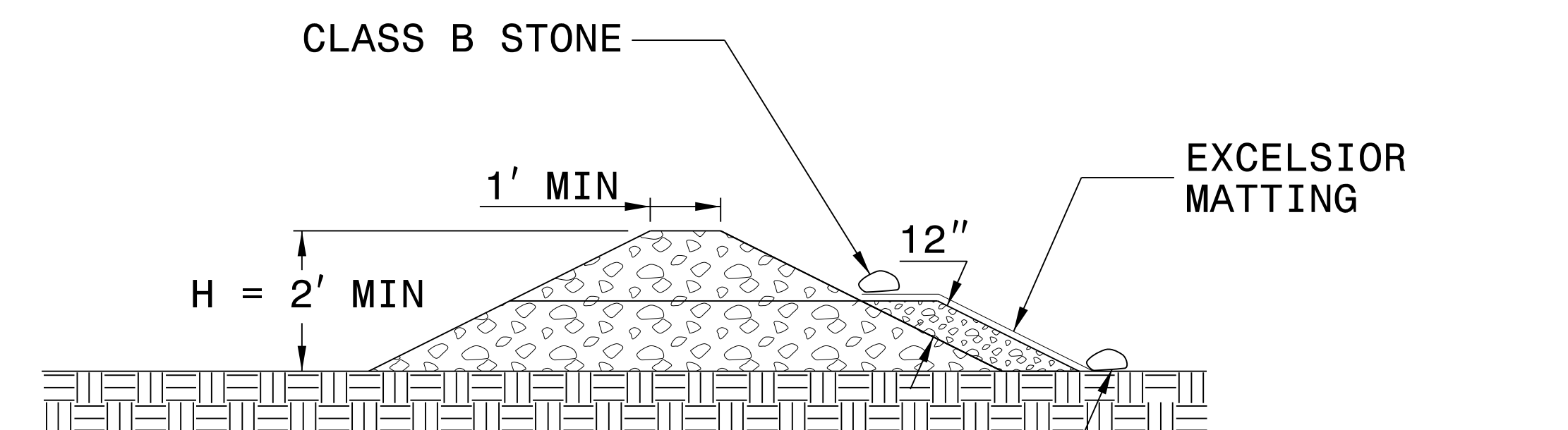
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

12/06/07
1/2/02/171702620_115738_Roadside/CADD/PSN/115738_Rd_C_02B.dwg

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

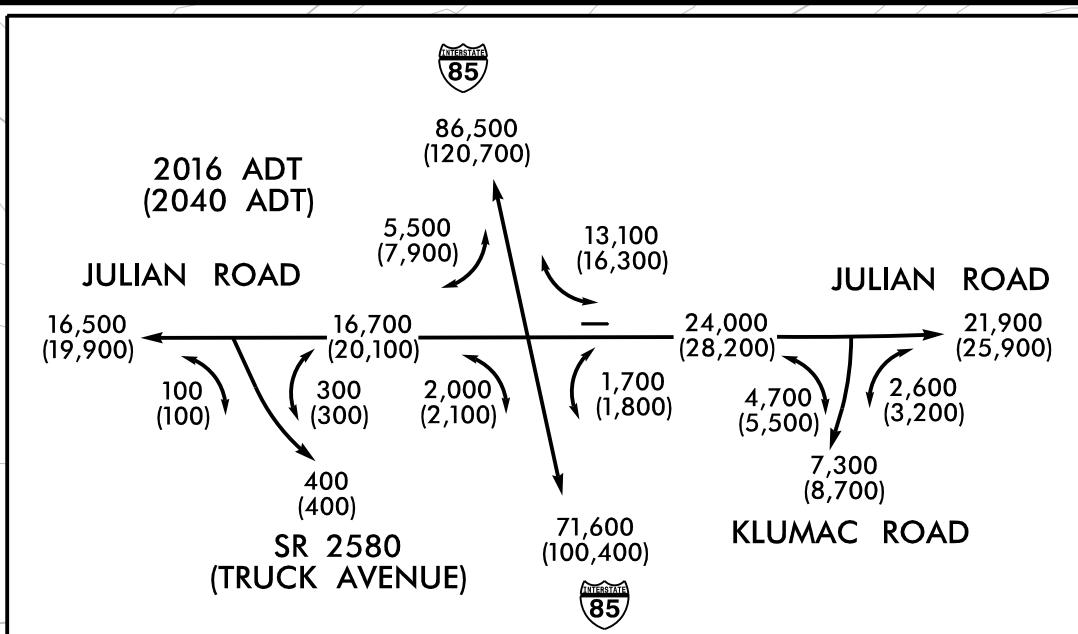
**RELEASE FOR
CONSTRUCTION
DATE: _____**

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 HQW ZONES.



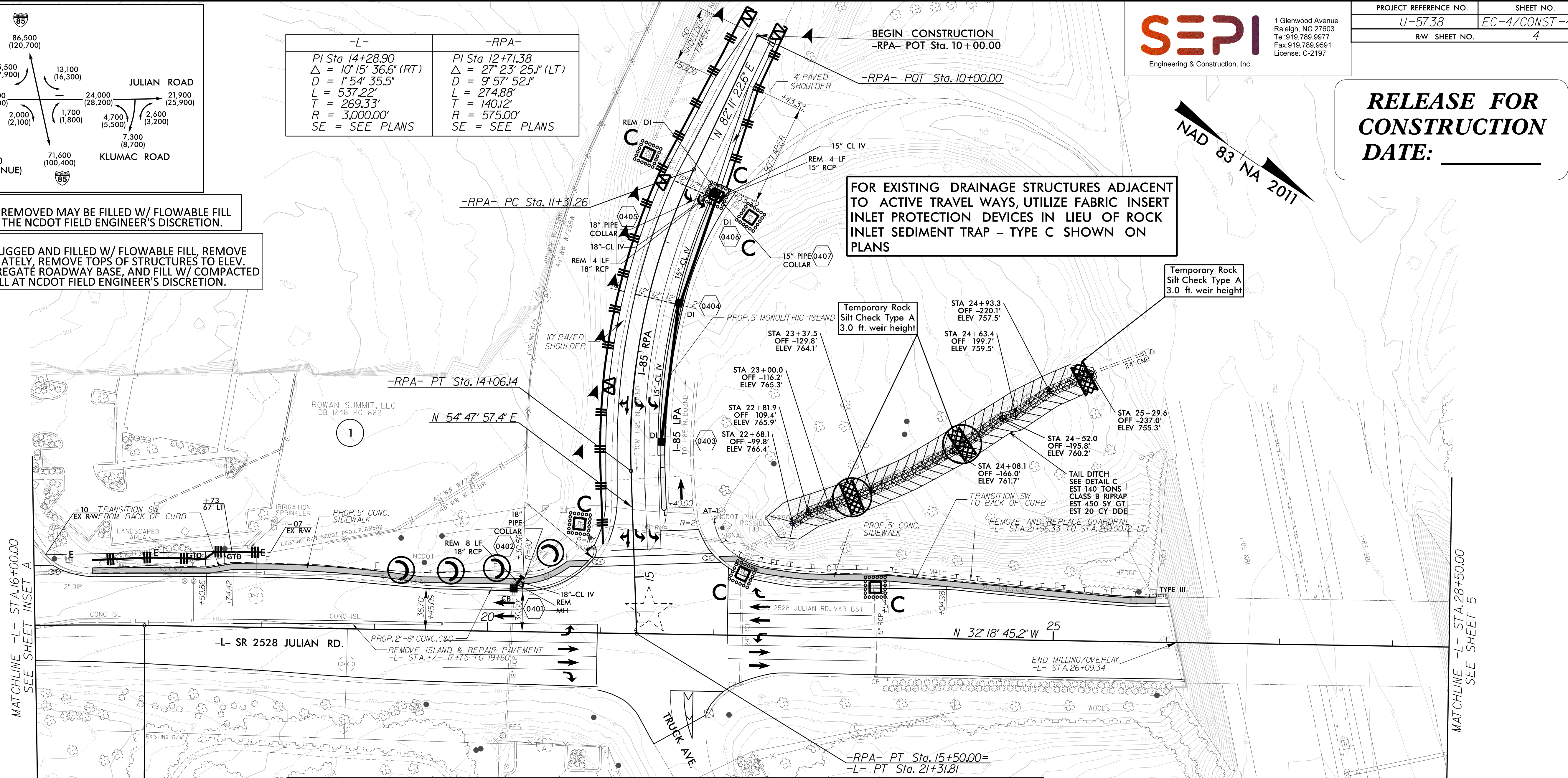
RELEASE FOR CONSTRUCTION DATE: _____



-L-	-RPA-
PI Sta 14+28.90	PI Sta 12+71.38
$\Delta = 10^{\circ}15'36.6''$ (RT)	$\Delta = 27^{\circ}23'25.1''$ (LT)
$D = 154^{\circ}35.5'$	$D = 95^{\circ}57.52''$
$L = 537.22'$	$L = 274.88'$
$T = 269.33'$	$T = 140.12'$
$R = 3,000.00'$	$R = 575.00'$
SE = SEE PLANS	SE = SEE PLANS

NOTE: PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE: IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS

Temporary Rock Silt Check Type A 3.0 ft. weir height

Temporary Rock Silt Check Type A 3.0 ft. weir height

Temporary Rock Silt Check Type A 3.0 ft. weir height

Temporary Rock Silt Check Type A 3.0 ft. weir height

Temporary Rock Silt Check Type A 3.0 ft. weir height

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Temporary Rock Silt Check Type A 3.0 ft. weir height

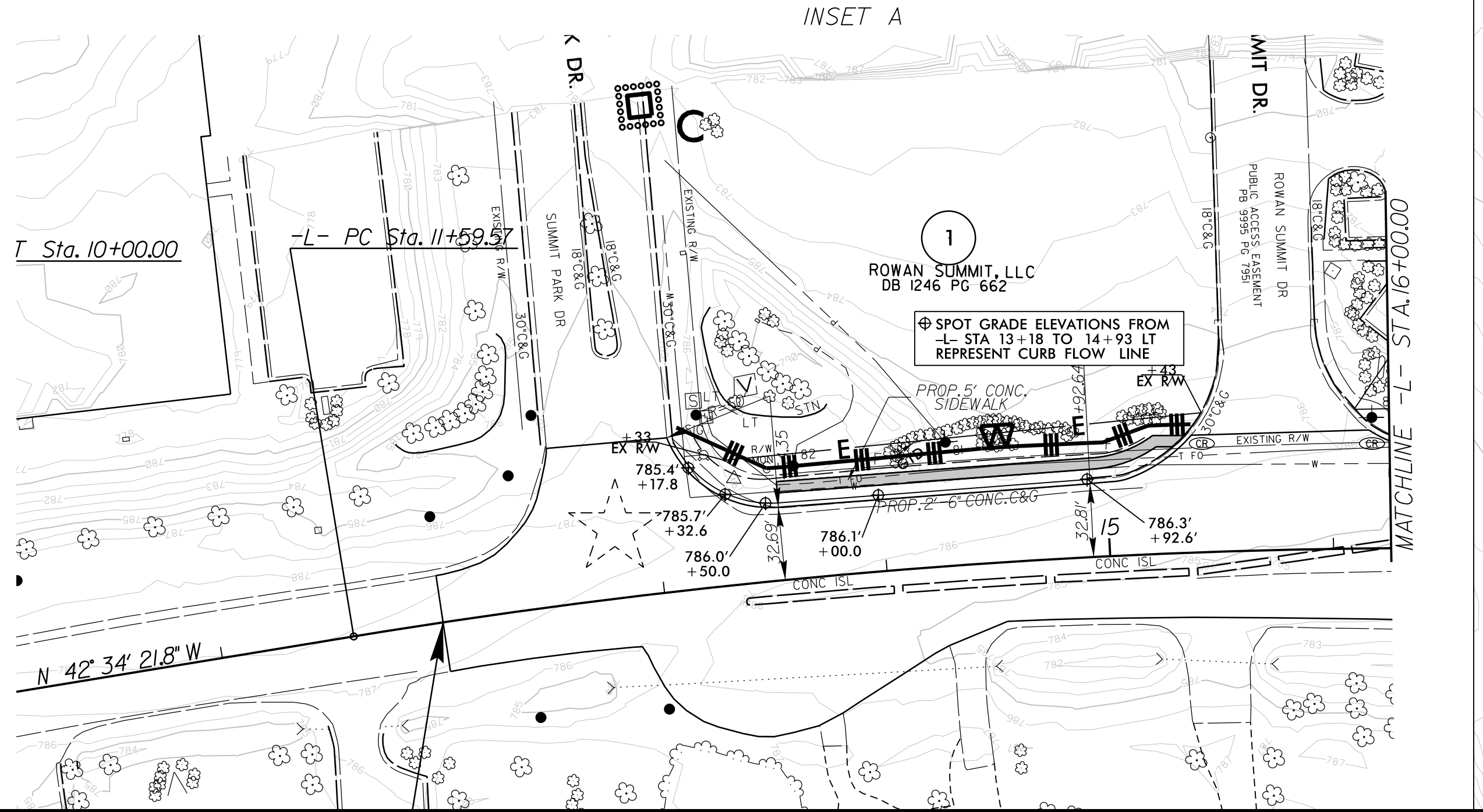
Temporary Rock Silt Check Type A 3.0 ft. weir height

Temporary Rock Silt Check Type A 3.0 ft. weir height

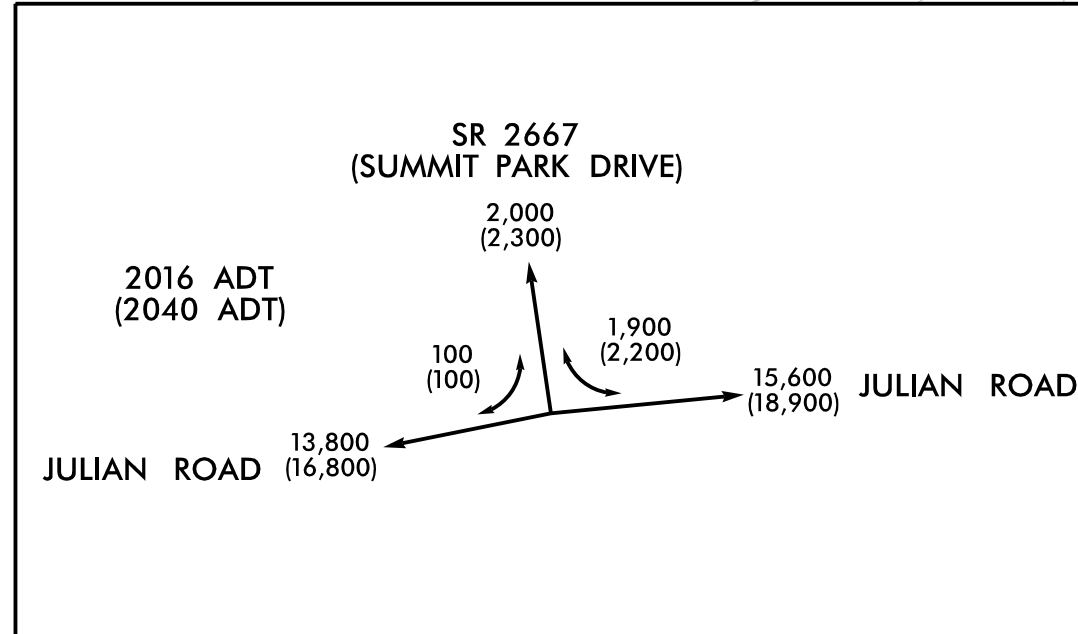
REVISIONS

MATCHLINE -L- STA.16+00.00 SEE SHEET INSET A

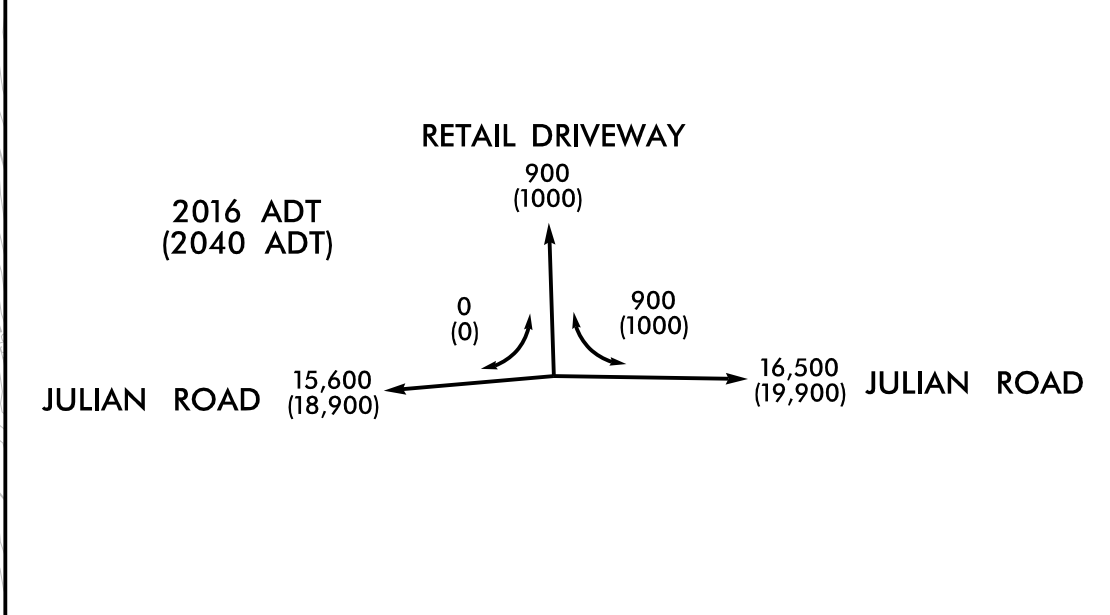
MATCHLINE -L- STA.28+50.00 SEE SHEET 5



STA 22+68.1 TO STA 25+29.6 LT -L- INSTALL PERMANENT DITCH LINING PER DETAIL C AS WORK ALLOWS AND INSTALL MATTING FOR EROSION CONTROL ON ANY DISTURBED AREAS PRIOR TO CONCLUSION OF DAILY CONSTRUCTION ACTIVITIES.



EXISTING TRAFFIC SIGNAL



SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

8/17/19
1/2/2021
171702620 U5738 Roadside CADD\PSH\U4738_Rdy_EC_04.dgn

RELEASE FOR CONSTRUCTION DATE: _____

-L-	-YI-	-YI-
PI Sta 34+64.45	PI Sta 41+53.11	PI Sta 10+96.51
$\Delta = 2' 12" 18.7" (LT)$	$\Delta = 2' 12" 18.7" (RT)$	$\Delta = 18' 36" 24.8" (RT)$
$D = 0' 45' 50.2"$	$D = 0' 45' 50.2"$	$D = 9' 43' 30.0"$
$L = 288.66'$	$L = 288.66'$	$L = 191.33'$
$T = 144.35'$	$T = 144.35'$	$T = 96.51'$
$R = 7,500.00'$	$R = 7,500.00'$	$R = 589.16'$
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

Excavate and Build Proposed Ditch according to Detail D on Roadway Plans from Sta. 34+00 to Sta. 38+90 LT Stabilize with Matting during C&G

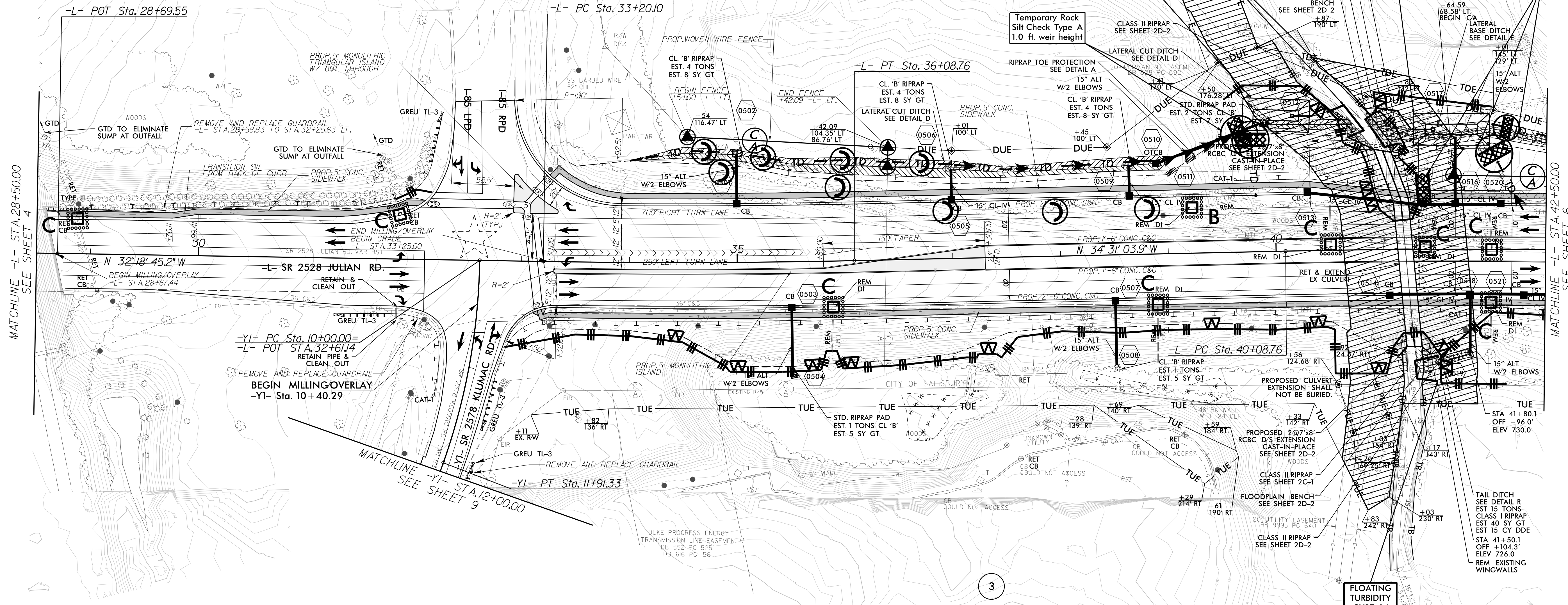
Excavate and Build Proposed Ditch according to Detail E on Roadway Plans from Sta. 41+90 to Sta. 43+00 LT Mat All Exposed Cut Slopes with Temporary Matting as Work Allows during C&G

FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS

62 x 30 x 3
1.5 inch Skimmer
with 1.125 inch Orifice Diameter
7 ft. weir
ID 5.1

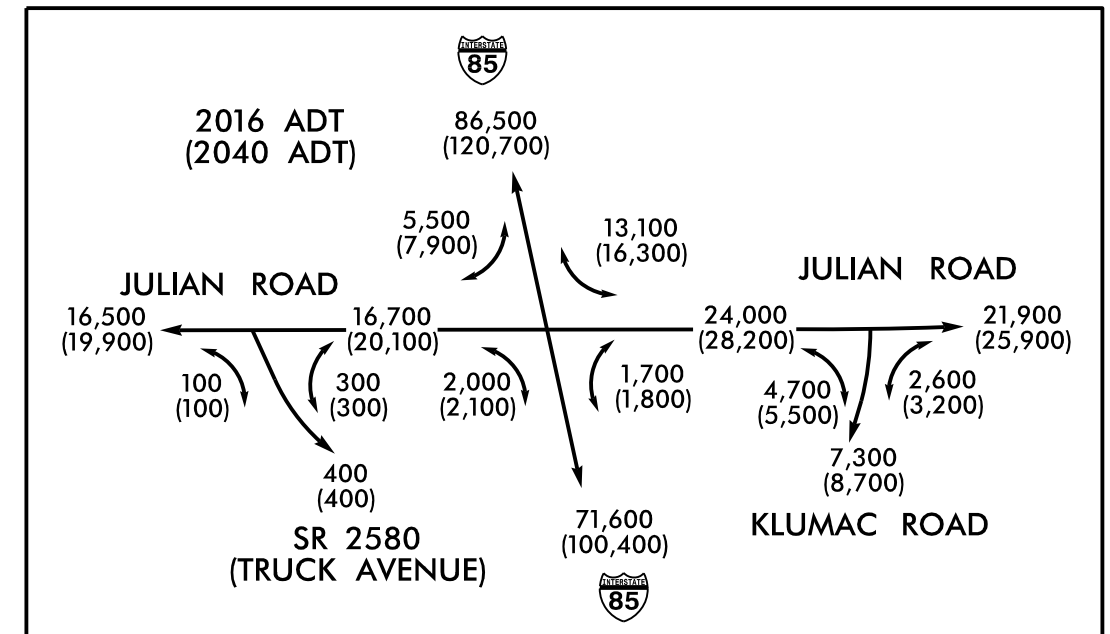
70 x 30 x 3
1.5 inch Skimmer
with 1.25 inch Orifice Diameter
6 ft. weir
ID 5.2

Temporary Rock Silt Check Type A
1.0 ft. weir height



MATCHLINE -L- STA. 28+50.00
SEE SHEET 4

MATCHLINE -L- STA. 42+50.00
SEE SHEET 6



NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.

SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 13 FOR -YI- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
SEE SHEET 2D-2 FOR CULVERT DETAILS
SEE SHEETS C-1 THRU C-?? FOR CULVERT PLANS

8/17/99
1/2/2017 171026220 U5738 Roadside CADD\PSH\JH738_RdJ_EC_05.dgn
Continuation

RELEASE FOR CONSTRUCTION
DATE: _____

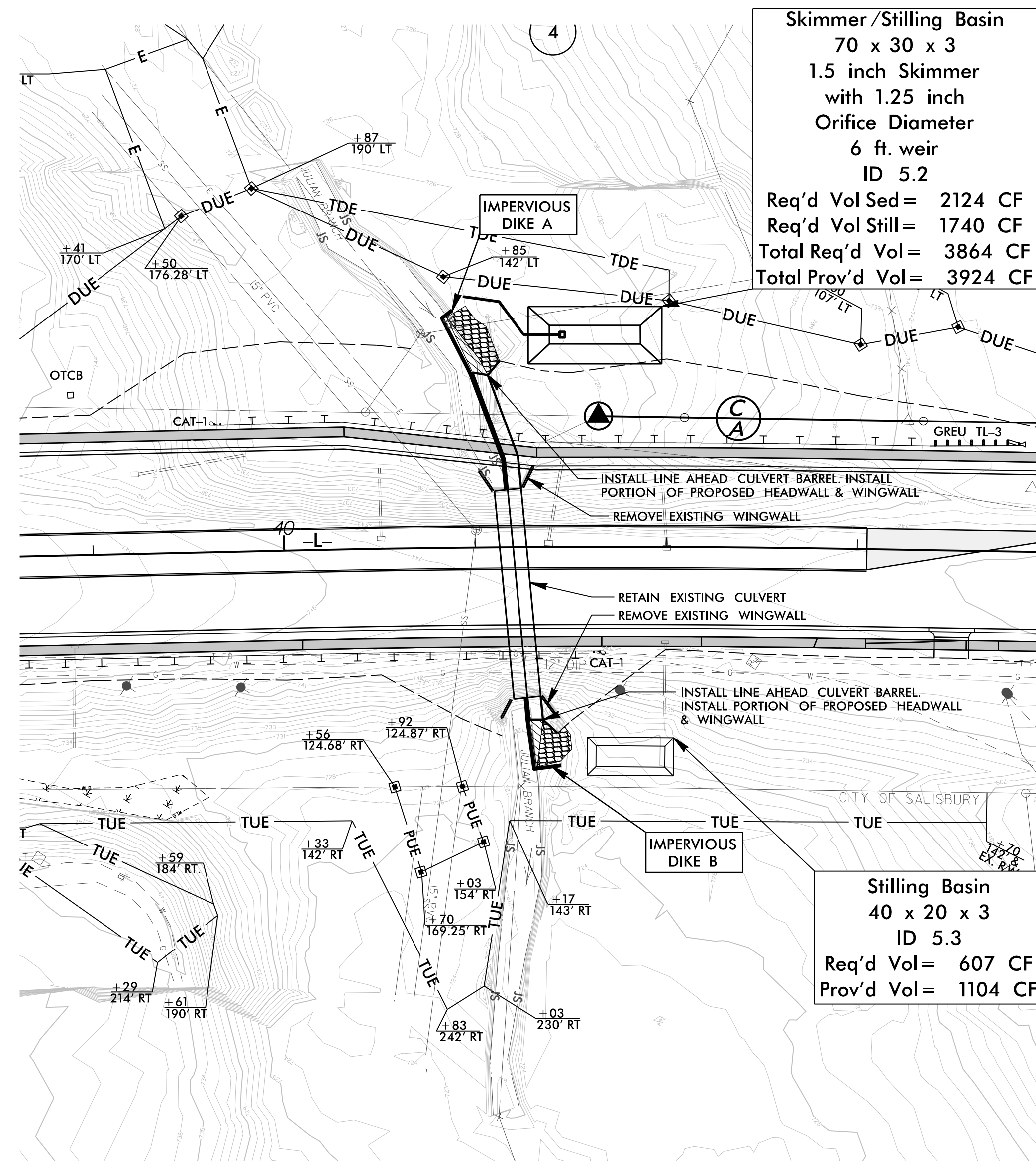
CULVERT CONSTRUCTION SEQUENCE STA. 41+20 -L-

PHASE I

1. CONSTRUCT SKIMMER BASIN #5.2 AND UTILIZE AS STILLING BASIN AS NEEDED. CONSTRUCT STILLING BASIN #5.3.
2. INSTALL IMPERVIOUS DIKES A & B AND ANY PERIMETER EROSION CONTROL DEVICES AS NEEDED.
3. REMOVE EXISTING LINE AHEAD WINGWALLS AT BOTH ENDS & PREPARE PHASE I SECTION OF PROPOSED CULVERT BED.
4. INSTALL LINE AHEAD BARRELS FOR UPSTREAM & DOWNSTREAM CULVERT EXTENSIONS. INSTALL LINE AHEAD SECTIONS OF HEADWALLS AND WINGWALLS ON UPSTREAM AND DOWNSTREAM ENDS AS WORK ALLOWS.
5. COMPLETE THE LINE AHEAD CHANNEL IMPROVEMENTS FOR UPSTREAM AND DOWNSTREAM ENDS OF CHANNEL.
6. REMOVE IMPERVIOUS DIKES A & B.

PHASE II

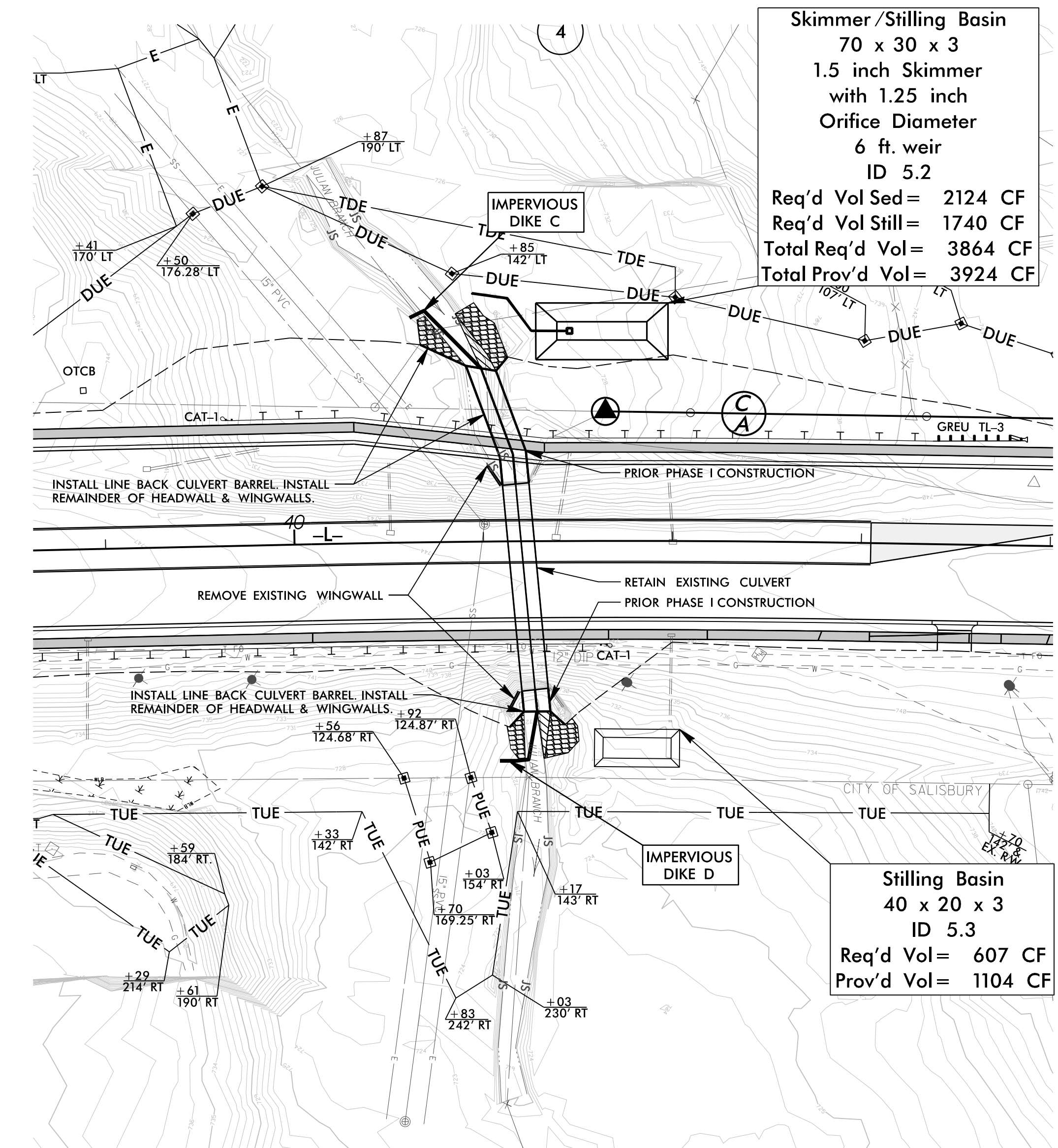
1. INSTALL IMPERVIOUS DIKES C & D.
2. REMOVE REMAINING EXISTING CULVERT WINGWALLS AND PREPARE REMAINDER OF PROPOSED CULVERT BED.
3. INSTALL LINE BACK BARRELS FOR UPSTREAM & DOWNSTREAM CULVERT EXTENSIONS. INSTALL REMAINING HEADWALLS AND WINGWALLS ON UPSTREAM AND DOWNSTREAM END.
4. COMPLETE REMAINING PORTIONS OF CHANNEL IMPROVEMENTS FOR UPSTREAM AND DOWNSTREAM ENDS.
5. REMOVE IMPERVIOUS DIKES C & D.
6. REMOVE STILLING BASIN #5.3. BASIN #5.2 WILL REMAIN FOR DURATION OF ROADWAY PROJECT.
7. STABILIZE ANY DISTURBED AREAS PRIOR TO REMOVAL OF ANY PERIMETER EC DEVICES.
8. COMPLETE PROPOSED ROADWAY SECTION.



Skimmer/Stilling Basin
70 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 5.2
Req'd Vol Sed = 2124 CF
Req'd Vol Still = 1740 CF
Total Req'd Vol = 3864 CF
Total Prov'd Vol = 3924 CF

Stilling Basin
40 x 20 x 3
ID 5.3
Req'd Vol = 607 CF
Prov'd Vol = 1104 CF

Basin ID #5.2	Basin ID #5.3
Upstream Extension	Downstream Extension
Stream Width = 8 ft.	Stream Width = 9.5 ft.
Culvert Length = 65 ft.	Culvert Length = 12 ft.
Depth Water = 0.9 ft.	Depth Water = 0.9 ft.
Depth Undercut = 2 ft.	Depth Undercut = 2 ft.
Req'd Vol. = 1740 CF	Req'd Vol. = 607 CF
Note: 10' added to culv length in eq'n for extensions	



Skimmer/Stilling Basin
70 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 5.2
Req'd Vol Sed = 2124 CF
Req'd Vol Still = 1740 CF
Total Req'd Vol = 3864 CF
Total Prov'd Vol = 3924 CF

Stilling Basin
40 x 20 x 3
ID 5.3
Req'd Vol = 607 CF
Prov'd Vol = 1104 CF

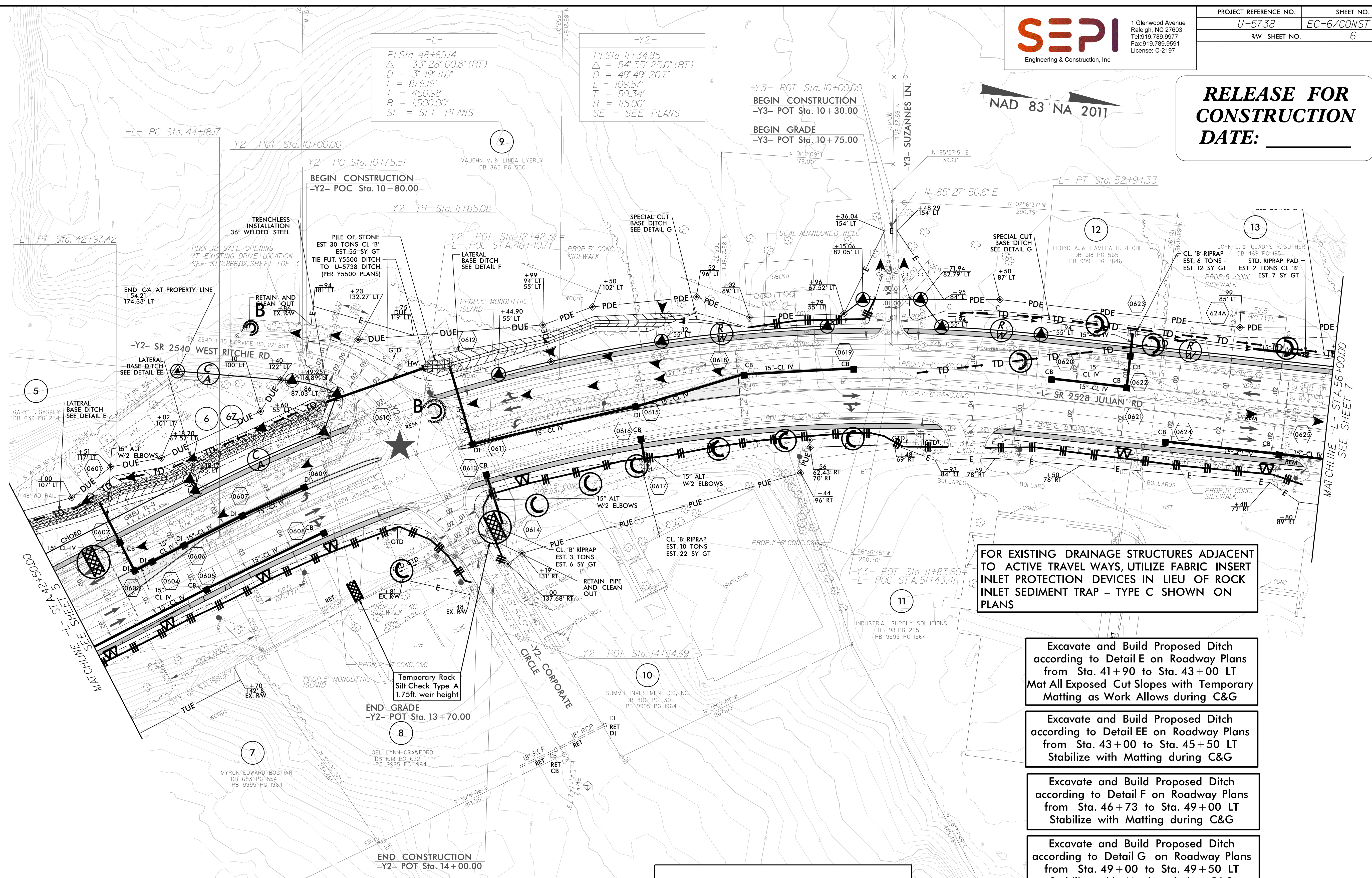
NAD 83 NA 2011

REVISIONS

8/17/99
1/2/2017
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**RELEASE FOR
CONSTRUCTION
DATE: _____**

NAD 83 NA 2011



-L-
PI Sta 48+69.14
Δ = 33° 28' 00.8" (RT)
D = 3' 49' 11.0"
L = 876.16'
T = 450.98'
R = 1,500.00'
SE = SEE PLANS

-Y2-
PI Sta 11+34.85
Δ = 54° 35' 25.0" (RT)
D = 49' 49' 20.7"
L = 109.57'
T = 59.34'
R = 115.00'
SE = SEE PLANS

-Y3- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y3- POT Sta. 10+30.00

BEGIN GRADE
-Y3- POT Sta. 10+75.00

BEGIN CONSTRUCTION
-Y2- POC Sta. 10+80.00

-Y2- PT Sta. 11+85.08

-L- PC Sta. 44+18.17
-Y2- POT Sta. 10+00.00
-Y2- PC Sta. 10+75.51

-Y2- POT Sta. 12+42.37
-L- POC STA. 46+40.71

-L- PT Sta. 52+94.33

-L- PT Sta. 42+97.42

END CA AT PROPERTY LINE
+54.21
174.33' LT

-Y2- SR 2540 WEST RITCHIE RD

FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS

Excavate and Build Proposed Ditch according to Detail E on Roadway Plans from Sta. 41+90 to Sta. 43+00 LT Mat All Exposed Cut Slopes with Temporary Matting as Work Allows during C&G

Excavate and Build Proposed Ditch according to Detail EE on Roadway Plans from Sta. 43+00 to Sta. 45+50 LT Stabilize with Matting during C&G

Excavate and Build Proposed Ditch according to Detail F on Roadway Plans from Sta. 46+73 to Sta. 49+00 LT Stabilize with Matting during C&G

Excavate and Build Proposed Ditch according to Detail G on Roadway Plans from Sta. 49+00 to Sta. 49+50 LT Stabilize with Matting during C&G

Excavate and Build Proposed Ditch according to Detail G on Roadway Plans from Sta. 52+00 to Sta. 56+50 LT Stabilize with Matting during C&G

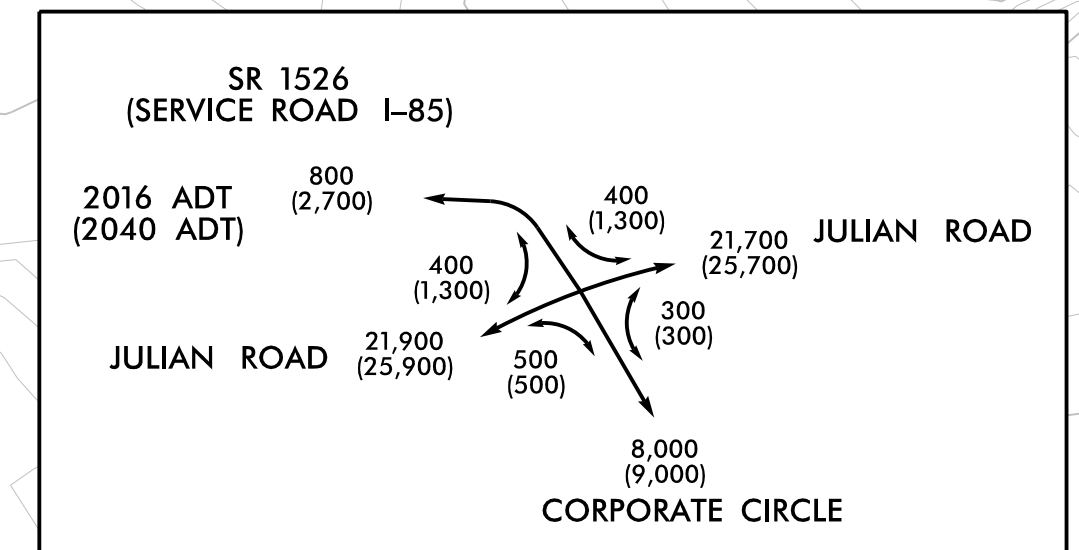
Temporary Rock Silt Check Type A 1.75ft. weir height
END GRADE
-Y2- POT Sta. 13+70.00

END CONSTRUCTION
-Y2- POT Sta. 14+00.00

CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 44+81.2 LT TO STA 53+62.6 LT

NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



PROPOSED TRAFFIC SIGNAL

SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 13 FOR -Y2- PROFILE
SEE SHEET 13 FOR -Y3- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

REVISIONS

8/17/99

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RELEASE FOR CONSTRUCTION DATE: _____

NAD 83 NA 2011

Excavate and Build Proposed Ditch according to Detail H on Roadway Plans from Sta. 56+50 to Sta. 60+25 LT DO NOT INSTALL PERM LINING DURING C&G. Stabilize with TEMP Matting during C&G

Excavate and Build Proposed Ditch according to Detail H on Roadway Plans from Sta. 60+25 to Sta. 67+50 LT DO NOT INSTALL PERM LINING DURING C&G. Stabilize with TEMP Matting during C&G

Excavate and Build Proposed Ditch according to Detail L on Roadway Plans from Sta. 67+50 to Sta. 68+25 LT DO NOT INSTALL PERM LINING DURING C&G. Stabilize with TEMP Matting during C&G

-L-
PI Sta 62+28.38
Δ = 8°45'23.2" (LT)
D = 1'44'10.4"
L = 504.33'
T = 252.66'
R = 3,300.00'
SE = SEE PLANS

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

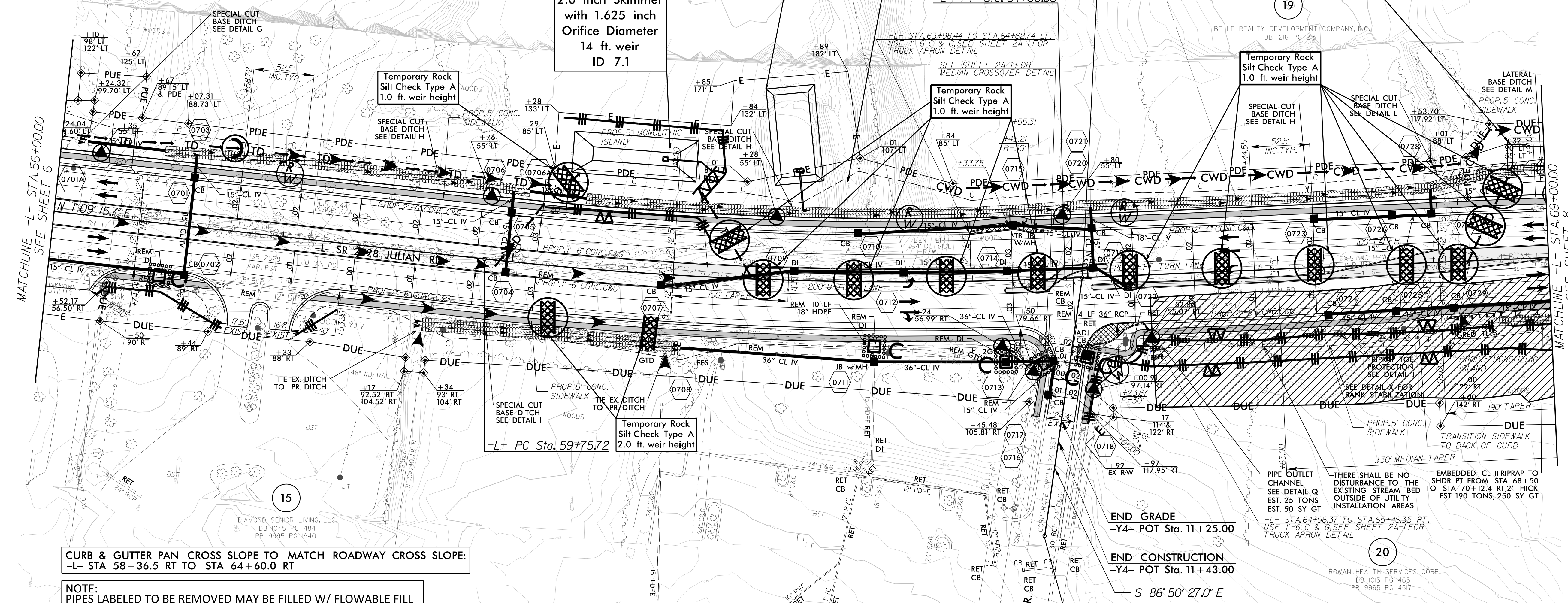
84 x 42 x 3
2.0 inch Skimmer with 1.625 inch Orifice Diameter
13 ft. weir
ID 7.2

Place Matting for Erosion Control on all ditch cut slopes as Work Allows.
-L- Sta. 60+25 to Sta. 68+25 LT
-L- PT Sta. 64+80.06

150 x 26 x 3
2.0 inch Skimmer with 1.625 inch Orifice Diameter
15 ft. weir
ID 8.1

108 x 36 x 3
2.0 inch Skimmer with 1.625 inch Orifice Diameter
14 ft. weir
ID 7.1

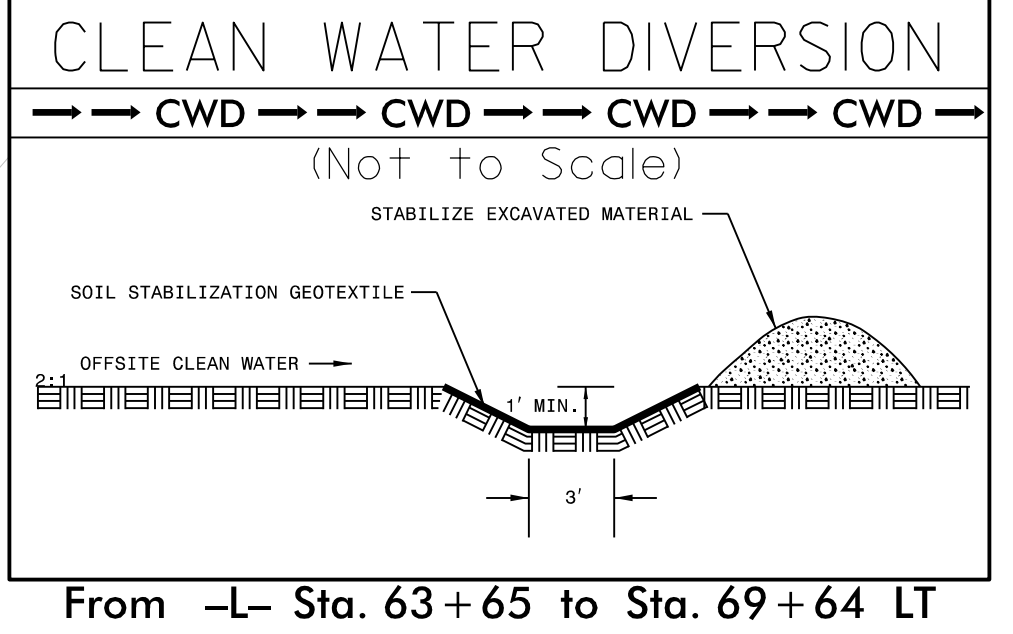
Temporary Rock Silt Check Type A
1.0 ft. weir height



CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 58+36.5 RT TO STA 64+60.0 RT

NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

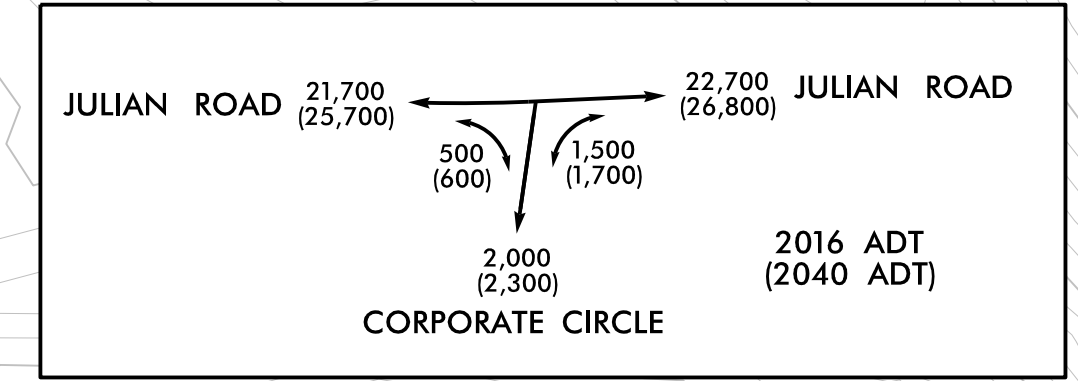
NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



Excavate and Build Proposed Ditch according to Detail I on Roadway Plans from Sta. 59+28 to Sta. 61+50 RT and Tie Into Existing 36" RCP during C&G

Tie Offsite Ditch at Sta. 61+36 Into Proposed Detail I Ditch during C&G

FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS



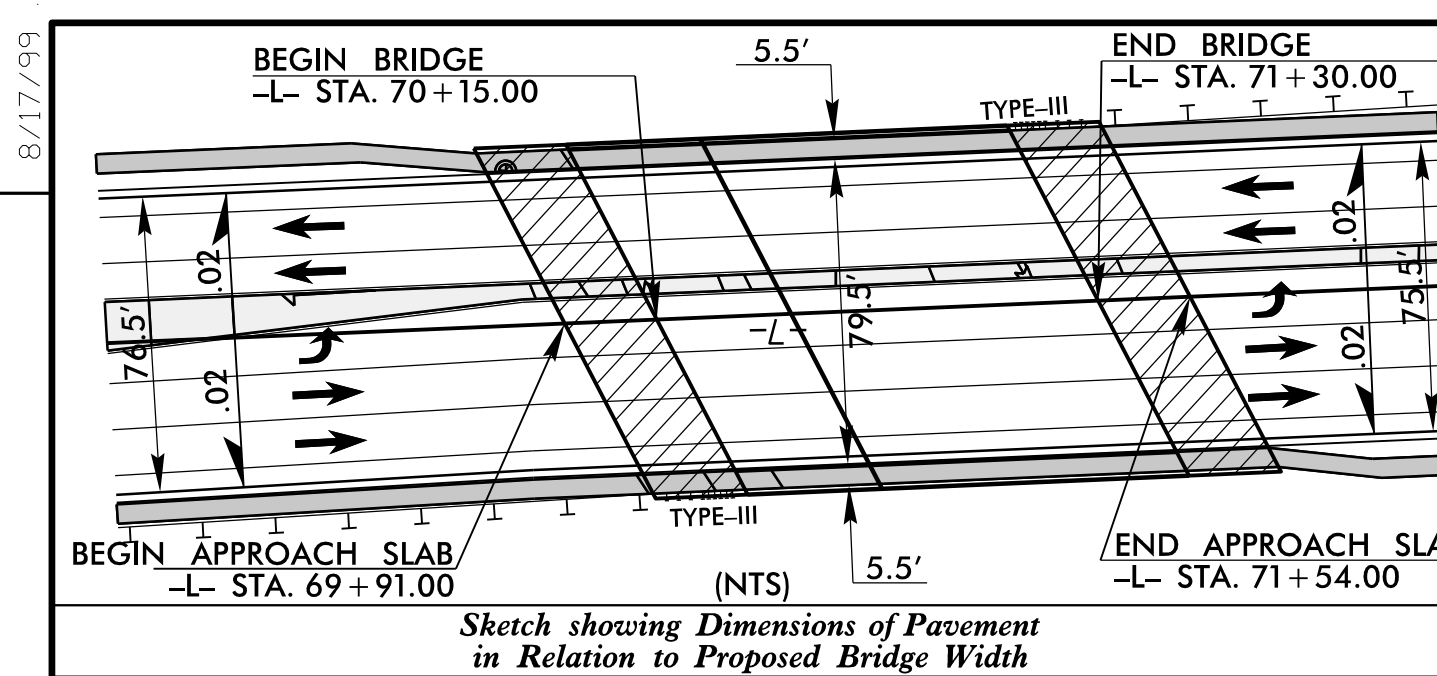
REVISIONS

8/17/09

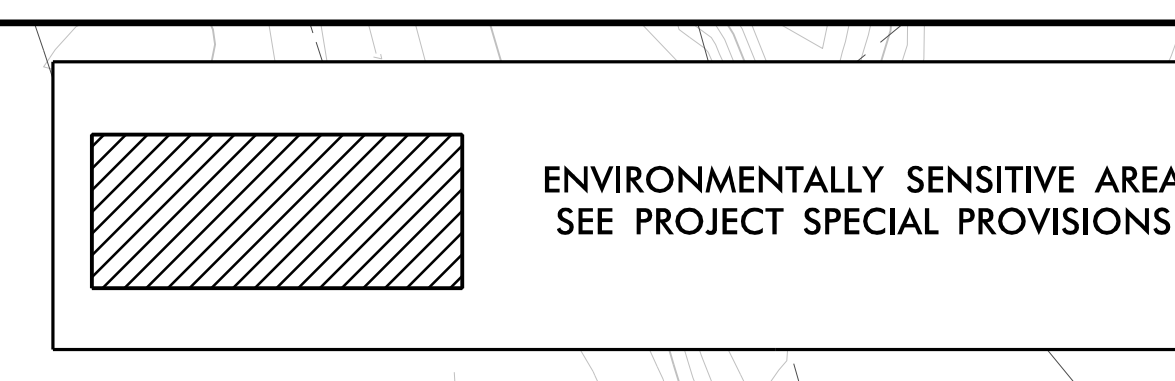
1/2/2017 171702620 U5738 Roadside CADD.PSH.UH738_Rdy_EC_07.dgn

SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y4- PROFILE
SEE SHEET 2D-I FOR DRAINAGE DITCH DETAILS

8/17/19
1/2/2021
U5738/17102620
U5738/Roadside/CADD/PSH/JH/738_Rdy_EC_08.dgn



-Y5-	-Y6-	-Y8-
+88.28 44' 53.2" (LT) Δ = 4' 11" 10.4" (LT) D = 1' 27" 21.7" L = 287.51' T = 143.82' R = 3,935.07'	PI Sta 11+43.82 Δ = 8' 43' 35.1" (LT) D = 9' 20' 01.6" L = 93.49' T = 46.84' R = 613.85'	PI Sta 11+79.45 Δ = 85' 43' 30.8" (RT) D = 8' 51' 04.0" L = 104.73' T = 64.96' R = 70.00'

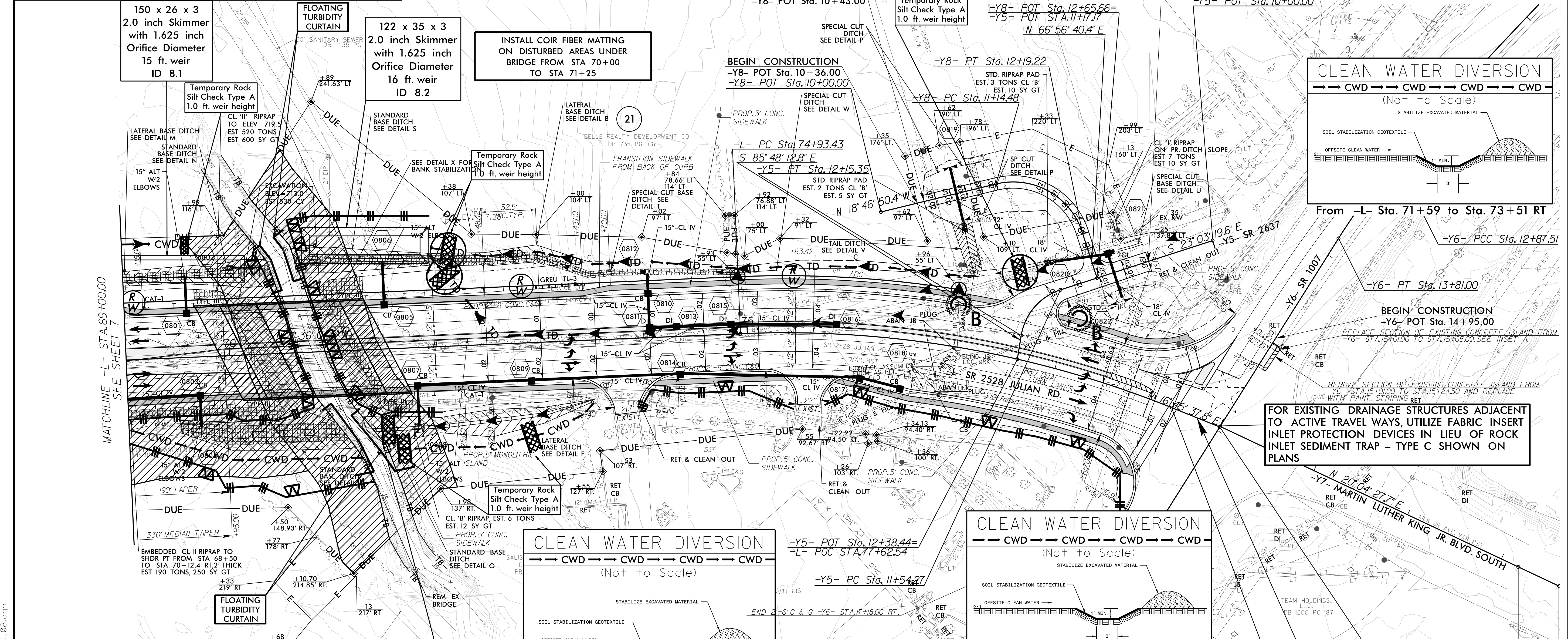


SEPI
Engineering & Construction, Inc.

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: C-2197

PROJECT REFERENCE NO. U-5738	SHEET NO. EC-8/CONST-8
RW SHEET NO. 8	

RELEASE FOR CONSTRUCTION DATE: _____

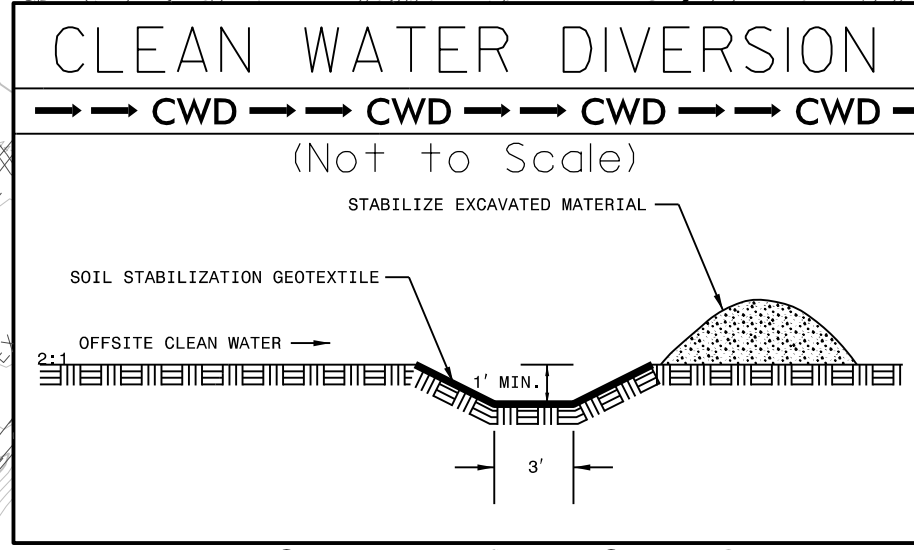


150 x 26 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
15 ft. weir
ID 8.1

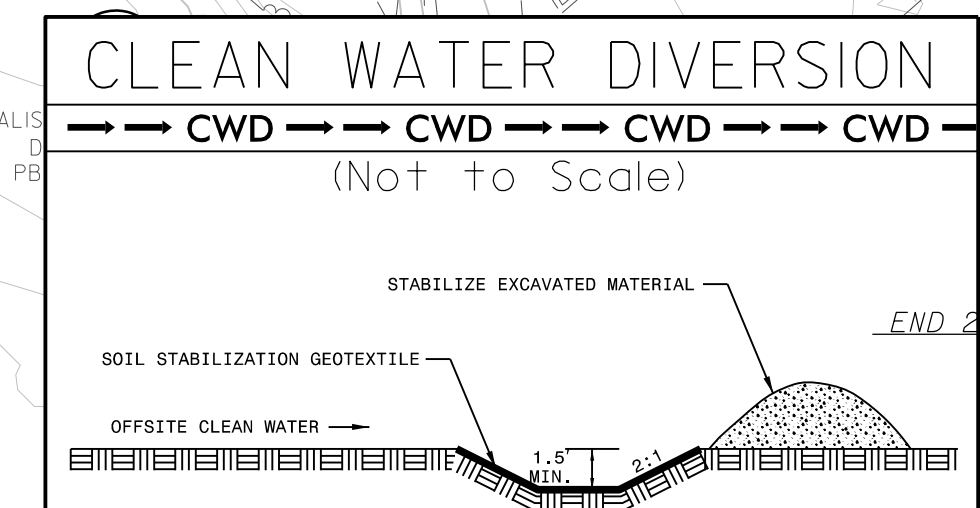
122 x 35 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
16 ft. weir
ID 8.2

INSTALL COIR FIBER MATTING
ON DISTURBED AREAS UNDER
BRIDGE FROM STA 70+00
TO STA 71+25

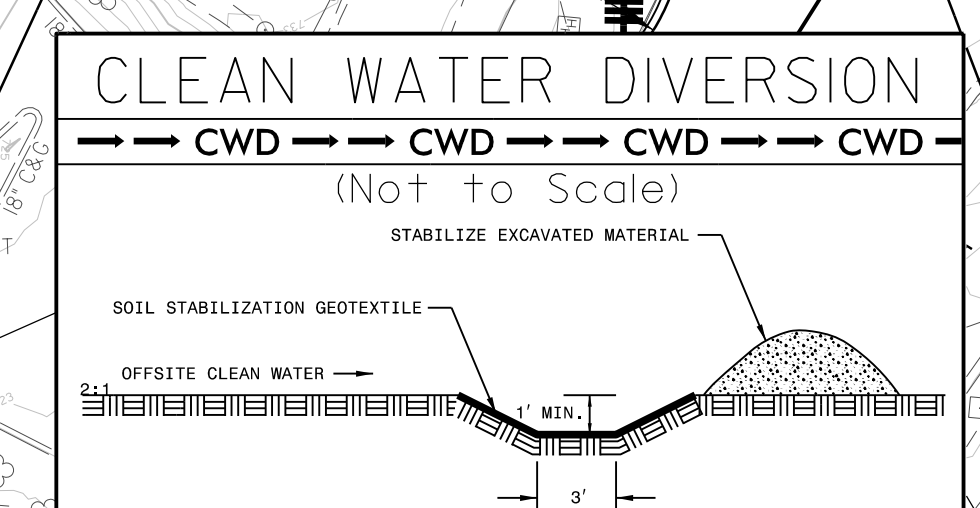
Utilize Special Stilling Basin(s) as Stilling Basin(s)
where Required for Installation of Drilled Shafts.



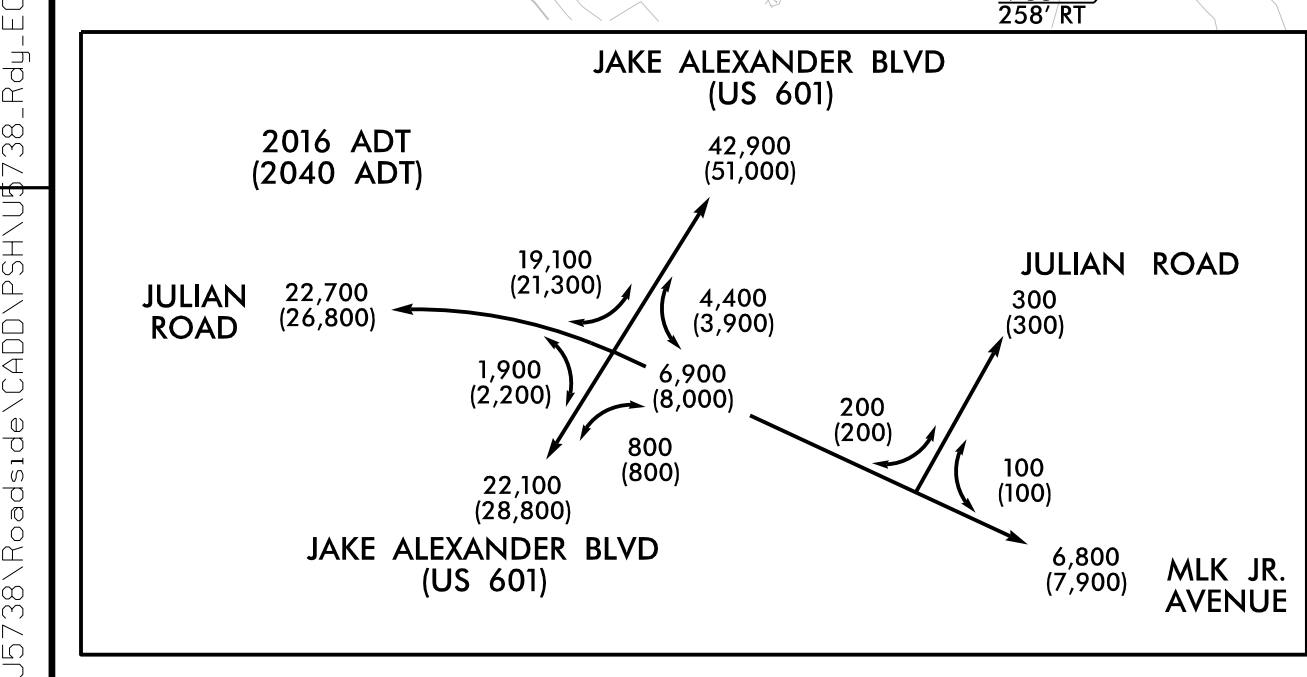
From -L- Sta. 71+59 to Sta. 73+51 RT



From -L- Sta. 69+00 to Sta. 71+20 RT



From -L- Sta. 63+65 to Sta. 69+64 LT



EXISTING TRAFFIC SIGNAL

CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 75+63.4 LT TO STA 79+18.6 LT

NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL
AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE
STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV.
OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED
ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.

Excavate and Build Proposed Ditch
according to Detail N on Roadway Plans
from Sta. 70+00 to Sta. 70+45 LT
Mat All Exposed Cut Slopes with Temporary
Matting as Work Allows during C&G

Excavate and Build Proposed Ditch
according to Detail K on Roadway Plans
from Sta. 69+50 to Sta. 71+15 RT
Mat All Exposed Cut Slopes with Temporary
Matting as Work Allows during C&G

Excavate and Build Proposed Ditch
according to Detail S on Roadway Plans
from Sta. 70+45 to Sta. 71+50 LT
Stabilize with Matting during C&G

Excavate and Build Proposed Ditch
according to Detail B on Roadway Plans
from Sta. 71+50 to Sta. 73+00 LT
Stabilize with Matting during C&G.

Excavate and Build Proposed Ditch
according to Detail T on Roadway Plans
from Sta. 73+00 to Sta. 75+00 LT
Stabilize with Matting during C&G

Excavate and Build Proposed Ditch
according to Detail P on Roadway Plans
from Sta. 75+00 to Sta. 77+14.7 LT
Stabilize with Matting during C&G

Excavate and Build Proposed Ditch
according to Detail O on Roadway Plans
from Sta. 71+32 to Sta. 71+50 RT
Stabilize with Matting during C&G

Excavate and Build Proposed Ditch
according to Detail P on Roadway Plans
from Sta. 75+00 to Sta. 77+14.7 LT
Stabilize with Matting during C&G

SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y5- PROFILE
SEE SHEET 14 FOR -Y8- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

END TIP PROJECT U-5738
-L- POT STA. 79+45.00

END CONSTRUCTION
-Y6- POT Sta. 17+18.00

-Y7- POT Sta. 13+61.64

-L- PT Sta. 79+18.63

-Y6- POT Sta. 15+95.97 =
-L- PT STA. 79+68.82

BEGIN CONSTRUCTION
-Y6- POT Sta. 14+95.00

REPLACE SECTION OF EXISTING CONCRETE ISLAND FROM
-Y6- STA. 15+00.00 TO STA. 15+08.00. SEE 'INSET A'.

REMOVE SECTION OF EXISTING CONCRETE ISLAND FROM
-Y6- STA. 15+00.00 TO STA. 15+24.50 AND REPLACE
CONC. WITH PAINT STRIPING RET.

FOR EXISTING DRAINAGE STRUCTURES ADJACENT
TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT
INLET PROTECTION DEVICES IN LIEU OF ROCK
INLET SEDIMENT TRAP - TYPE C SHOWN ON
PLANS

-Y6- PT Sta. 13+81.00

-Y6- PCC Sta. 12+87.51

From -L- Sta. 71+59 to Sta. 73+51 RT

CLEAN WATER DIVERSION

--- CWD --- CWD --- CWD --- CWD ---

(Not to Scale)

STABILIZE EXCAVATED MATERIAL

SOIL STABILIZATION GEOTEXTILE

OFFSITE CLEAN WATER

From -L- Sta. 71+59 to Sta. 73+51 RT

-Y6- PCC Sta. 12+87.51

-Y6- PT Sta. 13+81.00

BEGIN CONSTRUCTION
-Y6- POT Sta. 14+95.00

REPLACE SECTION OF EXISTING CONCRETE ISLAND FROM
-Y6- STA. 15+00.00 TO STA. 15+08.00. SEE 'INSET A'.

REMOVE SECTION OF EXISTING CONCRETE ISLAND FROM
-Y6- STA. 15+00.00 TO STA. 15+24.50 AND REPLACE
CONC. WITH PAINT STRIPING RET.

FOR EXISTING DRAINAGE STRUCTURES ADJACENT
TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT
INLET PROTECTION DEVICES IN LIEU OF ROCK
INLET SEDIMENT TRAP - TYPE C SHOWN ON
PLANS

-Y6- PT Sta. 13+81.00

-Y6- PCC Sta. 12+87.51

From -L- Sta. 71+59 to Sta. 73+51 RT

CLEAN WATER DIVERSION

--- CWD --- CWD --- CWD --- CWD ---

(Not to Scale)

STABILIZE EXCAVATED MATERIAL

SOIL STABILIZATION GEOTEXTILE

OFFSITE CLEAN WATER

From -L- Sta. 63+65 to Sta. 69+64 LT

-Y6- POT Sta. 15+95.97 =
-L- PT STA. 79+68.82

END TIP PROJECT U-5738
-L- POT STA. 79+45.00

-L- PT Sta. 79+18.63

END CONSTRUCTION
-Y6- POT Sta. 17+18.00

-Y7- POT Sta. 13+61.64

Excavate and Build Proposed Ditch
according to Detail P on Roadway Plans
from Sta. 75+00 to Sta. 77+14.7 LT
Stabilize with Matting during C&G

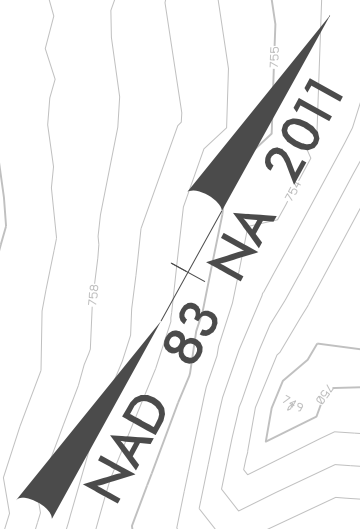
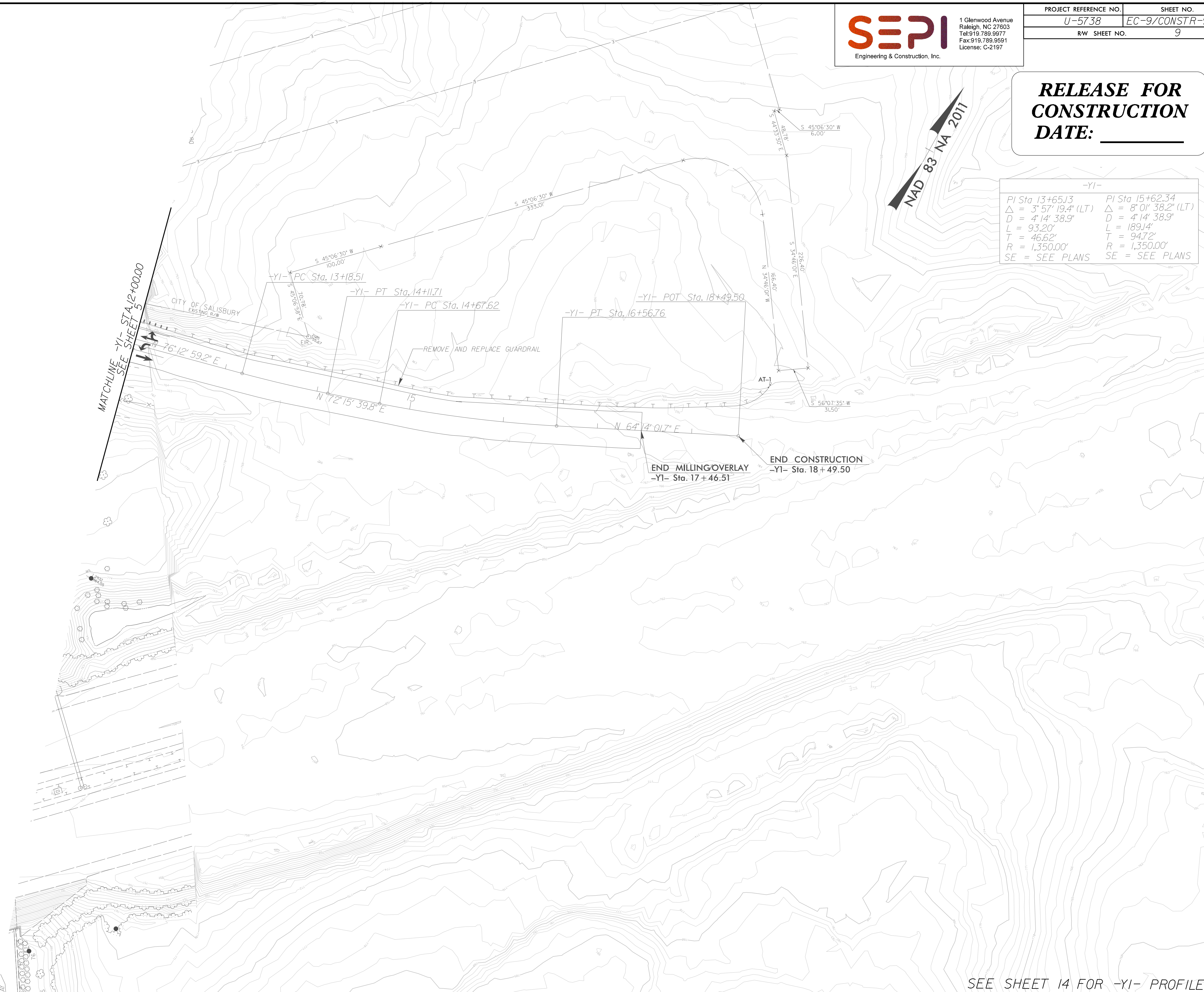


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License: C-2197

PROJECT REFERENCE NO.	SHEET NO.
U-5738	EC-9/CONSTR-9
RW SHEET NO.	9

**RELEASE FOR
CONSTRUCTION
DATE: _____**

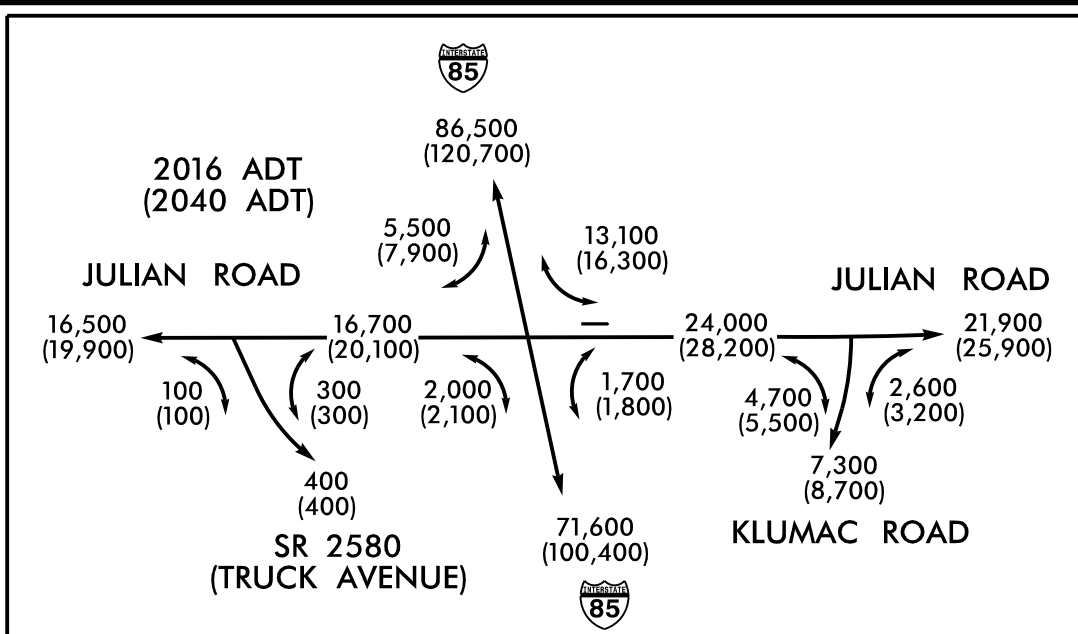
-YI-	
PI Sta 13+65.13	PI Sta 15+62.34
$\Delta = 3^{\circ} 57' 19.4''$ (LT)	$\Delta = 8^{\circ} 01' 38.2''$ (LT)
D = 4' 14" 38.9"	D = 4' 14" 38.9"
L = 93.20'	L = 189.14'
T = 46.62'	T = 94.72'
R = 1,350.00'	R = 1,350.00'
SE = SEE PLANS	SE = SEE PLANS



SEE SHEET 14 FOR -YI- PROFILE



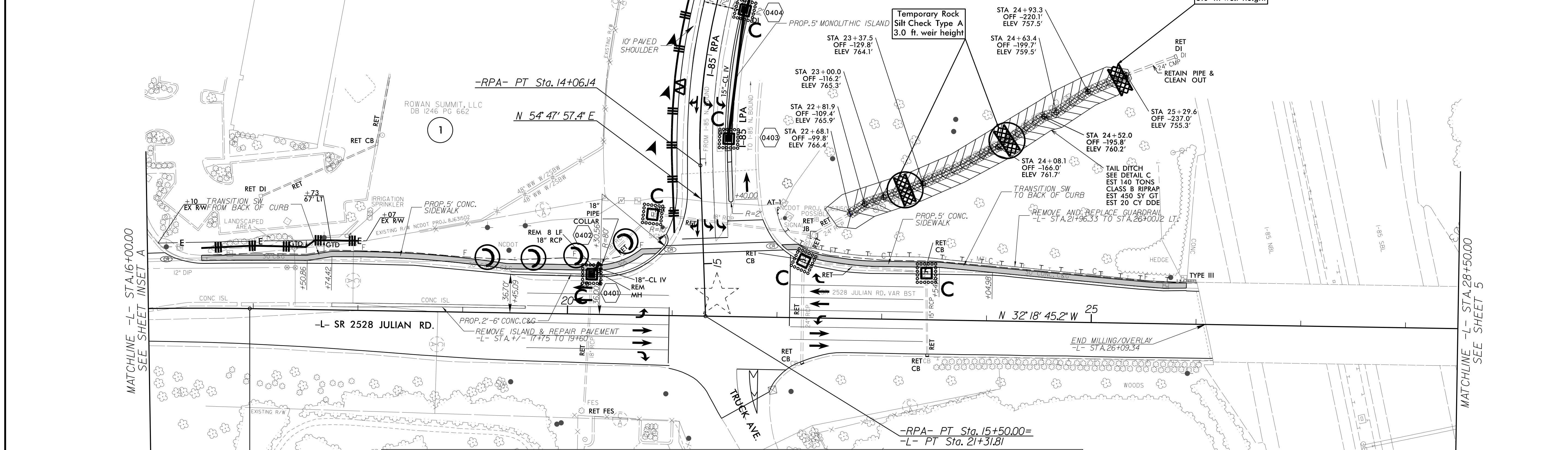
RELEASE FOR CONSTRUCTION DATE: _____



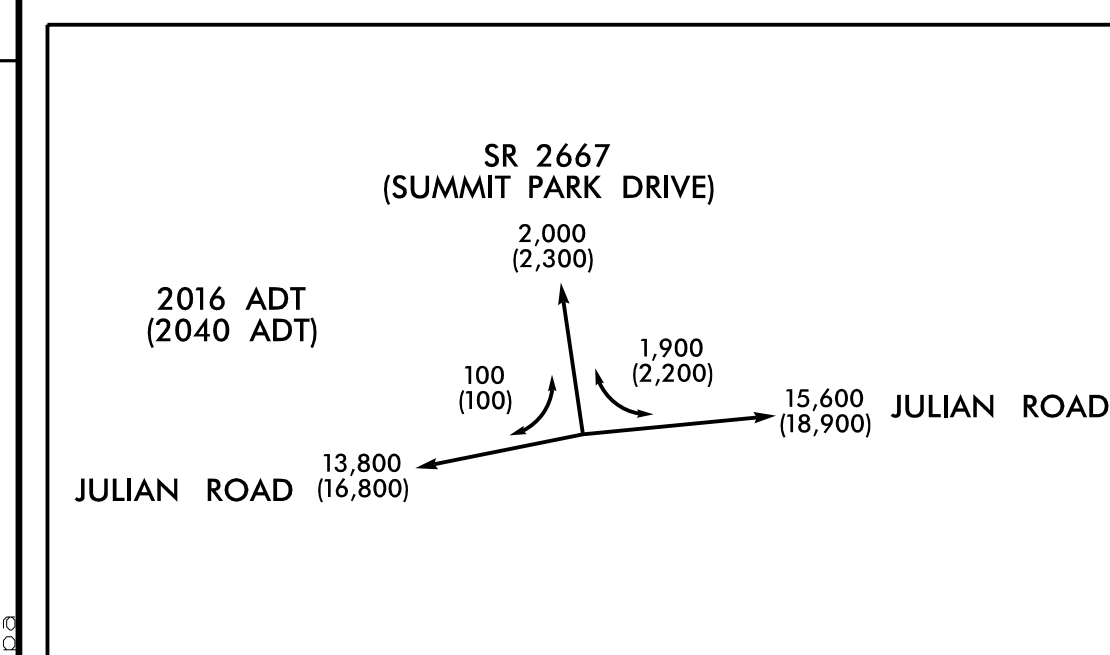
-L-	-RPA-
PI Sta 14+28.90	PI Sta 12+71.38
$\Delta = 10^\circ 15' 36.6''$ (RT)	$\Delta = 27^\circ 23' 25.1''$ (LT)
$D = 154' 35.5''$	$D = 9' 57' 52.1''$
$L = 537.22'$	$L = 274.88'$
$T = 269.33'$	$T = 140.12'$
$R = 3,000.00'$	$R = 575.00'$
SE = SEE PLANS	SE = SEE PLANS

NOTE: PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

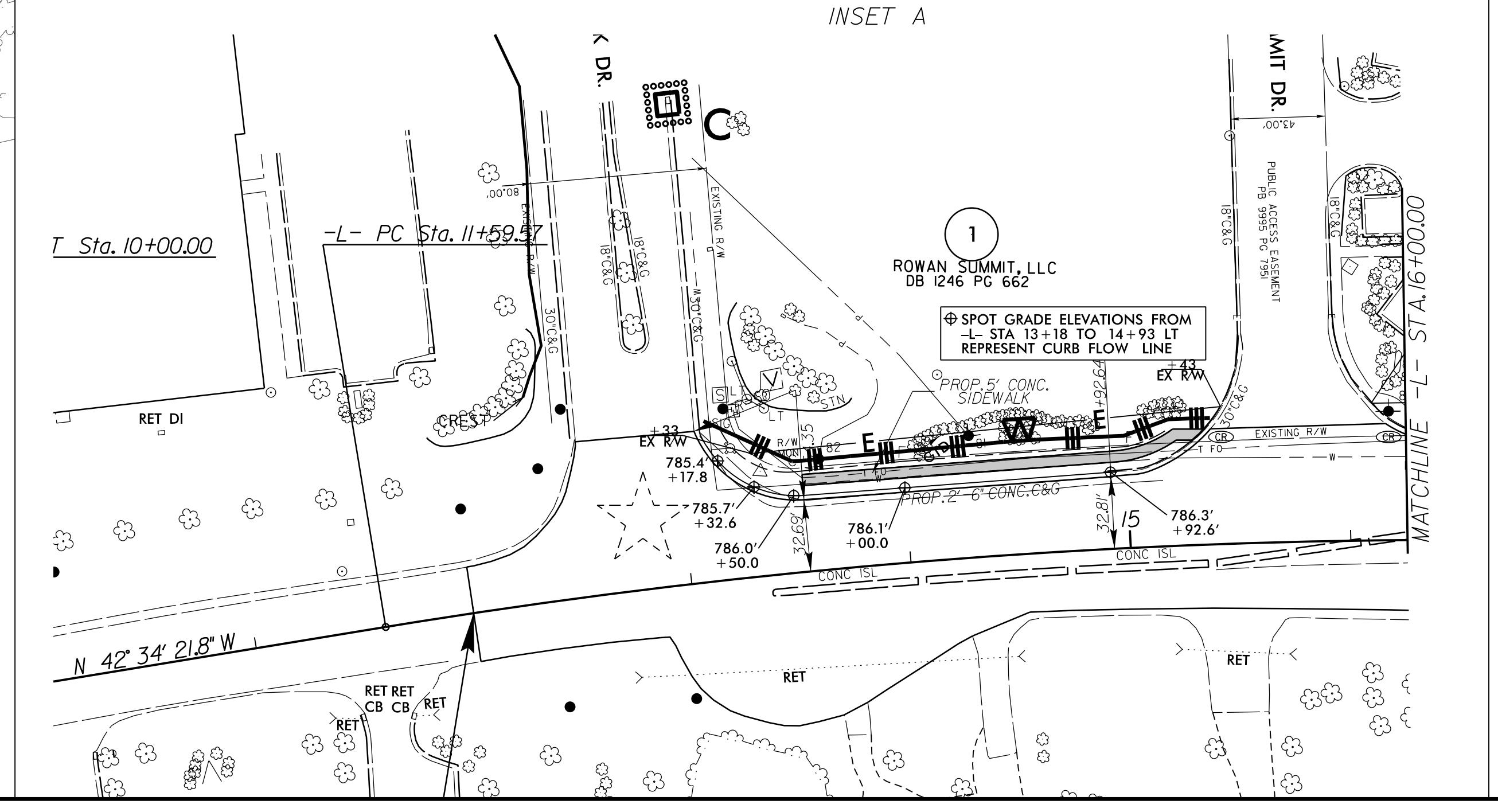
NOTE: IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



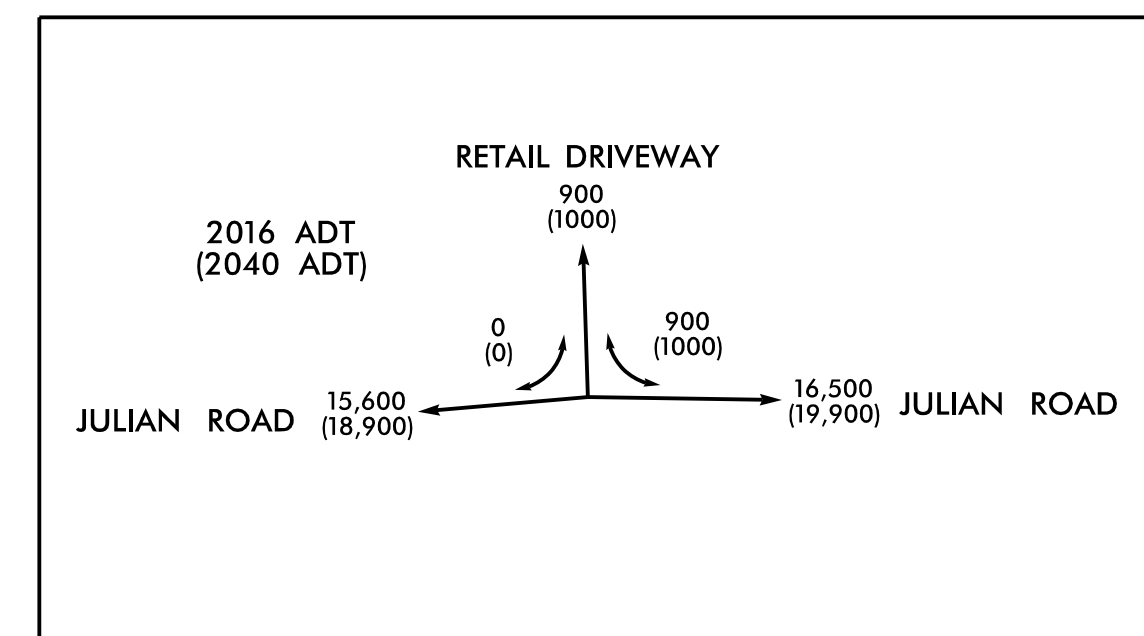
REVISIONS



EXISTING TRAFFIC SIGNAL



STA 22+68.1 TO STA 25+29.6 LT -L- INSTALL PERMANENT DITCH LINING PER DETAIL C AS WORK ALLOWS AND INSTALL MATTING FOR EROSION CONTROL ON ANY DISTURBED AREAS PRIOR TO CONCLUSION OF DAILY CONSTRUCTION ACTIVITIES.



SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

8/17/19 U:\2019\17102620_U5738\Roadside\CADD\PSHU\U5738_Rdy_EC_10.dgn

RELEASE FOR CONSTRUCTION DATE: _____

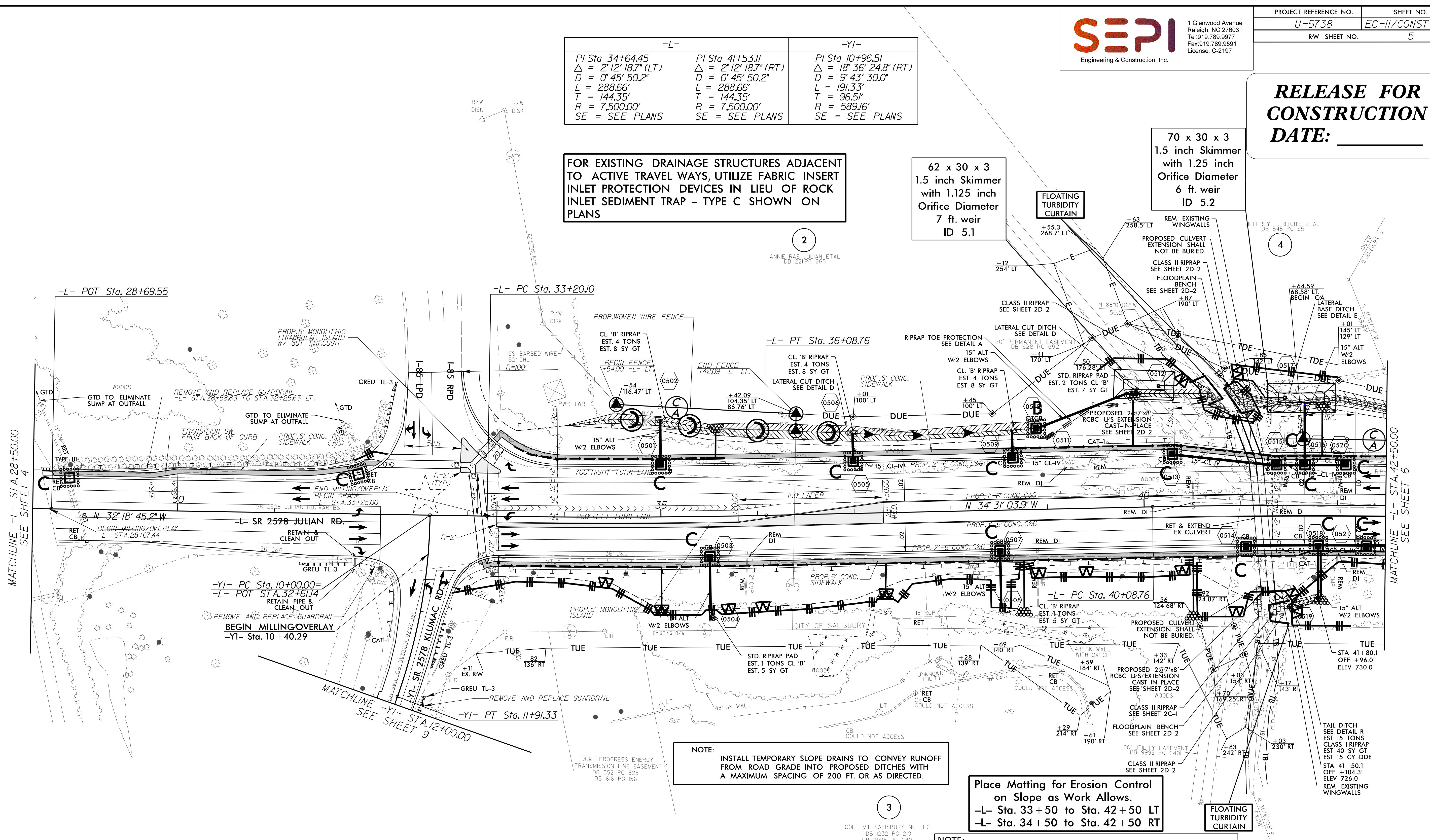
-L-		-YI-	
PI Sta 34+64.45	PI Sta 41+53.11	PI Sta 10+96.51	
$\Delta = 2' 12" 18.7" (LT)$	$\Delta = 2' 12" 18.7" (RT)$	$\Delta = 18' 36" 24.8" (RT)$	
$D = 0' 45" 50.2"$	$D = 0' 45" 50.2"$	$D = 9' 43" 30.0"$	
$L = 288.66'$	$L = 288.66'$	$L = 191.33'$	
$T = 144.35'$	$T = 144.35'$	$T = 96.51'$	
$R = 7,500.00'$	$R = 7,500.00'$	$R = 589.16'$	
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS	

FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS

62 x 30 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
ID 5.1

70 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 5.2

8/17/99
1/2/2017 171026220 U5738 Roadside CADD\PSH\U5738_Rdwy_EC_11.dgn
Continuation

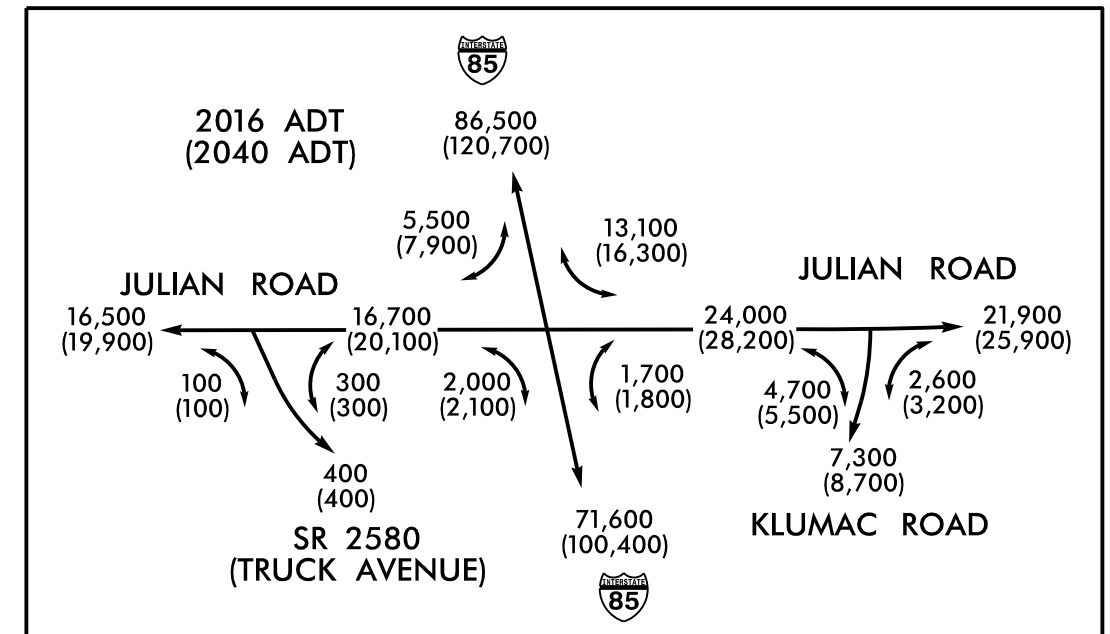


NOTE: INSTALL TEMPORARY SLOPE DRAINS TO CONVEY RUNOFF FROM ROAD GRADE INTO PROPOSED DITCHES WITH A MAXIMUM SPACING OF 200 FT. OR AS DIRECTED.

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 33+50 to Sta. 42+50 LT
-L- Sta. 34+50 to Sta. 42+50 RT

NOTE: PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE: IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



EXISTING TRAFFIC SIGNAL

SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 13 FOR -YI- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
SEE SHEET 2D-2 FOR CULVERT DETAILS
SEE SHEETS C-1 THRU C-?? FOR CULVERT PLANS

RELEASE FOR CONSTRUCTION DATE: _____

NAD 83 NA 2011

-L-
PI Sta 48+69.14
Δ = 33° 28' 00.8" (RT)
D = 3' 49' 11.0"
L = 876.16'
T = 450.98'
R = 1,500.00'
SE = SEE PLANS

-Y2-
PI Sta 11+34.85
Δ = 54° 35' 25.0" (RT)
D = 49' 49' 20.7"
L = 109.57'
T = 59.34'
R = 115.00'
SE = SEE PLANS

-Y3- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y3- POT Sta. 10+30.00

BEGIN GRADE
-Y3- POT Sta. 10+75.00

BEGIN CONSTRUCTION
-Y2- POC Sta. 10+80.00

Temporary Rock Silt Check Type A
2.25 ft. weir height
PILE OF STONE
EST 30 TONS CL 'B'
EST 55 SY GT
TIE FUT. Y5500 DITCH TO U-5738 DITCH (PER Y5500 PLANS)

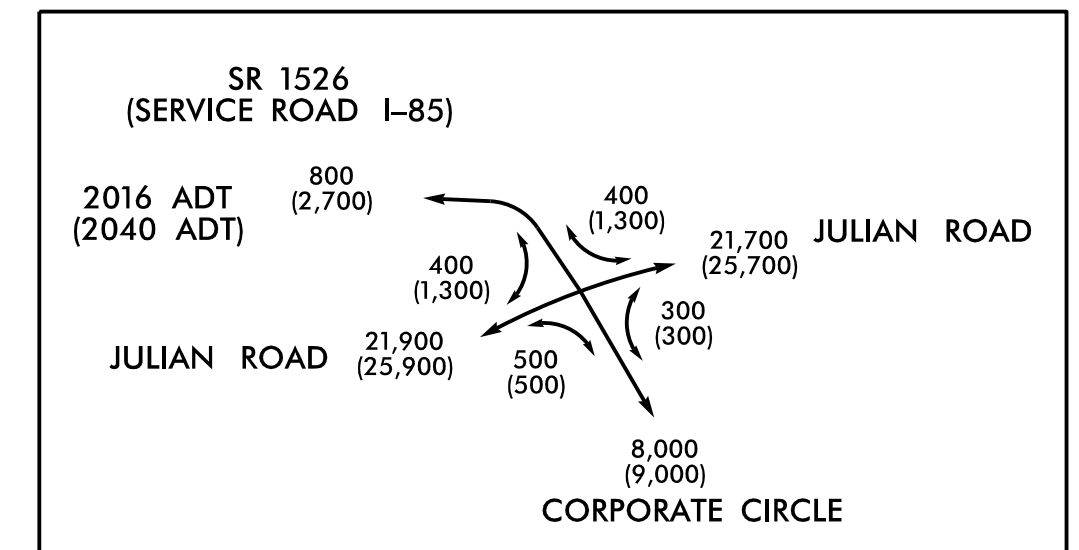
FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 42+50 to Sta. 45+80 RT
-L- Sta. 42+50 to Sta. 50+00 LT

CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 44+81.2 LT TO STA 53+62.6 LT

NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 13 FOR -Y2- PROFILE
SEE SHEET 13 FOR -Y3- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

★ PROPOSED TRAFFIC SIGNAL

REVISIONS

8/17/99
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RELEASE FOR CONSTRUCTION DATE: _____

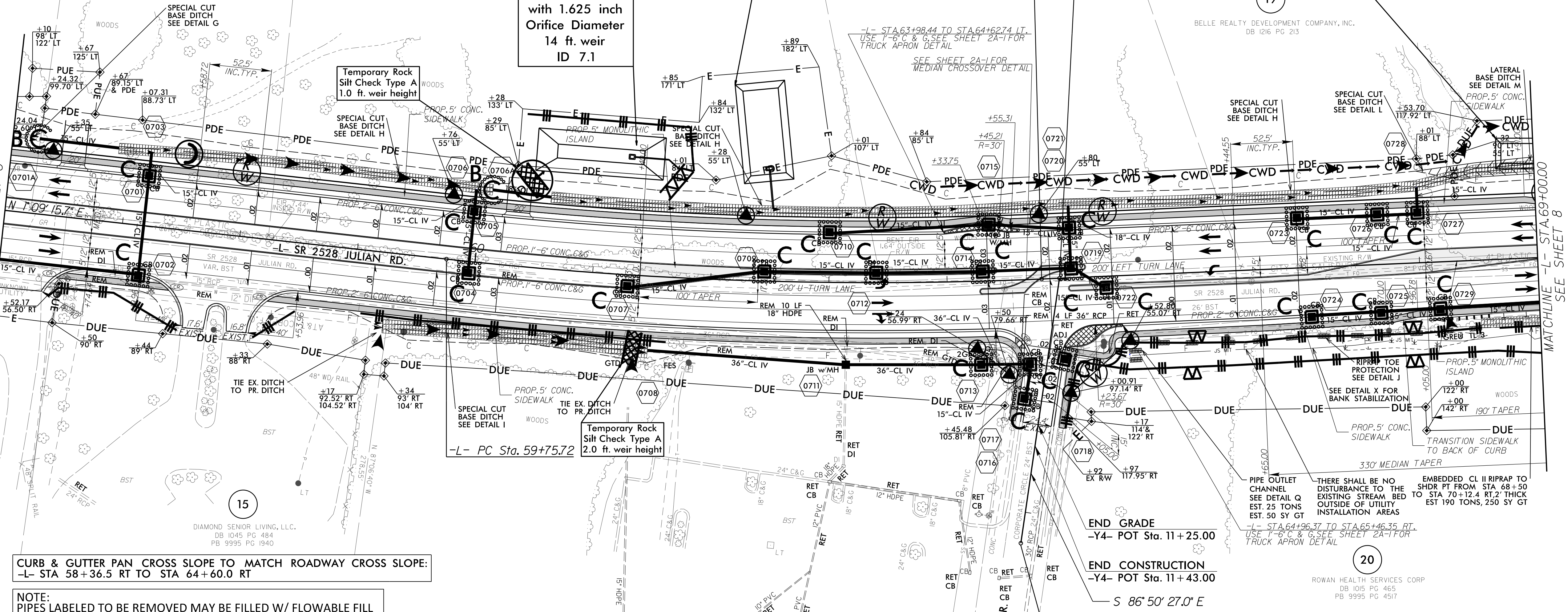
NAD 83 NA 2011

-L-
PI Sta 62+28.38
 $\Delta = 8' 45" 23.2" (LT)$
 $D = 1' 44" 10.4"$
 $L = 504.33'$
 $T = 252.66'$
 $R = 3,300.00'$
SE = SEE PLANS

84 x 42 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 7.2

150 x 26 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
15 ft. weir
ID 8.1

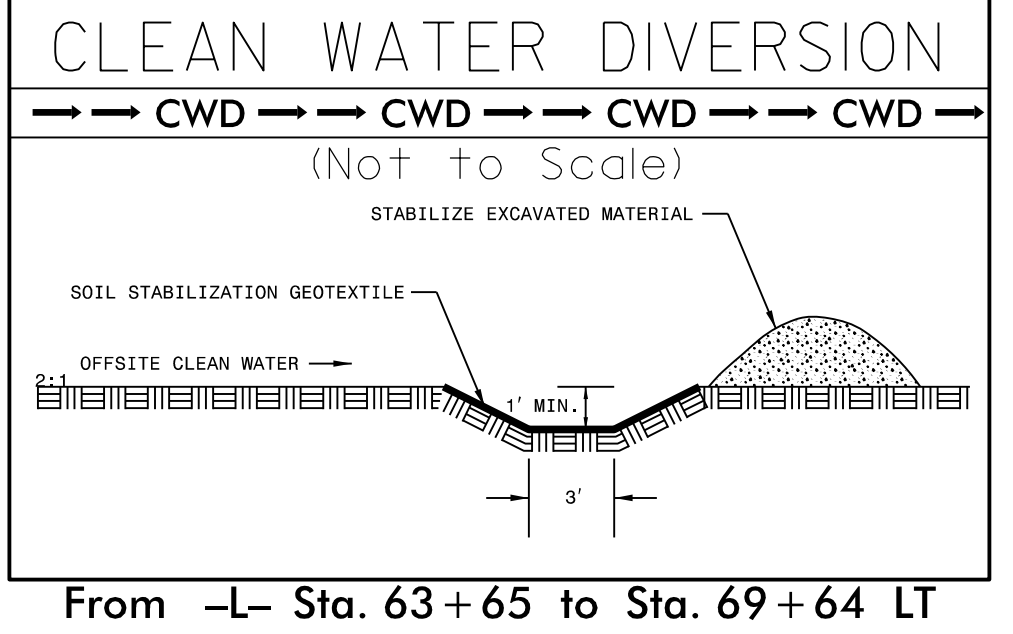
108 x 36 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
14 ft. weir
ID 7.1



CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 58+36.5 RT TO STA 64+60.0 RT

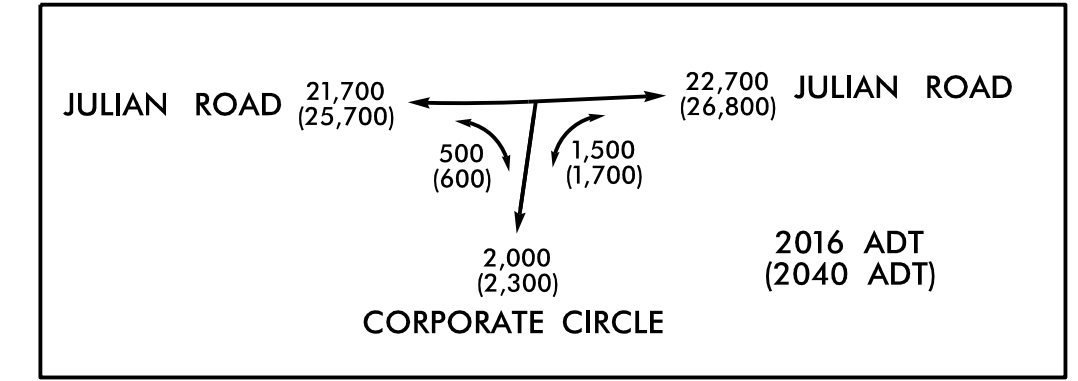
NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV. OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.



Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 65+50 to Sta. 68+50 RT
-L- Sta. 68+00 to Sta. 69+00 LT

FOR EXISTING DRAINAGE STRUCTURES ADJACENT TO ACTIVE TRAVEL WAYS, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAP - TYPE C SHOWN ON PLANS



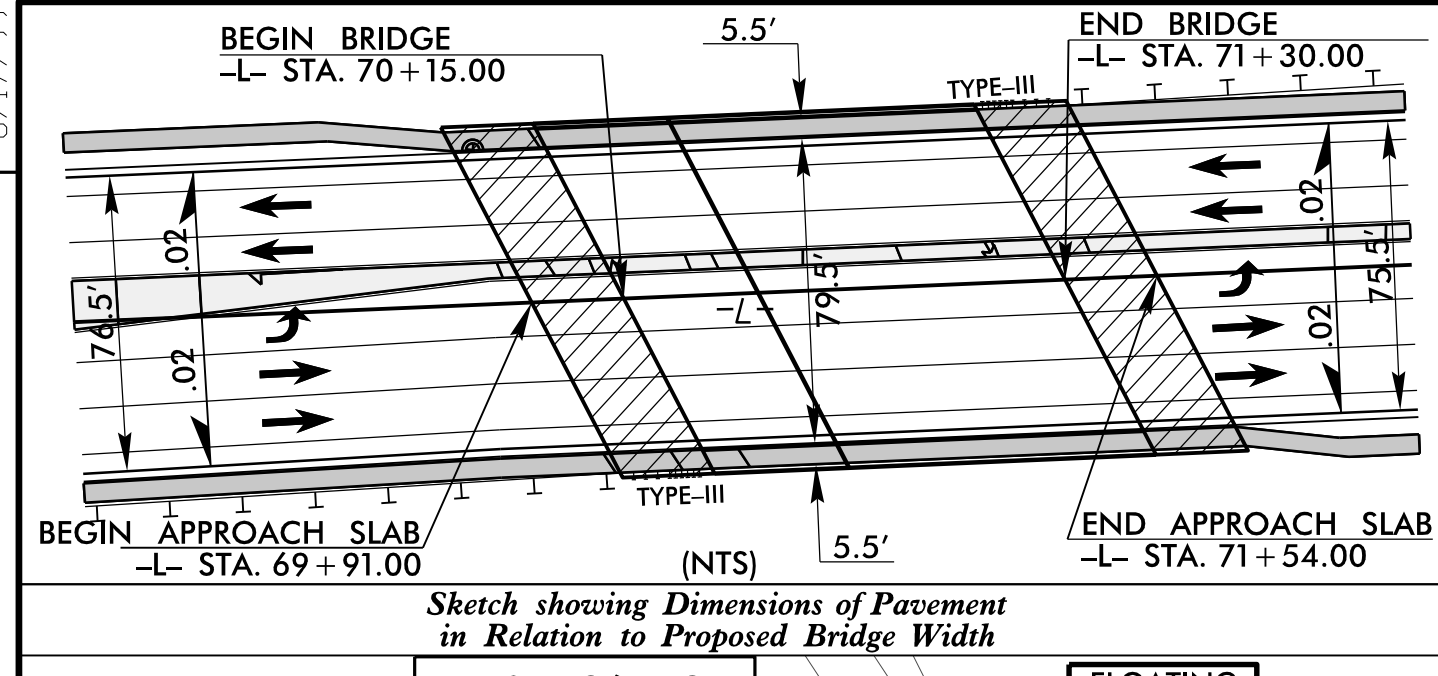
REVISIONS

8/17/99

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1/2/2017 11:17:02 AM
Continuation

TRUCK MOUNTED APRON

SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y4- PROFILE
SEE SHEET 2D-I FOR DRAINAGE DITCH DETAILS



	-Y5-	-Y6-	-Y8-
PI Sta	11+43.82	13+34.35	11+79.45
Δ	4' 11" 10.4" (LT)	8' 43" 35.1" (LT)	85' 43" 30.8" (RT)
D	1' 27" 21.7"	9' 20" 01.6"	8' 51" 04.0"
L	287.51'	93.49'	104.73'
T	143.82'	46.84'	64.96'
R	3,935.07'	613.85'	70.00'

Utilize Special Stilling Basin(s) as Stilling Basin(s) where Required for Installation of Drilled Shafts.

NAD 83 NA 2011

BEGIN CONSTRUCTION
-Y5- POT Sta. 10+65.00

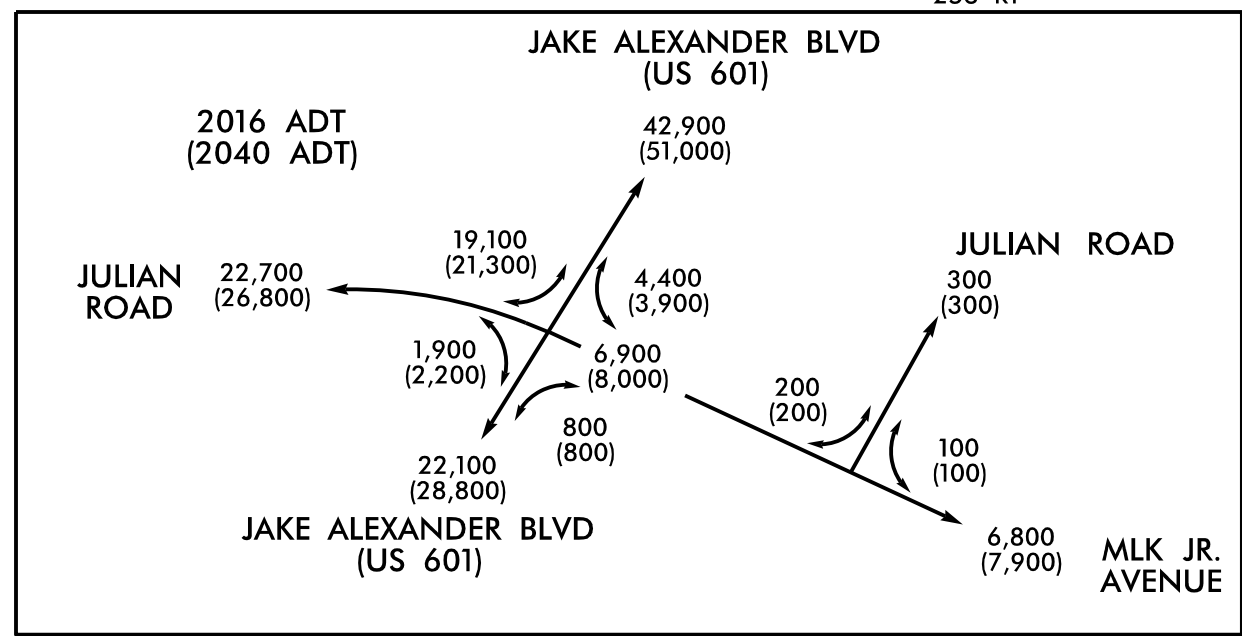
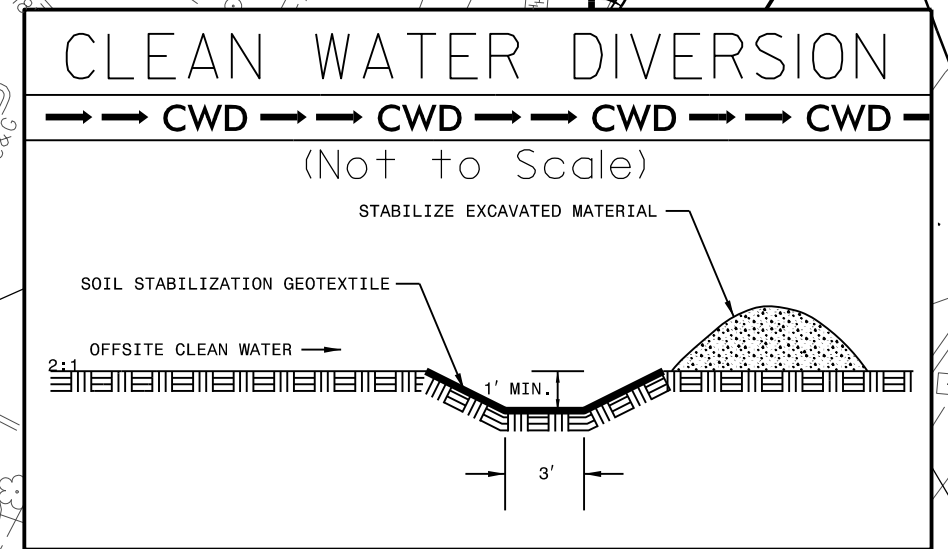
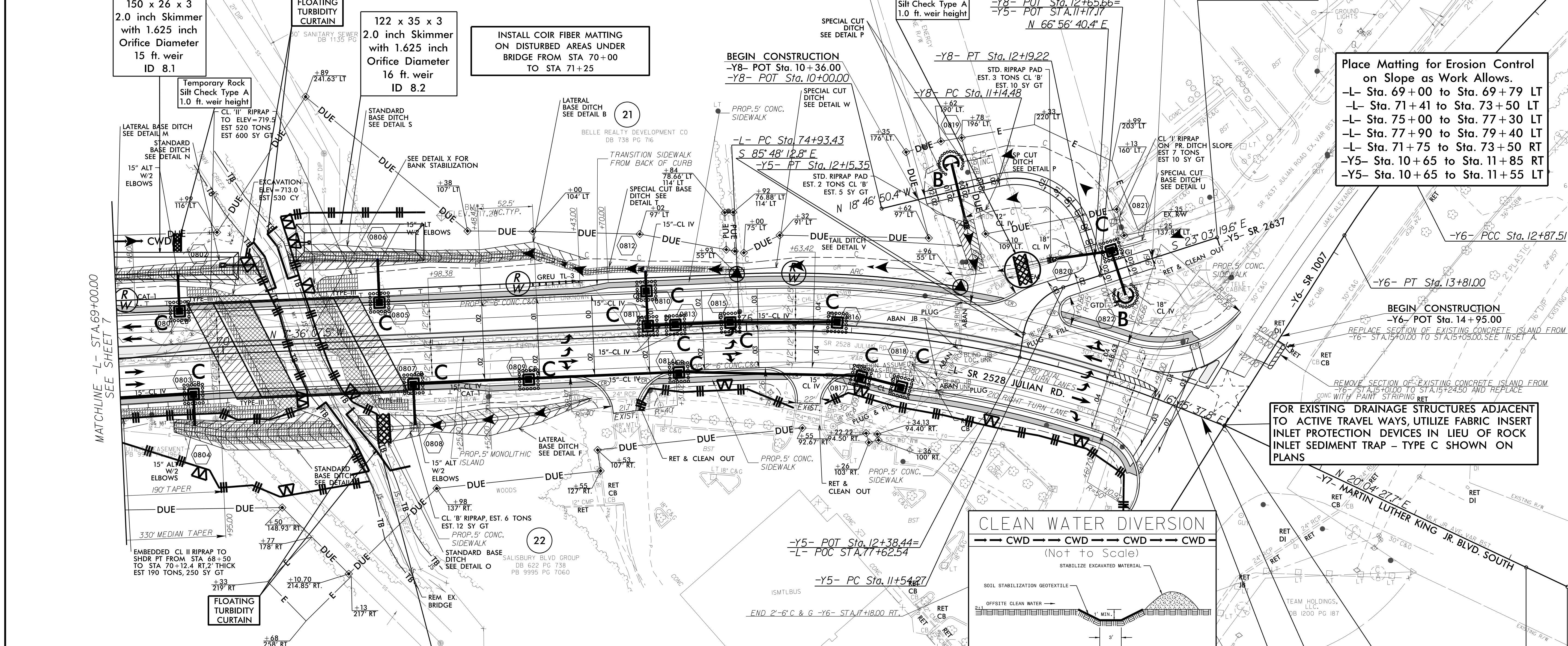
RELEASE FOR CONSTRUCTION DATE: _____

150 x 26 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
15 ft. weir
ID 8.1

122 x 35 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
16 ft. weir
ID 8.2

INSTALL COIR FIBER MATTING
ON DISTURBED AREAS UNDER
BRIDGE FROM STA 70+00
TO STA 71+25

Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 69+00 to Sta. 69+79 LT
-L- Sta. 71+41 to Sta. 73+50 LT
-L- Sta. 75+00 to Sta. 77+30 LT
-L- Sta. 77+90 to Sta. 79+40 LT
-L- Sta. 71+75 to Sta. 73+50 RT
-Y5- Sta. 10+65 to Sta. 11+85 RT
-Y5- Sta. 10+65 to Sta. 11+55 LT



CURB & GUTTER PAN CROSS SLOPE TO MATCH ROADWAY CROSS SLOPE:
-L- STA 75+63.4 LT TO STA 79+18.6 LT

NOTE:
PIPES LABELED TO BE REMOVED MAY BE FILLED W/ FLOWABLE FILL
AND ABANDONED AT THE NCDOT FIELD ENGINEER'S DISCRETION.

NOTE:
IN SYSTEMS TO BE PLUGGED AND FILLED W/ FLOWABLE FILL, REMOVE
STRUCTURES. ALTERNATELY, REMOVE TOPS OF STRUCTURES TO ELEV.
OF BOTTOM OF AGGREGATE ROADWAY BASE, AND FILL W/ COMPACTED
ABC OR FLOWABLE FILL AT NCDOT FIELD ENGINEER'S DISCRETION.

Ensure Proposed Ditch
from Sta. 69+50 to Sta. 71+15 RT
is Completely Stabilized with Vegetation
prior to bringing ditch on-line in
final phase.

Ensure Proposed Ditch
from Sta. 71+50 to Sta. 73+50 RT
is Completely Stabilized with Vegetation
prior to bringing ditch on-line in
final phase.

END TIP PROJECT U-5738
-L- POT STA. 79+45.00

END CONSTRUCTION
-Y6- POT Sta. 17+18.00

-Y7- POT Sta. 13+61.64

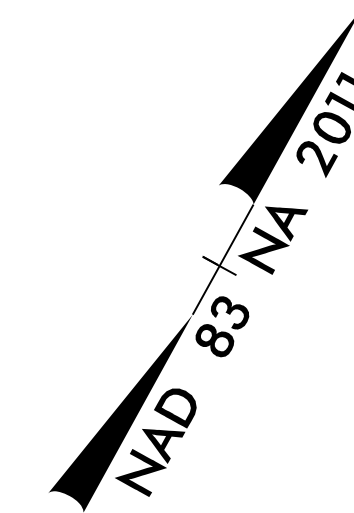
SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y5- PROFILE
SEE SHEET 14 FOR -Y8- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

EXISTING TRAFFIC SIGNAL

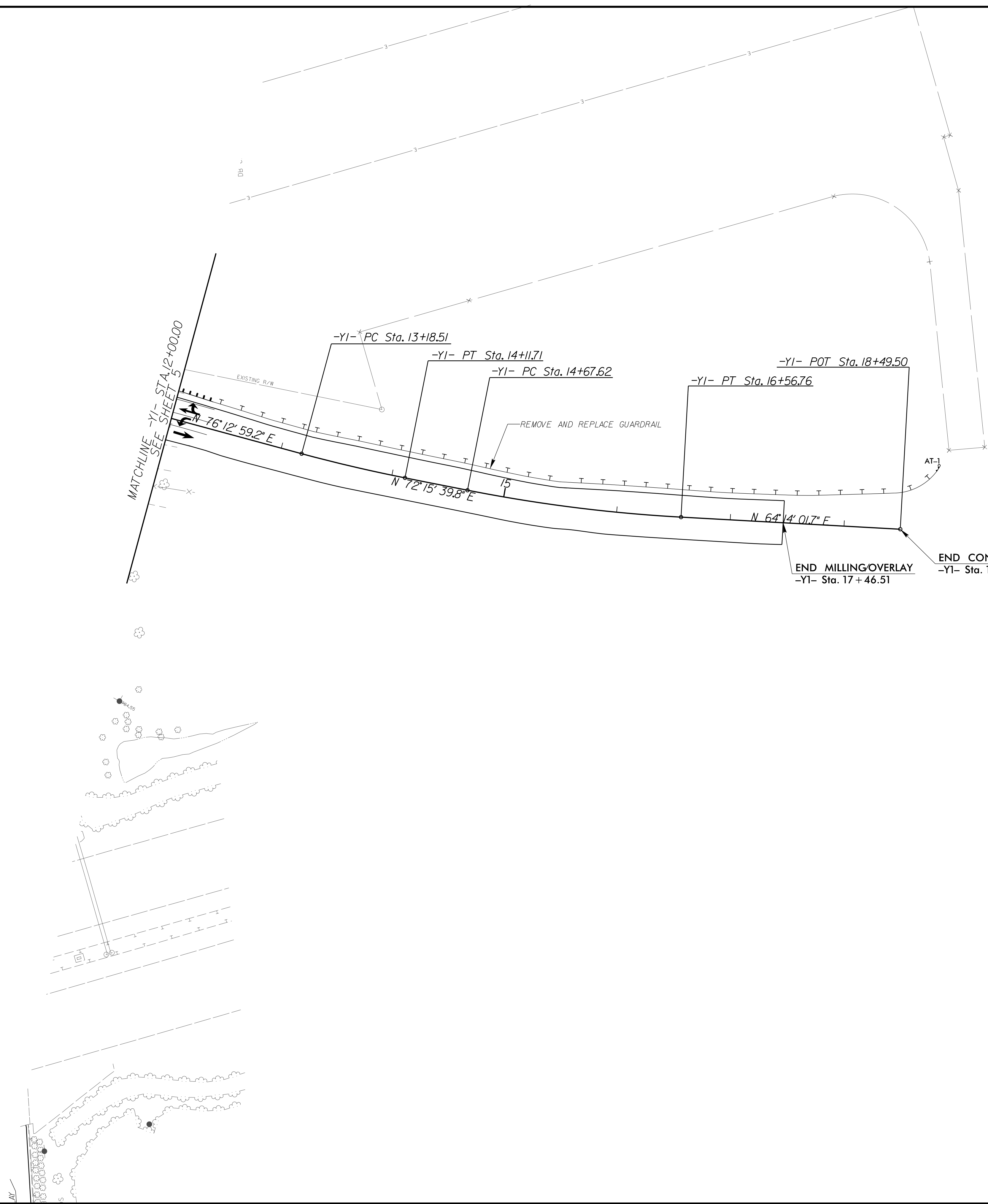
REVISIONS

8/17/99
1/2/2017
U5738/171026220 U5738/Roadside/CADD/PSH/JH/738_Rdy_EC_14.dgn

**RELEASE FOR
CONSTRUCTION
DATE: _____**



-YI-	
PI Sta 13+65.13	PI Sta 15+62.34
$\Delta = 3^{\circ} 57' 19.4''$ (LT)	$\Delta = 8^{\circ} 01' 38.2''$ (LT)
D = 4' 14" 38.9"	D = 4' 14" 38.9"
L = 93.20'	L = 189.14'
T = 46.62'	T = 94.72'
R = 1,350.00'	R = 1,350.00'
SE = SEE PLANS	SE = SEE PLANS



REVISIONS

8/17/99
1/2/2021
U:\2021\17102620_U5738\Roadside\CADD\PSH\U4738_Rd15_EC_15.dgn

SEE SHEET 14 FOR -YI- PROFILE