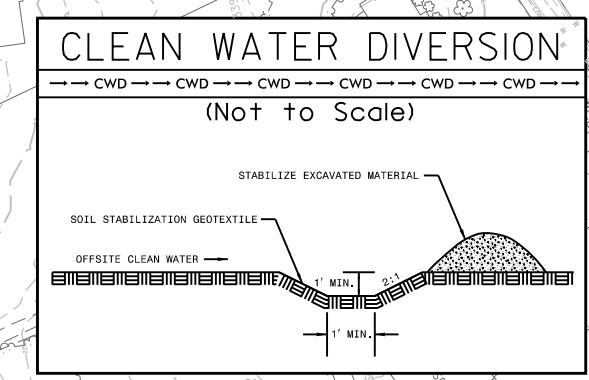
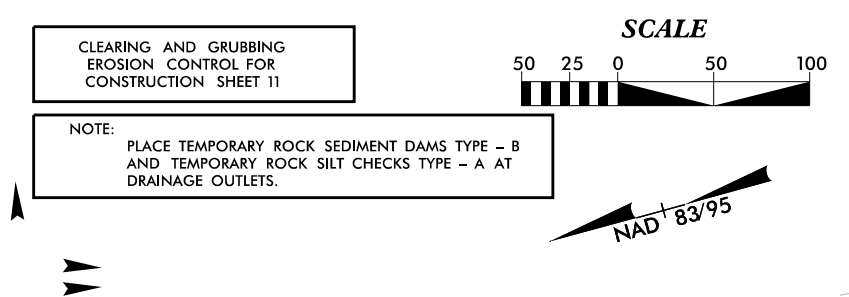


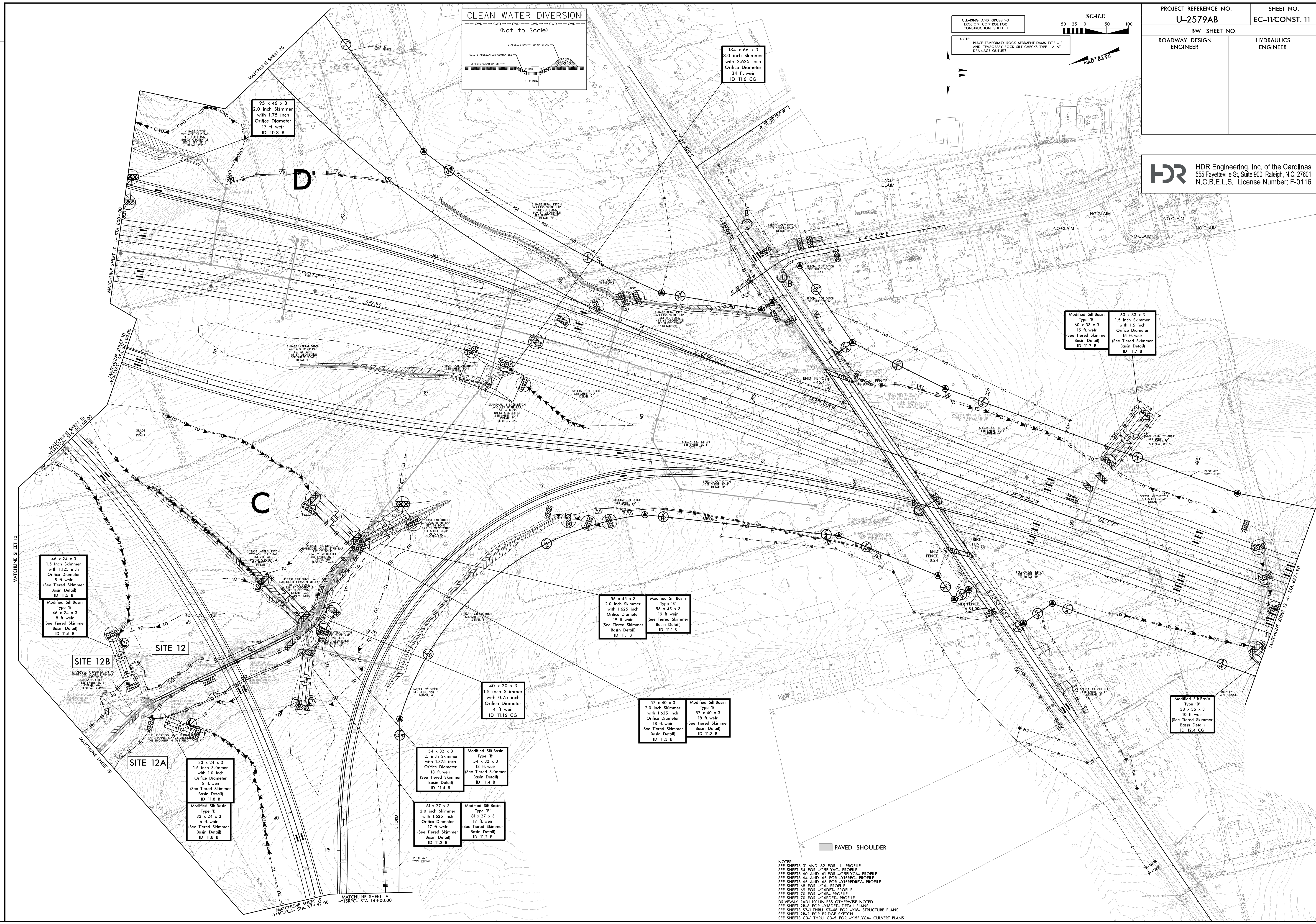
PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-11/CONST. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



CLEANING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.




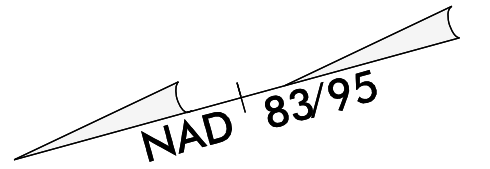
NOTES:
SEE SHEETS 31 AND 32 FOR -L- PROFILE
SEE SHEET 34 FOR -Y15FLYAC- PROFILE
SEE SHEETS 60 AND 61 FOR -Y15FLYAC- PROFILE
SEE SHEETS 64 AND 65 FOR -Y15RPC- PROFILE
SEE SHEETS 65 AND 66 FOR -Y15RPREV- PROFILE
SEE SHEET 68 FOR -V16- PROFILE
SEE SHEET 69 FOR -Y16D1- PROFILE
SEE SHEET 70 FOR -Y16B- PROFILE
SEE SHEET 78-8 FOR -Y16BET- DETAIL PLANS
SEE SHEETS 57-1 THRU 57-48 FOR -Y16- STRUCTURE PLANS
SEE SHEETS C2-1 THRU C2-5 FOR -Y15FLYAC- CULVERT PLANS

REVISIONS

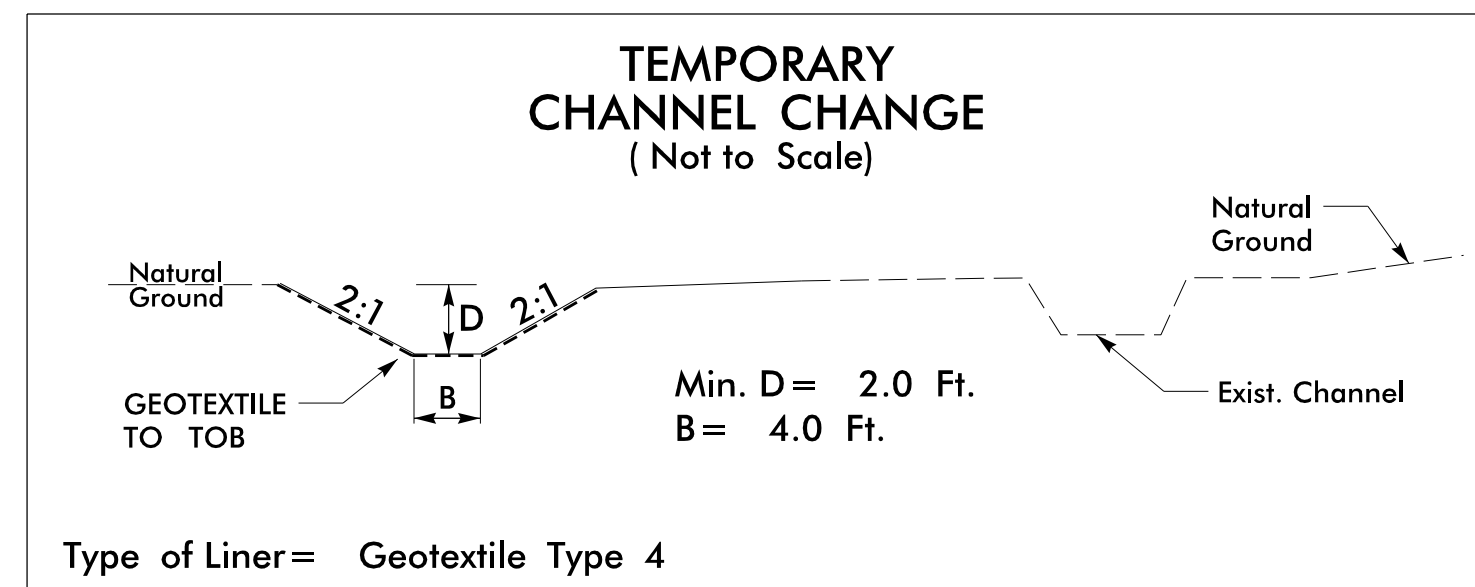
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CULVERT CONSTRUCTION SEQUENCE STA. 43+66 -Y15FLYCA-

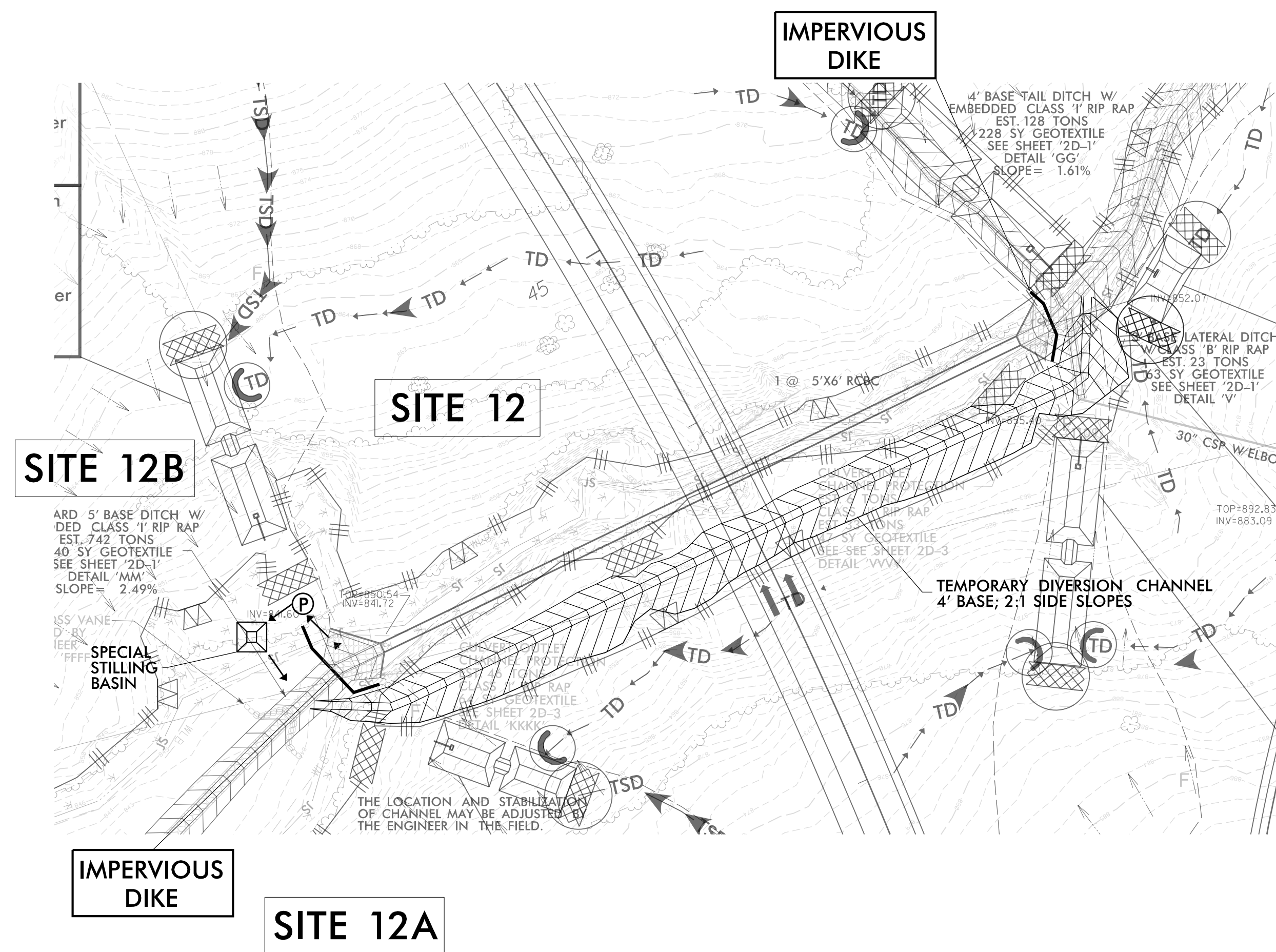
PROJECT REFERENCE NO. <i>U-2579AB</i>		SHEET NO. <i>EC-IIA/CONST.II</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			



1. CONSTRUCT 4' BASE TEMPORARY CHANNEL CHANGE WITH LINER. SECURE INLET AND OUTLET OF CHANNEL.
2. UTILIZE SPECIAL STILLING BASIN(S), TEMPORARY DIKES AND BYPASS PUMPS TO TIE TEMPORARY CHANNEL CHANGE INTO STREAM.
3. INSTALL IMPERVIOUS DIKES AS SHOWN TO DIRECT WATER FLOW AROUND THE WORK AREA INTO THE TEMPORARY CHANNEL CHANGE.
4. CONSTRUCT CULVERT USING SPECIAL STILLING BASIN(S) AND PUMP TO DE-WATER THE WORK ZONE.
5. COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS IN DRY CONDITIONS THROUGH THE USE OF PUMP-AROUND OPERATION AND IMPERVIOUS DIKES.
6. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.



NOTE: CONTRACTOR TO USE BERMS AS NEEDED TO MAINTAIN A MINIMUM 2' DEPTH OF THE TEMPORARY CHANNEL CHANGE.

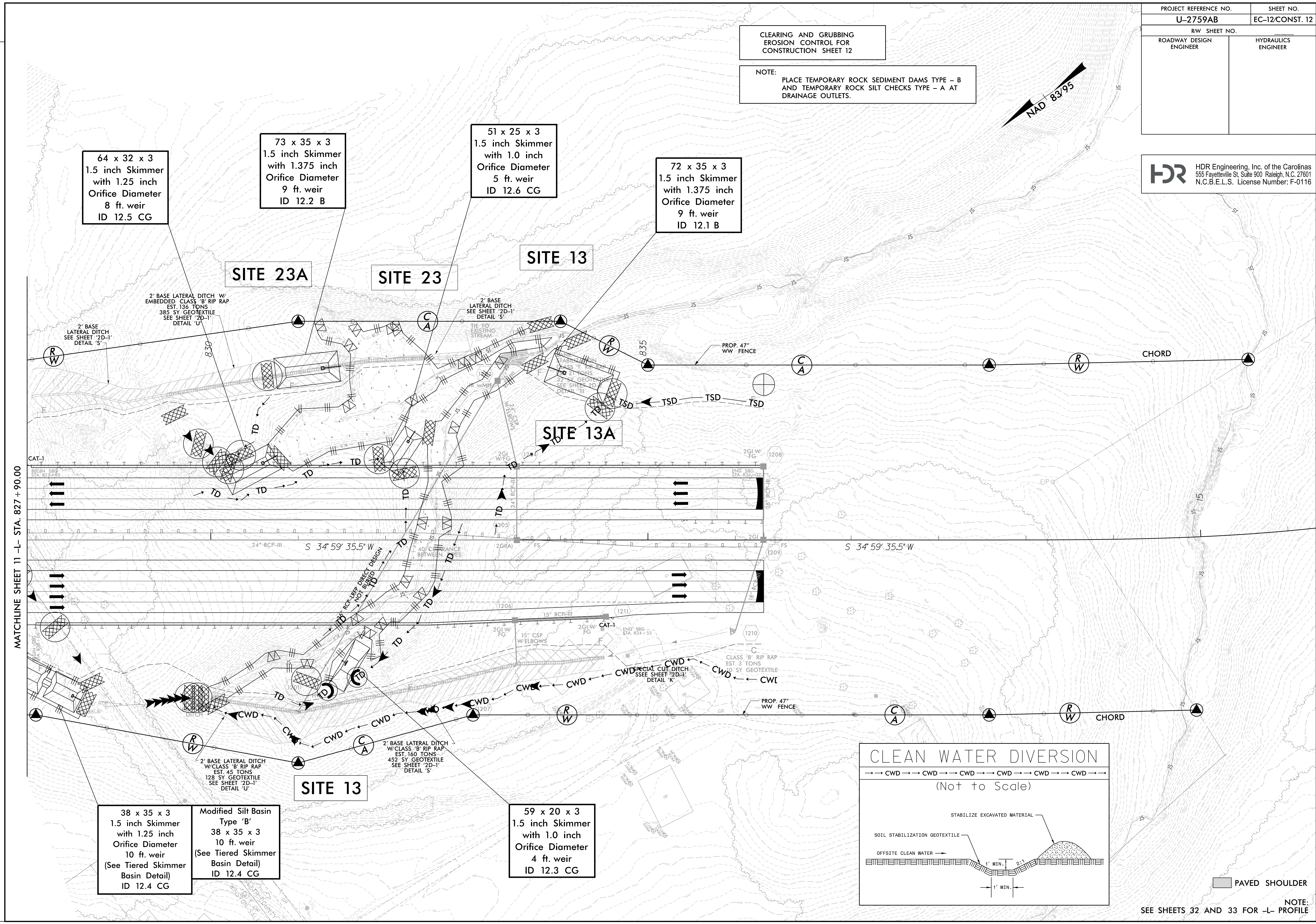
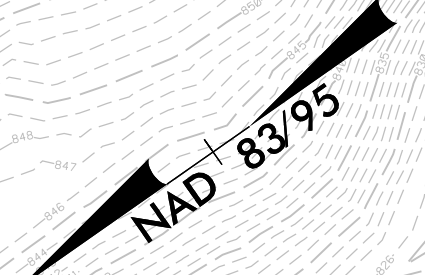


PROJECT REFERENCE NO.	SHEET NO.
U-2759AB	EC-12/CONST. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 12

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.



64 x 32 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 8 ft. weir
 ID 12.5 CG

73 x 35 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID 12.2 B

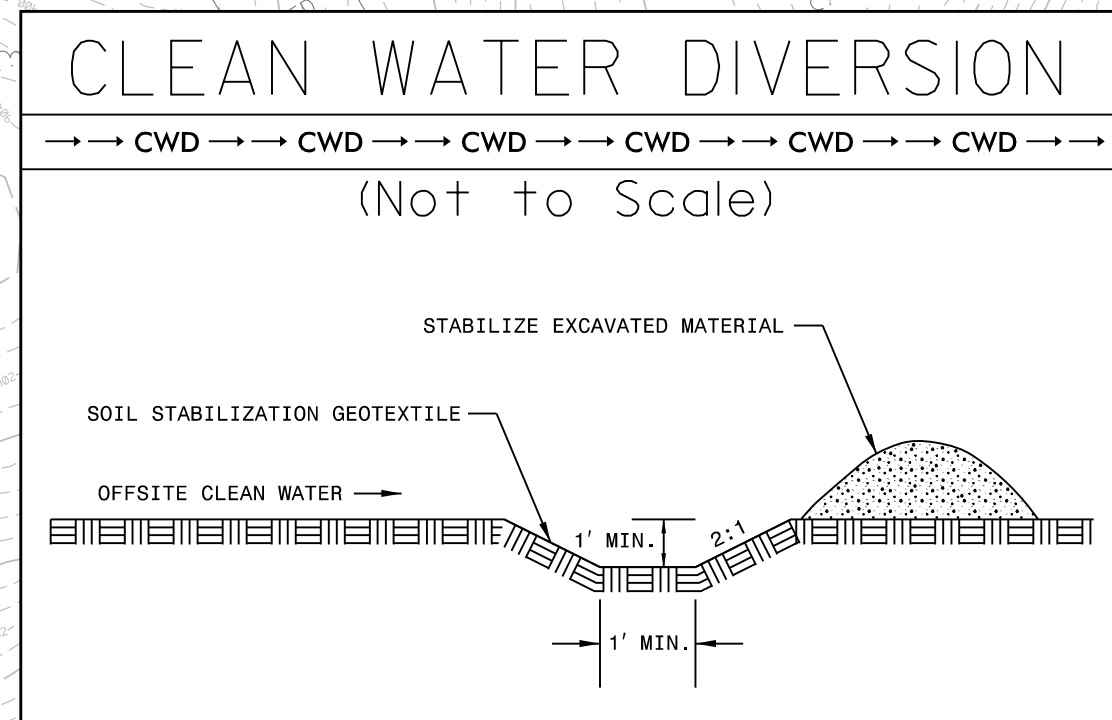
51 x 25 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 5 ft. weir
 ID 12.6 CG

72 x 35 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID 12.1 B

38 x 35 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 10 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 12.4 CG

Modified Silt Basin
 Type 'B'
 38 x 35 x 3
 10 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 12.4 CG

59 x 20 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 4 ft. weir
 ID 12.3 CG



PAVED SHOULDER

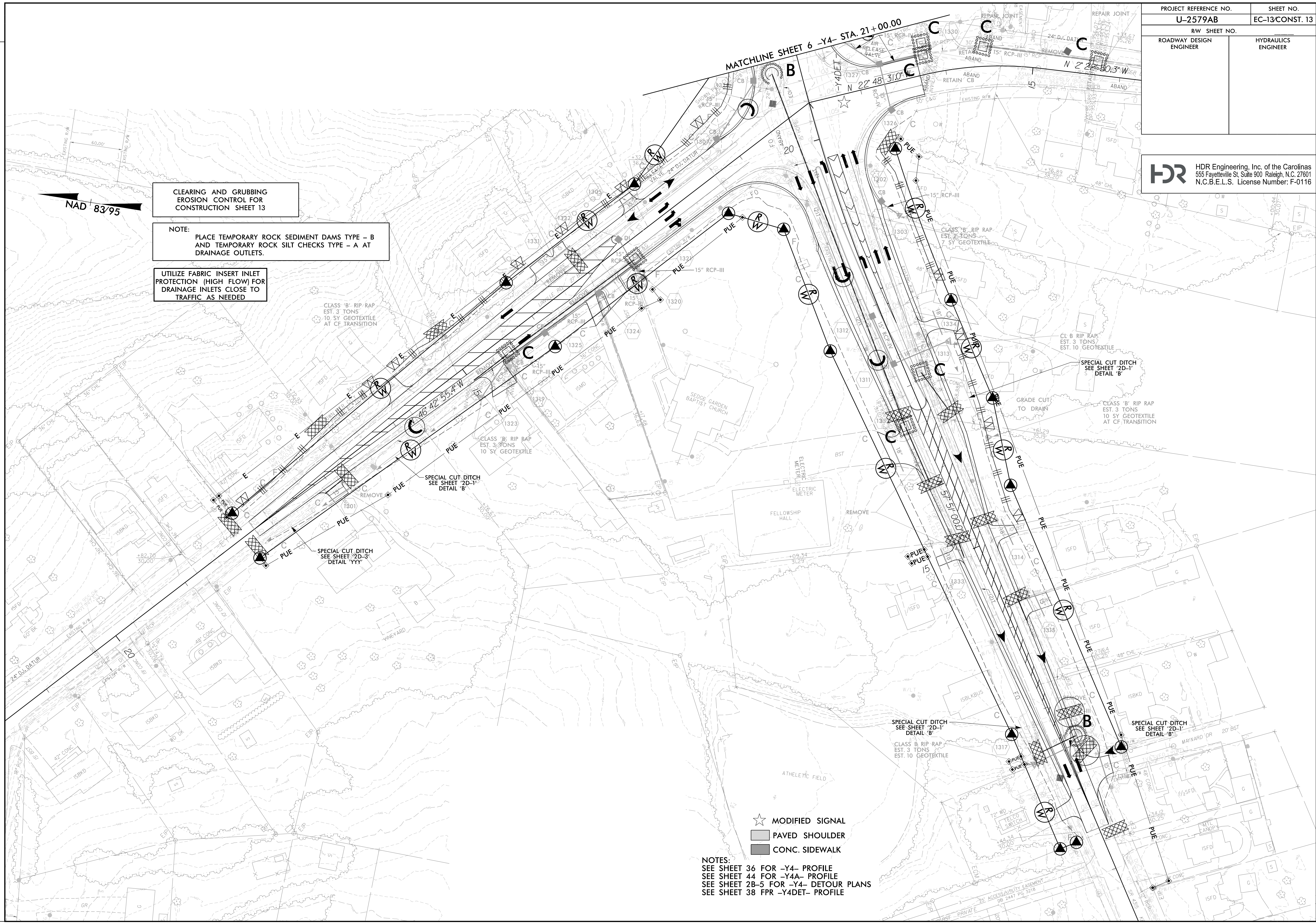
NOTE:
 SEE SHEETS 32 AND 33 FOR -L- PROFILE

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 REVISIONS

MATCHLINE SHEET 11 -L- STA. 827 + 90.00

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-13/CONST. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 N.C.B.E.L.S. License Number: F-0116



NAD 83/95

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 13

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET
 PROTECTION (HIGH FLOW) FOR
 DRAINAGE INLETS CLOSE TO
 TRAFFIC AS NEEDED

CLASS 'B' RIP RAP
 EST. 3 TONS
 10 SY GEOTEXTILE
 AT CF TRANSITION

SPECIAL CUT DITCH
 SEE SHEET '2D-3'
 DETAIL 'YYY'

SPECIAL CUT DITCH
 SEE SHEET '2D-1'
 DETAIL 'B'

SPECIAL CUT DITCH
 SEE SHEET '2D-1'
 DETAIL 'B'

CLASS 'B' RIP RAP
 EST. 3 TONS
 10 SY GEOTEXTILE
 AT CF TRANSITION

SPECIAL CUT DITCH
 SEE SHEET '2D-1'
 DETAIL 'B'

CLASS 'B' RIP RAP
 EST. 3 TONS
 10 SY GEOTEXTILE

SPECIAL CUT DITCH
 SEE SHEET '2D-1'
 DETAIL 'B'

- ★ MODIFIED SIGNAL
- ▭ PAVED SHOULDER
- ▭ CONC. SIDEWALK

NOTES:
 SEE SHEET 36 FOR -Y4- PROFILE
 SEE SHEET 44 FOR -Y4A- PROFILE
 SEE SHEET 2B-5 FOR -Y4- DETOUR PLANS
 SEE SHEET 38 FPR -Y4DET- PROFILE

REVISIONS

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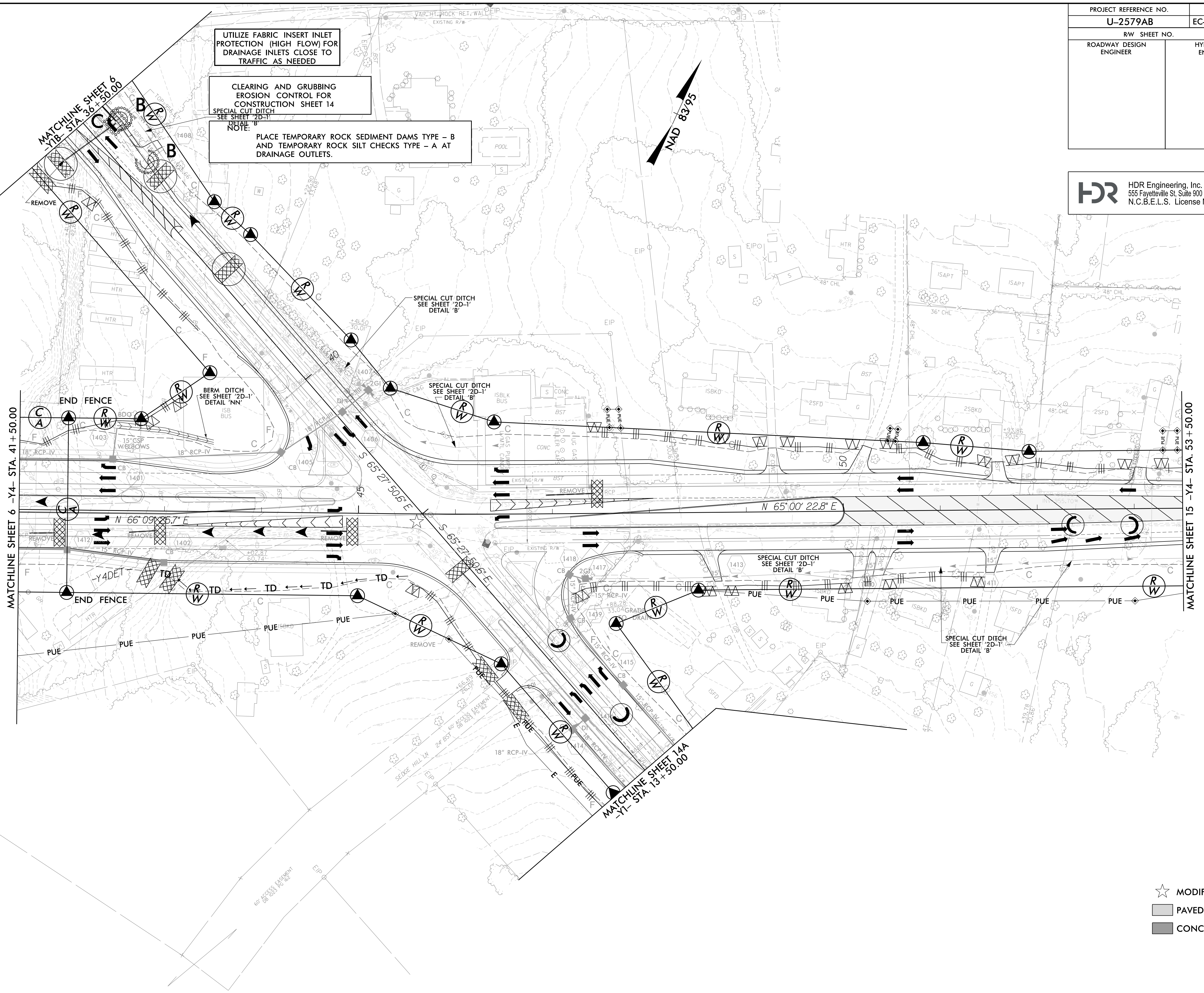
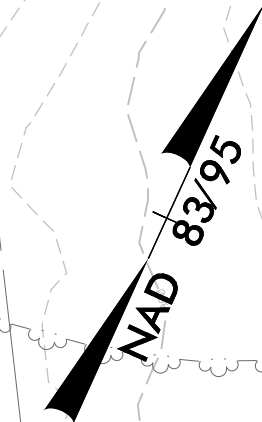
PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-14/CONST. 14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

UTILIZE FABRIC INSERT INLET PROTECTION (HIGH FLOW) FOR DRAINAGE INLETS CLOSE TO TRAFFIC AS NEEDED

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



REVISIONS

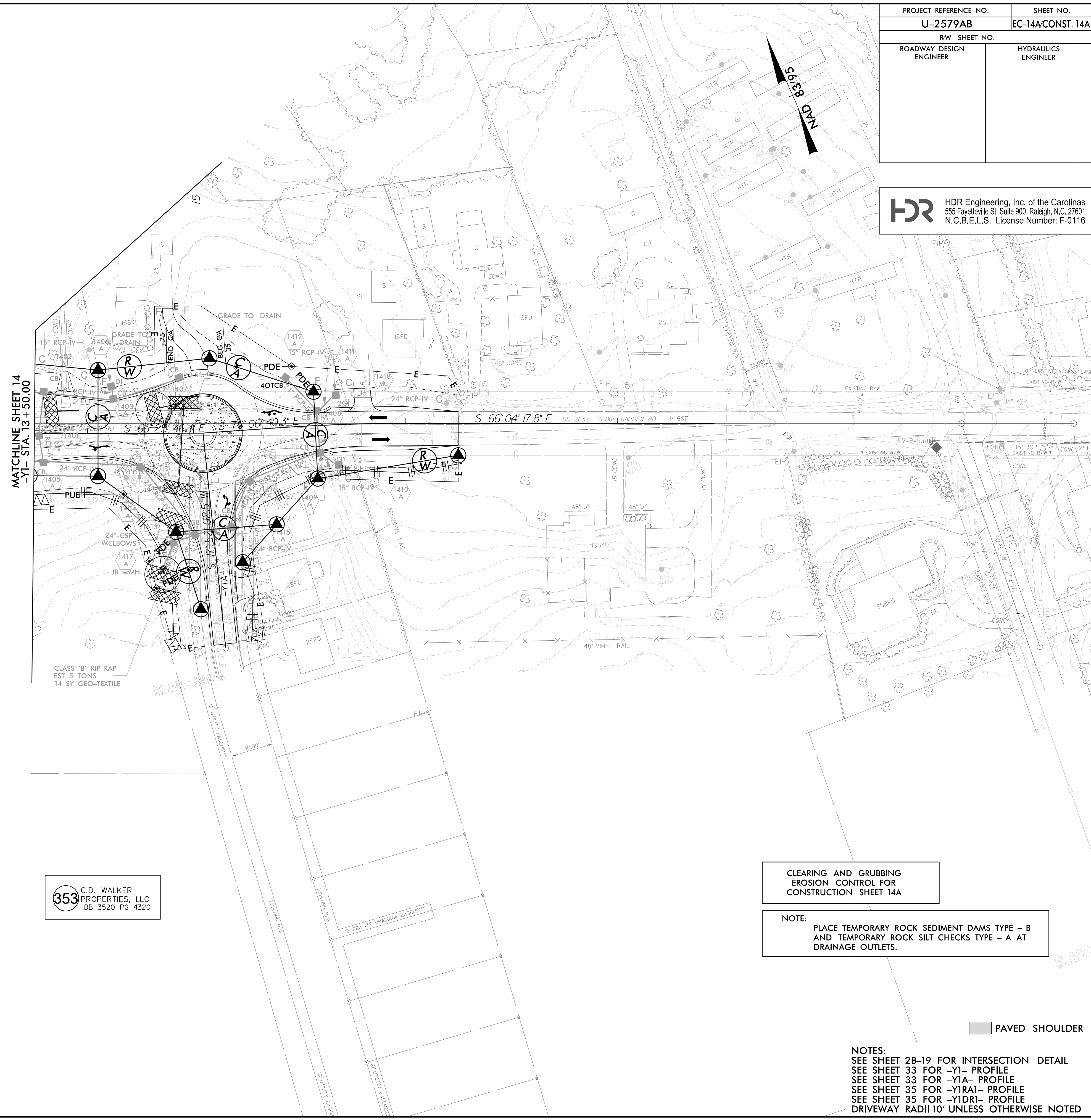
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- ★ MODIFIED SIGNAL
- ▒ PAVED SHOULDER
- CONC. SIDEWALK

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-14A/CONST. 14A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116



MATCHLINE SHEET 14
 -Y1- STA. 13 + 50.00

353 C.D. WALKER
 PROPERTIES, LLC
 DB 3520 PG 4320

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 14A

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

PAVED SHOULDER

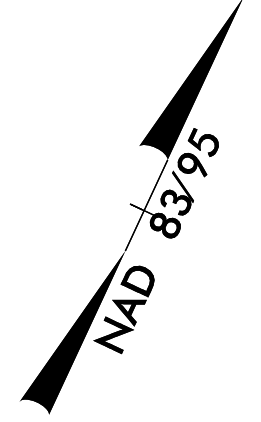
NOTES:
 SEE SHEET 28-19 FOR INTERSECTION DETAIL
 SEE SHEET 33 FOR -Y1- PROFILE
 SEE SHEET 33 FOR -Y1A- PROFILE
 SEE SHEET 35 FOR -Y1RA1- PROFILE
 SEE SHEET 35 FOR -Y1DR1- PROFILE
 DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

REVISIONS

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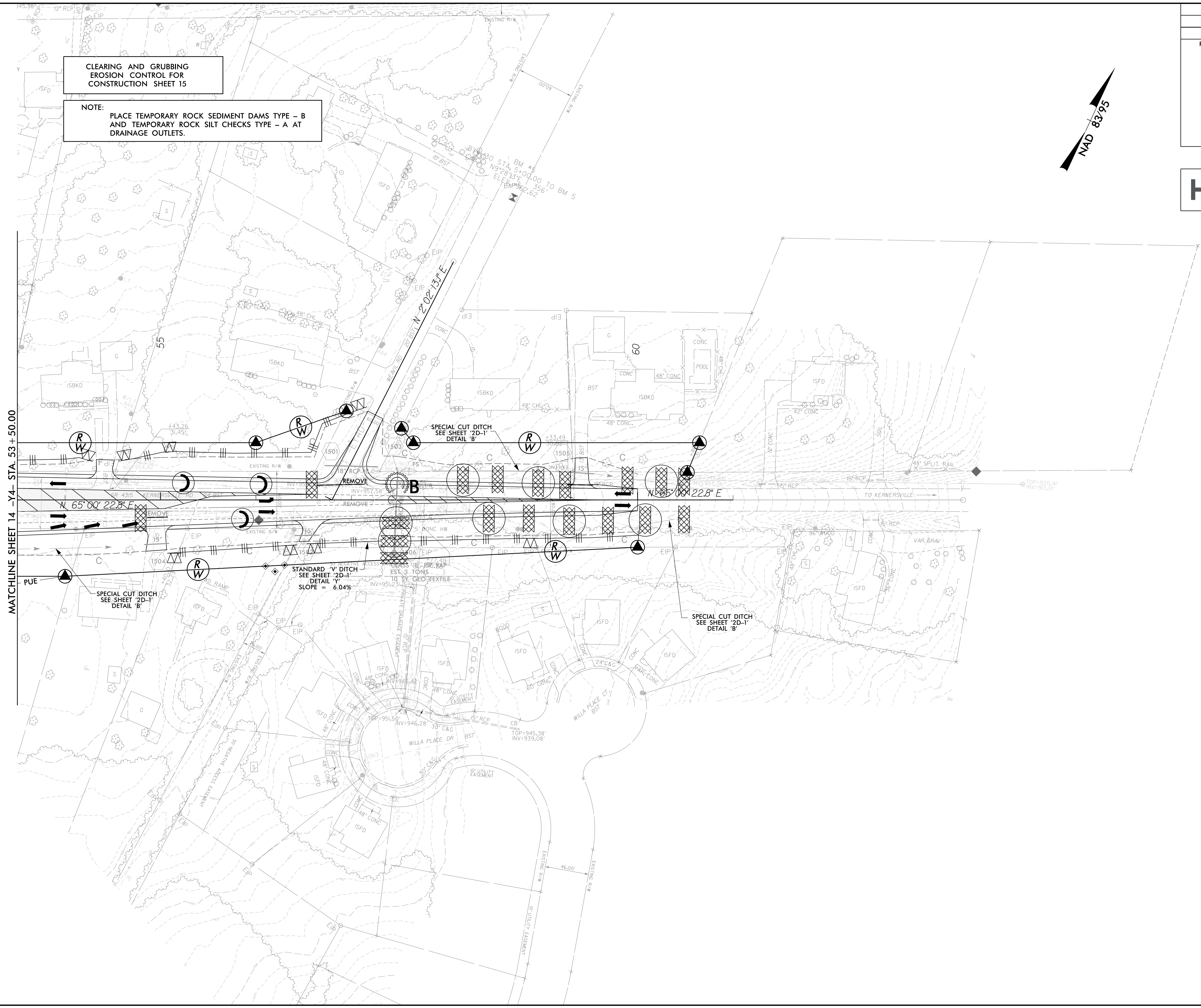
PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-15/CONST. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 15

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.



MATCHLINE SHEET 14 -Y4- STA. 53 + 50.00

REVISIONS

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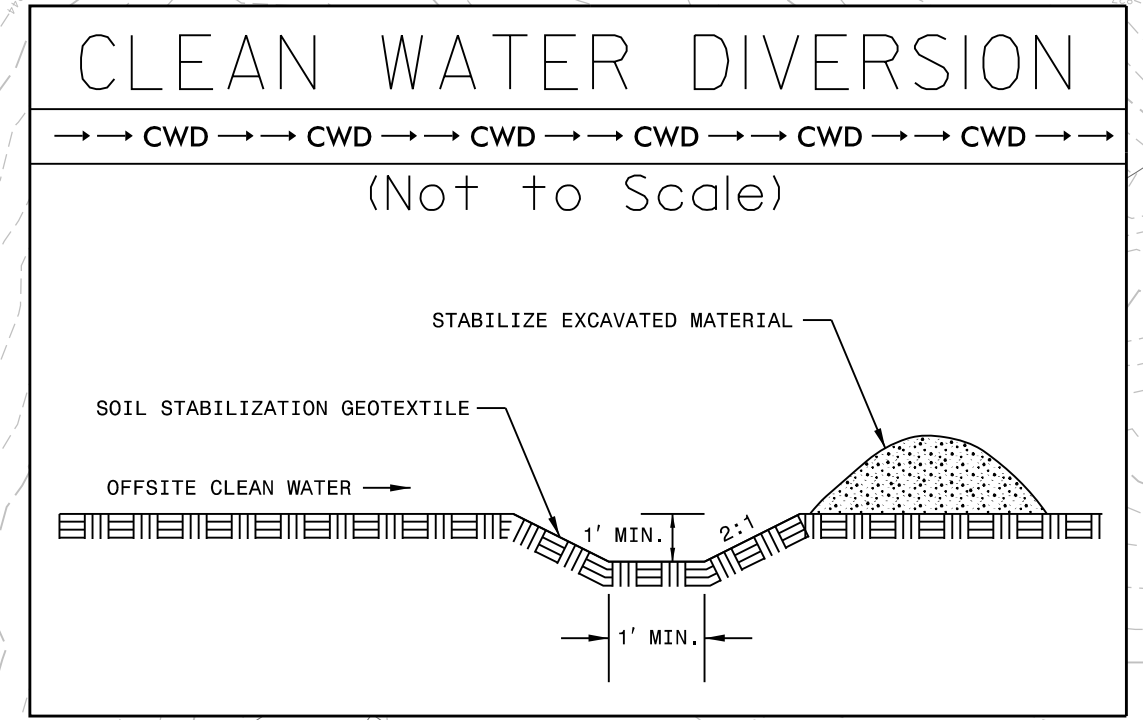
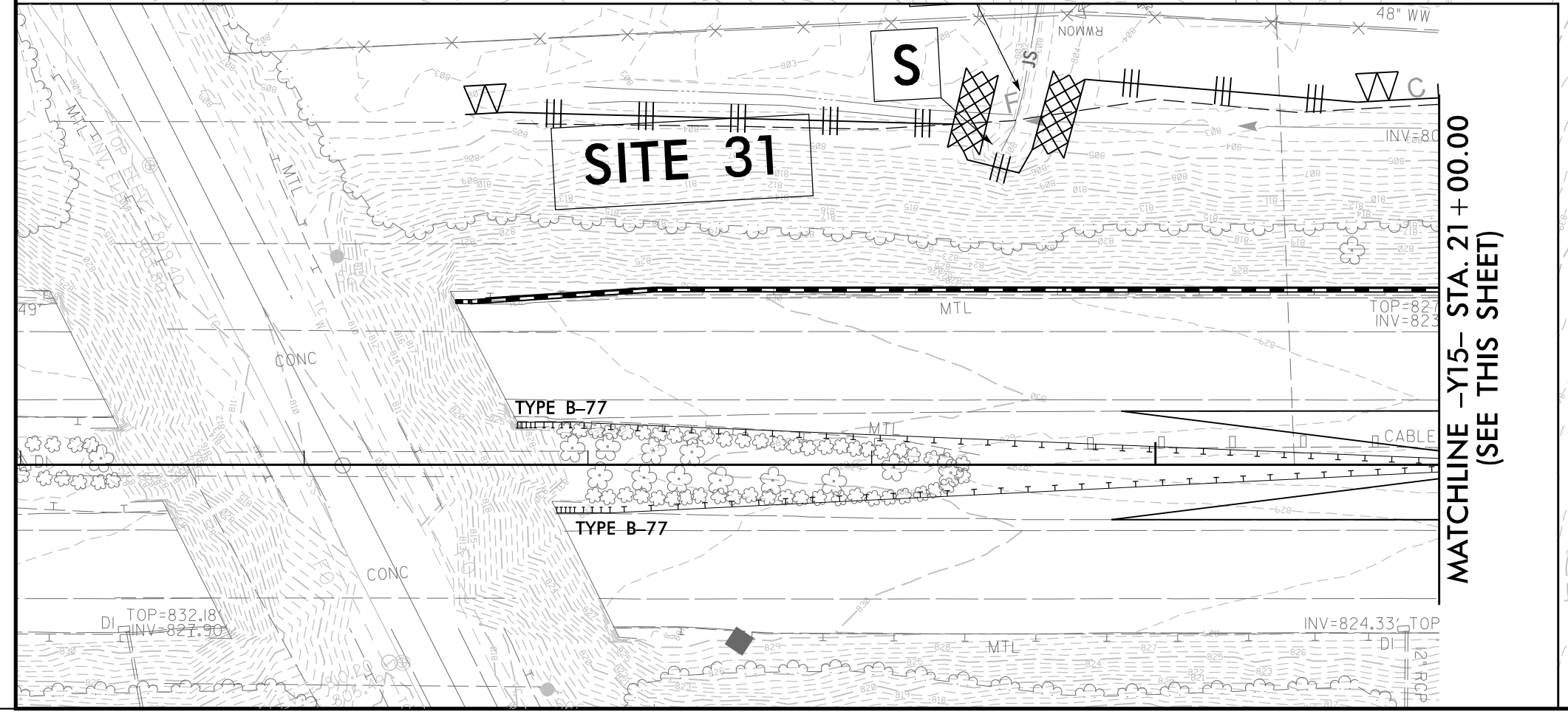
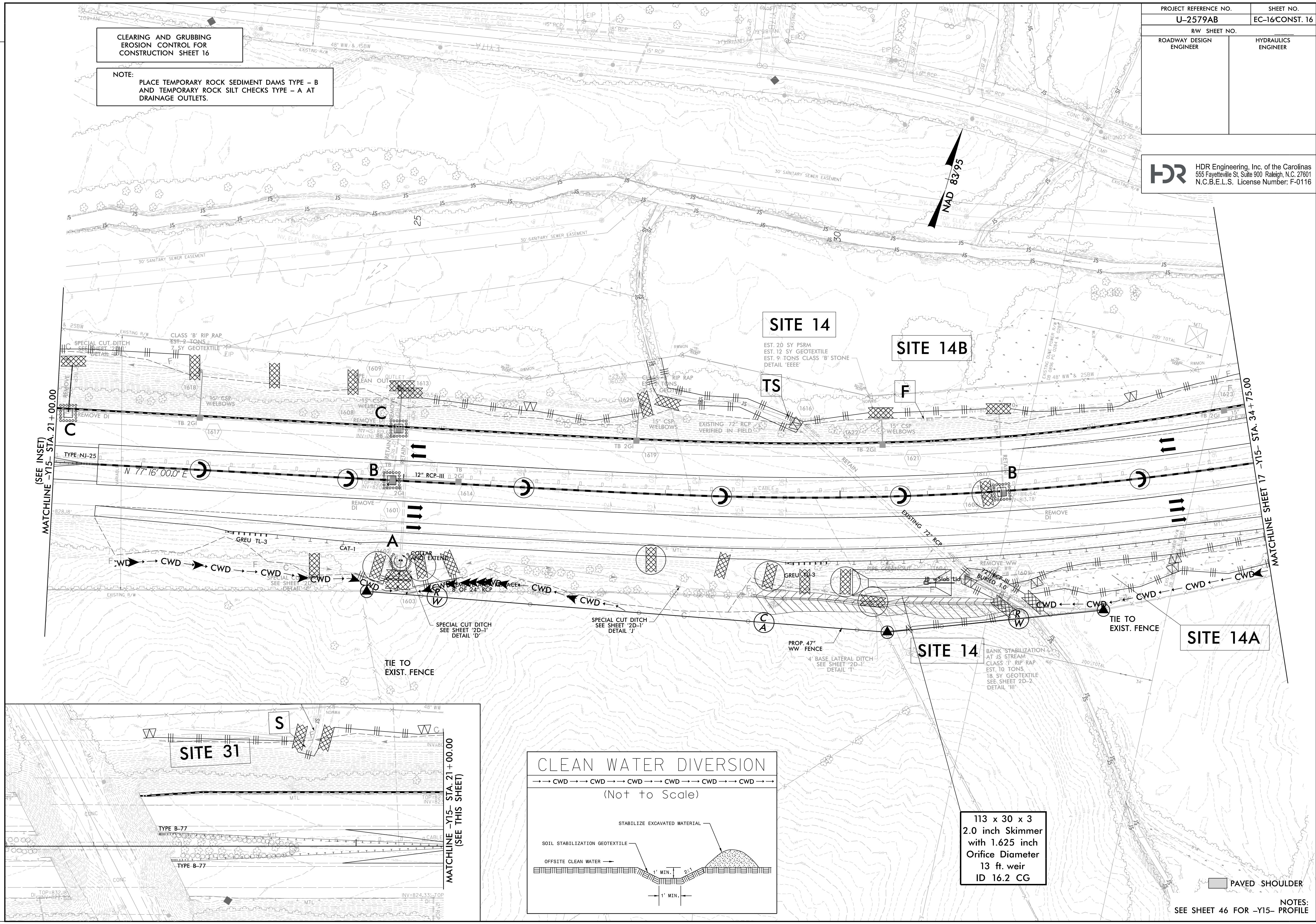
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-16/CONST. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 16

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.



113 x 30 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft. weir
 ID 16.2 CG

PAVED SHOULDER
 NOTES:
 SEE SHEET 46 FOR -Y15- PROFILE

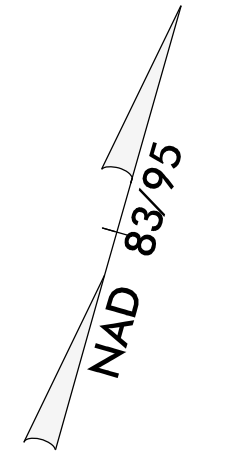
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CULVERT CONSTRUCTION SEQUENCE STA. 30+42 -Y15-

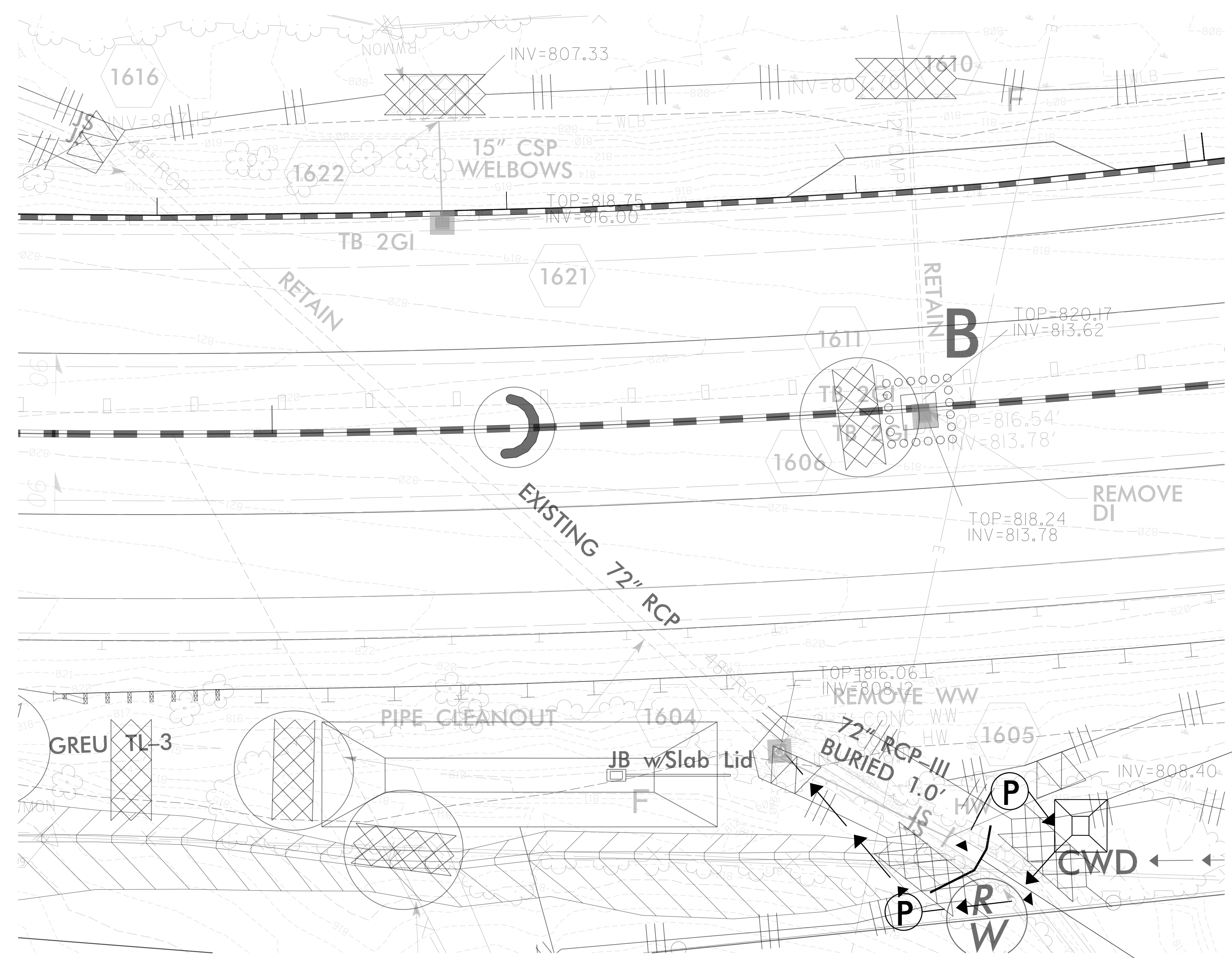
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

NOT TO SCALE



1. INSTALL IMPERVIOUS DIKE AND USE PUMPING OPERATION TO DIVERT STREAM FLOW THROUGH EXISTING 72" RCP.
2. INSTALL 72" RCP EXTENSION UTILIZING PUMP AND SPECIAL STILLING BASIN(S) FOR DEWATERING OF THE WORK ZONE.
3. COMPLETE STREAM IMPORVEMENTS.
4. REMOVE IMPERVIOUS DIKE AND ESTABLISH FLOW THROUGH NEWLY EXTENDED 72" RCP.



SITE 14

IMPERVIOUS DIKE

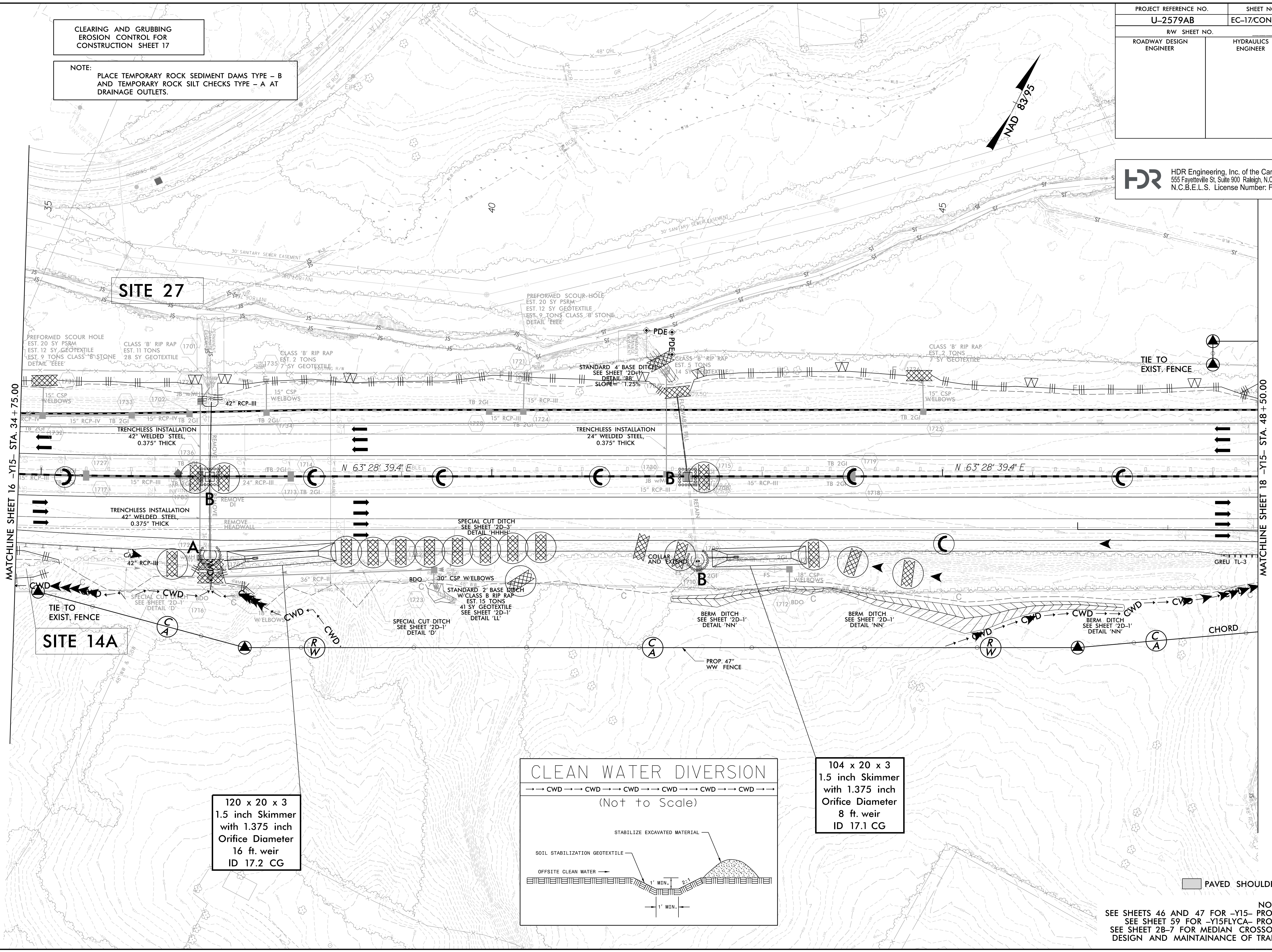
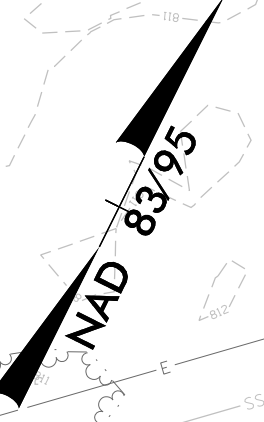
SPECIAL STILLING BASIN

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-17/CONST. 17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 17

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.



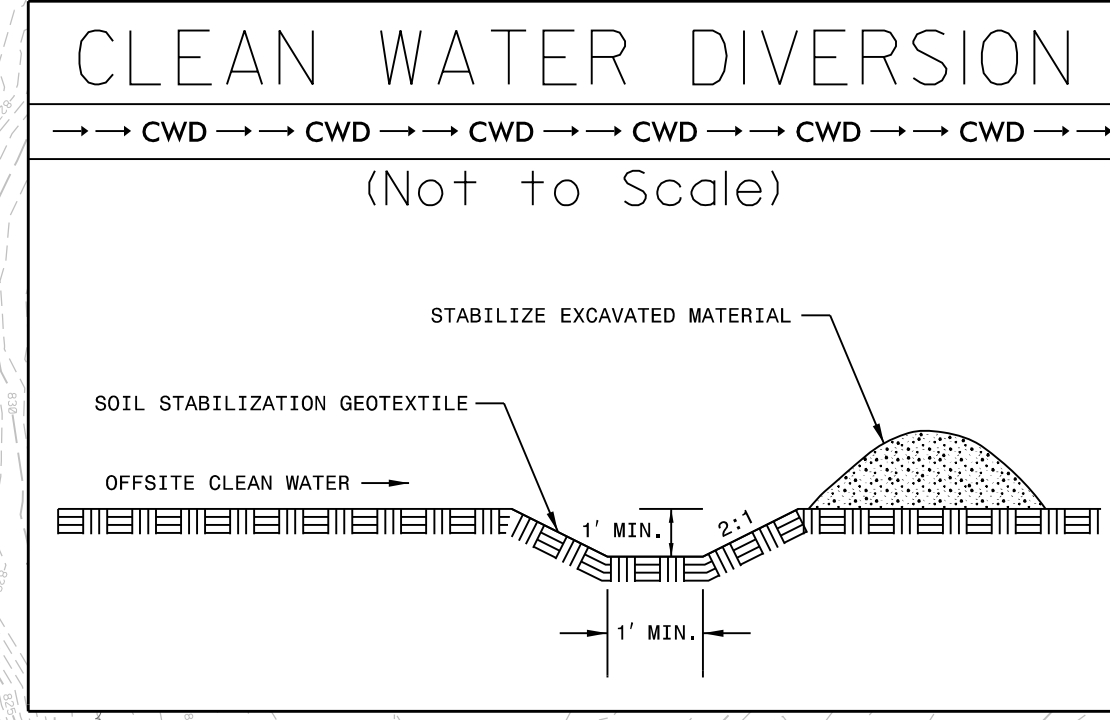
SITE 14A

SITE 27

MATCHLINE SHEET 16 -Y15- STA. 34+75.00

MATCHLINE SHEET 18 -Y15- STA. 48+50.00

120 x 20 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 16 ft. weir
 ID 17.2 CG



104 x 20 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 8 ft. weir
 ID 17.1 CG

PAVED SHOULDER

NOTES:
 SEE SHEETS 46 AND 47 FOR -Y15- PROFILE
 SEE SHEET 59 FOR -Y15FLYCA- PROFILE
 SEE SHEET 2B-7 FOR MEDIAN CROSSOVER
 DESIGN AND MAINTAINANCE OF TRAFFIC

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REVISIONS

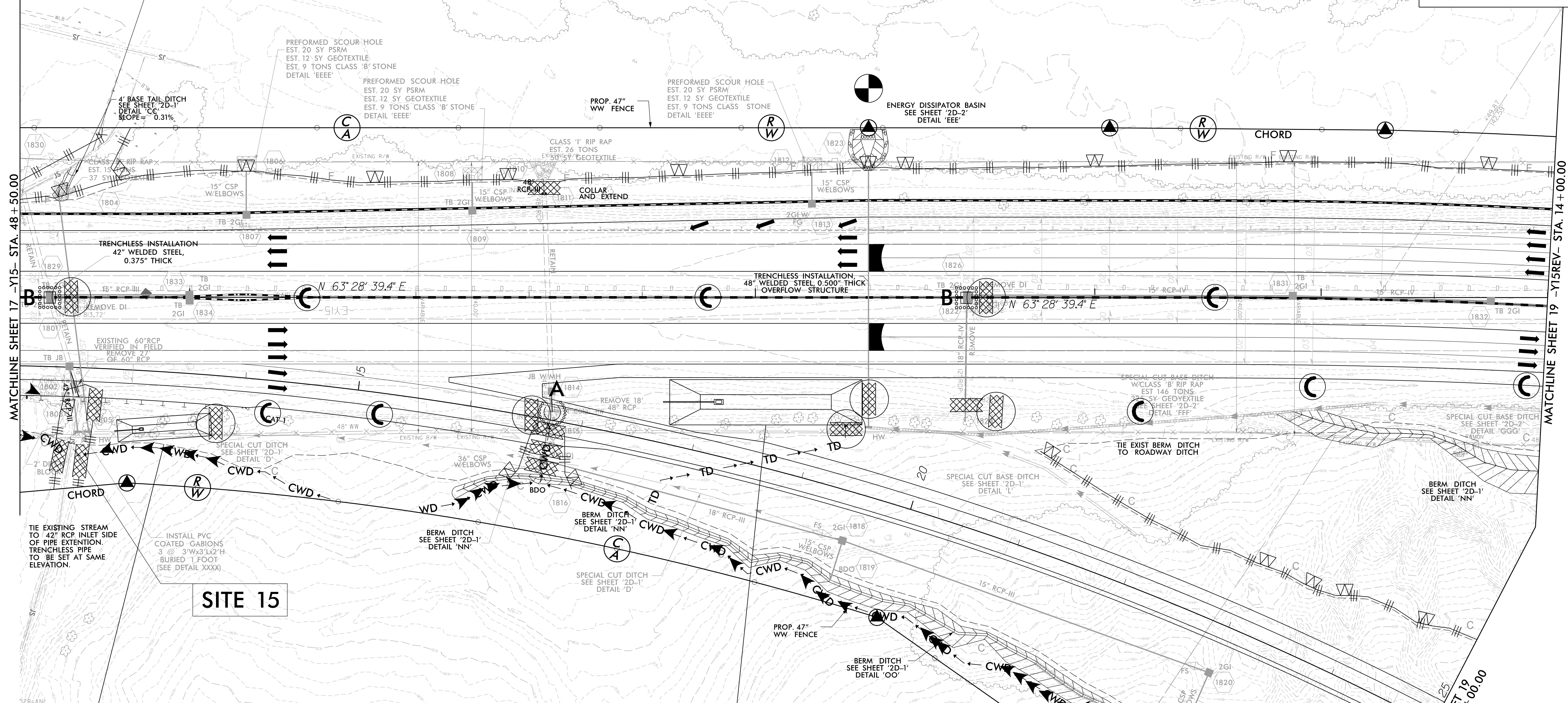
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

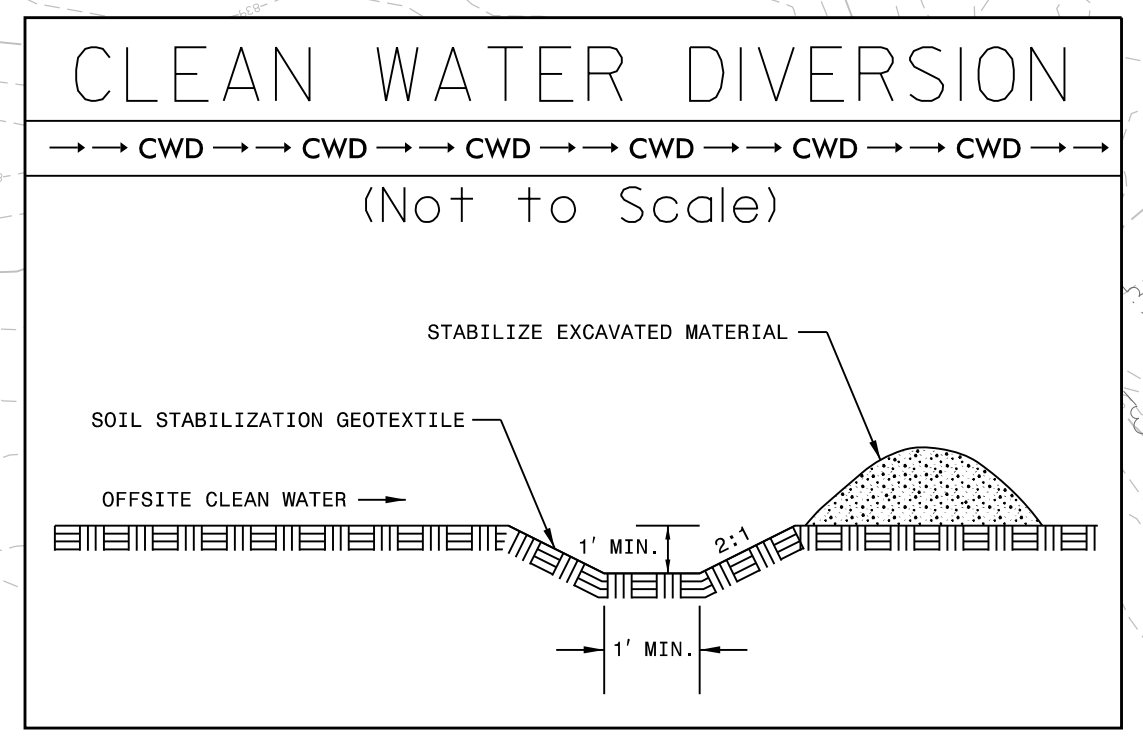
SITE 15



MATCHLINE SHEET 17 -Y15- STA. 48+50.00

MATCHLINE SHEET 19 -Y15REV- STA. 14+00.00

83 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 18.3 B



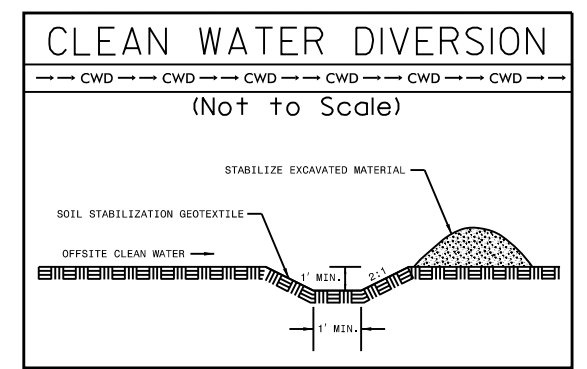
116 x 57 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
26 ft. weir
ID 18.2 B

PAVED SHOULDER

NOTES:
SEE SHEET 47 FOR -Y15- PROFILE
SEE SHEET 47 FOR -Y15REV- PROFILE
SEE SHEET 59 FOR -Y15FLYCA- PROFILE
SEE SHEET 2B-7 FOR MEDIAN CROSSOVER
DESIGN AND TRAFFIC MAINTAINANCE

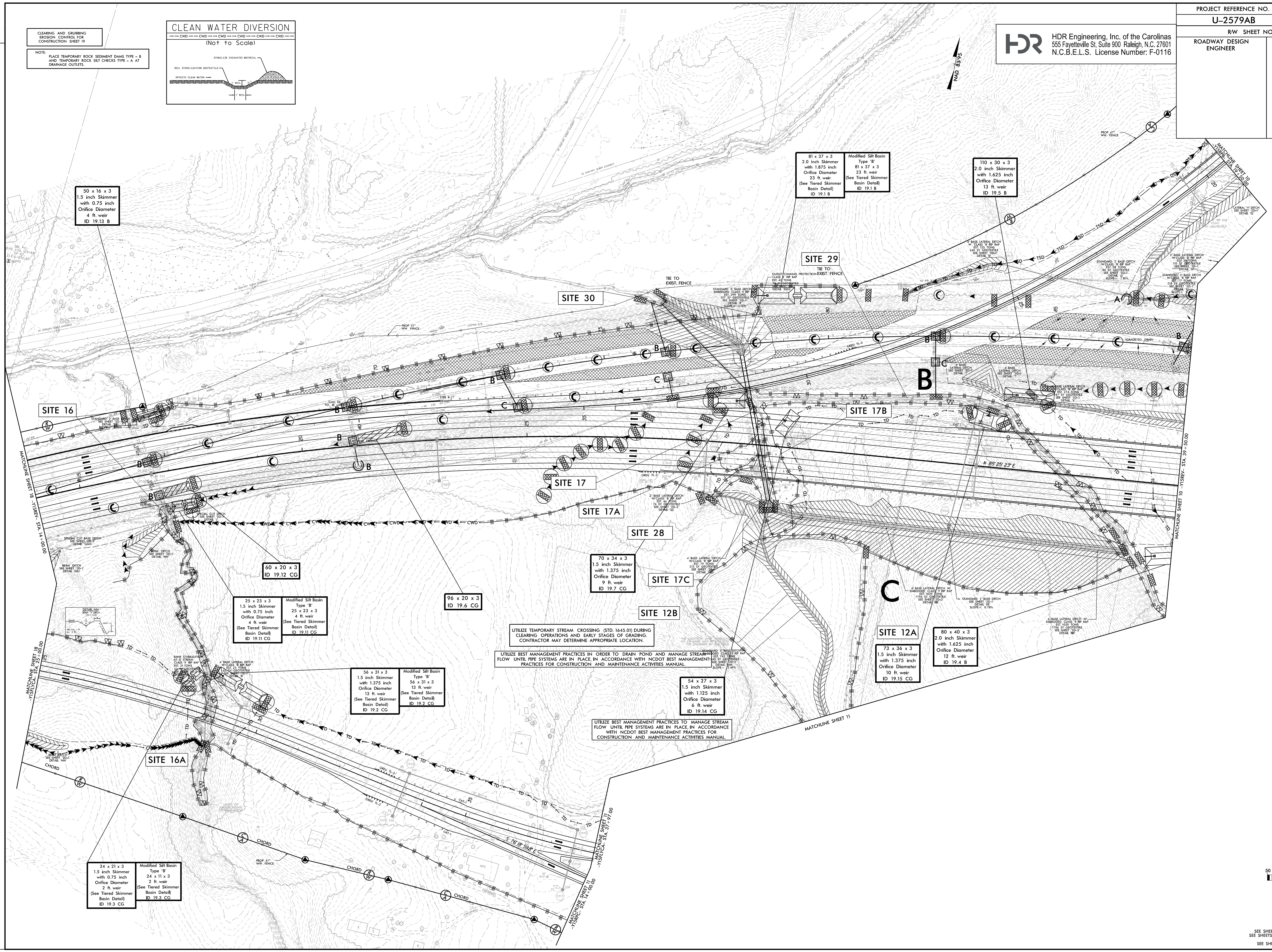
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 REVISIONS

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



50 x 16 x 3
 1.5 inch Skimmer
 with 0.75 inch
 Orifice Diameter
 4 ft. weir
 ID 19.13 B

81 x 37 x 3
 2.0 inch Skimmer
 with 1.875 inch
 Orifice Diameter
 23 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 19.1 B

110 x 30 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft. weir
 ID 19.5 B

SITE 16

SITE 30

SITE 29

SITE 17B

SITE 17

SITE 17A

SITE 28

SITE 17C

SITE 12B

SITE 12A

60 x 20 x 3
 ID 19.12 CG

96 x 20 x 3
 ID 19.6 CG

25 x 23 x 3
 1.5 inch Skimmer
 with 0.75 inch
 Orifice Diameter
 4 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 19.11 CG

56 x 31 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 13 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 19.2 CG

54 x 27 x 3
 1.5 inch Skimmer
 with 1.125 inch
 Orifice Diameter
 6 ft. weir
 ID 19.14 CG

73 x 36 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 10 ft. weir
 ID 19.15 CG

80 x 40 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 12 ft. weir
 ID 19.4 B

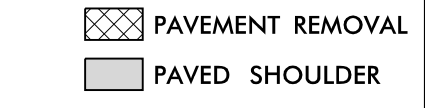
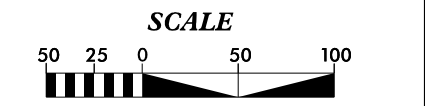
24 x 21 x 3
 1.5 inch Skimmer
 with 0.75 inch
 Orifice Diameter
 2 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 19.3 CG

SITE 16A

UTILIZE TEMPORARY STREAM CROSSING (STD. 1645.01) DURING CLEARING OPERATIONS AND EARLY STAGES OF GRADING. CONTRACTOR MAY DETERMINE APPROPRIATE LOCATION.

UTILIZE BEST MANAGEMENT PRACTICES IN ORDER TO DRAIN POND AND MANAGE STREAM FLOW UNTIL PIPE SYSTEMS ARE IN PLACE IN ACCORDANCE WITH NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

UTILIZE BEST MANAGEMENT PRACTICES TO MANAGE STREAM FLOW UNTIL PIPE SYSTEMS ARE IN PLACE IN ACCORDANCE WITH NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.



SEE SHEETS 47 AND 48 FOR -Y15REV- PROFILE
 SEE SHEETS 59 AND 60 FOR -Y15RVC- PROFILE
 SEE SHEET 64 FOR -Y15BPC- PROFILE
 SEE SHEET 63 AND 64 FOR -Y15RBP- PROFILE


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REVISIONS

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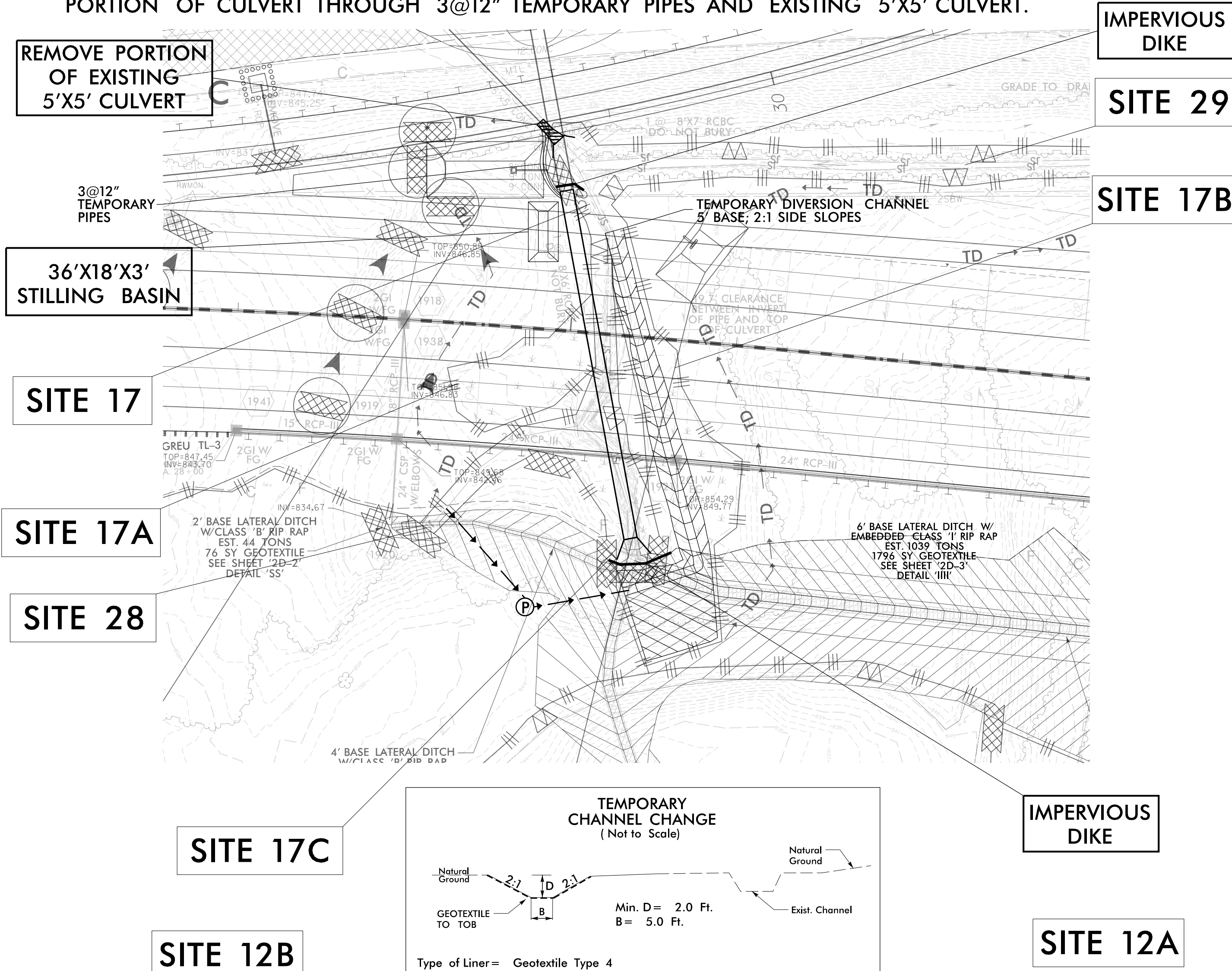
DATE: 7/16/2021

CULVERT CONSTRUCTION SEQUENCE STA. 30+13 -Y15REV-

PROJECT REFERENCE NO. U-2579AB	SHEET NO. EC-19A/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PHASE 1

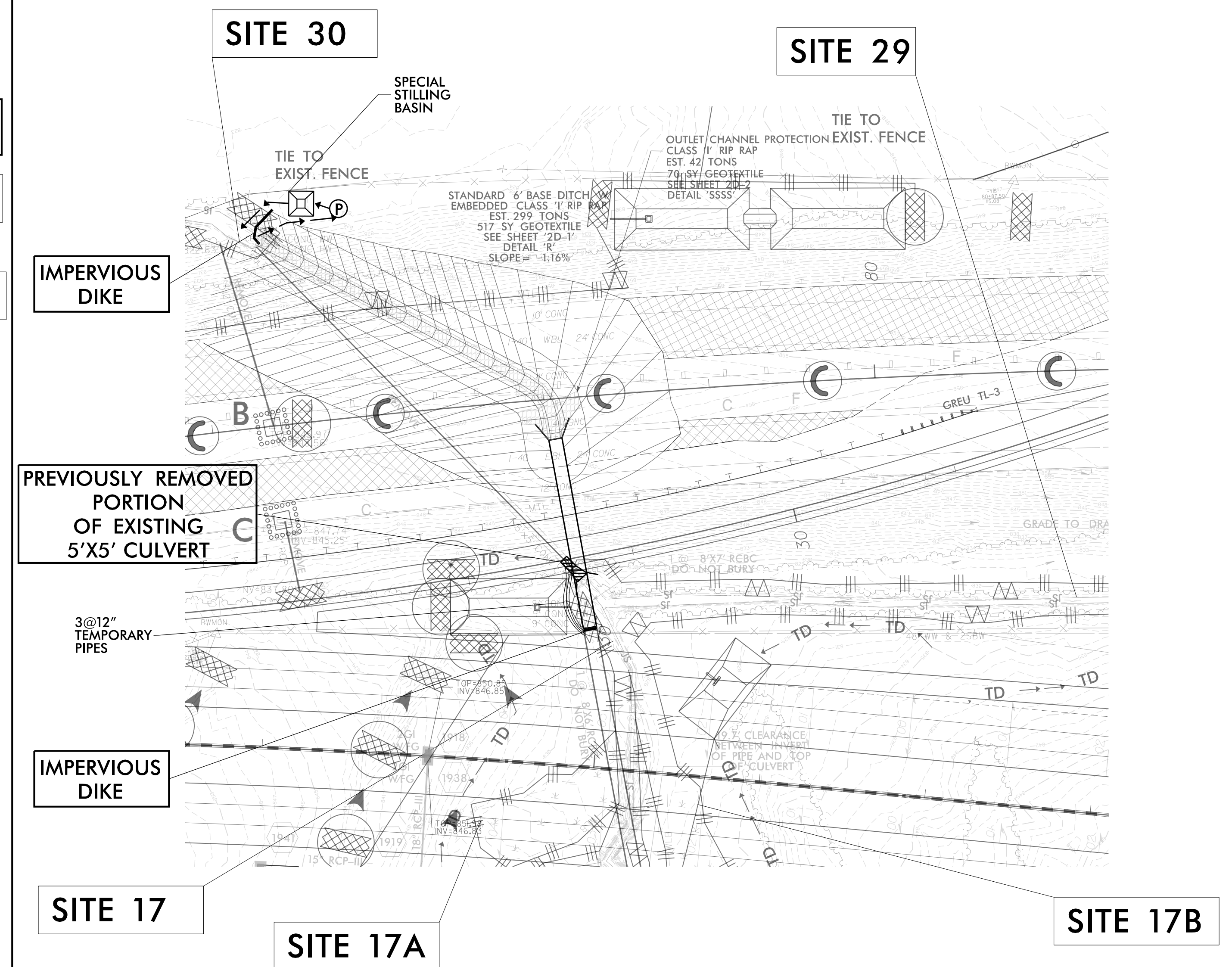
1. CONSTRUCT 36'X18'X3' STILLING BASIN.
2. CONSTRUCT 5' BASE TEMPORARY CHANNEL CHANGE WITH LINER. SECURE INLET AND OUTLET OF CHANNEL.
3. UTILIZE STILLING BASIN, TEMPORARY DIKES AND BYPASS PUMPS TO TIE TEMPORARY CHANNEL CHANGE INTO STREAM.
4. AROUND THE WORK AREA INTO THE TEMPORARY CHANNEL CHANGE.
5. CONSTRUCT 212'-4" OF THE CULVERT USING STILLING BASIN AND PUMP TO DE-WATER THE WORK ZONE.
6. INSTALL BLOCKOUT AND 3@12" TEMPORARY PIPES AT OUTLET END OF NEWLY INSTALLED PORTION OF CULVERT.
7. REMOVE PORTION OF EXISTING 5'X5' CULVERT USING TEMPORARY BYPASS PUMPING OPERATION AND TIE 3 @ 12" TEMPORARY PIPES TO EXISTING 5'X5' CULVERT.
8. CONSTRUCT AND STABILIZE 2' BASE LATERAL DITCH, 4' BASE LATERAL DITCH, AND 6' BASE LATERAL DITCH TYING TO INLET OF CULVERT.
9. REMOVE STILLING BASIN AND IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED PORTION OF CULVERT THROUGH 3@12" TEMPORARY PIPES AND EXISTING 5'X5' CULVERT.



NOTE: CONTRACTOR TO USE BERMS AS NEEDED TO MAINTAIN A MINIMUM 2' DEPTH OF THE TEMPORARY CHANNEL CHANGE.

PHASE 2

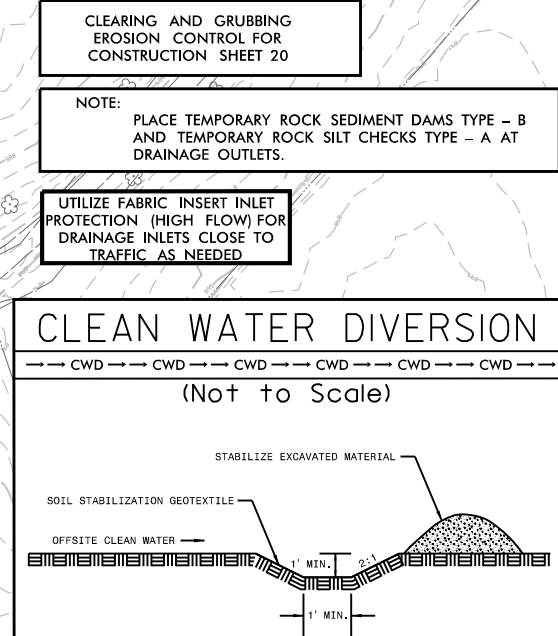
1. CONSTRUCT THE REMAINING PORTION OF THE CULVERT USING SPECIAL STILLING BASIN(S) AND PUMP TO DE-WATER THE WORK ZONE.
2. UTILIZE TEMPORARY DIKE(S) AND BYPASS PUMP(S) AS NEEDED TO CONSTRUCT OUTLET CHANNEL IMPROVEMENTS.
3. REMOVE 3@12" TEMPORARY PIPES AND TEMPORARY DIKE(S) TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.
4. REMOVE REMAINING PORTION OF EXISTING 5'X5' CULVERT.



NOTE: 3@12" TEMPORARY PIPES ARE INTENDED TO PASS NORMAL FLOW ONLY. CONTRACTOR TO STABILIZE WORK AREA IN ADVANCE OF STORM EVENTS.

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-20CONST. 20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116



72 x 36 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 10 ft. weir
 ID 20.10 CG

45 x 62 x 3
 2.0 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 21 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 20.4 B

Modified Silt Basin
 Type 'B'
 45 x 62 x 3
 21 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 20.4 B

40 x 30 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 9 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 20.3 B

Modified Silt Basin
 Type 'B'
 40 x 30 x 3
 9 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 20.3 B

38 x 91 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft. weir
 ID 20.12 CG

50 x 24 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 5 ft. weir
 ID 20.11 B

80 x 27 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 8 ft. weir
 ID 20.8 CG

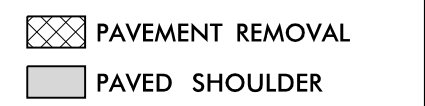
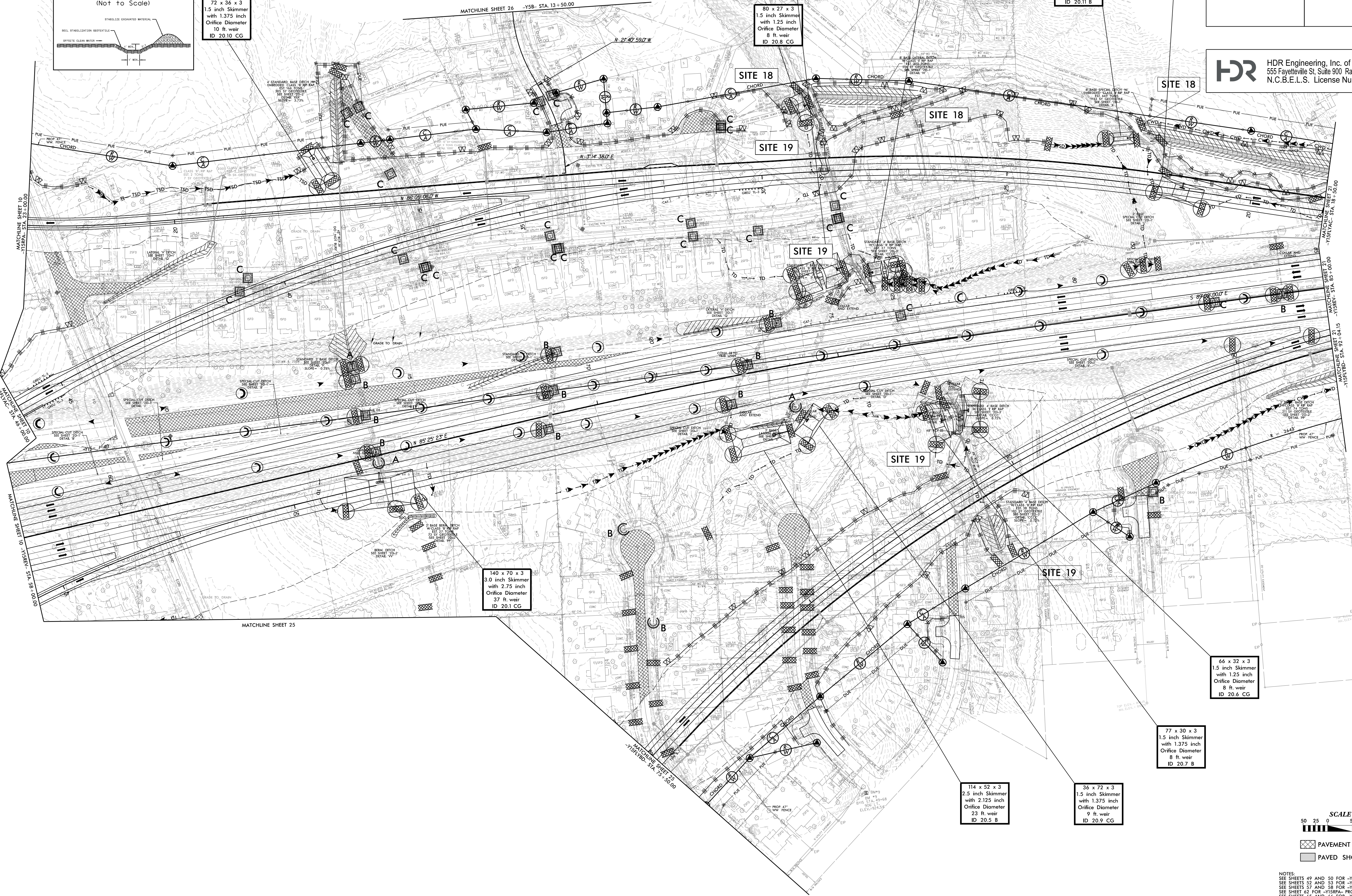
140 x 70 x 3
 3.0 inch Skimmer
 with 2.75 inch
 Orifice Diameter
 37 ft. weir
 ID 20.1 CG

66 x 32 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 8 ft. weir
 ID 20.6 CG

77 x 30 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 8 ft. weir
 ID 20.7 B

114 x 52 x 3
 2.5 inch Skimmer
 with 2.125 inch
 Orifice Diameter
 23 ft. weir
 ID 20.5 B

36 x 72 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID 20.9 CG




NOTES:
 SEE SHEETS 49 AND 50 FOR -Y15REV- PROFILE
 SEE SHEETS 52 AND 53 FOR -Y15FLVAC- PROFILE
 SEE SHEETS 57 AND 58 FOR -Y15FLYBD- PROFILE
 SEE SHEET 60 FOR -Y15RPA- PROFILE
 SEE SHEETS 65 AND 66 FOR -Y15RFBREV- PROFILE
 SEE SHEETS 28-8 FOR MEDIAN CROSSOVER DESIGN AND TRAFFIC MAINTENANCE
 SEE SHEETS 52 AND 53 FOR -Y15FLVAC- PROFILE
 SEE SHEETS 57 AND 58 FOR -Y15FLYBD- PROFILE
 SEE SHEET 60 FOR -Y15RPA- PROFILE
 SEE SHEET 67 FOR -Y15RPA- PROFILE
 SEE SHEET 28-8 FOR MEDIAN CROSSOVER DESIGN AND TRAFFIC MAINTENANCE

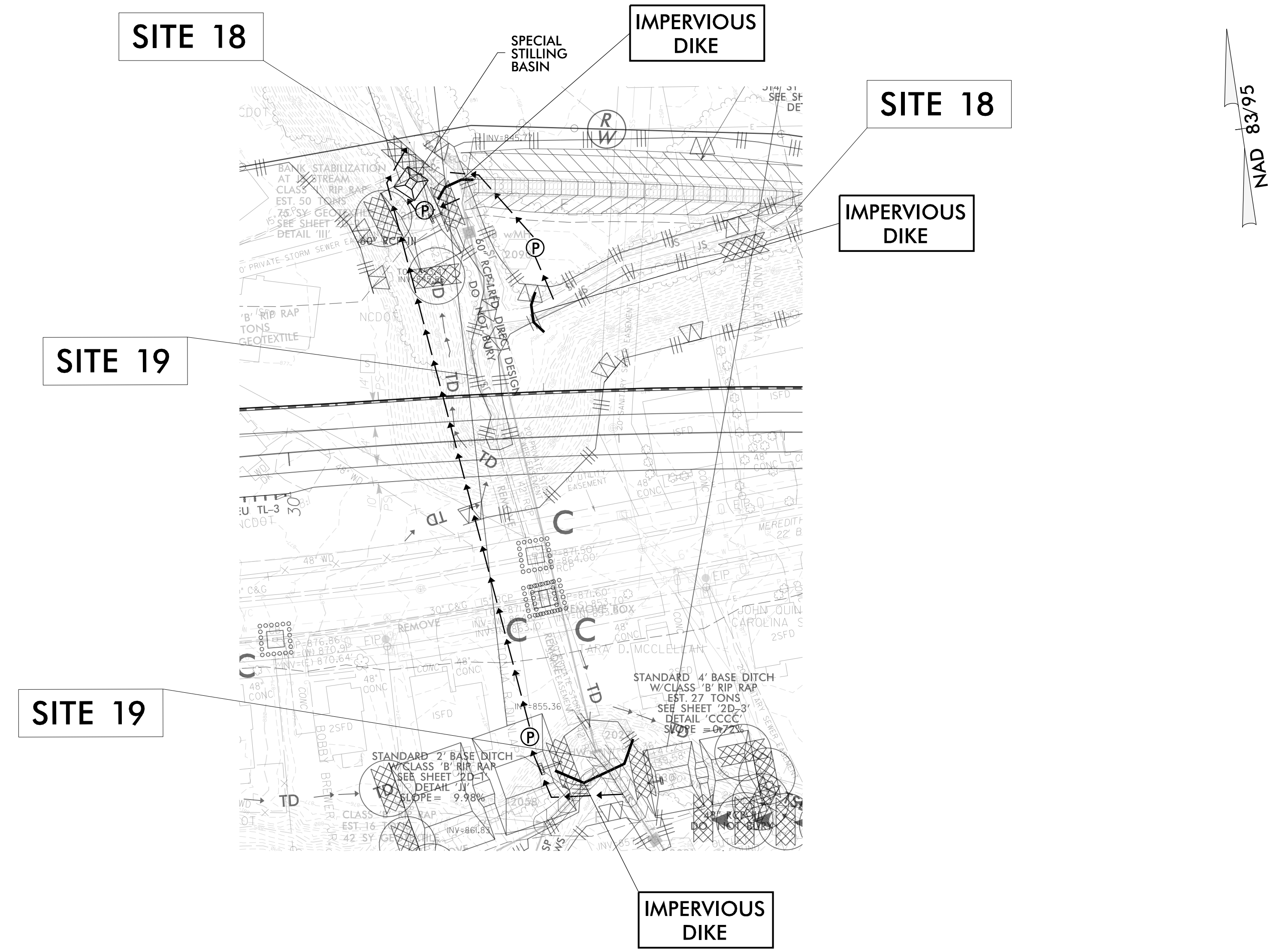
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CULVERT CONSTRUCTION SEQUENCE STA. 28+60 -Y15FLYAC-

PROJECT REFERENCE NO. <i>U-2579AB</i>	SHEET NO. <i>EC-20A/CONST.20</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

1. INSTALL IMPERVIOUS DIKES AND USE PUMP-AROUND OPERATIONS TO DIVERT STREAM FLOW AROUND WORK SITE.
2. REMOVE EXISTING 42" RCP.
3. INSTALL 60" RCP UTILIZING PUMP AND SPECIAL STILLING BASIN(S) FOR DEWATERING OF THE WORK ZONE.
4. REMOVE IMPERVIOUS DIKES AND ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED 60" RCP.



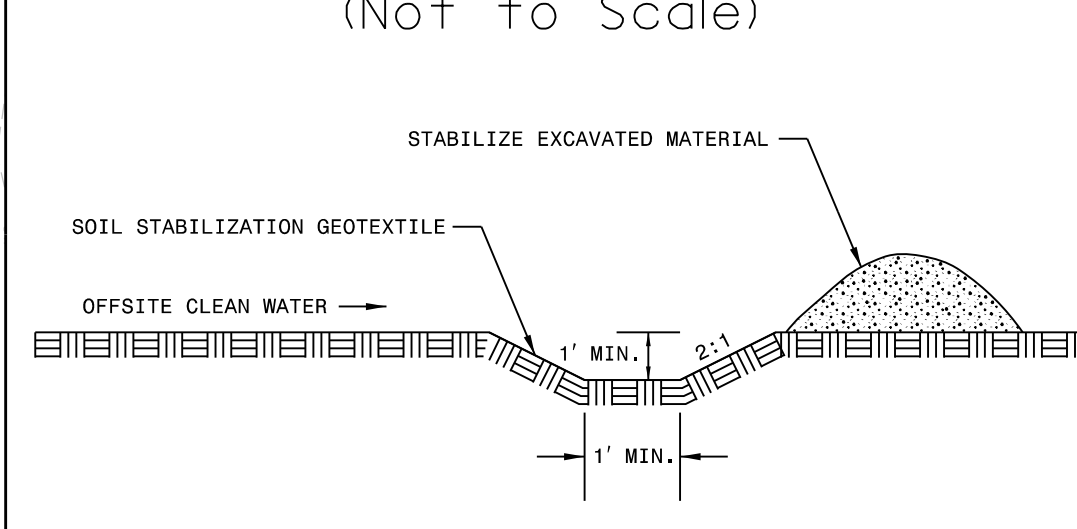
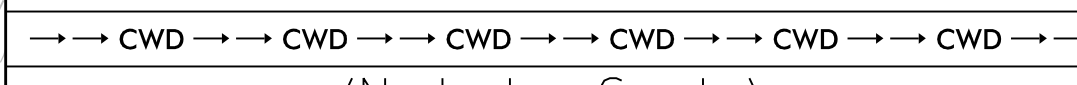
PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-21CONST. 21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

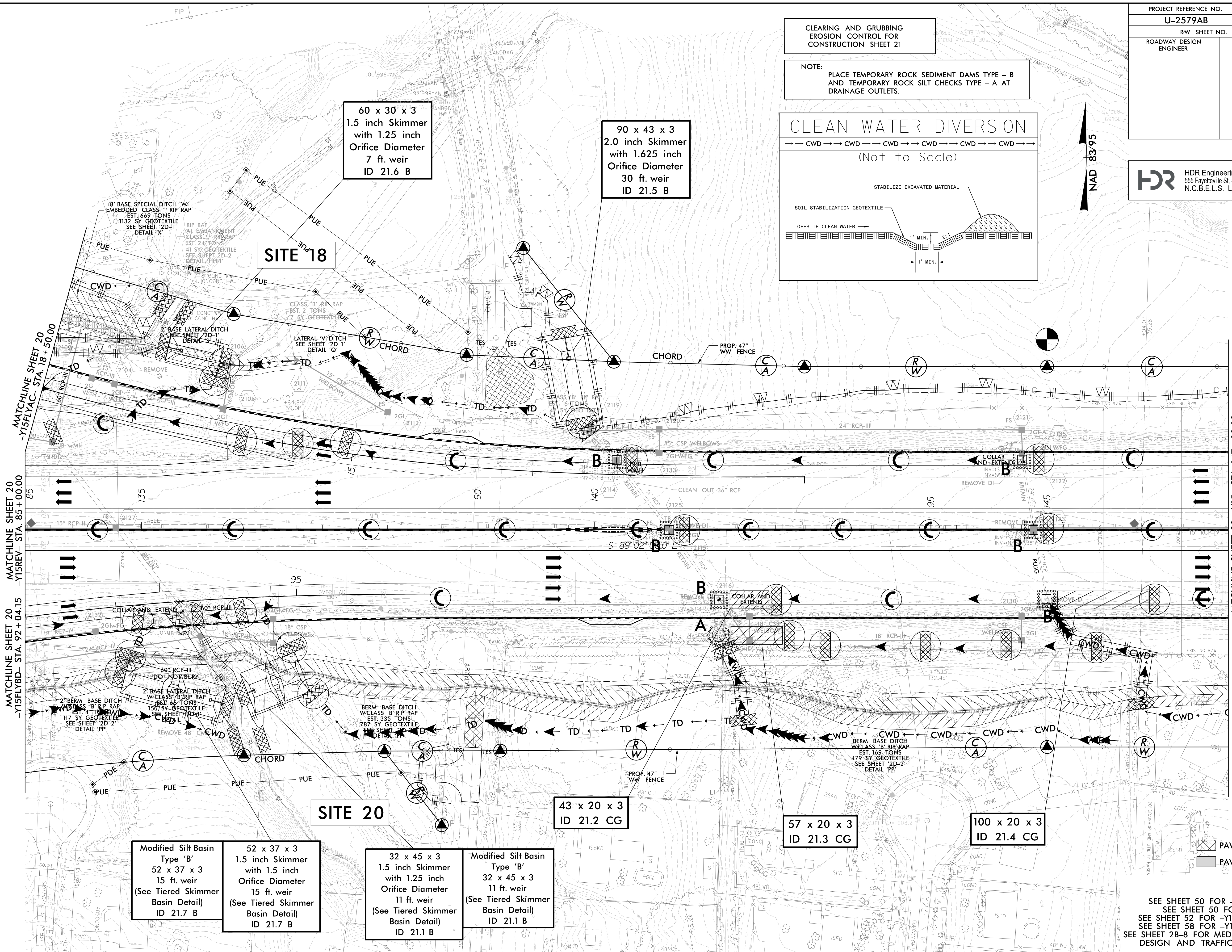
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEAN WATER DIVERSION



NAD 83/95



60 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 21.6 B

90 x 43 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
30 ft. weir
ID 21.5 B

SITE 18

SITE 20

Modified Silt Basin
Type 'B'
52 x 37 x 3
15 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 21.7 B

52 x 37 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
15 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 21.7 B

32 x 45 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 21.1 B

Modified Silt Basin
Type 'B'
32 x 45 x 3
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 21.1 B

43 x 20 x 3
ID 21.2 CG

57 x 20 x 3
ID 21.3 CG


100 x 20 x 3
ID 21.4 CG

PAVEMENT REMOVAL
PAVED SHOULDER

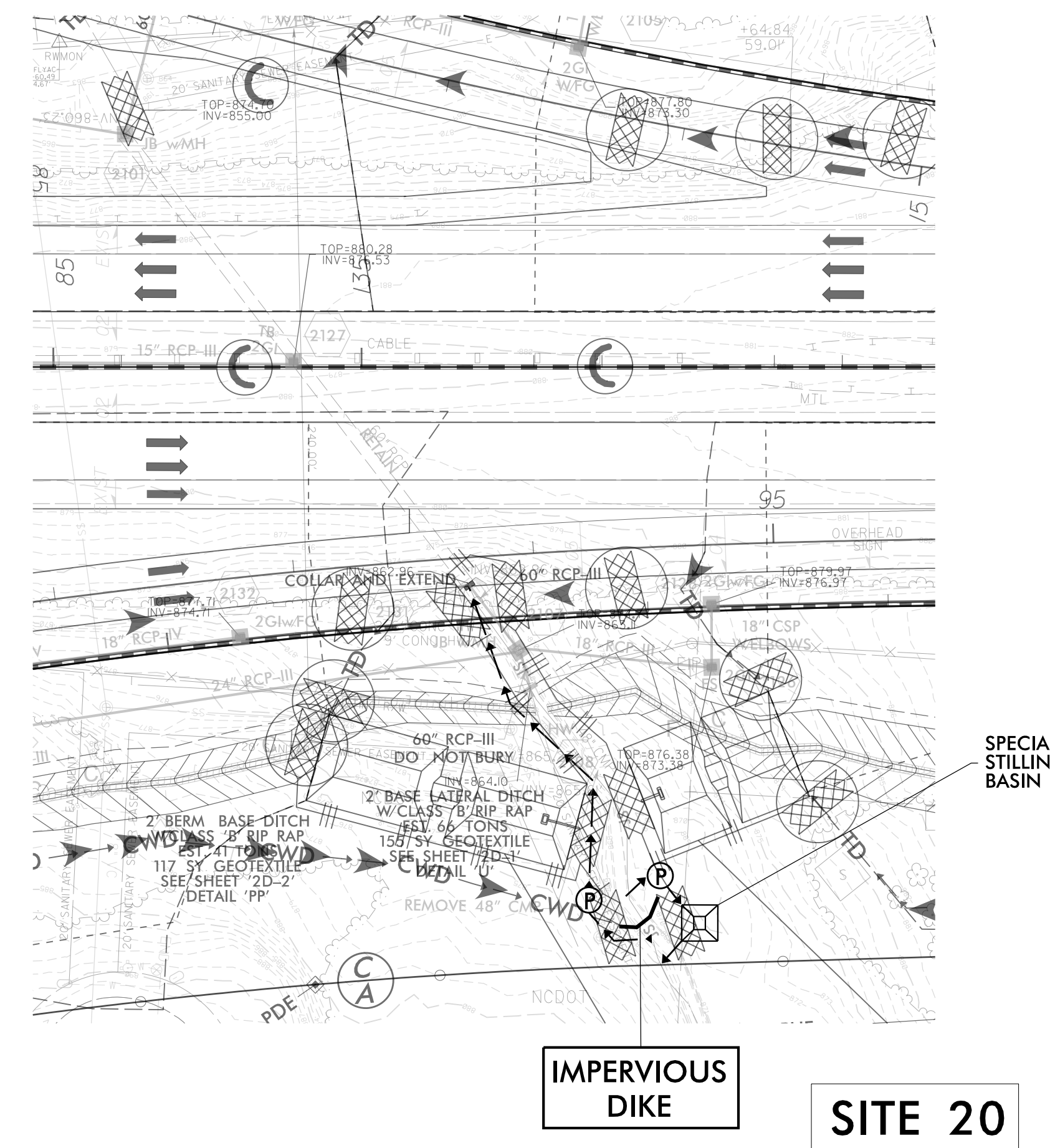
NOTES:
SEE SHEET 50 FOR -Y15REV- PROFILE
SEE SHEET 50 FOR -Y15- PROFILE
SEE SHEET 52 FOR -Y15FLYAC- PROFILE
SEE SHEET 58 FOR -Y15FLYBD- PROFILE
SEE SHEET 2B-8 FOR MEDIAN CROSSOVER
DESIGN AND TRAFFIC MAINTAINANCE

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CULVERT CONSTRUCTION SEQUENCE STA. 134+75 -Y15-

PROJECT REFERENCE NO. <i>U-2579AB</i>		SHEET NO. <i>EC-21A/CONST.21</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

1. INSTALL IMPERVIOUS DIKE AND USE PUMP-AROUND OPERATION TO DIVERT STREAM FLOW THROUGH EXISTING 60" RCP.
2. INSTALL NEW 60" RCP AND 60" RCP EXTENSION UTILIZING PUMP AND SPECIAL STILLING BASIN(S) FOR DEWATERING OF THE WORK ZONE.
3. CONTINUE PUMPING THROUGH THE EXISTING PIPE AS NEW SECTIONS OF THE EXTENSION ARE INSTALLED.
4. COMPLETE UPSTREAM CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKE AND ESTABLISH FLOW THROUGH NEW AND EXTENDED 60" RCP'S.



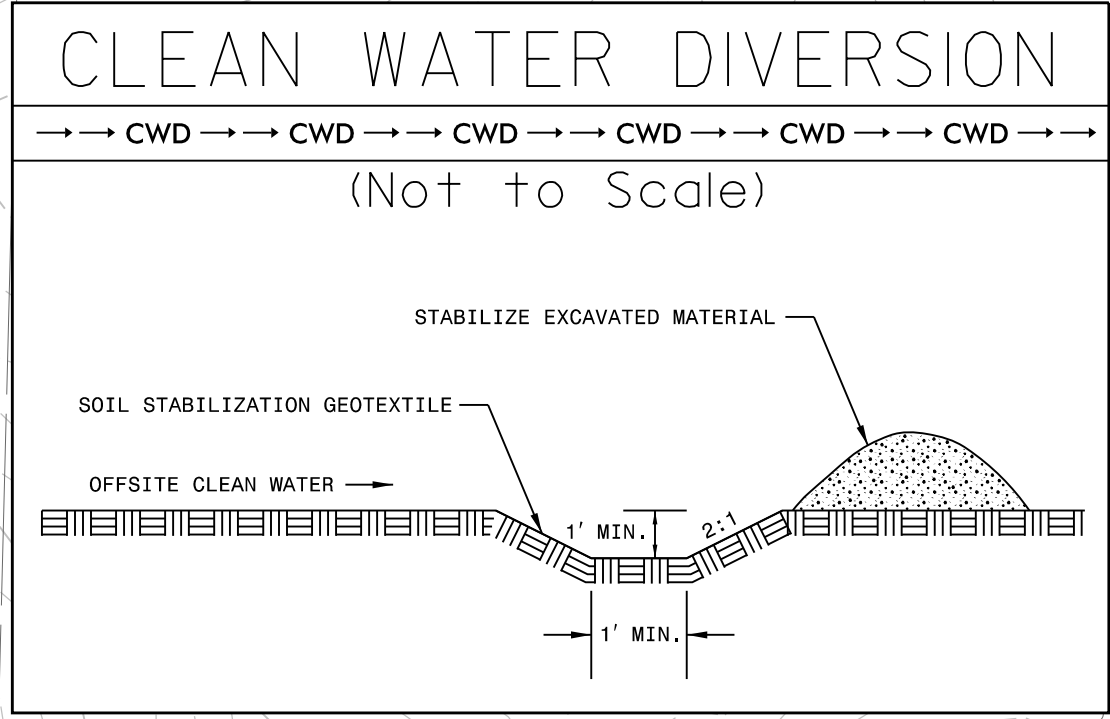
NAD 83/95

PROJECT REFERENCE NO. U-2579AB	SHEET NO. EC-22CONSTR. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 22

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



UTILIZE BEST MANAGEMENT PRACTICES IN ORDER TO MANAGE STREAM FLOW
UNTIL PIPE SYSTEMS ARE IN PLACE, IN ACCORDANCE WITH NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

50 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 22.1 B

Modified Silt Basin
Type 'B'
50 x 30 x 3
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 22.1 B

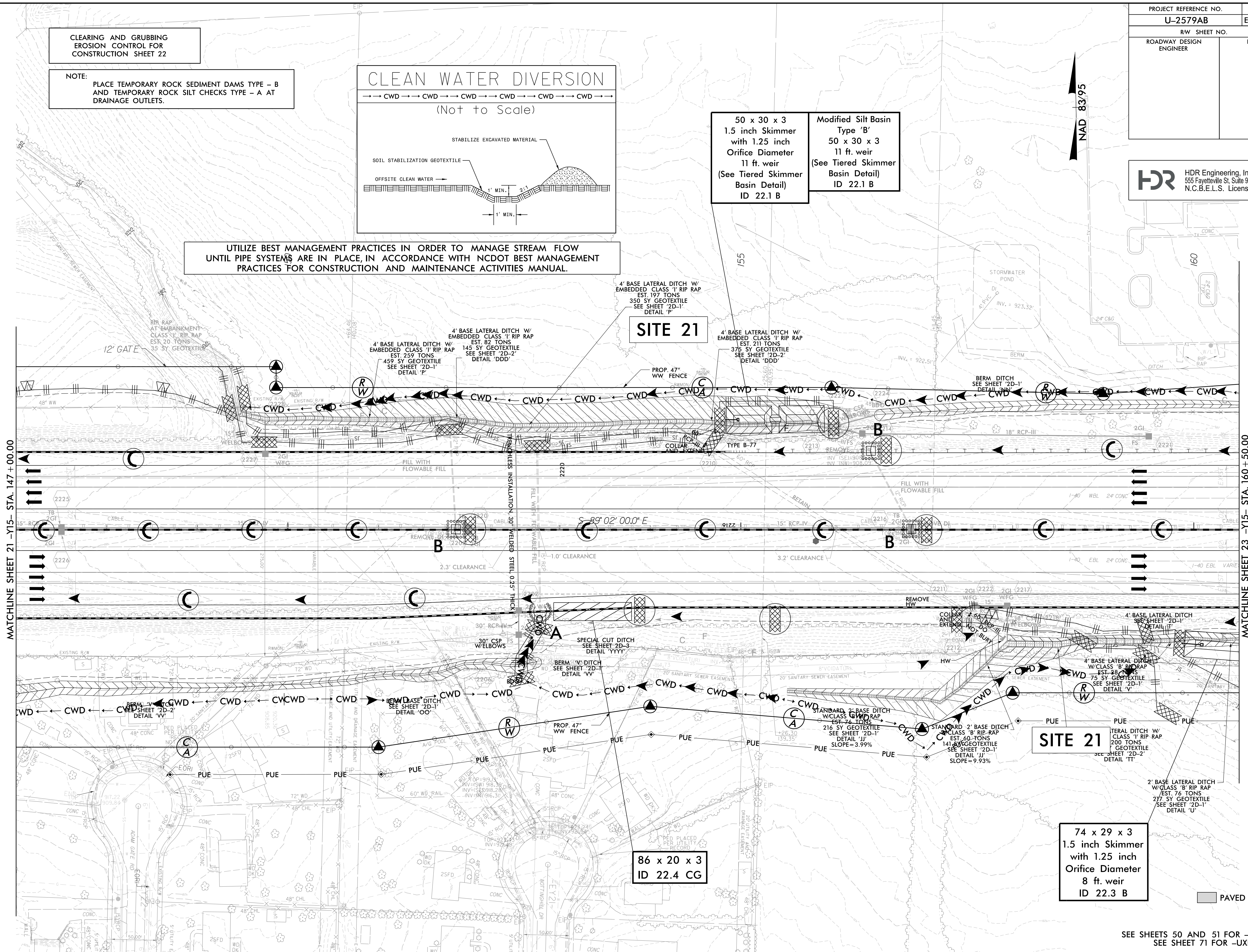
SITE 21

SITE 21

86 x 20 x 3
ID 22.4 CG

74 x 29 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 22.3 B

PAVED SHOULDER




MATCHLINE SHEET 21 -Y15- STA. 147 + 00.00

MATCHLINE SHEET 23 -Y15- STA. 160 + 50.00

REVISIONS

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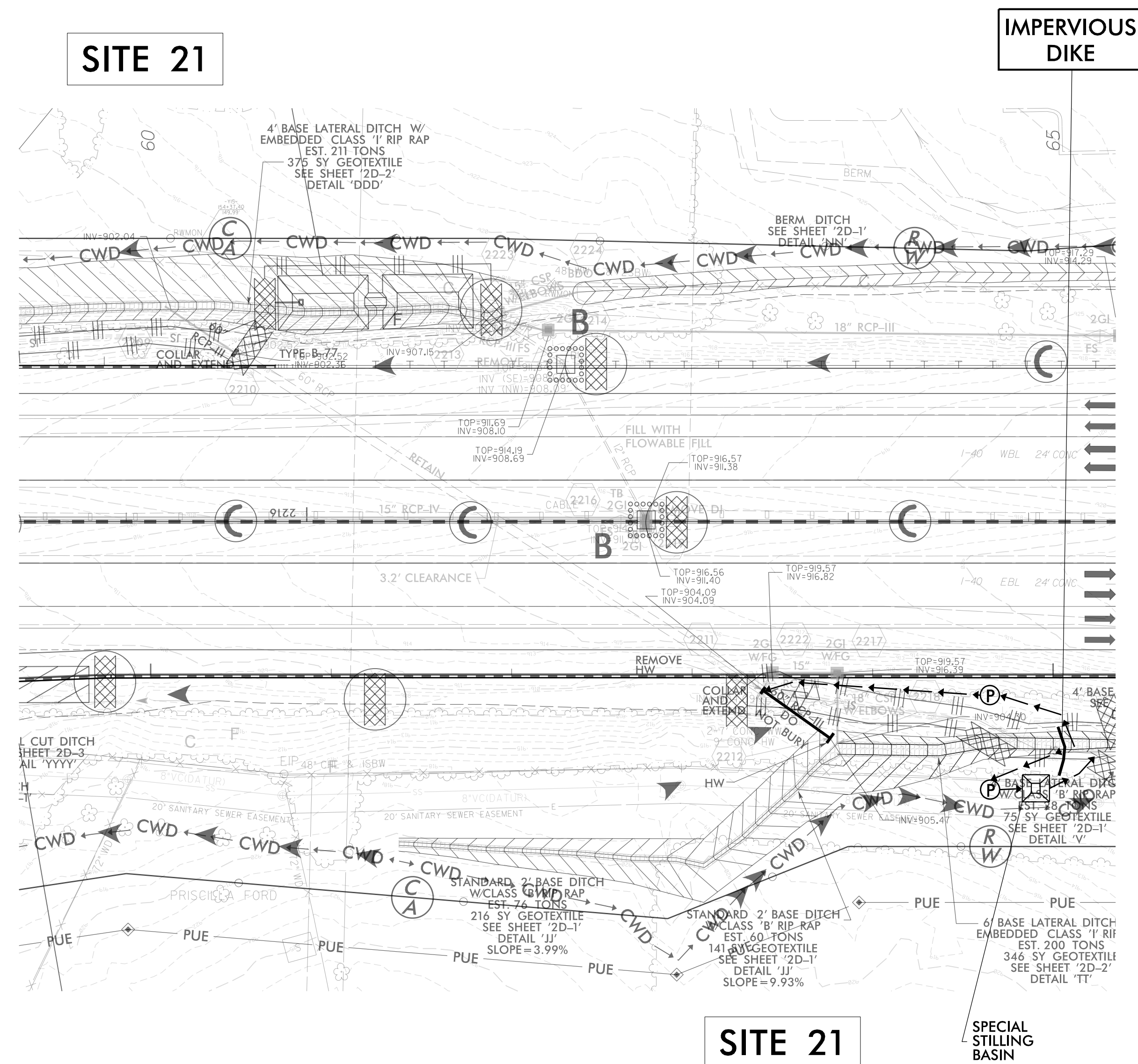
NOTES:
SEE SHEETS 50 AND 51 FOR -Y15- PROFILE
SEE SHEET 71 FOR -UXRPC- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-22A/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

CULVERT CONSTRUCTION SEQUENCE STA. 156 + 06 -Y15-

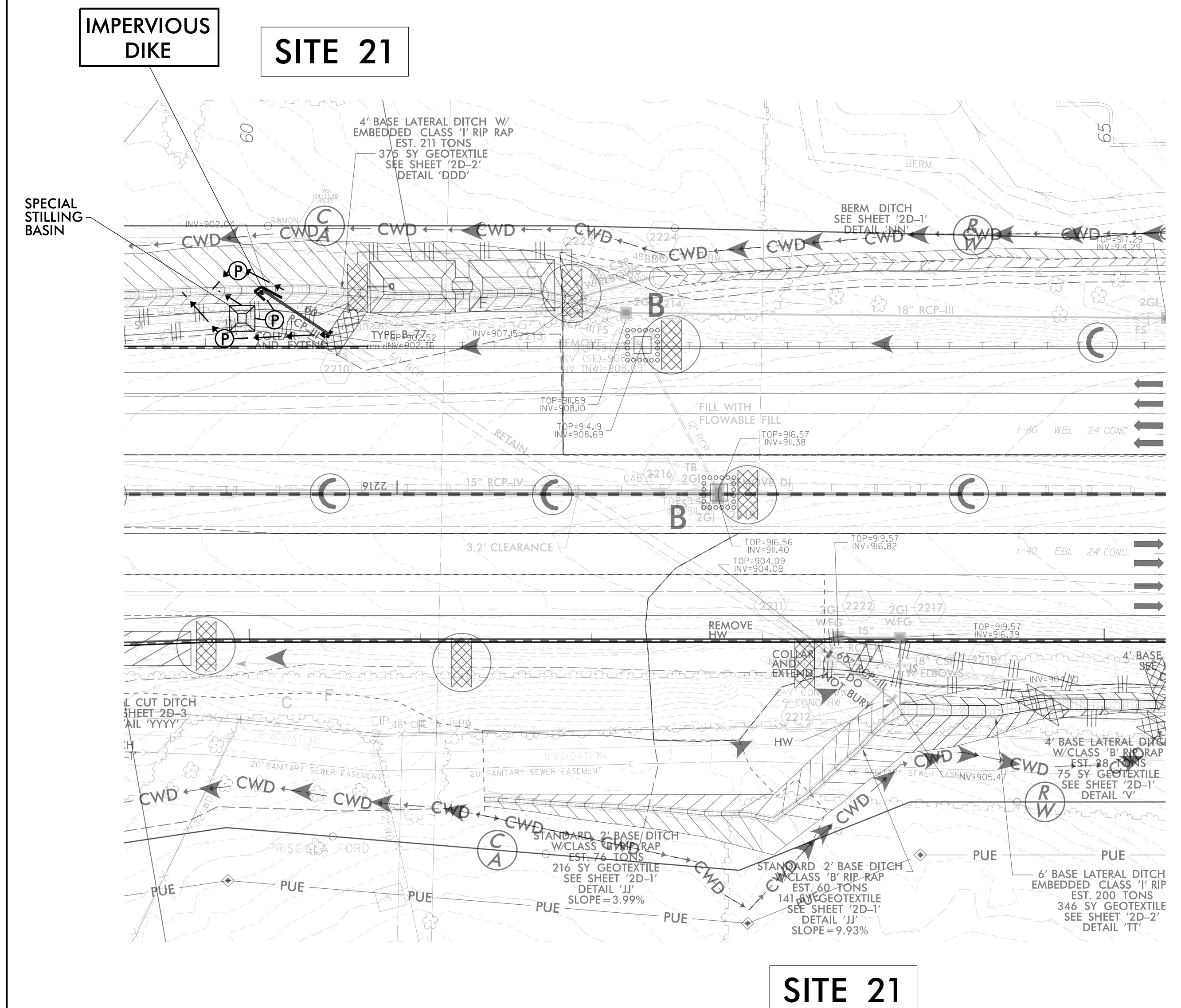
PHASE 1

1. INSTALL IMPERVIOUS DIKE AND USE PUMP-AROUND OPERATION TO DIVERT STREAM FLOW THROUGH EXISTING 60" RCP.
2. INSTALL 60" RCP INLET EXTENSION UTILIZING PUMP AND SPECIAL STILLING BASIN(S) FOR DEWATERING OF THE WORK ZONE.
3. CONTINUE PUMPING THROUGH THE EXISTING PIPE AS NEW SECTIONS OF THE EXTENSION ARE INSTALLED.
4. INSTALL AND STABILIZE 4' BASE LATERAL DITCH AT UPSTREAM END OF 60" RCP INLET EXTENSION.
5. REMOVE IMPERVIOUS DIKE AND ESTABLISH FLOW THROUGH EXTENDED 60" RCP.



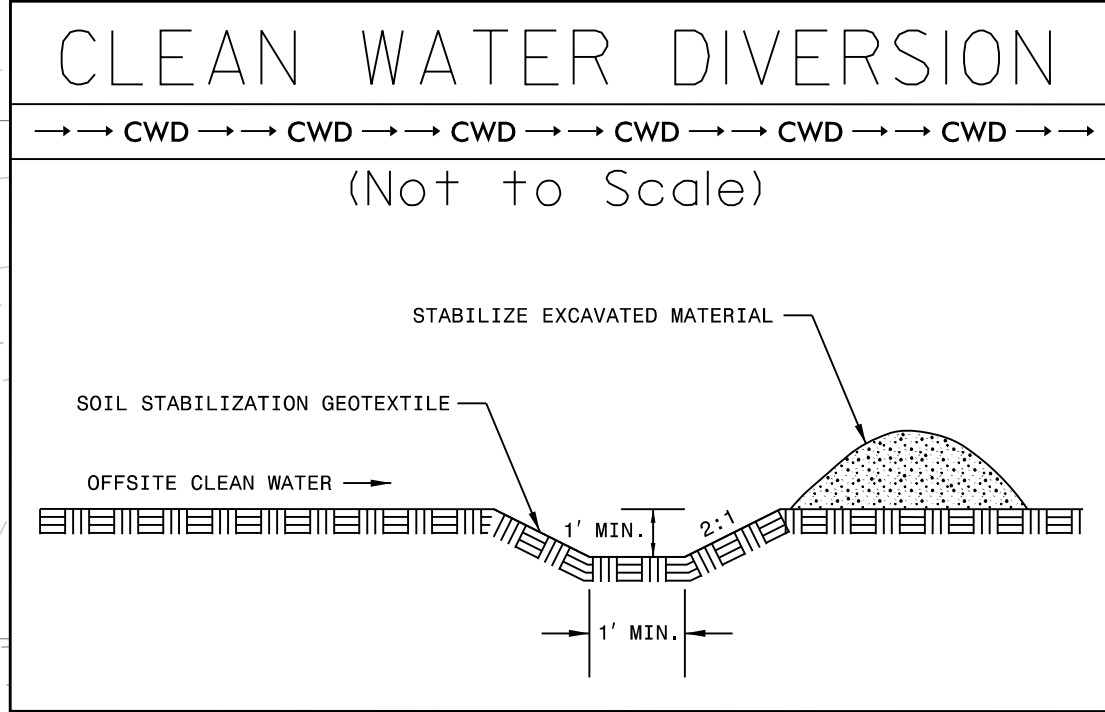
PHASE 2

1. INSTALL AND STABILIZE 4' BASE LATERAL DITCH AT DOWNSTREAM END OF 60" RCP EXTENSION.
2. INSTALL IMPERVIOUS DIKE AND USE PUMP-AROUND OPERATIONS TO DIVERT STREAM FLOW TO STABILIZED DITCH.
3. INSTALL 60" RCP OUTLET EXTENSION UTILIZING PUMP AND SPECIAL STILLING BASIN(S) FOR DEWATERING OF THE WORK ZONE AS NEEDED.
4. REMOVE IMPERVIOUS DIKE AND ESTABLISH FLOW THROUGH EXTENDED 60" RCP.



PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-23CONST. 23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

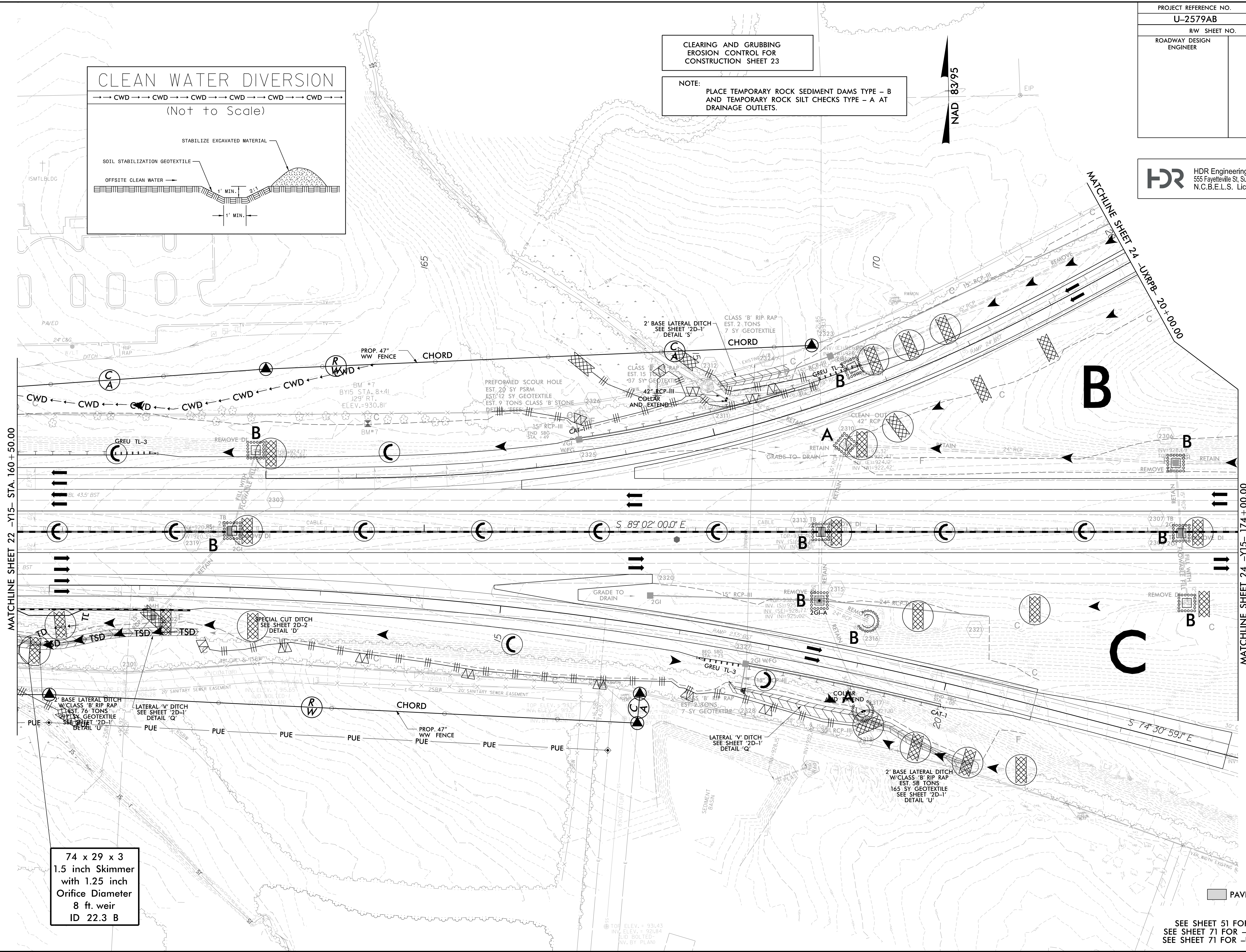
HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NAD 83/95



74 x 29 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 22.3 B

PAVED SHOULDER

NOTES:
SEE SHEET 51 FOR -Y15- PROFILE
SEE SHEET 71 FOR -UXRPB- PROFILE
SEE SHEET 71 FOR -UXRPC- PROFILE

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REVISIONS

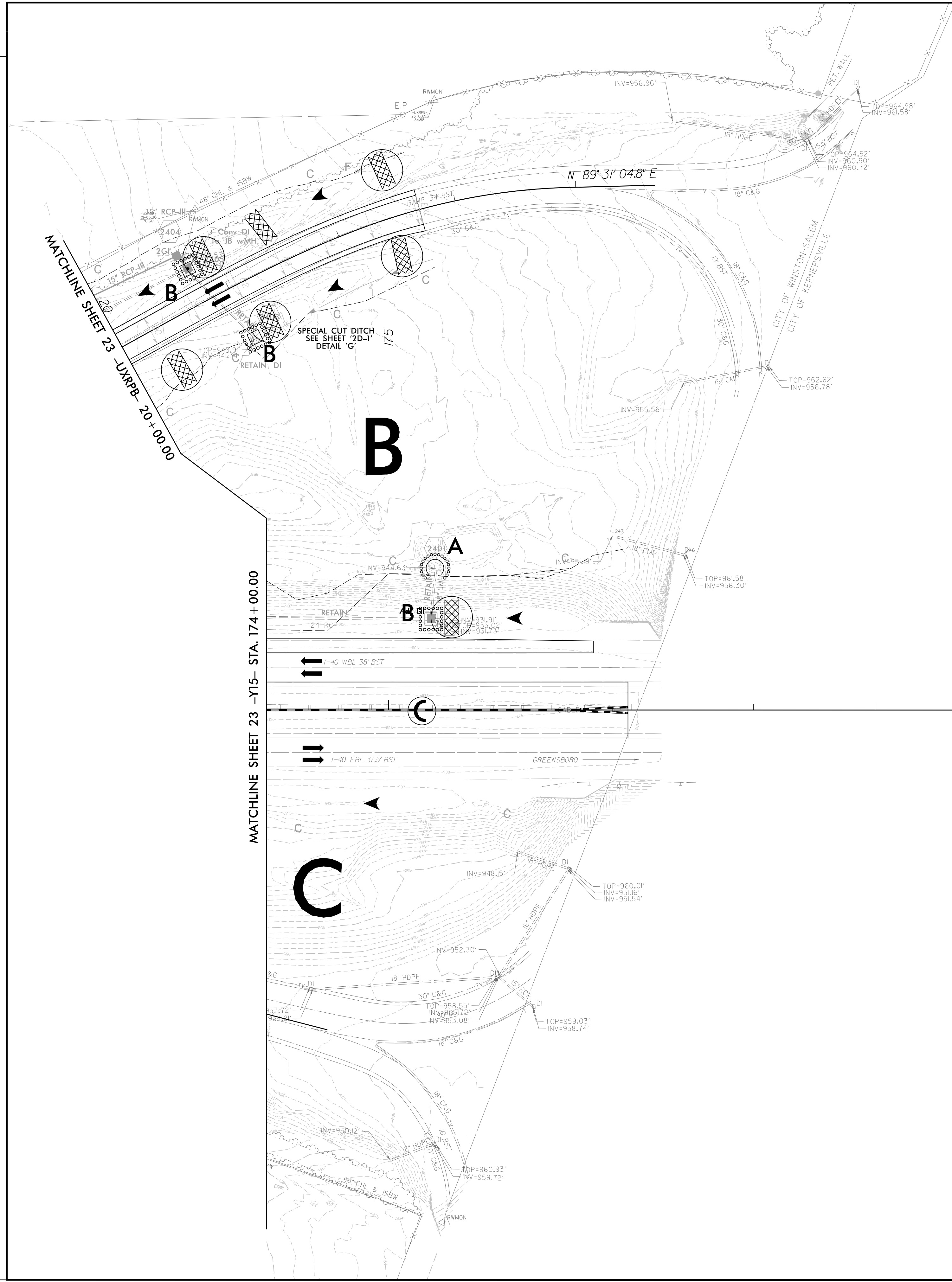
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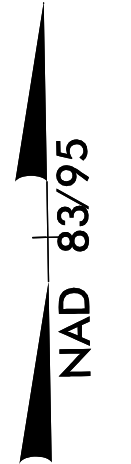
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REVISIONS



PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-24CONST. 24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 24

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

PAVED SHOULDER

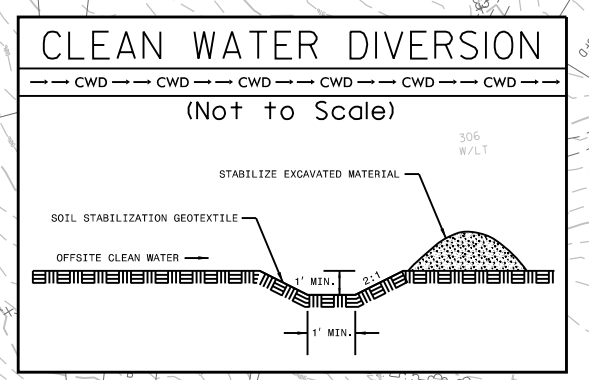
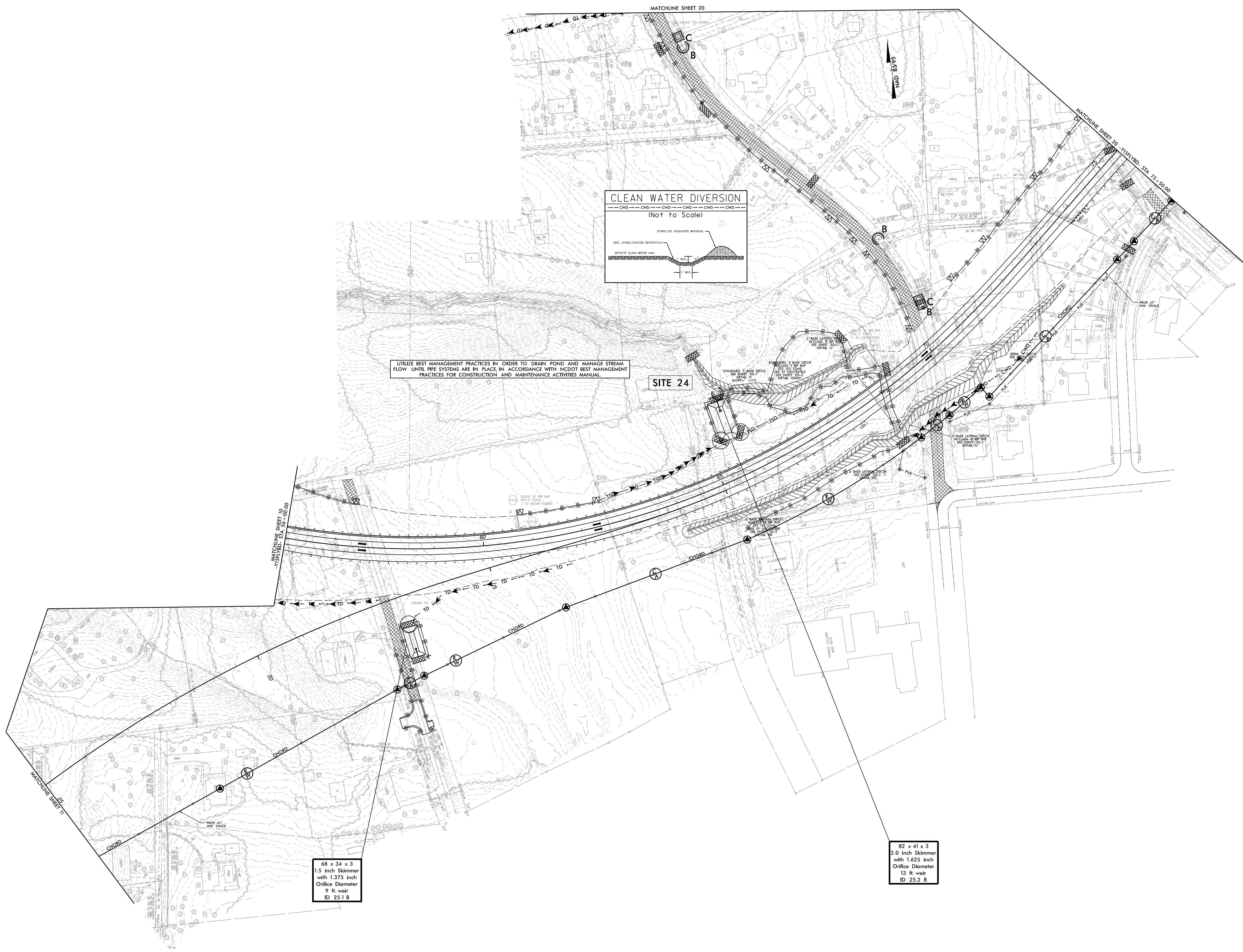
NOTES:
 SEE SHEET 51 FOR -Y15- PROFILE
 SEE SHEET 71 FOR -LXRPB- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-25CONST. 25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

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REVISIONS



UTILIZE BEST MANAGEMENT PRACTICES IN ORDER TO DRAIN POND AND MANAGE STREAM FLOW UNTIL PIPE SYSTEMS ARE IN PLACE IN ACCORDANCE WITH NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

SITE 24

48 x 34 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID: 25.1 B

82 x 41 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft. weir
 ID: 25.2 B

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 25

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

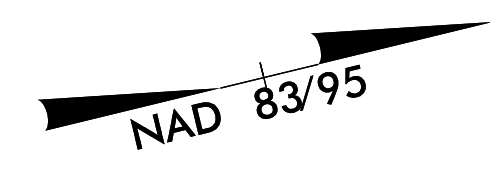
50 25 50 100

PAVEMENT REMOVAL
 PAVED SHOULDER

SEE SHEET 57 FOR -1515LYRD- PROFILE
 SEE SHEETS 65 AND 66 FOR -1518RD- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-26CONSTR. 26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 26

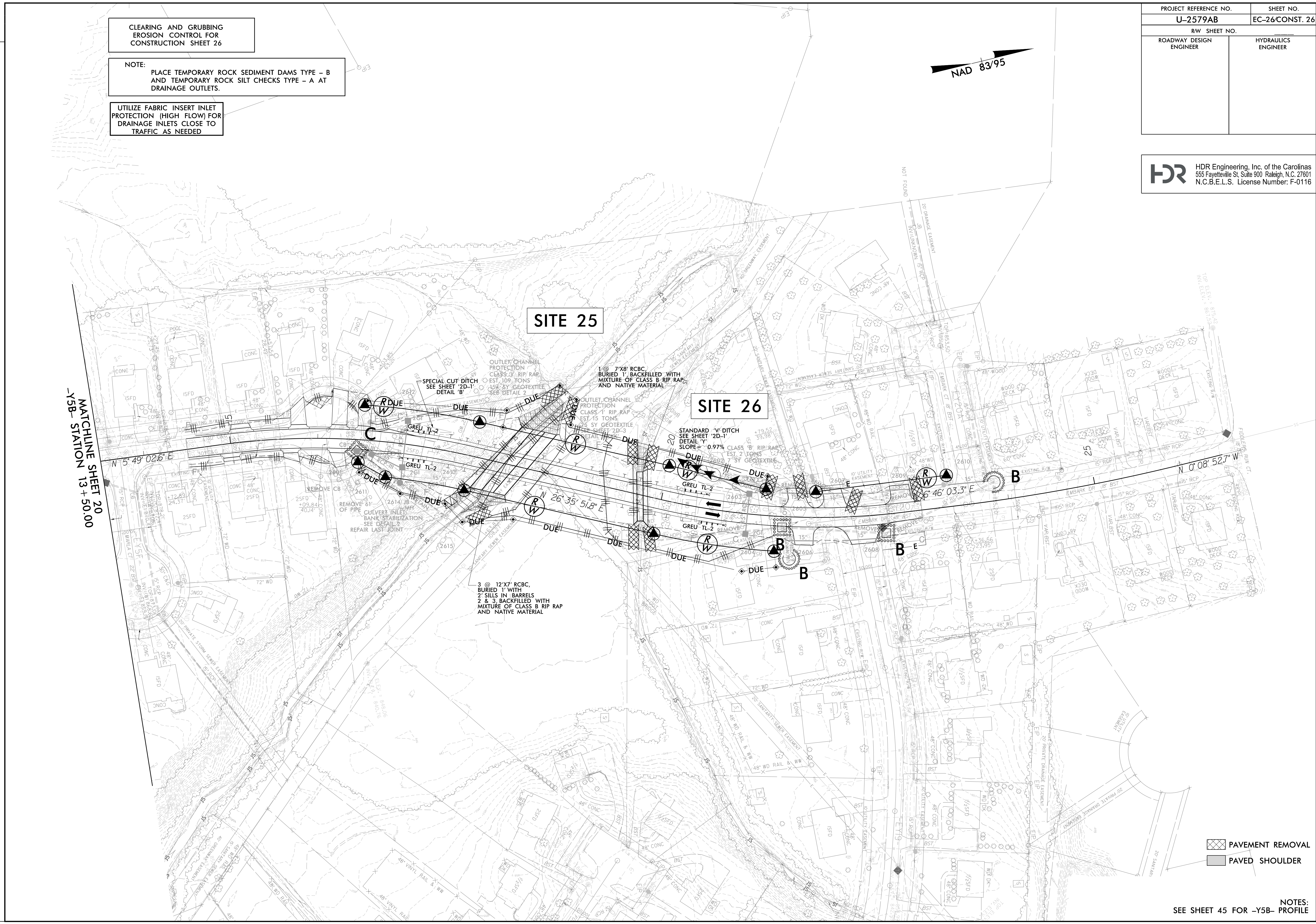
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET
PROTECTION (HIGH FLOW) FOR
DRAINAGE INLETS CLOSE TO
TRAFFIC AS NEEDED

MATCHLINE SHEET 20
-Y5B- STATION 13 + 50.00

SITE 25

SITE 26




PAVEMENT REMOVAL
 PAVED SHOULDER

NOTES:
SEE SHEET 45 FOR -Y5B- PROFILE

REVISIONS

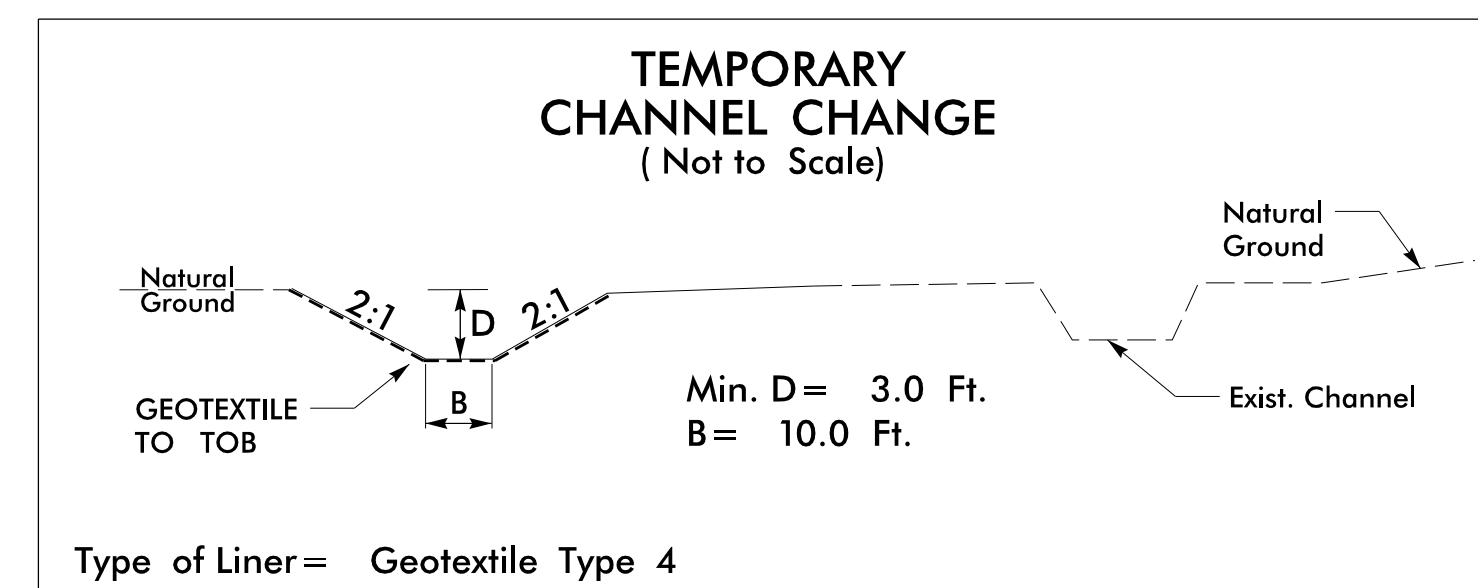
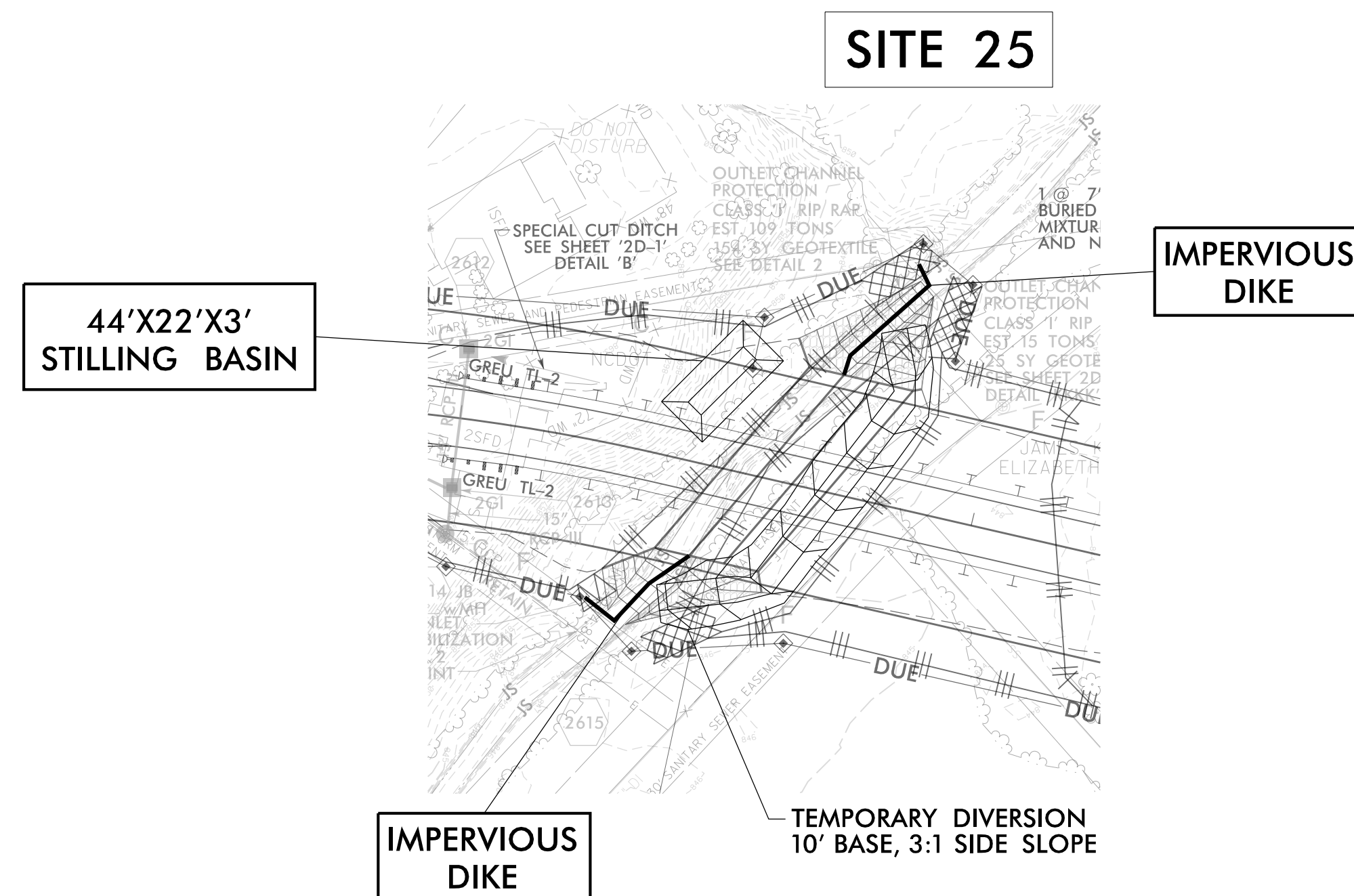
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DATE: 7/16/2021
TIME: 11:54:40 PM

PROJECT REFERENCE NO. <i>U-2579AB</i>	SHEET NO. <i>EC-26A/CONST.26</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

CULVERT CONSTRUCTION SEQUENCE STA. 18+25 -Y5B-

PHASE 1

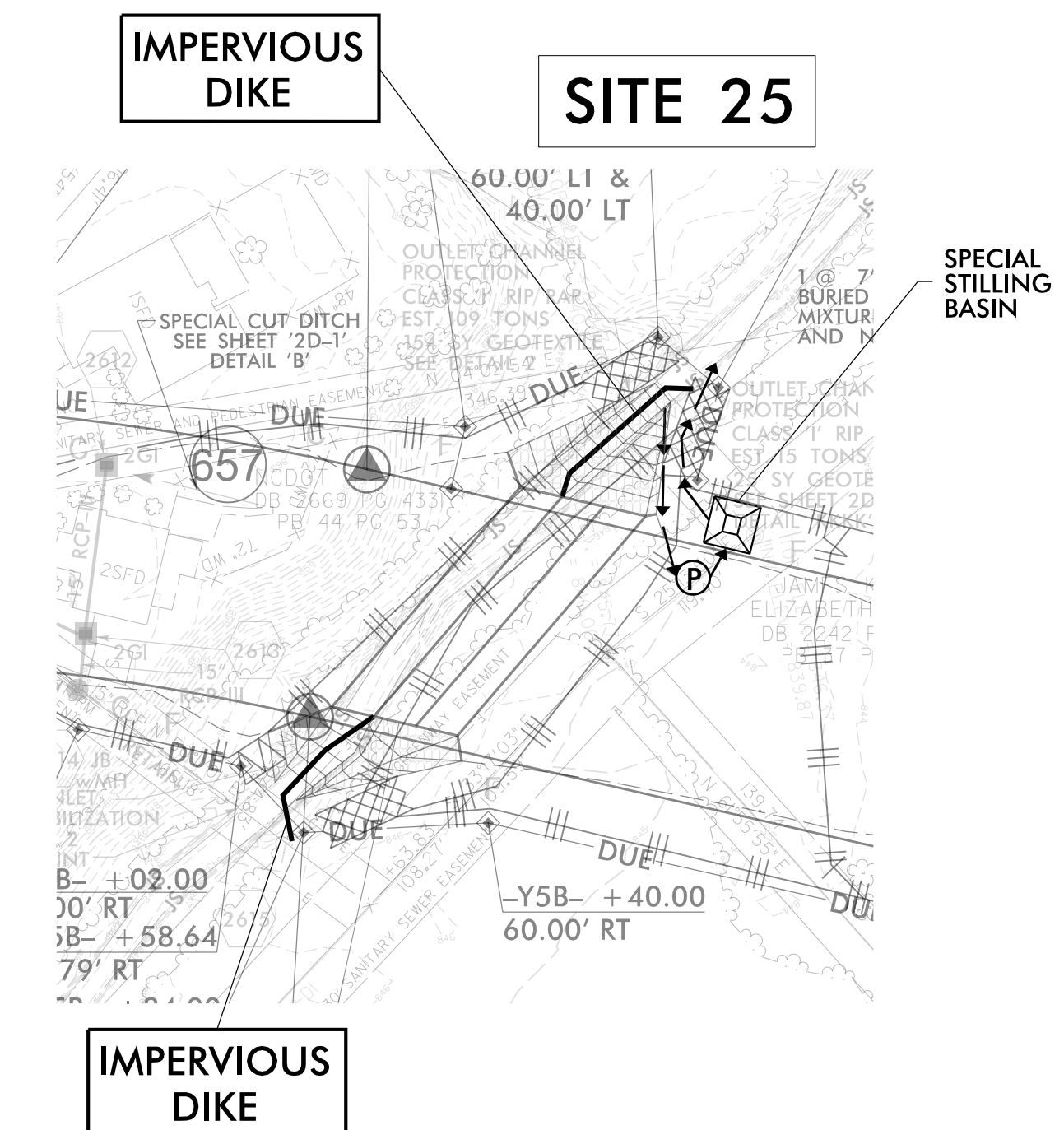
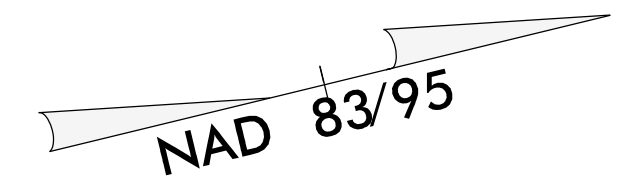
1. CONSTRUCT 44'X22'X3' STILLING BASIN.
2. CONSTRUCT 10' BASE TEMPORARY CHANNEL CHANGE WITH LINER. SECURE INLET AND OUTLET OF CHANNEL.
3. UTILIZE STILLING BASIN, TEMPORARY DIKES AND BYPASS PUMPS TO TIE TEMPORARY CHANNEL CHANGE INTO STREAM.
4. INSTALL IMPERVIOUS DIKES AS SHOWN TO DIRECT WATER FLOW AROUND THE WORK AREA INTO THE TEMPORARY CHANNEL CHANGE.
5. CONSTRUCT THE LEFT CULVERT BARREL USING STILLING BASIN AND PUMP TO DE-WATER THE WORK ZONE.
5. COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS ON THE LEFT BANK.
6. REMOVE STILLING BASIN AND IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED LEFT CULVERT BARREL.




NOTE: CONTRACTOR TO USE BERMS AS NEEDED TO MAINTAIN A MINIMUM 3' DEPTH OF THE TEMPORARY CHANNEL CHANGE.

PHASE 2

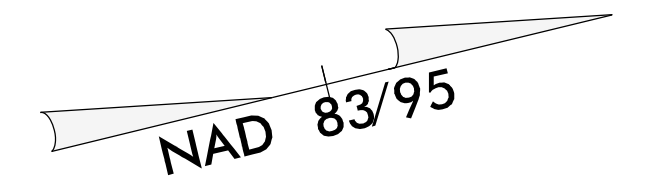
1. INSTALL IMPERVIOUS DIKES AT INLET AND OUTLET OF MIDDLE AND RIGHT CULVERT BARRELS.
2. CONSTRUCT MIDDLE AND RIGHT CULVERT BARRELS.
3. UTILIZE SPECIAL STILLING BASIN(S), TEMPORARY DIKES AND BYPASS PUMPS AS NEEDED TO DE-WATER THE WORK ZONE.
4. COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS ON THE RIGHT BANK.
5. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.



CULVERT CONSTRUCTION SEQUENCE STA. 19+75 -Y5B-

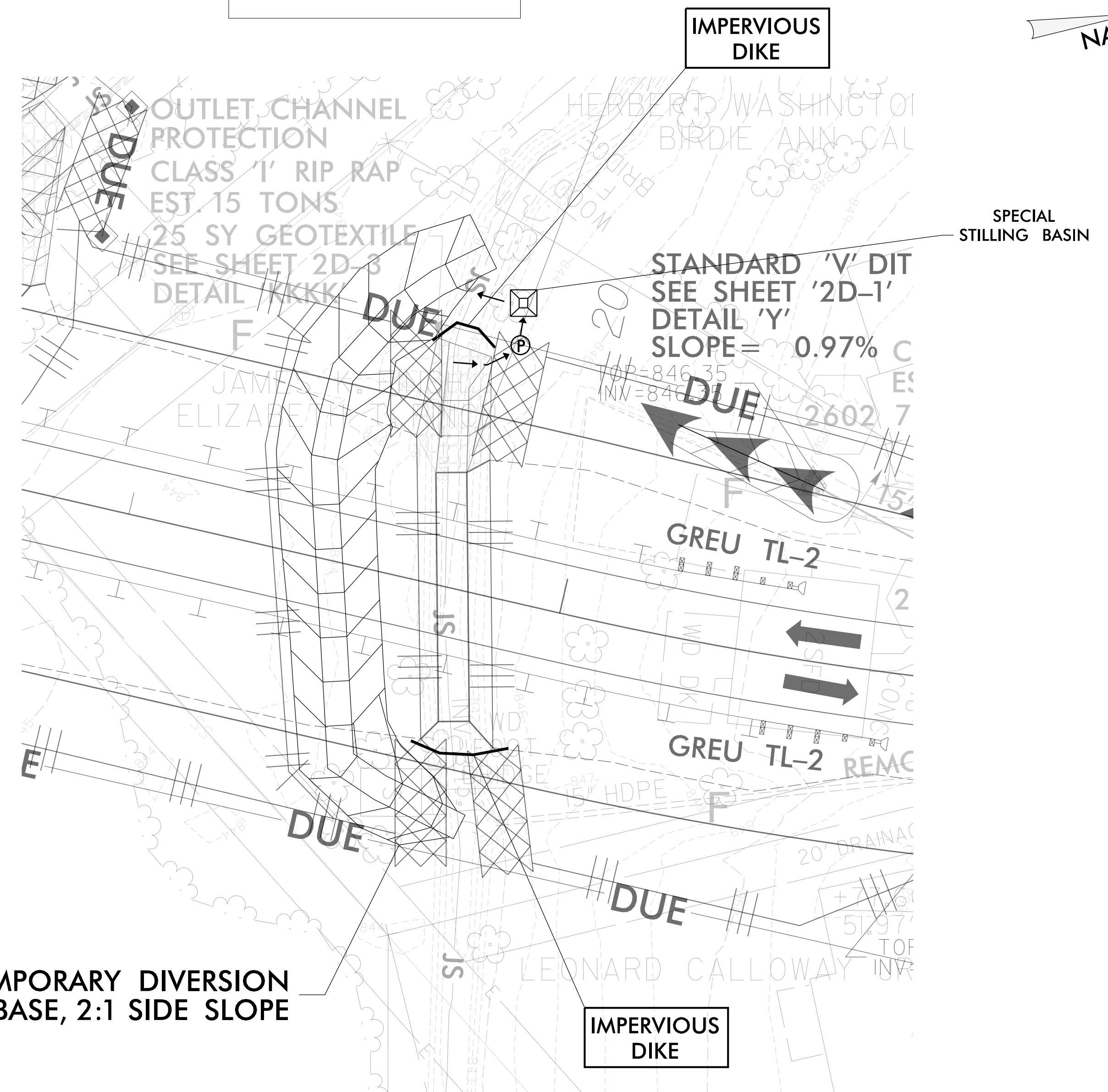
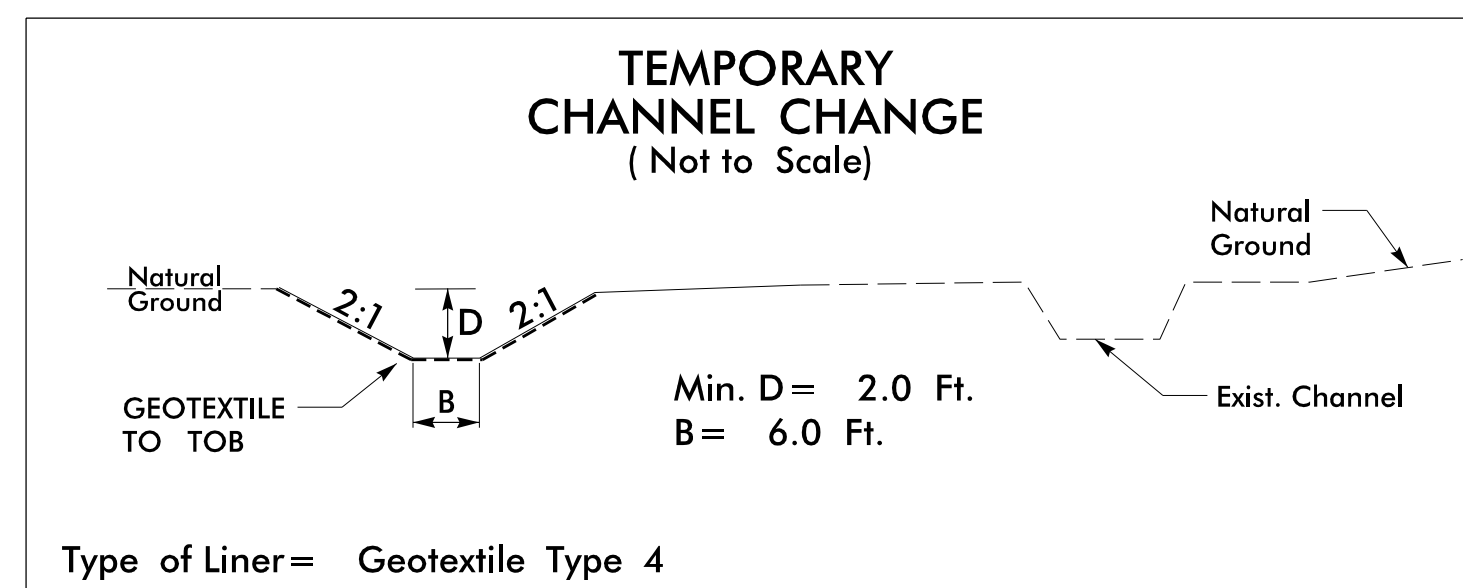
PROJECT REFERENCE NO. U-2579AB		SHEET NO. EC-26B/CONST.26	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

NOT TO SCALE



SITE 26

1. CONSTRUCT 6' BASE TEMPORARY CHANNEL CHANGE WITH LINER. SECURE INLET AND OUTLET OF CHANNEL.
2. UTILIZE SPECIAL STILLING BASIN(S), TEMPORARY DIKES AND BYPASS PUMPS TO TIE TEMPORARY CHANNEL CHANGE INTO STREAM.
3. INSTALL IMPERVIOUS DIKES AS SHOWN TO DIRECT WATER FLOW AROUND THE WORK AREA INTO THE TEMPORARY CHANNEL CHANGE.
4. CONSTRUCT CULVERT USING SPECIAL STILLING BASIN(S) AND PUMP TO DE-WATER THE WORK ZONE.
5. USE TEMPORARY DIKES AND BYPASS PUMPS TO COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.



TEMPORARY DIVERSION
6' BASE, 2:1 SIDE SLOPE

IMPERVIOUS
DIKE

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	EC-27/CONST. 27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 N.C.B.E.L.S. License Number: F-0116



CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 27

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET
 PROTECTION (HIGH FLOW) FOR
 DRAINAGE INLETS CLOSE TO
 TRAFFIC AS NEEDED

SPECIAL CUT DITCH
 SEE SHEET '2D-1'
 DETAIL 'D'

PAVED SHOULDER

NOTE:
 SEE SHEET 45 FOR -Y8- PROFILE

NOTE:

REVISIONS

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