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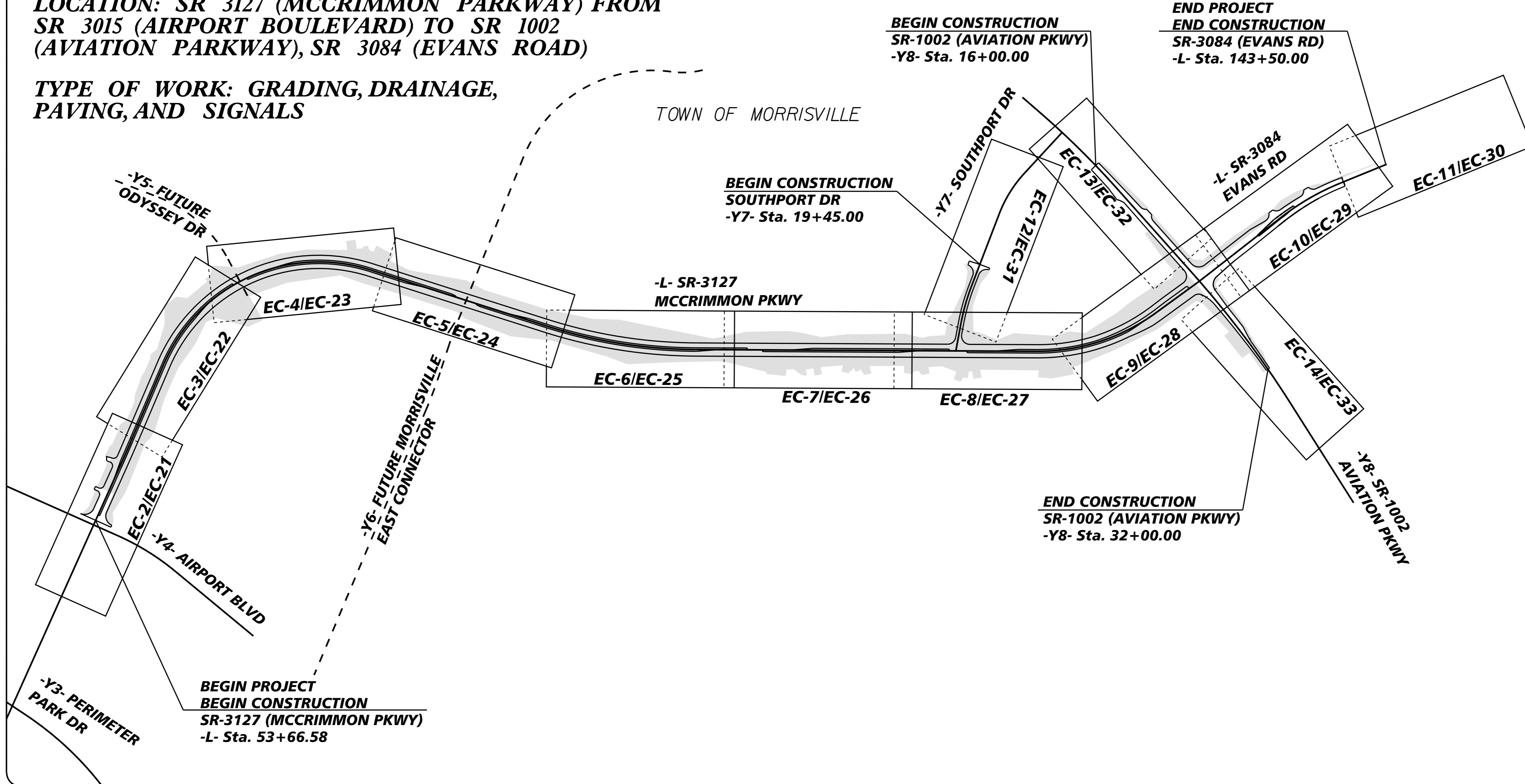
TIP PROJECT: U-5828

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5828	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: SR 3127 (MCCRIMMON PARKWAY) FROM SR 3015 (AIRPORT BOULEVARD) TO SR 1002 (AVIATION PARKWAY), SR 3084 (EVANS ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS

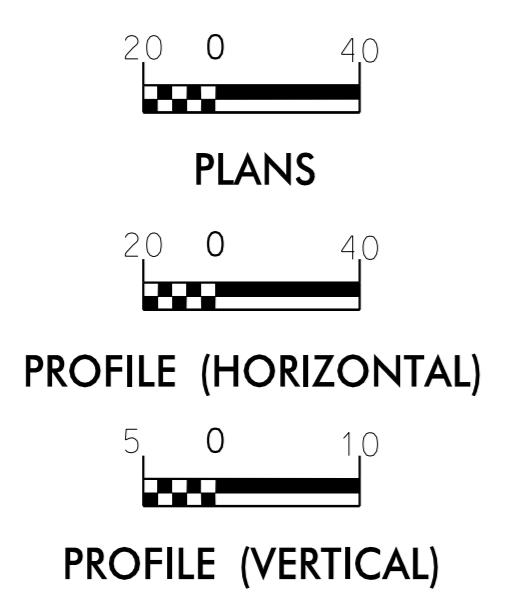


EROSION AND SEDIMENT CONTROL MEASURES

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

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

GRAPHIC SCALE



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

Prepared In the Office of:
Kimley»Horn
© 2016 Post Office Box 33068 Raleigh, North Carolina 27636 NC License #F-0102

2012 STANDARD SPECIFICATIONS

Designed by:
ERIN THOMPSON, P.E. 3534
NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St. Raleigh, NC 27611

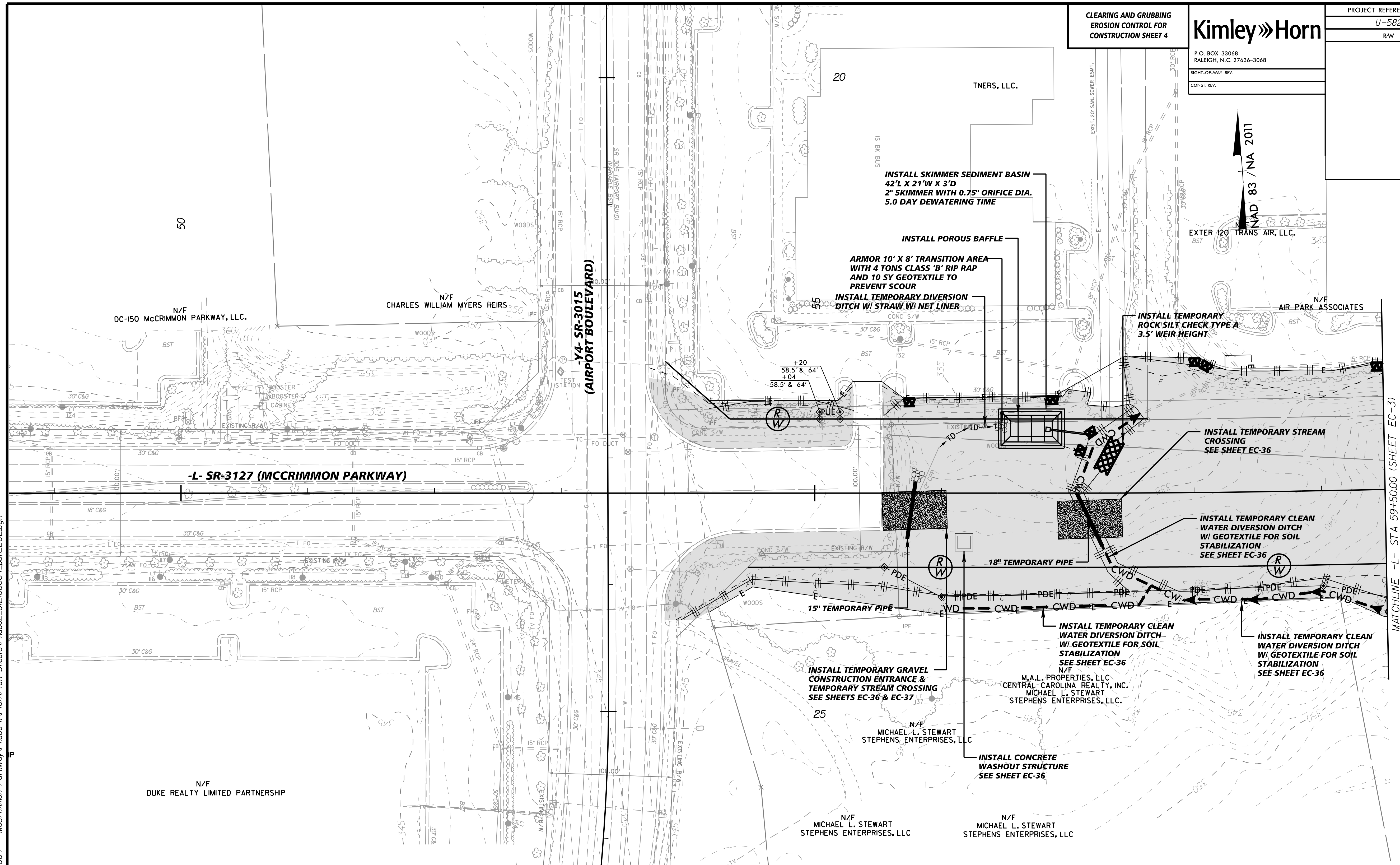
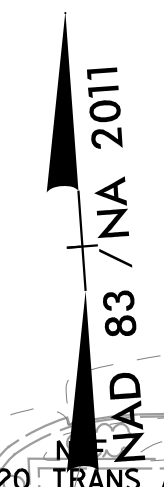
2012 STANDARD SPECIFICATIONS

Reviewed by:
NOELLE RING, CPESC

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	



MATCHLINE -L- STA 59+50.00 (SHEET EC-3)

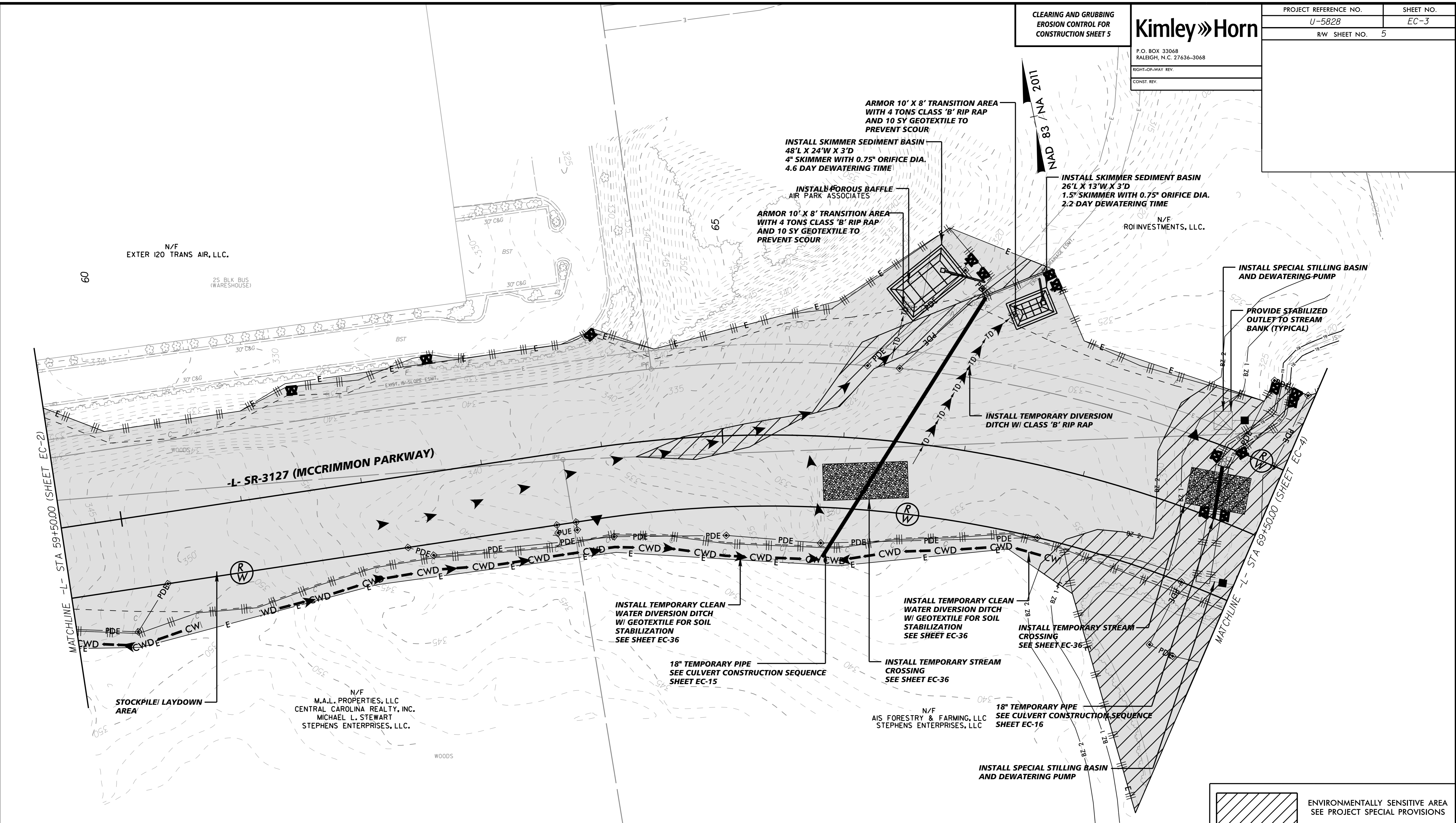
Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

GENERAL NOTES (TYPICAL ALL SHEETS):

- WHERE SILT FENCES ARE LOCATED BELOW STORM DRAIN OUTLETS, THEIR LOCATIONS MUST BE MODIFIED AS THE STORM DRAINS ARE INSTALLED SO THAT THE FENCES WILL PASS OVER THE PIPE OUTLETS.
- SILT FENCE OUTLET MUST BE ADDED IN THE FIELD WHENEVER LOW POINTS ARE ENCOUNTERED ALONG SILT FENCE RUNS.
- INLET TUBES "SILT SOCK" AND FILTER SACK INLET PROTECTION MAY BE USED IN PLACE OF HARDWARE CLOTH AND GRAVEL INLET PROTECTION WHEN DEEMED APPROPRIATE BY THE FIELD ENGINEER.
- USE ROLLED EROSION CONTROL PRODUCTS ON ALL CUT/FILL SLOPES INCLUDING BASINS AS NECESSARY FOR STABILIZATION

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.

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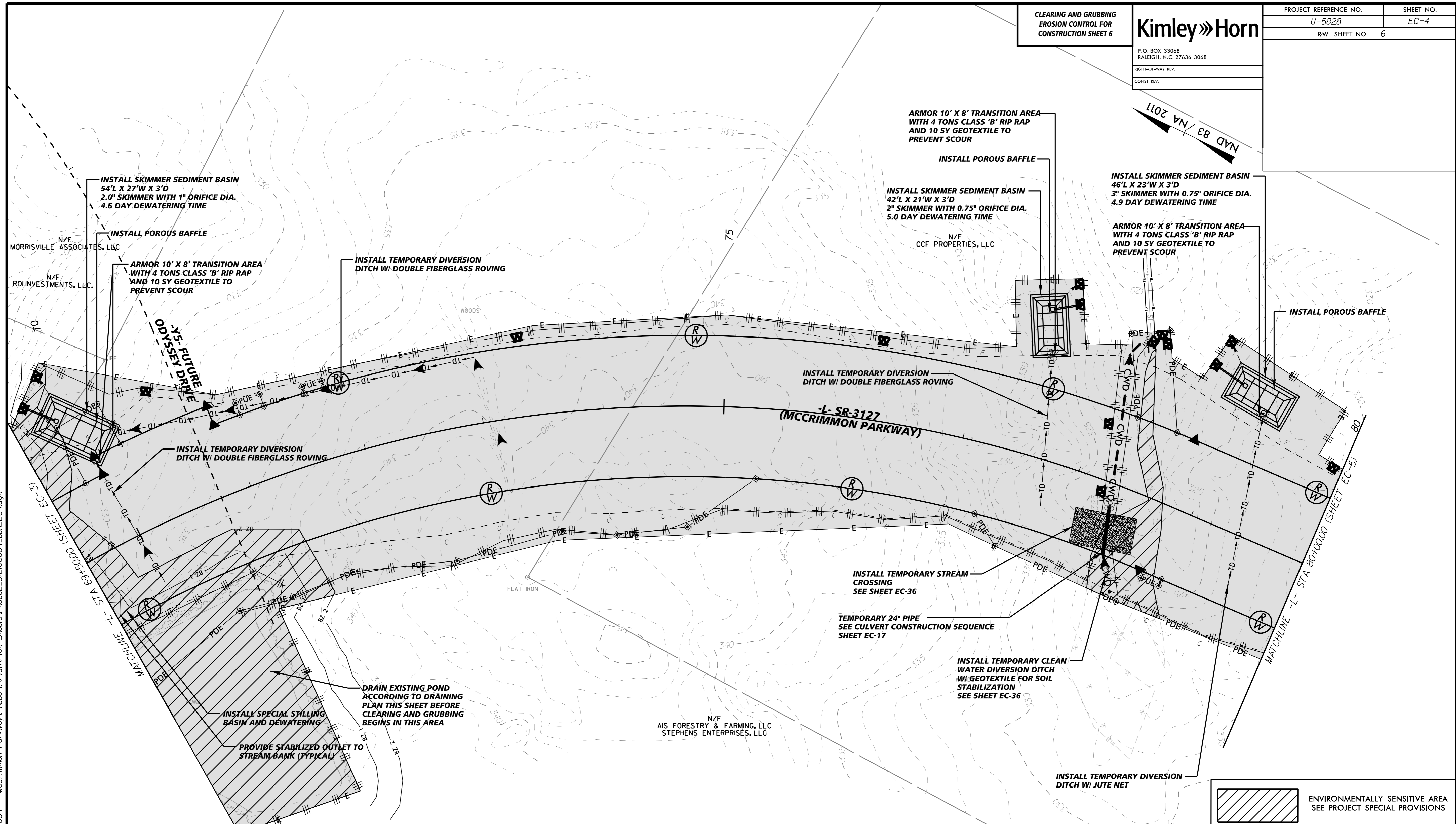


Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

POND DRAINING SEQUENCE

- DEWATER POND WITH USE OF A 4" (OR 6") SELF-PRIMING TRAILER PUMP SET UP ON THE EXISTING POND DAM. SUSPEND INTAKE HOSE IN THE WATER COLUMN TO MINIMIZE SILT INTAKE
- DISCHARGE WATER INTO THE TEMPORARY 18" PIPE
- DEWATER POND TO A DEPTH OF 3' TO 5' AND BEGIN FISH REMOVAL PROCESS. FISH SHALL BE REMOVED BY SEINING THE POND AS IT IS BEING DEWATERED. SEINING SHALL CONSIST OF PULLING A LONG NET THROUGH THE BODY OF WATER TO BE CLEARED OF FISH. AS THE NET IS PULLED FROM ONE SHORELINE TO THE NEXT, FISH WILL BE CONCENTRATED IN THE NETTING, SCOOPED OUT WITH DIP NETS AND REMOVED.
- ONCE THE FISH HAVE BEEN REMOVED, CONTINUE DEWATERING UNTIL THERE ARE ONLY SMALL AREAS OF PONDING THROUGHOUT THE POND. USING A SMALLER PUMP WITH A SUCTION HOSE PLACED INSIDE A SLOTTED BARREL, PUMP THE SMALL AREAS/PUDDLES INTO SILT BAGS AND DISPOSE SILT OFFSITE.
- FULLY BREACH THE EXISTING POND DAM AND ALLOW THE POND BOTTOM TO DRY.
- ONCE THE POND BOTTOM HAS DRIED, INSTALL THE 30" RCP IN ACCORDANCE WITH THE CULVERT CONSTRUCTION SEQUENCE PLAN ON EC-16.
- GRADE AREA TO PROVIDE POSITIVE DRAINAGE TOWARDS THIS NEW CROSS PIPE. SEED AND MULCH TO STABILIZE.

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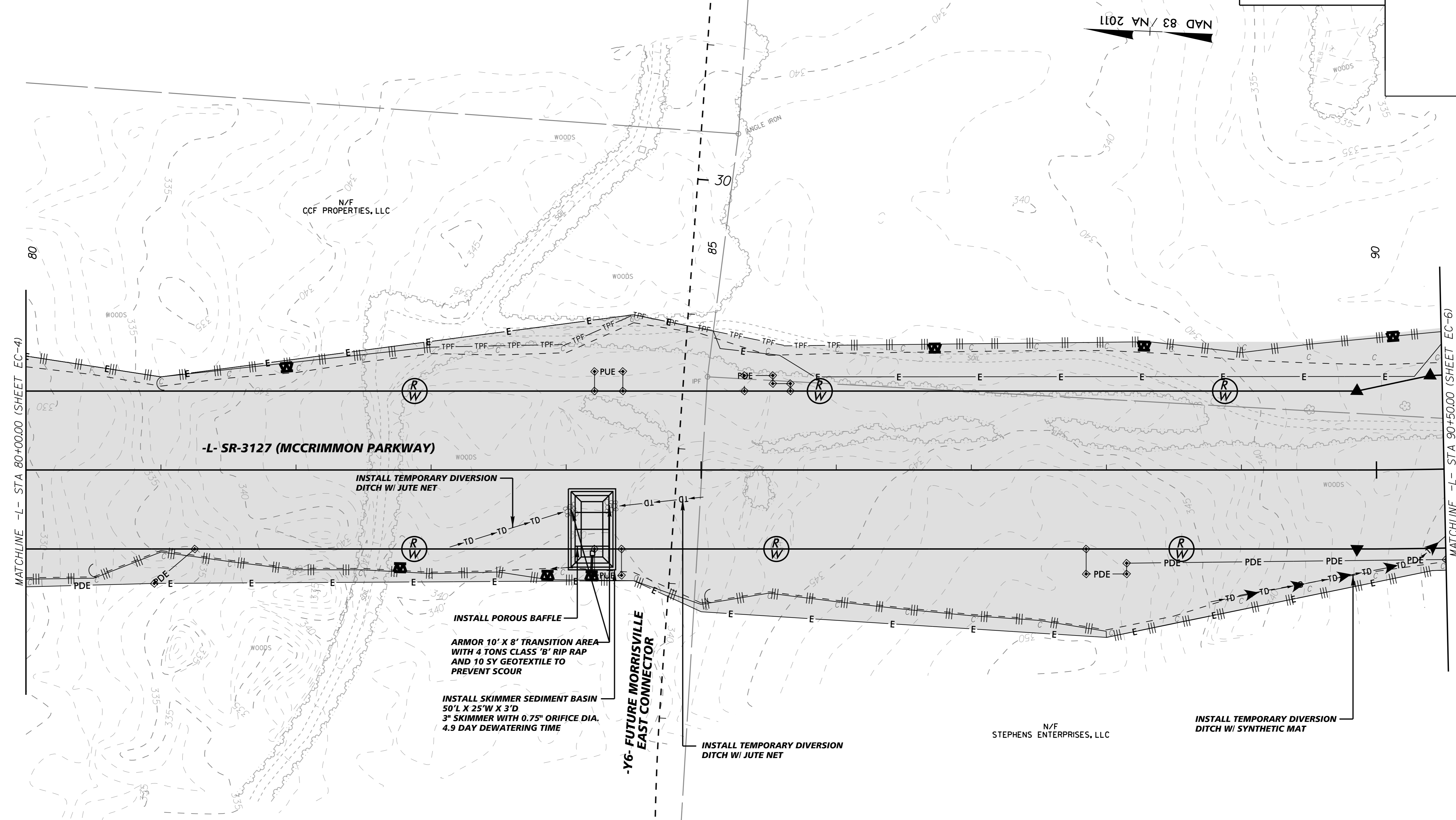


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Std. #	Description	Symbol	Description	Symbol
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1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

POND DRAINING SEQUENCE

- DEWATER POND WITH USE OF A 4" (OR 6") SELF-PRIMING TRAILER PUMP SET UP ON THE EXISTING POND DAM. SUSPEND INTAKE HOSE IN THE WATER COLUMN TO MINIMIZE SILT INTAKE
- DISCHARGE WATER INTO THE TEMPORARY 18" PIPE
- DEWATER POND TO A DEPTH OF 3' TO 5' AND BEGIN FISH REMOVAL PROCESS. FISH SHALL BE REMOVED BY SEINING THE POND AS IT IS BEING DEWATERED. SEINING SHALL CONSIST OF PULLING A LONG NET THROUGH THE BODY OF WATER TO BE CLEARED OF FISH. AS THE NET IS PULLED FROM ONE SHORELINE TO THE NEXT, FISH WILL BE CONCENTRATED IN THE NETTING, SCOOPED OUT WITH DIP NETS AND REMOVED.
- ONCE THE FISH HAVE BEEN REMOVED, CONTINUE DEWATERING UNTIL THERE ARE ONLY SMALL AREAS OF PONDING THROUGHOUT THE POND. USING A SMALLER PUMP WITH A SUCTION HOSE PLACED INSIDE A SLOTTED BARREL, PUMP THE SMALL AREAS/PUDDLERS INTO SILT BAGS AND DISPOSE SILT OFFSITE.
- FULLY BREACH THE EXISTING POND DAM AND ALLOW THE POND BOTTOM TO DRY.
- ONCE THE POND BOTTOM HAS DRIED, INSTALL THE 30" RCP IN ACCORDANCE WITH THE CULVERT CONSTRUCTION SEQUENCE PLAN ON EC-16.
- GRADE AREA TO PROVIDE POSITIVE DRAINAGE TOWARDS THIS NEW CROSS PIPE. SEED AND MULCH TO STABILIZE.

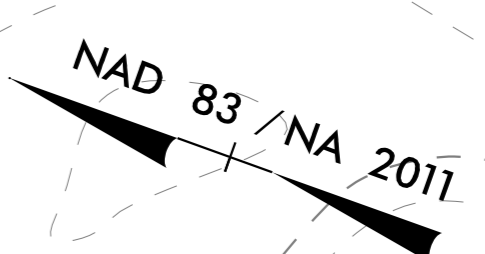


Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	→ TD →	Sediment Basin Emergency Spillway	→ → →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	—
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

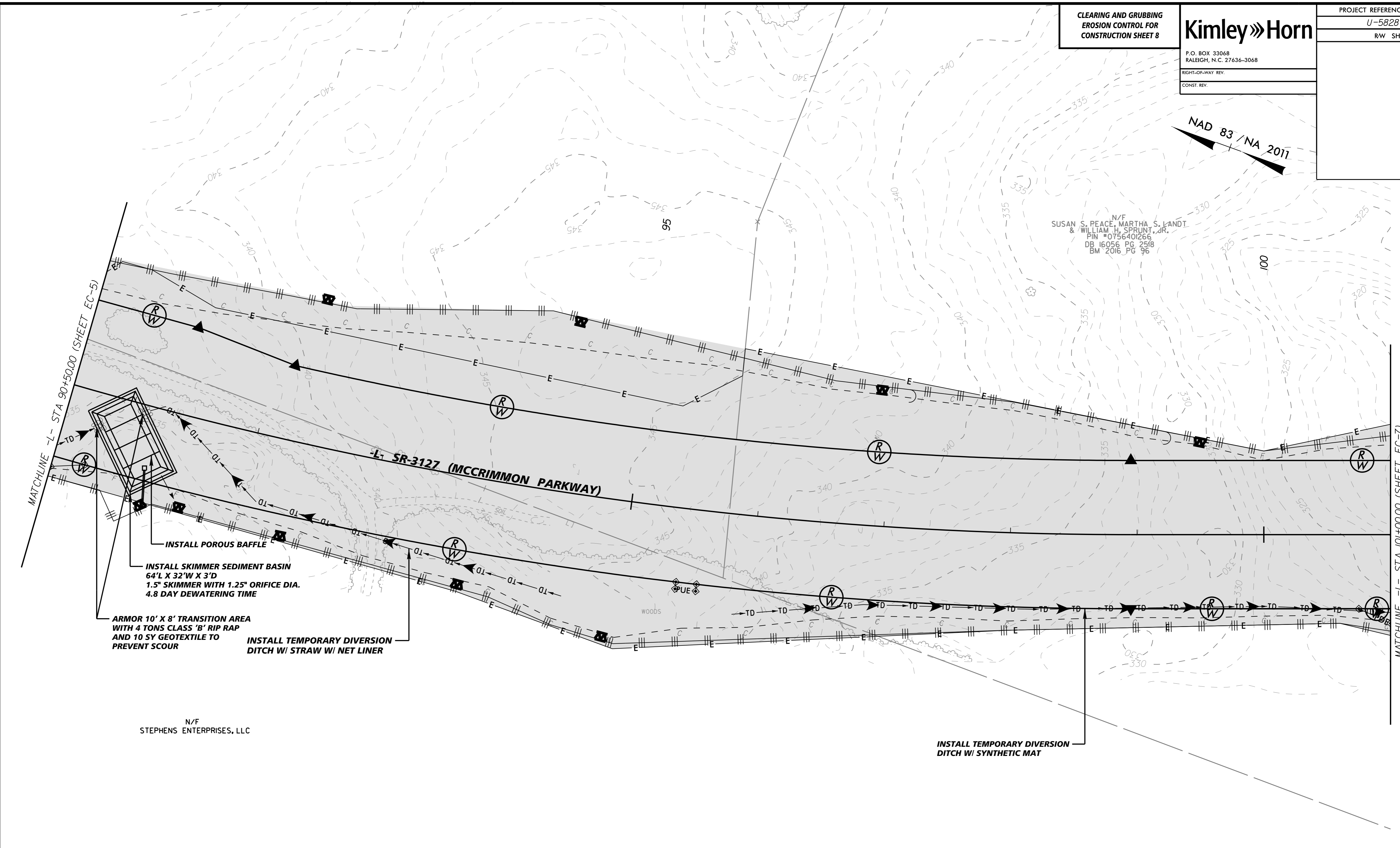
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-6
RW SHEET NO. 8	



N/F
SUSAN S. PEACE, MARTHA S. LANDI
& WILLIAM H. SPRUNT, JR.
PIN #0756401266
DB 16056 PG 2518
BM 2016 PG 96



INSTALL POROUS BAFFLE

INSTALL SKIMMER SEDIMENT BASIN
64' X 32' W X 3' D
1.5" SKIMMER WITH 1.25" ORIFICE DIA.
4.8 DAY DEWATERING TIME

ARMOR 10' X 8' TRANSITION AREA
WITH 4 TONS CLASS 'B' RIP RAP
AND 10 SY GEOTEXTILE TO
PREVENT SCOUR

INSTALL TEMPORARY DIVERSION
DITCH W/ STRAW W/ NET LINER

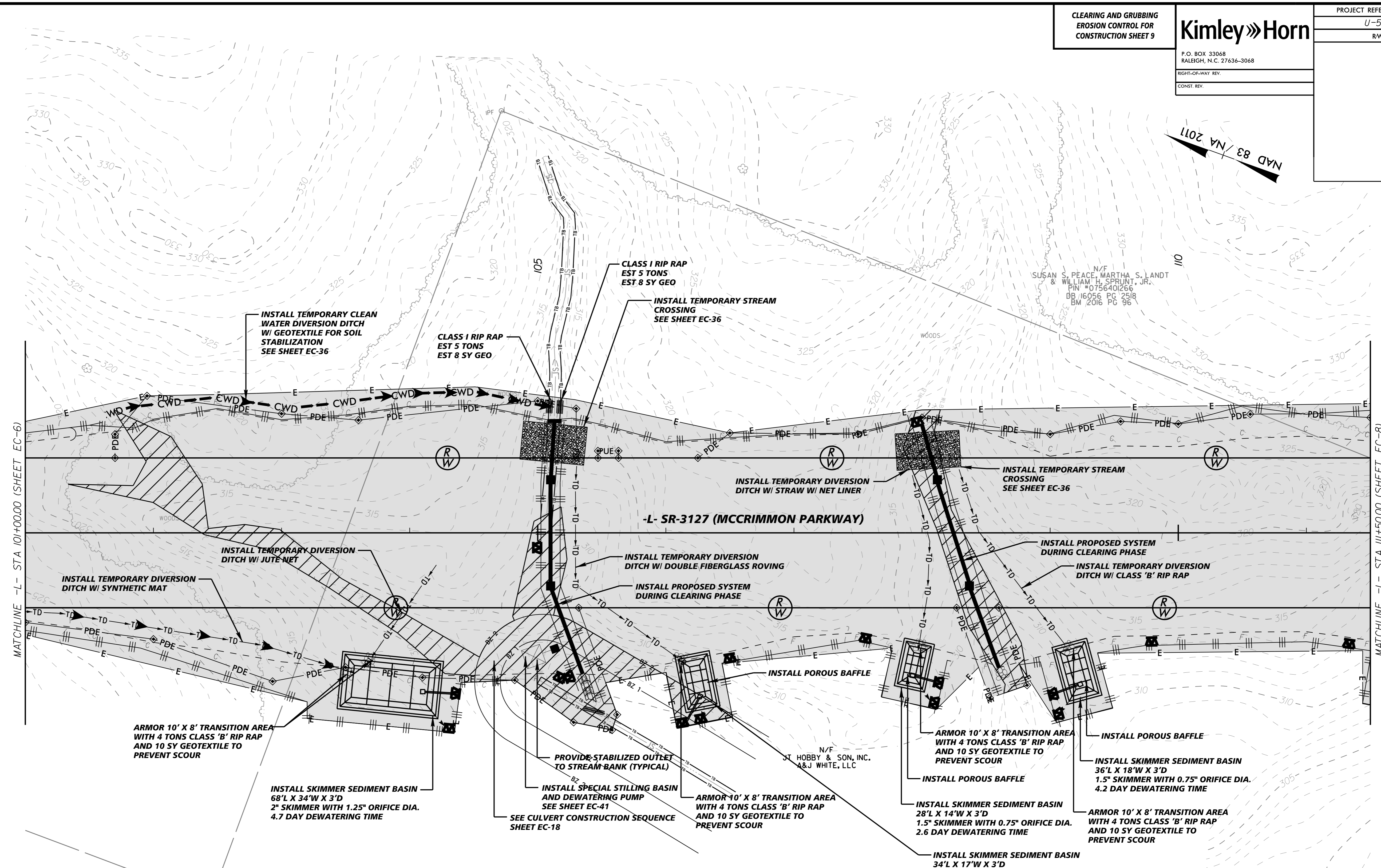
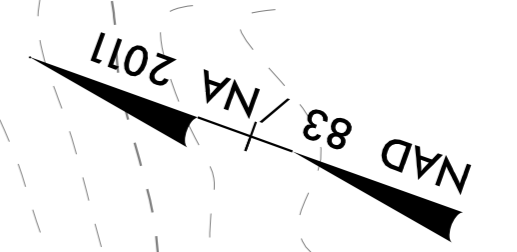
INSTALL TEMPORARY DIVERSION
DITCH W/ SYNTHETIC MAT

N/F
STEPHENS ENTERPRISES, LLC

Std. #	Description	Symbol	Description	Symbol
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1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	



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Std. #	Description	Symbol
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1606.01	Special Sediment Control Fence	▲▲▲▲▲▲▲▲
1630.05	Temporary Diversion	→ TD →
1630.06	Special Stilling Basin	□
1632.03	Rock Inlet Sediment Trap Type C	□
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▶

Description	Symbol
Skimmer Basin	□
Tree Protection Fence	- TPF -
Sediment Basin Emergency Spillway	→ →
Concrete Washout Structure	□
Temporary Gravel Construction Entrance	▨
Coffer Dam/ Impervious Dike	—
Clean Water Diversion	— CWD —
Construction Limit	C F
Limits of Disturbance (Shaded)	■

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

Kimley»Horn

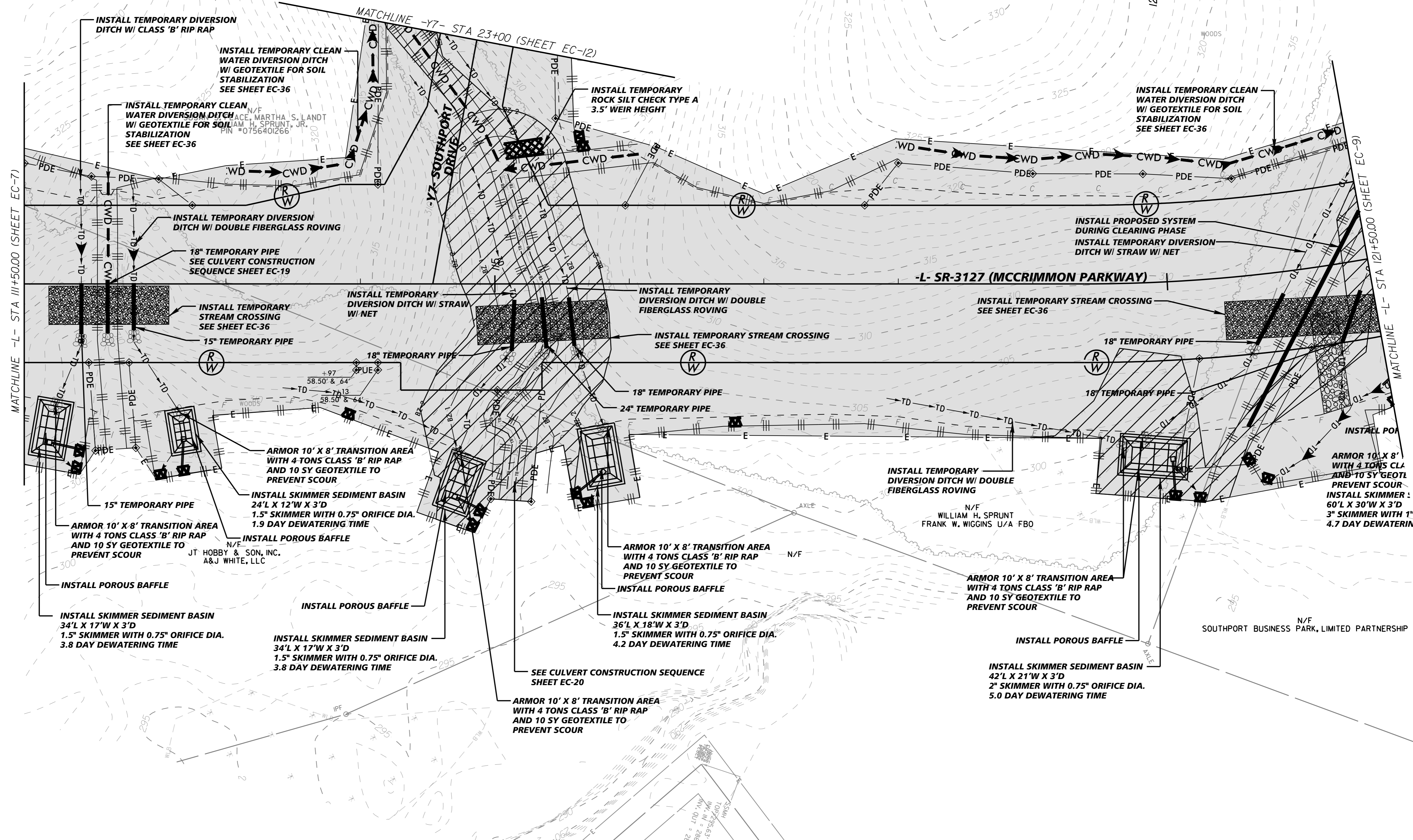
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-8
RW SHEET NO.	10

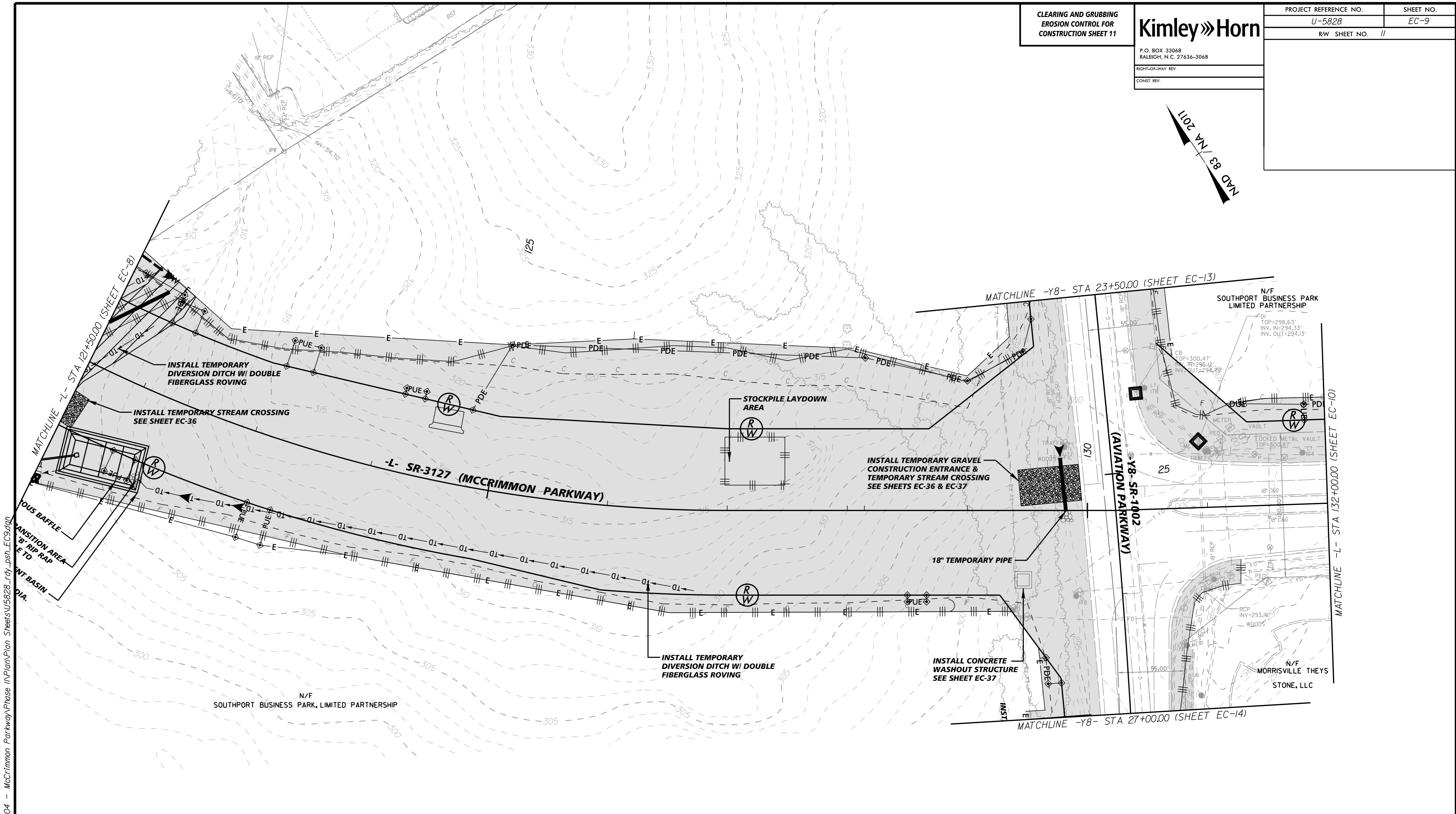
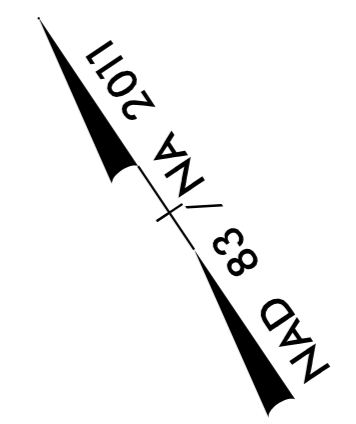
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1/31/2018

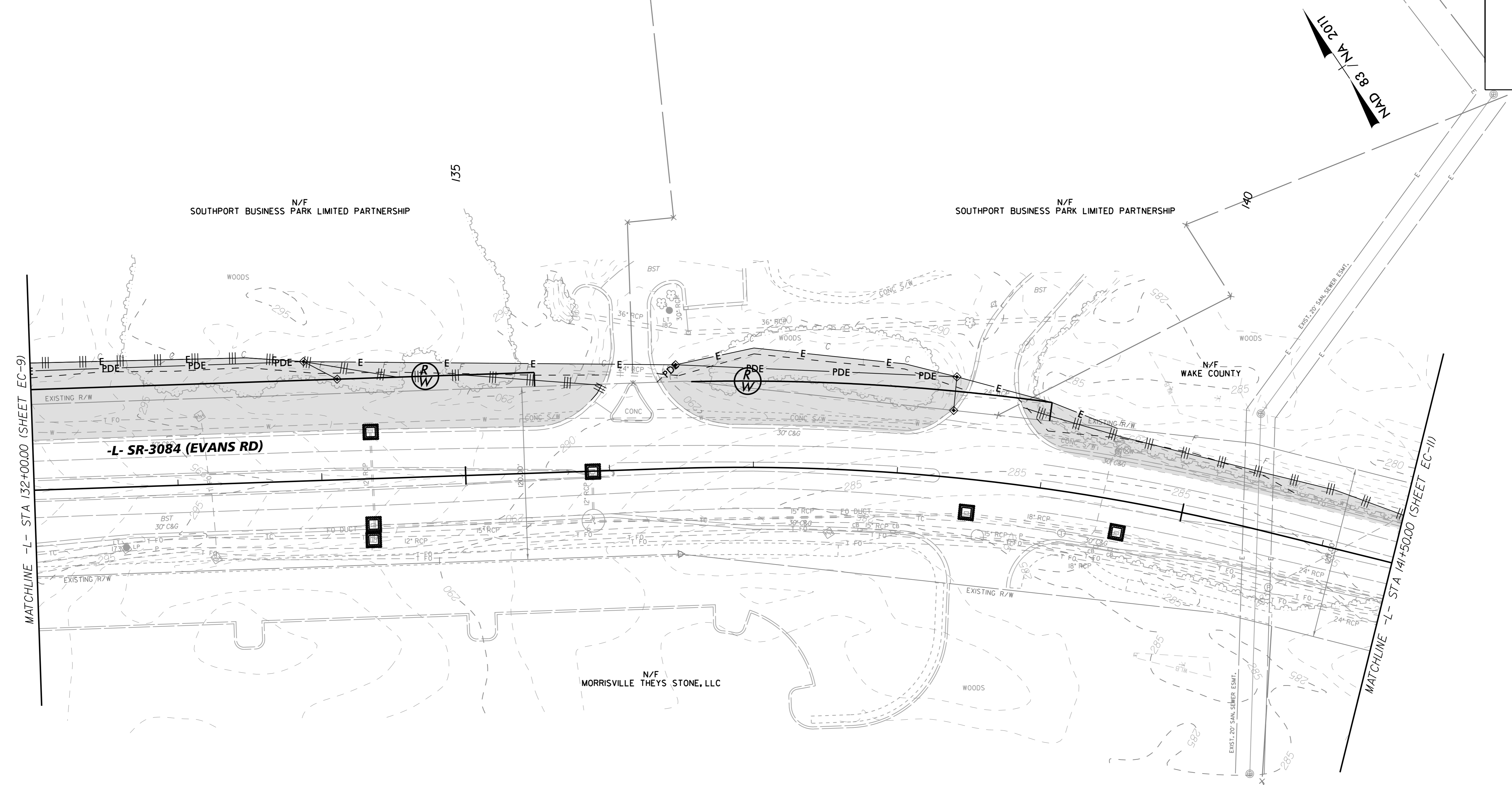
PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-9
RW SHEET NO. //	



Std. #	Description	Symbol	Description	Symbol
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1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	



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1/31/2018



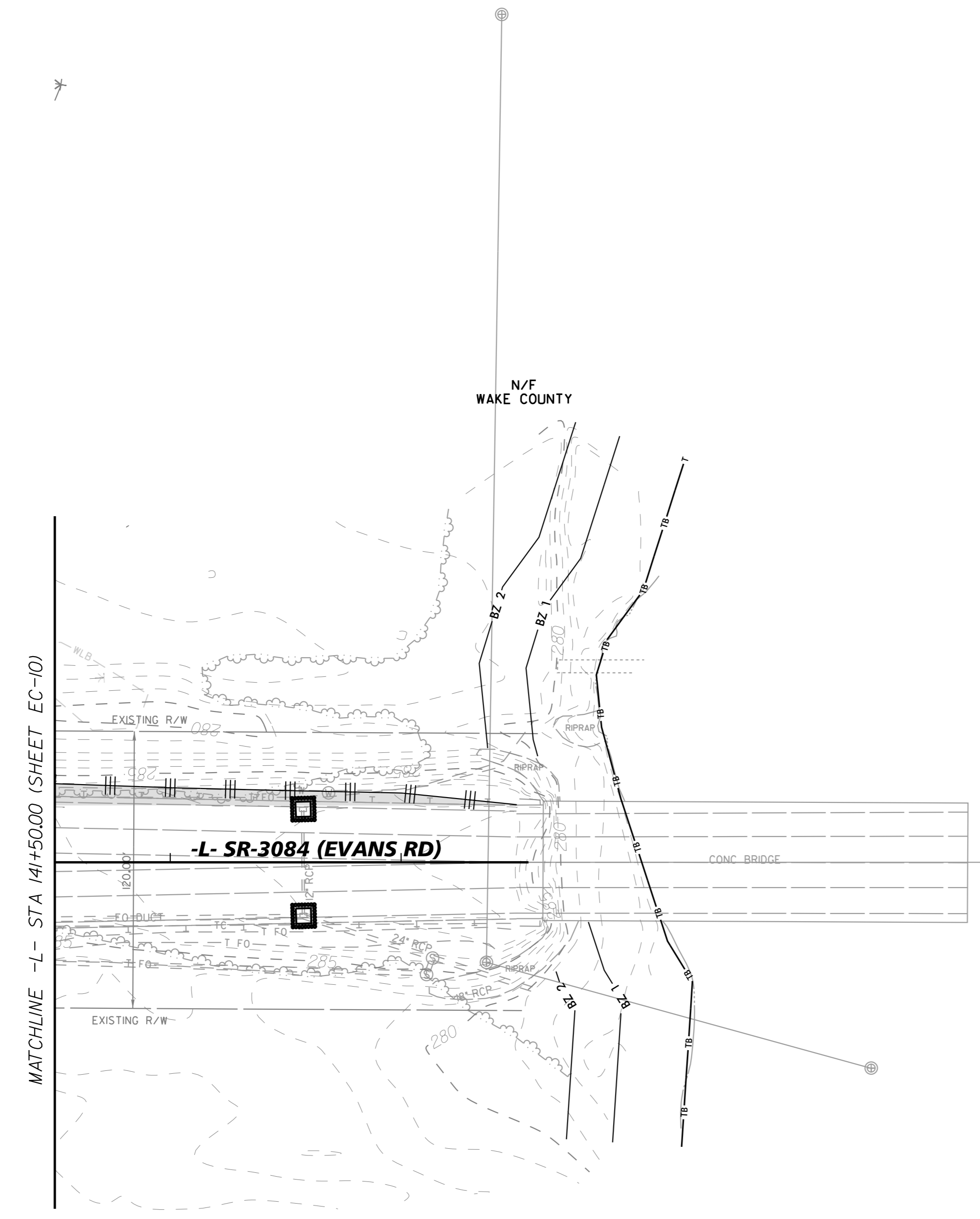
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1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	→ TD →	Sediment Basin Emergency Spillway	→ →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	—
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-11
R/W SHEET NO.	13

NAD 83 / NA 2011

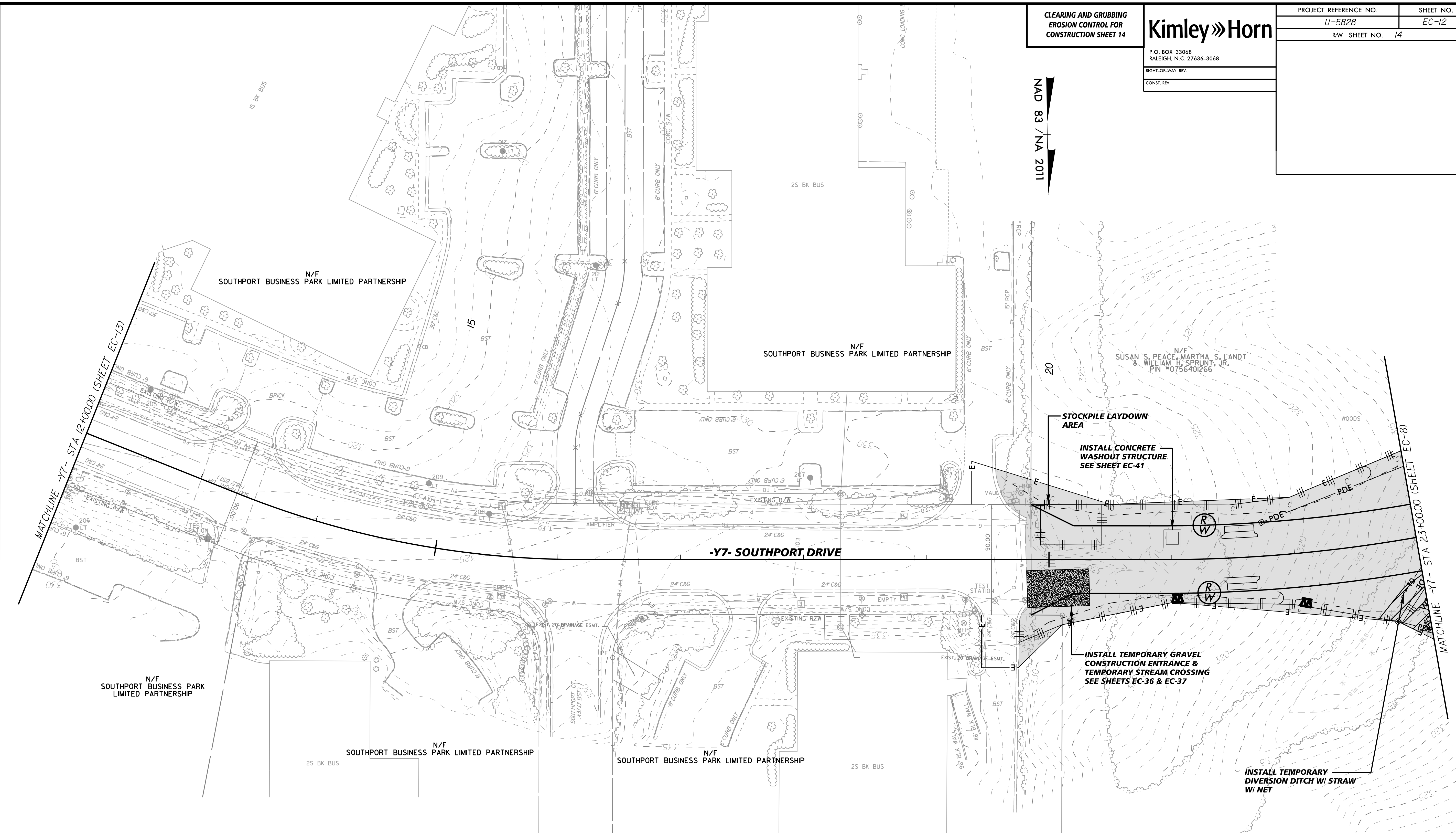


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Std. #	Description	Symbol	Description	Symbol
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1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
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1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
	Limits of Disturbance (Shaded)			

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83 / NA 2011



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
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1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

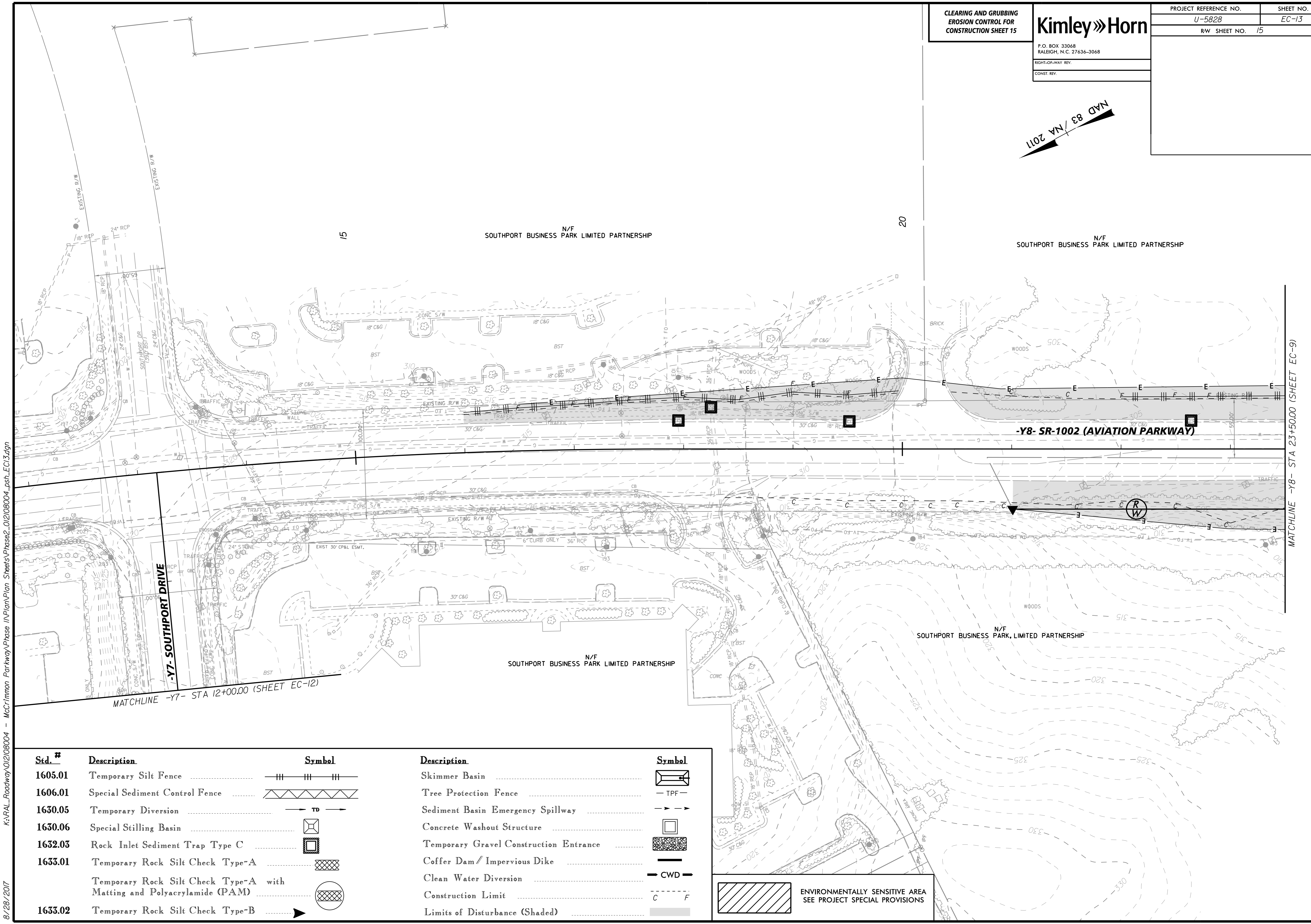
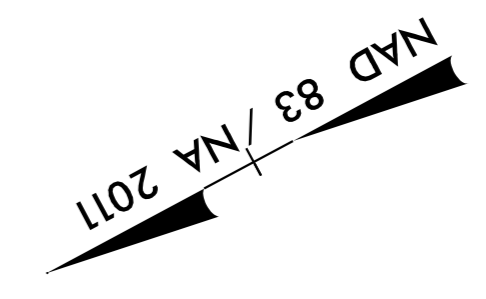
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

Kimley»Horn

P.O. BOX 33068
RALEIGH, N.C. 27636-3068
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-13
RW SHEET NO. 15	



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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MATCHLINE -Y8- STA 23+50.00 (SHEET EC-9)

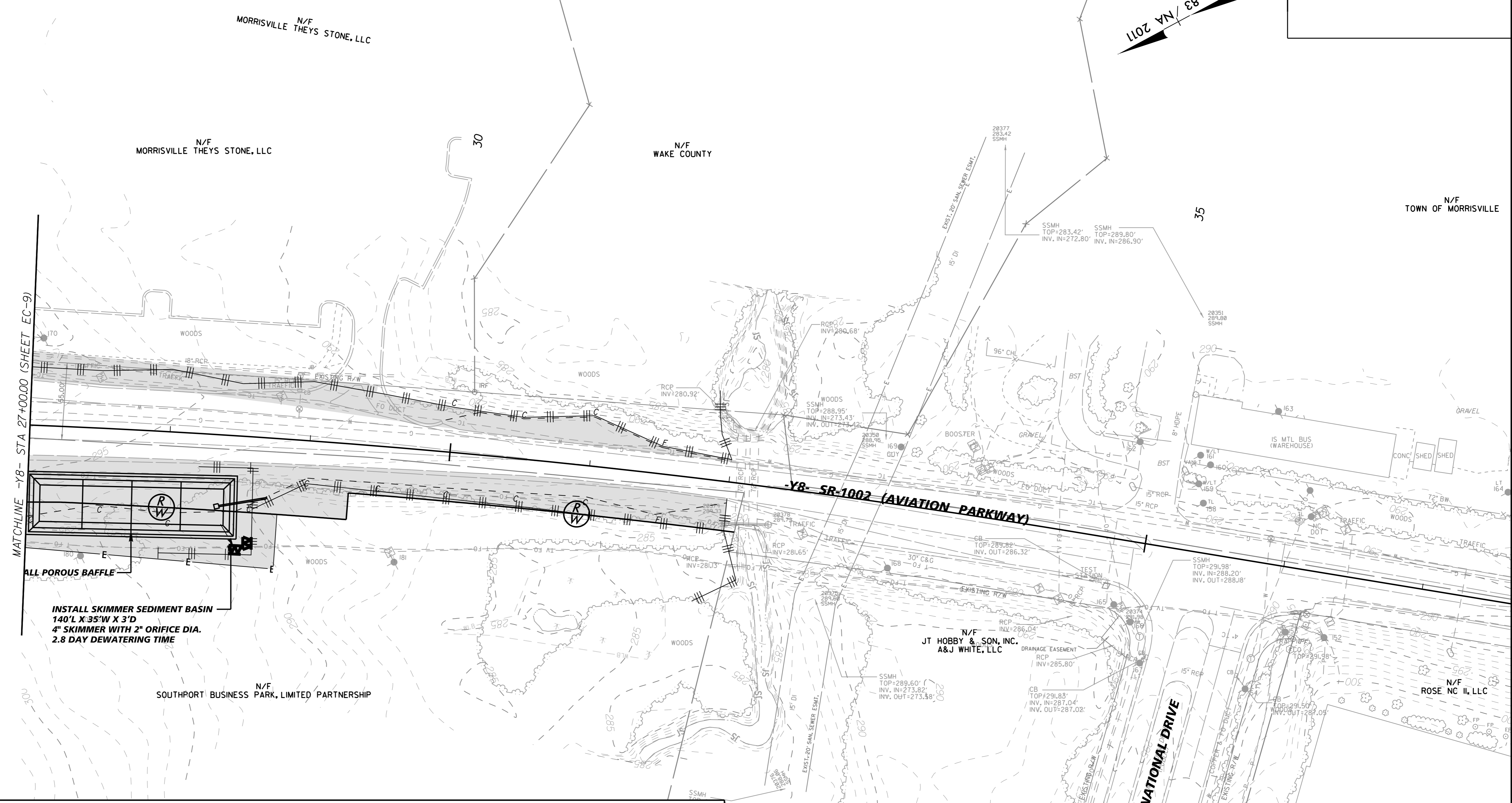
MATCHLINE -Y7- STA 12+00.00 (SHEET EC-12)

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

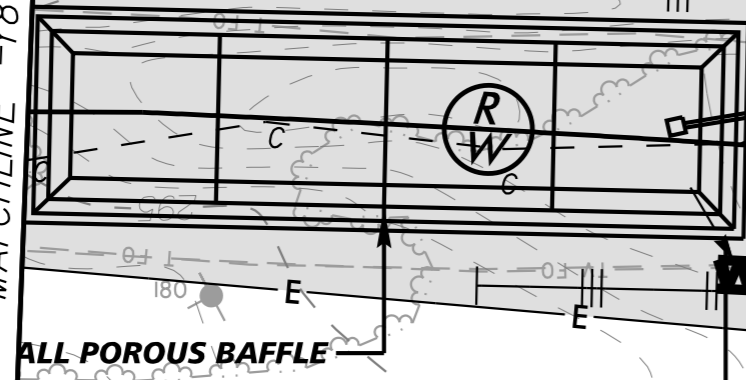
Kimley»Horn

P.O. BOX 33068
RALEIGH, N.C. 27636-3068
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-14
R/W SHEET NO.	16



MATCHLINE -Y8- STA 27+00.00 (SHEET EC-9)



INSTALL SKIMMER SEDIMENT BASIN
140'L X 35'W X 3'D
4" SKIMMER WITH 2" ORIFICE DIA.
2.8 DAY DEWATERING TIME

Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

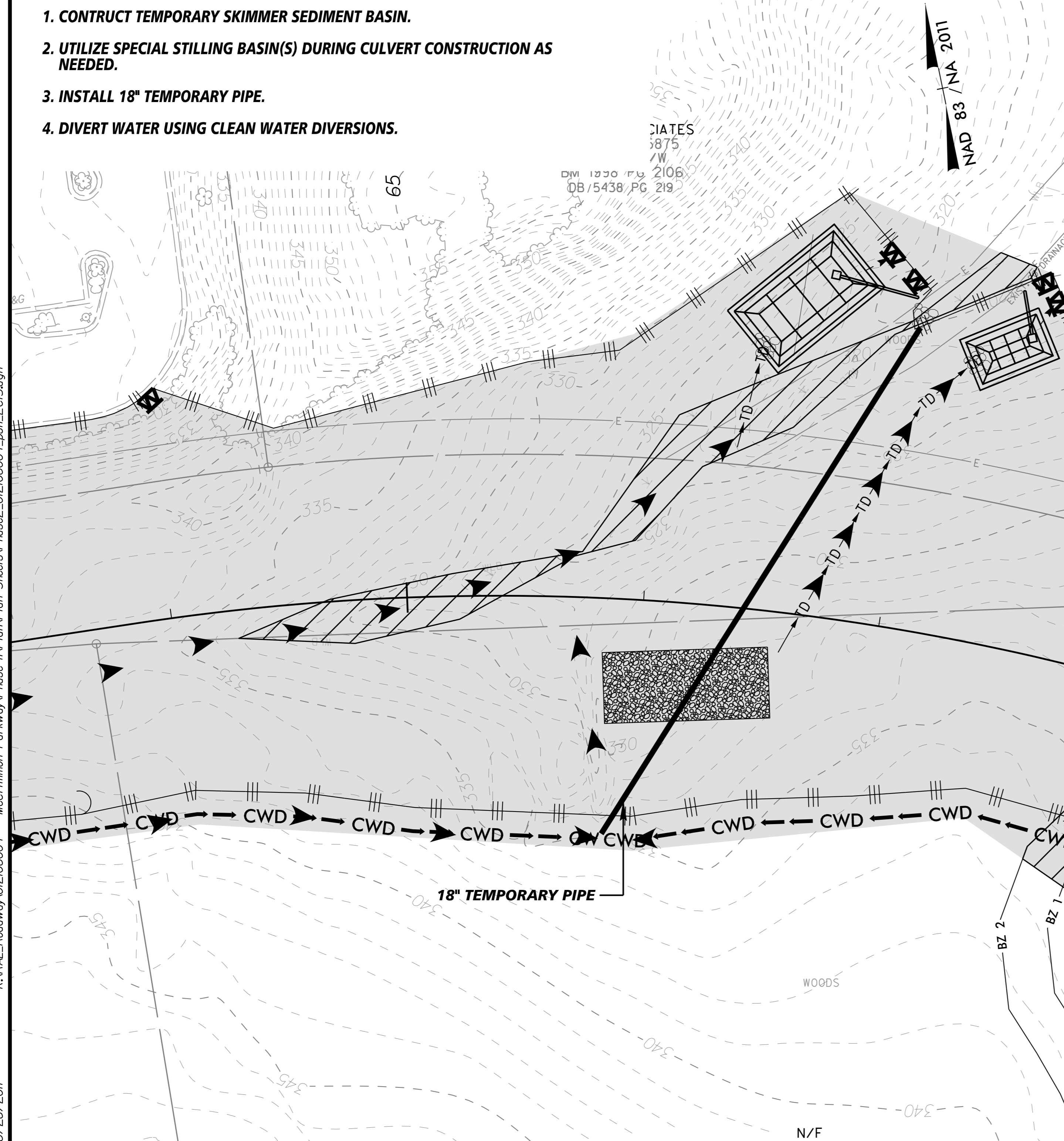


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1/31/2018

CULVERT CONSTRUCTION SEQUENCE -L- 65+90

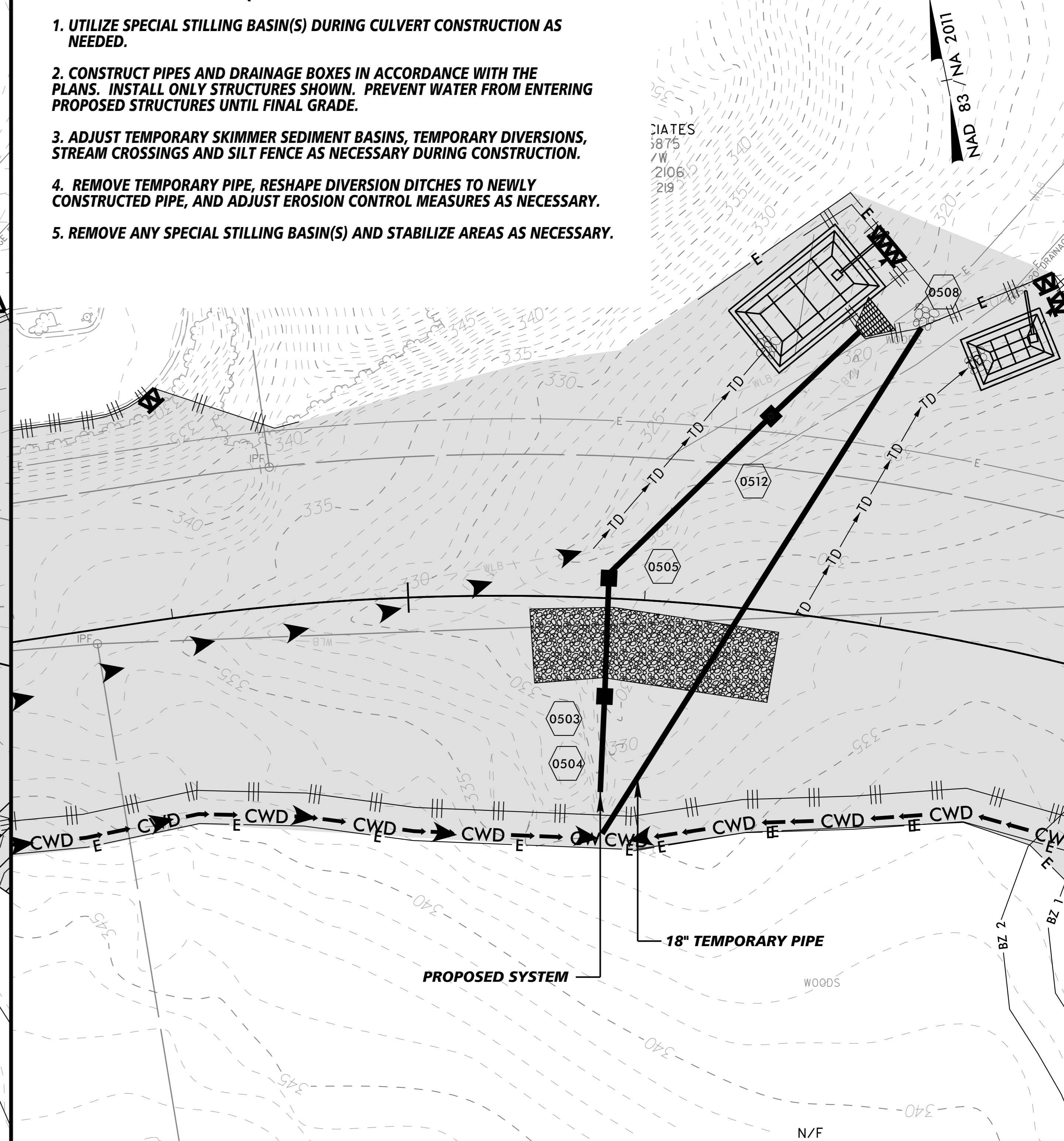
CULVERT CONSTRUCTION SEQUENCE - STAGE 1

1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASIN.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
3. INSTALL 18" TEMPORARY PIPE.
4. DIVERT WATER USING CLEAN WATER DIVERSIONS.



CULVERT CONSTRUCTION SEQUENCE - STAGE 2

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. CONSTRUCT PIPES AND DRAINAGE BOXES IN ACCORDANCE WITH THE PLANS. INSTALL ONLY STRUCTURES SHOWN. PREVENT WATER FROM ENTERING PROPOSED STRUCTURES UNTIL FINAL GRADE.
3. ADJUST TEMPORARY SKIMMER SEDIMENT BASINS, TEMPORARY DIVERSIONS, STREAM CROSSINGS AND SILT FENCE AS NECESSARY DURING CONSTRUCTION.
4. REMOVE TEMPORARY PIPE, RESHAPE DIVERSION DITCHES TO NEWLY CONSTRUCTED PIPE, AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
5. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.



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8/28/2017

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-16
R/W SHEET NO.	5

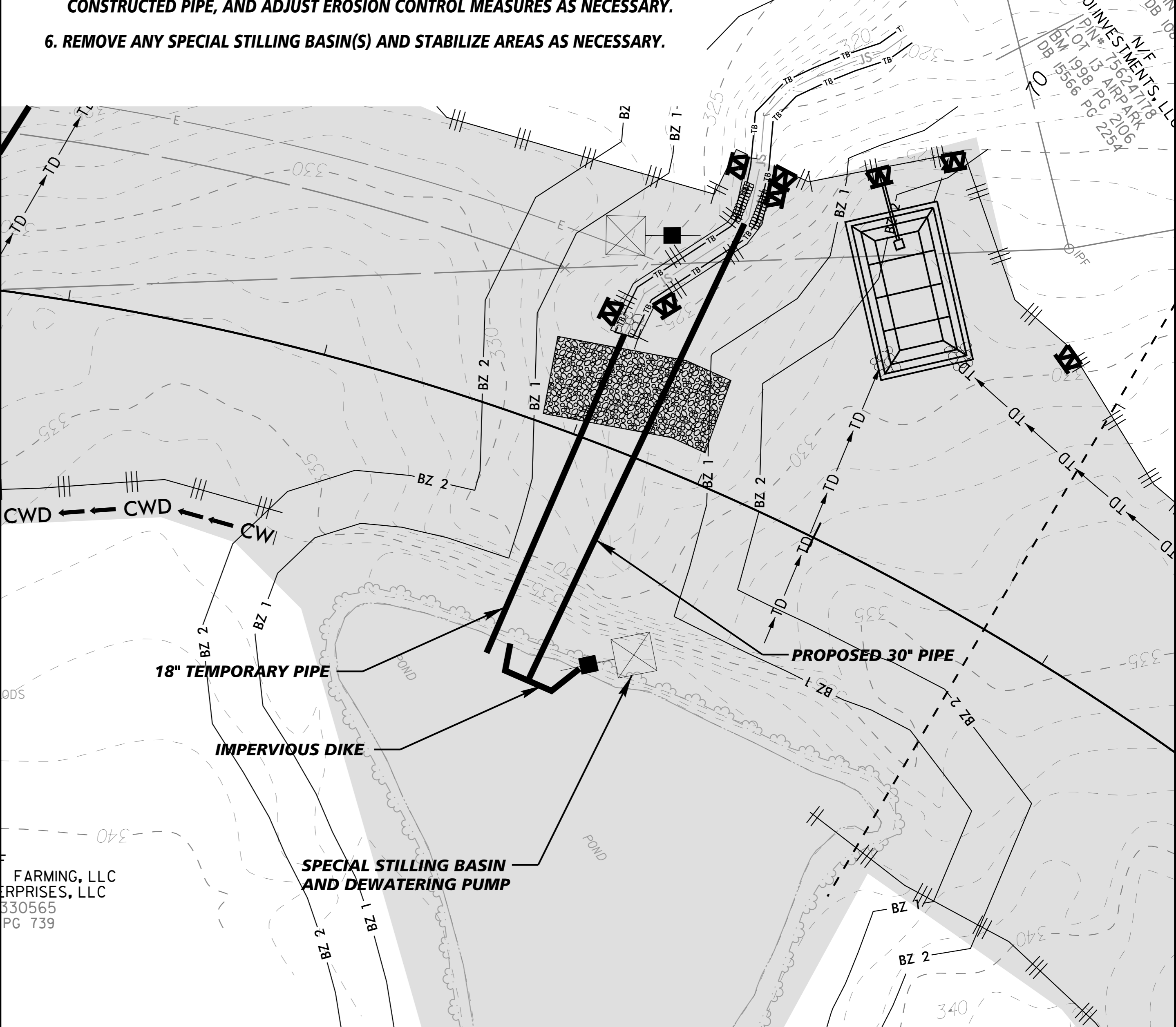
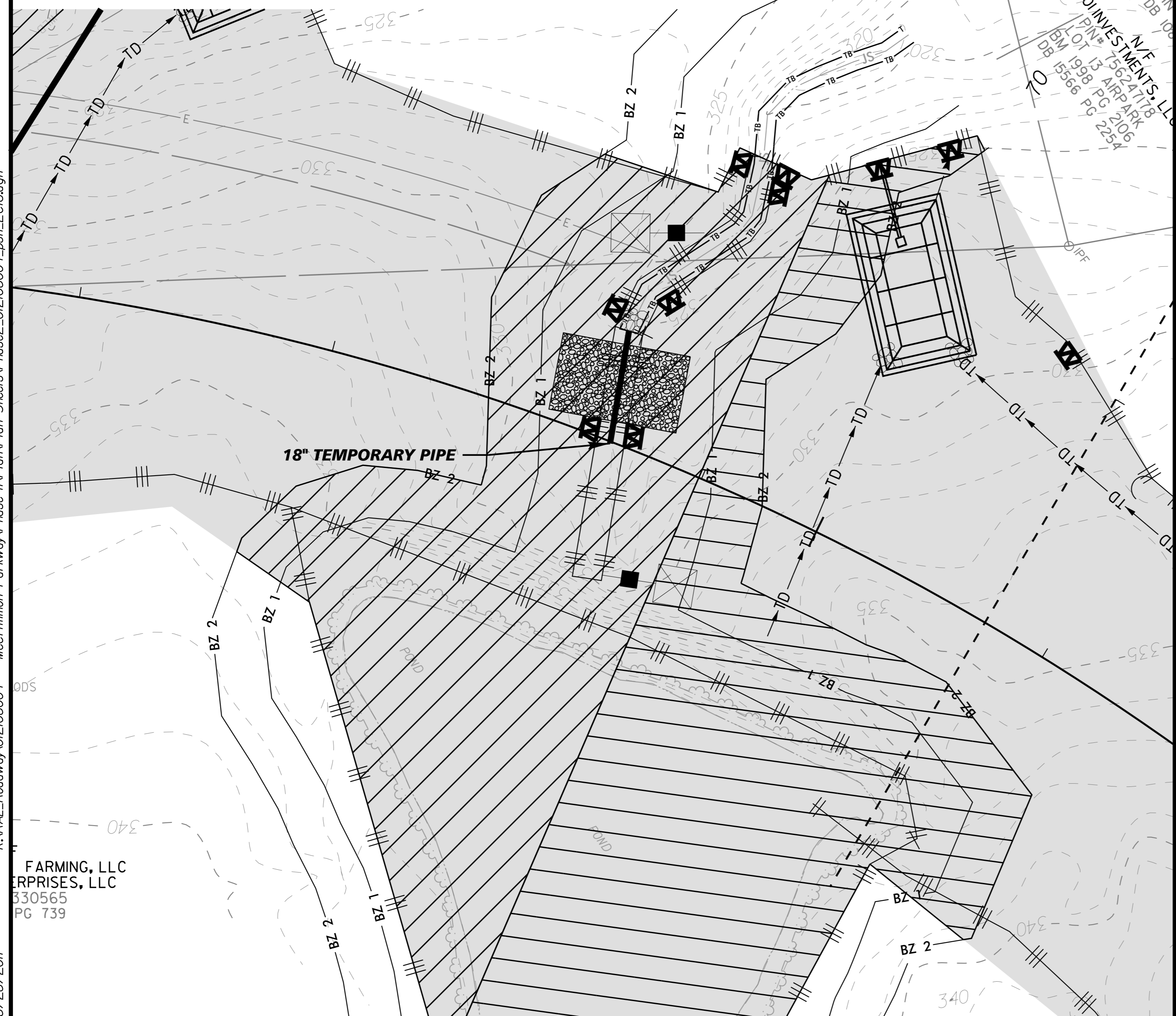
CULVERT CONSTRUCTION SEQUENCE -L- 72+92

CULVERT CONSTRUCTION SEQUENCE - STAGE 1

1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. PROTECT STREAM WITH SILT FENCE.
4. INSTALL 18" TEMPORARY PIPE AS NEEDED. DRAIN POND ACCORDING TO PROCESS DETAILED ON SHEETS EC-3 AND EC-4.
5. ENSURE STREAM IS KEPT CLEAN UNTIL INSTALLATION OF PROPOSED PIPE SYSTEMS.

CULVERT CONSTRUCTION SEQUENCE - STAGE 2

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. UPON DRAINING OF POND AND ONCE POND BOTTOM HAS DRIED, ADJUST 18" TEMPORARY PIPE AND ASSOCIATED EROSION CONTROL MEASURES AS NECESSARY.
3. CONSTRUCT CLEAN WATER DIVERSION DITCH AND IMPERVIOUS DIKE, AND DIVERT FLOW THROUGH THE TEMPORARY PIPE.
4. CONSTRUCT PROPOSED 30" PIPE IN ACCORDANCE WITH THE PLANS.
5. REMOVE TEMPORARY PIPE, RESHAPE DIVERSION DITCHES TO NEWLY CONSTRUCTED PIPE, AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
6. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.



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 8/28/2017
 FARMING, LLC
 PRPRISES, LLC
 530565
 PG 739

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-17
RW SHEET NO. 6	

CULVERT CONSTRUCTION SEQUENCE -L- 78+25

CULVERT CONSTRUCTION SEQUENCE - STAGE 1

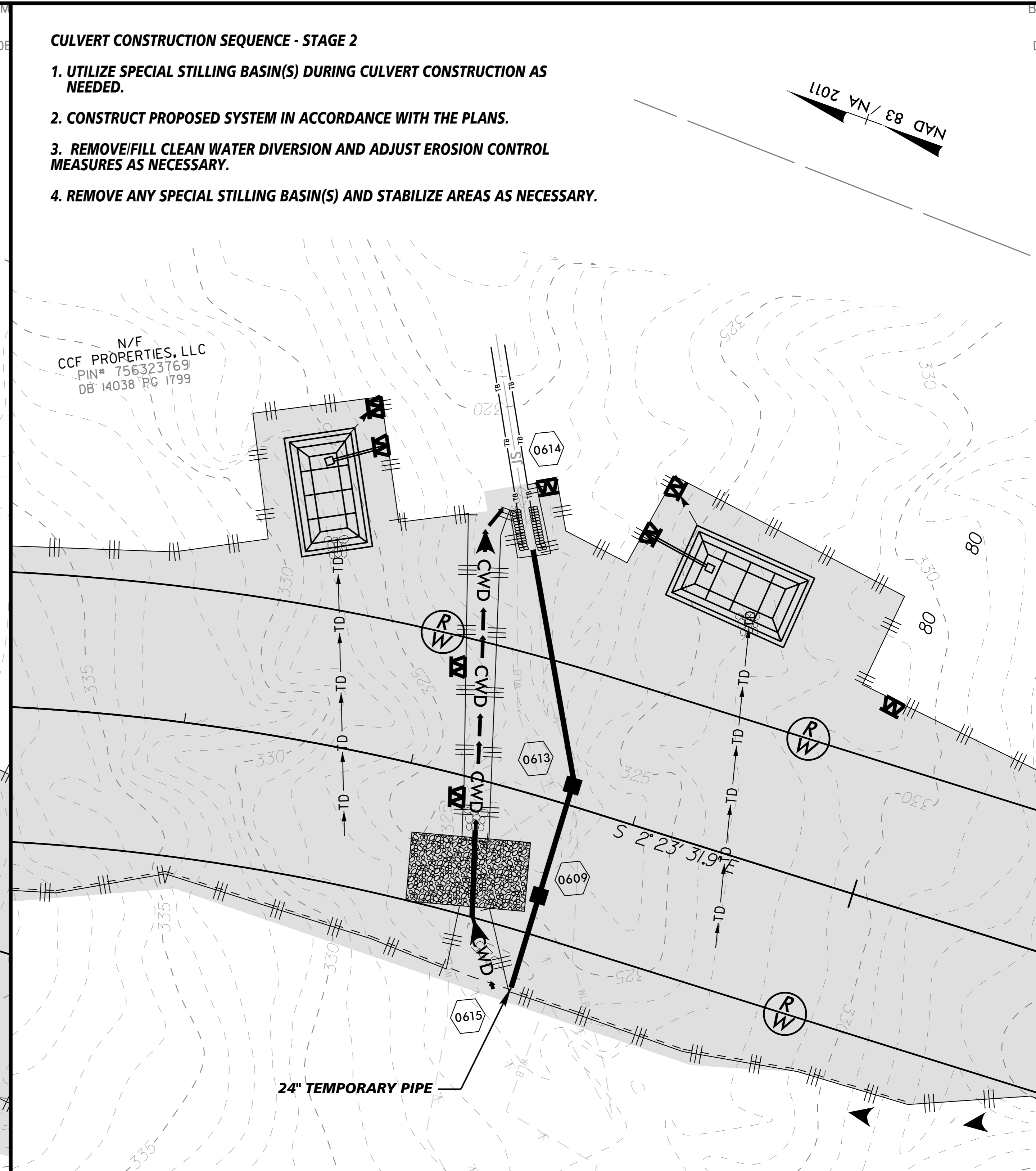
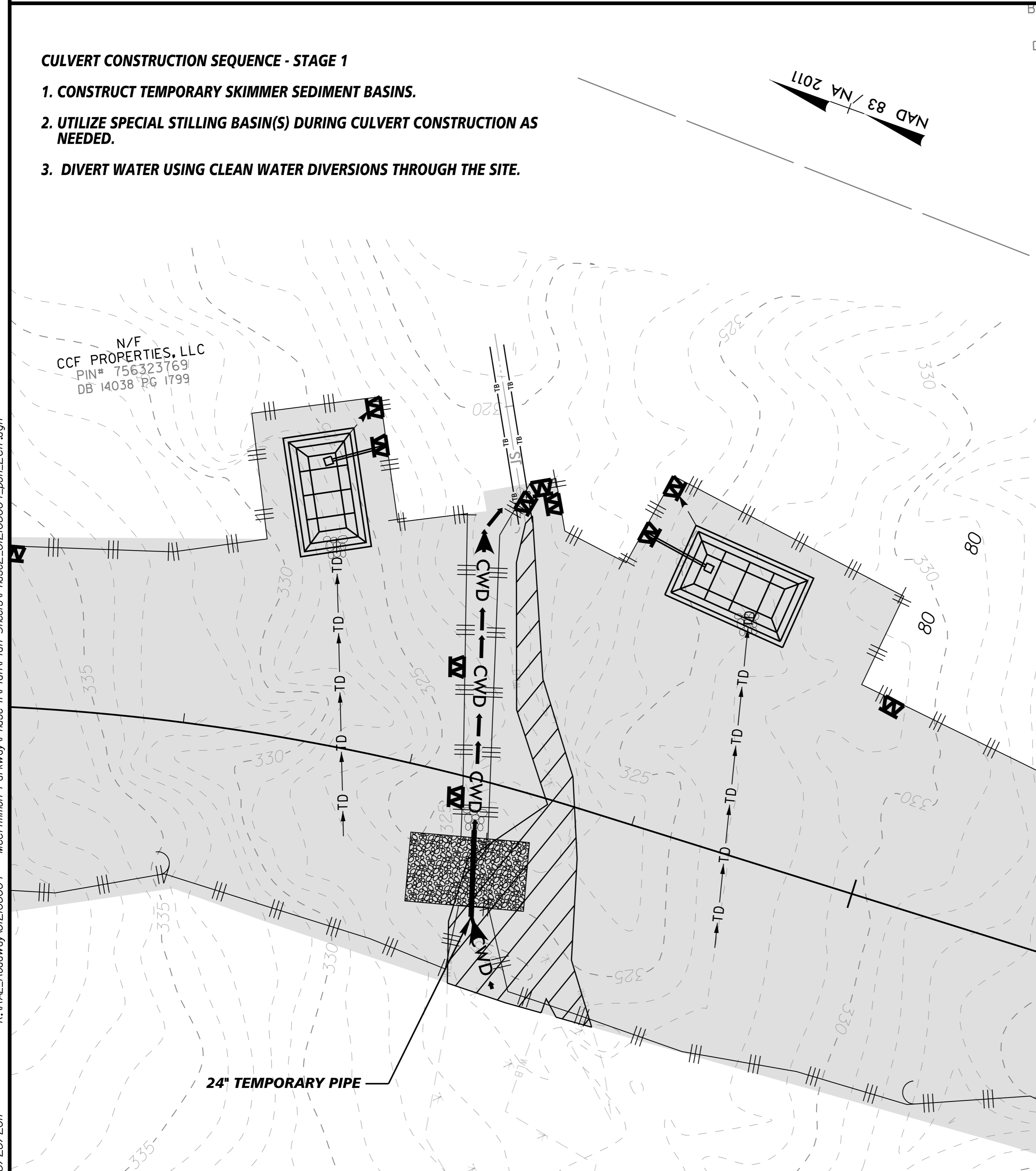
1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
3. DIVERT WATER USING CLEAN WATER DIVERSIONS THROUGH THE SITE.

CULVERT CONSTRUCTION SEQUENCE - STAGE 2

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. CONSTRUCT PROPOSED SYSTEM IN ACCORDANCE WITH THE PLANS.
3. REMOVE/FILL CLEAN WATER DIVERSION AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
4. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.

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8/28/2017



CULVERT CONSTRUCTION SEQUENCE

-L- 104+66

CULVERT CONSTRUCTION SEQUENCE - STAGE 1

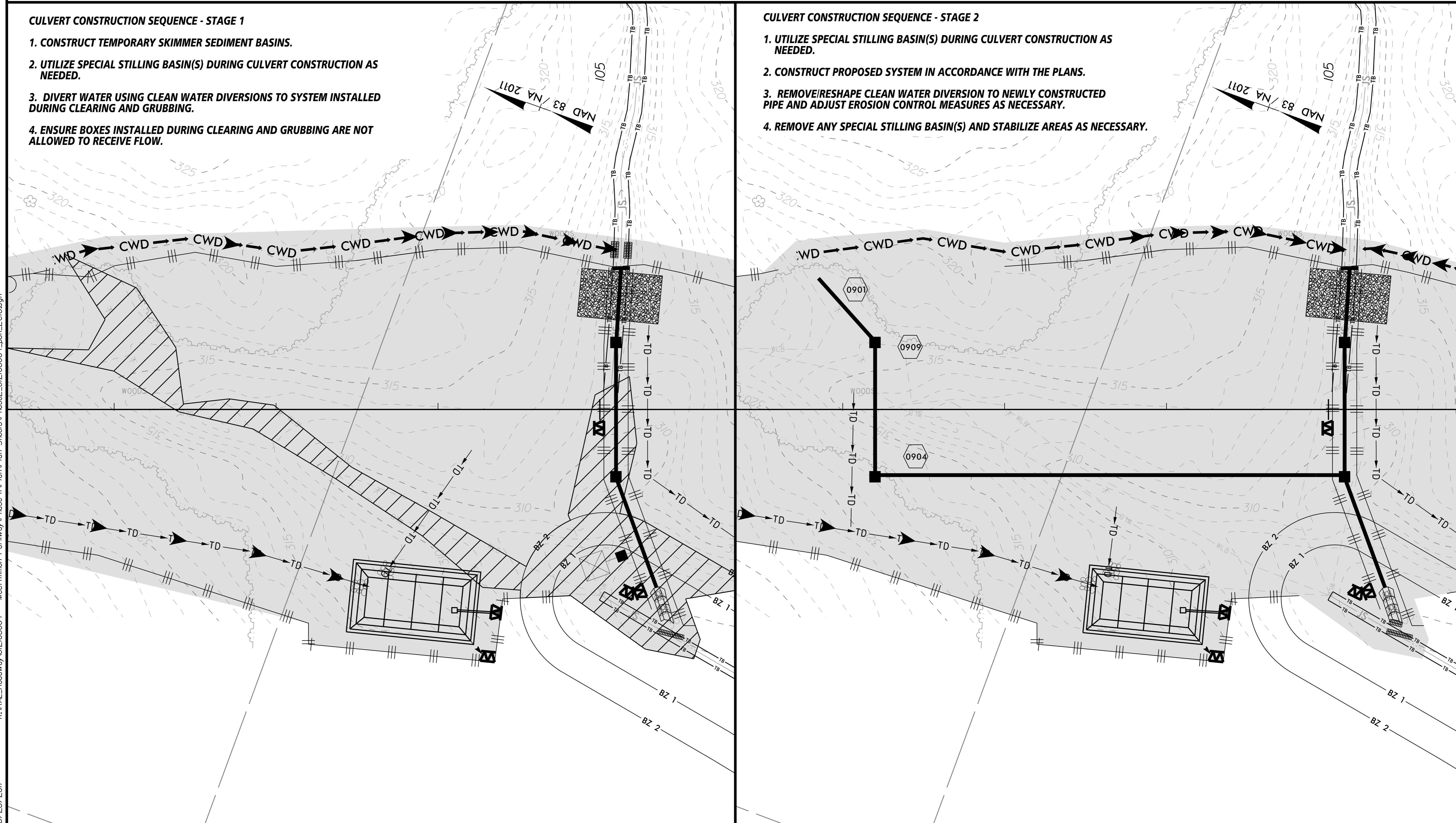
1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
3. DIVERT WATER USING CLEAN WATER DIVERSIONS TO SYSTEM INSTALLED DURING CLEARING AND GRUBBING.
4. ENSURE BOXES INSTALLED DURING CLEARING AND GRUBBING ARE NOT ALLOWED TO RECEIVE FLOW.

CULVERT CONSTRUCTION SEQUENCE - STAGE 2

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. CONSTRUCT PROPOSED SYSTEM IN ACCORDANCE WITH THE PLANS.
3. REMOVE/RESHAPE CLEAN WATER DIVERSION TO NEWLY CONSTRUCTED PIPE AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
4. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.

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8/28/2017



PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-19
RW SHEET NO. 10	

CULVERT CONSTRUCTION SEQUENCE -L- 112+15

CULVERT CONSTRUCTION SEQUENCE - STAGE 1

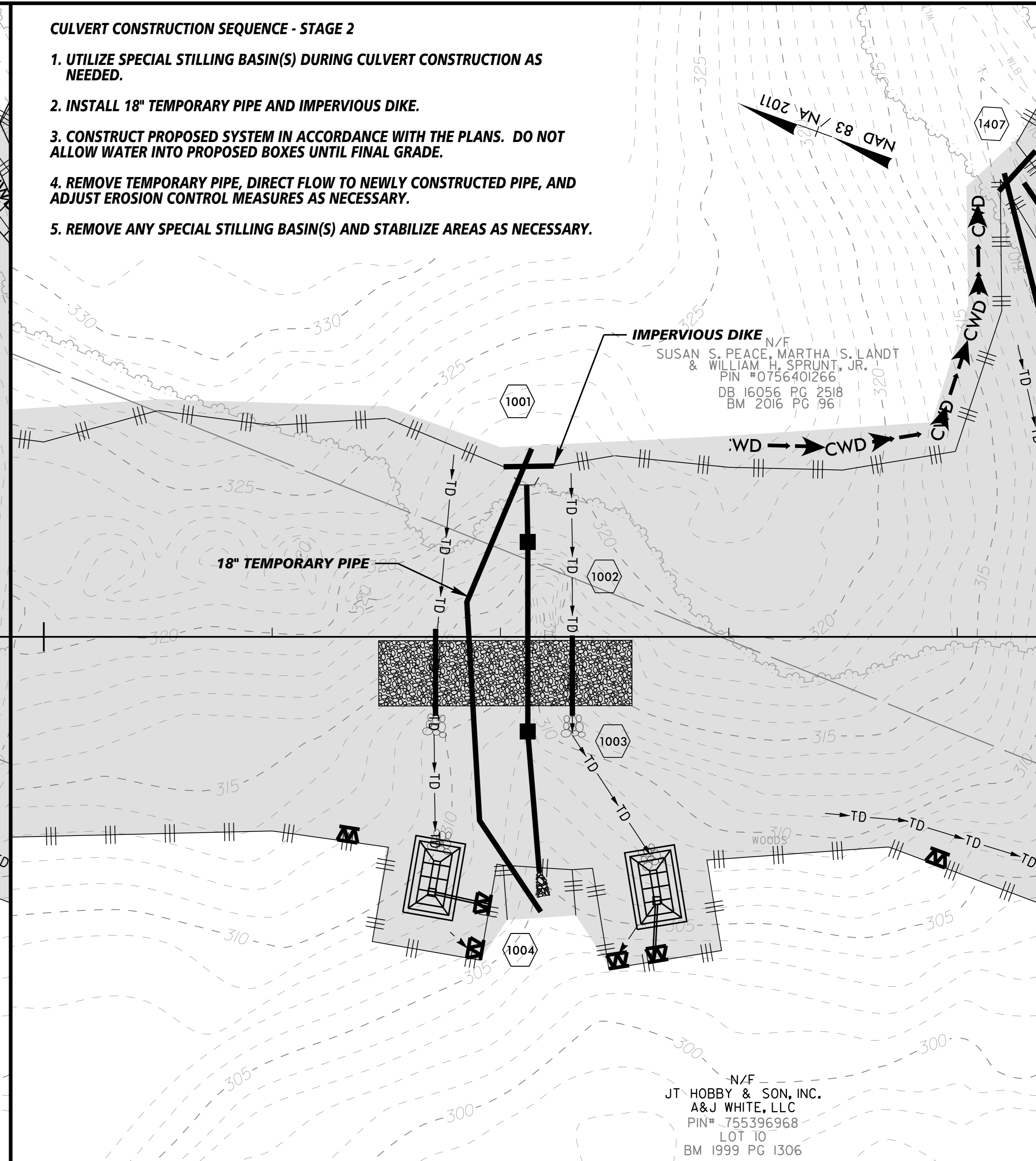
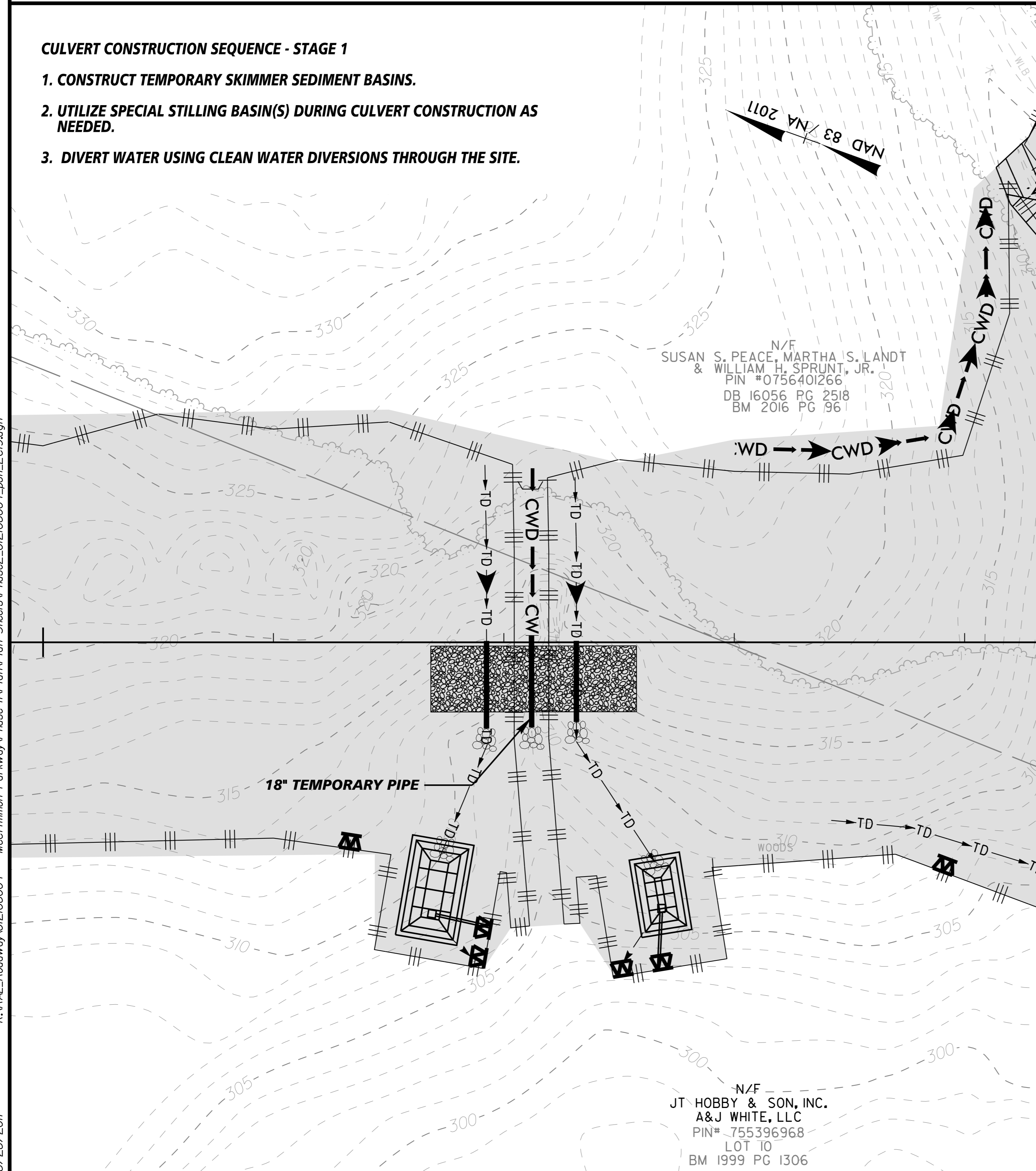
1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
3. DIVERT WATER USING CLEAN WATER DIVERSIONS THROUGH THE SITE.

CULVERT CONSTRUCTION SEQUENCE - STAGE 2

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. INSTALL 18" TEMPORARY PIPE AND IMPERVIOUS DIKE.
3. CONSTRUCT PROPOSED SYSTEM IN ACCORDANCE WITH THE PLANS. DO NOT ALLOW WATER INTO PROPOSED BOXES UNTIL FINAL GRADE.
4. REMOVE TEMPORARY PIPE, DIRECT FLOW TO NEWLY CONSTRUCTED PIPE, AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
5. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.

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8/28/2017



PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-20
R/W SHEET NO. 10	

CULVERT CONSTRUCTION SEQUENCE -L- 115+15

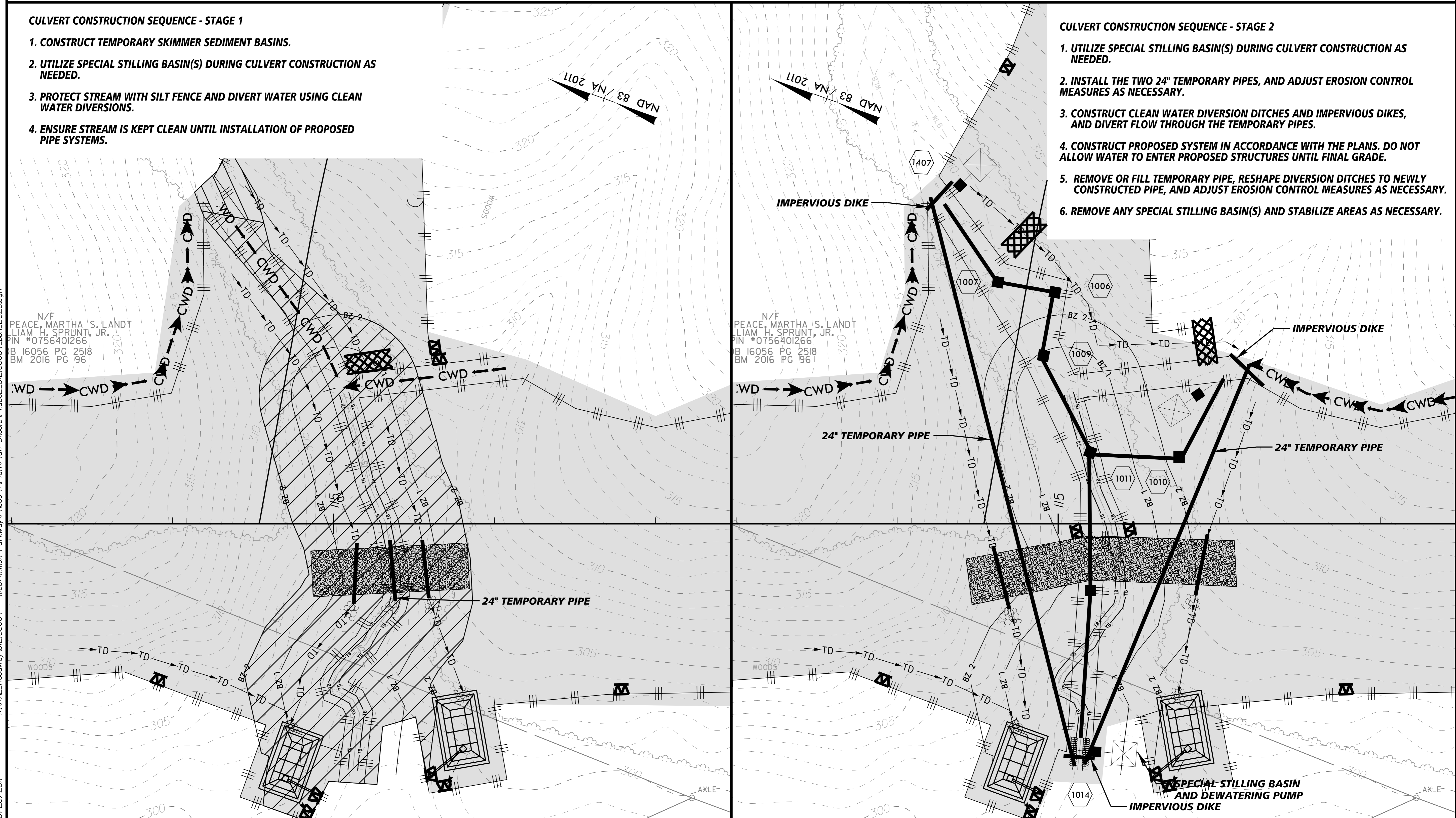
CULVERT CONSTRUCTION SEQUENCE - STAGE 1

1. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS.
2. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
3. PROTECT STREAM WITH SILT FENCE AND DIVERT WATER USING CLEAN WATER DIVERSIONS.
4. ENSURE STREAM IS KEPT CLEAN UNTIL INSTALLATION OF PROPOSED PIPE SYSTEMS.

CULVERT CONSTRUCTION SEQUENCE - STAGE 2

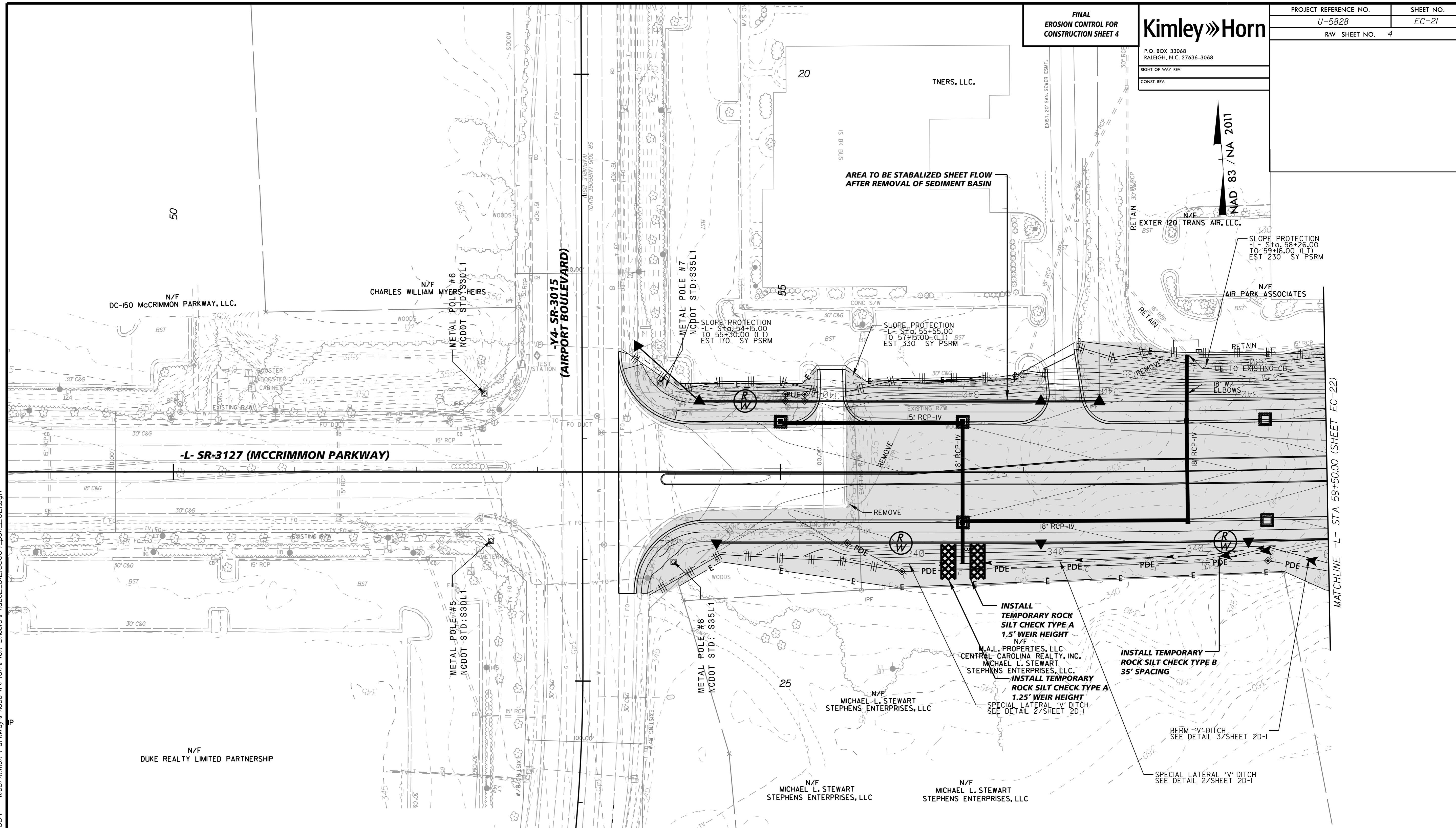
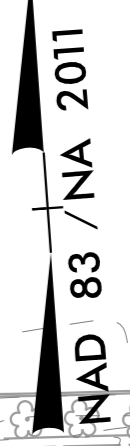
1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. INSTALL THE TWO 24" TEMPORARY PIPES, AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
3. CONSTRUCT CLEAN WATER DIVERSION DITCHES AND IMPERVIOUS DIKES, AND DIVERT FLOW THROUGH THE TEMPORARY PIPES.
4. CONSTRUCT PROPOSED SYSTEM IN ACCORDANCE WITH THE PLANS. DO NOT ALLOW WATER TO ENTER PROPOSED STRUCTURES UNTIL FINAL GRADE.
5. REMOVE OR FILL TEMPORARY PIPE, RESHAPE DIVERSION DITCHES TO NEWLY CONSTRUCTED PIPE, AND ADJUST EROSION CONTROL MEASURES AS NECESSARY.
6. REMOVE ANY SPECIAL STILLING BASIN(S) AND STABILIZE AREAS AS NECESSARY.

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8/28/2017



N/F
PEACE, MARTHA S. LANDT
LIAM H. SPRUNT, JR.
PIN #0756401266
B 16056 PG 2518
BM 2016 PG 96

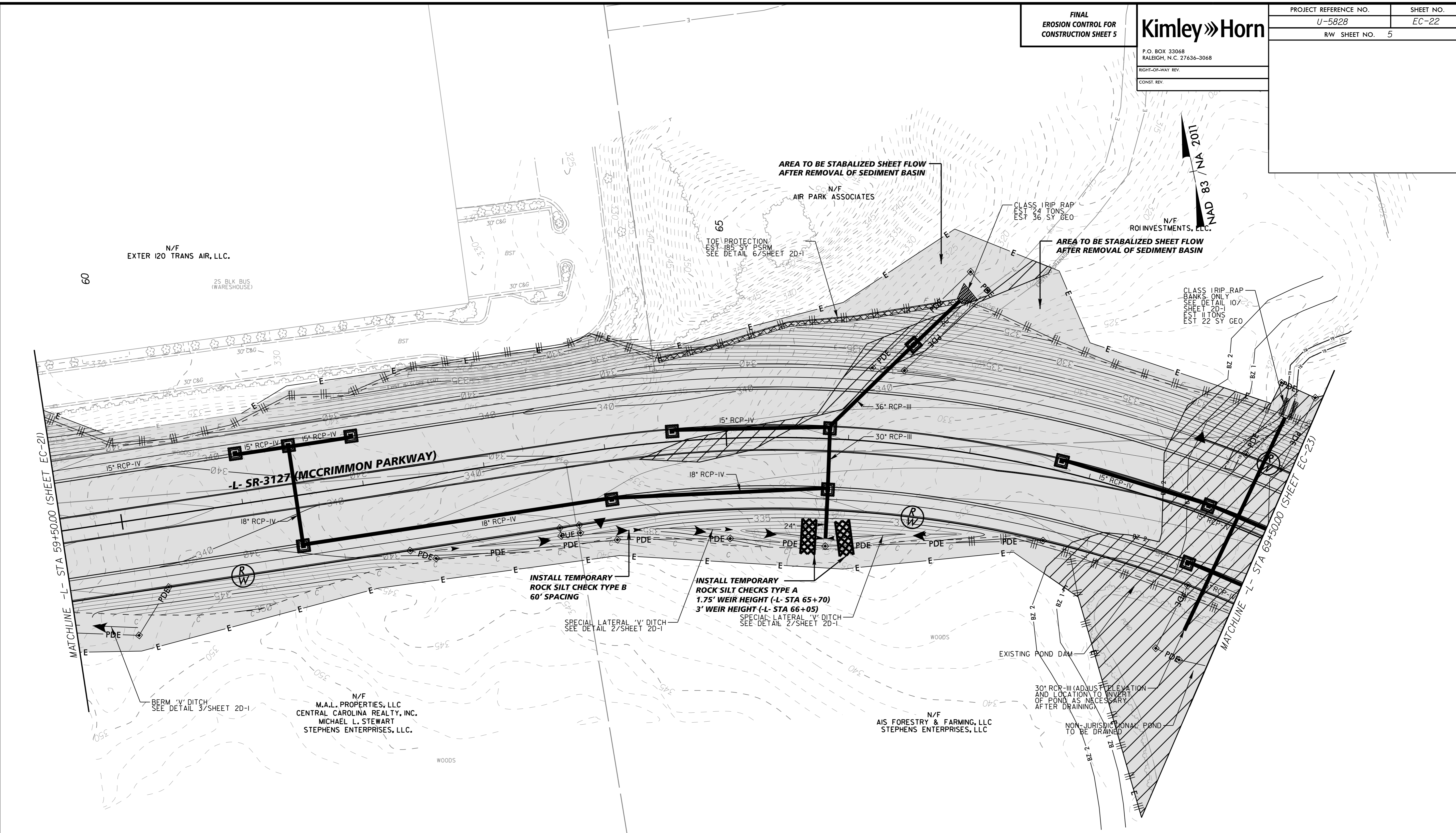
N/F
PEACE, MARTHA S. LANDT
LIAM H. SPRUNT, JR.
PIN #0756401266
B 16056 PG 2518
BM 2016 PG 96



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	



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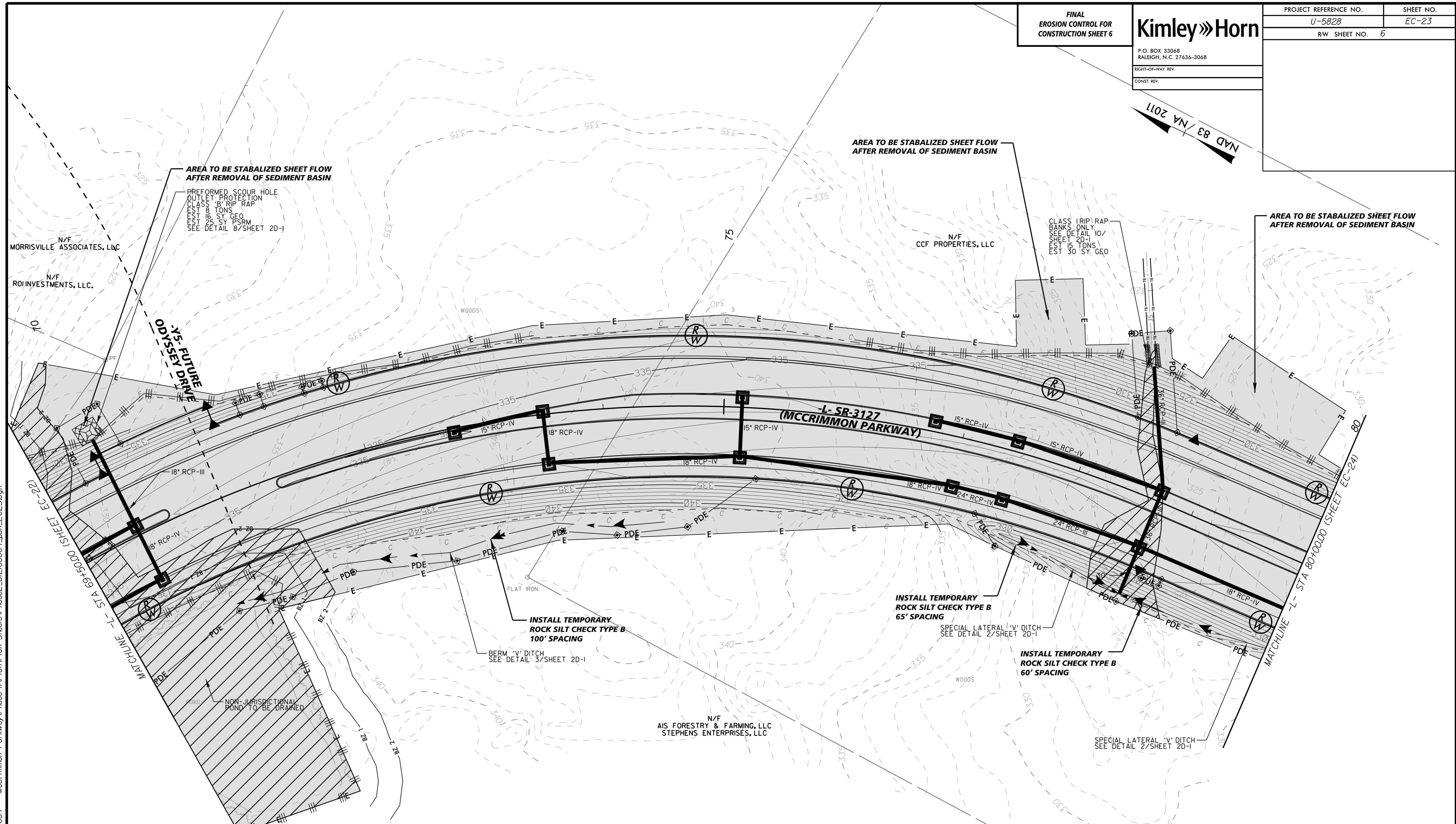


Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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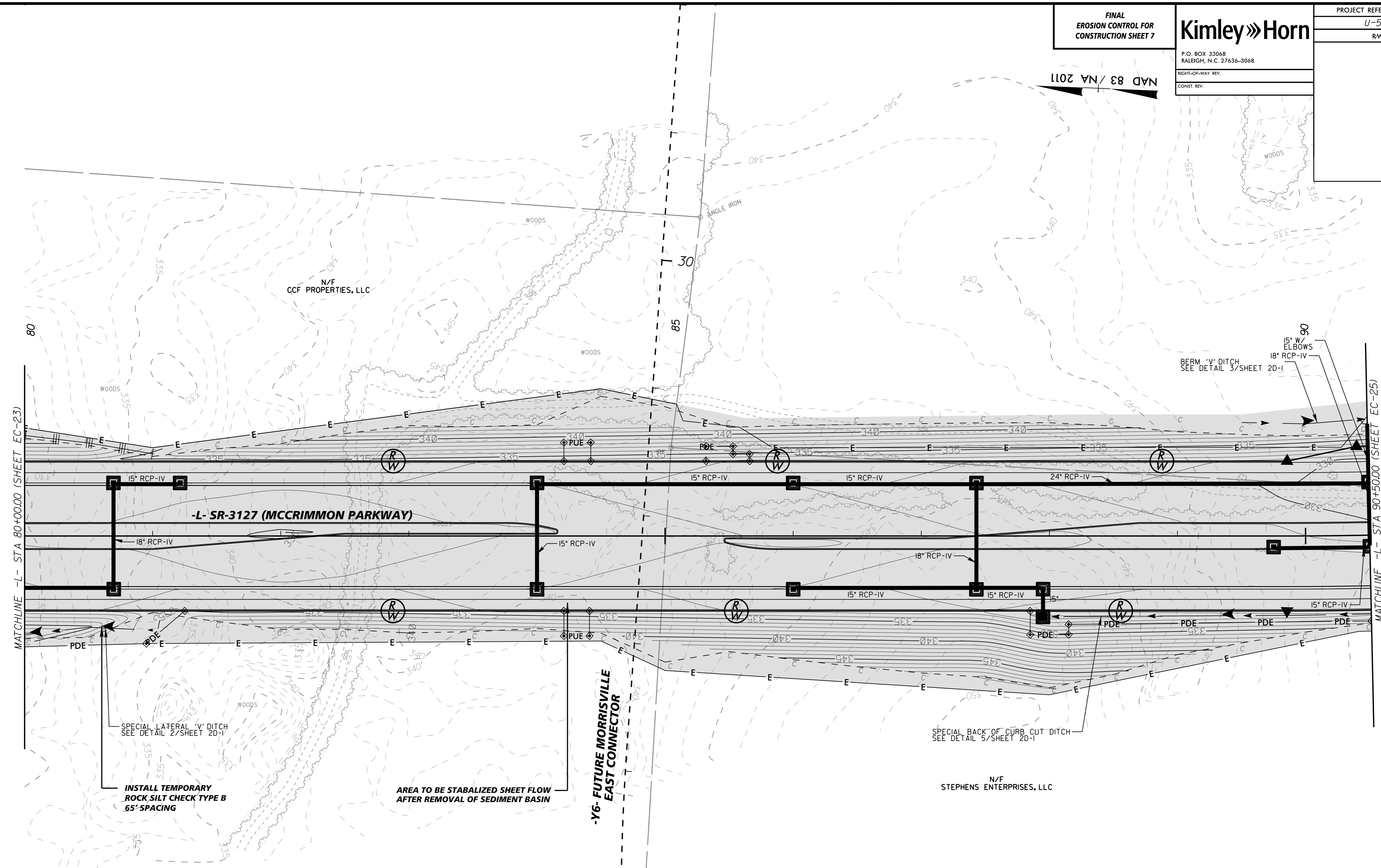
NAD 83 / NA 2011



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Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
	Limits of Disturbance (Shaded)		Environmentally Sensitive Area (See Project Special Provisions)	

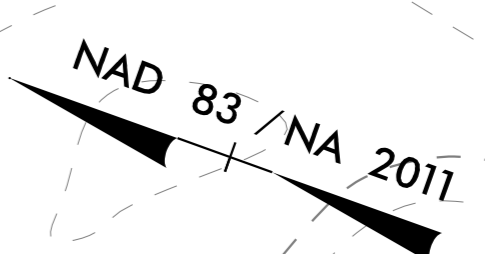
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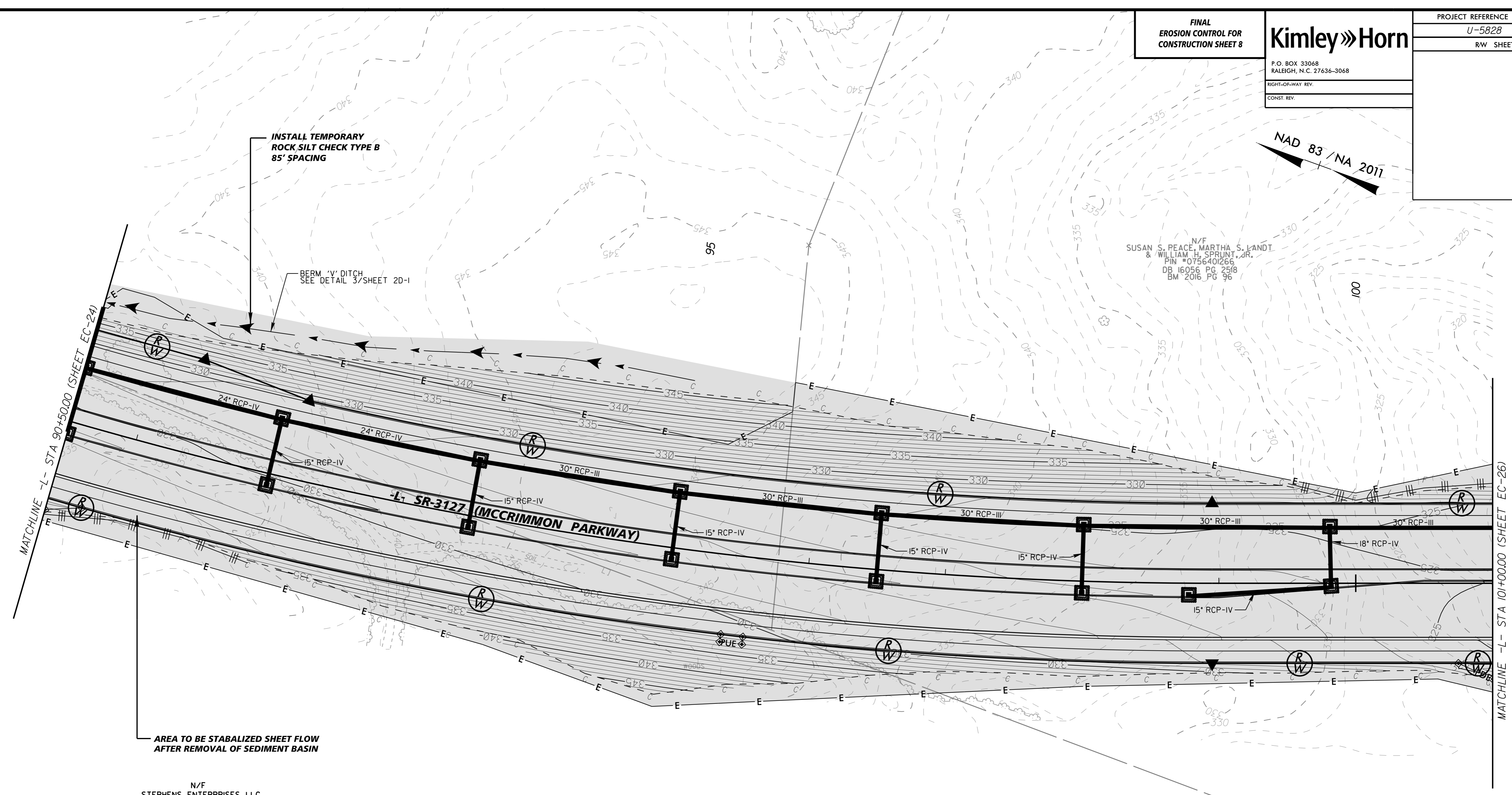
Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	→ TD →	Sediment Basin Emergency Spillway	→ → →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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N/F
SUSAN S. PEACE, MARTHA S. LANDI
& WILLIAM H. SPRUNT, JR.
PIN #0756401266
DB 16056 PG 2518
BM 2016 PG 96



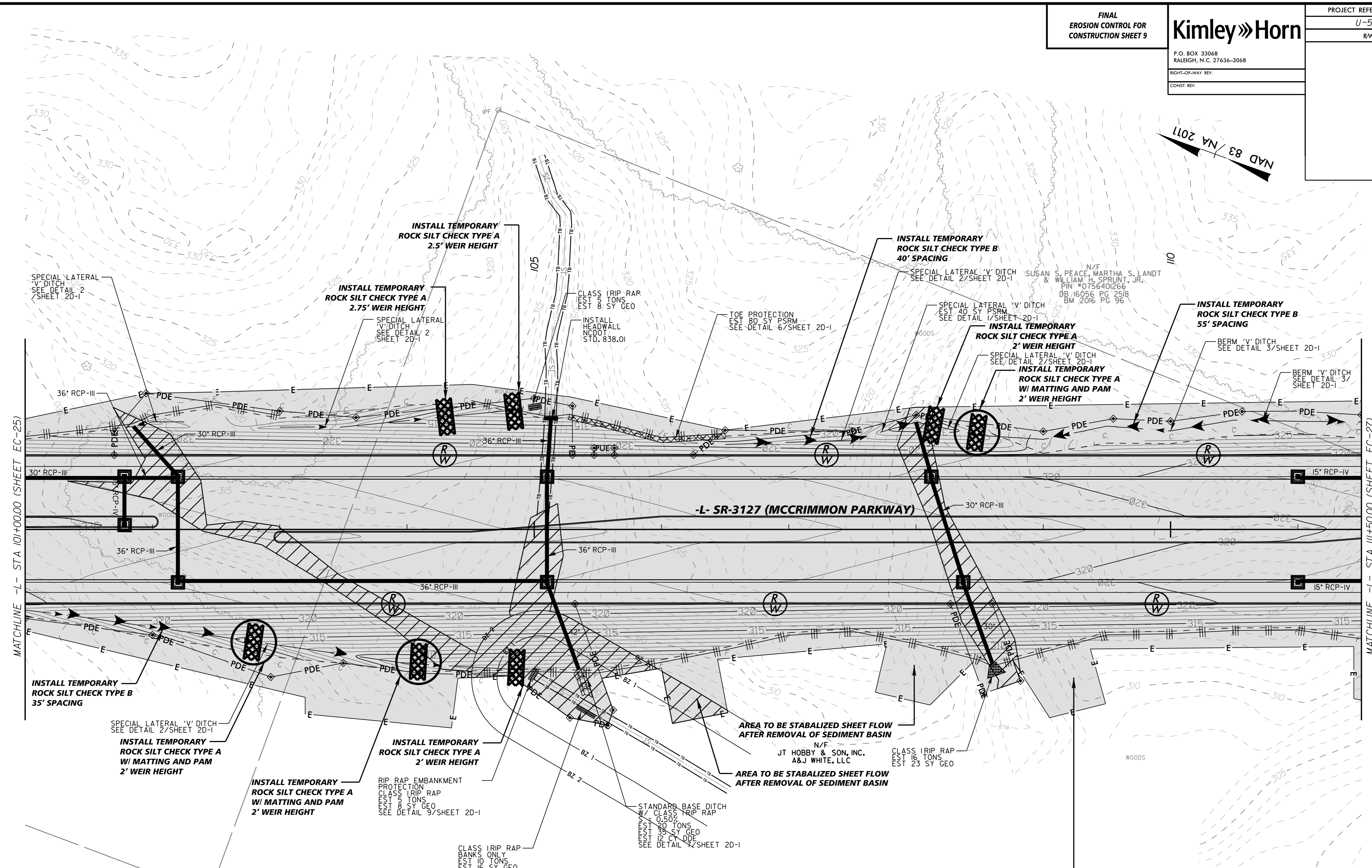
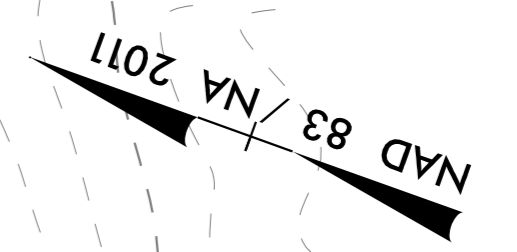
AREA TO BE STABILIZED SHEET FLOW
AFTER REMOVAL OF SEDIMENT BASIN

N/F
STEPHENS ENTERPRISES, LLC

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Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

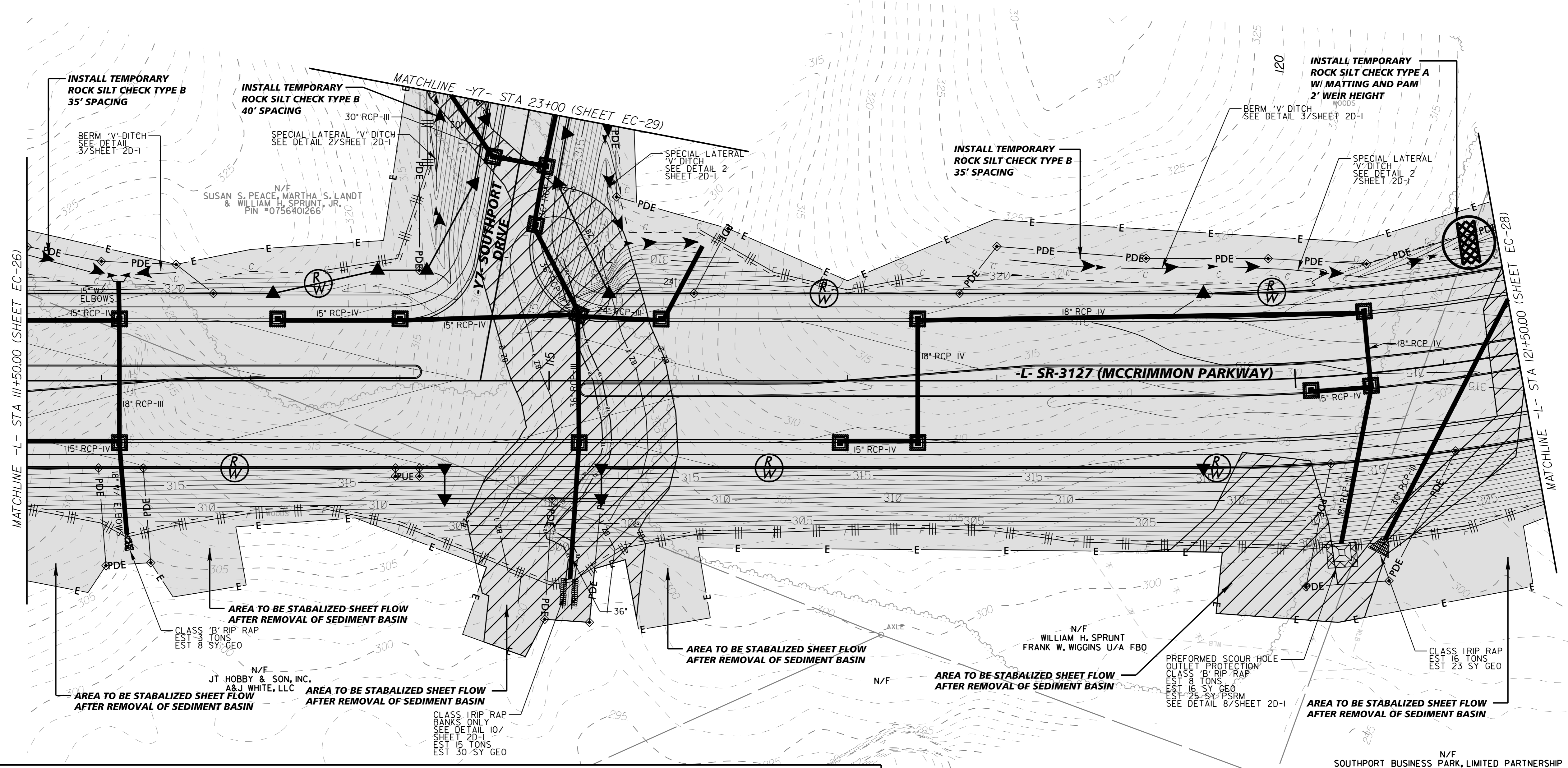
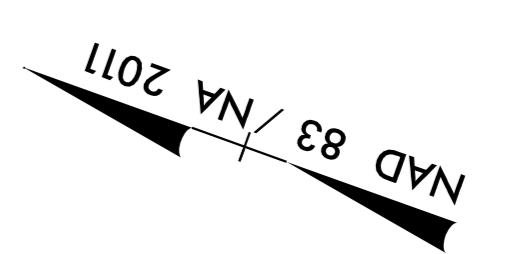


Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/ Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	



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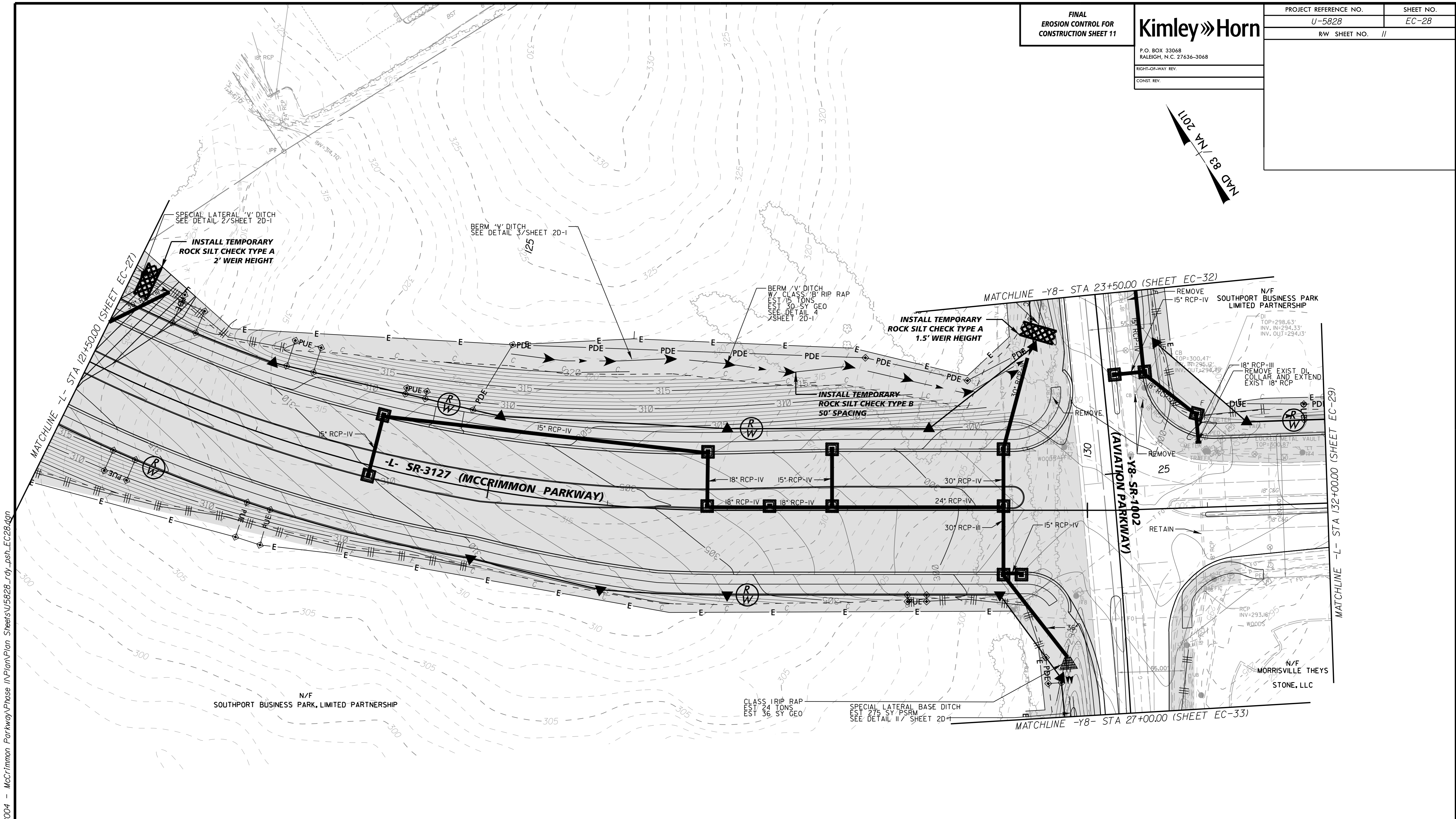
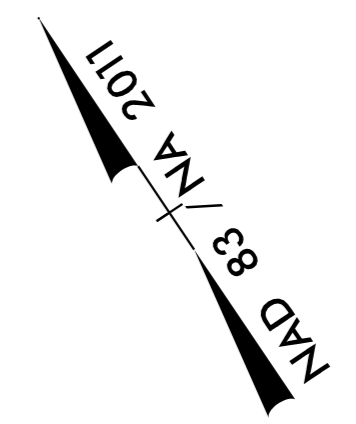
P.O. BOX 33068
RALEIGH, N.C. 27636-3068
RIGHT-OF-WAY REV.
CONST. REV.



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD →	Sediment Basin Emergency Spillway	→ →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	



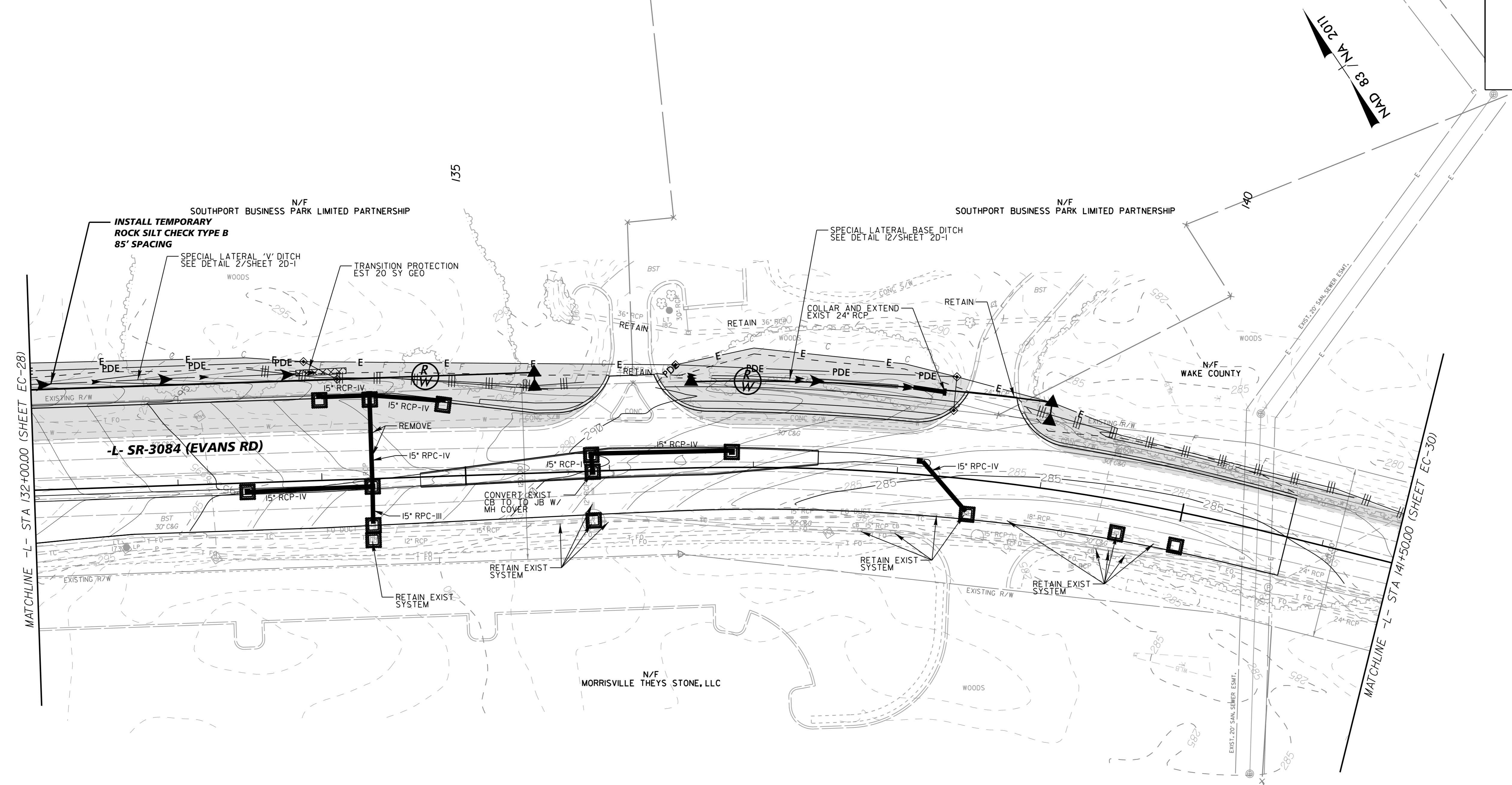
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1/31/2018

Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

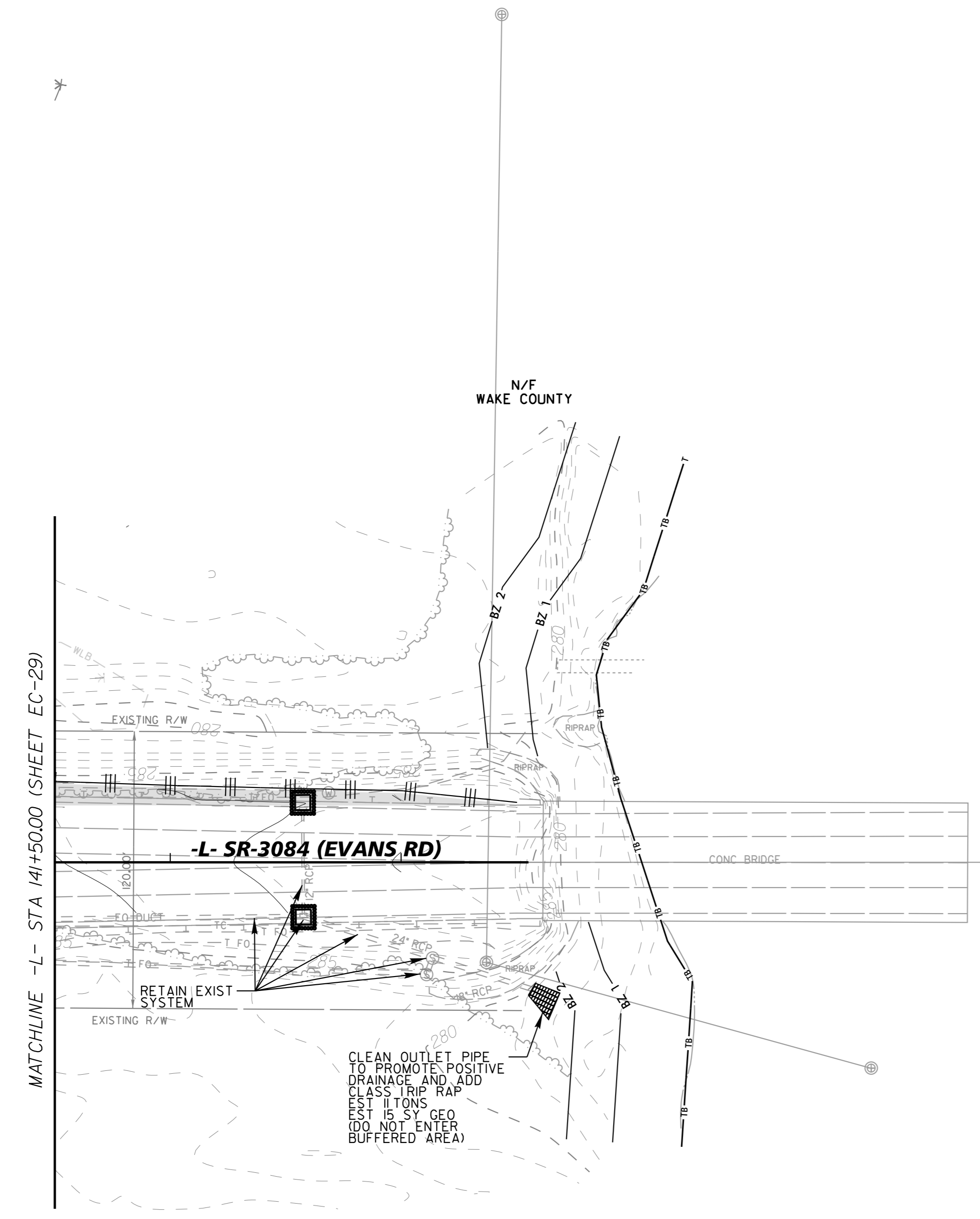
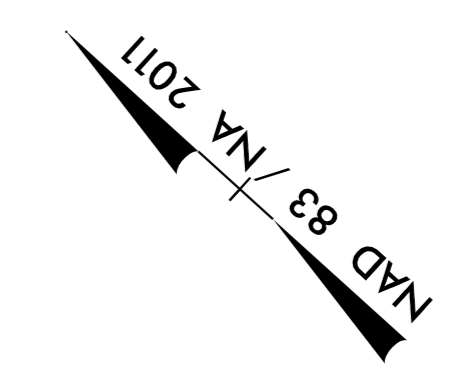




Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence	▤ ▤ ▤ ▤ ▤	Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	→ TD →	Sediment Basin Emergency Spillway	→ → →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	—
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	



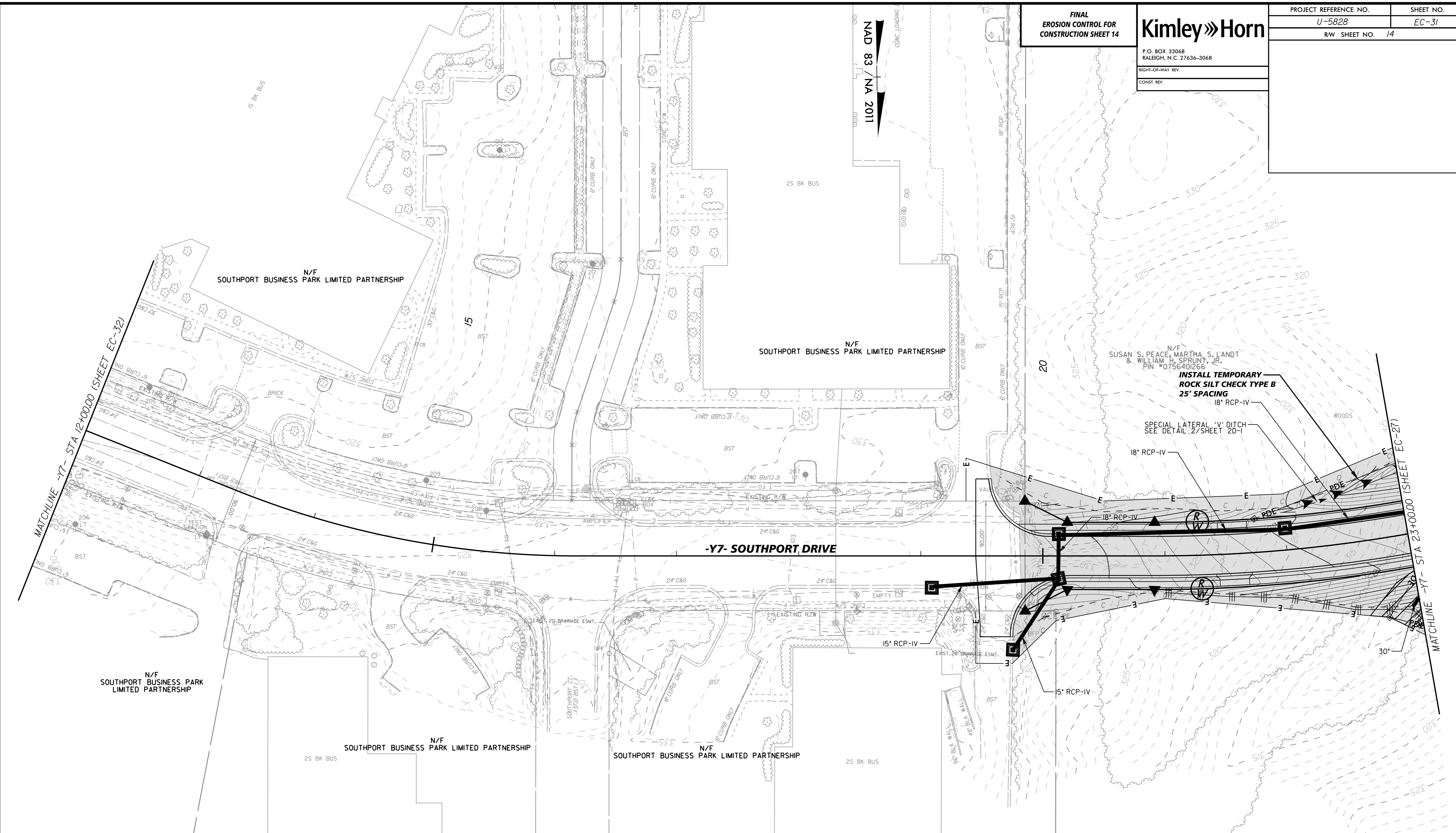
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Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

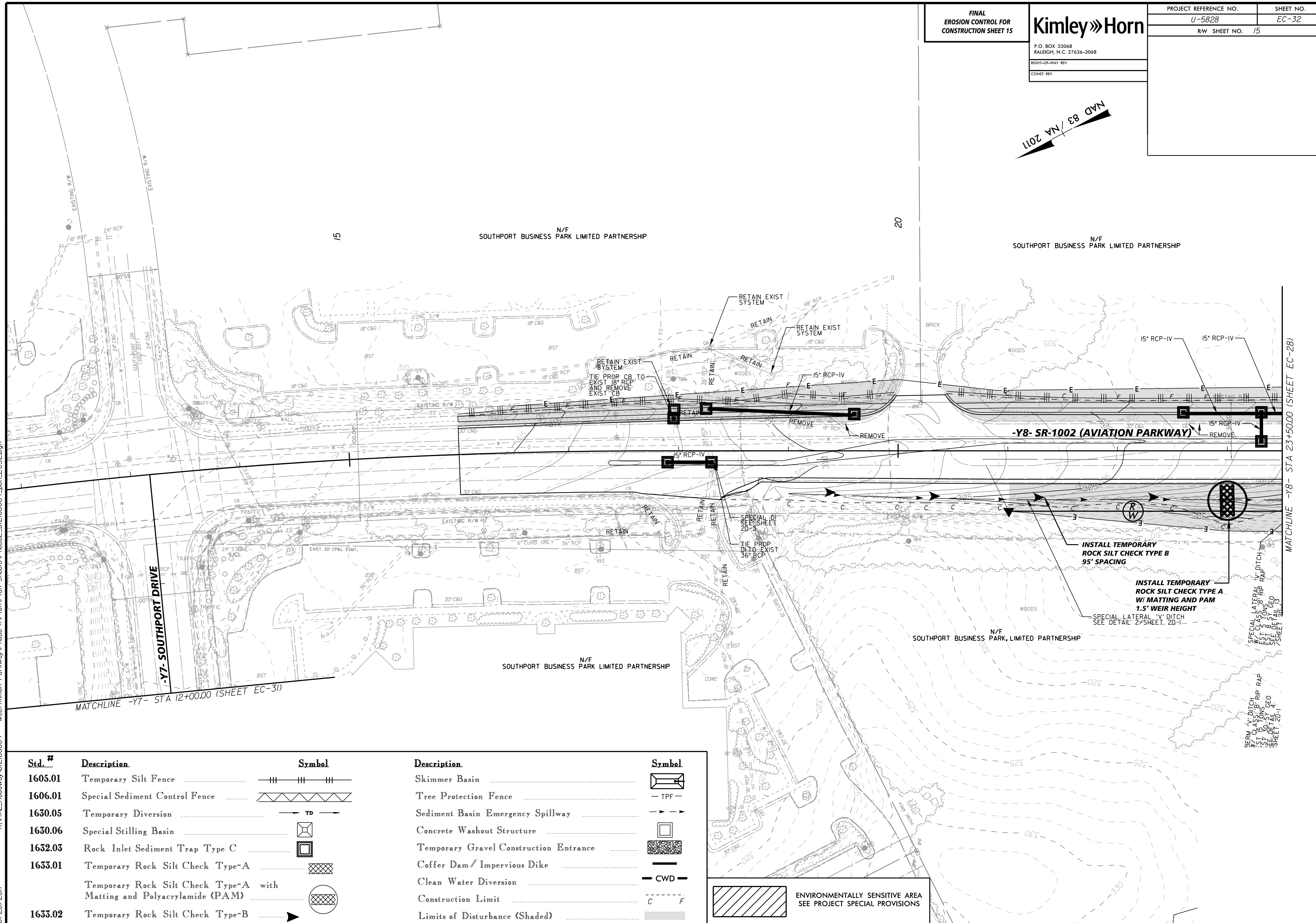
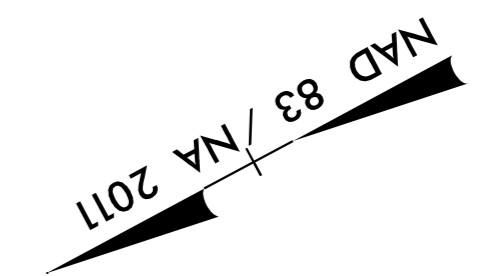
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	TD	Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	



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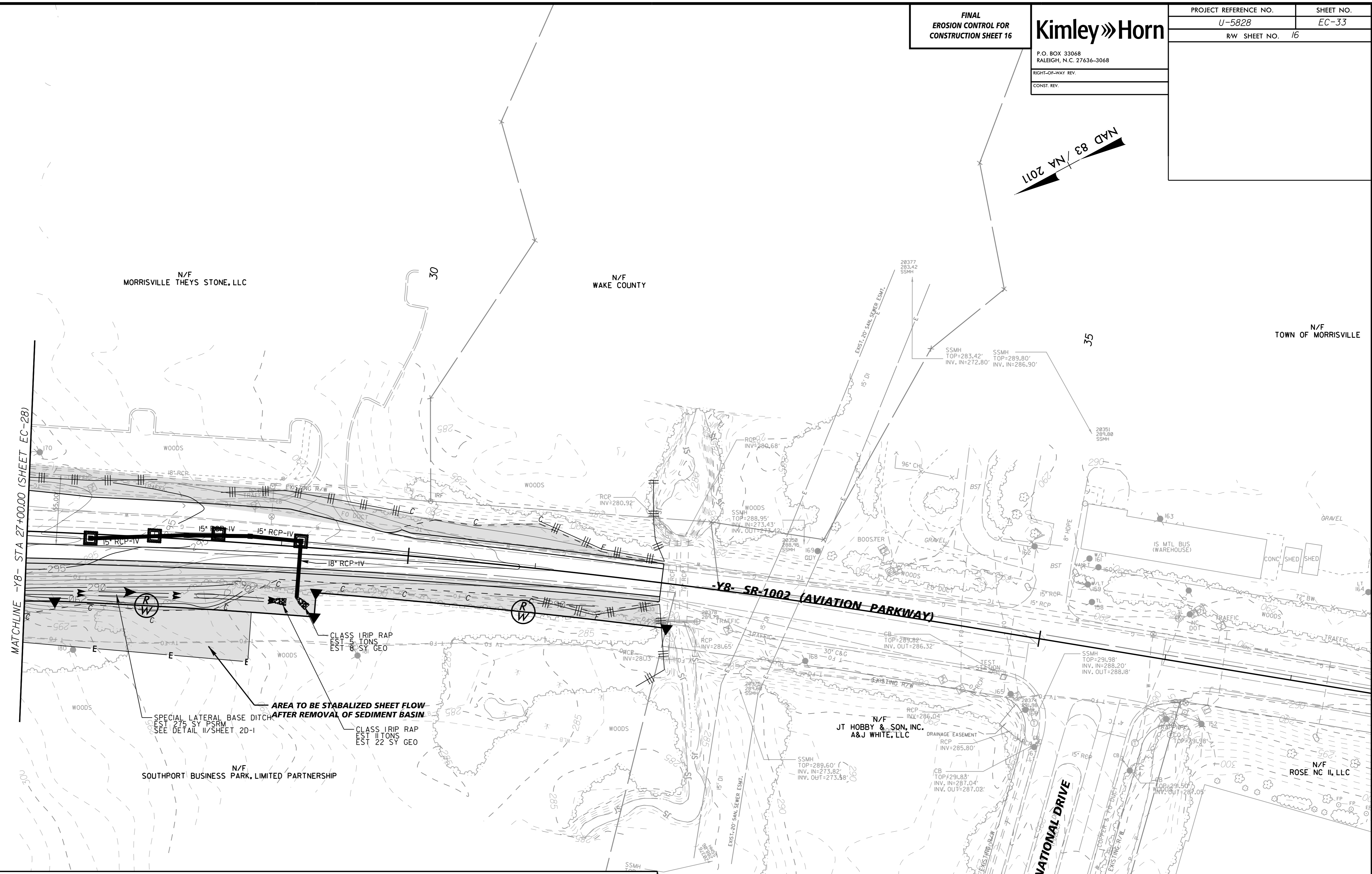


Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence	▤ ▤ ▤ ▤ ▤	Tree Protection Fence	- TPF -
1630.05	Temporary Diversion	→ TD →	Sediment Basin Emergency Spillway	→ → →
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam / Impervious Dike	—
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	- CWD -
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	C F
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-33
R/W SHEET NO.	16



Std. #	Description	Symbol	Description	Symbol
1605.01	Temporary Silt Fence		Skimmer Basin	
1606.01	Special Sediment Control Fence		Tree Protection Fence	
1630.05	Temporary Diversion		Sediment Basin Emergency Spillway	
1630.06	Special Stilling Basin		Concrete Washout Structure	
1632.03	Rock Inlet Sediment Trap Type C		Temporary Gravel Construction Entrance	
1633.01	Temporary Rock Silt Check Type-A		Coffer Dam/Impervious Dike	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		Clean Water Diversion	
1633.02	Temporary Rock Silt Check Type-B		Construction Limit	
			Limits of Disturbance (Shaded)	

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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1/31/2018

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-34
R/W SHEET NO.	

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

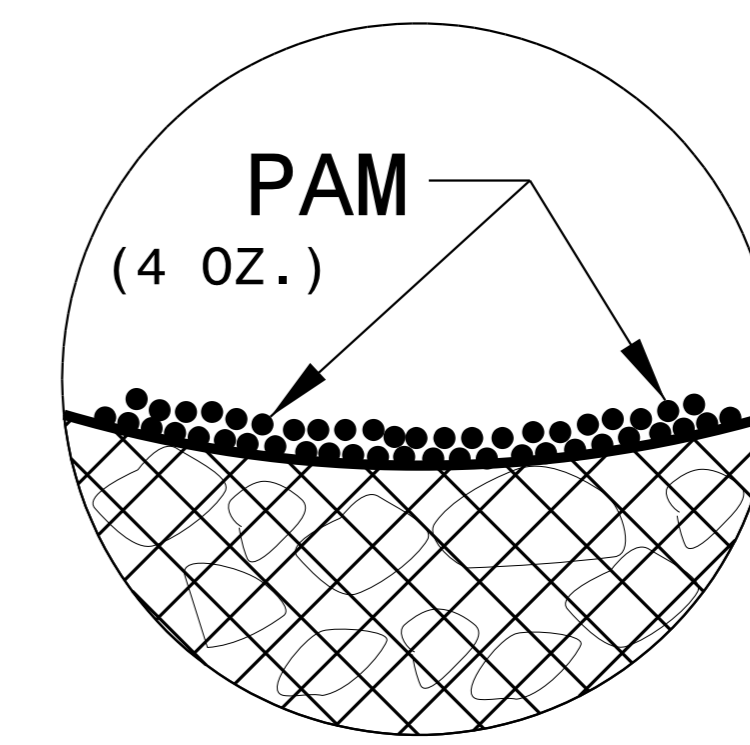
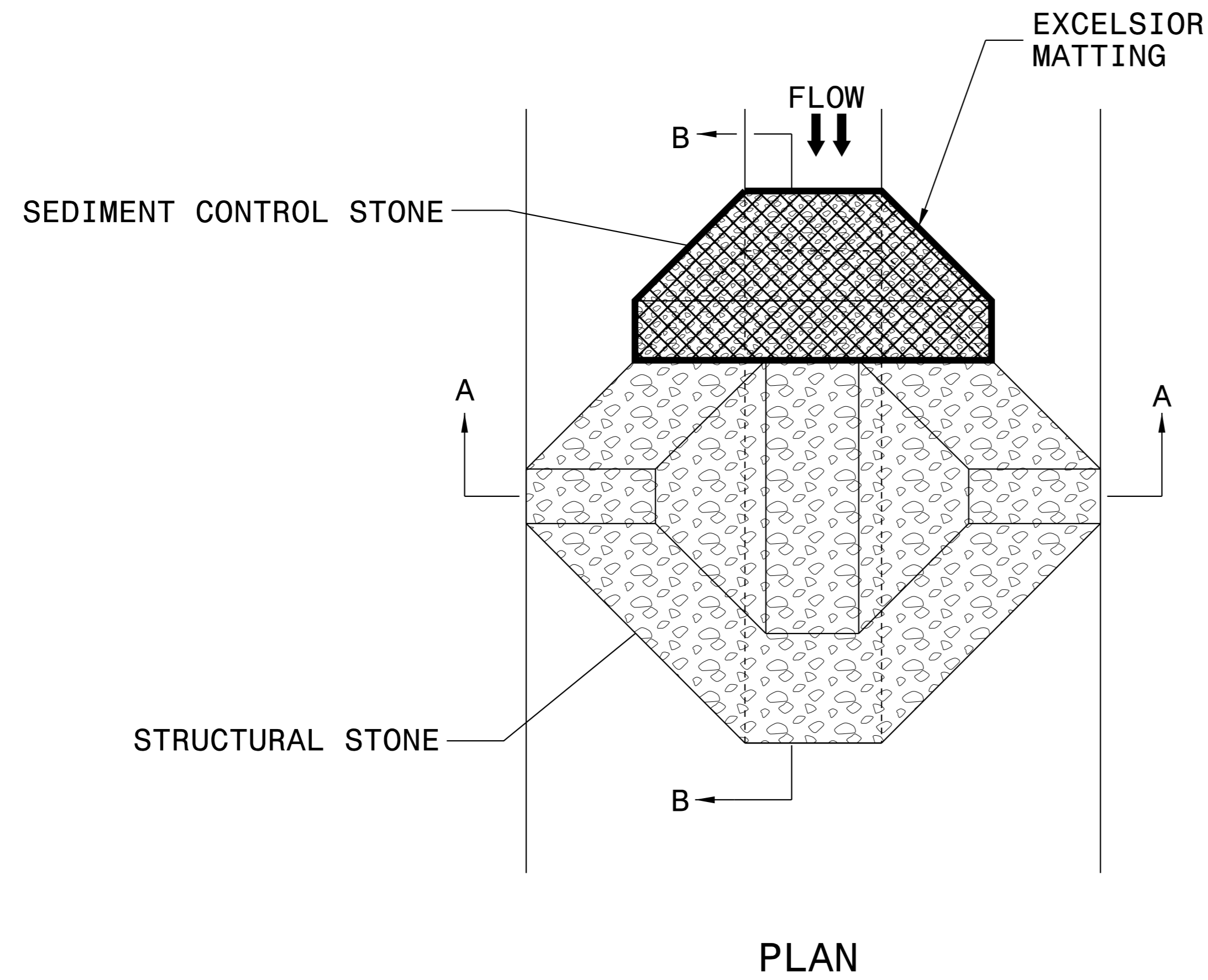
NOTES:

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

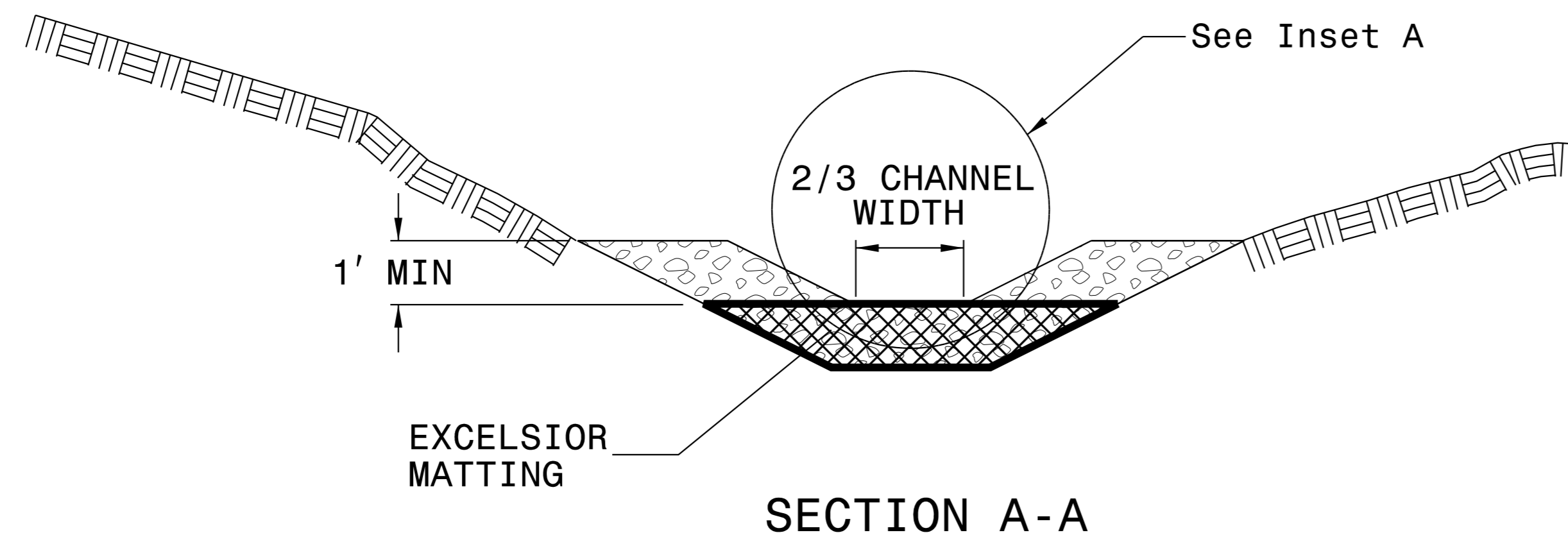
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

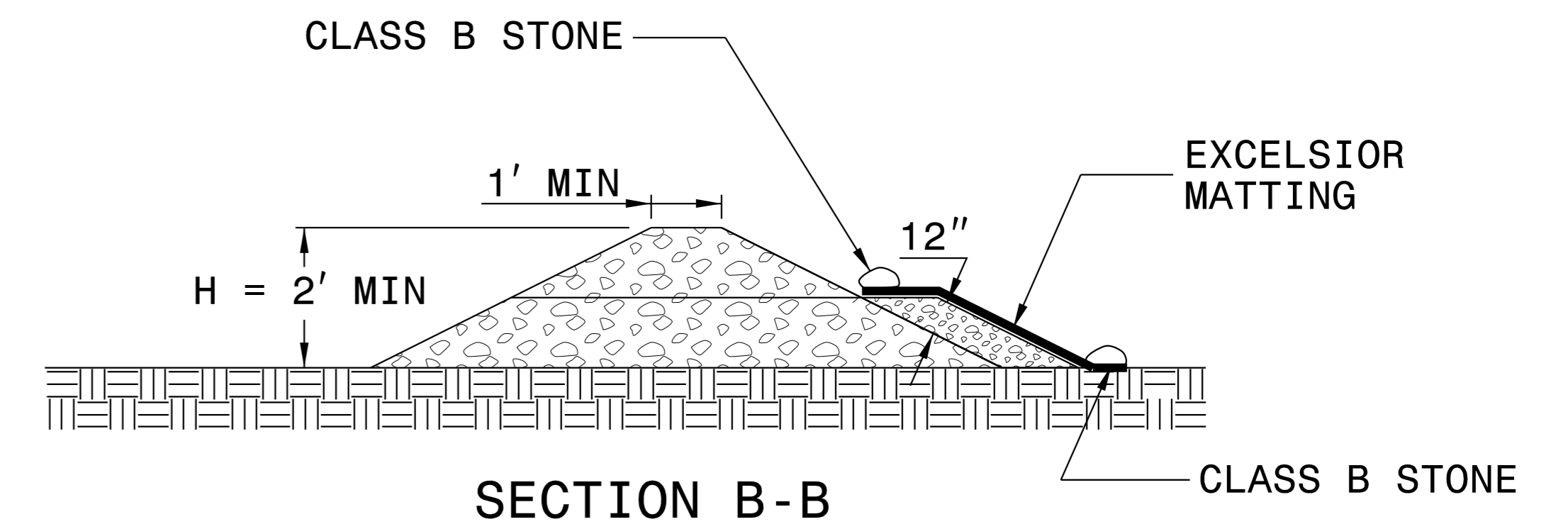
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

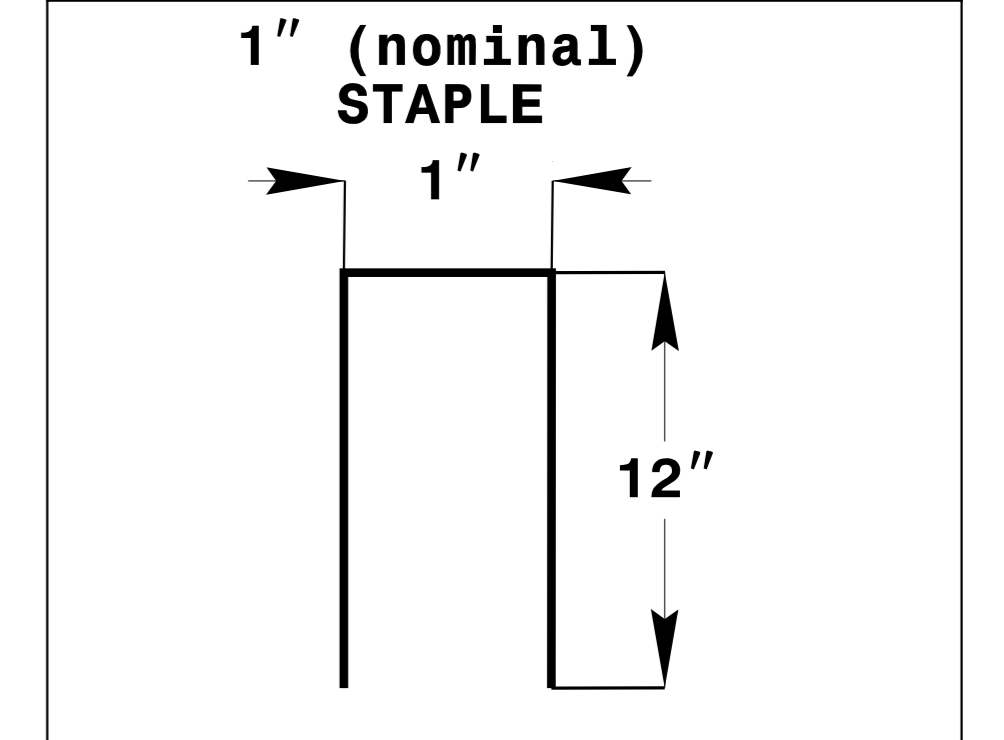
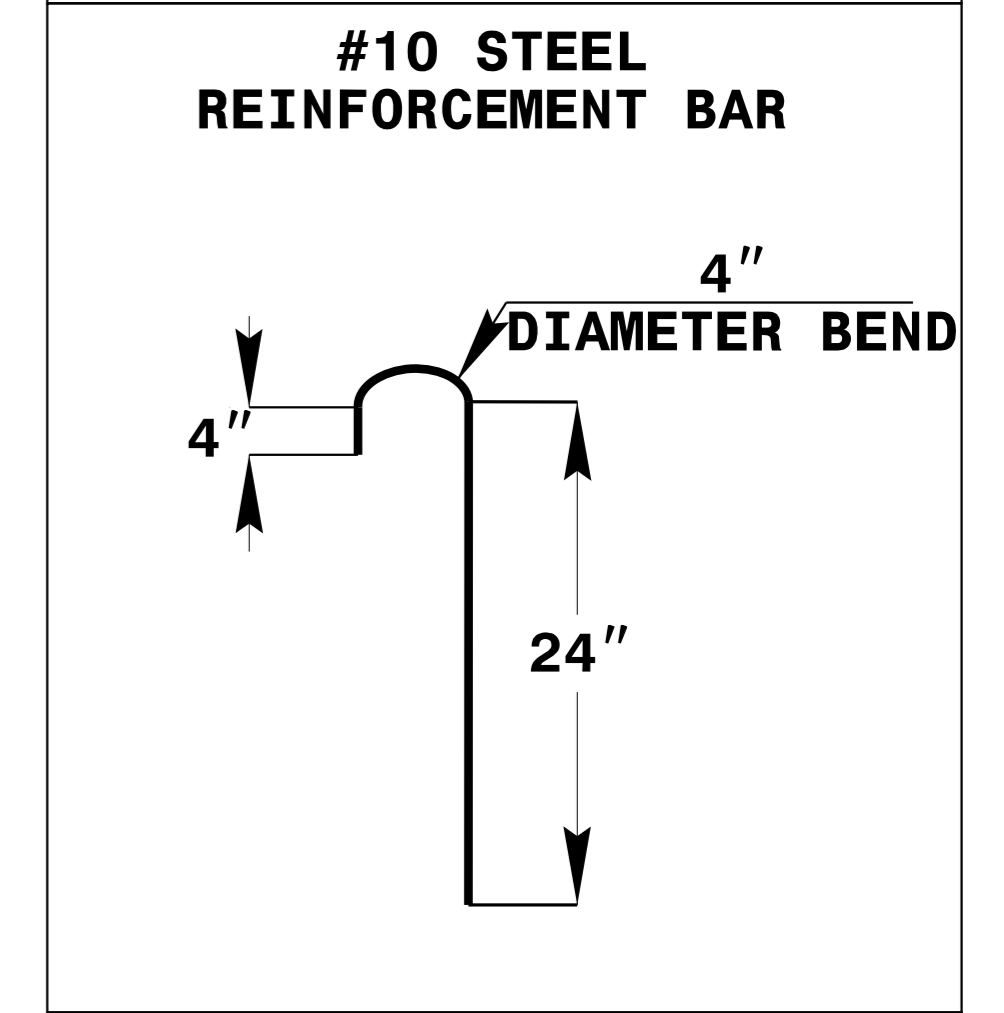
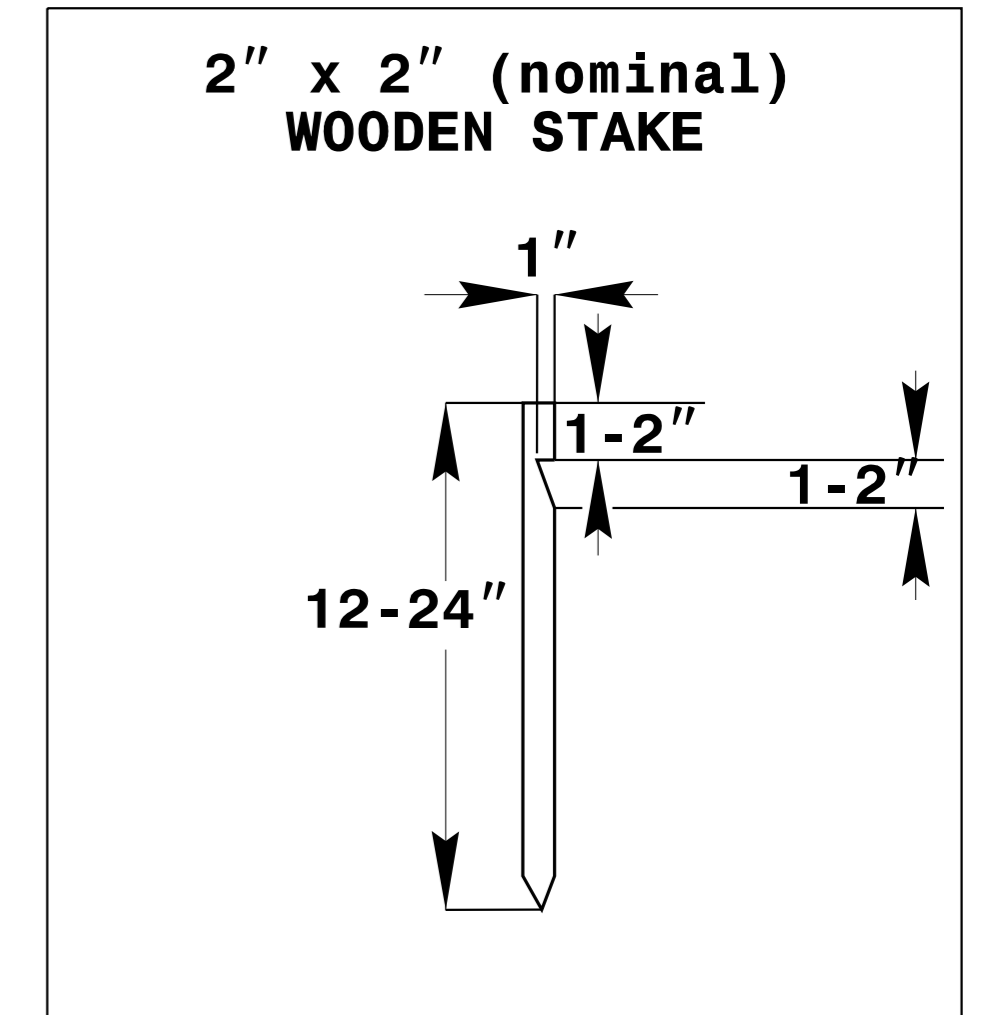
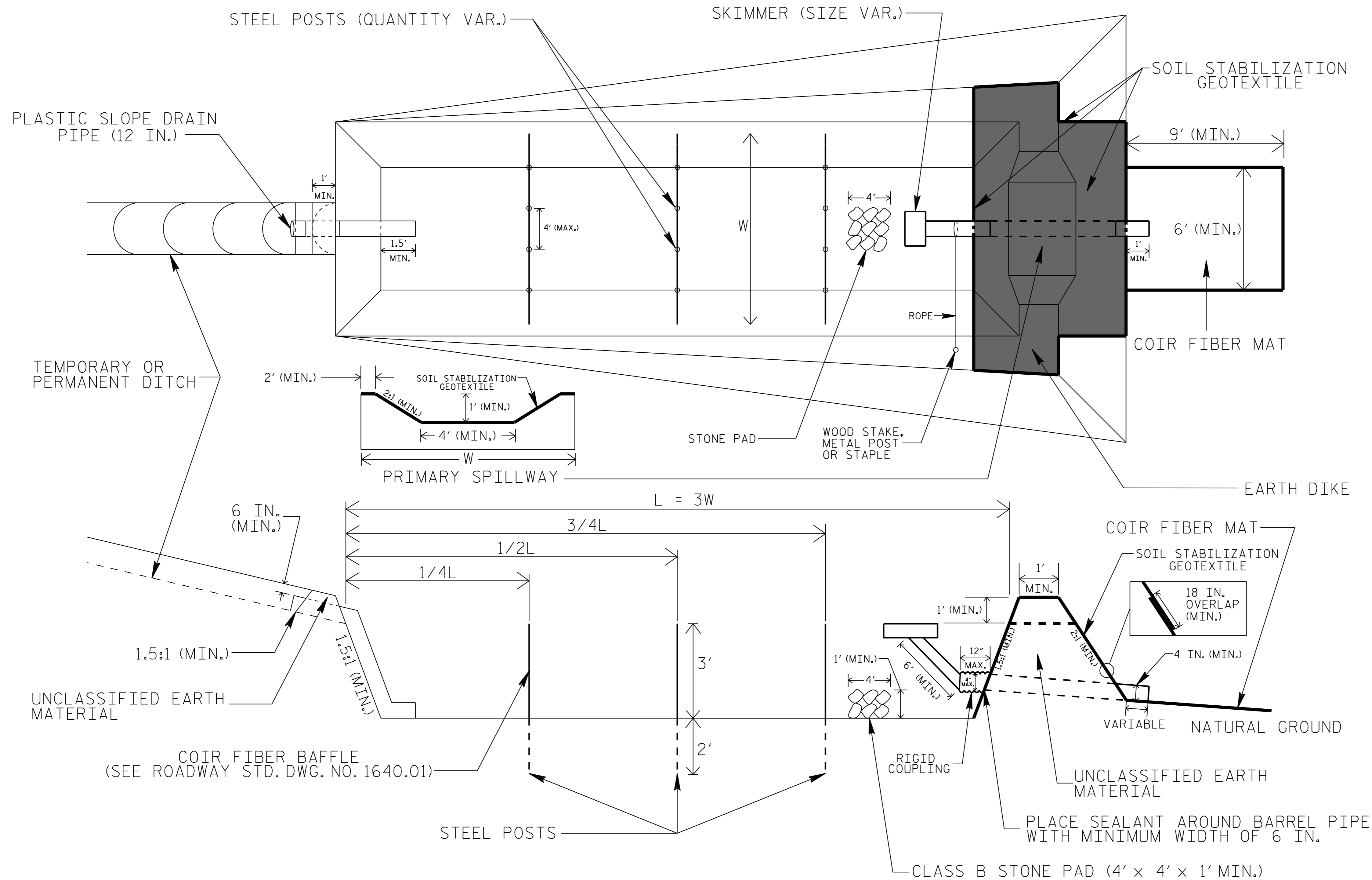
NOT TO SCALE

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8/28/2017

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-35
R/W SHEET NO.	

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

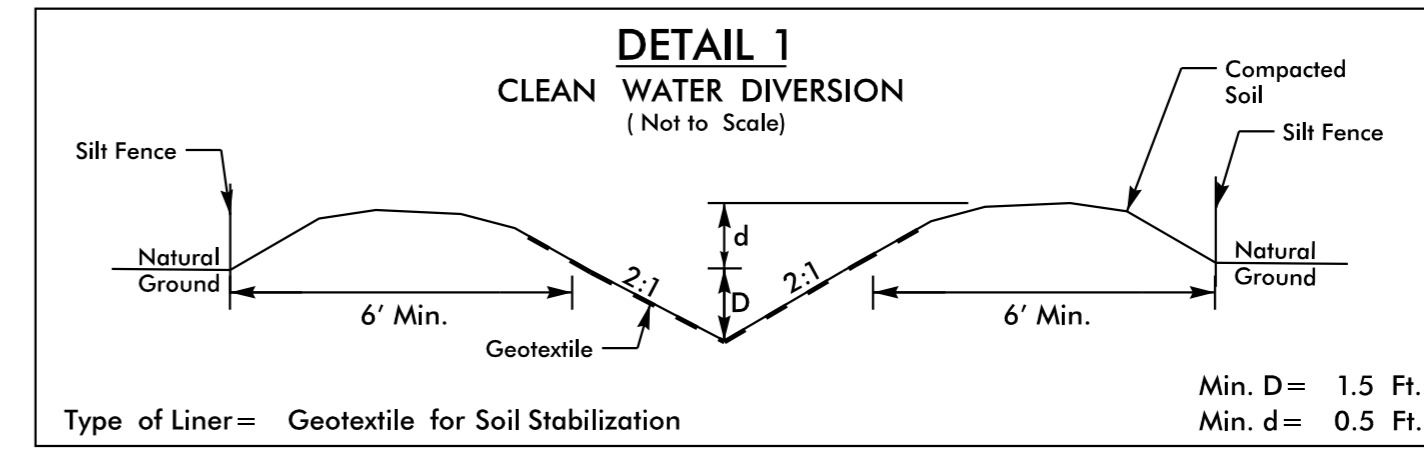
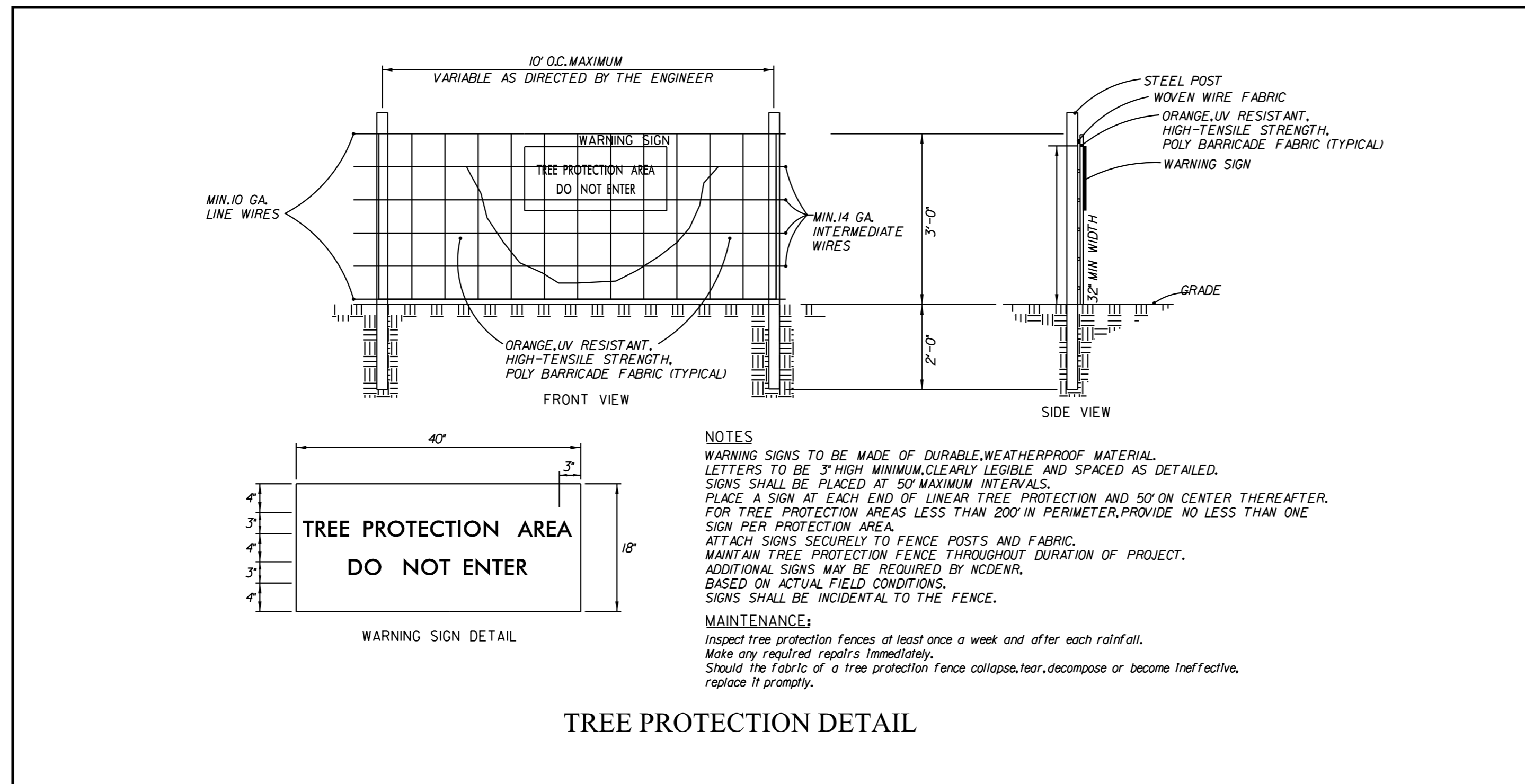
NOTES

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.).

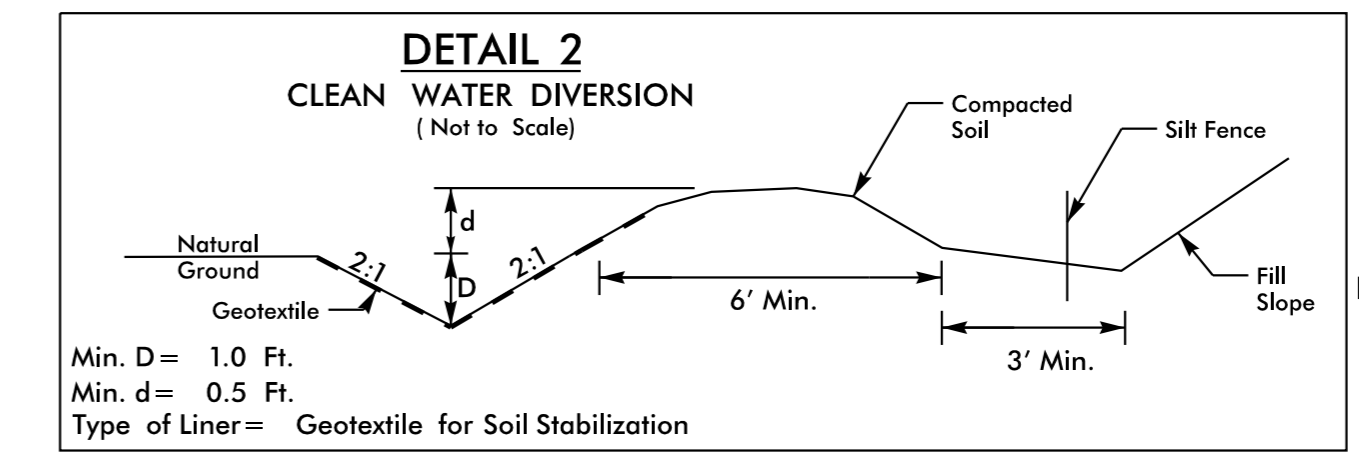
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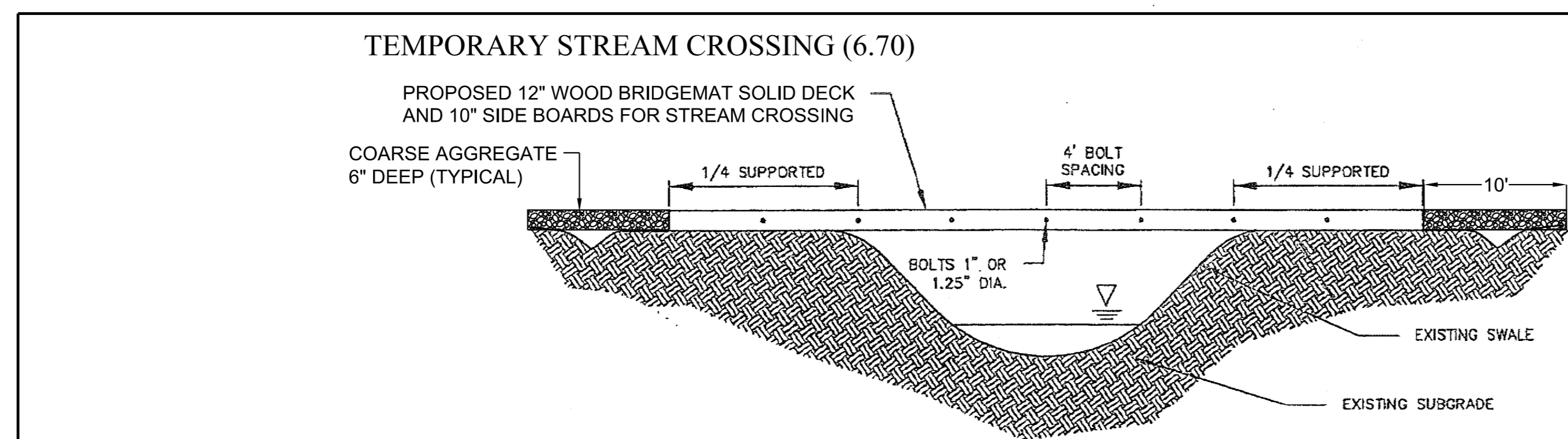
PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-36
RW SHEET NO.	



STA. 57+85 -L-
STA. 76+80 -L-
STA. 112+10 -L-
STA. 22+95 -Y7-
STA. 116+05 -L-



FROM STA. 56+00 TO STA. 57+85 -L- (RT)
FROM STA. 57+85 TO STA. 60+50 -L- (RT)
FROM STA. 61+00 TO STA. 65+85 -L- (RT)
FROM STA. 65+85 TO STA. 68+00 -L- (RT)
FROM STA. 101+65 TO STA. 103+50 -L- (LT)
FROM STA. 113+00 -L- (LT) TO STA. 23+00 -Y3- (RT)
FROM STA. 118+00 TO STA. 121+90 -L- (LT)



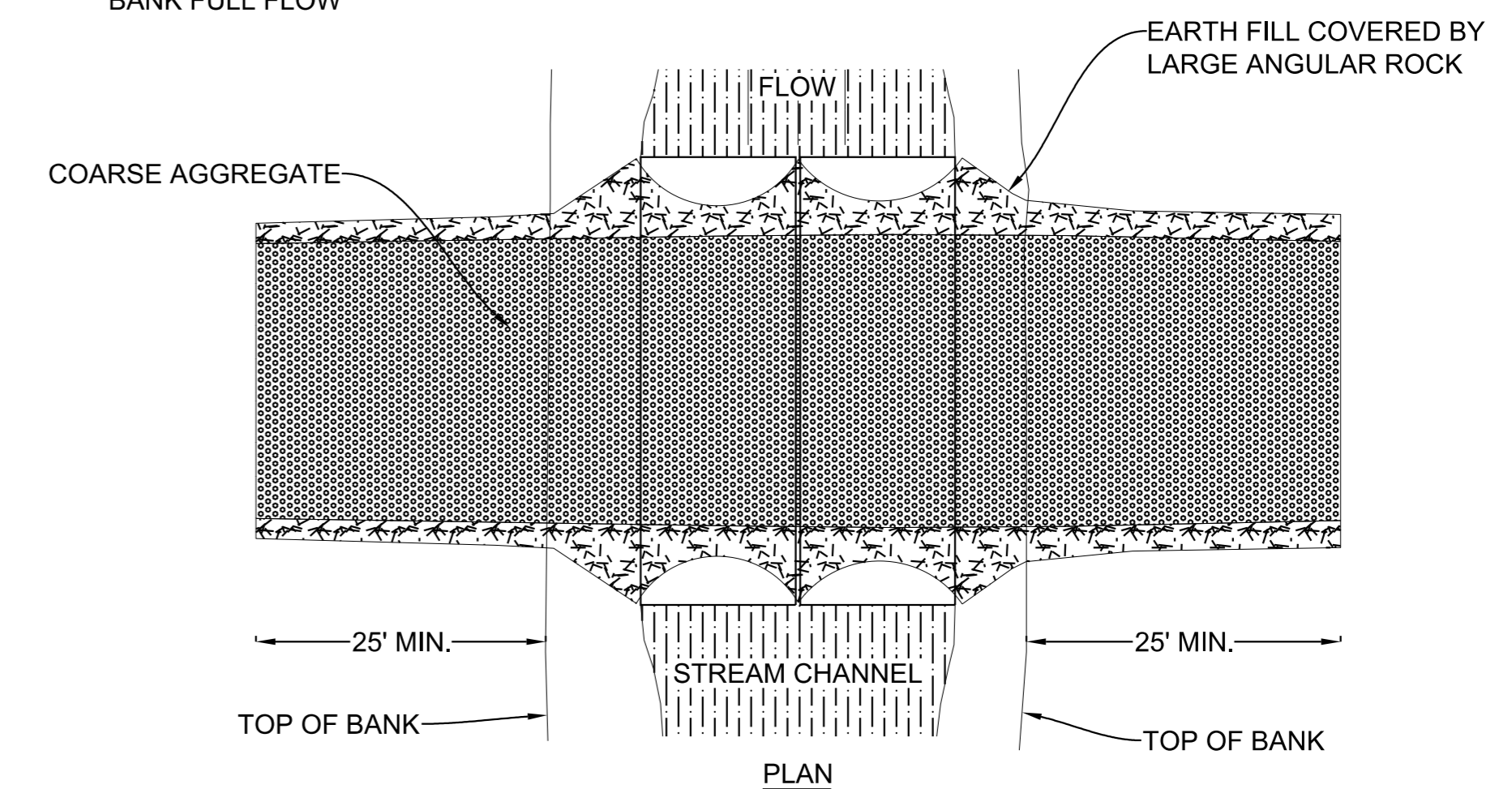
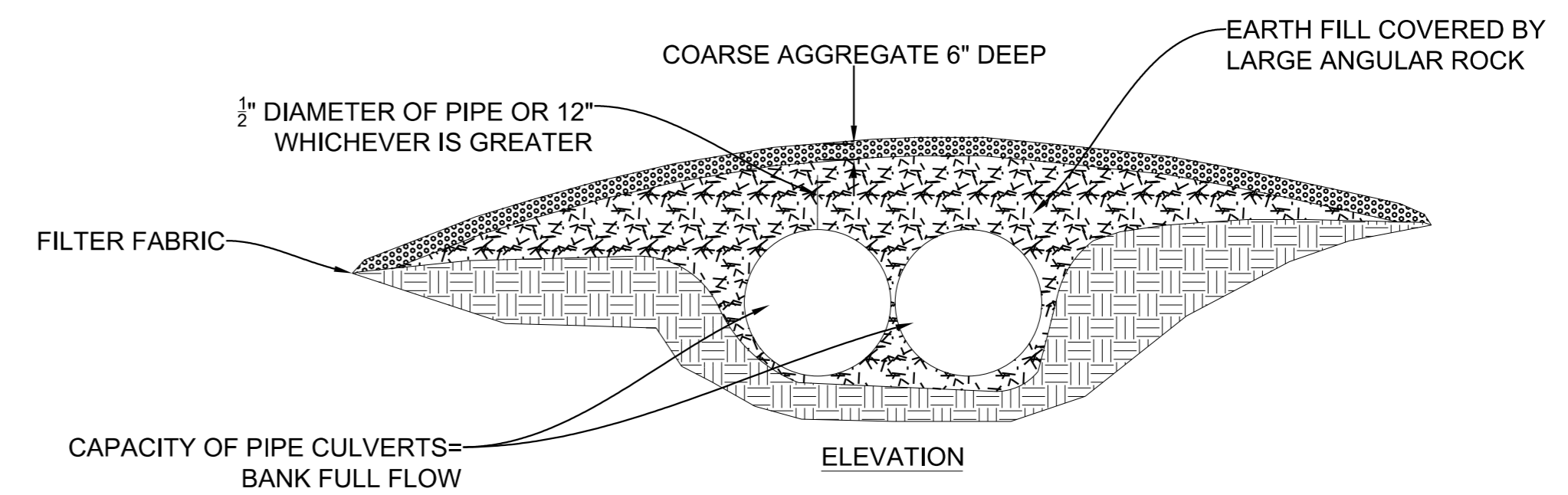
ALTERNATE TEMPORARY STREAM CROSSING (BRIDGEMAT)
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. Keep clearing and excavation of the stream banks and bed and approach sections to a minimum.
2. Divert all surface water from the construction site onto undisturbed areas adjoining the stream.
3. Keep stream crossing at right angles to the stream flow.
4. Align road approaches with the center line of the crossing for a minimum distance of 30 feet. Raise bridge abutments and culvert fills a minimum of 1 foot above the adjoining approach sections to prevent erosion from surface runoff and to allow flood flows to pass around the structure.
5. Stabilize all disturbed areas subject to flowing water, including planned overflow areas, with riprap or other suitable means if design velocity exceeds the allowable for the in-place soil.
6. Ensure that bypass channels necessary to dewater the crossing site are stable before diverting the stream. Upon completion of the crossing, fill, compact, and stabilize the bypass channel appropriately.
7. Remove temporary stream crossings immediately when they are no longer needed. Restore the stream channel to its original cross-section, and smooth and appropriately stabilize all disturbed areas.
8. Any in-stream control measures must be removed upon stabilization of the area.

MAINTENANCE

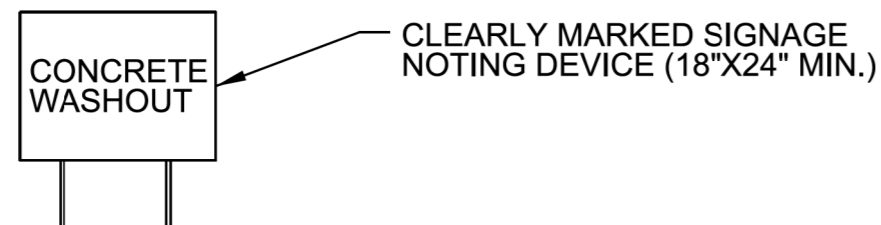
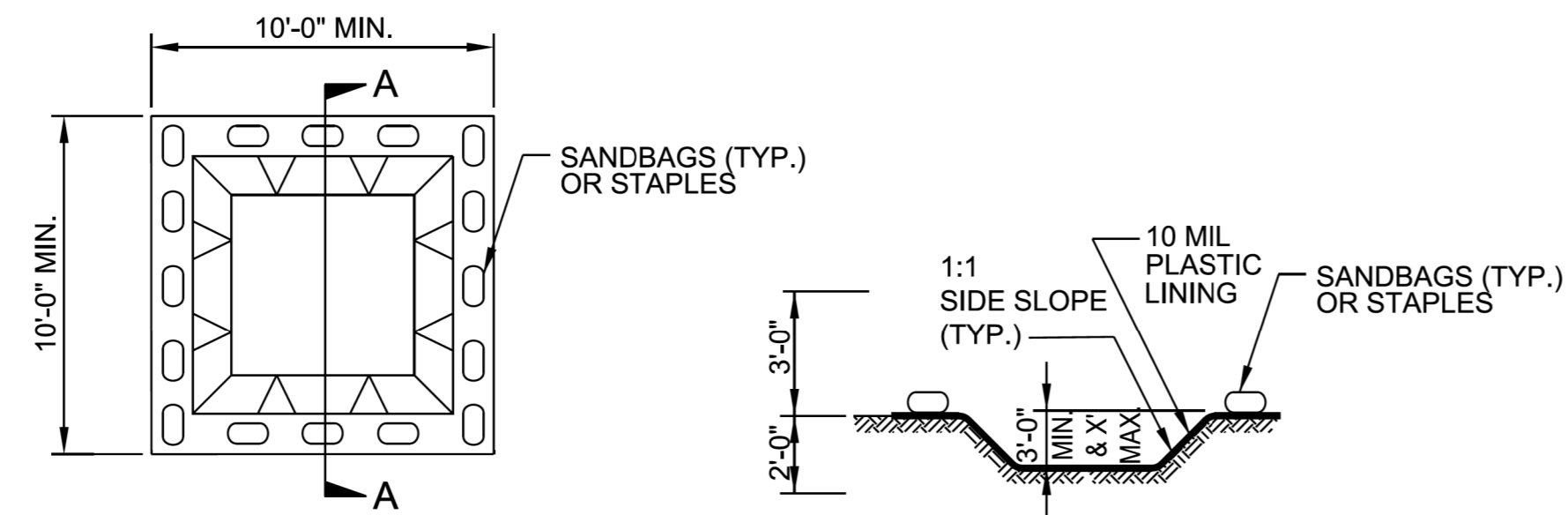
Inspect temporary stream crossings after runoff-producing rains to check for blockage in channel, erosion of abutments, channel scour, riprap displacement, or piping. Make all repairs immediately to prevent further damage to the installation.



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WITH LINER, NO GRAVEL APPROACH

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



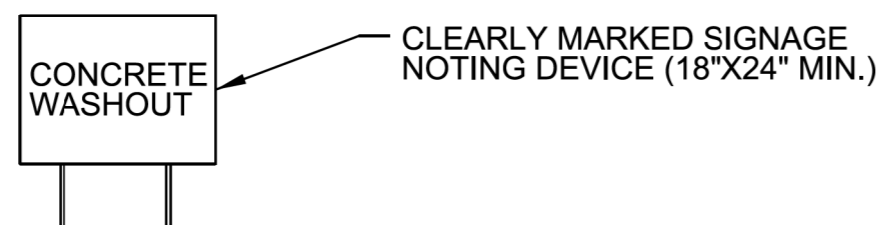
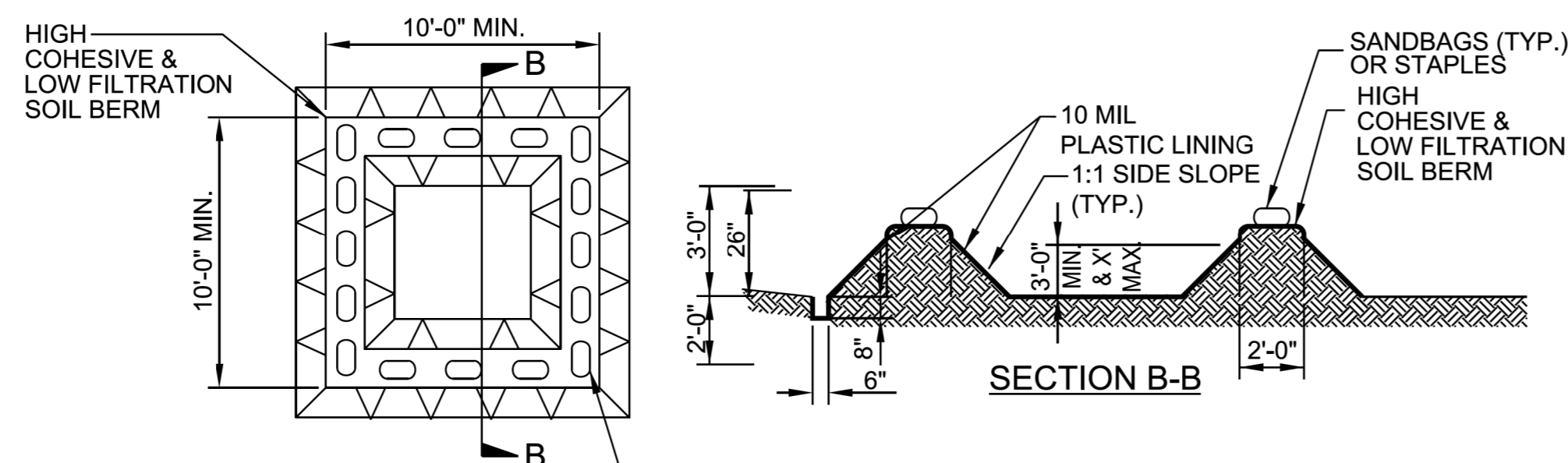
PLAN

BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE

SECTION A-A

NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



PLAN

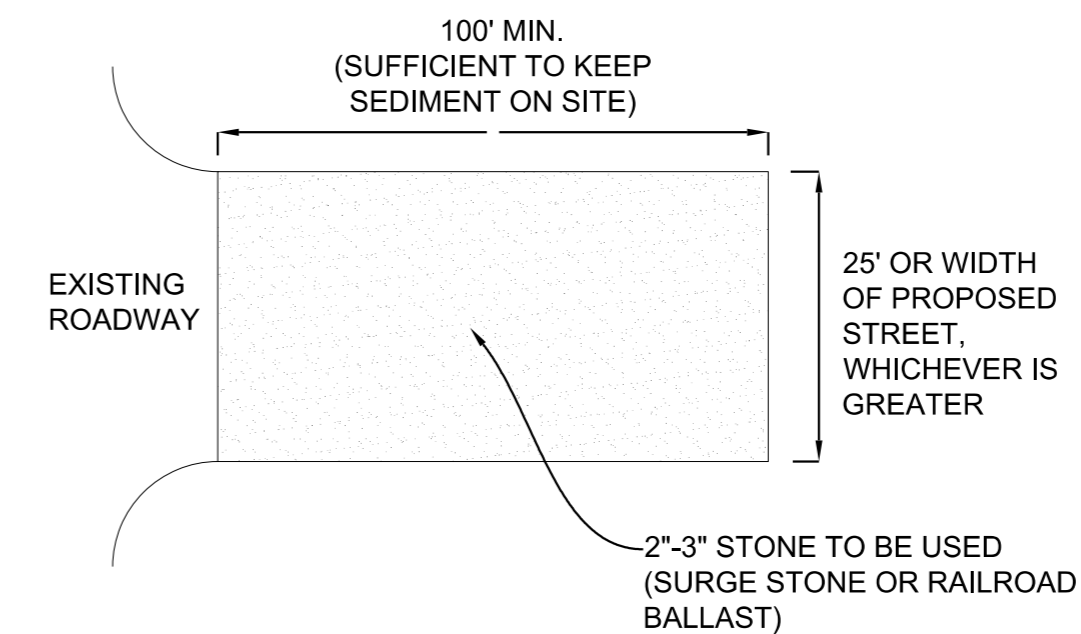
ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

NOTES:

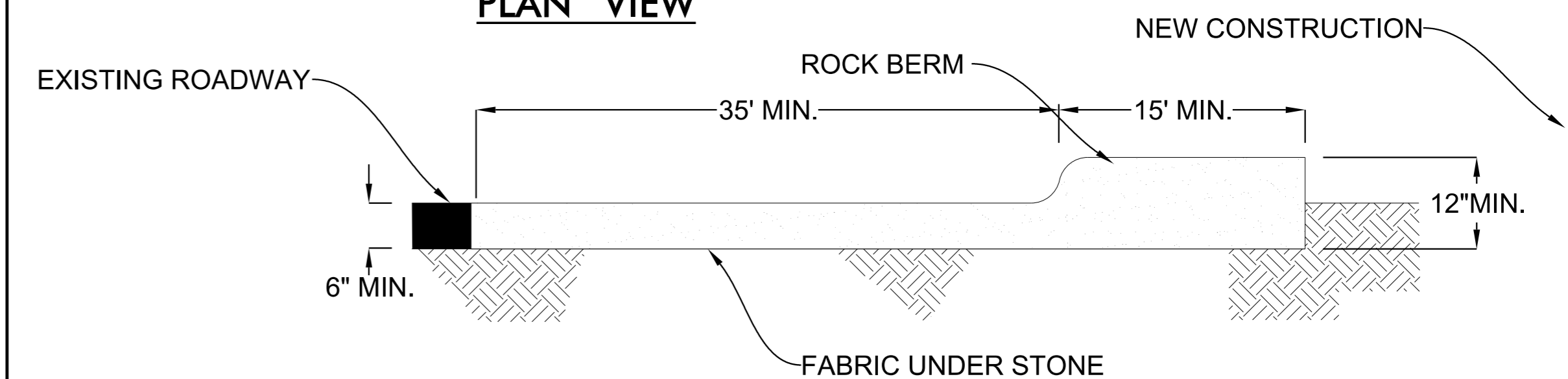
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (6.06)



PLAN VIEW



CROSS SECTION

NOTES:

PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.

CONSTRUCTION SPECIFICATIONS

1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the stone to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics because they improve stability of the foundation in locations subject to seepage or high water table.
5. Use 2-3" coarse aggregate base course or larger.
6. Payment shall be made at the contract unit price per ton "Incidental Stone Base."

MAINTENANCE

Maintain the stone pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials spilled, washed, or tracked onto public roadways.

Installation: Avoid curves in public roads and steep slopes. Remove all vegetation and other objectionable material from the foundation area. Grade and crown foundation for positive drainage.

If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Kimley»Horn

P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO. SHEET NO.

U-5828 EC-40

R/W SHEET NO.

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.