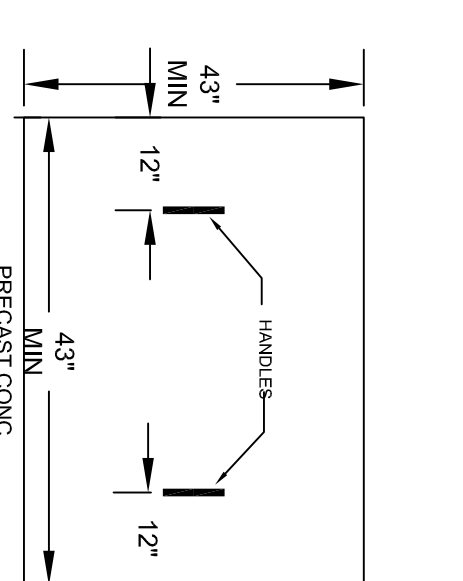
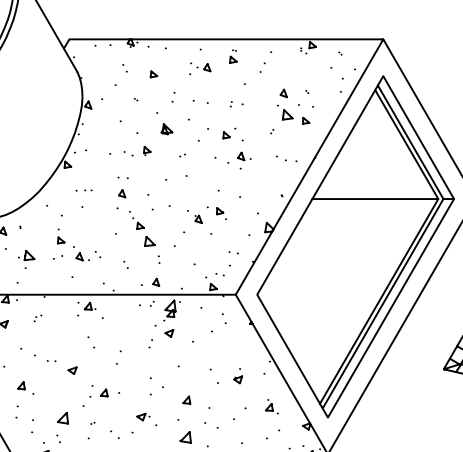
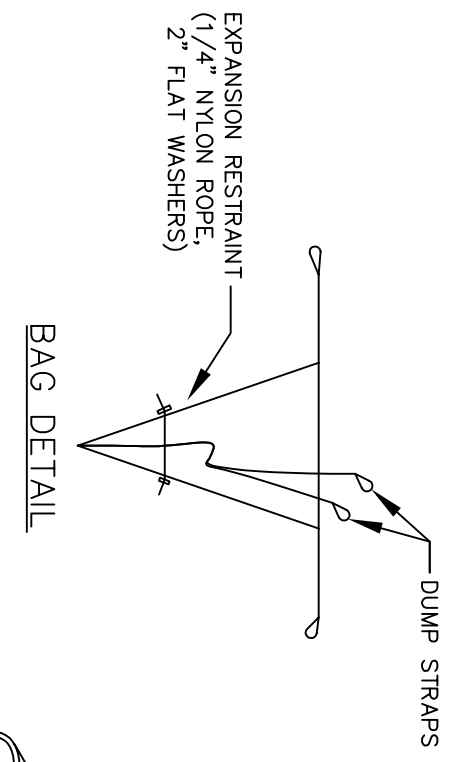


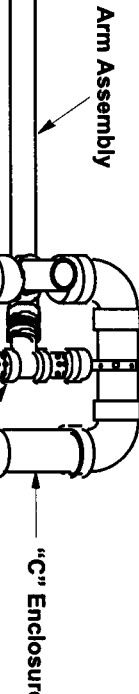
INSPECT TEMPORARY DIMENSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL. TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

TEMPORARY DIVERSION BERMDITCH

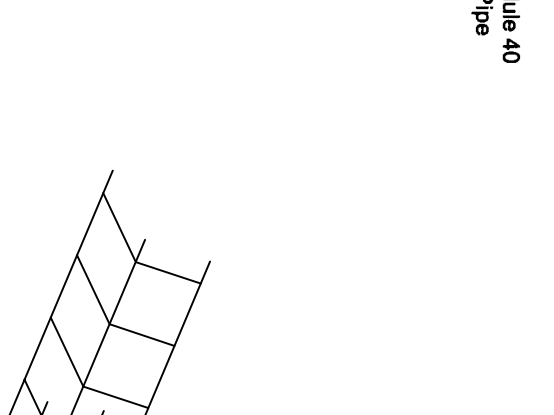
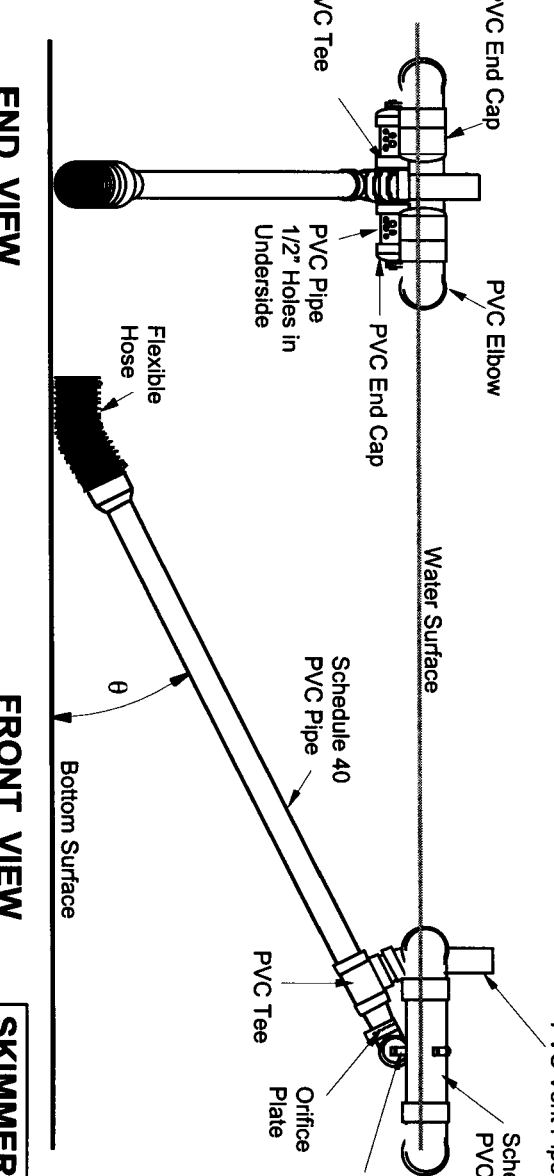


TEMPORARY SILT BAG INLET PROTECTION

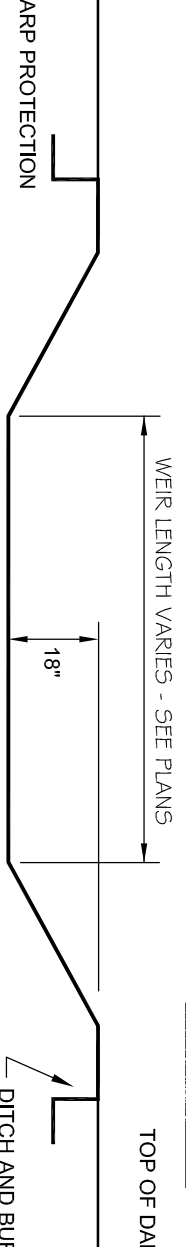
NOTE: 1. USE FOR DRAINAGE AREAS NOT EXCEEDING 10 (TEN) ACRES. 2. EACH BERM SHALL BE STABILIZED W/ SEEDING. MAINTENANCE: INSPECT TEMPORARY SEGMENT TAPS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REDUCE THE CONTAMINATED PART OF THE GRASSY FRACK. CHECK THE STRUCTURE FOR DAMAGE FROM REGION OR PAVING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM GRADE. ANY TRAP DERIVED FROM THE SPILLWAY MUST BE REPAIRED IMMEDIATELY. PROVIDE A MINIMUM OF 3 BARRELS (ENVY) OF DISTRIBUTED BARRELS MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.



PERSPECTIVE VIEW



SKIMMER
DESIGNED BY W. K. A. L.
DATE: APRIL 17, 1991



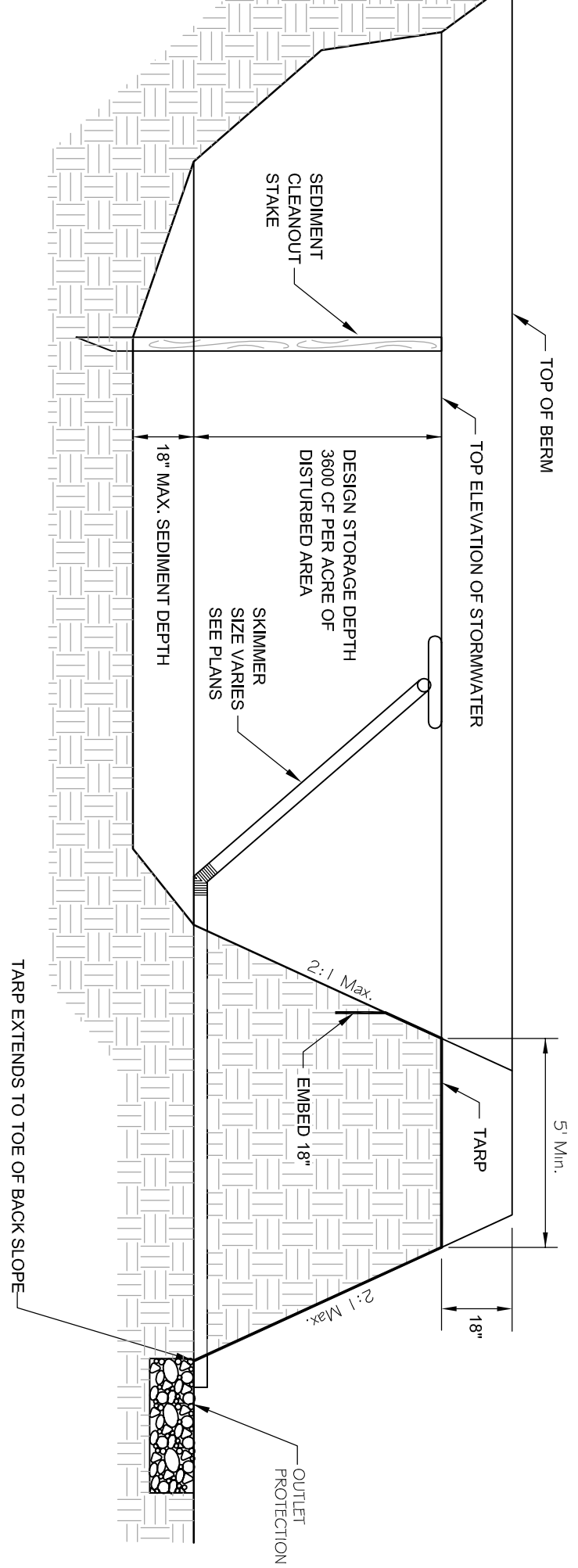
- NOTES:
1. USE FOR DRAINAGE AREAS NOT EXCEEDING 10 (TEN) ACRES.
 2. EACH BERM SHALL BE STABILIZED W/ SEEDING.

MAINTENANCE: INSPECT TEMPORARY SEGMENT TAPS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REDUCE THE CONTAMINATED PART OF THE GRASSY FRACK. CHECK THE STRUCTURE FOR DAMAGE FROM REGION OR PAVING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM GRADE. ANY TRAP DERIVED FROM THE SPILLWAY MUST BE REPAIRED IMMEDIATELY. PROVIDE A MINIMUM OF 3 BARRELS (ENVY) OF DISTRIBUTED BARRELS MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.

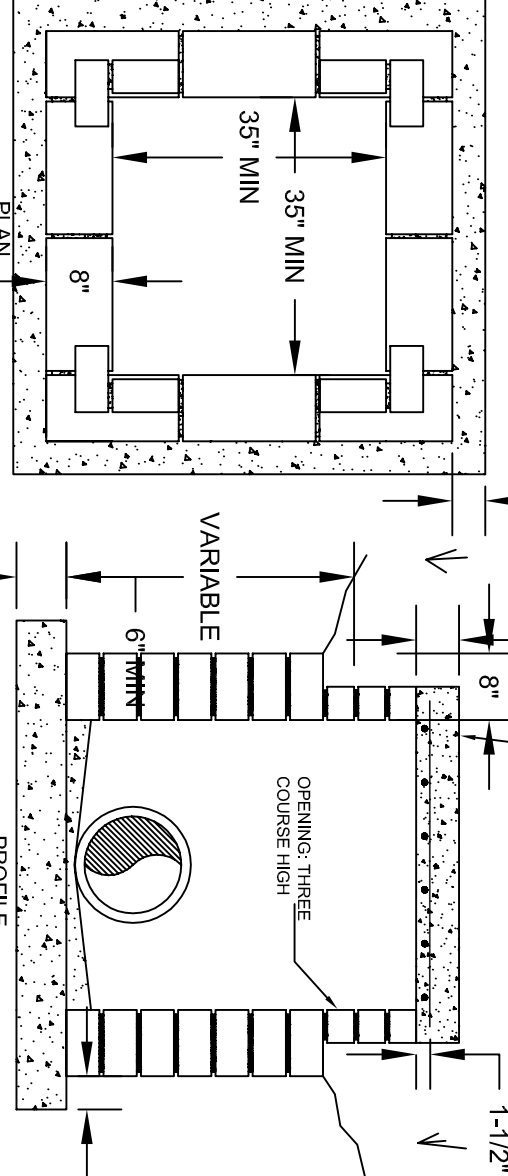
STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE BASIN IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

THE TARP USED TO PROTECT THE USER SHALL BE THE MINIMUM SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TAPS ARE TO BE USED, THEN TAPS SHALL BE LAPPED AT LEAST 12" THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 18 MIL. HEAVY DUTY SILVER TARPULINS FOR UV RESISTANCE.

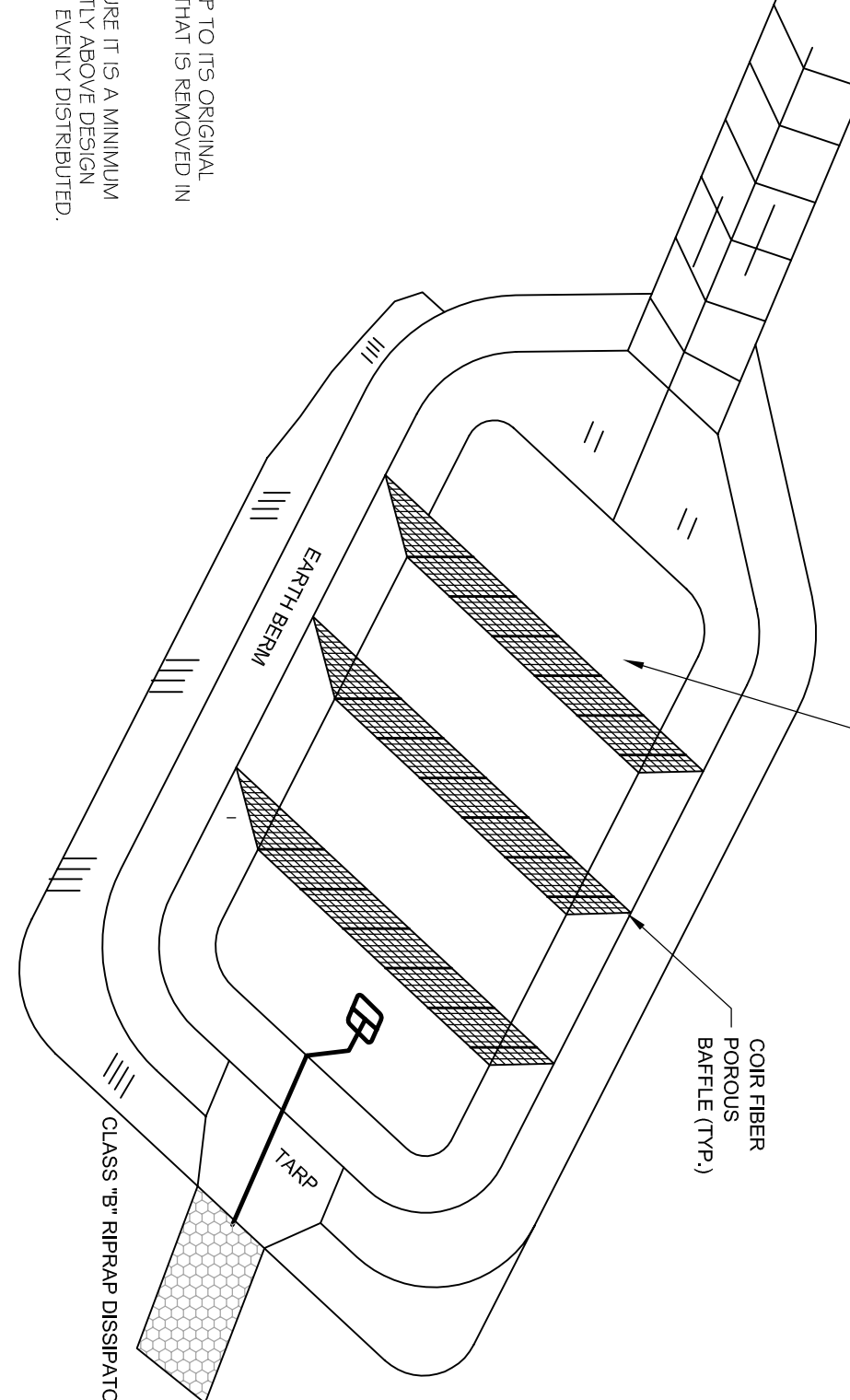
SKIMMER DETAIL



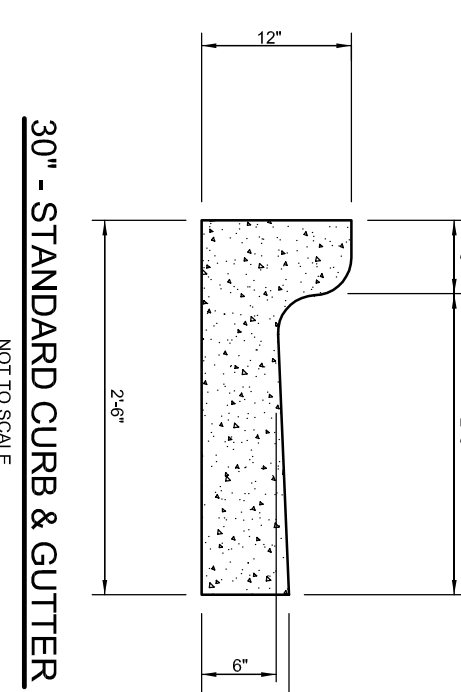
TEMPORARY SKIMMER SEDIMENT BASIN



DROP INLET W/ CONCRETE SLAB

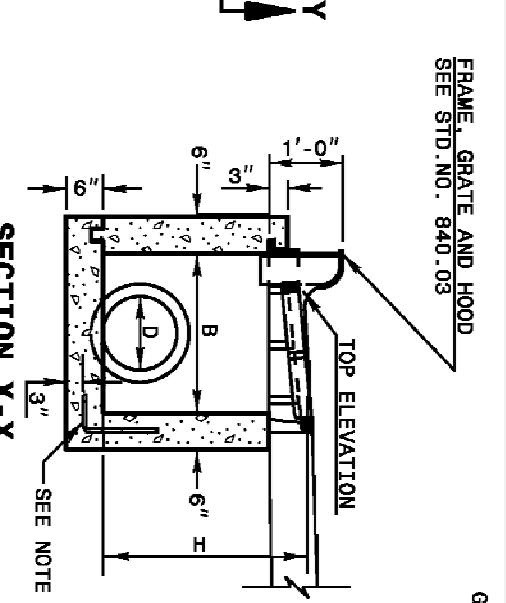
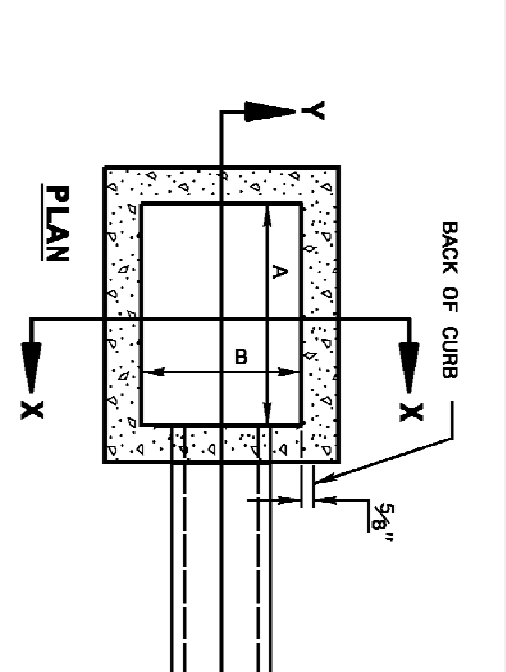


SEDIMENT PIT
CLASS B+ BIRAP DISPERSATOR



30" - STANDARD CURB & GUTTER

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RALEIGH, N.C.

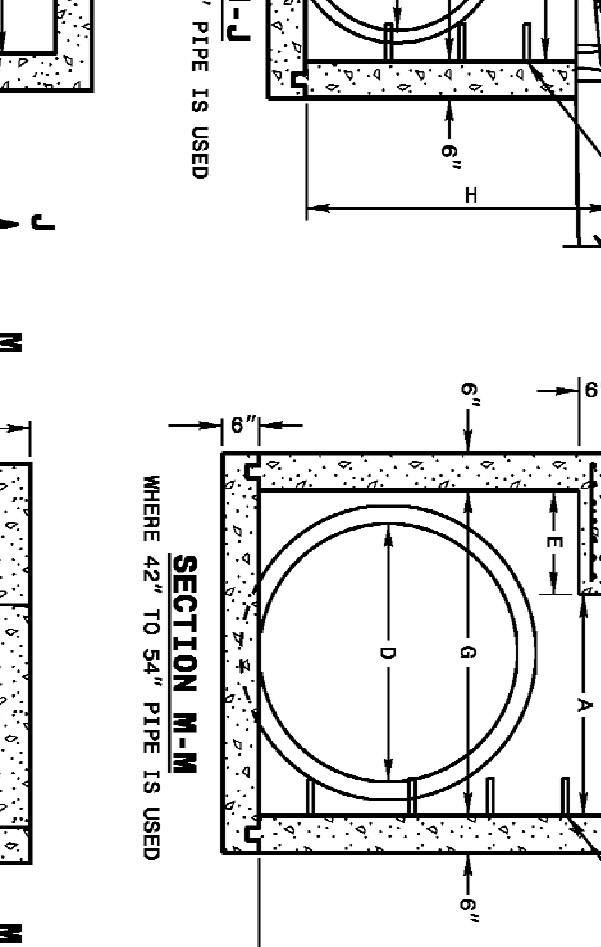
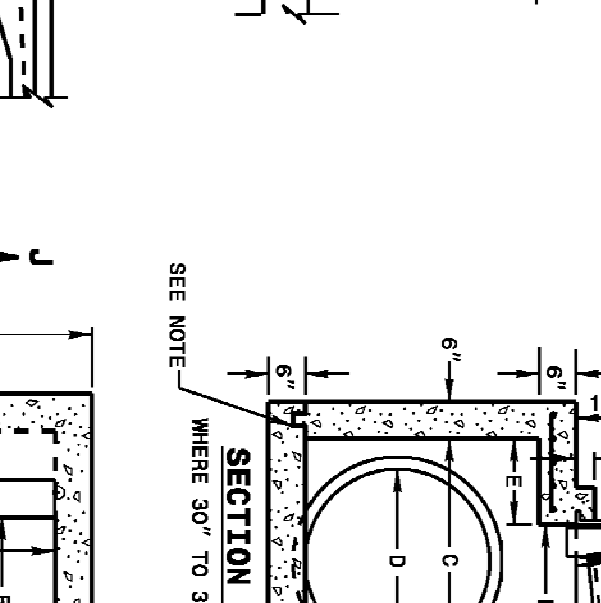
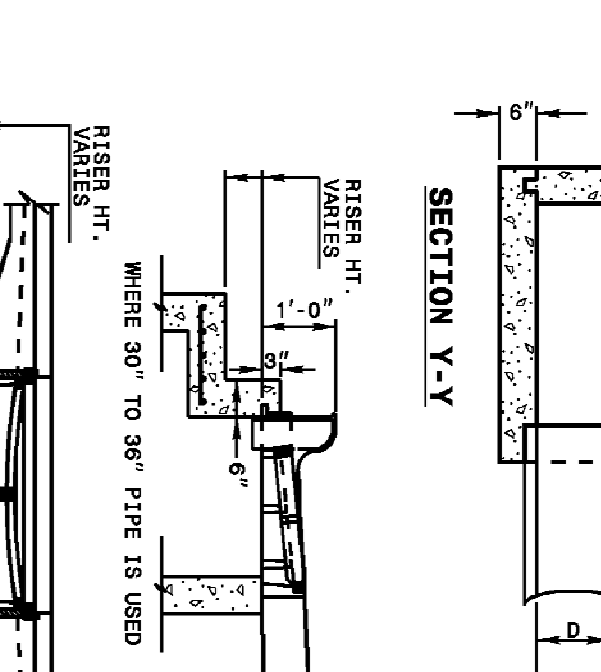


GENERAL NOTES:

- USE CLASS "B" CONCRETE THROUGHOUT.
- PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.06.
- OPTIONAL CONSTRUCTION: DOMULITHIC POOL, 2" KEYWAY, ON 1/4" BARS DOMES AT BOTTOM OF BASIN.
- IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
- FOR 8'-0" IN HEIGHT OR LESS USE 8" WALLS AND BOTTOM SLAB. OVER 8'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
- CONSTRUCT WITH PIPE CROWNS MATCHING.
- CHAMFER ALL EXPOSED CORNERS 1".

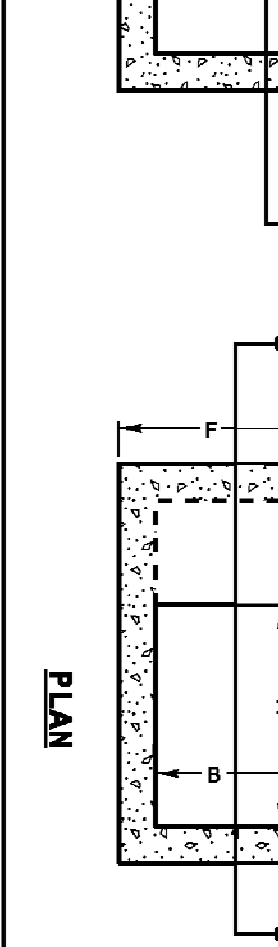
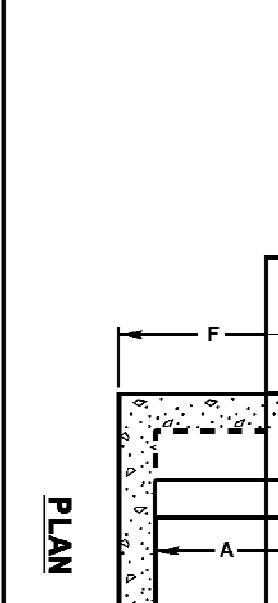
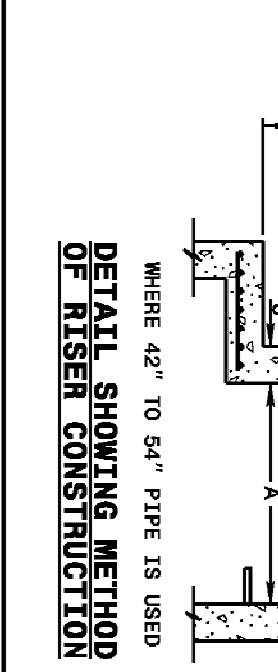
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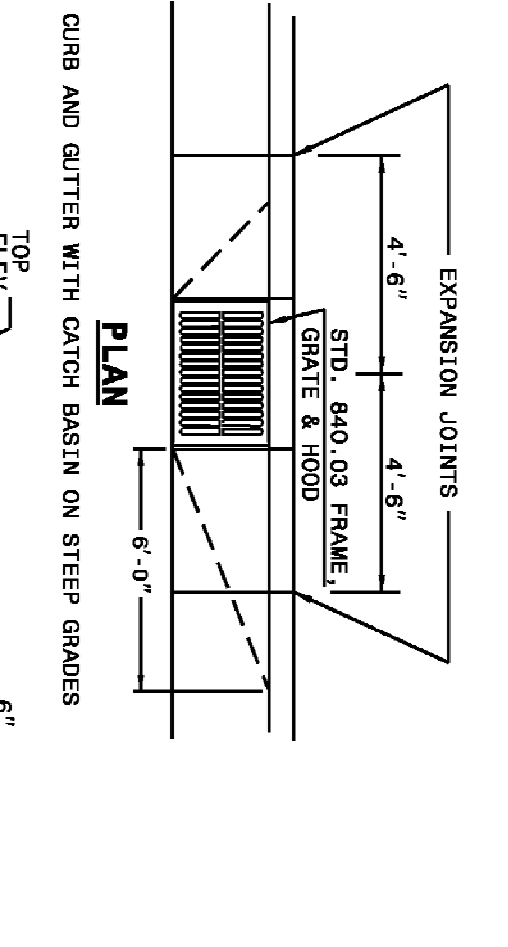
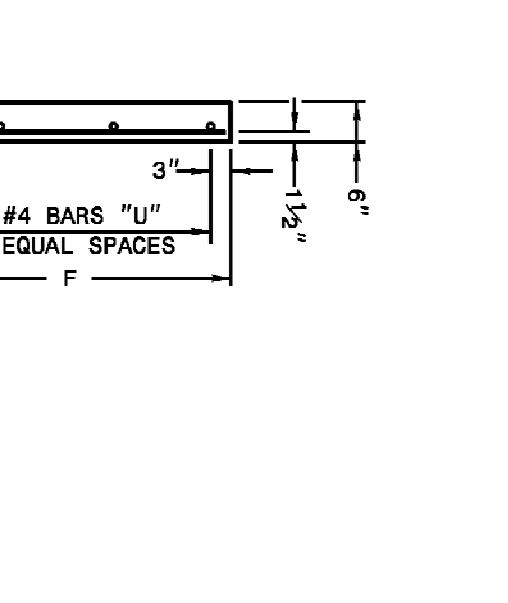
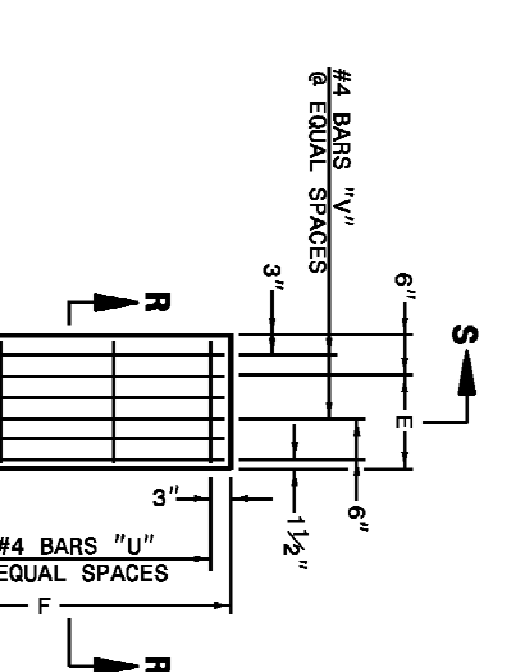
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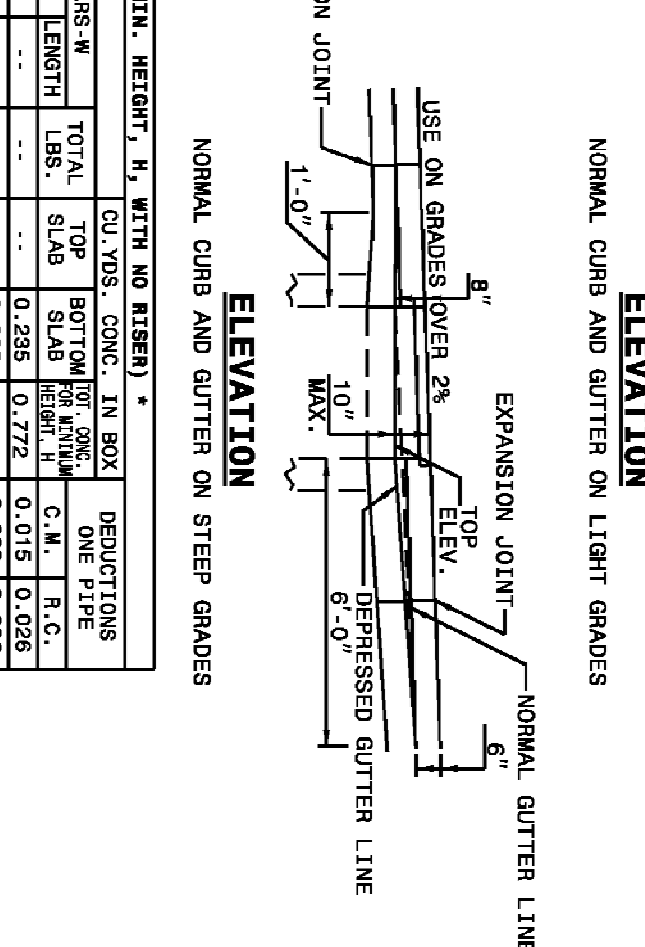
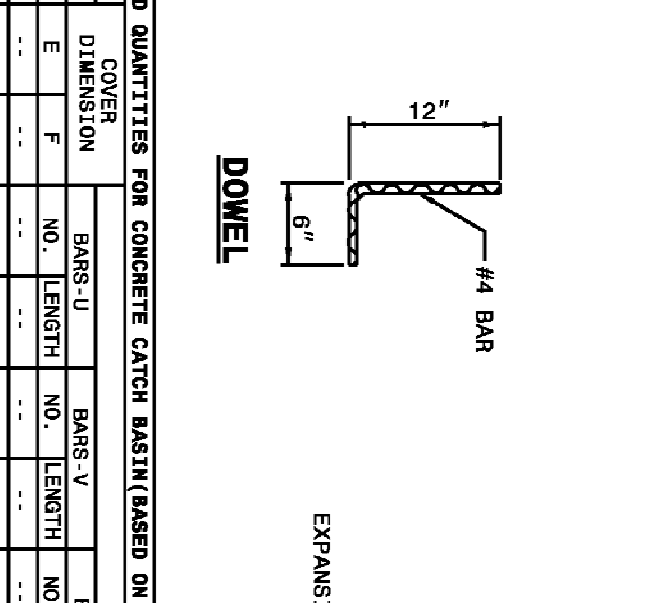
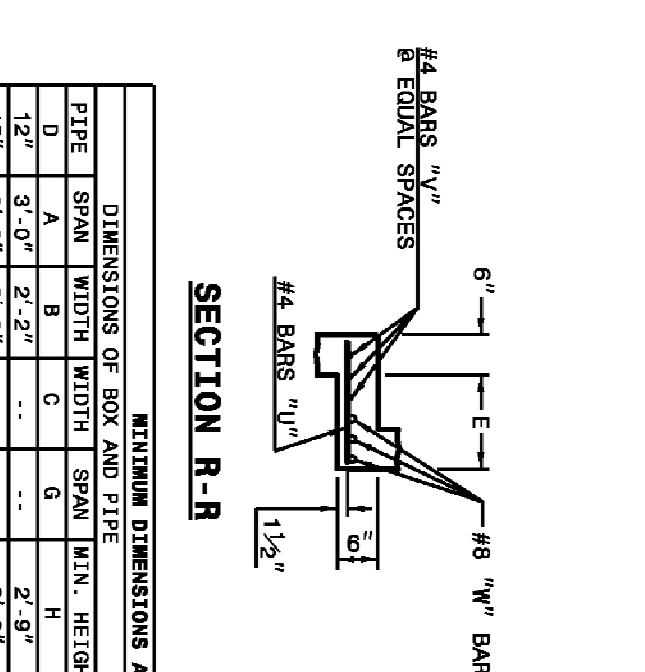
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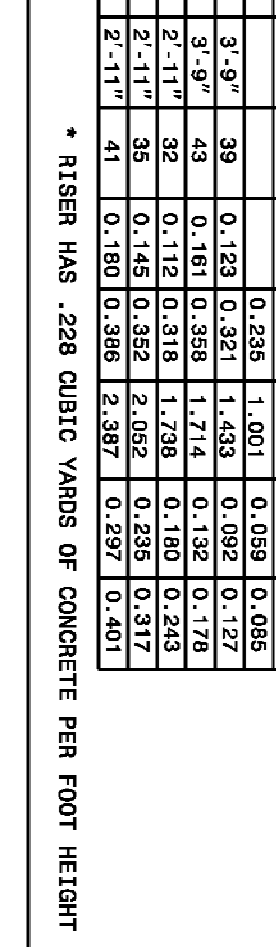
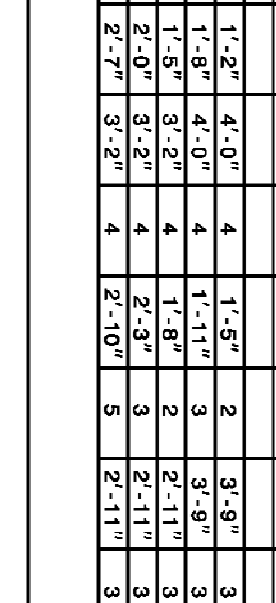
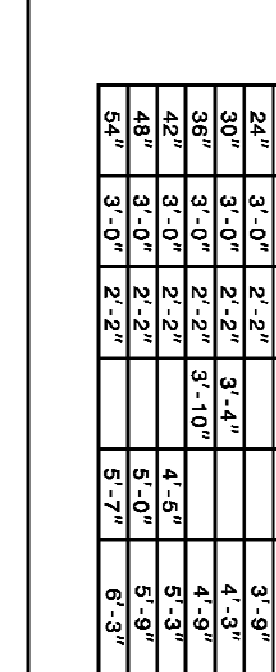
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MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT "H" WITH NO RISERS) *									
TYPE	SPAN	WIDTH	MIN. HEIGHT	COVER		BASE - U		BASE - V	
				NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
15'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
18'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
21'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
24'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
27'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
30'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
33'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
36'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
39'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
42'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
45'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
48'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
51'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"
54'	3'-0"	2'-2"	2'-2"	4	2'-4"	4	2'-4"	4	2'-4"

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

NO.		REVISIONS	DATE
1		REVISED PER CHATHAM CO. EROSION CONTROL COMMENTS	11/06/15

307 GLENWOOD AVE 220
RALEIGH, NC 27602
PHONE: 919-367-8700
FAX: 919-322-0032

www.cegroupinc.com
License # C-1739

WESTFALL SUBDIVISION PH 3B & 4B
CONSTRUCTION PLANS
EROSION CONTROL DETAILS
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

WESTFALL SUBDIVISION PH 3B & 4B
CONSTRUCTION PLANS
EROSION CONTROL DETAILS
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

Date: SEPTEMBER 28, 2015
Scale: -
Drawn: ACS
Checked: ALF
Project No: 800-12
Computer Draw Name: 800-12 Phase 3B - CC Chatham.dwg
Sheet No: 21 of -

SYM.	QUAN.	BOTANICAL NAME	COMMON NAME	HT.	ROOT	REMARKS
WETLAND PLANTINGS						
SA	33	Hibiscus coccineus Aubur	White Rose Mallow	-	4' cont.	3 O.C. Shallow Land
CF	33	Lobelia cardinalis	Cardinal Flower	-	4' cont.	3 O.C. Shallow Land
NP	34	Suaeda frutescens	Narrow Flaminggrass	-	4' cont.	3 O.C. Shallow Land
DP	60	Sagittaria latifolia	Duck Potato	-	4' cont.	3 O.C. Shallow Water
LT	62	Saururus cernuus	Lizard Tail	-	4' cont.	3 O.C. Shallow Water
FW	62	Pontederica cordata	Pickersweed	-	4' cont.	3 O.C. Shallow Water

LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIAL FROM LOCAL SOURCE TO ENSURE SURVIVABILITY. CONTRACTOR TO PROVIDE SOURCE OF PLANT MATERIAL AND LOCATION FOR APPROVAL. PRIOR TO INSTALLATION OF MATERIAL.

LOCAL WEED AND NURSERY:
MELBOM MARSH FARM NURSERY - SILVER CITY, NC

A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR PLANT SURVIVAL AND REPLACEMENT. AT THE END OF THE FIRST YEAR AND AGAIN AT THE END OF THE SECOND YEAR, PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-633-4249. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3:0 OF COVER AS MEASURED FROM FINISH GRADE AT THE LOCATION OF WHERE INSTALLED.
5. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
6. THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9724 MAP NUMBER 3710974001, DATED FEBRUARY 2, 2007.
7. AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
8. EXISTING CHATHAM TOPOGRAPHIC INFORMATION TAKEN FROM NCDOT SURVEY FOR CHATHAM COUNTY, ROADWAY CORRIDOR TOPOGRAPHIC INFORMATION TAKEN FROM SURVEYED INFORMATION BY CE GROUP, INC.
9. ALL STREETS ARE PRIVATE.


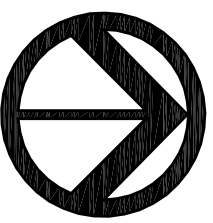



Figure 1 is a map of the study area. It shows a coastline on the left side. A black rectangle indicates the location of the study site. The map includes depth contours for 20' and 40' depths. A scale bar at the bottom indicates that 1 inch equals 20 feet.

SCALE: 1" = 20'



CE GROUP

Date:	SEPTEMBER 28, 2015
Scale:	1" = 20'
Drawn:	ACS
Checked:	AJF
Project No.	800-12
Computer Dwg. Name	800-12 Phase 4B - 16 Storm Pond Plan

23

REVISIONS

DATE _____

PLANT LIST

SYM.	QUAN.	BOTANICAL NAME	COMMON NAME	HT.	ROOT	REMARKS
WETLAND PLANTINGS						
SA	49	Hibiscus coccineus 'Alba'	White Rose Mallow	-	4' cont.	3 O.C. Shallow Land
CF	59	Lobelia cardinalis	Cardinal Flower	-	4' cont.	3 O.C. Shallow Land
NP	59	Sagittaria latifolia	Narrow Plumgrass	-	4' cont.	3 O.C. Shallow Land
DP	98	Sagittaria latifolia	Duck Potato	-	4' cont.	3 O.C. Shallow Water
LT	96	Saururus cernuus	Leard Tail	-	4' cont.	3 O.C. Shallow Water
PW	90	Potamogeton nodosus	Potamogeton	-	4' cont.	3 O.C. Shallow Water

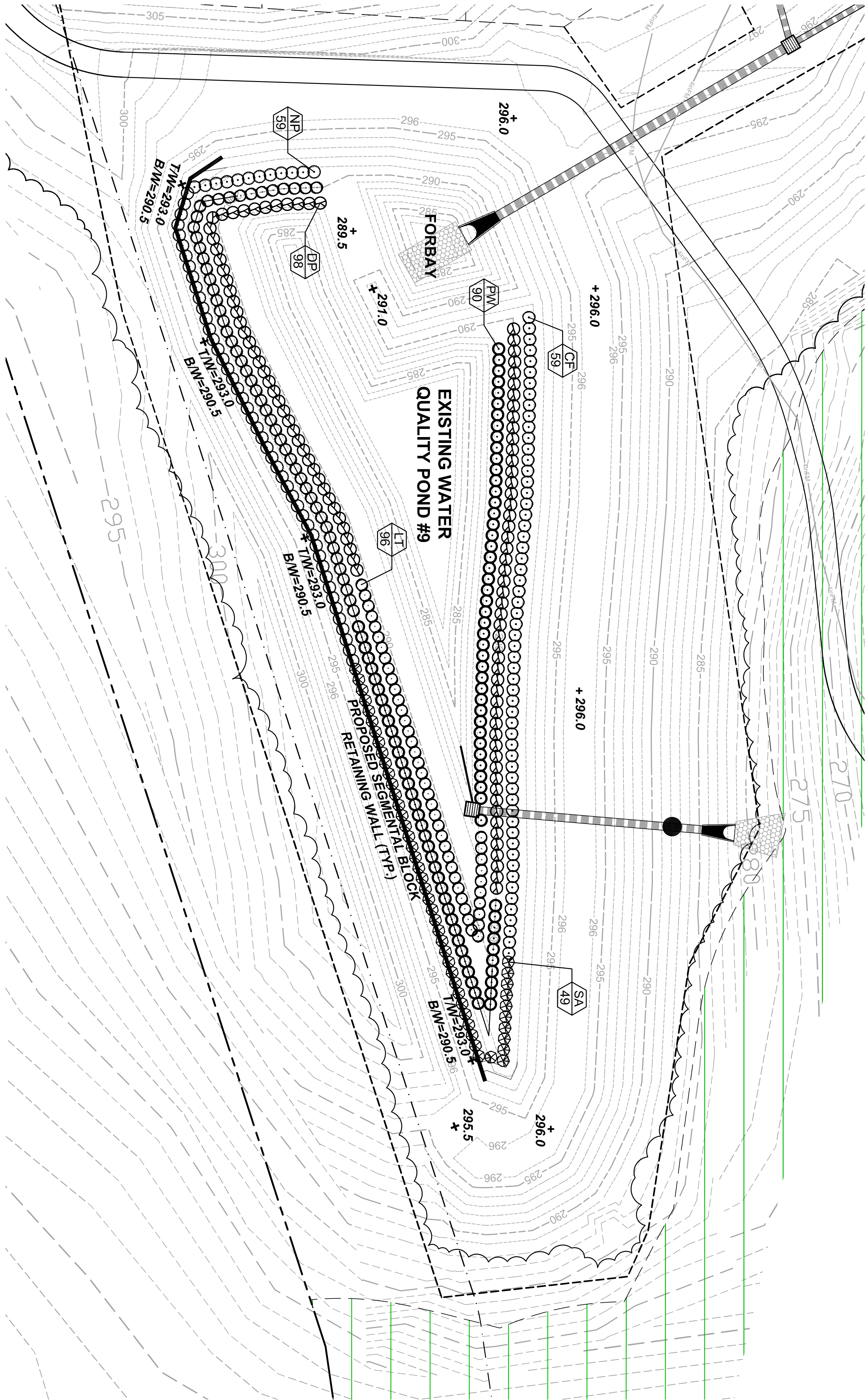
PLANTING NOTES:

LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIAL FROM LOCAL SOURCE TO ENSURE SURVIVABILITY. CONTRACTOR TO PROVIDE PROPER PLANTING MATERIAL AND LOCATION FOR APPROVAL PRIOR TO INSTALLATION OF MATERIAL.

LOCAL WETLAND NURSERY

WETLAND NURSERY - SILER CITY, NC

A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR PLANT SURVIVAL AND REPLACEMENT. AT THE END OF THE FIRST YEAR AND AGAIN AT THE END OF THE SECOND YEAR ALL PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.



NO.	REVISIONS	DATE



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FAX: 919-322-0032

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WESTFALL SUBDIVISION PH 3B & 4B

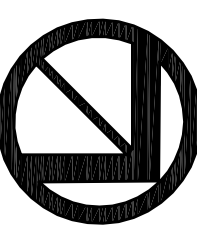
CONSTRUCTION PLANS

WQ POND #9 PLANTING PLAN

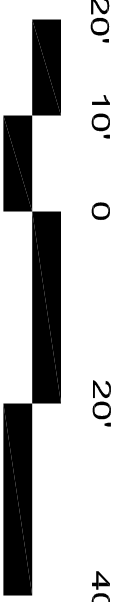
WILLIAMS TOWNSHIP

CHATHAM COUNTY, NORTH CAROLINA

Date:	SEPTEMBER 28, 2015
Scale:	1" = 20'
Drawn:	ACS
Checked:	AJF
Project No:	800-12
Computer Desg. Name:	800-12 Phase 4B - 13 Storm Pond Plan



NORTH



SCALE: 1" = 20'

FINAL DESIGN

NOT RELEASED
FOR CONSTRUCTION