

**TIP PROJECT: R-5215**

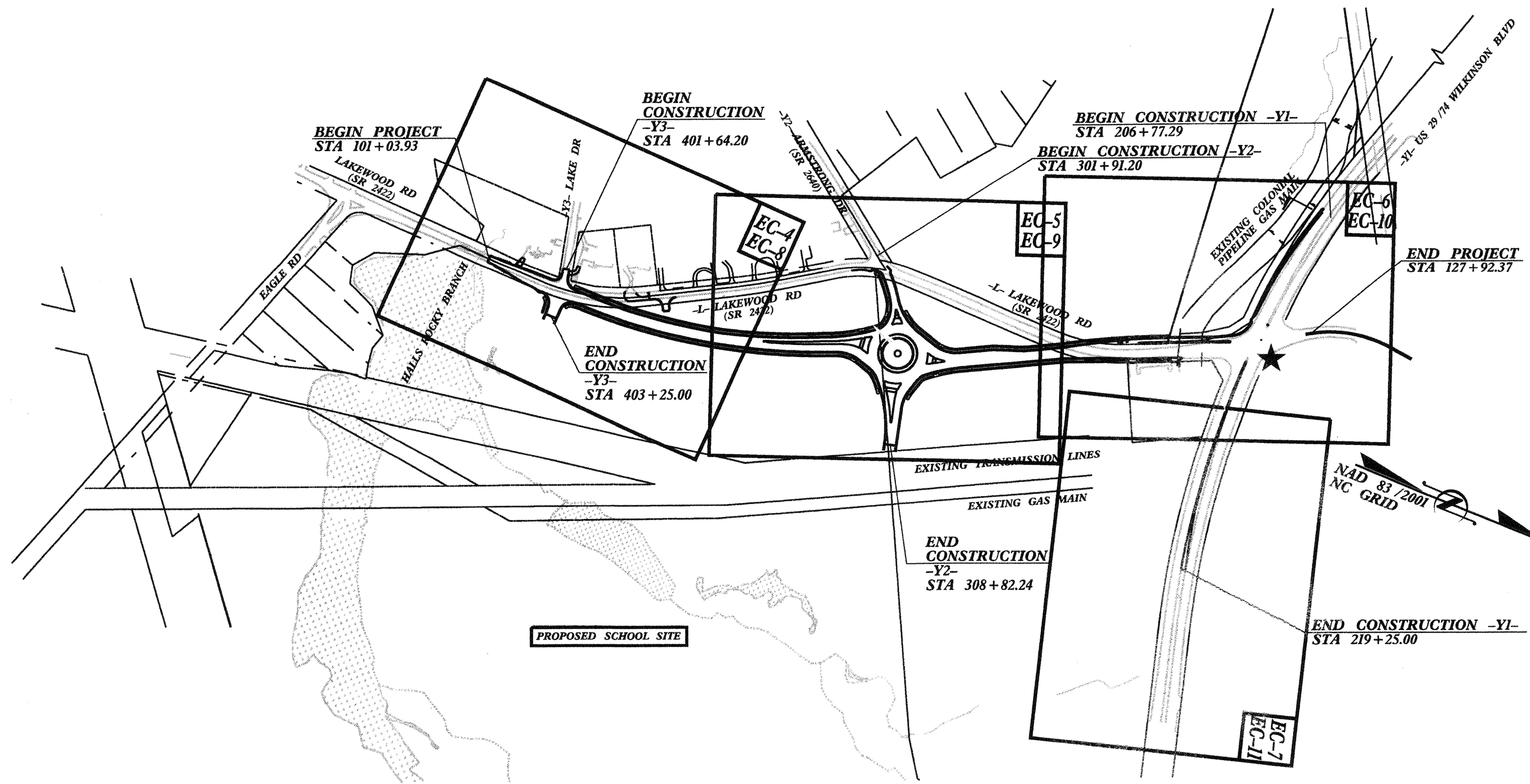
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL  
**GASTON COUNTY**

**LOCATION: REALIGNMENT OF EXISTING LAKEWOOD ROAD FROM US 2974 WILKINSON BOULEVARD TO BRIDGE  
 CROSSING OF HALLS ROCKY BRANCH**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, PAVEMENT MARKINGS AND EROSION CONTROL**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5215	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

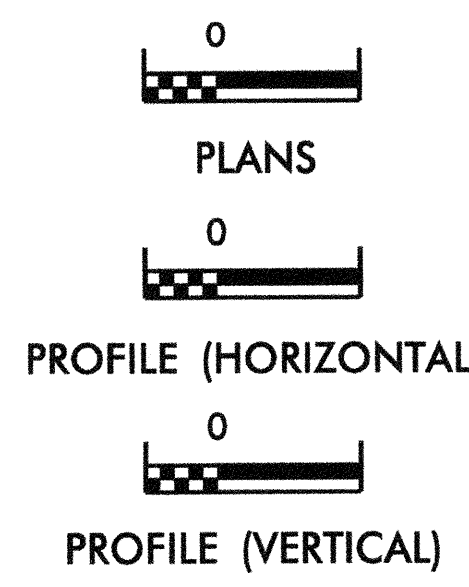
**EROSION AND SEDIMENT CONTROL MEASURES**

Symbol	Description	Std. #
	TEMPORARY DIVERSION DITCH	1630.03
	DRAINAGE AREA	
	SILT FENCE	1605.01
	TEMPORARY SEDIMENT BAFFLES	
	TEMPORARY SLOPE CALL OUT	
	LIMITS OF DISTURBANCE	
	TEMPORARY SLOPE DRAIN	1622.01
	CONSTRUCTION ENTRANCE	1607.01
	RIP RAP APRON	876.02
	FABRIC INSERT INLET PROTECTION	
	STONE INLET PROTECTION	1632.02
	ROCK CHECK DAM	
	TEMPORARY SPOT GRADE	
	FLOW DIRECTION	



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

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

Prepared for NCDOT by:  
  
 Kimley-Horn  
 and Associates, Inc.  
 © 2011 Site: 300, 453 Charlotte Park Drive  
 Charlotte, North Carolina 28217  
 NC LICENSE# F-0102

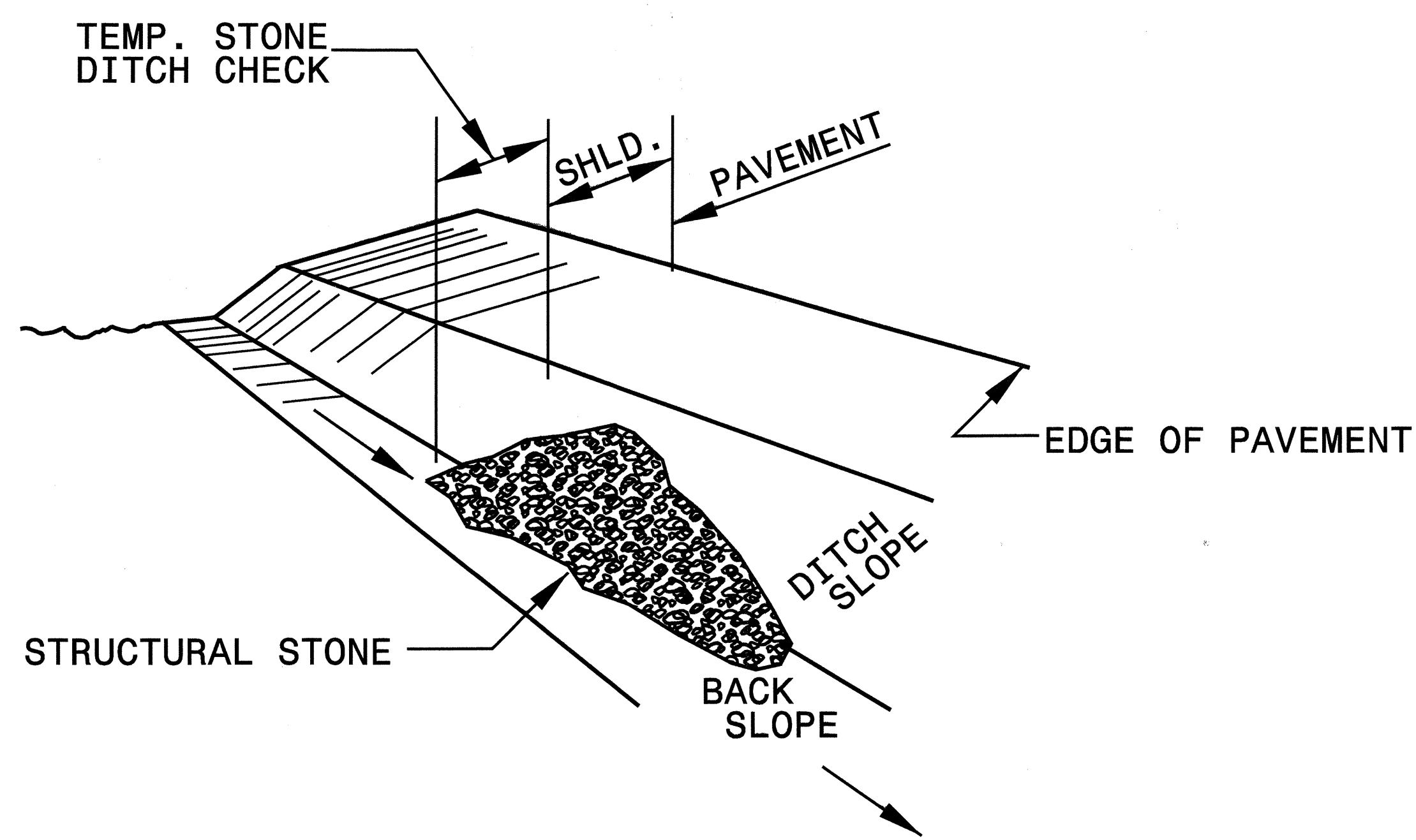
**2006 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 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	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

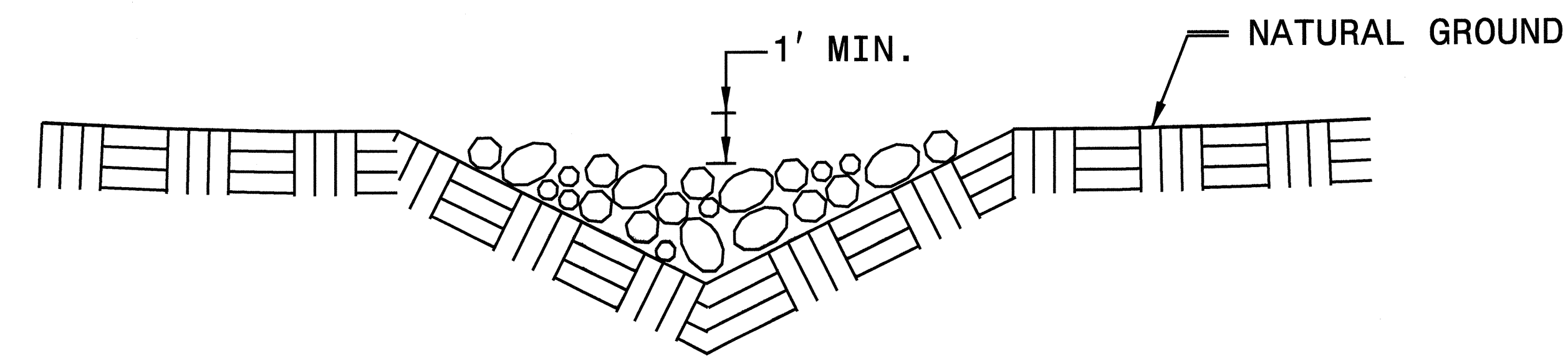


**ISOMETRIC VIEW**

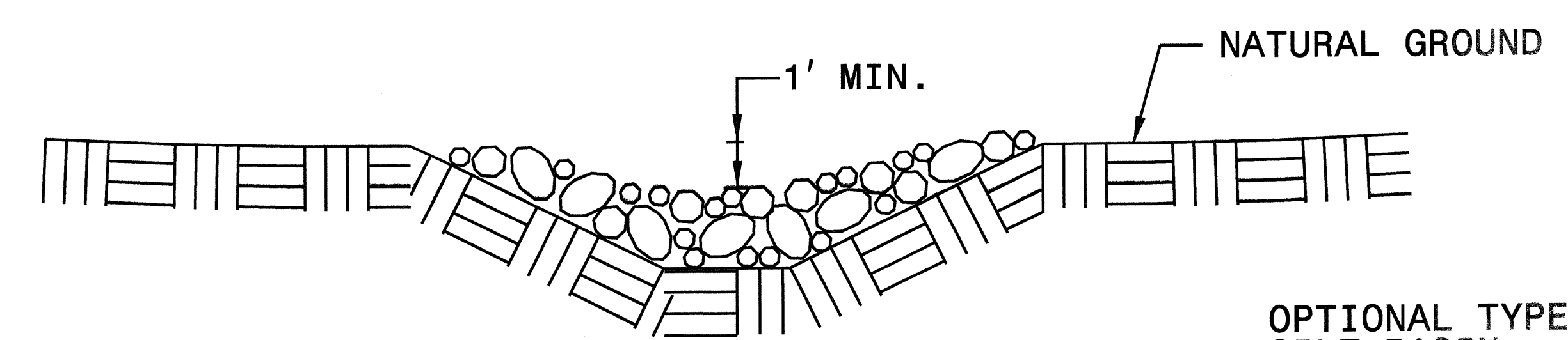
**NOTES:**

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

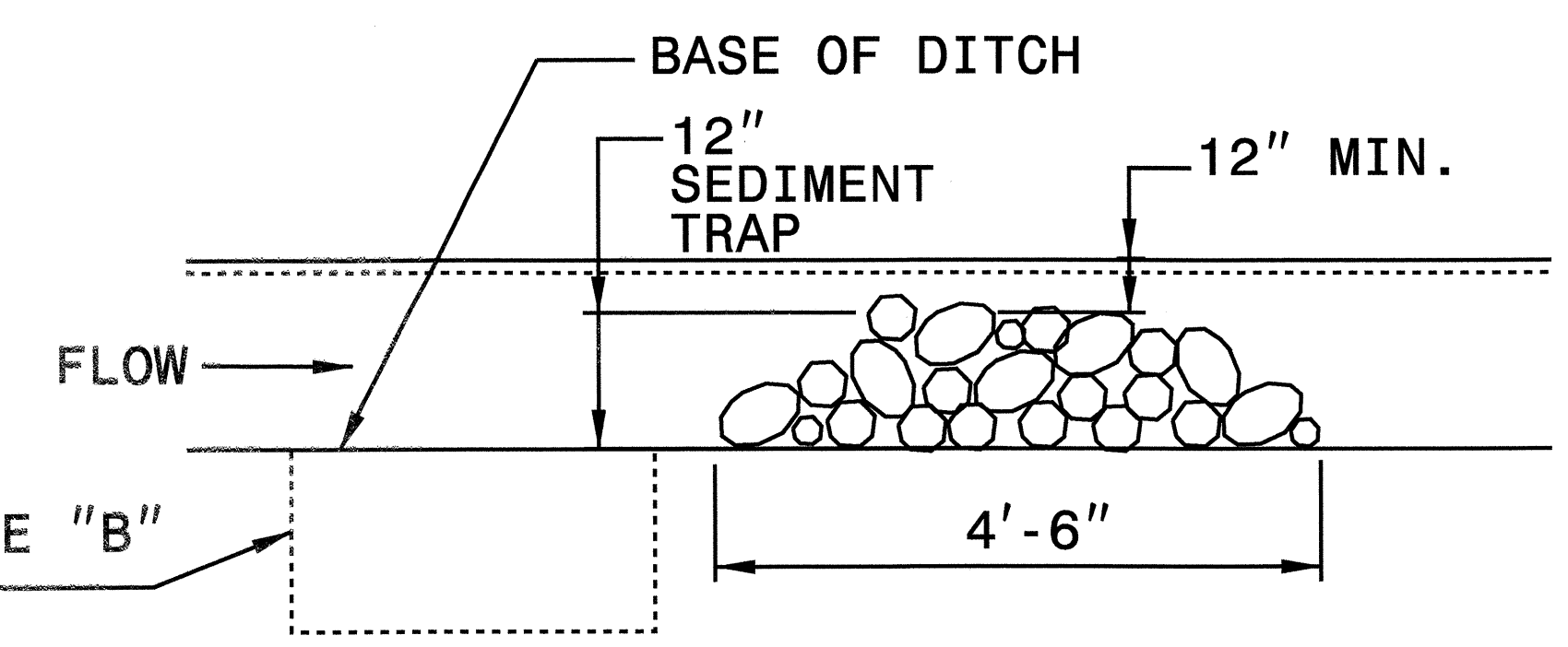
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

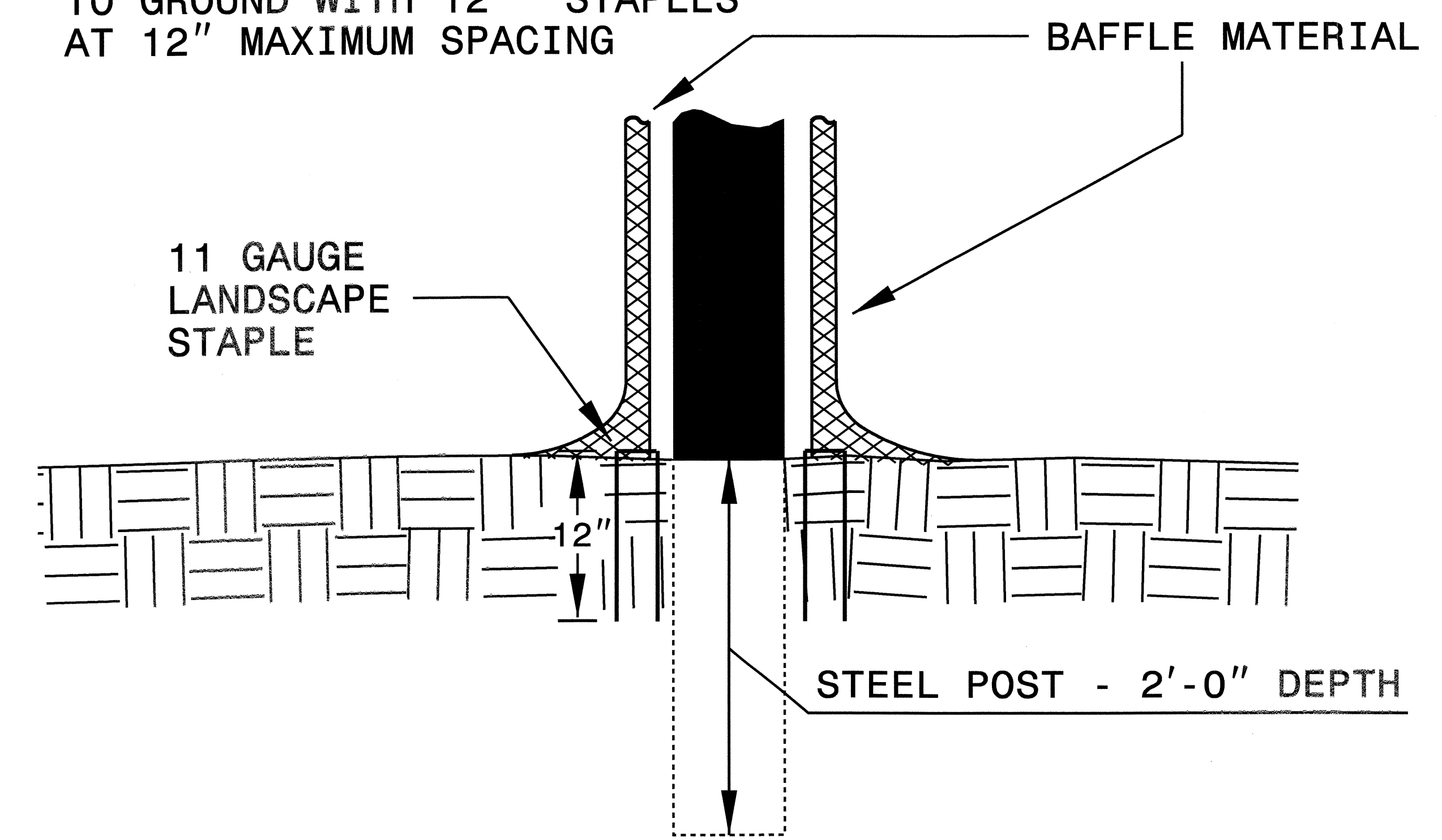
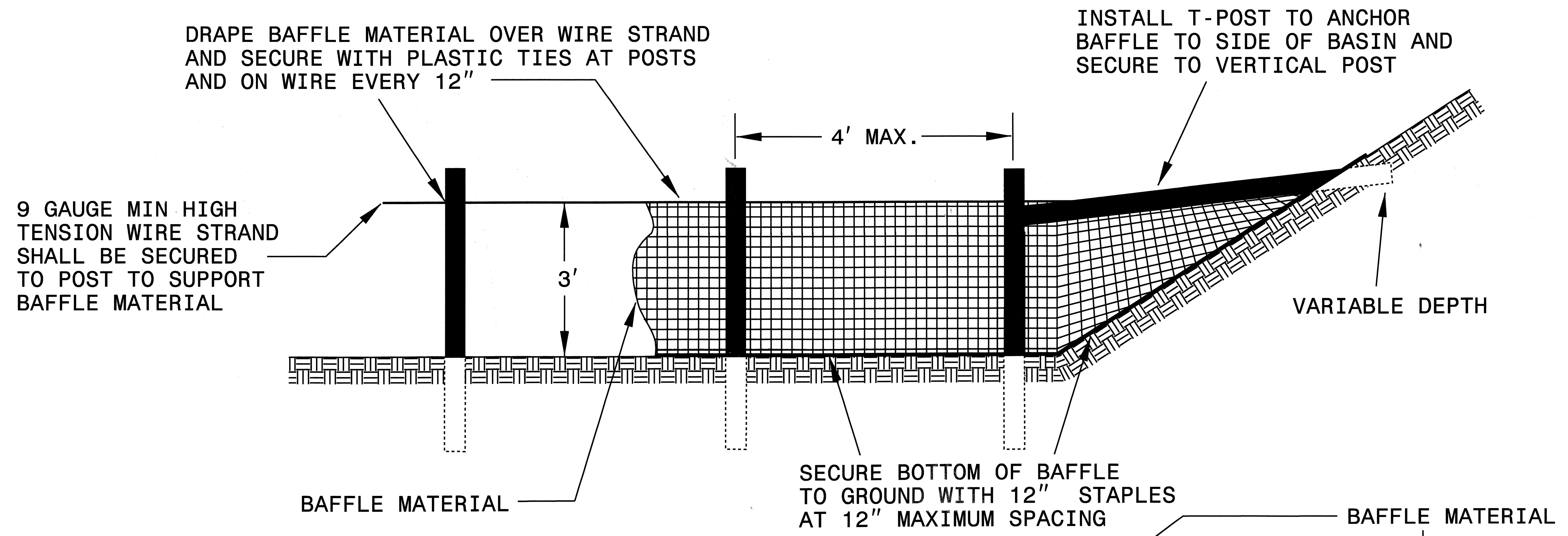


**ELEVATION VIEW**

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# COIR FIBER BAFFLE DETAIL



**NOTES:**

1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH.

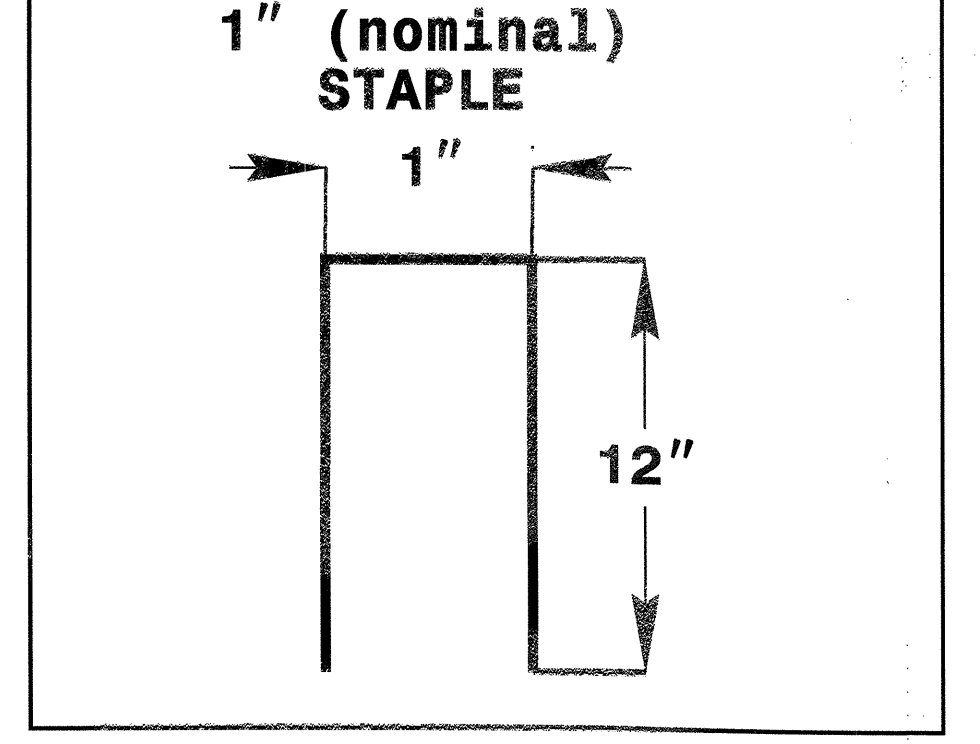
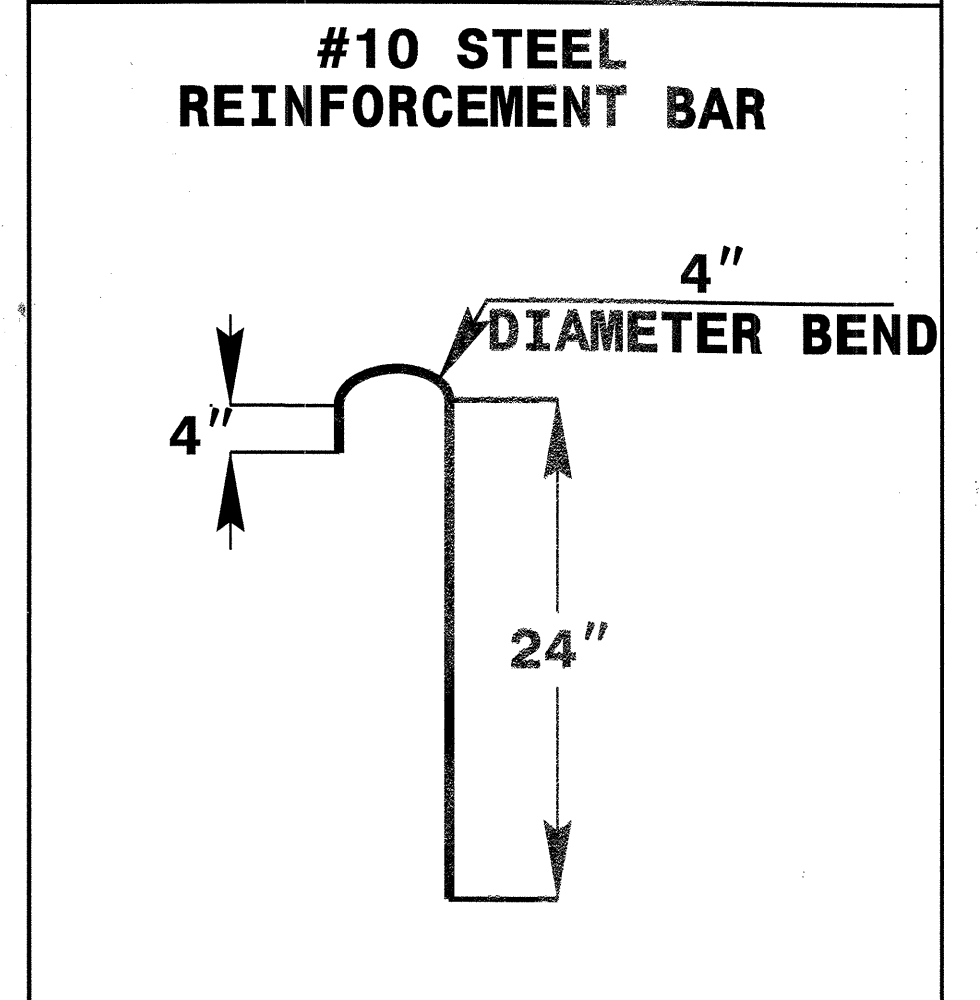
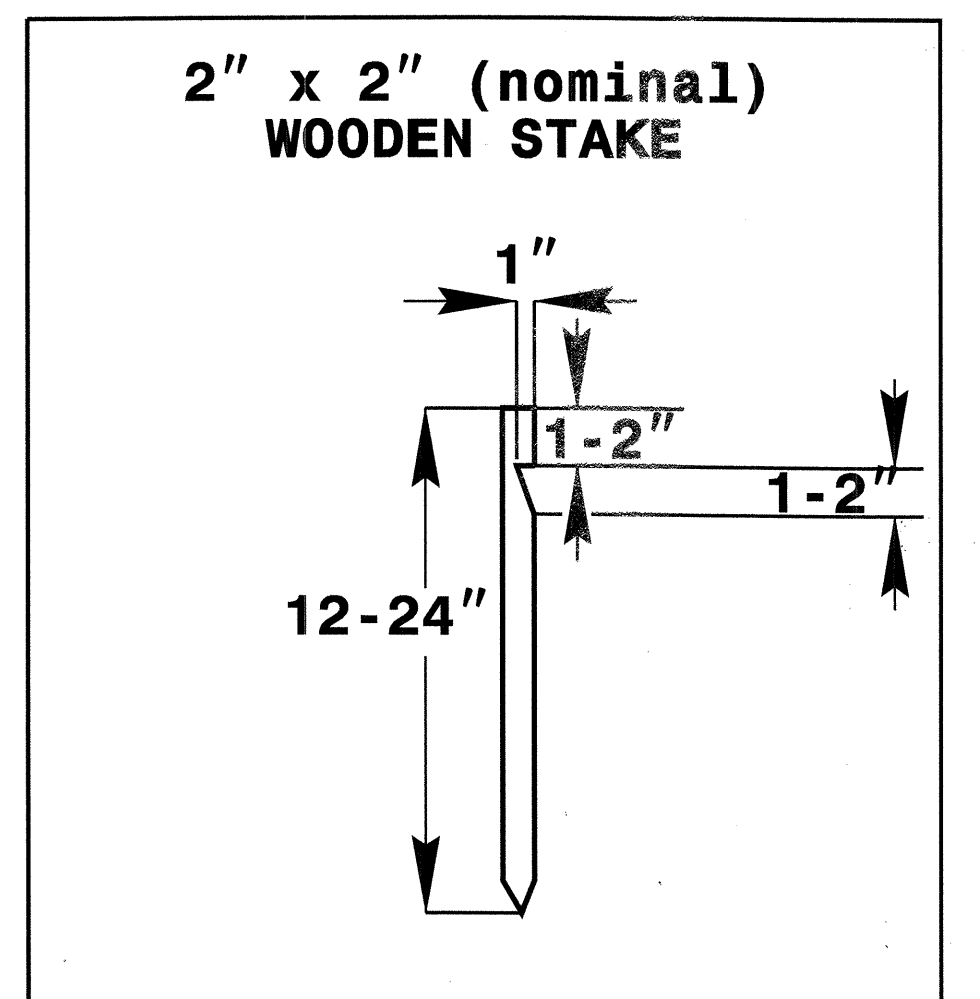
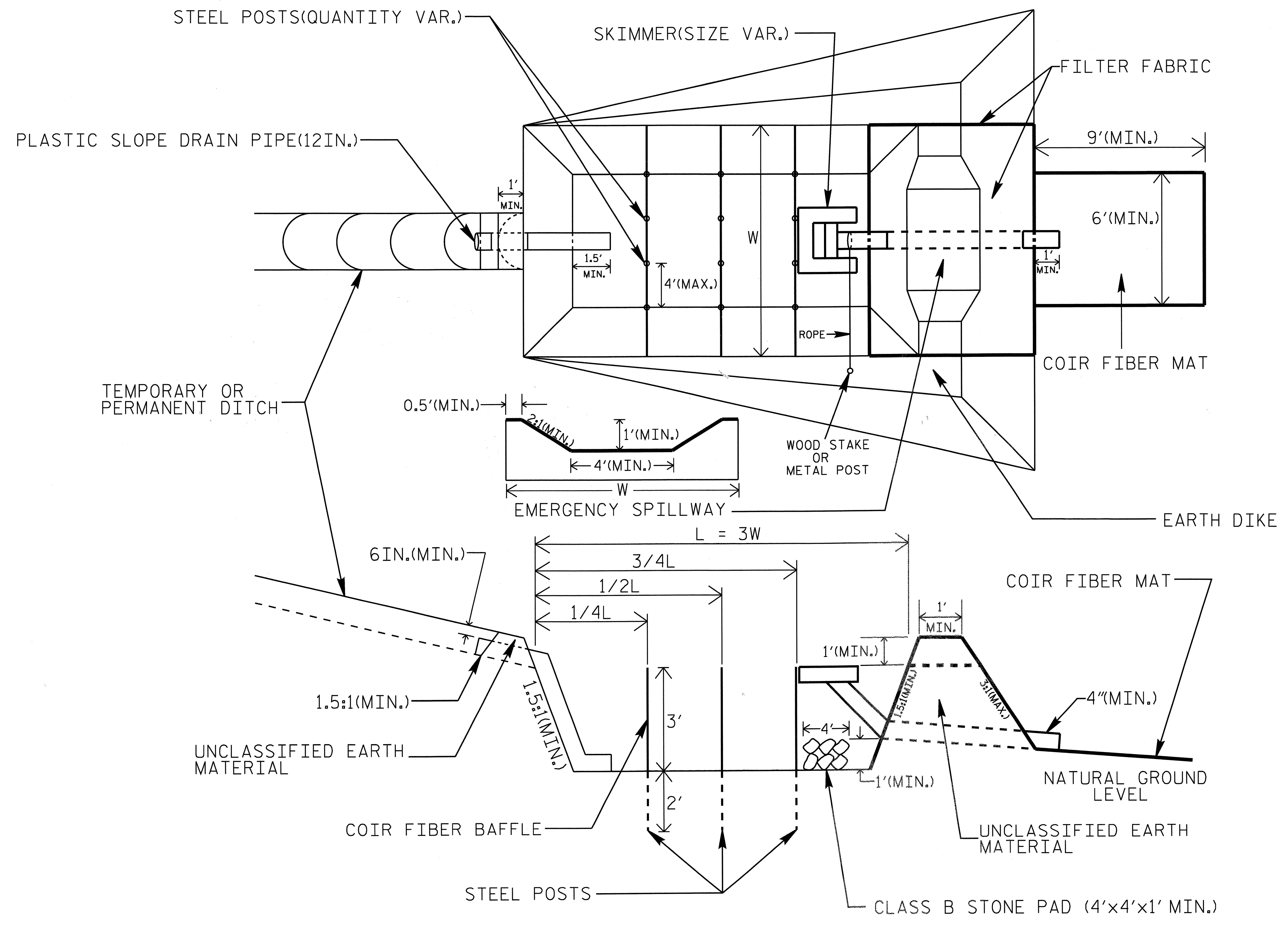
2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

557003-R014-EROS-PHO-01.dgn 1/20/2011

# SKIMMER BASIN WITH BAFFLES DETAIL



## COIR FIBER MAT ANCHOR OPTIONS

### NOTES

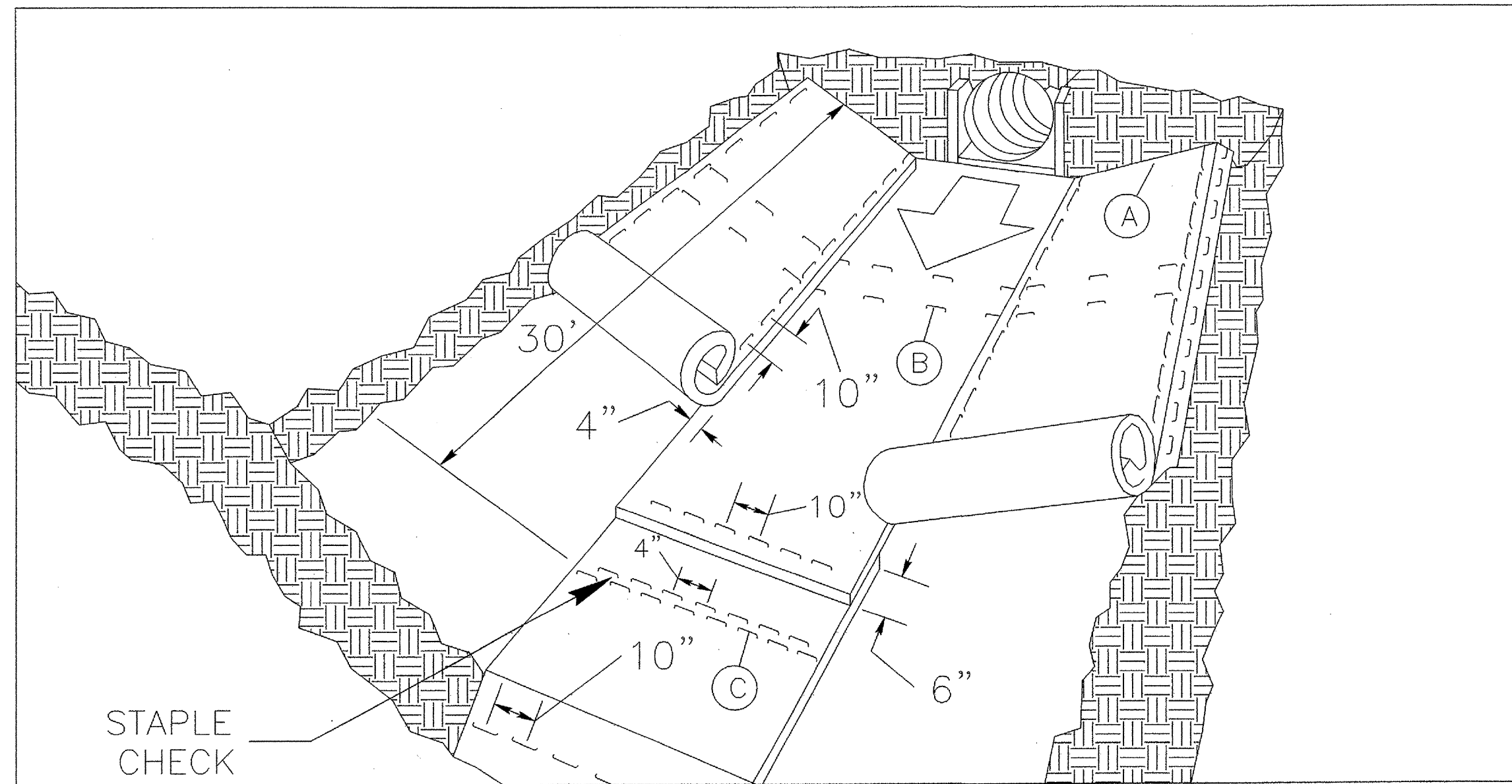
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

557003-R04-EROS-PHO-01.dgn 1/20/2011



# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

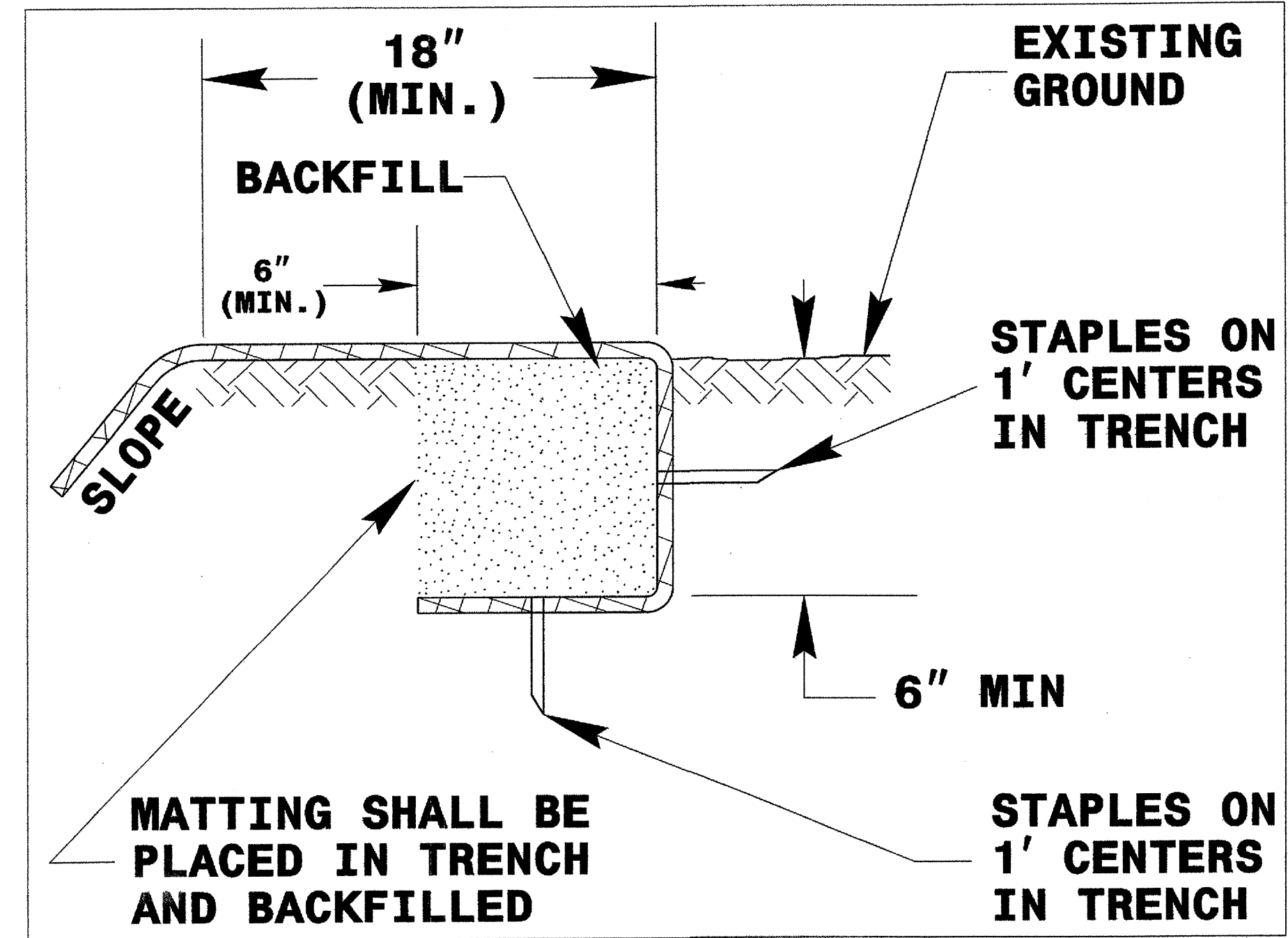
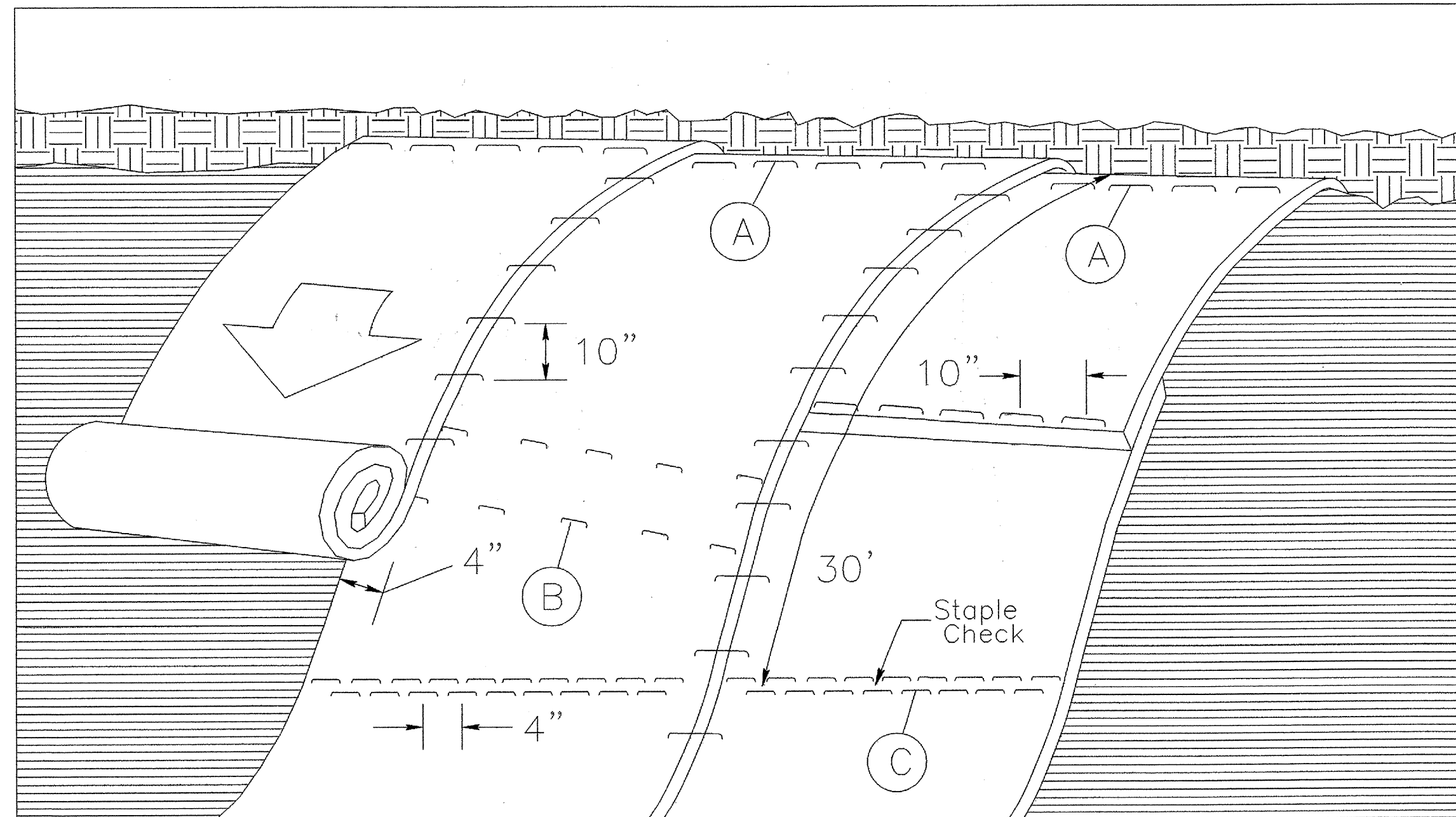


DIAGRAM (A)



**MATTING ON SLOPES**

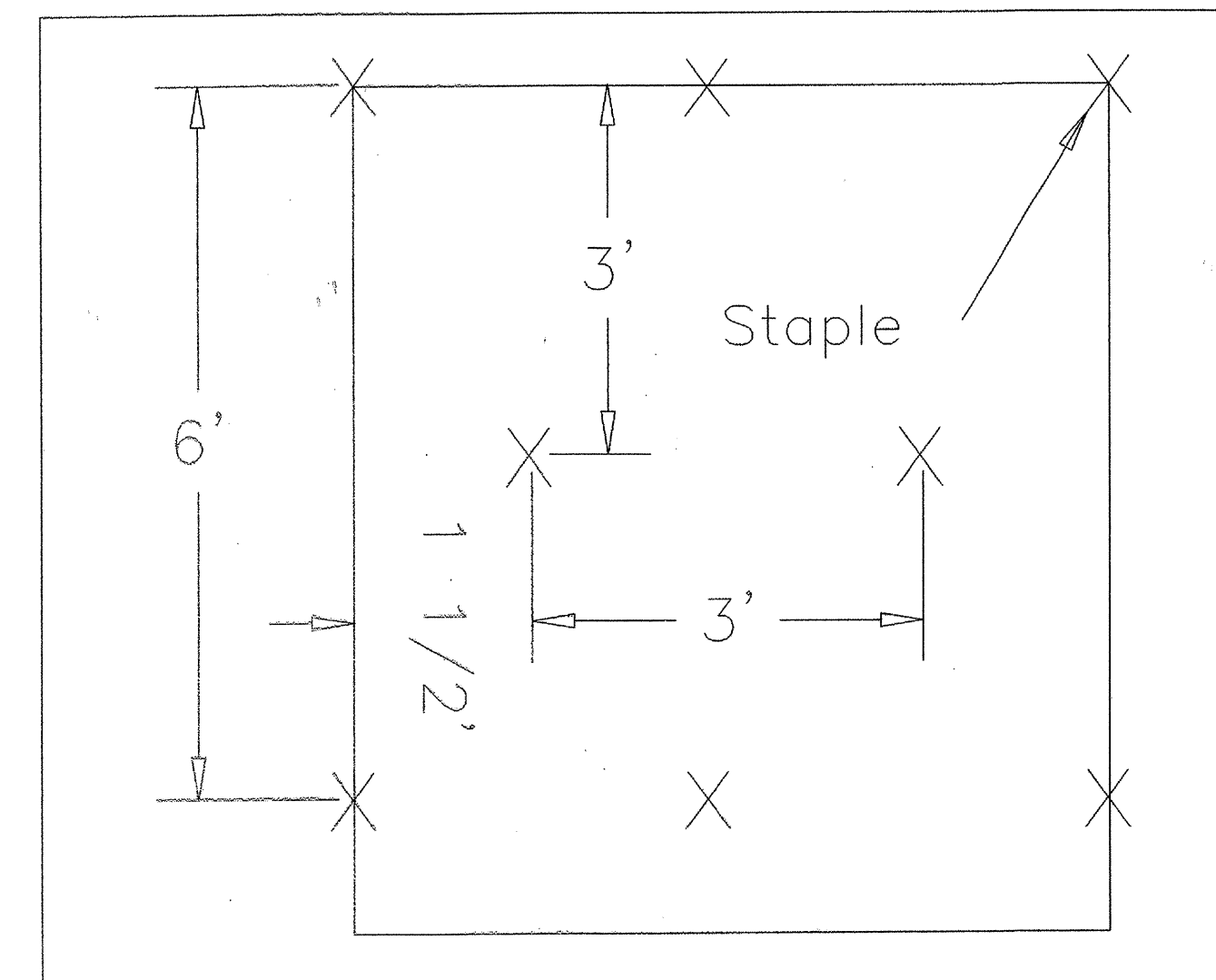


DIAGRAM (B)

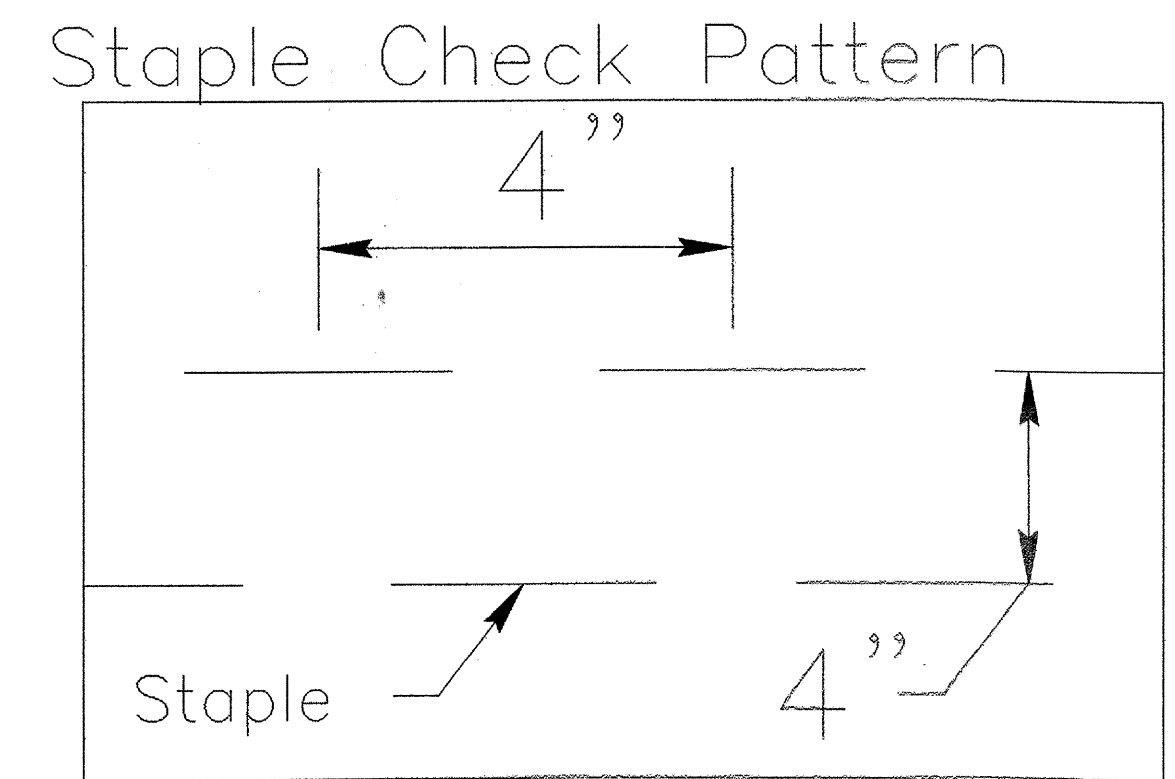


DIAGRAM (C)

**NOTES:**

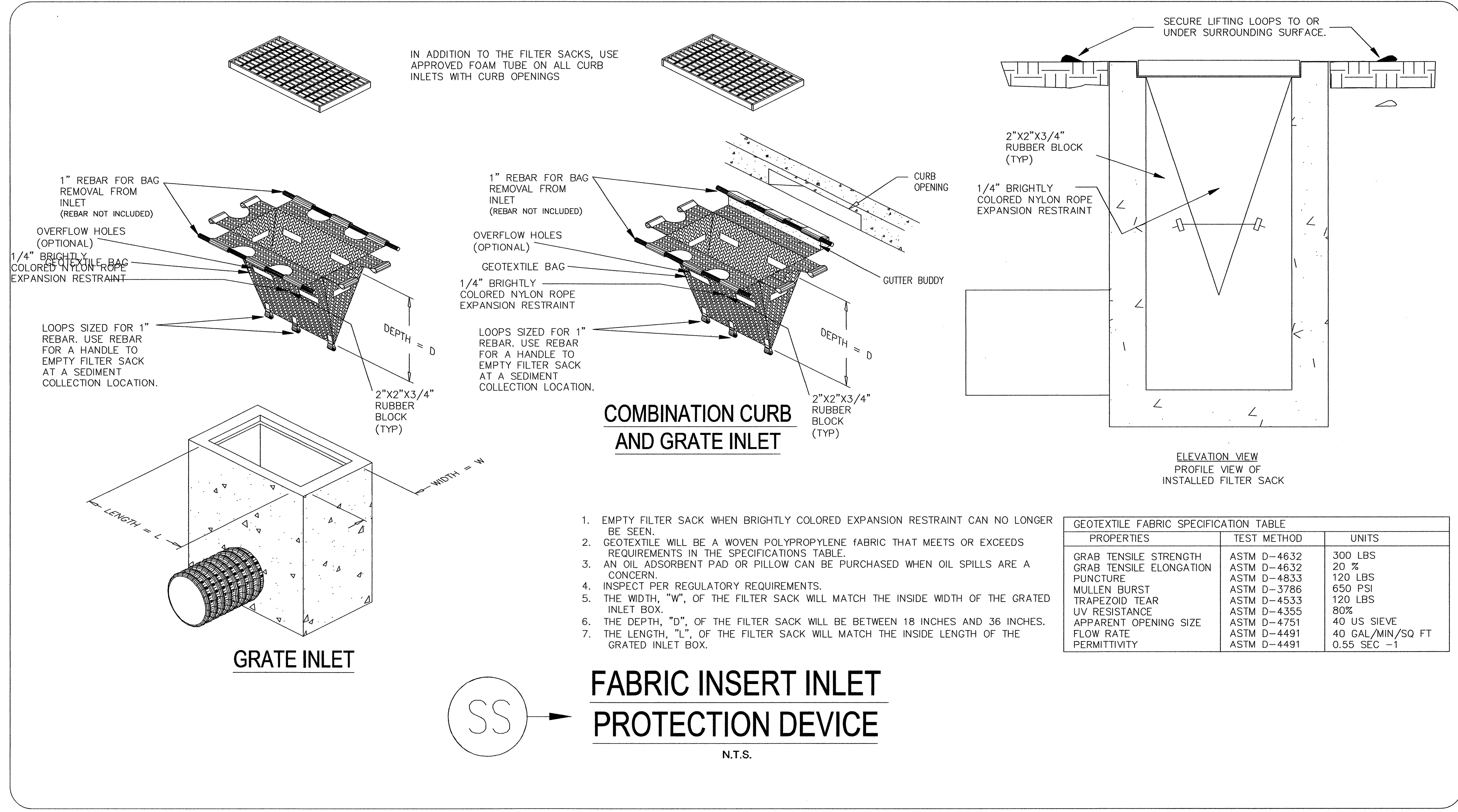
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

**NOT TO SCALE**

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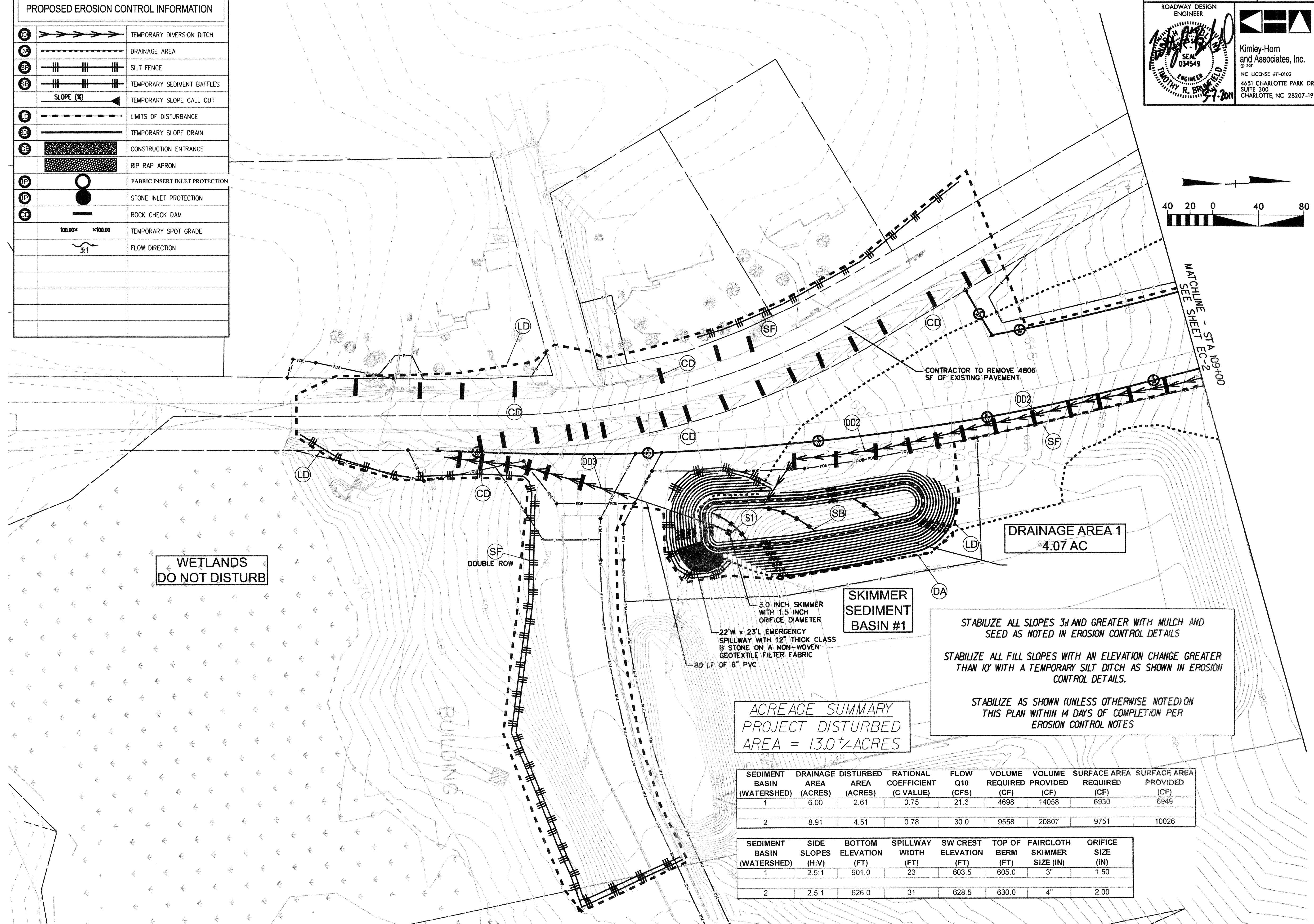
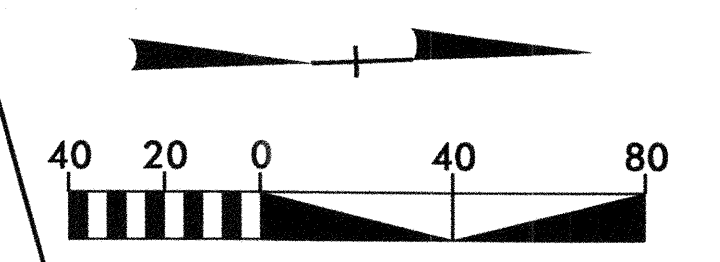
5/14/99  
STANDARD CONDITIONS





**PROPOSED EROSION CONTROL INFORMATION**

DD		TEMPORARY DIVERSION DITCH
DA		DRAINAGE AREA
SF		SILT FENCE
SB		TEMPORARY SEDIMENT BAFFLES
SLOPE (%)		TEMPORARY SLOPE CALL OUT
LD		LIMITS OF DISTURBANCE
SD		TEMPORARY SLOPE DRAIN
CE		CONSTRUCTION ENTRANCE
RA		RIP RAP APRON
FI		FABRIC INSERT INLET PROTECTION
IS		STONE INLET PROTECTION
RD		ROCK CHECK DAM
SG		TEMPORARY SPOT GRADE
3:1		FLOW DIRECTION



**DRAINAGE AREA 1**  
4.07 AC

**SKIMMER SEDIMENT BASIN #1**

3.0 INCH SKIMMER WITH 1.5 INCH ORIFICE DIAMETER  
 22'W x 23'L EMERGENCY SPILLWAY WITH 12" THICK CLASS B STONE ON A NON-WOVEN GEOTEXTILE FILTER FABRIC  
 80 LF OF 6" PVC

STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS  
 STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.  
 STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

**ACREAGE SUMMARY**  
 PROJECT DISTURBED AREA = 13.0 ± ACRES

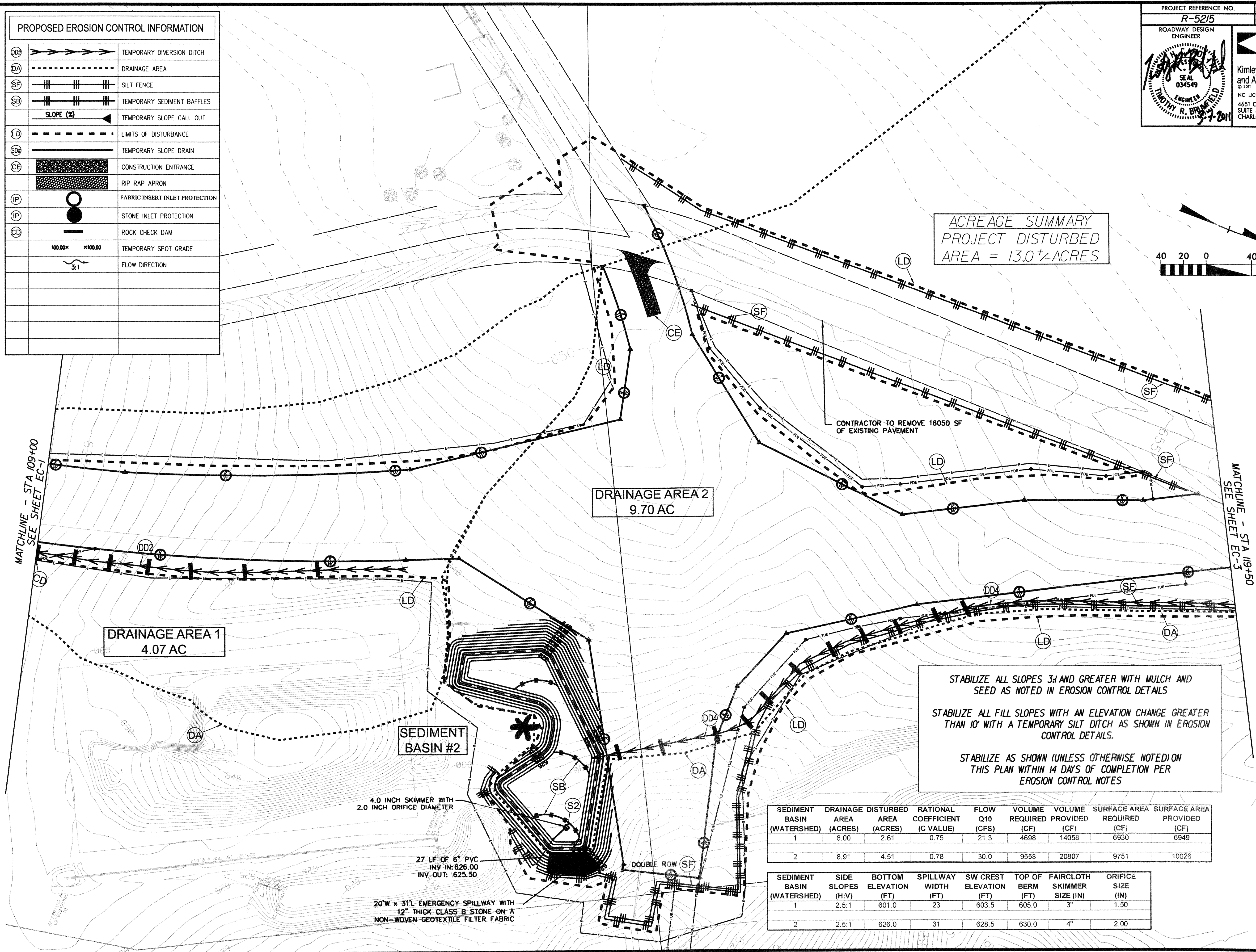
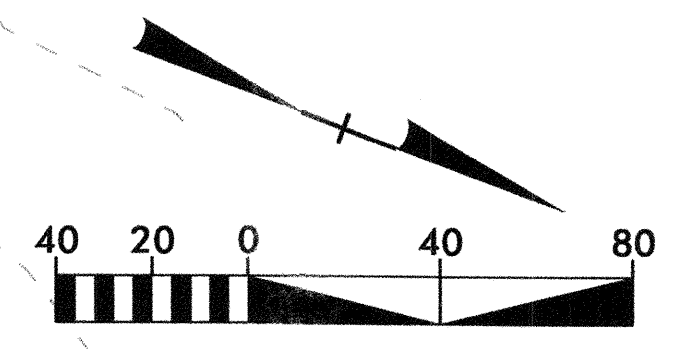
SEDIMENT BASIN (WATERSHED)	DRAINAGE AREA (ACRES)	DISTURBED AREA (ACRES)	RATIONAL COEFFICIENT (C VALUE)	FLOW Q10 (CFS)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SURFACE AREA REQUIRED (CF)	SURFACE AREA PROVIDED (CF)
1	6.00	2.61	0.75	21.3	4698	14058	6930	6949
2	8.91	4.51	0.78	30.0	9558	20807	9751	10026

SEDIMENT BASIN (WATERSHED)	SIDE SLOPES (H:V)	BOTTOM ELEVATION (FT)	SPILLWAY WIDTH (FT)	SW CREST ELEVATION (FT)	TOP OF BERM (FT)	FAIRCLOTH SKIMMER SIZE (IN)	ORIFICE SIZE (IN)
1	2.5:1	601.0	23	603.5	605.0	3"	1.50
2	2.5:1	626.0	31	628.5	630.0	4"	2.00



PROPOSED EROSION CONTROL INFORMATION		
DD		TEMPORARY DIVERSION DITCH
DA		DRAINAGE AREA
SF		SILT FENCE
SB		TEMPORARY SEDIMENT BAFFLES
		TEMPORARY SLOPE CALL OUT
LD		LIMITS OF DISTURBANCE
SD		TEMPORARY SLOPE DRAIN
CE		CONSTRUCTION ENTRANCE
		RIP RAP APRON
IP		FABRIC INSERT INLET PROTECTION
IP		STONE INLET PROTECTION
CD		ROCK CHECK DAM
		TEMPORARY SPOT GRADE
		FLOW DIRECTION

ACREAGE SUMMARY  
 PROJECT DISTURBED  
 AREA = 13.0 ± ACRES



STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

SEDIMENT BASIN (WATERSHED)	DRAINAGE AREA (ACRES)	DISTURBED AREA (ACRES)	RATIONAL COEFFICIENT (C VALUE)	FLOW Q10 (CFS)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SURFACE AREA REQUIRED (CF)	SURFACE AREA PROVIDED (CF)
1	6.00	2.61	0.75	21.3	4698	14058	6930	6949
2	8.91	4.51	0.78	30.0	9558	20807	9751	10026

SEDIMENT BASIN (WATERSHED)	SIDE SLOPES (H:V)	BOTTOM ELEVATION (FT)	SPILLWAY WIDTH (FT)	SW CREST ELEVATION (FT)	TOP OF BERM (FT)	FAIRCLOTH SKIMMER SIZE (IN)	ORIFICE SIZE (IN)
1	2.5:1	601.0	23	603.5	605.0	3"	1.50
2	2.5:1	626.0	31	628.5	630.0	4"	2.00

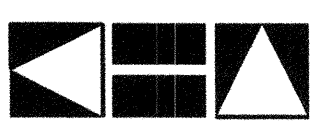
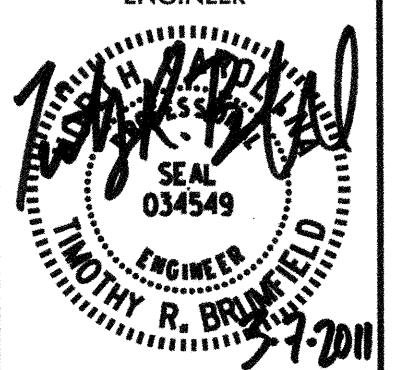
4.0 INCH SKIMMER WITH 2.0 INCH ORIFICE DIAMETER

27 LF OF 6" PVC  
 INV IN: 626.00  
 INV OUT: 625.50

20'W x 31'L EMERGENCY SPILLWAY WITH 12" THICK CLASS B STONE ON A NON-WOVEN GEOTEXTILE FILTER FABRIC



PROPOSED EROSION CONTROL INFORMATION	
TD	TEMPORARY DIVERSION DITCH
DA	DRAINAGE AREA
SF	SILT FENCE
SB	TEMPORARY SEDIMENT BAFFLES
SLOPE (%)	TEMPORARY SLOPE CALL OUT
LD	LIMITS OF DISTURBANCE
SD	TEMPORARY SLOPE DRAIN
CE	CONSTRUCTION ENTRANCE
RA	RIP RAP APRON
IP	FABRIC INSERT INLET PROTECTION
IP	STONE INLET PROTECTION
CD	ROCK CHECK DAM
100.00' x 100.00'	TEMPORARY SPOT GRADE
3:1	FLOW DIRECTION

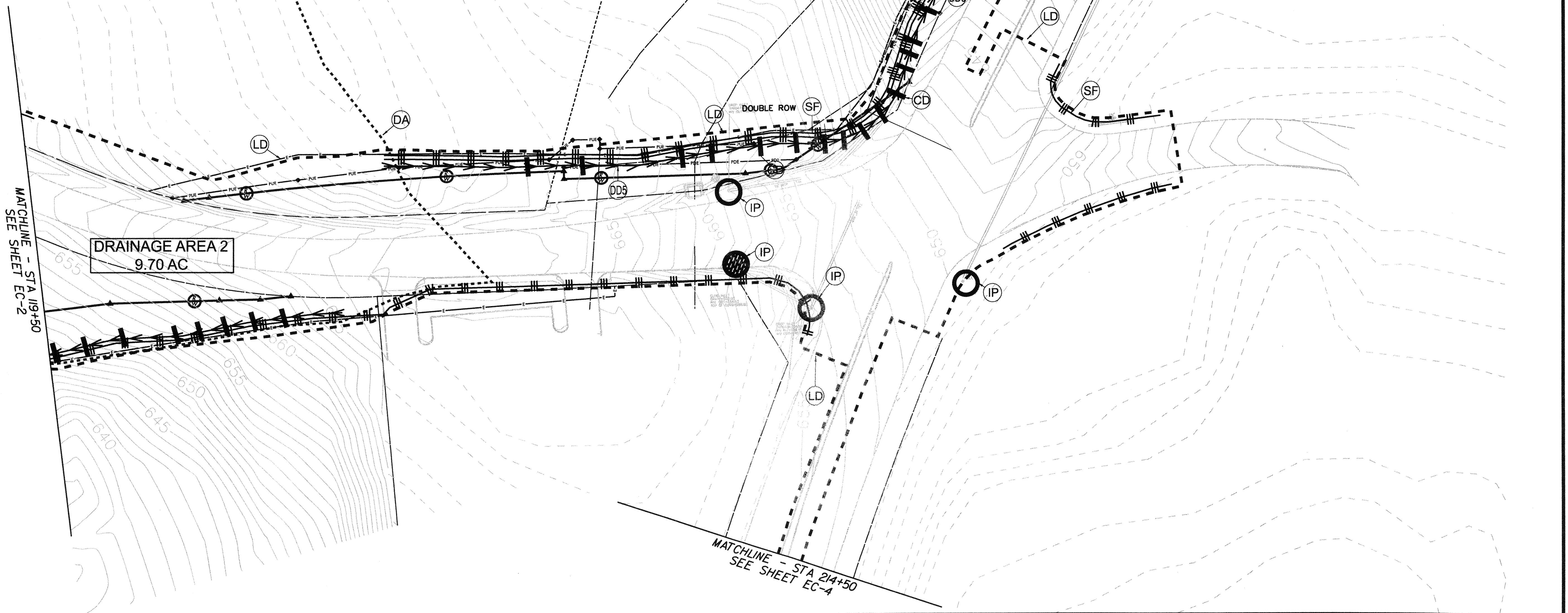
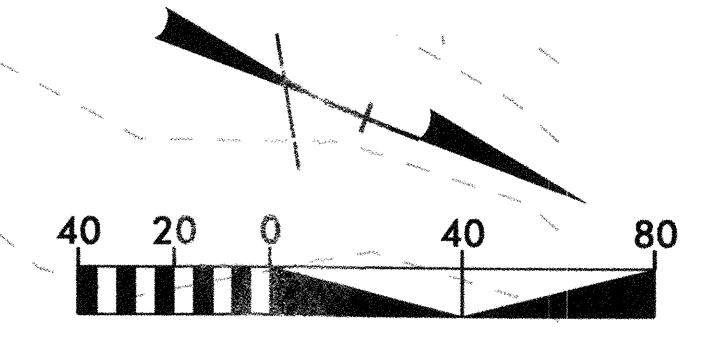
PROJECT REFERENCE NO. <b>R-5215</b>	SHEET NO. <b>EC-5</b>
ROADWAY DESIGN ENGINEER	
	Kimley-Horn and Associates, Inc. © 2011 NC LICENSE #F-0102 4651 CHARLOTTE PARK DRIVE SUITE 300 CHARLOTTE, NC 28207-1911

STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

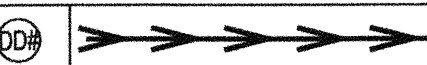












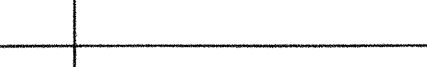
STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

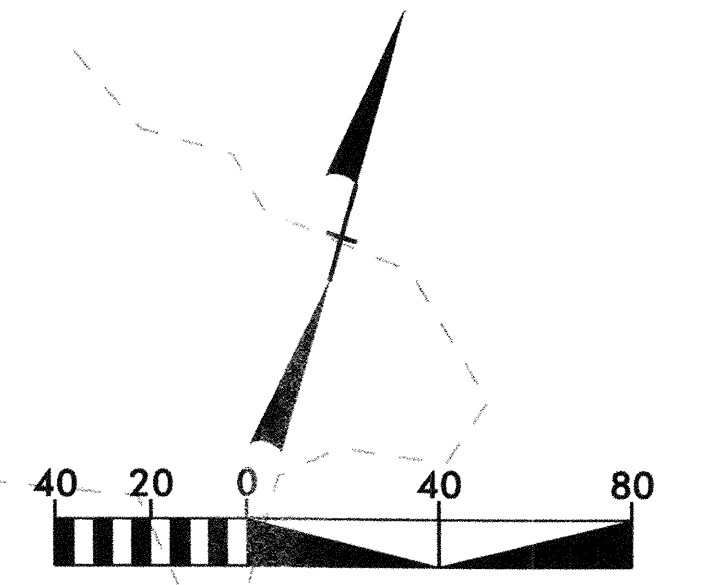
ACREAGE SUMMARY  
PROJECT DISTURBED  
AREA = 13.0 ± ACRES



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PROPOSED EROSION CONTROL INFORMATION	
	TEMPORARY DIVERSION DITCH
	DRAINAGE AREA
	SILT FENCE
	TEMPORARY SEDIMENT BAFFLES
	TEMPORARY SLOPE CALL OUT
	LIMITS OF DISTURBANCE
	TEMPORARY SLOPE DRAIN
	CONSTRUCTION ENTRANCE
	RIP RAP APRON
	FABRIC INSERT INLET PROTECTION
	STONE INLET PROTECTION
	ROCK CHECK DAM
	TEMPORARY SPOT GRADE
	FLOW DIRECTION

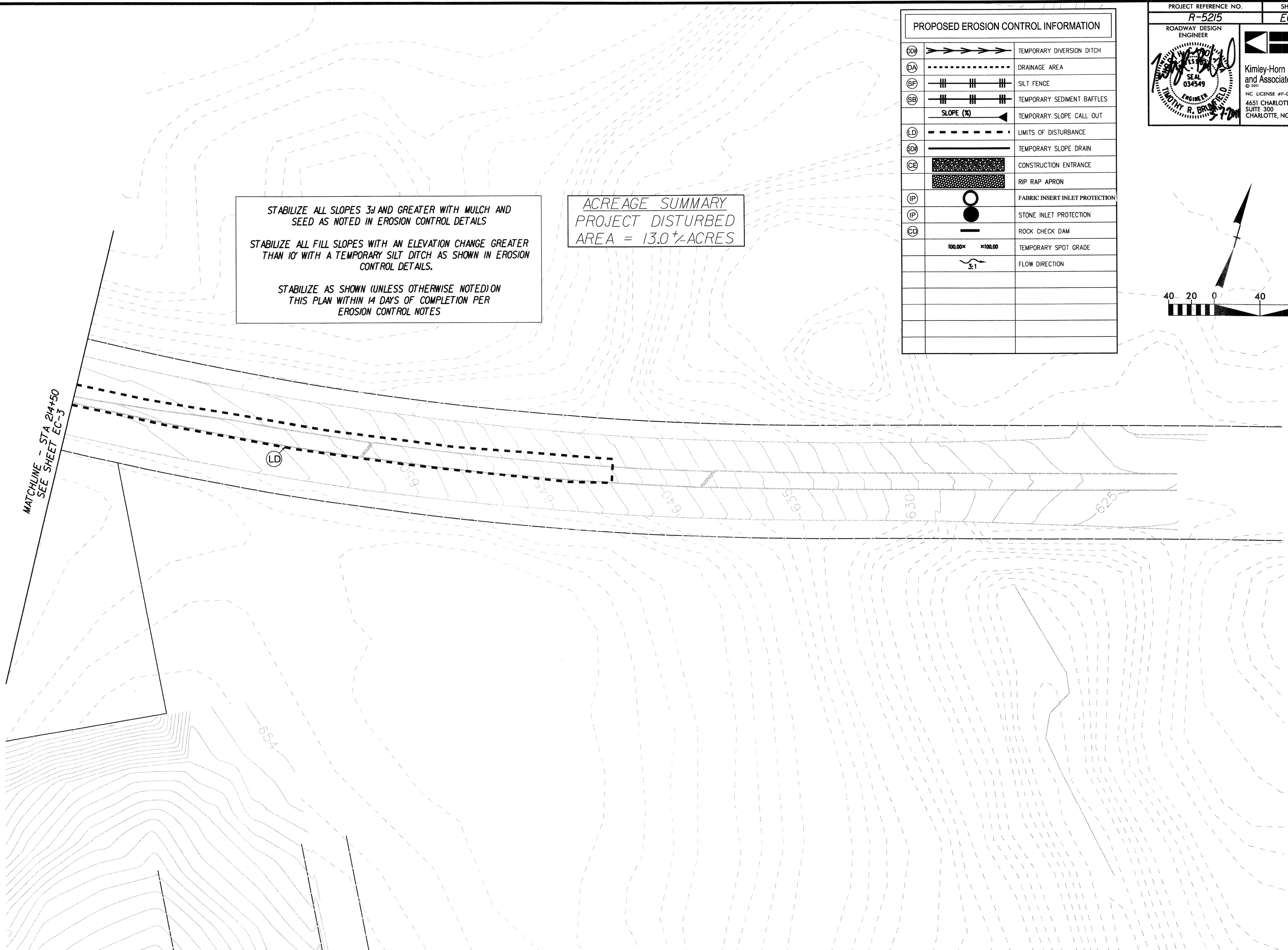


STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

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ACREAGE SUMMARY  
PROJECT DISTURBED  
AREA = 13.0 +/- ACRES

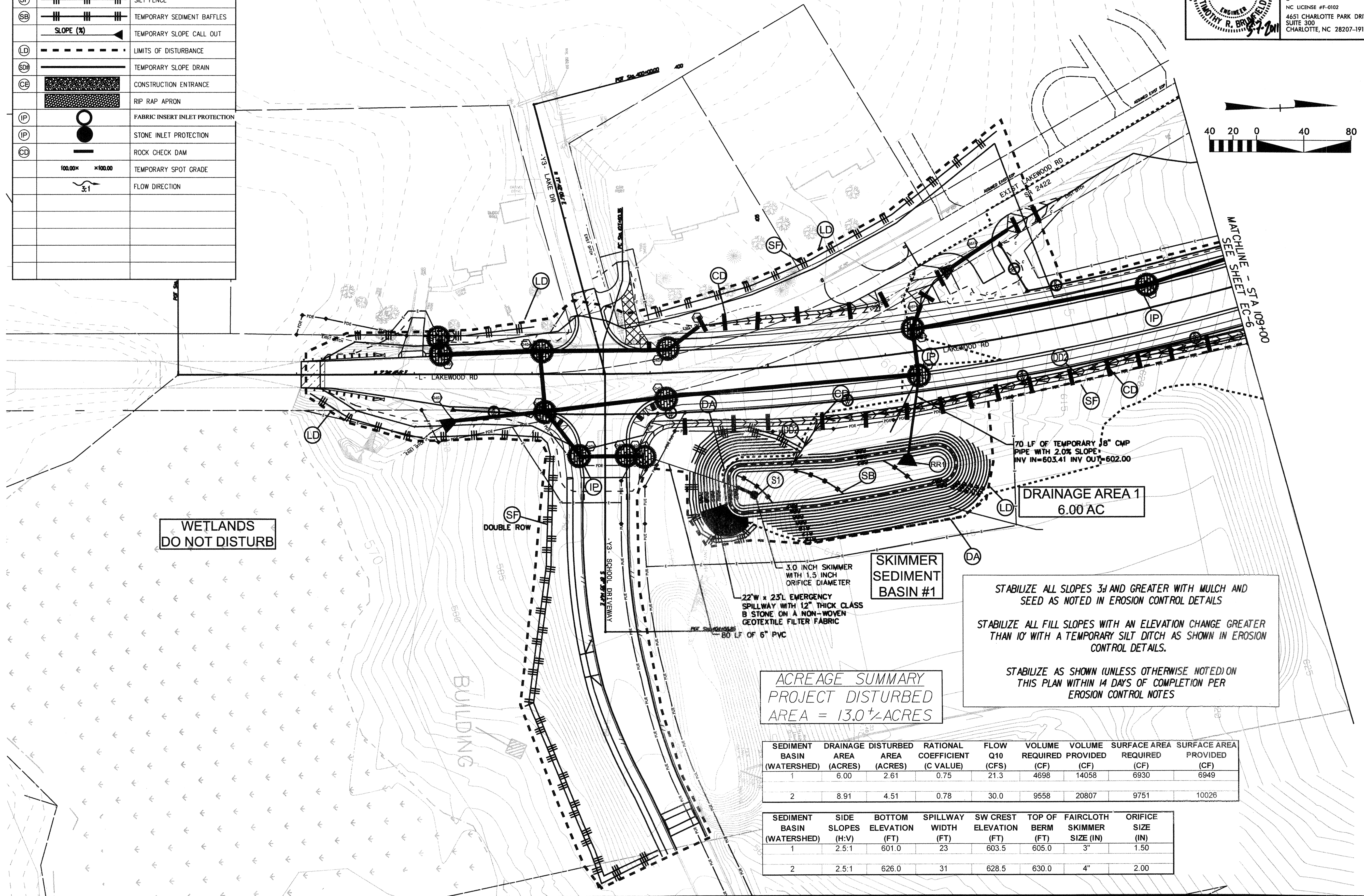
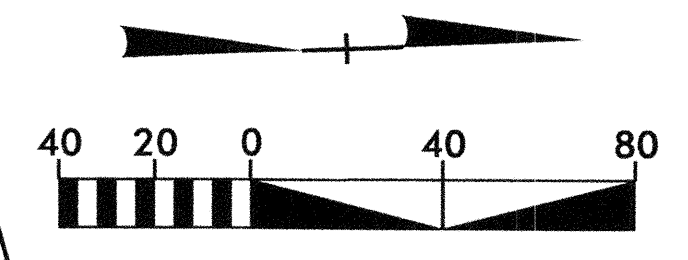




**PROPOSED EROSION CONTROL INFORMATION**

DD		TEMPORARY DIVERSION DITCH
DA		DRAINAGE AREA
SF		SILT FENCE
SB		TEMPORARY SEDIMENT BAFFLES
SLOPE (%)		TEMPORARY SLOPE CALL OUT
LD		LIMITS OF DISTURBANCE
SD		TEMPORARY SLOPE DRAIN
CE		CONSTRUCTION ENTRANCE
		RIP RAP APRON
IP		FABRIC INSERT INLET PROTECTION
IP		STONE INLET PROTECTION
CD		ROCK CHECK DAM
100.00' x 100.00'		TEMPORARY SPOT GRADE
3:1		FLOW DIRECTION

PROJECT REFERENCE NO. **R-5215** SHEET NO. **EC-7**  
 ROADWAY DESIGN ENGINEER  
  
 Kimley-Horn and Associates, Inc.  
 © 2011  
 NC LICENSE #F-0102  
 4651 CHARLOTTE PARK DRIVE  
 SUITE 300  
 CHARLOTTE, NC 28207-1911



70 LF OF TEMPORARY 18" CMP PIPE WITH 2.0% SLOPE  
 INV IN=603.41 INV OUT=602.00

**DRAINAGE AREA 1**  
 6.00 AC

**SKIMMER SEDIMENT BASIN #1**

3.0 INCH SKIMMER WITH 1.5 INCH ORIFICE DIAMETER  
 22'W x 23'L EMERGENCY SPILLWAY WITH 12" THICK CLASS B STONE ON A NON-WOVEN GEOTEXTILE FILTER FABRIC  
 80 LF OF 6" PVC

STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

**ACREAGE SUMMARY**  
 PROJECT DISTURBED  
 AREA = 13.0 ± ACRES

SEDIMENT BASIN (WATERSHED)	DRAINAGE AREA (ACRES)	DISTURBED AREA (ACRES)	RATIONAL COEFFICIENT (C VALUE)	FLOW Q10 (CFS)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SURFACE AREA REQUIRED (CF)	SURFACE AREA PROVIDED (CF)
1	6.00	2.61	0.75	21.3	4698	14058	6930	6949
2	8.91	4.51	0.78	30.0	9558	20807	9751	10026

SEDIMENT BASIN (WATERSHED)	SIDE SLOPES (H:V)	BOTTOM ELEVATION (FT)	SPILLWAY WIDTH (FT)	SW CREST ELEVATION (FT)	TOP OF BERM (FT)	FAIRCLOTH SKIMMER SIZE (IN)	ORIFICE SIZE (IN)
1	2.5:1	601.0	23	603.5	605.0	3"	1.50
2	2.5:1	626.0	31	628.5	630.0	4"	2.00

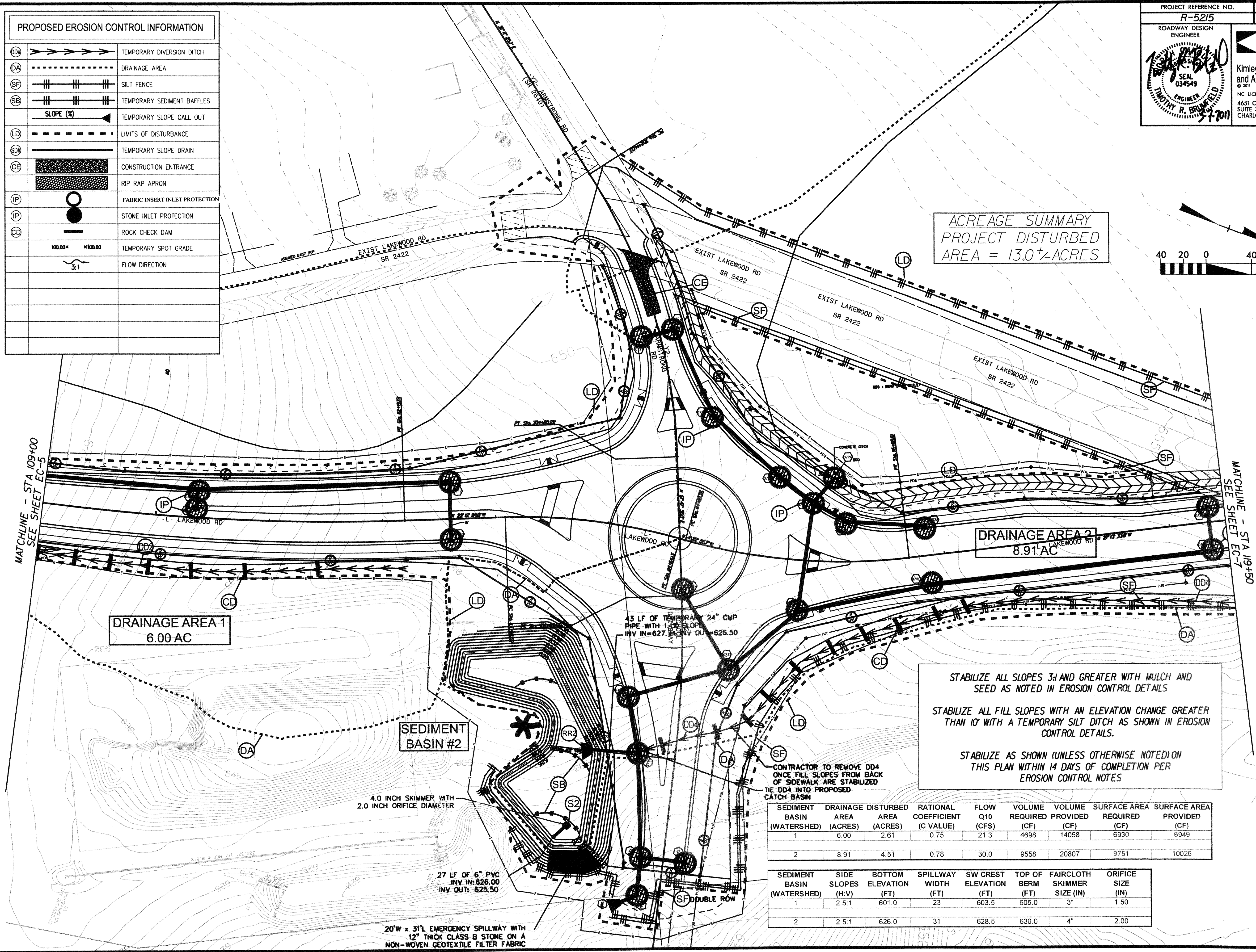
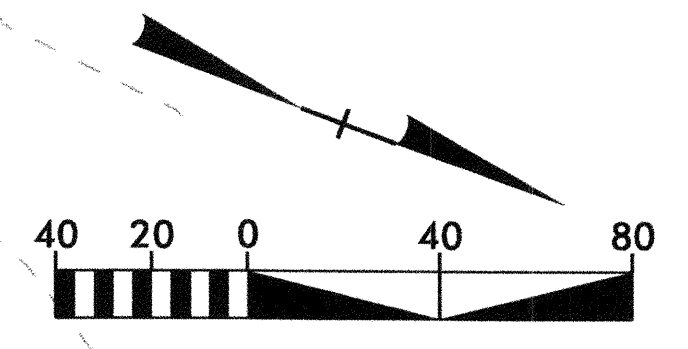
557003-RD14-EROS-PH2-01.dgn 3/4/2011



**PROPOSED EROSION CONTROL INFORMATION**

DD	→→→→	TEMPORARY DIVERSION DITCH
DA	-----	DRAINAGE AREA
SF		SILT FENCE
SB		TEMPORARY SEDIMENT BAFFLES
	▲	TEMPORARY SLOPE CALL OUT
LD	-----	LIMITS OF DISTURBANCE
SD	-----	TEMPORARY SLOPE DRAIN
CE	▨▨▨▨	CONSTRUCTION ENTRANCE
	▨▨▨▨	RIP RAP APRON
IP	○	FABRIC INSERT INLET PROTECTION
IP	●	STONE INLET PROTECTION
CD	— —	ROCK CHECK DAM
	100.00' x 100.00'	TEMPORARY SPOT GRADE
	3:1	FLOW DIRECTION

ACREAGE SUMMARY  
 PROJECT DISTURBED  
 AREA = 13.0 1/2 ACRES



STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

SEDIMENT BASIN (WATERSHED)	DRAINAGE AREA (ACRES)	DISTURBED AREA (ACRES)	RATIONAL COEFFICIENT (C VALUE)	FLOW Q10 (CFS)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SURFACE AREA REQUIRED (CF)	SURFACE AREA PROVIDED (CF)
1	6.00	2.61	0.75	21.3	4698	14058	6930	6949
2	8.91	4.51	0.78	30.0	9558	20807	9751	10026


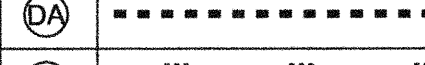








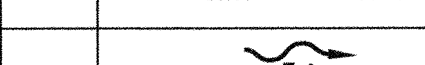



SEDIMENT BASIN (WATERSHED)	SIDE SLOPES (H:V)	BOTTOM ELEVATION (FT)	SPILLWAY WIDTH (FT)	SW CREST ELEVATION (FT)	TOP OF BERM (FT)	FAIRCLOTH SKIMMER SIZE (IN)	ORIFICE SIZE (IN)
1	2.5:1	601.0	23	603.5	605.0	3"	1.50
2	2.5:1	626.0	31	628.5	630.0	4"	2.00

4.0 INCH SKIMMER WITH 2.0 INCH ORIFICE DIAMETER

27 LF OF 6" PVC INY IN: 626.00 INY OUT: 625.50

20'W x 31'L EMERGENCY SPILLWAY WITH 12" THICK CLASS B STONE ON A NON-WOVEN GEOTEXTILE FILTER FABRIC



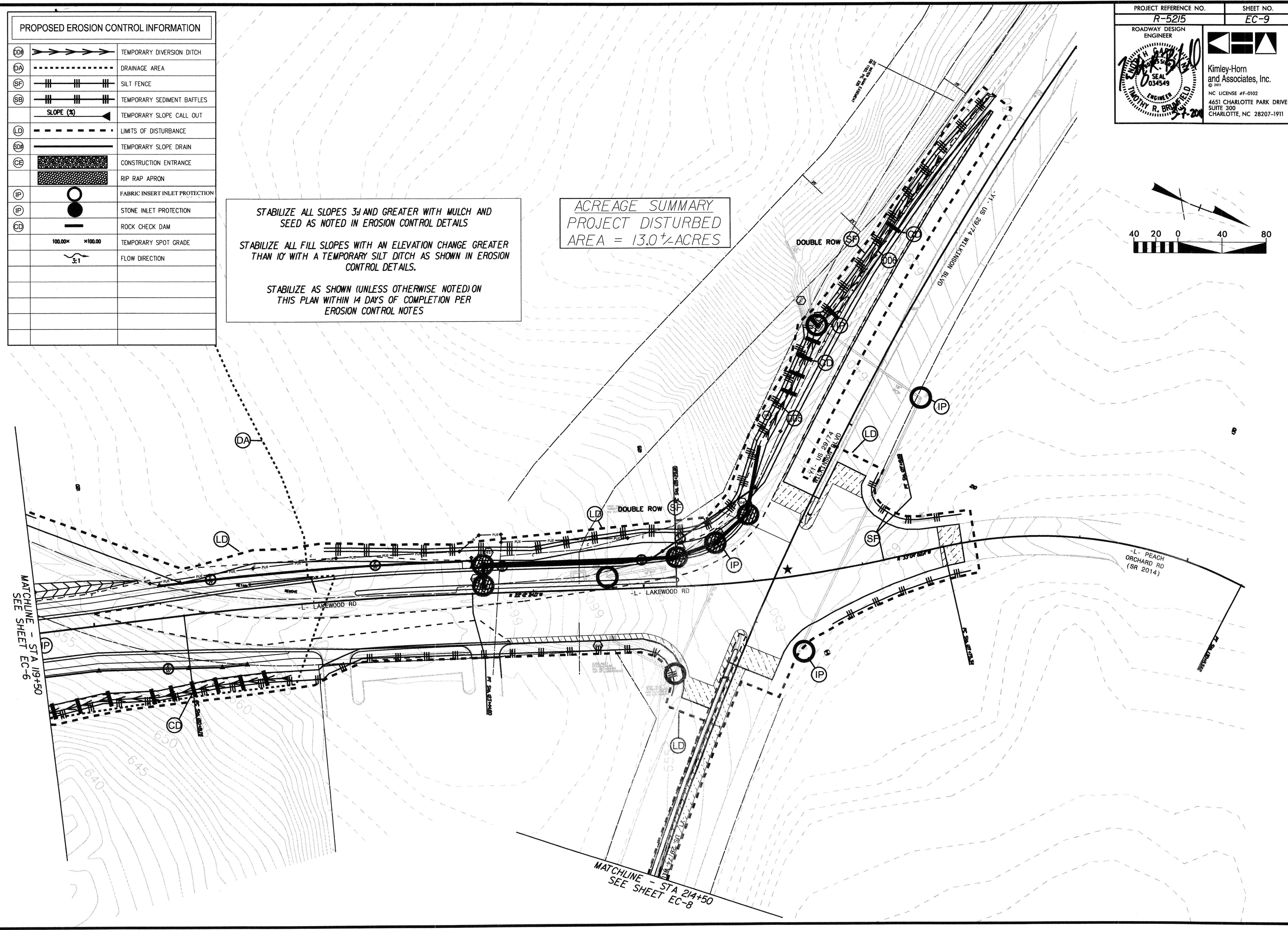
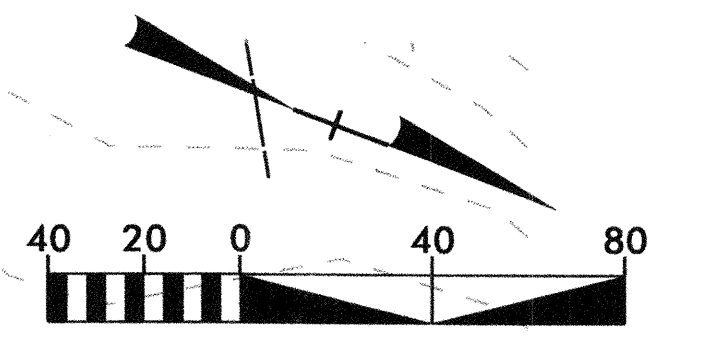
PROPOSED EROSION CONTROL INFORMATION	
	TEMPORARY DIVERSION DITCH
	DRAINAGE AREA
	SILT FENCE
	TEMPORARY SEDIMENT BAFFLES
	TEMPORARY SLOPE CALL OUT
	LIMITS OF DISTURBANCE
	TEMPORARY SLOPE DRAIN
	CONSTRUCTION ENTRANCE
	RIP RAP APRON
	FABRIC INSERT INLET PROTECTION
	STONE INLET PROTECTION
	ROCK CHECK DAM
	TEMPORARY SPOT GRADE
	FLOW DIRECTION

STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

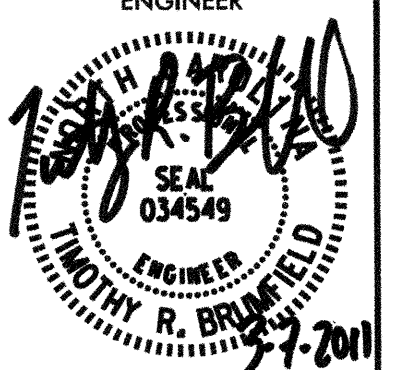

STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES




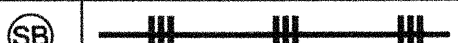
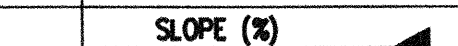









ACREAGE SUMMARY  
PROJECT DISTURBED  
AREA = 13.0 1/2 ACRES

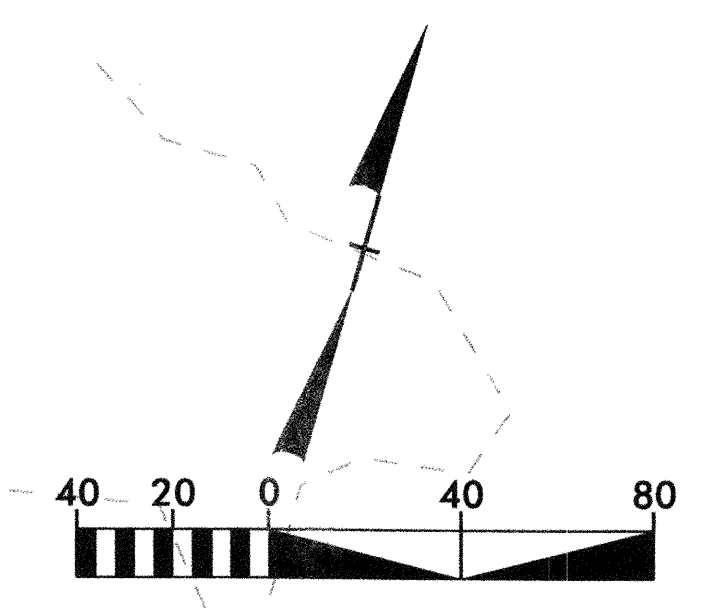


557003-RD14-EROS-PH2-03.dwg  
3/4/2011



PROJECT REFERENCE NO. <b>R-5215</b>	SHEET NO. <b>EC-10</b>
ROADWAY DESIGN ENGINEER 	
<b>Kimley-Horn and Associates, Inc.</b> © 2011 NC LICENSE #F-0102 4651 CHARLOTTE PARK DRIVE SUITE 300 CHARLOTTE, NC 28207-1911	

PROPOSED EROSION CONTROL INFORMATION	
	TEMPORARY DIVERSION DITCH
	DRAINAGE AREA
	SILT FENCE
	TEMPORARY SEDIMENT BAFFLES
	TEMPORARY SLOPE CALL OUT
	LIMITS OF DISTURBANCE
	TEMPORARY SLOPE DRAIN
	CONSTRUCTION ENTRANCE
	RIP RAP APRON
	FABRIC INSERT INLET PROTECTION
	STONE INLET PROTECTION
	ROCK CHECK DAM
	TEMPORARY SPOT GRADE
	FLOW DIRECTION



STABILIZE ALL SLOPES 3:1 AND GREATER WITH MULCH AND SEED AS NOTED IN EROSION CONTROL DETAILS

STABILIZE ALL FILL SLOPES WITH AN ELEVATION CHANGE GREATER THAN 10' WITH A TEMPORARY SILT DITCH AS SHOWN IN EROSION CONTROL DETAILS.

STABILIZE AS SHOWN (UNLESS OTHERWISE NOTED) ON THIS PLAN WITHIN 14 DAYS OF COMPLETION PER EROSION CONTROL NOTES

ACREAGE SUMMARY  
PROJECT DISTURBED  
AREA = 13.0 1/2 ACRES

