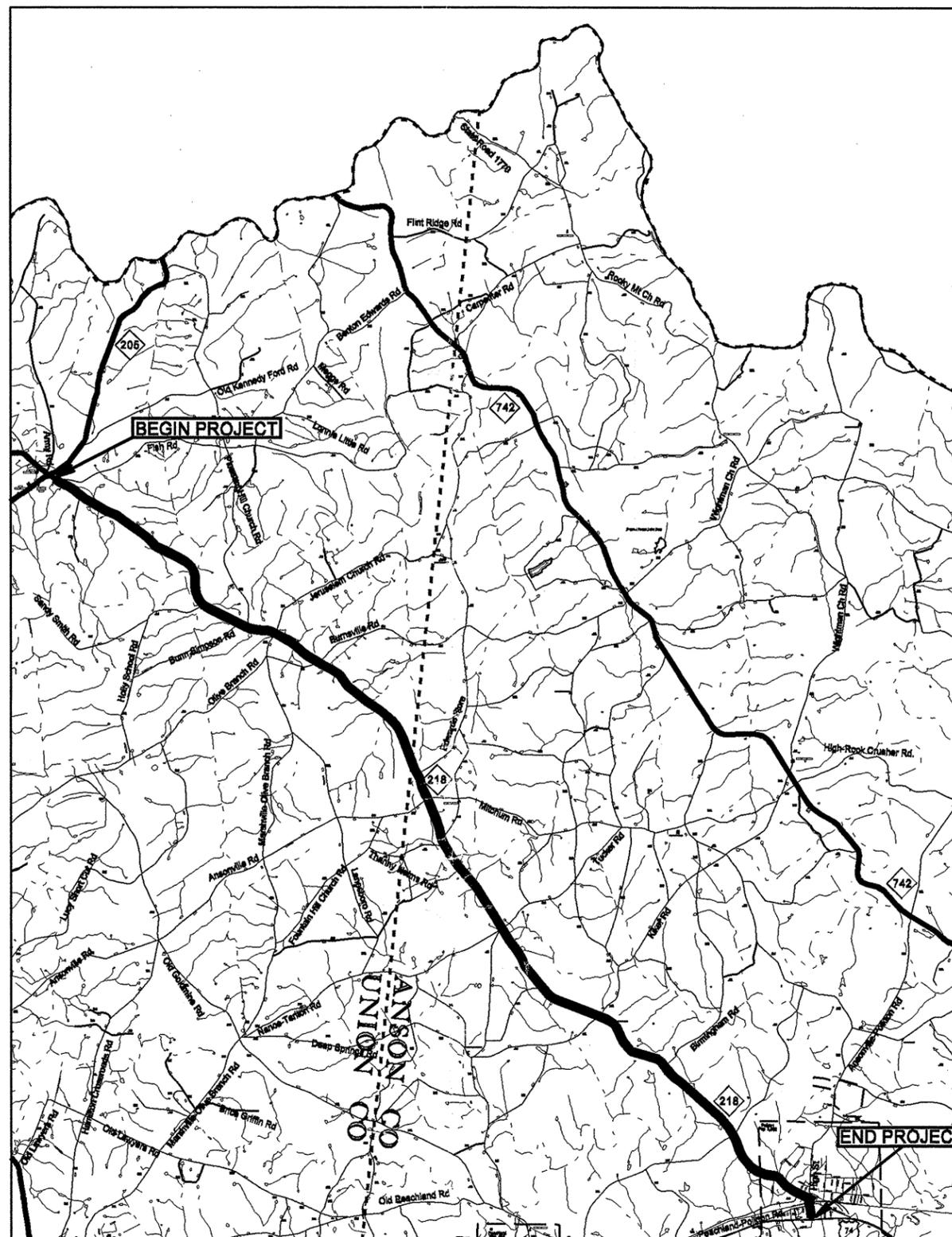


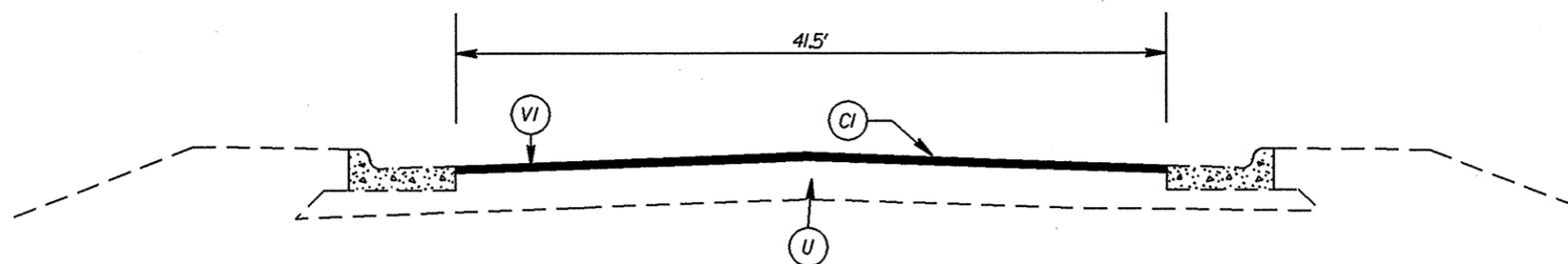
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-514C	1	4
F.A. PROJECT NO. STM-0218(10)			

VICINITY MAP

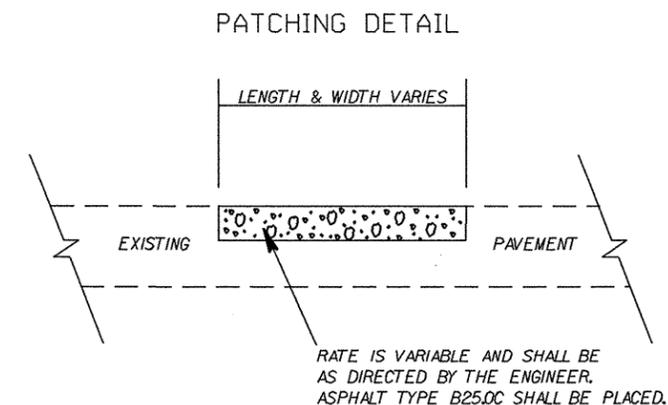
NC 218 FROM THE PAVEMENT JOINT 560' EAST OF NC 205 TO US 74 (13.6 MILES)



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-514C	2	4
F.A. PROJECT NO. STM-0218(10)			

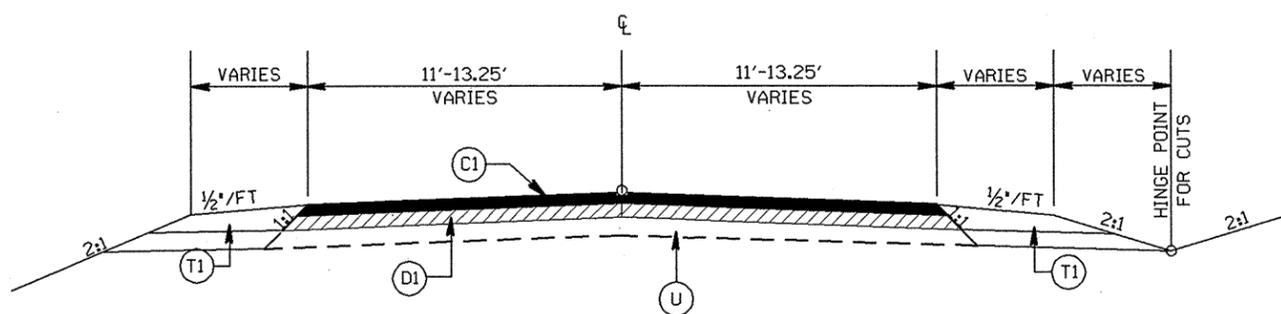


TYPICAL SECTION NO. 2
STA. 698+00 TO 705+90



PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 3" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" IN DEPTH



TYPICAL SECTION NO. 1
STA. 0+00 TO 698+00
STA. 705+90 TO 718+00

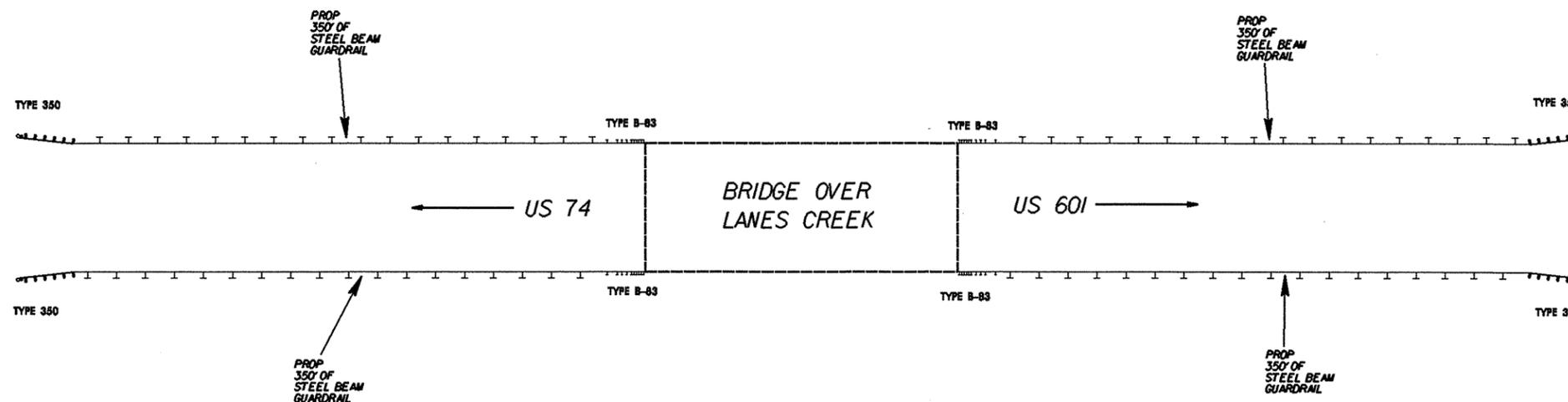
NOTES: MILL APPROX. 150' FROM THE CONCRETE BRIDGE DECKS AS WELL AS STA. 0+00 & 698+00 ON NC 218 TO PROVIDE SMOOTH TIE-INS.

INCIDENTAL MILLING TO BE USED AT INTERSECTIONS

NC 218 FROM THE PAV'T JOINT
560' EAST OF NC 205 TO US 74
(SECTION C)

SCALE	-NA-		REVISIONS
DATE	01/09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5114C	3	4
F.A. PROJECT NO. STM-0218(10)			



NOTE: REPLACED DAMAGED STEEL BEAM GUARDRAIL AT RICHARDSON CREEK BRIDGE AS DIRECTED BY ENGINEER.

REMOVE APPROXIMATLY 1650' OF EXISTING GUARDRAIL AT LANES CREEK BRIDGE AND REPLACE WITH NEW STEEL BEAM GUARDRAIL.

FROM PAV'T JOINT 560' EAST OF NC 205 TO US 74. (SECTION C)

SCALE	-NA-		REVISIONS
DATE	1-27-09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5114C	4	4
42297.3.ST3		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	BORROW CY	FOUNDATION CONDITIONING MATERIAL TONS	15" RCP, CLASS III LF	18" RCP, CLASS III LF	24" RCP, CLASS III LF	30" RCP, CLASS III LF	PIPE COLLARS CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONST. SMI	DITCHING LF	1½" MILLING SY	0" TO 4.5" MILLING SY	INCIDENTAL MILLING SY
R-5114C	Mecklenburg	1	NC 218	FROM PAVT JOINT 560' EAST OF NC 205 TO US 74	1 & 2	13.6	23.5	180	60	16	44	16	4	7	4,080	27.20	2,000	3,700	3,600	946
TOTAL FOR PROJ NO. R-5114C						13.6		180	60	16	44	16	4	7	4,080	27.20	2,000	3,700	3,600	946
GRAND TOTAL						13.6		180	60	16	44	16	4	7	4,080	27.20	2,000	3,700	3,600	946

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	6" DRIVEWAY SY	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	STEEL BEAM GUARDRAIL LF	GUARDRAIL ANCHOR UNITS, TYPE 350 EA	REMOVE EXISTING GUARDRAIL LF	GUARDRAIL ANCHOR UNITS, TYPE B-83 EA	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TONS	SEDIMENT CONTROL STONE TONS	MATTING FOR EROSION CONTROL SY
R-5114C	Mecklenburg	1	NC 218	FROM PAVT JOINT 560' EAST OF NC 205 TO US 74	40,968	21,824	1,925	1,309	5,465	400	1	1	1,525	4	1,725	4	1,500	500	150	2,500
TOTAL FOR PROJ NO. R-5114C					40,968	21,824	1,925	1,309	5,465	400	1	1	1,525	4	1,725	4	1,500	500	150	2,500
GRAND TOTAL					40,968	21,824	1,925	1,309	5,465	400	1	1	1,525	4	1,725	4	1,500	500	150	2,500

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	COIR FIBER MAT SY	WATTLE LF	POLYACRYLAMIDE (PAM) LBS	SEED & MULCHING AC
R-5114C	Mecklenburg	1	NC 218	FROM PAVT JOINT 560' EAST OF NC 205 TO US 74	150	3,250	40.0	14.0
TOTAL FOR PROJ NO. R-5114C					150	3,250	40.0	14.0
GRAND TOTAL					150	3,250	40.0	14.0

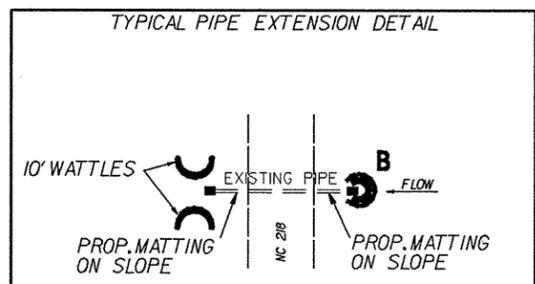
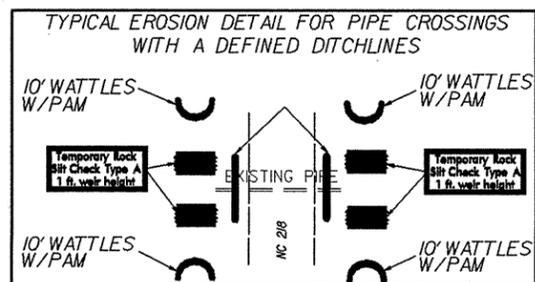
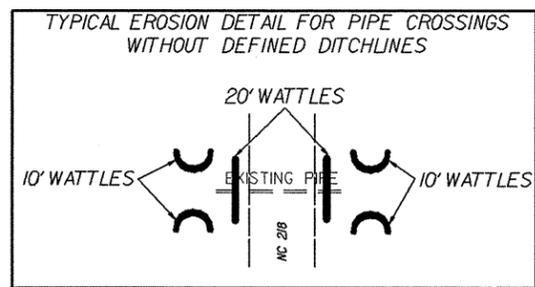
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4400000000-E	4685000000-E	4686000000-E	4705000000-E	4710000000-E	4721000000-E	4810000000-E	4900000000-N
					TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M EA	4" YELLOW PAINT LF	YELLOW & YELLOW MARKERS EA
R-5114C	Mecklenburg	1	NC 218	FROM PAVT JOINT 560' EAST OF NC 205 TO US 74	1	142,200	131,800	100	200	4	143,616	950
TOTAL FOR PROJ NO. R-5114C					1	142,200	131,800	100	200	4	143,616	950
GRAND TOTAL					1	142,200	131,800	100	200	4	143,616	950

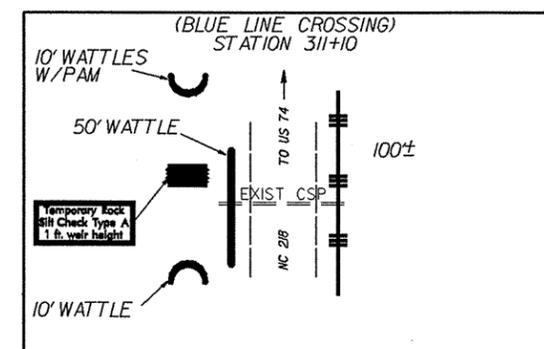
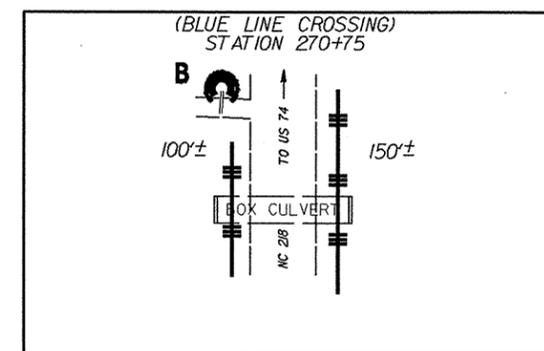
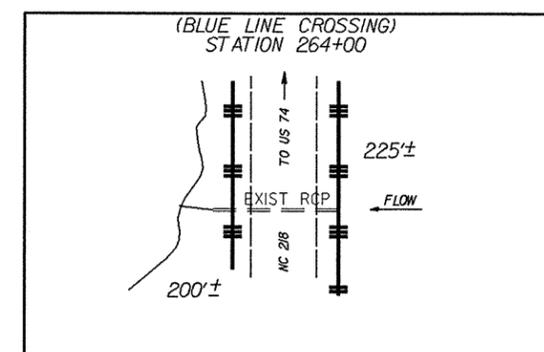
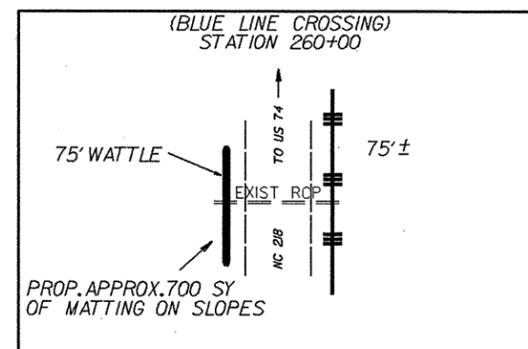
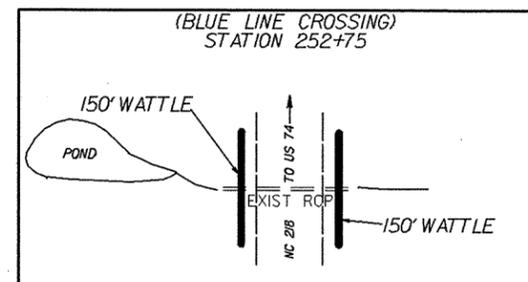
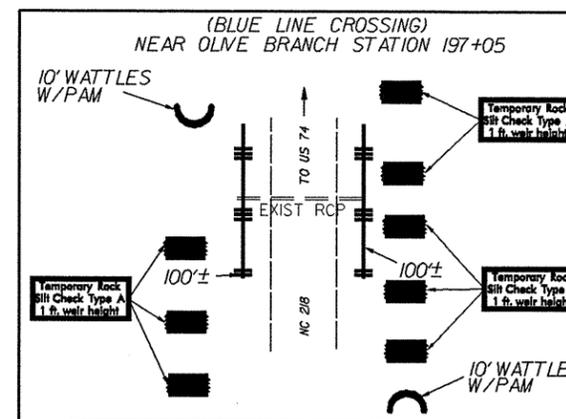
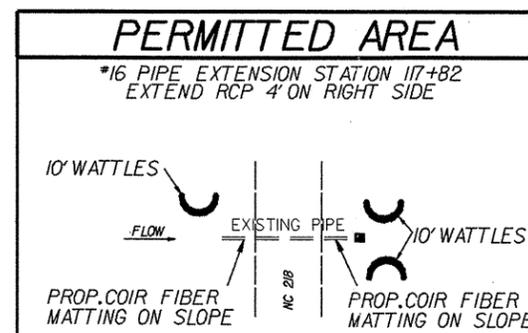
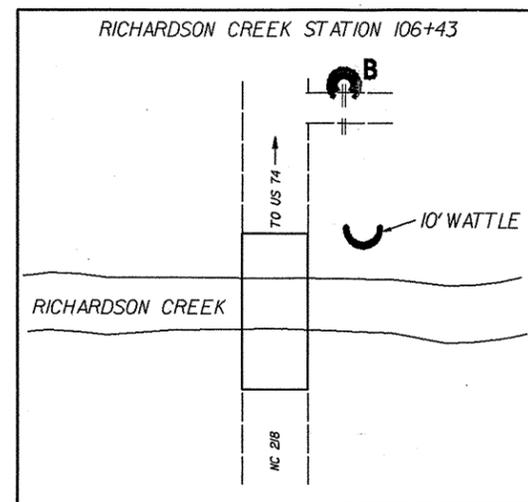
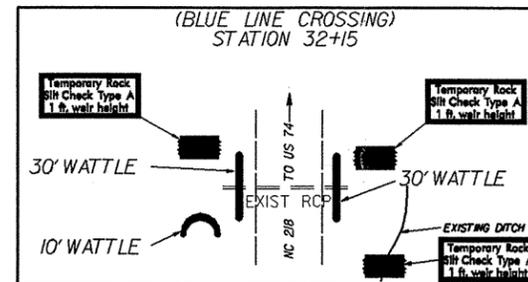
EROSION DETAILS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-514C	EC-2	
F.A. PROJECT NO. STM-0218(10)			

GENERAL DETAILS



SITE SPECIFIC DETAILS



NOTES: FIELD MODIFICATIONS MAY BE NECESSARY AS DIRECTED BY THE ENGINEER.
WATTLE LENGTHS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
EROSION CONTROL MATTING SHALL BE USED IN THE CONSTRUCTION OF DITCHLINE WATTLES. SEE SHEET EC-4
POLYACRYLAMIDE (PAM) SHOULD NOT BE USED ON WATTLES THAT WILL OUTLET DIRECTLY TO JURISDICTIONAL STREAMS.

NC 218 FROM THE PAV'T JOINT
560' EAST OF NC 205 TO US 74
(SECTION C)

SCALE	-NA-
DATE	03/09
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

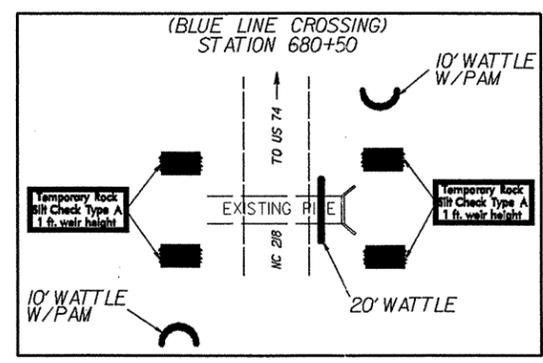
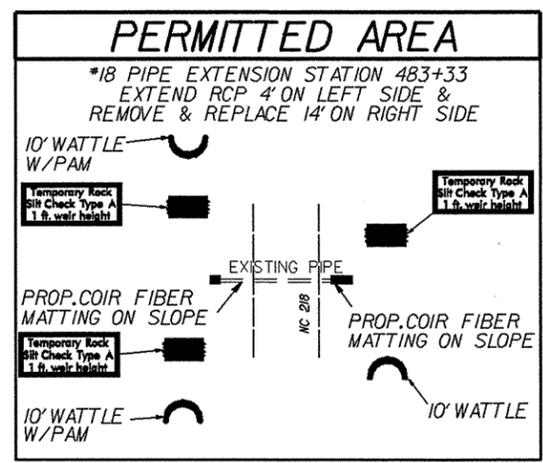
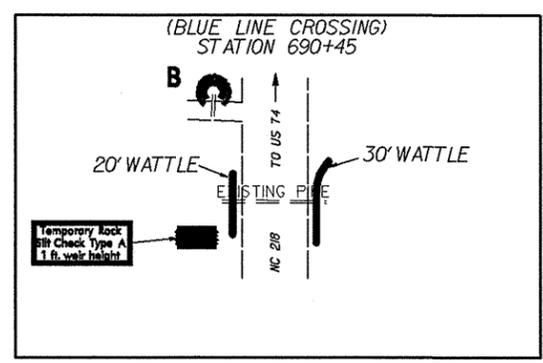
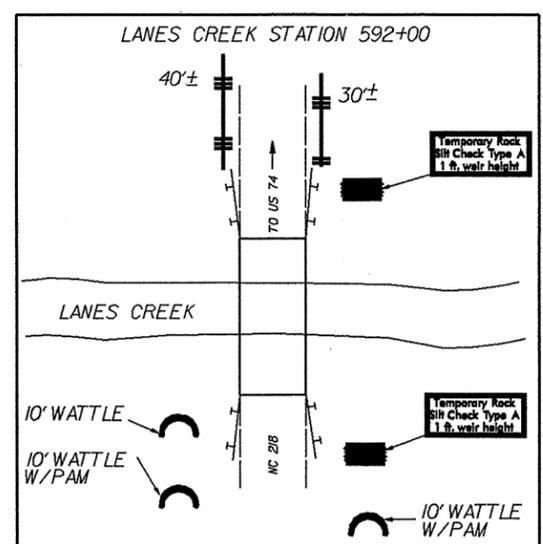
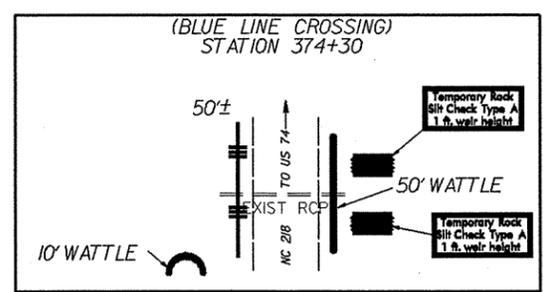


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-514C	EC-3	
F.A. PROJECT NO. STM-0218(10)			

EROSION DETAILS

SITE SPECIFIC DETAILS



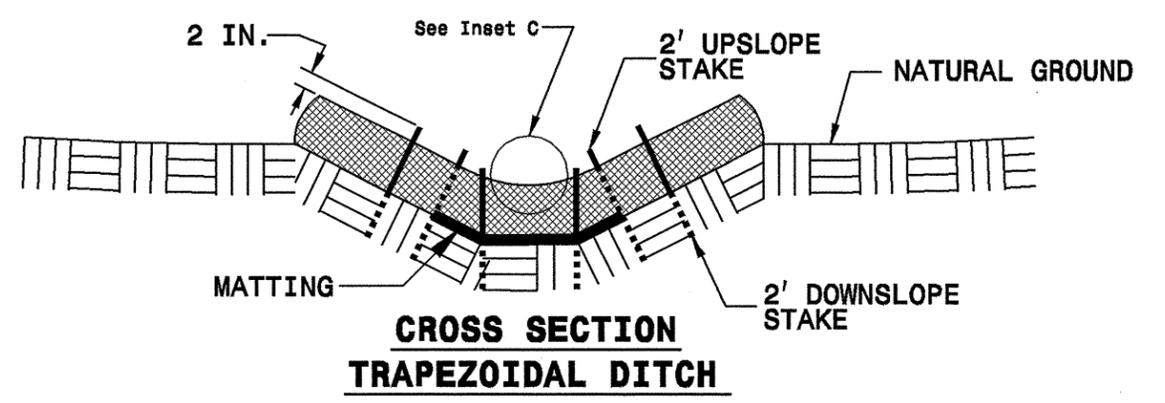
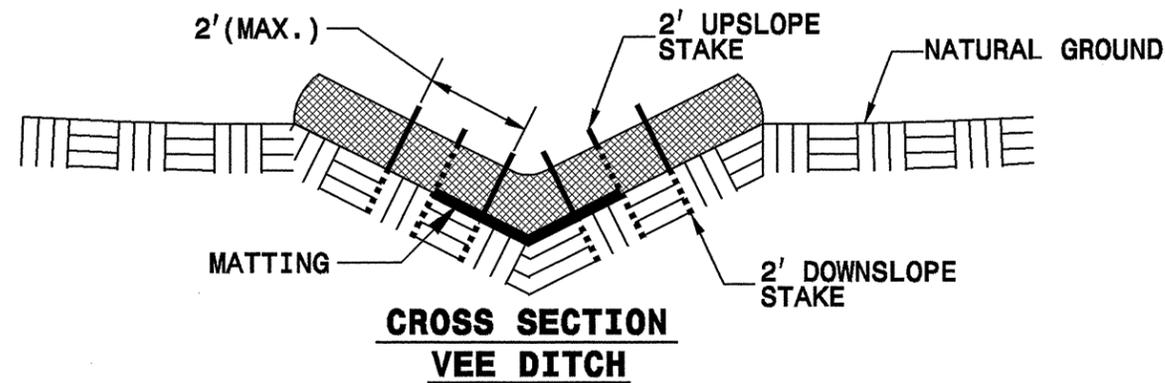
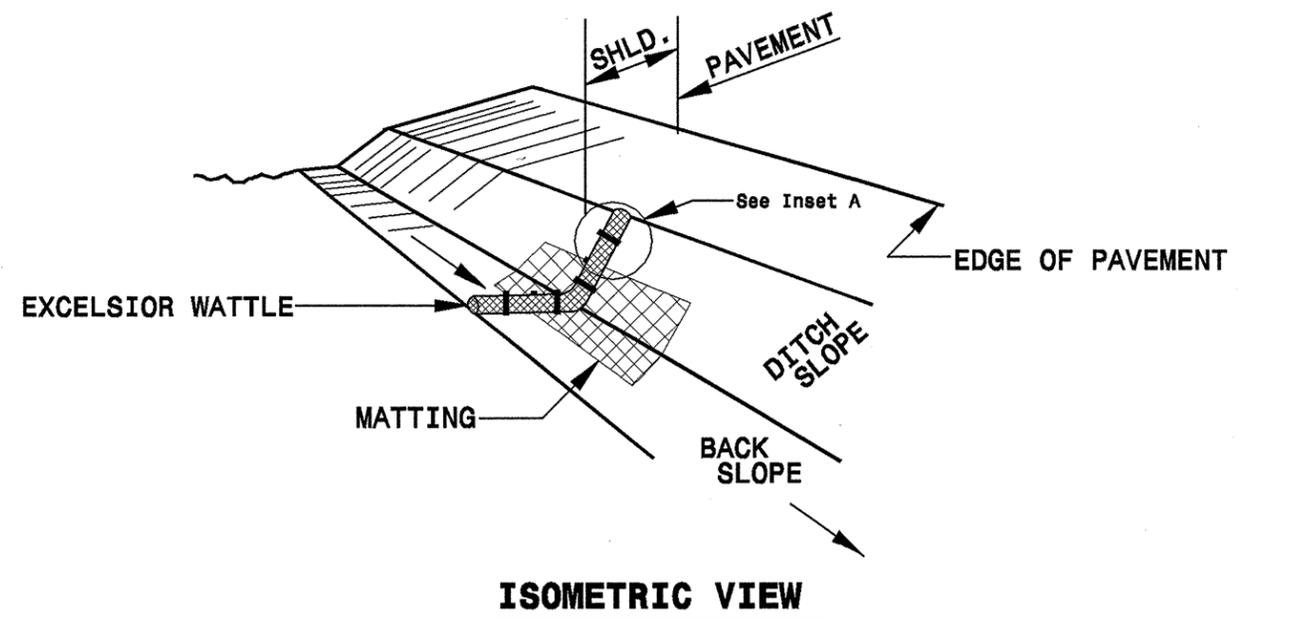
NOTES: FIELD MODIFICATIONS MAY BE NECESSARY AS DIRECTED BY THE ENGINEER.
WATTLE LENGTHS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
EROSION CONTROL MATTING SHALL BE USED IN THE CONSTRUCTION OF
DITCHLINE WATTLES. SEE SHEET EC-4
POLYACRYLAMIDE (PAM) SHOULD NOT BE USED ON WATTLES
THAT WILL OUTLET DIRECTLY TO JURISDICTIONAL STREAMS.

NC 218 FROM THE PAV'T JOINT 560' EAST OF NC 205 TO US 74 (SECTION C)		
SCALE	-NA-	REVISIONS
DATE	03/09	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

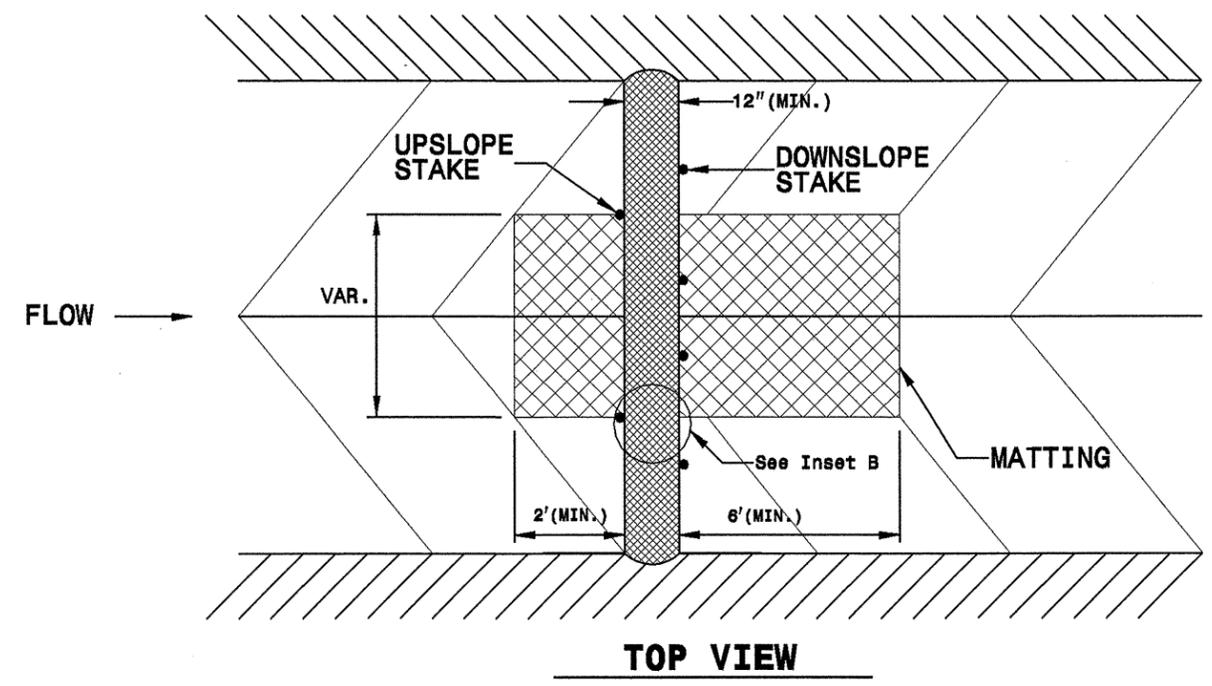
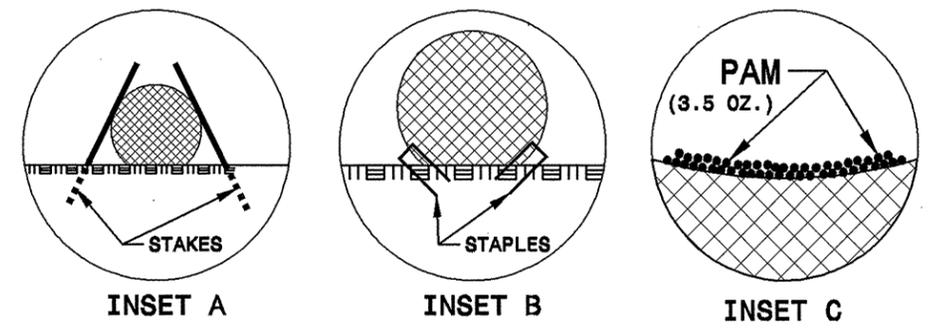


PROJECT REFERENCE NO.		SHEET NO.	
R-5114C		EC-4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

WATTLE WITH POLYACRYLAMIDE DETAIL

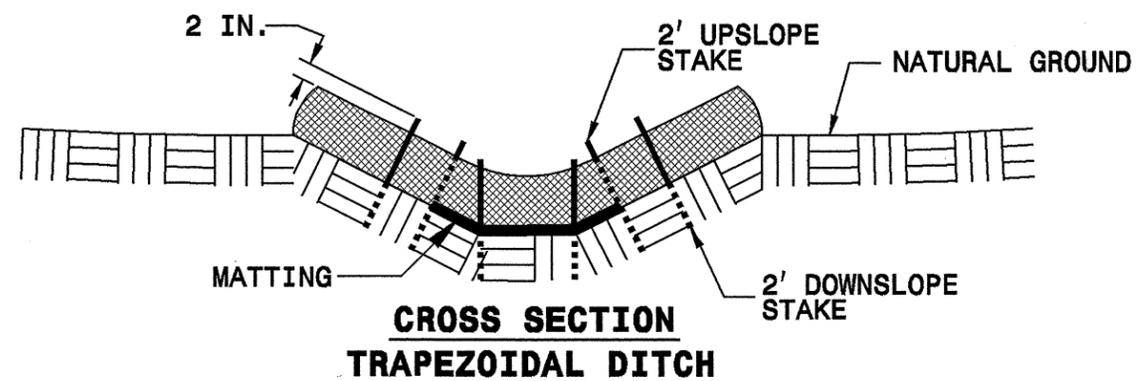
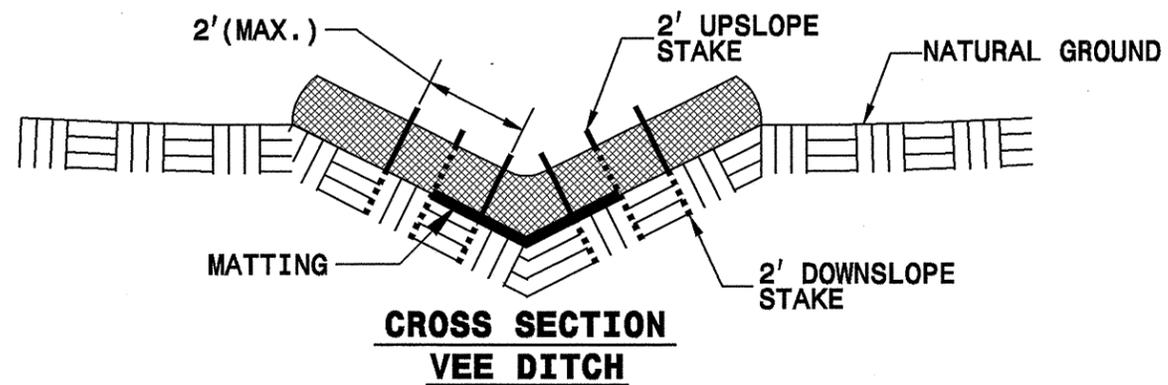
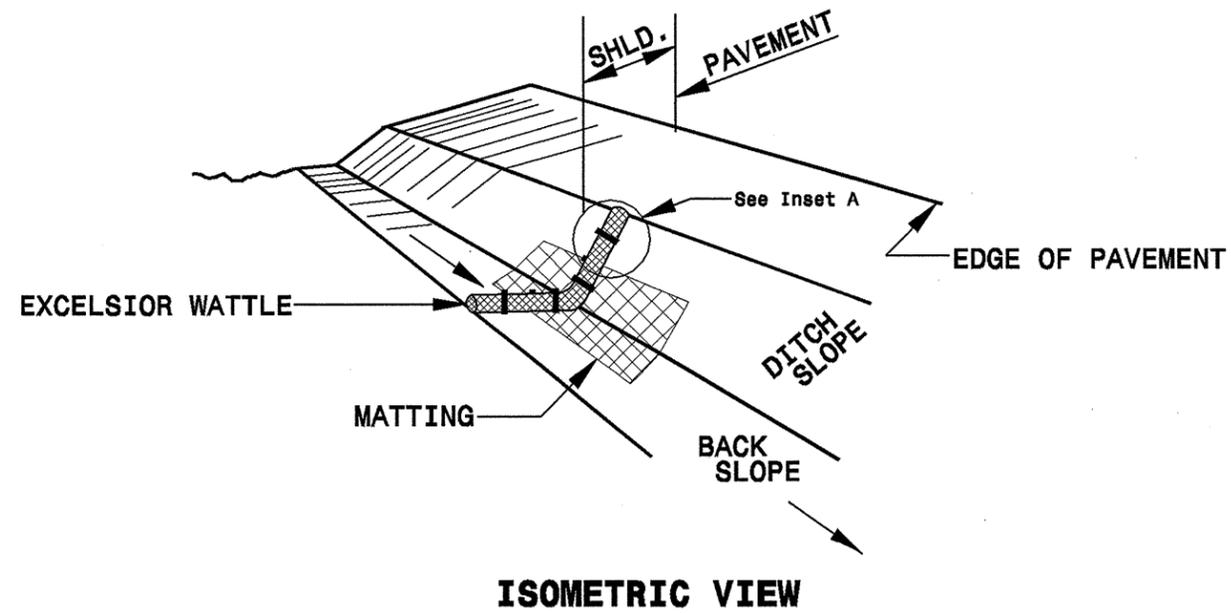


- NOTES:**
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. R-5114C		SHEET NO. EC-5	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

