

09, 08/25/24

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | HI-0016 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 49987.1.1 | 0074244 | PE | |
| 49987.3.1 | 0074244 | CONST | |
| | | | |
| | | | |
| | | | |
| | | | |

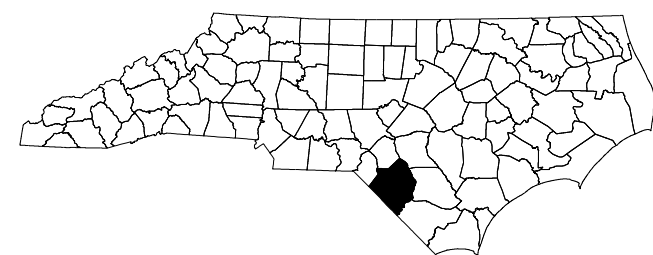
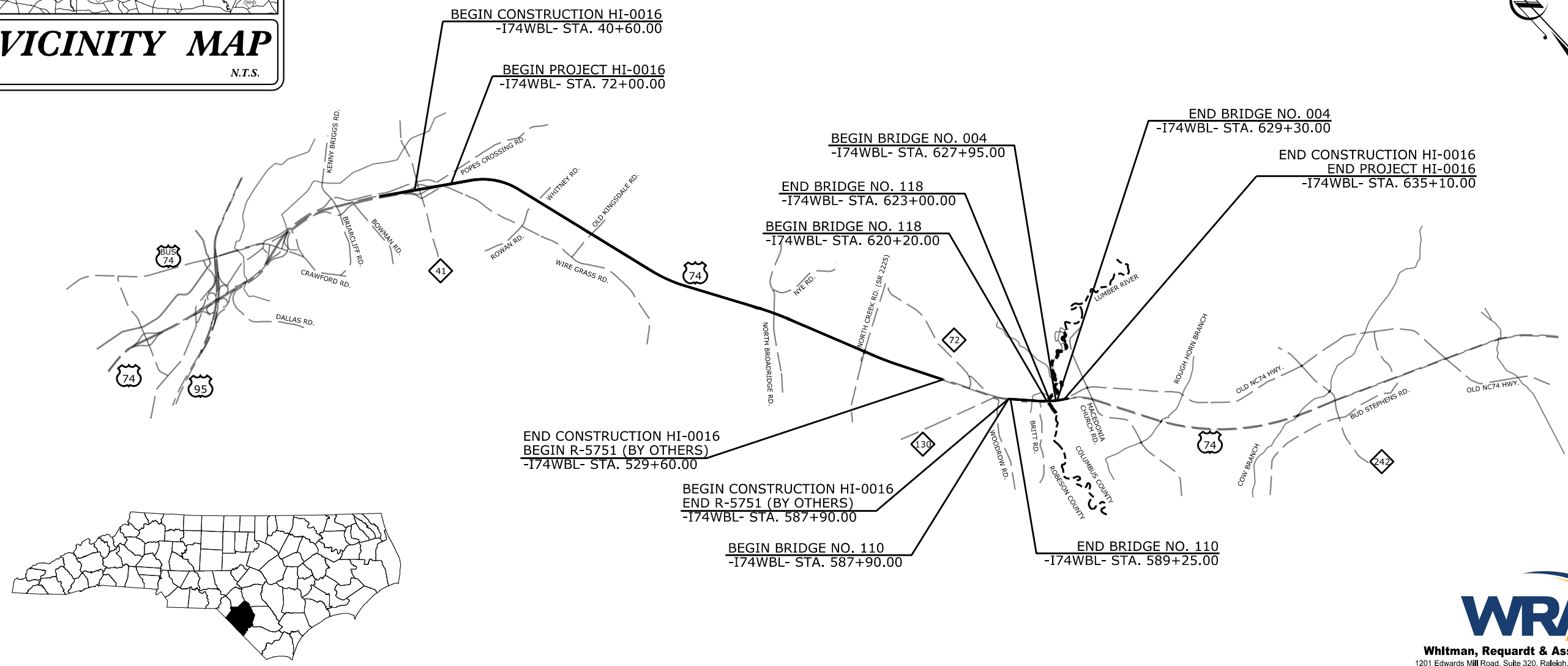
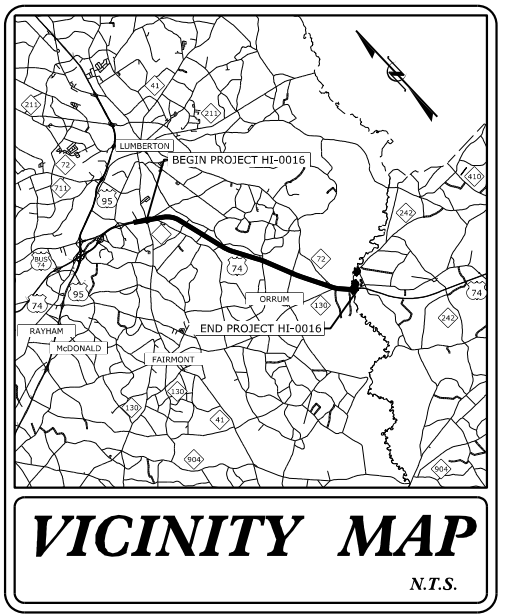
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON & COLUMBUS COUNTIES

**LOCATION: US-74 (FUTURE I-74) 1 MILE EAST OF NC 41
TO 0.26 MILES EAST OF COLUMBUS COUNTY LINE**
**TYPE OF WORK: DRAINAGE, PAVEMENT REHABILITATION,
AND BRIDGE PRESERVATION**

TIP PROJECT: HI-0016

CONTRACT: C204930



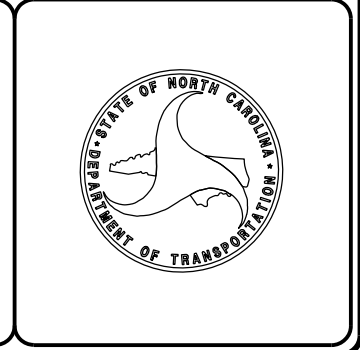
| DESIGN DATA |
|--|
| AADT2020 = 16,500 |
| V = 70 MPH FROM NC41 TO JUST WEST OF SR 2225 (NORTH CREEK ROAD) |
| V = 60 MPH FROM SR 2225 (NORTH CREEK ROAD) TO THE COLUMBUS COUNTY LINE |
| FUNC CLASS = FREEWAY /FUTURE INTERSTATE |

| PROJECT LENGTH |
|---|
| LENGTH ROADWAY TIP PROJECT HI-0016 = 9.457 MI |
| LENGTH STRUCTURE TIP PROJECT HI-0016 = 0.229 MI |
| TOTAL LENGTH OF TIP PROJECT HI-0016 = 9.686 MI |

| Prepared for the Office of: DIVISION OF HIGHWAYS 431 Transportation Dr, Fayetteville NC, 28301 | |
|--|--|
| 2024 STANDARD SPECIFICATIONS | |
| RIGHT OF WAY DATE: N/A | ALEX HENDERSON NCDOT CONTACT PROJECT MANAGER |
| LETTING DATE: MAY 28, 2024 | DOUGLAS SAUNDERS, PE PROJECT ENGINEER |
| | WILLIAM TILLITT, PE PROJECT DESIGN ENGINEER |

4/8/2024

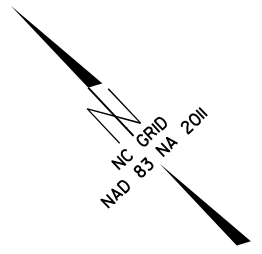
Designed by:
William E. Tillitt
SIGNATURE: WILLIAM TILLITT, P.E.



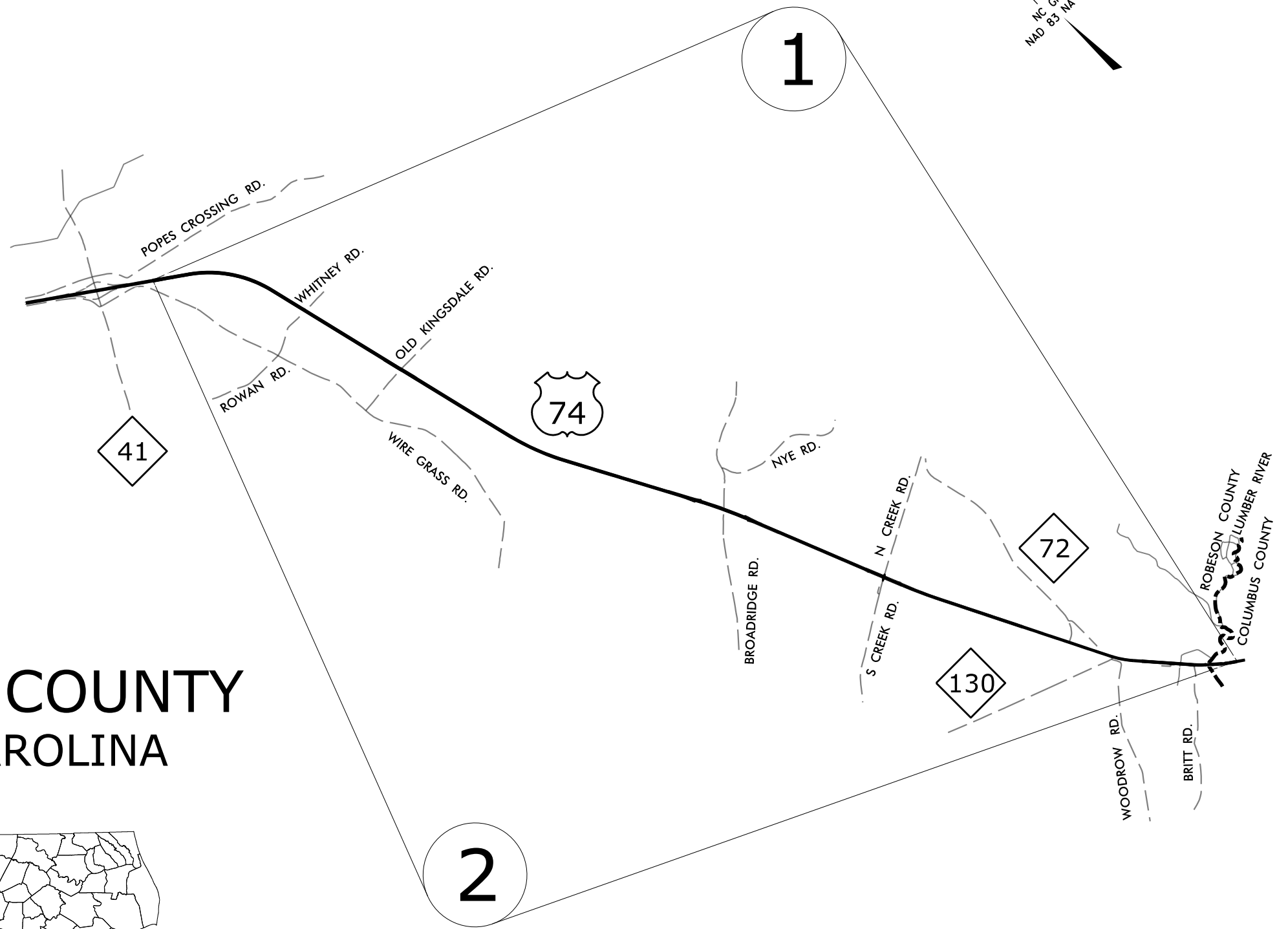
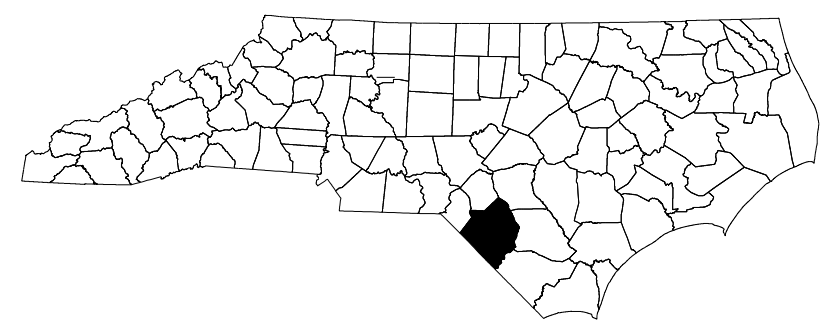
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W.Tillitt



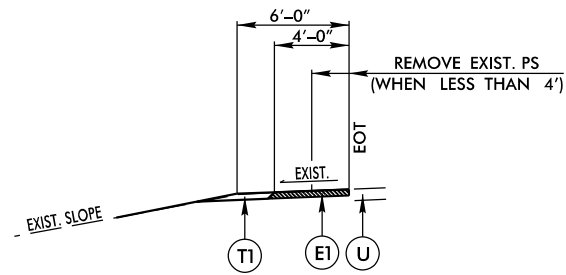
Whitman, Reardon & Associates, LLP
 1201 Edwards Mill Road, Suite 320, Raleigh, North Carolina 27606



ROBESON COUNTY NORTH CAROLINA



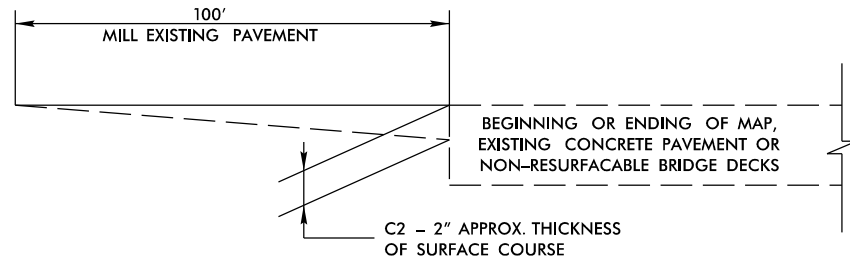
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**DETAIL A
FULL DEPTH PAVED SHOULDER WIDENING
(INSIDE/MEDIAN)
STEP 1**

TO BE USED IN CONJUNCTION WITH T.S. 1 & 2
 I-74 EB MEDIAN STA. 72+00.00 TO 142+00.00 +/-
 I-74 EB MEDIAN STA. 142+00.00 TO 195+67.00 +/-
 I-74 EB MEDIAN STA. 212+28.00 TO 352+50.00 +/-

FOR FINAL MILLING AND RESURFACING FILL
 SEE TYPICAL SECTIONS 1 & 2



INCIDENTAL MILLING AT PAVEMENT TIE-INS

NOTES:

*PAVEMENT REHABILITATION FOR RAMP ENTRANCE AND EXIT LANES WILL INCLUDE ADDITIONAL WIDTH FOR AREAS OF GORES. (SEE PLANS FOR LIMITS)

**PAVEMENT REHABILITATION FOR MEDIAN CROSSOVERS AND LEFT TURN LANES WILL INCLUDE ADDITIONAL WIDTH. (SEE PLANS FOR LIMITS) LIMITS OF TYPICAL SECTIONS INDICATED ON THE PLANS ARE APPROXIMATE. TYPICAL SECTION LIMITS AND TRANSITIONS TO BE VERIFIED BY THE ENGINEER IN FIELD.

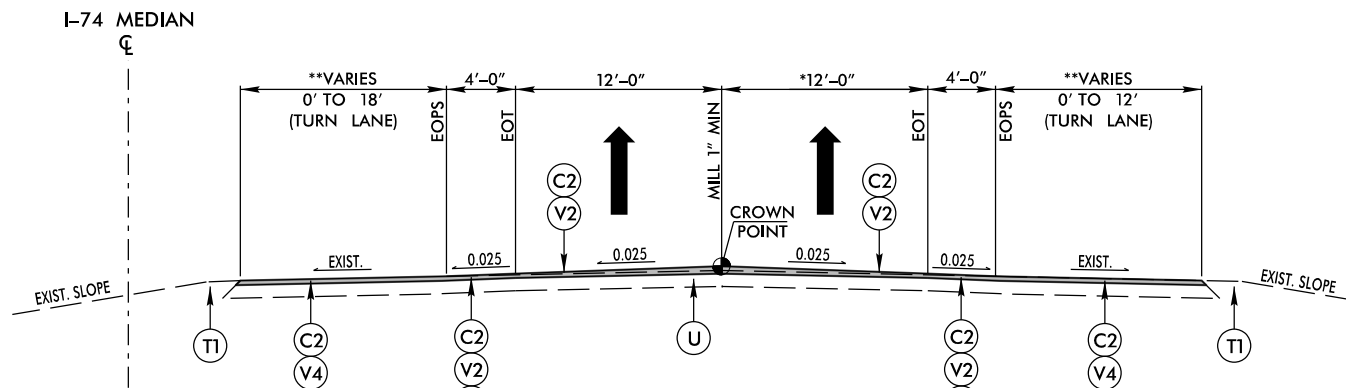
PAVE SHOULDERS FOR VEHICLE PULL-OFF AREA AS DIRECTED BY ENGINEER.

SURVEY EXISTING CURVE FROM APPROXIMATE STATION 88+35 TO 131+70 PROVIDE SURVEY TO NCDOT ENGINEER FOR DEPARTMENT/PEF REPRESENTATIVE TO COMPUTE RESURFACING PROFILE TO BE PROVIDED FOR YOUR USE PRIOR TO PAVING.

WITH RECOMMENDED RESURFACING GRADE PROVIDED, CONTRACTOR SHALL STAKE EVERY 50 FEET THROUGHOUT EACH CURVE FOR EACH LIFT. ITEM SHALL BE PAID FOR UNDER CONSTRUCTION SURVEYING.

EXISTING CROSS-SECTIONS WERE DEVELOPED FOR WEDGING QUANTITIES FROM LIDAR ONLY AND ARE PROVIDED FOR INFORMATIONAL BIDDING PURPOSES ONLY. FINAL QUANTITIES MAY VARY.

MILLED SECTIONS SHALL BE RESURFACED IN THE SAME NIGHT.



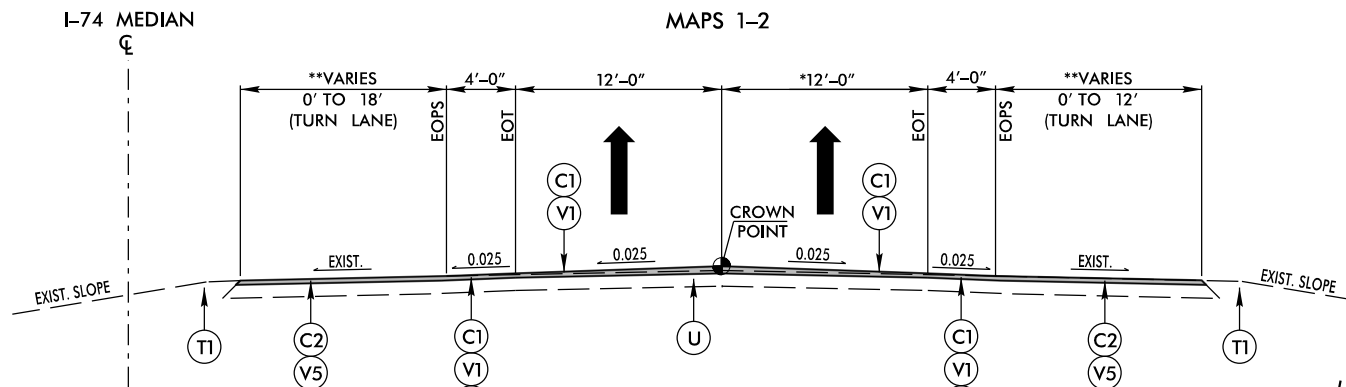
USE V2 (1" TO 2" MILLING) TO MILL A 0.025 SE GRADE

TYPICAL SECTION NO. 1

I-74 EB STA. 147+50.00 TO 352+40.00
 I-74 EB STA. 404+25.00 TO 447+55.00
 I-74 EB STA. 468+70.00 TO 529+25.00
 I-74 EB STA. 589+05.00 (END BRIDGE) TO 620+05.00 (BEGIN BRIDGE)
 I-74 EB STA. 622+85.00 (END BRIDGE) TO 627+80.00 (BEGIN BRIDGE)
 I-74 EB STA. 629+20.00 (END BRIDGE) TO 635+00.00

I-74 WB STA. 147+90.00 TO 345+85.00
 I-74 WB STA. 395+05.00 TO 447+90.00
 I-74 WB STA. 469+05.00 TO 529+60.00

I-74 WB STA. 589+25.00 (END BRIDGE) TO 620+15.00 (BEGIN BRIDGE)
 I-74 WB STA. 623+00.00 (END BRIDGE) TO 627+95.00 (BEGIN BRIDGE)
 I-74 WB STA. 629+30.00 (END BRIDGE) TO 635+10.00

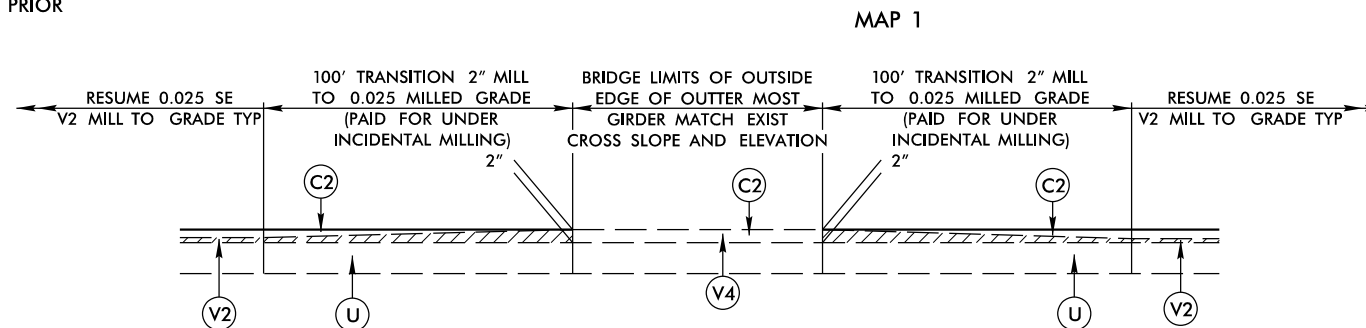


USE V1 (0.75" TO 1.5" MILLING) TO MILL A 0.025 SE GRADE

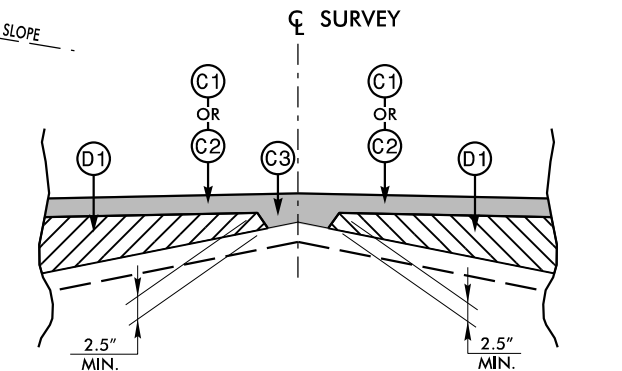
TYPICAL SECTION NO. 2

I-74 EB STA. 72+00.00 TO 147+50.00
 I-74 EB STA. 352+40.00 TO 404+25.00
 I-74 EB STA. 447+55.00 TO 468+70.00

I-74 WB STA. 72+00.00 TO 147+90.00
 I-74 WB STA. 345+85.00 TO 395+05.00
 I-74 WB STA. 447+90.00 TO 469+05.00



MILLING UNDER BRIDGES



PAVEMENT REHABILITATION LIMITS LEGEND

SEE PLAN SHEETS

NOT TO SCALE

| PAVEMENT SCHEDULE | |
|-------------------|--|
| C1 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD |
| C2 | PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YARD |
| C3 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2.0" IN DEPTH. |
| D1 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH. |
| E1 | PROP. APPROX. 7.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 855 LBS. PER SQ. YARD |
| T1 | SHOULDER RECONSTRUCTION |
| U | EXISTING ASPHALT PAVEMENT |
| V1 | 3/4" TO 1 1/2" MILLED ASPHALT PAVEMENT |
| V2 | 1" TO 2" MILLED ASPHALT PAVEMENT |
| V3 | MILLED RUMBLE STRIPS |
| V4 | 2" MILLING |
| V5 | 1.5" MILLING |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE. SEE SHOULDER WEDGE DETAIL.

| | |
|-------------|-----------|
| PROJECT NO. | SHEET NO. |
| HI-0016 | 3B-2 |

SUMMARY OF QUANTITIES - ROADWAY

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH | WIDTH | 000100000-N | 000400000-N | 010600000-E | 124500000-E | 126000000-E | 129700000-E | 129700000-E | 130800000-E | 130800000-E | | | | | |
|---------------------|---------|--------|--------------------|--|--------|-------|-----------|--------------------------------|---------------------------|--------|-------|--------------|------------------------|-------------------|-------------------------|---------------------------|--------------|--------------------|-----------------------|------------------|--------|-------|---------|---------|--|
| | | | | | | | | | | | | MOBILIZATION | CONSTRUCTION SURVEYING | BORROW EXCAVATION | SHOULDER RECONSTRUCTION | AGGREGATE SHOULDER BORROW | 1.5" MILLING | 2" MILLING | 0.75" TO 1.5" MILLING | 1" TO 2" MILLING | | | | | |
| | | | | | | | | | | | | LS | LS | CY | SMI | TON | SY | SY | SY | SY | | | | | |
| | | | | | | | | | | | | MI | FT | | | | | | | | | | | | |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 2.0 | 24 | | | | | | | 2,104 | | 126.067 | | | | | |
| | | 1 | US 74 WB 1.5" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | NO | NO | 9.2 | 24 | | | | | | 12,237 | | 52,048 | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 11.2 | 24 | | | | | | 12,181 | 2,913 | 52,767 | 124,107 | | | | | |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | | | | | 22.4 | | 1 | 1 | 1,570 | 32.83 | 6,555 | 24,418 | 5,017 | 104,815 | 250,174 | |
| | | | | | | | | | | | | | | | | 1 | 1 | 1,570 | 32.83 | 6,555 | 24,420 | 5,020 | 104,815 | 250,175 | |
| | | | | | | | | | | | | | | | | | | TOTAL FOR DRAINAGE | | 30 | | | | | |
| | | | | | | | | | | | | | | | | | | PROJECT TOTAL | | 1,600 | | | | | |

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH | WIDTH | 133000000-E | 149100000-E | 152300000-E | 157500000-E | 184000000-E | 188000000-E | 188000000-E | 300100000-N | 303000000-E | 304500000-E | | | | |
|---------------------|---------|--------|--------------------|--|--------|-------|-----------|--------------------------------|---------------------------|--------|-------|--------------------|---------------------------------------|------------------------------------|------------------------------|---|--|--|-----------------------------------|----------------------|-----------------------------------|-----|---|----------|-----|
| | | | | | | | | | | | | INCIDENTAL MILLING | ASPHALT CONC BASE COURSE, TYPE B25.0C | ASPHALT CONC SURFACE COURSE, S9.5C | ASPHALT BINDER FOR PLANT MIX | MILLED RUMBLE STRIPS (ASPHALT CONCRETE) | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C (WEDGING COURSE) | ASPHALT CONC SURFACE COURSE, TYPE S9.5C (WEDGING COURSE) | IMPACT ATTENUATOR UNIT, TYPE TL-3 | STEEL BEAM GUARDRAIL | STEEL BEAM GUARDRAIL, SHOP CURVED | | | | |
| | | | | | | | | | | | | SY | TONS | TONS | TONS | LF | TONS | TONS | EA | LF | LF | | | | |
| | | | | | | | | | | | | MI | FT | | | | | | | | | | | | |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 2.0 | 24 | | | 3,110 | 225 | 15,600 | 330 | 435 | | | | | | | |
| | | 1 | US 74 WB 1.5" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | NO | NO | 9.2 | 24 | | | 13,748 | 811 | 85,090 | | | | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 11.2 | 24 | | | 5,210 | 21,479 | 1,543 | 96,060 | 330 | 435 | | | | | | |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | | | | | 22.4 | | 5,000 | 5,210 | 38,337 | 2,579 | 196,750 | 660 | 870 | 2 | 26,162.5 | 200 |
| | | | | | | | | | | | | | | | | 5,000 | 5,210 | 38,340 | 2,580 | 196,750 | 660 | 870 | 2 | 26,162.5 | 200 |

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH | WIDTH | 315000000-N | 319500000-N | 321000000-N | 321500000-N | 328700000-N | 331700000-N | 336000000-E | 350300000-E | 350900000-E | 351500000-E | | | | |
|---------------------|---------|--------|--------------------|--|--------|-------|-----------|--------------------------------|---------------------------|--------|-------|----------------------------|--------------------------------|---------------------------------|----------------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------|-----------------------------------|-----------------------------------|--------|-------|-----|----|
| | | | | | | | | | | | | ADDITIONAL GUARDRAIL POSTS | GUARDRAIL END UNITS, TYPE AT-1 | GUARDRAIL END UNITS, TYPE CAT-1 | GUARDRAIL ANCHOR UNITS, TYPE III | GUARDRAIL END UNITS, TYPE TL-3 | GUARDRAIL ANCHOR UNITS, TYPE B-77 | REMOVE EXISTING GUARDRAIL | WOVEN WIRE FENCE, 47" FABRIC | 4" TIMBER FENCE POSTS, 7'-6" LONG | 5" TIMBER FENCE POSTS, 8'-0" LONG | | | | |
| | | | | | | | | | | | | EA | EA | EA | EA | EA | EA | LF | LF | EA | EA | | | | |
| | | | | | | | | | | | | MI | FT | | | | | | | | | | | | |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 2.0 | 24 | | | | | | | | | | | | | | |
| | | 1 | US 74 WB 1.5" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | NO | NO | 9.2 | 24 | | | | | | | | | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | NO | NO | 11.2 | 24 | | | | | | | | | | | | | | |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | | | 11.2 | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | | | | | 22.4 | | 25 | 1 | 12 | 4 | 26 | 30 | 27,870 | 2,220 | 131 | 50 |
| | | | | | | | | | | | | | | | | 25 | 1 | 12 | 4 | 26 | 30 | 27,870 | 2,220 | 131 | 50 |

PROJECT NO.

SHEET NO.

HI-0016

38-3

SUMMARY OF QUANTITIES - DRAINAGE

| PROJECT NO | COUNTY | DRAINAGE ITEM NO | PLAN SHEET | ROUTE | Hydraulics Recommendation | Median 2GI structure depth | 0106000000-E | 0318000000-E | 0321000000-E | 0366000000-E | 0372000000-E | 0378000000-E | 0384000000-E | 0390000000-E | 0588000000-E | 1220000000-E | 2253000000-E |
|------------|--------|------------------|------------|----------------------------|--|----------------------------|-------------------|--|------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------|--------------|
| | | | | | | | BORROW EXCAVATION | FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES | FOUNDATION CONDITIONING GEOTEXTILE | 15" RC PIPE CULVERTS, CLASS III | 18" RC PIPE CULVERTS, CLASS III | 24" RC PIPE CULVERTS, CLASS III | 30" RC PIPE CULVERTS, CLASS III | 36" RC PIPE CULVERTS, CLASS III | 18" CS PIPE CULVERTS, 0.064" THICK | INCIDENTAL STONE BASE | PIPE COLLARS |
| | | | | | | | CY | TON | SY | LF | LF | LF | LF | LF | TON | | CY |
| | | 1 | 4 | 46+00 I74EBL Rt. | Remove and replace 8' of 18" rcp on each end of pipe. Extend with concrete collars. | n/a | 0.3 | | 0.0 | | | | | | 16 | | 0.8930 |
| | | 2 | 4 | 66+50 I74EBL It. (median) | Remove and replace existing 2GI. Remove and replace 4' of 18" rcp with concrete collar | 4.1' | 0.7 | 0.4 | 1.3 | | 4 | | | | | | 0.4465 |
| | | 3 | 4 | 70+05 I74EBL Rt. | Remove and replace 12' of 24" rcp with 2 concrete collars. Remove and replace existing 2GI. Remove and replace 8' of 15" rcp with concrete collar. Replace 8' of 6' wide conc ditch each side of 2GI | n/a | 0.4 | 1.3 | 4.0 | | | 12 | | | | | 1.1052 |
| | | 4 | 4 | 77+40 I74EBL It. (median) | Remove and replace existing 2GI. Remove and replace 8' of 15" rcp with concrete collar. Replace 8' of 6' wide conc ditch each side of 2GI | 5.0' | 0.8 | 0.8 | 2.7 | | 8 | | | | | | 0.3990 |
| | | 5 | 5 | 101+90 I74EBL It. (median) | Remove and replace existing 2GI. Remove and replace 8' of 15" rcp with concrete collar | 3.2' | 0.5 | 0.8 | 2.7 | | 8 | | | | | | 0.3990 |
| | | 6 | 5 | 105+90 I74EBL It. (median) | replace concrete apron. Remove and replace 8' of 15" rcp with concrete collar | 4.6' | 0.7 | 0.8 | 2.7 | | 8 | | | | | | 0.3990 |
| | | 7 | 5 | 124+15 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 30" rcp with concrete collar on each side of structure. | 3.3' | 0.7 | 0.8 | 2.7 | | | | 8 | | | | 1.3120 |
| | | 8 | 5 | 128+25 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 30" rcp with concrete collar on each side of structure. | 3.3' | 0.7 | 0.8 | 2.7 | | | | 8 | | | | 1.3120 |
| | | 8A | 5 | 135+00 I74EBL It. (median) | Replace concrete apron. | | | | | | | | | | | | |
| | | 9 | 6 | 150+00 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 24" rcp with concrete collar on each side of structure. | 7.4' | 1.4 | 0.8 | 2.7 | | | 8 | | | | | 1.1052 |
| | | 10 | 6 | 170+45 I74EBL It. (median) | Replace concrete apron. | 2.6' | | | | | | | | | | | |
| | | 11 | 6 | 192+62 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 1.8 | 0.3 | 0.4 | 1.3 | | 4 | | | | | | 0.3990 |
| | | 12 | 6 | 199+75 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 2.8' | 0.4 | 0.4 | 1.3 | | 4 | | | | | | 0.3990 |
| | | 12A | 6 | 203+75 I74EBL It. (median) | Replace concrete apron. | | | | | | | | | | | | |
| | | 13 | 7 | 211+10 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 8' of 24" rcp with concrete collar on north side of structure. Remove and replace 4' of 24" rcp with concrete collar on south side of structure. | 3.9' | 0.7 | 1.3 | 4.0 | | | 12 | | | | | 1.1052 |
| | | 14 | 7 | 215+60 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 2.3' | 0.4 | 0.4 | 1.3 | | 4 | | | | | | 0.4465 |
| | | 15 | 7 | 222+50 I74EBL It. (median) | Replace concrete apron | 3.0' | | | | | | | | | | | |
| | | 16 | 7 | 227+80 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 12' of 30" rcp with concrete collar on north side of structure. Remove and replace 4' of 30" rcp with concrete collar on south side of structure. | 5.2' | 1.1 | 1.7 | 5.3 | | | | 16 | | | | 1.3120 |
| | | 17 | 7 | 234+60 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 2.1' | 0.4 | 0.4 | 1.3 | | 4 | | | | | | 0.4465 |
| | | 18 | 7 | 241+10 I74EBL It. (median) | Replace concrete apron. Remove and replace 8' of 36" rcp with concrete collar on north side of structure | 5.8' | 1.3 | | 0.0 | | | | | 8 | | | 0.7640 |
| | | 19 | 7 | 247+40 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar on east side and 4' of 18" rcp with concrete collar on south side | 3.2' | 0.5 | 0.8 | 2.7 | | 4 | 4 | | | | | 0.8455 |
| | | 20 | 7 | 255+30 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 1.8' | 0.3 | 0.4 | 1.3 | | 4 | | | | | | 0.3990 |
| | | 21 | 7 | 264+25 I74EBL It. (median) | Remove and replace 8' of 15" rcp with 2 concrete collars | min depth | 0.3 | 0.8 | 2.7 | | 8 | | | | | | 0.7980 |
| | | 22 | 7 | 277+75 I74EBL It. (median) | Replace concrete apron. | 6.1' | 1.5 | | | | | | | | | | |
| | | 23 | 8 | 296+35 I74EBL It. (median) | Replace concrete apron. | 5.3' | 1.3 | | | | | | | | | | |
| | | 23A | 8 | 317+00 I74EBL It. (median) | Replace concrete apron. | | | | | | | | | | | | |
| | | 24 | 8 | 321+75 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 3.2' | 0.5 | 0.4 | 1.3 | | 4 | | | | | | 0.4465 |
| | | 25 | 8 | 331+30 I74EBL It. (median) | Replace concrete apron. | 4.8' | 1.2 | | | | | | | | | | |
| | | 26 | 8 | 338+25 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 3.2' | 0.5 | 0.4 | 1.3 | | 4 | | | | | | 0.4465 |
| | | 26A | 8 | 351+00 I74EBL It. (median) | Replace concrete apron. | | | | | | | | | | | | |
| | | 27 | 9 | 419+15 I74EBL It. (median) | Replace concrete apron. | 3.5' | | | | | | | | | | | |
| | | 28 | 10 | 456+08 I74EBL It. (median) | Adjust 2GI structure depth 1.25' higher, regrade ditch +/- 25' on either side of box to accommodate increase structure height. | 2.8' | 11.1 | | | | | | | | | | |
| | | 29 | 10 | 467+30 I74EBL It. (median) | Replace concrete apron. | 4.5' | | | | | | | | | | | |
| | | 30 | 10 | 486+20 I74EBL It. (median) | Replace concrete apron. | 3.4' | | | | | | | | | | | |
| | | 31 | 12 | 605+00 I74EBL It. (median) | Replace concrete apron. | | | | | | | | | | | | |
| | | | | | | | SAY | | | | | | | | | | |
| | | | | | | | 27.9 | 14.4 | 45.3 | 48 | 24 | 32 | 32 | 8 | 16 | 250 | 15.1786 |
| | | | | | | | TOTAL | 30 | 16 | 50 | 48 | 24 | 32 | 8 | 16 | 250 | 15.5 |

49987.3.1

Robeson

PROJECT NO.

HI-0016

SHEET NO.

38-4

SUMMARY OF QUANTITIES - DRAINAGE & EROSION CONTROL FOR DRAINAGE

| PROJECT NO. | COUNTY | DRAINAGE ITEM NO. | PLAN SHEET | ROUTE | Hydraulics Recommendation | Median 2GI structure depth | 228600000-N | 230800000-E | 236500000-N | 247300000-N | 261900000-E | 281500000-N | 600000000-E | 601200000-E | 602900000-E | 604200000-E | 607101000-E | 608400000-E | 611700000-N | 611750000-N |
|-------------|--------|-------------------|------------|----------------------------|---|----------------------------|-----------------------------|-----------------------------|-----------------------------------|---|-------------------------|---------------------------|----------------------|------------------------|--------------|---------------------|-------------|--------------------|------------------------------|----------------------------|
| | | | | | | | MASONRY DRAINAGE STRUCTURES | MASONRY DRAINAGE STRUCTURES | FRAME WITH TWO GRATES, STD 840.22 | GENERIC DRAINAGE ITEM - CONCRETE APRON FOR DROP INLET | 4" CONCRETE PAVED DITCH | ADJUSTMENT OF DROP INLETS | TEMPORARY SILT FENCE | SEDIMENT CONTROL STONE | SAFETY FENCE | 1/4" HARDWARE CLOTH | WATTLE | SEEDING & MULCHING | RESPONSE FOR EROSION CONTROL | CONCRETE WASHOUT STRUCTURE |
| | | | | | | | EA | LF | EA | EA | SY | EA | LF | TON | LF | LF | LF | ACR | EA | EA |
| | | 1 | 4 | 46+00 I74EBL Rt. | Remove and replace 8' of 18" rcp on each end of pipe. Extend with concrete collars. | n/a | | | | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 2 | 4 | 66+50 I74EBL It. (median) | Remove and replace existing 2GI. Remove and replace 4' of 18" rcp with concrete collar | 4.1' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 3 | 4 | 70+05 I74EBL Rt. | Remove and replace 12' of 24" rcp with 2 concrete collars. Remove and replace existing 2GI. Remove and replace 8' of 15" rcp with concrete collar. Replace 8' of 6' wide conc ditch each side of 2GI. | n/a | | | | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 4 | 4 | 77+40 I74EBL It. (median) | Remove and replace existing 2GI. Remove and replace 8' of 15" rcp with concrete collar. | 5.0' | 1 | | 1 | | 5.3 | | | 5 | | 40 | 40 | 0.10 | | |
| | | 5 | 5 | 101+90 I74EBL It. (median) | replace concrete apron. Remove and replace 8' of 15" rcp with concrete collar. | 3.2' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 6 | 5 | 105+90 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 30" rcp with concrete collar on each side of structure. | 4.6' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 7 | 5 | 124+15 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 30" rcp with concrete collar on each side of structure. | 3.3' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 8 | 5 | 128+25 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 30" rcp with concrete collar on each side of structure. | 3.3' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 8A | 5 | 135+00 I74EBL It. (median) | Replace concrete apron. | | | | | 1 | | | | | | | | | | |
| | | 9 | 6 | 150+00 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 24" rcp with concrete collar on each side of structure. | 7.4' | 1 | 2.4 | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 10 | 6 | 170+45 I74EBL It. (median) | Replace concrete apron. | 2.6' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 11 | 6 | 192+62 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 1.8' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 12 | 6 | 199+75 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 2.8' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 12A | 6 | 203+75 I74EBL It. (median) | Replace concrete apron. | | | | | 1 | | | | | | | | | | |
| | | 13 | 7 | 211+10 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 8' of 24" rcp with concrete collar on north side of structure. Remove and replace 4' of 24" rcp with concrete collar on south side of structure. | 3.9' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 14 | 7 | 215+60 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 2.3' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 15 | 7 | 222+50 I74EBL It. (median) | Replace concrete apron. | 3.0' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 16 | 7 | 227+80 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 12' of 30" rcp with concrete collar on north side of structure. Remove and replace 4' of 30" rcp with concrete collar on south side of structure. | 5.2' | 1 | 0.2 | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 17 | 7 | 234+60 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 2.1' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 18 | 7 | 241+10 I74EBL It. (median) | Replace concrete apron. Remove and replace 8' of 36" rcp with concrete collar on north side of structure. | 5.8' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 19 | 7 | 247+40 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar on east side and 4' of 18" rcp with concrete collar on south side. | 3.2' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 20 | 7 | 255+30 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 15" rcp with concrete collar. | 1.8' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 21 | 7 | 264+25 I74EBL It. (median) | Remove and replace 8' of 15" rcp with 2 concrete collars. | min depth | | | | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 22 | 7 | 277+75 I74EBL It. (median) | Replace concrete apron. | 6.1' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 23 | 8 | 296+35 I74EBL It. (median) | Replace concrete apron. | 5.3' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 23A | 8 | 317+00 I74EBL It. (median) | Replace concrete apron. | | | | | 1 | | | | | | | | | | |
| | | 24 | 8 | 321+75 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 3.2' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 25 | 8 | 331+30 I74EBL It. (median) | Replace concrete apron. | 4.8' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 26 | 8 | 338+25 I74EBL It. (median) | Remove and replace 2GI. Remove and replace 4' of 18" rcp with concrete collar. | 3.2' | 1 | | 1 | | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 26A | 8 | 351+00 I74EBL It. (median) | Replace concrete apron. | | | | | 1 | | | | | | | | | | |
| | | 27 | 9 | 419+15 I74EBL It. (median) | Replace concrete apron. | 3.5' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 28 | 10 | 456+08 I74EBL It. (median) | Adjust 2GI structure depth 1.25' higher, regrade ditch +/- .25' on either side of box to accommodate increase structure height. | 2.8' | | | | | | 1 | | 5 | | 80 | 40 | 0.10 | | |
| | | 29 | 10 | 467+30 I74EBL It. (median) | Replace concrete apron. | 4.5' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 30 | 10 | 486+20 I74EBL It. (median) | Replace concrete apron. | 3.4' | | | | 1 | | | | 5 | | 40 | 40 | 0.10 | | |
| | | 31 | 12 | 605+00 I74EBL It. (median) | Replace concrete apron. | | | | | 1 | | | | | | | | | | |
| SAY | | | | | | | 16 | 2.6 | 16 | 15 | 5.3 | 1 | 400 | 150 | 300 | 1,240 | 1,200 | 3.00 | 7 | 10 |
| TOTAL | | | | | | | 16 | 2.6 | 16 | 15 | 6.0 | 1 | 400 | 150 | 300 | 1,250 | 1,200 | 3.0 | 7 | 10 |

49987.3.1

Robeson

| | |
|-------------|-----------|
| PROJECT NO. | SHEET NO. |
| HI-0016 | 3B-5 |

SIGNING QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | 4072000000-E | 4096000000-N | 4102000000-N | 4108000000-N | 4155000000-N |
|-------------|---------|--------|--------------------|--|--------|-------|-----------|--------|--------------------------------|-----------------------|-----------------------|-----------------------|------------------------------------|
| | | | | | | | | | SUPPORTS, 3-LB STEEL U-CHANNEL | SIGN ERECTION, TYPE D | SIGN ERECTION, TYPE E | SIGN ERECTION, TYPE F | DISPOSAL OF SIGN SYSTEM, U-CHANNEL |
| | | | | | | | | | MI | EA | EA | EA | EA |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD | 1 | 2 | 2WD | 2.0 | | | | | |
| | | 1 | US 74 WB 1.5" MILL | WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | 9.2 | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | 11.2 | | | | | |
| GRAND TOTAL | | | | | | | | | 250 | 3 | 4 | 1 | 4 |

WORK ZONE TRAFFIC CONTROL QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | 4400000000-E | 4423000000-N | 4424000000-N | 4434000000-N | 4430000000-N | 4600000000-N | 4600000000-N | 4600000000-N | 4600000000-N | |
|-------------|---------|--------|--------------------|--|--------|-------|-----------|--------|------------------------------|--|--|------------------------------------|--------------|--|--|---|--|--|
| | | | | | | | | | WORK ZONE SIGNS (STATIONARY) | GENERIC TRAFFIC CONTROL ITEM - WORK ZONE DIGITAL SPEED LIMIT SIGNS | GENERIC TRAFFIC CONTROL ITEM - WORK ZONE PRESENCE LIGHTING | SEQUENTIAL FLASHING WARNING LIGHTS | DRUMS | GENERIC TRAFFIC CONTROL ITEM - SINGLE LANE CLOSURE | GENERIC TRAFFIC CONTROL ITEM - RAMP/LOOP TRAFFIC CONTROL | GENERIC TRAFFIC CONTROL ITEM - RAMP/LOOP CLOSURES | GENERIC TRAFFIC CONTROL ITEM - CONNECTED LANE CLOSURE SYSTEM | |
| | | | | | | | | | MI | EA | EA | EA | EA | EA | EA | EA | EA | |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD | 1 | 2 | 2WD | 2.0 | | | | | | | | | | |
| | | 1 | US 74 WB 1.5" MILL | WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | 9.2 | | | | | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | 11.2 | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | 800 | 4 | 14 | 13 | 100 | 340 | 8 | 8 | 2 | |

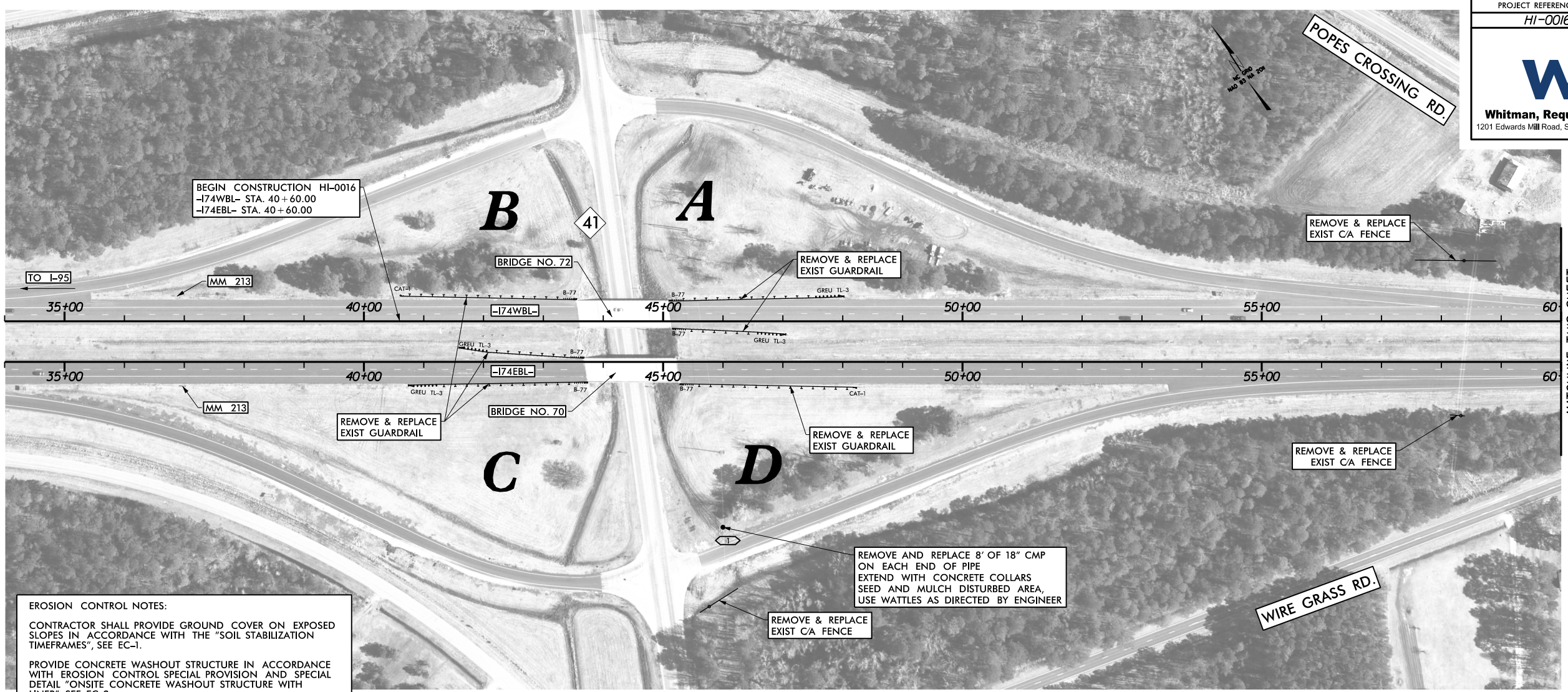
THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | 4688000000-E | | 4700000000-E | | 4720000000-E | | 4725000000-E | | | | | 4795000000-E | 4815000000-E | | |
|-------------|---------|--------|--------------------|--|--------|-------|-----------|--------|-------|--|---|---|---|---|--|--|---|--|---|---|--|--------------|----|----|
| | | | | | | | | | | THERMO PAVEMENT MARKING LINES (6", 90 MILS), WHITE | THERMO PAVEMENT MARKING LINES (6", 90 MILS), YELLOW | THERMO PAVEMENT MARKING LINES (12", 90 MILS), WHITE | THERMO PAVEMENT MARKING CHARACTER (90 MILS) | THERMO PAVEMENT MARKING SYMBOL (90 MILS), MERGE ARROW | THERMO PAVEMENT MARKING SYMBOL (90 MILS), LEFT ARROW | THERMO PAVEMENT MARKING SYMBOL (90 MILS), THRU ARROW | THERMO PAVEMENT MARKING SYMBOL (90 MILS), RIGHT ARROW | THERMO PAVEMENT MARKING SYMBOL (90 MILS), U-TURN ARROW | COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE 2 (24") | PAINT PAVEMENT MARKING LINES (6") WHITE | PAINT PAVEMENT MARKING LINES (6") YELLOW | | | |
| | | | | | | | | | | LF | LF | LF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD | 1 | 2 | 2WD | 2.0 | 24 | | | | | | | | | | | | | | | |
| | | 1 | US 74 WB 1.5" MILL | WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | 9.2 | 24 | | | | | | | | | | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | 11.2 | 24 | | | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | 160,560 | 125,170 | 5,930 | 16 | 8 | 18 | 24 | 15 | 6 | 165 | 163,180 | 125,940 | | | |
| | | | | | | | | | | 285,730 | | 5,930 | 16 | 71 | | | | | 165 | 289,120 | | | | |

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | 4825000000-E | 4835000000-E | 4840000000-N | 4845000000-N | | | | | 4846000000-E | | 4905100000-N | | | |
|-------------|---------|--------|--------------------|--|--------|-------|-----------|--------|-------|--|--|----------------------------------|--|---|---|--|---|---|--|--|----|--|--|
| | | | | | | | | | | PAINT PAVEMENT MARKING LINES (12") WHITE | PAINT PAVEMENT MARKING LINES (24") WHITE | PAINT PAVEMENT MARKING CHARACTER | PAINT PAVEMENT MARKING SYMBOL, MERGE ARROW | PAINT PAVEMENT MARKING SYMBOL, LEFT ARROW | PAINT PAVEMENT MARKING SYMBOL, THRU ARROW | PAINT PAVEMENT MARKING SYMBOL, RIGHT ARROW | PAINT PAVEMENT MARKING SYMBOL, U-TURN ARROW | POLYUREA PAVEMENT MARKING LINES WHITE (6", 30 MILS) | POLYUREA PAVEMENT MARKING LINES YELLOW (6", 30 MILS) | NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER | | | |
| | | | | | | | | | | LF | LF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | | |
| 49987.3.1 | Robeson | 1 | US 74 WB 2" MILL | FROM 1 MILE EAST OF 41 TO WHITNEY RD | 1 | 2 | 2WD | 2.0 | 24 | | | | | | | | | | | | | | |
| | | 1 | US 74 WB 1.5" MILL | WHITNEY RD TO EAST OF LUMBER RIVER BRIDGES | 2 | 2 | 2WD | 9.2 | 24 | | | | | | | | | | | | | | |
| | | 2 | US 74 EB 2" MILL | FROM 1 MILE EAST OF 41 TO EAST OF LUMBER RIVER BRIDGES | 1 | 2 | 2WD | 11.2 | 24 | | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | | | | 5,930 | 165 | 16 | 8 | 18 | 24 | 15 | 6 | 2,620 | 770 | 1,515 | | | |
| | | | | | | | | | | 5,930 | 165 | 16 | 71 | | | | | 3,390 | 1,515 | | | | |



Whitman, Reardon & Associates, LLP
 1201 Edwards Mill Road, Suite 320, Raleigh, North Carolina 27606



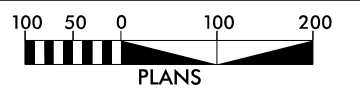
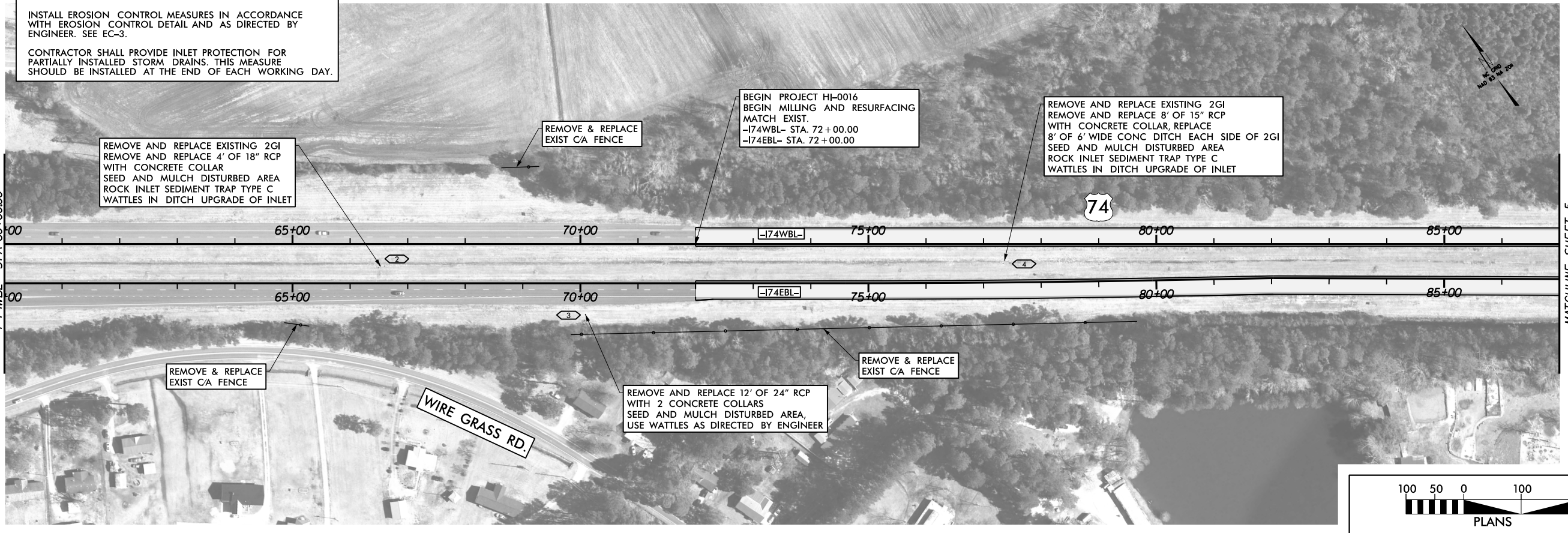
EROSION CONTROL NOTES:

CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-1.

PROVIDE CONCRETE WASHOUT STRUCTURE IN ACCORDANCE WITH EROSION CONTROL SPECIAL PROVISION AND SPECIAL DETAIL "ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER". SEE EC-2.

INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION CONTROL DETAIL AND AS DIRECTED BY ENGINEER. SEE EC-3.

CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.



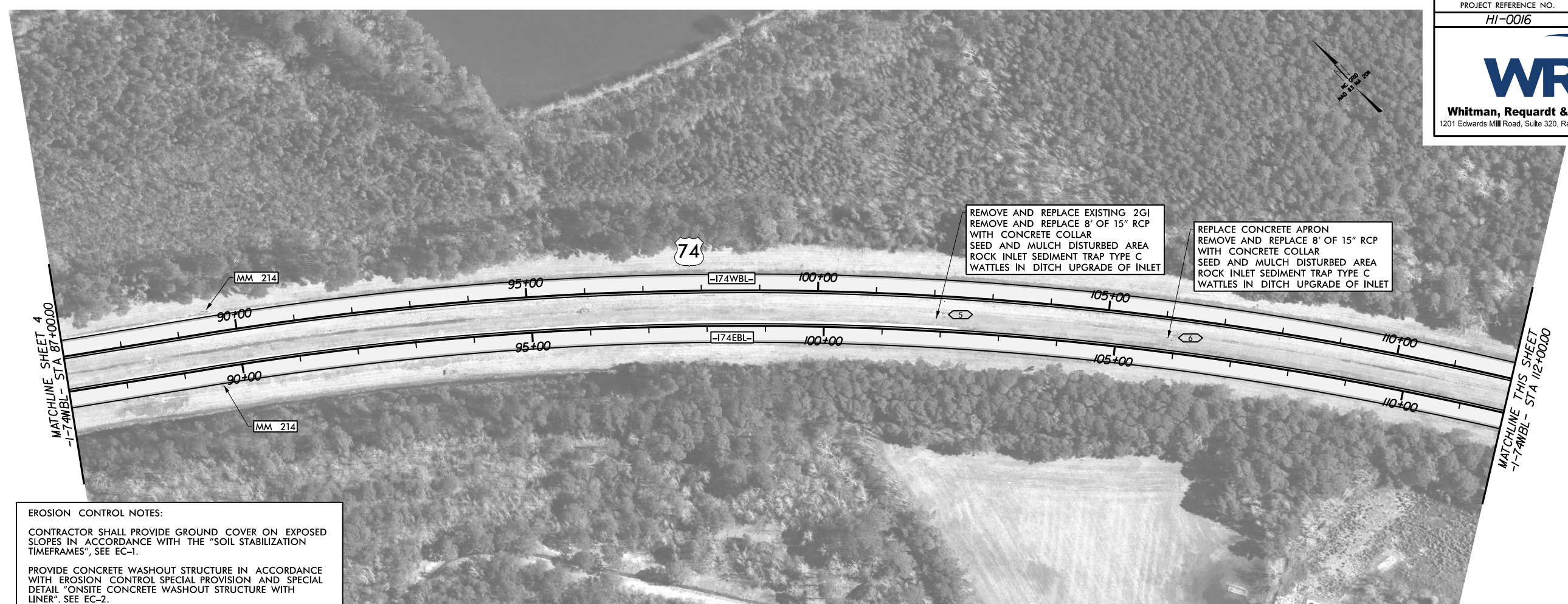
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MATCHLINE THIS SHEET
-1-74WBL- STA 60+00.00

MATCHLINE SHEET 5
-1-74WBL- STA 87+00.00



Whitman, Requardt & Associates, LLP
 1201 Edwards Mill Road, Suite 320, Raleigh, North Carolina 27606



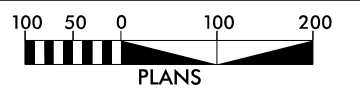
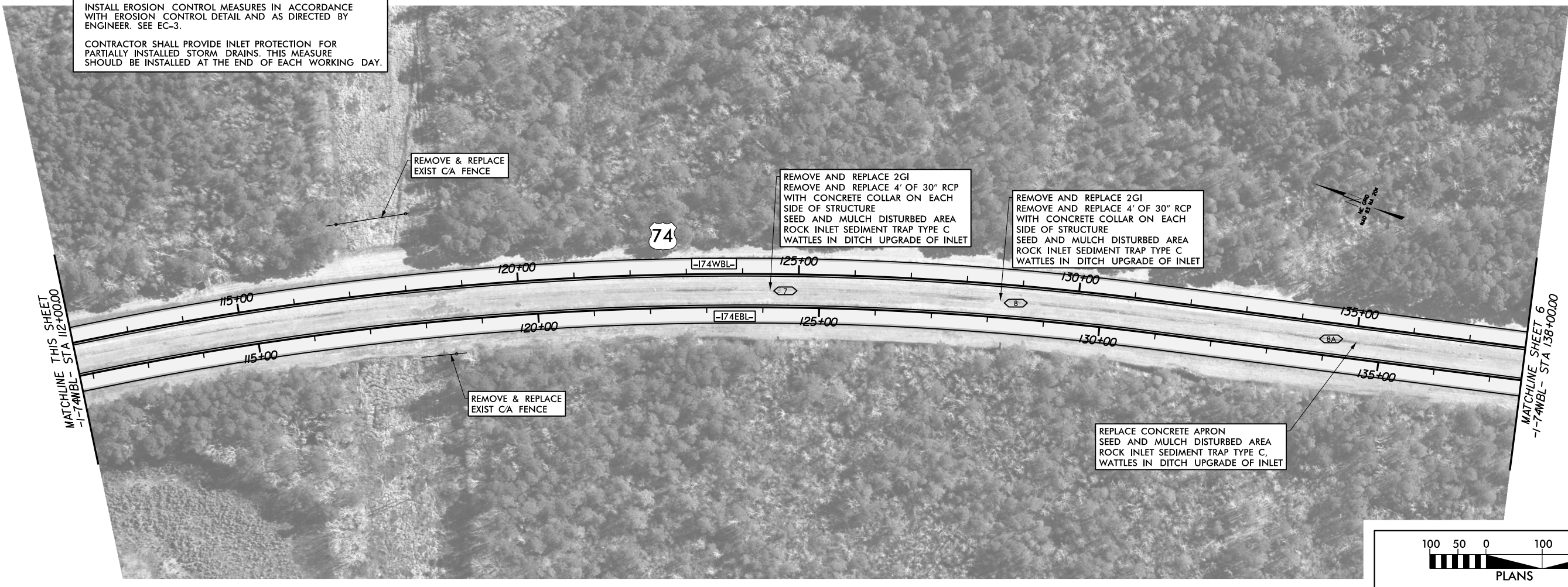
EROSION CONTROL NOTES:

CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-1.

PROVIDE CONCRETE WASHOUT STRUCTURE IN ACCORDANCE WITH EROSION CONTROL SPECIAL PROVISION AND SPECIAL DETAIL "ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER". SEE EC-2.

INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION CONTROL DETAIL AND AS DIRECTED BY ENGINEER. SEE EC-3.

CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.



8/17/99
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