TIP PROJECT: U-4439A&B

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4439A&B	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ONSLOW COUNTY

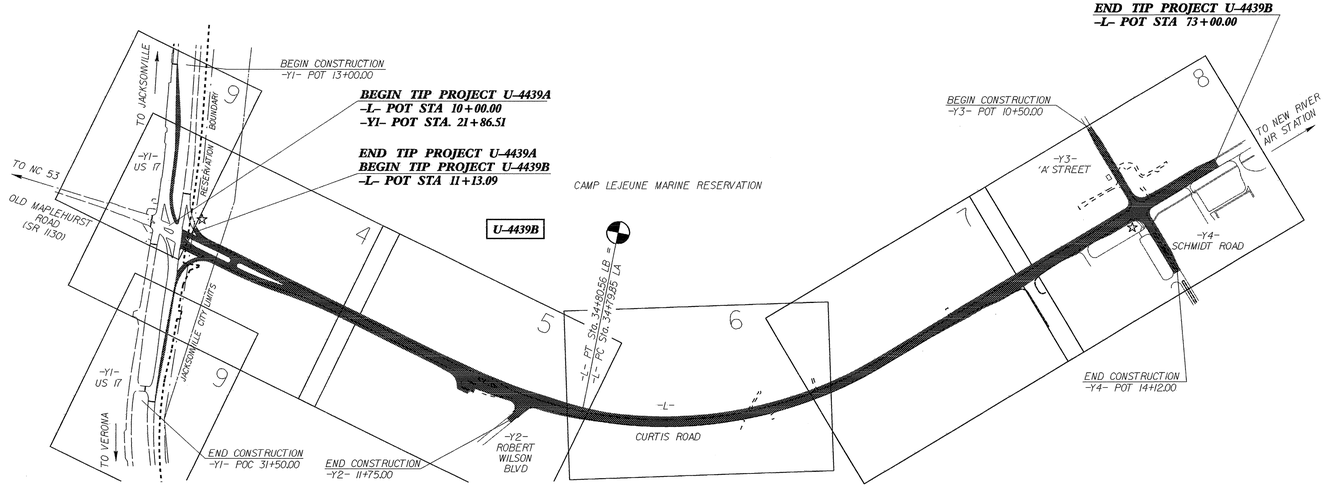
LOCATION:

U-4439A: US 17/CURTIS ROAD INTERSECTION IMPROVEMENTS WITHIN NCDOT RIGHT OF WAY

U-4439B: CURTIS ROAD FROM US 17 TO "A" STREET ON BOARD THE USMC BASE – NEW RIVER AIR STATION

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

NAD 83/95



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
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	
1636.01	Rock Silt Screen	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A OR A
1632.02	Type B	B OR B
1632.03	Type C	C OR C

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2002 STANDARD SPECIFICATIONS

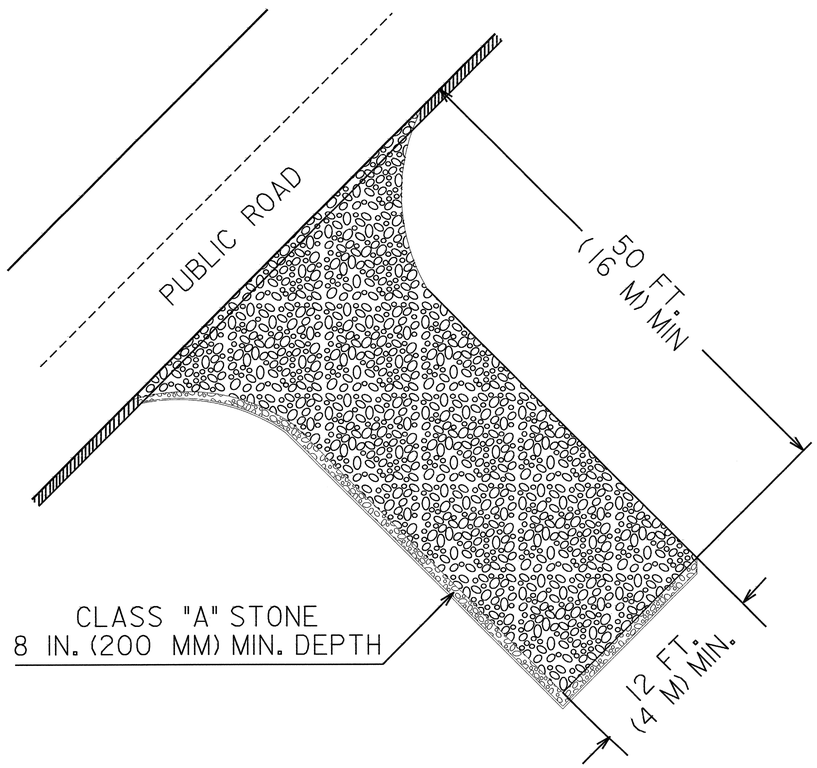
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 20, 2002 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.03	Rock Inlet Sediment Trap Type C
1622.01	Temporary Berms and Slope Drains	1633.01	Temporary Rock Silt Check Type A
1630.03	Temporary Silt Ditch	1633.02	Temporary Rock Silt Check Type B
1630.05	Temporary Diversion	1634.02	Temporary Rock Sediment Dam Type B
		1635.01	Rock Pipe Inlet Sediment Trap Type A

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-4439A&B	EC-2	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-3/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U4439-3" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 361,494.264(ft) EASTING: 2,458,286.934(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999918173
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4439-3" TO -L- STATION 10+00.00 IS
S 39° 05' 49.2" W 1,076.756 FEET
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NCGRID - NAD 83/95

U-4439 A/B BOUNDARY

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

-YI-
PI Sta 18+21.56
△ = 5° 18' 20.8" (RT)
D = 1° 00' 00.0"
L = 530.58'
T = 265.48'
R = 5,729.58'

2004 ADT / 2024 ADT		33,200 / 56,400	
SR 1130 OLD MAPLE HURST	2,800 / 5,000	12,800 / 18,200	-L- CURTIS ROAD
10,000 / 16,200	2,600 / 4,600	2,200 / 3,200	19,600 / 28,000
-YI- US 17		22,400 / 41,000	

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D = 1 Ft.

-L- STA 16+00 LT TO 18+00 LT
-SBLI- STA 13+00 RT TO 19+50 RT

U-4439 B

NOTE: TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

SEE SHEET 10 FOR -L- PROFILE.
SEE SHEET 12 FOR -SBLI- PROFILE.

MATCH LINE STA. 18+00 -YI-
SEE SHEET NO.9

BEGIN 1.25" RESURFACING
-YI- POT STA. 20+00.00

BEGIN STATE PROJECT U-4439
-L- POT STA. 10+00.00
-YI- POT STA. 21+86.51

-BL- PINCS+a. 11+29.92 (BL-11) =
-BY- PINCS+a. 18+85.12
-L- Sta. 10+25.05 (22.92' RT)

BEGIN RESURF.
END WEDGING
-YI- STA. 21+85.08

BM= V-214
NCGS MONUMENT
-BL- STA. 12+43
4' LEFT
ELEV. 35.32'

40 x 11 x 3
4' weir

CAMP LEJEUNE MARINE RESERVATION

JOE LEE WENSIL and wife BEEDIE RUTH WENSIL
DB 1281 PG 636
DB 1088 PG 122
MB 29 PG 82

CIRCLE K PROPERTIES, INC.
DB 1129 PG 408

ROY ELLIS BAGGETT
DB 755 PG 608

ROY ELLIS BAGGETT and wife WILLIE RAE BAGGETT
DB 649 PG 252

ROY E. BAGGETT and wife WILLIE R. BAGGETT
DB 1600 PG 1027
MB 30 PG 177

ROBERT WAYNE GASPERSON
DB 956 PG 797

U-4439 A

-SBLI- POT Sta. 10+16.52
-YI- POT Sta. 22+42.98

END 1.25" RESURFACING
-YI- POT STA. 23+00.00

BEGIN WEDGING
END RESURF.
-YI- STA. 23+55.70

PT Sta. 20+86.66

PC Sta. 14+16.52

-BL- PINCS+a. 17+85.56 (BL-12)
-L- Sta. 16+79.73 (58.32' RT)

PT Sta. 16+78.19

PC Sta. 17+78.19

EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC

EXTEND 18" RCP W/ CONC. COLLAR

REMOVE HEADWALL 18" RCP

2 GI TYPE D (PRECAST)

REMOVE EX. DI & EXTEND 18" PIPE W/ CONC. COLLAR

SPECIAL CUT DITCH SEE DETAIL A

DO NOT DISTURB BRICK PLANTER

0.5' BRICK PLANTER

1.3' W 11'H X 29.8'L BRICK SIGN

EST. 2 TONS CLASS B RIP RAP W/ 17 SY FILTER FABRIC

300' - 130' 15' o.s.

S 35° 20' 19.0" E

S 37° 38' 59.7" W

S 42° 00' 06.9" E

CURTIS ROAD 40.8' BST

SR 1130 (MAPLEHURST ROAD) VARIABLE WIDTH BST

-SBLI-

PI Sta 15+47.50	PI Sta 19+09.17
△ = 6° 39' 47.8" (LT)	△ = 6° 39' 47.8" (RT)
D = 2° 32' 47.3"	D = 2° 32' 47.3"
L = 261.67'	L = 261.67'
T = 130.98'	T = 130.98'
R = 2,250.00'	R = 2,250.00'
RO = 75'	RO = 75'
SE = NC	SE = NC

MATCH LINE STA. 26+50 -YI-
SEE SHEET NO.9

MATCH LINE STA. 21+00 -L-
SEE SHEET NO.5

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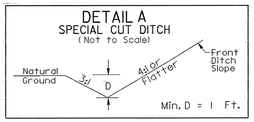
PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-4/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 22+00 RT TO 27+50 RT
-L- STA 24+50 LT TO 28+00 LT
-L- STA 29+70 LT TO 50+00 LT

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

-L-
PI Sta 31+85.55
△ = 14° 46' 51.8" (LT)
D = 2° 29' 28.3"
L = 593.33'
T = 298.32'
R = 2,299.93'
RO = 120'
SE = 0.03 ft/ft

SEE SHEET 10 FOR -L- PROFILE.
SEE SHEET 13 FOR -Y2- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO.4442875.

NCGRID – NAD 83/95

25

30

CAMP LEJEUNE MARINE RESERVATION

25 x 10 x 3
4' weir

REMOVE CURBED ISLANDS AND REPLACE WITH PAVEMENT.
PAVE AS NECESSARY AROUND GUARDHOUSE AND BOLLARDS IN ORDER TO FORCE WATER FLOW AWAY FROM GUARDHOUSE.

MATCH LINE STA. 21+00 -L-
SEE SHEET NO.4

MATCH LINE STA. 34+50 -L-
SEE SHEET NO.6

PCSta. 28+87.23

-L- POT Sta. 32+07.76
-Y2- POT Sta. 10+01.67

S 35° 20' 19.0" E -L-

S 79° 33' 05" W -Y2-

END CONSTRUCTION
-Y2- POT 11+75.00

POT Sta. 13+00.00

250' LT. & RT. EOP TAPER

850' RT TAPER

300' TAPER

100' TAPER

320' TAPER

40' TYP.

2' P.S.

SPECIAL CUT DITCH SEE DETAIL A

SPECIAL CUT DITCH SEE DET. A

SPECIAL CUT DITCH SEE DET. E

EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC

EST. 2 TONS CLASS B RIP RAP W/ 7 SY FILTER FABRIC

THIS WATERLINE ADDED BY MAEC USING PLANS SUPPLIED BY USMC BASE

TIE TO EXIST. DITCH

EXTEND 18" RCP W/ CONC. COLLAR

REMOVE HW

REMOVE 8" CURB

6 BOLLARDS

FUTURE PVC

CURTIS ROAD 40.0' BST

ROBERT WILSON BLVD 40.0' BST

DO NOT DISTURB TREES

FLAG POLES

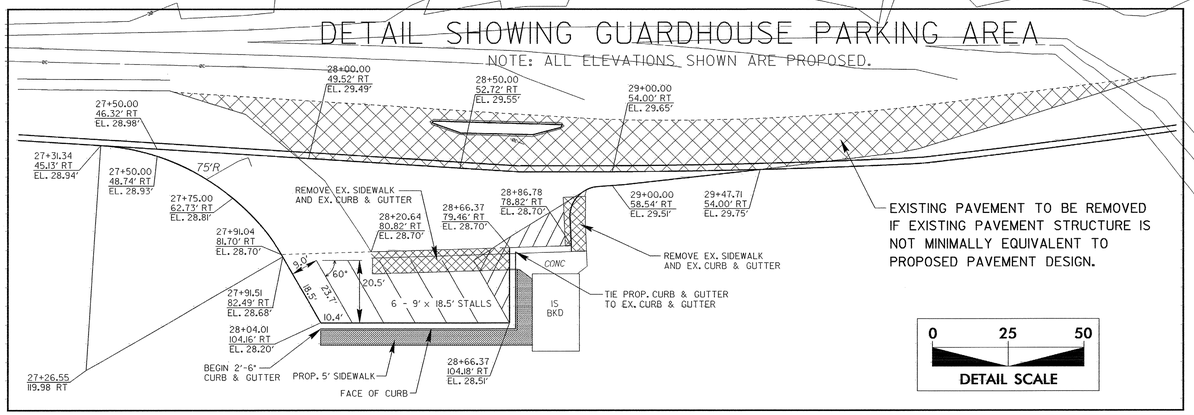
CLEAR & GRUB AREA INSIDE EASEMENT

WOODS

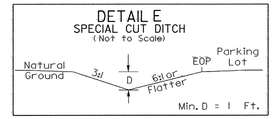
CAMP LEJEUNE MARINE RESERVATION

DETAIL SHOWING GUARDHOUSE PARKING AREA

NOTE: ALL ELEVATIONS SHOWN ARE PROPOSED.



DETAIL E
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 27+50 (62' RT) TO 28+00 (106' RT)

2004 ADT / 2024 ADT		-L- CURTIS ROAD	
19,600 / 28,000	800 / 1,300	400 / 700	19,200 / 27,400
-Y2- ROBERT WILSON BLVD		1,200 / 2,000	

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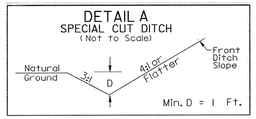
dwalston AT REN22191

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-5/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L- STA 29+70 LT TO 50+00 LT

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NCGRID – NAD 8395

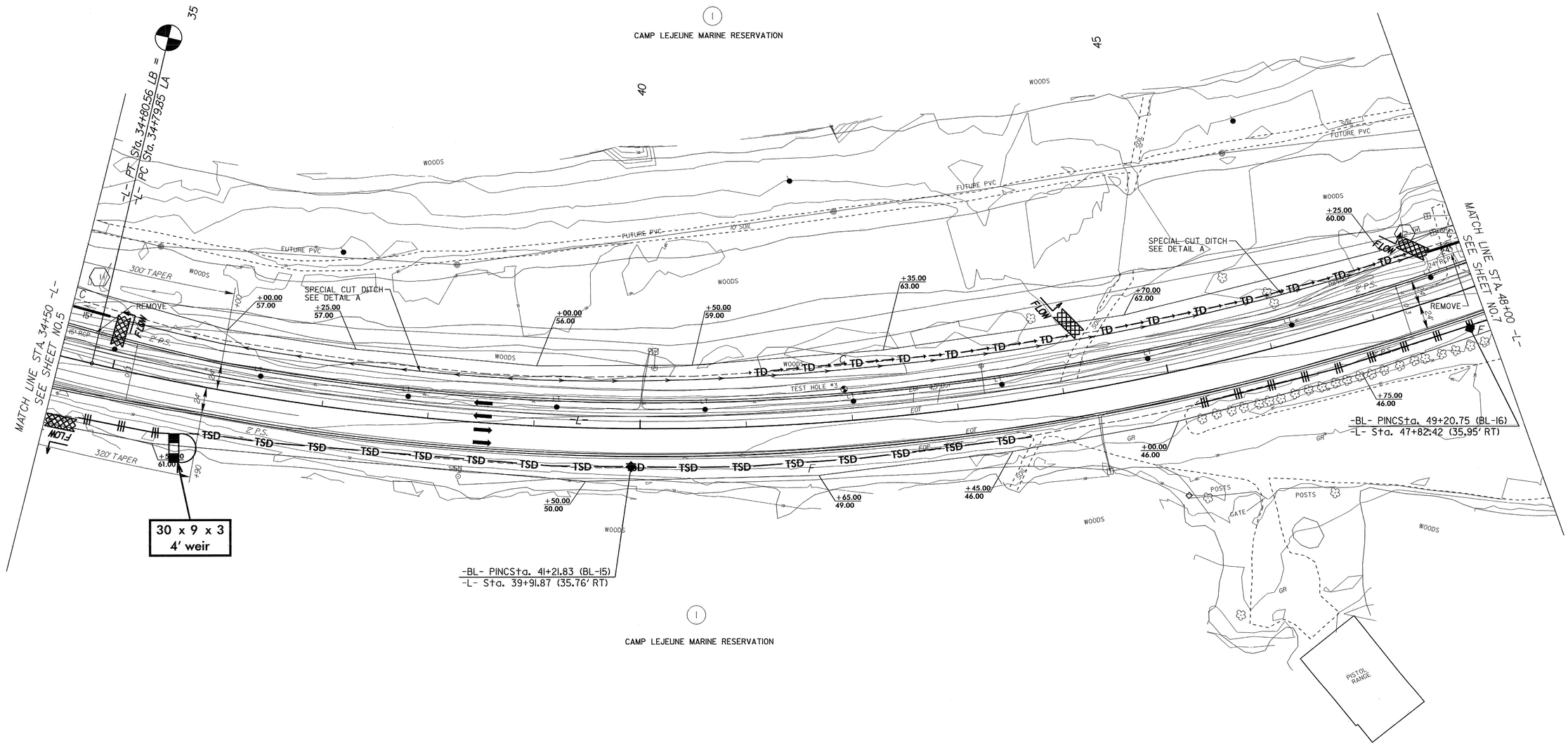
-L-

PI Sta 31+85.55
△ = 14° 46' 51.8" (LT)
D = 2° 29' 28.3"
L = 593.33'
T = 298.32'
R = 2,299.93'
RO = 120'
SE = 0.03 ft/ft

PI Sta 43+68.16
△ = 42° 14' 06.8" (LT)
D = 2° 29' 28.0"
L = 1,695.43'
T = 888.31'
R = 2,300.00'
RO = 90'
SE = 0.03 ft/ft

SEE SHEET 10 & 11 FOR -L- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO. 4442875.



CAMP LEJEUNE MARINE RESERVATION

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dwelston
11" REV 22.43

PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-6/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

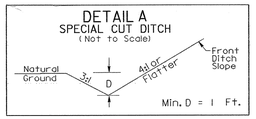
SEE SHEET 11 FOR -L- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO. 4442875.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 29+70 LT TO 50+00 LT
-L- STA 52+50 LT TO 67+50 LT
-L- STA 56+00 RT TO 60+00 RT

-L-
PI Sta 43+68.16
△ = 42° 14' 06.8" (LT)
D = 2° 29' 28.0"
L = 1,695.43'
T = 888.31'
R = 2,300.00'
RO = 90°
SE = 0.03 ft/ft

NCGRID – NAD 8395

50 55 60

PT Sta. 51+75.28

CAMP LEJEUNE MARINE RESERVATION

WOODS

FUTURE PVC

SOIL

BM= 51

SPECIAL CUT DITCH SEE DETAIL A

+95.00 53.00

+00.00 54.00

+05.00 62.00

TD

FLOW

100' TAPER

124" REMOVE 168" X 24" RCP

ELECTRIC BOX

N 87° 38' 42.4" E

-L-

MATCH LINE STA. 48+00 -L- SEE SHEET NO.6

MATCH LINE STA. 61+00 -L- SEE SHEET NO.8

CURTIS ROAD 403 BST

0.3 0.25 0.2 0.1 0.0 0.1 0.2 0.25 0.3

60' TYP.

TSD

+65.00 46.00

+75.00 46.00

+50.00 50.00

240' TAPER

+00.00 60.00

+80

+85

+00.00 79.00

+50.00 82.00

BARRICADE

2' P.S.

12" CI

24"

36"

48"

END OF INFORMATION

18" RCP

RETAIN

BST

A

-BL- PINCS ta. 57+53.13 (BL-17)
-L- Sta. 56+09.94 (34.88' RT)

SPECIAL CUT DITCH SEE DETAIL A

CAMP LEJEUNE MARINE RESERVATION

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-7/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

2004 ADT / 2024 ADT			
	7,000 / 10,000		
-Y3- 'A' STREET			
4,400 / 6,200	1,200 / 1,600	-L- CURTIS ROAD	
19,200 / 27,400	3,200 / 4,600	1,200 / 1,800	14,000 / 20,000
-Y4- SCHMIDT ROAD			
	5,800 / 8,600		

NCGRID - NAD 8395

SEE SHEETS 11 & 12 FOR -L- PROFILE.
SEE SHEET 13 FOR -Y3- & -Y4- PROFILES.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO. 4442875.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

REVISIONS

8/17/99

MATCH LINE STA. 6+00 -L- SEE SHEET NO.7

RETAIN +40.00 / 52.00

BEGIN CONSTRUCTION -Y3- POT 10+50.00 +40.00 / 36.00

SPECIAL CUT DITCH SEE DETAIL A

+50.00 / 50.00

SPECIAL CUT DITCH SEE DETAIL A +50.00 / 62.00

END 2° P.S. BEGIN 2-6 C&G -Y3- 12+85 RT

REMOVE

REPLACE GRAVEL PATH ON -Y3- LEFT SHOULDER USING 3" INCIDENTAL STONE

CAMP LEJEUNE MARINE RESERVATION

-L- POT Sta. 68+03.16
-Y3- POT Sta. 15+60.00

SUBSTATION

REMOVE

+57.00 -L- 70.00 -Y3-

SPECIAL CUT DITCH SEE DETAIL A

+20.00 / 60.00

+33.00 / 57.00

+72.00 / 57.00

SUBSTATION END 2° P.S. BEGIN 2-6 C&G -L- 67+65 LT

EST. 5 TONS CLASS B RIP RAP W/ 14 SY FILTER FABRIC

+49.50 -L- 84.00

+50.00 / 72.00

+10.00 / 50.00

64 x 22 x 3 6' weir

END STATE PROJECT U-4439 -L- POT STA. 73+00.00

-L- POT Sta. 74+55.32

CAMP LEJEUNE MARINE RESERVATION

N 87° 38' 42.4" E

150' FULL STORAGE

100' TAPER

400' FULL STORAGE

160' FULL STORAGE

5' MONO. CONC. ISL.

EXCAVATION HOLE HERE NO UTILITY FOUND

REM. HW'S PLUG & FILL W/FLOWABLE GROUT

REMOVE EXISTING ISLAND

+15.00 -L- 69.00

REMOVE PIPE TO MATCH EX. DITCH SECTION SEE DETAIL B

+60.00 / 85.00

+77.00 -Y4- 94.00

+05.00 -Y4- 40.00

+73.00 -L- 73.00

-L- POT Sta. 68+09.54
-Y4- POT Sta. 10+00.00

-BL- PINCS Sta. 64+64.21 (BL-18)
-L- Sta. 63+20.98 (42.07' RT)

-BL- PINCS Sta. 69+32.63 (U4439-4) =
-BYI- PINCS Sta. 11+57.59
-L- Sta. 67+87.31 (86.39' RT)

-BL- POT Sta. 74+95.73 (BL-19)
-L- Sta. 73+49.93 (63.27' RT)

BM# 52

IS BK BUS

IS BK SCHOOL

CAMP LEJEUNE MARINE RESERVATION

END CONSTRUCTION -Y4- POT 14+12.00 +22.00 / 42.00

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)

DETAIL B
(Not to Scale)

-L- STA 52+50 LT TO 67+50 LT
-L- STA 61+50 RT TO 63+00 RT
-L- STA 72+00 RT TO 73+00 RT
-L- STA 68+50 LT TO 73+00 LT
-Y3- STA 10+50 LT TO STA 15+00 LT
-Y3- STA 10+50 RT TO STA 12+80 RT

-Y4- STA 10+98 RT TO 11+68 RT

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PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-8/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NOTE:
TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

---------- *U-4439 A/B BOUNDARY*

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9

SEE SHEET 13 FOR -Y1- DITCH PROFILES.

NCGRID – NAD 8395

MATCH LINE STA. 26+50 -Y1-
SEE SHEET NO.4

EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC

+80.00 -Y1-
122.00 & 140.00

EXTEND 18" ROP W/ CONC. COLLAR

RETAIN

PIPE CLEAN OUT

S 37°38'59.7"W

-Y1-

+50.00
120.00

DANIEL G. KAMIN
PLUM POINTE LLC.
DB 1600 PG 808
MB 30 PG 177

TRUSTEES OF MAPLE HURST PRIMITIVE BAPTIST CHURCH
DB 228 PG 640

CAMP LEJEUNE MARINE RESERVATION

U-4439 B

-Y1-
PI Sta 30+75.35
Δs = 3°15'00.0"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

TS Sta. 29+42.00

FLOW

300' TAPER

VARIABLE WIDTH BST

US 17 NORTHBOUND

US 17 SOUTHBOUND

WOODS

ACEY FRANKLIN TAYLOR
DB 440 PG 359

END 1.25" RESURFACING

SC Sta. 31+42.00

END CONSTRUCTION & 1.25" RESURFACING
-Y1- POC 31+50.00

-Y1-
PI Sta 33+21.62
Δ = 11°38'06.6" (LT)
D = 3°15'00.0"
L = 358.00
T = 179.62'
R = 1,762.95'

-BL- POT Sta. 29+22.63 (BL-100)
-Y1- Sta. 32+55.35 (13.3' LT)

PT Sta. 35+00.00

S 22°45'53.2"W

PHILLIP R. PIERCE and wife LOIS C. PIERCE
DB 692 PG 259
MB 4 PG 13

U-4439 A

-BY- POT Sta. 5+00.00 (BY-100)

28 x 14 x 3
4' weir

POT Sta. 10+00.00

S 38°20'38.8"W

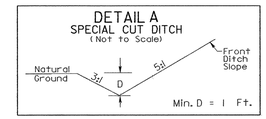
ANNE L. ARAGONA
DB 1583 PG 615

BEGIN CONSTRUCTION & 1.25" RESURFACING
-Y1- POT 13+00.00

CAMP LEJEUNE MARINE RESERVATION

U-4439 B

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-Y1- STA 13+00 MED TO 15+00 MED
-Y1- STA 15+50 MED TO 17+00 MED

SPECIAL CUT DITCH SEE DETAIL A

BEN ARAGONA
DB 1822 PG 900

GRACE LOCKLEAR GRANT
DB 745 PG 496

EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC

PIPE CLEAN OUT

RETAIN & PIPE CLEAN OUT

PC Sta. 15+56.08

EXTEND 18" RCP W/ CONC. COLLAR

GIRISH PATEL and wife SUDHA PATEL
DB 1807 PG 743

SPECIAL CUT DITCH SEE DETAIL A

-Y1-
PI Sta 18+21.56
Δ = 5°18'20.8" (RT)
D = 1°00'00.0"
L = 530.58'
T = 265.48'
R = 5,729.58'

CASHION AND LENNING, INC.
DB 1533 PG 1009

JOE LEE WENSIL and wife BEEDIE RUTH WENSIL
DB 1281 PG 636
DB 1088 PG 122
MB 29 PG 82

MATCH LINE STA. 18+00 -Y1-
SEE SHEET NO.4

50 x 25 x 3
4' weir

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dwalston AT REN\22\49

U-4439 A/B BOUNDARY

U-4439 B

U-4439 A

-YI-
PI Sta 18+21.56
Δ = 5° 18' 20.8" (RT)
D = 1° 00' 00.0"
L = 530.58'
T = 265.48'
R = 5,729.58'

2004 ADT / 2024 ADT		33,200 / 56,400	
SR 1130 OLD MAPLE HURST	2,800 / 5,000	12,800 / 18,200	-L- CURTIS ROAD
10,000 / 16,200	2,600 / 4,600	2,200 / 3,200	19,600 / 28,000
	-YI- US 17	22,400 / 41,000	

NCGRID = NAD 83/95

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3H, D, All or Flatter, Front Ditch Slope
Min. D = 1 Ft.

-L- STA 16+00 LT TO 18+00 LT
-SBLI- STA 13+00 RT TO 19+50 RT

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U4439-3" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 361,494.264(ft) EASTING: 2,458,286.934(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999918173
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4439-3" TO -L- STATION 10+00.00 IS
S 39° 05' 49.2" W 1,076.756 FEET
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-9/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

SEE SHEET 10 FOR -L- PROFILE.
SEE SHEET 12 FOR -SBLI- PROFILE.

MATCH LINE STA. 18+00 -YI-
SEE SHEET NO.9

BEGIN 1.25" RESURFACING
-YI- POT STA. 20+00.00

BEGIN STATE PROJECT U-4439
-L- POT STA. 10+00.00
-YI- POT STA. 21+86.51

-BL- PINCSta. 11+29.92 (BL-11) =
-BY- PINCSta. 18+85.12
-L- Sta. 10+25.05 (22.92' RT)

BEGIN RESURF.
END WEDGING
-YI- STA. 21+85.08

BM# V-214
NCGS MONUMENT
-BL- STA. 12+43
4' LEFT
ELEV. 35.32'

JOE LEE WENSIL and wife
BEEDIE RUTH WENSIL
DB 1281 PG 636
DB 1088 PG 122
MB 29 PG 82

CIRCLE K PROPERTIES, INC.
DB 1129 PG 408

ROY ELLIS BAGGETT
DB 755 PG 608

ROY ELLIS BAGGETT and wife
WILLIE RAE BAGGETT
DB 649 PG 252

ROY E. BAGGETT and wife
WILLIE R. BAGGETT
DB 1600 PG 1027
MB 30 PG 177

ROBERT WAYNE GASPERSON
DB 956 PG 797

-SBLI- POT Sta. 10+16.52
-YI- POT Sta. 22+42.98

END 1.25" RESURFACING
-YI- POT STA. 23+00.00

PT Sta. 20+86.66

CAMP LEJEUNE MARINE RESERVATION

40 x 11 x 3 4' weir
24 x 12 x 3 4' weir
34 x 17 x 3 4' weir
56 x 17 x 3 4' weir
47 x 15 x 3 4' weir

EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC
EXTEND 18" RCP W/ CONC. COLLAR
REMOVE HEADWALL 18"RCP
REMOVE EX. DI (PRECAST) & EXTEND 18" RCP W/ CONC. COLLAR
2GI TYPE D
EST. 2 TONS CLASS B RIP RAP W/ 7 SY FILTER FABRIC
EXTEND 18" RCP W/ CONCRETE COLLAR
SPECIAL CUT DITCH SEE DETAIL A
DO NOT DISTURB BRICK PLANTER
1.3' W X 11'H X 22.8'L BRICK SIGN
0.5 BRICK PLANTER SILL
TEST HOLE #1
9 CONC PIPE

-BL- PINCSta. 17+85.56 (BL-12)
-L- Sta. 16+79.73 (58.32' RT)

PTSta. 16+78.19
PCSta. 17+78.19
PCSta. 14+16.52

-SBLI- PTSta. 20+39.85 =
-L- POTSta. 20+38.00 (12' RT)

MATCH LINE STA. 21+00 -L-
SEE SHEET NO.5

MATCH LINE STA. 26+50 -YI-
SEE SHEET NO.9

-SBLI-

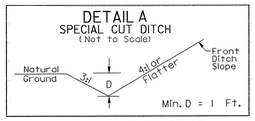
PI Sta 15+47.50	PI Sta 19+09.17
Δ = 6° 39' 47.8" (LT)	Δ = 6° 39' 47.8" (RT)
D = 2° 32' 47.3"	D = 2° 32' 47.3"
L = 261.67'	L = 261.67'
T = 130.98'	T = 130.98'
R = 2,250.00'	R = 2,250.00'
RO = 75'	RO = 75'
SE = NC	SE = NC

PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-10/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 10 FOR -L- PROFILE.
SEE SHEET 13 FOR -Y2- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO.4442875.

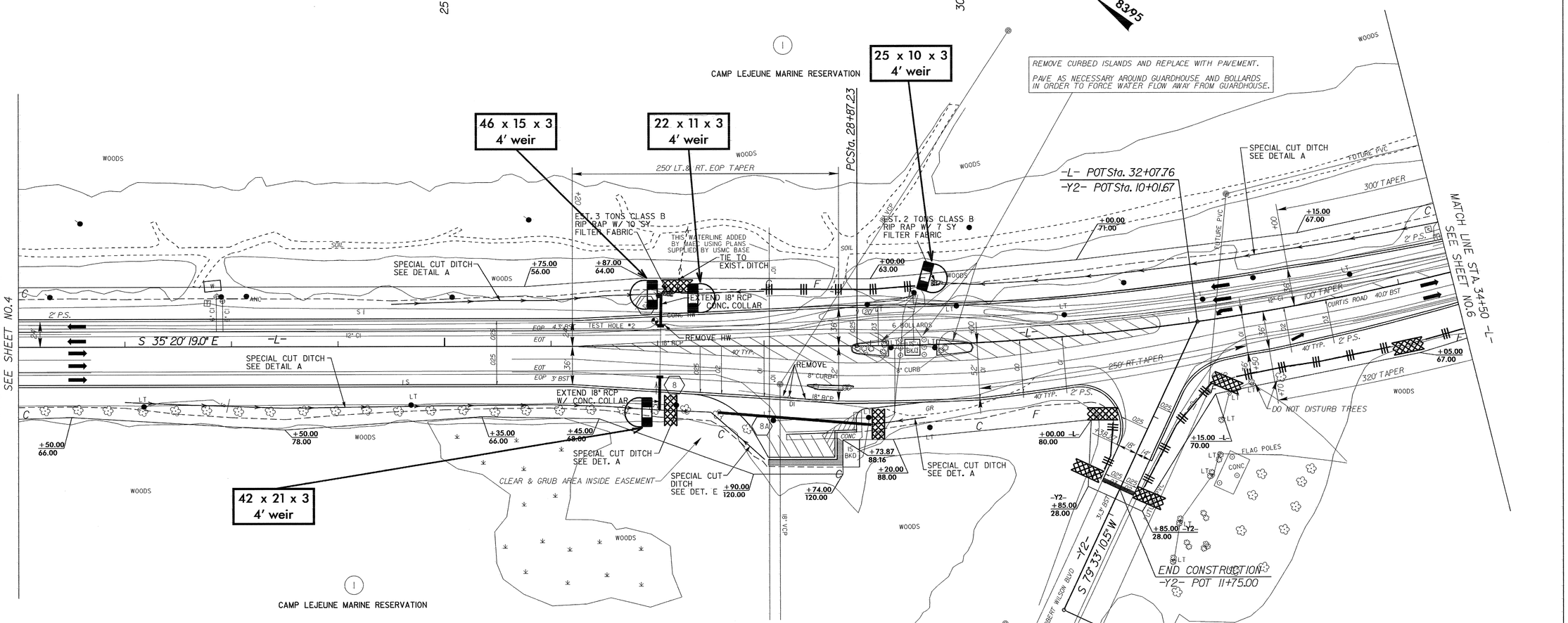
DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 22+00 RT TO 27+50 RT
-L- STA 24+50 LT TO 28+00 LT
-L- STA 29+70 LT TO 50+00 LT

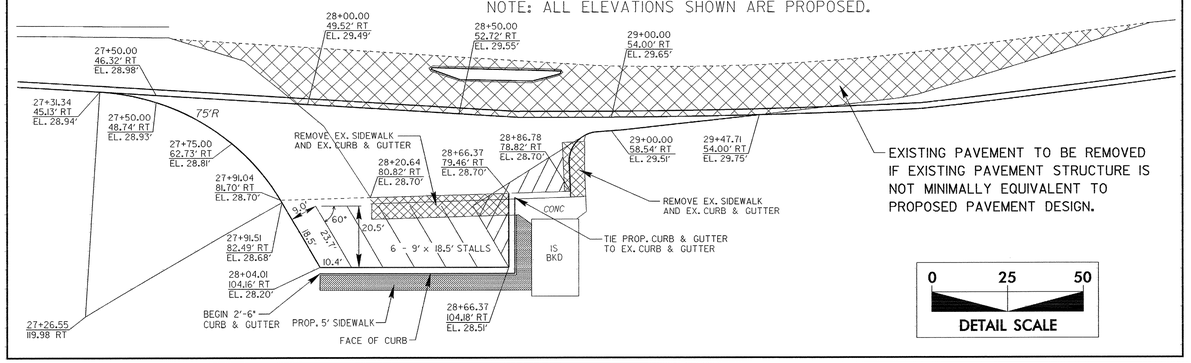
-L-
PI Sta 31+85.55
Δ = 14° 46' 51.8" (LT)
D = 2° 29' 28.3"
L = 593.33'
T = 298.32'
R = 2,299.93'
RO = 120'
SE = 0.03 ft/ft

NCGRID - NAD 83/95

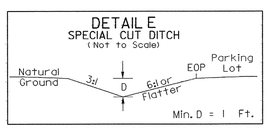


DETAIL SHOWING GUARDHOUSE PARKING AREA

NOTE: ALL ELEVATIONS SHOWN ARE PROPOSED.



DETAIL E
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 27+50 (62' RT) TO 28+00 (106' RT)

2004 ADT / 2024 ADT		-L- CURTIS ROAD	
19,600 / 28,000	800 / 1,300	400 / 700	19,200 / 27,400
-Y2- ROBERT WILSON BLVD			
	1,200 / 2,000		

REVISIONS
8/17/99

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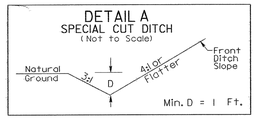
PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-11/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 10 & 11 FOR -L- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO.4442875.

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 29+70 LT TO 50+00 LT

NCGRID - NAD 8395

-L-

PI Sta 31+85.55
△ = 14° 46' 51.8" (LT)
D = 2° 29' 28.3"
L = 593.33'
T = 298.32'
R = 2,299.93'
RO = 120'
SE = 0.03 ft/ft

PI Sta 43+68.16
△ = 42° 14' 06.8" (LT)
D = 2° 29' 28.0"
L = 1,695.43'
T = 888.31'
R = 2,300.00'
RO = 90'
SE = 0.03 ft/ft

CAMP LEJEUNE MARINE RESERVATION

-L- PT Sta. 34+80.56 LB =
-L- PC Sta. 34+79.85 LA

MATCH LINE STA 34+50 -L-
SEE SHEET NO.5

MATCH LINE STA. 48+00 -L-
SEE SHEET NO.7

WOODS
FUTURE PVC
50' SOIL
SPECIAL CUT DITCH
SEE DETAIL A
300' TAPER
320' TAPER
REMOVE
15" RCP
24" RCP
2' P.S.
TSD
SIGN
TEST HOLE #3
EOP
EOT
GR
POSTS
GATE
PISTOL RANGE
ASPHALT
+00.00 57.00
+25.00 57.00
+00.00 56.00
+50.00 59.00
+35.00 63.00
+70.00 62.00
+25.00 60.00
+75.00 46.00
+00.00 46.00
+45.00 46.00
+65.00 49.00
+50.00 50.00
+50.00 61.00

30 x 9 x 3
4' weir

-BL- PINCSta. 41+21.83 (BL-15)
-L- Sta. 39+91.87 (35.76' RT)

-BL- PINCSta. 49+20.75 (BL-16)
-L- Sta. 47+82.42 (35.95' RT)

CAMP LEJEUNE MARINE RESERVATION

REVISIONS

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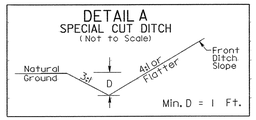
PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-12/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 11 FOR -L- PROFILE.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO. 4442875.

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



-L- STA 29+70 LT TO 50+00 LT
-L- STA 52+50 LT TO 67+50 LT
-L- STA 56+00 RT TO 60+00 RT

-L-
PI Sta 43+68.16
△ = 42° 14' 06.8" (LT)
D = 2° 29' 28.0"
L = 1,695.43'
T = 888.31'
R = 2,300.00'
R0 = 90'
SE = 0.03 ft/ft

NCGRID - NAD 83/95

50 55 60

PTSta. 51+75.28

CAMP LEJEUNE MARINE RESERVATION

WOODS

FUTURE PVC

SOIL

BM# 51

SPECIAL CUT DITCH SEE DETAIL A

+95.00 53.00

+00.00 54.00

+05.00 62.00

100' TAPER

ELECTRIC BOX

WOODS END OF INFORMATION

I3

24" REMOVE (GR) 24" RCP

2' P.S.

BARRICADE

12" CI

CURTIS ROAD 40' BST

N 87° 38' 42.4" E -L-

MATCH LINE STA. 48+00 -L- SEE SHEET NO.6

MATCH LINE STA. 61+00 -L- SEE SHEET NO.8

TSD TSD TSD TSD TSD 80' TYP. TSD TSD TSD TSD TSD TSD TSD

+65.00 46.00

+75.00 46.00

+50.00 50.00

240' TAPER

+00.00 60.00

+00

+06

100' TAPER

+00.00 79.00

+50.00 82.00

RETAIN

RIPRAP

18" RCP

24" CMP

BST

END OF INFORMATION

-BL- PINCSta. 57+53.13 (BL-17)
-L- Sta. 56+09.94 (34.88' RT)

CAMP LEJEUNE MARINE RESERVATION

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	EC-13/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEETS 11 & 12 FOR -L- PROFILE.
SEE SHEET 13 FOR -Y3- & -Y4- PROFILES.

NOTE: FUTURE PVC SANITARY SEWER MAIN LINES ARE SHOWN FROM NAVFAC DRAWING NO.4442875.

2004 ADT / 2024 ADT			
	-Y3- 'A' STREET	7,000 / 10,000	
4,400 / 6,200	1,200 / 1,600	-L- CURTIS ROAD	
19,200 / 27,400	3,200 / 4,600	1,200 / 1,800	14,000 / 20,000
	-Y4- SCHMIDT ROAD	5,800 / 8,600	

NCGRID - NAD 8395

REVISIONS

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MATCH LINE STA.61+00 -L-
SEE SHEET NO.7

BEGIN CONSTRUCTION
-Y3- POT 10+50.00

RETAIN
+40.00
52.00

+40.00
36.00

SPECIAL CUT DITCH
SEE DETAIL A

+50.00
50.00

100' LT. & RT. TAPER

SPECIAL CUT DITCH
SEE DETAIL A
+50.00
62.00

END 2' P.S.
BEGIN 2'-6" C&G
-Y3- 12+85 RT

REMOVE

REPLACE GRAVEL PATH ON -Y3- LEFT SHOULDER USING 3" INCIDENTAL STONE

CAMP LEJEUNE MARINE RESERVATION

36 x 18 x 3
4' weir

-L- POT Sta. 68+03.16
-Y3- POT Sta. 15+60.00

S 23°03'36" E
355' FULL STORAGE
-Y3-

SUBSTATION

REMOVE

+57.00 -L-
70.00

SUBSTATION
END 2' P.S.
BEGIN 2'-6" C&G
-L- 67+65 LT

+20.00
60.00

+33.00
57.00

+72.00
57.00

SPECIAL CUT DITCH
SEE DETAIL A

FUTURE PVC

WOODS

SOIL

72"CHL/3SBW

SUBSTATION

+49.50 -L-
84.00

EST. 5 TONS CLASS B
RIP RAP W/14 SY
FILTER FABRIC

TEST HOLE #11

SPECIAL CUT DITCH
SEE DETAIL A

+50.00
72.00

+10.00
50.00

64 x 22 x 3
6' weir

CAMP LEJEUNE MARINE RESERVATION

POT Sta. 74+55.32

END STATE
PROJECT U-4439
-L- POT STA. 73+00.00

N 87° 38' 42.4" E

100' TAPER

150' FULL STORAGE

400' FULL STORAGE

160' FULL STORAGE

5' MONO.CONC.ISL.

EXCAVATION HOLE HERE
NO UTILITY FOUND

REM. HW'S
PLUG & FILL
w/FLOWABLE
GROUT

REMOVE

-L-
CURTIS ROAD 50.1 BST

TEST HOLE #13
TEST HOLE #7
TEST HOLE #14

6" PLASTIC

12" CI

12" RCP

12" PVC

RETAIN

SPECIAL CUT DITCH
SEE DETAIL A

BM# 52

WOODS

-L- POT Sta. 68+09.54
-Y4- POT Sta. 10+00.00

-BL- POT Sta. 74+95.73 (BL-19)
-L- Sta. 73+49.93 (63.27' RT)

+15.00 -L-
69.00

REMOVE PIPE
TO MATCH EX.
DITCH SECTION
SEE DETAIL B

+60.00
85.00

+73.00 -L-
73.00

-BL- PINC Sta. 69+32.63 (U4439-4) =
-BYI- PINC Sta. 11+57.59
-L- Sta. 67+87.31 (86.39' RT)

+77.00 -Y4-
94.00

+05.00 -Y4-
40.00

REMOVE EXISTING ISLAND

SCHMIDT ROAD 34.0 BST

225' FULL STORAGE
-Y4-

TEST HOLE #6

-Y4-

100' TAPER

SAN. PUMP STA
STATION

+22.00
40.00

+22.00
42.00

END CONSTRUCTION
-Y4- POT 14+12.00

-BL- PINC Sta. 64+64.21 (BL-18)
-L- Sta. 63+20.98 (42.07' RT)

IS BK BUS

IS BK SCHOOL

CAMP LEJEUNE MARINE RESERVATION

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)

DETAIL B
(Not to Scale)

-L- STA 52+50 LT TO 67+50 LT
-L- STA 61+50 RT TO 63+00 RT
-L- STA 72+00 RT TO 73+00 RT
-L- STA 68+50 LT TO 73+00 LT
-Y3- STA 10+50 LT TO STA 15+00 LT
-Y3- STA 10+50 RT TO STA 12+80 RT

-Y4- STA 10+98 RT TO 11+68 RT

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davidson
AT REN/22149


PROJECT REFERENCE NO.
U-4439A&B
SHEET NO.
EC-14/CONST.9
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
U-4439 A/B BOUNDARY
SEE SHEET 13 FOR -YI- DITCH PROFILES.
NOTE:
TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS
NCGRID - NAD 83/95
MATCH LINE STA. 26+50 -YI-
SEE SHEET NO. 4
EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC
+80.00 -YI-
122.00' & 140.00'
EXTEND 18" ROP W/ CONC. COLLAR
RETAIN
PIPE CLEAN OUT
DANIEL G. KAMIN
PLUM POINTE LLC.
DB 1600 PG 808
MB 30 PG 177
S 37° 38' 59.7" W
CAMP LEJEUNE MARINE RESERVATION
U-4439 B
TRUSTEES OF MAPLE HURST PRIMITIVE BAPTIST CHURCH
DB 228 PG 640
TS Sta. 29+42.00
30
-YI-
PIs Sta 30+75.35
θs = 3° 15' 00.0"
Ls = 200.00'
LT = 133.36'
ST = 66.69'
ACEY FRANKLIN TAYLOR
DB 440 PG 359
END 1.25" RESURFACING
SC Sta. 31+42.00
END CONSTRUCTION
& 1.25" RESURFACING
-YI- POC 31+50.00
-YI-
PI Sta 33+21.62
Δ = 11° 38' 06.6" (LT)
D = 3° 15' 00.0"
L = 358.00
T = 179.62'
R = 1,762.95'
-BY- POT Sta. 29+22.63 (BY-101)
-YI- Sta. 32+55.35 (133.31' LT)
PT Sta. 35+00.00
PHILLIP R. PIERCE
and wife
LOIS C. PIERCE
DB 692 PG 259
MB 4 PG 13
S 27° 45' 53.2" W
U-4439 A
28 x 14 x 3
4' weir
-BY- POT Sta. 5+00.00 (BY-101)
POT Sta. 10+00.00
10
ANNE L. ARAGONA
DB 1583 PG 615
BEN ARAGONA
DB 1822 PG 900
GRACE LOCKLEAR GRANT
DB 745 PG 496
S 36° 20' 38.9" W
SPECIAL CUT DITCH
SEE DETAIL A
DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
Min. D = 1 Ft.
-YI- STA 13+00 MED TO 15+00 MED
-YI- STA 15+50 MED TO 17+00 MED
BEGIN CONSTRUCTION
& 1.25" RESURFACING
-YI- POT 13+00.00
CAMP LEJEUNE MARINE RESERVATION
U-4439 B
15
PC Sta. 15+56.08
RETAIN & PIPE CLEAN OUT
EST. 3 TONS CLASS B RIP RAP W/ 10 SY FILTER FABRIC
PIPE CLEAN OUT
EXTEND 18" RCP W/ CONC. COLLAR
GIRISH PATEL
and wife
SUDHA PATEL
DB 1807 PG 743
U-4439 A
-YI-
PI Sta 18+21.56
Δ = 5° 18' 20.8" (RT)
D = 1° 00' 00.0"
L = 530.58'
T = 265.48'
R = 5,729.58'
CASHION AND LENNING, INC.
DB 1533 PG 1009
JOE LEE WENSIL
and wife
BEEDIE RUTH WENSIL
DB 1281 PG 636
DB 1088 PG 122
MB 29 PG 82
MATCH LINE STA. 18+00 -YI-
SEE SHEET NO. 4
50 x 25 x 3
4' weir
REVISIONS
8/17/99
10-MAR-2005 16:25