

TIP PROJECT: B-4307

CONTRACT: C202124

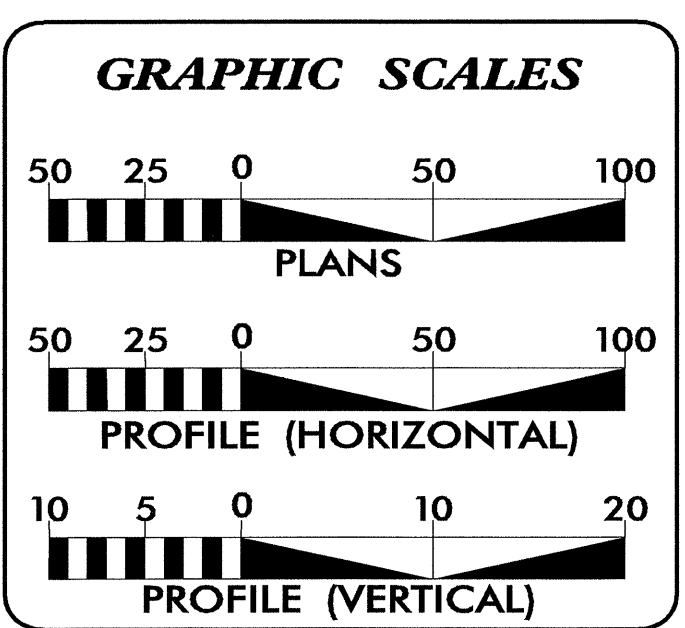
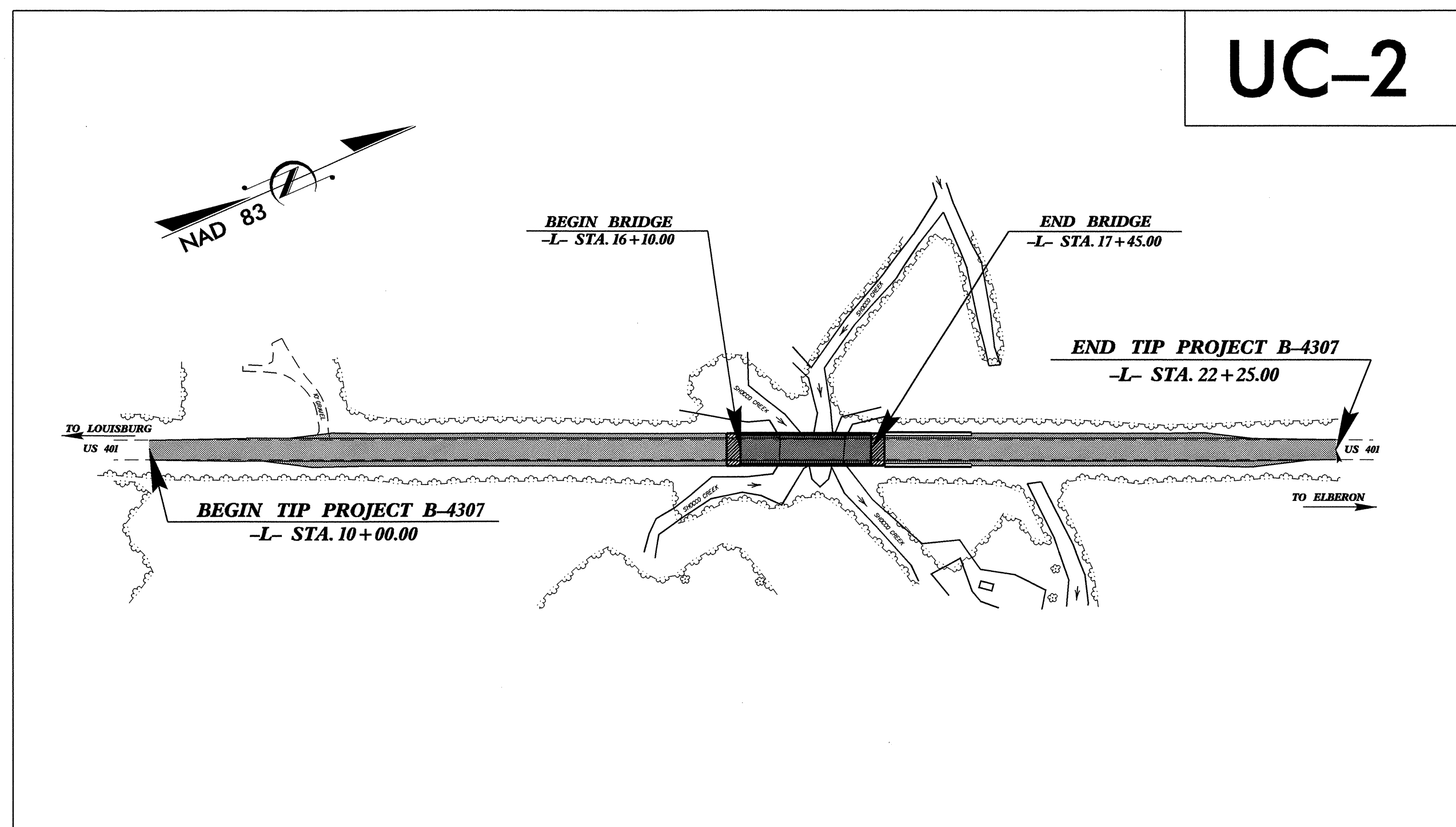
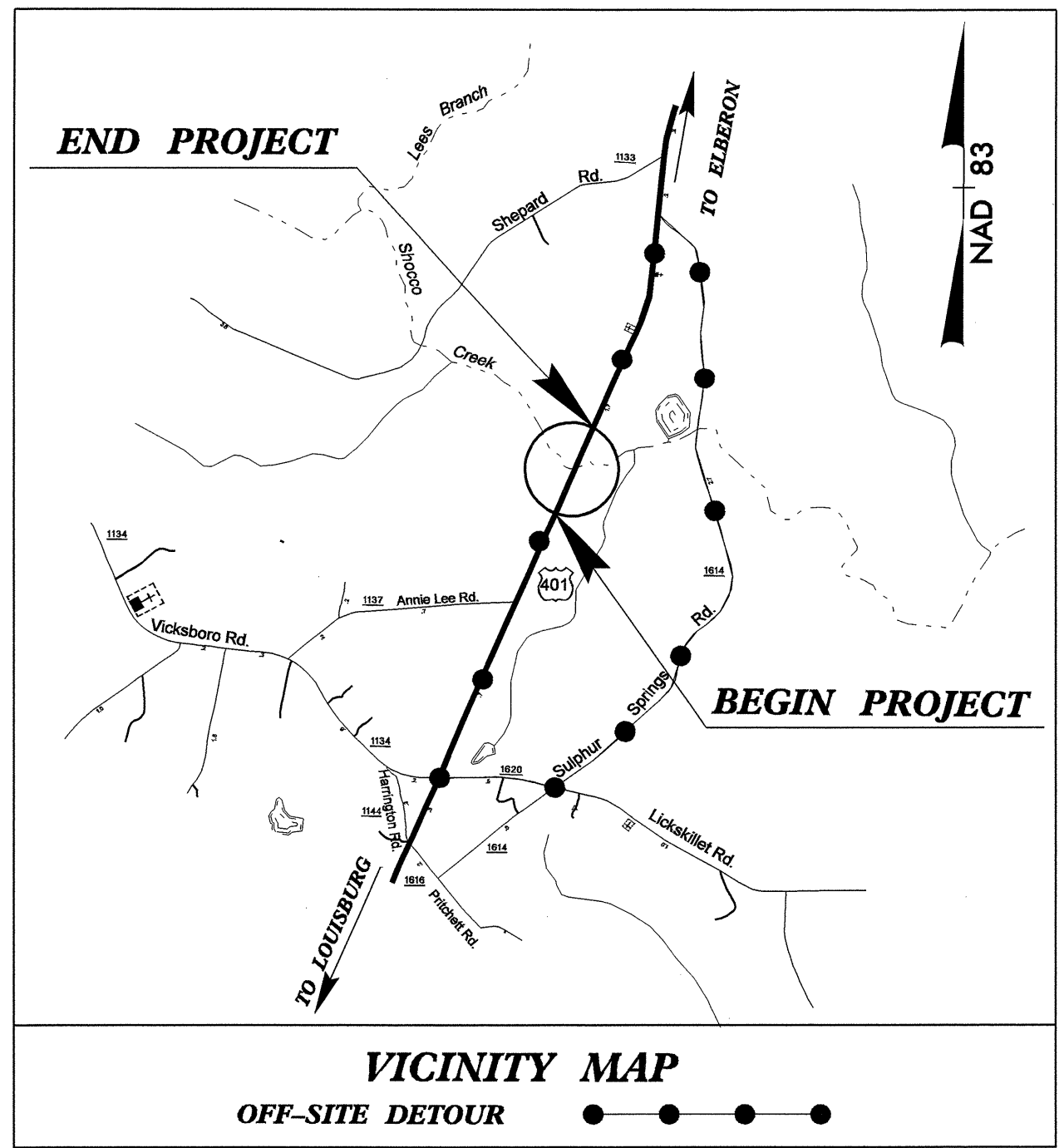
T.I.P. NO.	SHEET NO.
B-4307	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
WARREN COUNTY**

**LOCATION: BRIDGE No. 4 OVER SHOCCO CREEK
AND APPROACHES ON US 401**

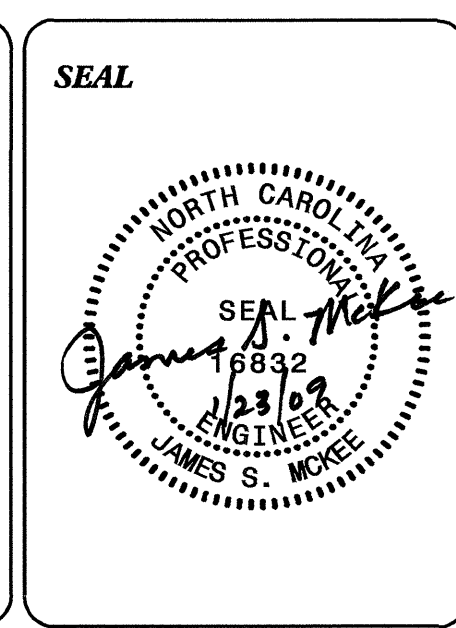
TYPE OF WORK: UTILITY CONSTRUCTION



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN SHEET
UC-3	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - WARREN COUNTY PUBLIC UTILITIES

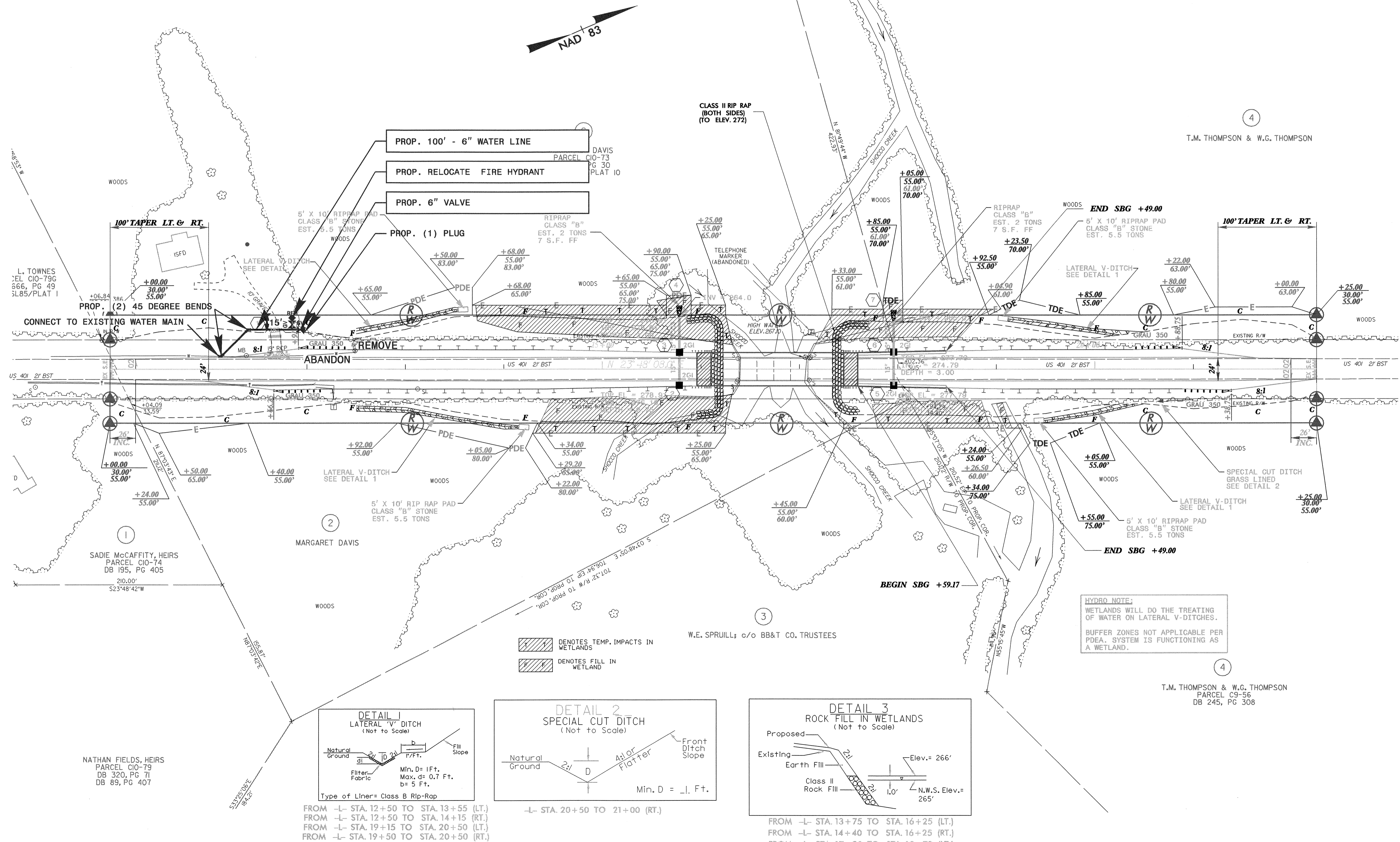


PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Donald Proper UTILITIES PROJECT DESIGNER

UTILITY CONSTRUCTION



4
T.M. THOMPSON & W.G. THOMPSON

4
T.M. THOMPSON & W.G. THOMPSON
 PARCEL C3-56
 DB 245, PG 308

L. TOWNES
 DEL. CIO-79G
 566, PG 49
 3LBS/PLAT 1

SADIE McCAFFITY, HEIRS
 PARCEL CIO-74
 DB 195, PG 405
 210.00'
 S23°48'42"W

NATHAN FIELDS, HEIRS
 PARCEL CIO-79
 DB 320, PG 71
 DB 89, PG 407

MARGARET DAVIS

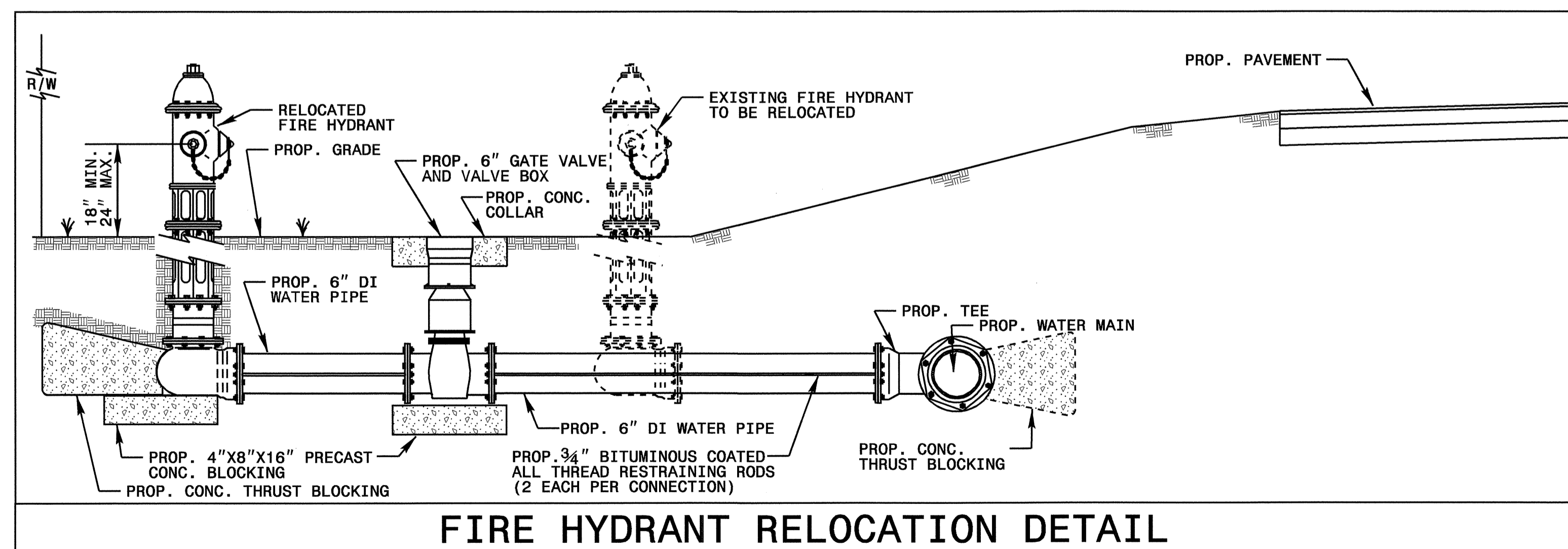
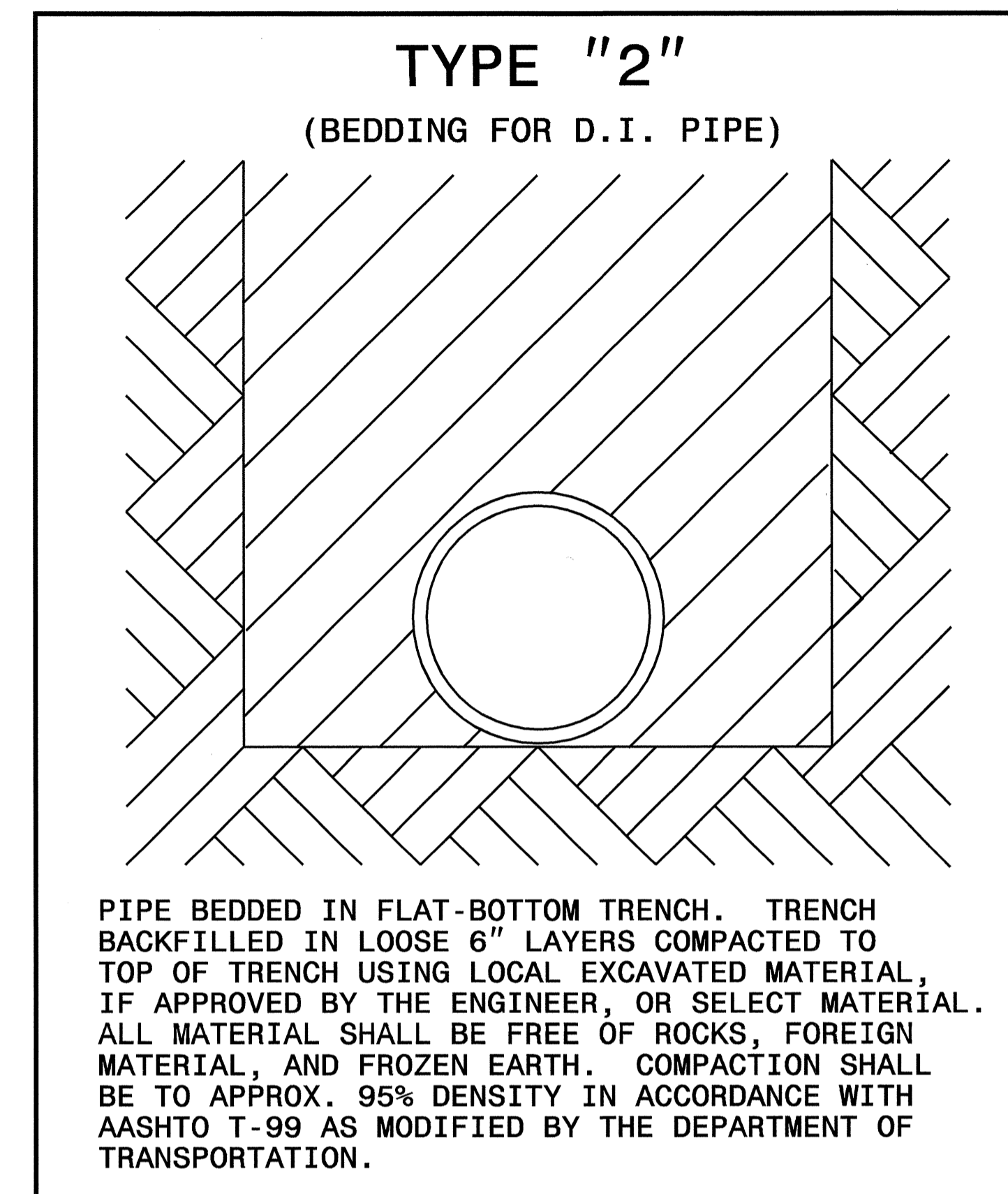
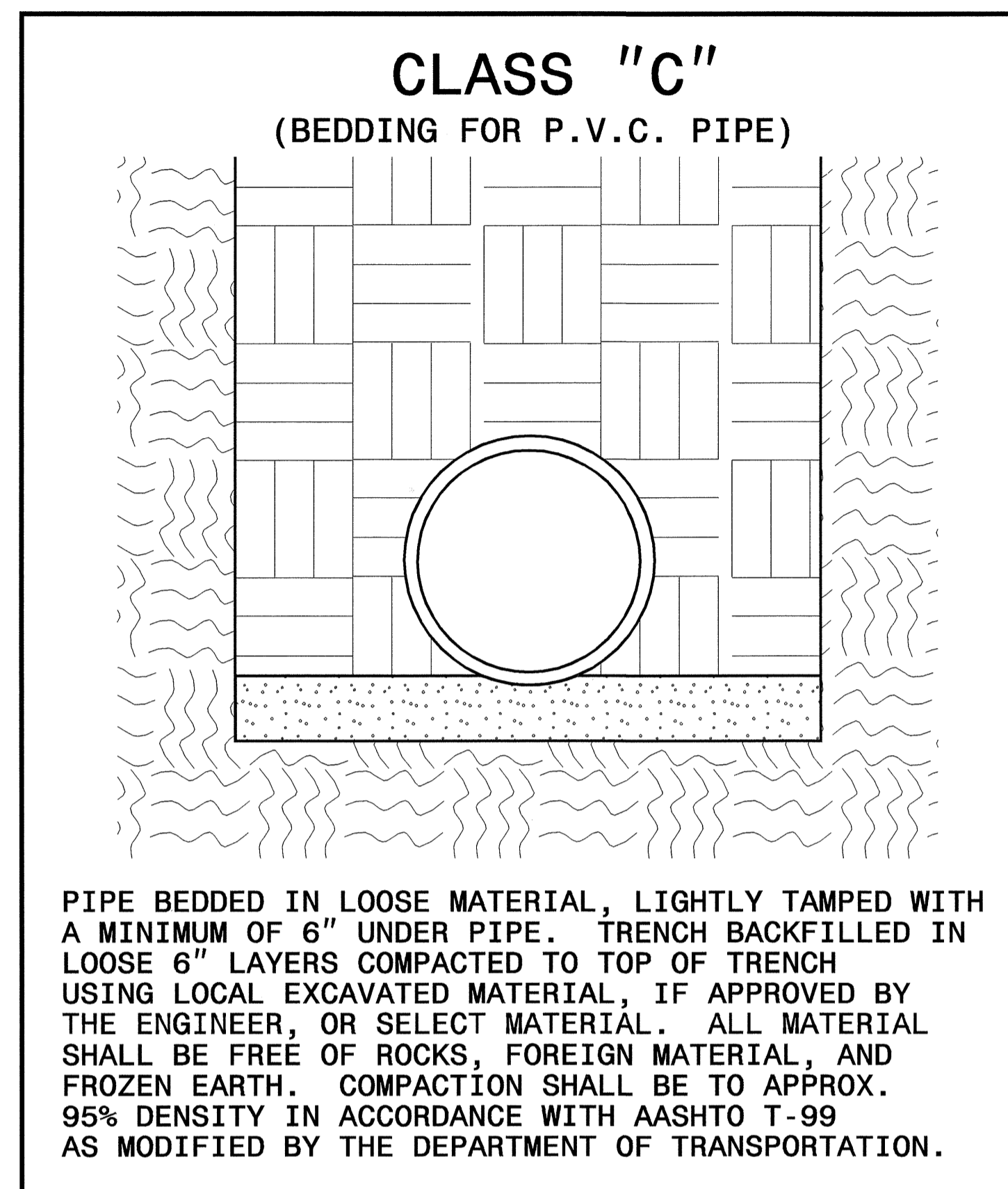
W.E. SPRULL; c/o BB&T CO. TRUSTEES

NAD 83

[Hatched Area] DENOTES TEMP. IMPACTS IN WETLANDS
 [Diagonal Lines] DENOTES FILL IN WETLAND

HYDRO NOTE:
 WETLANDS WILL DO THE TREATING OF WATER ON LATERAL V-DITCHES.
 BUFFER ZONES NOT APPLICABLE PER PDEA. SYSTEM IS FUNCTIONING AS A WETLAND.

UTILITY CONSTRUCTION



MAXIMUM TRENCH WIDTH
AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

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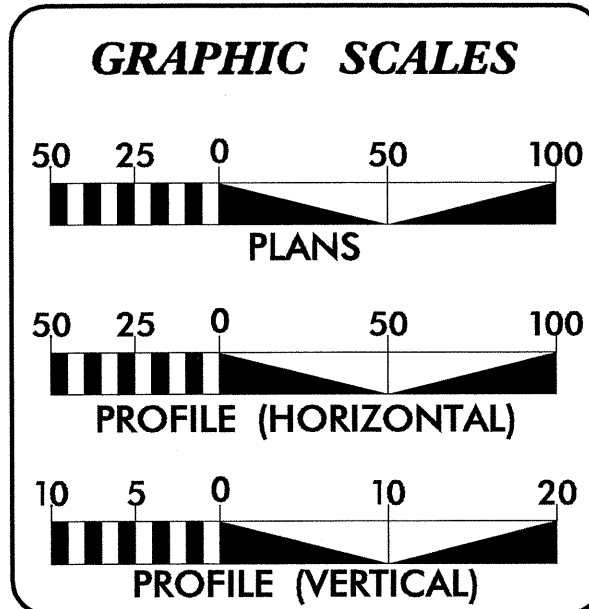
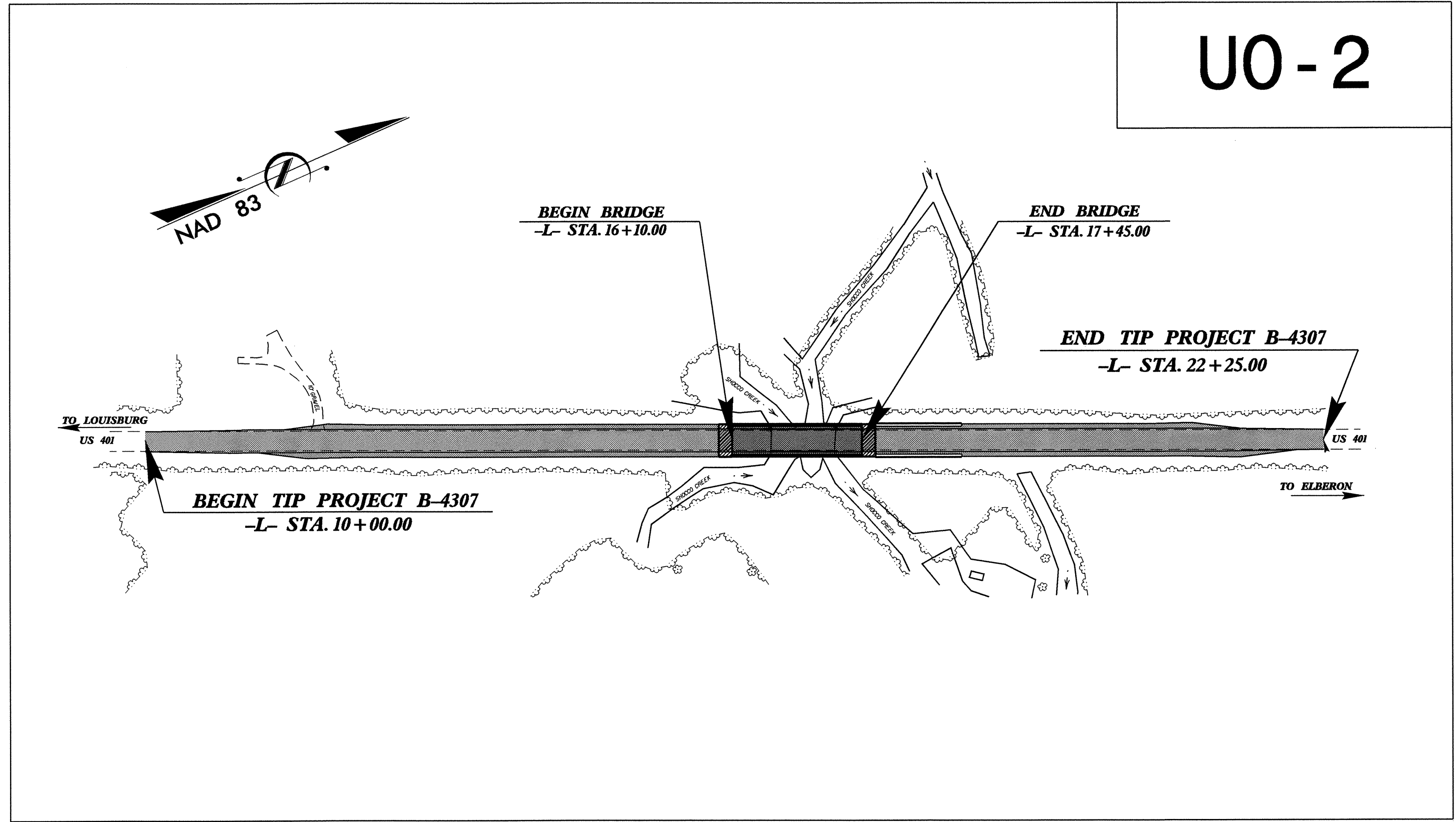
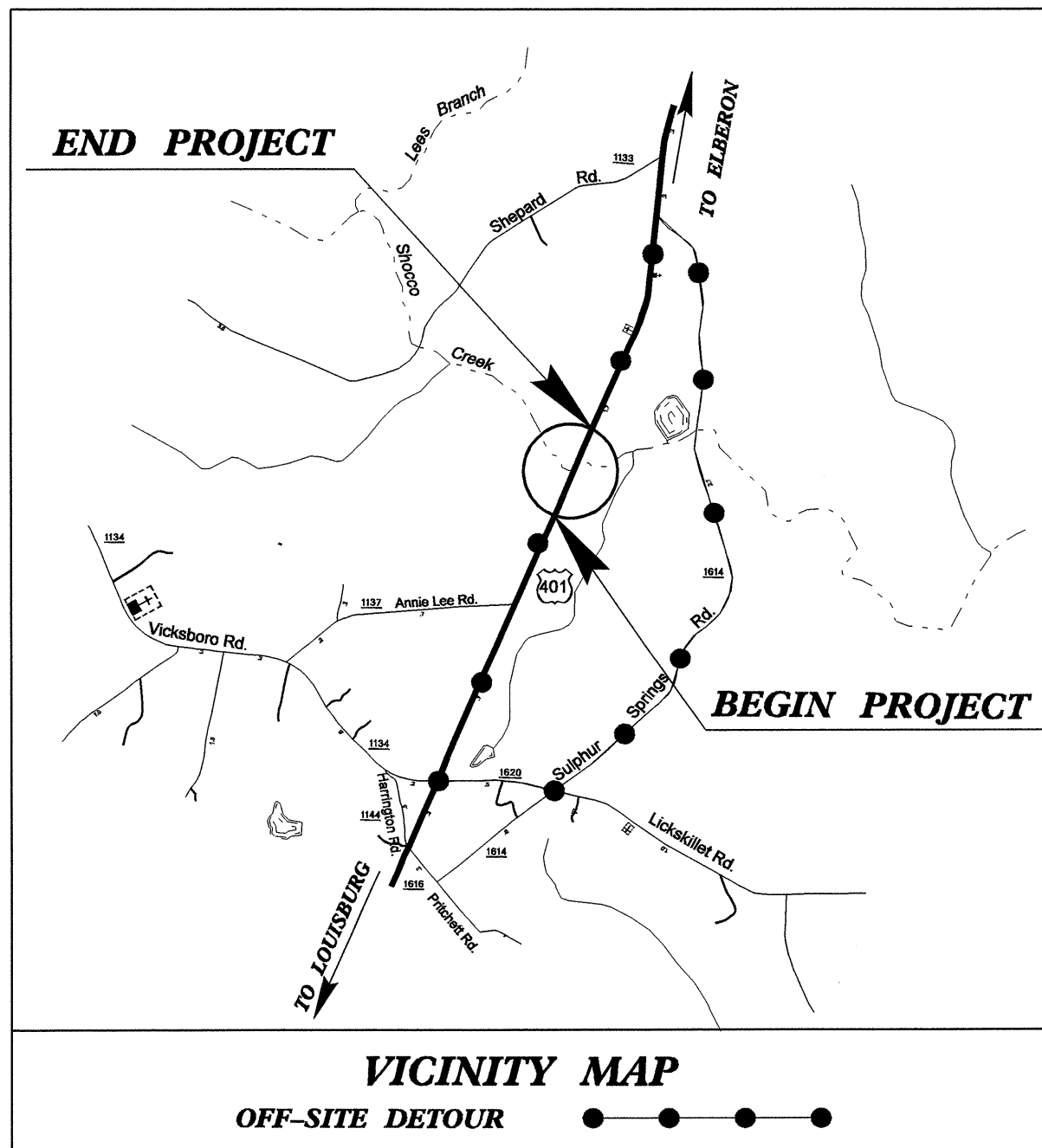
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
B-4307	UO-1

**UTILITIES BY OTHERS PLANS
WARREN COUNTY**

LOCATION: BRIDGE NO.4 OVER SHOCCO CREEK AND APPROACHES ON US 401
TYPE OF WORK: UTILITY RELOCATION



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

(1) EMBARQ - TELEPHONE

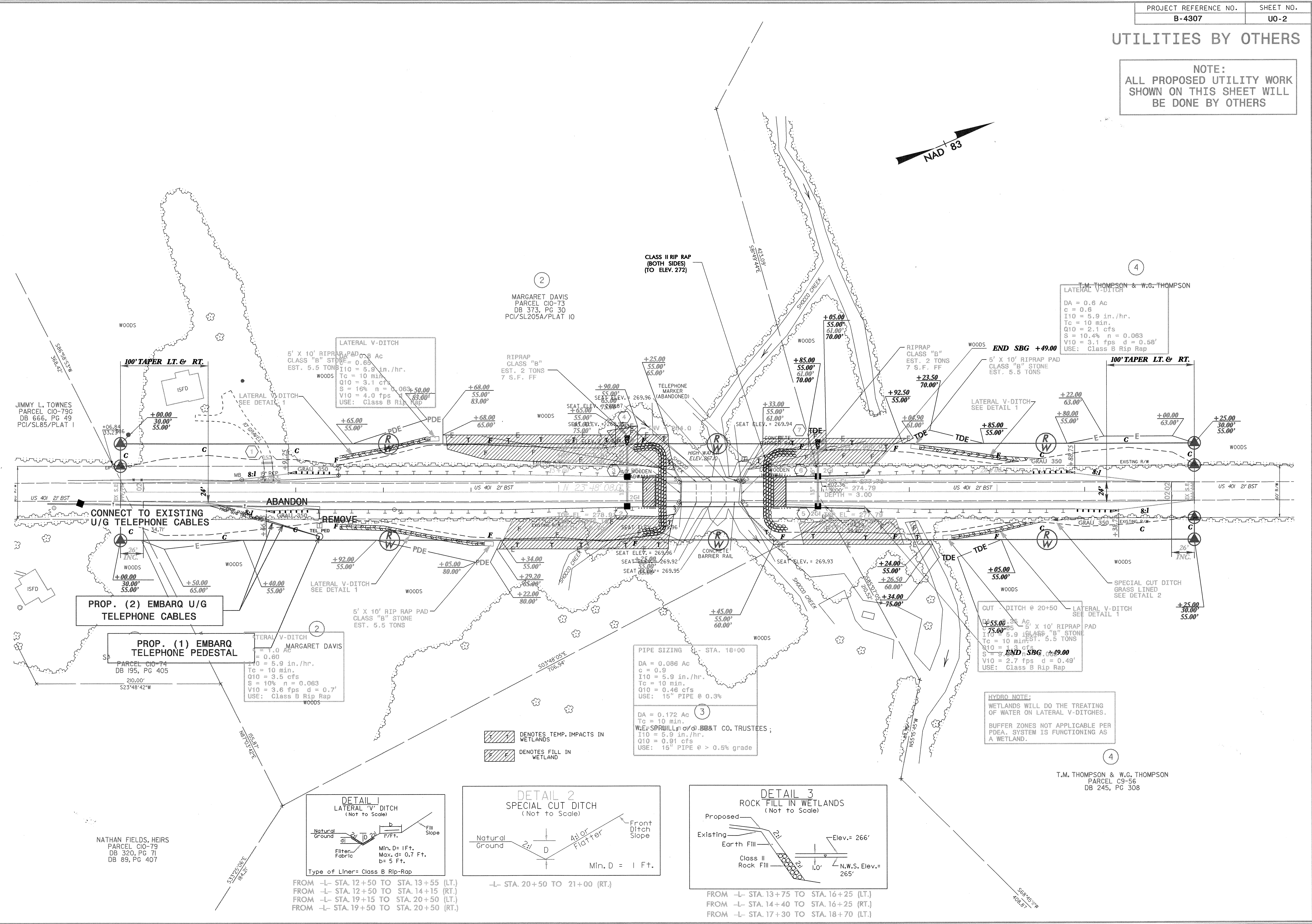
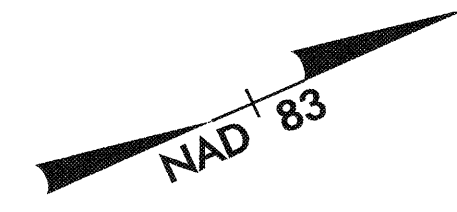
PREPARED IN THE OFFICE OF:
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Donald Propper UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



JIMMY L. TOWNES
PARCEL CIO-79C
DB 666, PG 49
PCI/SL85/PLAT 1

MARGARET DAVIS
PARCEL CIO-73
DB 373, PG 30
PCI/SL205A/PLAT 10

T.M. THOMPSON & W.G. THOMPSON
LATERAL V-DITCH
DA = 0.6 Ac
c = 0.8
I10 = 5.9 in./hr.
Tc = 10 min.
Q10 = 2.1 cfs
S = 10.4% n = 0.063
V10 = 3.1 fps d = 0.58'
USE: Class B Rip Rap

PROP. (2) EMBARQ U/G
TELEPHONE CABLES

PROP. (1) EMBARQ
TELEPHONE PEDESTAL

NATHAN FIELDS, HEIRS
PARCEL CIO-79
DB 320, PG 71
DB 89, PG 407

LATERAL V-DITCH
MARGARET DAVIS
DA = 1.0 Ac
c = 0.8
I10 = 5.9 in./hr.
Tc = 10 min.
Q10 = 3.5 cfs
S = 10% n = 0.063
V10 = 3.6 fps d = 0.7'
USE: Class B Rip Rap

LATERAL V-DITCH
5' X 10' RIPRAP PAD
CLASS "B" STONE
EST. 5.5 TONS
I10 = 5.9 in./hr.
Tc = 10 min.
Q10 = 3.1 cfs
S = 16% n = 0.063
V10 = 4.0 fps d = 0.58'
USE: Class B Rip Rap

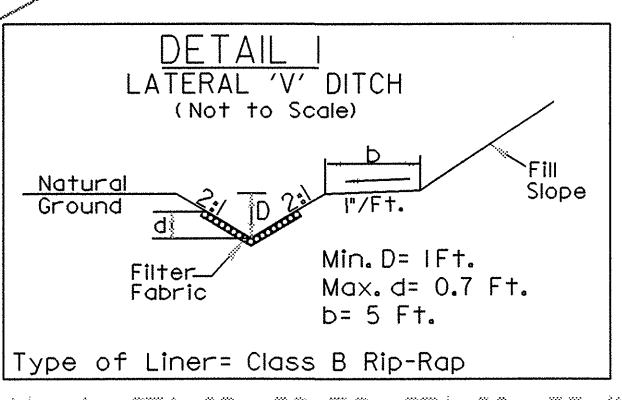
/// DENOTES TEMP. IMPACTS IN WETLANDS
/// DENOTES FILL IN WETLAND

PIPE SIZING - STA. 18+00
DA = 0.086 Ac
c = 0.9
I10 = 5.9 in./hr.
Tc = 10 min.
Q10 = 0.46 cfs
USE: 15" PIPE @ 0.3%

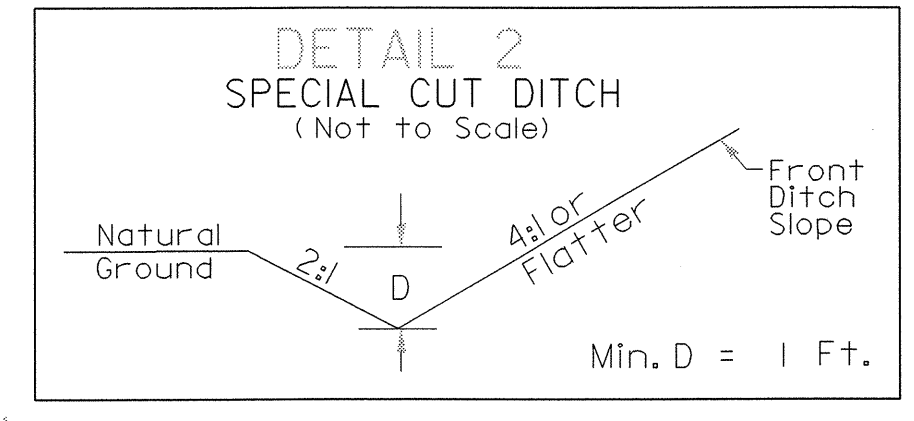
DA = 0.172 Ac
c = 0.9
I10 = 5.9 in./hr.
Tc = 10 min.
Q10 = 0.91 cfs
USE: 15" PIPE @ > 0.5% grade

HYDRO NOTE:
WETLANDS WILL DO THE TREATING
OF WATER ON LATERAL V-DITCHES.
BUFFER ZONES NOT APPLICABLE PER
PDEA. SYSTEM IS FUNCTIONING AS
A WETLAND.

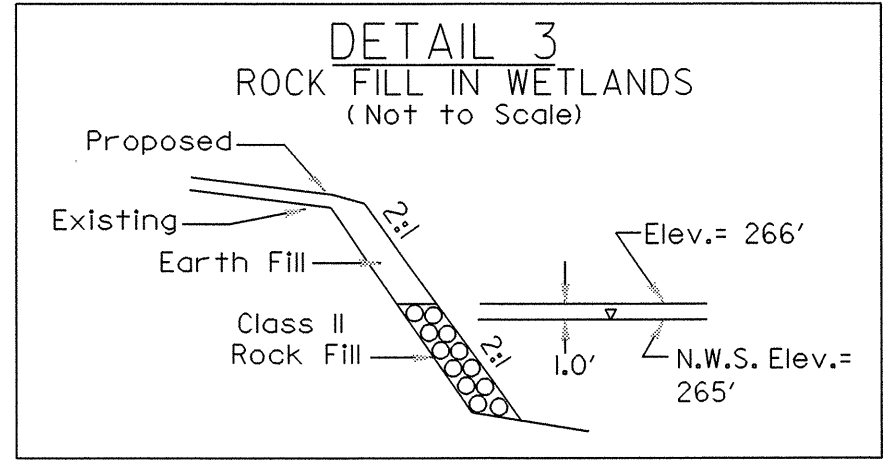
T.M. THOMPSON & W.G. THOMPSON
PARCEL C9-56
DB 245, PG 308



FROM -L STA. 12+50 TO STA. 13+55 (LT.)
FROM -L STA. 12+50 TO STA. 14+15 (RT.)
FROM -L STA. 19+15 TO STA. 20+50 (LT.)
FROM -L STA. 19+50 TO STA. 20+50 (RT.)



-L STA. 20+50 TO 21+00 (RT.)



FROM -L STA. 13+75 TO STA. 16+25 (LT.)
FROM -L STA. 14+40 TO STA. 16+25 (RT.)
FROM -L STA. 17+30 TO STA. 18+70 (LT.)