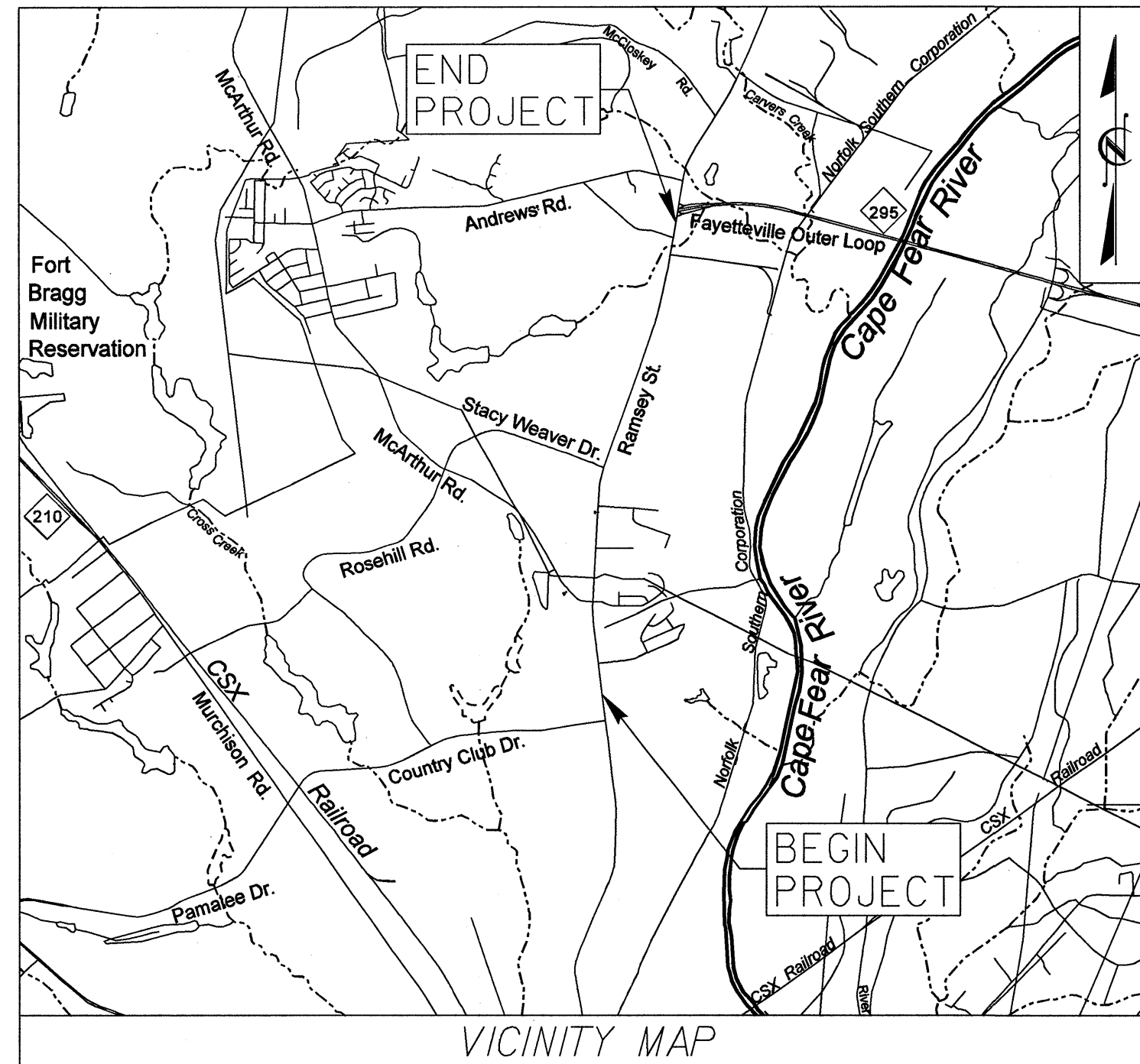


TIP PROJECT: W-5000

CONTRACT: C202179

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



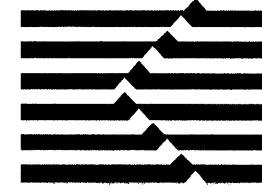
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLAN
CUMBERLAND COUNTY**

**LOCATION: RAMSEY STREET (US 401) FROM COUNTRY CLUB ROAD
TO NORTH OF FARMERS ROAD IN FAYETTEVILLE**

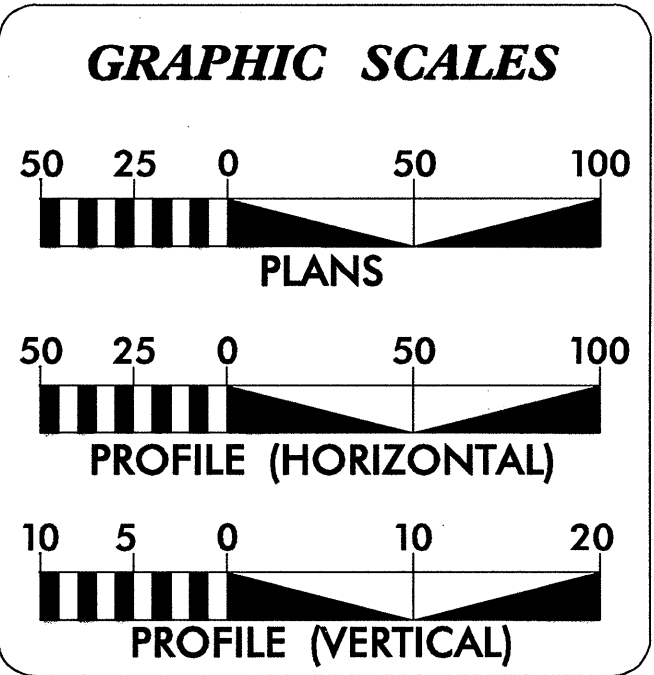
TYPE OF WORK: AERIAL POWER, TELEPHONE AND CATV.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5000	UO-1	



CIVIL ENGINEERS
ENVIRONMENTAL - CEI
LAND SURVEYING
SUBSURFACE UTILITY
ENGINEERING

SUITE 220, LANDMARK CENTER II,
4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCI.COM

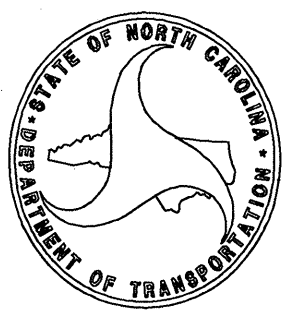


INDEX OF SHEETS

SHEET No.	DESCRIPTION
UO-1	TITLE SHEET
UO-2-12	UTILITIES BY OTHERS PLAN

INDEX OF SHEETS

(1) PUBLIC WORK COMMISSION	POWER
(2) PROGRESS ENERGY	POWER
(3) TIME WARNER	CATV
(4) CENTURY LINK	TELEPHONE



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

1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 259-4128
FAX (919) 259-4119

ROGER WORTHINGTON, P.E. UTILITY SECTION ENGINEER

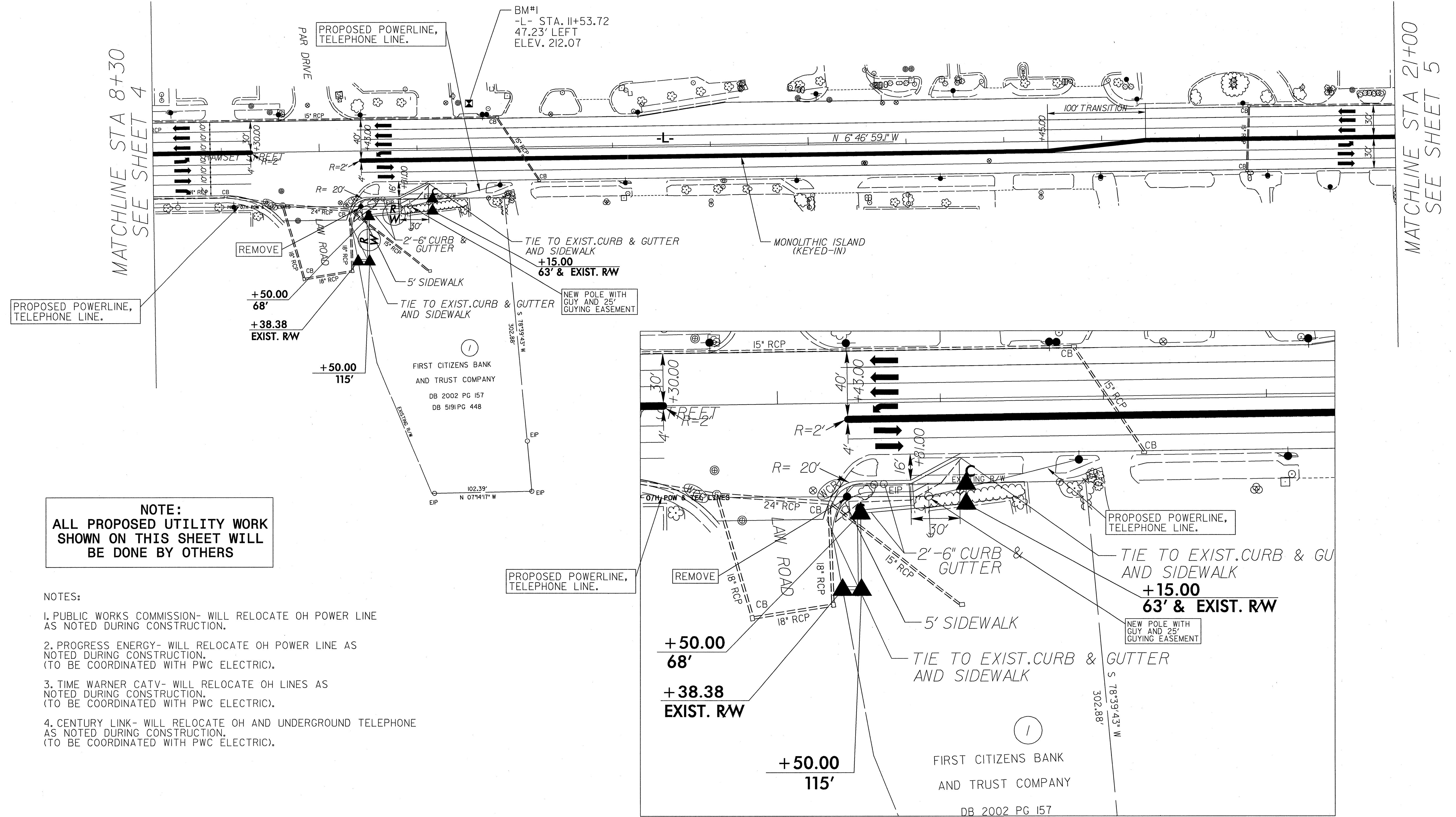
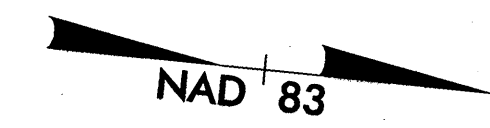
RICHY NARRON UTILITY COORDINATION CONSULTANT

5/14/99

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 ASSOCIATES OF N.C.

CIVIL ENGINEERS
 ENVIRONMENTAL - CEI
 LAND SURVEYING
 SUBSURFACE UTILITY
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 4601 SIX FORKS ROAD
 RALEIGH, NORTH CAROLINA 27609
 (919) 783-9214
 WWW.KCI.COM



PROPOSED POWERLINE,
 TELEPHONE LINE.

REMOVE
 +50.00
 68'
 +38.38
 EXIST. RW

+50.00
 115'
 FIRST CITIZENS BANK
 AND TRUST COMPANY
 DB 2002 PG 157
 DB 5191 PG 448

PROPOSED POWERLINE,
 TELEPHONE LINE.

+50.00
 68'
 +38.38
 EXIST. RW

+50.00
 115'

PROPOSED POWERLINE,
 TELEPHONE LINE.

+15.00
 63' & EXIST. RW

NEW POLE WITH
 GUY AND 25'
 GUYING EASEMENT

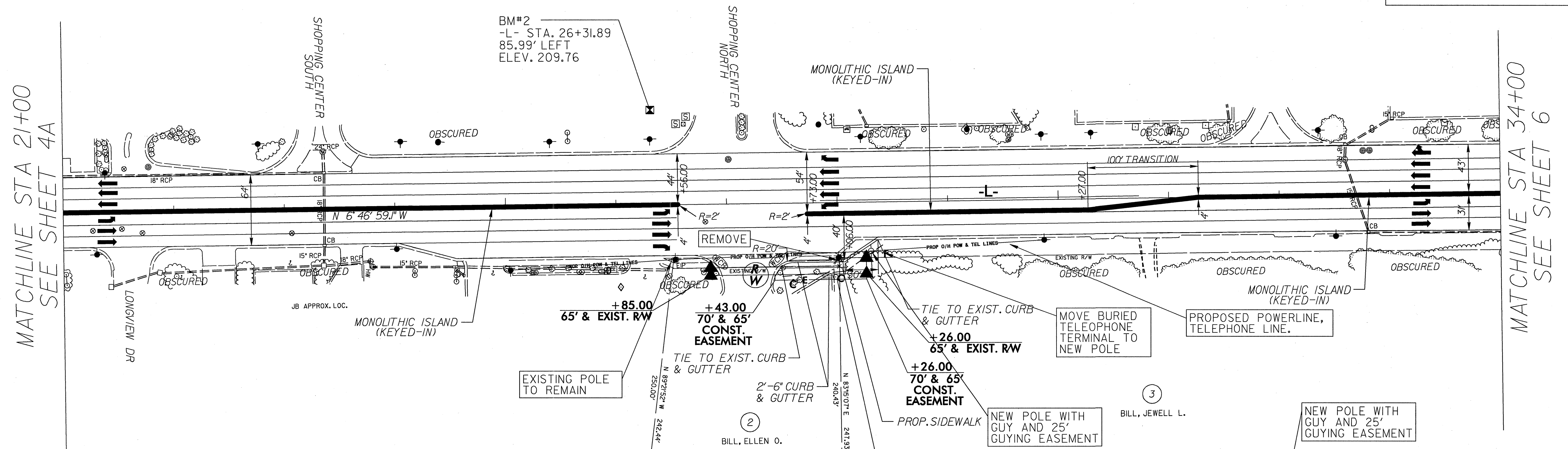
FIRST CITIZENS BANK
 AND TRUST COMPANY
 DB 2002 PG 157

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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

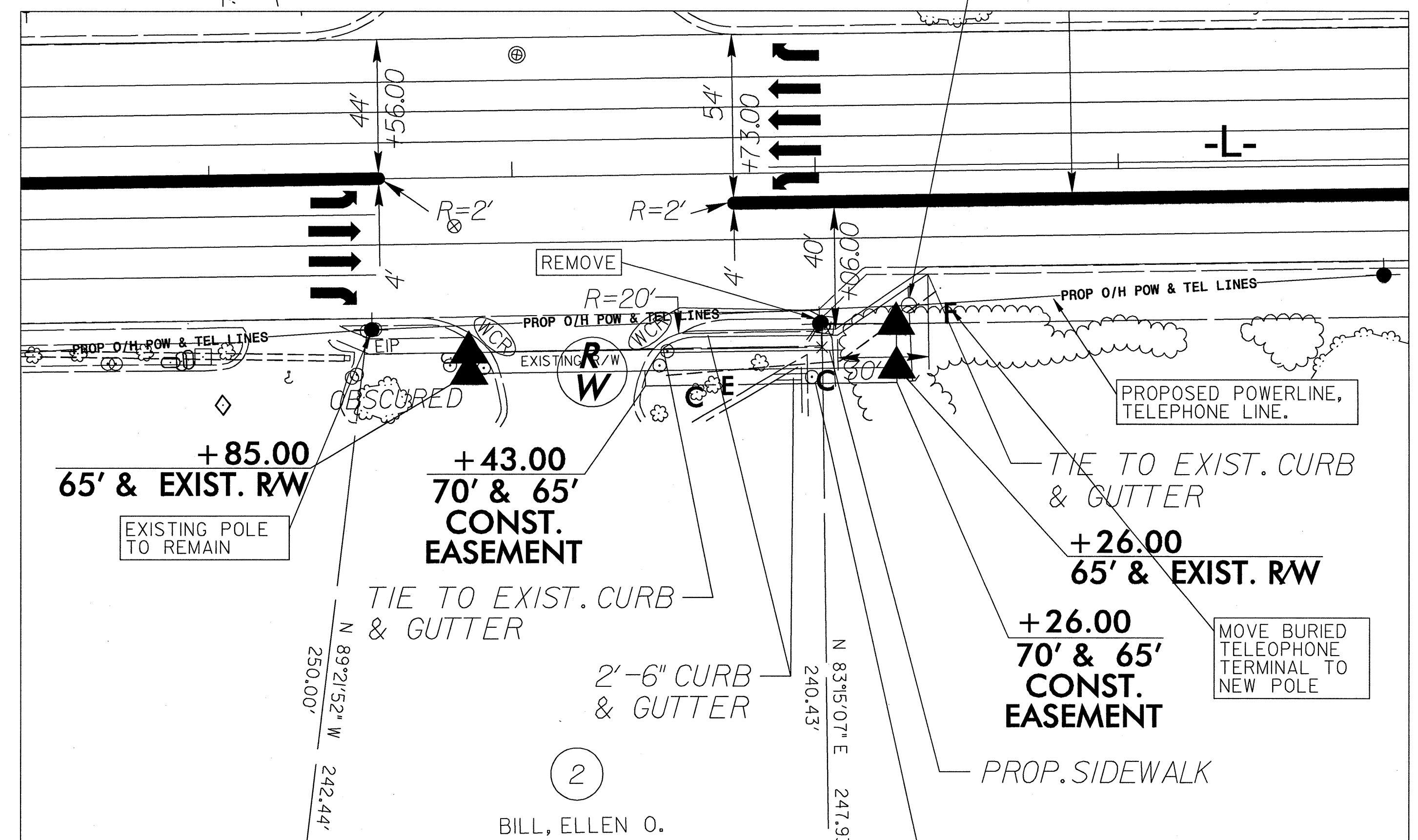
INTERSECTION DETAIL @ LAW ROAD
 SCALE: 1"=30'

SEE SHEET 18A FOR PROFILE



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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).



SEE SHEET 18A FOR PROFILE

INTERSECTION DETAIL @ STA 29+00 +/-
 SCALE: 1"=30'

5/14/99

NO UTILITY CONFLICTS ON SHEET U-4



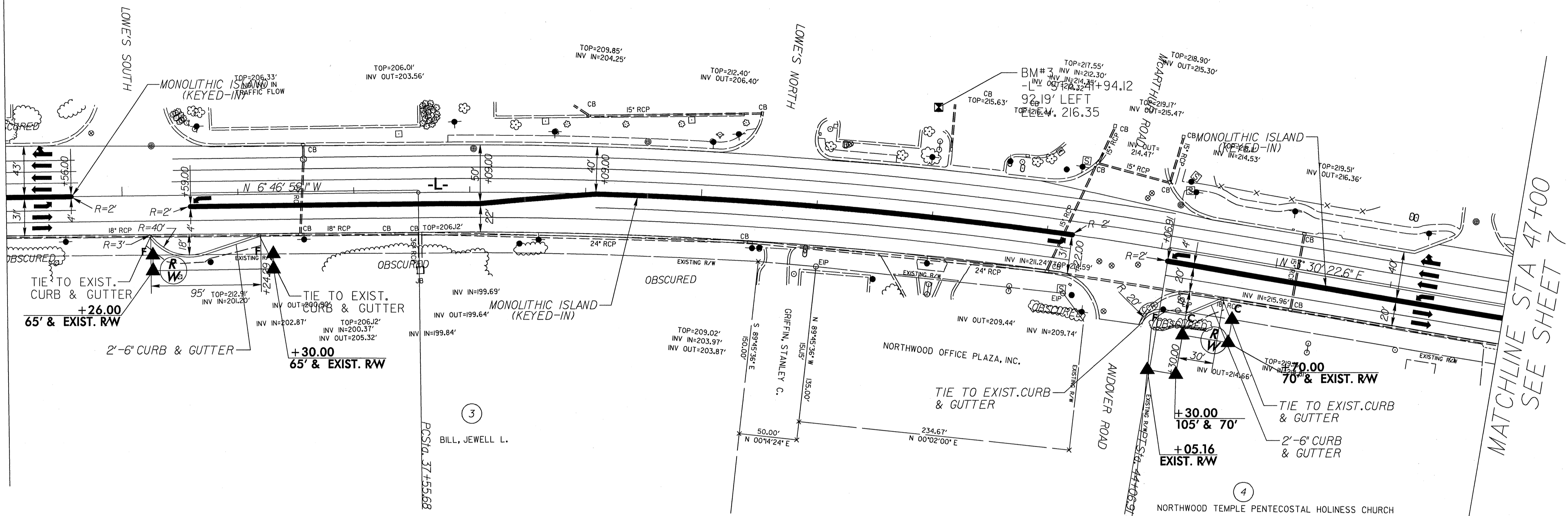
ARCADIS
G & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
89 Corporate Center Drive, Suite 300
Raleigh, NC 27601-5013
Tel: 919/854-2822 Fax: 919/854-5448

PROJECT REFERENCE NO. W-5000
SHEET NO. U-4

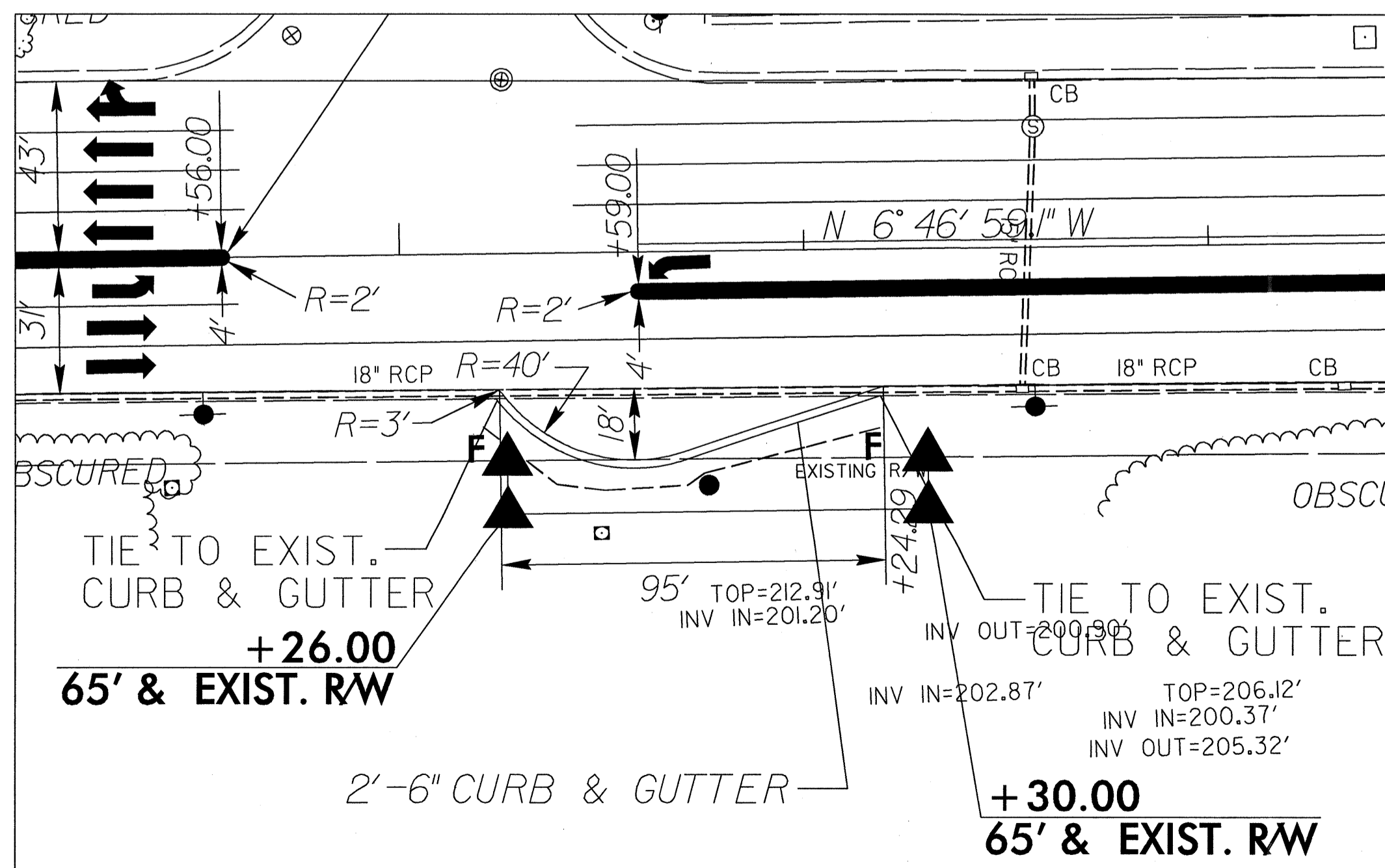
KCI
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CIVIL ENGINEERS
ENVIRONMENTAL - CEI
LAND SURVEYING
SUBSURFACE UTILITY
ENGINEERING
SUITE 220, LANDMARK CENTER II,
4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCICL.COM

-L-
PI Sta 40+82.19
 $\Delta = 10^\circ 21' 52.9''$ (RT)
D = 1'35" 29.6"
L = 651.23'
T = 326.51'
R = 3,600.00'

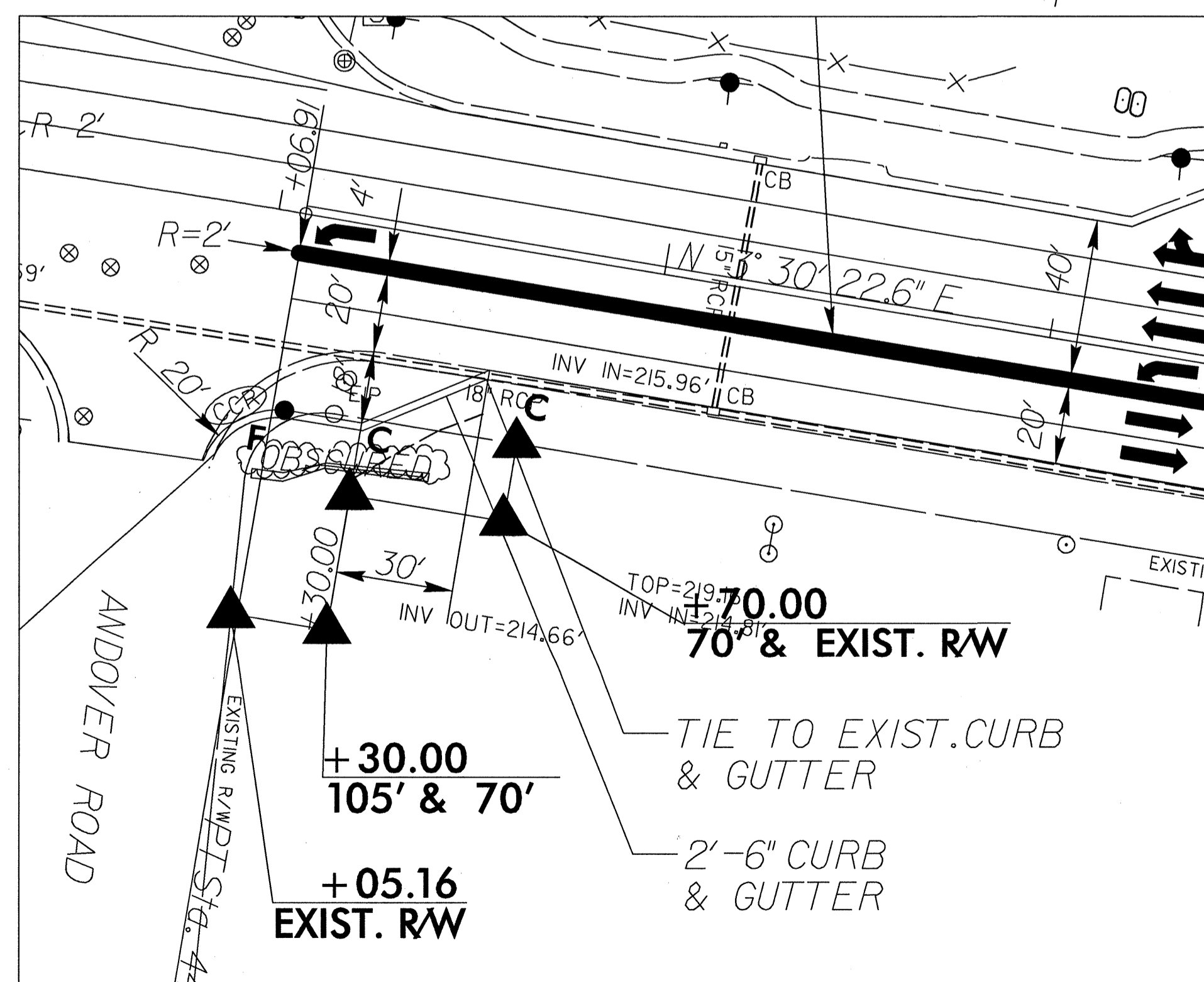
MATCHLINE STA 34+00
SEE SHEET 5



MATCHLINE STA 47+00
SEE SHEET 7

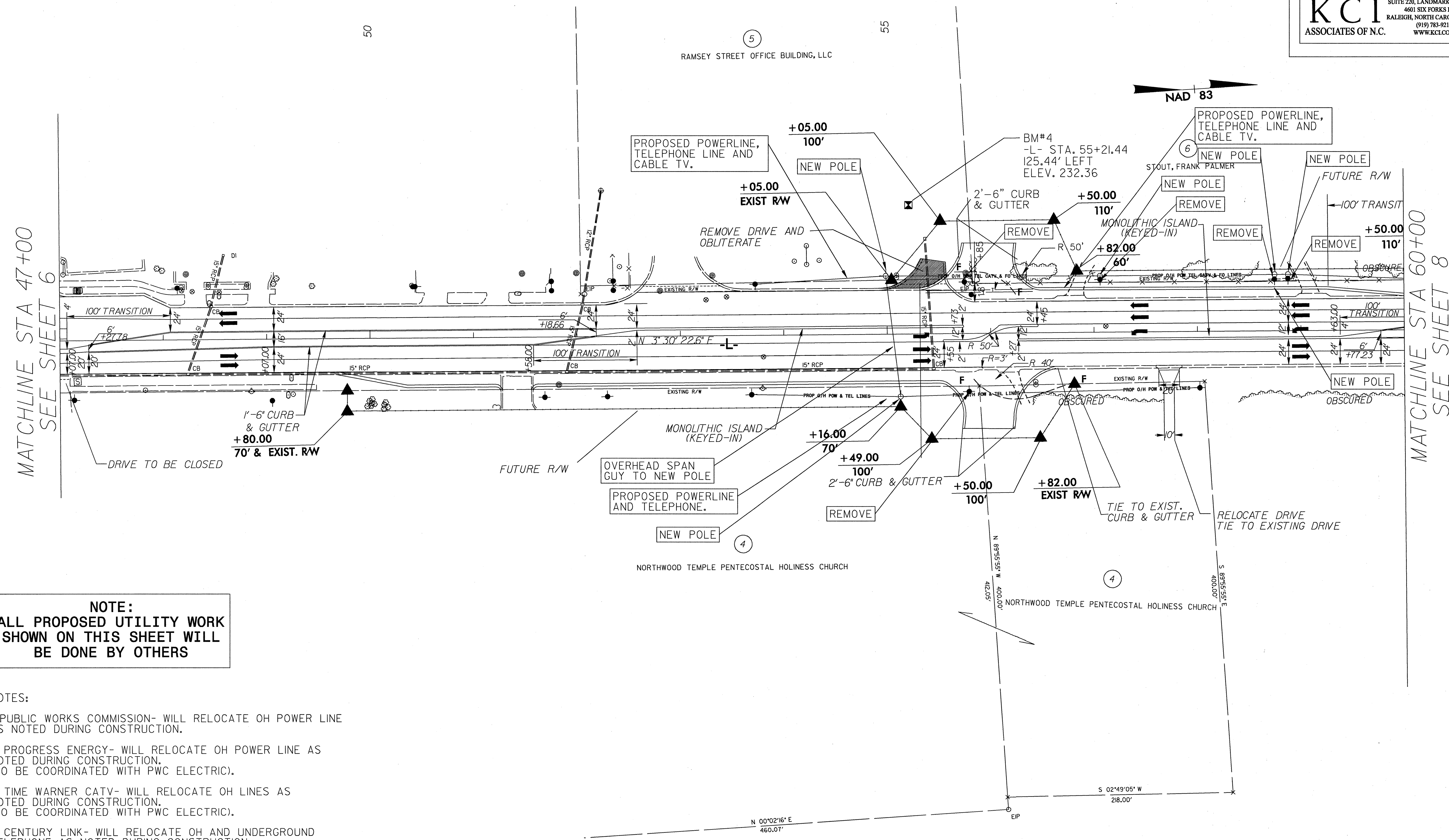


INTERSECTION DETAIL @ STA. 35+50 +/-
SCALE: 1"=30'



INTERSECTION DETAIL @ ANDOVER ROAD
SCALE: 1"=30'

SEE SHEETS 18A & 19 FOR PROFILE



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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

SEE SHEET 19 FOR PROFILE

5/14/99

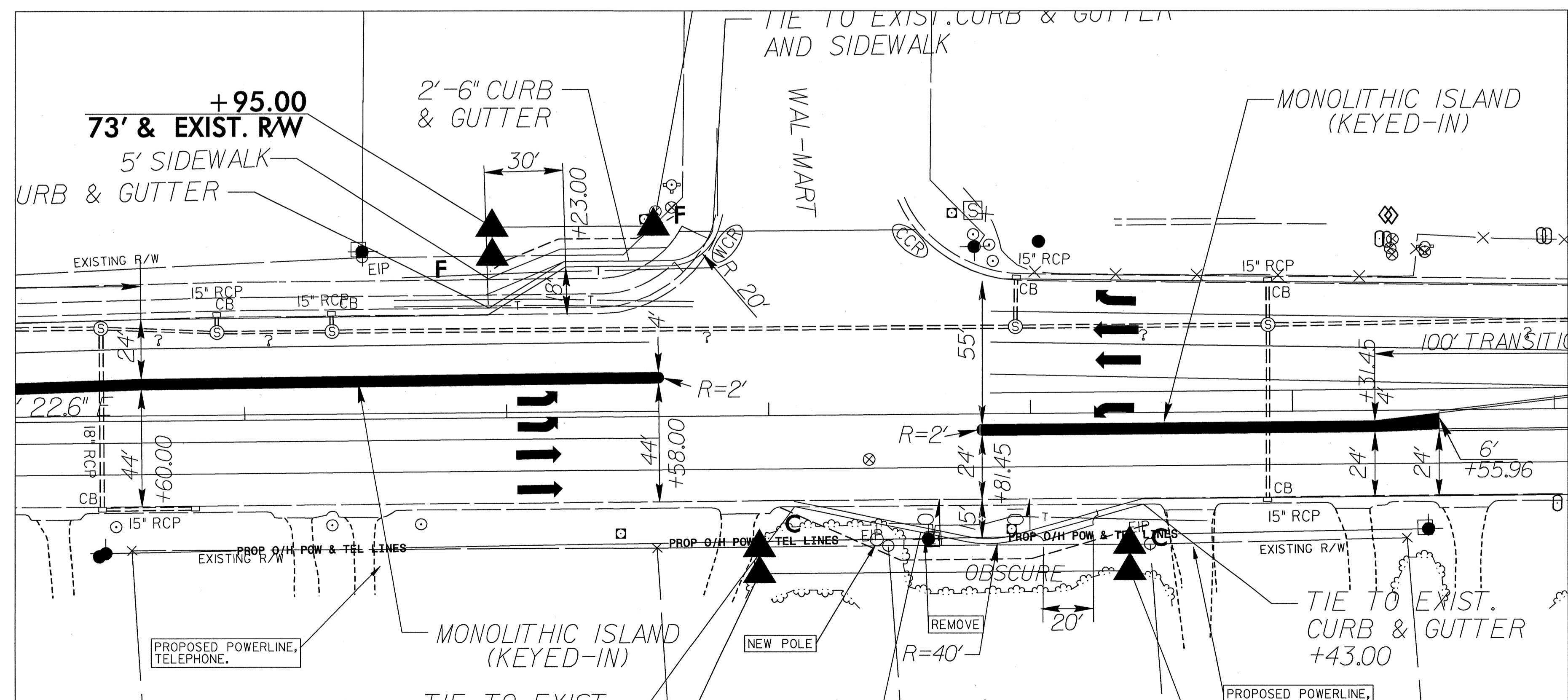
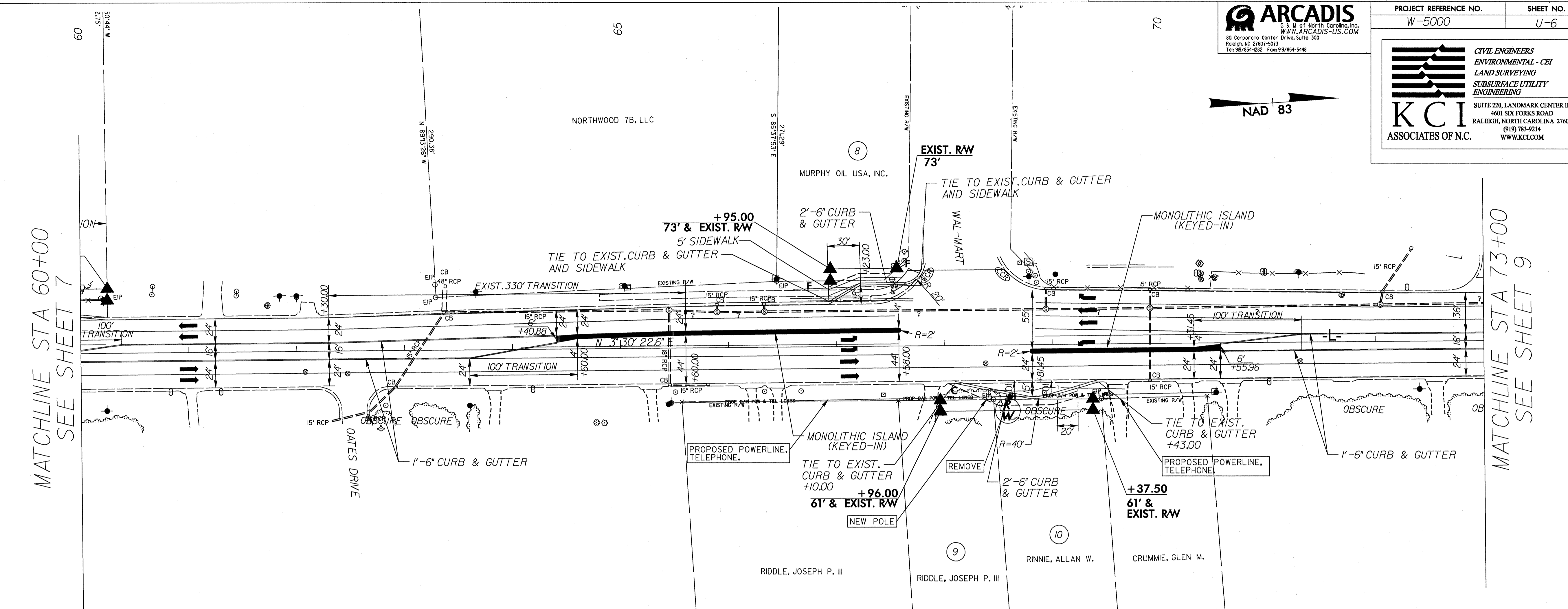


PROJECT REFERENCE NO. W-5000 SHEET NO. U-6



MATCHLINE STA 60+00
SEE SHEET 7

MATCHLINE STA 73+00
SEE SHEET 9



INTERSECTION DETAIL @ WALMART
SCALE: 1"=30'

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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

SEE SHEETS 19 & 20 FOR PROFILE

5/14/99



PROJECT REFERENCE NO. W-5000 SHEET NO. U-7



NAD 83

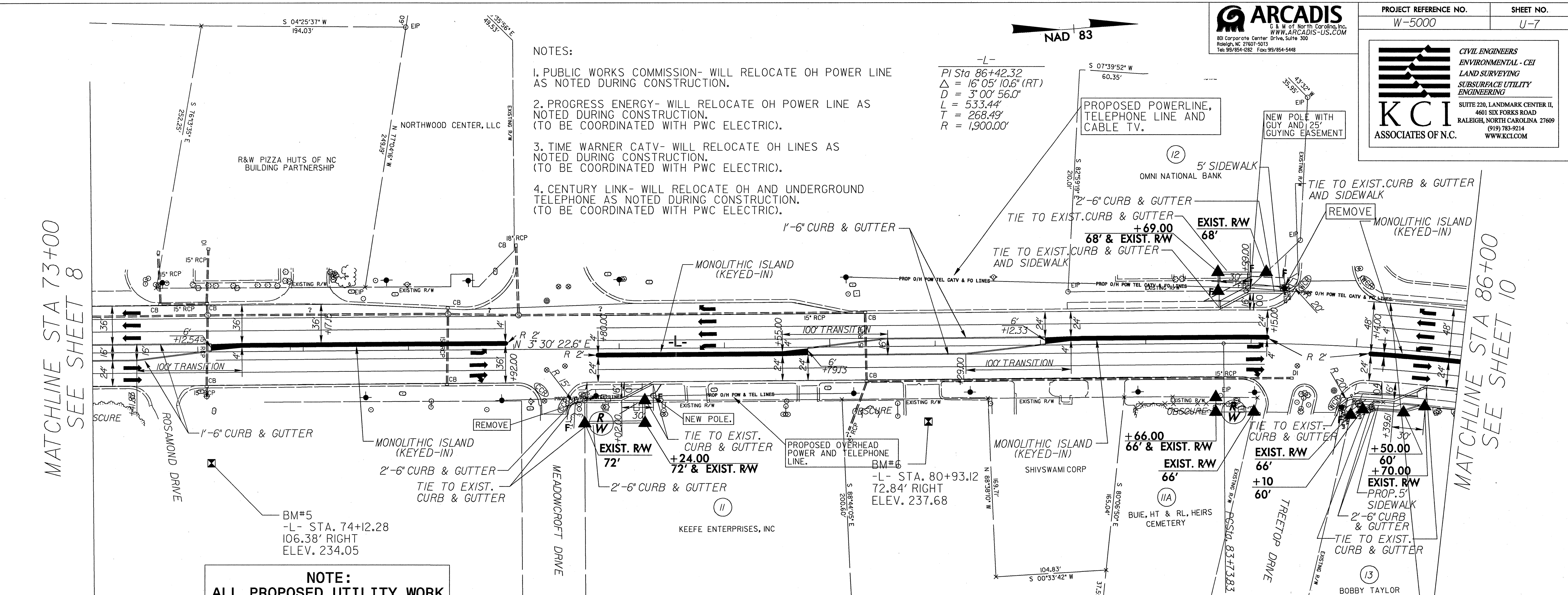
NOTES:

- 1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
- 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
- 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
- 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

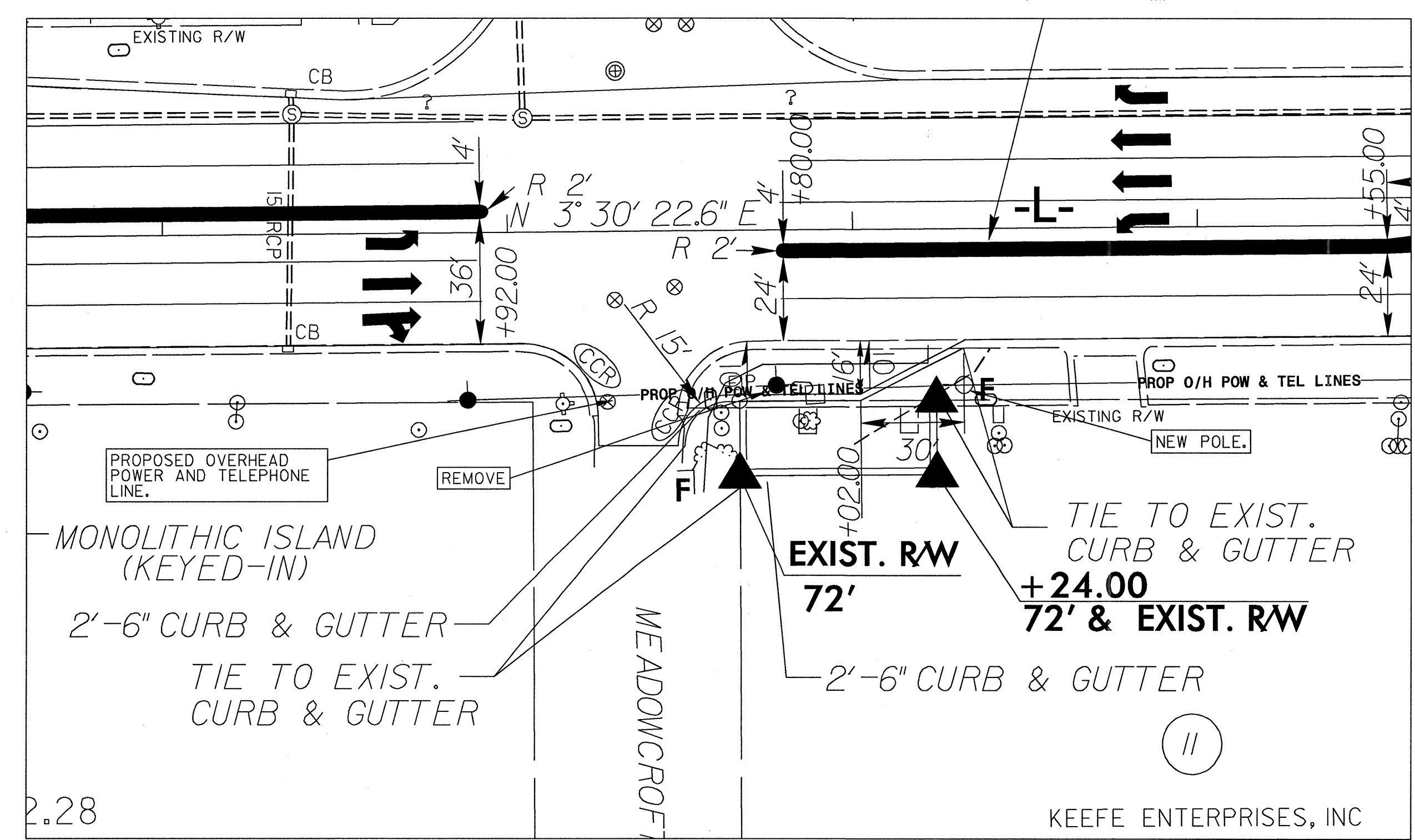
-L-
 PI Sta 86+42.32
 $\Delta = 16' 05" 10.6" (RT)$
 $D = 3' 00" 56.0"$
 $L = 533.44'$
 $T = 268.49'$
 $R = 1,900.00'$

MATCHLINE STA 73+00 SEE SHEET 8

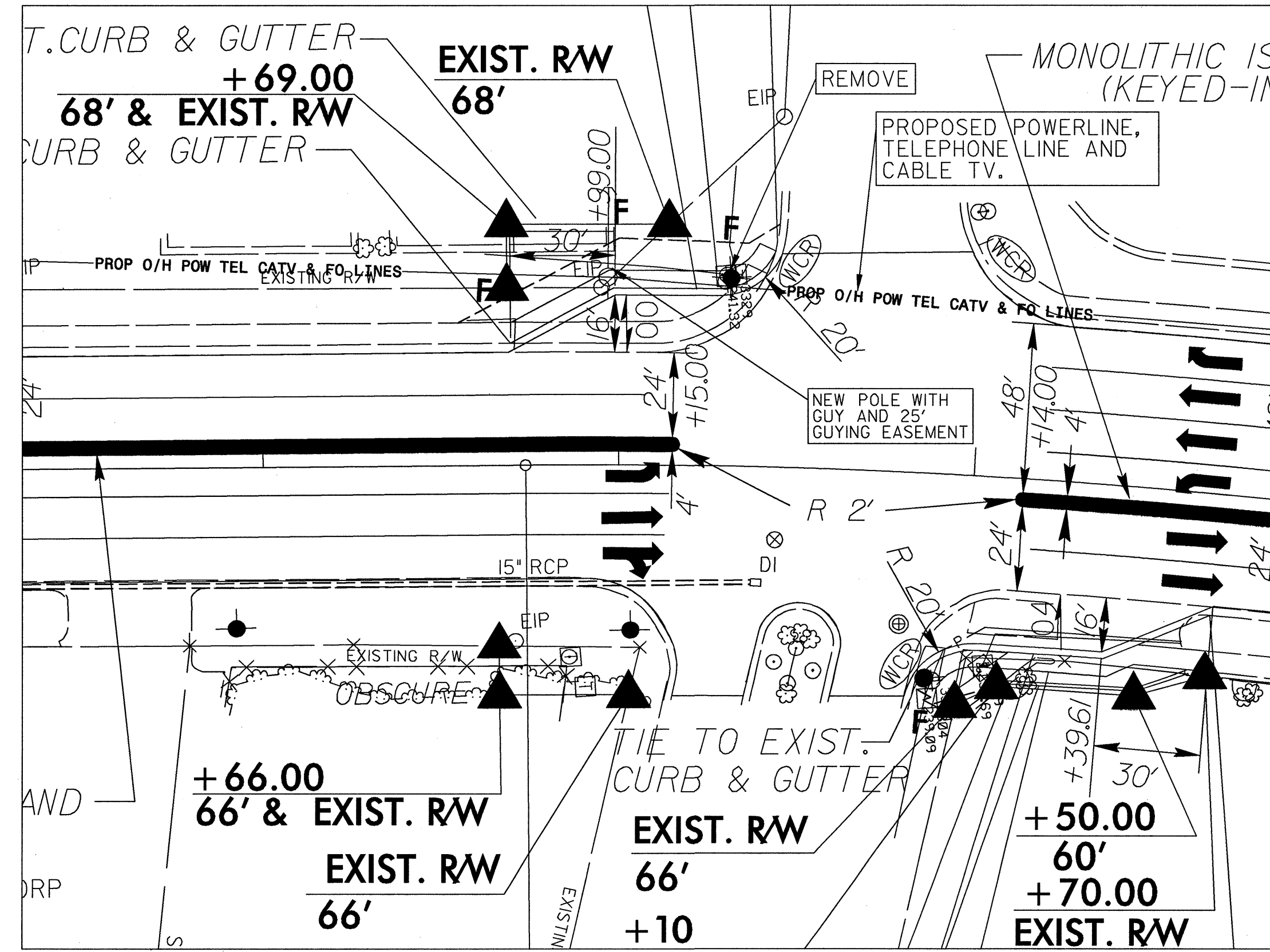
MATCHLINE STA 86+00 SEE SHEET 10



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



INTERSECTION DETAIL @ MEADOWCROFT DRIVE
 SCALE: 1"=30'



INTERSECTION DETAIL @ TREETOP DRIVE
 SCALE: 1"=30'

SEE SHEET 20 FOR PROFILE

5/14/99



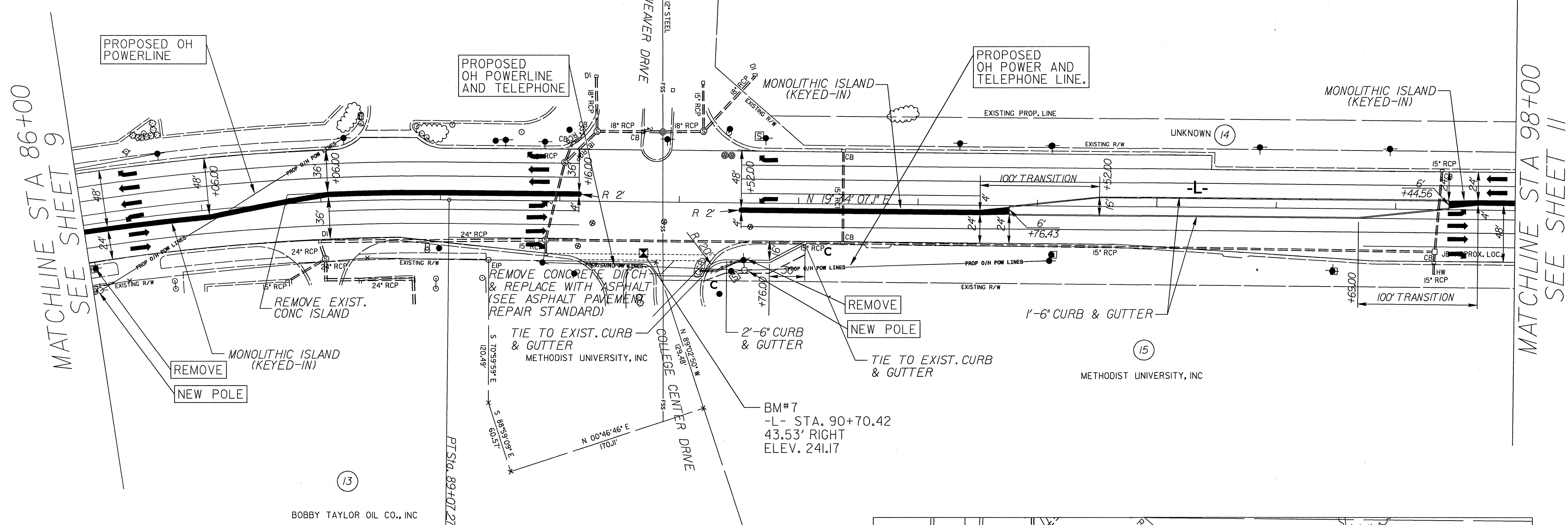
PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-8

KCI ASSOCIATES OF N.C.

CIVIL ENGINEERS
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SUBSURFACE UTILITY ENGINEERING

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RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCI.COM

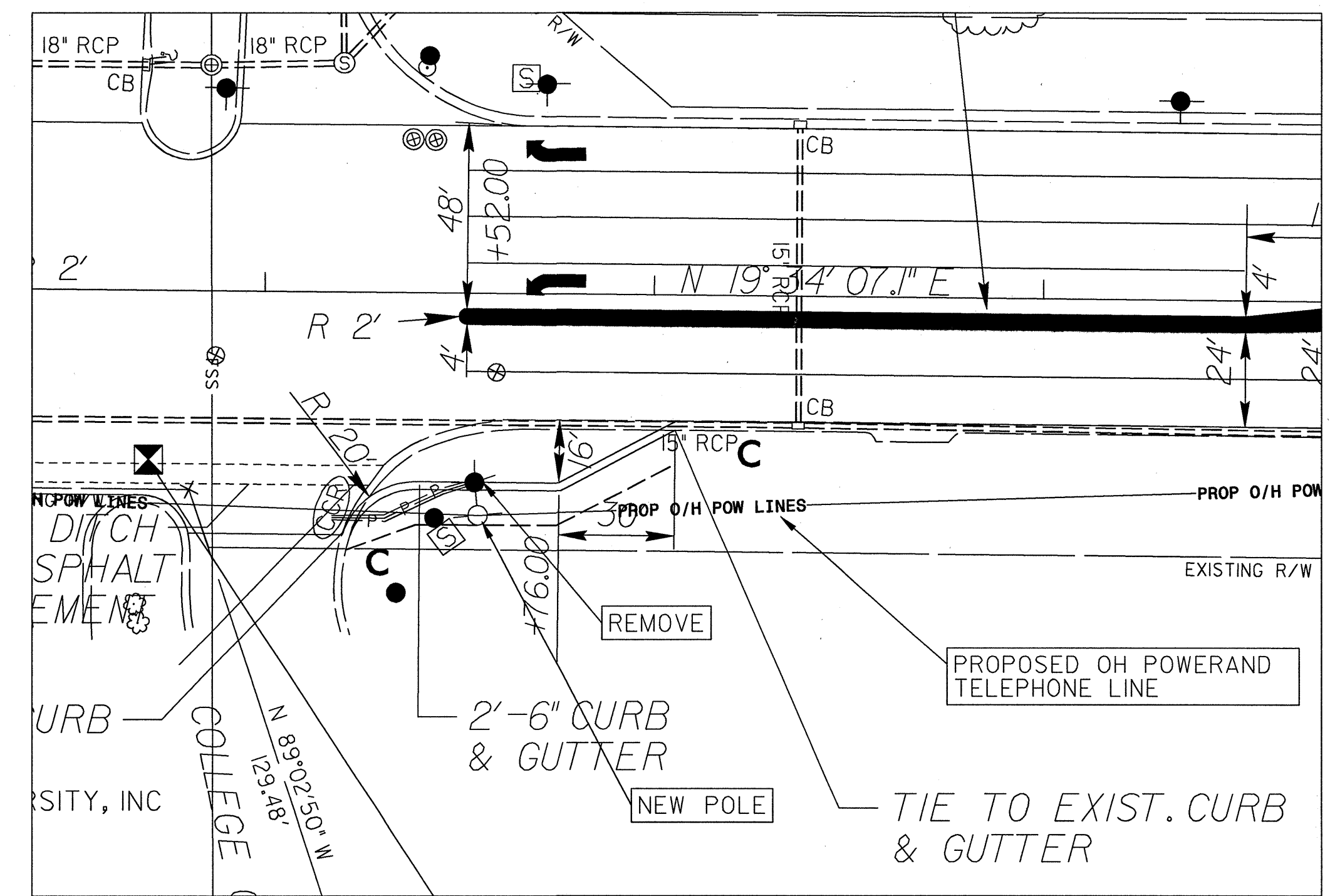
PAUL THOMPSON DEVELOPMENT CORP.



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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

-L-
PI Sta 86+42.32
Δ = 16° 05' 10.6" (RT)
D = 3° 00' 56.0"
L = 533.44'
T = 268.49'
R = 1,900.00'



INTERSECTION DETAIL @ COLLEGE CENTER DRIVE
SCALE: 1"=30'

SEE SHEET 20 & 21 FOR PROFILE

5/14/99

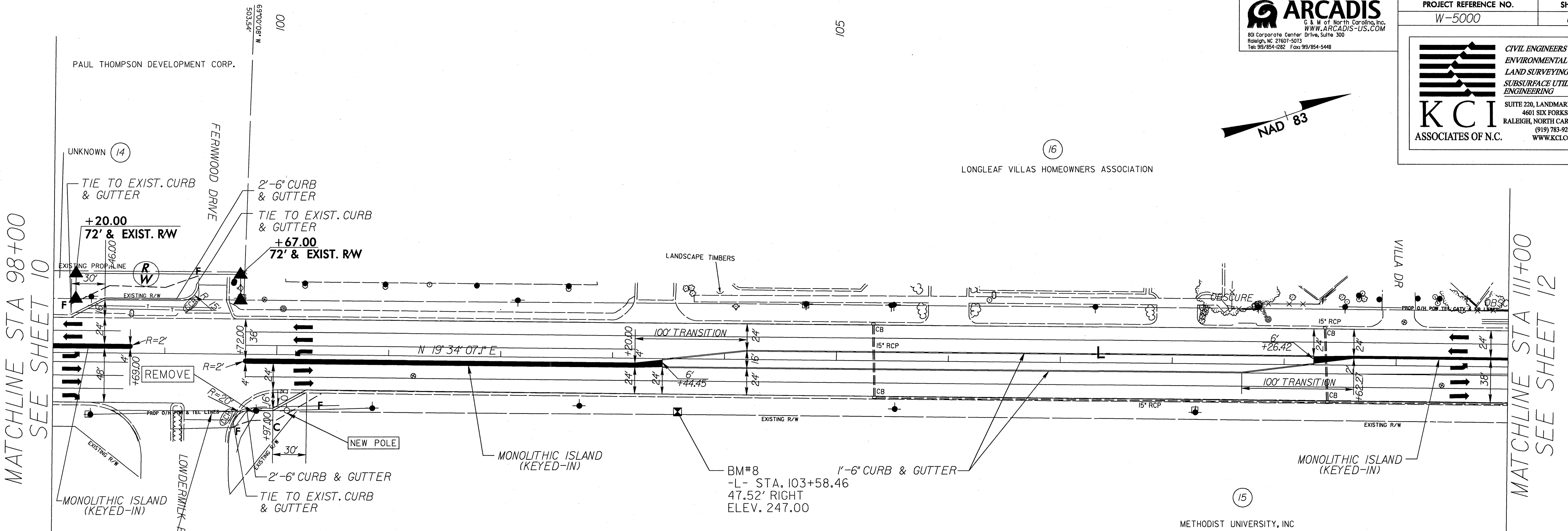


PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-9

KCI ASSOCIATES OF N.C.

CIVIL ENGINEERS
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LAND SURVEYING
SUBSURFACE UTILITY ENGINEERING

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RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCI.COM

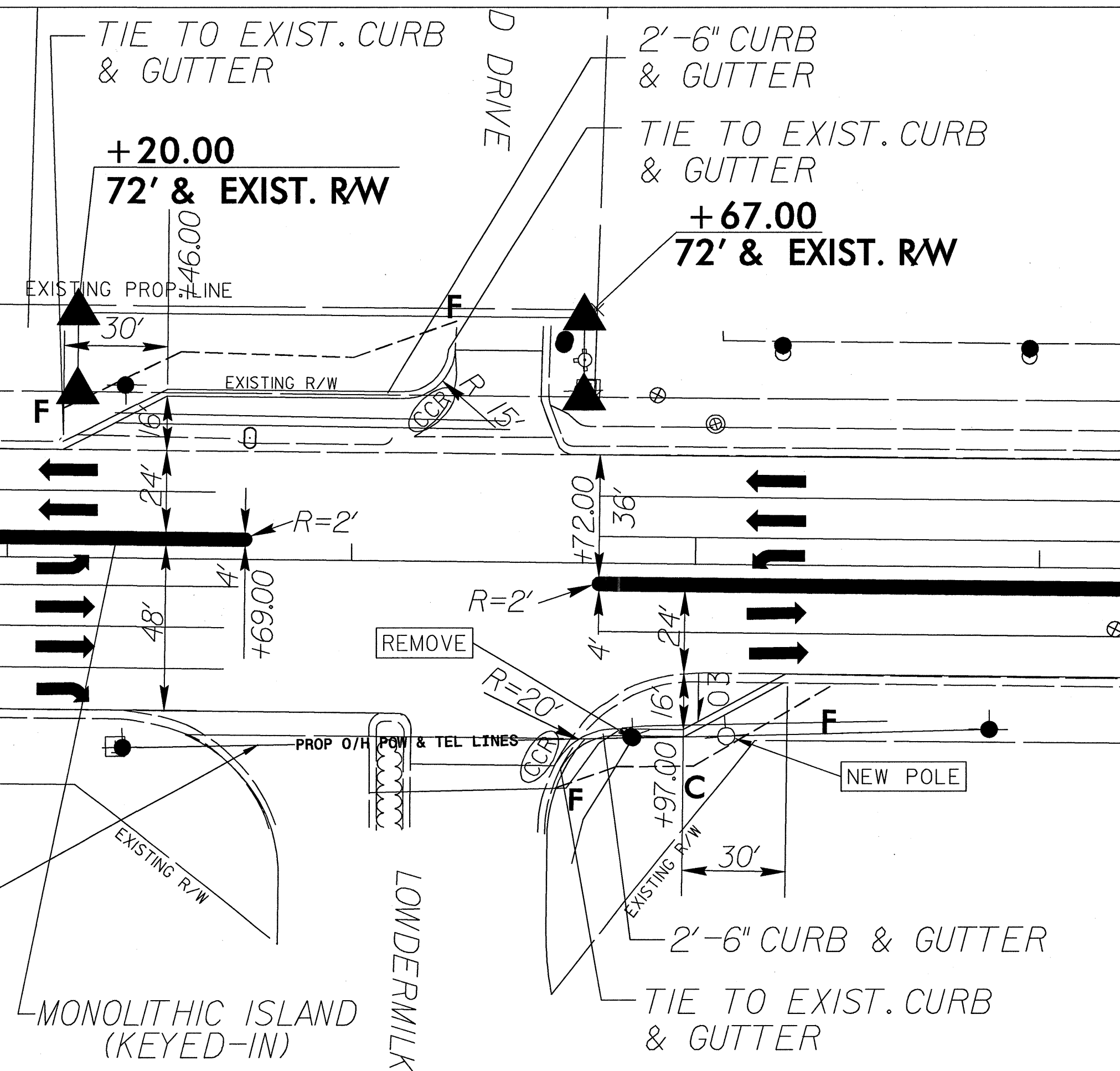


MATCHLINE STA 98+00
SEE SHEET 10

MATCHLINE STA 111+00
SEE SHEET 12

PROPOSED POWER AND TELEPHONE LINE.

PROPOSED POWER AND TELEPHONE LINE.



INTERSECTION DETAIL @ LOWDERMILK ROAD
SCALE: 1"=30'

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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

SEE SHEET 21 FOR PROFILE

5/14/99

115

120

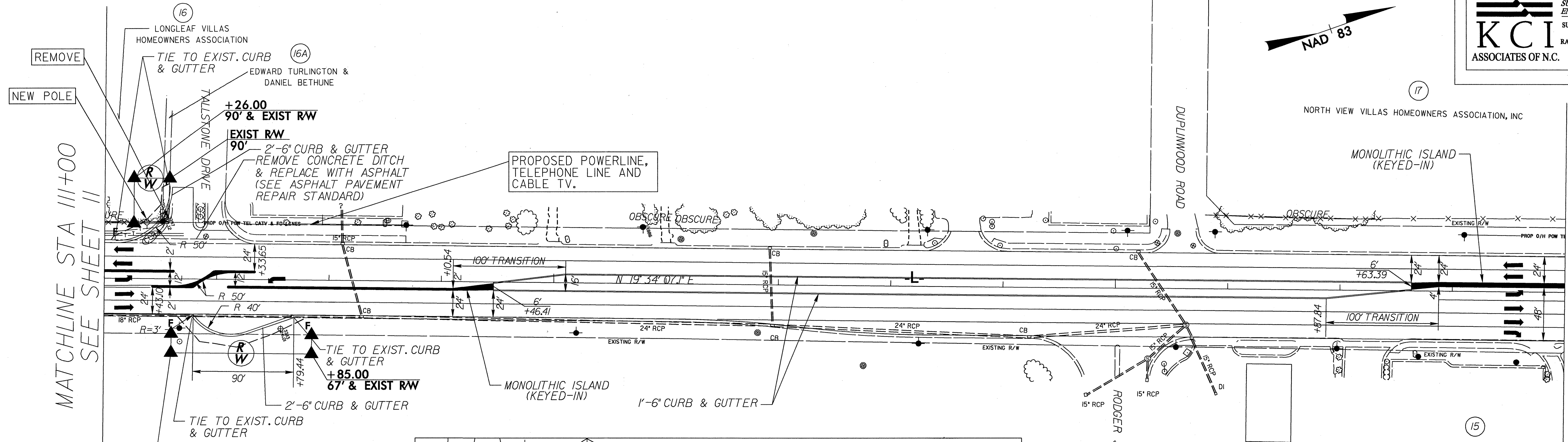
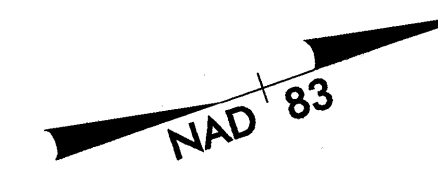


PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-10

KCI
ASSOCIATES OF N.C.

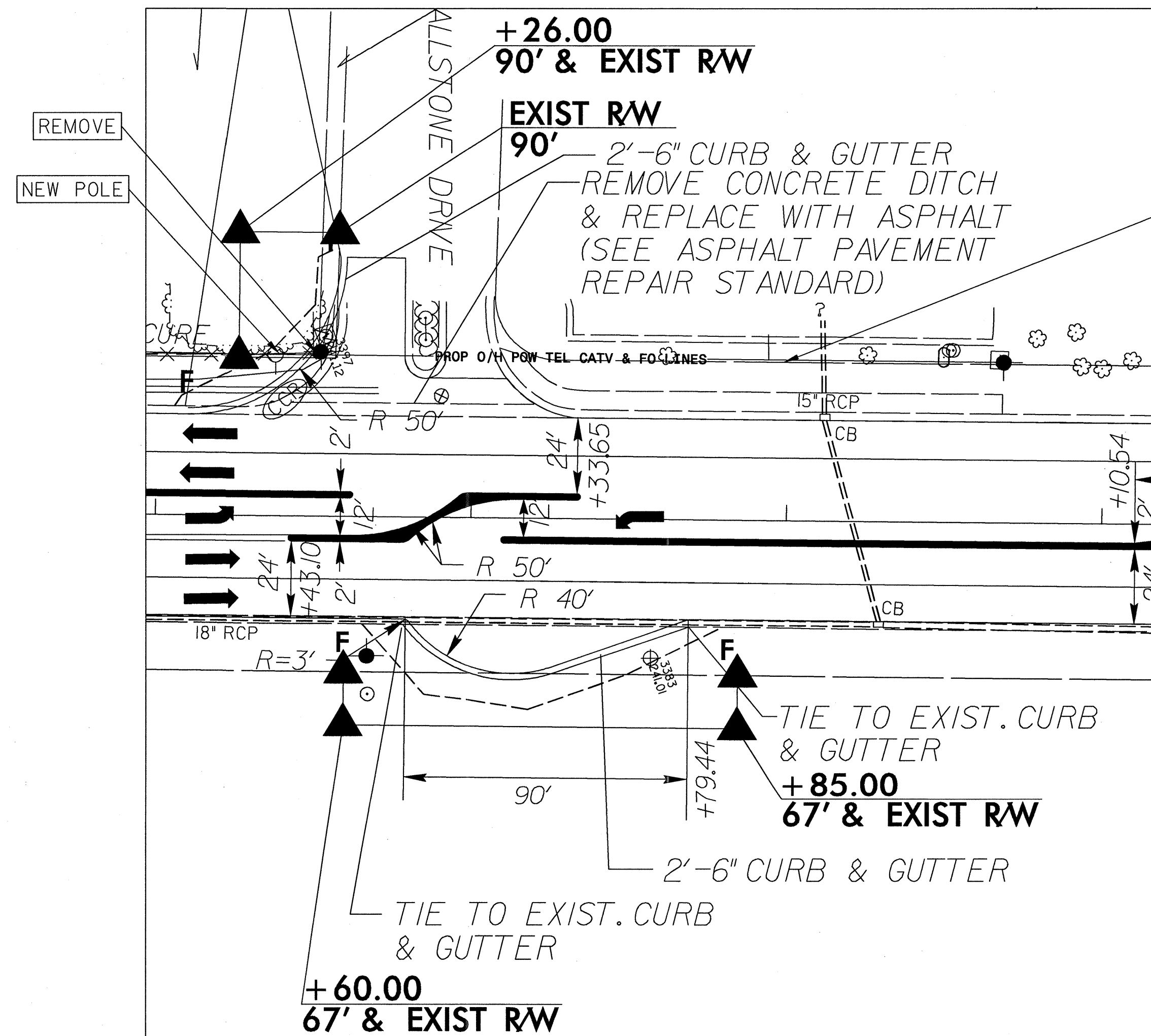
CIVIL ENGINEERS
ENVIRONMENTAL - CEI
LAND SURVEYING
SUBSURFACE UTILITY
ENGINEERING

SUITE 220, LANDMARK CENTER II,
4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCICOM



MATCHLINE STA III+00
SEE SHEET II

MATCHLINE STA 124+00
SEE SHEET 13



INTERSECTION DETAIL @ TALLSTONE DRIVE
SCALE: 1"=30'

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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

SEE SHEETS 21 & 22 FOR PROFILE

5/14/99



PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-11

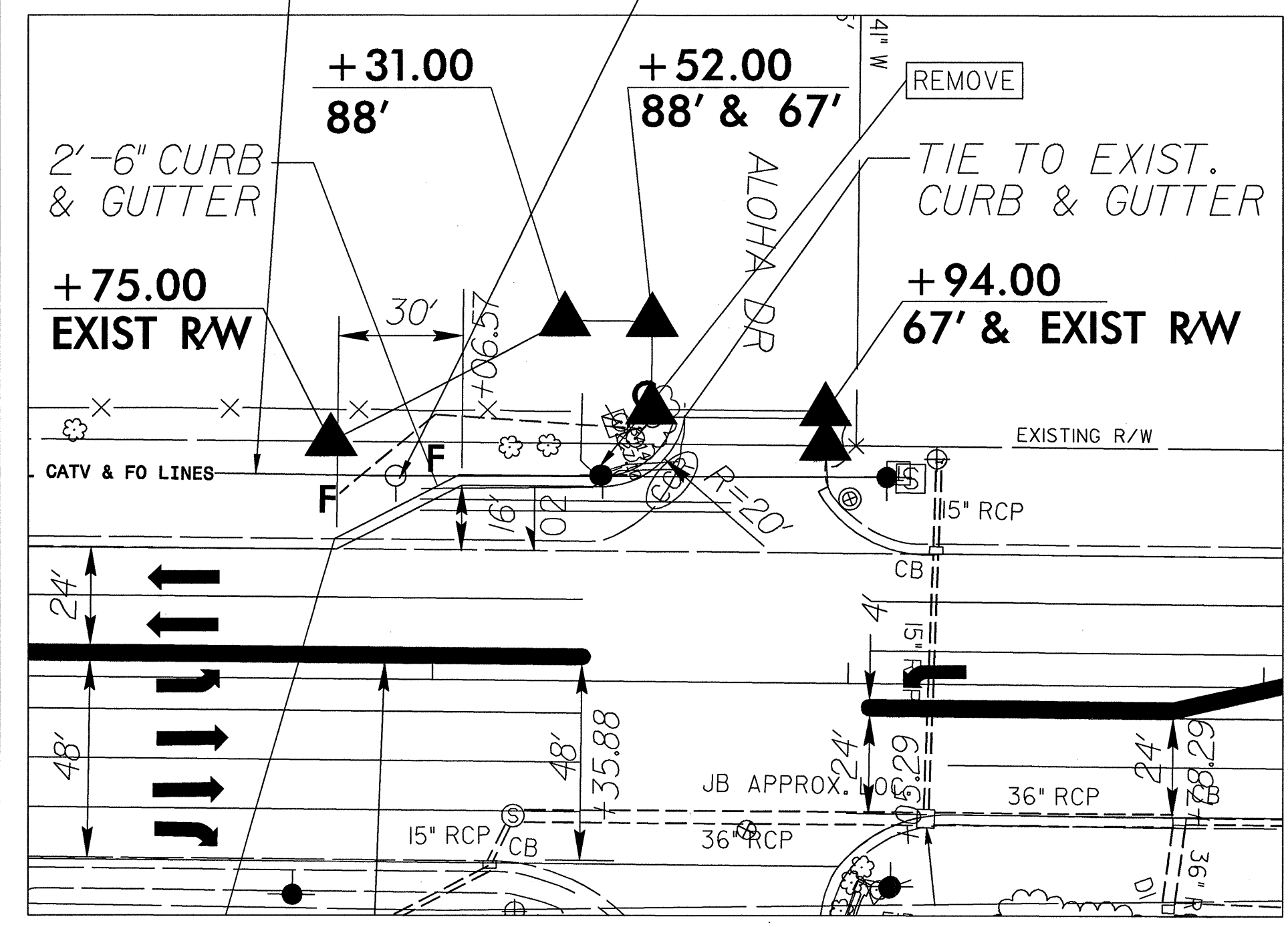
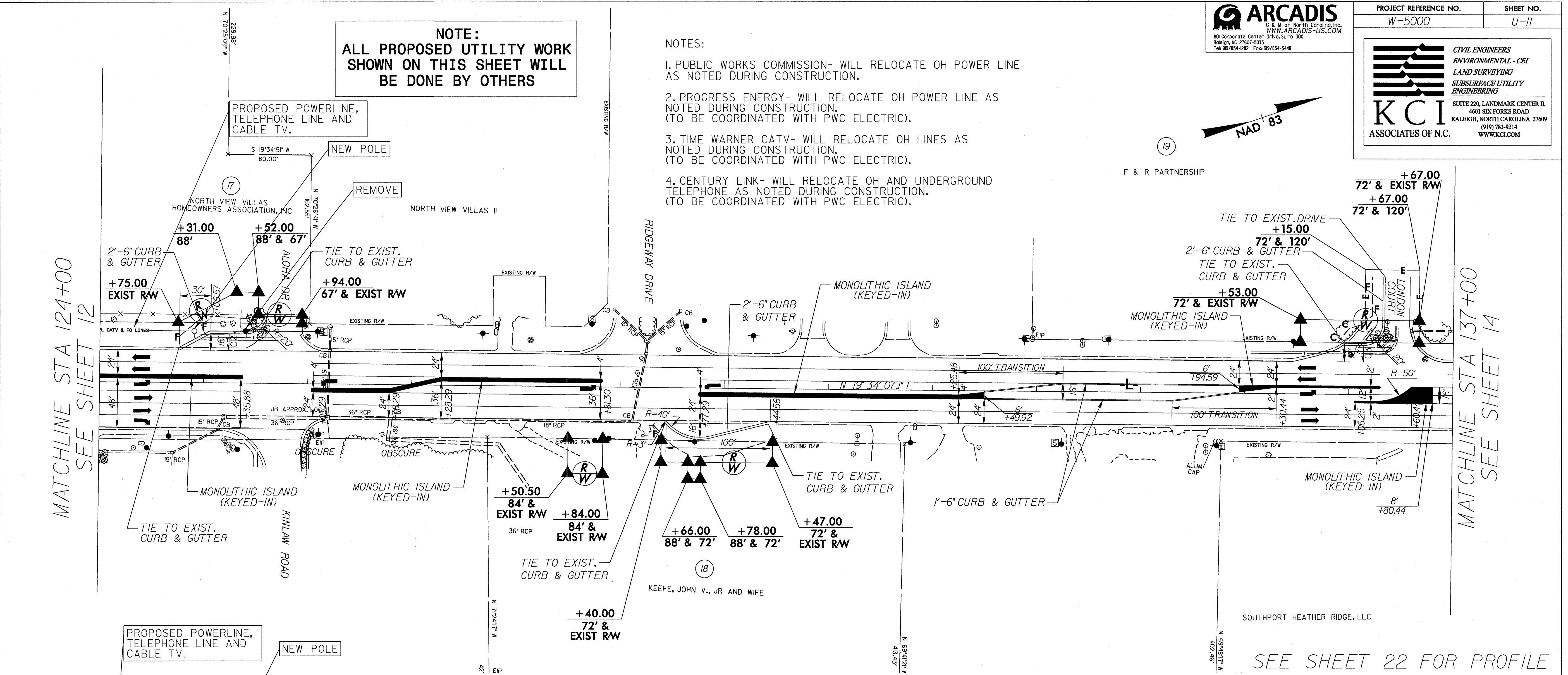
KCI ASSOCIATES OF N.C.

CIVIL ENGINEERS
ENVIRONMENTAL - CEI
LAND SURVEYING
SUBSURFACE UTILITY
ENGINEERING

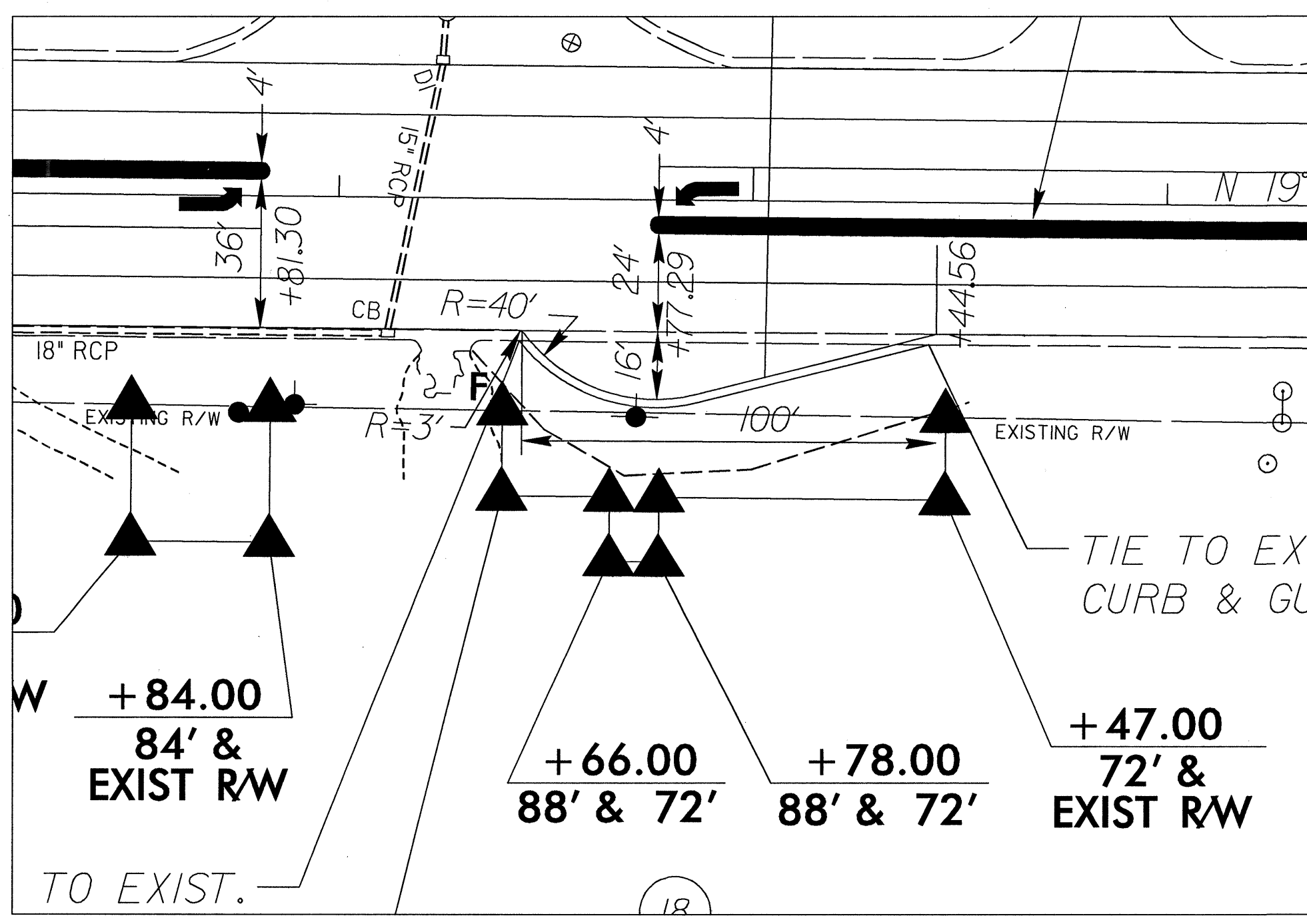
SUITE 220, LANDMARK CENTER II,
4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609
(919) 783-9214
WWW.KCI.COM

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

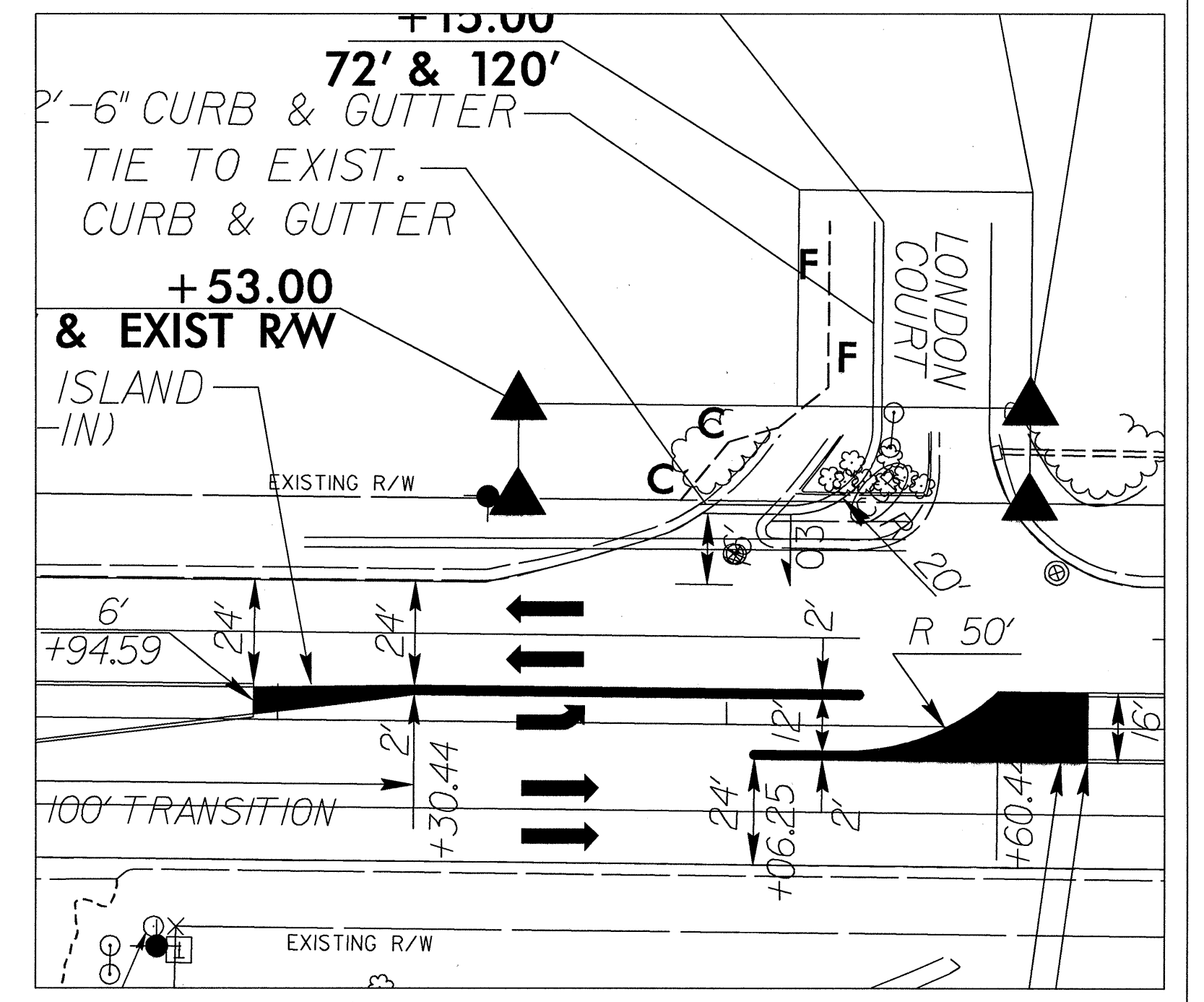
- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).



INTERSECTION DETAIL @ ALOHA DRIVE
SCALE: 1"=30'



INTERSECTION DETAIL @ RIDGEWAY DRIVE
SCALE: 1"=30'



INTERSECTION DETAIL @ LONDON DRIVE
SCALE: 1"=30'

SEE SHEET 22 FOR PROFILE

5/14/99



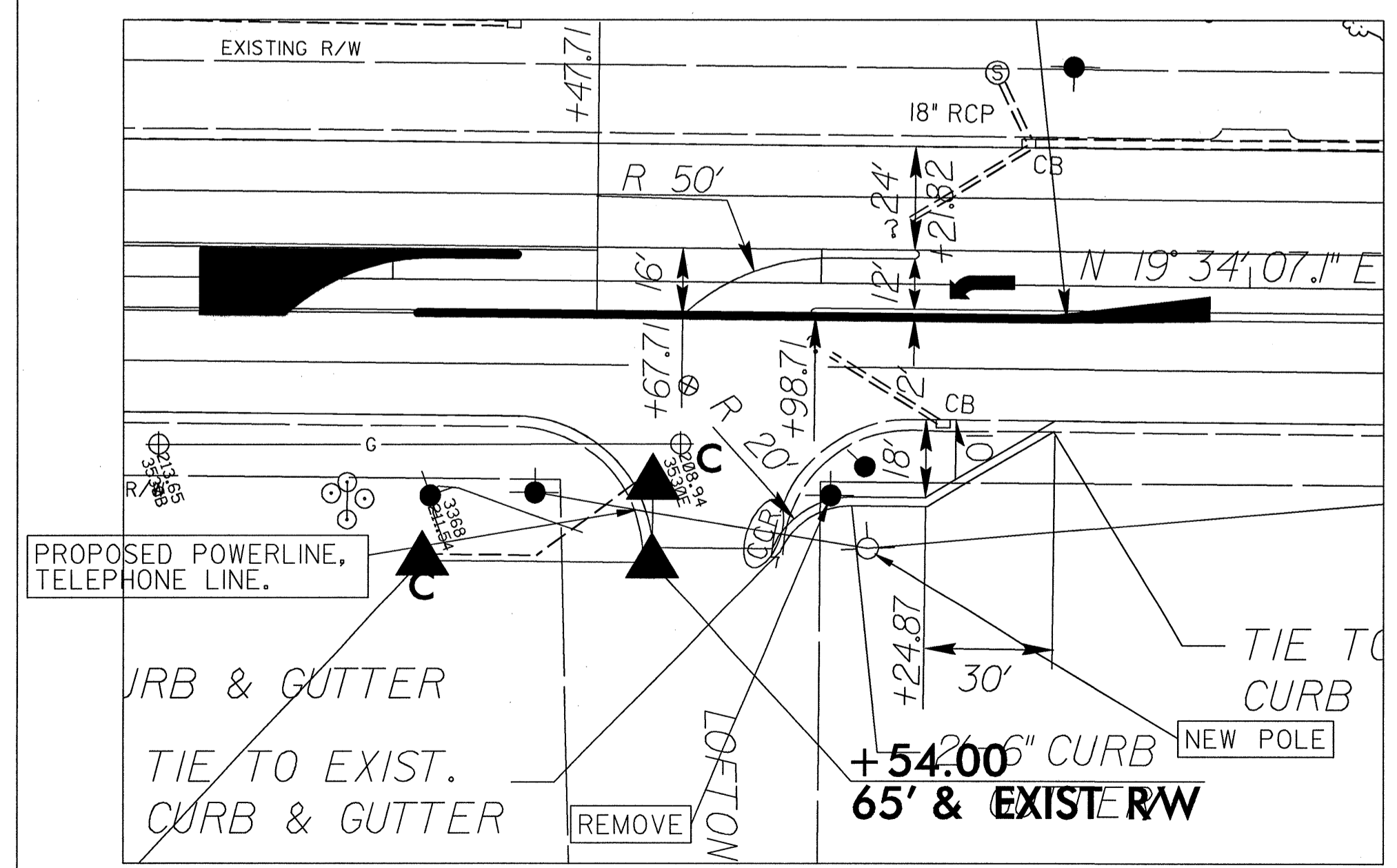
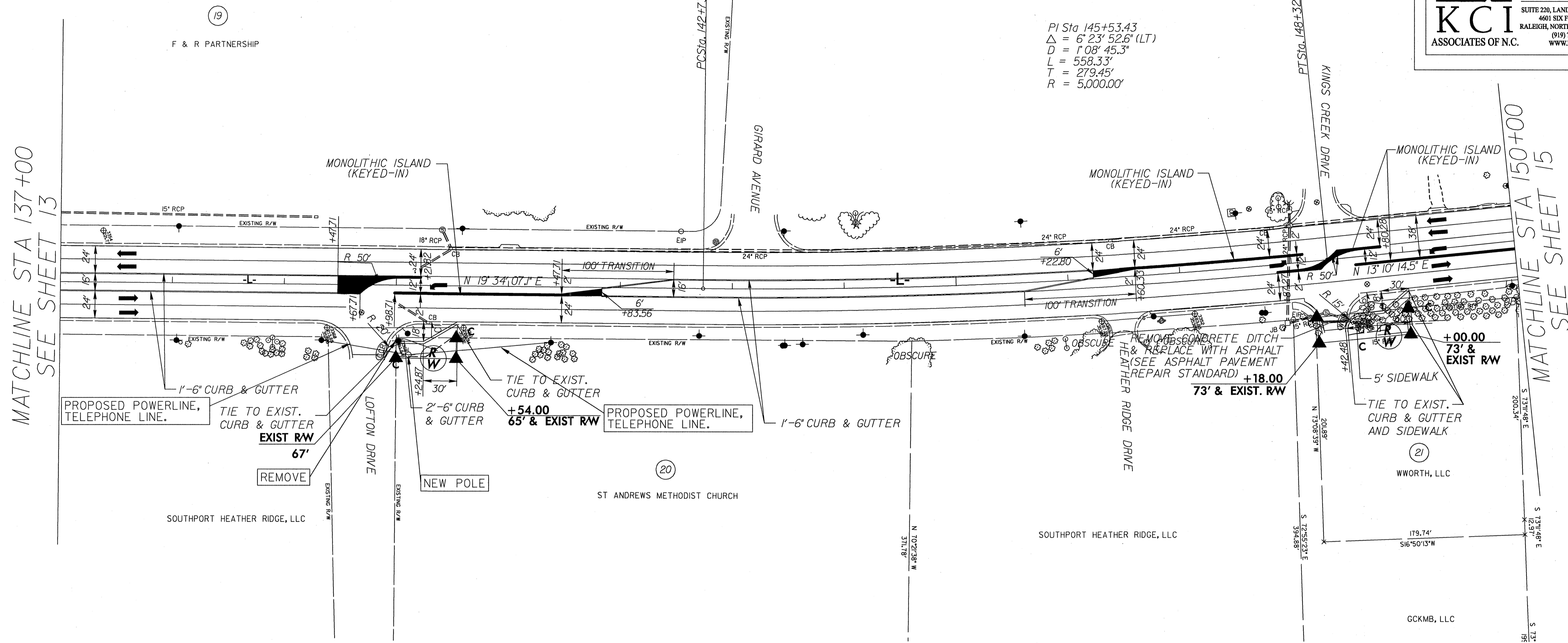
PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-12



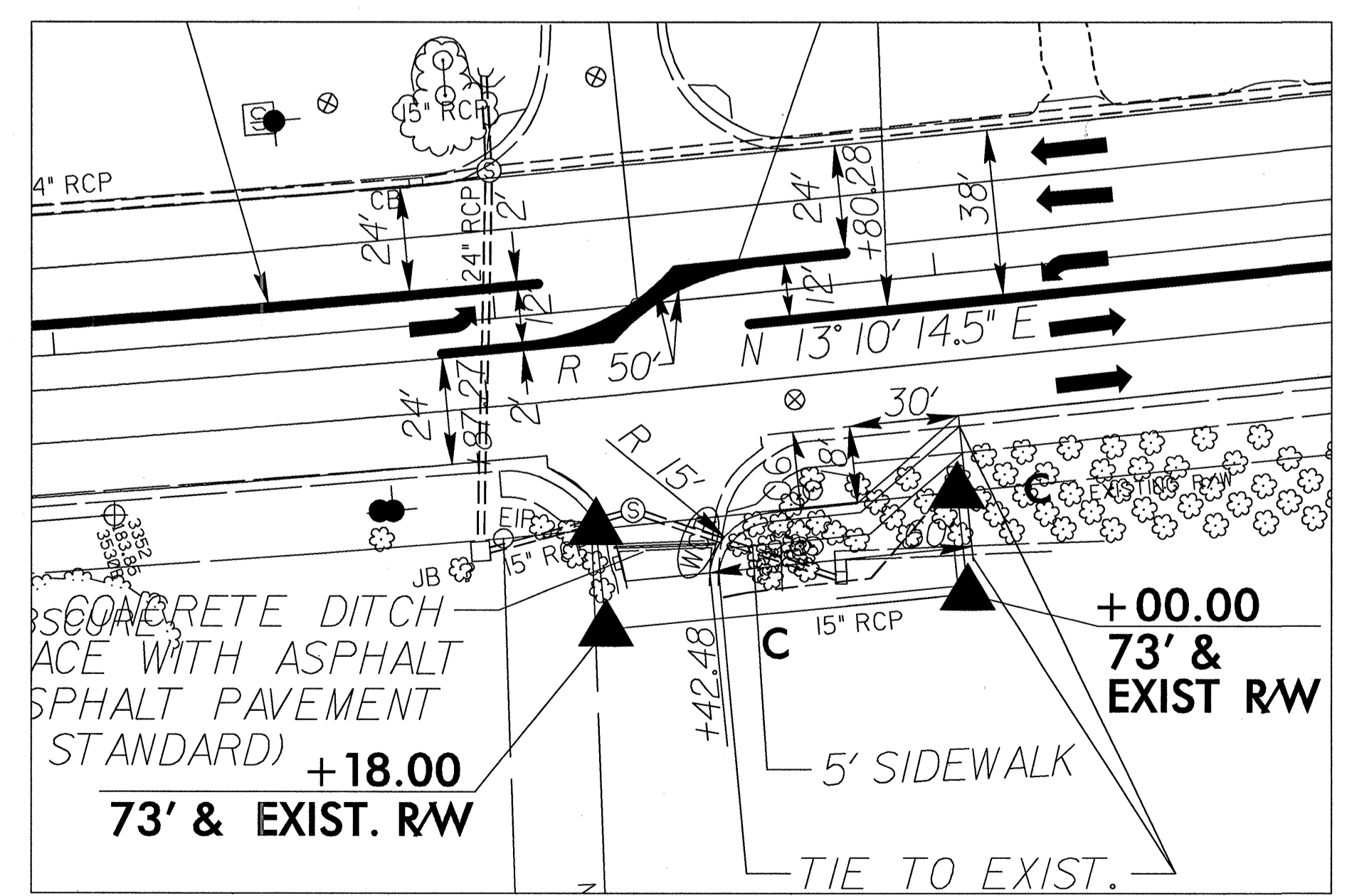
PI Sta 145+53.43
 $\Delta = 6' 23' 52.6''$ (LT)
 $D = 1' 08' 45.3''$
 $L = 558.33'$
 $T = 279.45'$
 $R = 5,000.00'$

MATCHLINE STA 137+00
SEE SHEET 13

MATCHLINE STA 150+00
SEE SHEET 15



INTERSECTION DETAIL @ LOFTON DRIVE
SCALE: 1"=30'

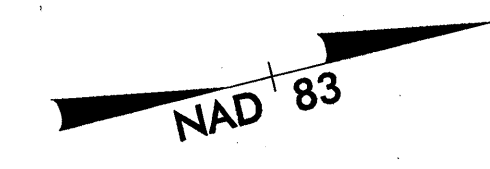


INTERSECTION DETAIL @ HEATHER RIDGE DRIVE
SCALE: 1"=30'

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

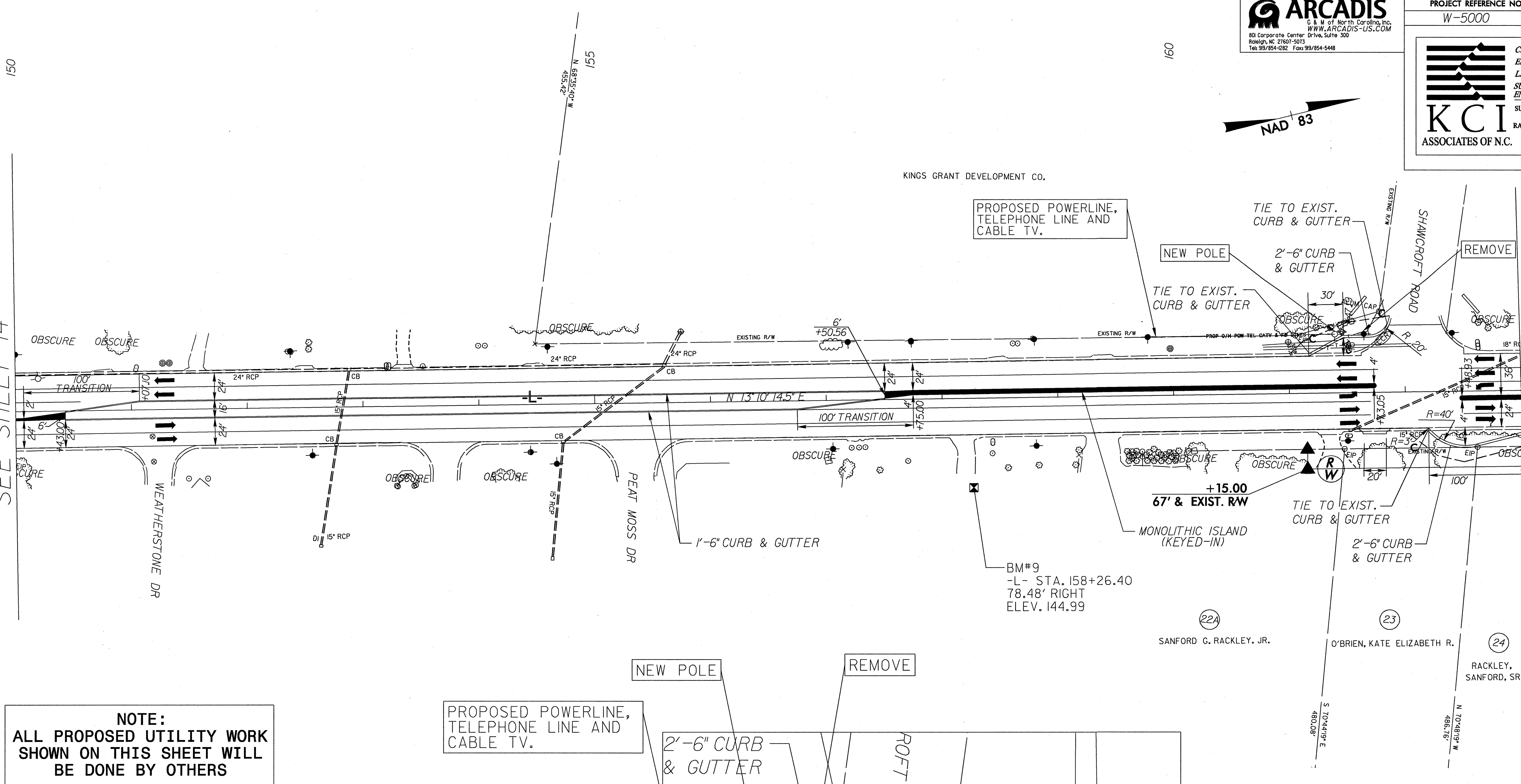
- NOTES:
1. PWC ELECTRIC- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

SEE SHEET 22 FOR PROFILE



MATCHLINE STA 150+00
SEE SHEET 14

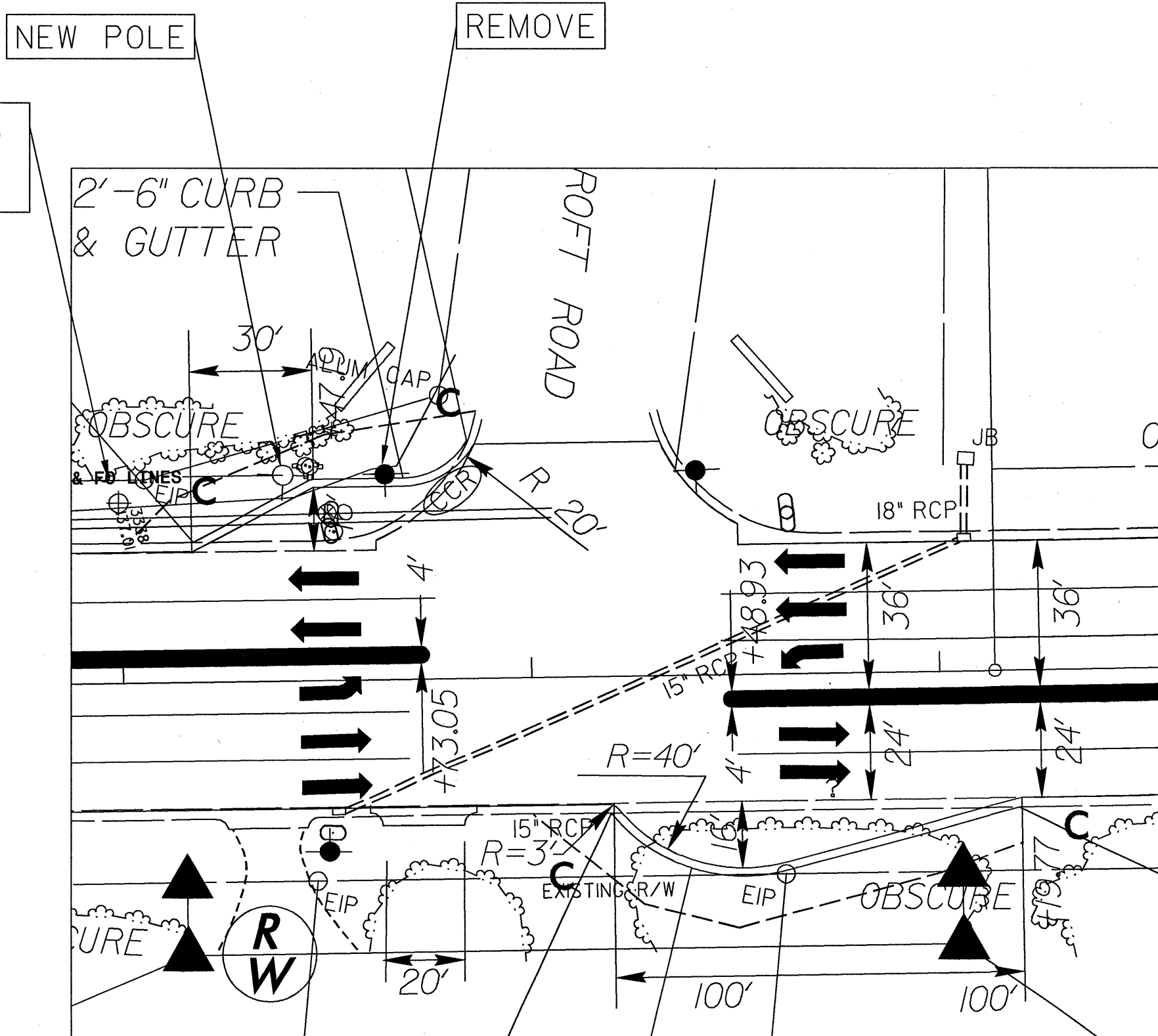
MATCHLINE STA 163+00
SEE SHEET 16



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

- NOTES:
1. PUBLIC WORKS COMMISSION- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION.
 2. PROGRESS ENERGY- WILL RELOCATE OH POWER LINE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 3. TIME WARNER CATV- WILL RELOCATE OH LINES AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).
 4. CENTURY LINK- WILL RELOCATE OH AND UNDERGROUND TELEPHONE AS NOTED DURING CONSTRUCTION. (TO BE COORDINATED WITH PWC ELECTRIC).

PROPOSED POWERLINE,
 TELEPHONE LINE AND
 CABLE TV.



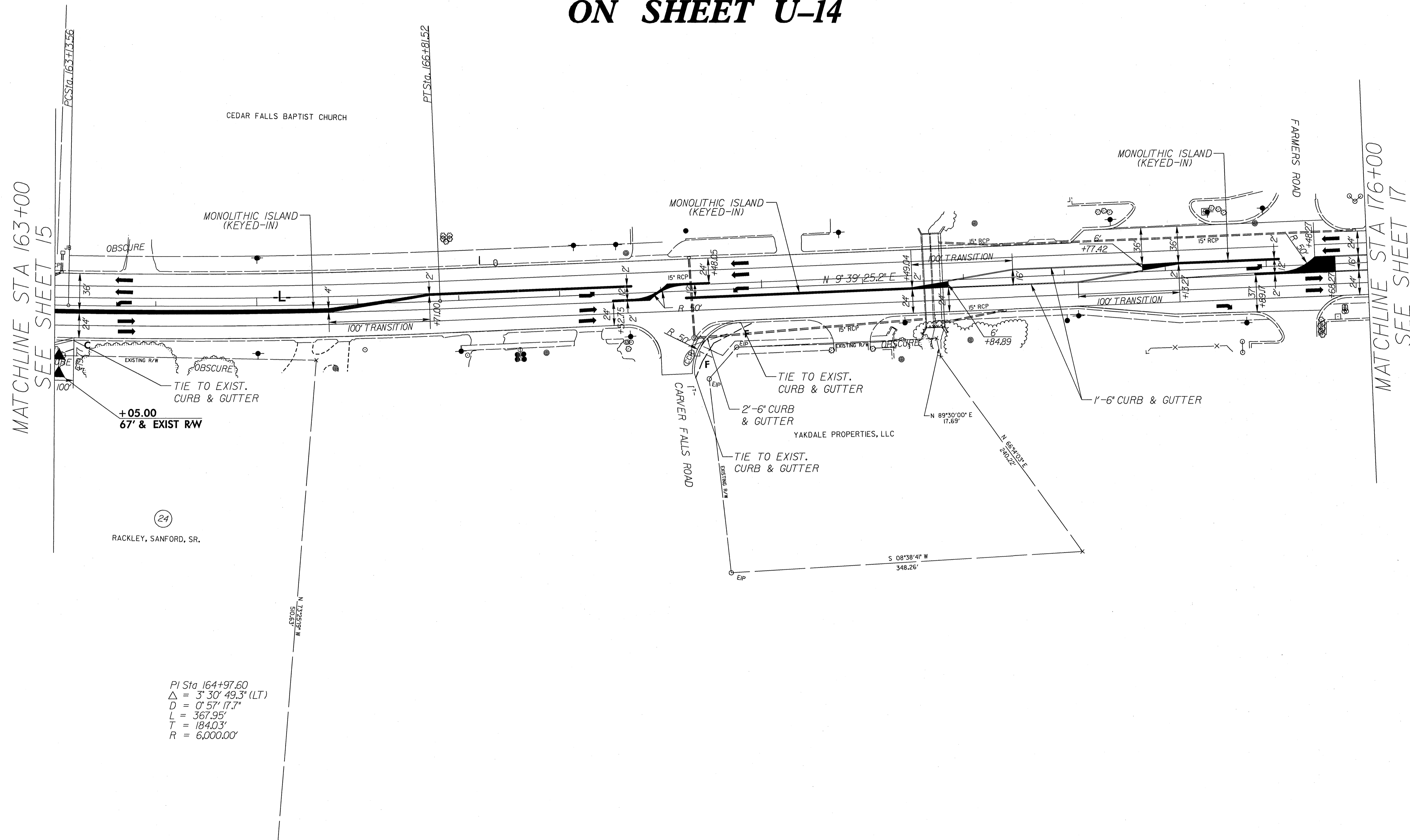
INTERSECTION DETAIL @ SHAWCROFT ROAD
 SCALE: 1"=30'

SEE SHEET 23 FOR PROFILE

5/14/99



NO UTILITY CONFLICTS ON SHEET U-14



MATCHLINE STA 163+00
SEE SHEET 15

MATCHLINE STA 176+00
SEE SHEET 17

PI Sta 164+97.60
 $\Delta = 3^{\circ} 30' 49.3''$ (LT)
 $D = 0' 57' 17.7''$
 $L = 367.95'$
 $T = 184.03'$
 $R = 6,000.00'$

SEE SHEET 23 FOR PROFILE

5/14/99



PROJECT REFERENCE NO.	SHEET NO.
W-5000	U-15

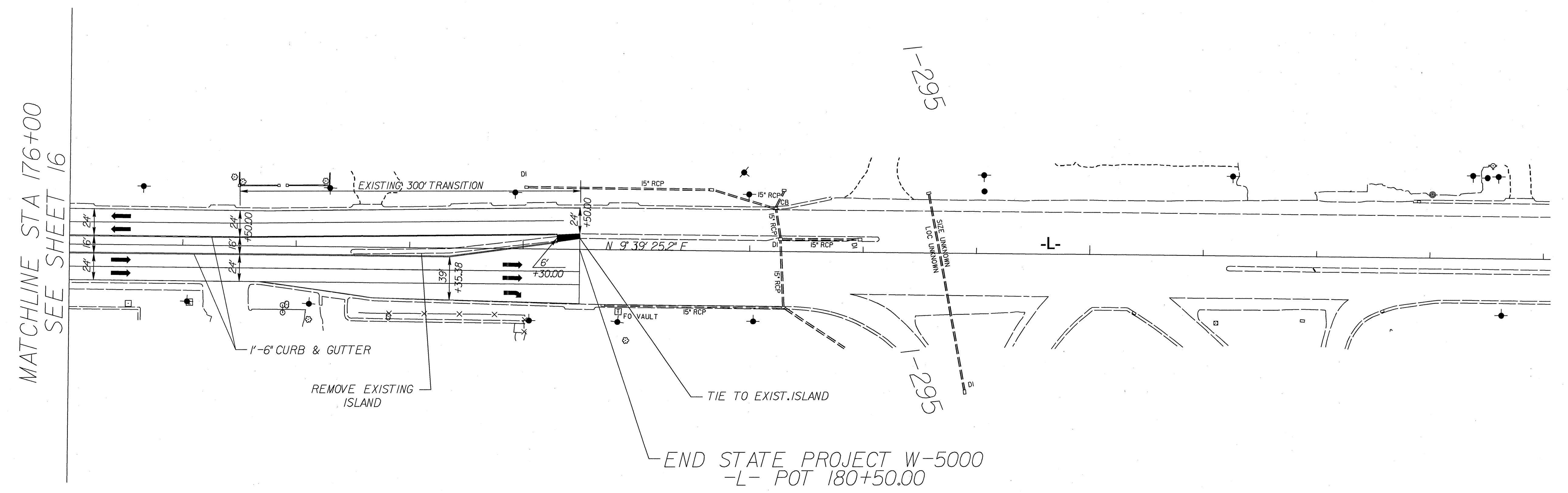
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NO UTILITY CONFLICTS ON SHEET U-15



MATCHLINE STA 176+00
SEE SHEET 16

1-295

1-295

-END STATE PROJECT W-5000
-L- POT 180+50.00

SEE SHEET 23 & 24 FOR PROFILE