



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY PERDUE  
GOVERNOR

EUGENE CONTI  
SECRETARY

August 10, 2012

MEMORANDUM TO: Mr. Neil Lassiter, PE  
Division 2 Engineer

FROM: Philip S. Harris, III, P.E., Unit Head  
Natural Environment Unit  
Project Development and Environmental Analysis Branch

SUBJECT: Carteret County, **Utility Work** associated with proposed improvements to US 70 from existing four-lane at Radio Island to north of Olga Road; Federal-Aid Project No. STPNHF-70(43)-0099(5); WBS Element 34528.1.1. **T.I.P Project No. R-3307**

Please find attached the NC Division of Coastal Management (DCM) CAMA General permit for the above referenced project. All environmental permits have been received for the relocations of utilities associated with this project.

Note that many of the permit drawings were revised after the permit was issued. DCM was notified and indicated that a permit modification was not required. The revised drawings are attached to this permit package for clarification and completeness.

A copy of this permit package will be posted on the NCDOT website at:  
<http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html>

Cc:  
Mr. Jay Johnson, Division Environ. Officer  
Mr. Rob Hanson, P.E., PDEA Eastern Section Head



# CAMA / DREDGE & FILL GENERAL PERMIT

Nº 58373

New  Modification  Complete Reissue  Partial Reissue

Previous permit # \_\_\_\_\_  
Date previous permit issued \_\_\_\_\_

As authorized by the State of North Carolina, Department of Environment and Natural Resources and the Coastal Resources Commission in an area of environmental concern pursuant to 15A NCAC \_\_\_\_\_

07H. 1600

Rules attached.

Applicant Name NC DOT  
Address 1598 Mail Service Center  
City Raleigh State NC ZIP 27699-1598  
Phone # (919) 707-6000 Fax # (919) 250-4224  
Authorized Agent Gregory Thorpe

Project Location: County Carteret  
Street Address/ State Road/ Lot #(s) US 70 from Radio Island to US 70 north of SR1429 (Olga Road)  
Subdivision \_\_\_\_\_  
City Beaufort, NC ZIP 28516  
Phone # (\_\_\_\_) \_\_\_\_\_ River Basin White Oak  
Adj. Wtr. Body Gallants Channel and Town Creek (nat /man /unkn)  
Closest Maj. Wtr. Body Newport River

Affected AEC(s):  CW  EW  PTA  ES  PTS  
 OEA  HHF  IH  UBA  N/A  
 PWS: \_\_\_\_\_  FC: \_\_\_\_\_

ORW: yes /  no PNA yes /  no Crit.Hab. yes / no

Type of Project/ Activity Relocate water, sewer, electric, telephone, and cable TV utilities in preparation for proposed improvements to US 70 (TIP R-3307). (Scale: N/A)

- Pier (dock) length \_\_\_\_\_
- Platform(s) \_\_\_\_\_
- Finger pier(s) \_\_\_\_\_
- Groin length \_\_\_\_\_  
number \_\_\_\_\_
- Bulkhead/ Riprap length \_\_\_\_\_  
avg distance offshore \_\_\_\_\_  
max distance offshore \_\_\_\_\_
- Basin, channel \_\_\_\_\_  
cubic yards \_\_\_\_\_
- Boat ramp \_\_\_\_\_
- Boathouse/ Boatlift \_\_\_\_\_
- Beach Bulldozing \_\_\_\_\_
- Other Water line utilities  
Sewer line utilities  
Electric line utilities  
Telephone line utilities  
Cable TV line utilities

Utility Plans Attached  
and Incorporated into Permit.

Shoreline Length ≥ 500'  
SAV: not sure yes  no  
Sandbags: not sure yes  no  
Moratorium: n/a yes  no  
Photos: yes  no  
Waiver Attached: yes  no

A building permit may be required by: Town of Beaufort  See note on back regarding River Basin rules.

Notes/ Special Conditions 1 BMPs shall be implemented to prevent sediment from entering adjacent waters of the state.

Agent or Applicant Printed Name Gregory J. Thorpe, PhD

Permit Officer's Signature Stephen Lane  
No Expiration Date pursuant to G.S. 136-44.7B

Signature E. L. Leish  
\*\* Please read compliance statement on back of permit \*\*  
# 400.00 WB# 34528.1.1

Issuing Date 12-9-11  
Expiration Date 340 43' 32"  
760 39' 39"

Application Fee(s) \_\_\_\_\_ Check # \_\_\_\_\_

Local Planning Jurisdiction Town of Beaufort Rover File Name \_\_\_\_\_

**SECTION .1600 - GENERAL PERMIT FOR THE INSTALLATION OF AERIAL AND SUBAQUEOUS  
UTILITY LINES WITH ATTENDANT STRUCTURES IN COASTAL WETLANDS; ESTUARINE WATERS;  
PUBLIC TRUST WATERS AND ESTUARINE SHORELINES**

**15A NCAC 07H .1601 PURPOSE**

A permit under this Section shall allow for the installation of utility lines both aurally and subaqueously in the coastal wetland, estuarine water, public trust areas and estuarine and public trust shoreline AECs according to the authority provided in Subchapter 7J .1100 and according rules in this Section. This general permit shall not apply to the ocean hazard AECs.

*History Note: Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1;  
Eff. March 1, 1985;  
Amended Eff. August 1, 2000; August 1, 1998.*

**15A NCAC 07H .1602 APPROVAL PROCEDURES**

(a) The applicant must contact the Division of Coastal Management and complete an application form requesting approval for development. The applicant shall provide information on site location, dimensions of the project area, and his name and address.

(b) The applicant must provide:

- (1) confirmation that a written statement has been obtained signed by the adjacent riparian property owners indicating that they have no objections to the proposed work; or
- (2) confirmation that the adjacent riparian property owners have been notified by certified mail of the proposed work. Such notice should instruct adjacent property owners to provide any comments on the proposed development in writing for consideration by permitting officials to the Division of Coastal Management within ten days of receipt of the notice, and, indicate that no response will be interpreted as no objection. DCM staff will review all comments and determine, based on their relevance to the potential impacts of the proposed project, if the proposed project can be approved by a General Permit. If DCM staff finds that the comments are worthy of more in-depth review, the applicant will be notified that he must submit an application for a major development permit.

(c) No work shall begin until an on-site meeting is held with the applicant and appropriate Division of Coastal Management representative so that the utility line alignment can be appropriately marked. Written authorization to proceed with the proposed development will be issued during this visit. Construction on the utility line must begin within twelve months of this visit or the general authorization expires.

*History Note: Authority G.S. 113A-107(a)(b); 113A-113(b); 113A-118.1; 113A-229(cl);  
Eff. March 1, 1985;  
Amended Eff. January 1, 1990.*

**15A NCAC 07H .1603 PERMIT FEE**

The applicant shall pay a permit fee of four hundred dollars (\$400.00) by check or money order payable to the Department.

*History Note: Authority G.S. 113-229(c1); 113A-107; 113A-113(b); 113A-118.1; 113A-119; 113A-119.1;  
Eff. March 1, 1985;  
Amended Eff. September 1, 2006; August 1, 2000; March 1, 1991.*

**15A NCAC 07H .1604 GENERAL CONDITIONS**

(a) Utility lines for the purpose of this general permit or any pipes or pipelines for the transportation of potable water, domestic sanitary sewage, natural gas, and any cable, line, or wire for the transmission, for any purpose, of electrical energy, telephone and telegraph messages, and radio and television communication.

(b) There must be no resultant change in preconstruction bottom contours. Authorized fill includes only that necessary to backfill or bed the utility line. Any excess material must be removed to an upland disposal area.

(c) The utility line crossing will not adversely affect a public water supply intake.

- (d) The utility line route or construction method will not disrupt the movement of those species of aquatic life indigenous to the waterbody.
- (e) Individuals shall allow authorized representatives of the Department of Environment, Health, and Natural Resources to make periodic inspections at any time necessary to ensure that the activity being performed under authority of this general permit is in accordance with the terms and conditions prescribed herein.
- (f) This general permit will not be applicable to proposed construction where the Department has determined, based on an initial review of the application, that notice and review pursuant to G.S. 113A-119 is necessary because there are unresolved questions concerning the proposed activity's impact on adjoining properties or on water quality; air quality; coastal wetlands; cultural or historic sites; wildlife; fisheries resources; or public trust rights.
- (g) This permit does not eliminate the need to obtain any other required state, local, or federal authorization, nor, to abide by regulations adopted by any federal or other state agency.
- (h) Development carried out under this permit must be consistent with all local requirements, AEC guidelines, and local Land Use Plans current at the time of authorization.

*History Note: Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1; Eff. March 1, 1985; Amended Eff. May 1, 1990; RRC Objection due to ambiguity Eff. May 19, 1994; Amended Eff. August 1, 1998; July 1, 1994.*

#### **15A NCAC 07H .1605 SPECIFIC CONDITIONS**

Proposed utility line installations must meet each of the following specific conditions to be eligible for authorization by this general permit:

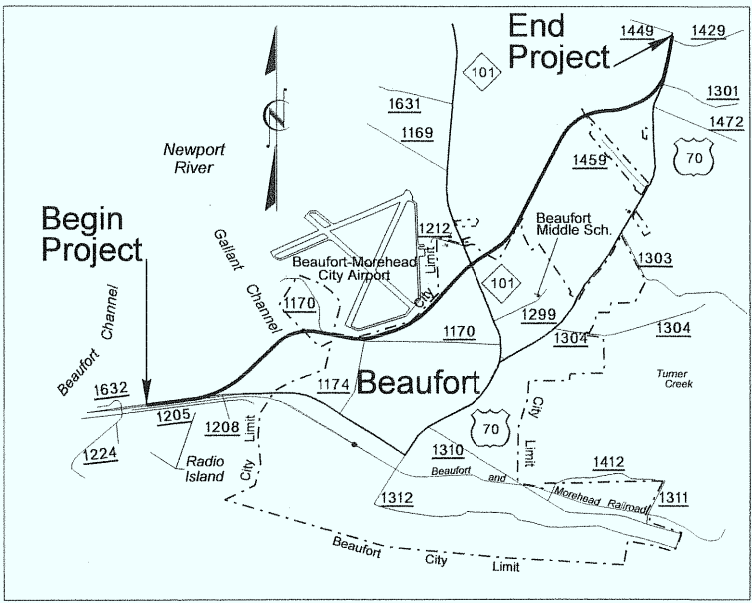
- (1) All domestic sanitary sewer line requests must be accompanied by a statement of prior approval from the NC Division Water Quality.
- (2) All spoils which are permanently removed must be placed on a high ground disposal site and stabilized so as not to return to waters, marsh or other wetlands.
- (3) Any additional backfill material required must be clean sand or rock free of organic matter.
- (4) Cuts through wetlands must be minimized.
- (5) Finished grades or subaqueous or wetland crossing must be returned to preproject contours.
- (6) There can be no work within any productive shellfish beds.
- (7) No excavation or filling activities will be permitted between April 1 and September 30 of any year within any designated primary nursery area.
- (8) Subaqueous lines must be placed at a depth of six feet below the project depth of federal projects. In other areas they will be installed at a minimum depth of two feet below the bottom contour.
- (9) The minimum clearance for aerial communication lines or any lines not transmitting electricity will be 10' above the clearance required for bridges in the vicinity.
- (10) The minimum clearance for aerial electrical transmission lines shall be consistent with those established by the US Army Corps of Engineers and US Coast Guard.
- (11) The installation of a utility line on pipe bents or otherwise above the elevation of mean high or mean ordinary water must be of sufficient height to allow for traditional navigation in the water body. Additionally the utility line must not interfere with the waterflow of normal or flood waters.
- (12) Natural gas lines must not exceed 11 inches in diameter.

*History Note: Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1; Eff. March 1, 1985; Amended Eff. August 1, 1998.*

08/08/99

T.I.P. NO.	SHEET NO.
R-3307	UO-1

TIP PROJECT: R-3307



VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

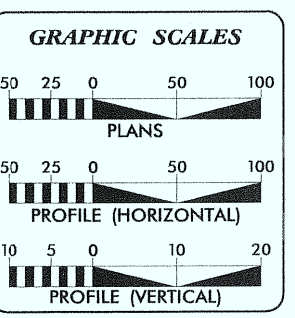
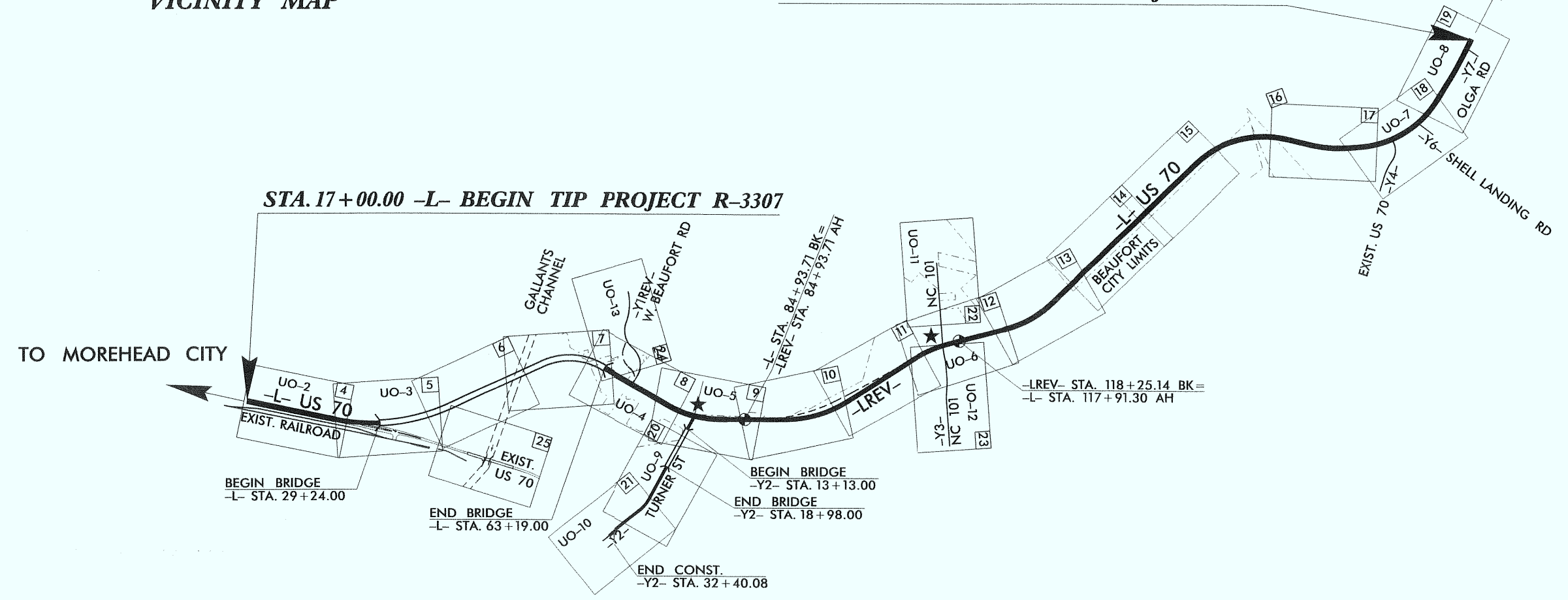
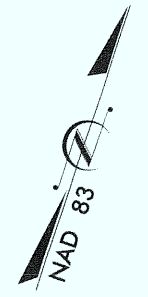
**NEU PERMIT DRAWINGS  
CARTERET COUNTY**

**LOCATION: US 70 FROM EXISTING FOUR LANES AT  
RADIO ISLAND TO US 70 NORTH OF  
SR 1429 (OLGA ROAD)**

**TYPE OF WORK: RELOCATE UTILITIES LINES**

STA. 207+95.09 -L- END TIP PROJECT R-3307

Utility Permit Drawing  
Sheet 1 of 16




**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-13	UTILITY BY OTHERS PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

- CENTURY LINK
- PROGRESS ENERGY
- TIME WARNER CABLES



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

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4151

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Gorey Bousquet, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Kifah Kamil** UTILITIES PROJECT DESIGNER

04-AUG-2011 12:09 P:\UTILITIES\NGD\UT\Proj\Revised\_NEU\3307\_UT\_U01.dgn \$\$\$USERNAME\$\$\$

UTILITIES BY OTHERS

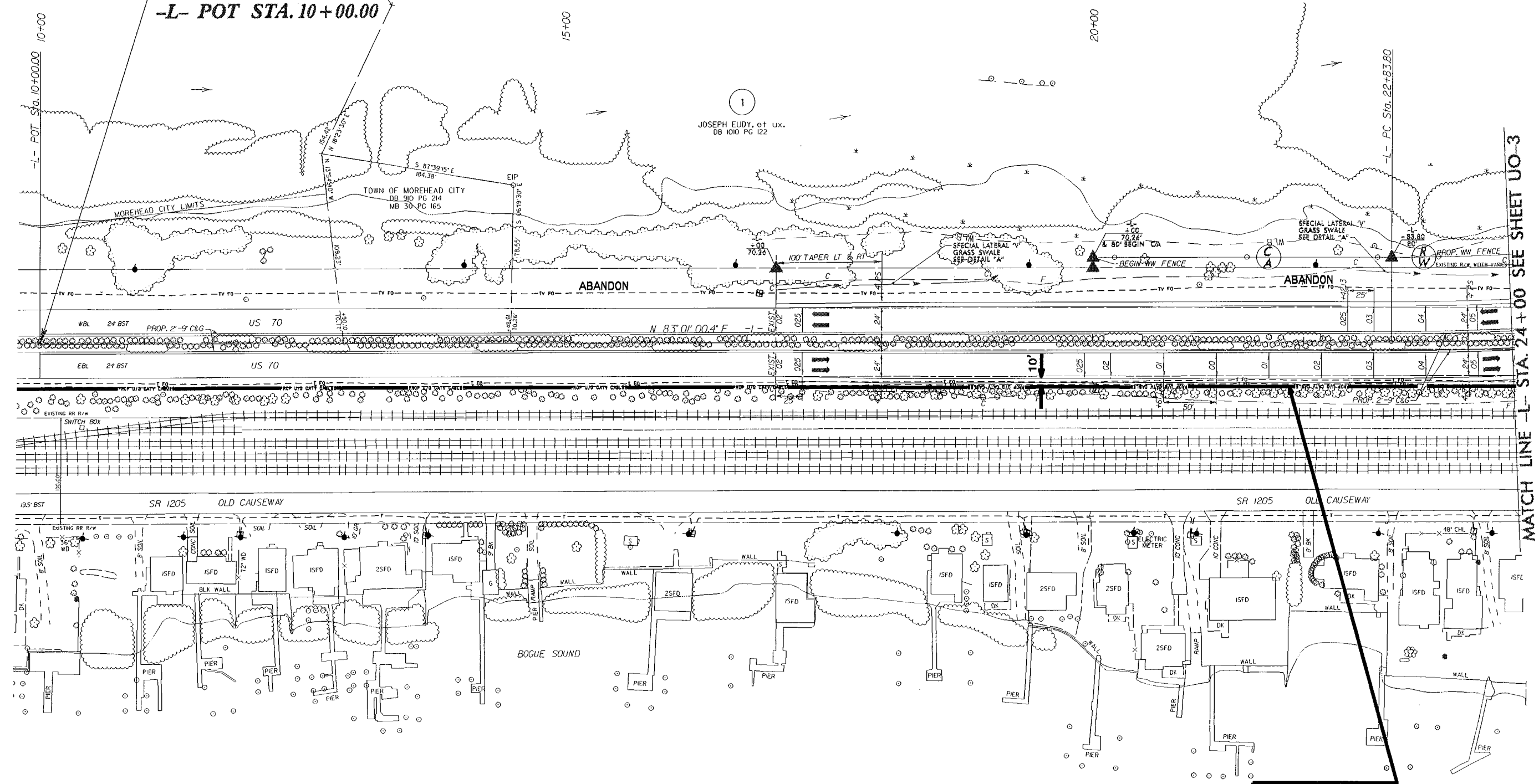
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-L-  
PI Sta 31+49.36  
Δ = 36° 26' 02.2" (LT)  
D = 2' 10" 42.8"  
L = 1672.40'  
T = 865.56'  
R = 2630.00'  
SE = .05

REVISED NEU PERMIT DRAWING  
03/05/2012

BEGIN TIP PROJECT R-3307  
-L- POT STA. 10+00.00

Utility Permit Drawing  
Sheet 2 of 16



PROP. U/G CATV CABLES

MATCH LINE -L- STA. 24+00 SEE SHEET U0-3

5/14/99  
 05-MAR-2012 11:00  
 \Pch\T\F\FC\Revised\_NEU\ r-3307\_ut\_4\_us2\_psh.dgn  
 \$\$\$USERNAME\$\$\$

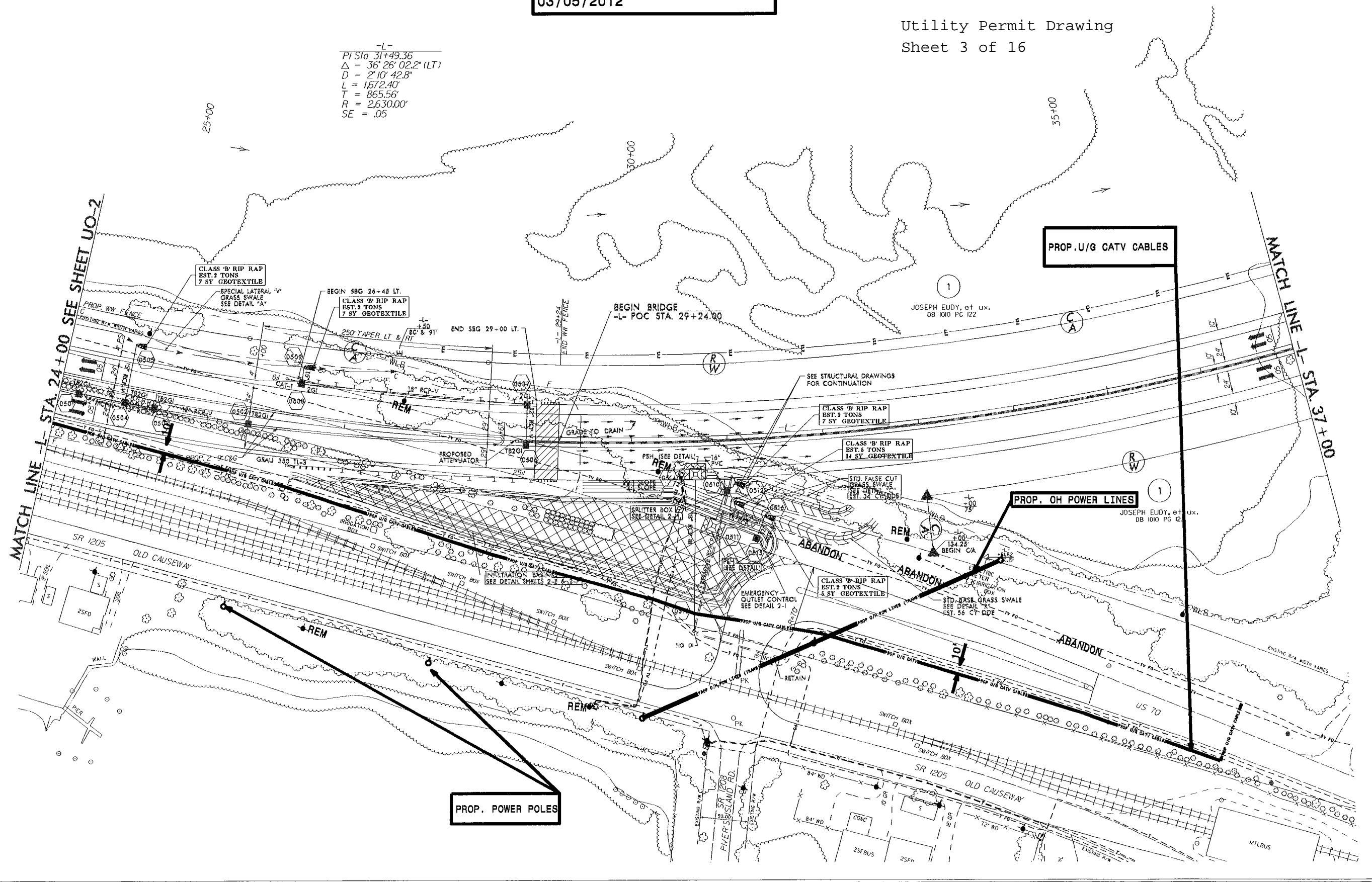
UTILITIES BY OTHERS

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

REVISED NEU PERMIT DRAWING  
03/05/2012

Utility Permit Drawing  
Sheet 3 of 16

-L-  
PI Sta 31+49.36  
 $\Delta = 36' 26" 02.2" (LT)$   
 $D = 2' 10" 42.8"$   
 $L = 1672.40'$   
 $T = 865.56'$   
 $R = 2,630.00'$   
 $SE = .05$



5/14/99

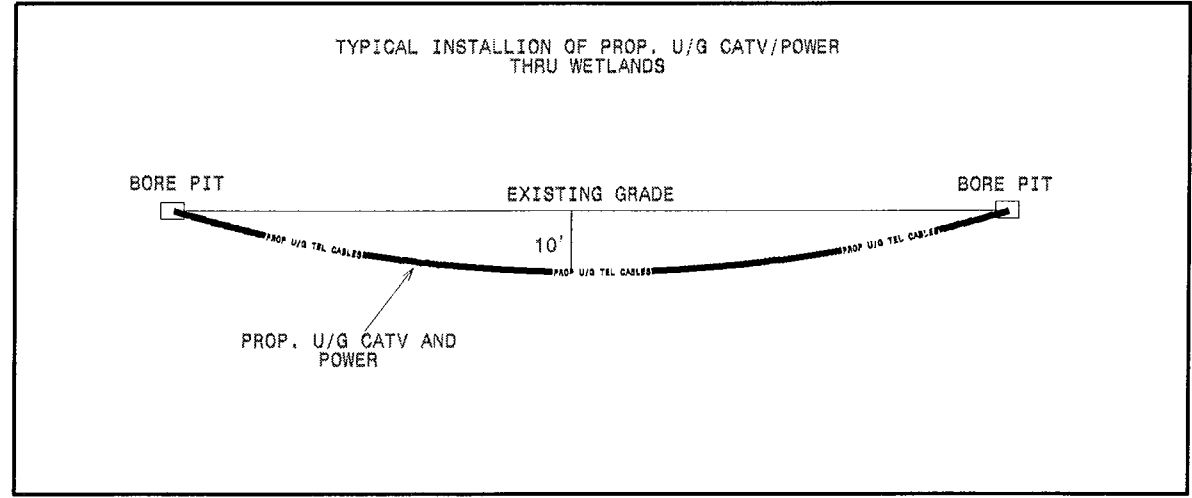
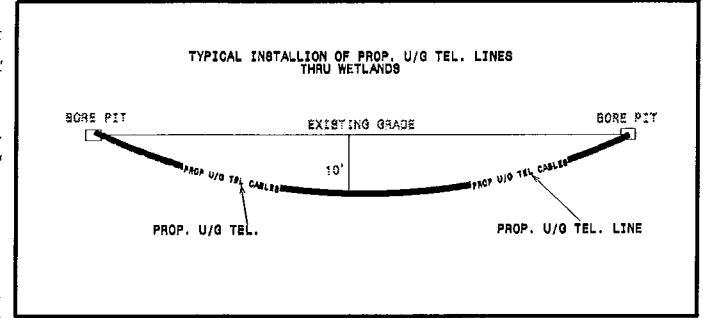
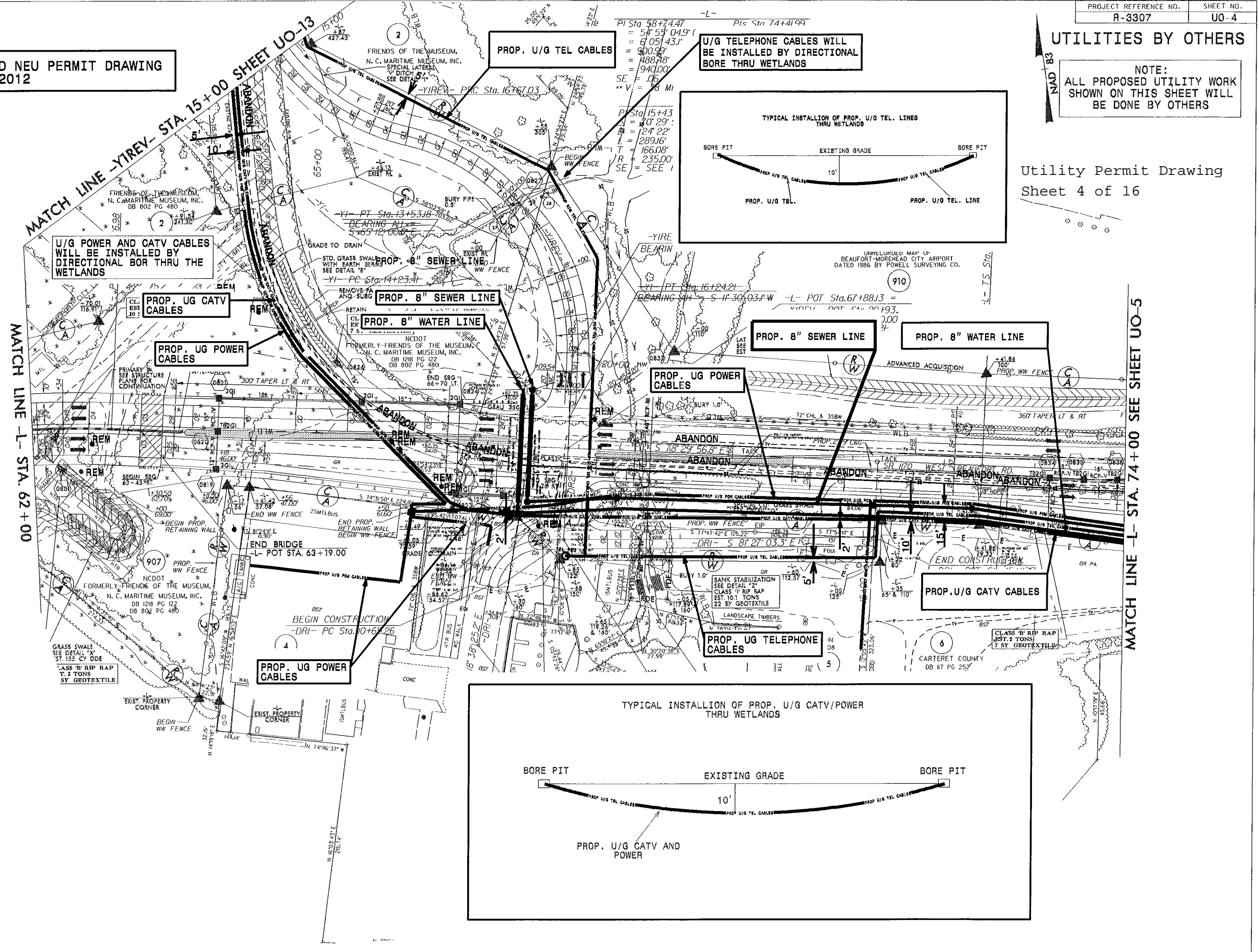
05-MAR-2012 11:01 AM  
C:\p\3307\REVISED\_NEU\p-3307-ut-5.uo3.psh.dgn

REVISED NEU PERMIT DRAWING  
03/05/2012

UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 4 of 16



5/14/799  
05-MAR-2012 12:35  
d:\projects\3307\neu\neu-3307-ut-8-uo4\_psh.dgn

MATCH LINE -L- STA. 74+00 SEE SHEET UO-5

MATCH LINE -L- STA. 62+00

MATCH LINE -YIREV- STA. 15+00 SHEET UO-13



Pls Sta 74+41.99  $\Delta = 17^{\circ} 03' 32.8" (LT)$   $\Delta = 17^{\circ} 03' 32.8" (LT)$   $\Delta = 17^{\circ} 03' 32.8" (LT)$   $\Delta = 17^{\circ} 03' 32.8" (LT)$   
 Os = 6' 21" 58.3"  $\Delta = 4' 14" 38.9"$   $\Delta = 4' 14" 38.9"$   $\Delta = 4' 14" 38.9"$   $\Delta = 4' 14" 38.9"$   
 Ls = 300.00' L = 401.95' L = 401.95' L = 401.95'  
 LT = 200.13' T = 202.47' T = 202.47' T = 202.47'  
 ST = 100.12' R = 1,350.00' SE = .04

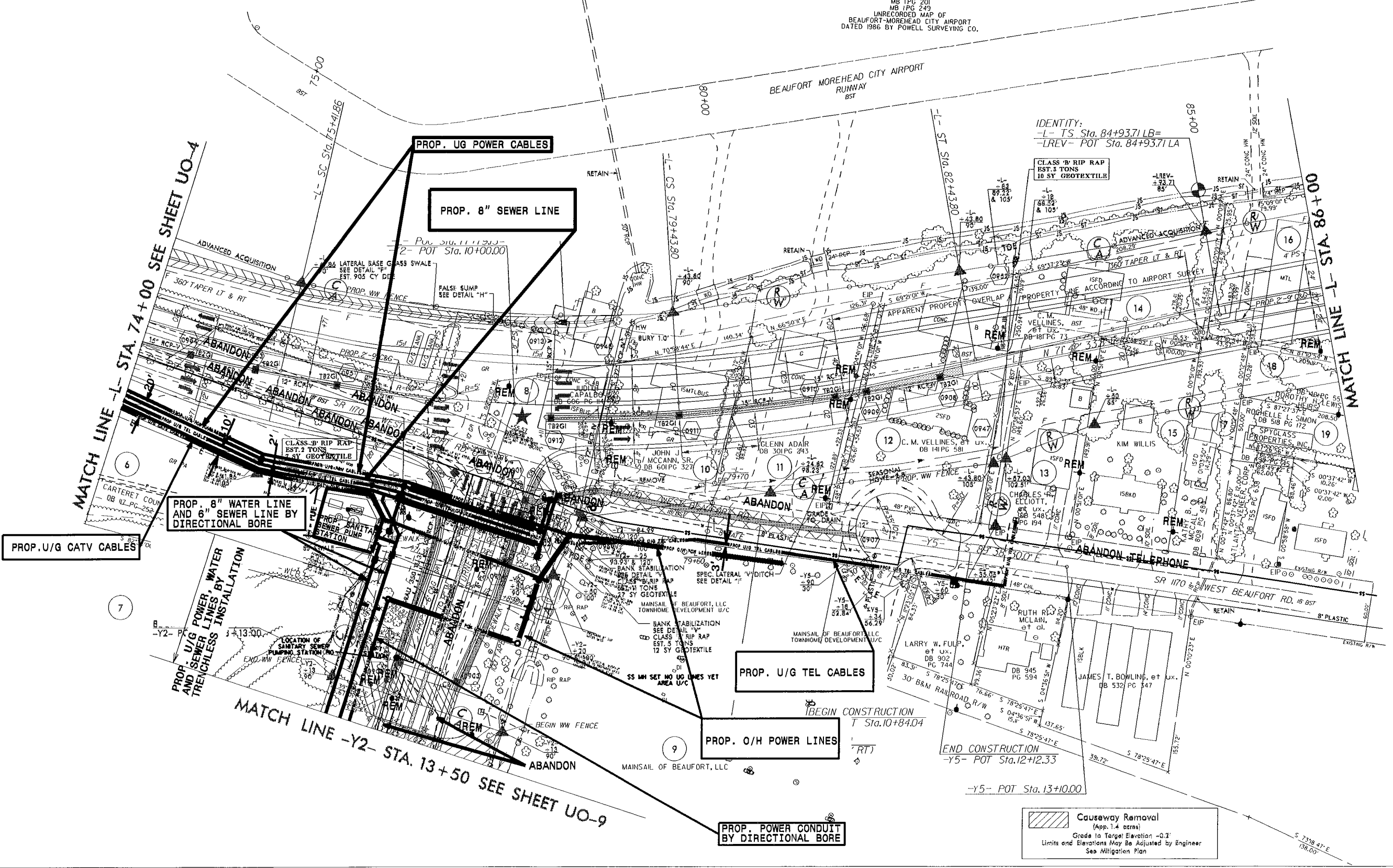
UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 5 of 16

REVISED NEU PERMIT DRAWING  
03/05/2012

910  
 BEAUFORT-MOREHEAD CITY AIRPORT AUTHORITY  
 DB 16 PG 554  
 DB 100 PG 374  
 DB 100 PG 455  
 DB 100 PG 471  
 DB 101 PG 231  
 DB 101 PG 263  
 DB 101 PG 265  
 DB 101 PG 288  
 DB 101 PG 296  
 DB 101 PG 333-333  
 DB 409 PG 18  
 DB 517 PG 127  
 DB 524 PG 346  
 DB 563 PG 142  
 DB 688 PG 216  
 DB 734 PG 890  
 DB 809 PG 559  
 MB 1 PG 201  
 MB 1 PG 249  
 UNRECORDED MAP OF BEAUFORT-MOREHEAD CITY AIRPORT DATED 1986 BY POWELL SURVEYING CO.



5/14/99  
  
 05-MAR-2012 14:02  
 d:\projects\3307\neuv\3307-ut-9-uo5.psh.dgn  
 3307-ut-9-uo5.psh.dgn

**Causeway Removal**  
 (App. 1.4 acres)  
 Grade to Target Elevation -0.3'  
 Limits and Elevations May Be Adjusted by Engineer  
 See Mitigation Plan

MATCH LINE -L- STA. 74+00 SEE SHEET UO-4

MATCH LINE -L- STA. 86+00

MATCH LINE -Y2- STA. 13+50 SEE SHEET UO-9

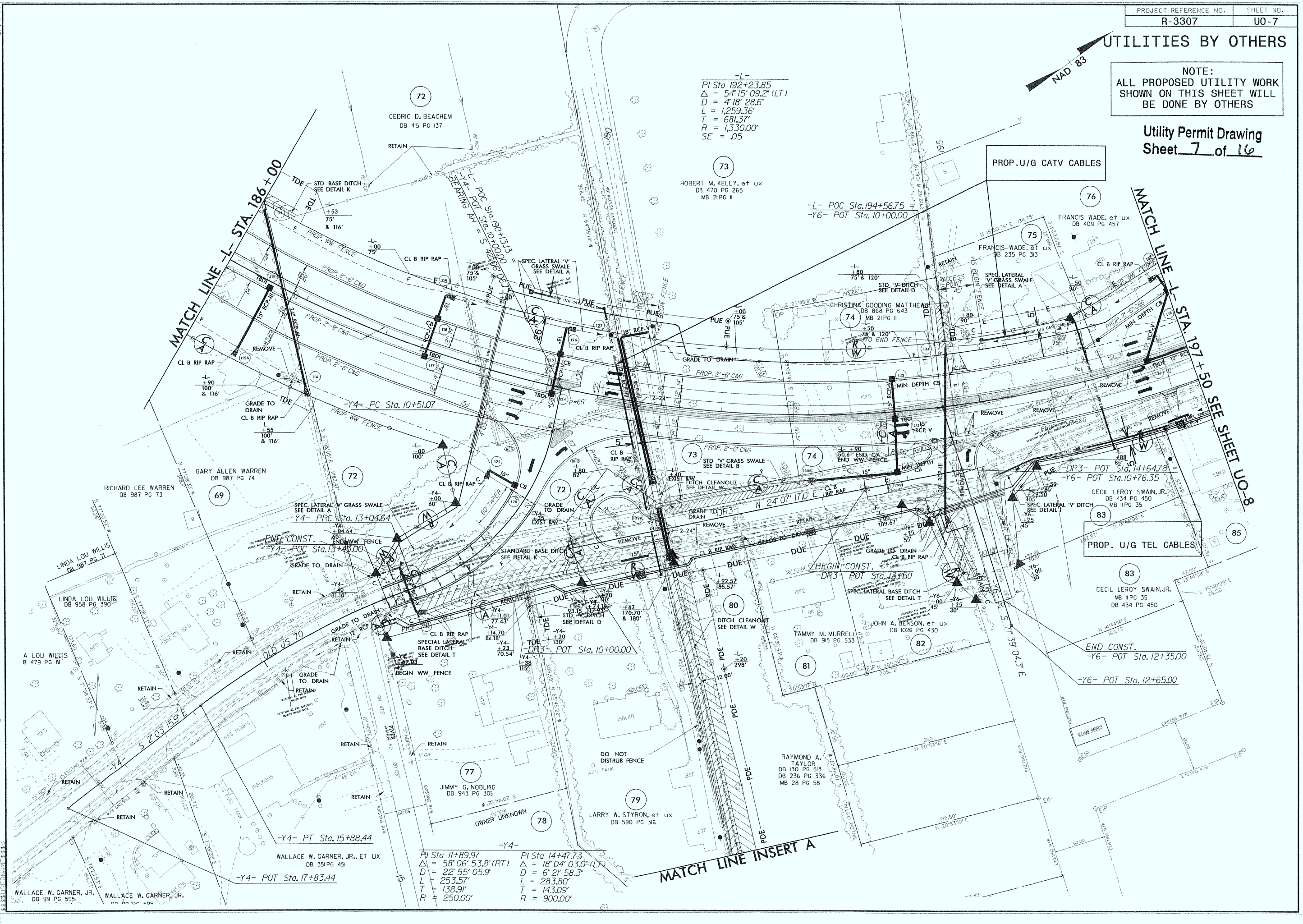
NAD 83



UTILITIES BY OTHERS

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

Utility Permit Drawing Sheet 7 of 16



PI Sta 192+23.85  
Δ = 54°15'09.2" (LT)  
D = 4'18" 28.6"  
L = 1,259.36'  
T = 681.37'  
R = 1,330.00'  
SE = .05

-L- POC Sta.194+56.75  
-Y6- POT Sta.10+00.00

PI Sta 11+89.97 Δ = 58°06'53.8" (RT)  
D = 22°55'05.9" L = 253.57'  
T = 138.91' R = 250.00'  
PI Sta 14+47.73 Δ = 18°04'03.0" (LT)  
D = 6'21" 58.3" L = 283.80'  
T = 143.09' R = 900.00'



MATCH LINE -L- STA. 186+00

MATCH LINE -L- STA. 197+50 SEE SHEET UO-8

MATCH LINE INSERT A

5/14/99  
D:\AUGUST\2001\443...  
D:\AUGUST\2001\443...  
D:\AUGUST\2001\443...

WALLACE W. GARNER, JR. DB 99 PG 555  
WALLACE W. GARNER, JR. DB 99 PG 505

-Y4- PT Sta. 15+88.44  
-Y4- POT Sta. 17+83.44

PROPS. U/G TEL CABLES

PROPS. U/G CATV CABLES

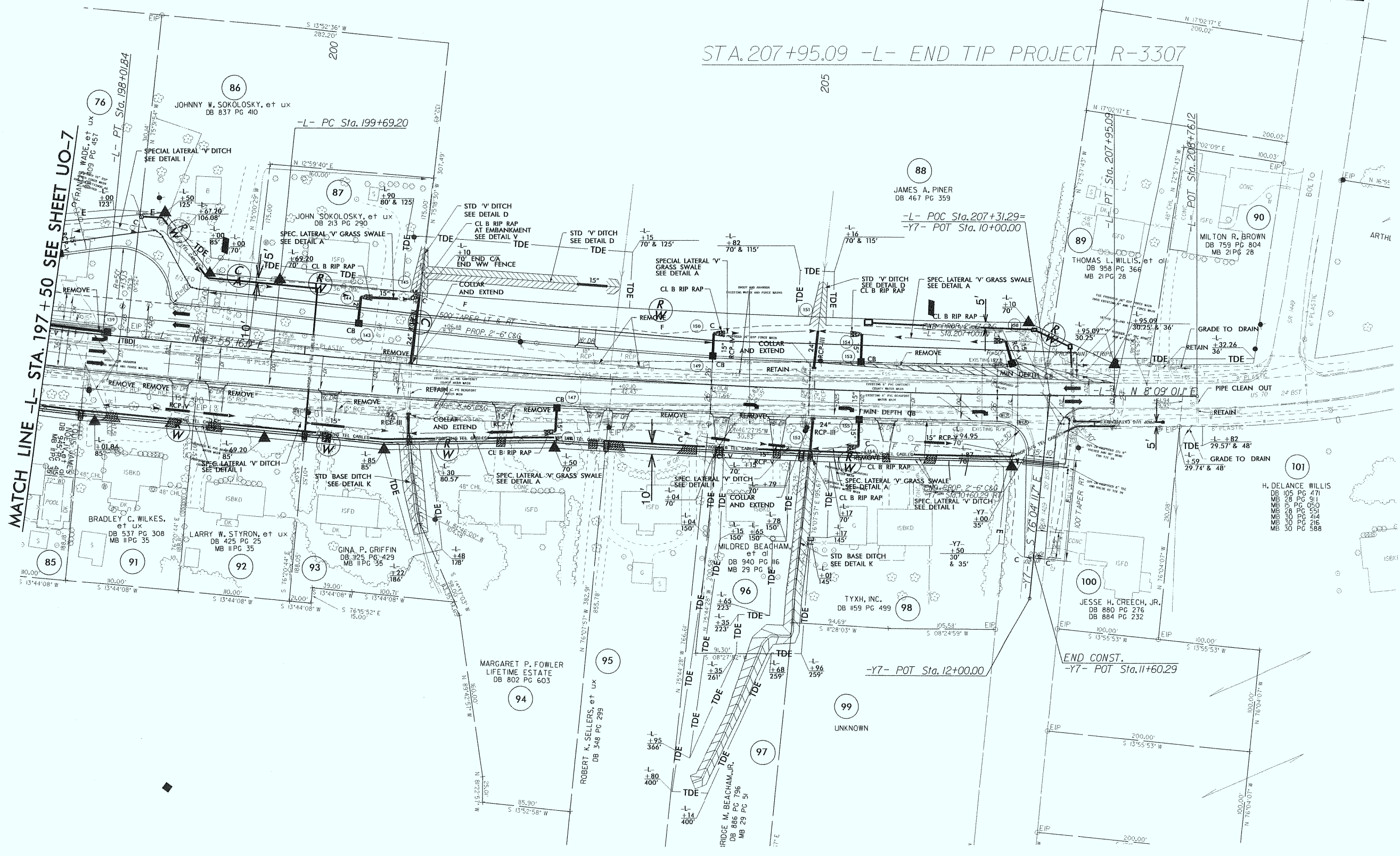
NAD 83 UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 8 of 16

-L-  
PI Sta 192+23.85 Δ = 54° 15' 09.2" (LT) D = 4' 18" 28.6" L = 1,259.36' T = 681.37' R = 1,330.00' SE = .05  
PI Sta 203+82.50 Δ = 5° 46' 14.8" (LT) D = 0' 41" 55.4" L = 825.90' T = 413.30' R = 8,200.00' SE = NC


STA. 207+95.09 -L- END TIP PROJECT R-3307



04-AUG-2011 10:37  
 C:\p04\3307\UO-8.dwg  
 UO-8.dwg  
 3307-UT-19-UC8.psh.dgn  
 5/14/09

UTILITIES BY OTHERS

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

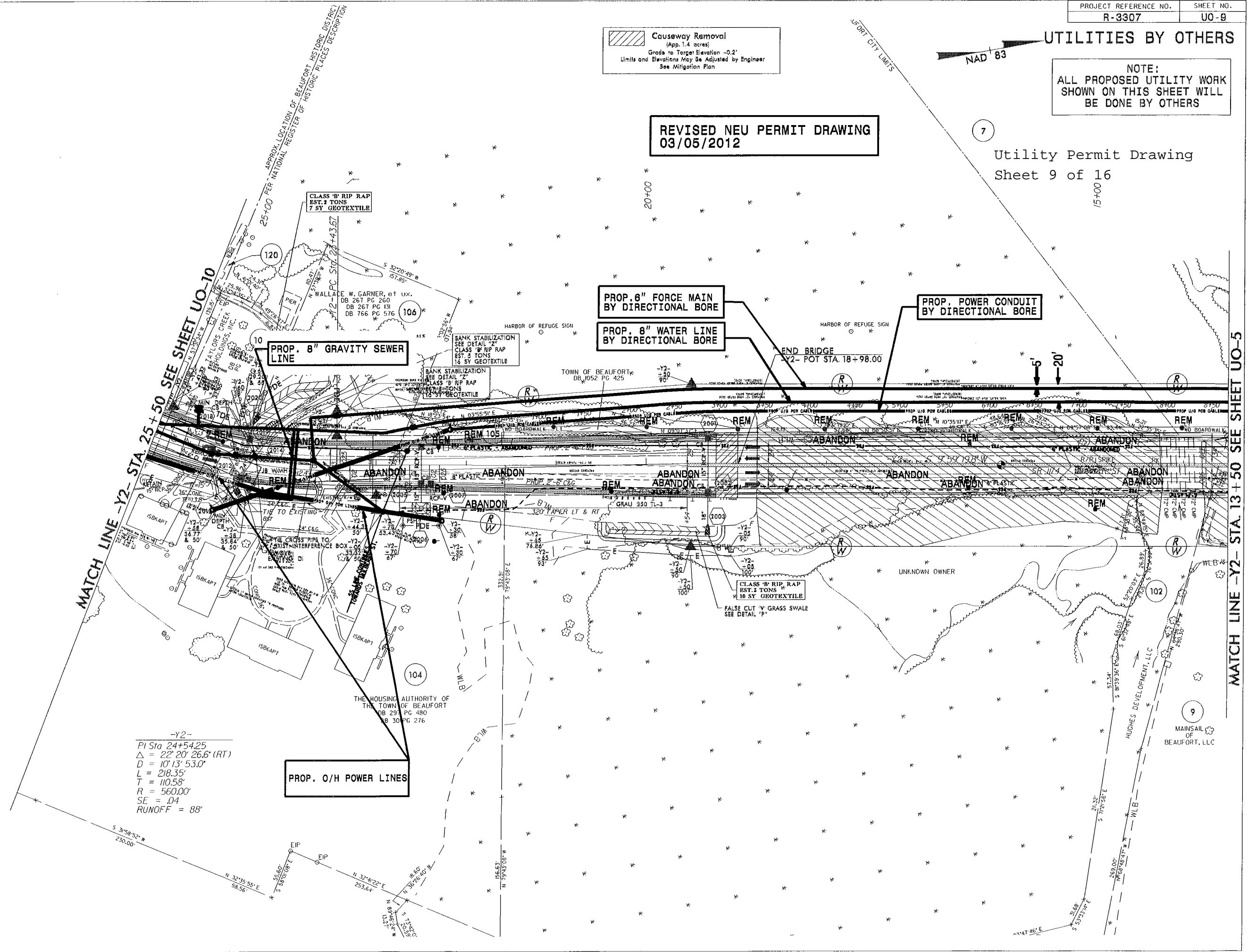
 Causeway Removal  
(App. 1.4 acres)  
Grade to Target Elevation -0.2'  
Limits and Elevations May Be Adjusted by Engineer  
See Mitigation Plan

REVISED NEU PERMIT DRAWING  
03/05/2012

Utility Permit Drawing  
Sheet 9 of 16

5/14/99

05-MAR-2012 12:34  
\\sfs\GIS\Projects\3307\Drawings\UO-9.dgn



-Y2-  
PI Sta 24+54.25  
Δ = 22° 20' 26.6" (RT)  
D = 10' 13' 53.0"  
L = 218.35'  
T = 110.58'  
R = 560.00'  
SE = .04  
RUNOFF = 88'

PROP. 0/H POWER LINES

PROP. 8" GRAVITY SEWER LINE

PROP. 8" FORCE MAIN BY DIRECTIONAL BORE

PROP. 8" WATER LINE BY DIRECTIONAL BORE

PROP. POWER CONDUIT BY DIRECTIONAL BORE

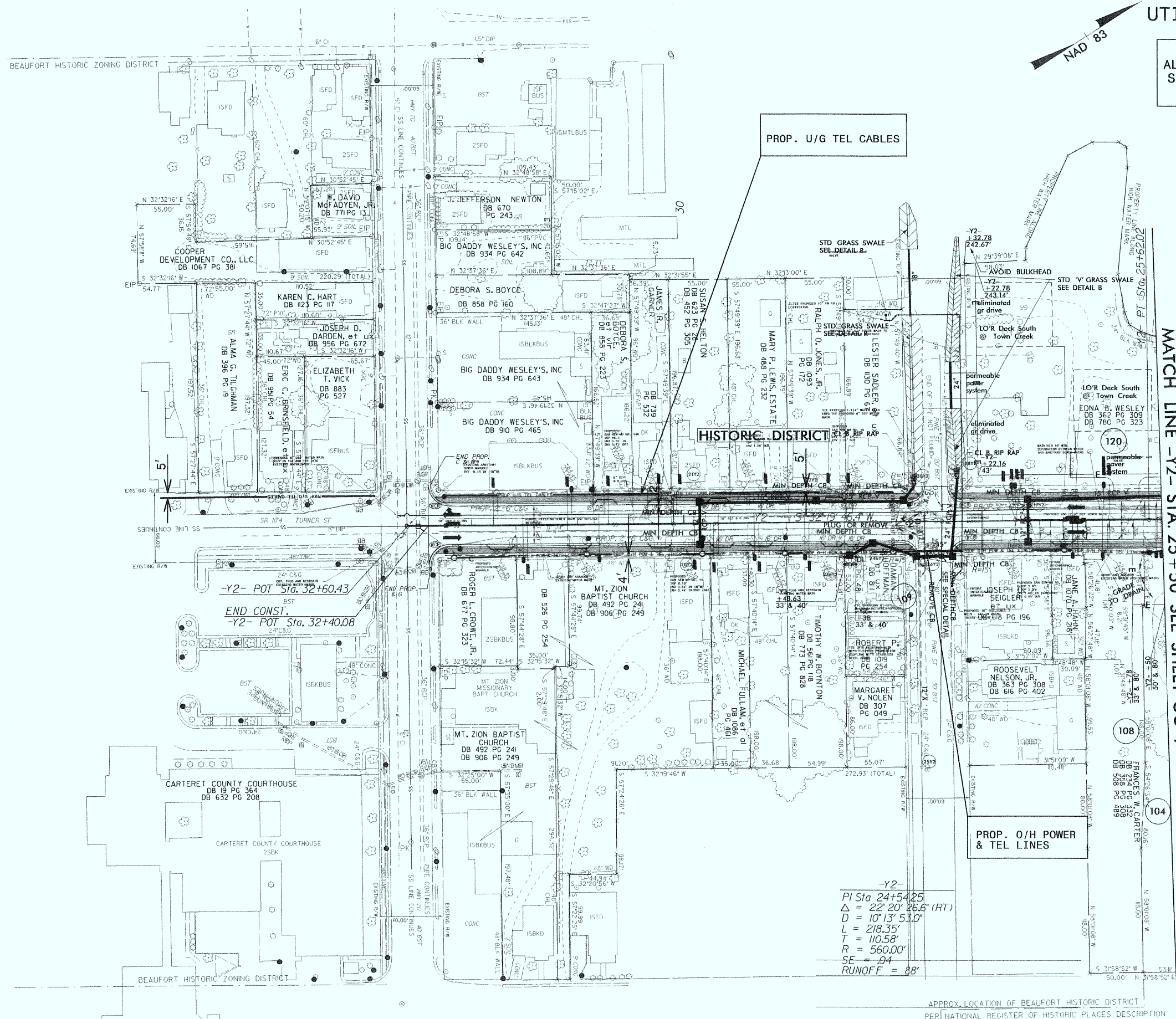
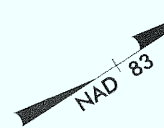
MATCH LINE -Y2- STA 13+50 SEE SHEET UO-5

MATCH LINE -Y2- STA 25+50 SEE SHEET UO-10

# UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 10 of 16



PROP. U/G TEL CABLES

PROP. O/H POWER & TEL LINES

-Y2-  
PI Sta 24+54.25  
 $\Delta = 22' 20'' 26.6'' (RT)$   
 $D = 10' 13'' 53.0''$   
 $L = 218.35'$   
 $T = 110.58'$   
 $R = 560.00'$   
 $SE = .04$   
 $RUNOFF = 88'$

MATCH LINE -Y2- STA. 25 + 50 SEE SHEET UO-9

APPROX. LOCATION OF BEAUFORT HISTORIC DISTRICT  
PER NATIONAL REGISTER OF HISTORIC PLACES DESCRIPTION

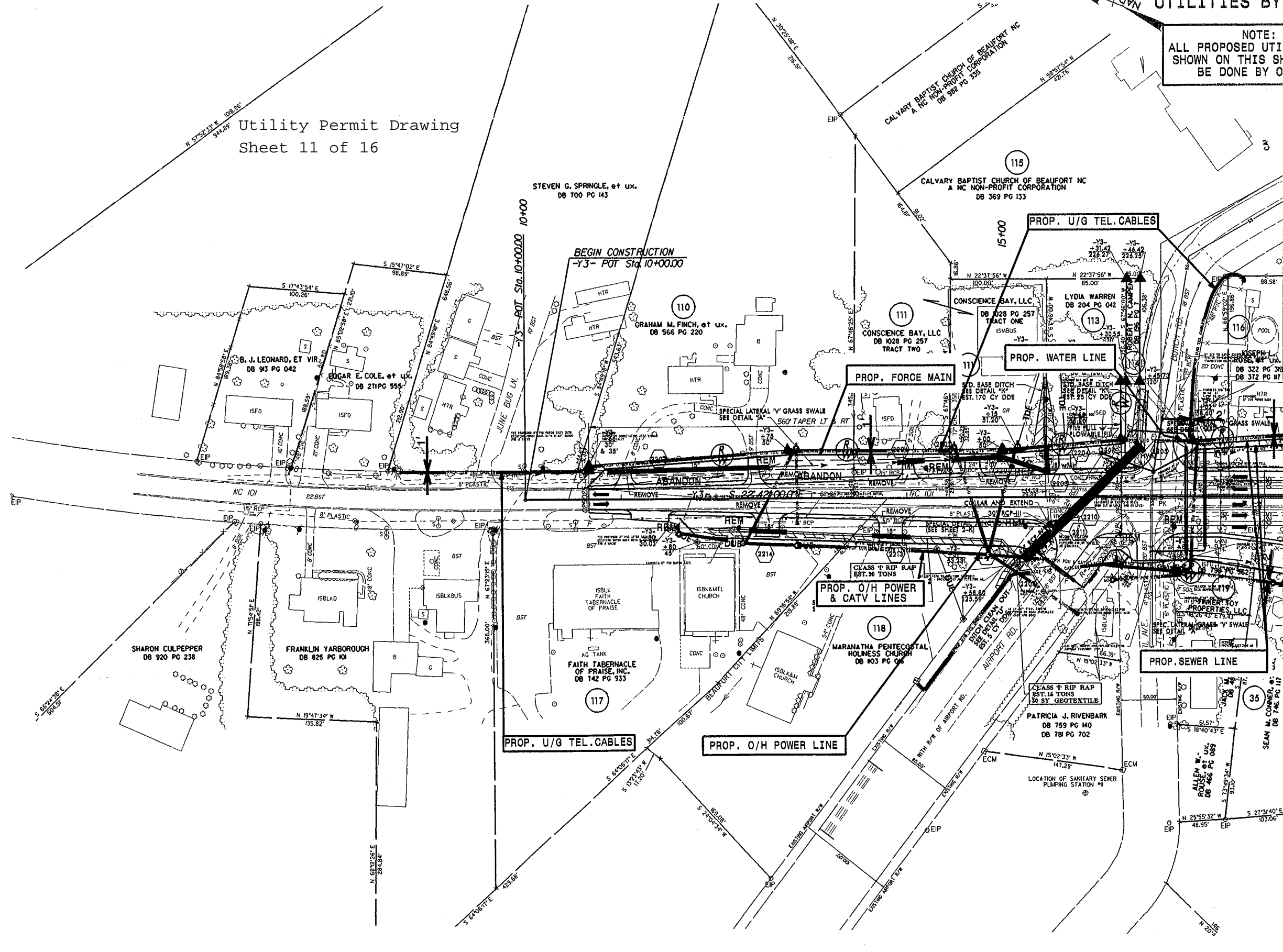
04-AUG-2011 11:29  
C:\Users\jacob\Documents\3307-ut-21\ut010.psh.dgn  
5:14/09

UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 11 of 16

01-MAY-2012 15:01  
R:\Utilities\Projects\3307\ut-22.uol.psh.dgn



MATCH LINE -Y3- STA. 18+00 SEE SHEET UO-6

STEVEN G. SPRINGLE, et ux.  
DB 700 PG 143

CALVARY BAPTIST CHURCH OF BEAUFORT NC  
A NC NON-PROFIT CORPORATION  
DB 369 PG 133

GRAHAM M. FINCH, et ux.  
DB 566 PG 220

CONSCIENCE BAY, LLC  
DB 1028 PG 257  
TRACT TWO

LYDIA WARREN  
DB 204 PG 042

OB. J. LEONARD, ET VIR.  
DB 913 PG 042

EDGAR E. COLE, et ux.  
DB 211 PG 555

SHARON CULPEPPER  
DB 920 PG 238

FRANKLIN YARBOROUGH  
DB 825 PG 101

FAITH TABERNACLE  
OF PRAISE, INC.  
DB 142 PG 933

MARANATHA PENTECOSTAL  
HOLINESS CHURCH  
DB 803 PG 006

PATRICIA J. RIVENBARK  
DB 759 PG 140  
DB 781 PG 702

ALLEN W. LYNCH, et ux.  
DB 466 PG 089

SEAN M. CONNER, et ux.  
DB 746 PG 117





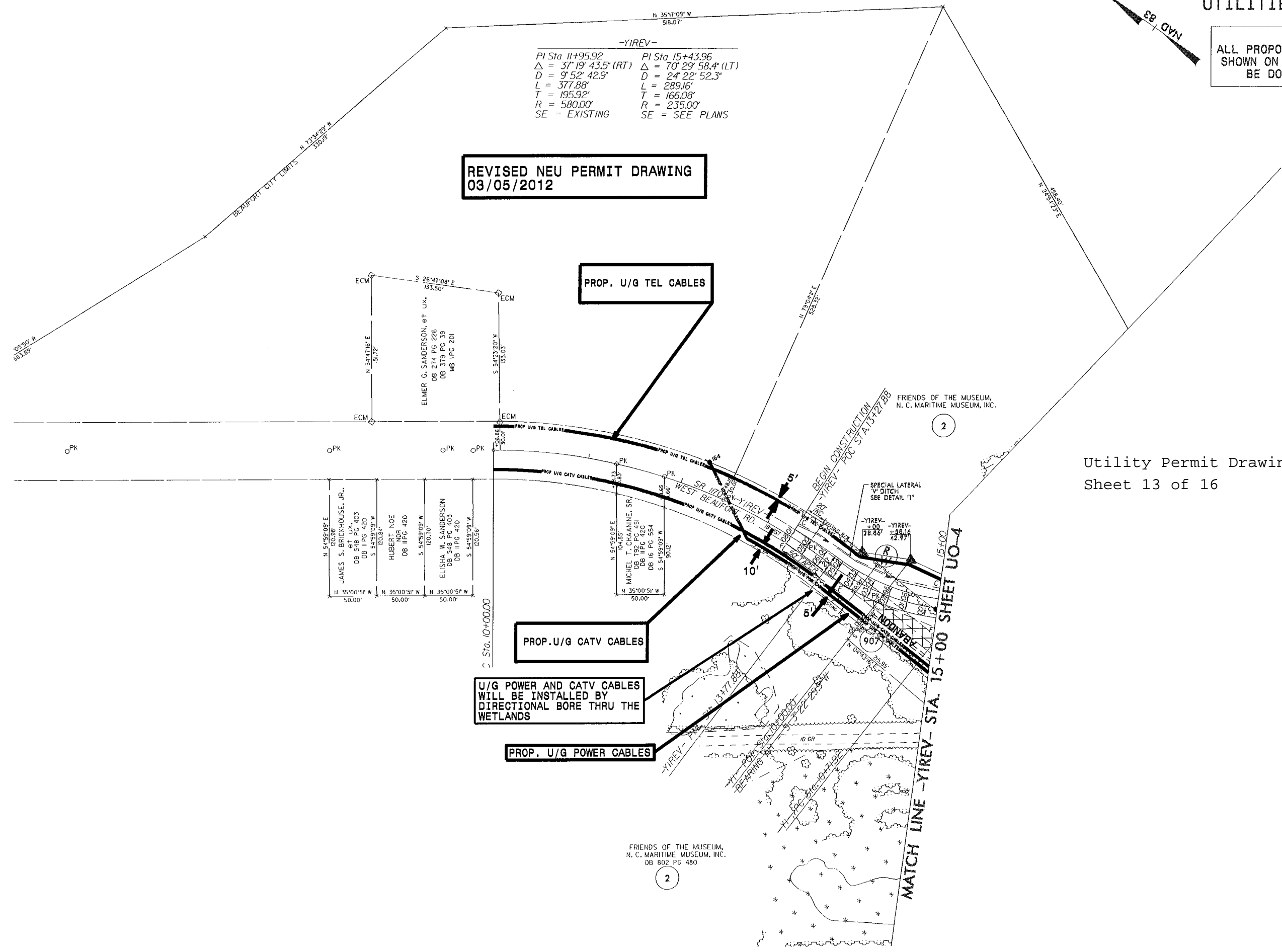
UTILITIES BY OTHERS

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

5/14/99

-YIREV-  
PI Sta 11+95.92 PI Sta 15+43.96  
Δ = 37° 19' 43.5" (RT) Δ = 70° 29' 58.4" (LT)  
D = 9° 52' 42.9" D = 24° 22' 52.3"  
L = 377.88' L = 289.16'  
T = 195.92' T = 166.08'  
R = 580.00' R = 235.00'  
SE = EXISTING SE = SEE PLANS

REVISED NEU PERMIT DRAWING  
03/05/2012



PROP. U/G TEL CABLES

PROP. U/G CATV CABLES

U/G POWER AND CATV CABLES  
WILL BE INSTALLED BY  
DIRECTIONAL BORE THRU THE  
WETLANDS

PROP. U/G POWER CABLES

Utility Permit Drawing  
Sheet 13 of 16

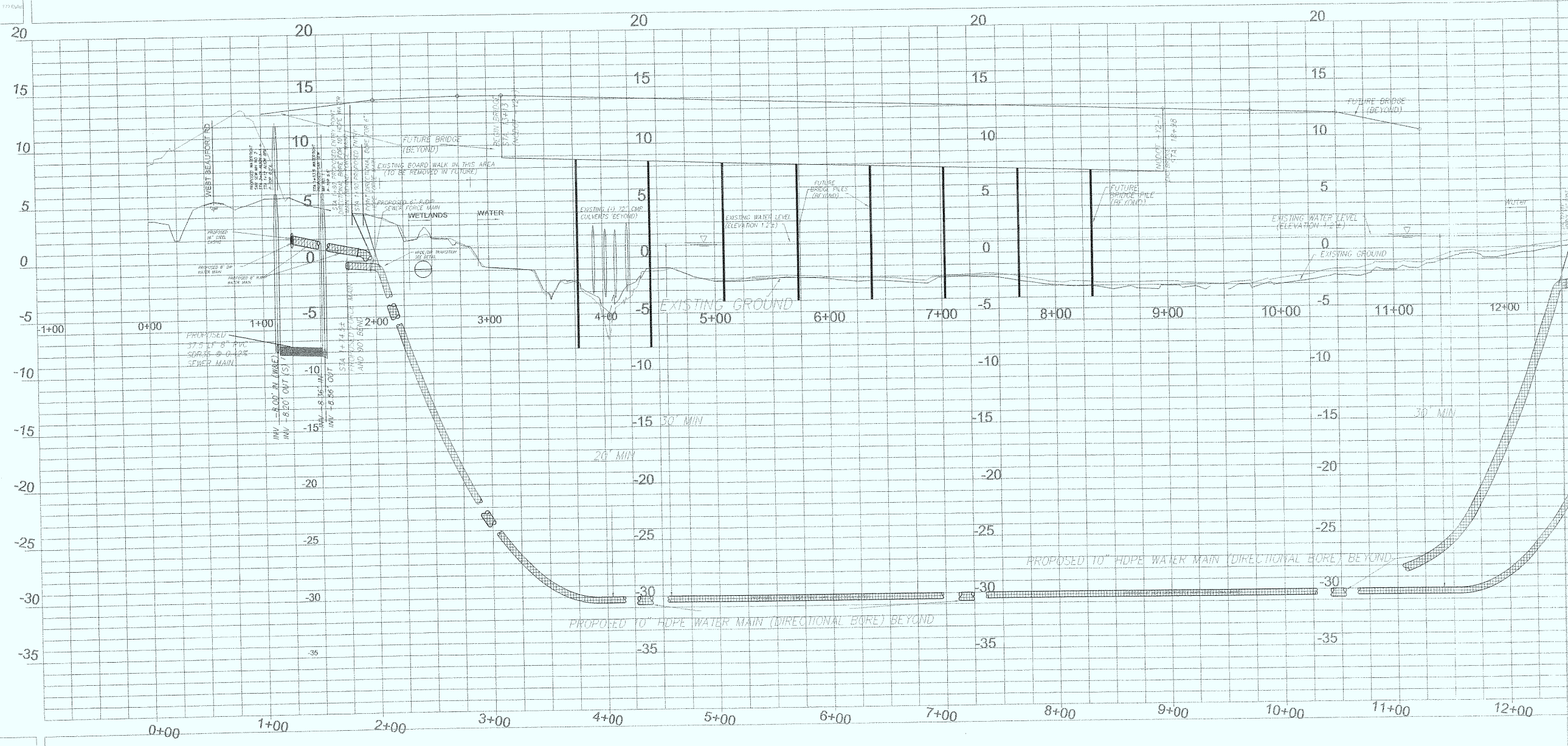
05-MAR-2012 11:03  
\\sfs\user\jmc\work\3307\ut\_24\ut\_13.psd.dgn

UTILITIES BY OTHERS

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

Utility Permit Drawing  
Sheet 14 of 16

PROP. 10" HDPE WATER MAIN 7 6" SEWER LINE PROFILES



MATCH LINE SEE SHEET UO-15

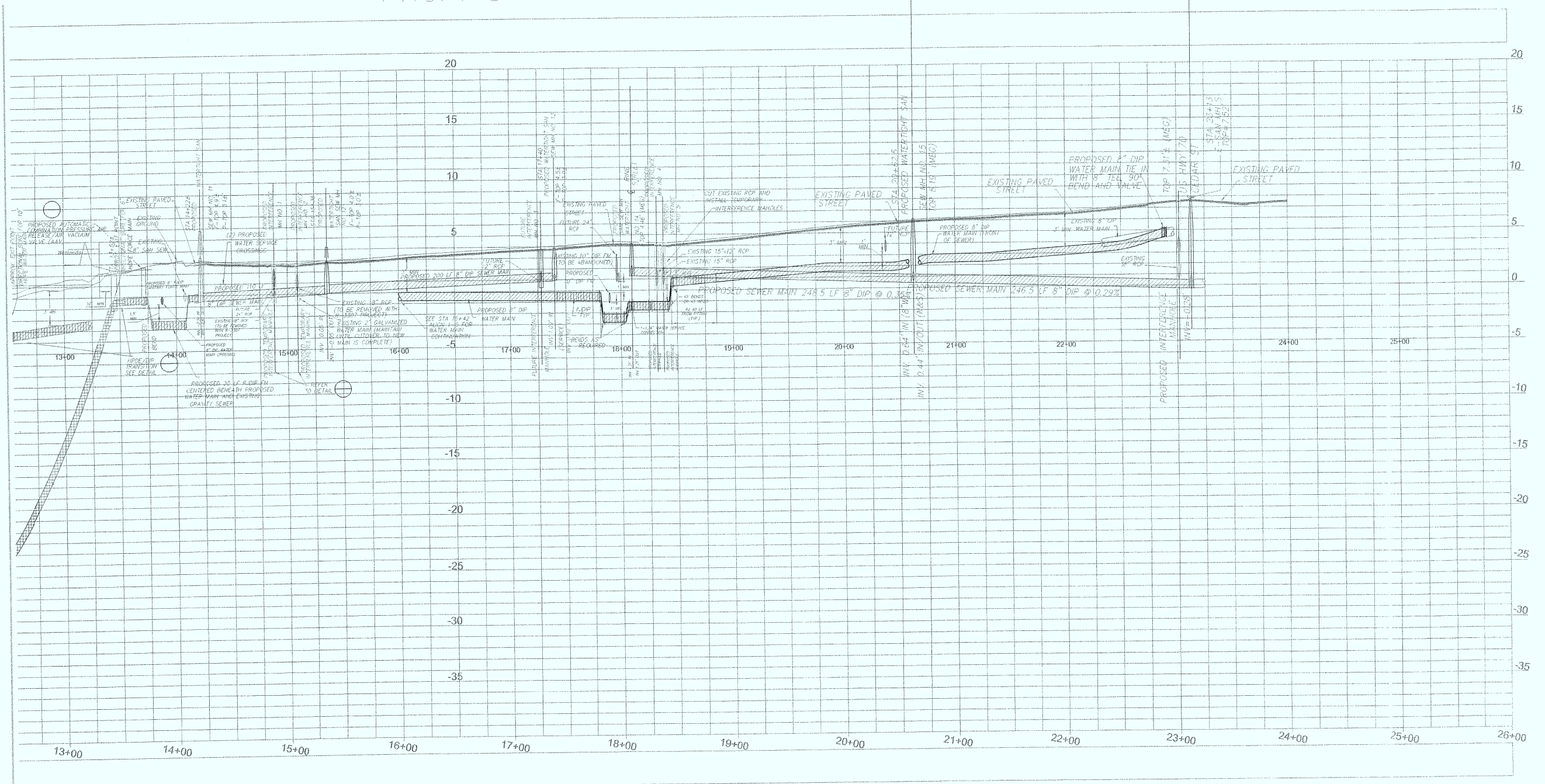
5/14/99  
DATE  
DRAWN BY  
CHECKED BY  
APPROVED BY  
SCALE  
SHEET NO.  
PROJECT NO.  
SHEET TITLE

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

Utility Permit Drawing  
Sheet 15 of 16

# PROP. 8" WATER MAIN & PROP. 8" SEWER LINE PROFILES

MATCH LINE SEE SHEET 26



5/14/99

SYSTEMS  
ENGINEERS

**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
<b>TOTALS:</b>			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

All proposed underground utilities will be installed by trenchless installation thru the wetlands.

No hand clearing is proposed for aerial utilities thru the wetlands.

Utility Permit Drawing  
Sheet 16 of 16

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CARTERET COUNTY  
TIP PROJECT (R-3307)

ATN Revised 3/31/05

Revised 3/5/2012