

## **Appendix G**

### **City of Stamford Comments on D&M Plan**

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From: "Sripa, Wareeya" <WSripa@ci.stamford.ct.us>  
To: "Karukonda, Veera" <VKarukonda@ci.stamford.ct.us>, Les Hinzman <lhinzman@powereng.com>, Peter A. Novak/NUS@NU, Elizabeth Hale/NUS@NU, Michael J. Golebieski/NUS@NU, "Poola, Mani" <MPoola@ci.stamford.ct.us>, Marcia E. Wellman/NUS@NU, Bradford J. Shaw/NUS@NU, Anuj Mathur/NUS@NU  
Cc: "Casolo, Louis" <LCasolo@ci.stamford.ct.us>  
Date: 10/04/2013 05:01 PM  
Subject: RE: CL&P: Stamford Reliability Cable Project: City of Stamford

Hi Anuj,

Lou asked me to forward his review comments up to Page 5-5 to you today for review. His comments for the remaining will be forth coming. Please see attachments for comment details.

Veera will supply his comments in a separate e-mail.

Please note that the City plans to phone into the meeting on Monday.

Regards,

**Wareeya Sripa**

Administrative Officer, Engineering Bureau  
City of Stamford  
888 Washington Blvd  
Stamford, CT 06901  
Phone (203) 977-5169  
Fax (203) 977-4137

**From:** Karukonda, Veera  
**Sent:** Friday, October 04, 2013 4:55 PM  
**To:** Sripa, Wareeya  
**Cc:** Les Hinzman; peter.novak@nu.com; elizabeth.hale@nu.com; michael.golebieski@nu.com; Poola, Mani; marcia.wellman@nu.com; bradford.shaw@nu.com; 'anuj.mathur@nu.com'  
**Subject:** RE: CL&P: Stamford Reliability Cable Project: City of Stamford -- Traffic Signaling Communication Duct (Request for Information on Hand Holes)



**CSC Docket No. 435: STAMFORD RELIABILITY CABLE PROJECT, Stamford, CT**

**Development and Management Plan Vol. II of III (construction activities associated with 115-kV underground transmission line)**

**Reviewed by Lou Casolo, City of Stamford, Engineering Bureau 10/04/2013.**

**I have completed a cursory review of this document up to page 5-5**

Page 1-1

- Identify the easement properties, and easement process.

Page 1-4, Page 3-2

- Review Dewatering plan from WPCA and incorporate into D&M Plan Vol. III

Page 1-7, Page 3-3 Section 3.2.4, Page 5-1 Sec. 5.2

- Incorporate Soil Erosion and Sediment Control plan details from C.O.S.

Page 2-1 Sec. 2.1

- “All of Project work will be at upland sites.” – Identify the logistic routes, if road closure is needed, item must be reviewed by C.O.S., Traffic Advisory Committee (TAC) Meeting

Page 3-1

- Sec. 3.1: Trench and Roadway work will be monitored by personnel from C.O.S. Engineering Bureau’s Clerk of Works. Cost for this service to be funded by CL&P.
- Sec. 3.2.1: Identify staging areas on the plan.
- Sec. 3.2.2: Site preparation may include setting up traffic control measures.

Page 3-6 Sec 3.2.10

- Verify trench excavation dimensions, it is deeper shown in profile especially at utility crossings, report indicates 5’9” deep.
- Steel plate shall not be used in winter.

Page 3-8, Sec. 3.4

- If pipe jacking operation is required, it must be in compliance with City’s Noise Ordinance.

Page 3-10, Sec. 3.2.9

- Outline process for disposal of contaminated excess materials.
- If blasting is required, must obtain Demolition Permit from C.O.S. Building Department and Fire Marshal.

Page 3-10, Sec. 3.7.2

- TPR + Mill & Overlay
- Incorporate Pavement Restoration plan from COS Engineering in the D&M Plan, see plan review comments on prior e-mail from City.
- Comply with C.O.S. Street Opening Permit process

Page 4-1, Sec. 4.2

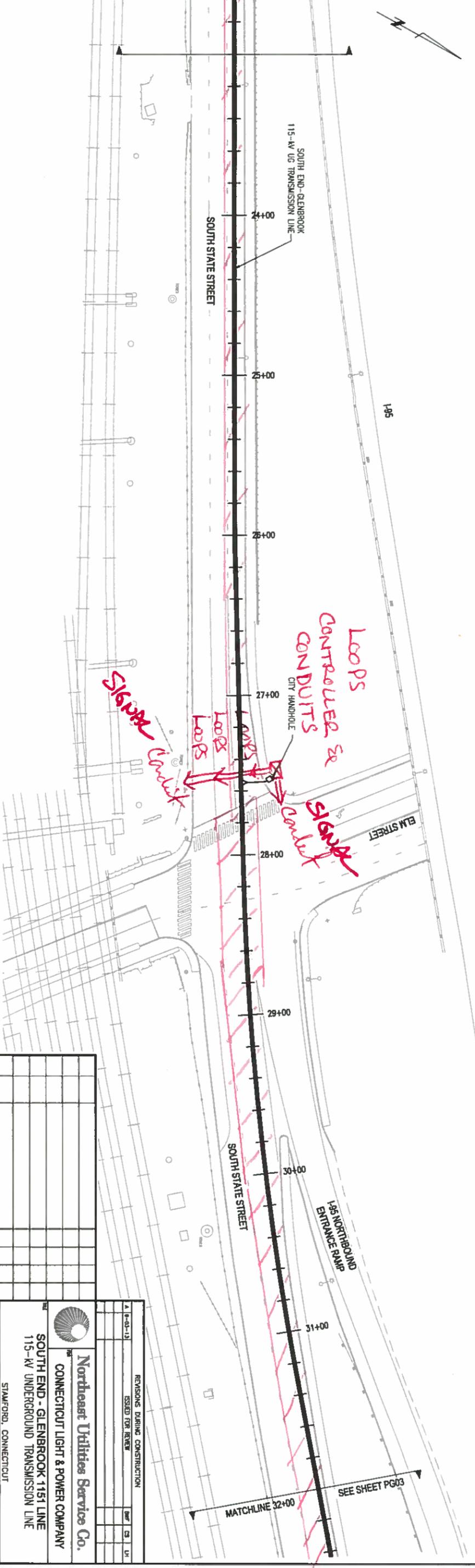
- Work hours identified require Noise Permit Waiver from C.O.S. Health Department.
- Culloden Road is a residential street and is also a route that experiencing large traffic flows, including school bus routes which shall not be closed.

Page 5-5, Sec. 5.6.1

- When road closure is required, alternative traffic plans must be reviewed by C.O.S., Traffic Advisory Committee (TAC) Meeting.
- Public Outreach must be conducted to alert residents of project activities.
- Must comply with City's Noise Ordinance
- In the event that the hours of construction performed before 7am on weekdays or before 8am on weekends, Noise Permit Waiver must be obtained and approved by C.O.S. Health Department.



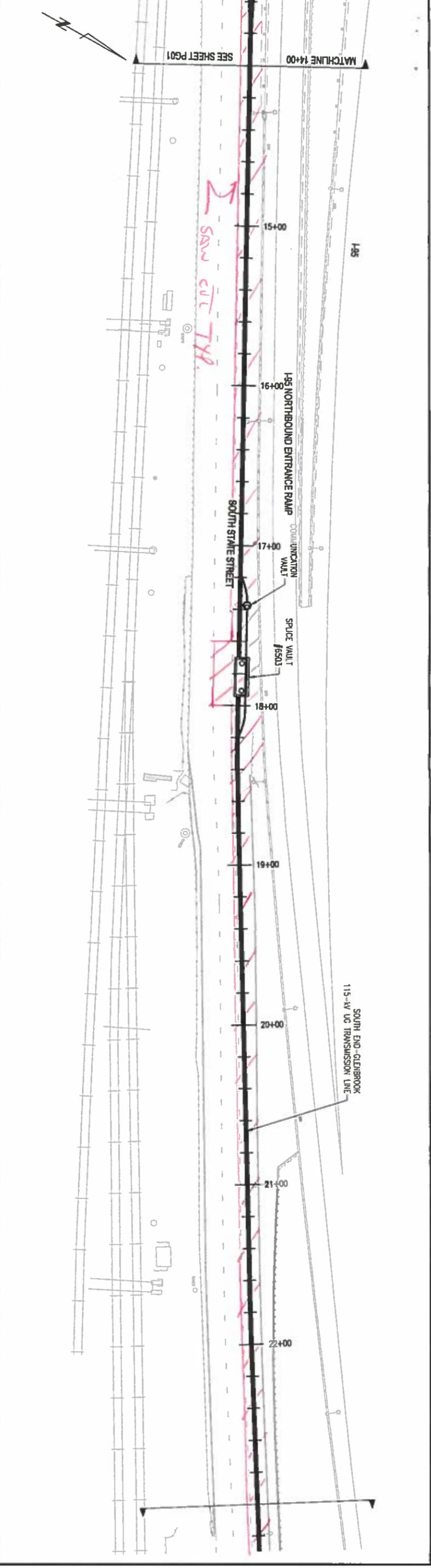
FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT



NO.	DATE	BY	CHK	APP	DESCRIPTION
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2	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
3	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
4	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
5	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
6	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
7	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
8	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
9	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
10	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT

<b>Revisions During Construction</b> ISSUED FOR REVIEW					
NO.	DATE	BY	CHK	APP	DESCRIPTION
1	09-03-2013	CS	CS	LI	ISSUED FOR REVIEW
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9	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT
10	09-03-2013	CS	CS	LI	STAMPED, CONNECTICUT

**Northwest Utilities Service Co.**  
 CONNECTICUT LIGHT & POWER COMPANY  
 SOUTH END - GLENBROOK 115kV LINE  
 115-KV UNDERGROUND TRANSMISSION LINE  
 STATIONED, CONNECTICUT  
 23370P-1  
 01515-11001PG02

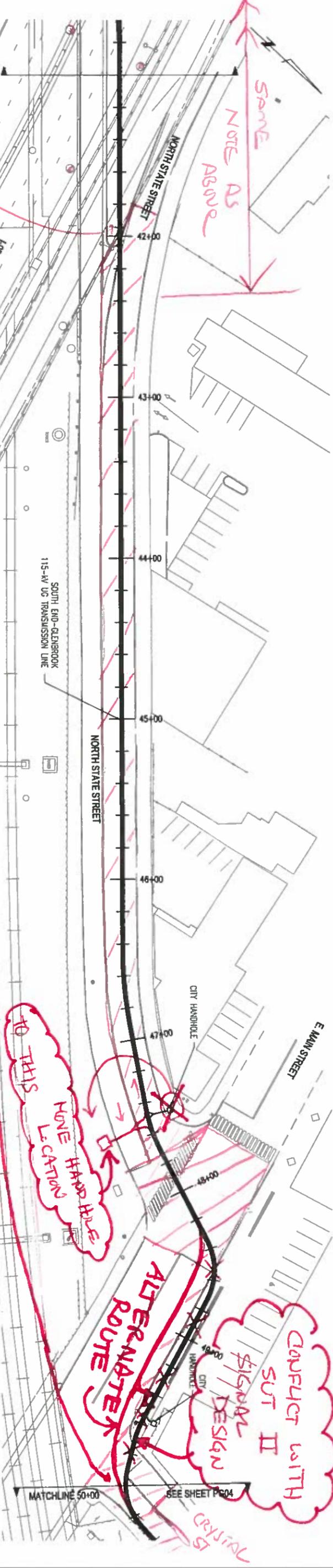




FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT

CALL OUT ALL TRAFFIC SIGN RELOCATIONS TYP

EXISTING STREET LIGHTS CONCRETE PAVEMENT W/ASH SET OVERLAY ACCOUNT FOR THIS (TYP) REPAIR



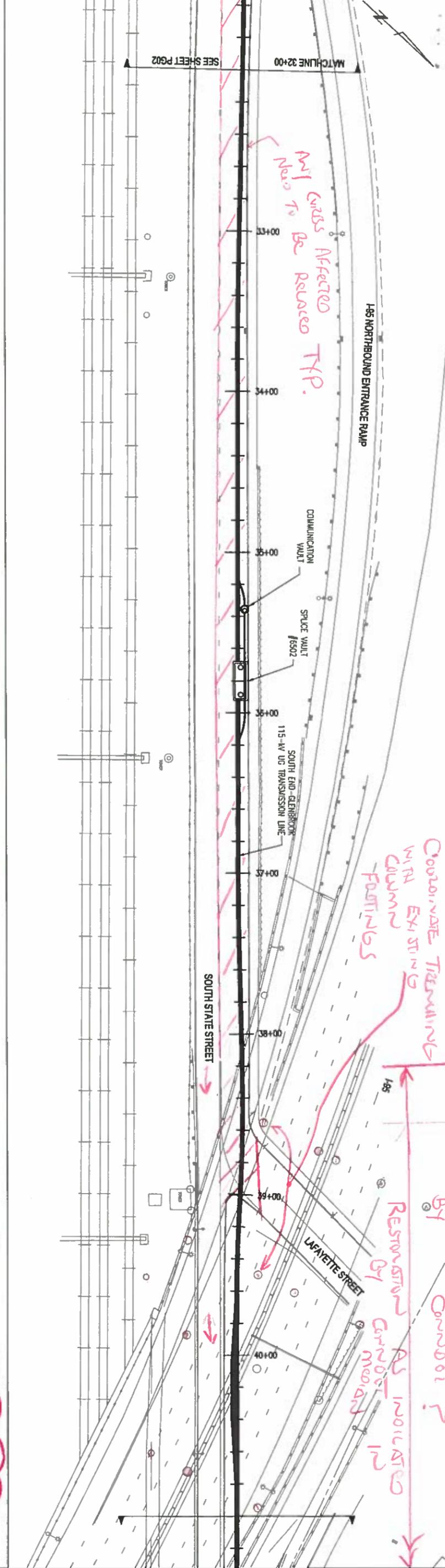
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2	09-03-2013	CS	LI		REVISIONS DURING CONSTRUCTION
3	09-03-2013	CS	LI		ISSUED FOR REVIEW

SCALE	DATE	PROJECT	DRAWING NO.
1" = 30'	08-23-2013	SOUTH END - GLENBROOK 1151 LINE	23370P1
2.1-2	09-03-2013	115-AV UNDERGROUND TRANSMISSION LINE	01515-11001P003



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NO.	DATE	BY	CHK	APP	REVISIONS
1	08-23-2013	CS	LI		ISSUED FOR REVIEW
2	09-03-2013	CS	LI		REVISIONS DURING CONSTRUCTION
3	09-03-2013	CS	LI		ISSUED FOR REVIEW

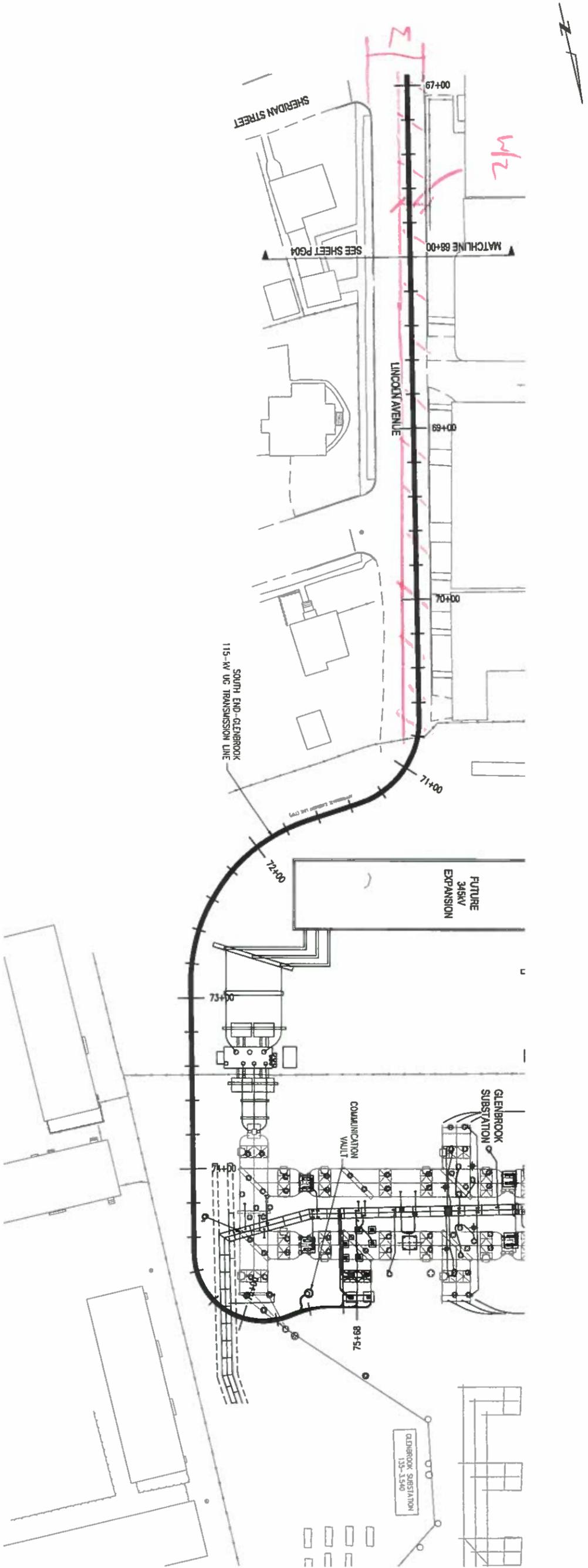
SCALE	DATE	PROJECT	DRAWING NO.
1" = 30'	08-23-2013	SOUTH END - GLENBROOK 1151 LINE	23370P1
2.1-2	09-03-2013	115-AV UNDERGROUND TRANSMISSION LINE	01515-11001P003



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NO.	DATE	BY	CHK	APP	REV
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REVISIONS DURING CONSTRUCTION  
 ISSUED FOR REVIEW

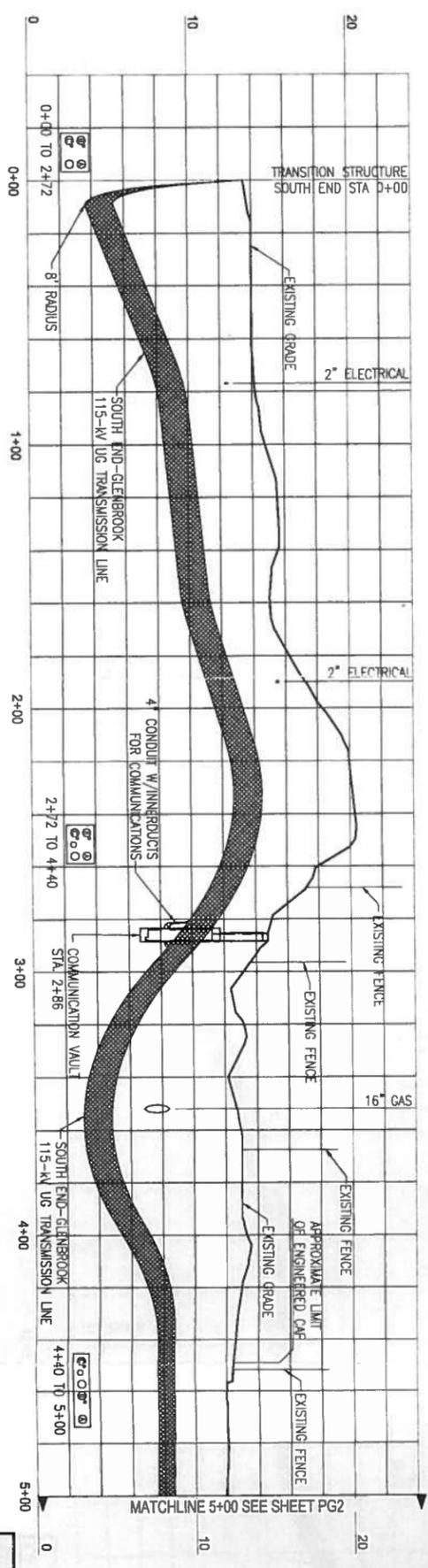
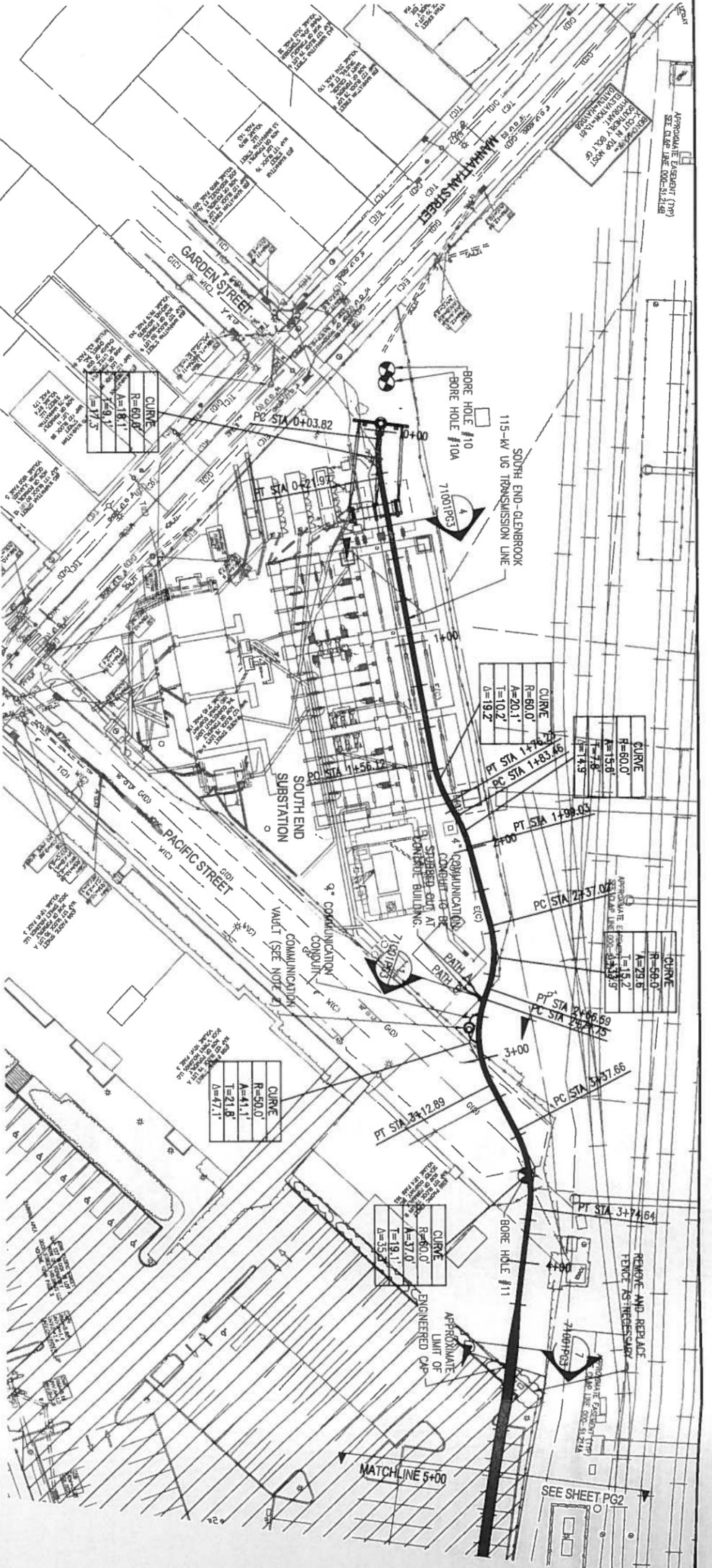
**Northeast Utilities Service Co.**  
 CONNECTICUT LIGHT & POWER COMPANY

SOUTH END - GLENBROOK 1151 LINE  
 115-kV UNDERGROUND TRANSMISSION LINE

STAMFORD, CONNECTICUT

DATE: 08-01-2013  
 TIME: 1:30  
 DRAWN: D  
 CHECKED: Z-1-2  
 SCALE: 1"=30'  
 PROJECT NO: 000-51-138  
 DRAWING NO: 01515-11001PG05





- NOTE**
- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED IN PART FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO NORTHEAST UTILITIES SERVICES COMPANY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1.800.922.4455.
  - LEAVE 200' OF FIBER OPTIC CABLE COILED IN COMMUNICATION VAULT, TO BE INSTALLED BY OTHERS.

"FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"



TWO BUSINESS DAYS BEFORE YOU DIG CALL CONNECTICUT ONE CALL TOLL FREE 1-800-922-4455



NO.	DATE	BY	CHK	APP
1	11-30-2012	AS BUILT REVISIONS		
2	11-30-2012			
3	11-30-2012			
4	11-30-2012			
5	11-30-2012			

**Revisions During Construction**

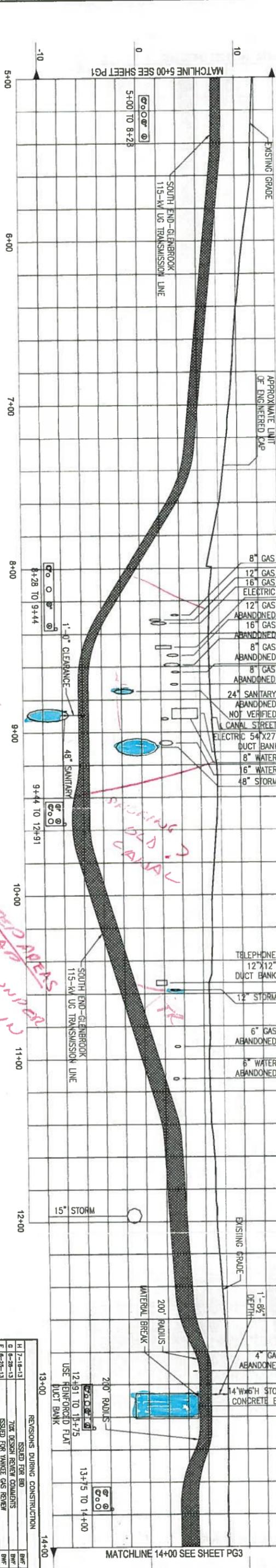
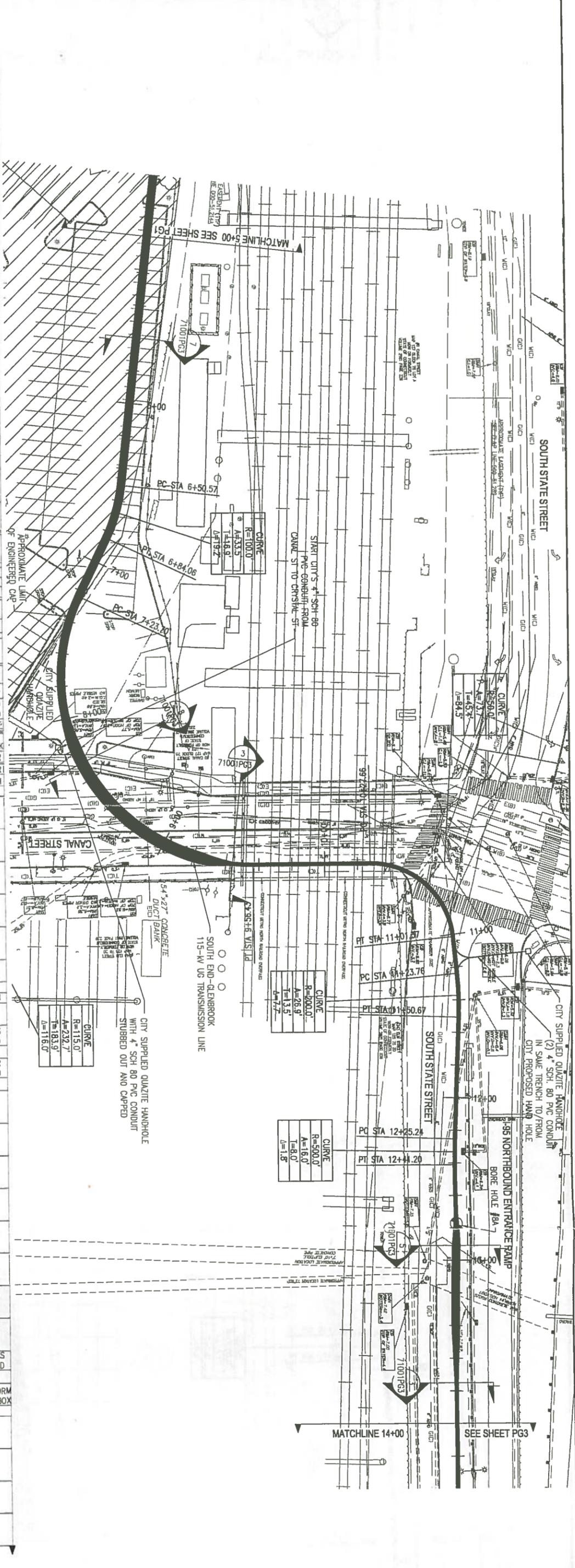
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G	8-28-13			
F	8-28-13			
E	8-14-13			

**Northwest Utilities Service Co.**  
CONNECTICUT LIGHT & POWER COMPANY

LINE 1151 SOUTH END - GLENBROOK  
115-KV UNDERGROUND TRANSMISSION LINE  
PLAN and PROFILE STA 0+00 TO 5+00  
STAMFORD, CONNECTICUT

DATE: 11-30-2012  
SCALE: 1" = 30'  
BY: [Signature]  
CHECKED: [Signature]  
DATE: 11-30-2012  
SCALE: 1" = 5'  
BY: [Signature]  
CHECKED: [Signature]  
DATE: 11-30-2012

23370P1  
01515-10001PG1



**NOTE**

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\*FOR CURRENT NISCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT

*Handwritten notes:*  
 1'-0" CLEARANCE  
 48" SANITARY  
 12" STORM  
 6" GAS ABANDONED  
 6" WATER ABANDONED  
 15" STORM  
 200' RADIUS  
 200' RADIUS  
 12+91 TO 13+75  
 USE HENFORD FLAT  
 DUCT BANK

*Handwritten notes:*  
 DIRT AREAS  
 ROCK UNDER  
 UTILITIES IN  
 BOG AREA

TWO BUSINESS DAYS BEFORE YOU DIG CALL  
 CONNECT CUT ONE CALL  
 TOLL FREE  
 1-800-922-4455



NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	LOG

REV	DATE	DESCRIPTION	BY	CHK	APP
H	7-18-13	ISSUED FOR BID	BWF	CS	UH
D	6-28-13	70% DESIGN REVIEW COMMENTS	BWF	CS	UH
F	6-25-13	ISSUED FOR VANCE GAS REVIEW	BWF	CS	UH
E	6-10-13	70% DESIGN REVIEW	BWF	CS	UH

REV	DATE	DESCRIPTION	BY	CHK	APP
B	11-30-2012	CONNECTIONS	BWF	CS	UH
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E	11-30-2012	CONNECTIONS	BWF	CS	UH

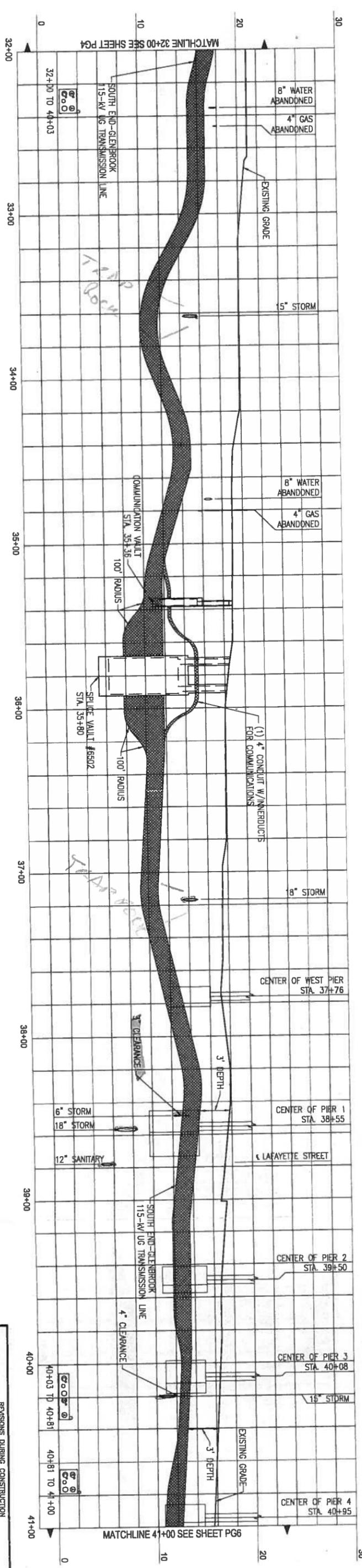
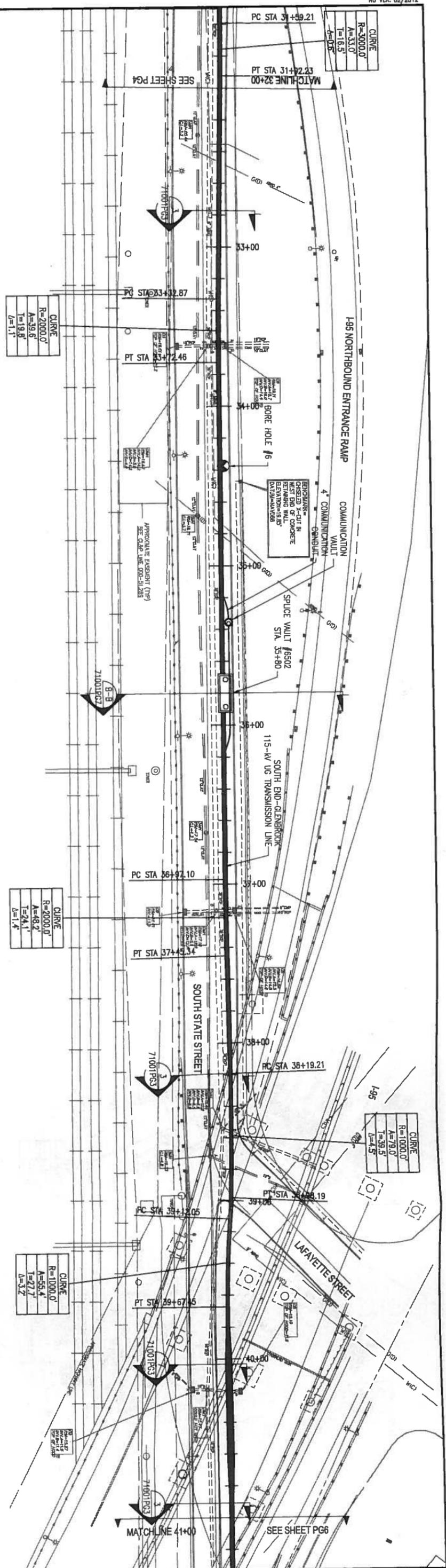
  

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PROJECT NO.	23370P1	DRAWN BY	BWF
PROJECT LOCATION	STAMFORD, CONNECTICUT	CHECKED BY	CS
PROJECT NUMBER	01515-10001PG2	DATE	11-30-2012

**Northeast Utilities Service Co.**  
 CONNECTICUT LIGHT & POWER COMPANY







**NOTE**

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"FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT"



TWO BUSINESS DAYS BEFORE YOU DIG CALL CONNECTICUT ONE CALL TOLL FREE 1-800-922-4455



NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	DATE
1	11-30-2012					
2	11-30-2012					
3	11-30-2012					
4	11-30-2012					
5	11-30-2012					
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10	11-30-2012					

**Revisions During Construction**

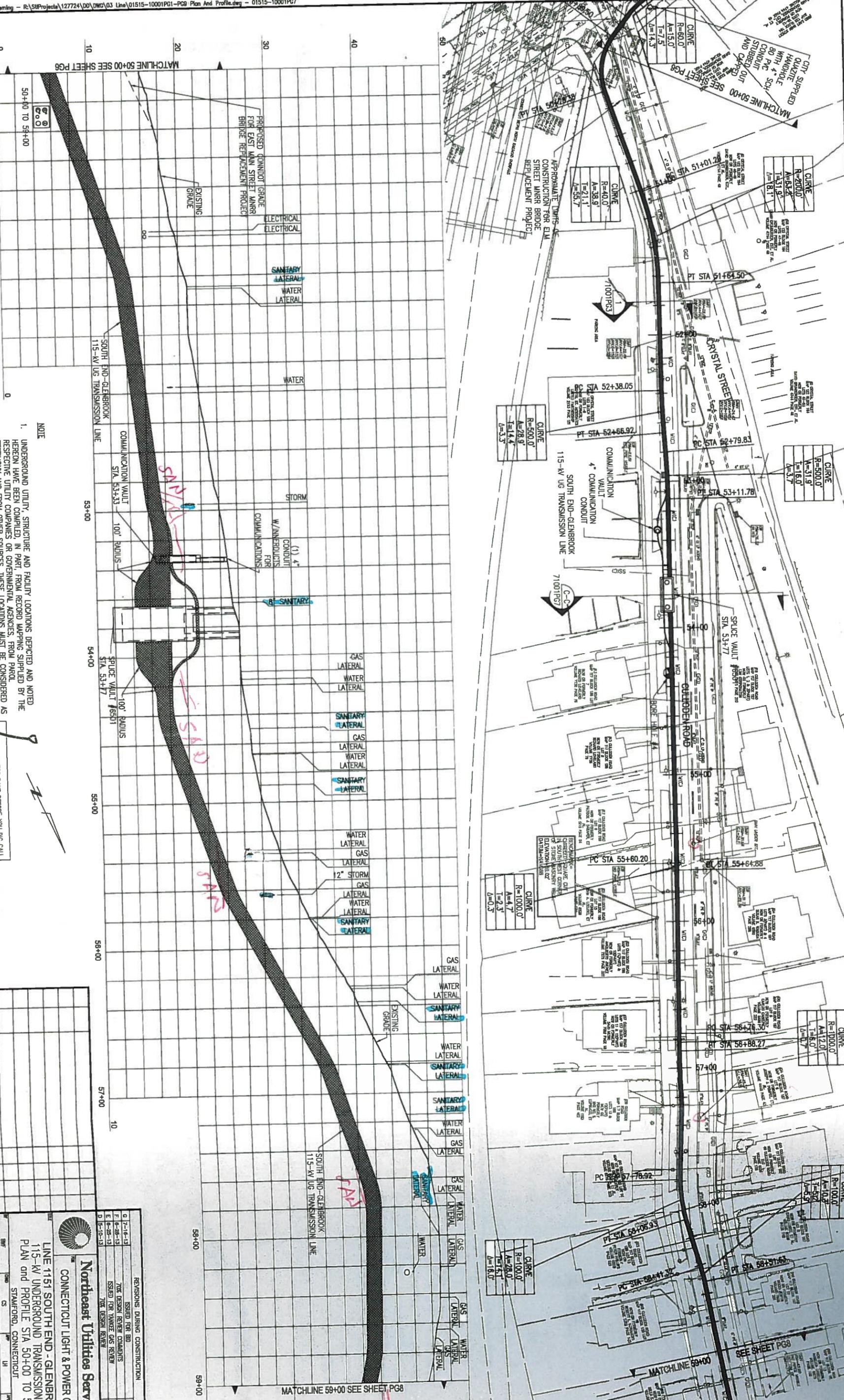
REV	DATE	DESCRIPTION	BY	CHK	APP
1	11-30-2012	ISSUED FOR BID			
2	11-30-2012	70% DESIGN REVIEW COMMENTS			
3	11-30-2012	ISSUED FOR VENDOR GAS REVIEW			
4	11-30-2012	70% DESIGN REVIEW			

**Northwest Utilities Service Co.**  
CONNECTICUT LIGHT & POWER COMPANY  
LINE 1151 SOUTH END - GLENBROOK  
115-NW UNDERGROUND TRANSMISSION LINE  
PLAN and PROFILE STA 32+00 TO 41+00  
STAMFORD, CONNECTICUT

23370P1  
01515-10001PG5



FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT



**NOTE**  
 1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES. FROM PUBLIC TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO NORTHEAST UTILITIES SERVICES COMPANY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1.800.922.4455

THIRD BUSINESS DAYS BEFORE YOU DIG CALL CONNECTICUT ONE CALL TOLL FREE 1-800-922-4455



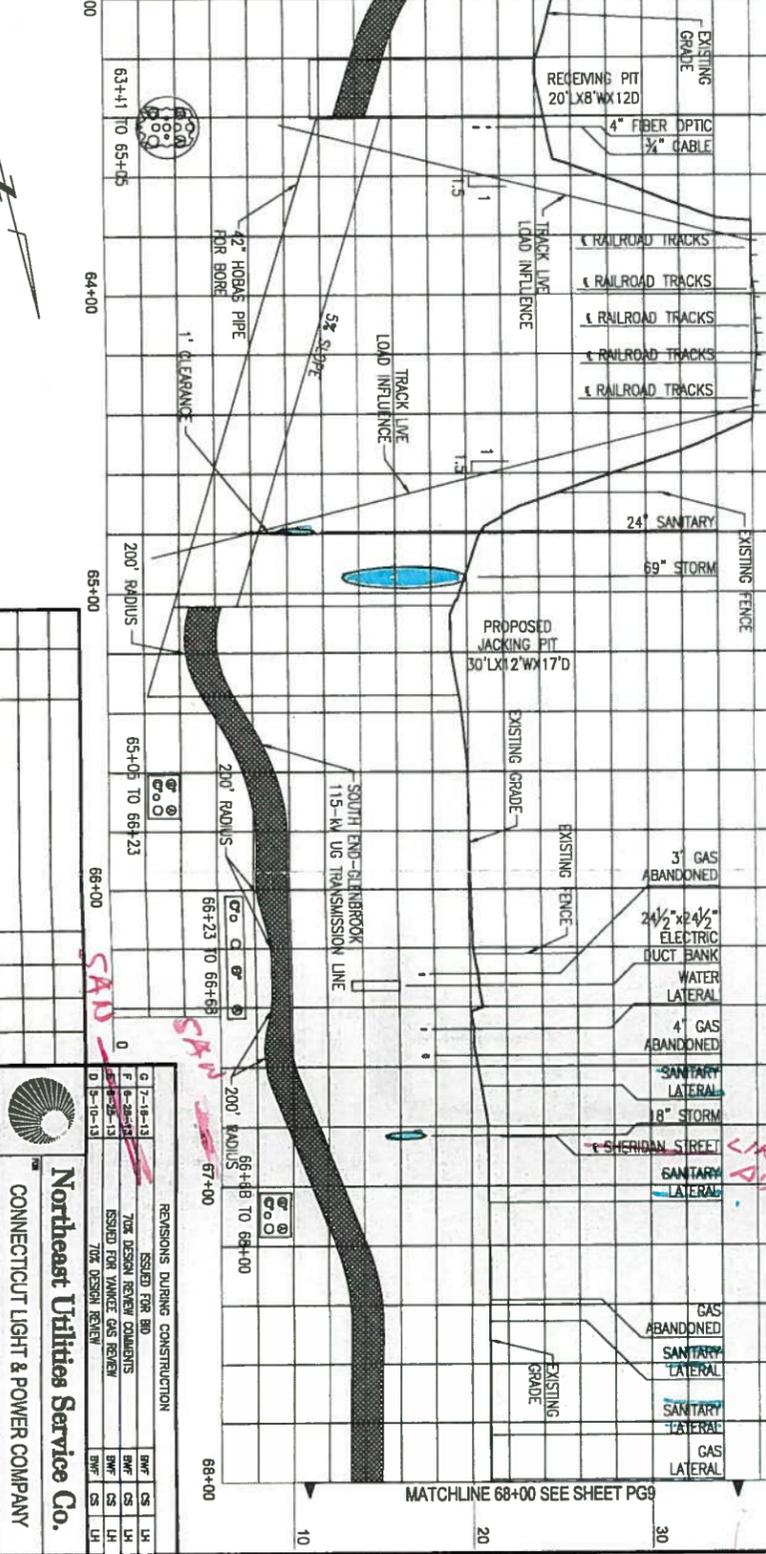
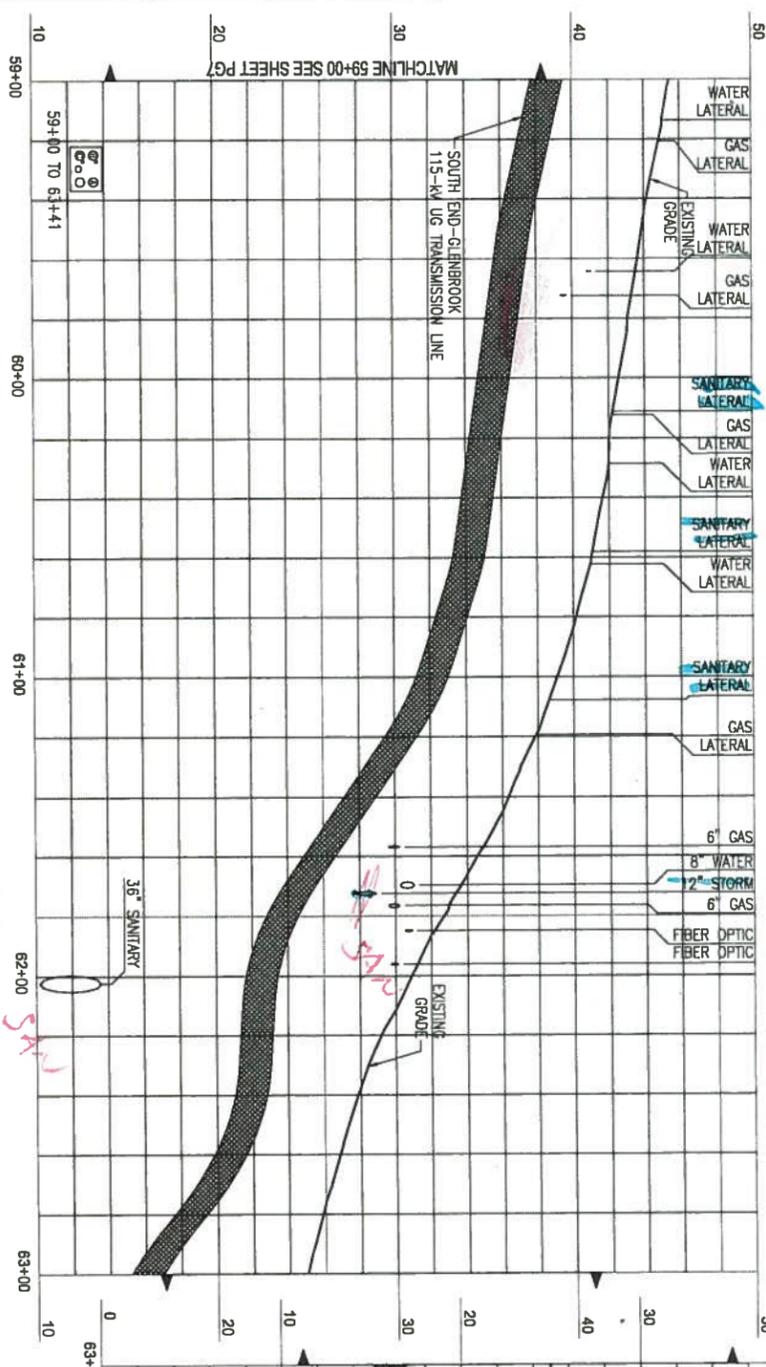
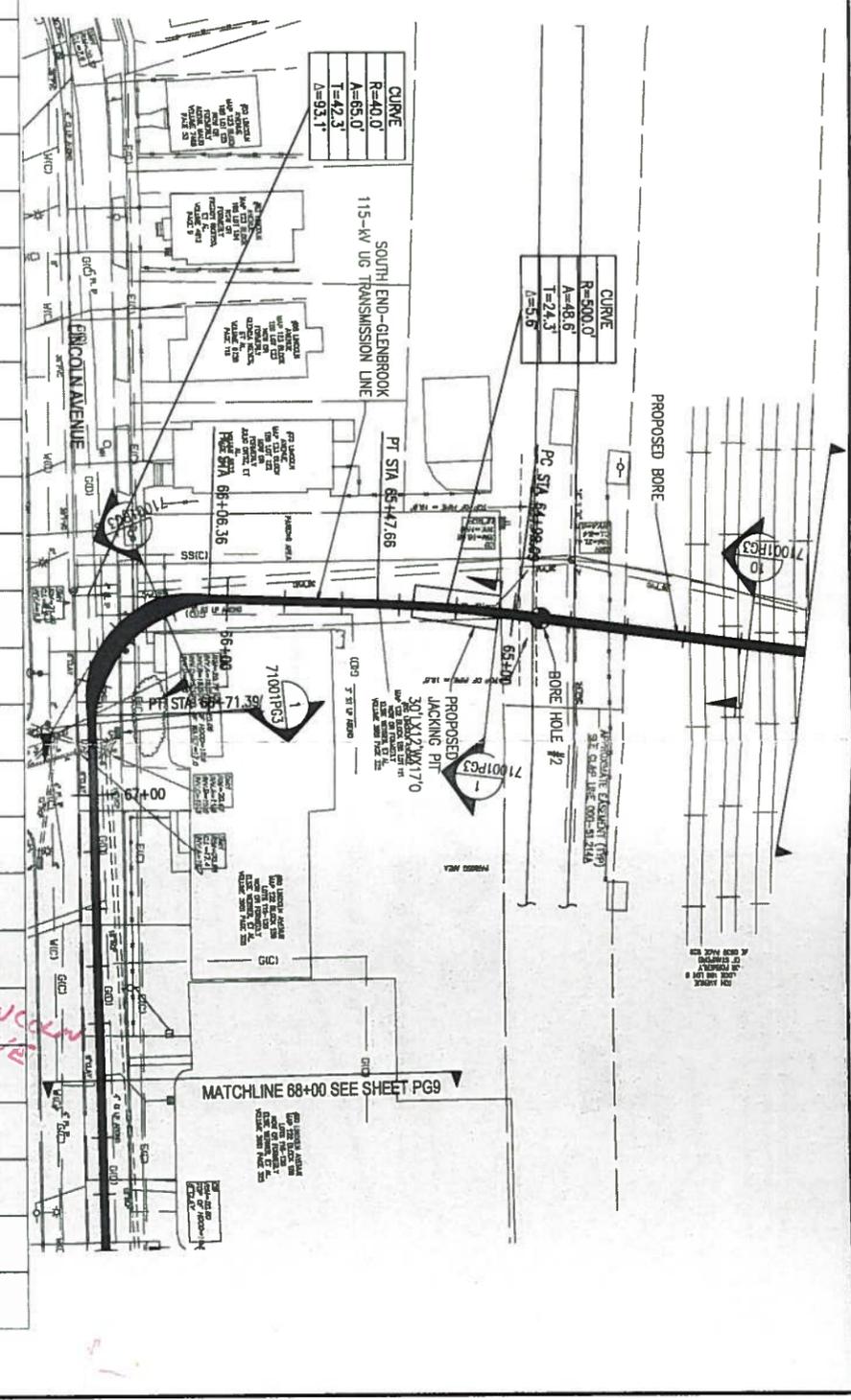
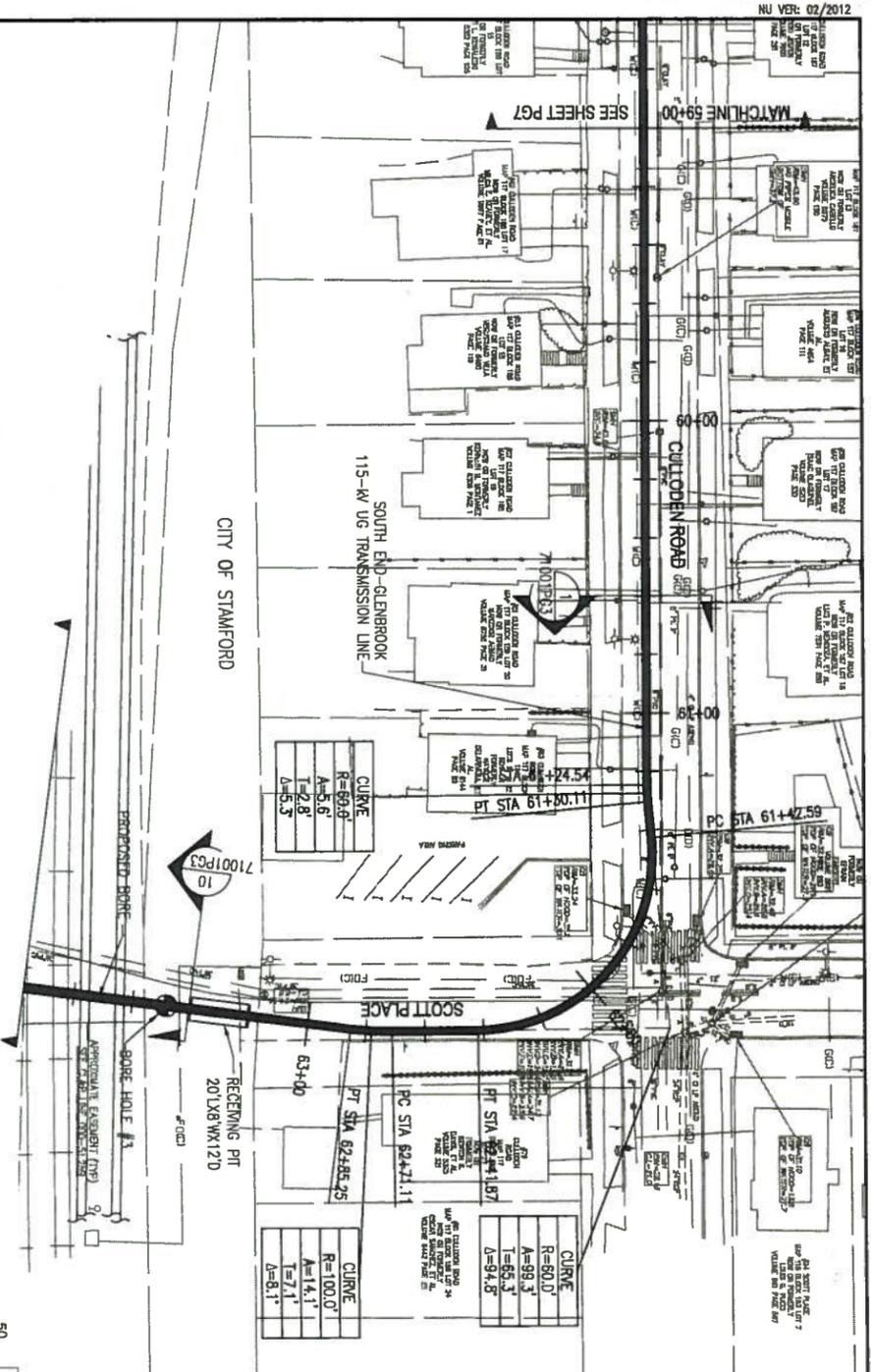
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2	ISSUED FOR VANCE GAS REVIEW	11-20-2012	BWF	CS	LI
3	70% DESIGN REVIEW	11-20-2012	BWF	CS	LI

**Northeast Utilities Service Co.**  
 CONNECTICUT LIGHT & POWER COMPANY

LINE 1151 SOUTH END - GLENBROOK  
 115-KV UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE STA 50+00 TO 59+00  
 STAMFORD, CONNECTICUT

23370P1  
 01515-10001PG7



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TWO BUSINESS DAYS BEFORE YOU DIG CALL CONNECTICUT ONE CALL TOLL FREE 1-800-922-4455



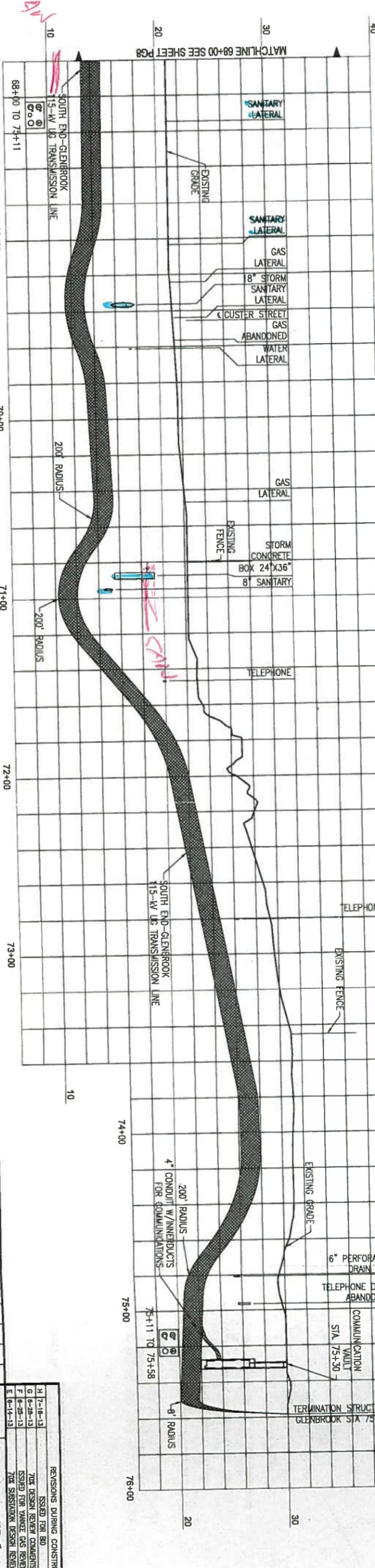
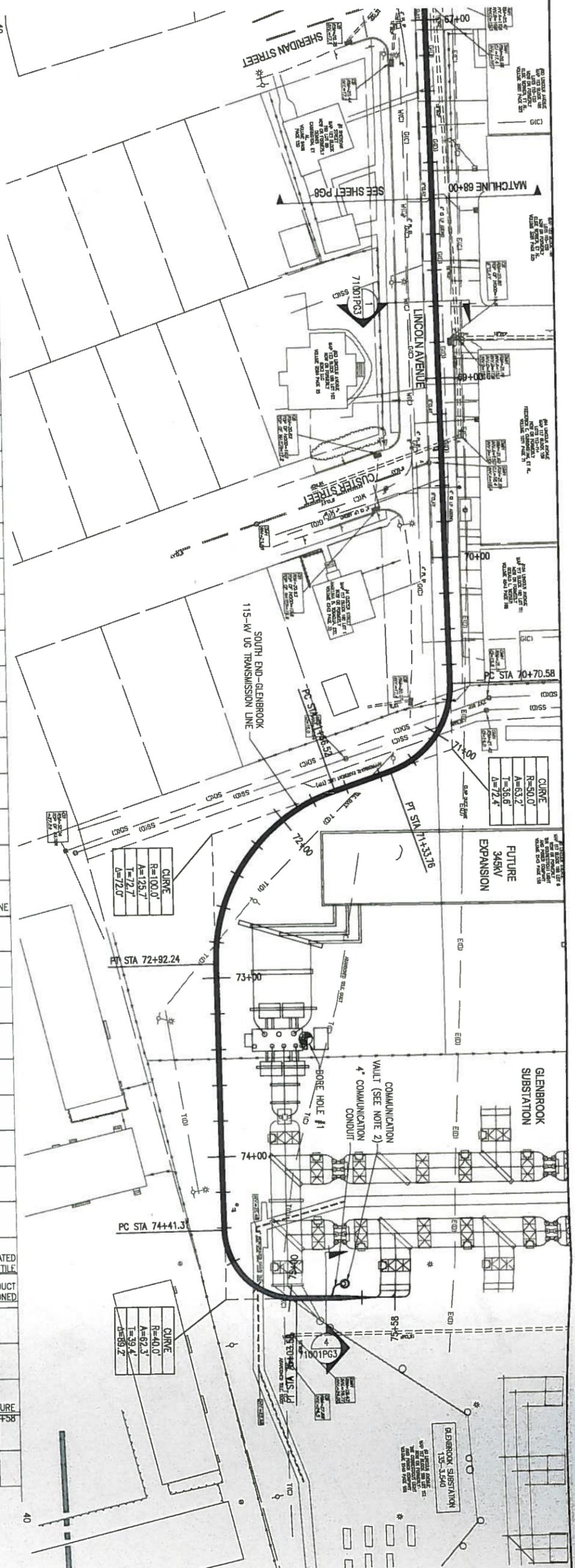
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9	11-30-2012					
10	11-30-2012					

**Revisions During Construction**

REV	DATE	DESCRIPTION	BY	CHK	APP
1	11-30-2012	ISSUED FOR BID			
2	11-30-2012	70% DESIGN REVIEW COMMENTS			
3	11-30-2012	ISSUED FOR VENDOR GAS REVIEW			
4	11-30-2012	70% DESIGN REVIEW			

**Northeast Utilities Service Co.**  
 CONNECTICUT LIGHT & POWER COMPANY  
 LINE 1151 SOUTH END - GLENBROOK  
 115-KV UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE STA 59+00 TO 68+00  
 STAMFORD, CONNECTICUT

23370P1  
 01515-10001PG8



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2. LEAVE 1400' OF FIBER OPTIC CABLE COILED IN COMMUNICATION VAULT. TO BE INSTALLED BY OTHERS.

FOR CURRENT MUSCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT



TWO BUSINESS DAYS BEFORE YOU DIG CALL  
CONNECTICUT ONE CALL  
TOLL FREE  
1-800-922-4455



NO.	DATE	AS BUILT REVISIONS	BY	CHEK	APP	APP

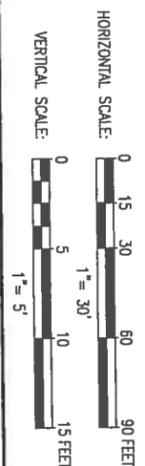
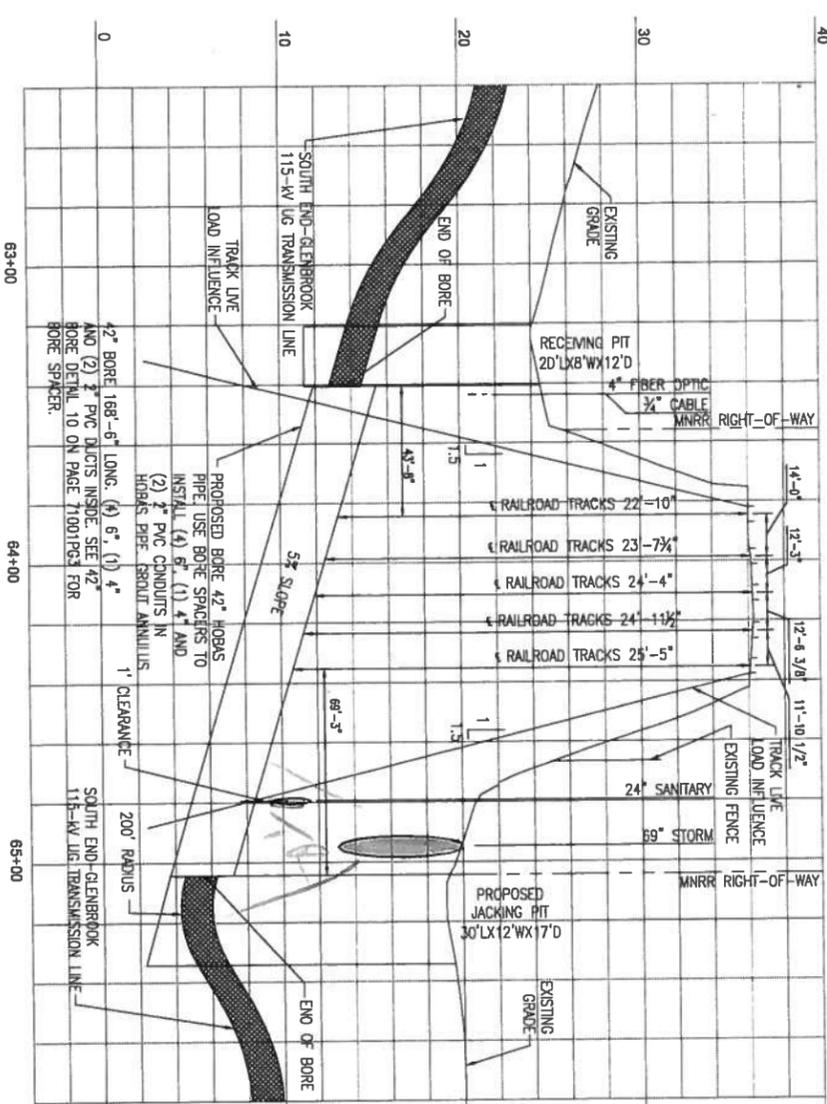
REVISIONS DURING CONSTRUCTION					
14	7-16-13	ISSUED FOR BID	BWF	CS	LH
13	6-26-13	70% DESIGN REVIEW COMMENTS	BWF	CS	LH
12	6-25-13	ISSUED FOR VANCE GAS REVIEW	BWF	CS	LH
11	6-14-13	70% SUBMITTAL DESIGN REVIEW	BWF	CS	LH

**Northeast Utilities Service Co.**  
CONNECTICUT LIGHT & POWER COMPANY  
LINE 1151 SOUTH END - GLENBROOK  
115-KV UNDERGROUND TRANSMISSION LINE  
PLAN and PROFILE STA 68+00 TO 75+58  
STAFFORD, CONNECTICUT

NO.	DATE	BY	CHK	APP	APP
1	11-30-2012	BWF	CS	LH	
2	1-30-2012	BWF	CS	LH	
3	2-1-12	BWF	CS	LH	

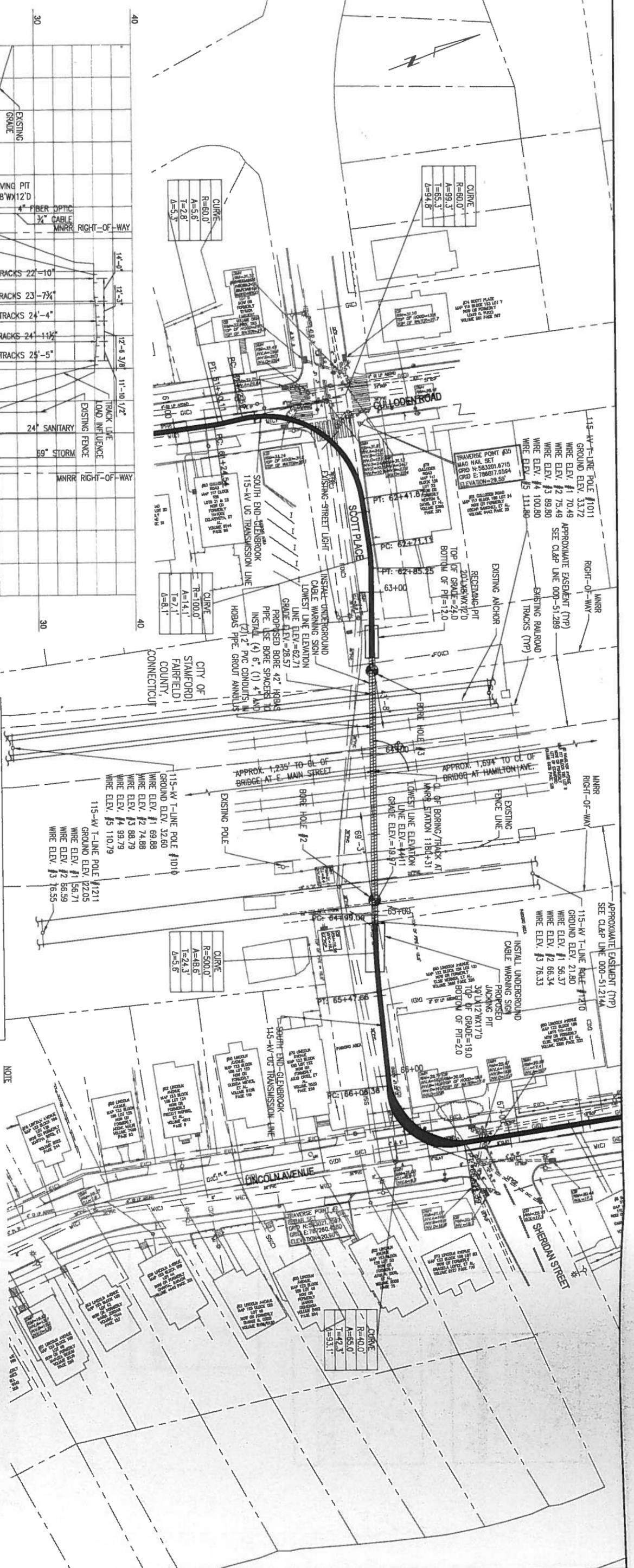
23370P1  
01515-10001PG9

FOR CURRENT NISCO PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT



CONTENTS TO BE HANDED	CARRIER PIPE	CASING PIPE
NORMAL OPERATING PRESSURE	0 PSI	0 PSI
NOMINAL SIZE OF PIPE	(4)-6" (1)-4" (2)-2"	42"
O. S. DIAMETER	6.625"/4.500"/2.375"	44.5"
I. S. DIAMETER	6.065"/4.026"/2.067"	40.3"
WALL THICKNESS	.280"/.237"/.154"	1.93"
WEIGHT PER FOOT	4.12/2.30/1.59/lb/ft	255 lbs
MATERIAL	PVC	FIBERGLASS REINFORCED POLYMER MORTAR
PROCESS OF MANUFACTURE	EXTRUDED	CENTRICALLY CAST
SPECIFICATION	NECA TC 2	ASTM D3282
GRADE OR CLASS	SC# 40	0 PSI
TEST PRESSURE	0 PSI	0 PSI
TYPE OF JOINT	GLUED	BELL AND SPIGOT WITH SEALING GASKET
TYPE OF COATING	N/A	N/A
DETAILS OF CATHODIC PROTECTION	N/A	N/A
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	HEAT SHRINK	CONCRETE PLUG
METHOD OF INSTALLATION	PULLING	BORE

THU BUSINESS DAYS BEFORE YOU DIG CALL CONNECTICUT ONE CALL TOLL FREE 1-800-922-4455



NOTE  
1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO NORTHEAST UTILITIES SERVICES COMPANY. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1.800.922.4455

2. CONTRACTOR TO FINISH AND INSTALL WARNING SIGNS ON THE EDGE OF RIGHT-OF-WAY OVER THE CENTERLINE OF THE PIPE. THE MATERIAL, SIZE OF LETTERING AND THE INSTALLATION METHOD OF THE SIGN SHALL BE AS APPROVED BY METRO-NORTH RAILROAD. SIGN SHALL SHOW THE FOLLOWING:  
A. NAME AND ADDRESS OF OWNER  
B. COMMENTS OF PIPE  
C. PRESSURE OF PIPE  
D. DEPTH OF PIPE BELOW GRADE AT POINT OF SIGN  
E. EMERGENCY TELEPHONE IN EVENT OF PIPE RUPTURE

3. CONTRACTOR TO ENSURE JACKING LOADS RECOMMENDED BY HOBAS ARE NOT EXCEEDED

**Revisions During Construction**

NO.	DATE	BY	CHK'D	APP'D
1	05-10-2013	CS	LI	MP
2	05-10-2013	CS	LI	MP
3	05-10-2013	CS	LI	MP
4	05-10-2013	CS	LI	MP

**Northeast Utilities Service Co.**  
CONNECTICUT LIGHT & POWER COMPANY  
LINE 1151 SOUTH END - GLENBROOK  
115-KV UNDERGROUND TRANSMISSION LINE  
BORE RAILROAD APPLICATION  
STAMFORD, CONNECTICUT

23370P-1  
01515-10001PG10A

