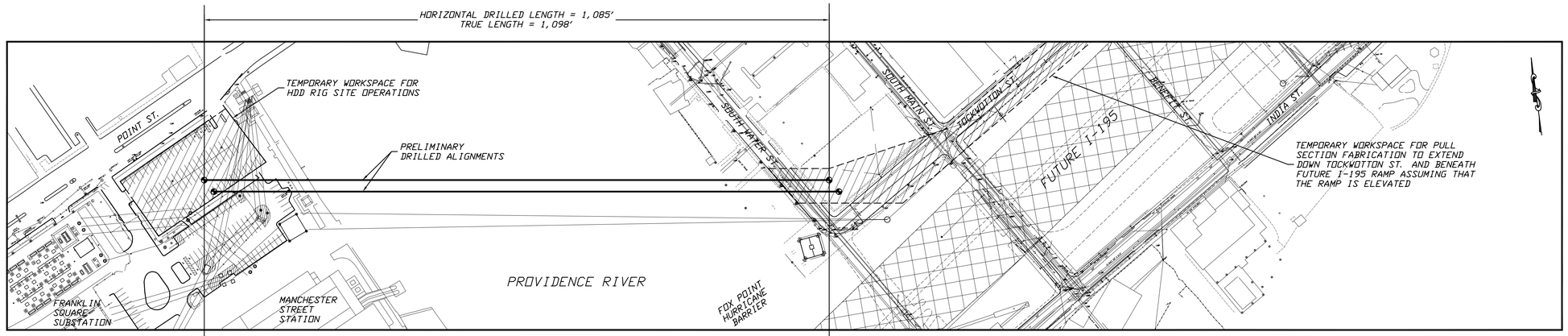
c:\0-employees\suem\e183 relocation.dwg

Vanasse Hangen Brustlin, Inc.

E183 Relocation
Aerial Photograph Depicting
Proposed Underground Alignment
October 18, 2013

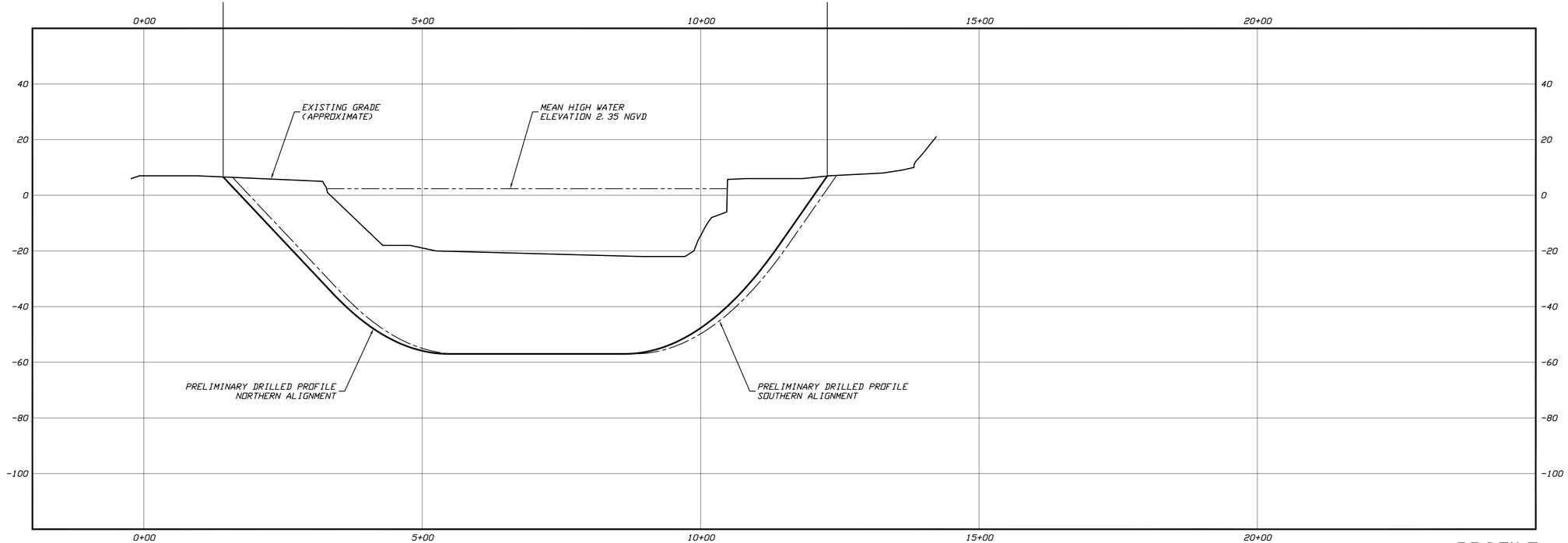


PLAN

SCALE: 1"=100'

ENTRY POINT @ 12"
STA. 1+42.43
ELEV. 6.59

EXIT POINT @ 16"
STA. 12+27.57
ELEV. 6.94



PROFILE

SCALE: 1"=100' HORIZONTAL
1"= 20' VERTICAL

GENERAL LEGEND

DRILLED PATH ENTRY/EXIT POINT

PRELIMINARY PLAN AND PROFILE - HDD ALIGNMENT OPTION 1
NARRAGANSETT ELECTRIC E-183 RELOCATION PROJECT
PROPOSED PROVIDENCE RIVER CABLE CROSSING
BY HORIZONTAL DIRECTIONAL DRILLING

LOCATION: PROVIDENCE, RHODE ISLAND					
DRAWN	DATE	CHECKED	APPROVED	SCALE	DRAWING LABEL	REVISION
JSP	06/20/06			AS SHOWN	PROV_OPTION1	1

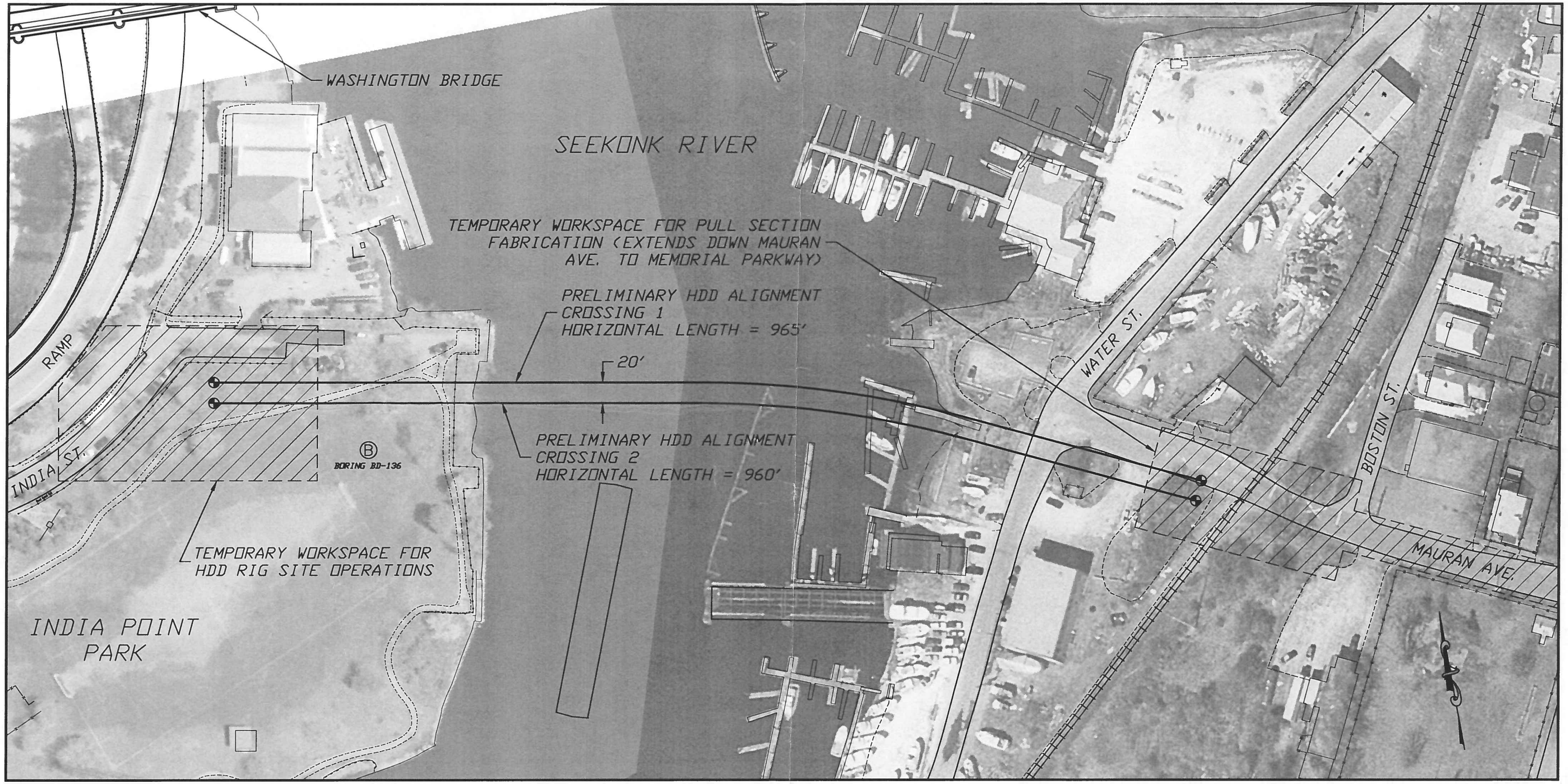
NO.	DATE	REVISION DESCRIPTION	BY	CHKD	APP.
1	07/24/06	REVISE DRILLED ALIGNMENTS TO ACCOMMODATE MANHOLES	JSP		

NOT FOR CONSTRUCTION

John D. Hair, P.E.
Consulting Engineer
2121 South Columbia Avenue
Suite 101
Tulsa, Oklahoma 74114

PROJECT NO.
PDC\0409

SHEET NO.
2



PLAN

SCALE: 1"=100'

LEGEND

- PRELIMINARY HDD ENDPOINT
- (B) APPROXIMATE LOCATION OF EXISTING BORING

John D. Hair, P.E.
Consulting Engineer

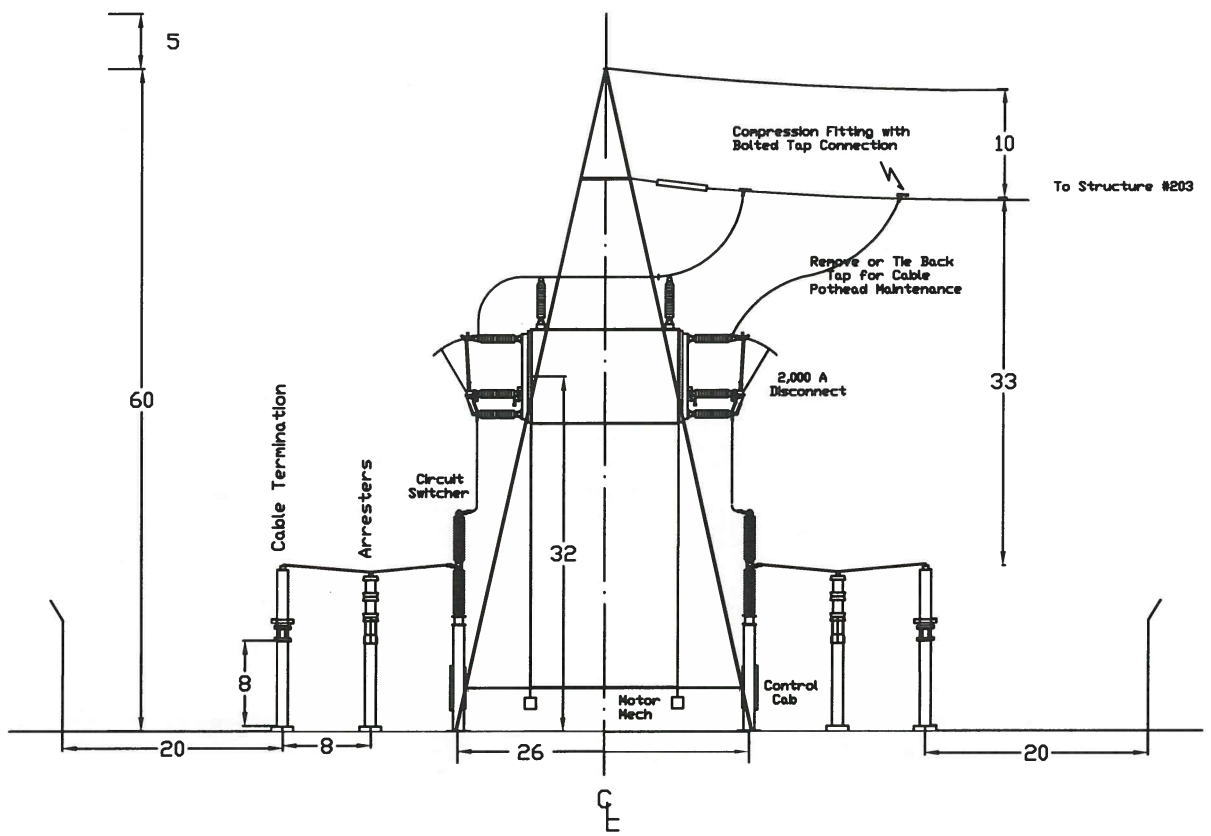
2121 South Columbia Avenue
Suite 101
Tulsa, Oklahoma 74114

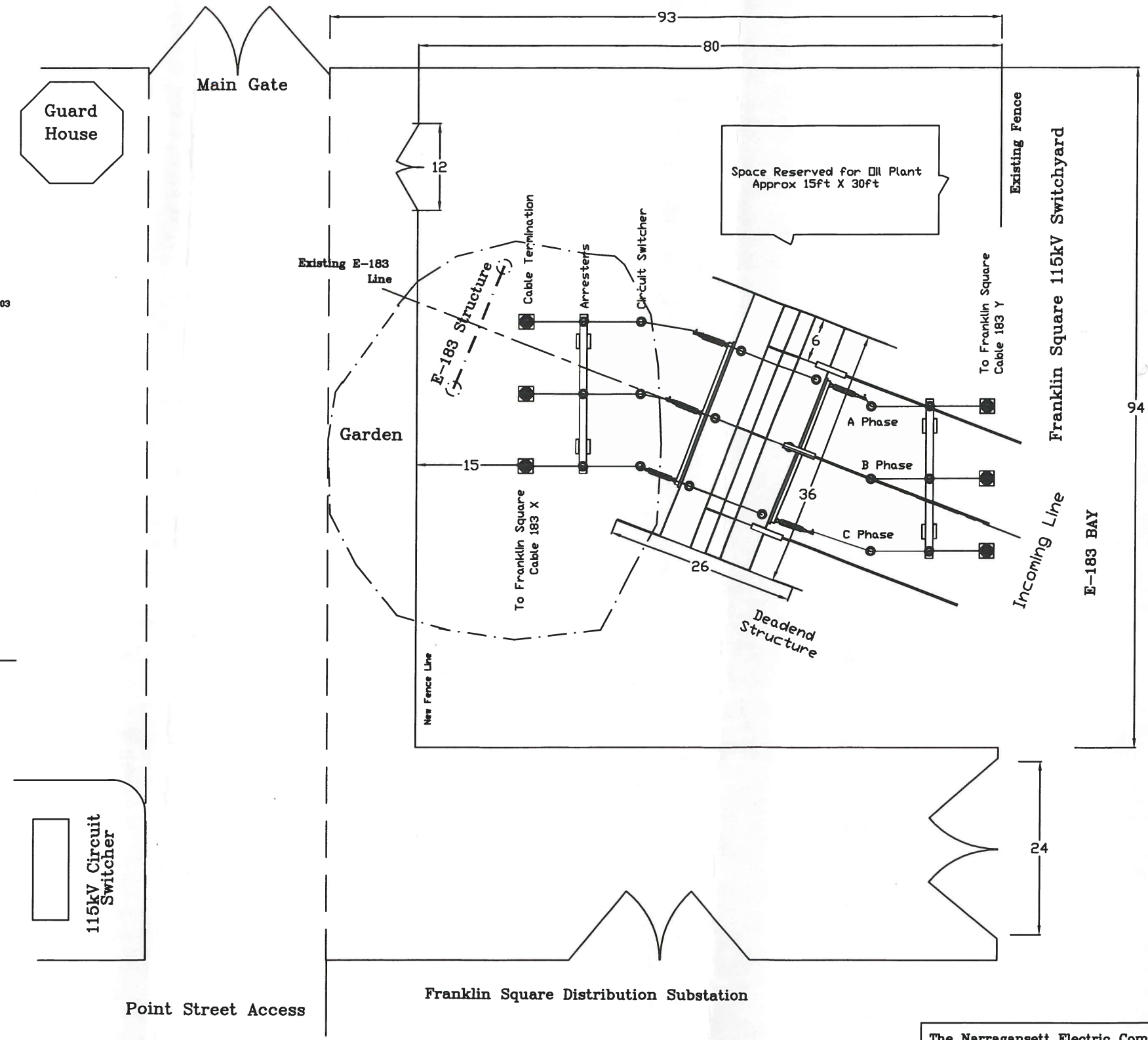
NO.	DATE	REVISION DESCRIPTION	BY	CHK'D	APP.

PRELIMINARY PLAN
NARRAGANSETT ELECTRIC E-183 RELOCATION
SEEKONK RIVER CABLE CROSSING BY
HORIZONTAL DIRECTIONAL DRILLING

LOCATION: PROVIDENCE AND EAST PROVIDENCE, RHODE ISLAND

DRAWN	DATE	CHECKED	APPROVED	SCALE	DRAWING LABEL	REVISION
JSP	11/18/04			AS SHOWN	SEEKONK_PLAN	0





Notes:

1. All Dimensions are in Feet
2. Protective relays, dc and ac control power, RTU connections, etc. will be supplied from or connected to the Franklin Square control room.
3. The new deadend structure is angled to intercept the existing substation connection in a similar manner to the present overhead transmission line. The angle will also permit the structure to be installed and the E-183 overhead to remain in service using jumpers, while the remaining equipment and cables are installed.

Sheet 2 of 2

REV.	DATE	DESCRIPTION	BY	CHK	DES SUP.	APP.	APP.	REV.	DATE	DESCRIPTION	BY	CHK	DES SUP.	APP.	APP.
7								3							
6								2							
5								1							
4								0	3/24 2004	ORIGINAL ISSUE	RAJ				

The Narragansett Electric Company
Providence, Rhode Island

E-183 115kV Transmission Line
Providence & East Providence RI

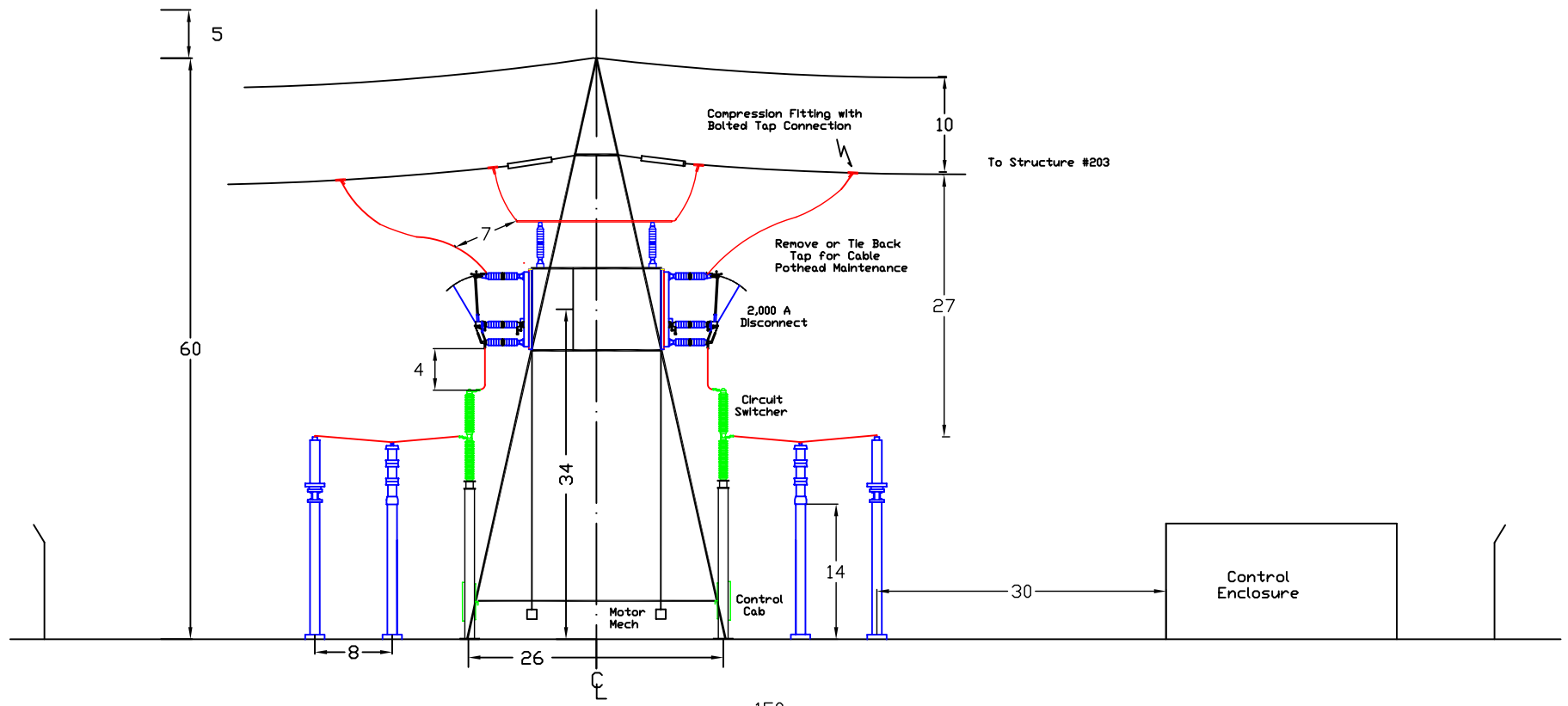
Underground Alternative
Franklin Square Transition Station
EFSB Dkt SB-2003-01

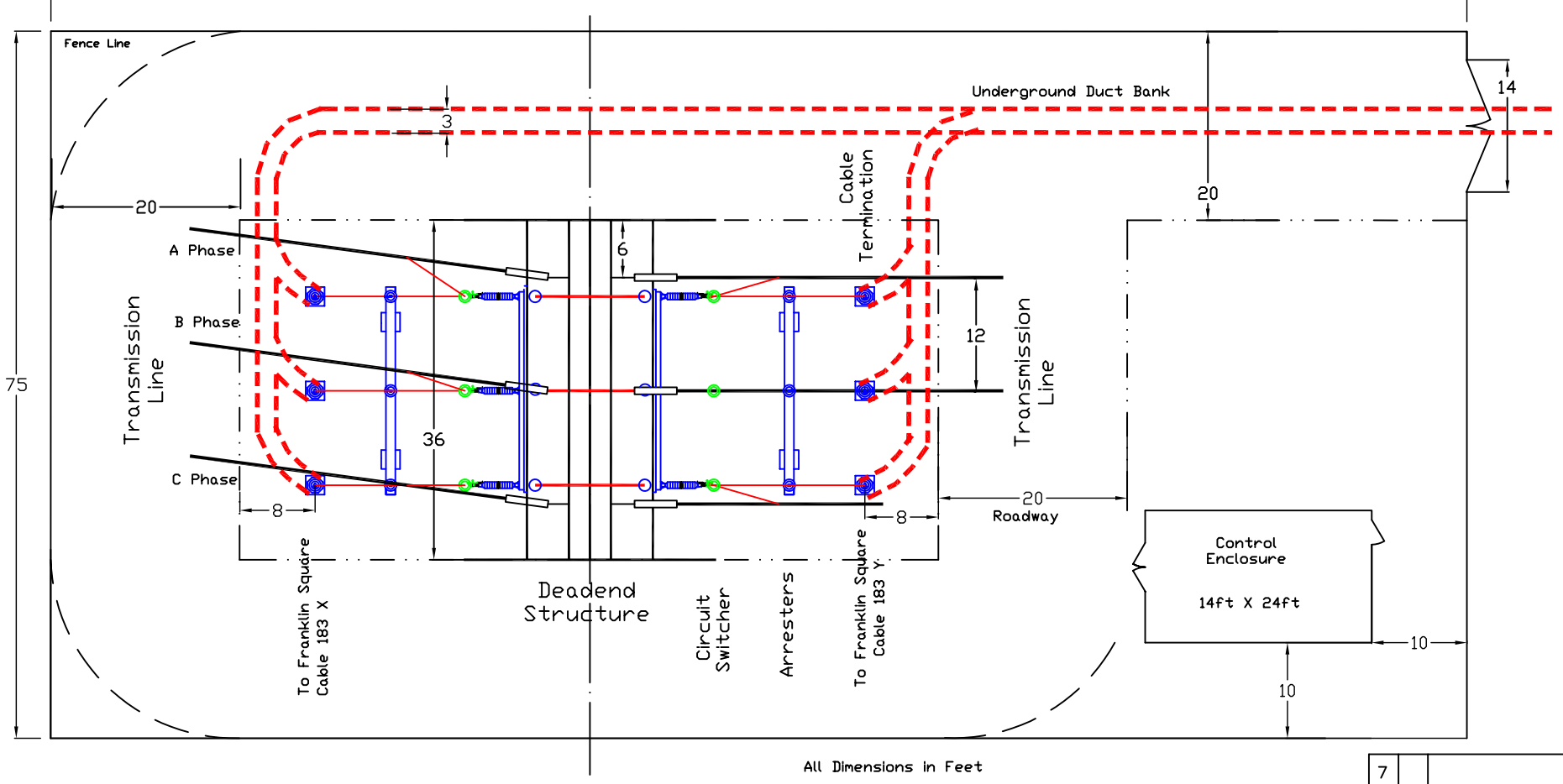
SCALE:	ATTACHMENT NO.	REV.
	DMC - xx	A

INCHES

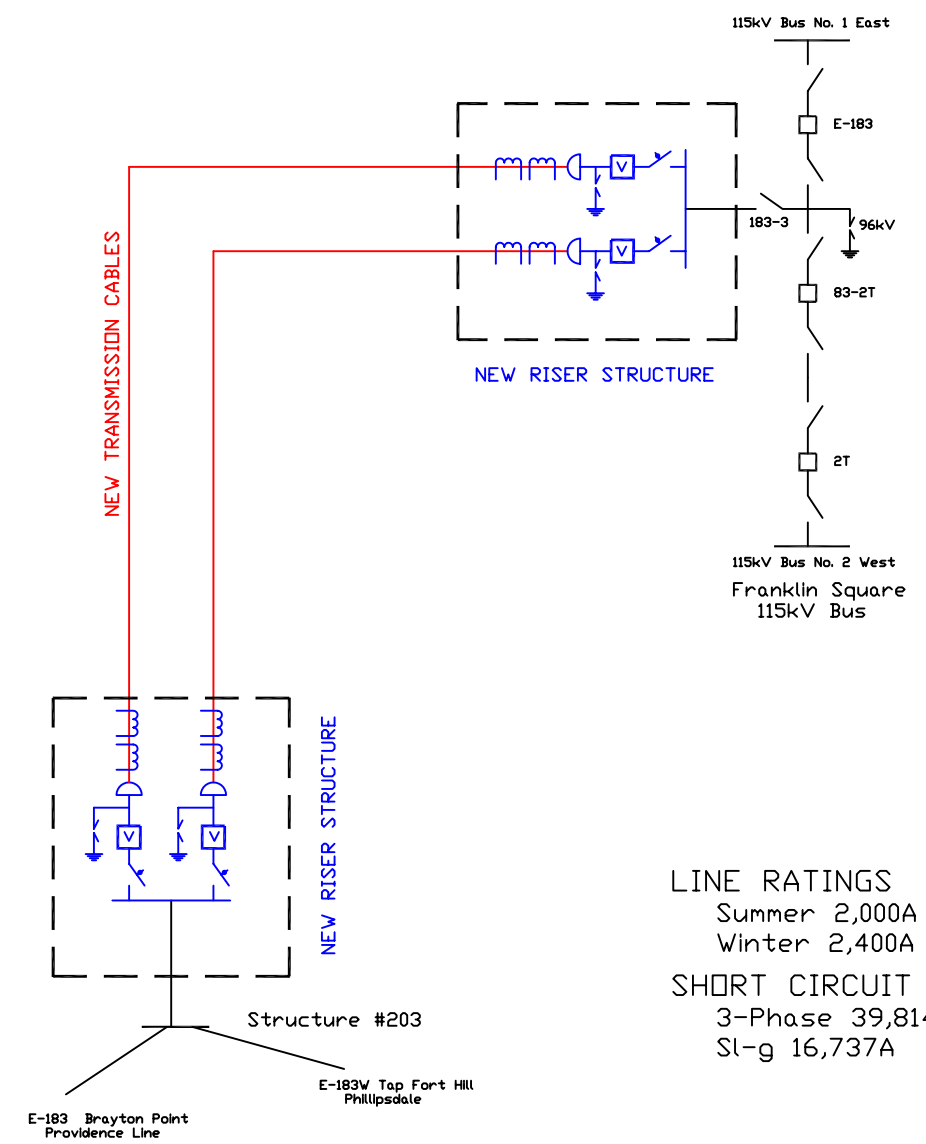
ANSI D 22" X 34"

DMC - xx





All Dimensions in Feet



LINE RATINGS
Summer 2,000A
Winter 2,400A

SHORT CIRCUIT DUTY
3-Phase 39,814A
Sl-g 16,737A

Sheet 1 of 2

REV.	DATE	DESCRIPTION	BY	CHK	DES SUP.	APP.	APP.
7							
6							
5							
4	4/4 2005	ADD THRU CONN MODIFIED CONTROL ENCL	RAJ				

REV.	DATE	DESCRIPTION	BY	CHK	DES SUP.	APP.	APP.
3	3/18 2005	INCREASED CLEARANCE HEIGHT TO 14 FT	RAJ				
2	3/4 2005	MODIFIED CONTROL ENCLOSURE	RAJ				
1	2/28 2005	MODIFIED STATION LAYOUT & DIMS	RAJ				
0	3/24 2004	ORIGINAL ISSUE	RAJ				

The Narragansett Electric Company
Providence, Rhode Island

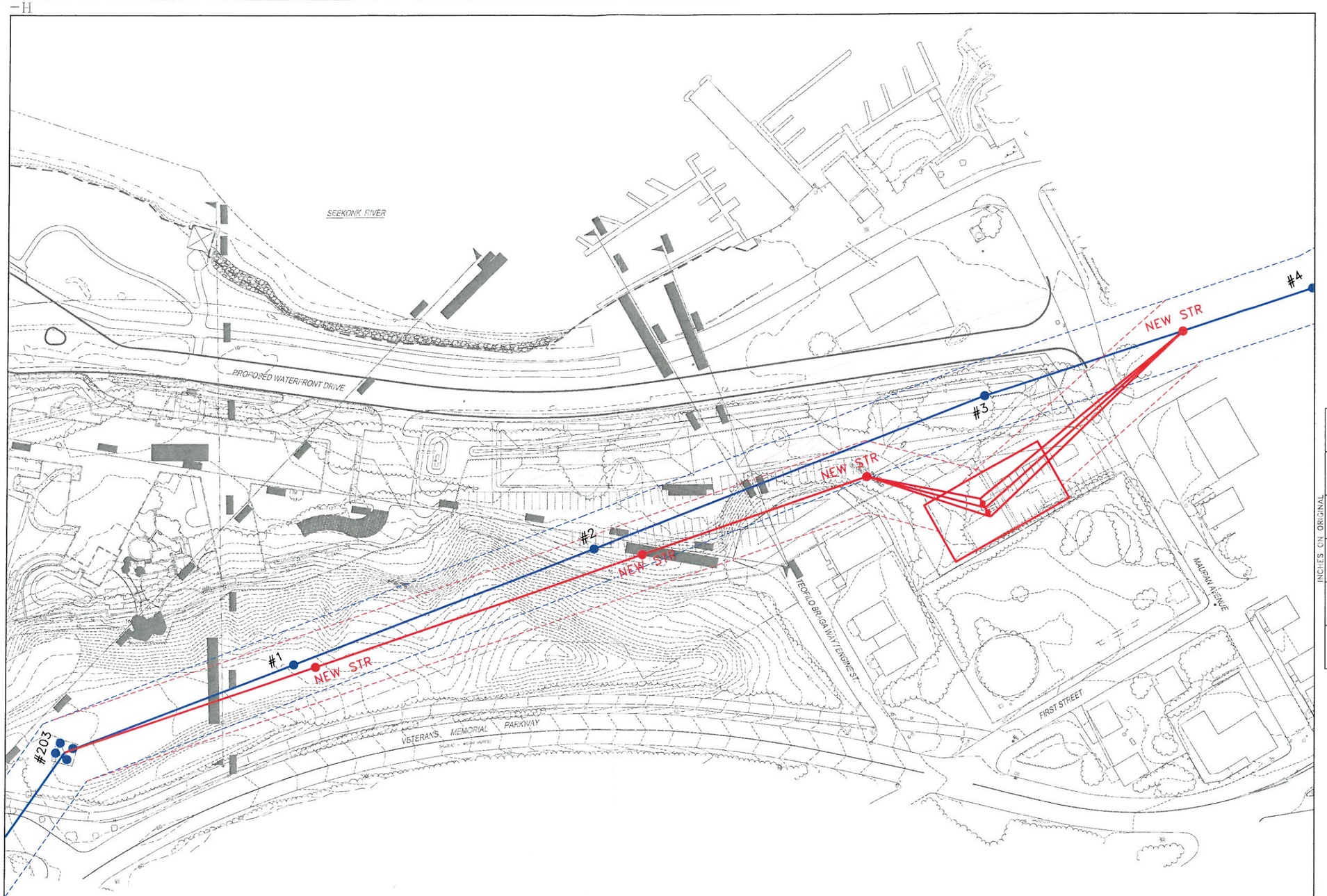
E-183 115kV Transmission Line
Providence & East Providence RI

Underground Alternative
Tockwotten Transition Station
EFSB Dkt SB-2003-01

SCALE:	ATTACHMENT NO.	REV.
	DMC - 2	4

INCHES

ANSI D 22" X 34"



PERMITTING PLANS - NOT FOR CONSTRUCTION

0 50 100
SCALE IN FEET

nationalgrid

SCALE: NONE DATE:

INCHES ON ORIGINAL

REVISIONS

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ORIGINAL

DATE	
DESIGNED	
CHECKED	
SUPERVISOR	
REGISTERED	
APPROVED	
REVIEWED	
APPROVED	
APPROVED	