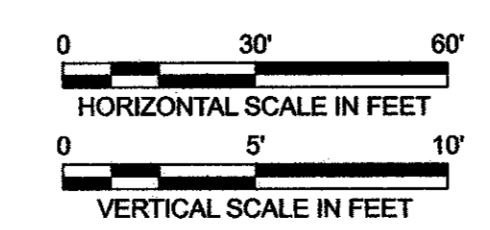
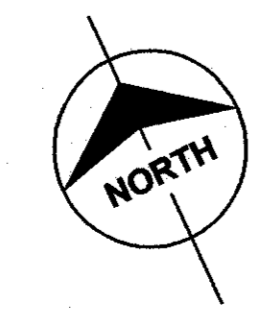
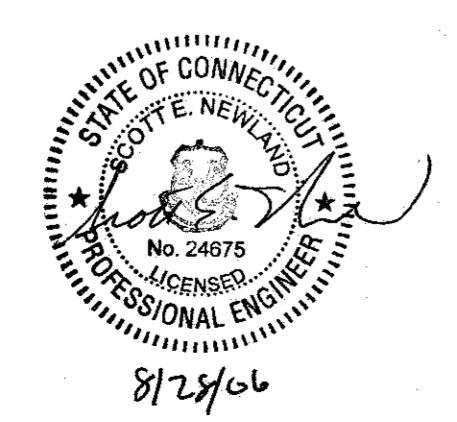
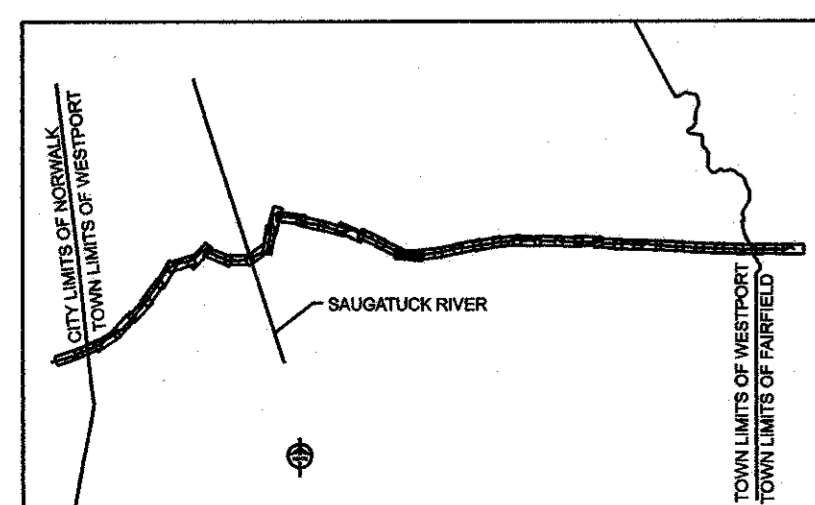



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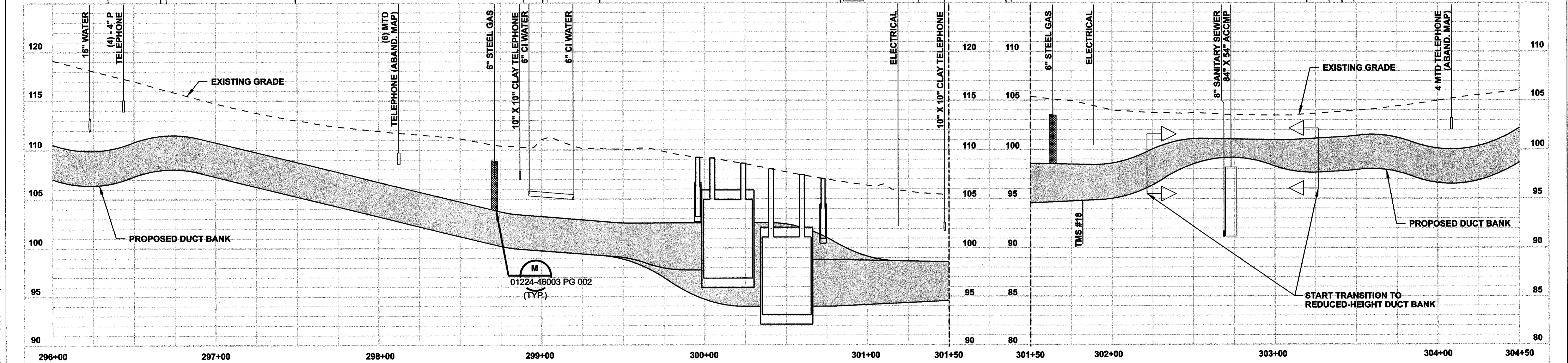
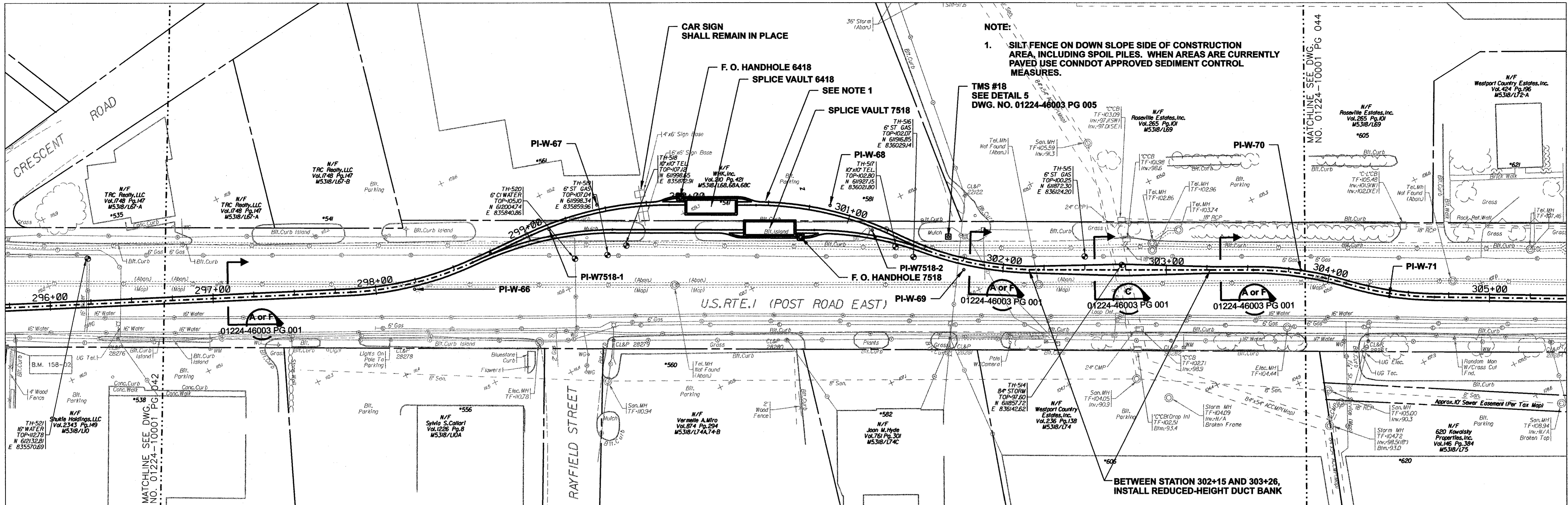
NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE: MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 288+50 to 297+50

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 296+00 to 304+00

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-10001 PG 043

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

date 11/10/05

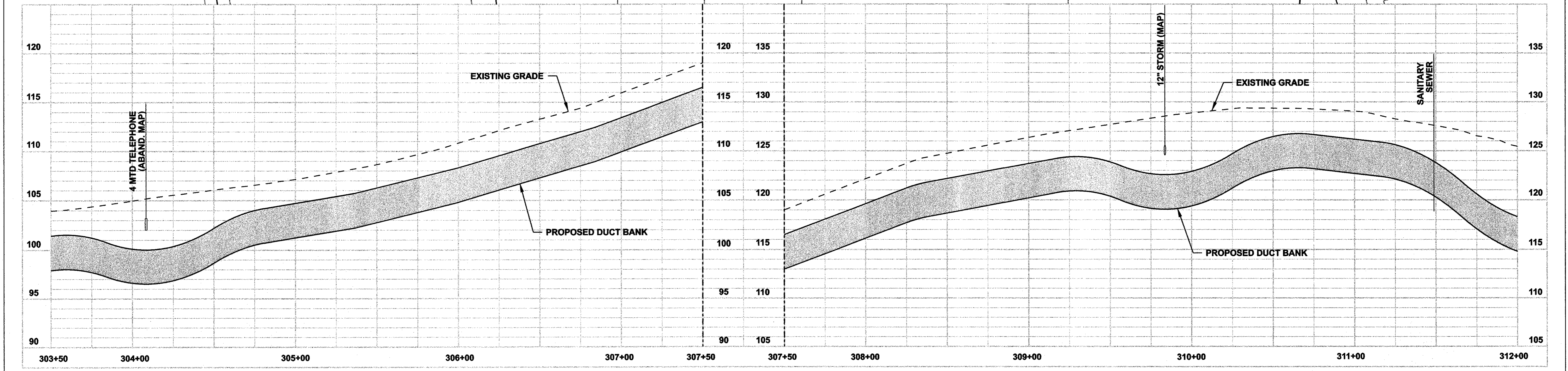
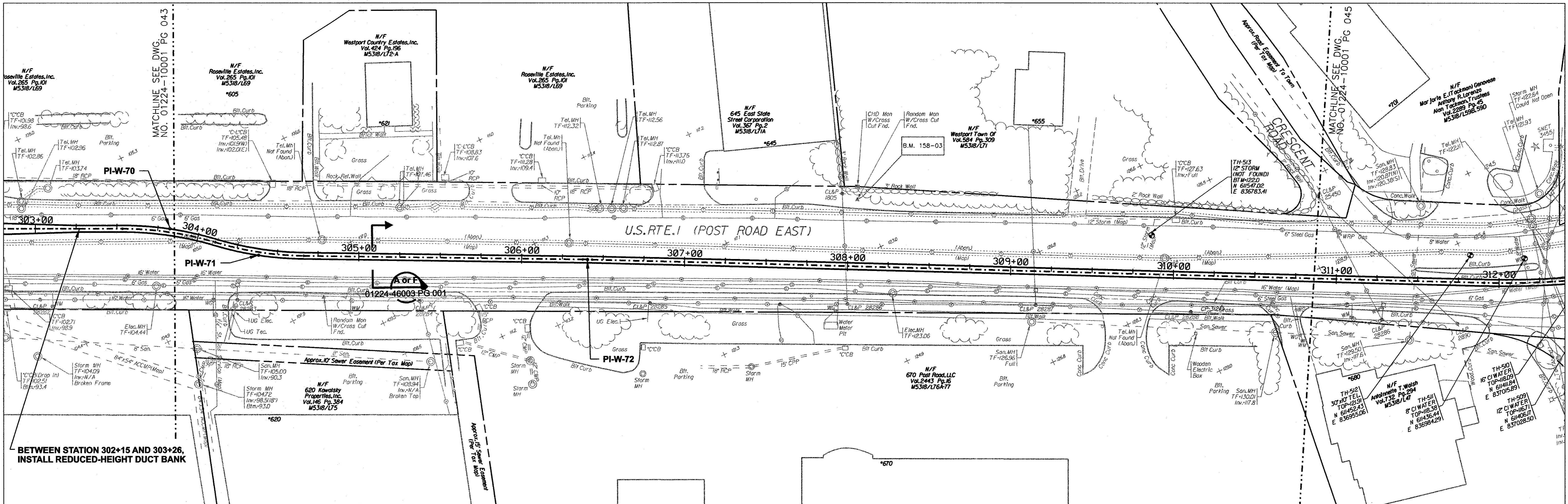
designed C. COURTRIGHT

detailed L. ROWSE

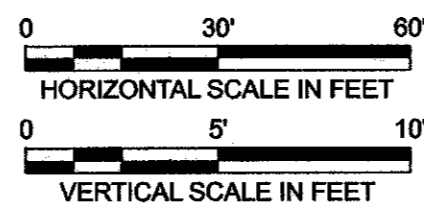
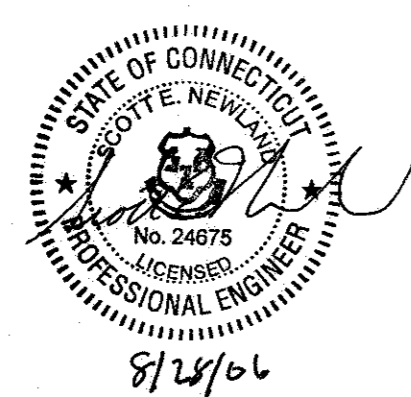
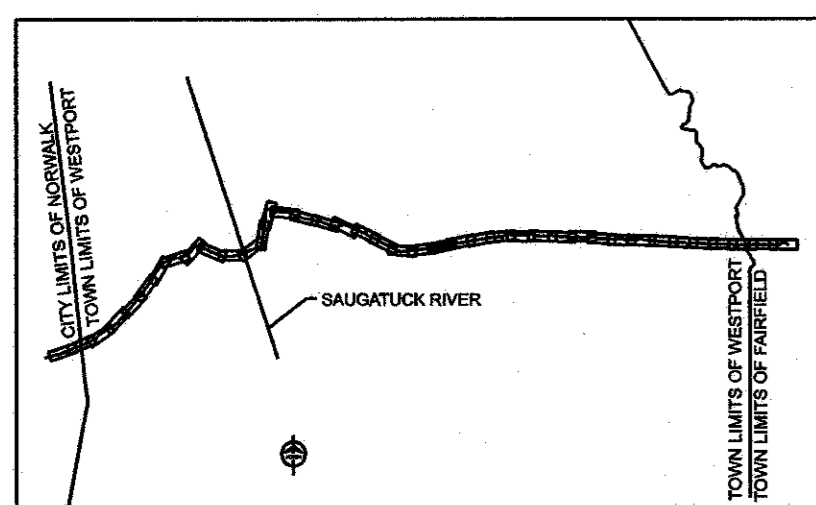
checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

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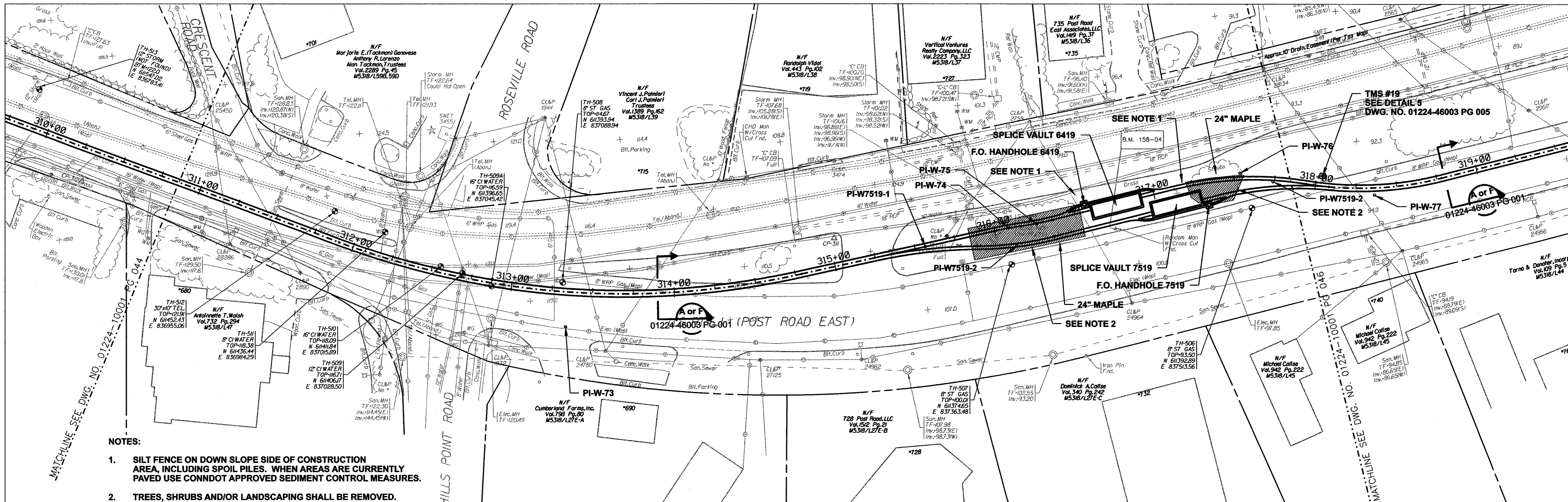
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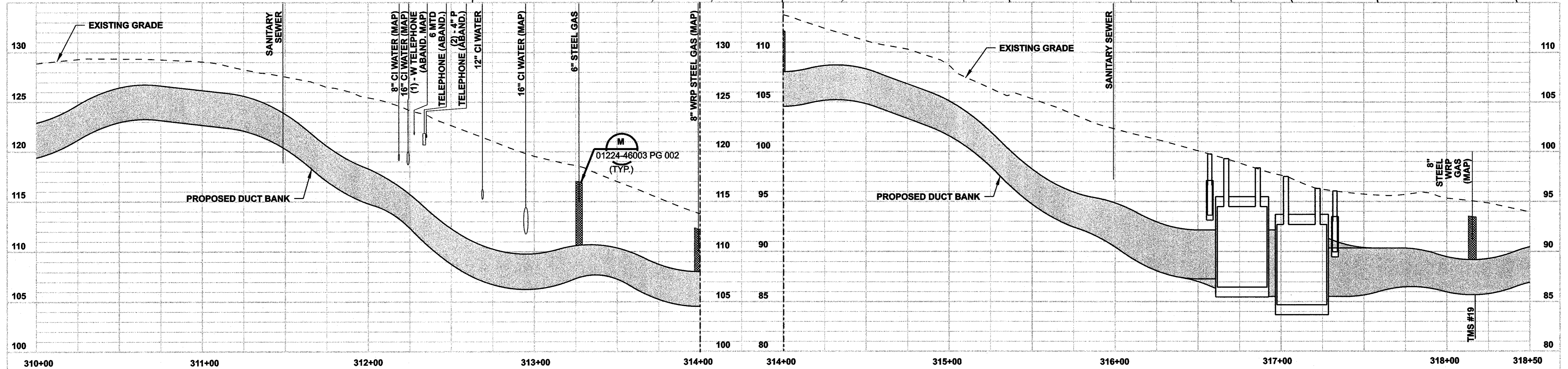
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date	11/10/05
designed	C. COURTRIGHT
detailed	L. ROWSE
checked	S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

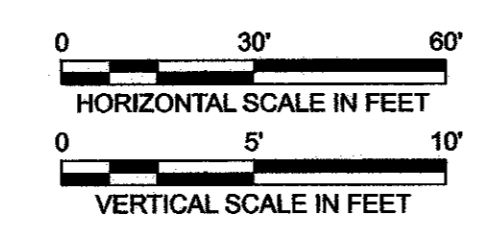
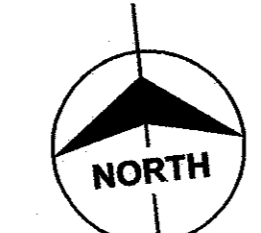
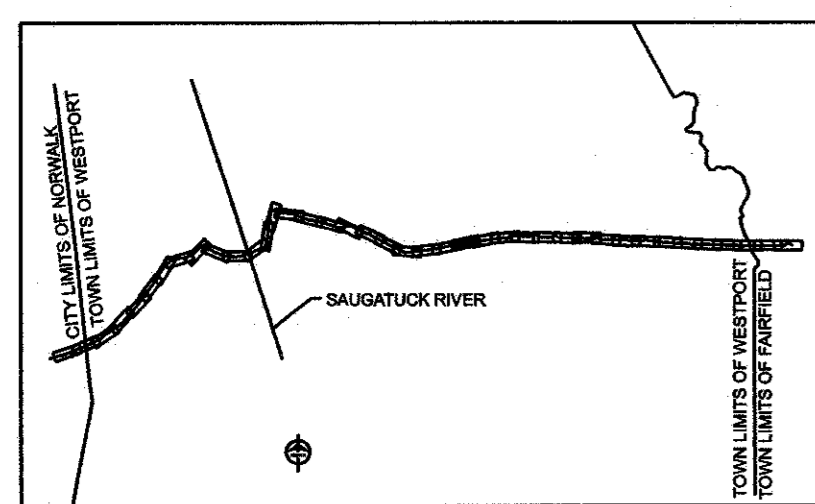
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FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT			
TOWN OF WESTPORT PLAN AND PROFILE Sta. 303+50 to 312+00			
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D		DWG. NO. 01224-10001 PG 044



- NOTES:**
1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.
 2. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.



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designed C. COURTRIGHT checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

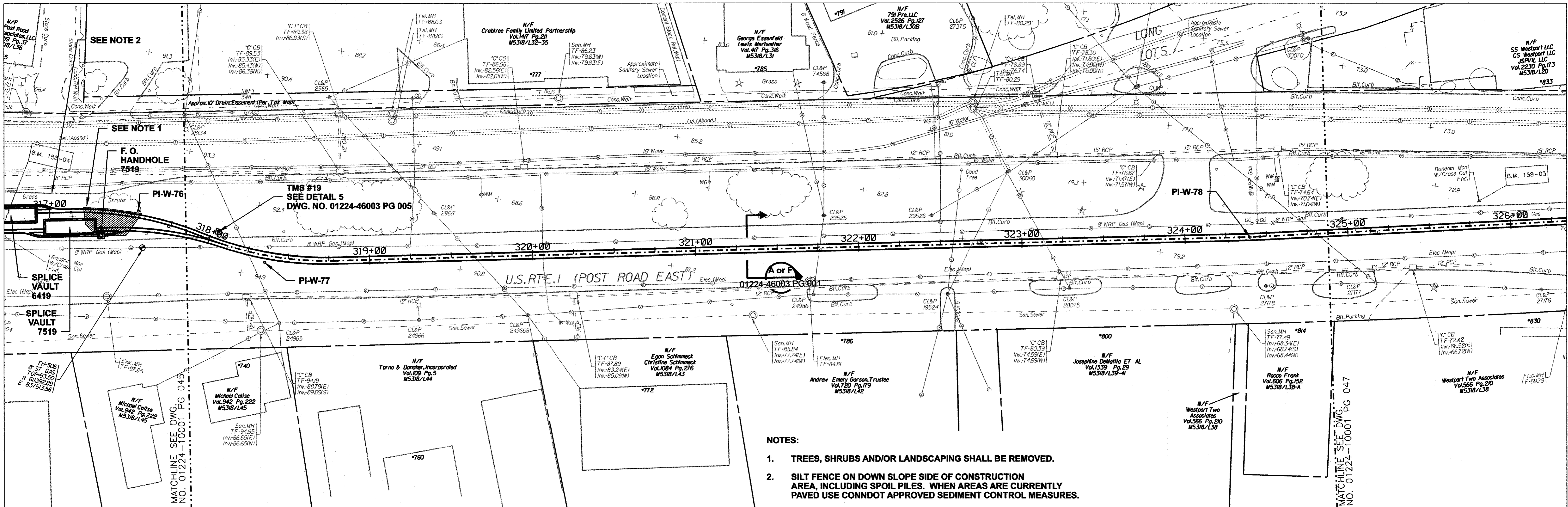
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

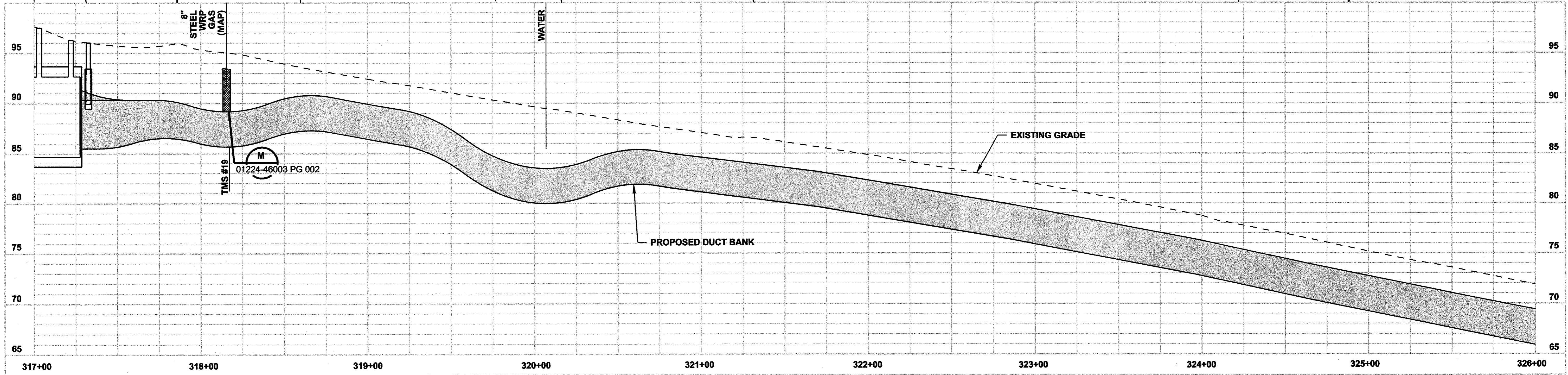
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TOWN OF WESTPORT
PLAN AND PROFILE Sta. 310+00 to 318+50

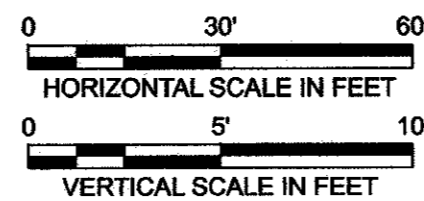
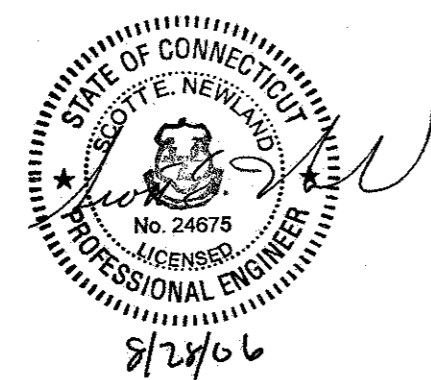
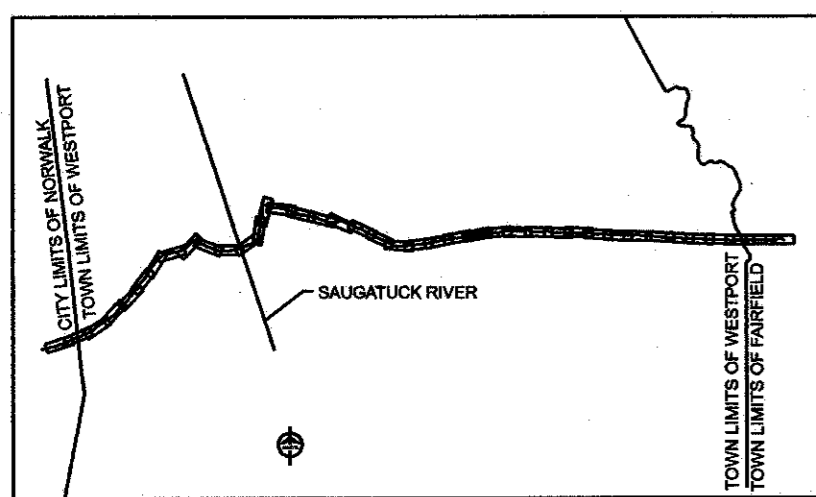
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED		DWG. NO.	01224-10001 PG 045



- NOTES:**
1. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.
 2. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.



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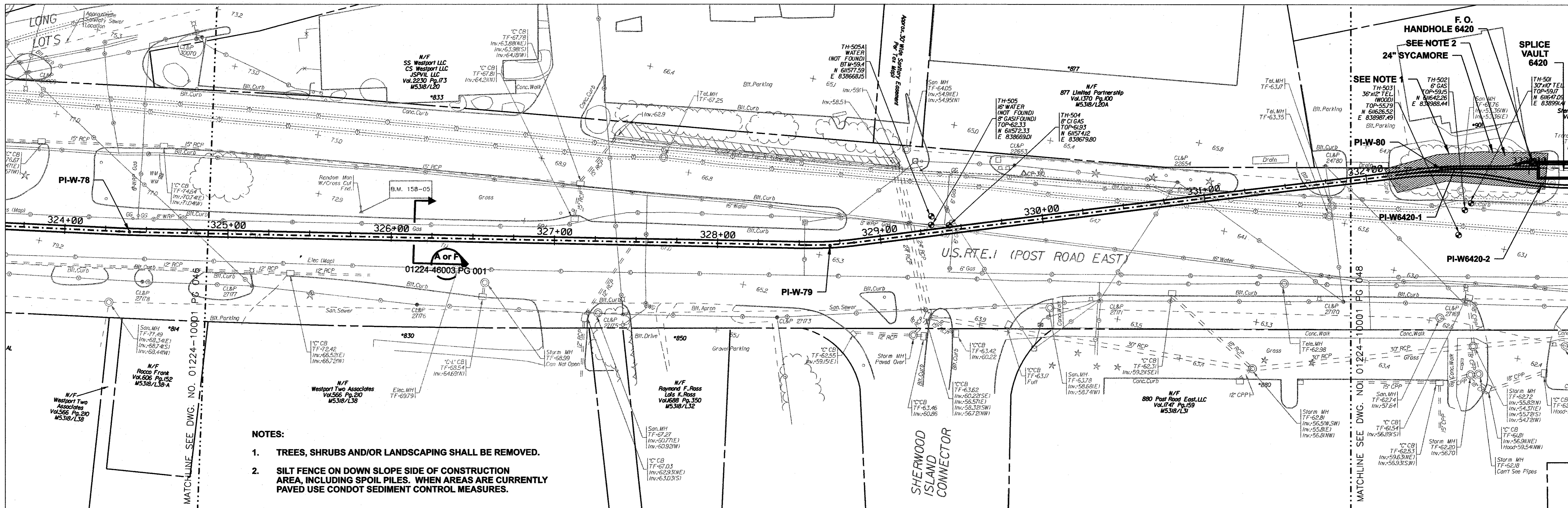
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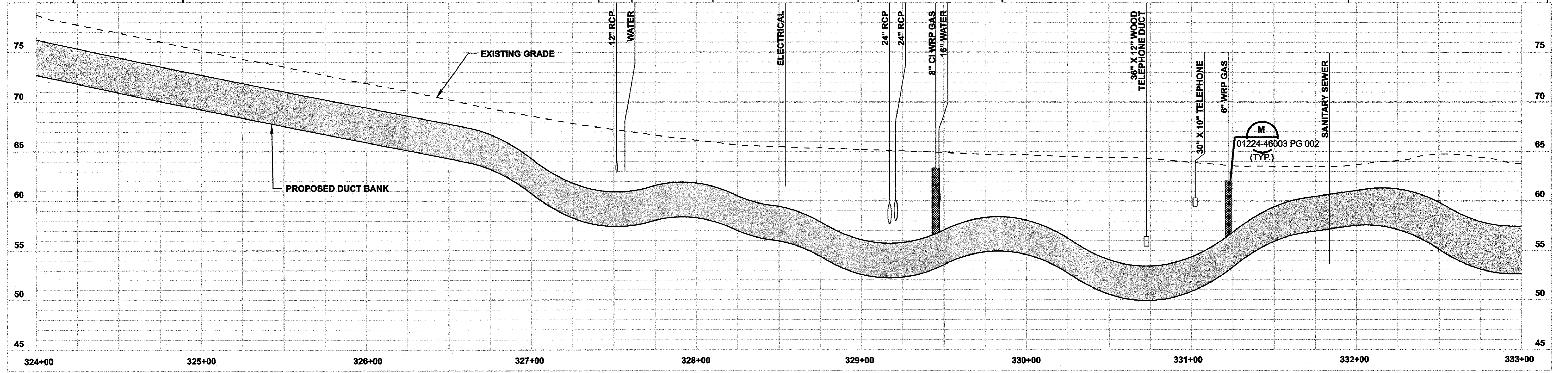
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TOWN OF WESTPORT
PLAN AND PROFILE Sta. 317+00 to 326+00

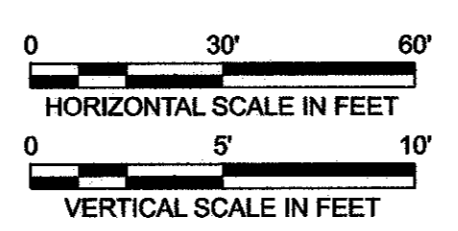
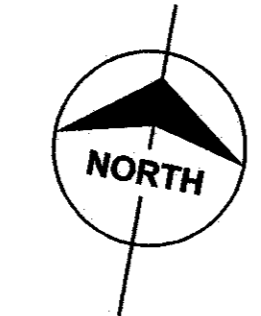
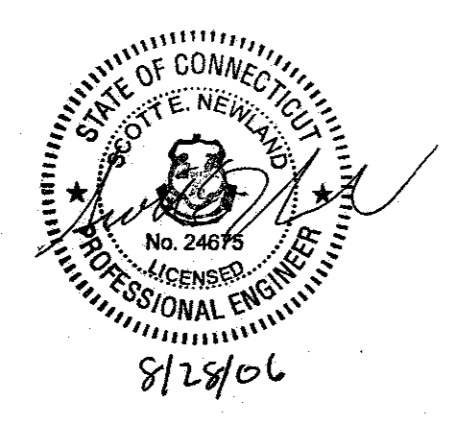
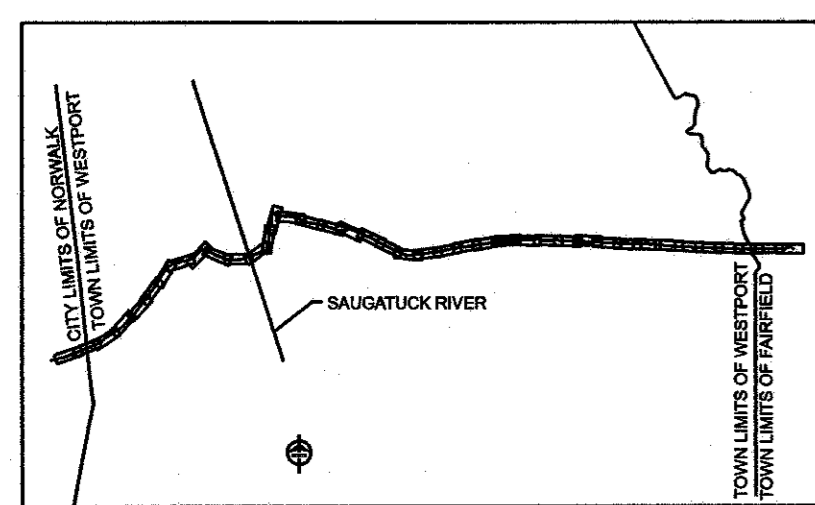
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-10001 PG 046



- NOTES:**
1. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.
 2. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT SEDIMENT CONTROL MEASURES.




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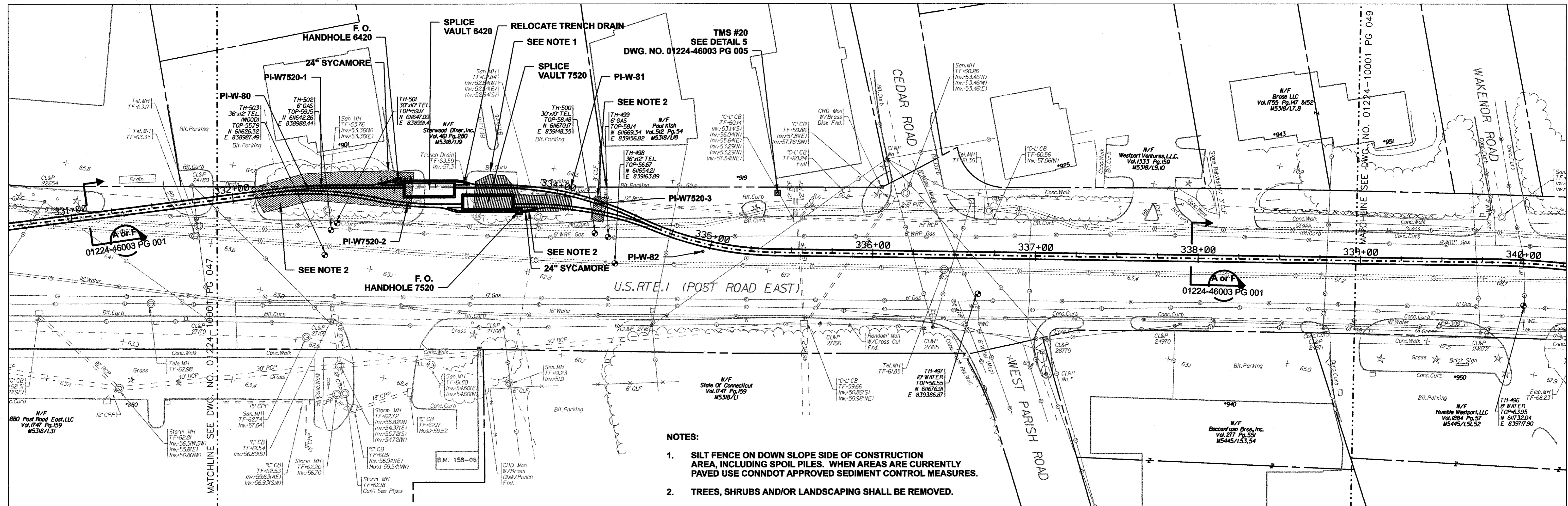
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

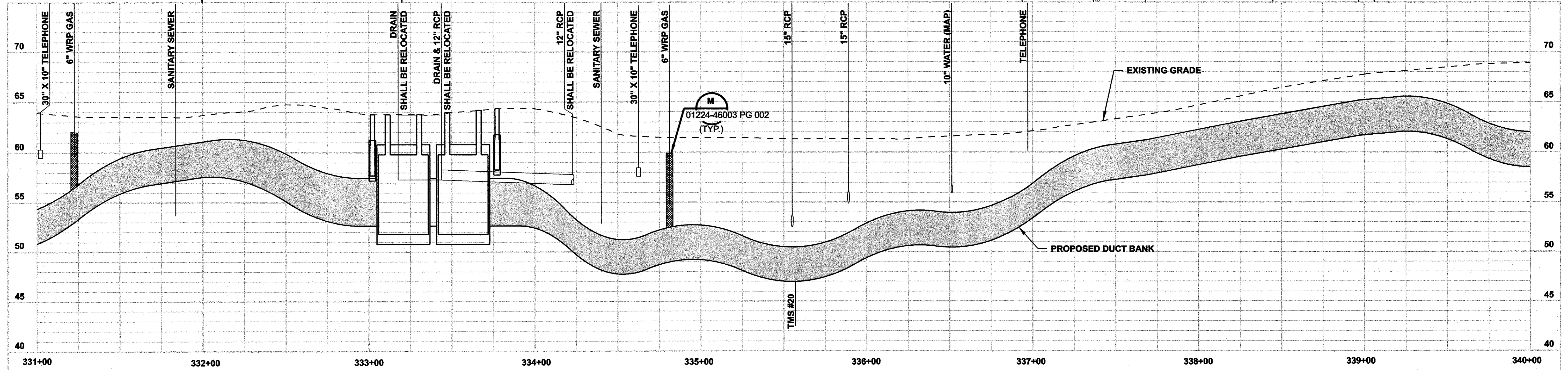
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PLAN AND PROFILE Sta. 324+00 to 333+00

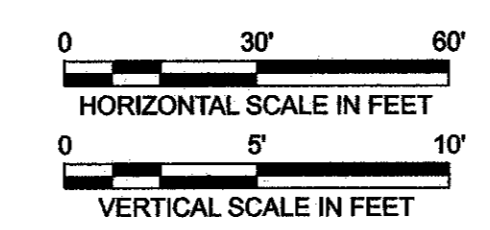
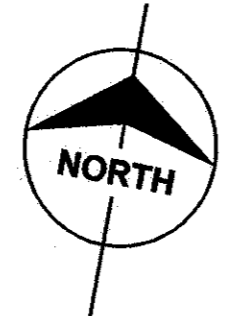
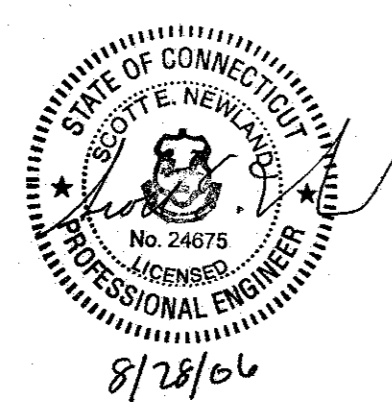
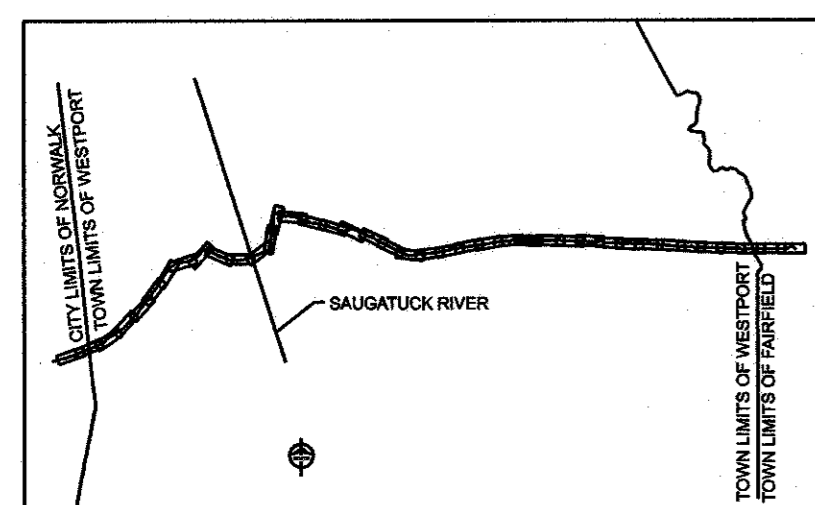
BY SEN-EMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED		DWG. NO.	01224-10001 PG 047



- NOTES:**
1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.
 2. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.



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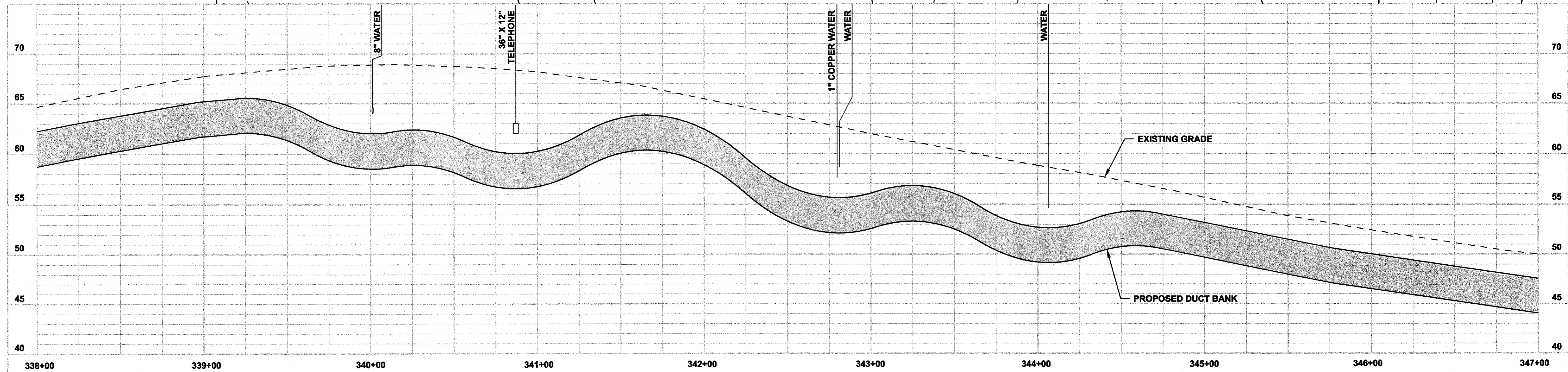
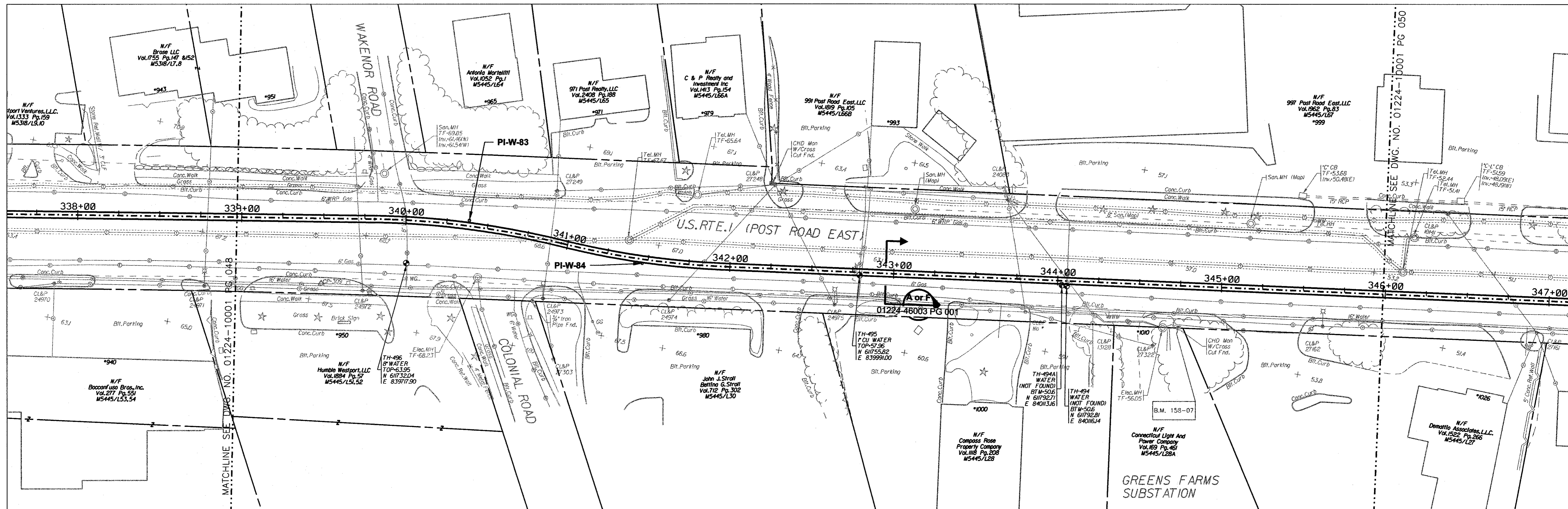


date 11/10/05
designed C. COURTRIGHT
detailed L. ROWSE
checked S. NEWLAND

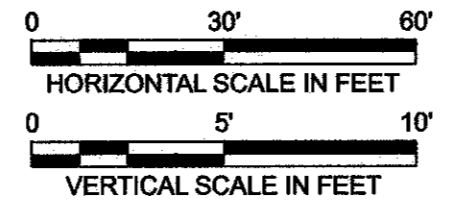
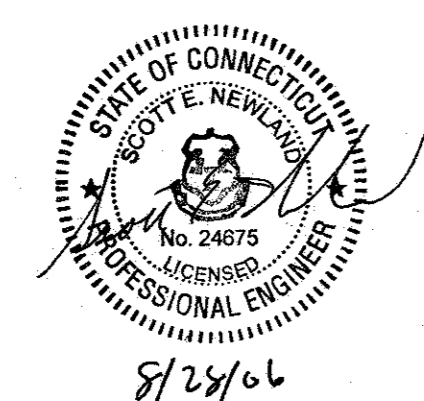
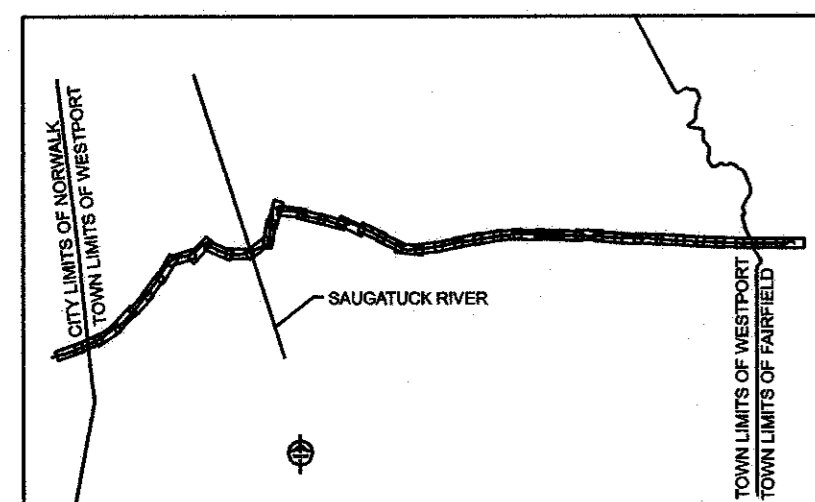
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MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

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FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT			
TOWN OF WESTPORT PLAN AND PROFILE Sta. 331+00 to 340+00			
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
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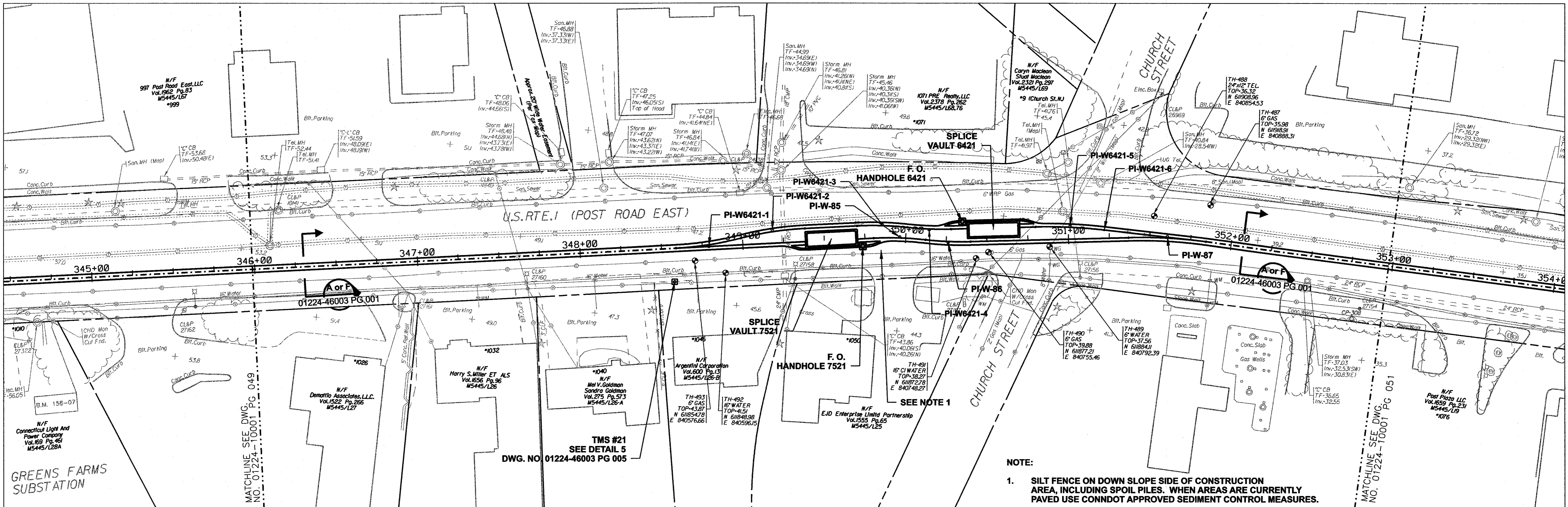
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

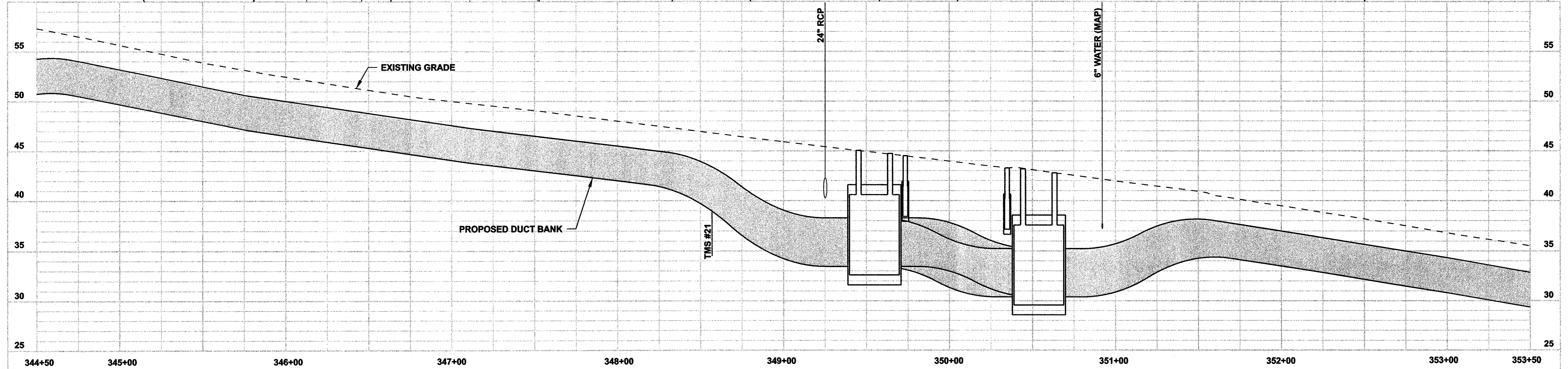
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TOWN OF WESTPORT
PLAN AND PROFILE Sta. 338+00 to 347+00

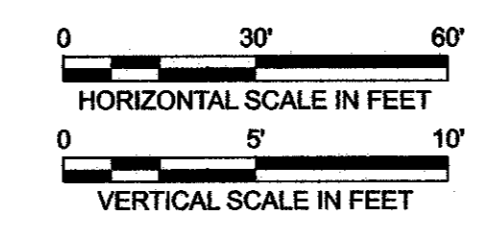
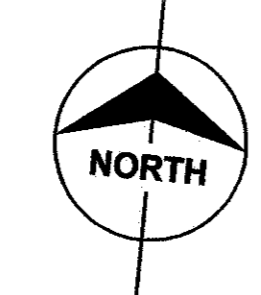
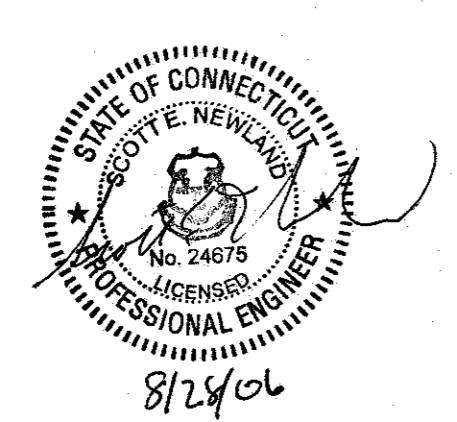
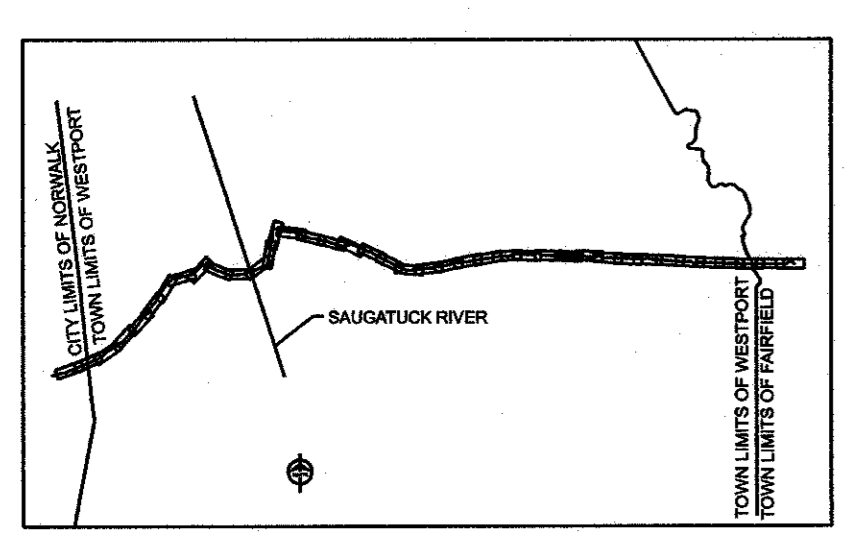
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DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-10001 PG 049



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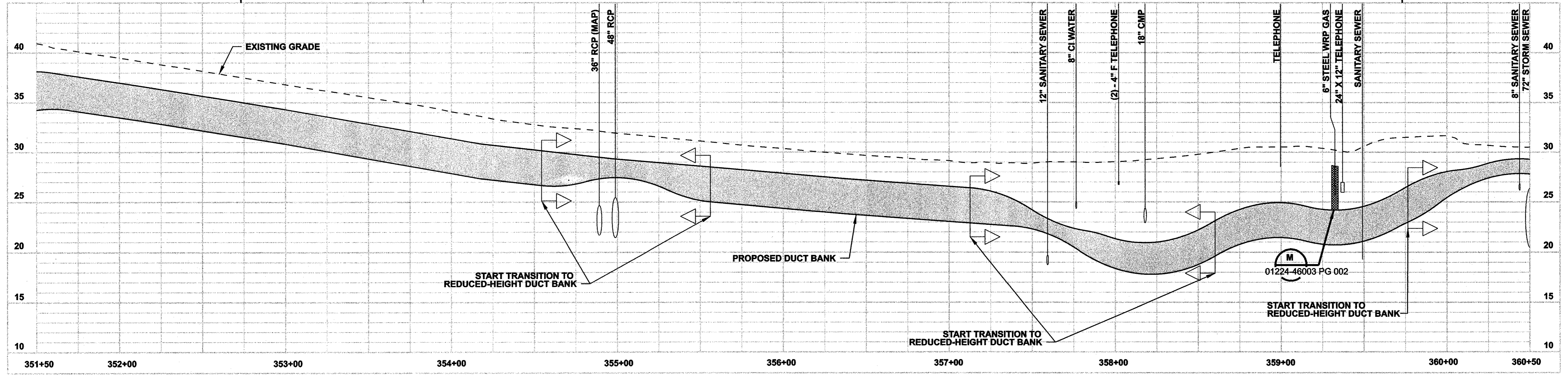
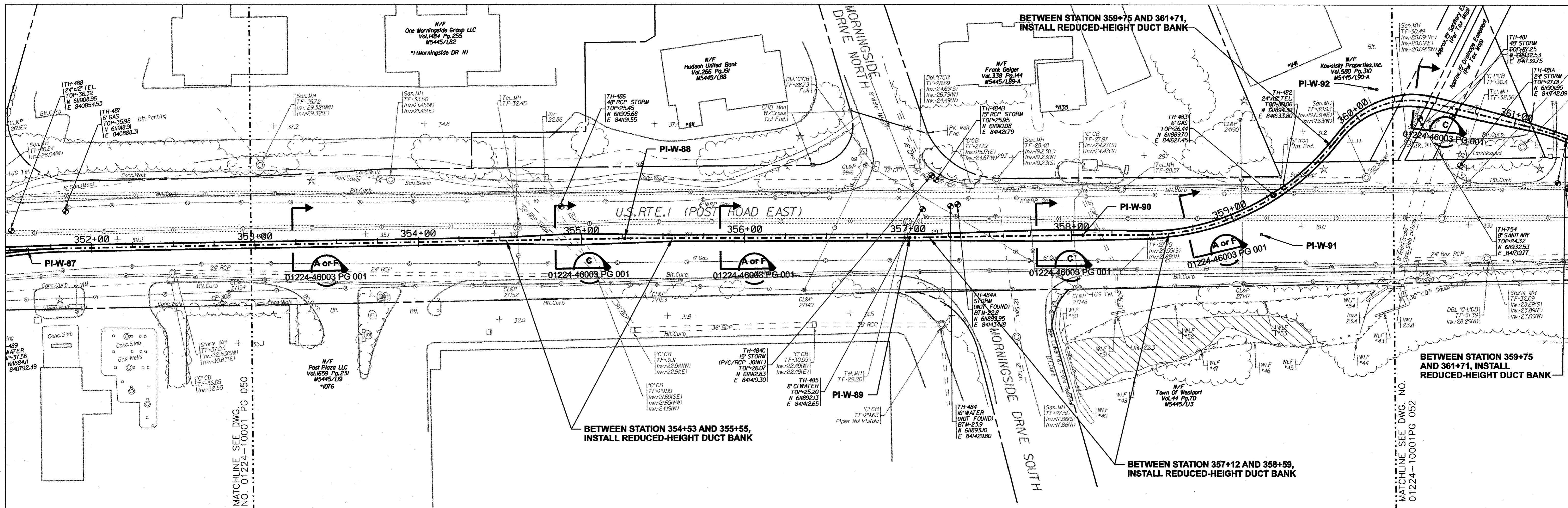
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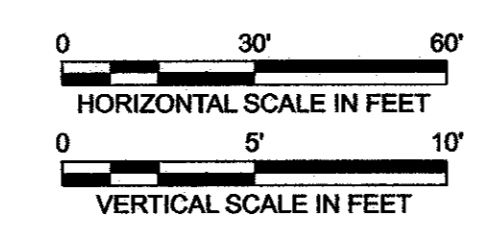
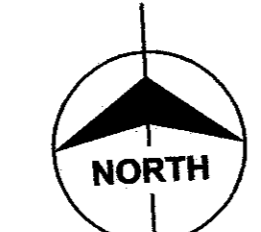
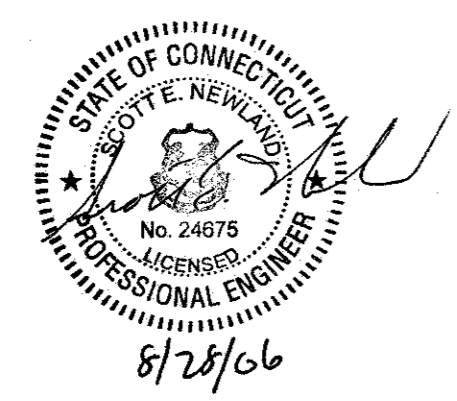
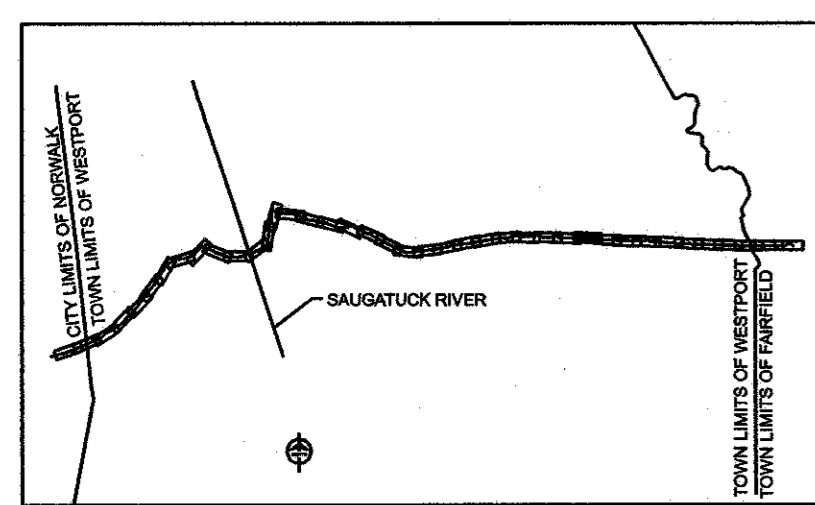
date 11/10/05
 designed C. COURTRIGHT
 detailed L. ROWSE
 checked S. NEWLAND

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1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

NORTHEAST UTILITIES SERVICE CO.			
FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT			
TOWN OF WESTPORT PLAN AND PROFILE Sta. 344+50 to 353+50			
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
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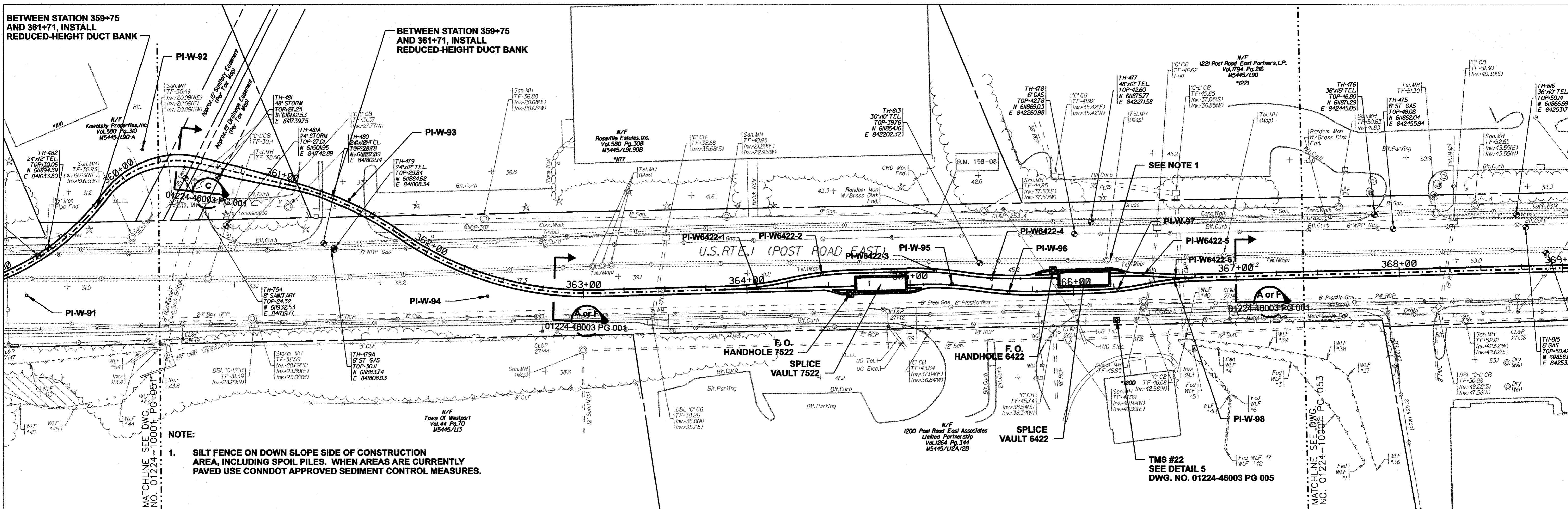
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TOWN OF WESTPORT
PLAN AND PROFILE Sta. 351+50 to 360+50

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
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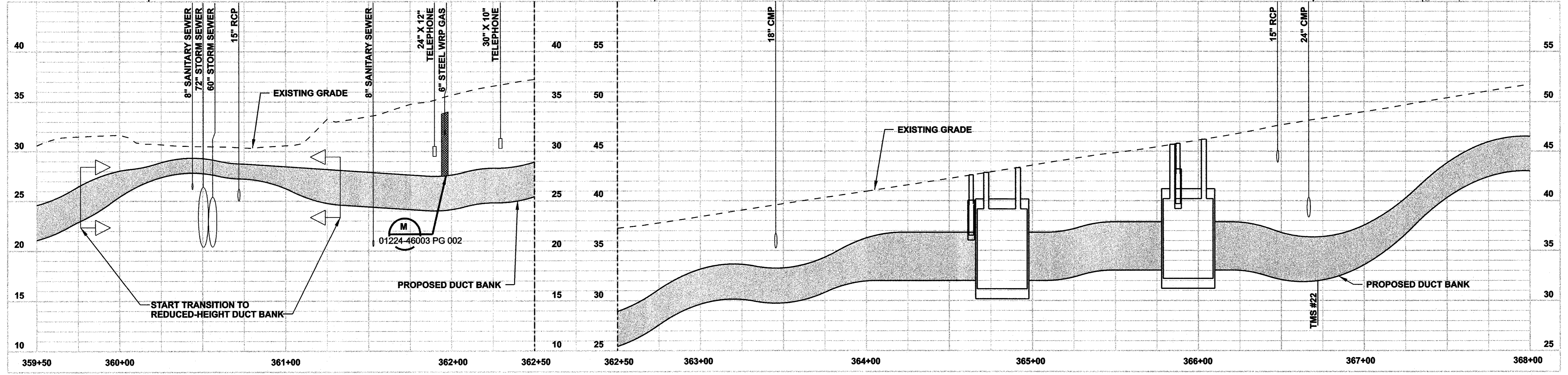
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BETWEEN STATION 359+75 AND 361+71, INSTALL REDUCED-HEIGHT DUCT BANK

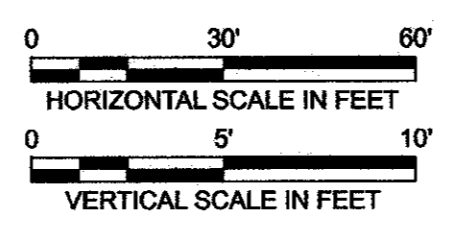
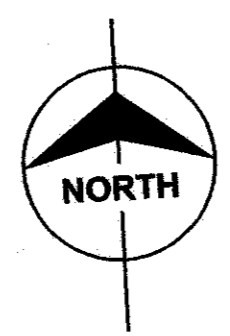
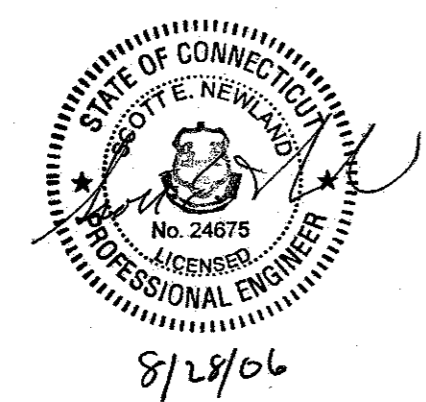
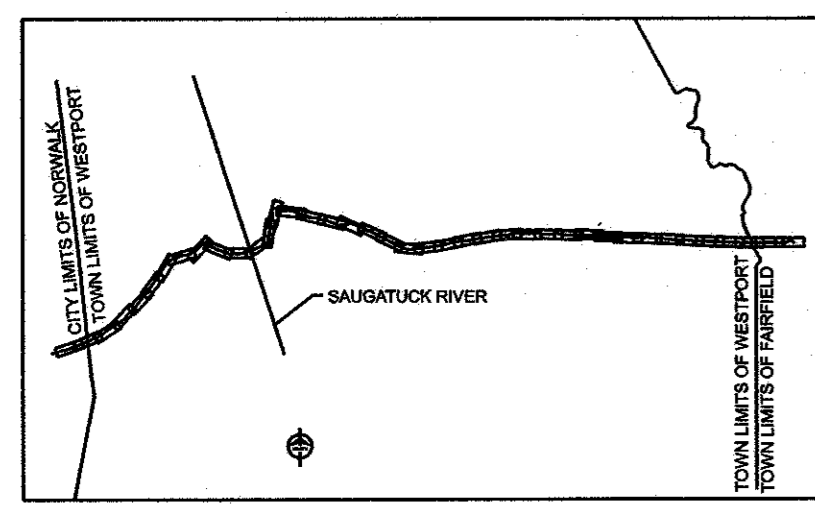


NOTE:

1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONNDOT APPROVED SEDIMENT CONTROL MEASURES.



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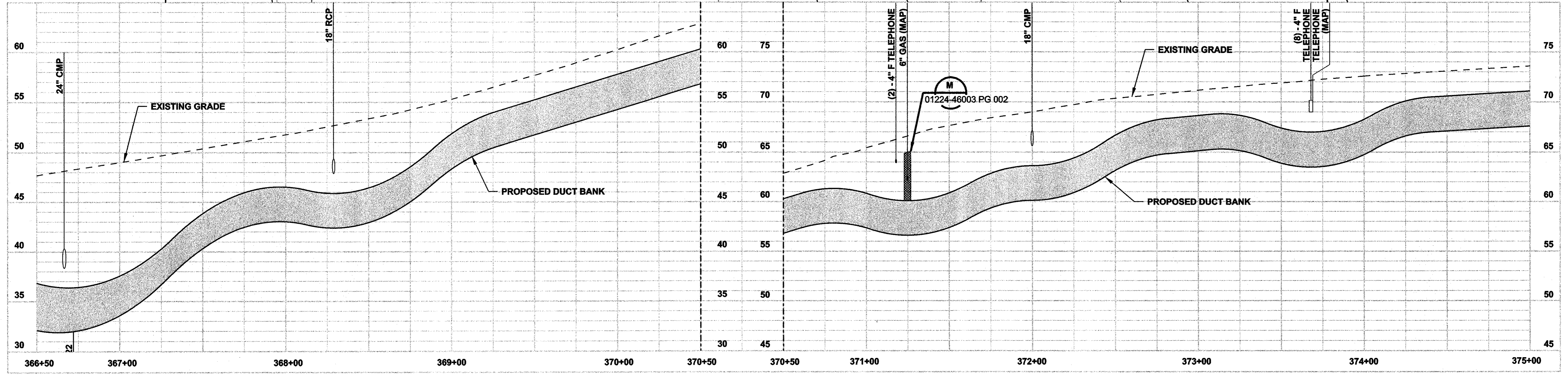
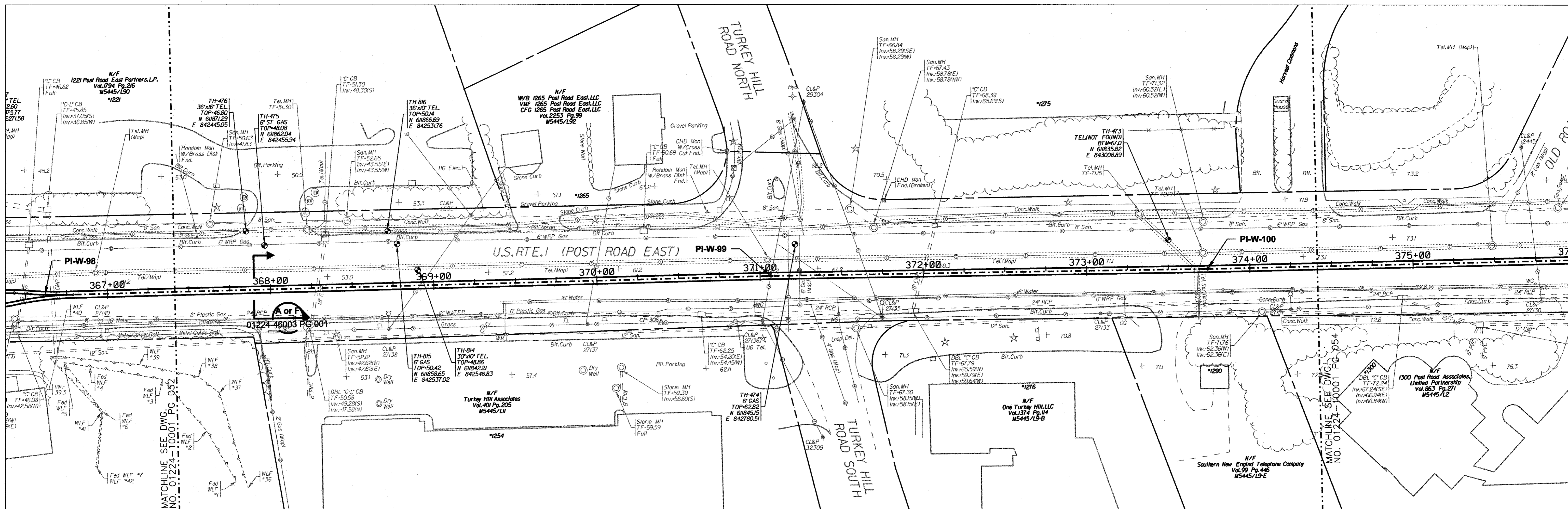
NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

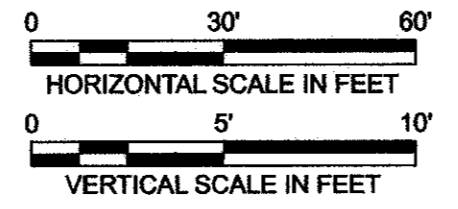
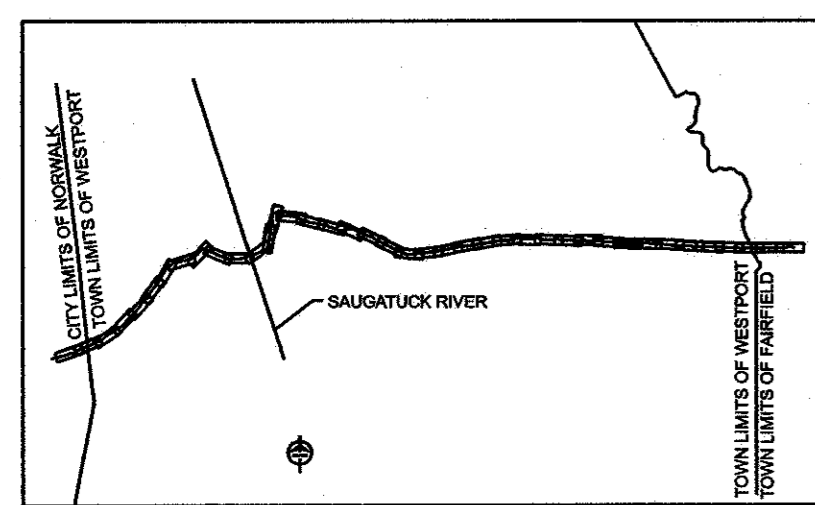
TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 359+50 to 368+00

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO. 01224-10001 PG 052	



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date 11/10/05
designed C. COURTRIGHT
checked S. NEWLAND
detailed L. ROWSE

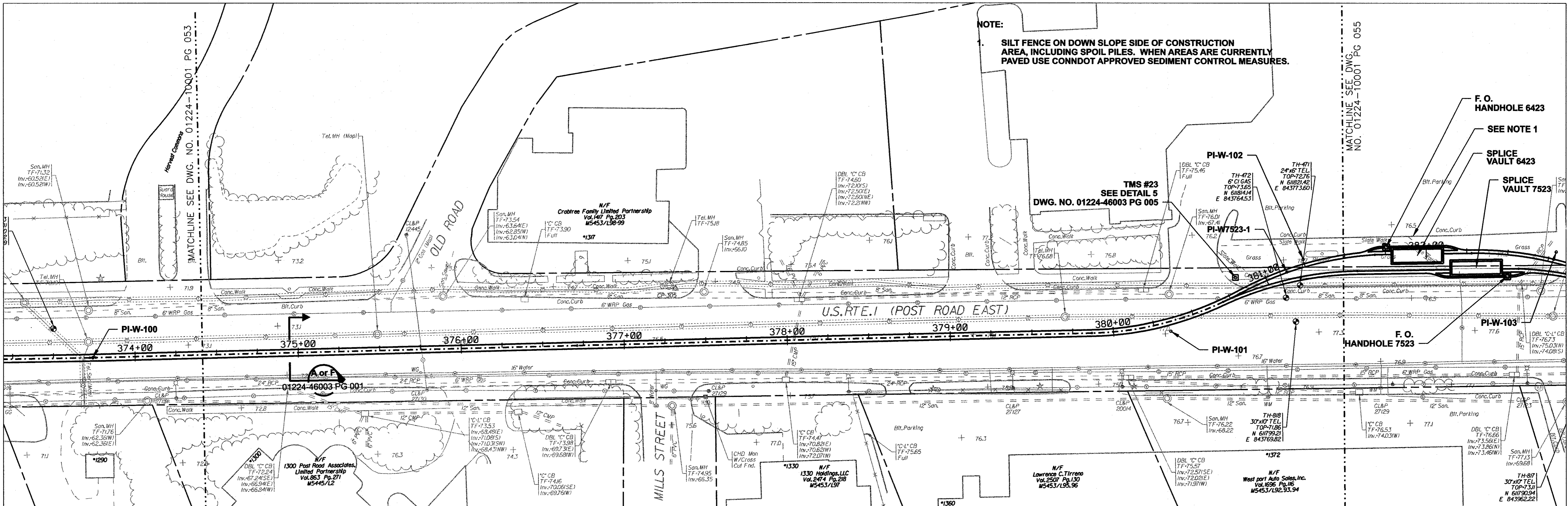
no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.
FOR THE CONNECTICUT LIGHT & POWER COMPANY
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
TOWN OF WESTPORT
PLAN AND PROFILE Sta. 366+50 to 375+00

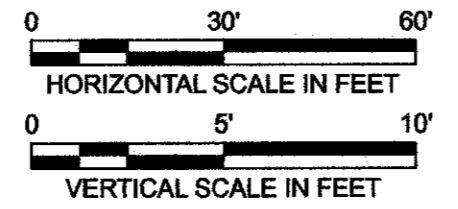
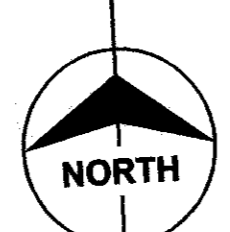
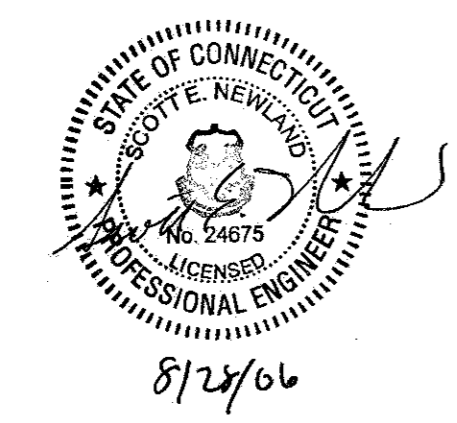
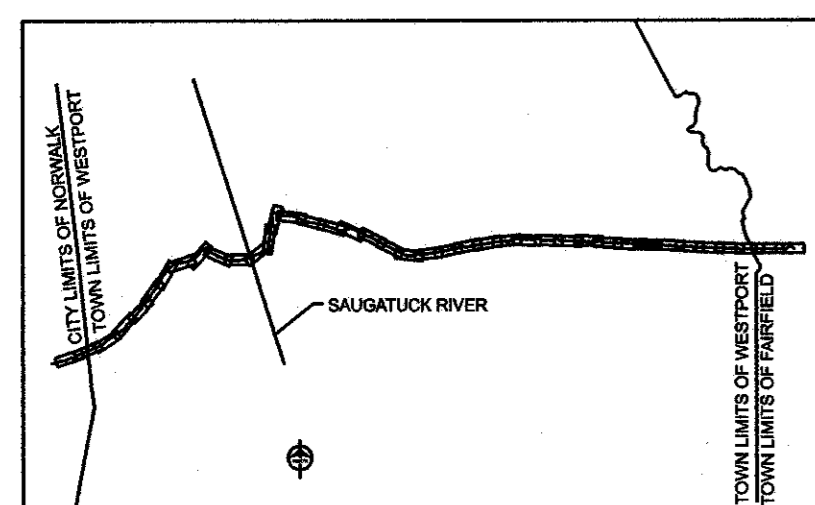
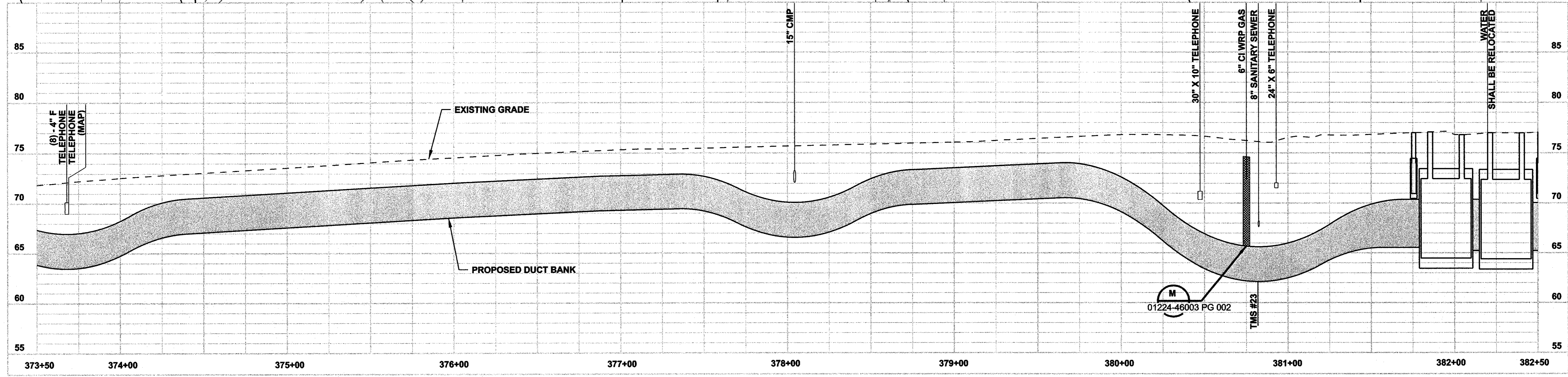
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DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED		DWG. NO.	01224-10001 PG 053

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NOTE:
 1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.

MATCHLINE SEE DWG. NO. 01224-10001 PG 055



ISSUED FOR CONSTRUCTION

DOCKET No. 272



date 11/10/05
 designed C. COURTRIGHT
 detailed L. ROWSE
 checked S. NEWLAND

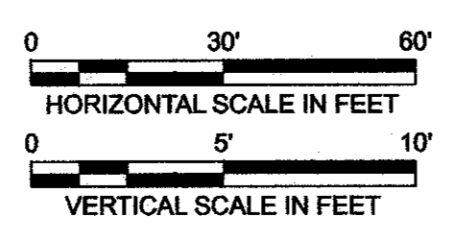
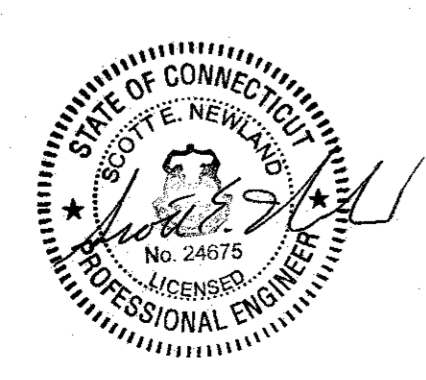
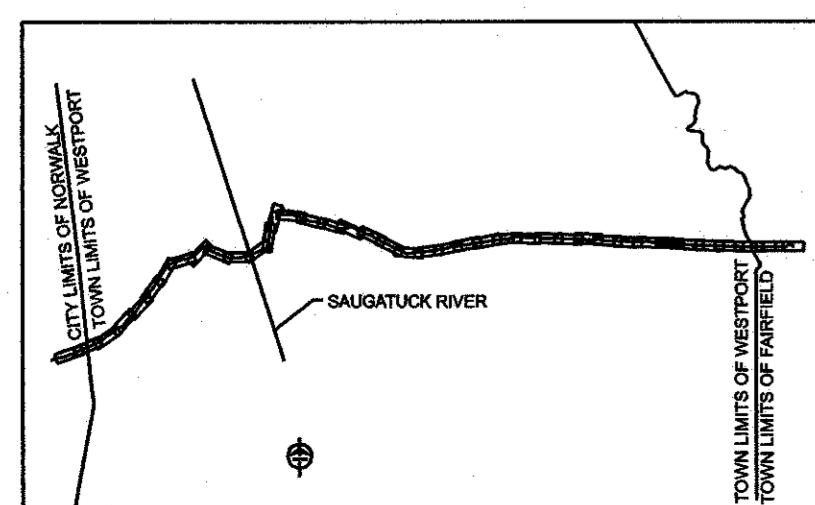
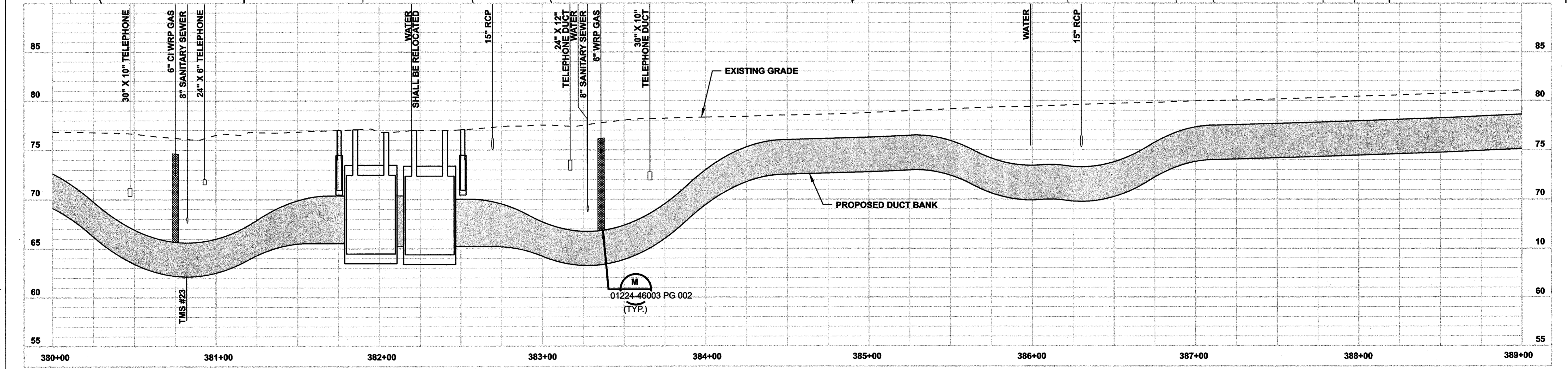
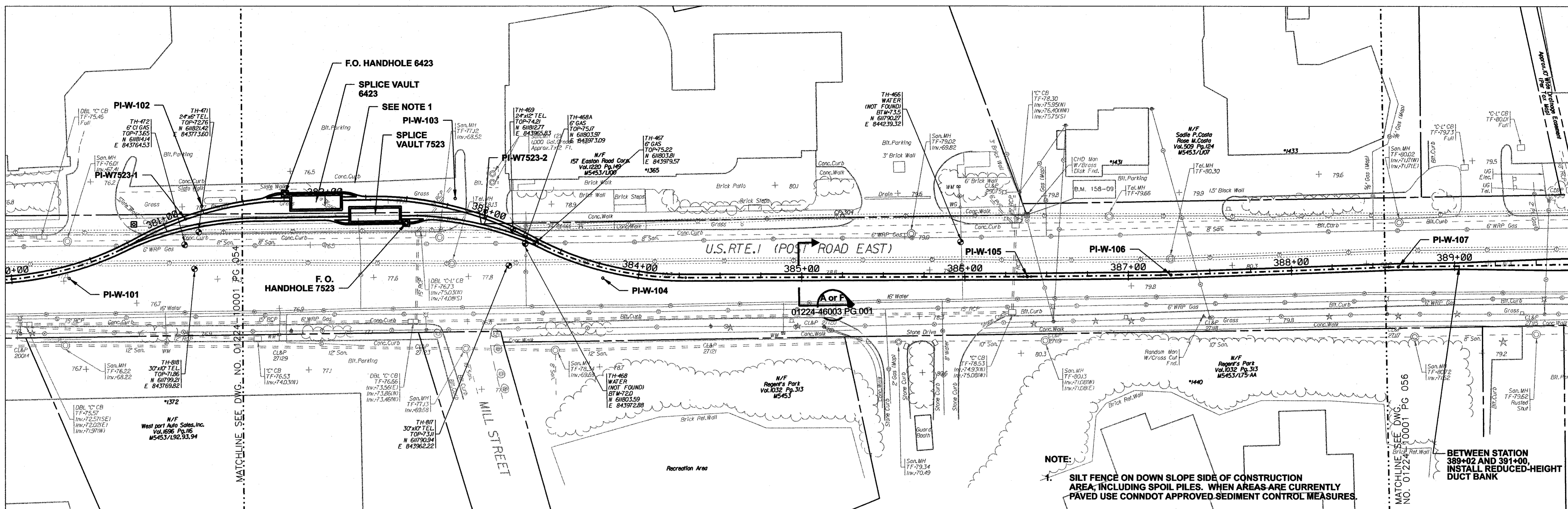
no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.
 FOR THE CONNECTICUT LIGHT & POWER COMPANY
 TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
 TOWN OF WESTPORT
 PLAN AND PROFILE Sta. 373+50 to 382+50

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-10001 PG 054

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SINCE 1898

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designed C. COURTRIGHT
detailed L. ROWSE
checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

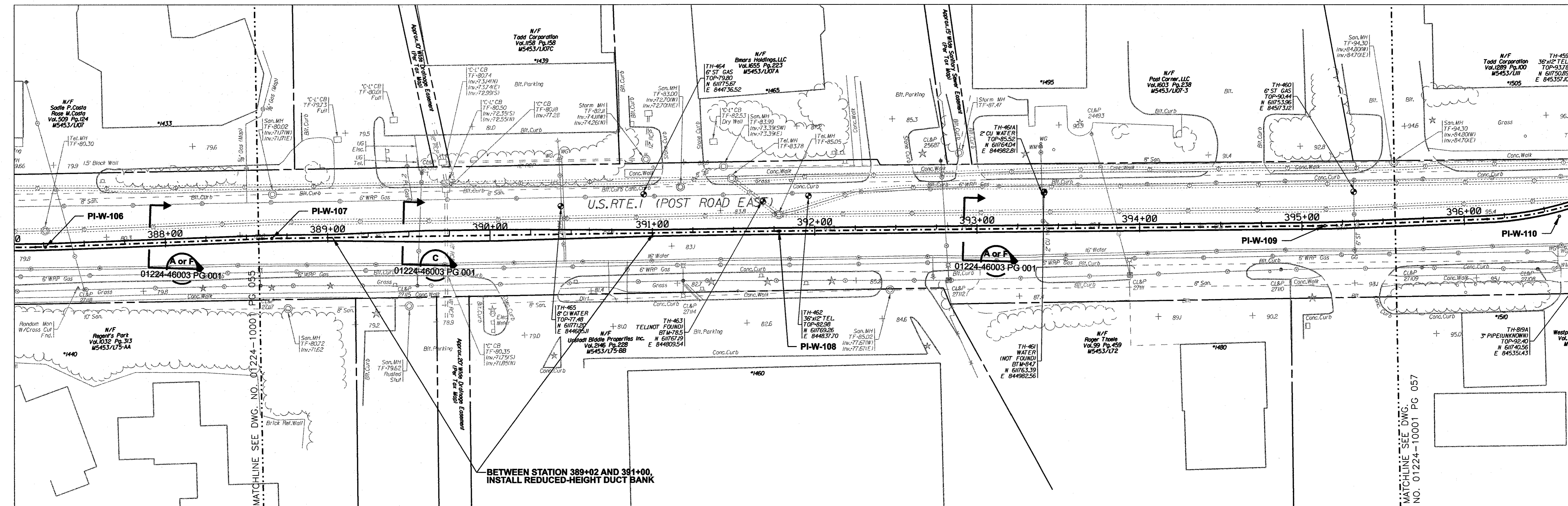
NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

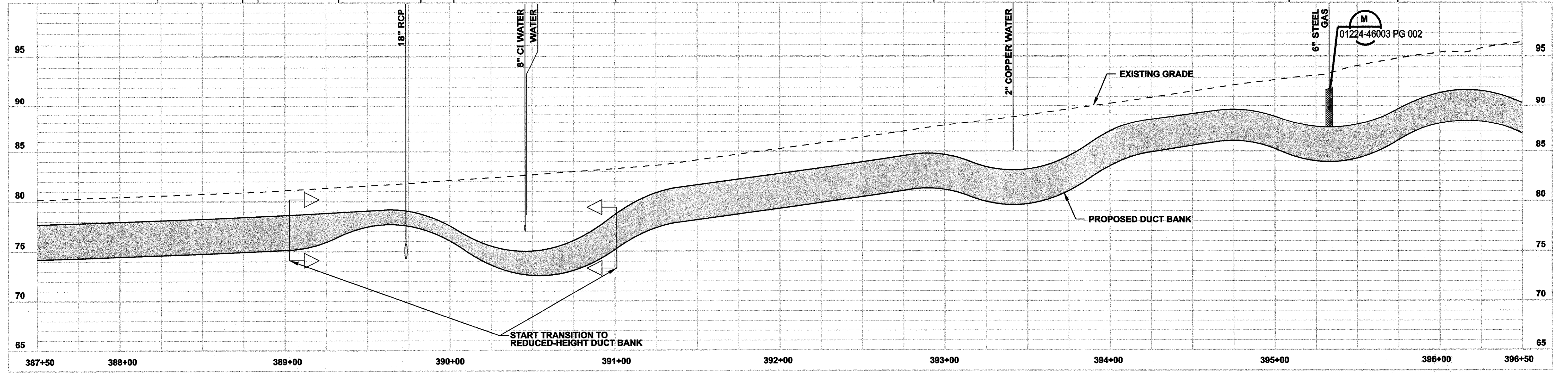
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TOWN OF WESTPORT
PLAN AND PROFILE Sta. 380+00 to 389+00

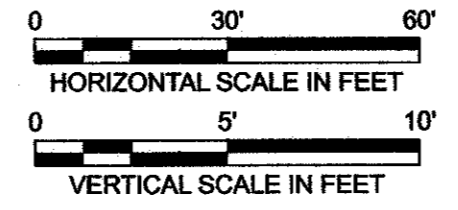
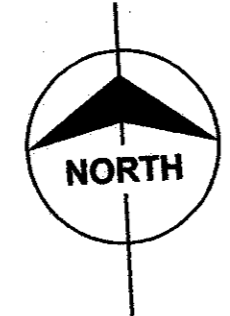
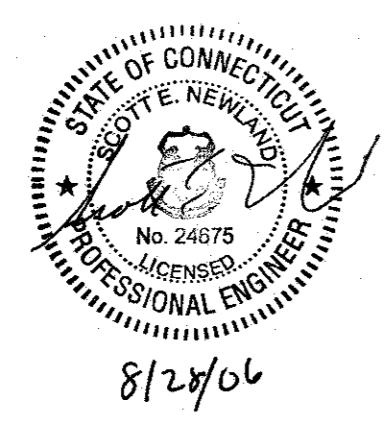
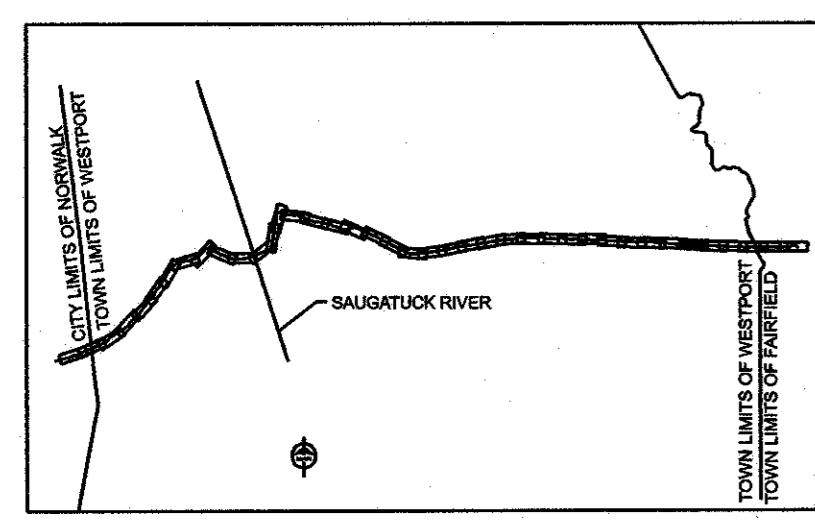
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED		DWC. NO. 01224-10001 PG 055	



BETWEEN STATION 389+02 AND 391+00,
INSTALL REDUCED-HEIGHT DUCT BANK



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date 11/10/05 detailed L. ROWSE
designed C. COURTRIGHT checked S. NEWLAND

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

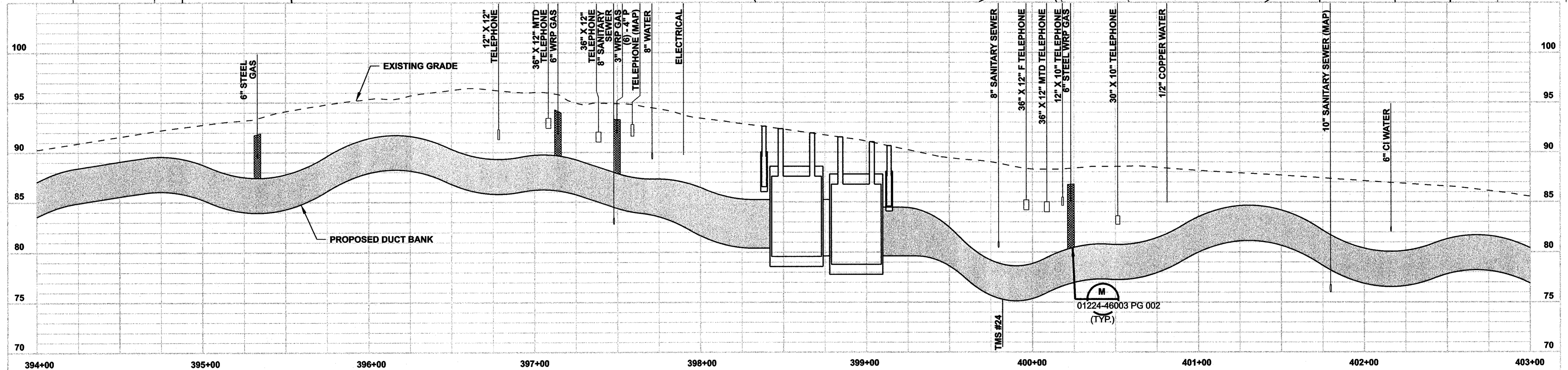
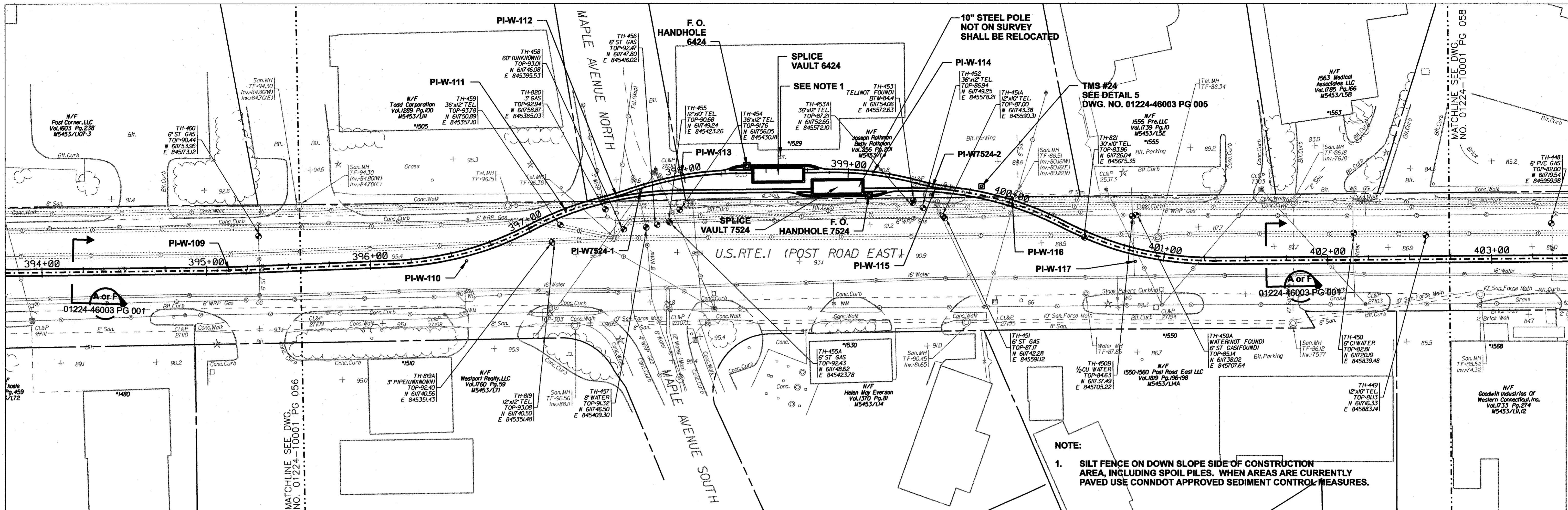
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

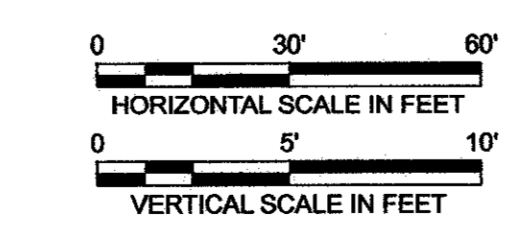
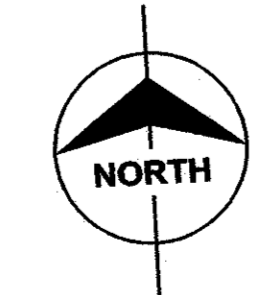
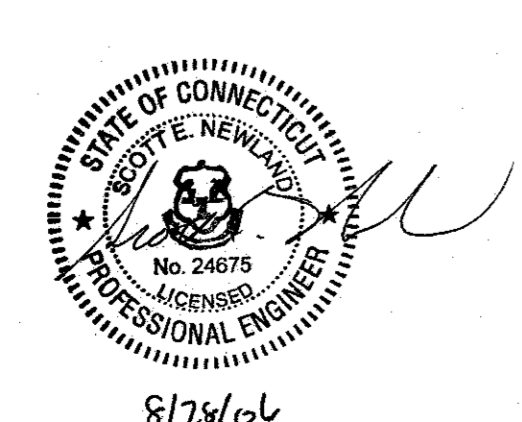
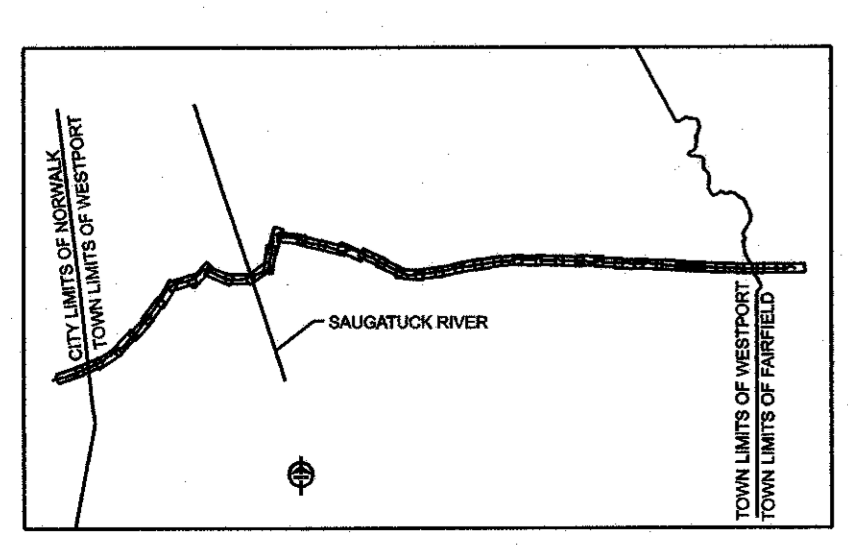
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 387+50 to 396+50

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO. 01224-10001 PG 056	



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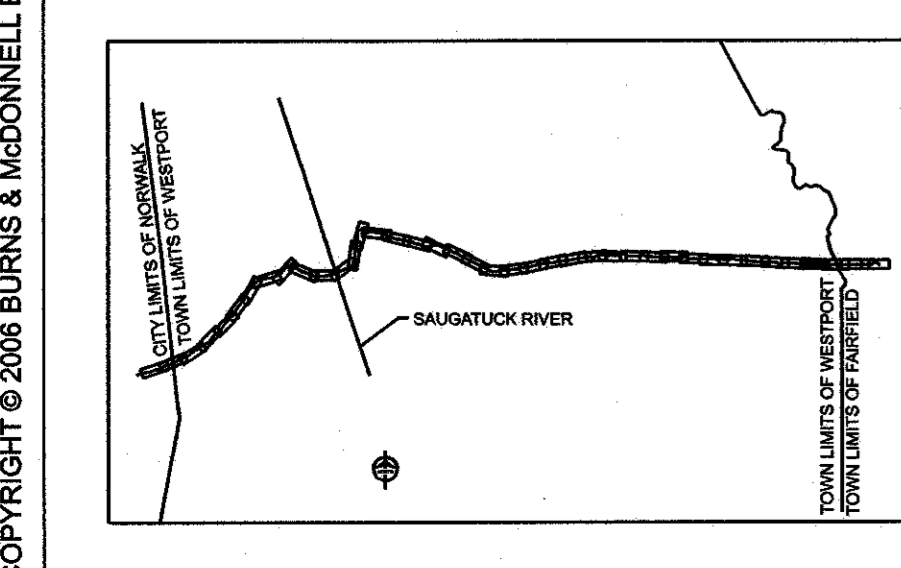
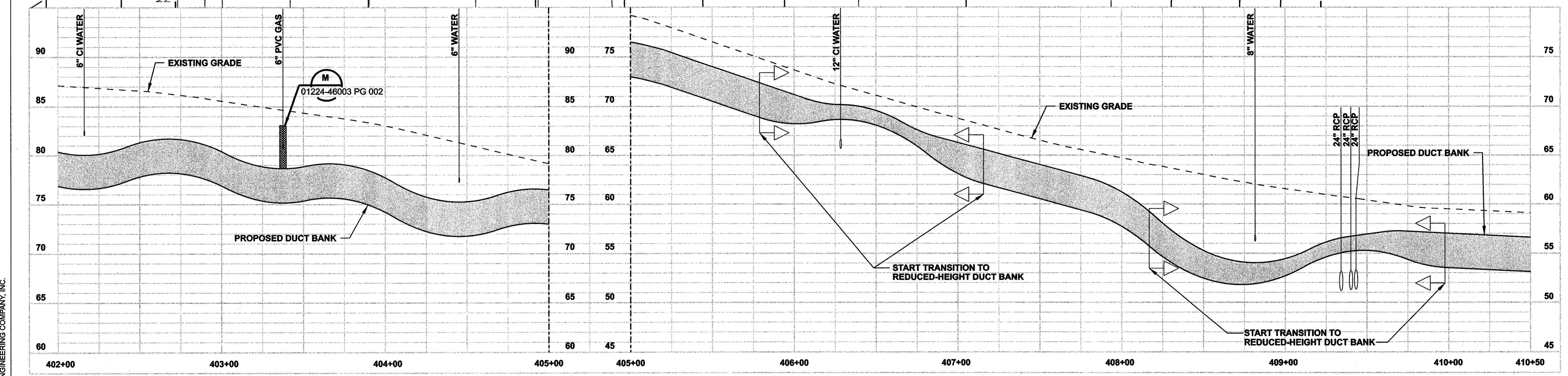
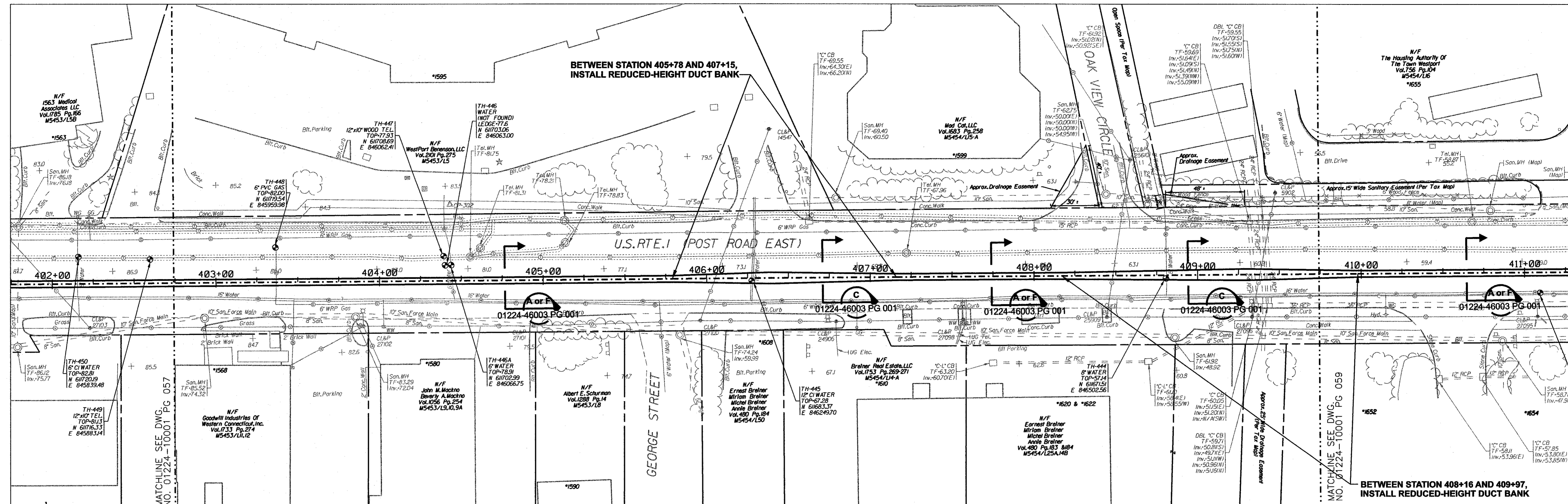
DOCKET No. 272



date 11/10/05
designed C. COURTRIGHT
detailed L. ROWSE
checked S. NEWLAND

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

NORTHEAST UTILITIES SERVICE CO.					
FOR THE CONNECTICUT LIGHT & POWER COMPANY					
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT					
TOWN OF WESTPORT PLAN AND PROFILE Sta. 394+00 to 403+00					
BY	SEN-BMCD	CHKD	APP	APP	
DATE	11-10-05	DATE		DATE	
SCALE	AS NOTED		DWG. NO.	01224-10001 PG 057	
MF NO.		DATE	REVISIONS	BY	
				CHK	
				APP	
				APP	



STATE OF CONNECTICUT
SCOTT E. NEWLAND
No. 24875
LICENSED PROFESSIONAL ENGINEER
8/23/06

NORTH

DOCKET No. 272

0 30' 60'
HORIZONTAL SCALE IN FEET

0 5' 10'
VERTICAL SCALE IN FEET

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no.	date	revisions	by	chk
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designed C. COURTRIGHT
detailed L. ROWSE
checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.

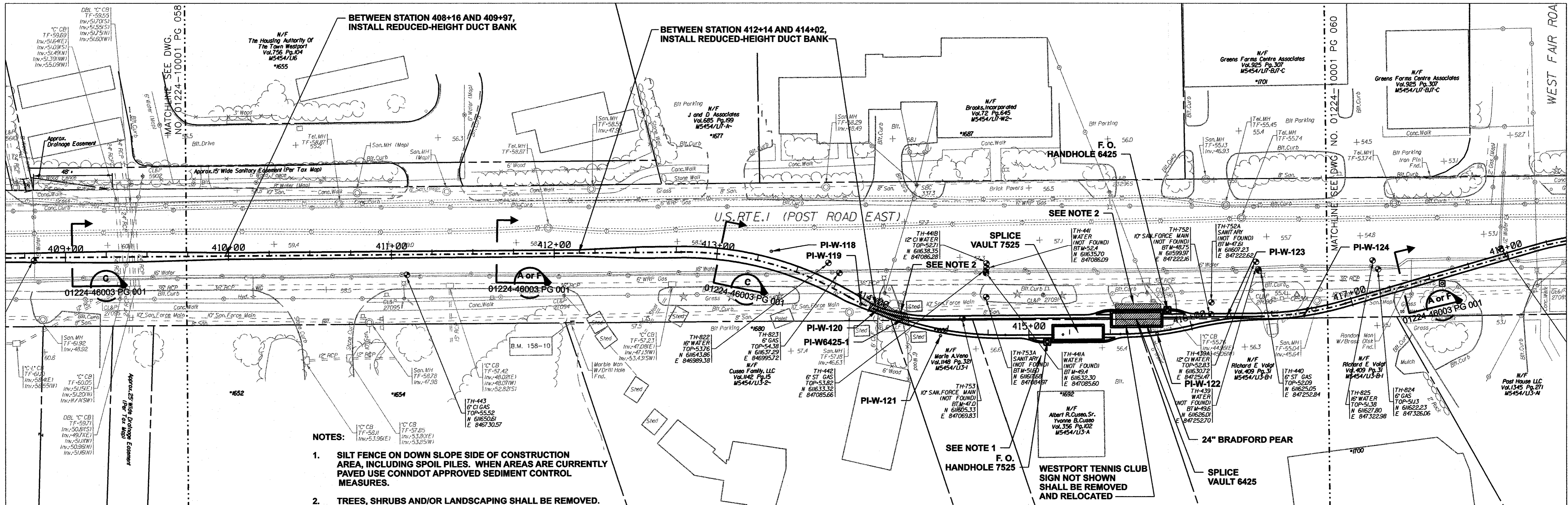
FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

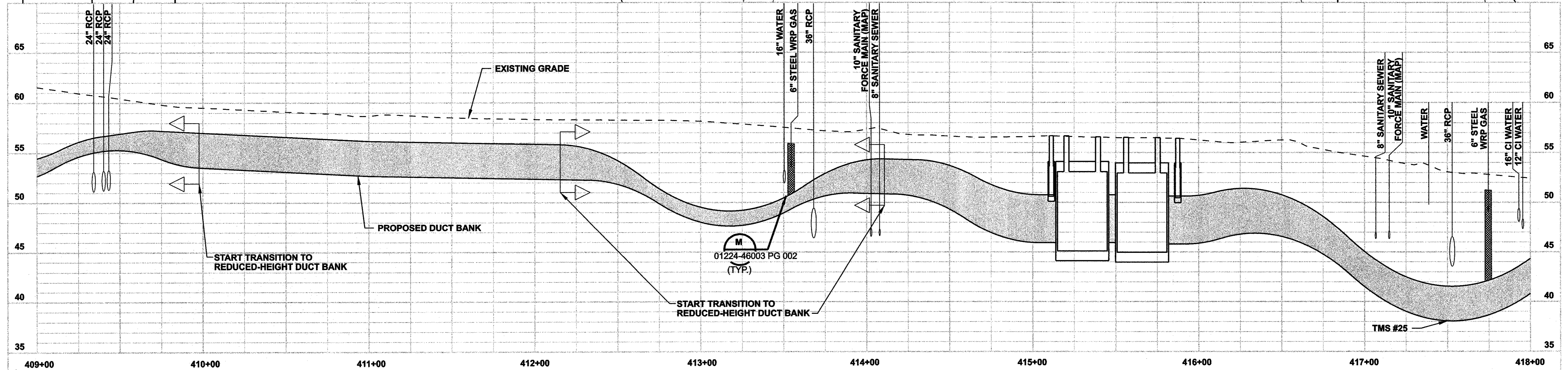
TOWN OF WESTPORT
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BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO. 01224-10001 PG 058	

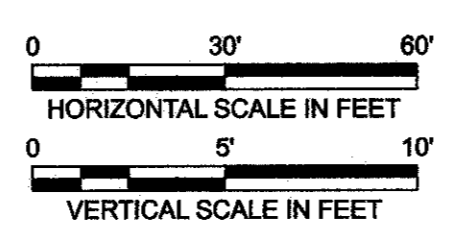
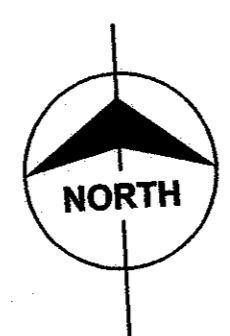
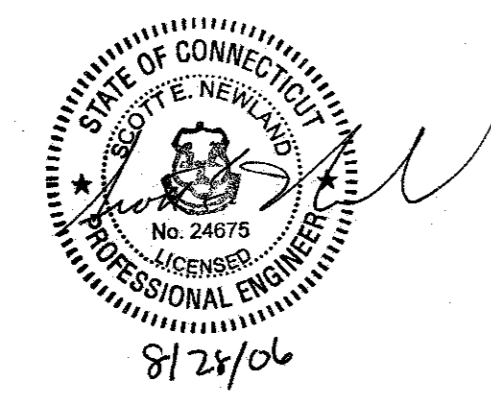
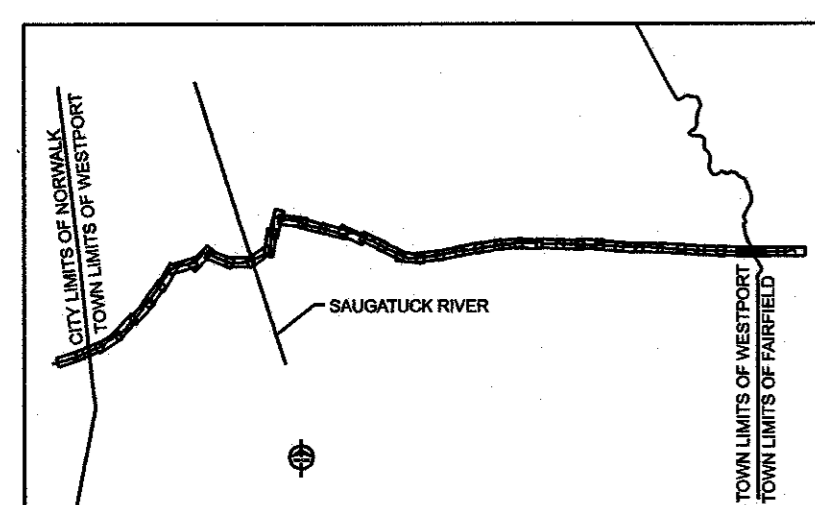
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- NOTES:**
1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.
 2. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.



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detailed L. ROWSE
checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

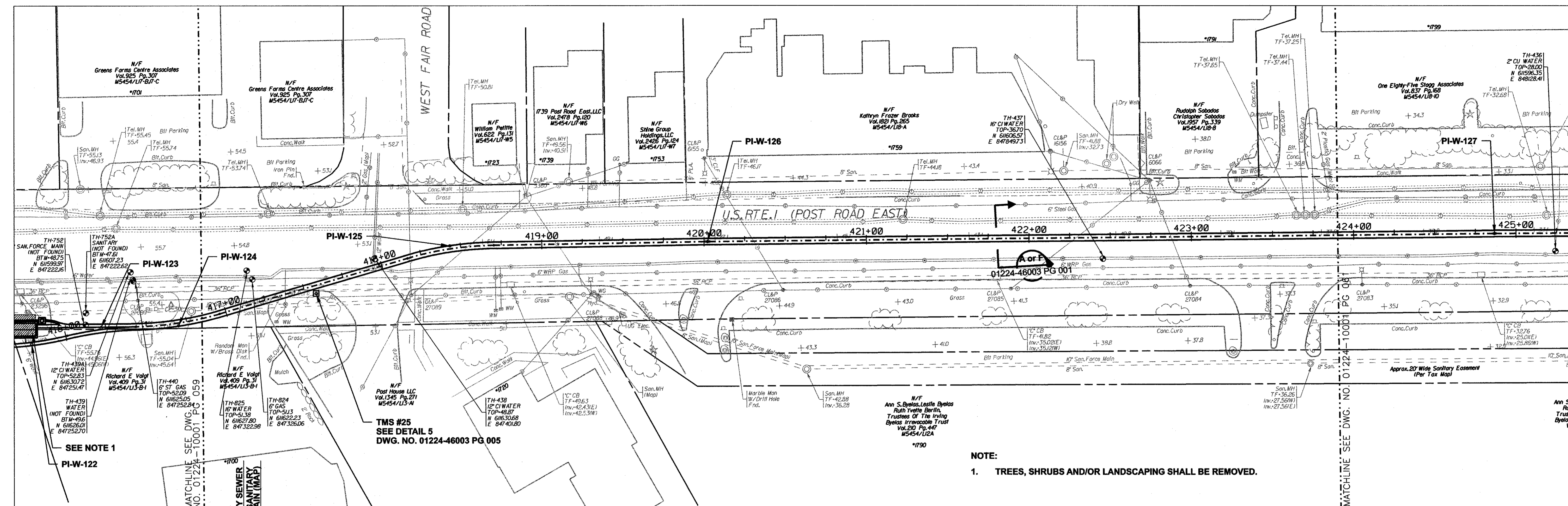
NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

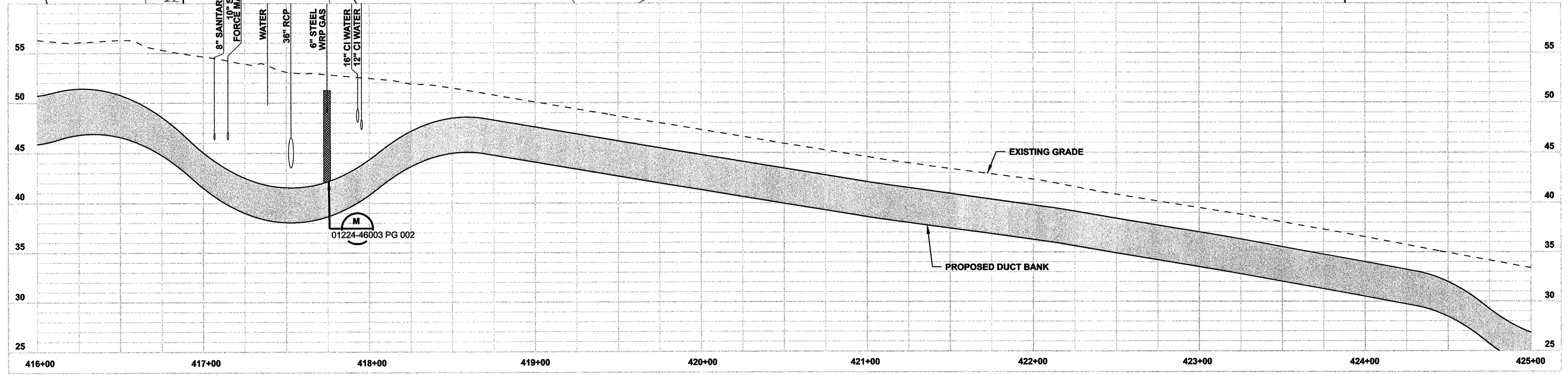
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 409+00 to 418+00

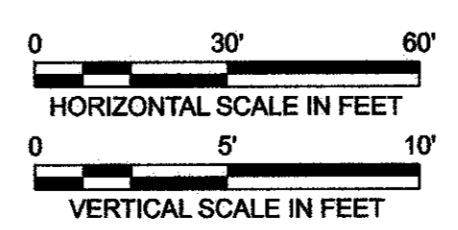
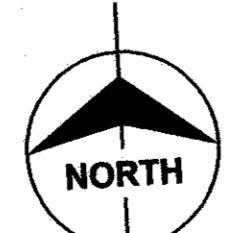
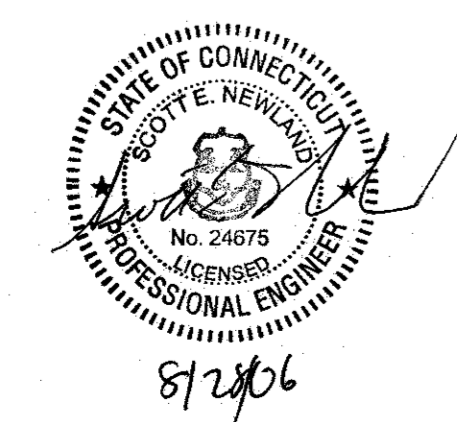
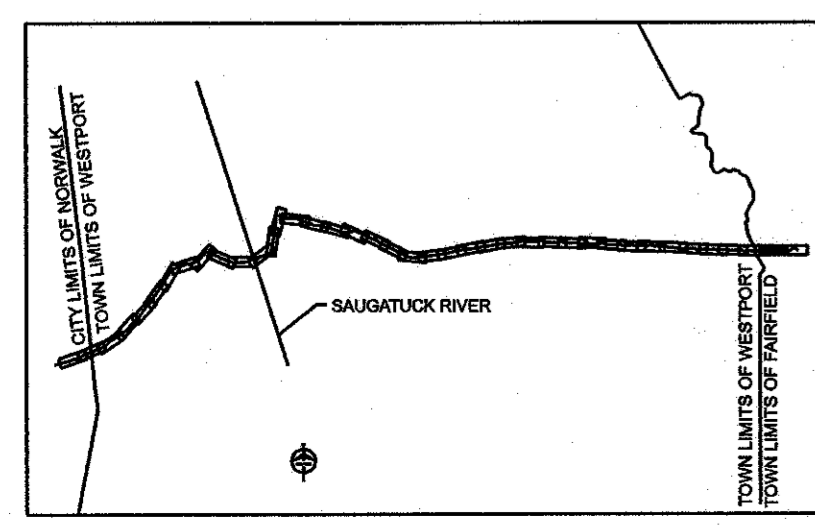
BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED		D	DWG. NO. 01224-10001 PG 059



NOTE:
1. TREES, SHRUBS AND/OR LANDSCAPING SHALL BE REMOVED.



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date 11/10/05
designed C. COURTRIGHT
checked S. NEWLAND
detailed L. ROWSE

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

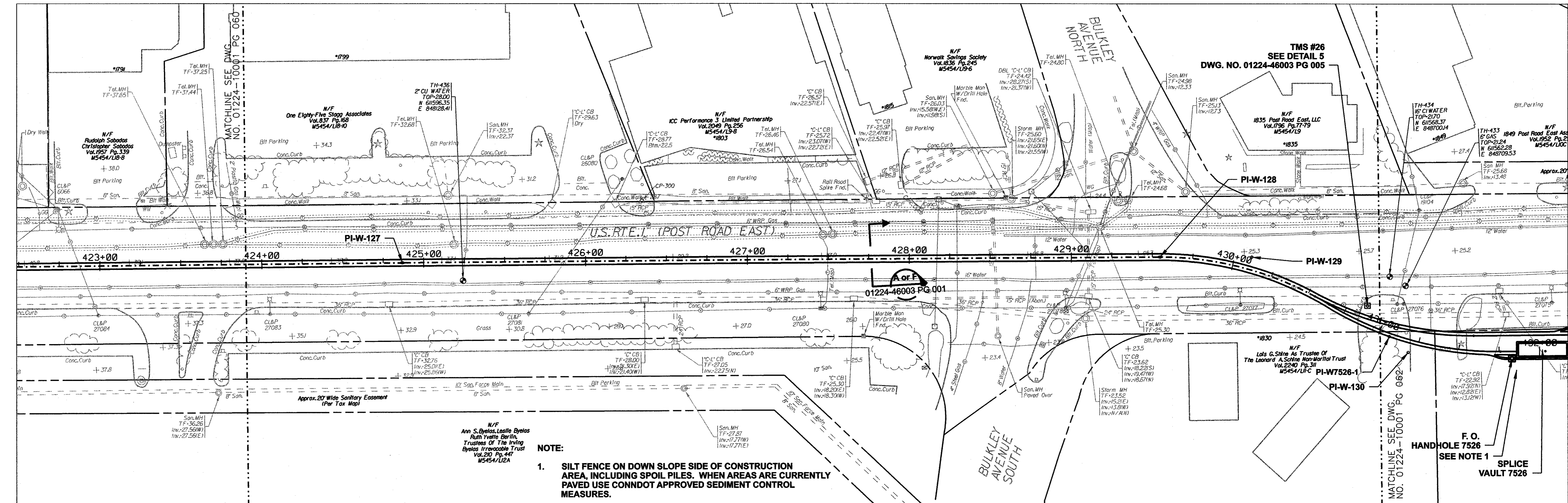
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FOR THE CONNECTICUT LIGHT & POWER COMPANY

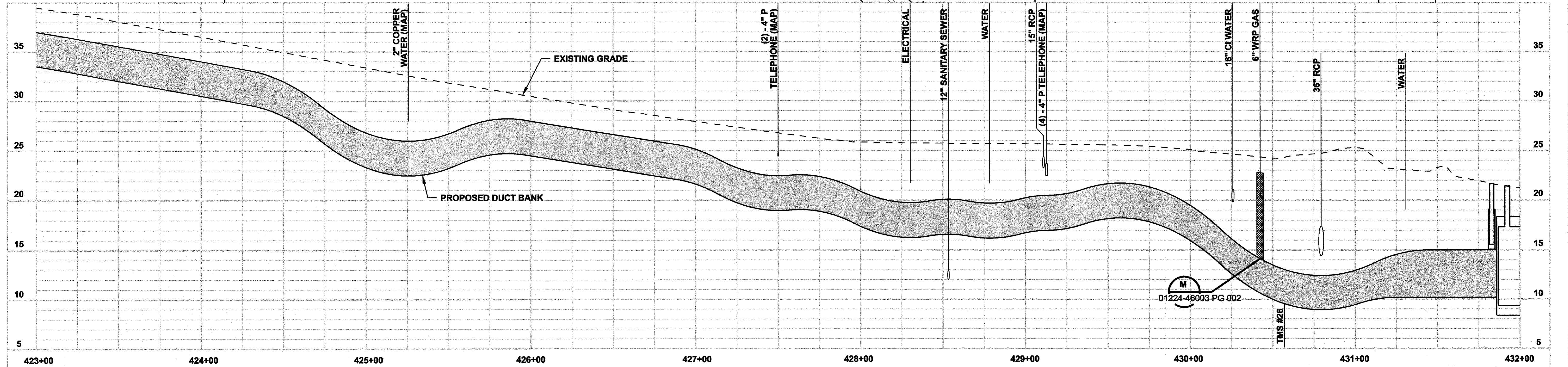
TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
PLAN AND PROFILE Sta. 416+00 to 425+00

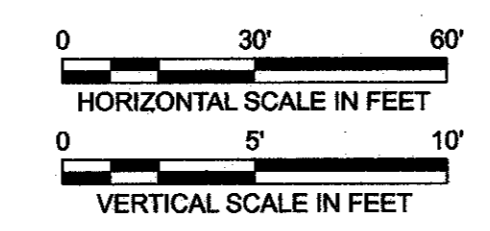
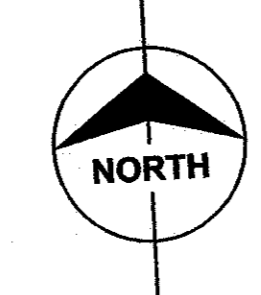
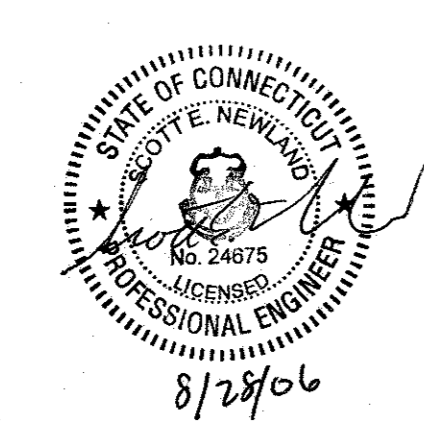
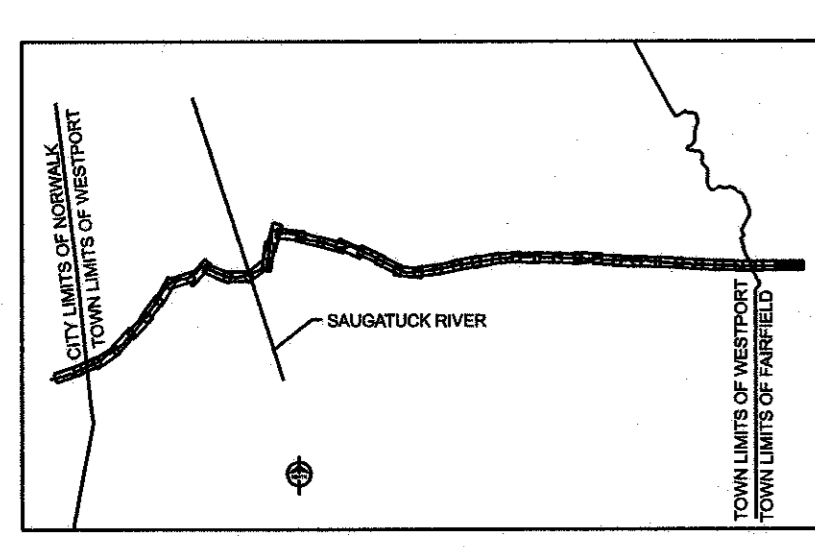
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DATE 11-10-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-10001 PG 060



NOTE:
 1. SILT FENCE ON DOWN SLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.



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date 11/10/05
 designed C. COURTRIGHT
 detailed L. ROWSE
 checked S. NEWLAND

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

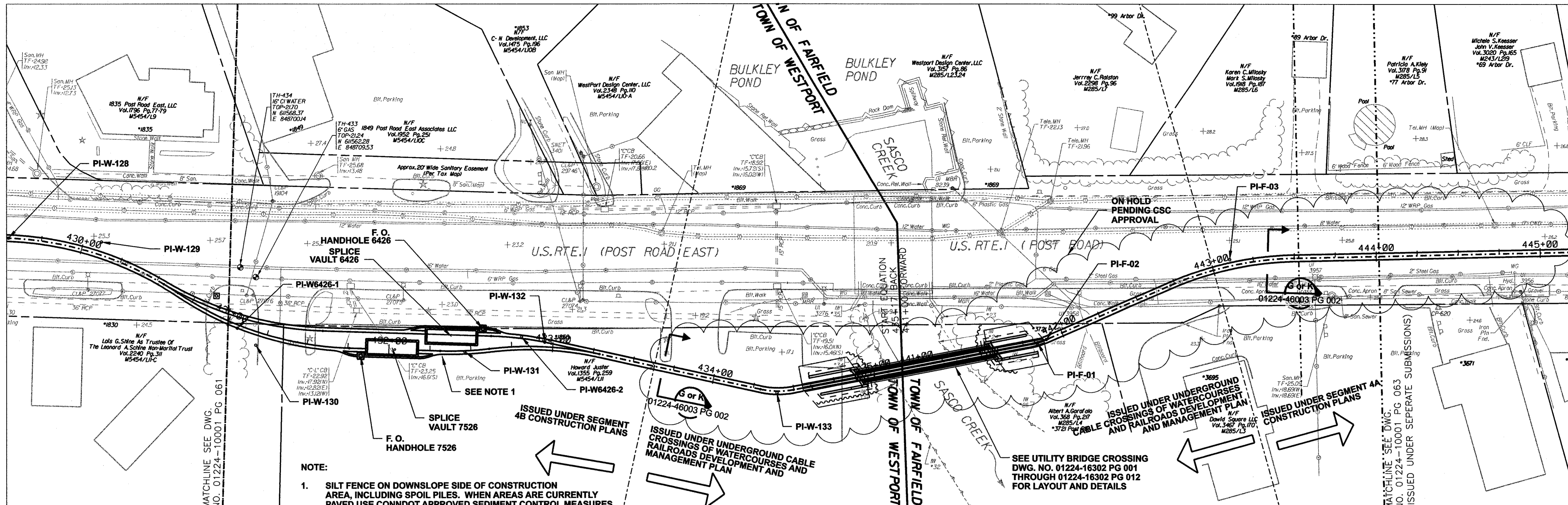
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TOWN OF WESTPORT
 PLAN AND PROFILE Sta. 423+00 to 432+00

BY SEN-BMCD	CHKD	APP	APP
DATE 11-10-05	DATE	DATE	DATE

SCALE AS NOTED

DWG. NO. 01224-10001 PG 061

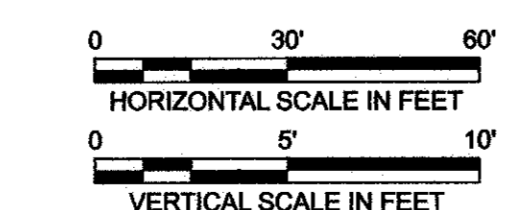
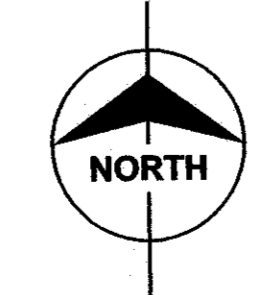
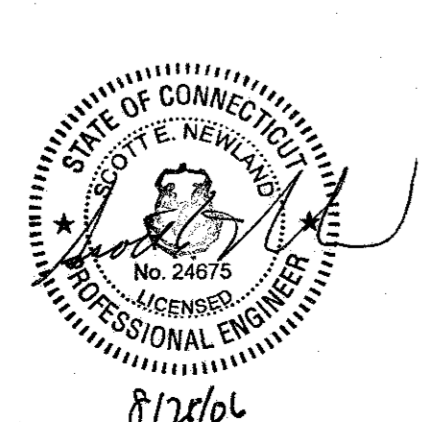
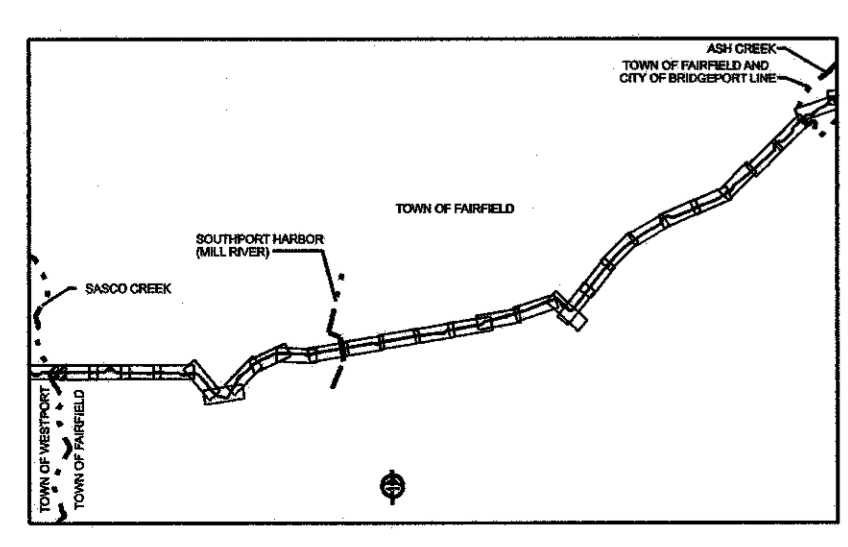
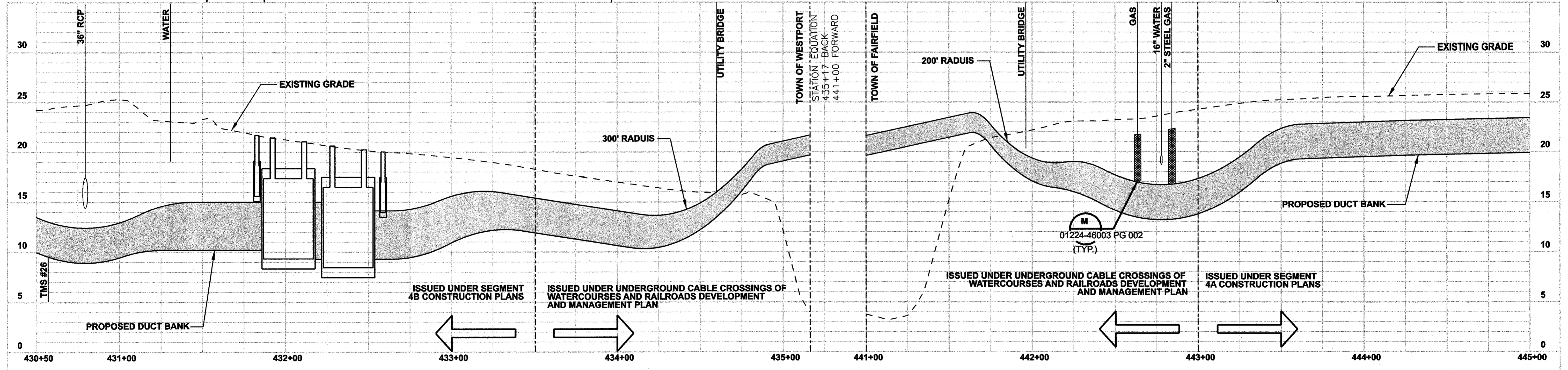


NOTE:
 1. SILT FENCE ON DOWNSLOPE SIDE OF CONSTRUCTION AREA, INCLUDING SPOIL PILES. WHEN AREAS ARE CURRENTLY PAVED USE CONDOT APPROVED SEDIMENT CONTROL MEASURES.

ISSUED UNDER UNDERGROUND CABLE CROSSINGS OF WATERCOURSES AND RAILROADS DEVELOPMENT AND MANAGEMENT PLAN

SEE UTILITY BRIDGE CROSSING DWG. NO. 01224-16302 PG 001 THROUGH 01224-16302 PG 012 FOR LAYOUT AND DETAILS

ISSUED UNDER SEGMENT 4A CONSTRUCTION PLANS



ISSUED FOR CONSTRUCTION

DOCKET No. 272

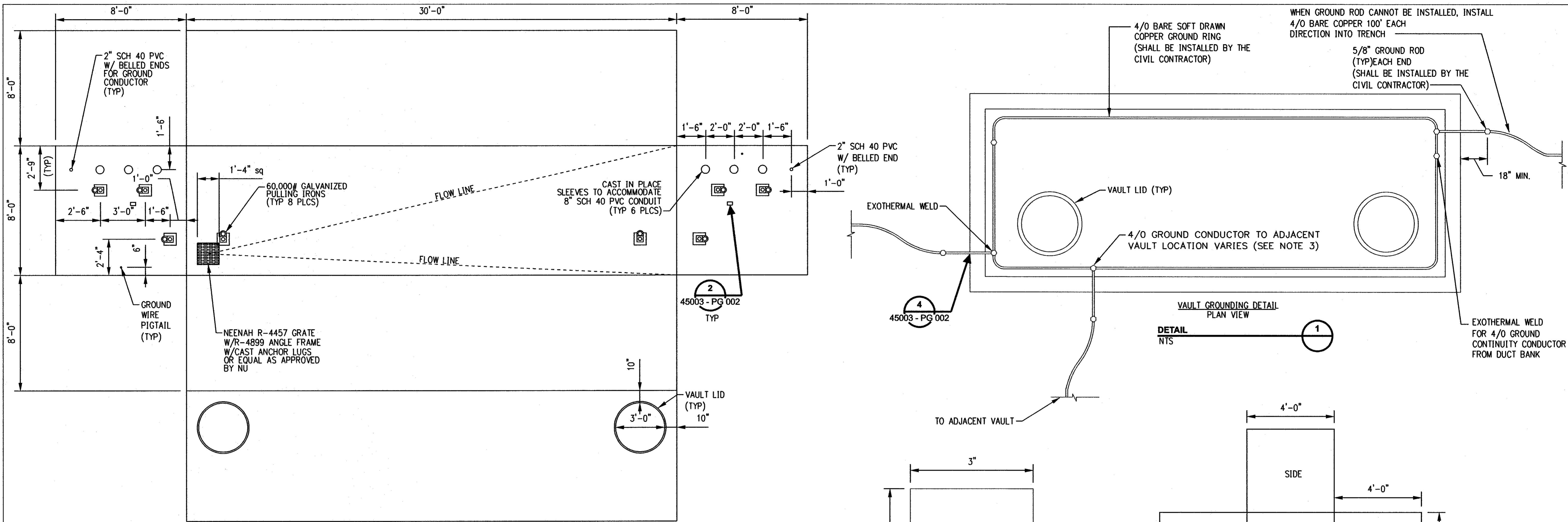


date 08/15/05
 detailed L. ROWSE
 designed C. COURTRIGHT
 checked S. NEWLAND

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

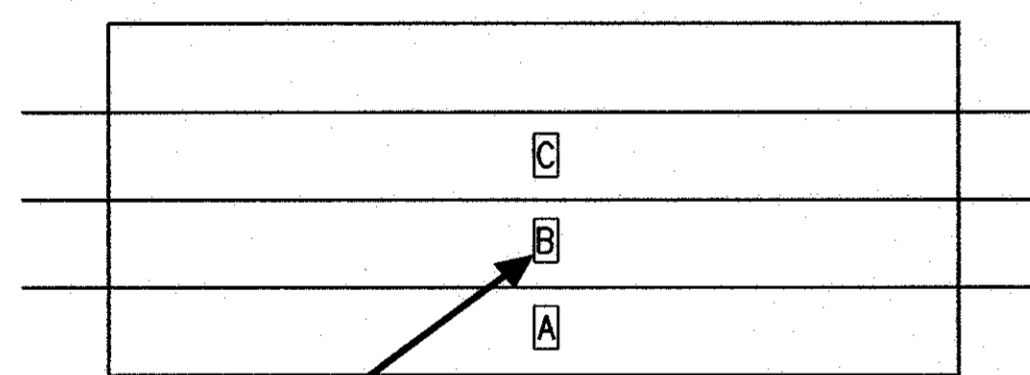
NORTHEAST UTILITIES SERVICE CO.			
FOR	THE CONNECTICUT LIGHT & POWER COMPANY		
TITLE	MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT		
TOWN OF WESTPORT/TOWN OF FAIRFIELD PLAN AND PROFILE Sta. 430+50 to 445+00			
BY SEN-BMCD	CHKD	APP	APP
DATE 8-15-05	DATE	DATE	DATE
SCALE AS NOTED	D		DWG. NO. 01224-10001 PG 062

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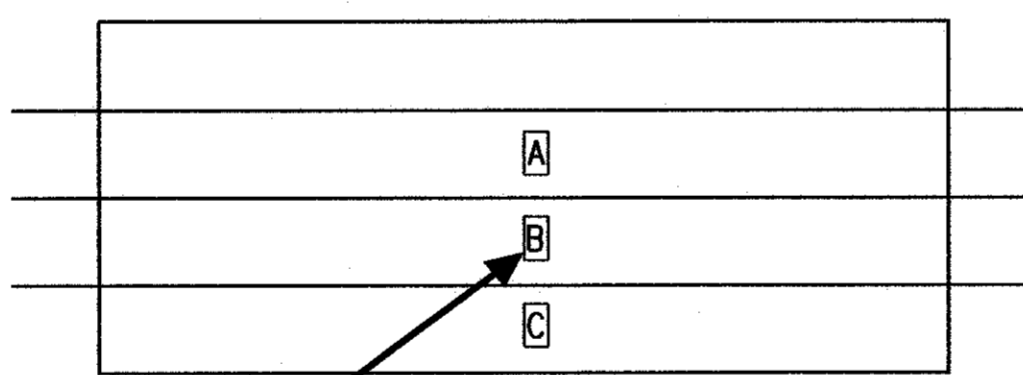


TYPICAL SPLICE VAULT DEVELOPMENT PLAN

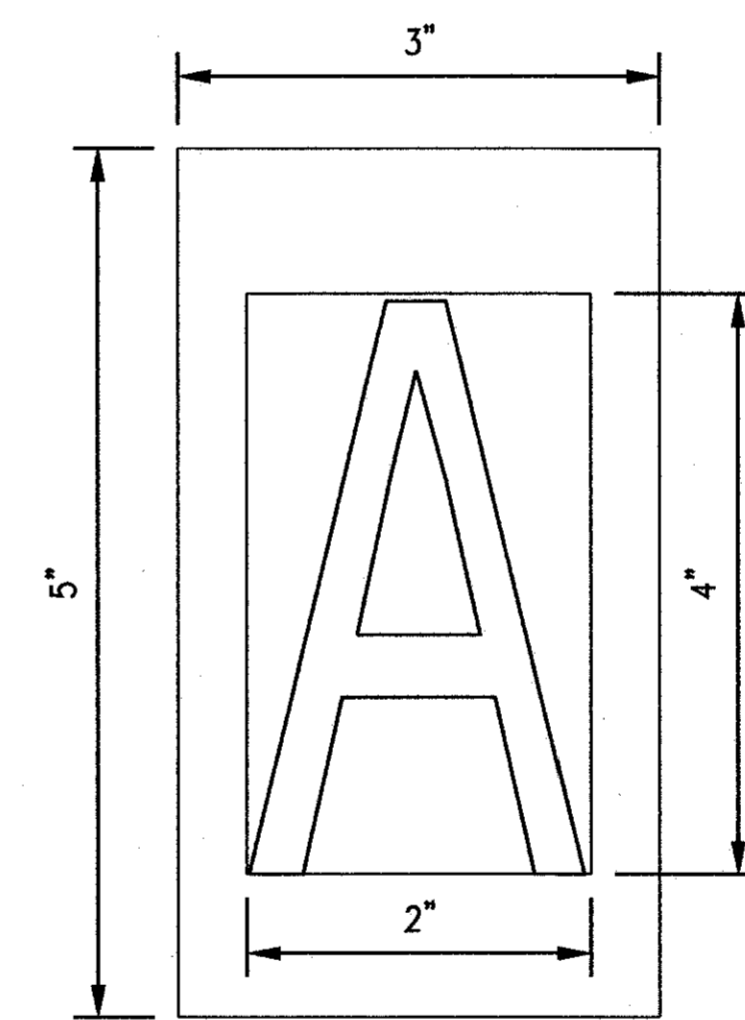
DETAIL 5
NTS



2 SPLICE VAULT PHASING
VAULTS 6400, 6401, 6402...6449



2 SPLICE VAULT PHASING
VAULTS 7500, 7501, 7502...7549



TYPICAL FIBER OPTIC HANDHOLE DEVELOPMENT PLAN

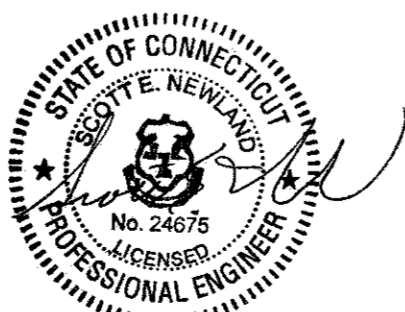
DETAIL 3
NTS

- NOTES:
1. CHARACTER SHALL BE 4" HIGH BOLD TYPE.
 2. CHARACTER SHALL BE CENTERED ON SIGN.
 3. BACKGROUND: WHITE
LETTERING: BLACK
CHARACTERS: A, B & C AS SHOWN
 4. ELECTRICAL CONTRACTOR SHALL ATTACH TAG TO SPLICE.

DETAIL 2
NTS

- NOTES:
1. GROUND PIGTAILS TO EXTEND A MINIMUM OF 18 INCHES FROM BOTH SIDES OF VAULT WALL PENETRATION.
 2. ALL EXTERNAL AREAS OF VAULT SHALL BE SEALED USING SONNEDORN HYDROCID 700 OR APPROVED NU EQUIVALENT.
 3. EACH VAULT SHALL HAVE AN ADDITIONAL 2" SCHEDULE 40 PVC WITH BELLED ENDS CAST IN PLACE TO CONNECT INTERNAL VAULT GROUNDING AND COMPLETE CONNECTION WITH EXOTHERMAL WELD.

DETAIL 6
NTS



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CONSTRUCTION

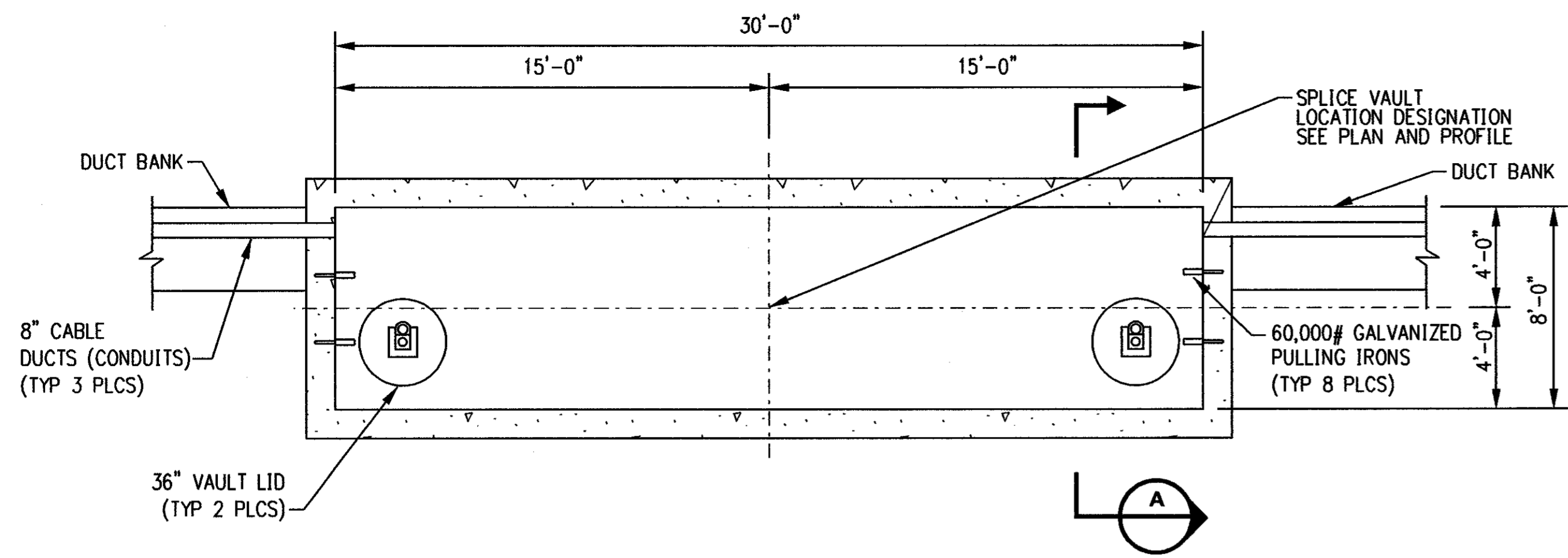
DOCKET No. 272

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

Burns & McDonnell SINCE 1898	
date	11/09/05
detailed	L. ROWSE
designed	C. COURTRIGHT
checked	S. NEWLAND

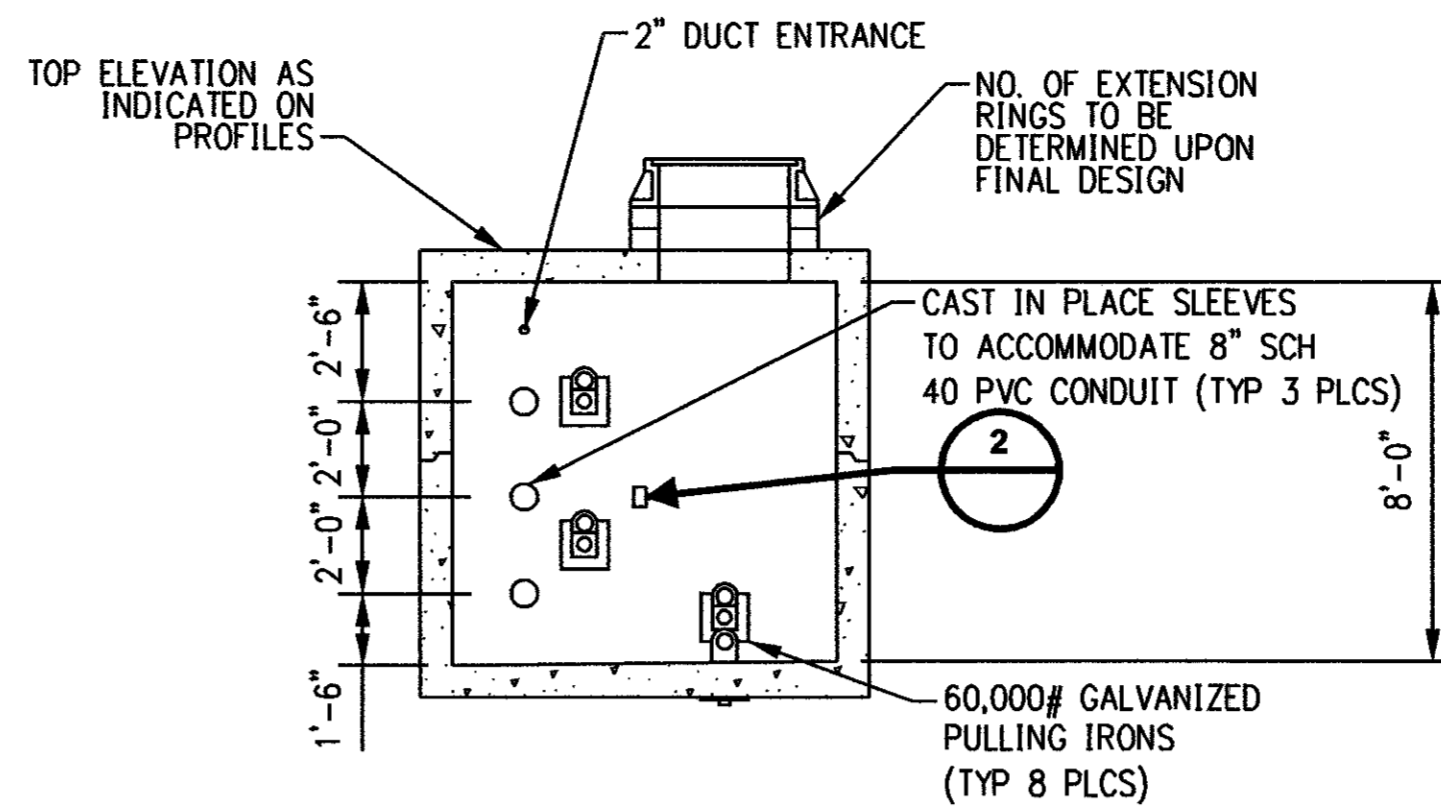
MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.			
FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT			
VAULT, GROUNDING AND HANDHOLE DETAILS			
BY SEN-EMCD	CHKD	APP	APP
DATE 11-09-05	DATE	DATE	DATE
SCALE AS NOTED		DWG. NO.	01224-45003 PG 001



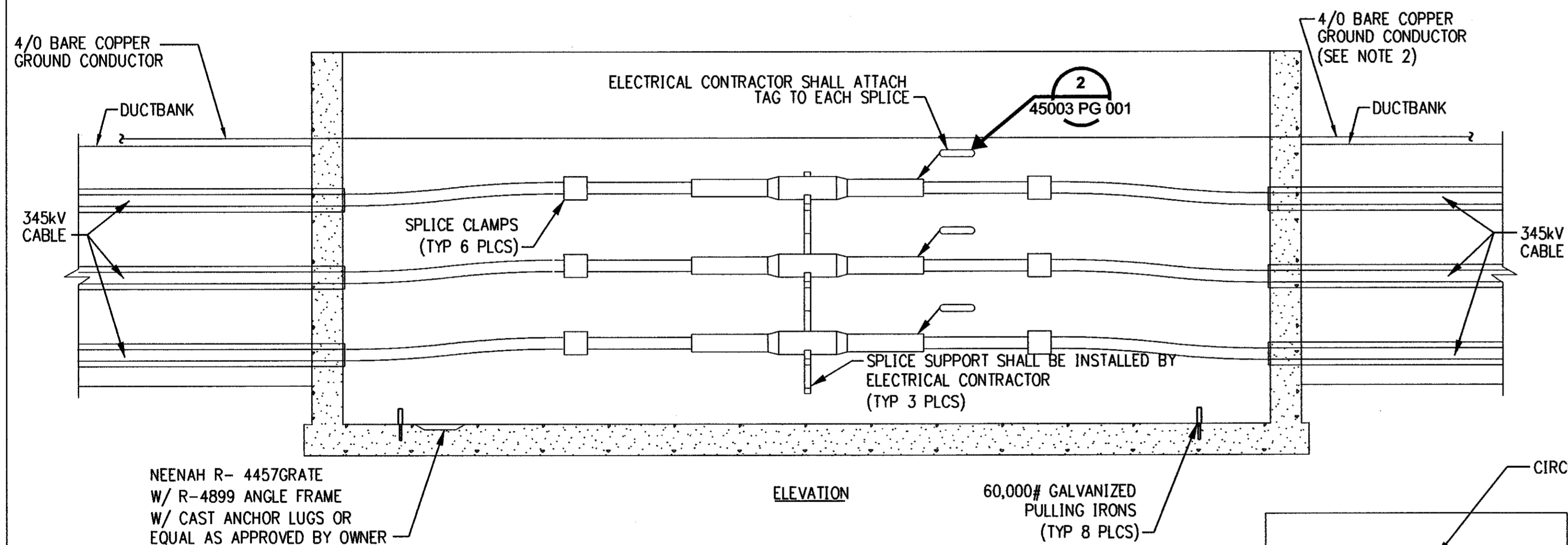
INTERIOR PLAN ELECTRICAL SPLICE VAULT

DETAIL NTS 1



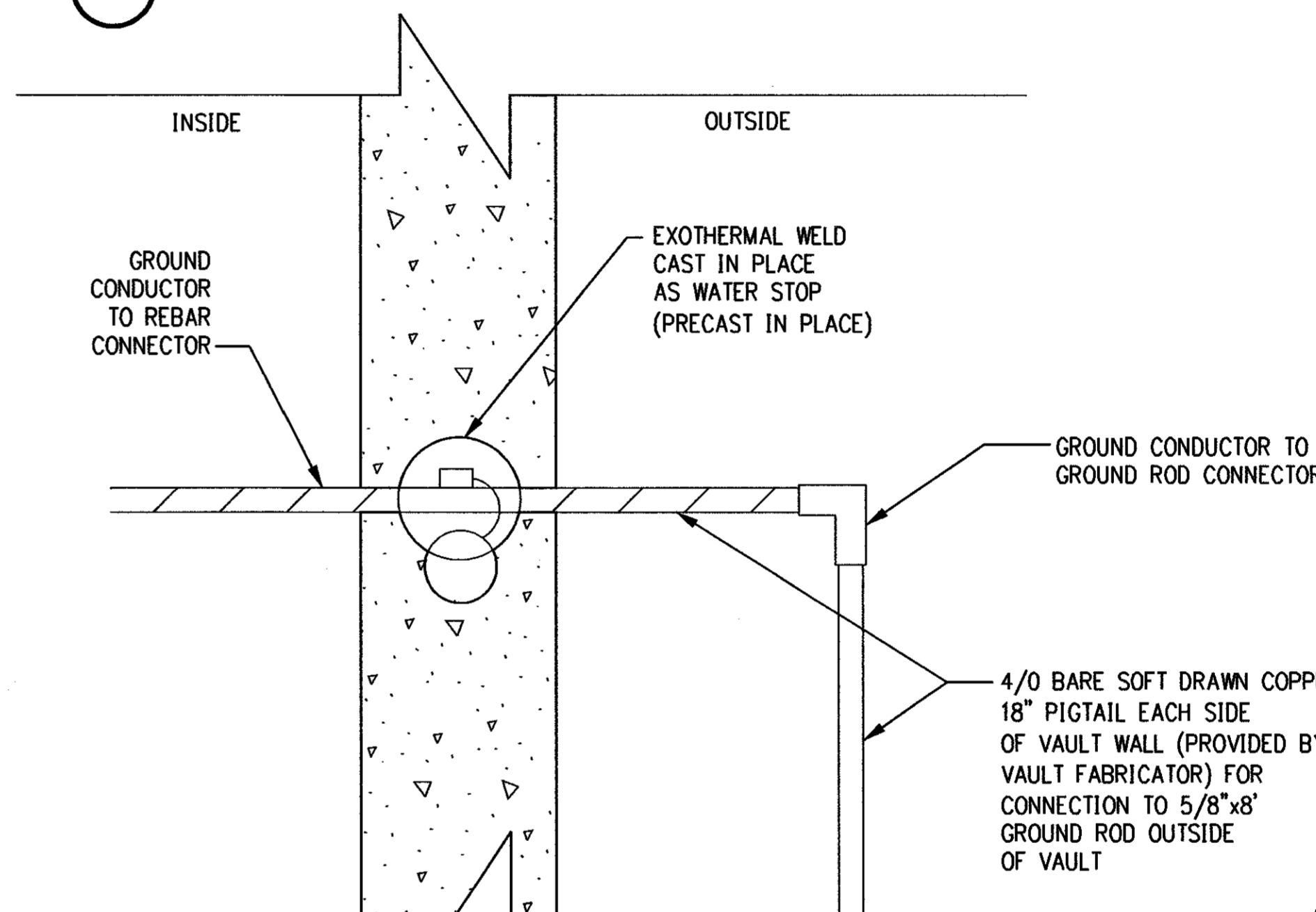
SPLICE VAULT

SECTION NTS A



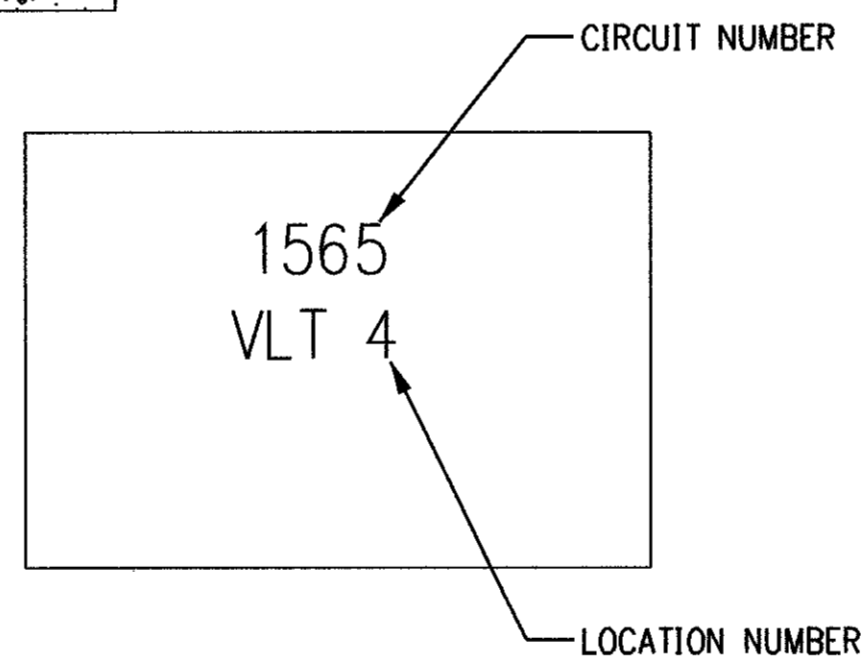
ELEVATION

SPLICE VAULT
DETAIL NTS 3



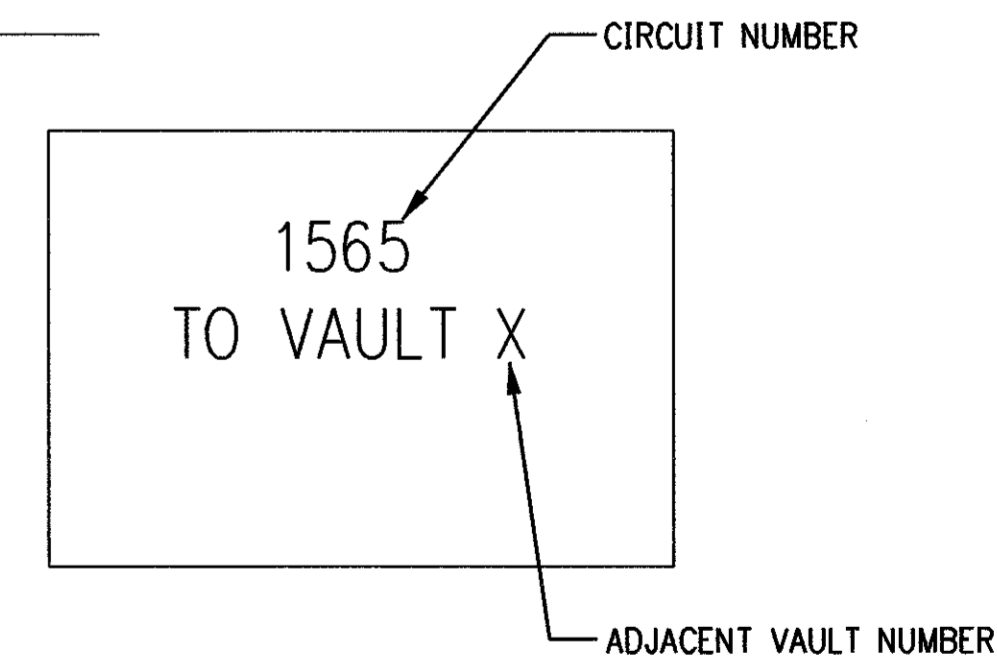
GROUND WIRE DETAIL
PROFILE VIEW

DETAIL NTS 4



PROFILE VIEW

DETAIL NTS 5



PROFILE VIEW

DETAIL NTS 2

NOTES:

- PASS GROUND CONDUCTOR THROUGH VAULT WALL AND SUPPORT ALONG VAULT WALL.
- BOND GROUNDS FROM EARTHING TO VAULT/ DUCTBANK GROUND.

CIVIL CONTRACTOR SHALL ATTACH TAG 1'-6" BELOW FINISHED GRADE ON THE INSIDE OF THE EXTENSION RINGS AND ON THE VAULT WALL OPPOSITE THE RACKING

CIVIL CONTRACTOR SHALL ATTACH TAG TO EACH ENDWALL DESIGNATING NEXT ADJACENT VAULT IN CIRCUIT

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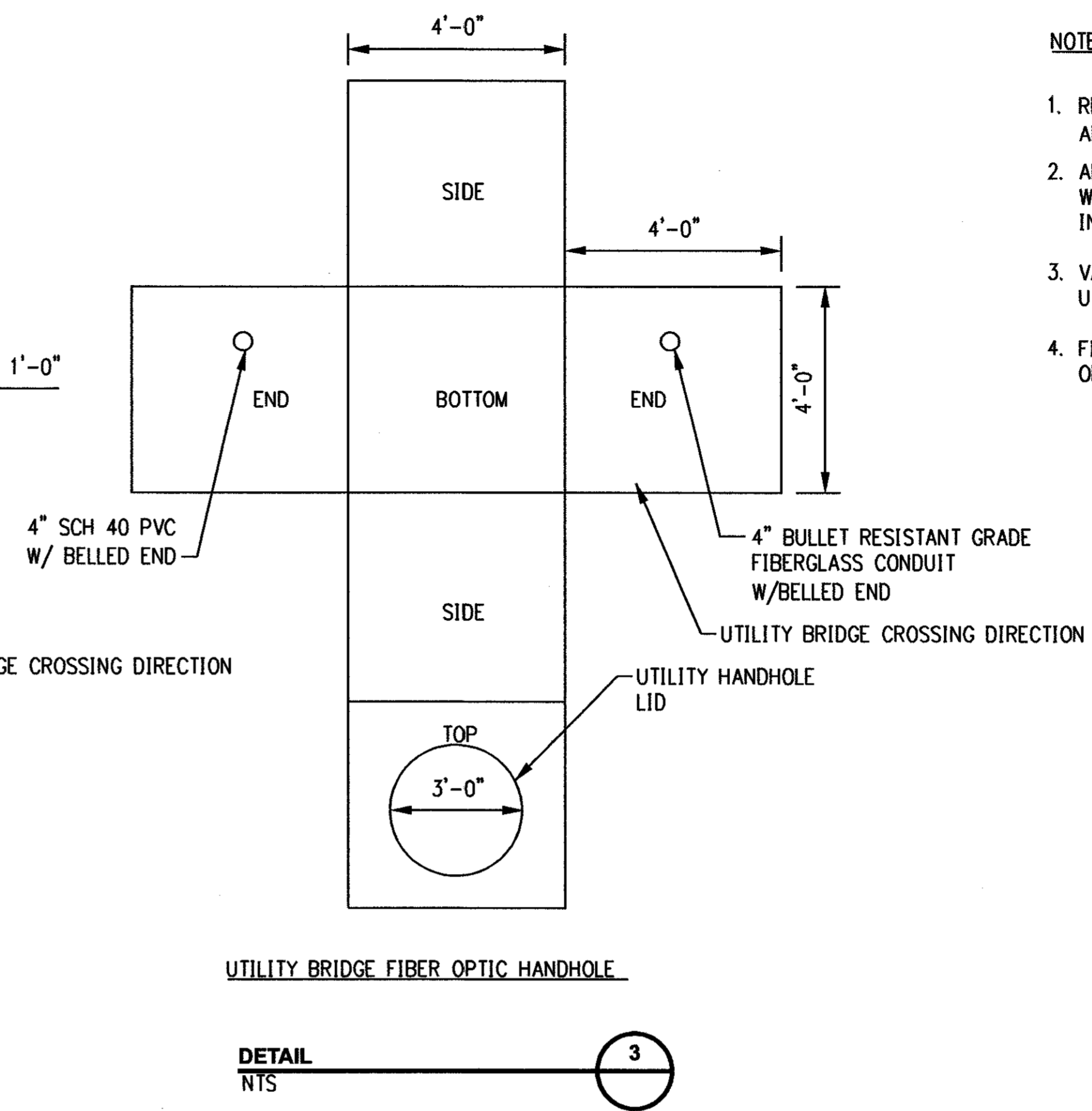
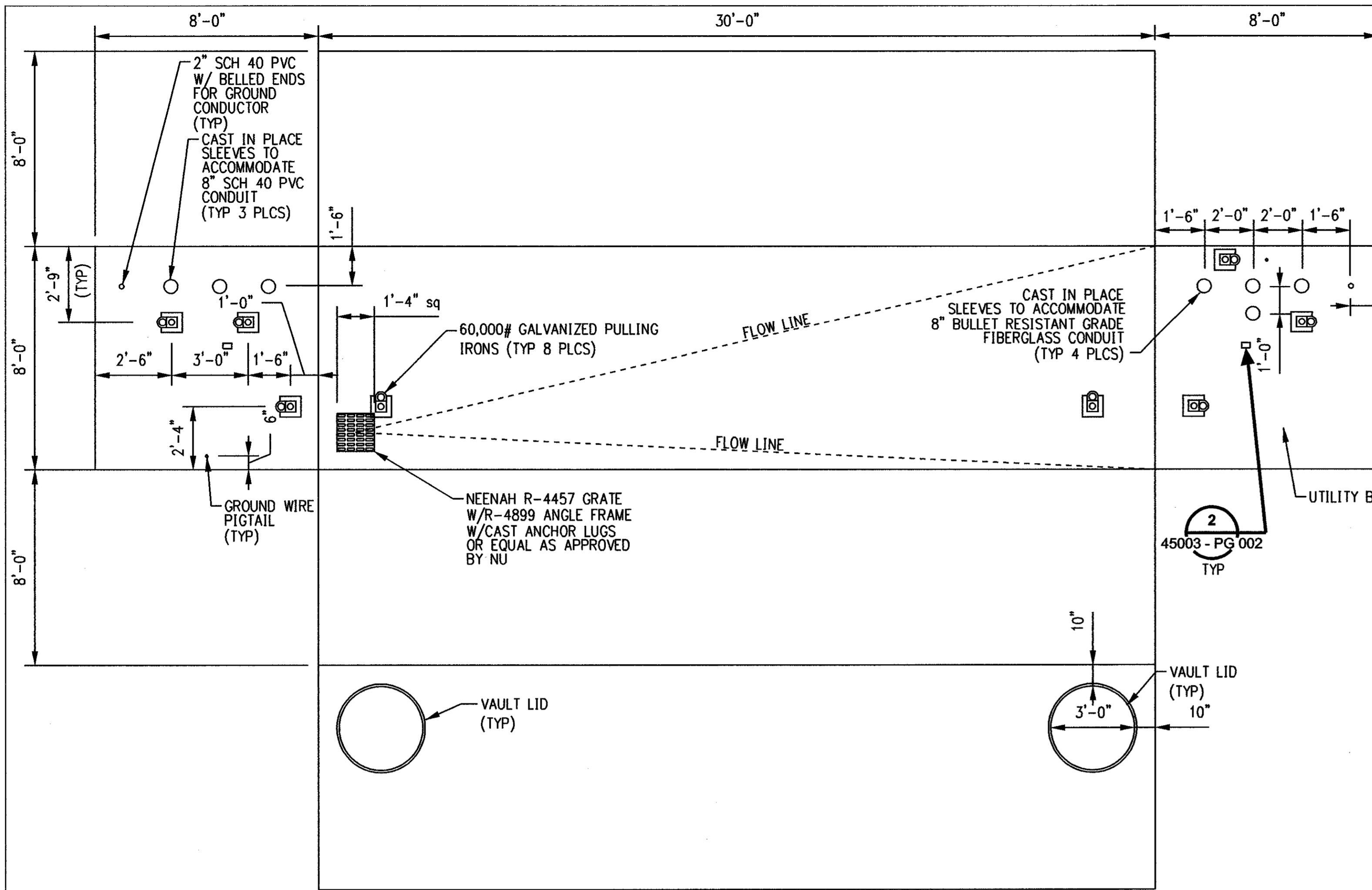
<p>1 8/28/06 ISSUED FOR CONSTRUCTION CTC</p>				<p>date 11/09/05 detailed L. ROWSE</p>				<p>BY SEN-BMCD CHKD APP APP</p>			
<p>no. date revisions by chk</p>				<p>designed C. COURTRIGHT checked S. NEWLAND</p>				<p>DATE 11-09-05 DATE DATE DATE</p>			
								<p>SCALE AS NOTED</p>			
								<p>D DWG. NO. 01224-45003 PG 002</p>			

NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT

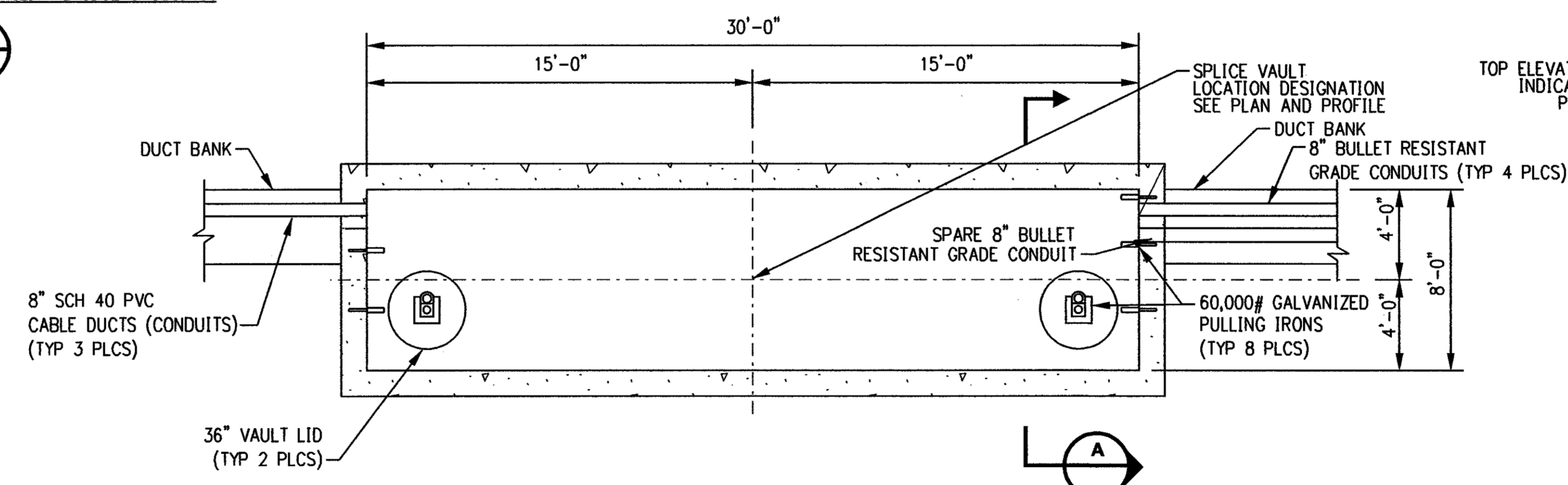
VAULT AND GROUNDING DETAILS



- NOTES:**
1. REBAR WITHIN SPLICE CHAMBER WALLS SHALL NOT FORM A LOOP AROUND ANY 8" CONDUIT OPENING.
 2. ALL UNUSED CONDUITS SHALL BE PLUGGED AND SEALED USING WATERTIGHT DUCT PLUGS AS MANUFACTURED BY JACKMOON USA, INC. OR ACCEPTABLE EQUAL.
 3. VAULT ENDS HAVING FIBERGLASS SPARE DUCTS ARE ORIENTED TOWARD UTILITY BRIDGES.
 4. FIBER OPTIC HANDHOLES HAVING FIBERGLASS BELLED ENDS SHALL BE ORIENTED TOWARD THE UTILITY BRIDGE.

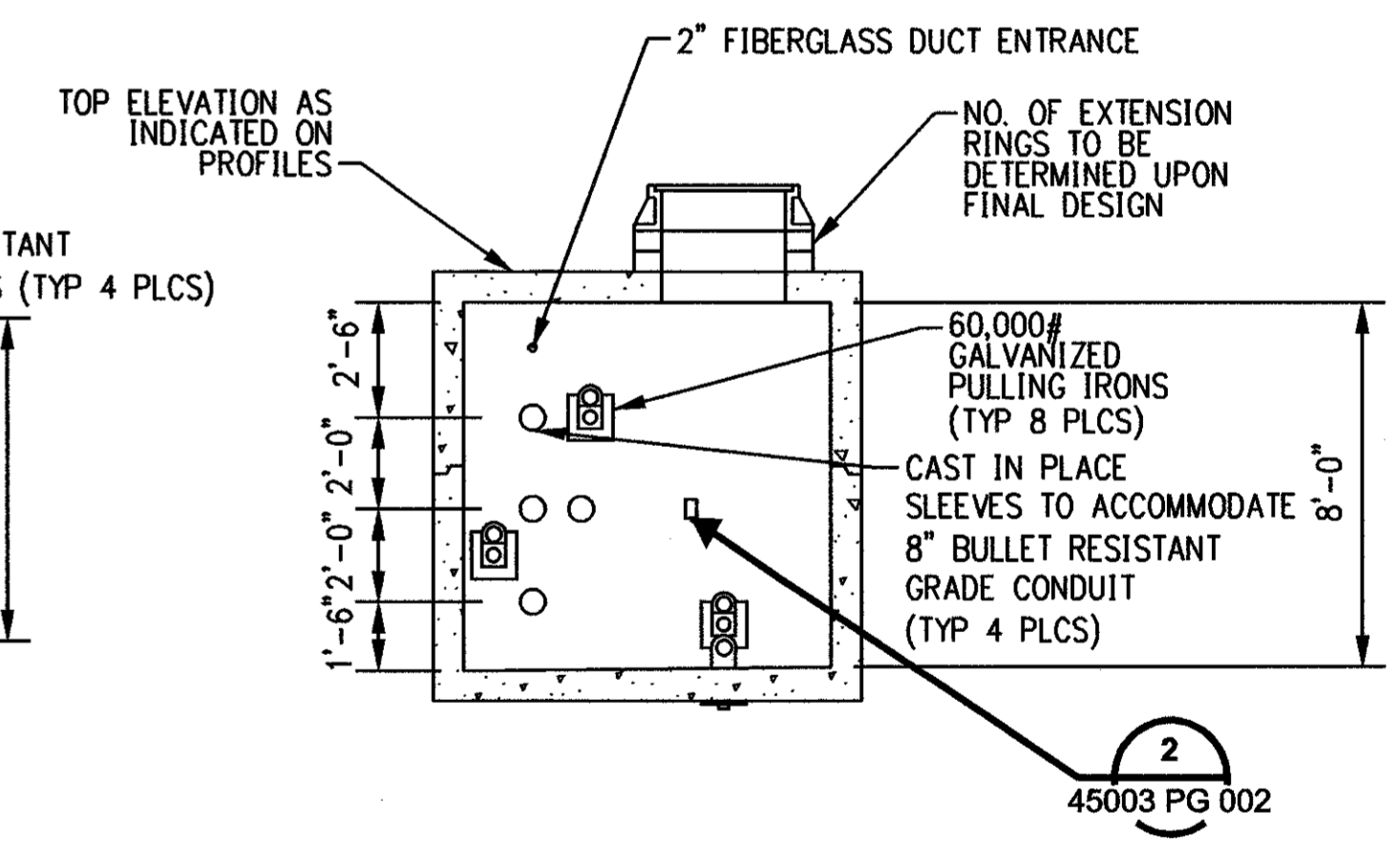
SPLICE VAULT DEVELOPMENT PLAN FOR VAULTS ADJACENT TO UTILITY BRIDGE CROSSINGS

DETAIL 2
NTS



INTERIOR PLAN OF ELECTRICAL SPLICE VAULTS ADJACENT TO UTILITY BRIDGE CROSSINGS

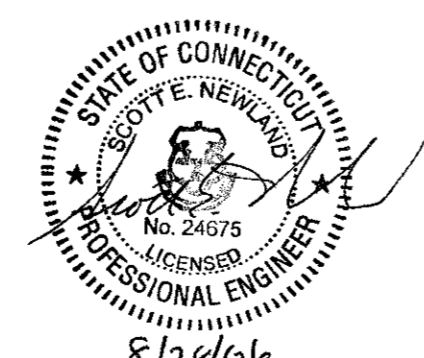
DETAIL 1
NTS



UTILITY BRIDGE SPLICE VAULT

SECTION A
NTS

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Burns & McDonnell
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date 05/05/06 detailed L. ROWSE
designed C. COURTRIGHT checked S. NEWLAND

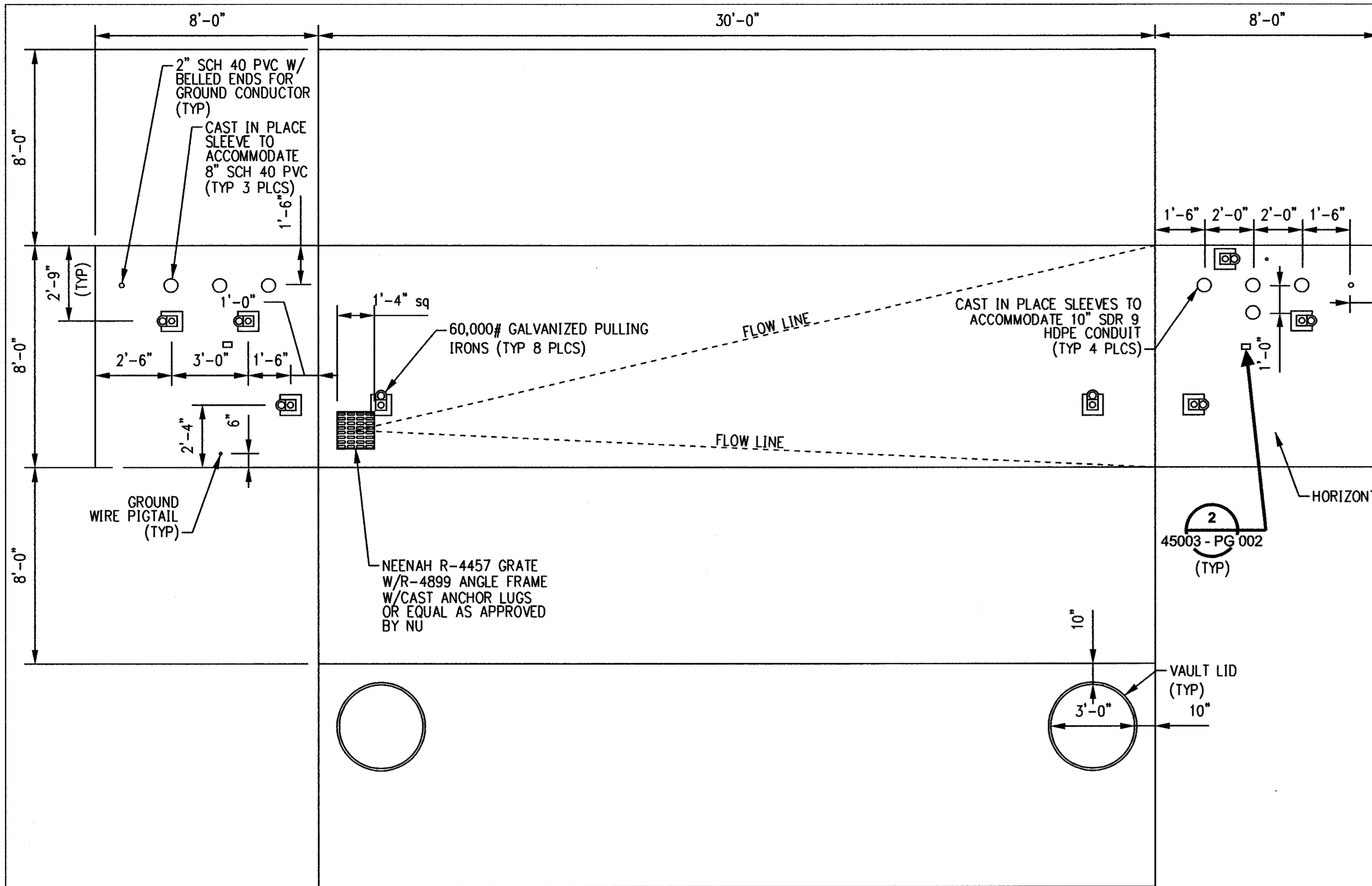
MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

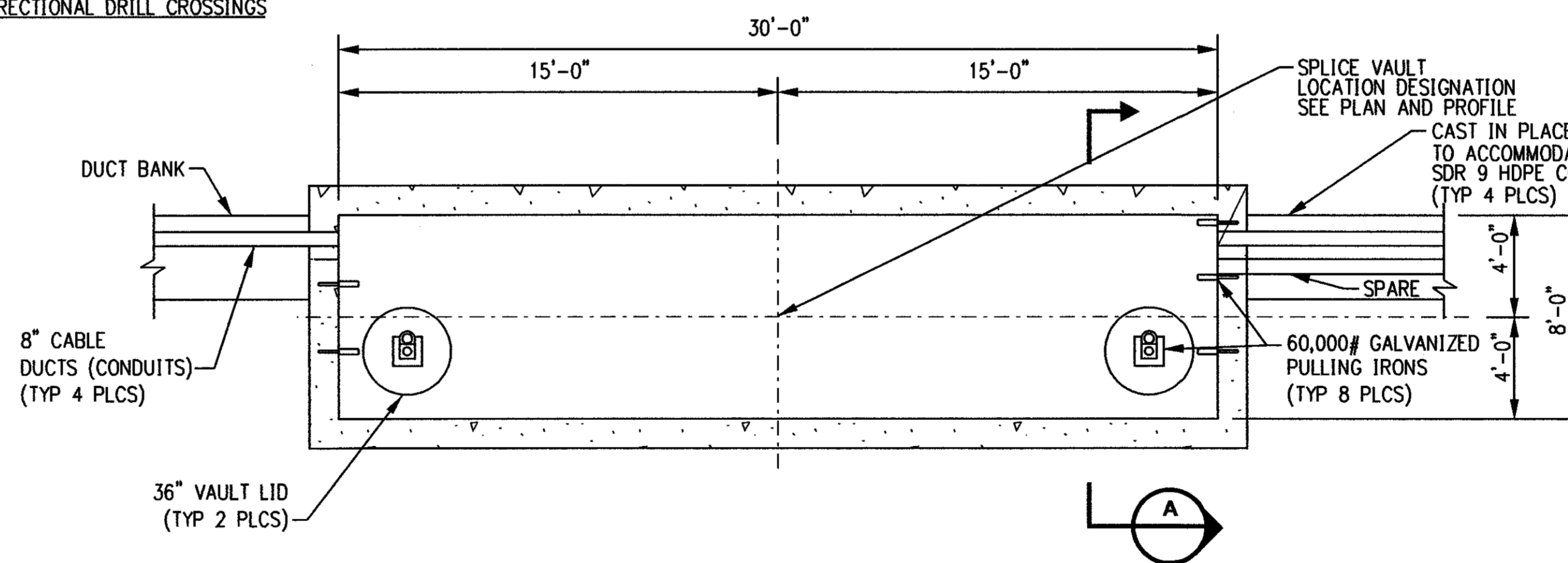
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
UTILITY BRIDGE SPLICE VAULT DETAILS

BY SEN-BMCD	CHKD	APP	APP
DATE 5-05-06	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO. 01224-45003 PG 003	



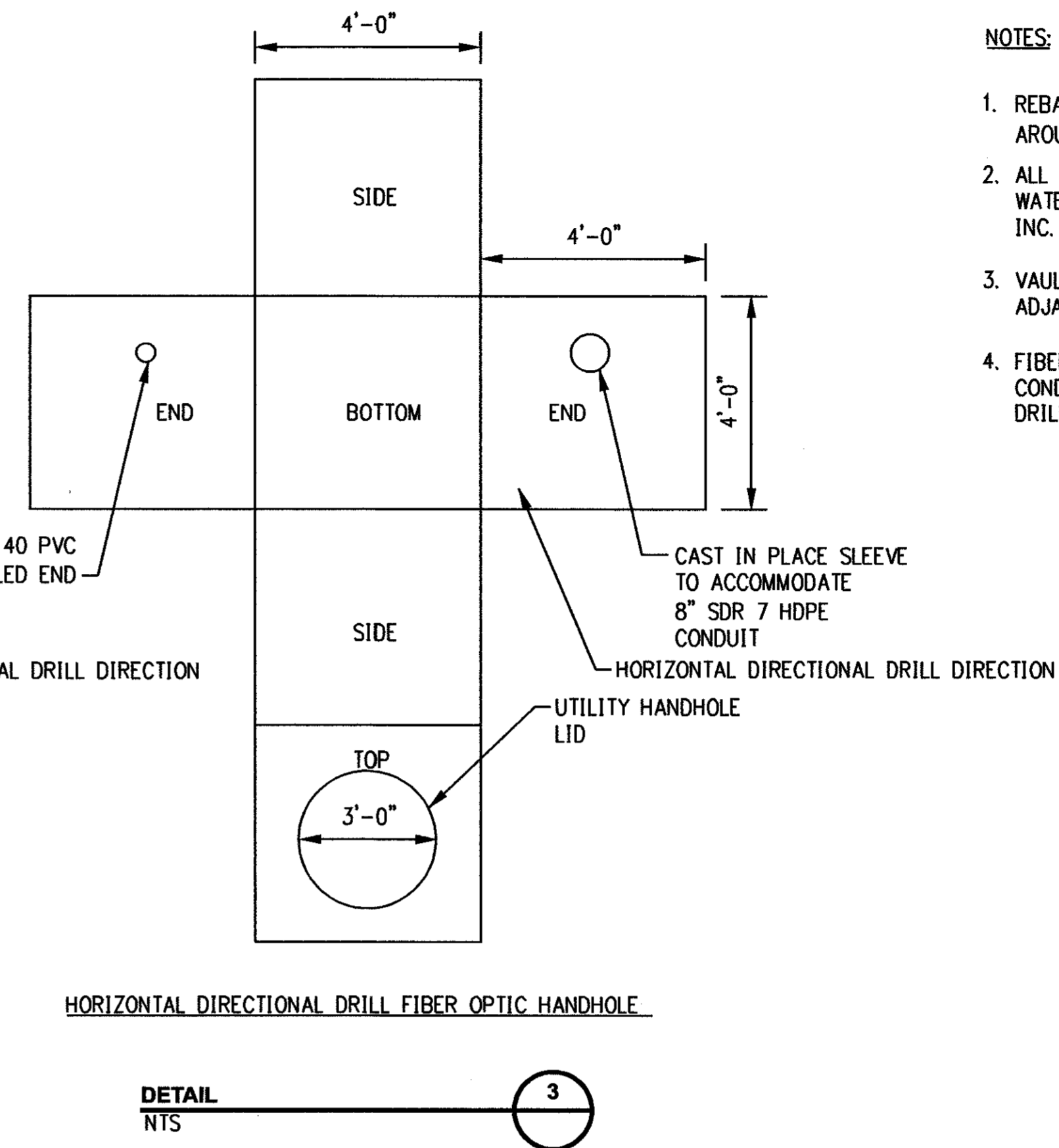
SPlice VAULT DEVELOPMENT PLAN FOR VAULTS ADJACENT TO HORIZONTAL DIRECTIONAL DRILL CROSSINGS

DETAIL
NTS



INTERIOR PLAN OF ELECTRICAL SPlice VAULTS
ADJACENT TO HORIZONTAL DIRECTIONAL DRILL CROSSINGS

DETAIL
NTS

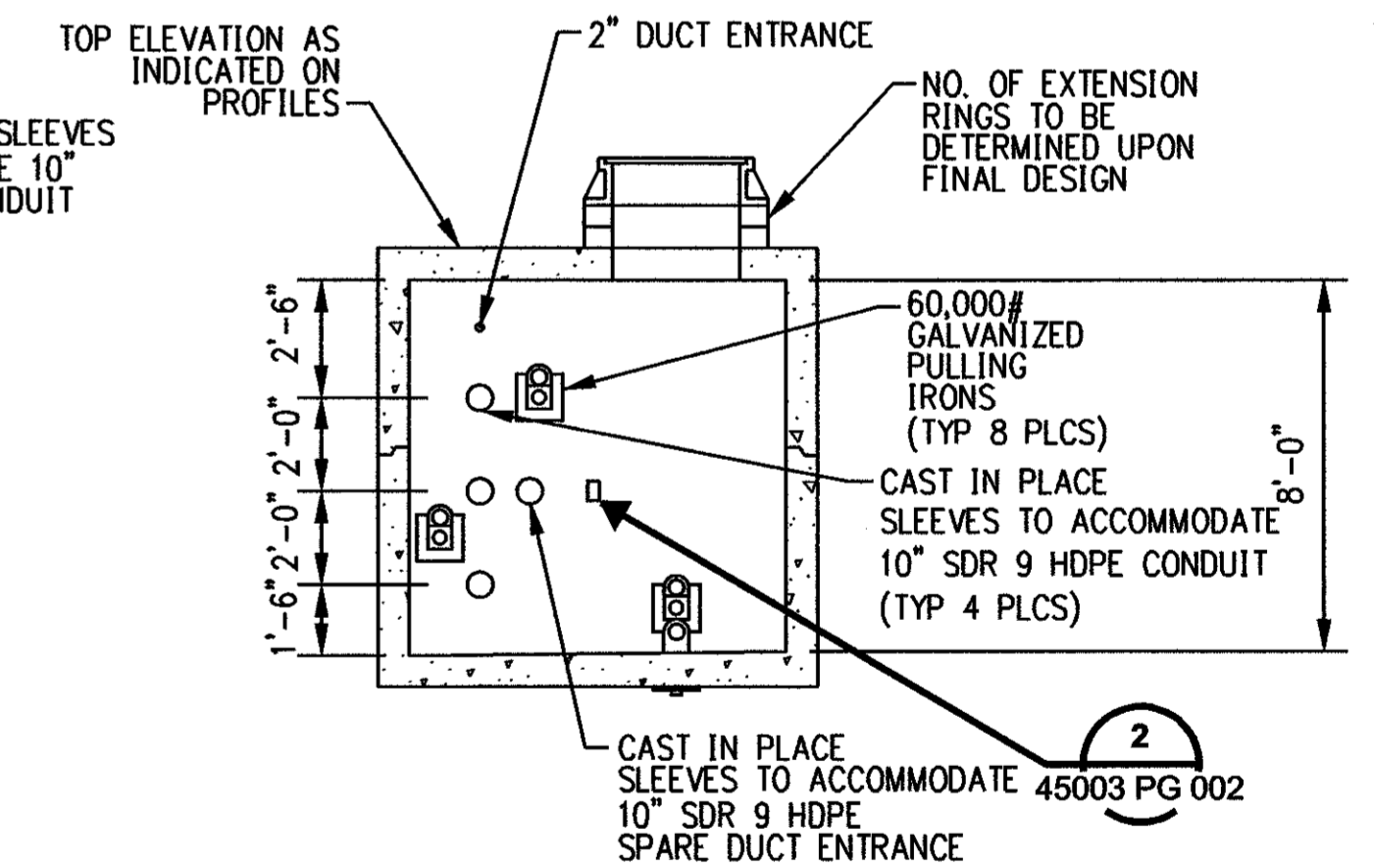


HORIZONTAL DIRECTIONAL DRILL SPlice VAULT

DETAIL
NTS

NOTES:

1. REBAR WITHIN SPlice CHAMBER WALLS SHALL NOT FORM A LOOP AROUND ANY 8" CONDUIT OPENING.
2. ALL UNUSED CONDUITS SHALL BE PLUGGED AND SEALED USING WATERTIGHT DUCT PLUGS AS MANUFACTURED BY JACKMOON USA, INC. OR ACCEPTABLE EQUAL.
3. VAULT ENDS HAVING HDPE SPARE DUCTS ARE ORIENTED TOWARD ADJACENT HORIZONTAL DIRECTIONAL DRILL CROSSINGS.
4. FIBER OPTIC HANDHOLES HAVING SLEEVES TO ACCOMMODATE HDPE CONDUITS SHALL BE ORIENTED TOWARD THE HORIZONTAL DIRECTIONAL DRILL.



HORIZONTAL DIRECTIONAL DRILL SPlice VAULT

SECTION
NTS

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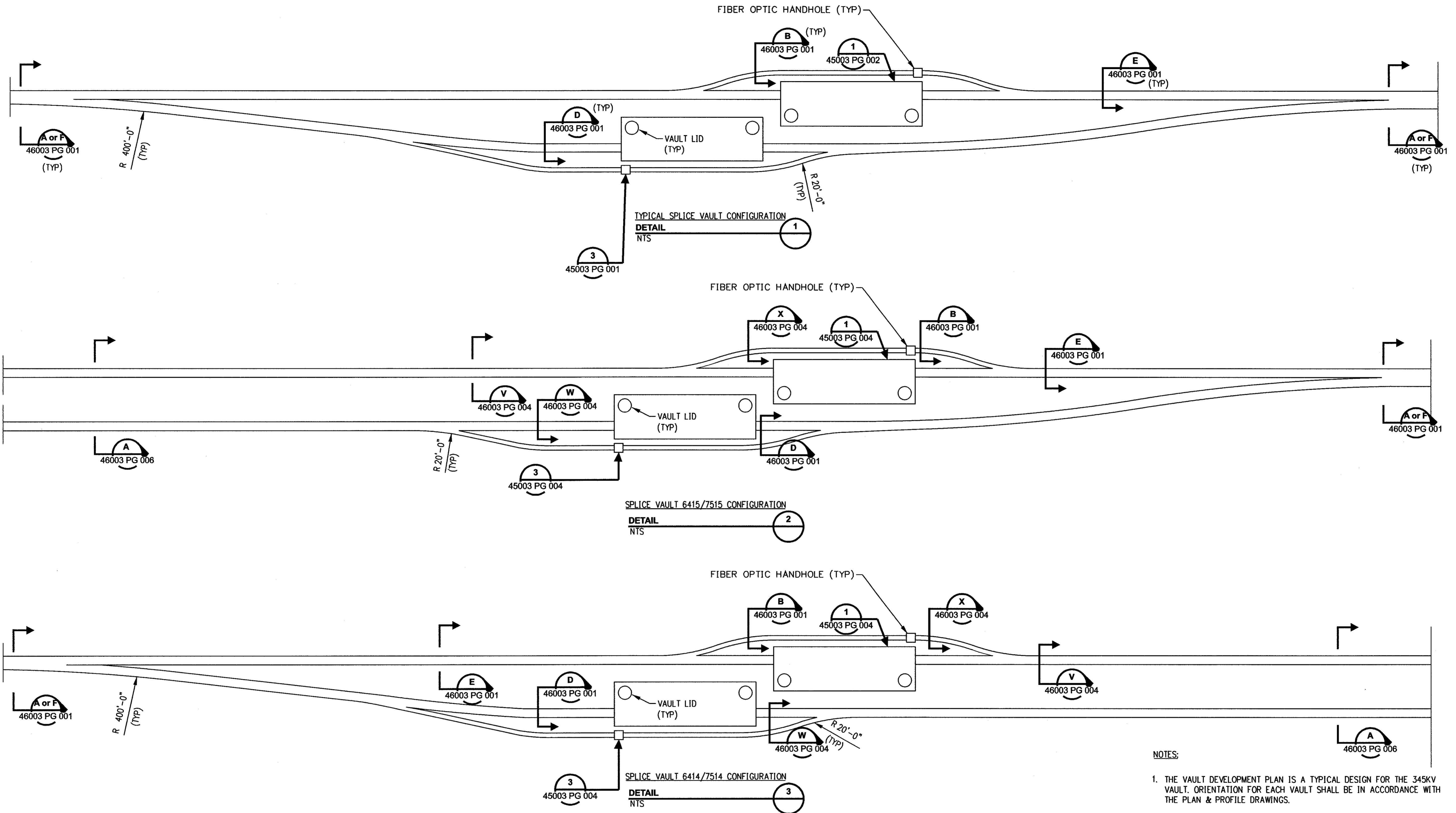
no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

Burns & McDonnell SINCE 1898	
date	05/05/06
designed	C. COURTRIGHT
detailed	L. ROWSE
checked	S. NEWLAND

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.			
FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT			
HORIZONTAL DIRECTIONAL DRILL SPlice VAULT DETAILS			
BY SEN-BMCD	CHKD	APP	APP
DATE 5-05-06	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-45003 PG 004

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NOTES:
 1. THE VAULT DEVELOPMENT PLAN IS A TYPICAL DESIGN FOR THE 345KV VAULT. ORIENTATION FOR EACH VAULT SHALL BE IN ACCORDANCE WITH THE PLAN & PROFILE DRAWINGS.



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1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

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date 07/14/06 detailed L. ROWSE
 designed C. COURTRIGHT checked S. NEWLAND

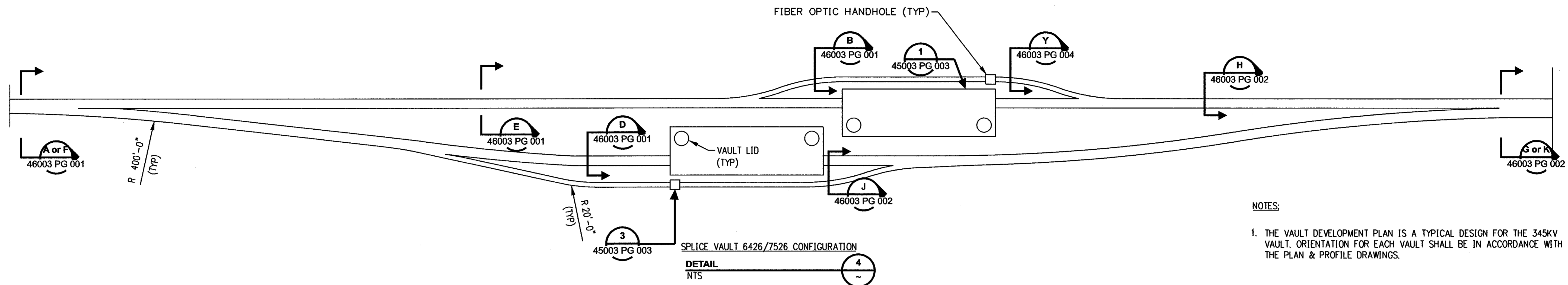
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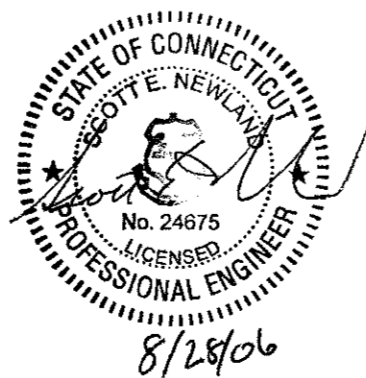
FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
 TYPICAL/CROSSING SPLICE VAULT DETAILS
 SEGMENT 4B

BY SEN-BMCD	CHKD	APP	APP
DATE 7-14-06	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-45003 PG 007



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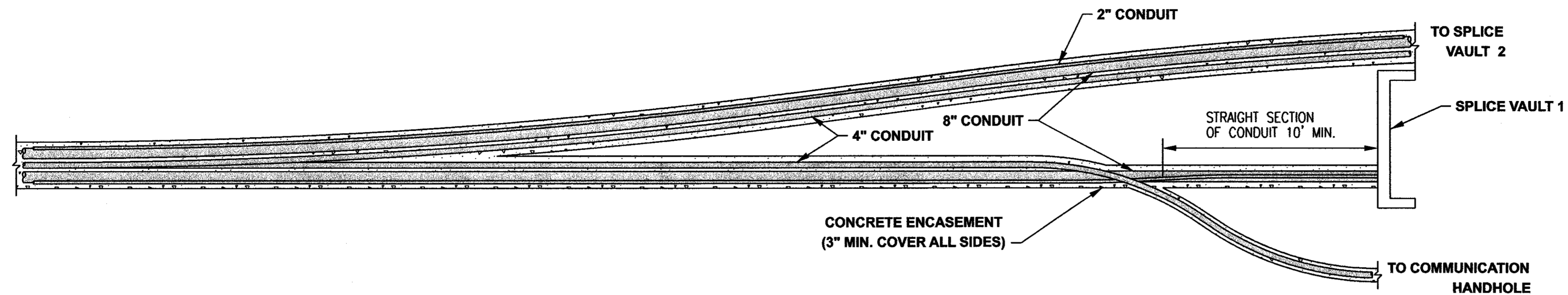
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1	9/28/06	ISSUED FOR CONSTRUCTION	CTC	

Burns & McDonnell SINCE 1898	
date	06/15/06
designed	C. COURTRIGHT
detailed	L. ROWSE
checked	S. NEWLAND

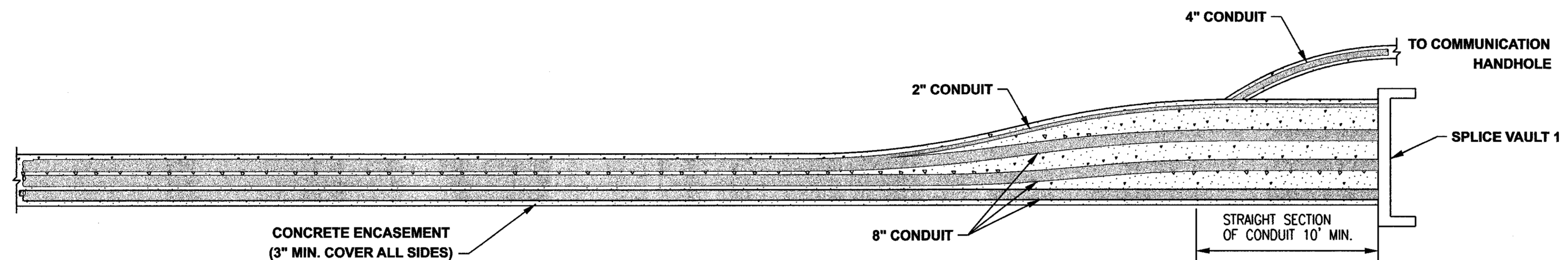
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NORTHEAST UTILITIES SERVICE CO.			
FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT CROSSING SPLICE VAULT DETAILS SEGMENT 4B			
BY SEN-BMCD	CHKD	APP	APP
DATE 6-15-06	DATE	DATE	DATE
SCALE AS NOTED		D	DWC. NO. 01224-45003 PG 008

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PLAN



PROFILE

DUCT BANK CONDUIT TRANSITION
 DETAIL 1

DOCKET No. 272

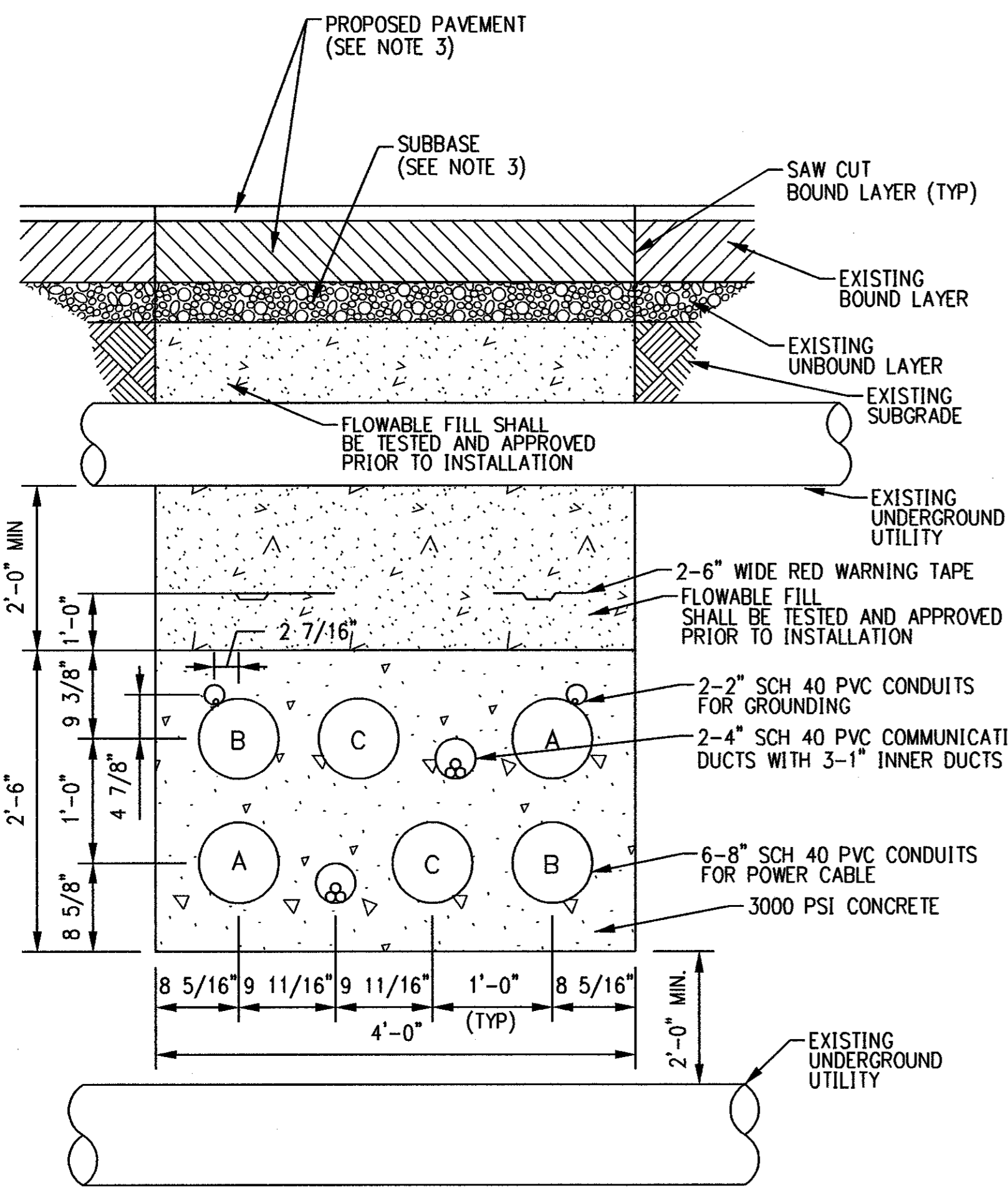
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MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

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 FOR THE CONNECTICUT LIGHT & POWER COMPANY
 TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
 CONDUIT TRANSITIONS

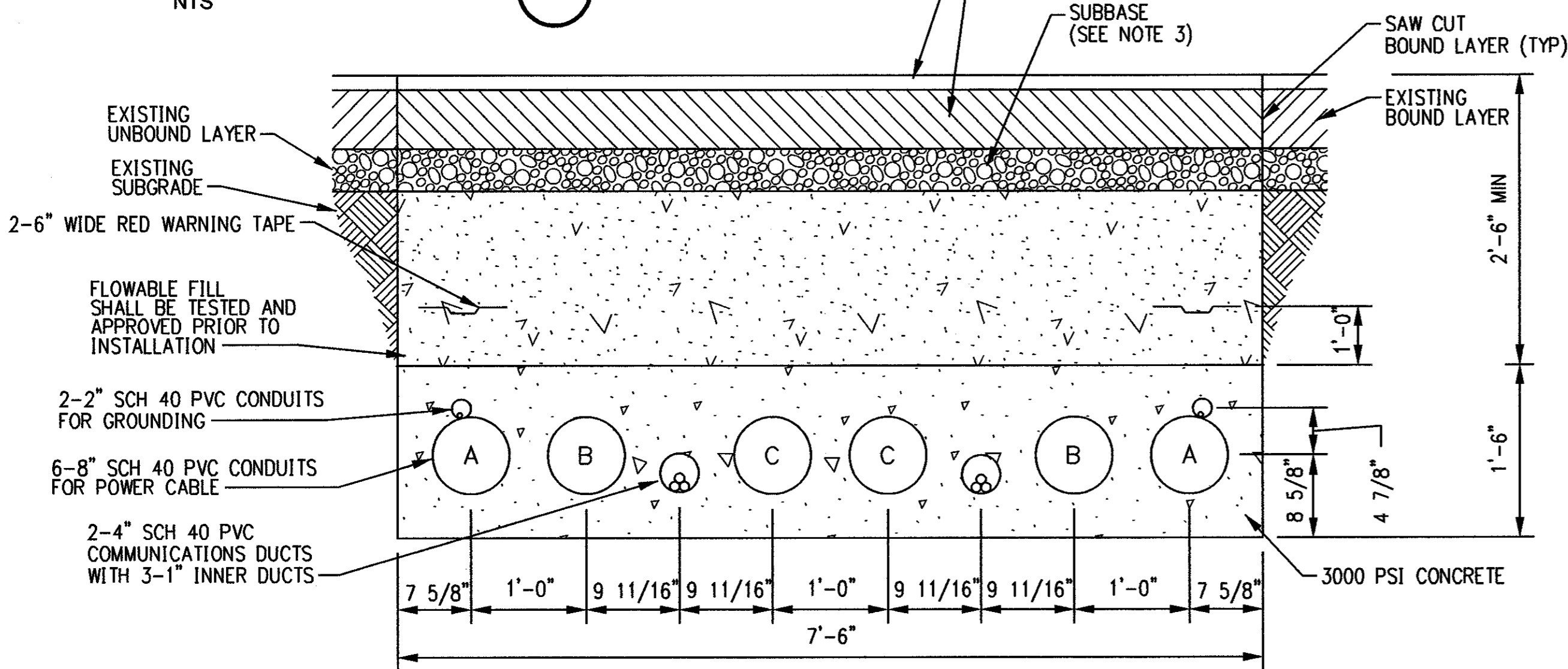
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DATE	7-05-06	DATE	DATE	DATE
SCALE	AS NOTED			
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DWG. NO. 01224-45003 PG 010



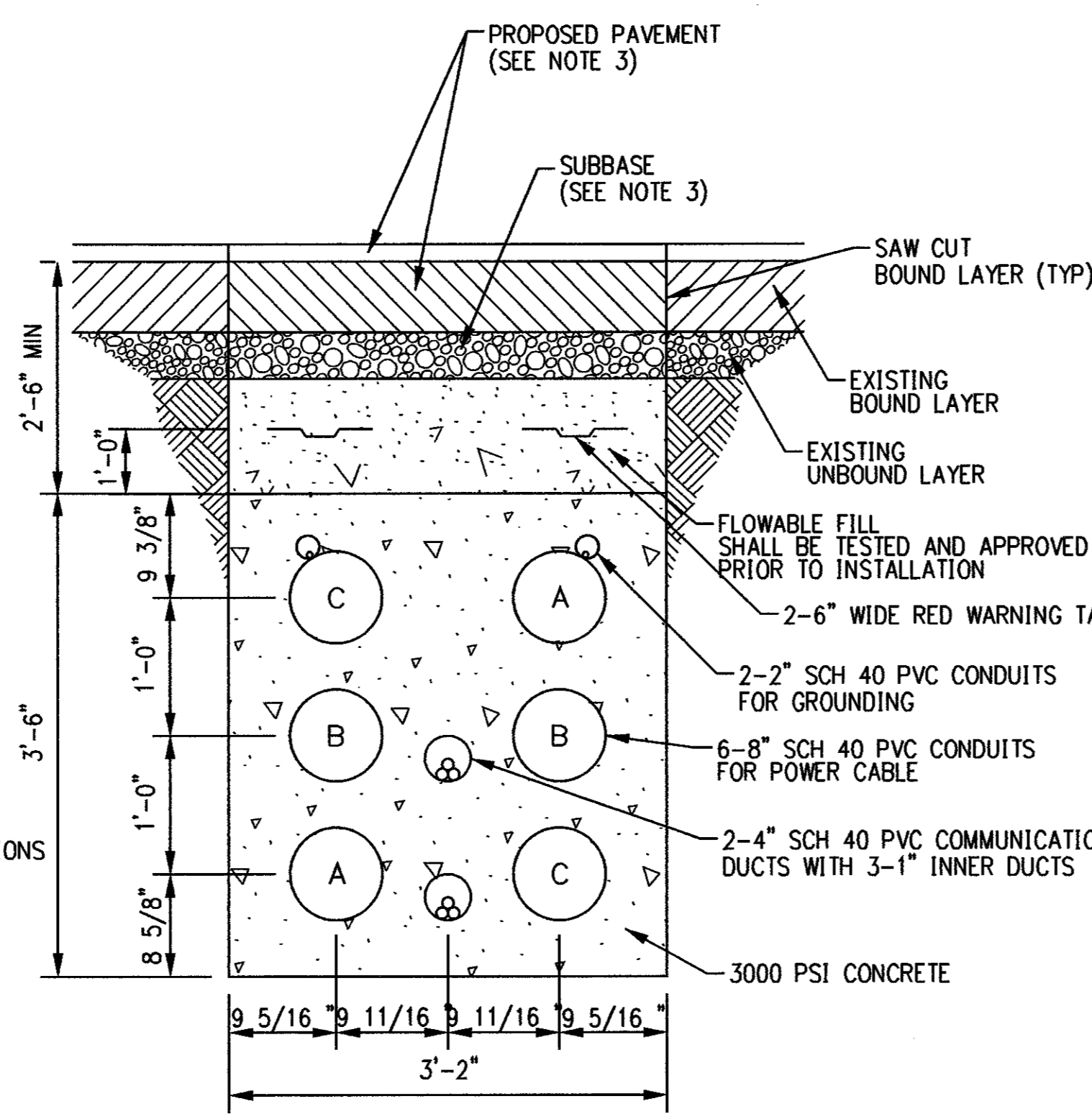
DUCT BANK CONFIGURATION WITH UTILITY CLEARANCE

DETAIL 1 NTS



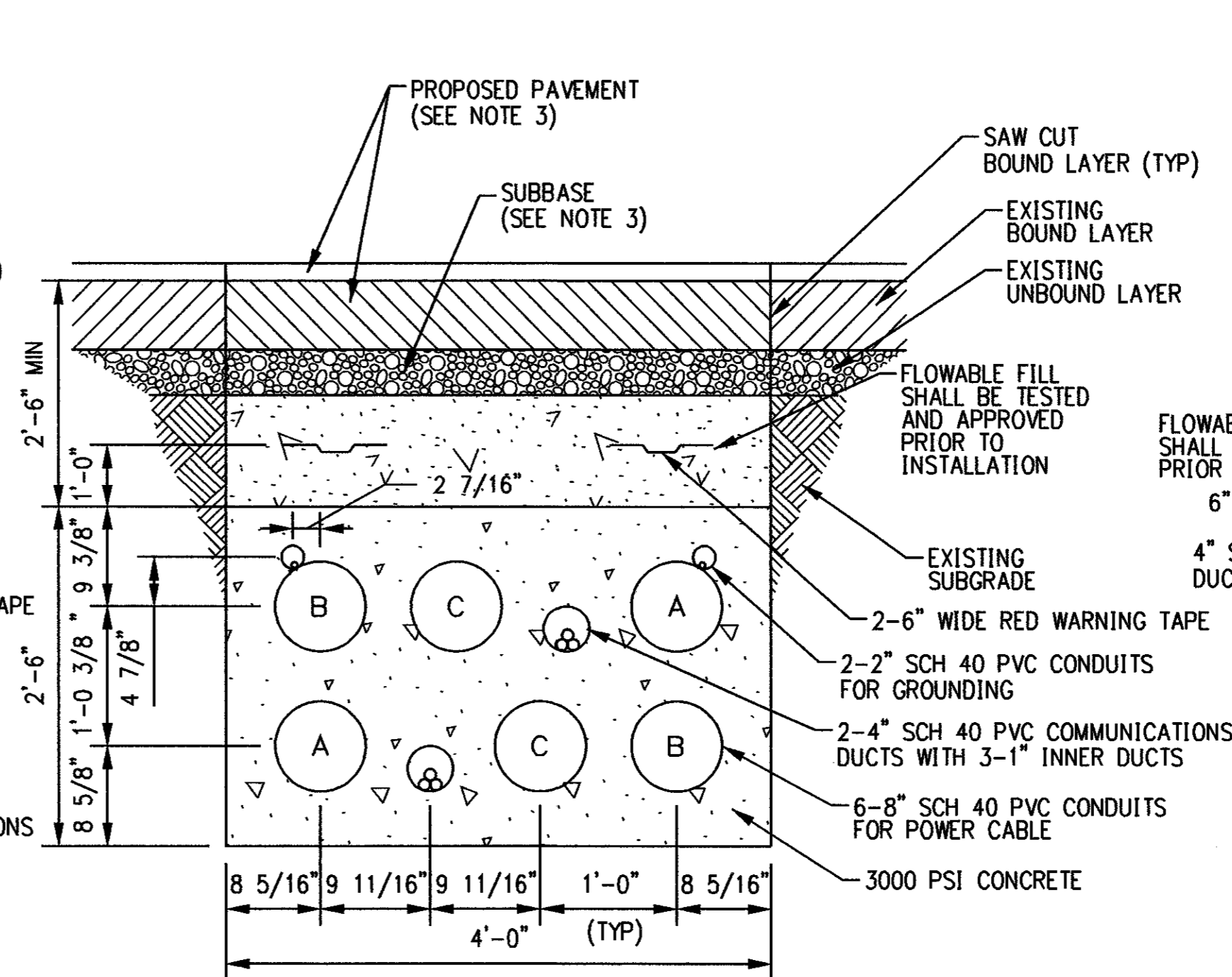
REDUCED-HEIGHT DUCT BANK

SECTION C NTS



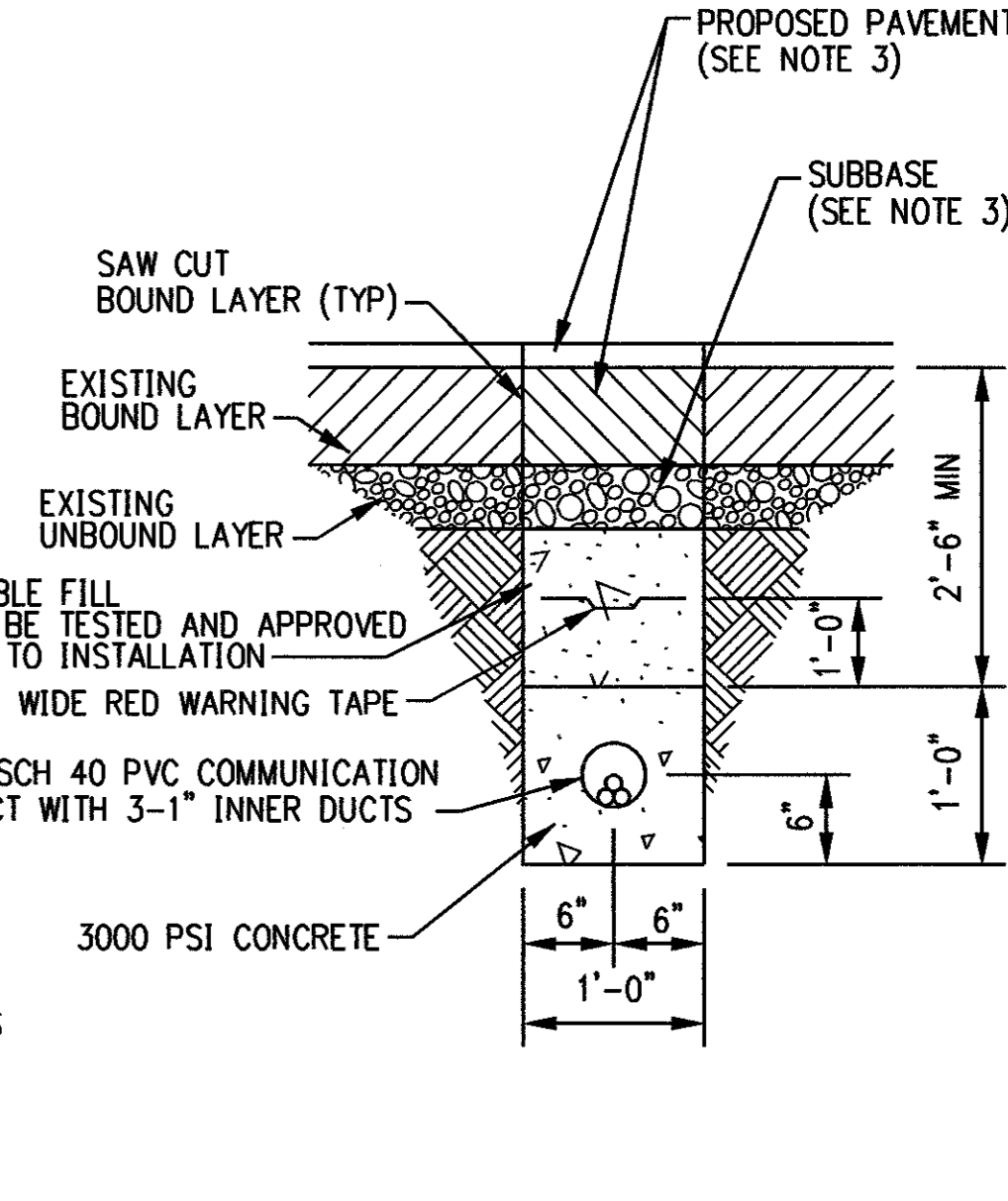
TYPICAL VERTICAL DUCT BANK

SECTION F NTS



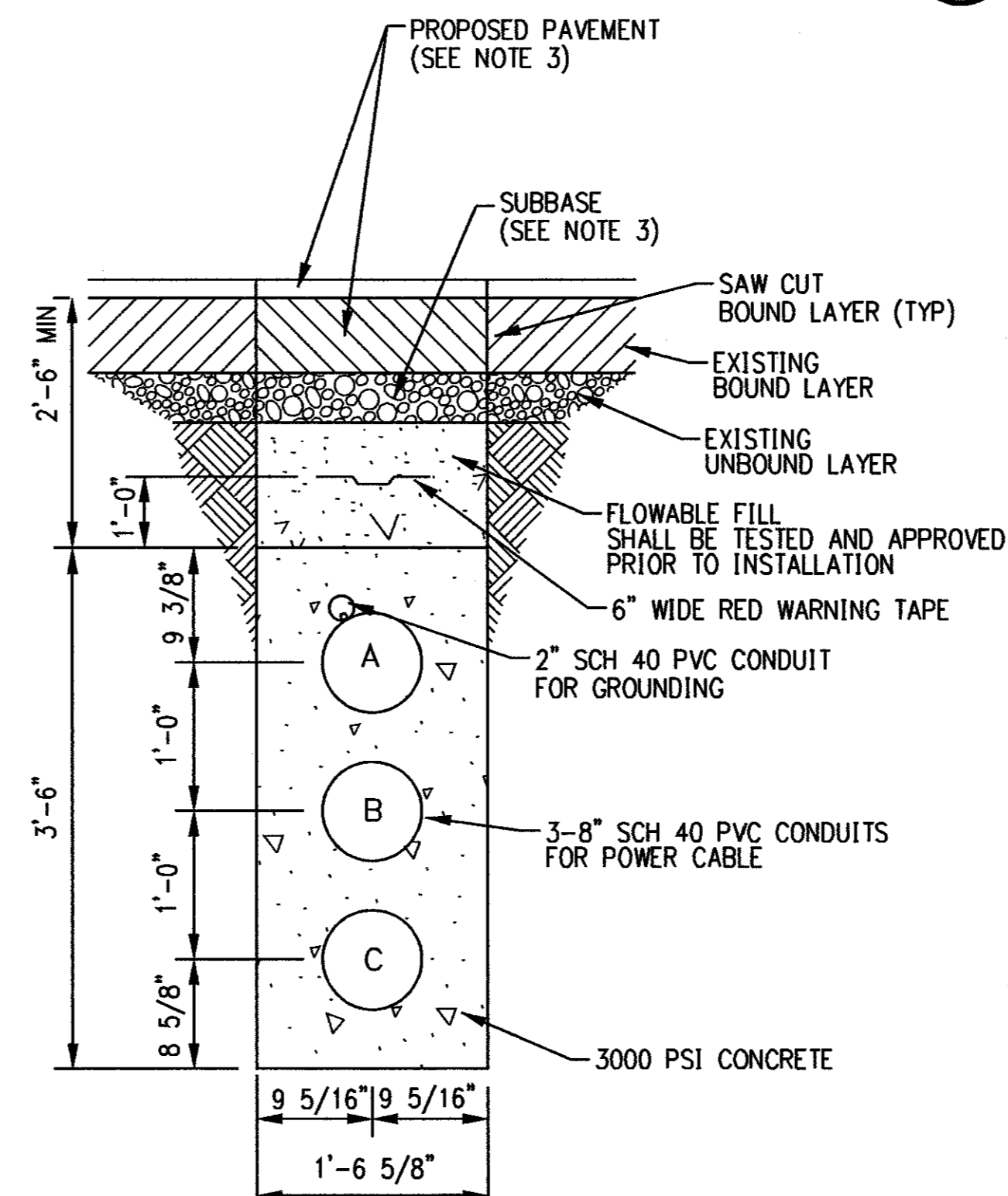
TYPICAL HORIZONTAL DUCT BANK

SECTION A NTS



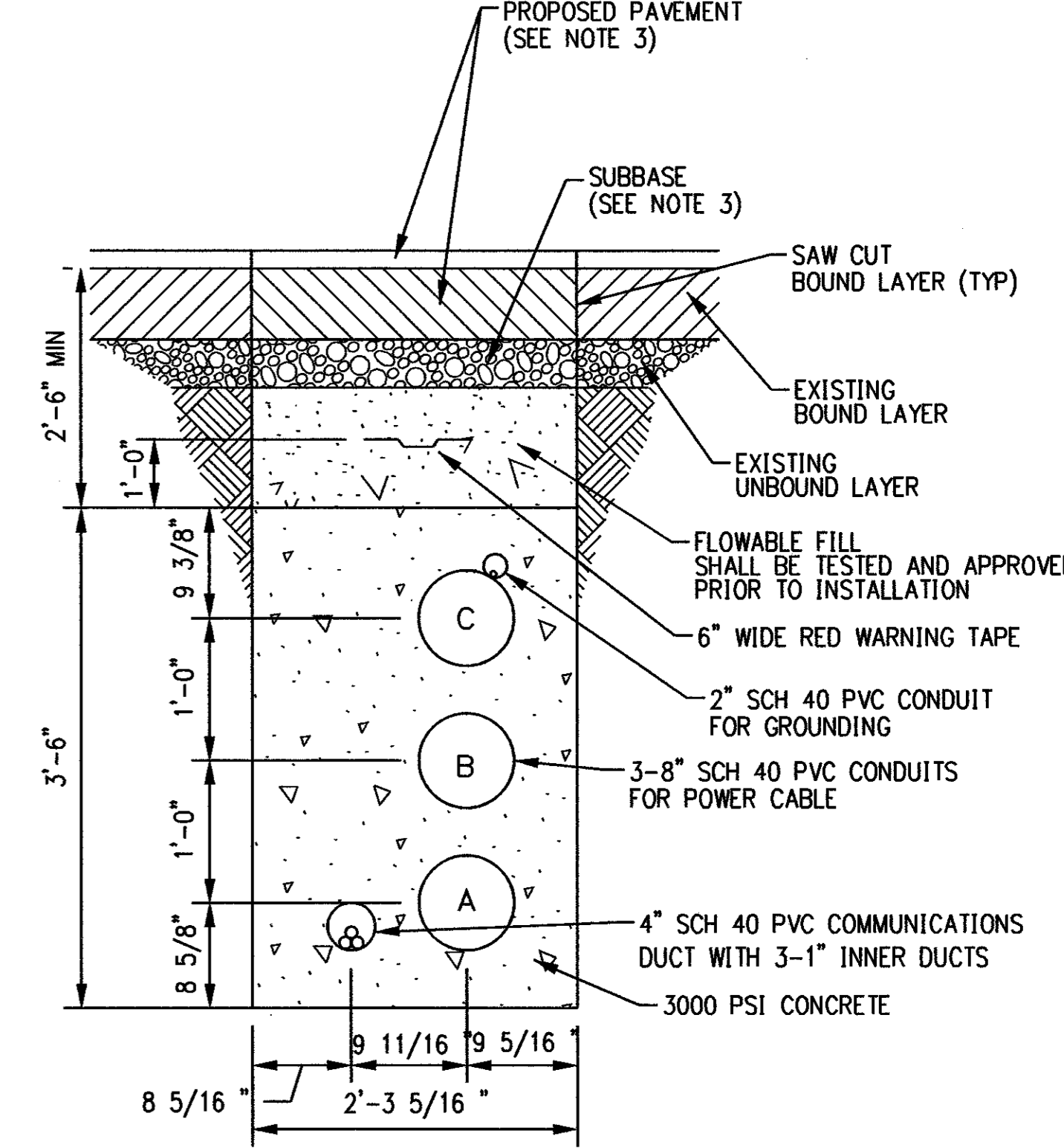
TYPICAL COMMUNICATIONS DUCT BANK

SECTION B NTS



SINGLE CIRCUIT DUCT BANK

SECTION D NTS



SINGLE CIRCUIT WITH COMMUNICATIONS DUCT BANK

SECTION E NTS

- GENERAL NOTES:
- STANDARD TRENCH WITH PERMANENT PAVEMENT RESTORATION IN STATE HIGHWAY SHOWN. PAVEMENT RESTORATION REQUIREMENTS SHALL VARY DEPENDENT ON SPECIFIC EXISTING PAVEMENT CROSS SECTIONS AND MATERIALS.
 - OMITTED
 - REFERENCE RESTORATION DRAWINGS FOR PROPOSED PAVEMENT SECTIONS.



ISSUED FOR CONSTRUCTION



date 11/09/05 detailed BL COMPANIES
 designed BL COMPANIES checked S. NEWLAND

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

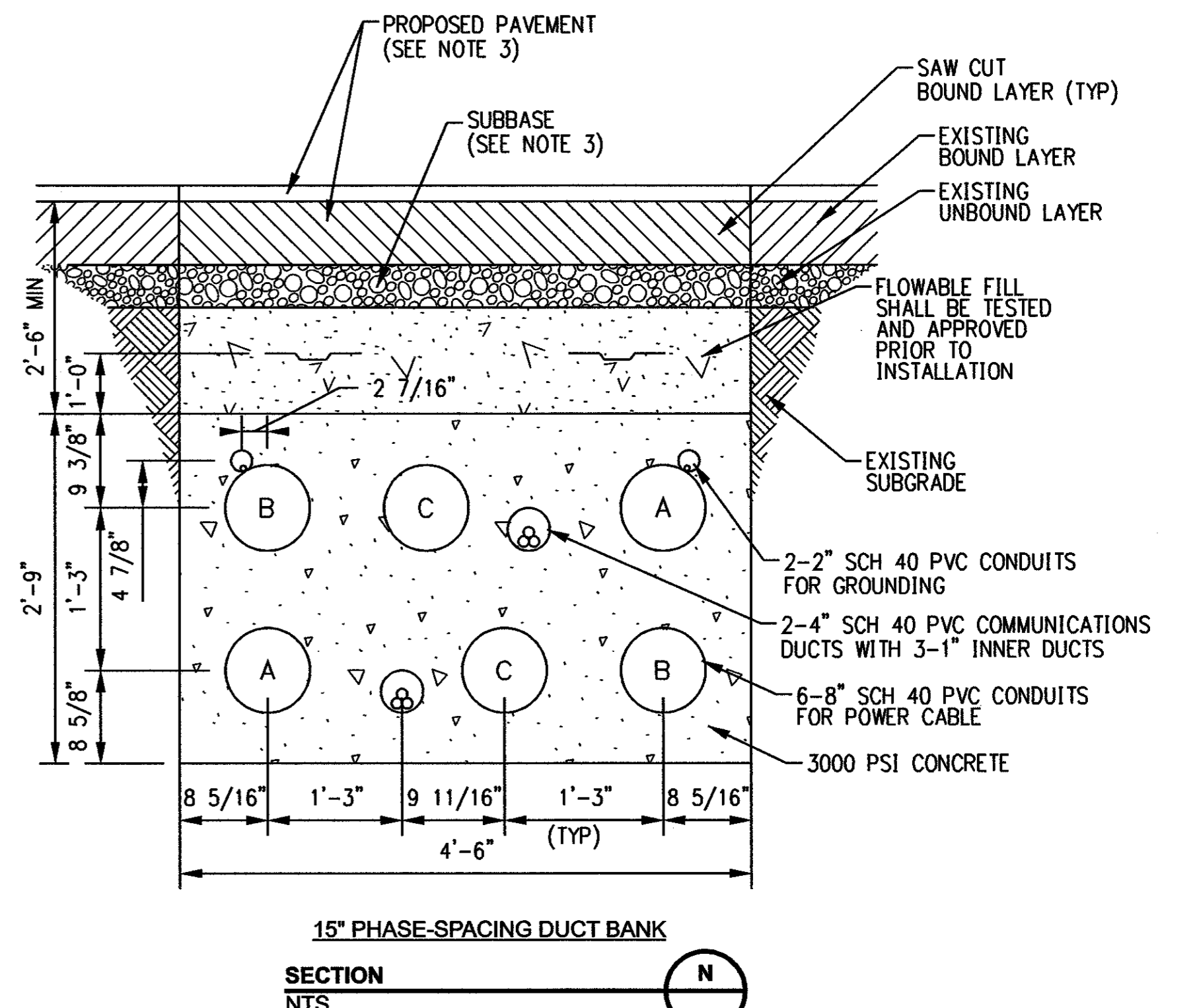
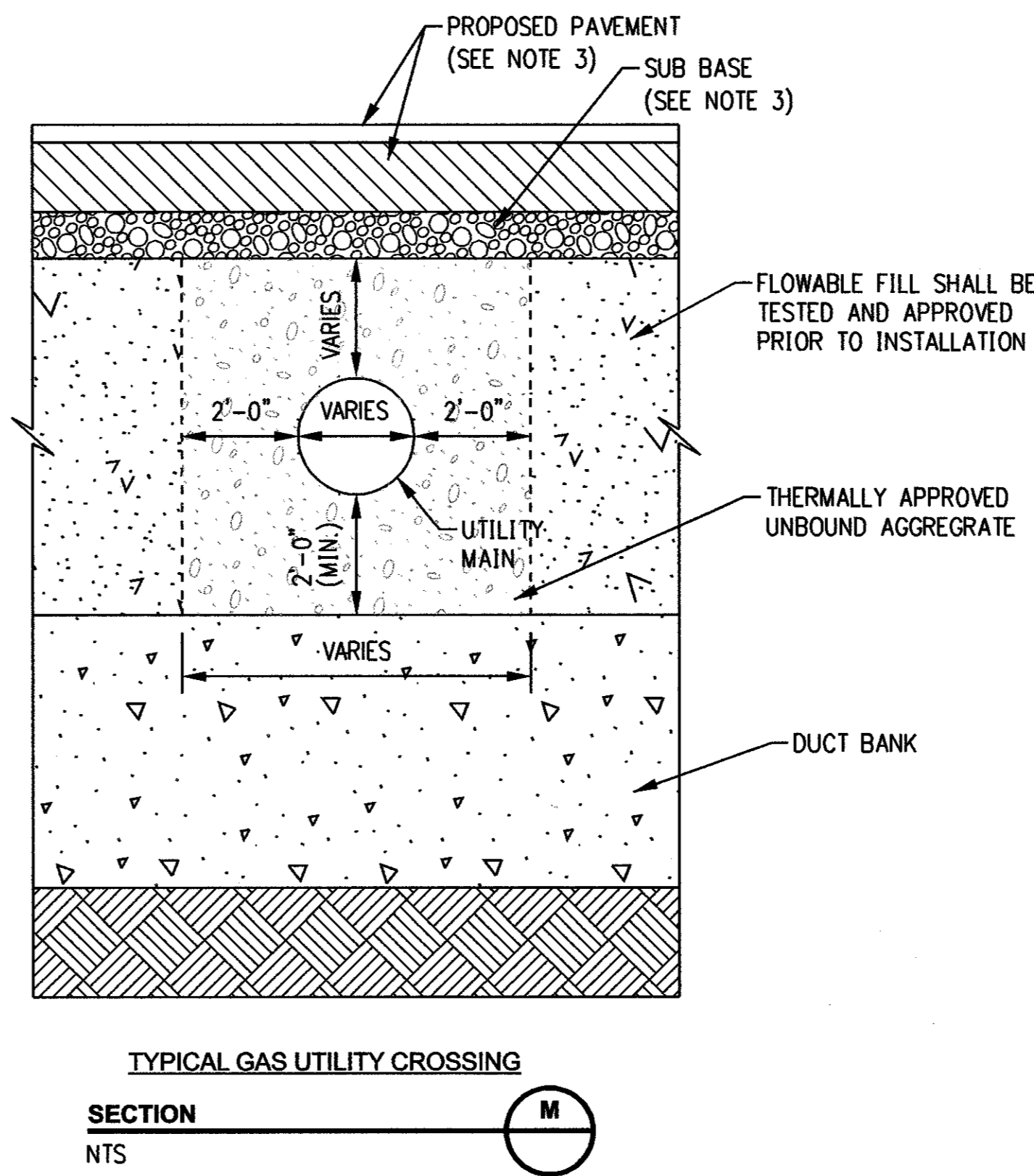
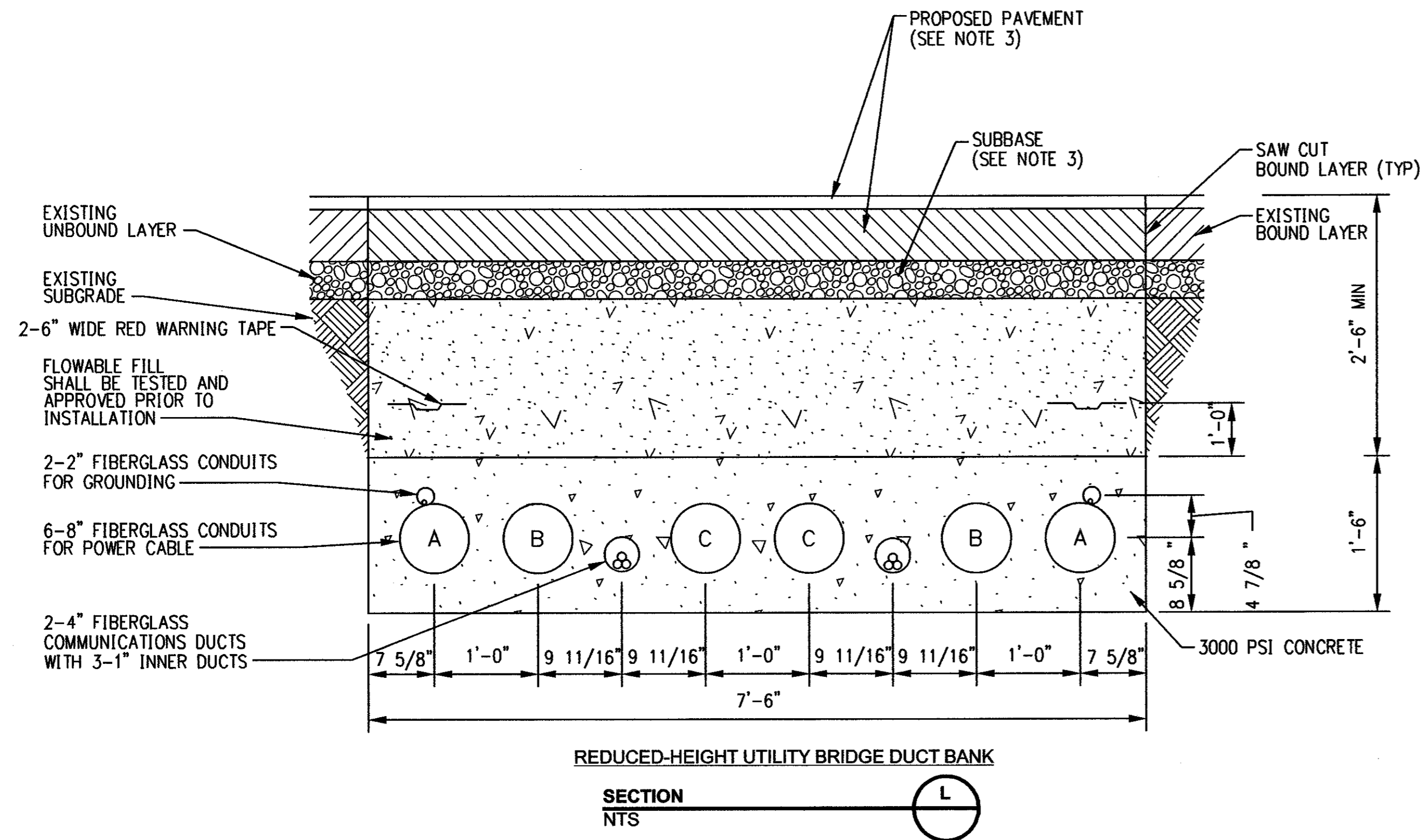
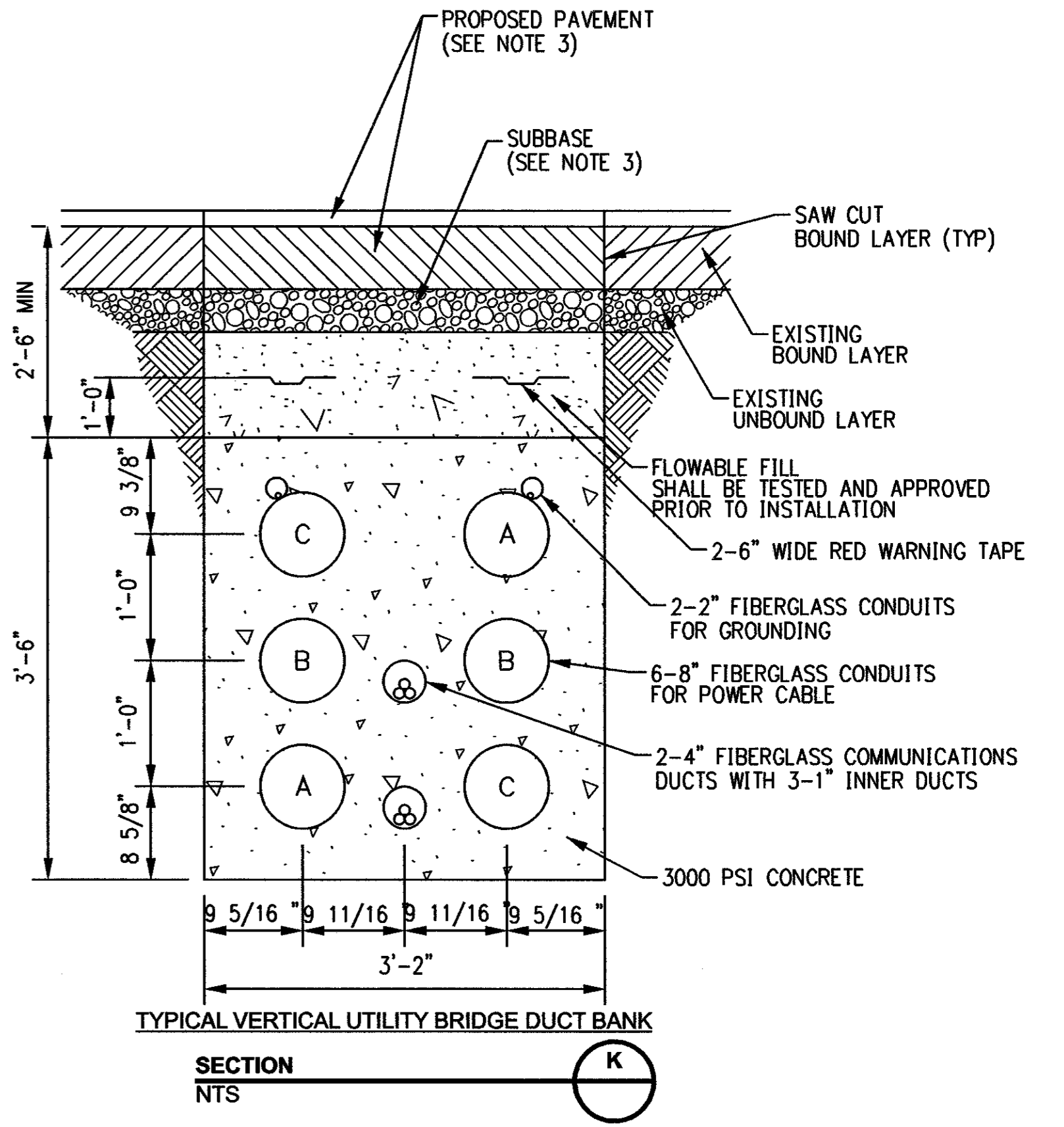
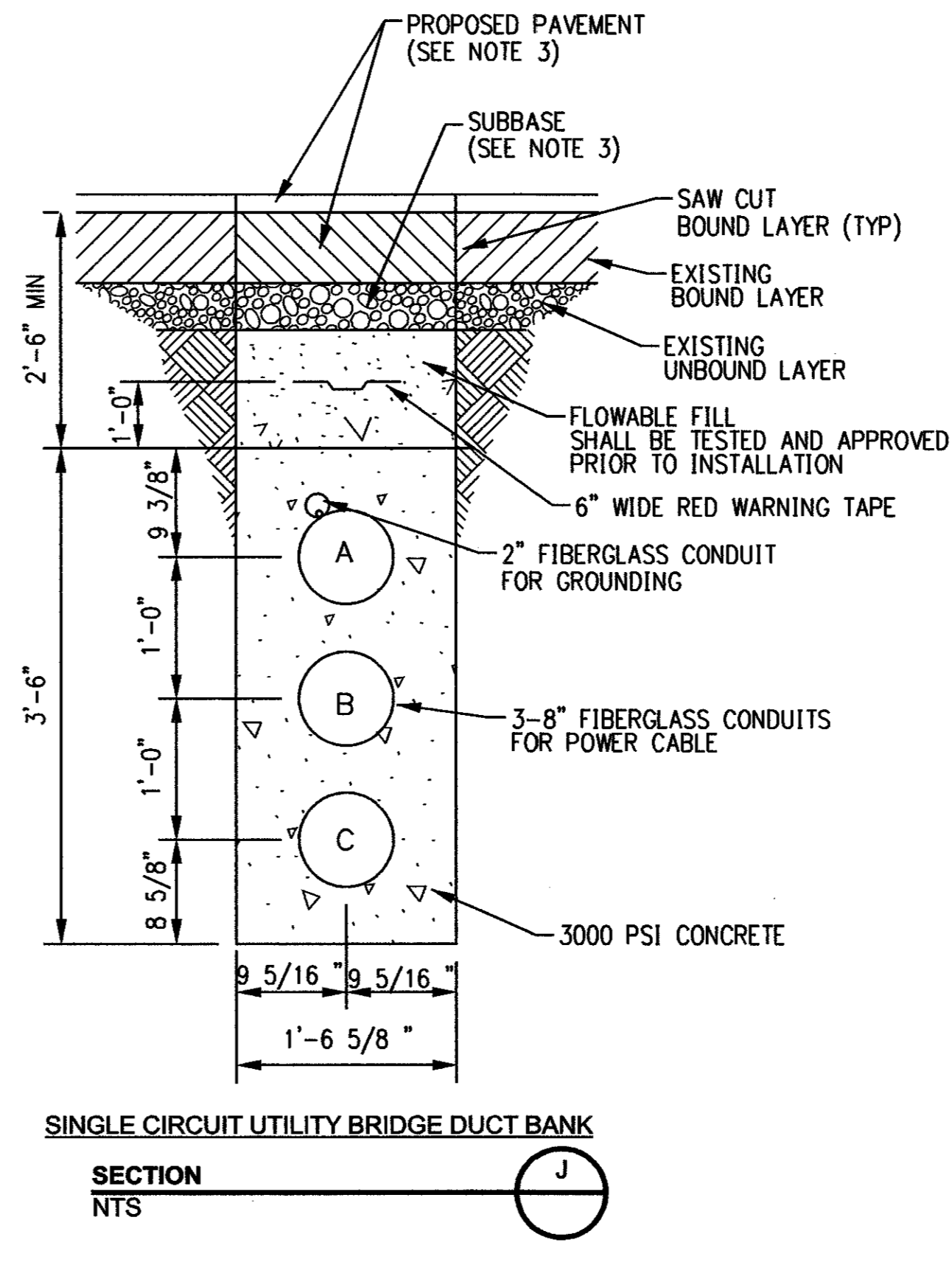
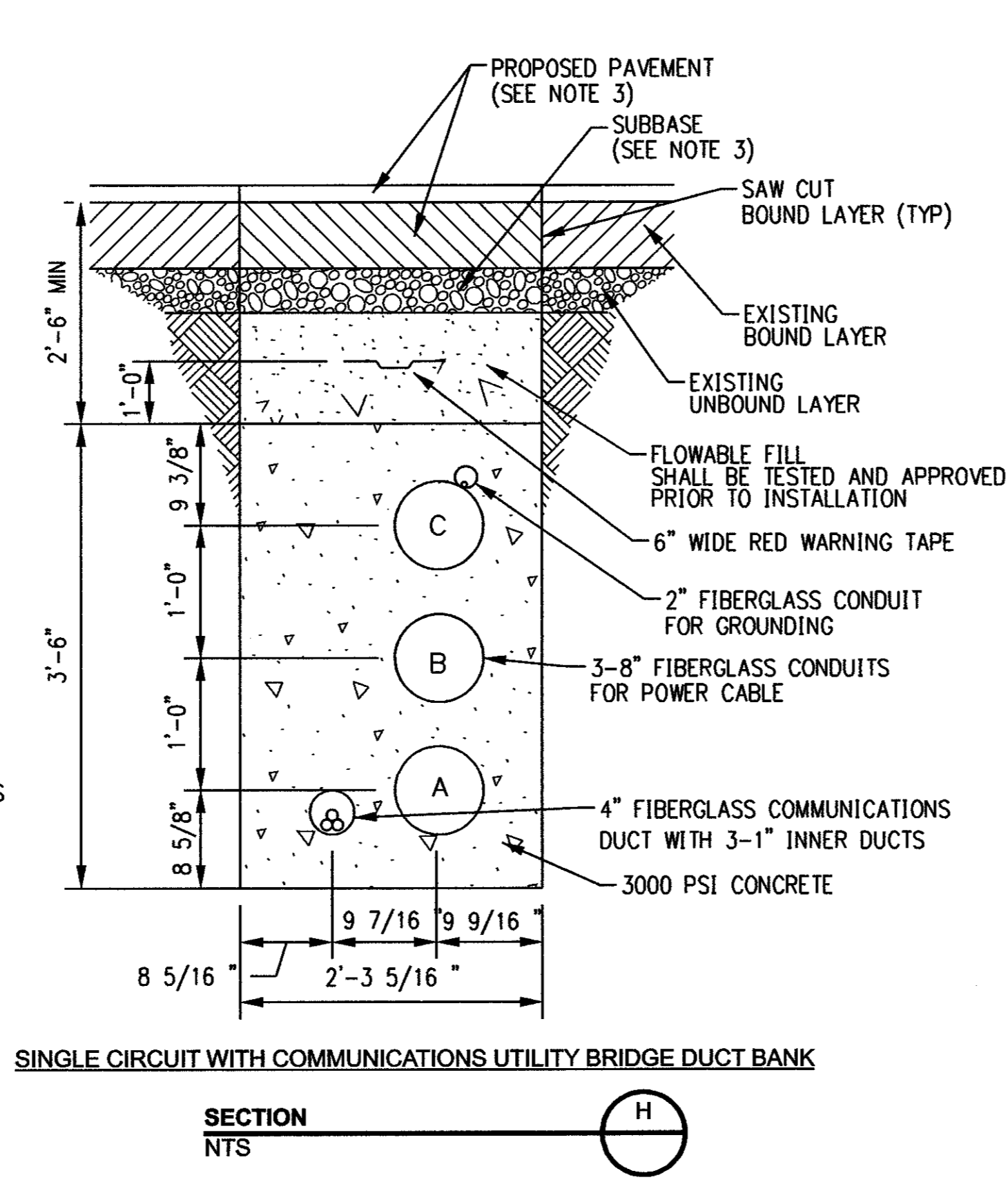
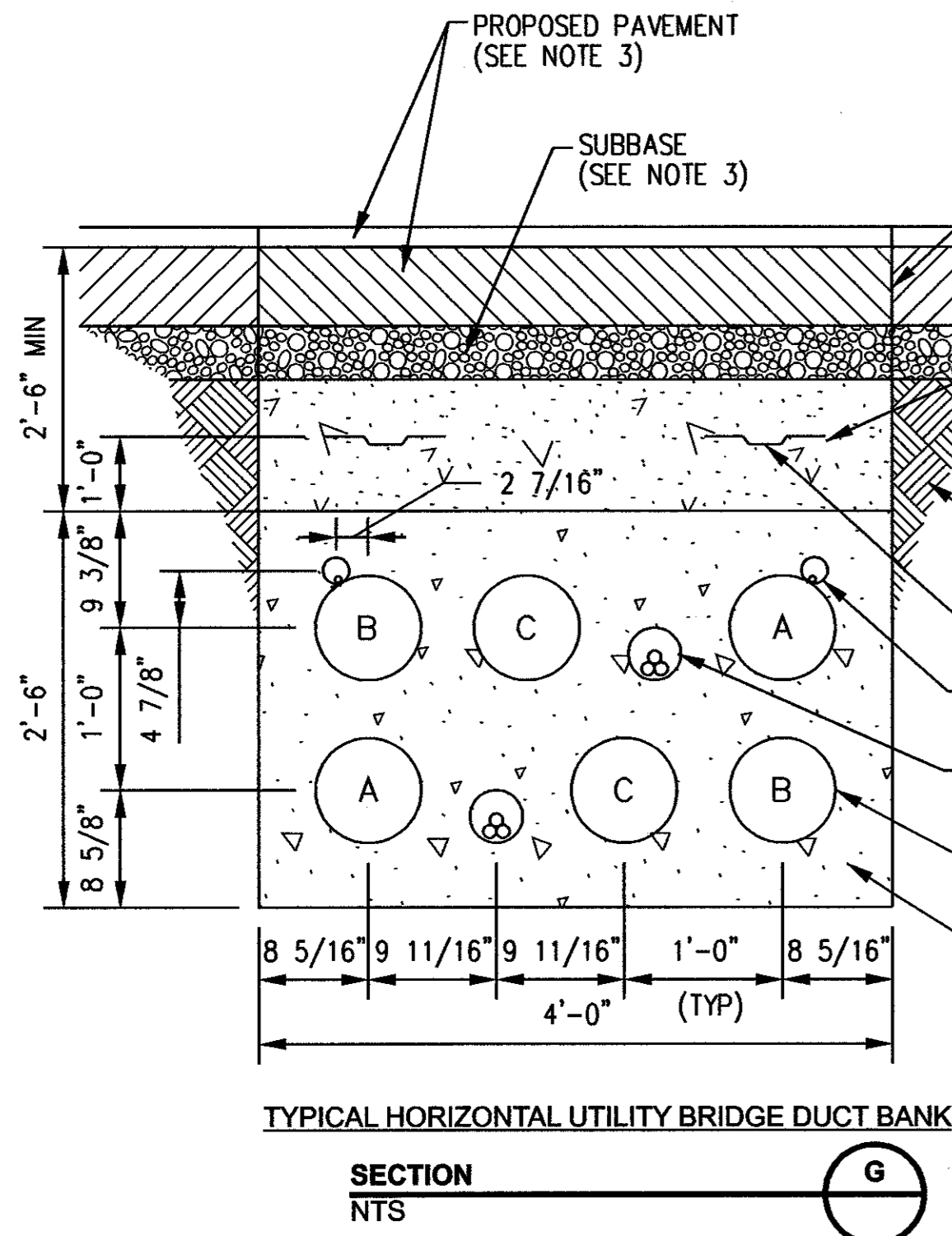
NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

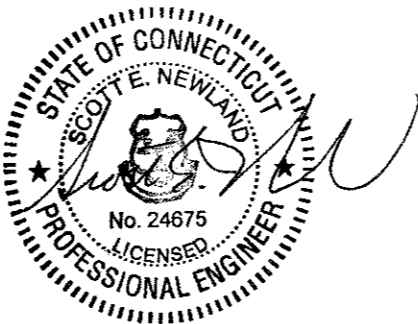
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

TYPICAL DUCT BANK DETAILS

BY	CHKD	APP	APP
SEN-BMCD			
DATE 11-09-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	01224-46003 PG 001



- GENERAL NOTES:**
- STANDARD TRENCH WITH PERMANENT PAVEMENT RESTORATION IN STATE HIGHWAY SHOWN. PAVEMENT RESTORATION REQUIREMENTS SHALL VARY DEPENDENT ON SPECIFIC EXISTING PAVEMENT CROSS SECTIONS AND MATERIALS.
 - ALL FIBERGLASS CONDUITS SHALL BE OF BULLET-RESISTANT GRADE OR APPROVED OTHER.
 - REFERENCE RESTORATION DRAWINGS FOR PROPOSED PAVEMENT SECTIONS.



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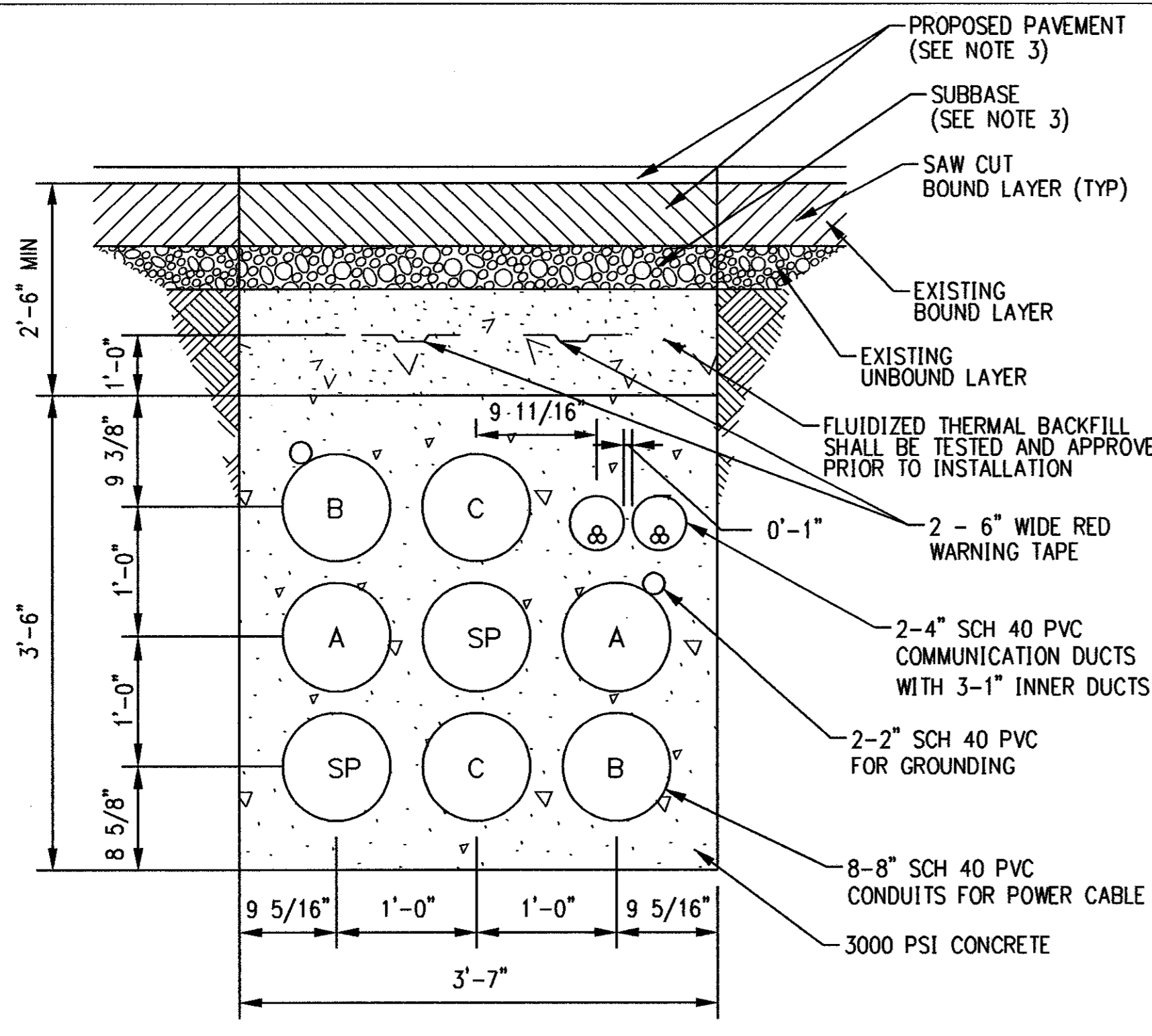


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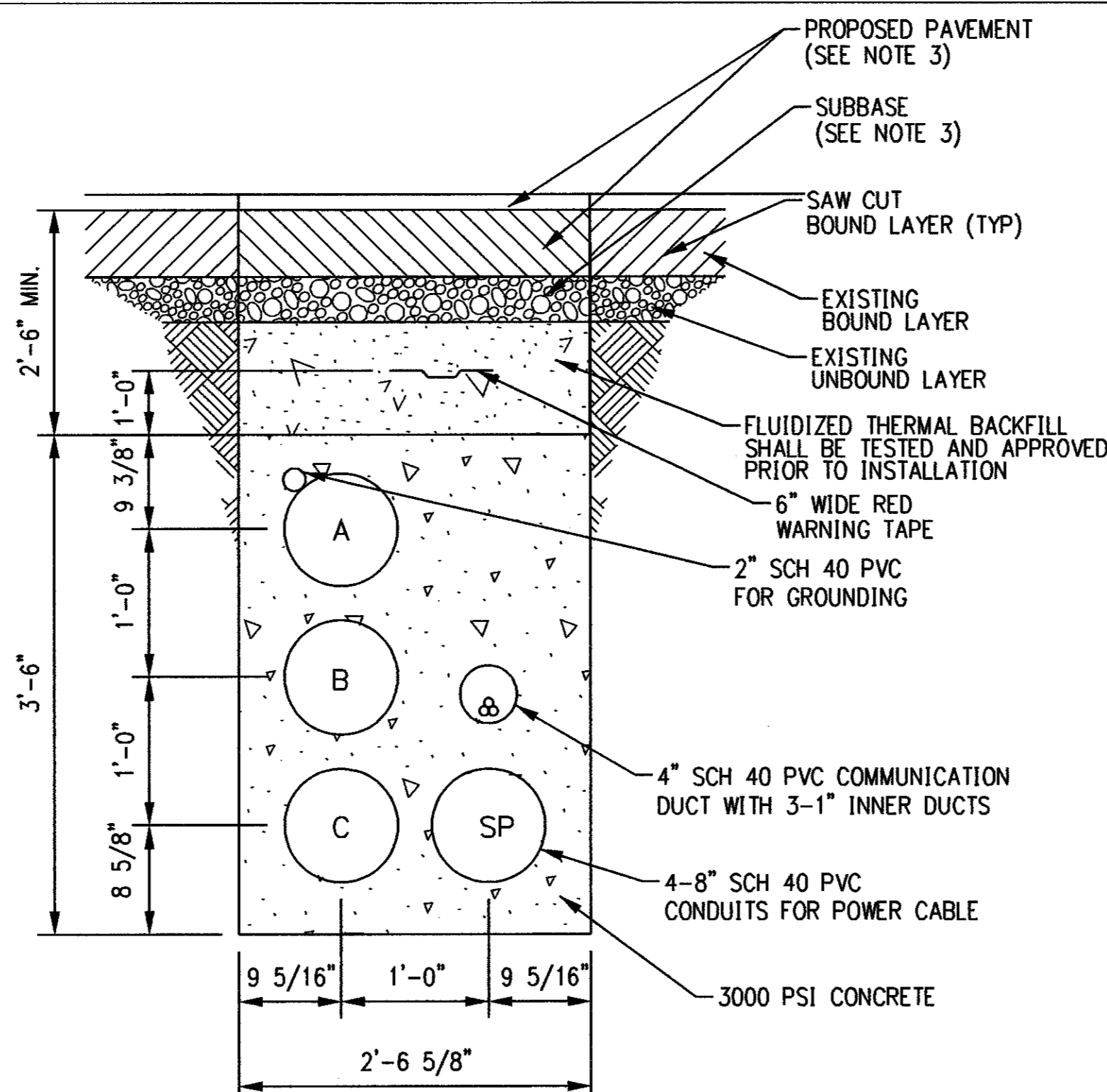
date	11/09/05	detailed	L. ROWSE
designed	C. COURTRIGHT	checked	S. NEWLAND

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

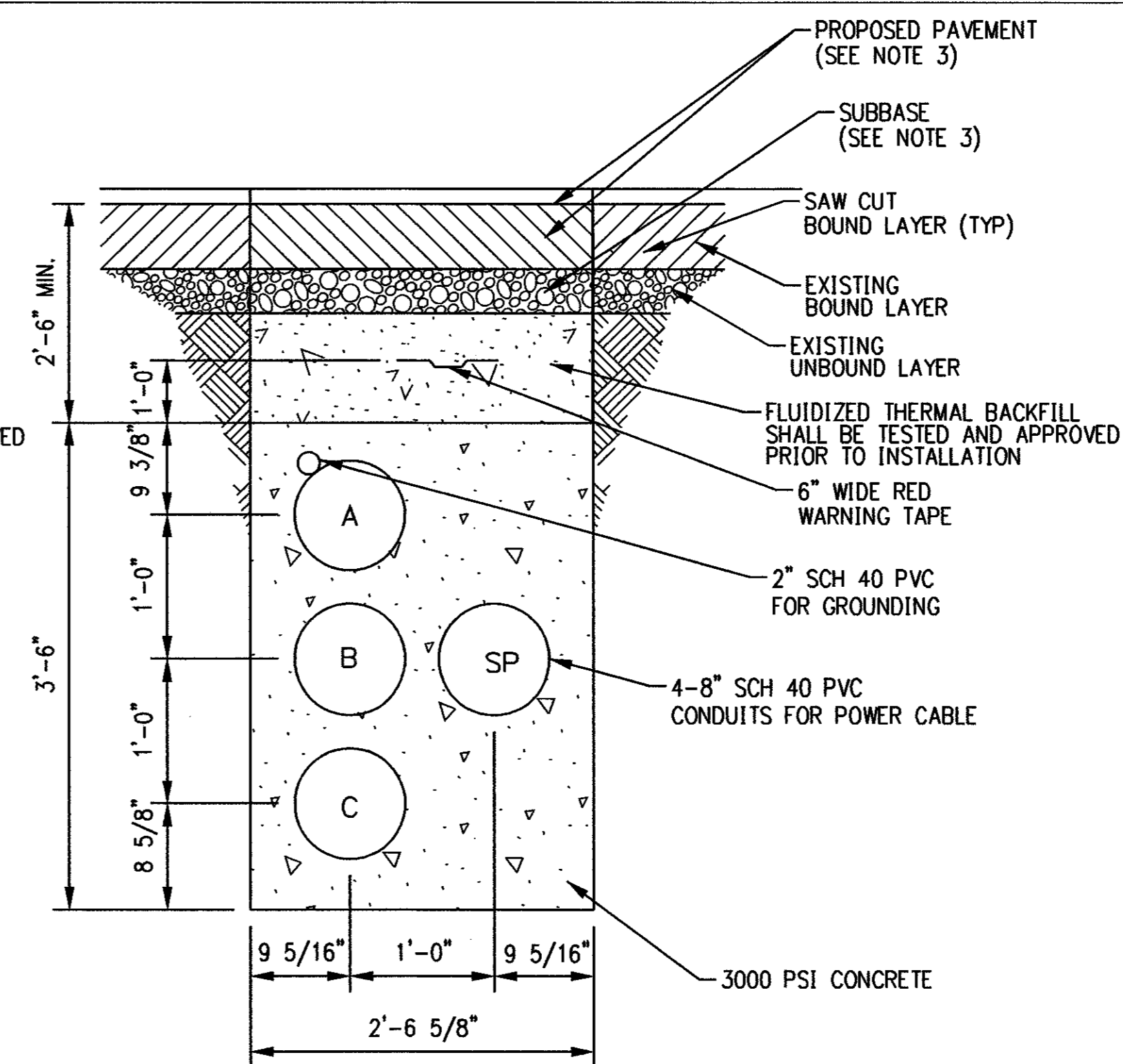
NORTHEAST UTILITIES SERVICE CO.			
FOR	THE CONNECTICUT LIGHT & POWER COMPANY		
TITLE	MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT UTILITY BRIDGE DUCT BANK DETAILS AND UTILITY CROSSING DETAIL		
BY	SEN-BMCD	CHKD	APP
DATE	11-09-05	DATE	DATE
SCALE	AS NOTED	DWG. NO.	01224-46003 PG 002



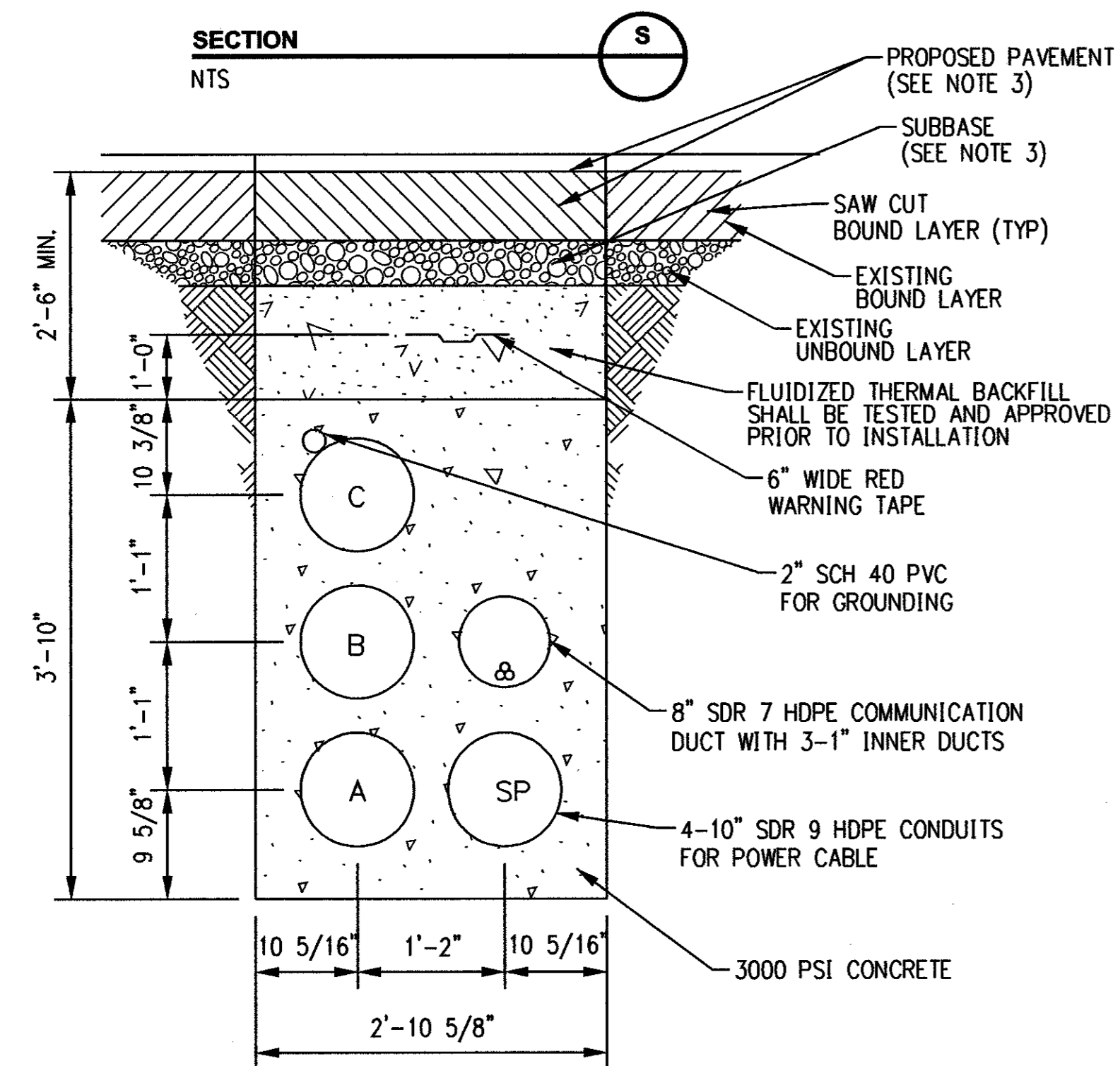
TYPICAL JACK AND BORE DUCT BANK



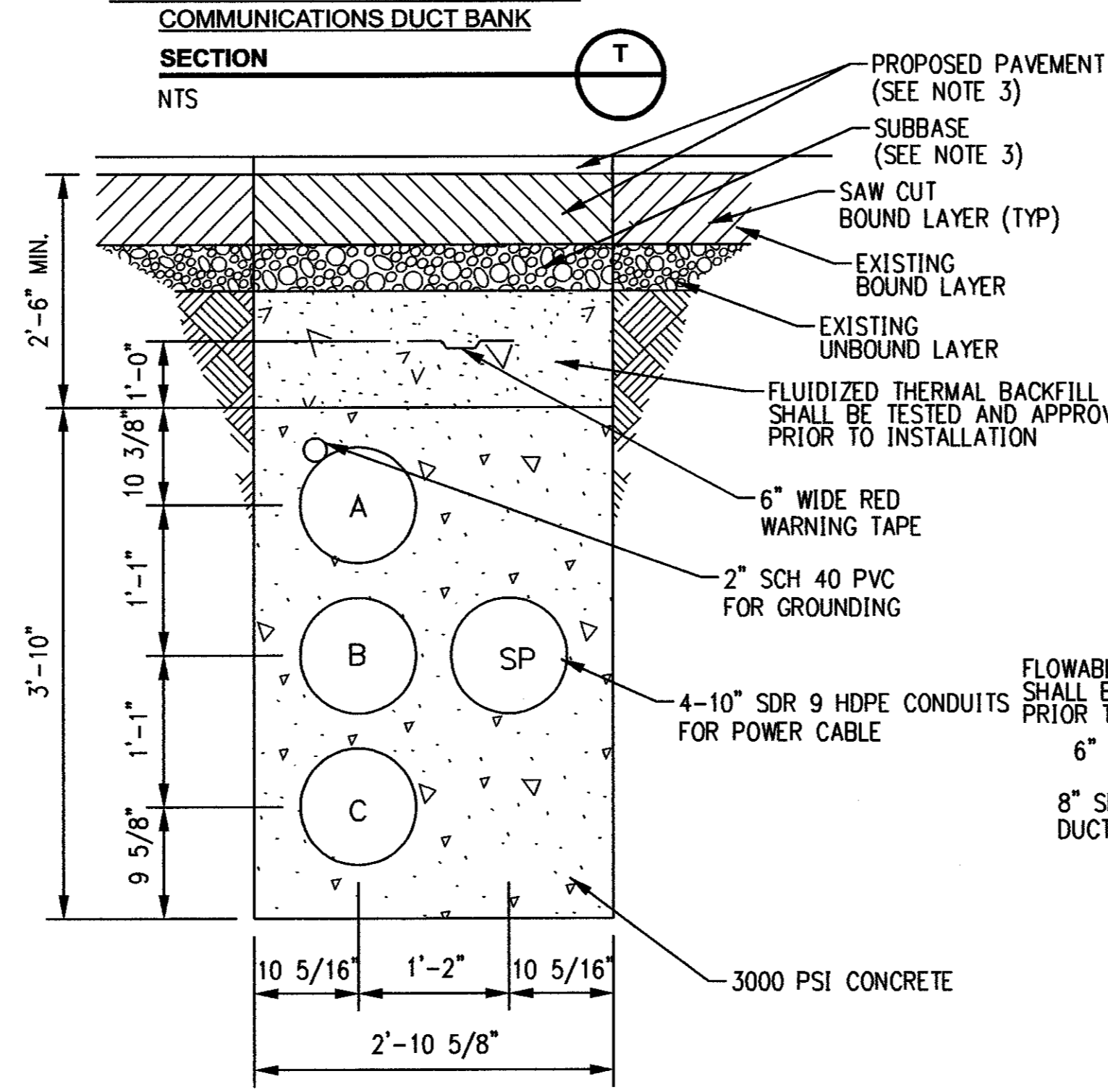
JACK AND BORE SINGLE CIRCUIT WITH COMMUNICATIONS DUCT BANK



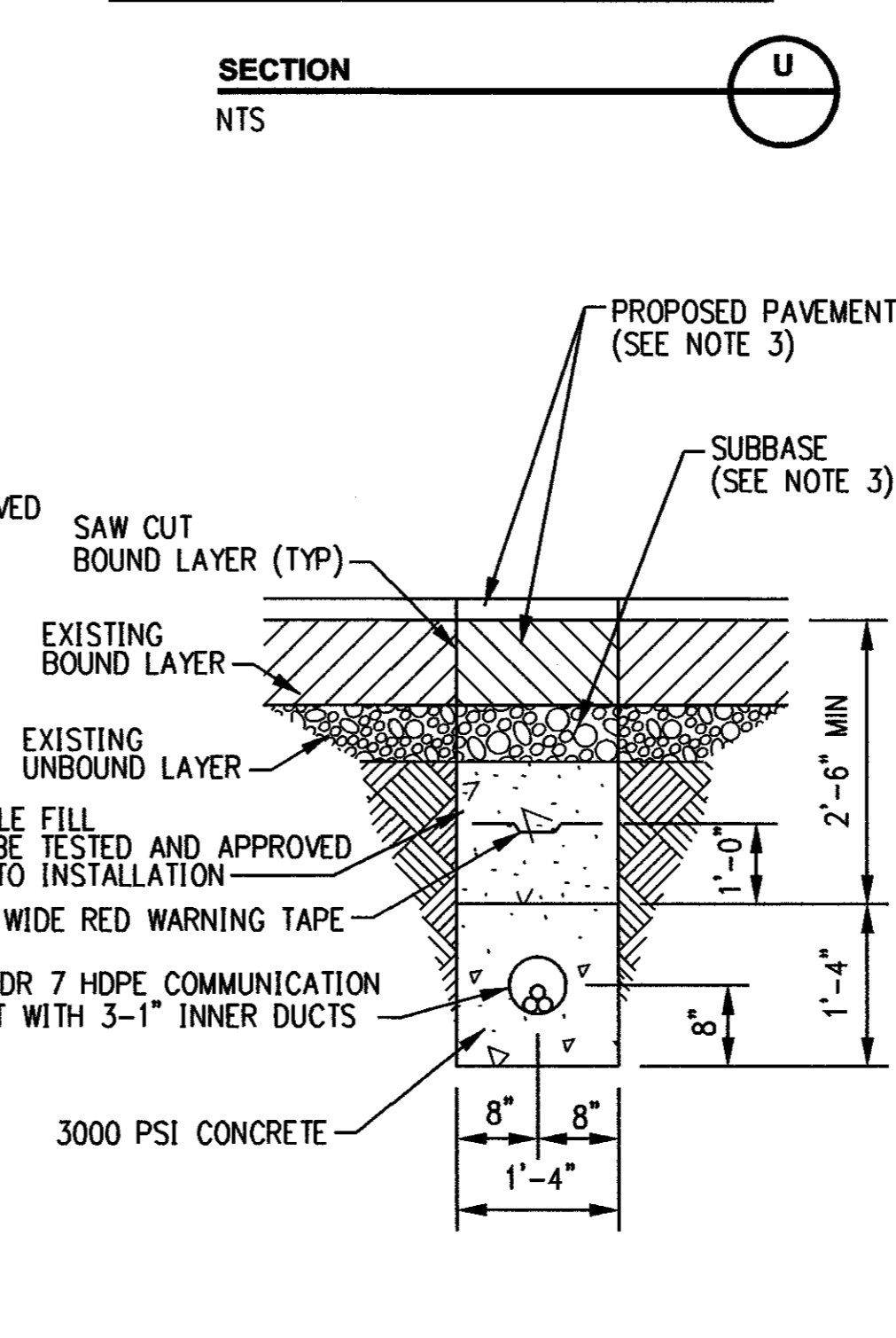
JACK AND BORE SINGLE CIRCUIT DUCT BANK



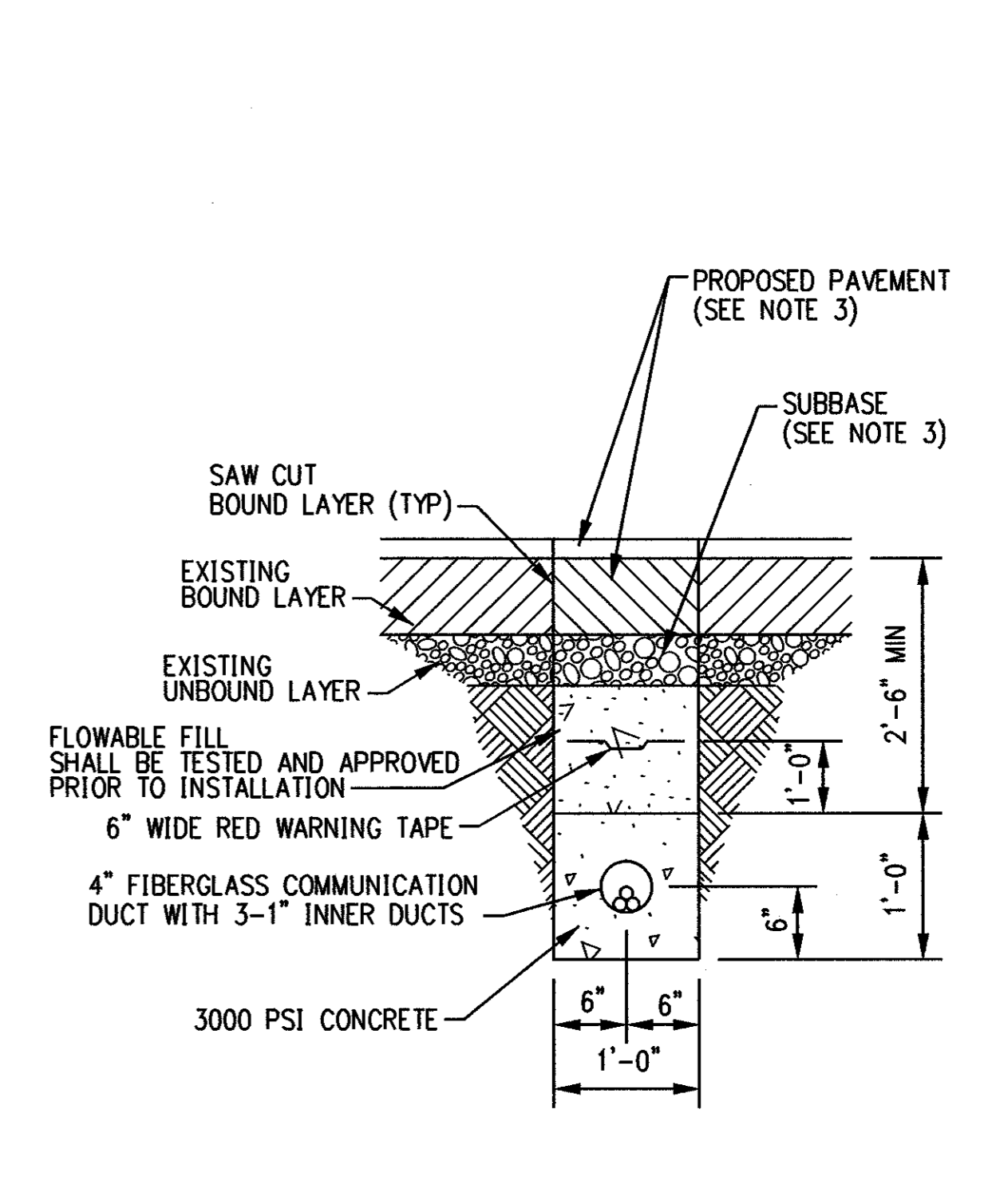
HORIZONTAL DIRECTIONAL DRILL SINGLE CIRCUIT WITH COMMUNICATIONS DUCT BANK



HORIZONTAL DIRECTIONAL DRILL SINGLE CIRCUIT DUCT BANK

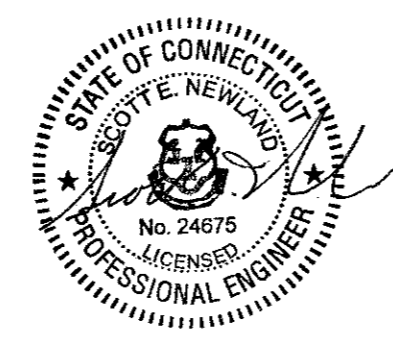


HORIZONTAL DIRECTIONAL DRILL COMMUNICATIONS DUCT BANK



UTILITY BRIDGE COMMUNICATIONS DUCT BANK

- GENERAL NOTES:
- STANDARD TRENCH WITH PERMANENT PAVEMENT RESTORATION IN STATE HIGHWAY SHOWN. PAVEMENT RESTORATION REQUIREMENTS SHALL VARY DEPENDENT ON SPECIFIC EXISTING PAVEMENT CROSS SECTIONS AND MATERIALS.
 - OMITTED
 - REFERENCE RESTORATION DRAWINGS FOR PROPOSED PAVEMENT SECTIONS.



ISSUED FOR CONSTRUCTION

DOCKET No. 272

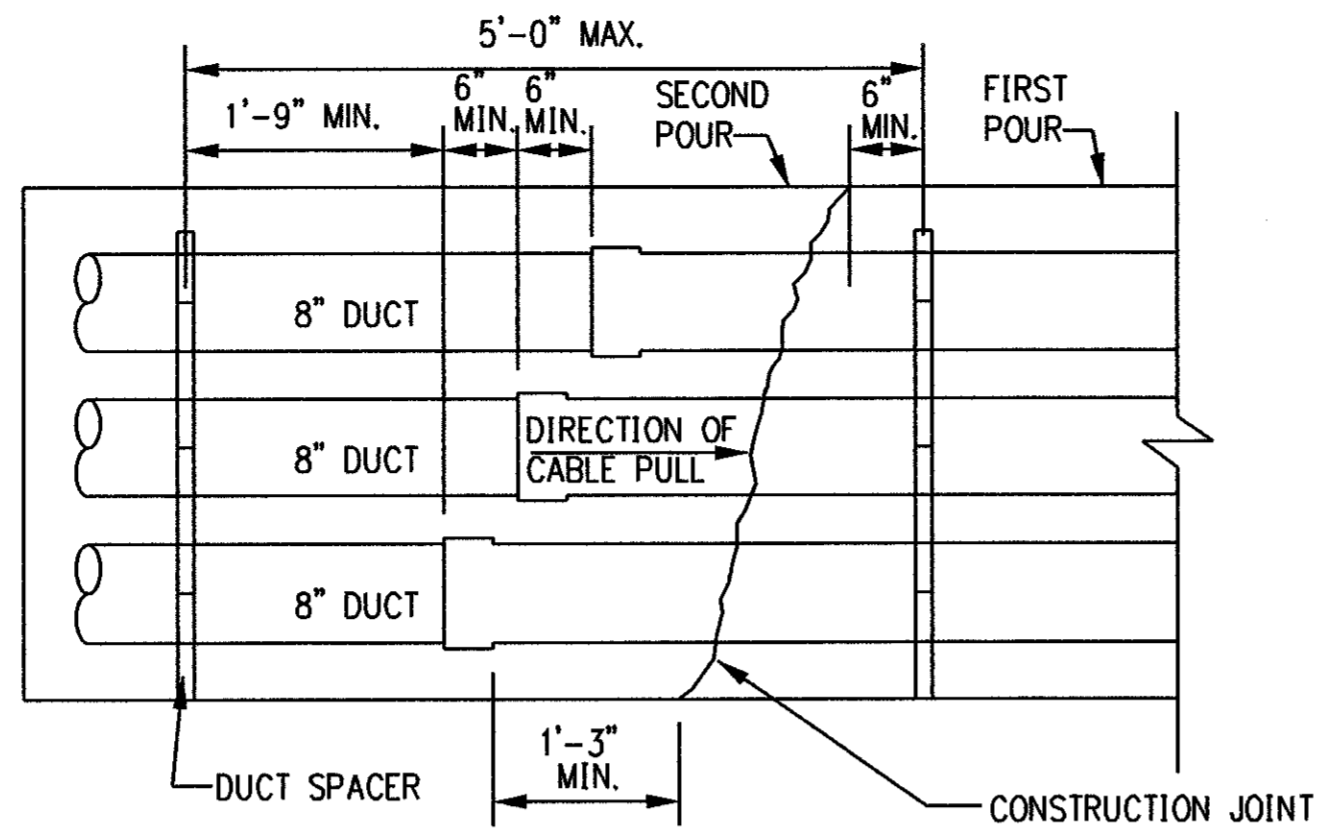
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1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

date	11/09/05	detailed	L. ROWSE
designed	C. COURTRIGHT	checked	S. NEWLAND

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

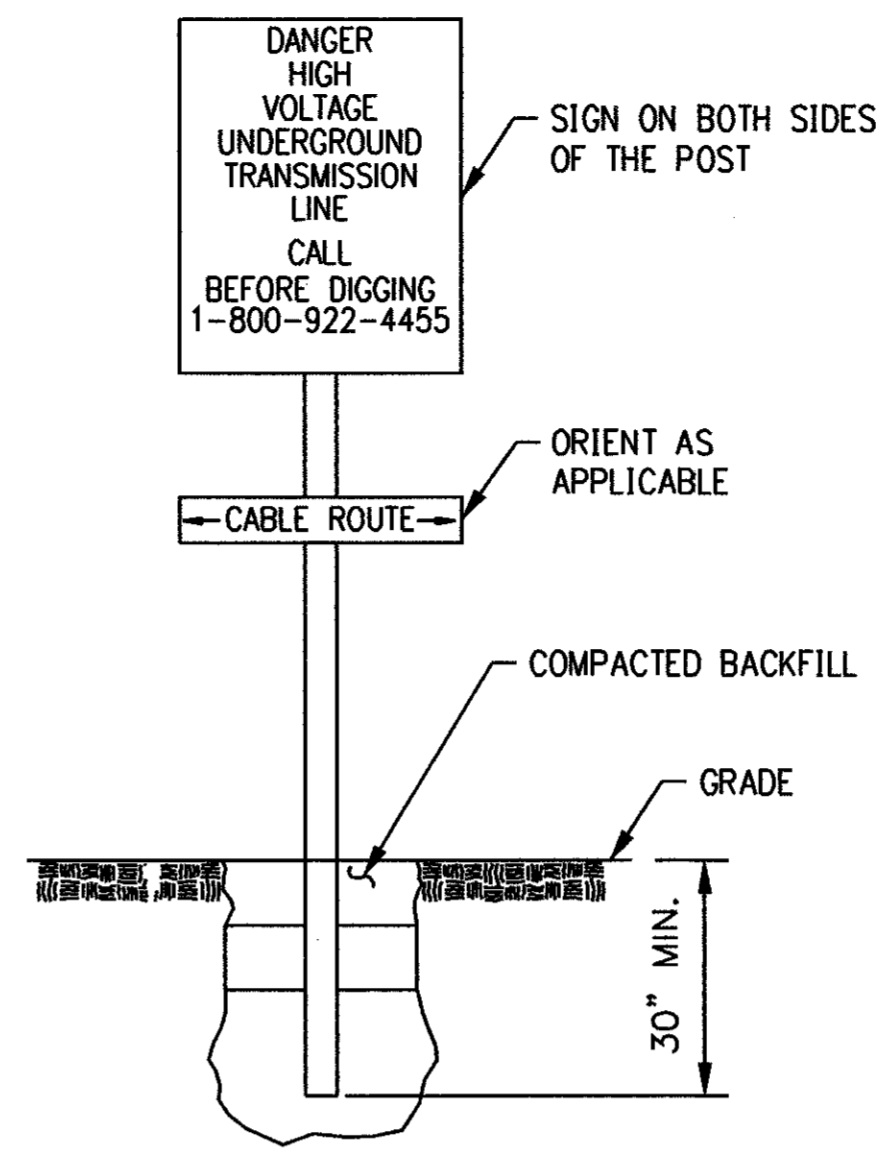
NORTHEAST UTILITIES SERVICE CO.			
FOR	THE CONNECTICUT LIGHT & POWER COMPANY		
TITLE	MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT JACK AND BORE, HORIZONTAL DIRECTIONAL DRILL AND UTILITY BRIDGE DUCT BANK DETAILS		
BY	SEN-BMCD	CHKD	APP
DATE	11-09-05	DATE	DATE
SCALE	AS NOTED	DWG. NO.	01224-46003 PG 004

Cable Pulling Direction and Tension			
Middletown-Norwalk 345-kV Transmission Line Project			
Segment 4b			
Norwalk / Westport, CT			
Cable Pulling Direction		Calculated Tension (lb.)	Calculated Maximum Side Wall Pressure (lb/ft.)
From Vault	To Vault		
6	5	15,100	150
6	7	17,800	90
8	7	14,300	100
8	9	15,000	70
9	10	15,100	70
10	11	19,000	90
12	11	17,100	90
12	13	17,500	160
14	13	17,400	110
14	15	14,200	70
16	15	18,000	120
17	16	13,600	70
18	17	13,100	70
19	18	16,100	80
19	20	12,600	60
20	21	13,200	70
22	21	16,400	90
22	23	17,800	90
23	24	18,900	100
24	25	19,300	160
25	26	16,100	80
26	27	19,600	100



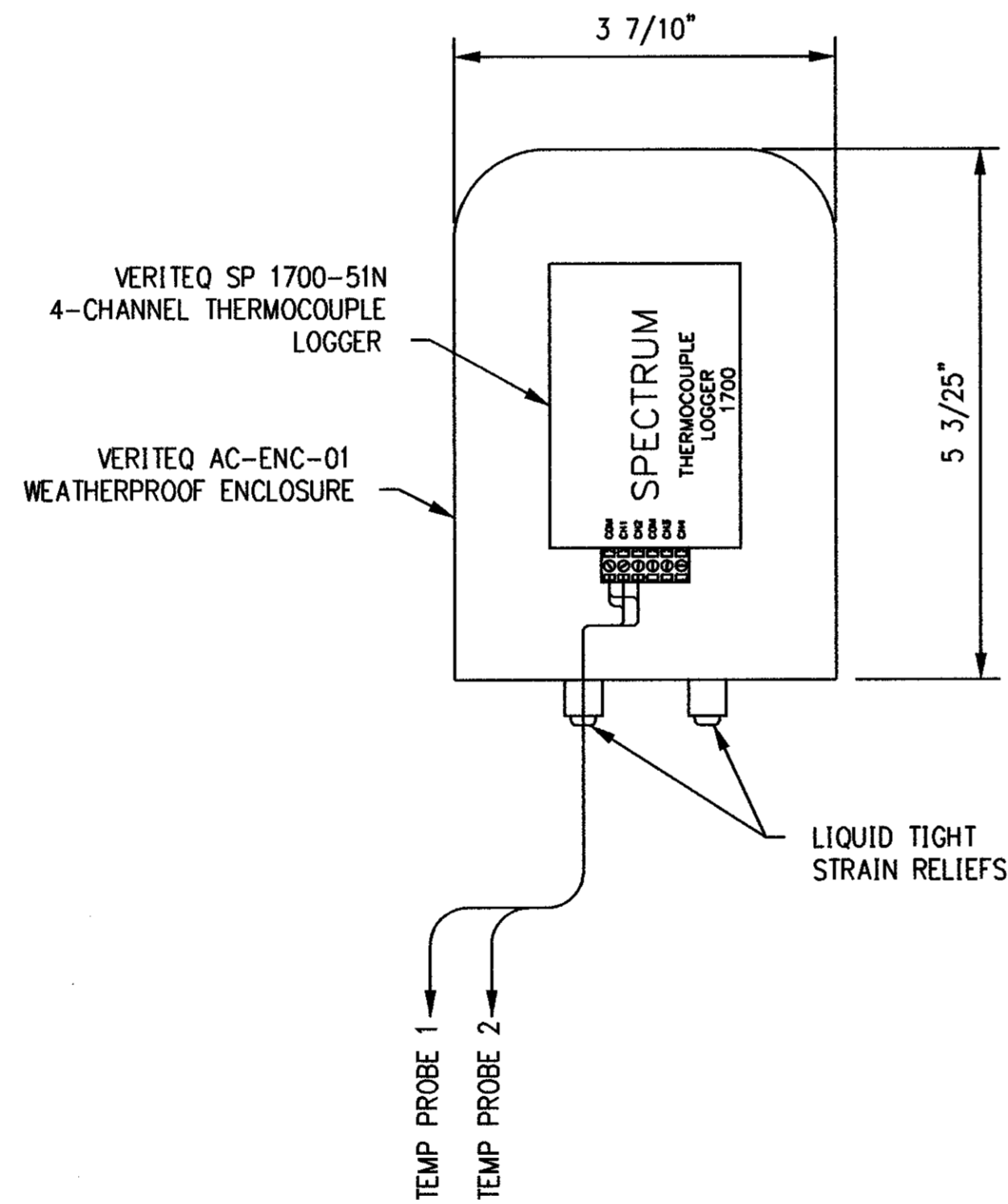
CONSTRUCTION JOINT DETAIL

DETAIL 1
NTS



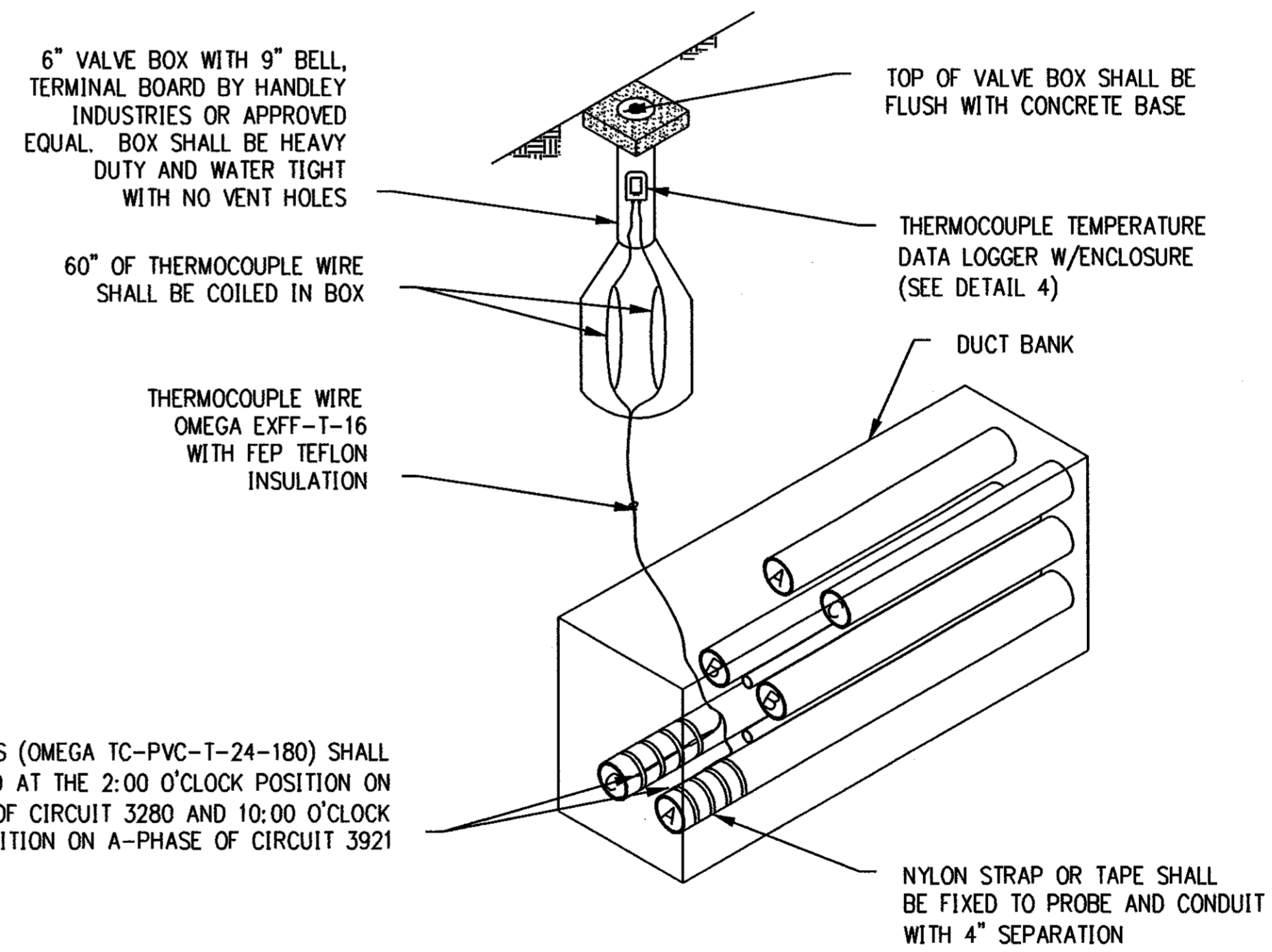
TYPICAL WARNING SIGN

DETAIL 2
NTS



THERMOCOUPLE TEMPERATURE DATA LOGGER

DETAIL 4
NTS



TEMPERATURE MONITORING STATION INSTALLATION

DETAIL 5
NTS

TEMPERATURE MONITORING STATION TABLE	
TMS #S	CENTER OF TMS
TMS #05	N 605,759.6611 E 818,094.6606
TMS #06	N 605,626.1414 E 819,370.7655
TMS #07	N 606,597.0622 E 821,111.4377
TMS #08	N 606,983.5426 E 822,299.0121
TMS #09	N 607,577.7222 E 824,146.2437
TMS #10	N 608,022.9223 E 825,733.9030
TMS #11	N 608,647.2377 E 826,972.9375
TMS #12	N 610,076.3556 E 828,321.8666
TMS #13	N 611,094.1367 E 829,154.0611
TMS #14	N 611,487.4096 E 830,415.3439
TMS #15	N 611,676.8788 E 832,369.9627
TMS #16	N 612,788.3921 E 832,578.8496
TMS #17	N 612,351.8879 E 834,472.6634
TMS #18	N 611,918.8894 E 836,053.7588
TMS #19	N 611,407.8334 E 837,558.8288
TMS #20	N 611,715.2465 E 839,254.3331
TMS #21	N 611,840.5242 E 840,565.5223
TMS #22	N 611,815.1526 E 842,284.0577
TMS #23	N 611,828.2142 E 843,734.2116
TMS #24	N 611,760.6005 E 845,614.6441
TMS #25	N 611,611.3396 E 847,364.9239
TMS #26	N 611,551.1712 E 848,685.4621

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DOCKET No. 272

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no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

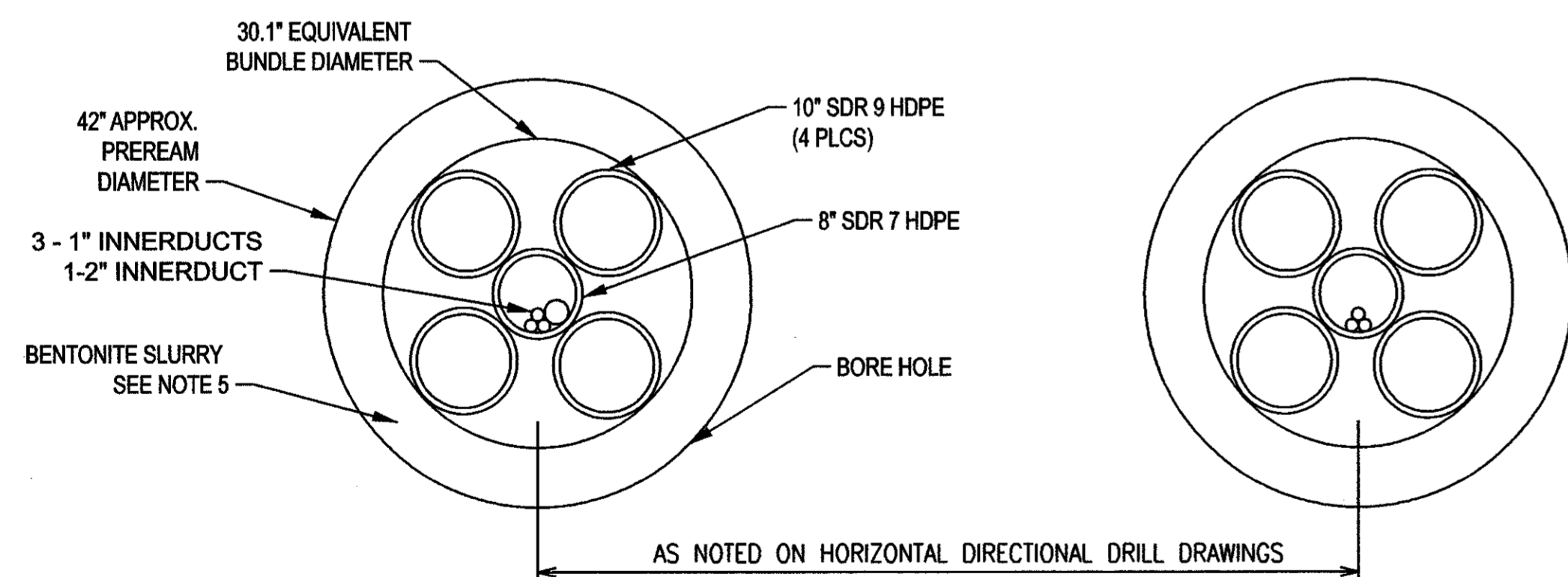
date 11/09/05 detailed L. ROWSE
designed C. COURTRIGHT checked S. NEWLAND

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

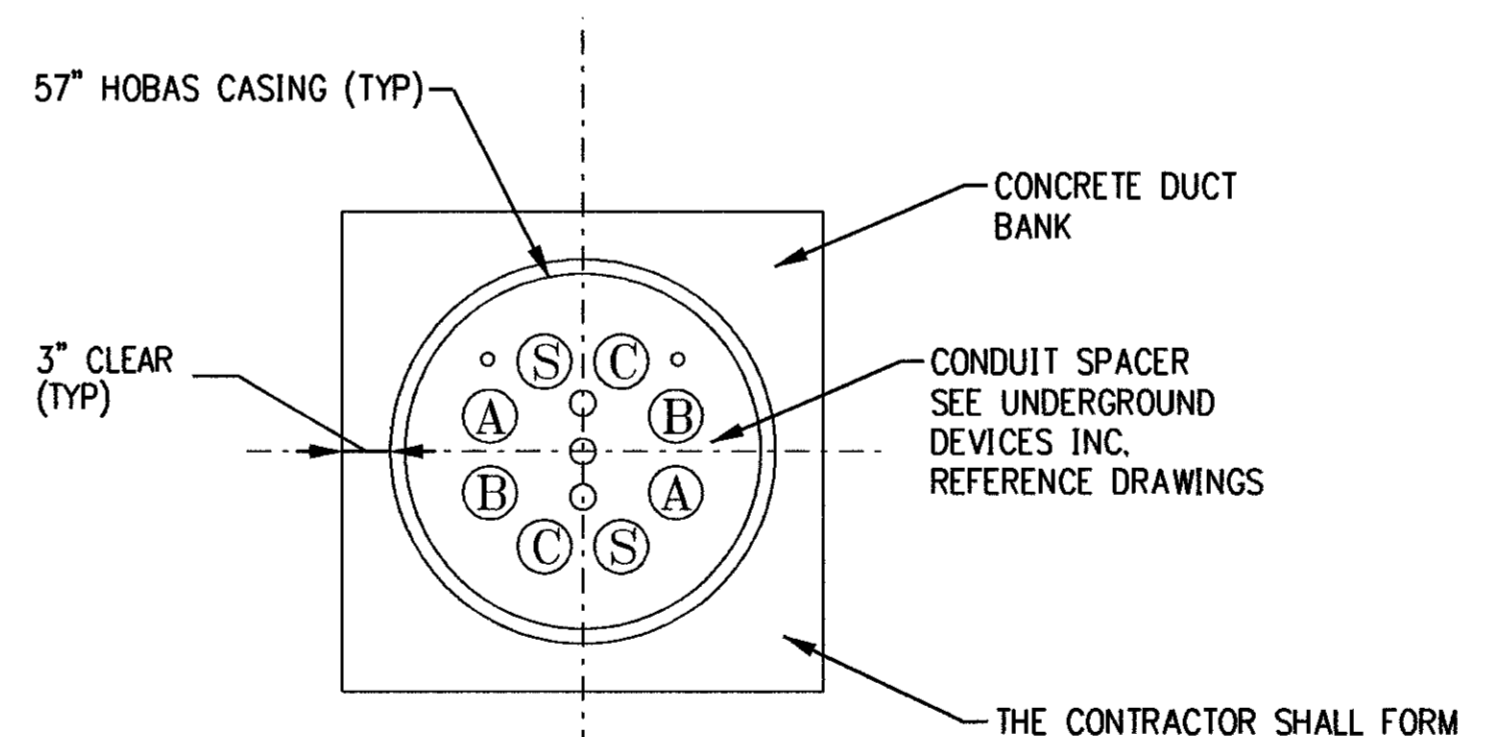
NORTHEAST UTILITIES SERVICE CO.
FOR THE CONNECTICUT LIGHT & POWER COMPANY
TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
CABLE AND TEMPERATURE MONITORING DETAILS

BY SEN-BMCD	CHKD	APP	APP
DATE 11-09-05	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO. 01224-46003	PG 005

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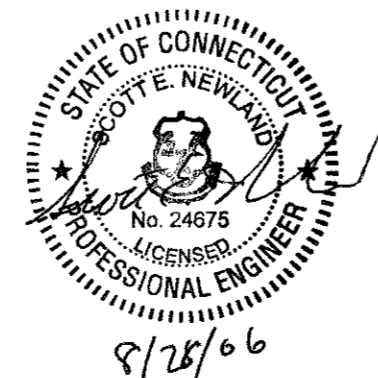
SECTION A
HORIZONTAL DIRECTIONAL DRILL
NTS



SECTION B
JACK AND BORE
NTS

NOTES:

1. ALL CASING SHALL BE COMPLETELY FILLED WITH A THERMALLY ACCEPTABLE GROUT. GROUT MIX DESIGN SHALL MEET PROJECT SPECIFICATIONS.
2. GROUT SAMPLES SHALL BE SUBMITTED TO THE TEST COMPANY (CONTACT TEST COMPANY FOR APPROPRIATE SIZE & METHOD OF TRANSPORTATION) IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONTRACTOR SHALL FURNISH AND INSTALL CASING PIPE SPACER. SPACERS SHALL BE INSTALLED A MAXIMUM DISTANCE OF 5 FEET APART. SPACERS SHALL BE INSTALLED PER MANUFACTURES RECOMMENDATIONS.
4. CONTRACTOR SHALL SUBMIT DETAILED DESIGN OF EACH BORED CROSSING FOR REVIEW, INCLUDING AS A MINIMUM WORK PLAN, EQUIPMENT AND MATERIALS TO BE USED, WORK AREAS, BORE PIT SIZES AND LOCATIONS.
5. BENTONITE SLURRY SAMPLES SHALL BE SUBMITTED TO THE TEST COMPANY (CONTACT TEST COMPANY FOR APPROPRIATE SIZE & METHOD OF TRANSPORTATION) IN ACCORDANCE WITH THE SPECIFICATIONS.



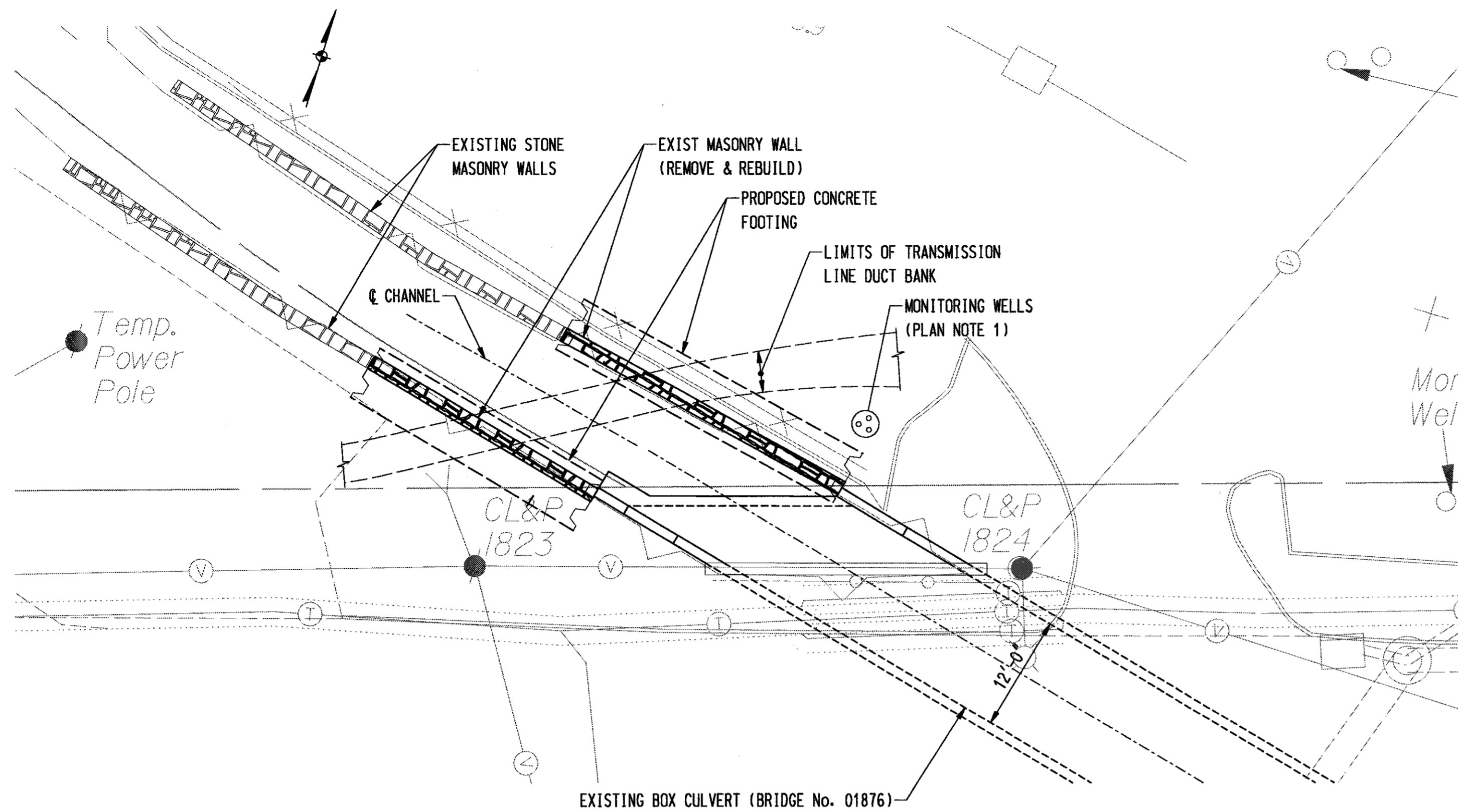
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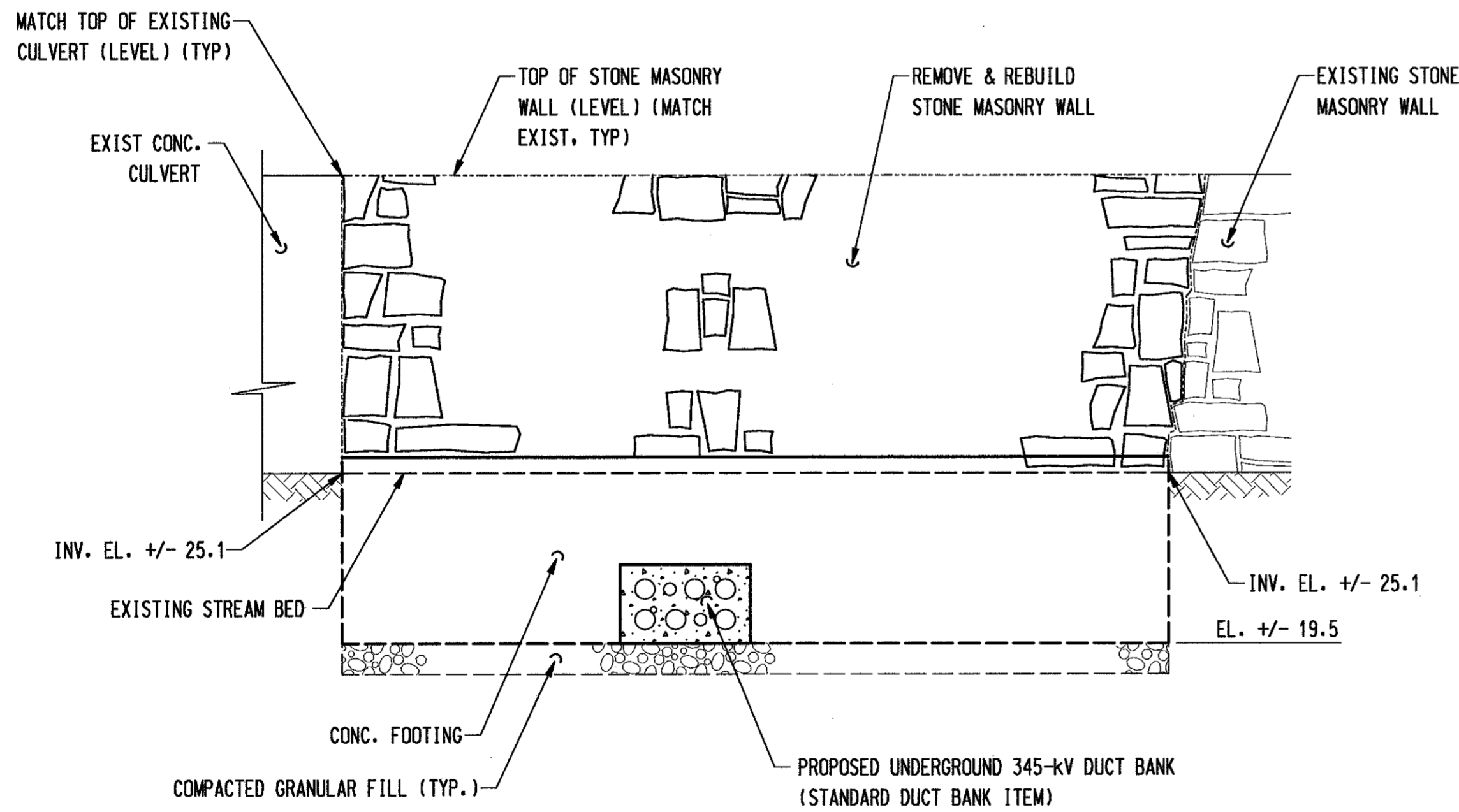


date 6/15/06 detailed L. ROWSE
designed C. COURTRIGHT checked S. NEWLAND

NORTHEAST UTILITIES SERVICE CO.									
FOR THE CONNECTICUT LIGHT & POWER COMPANY									
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT HORIZONTAL DIRECTIONAL DRILL AND JACK AND BORE SECTIONS									
BY SEN-BMCD	CHKD	APP	APP						
DATE 6/15/06	DATE	DATE	DATE						
SCALE AS NOTED	D		DWG. NO.	01224-46003 PG 006					
MF NO.	DATE	REVISIONS	BY	CHK	APP	APP			
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC						
no.	date	revisions	by	chk					

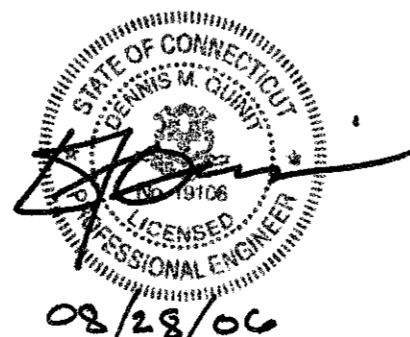


PLAN
SCALE: 1" = 10'



ELEVATION
SCALE: 1/4" = 1'

CONCRETE DISTRIBUTION		
SUPERSTRUCTURE	C.Y.	0
SUBSTRUCTURE	C.Y.	0
FOOTINGS	C.Y.	10
TOTAL	C.Y.	10



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DOCKET No. 272

TABLE OF QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (EXCLUDING HANDLING OF WATER)	CY	250
HANDLING OF WATER- PRECAST CONCRETE BOX CULVERT	LS	1
COMPACTED GRANULAR FILL	CY	14
PERVIOUS STRUCTURE BACKFILL	CY	190
CLASS "A" CONCRETE	CY	80
DEFORMED STEEL BARS	LB	6000
TEMPORARY SHEET PILING LEFT-IN-PLACE	SF	180
DAMPROOFING	SY	145
REMOVE AND REBUILD RUBBLE MASONRY WALL	LS	1

MASONRY WALL NOTES:

1. THE CONTRACTOR SHALL REMOVE MASONRY WALLS TO THE LIMITS SHOWN. LIMITS SHOWN ON THE PLANS SHALL BE USED AS GUIDELINE ONLY. THE CONTRACTOR SHALL DETERMINE EXTENT OF ACTUAL WALL REMOVAL. HOWEVER, COST OF WALL REMOVAL BEYOND THE LIMITS SHOWN ON THE PLANS SHALL BE AT NO EXTRA COST TO THE OWNER.
2. THE CONTRACTOR SHALL SALVAGE STONE MASONRY TAKEN FROM THE EXISTING WALL TO BE UTILIZED IN REBUILDING THE WALL.
3. MORTAR FOR REBUILDING MASONRY WALL SHALL CONFORM TO THE REQUIREMENTS OF FORM 816 ARTICLE M.11.04.
4. THE MASONRY WALL SHALL BE REBUILT TO MATCH APPROXIMATE LOCATION OF THE EXISTING WALL.
5. THE FACE OF THE WALL SHALL BE PLUMB AND SHALL NOT INTRUDE WITHIN THE LIMITS OF THE CHANNEL OPENING.
6. THE CONTRACTOR SHALL PERFORM ALL NECESSARY DRESSING AND/OR SHAPING PRIOR TO LAYING STONE MASONRY. NO HAMMERING OR DRESSING WILL BE ALLOWED AFTER STONE HAS BEEN LAID.
7. MASONRY SHALL BE LAID IN COURSES, ROUGHLY LEVELED. THE BOTTOM COURSE SHALL COMPRISE OF LARGER STONES. ALL COURSES SHALL BE LAID HORIZONTALLY PARALLEL TO THE FOUNDATION. CONTRACTOR SHALL TAKE EXTRA CARE IN LAYING STONE WITHOUT JARRING OR MOVING UNDERLYING STONES.
8. EACH COURSE SHALL BE LAID ON A BED OF MORTAR AND SHALL BE RECESSED AND REPOINTED APPROXIMATELY 1/4" FROM THE FACE OF THE STONE.
9. IN THE EVENT THAT SALVAGED STONE MASONRY IS NOT SUFFICIENT TO REBUILD THE WALL, THE COST OF FURNISHING AND INSTALLING ADDITIONAL STONE MASONRY SHALL BE PAID FOR THROUGH AN ALLOWANCE.
10. COST OF BAGGED STONE AND WEEP HOLE SHALL BE INCLUDED IN THE ITEM FOR "PERVIOUS STRUCTURE BACKFILL"
11. WALL FOOTING SHALL NOT BE DOWELED INTO EXISTING CULVERT.
11. NO REINFORCEMENT BARS SHALL PASS THROUGH THE LIMITS OF DUCT BANK.

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816, SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2005.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (3rd EDITION, 2004), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003 EDITION), WITH REVISIONS UP TO AND INCLUDING 2005.

ALLOWABLE STRESSES:

CONCRETE
CLASS "A" CONCRETE BASED ON $f'c = 3,000$ PSI

REINFORCEMENT
(ASTM A619, GR. 60) BASED ON $f_y = 60,000$ PSI

FOUNDATION PRESSURES: THE VARIOUS LIMIT STATES NOTED ON THE PLANS REFER TO THE LIMITS STATES AS PROVIDED FOR IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS AND ELEVATIONS: WHEN DECIMAL DIMENSIONS AND ELEVATIONS ARE GIVEN TO LESS THAN TWO DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

ALL ELEVATIONS SHOWN ON THE PLANS ARE GIVEN DECIMAL FEET, UNLESS OTHERWISE NOTED.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. NO FIELD MEASUREMENTS HAVE BEEN TAKEN. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR THE REVIEWER'S REFERENCE.

CONCRETE NOTES

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR MASONRY WALL FOOTINGS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1", UNLESS OTHERWISE NOTED.

CONCRETE COVER: REINFORCEMENT SHALL HAVE 3" OF COVER, UNLESS OTHERWISE NOTED.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615, GRADE 60.

CONSTRUCTION JOINTS: CONSTRUCTION JOINT OTHER THAN THOSE SHOWN ON THE PLANS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

PLAN NOTES

1. CONTRACTOR SHALL LOCATE AND PROTECT MONITORING WELLS, COST SHALL BE INCLUDED IN THE GENERAL CONSTRUCTION COST.

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1	8/28/06	ISSUED FOR CONSTRUCTION	D.Q.	B.K.

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date 4/17/06
designed M. BEAULIEU
checked D. QUINT / B. KUTA

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

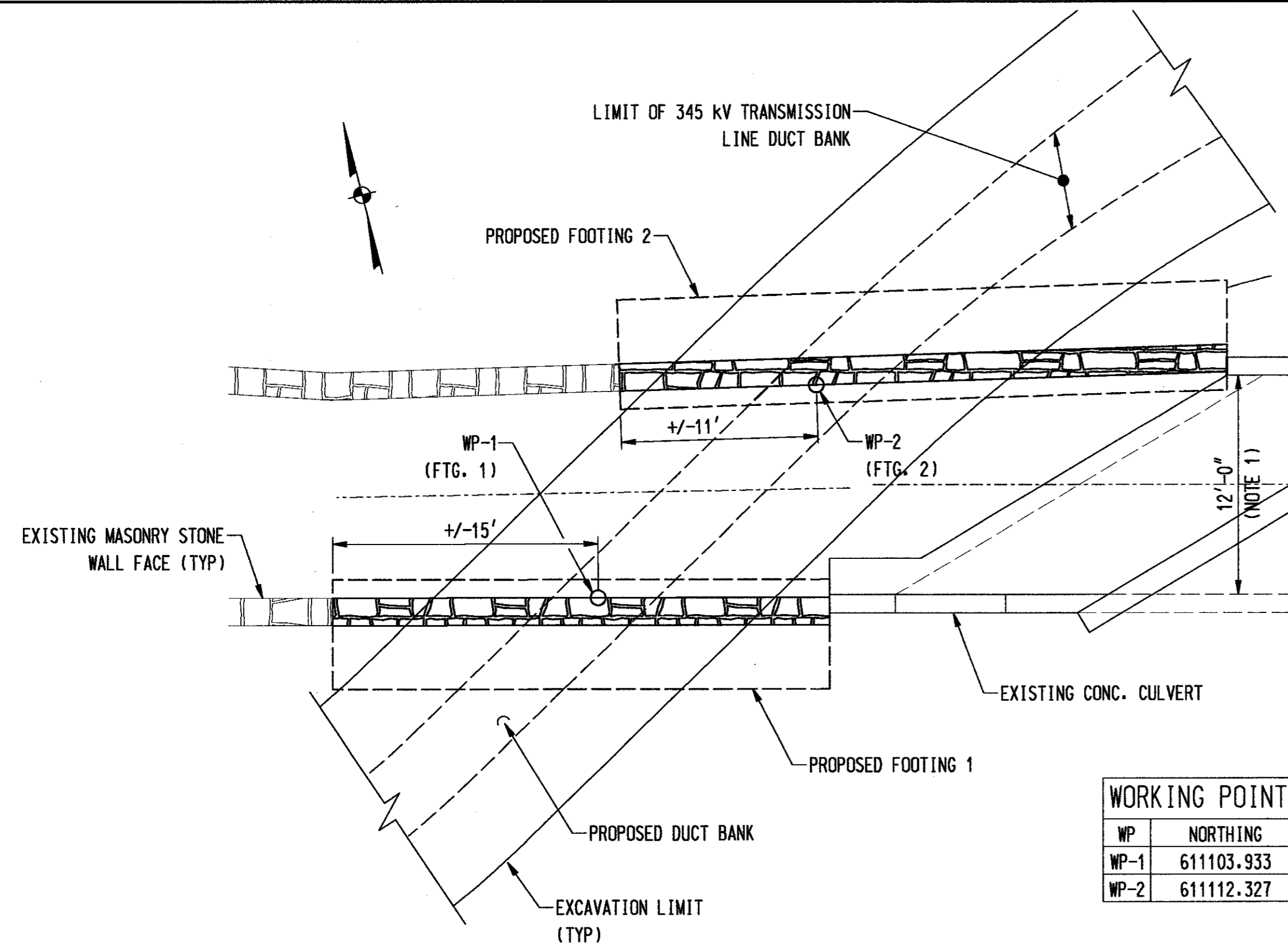
TITLE MIDDLETOWN-NORWALK 345kV TRANSMISSION PROJECT

STONY BROOK
GENERAL PLAN

BY D.Q.-BL	CHKD	APP	APP
DATE 4-17-06	DATE	DATE	DATE
SCALE AS NOTED		DWC. NO.	
	D	01224-71003	PG 002

LAYOUT PLAN NOTES:

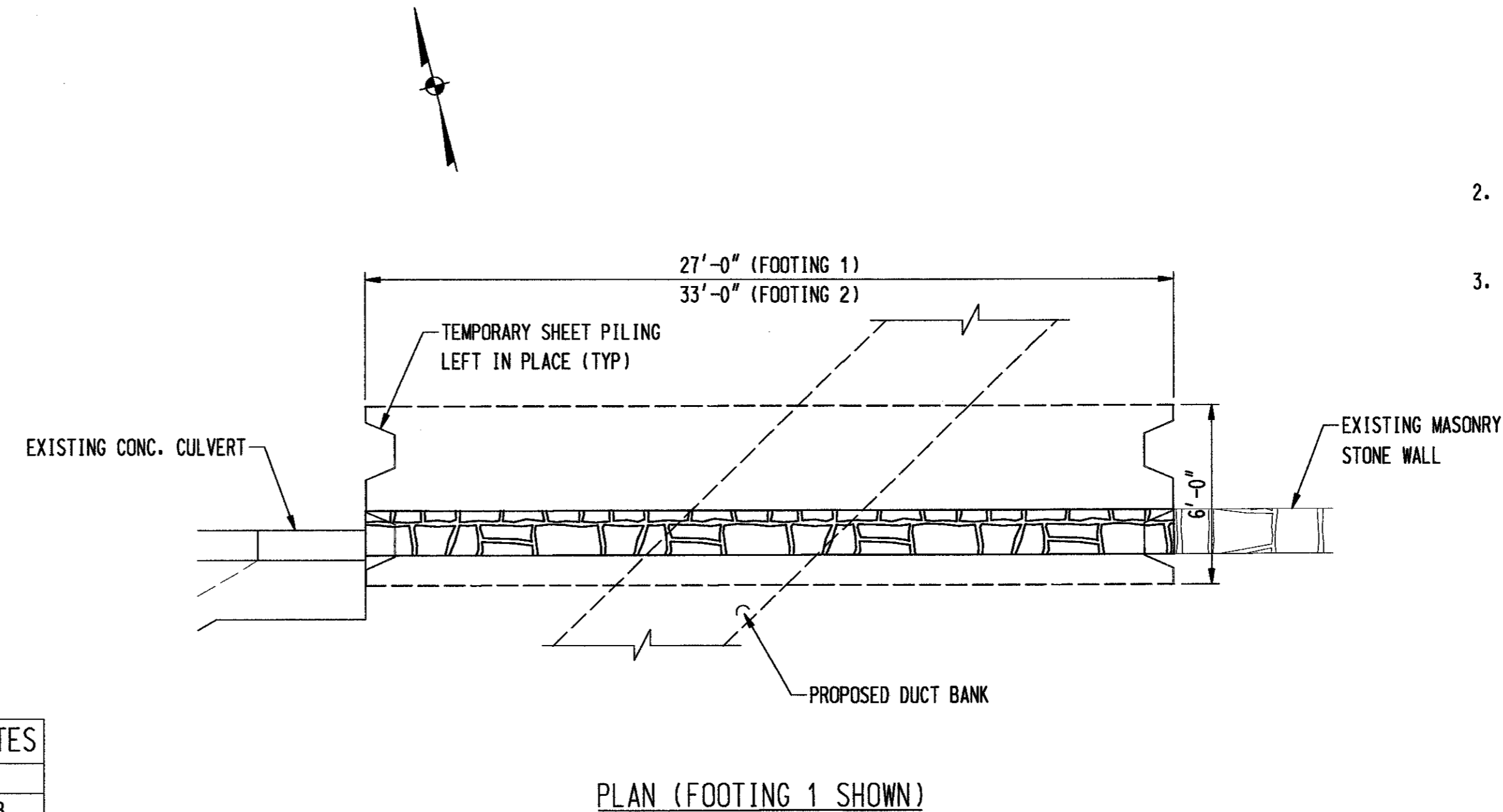
1. LOCATION OF CENTERLINE OF CHANNEL AS SHOWN ON THE LAYOUT PLAN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION OF THE EXISTING CHANNEL WALLS AND ADJUST WORKING POINT COORDINATES ACCORDINGLY (WORKING POINT COORDINATES SHALL BE TAKEN AT THE INTERSECTION OF THE FACE OF WALL AND THE DUCT BANK BASELINE). THE PROPOSED CHANNEL WALLS SHALL BE RECONSTRUCTED IN THEIR ORIGINAL LOCATIONS.
2. COST OF TEMPORARY COFFERDAM SHALL BE INCLUDED IN THE ITEM "HANDLING WATER".
3. COST OF SEDIMENTATION BASIN, INCLUDING SEDIMENTATION BARRIER, SHALL BE INCLUDED IN THE ITEM "HANDLING WATER".



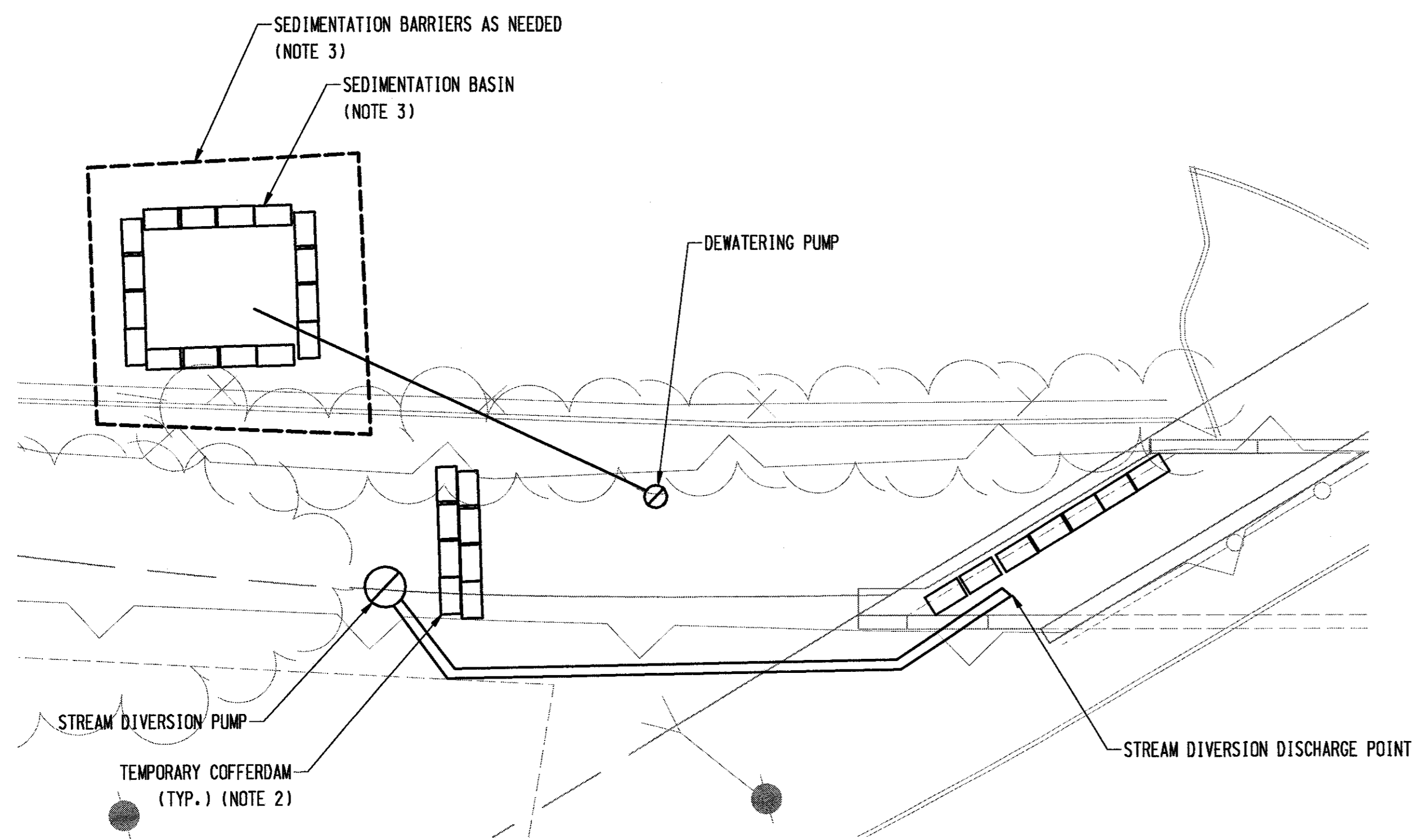
WORKING POINT COORDINATES		
WP	NORTHING	EASTING
WP-1	611103.933	829146.888
WP-2	611112.327	829161.270

LAYOUT PLAN

N.T.S.

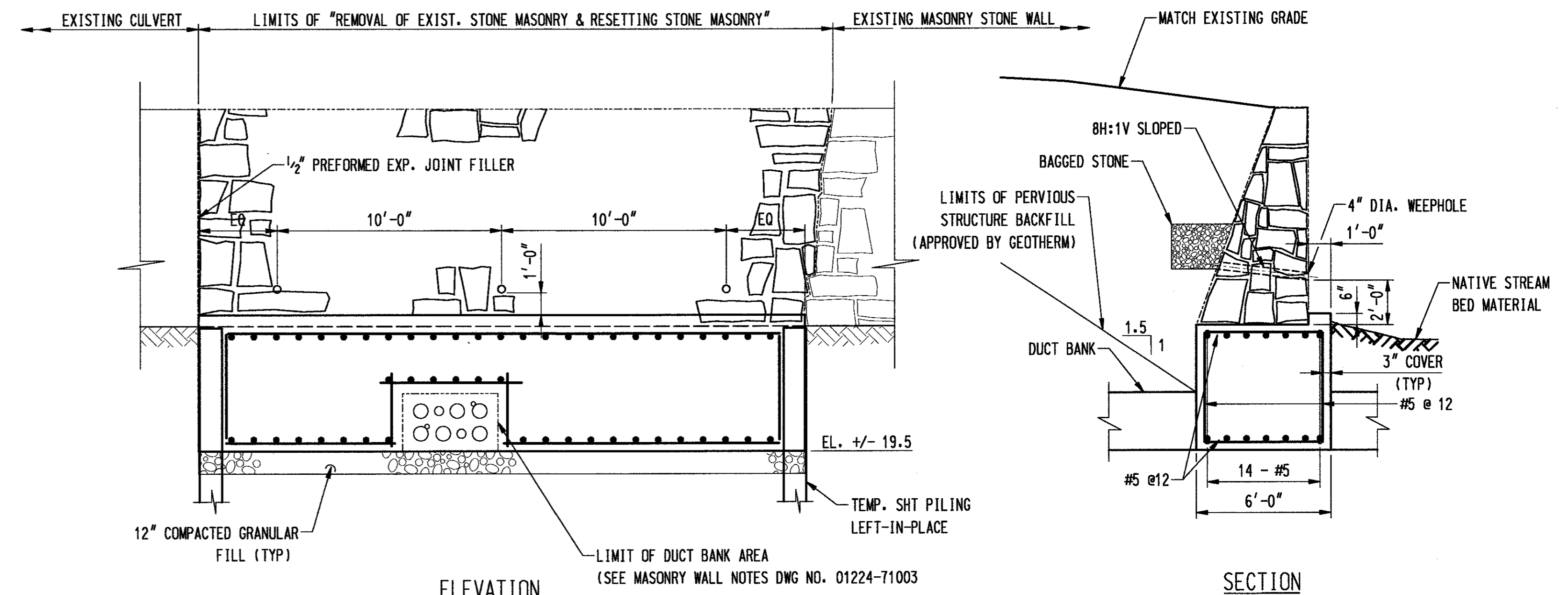


PLAN (FOOTING 1 SHOWN)



HANDLING OF WATER PLAN

N.T.S.



ELEVATION

SECTION

WALL FOOTING DETAIL

SCALE: 1/4" = 1'-0"

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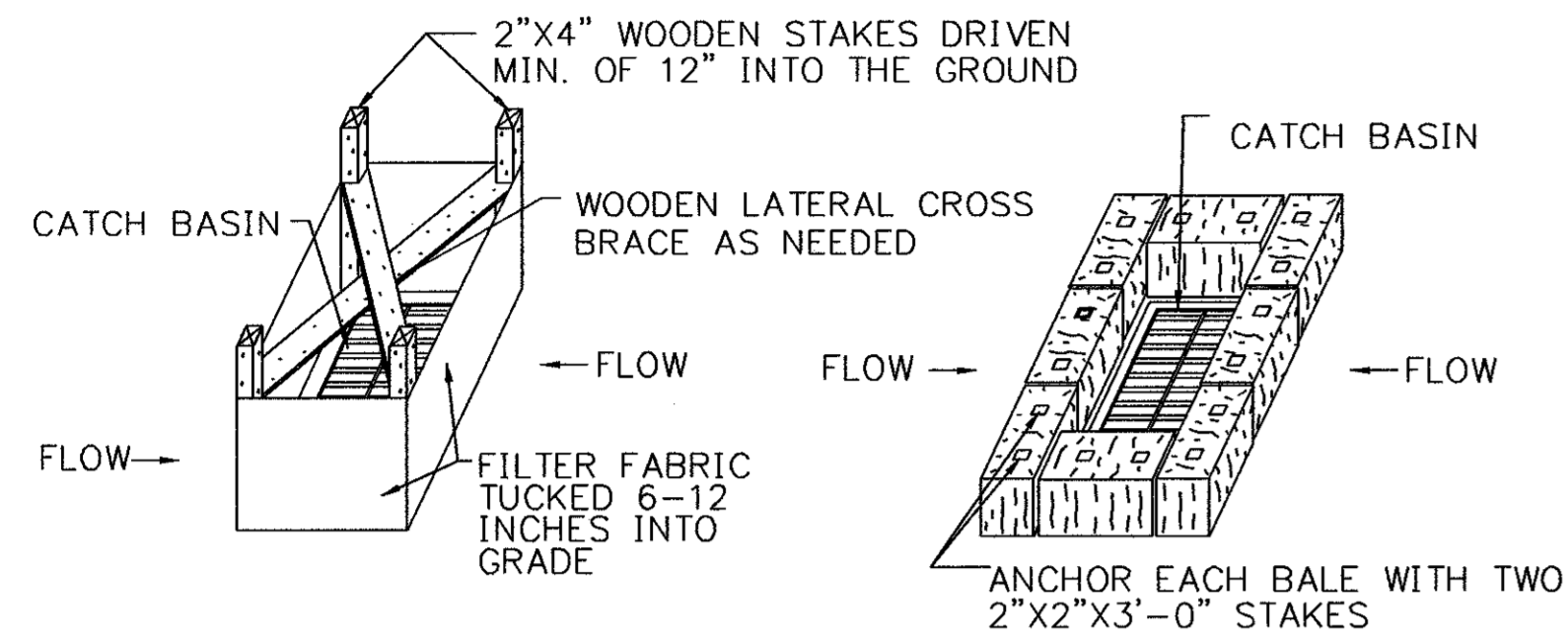
DOCKET No. 272

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	D.Q.	B.K.

date	4/17/06	detailed	M. BEAULIEU C. CHUANG
designed	M. BEAULIEU	checked	B. KUTA/D. QUINT

MF	NO.	DATE	REVISIONS	BY	CHK	APP	APP

NORTHEAST UTILITIES SERVICE CO.			
FOR THE CONNECTICUT LIGHT & POWER COMPANY			
TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT STONY BROOK LAYOUT PLAN, HANDLING OF WATER PLAN & WALL FOOTING DETAIL			
BY D.O.-BL	CHKD	APP	APP
DATE 4-17-06	DATE	DATE	DATE
SCALE AS NOTED	D	DWG. NO.	PG 003
		01224-71003	



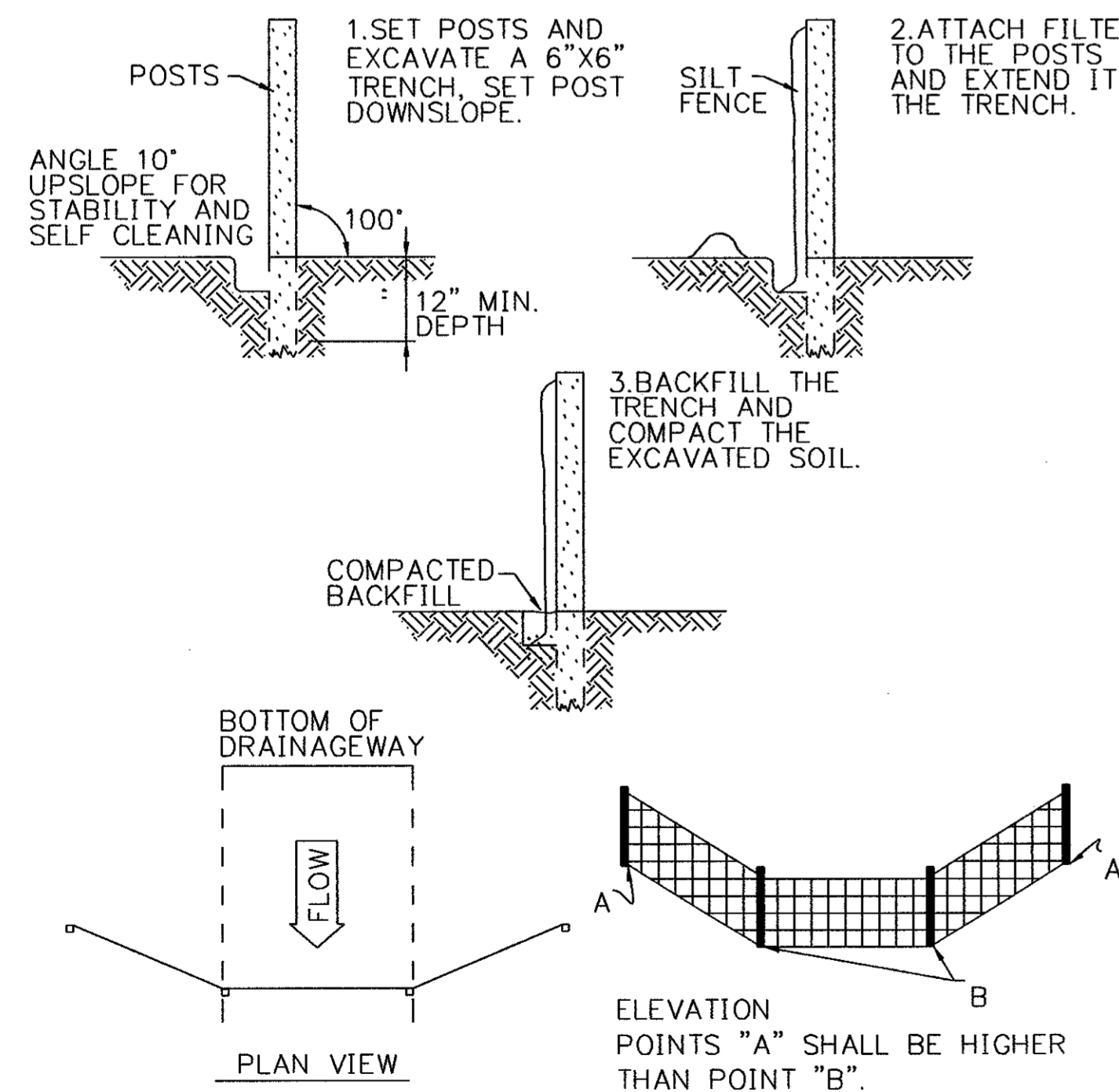
SILT FENCE INSTALLATION AT CATCH BASINS AT LOW POINTS

HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS

STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, SHALL BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. SEDIMENT SHALL BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.

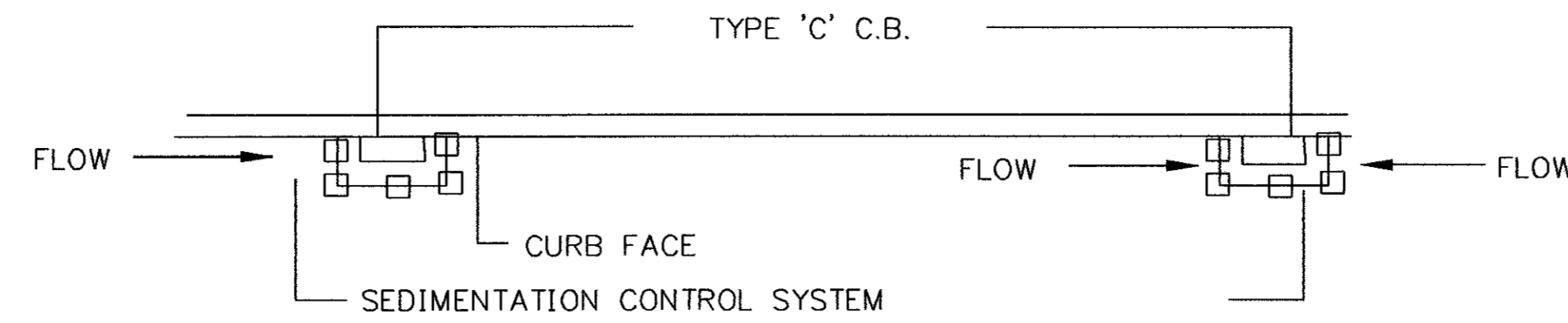
CATCH BASIN EROSION CONTROL

DETAIL 1 NTS



GEOTEXTILE SILT FENCE BARRIER W/OUT HAYBALES

DETAIL 6 NTS



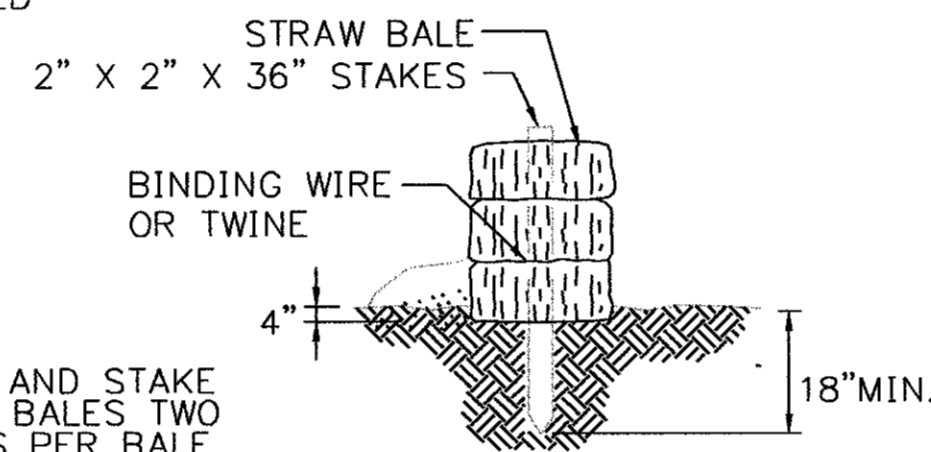
PLAN FOR TYPE 'C' C.B. (ON GRADE)

PLAN FOR TYPE 'C' C.B. (AT LOW POINT)

NOTE:

SEDIMENTATION CONTROL SYSTEMS SHALL BE LOCATED AT ALL EXISTING OR PROPOSED BASINS WHICH ACCEPT FLOW FROM THE CONSTRUCTION AREA UNTIL TURF ESTABLISHMENT OR AS DIRECTED BY THE ENGINEER.

DETAIL 2 NTS



PLACE AND STAKE STRAW BALES TWO STAKES PER BALE

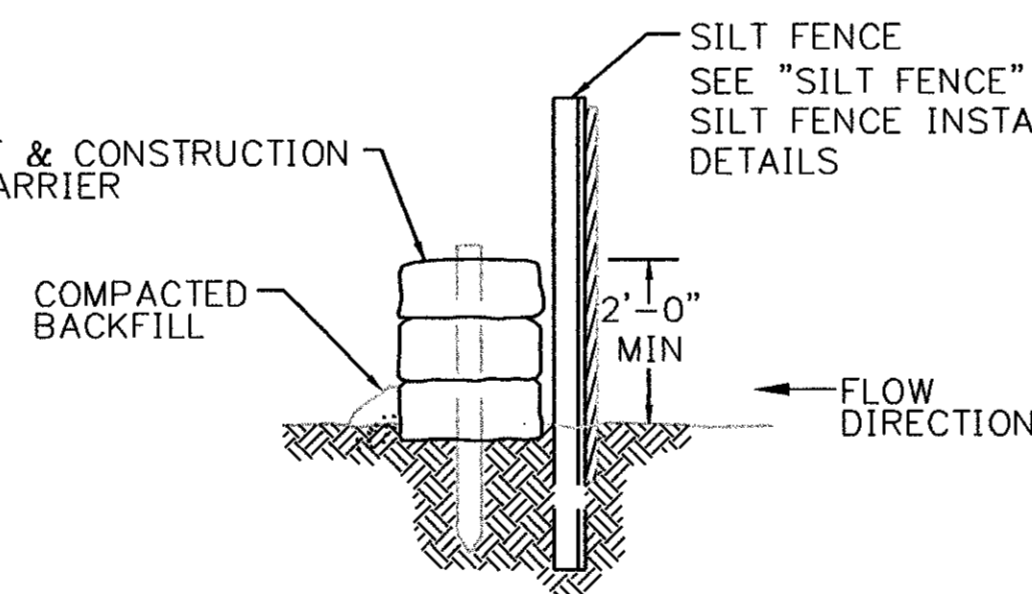
STRAW BALE BARRIERS SHALL NOT BE USED FOR MORE THAN 3 MONTHS

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER.

ANY SECTION OF STRAW BALE BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

DETAIL 4 NTS

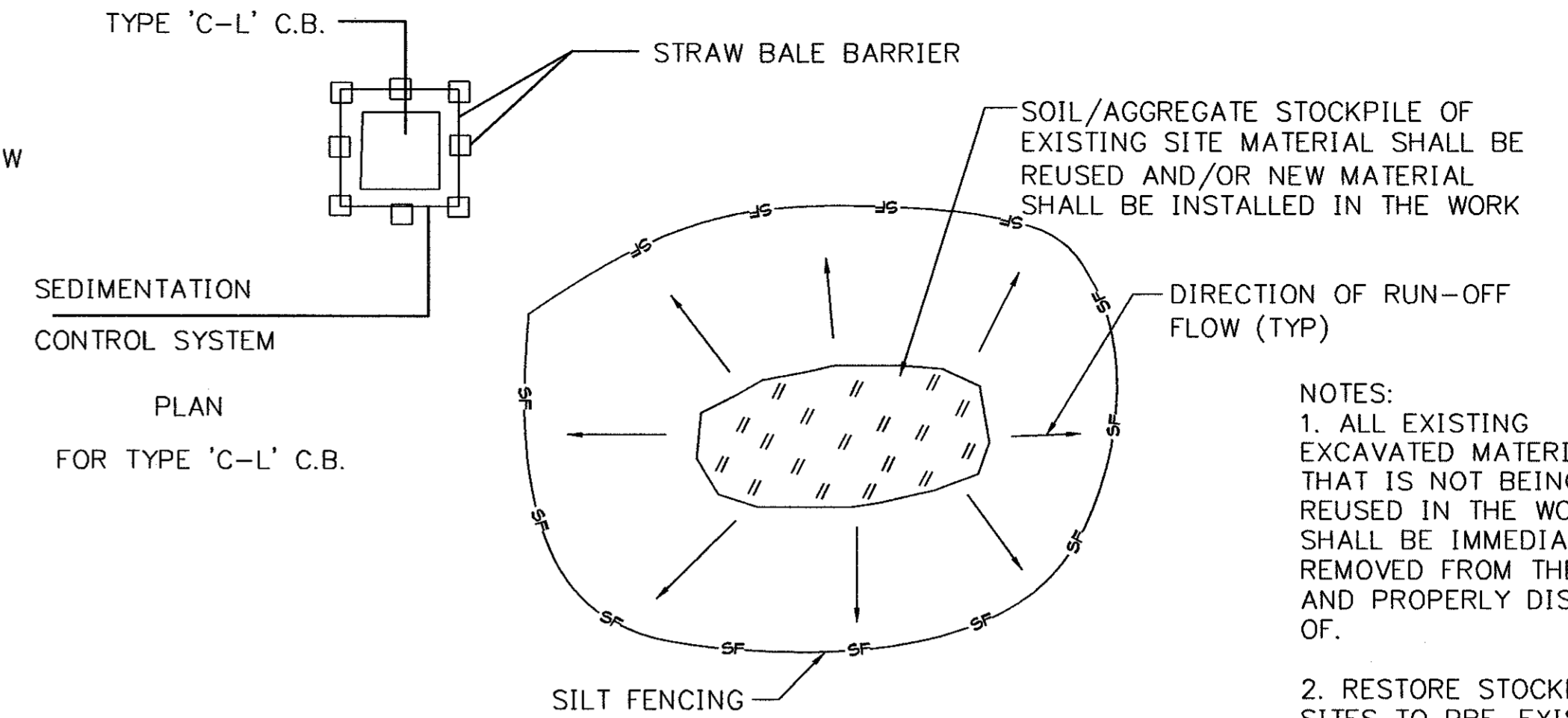
SEE "PLACEMENT & CONSTRUCTION OF HAY BALE BARRIER"



BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING

GEOTEXTILE SILT FENCE BARRIER W/ HAYBALES

DETAIL 7 NTS



SEDIMENTATION CONTROL SYSTEM PLAN FOR TYPE 'C-L' C.B.

MATERIALS STOCKPILE

DETAIL 3 NTS

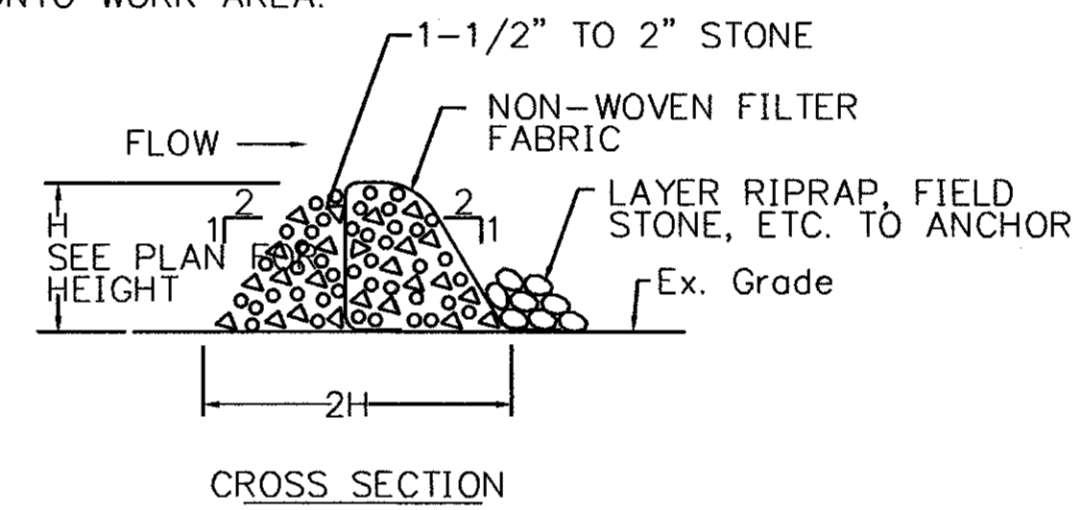
NOTES:
1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT BEING REUSED IN THE WORK SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

2. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

3. STOCKPILE HEIGHTS SHALL NOT EXCEED 35'. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.

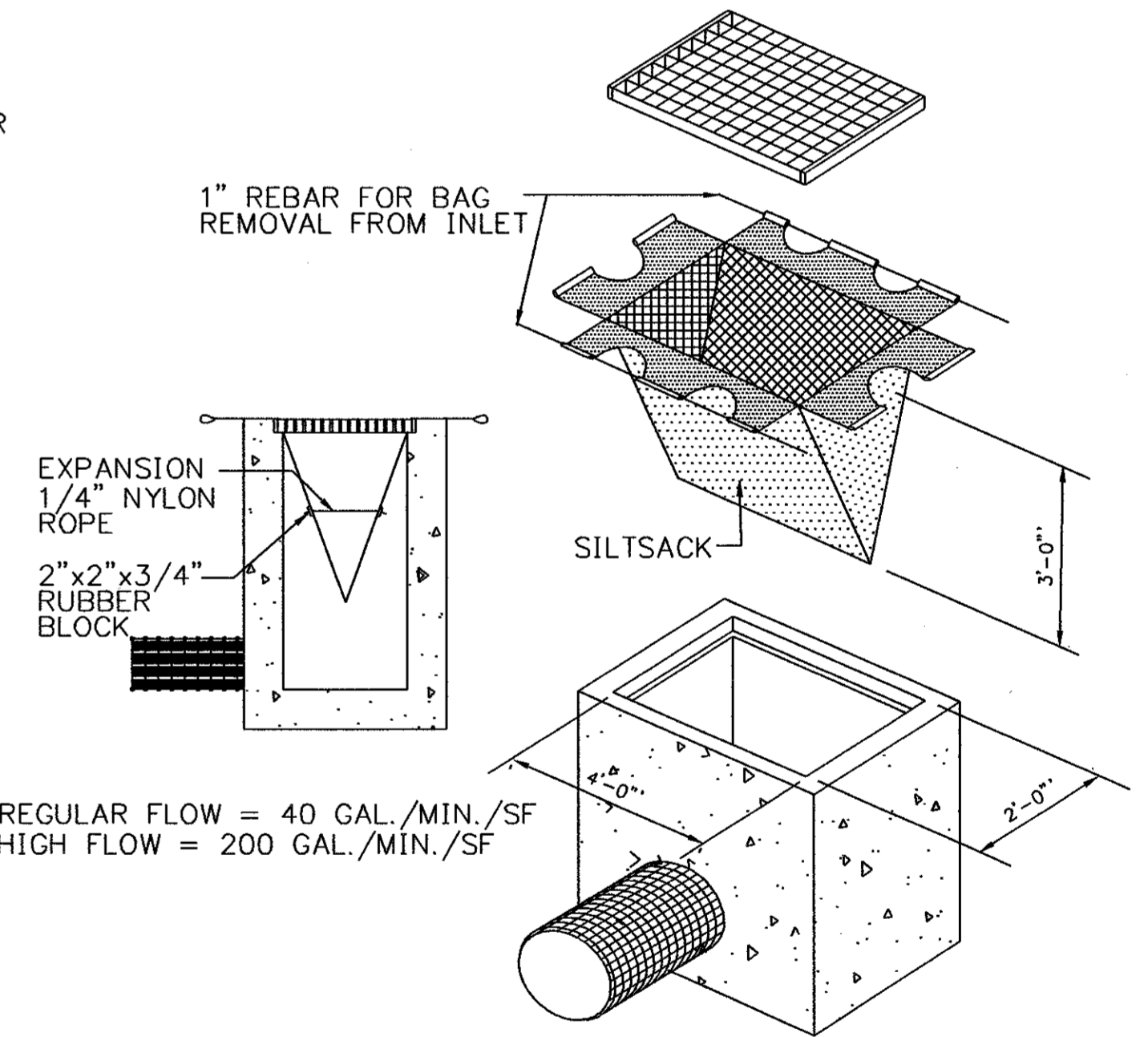
NOTE:

USE FOR IN-STREAM OR SWALE SEDIMENT INTERCEPTION. LOCATE NOT TO BACKWATER ONTO WORK AREA.



STONE FILTER BERM W/ FILTER FABRIC

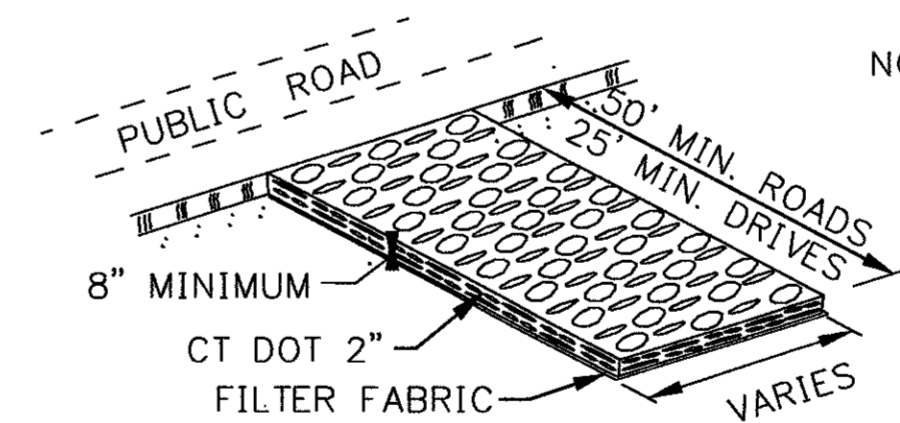
DETAIL 5 NTS



NOTE: REGULAR FLOW = 40 GAL./MIN./SF
HIGH FLOW = 200 GAL./MIN./SF

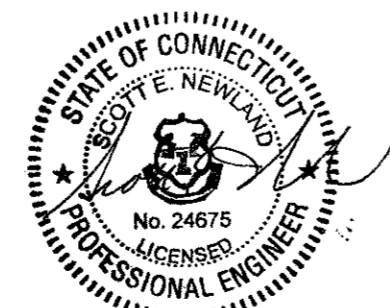
SILTSACK

DETAIL 9 NTS



CONSTRUCTION ENTRANCE

DETAIL 8 NTS



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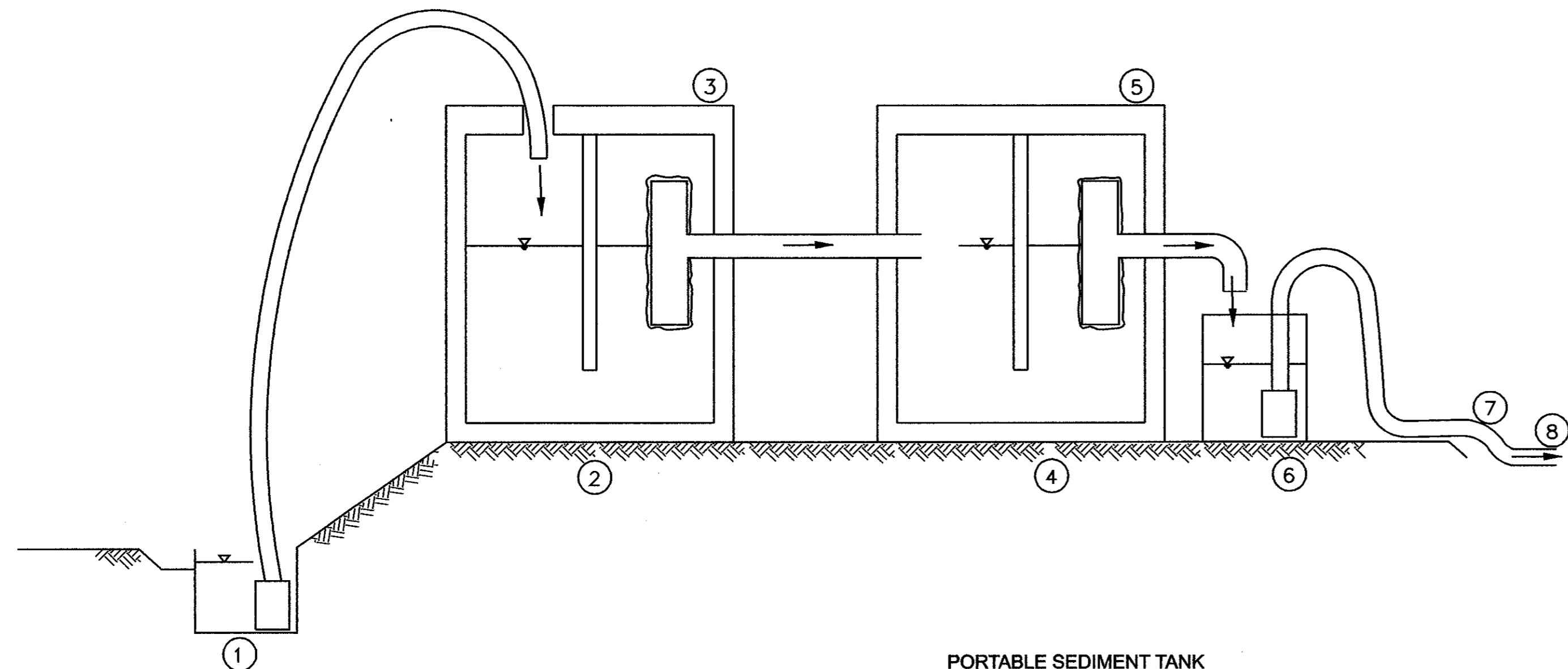
date 8/15/05
designed BL COMPANIES
checked S. NEWLAND

no.	date	revisions	by	chk
1	8/28/06	ISSUED FOR CONSTRUCTION	CTC	

MF NO.	DATE	REVISIONS	BY	CHK	APP	APP

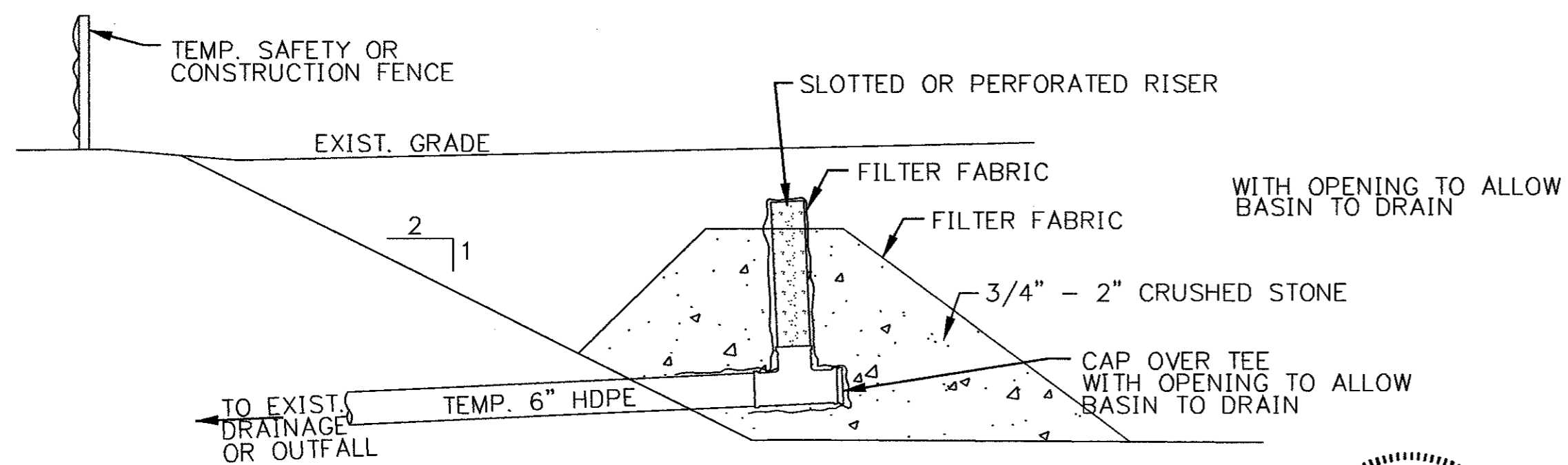
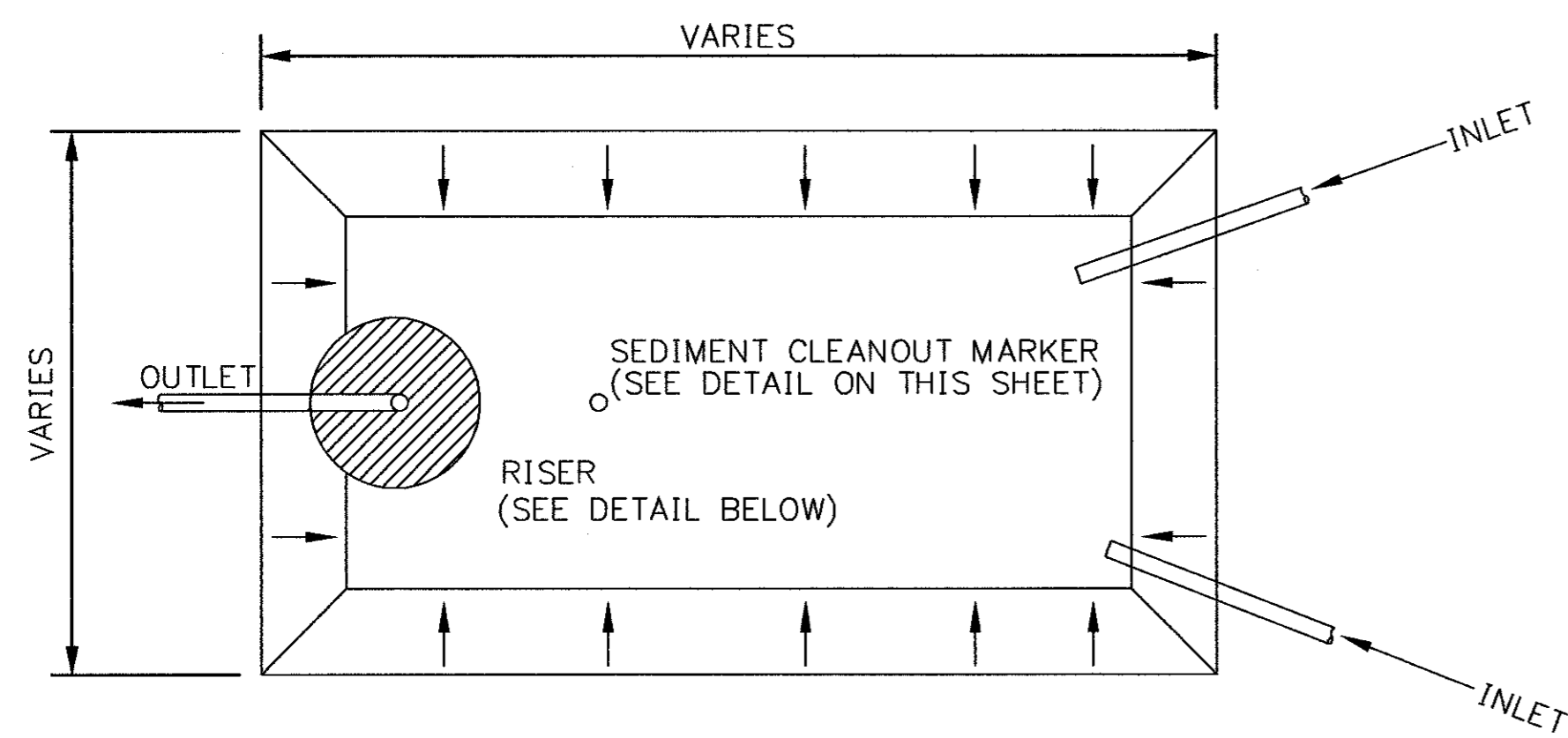
NORTHEAST UTILITIES SERVICE CO.
FOR THE CONNECTICUT LIGHT & POWER COMPANY
TITLE: MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT
EROSION CONTROL DETAILS

BY	CHKD	APP	APP
SEN-BMCD			
DATE 8-15-05	DATE	DATE	DATE
SCALE AS NOTED		D	DWG. NO. 01224-15003 PG 001

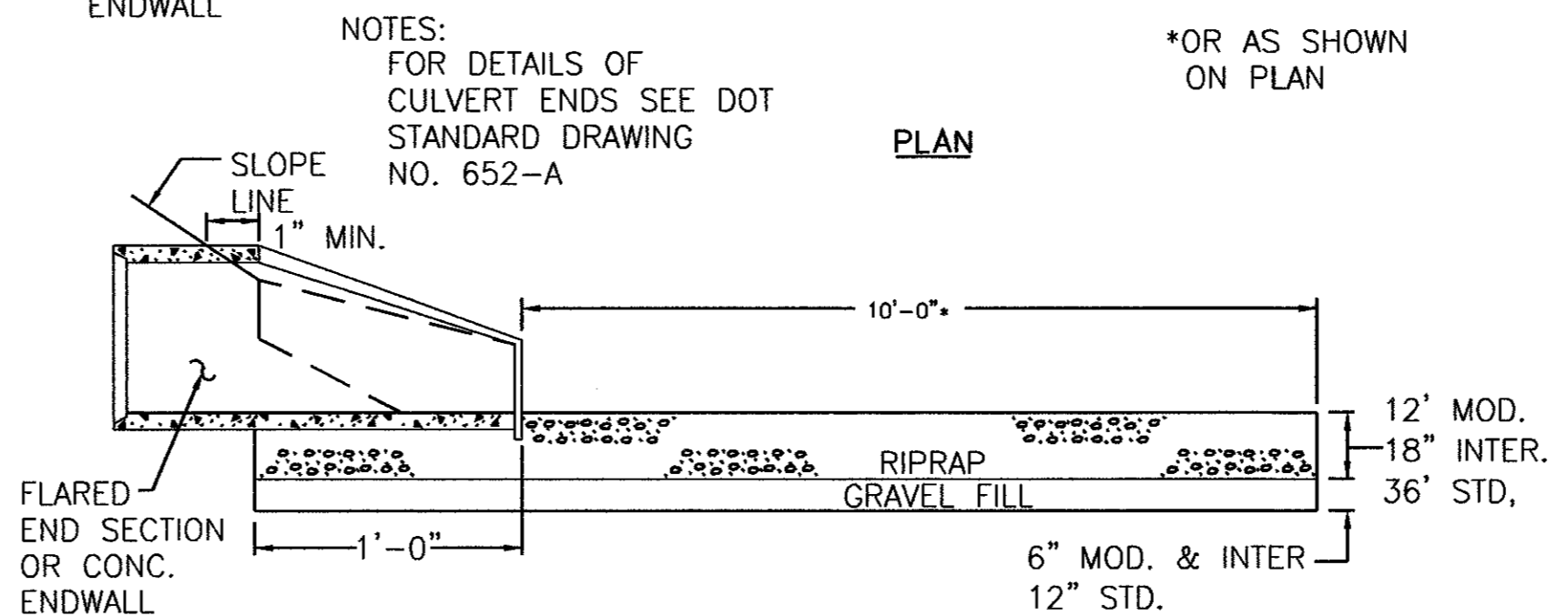
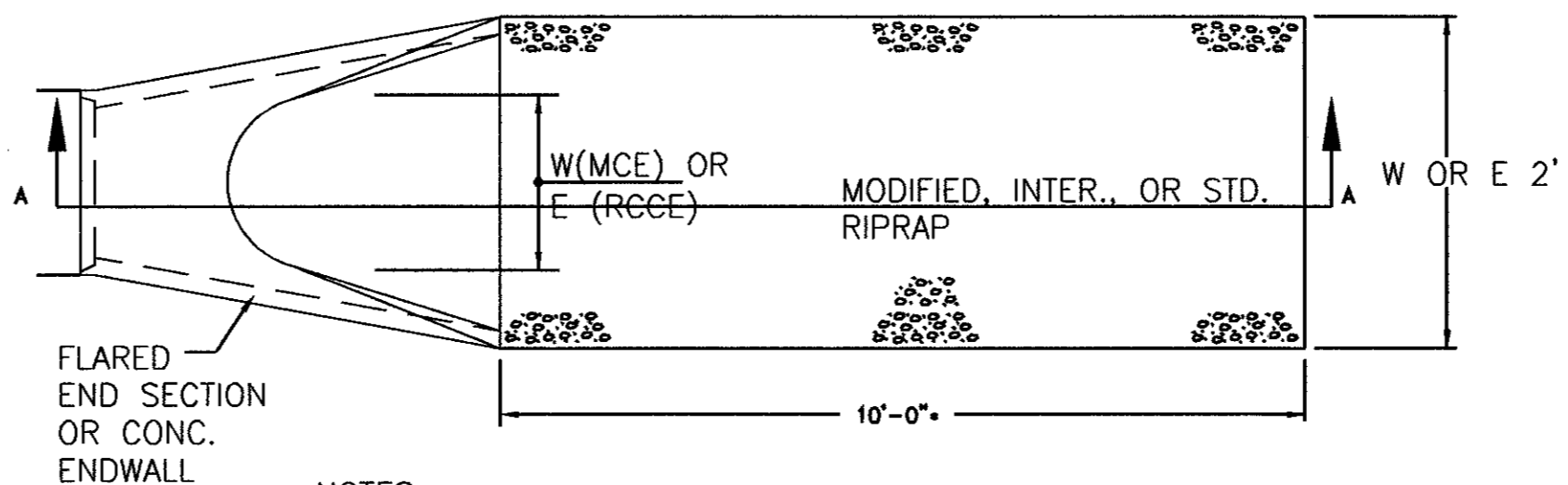


- NOTES
- ① 20 GPM TRASH PUMP DEWATERS FOUNDATION EXCAVATION
 - ② MUDDY WATER DISCHARGES TO 1,250 GAL SEPTIC TANK (OR DET. OUTLET STRUCTURE)
 - ③ 4" TEE OUTLET WRAPPED W/ FILTER FABRIC
 - ④ 1,250 GAL CLEAR WELL
 - ⑤ 2ND 4" TEE OUTLET WRAPPED W/ FILTER FABRIC
 - ⑥ 2ND PUMP IN 55 GAL DRUM (OR GRAVITY HOSE) DRAINS SYSTEM
 - ⑦ TEMP. OUTLET TO CATCH BASIN IN STREET
 - ⑧ 2-1,250 GAL. TANKS = 2,500 GAL. CAPACITY TOTAL

PORTABLE SEDIMENT TANK
 DETAIL NTS ①

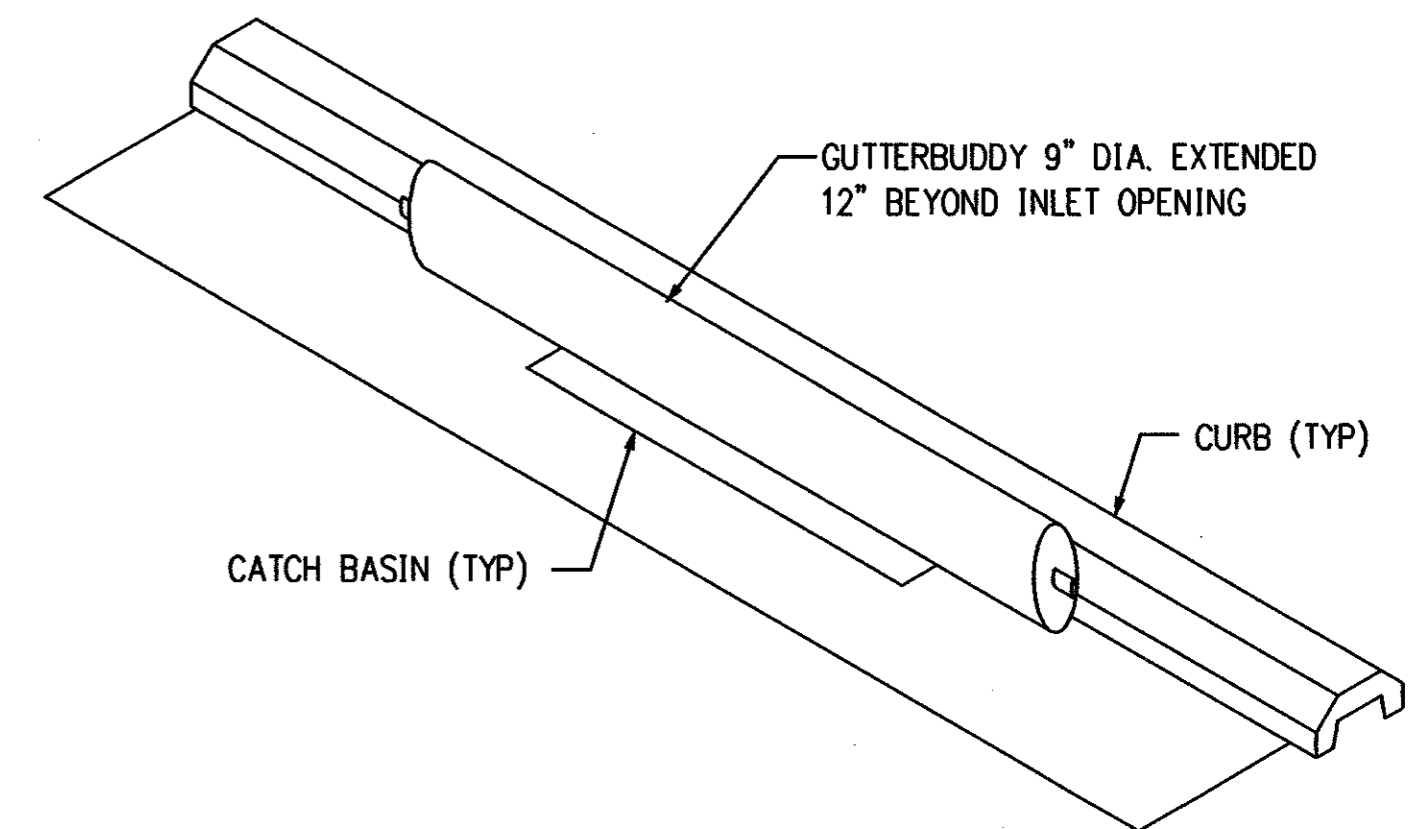


TEMPORARY SEDIMENT TRAP
 DETAIL NTS ②



RIPRAP TYPE "T" (INCHES)	
INTERMEDIATE	18
MODIFIED	12
STANDARD	36

LEVEL SPREADER
 DETAIL NTS ③



GUTTERBUDDY STORM DRAIN
 DETAIL NTS ④

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date 11/09/05
 designed BL COMPANIES
 detailed BL COMPANIES
 checked S. NEWLAND

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NORTHEAST UTILITIES SERVICE CO.

FOR THE CONNECTICUT LIGHT & POWER COMPANY

TITLE MIDDLETOWN-NORWALK 345KV TRANSMISSION PROJECT

EROSION CONTROL DETAILS

BY	CHKD	APP	APP
SEN-BMCD			
DATE 11-09-05	DATE	DATE	DATE
SCALE AS NOTED		DWG. NO.	01224-15003 PG 002