

EXHIBIT J

PLAN AND SECTION VIEWS

LEGEND

- BUS CONNECTION OR JOINT
- LOW BUS SUPPORT WITH A-FRAME
- R RIGID (FIXED) BUS CONNECTION
- S SLIP BUS CONNECTION
- EX EXPANSION BUS CONNECTION
- VOLTAGE TRANSFORMER
- BUS GROUNDING STUD
- METERING UNIT
- LIGHTNING MAST
- DISCONNECT SWITCH MOTOR OPERATOR
- DISCONNECT SWITCH GROUNDING SWITCH OPERATOR
- DISCONNECT SWITCH MANUAL OPERATOR

Substation Electric Operations Equipment, E#
Indicates Item No. on the Substation Material List.

Major Substation Structural Components or Assembly, YS#
Indicates Item No. on the Substation Material List.

CONDUCTOR LEGEND

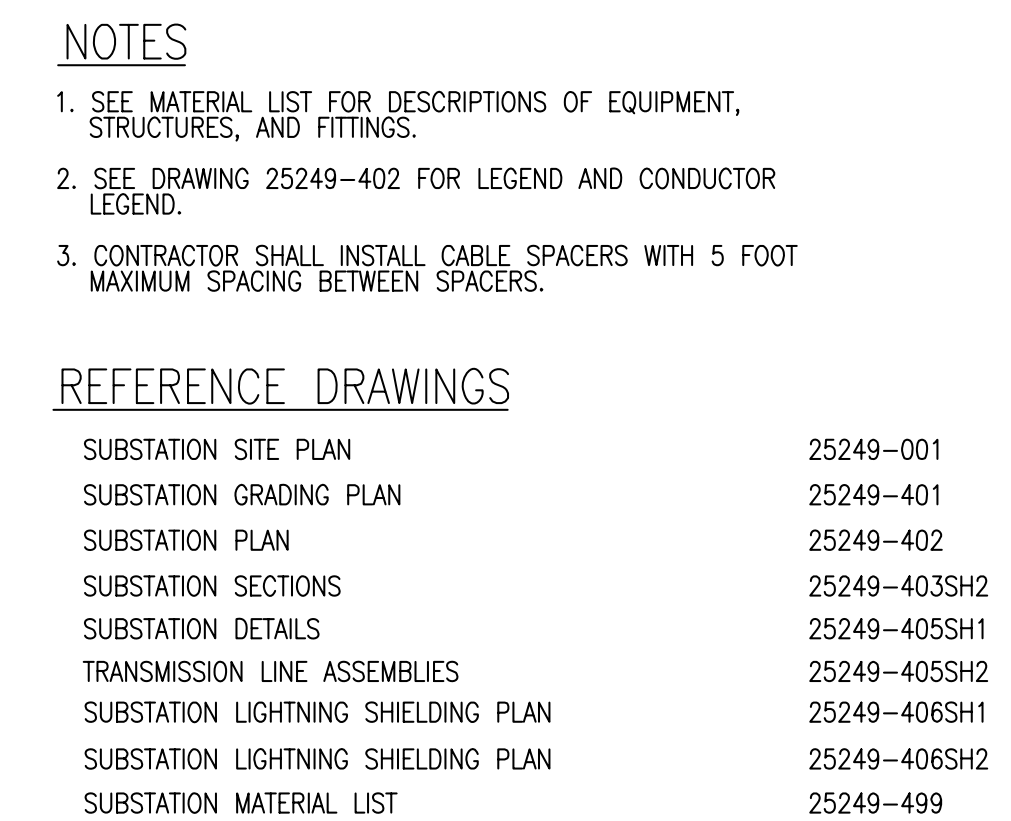
- 4" RIGID BUS SCH 40 (6063-T6 ALLOY)
- 785 KCMIL ACSR TERN 45/7 STRAND
- 1590 KCMIL ACSR LAP WING 45/7 STRAND
- 2-1590 KCMIL ACSR LAP WING 45/7 STRAND
- 2-1/2" RIGID BUS SCH 40 (6063-T6 ALLOY)
- 7/8" ALUMINUM

NOTE:

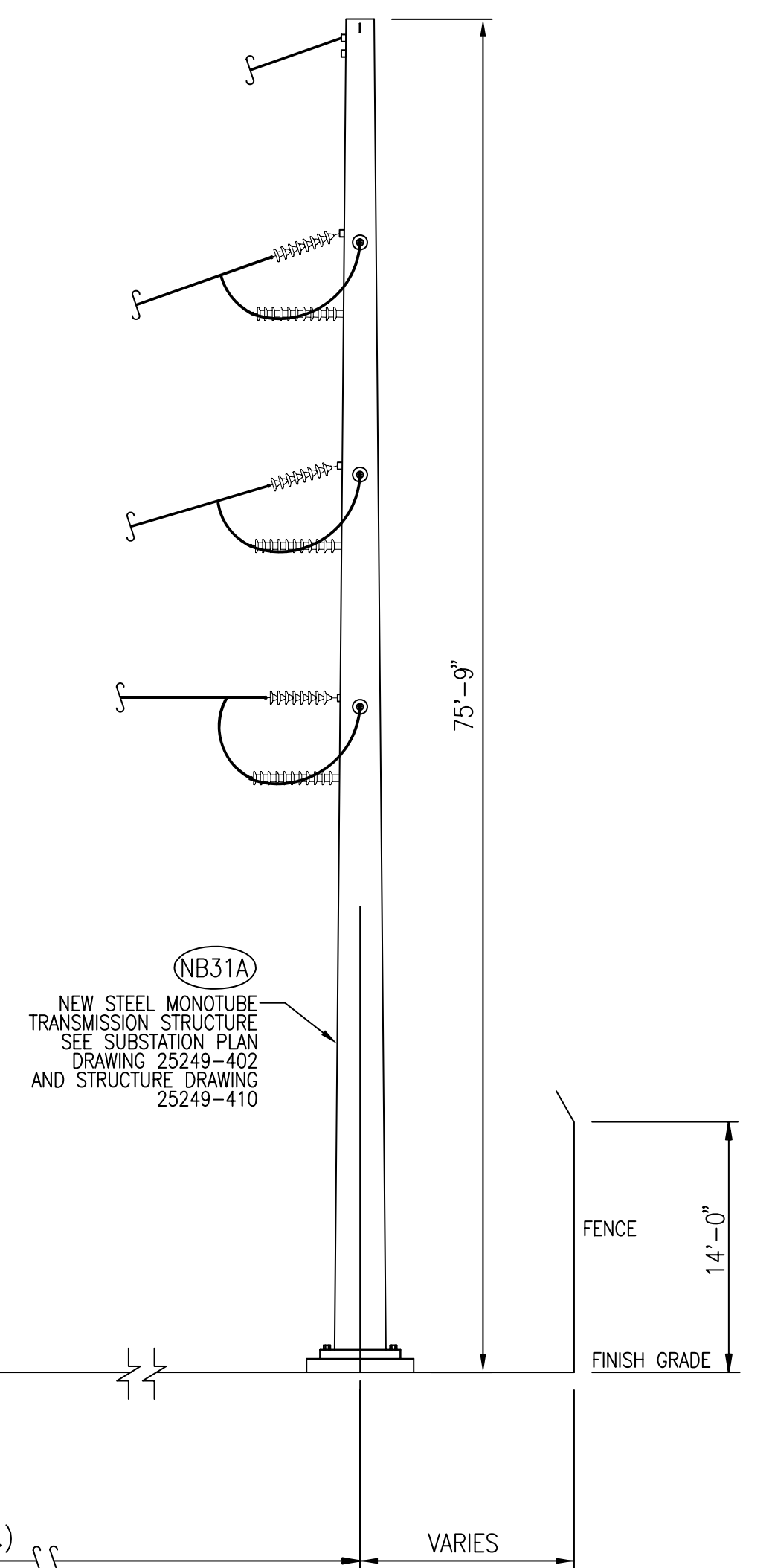
- THE CONDUCTOR SYMBOLS (C01) (C02) SHOWN TOGETHER INDICATE THE 795 KCMIL SHALL BE INSTALLED INSIDE THE 4" RIGID BUS THE ENTIRE LENGTH OF THE RIGID BUS AS A VIBRATION DAMPER.
- THE WESTERN BAY OF THE EXISTING STRUCTURE SHALL BE REMOVED AND FOUNDATIONS RAZED AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. THE EXISTING EASTERN BAY, MIDDLE STRUCTURAL MEMBERS AND FOUNDATIONS OF THE EXISTING STRUCTURE NB31 SHALL REMAIN. THE EXISTING CONTROL, COMMUNICATIONS, SCADA AND POWER CABINETS SHALL REMAIN IN SERVICE DURING AND AFTER CONSTRUCTION.
- THE EXISTING CHAIN LINK FENCE SURROUNDING STRUCTURE NB31 SHALL REMAIN AFTER INSTALLATION OF THE NEW TRUMBULL SUBSTATION FENCE AND GATES IS COMPLETE.
- CONTRACTOR SHALL FILL AND GRADE TO THE FINAL CONTOURS SHOWN ON DRAWING 401 AFTER STRUCTURE REMOVAL AND FOUNDATION RAZING.
- CONSTRUCT FOUNDATION AND ERECT NEW STRUCTURE NB 31A AT THE INTERSECTION OF THE CENTRELINE OF THE NEW SOUTH BUS AND EXISTING MIDDLE CONDUCTOR OF LINE 1713.

REFERENCE DRAWINGS

- SUBSTATION SITE PLAN
 - SUBSTATION GRADING PLAN
 - TRUMBULL SUBSTATION SCADA
 - SUBSTATION SECTIONS
 - SUBSTATION DETAILS
 - TRANSMISSION LINE ASSEMBLIES
 - SUBSTATION LIGHTNING SHIELDING PLAN
 - SUBSTATION MATERIAL LIST
- 25249-001
25249-401
25249-405SH1
25249-405SH2
25249-405SH3
25249-405SH4
25249-405SH5
25249-405SH6
25249-405SH7
25249-405SH8
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SECTION 1
SCALE: 1/8"=1'-0"
(SEE DWG 25249-402)



SECTION 2
SCALE: 1/8"=1'-0"
(LIGHTNING MAST NOT SHOWN FOR CLARITY)
(SEE DWG 25249-402)

8' 4' 0 8' 16'

$1/8' = 1' - 0''$

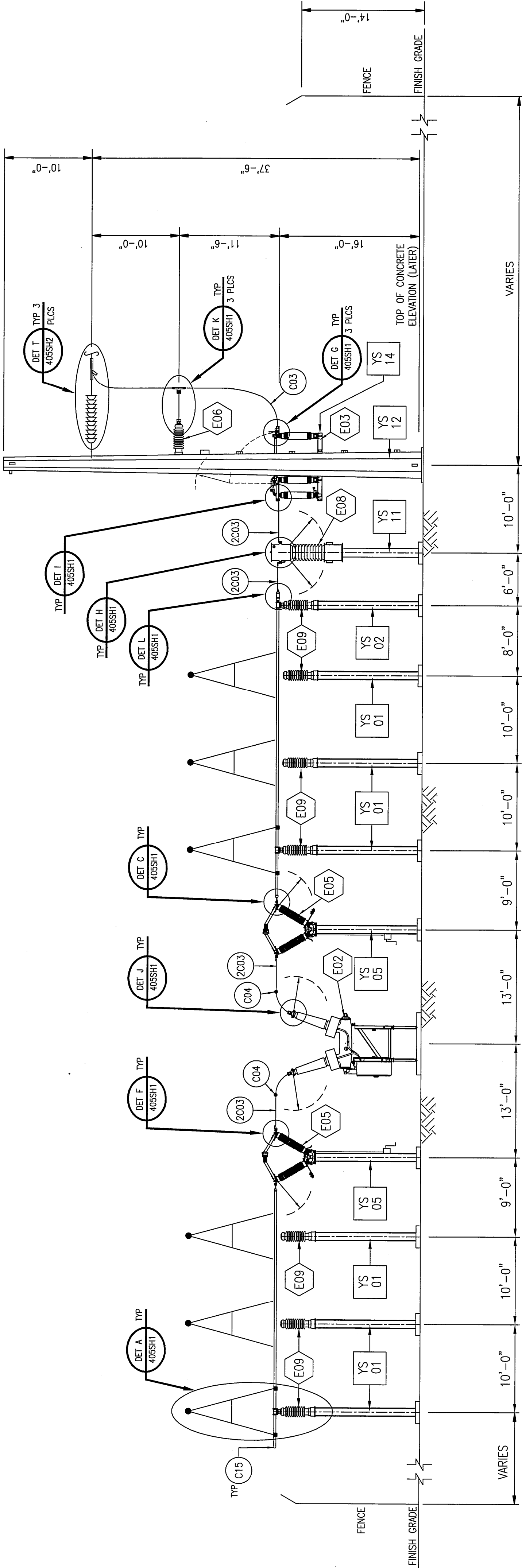
 BLACK & VEATCH												 <i>The United Illuminating Company</i> 157 Church St. New Haven, Ct. 06506		TRUMBULL SUBSTATION SECTIONS 1 & 2			
PROJECT NO. 141417																	
DRAWN	MJ	F 04/04/06	ADDED LIGHTING MAST AND STRUCTURE TO SECTION	MJ		ALL											
DESIGNED	ALL	E 03/20/06	ADDED CONTROL BLDG TO SECTION	MJ		ALL											
APPROVED	DLK	D 03/07/06	INCORPORATE QA CHECK COMMENTS	MJ		ALL											
CHECKED	GCM	C 10/21/05	REISSUED FOR OWNER COMMENTS	CC		ALL											
		B 08/19/05	REISSUED FOR OWNER REVIEW	EAP	GCM	ALL	DLK										
		A 06/10/05	ISSUED FOR 30% OWNER REVIEW	EAP		ALL											
		No	Date	Revision	By	Chkd.	Engr.	Supv.	Drawn	Date	Scale: 1/8" = 1'-0"	CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER			
									Chkd.	Design Engr.	Design Supv.			25249-403SH1			

NOTES

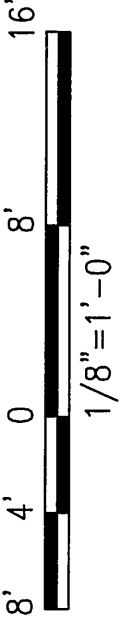
1. SEE SUBSTATION MATERIAL LIST FOR DESCRIPTIONS OF EQUIPMENT, STRUCTURES, AND FITTINGS.
2. SEE DRAWING 25249-402 FOR LEGEND AND CONDUCTOR LEGEND.

REFERENCE DRAWINGS

- SUBSTATION SITE PLAN 25249-001
- SUBSTATION GRADING PLAN 25249-401
- SUBSTATION PLAN 25249-402
- SUBSTATION SECTIONS 25249-403SH1
- SUBSTATION DETAILS 25249-405SH1
- TRANSMISSION LINE ASSEMBLIES 25249-405SH2
- SUBSTATION LIGHTNING SHIELDING PLAN 25249-406SH1
- SUBSTATION LIGHTNING SHIELDING PLAN 25249-406SH2
- SUBSTATION MATERIAL LIST 25249-499



SECTION 3 & SECTION 4
SCALE: 1/8"=1'-0"
(SEE DWG 25249-402)



PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

BLACK & VEATCH		TRUMBULL SUBSTATION	
PROJECT NO. 141417		SECTIONS 3 & 4	
DRAWN MJ		 The United Illuminating Company 157 Church St. New Haven, Ct. 06506	
DESIGNED ALL			
APPROVED DLK			
CHECKED GCM			
D 03/07/06	INCORPORATE QA CHECK COMMENTS	MJ	ALL
C 10/21/05	REISSUED FOR OWNER COMMENTS	CC	GCM
B 08/19/05	REISSUED FOR OWNER REVIEW	EAP	ALL
A 06/10/05	ISSUED FOR 30% OWNER REVIEW	EAP	ALL
No	Date	By	Chkd. Engr. Supv.
			Design Engr.
			Design Supv.
			Drawing Number
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