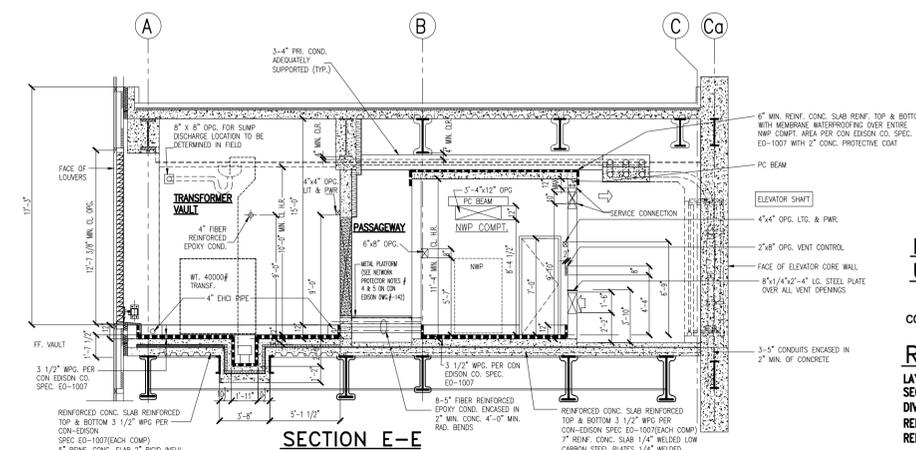
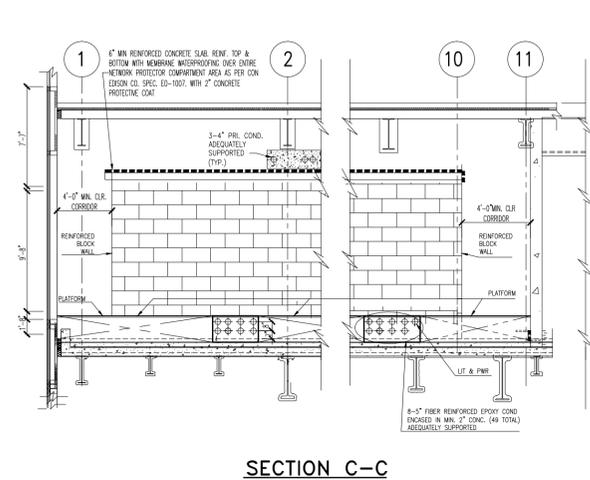
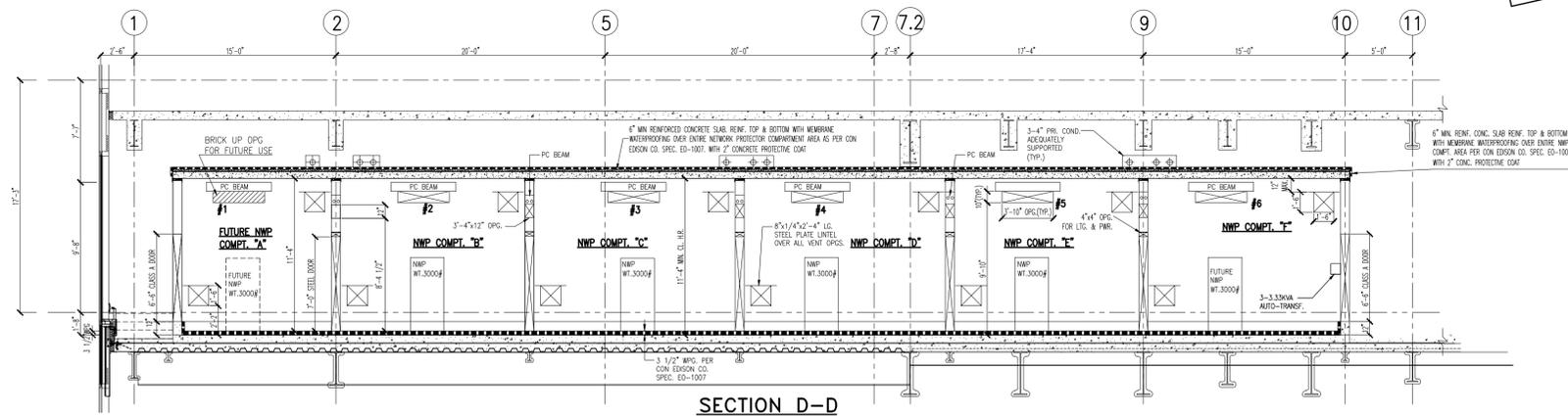
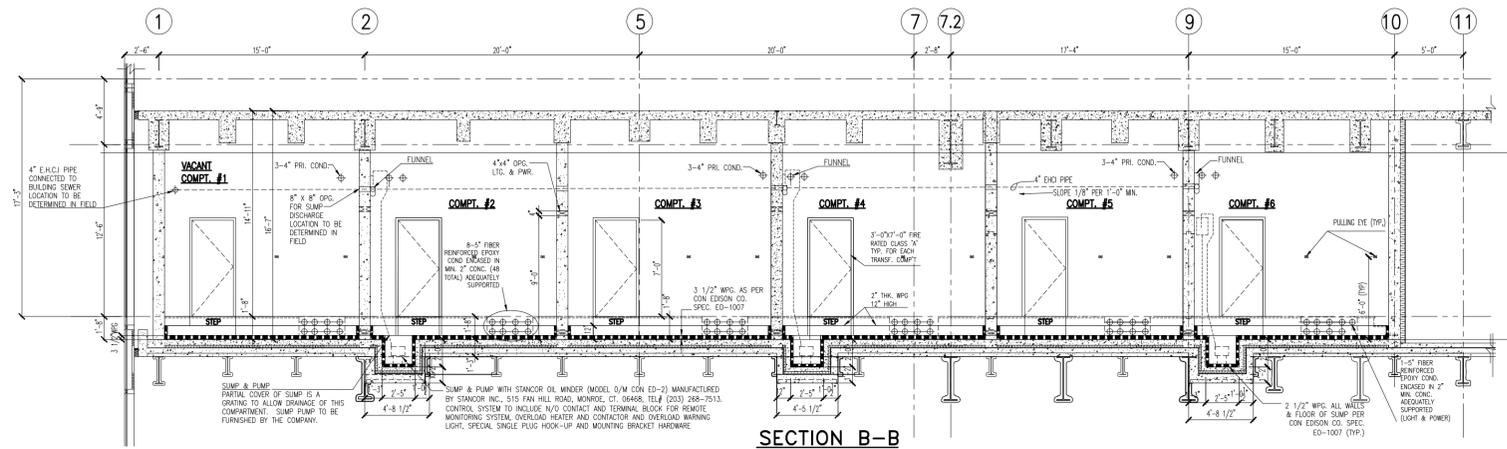
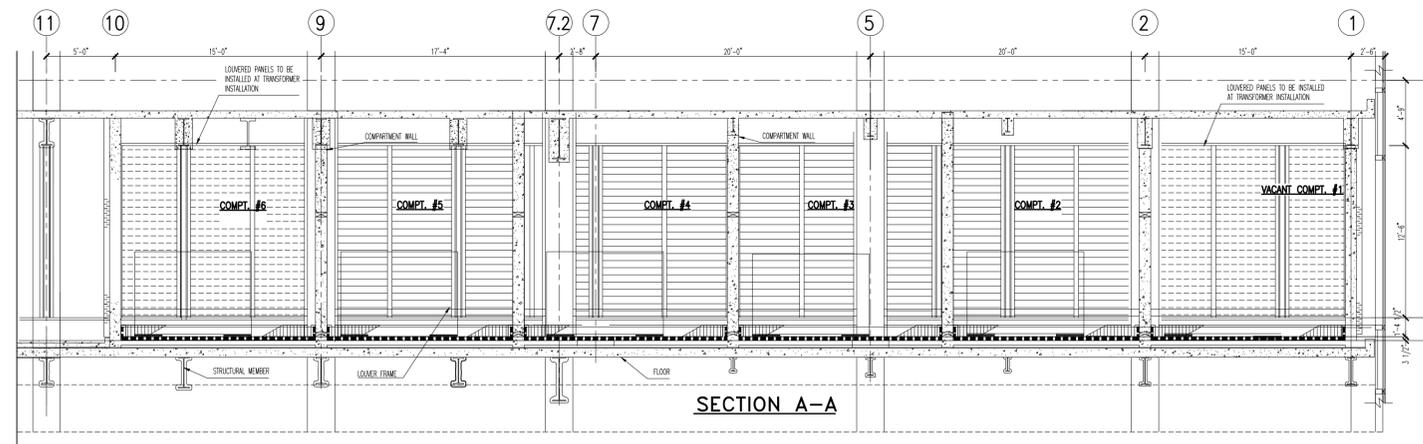




WJL/WHM
3M
1

REVISIONS



SAMPLE DRAWING

CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL AND CONCRETE WALL SHOP DRAWINGS FOR CON EDISON REVIEW AND APPROVAL.

DIVISION OF RESPONSIBILITY  
TO BE USED AS FINAL WITH CUSTOMER DRAWINGS

6-460-WB-INTER-TNSP-S

CONSOLIDATED EDISON CO. OF NEW YORK, INC.	
1 AVENUE	
MANHATTAN	
TRANSFORMER ENCLOSURE LAYOUT	
SECTIONS	265/480V
SCALE	NONE
T.A.	DESIGNED
MANH ENERGY SERVICES	MANAGER VAULT & BUS DESIGN
SECTION MANAGER	CUSTOMER ENGINEERING
MANAGER	ENERGY SERVICES
CUSTOMER PROJECT MANAGER	
DIST. ENG.	FOR DEPARTMENT MANAGER
	DIST. EQUIP. & SUBSTA.

DO NOT SCALE THIS DWG.,  
USE DIMENSIONS AS SHOWN

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REFERENCE DWGS:

LAYOUT \_\_\_\_\_

SECTIONS & DETAILS \_\_\_\_\_

DIVISION OF RESPONSIBILITY \_\_\_\_\_

REINFORCEMENT DETAILS \_\_\_\_\_

REINFORCEMENT DETAILS \_\_\_\_\_

XXX	XXX
XXX	XXX
XXX	XXX

**GENERAL NOTES:**

TRANSFORMER ENCLOSURE & N.W.P. COMPARTMENTS TO BE CLEAR OF ALL FOREIGN PIPING. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.

ALL UNUSED OPENINGS AND CONDUITS TO BE SEALED.

CUSTOMER TO REMOVE, RELOCATE, OR REROUTE AT HIS EXPENSE, ALL PIPES, CONDUITS, MATERIALS AND EQUIPMENT FROM SPACE TO BE OCCUPIED BY N.W.P. COMPT'S. AND TRANSFORMER ENCLOSURES OR INTERFERING WITH THEIR CONSTRUCTION.

THE COMPANY SHALL NOT INSTALL EQUIPMENT IN THE N.W.P. COMPT'S. BEFORE WATERPROOFING AND A 2" THICK CEMENT MORTAR PROTECTIVE COAT FINISH HAS BEEN INSTALLED ON ROOF SLAB OF THE COMPARTMENTS. A WATERPROOF TEST MUST BE PERFORMED AND WITNESSED BY A COMPANY REPRESENTATIVE.

ALL FORMS AND BRACING USED IN CONSTRUCTION OF VAULTS TO BE REMOVED BY VAULT CONTRACTOR UNLESS OTHERWISE NOTED.

ALL EXTERIOR DOORS OF TRANSF. & N.W.P. COMPT'S. TO BE ACCESSIBLE AT ALL TIMES.

**SERVICE CONNECTION NOTES:**

CUSTOMER SHALL WIRE TO THESE SERVICE CONNECTIONS.

CAPACITY OF ANY ONE SERVICE CONNECTION IS LIMITED TO AMPERES PER PHASE PER 1/2 HOUR DEMAND.

TOTAL CAPACITY OF INSTALLATION IS LIMITED TO AMPERES PER PHASE PER 1/2 HOUR DEMAND.

THE COMPANY'S RATE SCHEDULE PROVIDES THAT THE CUSTOMER SHALL GIVE THE COMPANY REASONABLE ADVANCE NOTICE OF INTENTION MATERIALLY TO INCREASE HIS LOAD IN THE FUTURE SO THAT ADEQUATE FACILITIES MAY BE PROVIDED.

**EQUIPMENT:** SEE DIVISION OF RESPONSIBILITY

6-2500KVA 13.8KV, 3Ø 277/480V SILICONE TRANSFORMERS  
6-2800KVA 277/480V N.W.P. & FRAMES

**PLUMBING MATERIAL**

DRAIN FUNNEL  
4" E.H.C.I. PIPE  
2" GALVANIZED PIPE  
4" CHECK VALVE  
4" PIPE TRAP I.S. SIMMONS SP216 OR EQUAL  
SEE EO-16972-B FOR ADDITIONAL MATERIAL

**REFERENCE DRAWINGS**

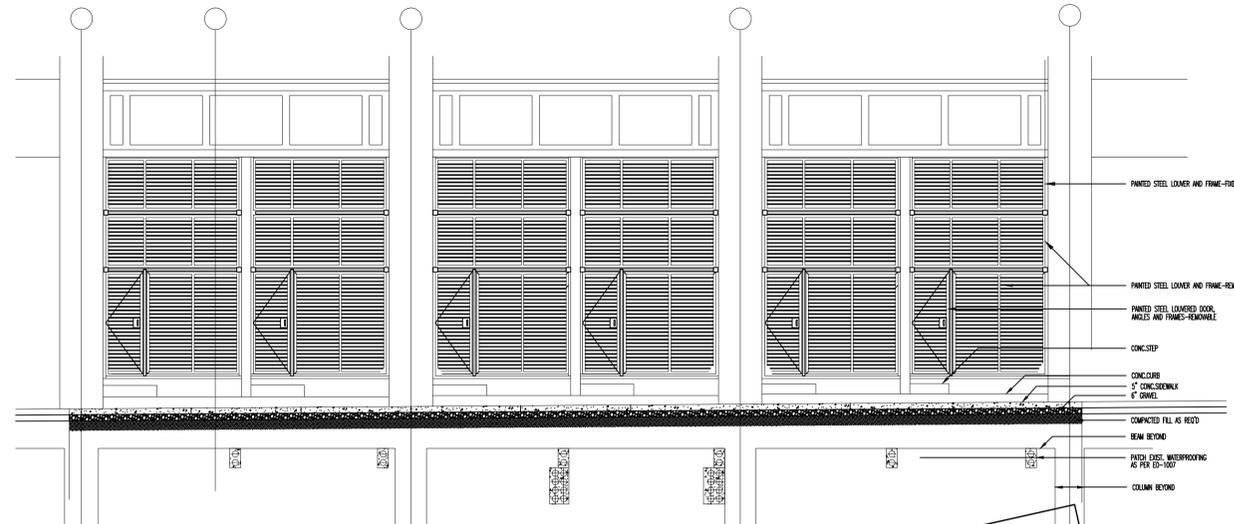
TRANSF. ENC. SECTIONS & DETAILS xxx  
REINFORCEMENT SECT'S & DETAILS xxx

3'-0" X 6'-6" FRAME EO-16447-A (METHOD #2)  
3'-0" X 6'-6" CLASS "A" DOOR (TYPE II) EO-16448-A  
3'-0" X 7'-0" FRAME EO-16447-A (METHOD #4)  
3'-0" X 7'-0" STEEL DOOR (TYPE II) EO-16448-A

GRAVITY DROP CURTAIN EO-16979-B  
GRAVITY DROP CURTAIN DAMPER EO-16979-B  
FORCED VENTILATION & ALARM SYSTEM (EO-7557-C) SPEC. SPEC.  
PAINTING OF N.W.P. COMPT'S. EO-1191  
PAINT FOR N.W.P. COMPT'S. PURCH. SPEC. EO-100,184

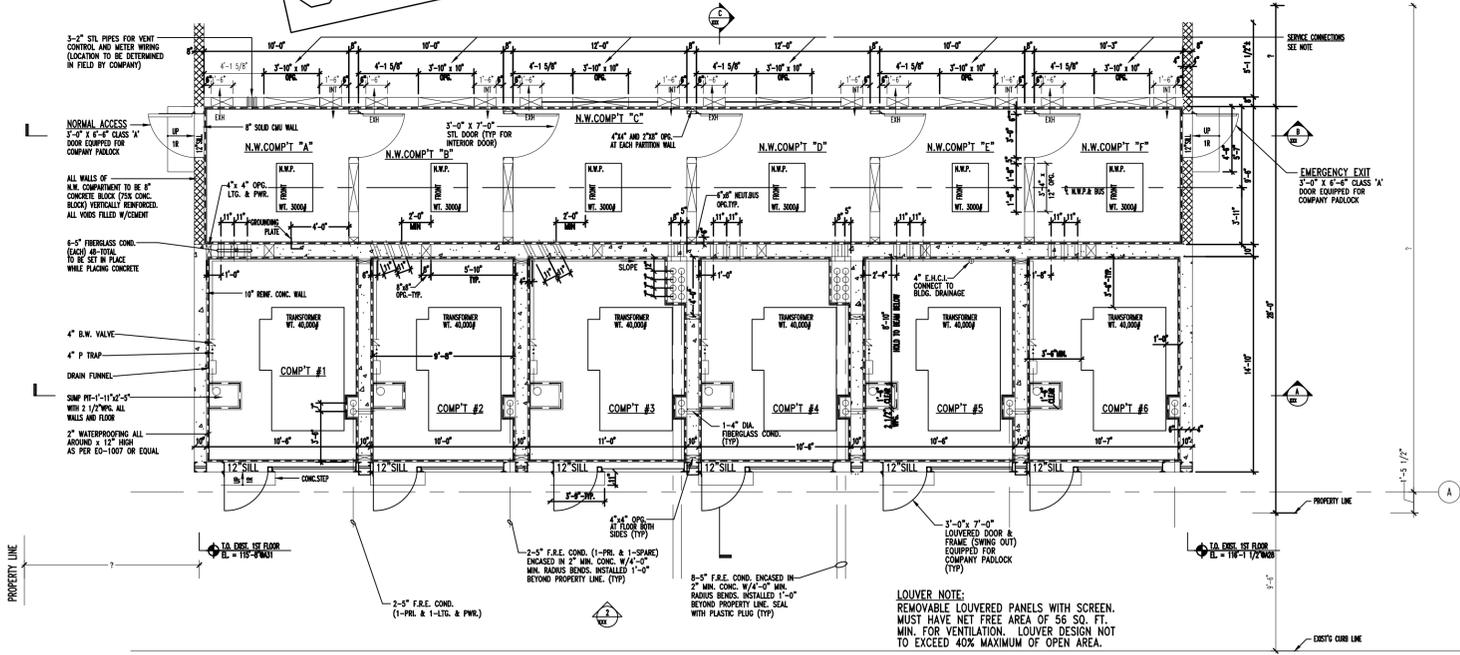
METHOD OF SEALING EO-6217-C  
CONDUITS & CABLE  
CONDUITS, CABLE & EQUIP. ON PRIVATE PROPERTY SPEC. EO-4082  
LIGHT & POWER OUTLET WIRING EO-13712-B  
CEMENT MORTAR SPEC. EO-100,167  
WATERPROOFING SPEC. EO-1007  
VAULT DRAINAGE EO-16972-B  
INSTALLATION OF SUMP PUMP EO-12160-C  
SUMP FRAME & COVER EO-3393-D  
FIBERGLASS CONDUITS  
PURCH. SPEC. EO-100,628  
WELDING SPEC. EO-11320

WIRING DIAGRAM xxx  
PHYSICAL TRANSFORMER CONNECTIONS & R.W.P. INSTAL. xxx



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

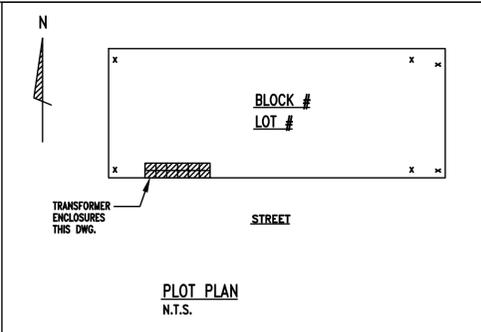
SAMPLE DRAWING



**TRANSFORMER ENCLOSURE AT GRADE**  
SCALE: 1/4" = 1'-0"

TRANSFORMER ENCLOSURE AND NETWORK COMPARTMENT WALLS, FLOOR, ROOF, FOUNDATION AND ASSOCIATED STEEL FRAMING TO BE DESIGNED BY THE CUSTOMER. DETAIL DRAWINGS TO BE FURNISHED TO CONSOLIDATED EDISON CO. VAULT DESIGN SECTION.

COMPUTER GENERATED DWG., NOT TO BE HAND REVISED.  
DO NOT SCALE THIS DWG., USE DIMENSIONS AS SHOWN



- NETWORK PROTECTOR COMPT.**
1. THE CUSTOMER SHALL SUPPLY, OPERATE AND MAINTAIN A FORCED EXHAUST AIR VENTILATING AND ALARM SYSTEM FOR NETWORK PROTECTOR COMPARTMENT, AS PER DWG. EO-7557-B OF SPEC. EO-2032.  
CUSTOMER TO SUBMIT TO THE COMPANY THE FOLLOWING VENTILATION INFORMATION:  
A- LOCATION OF VENTILATION CONTROLS AND INDICATE WHICH TAKE-OFF IS SOURCE OF SUPPLY.  
B- SUPERVISORY PERSONNEL TO CONTACT DURING NORMAL WORKING HOURS AND DURING NON-WORKING HOURS FOR EMERGENCIES.  
C- OPERATING PROCEDURE FOR START UP OF VENTILATION SYSTEM.
  2. ONE OUTSIDE DOOR OF THE NETWORK PROTECTOR COMPARTMENT SHALL BE OPEN TO A PUBLIC HALL OR LOBBY. OTHER OUTSIDE DOOR MUST BE ACCESSIBLE AT ALL TIMES.
  3. CUSTOMER & CONTRACTOR TO PROVIDE CONDUIT OPENING IN WALLS OR FLOOR AS SHOWN. REINFORCING BARS SHALL CLEAR ALL CONDUIT OPENINGS BY 4" MINIMUM ON ALL SIDES. OMIT BARS WITHIN OPENINGS.
  4. FLANGES OF ALL STEEL BEAMS SHALL CLEAR SERVICE CONNECTION OPENINGS BY 8" MINIMUM.
  5. REINFORCING BARS SHALL CLEAR PARALLEL BUS OPENINGS AND SERVICE CONNECTION OPENINGS BY 4" MINIMUM ON ALL SIDES.
  6. ALL BUILDING STEEL IN NETWORK PROTECTOR COMPARTMENT SHALL BE ENCASED IN A MINIMUM 2" CONCRETE PROTECTION BY CUSTOMER.
  7. CUSTOMER SHALL REMOVE ALL CONCRETE FORMS IN NETWORK PROTECTOR COMPARTMENT AREA PRIOR TO CONSTRUCTION BY OTHERS.
  8. PRIOR TO INSTALLATION OF EQUIPMENT IN NETWORK COMPARTMENTS CUSTOMER TO PAINT WALLS, FLOOR & CEILINGS IN ACCORDANCE WITH SPEC. EO-1191. AFTER EQUIPMENT HAS BEEN INSTALLED, THE CUSTOMER IS TO REPAIR DAMAGED WALL, FLOOR & CEILING PAINT IN ACCORDANCE WITH SPEC. EO-1191.
  9. THE CUSTOMER SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY FUTURE WATER OR MOISTURE PROBLEMS THROUGH WALLS, CONDUITS, CEILING OR FLOOR IN N.W. COMPARTMENT SHOULD THEY OCCUR. ANY CORRECTIVE METHODS ARE TO BE COMPLETED IN ACCORDANCE WITH ESTABLISHED COMPANY METHODS AND UNDER THE DIRECTION OF THE COMPANY REPRESENTATIVE.
  10. AS PART OF VAULT CONSTRUCTION THE FLOORS, WALLS AND CEILINGS ARE TO BE PAINTED IN ACCORDANCE WITH SPEC. EO-1191. AFTER EQUIPMENT HAS BEEN INSTALLED, THE CUSTOMER IS TO REPAIR DAMAGED FLOORS, WALLS AND CEILING PAINT, IN ACCORDANCE WITH SPEC. EO-1191.

- NOTE :**
1. THE WATER STOP SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN N.W. & TRANSF. COMPARTMENTS AREA.
  2. CUSTOMER TO PROVIDE AND MAINTAIN A 4'-0" MINIMUM CLEAR PASSAGEWAY WITHIN BLDG. FOR THE INSTALLATION AND REPLACEMENT OF EQUIPMENT.
  3. NO METAL DECKING WITHIN THE NETWORK COMPARTMENT AREA.
  4. ALL FORMS AND BRACING USED IN CONSTRUCTION OF VAULT TO BE REMOVED BY VAULT CONTRACTOR UNLESS OTHERWISE NOTED.
  5. CUSTOMER TO FURNISH A METHOD OF CONNECTING NEUTRAL BUS TO BUILDING STEEL WITHIN N.W. PROTECTOR COMPARTMENT. THE NUMBER OF PLATES REQUIRED DEPEND ON THE RESISTANCE TO GROUND MEASUREMENT WHICH MUST BE 10 OHMS OR LESS.

**REFERENCE DWG'S:**  
TRANSFORMER ENCLOSURE SECTIONS & DETAILS xxx  
REINFORCEMENT SECT'S & DETAILS xxx

6-460-WB-INTGFL-TNT

CONSOLIDATED EDISON CO.	
OF NEW YORK, INC.	
address	
address	
MANHATTAN	
TRANSFORMER ENCLOSURE LAYOUT AT	
GRADE INSIDE PROPERTY LINE 265/460V	
DATE	1/4"=1'-0"
LA	BY
BY	CHK
MANAGER	VAULT & BUS DESIGN
MANAGER	ENERGY SERVICES
DIST. ENGR	
CUSTOMER PROJECT MANAGER	
DIST. ENGR	FOR DIST. EQUIP. ENGR

NO FORM TIES ALLOWED

NO FLY-ASH