

NOTES:

1. PULLING - IN - IRONS SHALL BE INSTALLED IN VAULT CEILING ABOVE EACH CONDUIT ENTRANCE AND WELDED TO REBAR IN THE VAULT CEILING AS SHOWN. PULLING - IN - IRONS TO BE A.B. CHANCE CO. CATALOG NO. 8120 OR EQUIVALENT WITH A 20,000 LB ULTIMATE TENSILE STRENGTH.
2. THE VAULT STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED ON GRADE WITH DIRECT ACCESS TO BUILDING EXTERIOR ONTO PUBLIC R/W WITH A MINIMUM 4-HOUR FIRE RATING AND 6" REMOVABLE SILLS AT ALL OPENINGS. NO PIPING FOR PRESSURIZED OR UNPRESSURIZED FLUID SHALL BE PERMITTED IN THE VAULT.
3. ALL FLOORS SHALL BE SLOPED AT A RATE OR 0.25" (1/4") PER FOOT TO DRAIN. DRAIN SHALL BE CONNECTED TO CUSTOMERS STORM DRAINAGE SYSTEM.
4. DIMENSIONS H & W REFLECT A CLEAR AREA NECESSARY TO INSTALL OR REMOVE THE PSE.
5. VAULT LIGHTING & RECEPTACLE SYSTEM SHALL BE SERVED FROM THE BUILDING'S EMERGENCY POWER SYSTEM.
6. FLUORESCENT LIGHTING (WET/DAMP) FIXTURES SHALL HAVE A MINIMUM ILLUMINATION OF 30 FT-CANDLES TO ALL OPERATING SIDES OF THE PSE. A MULTIWAY SWITCH TO CONTROL THE LIGHT SHALL BE INSTALLED AT EACH DOOR AND TWO CONVENIENCE OUTLETS PER VAULT. USE RIGID GALVANIZED CONDUIT (PVC NOT ACCEPTABLE) ON EXPOSED INSTALLATIONS.
7. PSE CONTROL SIDE REQUIRES 5 FEET MINIMUM CLEARANCE.
8. OWNER FURNISHED GROUND GRID CONSTRUCTED OF 1/2 INCH DIAMETER COPPER BONDED ROD(S) INSTALLED BELOW THE LOWEST FLOOR SLAB. EACH GROUND ROD SHALL BE MEGGERED TO 25 OHMS OR LESS. THE GROUND RODS IN THE GRID SHALL BE CONNECTED TOGETHER BY A CONTINUOUS CONDUCTOR OF 4/0 AWG STRANDED COPPER. ALL CONNECTIONS SHALL BE BONDED TOGETHER THROUGH AN EXOTHERMIC PROCESS. THIS GROUND SYSTEM SHALL BE INSTALLED PRIOR TO POURING THE FLOOR, WITH A SIX FOOT 4/0 PIGTAIL PROVIDED THROUGH THE FLOOR SURFACE FOR CONNECTION TO TEC EQUIPMENT. COMPLETED GRID SHALL MEGGER TO 5 OHMS OR LESS.
- 9. THE OWNER SHALL EXTEND THE PVC DUCT BANK FOR TEC CABLES 2 FEET BEYOND DESIGNATED PROPERTY LINE (DEPTH AT P/L AND CONDUIT SIZE TO BE DETERMINED BY TEC). IN THE SWITCHGEAR PIT USE RIGID GALVANIZED ELBOWS (IF 2" OR GREATER)-PVC NOT ACCEPTABLE ON EXPOSED INSTALLATIONS.
10. NATURAL VENTILATION SCREENED LOUVERS WITH A LABELED 3-HR. CLASS "A" FIRE RATED ROLLING STEEL FIRE DOOR. ALL VENTILATION EQUIPMENT SHALL BE INSTALLED OUTSIDE OF THE VAULT.
11. ACCESS DOORS TO BE 3'-0" X 6'-8". A MINIMUM OF TWO (2) PERSONNEL ACCESS DOORS EQUIPPED WITH PANIC BARS OR PRESSURE PLATES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE. EACH DOOR SHALL BE LABELED CLASS "A" 3-HOUR FIRE RATING. ENTRANCE DOOR LOCKSET REQUIREMENTS: COMMERCIAL GRADE HEAVY DUTY CYLINDRICAL STAINLESS STEEL, REMOVABLE CORE CYLINDER AN "GA" KEYWAY-YALE SECURITY PRODUCT SERIES NO. 5405. OWNER TO REMOVE CORE CYLINDER AND HAVE KEYED FOR TEC SUBSTATION MASTER KEY. COORDINATE THROUGH TEC SECURITY DEPARTMENT.
12. VAULT DESIGN TO MEET ALL THE REQUIREMENTS OF THE GOVERNING FIRE MARSHAL AND THE NATIONAL ELECTRICAL CODE, LATEST REVISIONS.
13. ONE INDICATION CONDUIT FROM THE PROPERTY LINE TO THE SWITCHGEAR VAULT. CONDUIT LOCATION AND SIZE (4" MINIMUM DIAMETER) TO BE SPECIFIED BY TEC.
14. (1) - 2" CONDUIT LOCATED ADJACENT TO THE INDICATION CONDUIT INSIDE THE VAULT EXTENDING TO THE SOURCE SIDE OF THE SWITCHGEAR PIT. USE A RIGID GALVANIZED 2" ELBOW IN THE SWITCHGEAR PIT-PVC NOT ACCEPTABLE ON EXPOSED INSTALLATIONS.
15. PIPING OR DUCT SYSTEMS FOREIGN TO THE ELECTRICAL VAULT INSTALLATION SHALL NOT ENTER OR PASS THROUGH THE VAULT.

MINIMUM REQUIREMENTS ONLY

CONTRACTUAL AGREEMENTS AND EASEMENTS OUTLINING THE RESPONSIBILITIES OF TAMPA ELECTRIC COMPANY AND THE OWNER WILL ALWAYS BE REQUIRED. IN NO WAY SHALL THIS REQUIREMENT BE CONSTRUED AS AN APPROVED VAULT CONSTRUCTION DESIGN REQUIREMENT UNLESS PRESENTED IN THE FORM OF A CONTRACTUAL AGREEMENT BETWEEN TAMPA ELECTRIC COMPANY AND THE OWNER. TAMPA ELECTRIC COMPANY ASSUMES NO LIABILITY FOR STRUCTUAL DESIGN SPECIFICATIONS OF ANY VAULT.

4	SJH	7-30-14	REVISED NOTE 9
3	SJH	5-19-11	REVISED NOTES 9 & 14
2	MFK	8-21-03	SPLIT SPEC'S.
1	MFK	4-17-03	NOTE 14 1" TO 2" CONDUIT
NO.	CK'D	DATE	REVISION

◀ DENOTES LATEST REVISION

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MGR: STD'S  
APPR. DATE 7-30-14  
SUPERSEDES 13-21/5-19-11

## MINIMUM SPACE REQUIREMENTS FOR 600AMP AUTO-THROWOVER PAD-MOUNTED SWITCHING EQUIPMENT (PSE) ON GRADE INDOOR VAULT