

FORT BEND COUNTY FY 2009
 COMMISSIONERS COURT AGENDA REQUEST FORM

Return Completed Form by E-Mail to: Agenda Coordinator, County Judge's Office

27B

Date Submitted: August 5, 2009	Submitted By: Laura Dougherty
Court Agenda Date: August 11, 2009	Department: Facilities Management & Planning
	Phone Number: 281-633-7017

SUMMARY OF ITEM:
 Deliberate and take all appropriate action on the Addendum to the Terms and Conditions to Underground Electric Service with CenterPoint Houston Electric, LLC for the Sienna Library.

RENEWAL AGREEMENT/APPOINTMENT YES NO
 REVIEWED BY COUNTY ATTORNEY'S OFFICE: YES NO

List Supporting Documents Attached: Addendum *MR 8/11/09*

FINANCIAL SUMMARY:

BUDGETED ITEM: YES NO

FUNDING SOURCE: Accounting Unit: _____ Account Number: _____
 Activity (If Applicable): _____

DESCRIPTION OF LAWSON ACCOUNT: _____

Instructions to submit Agenda Request Form:

- Completely fill out agenda form: incomplete forms will not be processed.
- Agenda Request Forms should be submitted by e-mail, fax, or inter-office mail, and all back-up information must be provided by Wednesday at 2:00 p.m. to all those listed below.
- All original back-up must be received in the County Judge's Office by 2:00 p.m. on Wednesday.

DISTRIBUTION:

Original Form Submitted with back up to County Judge's Office (✓ when completed)
 If by E-Mail to ospindon@co.fort-bend.tx.us If by Fax to (281) 341-8609

Distribute copies with back-up to all listed below. If by fax, send to numbers below:

<input checked="" type="checkbox"/> Auditor (281-341-3774)	<input checked="" type="checkbox"/> Comm. Pct. 1 (281-342-0587)
<input checked="" type="checkbox"/> Budget Officer (281-344-3954)	<input checked="" type="checkbox"/> Comm. Pct. 2 (281-403-8009)
<input checked="" type="checkbox"/> Facilities/Planning (281-633-7022)	<input checked="" type="checkbox"/> Comm. Pct. 3 (281-242-9060)
<input checked="" type="checkbox"/> Purchasing Agent (281-341-8642)	<input checked="" type="checkbox"/> Comm. Pct. 4 (281-980-9077)
<input checked="" type="checkbox"/> Information Technology (281-341-4526)	<input checked="" type="checkbox"/> County Clerk (281-341-8697)
<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> County Atty (281-341-4557)

RECOMMENDATION / ACTION REQUESTED:

Special Handling Requested (specify): Please Approve *8-13-09 copy received*

Fm 90797

ADDENDUM TO “TERMS AND CONDITIONS TO UNDERGROUND ELECTRIC SERVICE”

This Addendum is dated as of the Effective Date (as defined below) and is between CENTERPOINT HOUSTON ELECTRIC, LLC (the “Company”) and FORT BEND COUNTY (“Customer”). The Company and Customer are referred to in this Addendum individually as a “Party” and collectively as the “Parties.”

Customer is the owner and operator of FORT BEND COUNTY LIBRARY. (“Property”) shall mean any facilities, equipment, cable, or other material referred to in the Agreement and installed by the customer or his contractor at Sienna Springs Blvd and Sienna Pkwy.

Contemporaneously with the execution of this Addendum, Customer and the Company are entering into **THE TERMS AND CONDITIONS TO UNDERGROUND ELECTRIC SERVICE** (the “Agreement”) under which underground electric service will be provided for **FORT BEND COUNTY LIBRARY**. “Effective Date” means the date that the Agreement is signed, as indicated by the date next to the customer signature on the cover sheet of the Agreement.

Because of certain laws and regulations applicable to Customer, the Parties desire to set forth their understanding regarding those laws and regulations and the related allocation of certain risks and liabilities between them. **Any commitment for spending herein is subject to the County Commissioners’ annually appropriating sufficient funds for such project.**

The Parties therefore agree as follows:

1. Applicability. This Addendum is being executed in connection with and will be deemed to be a part of the Agreement. No provision of the Agreement stating that the Agreement contains the entire understanding of the Parties with respect to its subject matter or other provision in the Agreement of the type typically referred to as a “merger clause” will apply to this Addendum. To the extent that the terms and provisions of this Addendum conflict with the terms and provisions of the Agreement, the terms and provisions of this Addendum control. Notwithstanding the execution of this Addendum, the Agreement remains in full force and effect, except as otherwise provided in this Addendum.

2. Customer as Governmental Entity.

(a) Customer represents and warrants that it is a governmental entity, and that as a governmental entity it is subject to constitutional and statutory limitations on its ability to be bound by certain terms and conditions of the Agreement, which may include terms and conditions relating to: liens on government property; disclaimers and limitations of warranties; disclaimers and limitations of liability for damages; waivers, disclaimers, and limitations on legal rights, remedies, requirements, and processes; limitations of time in which to bring legal action; control of litigation or dispute resolution; indemnities; and confidentiality of information. It is further understood that the Customer is not committing any funds at this time for carrying out any provision of the Agreement. Notwithstanding any other language contained in this Addendum or the Agreement as a whole, neither the execution of this Addendum and the

Agreement, nor any other conduct of either Party relating to this Agreement or Addendum shall be considered a waiver of any right, defense, or immunity of the Customer under the Texas Constitution or the laws of the State of Texas. Any terms or provisions of this Addendum that are less restrictive than those in the Agreement with respect to Customer's obligations will be null and void and will have no force or effect if the representation and warranty that Customer is a governmental entity is not true.

(b) Terms and conditions in the Agreement relating to limitations of the type described in Section 2(a) will only be binding on Customer to the extent they are valid and enforceable under all applicable laws, including all state and federal laws, rules and regulations, the constitutions of the United States and the State of Texas and the laws of the United States and the State of Texas ("Applicable Laws").

3. **THIRD PARTY INDEMNIFICATION.**

FORT BEND COUNTY SHALL ENSURE (WHETHER THROUGH CONTRACT, CONTRACT AMENDMENT, OR OTHERWISE) THAT ITS CONTRACTORS, SUPPLIERS AND SUBCONTRACTORS (OF ANY TIER) AGREE TO PROTECT, DEFEND, INDEMNIFY AND HOLD CENTERPOINT ENERGY, ITS CORPORATE AFFILIATES AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS, FREE AND HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, CAUSES OF ACTION, SUITS OR OTHER LITIGATION (INCLUDING ALL COSTS THEREOF AND ATTORNEY'S FEES) OF EVERY KIND AND CHARACTER ARISING IN FAVOR OF FORT BEND COUNTY OR ANY THIRD PARTY (INCLUDING, BUT NOT LIMITED TO, PERSONNEL FURNISHED BY CONTRACTOR OR ITS SUPPLIERS AND SUBCONTRACTORS OF ANY TIER) ON ACCOUNT OF BODILY INJURY, DEATH OR DAMAGE TO OR LOSS OF PROPERTY, IN ANY WAY OCCURRING, INCIDENT TO, ARISING OUT OF OR IN CONNECTION WITH THE WORK PERFORMED OR TO BE PERFORMED HEREUNDER OR OCCURRING, INCIDENT TO, ARISING OUT OF OR IN CONNECTION WITH THE PRESENCE OF FORT BEND COUNTY'S PERSONNEL, AGENTS, SUPPLIERS AND SUBCONTRACTORS (AND THEIR RESPECTIVE PERSONNEL) ON THE PREMISES, ALL REGARDLESS OF WHETHER SUCH INJURY, DEATH OR DAMAGE IS CAUSED BY THE JOINT, CONCURRENT, CONTRIBUTING OR COMPARATIVE NEGLIGENCE OR FAULT, BUT NOT THE SOLE NEGLIGENCE OR FAULT, OF CENTERPOINT ENERGY, ITS CORPORATE AFFILIATES, OR THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES OR AGENTS.

4. **Maintenance.**

Except to the extent expressly set forth in a written agreement between the Parties, the Company will not be required to maintain equipment, cable, and other material that is owned by the Customer. Customer acknowledges that it is Customer's sole responsibility to follow the proper administrative or internal procedures to cause the equipment, cable or other material to be owned and maintained in accordance with the specifications in the Agreement.

5. Further Assurances. If at any time after the date of this Addendum any further action is necessary or appropriate to carry out the purposes of this Addendum, Customer shall use all commercially reasonable efforts to take, or cause to be taken, that action.

6. Assignment. Customer shall not assign any part of its rights or delegate any performance under this Addendum, voluntarily or involuntarily, whether by merger, consolidation, dissolution, operation of law, or any other manner, without the Company's prior written consent. Any purported assignment of rights or delegation of performance in violation of this Section 6 is void and of no effect.

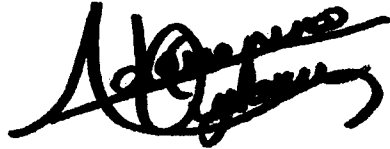
7. Modification; Waiver. No amendment of this Addendum will be effective unless it is in writing and signed by the Parties. No waiver of satisfaction of a condition or nonperformance of an obligation under this Addendum will be effective unless it is in writing and signed by the Party granting the waiver, and no such waiver will constitute a waiver of satisfaction of any other condition or nonperformance of any other obligation. To be valid, any document signed by a Party in accordance with this Section 7 must be signed by an officer or other representative of that Party authorized to do so.

[The remainder of this page has been intentionally left blank.]

The Parties are signing this Addendum as of the Effective Date.

COMPANY:

CENTERPOINT ENERGY HOUSTON
ELECTRIC, LLC



By: _____
Name: ADEWEMIMO OYEKENU
Title: ENGINEER

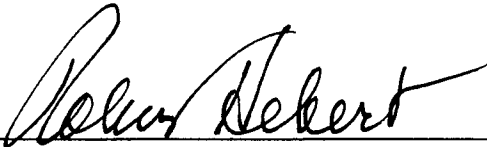
CUSTOMER:

FORT BEND COUNTY

APPROVED AS TO FORM:

By signing this Addendum, the person purporting to sign this Addendum on behalf of Customer is representing and warranting to the Company that the person has the legal authority to bind Customer and has been duly authorized by Customer to sign and deliver this Addendum to the Company.

Glen D. Dunbar
County Attorney, Fort Bend County

By:  _____
Name: Robert Hebert
Title: County Judge

FM 90798

SPECIFICATION

FOR

**FORT BEND COUNTY LIBRARY PROJECT
SIENNA SPRINGS BLVD AND SIENNA PKWY**

Job # 42470247
Revision #2

**CenterPoint Energy (CNP)
Major Underground Department
P. O. Box 1700; Houston, Texas 77251-1700**

REFERENCE DRAWINGS:

Fort Bend County Library Site Plan Received : October 23, 2006

REFERENCE SPECIFICATIONS:

CenterPoint Energy's Service Standards : February 16, 2009
Emergency Generators : 007-231-82
Ready-Mix Concrete : 007-221-01

Reviewed And Agreed To By: Robert Hebert County Judge 8-11-09
Signature Title Date

Robert Hebert
Print Name

If this Terms & Conditions package is signed by anyone other than an official from FORT BEND COUNTY, it will not be considered valid. A valid signature will be considered an acceptance of all information contained within this Terms & Conditions package.

Reviewed by: Don Brady 8/11/09
Don Brady, Director, Facilities
Planning & Management

CenterPoint Energy Houston, Texas		
WRITTEN	JAG	2/13/08
CHECKED	RJG	2/13/08
APPROVED	WRB	2/13/08
SHEET 1 OF 10 SHEETS		

NO.	DATE	ITEMS REVISED	BY	CH	APP
2	08/10/09	INDEMNITY CLAUSE REMOVED	AAO	RJG	MEM
1	5/15/09	MODIFIED INDEMNITY CLAUSE	AAO	RJG	RJG

GENERAL

Service to be provided by CenterPoint Energy (CNP) from a 500 kVA, 34.5 kV primary -480Y/277, volt, three-phase, four-wire, pad mounted transformer.

Major Underground Department Project Manager is Akin Oyekenu at (713) 207-6152. Submit a current electrical one-line diagram to the Project Manager. Contact the Project Manager for questions, revision requests, information submission, etc.

CNP's pad mounted equipment needs adequate clearance, as determined by CNP, for working on and around, for ventilation and for contamination protection. Discuss any plans with the project manager concerning any obstructions, aesthetic or otherwise, around the equipment or any contamination sources in the vicinity of the equipment.

SERVICE CONNECTION

Maximum secondary cables are 4-750 MCM cables per phase. A cable tap box (CTB) will be required if cable requirements exceed this limit. CTB information is available upon request.

Fort Bend County shall furnish, install, own, and maintain all secondary service conduit and underground cable into the secondary opening of the transformer pad. Secondary conductors shall be extended a minimum of seven (7) feet above the transformer pad. **Fort Bend County shall not install the secondary conductors until after the transformer has been set. CNP will terminate the secondary cables in the transformer.**

To accommodate future expansion, up to 8-4" secondary conduits may be installed into the transformer pad.

The initial available short circuit current is 34,366 amperes symmetrical, with an X/R ratio of 3.1. The ultimate available short circuit current is 56,523 amperes symmetrical, with an X/R ratio of 9.6.

ACCESS

A minimum 12 foot wide all weather access road, designed for HS-20-44 loading (72,000#), as recognized by the American Association of State Highway Officials (AASHO), with 14 foot minimum vertical clearance, shall be provided for CNP trucks and equipment to the proposed pad mounted equipment location. A 32 foot minimum vertical clearance over all equipment pads shall be provided for CNP trucks and equipment. These requirements are for the life of the service.

CNP is authorized to utilize the Fort Bend County Library's parking and driveway facilities located at Sienna Springs Pkwy and Sienna Springs Blvd. for equipment access.

EMERGENCY GENERATION AND SECONDARY LOAD TRANSFER

The requirements of the CNP Specification on Customer Emergency Generation and Secondary Load Transfer, Specification 007-231-82, latest revision (available upon request) shall be met.

SERVICE EQUIPMENT VENTILATION REQUIREMENT

The requested service equipment location is within a proposed service yard. The service walls adjacent to the transformer pad must be louvered to permit 50 percent air flow. Fort Bend County shall submit drawings of the proposed louvering to CNP for approval, prior to construction.

CONSTRUCTION PROCESS

FACILITIES INSTALLED BY THE CUSTOMER

All facilities are to be installed per the attached construction specifications. The customer or its contractor is to request a preconstruction meeting prior to starting the required underground construction by calling the number listed below.

All facilities shall be inspected by CNP after the conduit is installed; pads are formed, reinforcing rods installed, etc. **but prior to the pouring of concrete.** CNP recommends that the customer complete the pouring of concrete on the day the facilities are inspected and approved. The customer will insure that all inspected and approved facilities remain in the approved condition until the concrete pour has been completed. If there is damage to the inspected and approved facilities prior to the pouring of concrete, the facilities must be re-inspected by CNP before the customer begins the pouring of concrete. CNP reserves the right to require the customer to break out any unapproved concrete pours at its expense.

CNP will make a reasonable attempt to complete all inspection requests. To insure that inspection requests can be fulfilled, they should be made twenty-four (24) hours in advance (Mon. - Fri.; between 9:00 a.m. and 3:00 p.m., holidays excluded) to the Major Underground Department at (713) 207-6229. Job # 42470247 must be provided as the inspection identification number.

EASEMENT INSTRUMENT

CNP will prepare an instrument for easements to be granted by the property owner after all installations for CNP's use have been completed according to the specifications. The service can not be energized until CNP has accepted the signed instrument for all easements.

CNP will need access to and from the proposed easements. CNP will use these easements, shown on the attached sketches, for the purposes of erecting, installing, operating, maintaining, replacing, inspecting, and removing electrical distribution facilities. These easements shall be free and clear of any obstructions (trees, shrubs, other structures, etc.) that may endanger or interfere with the efficiency, safety, and proper operation of the proposed facilities for the life of the service.

OPTIONAL FAULT PROTECTION & MOTOR START INFORMATION

If the following information is supplied to CNP, a study will be conducted to evaluate protective device coordination and voltage dips associated with motor starting.

Please fill in the information that applies to the equipment for protection of this service.

***MAIN SERVICE ENTRANCE PROTECTIVE DEVICE INFORMATION:**

FOR FUSED MAIN ONLY

MANUFACTURER: _____

TYPE: _____

SIZE: _____

TYPE FUSE HOLDER: _____

LARGEST MOTOR

HORSEPOWER: _____

SIZE & NUMBER OF MOTORS STARTING SIMULTANEOUSLY: _____

Please submit a one-line electrical diagram indicating all protective devices, automatic load transfer equipment and emergency generation equipment.

A copy of the protective device coordination relative to CNP's protective devices may be obtained upon request.

INFORMATION PROVIDED BY: _____ TITLE: _____

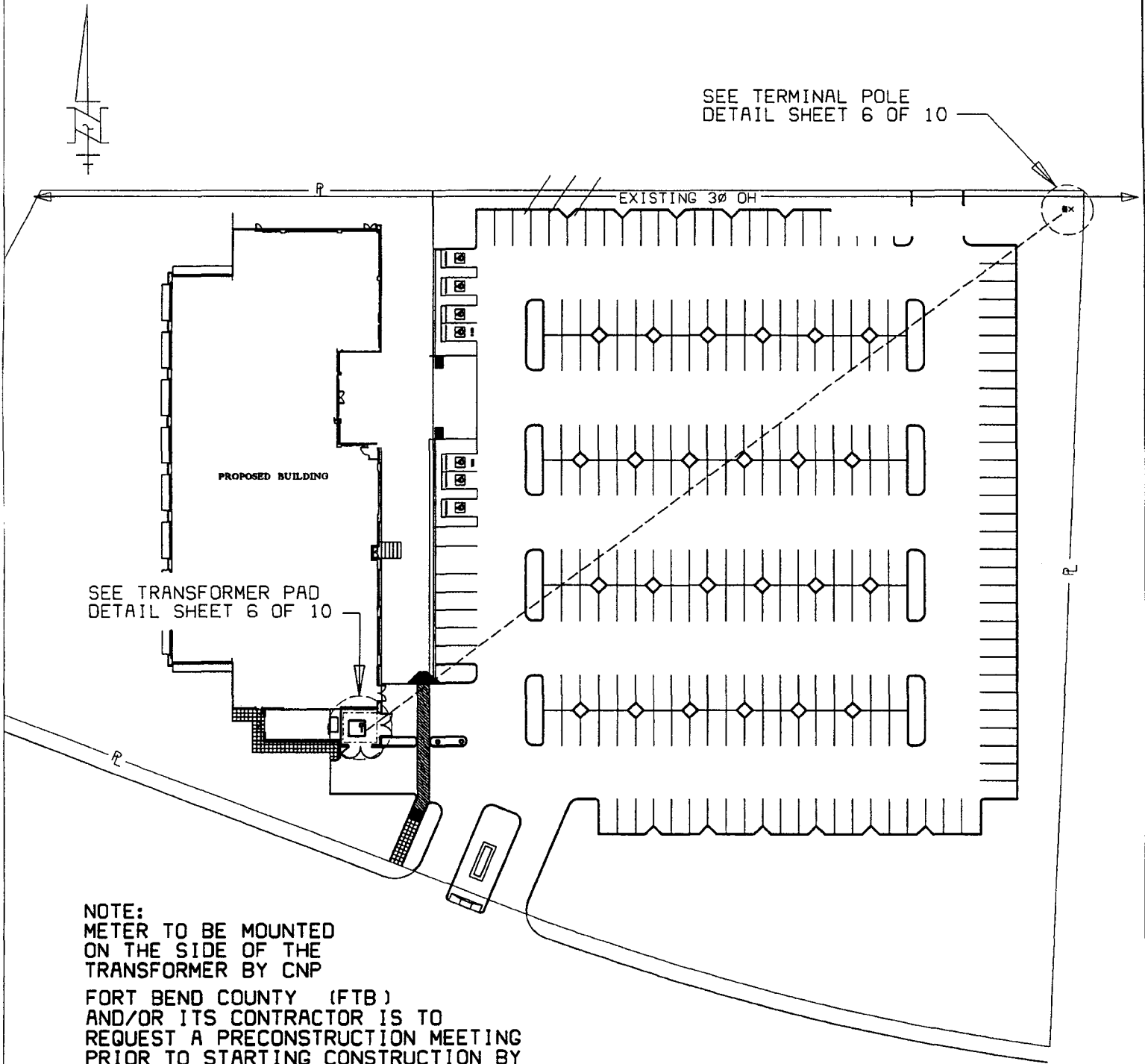
FIRM: _____ TELEPHONE: _____ DATE: _____



SHEET 5 OF 10
JOB# 42470247
REVISION #2

WORKING SKETCH

LAMBERT	SECTION	KEY MAP	FUNCTIONAL LOCATION	SCALE	CIRCUIT	ORDER NO.
5047	A3	610W		N. T. S.	AR43	42502587



SEE TRANSFORMER PAD
DETAIL SHEET 6 OF 10

SEE TERMINAL POLE
DETAIL SHEET 6 OF 10

NOTE:
METER TO BE MOUNTED
ON THE SIDE OF THE
TRANSFORMER BY CNP

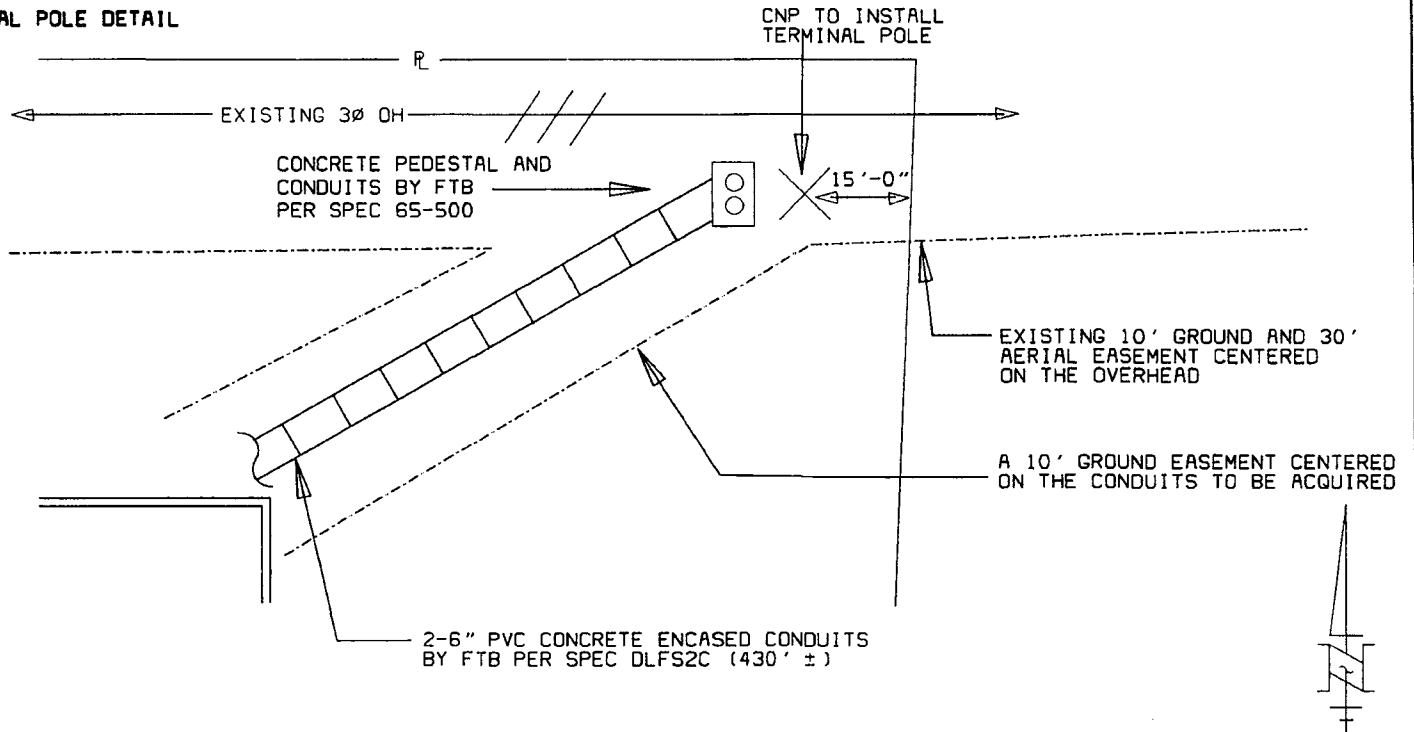
FORT BEND COUNTY (FTB)
AND/OR ITS CONTRACTOR IS TO
REQUEST A PRECONSTRUCTION MEETING
PRIOR TO STARTING CONSTRUCTION BY
CALLING (713) 207-6229

CENTERPOINT ENERGY (CNP) IS AUTHORIZED TO
UTILIZE FTB'S PARKING
AND DRIVEWAY FACILITIES FOR
EQUIPMENT ACCESS

WORKING SKETCH

LAMBERT	SECTION	KEY MAP	FUNCTIONAL LOCATION	SCALE	CIRCUIT	ORDER NO.
5047	A3	610W		N. T. S.	AR43	42502587

TERMINAL POLE DETAIL



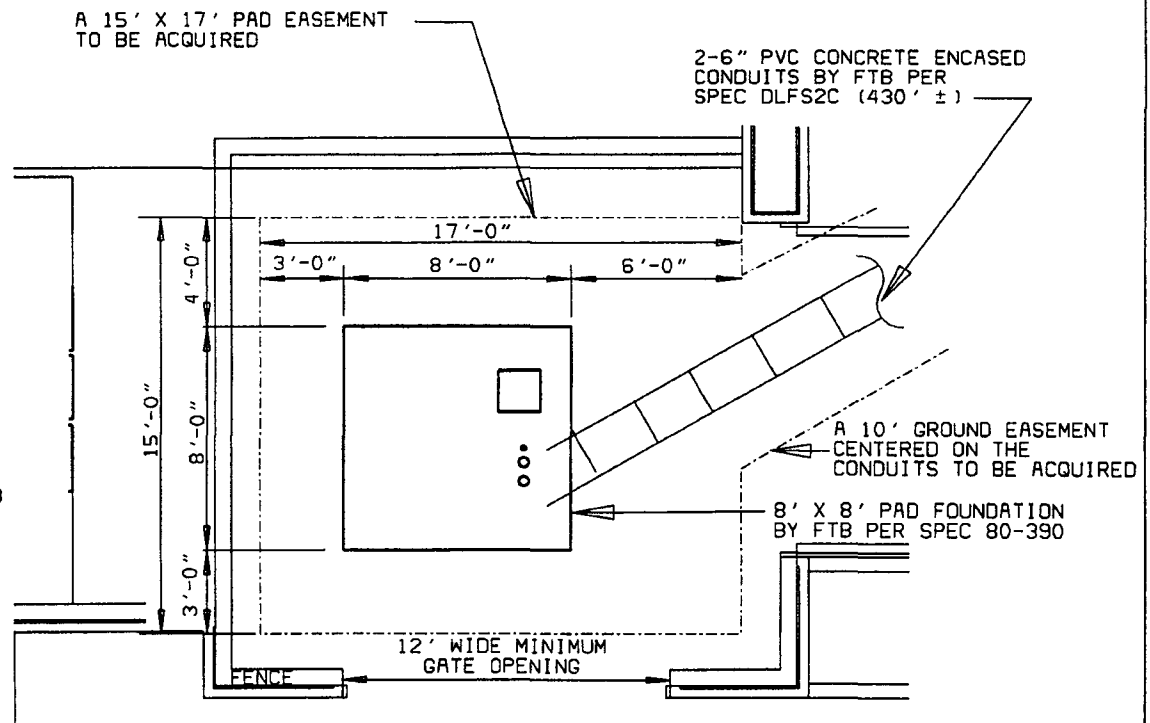
TRANSFORMER PAD DETAIL

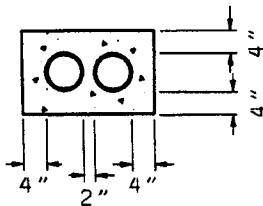
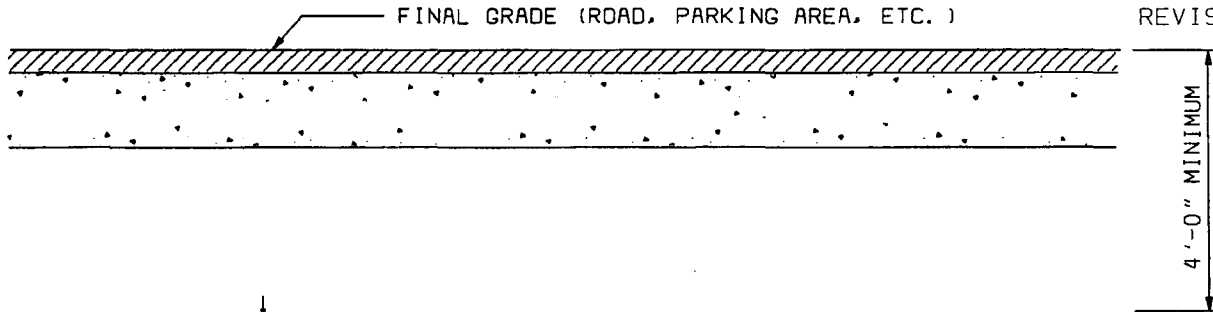
NOTES:
METER TO BE MOUNTED ON THE SIDE OF THE TRANSFORMER BY CNP

FTB MUST MAINTAIN A 5' HORIZONTAL CLEARANCE FROM PARALLEL UTILITIES AND A 1' VERTICAL CLEARANCE WHEN CROSSING UTILITIES

REQUIRED MINIMUM 12' WIDE ALL-WEATHER HS-20-44 LOADING ACCESS ROAD TO SIDE OF TRANSFORMER THIS REQUIREMENT IS FOR THE LIFE OF THE SERVICE

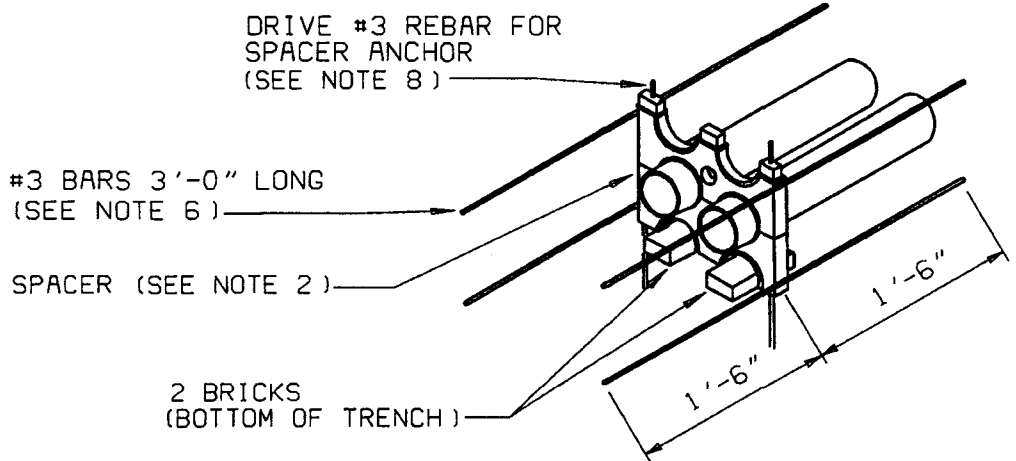
PROPOSED FENCE MUST HAVE 50% AIR FLOW DESIGN TO BE APPROVED BY CNP PRIOR TO CONSTRUCTION. GATE 12' MIN AND 24 HOUR ACCESS REQUIRED





2 - 6"
 CONDUITS

FTB AND/OR ITS CONTRACTOR IS TO REQUEST A PRECONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION BY CALLING (713) 207-6229



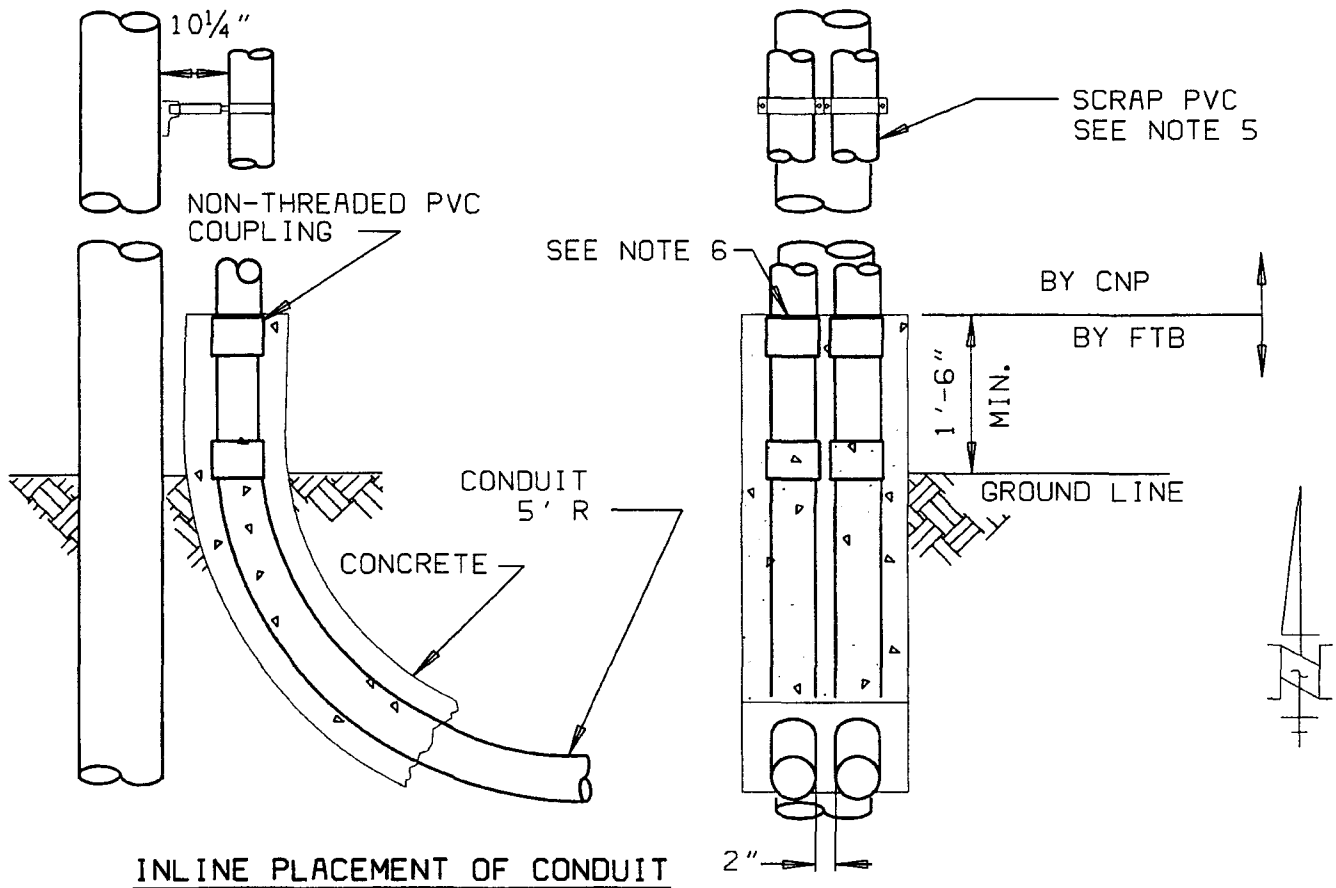
NOTES:

1. CONDUIT TO BE PVC, MINIMUM GRADE TYPE EB.
2. SPACERS SHOULD BE INSTALLED NOT MORE THAN 10'-0" APART.
3. CONDUITS TERMINATING AT MANHOLES SHOULD BE SLOPED 0.5% DOWN TOWARD MANHOLE.
4. ALL EXTERIOR CONCRETE COVER DIMENSIONS ARE MINIMUM.
5. CONCRETE SHALL BE IN ACCORDANCE WITH CNP SPECIFICATION 007-221-01, LATEST REVISION.
6. PLACE REINFORCING BARS IN 4 CORNERS OF THE CONCRETE WHERE SPACERS ARE USED.
7. ON COLD JOINT CONCRETE POUR USE #5 REBAR (3'-0" IN LENGTH. EXPOSED 1'-6").
8. LENGTH OF REBAR FOR SPACER ANCHOR WILL VARY PER DUCT BANK HEIGHT.
9. CONDUITS ENDS SHALL BE PLUGGED WITH A DUCT CAP OR OTHER TYPE OF CAPPING DEVICE.
10. A ONE FOOT VERTICAL CLEARANCE MUST BE MAINTAINED BETWEEN CNP'S DUCTBANK AND ALL NON-CNP FACILITIES CROSSING THE DUCTBANK.
11. A FIVE FOOT HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN CNP'S DUCTBANK AND ALL NON-CNP FACILITIES RUNNING PARALLEL TO THE DUCTBANK (JOINT TRENCHING NOT PERMITTED).
12. INSTALL JET LINE IN ALL CONDUITS AND A #14 AWG WIRE IN ONE CONDUIT.

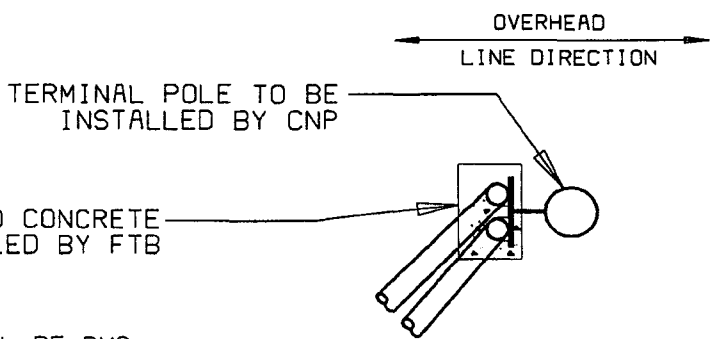
CENTERPOINT ENERGY (CNP)
 FORT BEND COUNTY LIBRARY (FTB)

THREE PHASE DUCTBANK
 FEEDER

BASED ON DISTRIBUTION STANDARD DLFS2C



INLINE PLACEMENT OF CONDUIT



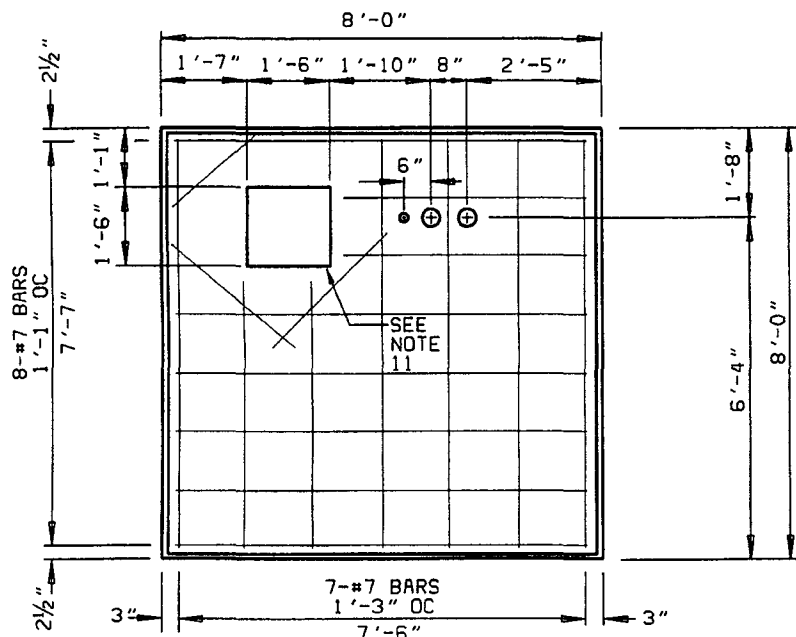
TOP VIEW

NOTES:

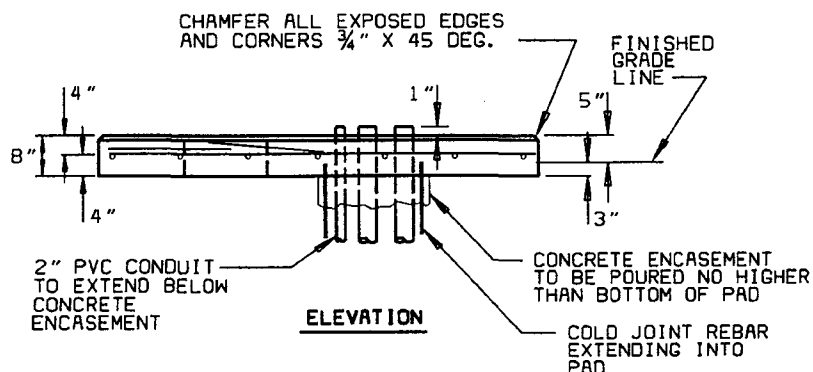
1. CONDUIT BENDS AT TERMINAL POLE SHALL BE PVC.
2. BRACE THE POLE SECURELY BEFORE TRENCHING.
3. INSTALL CONDUIT BENDS TO BASE OF POLE. ADD PORTIONS OF STRAIGHT CONDUIT AS NECESSARY TO OBTAIN THE PROPER HEIGHT ABOVE FINAL GRADE.
4. ATTACH COUPLING TO END OF CONDUIT.
5. INSERT, **BUT DO NOT GLUE.** A SHORT PIECE OF SCRAP PVC CONDUIT INTO THE TOP COUPLING. TIE CONDUIT TO BRACKET.
6. FORM AREA AROUND PEDESTAL TO THE TOP OF THE COUPLING. FORM PEDESTAL SO THAT NO CONCRETE WILL CONTACT POLE.
7. AFTER INSPECTION BY CNP, POUR CONCRETE TO TOP OF COUPLINGS.
8. **ALL CONDUITS SHALL HAVE A MINIMUM 4" CONCRETE COVER.**

CENTERPOINT ENERGY (CNP)
 FORT BEND COUNTY LIBRARY (FTB)

TERMINAL POLE CONDUIT
 PLACEMENT 12KV & 35 KV
 BASED ON DISTRIBUTION STANDARD 65-500



PLAN



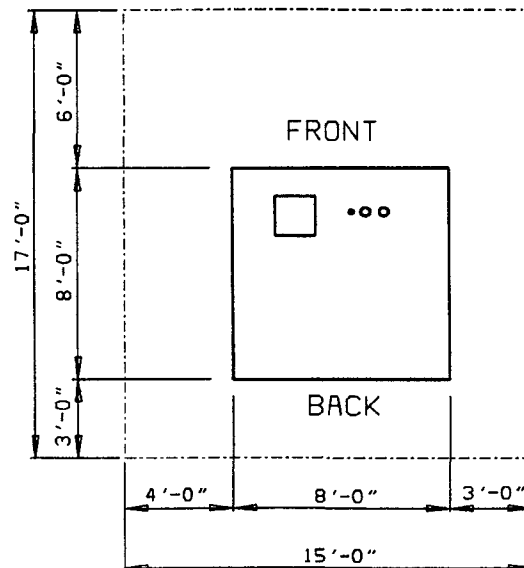
ELEVATION

NOTES:

1. CONCRETE SHALL BE IN ACCORDANCE WITH CNP SPECIFICATION 007-221-01, LATEST REVISION (MINIMUM COMPRESSION IN 28 DAYS, 3000 PSI).
2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS IN ACCORDANCE WITH A.S.T.M. SPECIFICATION A-615, GRADE 60, OR BETTER.
3. ALL SPLICES IN REINFORCING SHALL LAP A LENGTH EQUAL TO 24 BAR DIAMETERS.
4. ALL DIMENSIONS ON REINFORCING ARE TO THE CENTER OF BARS.
5. CONCRETE SHALL BE THOROUGHLY WORKED AROUND REINFORCING, ANY EMBEDDED FIXTURES AND INTO ALL CORNERS OF FORMS.
6. IF REQUIRED, GROUT SHALL BE A MIXTURE OF 1 PART CEMENT TO 2 PARTS SAND WITH ENOUGH WATER TO PRODUCE A WORKABLE MIXTURE.
7. CONCRETE IS TO BE POURED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS A MINIMUM 40° F. AND RISING.
8. STRIP BACK ALL VEGETATION AND APPROXIMATELY 3" OF TOP SOIL. REMOVE ALL LOOSE CLODS AND STONES. BACKFILL AND THOROUGHLY COMPACT ALL CONDUIT TRENCHES AND HOLES BEFORE CONCRETE IS PLACED.
9. REINFORCING SHALL HAVE A MINIMUM OF 2½" CONCRETE COVER.
10. **SLOPE PAD 1" FRONT TO BACK.**
11. THE SQUARE OPENING IS FOR FTB'S SECONDARY CONDUITS.
12. CNP WILL NOT ALLOW OTHER FACILITIES TO PASS BENEATH ITS EQUIPMENT PADS. A ONE FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN CNP PADS AND ALL OTHER FACILITIES.

REINFORCING SCHEDULE PER FOUNDATION				
MARK	QTY.	SIZE	LENGTH	REMARKS
MK-1	11	#7	7'-7"	STRAIGHT
MK-2	2	#7	4'-6"	STRAIGHT
MK-3	0	#7	2'-4"	STRAIGHT
MK-4	0	#7	5'-0"	STRAIGHT
MK-5	2	#7	4'-6"	STRAIGHT
MK-6	2	#7	3'-0"	STRAIGHT
MK-7	1	#7	2'-0"	STRAIGHT

MATERIAL ESTIMATE PER FOUNDATION	
DESCRIPTION	QTY.
REINFORCING STEEL #7	224 LBS
CONCRETE (5 SACK)	1¾ CU. YDS.
2" PVC CONDUIT	5 FT
TYPE EB OR BETTER PVC CONDUIT, 90 DEG, 60" R	2



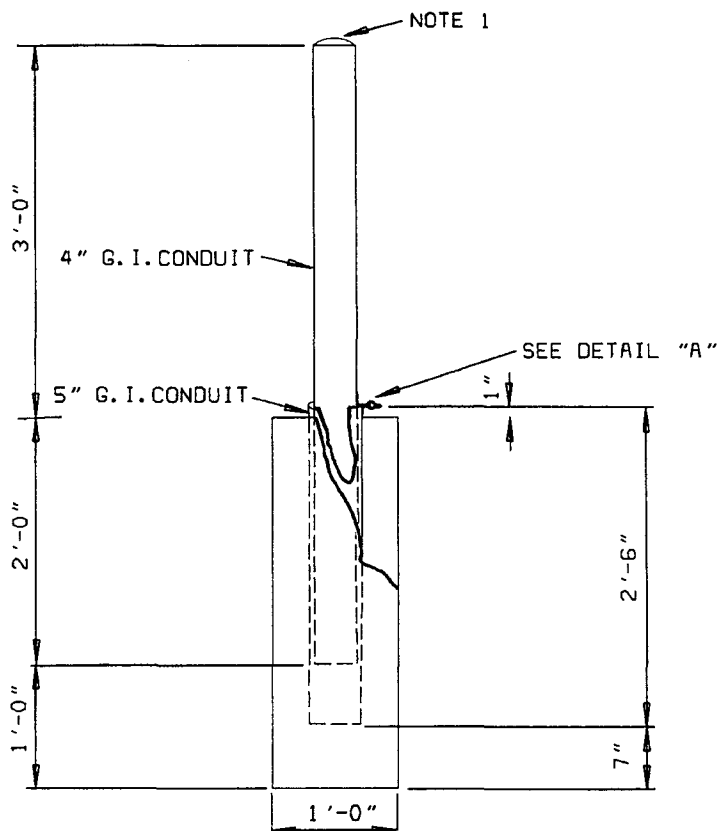
MINIMUM EASEMENT REQUIREMENTS

**EQUIPMENT WEIGHT
 20,000 LBS
 MAXIMUM**

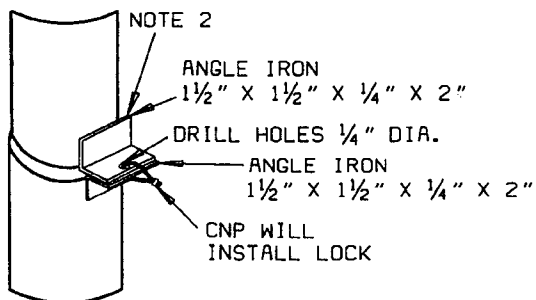
**CENTERPOINT ENERGY (CNP)
 FORT BEND COUNTY LIBRARY (FTB)**

**150-1000 KVA, 3 PHASE
 PMT FOUNDATION, 12KV & 35 KV
 (SPECIAL APPLICATION)**

BASED ON DISTRIBUTION STANDARD 80-390



PROTECTIVE BARRIER
 (REMOVABLE)



DETAIL "A"

NOTES:

1. 4" G.I. CONDUIT TO BE FILLED WITH CONCRETE.
2. ANGLE TO BE WELDED TO G.I. CONDUIT. ALL EXPOSED METAL TO BE PAINTED WITH GALVANOX PAINT.
3. SEAL GAP BETWEEN CONDUITS WITH DUCT SEAL FOR WATER TIGHT FIT.
4. USE 5" PLUG TO PREVENT CONCRETE FROM COMING UP 5" G.I. CONDUIT.

CENTERPOINT ENERGY (CNP)

PROTECTIVE BARRIER
 (REMOVABLE)

BASED ON DISTRIBUTION STANDARD 80-950