

Meeting Date: 1/13/2015

Agenda Item 8

REQUESTED COMMISSION ACTION:

Consent Ordinance Resolution Consideration Workshop

SHORT TITLE OR MOTION: A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE AN APPLICANT-INSTALLED FACILITIES AGREEMENT AND A CITY/COUNTY RIGHT-OF-WAY AGREEMENT FOR UNDERGROUND CONVERSIONS BETWEEN THE CITY OF POMPANO BEACH AND FLORIDA POWER & LIGHT COMPANY; PROVIDING AN EFFECTIVE DATE. (NO COST)

SUMMARY OF PURPOSE AND WHY:

At the December 9, 2014 meeting, the City Commission authorized funding in the amount of \$287,302 for an underground facilities agreement to convert existing overhead electrical lines to underground in the "Old Pompano Area" (along West Atlantic Blvd, then, north to NE 4th St, East of N. Dixie Hwy and West to NE 1st Ave). Two additional agreements with Florida Power & Light are necessary to accomplish this work: 1) An Applicant-Installed Facilities Agreement for Underground Conversions which establishes the terms and conditions on how the work is to be executed by the City's hired contractor, Burkhardt Construction, Inc. 2) A City/County Right of Way (ROW) Agreement for Underground Conversions which authorizes FP&L to use the existing ROW to bury existing overhead electric lines and place above ground transformers and switch cabinets where necessary.



Accomplishing this item supports achieving objective 7.4.1. "Complete Old Pompano Streetscape" identified with Goal 7.0 Old Pompano/Downtown, identified in the City's: Great Places Strategy

QUESTIONS TO BE ANSWERED BY ORIGINATING DEPARTMENT:

(1) Origin of request for this action:	Staff
(2) Primary staff contact:	Robert A. McCaughan, Public Works Director Ext 4097
(3) Expiration of contract, if applicable:	N/A and Horacio Danovich
(4) Fiscal impact and source of funding:	N/A

DEPARTMENTAL COORDINATION	DATE	DEPARTMENTAL RECOMMENDATION	DEPARTMENTAL HEAD SIGNATURE
Public Works	12/22/14	APPROVE	<i>Robert McCaughan</i>
Finance	12/26/14	APPROVE	<i>A. Jensen</i>
City Attorney	12/26/14	APPROVE	<i>[Signature]</i>
Budget	12-29-14	APPROVE	<i>[Signature]</i>

Advisory Board
 Development Services Director
 City Manager *[Signature]*

Demetrius W. Beaulieu

ACTION TAKEN BY COMMISSION:

<u>Ordinance</u>	<u>Resolution</u>	<u>Consideration</u>	<u>Workshop</u>
1st Reading	1st Reading	Results:	Results:
_____	_____	_____	_____
_____	_____	_____	_____
2nd Reading	_____	_____	_____
_____	_____	_____	_____



City Attorney's Communication #2015-356
December 16, 2014

TO: Robert A. McCaughan, Public Works Director
FROM: Jill R. Mesojedec, FRP, Paralegal
VIA: Gordon B. Linn, City Attorney 
RE: Resolution – Florida Power & Light Company / Underground Conversions

As requested in your memorandum dated December 12, 2014, Public Works Department Memorandum No. 2015-017, I have prepared and attached the following captioned resolution:

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE AN APPLICANT-INSTALLED FACILITIES AGREEMENT AND A CITY/COUNTY RIGHT-OF-WAY AGREEMENT FOR UNDERGROUND CONVERSIONS BETWEEN THE CITY OF POMPANO BEACH AND FLORIDA POWER & LIGHT COMPANY; PROVIDING AN EFFECTIVE DATE.

Please ensure that the appropriate city signature pages are attached to each agreement prior to presentation to the City Commission.



JILL R. MESOJEDEC

/jrm
l:cor/pw/2015-356

Attachment

RESOLUTION NO. 2015-_____

CITY OF POMPANO BEACH
Broward County, Florida

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE AN APPLICANT-INSTALLED FACILITIES AGREEMENT AND A CITY/COUNTY RIGHT-OF-WAY AGREEMENT FOR UNDERGROUND CONVERSIONS BETWEEN THE CITY OF POMPANO BEACH AND FLORIDA POWER & LIGHT COMPANY; PROVIDING AN EFFECTIVE DATE.

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA:

SECTION 1. That Agreements between the City of Pompano Beach and Florida Power & Light Company, copies of which Agreements are attached hereto and incorporated by reference as if set forth in full, is hereby approved.

SECTION 2. That the proper City officials are hereby authorized to execute said Agreements between the City of Pompano Beach and Florida Power & Light Company.

SECTION 3. This Resolution shall become effective upon passage.

PASSED AND ADOPTED this _____ day of _____, 2015.

LAMAR FISHER, MAYOR

ATTEST:

MARY L. CHAMBERS, CITY CLERK

ATTACHMENT A

**APPLICANT-INSTALLED FACILITIES AGREEMENT FOR UNDERGROUND
CONVERSIONS (WR# 4325648)**

**APPLICANT-INSTALLED FACILITIES AGREEMENT FOR UNDERGROUND
CONVERSIONS (WR # 4325648)**

This Agreement, made and entered into this ____ day of _____, 20____, by and between CITY OF POMPANO BEACH (the "Applicant"), a Florida municipal corporation or county with an address of 100 W. Atlantic Blvd., Rm. 276, Pompano Beach, FL and FLORIDA POWER & LIGHT COMPANY ("FPL"), a Florida corporation organized under the laws of the State of Florida, with an address of P.O. Box 14000, 700 Universe Boulevard, Juno Beach, FL 33408-0429.

WITNESSETH:

WHEREAS, the Applicant has executed the appropriate underground facilities conversion agreement ("Conversion Agreement") with FPL to convert certain overhead electric distribution facilities (collectively the "Existing Overhead Facilities") to underground distribution facilities (collectively the "Underground Facilities"), as described in the aforementioned Conversion Agreement (hereinafter the "Conversion");

WHEREAS, the Applicant desires to perform itself, or through its Contractors, certain Work as such term is described in Exhibit A associated with the Conversion;

WHEREAS, FPL is willing, subject to all the terms and conditions set forth below in this Agreement, to allow the Applicant to perform the Work based on Applicant's assurance that such Work will be in accordance with FPL's designs, instructions, standards and specifications, and such Work will not adversely impact FPL or its electric customers;

NOW, THEREFORE, in recognition of the foregoing premises, and in consideration of the covenants and promises set forth herein below, FPL and Applicant do hereby agree as follows:

1. **Compliance with Tariff.** Applicant shall comply with and abide by the requirements, terms, and conditions of this Agreement, the Conversion Agreement, and FPL's electric tariff (the "Tariff").
2. **Conditions for Work to be Performed.** Applicant shall, at its own cost and expense, perform or cause to be performed, all Work, as described in Exhibit A, in accordance with the terms and conditions of this Agreement and the standards and specifications shown in Exhibit B. The Applicant shall provide all survey and staking to ensure that all Underground Facilities are installed as shown in the Conversion Agreement and provide As-Built prints to FPL within two (2) weeks of installation, signed and certified by a Florida registered surveyor along with a FPL "Redline" document.
3. **Commencement of Work.** Applicant shall perform the Work, or any portion of the Work, only upon receipt of a notice to proceed containing the approved drawings, specifications and instructions from FPL ("Notice to Proceed"). After receipt of the Notice to Proceed,

Applicant shall provide written notice of intent to commence work to FPL at least five (5) days prior to commencement of such Work. Applicant shall not perform any excavation work without first notifying Sunshine State One Call for identification and marking of existing underground utilities and complying with the excavation requirements set forth in Florida Statute Chapter 556.

4. **Materials.** All Materials are to be supplied by FPL and shall be picked up by Applicant at the following address _____ at a mutually agreed upon time, typically with 5 business days minimum notice, but no more than 15 business days notice, unless mutually agreed upon. Alternatively, FPL will, at Applicant's expense, have the material delivered to a mutually agreed upon location. Applicant assumes liability for any materials lost, stolen or damaged once these materials are picked up by, or delivered to, the Applicant.

5. **Contractors.** Applicant may enter into a contract with a contractor for the performance of the Work, or any portion thereof, provided that the contractor has been approved by FPL in writing prior to execution of such contract. Applicant shall not make any substitution of any contractor for the performance of Work unless the substitution is approved by FPL in writing. The Applicant's contractor(s) shall perform ALL work as outlined within Exhibit A & Exhibit B. No contract or purchase order between Applicant and its contractor(s) shall bind or purport to bind FPL, but each contractor entering into a contract with Applicant with respect to the Work shall name FPL as an intended third-party beneficiary and include a provision permitting its assignment to FPL upon FPL's written request, following default by Applicant or termination or expiration of this Agreement. Applicant shall provide FPL with written certification from each of its contractors performing Work that all warranties, guarantees and obligations of such contractors are equivalent or better than those granted by such contractor to FPL for similar work and shall require that each such contractor name FPL as an intended third party beneficiary of such warranties, guarantees and obligations with the same rights of enforcement as Applicant. Applicant shall assign all representations, warranties, guaranties, and obligations of all contractors at the request and direction of FPL, and without recourse to Applicant, to FPL upon default by Applicant or termination or expiration of this Agreement; provided, however, that, notwithstanding such assignment, Applicant shall be entitled to enforce each such representation, warranty, guaranty, and obligation so long as Applicant has any liability under this Agreement. Applicant hereby assigns to FPL, effective as of the termination or expiration of this Agreement, all representations, warranties, guaranties and obligations of all Contractors.

6. **Right of Entry.** FPL reserves the right, together with its agents or designees to enter the Jobsite as it may elect for the purpose of inspecting the Work, or constructing or installing such collateral work as it may desire, or testing, boring or surveying, or any other purpose.

7. **Inspection and Correction of Deficiencies.**
 - 7.1. All Work shall be properly inspected and tested, if appropriate, by Applicant and shall at all times be subject to additional inspection by FPL and its designee(s).

- 7.2. Neither the failure to make such inspection, nor the failure to discover defective workmanship, materials, or equipment, nor approval of or payment to Applicant for such Work shall prejudice the rights of FPL thereafter to correct or reject the same.
- 7.3. Applicant shall correct any deficiencies found with the Work, including but not limited to discrepancies that are inconsistent with FPL's design, instructions, standards or specifications within two (2) business days. If Applicant does not adequately rectify the identified deficiencies in the required timeframe, FPL may, at its sole discretion, perform, or have performed by its contractor the required repairs and Applicant shall pay FPL for any costs incurred. These requirements apply whether the discovery of deficiencies occurs while Applicant is performing its Work or while FPL, or its contractor, is performing its portion of the work.
- 7.4. If any Work or part thereof is covered over contrary to the requirements of this Agreement or the written request of FPL, it must, if required by FPL, be uncovered for observation and inspection and covered again at Applicant's sole expense.
- 7.5. If any Work that FPL has not specifically requested to observe and inspect prior to being covered has been covered, FPL may request to see such Work or part thereof and it shall be uncovered by Applicant. If such Work or part thereof is found to be in accordance with this Agreement, the cost of uncovering and covering again shall be paid by FPL. If such Work or part thereof fails to meet the requirements of this Agreement, Applicant shall pay all costs of uncovering, correcting, and covering again.
- 7.6. Applicant shall pay FPL for all time spent reviewing and inspecting Applicant's Work.
- 7.7. No electric customers shall be connected to the Underground Facilities prior to all deficiencies being rectified.

8. Indemnity / Liability of Applicant.

- 8.1. Applicant shall protect, defend, indemnify and hold FPL free and unharmed from and against any liabilities whatsoever resulting from or in connection with this Agreement, the Conversion or in connection with the performance of the Work by the Applicant, its employees, Contractors or Contractor employees, whether or not such liabilities are due to or caused in whole or in part by negligence of FPL; including but not limited to payment disputes between contractor and Applicant.
- 8.2. Applicant shall assume full responsibility for all damages and all restoration arising in connection with the Work.

9. **Design Work.** FPL shall provide all design, instruction, standards and specifications necessary to perform the Conversion.

10. **Completion of Work and Ownership.** Applicant shall complete the Work by [REDACTED] 20[REDACTED] and notify FPL when said Work is complete. Upon FPL's final written approval of the completion of the Work ("Acceptance"), Applicant acknowledges that all rights, title and interest, free and clear of all liens, in and to the Work shall vest in FPL. If requested by FPL, Applicant shall provide FPL, in a form acceptable to FPL, an affidavit of Applicant certifying payment of all indebtedness to all Contractors and a written release of liens from Applicant and each Contractor.

11. **No Liability by FPL.** FPL assumes no liability due to any damage, misunderstanding of installation drawings or specifications, or any actions due to Applicant or its Contractor.

12. **Suspension for Cause:**

12.1. FPL may, by Notice, temporarily suspend the Work, or any portion thereof, under this Agreement when the performance by Applicant or Contractor is unsatisfactory to obtain the results required by this Agreement.

12.2. The methods by which Applicant performs its Work are entirely the responsibility of Applicant. FPL's right to suspend Work is intended solely to verify that the Work being performed by Applicant and its Contractor conforms to the design, instruction, standards and specifications and shall not obligate FPL to review the efficiency, adequacy or safety of Applicant's or its Contractors methods or means of operation or construction.

12.3. Any additional costs incurred by Applicant resulting from such suspension shall be borne solely by Applicant.

12.4. If Applicant immediately corrects the unsatisfactory condition FPL shall authorize resumption of the Work. Applicant's failure to immediately effect correction of the unsatisfactory conditions shall be cause for termination of this Agreement.

13. **Termination for Cause:**

13.1. FPL may, upon Notice to Applicant, and without prejudice to any remedy available to FPL under law, in equity or under this Agreement, terminate the whole or any part of this Agreement for cause and take possession of the Work without termination charge, penalty or obligation in the event Applicant fails to perform a material obligation under this Agreement and fails to cure such material obligation default within a reasonable period of time, but in no event more than ten (10) business days, after Notice from FPL specifying the nature of such default (any such termination referred to as a "Termination for Cause").

13.2. In the event of Termination for Cause by FPL, Applicant shall:

- a. Unless instructed otherwise in the Notice, immediately stop all Work hereunder;
- b. Issue no further contracts except with the prior written consent of FPL;
- c. Assign to FPL, to the extent requested by FPL, all rights of Applicant under contracts outstanding;
- d. Terminate, to the extent requested by FPL, outstanding contracts;
- e. Fully cooperate and refrain from hindering or interfering in any manner with any other persons or parties currently or prospectively performing the Work; and
- f. Take any other action toward termination, or toward preservation of the Work, that FPL may direct.

13.3. Upon a Termination for Cause, all obligations of FPL hereunder shall terminate effective immediately. Upon such Termination for Cause, FPL may either rework or take over the terminated Work and proceed to provide such materials, supplies, equipment and labor of both FPL and FPL contractors, as may be reasonably necessary to complete said Work. FPL may have any partially fabricated portion of the Work removed from Applicant's or contractor's facilities upon Notice to Applicant. Applicant shall be liable for any increase of FPL's costs, including rework costs, incurred by FPL as a result of FPL's termination of the contract for cause.

13.4. In the event of Termination for Cause, FPL shall have no liability to Applicant for costs incurred by Applicant as a result of such termination.

14. **Termination Prior to Construction.** Applicant may terminate this Agreement at any time prior to the start of construction. If Applicant elects to still complete the Conversion, then the Contribution-In-Aid-of-Construction (CIAC) amount provided in the Conversion Agreement shall be revised accordingly. The revised Conversion Agreement must be executed and any additional CIAC due received by FPL prior to the start of construction.
15. **Assignment.** This Agreement is not assignable.
16. **Applicant's Payments to FPL.** Any monies that are owed by Applicant to FPL under this Agreement shall be paid to FPL within thirty (30) days of FPL producing an invoice.
17. **Notice.** As used herein, the term "Notice" shall mean any formal written correspondence providing notice of action, purpose, intent or the like given under the provisions of this Agreement. Unless otherwise provided in this Agreement, Notice shall be delivered in

person, by courier or by certified mail and shall be effective when received. General correspondence is not categorized as Notice.

"CITY":

Witnesses:

CITY OF POMPANO BEACH

By: _____
LAMAR FISHER, MAYOR

By: _____
DENNIS W. BEACH
CITY MANAGER

Attest:

(SEAL)

MARY L. CHAMBERS
CITY CLERK

Approved As To Form:

GORDON B. LINN
CITY ATTORNEY

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this ____ day of _____, 2015 by LAMAR FISHER, as Mayor, DENNIS W. BEACH as City Manager and MARY L. CHAMBERS, as City Clerk of the City of Pompano Beach, Florida, a municipal corporation, on behalf of the municipal corporation, who are personally known to me.

NOTARY'S SEAL:

NOTARY PUBLIC, STATE OF FLORIDA

(Name of Acknowledger Typed, Printed or Stamped)

Commission Number

Exhibit A

WR # 4325648

Work to be Performed:

Applicant shall:

- Install all conduit and concrete products based on the attached specifications and in the locations as indicated on the attached drawings.
- Install cable, transformers and switch pads including the primary and secondary cable terminations and connections. FPL will be responsible for energizing the new underground circuit(s) to the existing FPL electrical system.

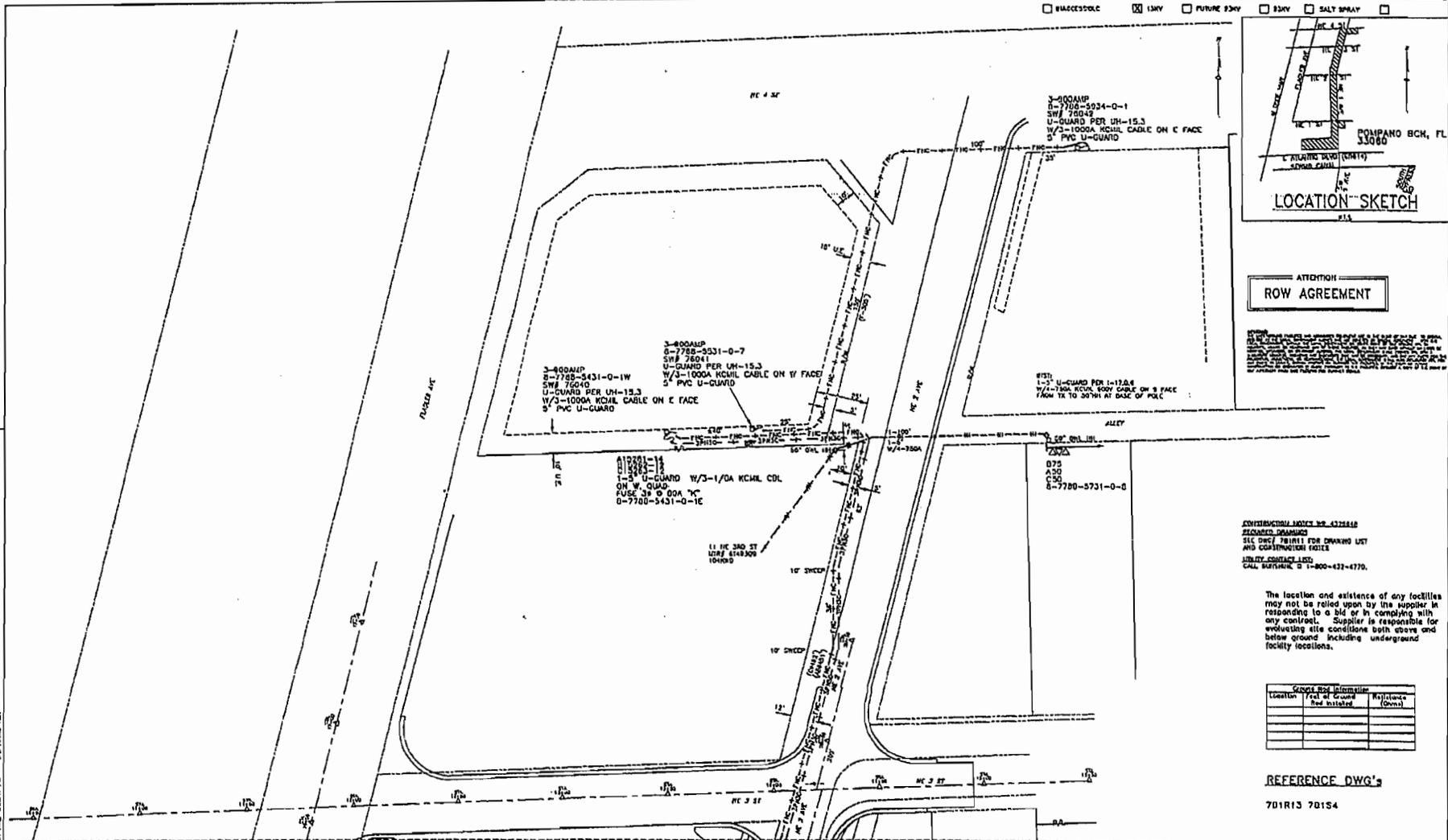
Exhibit B

WR # 4325648

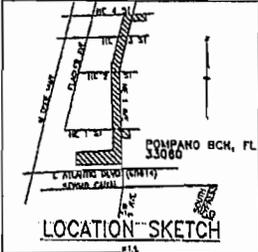
Standards and Specifications

ATTACHMENT B

LOCATION MAPS



BRACKLEDOLE 15KV FUTURE 33KV 8KV SALT SPRAY



ATTENTION
ROW AGREEMENT

THESE DRAWINGS ARE THE PROPERTY OF THE CITY OF POMPAÑO BEACH, FLORIDA. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER IS PROHIBITED. THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE OR INJURY RESULTING FROM THE USE OF THESE DRAWINGS.

CONTRACTOR'S NOTICE BY 4325648
 PROJECT NUMBER
 SEE DWG 781R1 FOR DRAWING LIST
 AND CONSTRUCTION NOTES
 UTILITY GENERAL LOG
 CALL BUREAU, D 1-800-432-4770.

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for investigating site conditions both above and below ground including underground facility locations.

GROUP ROW INFORMATION		
Location	File # of Record	Reference (Open)

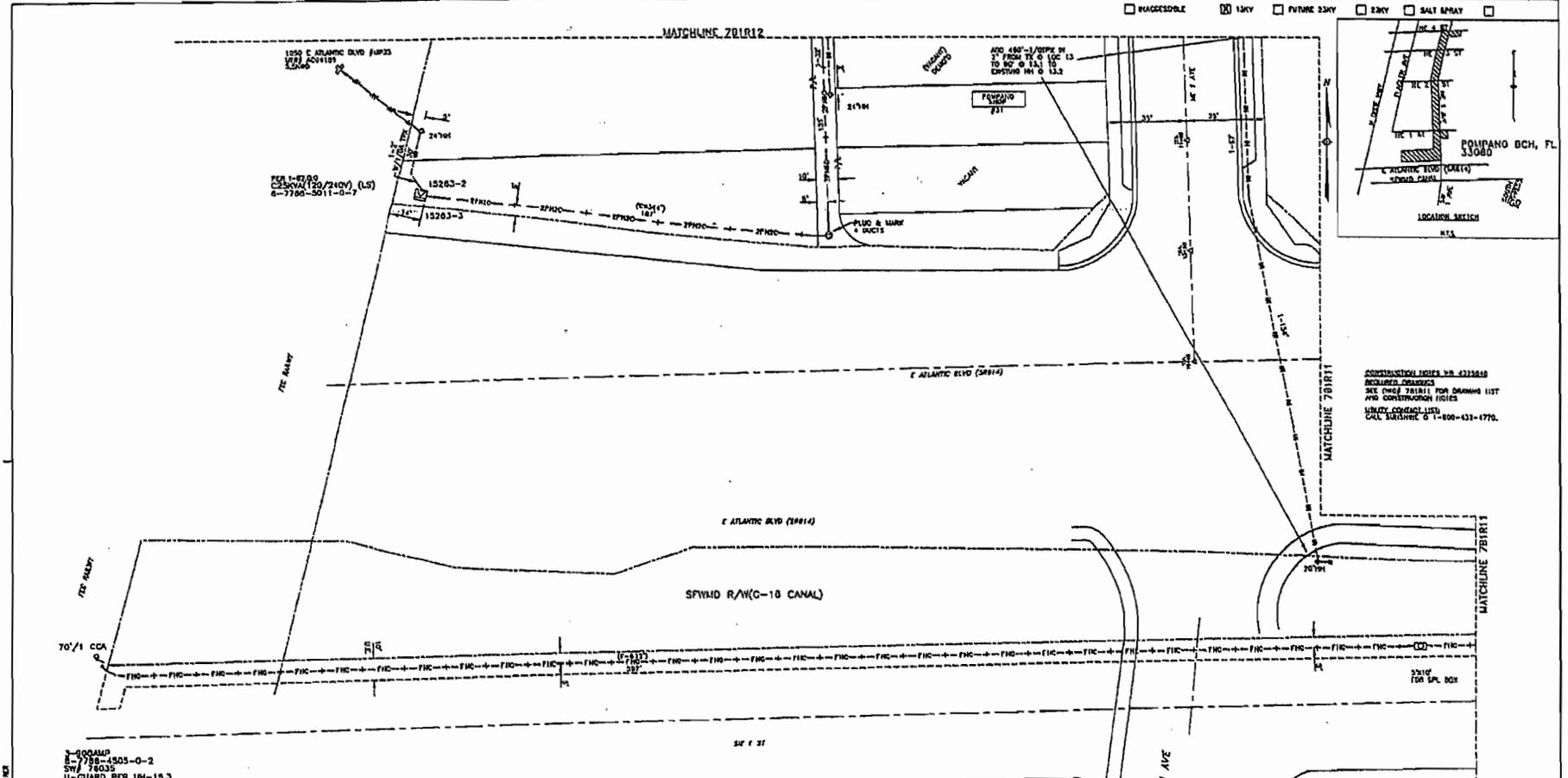
REFERENCE DWG'S
701R13 781S4

DESIGNED BY: P. HURLACHER
 DRAWN BY: K. SHERMAN
 DATE: 10/23/14
 MAP NO.: U-0343
 DWG NO.: 781R14
 4325648

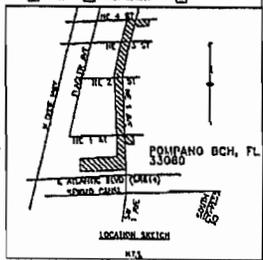
CITY OF POMPAÑO BEACH
 V/O ATLANTIC BLVD & NE 1 AVE.
 POMPAÑO BEACH / BROWARD COUNTY, FL

PLT DATE: 11/20/14
 CDR: MHC: RSR
 DATE: 11/20/14

AS-BUILT COPY	AS-BUILT CREW PRINT
TYPED: <input type="checkbox"/> FILED: <input type="checkbox"/> ALL CERTIFIED COPIES AS SHOWN ON THIS AS-BUILT PRINT Indicate changes shown on RSD.	Estimated: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Wire Mark: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Map Posting: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>
SIGNATURE: <input type="checkbox"/> ALL CERTIFIED COPIES HAVE BEEN SHOWN & VERIFIED TO BE ACCURATE. ANY CHANGES, VALUES ARE SHOWN AT ALL LOCATIONS.	Pooled by: _____ Telephone Request: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> CITY Request: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>
4325648 0 10/23/14 CITY OF BROWARD COUNTY, FLORIDA CITY OF POMPAÑO BEACH	FPL 4325648



BIACCESSIBLE
 15KV
 FUTURE 25KV
 2KV
 SALT BRINE



CONSTRUCTION NOTES: SEE 4225448
 INCLUDE CHANGES
 SEE DWG 701R11 FOR DRAWING LIST
 AND CONSTRUCTION NOTES
 UTILITY CONTACT LIST
 CALL 305/966-1-800-433-4776.

400348
 E-7018-4305-0-2
 SW 1 8035
 U-GUARD PER UH-19.3
 W/3-1000A NCHL CABLE ON S FACE
 6" PVC U-GUARD

ATTENTION
ROW AGREEMENT

The location and existence of any facilities may not be shown on the map. It is the responsibility of the user to verify the location and existence of any facilities shown on the map. The user is advised to contact the utility owner for more information.

The location and existence of any facilities may not be shown on the map. It is the responsibility of the user to verify the location and existence of any facilities shown on the map. The user is advised to contact the utility owner for more information.

Location	Facility	Resistance (Ohms)

REFERENCE DWG'S
 701R11 701S4
 701PP2

PLOT DATE: 01/23/2014 PLOT TIME: 12:45:30 PM Dwg Name: 701

AS-BUILT COPY 4225448 01/23/14 OH TO US CONV. PULL FOR 4" PRI CANAL, INST TYS TO SVC POMPANO BEACH	AS-BUILT CHECK PRINT 4225448 01/23/14 OH TO US CONV. PULL FOR 4" PRI CANAL, INST TYS TO SVC POMPANO BEACH	Easement? <input checked="" type="checkbox"/> <input type="checkbox"/> Tree Work? <input type="checkbox"/> <input type="checkbox"/> Man Paving? <input checked="" type="checkbox"/> <input type="checkbox"/>	Survey/Station? <input checked="" type="checkbox"/> <input type="checkbox"/> Design/Station? <input checked="" type="checkbox"/> <input type="checkbox"/> French Foot? <input type="checkbox"/> <input type="checkbox"/> City or Dist. Dist. COUNTY AIR STATE RD X FAA WVD 2 RR 2000 COUNTY NO. TRANSM. Paved by: Telephone Request? <input checked="" type="checkbox"/> <input type="checkbox"/> CATY Request? <input checked="" type="checkbox"/> <input type="checkbox"/>	DESIGNED BY: P. HARRINGER DRAWN BY: N. SHERMAN/PA DATE: 10/02/14 MAP NO.: U-0343 SHEET NO.: 701R10 4225448	OH TO US CONVERSION CITY OF POMPANO BEACH 1000 ATLANTIC BLVD & NE 1 AVE POMPANO BEACH / BROWARD COUNTY, FL 305-432-5648
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ATTACHMENT C

SPECIFICATIONS FOR UNDERGROUND CONDUIT INSTALLATION

SPECIFICATIONS FOR UNDERGROUND CONDUIT INSTALLATION

1. Conduit, handhole, and transformer pad placement shall be in the easement provided and in accordance with the design drawings and field staking.
2. Use only FPL supplied conduit with FPL supplied bends. (Figure 1)
3. Glue all joints securely with FPL supplied glue. (Appendix A)
4. FPL conduit markers must be placed at all conduit ends. (Figure 1)
5. Primary conduit is to have a minimum of 36 inches of cover. Secondary conduit is to have a minimum of 24 inches of cover. (Figure 1). Secondary conduit may be placed at 36" depth when in the same trench as primary conduit.
6. All service and street light conduit is to have 24 – 30 inches of cover at property line. All future service stub-outs at transformer locations to be installed with 90's. Where primary, secondary, or street light conduit runs turn horizontally, 36 inch radius 90 degree bends are to be used.
7. Cap all ends of the conduit with FPL supplied end caps. Denote termination point of each conduit run on the capped end, (Appendix B). All conduit ends are to be terminated 1 – 2 feet above final grade except at transformer locations where conduit ends are to be terminated 3 inches above final grade. (Figure 3)
8. Install 1 #12 copper locate wire supplied by FPL in each trench per attached specs (Figure 4). All ends of the #12 copper locate wire must be exposed above grade, and secured with a tie wrap to a piece of stubbed up conduit for future locates. (Figure 4)
9. Conduits terminated at transformer locations to be installed with templates supplied by FPL per Figure 3A, 3B, or 3C according to the type of transformer being installed. (Consult your Service Planner).

10. Concrete transformer slabs provided by FPL are to be installed level on compacted fill at final grade and oriented as shown on the FPL design drawing(s) (Figure 3)
11. Conduits terminated at future secondary handhole locations to be installed per Figure 2. If secondary handholes are being installed at the time of conduit installation, install 45 degree bends as shown in Figure 1.
12. Primary splice handhole to be installed with electronic cable marker. (Figure 2A)
13. Install a continuous length of pull string in all conduit runs.
14. Backfill operations are to be done carefully with special attention given to utilizing clean fill, thereby assuring the elimination of rock and other scrap material to insure that the conduit will not be damaged or marking devices moved and proper compaction is achieved.

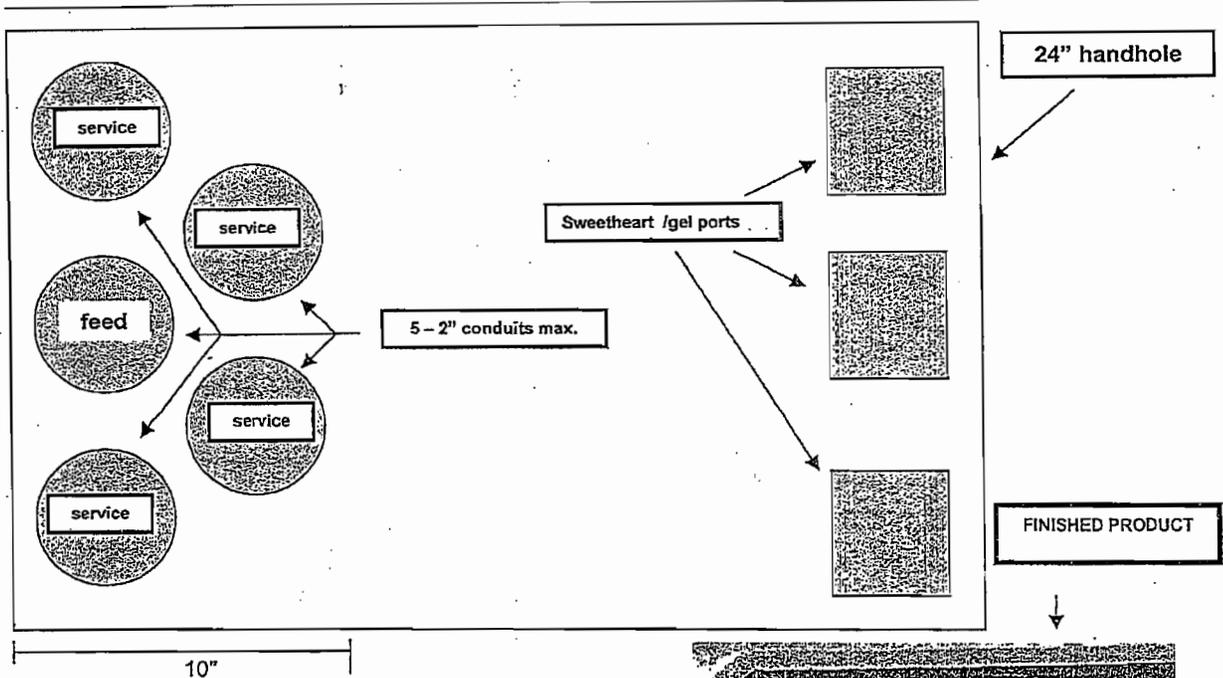
TESTING AND ACCEPTANCE GUIDELINES

Following notification of completed installation of underground conduits by a developer/contractor FPL will:

1. Randomly spot check the installation depth of conduits below grade at a minimum of 2 points between each primary termination point, (transformers, splice boxes & risers) noting the measured depth on the record drawing.
 2. After confirming the correct routing and integrity of a conduit run, verify that the cable markers were installed and exposed conduit ends are plugged.
 3. Confirm that a continuous length of pull string has been installed in all conduit runs and verify that all conduits runs terminate in the correct locations.
 4. The final acceptance of the conduit installation will occur when FPL pulls the conductor and occupies the conduit.
-

TEMPLATE

24"



WHEN INSTALLING 2" CONDUITS UP TO 5 MAY BE PLACED IN A 24" HANDHOLE. Please Install all conduits within 10" of one end of the handhole. This allows cables to drape across to the other end of handhole where the terminations will be placed such as sweetheart connectors or gel port connectors. When the wires are raised out of the handhole this will allow approximately 18" of wire above ground level making it easier for employees to work on in future situations.

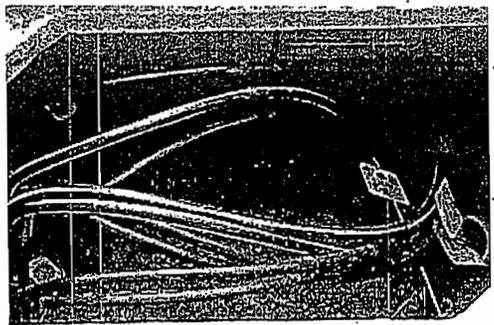
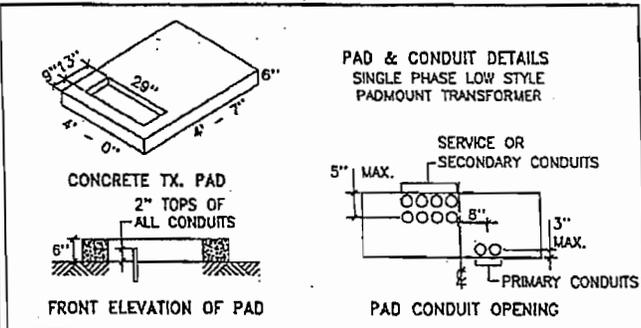
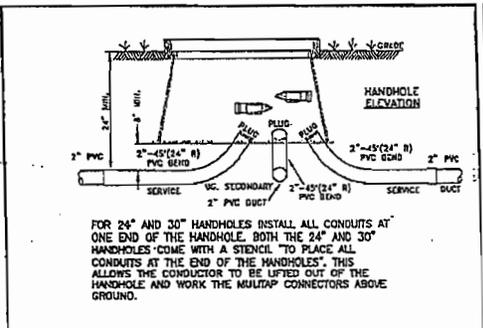
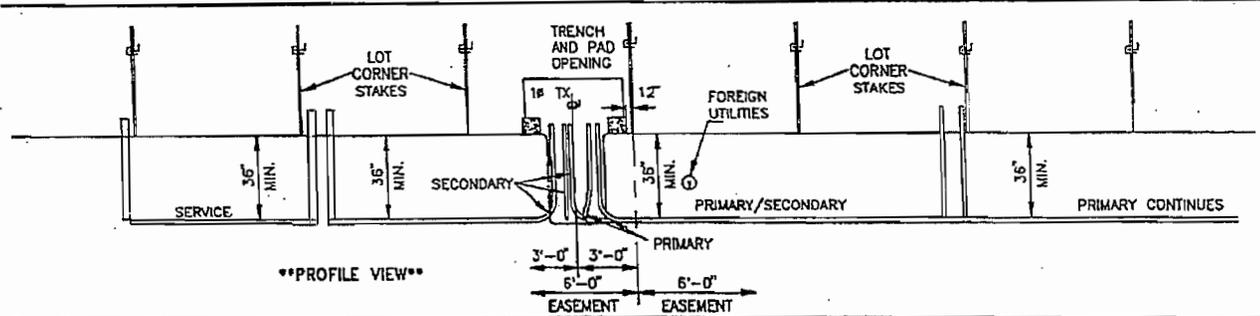
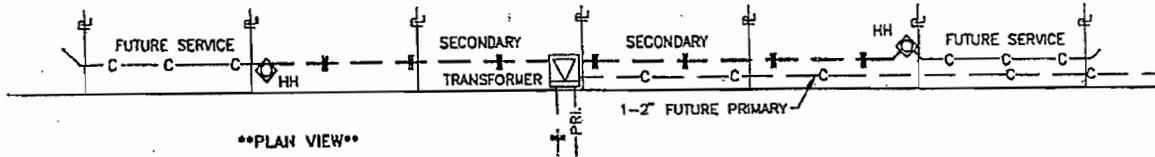


FIGURE 1



Note - Transformer location to be per specific design drawing, and may split lot lines in some cases.

FIGURE 2

TYPICAL SERVICE HANDHOLE INSTALLATION

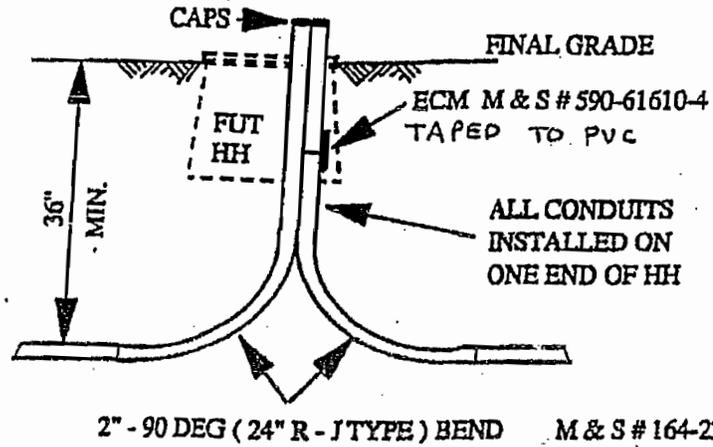


FIGURE 2A

48" PRIMARY SPLICE HANDHOLE

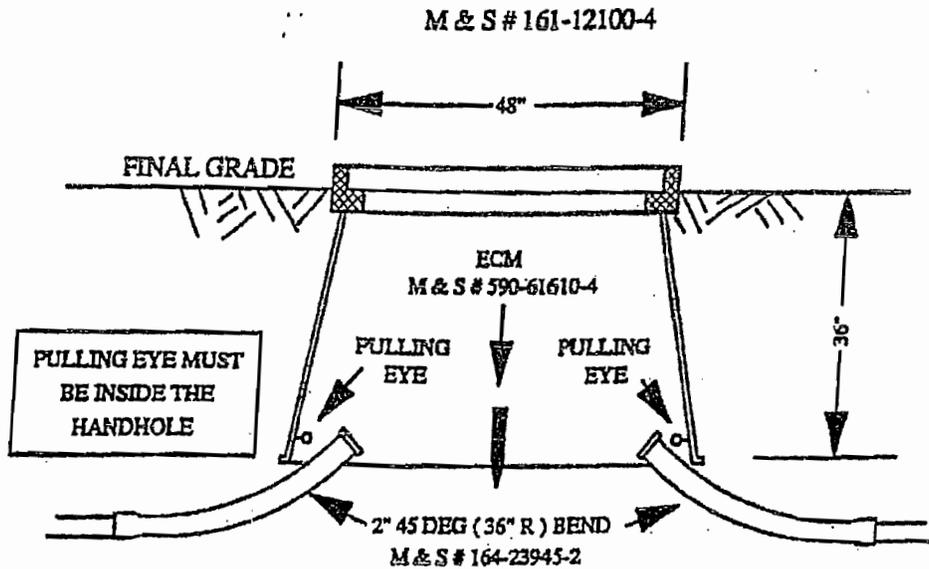
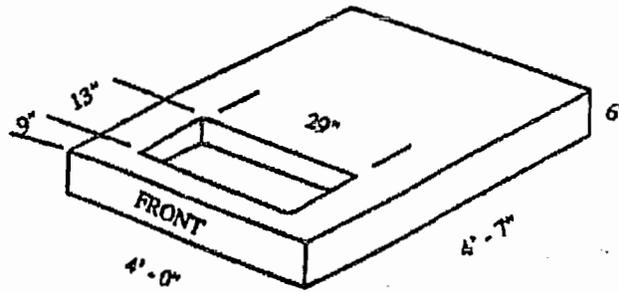


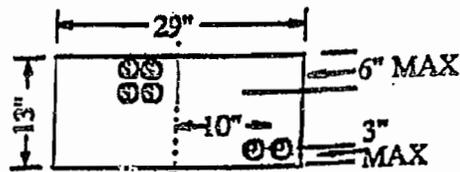
FIGURE 3

PAD & CONDUIT DETAILS

**SINGLE PHASE LOW STYLE
PADMOUNT TRANSFORMER**

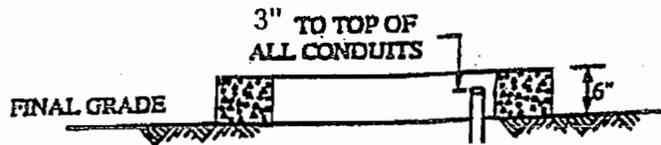


**CONCRETE TRANSFORMER PAD
M & S # 162-24800-4**



**S = SERVICE OR
SECONDARY
P = PRIMARY**

PAD CONDUIT OPENING



FRONT ELEVATION OF PAD

FIGURE 3A

ONE LOW STYLE & ONE REGULAR STYLE TRANSFORMER

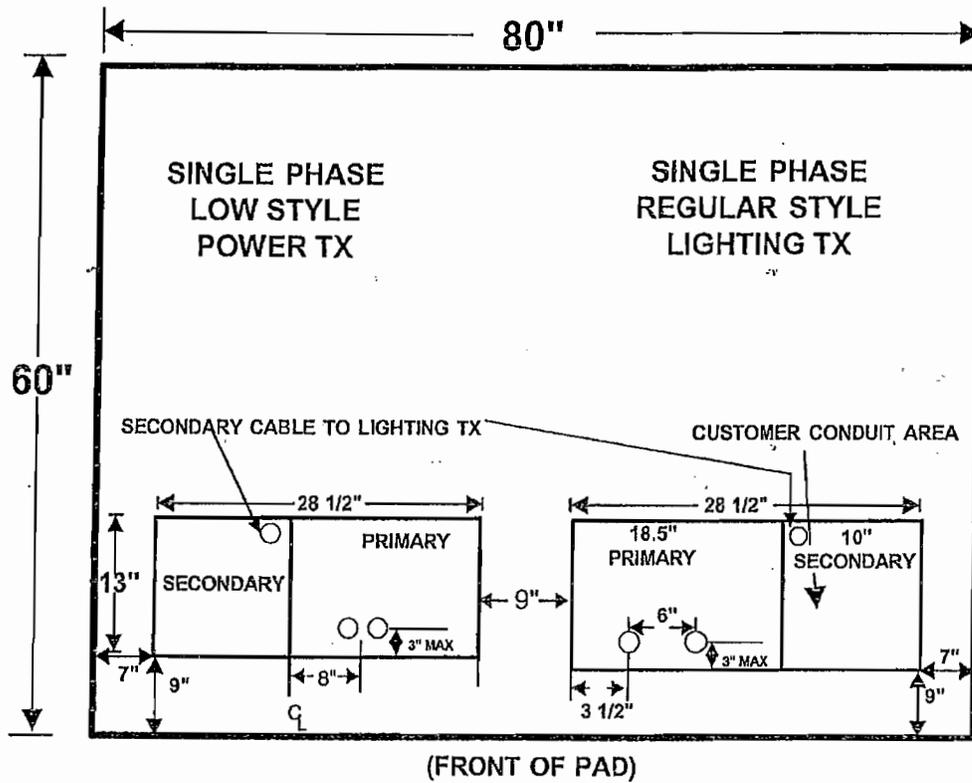
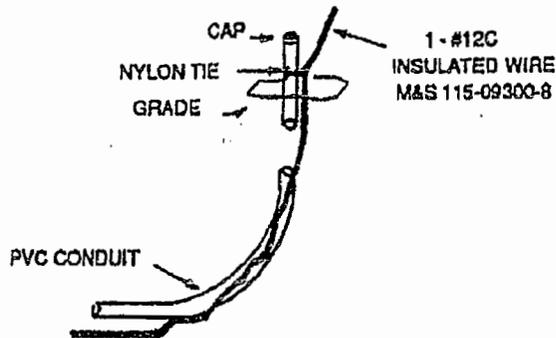


FIGURE 4

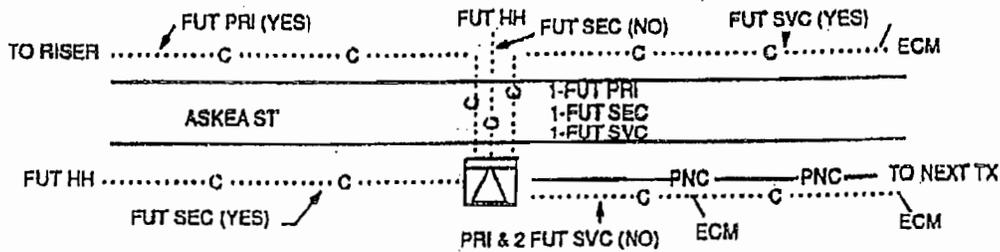
1 - #12C INSTALLATION

When installing conduit only (cable to be pulled later), a single #12 copper insulated wire is to be direct buried in every trench at the same depth as the conduits. The ends of the wire are to be terminated above ground at the conduit ends as shown. This wire will allow empty plastic conduits to be located with electronic equipment.

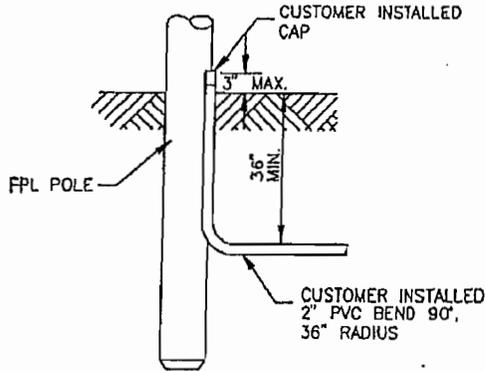
This method is not intended for cases where conduit is installed strictly for road crossings only. In these cases ECM markers should be used to mark the conduit ends.



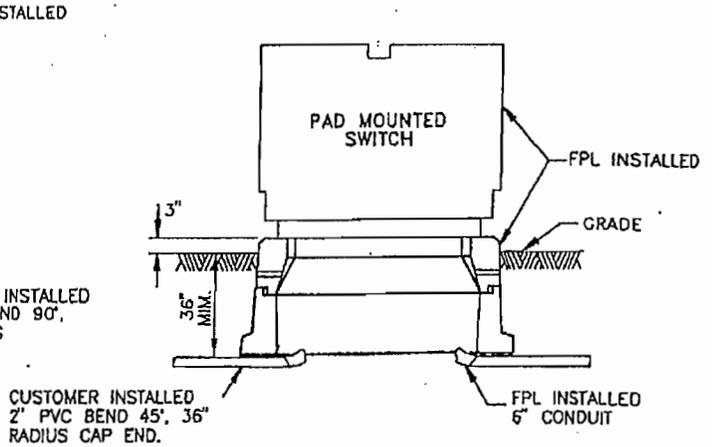
WHERE TO INSTALL #12C WIRE



DRAWING SYMBOLS



TYPICAL PVC CONDUIT BEND AT RISER POLE INSTALLATION



TYPICAL CONDUIT ENTRANCES TO PAD MOUNTED SWITCH

SYMBOLS

CONDUCTORS -- PRIMARY

FPL OWNED, IN CONDUIT, WITH CONDUCTOR SIZE, METAL, RATED VOLTAGE INSULATION AND NEUTRAL INDICATED.

EXISTING

---PNC---

PROPOSED

---PNC---

CONDUCTORS -- SECONDARY -- STREET LIGHT

FPL OWNED, IN CONDUIT, WITH CONDUCTOR SIZE, METAL AND INSULATION INDICATED (HM/HD TPX SHOWN).

1/OA

---||---

4/OA

---||---

SERVICE LATERALS

THREE-WIRE SECONDARY SERVICE. FPL OWNED IN CONDUIT WITH CONDUCTOR SIZE, METAL, INSULATION AND JACKET INDICATED.

3-2C RN

---||>

1/OA TPX

---||>

EMPTY CONDUIT

---C---

---C---

PADMOUNTED TRANSFORMERS

PADMOUNTED TRANSFORMER, 1 ϕ , WITH KVA RATING (FRONT, OR TERMINAL CHAMBER, IS SMALL RECTANGLE AT RIGHT END OF SYMBOL. PRIMARY PHASE INDICATED) TRANSFORMER STYLE SHOWN AS FOLLOWS: (RS) - REGULAR SIZE - 42" + HIGH, (DF) - DEAD FRONT - 32" + HIGH, (LS) - LOW STYLE - 24" + HIGH.

▶ B 15

▶ B 15

STRUCTURES

ELECTRONIC CABLE MARKER AND OR SPLICE PIT (BURIED)

⊙

⊙

SERVICE HANDHOLE

◇

◇

 F P L

APPENDIX A

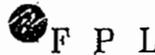
UN-27.0.0	RECOMMENDED PRACTICES FOR FIELD JOINING OF PVC CONDUIT (USING CLEAR SOLVENT CEMENT) AND PVC CONDUIT INSTALLATION	UN-27.0.0
-----------	--	-----------

FIELD JOINING

1. EXAMINE EACH LENGTH OF CONDUIT AND ENSURE THERE ARE NO INTERIOR OR EXTERIOR IMPERFECTIONS, CRACKS, ETC. REMOVE ALL FOREIGN MATERIAL FROM INSIDE CONDUIT.
2. USING A HACKSAW, FINE TOOTH WOOD SAW, OR NYLON STRING, CUT PIPE SQUARE (IF REQUIRED). REMOVE ANY BURRS AND BEVEL ANY SHARP EDGES. WIPE DRY WITH A CLEAN, DRY CLOTH.
3. APPLY CEMENT (M & S #522-14100-7) UNIFORMLY ON INSIDE OF BELL OR FITTING. APPLY UNIFORM COAT OF CEMENT ONTO CONDUIT END. DO NOT POUR, SPLASH, OR GLOB CEMENT ON!
4. IMMEDIATELY INSERT THE CONDUIT INTO THE BELL END OF FITTING ALL THE WAY TO THE INSIDE SHOULDER. ENSURE SNUG FIT AND TURN CONDUIT 1/4 TURN TO DISTRIBUTE CEMENT EVENLY.
5. HOLD JOINT FOR APPROXIMATELY ONE MINUTE TO ALLOW CEMENT TO BEGIN SETTING. WIPE OFF EXCESS CEMENT.
(NOTE: MANUFACTURER RECOMMENDATIONS ARE TO ALLOW FOR A MINIMUM OF 10 MINUTES OF DRYING TIME PRIOR TO ANY BACKFILLING. WEATHER CONDITIONS MAY VARY THIS SETTING TIME.)

FIELD INSTALLATION

1. LAY CONDUIT RUN INTO TRENCH. DO NOT KICK, THROW OR SLAM IT IN!
2. SURROUNDING TRENCH BACKFILL MUST BE FREE OF LARGE OR SHARP ROCKS, CINDERS OR OTHER DEBRIS WHICH WILL DAMAGE CONDUITS DURING BACKFILL OPERATION OR SUBSEQUENT COMPACTION.
3. IN CORAL ROCK AREAS, IT IS RECOMMENDED THAT HAND BACKFILLING FOR THE FIRST 3 TO 6 INCHES BE PERFORMED.
4. INSTALL PLUGS OR END BELLS ON ALL VACANT DUCTS, AS REQUIRED.
5. THE FINISHED CONDUIT RUN SHALL BE RODDED IN AN APPROVED MANNER (I.E. WINCH LINE, MANDREL, ETC.) TO VERIFY CONTINUITY AND CLEANLINESS. (NOTE: NO CONDUIT RUN SHALL BE ACCEPTED AS PROPERLY INSTALLED UNLESS FREE PASSAGE IS OBTAINED AND VERIFIED BY FPL SUPERVISION.)



OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: CM

DRAWN BY: BQ

DATE: 8-30-94

APPROVED: R. J. SALESKY
SUPERVISOR, OH/UG PRODUCT
SUPPORT SERVICES

NO SCALE

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.

APPENDIX B

UV-12.0.0

IDENTIFICATION OF UNDERGROUND CABLES AND VACANT CONDUITS

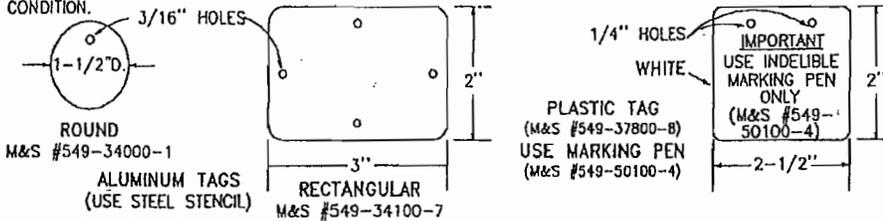
UV-12.0.0

GENERAL ALL UNDERGROUND CIRCUITS SHOULD BE IDENTIFIED WHERE APPLICABLE AS FOLLOWS:

- FEEDER NUMBER
- SWITCH NUMBER
- PHASE
- CONDUCTOR SIZE, METAL, TYPE INSULATION AND VOLTAGE RATE (IF NOT SAME AS OPERATING VOLTAGE)
- SOURCE OR DIRECTION OF FEED
- OWNERSHIP
- ADDRESS OF BUILDING SERVED
- TLM NUMBER
- DATE OF FAILURE ON SECTION OF CABLE (DIRECT BURIED ONLY)
- ANY UNUSUAL CONDITIONS, I.E. CABLE IN CONDUIT, PARTIALLY IN CONDUIT, DIRECT BURIED, ETC.

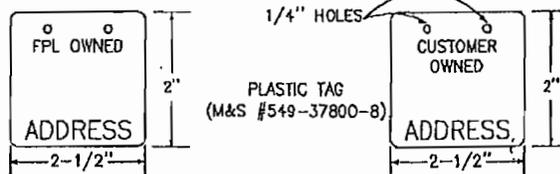
ALL CIRCUITS AND VACANT CONDUITS SHOULD BE APPROPRIATELY IDENTIFIED AT EACH TERMINAL OR SWITCHING POINT AND ALL INTERMEDIATE LOCATIONS SUCH AS VAULTS, MANHOLES, PAD MOUNTED TRANSFORMERS, OR HANDHOLES. WHEN THE CIRCUIT OR VACANT CONDUIT IS OWNED BY OTHER THAN FLORIDA POWER & LIGHT COMPANY, SHOW "CUST" ON APPROPRIATE TAG. IF NECESSARY INFORMATION CANNOT BE SHOWN ON ONE TAG, USE ADDITIONAL TAGS.

INFORMATION WILL BE PLACED ON APPROVED TAGS SHOWN BELOW IN THE MANNER DESCRIBED FOR THE PARTICULAR CONDITION.



SERVICE OWNERSHIP TAGS

PLACE INSIDE METER CAN. USE TIE WRAP TO ATTACH TAG TO CONDUCTORS. PRINT ADDRESS USING MARKING PEN (M&S #549-50100-4)



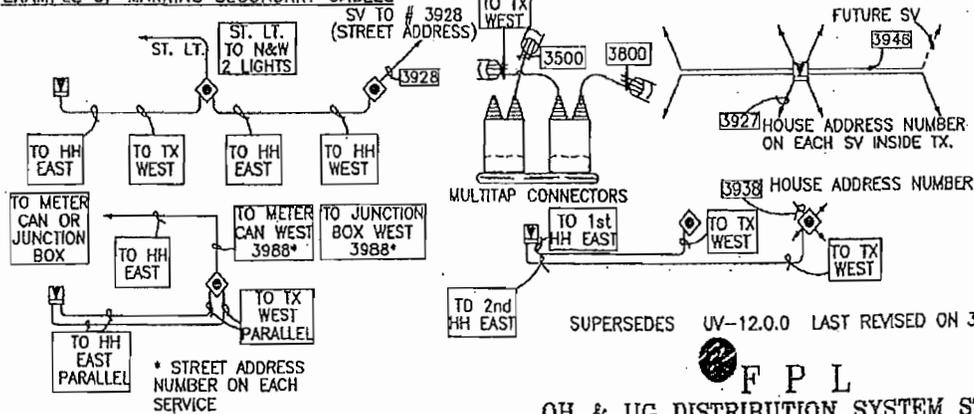
UNDERGROUND DUCT & MANHOLE SYSTEMS

USE ALUMINUM TAGS, AFFIXED TO CABLES WITH #12C-TW ON ALL CIRCUITS IN UNDERGROUND SYSTEMS, SUCH AS SUBWAY VAULTS, MANHOLES, RISER POLES, ETC. ROUND ALUMINUM TAGS ARE FOR FEEDER NUMBER AND PHASE IDENTIFICATION. RECTANGULAR ALUMINUM TAGS ARE USED FOR ALL OTHER IDENTIFICATION PURPOSES FOR EXAMPLE, ON ISOLATED NEUTRAL CONDUCTORS OF PILC CABLES, ETC.

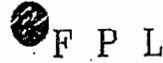
DIRECT BURIED AND CABLE IN CONDUIT SYSTEMS

USE ALUMINUM TAGS FOR CUSTOMER I.D. AS INDICATED ABOVE FOR LOCATIONS THAT WILL BE SUBJECTED TO SUNLIGHT. USE PLASTIC TAGS FOR URD CABLE TERMINATION TAGGING AND AT OTHER LOCATIONS SUCH AS PADMOUNTED TRANSFORMERS AND HANDHOLES. ALLOW 10 SECONDS MINIMUM DRYING TIME TO PREVENT SMEARING. FASTEN PLASTIC TAG TO CABLE WITH TY-RAP (M&S #534-25000-1).

EXAMPLE OF MARKING SECONDARY CABLES



SUPERSEDES UV-12.0.0 LAST REVISED ON 3-15-91



OH & UG DISTRIBUTION SYSTEM STANDARDS

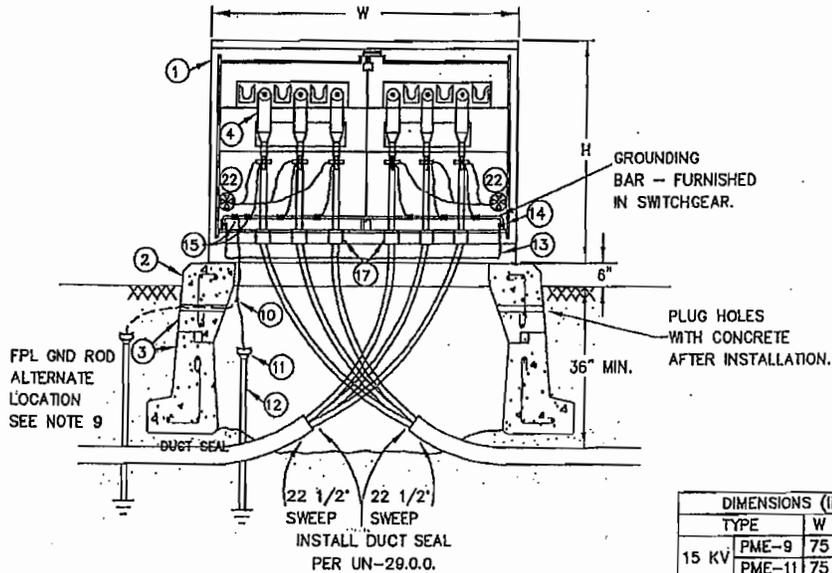
0	9-30-94	CHANGED PAGE FORMAT AND REVISED NOTES AND DIMENSIONS	RJO	MLG	RJS	DATE: 9-30-94	APPROVED: R.J. SALESKY SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES	NO SCALE
NO.	DATE	REVISION	ORIG.	DRAWN	APPR.			

ORIGINATOR: RJO DRAWN BY: MLG

C-32.0.2

TYPICAL INSTALLATION OF 15 OR 25 KV
S & C TYPE PME DEAD FRONT
THREE PHASE PAD MOUNTED SWITCHGEAR

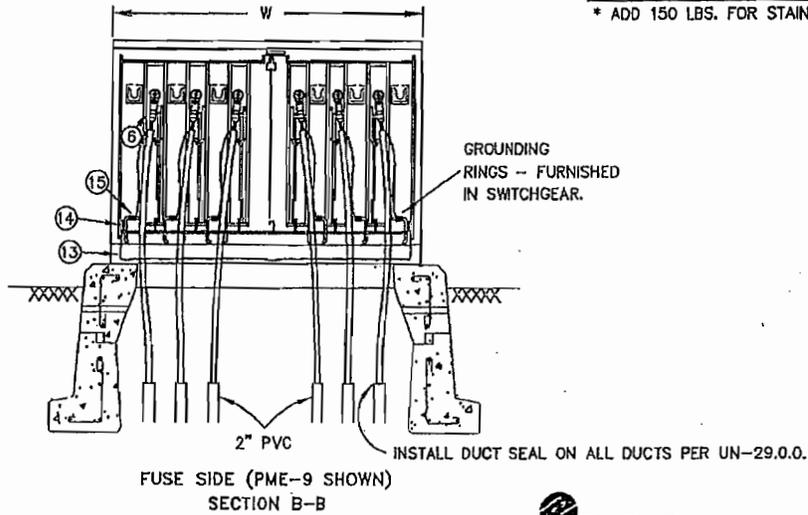
C-32.0.2



600 AMP FEEDER SIDE
SECTION A-A

DIMENSIONS (INCHES)				WEIGHT IN LBS.*	
TYPE	W	D	H		
15 KV	PME-9	75	67	50	2300
	PME-11	75	73	50	2350
	PME-10	75	73	50	2400
25 KV	PME-9	84	82	56	2900
	PME-11	84	88 1/2	56	2950
	PME-10	84	88 1/2	56	3000

* ADD 150 LBS. FOR STAINLESS STEEL.



FUSE SIDE (PME-9 SHOWN)
SECTION B-B



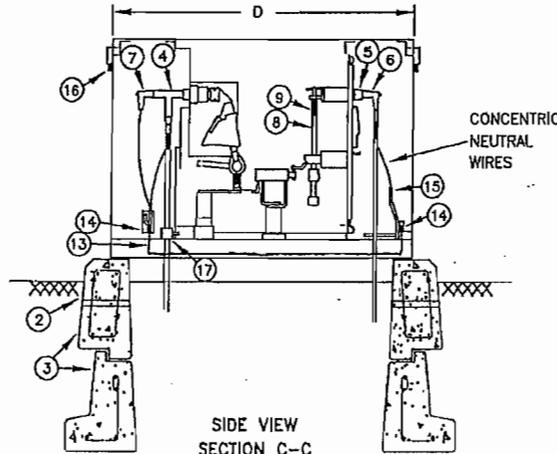
OH & UG DISTRIBUTION SYSTEM STANDARDS

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.	DATE	APPROVED	NO SCALE
2	7/21/01	UPDATE DRAWING ADDED PME-10 AND CHANGED SOME TEXT	RAP	JES	JJM	ORIGINATOR: RWS	DRAWN BY: JRG	
1	9/30/94	ADDED ARROW TO INCLUDE TOP CHAMBER SECTION ③	RJO	BAQ	RJS	DATE: 6/30/93	APPROVED: R.J. SALESKY	NO SCALE
							DIRECTOR, DISTRIBUTION ENGINEERING AND OPERATIONS SERVICES	

C-32.0.3

TYPICAL INSTALLATION OF 15 OR 25KV
S&C TYPE PME DEAD FRONT
THREE PHASE PAD MOUNTED SWITCHGEAR

C-32.0.3



NOTES:

1. WHEN CHANGING OUT A LIVE FRONT PAD MOUNTED SWITCH TO A DEAD FRONT PAD MOUNTED SWITCH, IT IS IMPORTANT TO ENSURE THAT THE REPLACEMENT DEAD FRONT SWITCH HAS THE SIX INCH ADAPTER BASE SPACER. THE NEW SWITCH MUST BE INSTALLED WITH THE SAME ORIENTATION AS THE OLD SWITCH IN ORDER TO ENSURE THAT THE ADAPTER BASE SPACER MATCHES THE NEW SWITCH CORRECTLY TO THE ORDER, SMALLER SIZED PAD. NOTE: IT IS NO LONGER REQUIRED TO CHANGE OUT THE TOP PAD PORTION OF THE CHAMBER. USE 600 AMP REPLACEMENT ELBOWS (M & S # 163-50256-7), AS SHOWN IN DCS UH-40.0.0, FOR THE FEEDER CABLES AND 200 AMP REPAIR ELBOWS (VARIOUS M & S NUMBERS), AS SHOWN IN UH-78.0.0 FOR THE LOOP SIDE PRIMARY CABLES.
2. CABLES MUST NOT BE IN CONTACT WITH THE EDGE OF CHAMBER FOOTING. TOP VIEW SHOWS CORRECT ROUTING FOR FEEDER CABLES THAT IS NECESSARY TO PROVIDE FOR CABLE MOVEMENT.
3. PRIMARY CABLES MUST BE ABLE TO REACH PARKING LOCATIONS.
4. ALLOW SUFFICIENT LENGTH OF CONCENTRIC NEUTRAL TO REACH GROUNDING BARS AND PERMIT FREE MOVEMENT OF ELBOWS.
5. BRASS STUDS FURNISHED WITH THE 600 AMP ELBOW KITS MUST BE INSTALLED AND TIGHTENED SECURELY (55 FT. LBS.) IN THE 600 AMP BUSHINGS. THE SHORT THREADED END OF THE STUD GOES INTO THE BUSHING. SEE UH-41.0.1 AND UH-41.0.2 FOR 600 AMP ELBOW DETAILS.
6. INSTALL 800 AMP 3Ø FAULT INDICATORS ON EACH SET OF FEEDER CABLES. SEE UV-14.0.0, UV-14.0.1, UV-14.0.2.
7. LOOP SIDE PRIMARY CABLES (#1/OA) MUST GO THRU CABLE GUIDES TO AVOID CONFLICT WITH FUSE DOOR WHEN IT IS ROTATED TO OPEN.
8. CABLE SPOOLS (2 1/2") SHOULD BE USED ON THE FEEDER CABLE TO CORRECTLY POSITION THE CABLES FOR EASIER INSTALLATION OF THE BOLT-ON ELBOW TERMINATORS ON TO THE 600 AMP BUSHINGS. THE 600 AMP ELBOWS MUST BE INSTALLED PERFECTLY STRAIGHT (VERTICALLY AND HORIZONTALLY) ONTO THE 600 AMP BUSHINGS TO PROPERLY ENGAGE THE THREADS. THE SPOOLS ARE TO BE BOLTED TO THE BOTTOM FLANGE OF THE SWITCH COMPARTMENT WALL WITH 3/8" X 1 1/2" BOLTS THRU EXISTING HOLES PROVIDED BY THE SWITCH MANUFACTURER.
9. MAKE CERTAIN OF CABLE LOCATIONS BEFORE DRIVING GROUND RODS. WHEN INSTALLING GROUND RODS IN ALTERNATE LOCATION, INSURE THAT BOTH THE TOP OF THE ROD AND THE #4C WIRE ARE AT LEAST 3" BELOW GRADE AND ARE COVERED. EXISTING 3/4" HOLES SHOULD BE USED IF AT LEAST 3" BELOW GRADE.
10. APPLY CAULKING COMPOUND TO SEAM BETWEEN PAD MOUNTED SWITCH AND PAD CHAMBER.
11. UNUSED FUSE POSITIONS MUST HAVE BUSHINGS & PROTECTIVE CAPS INSTALLED. UNUSED FEEDER POSITIONS MUST HAVE 600 AMP PROTECTIVE CAPS (M&S #163-64500-7).
12. AFTER THE PADMOUNTED SWITCH IS INSTALLED, THE LIFTING BRACKETS MUST BE REMOVED AND STORED INSIDE THE CABINET OR TURNED DOWN SO THAT THEY DO NOT PROTRUDE ABOVE THE TOP OF THE CABINET.
13. ENSURE THAT THE "CAUTION" LABEL (M&S #548-56010-4) IS INSTALLED ON EACH SIDE OF THE SWITCH HAVING ACCESS TO THE HIGH VOLTAGE SWITCH AND/OR THE HIGH VOLTAGE FUSE COMPARTMENTS PER DCS Z-35.0.0.
14. SEAL DUCTS PER UN-29.0.0.

SUPERSEDES C-32.0.3 LAST REVISED ON 9-30-94

F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.
3	8/20/02	UPDATE DWG. (NOTE 1)	CEA	JES	JJM
2	8/13/01	UPDATE DWG. (NOTES 10, 12, 13, & 14)	CEA	JES	JJM
1	8/09/96	ADDITION TO NOTE 11	PMG	RAS	JJM

ORIGINATOR: PMG

DRAWN BY: RAS

DATE: 9/30/94

APPROVED: J.J. MCEVOY

NO SCALE

SUPERVISOR, OH/UG PRODUCT
SUPPORT SERVICES

C-32.0.4

TYPICAL INSTALLATION OF 15 OR 25KV
S&C TYPE PME DEAD FRONT
THREE PHASE PAD MOUNTED SWITCHGEAR

C-32.0.4

MATERIAL LIST

ITEM	DESCRIPTION		QUANTITY	M&S NO.
1	15KV SWITCHGEAR	PME-9 (2-THREE PHASE FEEDER POSITIONS AND 6 FUSE POSITIONS)	1	STANDARD 270-67400-7 STAINLESS STEEL 270-67401-5
		PME-11 (3-THREE PHASE FEEDER POSITIONS AND 3 FUSE POSITIONS)	1	STANDARD 270-67900-9 STAINLESS STEEL 270-67901-7
		PME-10 (4-THREE PHASE FEEDER POSITIONS AND NO FUSE POSITIONS)	1	STANDARD 270-683-000 STAINLESS STEEL 270-683-050
	25KV SWITCHGEAR	PME-9 (2-THREE PHASE FEEDER POSITIONS AND 6 FUSE POSITIONS)	1	STANDARD 270-67200-4 STAINLESS STEEL 270-67201-2
		PME-11 (3-THREE PHASE FEEDER POSITIONS AND 3 FUSE POSITIONS)	1	STANDARD 270-68100-3 STAINLESS STEEL 270-68101-1
		PME-10 (4-THREE PHASE FEEDER POSITIONS AND NO FUSE POSITIONS)	1	STANDARD 270-684-000 STAINLESS STEEL 270-684-050
2	PAD (TOP SECTON ONLY) FOR REPLACING LF WITH DF FOR 15KV FOR 25KV		1	162-12203-5 162-12205-1
3	PAD & CABLE CHAMBER (TOP & BOTTOM SECT.) FOR 15KV FOR 25KV		1	162-12201-9 162-12202-7
4	DEAD FRONT TERMINATOR, 1000 KCML AL 15KV 25KV		VARIES	163-63900-7
5	LOADBREAK BUSHING, 200 AMP 15KV 25KV		VARIES	163-86100-1 163-86400-1
6	ELBOW TERMINATOR, 1/0 AL 15KV 25KV		VARIES	163-58700-7 163-50200-1
7	PROTECTIVE CAP 200 AMP (15KV SWITCHES ONLY)		VARIES	163-02200-0
7	ELBOW SURGE ARRESTER (25KV SWITCHES ONLY)		VARIES	334-01500-5
8	SME-4Z FUSE HOLDERS 15KV 25KV		VARIES	531-56150-1 531-56310-5
9	15KV 25KV	FUSES: REFILL UNITS FOR SME-4Z, SM-4Z&SML-4Z FUSE HOLDERS		NOTE: THE FUSE REFILLS ARE THE SAME AS THOSE USED IN LIVEFRONT SWITCHES
		20 AMP 531-38700-5	10 AMP 531-32700-2	
		30 AMP 531-38800-1	15 AMP 531-32800-9	
		50 AMP 531-38900-8	20 AMP 531-32900-5	
		65 AMP 531-39500-8	30 AMP 531-33000-3	
		80 AMP 531-39501-6	40 AMP 531-33100-0	
		100 AMP 531-39600-4	50 AMP 531-33200-6	
		125 AMP 531-39800-7	65 AMP 531-33300-2	
		150 AMP 531-40200-4	80 AMP 531-33400-9	
		175 AMP 531-40300-1	100 AMP 531-33500-5	
		200 AMP 531-39000-6	125 AMP 531-33700-8	
			150 AMP 531-33800-4	
			175 AMP 531-33900-1	
			200 AMP 531-34000-9	
10	WIRE #4C SDB		6	112-30900-0
11	CONNECTOR, GROUND ROD, CLAMP TYPE		1	120-03610-6
12	COPPERWELD GROUND RODS AS REQUIRED GROUND ROD COUPLINGS		VARIES	130-61400-5 130-40510-4
13	#4/0C CABLE, 600V		27	110-10106-1
14	CONNECTOR #4/0 COPPER CABLE TO FLAT		6	120-87100-5
15	CONNECTOR, COPPER TO COPPER, BOLTED		PME-9 19 PME-11 22 PME-10 25	102-80000-2
	LOCK STANDARD PADLOCK, SMALL		PME-9 4 PME-11 5 PME-10 6	546-24601-1
	CABLE SPOOL, 2 1/2"		PME-9 8 PME-11 9 PME-10 12	160-30600-7
18	BOLT, 3/8" X 1 1/2" (FOR SPOOLS)		SAME AS SPOOLS	161-47900-2
19	NUT, 3/8" (FOR SPOOLS)		SAME AS SPOOLS	161-45000-4
20	WASHER FLAT 3/8" (FOR SPOOLS)		SAME AS SPOOLS	145-35900-6
21	LOCKWASHER, 3/8" (FOR SPOOLS)		SAME AS SPOOLS	161-52400-8
22	FAULT INDICATOR, 800 AMP, 3 PHASE		PME-9 2 PME-11 3 PME-10 4	163-29700-9

REPLACEMENT PARTS FOR SWITCHES
600 AMP BUSHINGS 15KV 274-00200-3
25KV 274-00300-0
200 AMP BUSHING WELLS 15KV 274-00220-8
25KV 274-00320-4

SUPERSEDE C-32.0.4 LAST REVISED ON 9-30-94

F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

2	06/06/01	ADDED PME-10 SWITCH	CEA	JES	JJM	ORIGINATOR: PMG	DRAWN BY: RAS
1	8/09/96	ADDITION TO ITEM 12	PMG	RAS	JJM	DATE: 9/30/94	APPROVED: J.J. MCEVOY
NO.	DATE	REVISION	ORIG.	DRAWN	APPR.	SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES	

NO SCALE

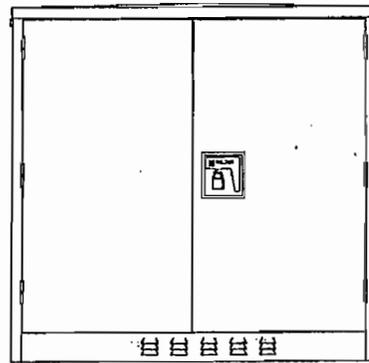
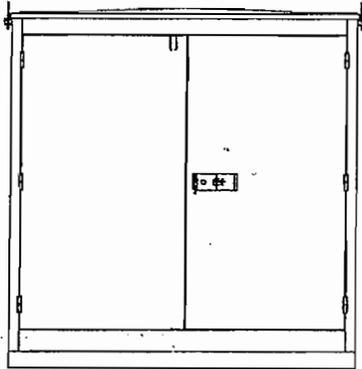
J-4.0.2

TYPICAL INSTALLATION OF 25 KV
S & C DEAD FRONT SWITCHGEAR AND
THREE PHASE PAD-MOUNTED CAPACITOR BANK

J-4.0.2

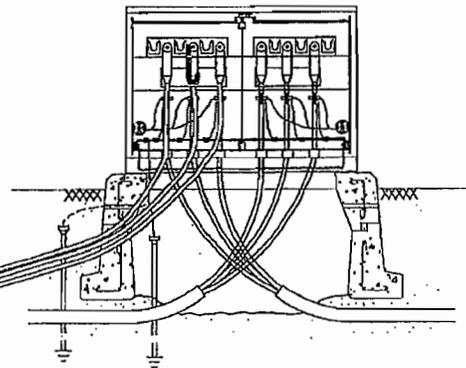
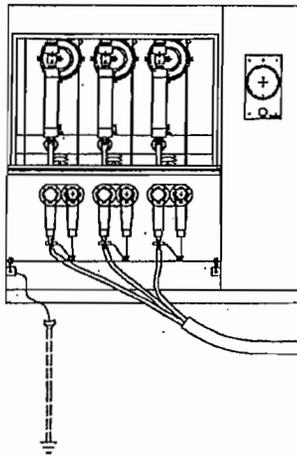
NOTES:

1. INSTALL 92' X 92' PRECAST PAD (M & S 162-25100-5)
2. DRIVE GROUND RODS & ATTACH #2 CU GROUND TO GROUNDING LUGS.
3. INSTALL URD CAPACITOR BANK (M & S 223-38900-1) ON PAD.
4. INSTALL ROTATABLE FEED-THRU BUSHING 25KV (M & S 163-25000-2) ON EACH BUSHING.
5. INSTALL 200 AMP ELBOWS ON ROTATABLE FEED-THRU BUSHINGS.
6. INSTALL 18KV ELBOW ARRESTERS (M & S 334-01500-5) ON ROTATABLE FEED-THRU BUSHINGS.



CAPACITOR CABINET

SWITCH CABINET



3#1/0 AL XPE 25KV CABLES
IN 1-4" CONDUIT
MAXIMUM OF 100 FEET



OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: LJV

DRAWN BY: J. SHOUP

DATE: 07/26/01

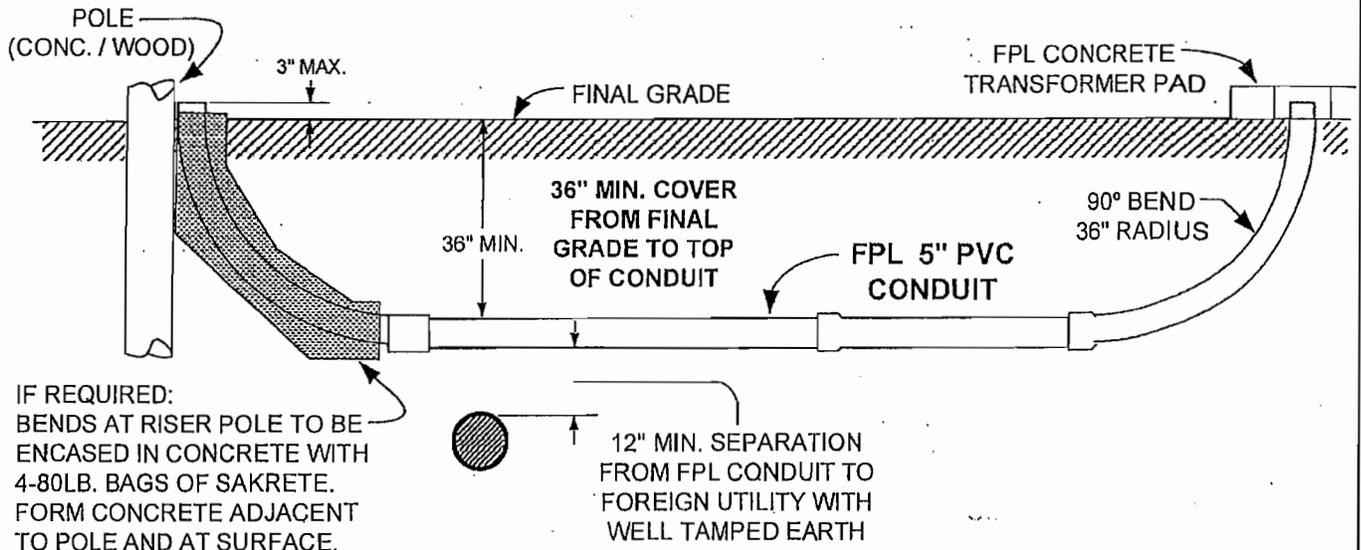
APPROVED: J.J. MCEVOY
SUPERVISOR, OH/UG PRODUCT
SUPPORT SERVICES

NO SCALE

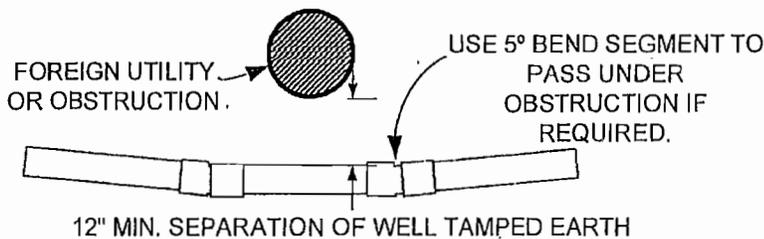
NO.	DATE	REVISION	ORIG. DRAWN	APPR.

****** NOTICE******

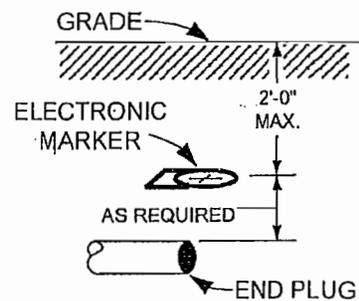
- CALL SUNSHINE 1-800-432-4770 48HOURS BEFORE YOU DIG FOR UNDERGROUND LOCATIONS.
- NOTIFY FPL REP. FOR INSPECTION OF TRENCH DEPTH & PVC INSTALLATION PRIOR TO BACKFILLING TRENCH.



IF REQUIRED:
BENDS AT RISER POLE TO BE ENCASED IN CONCRETE WITH 4-80LB. BAGS OF SAKRETE. FORM CONCRETE ADJACENT TO POLE AND AT SURFACE.



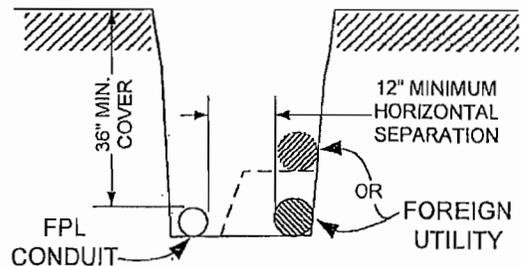
FPL CONDUIT CROSSING UNDER A FOREIGN UTILITY



DUCT END MARKING (IF REQUIRED)

NOTES:

- ♦ BACK-FILL WITHIN 4" OF THE CONDUIT TO BE FREE OF MATERIAL THAT MAY DAMAGE CONDUIT SYSTEM (BOARDS, ROCKS LARGER THAN 1" IN DIAMETER, DEBRIS, ETC.)
- ♦ IF COMPACTION OF TRENCH ROUTE IS REQUIRED FOR PAVING, ETC. BEGIN MACHINE COMPACTION 6" MINIMUM ABOVE CONDUIT.
- ♦ WHERE 36" OF COVER CANNOT BE MAINTAINED, 30" OF COVER WILL BE ALLOWED WITH 3" OF CONCRETE ENCASEMENT AROUND THE CONDUIT. (N.E.S.C. RULE FOR PRIMARY VOLTAGES)
- ♦ INSTALL A CONTINUOUS LENGTH OF PULL STRING IN ALL CONDUIT RUNS.



INSTALLATION OF FPL CONDUIT PARALLEL WITH - OR - IN A SHARED TRENCH WITH A FOREIGN UTILITY.

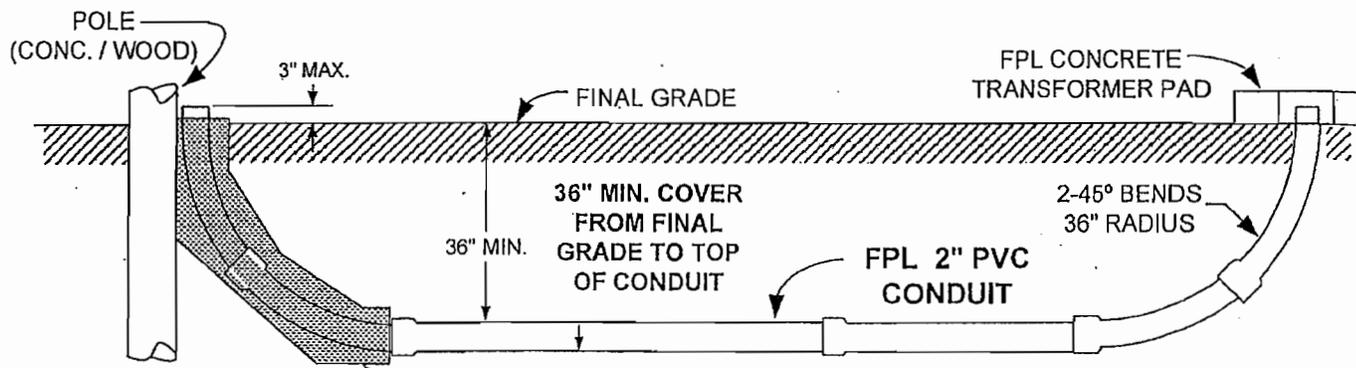
MATERIAL LIST 5" PVC SCH 40 CONDUIT

20' LENGTH (BELLED END)	164-33800-1
90° BEND 36" RADIUS	164-25250-5
90° BEND 48" RADIUS	164-25200-9
45° BEND 48" RADIUS	164-61400-8
5° BEND SEGMENT	164-56100-1
22.5° SWEEP 12'-6" RADIUS	164-13000-1
STRAIGHT COUPLING	164-44900-7
REPAIR SLEEVE 6' LONG	164-47530-0
END PLUG	164-53500-1
ELECTRONIC MARKER	590-61601-5

**FPL SUPPLIED 5" PVC CONDUIT
TYPICAL CUSTOMER INSTALLATION DETAILS
(PORTIONS OF UN-6, UN-15, CONC. & PAD DETAILS)**

****** NOTICE******

- CALL SUNSHINE 1-800-432-4770 48HOURS BEFORE YOU DIG FOR UNDERGROUND LOCATIONS.
- NOTIFY FPL REP. FOR INSPECTION OF TRENCH DEPTH & PVC INSTALLATION PRIOR TO BACKFILLING TRENCH.



IF REQUIRED:
BENDS AT RISER POLE TO BE ENCASED IN CONCRETE WITH 4-80LB. BAGS OF SAKRETE. FORM CONCRETE ADJACENT TO POLE AND AT SURFACE.

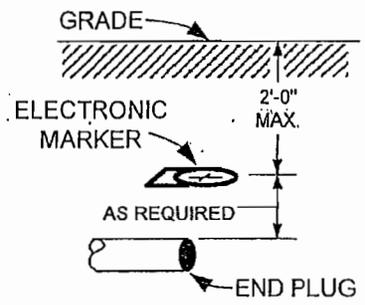
12" MIN. SEPARATION FROM FPL CONDUIT TO FOREIGN UTILITY WITH WELL TAMPED EARTH

FOREIGN UTILITY OR OBSTRUCTION

FLEX PIPE TO PASS UNDER OBSTRUCTION IF REQUIRED.

12" MIN. SEPARATION OF WELL TAMPED EARTH

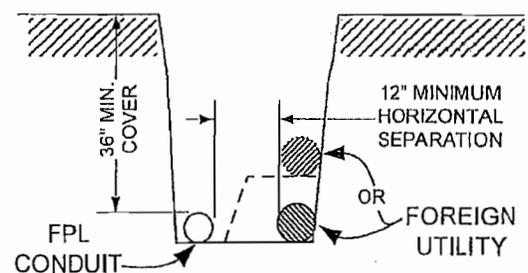
FPL CONDUIT CROSSING UNDER A FOREIGN UTILITY



DUCT END MARKING (IF REQUIRED)

NOTES:

- ♦ BACK-FILL WITHIN 4" OF THE CONDUIT TO BE FREE OF MATERIAL THAT MAY DAMAGE CONDUIT SYSTEM (BOARDS, ROCKS LARGER THAN 1" IN DIAMETER, DEBRIS, ETC.)
- ♦ IF COMPACTION OF TRENCH ROUTE IS REQUIRED FOR PAVING, ETC. BEGIN MACHINE COMPACTION 6" MINIMUM ABOVE CONDUIT.
- ♦ WHERE 36" OF COVER CANNOT BE MAINTAINED, 30" OF COVER WILL BE ALLOWED WITH 3" OF CONCRETE ENCASEMENT AROUND THE CONDUIT. (N.E.S.C. RULE FOR PRIMARY VOLTAGES)
- ♦ INSTALL A CONTINUOUS LENGTH OF PULL STRING. IN ALL CONDUIT RUNS.



INSTALLATION OF FPL CONDUIT PARALLEL WITH - OR - IN A SHARED TRENCH WITH A FOREIGN UTILITY.

MATERIAL LIST 2" PVC SCH 40 CONDUIT

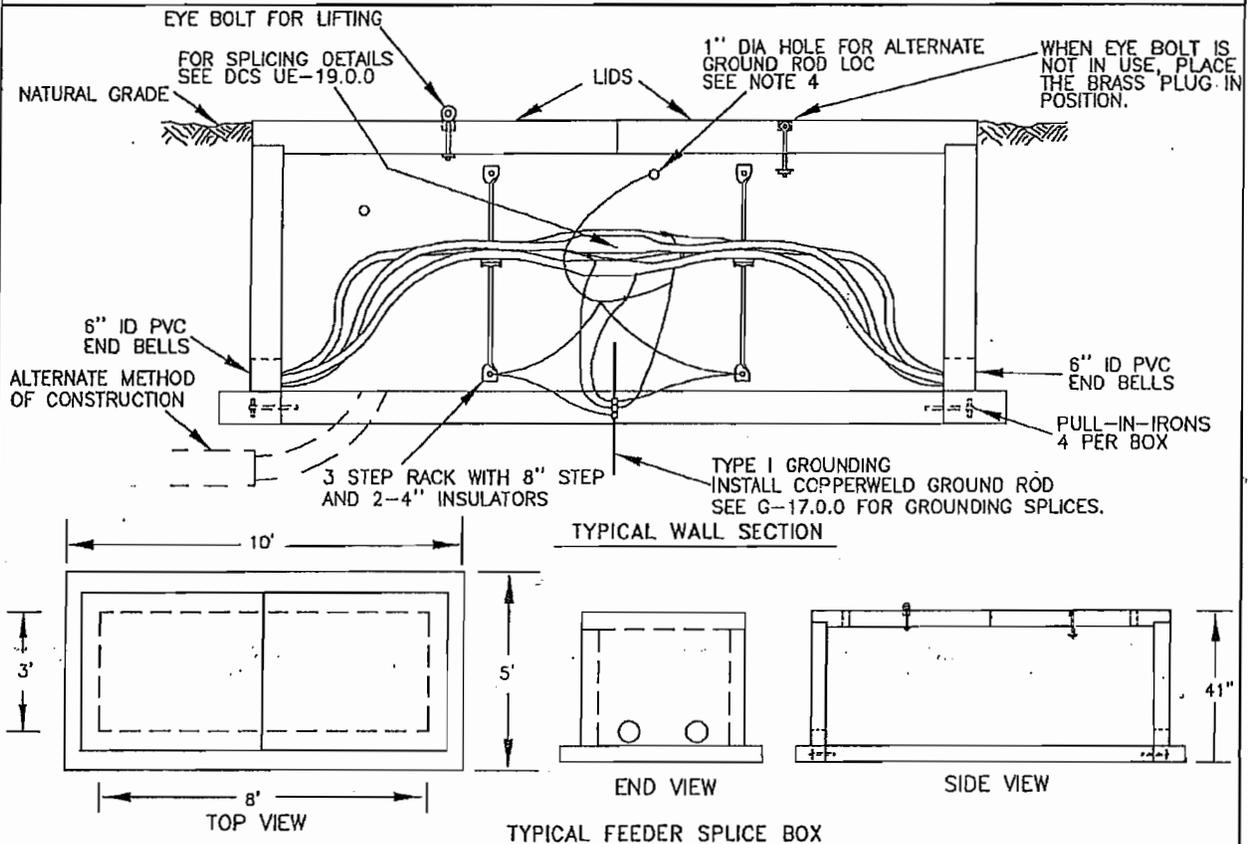
20' LENGTH (BELLED END)	164-33100-6
90° BEND 24" RADIUS	164-23800-6
45° BEND 36" RADIUS	164-23945-2
45° BEND 24" RADIUS	164-23900-2
STRAIGHT COUPLING	164-47000-6
REPAIR SLEEVE 4" LONG	164-47520-2
END PLUG	164-54800-5
ELECTRONIC MARKER	590-61601-5

FPL SUPPLIED 2" PVC CONDUIT
TYPICAL CUSTOMER INSTALLATION DETAILS
 (PORTIONS OF UN-6, UN-15, CONC.& PAD DETAILS)

UN-18.0.0

FEEDER SPLICE BOX

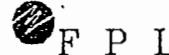
UN-18.0.0



M&S NUMBER	DESCRIPTION
162-240-003	CONCRETE FEEDER SPLICE BOX & LIDS.
162-241-000	CONCRETE FEEDER SPLICE BOX & LIDS COMES WITH SPECIAL BRUSHED SIDEWALK FINISH LIDS AND FLUSH INSERTS SUITABLE FOR PEDESTRIAN TRAFFIC.
162-242-203	POLYMER CONCRETE FEEDER SPLICE BOX. TO BE INSTALLED ONLY IN NON ACCESSIBLE AREAS, NOT TO BE SUBJECTED TO ANY VEHICULAR TRAFFIC SUCH AS STREETS, PARKING LOTS OR DRIVEWAYS.

NOTES:

1. LEAVE SUFFICIENT EXPOSED GROUND ROD TO INSTALL 6 EACH #4/0-#2 CONNECTORS M&S #120-118-005.
2. GROUND ALL SPLICES PER DISTRIBUTION STANDARD G-17.0.0.
3. GROUND CABLE RACKS.
4. EACH SPLICE BOX IS SUPPLIED WITH 2-1" DIA HOLE FOR ALTERNATE GROUND ROD LOCATION. MAKE ALL GROUNDING CONNECTIONS INSIDE THE BOX. RUN SUFFICIENT AMOUNT OF 4/0 TO MAKE CONNECTION TO ALT. GROUND ROD LOCATION. RESEAL 1" DIA HOLE WITH AQUASEAL.
5. DISTRIBUTION SPLICE BOX AND LIDS ARE DESIGNED FOR H-20 VEHICLE LOADING. (FULL TRAFFIC LOADING)
6. WEIGHT OF SPLICE BOX (W/O LIDS) = 6700 LBS. DIMENSIONS ARE 10' X 5' X 41" DEEP
7. WEIGHT OF EACH LID=1400 LBS. TWO LIDS REQUIRED. M & S # FOR LID ONLY 162-240-011.
8. URD FEEDER CABLE SPLICES MUST BE BONDED TO DRIVEN GROUNDS.
9. REFER TO UE-19.1.1 & UE-19.1.2 FOR SPLICE ASSEMBLY. A WATER TIGHT SEAL MUST BE MADE WHERE INSULATED
10. CONDUCTORS CONNECT TO SYSTEM NEUTRAL. SEE G-17.0.0
11. THE MAXIMUM PERMISSIBLE IMPEDENCE TO SYSTEM NEUTRAL FOR A DRIVEN GROUND IS 25 OHMS.
12. AS SHOWN ABOVE, THE PVC MAY ENTER UNDERNEATH THE SPLICE BOX BY USING A 45 DEGREE SWEEP. SEAL CONDUIT WITH DUCT SEAL.
13. IN AREAS SUBJECT TO WATER INTRUSION, INSTALL A SUFFICIENT AMOUNT OF PEAROCK 1/4"-3/4" SIZE ROCK TO ALLOW FOR THE PERCOLATION OF THE WATER.
14. IF FEEDER SPLICE BOX IS TO BE INSTALLED IN A SIDEWALK. A SEPERATION WILL BE NEEDED BETWEEN THE CONCRETE AND THE LIDS.
15. REFER TO UX-233.0.1



OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: RAP

DRAWN BY: J. SHOUP

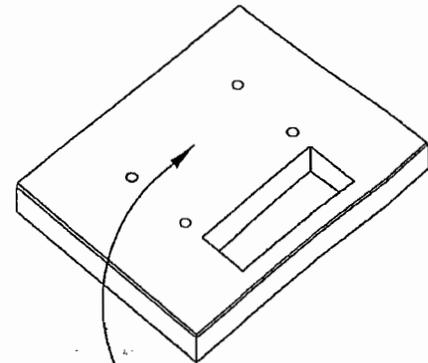
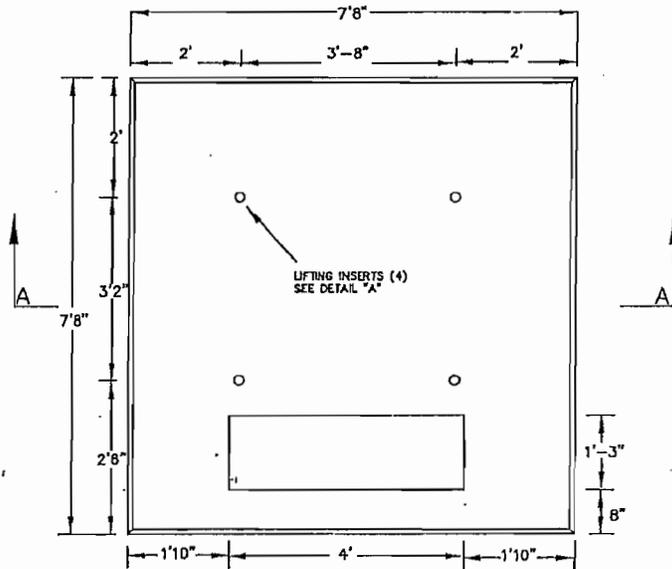
0	8/16/05	ORIGINAL DRAWING	RJO	ELS	JJM	DATE: 8/27/99	APPROVED: J. McEVOY	NO SCALE
NO.	DATE	REVISION	ORIG.	DRAWN	APPR.	SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES		

UN

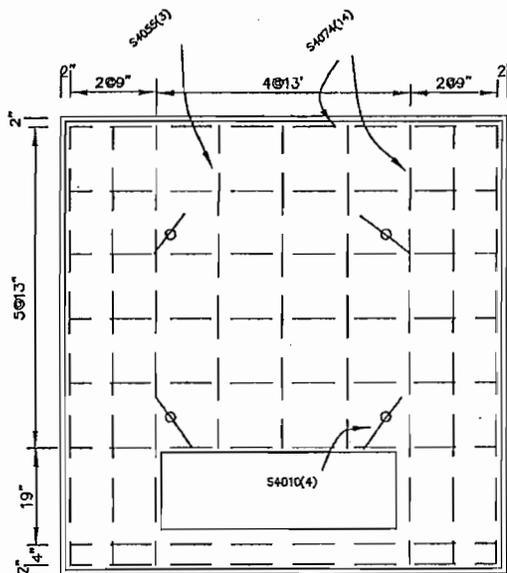
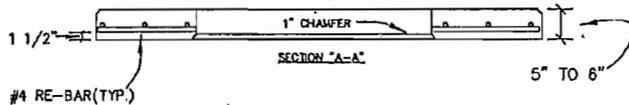
UX-108

CONCRETE_FOUNDATION
URD_CAPACITOR_BANK

UX-108



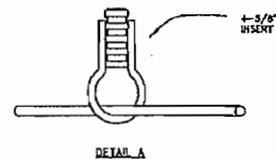
MANUFACTURERS IDENTIFICATION,
YEAR OF MANUFACTURE & FPL
M & S NO. 162-25100-5



- NOTES:
1. TOP SURFACE SHALL BE A SMOOTH PLANE. THE MAX. ALLOWABLE VARIATION IN HEIGHT BETWEEN ANY TWO POINTS ON THIS SURFACE IS 0.125".
 2. 5000 PSI TEST CONCRETE.
 3. MANUFACTURERS IDENTIFICATION, YEAR OF MANUFACTURE & FPL CO. M&S NO. 162-25100-5 TO BE CAST IN TOP SURFACE OF PAD NEAR CENTER (REQUIRED WHEN PRECAST).
 4. SUPERIOR THREADED INSERT, 5/8" WITH PLUG, ELECTRO-GALVANIZED, 4 REQUIRED.
 5. REINFORCING RODS TO BE WELDED AT ALL INTERSECTIONS

WEIGHT 3230 LB
CU. FT. 26.9
CU. YDS. 1.0
MAX LOAD 2000 LB

REINFORCED STEEL
S4074 14X7'-4"
S4055 3X5'-5"
S4010 4X1'-0"



F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR:BOB BENN

DRAWN BY:D.OKONEWSKI

DATE:12/29/97

APPROVED: J.J. MCEVOY

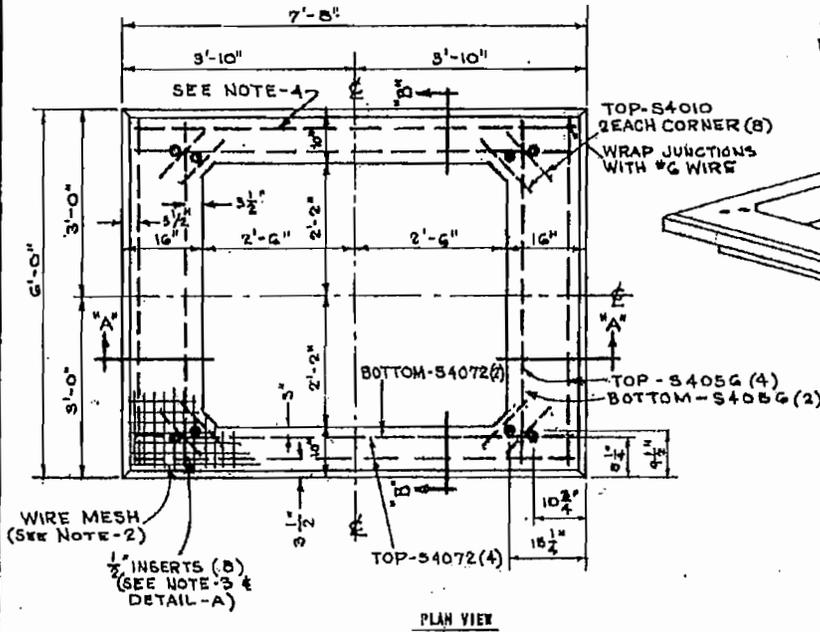
NO SCALE

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.

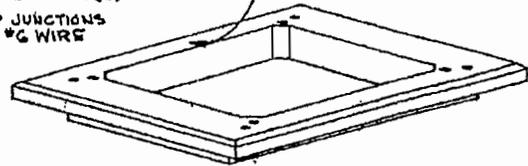
SUPERVISOR, OH/UG PRODUCT
SUPPORT SERVICES

UX-113

CONCRETE FOUNDATION FOR
S&C 30 PADMOUNTED SWITCH

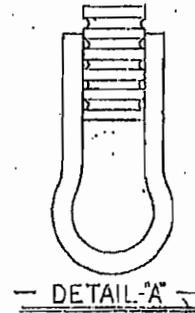
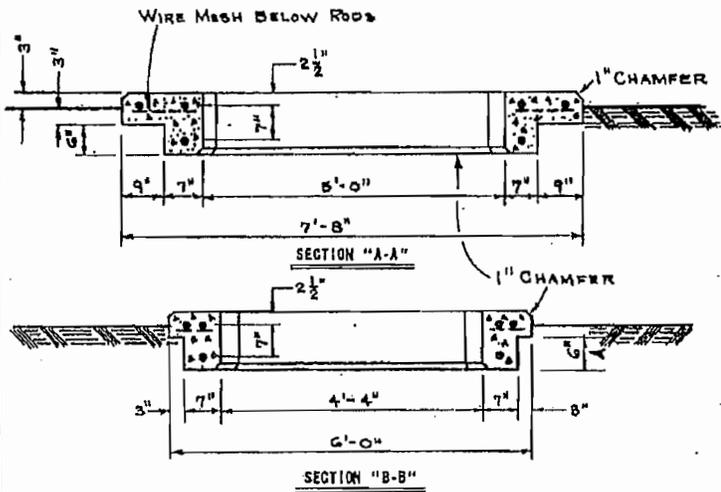


DATE, MFG. NAME,
F.P.L. M & S No. 162-214



WEIGHT - 2745 LB.
CU. FT. - 18.3
CU. YD. - 0.68
1245 - KILOGRAMS
519 - LITERS
0.519 - CU. METERS

PLAN VIEW

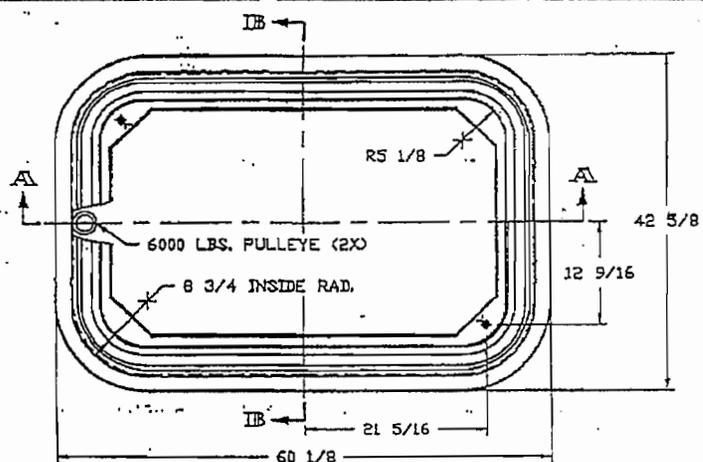


1. Top surface to be smooth and level. Surface irregularities are not acceptable.
2. 4 x 4 No. 4 Welded Wire Mesh Reinforcing to stop 2" from Sides and Opening of Foundation.
3. Superior Threaded Inserts, 1/2" with Plug, Electro-Galv., 4 Required. (See Detail A)
4. #4 Reinforcing Rod as shown.
5. 4000 Lb. Test Concrete.
6. For use with S & C Switches, M & S Nos. 270-853, 270-854, 270-855 & 270-880.
7. Manufacturer's Identification, Year of Manufacture, and FPL Co. M & S Number to be cast in top surface of pad near center of pad. (This required when precast.)

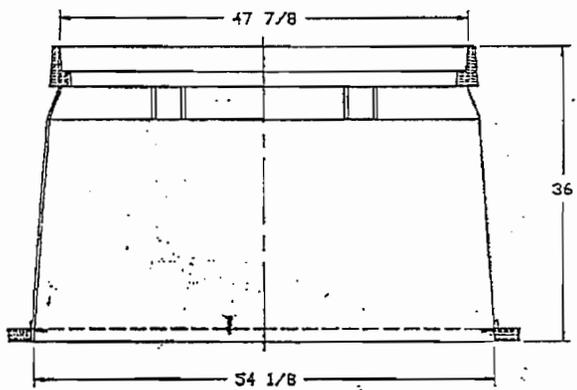
STANDARDS
UNDERGROUND DISTRIBUTION SYSTEM
FLORIDA POWER & LIGHT COMPANY
DATE 12-28-71 NO SCALE

APPROVED: *[Signature]*
CHIEF ENGINEER

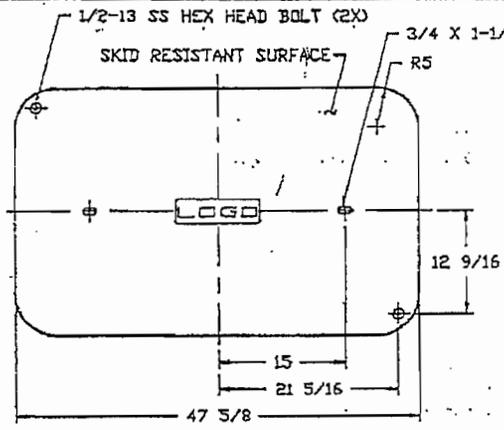
DRAWN	12-28-71	CORRECTED DIMENSION	BY	CH	COR	APP
CHECKED						
DATE						
NO.						



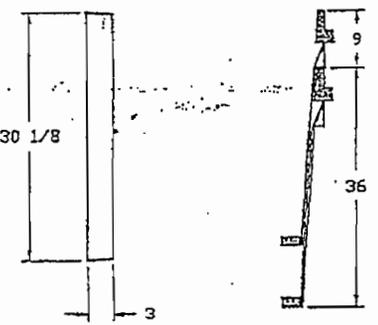
PLAN VIEW - BOX



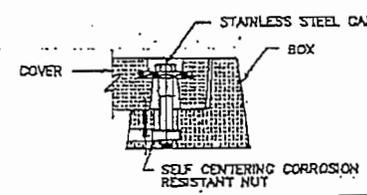
SECTION A-A



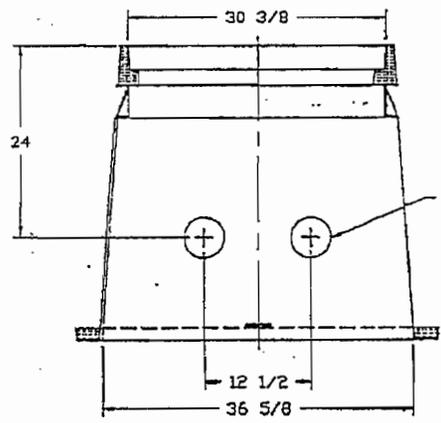
COVER



STACKING DETAIL



COVER BOLTDOWN



SECTION I-B-I-B

COMPONENT		
BOX	_B20-3048-36W	
COVER	_C20-3048-03W	
TOLERANCES		
DIM. IN.	+	-
0 TO 12	1/16	1/16
12 TO 48	0	1/8

- NOTES
1. MATERIAL: GRPC & FRP
 2. COLOR: CONCRETE GREY
 3. LOAD RATING (ASTM C857) AS

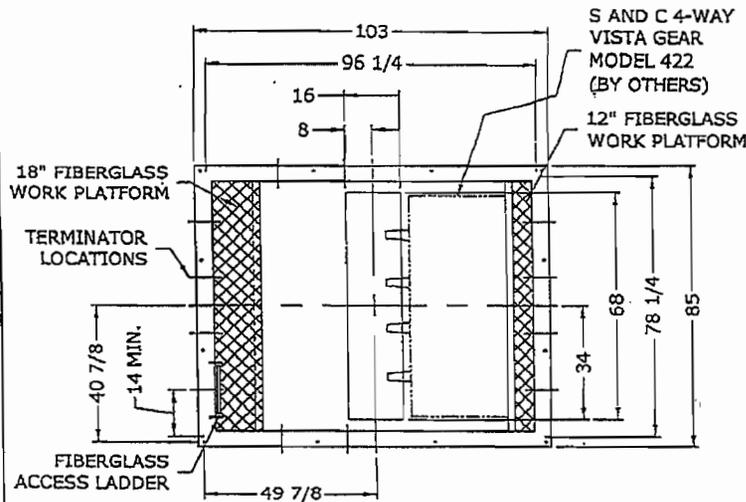
NOTICE This drawing is the property of CDR Systems and is loaned only upon the condition that it is not to be copied or reproduced nor to be used for supplying information to others or for any other purpose detrimental to the interests of CDR Systems.

cdr CONCRETE DESIGN REINFORCEMENT
 2802 WEST BUCKLEHEAD AVENUE, BOCA RATON, FL 33434 (954) 877-9100 FAX (954) 877-4477

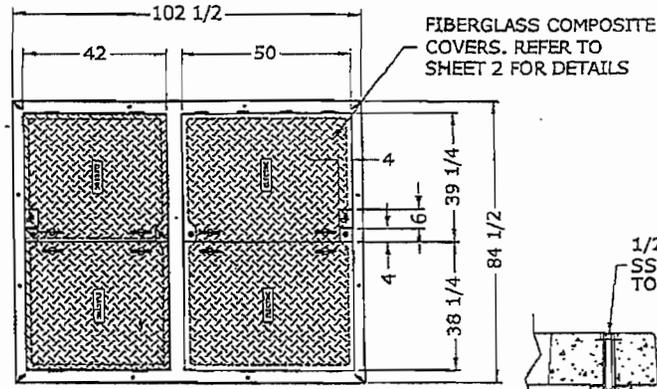
TITLE: **PA20-3048-38W**
BOX & COVER FOR FP&L

REV. 2	REV. 1	DATE	11/29/89
DRAWN	H DAVIS	DATE	11/29/89
CHECKED		DATE	
APPROVED	<i>ADK</i>	DATE	051-0005

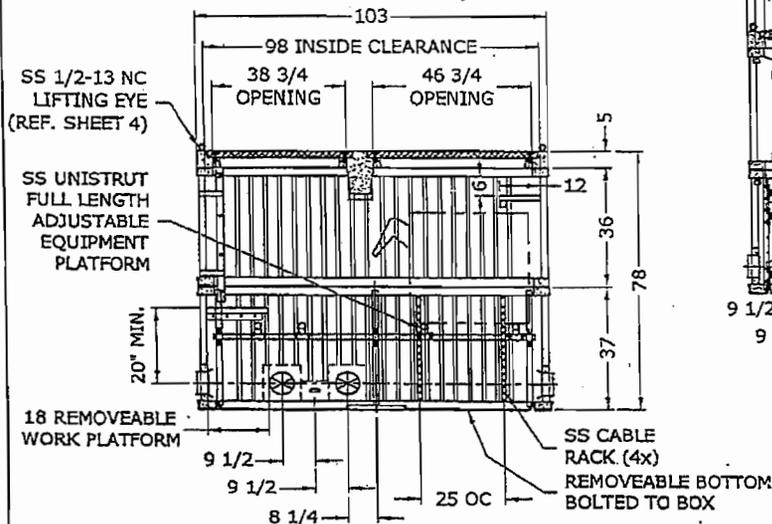
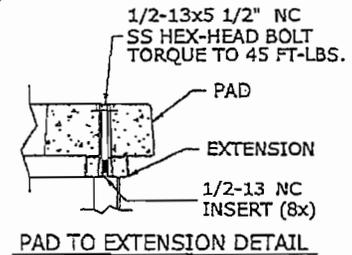
ERBM/MD



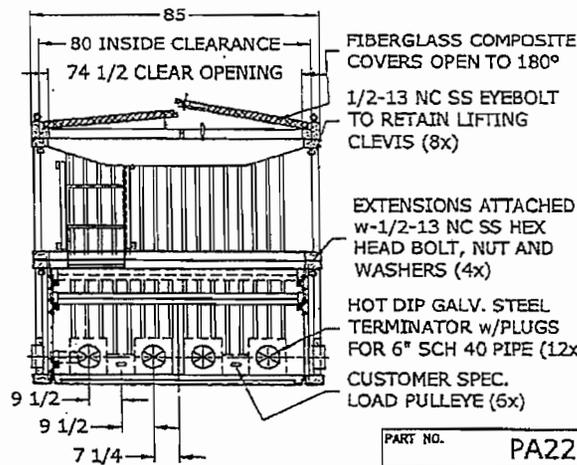
TOP VIEW
PAD AND COVERS REMOVED



PAD/COVER TOP VIEW
NOTE: ALL PLAN DIMENSIONS SHOWN AT PAD TOP SURFACE



SECTION VIEW



END SECTION VIEW

COMPONENTS		WT.
COVER	VC394202 (2x)	154
COVER	VC395002 (2x)	182
EXT	PE22-7896-36	835
EXT	PE22-7896-37	858
PAD	PP-85103-5077/4277	354
APPROX. TOTAL WT.		2,383

- MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
- COLOR: CONCRETE GRAY
- LOAD RATING: A16 (ASTM C857)
- LOGO: ELECTRIC

PART NO. PA22-7896-78BTA-0003

78x96x78 POWER ASSEMBLY
w/ REMOVEABLE PAD, FIBERGLASS COMPOSITE
COVERS, RACKING AND PLATFORMS

FLORIDA POWER AND LIGHT

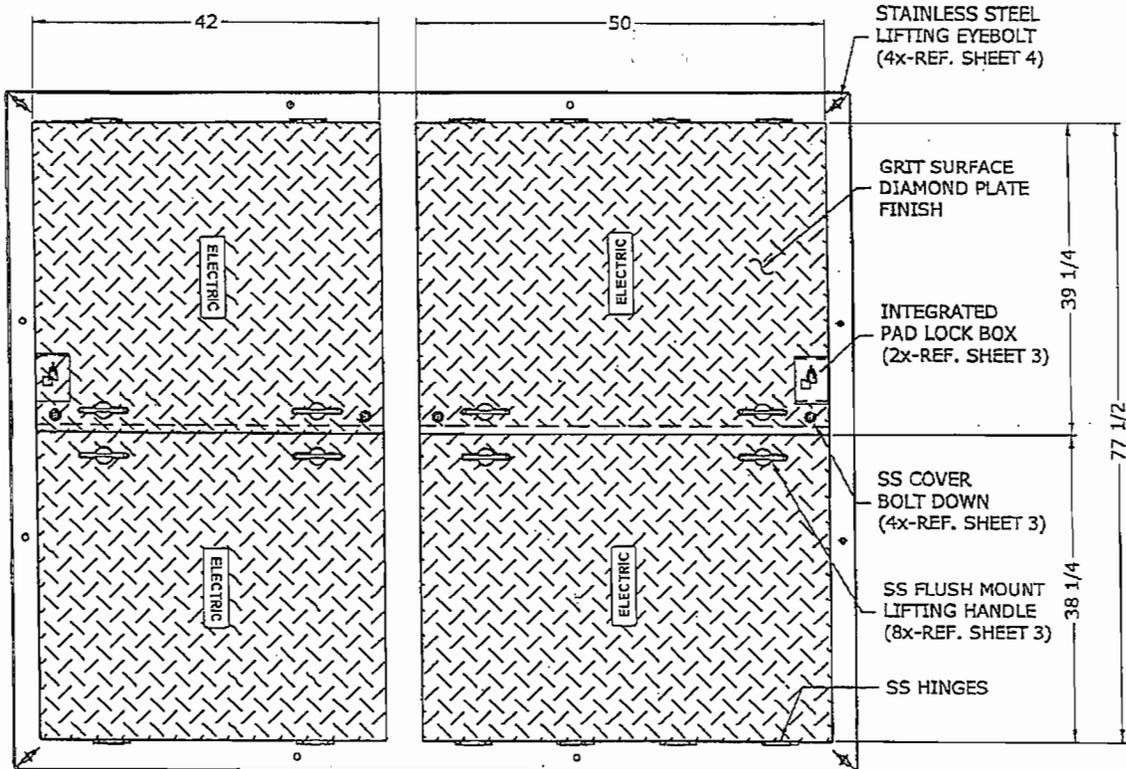
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cdr SYSTEMS CORP.
146 SOUTH ATLANTIC AVE., ORMOND BEACH, FL 32176
PHONE: (386) 615-9510 FAX: (386) 615-9606

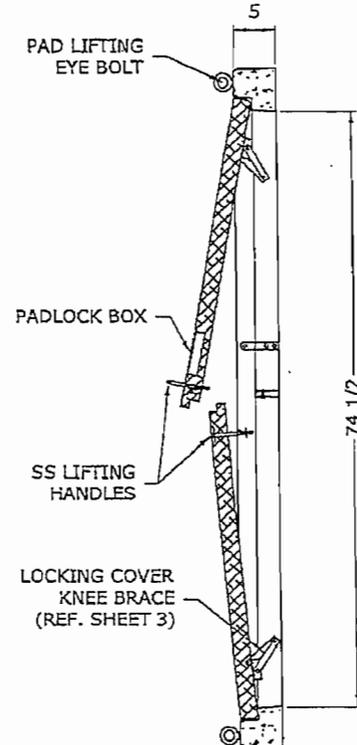
REV 4 EGH 5/18/07

DATE: 2/9/06 DRN: EGH CHK'D: [Signature] APPR'D: [Signature] DWG. NO.: 467-0003 1 of 4

ERBM/MD



TOP VIEW

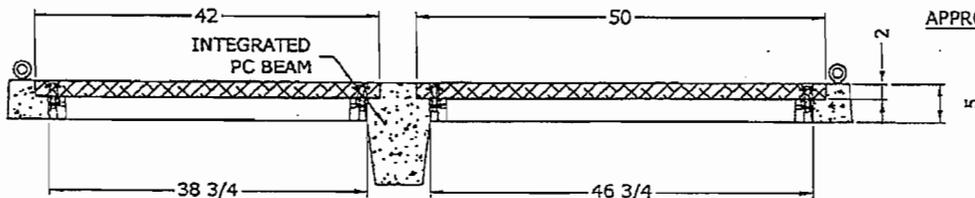


SIDE SECTION

COVER WEIGHT: 42" COVER = 77-LB EA.
50" COVER = 91-LB EA.

APPROX. PAD WEIGHT: 354-LBS

APPROX. TOTAL WEIGHT: 690-LBS



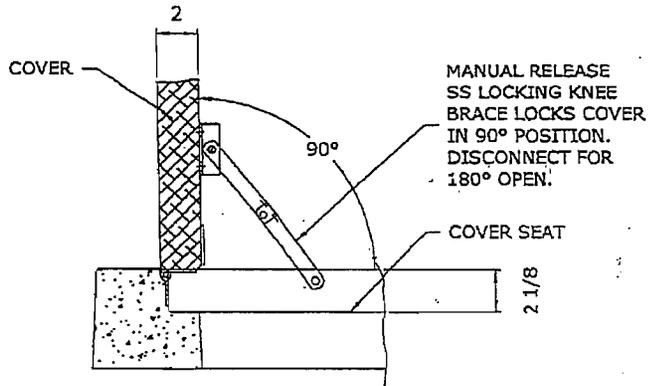
END SECTION

PART NO.	PA22-7896-78BTA-0003
78x96x78 POWER ASSEMBLY COVER PLAN AND SECTION	
FLORIDA POWER AND LIGHT	
cdr SYSTEMS CORP. 146 SOUTH ATLANTIC AVE., ORMOND BEACH, FL 32176 PHONE: (386) 615-9510 FAX: (386) 615-9605	
DATE:	2/9/06
DRN:	EGH
CHK'D:	AMR
APP'VD:	[Signature]
DWG. NO.:	467-0003 2 of 4

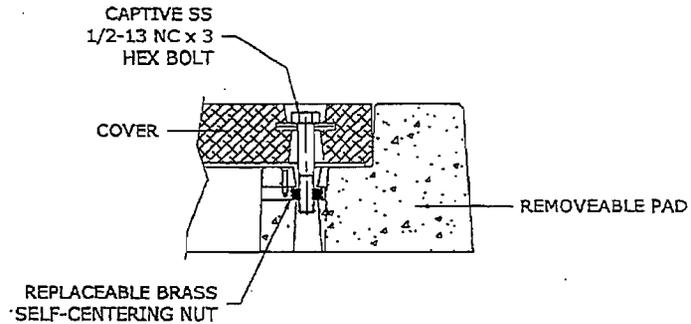
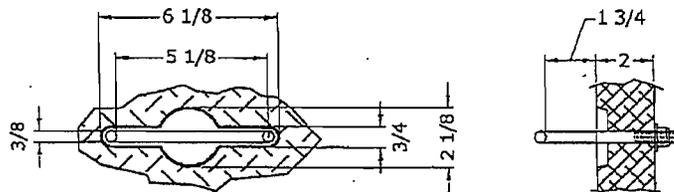
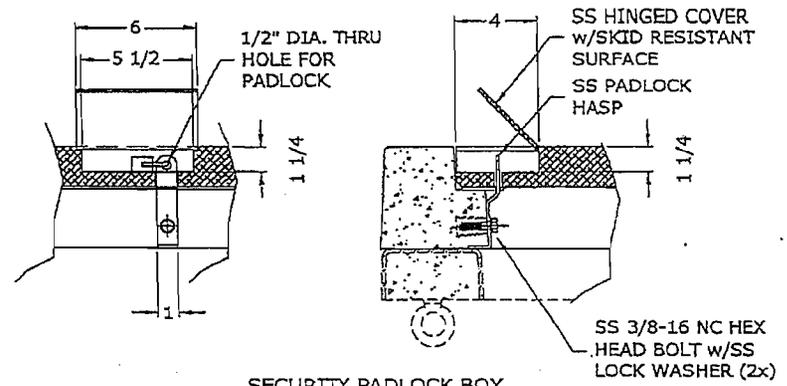
ITEM #

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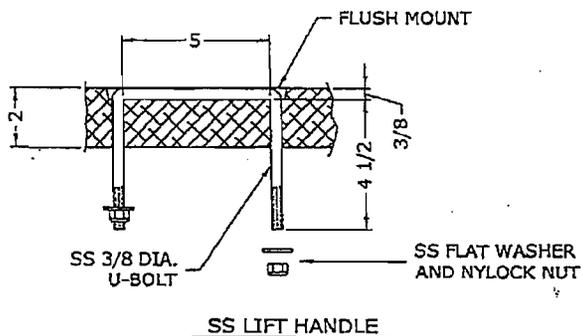
REV 4 EGH 5/18/07



COVER LOCKING BRACE



COVER BOLT DOWN DETAIL



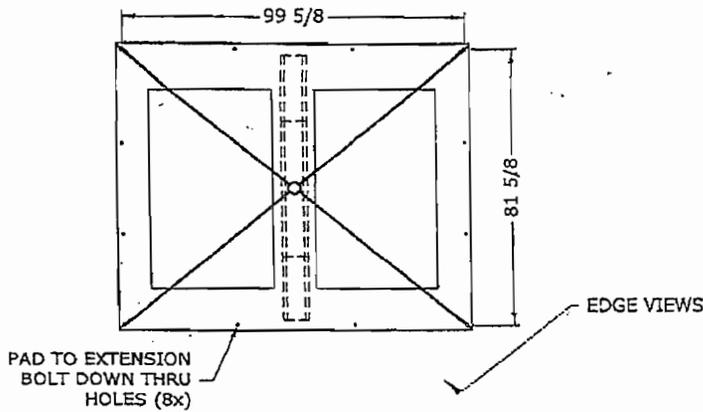
PART NO.	PA22-7896-78BTA-0003
	78x96x78 POWER ASSEMBLY COVER DETAILS
	FLORIDA POWER AND LIGHT
	cdr SYSTEMS CORP. 146 SOUTH ATLANTIC AVE., ORMOND BEACH, FL 32176 PHONE: (386) 615-9510 FAX: (386) 615-9606
DATE:	2/9/06
DRN:	EGH
CHK'D:	EGH
APPR. YD:	<i>MDK</i>
DWG. NO.:	467-0003 3 of 4

ITEM #

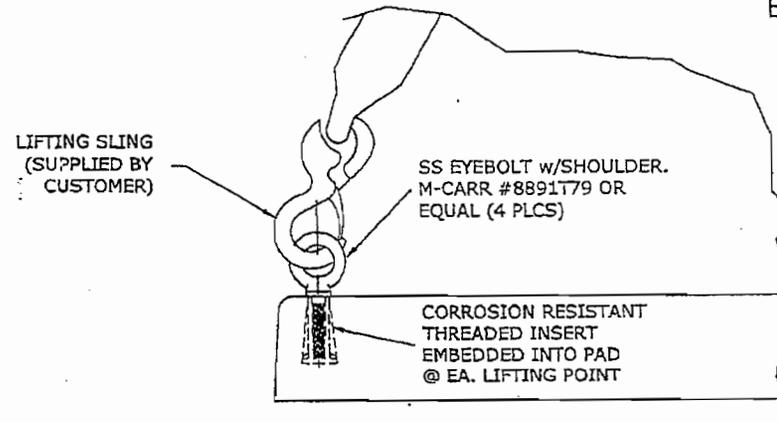
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REV 4 EGH 5/18/07

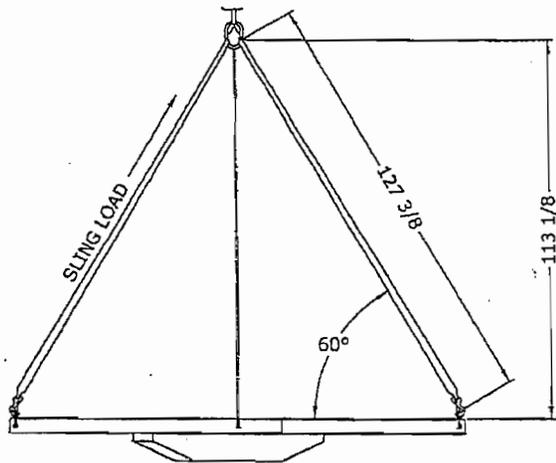
ERBM/MD



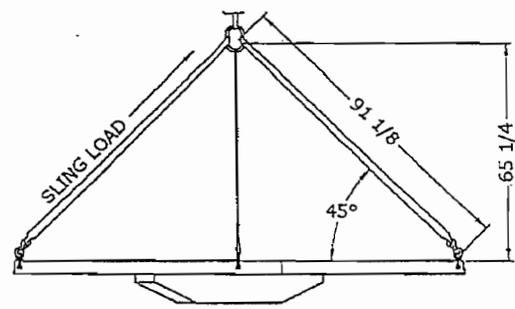
LIFTING EYE LOCATIONS



LIFTING EYE DETAIL
REMOVE LIFTING EYEBOLT
AFTER PAD INSTALLATION



EDGE VIEW 60°



EDGE VIEW 45°

NOTE: LIFTING EYE CAPACITY AS NOTED: 2600-LBS DIRECT PULL

LOAD PER LIFTING EYE IS TOTAL PAD AND COVER WEIGHT DIVIDED BY THE TOTAL NUMBER OF LIFTING POINTS: 173-LBS

LOAD PER SLING LEG @ 60° IS 1.155 x LIFTING EYE LOAD: 200-LBS
LOAD PER SLING LEG @ 45° IS 1.414 x LIFTING EYE LOAD: 245-LBS

LIFT SLING PROVIDED BY OTHERS

ITEM #	PART NO.
	PA22-7896-78B-0003
	78x96x78 POWER ASSEMBLY REMOVEABLE PAD LIFTING DETAILS
	FLORIDA POWER AND LIGHT
	cdr SYSTEMS CORP.
	146 SOUTH ATLANTIC AVE., ORMOND BEACH, FL 32176 PHONE: (386) 615-9510 FAX: (386) 615-9606
DATE: 2/9/06	DRWG. NO.: 467-0003 4 of 4
DRWG: EGH	CHK'D: [Signature]
APPR'D: [Signature]	

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REV 4 EGH 5/18/07

ATTACHMENT D

**CITY/COUNTY RIGHT-OF-WAY AGREEMENT FOR UNDERGROUND CONVERSIONS
(WR#4325648)**

**CITY/COUNTY RIGHT-OF-WAY
AGREEMENT FOR UNDERGROUND CONVERSIONS (WR #4325648)**

THIS AGREEMENT (the "**Agreement**") is made and entered into this ___ day of _____, 20____ by and between CITY OF POMPANO BEACH ("**Local Government**"), a Florida municipal corporation or county with an address of 100 W. Atlantic Blvd., Rm. 276, Pompano Beach, FL and Florida Power & Light Company ("**FPL**"), a Florida corporation with an address of P.O. Box 14000, 700 Universe Boulevard, Juno Beach, FL 33408-0429.

WHEREAS, Local Government has requested that FPL convert certain overhead electric distribution facilities located within the following boundaries (the "**Conversion**"): Along West Atlantic Blvd., then, north to N.E. 4th St., east of N. Dixie Hwy. and west of N.E. 1st Ave. in Pompano Beach (UG. WR # 4325648) (collectively, the "**Existing Overhead Facilities**") to underground facilities, including transformers, switch cabinets and other appurtenant facilities some of which may be installed above ground (collectively, the "**Underground Facilities**") and has further requested that certain of the Underground Facilities be placed in certain of its road rights-of-way ("**Local Government ROW**") and/or certain road rights-of-way owned by or under the jurisdiction of other agencies ("**Other ROW**"). Local Government ROW and Other ROW may be referred to collectively as "**ROW**"; and

WHEREAS, the Local Government has agreed to pay FPL the cost of such Conversion as required by FPL's electric tariff and Section 25-6.115 of the Florida Administrative Code and has or will enter into a separate Underground Facilities Conversion Agreement with FPL; and

WHEREAS, FPL is willing, subject to the terms and conditions set forth in this Agreement, FPL's electric tariff and Section 25-6.115 of the Florida Administrative Code, to place certain of the Underground Facilities in the ROW.

NOW THEREFORE, in recognition of the foregoing premises and the covenants and agreements set forth herein, and other consideration the sufficiency of which is hereby acknowledged, intending to be legally bound hereby, the parties covenant and agree as follows:

1. The foregoing recitals are true and correct, and are hereby incorporated by reference into this Agreement.

2. Conditions Precedent to Placement of Underground Facilities in ROW

- (a) Local Government covenants, represents and warrants that:
 - (i) Local Government has full legal right and authority to enter into this Agreement;
 - (ii) Local Government has full legal right and authority to take all actions and measures necessary to fulfill Local Government's obligations under this Agreement;
 - (iii) Local Government hereby authorizes the use of the ROW by FPL for the purposes stated herein.
- (b) All applicable permits for FPL to install, construct, or maintain Underground Facilities in ROW must be issued on a timely basis by the appropriate agency, subject to the timely filing for permits by FPL.
- (c) Local Government agrees to provide, at its expense, a legal description that is acceptable to FPL of the ROW to be occupied by the Underground Facilities at a time before FPL initiates the design of the Underground Facilities. Said legal description shall be made part of this Agreement and attached as Exhibit "A".
- (d) FPL agrees to identify and document all existing FPL underground facilities within the ROW that will not be included under this Agreement. Local Government shall reimburse FPL's reasonable costs and expenses to deliver said documentation. Said documentation shall be made part of this Agreement and attached as Exhibit "B".
- (e) FPL warrants that the design of the Underground Facilities to which Local Government has agreed are in compliance with all operational and safety guidelines, codes and standards. FPL and Local Government have mutually agreed upon the location of the facilities within the ROW as per the construction drawings. Said construction drawings shall be attached as Exhibit "C" to this agreement, are part of this agreement, and may be amended to reflect changes to location of facilities as required.

3. Relocation and Rearrangement of FPL Facilities. If the Local Government or other agency with control over the Local Government ROW or Other ROW, for any reason whatsoever, requires that FPL relocate or rearrange, in whole or in part, any Underground Facilities (as they are to exist as a result of this Conversion, or as they may later be modified, upgraded, or otherwise altered) from or within the Local Government ROW or Other ROW, the Local Government, notwithstanding any language to the contrary in any applicable permit or franchise agreement, and prior to any such relocation by FPL, shall provide FPL with a substitute location, satisfactory to FPL, obtain any easements that may be necessary, and shall pay FPL for the costs of any such relocation, adjustment or rearrangement, now or in the future. Local Government shall reimburse FPL for all costs to locate, expose, protect or support the Underground Facilities, whether underground or above ground, in the event of future construction or excavation in close proximity to the Underground Facilities, when such services are required by Local Government or other agency with control over the Local Government

ROW or Other ROW Local Government shall use its best efforts in any design and construction of its future road improvement projects to avoid or mitigate the necessity of relocating or adjusting the Underground Facilities in Local Government ROW and, to the extent reasonably practicable, in Other ROW.

Local Government shall only be responsible for relocation costs associated with replacement facilities conforming to FPL standards in effect at the time of relocation. Any costs associated with the replacement facilities to provide increased capacity, improved reliability, future use facilities, or other such enhancements over and above the FPL standards in effect at the time of the relocation shall not be the responsibility of Local Government.

Nothing herein shall preclude Local Government from obtaining reimbursement for any and all costs requiring FPL to relocate or rearrange any of its Underground Facilities from that entity which initiated the requirement for the relocation or rearrangement of the facilities, excluding only other agencies which own or have jurisdiction over the ROW.

FPL shall be responsible for any and all costs of removal or relocation when such removal or relocation is initiated by FPL. Additionally, FPL agrees that when any portion of a street is excavated by FPL in the location, relocation or repair of any of its facilities when said location, relocation or repair is initiated by FPL, the portion of the street so excavated shall, within a reasonable time and as early as practical after such excavation, be replaced by FPL at its expense in a condition as good as it was at the time of such excavation.

4. **Abandonment or Sale of Local Government ROW.** If the Local Government desires to subsequently abandon or discontinue use of the Local Government ROW, and ownership of the land is transferred to a private party, the Local Government, as a condition of and prior to any such sale, abandonment, or vacation, shall grant FPL an easement satisfactory to FPL for the Underground Facilities then existing within the ROW or require the transferee to so grant FPL an easement satisfactory to FPL at the time of transfer. If ownership of the Local Government ROW is transferred to another public entity, that public entity shall take the ROW subject to the terms and conditions of this Agreement.

5. **Term.** This Agreement shall remain in effect for as long as FPL or any successor or assign owns or operates the Underground Facilities placed in the ROW.

6. **Title and Ownership of Underground Facilities.** Title and ownership of Underground Facilities installed by FPL as a result of this Agreement shall, at all times, remain the property of FPL.

7. **Conversion Outside ROW.** In the event that the FPL Underground Facilities are not, for any reason other than the sole error of FPL or its contractors,

constructed within the ROW, Local Government shall grant or secure, at Local Government's sole cost and expense, new easements or ROW grants for the benefit of FPL for the placement of the Underground Facilities in these areas, and shall secure subordinations of any mortgages affecting these tracts to the interest of FPL. In the alternative, at the discretion of Local Government, Local Government shall reimburse FPL for all costs incurred to remove said facilities which were constructed outside the ROW and for reinstallation within the ROW. FPL shall be responsible at completion of construction for notifying Local Government in writing of FPL's approval and acceptance of the conversion as being constructed within the ROW. Upon acceptance there shall be no further responsibility on the Local Government for relocations referenced in this paragraph.

8. **Agreement Subject to FPL's Electric Tariff.** This Agreement is subject to FPL's electric tariff, including but not limited to the general rules and regulations for electric service and the rules of the Florida Public Service Commission.

9. **Venue; Waiver of Jury Trial.** This Agreement shall be enforceable in Broward County, Florida, and if legal action is necessary by either party with respect to the enforcement of any or all of the terms or conditions herein, exclusive venue for the enforcement of same shall lie in Broward County, Florida. By entering into this Agreement, FPL and the Local Government expressly waive any rights either party may have to a trial by jury of any civil litigation related to or arising out of this Agreement. This Agreement shall be construed in accordance with the laws of the State of Florida.

10. **Attorney Fees.** In the event it becomes necessary for either party to institute or defend legal proceedings as a result of the failure of the other party to comply with the terms, covenants, or provisions of this Agreement, each party in such litigation shall bear its own cost and expenses incurred and extended in connection therewith, including, but not limited to attorneys' fees and court costs through all trial and appellate levels.

11. **Assignment.** The Local Government shall not assign this Agreement without the written consent of FPL.

12. **Recording.** This Agreement shall be adopted by the Local Government and maintained in the official records of Local Government for the duration of the term of this Agreement. This Agreement also shall be recorded in the Official Records of the County in which the Underground Facilities are located, in the place and in the manner in which deeds are typically recorded.

13. **Conflict between Terms of Permit or Franchise Agreement.** In the event of a conflict between the terms of this Agreement and any permit or franchise agreement entered into by Local Government and FPL, the terms of this Agreement shall control.

14. **Notice.** Any notice, instruction or other communication to be given to either party hereunder shall be in writing and shall be hand delivered, telecopied, sent by Federal Express or a comparable overnight service or by U. S. registered or certified mail, with return receipt requested and postage prepaid to each party at their respective addresses set forth below:

As to Local Government:

City of Pompano Beach
100 West Atlantic Blvd
Pompano Beach, FL 33061

With copies to:

As to FPL:

FPL
700 Universe Blvd.
Juno Beach, FL 33408
Attn.: FPL Legal Department

"CITY":

Witnesses:

CITY OF POMPANO BEACH

By: _____
LAMAR FISHER, MAYOR

By: _____
DENNIS W. BEACH
CITY MANAGER

Attest:

MARY L. CHAMBERS
CITY CLERK

(SEAL)

Approved As To Form:

GORDON B. LINN
CITY ATTORNEY

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this ____ day of _____, 2015 by LAMAR FISHER, as Mayor, DENNIS W. BEACH as City Manager and MARY L. CHAMBERS, as City Clerk of the City of Pompano Beach, Florida, a municipal corporation, on behalf of the municipal corporation, who are personally known to me.

NOTARY'S SEAL:

NOTARY PUBLIC, STATE OF FLORIDA

(Name of Acknowledger Typed, Printed or Stamped)

Commission Number

Exhibit A

WR # 4325648

Portions of the right-of-way of the following streets will be used to locate Florida Power and Light facilities:

- 1) NE 1 Avenue from Atlantic Boulevard to NE 4 Street
- 2) From FEC east right of way across Flagler Avenue along NE 2 Street to a point 50 feet east of NE 1 Avenue

Final right of way descriptions to be provided upon construction being completed.

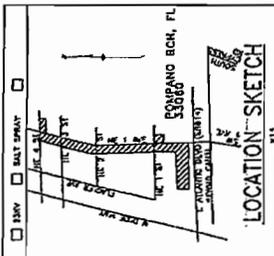
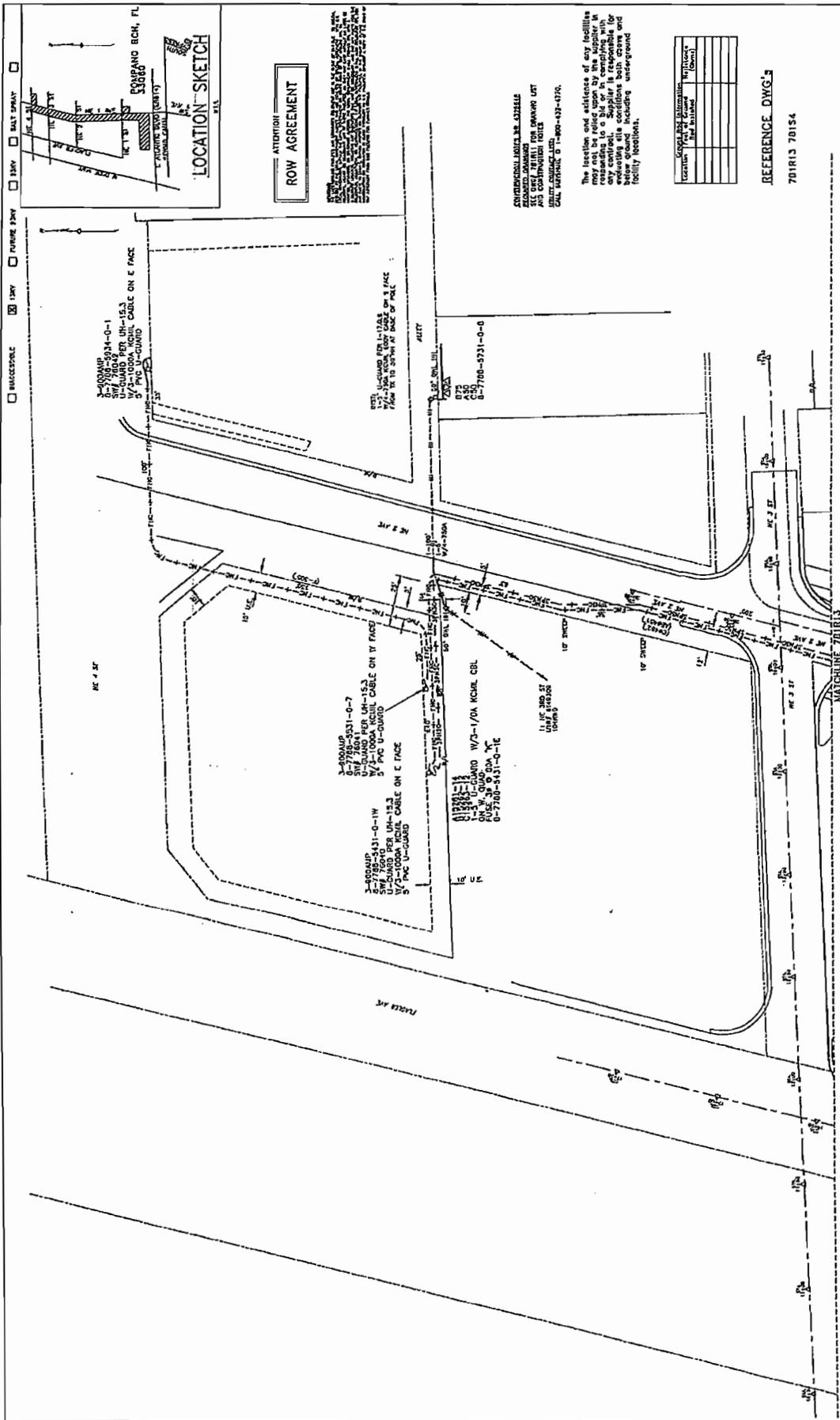
Exhibit B

WR # 4325648

Currently, there is no existing underground equipment within the road right-of-way.

Exhibit C

WR # 4325648



ATTENTION
ROW AGREEMENT

CONTRACTOR: LANCE W. AZZELLE
 ADDRESS: 10000 W. 11th Ave., Suite 100
 Pompano Beach, FL 33062
 PHONE: 954-780-4371

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The location and existence of any facilities shown on this plan are shown in accordance with a plan or a certificate of any control. Supplier is responsible for any errors in the plan and for any and all items shown on the plan and facility locations.

CONTRACTOR'S INFORMATION	PROPERTY INFORMATION

REFERENCE DWG'S
 701R13 701S4

DATE: 11/17/24
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

PROJECT NO.	701R13
DWG NO.	701S4
DATE	11/17/24
DRAWN BY	[Signature]
CHECKED BY	[Signature]
SCALE	AS SHOWN

OH TO UG CONVERSION
 CITY OF POMPAHO BEACH
 701R13
 701S4



PROJECT NO.	701R13
DWG NO.	701S4
DATE	11/17/24
DRAWN BY	[Signature]
CHECKED BY	[Signature]
SCALE	AS SHOWN

AS-BUILT COPY
 ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED
 ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED

ON TO UG CONV. PLAN FOR THE CABLE, USE THE 10' SWC PROPERTY READI

DATE: 11/17/24
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

PROJECT NO. 701R13
 DWG NO. 701S4

DATE: 11/17/24
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

PROJECT NO. 701R13
 DWG NO. 701S4

DATE: 11/17/24
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

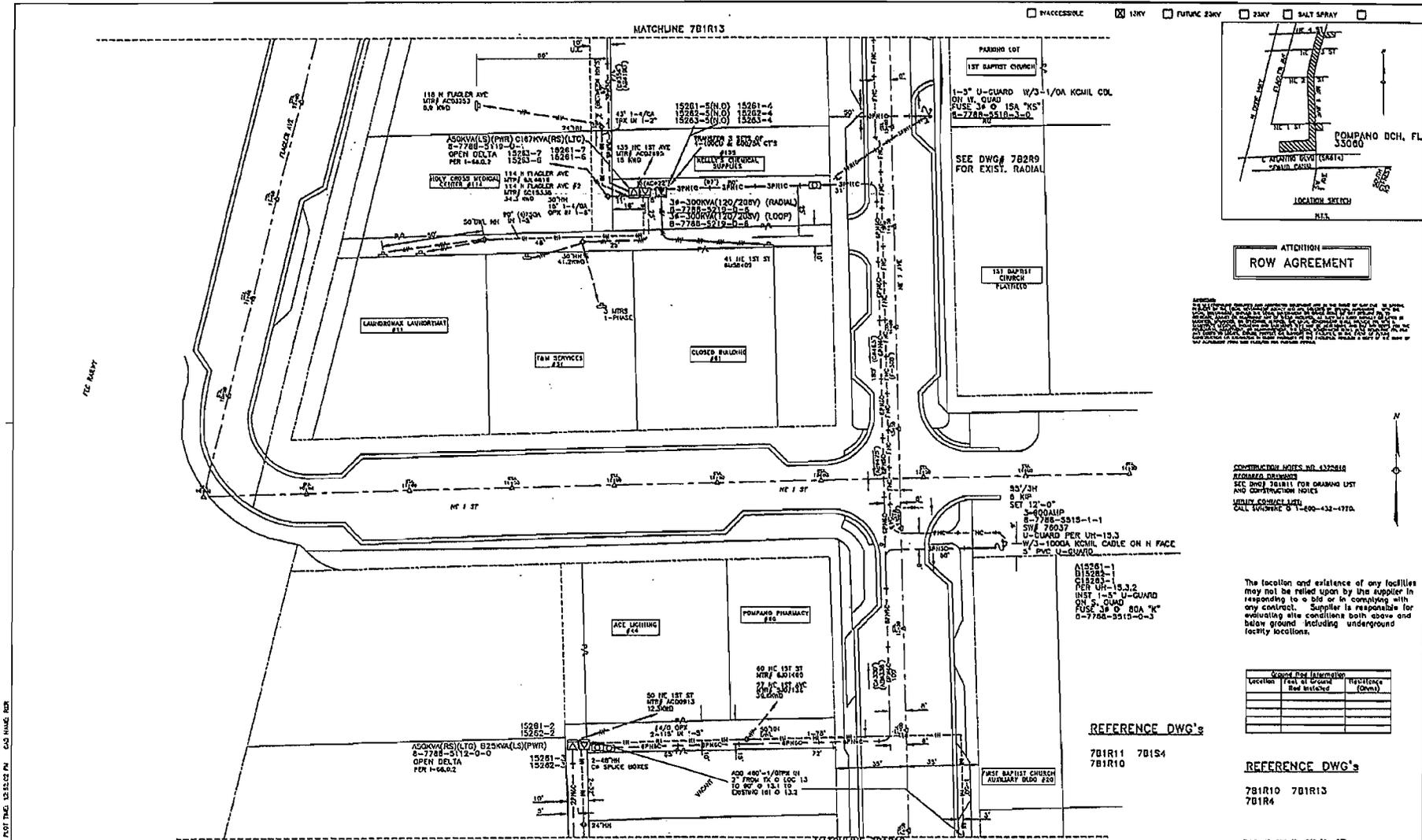
PROJECT NO. 701R13
 DWG NO. 701S4

DATE: 11/17/24
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 CHECKED BY: [Signature]

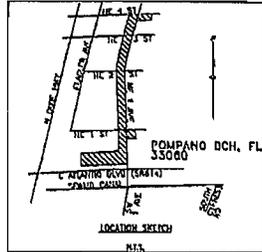
PROJECT NO. 701R13
 DWG NO. 701S4

DATE: 11/17/24
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

PROJECT NO. 701R13
 DWG NO. 701S4



ACCESSIBLE
 IRVY
 FUTURE 20KV
 2KV
 SALT SPRAY



ATTENTION
ROW AGREEMENT

NOTICE: THE USER OF THIS PLAN AGREES TO HOLD THE STATE OF FLORIDA HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, THAT MAY BE ASSERTED AGAINST THE STATE OF FLORIDA BY ANY PARTY AS A RESULT OF THE USER'S USE OF THIS PLAN. THE USER'S USE OF THIS PLAN IS LIMITED TO THE PROJECT AND LOCATION IDENTIFIED HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ROW AGREEMENTS FROM THE PROPERTY OWNERS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES INFORMATION FROM THE UTILITIES COMPANIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE RECORD DRAWING DEPARTMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE RECORD DRAWING DEPARTMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE RECORD DRAWING DEPARTMENT.

CONSTRUCTION NOTES NO. 437818
 ALLOWED REVISIONS
 SEE DWG 78111 FOR DRAWING LIST
 AND CONSTRUCTION NOTES
 UNDER CONTRACT ONLY
 CALL LUMBER CO. 1-800-432-4370.

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

Location	Feet of Ground Rod Installed	Reference (Cont.)

REFERENCE DWG'S
78111 78154
78110

REFERENCE DWG'S
78110 78113
78114

11/20/2014 10:52:27 AM 000 IMAGE.DWG

4325610	0	10/23/14	OH TO UG CONV, PULL PER & PH CABLE, REST TRKS TO SYNC POMPANO DEAD!
AUTH NO.	NO.	DATE	REVISION

OH TO UG CONV, PULL PER & PH CABLE, REST TRKS TO SYNC POMPANO DEAD!
 ALL CHANGES MUST BE MADE TO THE AS-BUILT PRINT
 METAL CHANGES SHOWN ON RDS.

AS-BUILT COPY	AS-BUILT CREW PRINT	Examined?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Survey/Checked	YES <input type="checkbox"/> NO <input type="checkbox"/>	Work with 200V	YES <input type="checkbox"/> NO <input type="checkbox"/>
DATE	ISSUED	Test Work?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Drawn/Checked?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CT/240V/120V	YES <input type="checkbox"/> NO <input type="checkbox"/>
JOB COMPLETED as shown on this AS-BUILT PRINT Metal changes shown on RDS.		Map Posting?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Trunch Feet	YES <input type="checkbox"/> NO <input type="checkbox"/>	Dist Bank Feet	YES <input type="checkbox"/> NO <input type="checkbox"/>
SPONSOR'S OFFICE		CITY		DR. DISE.	COUNTY AIR	STATE RD	FAA
DATE		NO.		NO.	NO.	NO.	NO.
PROJECT NO.		CITY REQUEST		YES <input type="checkbox"/> NO <input type="checkbox"/>	CITY REQUEST		
REVISION		DATE					



DESIGNED BY	
DRAWN BY	
DATE	
MAP NO.	U-0343
DWG NO.	78112
FEET	0 10 20 40

OH TO UG CONVERSION
 CITY OF POMPANO BEACH
 V/O ATLANTIC BLVD & NE 1 AVE
 POMPANO BEACH / BROWARD COUNTY, FL
78112

