



Electric Engineering Division

**COMMERCIAL CONDUIT
RULES AND REGULATIONS**



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Electric Engineering Division

Dear Developer:

Over the next few months, the City of Ocala Electric Utility (OEU) will be working closely with you and your contractors to install the electrical conduit system for your project. We in the Electric Engineering Division are looking forward to working with your contractors and want the installation to proceed as smoothly as possible.

Attached, please find the OEU Commercial Conduit Rules and Regulations for use by your electrical conduit contractor. If the contractor has any questions that are not addressed in this guide, please contact the OEU representative responsible for the project.

Respectfully,
Ocala Electric Utility
Engineering Division

OCALA ELECTRIC UTILITY STANDARDS

TERMS AND DEFINITIONS

Conduit System:	Any combination of duct, conduits, cabinets and vaults joined to form an integrated whole.
Conduit Stub-up:	Any vertical length of conduit that allows above ground access to an underground electrical conduit raceway.
Developer:	Architect, engineer, electrician, owner, or contractor responsible for the installation of the electric facilities.
Utility Easement:	A legal document giving the Utility limited use of private property to provide electric service.
Ells:	Heavy wall rigid Schedule 40 PVC conduit elbow; gray in color; Electrical grade, radius according to size: 2", 3", 4" diameter = 24" radius; 6" diameter = 36" radius.
Final Grade:	The grade at the time of completion of the site including all buildings.
Overhead Construction:	The standard placement of electric distribution lines on wood, metal, composite or concrete poles above ground.
Point of Service:	The point within a parcel of property that is determined the closest and most reasonable for Ocala Electric Utility to provide electric service. Typically where OEU facilities end and the customer's begin.
Primary Cable:	Electrical cable used for the purpose of transmitting high voltage (above one thousand volts) from one point to another.
Primary Riser:	Any vertical length of conduit used to transition overhead primary to underground primary.
Primary Cabinet:	An above ground metal enclosure, used by the utility for joining primary electrical cables.
Primary Conduit:	Conduit intended for use with primary cable.
Raceway:	An enclosed channel designed expressly for holding wire or cables. A conduit is a raceway, so is a duct.
Right-of-way:	A strip of land occupied or intended to be occupied by a road, crosswalk, railroad, electric power line, oil or gas pipeline, water main, sanitary or storm sewer main, or for similar use.
Riser Stub-up:	A vertical length of conduit installed above ell at pole or stub-up location.

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COMMERCIAL CONDUIT POLICY

TERMS AND DEFINITIONS

OCALA ELECTRIC UTILITY STANDARDS

Secondary Cabinet:	Junction point to terminate secondary conductor. Above ground cabinet usually contains Utility cable and customer cable within the same enclosure.
Secondary Cable:	Electrical cable used for the purpose of transmitting low voltage (600 volt cable) from one point to another.
Secondary Riser:	Any vertical length of conduit used to transition overhead secondary to underground secondary.
Secondary Vault:	A below ground fiberglass enclosure, used for joining secondary electrical cables.
Service Wire:	Cable between OEU Electric facilities and meter pedestals or meters.
Secondary/Service Conduit:	Conduit intended for use with secondary or service cable. Raceway between OEU facilities and the customer's meter.
Sweep:	A gradual curve of the conduit raceway used to change direction of the conduit run.
Transformer:	Electrical device used for converting voltage levels.
Transformer Pad:	A ground mounted platform used to support a transformer.
Underground Construction:	The placement of electric primary and/or secondary cable and conduit below final grade.
Warning Tape:	Six (6) inch wide red warning tape installed in all trenches above conduit system at twelve (12) inches below final grade.

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TERMS AND DEFINITIONS CONT.

OCALA ELECTRIC UTILITY STANDARDS

DEVELOPERS RESPONSIBILITIES

1. Installation of the underground electric conduit system shall not begin until the contractor is issued prints stamped “**APPROVED FOR CONSTRUCTION**” and initialed by the Engineer assigned to the project. Any print(s) that are unstamped or stamped “preliminary” cannot be used for construction. Field changes to the conduit design must be approved by OEU in writing.
2. Construction site must be within six (6) inches of final grade or the Developer must provide elevations for the conduit route before any conduit installation may begin.
3. The conduit system must be inspected by an authorized OEU inspector, Electric Engineering Division, 351-6620 prior to closing the trench. Failure to comply will result in re-opening of the trench at Developer's expense.
4. The Developer shall be responsible for staking all electrical cable routes, cabinets, vaults and transformer locations as indicated in the approved construction drawings supplied by OEU. Any relocation needed after the conduit is installed will be at the Developer's expense.
5. The Developer shall be responsible for supplying property markers, right-of-way markers, radius of curvature markers, sidewalk markers, and curb markers as needed for the electrical conduit installation before, during and after construction.
6. The Developer shall be held responsible and liable for the electrical conduit system until OEU Electric Engineering Division accepts it. The conduit installed will be officially accepted when OEU successfully installs cable in the conduit system. All as-built drawings must be submitted to the Electric Engineering Division prior to final acceptance.
7. The Developer shall be responsible to ensure that shrubs, plants, and structures are kept nine(9) feet from the front side of padmount transformers, and three (3) feet from the other sides. OEU reserves the right to remove any obstructions without notice to the owner if any deviations from this standard are encountered in the field. (SEE EXHIBIT 12).
8. City, County or State Road Permits and Railroad Permits will be obtained by OEU as necessary. No construction can be started until all applicable approved permits are received.
9. If a temporary construction service is required the meter post will be installed at the right side rear of the transformer or the rear of the secondary vault. (SEE EXHIBIT 18)
10. The Developer shall provide service conduit and conductor from the meter can to the secondary vault or padmounted transformer.

These specifications reflect minimum requirements and OEU reserves the right to alter or impose more stringent requirements as necessary for good engineering design.

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COMMERCIAL CONDUIT POLICY

DEVELOPERS RESPONSIBILITIES

TRENCH SPECIFICATIONS AND PROCEDURES

1. All primary and secondary conduits shall utilize the same trench whenever possible.
2. **Depth:** All trenches must be level and dug to allow thirty-six (36) inches of fill from the top of the conduit to final grade.
3. **Width:** All trenches must be a minimum of six (6) inches in width. If more than one conduit is being installed in a trench, no stacking of conduits is permitted. All conduits must lay flat in the trench. (SEE EXHIBIT 19)
4. After the Electric Engineering Division has inspected and approved the conduit within an opened trench, the trench must then be backfilled with soil free from any debris. This backfill soil must be on site and inspected prior to use for backfilling.
5. The Developer shall be responsible for the disposal of any foreign materials that are removed from any trench.
6. The Developer shall be responsible for any and all compaction (if needed) within the road right-of-way and on private property. This includes all landscaping and swale reconstruction.
7. Whenever applicable, trenching and backfilling including compaction will conform to City, County, or State jurisdictions. Where trench crosses present or future pavement or roadways, compaction and density testing may be required to conform to article 125-8.3 of the Florida Department of Transportation Specifications for Road and Bridge Construction.
8. The Developer shall supply and install underground warning tape directly above the conduit in all trenches and at a depth of twelve (12) inches below final grade. (SEE EXHIBIT 9)

REQUIREMENTS FOR JOINT USE OF TRENCH

For other utilities wanting to utilize the same trench with OEU, the following guidelines and requirements must be followed:

- a) Two (2) foreign utilities, telephone and cable TV, are permitted (with a joint use agreement) to utilize an electric trench. When either of these utilities wants to utilize the same trench, each utility must maintain a minimum vertical clearance of twelve (12) inches separating the electric cable from the other utility and a horizontal clearance of eighteen (18) inches. (SEE EXHIBIT 10)
- b) Water, Gas and Sewer are not permitted to utilize an electric trench except for coincidental crossings that may occur. In this event there must be a minimum of twelve (12) inch vertical clearance separating the electric cable from the other utility (SEE EXHIBIT 11)

OCALA ELECTRIC UTILITY STANDARDS

CONDUIT SPECIFICATIONS

1. Size and type of conduit and ells will be specified on construction print(s).
2. When not in a loop system, all primary conduit runs for commercial applications shall include a spare conduit for the length of the radial, including stub-ups.
3. **All conduits** shall be SCH 80 or SCH 40 rigid PVC conduit electrical grade; NEMA TC-2 specification; UL approved; rated for 90 degree C cable; furnished with coupling or integral long bell; gray in color; underground applications.
4. **Conduit couplings** shall be “long line” type.
5. **Primary/Secondary/Service/Lighting risers** shall be schedule 80 PVC conduit and are the responsibility of OEU.
6. **Primary/Secondary/Service/Lighting Riser Pole Stub-ups** shall be schedule 40.
7. **Ells** used in primary, secondary, or service conduit systems are 90 degree, schedule 40 PVC, and twenty-four (24) inch radius, (6” conduit requires thirty-six (36) inch radius) unless otherwise specified.
8. **Lighting Ells** shall be one (1) inch, 90 degree, schedule 40 PVC, twelve (12) inch radius, unless otherwise specified.
9. **C.T. metering ells** shall be one (1) inch, 90 degree, schedule 40 PVC, 12 inch radius.
10. **C.T. metering conduit** shall be one (1) inch schedule 40 PVC. Maximum length from the transformer pad to metering equipment to be twenty-five (25) feet.
11. **Primary Conduit raceways** shall be schedule 40 PVC conduit.
12. **Secondary Conduit raceways**, from transformer to secondary cabinet, shall be schedule 40 PVC conduit.
13. **Lighting conduit raceways** shall be one (1) inch, schedule 40 PVC conduit, unless otherwise specified.
14. **Primary, Secondary, Service, and lighting stub-ups** shall be schedule 40 PVC conduit at the base of OEU pole and shall be schedule 40 PVC at any other location.

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CONDUIT SPECIFICATIONS

OCALA ELECTRIC UTILITY STANDARDS

CONDUIT PROCEDURES

Raceways:

1. Primary conduit run shall not have more than three (3) bends within the run regardless of whether the bend is constructed from a 90 degree or 45 degree ell. This includes the ells for stub-ups.
2. Field bending of conduit, by heating, is not permitted.
3. Any conduit that passes under pavement may be encased in concrete with a minimum of six (6) inches of concrete on top and bottom, and three (3) inches on both sides. (SEE EXHIBIT 2) Installation of concrete is not a normal construction practice. Conduit supports must be installed every five (5) feet and the conduit must be secured in a manner that will prevent the conduit from floating during the installation of the concrete.
4. Conduit shall be installed in straight lines and remain level at all times. Sweeps shall not be used unless specified on the construction print. If more than one conduit is being installed, the placement of conduits must be installed in a horizontal, side by side configuration. (SEE EXHIBIT 19)
5. **Depths :** Primary and secondary conduit - minimum thirty-six (36) inches (to the top of the conduit) below final grade. (SEE EXHIBIT 4C)
6. A continuous length of polypropylene 200 pound pull line shall be installed in each conduit with an excess of ten (10) feet secured at each end. (Spare riser conduits shall have thirty (30) feet of excess length of nylon pull string for future use). The cord shall be installed after the conduit is glued together and all joints are cured to prevent the cord from sticking to the conduit.
7. Open ends of all conduits shall be covered or sealed with duct tape applied at double thickness. The tape shall cover the entire opening and all exposed string to prevent entry of water and other foreign materials. This also includes unfinished conduit runs left in a trench at the end of each workday. (SEE EXHIBIT 7)
8. All conduit runs shall be marked at the top of the stub-up with the same identification number as the first up-line or down-line electrical device to identify ends of conduit runs. Marks shall be made with a permanent marking pen, black in color. Identification numbers are indicated on the construction print with an alphanumeric character (for example: F1123). Any questions should be referred to the OEU representative responsible for the project.
9. PVC cleaner and cement shall be applied to all conduit joints in accordance with the manufacturer's specifications.
10. The raceway(s) are to be clear of any obstructions. The utility will pull a steel mandrel through the raceway to verify proper installation. The contractor must correct any obstructions encountered.

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COMMERCIAL CONDUIT POLICY

CONDUIT PROCEDURES

OCALA ELECTRIC UTILITY STANDARDS

Riser Stub-ups :

1. Riser stub-up at OEU pole shall consist of ninety (90) degree schedule 40 PVC ell at the bottom of the trench with a schedule 40 stub-up that is to extend a minimum two (2) feet above finish grade. Contractor shall supply and install this stub-up. (SEE EXHIBIT 1C, Secondary, and EXHIBIT 14, Primary)
2. Riser stub-up conduits shall be installed on the side of the pole opposite oncoming traffic or the field side of pole.
3. Primary, secondary and service riser conduits shall be installed by OEU to the conduit stub-up installed by the contractor.

Transformer Locations:

1. All conduits shall be stubbed up and capped at a minimum of four (4) feet above final grade at all transformer locations.
2. There shall be a four (4) inch minimum and seven (7) inch maximum separation between the primary and secondary conduit for single-phase transformer locations. (SEE EXHIBIT 4C)
3. There shall be an eight (8) inch minimum separation between the primary and secondary conduits for all three-phase transformer location, unless otherwise specified on transformer pad drawing. (SEE EXHIBIT 4C)
4. Construct three-phase transformer/secondary cabinet concrete pad. Concrete to be 3000 PSI at twenty-eight (28) days.
5. Number 3 reinforcing rods to be installed twelve (12) inches center. Dimensions of pad are site-specific and are to be supplied by OEU. Pad forms are to be inspected prior to pouring concrete.
6. Stub-ups at transformer locations shall be schedule 40 PVC.

Primary Cabinet Locations:

1. Conduit stub-ups at all single-phase primary cabinet locations shall be grouped together with one (1) inch of separation between each conduit. The conduit shall be stubbed up and capped at a minimum of four (4) feet above final grade. Conduit configuration shall not exceed twelve (12) inches in width and fifteen (15) inches in length. (SEE EXHIBIT 5)
2. Conduit stub-ups at all two (2) and three (3) phase cabinet locations shall be grouped in phases. Same phase conduits shall have one (1) inch of separation between each conduit and six (6) inches shall separate the phases. The conduit shall be stubbed up and capped at a minimum of four (4) feet above final grade. Conduit configuration shall not exceed twelve (12) inches in width and fifty (50) inches length. (SEE EXHIBIT 6)
3. Stub-ups at primary cabinet locations shall be schedule 40 PVC.

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CONDUIT PROCEDURES CONT.

SUMMARY

WORK TO BE PERFORMED AND MATERIAL TO BE FURNISHED BY THE DEVELOPER:

1. Open and close all trenches as required by the work order.
2. Furnish and install all conduits as required by the work order.
3. Provide a pull line in the conduit for use by OEU.
4. Supply and install warning tape above all conduit runs.
5. Construct concrete transformer/secondary cabinet pad per work order specifications.
6. Install secondary to transformer, secondary cabinet, or secondary vault as required.

WORK TO BE PERFORMED AND MATERIAL TO BE FURNISHED BY THE OEU:

1. Furnish and install distribution transformers.
2. Furnish and install all primary cabinets and secondary vaults.
3. Furnish, and install primary (high voltage) conductors.
4. Provide all construction prints needed for the electrical conduit installation.
5. Furnish, and install all secondary conductors from the transformer to the secondary cabinets, if specified.
6. Perform regular inspections of the conduit system as it is being installed.
7. Furnish and install all riser conduits.

Electric Work Order Symbol Legend

Distribution Transformer

- ▲ Distribution Transformer

Fuses

- S Overhead Expulsion
 ② Underground Expulsion

Flying Tap

- ✂ Flying Tap

Switches

- ⎓ Manual Hook Stick Disconnect
 ⎓ Gang Operated ABGO Load Break
 Ⓢ Single Phase Oil Switch
 ⎓ Underground Disconnect
 ⎓ Underground Load Break

Capacitor Bank

- ⌋ Fixed Bank
 ⌋ Switched Bank

Recloser

- Ⓡ Recloser

Sectionalizer

- Ⓢ Sectionalizer

Voltage Regulator Bank

- Ⓡ Voltage Regulator Bank

Surge Arrester

- ⚡ Surge Arrester

Light

- ⦿ Light

Span Guy

- Span Guy

Anchor Guy

- ⌋ Sidewalk
 ⌋ Standard

Overhead Primary Cable

- Single Phase (1 Dash)
 ---- Two Phase (2 Dashes)
 ----- Three Phase (3 Dashes)

Underground Primary Cable

- ... Single Phase (1 Dot)
 ... Two Phase (2 Dots)
 ... Three Phase (3 Dots)

Overhead Secondary Cable

- Overhead Secondary Cable

Underground Secondary Cable

- Underground Secondary Cable

Transmission Cable

- OH Transmission
 — UG Transmission

Poles

- Pole

Riser

- ⊙ Riser

Pad Structure

- Pad
 □ Transclosure

Underground Vaults

- Ⓢ Street Light Vault
 Ⓢ Secondary Vault
 Ⓢ Primary Termination Vault
 Ⓢ Primary Pullbox

Pad Mounted Gear Cabinet

- Ⓢ Fuse Cabinet
 Ⓢ Switch Cabinet
 Ⓢ Termination Cabinet
 Ⓢ Secondary Cabinet

Work Location

- ⬡ Work Location

Work Request Polygon

- None
 □ Initiated
 □ In Design
 □ In Construction
 □ Complete

Conduit

- Transmission
 — Primary
 — Secondary
 — Light
 — Fiber

Network Junctions

- ★ Network Junctions

Electric Service Location

- All Other Meters
 Ⓢ Temp Pole Meter

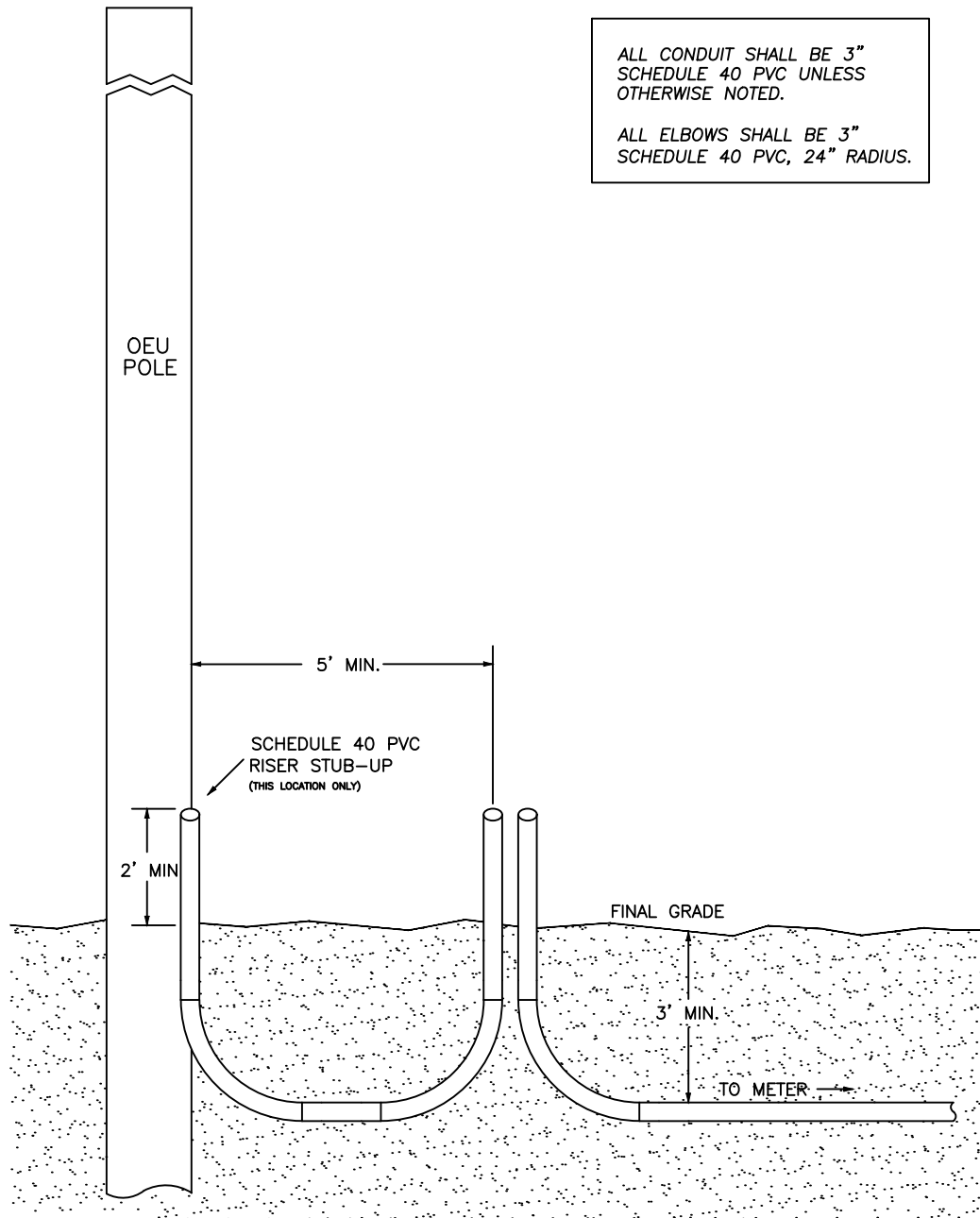
Open Point

- Ⓢ OH Open Point (DDE)
 Ⓢ UG Open Point

Work Order Colors

- ▨ Existing Features
 ▨ Install Features
 ▨ Remove Features
 ▨ Leave Features
 ▨ Replace Features
 ▨ Transfer Install
 ▨ Transfer Remove

OCALA ELECTRIC UTILITY STANDARDS



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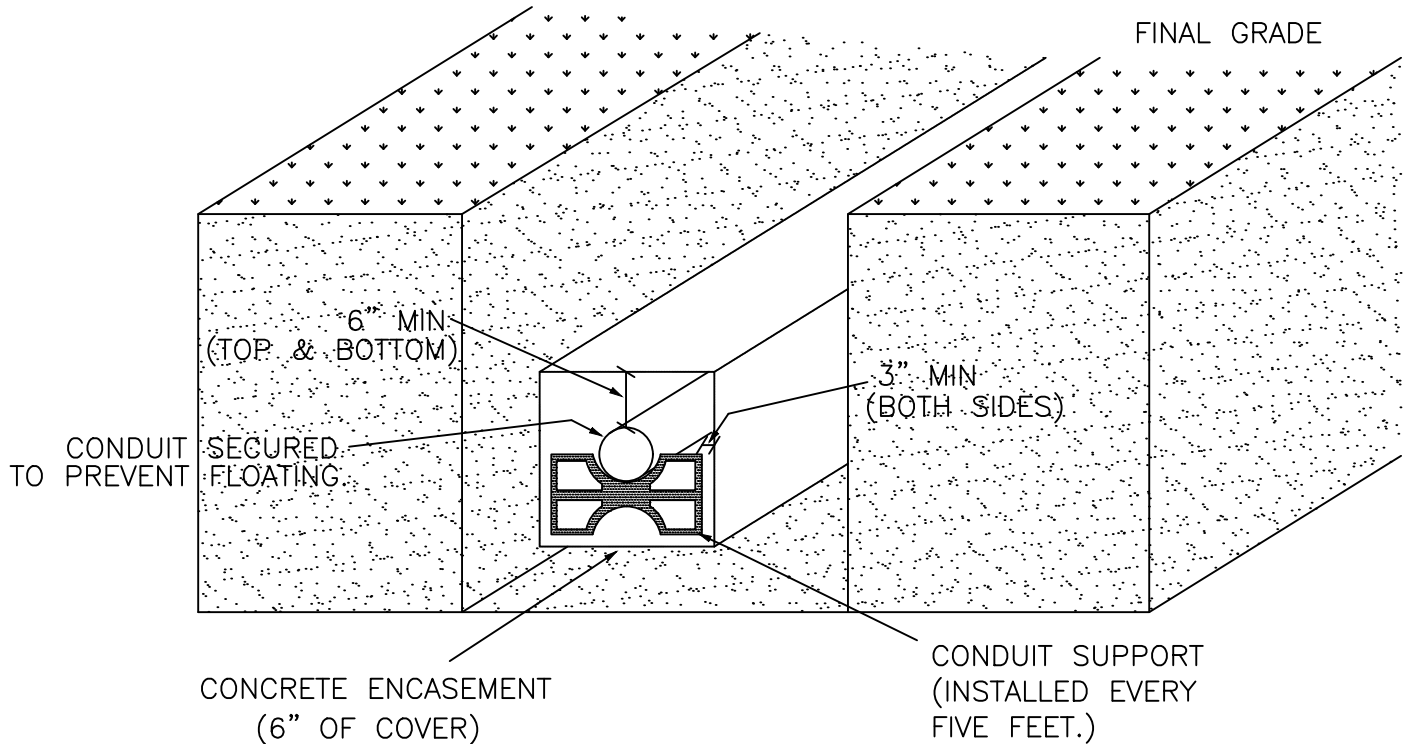
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SECONDARY/SERVICE RISER STUB-UP INSTALLATION—EXHIBIT 1C

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NOTE: CONDUIT DEPTH IS TYPICALLY 36" BELOW FINAL GRADE.

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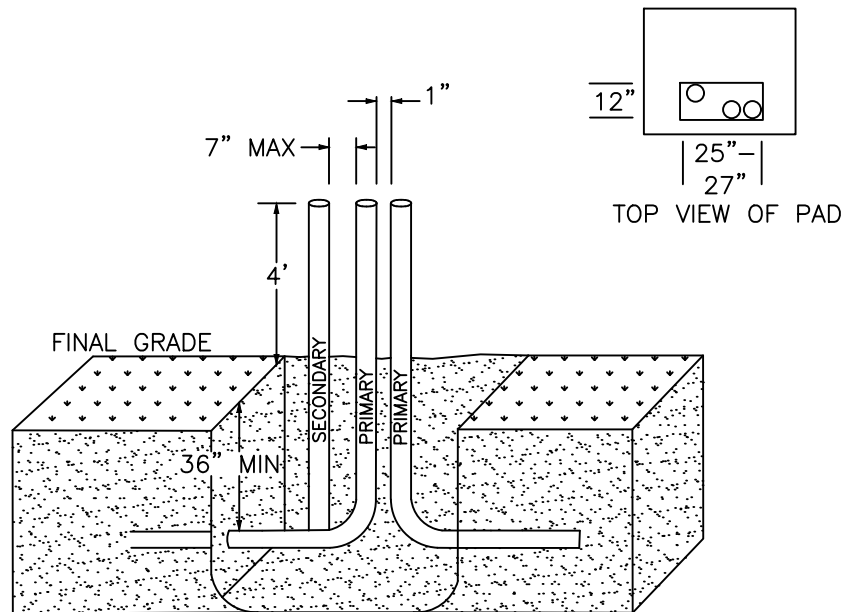
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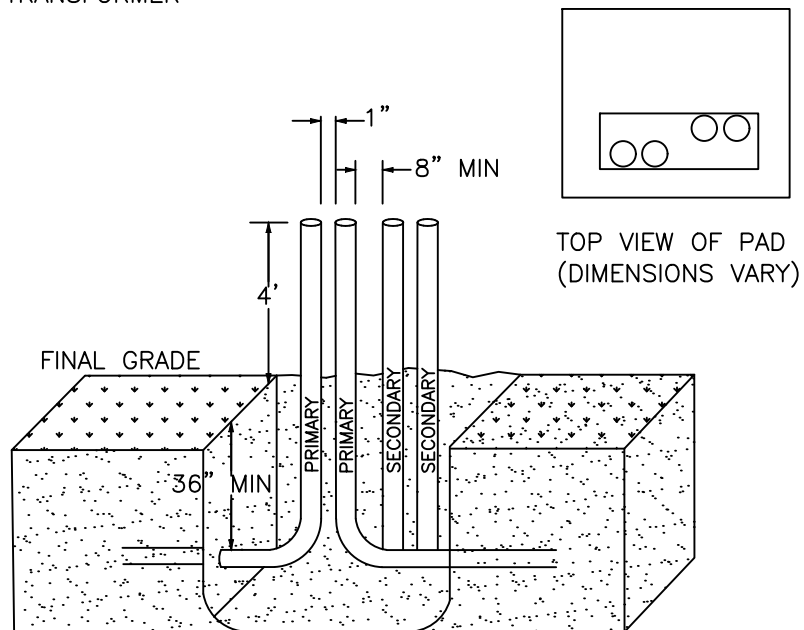
CONCRETE ENCASEMENT AND SUPPORT PLACEMENT—EXHIBIT 2

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SINGLE-PHASE TRANSFORMER LOCATION



THREE-PHASE TRANSFORMER LOCATION



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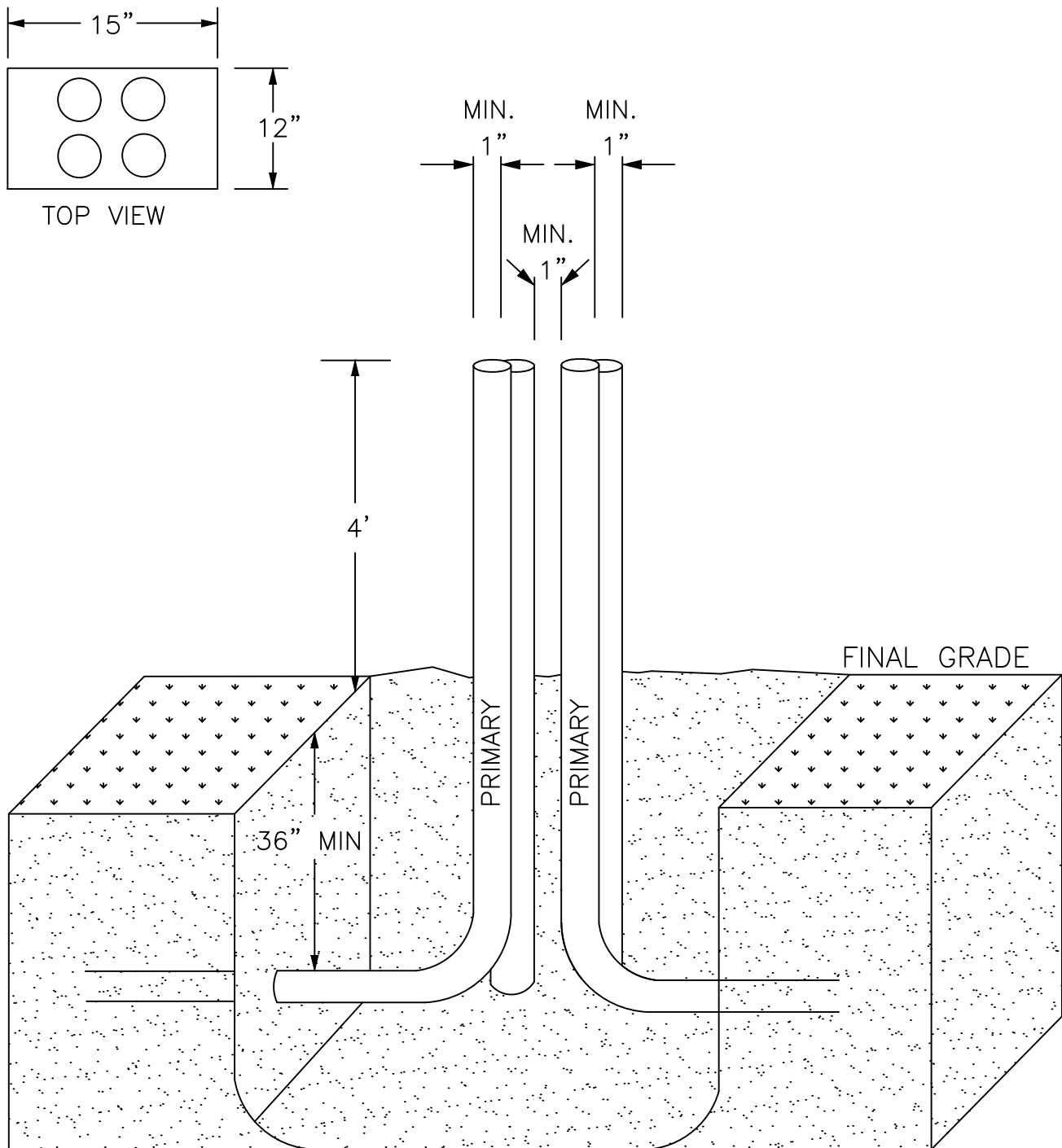
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TYPICAL 1 ϕ & 3 ϕ TRANSFORMER LOCATION—EXHIBIT 4C

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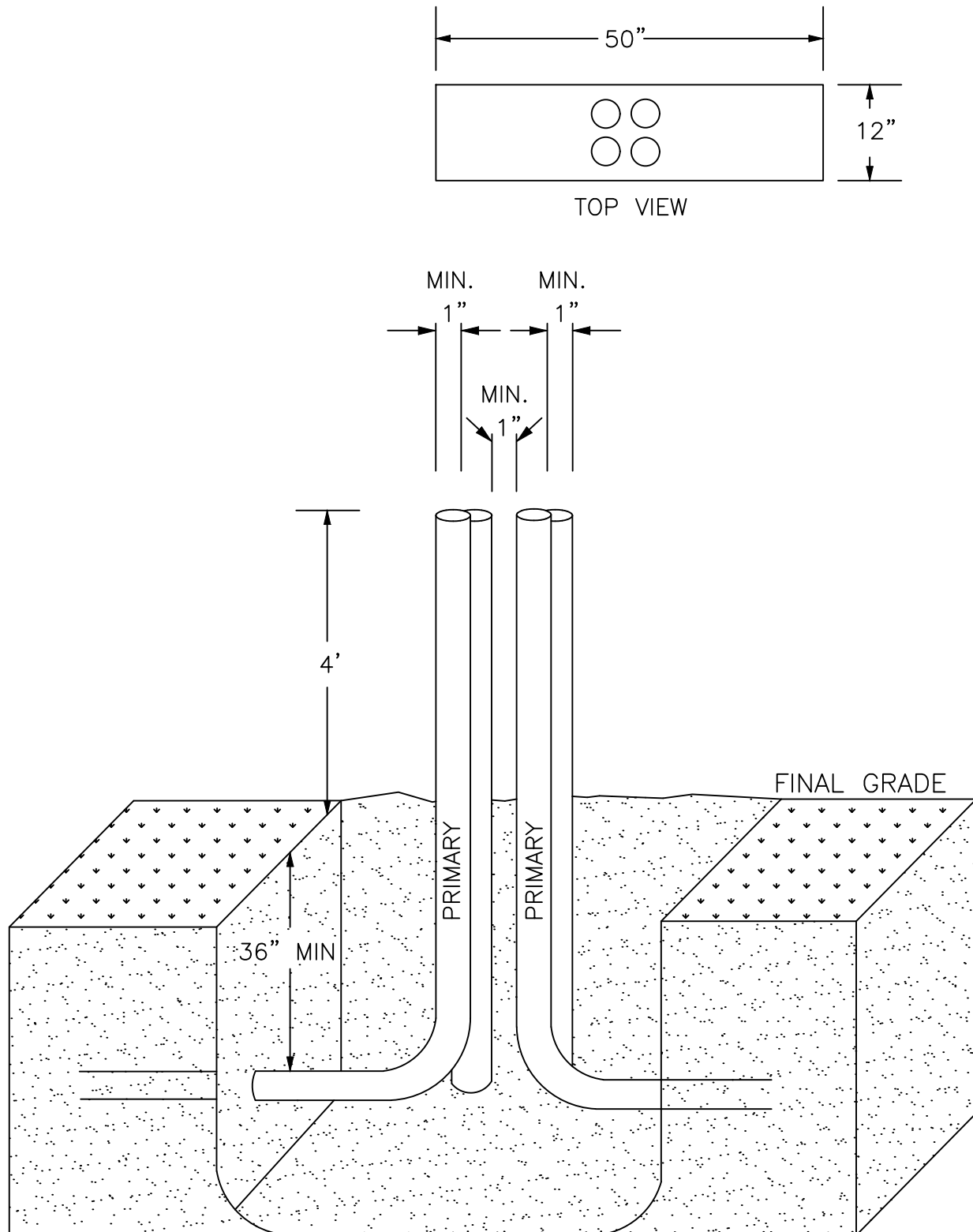
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TYPICAL 1Ø PRIMARY CABINET LOCATION—EXHIBIT 5

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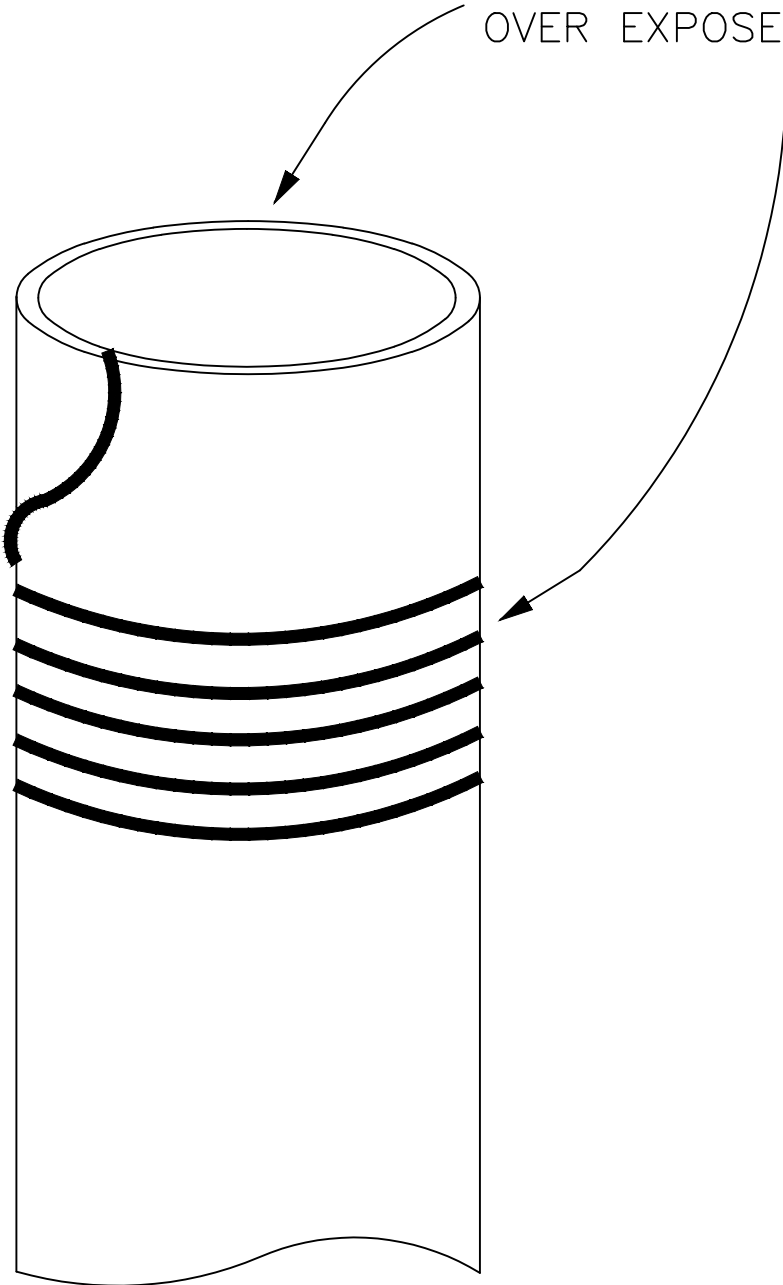
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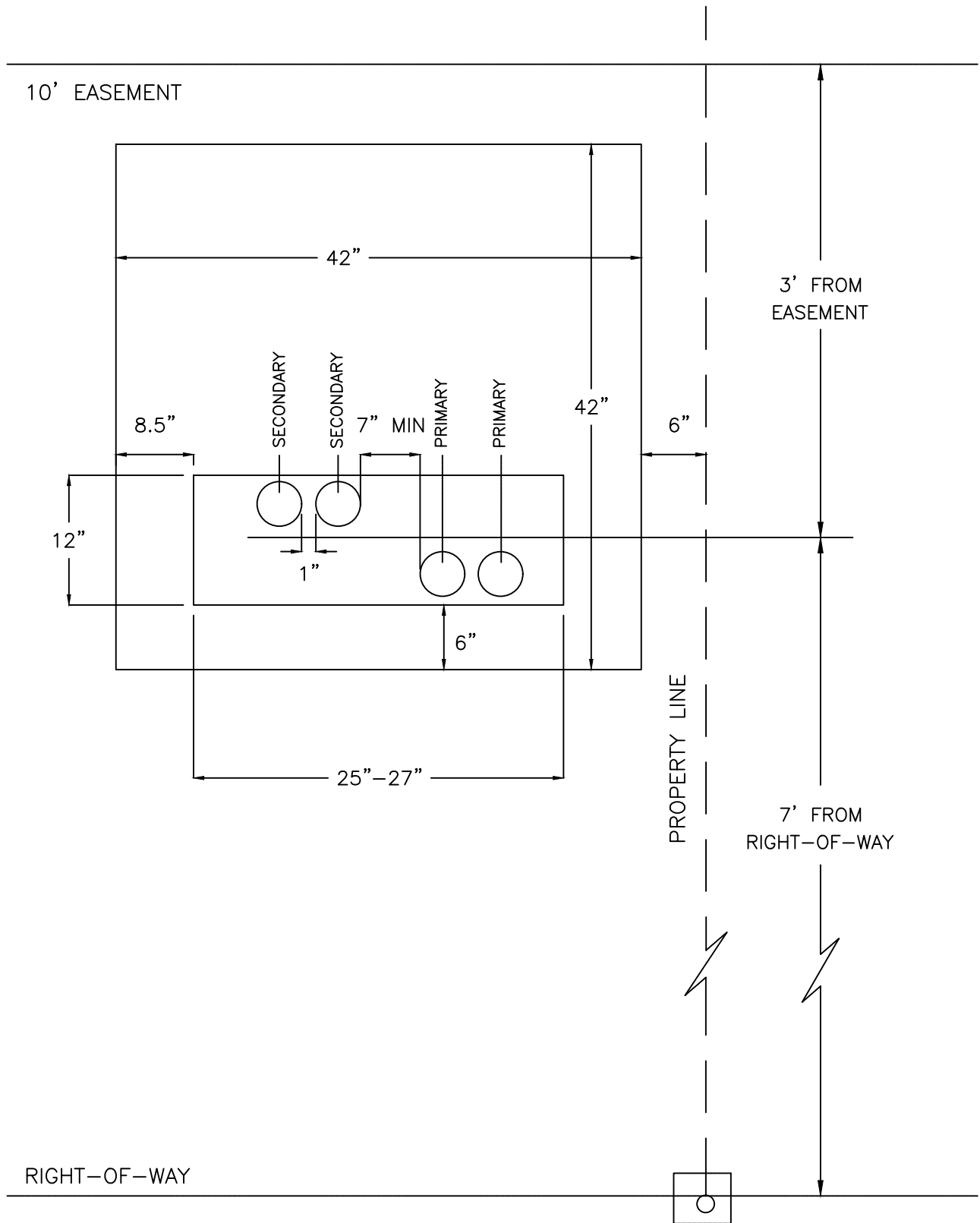
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TYPICAL 3Ø PRIMARY CABINET LOCATION—EXHIBIT 6

NOTE: DUCT TAPE SHALL BE APPLIED DOUBLE-THICKNESS OVER THE OPENING AND OVER EXPOSED STRING.



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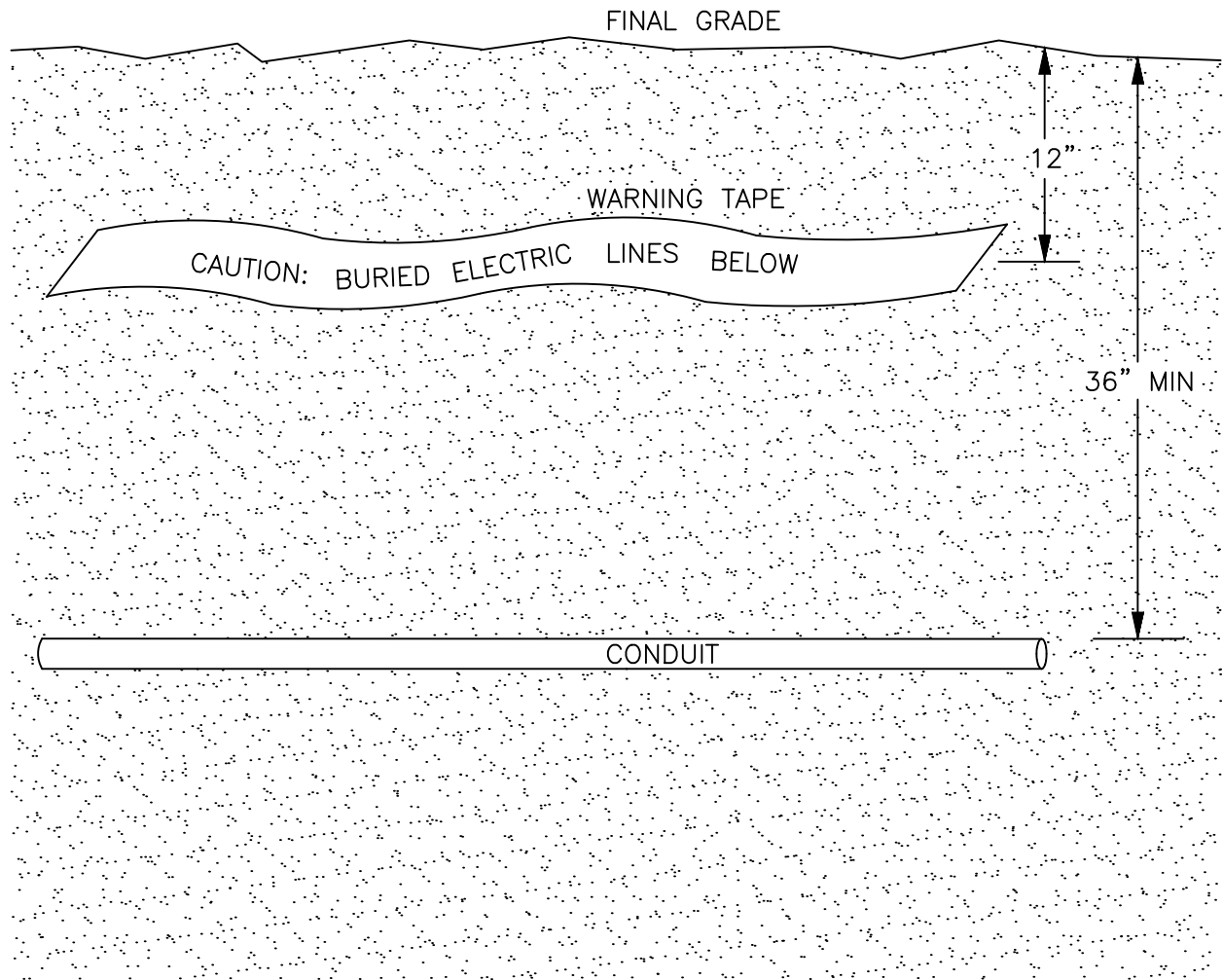
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1Ø TRANSFORMER CONDUIT PLACEMENT IN EASEMENT—EXHIBIT 8

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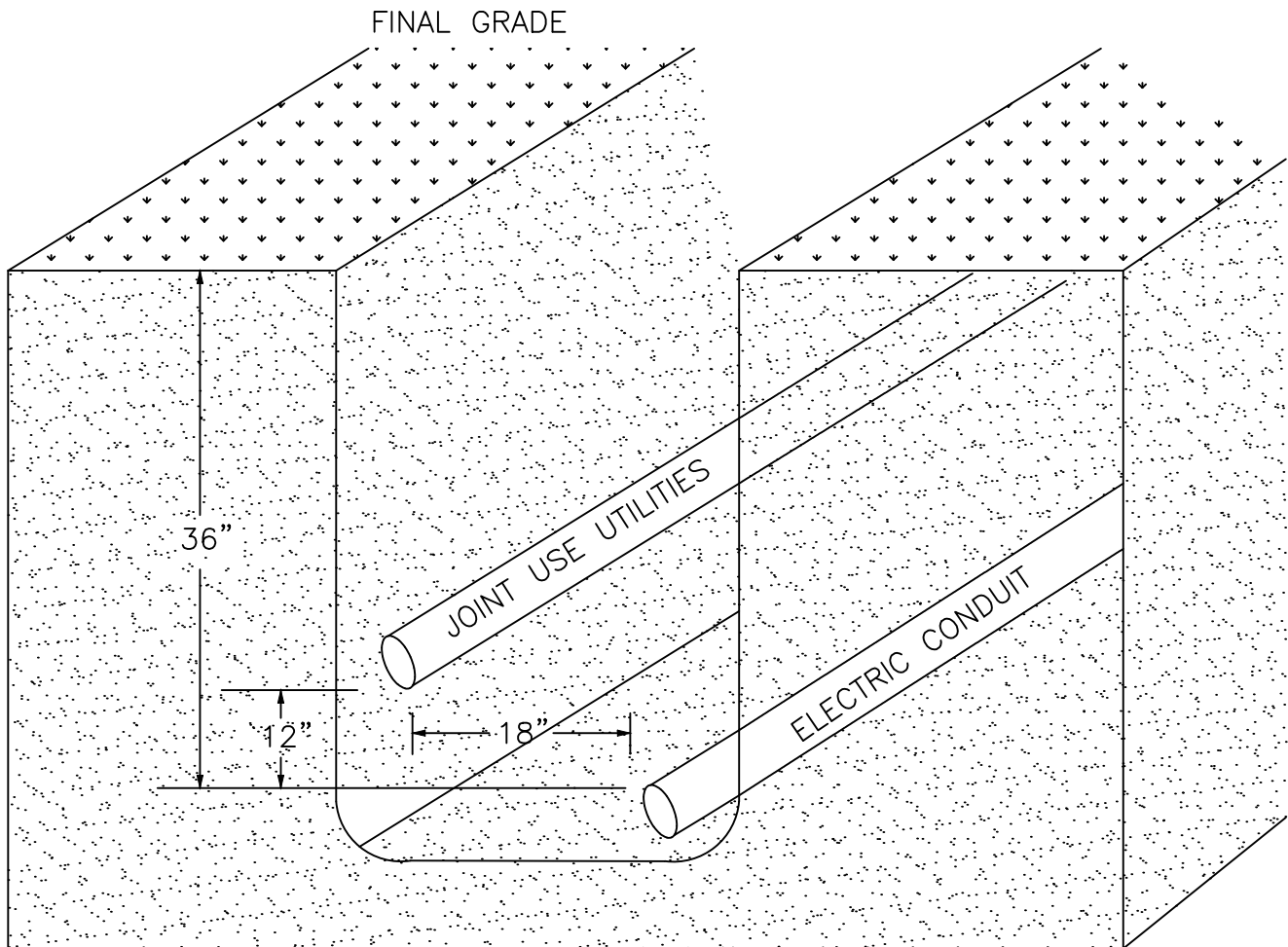
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WARNING TAPE PLACEMENT—EXHIBIT 9

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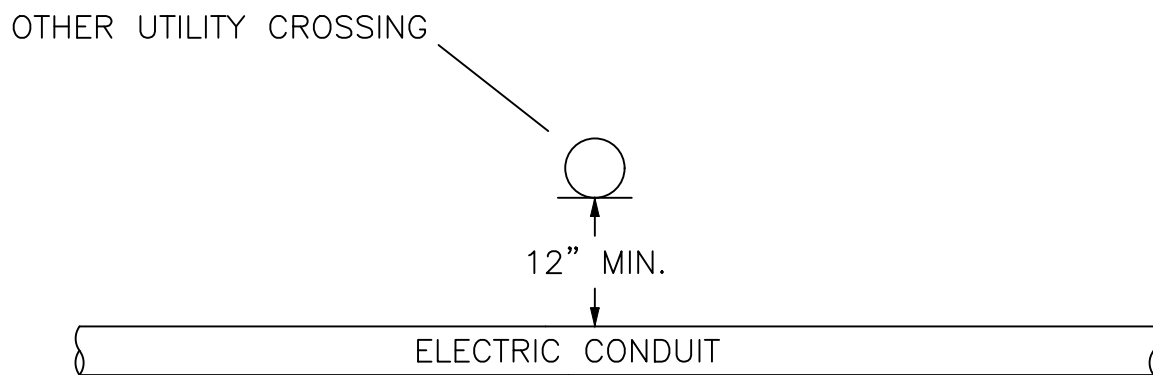
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CONDUIT CLEARANCES (JOINT USE TRENCH)–EXHIBIT 10

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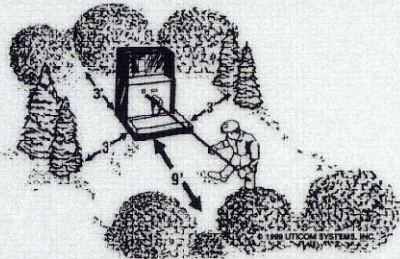

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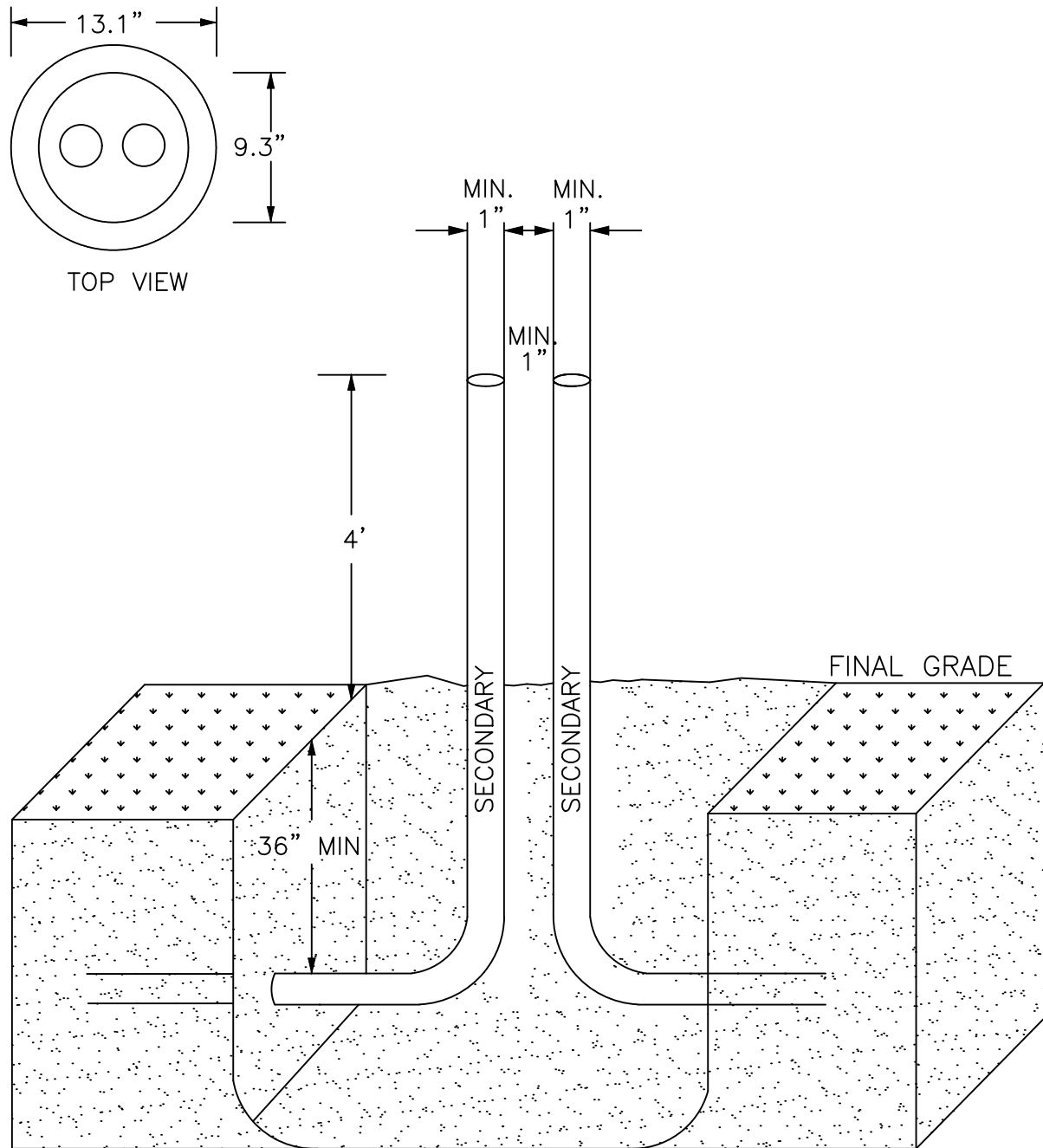
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MINIMUM VERTICAL CLEARANCE AT CROSSINGS—EXHIBIT 11

<p>⚠ WARNING</p>  <p>Hazardous voltage inside. Keep Out! May shock, burn or cause death.</p> <p>If open or unlocked, immediately call OCALA ELECTRIC UTILITY 352-351-6666</p>	<p>Energized Electrical Equipment</p>  <p>We need room to work safely on this device. Please keep shrubs and structures 9 feet from the side with doors and 3 feet from other sides.</p> <p>Obstructions may be damaged or removed during service restoration or maintenance.</p>
 <p>Before Digging Call 352-351-6650 For Location of Underground Cable</p> <p>U6075W-OEU</p>	

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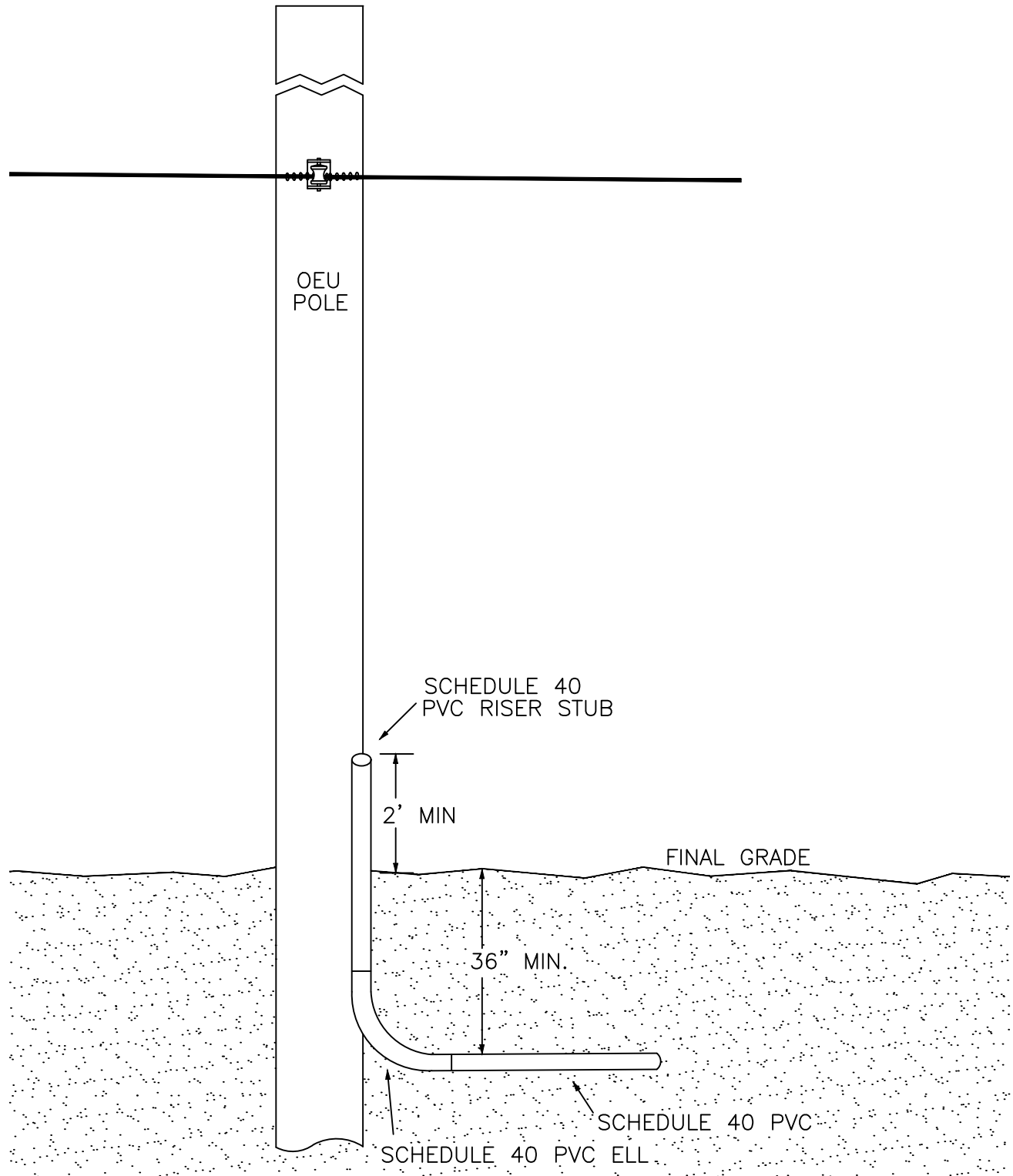
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TYPICAL STREET LIGHT VAULT LOCATION—EXHIBIT 13

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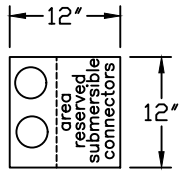
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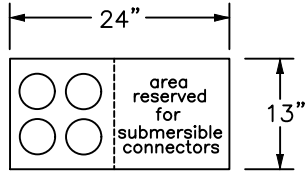
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PRIMARY RISER STUB-UP INSTALLATION-EXHIBIT 14

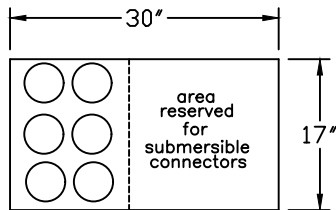
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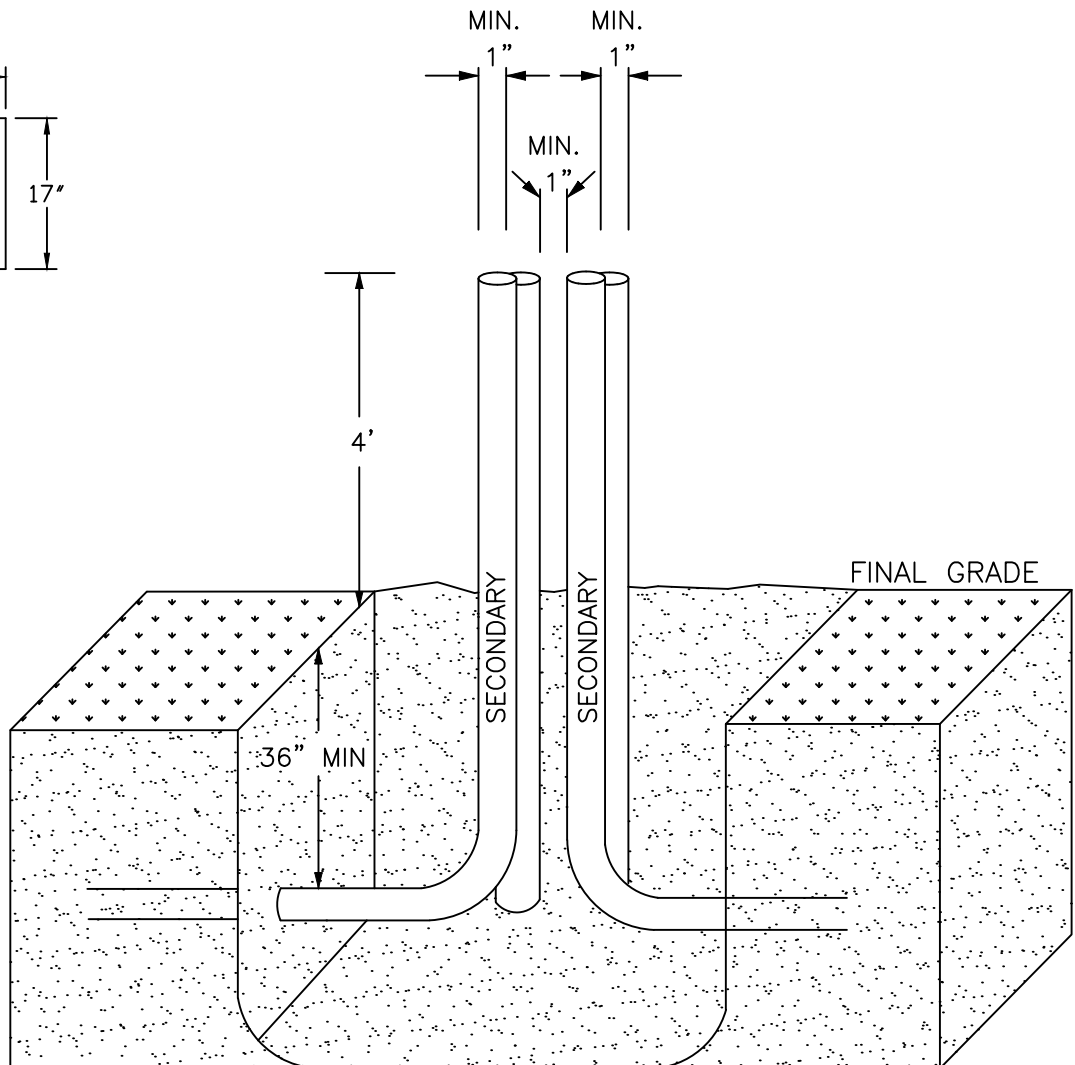
TOP VIEW



TOP VIEW



TOP VIEW



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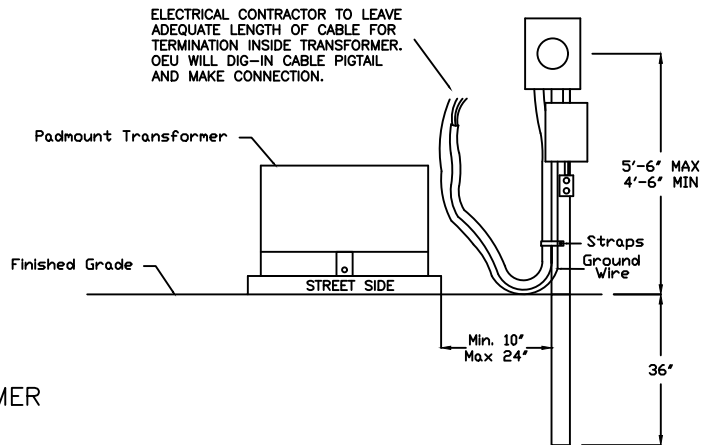
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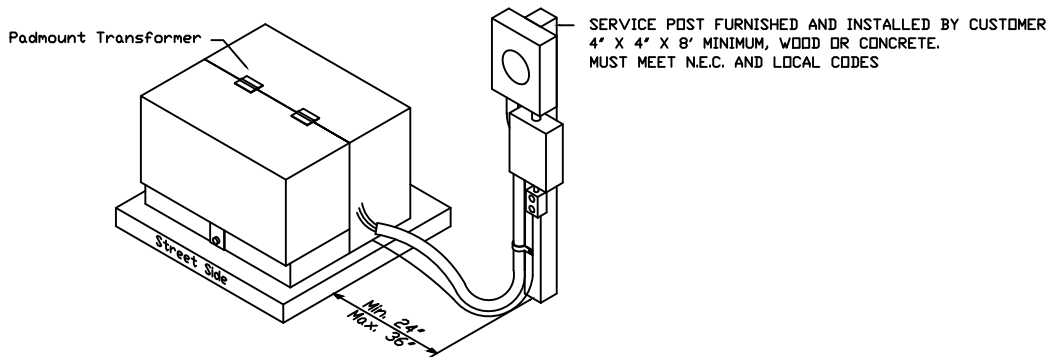
TYPICAL SECONDARY VAULT LOCATION—EXHIBIT 15

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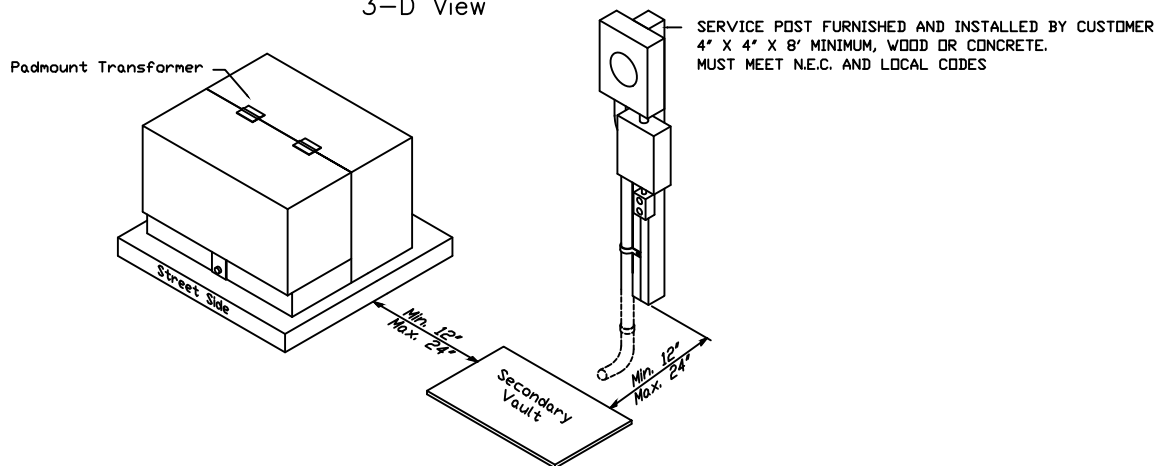
TEMP AT TRANSFORMER
Front View



TEMP AT TRANSFORMER
3-D View



TRANSFORMER + SECONDARY VAULT
3-D View



NOTES:

1. CABLE LOCATION REQUIRED PRIOR TO INSTALLATION OF TEMPORARY CONSTRUCTION POLE. CALL 48 HOURS IN ADVANCE.
2. OEU WILL MAKE FINAL CONNECTION OF CUSTOMER'S TEMP SERVICE CABLE IN TRANSFORMER OR SECONDARY VAULT.
3. DO NOT PULL TEMP SERVICE CABLE INTO TRANSFORMER THROUGH SERVICE STUB-OUTS.

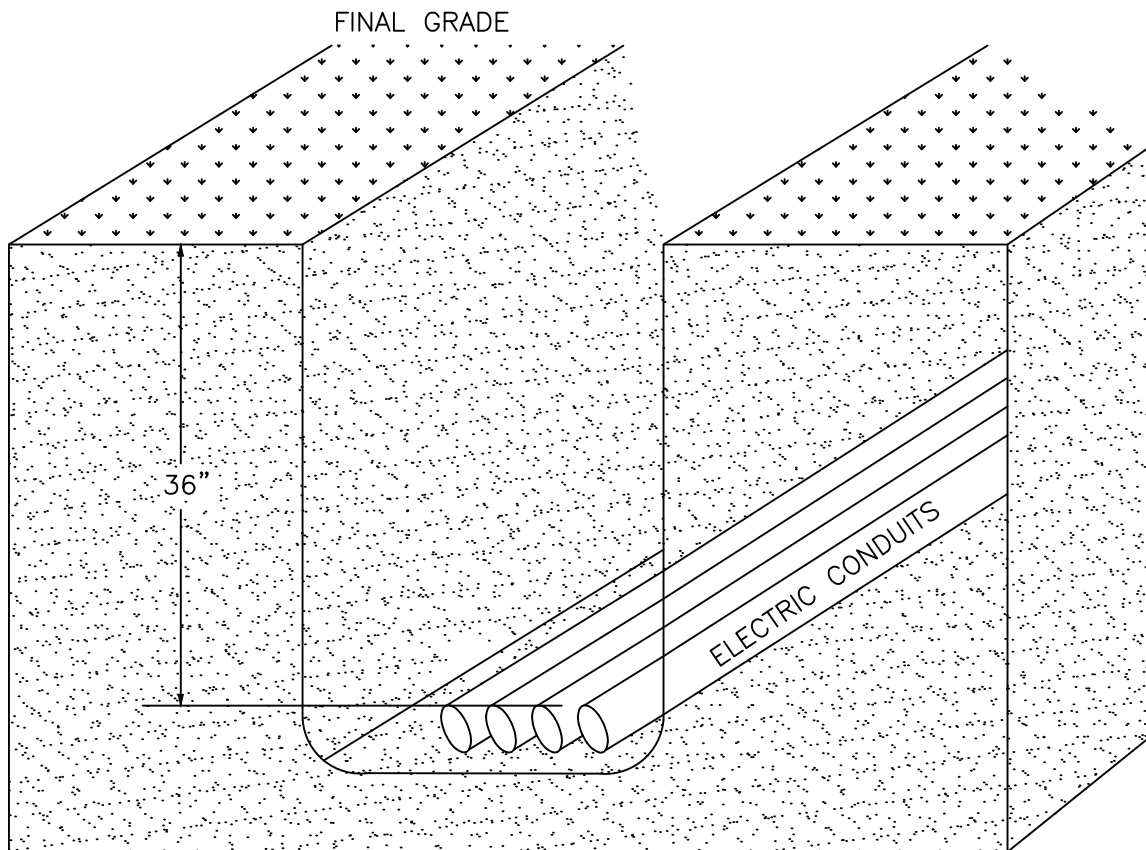
REVISED DATE: 9/15/20

REVISED BY: FRANK BROWN

APPROVED BY: RANDY HAHN

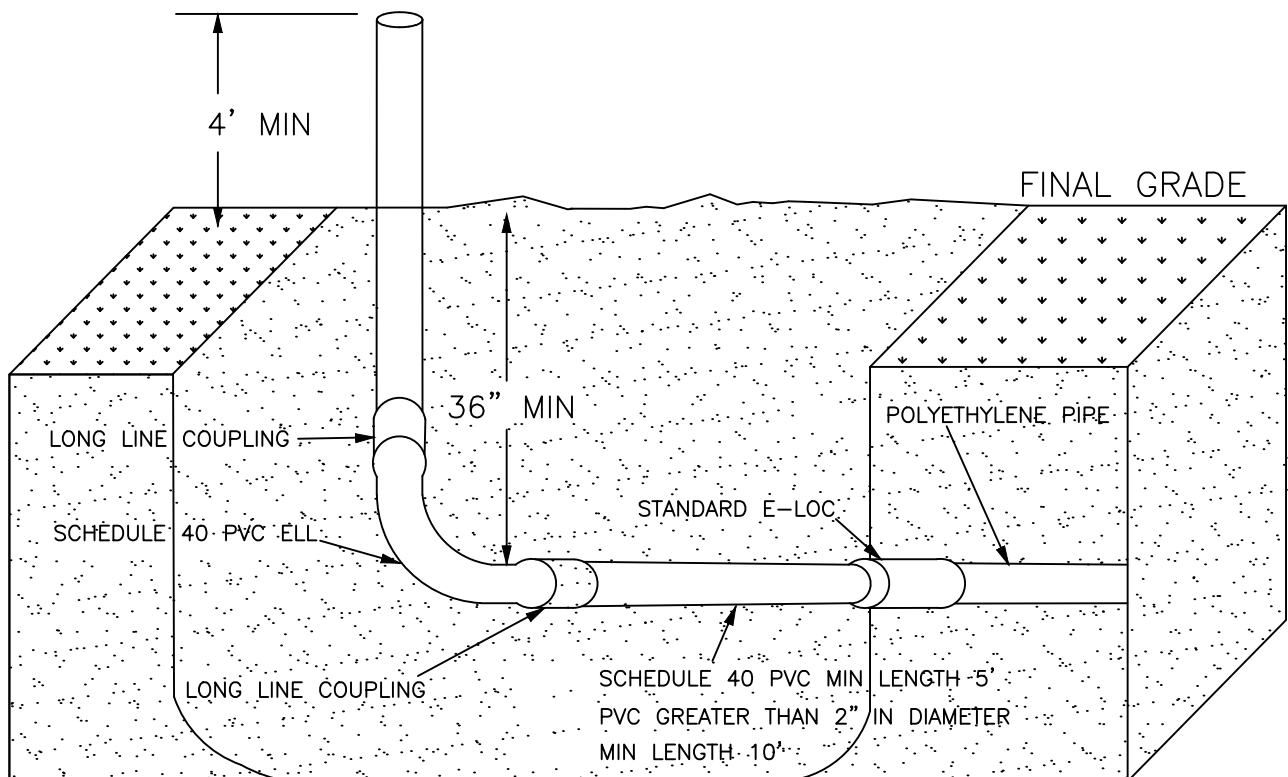
COMMERCIAL CONDUIT POLICY

TEMP SERVICE AT TRANSFORMER/SECONDARY VAULT-EXHIBIT 18



When more than one conduit is being installed in a trench, no stacking of conduits is permitted. All conduits must lay flat in the trench.

OCALA ELECTRIC UTILITY STANDARDS



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APPROVED BY: RANDY HAHN

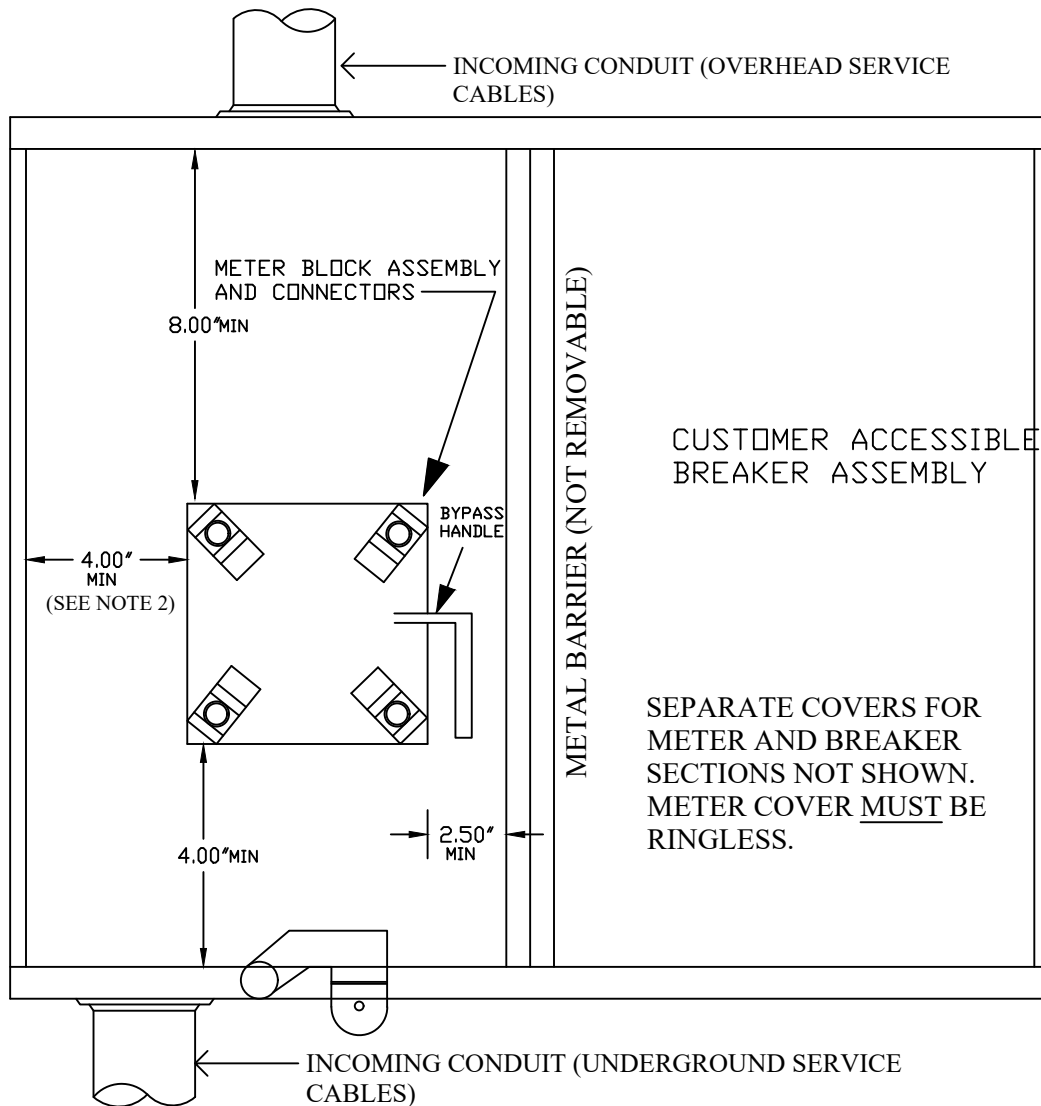
COMMERCIAL CONDUIT POLICY

TEMP CONSTRUCTION FOR JOINING BORE PIPE TO PVC—EXHIBIT 20

OCALA ELECTRIC UTILITY STANDARDS

RESIDENTIAL METER SOCKET SPACING REQUIREMENTS

3-WIRE, OH/UG SERVICE (120/240V OR 120/208V, 400 AMP OR LESS)



NOTES:

1. IF THE SOCKET IS USED FOR U.G. SERVICE AND IS BUILT WITH NO OBSTRUCTION TO FULL DEPTH ON EITHER SIDE OF THE BLOCK ASSEMBLY AREA, (SEE BOLD SQUARE IN DRAWING), MIN 4.00" CLEARANCE TO LEFT SIDE, AND MIN 2.5" CLEARANCE TO RIGHT SIDE IS ACCEPTABLE (AS SHOWN) PROVIDED 3.00" OF UNOBSTRUCTED DEPTH IS ALSO MADE AVAILABLE AT BOTH SIDES OF SOCKET BLOCKS FOR LINE SIDE CONDUCTORS.
2. IF LINE CONDUCTORS COME IN FROM THE TOP OF THE SOCKET, SIDE TO BLOCK CLEARANCE MAY BE REDUCED TO 2.5" WITH 3" OBSTRUCTION DEPTH AT THAT SIDE, AND 2.5" BLOCK CLEARANCE TO THE OTHER SIDE.
3. SOCKET MUST ACCEPT 3" SCHEDULE 40 PVC AT BOTTOM.
4. BYPASS HORNS ARE NOT ACCEPTABLE.
5. METER HOUSING MUST BE GROUNDED.
6. 5TH TERMINAL REQUIRED IF USED ON 3-WIRE 120/208V SERVICE.

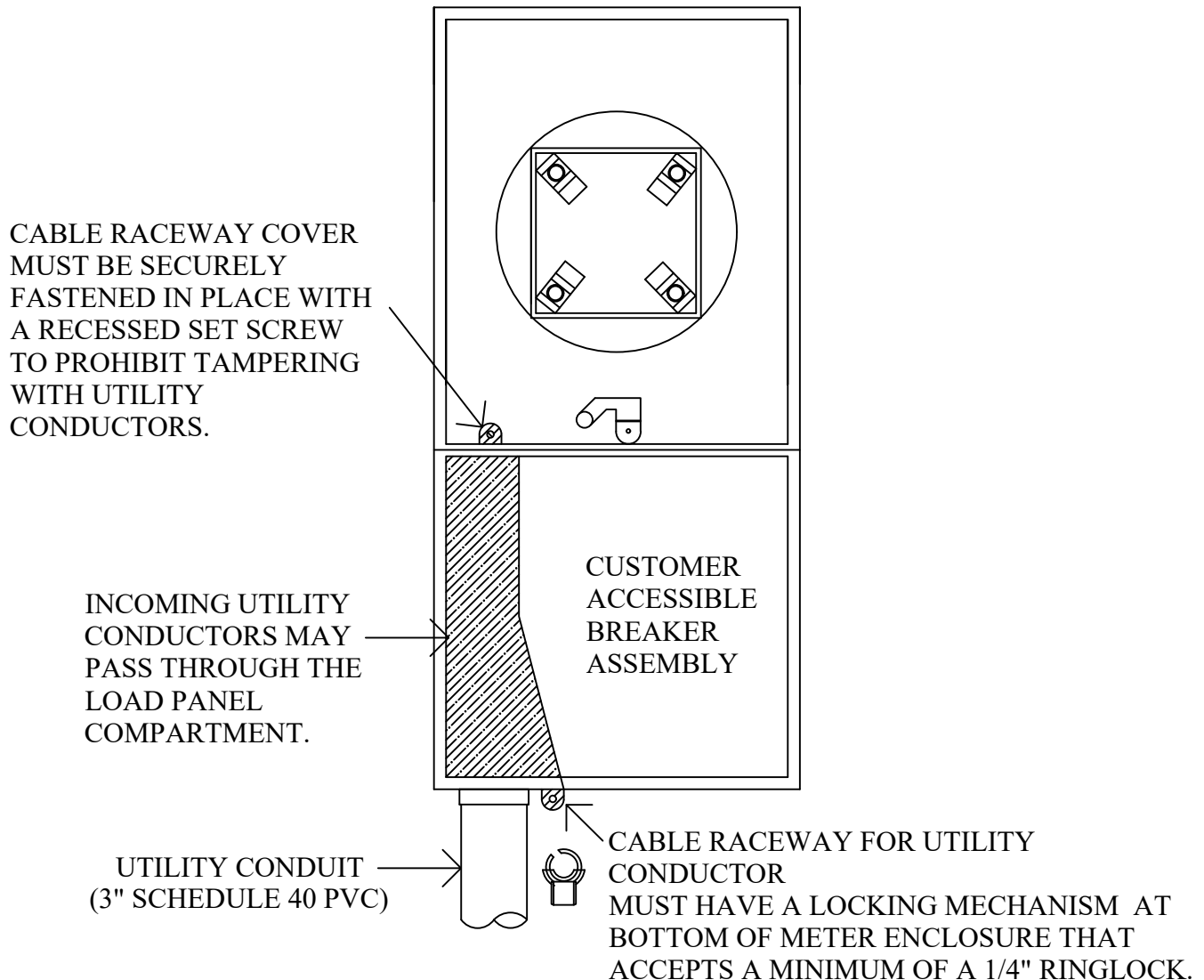
REVISED DATE: 9/15/20

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COMMERCIAL CONDUIT POLICY

ACCEPTABLE FOR UNDERGROUND SERVICE



3-WIRE, UG SERVICE, (120/240V OR 120/208V)
CUSTOMER OWNED METER SOCKET