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## ORIGINATION FORM

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### Proposed Revisions to a Standard Plans Index (Please provide all information — Incomplete forms will be returned)

**Contact Information:**

Date: July 26, 2020

Originator: Richard Stepp

Phone: (850) 414-4313

Email: richard.stepp@dot.state.fl.us

**Standard Plans:**

Index Number: 715-001

Sheet Number (s): 1

Index Title: Conventional Lighting

**Summary of the changes:**

Sheet 1: Updated Note 1 for Concrete Barrier and bridge mount. Provided additional wiring detail, a reference to 715-002, and new information of where breakaway fuse holders fit inside of pole.

Added callout and new Note 3 to explain that the top of the concrete foundation is flush with the finish grade elevation on the side nearest to traffic lane. Added vertical tolerance.

**Commentary / Background:**

Added clarifications due to industry feedback.

**Other Affected Offices / Documents:** (Provide name of person contacted)

| Yes                      | No                                  |                             |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual –        |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications –   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List –     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction –              |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance –               |

**Origination Package Includes:**

(Email or hand deliver package to Rick Jenkins)

| Yes                                 | N/A                      |                                          |
|-------------------------------------|--------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups                         |
| <input type="checkbox"/>            | <input type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/>            | <input type="checkbox"/> | Revised SPI                              |
| <input type="checkbox"/>            | <input type="checkbox"/> | Other Support Documents                  |

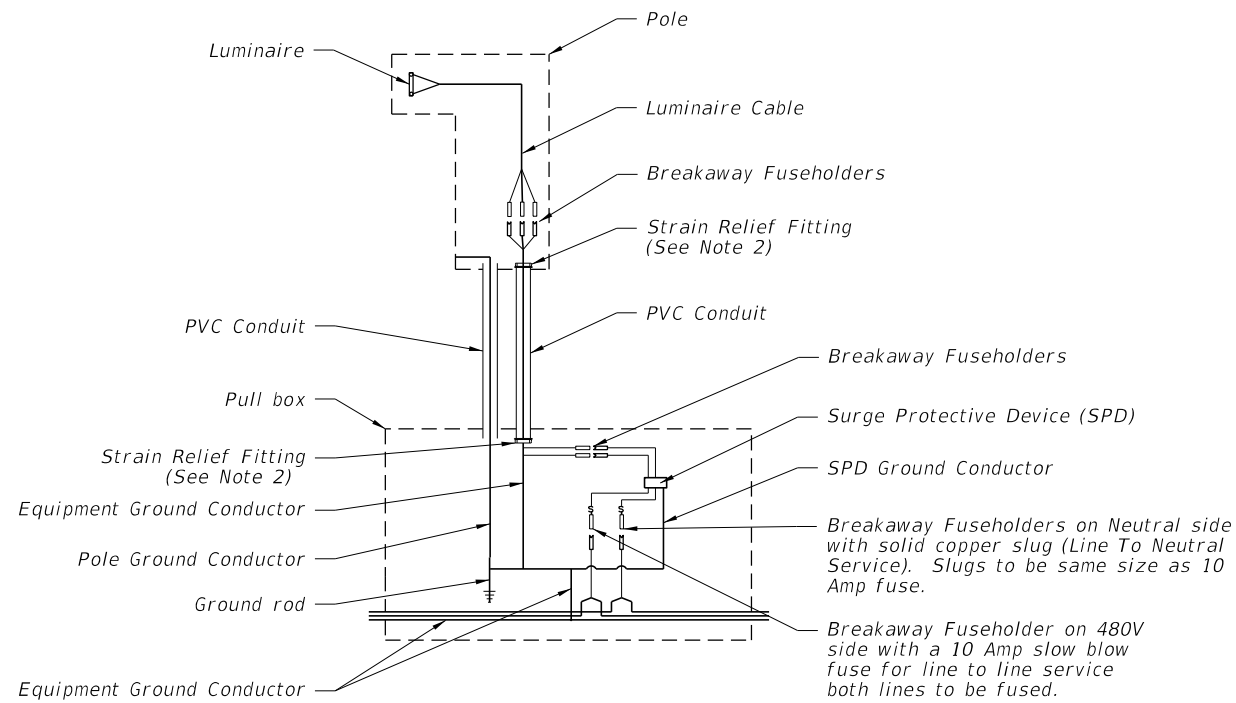
**Implementation:**

- ☐ Design Bulletin (Interim)
- ☐ DCE Memo
- ☐ Program Mgmt. Bulletin
- ☒ FY-Standard Plans (Next Release)

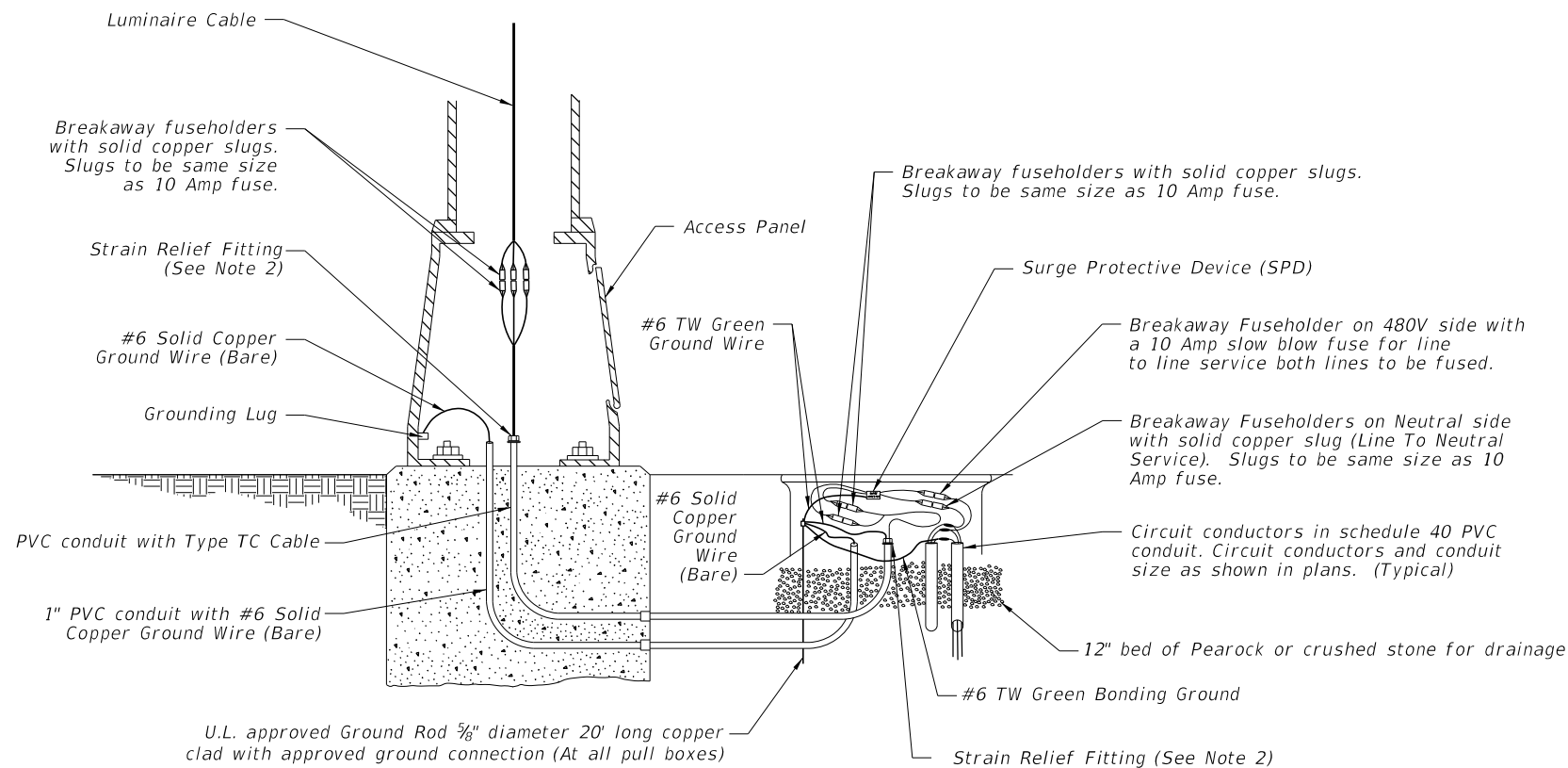
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Contact the Roadway Design Office for assistance in completing this form

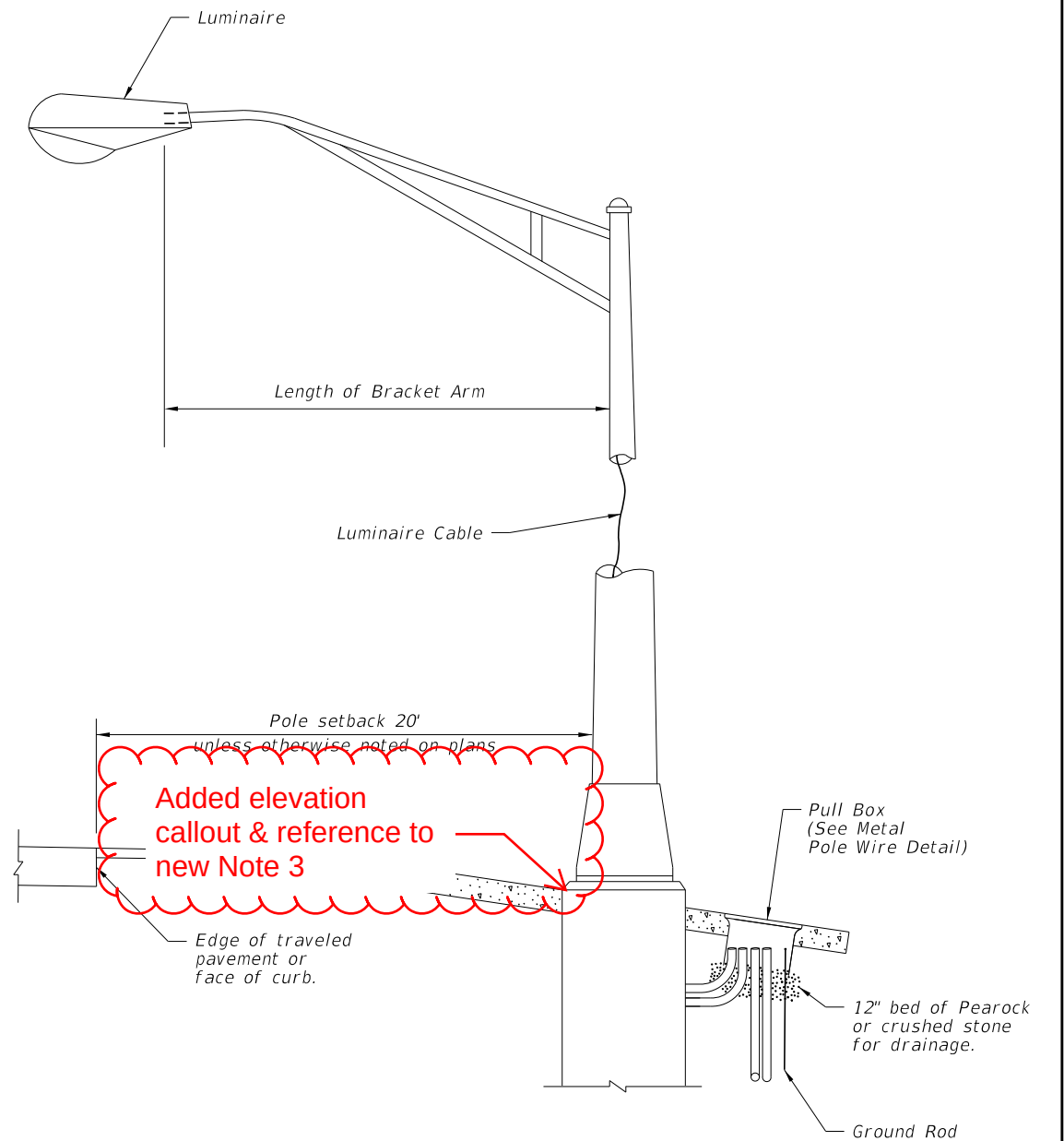
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WIRING DIAGRAM



METAL POLE WIRING DETAIL



METAL POLE DETAIL

Added additional language to clarify wiring for 715-002 including breakaway fuse holder location

NOTES:

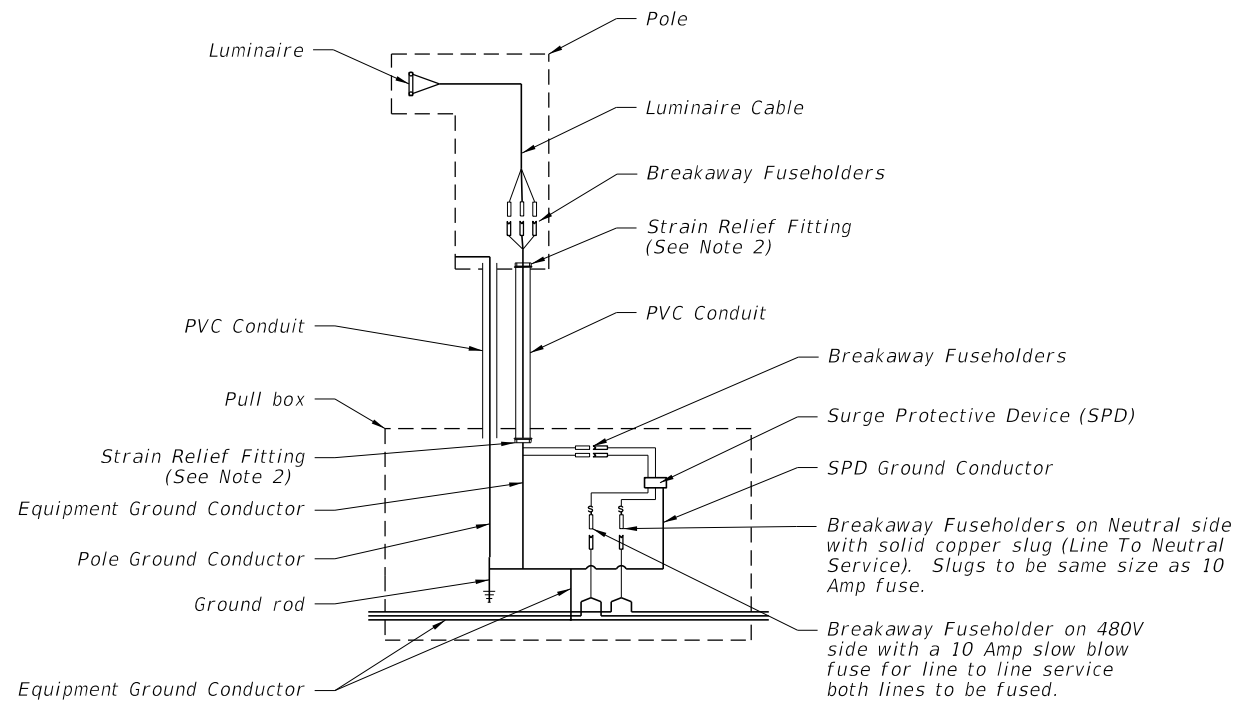
1. Barrier wall or bridge mounted poles: The wiring shall be in accordance with Specification 992.
2. Provide cable length to remove fuseholders from transformer base, pole base or pullbox for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders if the pole breaks away. Pull excess cable into pull box tighten strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.

Added new Note 3 for required foundation elevation.

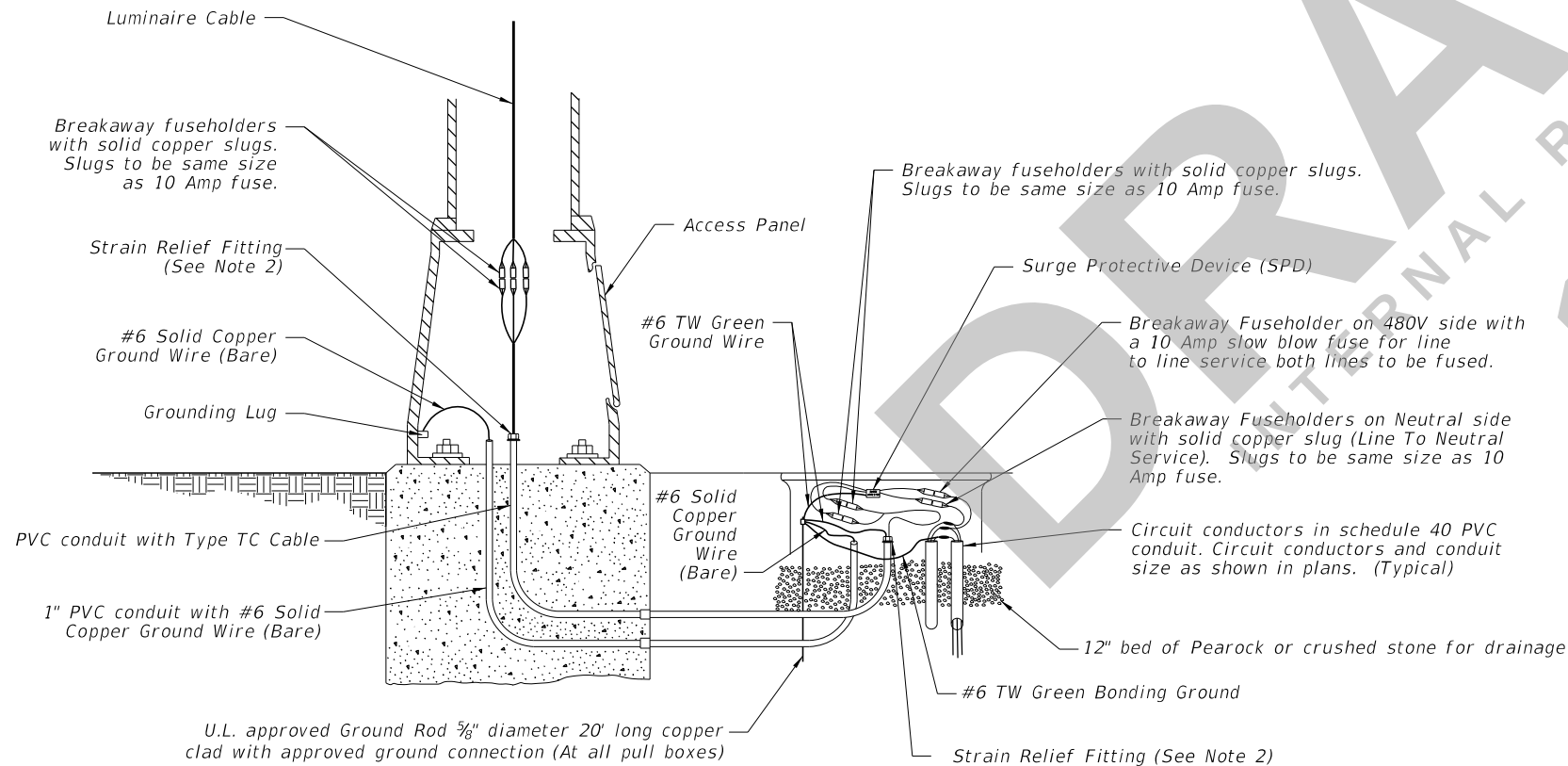
WIRING DETAILS

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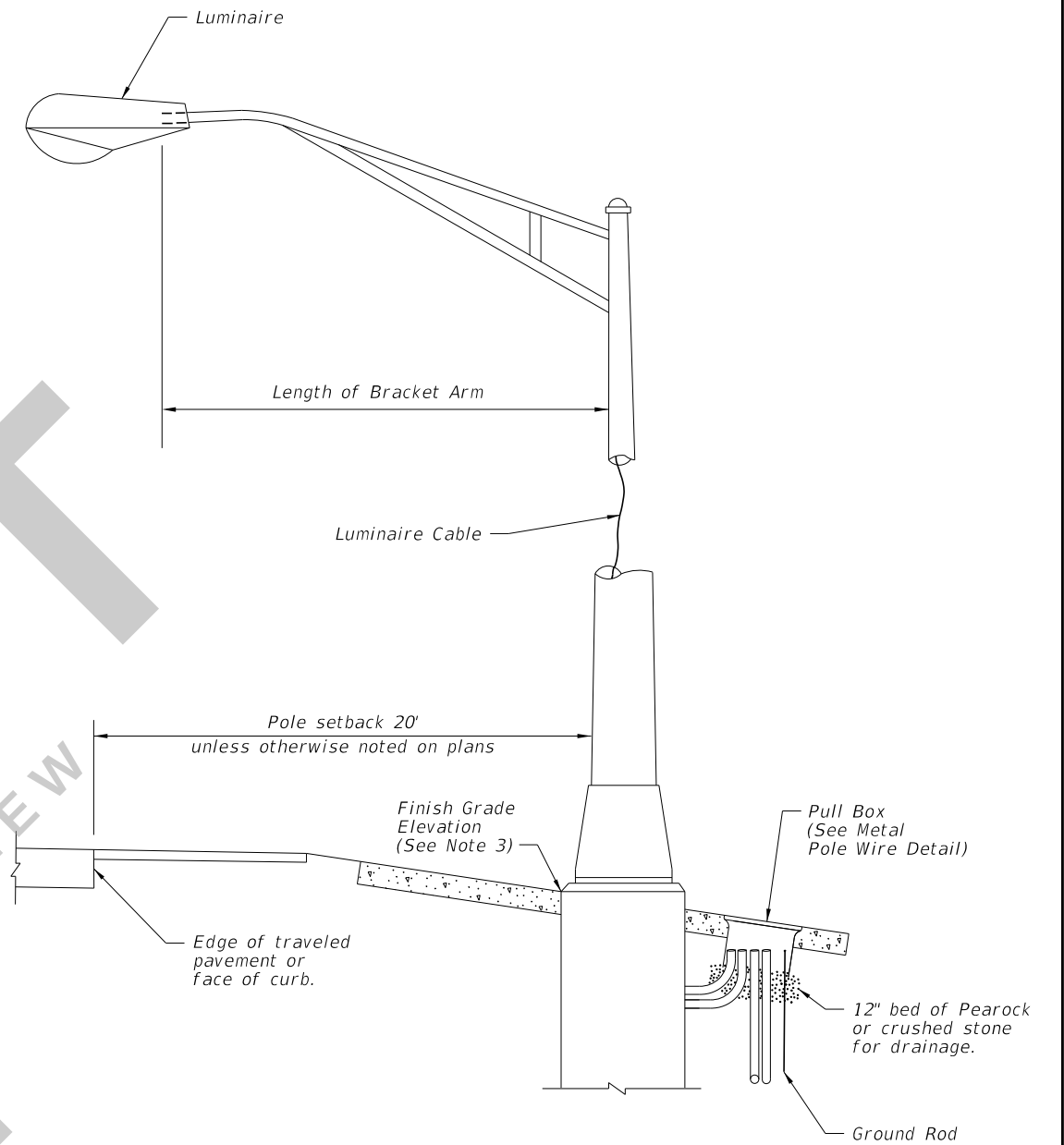
| LAST REVISION | DESCRIPTION: | FY 2020-21 STANDARD PLANS | CONVENTIONAL LIGHTING | INDEX   | SHEET  |
|---------------|--------------|---------------------------|-----------------------|---------|--------|
| 11/01/20      |              | FDOT                      |                       | 715-001 | 1 of 3 |



WIRING DIAGRAM



METAL POLE WIRING DETAIL



METAL POLE DETAIL

NOTES:

1. Concrete Barrier and Bridge Mounted Poles: Place wiring system following conduit layouts and requirements of Index 715-002. Follow additional requirements of Specification 992. For wiring and devices shown inside of pull boxes on this sheet, place inside of embedded junction boxes instead. Place the vertical breakaway fuseholders inside the pole, at the handhole location.

2. Provide enough cable length to allow for removal of fuseholders from the transformer base, pole base, or pullbox for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders in breakaway pole designs. Pull excess cable into pull box tighten strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.

3. Align concrete foundation with the finish grade elevation on the side nearest the traffic lane. Relative to the finish grade, the vertical tolerance is -0 inch, +2 inch.

WIRING DETAILS

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| LAST REVISION | DESCRIPTION: | FY 2021-22 STANDARD PLANS | CONVENTIONAL LIGHTING | INDEX   | SHEET  |
|---------------|--------------|---------------------------|-----------------------|---------|--------|
| 11/01/20      |              |                           |                       | 715-001 | 1 of 3 |