

DESCRIPTION OF WORK:

| SHEET<br>COUNT | DRAWING<br>NUMBER | DRAWING<br>TITLE                       |
|----------------|-------------------|----------------------------------------|
| 1 OF 21        | E0-1              | LOCATION MAP, & DESCRIPTION OF WORK    |
| 2 OF 21        | E0-2              | TYPICAL DETAILS AND NOTES              |
| 3 OF 21        | E0-2A             | TYPICAL DETAILS AND NOTES              |
| 4 OF 21        | E0-3              | LEGEND, CONSTRUCTION & GENERAL NOTES   |
| 5 OF 21        | E1-1              | FIBER OPTIC ROUTING PLAN               |
| 6 OF 21        | E1-2              | FIBER OPTIC ROUTING PLAN               |
| 7 OF 21        | E1-3              | FIBER OPTIC ROUTING PLAN               |
| 8 OF 21        | E1-4              | FIBER OPTIC ROUTING PLAN               |
| 9 OF 21        | E1-5              | FIBER OPTIC ROUTING PLAN               |
| 10 OF 21       | E1-6              | FIBER OPTIC ROUTING PLAN               |
| 11 OF 21       | E1-7              | FIBER OPTIC ROUTING PLAN               |
| 12 OF 21       | E1-8              | FIBER OPTIC ROUTING PLAN               |
| 13 OF 21       | E1-9              | FIBER OPTIC ROUTING PLAN               |
| 14 OF 21       | E1-10             | FIBER OPTIC ROUTING PLAN               |
| 15 OF 21       | E1-11             | FIBER OPTIC ROUTING PLAN               |
| 16 OF 21       | E1-12             | FIBER OPTIC ROUTING PLAN               |
| 17 OF 21       | E1-13             | FIBER OPTIC ROUTING PLAN               |
| 18 OF 21       | E1-14             | FIBER OPTIC ROUTING PLAN               |
| 19 OF 21       | E2-1              | 128 HEDGEROW AVE MLS – ENLARGED PLAN   |
| 20 OF 21       | E2-2              | SWITZERLAND SUBSTATION – ENLARGED PLAN |
| 21 OF 21       | E3-1              | LONGLEAF PINE PKWY AT GREENBRIAR RD    |

1. PROJECT OBJECTIVE IS UPGRADING JEA'S FIBER OPTIC COMMUNICATION SYSTEM. THIS PROJECT CONNECTS THE HEDGEROW MASTER LIFT STATION (MLS), TO THE SWITZERLAND SUBSTATION. THE INSTALLATION WILL PRIMARILY BE NEW UNDERGROUND CONDUIT INSTALLATION ALONG THE LONGLEAF PINE PARKWAY EASTERN RIGHT-OF-WAY. WITH APPROXIMATELY 1600' OVERHEAD NORTH OF GREENBRIAR ROAD AND THE USE OF EXISTING CONDUIT NEARING THE SUBSTATION.
2. INSTALLATION METHODS WILL INCLUDE HORIZONTAL DIRECTIONAL DRILLING, MACHINE TRENCHING, PLOWING AND HAND DIGGING. EQUIPMENT REQUIRED WILL BE TRENCHING/PLOWING, HDD MACHINES, CABLE DOLLY TRUCKS AND VARIOUS SUPPORT/TOW VEHICLES, ALONG THE LENGTH OF THE PROJECT WITH HAND AND MACHINE DIGGING AT MANHOLE LOCATIONS.
3. INSTALLATION INCLUDES THE ADDITION OF FIBER OPTIC MANHOLES SPACED AS NEEDED ALONG THE MAJORITY OF ENTIRE ROUTE.
4. ADDITIONAL GUIDELINES AND REQUIREMENTS ARE LISTED ON DRAWING E0-3.

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2018-2019 FDOT DESIGN STANDARDS ATTACHED FOR REFERENCE ONLY

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COMPLYING WITH NECESSARY STANDARDS

| DESIGN<br>STANDARDS<br>INDEX | STANDARD<br>PLANS<br>INDEX | NUMBER<br>OF<br>SHEETS | INDEX TITLE                                                                       |
|------------------------------|----------------------------|------------------------|-----------------------------------------------------------------------------------|
| 600                          | 102-600                    | 12                     | GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES                        |
| 601                          | 102-601                    | 1                      | TWO-LANE, TWO-WAY, WORK OUTSIDE SHOULDER                                          |
| 602                          | 102-602                    | 1                      | TWO-LANE, TWO-WAY, WORK ON SHOULDER                                               |
| 603                          | 102-603                    | 3                      | TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY                                     |
| 604                          | 102-604                    | 1                      | TWO-LANE, TWO-WAY, WORK IN INTERSECTION                                           |
| 605                          | 102-605                    | 1                      | TWO-LANE, TWO-WAY, WORK NEAR INTERSECTION                                         |
| 607                          | 102-607                    | 1                      | TWO-LANE, TWO-WAY, MOBILE OPERATION, WORK ON SHOULDER, WORK WITHIN THE TRAVEL WAY |
| 611                          | 102-611                    | 1                      | MULTILANE, WORK OUTSIDE SHOULDER                                                  |
| 612                          | 102-612                    | 1                      | MULTILANE, WORK ON SHOULDER                                                       |
| 616                          | 102-616                    | 3                      | MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE                          |
| 619                          | 102-619                    | 2                      | MULTILANE, MOBILE OPERATIONS, WORK ON SHOULDER, WORK WITHIN THE TRAVEL WAY        |
| 625                          | 102-625                    | 1                      | TEMPORARY ROAD CLOSURE – 5 MINUTES OR LESS                                        |
| 655                          | 102-655                    | 3                      | TRAFFIC PACING                                                                    |
| 660                          | 102-660                    | 1                      | PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS                                       |
| 670                          | 102-670                    | 1                      | MOTORIST AWARENESS SYSTEM                                                         |

| ESTIMATED MATERIAL QUANTITIES      |             |               |
|------------------------------------|-------------|---------------|
| DESCRIPTION                        | LINEAR FEET | UNIT QUANTITY |
| 144 COUNT FIBER OPTIC CABLE        | 22,000      | NA            |
| 2" HDPE CONDUIT (HDD INSTALLATION) | 16,000      | NA            |
| 4" HDPE CONDUIT (HDD INSTALLATION) | 1,200       | NA            |
| FIBER OPTIC COTT MARKERS           | NA          | 4             |
| FIBER OPTIC CURB MARKERS           | NA          | 15            |
| FIBER OPTIC MANHOLES               | NA          | 19            |
| FO-RIS1C                           | NA          | 2             |
| FO-T                               | NA          | 11            |

NOTE: CABLE LENGTH ESTIMATE INCLUDES OVERHEAD AND MANHOLE STORAGE ONLY.

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|  | BLACK<br>&<br>VEATCH | 12740 Gran Bay Parkway West<br>Suite 2140<br>Jacksonville, Florida 32258 |
|                                                                                       |                      | CERTIFICATE OF AUTHORIZATION<br>NO. 8132                                 |

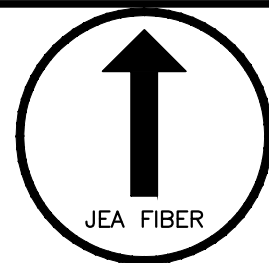
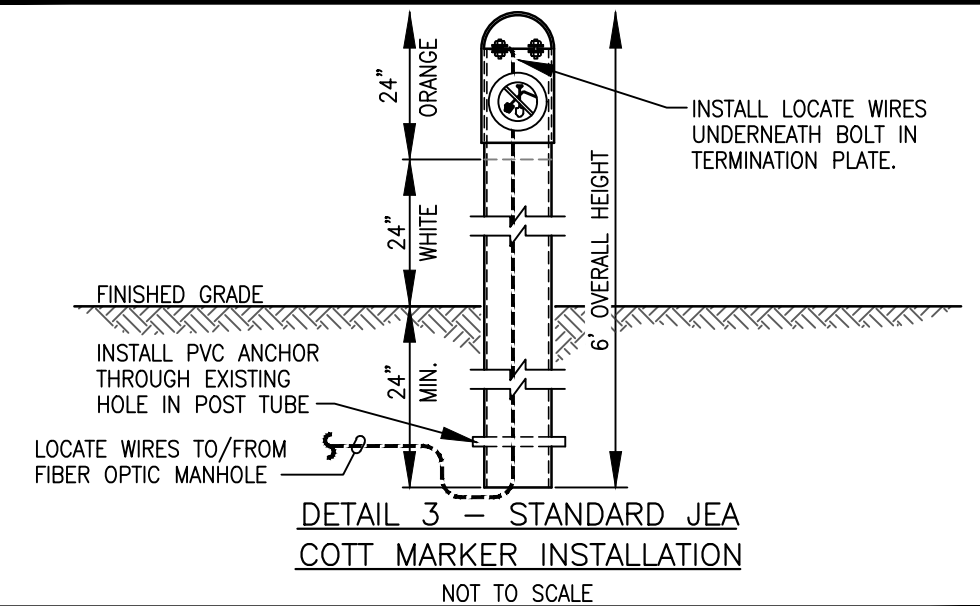
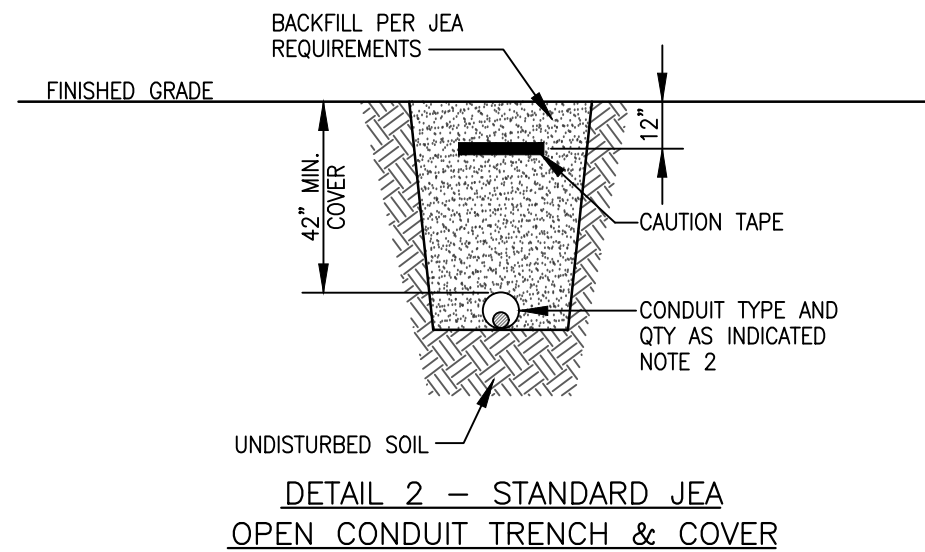
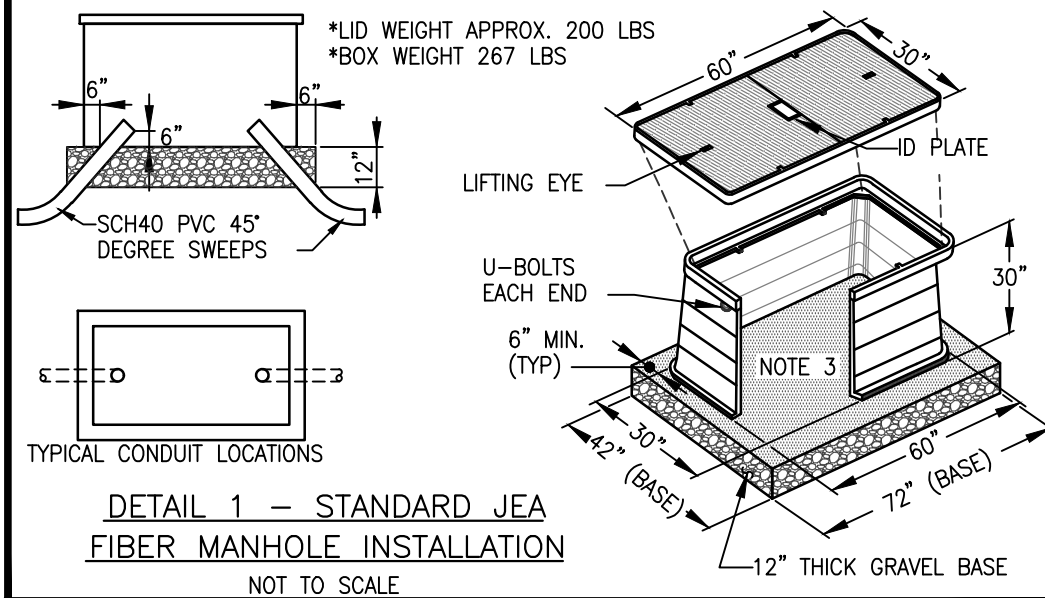
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## CONTACTS

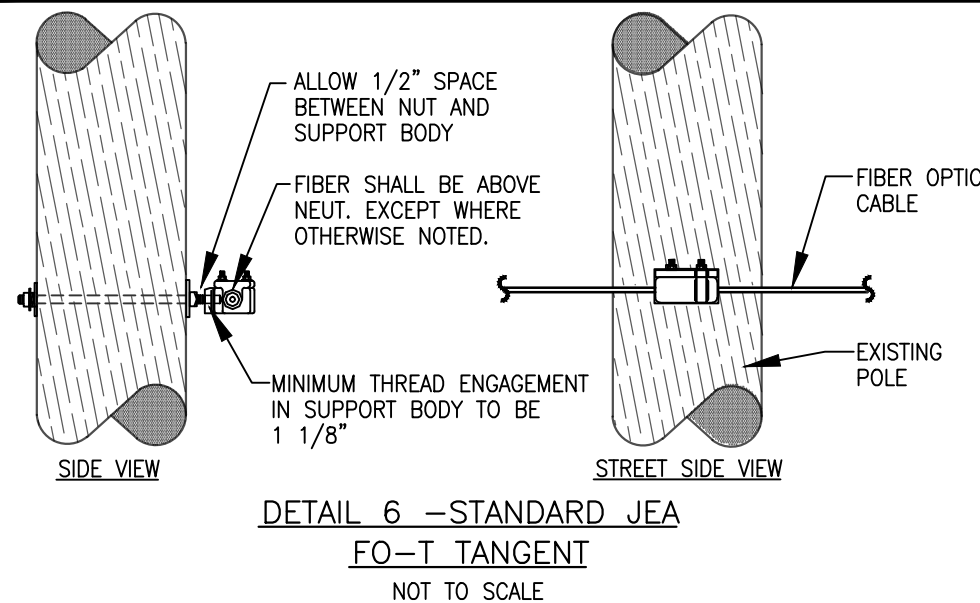
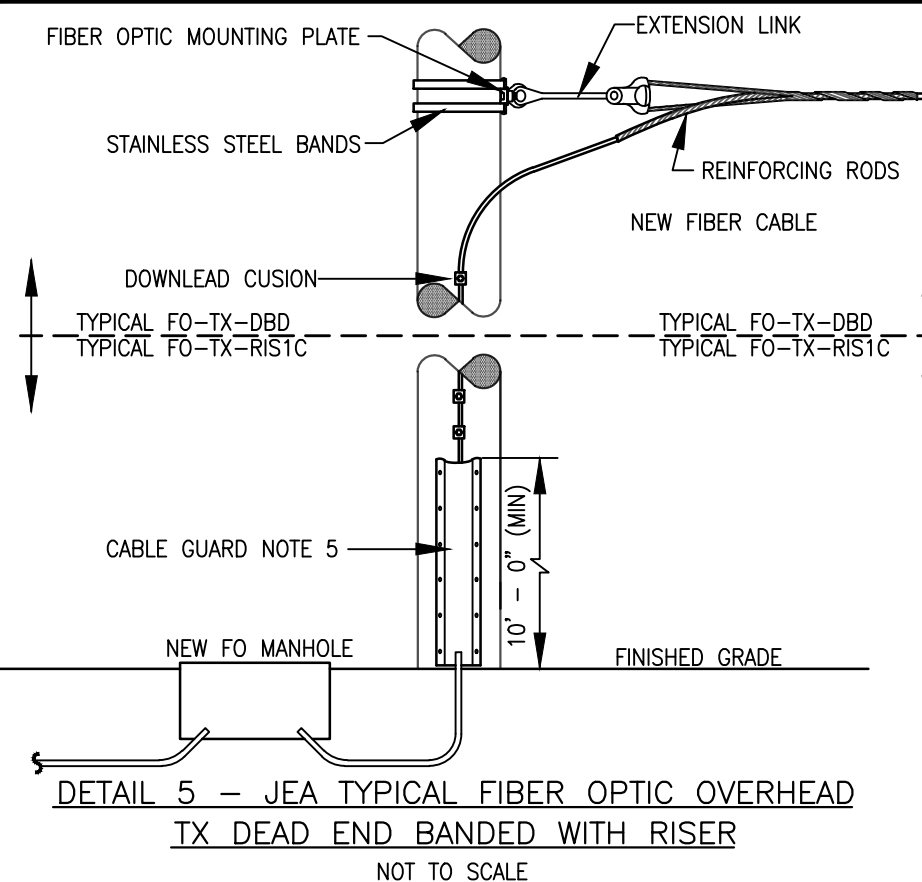
JEA PROJECT MANAGER: GREG RAGER  
(904) 665-8136

BLACK & VEATCH DESIGNER: KENT BAUGHER  
(904) 288-4257

[illegible]



**APPLICATION:**  
CONTRACTOR IS REQUIRED TO MARK FIBER OPTIC MANHOLES AND HAND HOLES. A 2 1/2" ADHESIVE MARKER SHALL BE INSTALLED ON THE CURB DIRECTLY IN FRONT OF EACH MANHOLE OR IN THE STREET SIDE OF A SIDEWALK WHERE NO CURB IS AVAILABLE. IN THE EVENT NEITHER CURB NOR SIDEWALK IS AVAILABLE, THE CONTRACTOR SHALL INSTALL THE MARKER IN THE ASPHALT PAVING DIRECTLY IN FROM OF EACH MANHOLE.



- DETAIL NOTES:

1. FIBER OPTIC CONDUIT SHALL MAINTAIN 42" MINIMUM COVER FROM TOP OF CONDUIT TO GRADE OR BOTTOM OF PAVEMENT AT LEAST 5' BEYOND PAVEMENT FOR RESIDENTIAL DRIVEWAYS, AND AT LEAST 7' BEYOND EDGE OF PAVEMENT FOR LOCAL OR STATE ROADWAYS.
2. INSTALL CONDUIT SIZE & TYPE AS INDICATED ON ROUTING PLANS. INSTALL FIBER CABLE AND 12G TRACER WIRE UNLESS SPECIFIED OTHERWISE. TRACER WIRE SHALL NOT EXTEND BEYOND THE CHAIN-LINK SECURITY FENCE AT SUBSTATIONS.
3. INSTALL CONDUITS 6" FROM INSIDE WALL CENTERED ALONG THE LONG AXIS OF THE MANHOLE. STORE 150' COIL OF SLACK FO CABLE IN EACH MANHOLE UNLESS OTHERWISE INDICATED.
4. WHERE UNDERGROUND FIBER OPTIC CONDUIT INTERSECTS EXISTING UTILITIES: THE BURIAL DEPTH OF FIBER OPTIC CONDUIT SHALL INCREASE TO PROVIDE AT LEAST 24" CLEARANCE (ALL SIDES) TO UTILITY, FOR A MINIMUM OF 48" BEYOND INTERSECTION OF FIBER AND UTILITY.
5. COVER CONDUIT WITH CABLE GUARD. EXTEND FIBER OPTIC CABLE AS INDICATED ON CONSTRUCTION DRAWINGS.

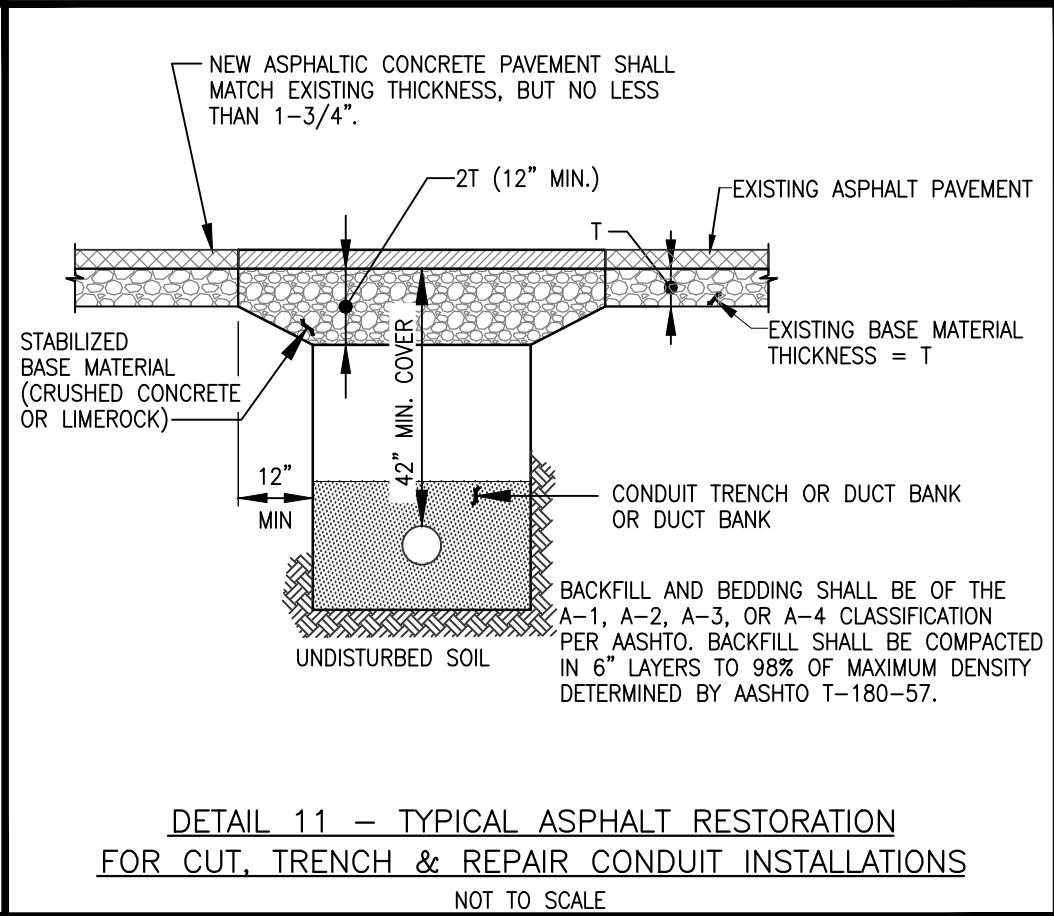
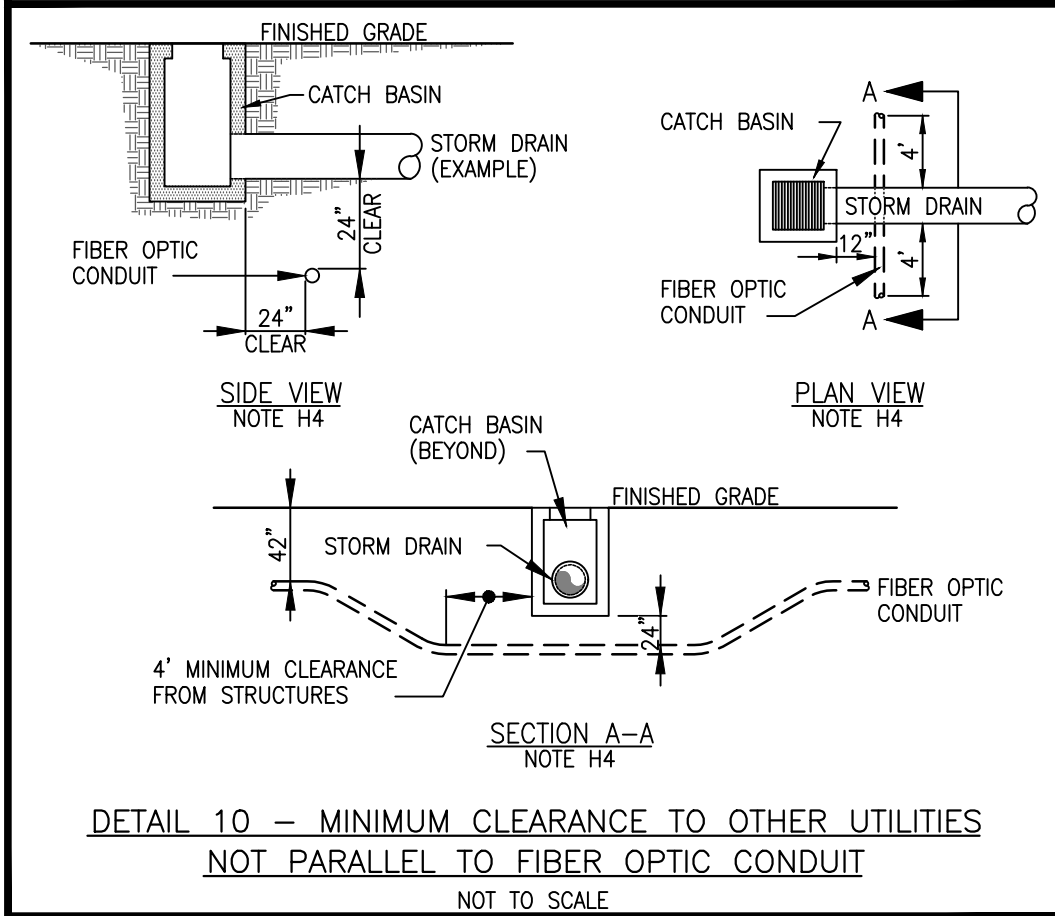
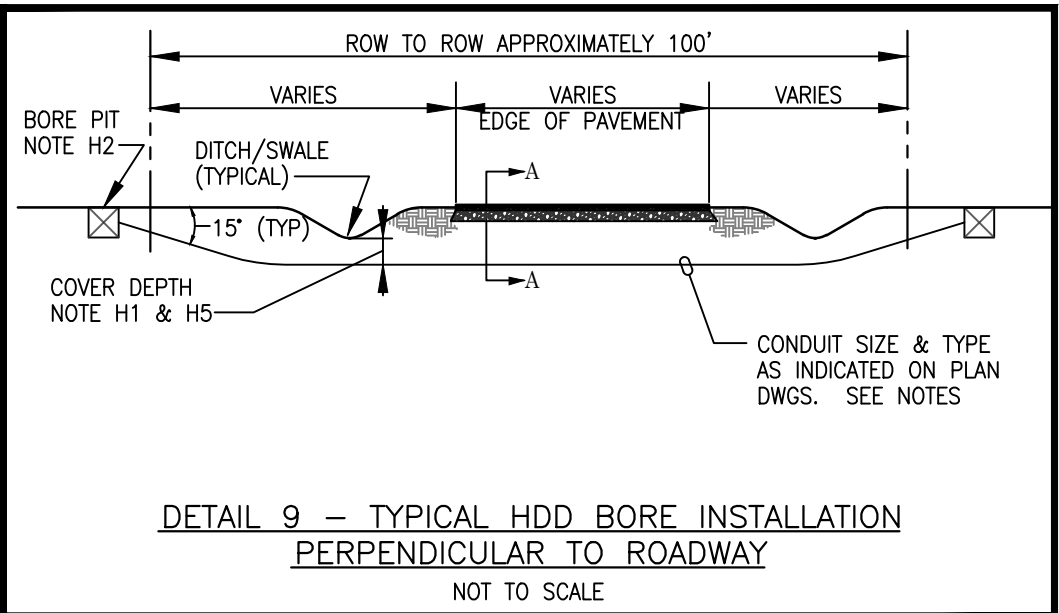
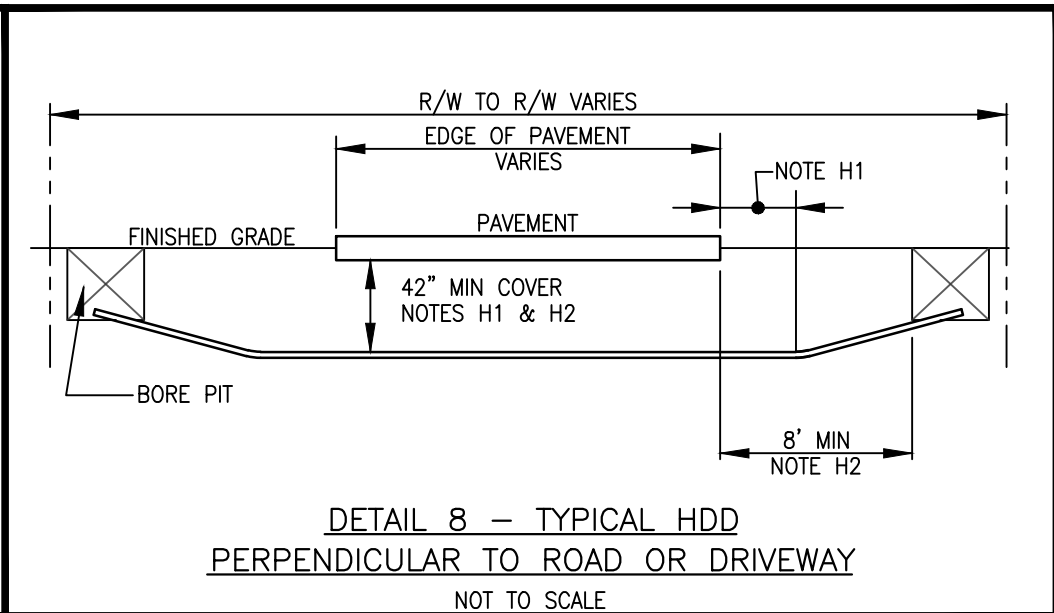
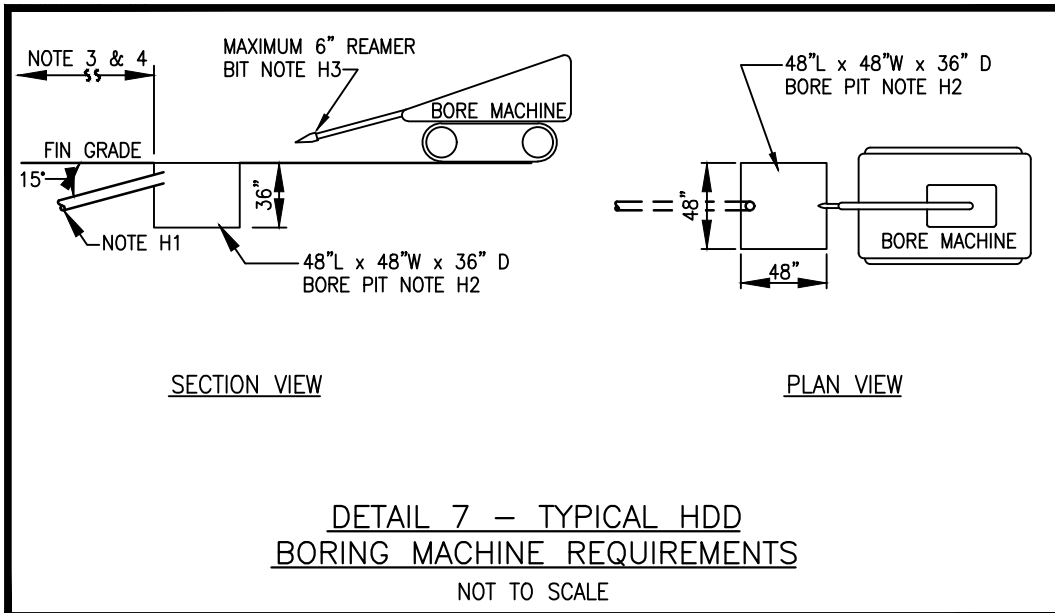
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|--------|---------------------------|-----|-----------|-----------------------|---------|---------|---------|--------------------|------------------------|-----|---------------------------------------------------------------|-------------|--|------------|
| NO. 15 |                           |     |           | PAGE 15               |         |         |         | SHEET 15           |                        |     |                                                               |             |  |            |
| NO     | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: -           | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |     | 128 HEDGEROW ST MLS<br>FIBER OPTIC BUILD<br>DETAILS AND NOTES |             |  | PROJ PHASE |
| 0      | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |         | 4.16 kV | 13.2 kV | 26.4 kV            |                        | BY  |                                                               |             |  | DATE       |
|        |                           |     |           | SUBSTATION NAME       |         |         |         |                    | DRAWN BY:              | JKB | DEC/18                                                        | PROJ NO.    |  |            |
|        |                           |     |           | CIRCUIT NUMBER/S      |         |         |         |                    | DESIGNED BY:           | JKB | DEC/18                                                        | 400483      |  |            |
|        |                           |     |           | SWITCH MAP NUMBER/S   |         |         |         |                    | CHECKED BY:            |     |                                                               | DRAWING NO. |  |            |
|        |                           |     |           | OVERHEAD MAP NUMBER/S |         |         |         |                    | APPROVED BY:           |     |                                                               | EO-2        |  |            |
|        |                           |     |           |                       |         |         |         |                    | APPROVED FOR CONST BY: |     |                                                               | SHEET CNT   |  |            |
|        |                           |     |           |                       |         |         |         |                    |                        |     |                                                               | 2 OF 21     |  |            |



**HDD & BORING DETAIL NOTES:**

H1. CONDUIT SHALL MAINTAIN 42" MINIMUM COVER TO TOP OF CONDUIT FROM BOTTOM OF PAVEMENT EXTENDING AT LEAST 5' BEYOND PAVEMENT FOR RESIDENTIAL DRIVEWAYS, AND AT LEAST 7' BEYOND EDGE OF PAVEMENT FOR COUNTY, STATE OR FEDERAL ROADWAYS.

MINIMUM COVER SHALL BE INCREASED FOR STATE AND FEDERAL ROADWAYS TO BE: EQUAL TO THE GREATER OF EITHER FIVE FEET, OR FIVE TIMES THE MAXIMUM ENCASED DIAMETER OF THE UTILITY LINE TO BE INSTALLED. COVER DEPTH SHALL BE MAINTAINED BETWEEN THE TOP OF THE UTILITY CASING AND THE SOIL SURFACE OR SUBMERGED BOTTOM OF ANY WETLAND OR WATERBODY BEING CROSSED.

H2. BORE PITS MAY BE USED FOR FIBER OPTIC MANHOLE PLACEMENT AFTER CONDUIT IS RETRIEVED AND 12" GRAVEL BASE IS INSTALLED. FOR STATE ROADWAYS, BORE PITS SHALL BE NO LESS THAN 8' FROM EDGE OF PAVEMENT.

H3. BORE MACHINE REAMER BITS AND SIMILAR EQUIPMENT ARE SUBJECT TO INSPECTION BY AHJ AND SHALL REMAIN ON SITE FOR THE DURATION OF THE CONSTRUCTION PROJECT.

H4. WHERE UNDERGROUND FIBER OPTIC CONDUIT INTERSECTS EXISTING UTILITIES, THAT ARE NOT PARALLEL WITH FIBER OPTIC CONDUIT: BURIAL DEPTH OF FO CONDUIT SHALL INCREASE AS NEEDED TO PROVIDE AT LEAST 24" CLEARANCE TO ADJACENT UTILITIES, FOR AT LEAST 48" BEYOND THE INTERSECTION. CATCH BASINS SHALL NOT BE BORED UNDER.

H5. EXISTING NATURAL GAS LINES SHALL BE LOCATED IN ORDER TO MAINTAIN A MINIMUM CLEARANCE OF 36". MCI FIBER CABLE SHALL BE LOCATED IN ORDER TO MAINTAIN A MINIMUM CLEARANCE OF 24".

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CONTACTS

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| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: -           | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD | 128 HEDGEROW ST MLS<br>FIBER OPTIC BUILD<br>DETAILS AND NOTES | PROJ PHASE           |
|----|---------------------------|-----|-----------|-----------------------|---------|---------|---------|--------------------|---------------------------------------------------------------|----------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |         | 4.16 kV | 13.2 kV | 26.4 kV            |                                                               | 0050                 |
|    |                           |     |           | SUBSTATION NAME       |         |         |         |                    |                                                               | PROJ NO.<br>400478   |
|    |                           |     |           | CIRCUIT NUMBER/S      |         |         |         |                    |                                                               | DRAWING NO.<br>EO-2A |
|    |                           |     |           | SWITCH MAP NUMBER/S   |         |         |         |                    |                                                               | SHEET CNT<br>3 OF 21 |
|    |                           |     |           | OVERHEAD MAP NUMBER/S |         |         |         |                    |                                                               |                      |

|            |              |     |        |
|------------|--------------|-----|--------|
| DWG SCALE: | AS INDICATED | BY  | DATE   |
|            |              | JKB | DEC/18 |
|            |              | JKB | DEC/18 |
|            |              |     |        |
|            |              |     |        |
|            |              |     |        |
|            |              |     |        |

TECHNOLOGY SERVICES

BUILDING COMMUNITY JACKSONVILLE, FLORIDA

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES AT LEAST 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY, USING FLORIDA ONE CALL 1-800-432-4770.
2. BURIED CONDUIT FOR FIBER OPTIC CABLE SHALL BE PLACED WITH 42" MINIMUM COVER AND CAUTION TAPE PLACED 12" BELOW FINISHED GRADE ABOVE FIBER OPTIC CONDUIT. PROVIDE 24" MINIMUM CLEARANCE TO OTHER BURIED UTILITIES. PROVIDE MINIMUM 36" CLEAR TO NATURAL GAS LINES.
3. BENDS IN CONDUIT FOR FIBER OPTIC CABLE SHALL BE 36" MINIMUM RADIUS.
4. THE "TARGET RUN-LINE", WHERE SHOWN, INTENDS TO ESTABLISH A CONSISTENT LOCATION WITHIN THE RIGHT OF WAY SECTION FOR FIBER OPTIC INSTALLATION WHILE MAINTAINING REQUIRED CLEARANCES AND PROTECTION OF OTHER UTILITIES, TREES, ETC.
5. CONDUITS TERMINATING IN PULL BOXES OR EMPTY SHALL BE PURGED AND LEFT CLEAN, DRY AND FREE OF DEBRIS. EMPTY CONDUITS SHALL BE CAPPED AT EACH END.
6. CONDUIT INSTALLATION MAY BE BY PLOW, OPEN TRENCHING, HAND DIGGING, MISSILE BORE OR HORIZONTAL DIRECTIONAL DRILL (HDD), AS INDICATED BY THE CONSTRUCTION DRAWINGS AND AS ALLOWED PER APPLICABLE STANDARDS.
7. CONDUITS PASSING UNDER EXISTING DRIVEWAYS, WALKWAYS, OR SIMILAR IMPROVEMENTS PAVED OR UNPAVED, PERPENDICULAR TO THE PRIMARY ROADWAY SHALL BE INSTALLED BY DIRECTIONAL BORE METHOD. UNLESS NOTED OR OTHERWISE RESTRICTED BY CONDITIONS OR APPLICABLE REGULATIONS. CROSSING UNDER PAVED OR IMPROVED AREAS LESS THAN 15' WIDE, MISSILE BORE IS ACCEPTABLE.
8. WORK SITE CLEANUP SHALL BE CONDUCTED ON A DAILY BASIS. TRENCHES, BORE PITS AND DEPRESSIONS GREATER THAN 12" DEEP SHALL BE BACKFILLED AND COMPACTED BEFORE CONTRACTOR LEAVES THE WORK SITE EACH DAY.
9. BACKFILL MATERIAL SHALL CONSIST OF CLEAN FILL PLACED IN 6 TO 8 INCH LIFTS ABOVE THE CONDUIT(S). THE METHOD OF COMPACTION AND THE EQUIPMENT USED SHALL BE APPROPRIATE FOR THE MATERIAL TO BE COMPACTED. RELATIVE COMPACTION SHALL BE TO 95 PERCENT STANDARD DENSITY AND AS REQUIRED BY THE LOCAL GOVERNING AGENCY THROUGH WHICH THE WORK IS BEING DONE.
10. CURB OR COTT MARKERS SHALL BE PLACED AT NEW FIBER MANHOLES AND EXISTING FIBER MANHOLES WHERE EXISTING MARKER IS DAMAGED OR MISSING.
11. FOR UNDERGROUND INSTALLATION IN CONDUIT, 12GA LOCATE WIRE SHALL BE PULLED IN WITH FIBER OPTIC CABLE, EXCEPT WITHIN ELECTRICAL SUBSTATION FENCED AREAS.
12. EROSION AND SEDIMENT CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. CURB AND GUTTER INLETS SHALL BE PROTECTED BY DOUBLE FILTER SOCK. DITCHES SHALL BE PROTECTED BY HAY BALES AND SILT FENCE.
13. EXISTING CONCRETE OR PAVEMENT, DAMAGED OR REMOVED SHALL BE REPLACED FROM JOINT TO JOINT.
14. UNLESS INDICATED OTHERWISE OH FIBER CABLES SHALL BE ATTACHED APPROXIMATELY 24" ABOVE NEUTRAL.
15. INSTALLED FIBER OPTIC CABLES SHALL MAINTAIN THE FOLLOWING VERTICAL CLEARANCES:
  - A. WHERE CABLE IS PARALLEL TO ROADWAY AND CABLE DOES NOT CROSS DRIVE OR ROADWAY:  
MAINTAIN MINIMUM 16' VERTICAL CLEARANCE FROM PAVEMENT OR GRADE TO LOWEST POINT OF FIBER OPTIC CABLE.
  - B. WHERE CABLE IS PARALLEL TO ROADWAY AND CABLE CROSSES OVER DRIVE OR ROADWAY:  
MAINTAIN MINIMUM 18' VERTICAL CLEARANCE FROM PAVEMENT OR GRADE TO LOWEST POINT OF FIBER OPTIC CABLE.
  - C. WHERE CABLE IS PARALLEL OR CROSSES OVER PAVEMENT WITH LIMITED ROW ACCESS OR AS DIRECTED:  
MAINTAIN 24' MINIMUM VERTICAL CLEARANCE FROM PAVEMENT OR GRADE TO LOWEST POINT OF FIBER OPTIC CABLE.

1. CONSTRUCTION ACTIVITIES AND WORK PERFORMED UNDER THIS CONTACT SHALL ADHERE TO THE CURRENT JEA STANDARDS FOR UNDERGROUND AND AERIAL INSTALLATION.
2. CONSTRUCTION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT APPLICABLE CODES AND REQUIREMENTS OF JURISDICTIONAL AGENCIES, AND THE RIGHT OF WAY GRANTOR. WORK SHALL COMPLY WITH O.S.H.A. STANDARDS AT ALL TIMES.
4. THE EXACT LOCATION OF EXISTING UTILITIES ARE NOT KNOWN. EXISTING UTILITIES, AND OTHER FEATURES, SUCH AS RIGHT-OF-WAY, EASEMENTS, DRIVEWAYS, AND SIMILAR UTILITY FACILITIES UNDERGROUND OR OVERHEAD WHERE SHOWN, HAVE BEEN INDICATED FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND OBSTRUCTIONS AT LEAST 100 FEET IN ADVANCE OF ANY PHYSICAL INSTALLATION, SO THAT CHANGES IN ROUTE PLACEMENT CAN BE MADE AS NEEDED.
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING OBJECTS ABOVE GRADE, POLE MOUNTED, AT GRADE AND BURIED, INCLUDING BUT NOT LIMITED TO UTILITIES. THE CONTRACTOR SHALL NOTIFY OWNER OF DAMAGE AND REPAIR OR MAKE ARRANGEMENTS FOR REPAIR OF DAMAGED OBSTRUCTIONS AND UTILITIES.
6. EXISTING IMPROVEMENTS SUCH AS, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS, SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
7. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INTEND TO CONVEY THE DESIGN INTENT AND GENERAL ARRANGEMENT. RELATIVE LOCATIONS OF EQUIPMENT, DEVICES, UTILITIES, PROPERTY LINES, RIGHT-OF-WAY AND EASEMENTS ARE NOT NECESSARILY IN THEIR PRECISE LOCATION. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF PROPERTY ENSURING THE INSTALLATION REMAINS WITHIN DEFINED AREAS.
8. OMISSIONS BY THE ENGINEER DO NOT RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROVIDE CONTRACTED PRODUCTS AND SERVICES. THE ENGINEER RESERVES THE RIGHT TO SOLELY PROVIDE CLARIFICATIONS OR FINAL INTERPRETATION OF THE DESIGN INTENT OR REQUIREMENTS.

DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL MONITOR EARTH SPOILS FOR SIGNS OF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENT.

IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05, FLORIDA STATUTES.

GRAPHIC SYMBOLS:  
SOME SYMBOLS, ABBREVIATIONS OR DESCRIPTIONS MAY  
NOT BE USED FOR THIS PROJECT.

WHERE EXISTING DRAWINGS ARE USED FOR BACKGROUND INFORMATION, VARIATIONS OF THE DEPICTED SYMBOLS MAY EXIST.

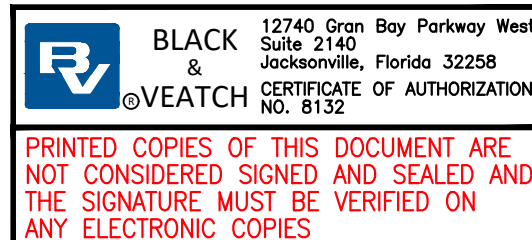
SYMBOLS MAY BE SHOWN LARGER OR SMALLER THAN ACTUAL  
SIZE FOR CLARITY.

- |                   |                                          |
|-------------------|------------------------------------------|
| _____             | RIGHT OF WAY OR EASEMENT                 |
| _____             | PROPERTY BOUNDARY                        |
| =====             | EDGE OF PAVEMENT                         |
| - - - - -         | EDGE OF UNPAVED ROAD                     |
| - - - - -         | UNDERGROUND FIBER OPTIC CABLE IN CONDUIT |
| =====             | AERIAL FIBER OPTIC CABLE                 |
| _____             | EXISTING AERIAL FIBER OPTIC CABLE        |
| - . - . - . - . - | HDD INSTALLATION ROUTE                   |
| — — STORM — —     | EXISTING STORM DRAIN                     |
| _____ GAS _____   | EXISTING UNDERGROUND NATURAL GAS PIPE    |
| _____ MCI F _____ | EXISTING UNDERGROUND MCI FIBER OPTIC     |

- |                                                                                       |                                         |
|---------------------------------------------------------------------------------------|-----------------------------------------|
|    | FIBER OPTIC BORE PIT (48" X 48" X 36"D) |
|    | FIBER OPTIC MANHOLE (30" X 60" X 30")   |
|    | CONSTRUCTION SEQUENCE NUMBER            |
|   | FIBER SPLICE LOCATION                   |
|  | COTT MARKER (SEE DETAIL)                |
|  | CURB MARKER (SEE DETAIL)                |
|  | EXISTING CONCRETE POLE                  |
|  | EXISTING WOOD POLE                      |

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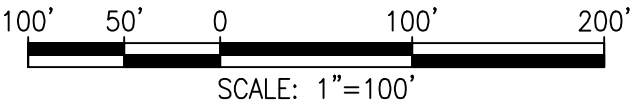
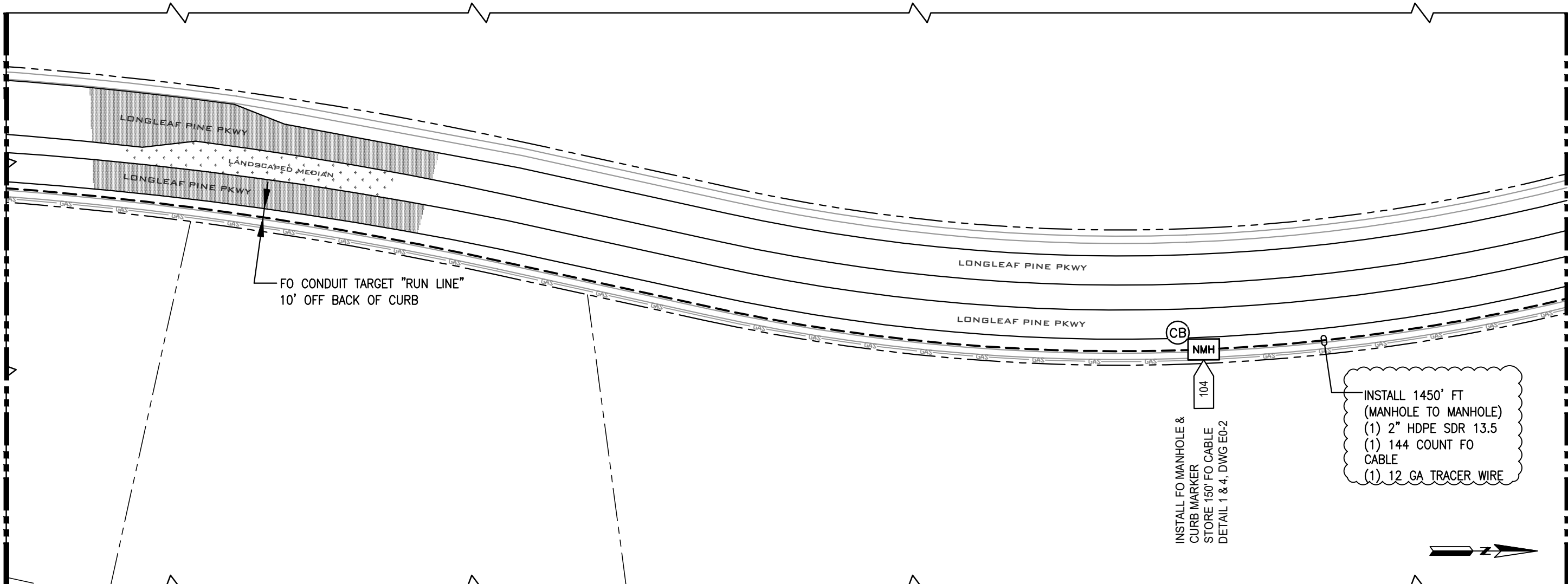
PROJECT MANAGER: GREG RAGER  
(904) 665-8136  
PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

[illegible]



MATCH LINE A-A SEE DRAWING E1-2

MATCH LINE B-B SEE DRAWING E1-3



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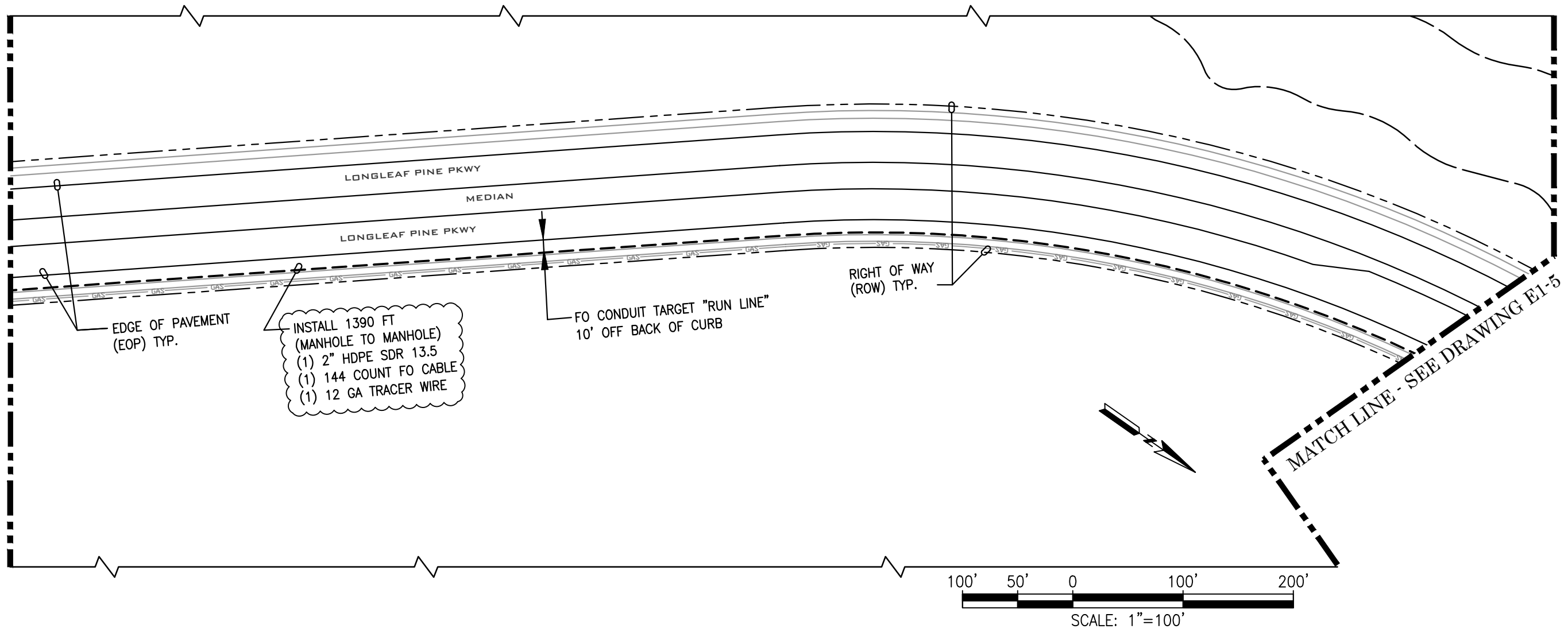
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CONTACTS  
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PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO |   | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: —           | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |              | 128 HEDGEROW ST – MASTER LIFT STATION<br>FIBER OPTIC BUILD<br>FIBER ROUTING PLAN                                                     |             |                     | PROJ PHASE |
|----|---|---------------------------|-----|-----------|-----------------------|---------|---------|---------|--------------------|------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|
| 0  | 1 |                           |     |           |                       |         |         |         |                    | BY                     | DATE         |                                                                                                                                      |             |                     | 0050       |
|    |   | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |         | 4.16 kV | 13.2 kV | 26.4 kV            | DRAWN BY:              | JKB          | NOV/18                                                                                                                               | PROJ NO.    |                     |            |
|    |   | REVISED AS NOTED          | JKB | 08/JUL/19 | SUBSTATION NAME       |         |         |         |                    | DESIGNED BY:           | JKB          | NOV/18                                                                                                                               | 400478      |                     |            |
|    |   |                           |     |           | CIRCUIT NUMBER/S      |         |         |         |                    | CHECKED BY:            |              |                                                                                                                                      | DRAWING NO. |                     |            |
|    |   |                           |     |           | SWITCH MAP NUMBER/S   |         |         |         |                    | APPROVED BY:           |              |                                                                                                                                      | E1–2        |                     |            |
|    |   |                           |     |           | OVERHEAD MAP NUMBER/S |         |         |         |                    | APPROVED FOR CONST BY: |              |                                                                                                                                      | SHEET CNT   |                     |            |
|    |   |                           |     |           |                       |         |         |         |                    |                        |              |                                                                                                                                      | 6 OF 21     |                     |            |
|    |   |                           |     |           |                       |         |         |         |                    |                        | DWG SCALE:   | <br>BUILDING COMMUNITY<br>JACKSONVILLE, FLORIDA |             | TECHNOLOGY SERVICES |            |
|    |   |                           |     |           |                       |         |         |         |                    |                        | AS_INDICATED |                                                                                                                                      |             |                     |            |



MATCH LINE - SEE DRAWING E1-3



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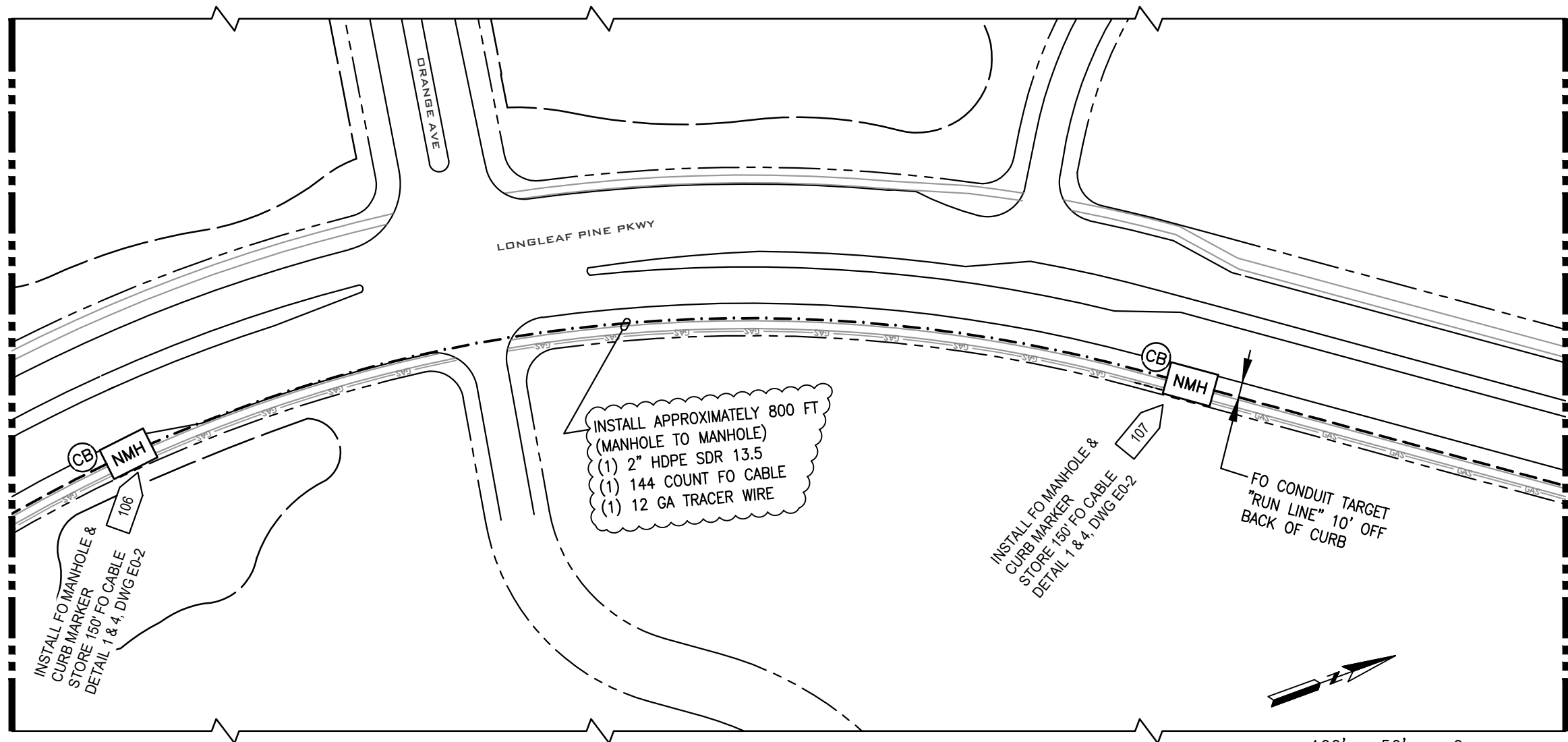
### CONTACTS

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(904) 665-8136

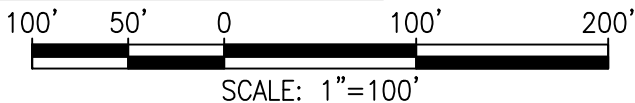
PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: - | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |     | 128 HEDGEROW ST - MASTER LIFT STATION |                                                    |  | PROJ PHASE         |
|----|---------------------------|-----|-----------|-------------|---------|---------|---------|--------------------|------------------------|-----|---------------------------------------|----------------------------------------------------|--|--------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |             |         | 4.16 kV | 13.2 kV | 26.4 kV            | DRAWN BY:              | JKB | NOV/18                                | FIBER OPTIC BUILD                                  |  | 0050               |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |             |         |         |         |                    | DESIGNED BY:           | JKB | NOV/18                                | FIBER ROUTING PLAN                                 |  | PROJ NO.<br>400478 |
|    |                           |     |           |             |         |         |         |                    | CHECKED BY:            |     |                                       | DWG SCALE:                                         |  | DRAWING NO.        |
|    |                           |     |           |             |         |         |         |                    | APPROVED BY:           |     |                                       | AS INDICATED                                       |  | E1-4               |
|    |                           |     |           |             |         |         |         |                    | APPROVED FOR CONST BY: |     |                                       | JEA<br>BUILDING COMMUNITY<br>JACKSONVILLE, FLORIDA |  | SHEET CNT          |
|    |                           |     |           |             |         |         |         |                    |                        |     |                                       | TECHNOLOGY<br>SERVICES                             |  | 8 OF 21            |

MATCH LINE - SEE DRAWING E1-4



MATCH LINE - SEE DRAWING E1-6



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PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      |
|----|---------------------------|-----|-----------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |

| ENGINEER: -           | PAGER # | RADIO # | PHONE # |
|-----------------------|---------|---------|---------|
|                       |         | 4.16 kV | 13.2 kV |
|                       |         |         | 26.4 kV |
| SUBSTATION NAME       |         |         |         |
| CIRCUIT NUMBER/S      |         |         |         |
| SWITCH MAP NUMBER/S   |         |         |         |
| OVERHEAD MAP NUMBER/S |         |         |         |

| ENGINEERING RECORD     |     |        |
|------------------------|-----|--------|
|                        | BY  | DATE   |
| DRAWN BY:              | JKB | NOV/18 |
| DESIGNED BY:           | JKB | NOV/18 |
| CHECKED BY:            |     |        |
| APPROVED BY:           |     |        |
| APPROVED FOR CONST BY: |     |        |

128 HEDGEROW ST - MASTER LIFT STATION  
FIBER OPTIC BUILD  
FIBER ROUTING PLAN

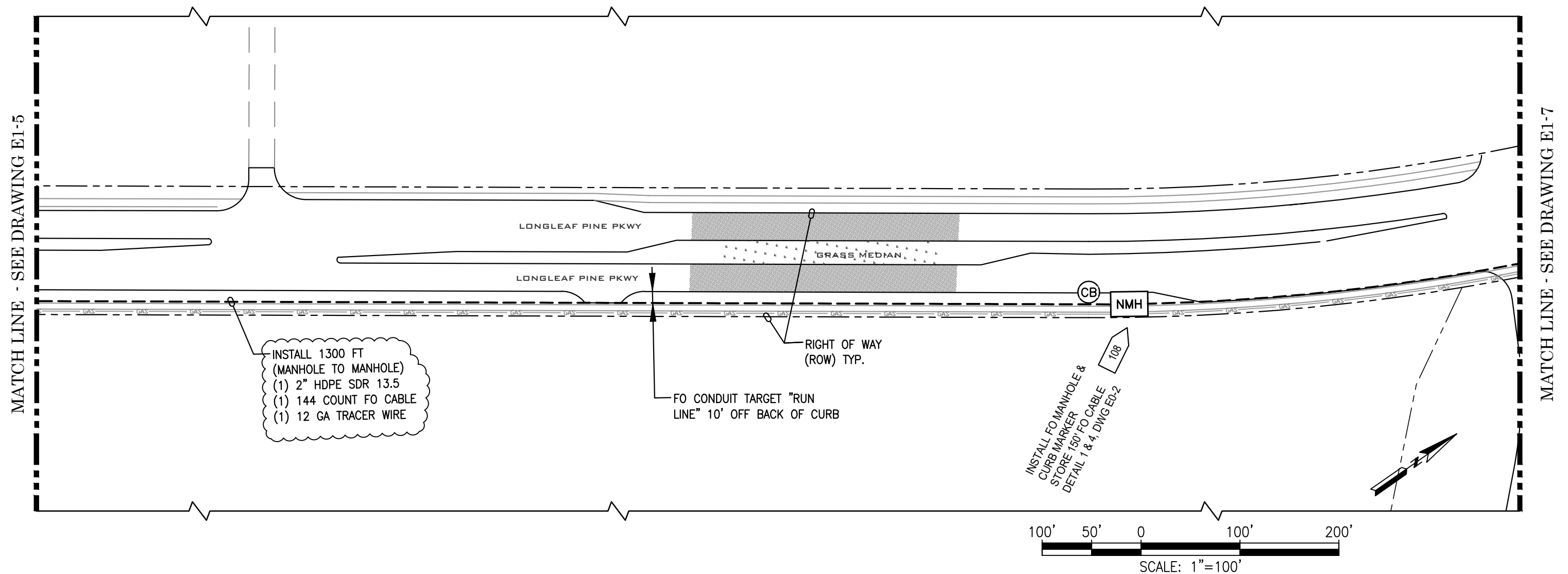
DWG SCALE:  
AS INDICATED



BUILDING COMMUNITY  
JACKSONVILLE, FLORIDA

TECHNOLOGY  
SERVICES

| PROJ PHASE  |
|-------------|
| 0050        |
| PROJ NO.    |
| 400478      |
| DRAWING NO. |
| E1-5        |
| SHEET CNT   |
| 9 OF 21     |



MATCH LINE - SEE DRAWING E1-7

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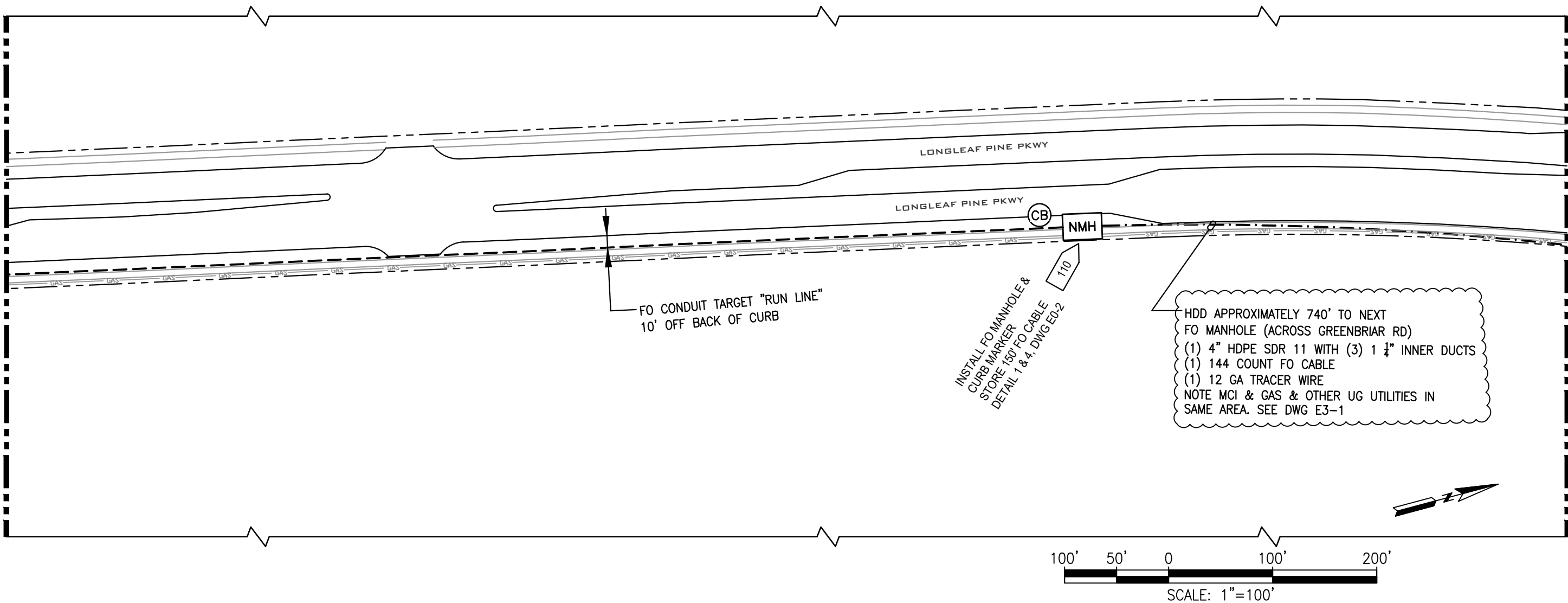
## CONTACTS

PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257



MATCH LINE - SEE DRAWING E1-7

MATCH LINE - SEE DRAWING E1-9



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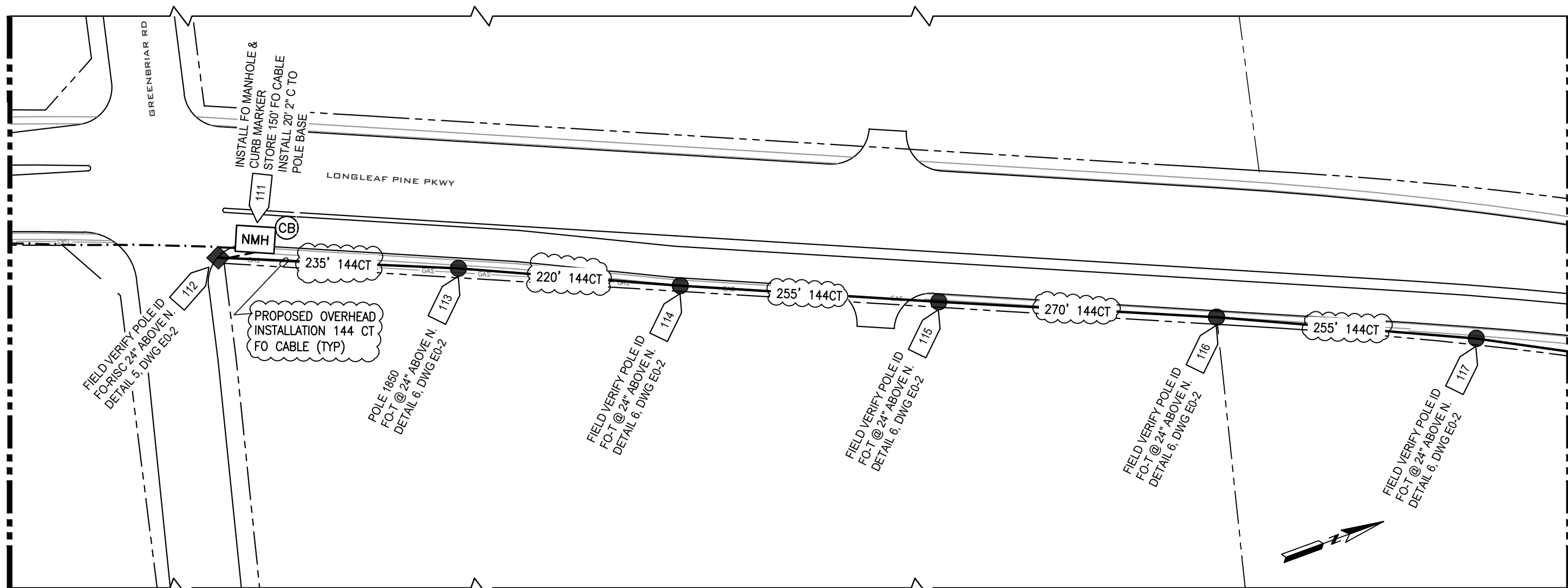
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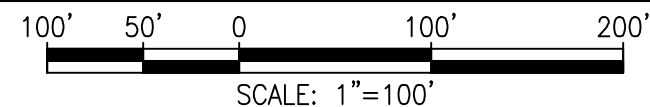
PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: - | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |     | 128 HEDGEROW ST - MASTER LIFT STATION |                                                    | PROJ. PHASE           |
|----|---------------------------|-----|-----------|-------------|---------|---------|---------|--------------------|------------------------|-----|---------------------------------------|----------------------------------------------------|-----------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |             |         | 4.16 kV | 13.2 kV | 26.4 kV            | DRAWN BY:              | JKB | NOV/18                                | FIBER OPTIC BUILD<br>FIBER ROUTING PLAN            | 0050                  |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |             |         |         |         |                    | DESIGNED BY:           | JKB | NOV/18                                |                                                    | PROJ. NO.<br>400478   |
|    |                           |     |           |             |         |         |         |                    | CHECKED BY:            |     |                                       | DWG SCALE:<br>AS INDICATED                         | DRAWING NO.<br>E1-8   |
|    |                           |     |           |             |         |         |         |                    | APPROVED BY:           |     |                                       |                                                    | SHEET CNT<br>12 OF 21 |
|    |                           |     |           |             |         |         |         |                    | APPROVED FOR CONST BY: |     |                                       | JEA<br>BUILDING COMMUNITY<br>JACKSONVILLE, FLORIDA |                       |
|    |                           |     |           |             |         |         |         |                    |                        |     |                                       | TECHNOLOGY<br>SERVICES                             |                       |

MATCH LINE - SEE DRAWING E1-8



MATCH LINE - SEE DRAWING E1-10



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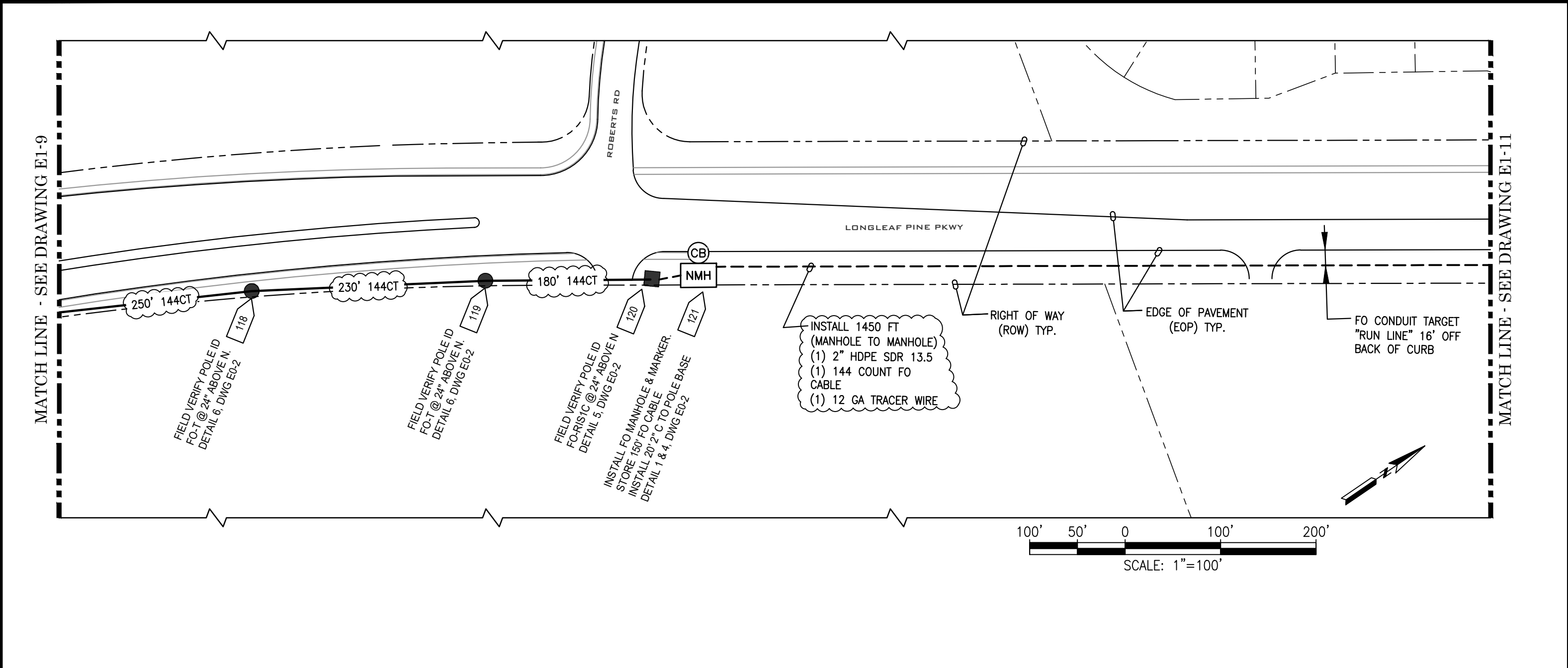
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(904) 288-4257

| NO |  | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: -           |  | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |  | 128 HEDGEROW ST - MASTER LIFT STATION<br>FIBER OPTIC BUILD<br>FIBER ROUTING PLAN |  |              | PROJ PHASE                                                                                                                           |                     |                       |
|----|--|---------------------------|-----|-----------|-----------------------|--|---------|---------|---------|--------------------|------------------------|--|----------------------------------------------------------------------------------|--|--------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| 0  |  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |  |         | 4.16 kV | 13.2 kV | 26.4 kV            |                        |  |                                                                                  |  |              | BY                                                                                                                                   | DATE                | 0050                  |
| 1  |  | REVISED AS NOTED          | JKB | 08/JUL/19 | SUBSTATION NAME       |  |         |         |         |                    | DRAWN BY:              |  |                                                                                  |  |              | JKB                                                                                                                                  | NOV/18              | PROJ NO.<br>400478    |
|    |  |                           |     |           | CIRCUIT NUMBER/S      |  |         |         |         |                    | DESIGNED BY:           |  |                                                                                  |  |              | JKB                                                                                                                                  | NOV/18              |                       |
|    |  |                           |     |           | SWITCH MAP NUMBER/S   |  |         |         |         |                    | CHECKED BY:            |  |                                                                                  |  | DWG SCALE:   | <br>BUILDING COMMUNITY<br>JACKSONVILLE, FLORIDA | TECHNOLOGY SERVICES | DRAWING NO.<br>E1-9   |
|    |  |                           |     |           | OVERHEAD MAP NUMBER/S |  |         |         |         |                    | APPROVED BY:           |  |                                                                                  |  | AS_INDICATED |                                                                                                                                      |                     | SHEET CNT<br>13 OF 21 |
|    |  |                           |     |           |                       |  |         |         |         |                    | APPROVED FOR CONST BY: |  |                                                                                  |  |              |                                                                                                                                      |                     |                       |



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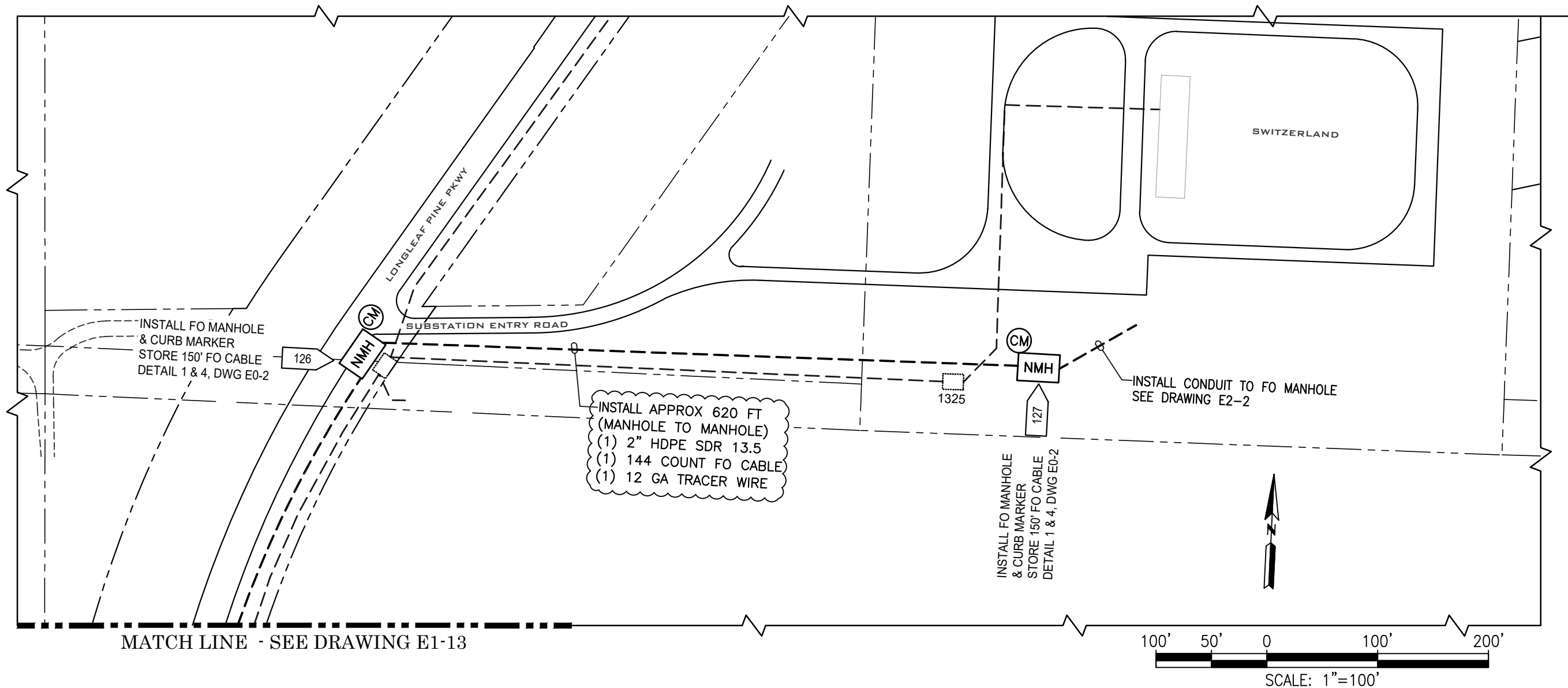
CONTACTS  
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PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO |  | REVISION DESCRIPTION      |  | BY  | DATE      | ENGINEER: —           |  |  | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD     |     |        | 128 HEDGEROW ST – MASTER LIFT STATION<br>FIBER OPTIC BUILD<br>FIBER ROUTING PLAN |  |             | PROJ PHASE |
|----|--|---------------------------|--|-----|-----------|-----------------------|--|--|---------|---------|---------|------------------------|-----|--------|----------------------------------------------------------------------------------|--|-------------|------------|
| 0  |  | APPROVED FOR CONSTRUCTION |  | JKB | 21/JUN/19 |                       |  |  |         | 4.16 kV | 13.2 kV | 26.4 kV                |     |        |                                                                                  |  |             | BY         |
| 1  |  | REVISED AS NOTED          |  | JKB | 08/JUL/19 | SUBSTATION NAME       |  |  |         |         |         | DRAWN BY:              | JKB | NOV/18 |                                                                                  |  | PROJ NO.    |            |
|    |  |                           |  |     |           | CIRCUIT NUMBER/S      |  |  |         |         |         | DESIGNED BY:           | JKB | NOV/18 |                                                                                  |  | 400478      |            |
|    |  |                           |  |     |           | SWITCH MAP NUMBER/S   |  |  |         |         |         | CHECKED BY:            |     |        |                                                                                  |  | DRAWING NO. |            |
|    |  |                           |  |     |           | OVERHEAD MAP NUMBER/S |  |  |         |         |         | APPROVED BY:           |     |        |                                                                                  |  | E1–10       |            |
|    |  |                           |  |     |           |                       |  |  |         |         |         | APPROVED FOR CONST BY: |     |        |                                                                                  |  | SHEET CNT   |            |
|    |  |                           |  |     |           |                       |  |  |         |         |         |                        |     |        |                                                                                  |  | 14 OF 21    |            |









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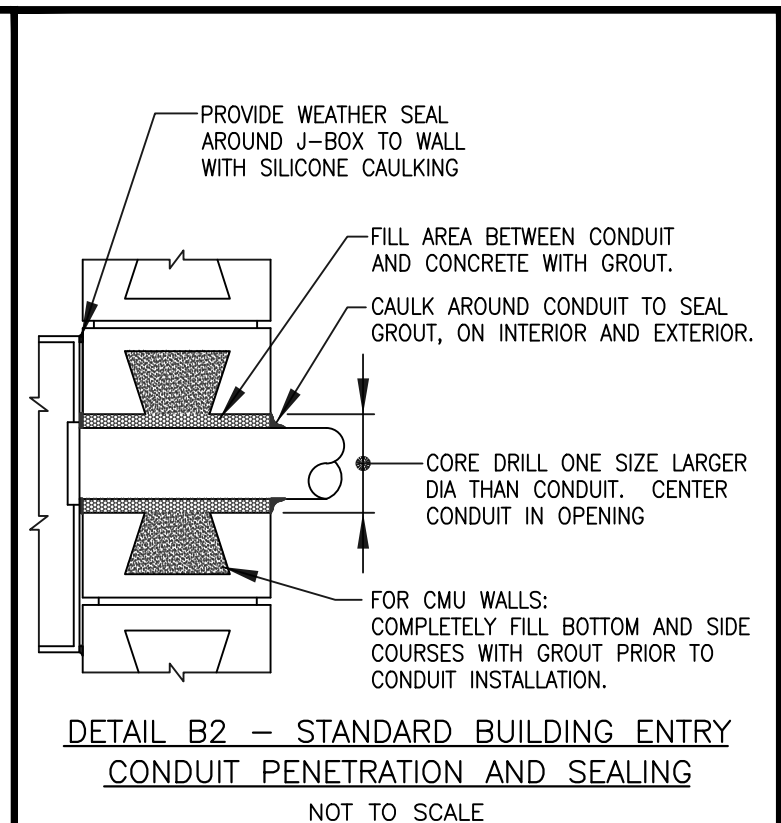
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PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: - | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |     | 128 HEDGEROW ST - MASTER LIFT STATION |                            |  | PROJ PHASE            |
|----|---------------------------|-----|-----------|-------------|---------|---------|---------|--------------------|------------------------|-----|---------------------------------------|----------------------------|--|-----------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |             |         | 4.16 kV | 13.2 kV | 26.4 kV            | DRAWN BY:              | JKB | NOV/18                                | FIBER OPTIC BUILD          |  | 0050                  |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |             |         |         |         |                    | DESIGNED BY:           | JKB | NOV/18                                | FIBER ROUTING PLAN         |  | PROJ NO.<br>400478    |
|    |                           |     |           |             |         |         |         |                    | CHECKED BY:            |     |                                       | DWG SCALE:<br>AS INDICATED |  | DRAWING NO.<br>E1-14  |
|    |                           |     |           |             |         |         |         |                    | APPROVED BY:           |     |                                       |                            |  | SHEET CNT<br>18 OF 21 |
|    |                           |     |           |             |         |         |         |                    | APPROVED FOR CONST BY: |     |                                       |                            |  |                       |



- B1. INSTALL 2" PVC FROM POLE BASE TO BUILDING RISER. TRANSITION TO RMC-AL AS SHOWN AND EXTEND UP WALL TO J-BOX APPROX. 5' ABOVE FINISHED GRADE/PAVEMENT.
- B2. ROUTE 2" RMC-AL FROM J-BOX THRU WALL TO TERMINATION LOCATION PER JEA. PROVIDE MINIMUM 50' SLACK CABLE INSIDE BUILDING NEAR TERMINATION POINT.

PLAN NOTES:

1. INSTALL FO MANHOLE & COTI MARKER APPROXIMATELY 6' OUTSIDE FENCE, INSTALL 144CT FO CABLE & TRACER WIRE. STORE 150' FO CABLE, FIELD VERIFY (LOCATE) EXISTING UG UTILITIES INCLUDING IRRIGATION SYSTEM BEFORE INSTALLATION OF FO CONDUIT MANHOLES OR MARKERS.
2. EXTEND 2" CONDUIT FROM R/W MANHOLE APPROX. 24" OFF EDGE OFF DRIVEWAY, TURNING TO FOLLOW FENCE WITH APPROX. 8' OFFSET FROM FENCE.
3. SAW CUT AND / OR CORE CONCRETE PAVEMENT BEHIND ELEC/CONTROL BLDG, EXTEND 2" C FROM MANHOLE TO BUILDING AND TURN UP TO J-BOX. SEE DETAIL B1 & B2.

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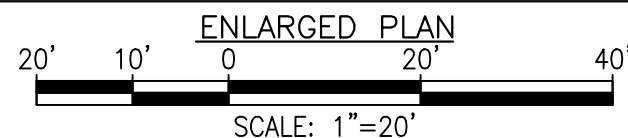
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## CONTACTS

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PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

128 HEDGFEROW STREET MASTER LIFT STATION



|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|----|---------------------------|-----|-----------|-----------------------|---------|---------|---------|--------------------|------------------------|-----|-------------------------------------------------------------|--|-----------------------|------------|
| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: –           | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD |                        |     | 128 HEDGEROW ST – MLS<br>FIBER OPTIC BUILD<br>ENLARGED PLAN |  |                       | PROJ PHASE |
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |         | 4.16 kV | 13.2 kV | 26.4 kV            |                        | BY  | DATE                                                        |  | O05C                  |            |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 | SUBSTATION NAME       |         |         |         |                    | DRAWN BY:              | JKB | MAY/19                                                      |  | PROJ NO.<br>400478    |            |
|    |                           |     |           | CIRCUIT NUMBER/S      |         |         |         |                    | DESIGNED BY:           | JKB | MAY/19                                                      |  |                       |            |
|    |                           |     |           | SWITCH MAP NUMBER/S   |         |         |         |                    | CHECKED BY:            |     |                                                             |  | DRAWING NO.<br>E2-1   |            |
|    |                           |     |           | OVERHEAD MAP NUMBER/S |         |         |         |                    | APPROVED BY:           |     |                                                             |  | SHEET CNT<br>20 OF 21 |            |
|    |                           |     |           |                       |         |         |         |                    | APPROVED FOR CONST BY: |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
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|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
|    |                           |     |           |                       |         |         |         |                    |                        |     |                                                             |  |                       |            |
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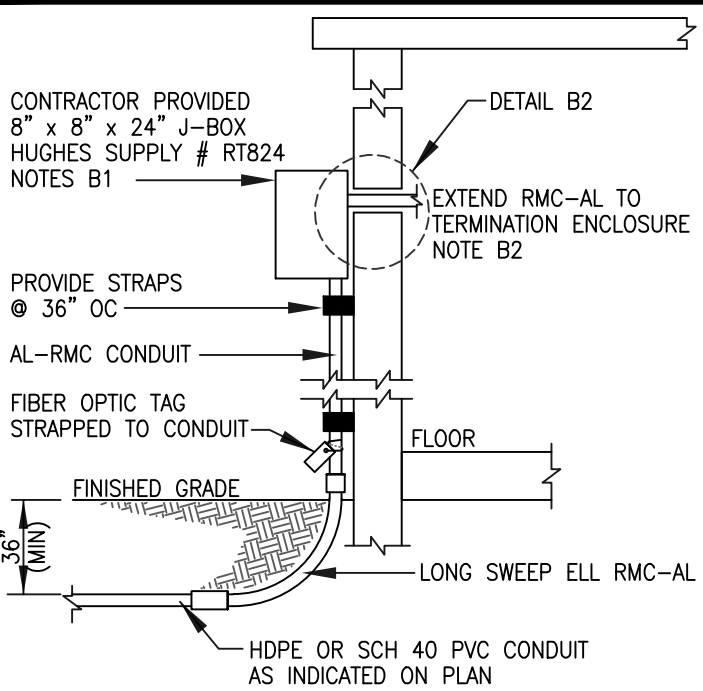


SWITZERLAND SUBSTATION

ENLARGED PLAN

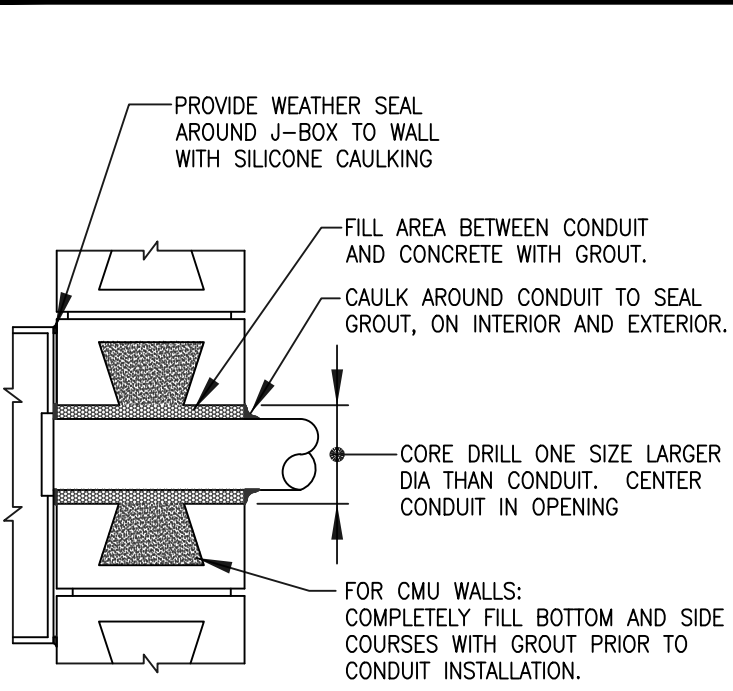


SCALE: 1"=60'



DETAIL B1 – STANDARD FIBER OPTIC  
CONDUIT TO BUILDING ENTRY

NOT TO SCALE



DETAIL B2 – STANDARD BUILDING ENTRY  
CONDUIT PENETRATION AND SEALING

NOT TO SCALE

FIBER OPTIC BUILDING ENTRY NOTES:

- B1. INSTALL 2" PVC FROM POLE BASE TO BUILDING RISER. TRANSITION TO RMC-AL AS SHOWN AND EXTEND UP WALL TO J-BOX APPROX. 5' ABOVE FINISHED GRADE/PAVEMENT.
- B2. ROUTE 2" RMC-AL FROM J-BOX THRU WALL TO TERMINATION LOCATION PER JEA. PROVIDE MINIMUM 50' SLACK CABLE INSIDE BUILDING NEAR TERMINATION POINT.

APPROVED FOR  
CONSTRUCTION

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**BLACK & VEATCH** 12740 Gran Bay Parkway West Suite 2140 Jacksonville, Florida 32258  
CERTIFICATE OF AUTHORIZATION NO. 8132

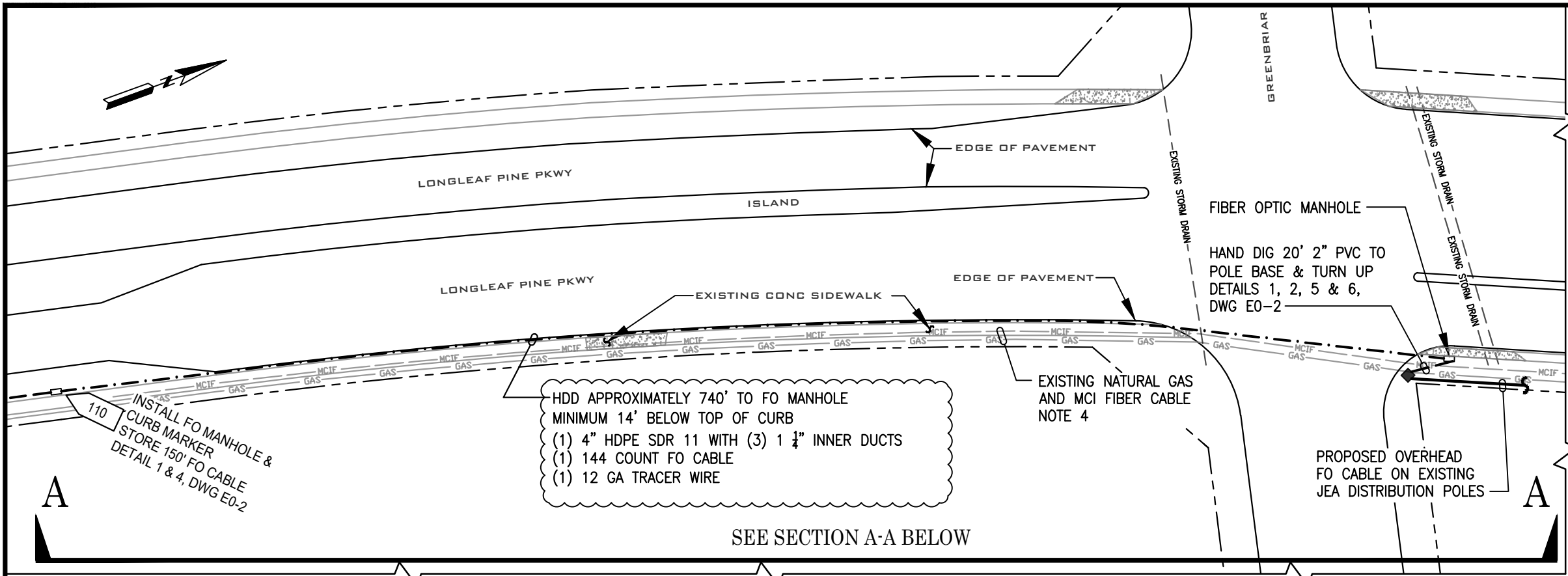
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CONTACTS

PROJECT MANAGER: GREG RAGER  
(904) 665-8136

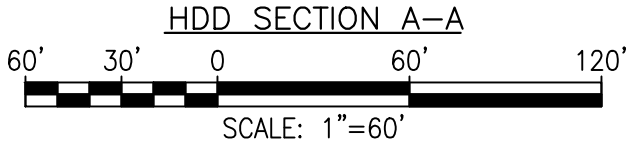
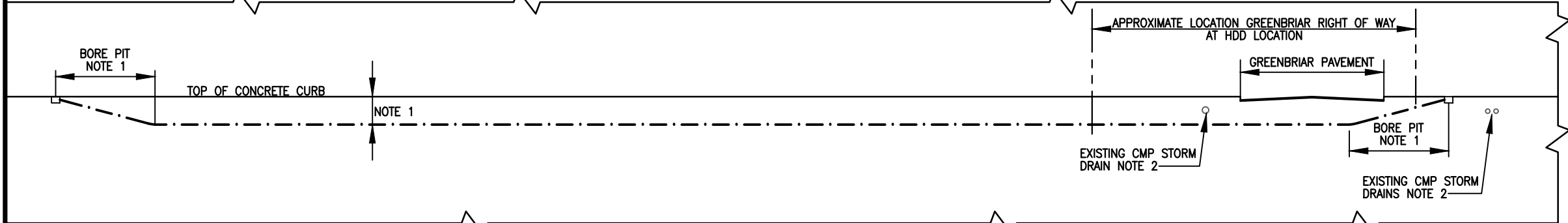
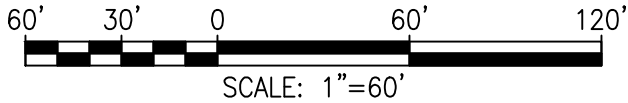
PROJECT DESIGNER: KENT BAUGHER  
(904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: – | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD     | 128 HEDGEROW ST – MLS<br>FIBER OPTIC BUILD<br>FIBER ROUTING PLAN | PROJ PHASE            |
|----|---------------------------|-----|-----------|-------------|---------|---------|---------|------------------------|------------------------------------------------------------------|-----------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |             |         | 4.16 kV | 13.2 kV | DRAWN BY: JKB          | BY DATE                                                          | 0050                  |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |             |         |         |         | DESIGNED BY: JKB       | APR/19                                                           | PROJ NO.<br>400478    |
|    |                           |     |           |             |         |         |         | CHECKED BY:            |                                                                  | DRAWING NO.<br>E2-2   |
|    |                           |     |           |             |         |         |         | APPROVED BY:           |                                                                  | SHEET CNT<br>20 OF 21 |
|    |                           |     |           |             |         |         |         | APPROVED FOR CONST BY: |                                                                  |                       |



- NOTES:
1. SETBACK FOR BORE PIT SHALL BE SUFFICIENT TO MAINTAIN MINIMUM 14' COVER BELOW TOP OF CURB BEFORE AND WHILE CONDUIT IS WITHIN 8' OF EDGE OF PAVEMENT.
  2. INVERT ELEVATION FOR EXISTING SINGLE STORM DRAIN ON SOUTH-EAST SIDE OF GREENBRIAR RD. IS APPROXIMATELY 6 FEET BELOW TOP OF CURB.
  3. INVERT ELEVATION FOR EXISTING (2) STORM DRAINS ON NORTH-EAST SIDE OF GREENBRIAR RD ARE APPROXIMATELY 5 FEET BELOW TOP OF CURB AND ARE NOT IMPACTED BY HDD INSTALLATION.
  4. EXISTING NATURAL GAS LINES SHALL BE LOCATED IN ORDER TO MAINTAIN A MINIMUM CLEARANCE OF 36". MCI FIBER CABLE SHALL BE LOCATED IN ORDER TO MAINTAIN A MINIMUM CLEARANCE OF 24".

HDD FIBER OPTIC CONDUIT CROSSING GREENBRIAR ROAD



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**CONTACTS**  
PROJECT MANAGER: GREG RAGER (904) 665-8136  
PROJECT DESIGNER: KENT BAUGHER (904) 288-4257

| NO | REVISION DESCRIPTION      | BY  | DATE      | ENGINEER: -           | PAGER # | RADIO # | PHONE # | ENGINEERING RECORD     | 128 HEDGEROW ST - MASTER LIFT STATION | PROJ PHASE         |
|----|---------------------------|-----|-----------|-----------------------|---------|---------|---------|------------------------|---------------------------------------|--------------------|
| 0  | APPROVED FOR CONSTRUCTION | JKB | 21/JUN/19 |                       |         | 4.16 kV | 13.2 kV |                        |                                       | 0050               |
| 1  | REVISED AS NOTED          | JKB | 08/JUL/19 |                       |         |         |         |                        |                                       | PROJ NO. 400478    |
|    |                           |     |           | SUBSTATION NAME       |         |         |         | DRAWN BY: JKB          |                                       | DRAWING NO. E3-1   |
|    |                           |     |           | CIRCUIT NUMBER/S      |         |         |         | DESIGNED BY: JKB       |                                       | SHEET CNT 21 OF 21 |
|    |                           |     |           | SWITCH MAP NUMBER/S   |         |         |         | CHECKED BY:            |                                       |                    |
|    |                           |     |           | OVERHEAD MAP NUMBER/S |         |         |         | APPROVED BY:           |                                       |                    |
|    |                           |     |           |                       |         |         |         | APPROVED FOR CONST BY: |                                       |                    |