

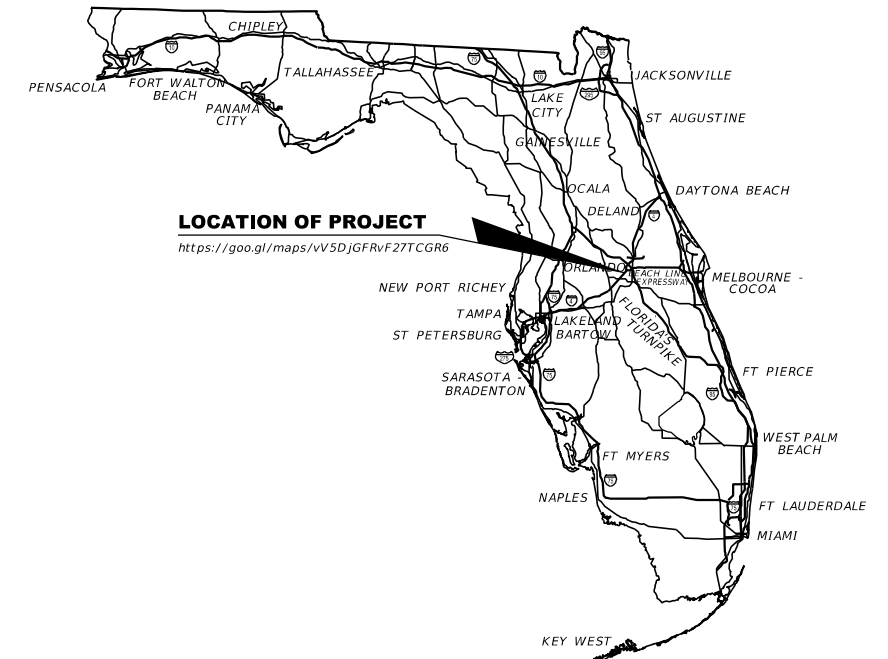
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 441113-1-52-01  
(FEDERAL FUNDS)  
ORANGE COUNTY (75280)  
STATE ROAD NO. 400 (I-4)

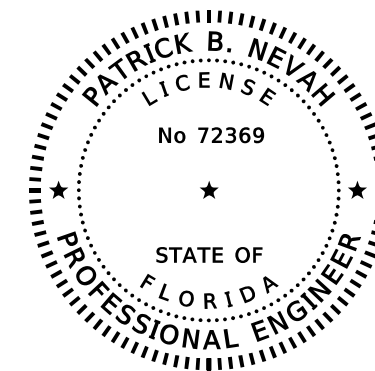
INDEX OF INTELLIGENT TRANSPORTATION SYSTEMS PLANS

|               |                               |
|---------------|-------------------------------|
| SHEET NO.     | SHEET DESCRIPTION             |
| IT-1          | KEY SHEET                     |
| IT-2 - IT-4   | TABULATION OF QUANTITIES      |
| IT-5          | POLE DATA SHEET               |
| IT-6 - IT-8   | PROJECT LAYOUTS               |
| IT-9          | GENERAL NOTES                 |
| IT-10         | LEGEND                        |
| IT-11 - IT-23 | SR 400 (I-4) PLAN SHEETS      |
| IT-24 - IT-27 | DARYL CARTER PKWY PLAN SHEETS |
| IT-28 - IT-29 | SR 535 PLAN SHEETS            |
| IT-30 - IT-31 | POWER SERVICE DETAILS         |
| IT-32 - IT-33 | ITS MOUNTING DETAILS          |
| IT-34         | CLEAR ZONE DETAIL             |
| IT-35         | DIRECTIONAL BORE DETAIL       |
| IT-36 - IT-38 | PULL BOX AND CONDUIT DETAILS  |
| IT-39         | CONCRETE APRON DETAIL         |
| IT-40         | ROUTE MARKER DETAIL           |
| IT-41 - IT-42 | CABINET DETAILS               |
| IT-43 - IT-44 | WIRING DIAGRAMS               |
| IT-45 - IT-50 | SPLICING DIAGRAMS             |
| IT-51         | INTERCONNECT SPLICING DIAGRAM |
| IT-52 - IT-53 | ITS CROSS SECTIONS            |



LOCATION OF PROJECT

<https://goo.gl/maps/vV5DjGFRvF27TCGR6>



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100% (PHASE IV)  
PLANS  
APRIL 2020

INTELLIGENT TRANSPORTATION SYSTEMS PLANS  
ENGINEER OF RECORD:

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SU HAO, P.E.

| CONSTRUCTION CONTRACT NO. | FISCAL YEAR | SHEET NO. |
|---------------------------|-------------|-----------|
| TBD                       | 21          | IT-1      |

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## TABULATION OF QUANTITIES

| PAY ITEM NO. | DESCRIPTION   | UNIT | SHEET NUMBERS |       |       |       |       |       |       |       |       |       |       |       |       |       | TOTAL THIS SHEET |       | GRAND TOTAL |       | REF. SHEET |
|--------------|---|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------------|-------|------------|
|              |   |      | IT-11         |       | IT-12 |       | IT-13 |       | IT-14 |       | IT-15 |       | IT-16 |       | IT-17 |       | PLAN             | FINAL | PLAN        | FINAL |            |
|              |   |      | PLAN          | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL |                  |       |             |       |            |
| 630-2-11     | CONDUITS, FURNISH & INSTALL, OPEN TRENCH                                    | LF   |               |       | 575   |       | 640   |       | 80    |       | 125   |       | 1945  |       | 2563  |       | 5928             |       |             |       |            |
| 630-2-12     | CONDUITS, FURNISH & INSTALL, DIRECTIONAL BORE                               | LF   |               |       | 580   |       | 775   |       | 1400  |       | 1400  |       | 855   |       | 247   |       | 5257             |       |             |       |            |
| 633-1-121    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 12 SM                                  | LF   |               |       | 780   |       |       |       | 220   |       |       |       |       |       |       |       | 1000             |       |             |       |            |
| 633-1-123    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 72 SM                                  | LF   |               |       | 775   |       | 1465  |       | 1600  |       | 1875  |       | 2850  |       | 3060  |       | 11625            |       |             |       |            |
| 633-1-620    | FIBER OPTIC CABLE, REMOVE, UNDERGROUND                                      | LF   |               |       | 575   |       | 1415  |       | 1403  |       | 1530  |       | 2800  |       | 2800  |       | 10523            |       |             |       |            |
| 633-2-31     | FIBER OPTIC CONN, INSTALL, SPLICE   | EA   |               |       | 80    |       |       |       | 20    |       | 76    |       |       |       |       |       | 176              |       |             |       |            |
| 633-2-32     | FIBER OPTIC CONNECTION, INSTALL, TERMINATION                                | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 633-3-11     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE ENCLOSURE                            | EA   |               |       | 1     |       |       |       | 2     |       | 1     |       |       |       |       |       | 4                |       |             |       |            |
| 633-3-12     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE TRAY                                 | EA   |               |       | 6     |       |       |       | 3     |       | 6     |       |       |       |       |       | 15               |       |             |       |            |
| 633-3-13     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY      | EA   |               |       |       |       |       |       | 12    |       |       |       |       |       |       |       | 12               |       |             |       |            |
| 633-3-15     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL             | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 633-3-16     | FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED         | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 633-3-51     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE                  | EA   |               |       | 1     |       |       |       |       |       | 1     |       |       |       |       |       | 2                |       |             |       |            |
| 633-3-52     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE TRAY                       | EA   |               |       | 1     |       |       |       |       |       | 3     |       |       |       |       |       | 4                |       |             |       |            |
| 633-3-55     | FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 633-8-1      | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL                      | LF   |               |       |       |       |       |       | 120   |       |       |       |       |       |       |       | 120              |       |             |       |            |
| 635-2-11     | PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE                                | EA   |               |       |       |       |       |       | 3     |       |       |       |       |       |       |       | 3                |       |             |       |            |
| 635-2-12     | PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE                                | EA   |               |       | 1     |       | 1     |       |       |       | 1     |       | 1     |       | 1     |       | 5                |       |             |       |            |
| 635-2-13     | PULL & SPLICE BOX, F&I, 36" ROUND COVER SIZE                                | EA   |               |       | 1     |       |       |       | 2     |       |       |       |       |       | 1     |       | 4                |       |             |       |            |
| 635-3-13     | JUNCTION BOX, FURNISH & INSTALL, EMBEDDED                                   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 639-1-122    | ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR   | AS   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 639-1-620    | ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND                                | AS   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 639-2-1      | ELECTRICAL SERVICE WIRE, F&I  | LF   |               |       |       |       |       |       | 20    |       |       |       |       |       |       |       | 20               |       |             |       |            |
| 639-3-11     | ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT                              | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 641-2-11     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL                          | EA   |               |       |       |       |       |       | 2     |       |       |       |       |       |       |       | 2                |       |             |       |            |
| 641-2-14     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV                                   | EA   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 641-2-80     | PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER      | EA   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 641-3-263    | CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'          | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 641-3-800    | CONCRETE CCTV POLE, COMPLETE POLE REMOVAL                                   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 660-3-42     | VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT      | EA   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 676-2-400    | ITS CABINET, RELOCATE   | EA   |               |       |       |       |       |       | 1     |       |       |       |       |       |       |       | 1                |       |             |       |            |
| 682-1-113    | ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 682-1-400    | ITS CCTV CAMERA, RELOCATE   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |
| 684-1-1      | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL                            | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0                |       |             |       |            |

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|-----------|-------------|------|-------------|--|--|--------|----------------------|-------------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                     |           |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                     |           |

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## TABULATION OF QUANTITIES

| PAY ITEM NO. | DESCRIPTION   | UNIT | SHEET NUMBERS |       |       |       |       |       |       |       |       |       |       |       |       |  | TOTAL THIS SHEET |       | GRAND TOTAL |       | REF. SHEET |
|--------------|---|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|------------------|-------|-------------|-------|------------|
|              |   |      | IT-18         |       | IT-19 |       | IT-20 |       | IT-21 |       | IT-22 |       | IT-23 |       | IT-24 |  | PLAN             | FINAL | PLAN        | FINAL |            |
|              |   |      | PLAN          | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL |       |  |                  |       |             |       |            |
| 630-2-11     | CONDUITS, FURNISH & INSTALL, OPEN TRENCH                                    | LF   | 1245          |       | 730   |       | 1800  |       | 850   |       | 825   |       | 55    |       | 660   |  | 6165             |       |             |       |            |
| 630-2-12     | CONDUITS, FURNISH & INSTALL, DIRECTIONAL BORE                               | LF   | 555           |       | 1940  |       | 1000  |       | 1965  |       | 2000  |       | 1125  |       | 1550  |  | 10135            |       |             |       |            |
| 633-1-121    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 12 SM                                  | LF   | 50            |       | 1025  |       |       |       |       |       |       |       |       |       | 2150  |  | 3225             |       |             |       |            |
| 633-1-123    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 72 SM                                  | LF   | 2050          |       | 2370  |       | 2900  |       | 3115  |       | 2535  |       | 1680  |       | 1605  |  | 16255            |       |             |       |            |
| 633-1-620    | FIBER OPTIC CABLE, REMOVE, UNDERGROUND                                      | LF   | 1800          |       | 2200  |       | 2800  |       | 2420  |       | 3320  |       | 1380  |       | 1400  |  | 15320            |       |             |       |            |
| 633-2-31     | FIBER OPTIC CONN, INSTALL, SPLICE   | EA   |               |       |       |       |       |       | 4     |       |       |       | 146   |       | 12    |  | 162              |       |             |       |            |
| 633-2-32     | FIBER OPTIC CONNECTION, INSTALL, TERMINATION                                | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 633-3-11     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE ENCLOSURE                            | EA   |               |       |       |       |       |       | 1     |       |       |       | 2     |       | 1     |  | 4                |       |             |       |            |
| 633-3-12     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE TRAY                                 | EA   |               |       |       |       |       |       | 1     |       |       |       | 12    |       | 5     |  | 18               |       |             |       |            |
| 633-3-13     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY      | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 24    |  | 24               |       |             |       |            |
| 633-3-15     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL             | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 633-3-16     | FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED         | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 2     |  | 2                |       |             |       |            |
| 633-3-51     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE                  | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 633-3-52     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE TRAY                       | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 633-3-55     | FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 633-8-1      | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL                      | LF   |               |       |       |       |       |       |       |       |       |       |       |       | 60    |  | 60               |       |             |       |            |
| 635-2-11     | PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE                                | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 635-2-12     | PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE                                | EA   | 6             |       | 5     |       | 2     |       | 2     |       | 3     |       | 2     |       | 4     |  | 24               |       |             |       |            |
| 635-2-13     | PULL & SPLICE BOX, F&I, 36" ROUND COVER SIZE                                | EA   |               |       |       |       |       |       |       |       |       |       | 1     |       | 1     |  | 2                |       |             |       |            |
| 635-3-13     | JUNCTION BOX, FURNISH & INSTALL, EMBEDDED                                   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 639-1-122    | ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR   | AS   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 639-1-620    | ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND                                | AS   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 639-2-1      | ELECTRICAL SERVICE WIRE, F&I  | LF   |               |       |       |       |       |       |       |       |       |       |       |       | 185   |  | 185              |       |             |       |            |
| 639-3-11     | ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT                              | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 641-2-11     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL                          | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 641-2-14     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV                                   | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 641-2-80     | PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER      | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 641-3-263    | CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'          | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 641-3-800    | CONCRETE CCTV POLE, COMPLETE POLE REMOVAL                                   | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 660-3-42     | VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT      | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 676-2-400    | ITS CABINET, RELOCATE   | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 682-1-113    | ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |
| 682-1-400    | ITS CCTV CAMERA, RELOCATE   | EA   |               |       |       |       |       |       |       |       |       |       |       |       | 1     |  | 1                |       |             |       |            |
| 684-1-1      | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL                            | EA   |               |       |       |       |       |       |       |       |       |       |       |       |       |  | 0                |       |             |       |            |

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|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                              |                       |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                              |                       |

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## TABULATION OF QUANTITIES

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|              |   |      | IT-25 |       | IT-26 |       | IT-27 |       | IT-28 |       | IT-29 |       |  |  |  |      | PLAN             | FINAL | PLAN        | FINAL |            |
|              |   |      | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL | PLAN  | FINAL |  |  |  |      |                  |       |             |       |            |
| 630-2-11     | CONDUITS, FURNISH & INSTALL, OPEN TRENCH                                    | LF   | 15    |       | 345   |       | 465   |       |       |       |       |       |  |  |  | 825  |                  | 12918 |             |       |            |
| 630-2-12     | CONDUITS, FURNISH & INSTALL, DIRECTIONAL BORE                               | LF   | 205   |       | 541   |       | 380   |       |       |       |       |       |  |  |  | 1126 |                  | 16518 |             |       |            |
| 633-1-121    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 12 SM                                  | LF   | 355   |       | 590   |       | 340   |       |       |       |       |       |  |  |  | 1285 |                  | 5510  |             |       |            |
| 633-1-123    | FIBER OPTIC CABLE, F&I, UNDERGROUND, 72 SM                                  | LF   | 1650  |       | 406   |       | 1105  |       |       |       |       |       |  |  |  | 3161 |                  | 31041 |             |       |            |
| 633-1-620    | FIBER OPTIC CABLE, REMOVE, UNDERGROUND                                      | LF   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 25843 |             |       |            |
| 633-2-31     | FIBER OPTIC CONN, INSTALL, SPLICE   | EA   | 12    |       |       |       | 6     |       |       |       |       |       |  |  |  | 18   |                  | 356   |             |       |            |
| 633-2-32     | FIBER OPTIC CONNECTION, INSTALL, TERMINATION                                | EA   | 24    |       |       |       | 12    |       |       |       |       |       |  |  |  | 36   |                  | 36    |             |       |            |
| 633-3-11     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE ENCLOSURE                            | EA   | 2     |       |       |       | 1     |       |       |       |       |       |  |  |  | 3    |                  | 11    |             |       |            |
| 633-3-12     | FIBER OPTIC CONN HARDWARE, F&I, SPLICE TRAY                                 | EA   | 2     |       | 1     |       | 1     |       |       |       |       |       |  |  |  | 4    |                  | 37    |             |       |            |
| 633-3-13     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY      | EA   |       |       | 12    |       |       |       |       |       |       |       |  |  |  | 12   |                  | 48    |             |       |            |
| 633-3-15     | FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL             | EA   | 2     |       |       |       | 1     |       |       |       |       |       |  |  |  | 3    |                  | 3     |             |       |            |
| 633-3-16     | FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED         | EA   |       |       | 1     |       | 1     |       |       |       |       |       |  |  |  | 2    |                  | 4     |             |       |            |
| 633-3-51     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE                  | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 2     |             |       |            |
| 633-3-52     | FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE TRAY                       | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 4     |             |       |            |
| 633-3-55     | FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED   | EA   |       |       |       |       |       |       |       |       | 12    |       |  |  |  | 12   |                  | 12    |             |       |            |
| 633-8-1      | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL                      | LF   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 180   |             |       |            |
| 635-2-11     | PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE                                | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 4     |             |       |            |
| 635-2-12     | PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE                                | EA   | 2     |       | 1     |       | 2     |       |       |       |       |       |  |  |  | 5    |                  | 34    |             |       |            |
| 635-2-13     | PULL & SPLICE BOX, F&I, 36" ROUND COVER SIZE                                | EA   | 2     |       |       |       | 1     |       |       |       |       |       |  |  |  | 3    |                  | 9     |             |       |            |
| 635-3-13     | JUNCTION BOX, FURNISH & INSTALL, EMBEDDED                                   | EA   | 4     |       |       |       | 2     |       |       |       |       |       |  |  |  | 6    |                  | 6     |             |       |            |
| 639-1-122    | ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR   | AS   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 639-1-620    | ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND                                | AS   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 639-2-1      | ELECTRICAL SERVICE WIRE, F&I  | LF   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 205   |             |       |            |
| 639-3-11     | ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT                              | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 641-2-11     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL                          | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 3     |             |       |            |
| 641-2-14     | PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV                                   | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 641-2-80     | PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER      | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 641-3-263    | CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'          | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 641-3-800    | CONCRETE CCTV POLE, COMPLETE POLE REMOVAL                                   | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 660-3-42     | VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT      | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 2     |             |       |            |
| 676-2-400    | ITS CABINET, RELOCATE   | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 2     |             |       |            |
| 682-1-113    | ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION | EA   | 1     |       |       |       | 1     |       |       |       |       |       |  |  |  | 2    |                  | 2     |             |       |            |
| 682-1-400    | ITS CCTV CAMERA, RELOCATE   | EA   |       |       |       |       |       |       |       |       |       |       |  |  |  | 0    |                  | 1     |             |       |            |
| 684-1-1      | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL                            | EA   | 1     |       |       |       | 1     |       |       |       |       |       |  |  |  | 2    |                  | 2     |             |       |            |

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|-----------|-------------|------|-------------|--|--|--------|----------------------|-------------------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                     |                       |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                     |                       |

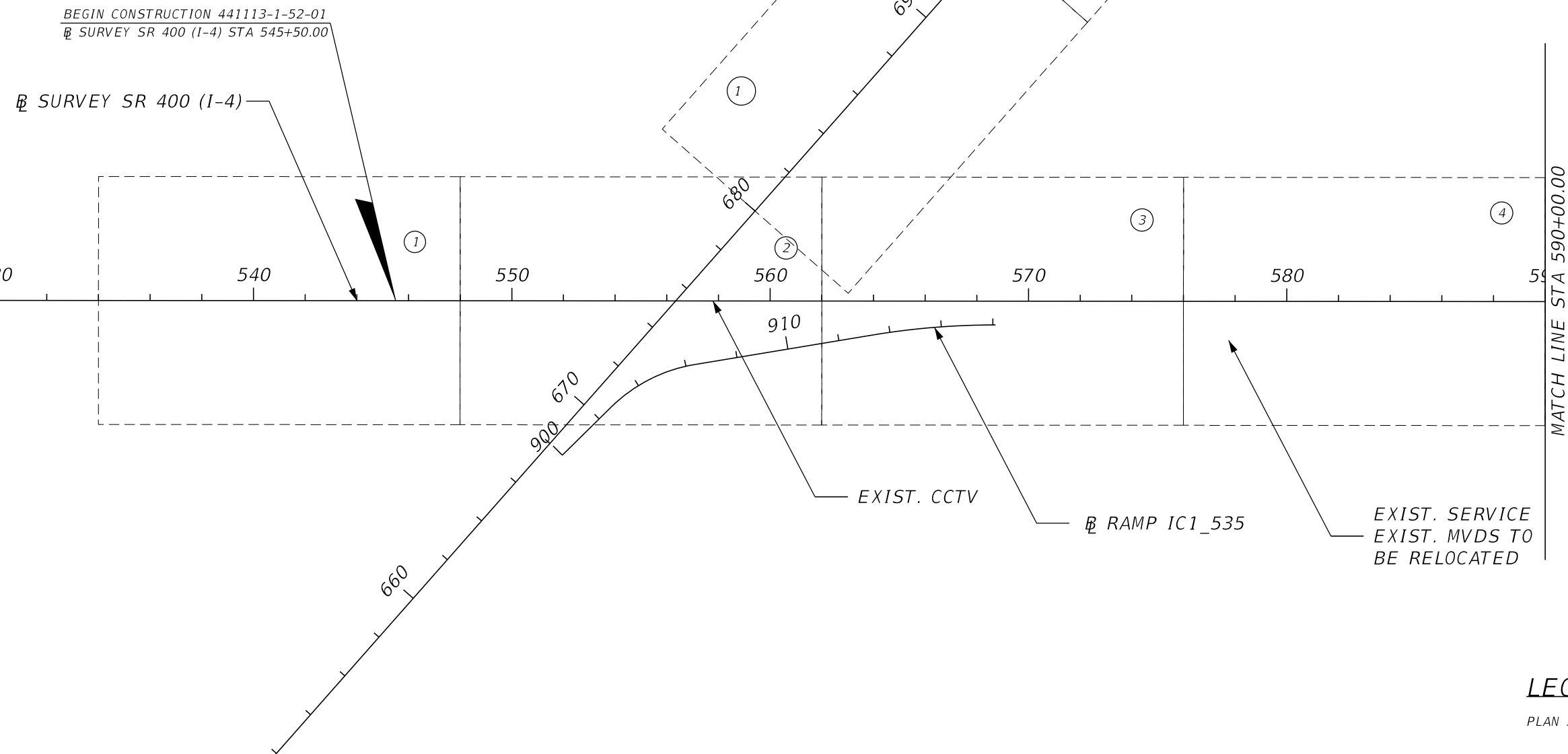
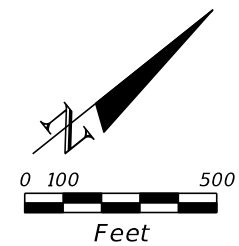
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| DEVICE                       | STATION | PLAN SHEET | POLE CENTER OFFSET | POLE LENGTH (FT) | POLE EMBEDMENT DEPTH (FT) | EXPOSED POLE LENGTH (FT) | POLE ELEV. (FT) | CCTV MOUNTING HEIGHT (FT) | MVDS MOUNTING HEIGHT |
|------------------------------|---------|------------|--------------------|------------------|---------------------------|--------------------------|-----------------|---------------------------|----------------------|
| MVDS 400-68.3                | 577+00  | IT-14      | 215.85' RT         | XX'              | XX'                       | 30'                      | 134.75          | 49'                       | 24'                  |
| CCTV 400-69.7, MVDS 400-69.7 | 644+16  | IT-24      | 142' RT            | 63'              | 13'                       | 50'                      | 132.1           | 49'                       | 39'                  |
| CCTV DCP-1                   | 108+55  | IT-24      | 42' LT             |                  |                           |                          |                 |                           |                      |
| CCTV DCP-2                   | 115+20  | IT-25      | 38' LT             |                  |                           |                          |                 |                           |                      |

NOTE:  
CCTV DCP-1 AND CCTV DCP-2 ARE TO BE MOUNTED ON PROPOSED SIGNAL POLE MAST ARMS. REFER TO MAST ARM TABULATION SHEET IN SIGNALIZATION PLANS FOR CCTV LOCATIONS. REFER TO ITS MOUNTING DETAILS FOR MORE INFORMATION.

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|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                        |                       |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                        |                       |



BEGIN CONSTRUCTION 441113-1-52-01  
 SURVEY SR 400 (I-4) STA 545+50.00

SURVEY SR 400 (I-4)

SURVEY SR 535

EXIST. CCTV

RAMP IC1\_535

EXIST. SERVICE  
 EXIST. MVDS TO  
 BE RELOCATED

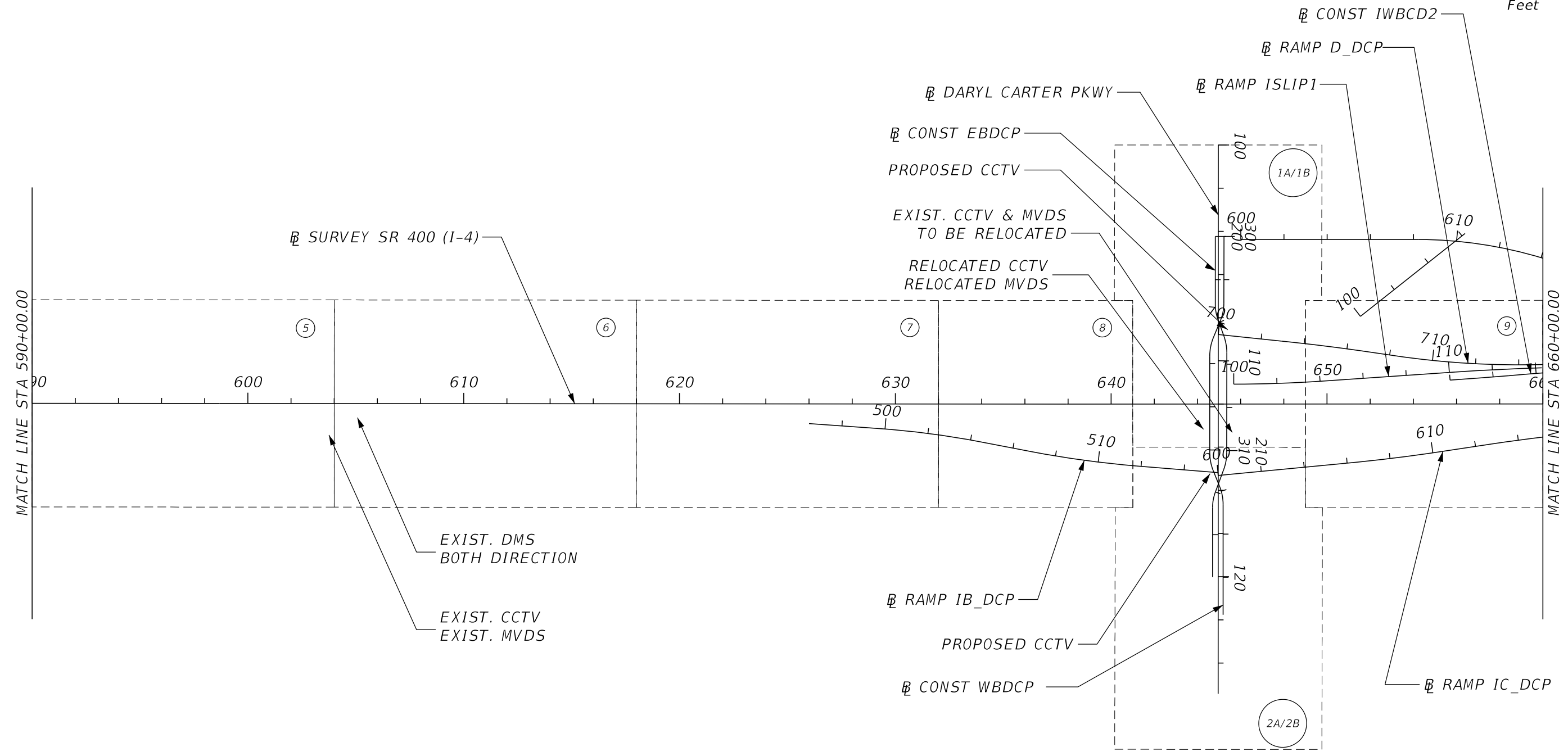
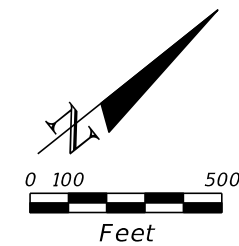
MATCH LINE STA 590+00.00

**LEGEND**

PLAN SHEET NO. (X)

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>PROJECT LAYOUT (1)</b> | SHEET<br>NO.<br><br><b>IT-6</b> |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---------------------------|---------------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                           |                                 |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                           |                                 |

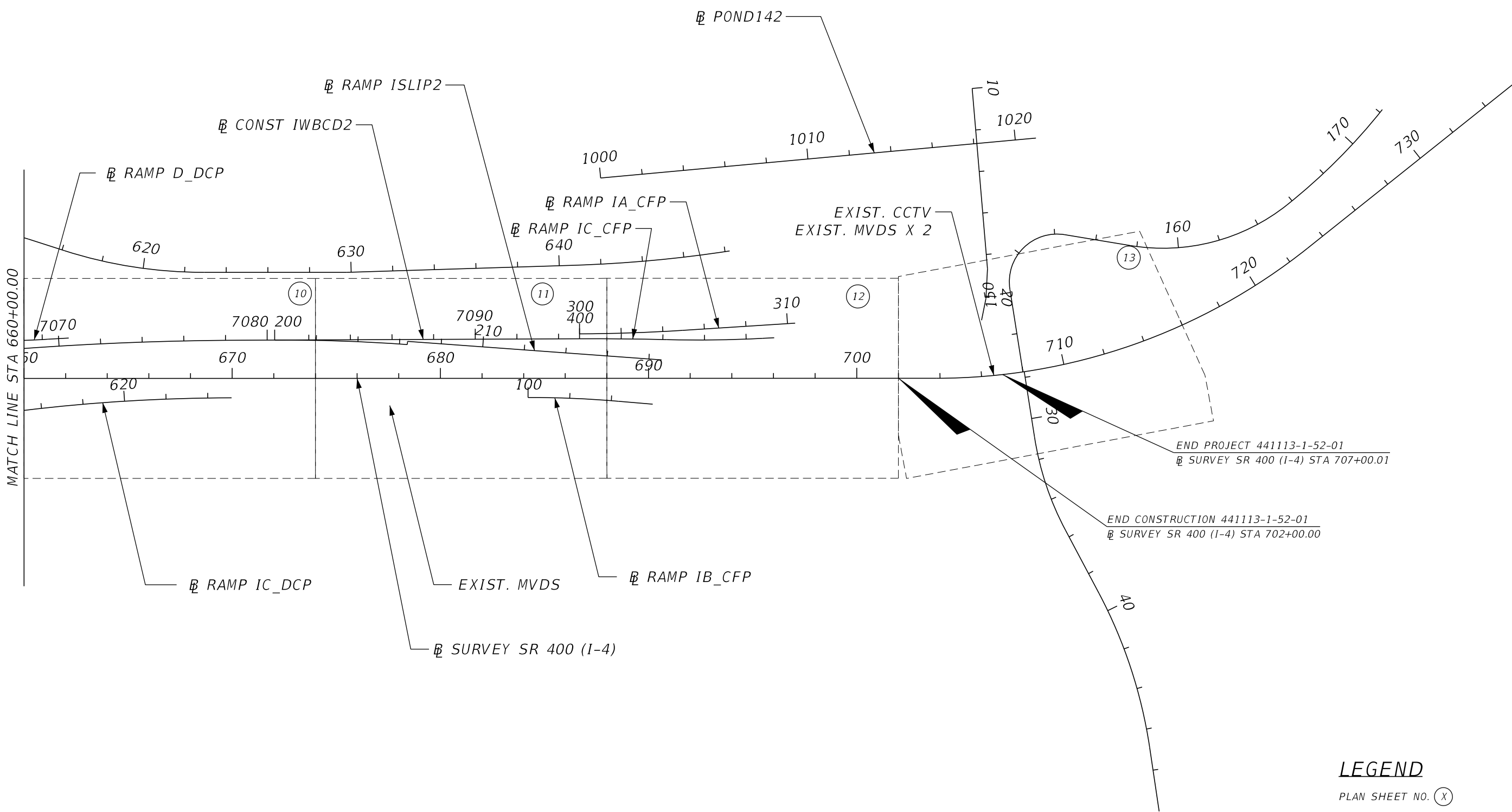
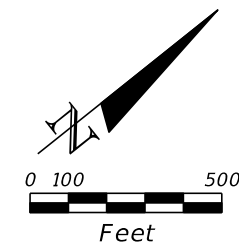
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**LEGEND**  
PLAN SHEET NO. (X)

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>PROJECT LAYOUT (2)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                           |           |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                           | IT-7      |

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**LEGEND**  
 PLAN SHEET NO. (X)

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>PROJECT LAYOUT (3)</b> | SHEET NO.<br><b>IT-8</b> |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---------------------------|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                           |                          |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                           |                          |

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GENERAL:

1. THE CONTRACTOR SHALL INFORM CENTURYLINK 90 DAYS PRIOR TO THE END OF CONSTRUCTION ACTIVITIES AND TESTING.

CONDUIT:

1. HDPE CONDUIT COLOR CODES:

-BACKBONE (4-1.25"):

1. ORANGE (FIBER & COMPOSITE IF REQUIRED)
2. ORANGE W/ WHITE STRIPE (TONE WIRE)
3. ORANGE (SPARE WIRE)
4. ORANGE (SPARE WIRE)

-DROP CABLE (2-1.25"):

1. ORANGE (FIBER & COMPOSITE IF REQUIRED)
2. ORANGE W/ WHITE STRIPE (TONE WIRE)

-POWER (1.25" OR LARGER) (SEE PLAN SHEETS SIZE & NUMBER MAY VARY):

1. RED
2. RED W/ WHITE STRIPE (SPARE)

PAY ITEM NOTES:

1. 633-3-15 SHALL INCLUDE A FIBER CABLE LONG ENOUGH TO TRANSITION FROM THE PATCH PANEL TO THE SPLICE VAULT INCLUDING 50 LF OF COILED SLACK IN ALL PULL BOXES AND SPLICE VAULTS; THE DROP CABLE FIBER IS PAID FOR SEPERATELY BUT MUST BE CONTINUOUS. THIS PAY ITEM ALSO INCLUDES FIBER OPTIC CABLE JUMPERS AS REQUIRED BY THE PLANS, EQUIPMENT, AND PATCH PANELS INSTALLED. THE CABLES SHALL BE SIZED TO LENGTH (3' MINIMUM). ALL FIBER CONNECTIONS SHALL UTILIZE SC CONNECTORS.
2. 635-2-11, 635-2-12 AND 635-2-13: ALL PULL AND SPLICE BOXES INSTALLED IN ROADWAY SHOULDERS SHALL BE TRAFFIC LOAD BEARING MEETING REQUIREMENTS OF AASHTO H-20.
3. 635-3-13 SHALL BE TYPE EJB "B" PER FDOT STANDARD PLANS INDEX 630-010, SHEET 1 OF 4.
4. 676-2-400 RELOCATED CABINET SHALL INCLUDE RELOCATION OF ALL CABINET EQUIPMENTS. COST SHALL ALSO INCLUDE NEW CONCRETE CABINET PAD FOUNDATION.

UTILITY NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED WITH THE UTILITY ADJUSTMENT PLAN SET.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FDOT OWNED UTILITIES AND FACILITIES INCLUDING BUT NOT LIMITED TO UNDERGROUND LIGHTING AND DRAINAGE STRUCTURES PRIOR TO DIGGING.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | SHEET NO.<br><br>IT-9 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                       |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                       |

GENERAL NOTES

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**ABBREVIATIONS:**

|  |  |
|--|--|
| AVI = AUTOMATIC VEHICLE IDENTIFICATION   | HDPE = HIGH DENSITY POLYETHYLENE CONDUIT                     |
| BB = BACKBONE                            | INSP = INSPECTION  |
| CAB = CABINET                            | L/A = LIMITED ACCESS   |
| CCTV = CLOSED CIRCUIT TELEVISION         | LHUB = LOCAL HUB   |
| CLD = CAMERA LOWERING DEVICE             | LOC = LOCATE   |
| COAX = COAXIAL                           | LOW = LOWERING   |
| COMM = COMMUNICATIONS                    | MFS = MANAGED FIELD SWITCH                                   |
| CONN = CONNECTION                        | MKR = MARKER   |
| DIRECT. = DIRECTIONAL                    | MVDS = MICROWAVE VEHICLE DETECTION SYSTEM                    |
| DISC = DISCONNECT                        | NB = NORTHBOUND  |
| DMS = DYNAMIC MESSAGE SIGN               | PRETERM = PRE-TERMINATED                                     |
| EDMS = EMBEDDED DMS                      | RGS = RIGID GALVANIZED STEEL                                 |
| EJB = ELECTRICAL JUNCTION BOX (EMBEDDED) | RU = RACK UNIT   |
| ELEC = ELECTRICAL                        | RWIS = ROAD WEATHER INFORMATION SYSTEMS                      |
| ENCLOS = ENCLOSURE                       | SB = SOUTHBOUND  |
| EOTL = EDGE OF TRAVEL LANE               | SD TXFMR = STEP DOWN TRANSFORMER                             |
| EPB = ELECTRICAL PULL BOX                | SERV = SERVICE   |
| EQUIP = EQUIPMENT                        | SPD = SURGE PROTECTION DEVICE                                |
| ESP = ELECTRICAL SERVICE POINT           | STL = STEEL  |
| E/W = EQUIPPED WITH                      | STR = STRAND   |
| EXIST. = EXISTING                        | STRUC = STRUCTURE  |
| FJB = FIBER JUNCTION BOX (EMBEDDED)      | SV = SPLICE VAULT  |
| FO = FIBER OPTIC                         | S. WARE = SOFTWARE   |
| FOC = FIBER OPTIC CABLE                  | TTS = TRAVEL TIME SYSTEM                                     |
| FOE = FIBER OPTIC & ELECTRICAL CABLE     | RFID TTS = RADIO FREQUENCY IDENTIFICATION TRAVEL TIME SYSTEM |
| FPB = FIBER PULL BOX                     | BT TTS = BLUETOOTH TRAVEL TIME SYSTEM                        |
| FTE = FLORIDA'S TURNPIKE ENTERPRISE      | TYP = TYPICAL  |
| GND = GROUND                             | U. GROUND = UNDERGROUND                                      |
| GND MT = GROUND MOUNT                    | V-CCTV = VALIDATION CCTV CAMERA                              |
| HARB = HAR BEACON                        | VDS = VEHICLE DETECTION SYSTEM                               |
| HARD = HARDWARE                          | VID = VIDEO  |
| HAR = HIGHWAY ADVISORY RADIO             |  |
| HD = HIGH DEFINITION                     |  |

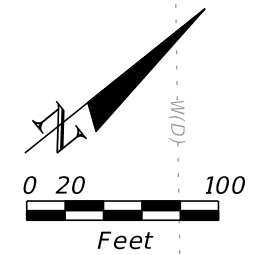
**SYMBOLS:**

| PROPOSED | EXISTING | DESCRIPTION                  |
|----------|----------|------------------------------|
|          |          | CCTV                         |
|          |          | MVDS                         |
|          |          | MVDS DETECTION ZONES         |
|          |          | CANTILEVER STRUCTURE         |
|          |          |                              |
|          |          | ELECTRICAL PULL BOX          |
|          |          | FIBER OPTIC PULL BOX         |
|          |          | FIBER OPTIC SPLICE VAULT     |
|          |          | CABINET                      |
|          |          | CABINET (GROUND MOUNTED)     |
|          |          | POLE                         |
|          |          | CCTV CONCRETE POLE           |
|          |          | EXISTING UNDERGROUND CONDUIT |
|          |          | PROPOSED TRENCH              |
|          |          | PROPOSED DIRECTIONAL BORE    |
|          |          | EXISTING FENCE               |
|          |          | DMS                          |

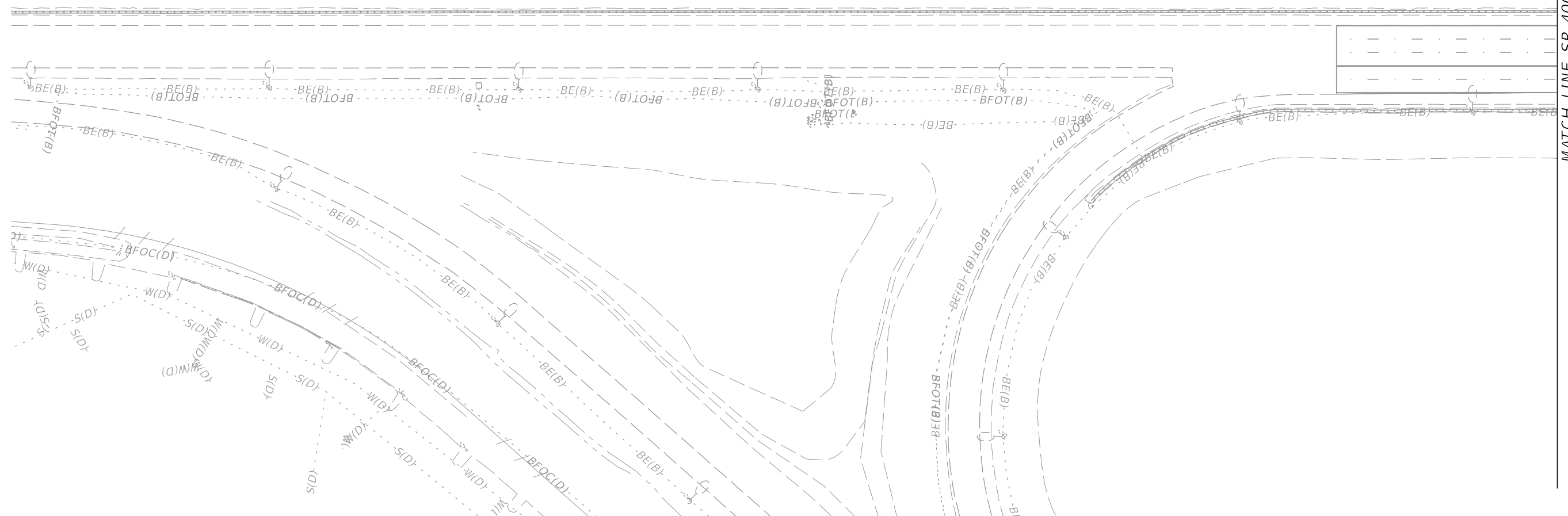
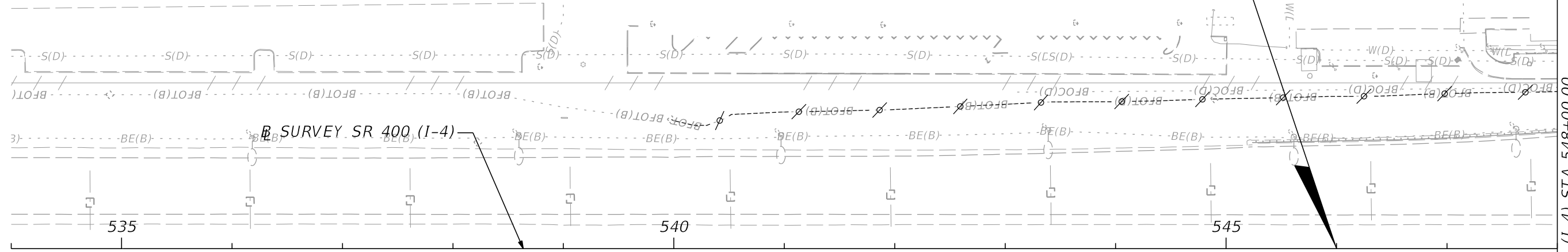
\*NOTE: EXISTING FEATURES TO REMAIN, UNLESS OTHERWISE NOTED ON PLAN SHEET

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|-----------|-------------|------|-------------|--|--|--------|----------------------|---|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |   |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |   |

PLEASE NOTE  
 NO WORK TO BE COMPLETED ON THIS SHEET.  
 THIS SHEET IS FOR REFERNECE ONLY.

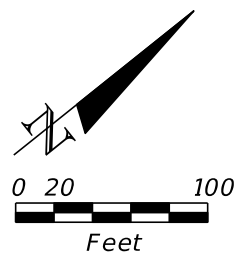


BEGIN PROJECT 441113-1-52-01  
 BEGIN CONSTRUCTION 441113-1-52-01  
 SURVEY SR 400 (I-4) STA 546+00.00



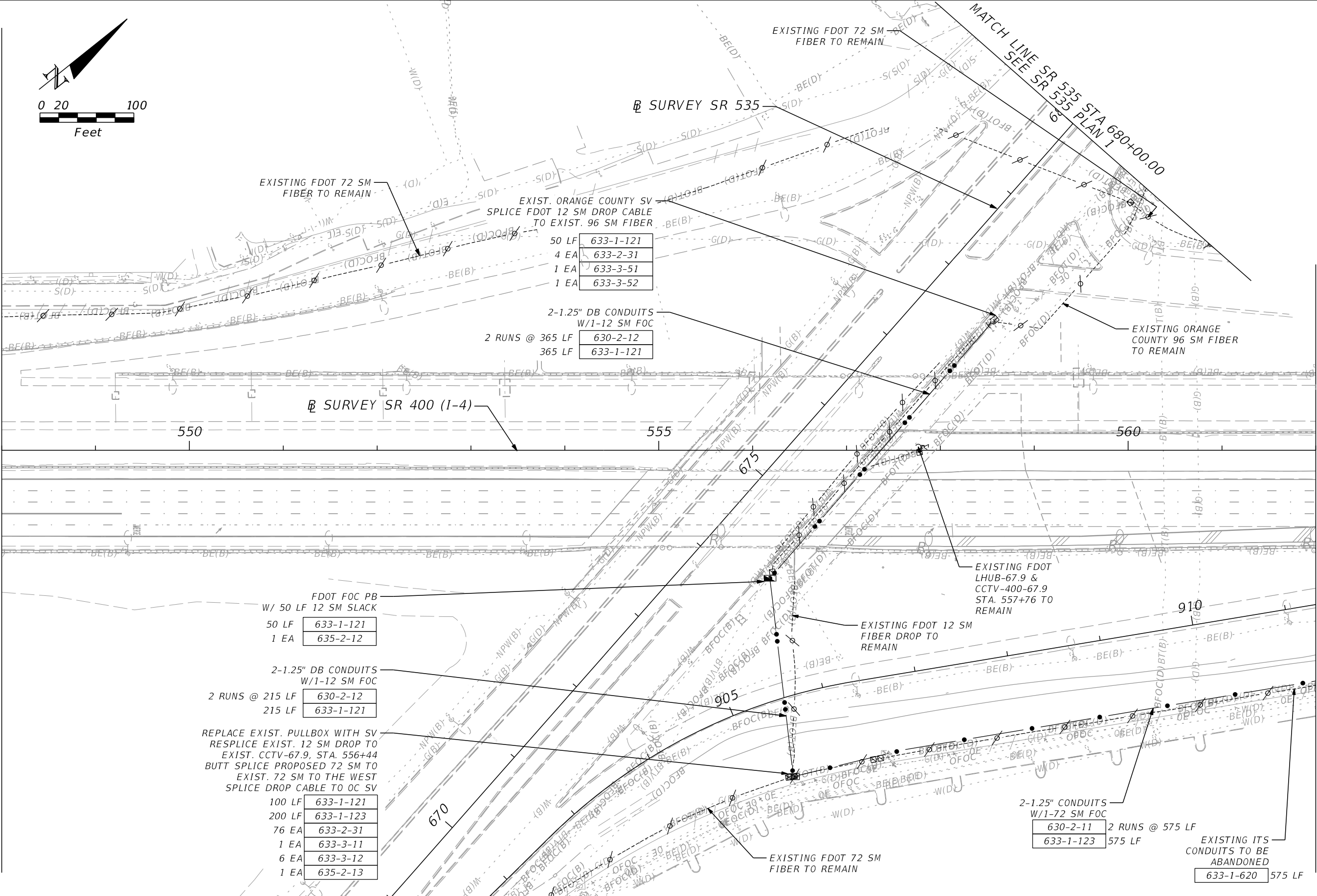
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|-----------|-------------|------|-------------|--|--|--------|----------------------|-----------------------|---------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                       |                           |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                       |                           |

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MATCH LINE SR 400 (I-4) STA 548+00.00

MATCH LINE SR 400 (I-4) STA 562+00.00



|       |           |
|-------|-----------|
| 50 LF | 633-1-121 |
| 4 EA  | 633-2-31  |
| 1 EA  | 633-3-51  |
| 1 EA  | 633-3-52  |

2-1.25" DB CONDUITS  
W/1-12 SM FOC

|                 |           |
|-----------------|-----------|
| 2 RUNS @ 365 LF | 630-2-12  |
| 365 LF          | 633-1-121 |

FDOT FOC PB  
W/ 50 LF 12 SM SLACK

|       |           |
|-------|-----------|
| 50 LF | 633-1-121 |
| 1 EA  | 635-2-12  |

2-1.25" DB CONDUITS  
W/1-12 SM FOC

|                 |           |
|-----------------|-----------|
| 2 RUNS @ 215 LF | 630-2-12  |
| 215 LF          | 633-1-121 |

REPLACE EXIST. PULLBOX WITH SV  
RESPLICE EXIST. 12 SM DROP TO  
EXIST. CCTV-67.9, STA. 556+44  
BUTT SPLICE PROPOSED 72 SM TO  
EXIST. 72 SM TO THE WEST  
SPLICE DROP CABLE TO OC SV

|        |           |
|--------|-----------|
| 100 LF | 633-1-121 |
| 200 LF | 633-1-123 |
| 76 EA  | 633-2-31  |
| 1 EA   | 633-3-11  |
| 6 EA   | 633-3-12  |
| 1 EA   | 635-2-13  |

2-1.25" CONDUITS  
W/1-72 SM FOC

|           |                 |
|-----------|-----------------|
| 630-2-11  | 2 RUNS @ 575 LF |
| 633-1-123 | 575 LF          |

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|           |        |
|-----------|--------|
| 633-1-620 | 575 LF |
|-----------|--------|

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

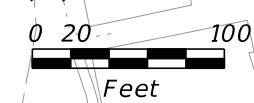
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| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 2**

SHEET NO.  
**IT-12**

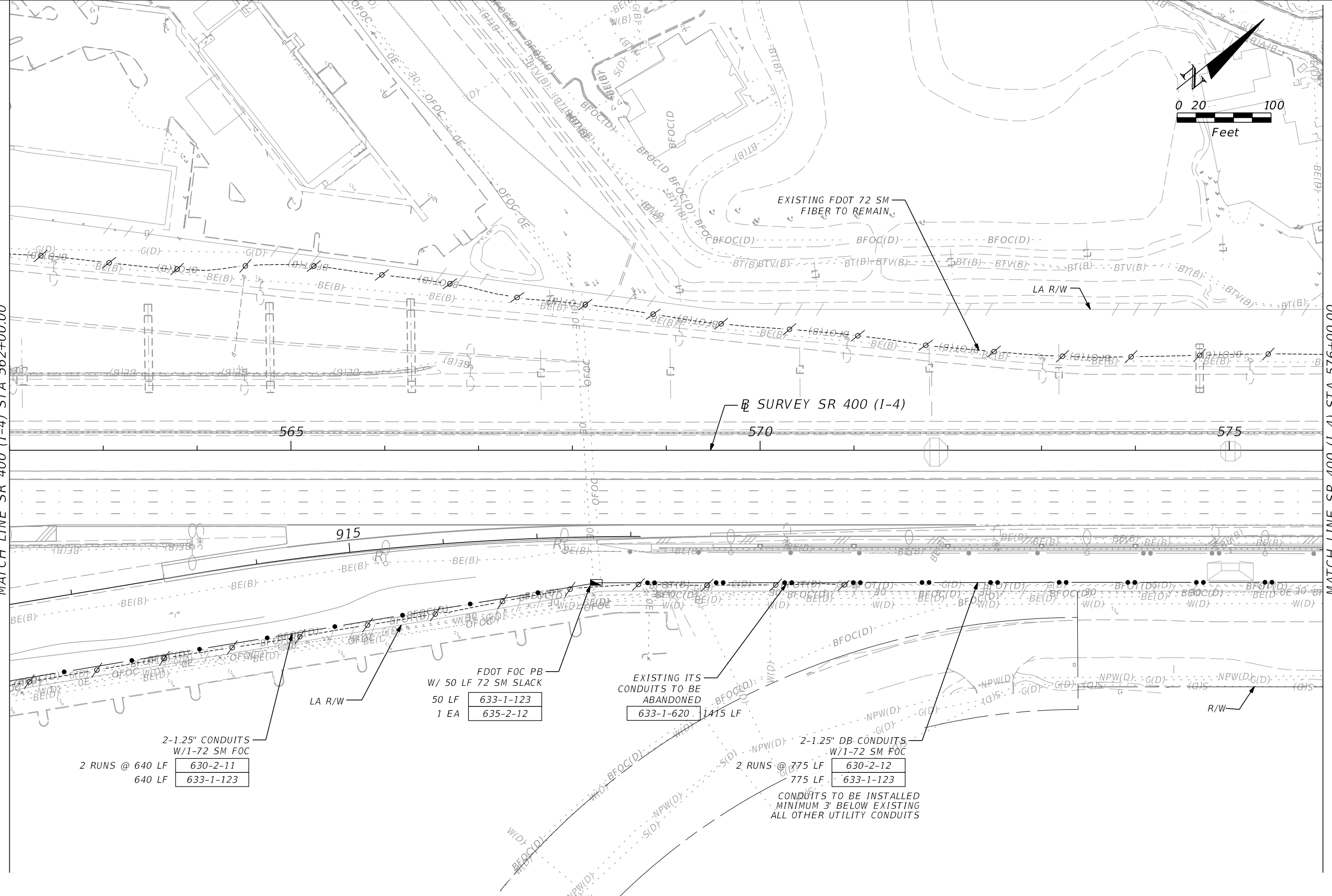
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MATCH LINE SR 400 (I-4) STA 562+00.00

MATCH LINE SR 400 (I-4) STA 576+00.00



2-1.25" CONDUITS  
W/1-72 SM FOC  
2 RUNS @ 640 LF 

|          |
|----------|
| 630-2-11 |
|----------|

  
640 LF 

|           |
|-----------|
| 633-1-123 |
|-----------|

FDOT FOC PB  
W/ 50 LF 72 SM SLACK  
50 LF 

|           |
|-----------|
| 633-1-123 |
|-----------|

  
1 EA 

|          |
|----------|
| 635-2-12 |
|----------|

EXISTING ITS  
CONDUITS TO BE  
ABANDONED  

|           |
|-----------|
| 633-1-620 |
|-----------|

 1415 LF

2-1.25" DB CONDUITS  
W/1-72 SM FOC  
2 RUNS @ 775 LF 

|          |
|----------|
| 630-2-12 |
|----------|

  
775 LF 

|           |
|-----------|
| 633-1-123 |
|-----------|

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
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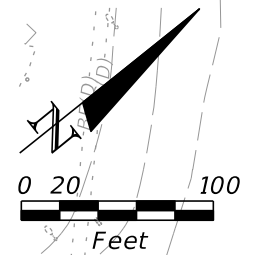
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P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

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|--|--------|----------------------|
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 3**

SHEET NO.  
**IT-13**

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PROPOSED FDOT SV-400-68.3  
STA. 575+40

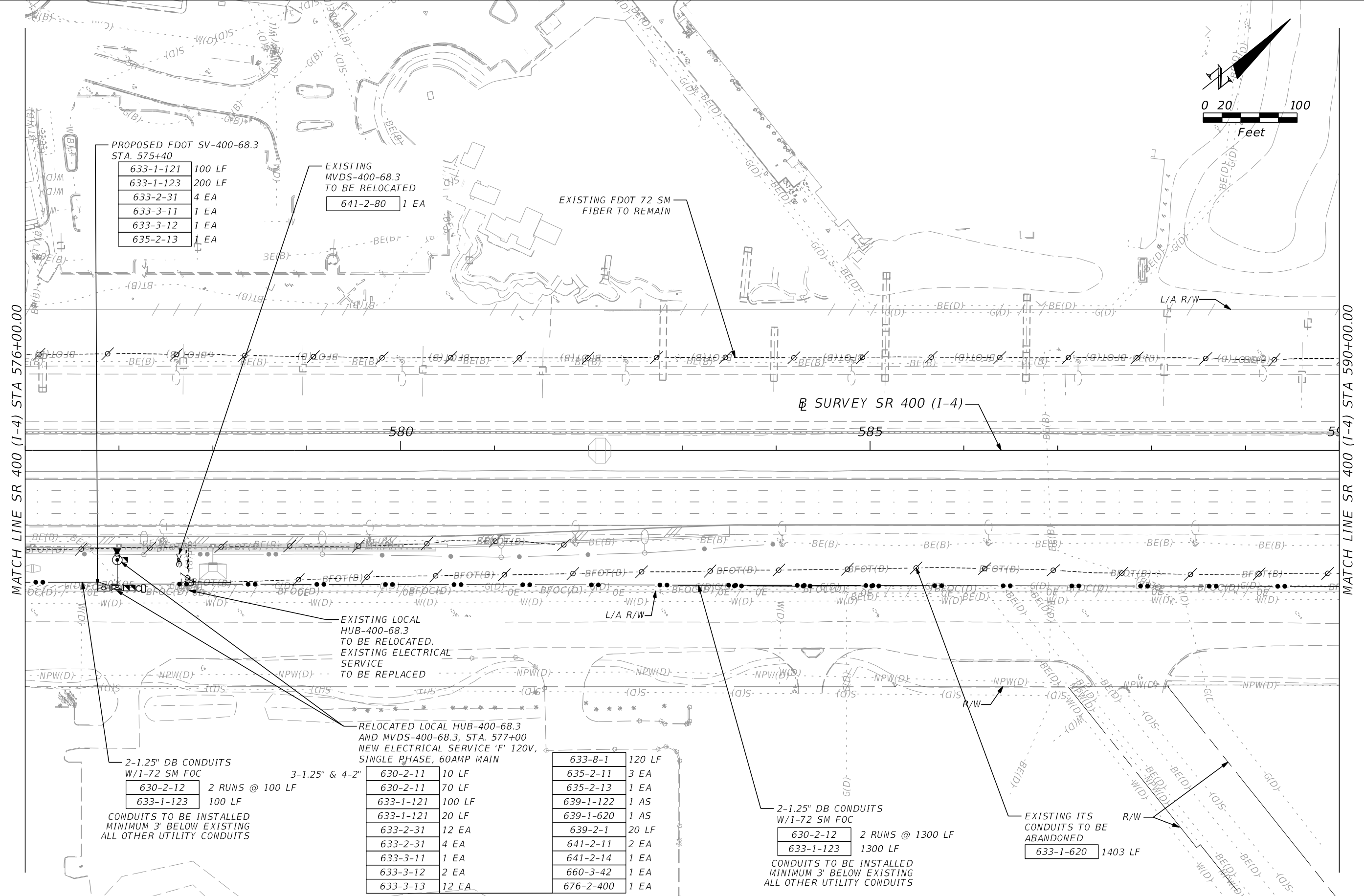
|           |        |
|-----------|--------|
| 633-1-121 | 100 LF |
| 633-1-123 | 200 LF |
| 633-2-31  | 4 EA   |
| 633-3-11  | 1 EA   |
| 633-3-12  | 1 EA   |
| 635-2-13  | 1 EA   |

EXISTING  
MVDS-400-68.3  
TO BE RELOCATED  
641-2-80 1 EA

EXISTING FDOT 72 SM  
FIBER TO REMAIN

MATCH LINE SR 400 (I-4) STA 576+00.00

MATCH LINE SR 400 (I-4) STA 590+00.00



2-1.25" DB CONDUITS  
W/1-72 SM FOC

|           |                 |
|-----------|-----------------|
| 630-2-12  | 2 RUNS @ 100 LF |
| 633-1-123 | 100 LF          |

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

3-1.25" & 4-2"

|           |        |
|-----------|--------|
| 630-2-11  | 10 LF  |
| 630-2-11  | 70 LF  |
| 633-1-121 | 100 LF |
| 633-1-121 | 20 LF  |
| 633-2-31  | 12 EA  |
| 633-2-31  | 4 EA   |
| 633-3-11  | 1 EA   |
| 633-3-12  | 2 EA   |
| 633-3-13  | 12 EA  |

RELOCATED LOCAL HUB-400-68.3  
AND MVDS-400-68.3, STA. 577+00  
NEW ELECTRICAL SERVICE 'F' 120V,  
SINGLE PHASE, 60AMP MAIN

|           |        |
|-----------|--------|
| 633-8-1   | 120 LF |
| 635-2-11  | 3 EA   |
| 635-2-13  | 1 EA   |
| 639-1-122 | 1 AS   |
| 639-1-620 | 1 AS   |
| 639-2-1   | 20 LF  |
| 641-2-11  | 2 EA   |
| 641-2-14  | 1 EA   |
| 660-3-42  | 1 EA   |
| 676-2-400 | 1 EA   |

2-1.25" DB CONDUITS  
W/1-72 SM FOC

|           |                  |
|-----------|------------------|
| 630-2-12  | 2 RUNS @ 1300 LF |
| 633-1-123 | 1300 LF          |

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|           |         |
|-----------|---------|
| 633-1-620 | 1403 LF |
|-----------|---------|

| REVISIONS |             |      |             |
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| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

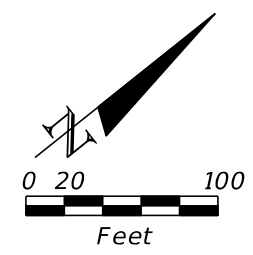
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AECOM TECHNICAL SERVICES, INC.  
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|--|--------|----------------------|
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 4**

SHEET NO.  
**IT-14**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 590+00.00

MATCH LINE SR 400 (I-4) STA 604+00.00

FDOT FOC PB  
W/ 50 LF 72 SM SLACK

|           |       |
|-----------|-------|
| 633-1-123 | 50 LF |
| 635-2-12  | 1 EA  |

4-1.25" CONDUITS  
W/1-72 SM FOC

|           |        |
|-----------|--------|
| 630-2-11  | 125 LF |
| 633-1-123 | 125 LF |

|        |           |
|--------|-----------|
| 100 LF | 633-1-123 |
| 72 EA  | 633-2-31  |
| 1 EA   | 633-3-11  |
| 6 EA   | 633-3-12  |

EXIST FDOT SV-400-68.8-WB  
STA. 602+82  
RESPLICE EXISTING BUTT  
SPLICE TO PROPOSED 72 SM  
TO THE EAST

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|        |           |
|--------|-----------|
| 125 LF | 633-1-620 |
|--------|-----------|

EXISTING FDOT 72 SM  
FIBER TO REMAIN

L/A R/W

SURVEY SR 400 (I-4)

595

600

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|         |           |
|---------|-----------|
| 1405 LF | 633-1-620 |
|---------|-----------|

2-1.25" DB CONDUITS  
W/1-72 SM FOC

|           |                |
|-----------|----------------|
| 630-2-12  | 2 RUNS @ 50 LF |
| 633-1-123 | 50 LF          |

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

2-1.25" DB CONDUITS  
W/1-72 SM FOC

|           |                  |
|-----------|------------------|
| 630-2-12  | 2 RUNS @ 1310 LF |
| 633-1-123 | 1310 LF          |

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

EXIST FDOT SV-400-68.8-EB  
STA. 603+60  
RESPLICE EXISTING DROP CABLE

|        |           |
|--------|-----------|
| 200 LF | 633-1-123 |
| 4 EA   | 633-2-31  |
| 1 EA   | 633-3-51  |
| 3 EA   | 633-3-52  |

EXISTING  
CCTV-400-68.8,  
MVDS-400-68.8 AND  
LOCAL HUB -400-68.8  
TO REMAIN

2-1.25" DB CONDUITS  
W/1-72 SM FOC

|           |                |
|-----------|----------------|
| 630-2-12  | 2 RUNS @ 40 LF |
| 633-1-123 | 40 LF          |

CONDUITS TO BE INSTALLED  
MINIMUM 3' BELOW EXISTING  
ALL OTHER UTILITY CONDUITS

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
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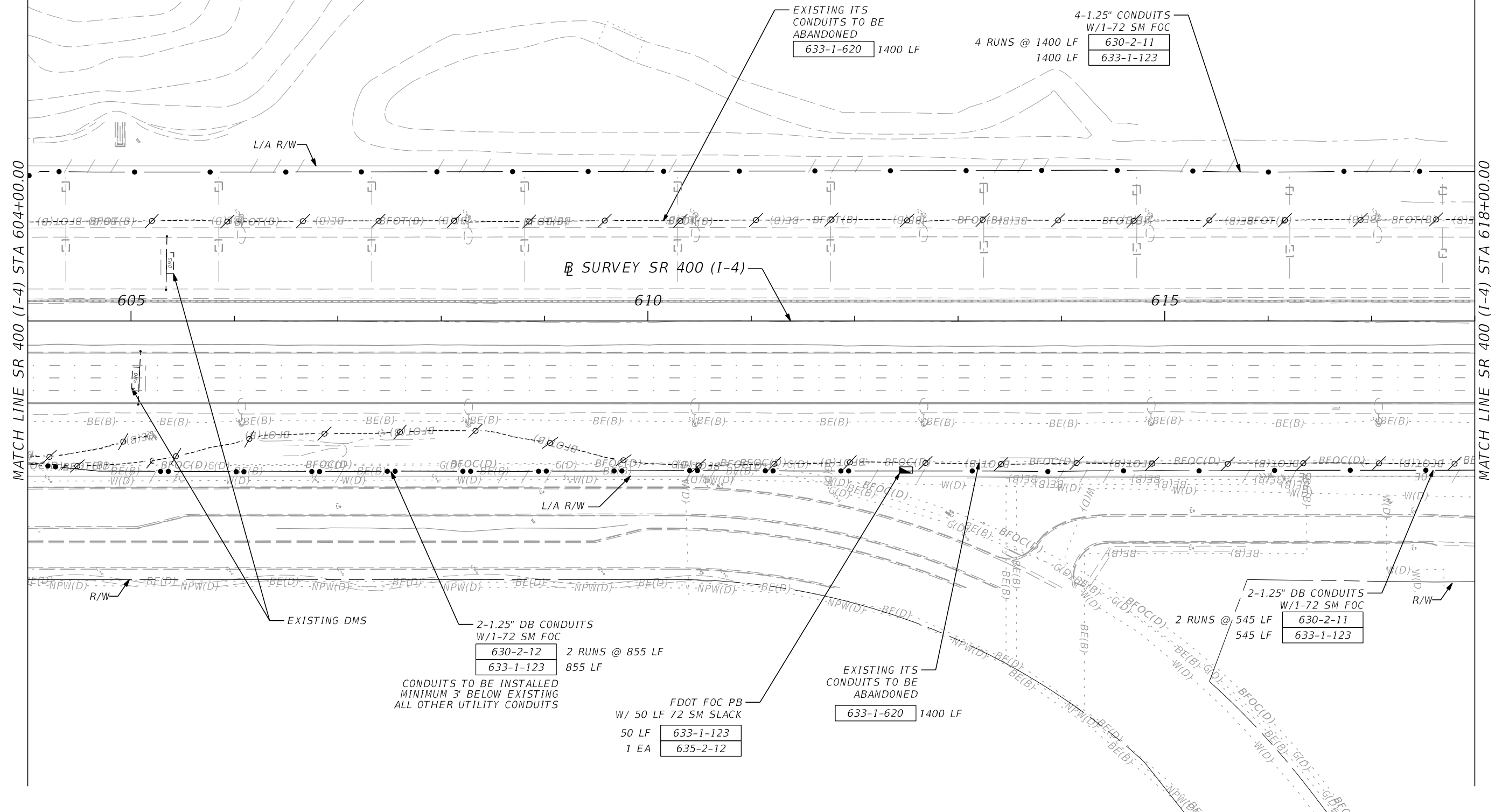
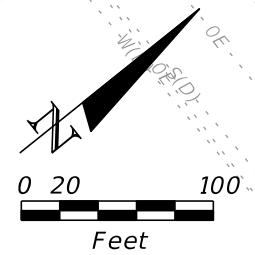
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P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
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SR 400 (I-4) - PLAN 5

SHEET  
NO.  
IT-15

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| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

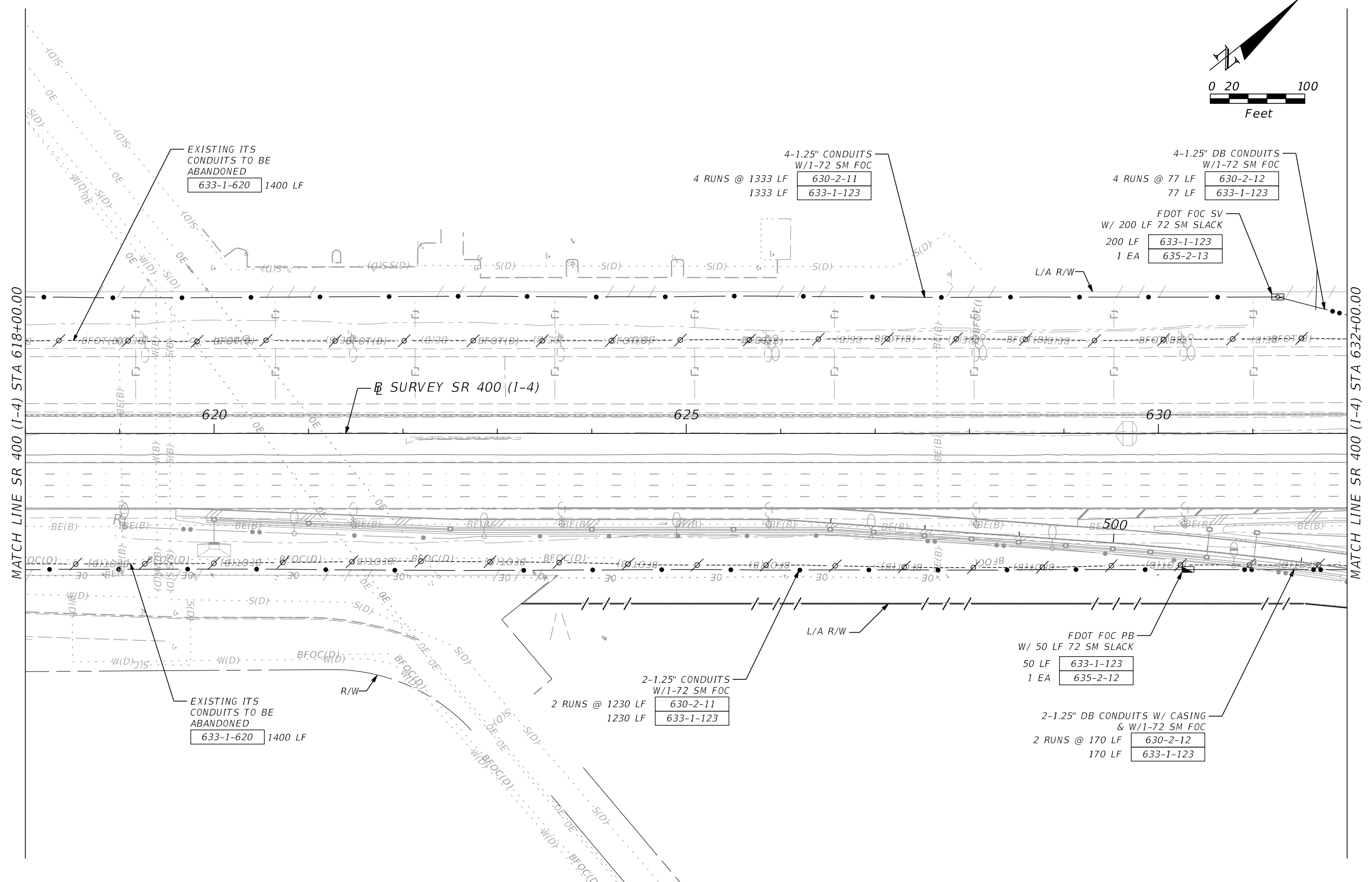
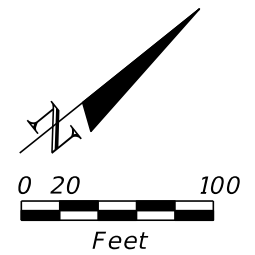
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 150 NORTH ORANGE AVENUE,  
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**SR 400 (I-4) - PLAN 6**

SHEET NO.  
IT-16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

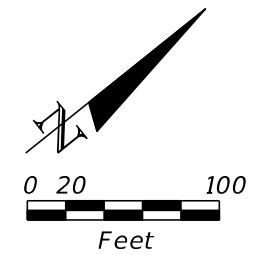
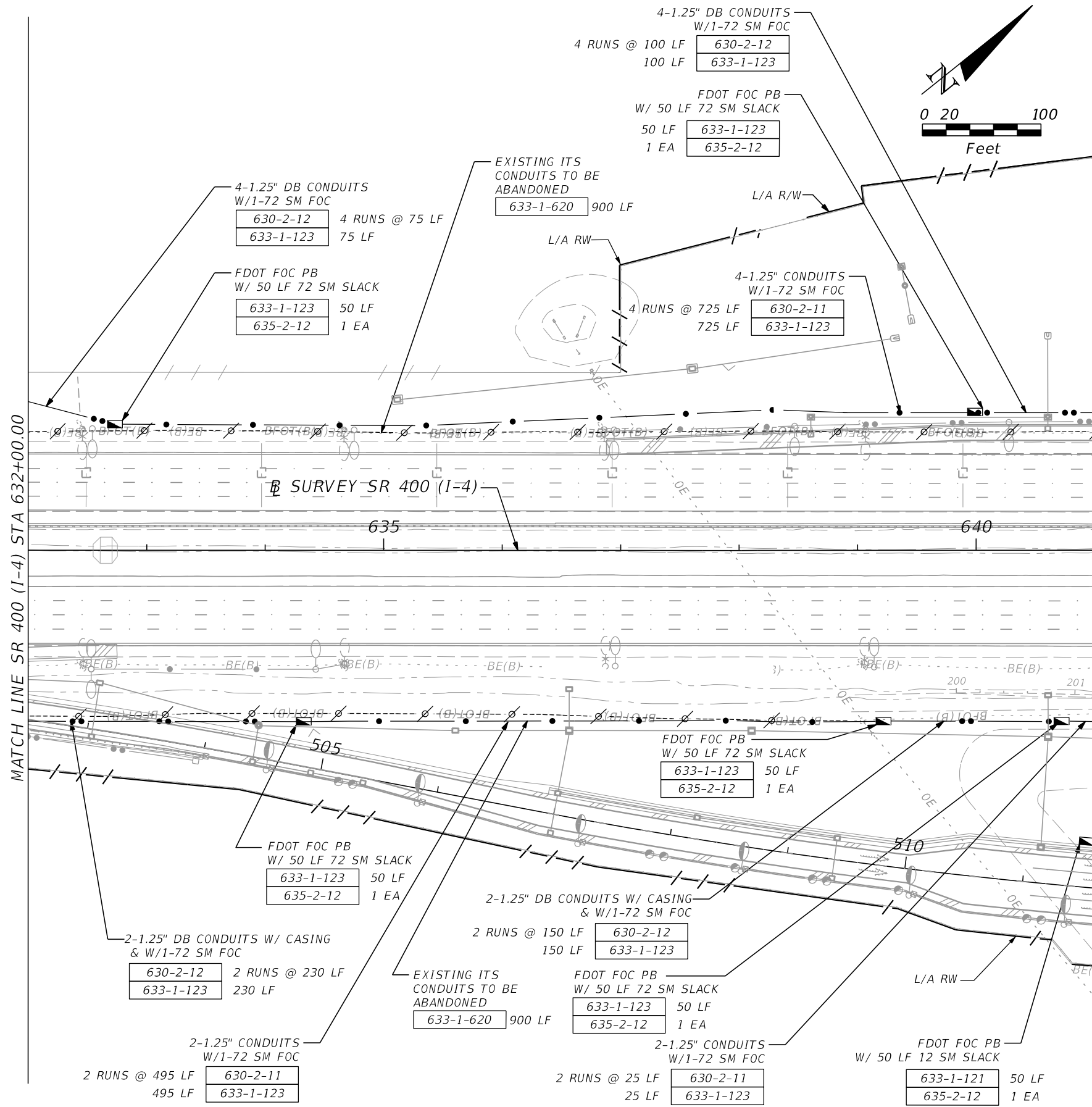
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150 NORTH ORANGE AVENUE,  
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 7**

SHEET NO.  
**IT-17**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 632+00.00

MATCH LINE SR 400 (I-4) STA 641+00.00  
SEE DARYL CARTER PKWY - PLAN 1

MATCH LINE B RAMP JB\_DCP  
STA 511+61.14  
SEE DARYL CARTER PKWY - PLAN 2

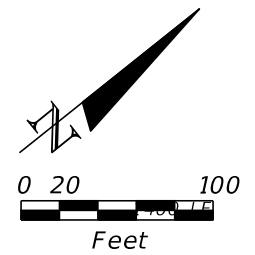
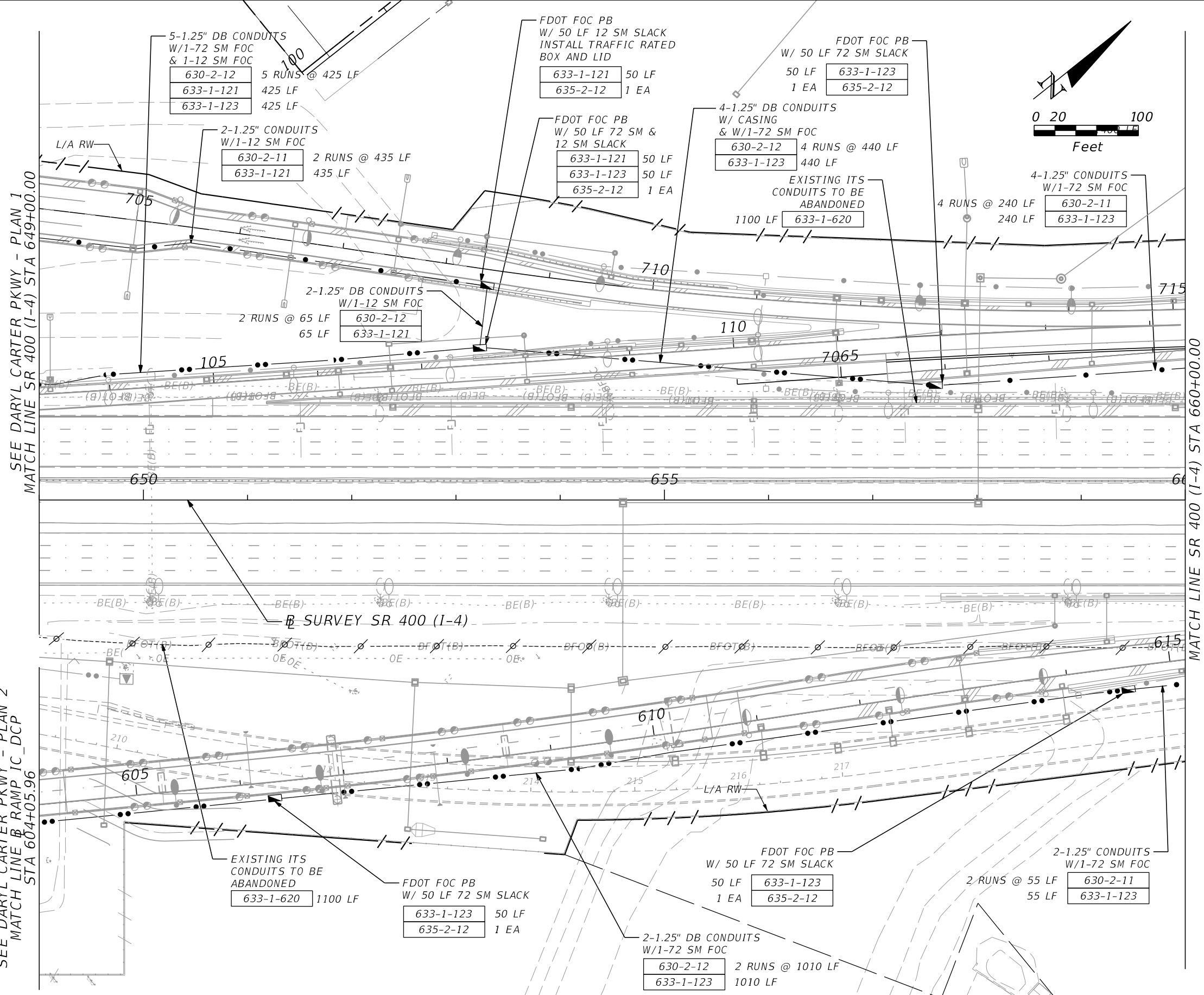
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| DATE      | DESCRIPTION | DATE | DESCRIPTION |
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 8**

SHEET NO.  
**IT-18**



SEE DARYL CARTER PKWY - PLAN 1  
MATCH LINE SR 400 (I-4) STA 649+00.00

MATCH LINE SR 400 (I-4) STA 660+00.00

SEE DARYL CARTER PKWY - PLAN 2  
MATCH LINE B RAMP IC\_DCP  
STA 604+05.96

| REVISIONS |             |      |             |
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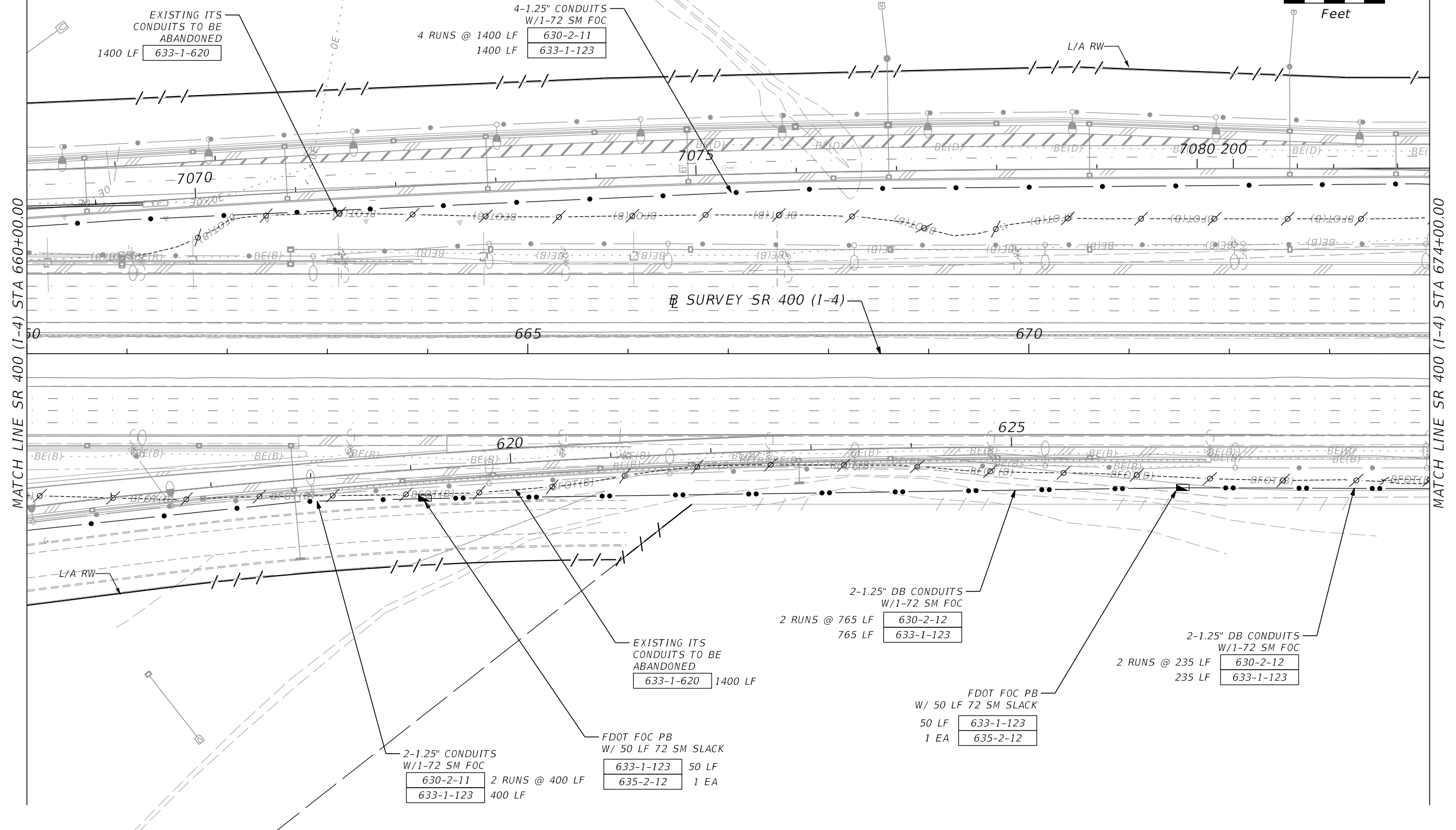
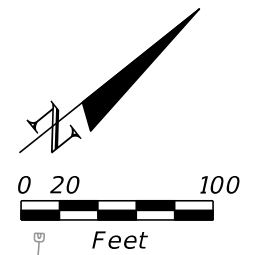
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150 NORTH ORANGE AVENUE,  
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 9**

SHEET NO.  
**IT-19**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 660+00.00

MATCH LINE SR 400 (I-4) STA 674+00.00

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 10**

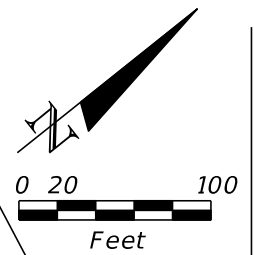
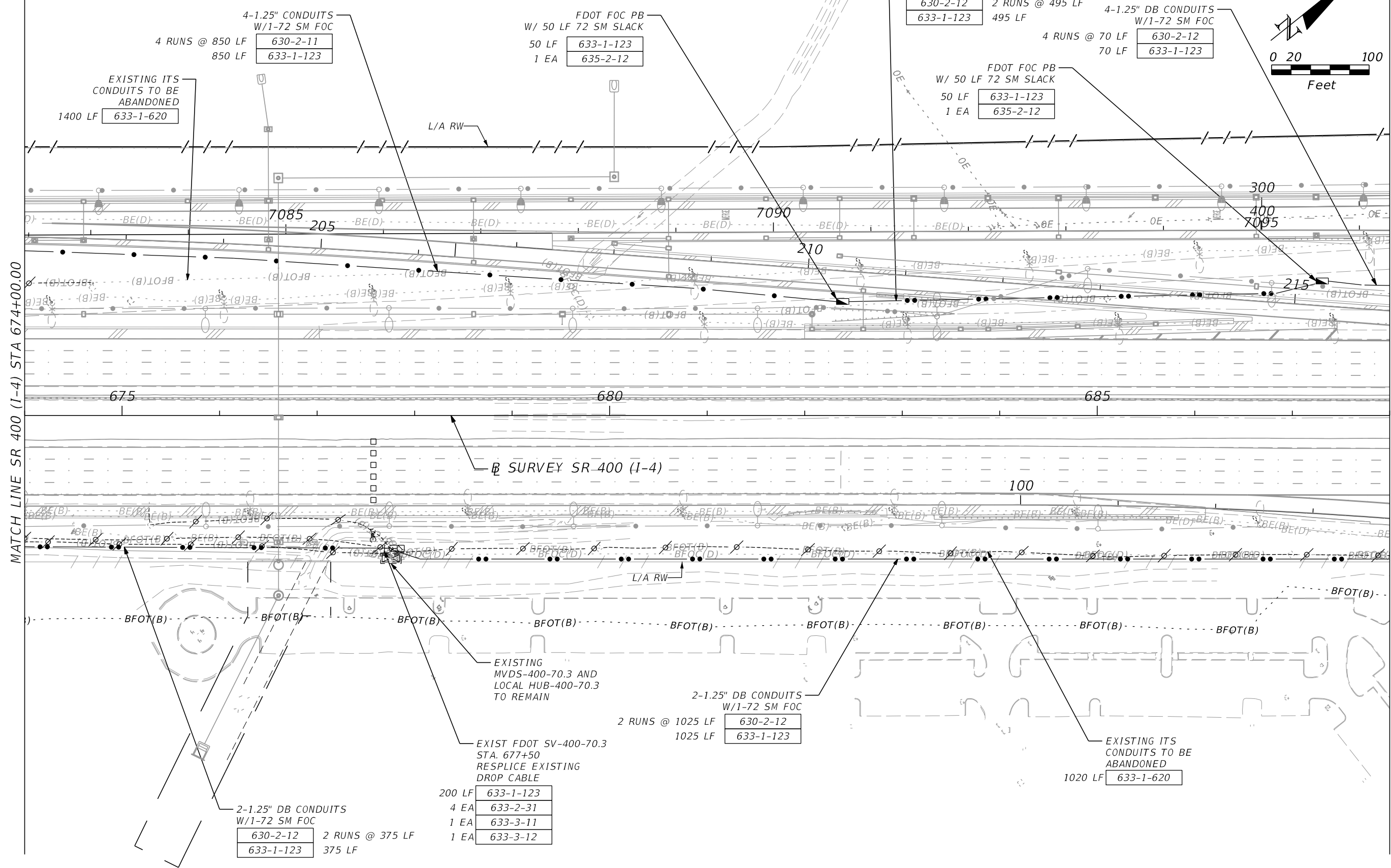
SHEET NO.  
IT-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 674+00.00

MATCH LINE SR 400 (I-4) STA 688+00.00



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

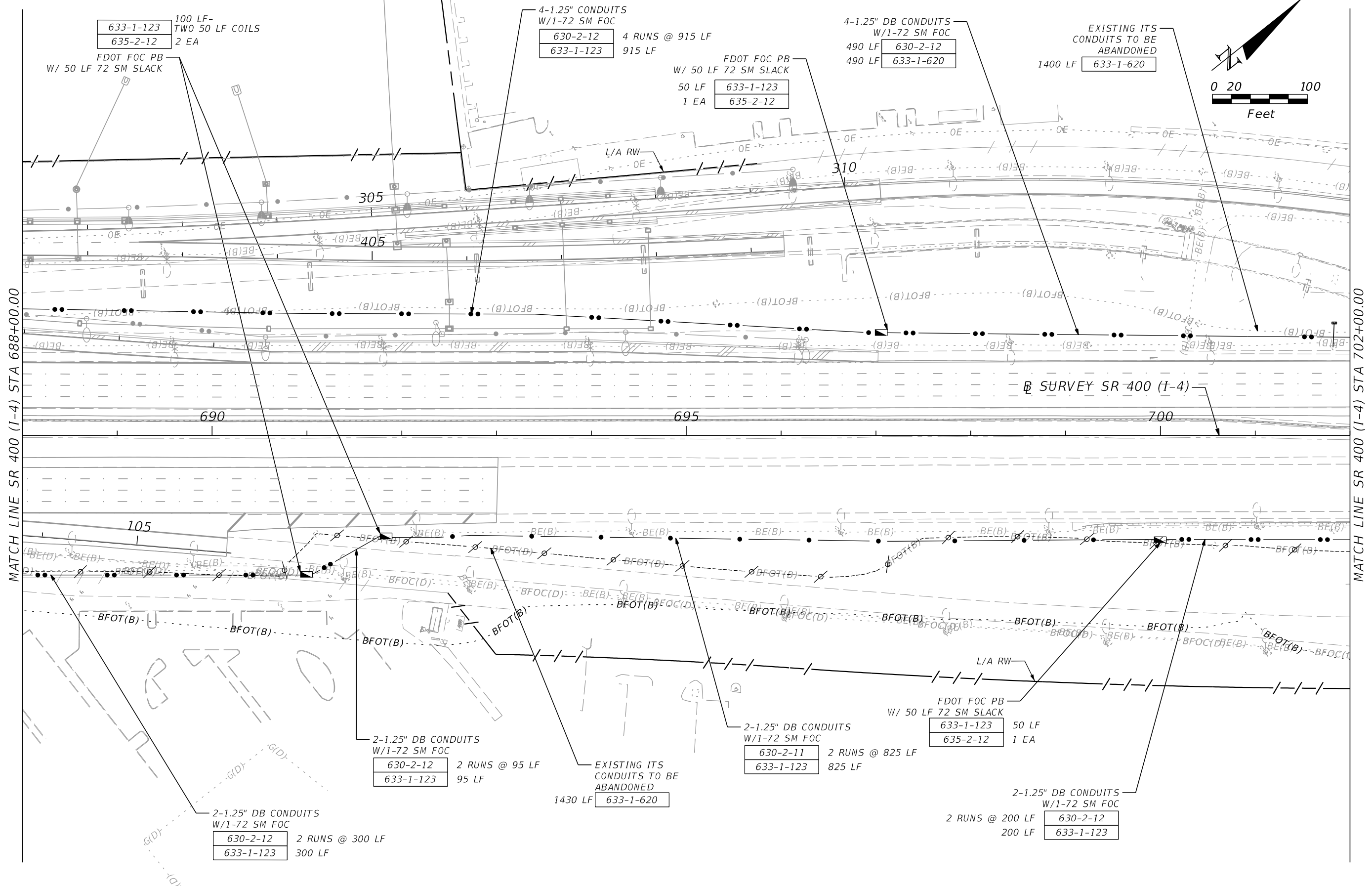
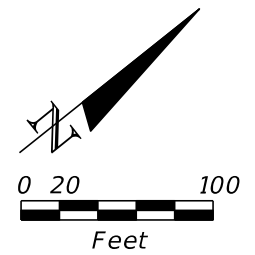
**SR 400 (I-4) - PLAN 11**

SHEET NO.  
IT-21

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCH LINE SR 400 (I-4) STA 688+00.00

MATCH LINE SR 400 (I-4) STA 702+00.00



| REVISIONS |             |      |             |
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| DATE      | DESCRIPTION | DATE | DESCRIPTION |
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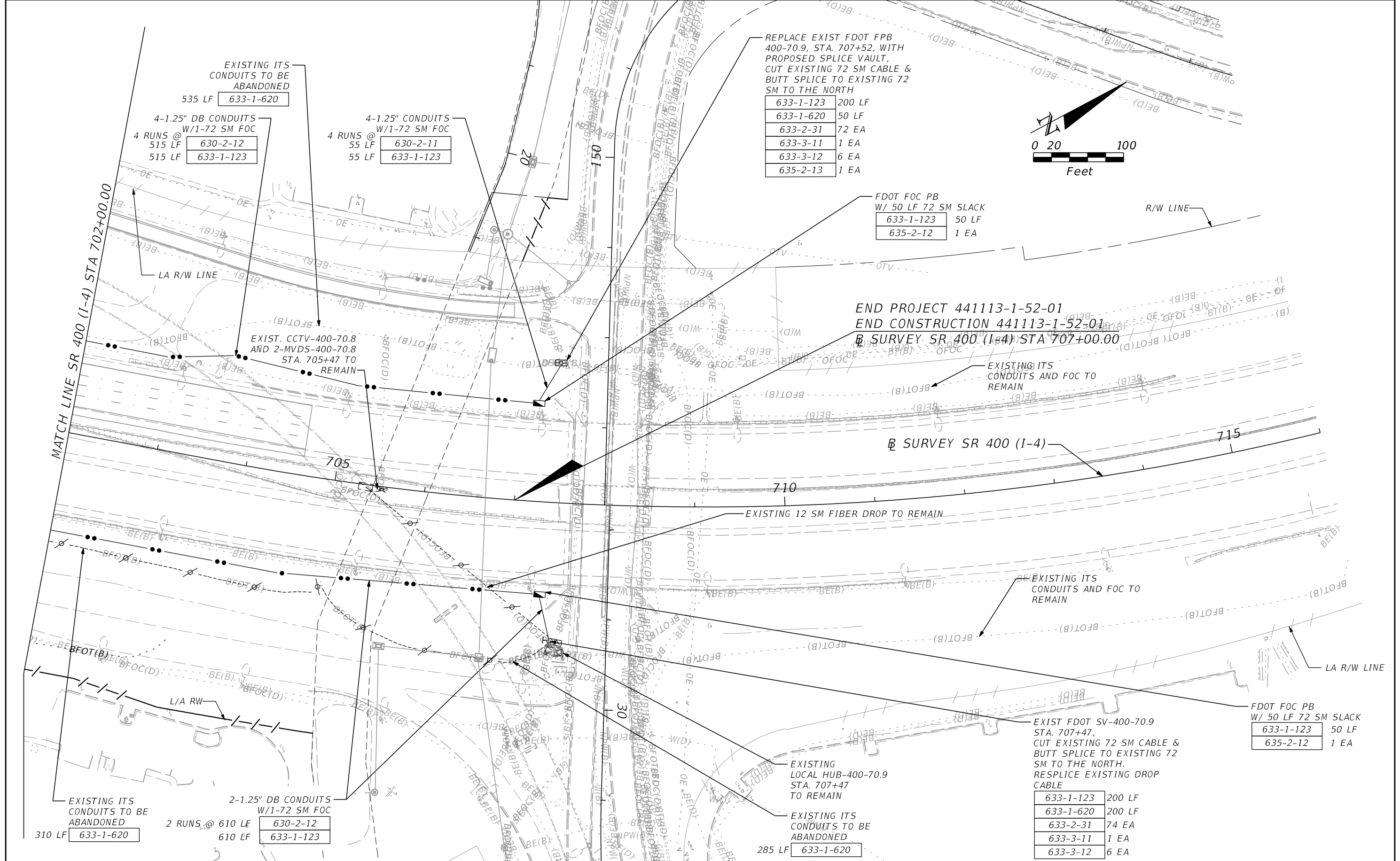
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150 NORTH ORANGE AVENUE,  
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 12**

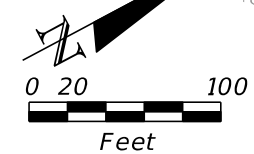
SHEET NO.  
IT-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REPLACE EXIST FDOT FPB  
400-70.9, STA. 707+52, WITH  
PROPOSED SPLICE VAULT,  
CUT EXISTING 72 SM CABLE &  
BUTT SPLICE TO EXISTING 72  
SM TO THE NORTH

|           |        |
|-----------|--------|
| 633-1-123 | 200 LF |
| 633-1-620 | 50 LF  |
| 633-2-31  | 72 EA  |
| 633-3-11  | 1 EA   |
| 633-3-12  | 6 EA   |
| 635-2-13  | 1 EA   |



FDOT FOC PB  
W/ 50 LF 72 SM SLACK

|           |       |
|-----------|-------|
| 633-1-123 | 50 LF |
| 635-2-12  | 1 EA  |

END PROJECT 441113-1-52-01  
END CONSTRUCTION 441113-1-52-01  
SURVEY SR 400 (I-4) STA 707+00.00

EXISTING ITS  
CONDUITS AND FOC TO  
REMAIN

SURVEY SR 400 (I-4)

EXISTING 12 SM FIBER DROP TO REMAIN

EXISTING ITS  
CONDUITS AND FOC TO  
REMAIN

FDOT FOC PB  
W/ 50 LF 72 SM SLACK

|           |       |
|-----------|-------|
| 633-1-123 | 50 LF |
| 635-2-12  | 1 EA  |

EXIST FDOT SV-400-70.9  
STA. 707+47,  
CUT EXISTING 72 SM CABLE &  
BUTT SPLICE TO EXISTING 72  
SM TO THE NORTH.  
RESPLICE EXISTING DROP  
CABLE

|           |        |
|-----------|--------|
| 633-1-123 | 200 LF |
| 633-1-620 | 200 LF |
| 633-2-31  | 74 EA  |
| 633-3-11  | 1 EA   |
| 633-3-12  | 6 EA   |

EXISTING  
LOCAL HUB-400-70.9  
STA. 707+47  
TO REMAIN

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|        |           |
|--------|-----------|
| 285 LF | 633-1-620 |
|--------|-----------|

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|        |           |
|--------|-----------|
| 535 LF | 633-1-620 |
|--------|-----------|

4-1.25" DB CONDUITS  
W/1-72 SM FOC

|          |        |           |
|----------|--------|-----------|
| 4 RUNS @ | 515 LF | 630-2-12  |
|          | 515 LF | 633-1-123 |

4-1.25" CONDUITS  
W/1-72 SM FOC

|          |       |           |
|----------|-------|-----------|
| 4 RUNS @ | 55 LF | 630-2-11  |
|          | 55 LF | 633-1-123 |

EXIST. CCTV-400-70.8  
AND 2-MVDS-400-70.8  
STA. 705+47 TO  
REMAIN

EXISTING ITS  
CONDUITS TO BE  
ABANDONED

|        |           |
|--------|-----------|
| 310 LF | 633-1-620 |
|--------|-----------|

2-1.25" DB CONDUITS  
W/1-72 SM FOC

|          |        |           |
|----------|--------|-----------|
| 2 RUNS @ | 610 LF | 630-2-12  |
|          | 610 LF | 633-1-123 |

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

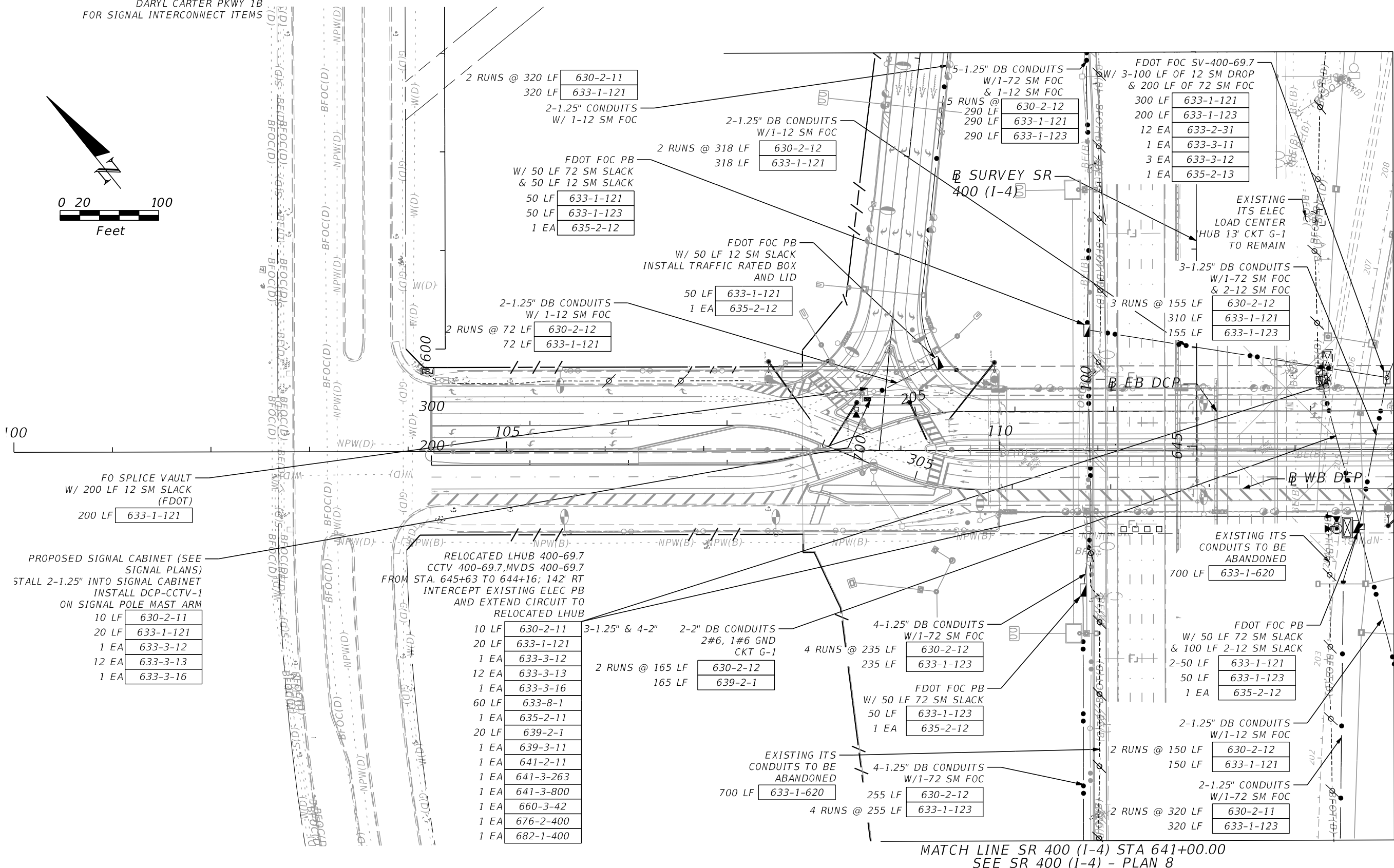
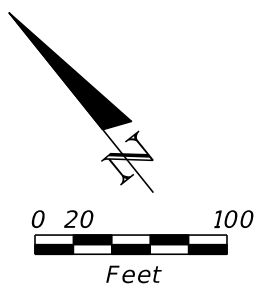
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| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 400 (I-4) - PLAN 13**

SHEET NO.  
**IT-23**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTE: REFER TO PLAN SHEET  
DARYL CARTER PKWY 1B  
FOR SIGNAL INTERCONNECT ITEMS



FO SPLICE VAULT  
W/ 200 LF 12 SM SLACK  
(FDOT)  
200 LF 633-1-121

PROPOSED SIGNAL CABINET (SEE  
SIGNAL PLANS)  
STALL 2-1.25" INTO SIGNAL CABINET  
INSTALL DCP-CCTV-1  
ON SIGNAL POLE MAST ARM

|       |           |
|-------|-----------|
| 10 LF | 630-2-11  |
| 20 LF | 633-1-121 |
| 1 EA  | 633-3-12  |
| 12 EA | 633-3-13  |
| 1 EA  | 633-3-16  |

RELOCATED LHUB 400-69.7  
CCTV 400-69.7, MVDS 400-69.7  
FROM STA. 645+63 TO 644+16; 142' RT  
INTERCEPT EXISTING ELEC PB  
AND EXTEND CIRCUIT TO  
RELOCATED LHUB

|       |           |
|-------|-----------|
| 10 LF | 630-2-11  |
| 20 LF | 633-1-121 |
| 1 EA  | 633-3-12  |
| 12 EA | 633-3-13  |
| 1 EA  | 633-3-16  |
| 60 LF | 633-8-1   |
| 1 EA  | 635-2-11  |
| 20 LF | 639-2-1   |
| 1 EA  | 639-3-11  |
| 1 EA  | 641-2-11  |
| 1 EA  | 641-3-263 |
| 1 EA  | 641-3-800 |
| 1 EA  | 660-3-42  |
| 1 EA  | 676-2-400 |
| 1 EA  | 682-1-400 |

3-1.25" & 4-2" 2-2" DB CONDUITS  
2#6, 1#6 GND  
CKT G-1

2 RUNS @ 165 LF 630-2-12  
165 LF 639-2-1

EXISTING ITS  
CONDUITS TO BE  
ABANDONED  
700 LF 633-1-620

MATCH LINE SR 400 (I-4) STA 641+00.00  
SEE SR 400 (I-4) - PLAN 8

MATCH LINE DARYL CARTER PKWY PLAN 2A STA 114+00.00

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

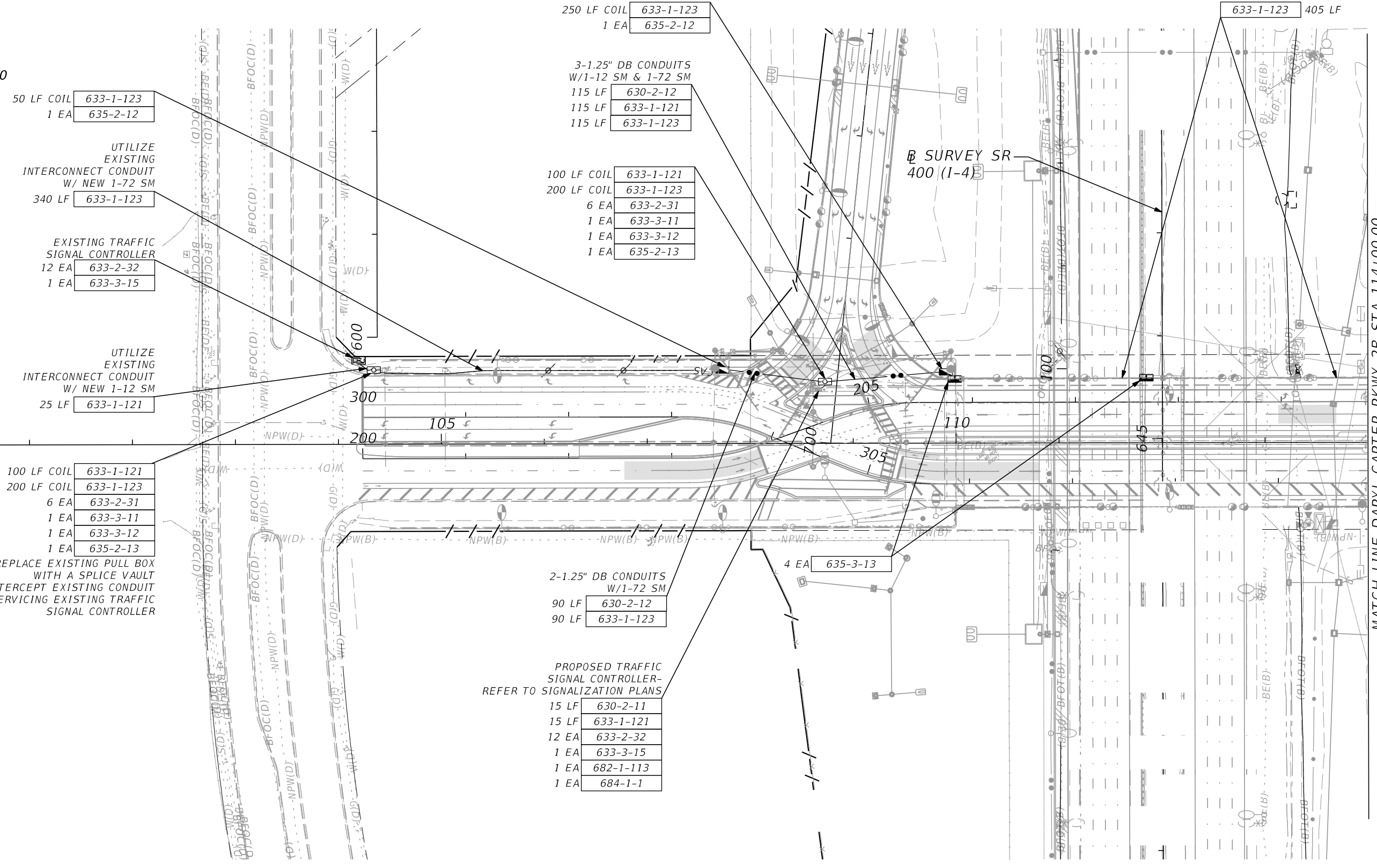
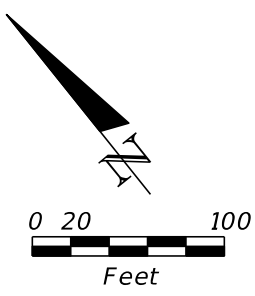
DARYL CARTER PKWY - PLAN 1A

SHEET  
NO.  
IT-24

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTE: REFER TO PLAN SHEET  
DARYL CARTER PKWY 1A  
FOR FDOT ITS ITEMS

REFER TO STRUCTURE PLANS FOR  
EMBEDDED BARRIER WALL  
CONDUITS PAYMENT



50 LF COIL 633-1-123  
1 EA 635-2-12

UTILIZE EXISTING INTERCONNECT CONDUIT W/ NEW 1-72 SM  
340 LF 633-1-123

EXISTING TRAFFIC SIGNAL CONTROLLER  
12 EA 633-2-32  
1 EA 633-3-15

UTILIZE EXISTING INTERCONNECT CONDUIT W/ NEW 1-12 SM  
25 LF 633-1-121

100 LF COIL 633-1-121  
200 LF COIL 633-1-123  
6 EA 633-2-31  
1 EA 633-3-11  
1 EA 633-3-12  
1 EA 635-2-13

REPLACE EXISTING PULL BOX WITH A SPLICE VAULT INTERCEPT EXISTING CONDUIT SERVICING EXISTING TRAFFIC SIGNAL CONTROLLER

250 LF COIL 633-1-123  
1 EA 635-2-12

3-1.25" DB CONDUITS W/1-12 SM & 1-72 SM  
115 LF 630-2-12  
115 LF 633-1-121  
115 LF 633-1-123

100 LF COIL 633-1-121  
200 LF COIL 633-1-123  
6 EA 633-2-31  
1 EA 633-3-11  
1 EA 633-3-12  
1 EA 635-2-13

633-1-123 405 LF

2-1.25" DB CONDUITS W/1-72 SM  
90 LF 630-2-12  
90 LF 633-1-123

PROPOSED TRAFFIC SIGNAL CONTROLLER-REFER TO SIGNALIZATION PLANS  
15 LF 630-2-11  
15 LF 633-1-121  
12 EA 633-2-32  
1 EA 633-3-15  
1 EA 682-1-113  
1 EA 684-1-1

SR SURVEY SR  
400 (1-4)

MATCH LINE DARYL CARTER PKWY 2B STA 114+00.00

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

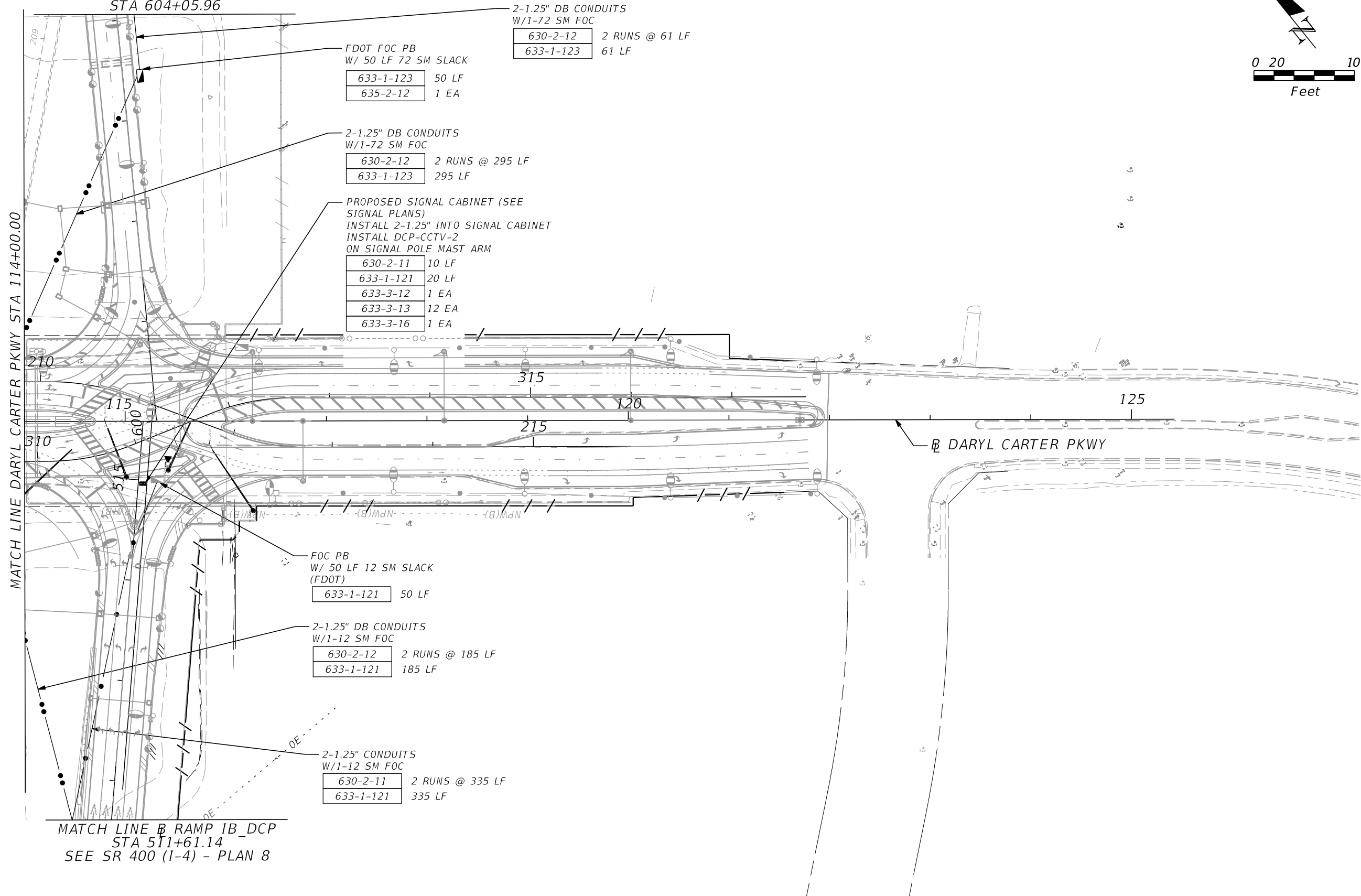
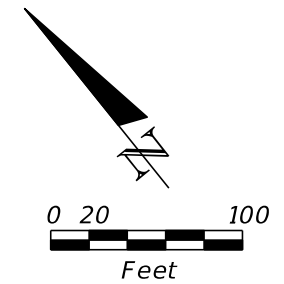
DARYL CARTER PKWY - PLAN 1B

SHEET NO.  
IT-25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SEE SR 400 (I-4) - PLAN 9  
MATCH LINE B RAMP IC\_DCP  
STA 604+05.96

NOTE: REFER TO PLAN SHEET  
DARYL CARTER PKWY 2B  
FOR SIGNAL INTERCONNECT ITEMS



2-1.25" DB CONDUITS  
W/1-72 SM FOC  
630-2-12 2 RUNS @ 61 LF  
633-1-123 61 LF

FDOT FOC PB  
W/ 50 LF 72 SM SLACK  
633-1-123 50 LF  
635-2-12 1 EA

2-1.25" DB CONDUITS  
W/1-72 SM FOC  
630-2-12 2 RUNS @ 295 LF  
633-1-123 295 LF

PROPOSED SIGNAL CABINET (SEE  
SIGNAL PLANS)  
INSTALL 2-1.25" INTO SIGNAL CABINET  
INSTALL DCP-CCTV-2  
ON SIGNAL POLE MAST ARM  
630-2-11 10 LF  
633-1-121 20 LF  
633-3-12 1 EA  
633-3-13 12 EA  
633-3-16 1 EA

FOC PB  
W/ 50 LF 12 SM SLACK  
(FDOT)  
633-1-121 50 LF

2-1.25" DB CONDUITS  
W/1-12 SM FOC  
630-2-12 2 RUNS @ 185 LF  
633-1-121 185 LF

2-1.25" CONDUITS  
W/1-12 SM FOC  
630-2-11 2 RUNS @ 335 LF  
633-1-121 335 LF

MATCH LINE B RAMP IB\_DCP  
STA 511+61.14  
SEE SR 400 (I-4) - PLAN 8

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

|  |        |                      |
|--|--------|----------------------|
| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

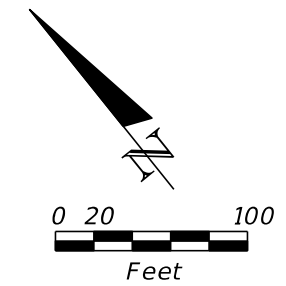
DARYL CARTER PKWY - PLAN 2A

SHEET NO.  
IT-26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REFER TO STRUCTURE PLANS FOR  
EMBEDDED BARRIER WALL  
CONDUITS PAYMENT

NOTE: REFER TO PLAN SHEET  
DARYL CARTER PKWY 2A  
FOR FDOT ITS ITEMS



MATCH LINE DARYL CARTER PKWY STA 114+00.00

633-1-123 10 LF

|           |             |
|-----------|-------------|
| 633-1-121 | 100 LF COIL |
| 633-1-123 | 250 LF COIL |
| 633-2-31  | 6 EA        |
| 633-3-11  | 1 EA        |
| 633-3-12  | 1 EA        |
| 635-2-13  | 1 EA        |

2-1.25" DB CONDUITS  
W/1-72 SM

|           |        |
|-----------|--------|
| 630-2-12  | 205 LF |
| 633-1-123 | 205 LF |

2-1.25" DB CONDUITS  
W/1-12 SM

|           |        |
|-----------|--------|
| 630-2-12  | 175 LF |
| 633-1-121 | 175 LF |

|           |            |
|-----------|------------|
| 633-1-123 | 50 LF COIL |
| 635-2-12  | 1 EA       |

1-1.25" CONDUITS  
W/1-72 SM

|           |        |
|-----------|--------|
| 630-2-11  | 540 LF |
| 633-1-123 | 540 LF |

310  
115  
600  
515

315  
120  
215

125

|           |            |
|-----------|------------|
| 633-1-121 | 50 LF COIL |
| 635-2-12  | 1 EA       |

PROPOSED TRAFFIC  
SIGNAL CONTROLLER-  
REFER TO SIGNALIZATION PLANS

|           |       |
|-----------|-------|
| 630-2-11  | 15 LF |
| 633-1-121 | 15 LF |
| 633-2-32  | 12 EA |
| 633-3-15  | 1 EA  |
| 682-1-113 | 1 EA  |
| 684-1-1   | 1 EA  |

UTILIZE EXISTING  
INTERCONNECT PULL BOX  
FOR FUTURE CONNCTION  
50 LF COIL 633-1-123

635-3-13 2 EA

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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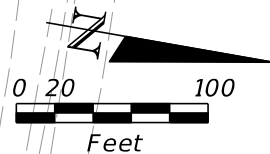
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| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**DARYL CARTER PKWY - PLAN 2B**

SHEET  
NO.  
IT-27

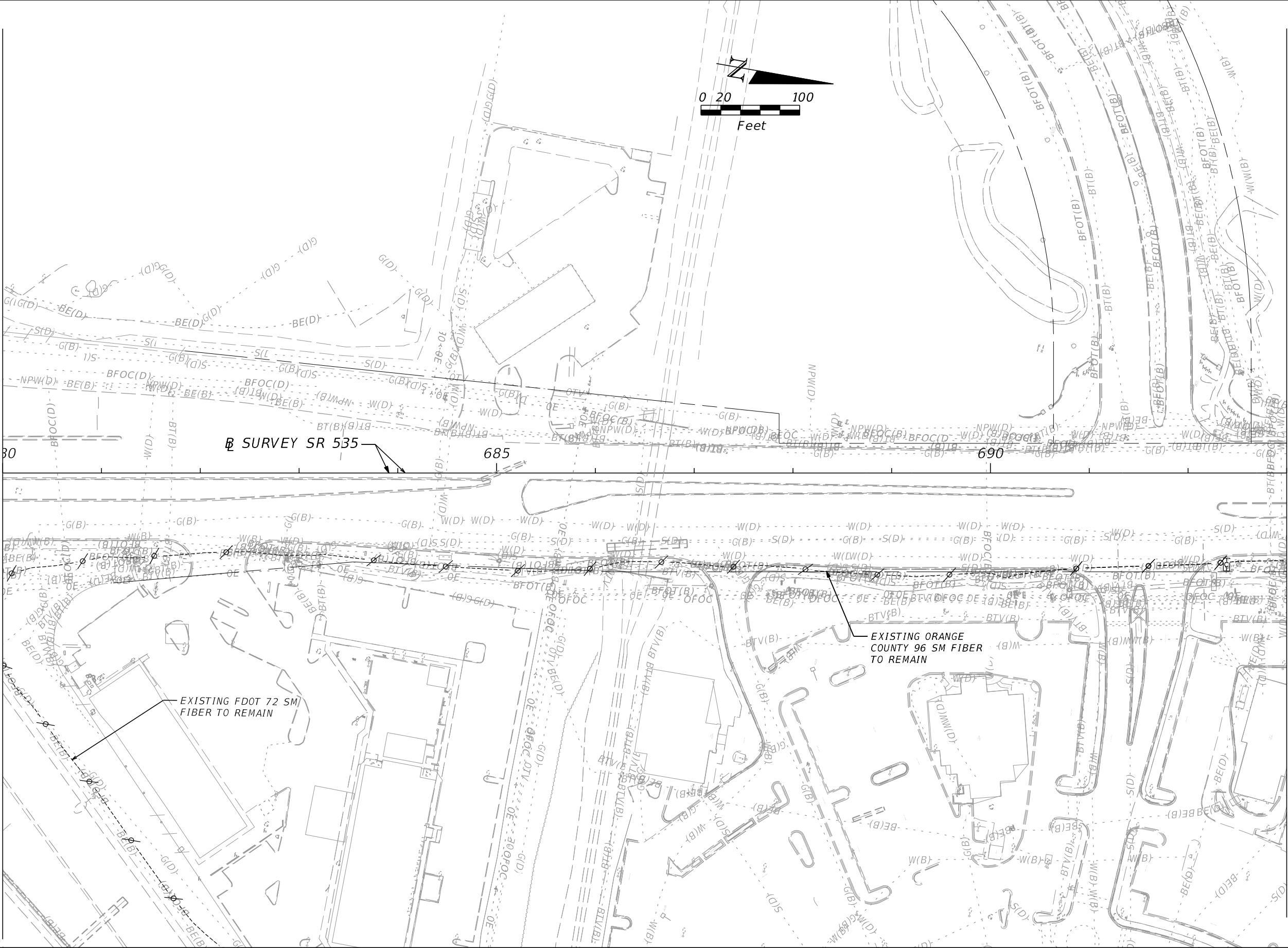
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





MATCH LINE SR 535 STA 680+00.00  
SEE SR 400 (I-4) - PLAN 2

MATCH LINE SR 535 STA 693+00.00



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
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150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

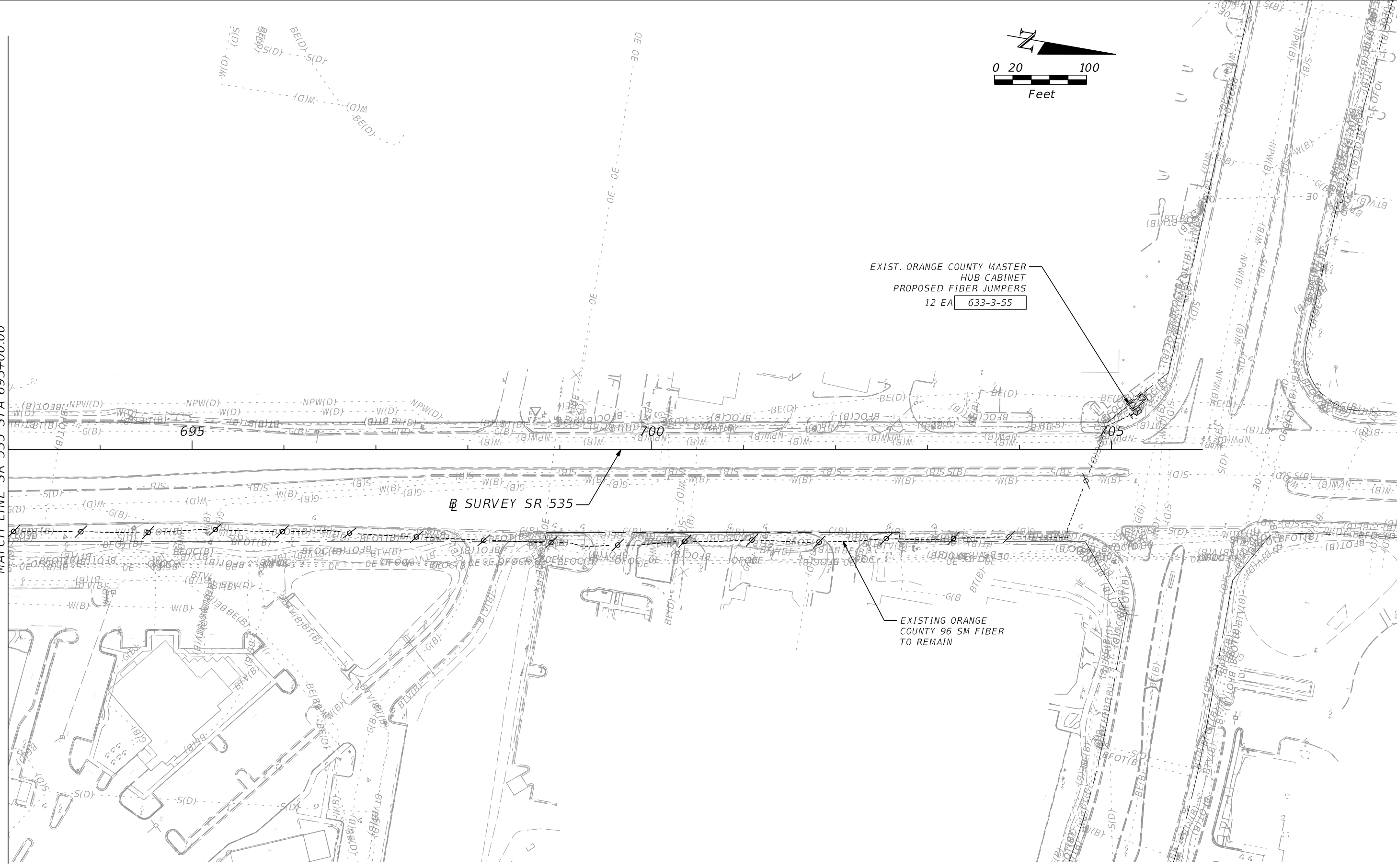
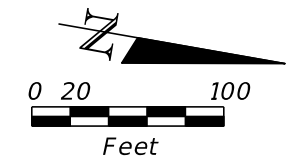
**SR 535 - PLAN 1**

SHEET NO.  
**IT-28**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 535 STA 693+00.00



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**SR 535 - PLAN 2**

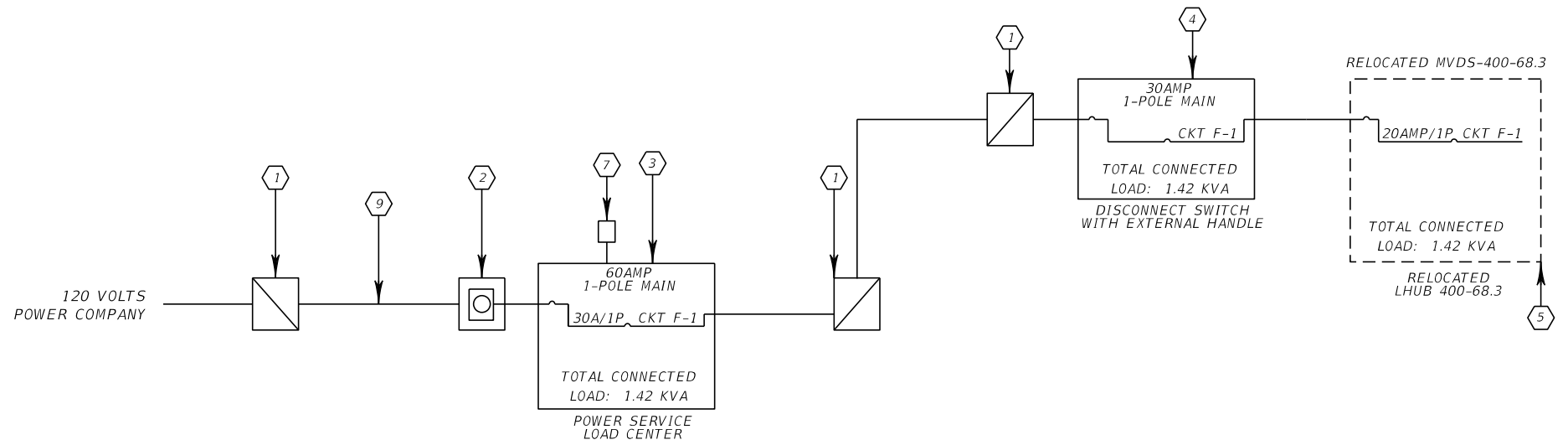
SHEET NO.  
IT-29

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# ONE LINE DIAGRAM

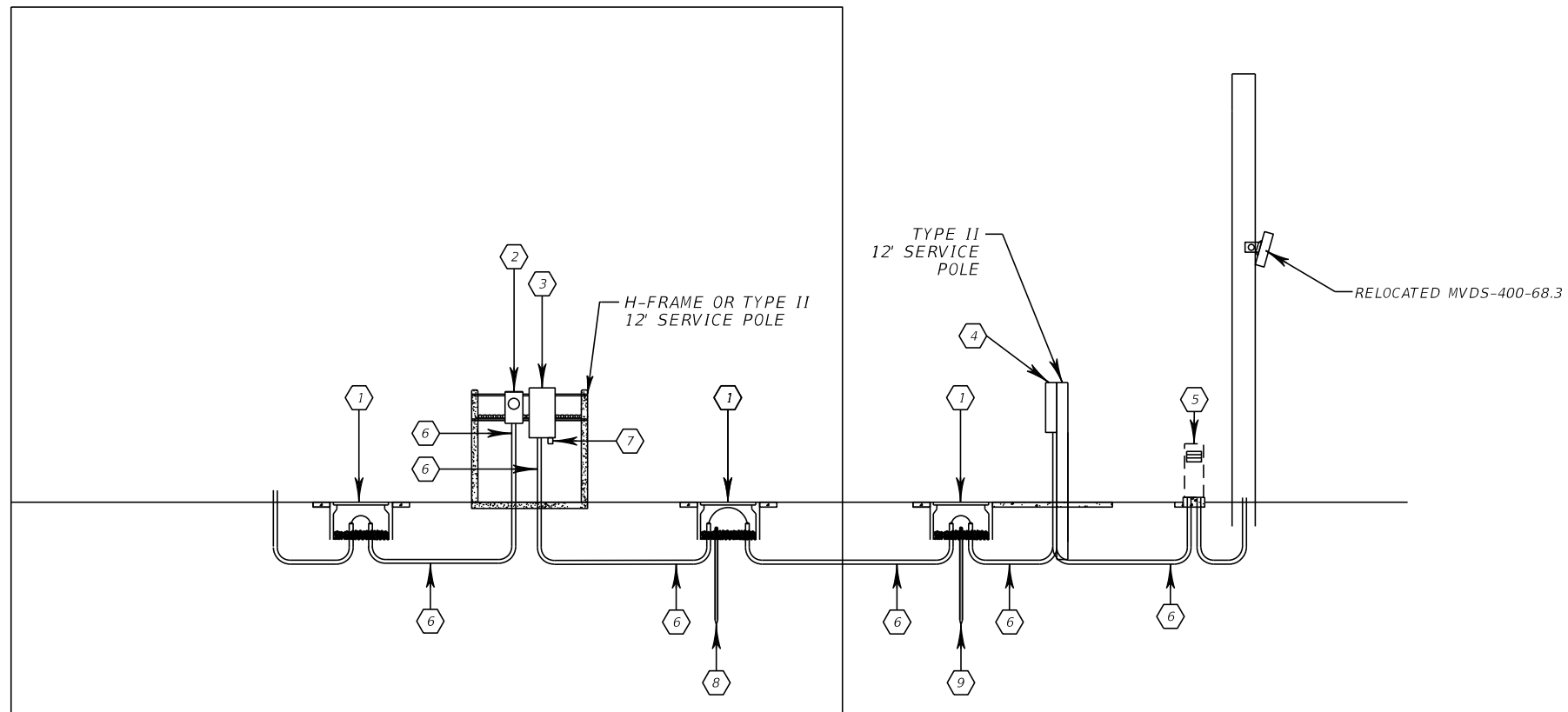
**KEYED NOTES:**

- 1 PULL BOX.
- 2 METER SOCKET BY CONTRACTOR, METER BY POWER COMPANY.
- 3 60 AMP 1-POLE, 120V MAIN CIRCUIT BREAKER PANEL.
- 4 30 AMP 1-POLE, 120V MAIN CIRCUIT BREAKER PANEL.
- 5 RELOCATED ITS CABINET
- 6 1-2" CONDUIT TYPE RGS FOR ABOVE GROUND AND 2-2" HDPE FOR UNDERGROUND.
- 7 SURGE PROTECTION DEVICE.
- 8 GROUND ROD.
- 9 2#2, 1#2 GND



**NOTES:**

1. ALL EMPTY POWER CONDUITS SHALL BE CAPPED AND FURNISHED WITH A PULL STRING FOR FUTURE USE.
2. CONTRACTOR SHALL GROUND THIS SITE AS SHOWN WITHIN THE GROUNDING DETAILS.
3. ELECTRICAL GROUNDING SHALL MEET A REQUIRED RESISTANCE OF 5 OHMS OR LESS.
4. CONDUCTOR SIZE AND QUANTITY VARIES. SEE PLAN SHEETS.
5. PULL BOXES LOCATION AND QUANTITY VARIES. SEE PLAN SHEETS.

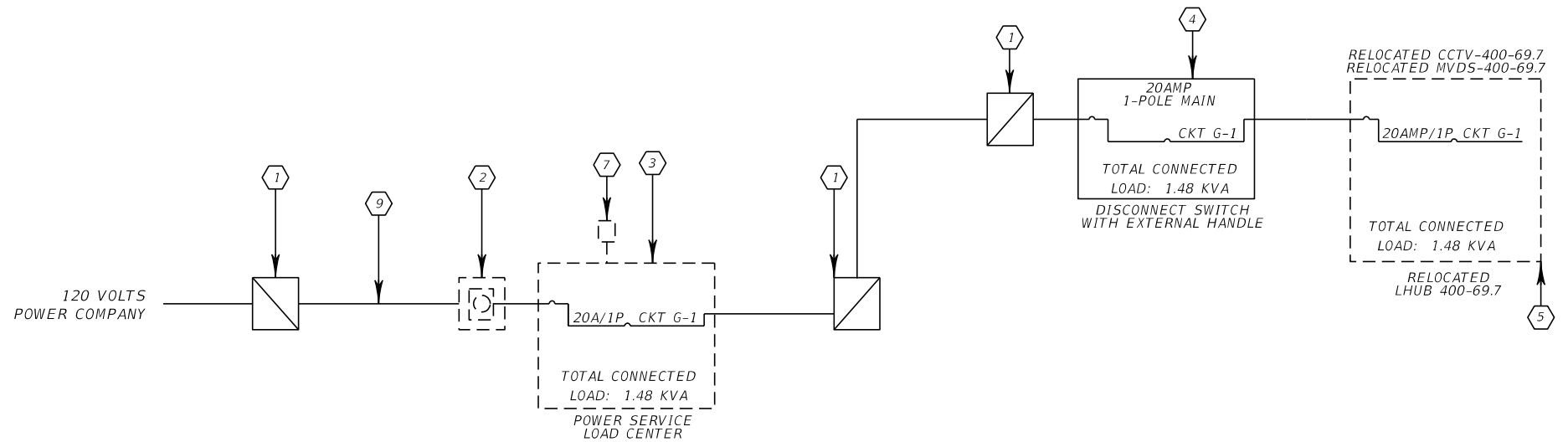


| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>POWER SERVICE DETAILS (1)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|----------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                  | IT-30     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                  |           |

# ONE LINE DIAGRAM

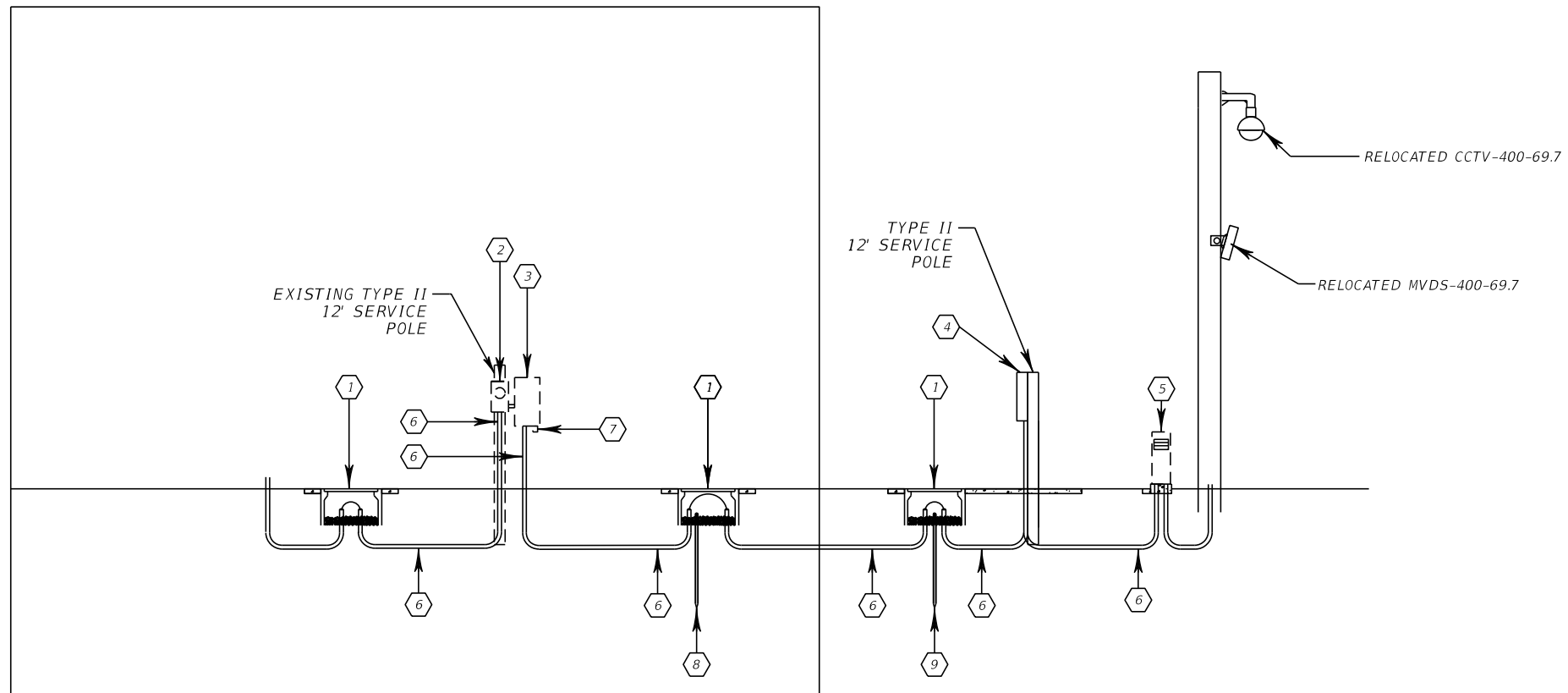
**KEYED NOTES:**

- 1 PULL BOX.
- 2 EXISTING METER.
- 3 EXISTING 20 AMP, 1-POLE, 120V, PANEL.
- 4 20 AMP, 1-POLE, 120V, EXTERNAL DISCONNECT SWITCH
- 5 RELOCATED ITS CABINET
- 6 1-2" CONDUIT TYPE RGS FOR ABOVE GROUND AND 2-2" HDPE FOR UNDERGROUND.
- 7 EXISTING SURGE PROTECTION DEVICE.
- 8 GROUND ROD.
- 8 2#2, 1#2 GND



**NOTES:**

1. ALL EMPTY POWER CONDUITS SHALL BE CAPPED AND FURNISHED WITH A PULL STRING FOR FUTURE USE.
2. CONTRACTOR SHALL GROUND THIS SITE AS SHOWN WITHIN THE GROUNDING DETAILS.
3. ELECTRICAL GROUNDING SHALL MEET A REQUIRED RESISTANCE OF 5 OHMS OR LESS.
4. CONDUCTOR SIZE AND QUANTITY VARIES. SEE PLAN SHEETS.
5. PULL BOXES LOCATION AND QUANTITY VARIES. SEE PLAN SHEETS.

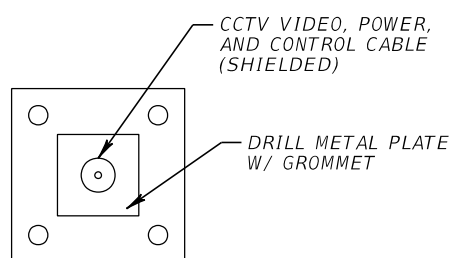
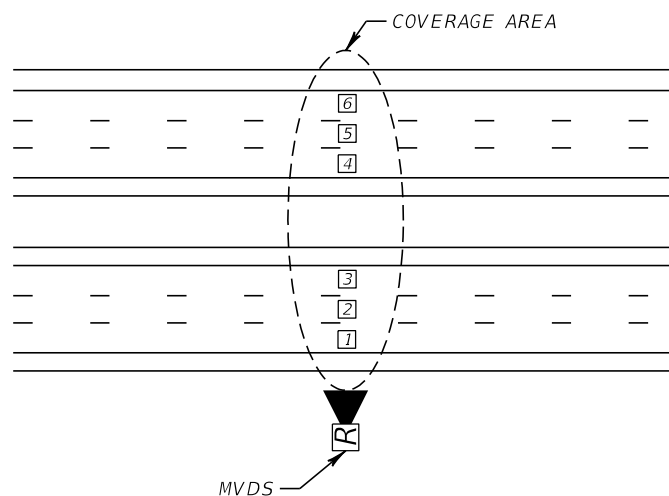


| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>POWER SERVICE DETAILS (2)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|----------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                  | IT-31     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                  |           |

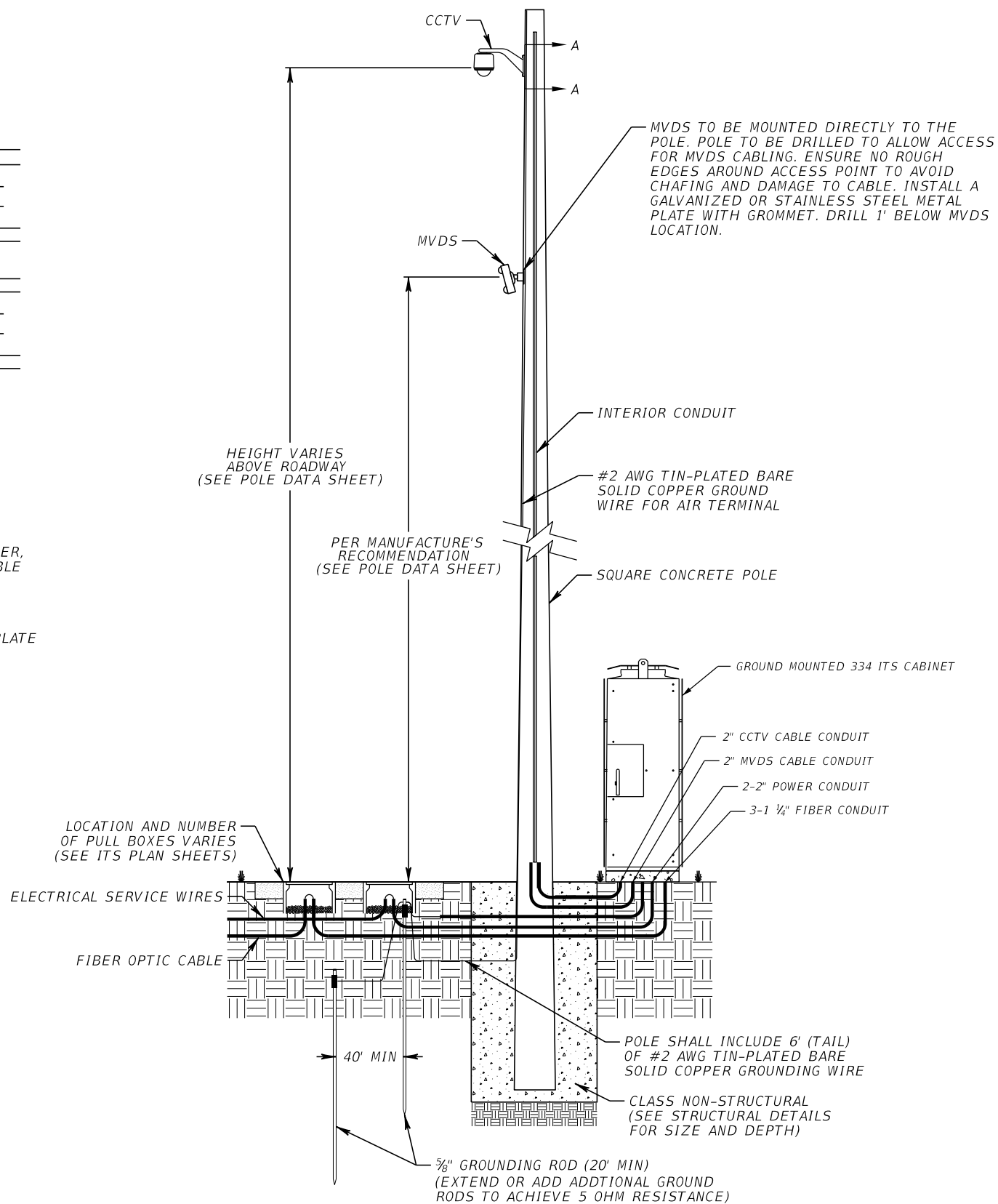
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# TYPICAL CCTV & MVDS INSTALLATION DETAILS

## TYPICAL DIVIDED HIGHWAY



**SECTION A-A**  
NTS

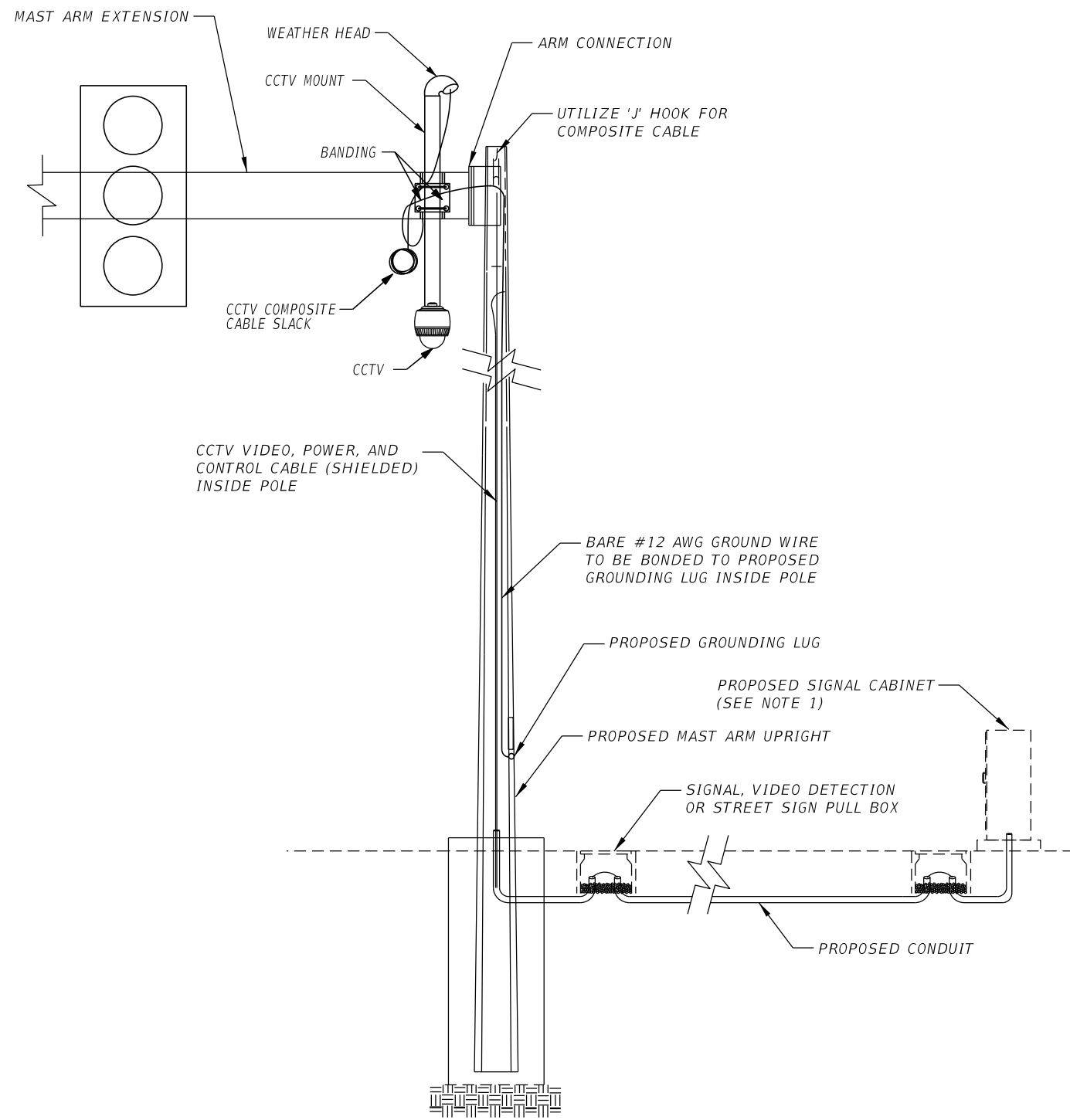


- NOTES:**
1. MOUNT CCTV CAMERA ON THE SIDE OF POLE NEAREST INTENDED FIELD OF VIEW AND AVOID OCCLUDING THE VIEW WITH THE POLE.
  2. GROUND MOUNTED CABINET TO BE ORIENTED PER THE ITS PLAN SHEETS.
  3. GROUNDING WIRE FROM CABINET SHALL BE PLACED IN ITS OWN CONDUIT AND ROUTED INTO THE NECESSARY PULL BOX.

- GROUNDING NOTES:**
1. GROUND WIRE LEADS SHALL BE BONDED TO EQUIPMENT CABINETS WITH A COPPER GROUND BAR. BOND SHALL BE LOCATED ON THE INSIDE OF THE CABINET WITH THE EARTH WIRE TERMINATED IN A CABLE LUG, BOLTED TO THE GROUND BAR AND PROTECTED WITH NO-OX COMPOUND.
  2. THE GROUNDING SYSTEM SHALL MEET THE REQUIREMENT OF 5 OHMS OR LESS AS MEASURED FROM THE POLE STRUCTURE USING THE THREE-POINT GROUND MEASUREMENT TECHNIQUE. IF THE 5-OHM REQUIREMENT IS NOT MET, LONGER GROUND RODS MAY BE USED OR THE GROUNDING ARRAY EXTENDED UNTIL THE 5-OHM REQUIREMENT IS MET.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>ITS MOUNTING DETAILS (1)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                 | IT-32     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                 |           |

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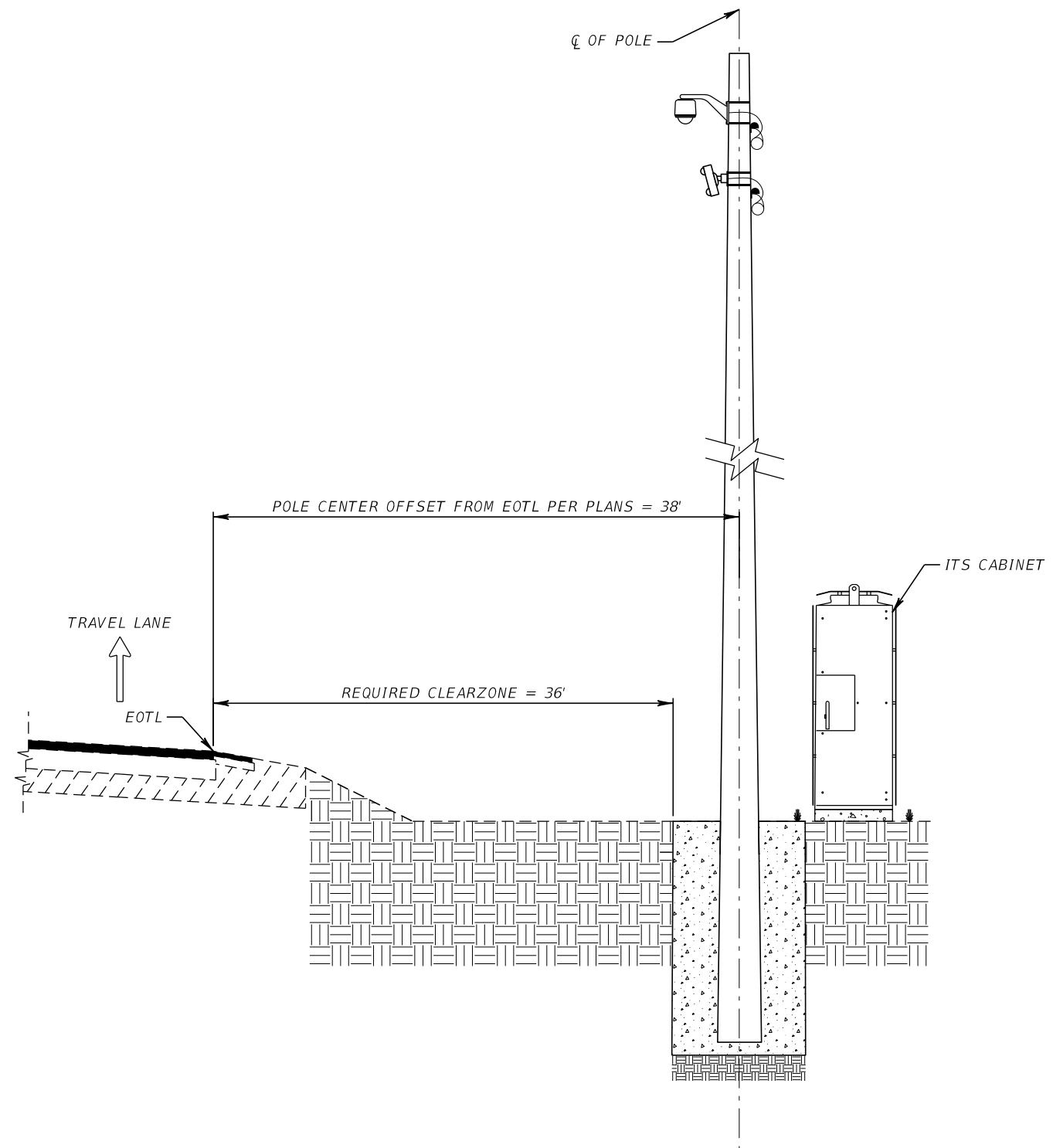


**PROPOSED MAST ARM (TYPICAL)**  
N.T.S.

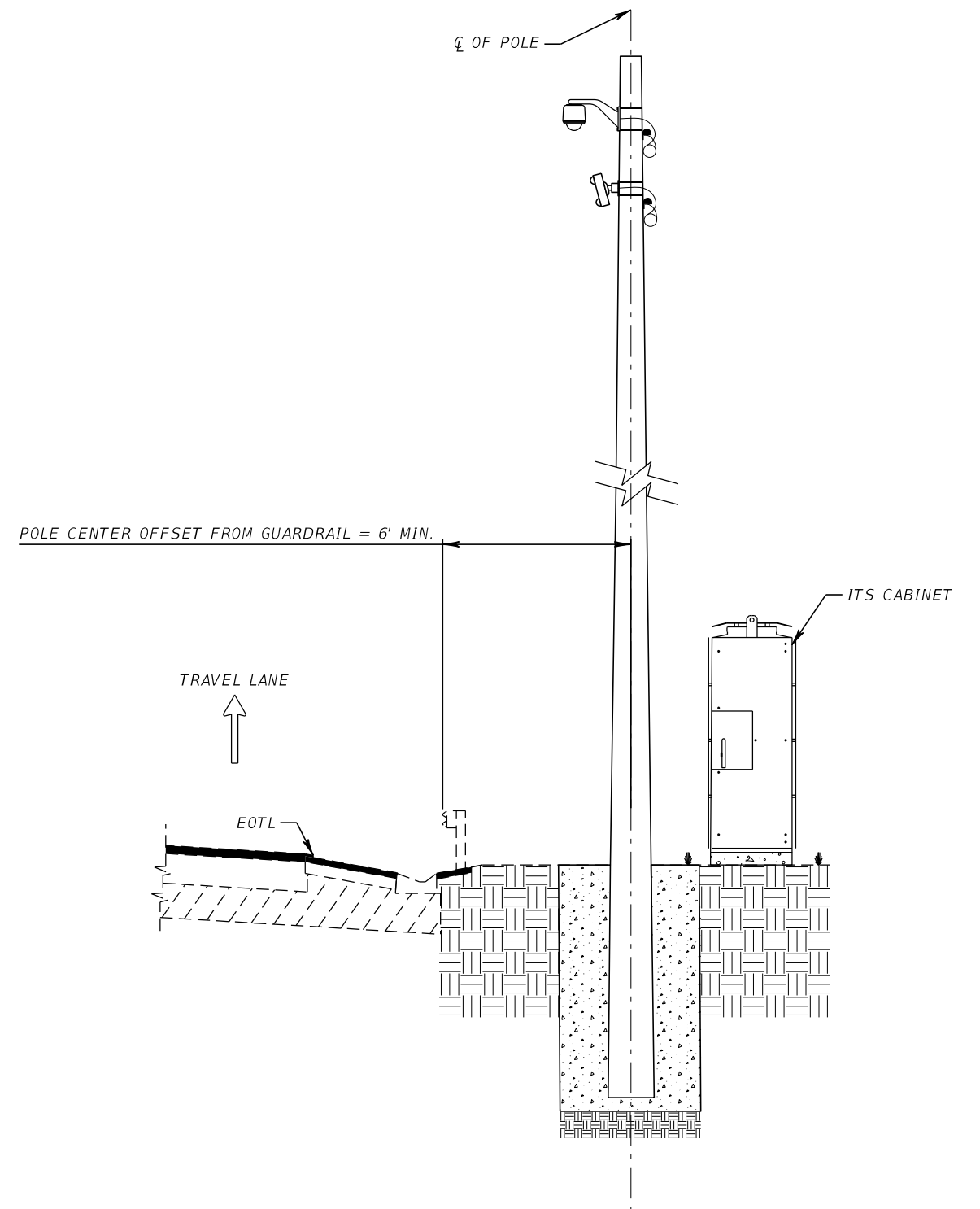
NOTE:  
1. CONTRACTOR SHALL INSTALL CCTV POWER, DATA, AND VIDEO SURGE PROTECTION INSIDE THE CABINET.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>ITS MOUNTING DETAILS (2)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                                 | IT-33     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                                 |           |

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TYPICAL EOTL CLEAR ZONE DETAIL  
NTS



TYPICAL GUARDRAIL CLEAR ZONE DETAIL  
NTS

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

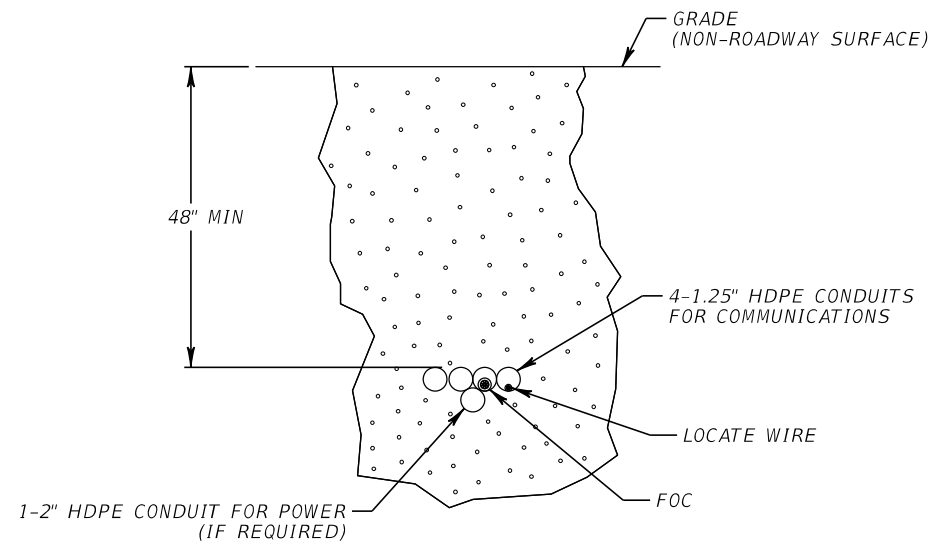
PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

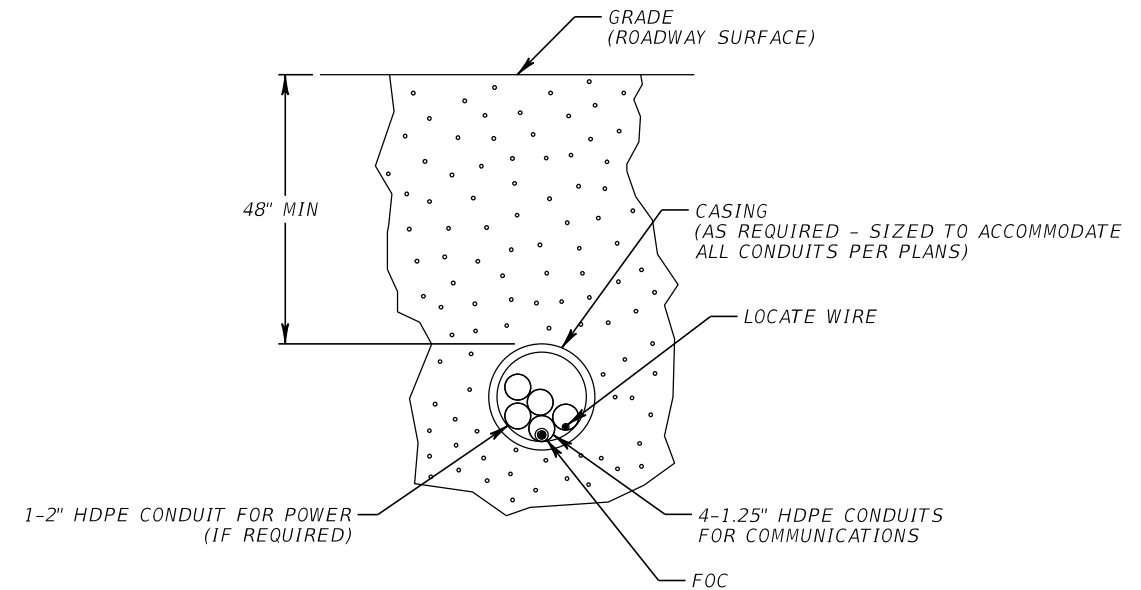
**CLEAR ZONE DETAIL**

SHEET NO.  
IT-34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TYPICAL DIRECTIONAL BORE  
NTS



DIRECTIONAL BORE UNDER ROADWAY SURFACE  
NTS

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
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SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

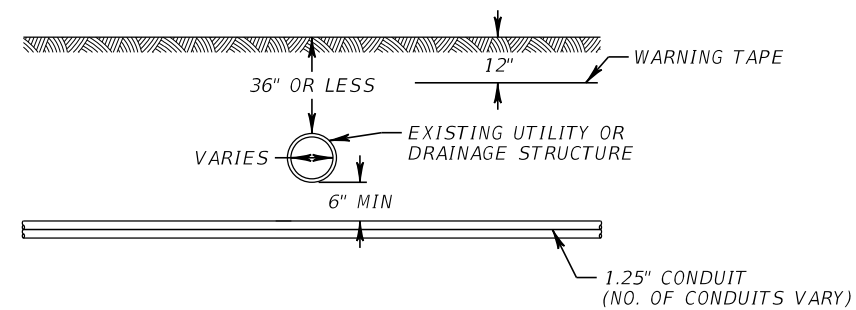
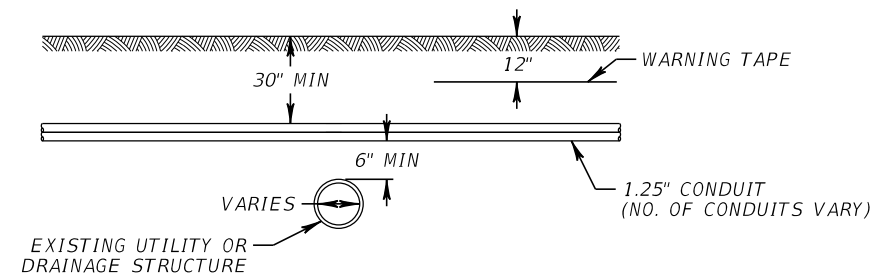
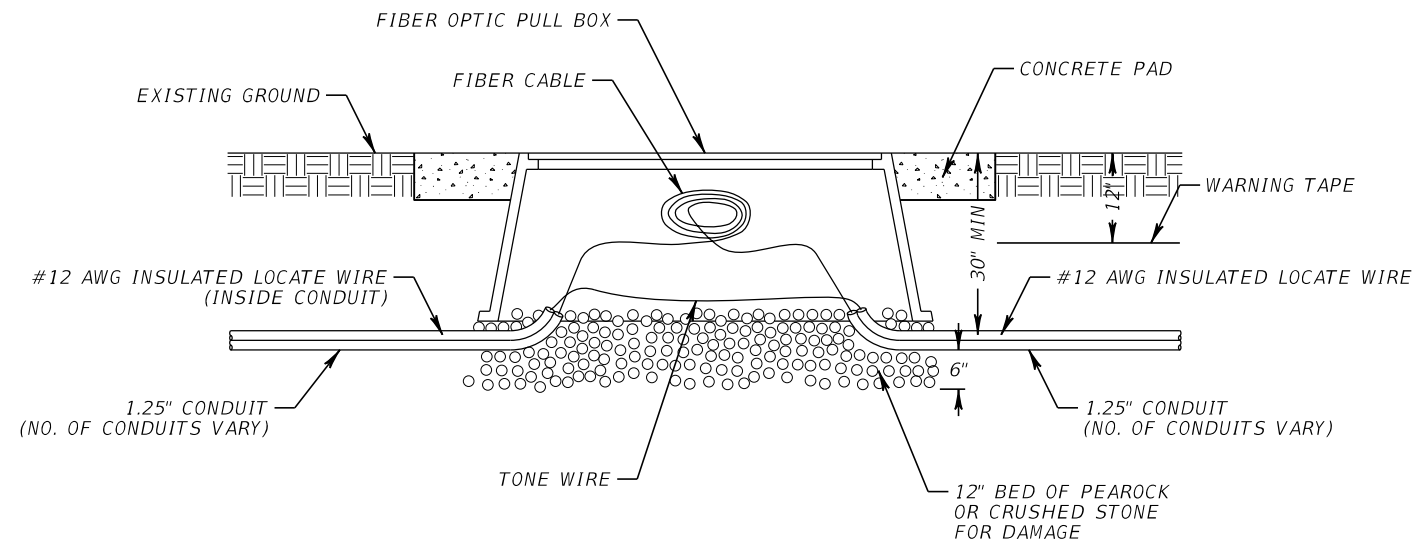
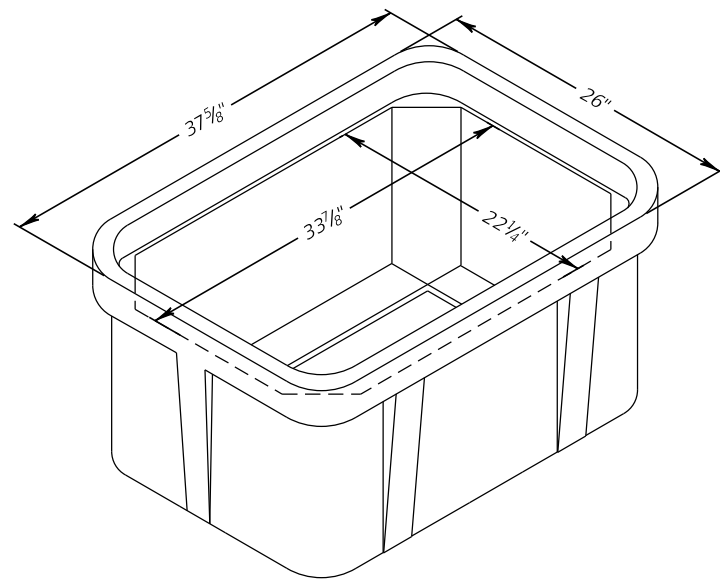
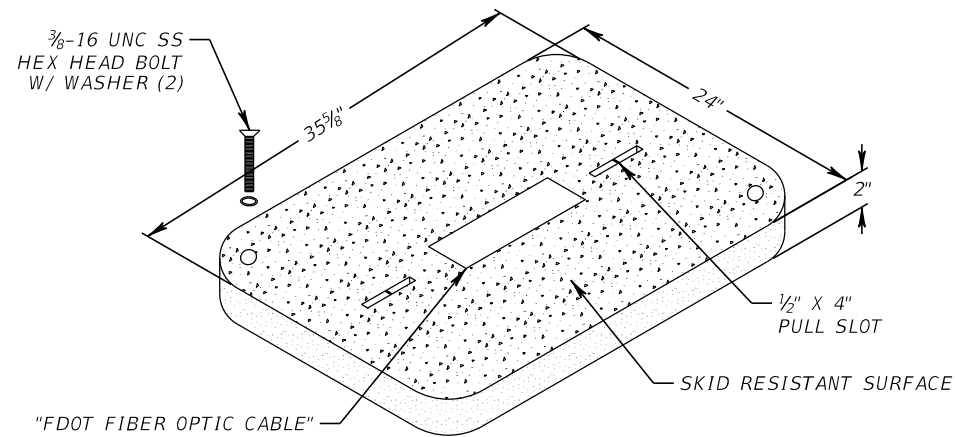
***DIRECTIONAL BORE DETAIL***

SHEET NO.

IT-35

# FIBER OPTIC PULL BOX AND CONDUIT DETAILS

## NTS



**FIBER OPTIC PULL BOX NOTES:**

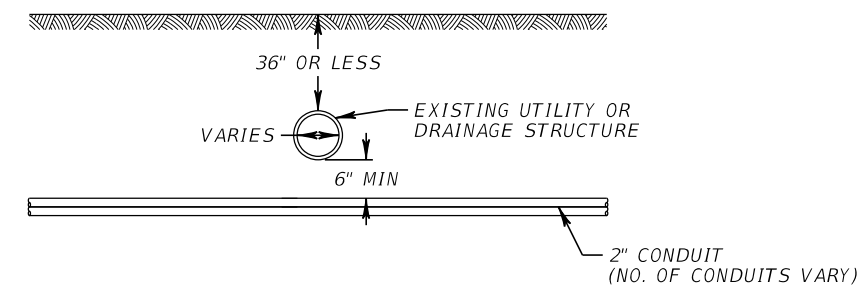
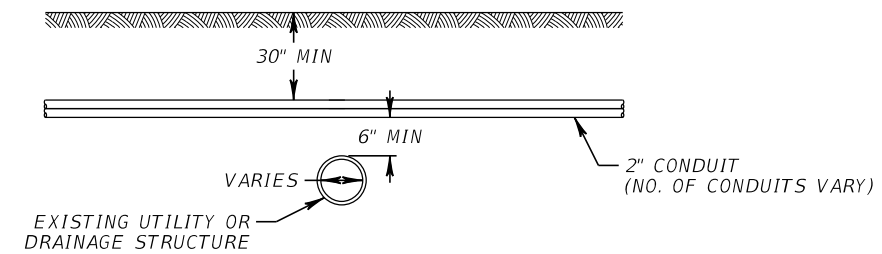
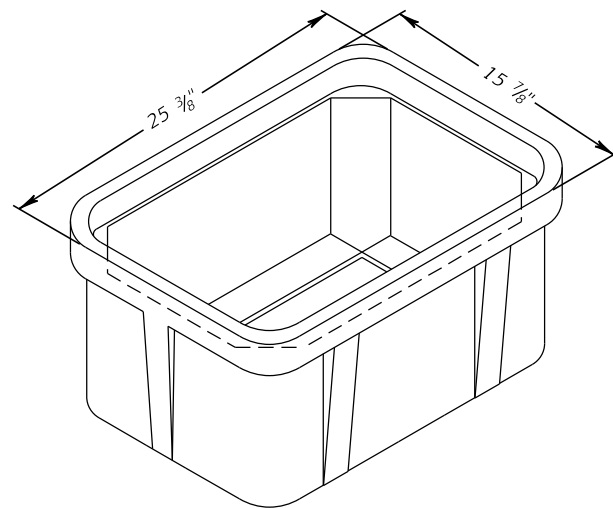
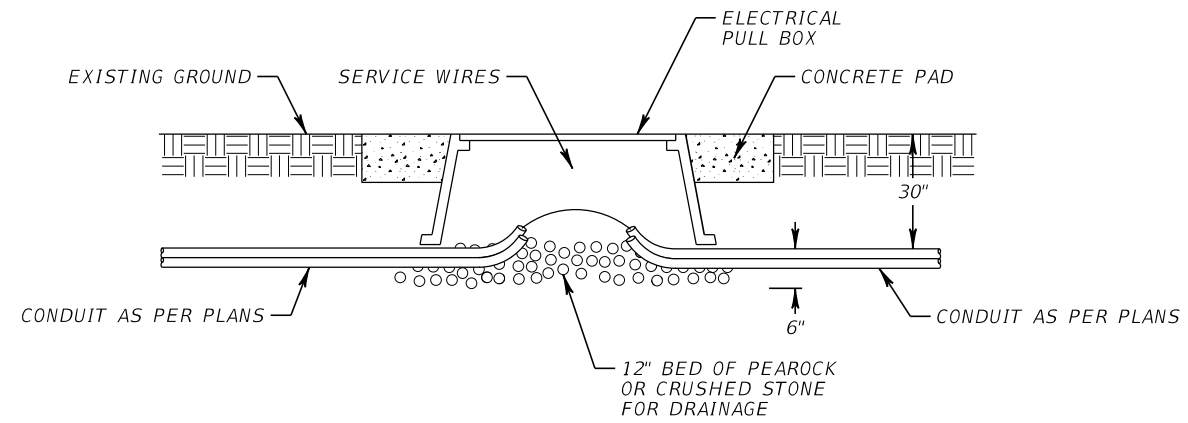
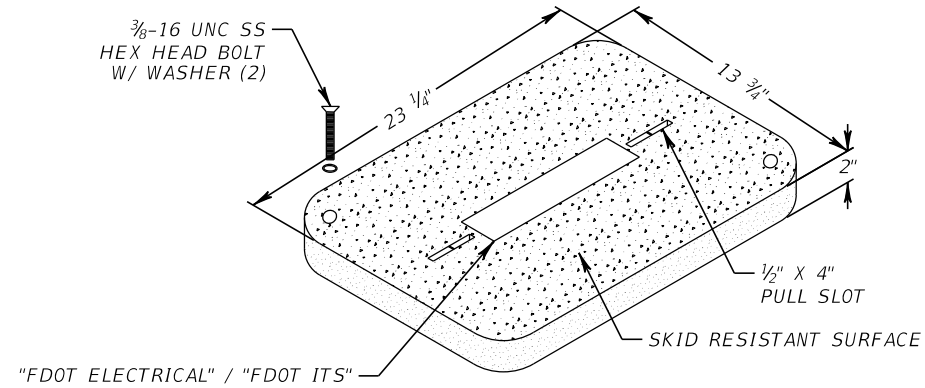
1. FIBER OPTIC PULL BOX SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES.
2. FIBER OPTIC PULL BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE PULL BOX SHALL BE PARALLEL TO THE ROADWAY.
3. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MAXIMUM BENDING RADIUS OF THE FIBER OPTIC CABLE.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>PULL BOX AND<br/>                 CONDUIT DETAIL (1)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |   | IT-36     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |   |           |

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**ELECTRICAL PULL BOX AND CONDUIT DETAILS**  
NTS



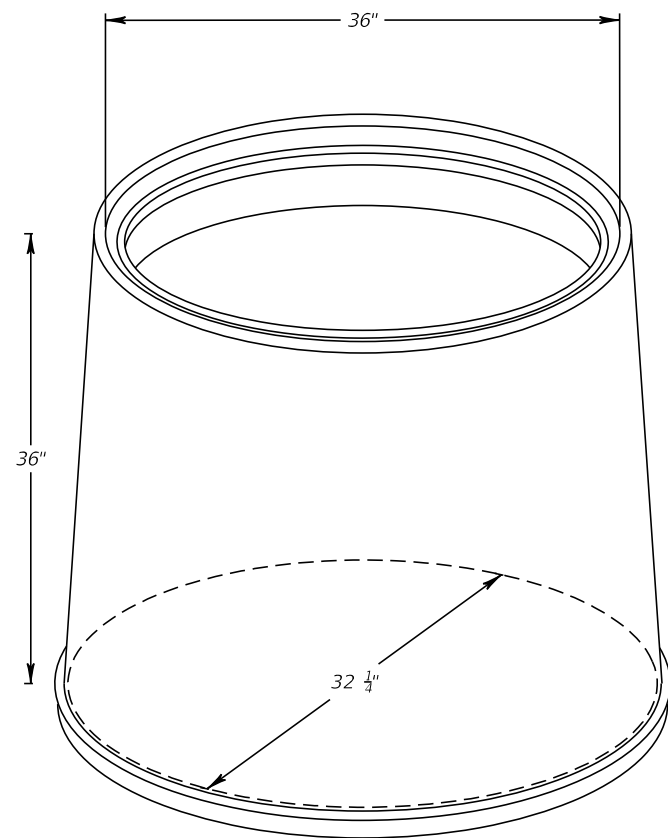
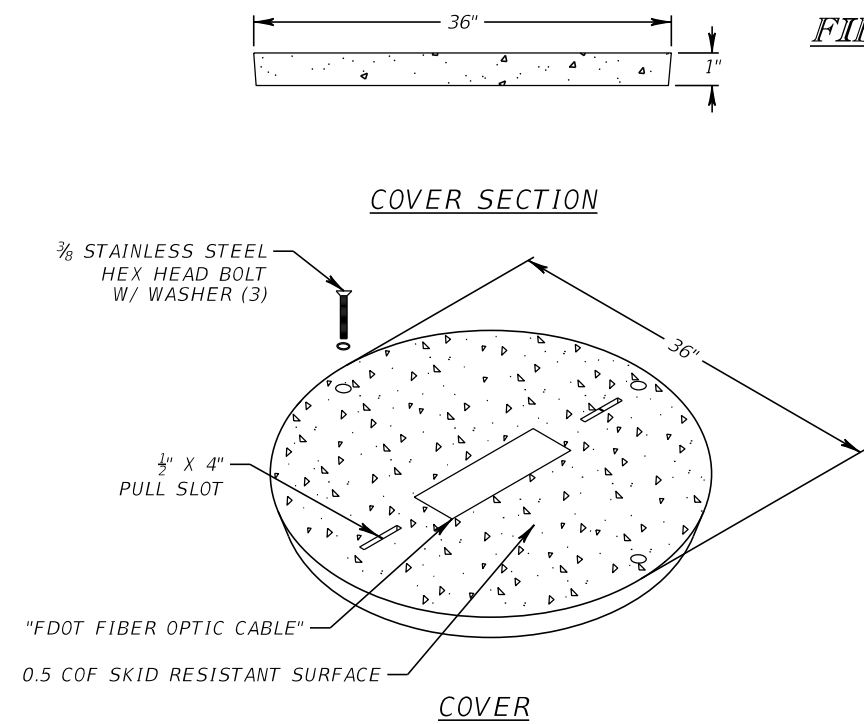
**ELECTRICAL PULL BOX NOTES:**

1. ELECTRICAL PULL BOX SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES.
2. ELECTRICAL PULL BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE PULL BOX SHALL BE PARALLEL TO THE ROADWAY.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>PULL BOX AND<br/>                     CONDUIT DETAIL (2)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|---|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |   | IT-37     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |   |           |

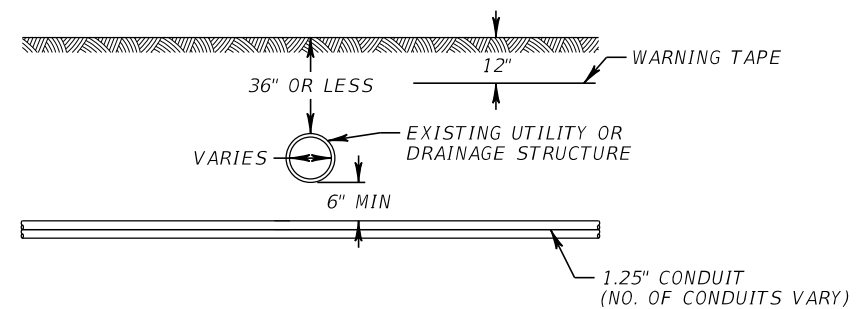
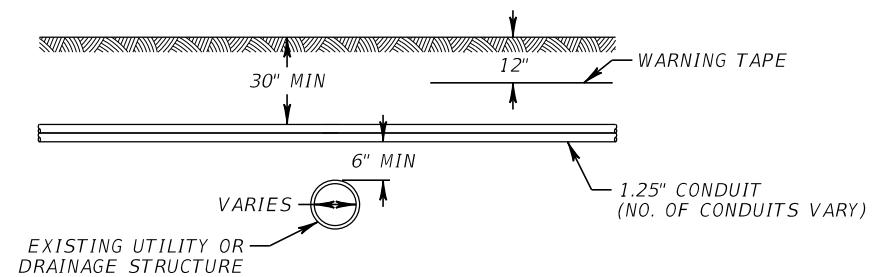
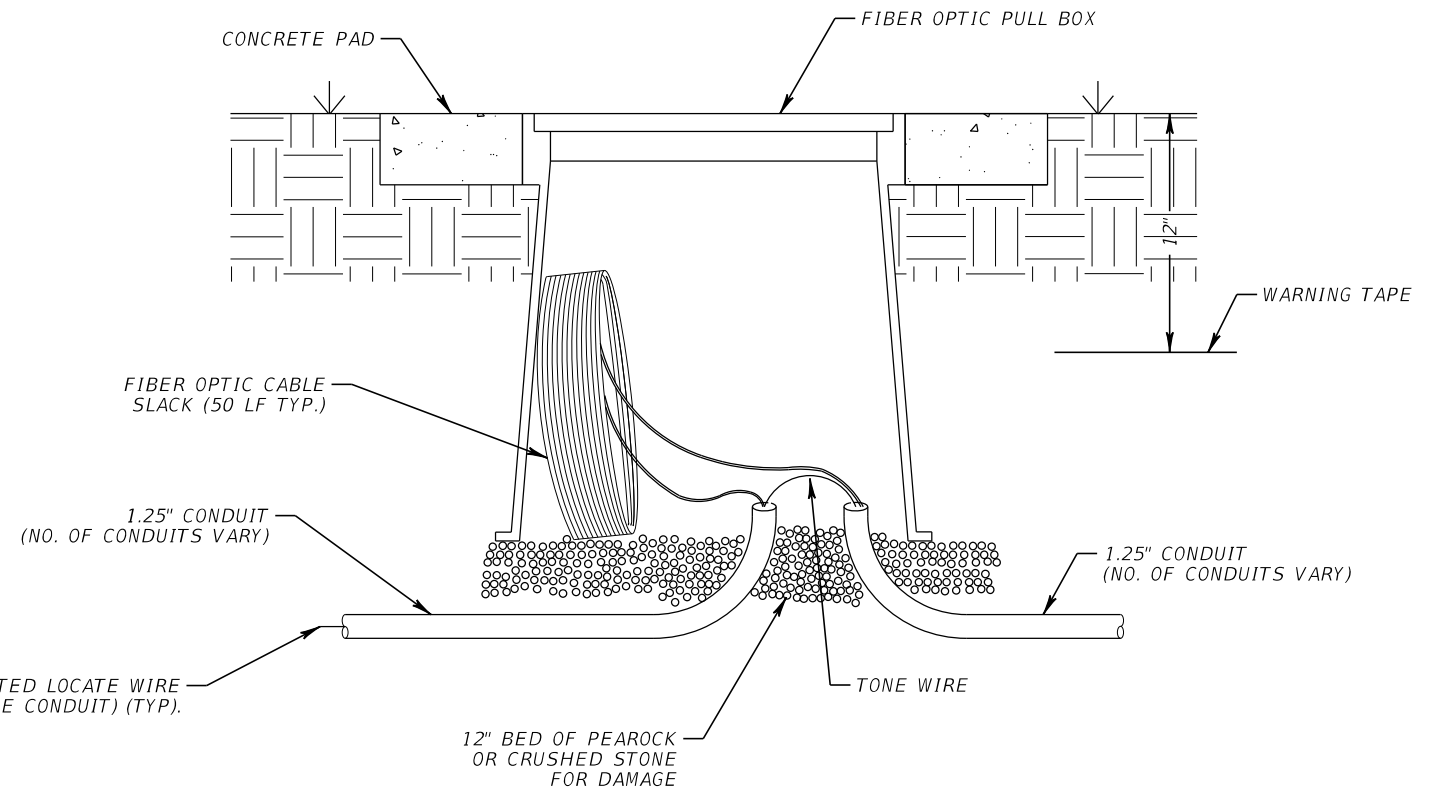
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

**FIBER OPTIC SPLICE BOX AND CONDUIT DETAILS**  
NTS



**FIBER OPTIC SPLICE VAULT NOTES:**

1. CABLE HANGERS ARE REQUIRED FOR SLACK LOOP AND ENCLOSURE.
2. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MAXIMUM BENDING RADIUS OF THE FIBER OPTIC CABLE.



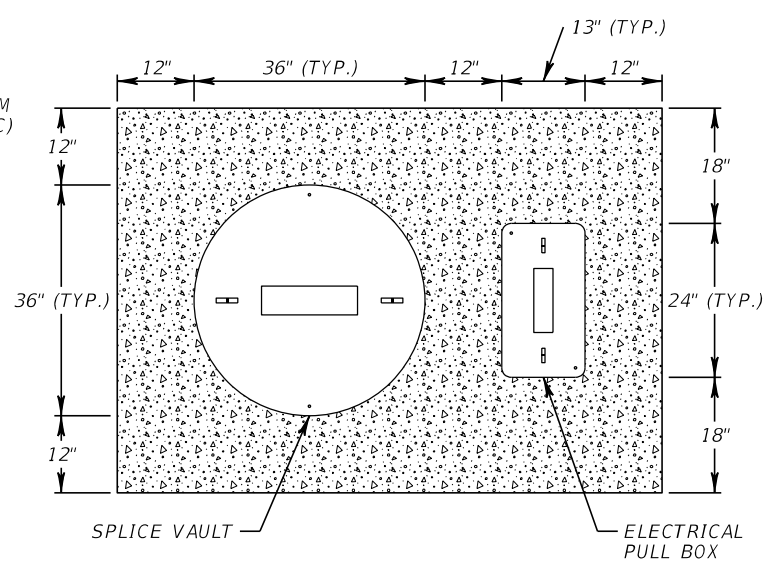
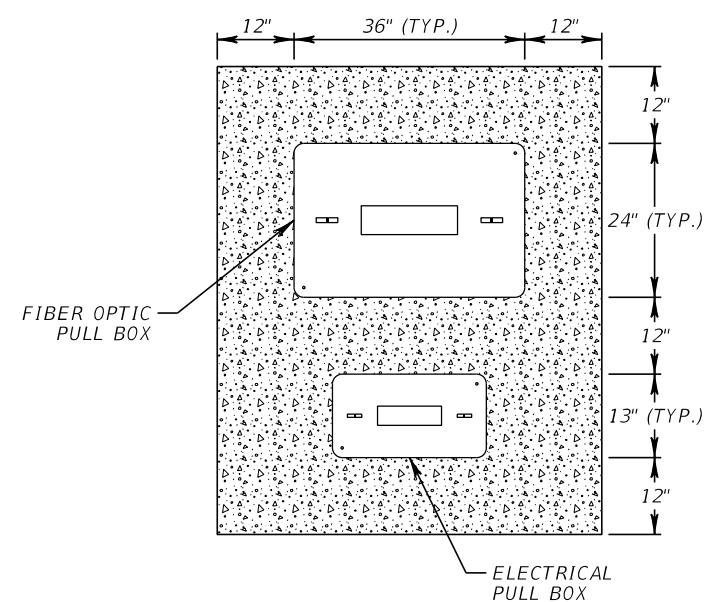
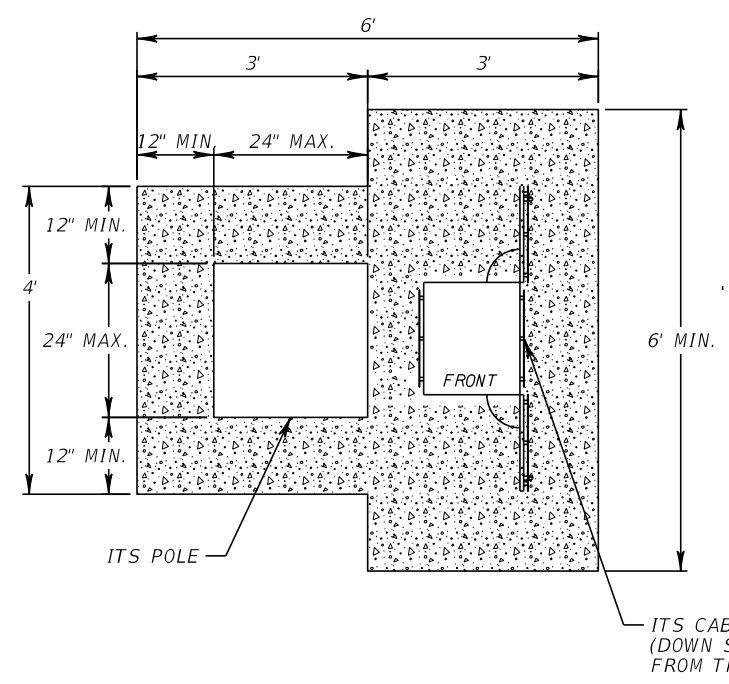
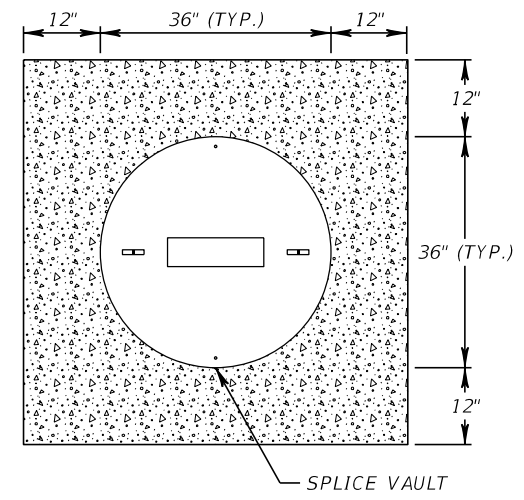
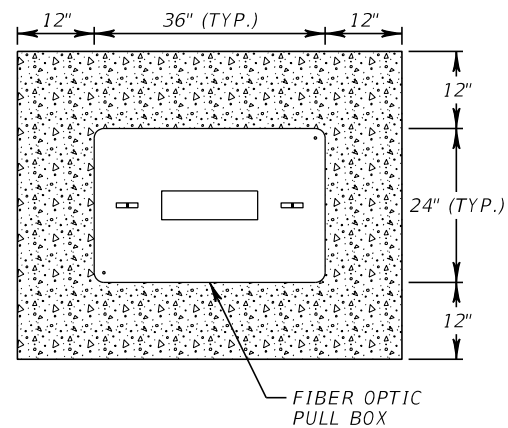
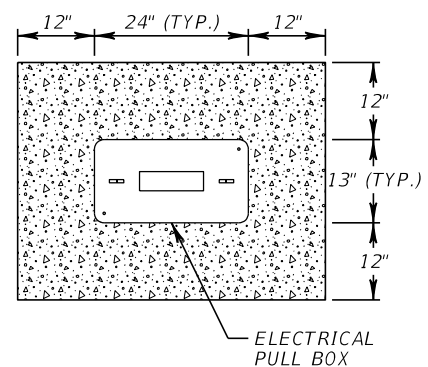
| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**PULL BOX AND  
CONDUIT DETAIL (3)**

SHEET  
NO.  
**IT-38**



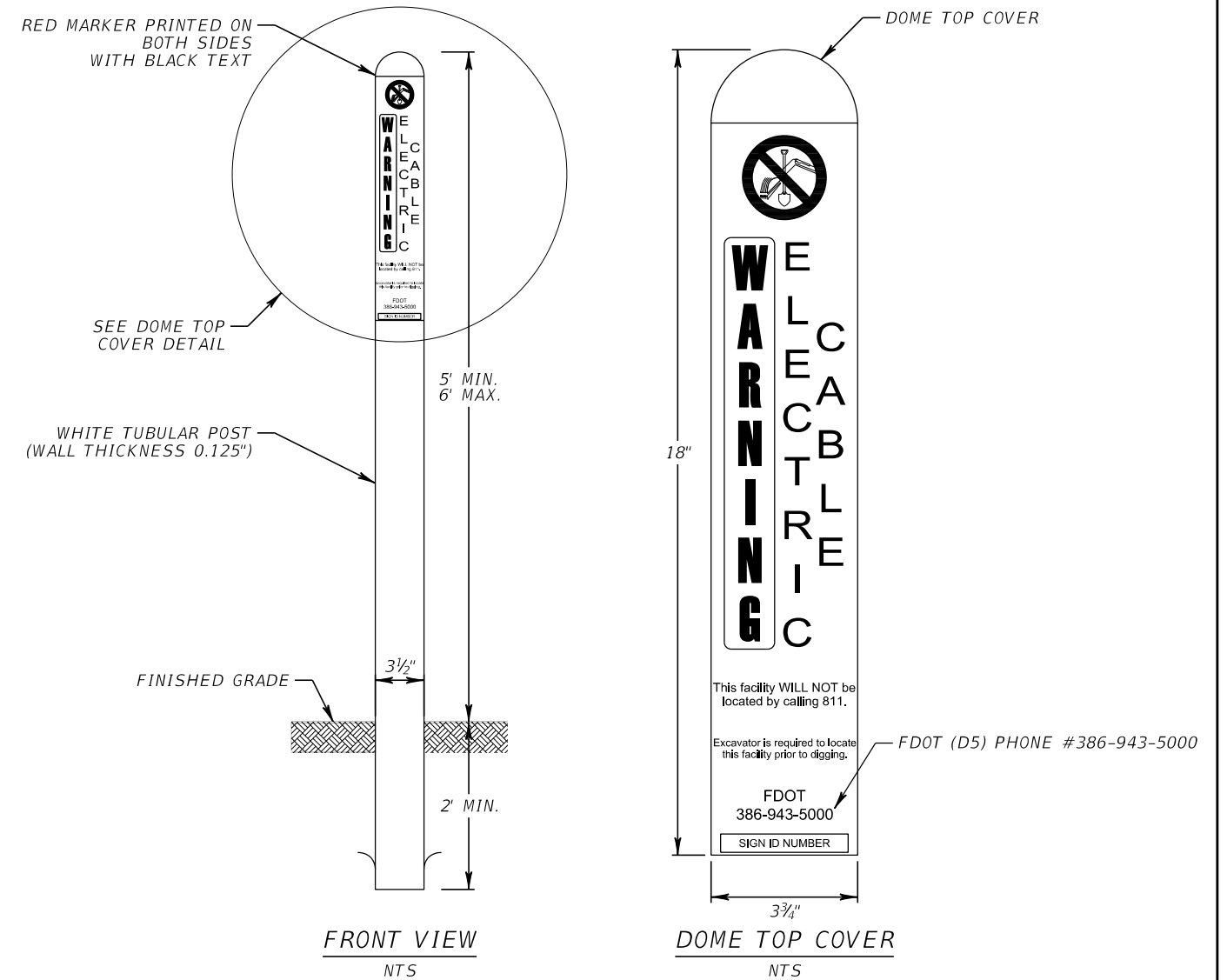
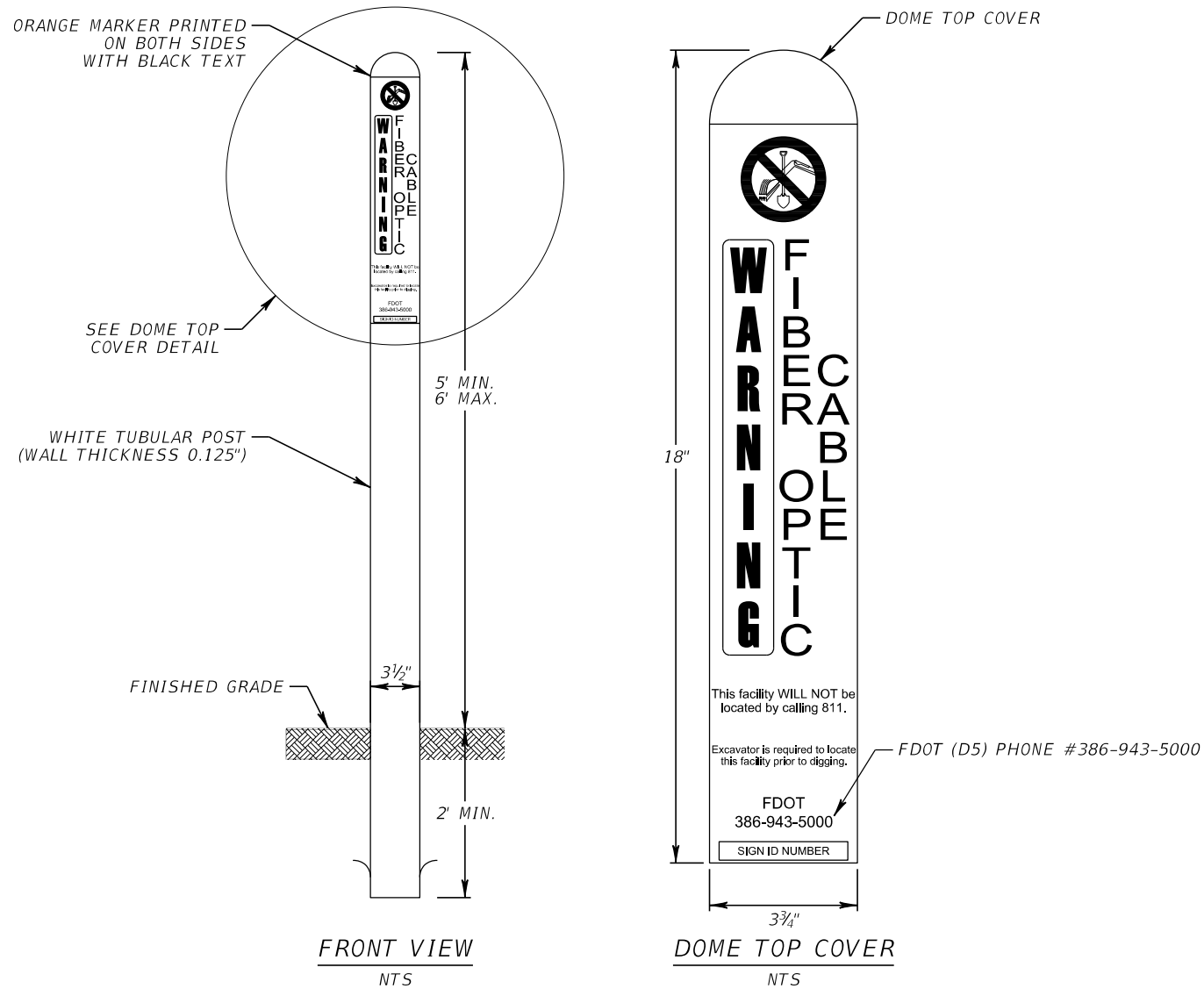
NOTES:  
 1. COST OF CONCRETE PADS SHALL BE INCLUSIVE TO THE DEVICES/EQUIPMENT THAT THE PADS ARE BEING INSTALLED FOR.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>CONCRETE APRON DETAIL</b> | SHEET NO.<br>IT-39 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------------|--------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                              |                    |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                              |                    |

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**FDOT (D5) FIBER OPTIC CABLE ROUTE MARKER**

**FDOT (D5) ELECTRICAL CABLE ROUTE MARKER**



**NOTES:**

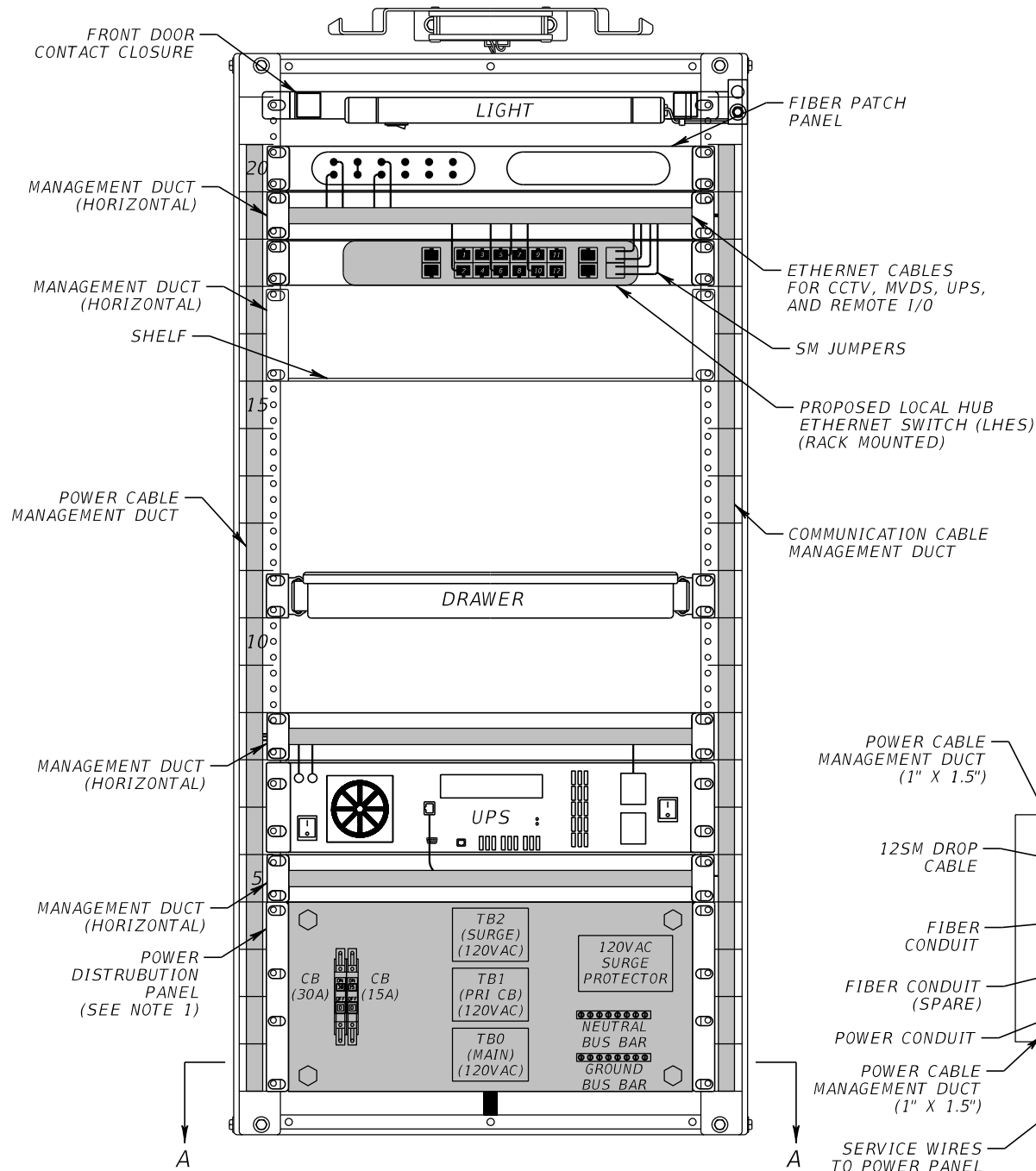
1. FOR TRENCH LINES WITH BOTH FIBER OPTIC CABLE AND ELECTRICAL SERVICE WIRE, INSTALL ELECTRICAL MARKER NEXT TO FIBER MARKER. CONTRACTOR TO CONFIRM CONTACT INFORMATION PHONE NUMBERS PRIOR TO PROCURING ROUTE MARKERS.
2. A DOME TOP COVER SHALL BE INSTALLED ON EACH MARKER: ORANGE FOR FIBER AND RED FOR ELECTRICAL.
3. POST EMBEDMENT AND ANCHORING SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | SHEET NO.<br><br>IT-40 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                        |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                        |

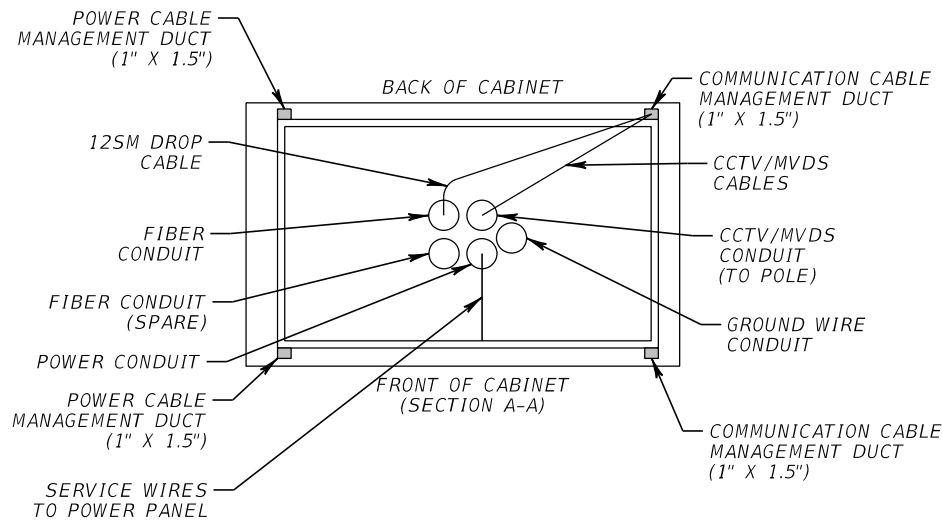
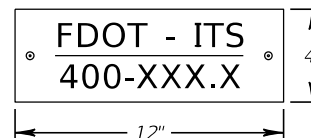
**ROUTE MARKER DETAIL**

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FRONT VIEW



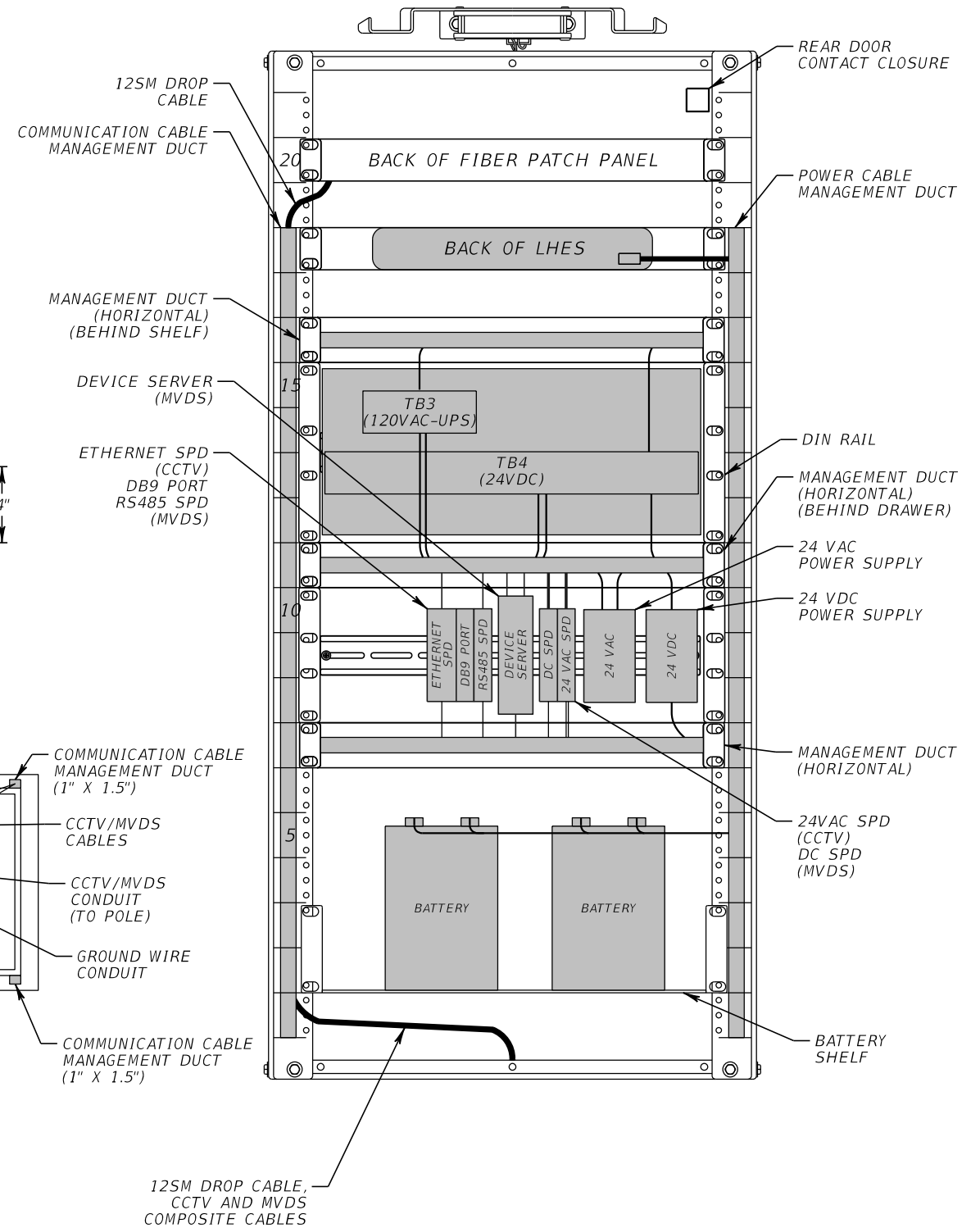
CABINET TAG  
(SEE NOTE 2 & 3)



LHUB 400-68.3  
(MVDS)

LHUB 400-69.7  
(CCTV & MVDS)

BACK VIEW

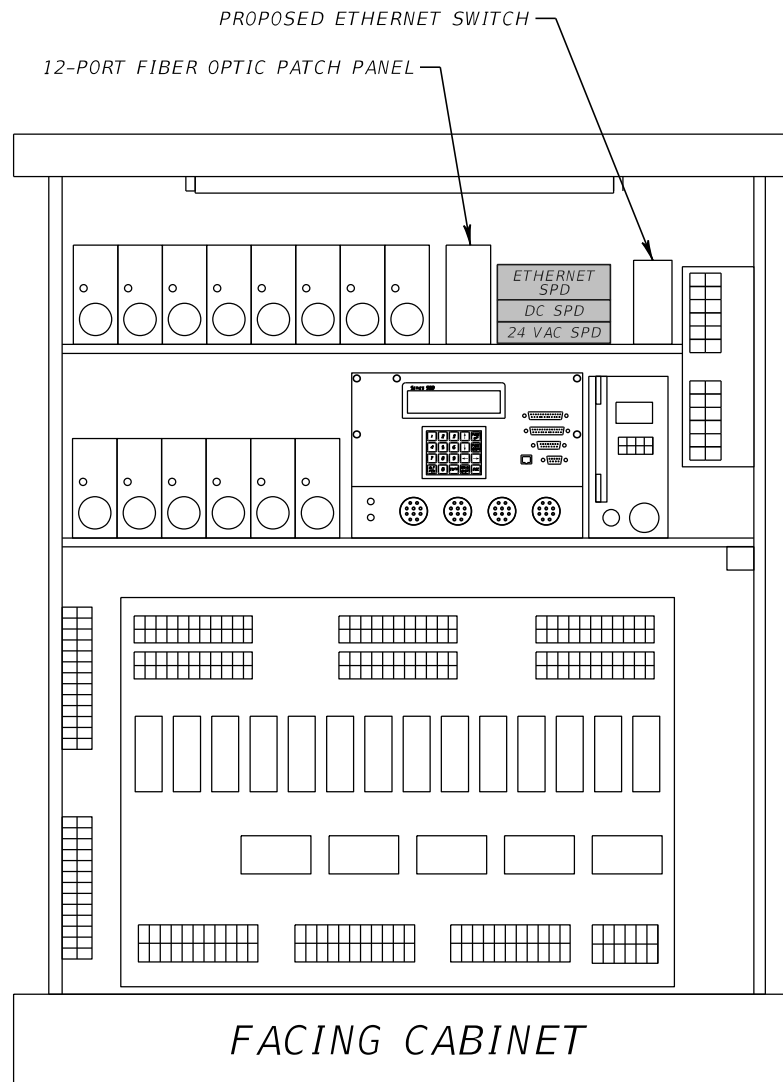


NOTES:

- SEE WIRING DIAGRAMS FOR DETAILED WIRING SCHEMATIC.
- 400-XXX.X REPRESENTS THE LHUB NUMBER OF EACH CABINET.
- CABINET IDENTIFICATION TAG SHALL BE MADE OF ALUMINUM GRADE HIGH INTENSITY PRISMATIC (HIP), GAUGE .080 WITH SQUARE CORNERS. THE TAG SHALL HAVE A GREEN BACKGROUND WITH WHITE 1 1/4" LETTERING AND SHALL BE SECURELY FASTENED TO THE CABINET IN LOCATION OPTIMAL FOR VIEWING FROM THE ROADWAY.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | SHEET NO.<br><br>IT-41 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                        |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                        |

CABINET DETAILS (1)



DARYL CARTER PARKWAY ROAD  
TYPICAL SIGNAL CABINET

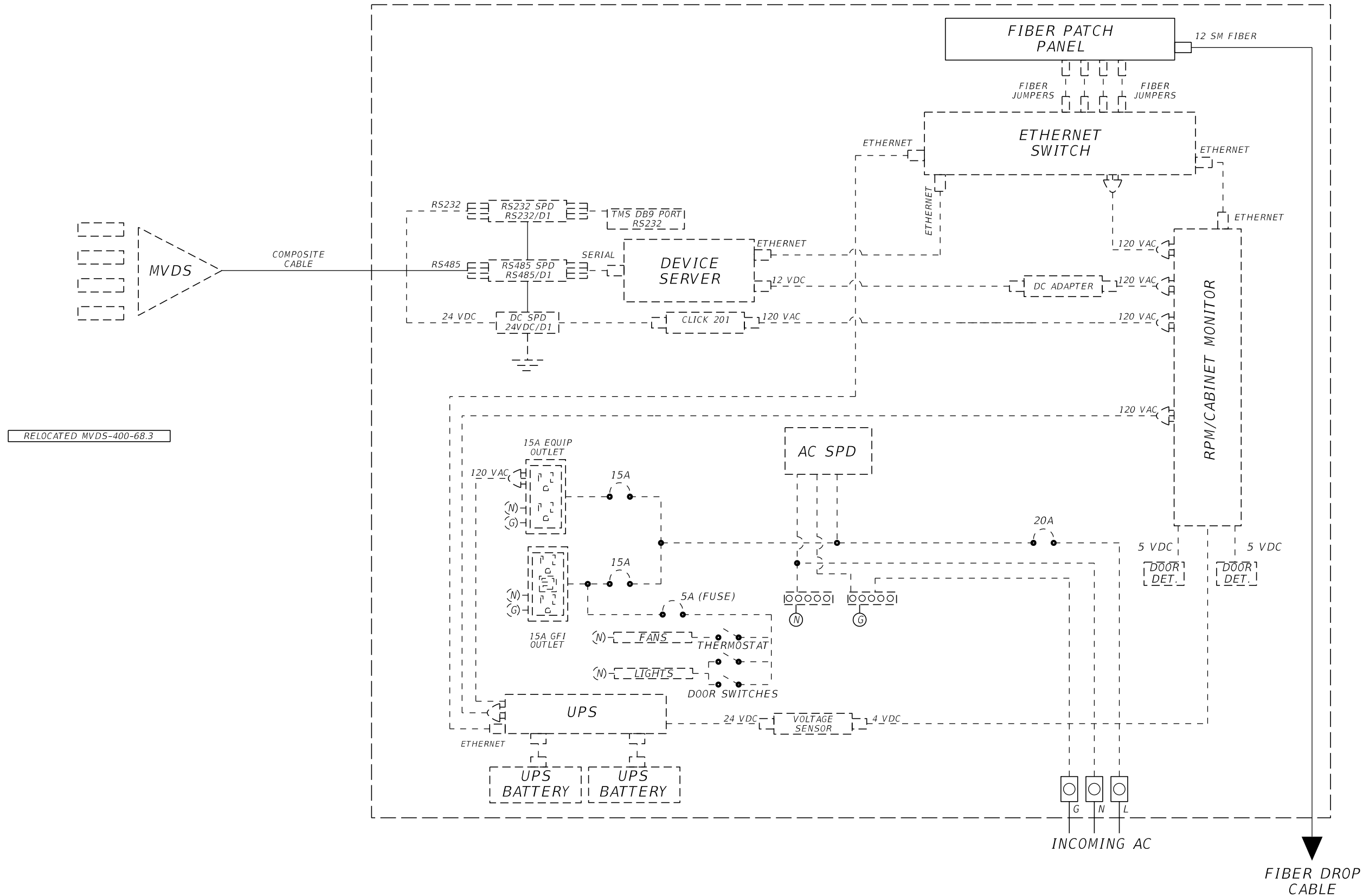
NOTES:  
1. REFER TO SIGNAL PLANS FOR MORE INFORMATION.

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | SHEET NO.<br><br>IT-42 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                        |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                        |

*CABINET DETAILS (2)*

# MVDS CONNECTION DIAGRAM

FIELD EQUIPMENT CABINET - STA. 577+70



RELOCATED MVDS-400-68.3

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

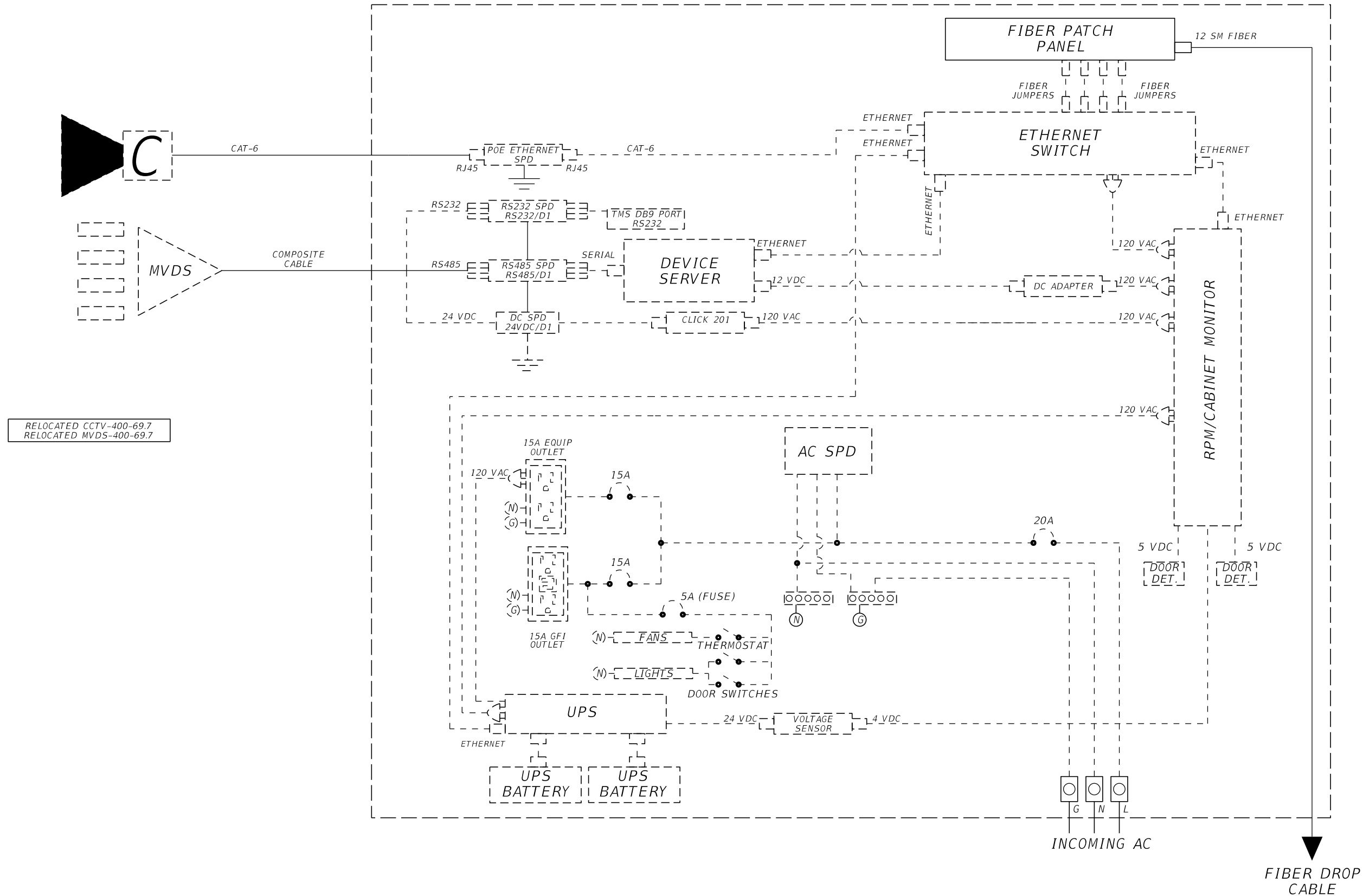
**WIRING DIAGRAM (1)**

SHEET NO.  
IT-43

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# CCTV & MVDS CONNECTION DIAGRAM

FIELD EQUIPMENT CABINET - STA. 644+16



RELOCATED CCTV-400-69.7  
RELOCATED MVDS-400-69.7

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

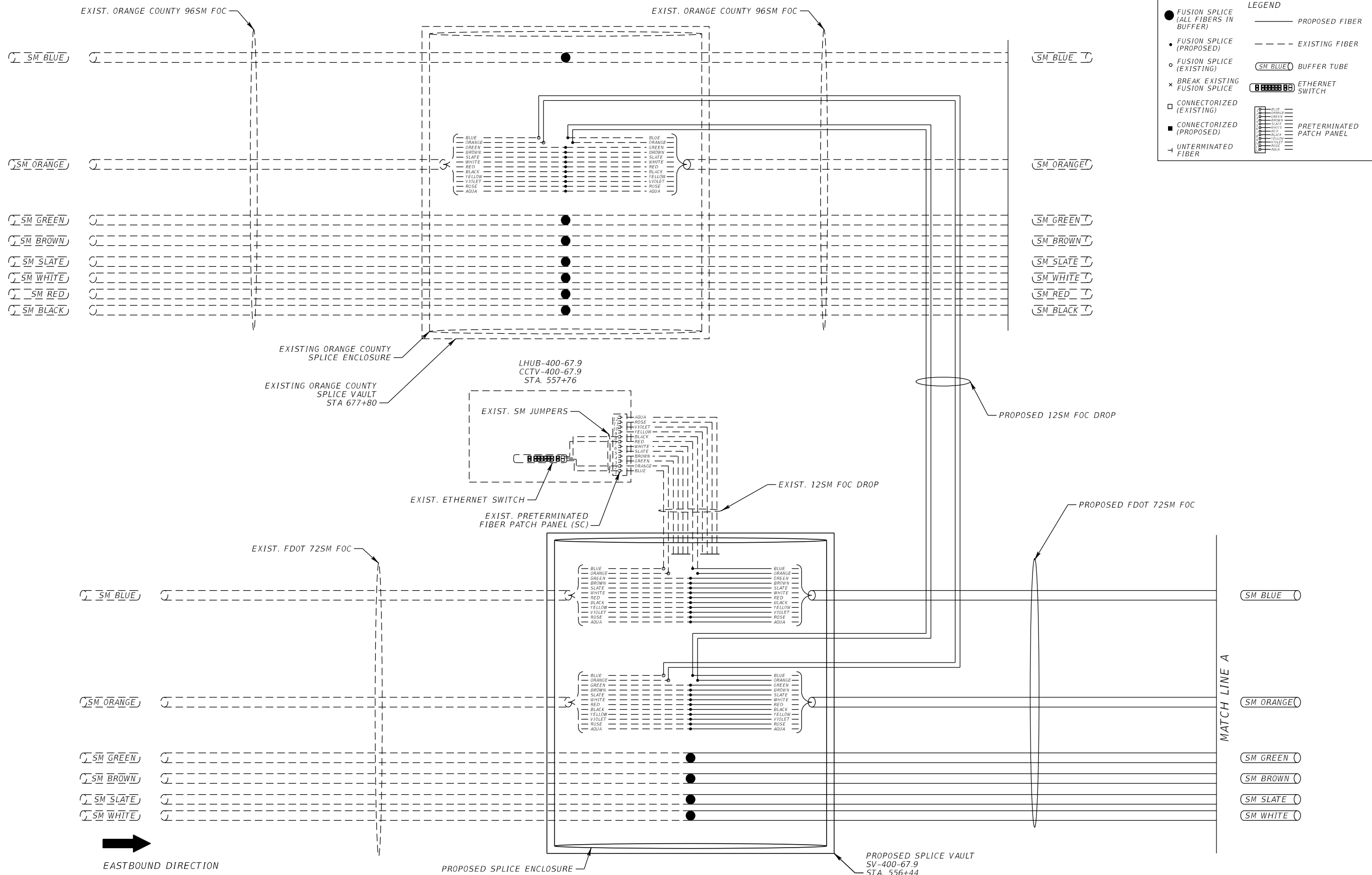
| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**WIRING DIAGRAM (2)**

SHEET NO.  
IT-44

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**LEGEND**

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- ✕ BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNTERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- [Ethernet Switch Symbol] ETHERNET SWITCH
- [Patch Panel Symbol] PRETERMINATED PATCH PANEL

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

PATRICK B. NEVAH, P.E.  
P.E. LICENSE NO. 72369  
AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
SUITE 200, ORLANDO, FL 32801

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|----------|--------|----------------------|
| SR 400   | ORANGE | 441113-1-52-01       |

**SPLICING DIAGRAMS (1)**

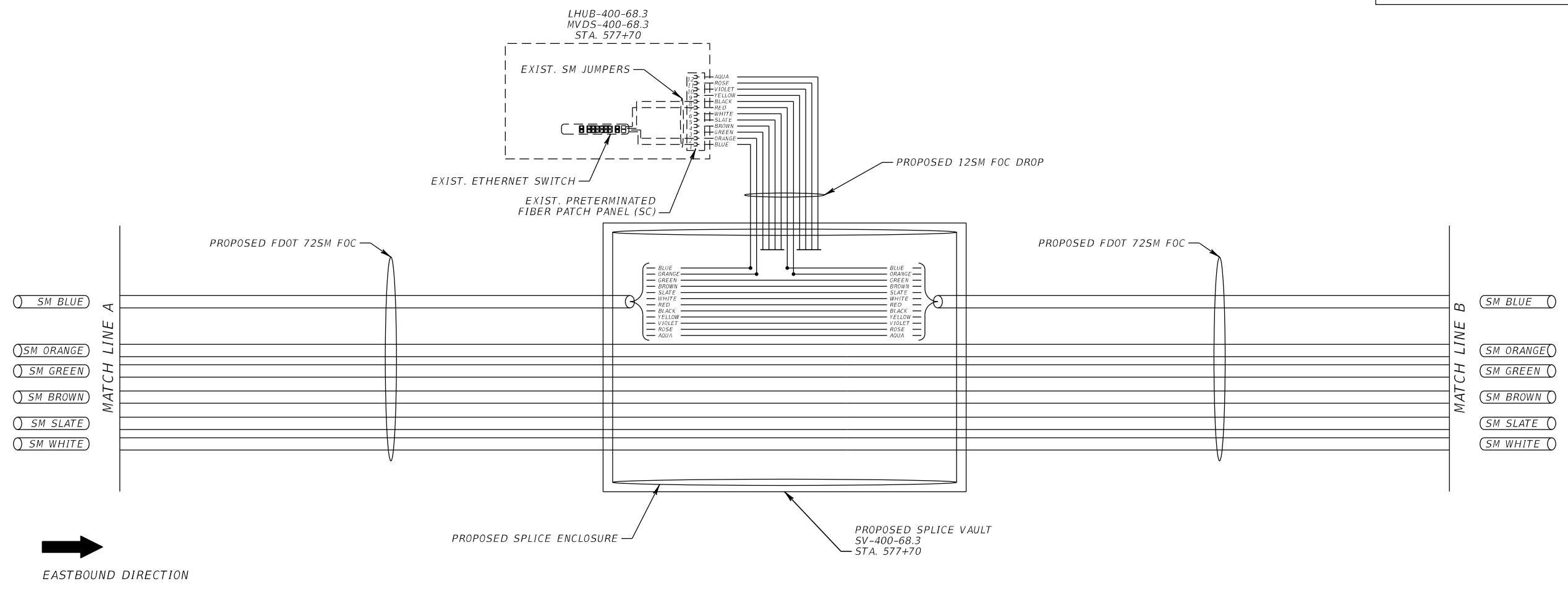
SHEET NO.  
IT-45

4/28/2020 4:13:39 PM c:\pwworking\aecom\_na\mdimran.shah\d0164808\spdit01\_4B.dgn

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

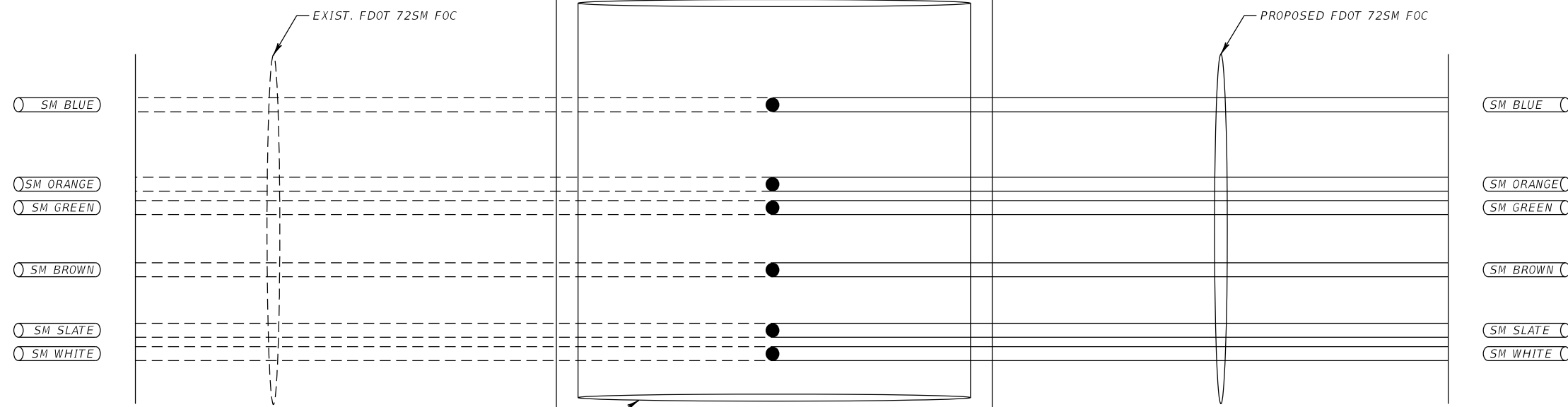
**LEGEND**

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- ETHERNET SWITCH
- PRETERMINATED PATCH PANEL



| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>SPLICING DIAGRAMS (2)</b><br><br>SHEET NO.<br>IT-46 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|--|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |  |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |  |

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

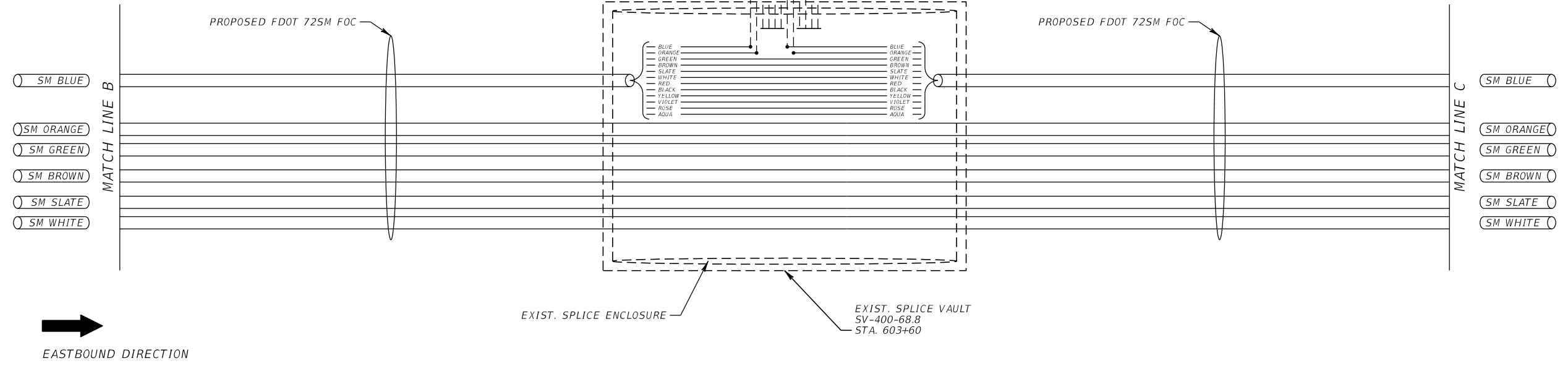
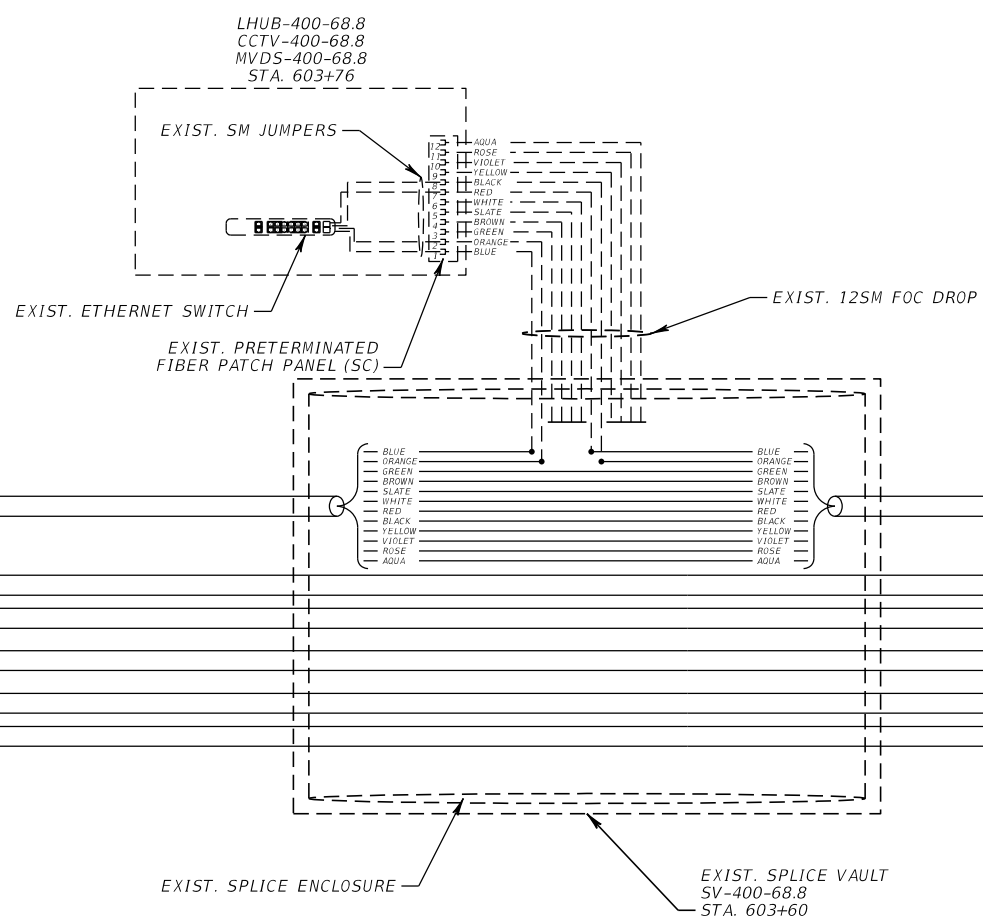


**LEGEND**

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- UNTERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- (ETHERNET SWITCH)
- (BLUF) BLUE
- (ORNG) ORANGE
- (GRN) GREEN
- (BRN) BROWN
- (SLT) SLATE
- (RED) RED
- (WH) WHITE
- (BLK) BLACK
- (YEL) YELLOW
- (VLT) VIOLET
- (RS) ROSE
- (AQU) AQUA
- (PRETERMINATED PATCH PANEL)

← WESTBOUND DIRECTION

PROPOSED SPLICE ENCLOSURE  
 PROPOSED SPLICE VAULT SV-400-68.8-WB STA. 602+82



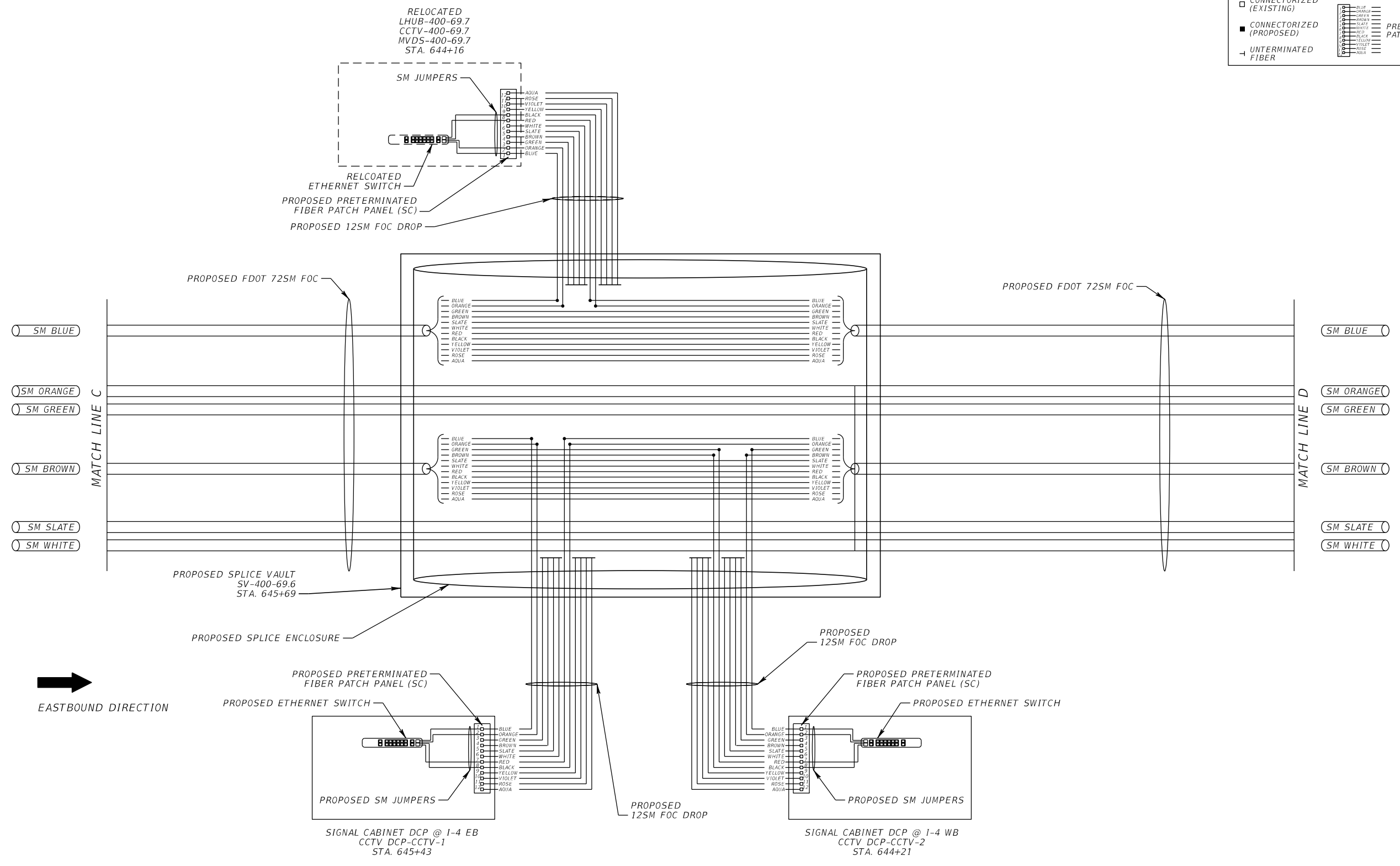
→ EASTBOUND DIRECTION

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>SPLICING DIAGRAMS (3)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                              |           |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                              |           |

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**LEGEND**

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- (Ethernet Switch Icon) ETHERNET SWITCH
- (Patch Panel Icon) PRETERMINATED PATCH PANEL



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

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 AECOM TECHNICAL SERVICES, INC.  
 150 NORTH ORANGE AVENUE,  
 SUITE 200, ORLANDO, FL 32801

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

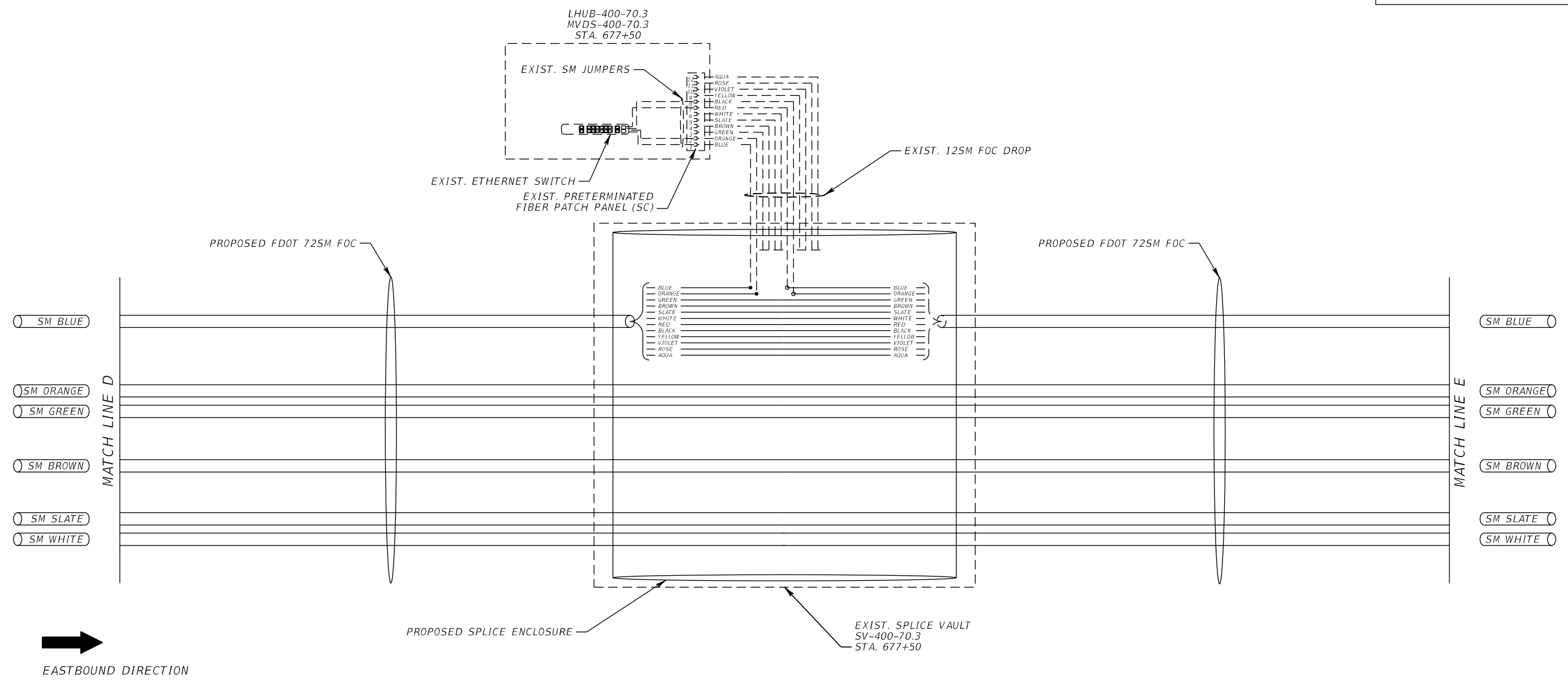
**SPLICING DIAGRAMS (4)**

SHEET NO.  
IT-48

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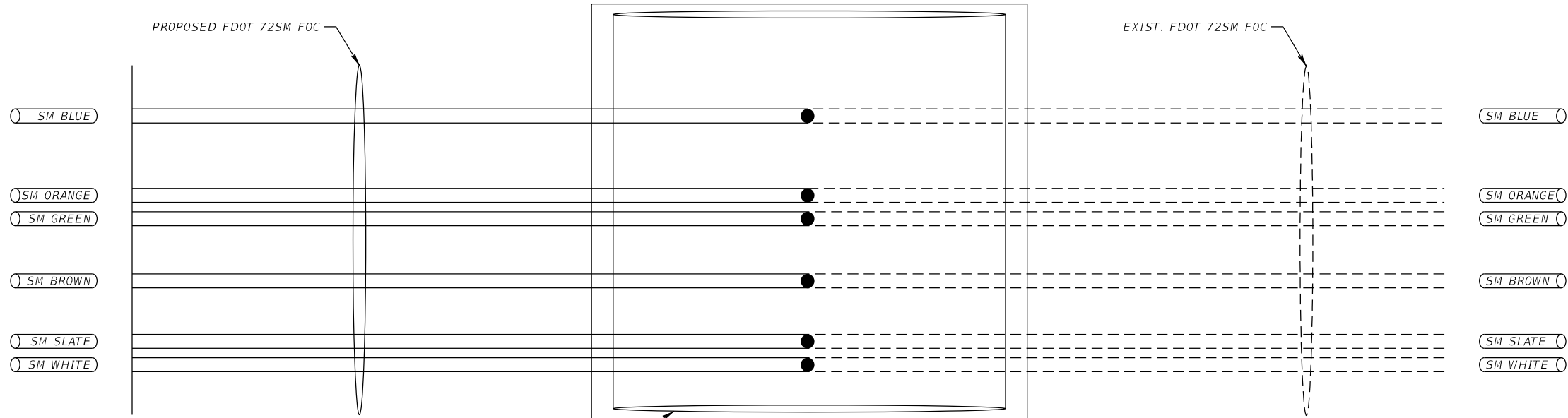
**LEGEND**

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- [Ethernet Switch Symbol] ETHERNET SWITCH
- [Patch Panel Symbol] PRETERMINATED PATCH PANEL



| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>SPLICING DIAGRAMS (5)</b> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                              | IT-49     |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                              |           |

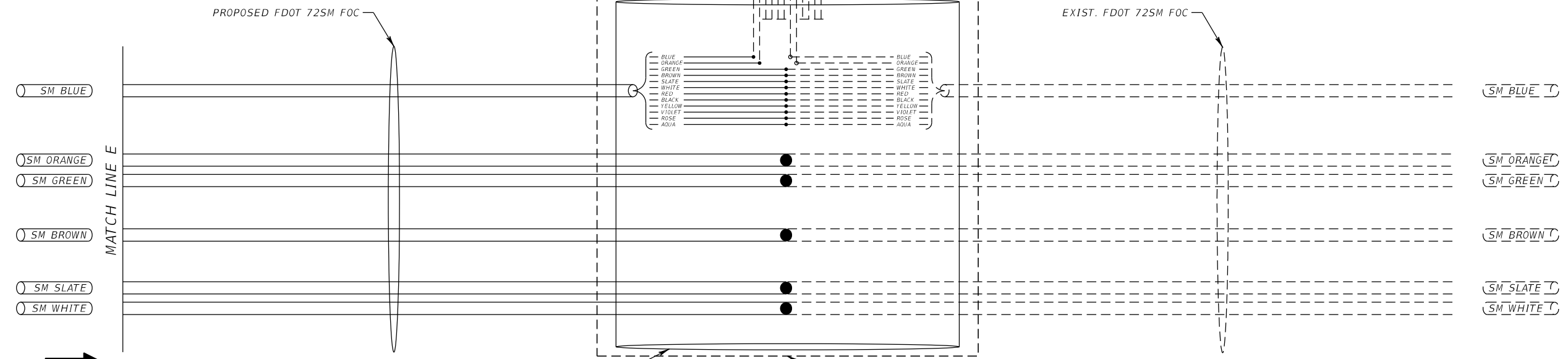
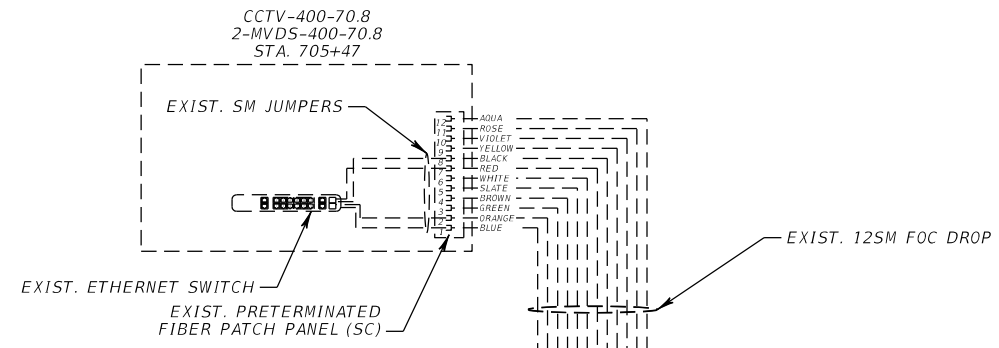
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WESTBOUND DIRECTION

**LEGEND**

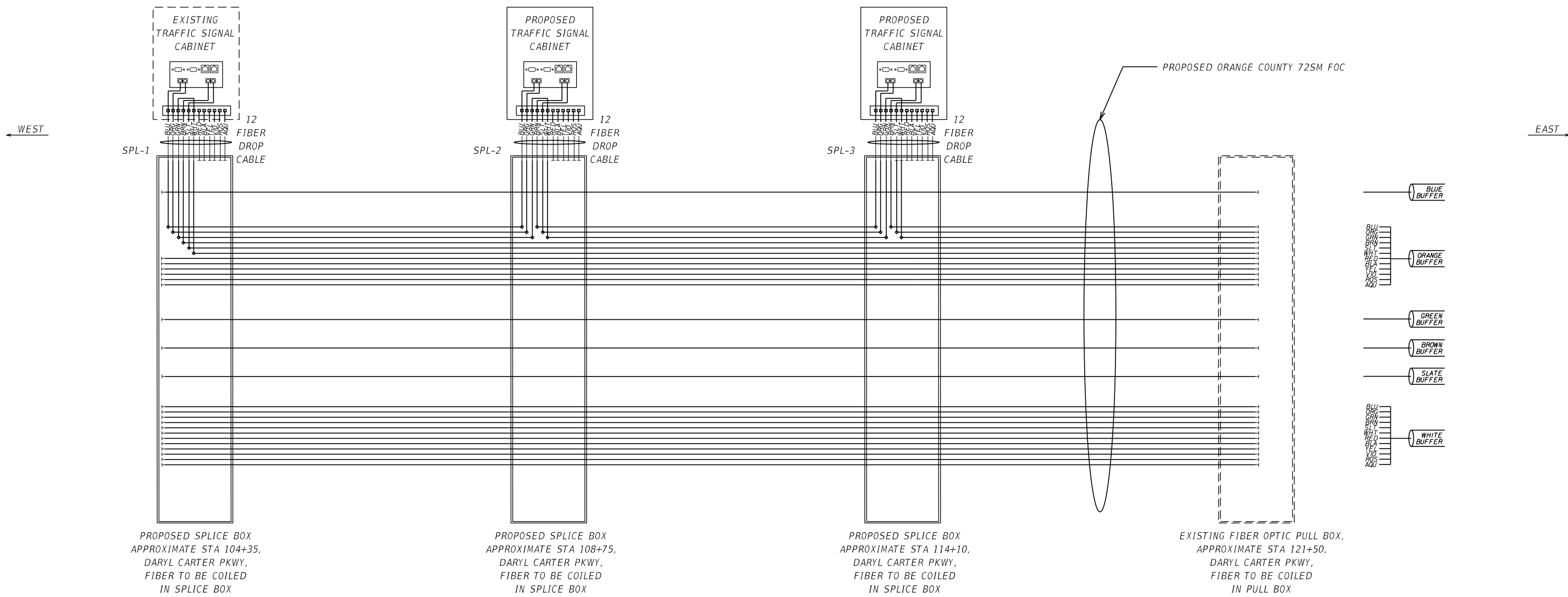
- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- FIBER
- - - FIBER TO BE INSTALLED IN FPID #437493-1-52-01
- SM BLUE BUFFER TUBE
- ETHERNET SWITCH
- PRETERMINATED PATCH PANEL



EASTBOUND DIRECTION

| REVISIONS |             |      |             | PATRICK B. NEVAH, P.E.<br>P.E. LICENSE NO. 72369<br>AECOM TECHNICAL SERVICES, INC.<br>150 NORTH ORANGE AVENUE,<br>SUITE 200, ORLANDO, FL 32801 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      | <b>SPLICING DIAGRAMS (6)</b> | SHEET NO.<br>IT-50 |
|-----------|-------------|------|-------------|--|--|--------|----------------------|------------------------------|--------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |                              |                    |
|           |             |      |             |  | SR 400   | ORANGE | 441113-1-52-01       |                              |                    |

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**LEGEND:**

= FIELD CABINET  
 = 10/100 Mbps ETHERNET SWITCH (SINGLE MODE)  
 = 12-PORT FIELD TERMINATED PATCH PANEL

**NOTE:**

1. ALL TRUNK FIBERS ARE TO REMAIN SPLICED THROUGH. CUT AND SPLICE TO THE DROP FIBER ONLY THOSE FIBERS SHOWN.

= 100 Mbps ETHERNET PORT  
 = FIBER SPLICE  
 = UNTERMINATED FIBER  
 = MULTIPLE SPLICE

| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

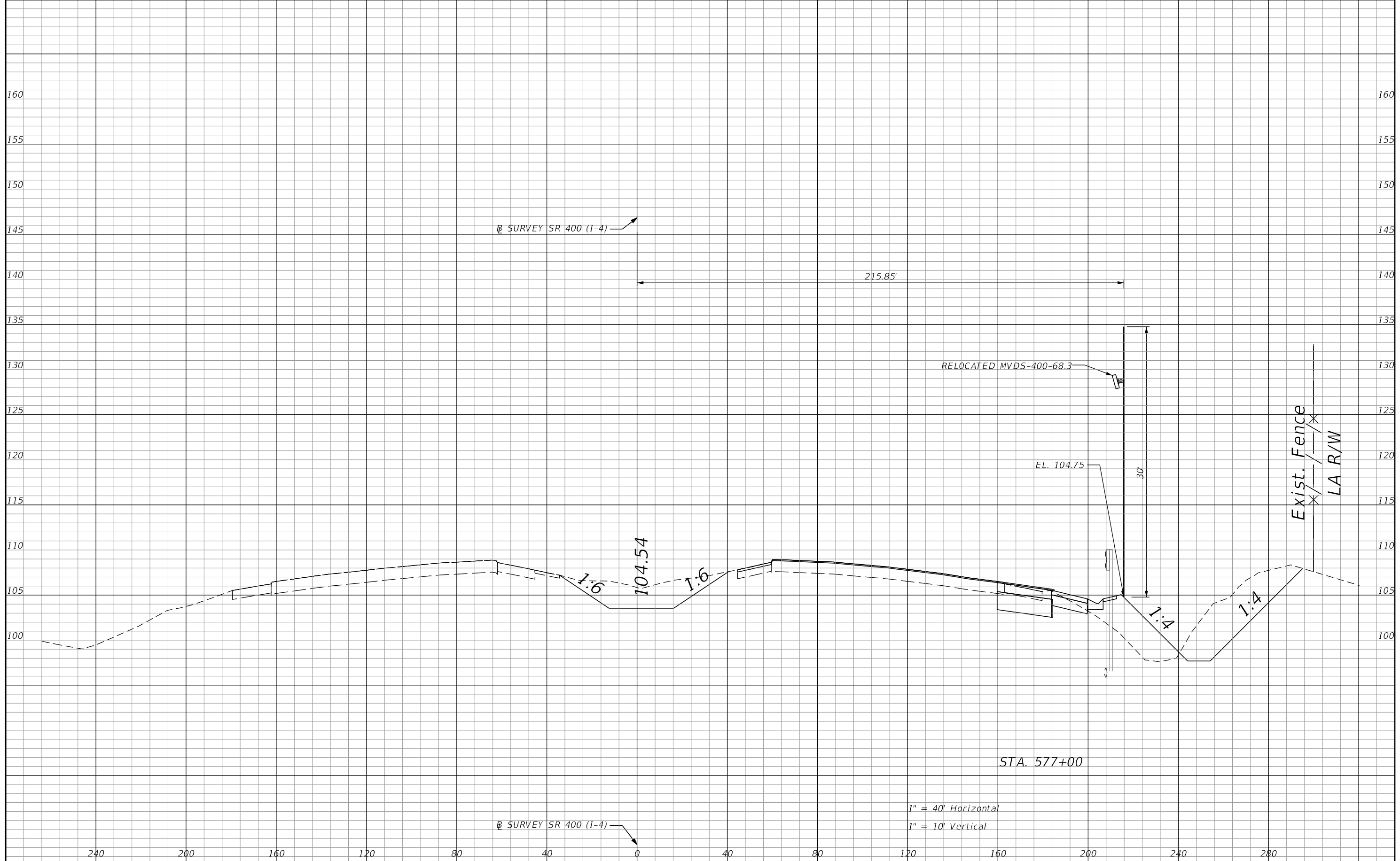
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|--|--------|----------------------|
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
| SR 400   | ORANGE | 441113-1-52-01       |

**INTERCONNECT  
 SPLICING DIAGRAM**

SHEET NO.  
 IT-51

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|           |             |      |             |

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AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
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| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
|  |        |                      |

STA. 577+00

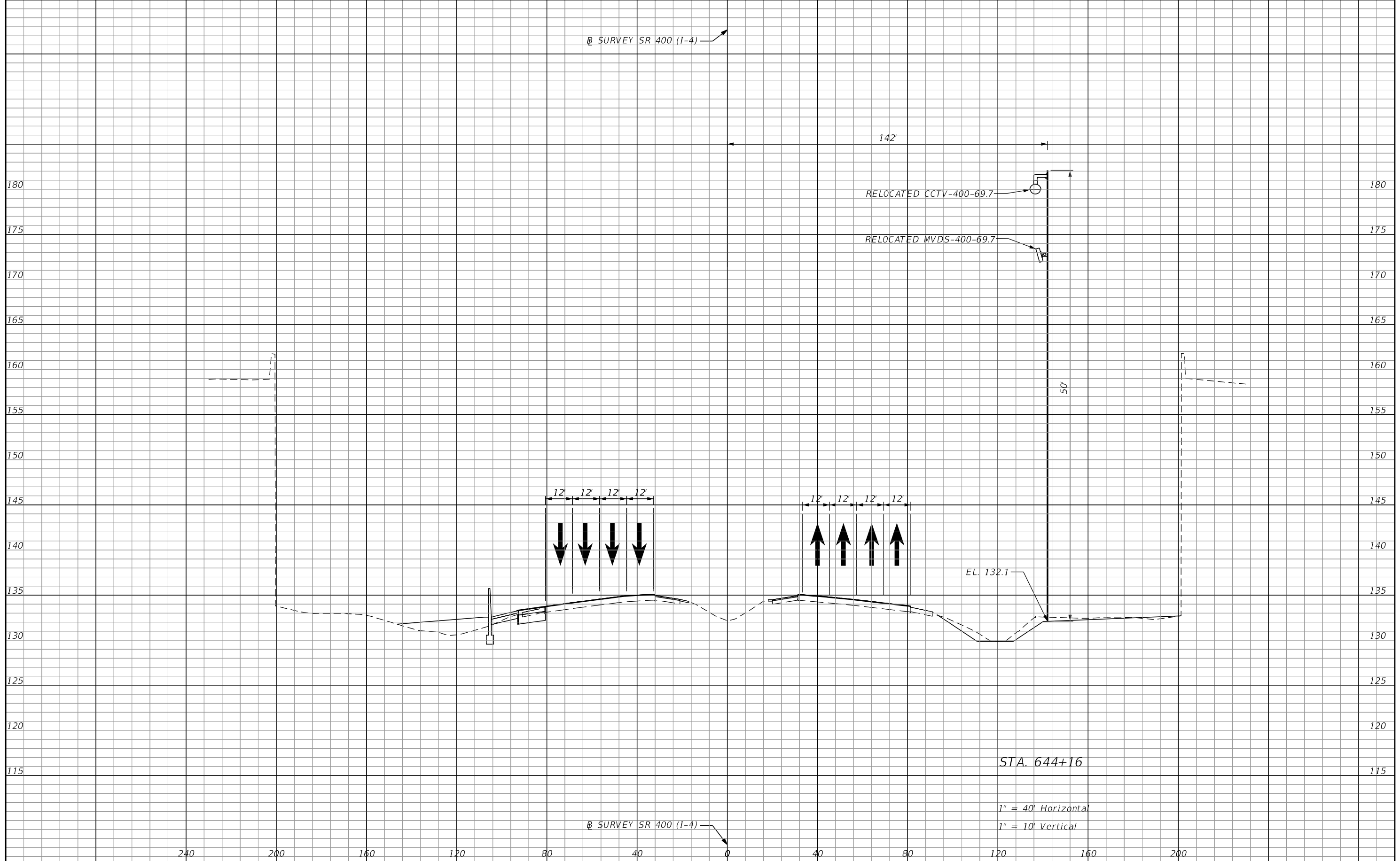
1" = 40' Horizontal  
1" = 10' Vertical

**ITS CROSS SECTION (1)**

SHEET NO.  
IT-52

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| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
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|           |             |      |             |

PATRICK B. NEVAH, P.E.  
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AECOM TECHNICAL SERVICES, INC.  
150 NORTH ORANGE AVENUE,  
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|  |        |                      |
|--|--------|----------------------|
| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |        |                      |
| ROAD NO.   | COUNTY | FINANCIAL PROJECT ID |
|  |        |                      |

**ITS CROSS SECTION (2)**

SHEET NO.  
IT-53