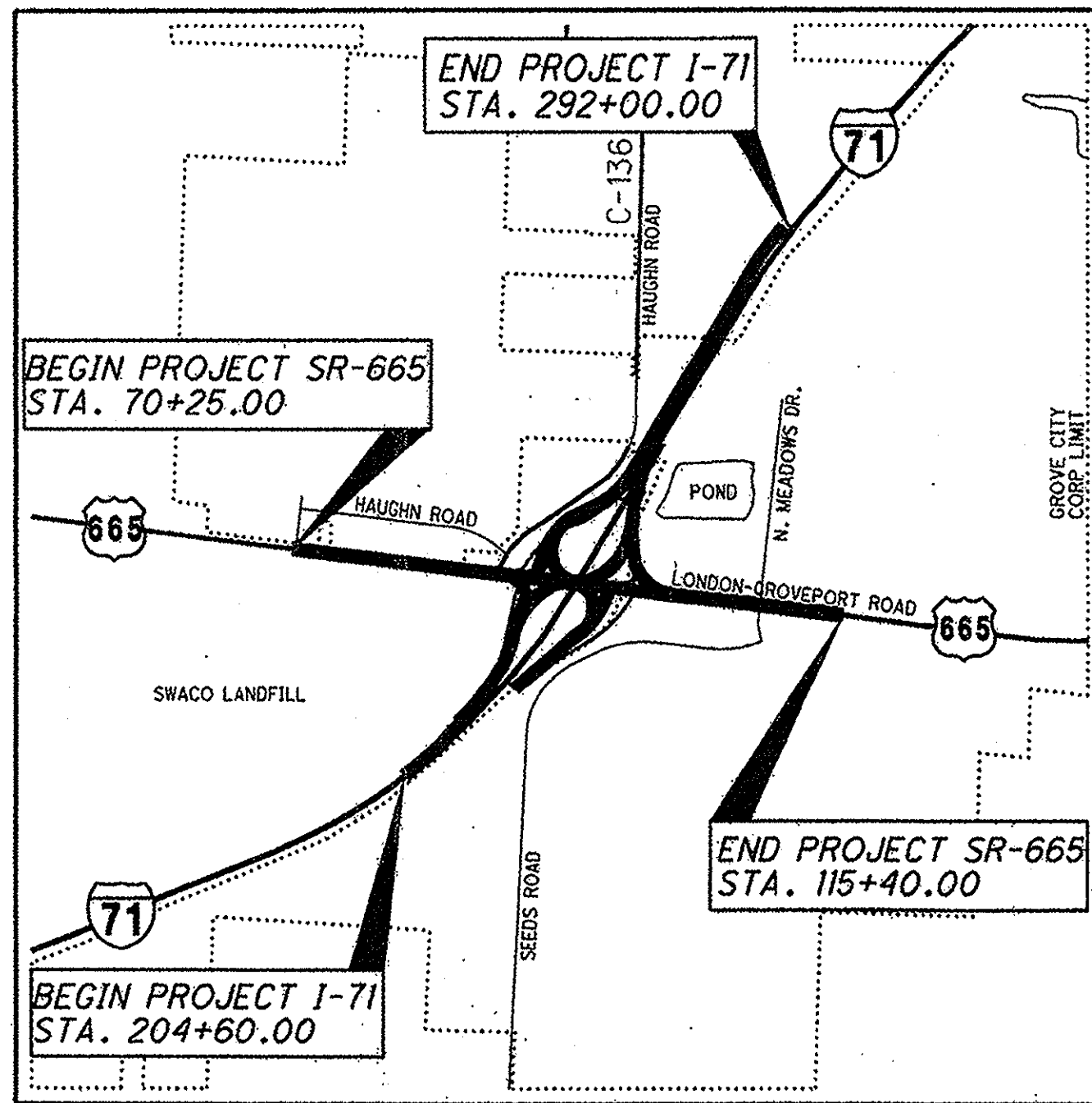


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**FRA-71-6.09**  
**I-71 / SR-665**  
**INTERCHANGE IMPROVEMENTS**  
**CITY OF GROVE CITY**  
**JACKSON TOWNSHIP**  
**FRANKLIN COUNTY**

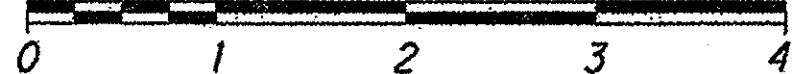
INDEX OF SHEETS  
SEE SHEET 2 FOR INDEX OF SHEETS



LOCATION MAP

LATITUDE: 39°50'25" LONGITUDE: 83°05'25"

SCALE IN MILES



|                         |       |
|-------------------------|-------|
| PORTION TO BE IMPROVED  | _____ |
| INTERSTATE HIGHWAY      | _____ |
| STATE & FEDERAL ROUTES  | _____ |
| COUNTY & TOWNSHIP ROADS | _____ |
| OTHER ROADS             | _____ |

DESIGN DESIGNATION

|                                  | SR-665 WEST OF HAUGHN RD. | SR-665 OVERPASS @ I-71 | SR-665 EAST OF INTERCHANGE | I-71 @ SR-665 OVERPASS |
|----------------------------------|---------------------------|------------------------|----------------------------|------------------------|
| CURRENT ADT (2010)               | 10,080                    | 19,070                 | 25,440                     | 46,340                 |
| DESIGN YEAR ADT (2030)           | 15,520                    | 30,610                 | 41,600                     | 58,890                 |
| DESIGN HOURLY VOLUME (2030)      | 1,400                     | 3,190                  | 3,740                      | 5,330                  |
| DIRECTIONAL DISTRIBUTION         | 61%                       | 67%                    | 55%                        | 50%                    |
| TRUCKS (24 HOUR B&C)             | 7%                        | 5%                     | 3.5%                       | 23%                    |
| DESIGN SPEED                     | 45 MPH                    | 45 MPH                 | 45 MPH                     | 70 MPH                 |
| LEGAL SPEED                      | 45 MPH                    | 45 MPH                 | 45 MPH                     | 65 MPH                 |
| DESIGN FUNCTIONAL CLASSIFICATION | URBAN MINOR ARTERIAL      | URBAN MINOR ARTERIAL   | URBAN MINOR ARTERIAL       | URBAN INTERSTATE       |
| NHS PROJECT                      | YES                       |                        |                            |                        |

DESIGN EXCEPTIONS

NONE REQUIRED

PLAN PREPARED BY:



Evans, Mechwart, Hambleton & Tilton, Inc.  
Engineers • Surveyors • Planners • Scientists  
5500 New Albany Road, Columbus, OH 43254  
Phone: 614.775.4500 Fax: 614.775.4600

M C M X X V I



PLANS CERTIFIED BY:  
*Brian Bink* 5-27-10  
NAME DATE  
DISTRICT SIX  
OHIO DEPARTMENT OF TRANSPORTATION

|  |  |
|--|--|
| ROADWAY ENGINEERS SEAL:<br>                            | BRIDGE ENGINEERS SEAL:<br>                               |
| SIGNED: <i>Ronald Bonnette</i><br>DATE: April 30, 2010 | SIGNED: <i>Scott D. Campbell</i><br>DATE: April 30, 2010 |

EARTH DISTURBED AREAS

|  |            |
|--|------------|
| PROJECT EARTH DISTURBED AREA:              | 57 ACRES   |
| ESTIMATED CONTRACTOR EARTH DISTURBED AREA: | 10.5 ACRES |
| NOTICE OF INTENT EARTH DISTURBED AREA:     | 67.5 ACRES |

STANDARD CONSTRUCTION DRAWINGS

|        |          |          |          |           |          |           |          | SUPPLEMENTAL SPECIFICATIONS       |   |
|--------|----------|----------|----------|-----------|----------|-----------|----------|-----------------------------------|---|
| BP-1.1 | 7/28/00  | F-3.2    | 4/16/10  | HL-10.13  | 10/16/09 | MT-101.90 | 1/16/09  | TC-83.10 1/19/07 800-2010 7/16/10 |   |
| BP-2.1 | 7/18/08  | F-3.3    | 7/28/00  | HL-10.31  | 4/17/09  | MT-102.10 | 7/17/09  | TC-83.20 1/19/07 802 4/16/10      |   |
| BP-2.2 | 7/18/08  | F-3.4    | 7/28/00  | HL-20.11  | 1/19/07  | MT-102.20 | 4/17/09  | TC-84.20 1/19/07 815 1/19/07      |   |
| BP-2.3 | 7/16/04  |          |          | HL-20.14  | 10/16/09 | MT-102.30 | 4/17/09  | TC-85.10 10/16/09 816 1/19/07     |   |
| BP-3.1 | 10/19/07 | GR-1.1   | 7/16/04  | HL-20.21  | 1/19/07  | MT-105.10 | 1/16/09  | TC-85.20 01/15/10 832 5/5/09      |   |
| BP-4.1 | 7/16/04  | GR-2.1   | 1/16/04  | HL-30.11  | 10/16/09 | MT-110.10 | 1/16/09  |                                   | 840 7/17/09   |
| BP-5.1 | 7/28/00  | GR-2.2   | 1/20/06  | HL-30.21  | 1/19/07  | MT-120.00 | 1/16/09  |                                   | 898 7/17/09   |
| BP-6.1 | 7/28/00  | GR-2.3   | 4/18/03  | HL-30.22  | 4/17/09  |           |          |                                   | 906 10/17/08  |
| BP-7.1 | 4/16/10  | GR-2.4   | 4/18/03  | HL-30.31  | 4/17/09  | TC-12.30  | 1/19/07  |                                   | 907 1/15/10   |
| BP-9.1 | 4/15/05  | GR-3.1   | 10/16/09 | HL-30.32  | 4/17/09  | TC-15.115 | 1/19/07  |                                   |   |
|        |          | GR-3.2   | 10/16/09 | HL-30.33  | 4/17/09  | TC-16.21  | 1/16/09  |                                   |   |
| CB-1.1 | 7/15/05  | GR-3.4   | 10/16/09 | HL-40.20  | 1/19/07  | TC-21.10  | 1/19/07  |                                   |   |
| CB-1.2 | 7/15/05  | GR-3.5   | 4/16/10  | HL-50.11  | 1/19/07  | TC-21.20  | 10/16/09 |                                   |   |
| CB-2.1 | 7/15/05  | GR-4.1   | 4/18/03  | HL-50.21  | 1/19/07  | TC-22.10  | 1/19/07  |                                   |   |
| CB-2.2 | 7/15/05  | GR-4.2   | 1/19/07  | HL-60.11  | 1/19/07  | TC-22.20  | 1/19/07  |                                   |   |
| CB-3.1 | 7/15/05  | GR-5.1   | 4/16/10  | HL-60.12  | 10/19/07 | TC-41.10  | 10/19/07 |                                   |   |
| CB-3.2 | 7/15/05  | GR-5.2   | 4/16/10  | HL-60.21  | 1/19/07  | TC-41.15  | 1/16/09  |                                   |   |
| CB-3.3 | 7/15/05  | GR-5.3   | 4/16/10  | HL-60.31  | 1/19/07  | TC-41.20  | 1/19/07  |                                   |   |
| CB-3.4 | 7/15/05  | GR-6.1   | 4/16/10  |           |          | TC-41.30  | 1/19/07  |                                   |   |
|        |          | GR-6.2   | 4/16/10  | MT-35.10  | 4/20/01  | TC-41.40  | 7/16/04  |                                   |   |
| HW-2.1 | 7/30/07  | RM-1.1   | 7/18/08  | MT-95.30  | 7/17/09  | TC-41.41  | 1/19/07  |                                   |   |
| HW-2.2 | 7/30/07  | RM-3.1   | 4/18/03  | MT-95.31  | 7/17/09  | TC-41.50  | 1/19/07  |                                   |   |
|        |          | RM-4.1   | 10/20/06 | MT-95.32  | 7/17/09  | TC-42.10  | 1/19/07  |                                   |   |
| MH-1.1 | 7/19/02  | RM-4.2   | 10/19/07 | MT-97.10  | 4/17/09  | TC-42.20  | 7/16/04  |                                   |   |
| MH-1.2 | 1/20/06  | RM-4.3   | 10/16/09 | MT-97.11  | 4/17/09  | TC-51.11  | 4/20/01  |                                   |   |
| MH-3.1 | 7/20/01  | RM-4.4   | 10/16/09 | MT-97.12  | 4/17/09  | TC-51.12  | 4/20/01  |                                   |   |
|        |          | RM-4.5   | 10/16/09 | MT-98.10  | 7/17/09  | TC-52.10  | 1/19/07  |                                   | 404 PERMIT-WATERWAY PERMITS 10/23/09                      |
| DM-1.1 | 4/21/06  | RM-4.6   | 4/16/10  | MT-98.11  | 7/17/09  | TC-52.20  | 1/19/07  |                                   |   |
| DM-1.2 | 10/21/05 | RM-5.2   | 4/18/03  | MT-98.20  | 7/17/09  | TC-61.10  | 1/19/07  |                                   | 401 WATER QUALITY CERTIFICATION-WATERWAY PERMITS 02/25/10 |
| DM-1.4 | 4/21/06  | RM-7.1   | 7/15/05  | MT-98.21  | 7/17/09  | TC-61.30  | 4/16/10  |                                   |   |
| DM-2.1 | 7/20/01  |          |          | MT-98.22  | 7/17/09  | TC-65.10  | 1/21/05  |                                   |   |
| DM-4.1 | 7/19/02  | AS-1-81  | 7/19/02  | MT-98.28  | 7/17/09  | TC-65.11  | 1/21/05  |                                   | FLOOD PLAIN PERMIT  |
| DM-4.2 | 1/21/05  | EXJ-4-87 | 7/19/02  | MT-98.29  | 7/17/09  | TC-71.10  | 1/15/10  |                                   | 1/29/10   |
|        |          | GSD-1-96 | 7/19/02  | MT-99.20  | 1/16/09  | TC-72.20  | 10/16/09 |                                   |   |
| F-1.1  | 4/16/10  | PCB-91   | 7/19/02  | MT-99.50  | 1/16/09  | TC-73.10  | 1/19/07  |                                   |   |
| F-2.1  | 7/28/00  | SBR-1-99 | 7/19/02  | MT-101.60 | 4/17/09  | TC-81.21  | 5/21/10  |                                   |   |
| F-3.1  | 4/16/10  | VPF-1-90 | 7/19/02  | MT-101.70 | 1/16/09  | TC-82.10  | 10/16/09 |                                   |   |

SPECIAL PROVISIONS

PROJECT DESCRIPTION  
THIS PROJECT CONSISTS OF THE REPLACEMENT OF THE NARROW DIAMOND INTERSECTION OF INTERSTATE 71 & STATE ROUTE 665 (LONDON-GROVEPORT ROAD) WITH A SINGLE-POINT URBAN INTERCHANGE. THIS WORK INCLUDES A BRIDGE STRUCTURE, ACCELERATION LANES, DECELERATION LANES, RAMPS, DRAINAGE, LIGHTING AND NECESSARY TRAFFIC CONTROL DEVICES.

LIMITED ACCESS  
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2010 SPECIFICATIONS  
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

TRAFFIC REROUTED FOR BRIEF TIME PERIODS  
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF INTERSTATE-71 EXCEPT AS NOTED ON SHEETS 66, 68, 69-73, AND 87 OF THE MOT PLAN, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

PRIMA FACIE SPEED LIMIT  
UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED *Dennis S. Stang*  
DATE 5-3-10 MAYOR, CITY OF GROVE CITY

APPROVED *Phil Hwang*  
DATE 5/3/10 CITY ADMINISTRATOR, CITY OF GROVE CITY

APPROVED *Michael J. Washburn*  
DATE 5/7/10 DIRECTOR OF PUBLIC SAFETY, CITY OF GROVE CITY

APPROVED *Sharon K. Reinhold*  
DATE 5/16/10 DIRECTOR OF PUBLIC SERVICE, CITY OF GROVE CITY

APPROVED *Thomas J. Washburn*  
DATE 5-27-10 DISTRICT DEPUTY DIRECTOR

APPROVED *John M. Mahoney*  
DATE 7-1-10 DIRECTOR, DEPARTMENT OF TRANSPORTATION

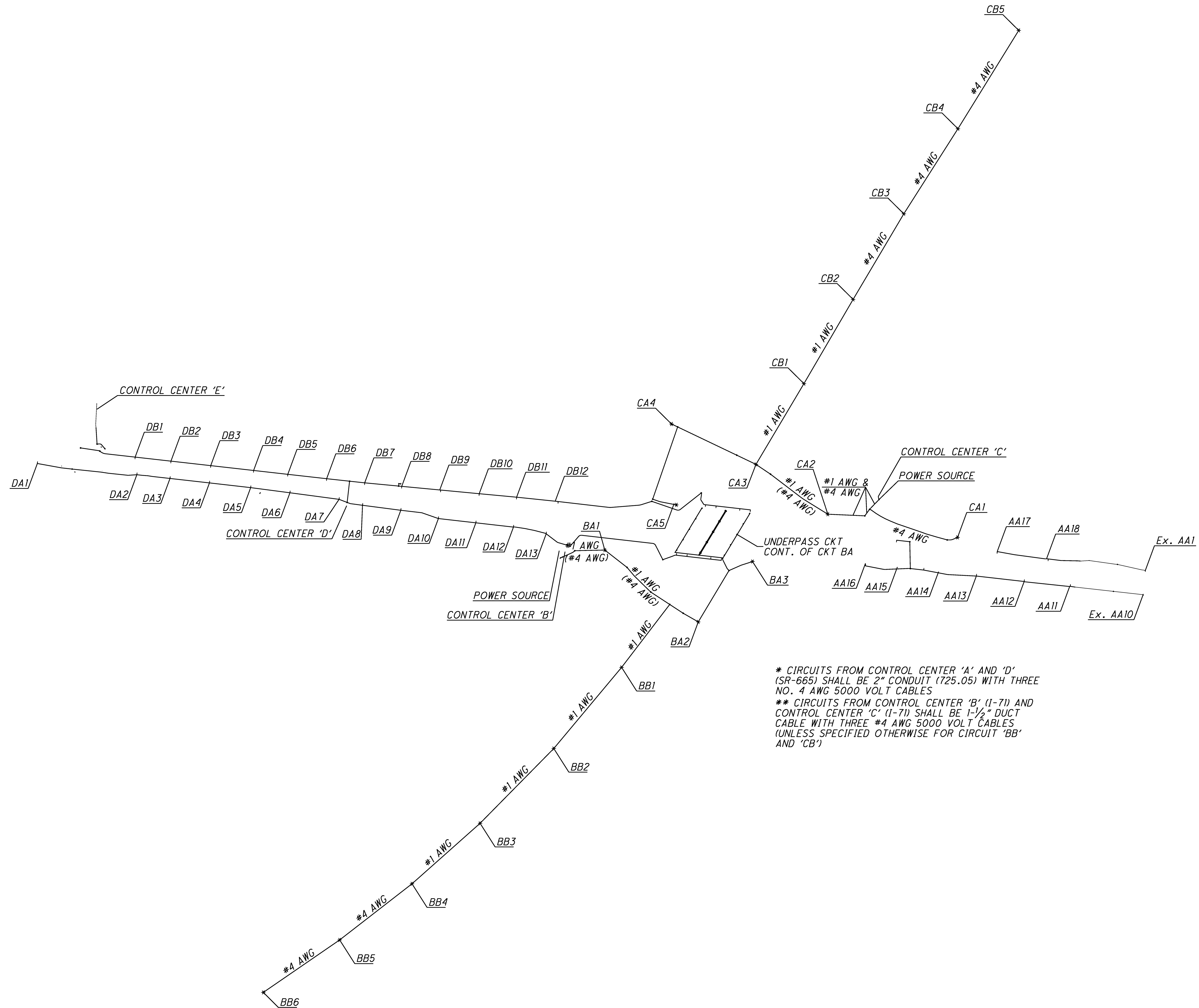
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DIST 06  
PID 79331  
10/07/2010

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FEDERAL PROJECT NO. E060(351)  
PID NO. 79331  
CONSTRUCTION PROJECT NO. NONE  
RAILROAD INVOLVEMENT NONE  
FRA-71-6.09  
1  
726

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\* CIRCUITS FROM CONTROL CENTER 'A' AND 'D' (SR-665) SHALL BE 2" CONDUIT (725.05) WITH THREE NO. 4 AWG 5000 VOLT CABLES  
 \*\* CIRCUITS FROM CONTROL CENTER 'B' (I-71) AND CONTROL CENTER 'C' (I-71) SHALL BE 1-1/2" DUCT CABLE WITH THREE #4 AWG 5000 VOLT CABLES (UNLESS SPECIFIED OTHERWISE FOR CIRCUIT 'BB' AND 'CB')

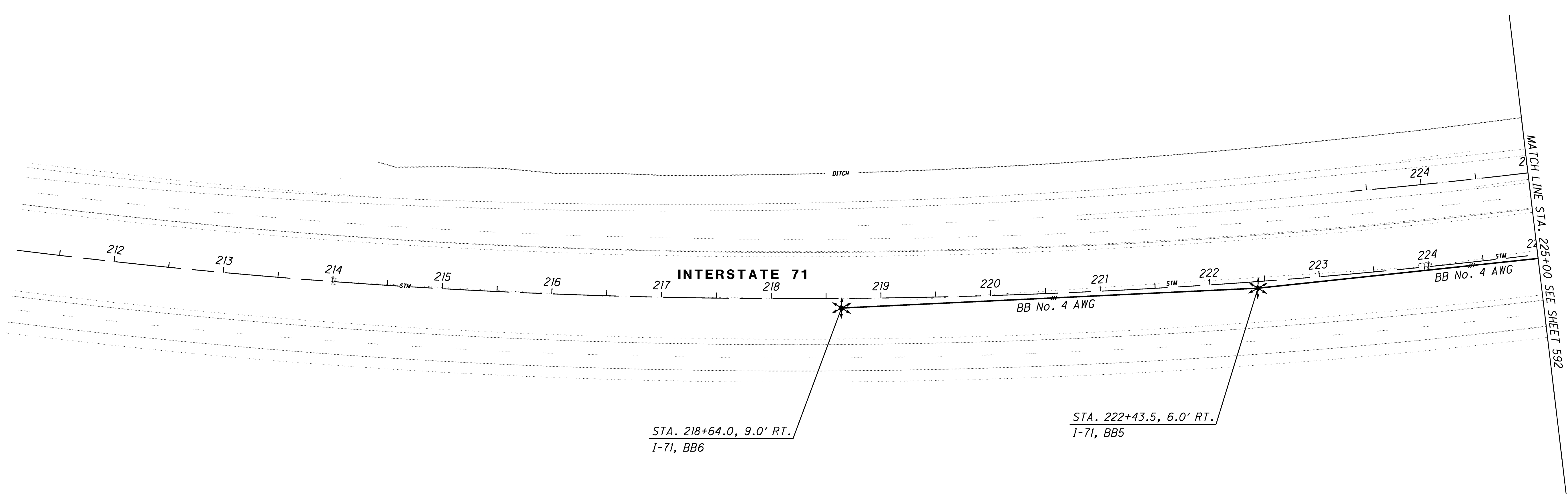
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**LIGHTING PLAN SCHEMATIC**

**FRA - 71 - 6.09**

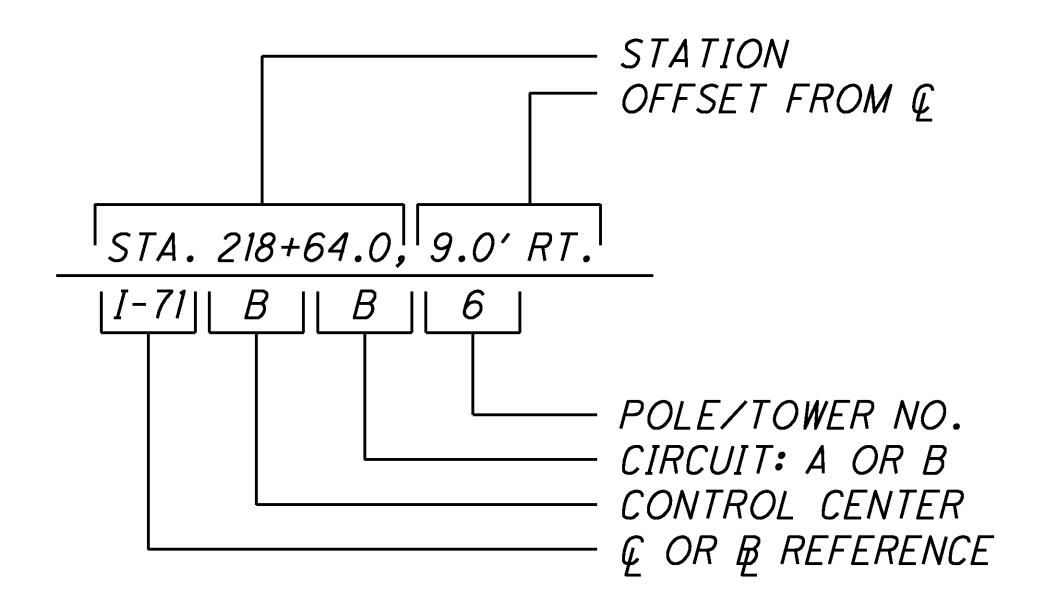
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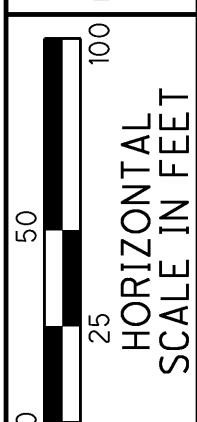
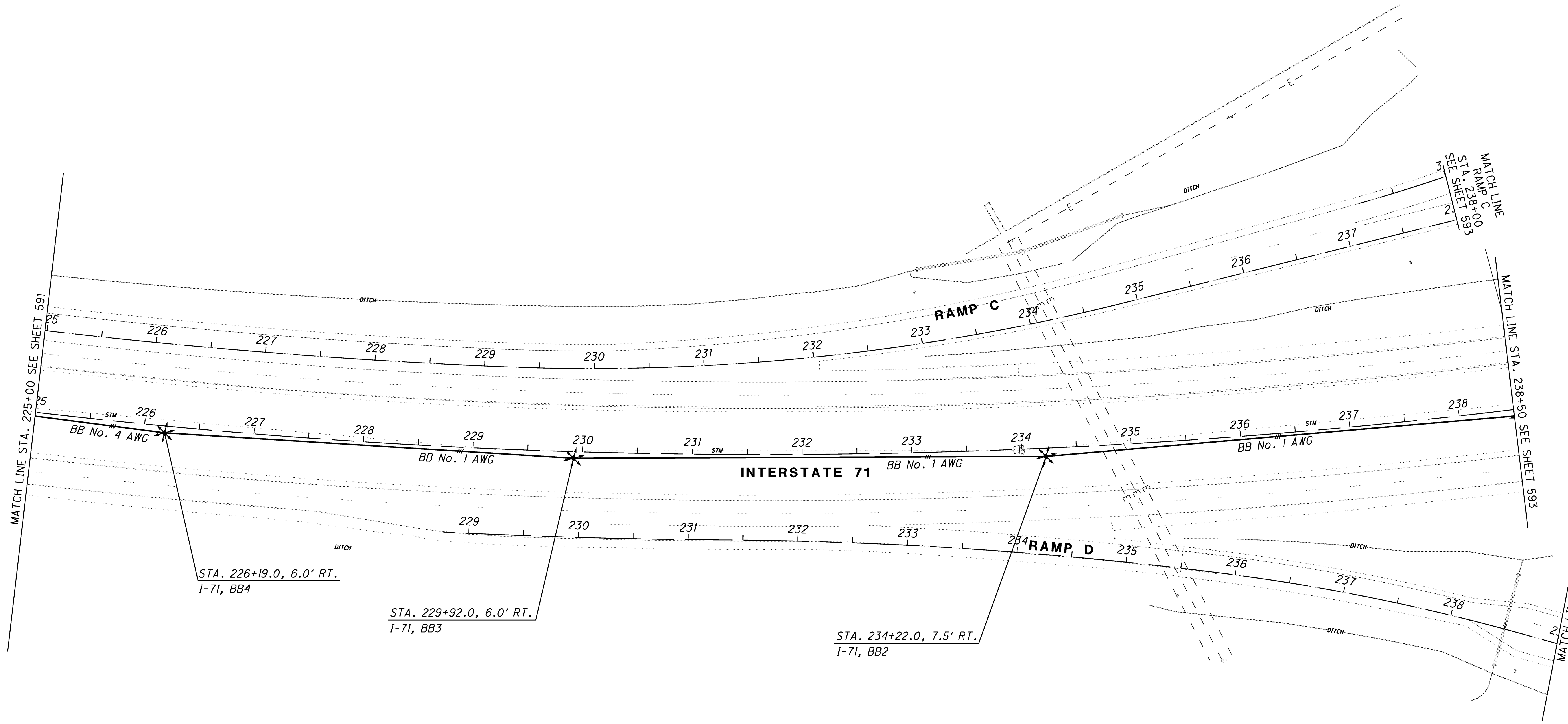


**LEGEND**

- ★ PROPOSED 6-400 WATT HPS SYMMETRIC HIGH MAST LUMINAIRES ON TOWER PER HL-10.31 ON FOUNDATION PER HL-20.21. SEE SHEET 597 FOR TOWER DETAILS.
- ! PROPOSED 400 WATT, PULSE START METAL HALIDE, TYPE III LUMINAIRE, 28' MOUNTING HEIGHT ON TRANSFORMER BASE. MOUNTED ON CONCRETE FOUNDATION PER HL-20.11.
- (PROPOSED 175 WATT, PULSE START METAL HALIDE, TYPE III LUMINAIRE, 28' MOUNTING HEIGHT ON PILASTER, WHERE NOTED ON PAGE 593)
- ▼ PROPOSED 150 WATT HPS 480 VOLT UNDERPASS LIGHT
- ▲ PROPOSED LIGHTING CONTROLLER
- PROPOSED PULL BOX
- (W/# OF CONDUCTORS AND ASSOCIATED CIRCUIT) PROPOSED CIRCUIT
- EXISTING CIRCUIT OR CONDUIT



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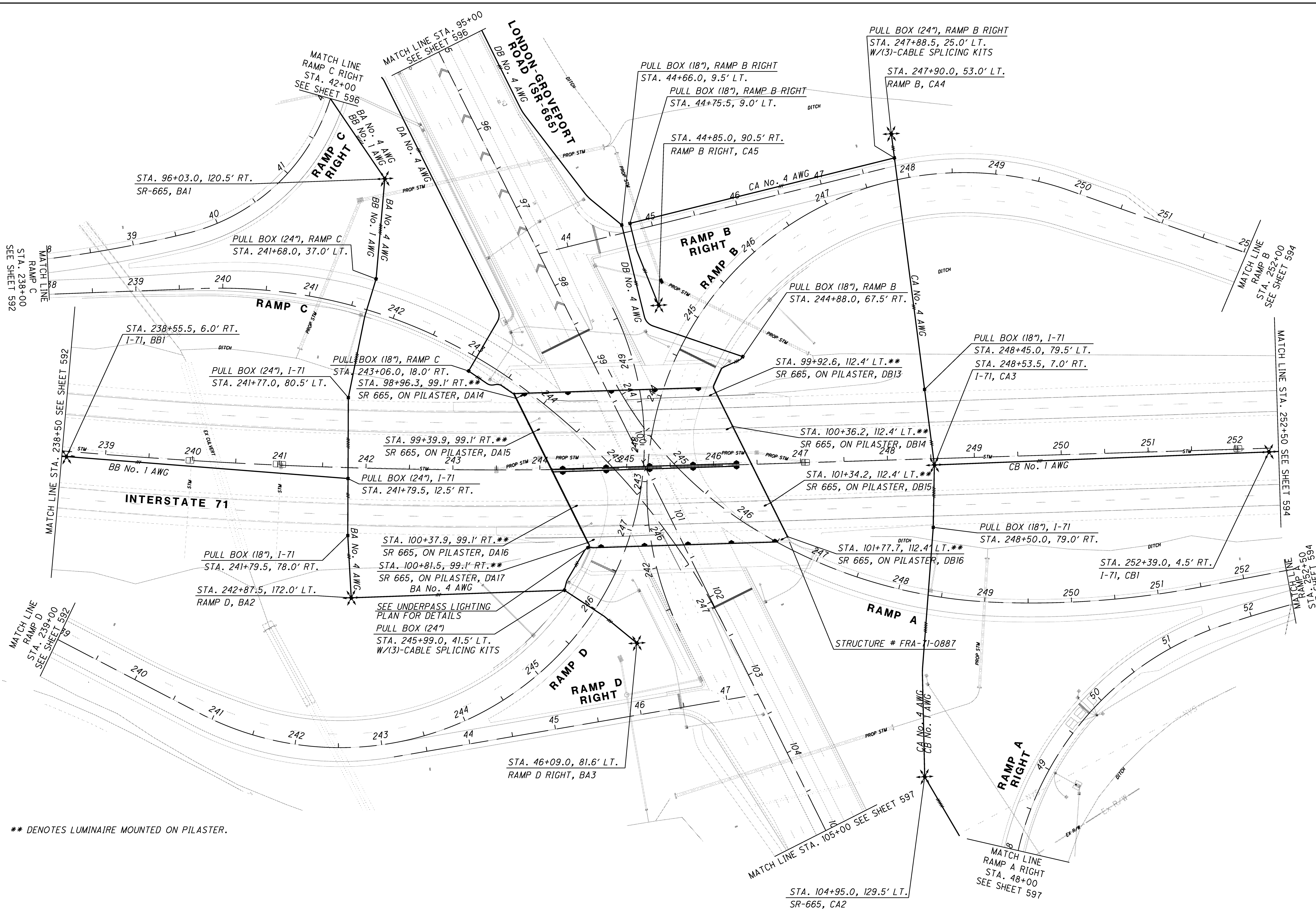


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|------------|-----|
| CALCULATED | NBC |
| CHECKED    | JDS |

**LIGHTING PLAN - INTERSTATE 71**  
**STA. 225+00 TO STA. 238+50**

**FRA-71-6.09**

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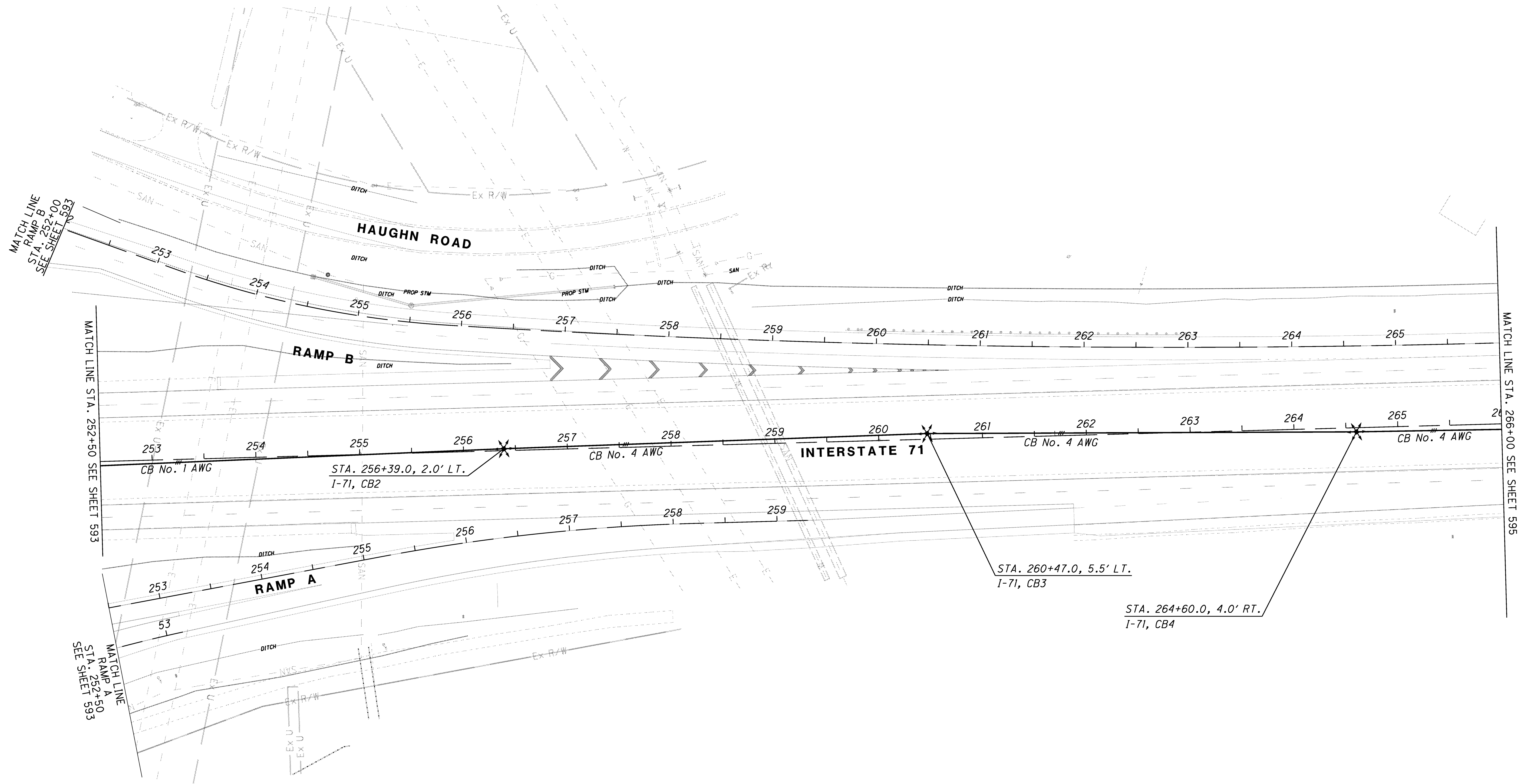
\*\* DENOTES LUMINAIRE MOUNTED ON PILASTER.

CALCULATED NBC  
CHECKED JDS

0 50 100  
HORIZONTAL SCALE IN FEET

**LIGHTING PLAN - INTERSECTION 71**  
**STA. 238+50 TO STA. 252+50**

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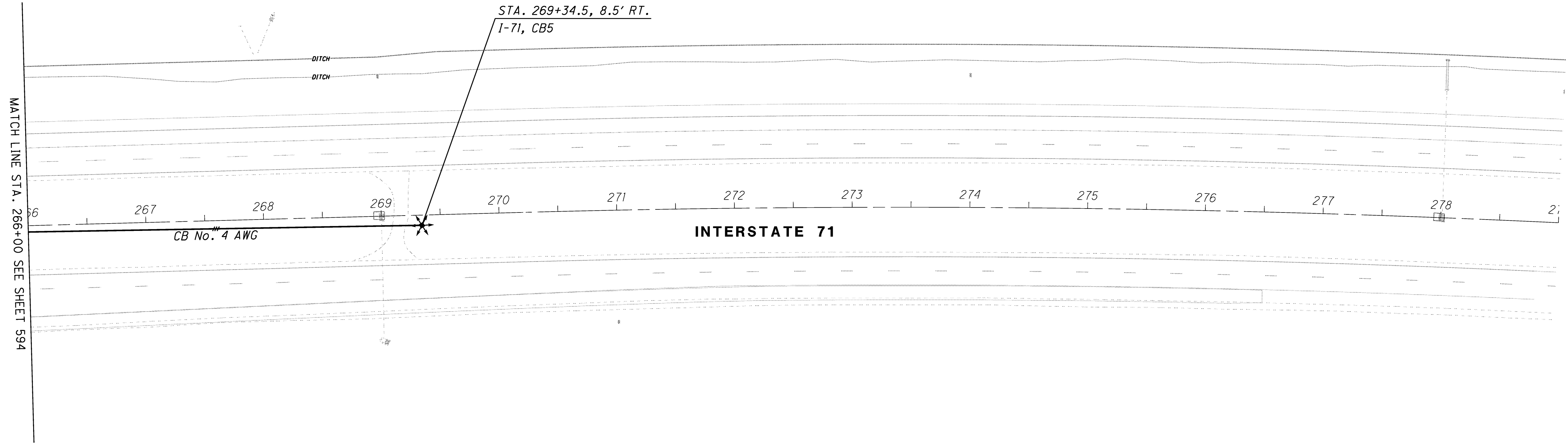


CALCULATED NBC CHECKED JDS

0 50 100  
HORIZONTAL SCALE IN FEET

**LIGHTING PLAN - INTERSTATE 71**  
**STA. 252+50 TO STA. 266+00**

**FRA-71-6.09**



|            |     |
|------------|-----|
| CALCULATED | NBC |
| CHECKED    | JDS |

0 50 100  
HORIZONTAL  
SCALE IN FEET

**LIGHTING PLAN - INTERSTATE 71**  
**STA. 266+00 TO STA. 279+00**

**FRA-71-6.09**

595  
726





HORIZONTAL SCALE IN FEET

CALCULATED NBC CHECKED JDS

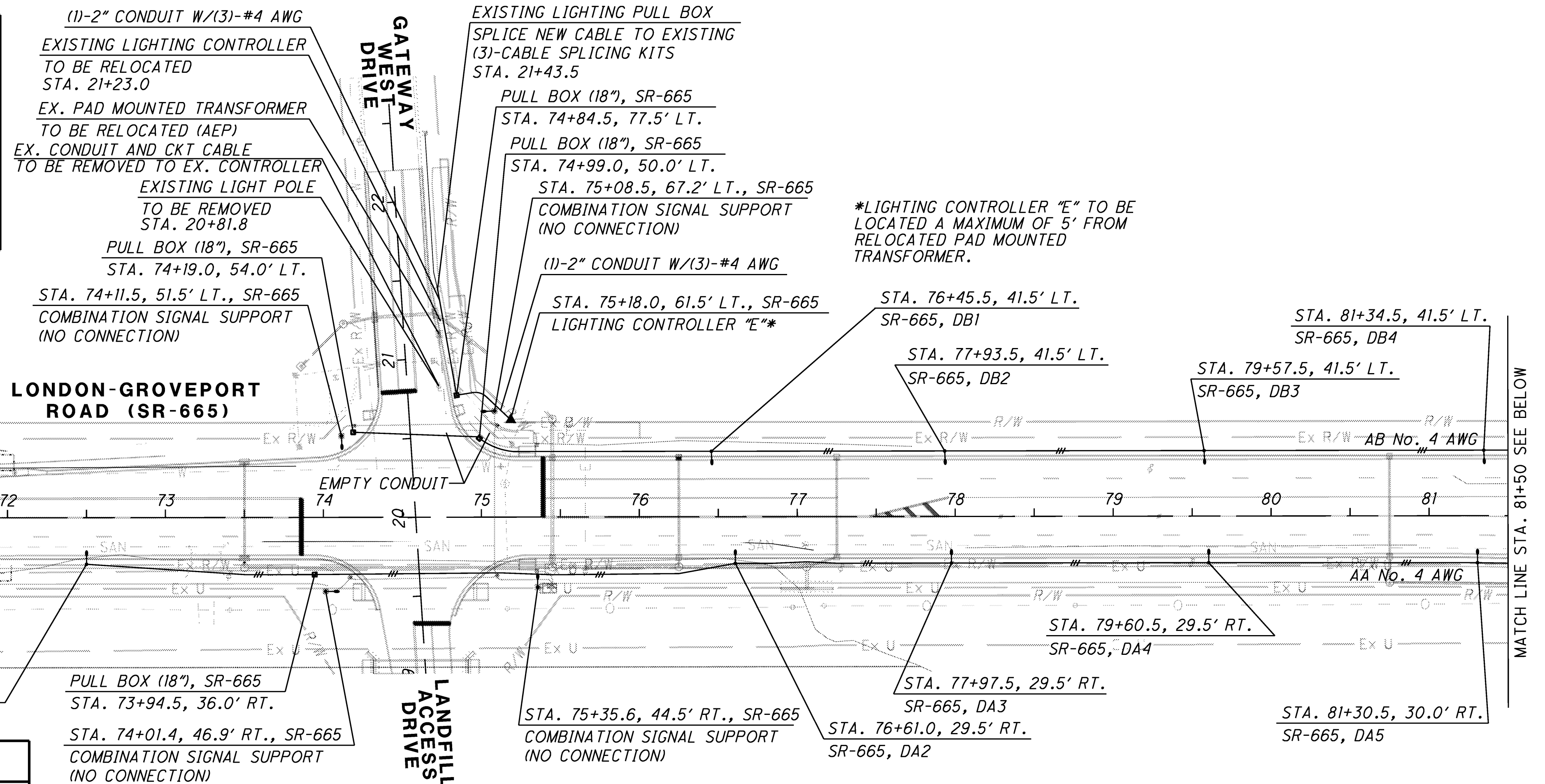
LIGHTING PLAN-LONDON-GROVEPORT RD  
STA 68+50 TO STA. 95+00

FRA-71-6.09

596  
726

### CONTROL CENTER "D" SCHEDULE

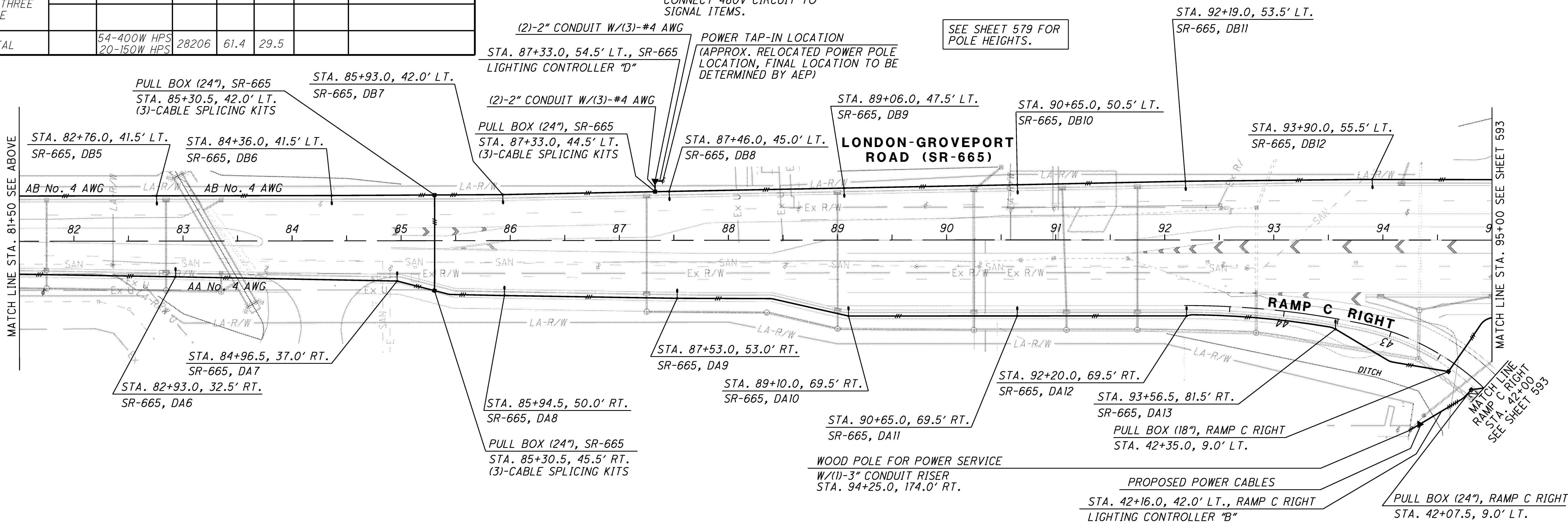
| CONTROL SITE                   | CIRCUIT | TOTAL LUMINAIRES        | TOTAL WATTS | AMPS | KVA  | FUSE SIZE | MAINTAINING AGENCY |
|--------------------------------|---------|-------------------------|-------------|------|------|-----------|--------------------|
| PROPOSED 480 VOLT CONTROL SITE | A       | 13-400W MH<br>4-175W MH | 6768        | 14.8 | 7.1  | 30        | GROVE CITY         |
|                                | B       | 12-400W MH<br>4-175W MH | 6312        | 13.8 | 6.6  | 30        | GROVE CITY         |
| TOTAL                          |         | 25-400W MH<br>8-175W MH | 13080       | 28.6 | 13.7 |           |                    |



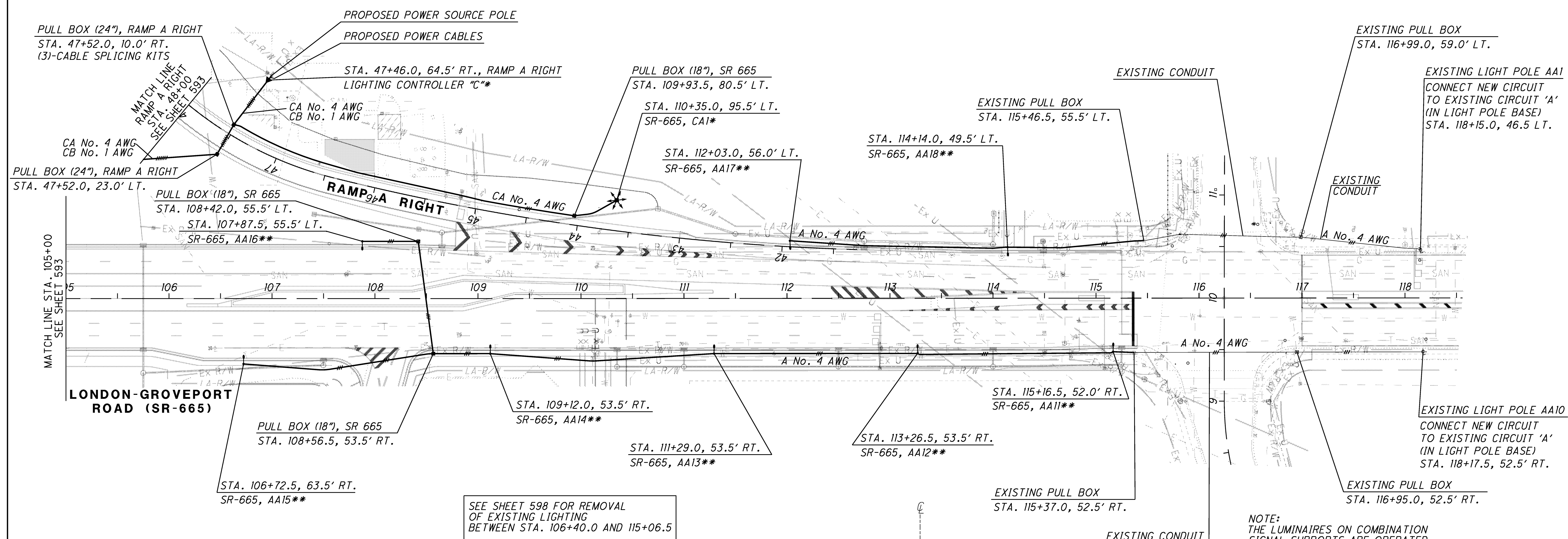
NOTES:  
 1. THE LUMINAIRES ON COMBINATION SIGNAL SUPPORTS ARE OPERATED AT 120V ON A SEPARATE CIRCUIT. DO NOT CONNECT 480V CIRCUIT TO SIGNAL ITEMS.  
 2. RELOCATED POWER LINES SHALL PROVIDE FOR NESC CLEARANCE REQUIREMENTS FOR PROPOSED LIGHT POLES.

### CONTROL CENTER "B" SCHEDULE

| CONTROL SITE                                   | CIRCUIT | TOTAL LUMINAIRES           | TOTAL WATTS | AMPS | KVA  | FUSE SIZE | MAINTAINING AGENCY |
|--|---------|----------------------------|-------------|------|------|-----------|--------------------|
| PROPOSED 240/480 VOLT SINGLE PHASE, THREE WIRE | A       | 18-400W HPS<br>20-150W HPS | 11936       | 26.0 | 12.5 | 40        | ODOT               |
|  | B       | 36-400W HPS                | 16270       | 35.4 | 17.0 | 50        | ODOT               |
| TOTAL  |         | 54-400W HPS<br>20-150W HPS | 28206       | 61.4 | 29.5 |           |                    |



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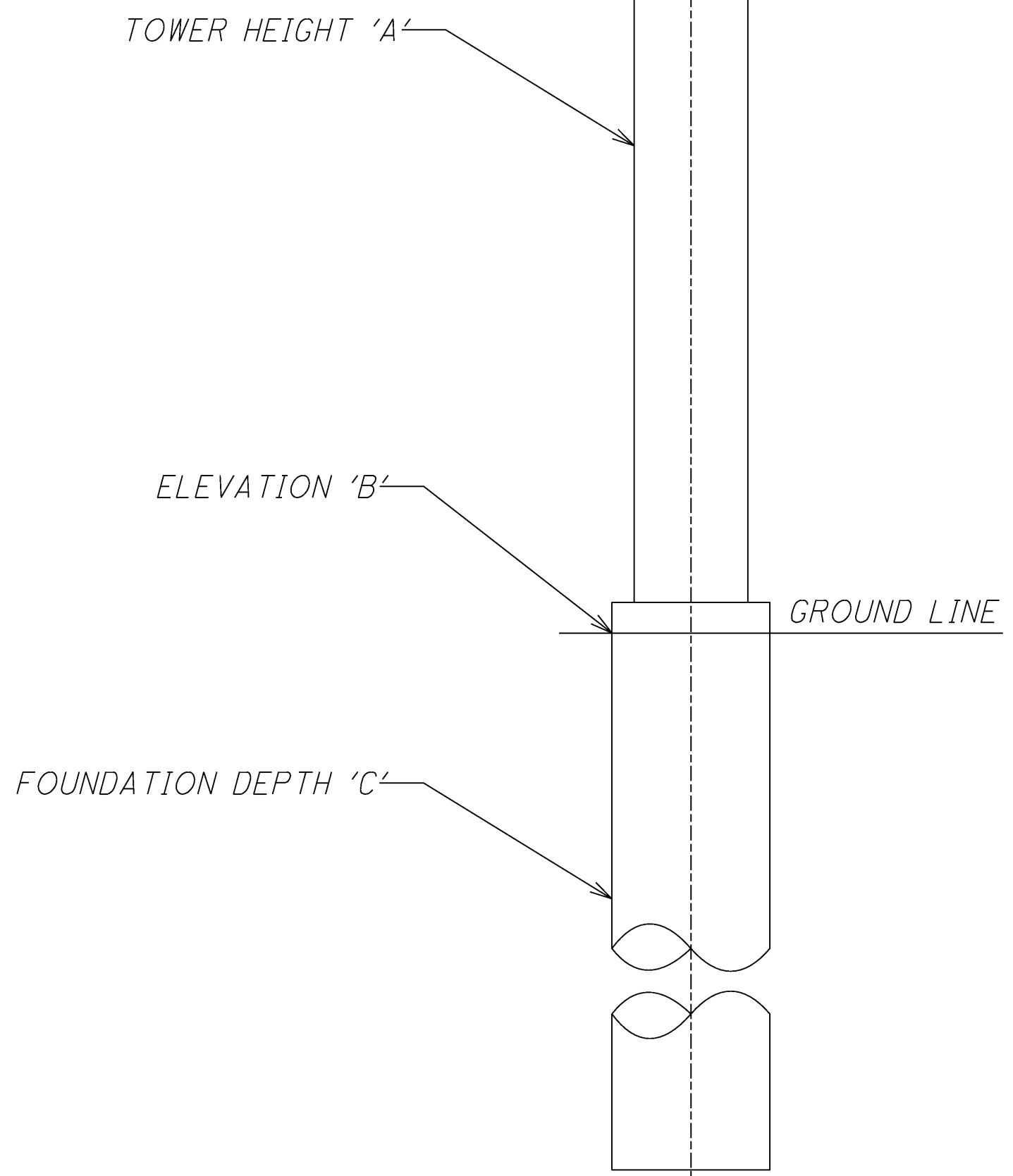


\* DENOTES ODOT OWNERSHIP
   
 \*\* DENOTES CITY OF GROVE CITY OWNERSHIP

SEE SHEET 598 FOR REMOVAL
   
 OF EXISTING LIGHTING
   
 BETWEEN STA. 106+40.0 AND 115+06.5

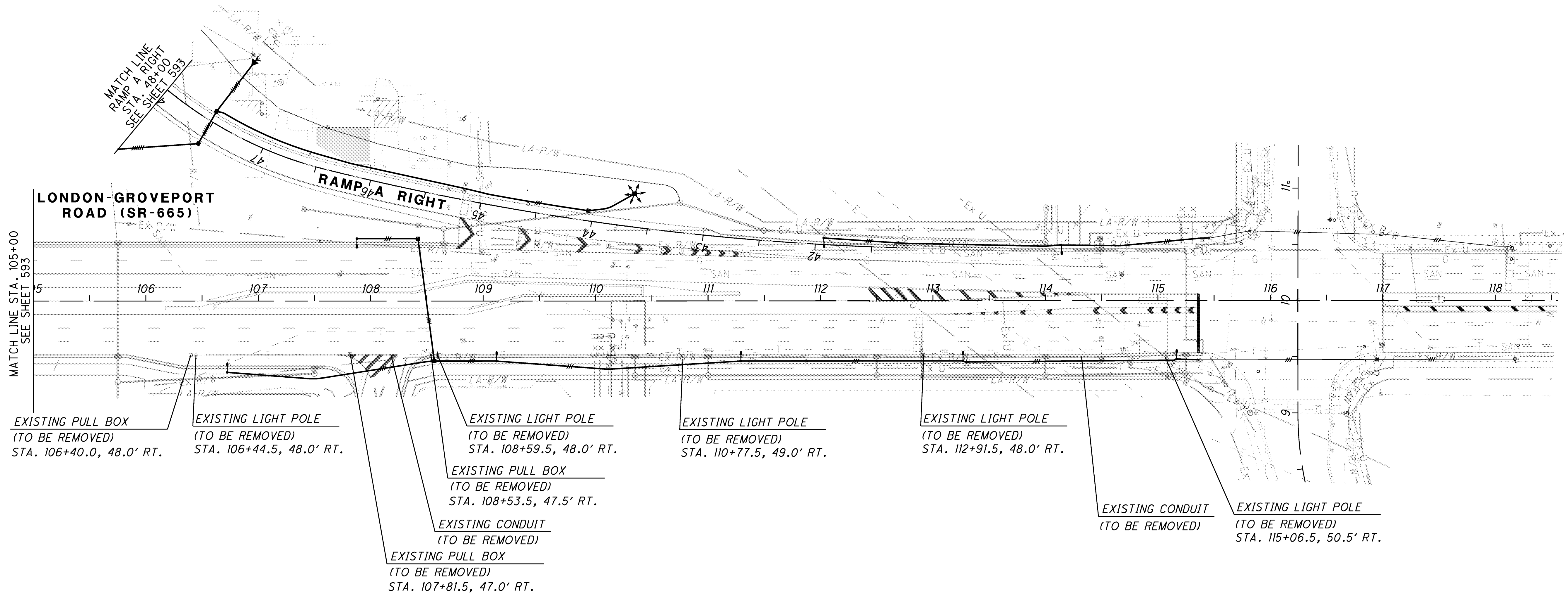
| EXISTING CONTROL CENTER "A" SCHEDULE       |         |                  |             |      |      |           |                    |
|--|---------|------------------|-------------|------|------|-----------|--------------------|
| CONTROL SITE                               | CIRCUIT | TOTAL LUMINAIRES | TOTAL WATTS | AMPS | KVA  | FUSE SIZE | MAINTAINING AGENCY |
| EXISTING 480 VOLT SINGLE PHASE, THREE WIRE | A       | 10 EX. 8 PROP.   | 8208        | 18.0 | 8.6  | 30 (EX.)  | GROVE CITY         |
|  | B       | 11 EX.           | 5060        | 11.0 | 5.3  | 30 (EX.)  | GROVE CITY         |
|  | C       | 11 EX.           | 5060        | 11.0 | 5.3  | 30 (EX.)  | GROVE CITY         |
| TOTAL                                      |         | 40               | 18328       | 40   | 19.2 |           |                    |

| CONTROL CENTER "C" SCHEDULE                    |         |                  |             |      |      |           |                    |
|--|---------|------------------|-------------|------|------|-----------|--------------------|
| CONTROL SITE                                   | CIRCUIT | TOTAL LUMINAIRES | TOTAL WATTS | AMPS | KVA  | FUSE SIZE | MAINTAINING AGENCY |
| PROPOSED 240/480 VOLT SINGLE PHASE, THREE WIRE | A       | 30-400W HPS      | 13560       | 29.5 | 14.2 | 40        | ODOT               |
|  | B       | 30-400W HPS      | 13560       | 29.5 | 14.2 | 40        | ODOT               |
| TOTAL  |         | 60-400W HPS      | 27120       | 59.0 | 28.4 |           |                    |



| LIGHT TOWER ELEVATION DETAILS |            |            |           |           |                     |
|-------------------------------|------------|------------|-----------|-----------|---------------------|
| TOWER/STATIONING              | SHEET REF. | HEIGHT 'A' | ELEV. 'B' | DEPTH 'C' | ROADWAY ELEV. RANGE |
| 218+64.0                      | 591        | 100'       | 848.0'    | 25'       | 847.7-852.2         |
| 222+43.5                      | 591        | 100'       | 846.0'    | 25'       | 845.4-850.4         |
| 226+19.0                      | 592        | 100'       | 842.9'    | 25'       | 843.2-847.6         |
| 229+92.0                      | 592        | 100'       | 840.6'    | 25'       | 839.9-845.5         |
| 234+22.0                      | 592        | 100'       | 839.1'    | 25'       | 839.3-842.9         |
| 238+55.5                      | 593        | 100'       | 835.3'    | 25'       | 839.8-853.9         |
| 96+03.0                       | 593        | 100'       | 846.8'    | 25'       | 845.3-862.7         |
| 44+85.0                       | 593        | 100'       | 858.8'    | 25'       | 839.0-865.4         |
| 247+90.0                      | 593        | 100'       | 849.4'    | 25'       | 848.1-860.9         |
| 248+53.5                      | 593        | 100'       | 838.3'    | 25'       | 851.7-864.6         |
| 104+95.0                      | 593        | 100'       | 841.8'    | 25'       | 840.5-863.2         |
| 46+09.0                       | 593        | 100'       | 860.3'    | 25'       | 839.8-864.7         |
| 242+87.5                      | 593        | 100'       | 836.8'    | 25'       | 838.1-861.7         |
| 252+39.0                      | 593        | 100'       | 839.6'    | 25'       | 843.2-853.2         |
| 256+39.0                      | 594        | 100'       | 840.8'    | 25'       | 843.3-846.0         |
| 260+47.0                      | 594        | 100'       | 842.3'    | 25'       | 842.5-846.3         |
| 264+60.0                      | 594        | 100'       | 840.9'    | 25'       | 843.2-846.3         |
| 269+34.5                      | 595        | 100'       | 839.6'    | 25'       | 841.0-843.7         |
| 110+35.0                      | 597        | 100'       | 833.9'    | 25'       | 833.4-842.4         |

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CALCULATED NBC  
CHECKED JDS

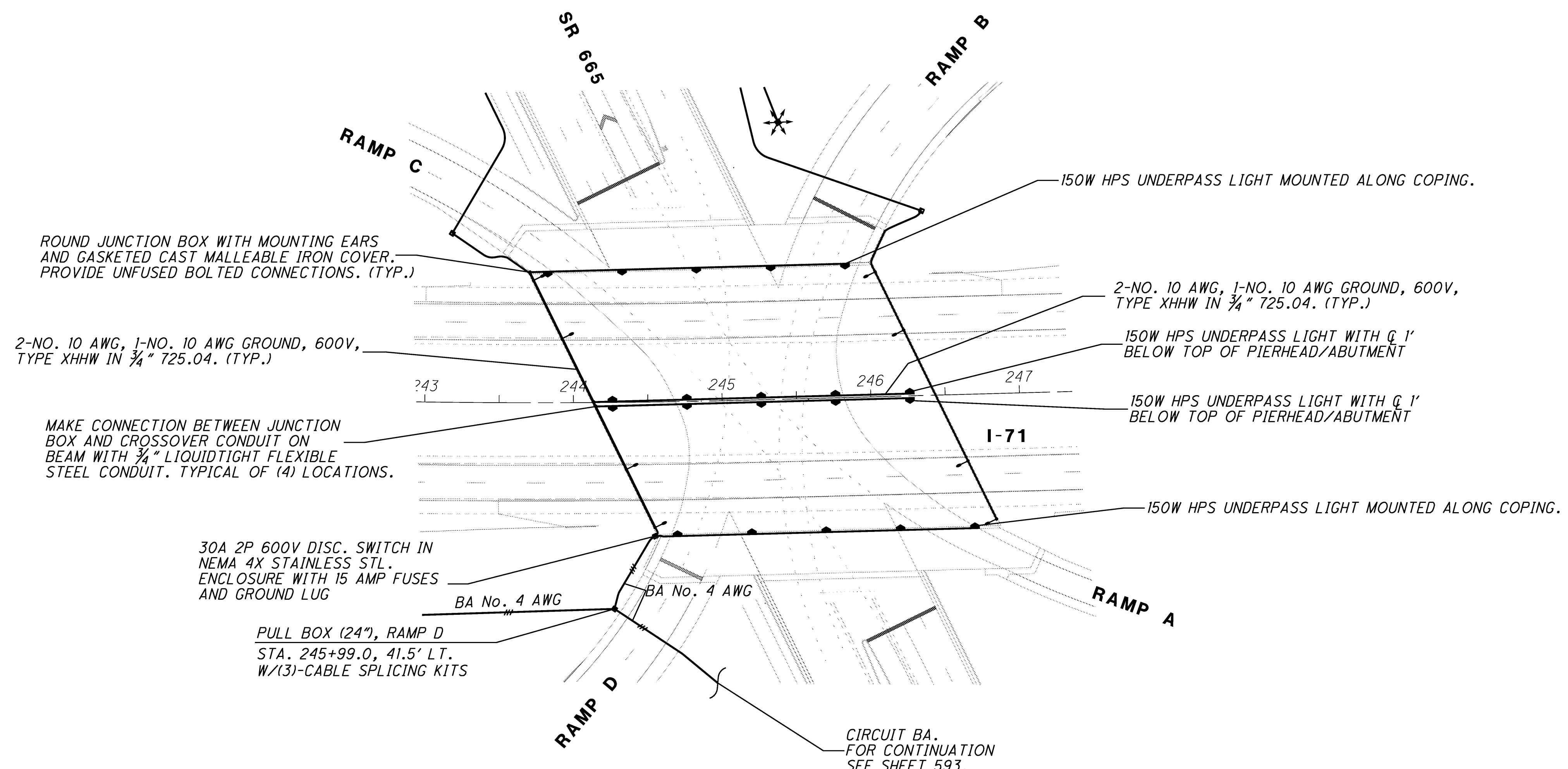
0 50 100  
HORIZONTAL SCALE IN FEET

**EXISTING LIGHTING REMOVAL PLAN-S.R. 665**  
**STA. 105+00 TO STA. 116+00**

**FRA-71-6.09**



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CALCULATED  
NBC  
CHECKED  
JDS

0 50 100  
HORIZONTAL  
SCALE IN FEET

**UNDERPASS LIGHTING PLAN**  
**BRIDGE FRA-71-0887**

**FRA-71-6.09**