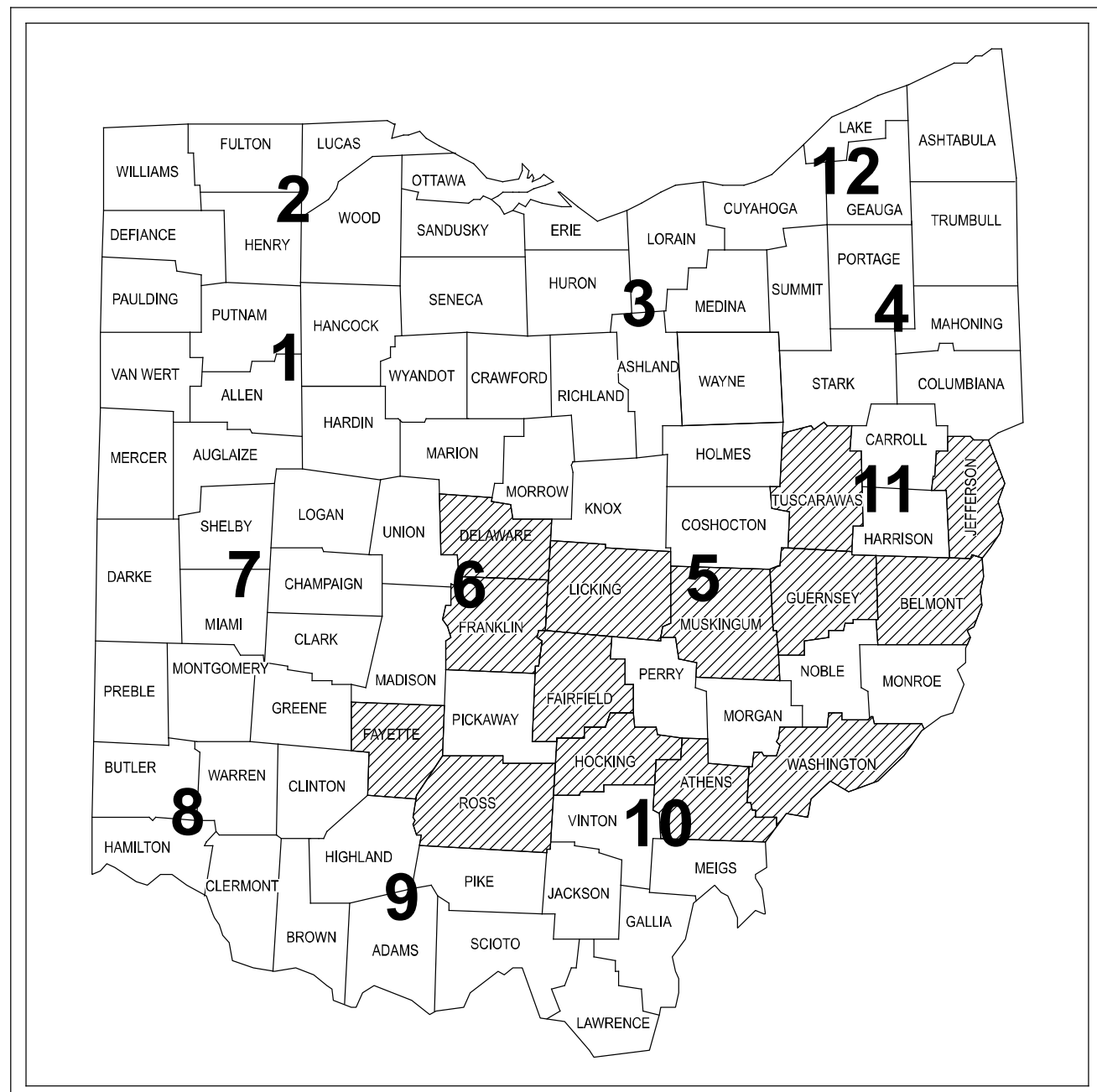


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## Lighting Optimization SE Ohio

FAIRFIELD, FAYETTE, LICKING, GUERNSEY, MUSKINGHAM  
FRANKLIN, ROSS, HOCKING, ATHENS, WASHINGTON  
BELMONT, JEFFERSON, AND TUSCARWARWAS COUNTIES



**LOCATION MAP**

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**FEDERAL PROJECT NUMBER**

NON-FEDERAL

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

LIGHTING OPTIMIZATION AND UPGRADES FOR HIGH MAST AND LOW MAST LIGHTING UNITS IN DISTRICTS 5, 6, 9, 10, & 11. PROPOSED UPGRADES INCLUDE REPLACEMENT OF HIGH PRESSURE SODIUM FIXTURES WITH LED FIXTURES AND, IN SOME INSTANCES, REDUCING THE NUMBER OF FIXTURES REQUIRED ON HIGH MAST UNITS.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: N/A (MAINTENANCE)  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE)  
NOTICE OF INTENT EARTH DISTURBED AREA: NOI NOT REQUIRED

**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.

**2019 SPECIFICATIONS**

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**DESIGN DESIGNATION**

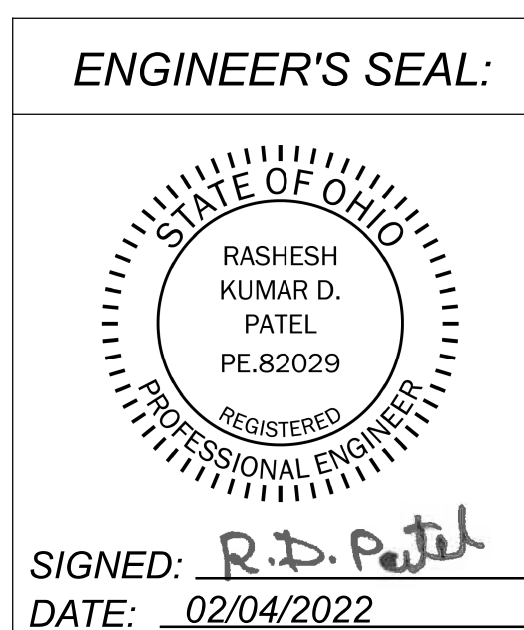
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**DESIGN EXCEPTIONS**

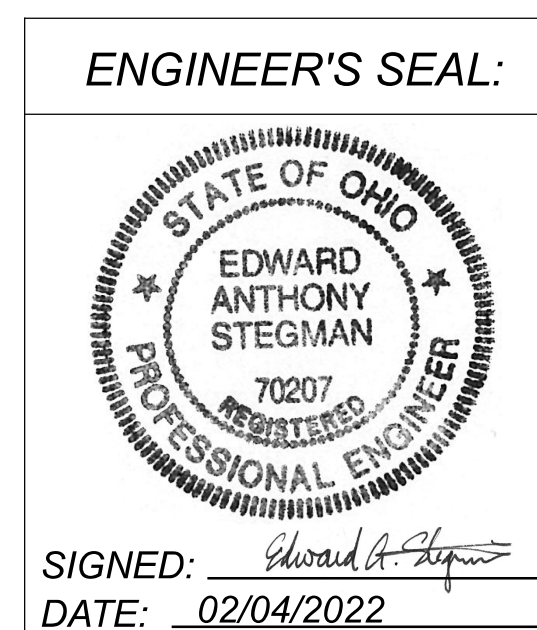
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**ADA DESIGN WAIVERS**

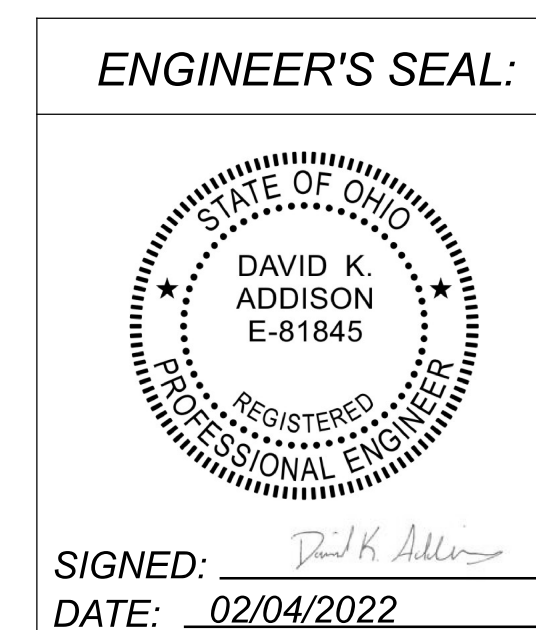
NONE REQUIRED



SIGNATURE AND SEAL APPLY TO SHEETS WITH SINGH & ASSOCIATES LOGO IN BORDER



SIGNATURE AND SEAL APPLY TO SHEETS WITH KZF DESIGN LOGO IN BORDER



SIGNATURE AND SEAL APPLY TO SHEETS WITH JOHNSON, MIRMIRAN, & THOMPSON INC. LOGO IN BORDER

APPROVED: *Jason Z. Stuyver*  
DATE: 2/3/2022 DISTRICT 5 DEPUTY DIRECTOR

APPROVED: *GC*  
DATE: 2/4/22 DISTRICT 6 DEPUTY DIRECTOR

APPROVED: *Michael J. ...*  
DATE: 02/04/2022 DISTRICT 9 DEPUTY DIRECTOR

APPROVED: *Darla Miller*  
DATE: 2/4/2022 DISTRICT 10 DEPUTY DIRECTOR

APPROVED: *Thomas D. Coay*  
DATE: 2/4/2022 DISTRICT 11 DEPUTY DIRECTOR

APPROVED: *Jackie ...*  
DATE: 3/21/22 DIRECTOR, DEPARTMENT OF TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
HL-10.31	4/17/20			800	1/21/22
MT-95.30	7/19/19			813	10/19/18
MT-95.31	7/19/19			821	4/20/12
MT-95.32	4/19/19			832	10/19/18
MT-95.45	1/17/20			913	4/16/21
MT-95.60	4/19/19			921	4/20/12
MT-95.61	4/19/19				
MT-98.10	1/17/20				
MT-98.11	1/17/20				
MT-98.20	4/19/19				
MT-98.22	1/17/20				
MT-98.28	1/17/20				
MT-105.10	1/17/20				

**UNDERGROUND UTILITIES**  
Contact Two Working Days Before You Dig

**OHIO811.org**  
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 2/4/2022 TIME: 3:40:06 PM USER: vnuñez pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\_Statewide\Statewide\112676\6401-Engineering\_Singh\Associates\Lighting\Sheets\112676\_GT001.dgn

LIGHTING TITLE SHEET

DESIGN AGENCY

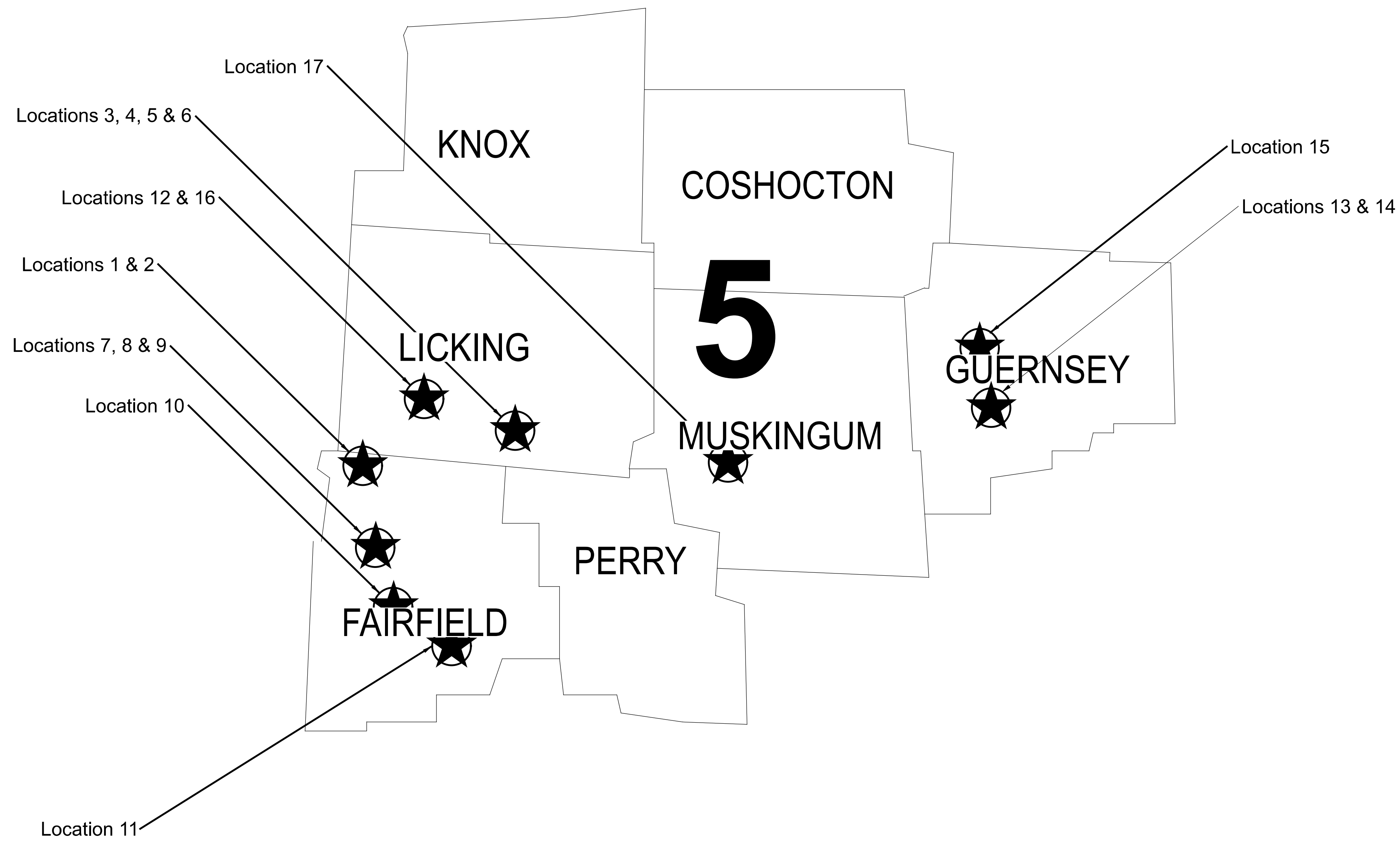
**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER: VN

REVIEWER: SG 01/07/22

PROJECT ID: 112676

SHEET TOTAL: P.1 197



DESIGN AGENCY



DESIGNER

VN

REVIEWER

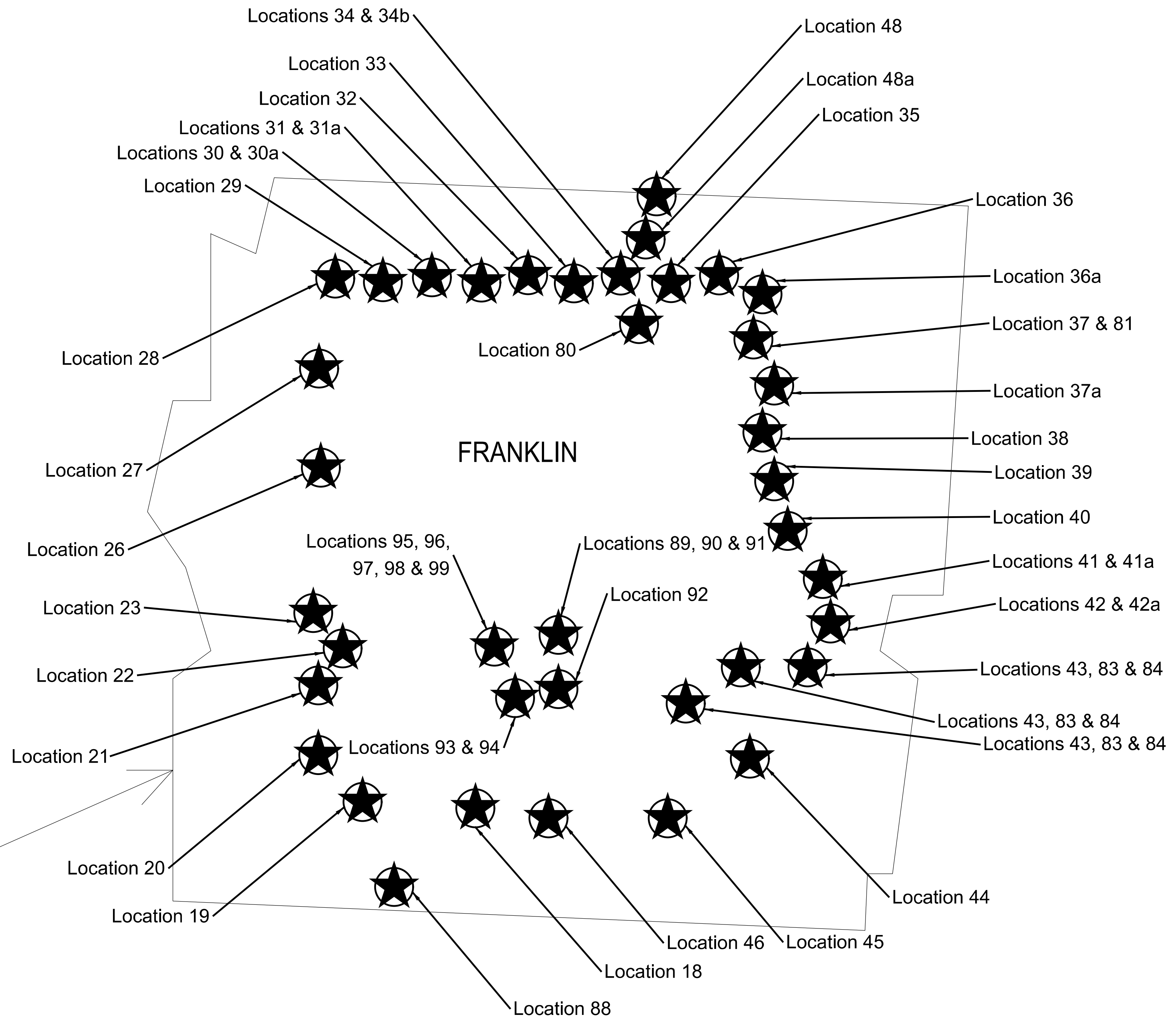
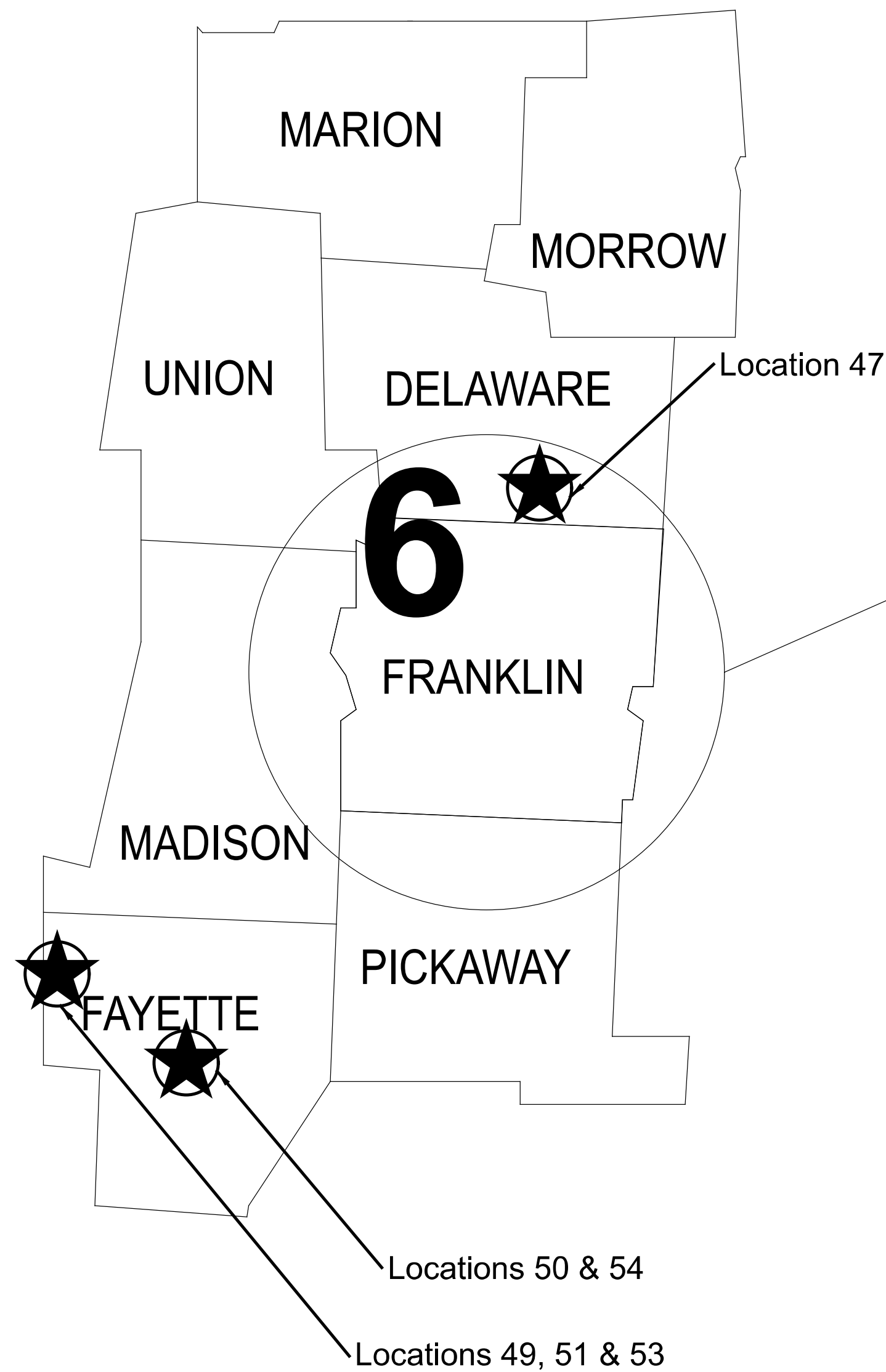
SG 03/11/22

PROJECT ID

112676

SHEET TOTAL

P.2 197



DESIGN AGENCY



DESIGNER

VN

REVIEWER

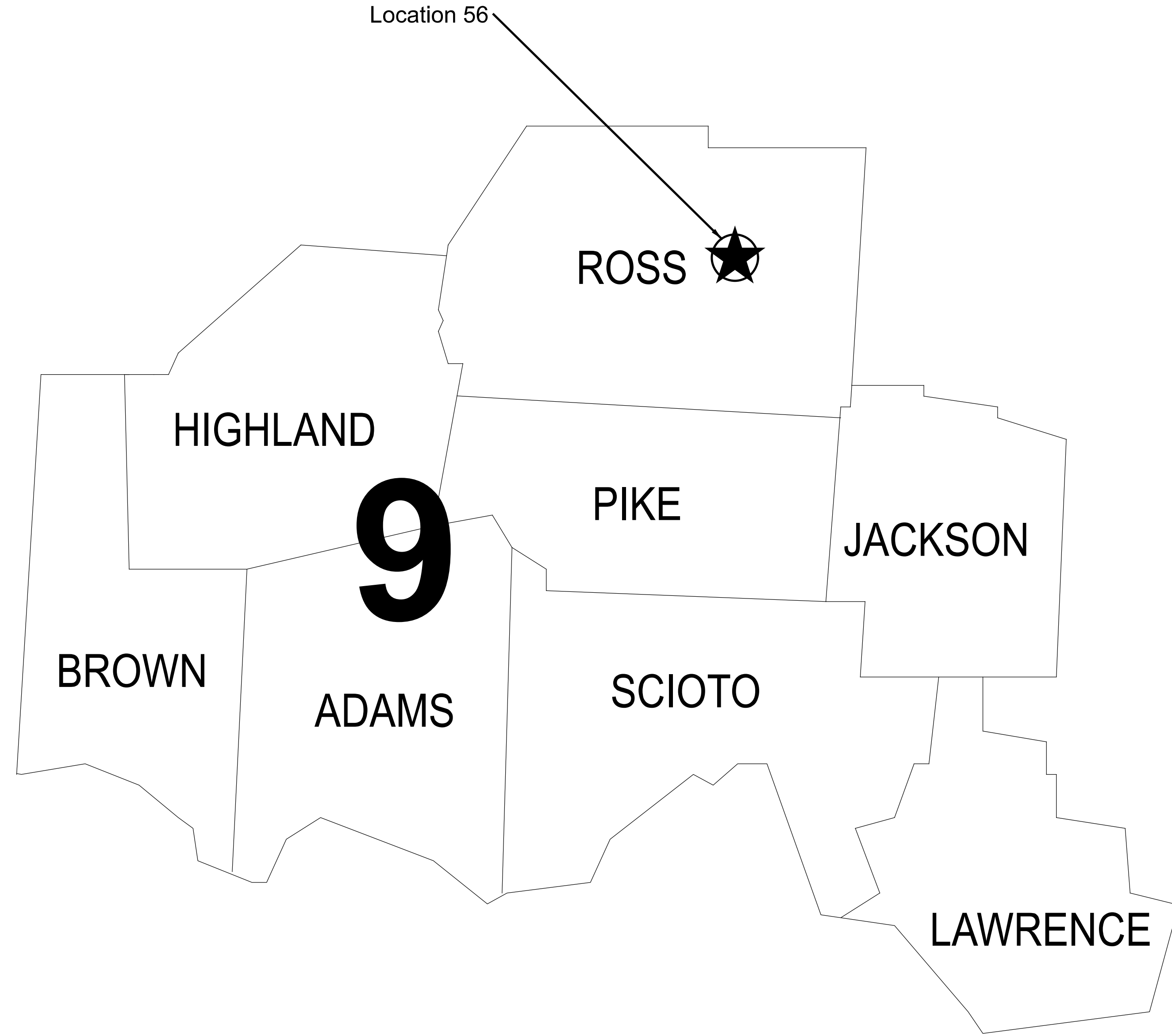
SG 03/11/22

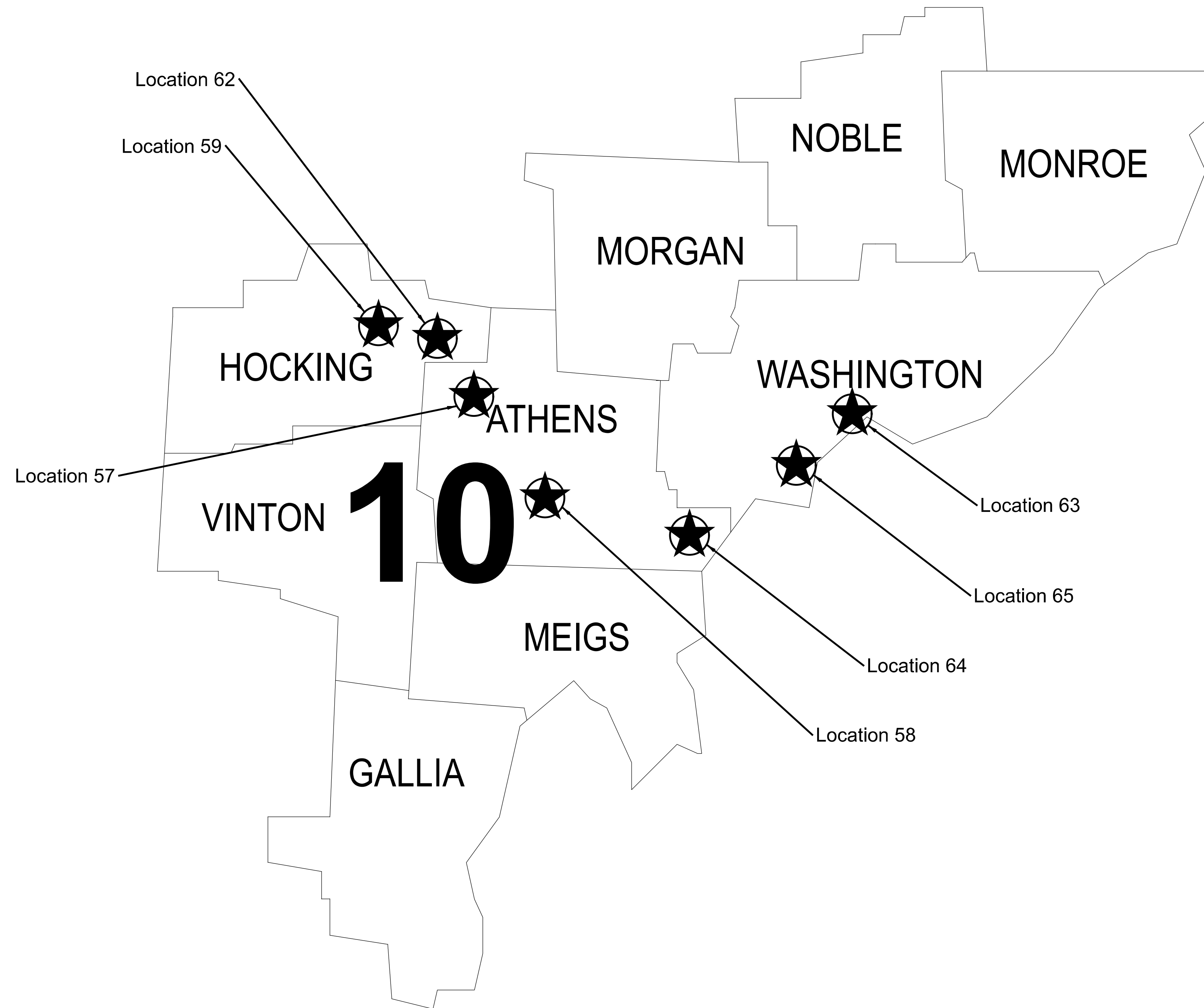
PROJECT ID

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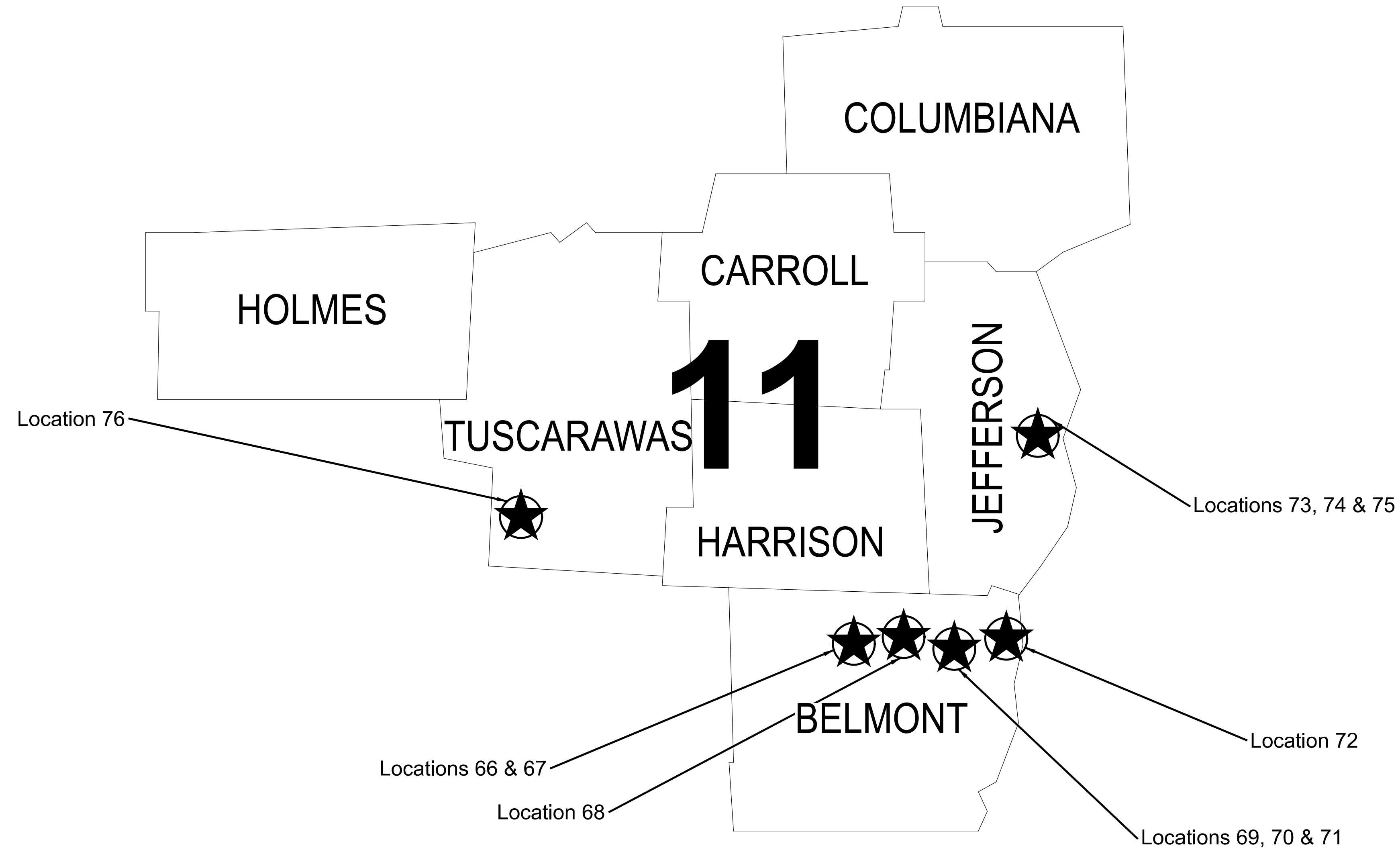
SHEET TOTAL

P.3 197





DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG	03/11/22
PROJECT ID	
112676	
SHEET	TOTAL
P.5	197



DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES INC CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
P.6	197

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_80VW730  
HOLOPHANE: \*MODEL: HMLLED3\_PK4\_30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_60VW730  
HOLOPHANE: \*MODEL: HMLLED3 PK3 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_70C3730  
HOLOPHANE: \*MODEL: HMLLED3 PK4 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_70C3730  
HOLOPHANE: \*MODEL: HMLLED3 PK4 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 50-59K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_60C3730  
HOLOPHANE: \*MODEL: HMLLED3 PK3 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_50VW730  
HOLOPHANE: \*MODEL: HMLLED3 PK2 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_50VW730  
HOLOPHANE: \*MODEL: HMLLED3\_PK2\_30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_60VW730  
HOLOPHANE: \*MODEL: HMLLED3 PK3 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 33-41K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_40C3730  
HOLOPHANE: \*MODEL: HMLLED3 PK2 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_30C3730  
HOLOPHANE: \*MODEL: HMLLED3 PK1 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69K LUMENS 480V**

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: \*MODEL: ERHM02\_60VW730  
HOLOPHANE: \*MODEL: HMLLED3 PK3 30K

\* OR EQUAL AS APPROVED BY THE ENGINEER.

**LUMINAIRE REMOVED, AS PER PLAN**

FOR EXISTING LUMINAIRES BEING REMOVED AND NOT REPLACED WITH A NEW LUMINAIRE OR COUNTERWEIGHT, THE CONTRACTOR SHALL REMOVE THE TENON AND ALL EXISTING WIRING FROM THE LUMINAIRE TO THE JUNCTION BOX. THE CONTRACTOR SHALL PLUG THE PUNCH OUT HOLE IN THE JUNCTION BOX WITH A RUBBER GROMMET TO SEAL THE JUNCTION BOX WHERE THE WIRE WAS LOCATED. THE WORK SHALL BE INCIDENTAL TO THE PAY ITEM 625, LUMINAIRE REMOVED, AS PER PLAN.

IF THE DISTRICT REQUESTS OR TENON IS NON-REMOVABLE (I.E. WELDED), THIS ITEM MAY BE NON-PERFORMED WITH THE CONTRACTOR LEAVING THE TENON AND BALLAST AS STATED IN "ITEM 625, LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED". ALL QUANTITIES WILL BE ADJUSTED, AS DIRECTED BY THE ENGINEER.

**GENERAL NOTE**

ADJUSTMENTS OF TENONS (REMOVABLE ONLY) TO PLACE SYSTEM IN BALANCE PER HL-10.31 OR MANUFACTURER RECOMMENDATIONS IS INCIDENTAL TO INSTALLATION OF THE LUMINAIRE

**EXISTING LED LUMINAIRES OR NON-FUNCTIONING LOWERING DEVICES**

IF THE CONTRACTOR ENCOUNTERS LIGHT TOWERS/POLES WITH EXISTING LED LUMINAIRES, NON-FUNCTIONING LOWERING DEVICES, OR TOWERS/POLES INADVERTENTLY LOCATED INSIDE ANOTHER ACTIVE CONSTRUCTION SITE, THE SITUATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND DISTRICT LIGHTING PERSONAL BEFORE REPLACING ANY LUMINAIRES. AS DIRECTED BY THE ENGINEER, IF THE DISTRICT ELECTS TO NOT REPLACE, THE LED LUMINAIRE SHALL BE TURNED OVER TO THE DISTRICT AS "FURNISHED ONLY".

THE FOLLOWING PAY ITEMS SHALL BE USED FOR WORK AS DESCRIBED ABOVE AS WELL AS FOR ANY LIGHT TOWERS THAT ARE UNABLE TO BE LOWERED.

ITEM 625, LUMINAIRE, HIGH MAST SOLID STATE (LED) (FURNISH ONLY) – 187 EACH  
ITEM 625, LUMINAIRE, LOW MAST SOLID STATE (LED) (FURNISH ONLY) – 24 EACH**LOWERING RINGS RAISED WHEN CONTRACTOR NOT ON SITE**

LOWERING RINGS ON HIGH MAST TOWERS LOCATED WITHIN 100 FEET OF THE TRAVELED LANES MUST BE RETURNED TO THE ELEVATED AND LOCKED POSITION BEFORE CONTRACTOR LEAVES THE SITE (E.G., OVERNIGHT AFTER CEASING WORK FOR THE DAY). RINGS FURTHER THAN 100 FEET MAY BE LEFT NEAR THE GROUND IF SAFELY PROPPED WITH A TEMPORARY CAGE, WHICH TYPICALLY IS CONSTRUCTED OF 2 X 4 WOOD BOARDS AND SPREADERS PLACED ON THE GROUND. SUCH CAGES SHOULD ALSO BE USED WHENEVER THE CONTRACTOR IS WORKING UNDER THE RING.

**ITEM 625-LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED**

THIS ITEM CONSISTS OF REMOVING THE LOWER PORTION OF AN EXISTING HPS LUMINAIRE WHILE LEAVING THE BALLAST ENCLOSURE IN PLACE TO SERVE AS A COUNTERWEIGHT ON A LOWERING DEVICE RING WHEN UPGRADING ONE OR MORE OF THE EXISTING HPS LUMINAIRES TO SOLID-STATE (LED).

REMOVE THE GLASS (REFRACTOR), REFLECTOR, LAMP, LAMP SOCKET, LAMP SOCKET WIRES AND ANY OTHER PARTS THAT MAY PROTRUDE THROUGH THE BOTTOM OF THE BALLAST ENCLOSURE. REMOVE OR DISCONNECT THE TAP WIRING FROM THE JUNCTION BOX TO EACH HPS LUMINAIRE AND CAP EACH TAP WIRE WITH A WIRE NUT AND WRAP IN UL-LISTED ELECTRICAL TAPE.

LEAVE THE EXISTING BALLAST ENCLOSURE IN PLACE TO SERVE AS A COUNTERWEIGHT. DO NOT REMOVE THE BALLAST OR ANY INTERNAL PARTS FROM THE BALLAST ENCLOSURE. SEAL ANY OPENINGS CREATED IN THE BOTTOM OF THE BALLAST ENCLOSURE CREATED TO PREVENT INSECT AND BIRD ACCESS. USE SILICONE CAULK AND/OR LIGHTWEIGHT POLYMER PLUGS ("PUSH-PENNIES") TO FILL ANY ACCESS HOLES IN THE BOTTOM OF THE BALLAST ENCLOSURE. DO NOT FILL OPENINGS LARGER THAN 1/4-INCH WITH CAULK ALONE.

ANY MATERIAL REMOVED FROM THIS ITEM BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY OFF SITE.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID OF EACH FOR ITEM 625-LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

**CONTINGENCY QUANTITIES**

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR THE ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES INC.  
CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SHEET TOTAL

P.7 197

**ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A)**

THIS ITEM SHALL CONSIST OF REPLACING GALVANIZED LOWERING CABLES WITH STAINLESS STEEL FOR HIGH MAST LIGHTING TOWERS WITH **FUNCTIONAL** LOWERING DEVICES AS IDENTIFIED IN THE PLANS OR BY DISTRICT PERSONNEL.

THE CONTRACTOR SHALL CONTACT HOLOPHANE FOR THE RECOMMENDED PROCEDURE TO REPLACE THE LOWERING CABLES. EACH TOWER HAS THREE CABLES THAT WILL BE REPLACED. THE CONTRACTOR CREW LEADER SHALL BE PRESENT DURING ALL CABLE REPLACEMENTS INCLUDING THE REPLACEMENTS WITH A HOLOPHANE REPRESENTATIVE PRESENT.

AFTER INSTALLATION, THE LOWERING CABLES SHALL BE TESTED ACCORDING TO 625.19E WITH AN ODOT REPRESENTATIVE PRESENT. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND DURING TESTING.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

**ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B)**

THIS ITEM SHALL CONSIST OF REPLACING GALVANIZED LOWERING CABLES WITH STAINLESS STEEL FOR HIGH MAST LIGHTING TOWERS WITH **NON-FUNCTIONAL** LOWERING DEVICES THAT WILL REQUIRE THE TOWER TO BE LAID DOWN IN ORDER TO REPLACE CABLES AS IDENTIFIED IN THE PLANS OR BY DISTRICT PERSONNEL.

ALL REQUIREMENTS STATED IN "ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A)" SHALL APPLY.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

**ITEM 625 - LIGHTING, MISC.: HOLOPHANE FIELD REPRESENTATIVE**

THIS ITEM SHALL CONSIST OF THE PRESENCE OF A HOLOPHANE FIELD REPRESENTATIVE. THE HOLOPHANE FIELD REP SHALL BE PRESENT FOR THE FIRST TWO DAYS OF LOWERING CABLE REPLACEMENT. THE FIELD REP SHALL VERIFY THE PROPER PROCEDURE IS BEING FOLLOWED BY THE CONTRACTOR. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH DAY.

**DISTRICT 5 (06/ERD/OT) - 20 HOUR**  
**DISTRICT 10 (09/ERD/OT) - 20 HOUR**  
**DISTRICT 11 (10/ERD/OT) - 20 HOUR**

**ITEM 625, LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION**

THIS ITEM CONSISTS OF EXPOSING, INSPECTING, AND LUBRICATING A PARTICULARLY CORROSION-PRONE AREA OF CERTAIN HIGH MAST TOWER LIFT CABLES, ESPECIALLY THOSE THAT USE GALVANIZED LIFT CABLES THAT RUN THROUGH A GUIDE TUBE WHEN THEY PASS THROUGH THE HOLLOW AXIS OF THE CENTERING ARMS. THIS PARTICULAR METHOD OF LIFT CABLE CONSTRUCTION IS MOST COMMON IN HOLOPHANE BRAND LOWERING DEVICES. THE BRAND OF MANUFACTURE IS OFTEN PRESENTED ON A SMALL ALUMINUM TAG ATTACHED TO THE HOISTING WINCH GEARBOX.

THE CONTRACTOR MAY USE FACTORY-AUTHORIZED INSPECTION PROCEDURE, THE CONTRACTOR'S OWN ESTABLISHED AND DOCUMENTED INSPECTION PROCEDURE (WITH WRITTEN APPROVAL OF THE ENGINEER), OR THE WRITTEN PROCEDURE BELOW.

IT IS RECOMMENDED THAT THIS INSPECTION BE PERFORMED PRIOR TO INSTALLING NEW LED LUMINAIRES, IN CASE A SIGNIFICANT CABLE ISSUE IS FOUND AND THE ENGINEER DETERMINES THAT THE RING SHOULD NOT BE RAISED.

BELOW IS THE ODOT OFFICE OF ROADWAY ENGINEERING RECOMMENDED INSPECTION PROCEDURE TO CHECK FOR CORROSION AND SECTION LOSS IN THE GUIDE TUBE PORTION OF GALVANIZED WIRE ROPE LIFT CABLES ON HOLOPHANE LOWERING DEVICES (TYPICALLY MODEL LD05). THIS INSPECTION PROCEDURE ALSO INCLUDES ROUTINE LIFT CABLE LUBRICATION GUIDANCE.

1. LOWER THE DEVICE. STAND WELL BACK FROM THE TOWER BASE FOR SAFETY, IN CASE THE RING FALLS. THIS IS A GENERAL SAFETY REQUIREMENT FOR ALL HIGH MAST TOWER LD OPERATIONS. STOP LOWERING WHEN THE RING REACHES A GOOD WORKING HEIGHT.
2. CRIB UP THE DEVICE WITH A CAGE OR STILTS MADE FROM 2 X 4S, LARGE JACK STANDS, ETC. WITH THE RING AT A GOOD WORKING HEIGHT.
3. AFTER THE RING IS CRIBBED, START ADDING SMALL AMOUNTS OF SLACK TO THE WIRE ROPE ASSEMBLY WHILE PULLING DOWN ON THE ENDS OF THE LIFT CABLES WHERE THE STRAND VISE IS ATTACHED. MAINTAIN CONSTANT TENSION IN THE LIFT CABLES. THIS IS BEST DONE WITH 2-3 HELPERS PULLING THE CABLES DOWN, OR POSSIBLY BY ATTACHING WEIGHTS TO WIRE ROPE THE END LOOP COILS IF NECESSARY.
4. CONTINUE EXPOSING THE ENDS OF THE WIRE ROPE UNTIL THE ENTIRE PORTION THAT IS NORMALLY HIDDEN INSIDE THE AXIS OF THE GUIDE ARM MECHANISM IS EXPOSED, ABOUT 18-24 INCHES. BE AWARE THAT AT SOME POINT THE TRANSITION PLATE MAY HIT THE TOP OF THE TOWER, AT WHICH POINT NO MORE WIRE ROPE CAN BE PULLED DOWN BELOW THE RING.
5. KEEP A CLOSE EYE ON THE DRUM CABLE. IF THE DRUM CABLE STARTS TO GO SLACK, BE SURE TO PULL IT OUT OF THE DOOR AND MAINTAIN TENSION ON IT SO, THE ROLLS ON THE WINCH DRUM DO NOT LOOSEN OR GET CROSSED; THE WINDINGS ON THE DRUM SHOULD REMAIN NEAT AND TIGHTLY COILED.
6. SLIDE THE GUIDE TUBE UP TO EXPOSE THE PORTION OF WIRE ROPE NORMALLY INSIDE IT. THE TOP PORTION OF THE WIRE ROPE INSIDE THIS TUBE IS THE FOCUS OF THIS INSPECTION: A LOCATION SUBJECT TO CORROSION OF GALVANIZED LIFT CABLES.

**ITEM 625, LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION (CONT'D)**

7. USE A STIFF, NYLON-BRISTLE BRUSH TO CLEAN ANY LOOSE SCALE FROM THE WIRE ROPE. A SMALL AMOUNT OF SURFACE CORROSION IS EXPECTED WITH GALVANIZED WIRE ROPES AND MAY BE IGNORED. CLEAN THE INSIDE OF THE GUIDE TUBE, PREFERABLY WITH COMPRESSED AIR. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION, BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE. A MARLINSPIKE (E.G., MCMMASTER-CARR 3876T19) MAY BE USED TO SEPARATE THE STRANDS FOR CLOSE INSPECTION AT THE SUBJECT LOCATION. FOR REFERENCE, ODOT SPECS (725.21) CALL FOR WIRE ROPE COMPRISED OF 7 STRANDS OF 19 WIRES (7 X 19).
8. INSPECT ALL VISIBLE PORTIONS OF THE LIFT CABLES, NOT JUST THE NOTED LOCATION INSIDE THE GUIDE TUBE. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION, BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE. DO NOT RAISE THE LOWERING DEVICE IF THESE CONDITIONS ARE PRESENT, UNLESS AUTHORIZED TO DO SO BY THE ENGINEER, OR IF THE RING IS LOCATED IN AN AREA THAT IT WOULD PRESENT A HAZARD TO TRAFFIC IF LEFT IN THE LOWERED STATE.
9. CLEAN AND LUBRICATE ALL ACCESSIBLE PORTIONS OF THE LIFT CABLES AND DRUM CABLE. USE A LUBRICANT SUITABLE FOR APPLICATION TO WIRE ROPE (E.G., MCMMASTER-CARR 1242K14). FOR A STANDING TOWER, TYPICALLY ONLY THE UPPER AND LOWER PORTIONS OF THE LIFT CABLES WILL BE ACCESSIBLE FOR LUBRICATION, BUT THE DRUM CABLE CAN USUALLY BE LUBRICATED ENTIRELY AS PART OF THE INSPECTION PROCEDURE.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

**ITEM 625, LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION**

THIS ITEM CONSISTS OF EXPOSING AND INSPECTING HIGH MAST TOWER LIFT CABLES WHERE THEY PASS THROUGH THE HOLLOW AXIS OF THE CENTERING ARMS.

THE CONTRACTOR MAY USE FACTORY-AUTHORIZED INSPECTION PROCEDURE, THE CONTRACTOR'S OWN ESTABLISHED AND DOCUMENTED INSPECTION PROCEDURE (WITH WRITTEN APPROVAL OF THE ENGINEER), OR THE WRITTEN PROCEDURE BELOW.

IT IS RECOMMENDED THAT THIS INSPECTION BE PERFORMED PRIOR TO INSTALLING NEW LED LUMINAIRES, IN CASE A SIGNIFICANT CABLE ISSUE IS FOUND AND THE ENGINEER DETERMINES THAT THE RING SHOULD NOT BE RAISED.

1. LOWER THE DEVICE. STAND WELL BACK FROM THE TOWER BASE FOR SAFETY, IN CASE THE RING FALLS. THIS IS A GENERAL SAFETY REQUIREMENT FOR ALL HIGH MAST TOWER LD OPERATIONS. STOP LOWERING WHEN THE RING REACHES A GOOD WORKING HEIGHT.
2. CRIB UP THE DEVICE WITH A CAGE OR STILTS MADE FROM 2 X 4S, LARGE JACK STANDS, ETC. WITH THE RING AT A GOOD WORKING HEIGHT.
3. AFTER THE RING IS CRIBBED, START ADDING SMALL AMOUNTS OF SLACK TO THE WIRE ROPE ASSEMBLY WHILE PULLING DOWN ON THE ENDS OF THE LIFT CABLES WHERE THE STRAND VISE IS ATTACHED. MAINTAIN CONSTANT TENSION IN THE LIFT CABLES. THIS IS BEST DONE WITH 2-3 HELPERS PULLING THE CABLES DOWN, OR POSSIBLY BY ATTACHING WEIGHTS TO WIRE ROPE THE END LOOP COILS IF NECESSARY.
4. CONTINUE EXPOSING THE ENDS OF THE WIRE ROPE UNTIL THE ENTIRE PORTION THAT IS NORMALLY HIDDEN INSIDE THE AXIS OF THE GUIDE ARM MECHANISM IS EXPOSED, ABOUT 18-24 INCHES. BE AWARE THAT AT SOME POINT THE TRANSITION PLATE MAY HIT THE TOP OF THE TOWER, AT WHICH POINT NO MORE WIRE ROPE CAN BE PULLED DOWN BELOW THE RING.
5. KEEP A CLOSE EYE ON THE DRUM CABLE. IF THE DRUM CABLE STARTS TO GO SLACK, BE SURE TO PULL IT OUT OF THE DOOR AND MAINTAIN TENSION ON IT SO, THE ROLLS ON THE WINCH DRUM DO NOT LOOSEN OR GET CROSSED; THE WINDINGS ON THE DRUM SHOULD REMAIN NEAT AND TIGHTLY COILED.
6. SLIDE THE GUIDE TUBE UP TO EXPOSE THE PORTION OF WIRE ROPE NORMALLY INSIDE IT. THE TOP PORTION OF THE WIRE ROPE INSIDE THIS TUBE IS THE FOCUS OF THIS INSPECTION: A LOCATION SUBJECT TO CORROSION OF GALVANIZED LIFT CABLES.
7. USE A STIFF, NYLON-BRISTLE BRUSH TO CLEAN ANY LOOSE SCALE FROM THE WIRE ROPE. A SMALL AMOUNT OF SURFACE CORROSION IS EXPECTED WITH GALVANIZED WIRE ROPES AND MAY BE IGNORED. CLEAN THE INSIDE OF THE GUIDE TUBE, PREFERABLY WITH COMPRESSED AIR. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION, BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE.
8. INSPECT ALL VISIBLE PORTIONS OF THE LIFT CABLES, NOT JUST THE NOTED LOCATION INSIDE THE GUIDE TUBE. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION, BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE. DO NOT RAISE THE LOWERING DEVICE IF THESE CONDITIONS ARE PRESENT, UNLESS AUTHORIZED TO DO SO BY THE ENGINEER, OR IF THE RING IS LOCATED IN AN AREA THAT IT WOULD PRESENT A HAZARD TO TRAFFIC IF LEFT IN THE LOWERED STATE.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

DESIGN AGENCY



DESIGNER  
JSL

REVIEWER  
KRD 04/22/22

PROJECT ID  
112676

SHEET TOTAL  
P.7A | 197



MODEL: Sheet PAPER/SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 12:43:11 PM USER: vnunez  
 pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\_Statewide\Statewide\112676\6401-Engineering\_Singh\Associates\Lighting\Sheets\112676\_LN007.dgn

**ITEM 614, MAINTAINING TRAFFIC**

A MINIMUM OF TWO LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON 4-LANE ROADWAYS EXCLUDING THE CLOSURE TIMES STATED IN THE LANE VALUE CONTRACT TABLE BELOW.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON 2-LANE ROADWAYS.

ALL INTERCHANGE RAMPS SHALL REMAIN OPEN AND TRAFFIC MAINTAINED DURING CONSTRUCTION.

**LANE VALUE CONTRACT TABLE**

LOCATION	CRITICAL WORK: TIME WHEN ONE (1) LANE MAY BE CLOSED	TIME UNIT	DISINCENTIVE (\$ PER TIME UNIT)
ALL 4-LANE ROUTES	HTTP://PLCM.DOT.STATE.OH.US	15 MIN.	\$2,500

THE PERMITTED CLOSURE TIMES LISTED IN THE LANE VALUE CONTRACT TABLE ABOVE WILL BE IN EFFECT 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE FOR THIS PROJECT. NO WORK WITHIN ACTIVE TRAVEL LANES OR WHICH WILL SLOW TRAFFIC IS PERMITTED AT ANY OTHER TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT, IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR WILL HAVE ON SITE AND IN WORKING AND OR SUITABLE CONDITION; ALL EQUIPMENT, TOOLS, LABORERS, LEO'S, TRAFFIC CONTROL DEVICES AND INCIDENTALS NECESSARY TO EFFICIENTLY PERFORM THE CLOSURE BEFORE INITIALIZING THE LANE CLOSURE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

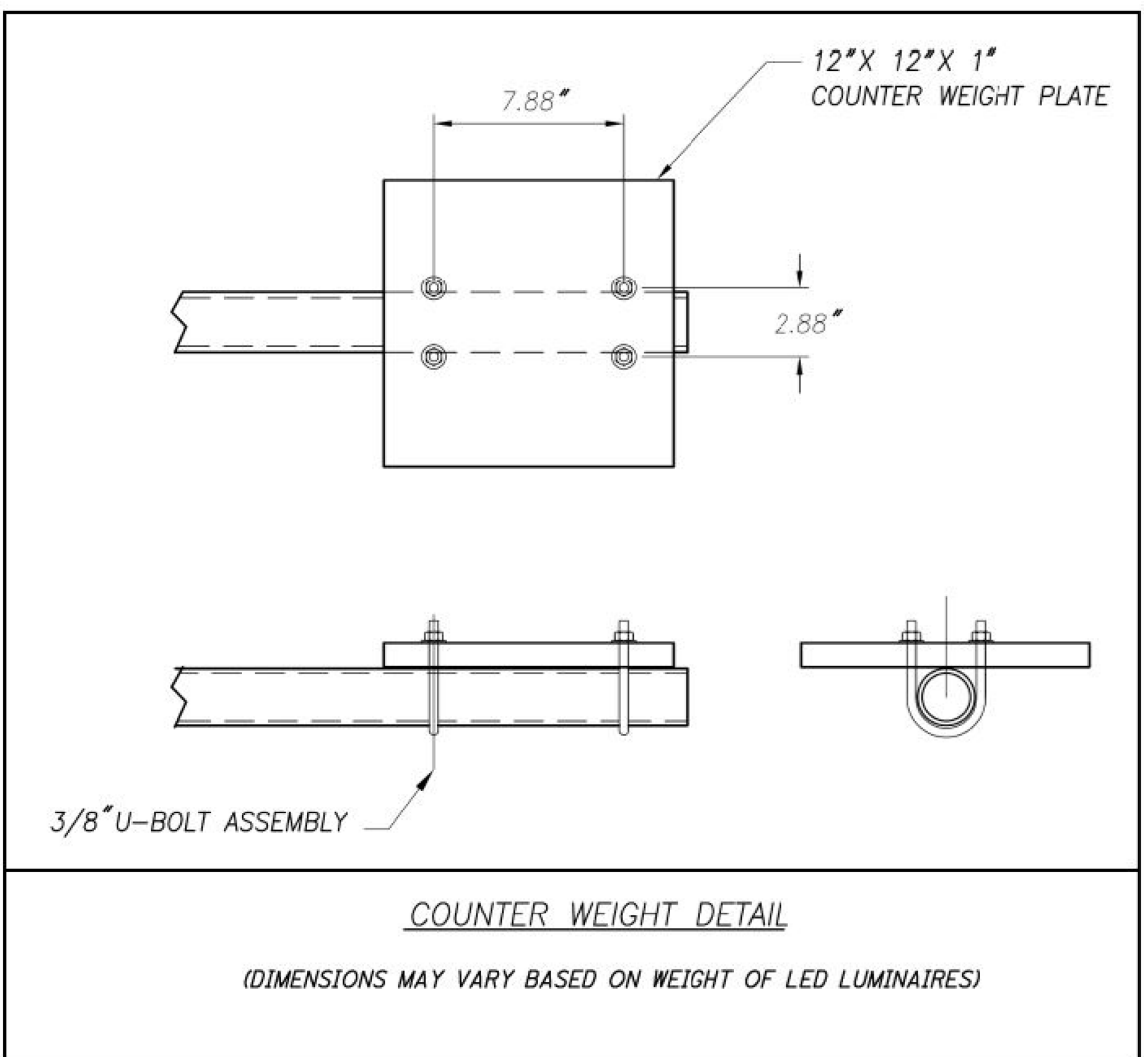
**LUMINAIRE MISC.: COUNTERWEIGHT, HIGH MAST, AS PER PLAN**

ANY LIGHT TOWERS/POLES THE CONTRACTOR ENCOUNTERS THAT CANNOT BE ADEQUATELY BALANCED USING THE METHOD OF LEAVING THE BALLAST ENCLOSURE IN PLACE, AS DESCRIBED ELSEWHERE IN THESE PLANS, BRING THIS TO THE ATTENTION OF THE ENGINEER. AS DIRECTED BY THE ENGINEER, INSTALL COUNTERWEIGHTS AS RECOMMENDED BY THE LUMINAIRE RING MANUFACTURER OR AN APPROVED EQUAL.

WHERE ITEMIZED IN THIS PLAN, COUNTERWEIGHTS SHALL BE FABRICATED AND SUPPLIED PER THE DETAILS SHOWN BELOW. THE CONTRACTOR SHALL VERIFY THE WEIGHT OF THE PROPOSED LED LUMINAIRES THAT ARE TO BE INSTALLED TO PROPERLY SIZE THE COUNTERWEIGHTS THAT ARE TO BE ADDED TO THE LUMINAIRE MOUNTING TENONS.

FOR EXISTING LUMINAIRES BEING REMOVED AND NOT REPLACED WITH A NEW LUMINAIRE BUT WILL HAVE A COUNTERWEIGHT INSTALLED IF INDICATED IN THE PLANS, THE CONTRACTOR SHALL KEEP THE TENON BUT REMOVE ALL EXISTING WIRING FROM THE LUMINAIRE TO THE JUNCTION BOX. THE TENON WILL BE CAPPED WITH A GALVANIZED STEEL PIPE CAP, THREADED OR SET-SCREW SECURED. THE CONTRACTOR SHALL PLUG THE PUNCH OUT HOLE IN THE JUNCTION BOX WITH A RUBBER GROMMET TO SEAL THE JUNCTION BOX WHERE THE WIRE WAS LOCATED.

THE FOLLOWING PAY ITEM SHALL BE USED FOR WORK AS DESCRIBED ABOVE.  
 ITEM 625, LUMINAIRE, MISC.: COUNTERWEIGHT, HIGH MAST, AS PER PLAN – 85 EACH



**LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS**

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES OF ROUTES LISTED IN THE LANE VALUE CONTRACT TABLE SHALL BE OPENED TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS:

EASTER, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING, CHRISTMAS, AND NEW YEARS

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS.

THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY THANKSGIVING	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

**NOTIFICATION OF ROAD CLOSURE OR RESTRICTION**

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER(S) (PIO) BY EMAIL  
 D05.PIO@DOT.STATE.OH.US                      D06.PIO@DOT.STATE.OH.US  
 D09.PIO@DOT.STATE.OH.US                      D10.PIO@DOT.STATE.OH.US  
 D11.PIO@DOT.STATE.OH.US

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.STATE.OH.US

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE- MENTIONED ITEMS, VIA MEDIA SOURCES.

**ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS, AS DIRECTED BY THE ENGINEER:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

A LEO AND PATROL CAR AS STATED ABOVE SHALL BE USED FOR ALL NIGHT WORK IN LOCATIONS SHOWN IN THE LANE VALUE CONTRACT TABLE.

IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE.

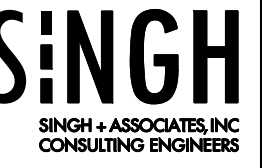
THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE**

DISTRICT 5 - 256 HOURS  
 DISTRICT 6 - 1008 HOURS  
 DISTRICT 9 - 16 HOURS  
 DISTRICT 10 - 112 HOURS  
 DISTRICT 11 - 176 HOURS

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22


PROJECT ID  
112676

SHEET TOTAL  
P.8 197

SHEET NUM.									PART.										ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.																							
7	7A	8	10	11	12	13	14	14A	01/ERD/O T	02/ERD/O T	03/ERD/O T	04/ERD/O T	05/ERD/O T	06/ERD/O T	07/ERD/O T	08/ERD/O T	09/ERD/O T	10/ERD/O T																													
<b>LIGHTING</b>																																															
			555	1,504	18	118	102		555	1,504	18	118	102								625	26263	2,297	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	7																					
			12			3			12			3									625	26263	15	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 60-69K LUMENS, 480V	7																					
			122	876	17	82	71		122	876	17	82	71								625	26263	1,168	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	7																					
			40	149					40	149											625	26263	189	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 60-69K LUMENS, 480V	7																					
			26						26												625	26263	26	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 50-59K LUMENS, 480V	7																					
187									38	127	2	11	9								625	26263	187	FACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN (FURNISH ONLY)	7																					
				177						177											625	26273	177	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 60-69K LUMENS, 480V	7																					
			4	149		35	7		4	149		35	7								625	26273	195	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 42-47K LUMENS, 480V	7																					
			5	3					5	3											625	26273	8	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 37-42K LUMENS, 480V	7																					
			31	11					31	11											625	26273	42	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 42-47K LUMENS, 480V	7																					
			10	13					10	13											625	26273	23	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 28-32K LUMENS, 480V	7																					
24									3	18		2	1								625	26273	24	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (FURNISH ONLY)	7																					
			302	1,611	37	94	21		302	1,611	37	94	21								625	27600	2,065	EACH	LUMINAIRE, MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED	7																					
			13	65	2	4	1		13	65	2	4	1								625	27600	85	EACH	LUMINAIRE, MISC.: COUNTERWEIGHT HIGH MAST	8																					
								102													625	50401	102	EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A)	7A																					
								5						10							625	50401	5	EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B)	7A																					
			805	2,861	35	238	180		805	2,861	35	238	180								625	75506	4,119	EACH	LUMINAIRE REMOVED																						
			445	953		105	112		445	953		105	112								625	75507	1,615	EACH	LUMINAIRE REMOVED, AS PER PLAN	7																					
								12								12					625	98000	12	EACH	LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION	7A																					
								1,050								1,050					625	98000	1,050	EACH	LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION	7A																					
	60													20							625	98700	60	HOUR	LIGHTING, MISC.: HOLOPHANE FIELD REPRESENTATIVE	7A																					
<b>MAINTENANCE OF TRAFFIC</b>																																															
		1,568							256	1,008	16	112	176								614	11110	1,568	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE																						
<b>INCIDENTALS</b>																																															
									LS	LS	LS	LS	LS								614	11000	LS			MAINTAINING TRAFFIC																					
									LS	LS	LS	LS	LS								624	10000	LS			MOBILIZATION																					

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER  
JSL

REVIEWER  
KRD 04/22/22


PROJECT ID  
112676

SHEET TOTAL  
P.9 | 197

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:05:23 AM USER: vnumez  
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LOCATION	SHEET NO.	DESCRIPTION	625																					
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED									
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
D05-01, 02		I-70 AND SR 204/TAYLOR RD	182	96	66	70	-	16	-	-	-	-	-	-	-	-	10	20						
D05-03		I-70 AND SR 37	64	32	22	22	-	10	-	-	-	-	-	-	-	-	-	10						
D05-04		I-70 AND SR 79	124	62	44	44	-	18	-	-	-	-	-	-	-	-	-	18						
D05-05		I-70 REST AREA	76	38	12	-	12	-	-	26	-	-	-	-	-	-	-	26						
D05-06		I-70 AND SR 13	76	38	30	18	-	-	20	-	-	-	-	-	-	-	-	8						
D05-07		US-33 AND CARROLL INTCHG	93	64	21	23	-	6	-	-	4	31	-	-	-	-	-	8						
D05-08		US-33 AND COL. LANCASTER RD	72	36	12	12	-	24	-	-	-	-	-	-	-	-	-	24						
D05-09		US-33 AND SR-188	80	40	18	18	-	22	-	-	-	-	-	-	-	-	-	22						
D05-10		US-33 AND US-22	76	38	18	18	-	-	20	-	-	-	-	-	-	-	-	20						
D05-11		US-33 AND TARKLIN ROAD	117	61	56	56	-	-	-	-	-	-	-	5	-	-	-	-						
D05-12		SR 161 AND SR 310	84	42	24	42	-	-	-	-	-	-	-	-	-	-	-	18						
D05-13		I-70 AND SR 209	68	34	30	30	-	4	-	-	-	-	-	-	-	-	-	4						
D05-14		I-70 AND I-77	202	101	45	101	-	-	-	-	-	-	-	-	-	-	-	56						
D05-15		I-77 AND US 22	68	33	17	19	-	14	-	-	-	-	-	-	-	-	-	16						
D05-16		SR 161 AND SR 37	108	50	24	42	-	8	-	-	-	-	-	-	-	-	-	26						
D05-17		I-70 AND US-40	72	40	6	40	-	-	-	-	-	-	-	-	-	-	-	26						
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	1562	805	445	555	12	122	40	26	4	31	5	0	10	302	0	0	0	0	0	0

DESIGN AGENCY  
  
 SINGH + ASSOCIATES INC.  
 CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SHEET TOTAL  
P.10 197

D05 LIGHTING SUB-SUMMARY

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:11:31 AM USER: vnuwez  
 p:\v\h\h\h\p-w\berlley.com\h\h\h\p-w-02\Documents\01 Active Projects\_Statewide\Statewide\112676\01-Engineering\_Singh\Associates\Lighting\Sheets\112676\_LS002.dgn

LOCATION	SHEET NO.	DESCRIPTION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625					
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED								
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					
D06-18		I-270 AND I-71	154	88	0	77	-	11	-	-	-	-	-	-	-	-	-	-	63					
D06-19		I-270 AND USR 62	76	38	6	6	-	32	-	-	-	-	-	-	-	-	-	-	32					
D06-20		I-270 AND GEORGESVILLE RD	64	41	-	8	-	33	-	-	-	-	-	-	-	-	-	-	23					
D06-21		I-270 AND US-40/ W BROAD RD	86	52	3	18	-	34	-	-	-	-	-	-	-	-	-	-	31					
D06-22		70 AND I-70 - BROAD RD TO I-70	19	19	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-				
D06-23		I-270 AND I-70 W	240	127	9	28	-	-	-	97	-	2	-	-	-	-	-	-	-	104				
D06-23a		I-70-I-270 TO HILLARD ROME RD	29	29	29	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-				
D06-26		I-270 AND CEMETERY RD	118	59	3	3	-	56	-	-	-	-	-	-	-	-	-	-	56					
D06-27		I-270 AND TUTTLE BLVD	48	24	12	12	-	12	-	-	-	-	-	-	-	-	-	-	12					
D06-28		I-270 AND US-33	152	95	3	43	-	-	-	52	-	-	-	-	-	-	-	-	54					
D06-29		I-270 AND SAWMILL	58	52	-	6	-	-	-	-	-	46	-	-	-	-	-	-	6					
D06-30		I-270 AND SR-315	91	47	-	36	-	-	-	-	-	-	11	-	-	-	-	-	44					
D06-30a		I-270 - SAWMILL TO SR-315	45	44	-	3	-	-	-	-	-	45	-	-	-	-	-	-	1					
D06-31		I-270 AND SR-315	147	79	57	66	-	8	-	-	5	-	-	-	-	-	-	-	11					
D06-32		I-270 AND US-23	170	90	75	90	-	-	-	-	-	-	-	-	-	-	-	-	5					
D06-33		I-270 - US-23 TO I-71	32	28	3	6	-	-	-	-	-	22	-	-	-	-	-	-	1					
D06-34		I-270 AND I-71	191	99	-	28	-	68	-	-	-	-	-	-	3	-	-	-	92					
D06-34b		I-71 - I-270 TO SR-161	32	32	32	-	-	-	-	32	-	-	-	-	-	-	-	-	-					
D06-35		I-270 AND CLEVELAND	126	55	6	33	-	26	-	-	-	-	-	-	-	-	-	-	65					
D06-36		I-270 AND SR-3	91	51	-	6	-	34	-	-	-	11	-	-	-	-	-	-	40					
D06-36a		I-270 - SR-3 TO SR-161	54	32	18	22	-	-	-	-	-	10	-	-	-	-	-	-	4					
D06-37		I-270 AND SR-161	178	97	68	85	-	-	-	-	12	-	-	-	-	-	-	-	18					
D06-37a		I-161-I-270 TO BUENOS AIRES BL	78	39	39	39	-	-	-	-	-	-	-	-	-	-	-	-	39					
D06-38		I-270 AND MORSE	104	52	36	42	-	10	-	-	-	-	-	-	-	-	-	-	16					
D06-39		I-270 AND EASTON	84	44	36	44	-	-	-	-	-	-	-	-	-	-	-	-	4					
D06-39a		I-270 AND AGLER	96	48	48	48	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-40		I-270 AND I-670	292	145	33	27	-	118	-	-	-	-	-	-	-	-	-	-	114					
D06-41		I-270 AND E BROAD	132	48	-	34	-	18	-	-	-	-	-	-	-	-	-	-	80					
D06-41a		I-270 - BROAD TO MAIN	116	37	-	-	-	37	-	-	-	-	-	-	-	-	-	-	79					
D06-42		I-270 AND E MAIN	146	54	-	34	-	20	-	-	-	-	-	-	-	-	-	-	92					
D06-42a		I-270 - MAIN TO LIVINGSTON	56	30	-	-	-	30	-	-	-	-	-	-	-	-	-	-	26					
D06-44		I-270 AND US-33 E	174	85	-	44	-	41	-	-	-	-	-	-	-	-	-	-	80					
D06-45		I-270 AND ALUM CREEK	33	33	3	3	-	30	-	-	-	-	-	-	-	-	-	-	30					
D06-46		I-270 AND US-23 S	88	88	10	38	-	50	-	-	-	-	-	-	-	-	-	-	52					
D06-47		I-71 AND US-36	36	36	12	12	-	24	-	-	-	-	-	-	-	-	-	-	24					
D06-48		I-71 AND GEMINI/POLARIS	101	68	3	63	-	-	-	-	-	5	-	-	-	-	-	-	30					
D06-48a		I-71 - I-270 TO SR-750	60	50	12	12	-	-	-	-	-	38	-	-	-	-	-	-	10					
D06-49		I-71 AND SR-435	76	38	18	18	-	20	-	-	-	-	-	-	-	-	-	-	20					
D06-50		I-71 AND PALMER	6	6	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-					
D06-51		US-35 AND SR-435 E	44	28	12	14	-	2	-	-	12	-	-	-	-	-	-	-	4					
D06-53		US-35 AND SR-435	82	44	24	33	-	-	-	-	11	-	-	-	-	-	-	-	14					
D06-54		US-35 AND US-62	70	37	9	17	-	18	-	-	-	-	-	-	-	-	-	-	24					
D06-77		I-70 AND HILLARD ROME RD	126	63	63	63	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-80		I-71 AND SR-161	52	28	24	24	-	-	-	-	4	-	-	-	-	-	-	-	-					
D06-81		SR-161 AND SUNBURY RD	84	42	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-84		I-70 AND SR-317	45	45	27	27	-	18	-	-	-	-	-	-	-	-	-	-	18					
D06-85		I-70 AND JAMES RD	44	44	30	30	-	14	-	-	-	-	-	-	-	-	-	-	14					
D06-86		ND COLLEGE AVE / SOUTHEAST	32	32	6	6	-	26	-	-	-	-	-	-	-	-	-	-	26					
D06-88		I-71 AND SR-665	57	57	57	57	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-89		I-670 AND I-71	194	104	27	68	-	36	-	-	-	-	-	-	-	-	-	-	63					
D06-90		I-71 AND I-670	66	37	3	27	-	-	-	-	10	-	-	-	-	-	-	-	26					
D06-91		I-670 - PARK ST TO 4TH ST	4	4	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-					
D06-95		I-670 AND US-33	103	49	16	17	-	30	-	-	-	-	-	-	-	-	-	-	38					
D06-96		SR-315 AND US-33	68	33	15	17	-	16	-	-	-	-	-	-	-	-	-	-	20					
D06-97		I-670 - PARK ST TO NEIL AVE	66	35	24	28	-	4	-	-	3	-	-	-	-	-	-	-	7					
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	5016	2861	953	1504	0	876	149	0	149	177	11	3	0	13	1612	0	0	0	0	

DESIGN AGENCY		
DESIGNER		VN
REVIEWER		SG 03/11/22
PROJECT ID		112676
SHEET TOTAL		P.11 197

D06 LIGHTING SUB-SUMMARY



Lighting Upgrade FY2021

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/14/2022 TIME: 9:13:39 AM USER: vnumez  
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LOCATION	SHEET NO.	DESCRIPTION			625	625	625	625	625	625	625	625	625	625	625	625	625						
					EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED						
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
D09-56		US-35 AND SR-159			72	35	0	18	-	17	-	-	-	-	-	-	-						
TOTALS CARRIED TO GENERAL SUMMARY					0.00	0.00	72.00	35.00	0.00	18.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	37.00	0.00	0.00	0.00	0.00	0.00

D09 LIGHTING SUB-SUMMARY

DESIGN AGENCY		
DESIGNER		VN
REVIEWER		SG 03/11/22
PROJECT ID 112676		
SHEET	TOTAL	
P.12	197	

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:15:45 AM USER: vnumez  
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REF NO.	SHEET NO.	STATION TO STATION	625																			
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED							
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					
D10-57		US-33 AND SR-78	32	16	0	4	-	12	-	-	-	-	-	-	-	-	-					
D10-58		US-33 AND RICHLAND RD	72	36	6	6	-	30	-	-	-	-	-	-	-	-	-					
D10-59		US-33 AND SR 328	6	3	3	-	3	-	-	-	-	-	-	-	-	-	-					
D10-62		US-33 AND TR-346	40	22	0	6	-	16	-	-	-	-	-	-	-	-	-					
D10-63		I-77 AND SR-7	82	41	33	35	-	6	-	-	-	-	-	-	-	-	-					
D10-64		TORCH ROAD REST AREA	18	18	-	-	-	-	-	-	18	-	-	-	-	-	-					
D10-65		SR-7 AND US-50	187	102	63	67	-	18	-	-	17	-	-	-	-	-	-					
TOTALS CARRIED TO GENERAL SUMMARY			0	0	437	238	105	118	3	82	0	0	35	0	0	0	0	94	0	0	0	0

D10 LIGHTING SUB-SUMMARY

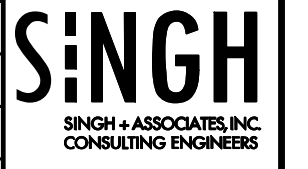
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SHEET	TOTAL
P.13	197

Lighting Upgrade FY2021

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/14/2022 TIME: 9:17:52 AM USER: vnumez  
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REF NO.	SHEET NO.	STATION TO STATION	625																					
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED									
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
D11-66,67		I-70 WB & EB REST AREA	60	30	30	18	-	12	-	-	-	-	-	-	-	-	-	-						
D11-68		I-70 AND SR 9	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
D11-69		I-70 AND MALL RD	14	14	-	-	-	14	-	-	-	-	-	-	-	-	-	-						
D11-70		I-70 AND BANFIELD RD	6	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-						
D11-71		I-70 AND I-470	6	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-						
D11-72		I-470 AND SR 7	80	40	40	40	-	-	-	-	-	-	-	-	-	-	-	-						
D11-73,74		US-22 AND SR 7 OVERLAP	46	23	9	9	-	14	-	-	-	-	-	-	-	-	-	-						
D11-75		US-22 AND SR 7	40	21	6	6	-	15	-	-	-	-	-	-	-	-	-	-						
D11-76		I-77 AND US 36	66	33	27	29	-	4	-	-	-	-	-	-	-	-	-	-						
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	325	180	112	102	0	71	0	0	7	0	0	0	0	21	0	0	0	0	0	

D11 LIGHTING SUB-SUMMARY

DESIGN AGENCY  
  
 SINGH + ASSOCIATES INC.  
 CONSULTING ENGINEERS

DESIGNER  
VN


REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SHEET TOTAL  
P.14 197

LOCATION	SHEET NO.	DESCRIPTION	625	625	625	625														
			REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A) EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B) EACH	LIGHTING MISC.: TOWER CABLE INSEPECTION AND LUBRICATION EACH	LIGHTING MISC.: TOWER CABLE INSEPECTION EACH														
D05-01	15,18	<b>I-70 AND S.R. 204/TAYLOR RD</b> X-3,Q-11 (100')  CONTINGENCY (LOCATIONS TO BE PROVIDED BY DISTRICT)		2																
D06	55-173	<b>ALL TOWER LOCATIONS</b>				1,050														
D09-56	174	<b>US-35 AND S.R. 159</b> A-1 TO A-6, B-1 TO B-6 (100')			12															
D10-57	175-176	<b>US-33 AND S.R. 78</b> B-1 TO B-8 (100')	8																	
D10-63	181	<b>I-77 AND S.R. 7</b> A-1 TO A-8, B-3,B-7 TO B-10 (110') B-1, B-2 (120')	13 2																	
D10-65	183-185	<b>S.R. 7 AND US-50/S.R. 339</b> A-A1 (80') A-A6,D-B1,D-B3,D-B5 TO D-B7 (100') A-A4,A-A5,A-A7,B-A2 TO B-A4,C-A1,C-A4,D-DB (110') D-A1 (110') A-A2,A-A3,A-B1,A-B3,B-A1,C-A2,D-B4 (120') A-B2,D-B2 (130') C-A3 (140')	1 6 9 7 2 1	1																
D11	186-197	<b>ALL TOWER LOCATIONS WITH GALVANIZED CABLES</b> (LOCATIONS TO BE PROVIDED BY DISTRICT)  NOTE: ASSUME 100' TOWER HEIGHT IF NOT SPECIFIED	43	2																
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>			102	5	12	1,050														

LIGHTING SUB-SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 JSL  
 REVIEWER  
 KR D 04/22/22  
 PROJECT ID  
 112676  
 SHEET TOTAL  
 P.14A 197

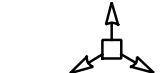
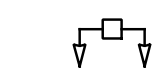

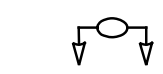
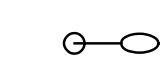

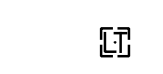

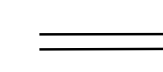
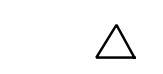


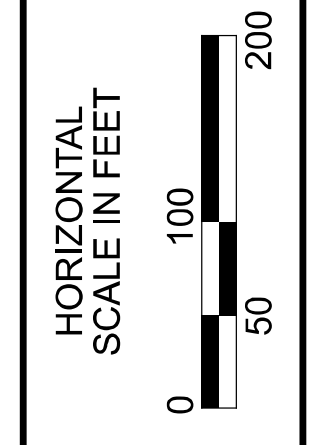
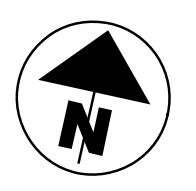
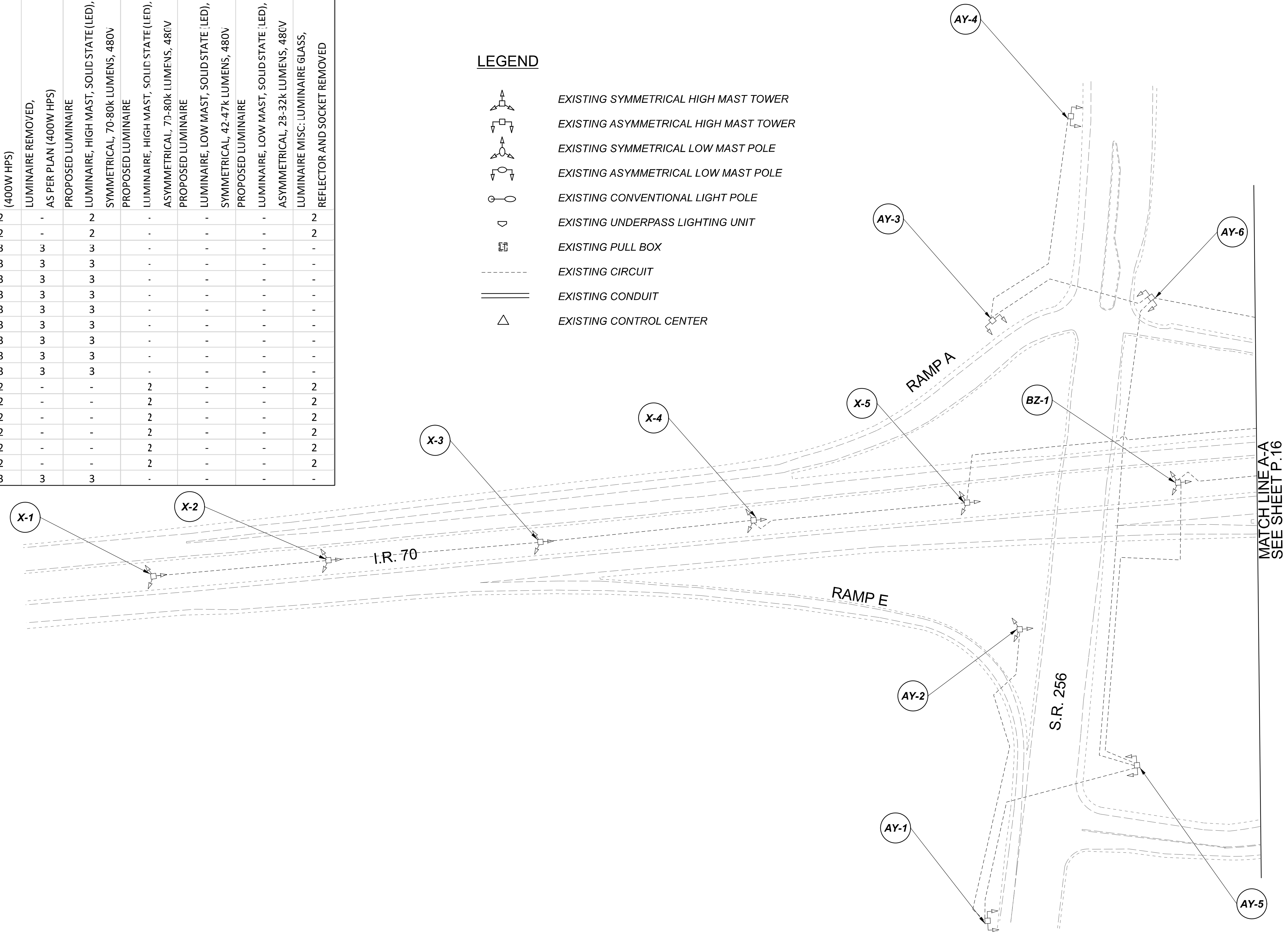
D05-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
X-1	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
X-2	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
X-3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
X-4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
X-5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
AZ-8	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
AZ-7	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AZ-6	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-7	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-6	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-5	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-3	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

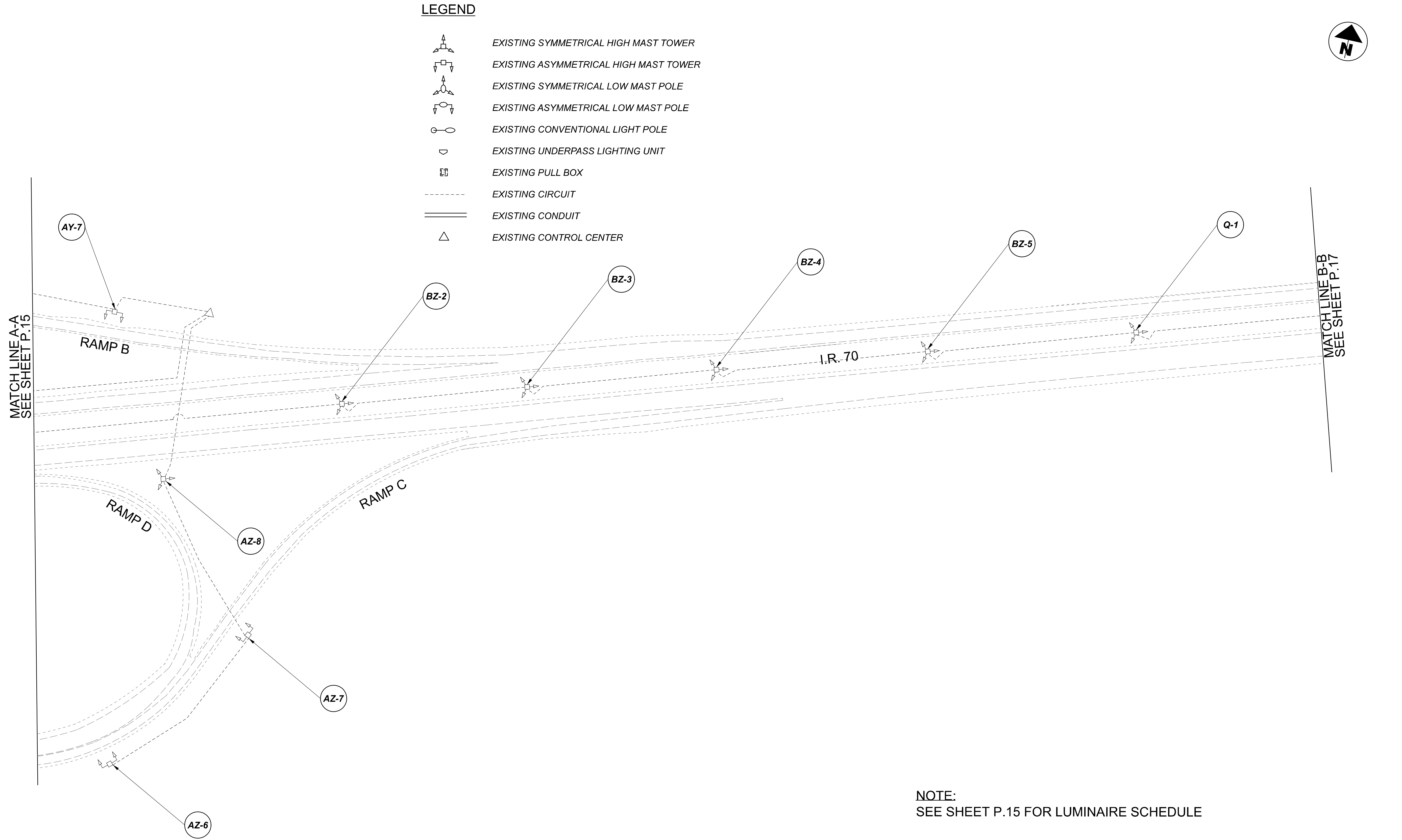


Lighting Plan - Locations 1 & 2  
I-70 and S.R. 256

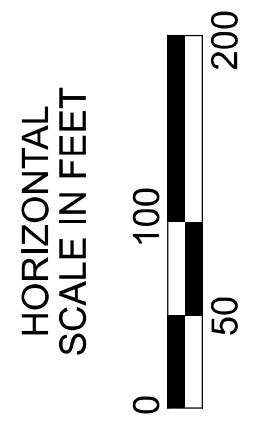
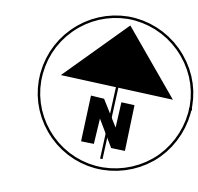
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.15	197

D05-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 14:08 PM USER: vnunez  
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- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
  - EXISTING ASYMMETRICAL HIGH MAST TOWER
  - EXISTING SYMMETRICAL LOW MAST POLE
  - EXISTING ASYMMETRICAL LOW MAST POLE
  - EXISTING CONVENTIONAL LIGHT POLE
  - EXISTING UNDERPASS LIGHTING UNIT
  - EXISTING PULL BOX
  - EXISTING CIRCUIT
  - EXISTING CONDUIT
  - EXISTING CONTROL CENTER



**NOTE:**  
SEE SHEET P.15 FOR LUMINAIRE SCHEDULE

Lighting Plan - Locations 1 & 2  
I-70 and S.R. 256

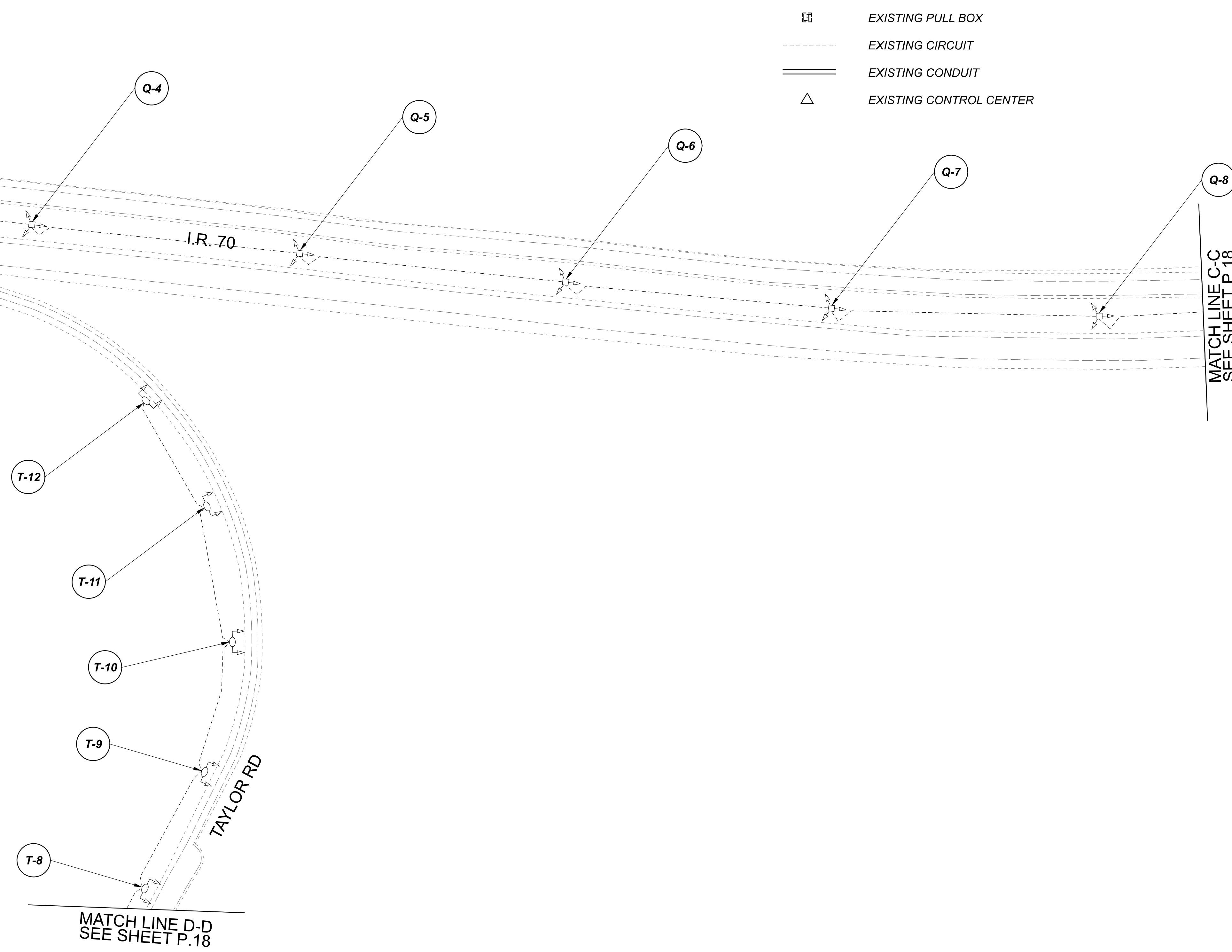
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	4
SHEET	TOTAL
P.16	197

D05-Lighting Upgrade FY2021

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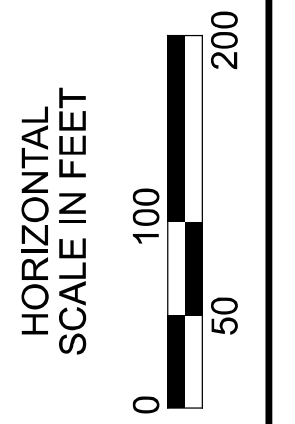
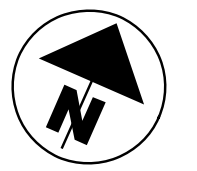
MATCH LINE B-B  
SEE SHEET P.16

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGHMAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGHMAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AY-1	4	2	-	-	-	2	-	-	-	-	2	-
AY-4	4	2	-	-	-	2	-	-	-	-	2	-
Q-1	6	3	3	-	-	-	-	-	-	-	-	-
Q-2	6	3	3	3	-	-	-	-	-	-	-	-
Q-3	6	3	3	3	3	-	-	-	-	-	-	-
Q-4	6	3	3	3	3	-	-	-	-	-	-	-
Q-5	6	3	3	3	3	-	-	-	-	-	-	-
Q-6	6	3	3	3	3	-	-	-	-	-	-	-
Q-7	6	3	3	3	3	-	-	-	-	-	-	-
Q-8	6	3	3	3	3	-	-	-	-	-	-	-
Q-9	6	3	3	3	3	-	-	-	-	-	-	-
Q-10	6	3	3	3	3	-	-	-	-	-	-	-
Q-11	6	3	3	3	3	-	-	-	-	-	-	-
Q-12	6	3	3	3	3	-	-	-	-	-	-	-
T-3	1	1	-	-	-	-	-	-	-	-	1	-
T-4	1	1	-	-	-	-	-	-	-	-	1	-
T-5	1	1	-	-	-	-	-	-	-	-	1	-
T-6	1	1	-	-	-	-	-	-	-	-	1	-
T-7	1	1	-	-	-	-	-	-	-	-	1	-
T-8	1	1	-	-	-	-	-	-	-	-	1	-
T-9	1	1	-	-	-	-	-	-	-	-	1	-
T-10	1	1	-	-	-	-	-	-	-	-	1	-
T-11	1	1	-	-	-	-	-	-	-	-	1	-
T-12	1	1	-	-	-	-	-	-	-	-	1	-



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER




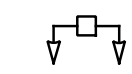
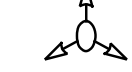

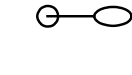


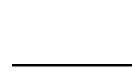


Lighting Plan - Locations 1 & 2  
I-70 and S.R. 256/204A (Taylor Rd)

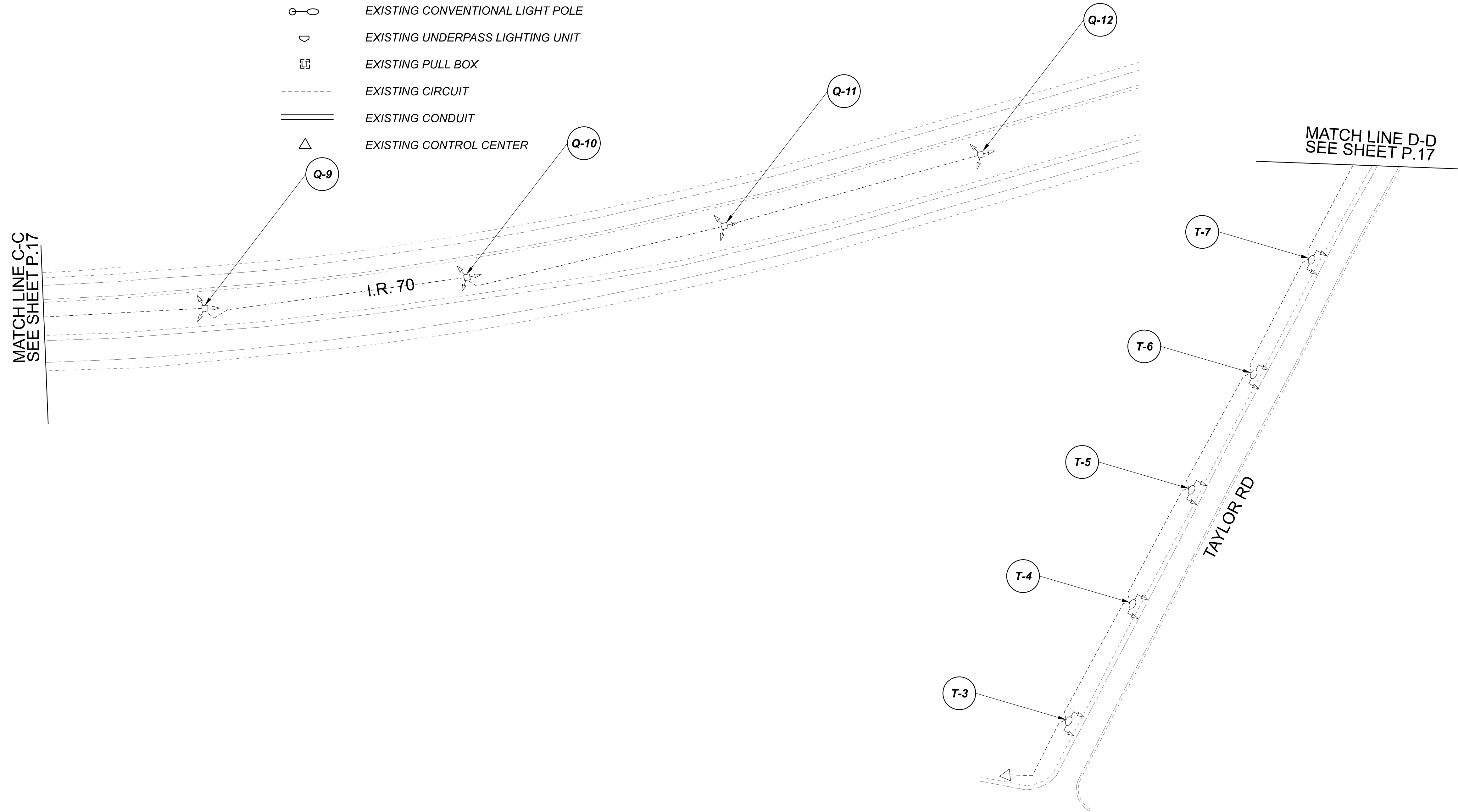
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
3	4
SHEET	
P.17	TOTAL 197

D05-Lighting Upgrade FY2021

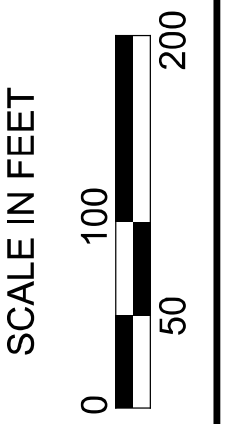
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



**NOTE:**  
SEE SHEET P.17 FOR LUMINAIRE SCHEDULE



Lighting Plan - Locations 1 & 2  
I-70 and S.R. 256/204A (Taylor Rd)

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

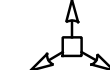
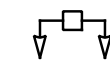
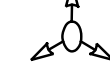
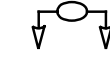
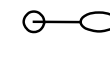


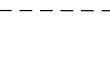
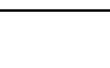
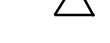
SUBSET	TOTAL
4	4

SHEET	TOTAL
P.18	197

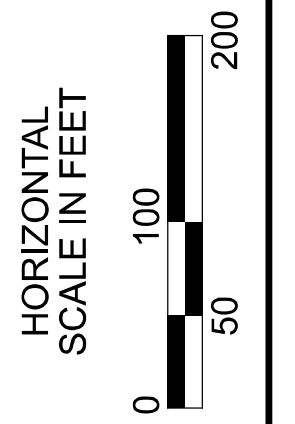
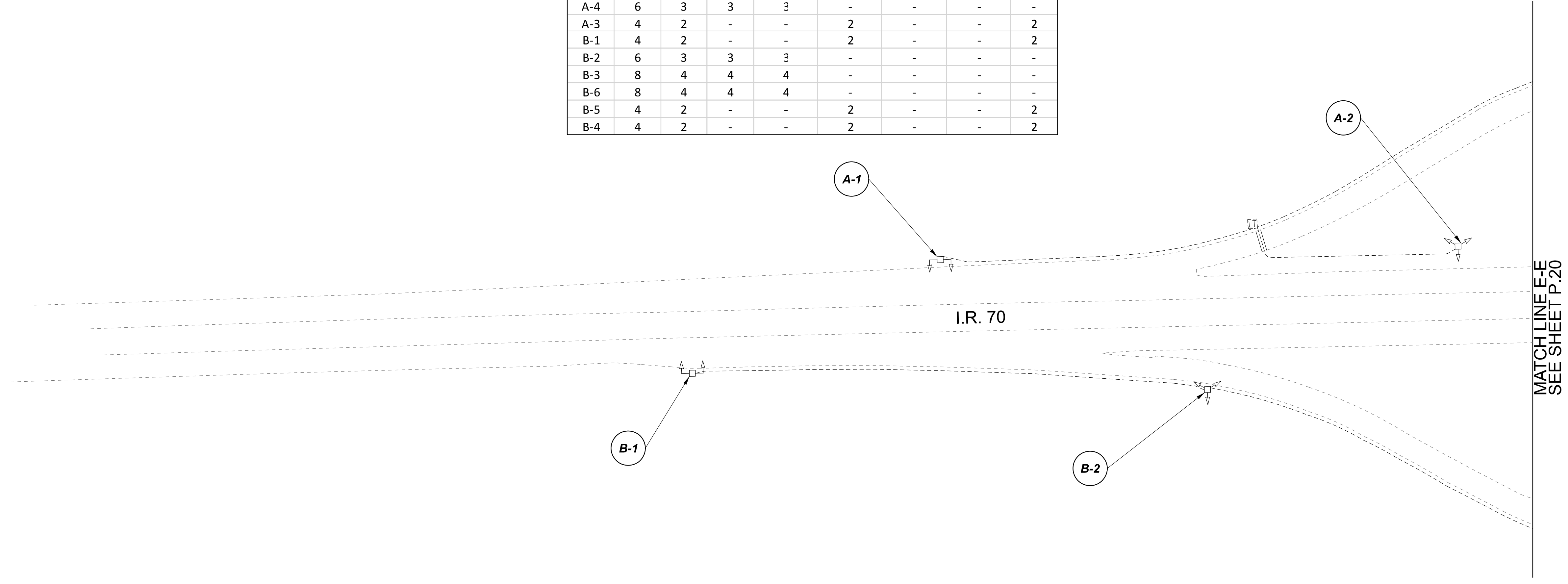
D05-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	-	-	-	-	-	-	2
A-2	8	4	4	4	4	-	-	-	-	-	-	-
A-5	8	4	4	4	4	-	-	-	-	-	-	-
A-4	6	3	3	3	-	-	-	-	-	-	-	-
A-3	4	2	-	-	-	2	-	-	-	-	-	2
B-1	4	2	-	-	-	2	-	-	-	-	-	2
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	8	4	4	4	4	-	-	-	-	-	-	-
B-6	8	4	4	4	4	-	-	-	-	-	-	-
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B-4	4	2	-	-	-	2	-	-	-	-	-	2



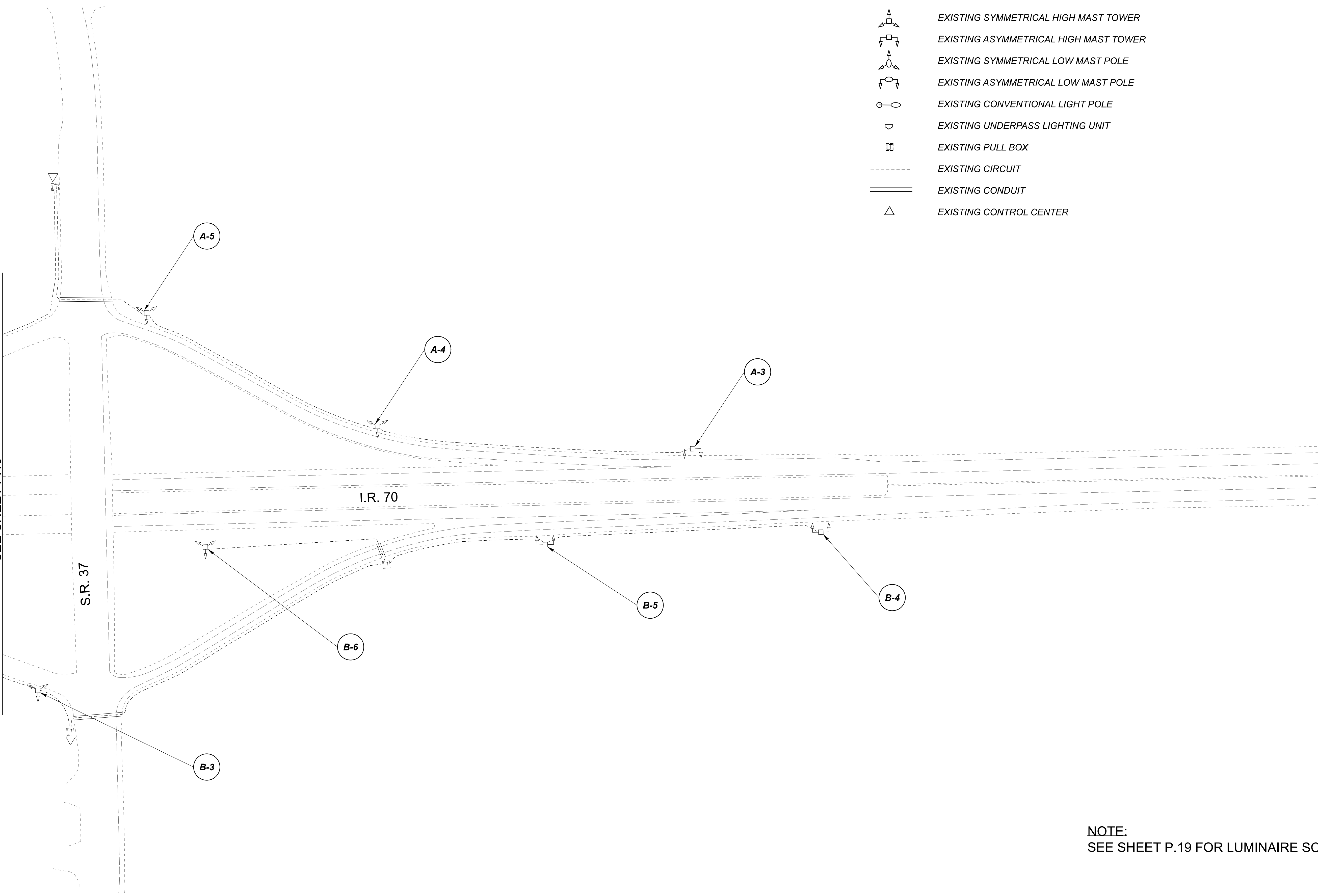
Lighting Plan - Location 3  
I-70 and S.R. 37

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.19	197

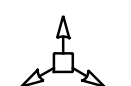
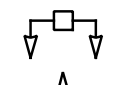
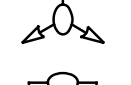
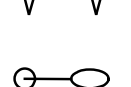
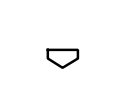

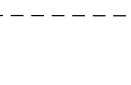



D05-Lighting Upgrade FY2021

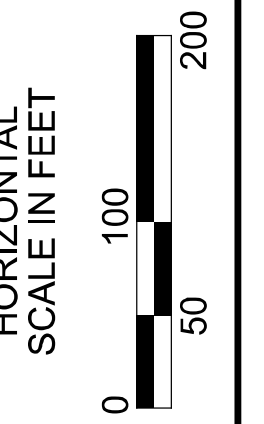
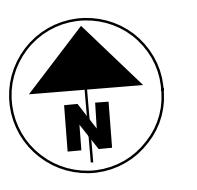
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MATCH LINE E-E  
 SEE SHEET P.19



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 3  
 I-70 and S.R. 37











**NOTE:**  
 SEE SHEET P.19 FOR LUMINAIRE SCHEDULE

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.20	197

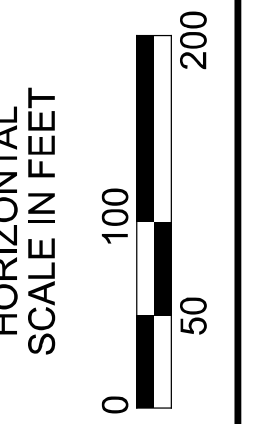
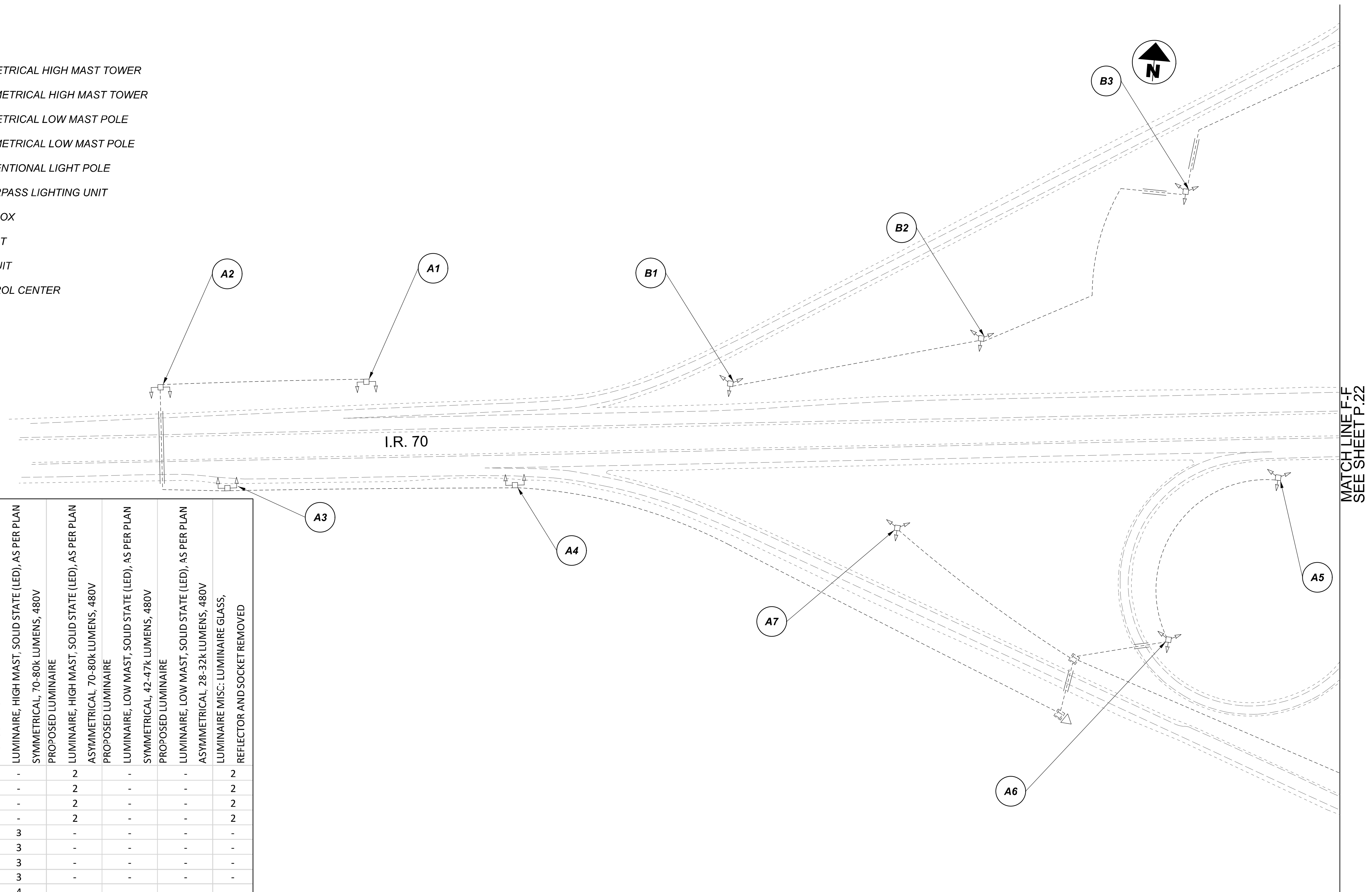
D05-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 14:59 PM USER: vnunes  
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	-
A-2	4	2	-	-	-	2	-	-	-	-	2	-
A-3	4	2	-	-	-	2	-	-	-	-	2	-
A-4	4	2	-	-	-	2	-	-	-	-	2	-
A-5	6	3	3	3	-	-	-	-	-	-	-	-
A-6	6	3	3	3	-	-	-	-	-	-	-	-
A-7	6	3	3	3	-	-	-	-	-	-	-	-
A-8	6	3	3	3	-	-	-	-	-	-	-	-
A-9	8	4	4	4	-	-	-	-	-	-	-	-
B-1	8	4	4	4	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-5	6	3	3	3	-	-	-	-	-	-	-	-
B-6	6	3	3	3	-	-	-	-	-	-	-	-
C-1	6	3	3	3	-	-	-	-	-	-	-	-
C-2	6	3	3	3	-	-	-	-	-	-	-	-
C-3	6	3	3	3	-	-	-	-	-	-	-	-
C-4	4	2	-	-	-	2	-	-	-	-	2	-
C-5	4	2	-	-	-	2	-	-	-	-	2	-
C-6	4	2	-	-	-	2	-	-	-	-	2	-
C-7	4	2	-	-	-	2	-	-	-	-	2	-
C-8	4	2	-	-	-	2	-	-	-	-	2	-



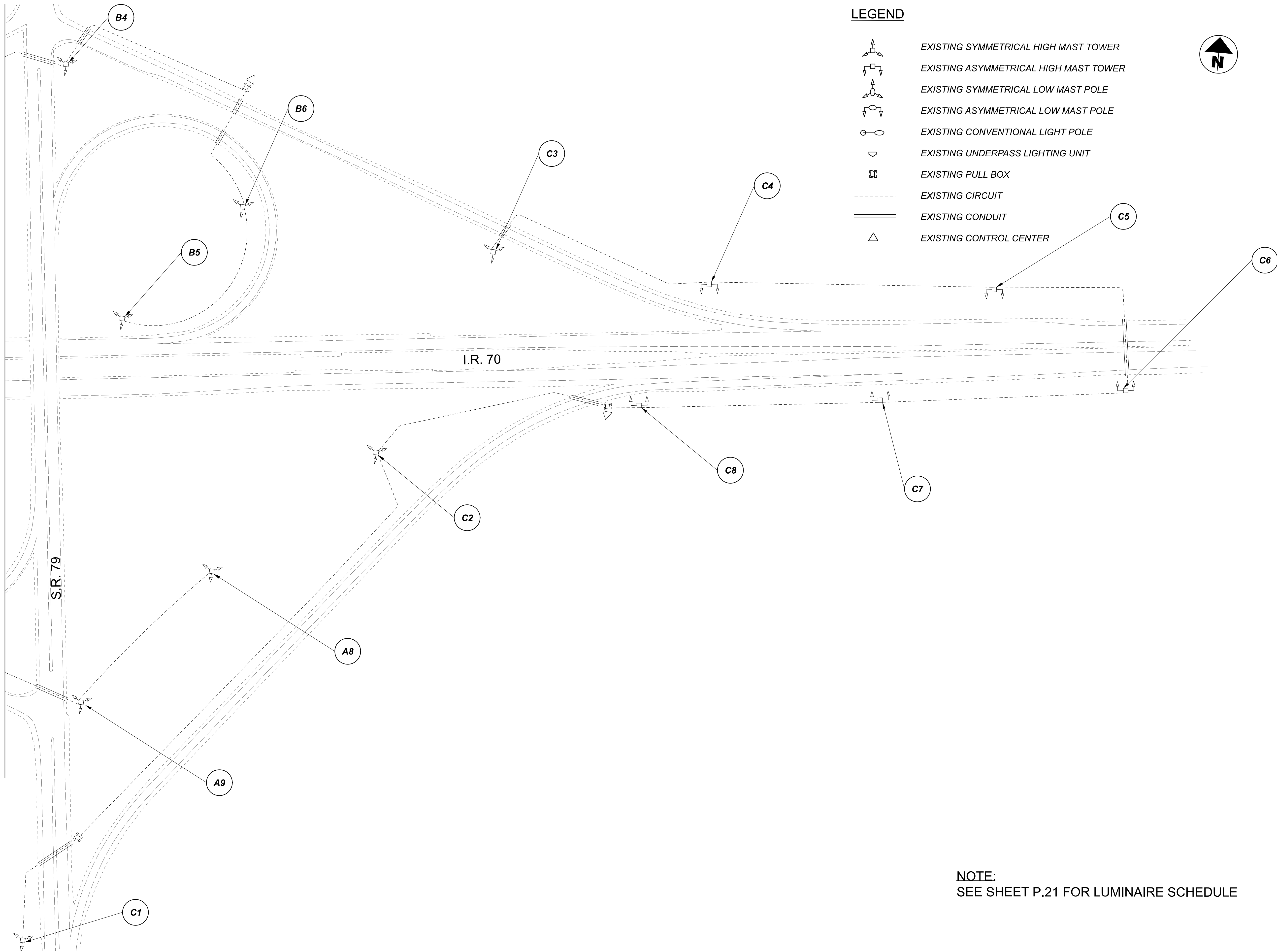
Lighting Plan - Location 4  
I-70 and S.R. 79

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.21	
TOTAL	
197	

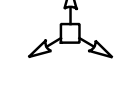
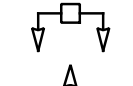
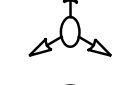
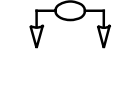
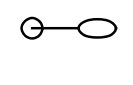


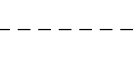
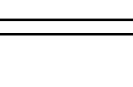

D05-Lighting Upgrade FY2021

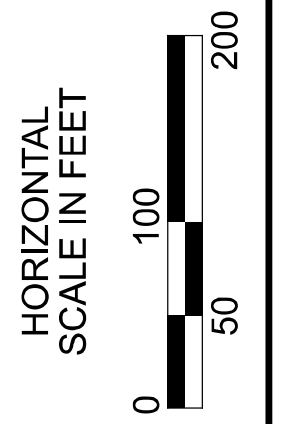
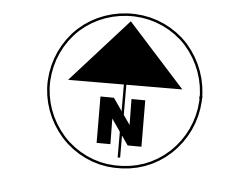
MODEL SHEET PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 11:50 PM USER: vjunez  
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MATCH LINE F-F  
 SEE SHEET P.21



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER




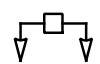

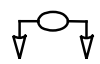
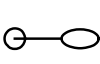


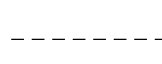
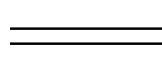

Lighting Plan - Location 4  
 I-70 and S.R. 79

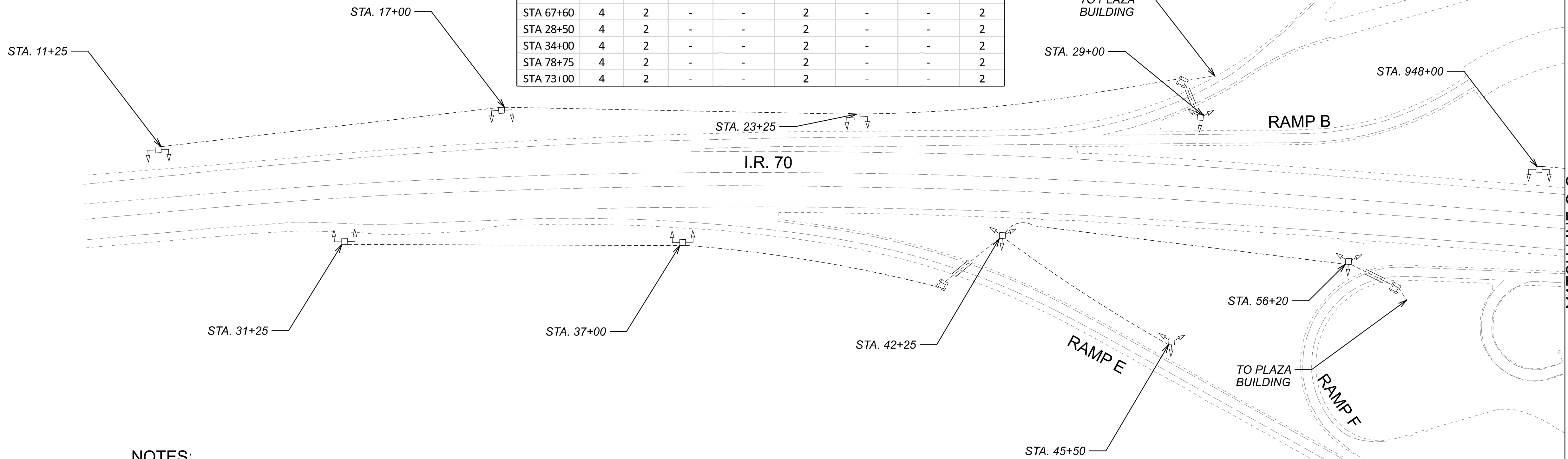
**NOTE:**  
 SEE SHEET P.21 FOR LUMINAIRE SCHEDULE

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.22	197



**LEGEND**

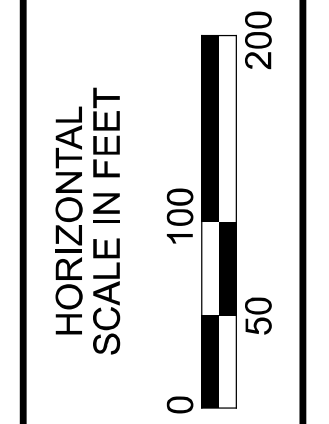
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 50-59k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
STA 17+00	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 23+25	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 37+00	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 42+25	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 45+50	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 11+25	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 31+25	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 29+00	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 953+75	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 948+00	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 56+20	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 61+90	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 67+60	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 28+50	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 34+00	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 78+75	4	2	-	-	2	-	-	-	-	-	-	2	-
STA 73+00	4	2	-	-	2	-	-	-	-	-	-	2	-

**NOTES:**

1. NO INFORMATION ON THE LIGHT POLE TAGS ARE AVAILABLE FROM THE RECORD DRAWINGS (PROJ. 770-2003-074\_I70/LICKING COUNTY REST AREA). THEREFORE STATION CALLOUTS ARE PROVIDED ON THE PLAN TO CROSS-REFERENCE WITH THE TABLE SHOWN ON THIS SHEET.



Lighting Plan - Location 5  
I-70 Rest Area

DESIGN AGENCY  
**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

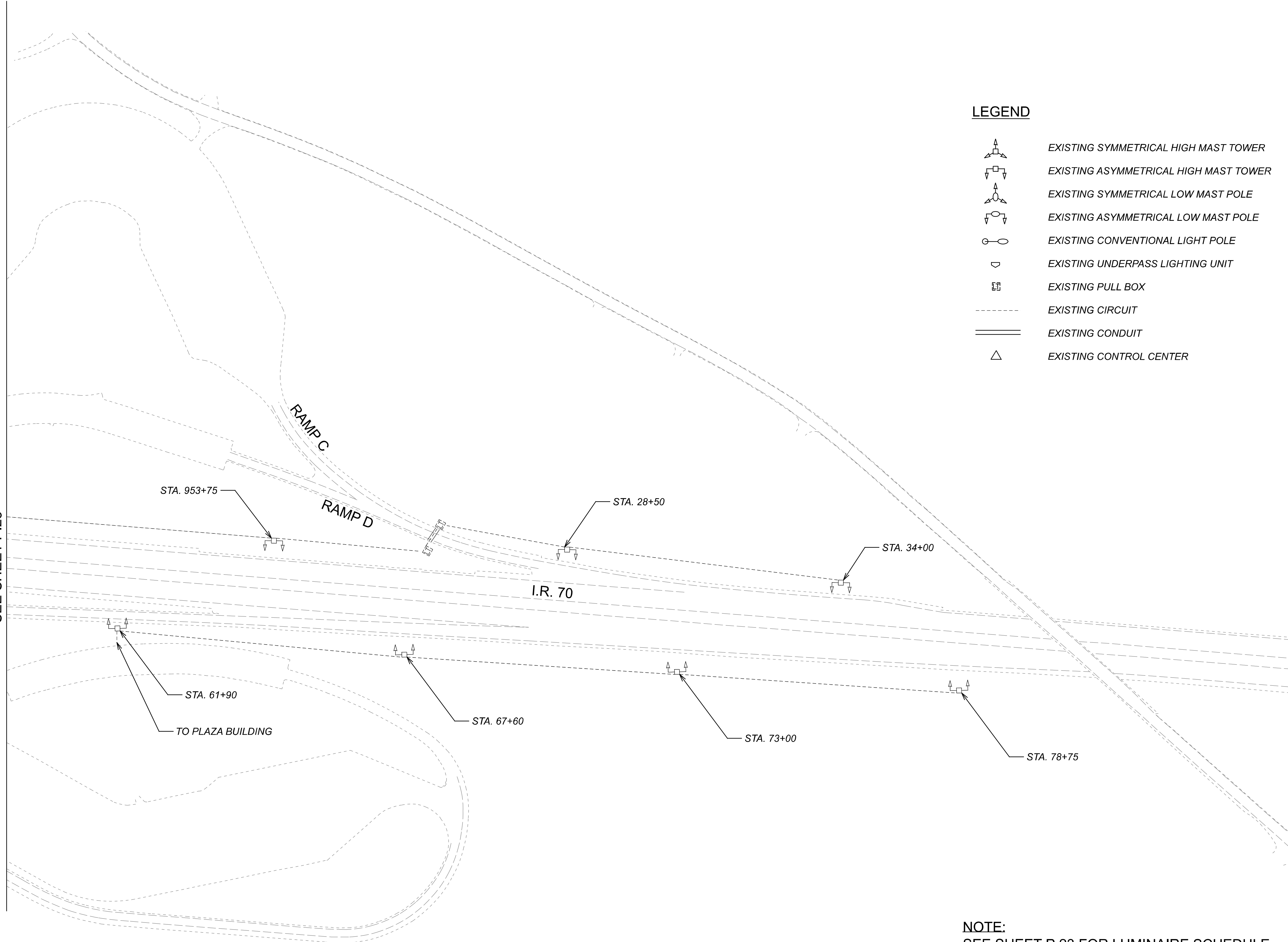
REVIEWER  
SG 03/11/22

PROJECT ID  
112676

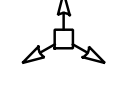
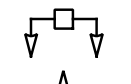
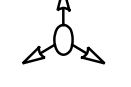
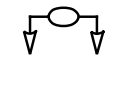
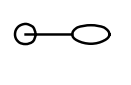
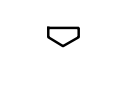

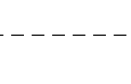
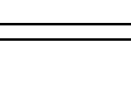

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.23	197

MATCH LINE G-G  
 SEE SHEET P.23













**LEGEND**

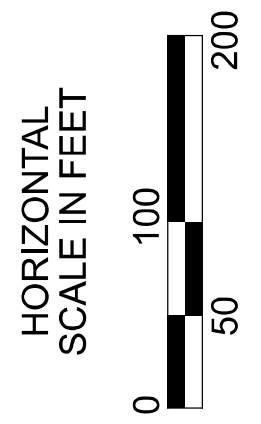
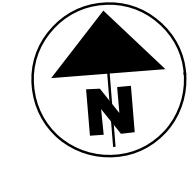
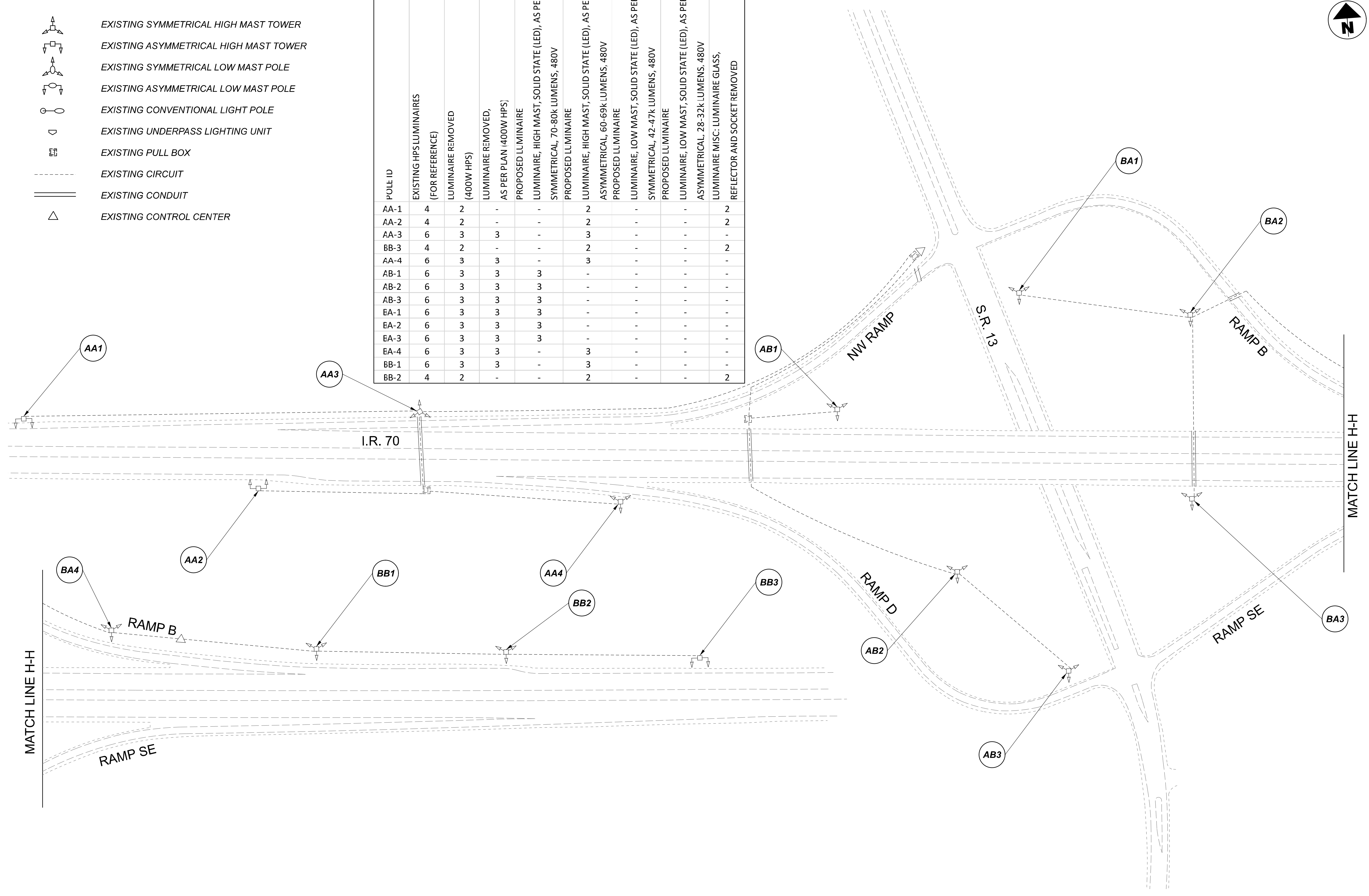
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.23 FOR LUMINAIRE SCHEDULE

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	2	-	-	-	2	-	-	-	2
AA-2	4	2	-	-	-	2	-	-	-	2
AA-3	6	3	3	-	-	3	-	-	-	-
BB-3	4	2	-	-	-	2	-	-	-	2
AA-4	6	3	3	-	-	3	-	-	-	-
AB-1	6	3	3	3	-	-	-	-	-	-
AB-2	6	3	3	3	-	-	-	-	-	-
AB-3	6	3	3	3	-	-	-	-	-	-
EA-1	6	3	3	3	-	-	-	-	-	-
EA-2	6	3	3	3	-	-	-	-	-	-
EA-3	6	3	3	3	-	-	-	-	-	-
EA-4	6	3	3	-	-	3	-	-	-	-
BB-1	6	3	3	-	-	3	-	-	-	-
BB-2	4	2	-	-	-	2	-	-	-	2



Lighting Plan - Location 6  
I-70 and S.R. 13

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.25	197

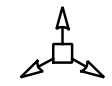
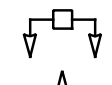
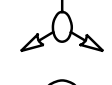
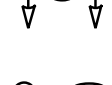


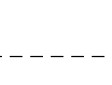
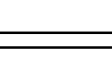

D05-Lighting Upgrade FY2021

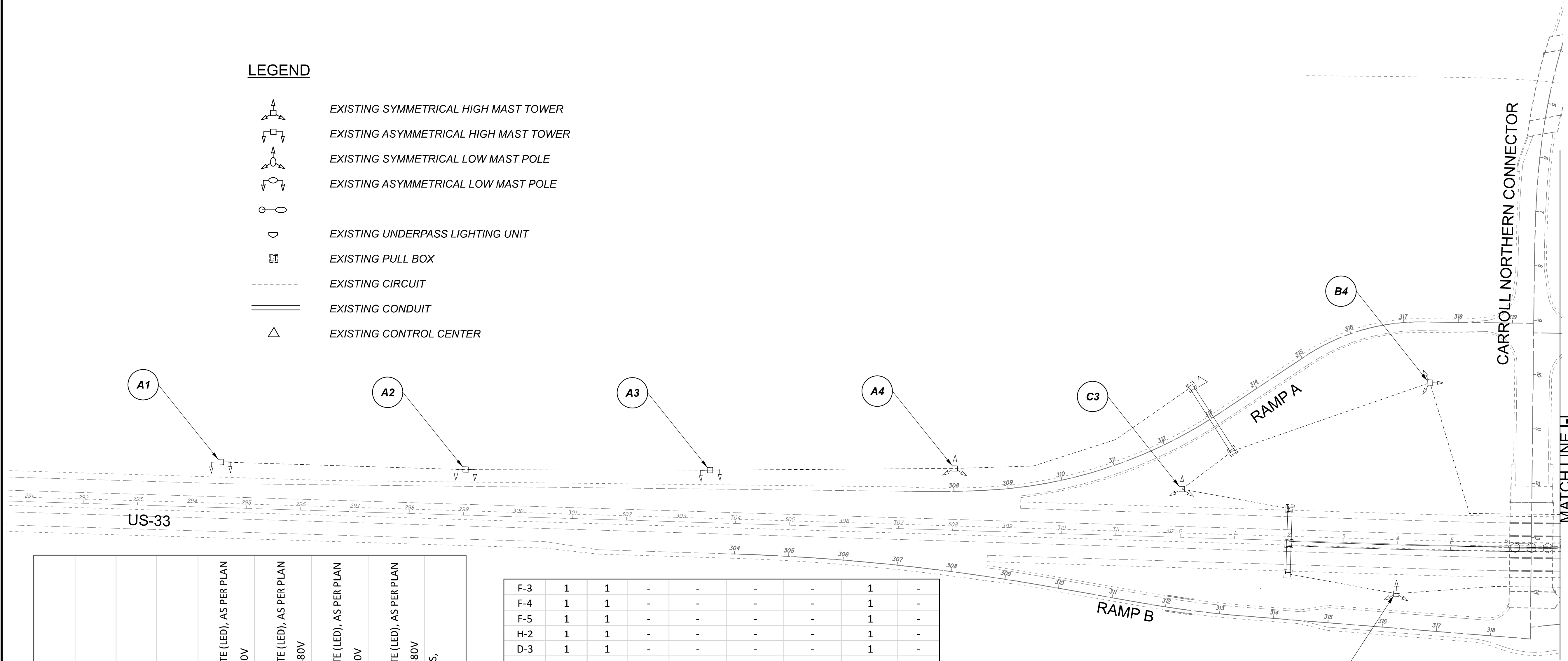
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	-
A-2	4	2	-	-	-	2	-	-	-	-	2	-
A-3	4	2	-	-	-	2	-	-	-	-	2	-
A-4	6	3	3	3	-	-	-	-	-	-	-	-
C-3	6	3	3	3	-	-	-	-	-	-	-	-
C-2	6	3	3	3	-	-	-	-	-	-	-	-
C-1	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-1	4	2	-	2	-	-	-	-	-	-	2	-
F-1	1	1	-	-	-	1	-	-	-	-	-	-
D-1	1	1	-	-	-	1	-	-	-	-	-	-
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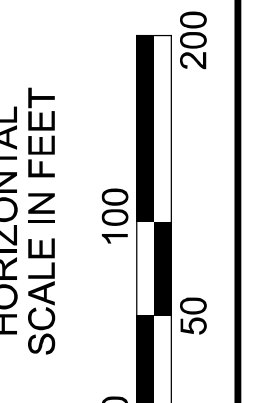
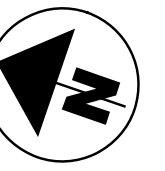
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F-4	1	1	-	-	-	-	1	-
F-5	1	1	-	-	-	-	1	-
H-2	1	1	-	-	-	-	1	-
D-3	1	1	-	-	-	-	1	-
D-4	1	1	-	-	-	-	1	-
D-5	1	1	-	-	-	-	1	-
D-6	1	1	-	-	-	-	1	-
H-1	1	1	-	-	-	-	1	-
H-2	1	1	-	-	-	-	1	-
G-10	1	1	-	-	-	-	1	-
G-9	1	1	-	-	-	-	1	-
G-8	1	1	-	-	-	-	1	-
G-7	1	1	-	-	-	-	1	-
G-6	1	1	-	-	-	-	1	-
G-5	1	1	-	-	-	-	1	-
G-4	1	1	-	-	-	-	1	-
G-3	1	1	-	-	-	-	1	-
G-2	1	1	-	-	-	-	1	-
G-1	1	1	-	-	-	-	1	-
E-6	1	1	-	-	-	-	1	-
E-5	1	1	-	-	-	-	1	-
E-4	1	1	-	-	-	-	1	-
E-3	1	1	-	-	-	-	1	-
E-2	1	1	-	-	-	-	1	-
E-1	1	1	-	-	-	-	1	-
E-7	1	1	-	-	-	-	1	-
E-8	1	1	-	-	-	-	1	-
E-9	1	1	-	-	-	-	1	-
E-10	1	1	-	-	-	-	1	-
E-11	1	1	-	-	-	-	1	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCHLINE |  
SEE SHEET P.27



Lighting Plan - Location 7  
US-33 and Carroll Interchange

DESIGN AGENCY



DESIGNER  
VN

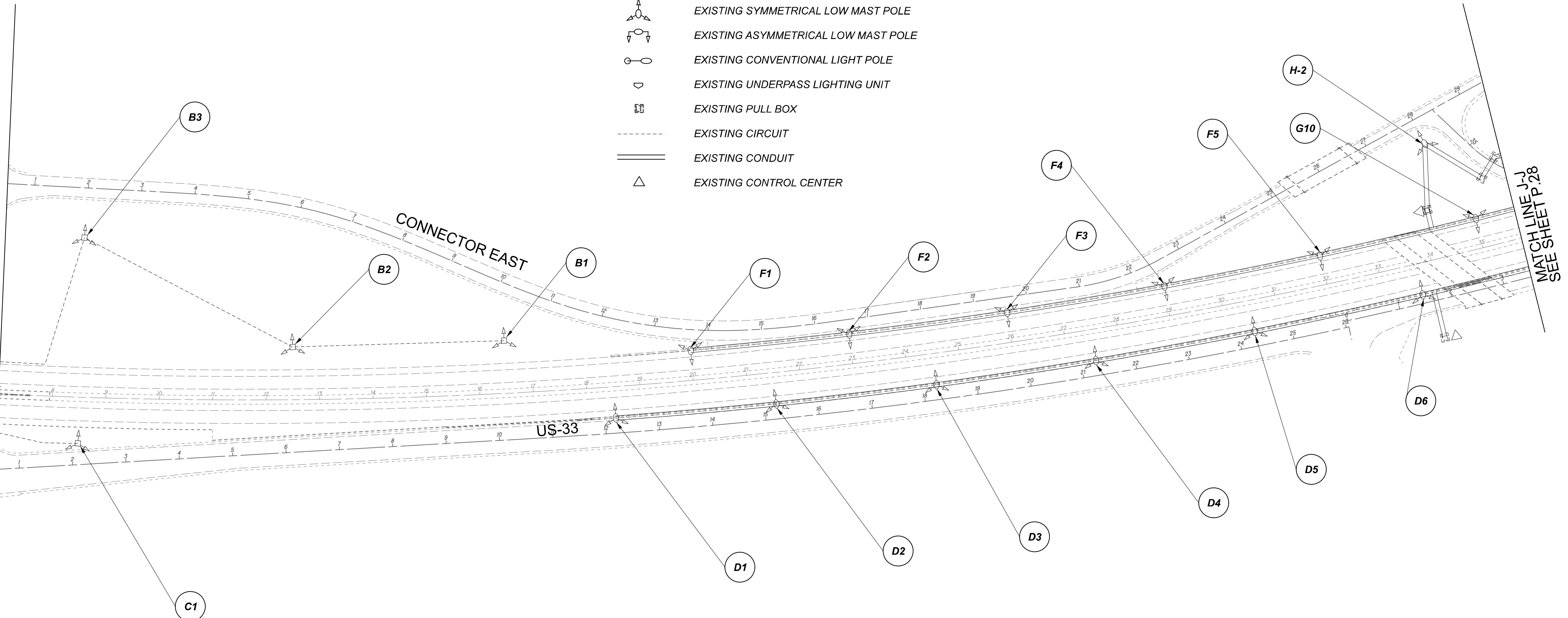
REVIEWER  
SG 03/11/22

PROJECT ID  
112676


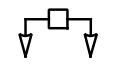
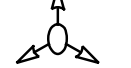
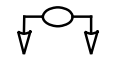
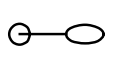


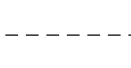
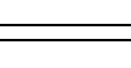

SUBSET	TOTAL
1	3

SHEET	TOTAL
P.26	197

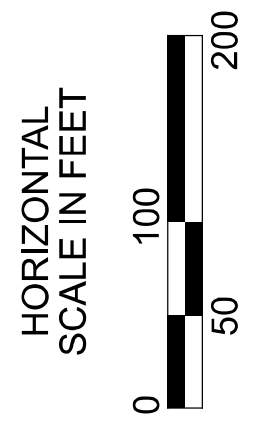
MATCH LINE I-I, SEE SHEET P.26



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTE:  
SEE SHEET P.26 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 7  
US-33 and Carroll Interchange

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

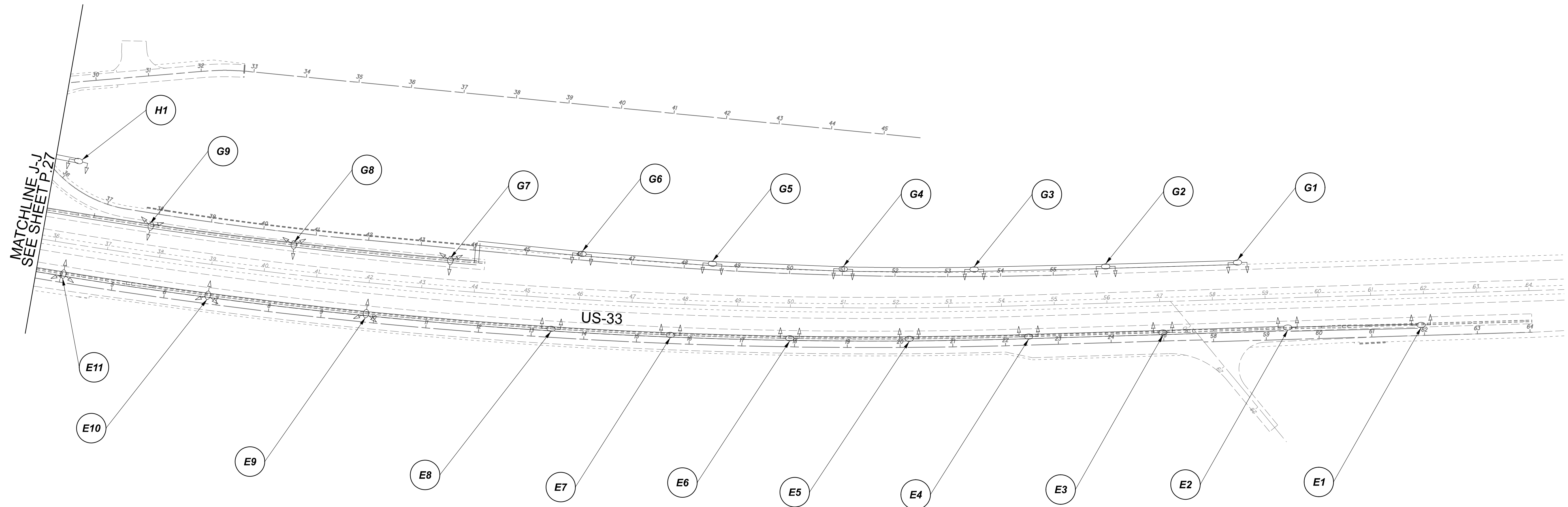
PROJECT ID  
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SUBSET	TOTAL
2	3

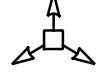
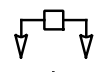
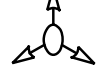
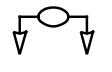
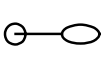


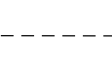
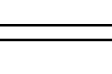

SHEET	TOTAL
P.27	197

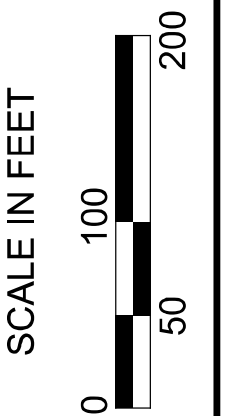
D05-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 7  
 US-33 and Carroll Interchange

DESIGN AGENCY

**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

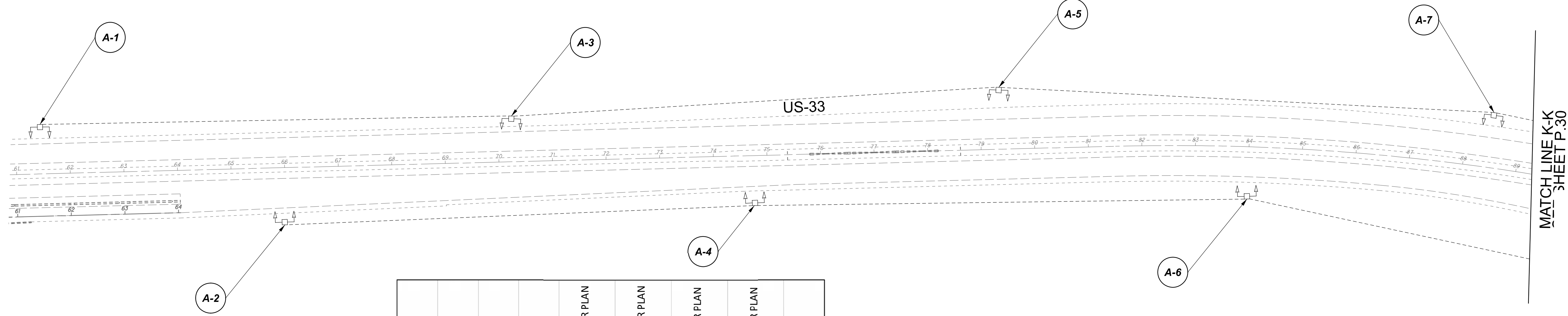
SUBSET	TOTAL
3	3

SHEET	TOTAL
P.28	197

**NOTE:**  
 SEE SHEET P.26 FOR LUMINAIRE SCHEDULE

D05-Lighting Upgrade FY2021

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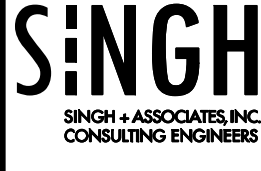


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	2
A-2	4	2	-	-	-	2	-	-	-	-	2	2
A-3	4	2	-	-	-	2	-	-	-	-	2	2
A-4	4	2	-	-	-	2	-	-	-	-	2	2
A-5	4	2	-	-	-	2	-	-	-	-	2	2
A-6	4	2	-	-	-	2	-	-	-	-	2	2
A-7	4	2	-	-	-	2	-	-	-	-	2	2
A-8	4	2	-	-	-	2	-	-	-	-	2	2
A-9	4	2	-	-	-	2	-	-	-	-	2	2
A-10	6	3	3	3	-	-	-	-	-	-	-	-
A-11	4	2	-	-	-	2	-	-	-	-	2	2
B-1	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	4	2	-	-	-	2	-	-	-	-	2	2
B-5	4	2	-	-	-	2	-	-	-	-	2	2



Lighting Plan - Location 8  
 US-33 and Columbus Lancaster Road

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

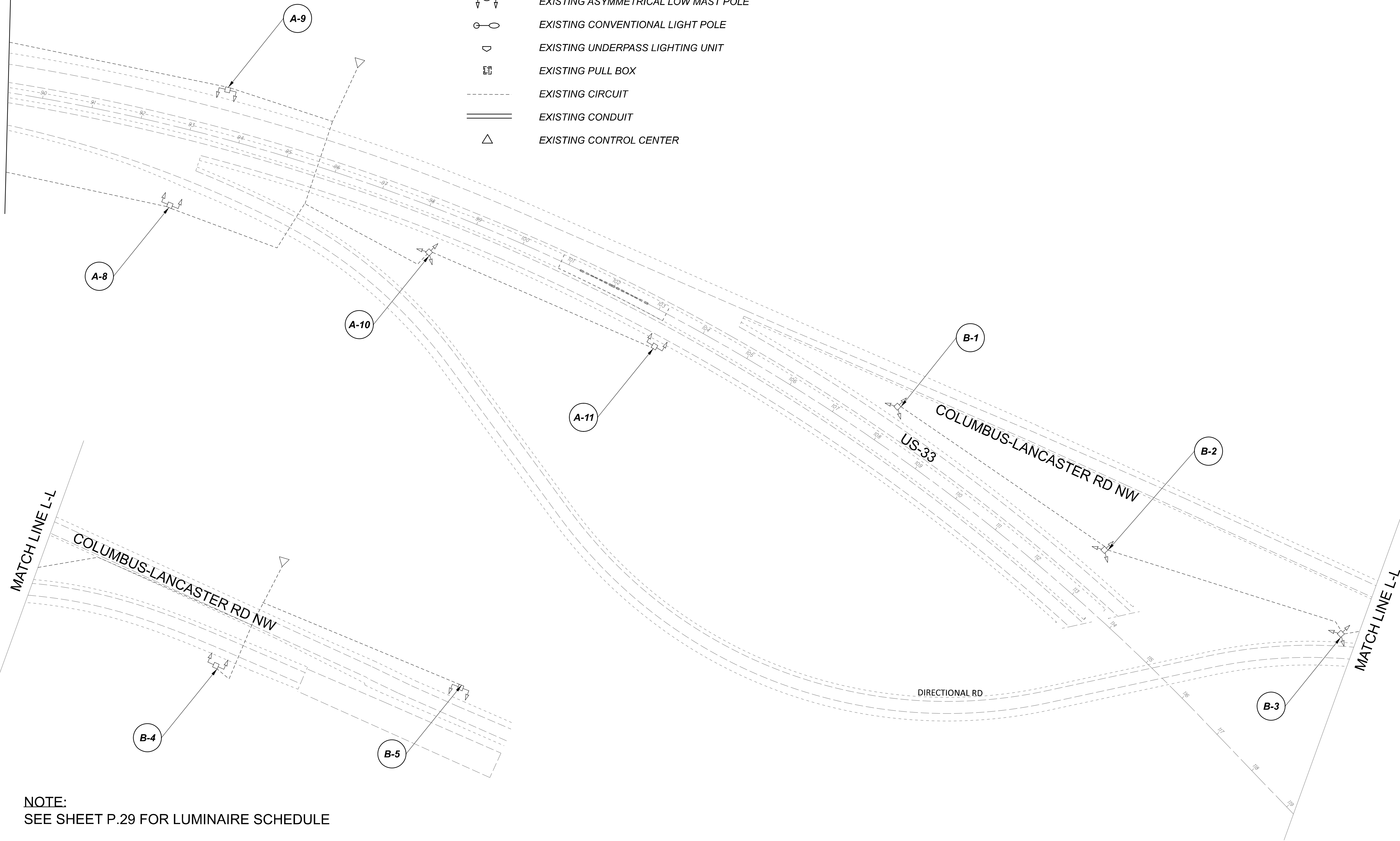
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.29	197

D05-Lighting Upgrade FY2021


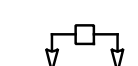

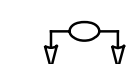
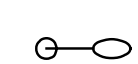


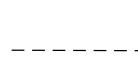
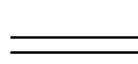

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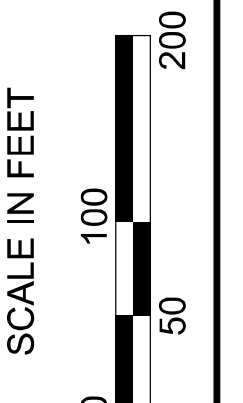
MATCH LINE K-K  
SEE SHEET P.29



NOTE:  
SEE SHEET P.29 FOR LUMINAIRE SCHEDULE

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 8  
US-33 and Columbus Lancaster Road

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.30	197


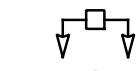
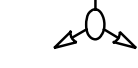
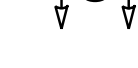
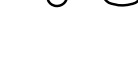


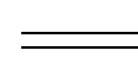
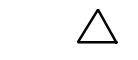



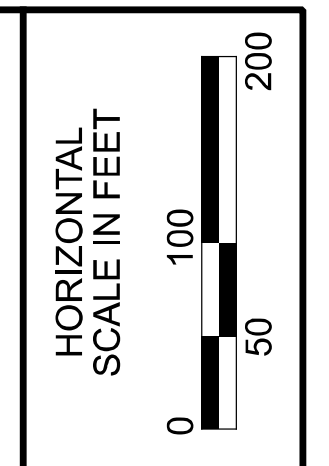
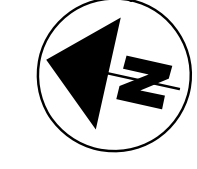
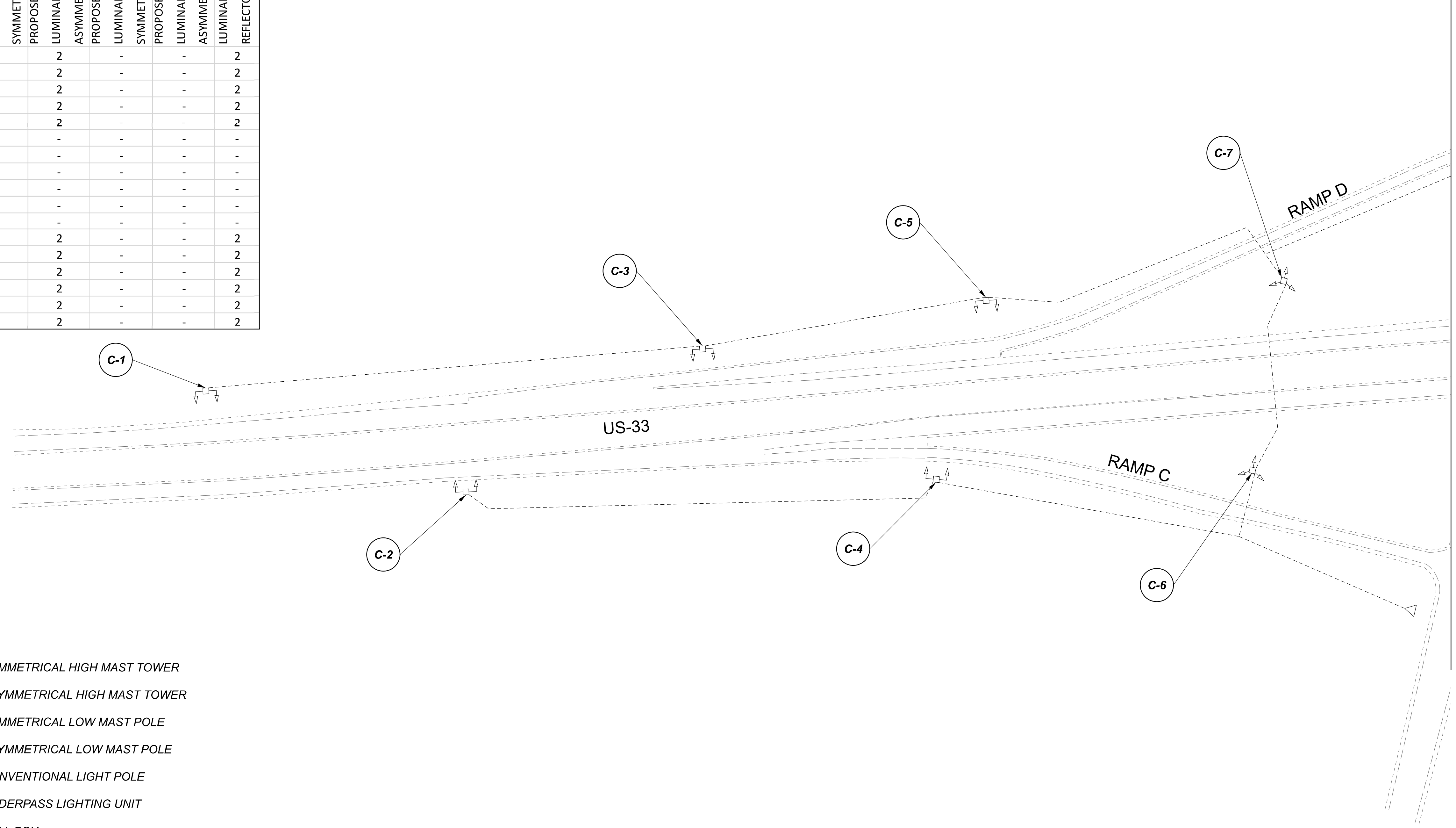
D05-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C-1	4	2	-	-	-	2	-	-	-	-	-	2
C-2	4	2	-	-	-	2	-	-	-	-	-	2
C-3	4	2	-	-	-	2	-	-	-	-	-	2
C-4	4	2	-	-	-	2	-	-	-	-	-	2
C-5	4	2	-	-	-	2	-	-	-	-	-	2
C-6	6	3	3	3	3	-	-	-	-	-	-	-
C-7	6	3	3	3	3	-	-	-	-	-	-	-
C-8	6	3	3	3	3	-	-	-	-	-	-	-
D-1	6	3	3	3	3	-	-	-	-	-	-	-
D-2	6	3	3	3	3	-	-	-	-	-	-	-
D-3	6	3	3	3	3	-	-	-	-	-	-	-
D-4	4	2	-	-	-	2	-	-	-	-	-	2
D-5	4	2	-	-	-	2	-	-	-	-	-	2
D-6	4	2	-	-	-	2	-	-	-	-	-	2
D-7	4	2	-	-	-	2	-	-	-	-	-	2
D-8	4	2	-	-	-	2	-	-	-	-	-	2
D-9	4	2	-	-	-	2	-	-	-	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

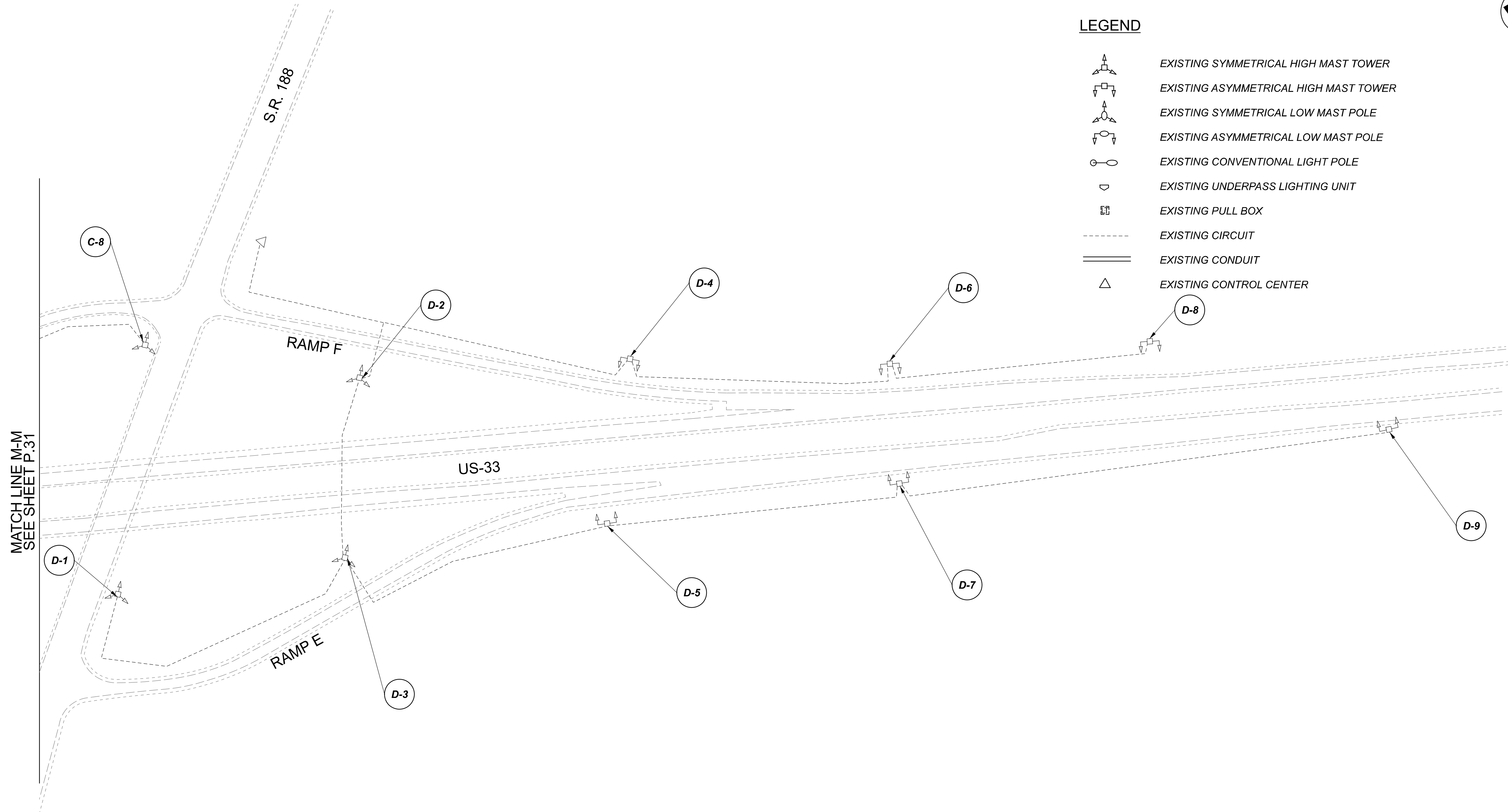


Lighting Plan - Location 9  
US-33 and S.R. 188

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.31	197

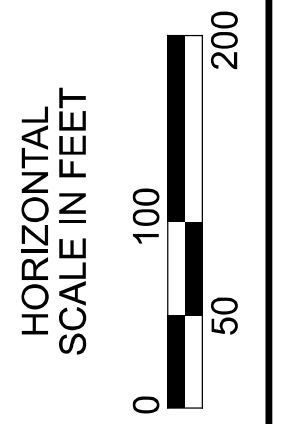
D05-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 11:27 PM USER: vnunes  
 p:\vhilodot-pv\berriey\oamhohdot-pv-02\Documents\01\Active Projects\Statewide\12676\101-Engineering\_Sign\Associates\Lighting\Sheets\12676\_L.P08.dgn



MATCH LINE M-M  
SEE SHEET P.31

- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
  - EXISTING ASYMMETRICAL HIGH MAST TOWER
  - EXISTING SYMMETRICAL LOW MAST POLE
  - EXISTING ASYMMETRICAL LOW MAST POLE
  - EXISTING CONVENTIONAL LIGHT POLE
  - EXISTING UNDERPASS LIGHTING UNIT
  - EXISTING PULL BOX
  - EXISTING CIRCUIT
  - EXISTING CONDUIT
  - EXISTING CONTROL CENTER



Lighting Plan - Location 9  
US-33 and S.R. 188

**NOTE:**  
SEE SHEET P.31 FOR LUMINAIRE SCHEDULE











DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.32	197

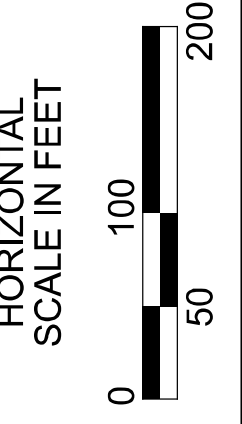
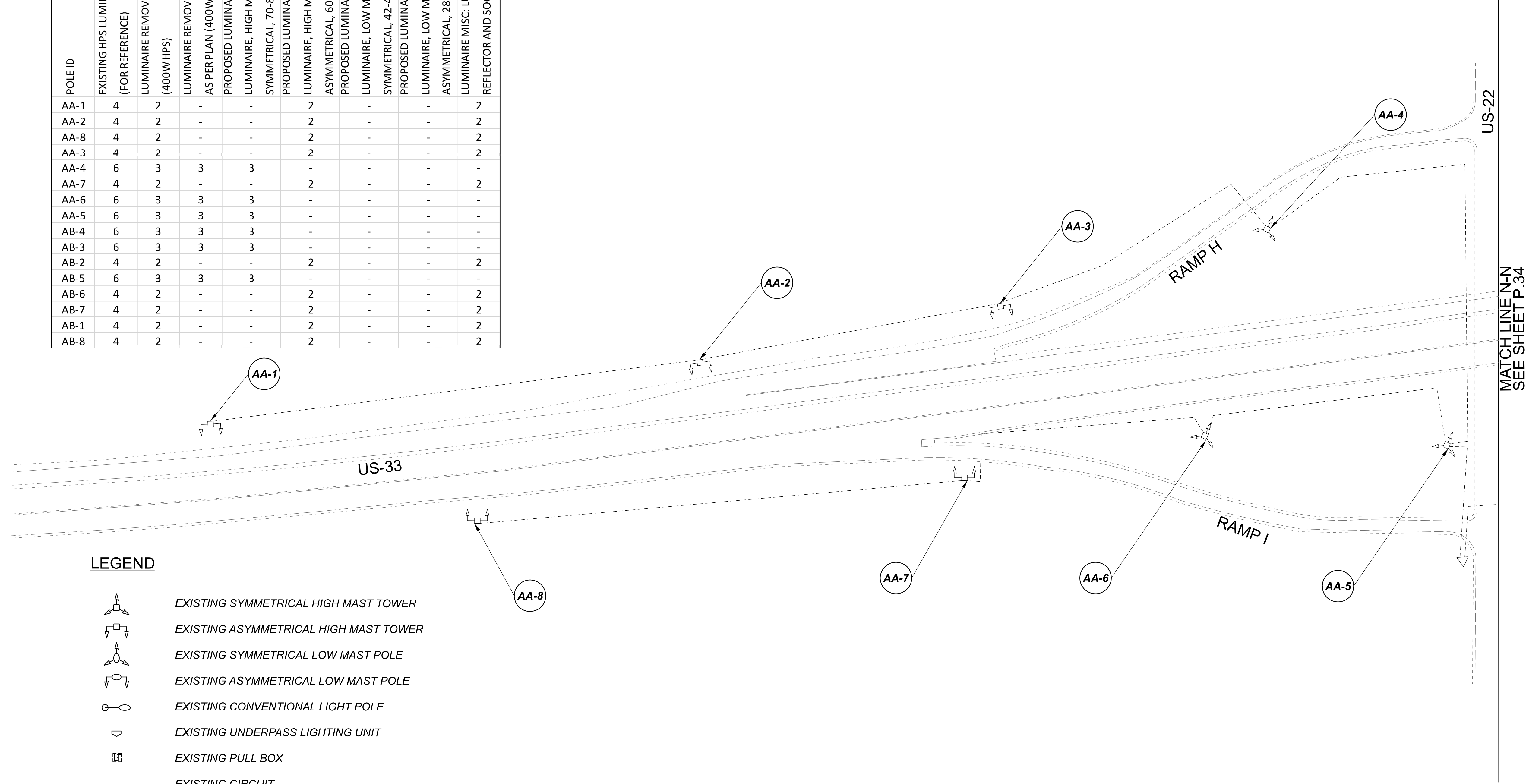
D05-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	2	-	-	-	2	-	-	-	-	2	-
AA-2	4	2	-	-	-	2	-	-	-	-	2	-
AA-8	4	2	-	-	-	2	-	-	-	-	2	-
AA-3	4	2	-	-	-	2	-	-	-	-	2	-
AA-4	6	3	3	3	-	-	-	-	-	-	-	-
AA-7	4	2	-	-	-	2	-	-	-	-	2	-
AA-6	6	3	3	3	-	-	-	-	-	-	-	-
AA-5	6	3	3	3	-	-	-	-	-	-	-	-
AB-4	6	3	3	3	-	-	-	-	-	-	-	-
AB-3	6	3	3	3	-	-	-	-	-	-	-	-
AB-2	4	2	-	-	-	2	-	-	-	-	2	-
AB-5	6	3	3	3	-	-	-	-	-	-	-	-
AB-6	4	2	-	-	-	2	-	-	-	-	2	-
AB-7	4	2	-	-	-	2	-	-	-	-	2	-
AB-1	4	2	-	-	-	2	-	-	-	-	2	-
AB-8	4	2	-	-	-	2	-	-	-	-	2	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 10  
US-33 and US-22

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

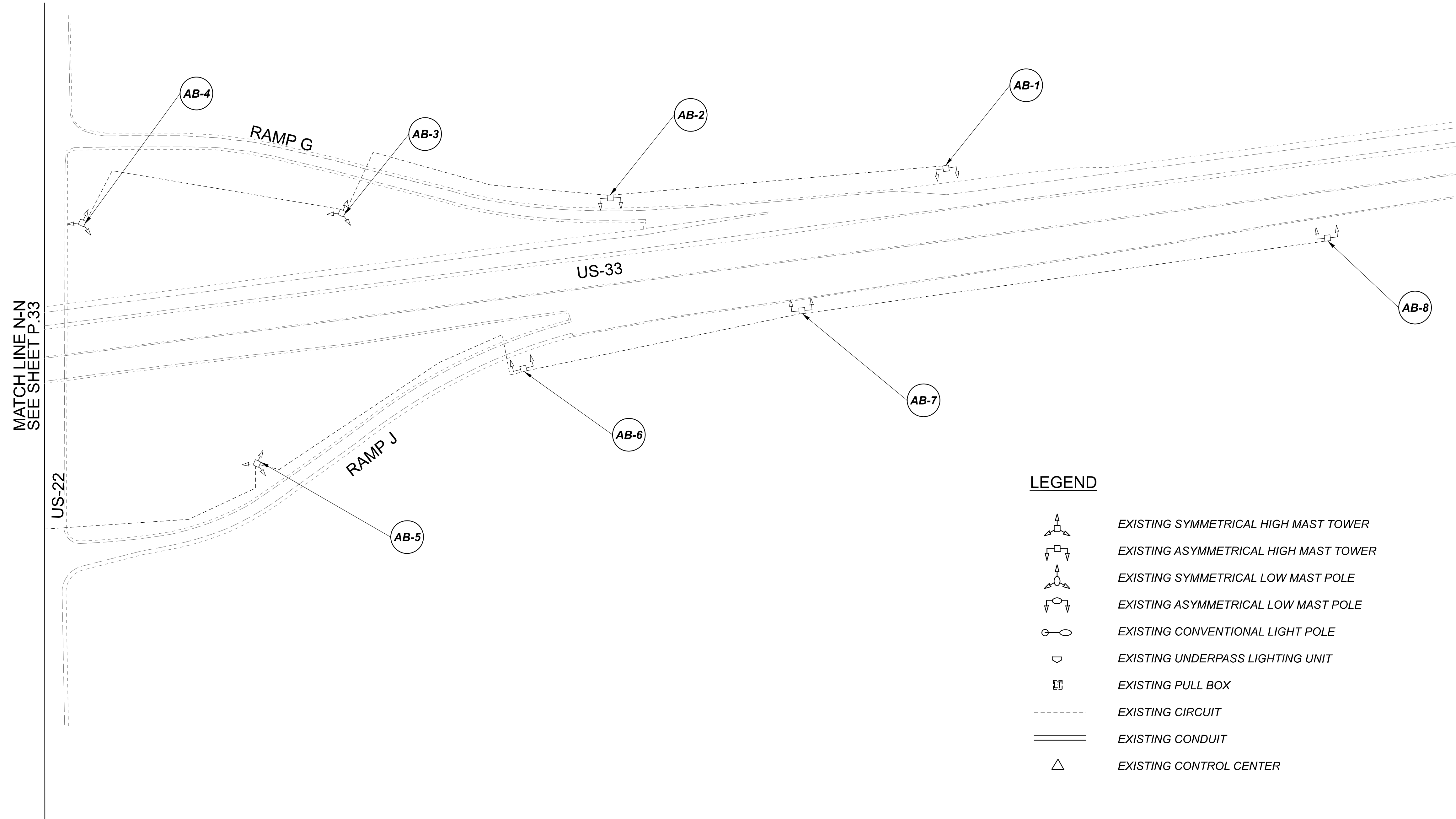
DESIGNER  
VN

REVIEWER  
SG 03/11/22

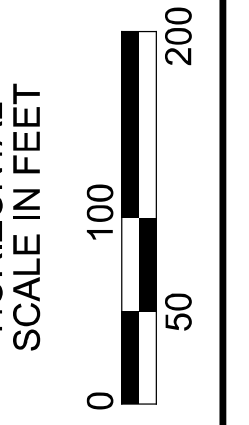
PROJECT ID  
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.33	197



NOTE:  
SEE SHEET P.33 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 10  
US-33 and US-22

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

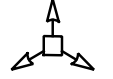
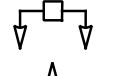
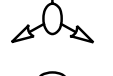



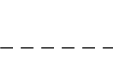
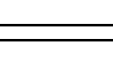


SHEET	TOTAL
P.34	197

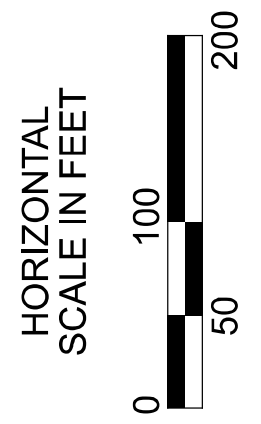
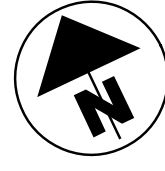
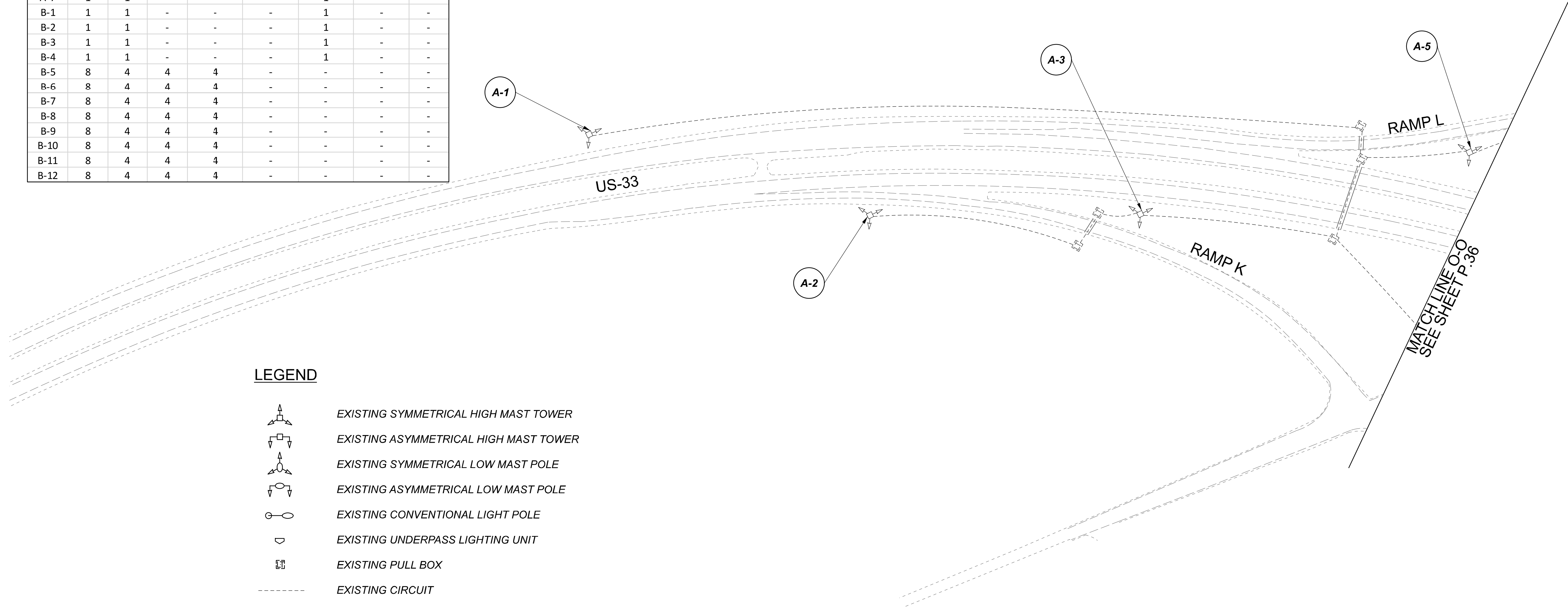
D05-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 11:53 PM USER: vnunez  
 p:\1\h10d01-pv-berriley-oomh0d01-pv-02\Documents\11\Active Projects\Statewide\Statewide\Lighting\Sheets\12676\_L\_P02.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH M/AST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH M/AST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	8	4	4	4								
A-2	8	4	4	4								
A-3	8	4	4	4								
A-4	8	4	4	4								
A-5	8	4	4	4								
A-6	8	4	4	4								
A-7	1	1	-	-				1				
B-1	1	1	-	-				1				
B-2	1	1	-	-				1				
B-3	1	1	-	-				1				
B-4	1	1	-	-				1				
B-5	8	4	4	4								
B-6	8	4	4	4								
B-7	8	4	4	4								
B-8	8	4	4	4								
B-9	8	4	4	4								
B-10	8	4	4	4								
B-11	8	4	4	4								
B-12	8	4	4	4								

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 11  
 US-33 and Tarklin Road

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

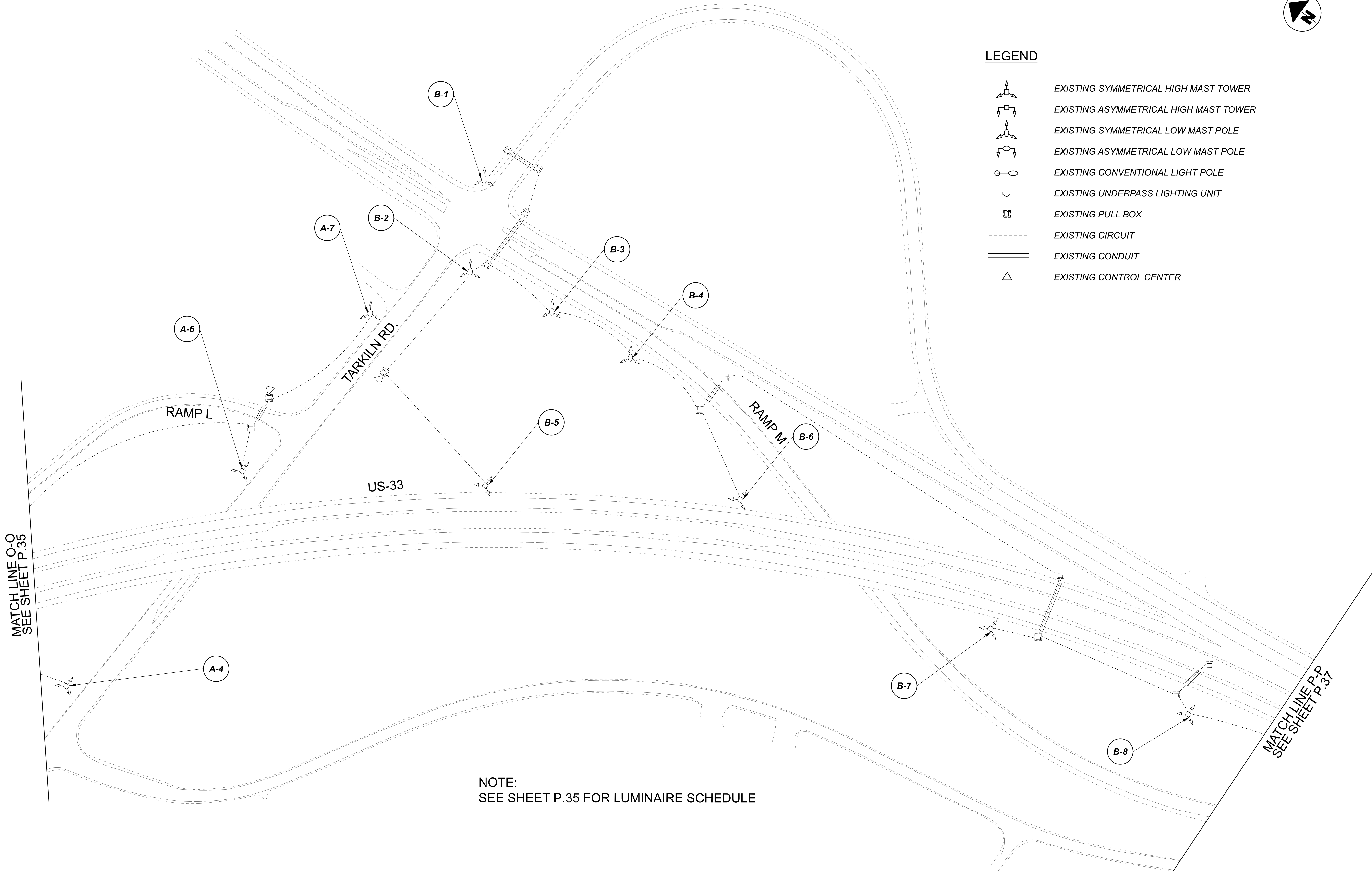
1 3

SHEET TOTAL


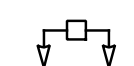
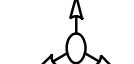
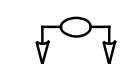
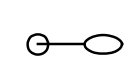


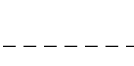
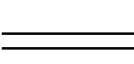

P.35 197

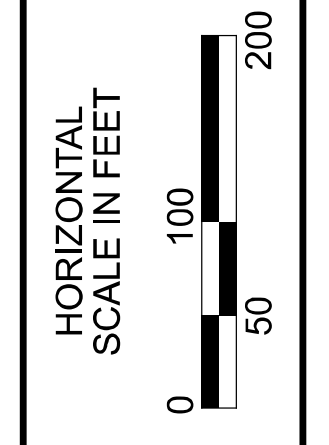
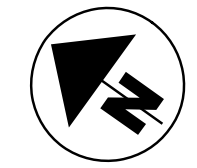
MATCH LINE O-O  
SEE SHEET P.35

MATCH LINE P-P  
SEE SHEET P.37



**LEGEND**

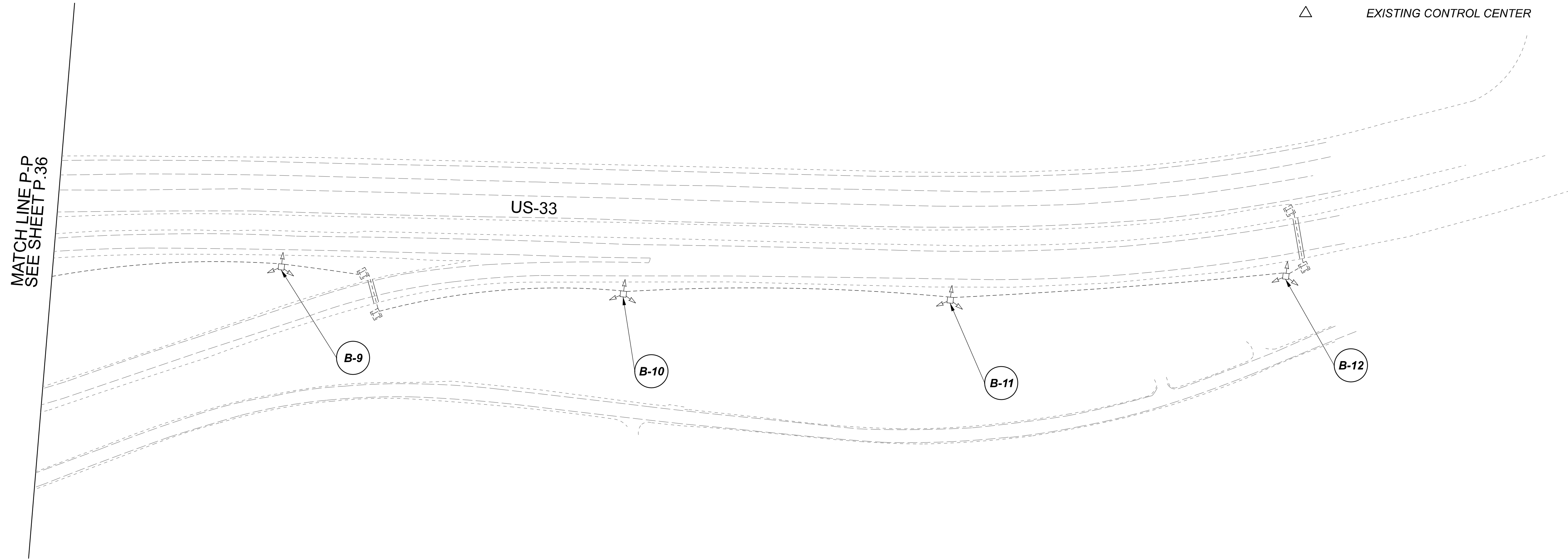
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



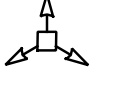
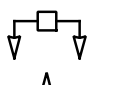
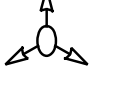
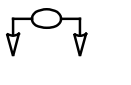
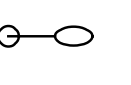



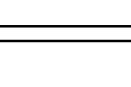

**NOTE:**  
SEE SHEET P.35 FOR LUMINAIRE SCHEDULE

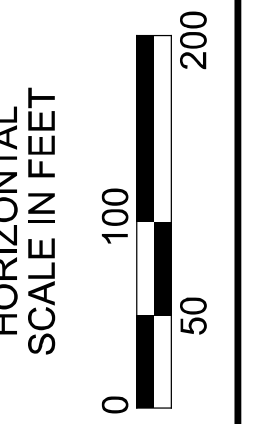
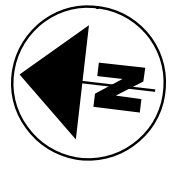
Lighting Plan - Location 11  
US-33 and Tarkiln Road

DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	3
SHEET	TOTAL
P.36	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



NOTE:  
SEE SHEET P.35 FOR LUMINAIRE SCHEDULE

Lighting Plan - Location 11  
US-33 and Tarklin Road

DESIGN AGENCY



DESIGNER  
VN











REVIEWER  
SG 03/11/22

PROJECT ID  
112676

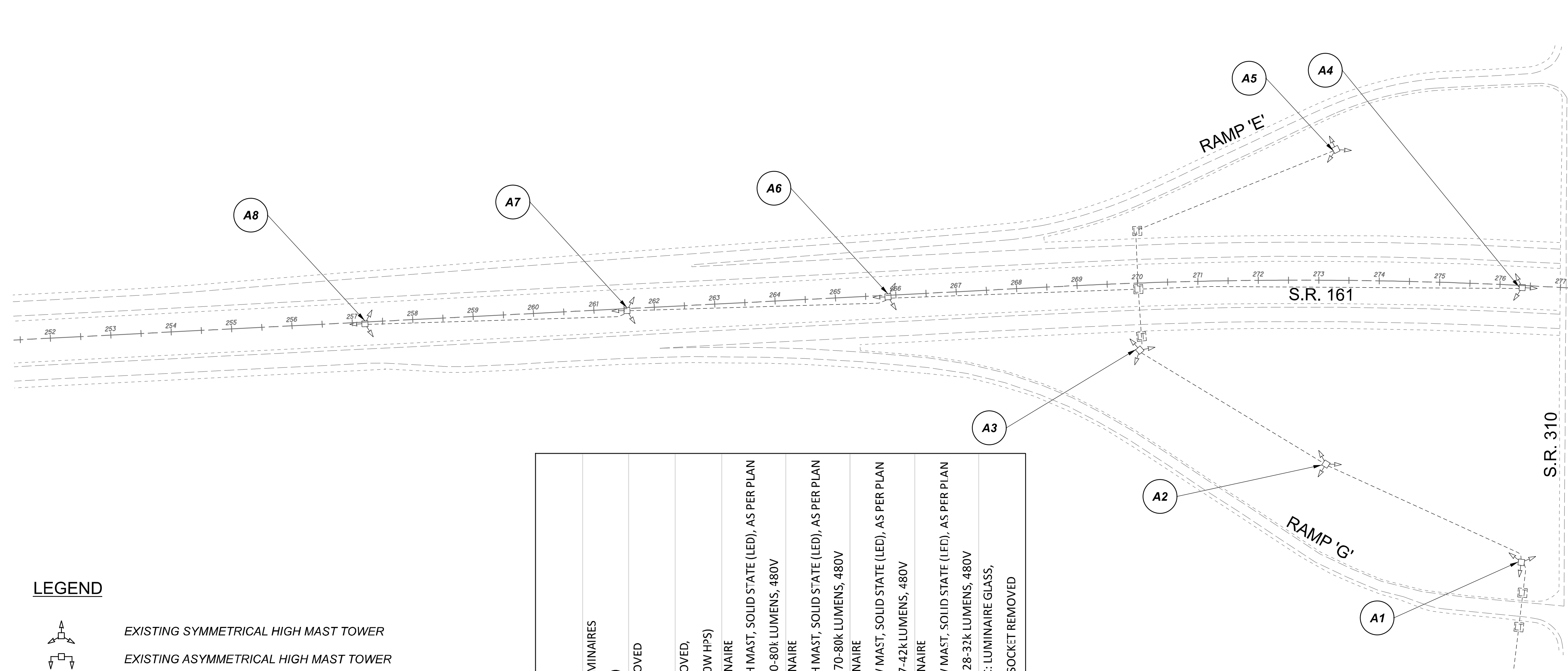
SUBSET	TOTAL
3	3

SHEET	TOTAL
P.37	197

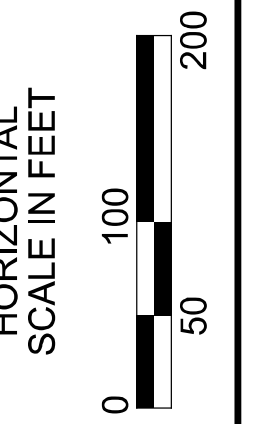
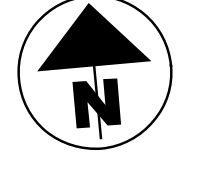
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A8	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A7	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A5	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B4	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B7	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B8	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B9	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2



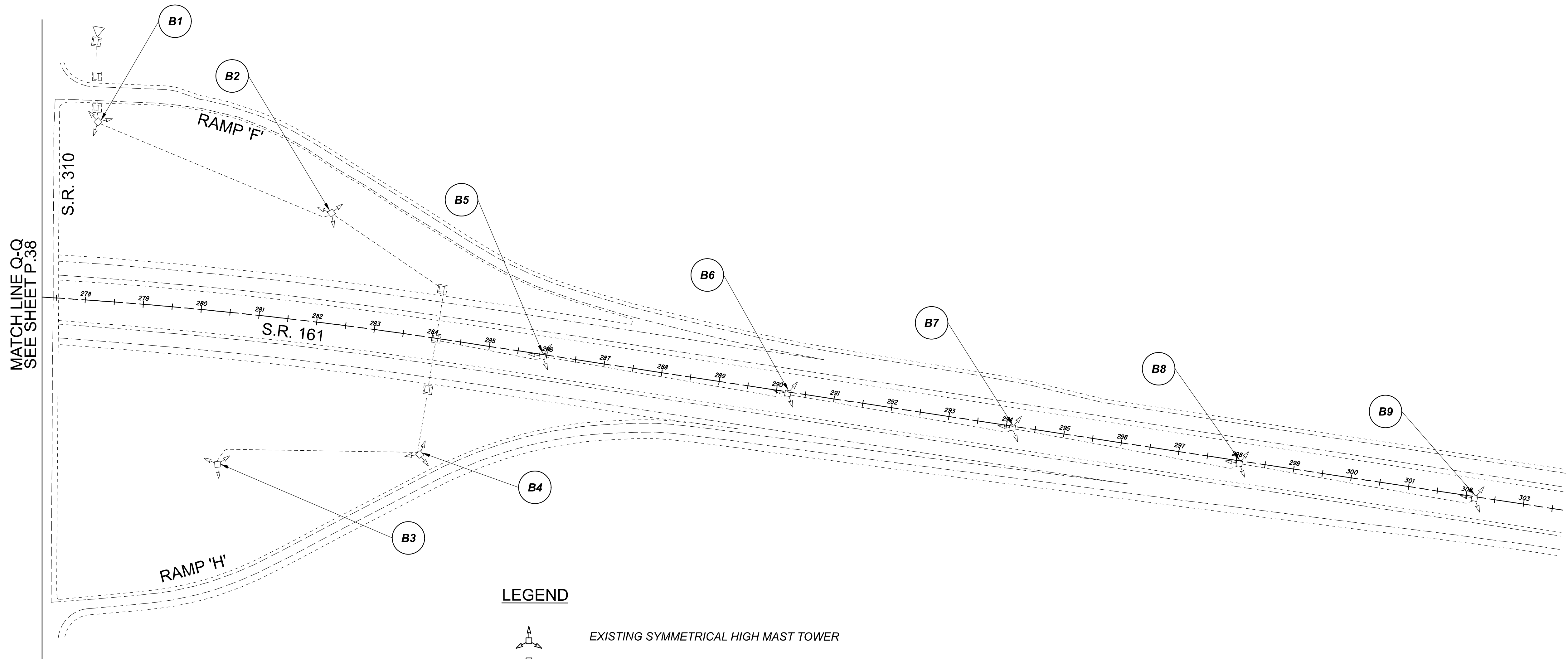
MATCH LINE Q-Q  
SEE SHEET P.39













Lighting Plan - Location 12  
S.R. 161 and S.R. 310

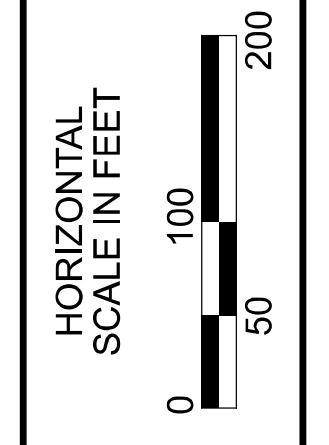
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.38	
TOTAL	
197	





**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



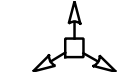
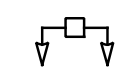
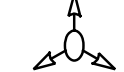
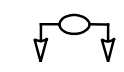
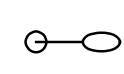



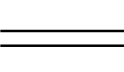

Lighting Plan - Location 12  
 S.R. 161 and S.R. 310

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.39	197

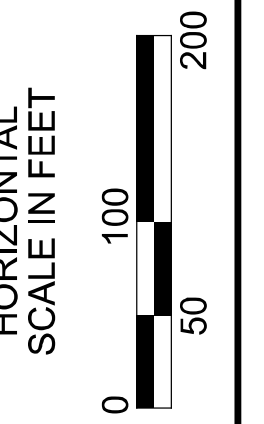
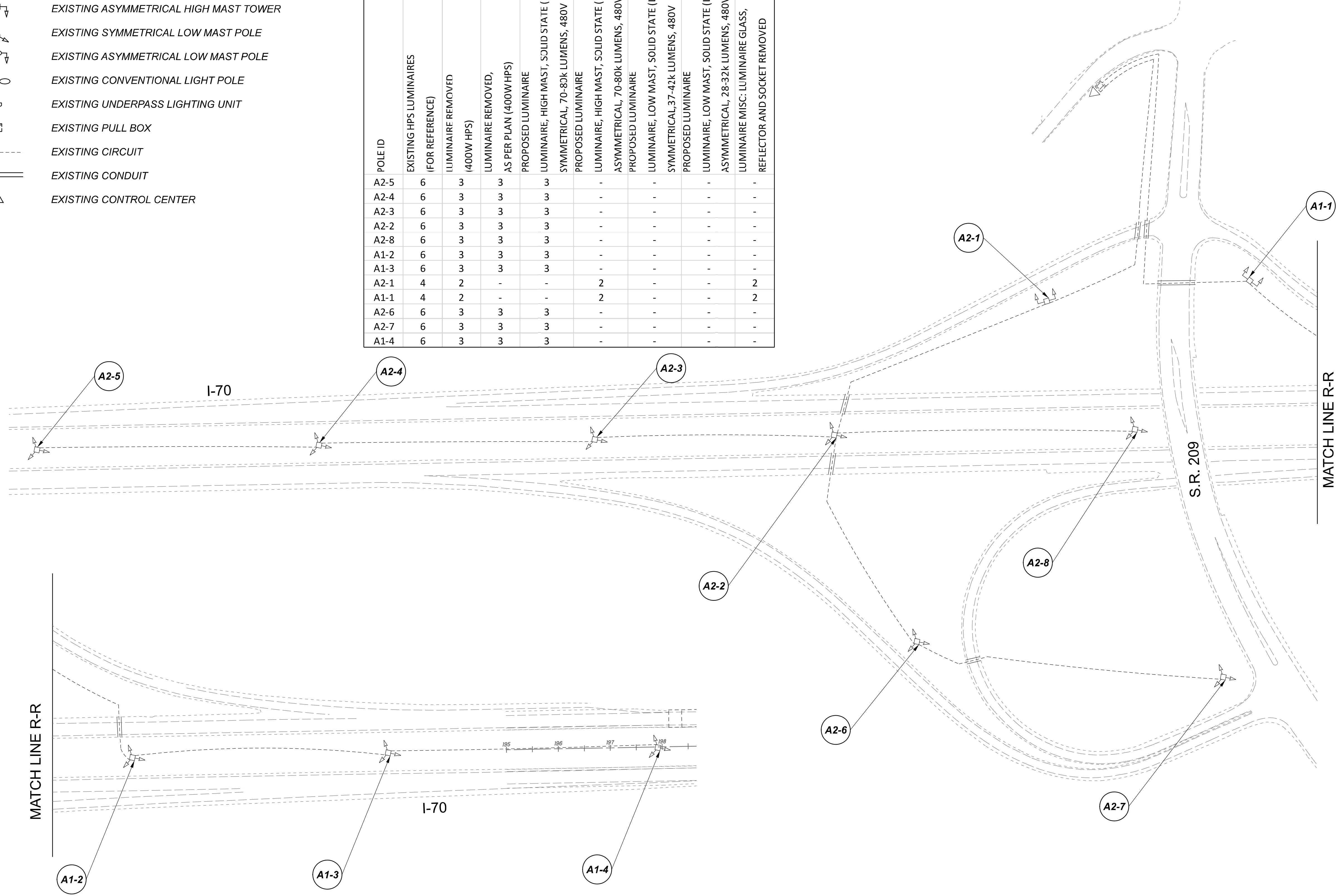
D05-Lighting Upgrade FY2021

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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

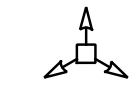
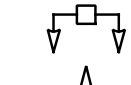
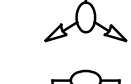
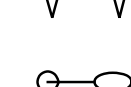


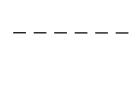
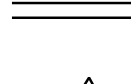


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A2-5	6	3	3	3	-	-	-	-	-	-	-	-
A2-4	6	3	3	3	-	-	-	-	-	-	-	-
A2-3	6	3	3	3	-	-	-	-	-	-	-	-
A2-2	6	3	3	3	-	-	-	-	-	-	-	-
A2-8	6	3	3	3	-	-	-	-	-	-	-	-
A1-2	6	3	3	3	-	-	-	-	-	-	-	-
A1-3	6	3	3	3	-	-	-	-	-	-	-	-
A2-1	4	2	-	-	2	-	-	-	-	-	2	-
A1-1	4	2	-	-	2	-	-	-	-	-	2	-
A2-6	6	3	3	3	-	-	-	-	-	-	-	-
A2-7	6	3	3	3	-	-	-	-	-	-	-	-
A1-4	6	3	3	3	-	-	-	-	-	-	-	-



Lighting Plan - Location 13  
 I-70 and S.R. 209

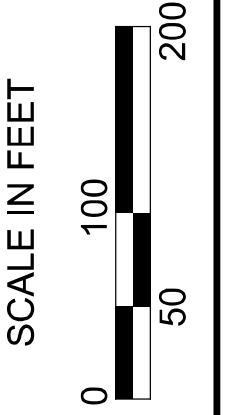
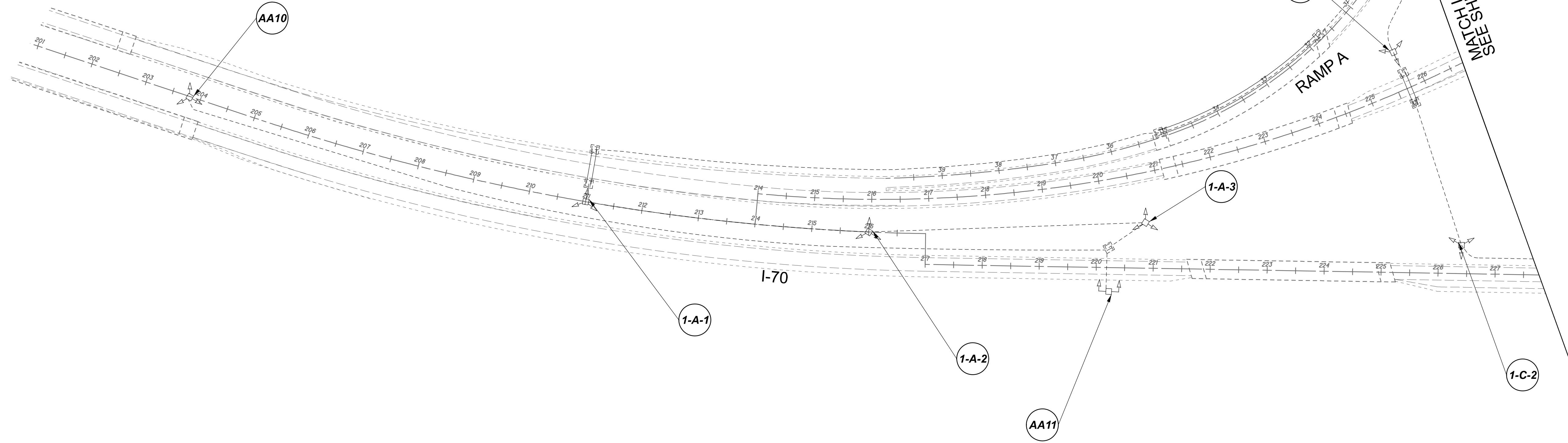
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.40	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HP'S LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-10	6	3	3	3	3	-	-	-	-	-	-	-	-
AA-11	4	2	-	2	-	-	-	-	-	-	-	-	2
1-A-1	6	3	3	3	-	-	-	-	-	-	-	-	-
1-A-2	6	3	3	3	-	-	-	-	-	-	-	-	-
1-A-3	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-3	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-5	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-5	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-4	6	3	3	3	-	-	-	-	-	-	-	-	-
2-F-4	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-1	4	2	-	2	-	-	-	-	-	-	-	-	2

2-E-3	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-2	6	3	3	3	-	-	-	-	-	-	-	-	-
2-E-1	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-5	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-6	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-7	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-3	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-8	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-6	6	3	3	3	-	-	-	-	-	-	-	-	-
1-D-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-3	6	3	3	3	-	-	-	-	-	-	-	-	-
1-D-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-5	4	2	-	2	-	-	-	-	-	-	-	-	2
1-R-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-7	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-5	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-3	6	3	3	3	-	-	-	-	-	-	-	-	-
2-F-2	4	2	-	2	-	-	-	-	-	-	-	-	2
2-G-2	6	3	3	3	-	-	-	-	-	-	-	-	-
2-G-3	6	3	3	3	-	-	-	-	-	-	-	-	-
2-G-1	6	3	3	3	-	-	-	-	-	-	-	-	-
2-H-1	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-H-4	6	3	3	3	-	-	-	-	-	-	-	-	-
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Lighting Plan - Location 14  
I-70 and I-77

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

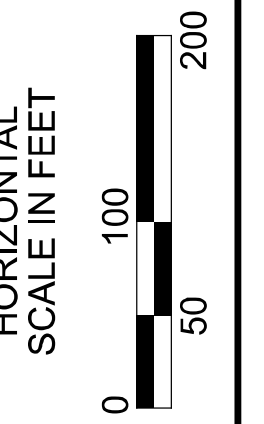
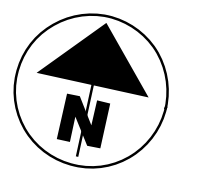
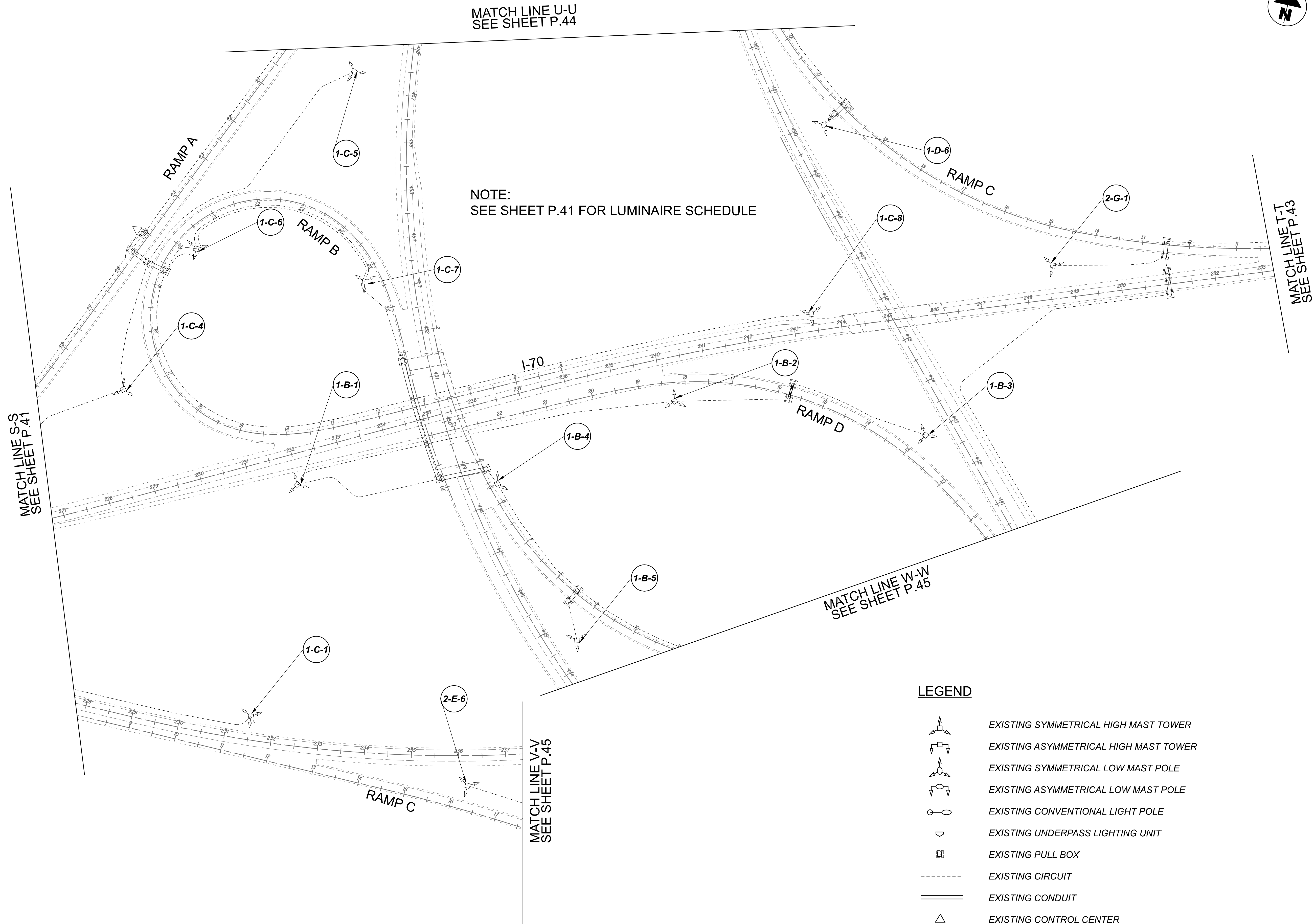
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

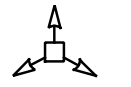
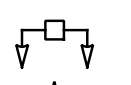
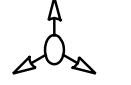
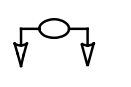
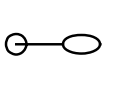



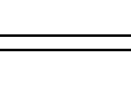

SUBSET	TOTAL
1	5

SHEET	TOTAL
P.41	197

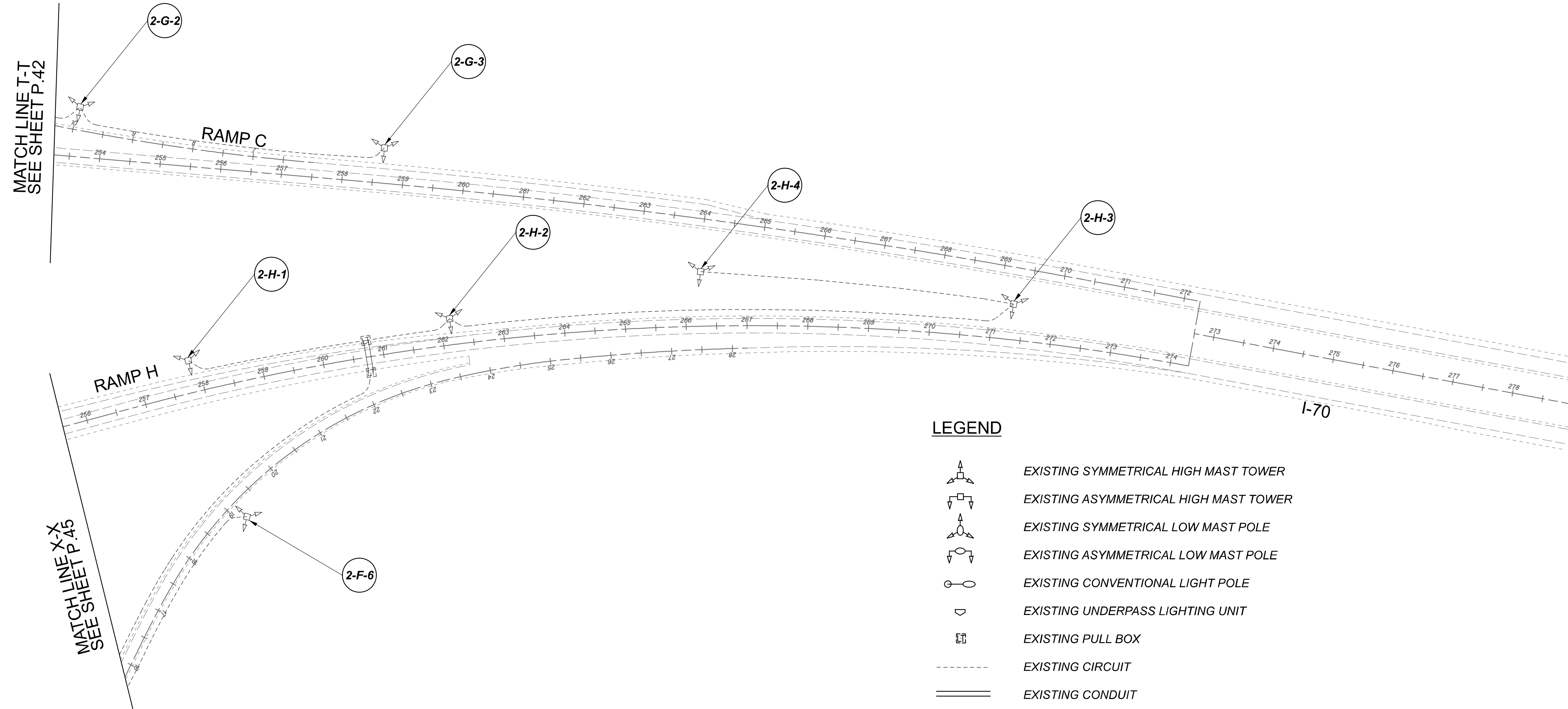


Lighting Plan - Location 14  
I-70 and I-77

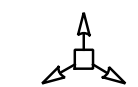
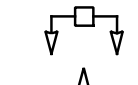
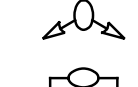
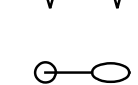






**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

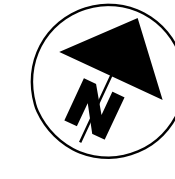
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	5
SHEET	TOTAL
P.42	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.41 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 14  
 I-70 and I-77

DESIGN AGENCY



DESIGNER  
 VN

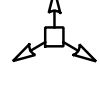
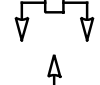
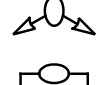
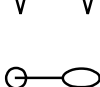
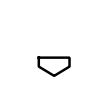

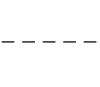
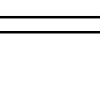


REVIEWER  
 SG 03/11/22

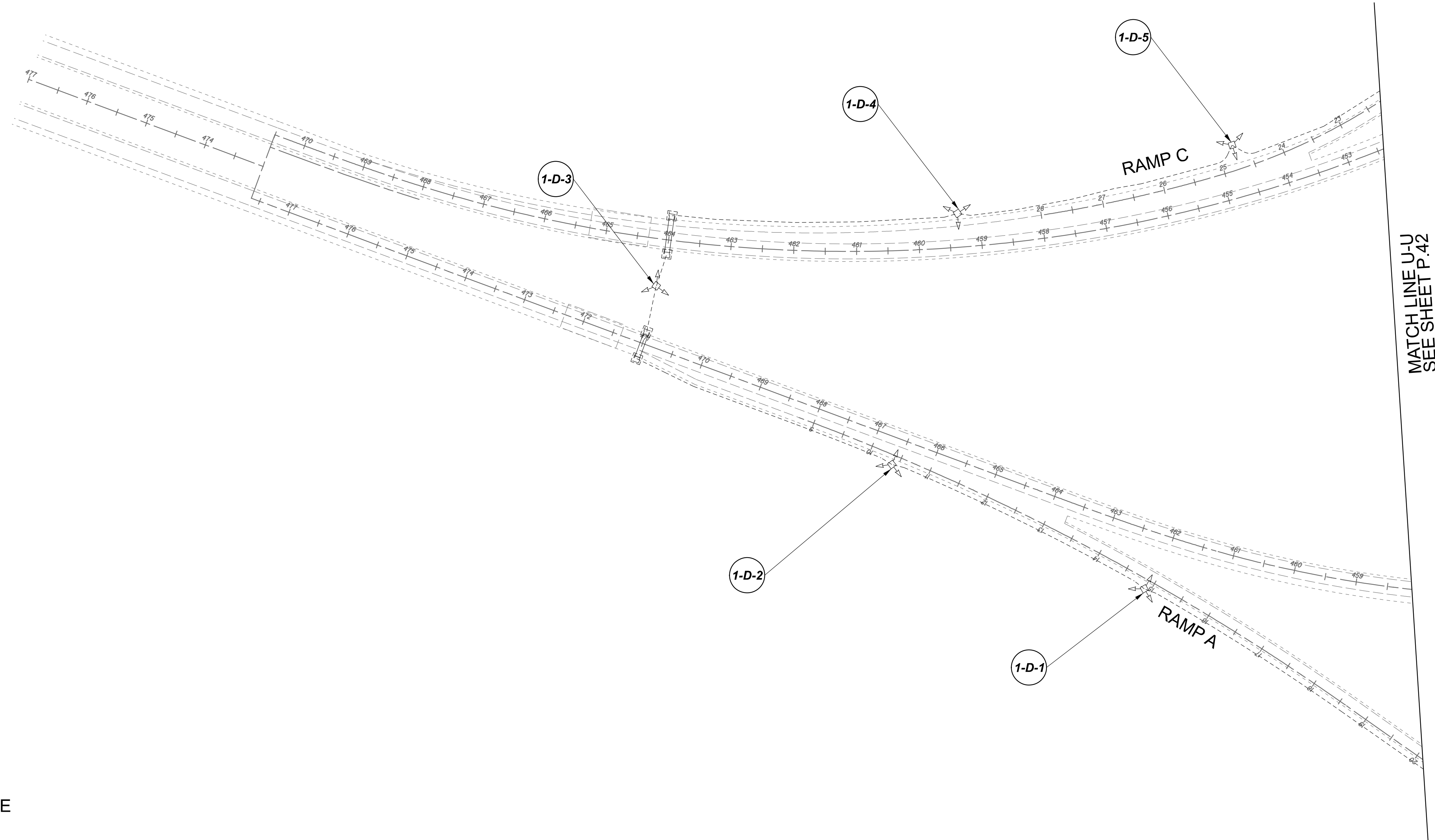
PROJECT ID  
 112676

SUBSET	TOTAL
3	5

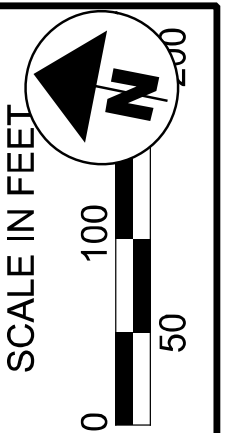
SHEET	TOTAL
P.43	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



NOTE:  
 SEE SHEET P.42 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 14  
 I-70 and I-77

DESIGN AGENCY

**SINGH**  
 SINGH + ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

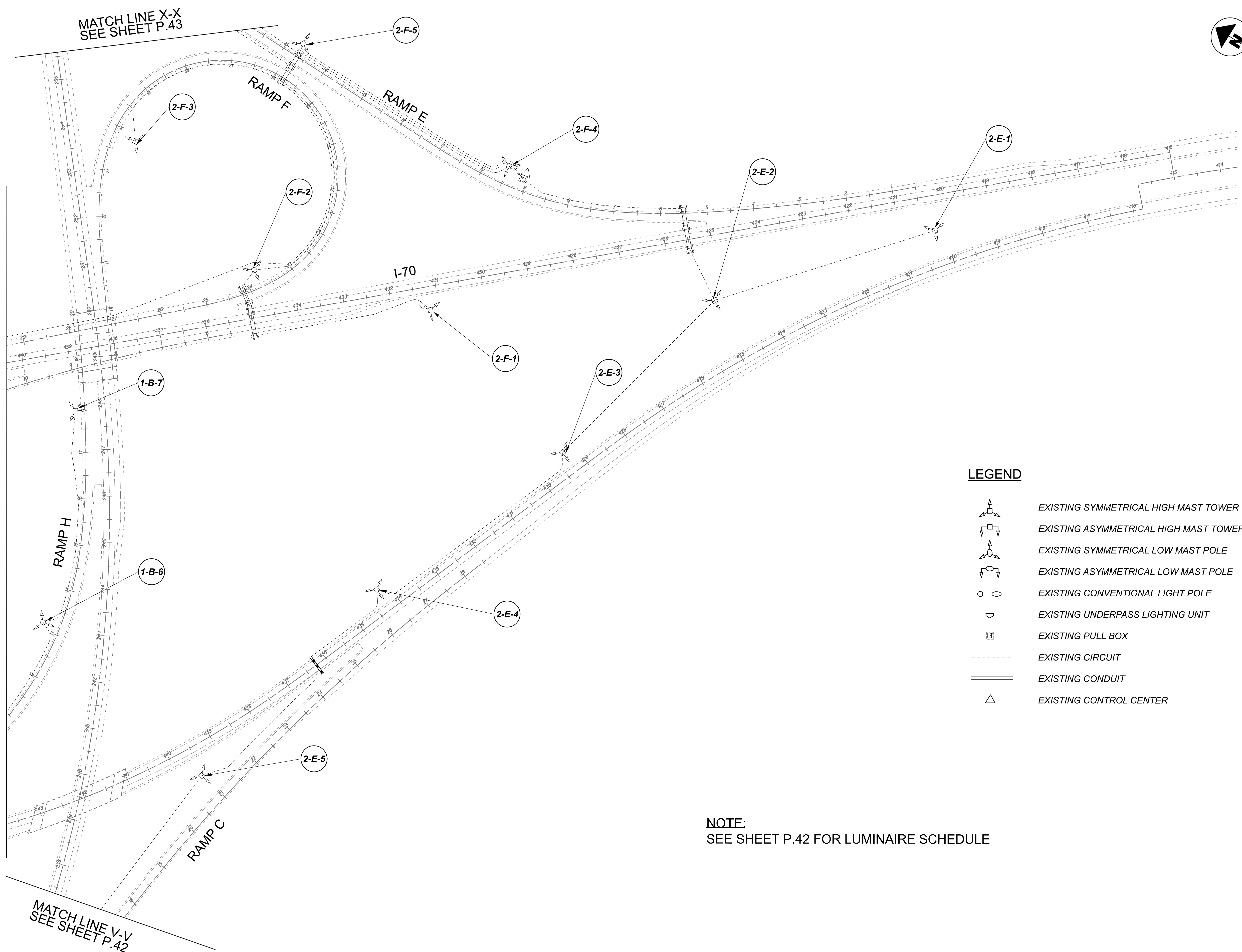
PROJECT ID  
 112676

SUBSET	TOTAL
4	5


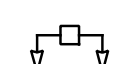

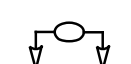
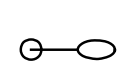


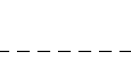
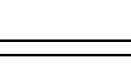

SHEET	TOTAL
P.44	197

MATCHLINE U-U  
 SEE SHEET P.42

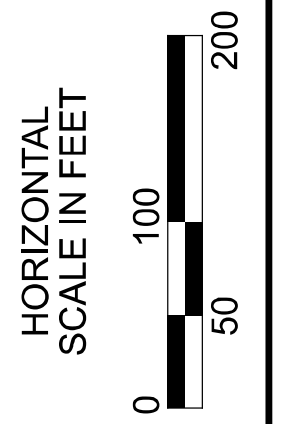
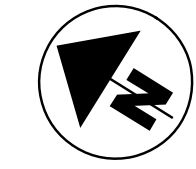
MATCH LINE W-W  
SEE SHEET P.42



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.42 FOR LUMINAIRE SCHEDULE



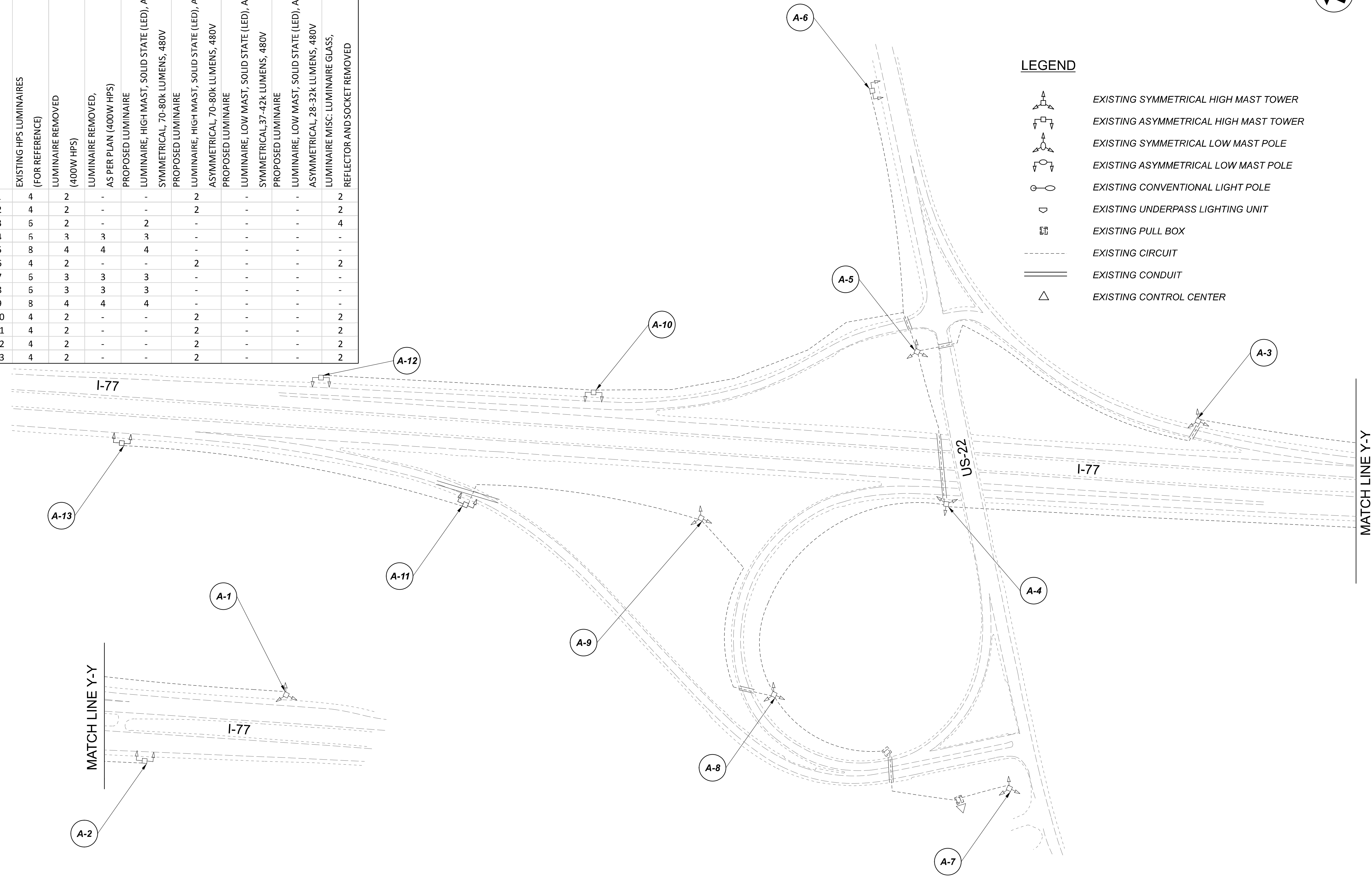
Lighting Plan - Location 14  
I-70 and I-77

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
5	5
SHEET	TOTAL
P.45	197

D05-Lighting Upgrade FY2021

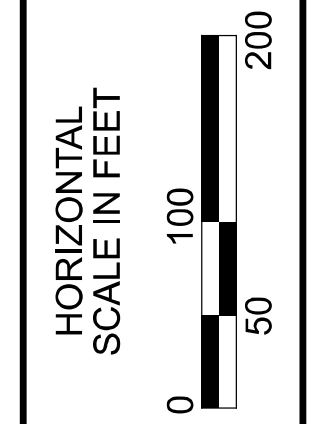
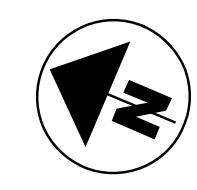
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	-	2
A-2	4	2	-	-	-	2	-	-	-	-	-	2
A-3	6	2	-	2	-	-	-	-	-	-	-	4
A-4	6	3	3	3	-	-	-	-	-	-	-	-
A-5	8	4	4	4	-	-	-	-	-	-	-	-
A-6	4	2	-	-	-	2	-	-	-	-	-	2
A-7	6	3	3	3	-	-	-	-	-	-	-	-
A-8	6	3	3	3	-	-	-	-	-	-	-	-
A-9	8	4	4	4	-	-	-	-	-	-	-	-
A-10	4	2	-	-	-	2	-	-	-	-	-	2
A-11	4	2	-	-	-	2	-	-	-	-	-	2
A-12	4	2	-	-	-	2	-	-	-	-	-	2
A-13	4	2	-	-	-	2	-	-	-	-	-	2



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 15  
I-77 and US-22

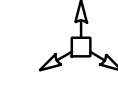
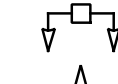
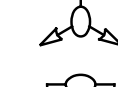



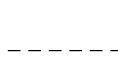
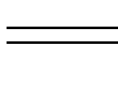
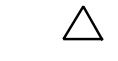

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.46	197

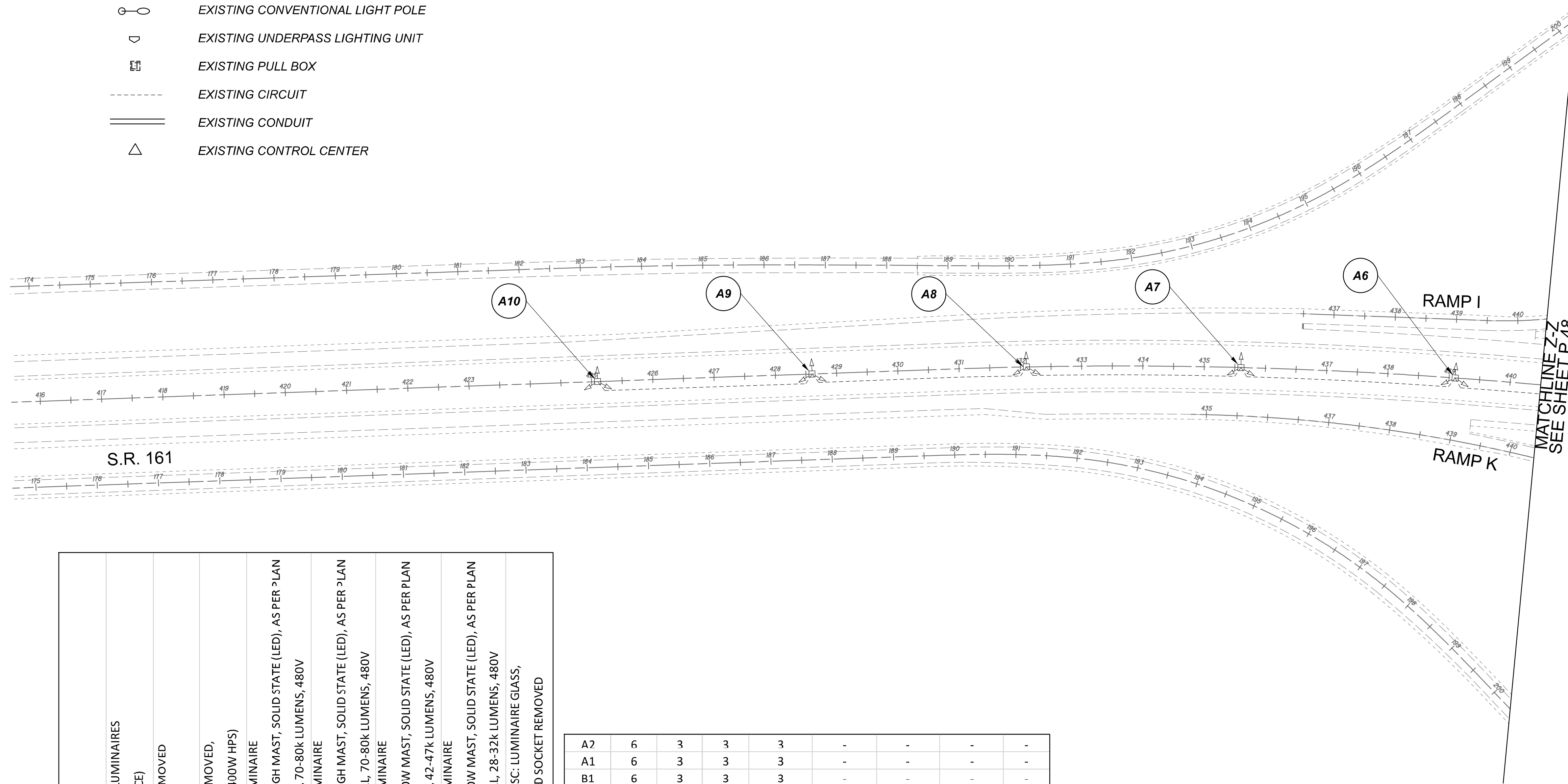


D05-Lighting Upgrade FY2021

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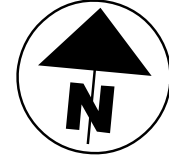
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



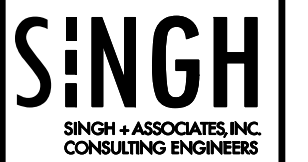
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A10	4	2	-	2	-	-	-	-	-	-	-	2
A9	4	2	-	2	-	-	-	-	-	-	-	2
A8	4	2	-	2	-	-	-	-	-	-	-	2
A7	4	2	-	2	-	-	-	-	-	-	-	2
A6	6	2	-	-	2	-	-	-	-	-	-	4
A5	6	2	-	-	2	-	-	-	-	-	-	4
A4	6	3	3	3	-	-	-	-	-	-	-	-
A3	6	3	3	3	-	-	-	-	-	-	-	-

A2	5	3	3	3	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-
B1	6	3	3	3	-	-	-	-	-	-	-	-
B2	6	3	3	3	-	-	-	-	-	-	-	-
B3	6	3	3	3	-	-	-	-	-	-	-	-
B4	6	3	3	3	-	-	-	-	-	-	-	-
B5	6	2	-	-	2	-	-	-	-	-	-	4
B6	6	2	-	-	2	-	-	-	-	-	-	4
B7	4	2	-	2	-	-	-	-	-	-	-	2
B8	4	2	-	2	-	-	-	-	-	-	-	2
B9	4	2	-	2	-	-	-	-	-	-	-	2
B10	4	2	-	2	-	-	-	-	-	-	-	2
B11	4	2	-	2	-	-	-	-	-	-	-	2



Lighting Plan - Location 16  
 S.R. 161 and S.R. 37

DESIGN AGENCY



DESIGNER  
VN

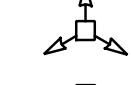
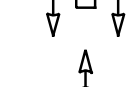
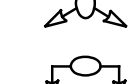
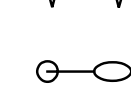


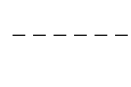
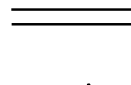
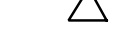

REVIEWER  
SG 03/11/22

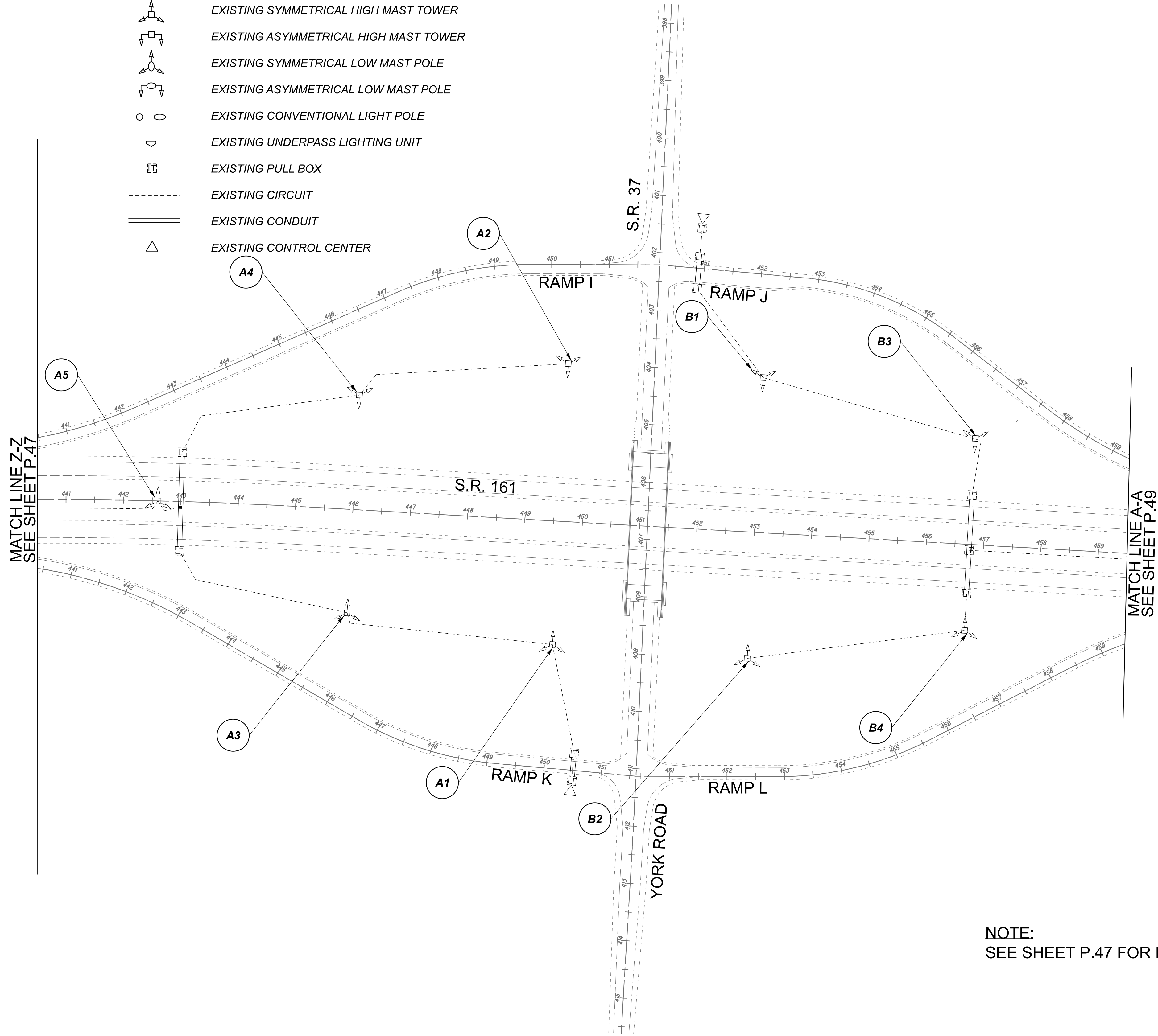
PROJECT ID  
112676

SUBSET	TOTAL
1	3

SHEET	TOTAL
P.47	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



**NOTE:**  
SEE SHEET P.47 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 16  
S.R. 161 and S.R. 37

DESIGN AGENCY



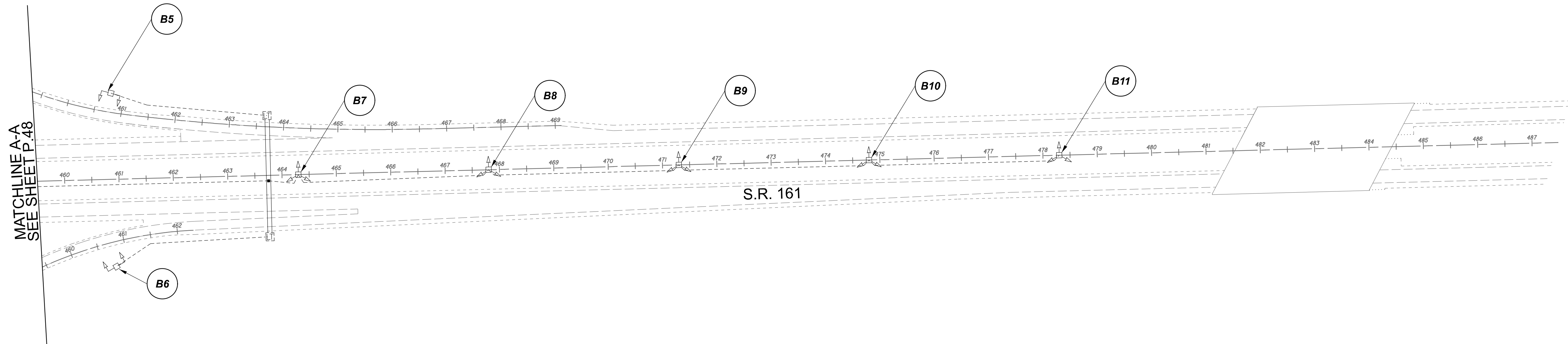
DESIGNER  
VN

REVIEWER  
SG 03/11/22

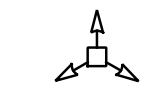
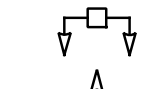
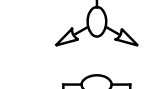
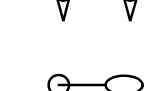


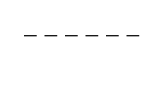
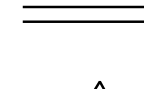
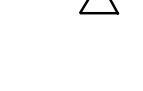

PROJECT ID  
112676

SUBSET	TOTAL
2	3

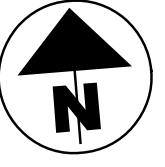
SHEET	TOTAL
P.48	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.47 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 16  
 S.R. 161 and S.R. 37

DESIGN AGENCY



DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676


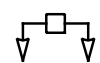
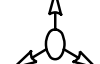
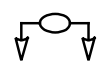
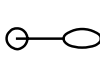



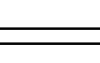

SUBSET	TOTAL
3	3

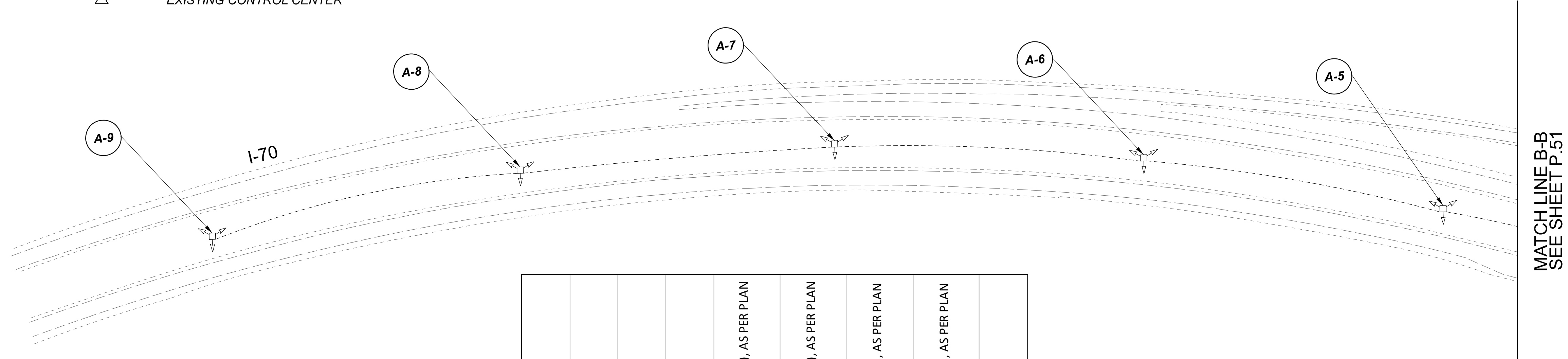
SHEET	TOTAL
P.49	197

D05-Lighting Upgrade FY2021

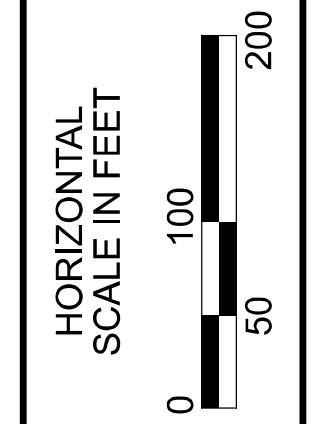
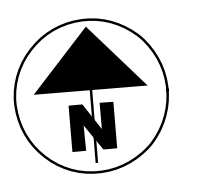
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-9	4	2	-	2	-	-	-	-	-	-	2
A-8	4	2	-	2	-	-	-	-	-	-	2
A-7	4	2	-	2	-	-	-	-	-	-	2
A-6	4	2	-	2	-	-	-	-	-	-	2
A-5	4	2	-	2	-	-	-	-	-	-	2
A-4	6	3	3	3	-	-	-	-	-	-	-
A-3	6	4	-	4	-	-	-	-	-	-	2
A-2	6	4	-	4	-	-	-	-	-	-	2
A-1	6	4	-	4	-	-	-	-	-	-	2
B-1	6	4	-	4	-	-	-	-	-	-	2
B-2	6	3	3	3	-	-	-	-	-	-	-
B-3	4	2	-	2	-	-	-	-	-	-	2
B-4	4	2	-	2	-	-	-	-	-	-	2
B-5	4	2	-	2	-	-	-	-	-	-	2
B-6	4	2	-	2	-	-	-	-	-	-	2



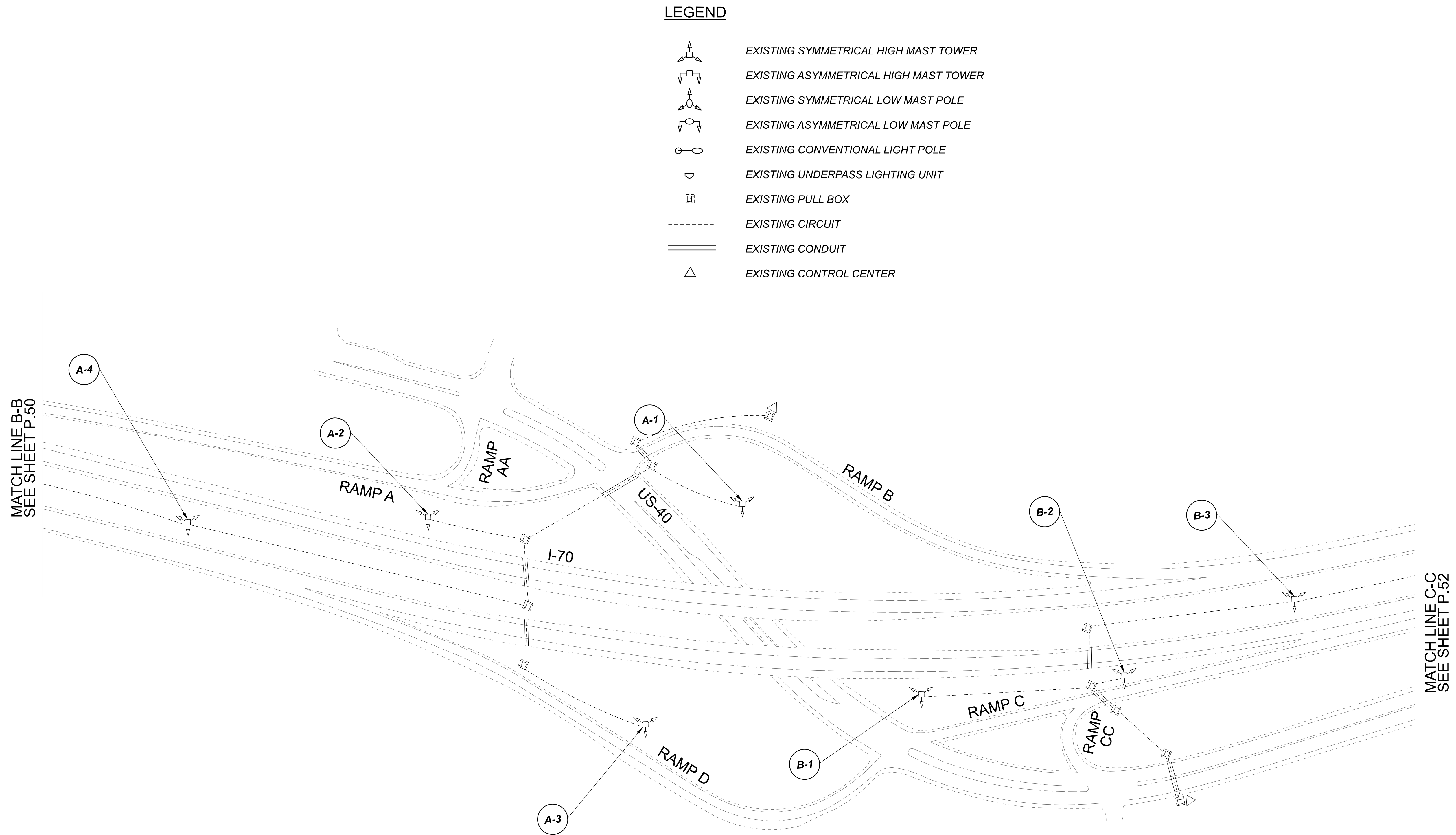
Lighting Plan - Location 17  
I-70 and US-40

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.50	
TOTAL	
197	

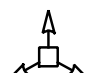
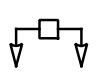
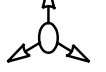
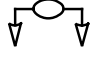
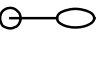


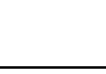


MATCH LINE B-B  
SEE SHEET P.51

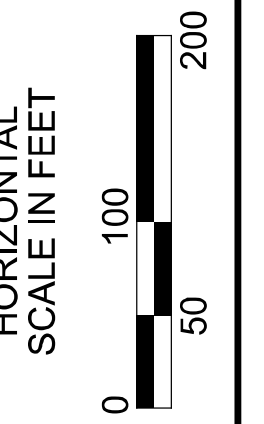
D05-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 17  
I-70 and US-40

**NOTE:**  
SEE SHEET P.50 FOR LUMINAIRE SCHEDULE

DESIGN AGENCY



DESIGNER  
VN

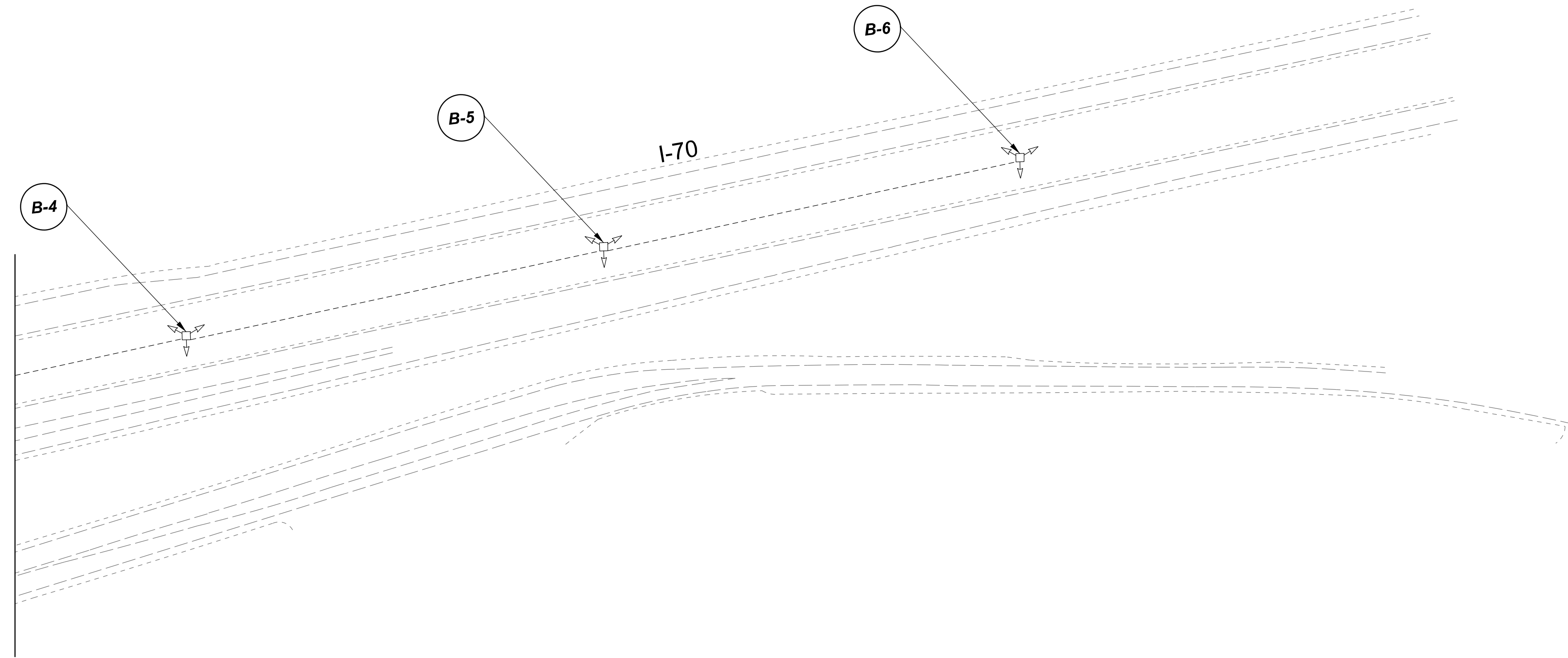
REVIEWER  
SG 03/11/22

PROJECT ID  
112676

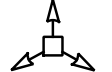
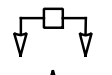
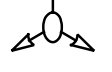
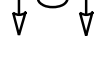
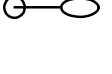


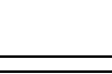


SUBSET	TOTAL
2	3

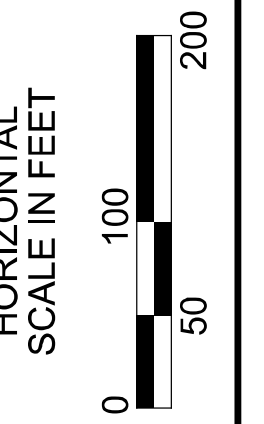
SHEET	TOTAL
P.51	197

MATCH LINE C-C  
 SEE SHEET P.51



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 17  
 I-70 and US-40

NOTE:  
 SEE SHEET P.50 FOR LUMINAIRE SCHEDULE

DESIGN AGENCY



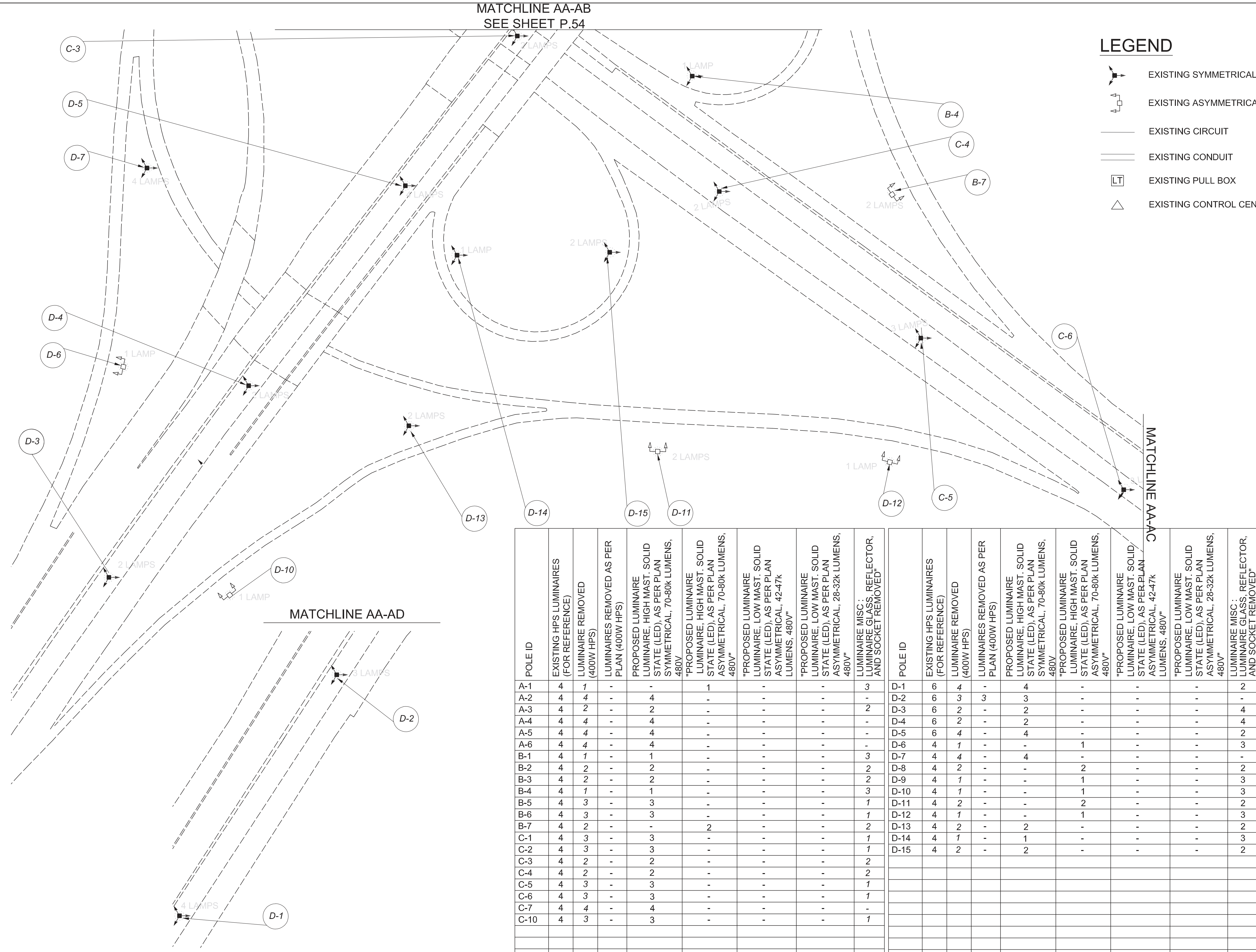
DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

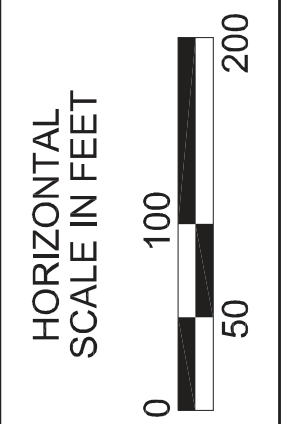
SUBSET	TOTAL
3	3

SHEET	TOTAL
P.52	197



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING PULL BOX
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-1	4	1	-	-	-	1	-	3
A-2	4	4	-	4	-	-	-	-
A-3	4	2	-	2	-	-	-	2
A-4	4	4	-	4	-	-	-	-
A-5	4	4	-	4	-	-	-	-
A-6	4	4	-	4	-	-	-	-
B-1	4	1	-	1	-	-	-	3
B-2	4	2	-	2	-	-	-	2
B-3	4	2	-	2	-	-	-	2
B-4	4	1	-	1	-	-	-	3
B-5	4	3	-	3	-	-	-	1
B-6	4	3	-	3	-	-	-	1
B-7	4	2	-	-	2	-	-	2
C-1	4	3	-	3	-	-	-	1
C-2	4	3	-	3	-	-	-	1
C-3	4	2	-	2	-	-	-	2
C-4	4	2	-	2	-	-	-	2
C-5	4	3	-	3	-	-	-	1
C-6	4	3	-	3	-	-	-	1
C-7	4	4	-	4	-	-	-	-
C-10	4	3	-	3	-	-	-	1

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
D-1	6	4	-	4	-	-	2
D-2	6	3	3	3	-	-	-
D-3	6	2	-	2	-	-	4
D-4	6	2	-	2	-	-	4
D-5	6	4	-	4	-	-	2
D-6	4	1	-	-	1	-	3
D-7	4	4	-	4	-	-	-
D-8	4	2	-	-	2	-	2
D-9	4	1	-	-	1	-	3
D-10	4	1	-	-	1	-	3
D-11	4	2	-	-	2	-	2
D-12	4	1	-	-	1	-	3
D-13	4	2	-	2	-	-	2
D-14	4	1	-	1	-	-	3
D-15	4	2	-	2	-	-	2

Lighting Plan - Locations D06-18  
I-270 and I-71

DESIGN AGENCY



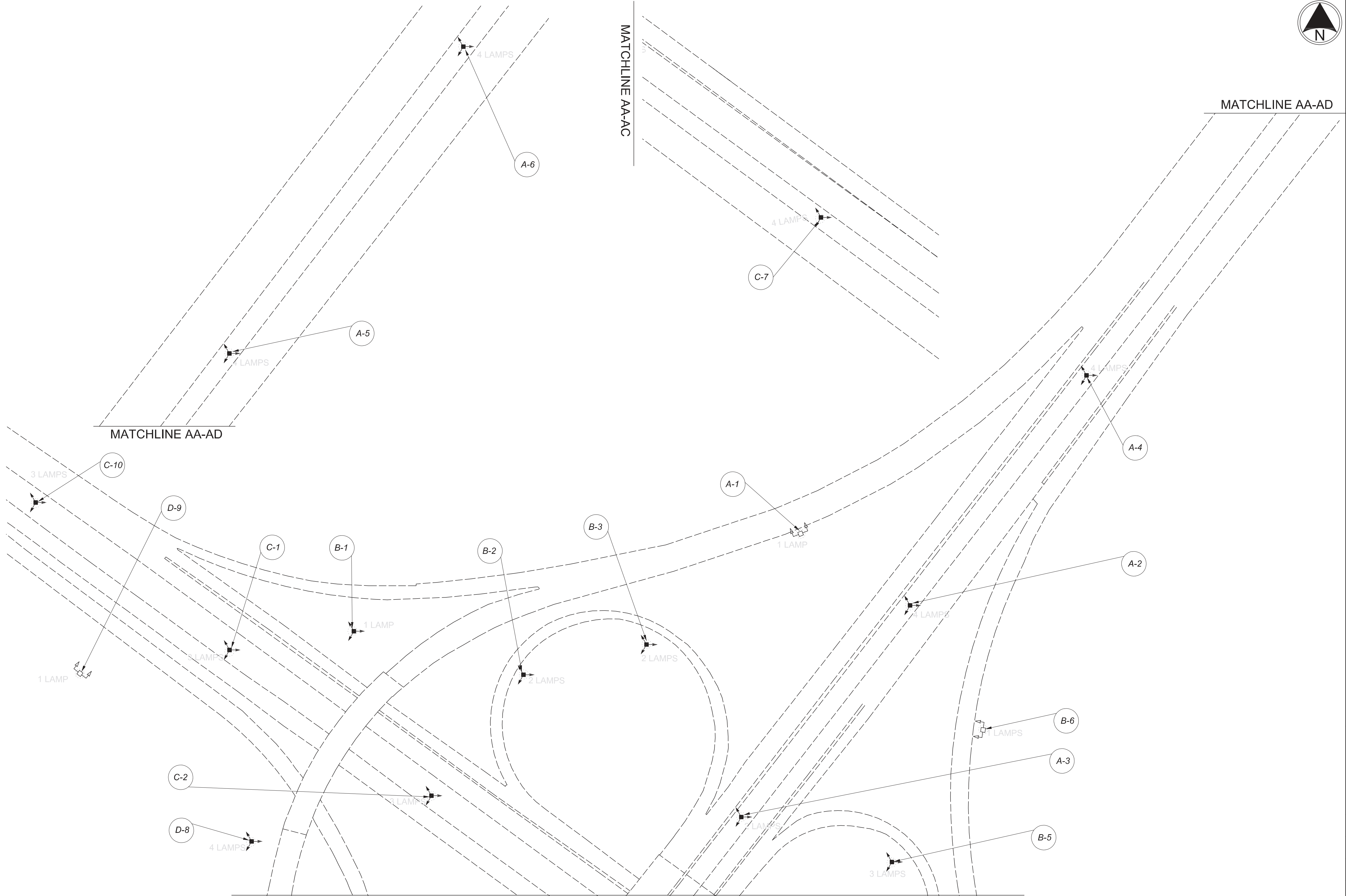
DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.53	197



Lighting Plan - Locations D06-18  
I-270 and I-71

DESIGN AGENCY



DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.54	197



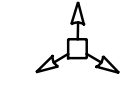
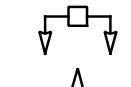
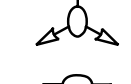



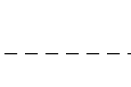
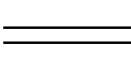


D06-Lighting Upgrade FY2021

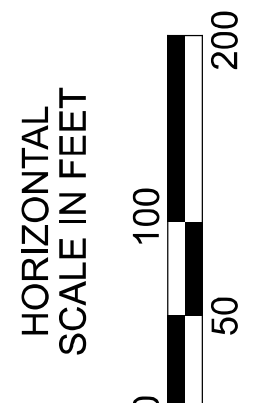
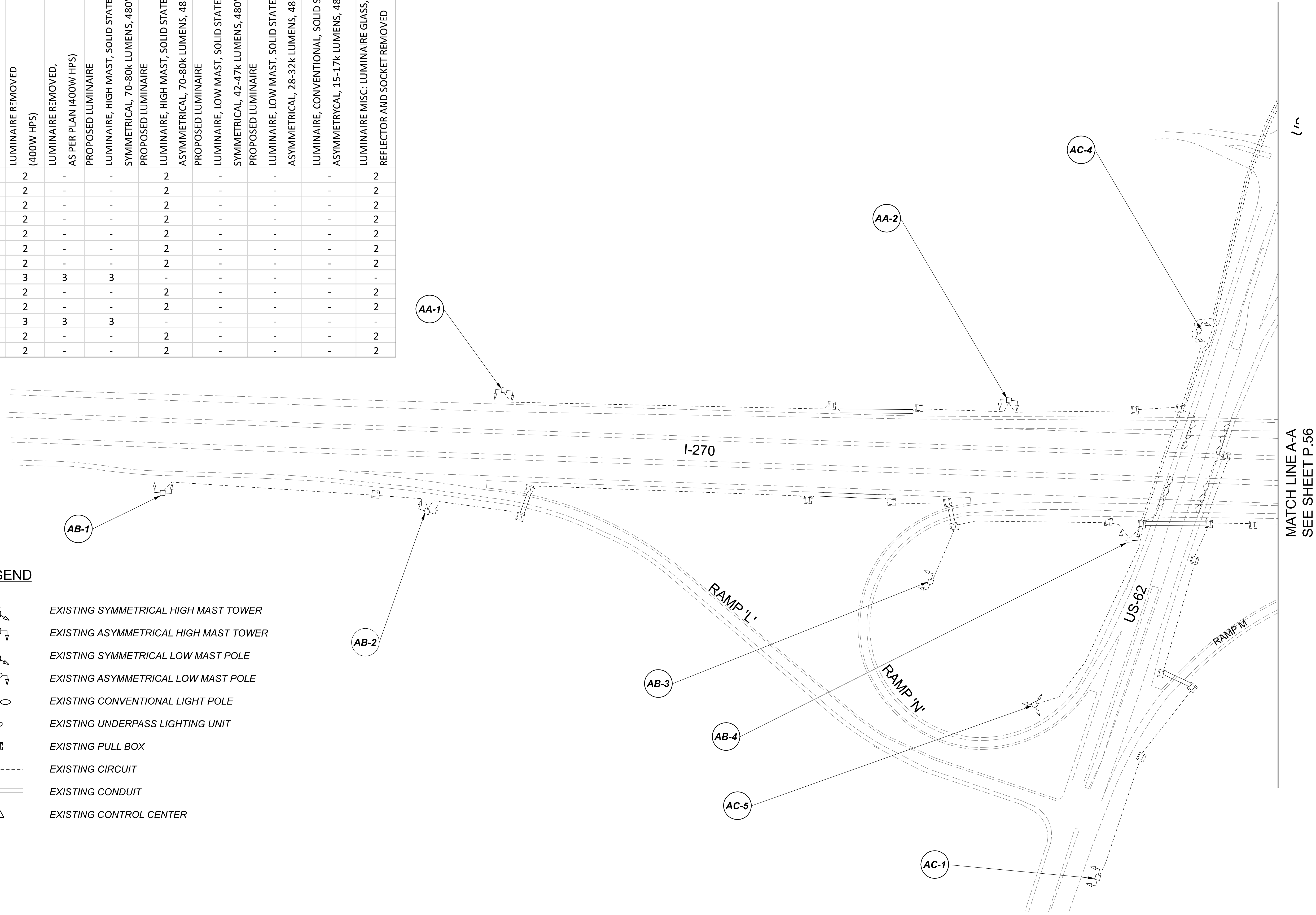
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 15-17k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA1	4	2	-	-	-	2	-	-	-	-	-	2	-
AA2	4	2	-	-	-	2	-	-	-	-	-	2	-
AA3	4	2	-	-	-	2	-	-	-	-	-	2	-
AA4	4	2	-	-	-	2	-	-	-	-	-	2	-
AA5	4	2	-	-	-	2	-	-	-	-	-	2	-
AA6	4	2	-	-	-	2	-	-	-	-	-	2	-
AC1	4	2	-	-	-	2	-	-	-	-	-	2	-
AC2	6	3	3	3	-	-	-	-	-	-	-	-	-
AC3	4	2	-	-	-	2	-	-	-	-	-	2	-
AC4	4	2	-	-	-	2	-	-	-	-	-	2	-
AC5	6	3	3	3	-	-	-	-	-	-	-	-	-
AB1	4	2	-	-	-	2	-	-	-	-	-	2	-
AB2	4	2	-	-	-	2	-	-	-	-	-	2	-

AB3	4	2	-	-	-	2	-	-	-	-	-	2	-
AB4	4	2	-	-	-	2	-	-	-	-	-	2	-
AB6	4	2	-	-	-	2	-	-	-	-	-	2	-
AB7	4	2	-	-	-	2	-	-	-	-	-	2	-
AB8	4	2	-	-	-	2	-	-	-	-	-	2	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



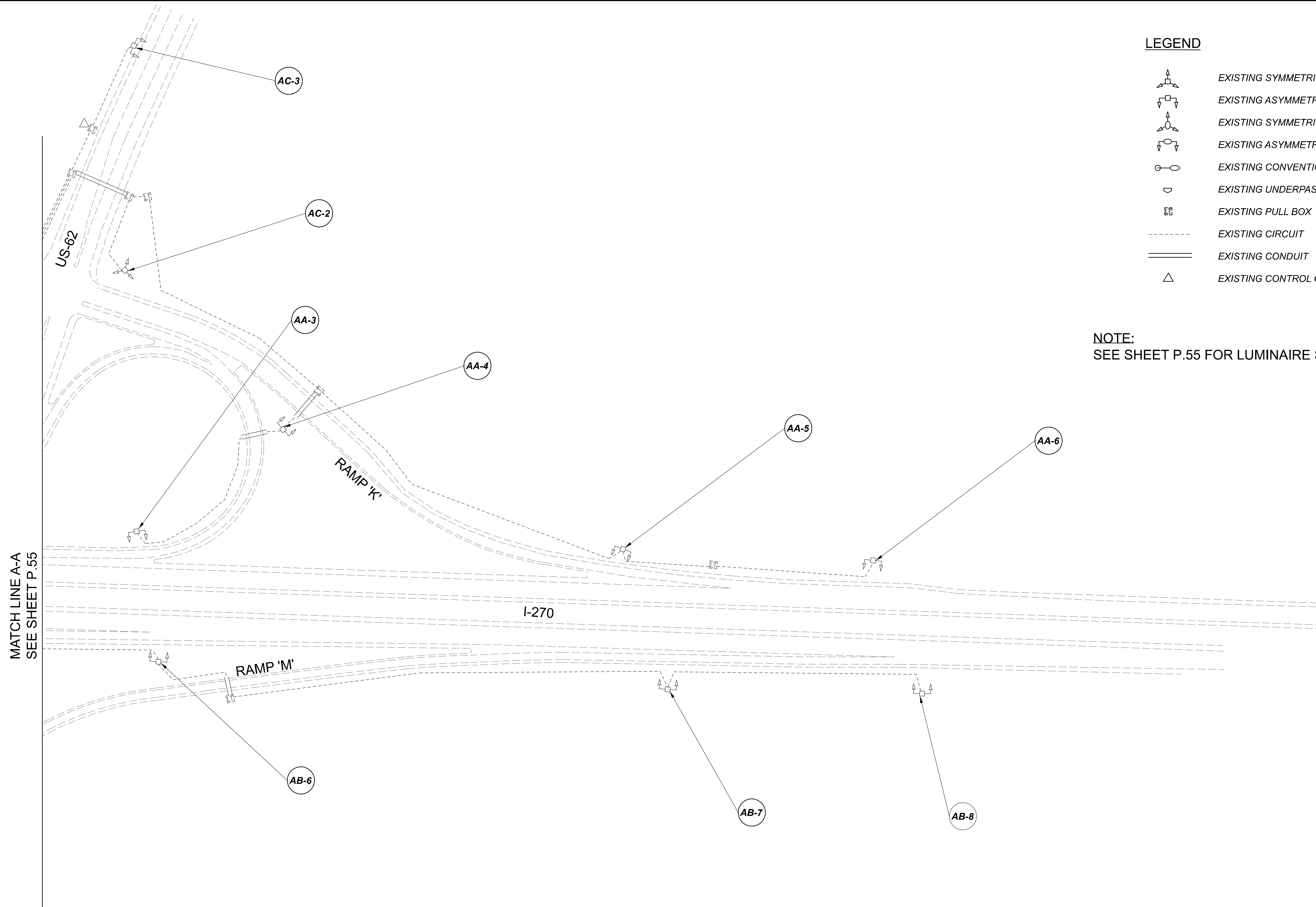
Lighting Plan - Location 19  
I-270 and I-71

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.55	197











MATCH LINE A-A  
SEE SHEET P.56

D06-Lighting Upgrade FY2021

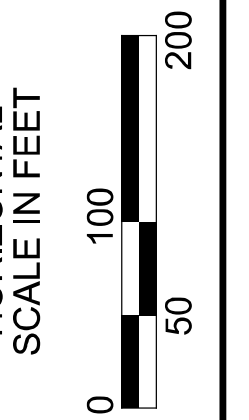
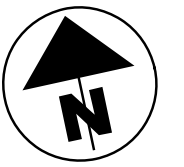
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTE:  
SEE SHEET P.55 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 19  
I-270 and I-71

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2


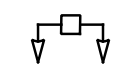

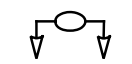
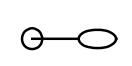


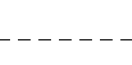
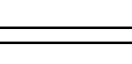

SHEET	TOTAL
P.56	197

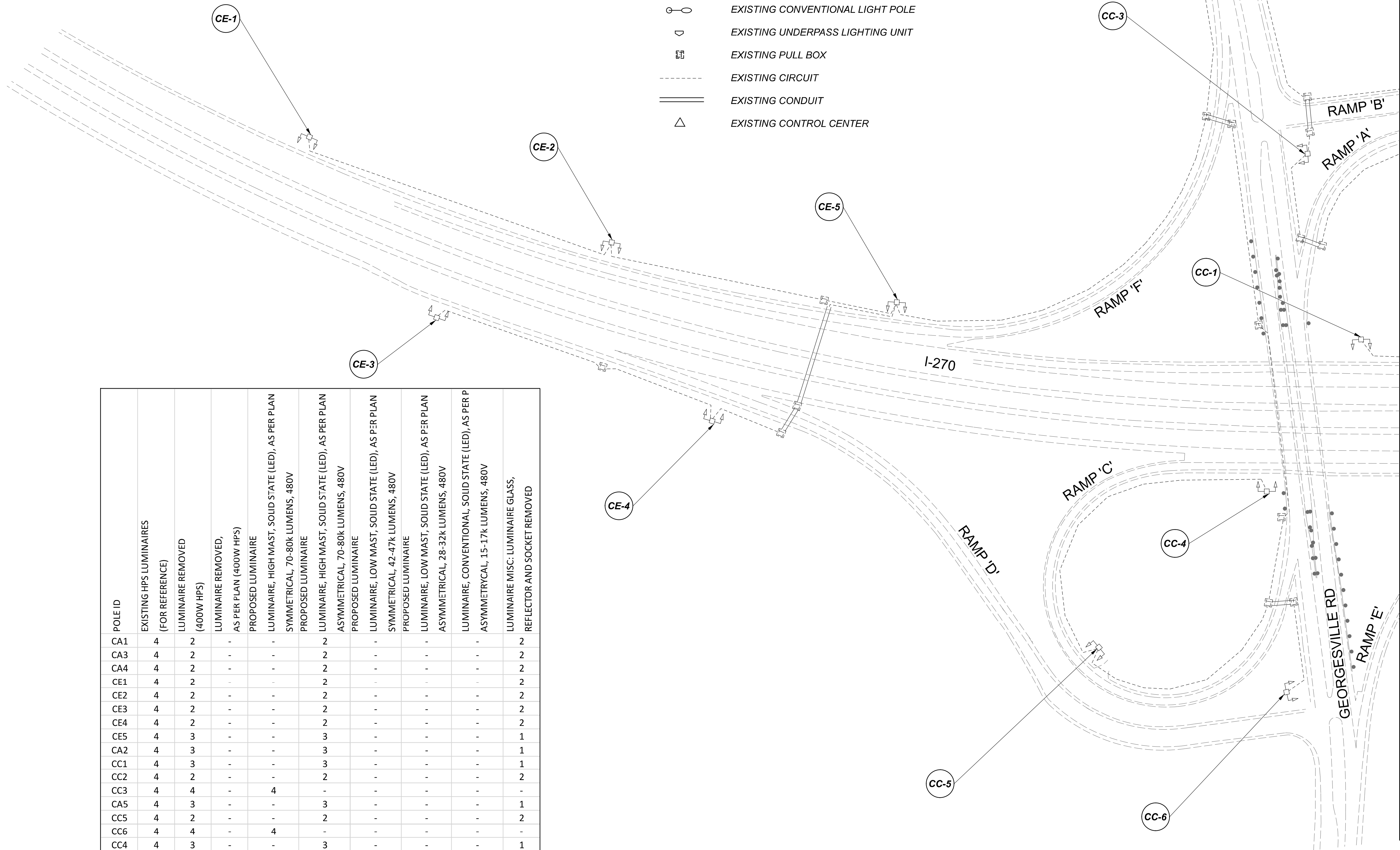
D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:22 PM USER: vnunez  
 p:\1\h10dot-pw\berriey\ooh10dot-pw-02\Documents\01\Active Projects\Statewide\Statewide\12676\01-Engineering\_Singh\Associates\Lighting\Sheets\12676\_L\_P04.dgn

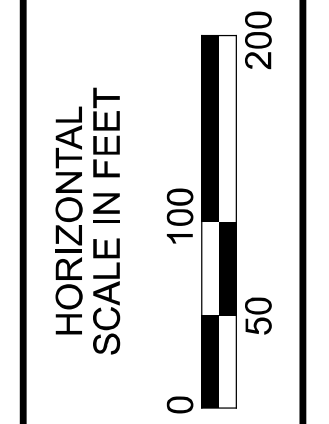
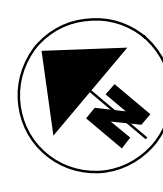
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 15-17k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
CA1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CA3	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CA4	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE3	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE4	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE5	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CA2	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC1	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CC3	4	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA5	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC5	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CC6	4	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
CC4	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE B-B  
SEE SHEET P.58



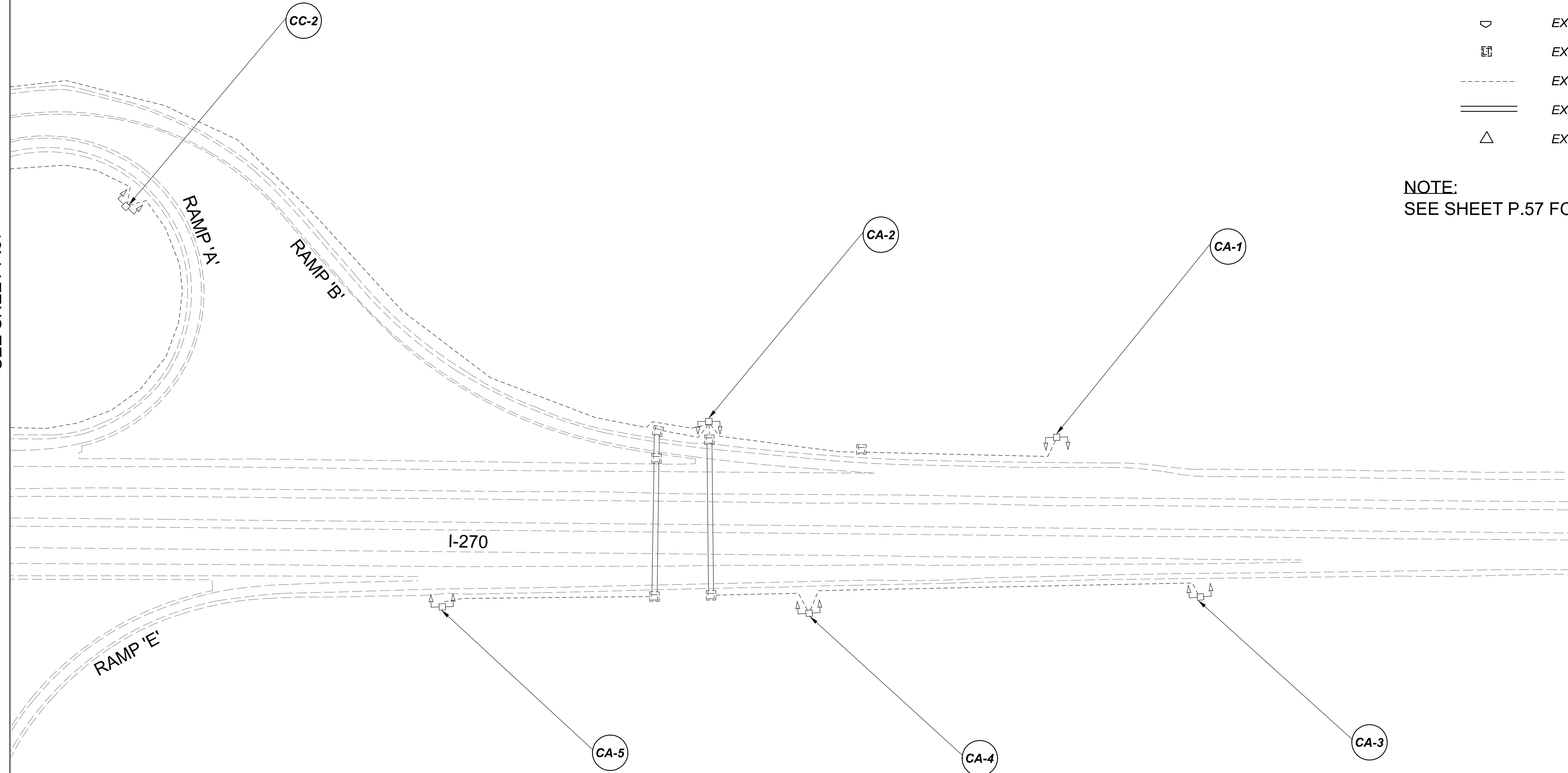
Lighting Plan - Location 20  
I-270 and Georgesville Road

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.57	
TOTAL	
197	

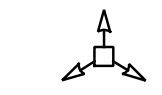
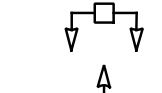
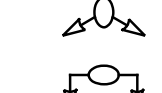
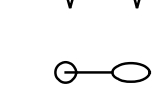


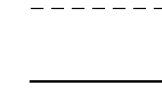



D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:40 PM USER: vnuvez  
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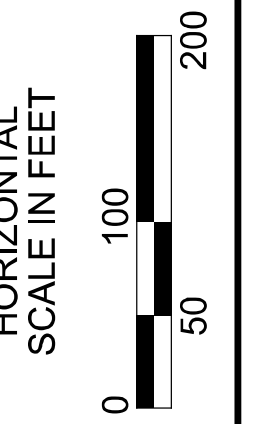
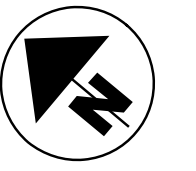
MATCH LINE B-B  
SEE SHEET P.57



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.57 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 20  
I-270 and Georgesville Road

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.58	197











D06-Lighting Upgrade FY2021

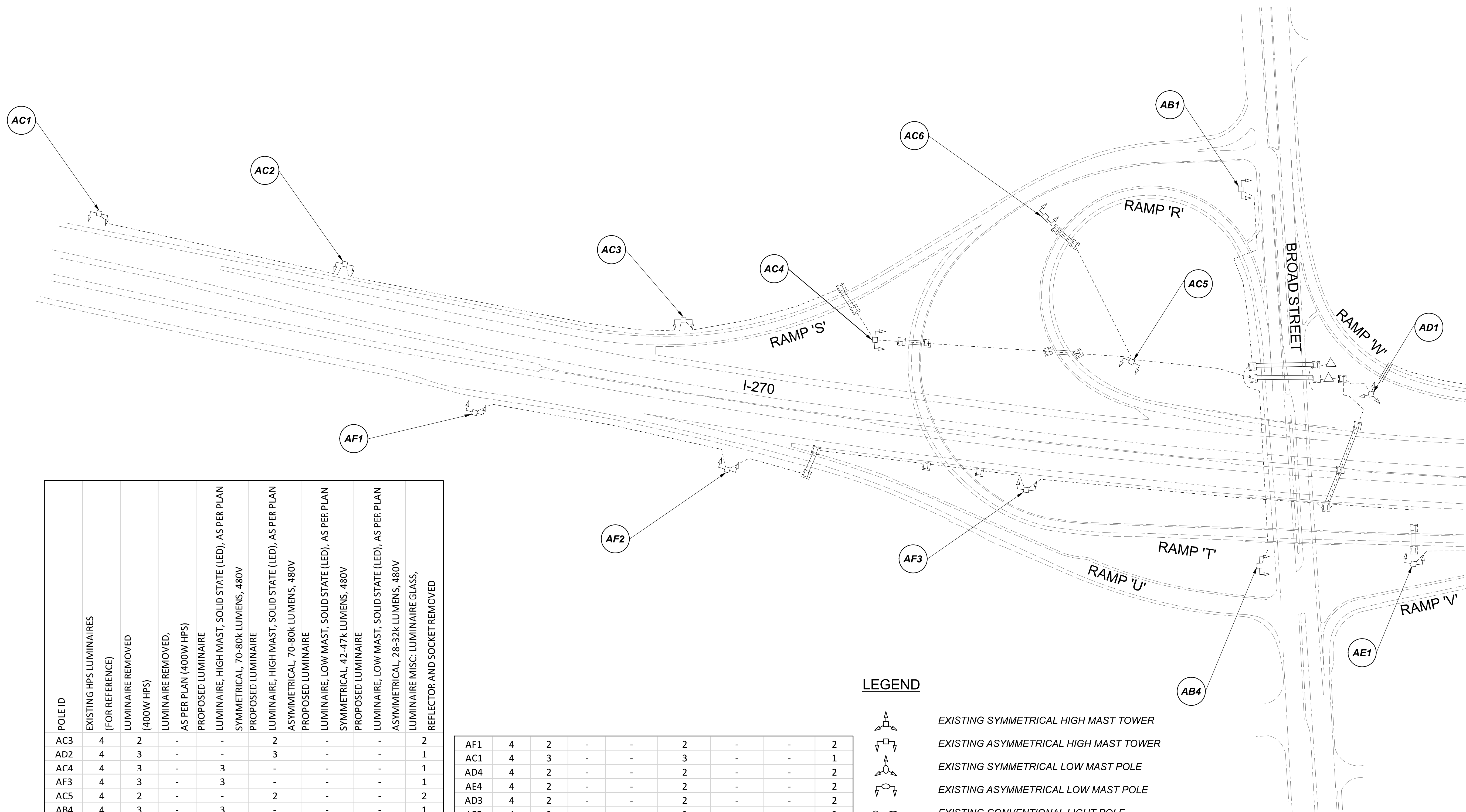
MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:43 PM USER: vnunez  
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AC3	4	2	-	-	-	2	-	-	-	-	2	-
AD2	4	3	-	-	-	3	-	-	-	-	1	-
AC4	4	3	-	3	-	-	-	-	-	-	1	-
AF3	4	3	-	3	-	-	-	-	-	-	1	-
AC5	4	2	-	-	-	2	-	-	-	-	2	-
AB4	4	3	-	3	-	-	-	-	-	-	1	-
AE1	4	3	-	-	-	3	-	-	-	-	1	-
AE2	4	2	-	-	-	2	-	-	-	-	2	-
AE3	4	2	-	-	-	2	-	-	-	-	2	-
AD5	4	2	-	-	-	2	-	-	-	-	2	-
AD1	6	3	3	3	-	-	-	-	-	-	-	-
AB1	4	3	-	3	-	-	-	-	-	-	1	-
AC6	4	3	-	3	-	-	-	-	-	-	1	-
AF2	4	2	-	-	-	2	-	-	-	-	2	-
AC2	4	3	-	-	-	3	-	-	-	-	1	-

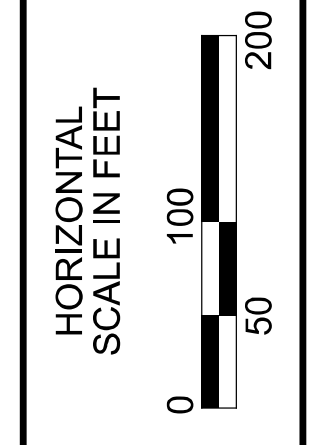
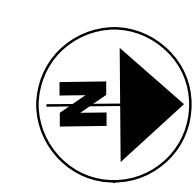
AF1	4	2	-	-	2	-	-	2
AC1	4	3	-	-	3	-	-	1
AD4	4	2	-	-	2	-	-	2
AE4	4	2	-	-	2	-	-	2
AD3	4	2	-	-	2	-	-	2
AE5	4	2	-	-	2	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE C-C  
SEE SHEET P.60



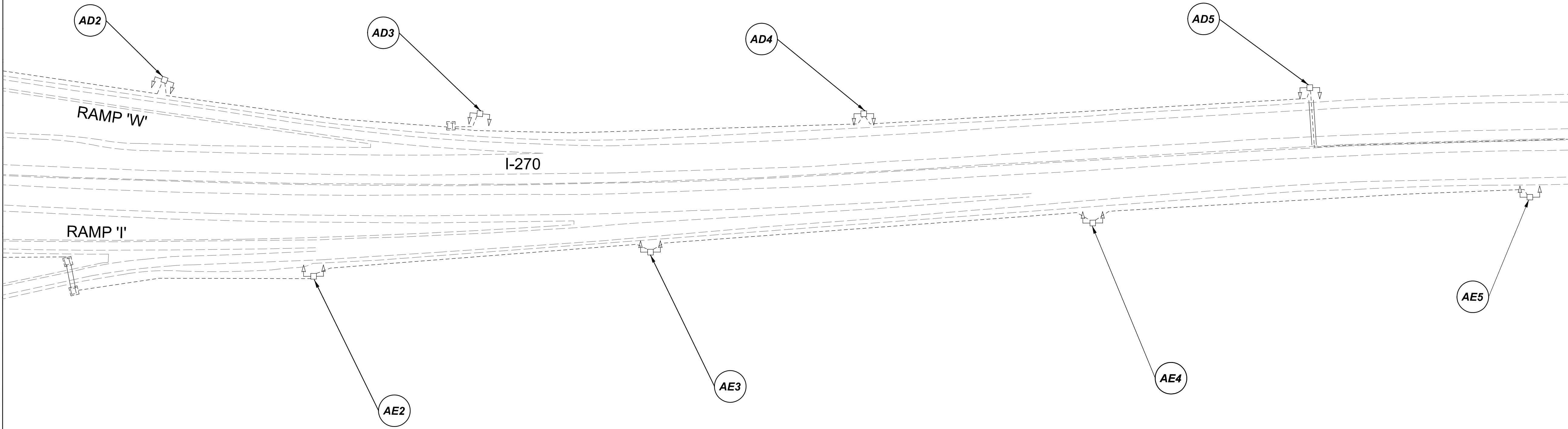
Lighting Plan - Location 21  
I-270 and US-40

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.59	197

D06-Lighting Upgrade FY2021











MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/12/2022 TIME: 10:26:31 AM USER: vgnurakas  
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MATCH LINE C-C  
SEE SHEET P.59

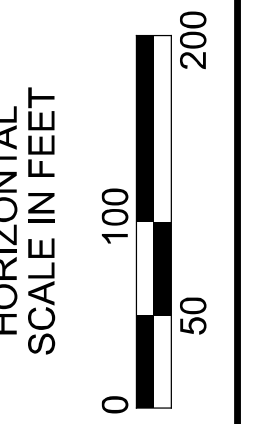


NOTE:  
SEE SHEET P.59 FOR LUMINAIRE SCHEDULE

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

MATCH LINE D-D  
SEE SHEET P.61



Lighting Plan - Location 21  
I-270 and US-40

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

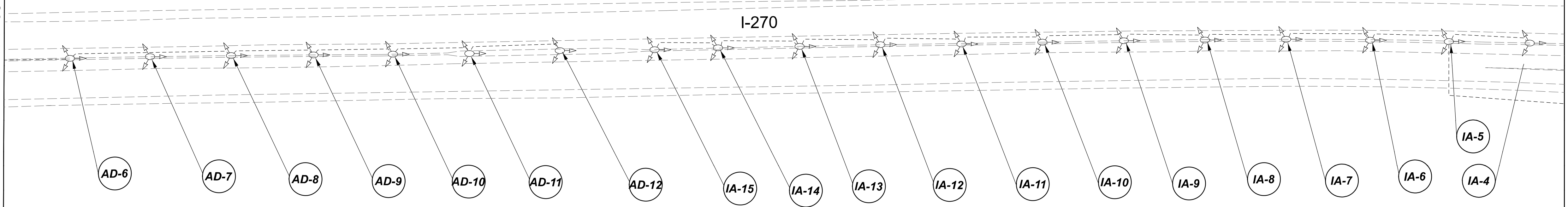
SUBSET	TOTAL
2	2

SHEET	TOTAL
P.60	197

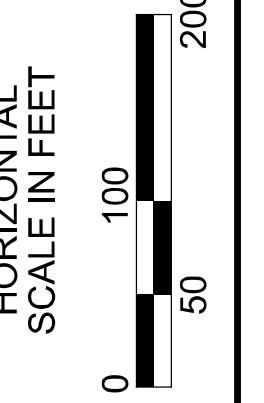
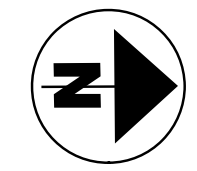
D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/12/2022 TIME: 10:27:46 AM USER: vglurikas  
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MATCH LINE D-D  
SEE SHEET P.60


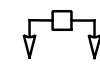
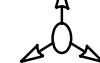
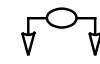
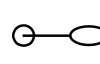


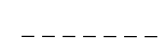
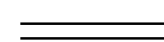



MATCH LINE E-E  
SEE SHEET P.62



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AD-6	1	1	-	-	-	-	-	1	-	-	-	-
AD-7	1	1	-	-	-	-	-	1	-	-	-	-
AD-8	1	1	-	-	-	-	-	1	-	-	-	-
AD-9	1	1	-	-	-	-	-	1	-	-	-	-
AD-10	1	1	-	-	-	-	-	1	-	-	-	-
AD-11	1	1	-	-	-	-	-	1	-	-	-	-
AD-12	1	1	-	-	-	-	-	1	-	-	-	-
IA-15	1	1	-	-	-	-	-	1	-	-	-	-
IA-14	1	1	-	-	-	-	-	1	-	-	-	-
IA-13	1	1	-	-	-	-	-	1	-	-	-	-
IA-12	1	1	-	-	-	-	-	1	-	-	-	-
IA-11	1	1	-	-	-	-	-	1	-	-	-	-
IA-10	1	1	-	-	-	-	-	1	-	-	-	-
IA-9	1	1	-	-	-	-	-	1	-	-	-	-
IA-8	1	1	-	-	-	-	-	1	-	-	-	-
IA-7	1	1	-	-	-	-	-	1	-	-	-	-
IA-6	1	1	-	-	-	-	-	1	-	-	-	-
IA-5	1	1	-	-	-	-	-	1	-	-	-	-
IA-4	1	1	-	-	-	-	-	1	-	-	-	-


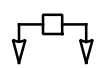

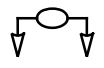
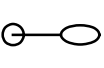


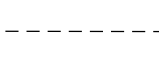
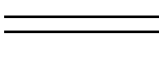

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

Lighting Plan - Location 22  
I-270 - US-40 to I-70

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.61	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
H-2	4	3	-	-	-	3	-	-	-	-	-	1
H-1	4	2	-	-	-	2	-	-	-	-	-	2
A-2	4	3	-	-	-	3	-	-	-	-	-	1
B-1	4	2	-	-	-	2	-	-	-	-	-	2
A-3	4	3	-	-	-	3	-	-	-	-	-	1
B-2	4	2	-	-	-	2	-	-	-	-	-	2
B-3	4	2	-	-	-	2	-	-	-	-	-	2

C-9	6	3	3	3	-	-	-	-	-	-	-	-
G-6	6	2	-	2	-	-	-	-	-	-	-	4
C-8	6	2	-	2	-	-	-	-	-	-	-	4
C-7	6	3	3	3	-	-	-	-	-	-	-	-
G-5	6	3	3	3	-	-	-	-	-	-	-	-
G-4	4	2	-	2	-	-	-	-	-	-	-	2
C-6	4	2	-	-	2	-	-	-	-	-	-	2
C-5	4	2	-	-	2	-	-	-	-	-	-	2
C-4	4	2	-	-	2	-	-	-	-	-	-	2
C-2	4	2	-	-	2	-	-	-	-	-	-	2
C-3	4	2	-	-	2	-	-	-	-	-	-	2
C-1	4	2	-	-	2	-	-	-	-	-	-	2
A-1	4	2	-	-	2	-	-	-	-	-	-	2
E-1	4	2	-	-	2	-	-	-	-	-	-	2
D-1	4	2	-	2	-	-	-	-	-	-	-	2
E-2	4	2	-	-	2	-	-	-	-	-	-	2
D-2	4	2	-	-	2	-	-	-	-	-	-	2
D-9	4	2	-	2	-	-	-	-	-	-	-	2
D-10	4	2	-	2	-	-	-	-	-	-	-	2
D-4	4	2	-	-	2	-	-	-	-	-	-	2
D-7	4	3	-	3	-	-	-	-	-	-	-	1
D-8	4	3	-	-	3	-	-	-	-	-	-	1
D-3	4	2	-	-	2	-	-	-	-	-	-	2
D-6	4	2	-	-	2	-	-	-	-	-	-	2
F-5	4	2	-	-	2	-	-	-	-	-	-	2
F-6	4	2	-	2	-	-	-	-	-	-	-	2
G-3	4	2	-	-	2	-	-	-	-	-	-	2

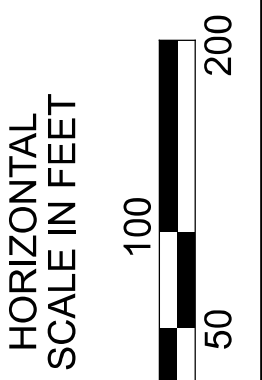
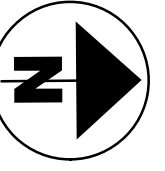
G-2	4	2	-	-	-	2	-	-	-	-	-	2
G-1	4	2	-	-	-	2	-	-	-	-	-	2
F-4	4	2	-	-	-	2	-	-	-	-	-	2
F-3	4	2	-	-	-	2	-	-	-	-	-	2
F-2	4	2	-	-	-	2	-	-	-	-	-	2
F-1	4	3	-	-	-	3	-	-	-	-	-	1
B-10	4	3	-	-	-	3	-	-	-	-	-	1
B-9	4	2	-	-	-	2	-	-	-	-	-	2
B-8	4	2	-	-	-	2	-	-	-	-	-	2
B-7	4	2	-	-	2	-	-	-	-	-	-	2
B-6	4	2	-	-	-	2	-	-	-	-	-	2
B-5	4	2	-	-	-	2	-	-	-	-	-	2
B-4	4	2	-	-	-	2	-	-	-	-	-	2
F-7	4	2	-	-	-	2	-	-	-	-	-	2
E-7	4	2	-	-	-	2	-	-	-	-	-	2
E-8	4	2	-	-	-	2	-	-	-	-	-	2
E-9	4	2	-	-	-	2	-	-	-	-	-	2
E-6	4	3	-	-	-	3	-	-	-	-	-	1
E-5	4	2	-	-	-	2	-	-	-	-	-	2
E-4	4	2	-	-	-	2	-	-	-	-	-	2
E-3	4	2	-	-	-	2	-	-	-	-	-	2
D-5	4	2	-	-	-	2	-	-	-	-	-	2
D-11	4	2	-	-	-	2	-	-	-	-	-	2
C1-1	1	1	-	-	-	-	-	-	-	1	-	-
C1-2	1	1	-	-	-	-	-	-	-	1	-	-

MATCH LINE E-E  
SEE SHEET P.61

MATCH LINE F-F  
SEE SHEET P.63

MATCH LINE H-H  
SEE SHEET P.64

MATCH LINE E-E  
SEE SHEET P.64



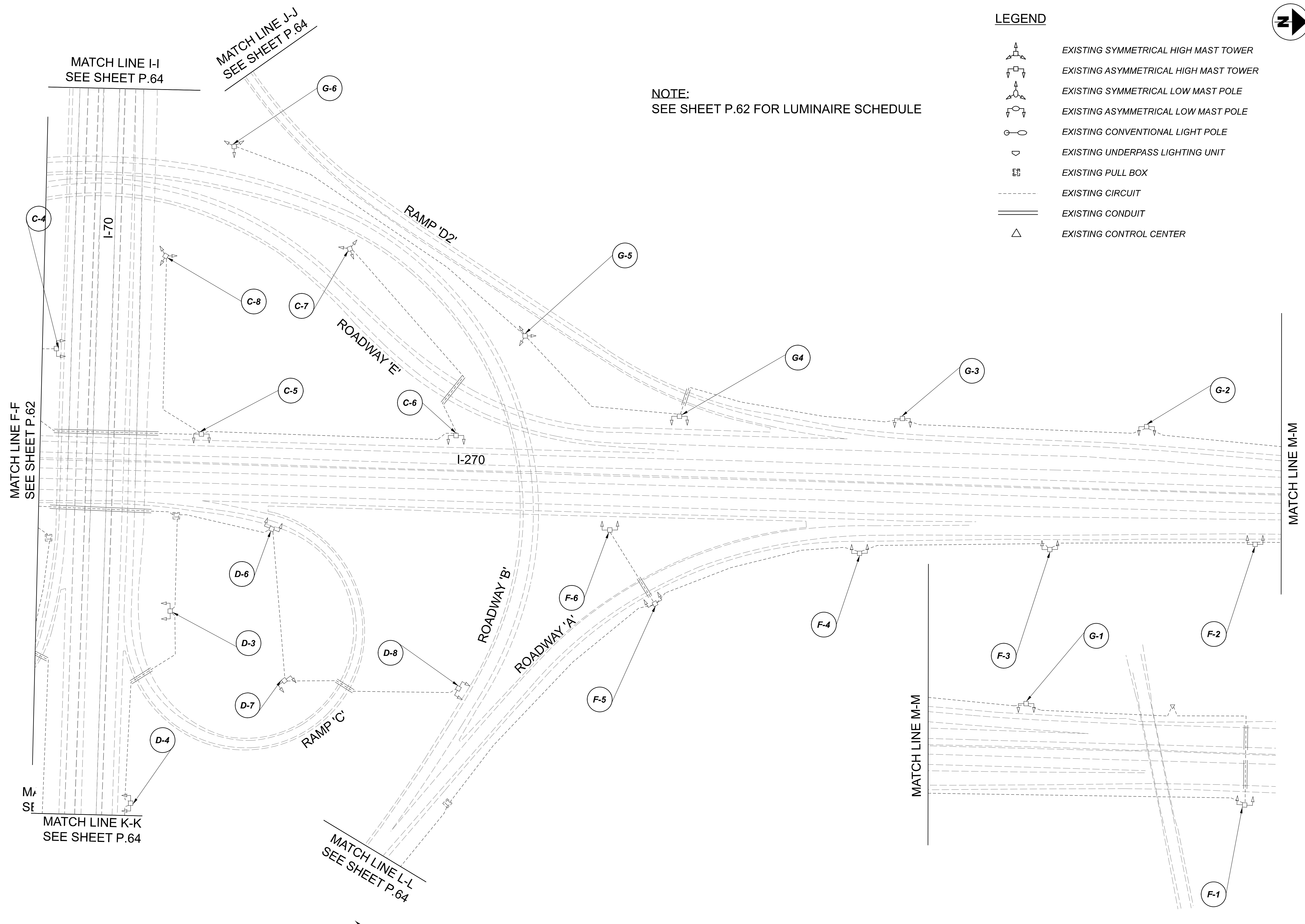
Lighting Plan - Location 23  
I-270 and I-70

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.62	TOTAL 197



D06-Lighting Upgrade FY2021

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NOTE:  
SEE SHEET P.62 FOR LUMINAIRE SCHEDULE

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

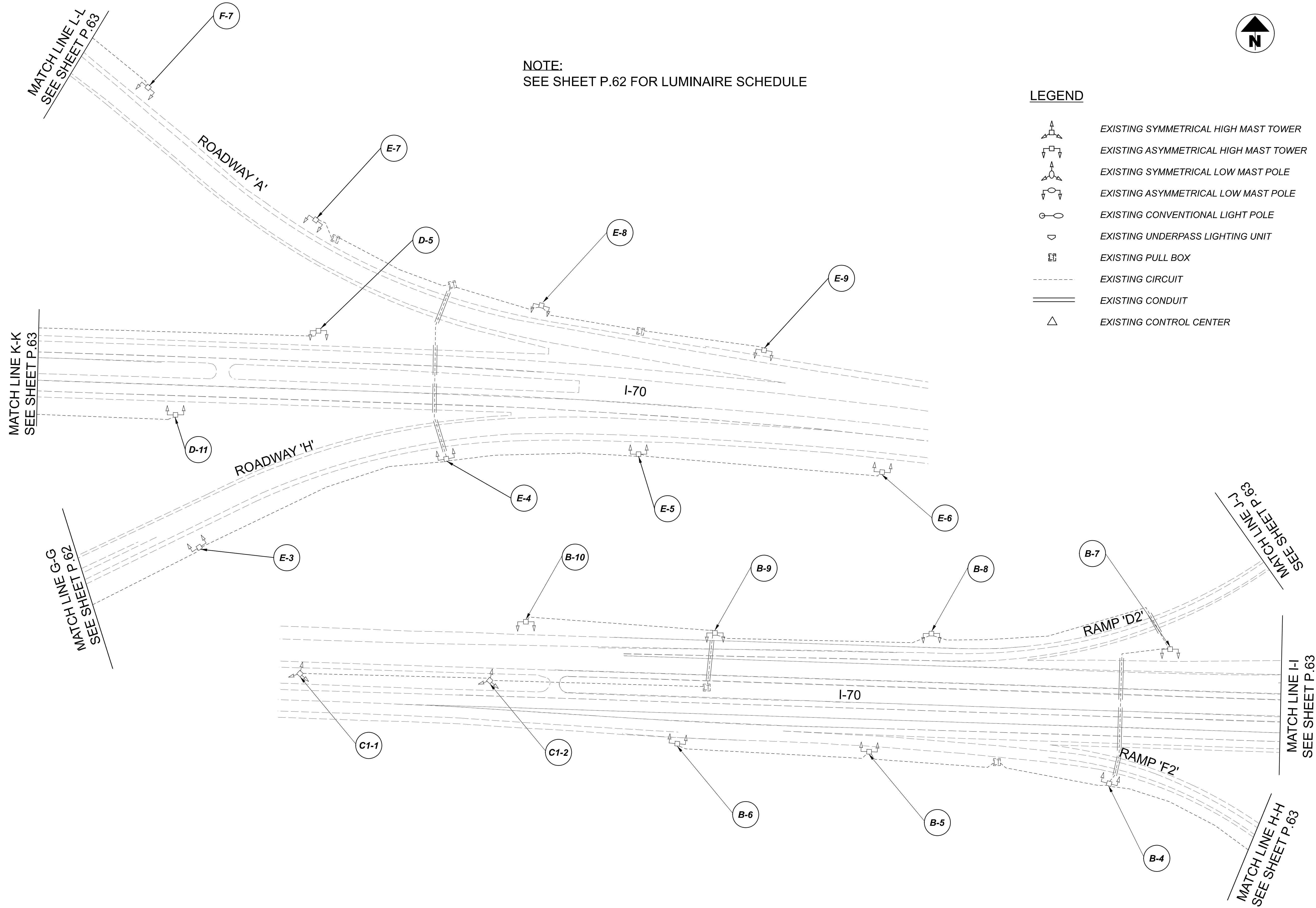


Lighting Plan - Location 23  
I-270 and I-70

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	3
SHEET	TOTAL
P.63	197

D06-Lighting Upgrade FY2021

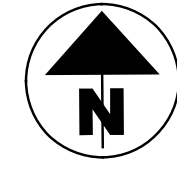
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NOTE:  
SEE SHEET P.62 FOR LUMINAIRE SCHEDULE

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 23  
I-270 and I-70

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

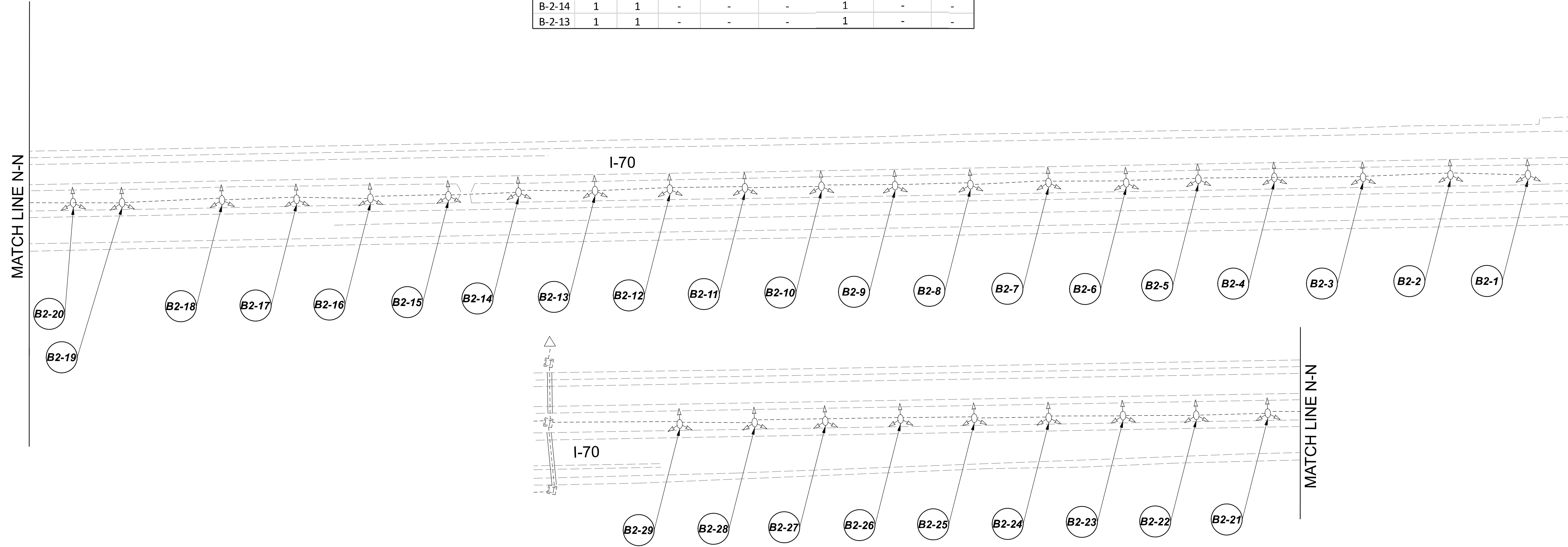
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
3	3

SHEET	TOTAL
P.64	197

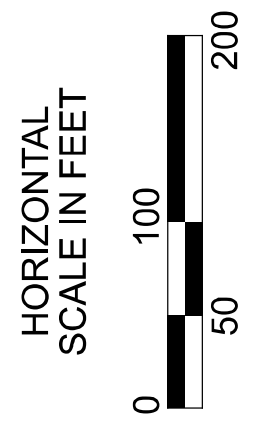


**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-2-29	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-28	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-27	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-26	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-25	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-24	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-23	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-22	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-21	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-20	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-19	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-18	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-17	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-16	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-15	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-14	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-13	1	1	-	-	-	-	-	1	-	-	-	-	-

B-2-12	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-11	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-10	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-9	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-8	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-7	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-6	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-5	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-4	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-3	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-2	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-1	1	1	-	-	-	-	-	1	-	-	-	-	-



Lighting Plan - Location 23a  
 I-70 - Hillard Rome Road to I-270

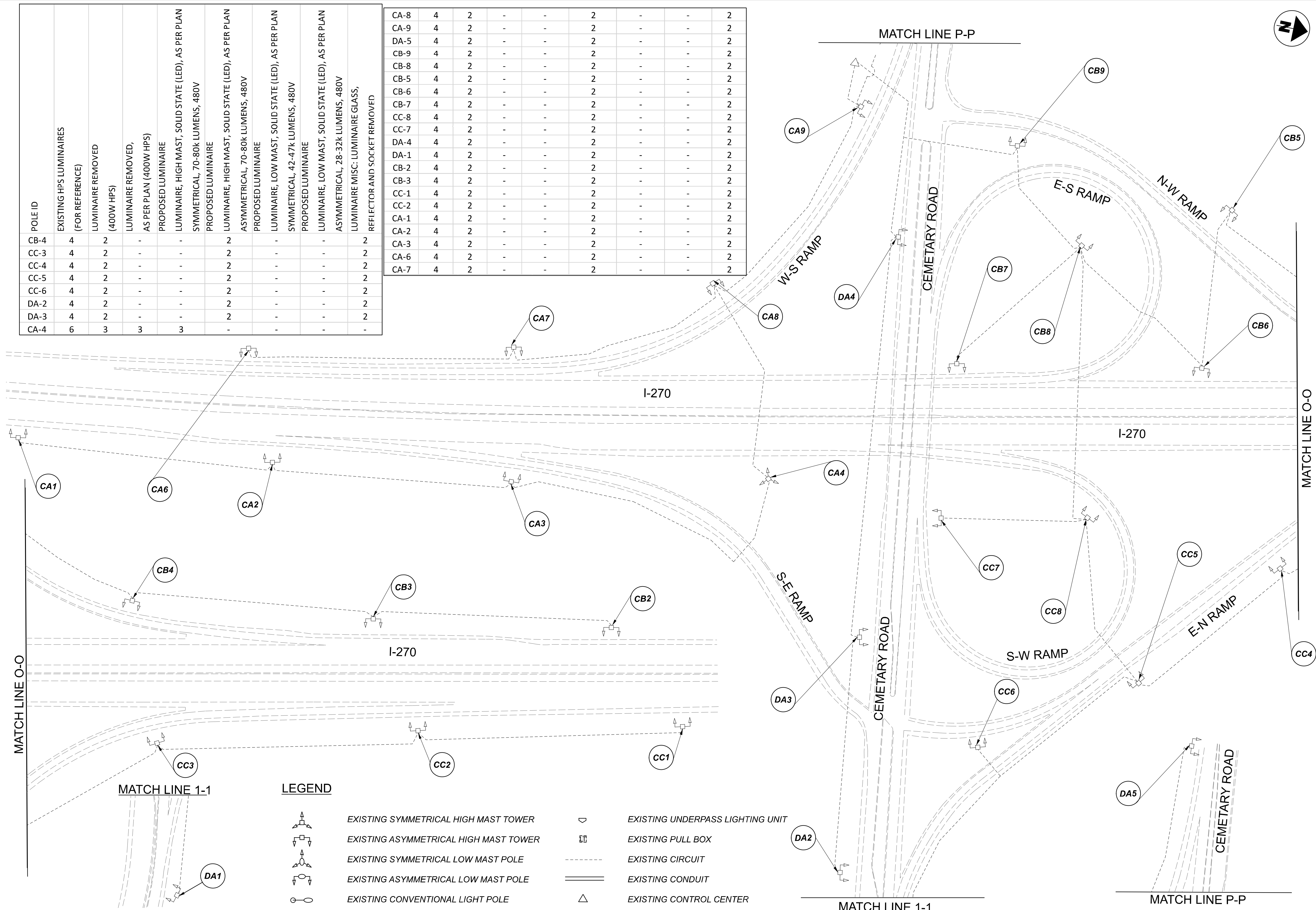
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
3	1
SHEET	TOTAL
P.65	197

D06-Lighting Upgrade FY2021

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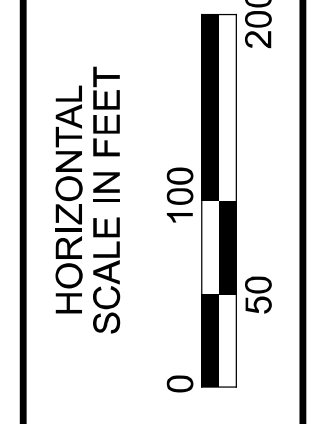
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
CB-4	4	2	-	-	-	2	-	-	-	-	2	-
CC-3	4	2	-	-	-	2	-	-	-	-	2	-
CC-4	4	2	-	-	-	2	-	-	-	-	2	-
CC-5	4	2	-	-	-	2	-	-	-	-	2	-
CC-6	4	2	-	-	-	2	-	-	-	-	2	-
DA-2	4	2	-	-	-	2	-	-	-	-	2	-
DA-3	4	2	-	-	-	2	-	-	-	-	2	-
CA-4	6	3	3	3	-	-	-	-	-	-	-	-

CA-8	4	2	-	-	2	-	-	2	-	-	2	-
CA-9	4	2	-	-	2	-	-	2	-	-	2	-
DA-5	4	2	-	-	2	-	-	2	-	-	2	-
CB-9	4	2	-	-	2	-	-	2	-	-	2	-
CB-8	4	2	-	-	2	-	-	2	-	-	2	-
CB-5	4	2	-	-	2	-	-	2	-	-	2	-
CB-6	4	2	-	-	2	-	-	2	-	-	2	-
CB-7	4	2	-	-	2	-	-	2	-	-	2	-
CC-8	4	2	-	-	2	-	-	2	-	-	2	-
CC-7	4	2	-	-	2	-	-	2	-	-	2	-
DA-4	4	2	-	-	2	-	-	2	-	-	2	-
DA-1	4	2	-	-	2	-	-	2	-	-	2	-
CB-2	4	2	-	-	2	-	-	2	-	-	2	-
CB-3	4	2	-	-	2	-	-	2	-	-	2	-
CC-1	4	2	-	-	2	-	-	2	-	-	2	-
CC-2	4	2	-	-	2	-	-	2	-	-	2	-
CA-1	4	2	-	-	2	-	-	2	-	-	2	-
CA-2	4	2	-	-	2	-	-	2	-	-	2	-
CA-3	4	2	-	-	2	-	-	2	-	-	2	-
CA-6	4	2	-	-	2	-	-	2	-	-	2	-
CA-7	4	2	-	-	2	-	-	2	-	-	2	-



**LEGEND**

	EXISTING SYMMETRICAL HIGH MAST TOWER		EXISTING UNDERPASS LIGHTING UNIT
	EXISTING ASYMMETRICAL HIGH MAST TOWER		EXISTING PULL BOX
	EXISTING SYMMETRICAL LOW MAST POLE		EXISTING CIRCUIT
	EXISTING ASYMMETRICAL LOW MAST POLE		EXISTING CONDUIT
	EXISTING CONVENTIONAL LIGHT POLE		EXISTING CONTROL CENTER




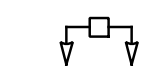
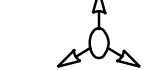
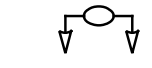
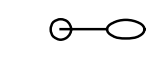

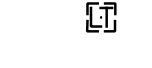
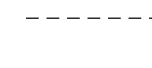

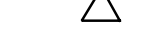
Lighting Plan - Location 26  
I-270 and Cemetery Road

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.66	197

D06-Lighting Upgrade FY2021

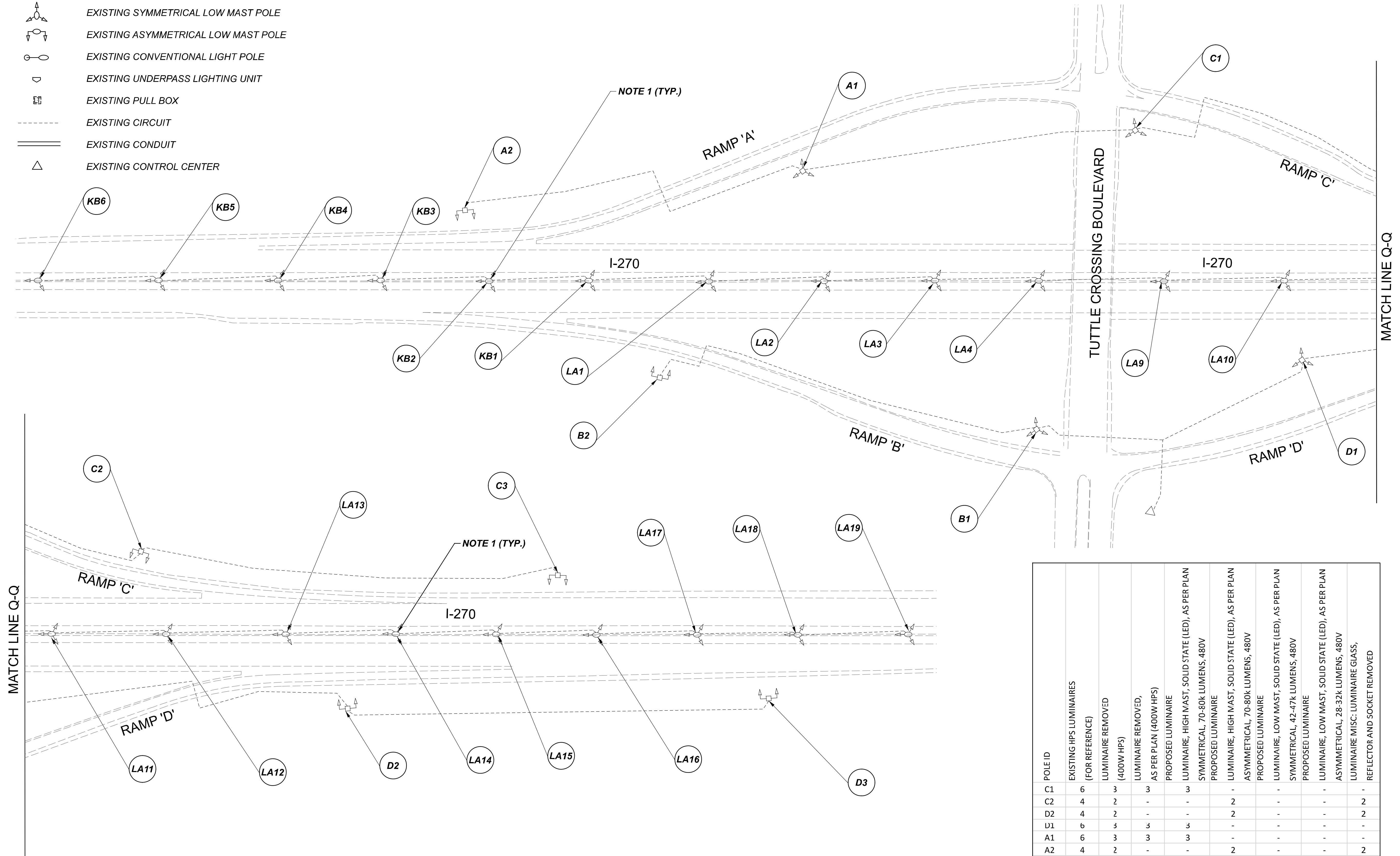
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LEGEND

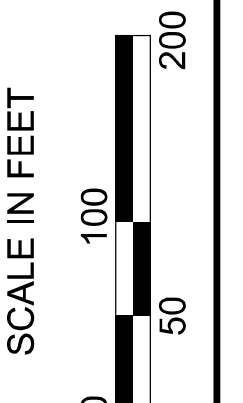
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTES:

1. EXISTING MEDIAN MOUNTED LIGHT POLES ARE LED, NO WORK NEEDED.



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C1	6	3	3	3	-	-	-	-	-	-	-	-
C2	4	2	-	-	-	2	-	-	-	-	-	2
D2	4	2	-	-	-	2	-	-	-	-	-	2
U1	6	3	3	3	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-
A2	4	2	-	-	-	2	-	-	-	-	-	2
B2	4	2	-	-	-	2	-	-	-	-	-	2
B1	6	3	3	3	-	-	-	-	-	-	-	-
C3	4	2	-	-	-	2	-	-	-	-	-	2
D3	4	2	-	-	-	2	-	-	-	-	-	2



Lighting Plan - Location 27  
 I-270 and Tuttle Boulevard

DESIGN AGENCY

**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

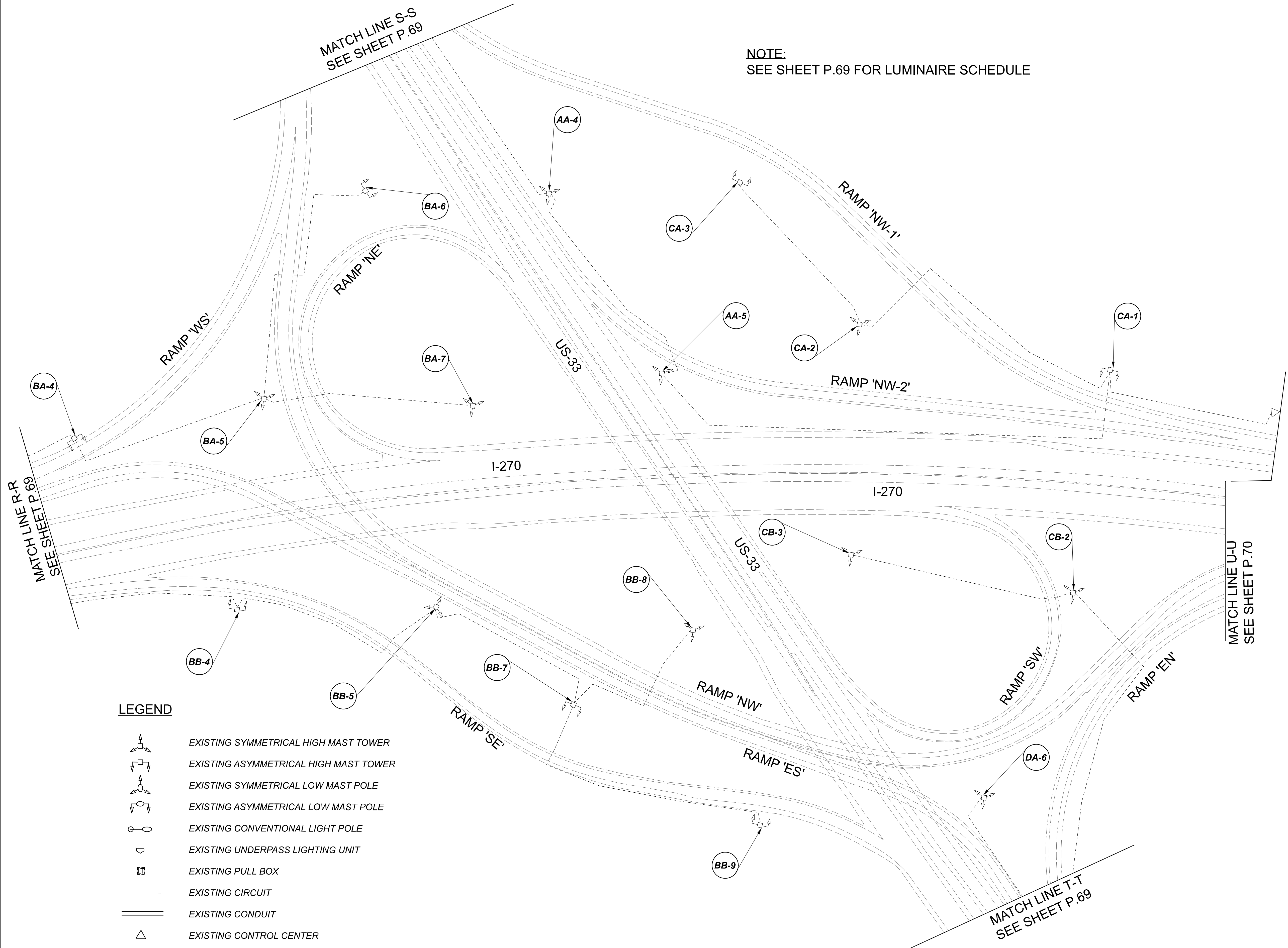
112676

SUBSET TOTAL

1 1

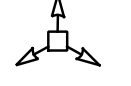
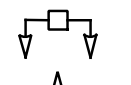
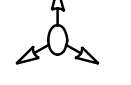
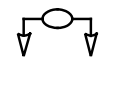
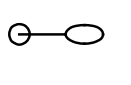


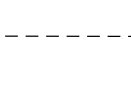
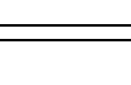

SHEET TOTAL

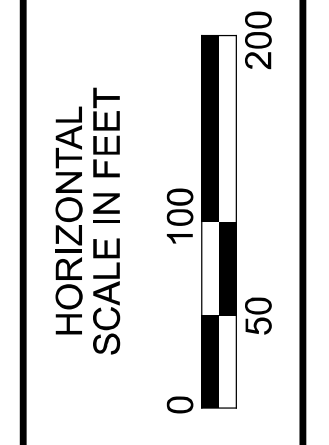
P.67 197



NOTE:  
SEE SHEET P.69 FOR LUMINAIRE SCHEDULE

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 28  
I-270 and US-33

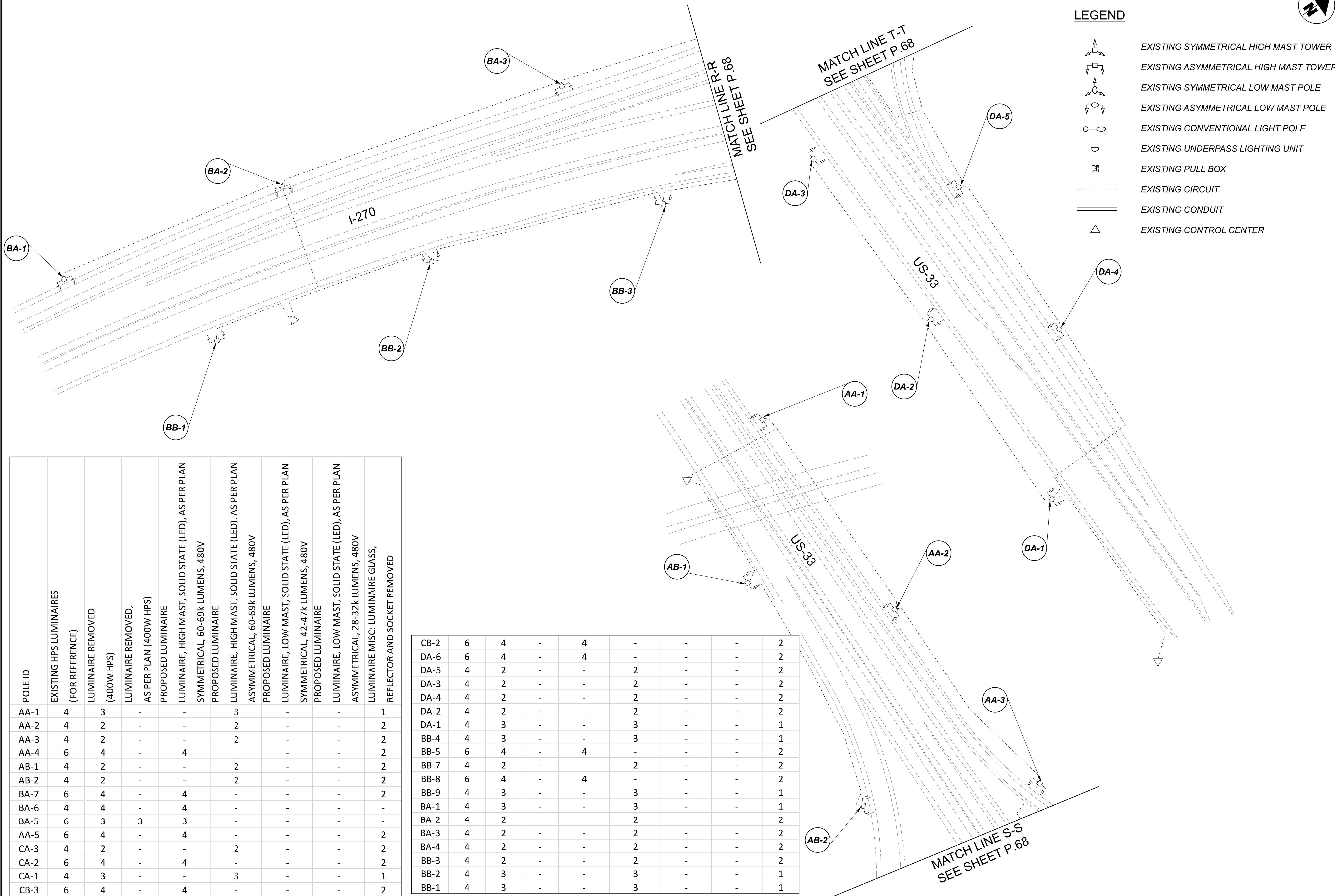
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.68	197

D06-Lighting Upgrade FY2021

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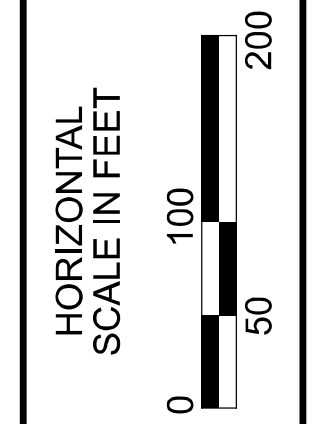
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	3	-	-	3	-	-	-	-	-	-	1
AA-2	4	2	-	-	2	-	-	-	-	-	-	2
AA-3	4	2	-	-	2	-	-	-	-	-	-	2
AA-4	6	4	-	4	-	-	-	-	-	-	-	2
AB-1	4	2	-	-	2	-	-	-	-	-	-	2
AB-2	4	2	-	-	2	-	-	-	-	-	-	2
BA-7	6	4	-	4	-	-	-	-	-	-	-	2
BA-6	4	4	-	4	-	-	-	-	-	-	-	-
BA-5	6	3	3	3	-	-	-	-	-	-	-	-
AA-5	6	4	-	4	-	-	-	-	-	-	-	2
CA-3	4	2	-	-	2	-	-	-	-	-	-	2
CA-2	6	4	-	4	-	-	-	-	-	-	-	2
CA-1	4	3	-	-	3	-	-	-	-	-	-	1
CB-3	6	4	-	4	-	-	-	-	-	-	-	2

CB-2	6	4	-	4	-	-	-	2
DA-6	6	4	-	4	-	-	-	2
DA-5	4	2	-	-	2	-	-	2
DA-3	4	2	-	-	2	-	-	2
DA-4	4	2	-	-	2	-	-	2
DA-2	4	2	-	-	2	-	-	2
DA-1	4	3	-	-	3	-	-	1
BB-4	4	3	-	-	3	-	-	1
BB-5	6	4	-	4	-	-	-	2
BB-7	4	2	-	-	2	-	-	2
BB-8	6	4	-	4	-	-	-	2
BB-9	4	3	-	-	3	-	-	1
BA-1	4	3	-	-	3	-	-	1
BA-2	4	2	-	-	2	-	-	2
BA-3	4	2	-	-	2	-	-	2
BA-4	4	2	-	-	2	-	-	2
BB-3	4	2	-	-	2	-	-	2
BB-2	4	3	-	-	3	-	-	1
BB-1	4	3	-	-	3	-	-	1



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 28  
I-270 and US-33

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.69	197

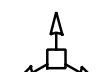
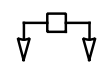
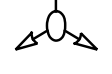




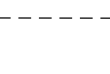


D06-Lighting Upgrade FY2021

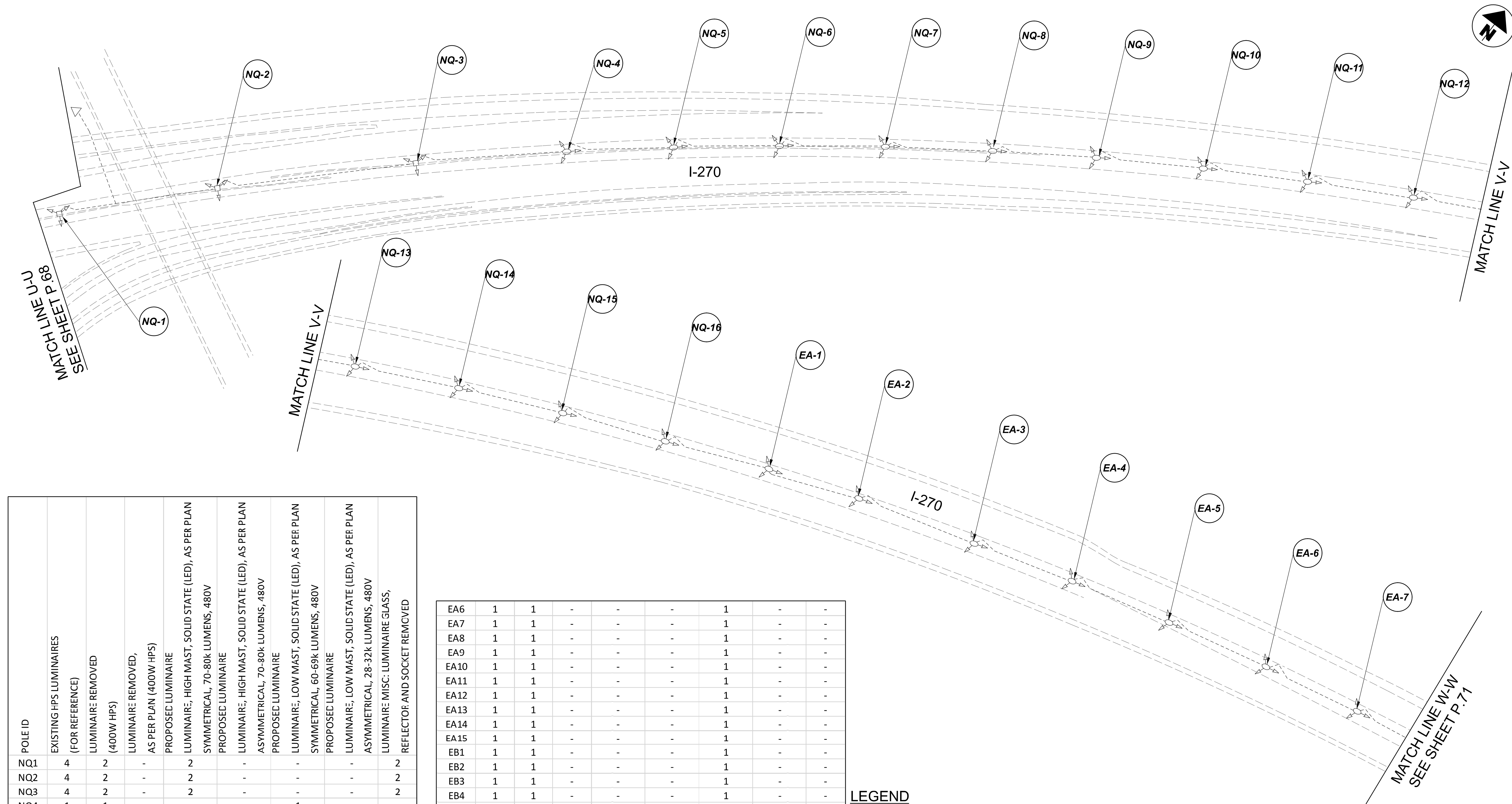
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE: HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
NQ1	4	2	-	2	-	-	-	-	-	-	1	-	-	-	-	2
NQ2	4	2	-	2	-	-	-	-	-	-	1	-	-	-	-	2
NQ3	4	2	-	2	-	-	-	-	-	-	1	-	-	-	-	2
NQ4	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ5	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ6	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ7	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ8	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ9	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ10	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ11	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ12	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ13	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ14	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ15	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NQ16	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA2	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA3	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA4	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA5	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-

EA6	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA7	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA8	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA9	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA10	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA11	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA12	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA13	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA14	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EA15	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
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EB2	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB3	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB4	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB5	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB6	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB7	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB8	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB9	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB10	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB11	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB12	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB13	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB14	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB15	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB16	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB17	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EB18	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 29  
I-270 and Sawmill Road

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
1	2



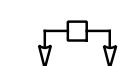

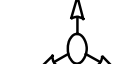

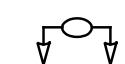

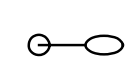

SHEET	TOTAL
P.70	197



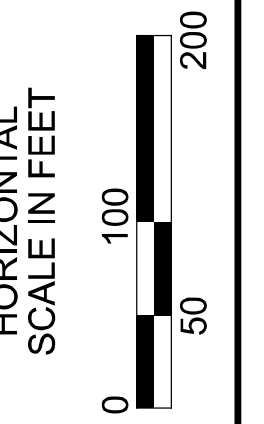
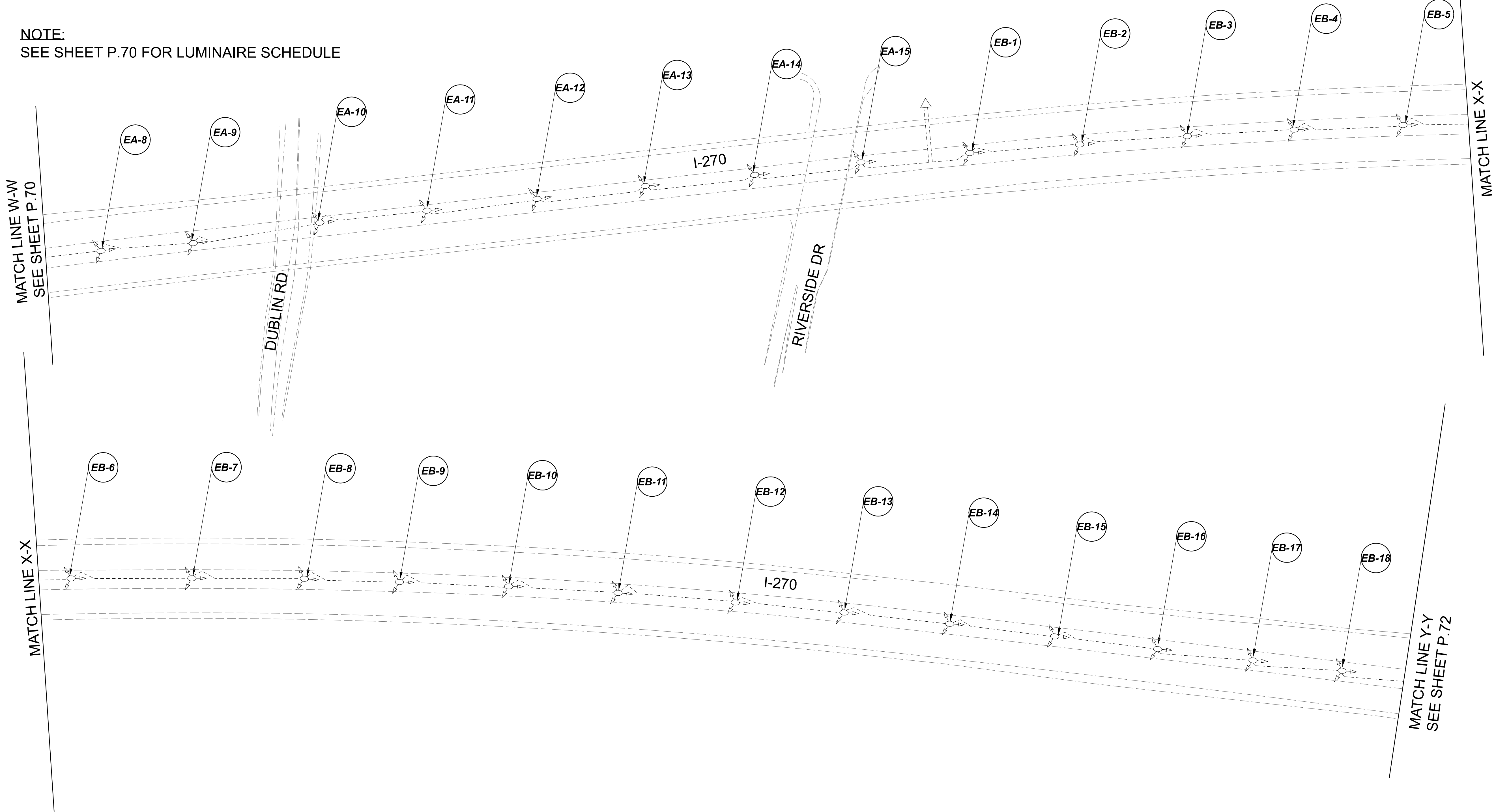
D06-Lighting Upgrade FY2021

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**LEGEND**

- |   |                                       |   |                                  |
|---|---------------------------------------|---|----------------------------------|
|  | EXISTING SYMMETRICAL HIGH MAST TOWER  |  | EXISTING UNDERPASS LIGHTING UNIT |
|  | EXISTING ASYMMETRICAL HIGH MAST TOWER |  | EXISTING PULL BOX                |
|  | EXISTING SYMMETRICAL LOW MAST POLE    |  | EXISTING CIRCUIT                 |
|  | EXISTING ASYMMETRICAL LOW MAST POLE   |  | EXISTING CONDUIT                 |
|  | EXISTING CONVENTIONAL LIGHT POLE      |  | EXISTING CONTROL CENTER          |

**NOTE:**  
 SEE SHEET P.70 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 29  
 I-270 and Sawmill Road

DESIGN AGENCY



DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

SUBSET	TOTAL
2	2

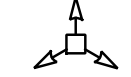
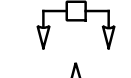
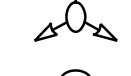
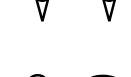






SHEET	TOTAL
P.71	197

D06-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE 34x22 (in.) DATE 3/10/2022 TIME 12:55:38 PM USER vnunez  
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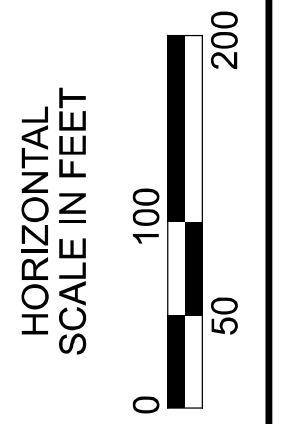
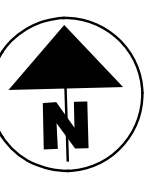
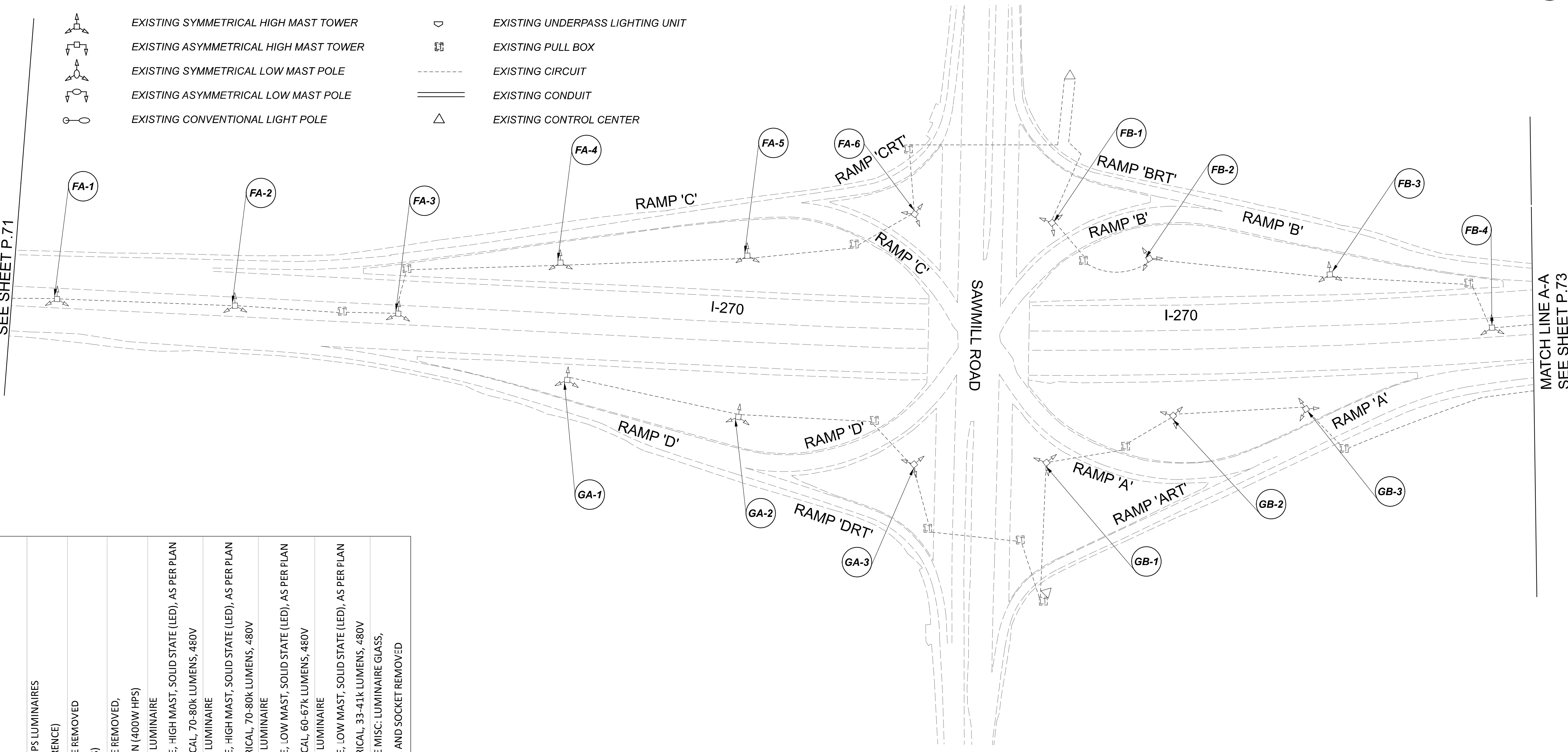
MATCH LINE Y-Y  
SEE SHEET P.71

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-67k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 33-41k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
FA1	4	2	-	2	-	-	-	-	-	-	-	2
FA2	4	2	-	2	-	-	-	-	-	-	-	2
FA3	4	2	-	2	-	-	-	-	-	-	-	2
FA4	4	2	-	2	-	-	-	-	-	-	-	2
FA5	4	2	-	2	-	-	-	-	-	-	-	2
FA6	6	2	-	2	-	-	-	-	-	-	-	4
GA1	4	2	-	2	-	-	-	-	-	-	-	2
GA2	4	2	-	2	-	-	-	-	-	-	-	2
GA3	6	2	-	2	-	-	-	-	-	-	-	4
FB1	6	2	-	2	-	-	-	-	-	-	-	4
FB2	4	2	-	2	-	-	-	-	-	-	-	2
FB3	4	2	-	2	-	-	-	-	-	-	-	2
FB4	4	2	-	2	-	-	-	-	-	-	-	2
FB5	4	2	-	2	-	-	-	-	-	-	-	2

FB6	4	2	-	2	-	-	-	-	-	-	-	2
GB1	6	2	-	2	-	-	-	-	-	-	-	4
GB2	4	2	-	2	-	-	-	-	-	-	-	2
GB3	4	2	-	2	-	-	-	-	-	-	-	2
GB4	1	1	-	-	-	-	-	-	-	-	-	-
GB5	1	1	-	-	-	-	-	-	-	-	-	-
GB6	1	1	-	-	-	-	-	-	-	-	-	-
GB7	1	1	-	-	-	-	-	-	-	-	-	-
GB8	1	1	-	-	-	-	-	-	-	-	-	-
GB9	1	1	-	-	-	-	-	-	-	-	-	-
GB10	1	1	-	-	-	-	-	-	-	-	-	-
GB11	1	1	-	-	-	-	-	-	-	-	-	-
GB12	1	1	-	-	-	-	-	-	-	-	-	-
GB13	1	1	-	-	-	-	-	-	-	-	-	-
GB14	1	1	-	-	-	-	-	-	-	-	-	-

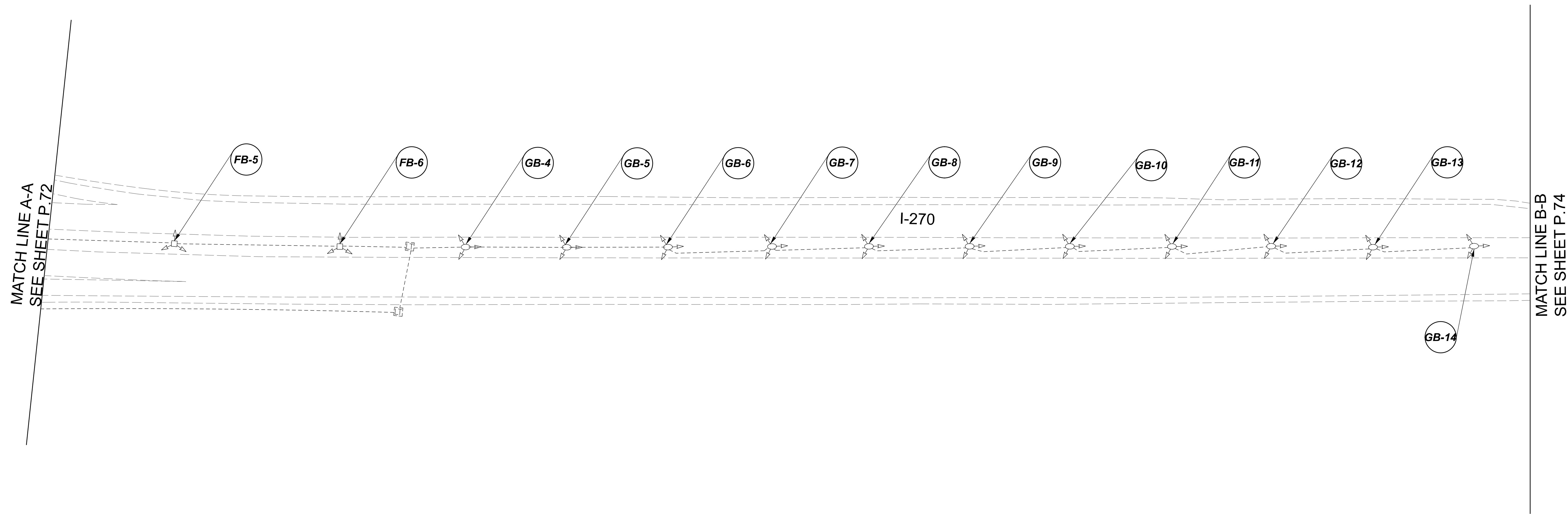


Lighting Plan - Location 30  
I-270 - Sawmill Road to S.R. 315

DESIGN AGENCY	<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN	
REVIEWER	SG 03/11/22	
PROJECT ID	112676	
SUBSET	TOTAL	
1	2	
SHEET	TOTAL	
P.72	197	

D06-Lighting Upgrade FY2021

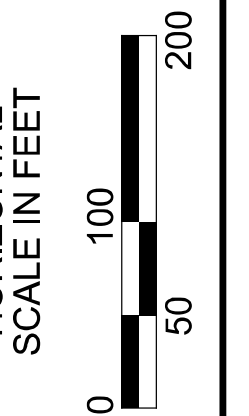
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NOTE:  
SEE SHEET P.72 FOR LUMINAIRE SCHEDULE

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 30  
I-270 - Sawmill Road to S.R. 315

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

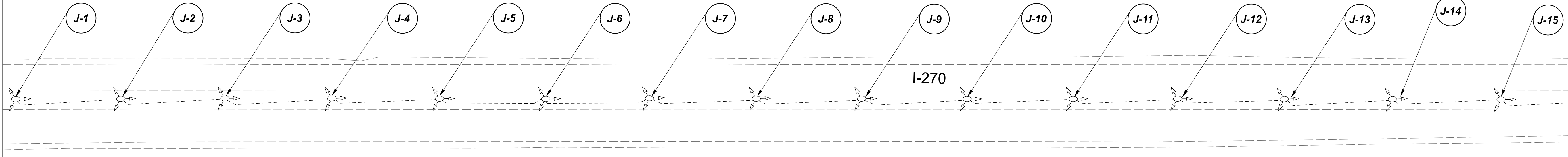
REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.73	197

MATCH LINE B-B  
SEE SHEET P.73

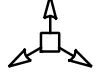
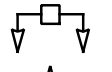
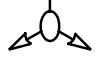

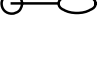


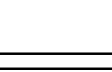




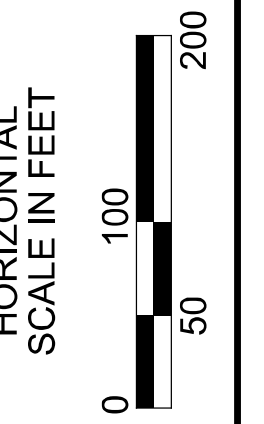
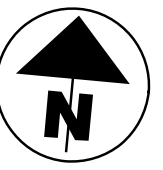
MATCH LINE C-C  
SEE SHEET P.75

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400/750W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
J-1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-2	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-3	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-4	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-5	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-6	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-7	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-8	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-9	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-10	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-11	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-12	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-13	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-14	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-15	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-16	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-17	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-18	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-19	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-20	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-

J-21	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-22	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-23	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-24	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-25	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-26	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-27	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-28	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-29	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-3	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-5	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-7	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-9	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-11	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-13	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-15	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-17	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-19	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-21	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-23	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-25	4	3	-	-	-	3	-	-	-	-	-	-	-	-	-	1

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 30a  
I-270 - Sawmill Rd to SR-315

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
0	0

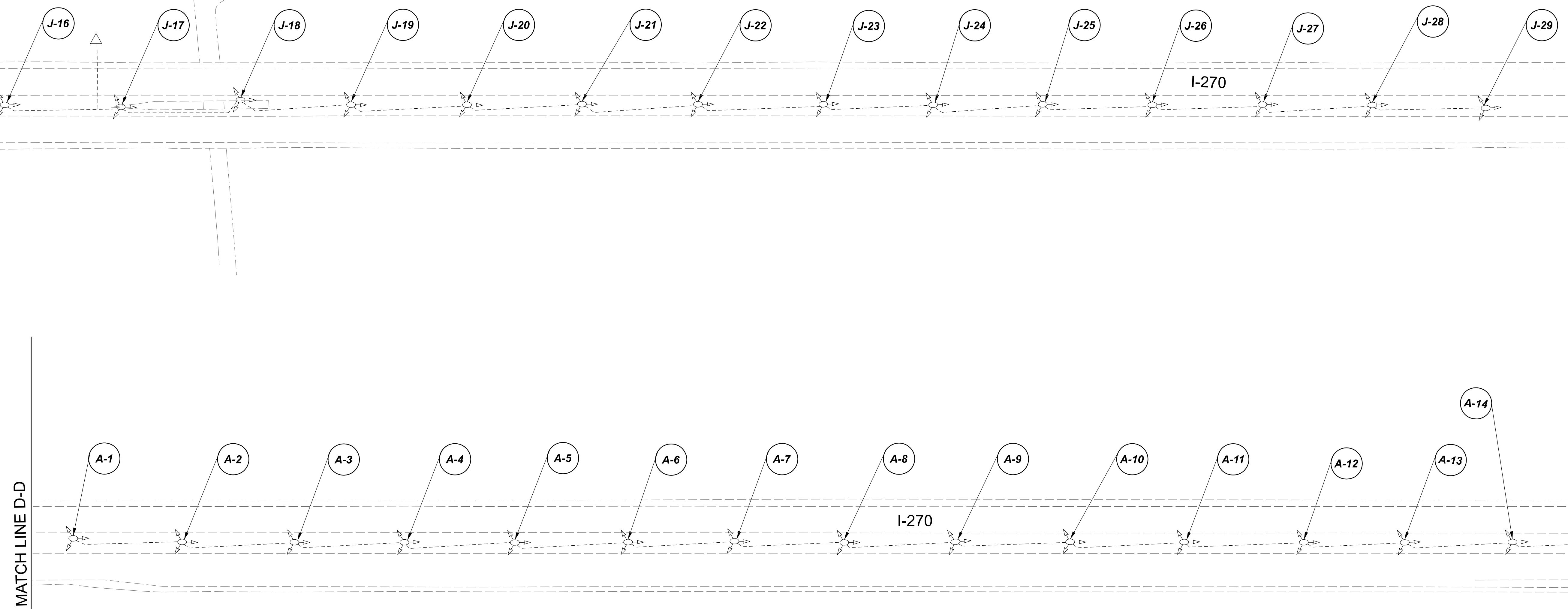
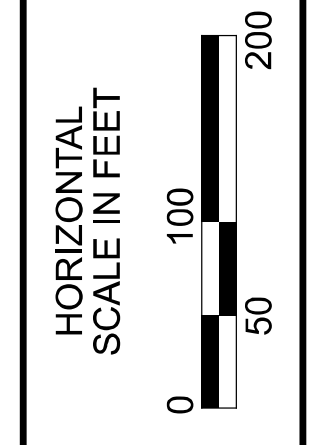
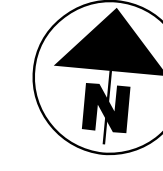
SHEET	TOTAL
P.74	197

MATCH LINE C-C  
SEE SHEET P.74

MATCH LINE D-D

MATCH LINE D-D

MATCH LINE E-E  
SEE SHEET P.76



**NOTE:**  
SEE SHEET P.74 FOR LUMINAIRE SCHEDULE

**LEGEND**

- |  |                                       |  |                                  |
|--|---------------------------------------|--|----------------------------------|
|  | EXISTING SYMMETRICAL HIGH MAST TOWER  |  | EXISTING UNDERPASS LIGHTING UNIT |
|  | EXISTING ASYMMETRICAL HIGH MAST TOWER |  | EXISTING PULL BOX                |
|  | EXISTING SYMMETRICAL LOW MAST POLE    |  | EXISTING CIRCUIT                 |
|  | EXISTING ASYMMETRICAL LOW MAST POLE   |  | EXISTING CONDUIT                 |
|  | EXISTING CONVENTIONAL LIGHT POLE      |  | EXISTING CONTROL CENTER          |

Lighting Plan - Location 30a  
I-270 - Sawmill Rd to SR-315

DESIGN AGENCY



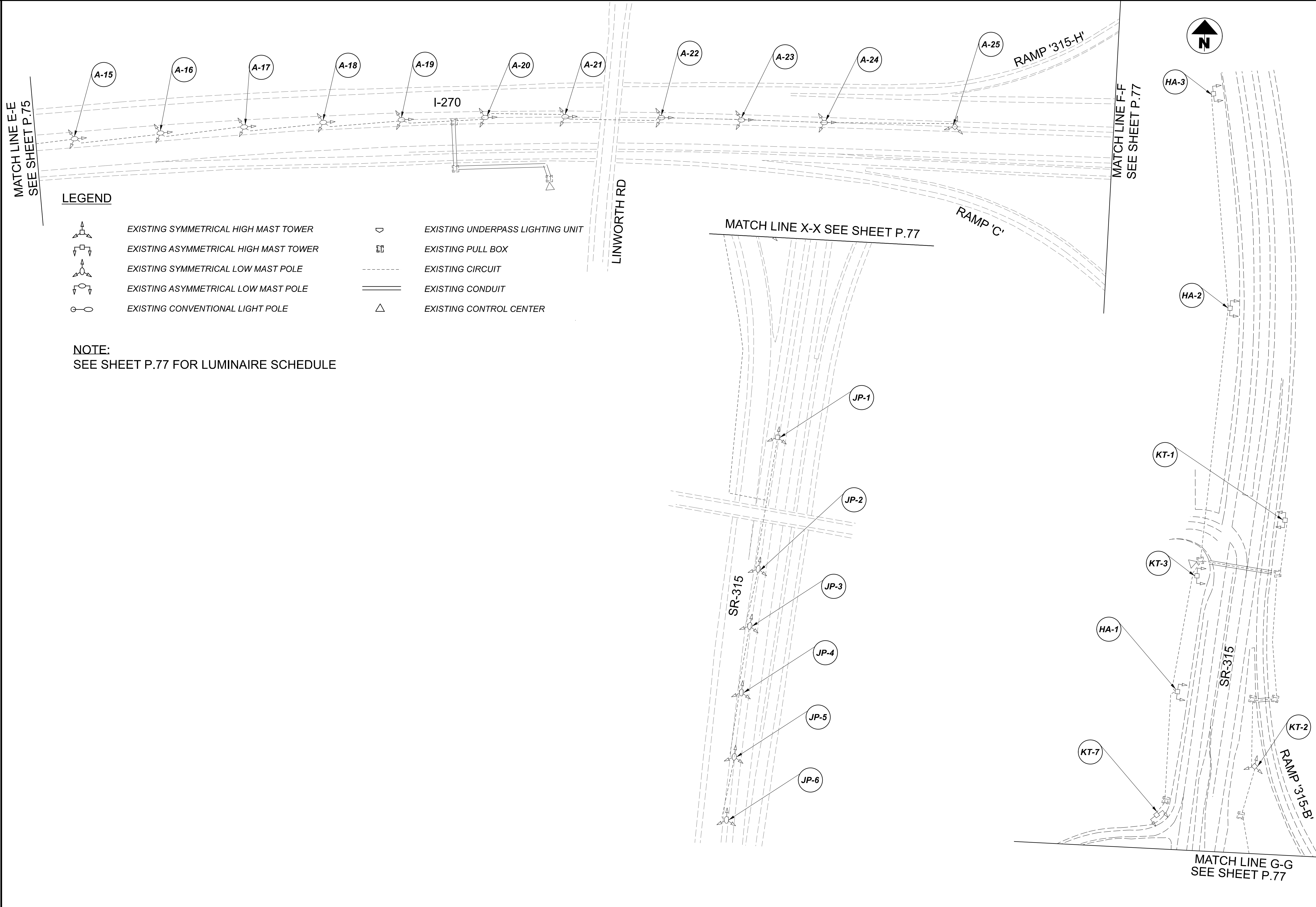
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
0	0

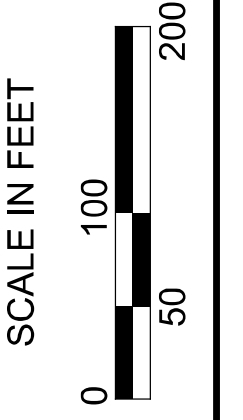
SHEET	TOTAL
P.75	197



**LEGEND**

- |  |                                       |  |                                  |
|--|---------------------------------------|--|----------------------------------|
|  | EXISTING SYMMETRICAL HIGH MAST TOWER  |  | EXISTING UNDERPASS LIGHTING UNIT |
|  | EXISTING ASYMMETRICAL HIGH MAST TOWER |  | EXISTING PULL BOX                |
|  | EXISTING SYMMETRICAL LOW MAST POLE    |  | EXISTING CIRCUIT                 |
|  | EXISTING ASYMMETRICAL LOW MAST POLE   |  | EXISTING CONDUIT                 |
|  | EXISTING CONVENTIONAL LIGHT POLE      |  | EXISTING CONTROL CENTER          |

**NOTE:**  
SEE SHEET P.77 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 30a  
I-270 - Sawmill Rd to SR-315

DESIGN AGENCY

**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
0	0

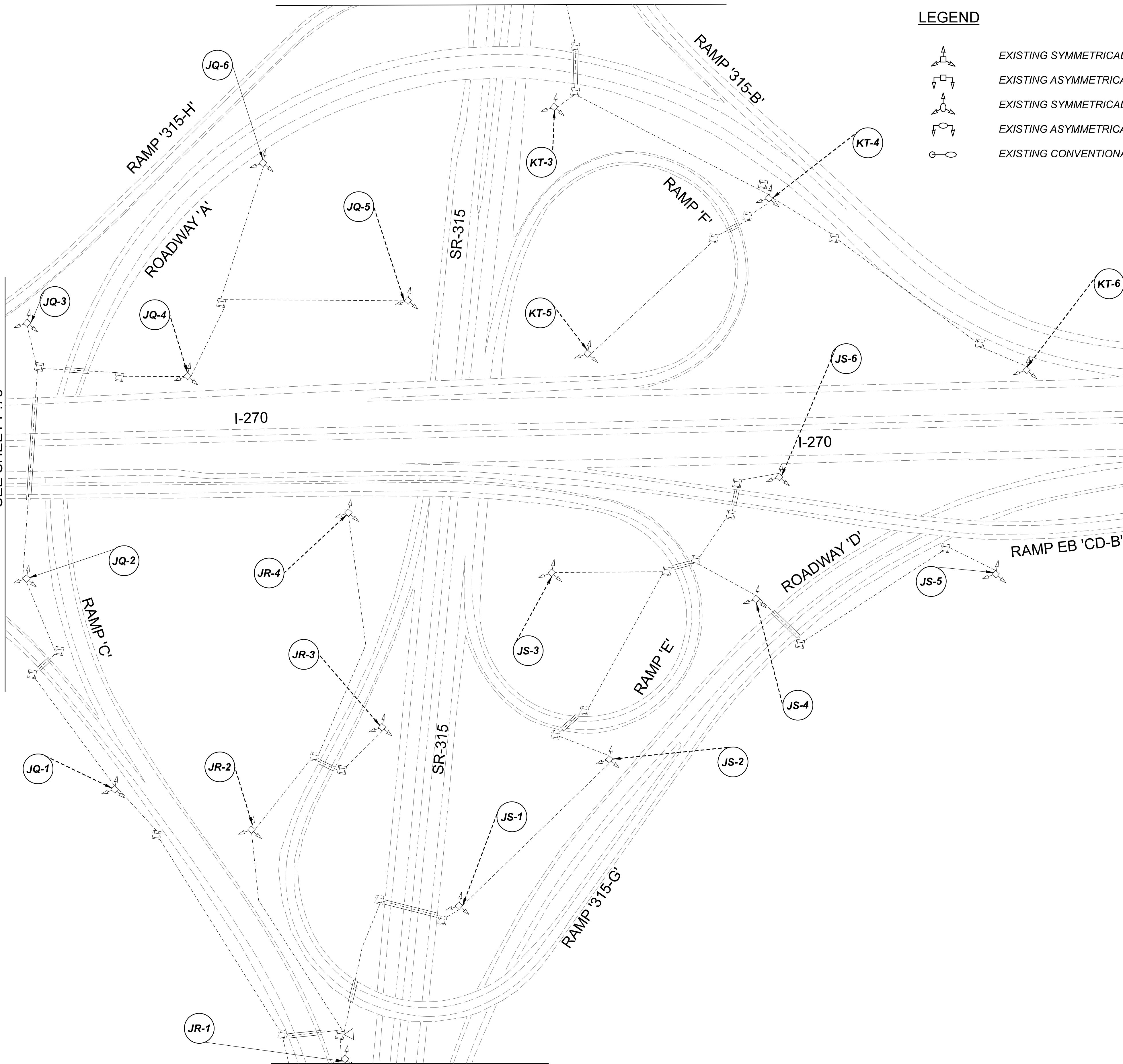
SHEET	TOTAL
P.76	197

D06-Lighting Upgrade FY2021

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MATCH LINE F-F  
SEE SHEET P.76

MATCH LINE G-G SEE SHEET P.76



MATCH LINE X-X SEE SHEET P.76

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
JR-1	6	3	3	3												
JR-2	6	3	3	3												
JR-4	6	3	3	3												
JS-1	6	3	3	3												
JS-2	6	3	3	3												
JS-3	6	3	3	3												
JS-4	4	3	-	3												1
JS-5	4	3	-	3												1
JS-6	6	3	3	3												
JQ-1	4	3	-	3												1
JQ-2	6	3	3	3												
JQ-3	6	3	3	3												
JQ-4	6	3	3	3												
JQ-5	6	3	3	3												
JQ-6	6	3	3	3												
KT-1	4	2	-	-	2											2
KT-2	6	3	3	3												
KT-3	6	3	3	3												
KT-4	6	3	3	3												
KT-5	6	3	3	3												
KT-6	6	3	3	3												
KT-7	4	2	-	-	2											2
JR-3	6	3	3	3												
JP-1	6	3	3	3												
JP-2	1	1	-	-						1						
JP-3	1	1	-	-						1						
JP-4	1	1	-	-						1						
JP-5	1	1	-	-						1						
JP-6	1	1	-	-						1						
HA2	4	2	-	-	2											2
HA3	4	2	-	-	2											2

Lighting Plan - Location 31  
I-270 and S.R. 315

DESIGN AGENCY  
**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

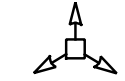
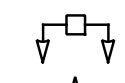
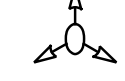
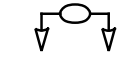
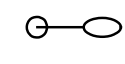





REVIEWER  
SG 03/11/22

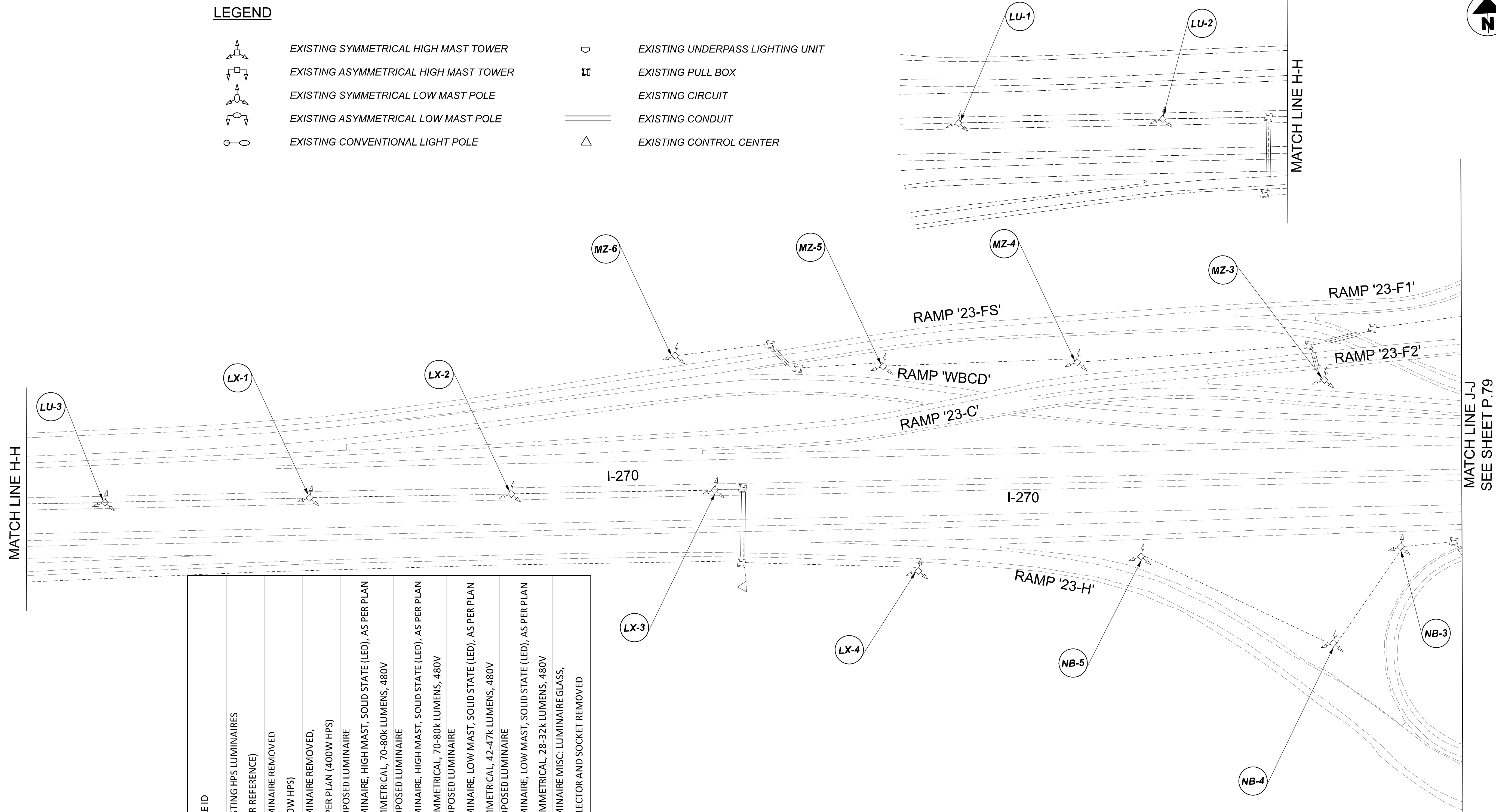
PROJECT ID  
112676

SUBSET	TOTAL
1	1

SHEET	TOTAL
P.77	197

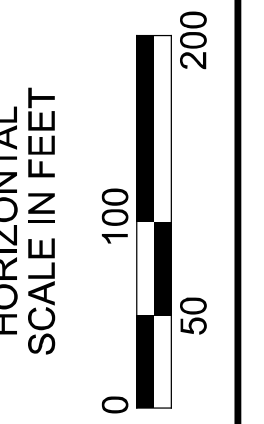
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER




POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
LU-1	6	3	3	3								
LU-2	6	3	3	3								
LU-3	6	3	3	3								
LX-1	6	3	3	3								
LX-2	6	3	3	3								
LX-3	6	3	3	3								
LX-4	4	3	-	3								1
MV-1	6	3	3	3								
MV-2	6	3	3	3								
MV-3	6	3	3	3								
MV-4	6	3	3	3								
MY-1	6	3	3	3								
MY-2	6	3	3	3								
MY-3	6	3	3	3								
MY-4	6	3	3	3								

MZ-1	6	3	3	3	-	-	-	-
MZ-2	6	3	3	3	-	-	-	-
MZ-3	6	3	3	3	-	-	-	-
MZ-4	6	3	3	3	-	-	-	-
MZ-5	6	3	3	3	-	-	-	-
MZ-6	4	3	-	3	-	-	-	1
NB-1	6	3	3	3	-	-	-	-
NB-2	6	3	3	3	-	-	-	-
NB-3	4	3	-	3	-	-	-	1
NB-4	4	3	-	3	-	-	-	1
NB-5	6	3	3	3	-	-	-	-
NA-1	6	3	3	3	-	-	-	-
NA-2	4	3	-	3	-	-	-	1
NA-3	6	3	3	3	-	-	-	-
H6	6	3	3	3	-	-	-	-



Lighting Plan - Location 32  
I-270 and US-23

DESIGN AGENCY  
  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

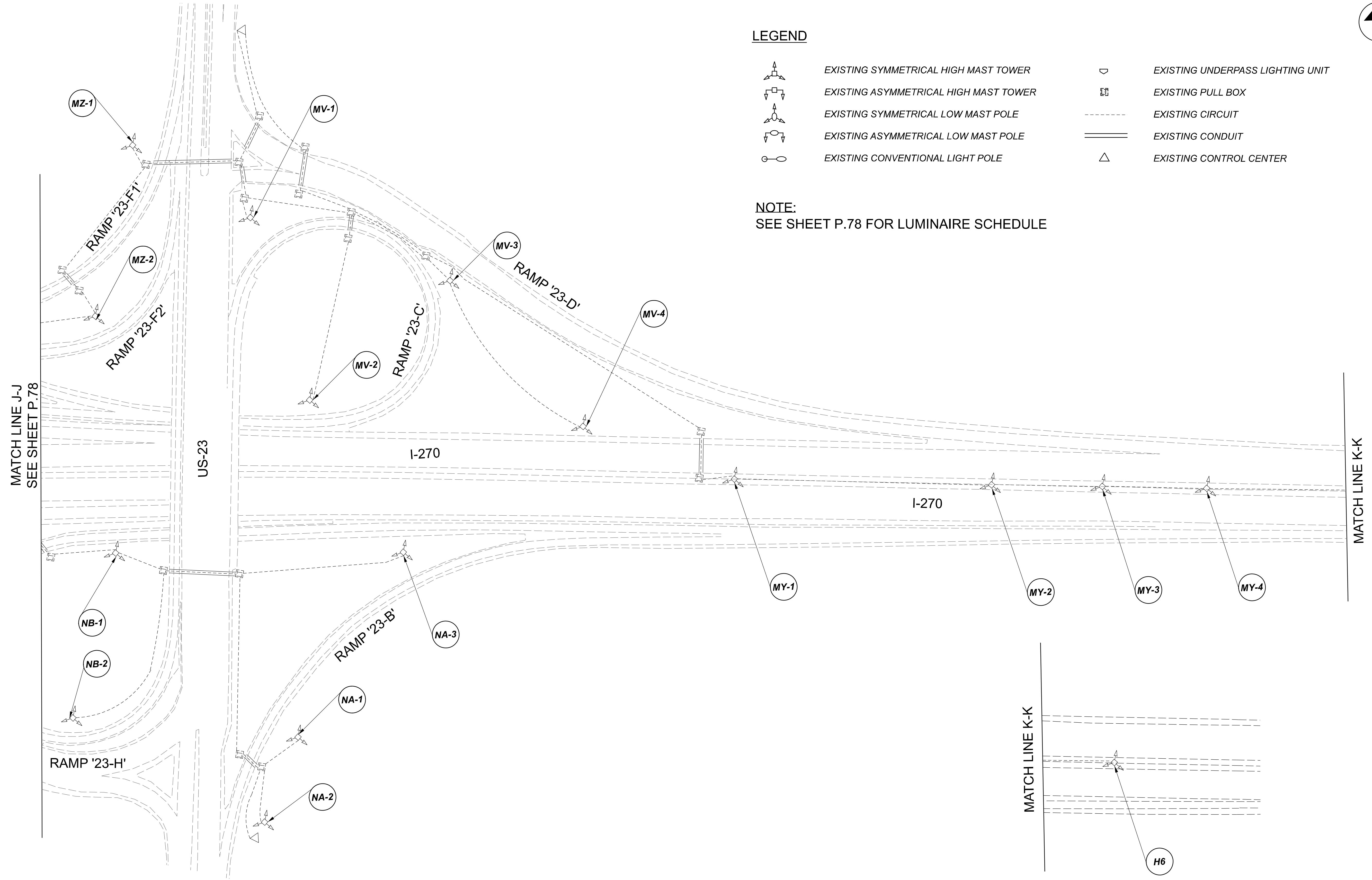
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.78	197








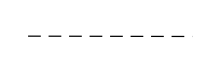
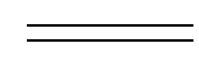



D06-Lighting Upgrade FY2021

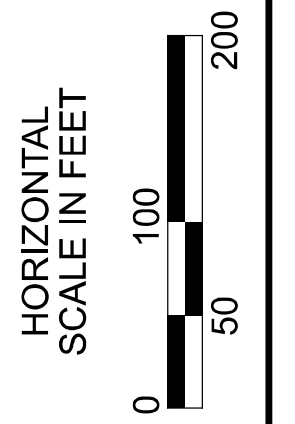
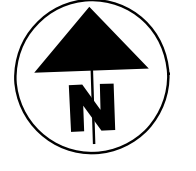
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.78 FOR LUMINAIRE SCHEDULE

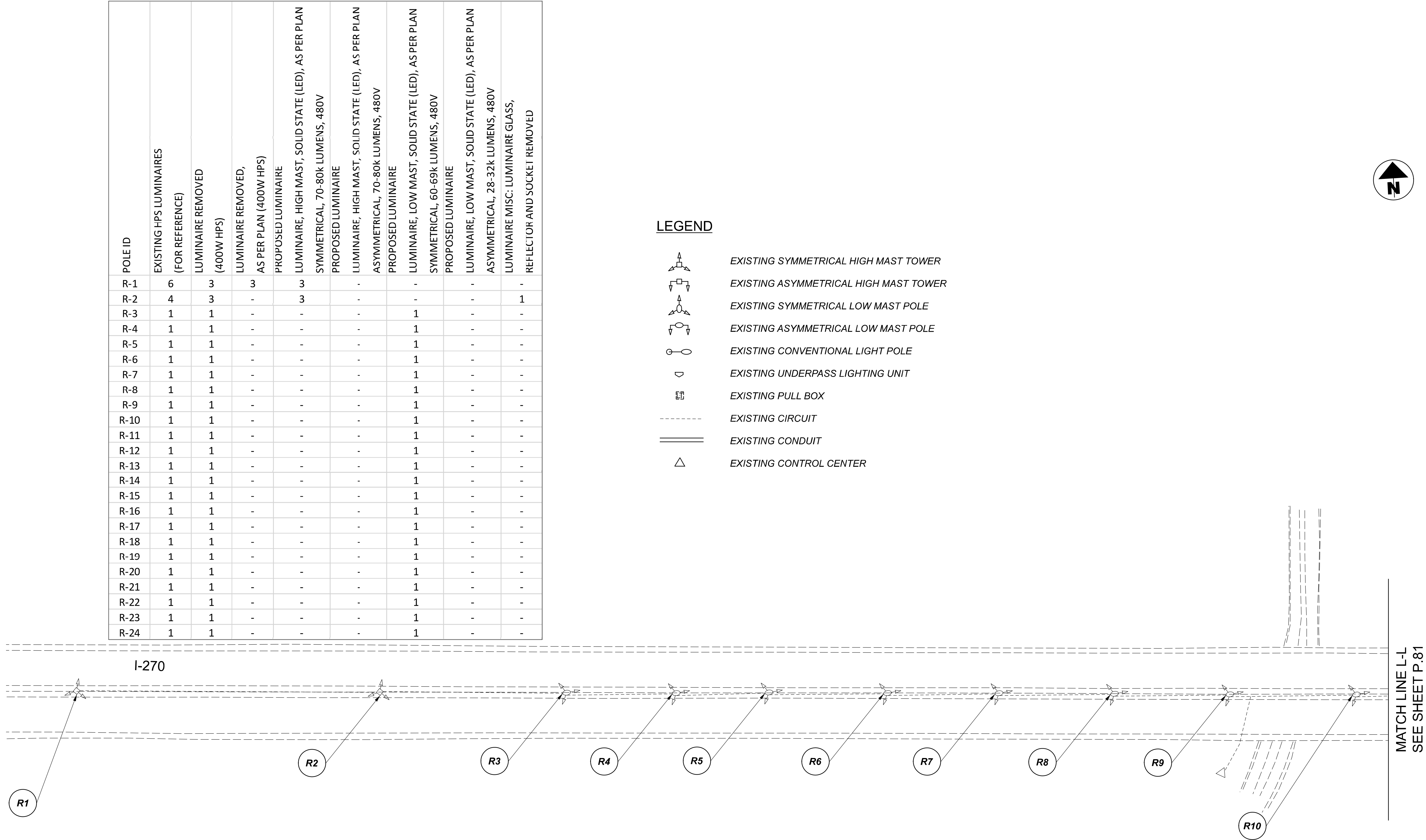


Lighting Plan - Location 32  
 I-270 and US-23

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.79	197

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:10:30 PM USER: vnuinez  
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
R-1	6	3	3	3	3											
R-2	4	3	-	3												1
R-3	1	1	-							1						
R-4	1	1	-							1						
R-5	1	1	-							1						
R-6	1	1	-							1						
R-7	1	1	-							1						
R-8	1	1	-							1						
R-9	1	1	-							1						
R-10	1	1	-							1						
R-11	1	1	-							1						
R-12	1	1	-							1						
R-13	1	1	-							1						
R-14	1	1	-							1						
R-15	1	1	-							1						
R-16	1	1	-							1						
R-17	1	1	-							1						
R-18	1	1	-							1						
R-19	1	1	-							1						
R-20	1	1	-							1						
R-21	1	1	-							1						
R-22	1	1	-							1						
R-23	1	1	-							1						
R-24	1	1	-							1						

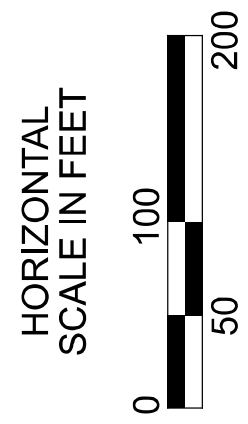
LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

MATCH LINE L-L  
SEE SHEET P.81



Lighting Plan - Location 33  
I-270 - US-23 to I-71



DESIGN AGENCY



DESIGNER  
VN

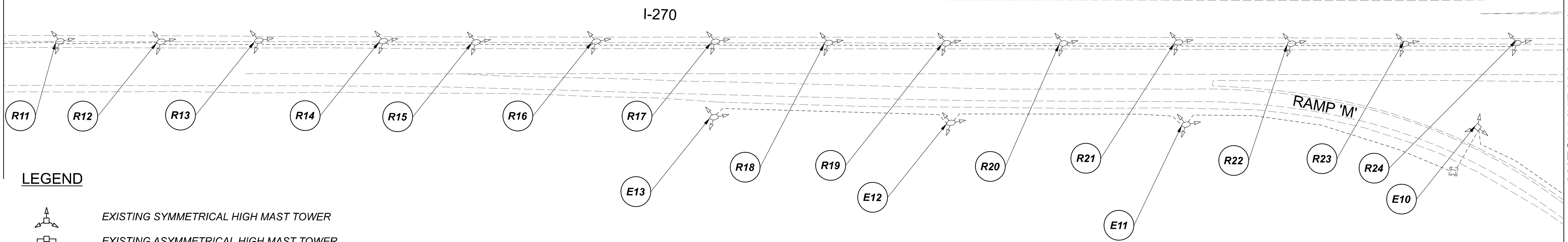
REVIEWER  
SG 03/11/22

PROJECT ID  
112676

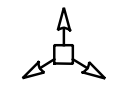
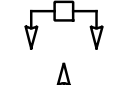
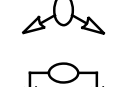
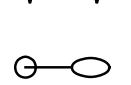


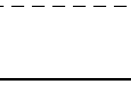



SUBSET	TOTAL
1	2

SHEET	TOTAL
P.80	197

MATCH LINE L-L  
SEE SHEET P.80



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTE:  
SEE SHEET P.80 FOR LUMINAIRE SCHEDULE

MATCH LINE M-M SEE SHEET P.82

Lighting Plan - Location 33  
I-270 - US-23 to I-71

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.81	197

D06-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 12:28:01 PM USER: vnunes

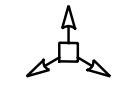
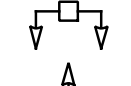
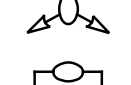
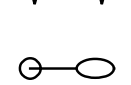






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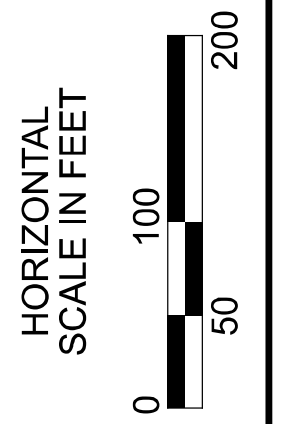
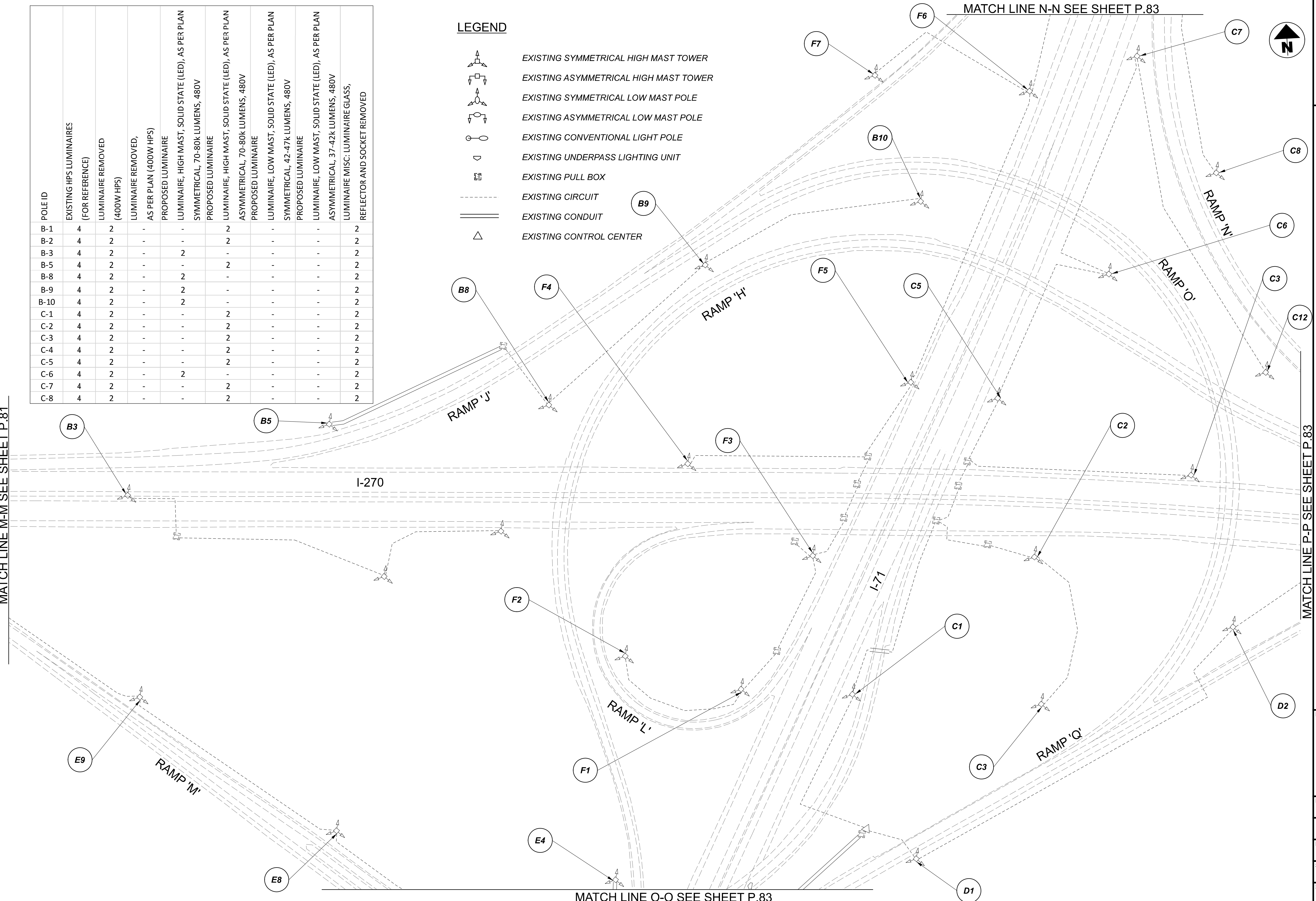
MATCH LINE M-M SEE SHEET P.81

MATCH LINE N-N SEE SHEET P.83

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-1	4	2	-	-	2	-	-	-	-	-	2	2
B-2	4	2	-	-	2	-	-	-	-	-	2	2
B-3	4	2	-	-	2	-	-	-	-	-	2	2
B-5	4	2	-	-	2	-	-	-	-	-	2	2
B-8	4	2	-	-	2	-	-	-	-	-	2	2
B-9	4	2	-	-	2	-	-	-	-	-	2	2
B-10	4	2	-	-	2	-	-	-	-	-	2	2
C-1	4	2	-	-	2	-	-	-	-	-	2	2
C-2	4	2	-	-	2	-	-	-	-	-	2	2
C-3	4	2	-	-	2	-	-	-	-	-	2	2
C-4	4	2	-	-	2	-	-	-	-	-	2	2
C-5	4	2	-	-	2	-	-	-	-	-	2	2
C-6	4	2	-	-	2	-	-	-	-	-	2	2
C-7	4	2	-	-	2	-	-	-	-	-	2	2
C-8	4	2	-	-	2	-	-	-	-	-	2	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 34  
I-270 and I-71

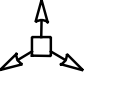
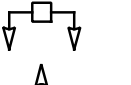
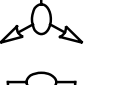
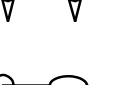



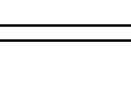

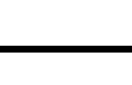
MATCH LINE P-P SEE SHEET P.83

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.82	
TOTAL	197

MATCH LINE P-P SEE SHEET P.82

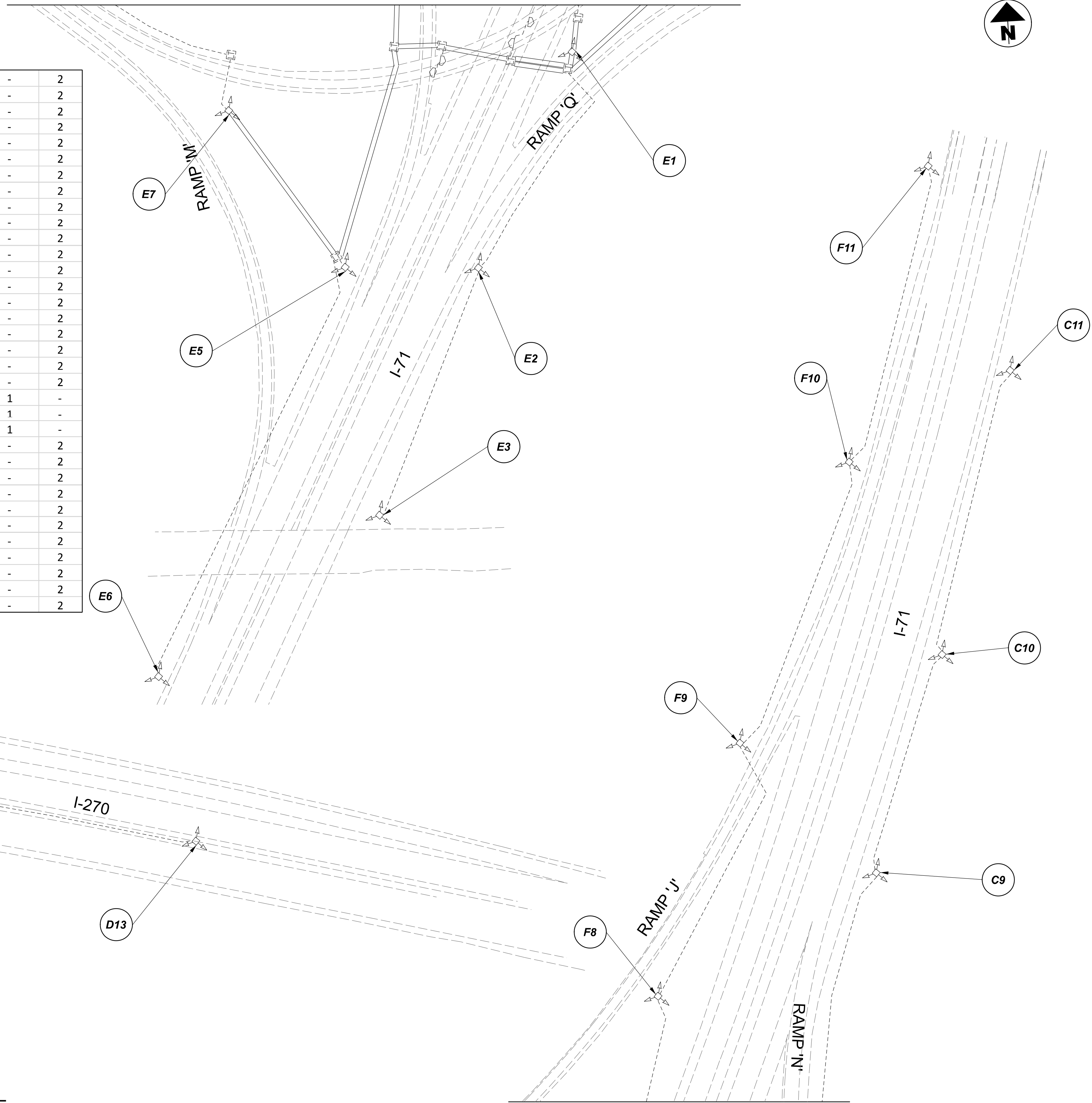
C-9	4	2	-	-	2	-	-	2
C-10	4	2	-	-	2	-	-	2
C-11	4	2	-	-	2	-	-	2
C-12	4	2	-	2	-	-	-	2
D-1	4	2	-	-	2	-	-	2
D-2	4	2	-	2	-	-	-	2
D-3	4	2	-	2	-	-	-	2
D-12	6	4	-	4	-	-	-	2
D-13	6	4	-	4	-	-	-	2
D-19	4	2	-	-	2	-	-	2
E-1	4	2	-	-	2	-	-	2
E-2	4	2	-	-	2	-	-	2
E-3	4	2	-	-	2	-	-	2
E-4	4	2	-	-	2	-	-	2
E-5	4	2	-	-	2	-	-	2
E-6	4	2	-	-	2	-	-	2
E-7	4	2	-	2	-	-	-	2
E-8	4	2	-	-	2	-	-	2
E-9	4	2	-	-	2	-	-	2
E-10	4	2	-	-	2	-	-	2
E-11	1	1	-	-	-	-	1	-
E-12	1	1	-	-	-	-	1	-
E-13	1	1	-	-	-	-	1	-
F-1	4	2	-	-	2	-	-	2
F-2	4	2	-	-	2	-	-	2
F-3	4	2	-	-	2	-	-	2
F-4	4	2	-	-	2	-	-	2
F-5	4	2	-	-	2	-	-	2
F-6	4	2	-	-	2	-	-	2
F-7	4	2	-	-	2	-	-	2
F-8	4	2	-	2	-	-	-	2
F-9	4	2	-	-	2	-	-	2
F-10	4	2	-	-	2	-	-	2
F-11	4	2	-	-	2	-	-	2

**LEGEND**

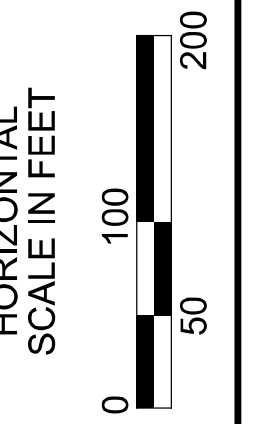
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.82 FOR LUMINAIRE SCHEDULE

MATCH LINE O-O  
SEE SHEET P.82



MATCH LINE N-N SEE SHEET P.82

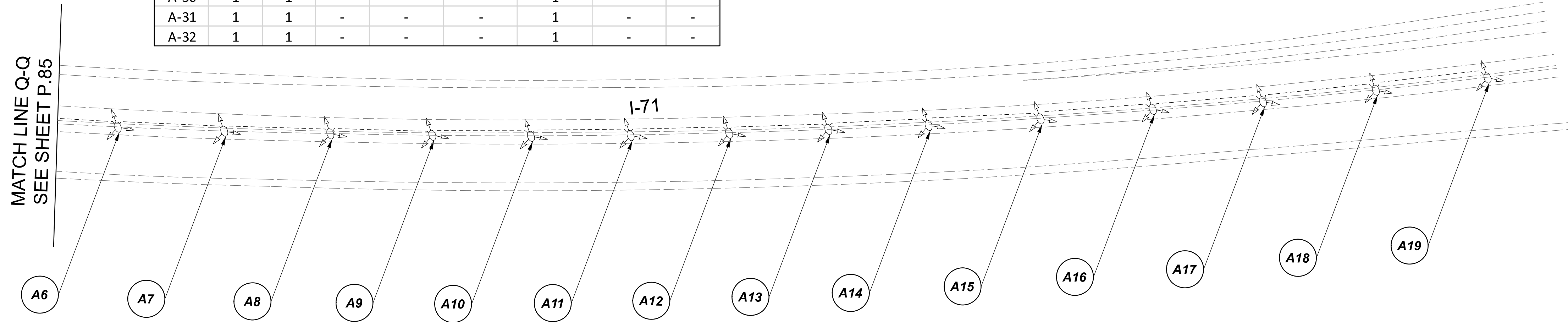


Lighting Plan - Location 34  
I-270 and I-71

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.83	197

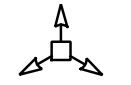
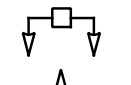
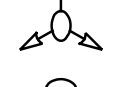




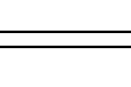


D06-Lighting Upgrade FY2021

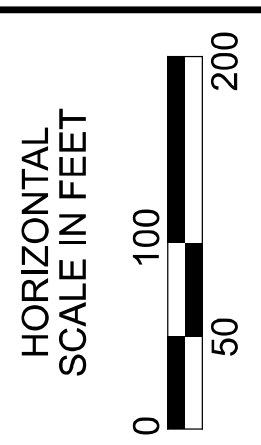
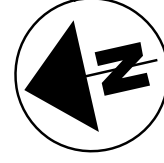
MODEL Sheet PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:28:38 PM USER: vjruhez  
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-70k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	1	-	-	-	-
A-2	1	1	-	-	-	-	-	1	-	-	-	-
A-3	1	1	-	-	-	-	-	1	-	-	-	-
A-4	1	1	-	-	-	-	-	1	-	-	-	-
A-5	1	1	-	-	-	-	-	1	-	-	-	-
A-6	1	1	-	-	-	-	-	1	-	-	-	-
A-7	1	1	-	-	-	-	-	1	-	-	-	-
A-8	1	1	-	-	-	-	-	1	-	-	-	-
A-9	1	1	-	-	-	-	-	1	-	-	-	-
A-10	1	1	-	-	-	-	-	1	-	-	-	-
A-11	1	1	-	-	-	-	-	1	-	-	-	-
A-12	1	1	-	-	-	-	-	1	-	-	-	-
A-13	1	1	-	-	-	-	-	1	-	-	-	-
A-14	1	1	-	-	-	-	-	1	-	-	-	-
A-15	1	1	-	-	-	-	-	1	-	-	-	-
A-16	1	1	-	-	-	-	-	1	-	-	-	-
A-17	1	1	-	-	-	-	-	1	-	-	-	-
A-18	1	1	-	-	-	-	-	1	-	-	-	-
A-19	1	1	-	-	-	-	-	1	-	-	-	-
A-20	1	1	-	-	-	-	-	1	-	-	-	-
A-21	1	1	-	-	-	-	-	1	-	-	-	-
A-22	1	1	-	-	-	-	-	1	-	-	-	-
A-23	1	1	-	-	-	-	-	1	-	-	-	-
A-24	1	1	-	-	-	-	-	1	-	-	-	-
A-25	1	1	-	-	-	-	-	1	-	-	-	-
A-26	1	1	-	-	-	-	-	1	-	-	-	-
A-27	1	1	-	-	-	-	-	1	-	-	-	-
A-28	1	1	-	-	-	-	-	1	-	-	-	-
A-29	1	1	-	-	-	-	-	1	-	-	-	-
A-30	1	1	-	-	-	-	-	1	-	-	-	-
A-31	1	1	-	-	-	-	-	1	-	-	-	-
A-32	1	1	-	-	-	-	-	1	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 34b  
I-71 - I-270 to S.R. 161

DESIGN AGENCY



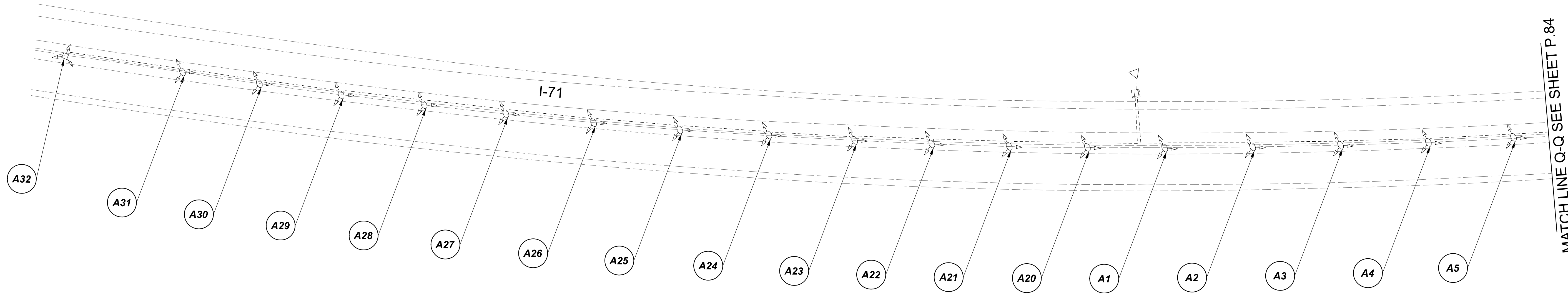
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

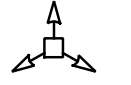
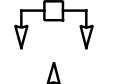
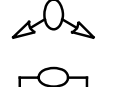
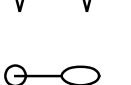


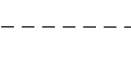

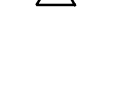

SUBSET	TOTAL
1	2

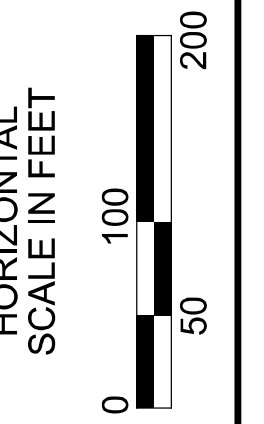
SHEET	TOTAL
P.84	197



**NOTE:**  
 SEE SHEET P.84 FOR LUMINAIRE SCHEDULE

**LEGEND**

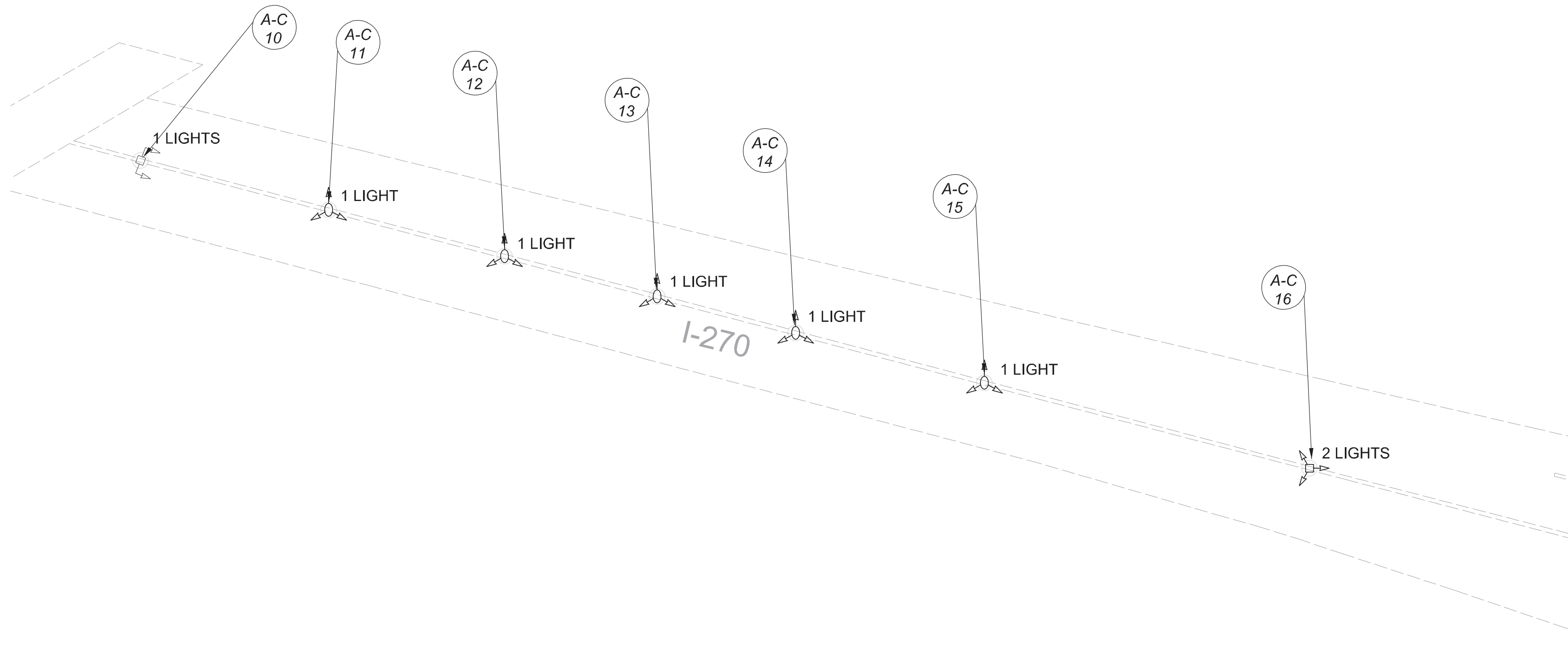
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE Q-Q SEE SHEET P.84

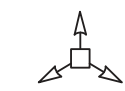
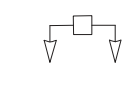
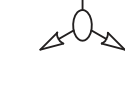
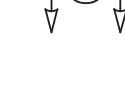





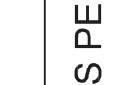
Lighting Plan - Location 34b  
 I-71 - I-270 to S.R. 161

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.85	197



MATCHLINE BA-BB  
SEE SHEET P.87


**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

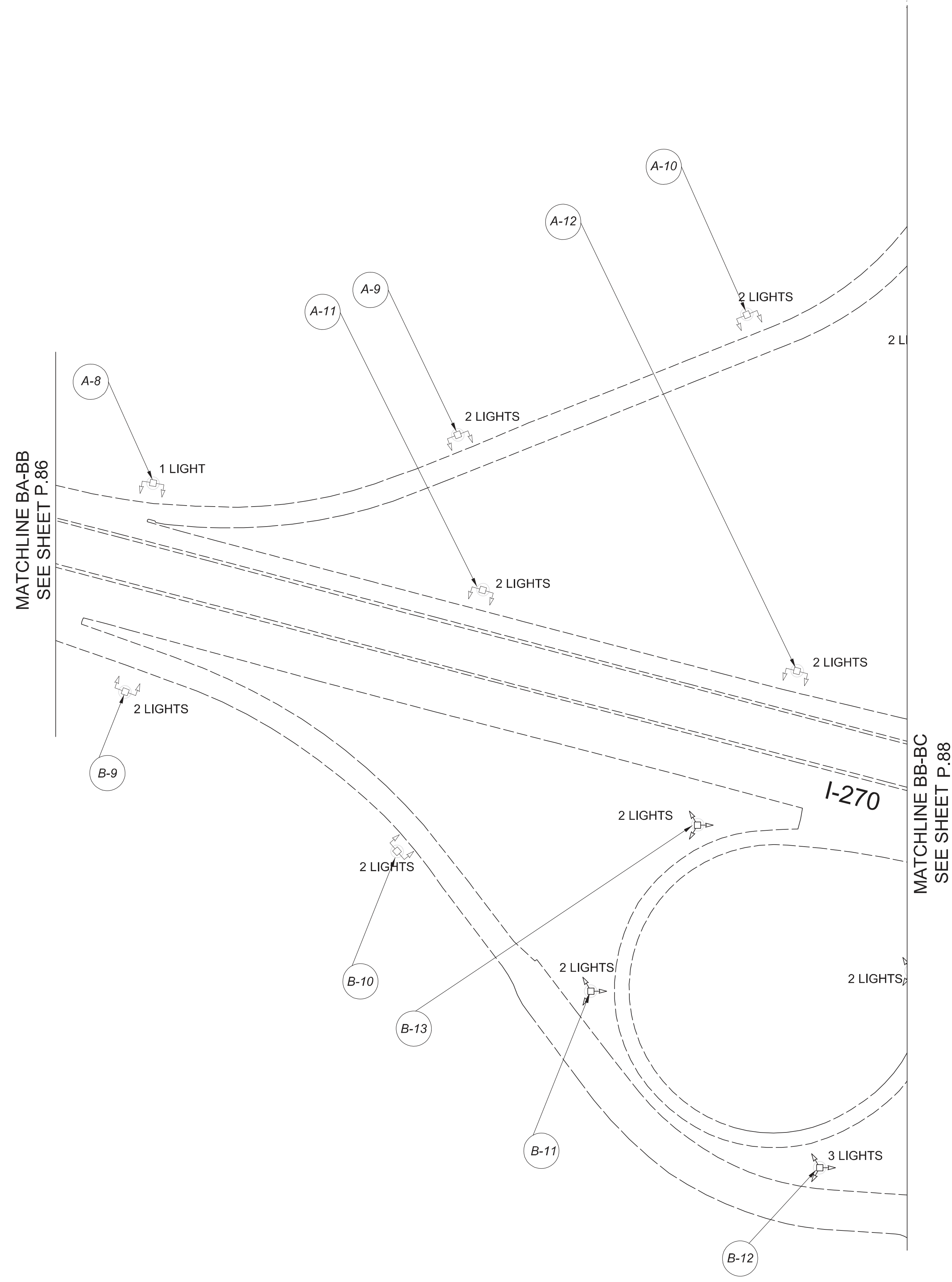
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE: HIGH MAST. SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"	EXISTING LUMINAIRE LUMINAIRE, LOW MAST TO REMAIN
A-C-10	-	-	-	-	-	-	-	-	1
A-C-11	-	-	-	-	-	-	-	-	1
A-C-12	-	-	-	-	-	-	-	-	1
A-C-13	-	-	-	-	-	-	-	-	1
A-C-14	-	-	-	-	-	-	-	-	1
A-C-15	-	-	-	-	-	-	-	-	1
A-C-16	6	2	-	2	-	-	-	4	-
A-8	4	1	-	-	1	-	-	3	-
A-9	4	2	-	-	2	-	-	2	-
A-10	4	2	-	-	2	-	-	2	-
A-11	4	2	-	-	2	-	-	2	-
A-12	4	2	-	-	2	-	-	2	-
B-9	4	2	-	-	2	-	-	2	-
B-10	4	2	-	-	2	-	-	2	-
B-11	6	4	-	2	-	-	-	4	-
B-12	6	3	3	3	-	-	-	-	-
B-13	4	2	-	2	-	-	-	2	-
B-M-1	6	4	-	4	-	-	-	2	-
B-M-2	4	4	-	4	-	-	-	-	-
B-M-3	-	-	-	-	-	-	-	-	1
B-M-4	-	-	-	-	-	-	-	-	1
B-M-5	-	-	-	-	-	-	-	-	1
C-8	6	2	-	-	2	-	-	4	-
C-9	4	1	-	-	1	-	-	3	-
C-10	4	2	-	2	-	-	-	2	-
C-11	4	2	-	2	-	-	-	2	-
C-12	6	1	-	-	1	-	-	5	-
D-8	4	1	-	-	1	-	-	3	-
D-9	4	1	-	-	1	-	-	3	-
D-10	4	2	-	-	2	-	-	2	-
D-11	6	3	3	3	-	-	-	-	-
D-12	4	2	-	-	2	-	-	2	-
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E-2	4	2	-	2	-	-	-	2	-
E-3	4	2	-	2	-	-	-	2	-
E-4	4	2	-	-	2	-	-	2	-
E-5	4	1	-	-	1	-	-	3	-
E-6	4	2	-	2	-	-	-	2	-













Lighting Plan - Locations D06-35  
I-270 and Cleveland

DESIGN AGENCY	
	
DESIGNER	
DT	
REVIEWER	
ES 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.86	197





**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



**Lighting Plan - Locations D06-35  
I-270 and Cleveland**

DESIGN AGENCY



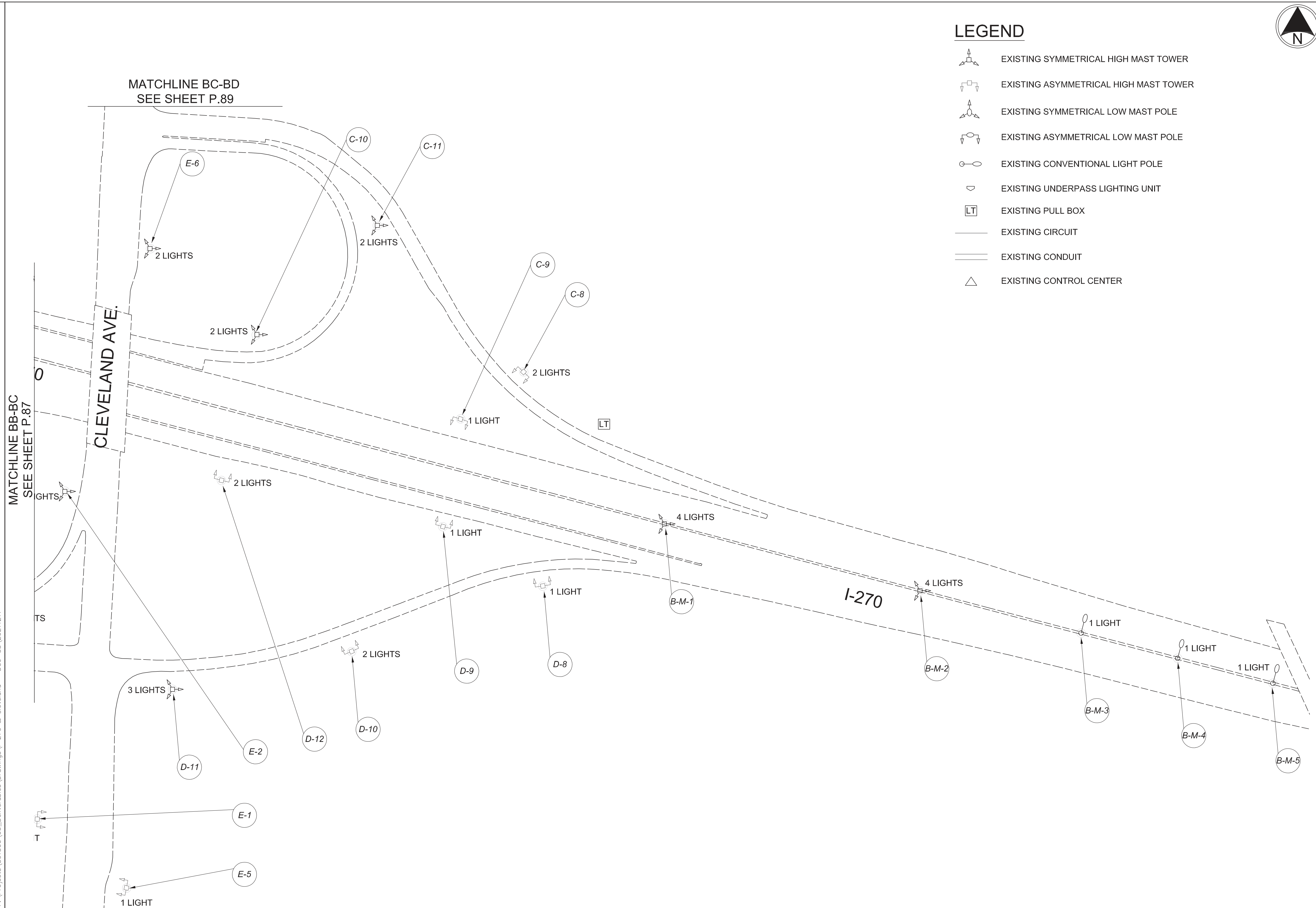
DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

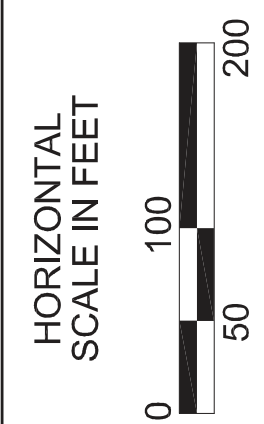
SUBSET	TOTAL
2	4

SHEET	TOTAL
P.87	197



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Locations D06-35  
I-270 and Cleveland

DESIGN AGENCY



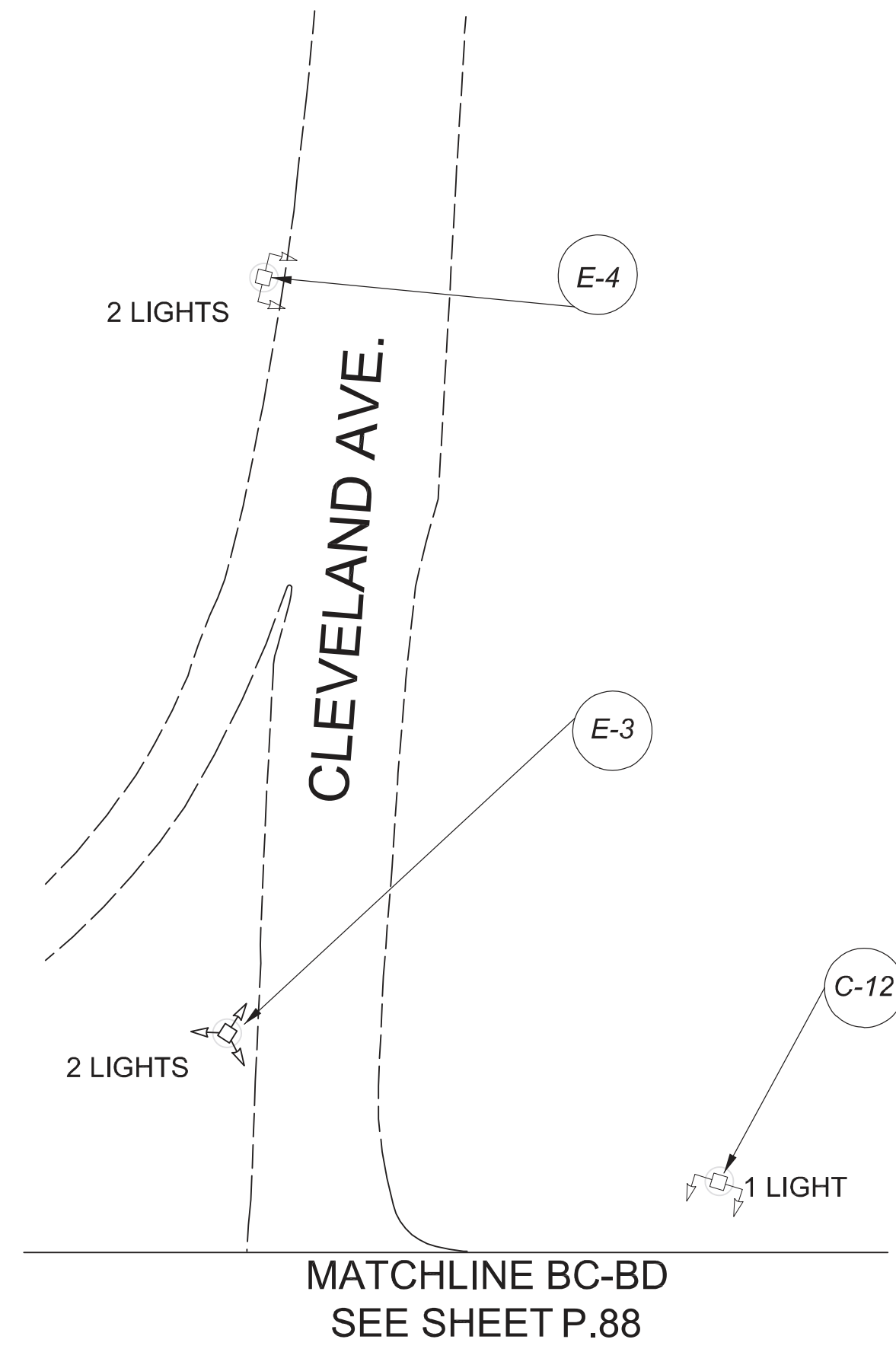
DESIGNER  
DT

REVIEWER  
ES 03/11/22











PROJECT ID  
112676

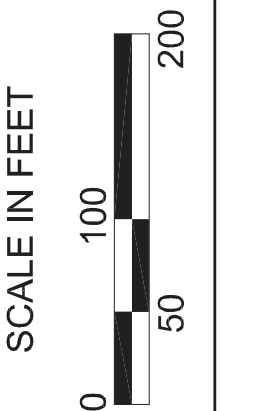
SUBSET	TOTAL
3	4

SHEET	TOTAL
P.88	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Locations D06-35  
I-270 and Cleveland

DESIGN AGENCY



DESIGNER

DT

REVIEWER

ES 03/11/22

PROJECT ID

112676

SUBSET	TOTAL
4	4

SHEET	TOTAL
P.89	197

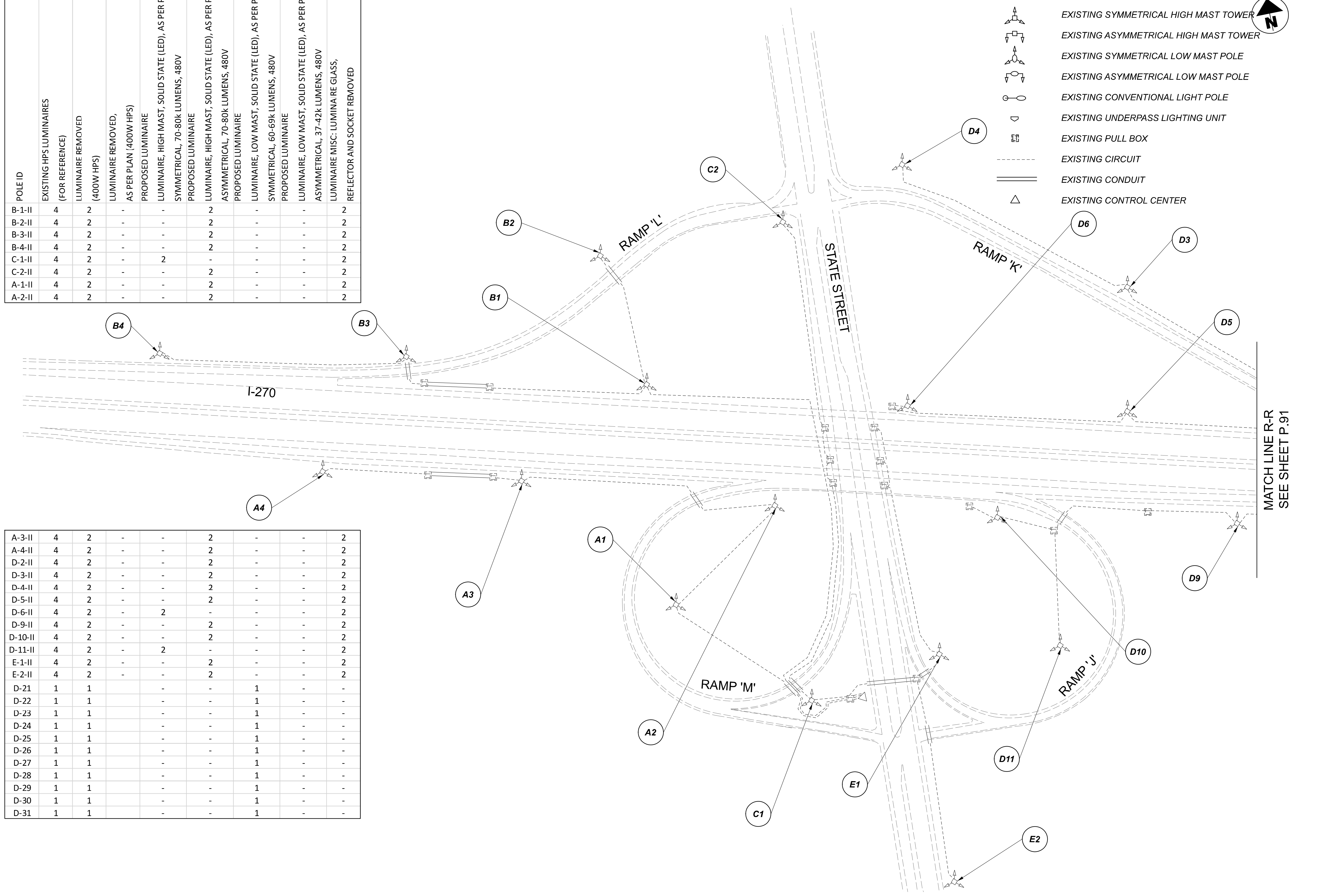
SHEET	TOTAL
P.89	197

D06-Lighting Upgrade FY2021

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A-4-II	4	2	-	-	2	-	-	2
D-2-II	4	2	-	-	2	-	-	2
D-3-II	4	2	-	-	2	-	-	2
D-4-II	4	2	-	-	2	-	-	2
D-5-II	4	2	-	-	2	-	-	2
D-6-II	4	2	-	2	-	-	-	2
D-9-II	4	2	-	-	2	-	-	2
D-10-II	4	2	-	-	2	-	-	2
D-11-II	4	2	-	2	-	-	-	2
E-1-II	4	2	-	-	2	-	-	2
E-2-II	4	2	-	-	2	-	-	2
D-21	1	1	-	-	-	1	-	-
D-22	1	1	-	-	-	1	-	-
D-23	1	1	-	-	-	1	-	-
D-24	1	1	-	-	-	1	-	-
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D-28	1	1	-	-	-	1	-	-
D-29	1	1	-	-	-	1	-	-
D-30	1	1	-	-	-	1	-	-
D-31	1	1	-	-	-	1	-	-

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-1-II	4	2	-	-	-	2	-	-	-	-	2	2
B-2-II	4	2	-	-	-	2	-	-	-	-	2	2
B-3-II	4	2	-	-	-	2	-	-	-	-	2	2
B-4-II	4	2	-	-	-	2	-	-	-	-	2	2
C-1-II	4	2	-	-	2	-	-	-	-	-	2	2
C-2-II	4	2	-	-	-	2	-	-	-	-	2	2
A-1-II	4	2	-	-	-	2	-	-	-	-	2	2
A-2-II	4	2	-	-	-	2	-	-	-	-	2	2

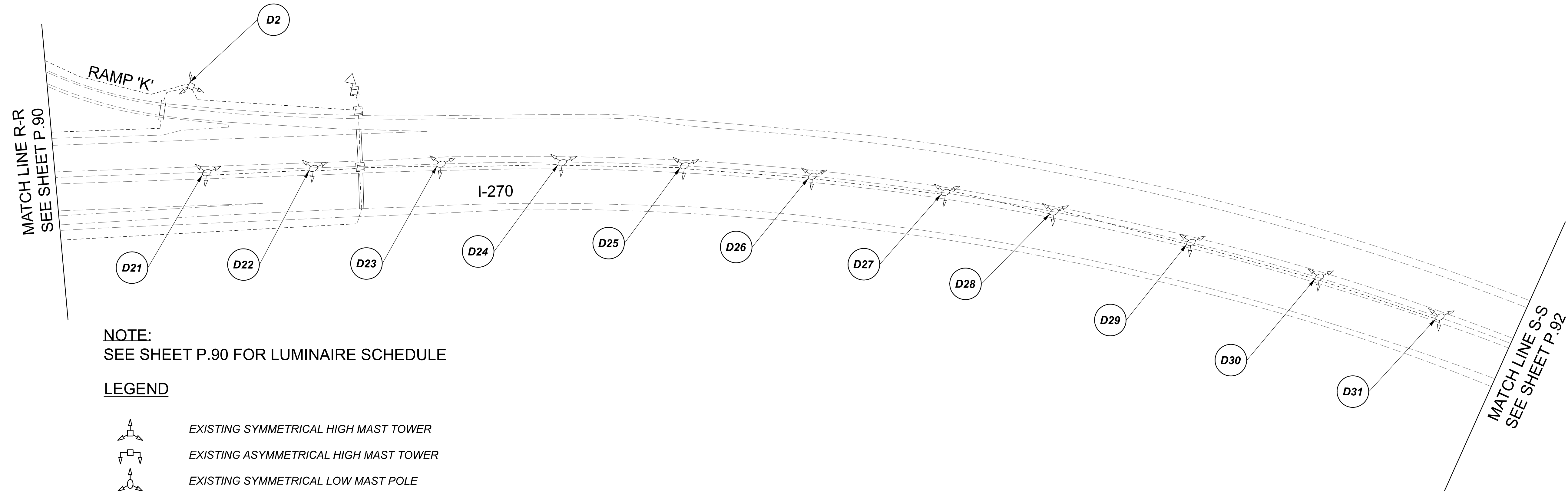


MATCH LINE R-R  
SEE SHEET P.91

Lighting Plan - Location 36  
I-270 and S.R. 3

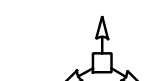
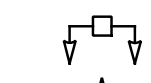
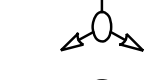
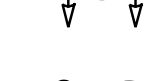

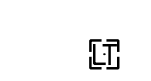
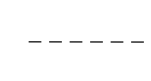
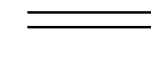
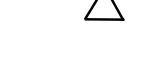

HORIZONTAL SCALE IN FEET  
0 50 100 200

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.90	197



**NOTE:**  
 SEE SHEET P.90 FOR LUMINAIRE SCHEDULE

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 36  
 I-270 and S.R. 3

DESIGN AGENCY



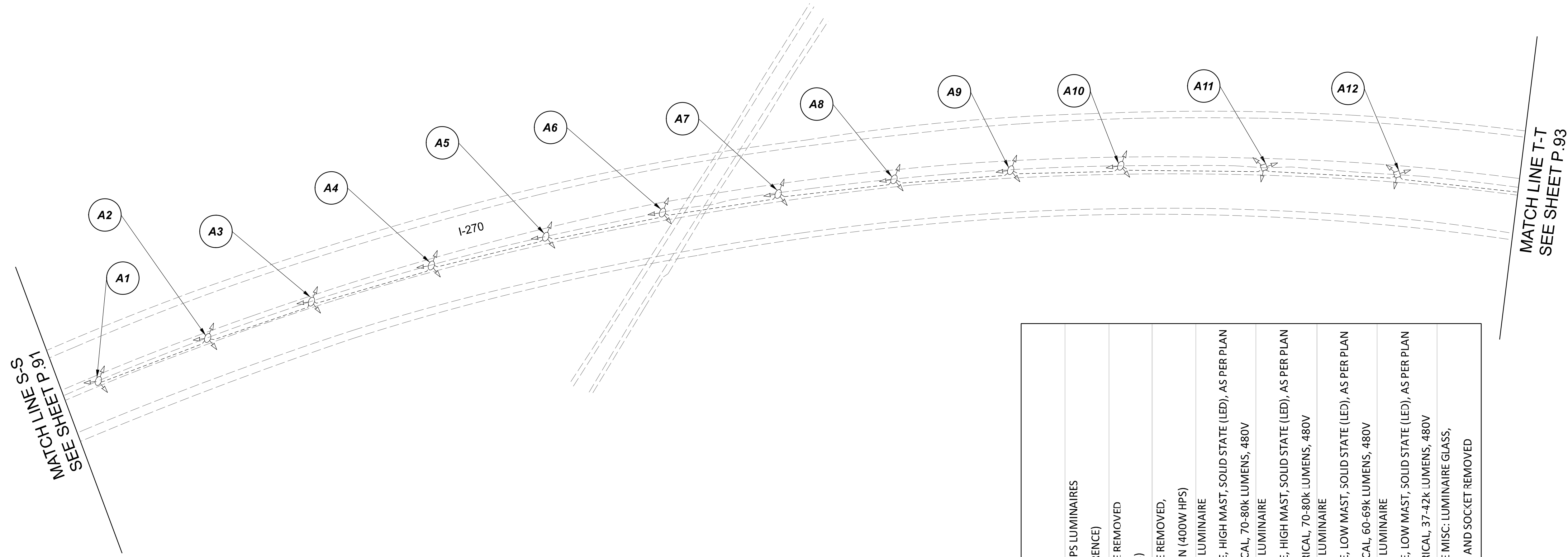
DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

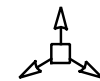
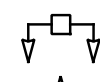
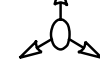
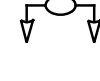
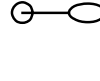


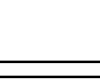


PROJECT ID  
 112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.91	197

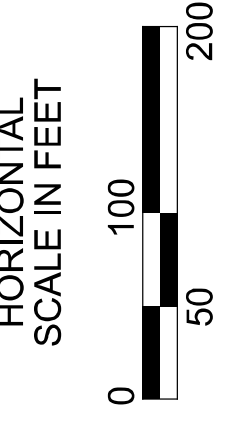
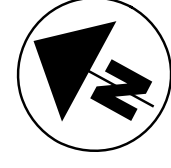


**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	1	-	-	-	-
A-2	1	1	-	-	-	-	-	1	-	-	-	-
A-3	1	1	-	-	-	-	-	1	-	-	-	-
A-4	1	1	-	-	-	-	-	1	-	-	-	-
A-5	1	1	-	-	-	-	-	1	-	-	-	-
A-6	1	1	-	-	-	-	-	1	-	-	-	-
A-7	1	1	-	-	-	-	-	1	-	-	-	-
A-8	1	1	-	-	-	-	-	1	-	-	-	-
A-9	1	1	-	-	-	-	-	1	-	-	-	-
A-10	1	1	-	-	-	-	-	1	-	-	-	-
A-11	4	2	-	2	-	-	-	-	-	-	2	-
A-12	4	2	-	2	-	-	-	-	-	-	2	-
A-13	6	3	3	3	-	-	-	-	-	-	-	-
B-1	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-5	6	3	3	3	-	-	-	-	-	-	-	-

MATCH LINE T-T  
SEE SHEET P.93



Lighting Plan - Location 36a  
I-270 - S.R. 3 to S.R. 161

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

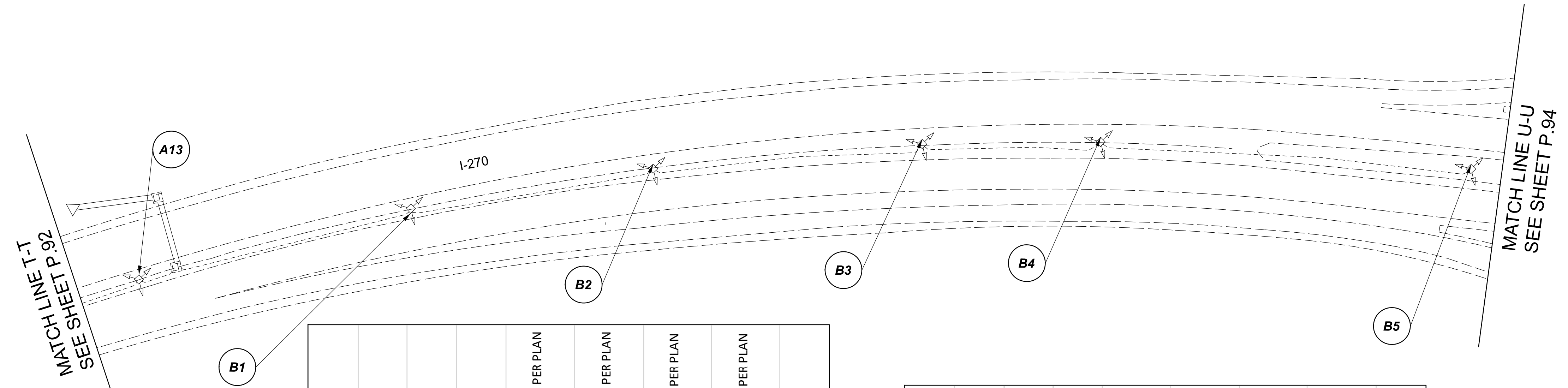
1 2

SHEET TOTAL

P.92 197

D06-Lighting Upgrade FY2021

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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C1	6	3	3	3	3	-	-	-	-	-	-	-
C2	4	2	-	2	2	-	-	-	-	-	-	2
C3	6	3	3	3	3	-	-	-	-	-	-	-
C4	6	3	3	3	3	-	-	-	-	-	-	-
C5	6	3	3	3	3	-	-	-	-	-	-	-
D1	1	1	-	-	-	-	-	1	-	-	-	-
D2	1	1	-	-	-	-	-	1	-	-	-	-
D3	1	1	-	-	-	-	-	1	-	-	-	-
D4	1	1	-	-	-	-	-	1	-	-	-	-
D5	1	1	-	-	-	-	-	1	-	-	-	-
D6	1	1	-	-	-	-	-	1	-	-	-	-
D7	1	1	-	-	-	-	-	1	-	-	-	-
D8	1	1	-	-	-	-	-	1	-	-	-	-
D9	1	1	-	-	-	-	-	1	-	-	-	-
D10	1	1	-	-	-	-	-	1	-	-	-	-

D11	1	1	-	-	-	-	-	1	-	-	-	-
D12	1	1	-	-	-	-	-	1	-	-	-	-
E1	6	3	3	3	-	-	-	-	-	-	-	-
E2	6	3	3	3	-	-	-	-	-	-	-	-
E3	4	2	-	2	-	-	-	-	-	-	2	-
E4	6	3	3	3	-	-	-	-	-	-	-	-
E5	6	3	3	3	-	-	-	-	-	-	-	-
E6	4	2	-	2	-	-	-	-	-	-	2	-
E7	6	3	3	3	-	-	-	-	-	-	-	-
F1	6	3	3	3	-	-	-	-	-	-	-	-
F2	6	3	3	3	-	-	-	-	-	-	-	-
F3	6	3	3	3	-	-	-	-	-	-	-	-
F4	6	3	3	3	-	-	-	-	-	-	-	-
F5	6	4	-	4	-	-	-	-	-	-	2	-
G1	6	4	-	4	-	-	-	-	-	-	2	-
G2	6	3	3	3	-	-	-	-	-	-	-	-
G3	6	3	3	3	-	-	-	-	-	-	-	-
G4	6	3	3	3	-	-	-	-	-	-	-	-
H1	6	3	3	3	-	-	-	-	-	-	-	-
H2	4	2	-	2	-	-	-	-	-	-	2	-
H3	6	3	3	3	-	-	-	-	-	-	-	-
H4	6	3	3	3	-	-	-	-	-	-	-	-
HH1	4	2	-	2	-	-	-	-	-	-	2	-
HH2	4	2	-	2	-	-	-	-	-	-	2	-
HH3	4	2	-	2	-	-	-	-	-	-	2	-
HH4	6	3	3	3	-	-	-	-	-	-	-	-
HH5	6	3	3	3	-	-	-	-	-	-	-	-

HORIZONTAL SCALE IN FEET  
 0 50 100 200

Lighting Plan - Location 36a  
 I-270 - S.R. 3 to S.R. 161

DESIGN AGENCY  
 SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

DESIGNER  
 VN

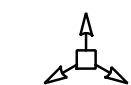
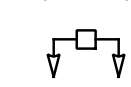
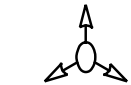
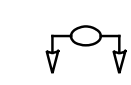
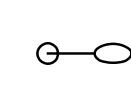


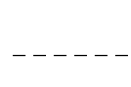
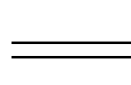

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

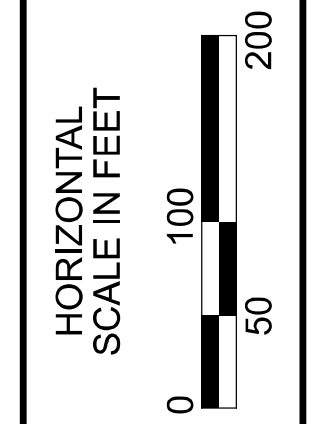
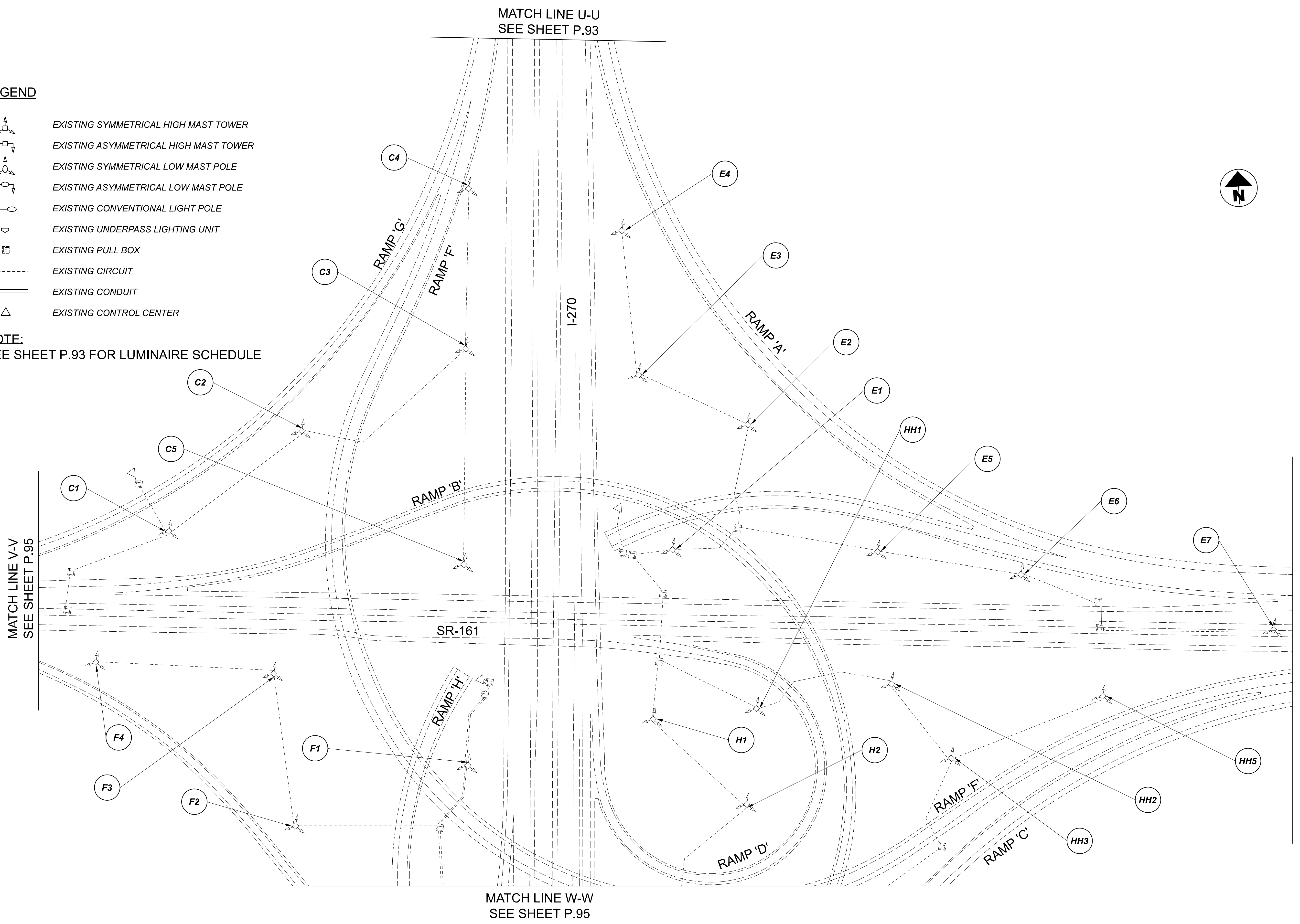
SUBSET	TOTAL
2	2

SHEET	TOTAL
P.93	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.93 FOR LUMINAIRE SCHEDULE



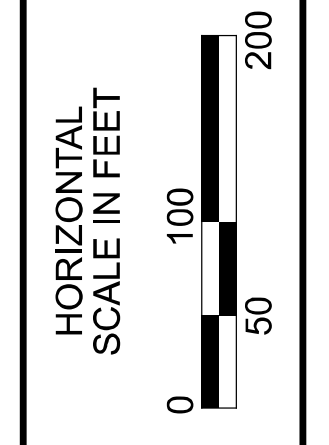
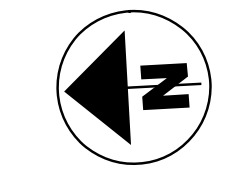
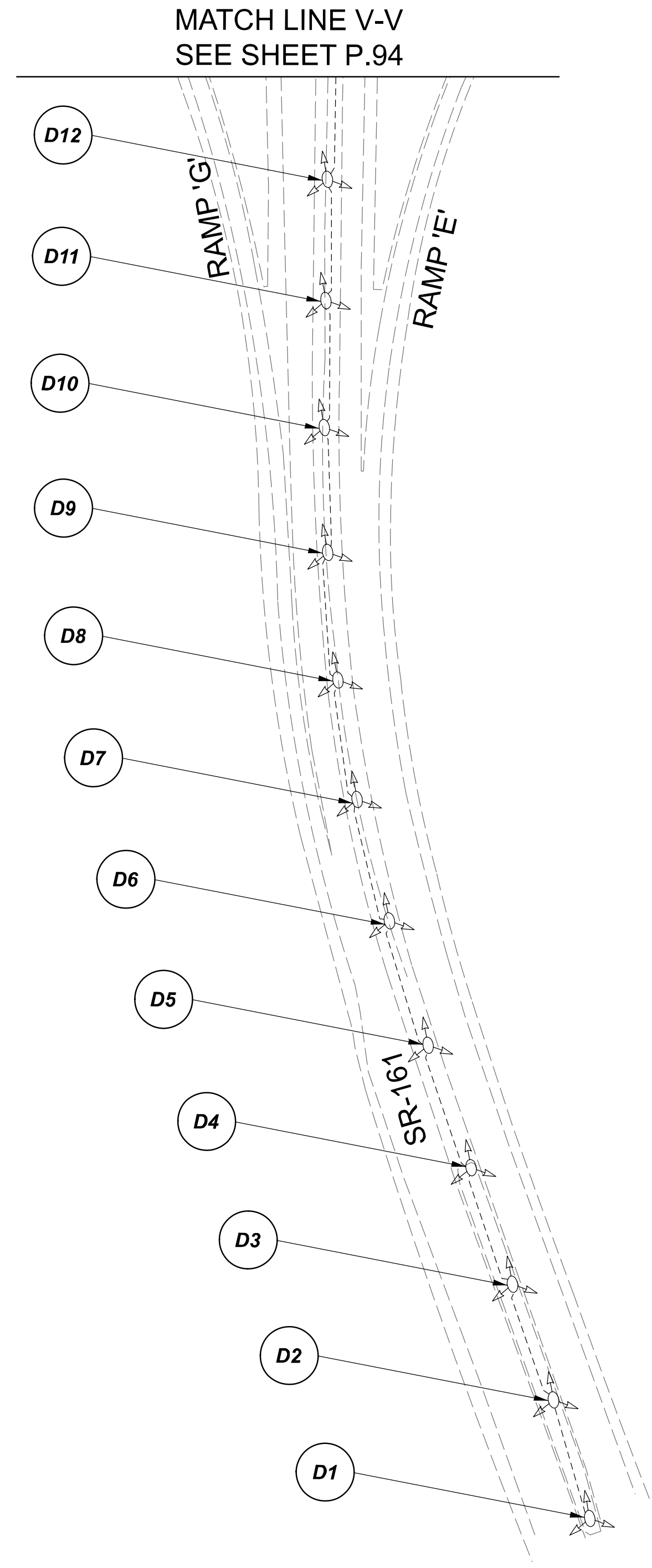
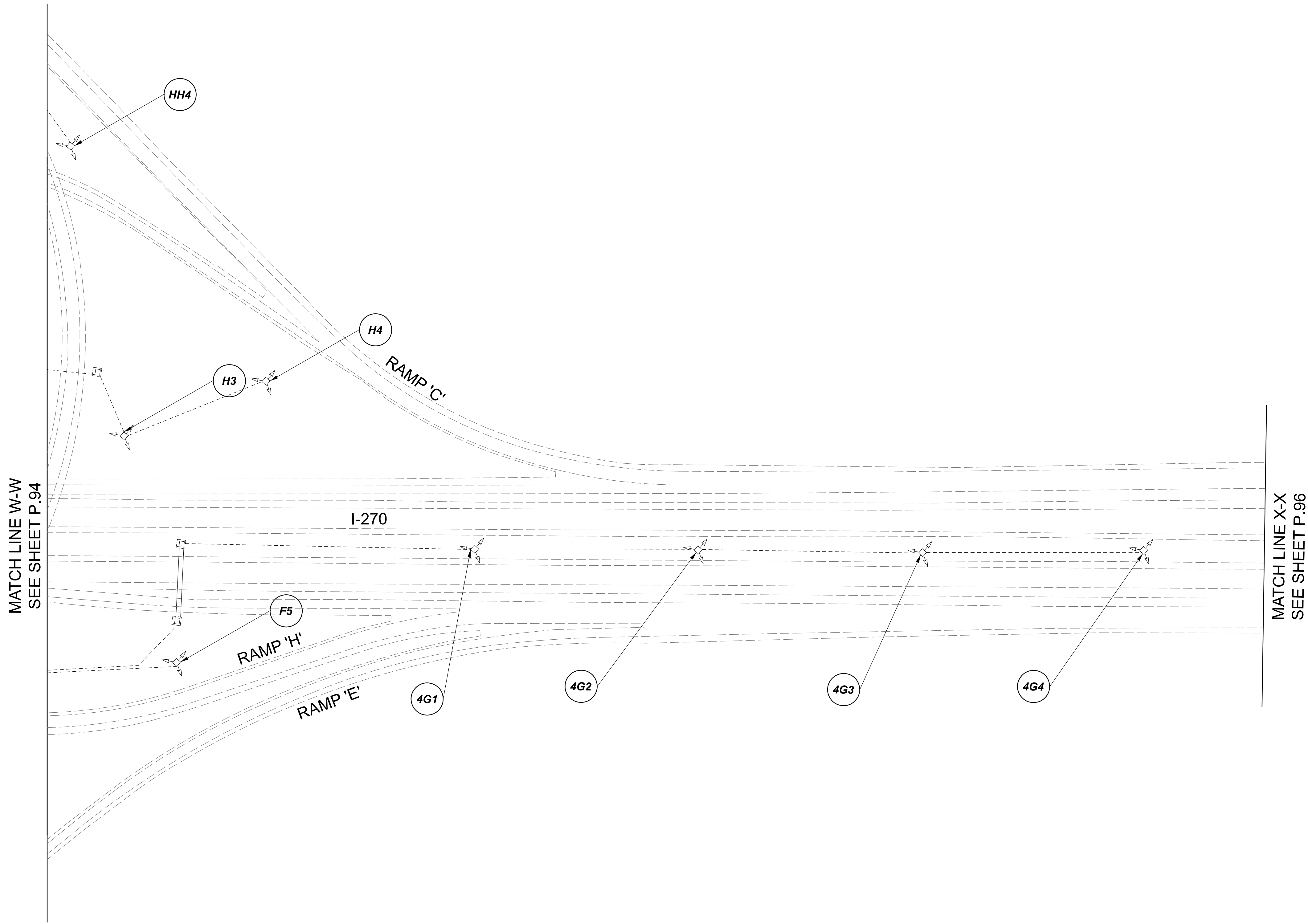
Lighting Plan - Location 37  
 I-270 and S.R. 161

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.94	197



D06-Lighting Upgrade FY2021

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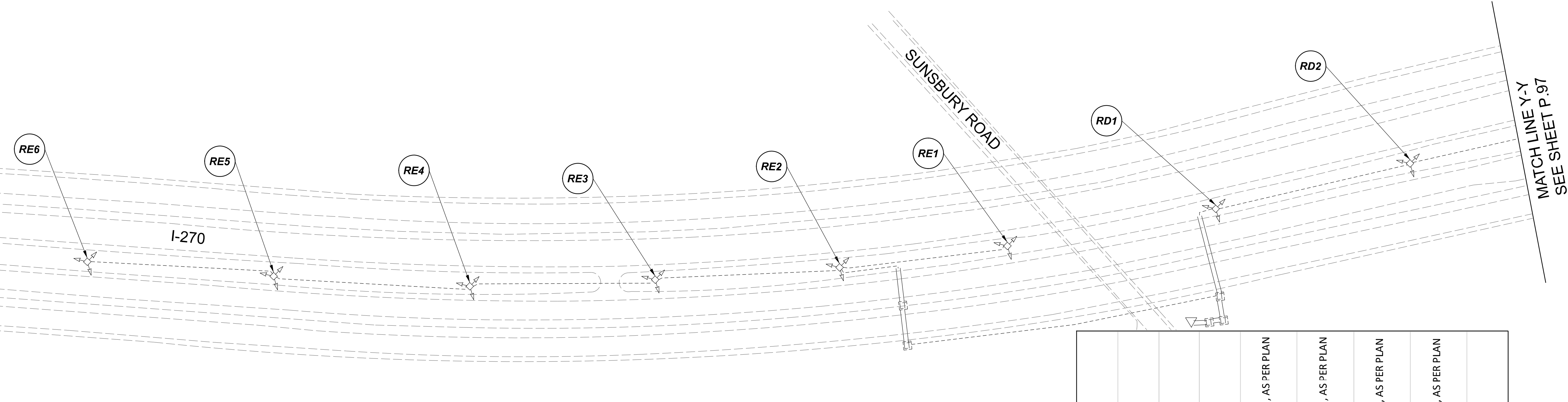
Lighting Plan - Location 37  
 I-270 and S.R. 161

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.95	197

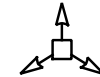
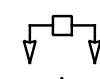
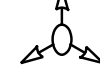
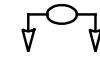
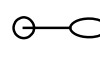


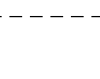
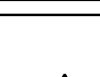

D06-Lighting Upgrade FY2021

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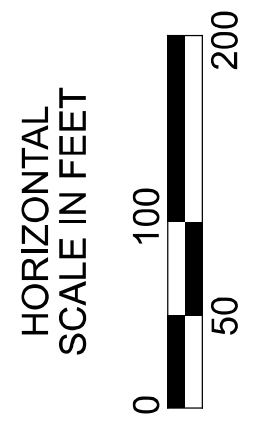
MATCH LINE X-X  
SEE SHEET P.95



LEGEND

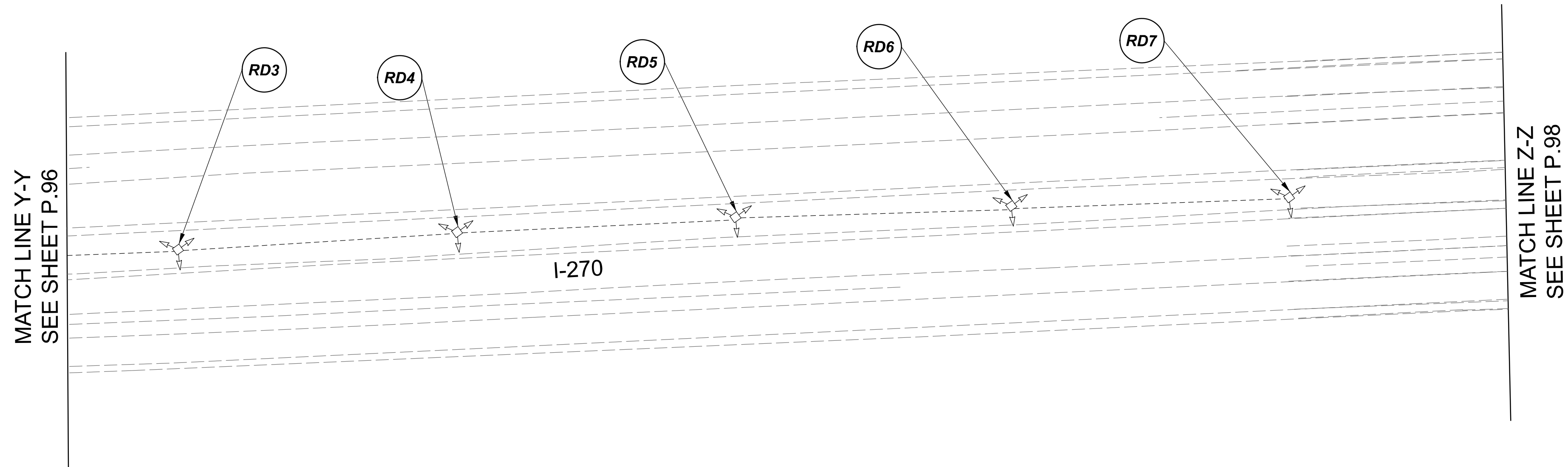
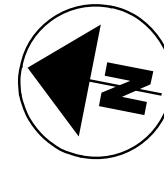
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
RF-1	5	3	3	3	3							
RE-2	6	3	3	3	3							
RE-3	6	3	3	3	3							
RE-4	6	3	3	3	3							
RE-5	6	3	3	3	3							
RE-6	6	3	3	3	3							
RD-1	6	3	3	3	3							
RD-2	6	3	3	3	3							
RD-3	6	3	3	3	3							
RD-4	6	3	3	3	3							
RD-5	6	3	3	3	3							
RD-6	6	3	3	3	3							
RD-7	6	3	3	3	3							




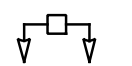

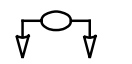
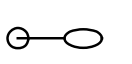


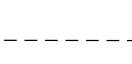
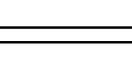

Lighting Plan - Location 37a  
I-270 - S.R. 161 to Morse Road

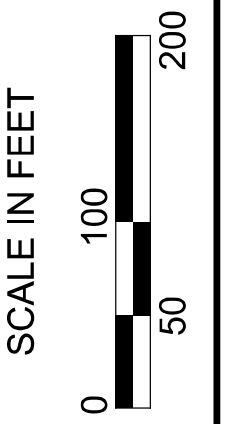
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.96	197



**NOTE:**  
 SEE SHEET P.96 FOR LUMINAIRE SCHEDULE

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 37a  
 I-270 - S.R. 161 to Morse Road

DESIGN AGENCY



DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

SUBSET	TOTAL
2	2

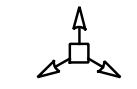
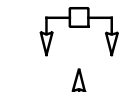
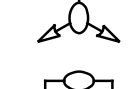
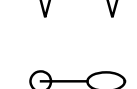


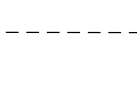
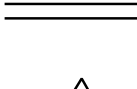
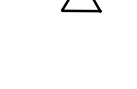

SHEET	TOTAL
P.97	197

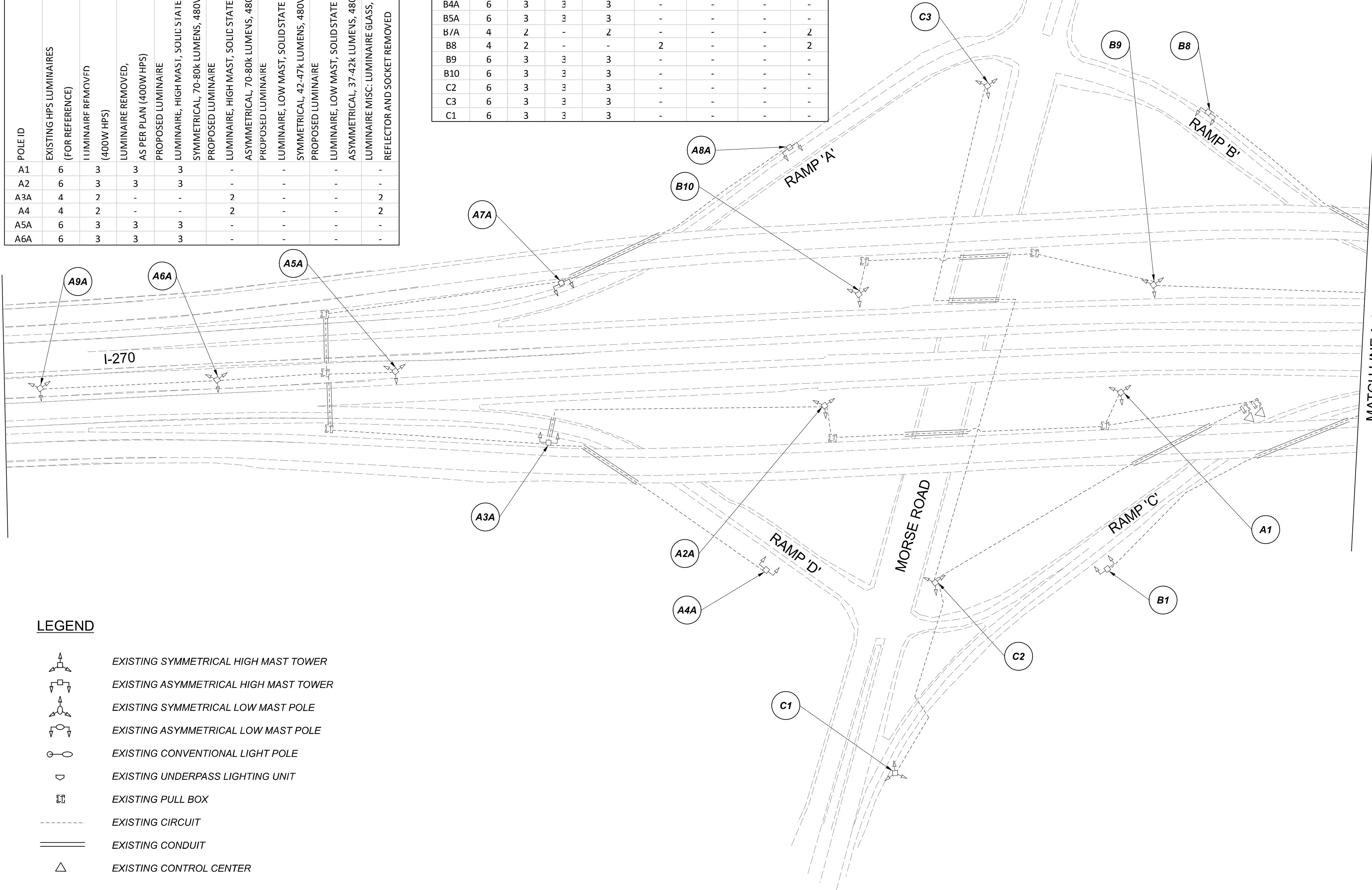
MATCH LINE Z-Z  
SEE SHEET P.97

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	6	3	3	3	-	-	-	-	-	-	-	-
A2	6	3	3	3	-	-	-	-	-	-	-	-
A3A	4	2	-	-	2	-	-	-	-	-	2	-
A4	4	2	-	-	2	-	-	-	-	-	2	-
A5A	6	3	3	3	-	-	-	-	-	-	-	-
A6A	6	3	3	3	-	-	-	-	-	-	-	-

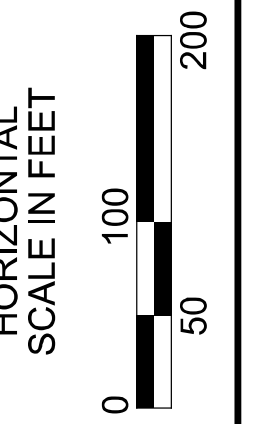
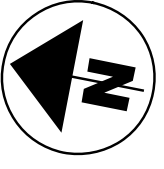
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A8	4	2	-	-	2	-	-	2
A9A	6	3	3	3	-	-	-	-
B1	4	2	-	-	2	-	-	2
B2A	4	2	-	2	-	-	-	2
B3A	6	3	3	3	-	-	-	-
B4A	6	3	3	3	-	-	-	-
B5A	6	3	3	3	-	-	-	-
B/A	4	2	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	2
B9	6	3	3	3	-	-	-	-
B10	6	3	3	3	-	-	-	-
C2	6	3	3	3	-	-	-	-
C3	6	3	3	3	-	-	-	-
C1	6	3	3	3	-	-	-	-

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE A-A  
SEE SHEET P.99



Lighting Plan - Location 38  
I-270 and Morse Road

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

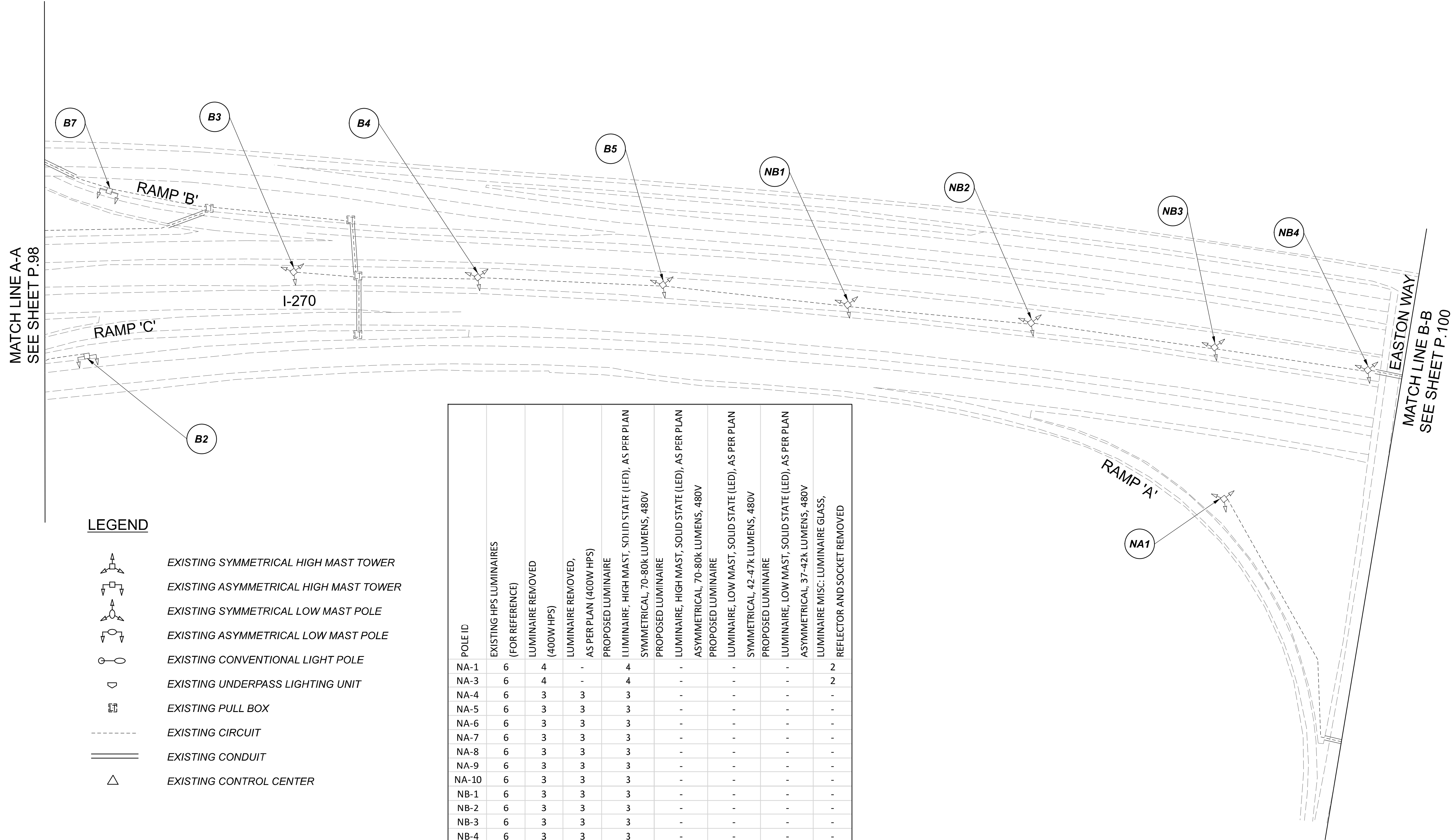
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SHEET TOTAL

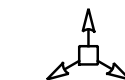
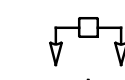
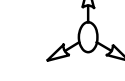

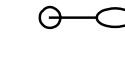

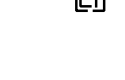
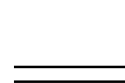


P.98 197

D06-Lighting Upgrade FY2021

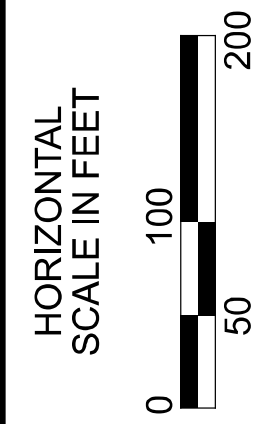
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
NA-1	6	4	-	4	-	-	-	-	-	-	-	2
NA-3	6	4	-	4	-	-	-	-	-	-	-	2
NA-4	6	3	3	3	-	-	-	-	-	-	-	-
NA-5	6	3	3	3	-	-	-	-	-	-	-	-
NA-6	6	3	3	3	-	-	-	-	-	-	-	-
NA-7	6	3	3	3	-	-	-	-	-	-	-	-
NA-8	6	3	3	3	-	-	-	-	-	-	-	-
NA-9	6	3	3	3	-	-	-	-	-	-	-	-
NA-10	6	3	3	3	-	-	-	-	-	-	-	-
NB-1	6	3	3	3	-	-	-	-	-	-	-	-
NB-2	6	3	3	3	-	-	-	-	-	-	-	-
NB-3	6	3	3	3	-	-	-	-	-	-	-	-
NB-4	6	3	3	3	-	-	-	-	-	-	-	-
NB-5	6	3	3	3	-	-	-	-	-	-	-	-

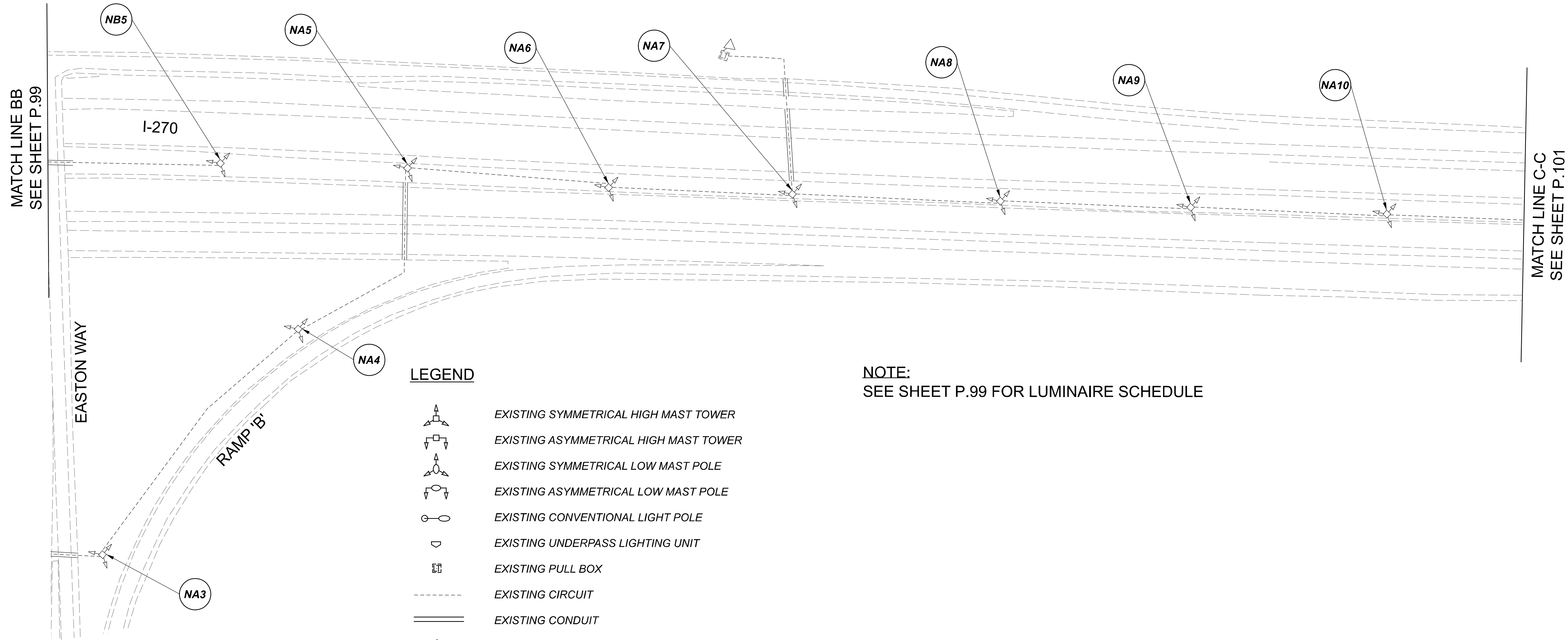


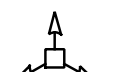
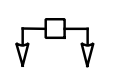
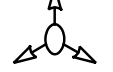
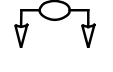
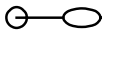


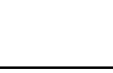


Lighting Plan - Location 39  
I-270 and Easton Way

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.99	197

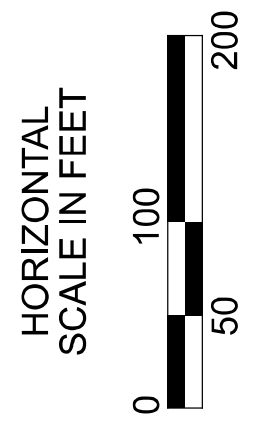
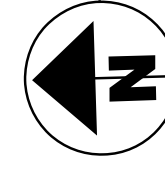
D06-Lighting Upgrade FY2021

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-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.99 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 39  
I-270 and Easton Way

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

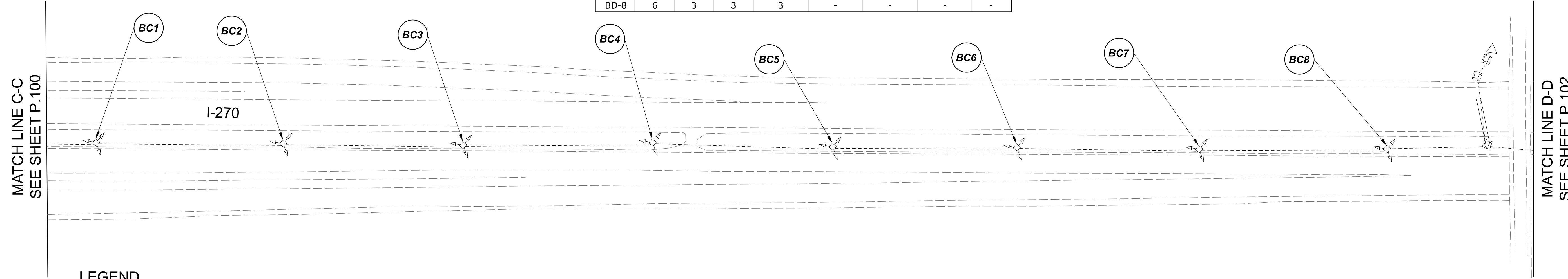
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SHEET TOTAL


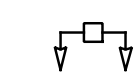

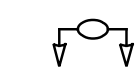
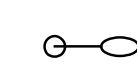


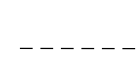
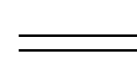

P.100 197

D06-Lighting Upgrade FY2021

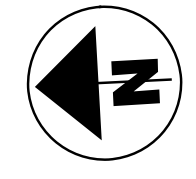
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
BC-1	6	3	3	3								
BC-2	6	3	3	3								
BC-3	6	3	3	3								
BC-4	6	3	3	3								
BC-5	6	3	3	3								
BC-6	6	3	3	3								
BC-7	6	3	3	3								
BC-8	6	3	3	3								
BD-1	6	3	3	3								
BD-2	6	3	3	3								
BD-3	6	3	3	3								
BD-4	6	3	3	3								
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BD-6	6	3	3	3								
BD-7	6	3	3	3								
BD-8	6	3	3	3								

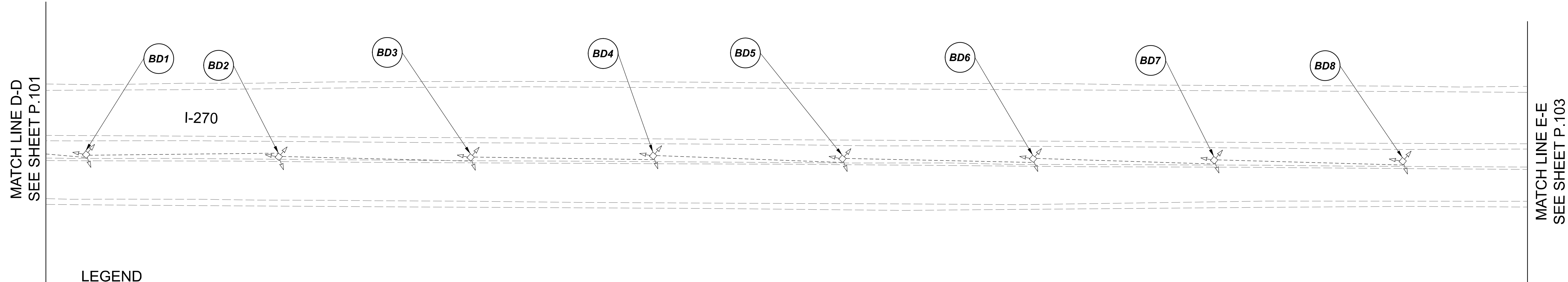


Lighting Plan - Location 39a  
 I-270 - Easton Way to I-670

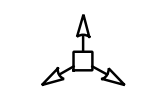
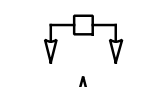
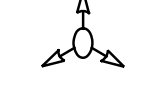
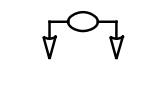
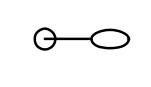


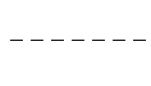
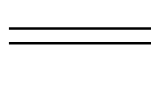

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.101	197

D06-Lighting Upgrade FY2021

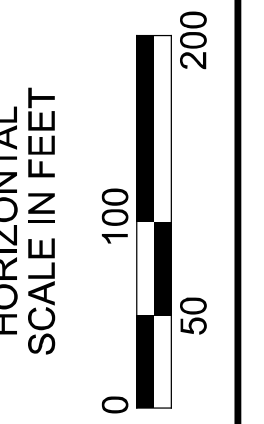
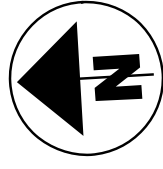
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.101 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 39a  
 I-270 - Easton Way to I-670

DESIGN AGENCY



DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

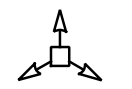
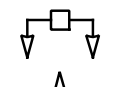
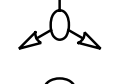
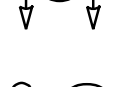


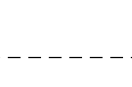
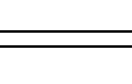


SUBSET	TOTAL
2	2

SHEET	TOTAL
P.102	197



MATCH LINE E-E  
SEE SHEET P.102

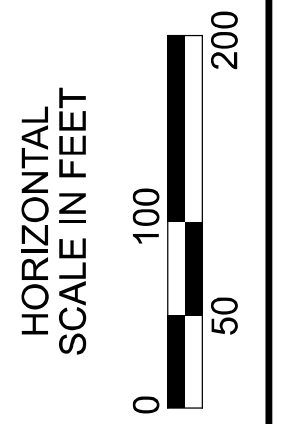
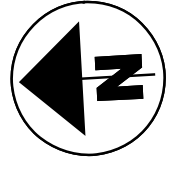
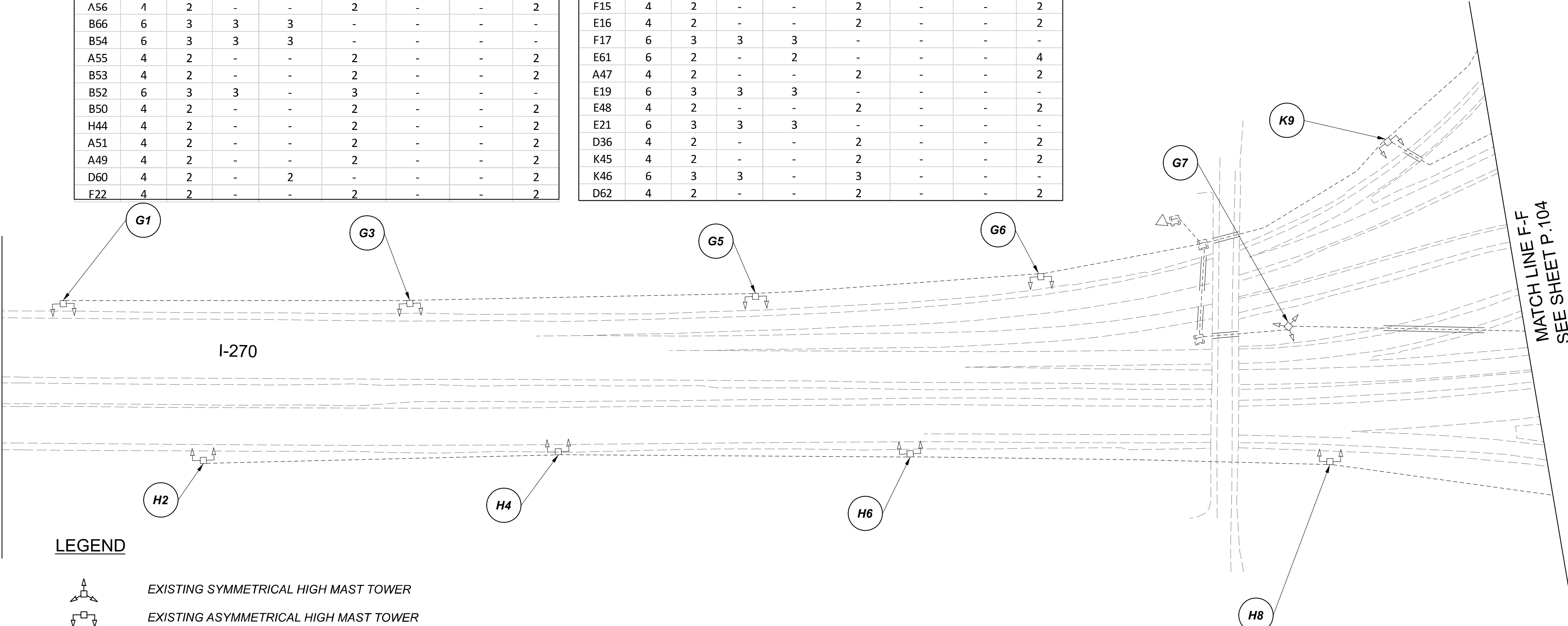
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B68	4	2	-	-	-	-	2	-	-	-	-	-	2
A57	4	2	-	-	-	-	2	-	-	-	-	-	2
B67	4	2	-	-	-	-	2	-	-	-	-	-	2
A56	4	2	-	-	-	-	2	-	-	-	-	-	2
B66	6	3	3	-	-	-	-	-	-	-	-	-	-
B54	6	3	3	-	-	-	-	-	-	-	-	-	-
A55	4	2	-	-	-	-	2	-	-	-	-	-	2
B53	4	2	-	-	-	-	2	-	-	-	-	-	2
B52	6	3	3	-	-	-	3	-	-	-	-	-	-
B50	4	2	-	-	-	-	2	-	-	-	-	-	2
H44	4	2	-	-	-	-	2	-	-	-	-	-	2
A51	4	2	-	-	-	-	2	-	-	-	-	-	2
A49	4	2	-	-	-	-	2	-	-	-	-	-	2
D60	4	2	-	-	-	-	2	-	-	-	-	-	2
F22	4	2	-	-	-	-	2	-	-	-	-	-	2

E23	4	2	-	-	-	-	2	-	-	-	-	-	2
D24	4	2	-	-	-	-	2	-	-	-	-	-	2
F25	4	2	-	-	-	-	2	-	-	-	-	-	2
E26	4	2	-	-	-	-	2	-	-	-	-	-	2
F27	4	2	-	-	-	-	2	-	-	-	-	-	2
E28	4	2	-	-	-	-	2	-	-	-	-	-	2
F29	4	2	-	-	-	-	2	-	-	-	-	-	2
E30	4	2	-	-	-	-	2	-	-	-	-	-	2
D31	4	2	-	-	-	-	2	-	-	-	-	-	2
E32	4	2	-	-	-	-	2	-	-	-	-	-	2
D33	4	2	-	-	-	-	2	-	-	-	-	-	2
K34	4	2	-	-	-	-	2	-	-	-	-	-	2
I40	4	2	-	-	-	-	2	-	-	-	-	-	2
I41	4	2	-	-	-	-	2	-	-	-	-	-	2
G10	4	2	-	-	-	-	2	-	-	-	-	-	2
G12	4	2	-	-	-	-	2	-	-	-	-	-	2
C13	4	2	-	-	-	-	2	-	-	-	-	-	2
E30 / H11	4	2	-	-	-	-	2	-	-	-	-	-	2
C58	6	3	3	-	-	-	3	-	-	-	-	-	-
I43	6	3	3	-	-	-	3	-	-	-	-	-	-
I42	4	2	-	-	-	-	2	-	-	-	-	-	2
F15	4	2	-	-	-	-	2	-	-	-	-	-	2
E16	4	2	-	-	-	-	2	-	-	-	-	-	2
F17	6	3	3	3	-	-	-	-	-	-	-	-	-
E61	6	2	-	-	-	-	2	-	-	-	-	-	4
A47	4	2	-	-	-	-	2	-	-	-	-	-	2
E19	6	3	3	3	-	-	-	-	-	-	-	-	-
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E21	6	3	3	3	-	-	-	-	-	-	-	-	-
D36	4	2	-	-	-	-	2	-	-	-	-	-	2
K45	4	2	-	-	-	-	2	-	-	-	-	-	2
K46	6	3	3	-	-	-	3	-	-	-	-	-	-
D62	4	2	-	-	-	-	2	-	-	-	-	-	2

F18	6	3	3	-	-	-	3	-	-	-	-	-	-
F20	6	3	3	-	-	-	3	-	-	-	-	-	-
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G3	4	2	-	-	-	-	2	-	-	-	-	-	2
G5	4	2	-	-	-	-	2	-	-	-	-	-	2
G6	4	2	-	-	-	-	2	-	-	-	-	-	2
G7	4	2	-	-	-	-	2	-	-	-	-	-	2
H2	4	2	-	-	-	-	2	-	-	-	-	-	2
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H6	4	2	-	-	-	-	2	-	-	-	-	-	2
H8	4	2	-	-	-	-	2	-	-	-	-	-	2
K9	4	2	-	-	-	-	2	-	-	-	-	-	2
I14	4	2	-	-	-	-	2	-	-	-	-	-	2
XX1	4	2	-	-	-	-	2	-	-	-	-	-	2

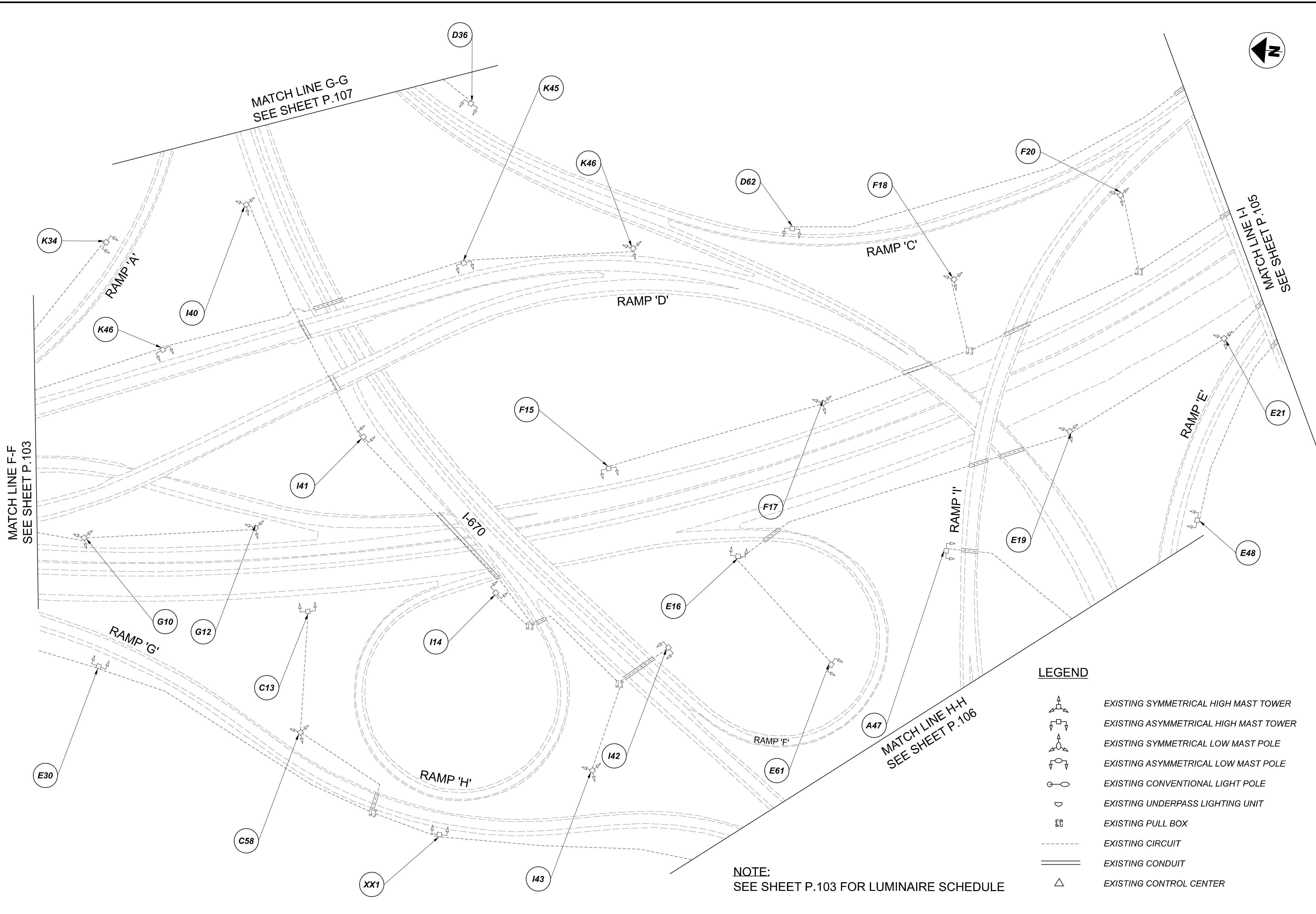


**Lighting Plan - Location 40**  
I-270 and I-670

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	5
SHEET	TOTAL
P.103	197

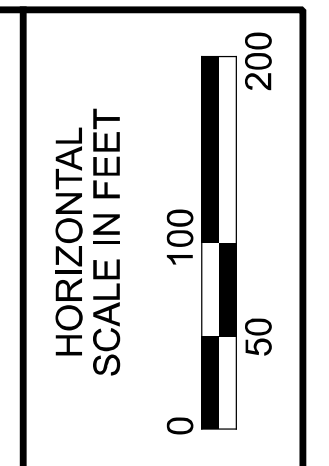
D06-Lighting Upgrade FY2021

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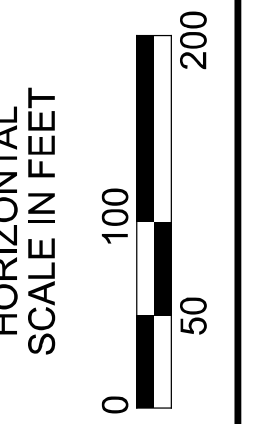
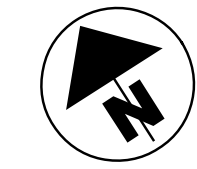
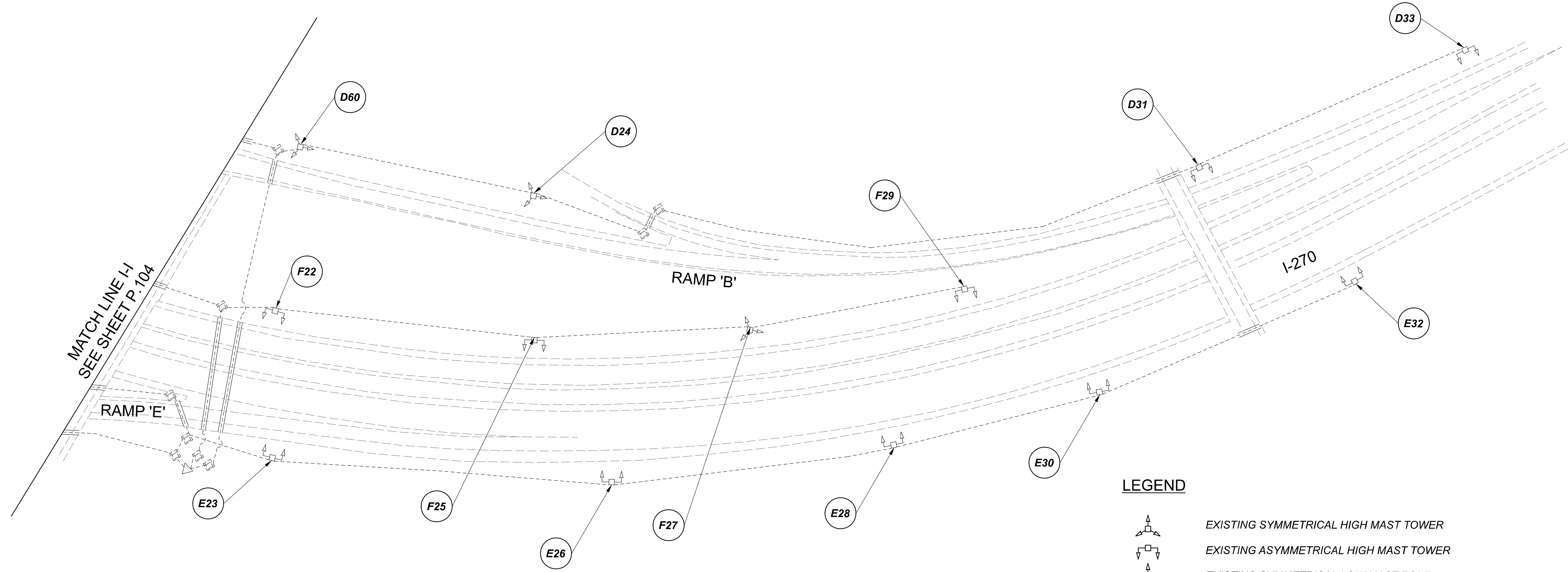
**LEGEND**

	EXISTING SYMMETRICAL HIGH MAST TOWER
	EXISTING ASYMMETRICAL HIGH MAST TOWER
	EXISTING SYMMETRICAL LOW MAST POLE
	EXISTING ASYMMETRICAL LOW MAST POLE
	EXISTING CONVENTIONAL LIGHT POLE
	EXISTING UNDERPASS LIGHTING UNIT
	EXISTING PULL BOX
	EXISTING CIRCUIT
	EXISTING CONDUIT
	EXISTING CONTROL CENTER

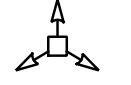
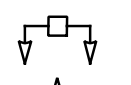
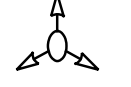
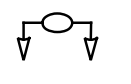
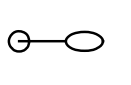


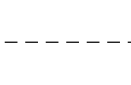
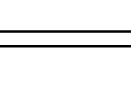



Lighting Plan - Location 40  
I-270 and I-670

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	5
SHEET	
P.104	
TOTAL	
	197



**LEGEND**











-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.103 FOR LUMINAIRE SCHEDULE

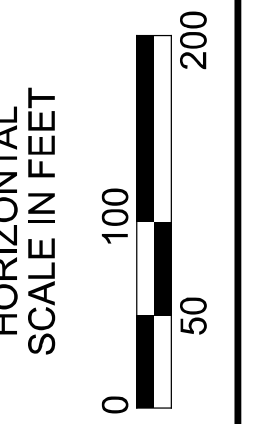
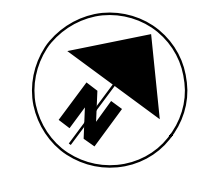
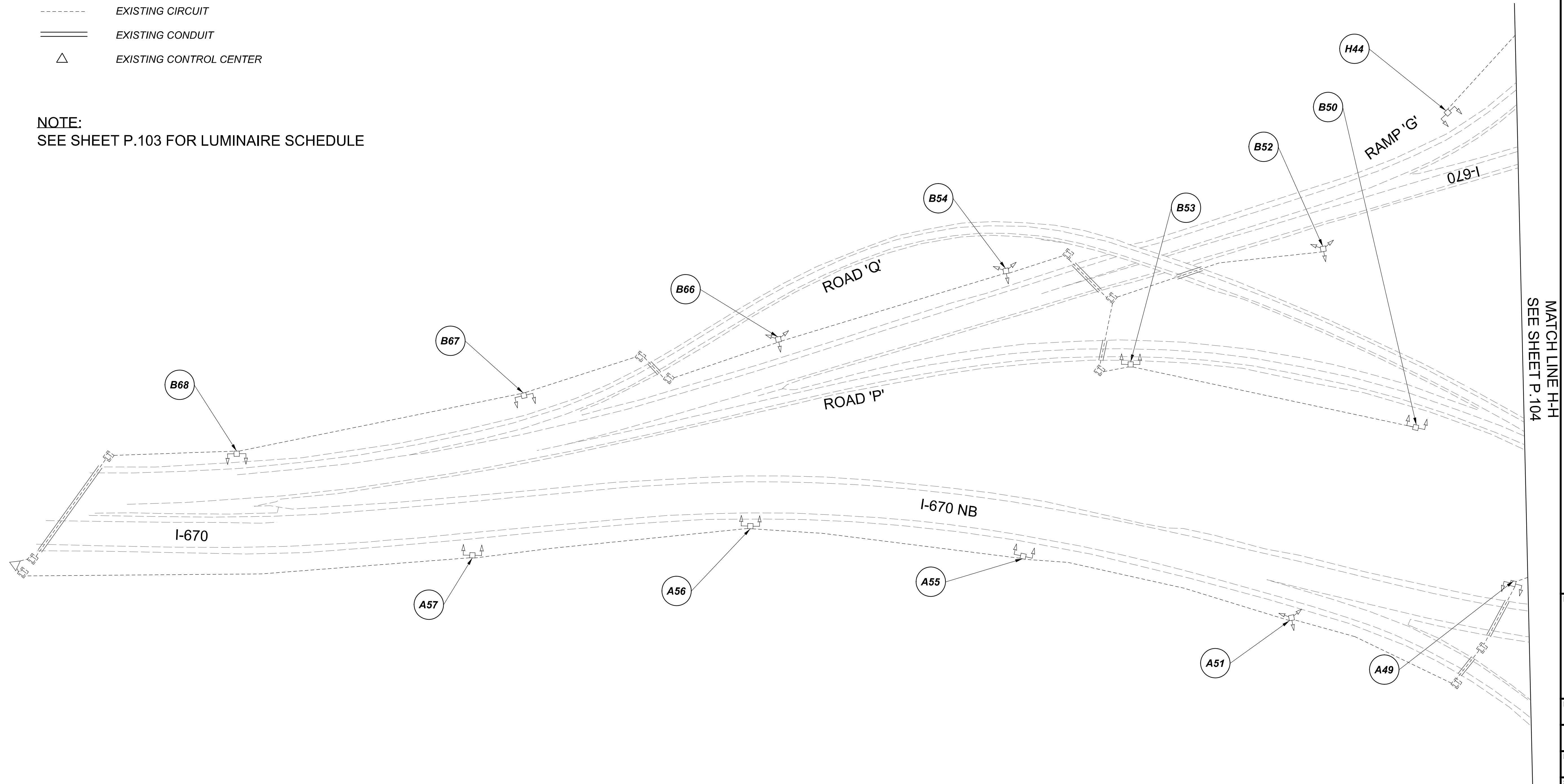
**Lighting Plan - Location 40**  
**I-270 and I-670**

DESIGN AGENCY	
<b>SINGH</b> <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
3	5
SHEET	TOTAL
P.105	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.103 FOR LUMINAIRE SCHEDULE



**Lighting Plan - Location 40**  
I-270 and I-670

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

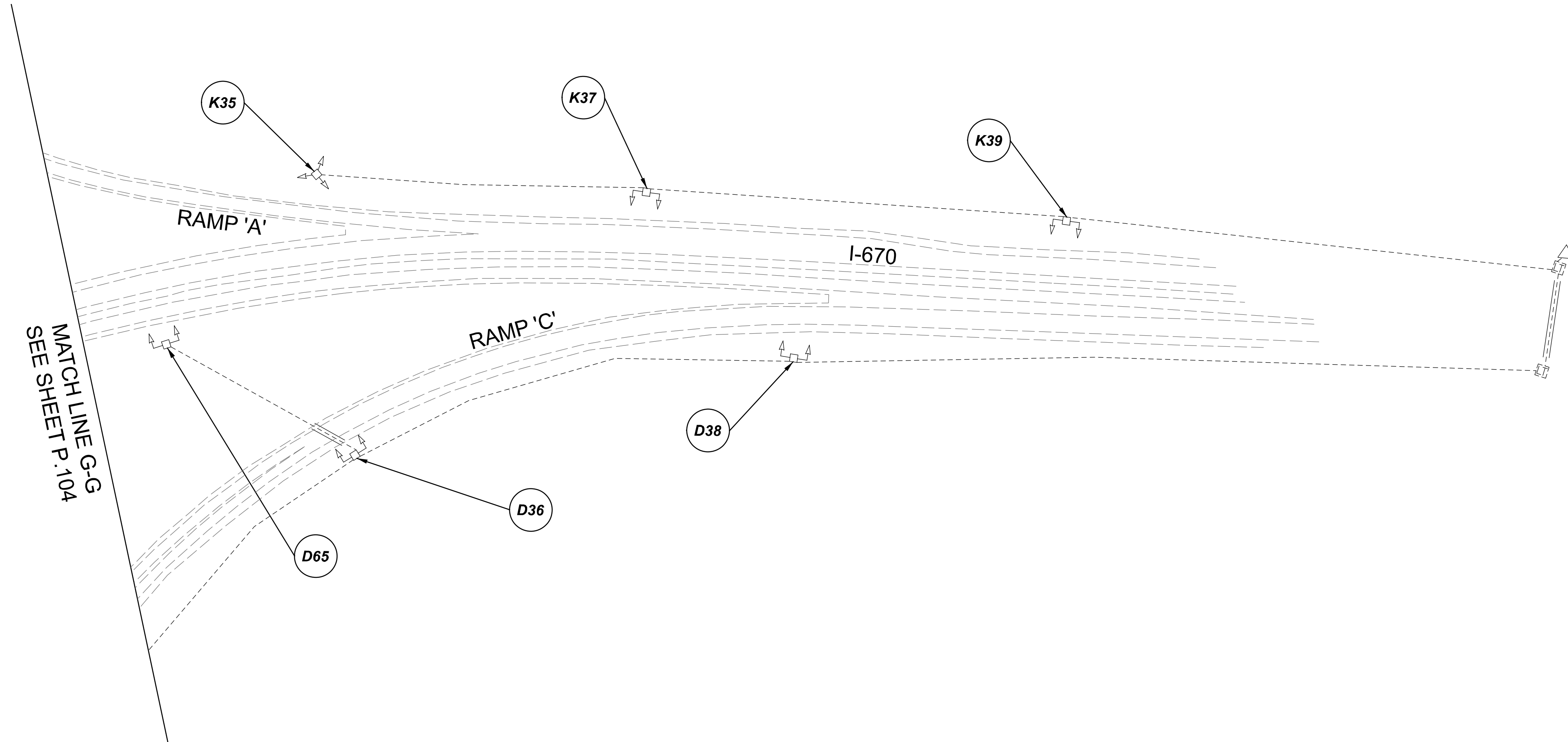
PROJECT ID  
112676

SUBSET	TOTAL
4	5

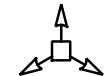
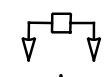
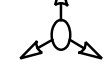
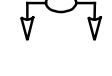
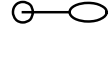



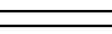

SHEET	TOTAL
P.106	197

D06-Lighting Upgrade FY2021

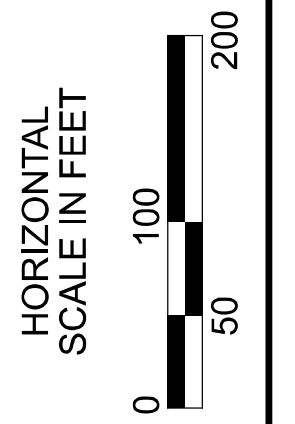
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**LEGEND**

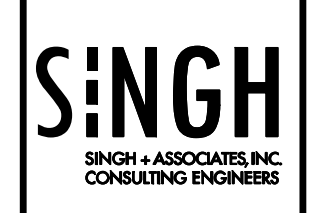
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-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.103 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 40  
I-270 and I-670

DESIGN AGENCY



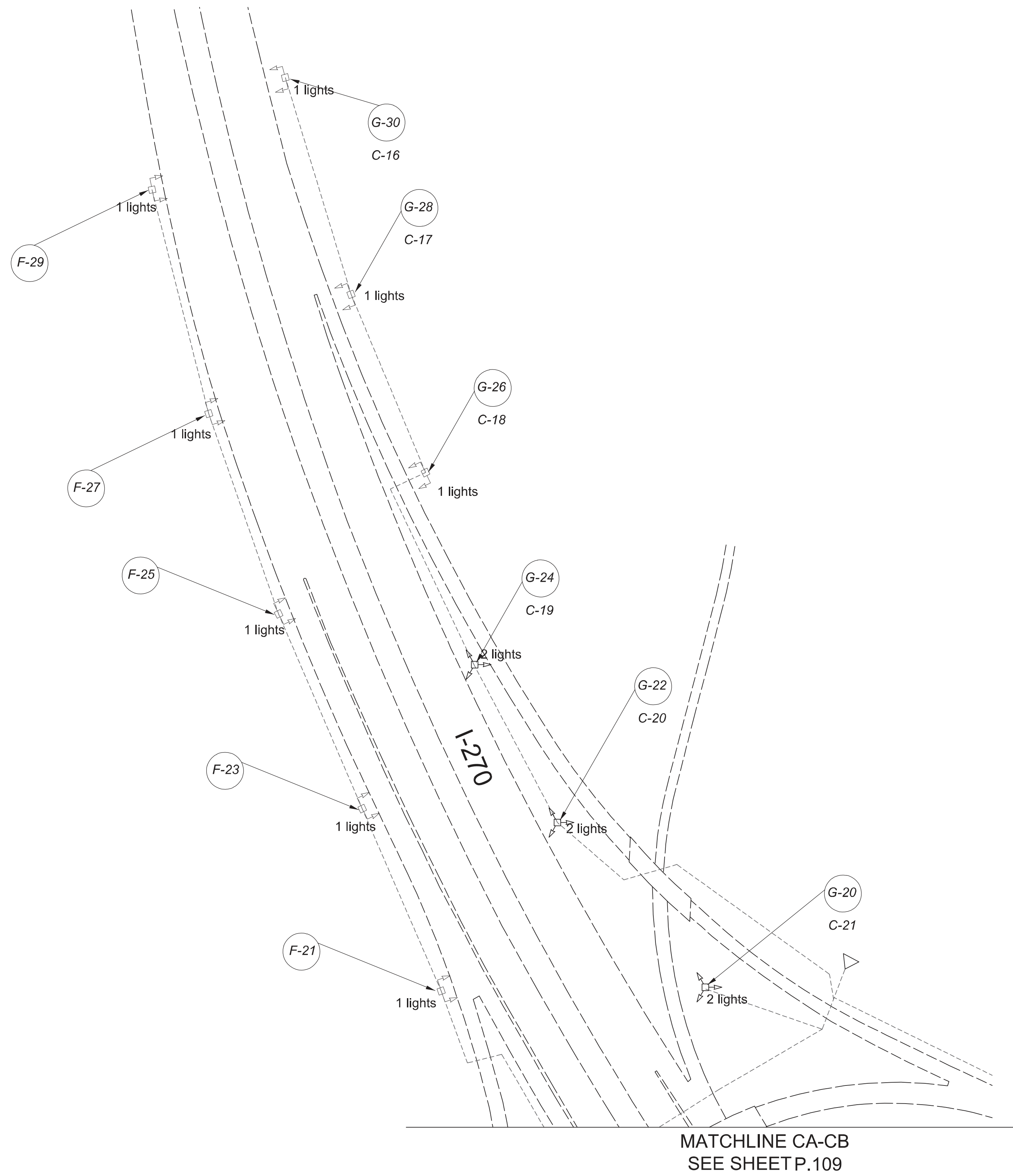
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
5	5

SHEET	TOTAL
P.107	197



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V" "LUMINAIRE MISC. :	LUMINAIRE MISC. : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
B-9	3	2	-	-	2	-	-	1
B-11	5	2	-	2	-	-	-	3
B-13	5	2	-	2	-	-	-	3
B-15	5	2	-	2	-	-	-	3
B-32	5	1	-	1	-	-	-	4
B-33	5	1	-	-	1	-	-	4
C-8	3	2	-	-	2	-	-	1
C-10	3	1	-	1	-	-	-	2
C-12	5	1	-	-	1	-	-	4
C-14	5	2	-	2	-	-	-	3
C-16	5	2	-	2	-	-	-	3
C-34	5	2	-	2	-	-	-	3
D-36	5	2	-	2	-	-	-	3
D-37	5	2	-	2	-	-	-	3
D-47	4	2	-	-	2	-	-	2
E-38	4	2	-	-	2	-	-	2
F-17	5	2	-	2	-	-	-	3
F-19	5	2	-	2	-	-	-	3
F-21	3	1	-	-	1	-	-	2
F-23	3	1	-	-	1	-	-	2
F-25	3	1	-	-	1	-	-	2
F-27	3	1	-	-	1	-	-	2
F-29	3	1	-	-	1	-	-	2
F-31	5	2	-	2	-	-	-	3
G-18	5	2	-	2	-	-	-	3
G-20	5	2	-	2	-	-	-	3
G-22	3	2	-	2	-	-	-	1
G-24	3	2	-	2	-	-	-	1
G-26	3	1	-	-	1	-	-	2
G-28	3	1	-	-	1	-	-	2
G-30	3	1	-	-	1	-	-	2
G-35	5	2	-	2	-	-	-	3

Lighting Plan - Locations D06-41  
I-270 and East Broad

DESIGN AGENCY



DESIGNER  
DT

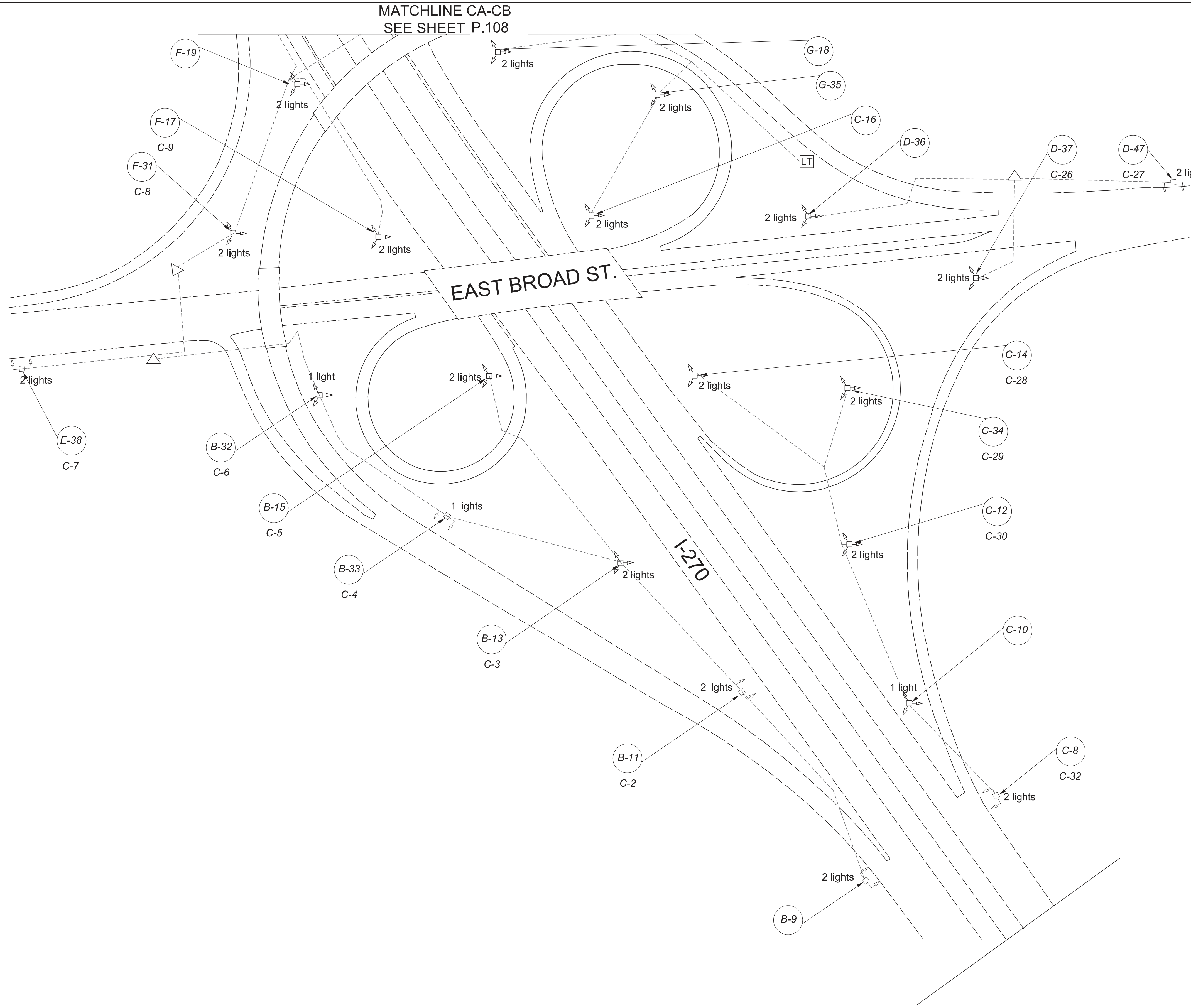
REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
1	2

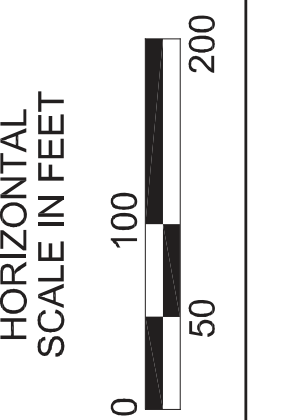
SHEET	TOTAL
P.108	197

MATCHLINE CA-CB  
SEE SHEET P.108



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Locations D06-41  
I-270 and East Broad

DESIGN AGENCY



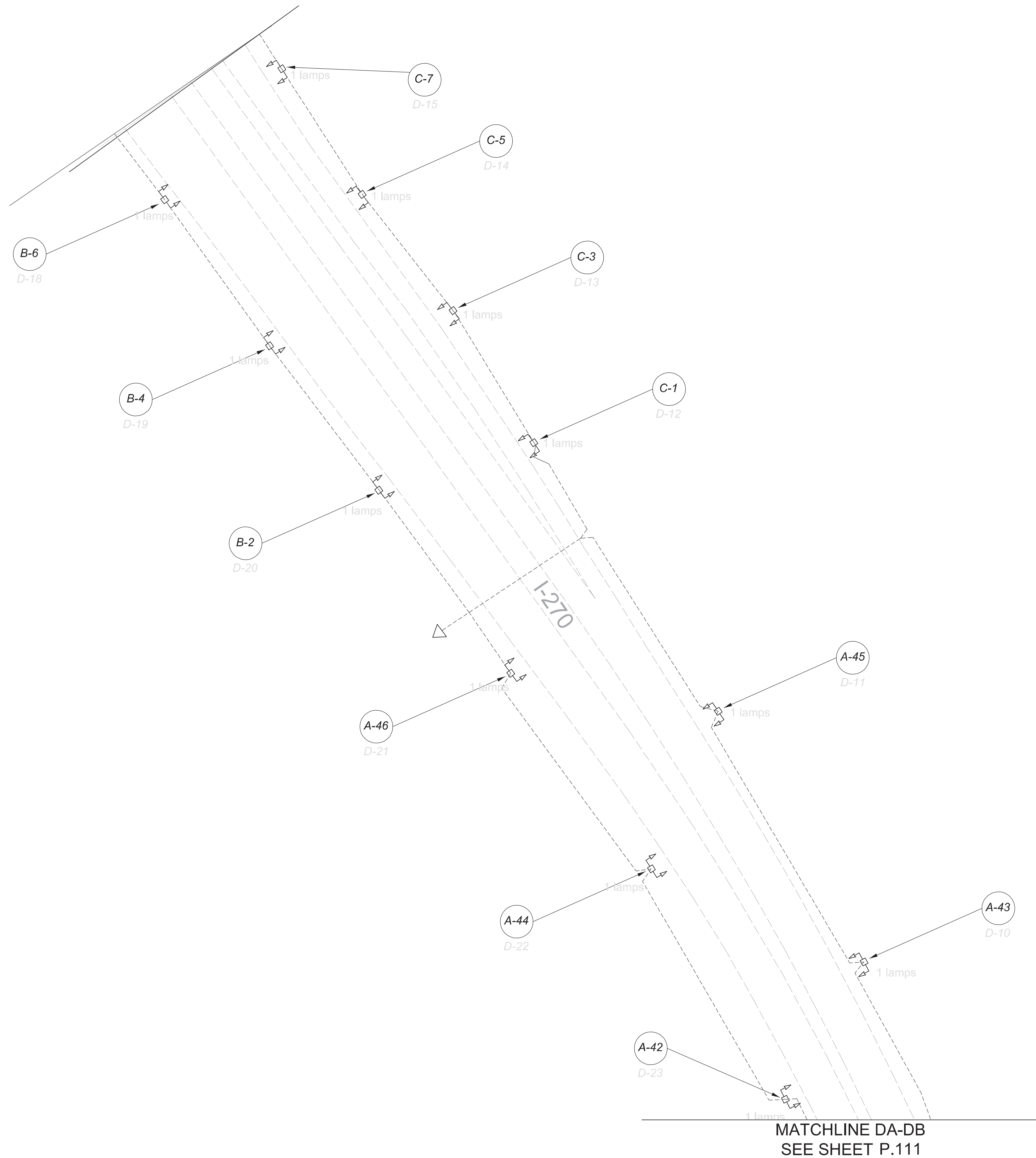
DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.109	197

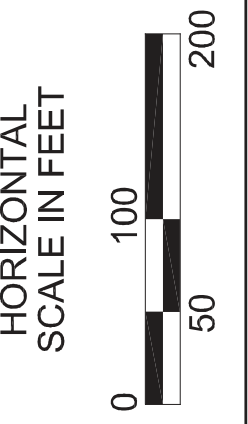


**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC. LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-40	4	1	-	-	1	-	-	3
A-41	4	1	-	-	1	-	-	3
A-42	4	1	-	-	1	-	-	3
A-43	4	1	-	-	1	-	-	3
A-44	4	1	-	-	1	-	-	3
A-45	4	1	-	-	1	-	-	3
A-46	4	1	-	-	1	-	-	3
B-2	3	1	-	-	1	-	-	2
B-4	3	1	-	-	1	-	-	2
B-6	3	1	-	-	1	-	-	2
B-9	3	2	-	-	2	-	-	1
B-18	4	3	-	-	3	-	-	1
B-21	4	1	-	-	1	-	-	3
B-23	4	1	-	-	1	-	-	3
B-25	4	1	-	-	1	-	-	3
B-27	4	1	-	-	1	-	-	3
B-29	4	1	-	-	1	-	-	3
B-31	4	1	-	-	1	-	-	3
B-45	4	1	-	-	1	-	-	3
C-1	3	1	-	-	1	-	-	2
C-3	3	1	-	-	1	-	-	2
C-5	3	1	-	-	1	-	-	2
C-7	3	1	-	-	1	-	-	2
C-8	4	2	-	-	2	-	-	2
C-19	4	3	-	-	3	-	-	1
C-20	4	1	-	-	1	-	-	3
C-22	4	1	-	-	1	-	-	3
C-24	4	1	-	-	1	-	-	3
C-26	4	1	-	-	1	-	-	3
C-28	4	1	-	-	1	-	-	3
C-30	4	1	-	-	1	-	-	3

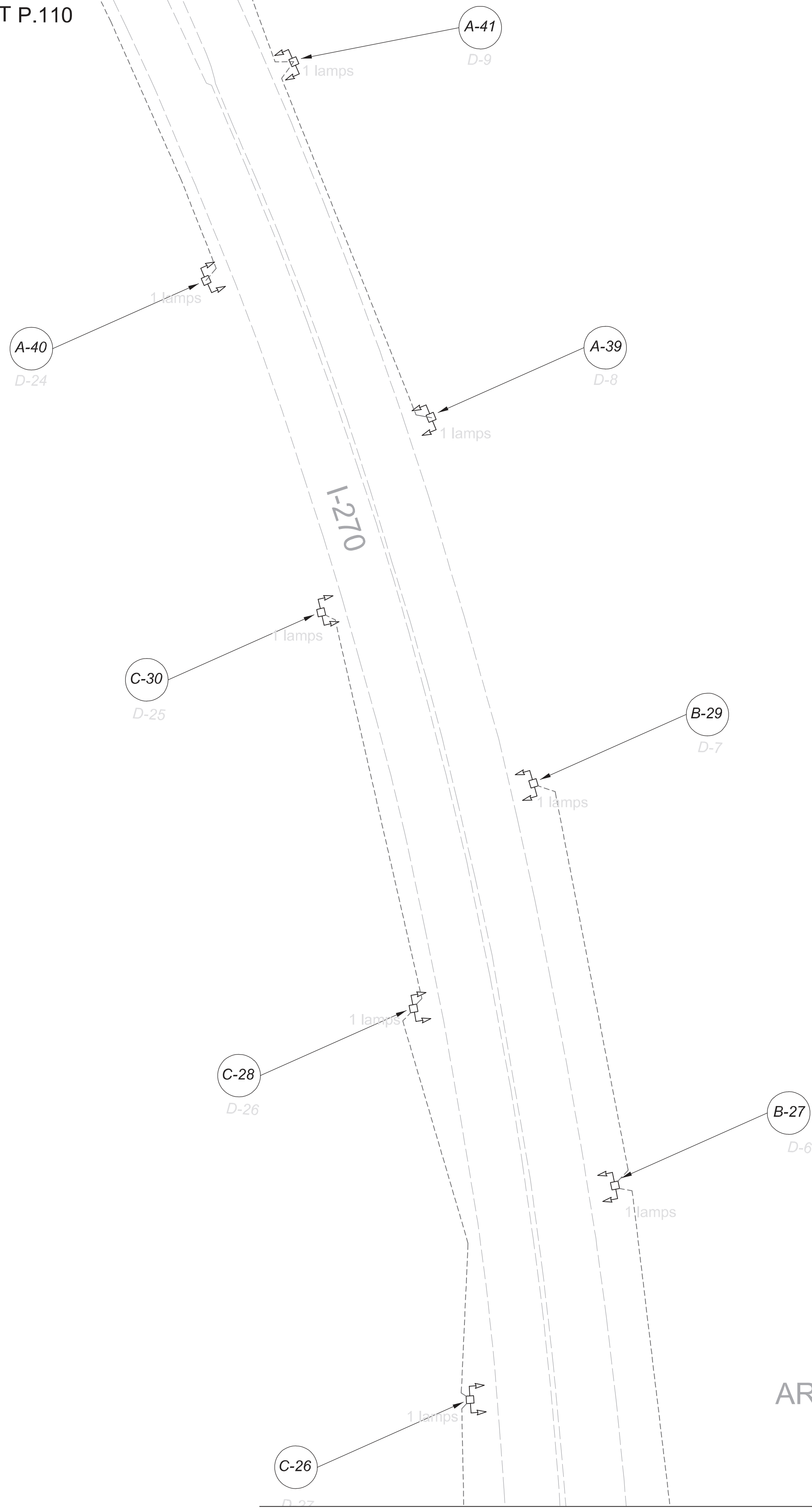
Lighting Plan - Locations D06-41a  
I-270 and Broad to Main



DESIGN AGENCY	
<b>KZF SIGMA</b> Designing Better Futures	
DESIGNER	
DT	
REVIEWER	
ES 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	TOTAL
P.110	197

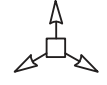
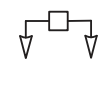
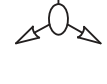



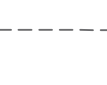





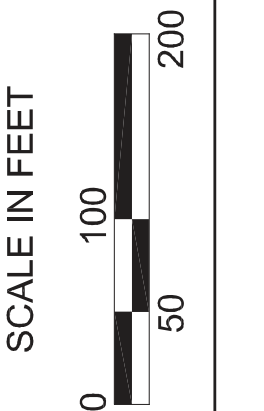
MATCHLINE DA-DB  
SEE SHEET P.110



MATCHLINE DB-DC  
SEE SHEET IP.112

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Locations D06-41a  
I-270 and Broad to Main

DESIGN AGENCY



DESIGNER

DT

REVIEWER

ES 03/11/22

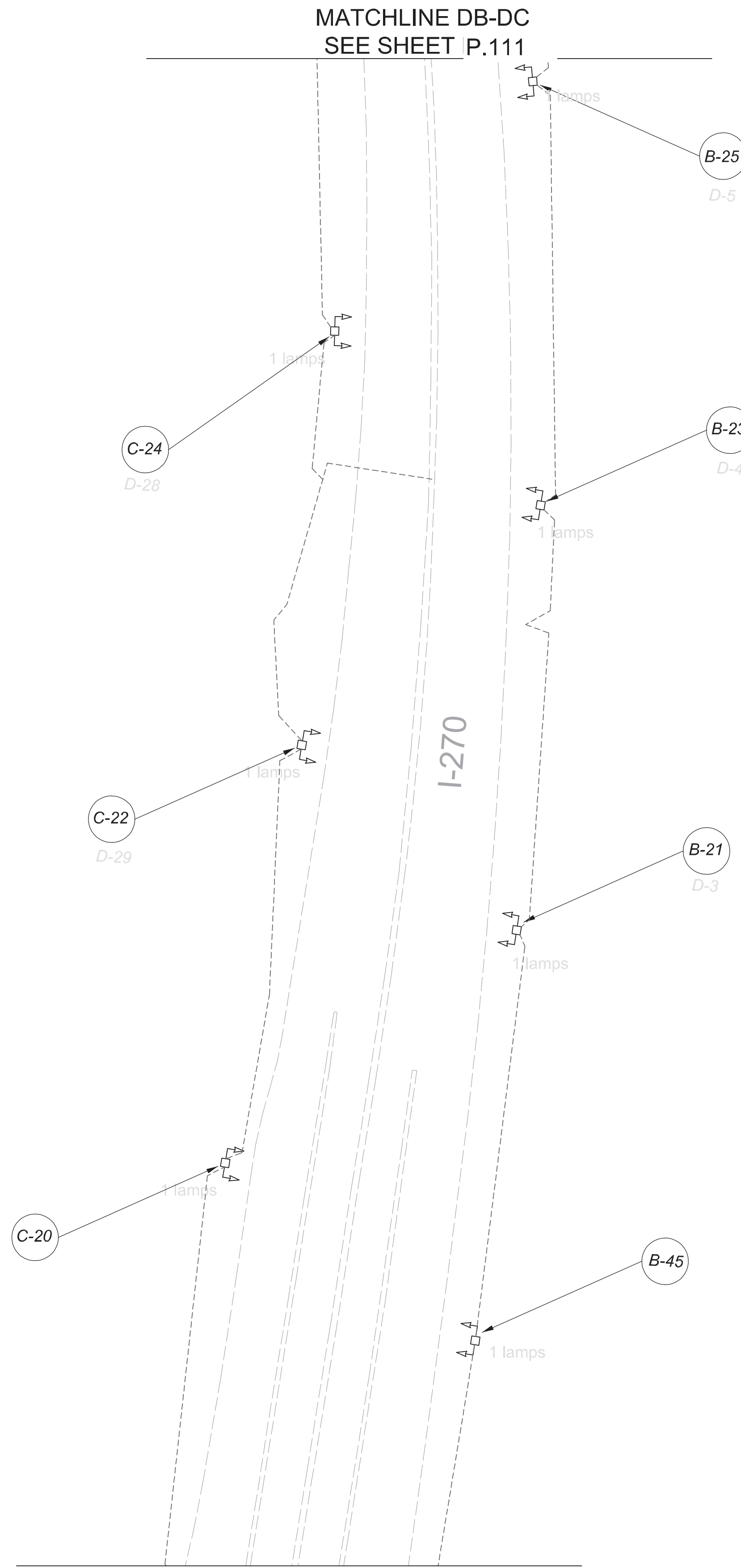
PROJECT ID

112676

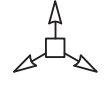
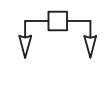
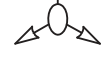



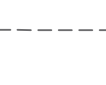
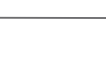


SUBSET	TOTAL
2	3

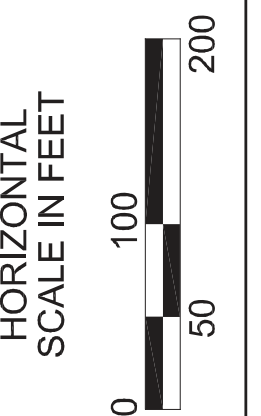
SHEET	TOTAL
P.111	197

SHEET	TOTAL
P.111	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



**Lighting Plan - Locations D06-41a  
I-270 and Broad to Main**

DESIGN AGENCY



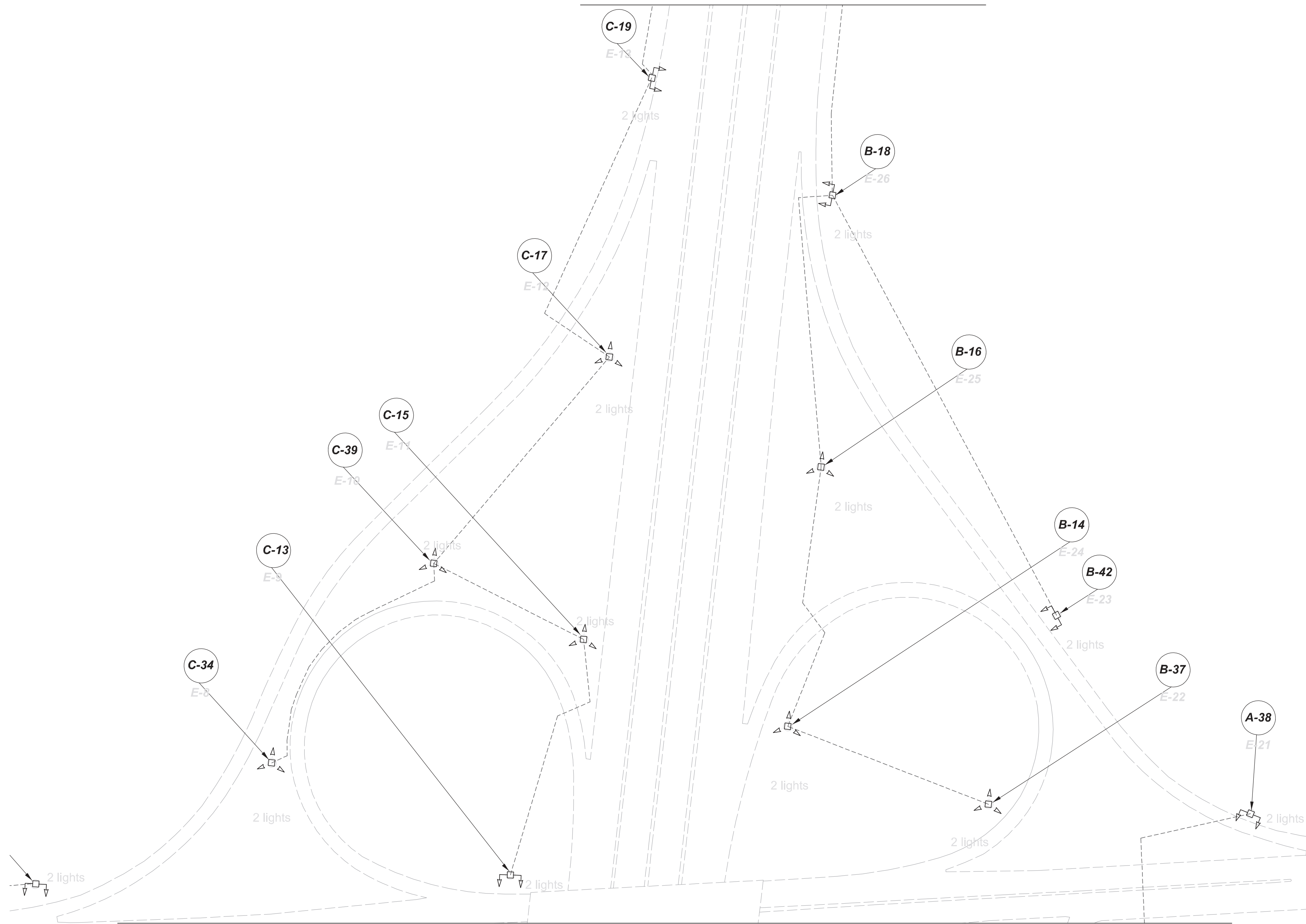
DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
3	3

SHEET	TOTAL
P.112	197



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A-38	4	2	-	-	2	-	-	2
B-14	6	2	-	2	-	-	-	4
B-16	6	2	-	2	-	-	-	4
B-17	6	2	-	-	2	-	-	4
B-18	6	2	-	2	-	-	-	4
B-37	6	2	-	2	-	-	-	4
B-42	4	2	-	-	2	-	-	2
C-13	4	2	-	2	-	-	-	2
C-15	6	2	-	2	-	-	-	4
C-17	6	2	-	2	-	-	-	4
C-19	4	2	-	-	2	-	-	2
C-34	6	2	-	2	-	-	-	4
C-39	6	2	-	2	-	-	-	4
D-32	6	2	-	-	2	-	-	4
E-8	6	2	-	-	2	-	-	4
E-10	6	2	-	2	-	-	-	4
E-12	6	2	-	2	-	-	-	4
E-33	6	2	-	-	2	-	-	4
E-35	4	2	-	2	-	-	-	2
E-40	6	2	-	2	-	-	-	4
F-7	6	2	-	-	2	-	-	4
F-9	6	2	-	2	-	-	-	4
F-11	6	2	-	2	-	-	-	4
F-36	6	2	-	2	-	-	-	4
F-41	6	2	-	2	-	-	-	4
F-44	4	2	-	2	-	-	-	4
J-43	4	2	-	-	2	-	-	2
K-31	4	2	-	-	2	-	-	2

MATCHLINE EA-EB  
SEE SHEET P.114

Lighting Plan - Locations D06-42  
I-270 and East Main

DESIGN AGENCY



DESIGNER  
DT

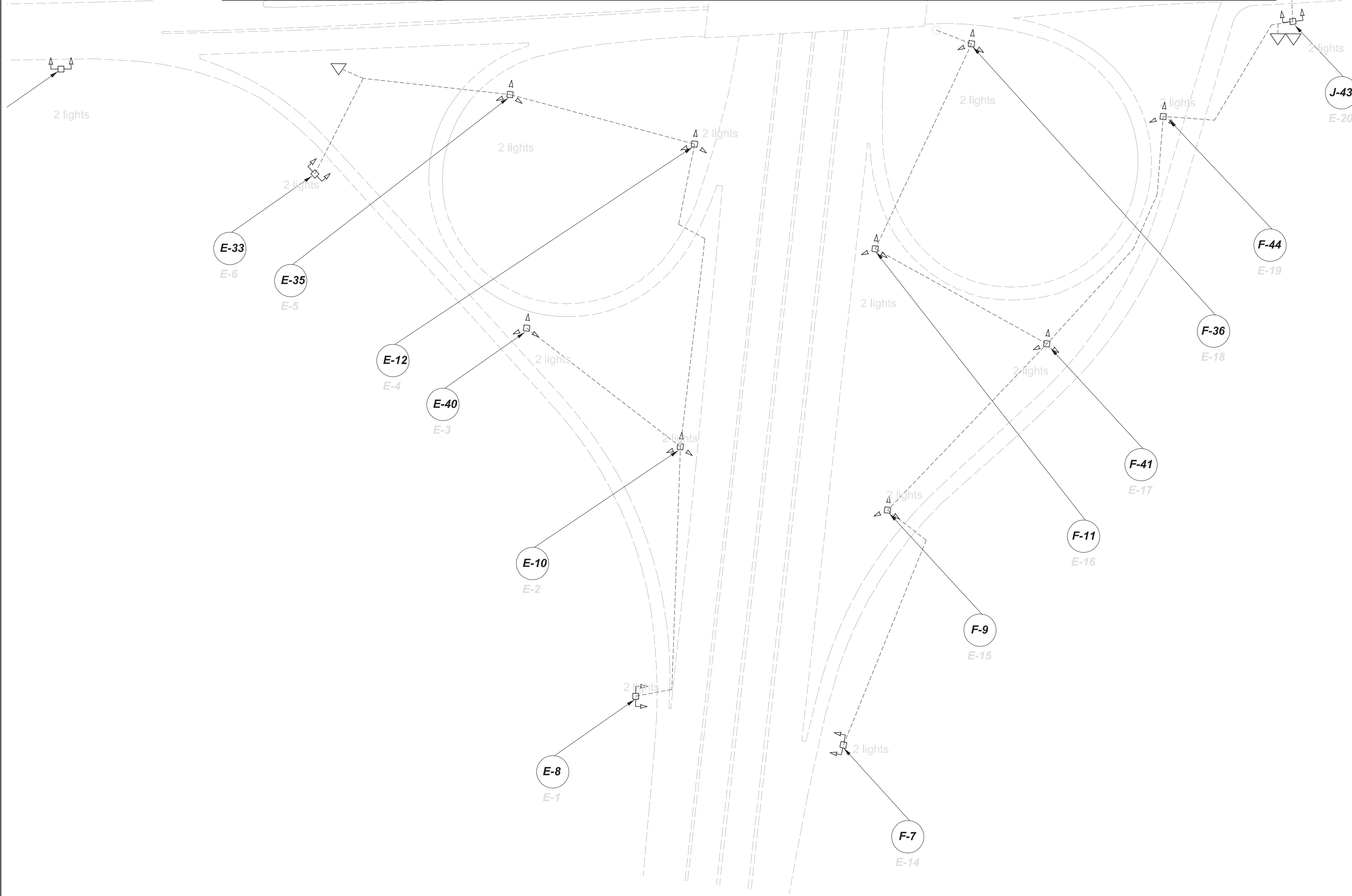
REVIEWER  
ES 03/11/22

PROJECT ID  
112676

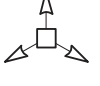
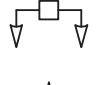


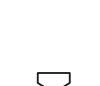


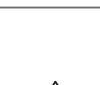


SUBSET	TOTAL
1	2

SHEET	TOTAL
P.113	197

MATCHLINE EA-EB  
SEE SHEET P.113



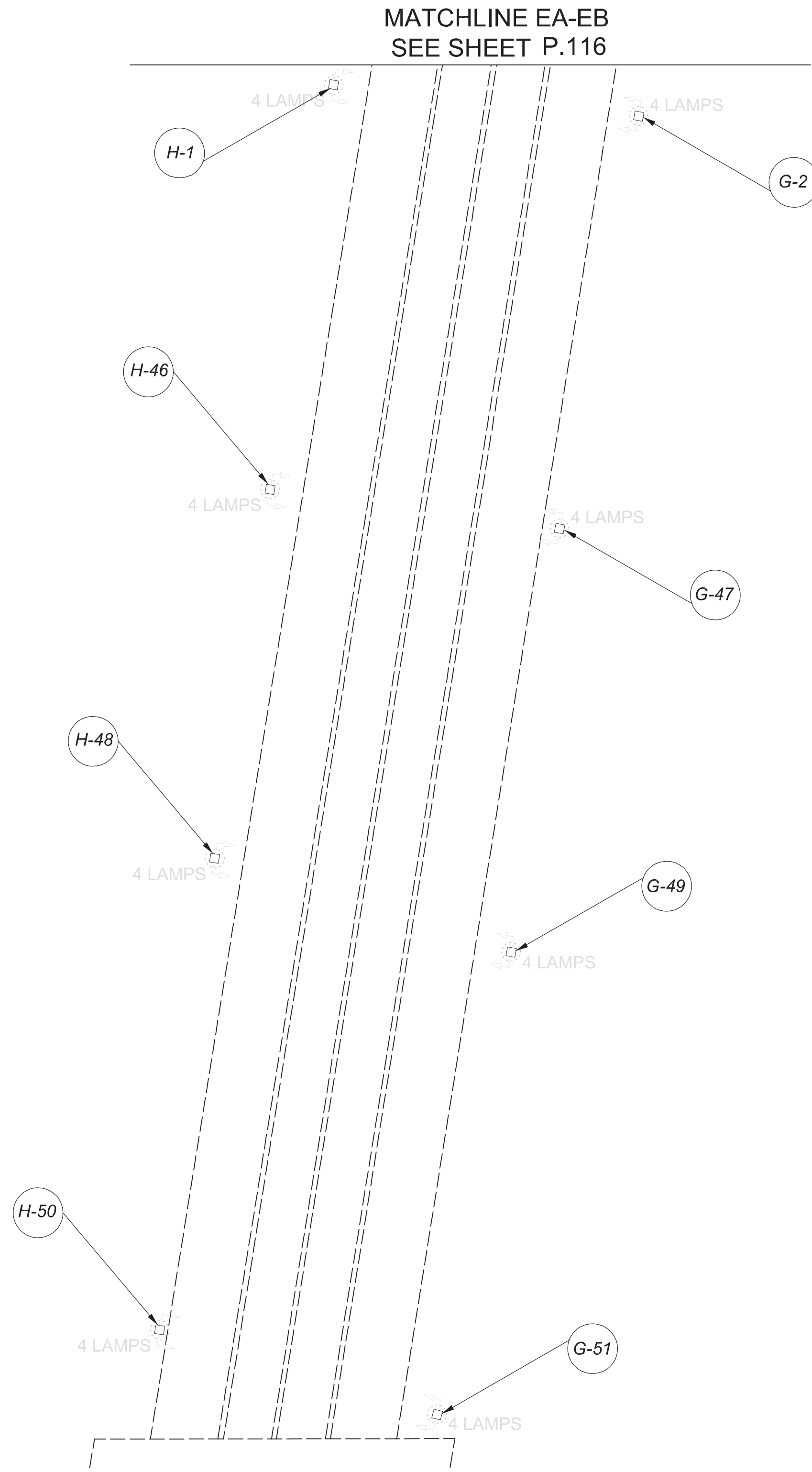
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



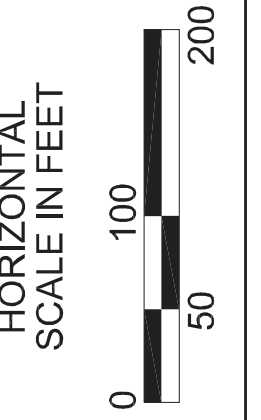
Lighting Plan - Locations D06-42  
I-270 and East Main

DESIGN AGENCY	
<b>KZF DESIGN</b> <small>Designing Better Futures</small>	
DESIGNER	
DT	
REVIEWER	
ES 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET TOTAL	
P.114	197



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING PULL BOX
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
F-8	4	3	-	-	3	-	-	1
F-7	4	3	-	-	3	-	-	1
G-2	4	2	-	-	2	-	-	2
G-4	4	2	-	-	2	-	-	2
G-5	4	2	-	-	2	-	-	2
G-47	4	2	-	-	2	-	-	2
G-49	4	2	-	-	2	-	-	2
G-51	4	2	-	-	2	-	-	2
H-1	4	2	-	-	2	-	-	2
H-3	4	2	-	-	2	-	-	2
H-6	4	2	-	-	2	-	-	2
H-46	4	2	-	-	2	-	-	2
H-48	4	2	-	-	2	-	-	2
H-50	4	2	-	-	2	-	-	2

**Lighting Plan - Locations D06-42a  
I-170 and Main to Livingston**

DESIGN AGENCY



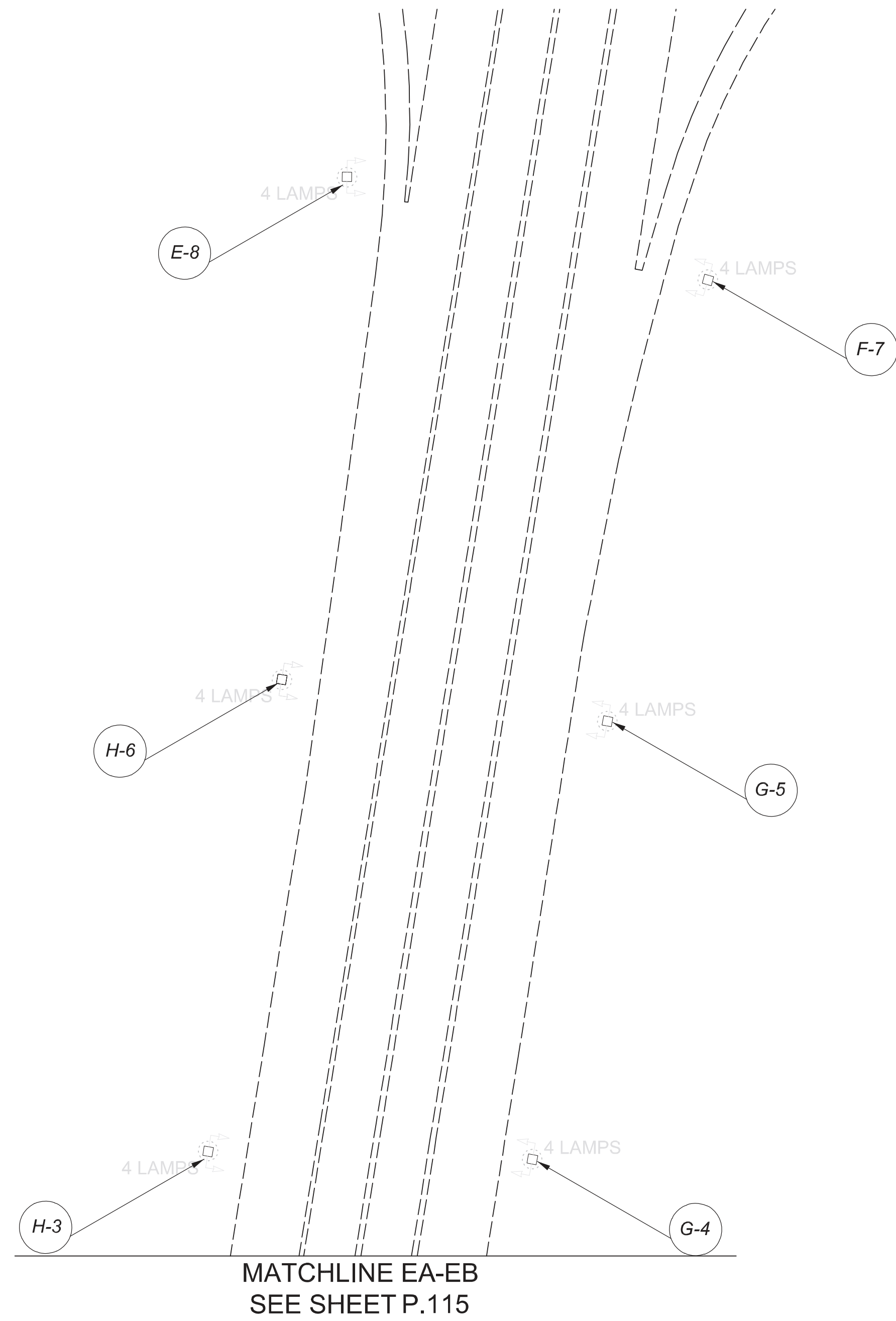
DESIGNER  
DT

REVIEWER  
ES 03/11/22







PROJECT ID  
112676

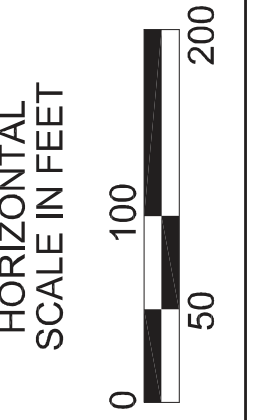
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.115	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CABLE
-  EXISTING CONDUIT
-  EXISTING PULL BOX
-  EXISTING CONTROL CENTER



Lighting Plan - Locations D06-42a  
I-170 and Main to Livingston

DESIGN AGENCY



DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.116	197

THIS SHEET IS INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS

MATCHLINE GA-GB SEE SHEET P.118

MATCHLINE GA-GE SEE THIS SHEET

MATCHLINE GA-GE SEE THIS SHEET

MATCHLINE GA-GF SEE THIS SHEET

MATCHLINE GA-GB SEE SHEET P.118

I-70 EAST

I-270



Lighting Plan - Locations D06-43  
I-270 and I-70 East

DESIGN AGENCY



DESIGNER

DT

REVIEWER

ES 03/11/22

PROJECT ID

112676

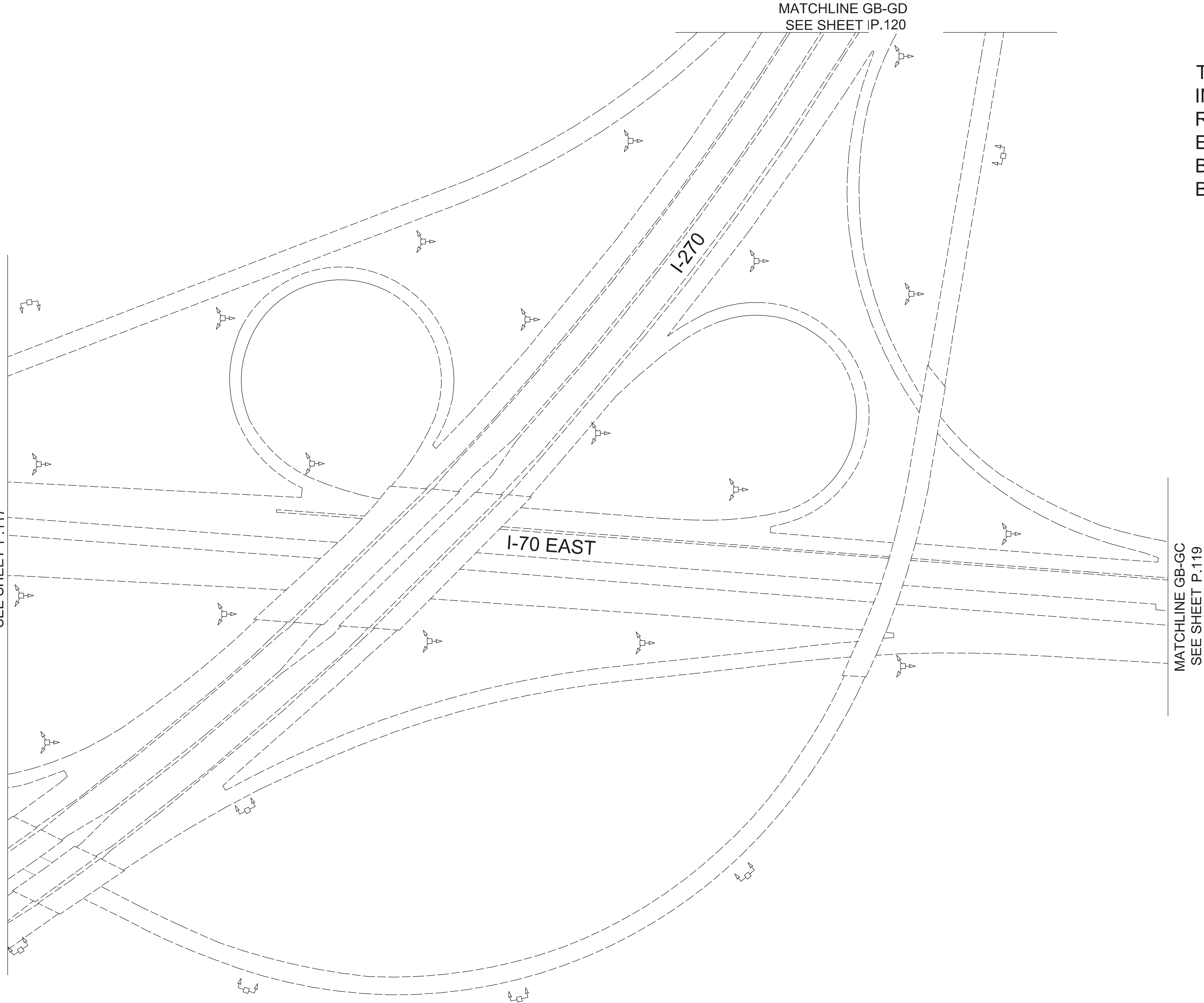
SUBSET TOTAL

1 4

SHEET TOTAL

P.117 197

MATCHLINE GA-GB  
SEE SHEET P.117



MATCHLINE GB-GD  
SEE SHEET IP.120

MATCHLINE GB-GC  
SEE SHEET P.119

THIS SHEET IS INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS



Lighting Plan - Locations D06-43  
I-270 and I-70 East

DESIGN AGENCY



DESIGNER  
DT

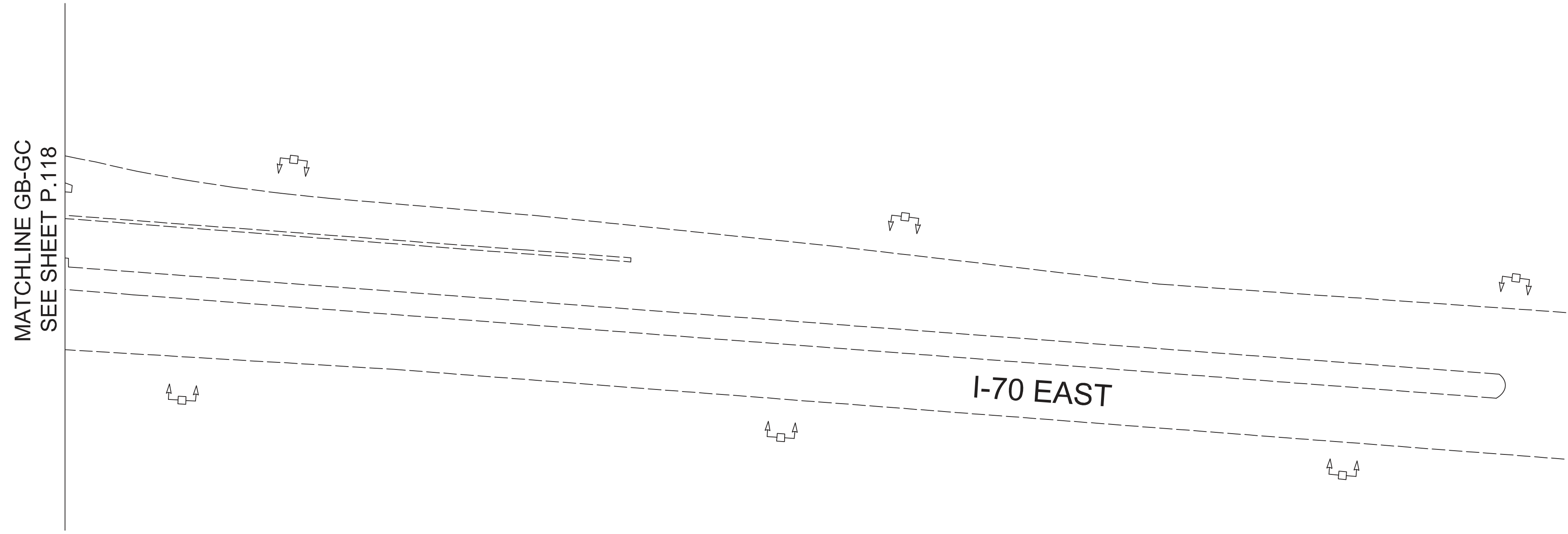
REVIEWER  
ES 03/11/22

PROJECT ID  
112676

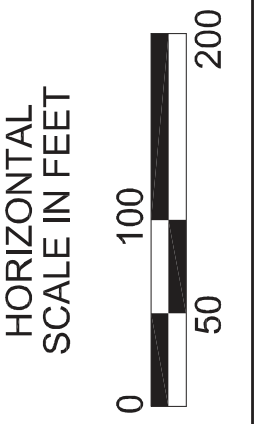
SUBSET	TOTAL
2	4

SHEET	TOTAL
P.118	197





THIS SHEET IS INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS



Lighting Plan - Locations D06-43  
I-270 and I-70 East

DESIGN AGENCY



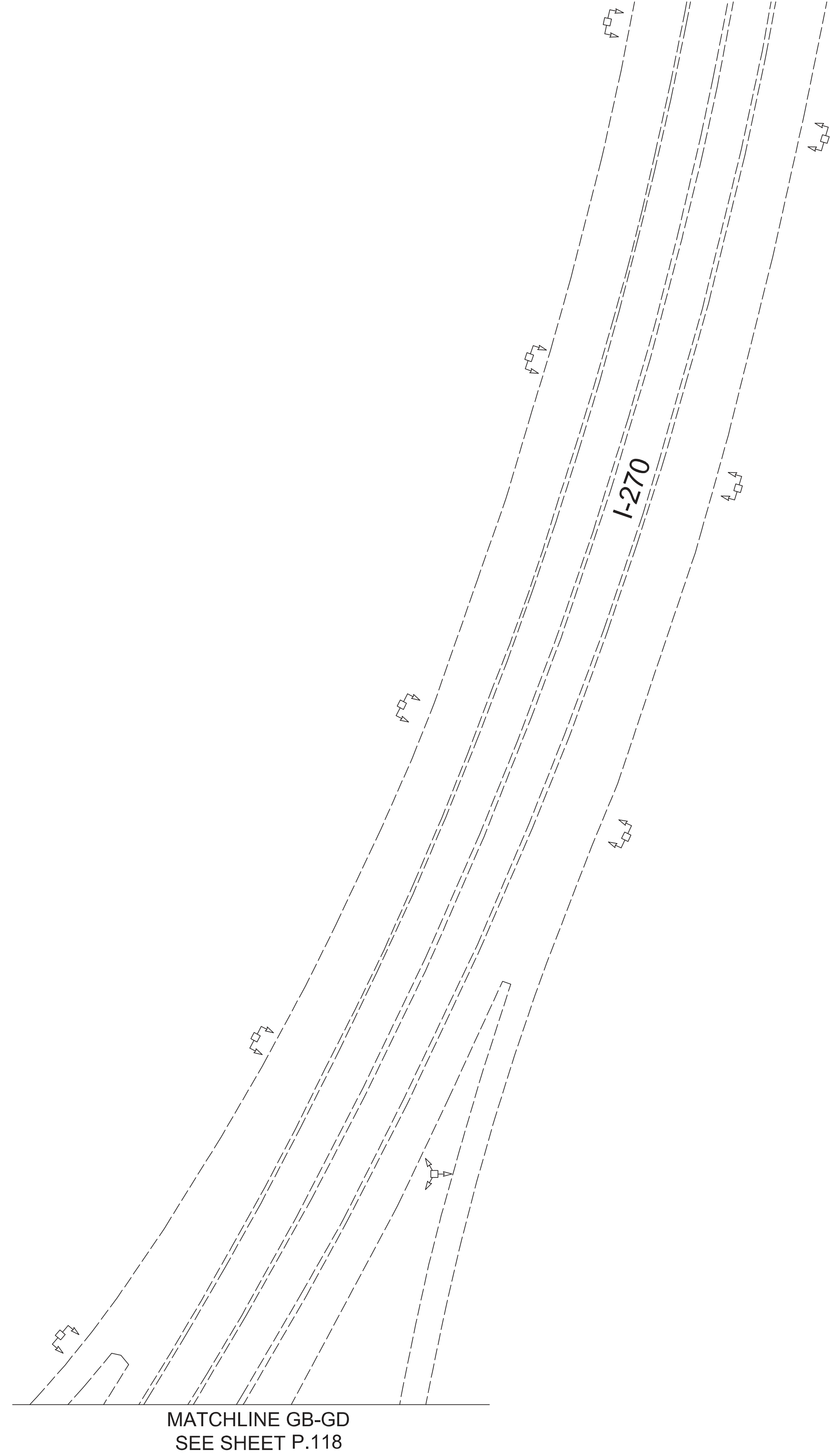
DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
3	4

SHEET	TOTAL
P.119	197



THIS SHEET IS INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS



Lighting Plan - Locations D06-43  
I-270 and I-70 East

DESIGN AGENCY



DESIGNER  
DT

REVIEWER  
ES 03/11/22







PROJECT ID  
112676

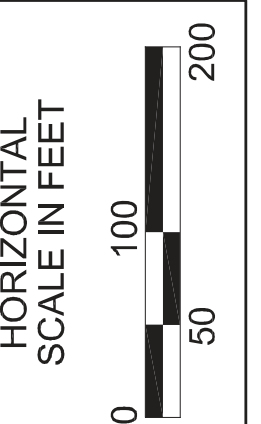
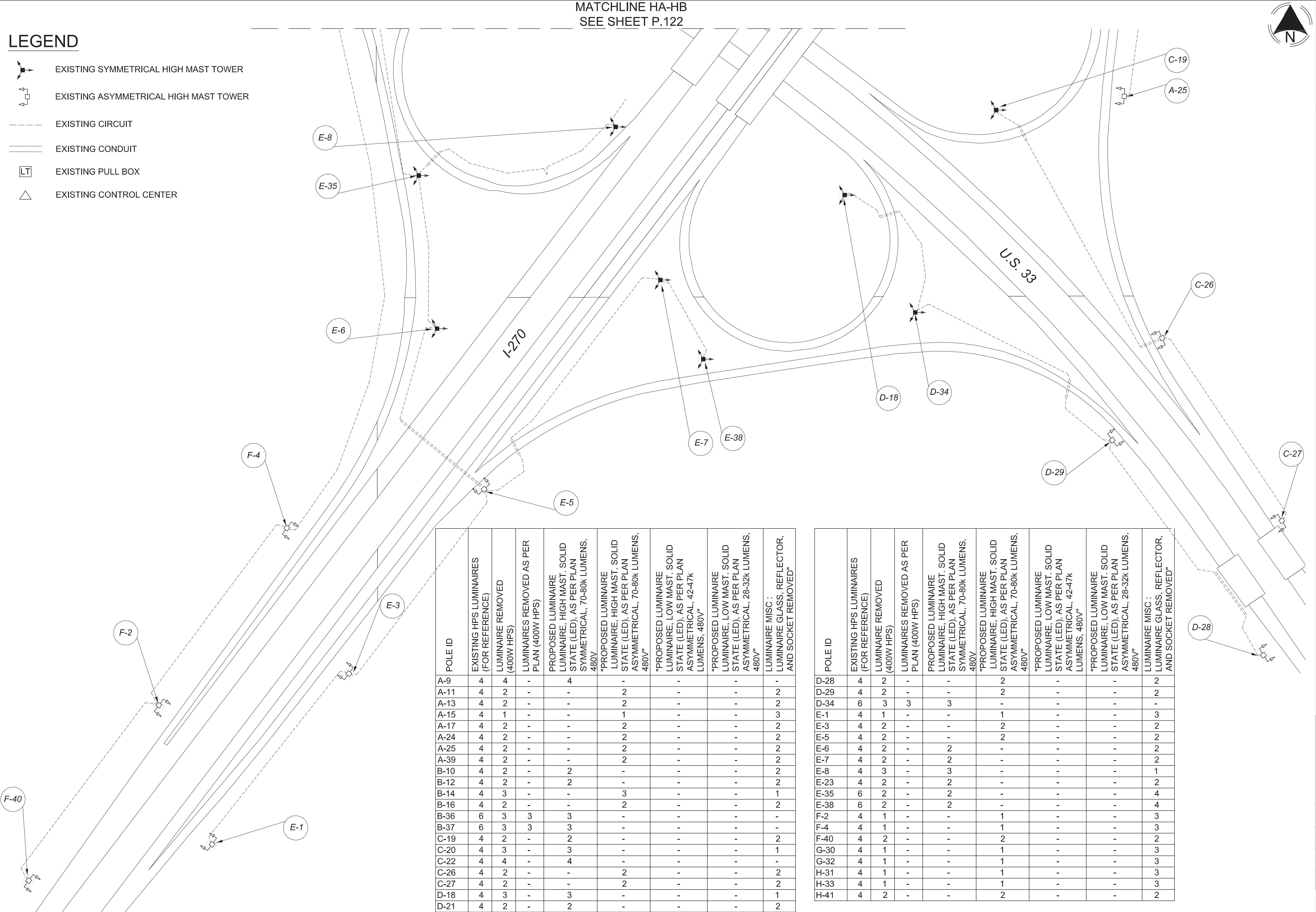
SUBSET	TOTAL
4	4

SHEET	TOTAL
P.120	197

MATCHLINE HA-HB  
SEE SHEET P.122

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING PULL BOX
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-9	4	4	-	4	-	-	-	-
A-11	4	2	-	-	2	-	-	2
A-13	4	2	-	-	2	-	-	2
A-15	4	1	-	-	1	-	-	3
A-17	4	2	-	-	2	-	-	2
A-24	4	2	-	-	2	-	-	2
A-25	4	2	-	-	2	-	-	2
A-39	4	2	-	-	2	-	-	2
B-10	4	2	-	2	-	-	-	2
B-12	4	2	-	2	-	-	-	2
B-14	4	3	-	-	3	-	-	1
B-16	4	2	-	-	2	-	-	2
B-36	6	3	3	3	-	-	-	-
B-37	6	3	3	3	-	-	-	-
C-19	4	2	-	2	-	-	-	2
C-20	4	3	-	3	-	-	-	1
C-22	4	4	-	4	-	-	-	-
C-26	4	2	-	-	2	-	-	2
C-27	4	2	-	-	2	-	-	2
D-18	4	3	-	3	-	-	-	1
D-21	4	2	-	2	-	-	-	2

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
D-28	4	2	-	-	2	-	-	2
D-29	4	2	-	-	2	-	-	2
D-34	6	3	3	3	-	-	-	-
E-1	4	1	-	-	1	-	-	3
E-3	4	2	-	-	2	-	-	2
E-5	4	2	-	-	2	-	-	2
E-6	4	2	-	2	-	-	-	2
E-7	4	2	-	2	-	-	-	2
E-8	4	3	-	3	-	-	-	1
E-23	4	2	-	2	-	-	-	2
E-35	6	2	-	2	-	-	-	4
E-38	6	2	-	2	-	-	-	4
F-2	4	1	-	-	1	-	-	3
F-4	4	1	-	-	1	-	-	3
F-40	4	2	-	-	2	-	-	2
G-30	4	1	-	-	1	-	-	3
G-32	4	1	-	-	1	-	-	3
H-31	4	1	-	-	1	-	-	3
H-33	4	1	-	-	1	-	-	3
H-41	4	2	-	-	2	-	-	2

Lighting Plan - Locations D06-44  
I-270 and East Broad

DESIGN AGENCY



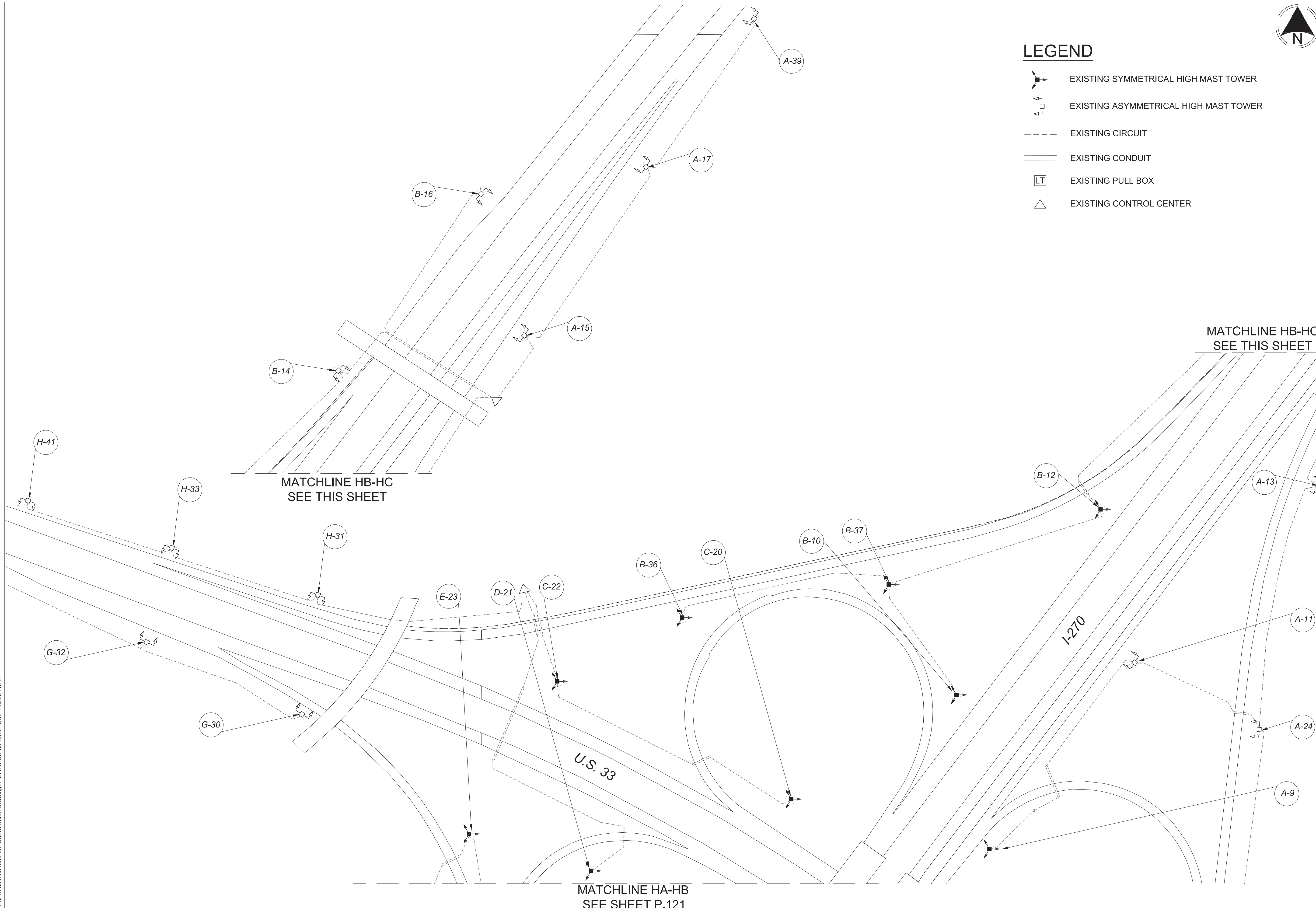
DESIGNER  
DT

REVIEWER  
ES 03/11/22


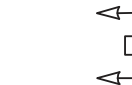




PROJECT ID  
112676

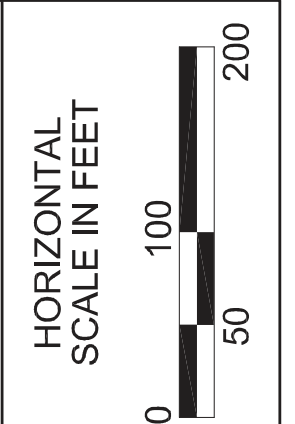
SUBSET	TOTAL
2	2

SHEET	TOTAL
P.121	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING PULL BOX
-  EXISTING CONTROL CENTER



**Lighting Plan - Locations D06-44**  
**I-270 and U.S. 33 East**

DESIGN AGENCY



DESIGNER  
DT

REVIEWER  
ES 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

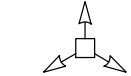
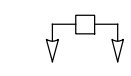
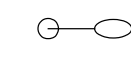
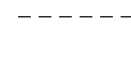
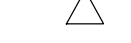
SHEET	TOTAL
P.122	197

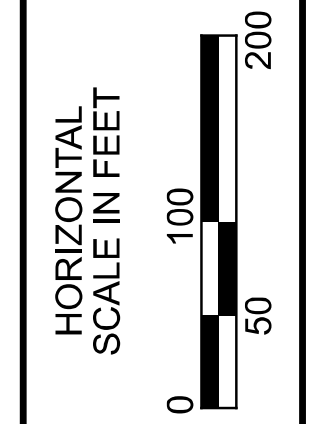
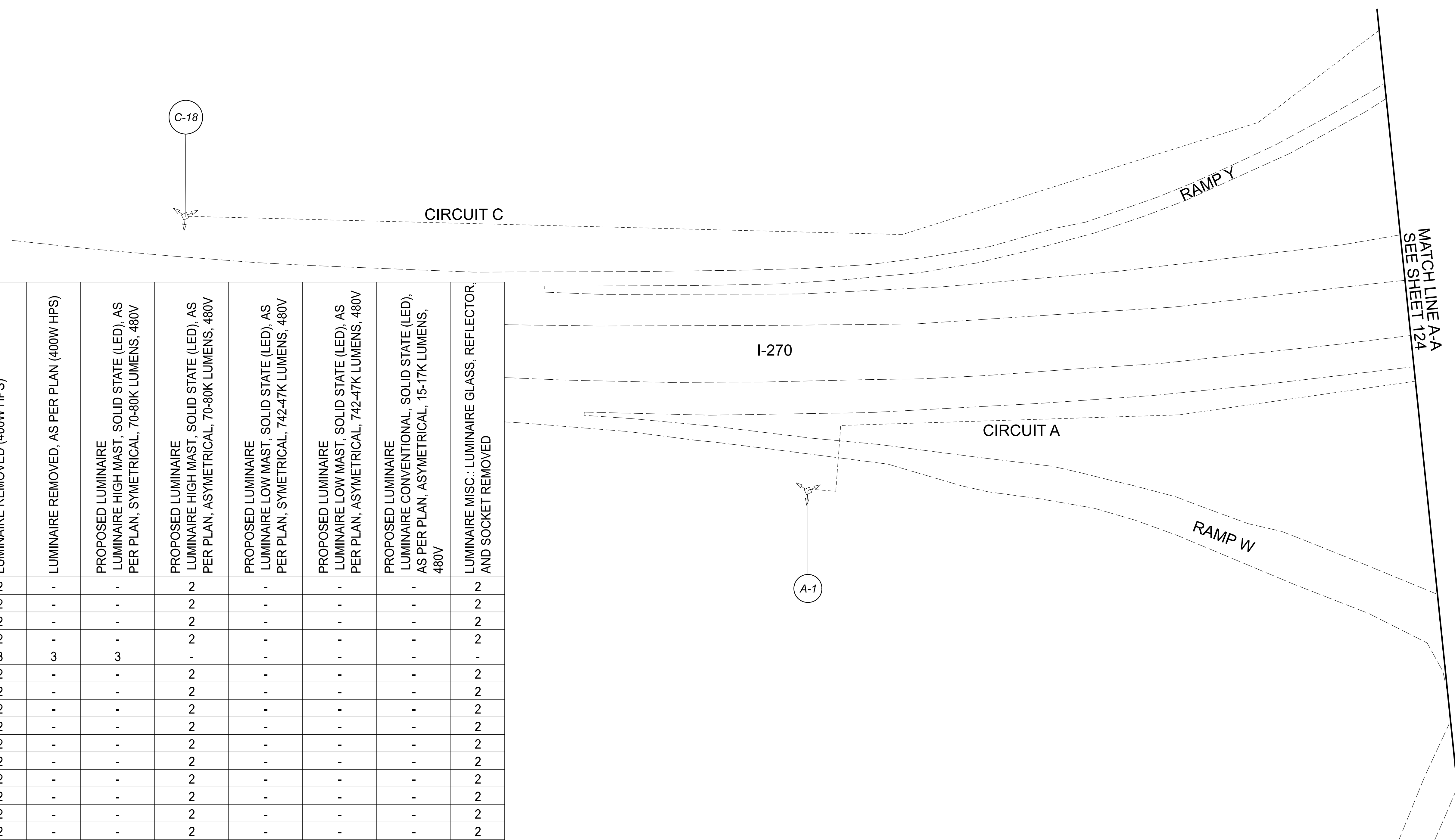
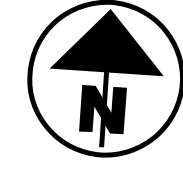
D06 Lighting Upgrade FY2021

MODEL: I12676\_LP\_OIA PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:43:53 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\Statewide\112676\_402-Engineering-JMT\Lighting\Sheets\112676\_LP001.dgn


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A-1	4	2	-	-	2	-	-	-	2
A-9	4	2	-	-	2	-	-	-	2
A-11	4	2	-	-	2	-	-	-	2
B-6	4	2	-	-	2	-	-	-	2
B-8	6	3	3	3	-	-	-	-	-
B-10	4	2	-	-	2	-	-	-	2
B-12	4	2	-	-	2	-	-	-	2
B-17	4	2	-	-	2	-	-	-	2
C-4	4	2	-	-	2	-	-	-	2
C-13	4	2	-	-	2	-	-	-	2
C-14	4	2	-	-	2	-	-	-	2
C-15	4	2	-	-	2	-	-	-	2
C-16	4	2	-	-	2	-	-	-	2
C-18	4	2	-	-	2	-	-	-	2
C-X1	4	2	-	-	2	-	-	-	2
C-X2	4	2	-	-	2	-	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

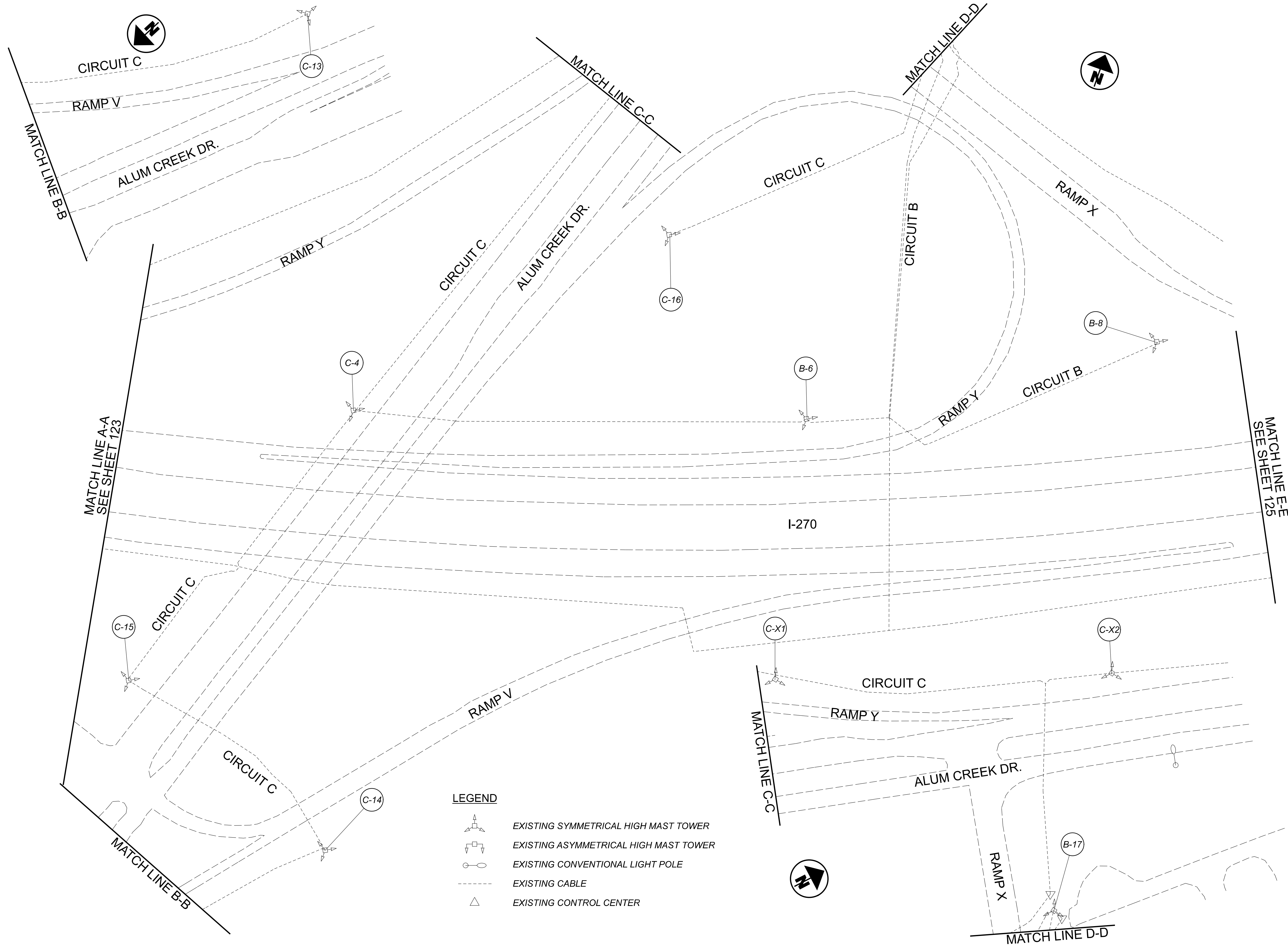


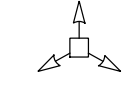
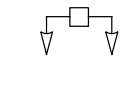
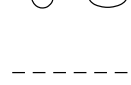


Lighting Plan - Location D06-45  
 I-270 and Alum Creek Dr.

DESIGN AGENCY	
	
2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43231	
DESIGNER	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
123	197

D06 Lighting Upgrade FY2021

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 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01Active Projects\_Statewide\112676\_402-Engineering\_JMT\Lighting\_Sheets\112676\_LP002.dgn



- LEGEND**
-  EXISTING SYMMETRICAL HIGH MAST TOWER
  -  EXISTING ASYMMETRICAL HIGH MAST TOWER
  -  EXISTING CONVENTIONAL LIGHT POLE
  -  EXISTING CABLE
  -  EXISTING CONTROL CENTER



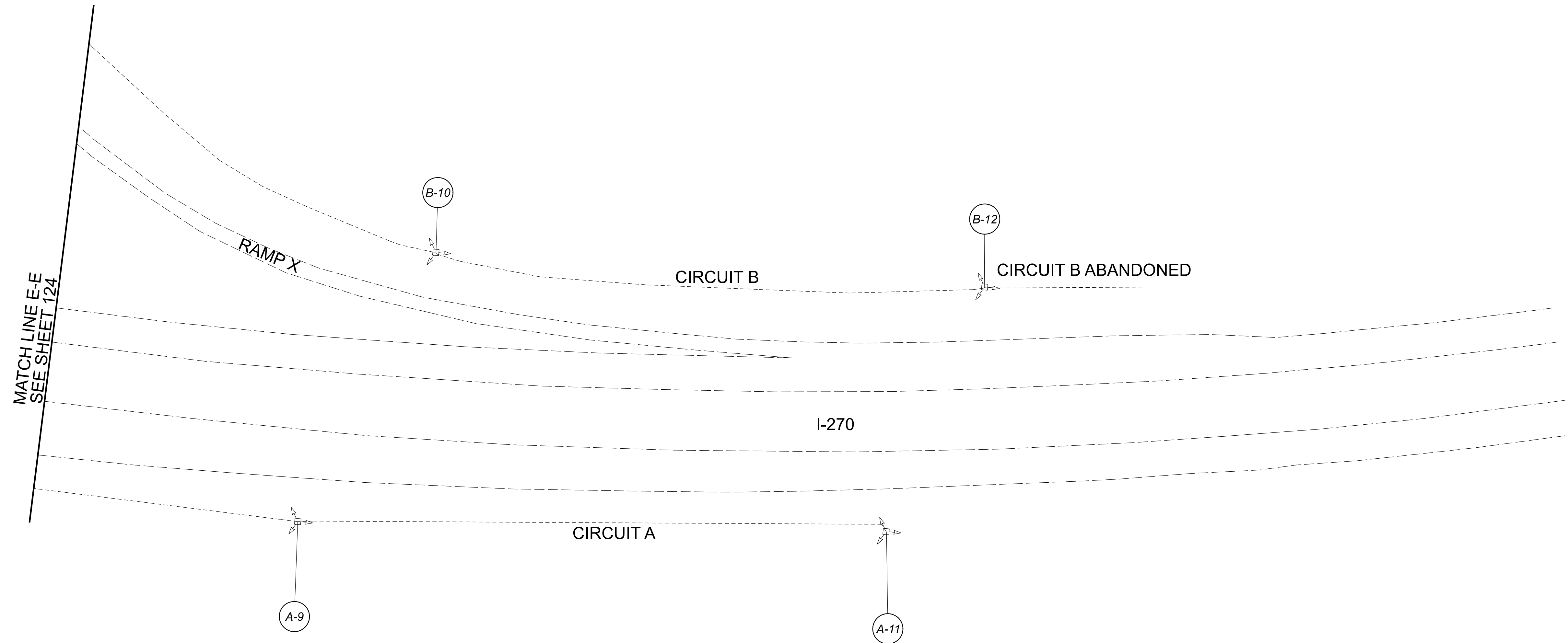
Lighting Plan - Location D06-45  
 I-270 and Alum Creek Dr.

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43221

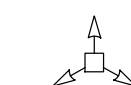
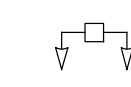
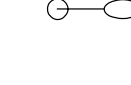


DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	TOTAL
124	197

D06 Lighting Upgrade FY2021

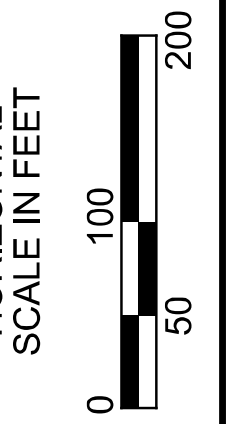
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

Lighting Plan - Location D06-45  
 I-270 and Alum Creek Dr.



DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

DESIGNER  
 DA  
 REVIEWER  
 RJM 03/11/22

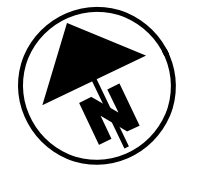
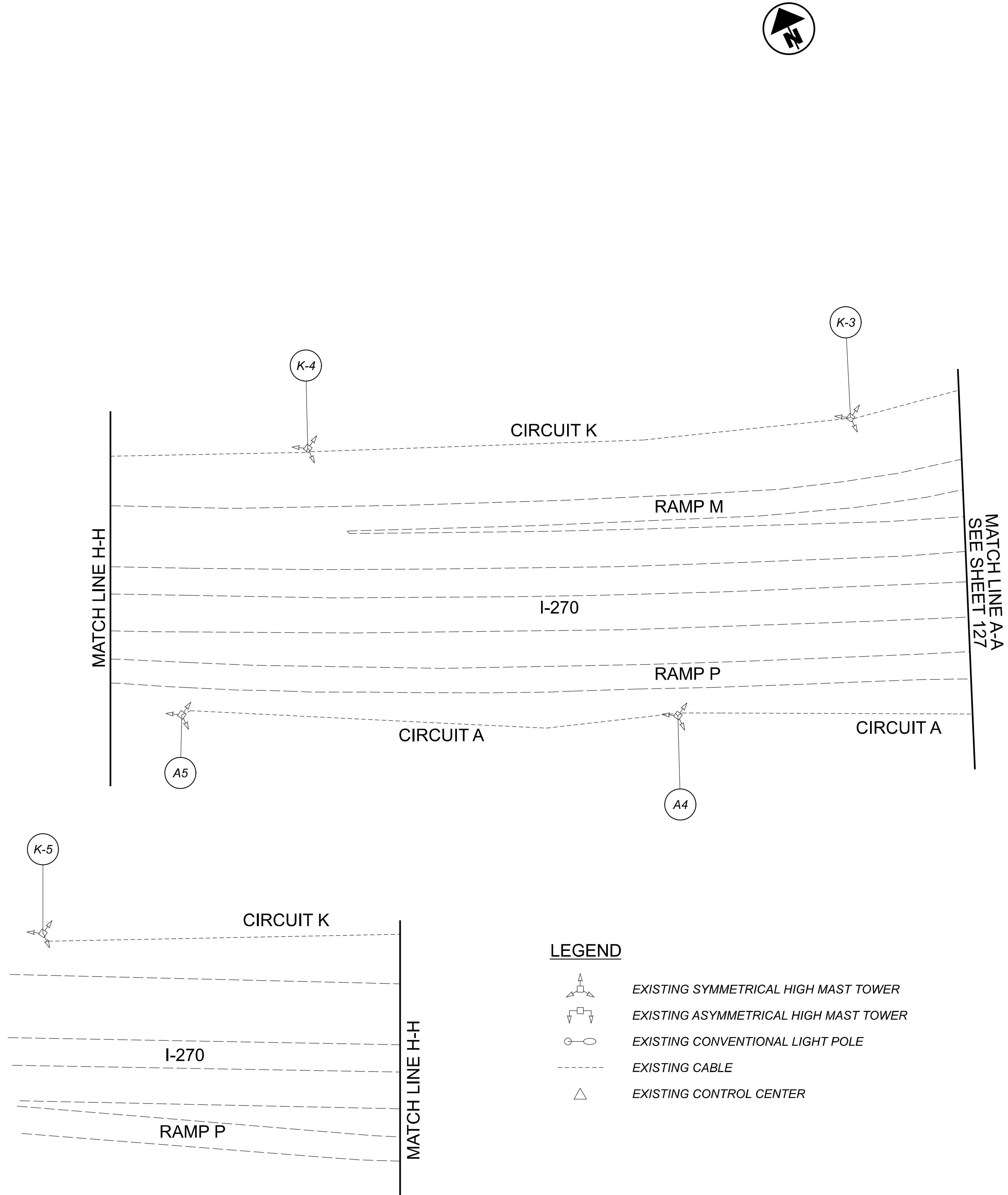
PROJECT ID  
 112676

SHEET	TOTAL
125	197

D06 Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
BA1	6	3	3	3	-	-	-	-	-
A2	4	4	-	4	-	-	-	-	-
A3	4	2	-	-	2	-	-	-	2
A4	4	2	-	-	2	-	-	-	2
A5	4	2	-	-	2	-	-	-	2
A6	4	4	-	4	-	-	-	-	-
B1	4	4	-	4	-	-	-	-	-
B2	4	4	-	4	-	-	-	-	-
B3	4	4	-	4	-	-	-	-	-
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
C1	4	2	-	-	2	-	-	-	2
C2	4	4	-	4	-	-	-	-	-
C3	4	2	-	-	2	-	-	-	2
E1	4	2	-	-	2	-	-	-	2
E2	4	2	-	-	2	-	-	-	2
E3	4	2	-	-	2	-	-	-	2
F-1	4	4	-	4	-	-	-	-	-
F-2	4	2	-	-	2	-	-	-	2
H-1	4	4	-	4	-	-	-	-	-
H-2	8	2	4	-	2	-	-	-	2
H-3	6	2	-	-	2	-	-	-	4
K-1	6	3	3	3	-	-	-	-	-
K-2	4	2	-	-	2	-	-	-	2
K-3	4	2	-	-	2	-	-	-	2
K-4	4	2	-	-	2	-	-	-	2
K-5	4	2	-	-	2	-	-	-	2
K-6	4	2	-	-	2	-	-	-	2
K-7	4	2	-	-	2	-	-	-	2
M-1	4	2	-	-	2	-	-	-	2
M-2	4	2	-	-	2	-	-	-	2
M-3	4	2	-	-	2	-	-	-	2
M-4	4	2	-	-	2	-	-	-	2
M-5	4	2	-	-	2	-	-	-	2



Lighting Plan - Location D06-46  
I-270 and US-23

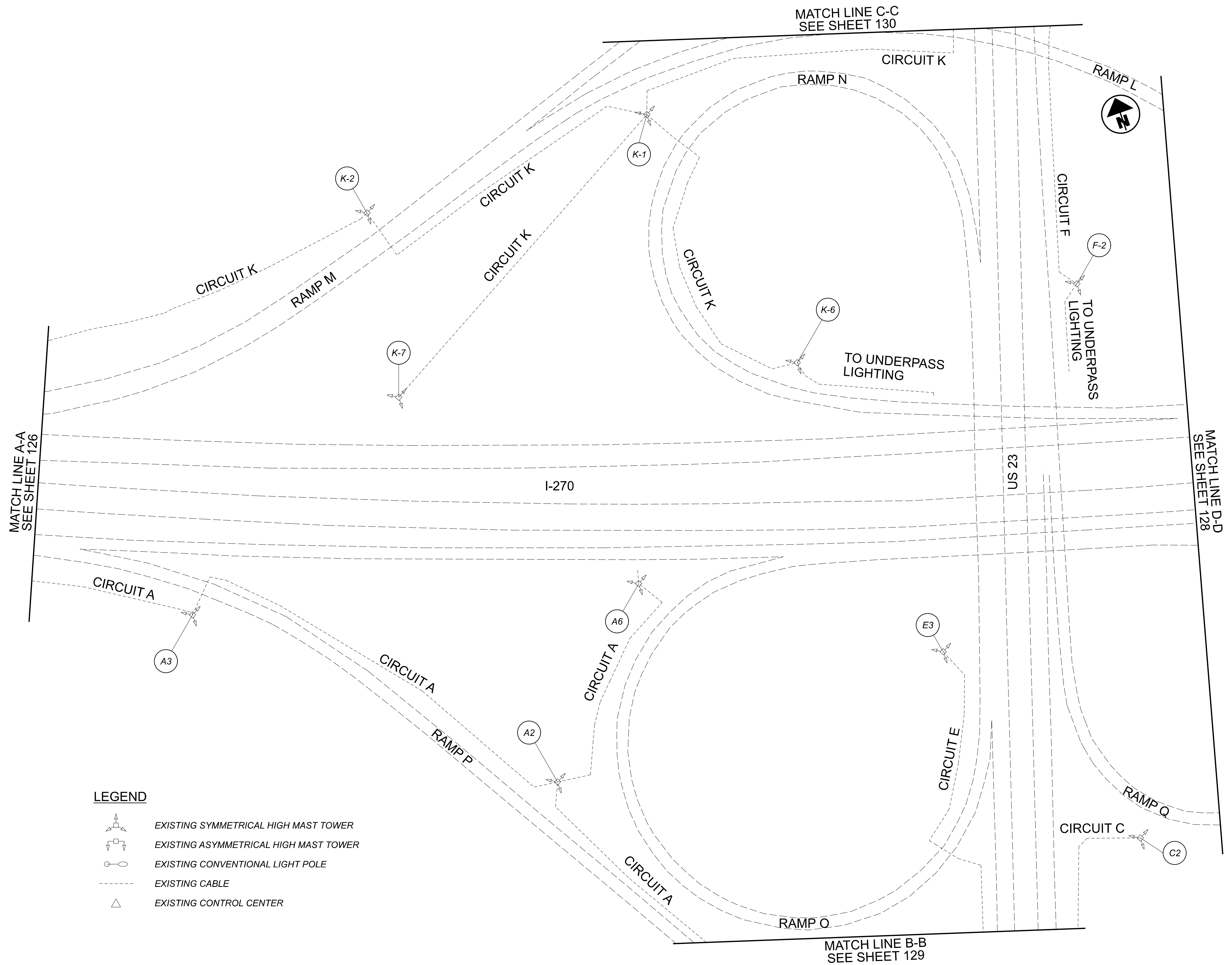
DESIGNER		DA
REVIEWER		RJM 03/11/22
PROJECT ID		112676
SHEET	TOTAL	126   197

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

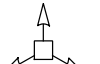
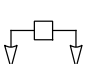
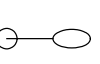
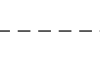



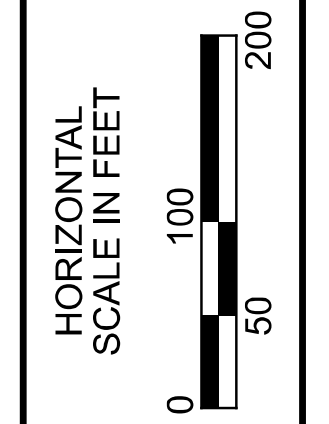
D06 Lighting Upgrade FY2021

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 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP005.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



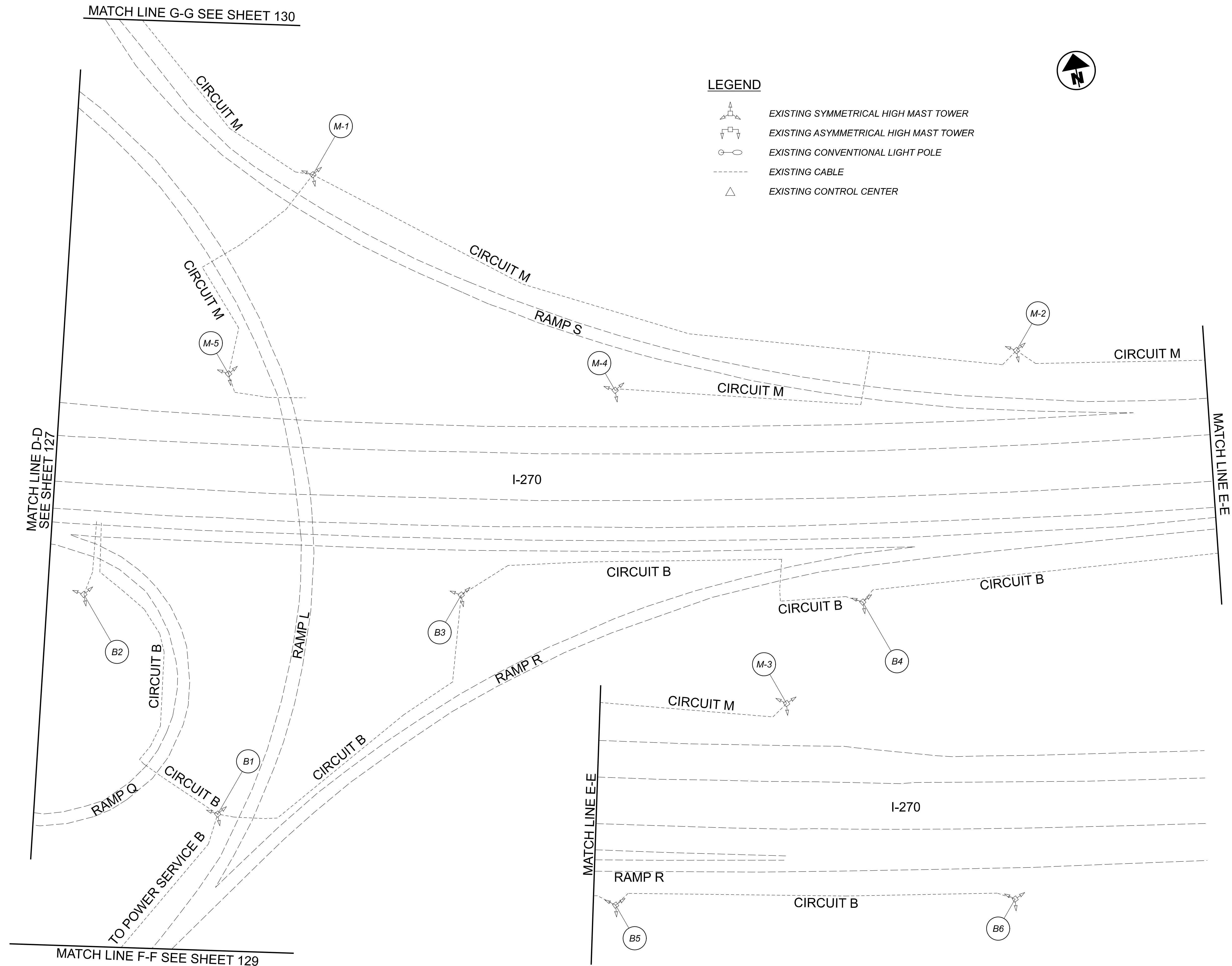
Lighting Plan - Location D06-46  
 I-270 and US-23

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250,  
 Columbus, OH 43231


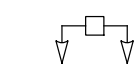
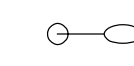
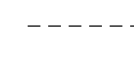

DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	127
TOTAL	197

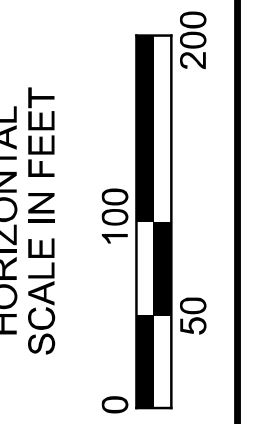
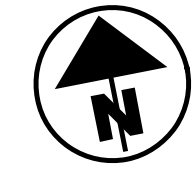
D06 Lighting Upgrade FY2021

MODEL: 112676\_LP006 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:45:17 AM USER: DAddison  
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\Statewide\112676\_LP006.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



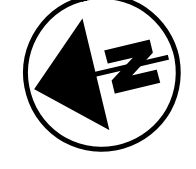
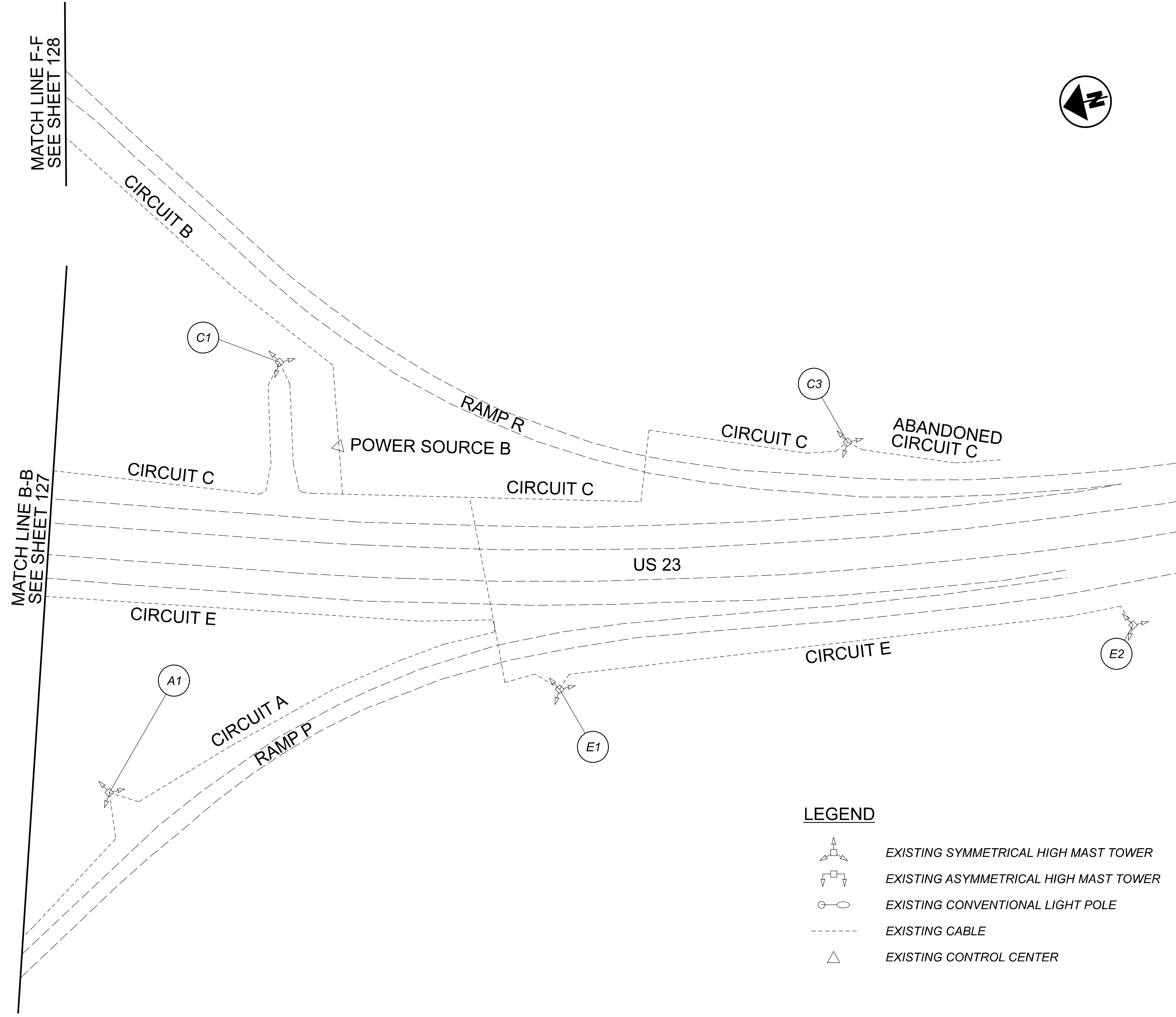
Lighting Plan - Location D06-46  
 I-270 and US-23

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43221

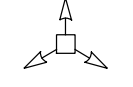
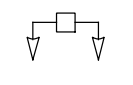
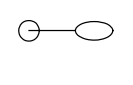
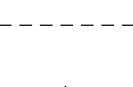

DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	128
TOTAL	197

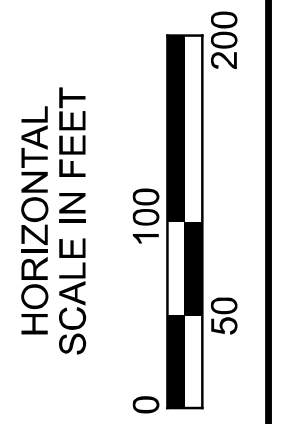
D06 Lighting Upgrade FY2021

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 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\_402-Engineering\_JMT\Lighting\Sheets\112676\_LP007.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



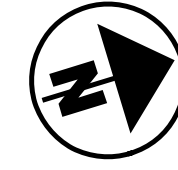
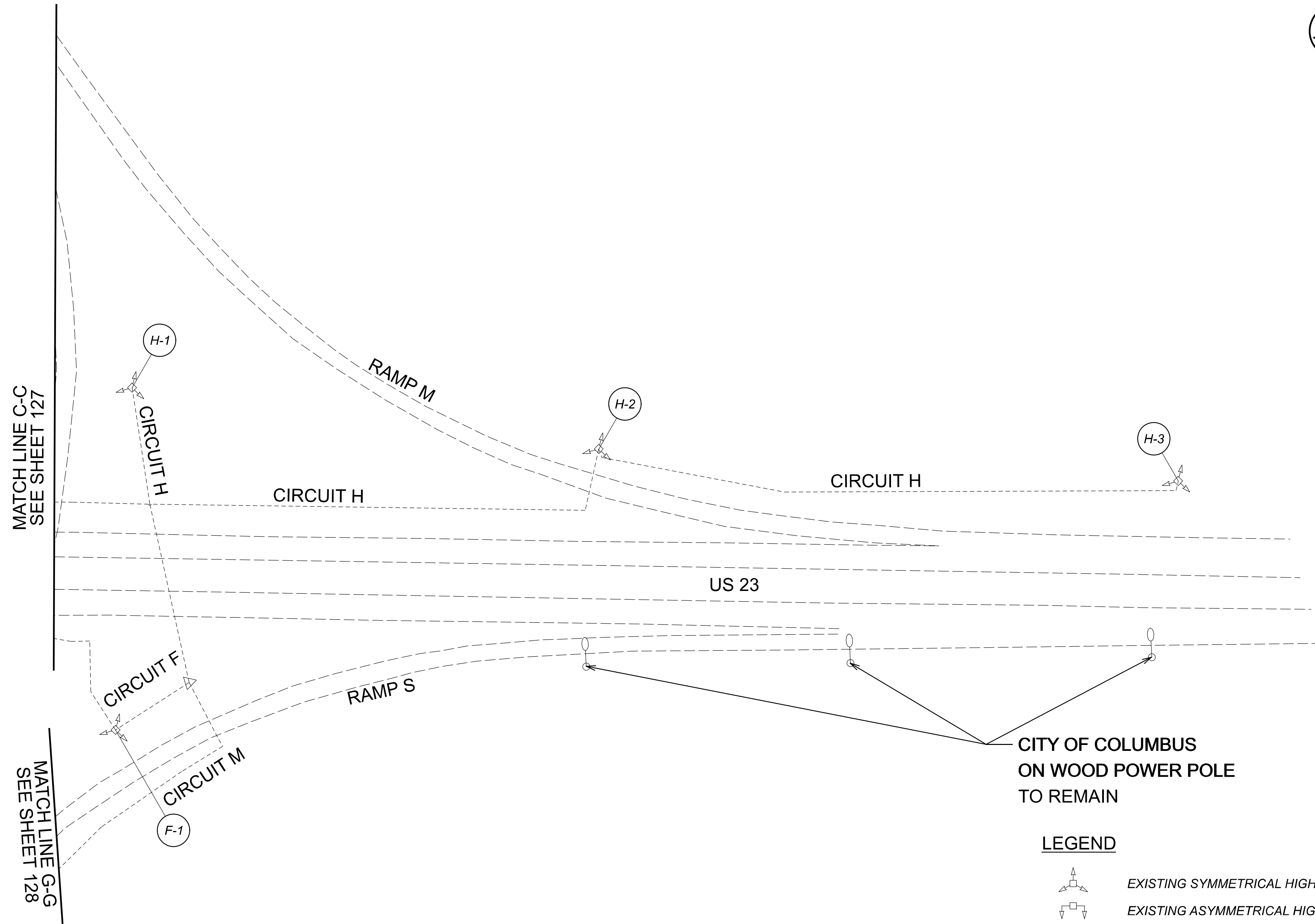
Lighting Plan - Location D06-46  
I-270 and US-23

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231






DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	TOTAL
129	197

D06 Lighting Upgrade FY2021

MODEL: 112676\_LP008 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:45:51 AM USER: Daddison  
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-46  
I-270 and US-23

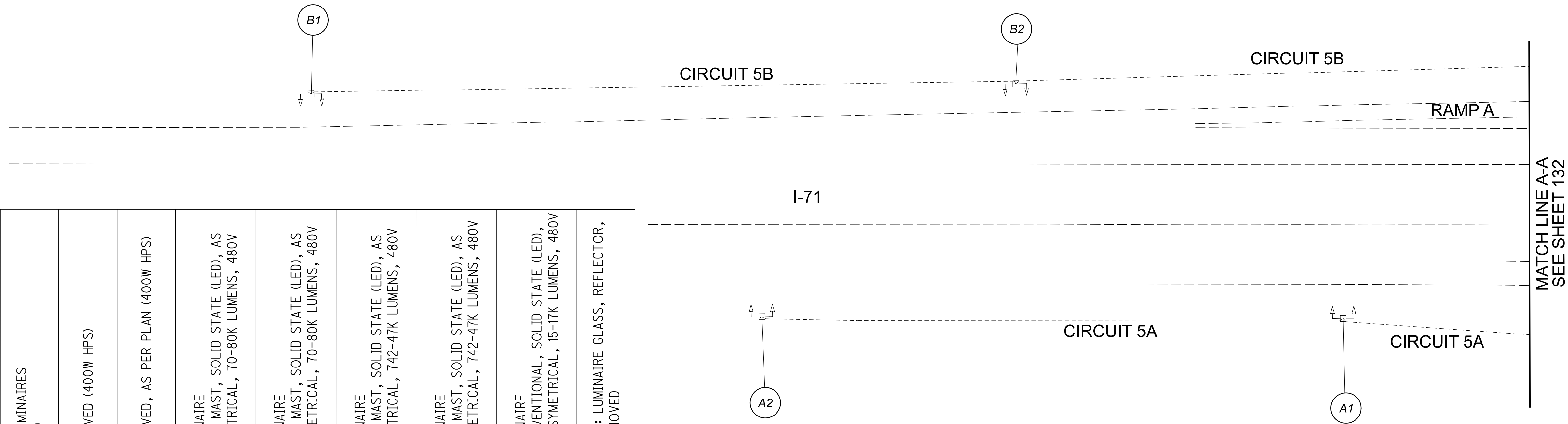
DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43221

DESIGNER	DA
REVIEWER	RJM 03/11/22
PROJECT ID	112676
SHEET	TOTAL
130	197

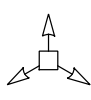




D06 Lighting Upgrade FY2021

MODEL: 112676\_LP009 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:46:08 AM USER: Daddison  
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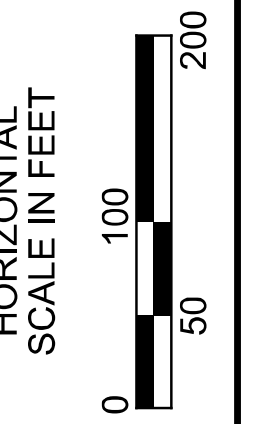
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	4	2	-	-	2	-	-	-	2
A2	4	2	-	-	2	-	-	-	2
A3	4	2	-	-	2	-	-	-	2
A4	6	3	3	3	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-
A6	4	2	-	-	2	-	-	-	2
A7	4	2	-	-	2	-	-	-	2
A8	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	4	2	-	-	2	-	-	-	2
B3	4	2	-	-	2	-	-	-	2
B4	6	3	3	3	-	-	-	-	-
B5	6	3	3	3	-	-	-	-	-
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

Lighting Plan - Location D06-47  
I-71 and US-36

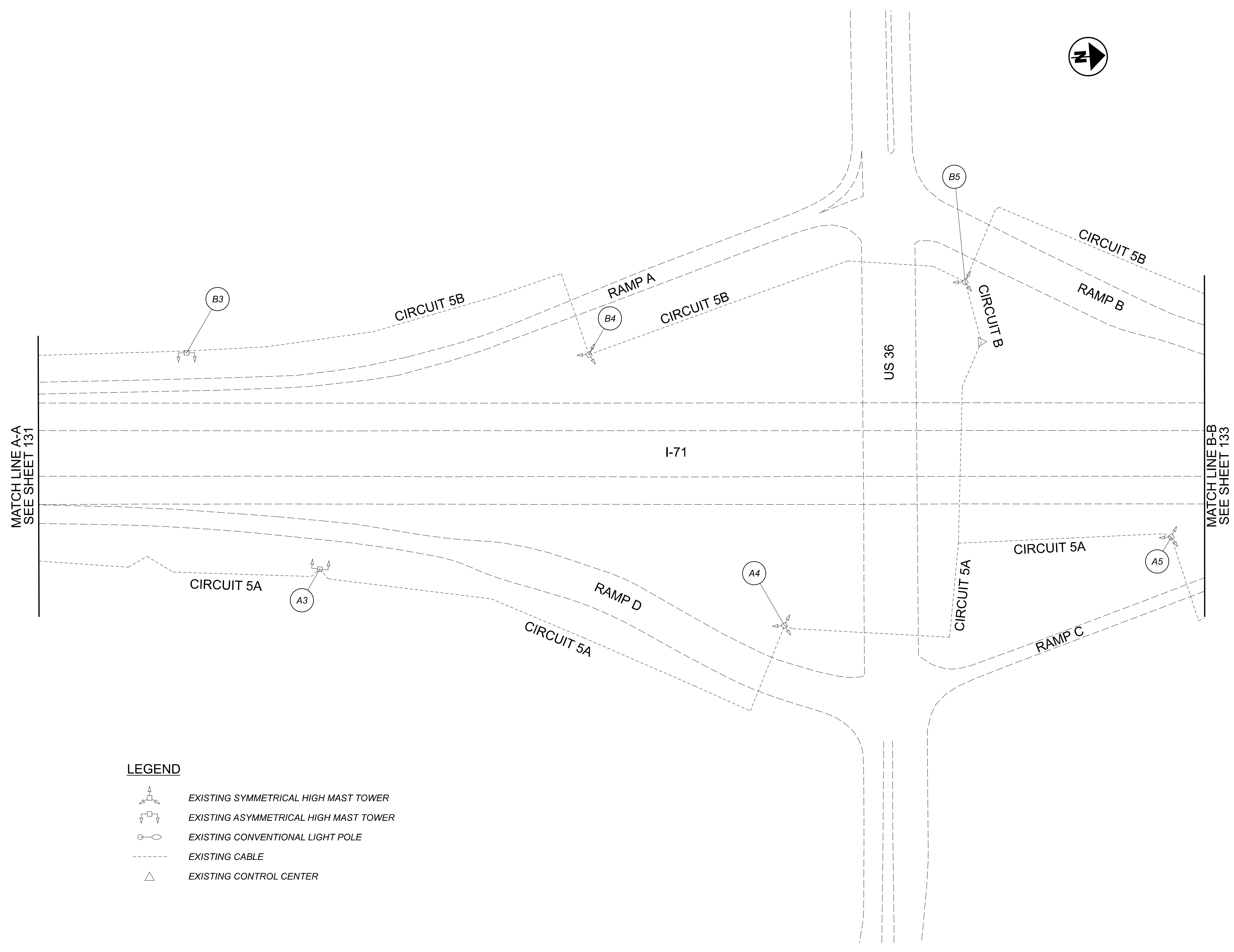


DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231






DESIGNER  
DA  
 REVIEWER  
RJM 03/11/22  
 PROJECT ID  
112676  
 SHEET TOTAL  
131 197

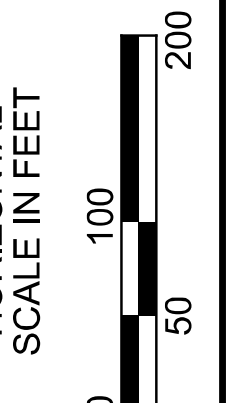
D06 Lighting Upgrade FY2021

MODEL: 112676\_LF010 PAPER: 34x22 (in.) DATE: 3/11/2022 TIME: 9:46:24 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\_Statewide\112676\_402-Engineering\_JMT\Lighting\_Sheets\112676\_LP010.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-47  
 I-71 and US-36

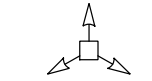
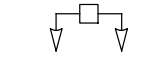



DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

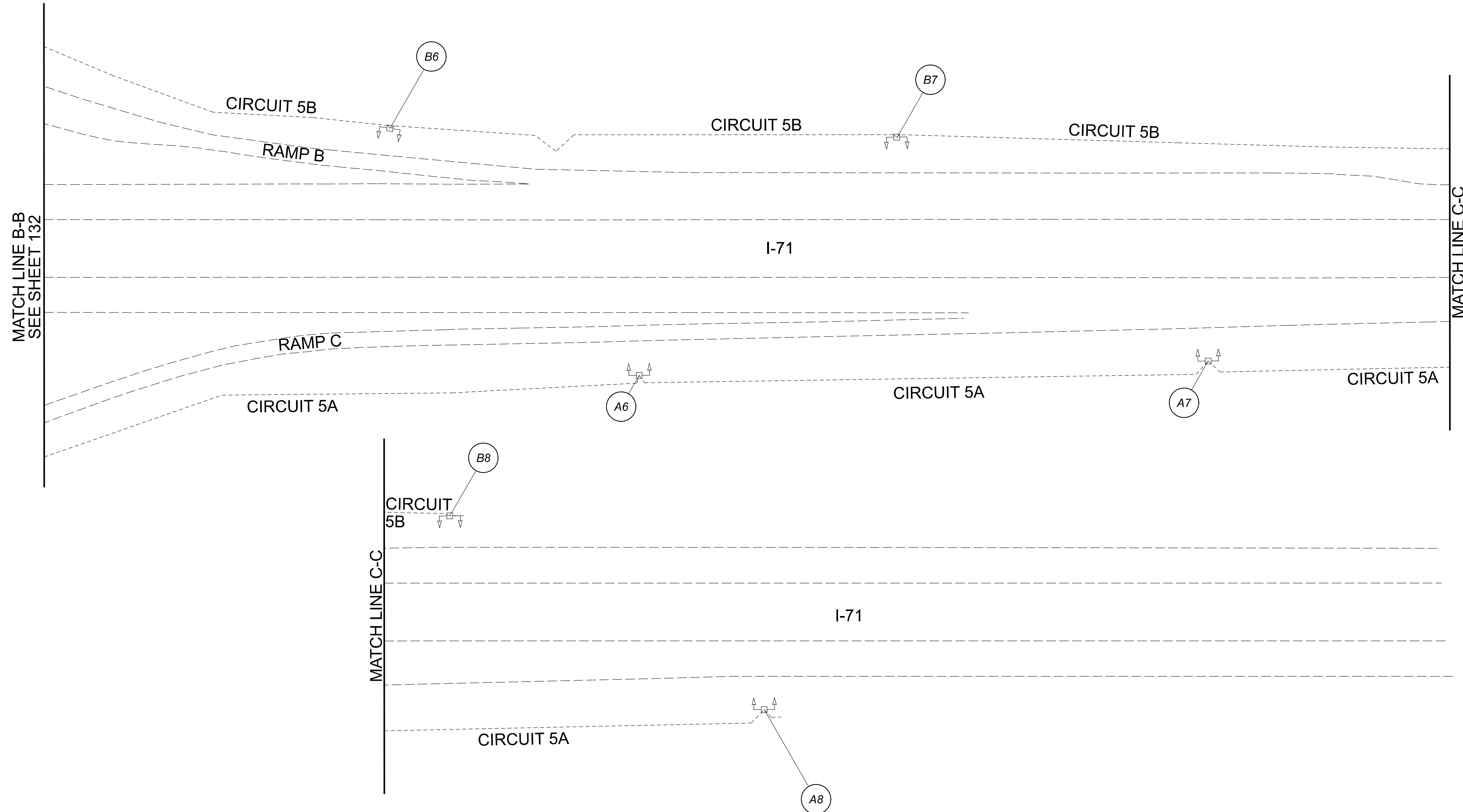
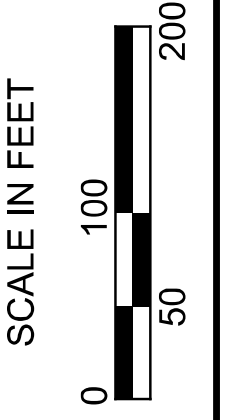
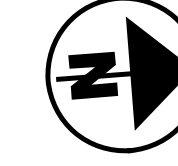
DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	TOTAL
132	197

D06 Lighting Upgrade FY2021

MODEL: 112676\_LF011.PAPER.SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:46:41AM USER: DAddison  
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-47  
 I-71 and US-36

DESIGN AGENCY



DESIGNER

DA

REVIEWER

RJM 03/11/22

PROJECT ID

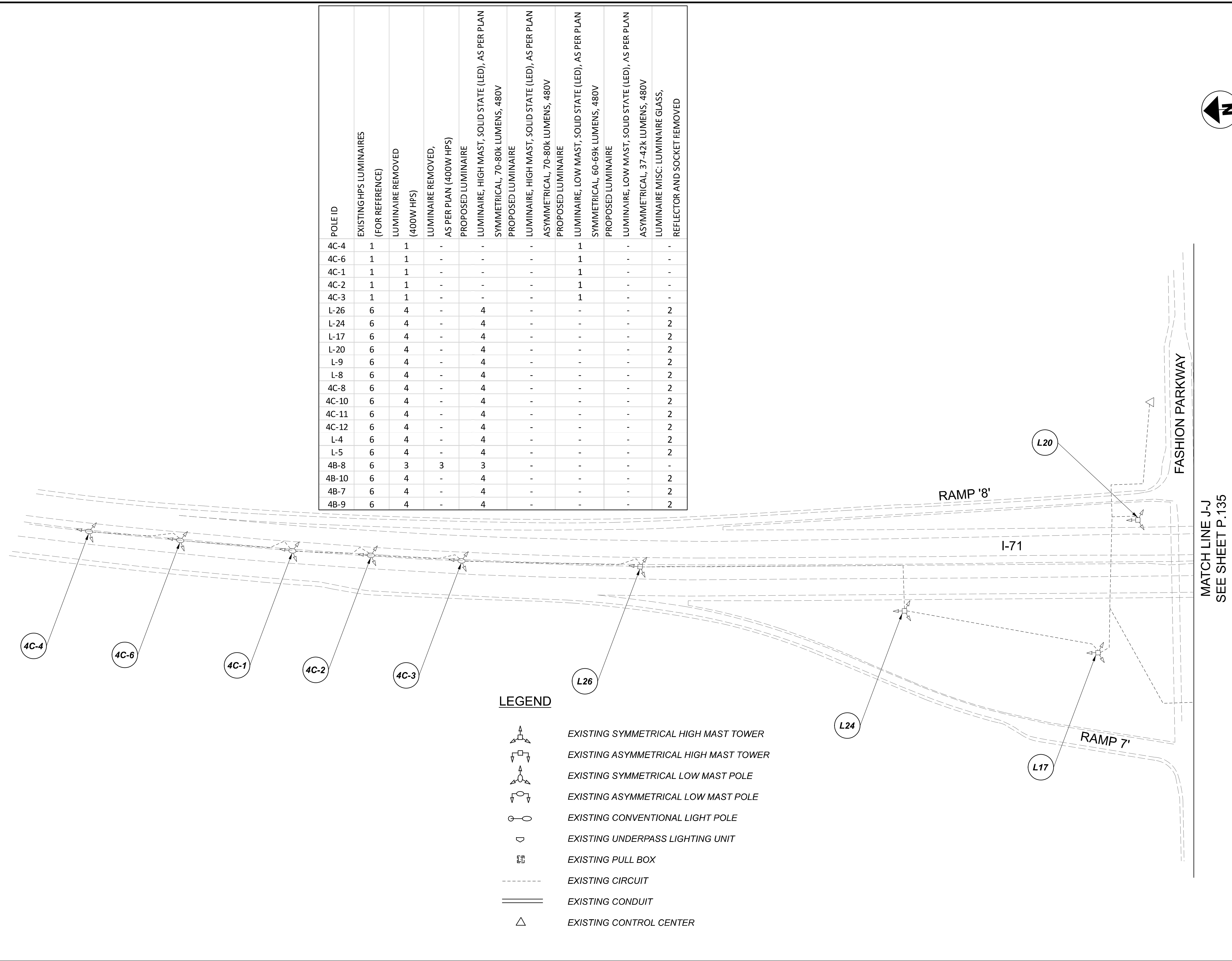
112676

SHEET TOTAL

133 197

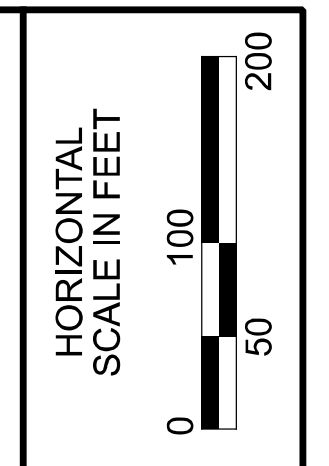
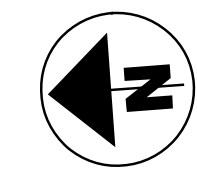
D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 1:32:59 PM USER: vnlunez  
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
4C-4	1	1	-	-	-	-	-	1	-	-	-	-
4C-6	1	1	-	-	-	-	-	1	-	-	-	-
4C-1	1	1	-	-	-	-	-	1	-	-	-	-
4C-2	1	1	-	-	-	-	-	1	-	-	-	-
4C-3	1	1	-	-	-	-	-	1	-	-	-	-
L-26	6	4	-	4	-	-	-	-	-	-	-	2
L-24	6	4	-	4	-	-	-	-	-	-	-	2
L-17	6	4	-	4	-	-	-	-	-	-	-	2
L-20	6	4	-	4	-	-	-	-	-	-	-	2
L-9	6	4	-	4	-	-	-	-	-	-	-	2
L-8	6	4	-	4	-	-	-	-	-	-	-	2
4C-8	6	4	-	4	-	-	-	-	-	-	-	2
4C-10	6	4	-	4	-	-	-	-	-	-	-	2
4C-11	6	4	-	4	-	-	-	-	-	-	-	2
4C-12	6	4	-	4	-	-	-	-	-	-	-	2
L-4	6	4	-	4	-	-	-	-	-	-	-	2
L-5	6	4	-	4	-	-	-	-	-	-	-	2
4B-8	6	3	3	3	-	-	-	-	-	-	-	-
4B-10	6	4	-	4	-	-	-	-	-	-	-	2
4B-7	6	4	-	4	-	-	-	-	-	-	-	2
4B-9	6	4	-	4	-	-	-	-	-	-	-	2

- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
  - EXISTING ASYMMETRICAL HIGH MAST TOWER
  - EXISTING SYMMETRICAL LOW MAST POLE
  - EXISTING ASYMMETRICAL LOW MAST POLE
  - EXISTING CONVENTIONAL LIGHT POLE
  - EXISTING UNDERPASS LIGHTING UNIT
  - EXISTING PULL BOX
  - EXISTING CIRCUIT
  - EXISTING CONDUIT
  - EXISTING CONTROL CENTER



Lighting Plan - Location 48  
I-70 and Gemini Place

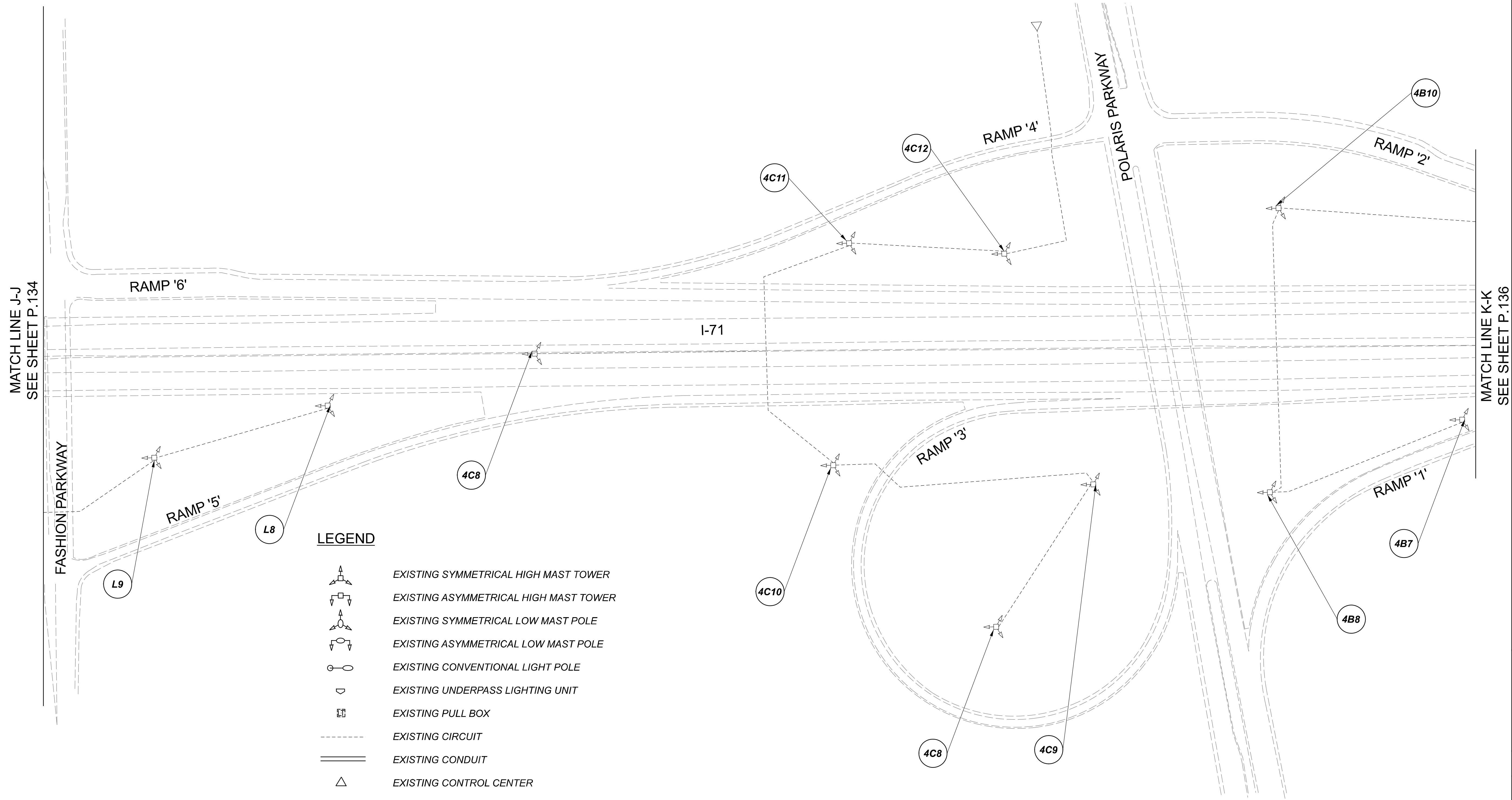
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.134	197

MATCH LINE J-J  
SEE SHEET P.135

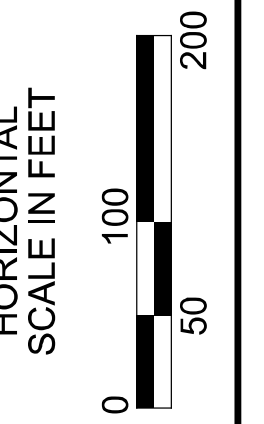
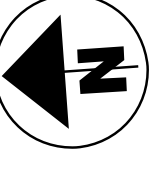


D06-Lighting Upgrade FY2021

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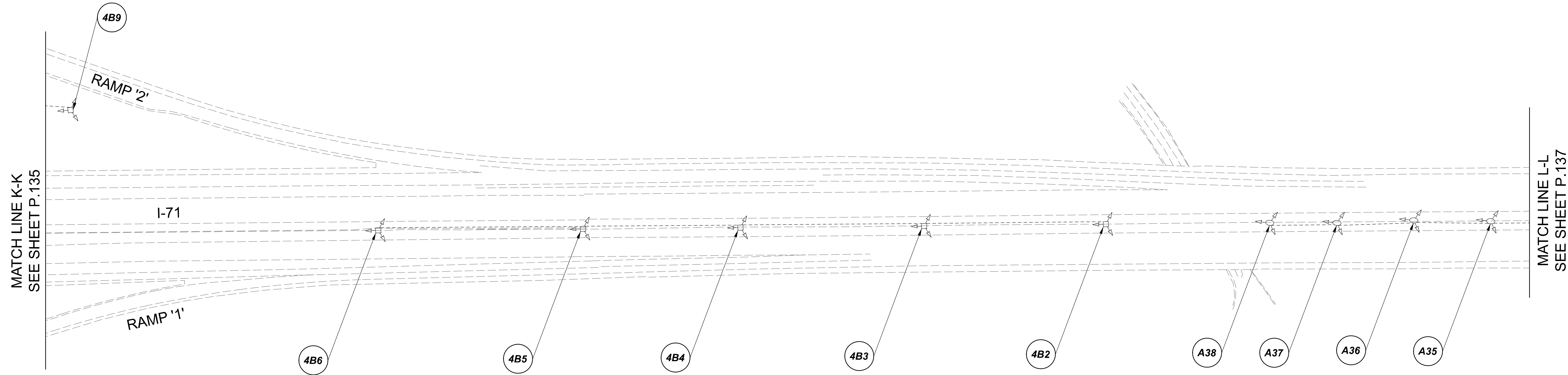


NOTE:  
SEE SHEET P.134 FOR LUMINAIRE SCHEDULE

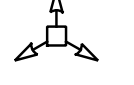
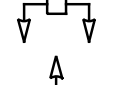
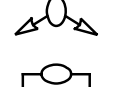
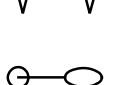


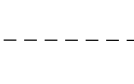
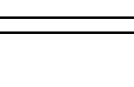




Lighting Plan - Location 48  
I-70 and Polaris Parkway

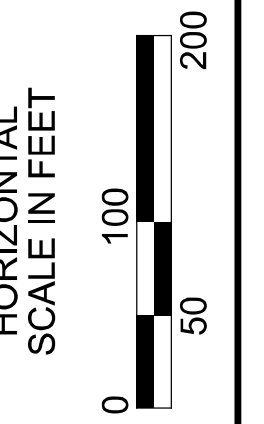
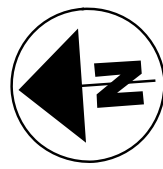
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	3
SHEET	TOTAL
P.135	197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.137 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 48  
I-70 and Polaris Parkway

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
3	3

SHEET	TOTAL
P.136	197











D06-Lighting Upgrade FY2021

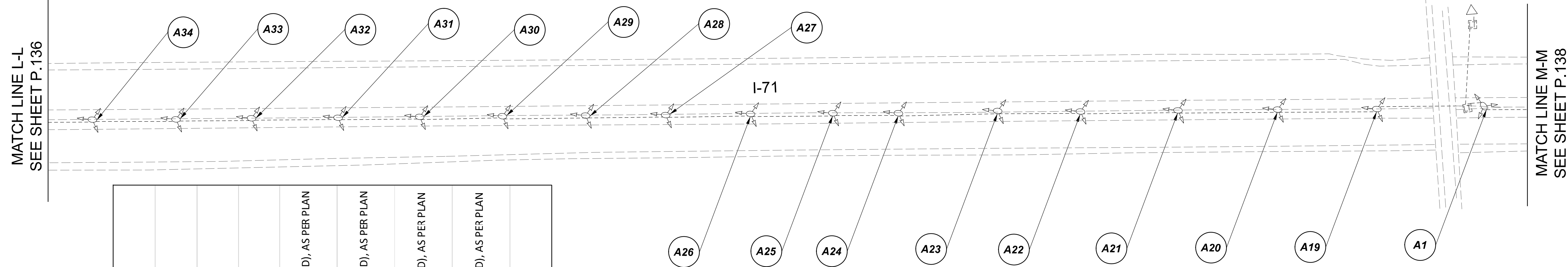
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
4B-6	6	4	-	4	-	-	-	-	-	-	2	-
4B-5	4	2	-	2	-	-	-	-	-	-	2	-
4B-4	4	2	-	2	-	-	-	-	-	-	2	-
4B-3	4	2	-	2	-	-	-	-	-	-	2	-
4B-2	4	2	-	2	-	-	-	-	-	-	2	-
A-1	1	1	-	-	-	-	1	-	-	-	-	-
A-2	1	1	-	-	-	-	1	-	-	-	-	-
A-3	1	1	-	-	-	-	1	-	-	-	-	-
A-4	1	1	-	-	-	-	1	-	-	-	-	-
A-5	1	1	-	-	-	-	1	-	-	-	-	-
A-6	1	1	-	-	-	-	1	-	-	-	-	-
A-7	1	1	-	-	-	-	1	-	-	-	-	-
A-8	1	1	-	-	-	-	1	-	-	-	-	-
A-9	1	1	-	-	-	-	1	-	-	-	-	-
A-10	1	1	-	-	-	-	1	-	-	-	-	-

A-11	1	1	-	-	-	1	-	-
A-12	1	1	-	-	-	1	-	-
A-13	1	1	-	-	-	1	-	-
A-14	1	1	-	-	-	1	-	-
A-15	1	1	-	-	-	1	-	-
A-16	1	1	-	-	-	1	-	-
A-17	1	1	-	-	-	1	-	-
A-18	1	1	-	-	-	1	-	-
A-19	1	1	-	-	-	1	-	-
A-20	1	1	-	-	-	1	-	-
A-21	1	1	-	-	-	1	-	-
A-22	1	1	-	-	-	1	-	-
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A-34	1	1	-	-	-	1	-	-
A-35	1	1	-	-	-	1	-	-
A-36	1	1	-	-	-	1	-	-
A-37	1	1	-	-	-	1	-	-
A-38	1	1	-	-	-	1	-	-

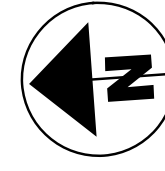
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE L-L  
SEE SHEET P.136

MATCH LINE M-M  
SEE SHEET P.138



Lighting Plan - Location 48a  
I-71 - I-270 to Polaris Parkway

DESIGN AGENCY



DESIGNER  
VN


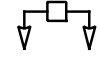
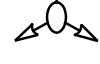
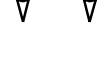


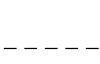
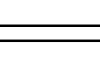


REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
1	2

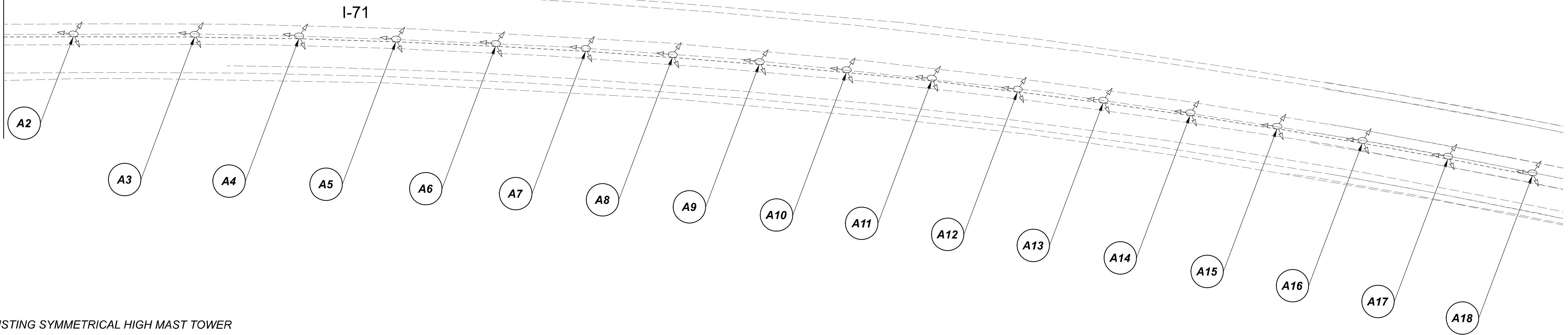
SHEET	TOTAL
P.137	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.137 FOR LUMINAIRE SCHEDULE

MATCH LINE M-M  
SEE SHEET P.137



Lighting Plan - Location 48a  
I-71 - I-270 to Polaris Parkway

DESIGN AGENCY



DESIGNER  
VN


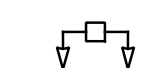

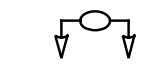
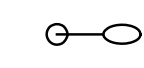
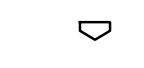

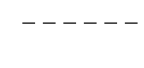
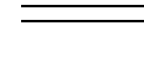
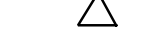
REVIEWER  
SG 03/11/22

PROJECT ID  
112676

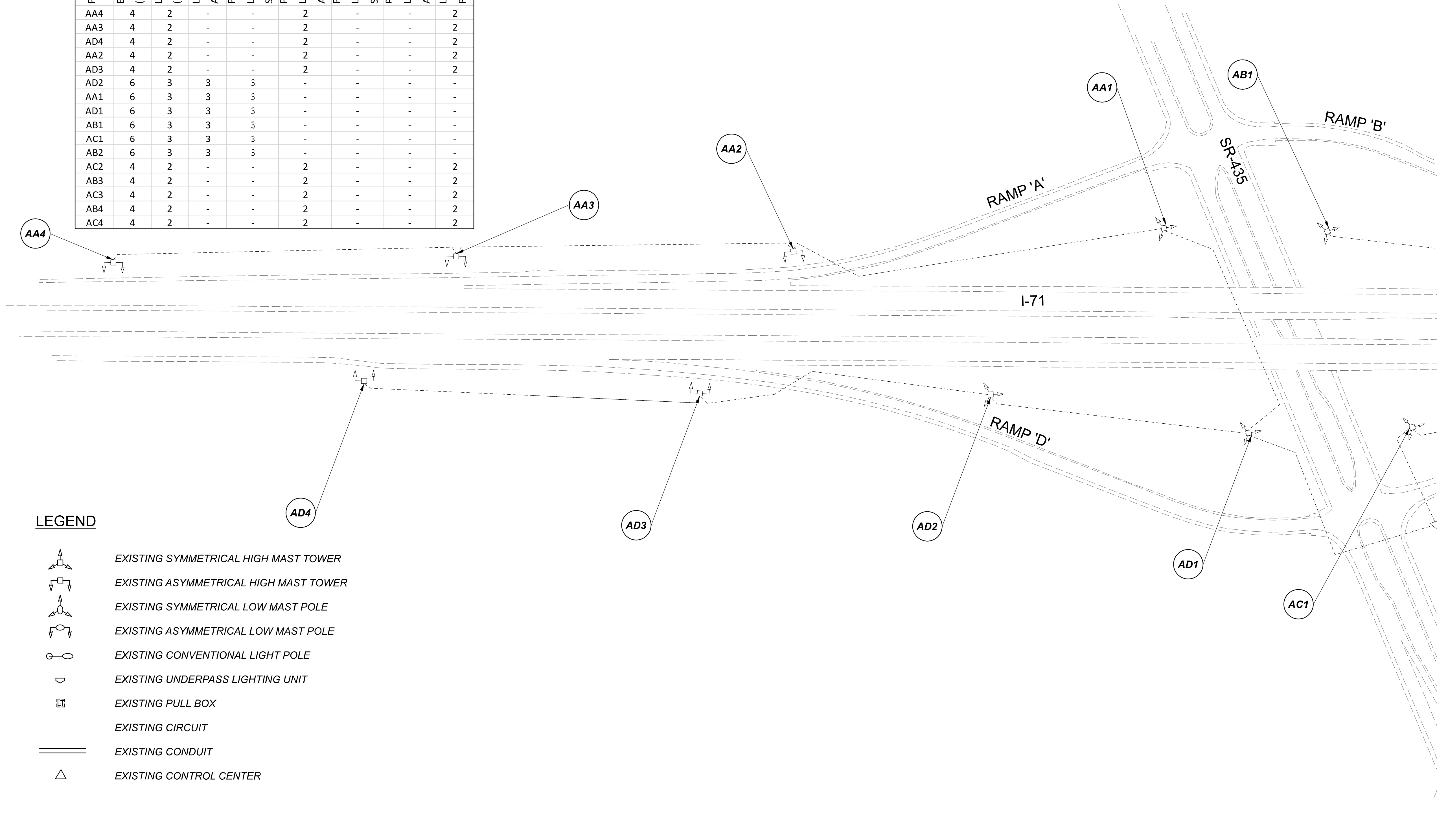
SUBSET	TOTAL
2	2

SHEET	TOTAL
P.138	197

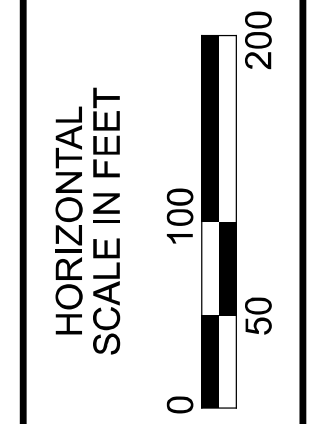
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA4	4	2	-	-	-	-	-	-	-	-	-	2
AA3	4	2	-	-	-	-	-	-	-	-	-	2
AD4	4	2	-	-	-	-	-	-	-	-	-	2
AA2	4	2	-	-	-	-	-	-	-	-	-	2
AD3	4	2	-	-	-	-	-	-	-	-	-	2
AD2	6	3	3	3	3	-	-	-	-	-	-	-
AA1	6	3	3	3	3	-	-	-	-	-	-	-
AD1	6	3	3	3	3	-	-	-	-	-	-	-
AB1	6	3	3	3	3	-	-	-	-	-	-	-
AC1	6	3	3	3	3	-	-	-	-	-	-	-
AB2	6	3	3	3	3	-	-	-	-	-	-	-
AC2	4	2	-	-	-	-	-	-	-	-	-	2
AB3	4	2	-	-	-	-	-	-	-	-	-	2
AC3	4	2	-	-	-	-	-	-	-	-	-	2
AB4	4	2	-	-	-	-	-	-	-	-	-	2
AC4	4	2	-	-	-	-	-	-	-	-	-	2



MATCH LINE N-N  
SEE SHEET P.140



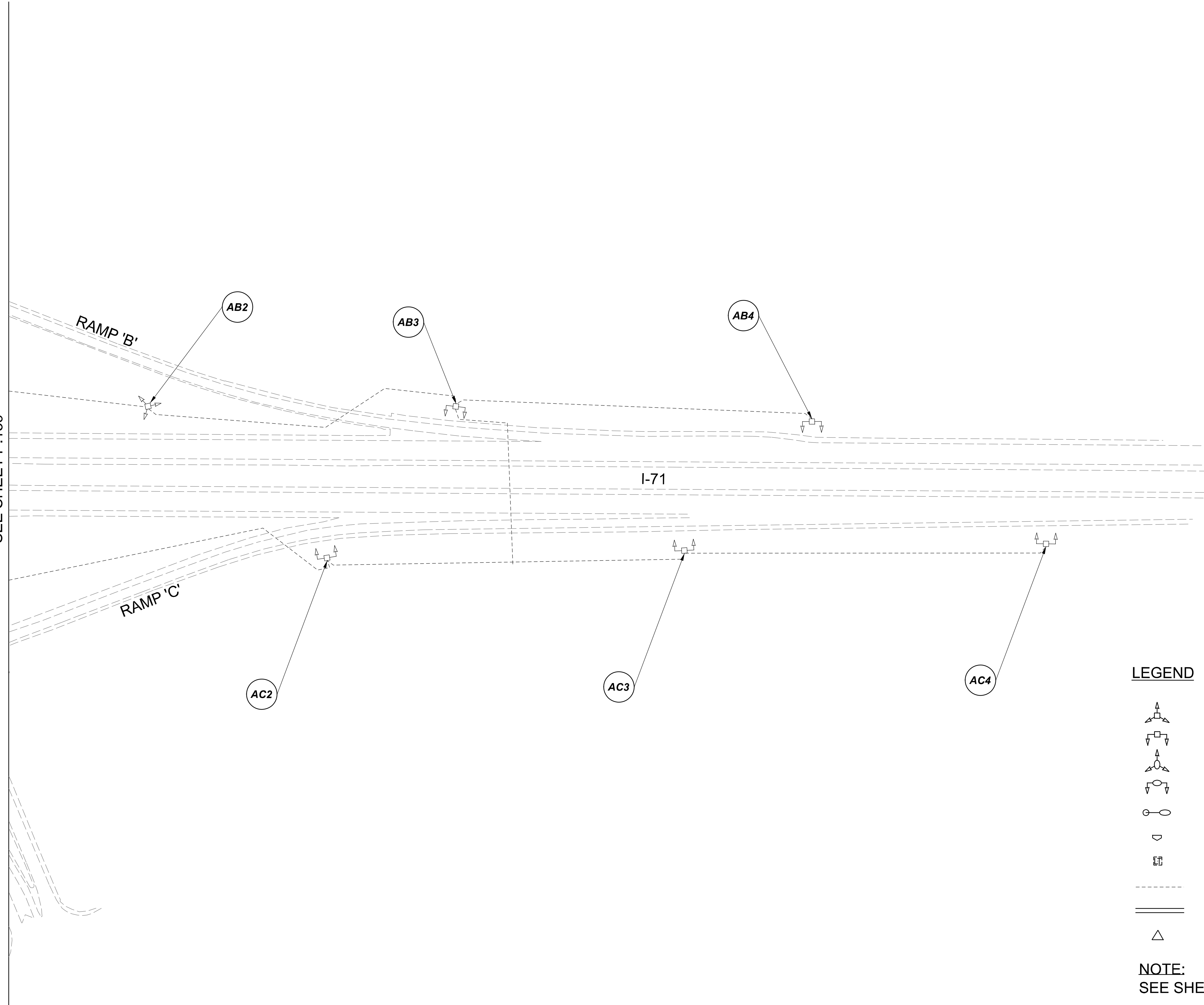
Lighting Plan - Location 49  
I-71 and S.R. 435

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.139	
TOTAL	
197	

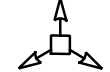
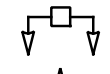
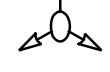
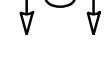
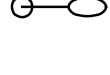



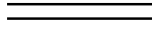

D06-Lighting Upgrade FY2021

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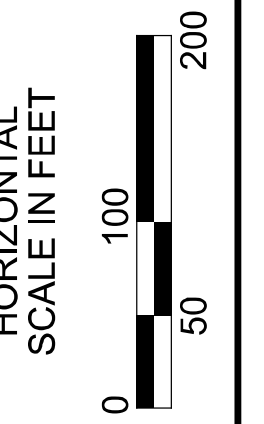
MATCH LINE N-N  
 SEE SHEET P.139



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.139 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 49  
 I-71 and S.R. 435

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676











SUBSET	TOTAL
2	2

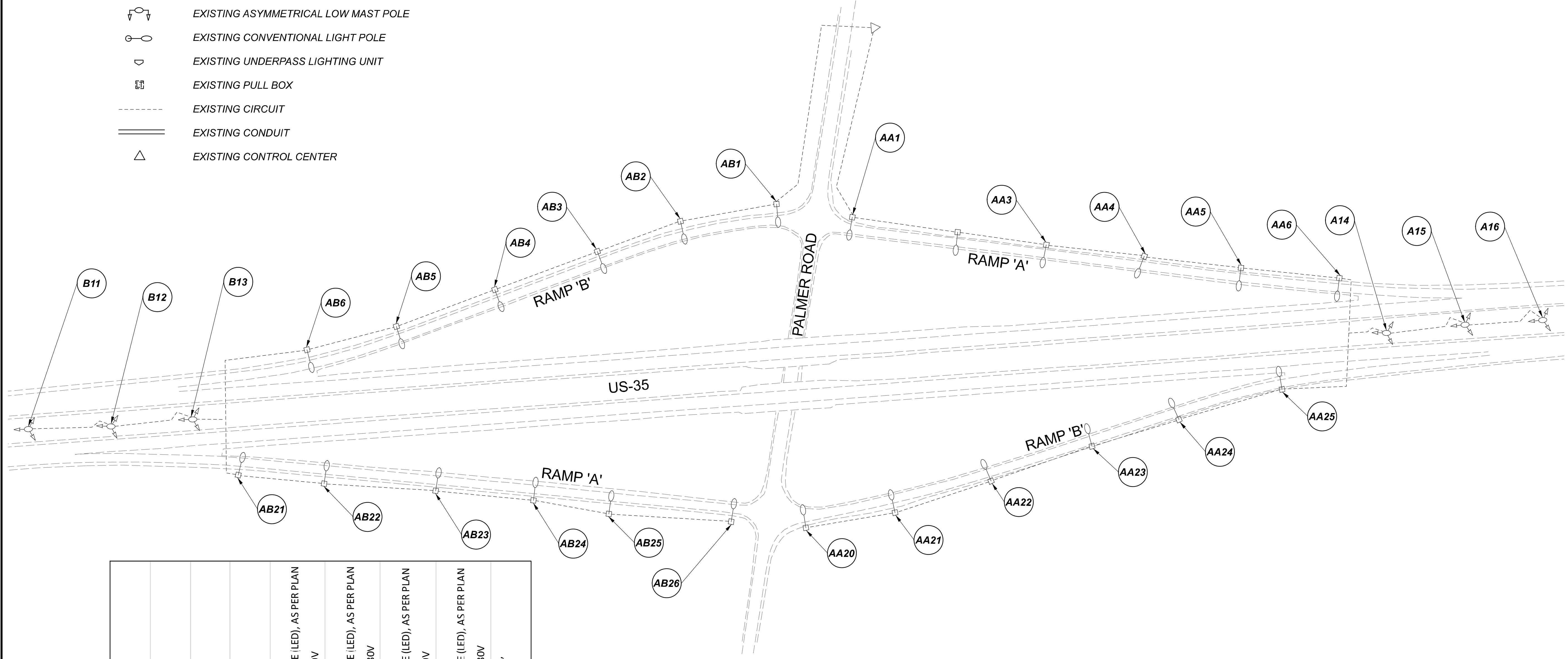
SHEET	TOTAL
P.140	197

D06-Lighting Upgrade FY2021

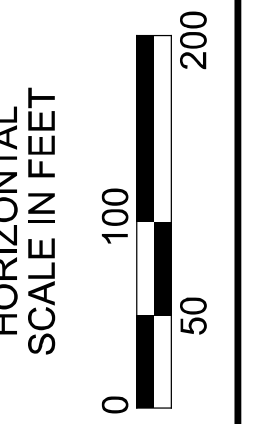
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B11	1	1	-	-	-	-	-	-	1	-	-	-
B12	1	1	-	-	-	-	-	-	1	-	-	-
B13	1	1	-	-	-	-	-	-	1	-	-	-
A14	1	1	-	-	-	-	-	-	1	-	-	-
A15	1	1	-	-	-	-	-	-	1	-	-	-
A16	1	1	-	-	-	-	-	-	1	-	-	-

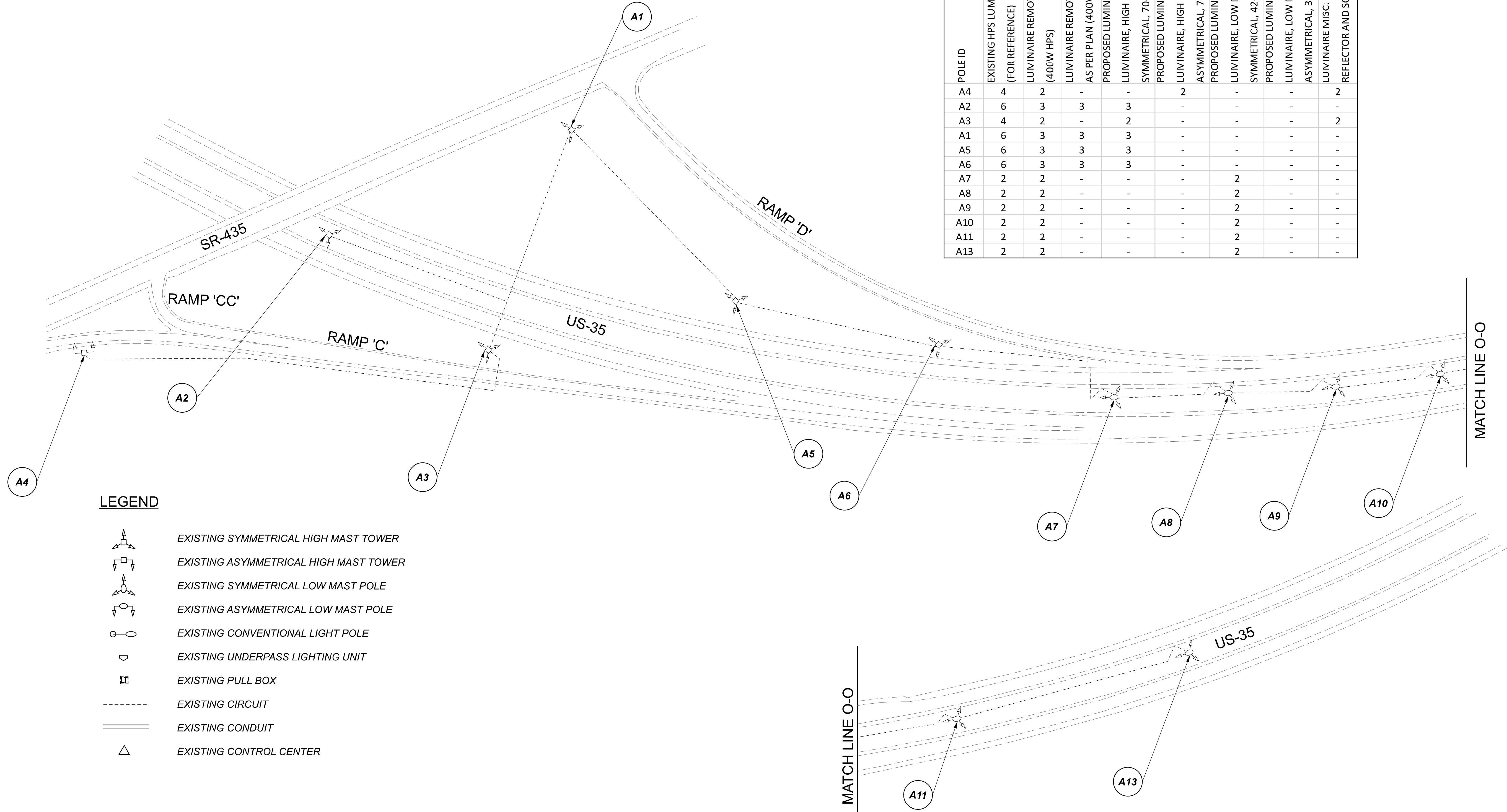


Lighting Plan - Location 50  
 S.R. 35 and Palmer Road

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P. 141	197

D06-Lighting Upgrade FY2021

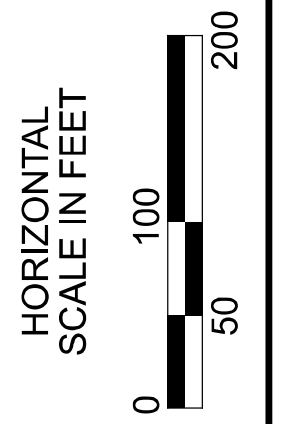
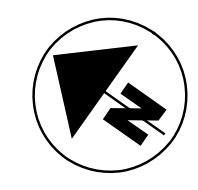
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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A4	4	2	-	-	-	2	-	-	-	-	-	2
A2	6	3	3	3	-	-	-	-	-	-	-	-
A3	4	2	-	2	-	-	-	-	-	-	-	2
A1	6	3	3	3	-	-	-	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-	-	-	-
A6	6	3	3	3	-	-	-	-	-	-	-	-
A7	2	2	-	-	-	-	-	2	-	-	-	-
A8	2	2	-	-	-	-	-	2	-	-	-	-
A9	2	2	-	-	-	-	-	2	-	-	-	-
A10	2	2	-	-	-	-	-	2	-	-	-	-
A11	2	2	-	-	-	-	-	2	-	-	-	-
A13	2	2	-	-	-	-	-	2	-	-	-	-



Lighting Plan - Location 51  
 US-35 and S.R. 435 East

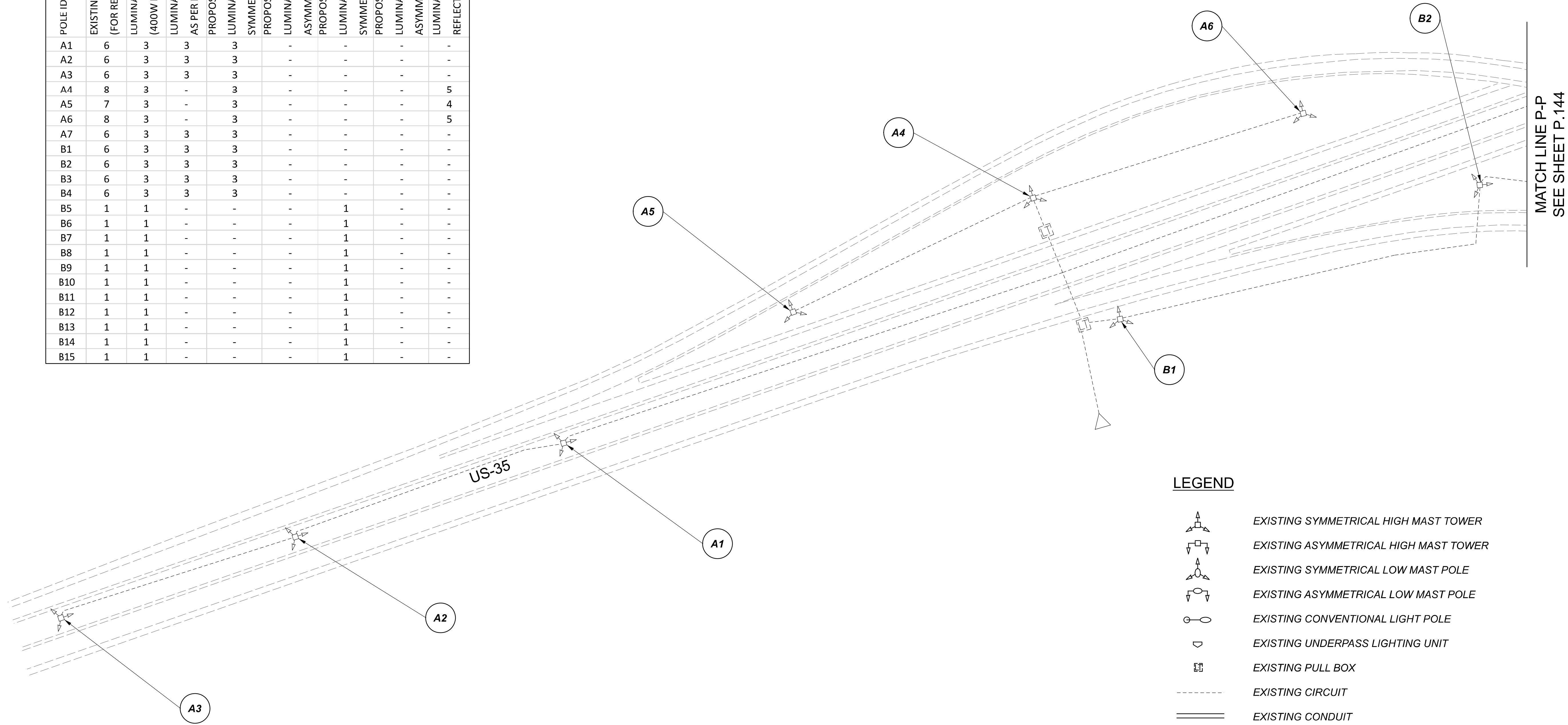
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.142	197













D06-Lighting Upgrade FY2021

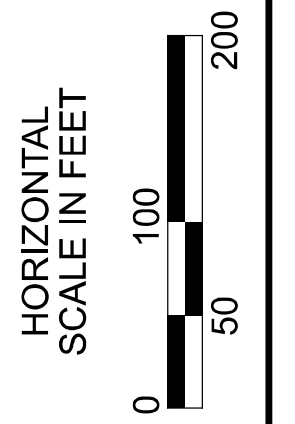
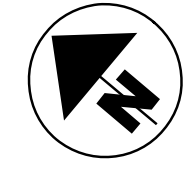
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 48CV	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 48CV	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	6	3	3	3								
A2	6	3	3	3								
A3	6	3	3	3								
A4	8	3	3	3								5
A5	7	3	-	3								4
A6	8	3	-	3								5
A7	6	3	3	3								
B1	6	3	3	3								
B2	6	3	3	3								
B3	6	3	3	3								
B4	6	3	3	3								
B5	1	1	-	-					1			
B6	1	1	-	-					1			
B7	1	1	-	-					1			
B8	1	1	-	-					1			
B9	1	1	-	-					1			
B10	1	1	-	-					1			
B11	1	1	-	-					1			
B12	1	1	-	-					1			
B13	1	1	-	-					1			
B14	1	1	-	-					1			
B15	1	1	-	-					1			



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

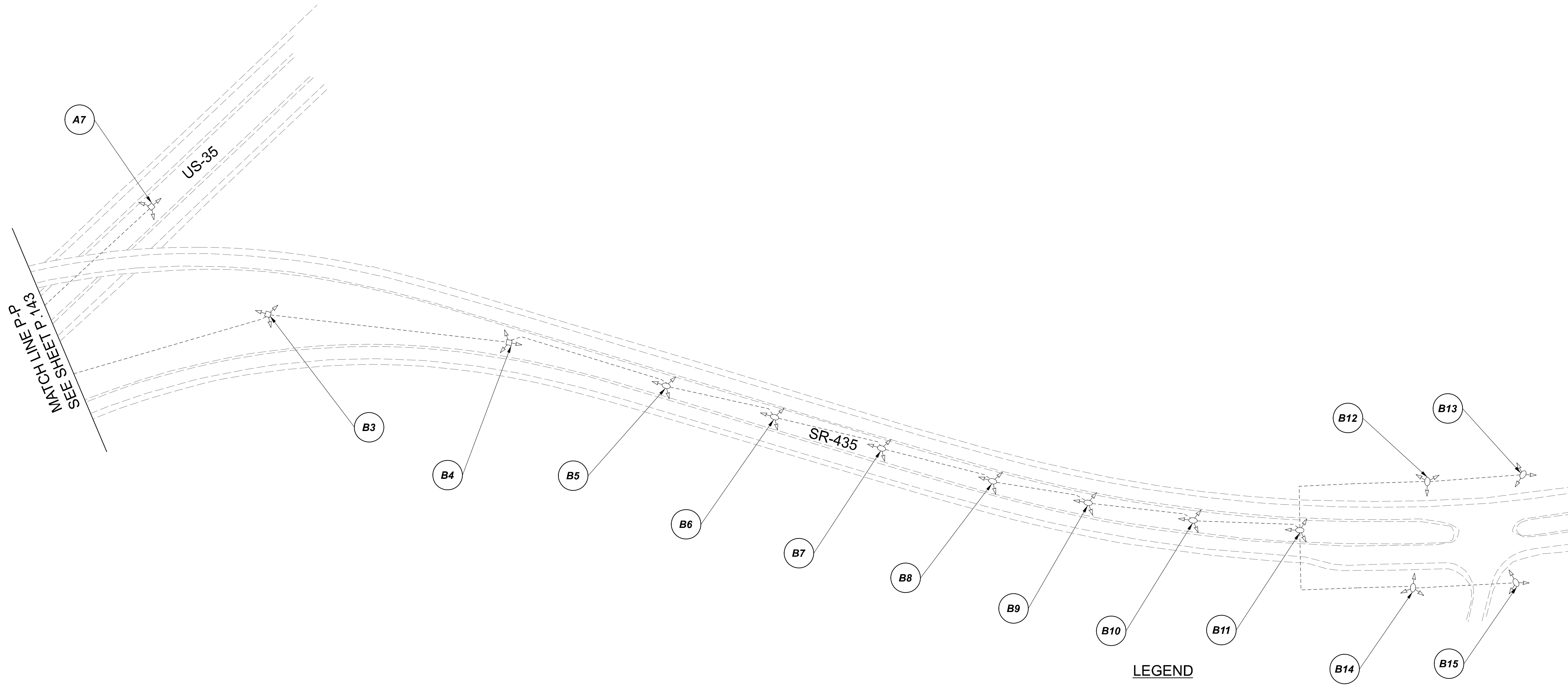


Lighting Plan - Location 53  
 US-35 and S.R. 435 West

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.143	197

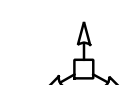
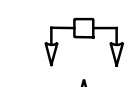
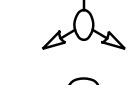



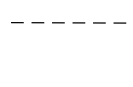
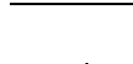
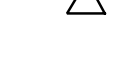

D06-Lighting Upgrade FY2021

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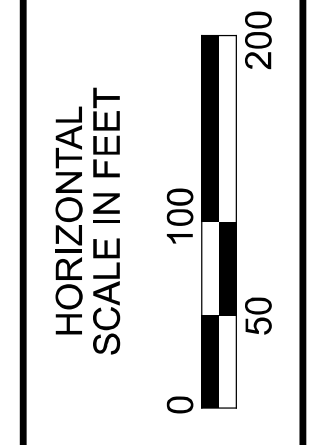
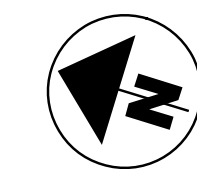


SEE SHEET P.143  
 MATCH LINE P.143

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.143 FOR LUMINAIRE SCHEDULE




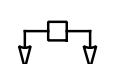

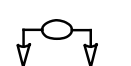
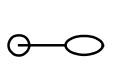



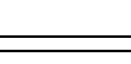

Lighting Plan - Location 53  
 US-35 and S.R. 435 West

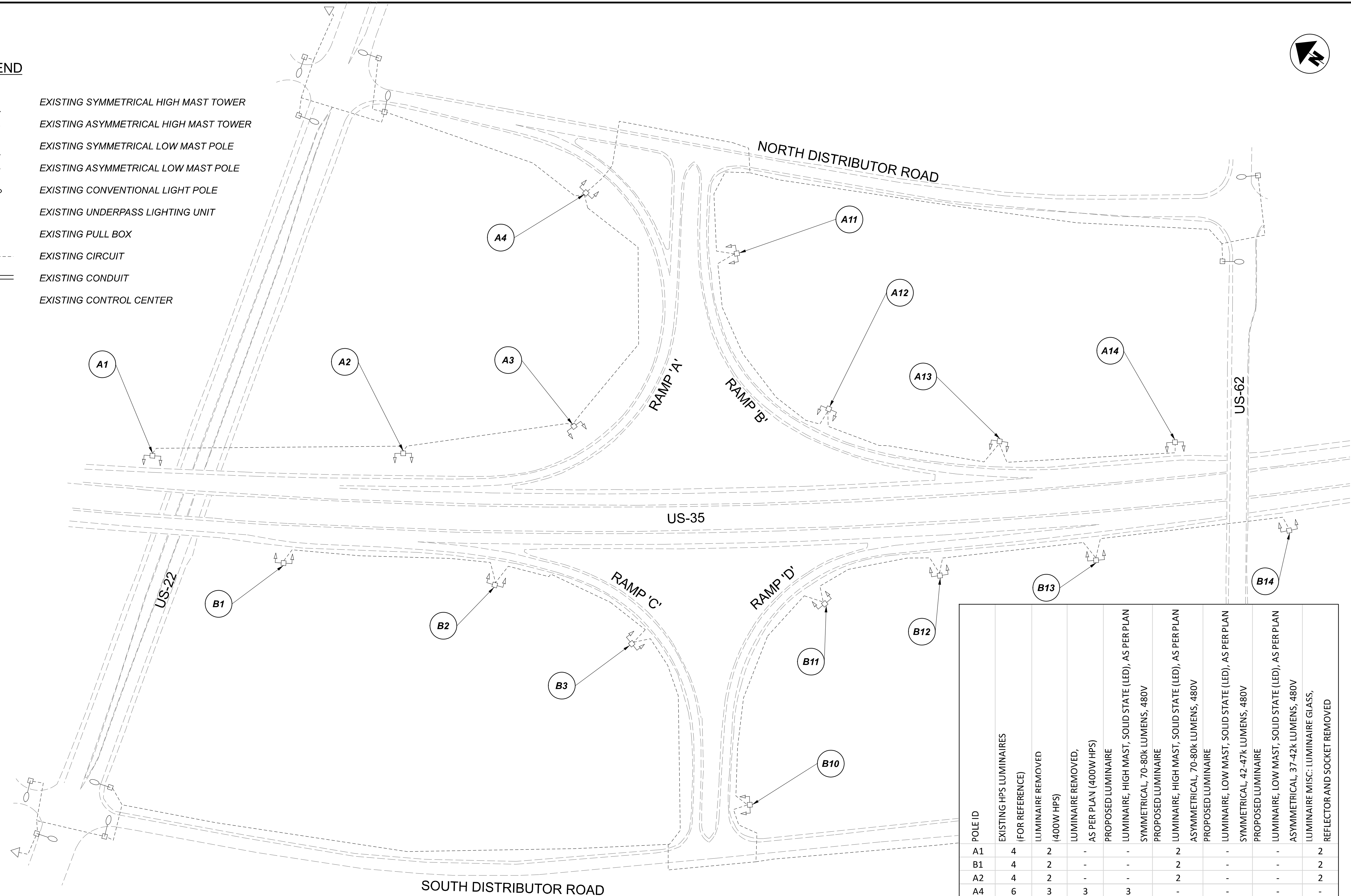
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.144	197

D06-Lighting Upgrade FY2021

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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



B12	4	2	-	-	2	-	-	2
A14	4	2	-	-	2	-	-	2
B13	4	2	-	-	2	-	-	2
B14	4	2	-	-	2	-	-	2

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	4	2	-	-	-	2	-	-	-	-	-	2
B1	4	2	-	-	-	2	-	-	-	-	-	2
A2	4	2	-	-	-	2	-	-	-	-	-	2
A4	6	3	3	3	-	-	-	-	-	-	-	-
A3	4	2	-	2	-	-	-	-	-	-	-	2
B2	4	2	-	-	-	2	-	-	-	-	-	2
B3	4	4	-	2	-	-	-	-	-	-	-	2
A11	6	3	3	3	-	-	-	-	-	-	-	-
A12	4	2	-	2	-	-	-	-	-	-	-	2
A13	4	2	-	-	-	2	-	-	-	-	-	2
B10	6	3	3	3	-	-	-	-	-	-	-	-
B11	4	2	-	2	-	-	-	-	-	-	-	2



Lighting Plan - Location 54  
US-35 and US-62

DESIGN AGENCY  
**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

SUBSET	TOTAL
1	1

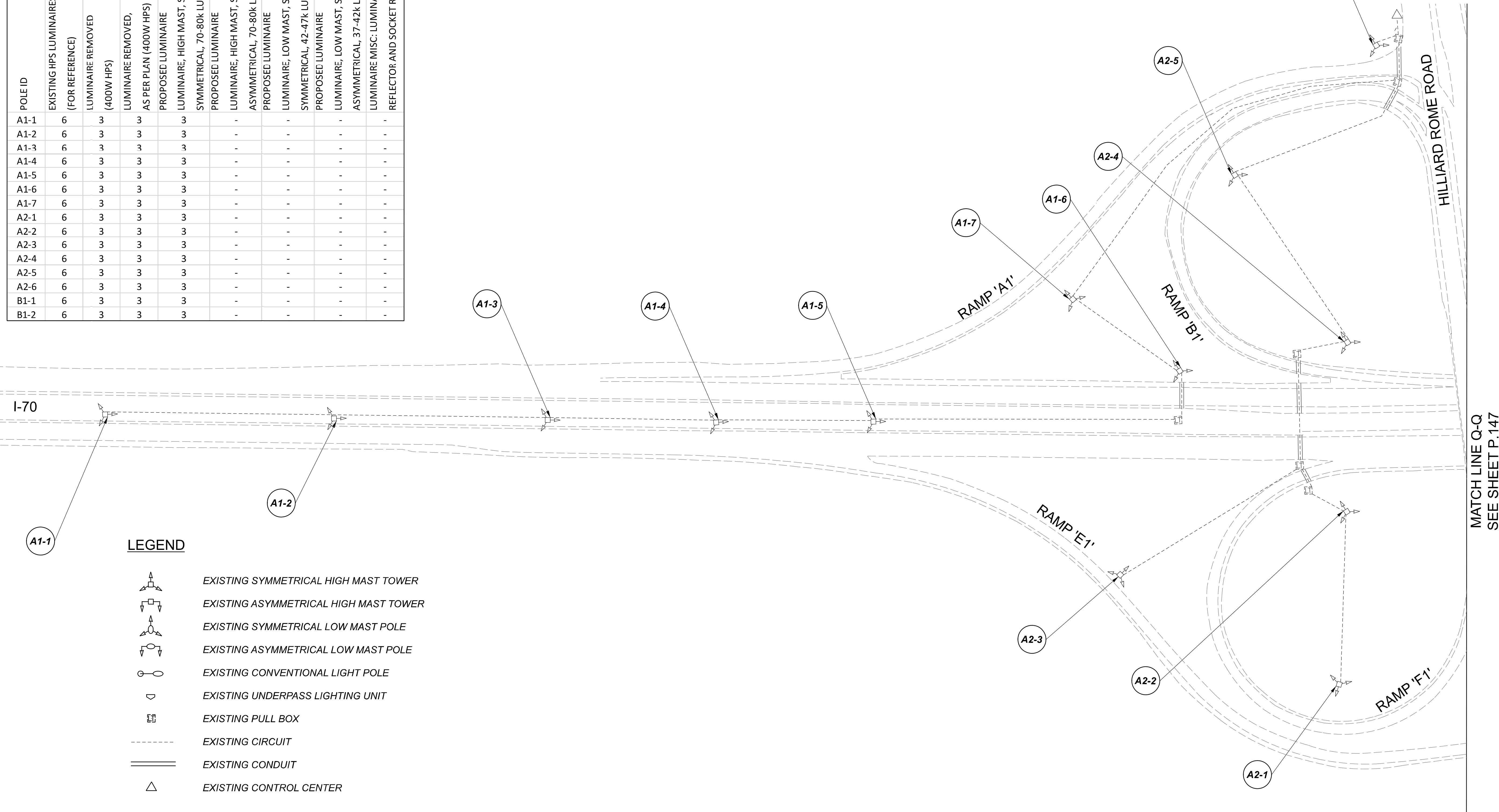
SHEET	TOTAL
P.145	197

D06-Lighting Upgrade FY2021

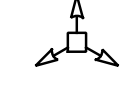
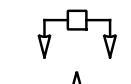
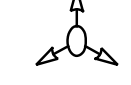
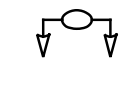
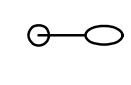



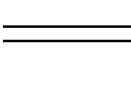

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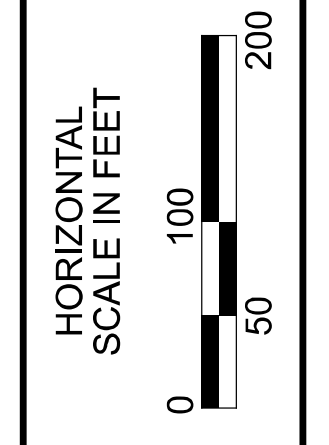
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1-1	6	3	3	3	3											
A1-2	6	3	3	3	3											
A1-3	6	3	3	3	3											
A1-4	6	3	3	3	3											
A1-5	6	3	3	3	3											
A1-6	6	3	3	3	3											
A1-7	6	3	3	3	3											
A2-1	6	3	3	3	3											
A2-2	6	3	3	3	3											
A2-3	6	3	3	3	3											
A2-4	6	3	3	3	3											
A2-5	6	3	3	3	3											
A2-6	6	3	3	3	3											
B1-1	6	3	3	3	3											
B1-2	6	3	3	3	3											

B1-3	6	3	3	3	-	-	-	-	-
B1-4	6	3	3	3	-	-	-	-	-
B3-1	6	3	3	3	-	-	-	-	-
B3-2	6	3	3	3	-	-	-	-	-
B3-3	6	3	3	3	-	-	-	-	-
B3-4	6	3	3	3	-	-	-	-	-



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

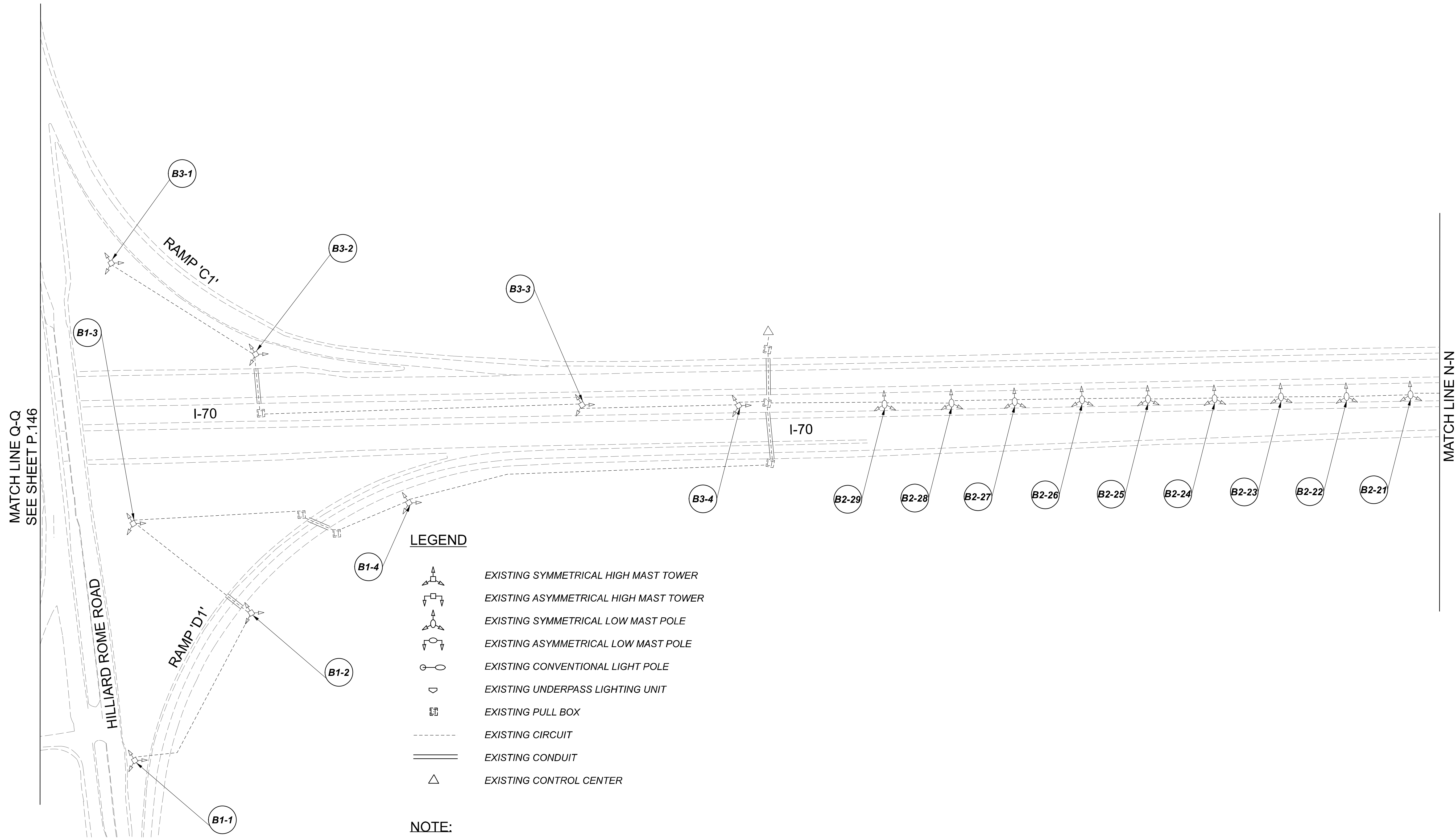


Lighting Plan - Location 77  
 I-70 and Hilliard Rome Road

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.146	
TOTAL	
197	

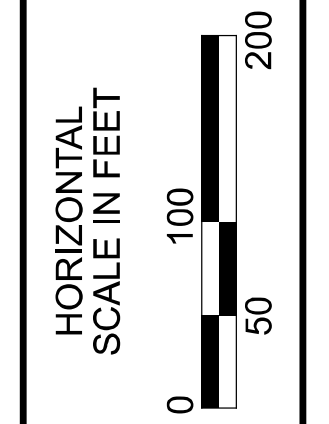
D06-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 13:26:01 PM USER: vrunez  
 p:\hllodot-pv\berriey\omohodot-pv-02\Documents\01\Active Projects\Statewide\Statewide\Lighting\Sheets\12676\_L\_P099.dgn



- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
  - EXISTING ASYMMETRICAL HIGH MAST TOWER
  - EXISTING SYMMETRICAL LOW MAST POLE
  - EXISTING ASYMMETRICAL LOW MAST POLE
  - EXISTING CONVENTIONAL LIGHT POLE
  - EXISTING UNDERPASS LIGHTING UNIT
  - EXISTING PULL BOX
  - EXISTING CIRCUIT
  - EXISTING CONDUIT
  - EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.146 FOR LUMINAIRE SCHEDULE

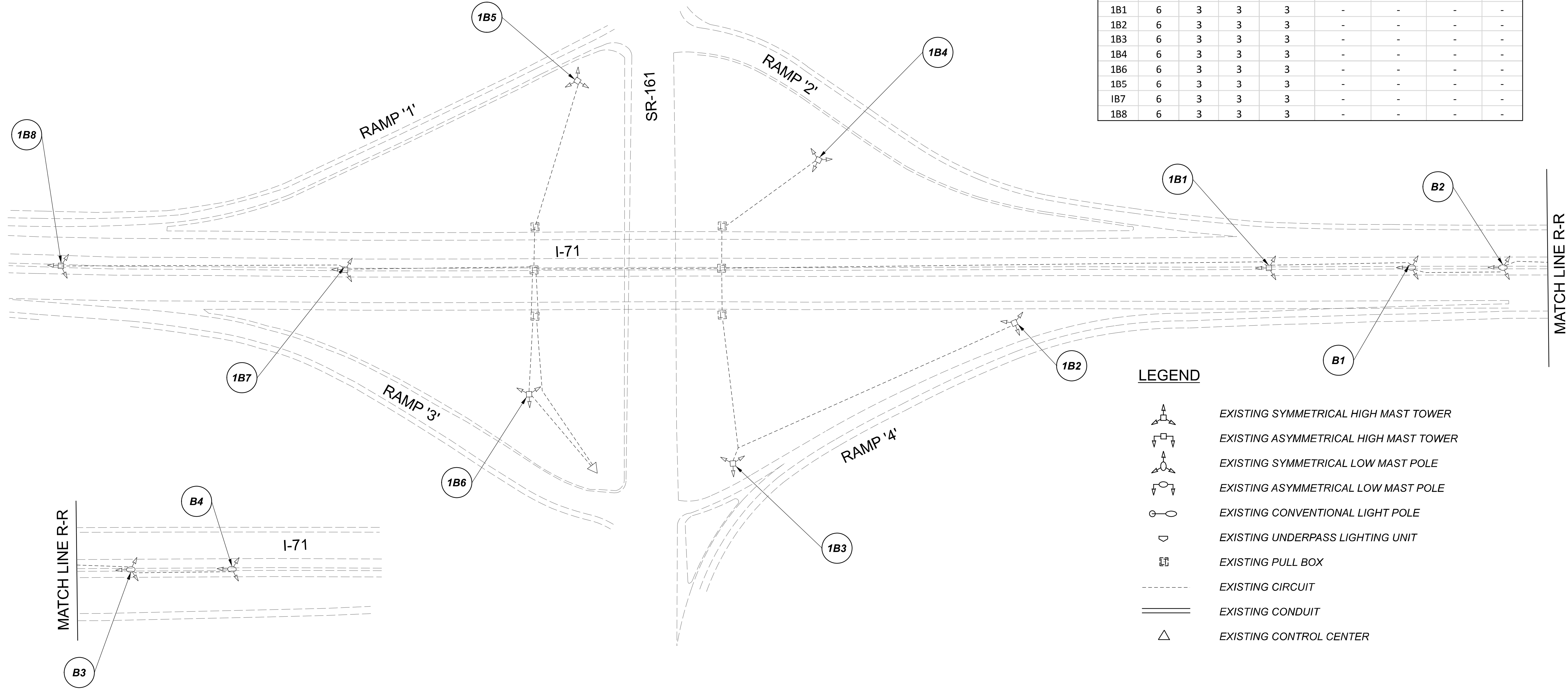


Lighting Plan - Location 77  
 I-70 and Hilliard Rome Road

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.147	197

D06-Lighting Upgrade FY2021

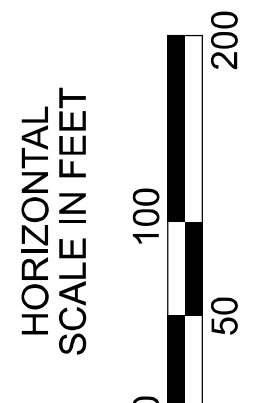
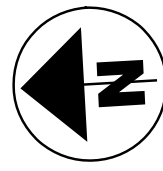
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 p:\1\chilodot-pv\berry\00mohodot-pv-02\Documents\01Active Projects\Statewide\112676\01-Engineering\_Singh\Associates\Lighting\Sheets\112676\_L1P00.dgn



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINA RE REMOVED (400W HPS)	LUMINA RE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINA RE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINA RE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINA RE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINA RE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINA RE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-4	1	1	-	-	-	-	-	-	1	-	-	-
B-3	1	1	-	-	-	-	-	-	1	-	-	-
B-2	1	1	-	-	-	-	-	-	1	-	-	-
B-1	1	1	-	-	-	-	-	-	1	-	-	-
1B1	6	3	3	3	-	-	-	-	-	-	-	-
1B2	6	3	3	3	-	-	-	-	-	-	-	-
1B3	6	3	3	3	-	-	-	-	-	-	-	-
1B4	6	3	3	3	-	-	-	-	-	-	-	-
1B6	6	3	3	3	-	-	-	-	-	-	-	-
1B5	6	3	3	3	-	-	-	-	-	-	-	-
1B7	6	3	3	3	-	-	-	-	-	-	-	-
1B8	6	3	3	3	-	-	-	-	-	-	-	-

LEGEND


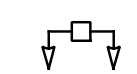
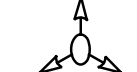
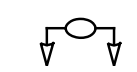
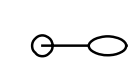


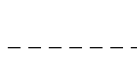
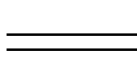

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 80  
I-71 and S.R. 161

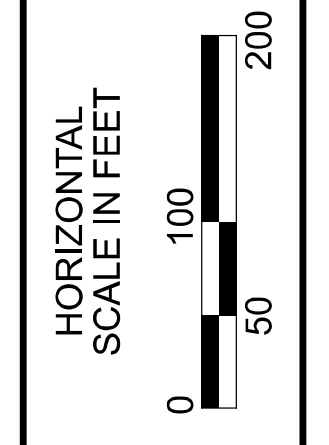
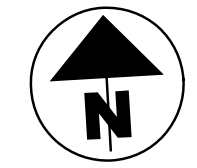
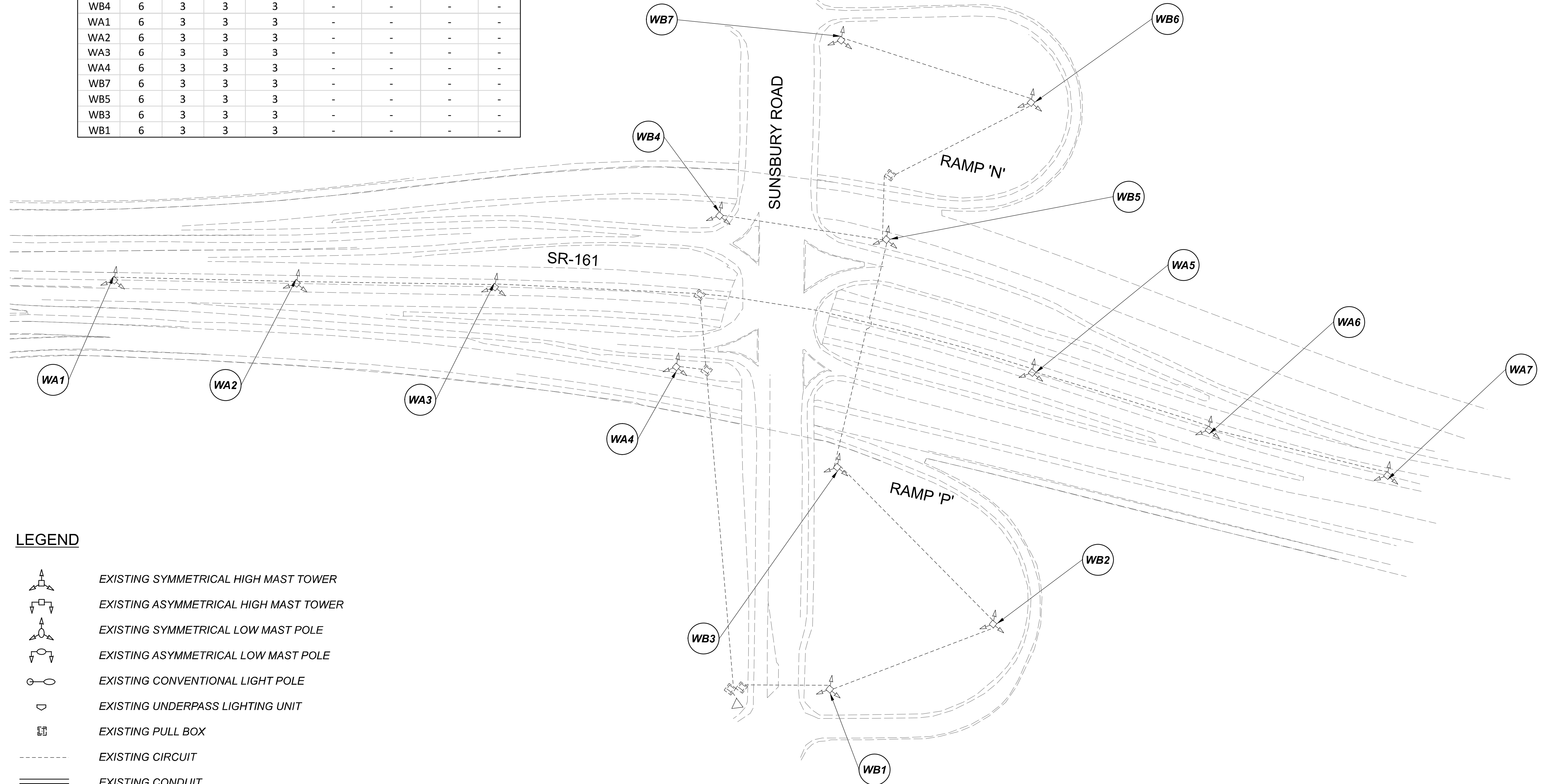
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.148	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
WB4	6	3	3	3	3							
WA1	6	3	3	3								
WA2	6	3	3	3								
WA3	6	3	3	3								
WA4	6	3	3	3								
WB7	6	3	3	3								
WB5	6	3	3	3								
WB3	6	3	3	3								
WB1	6	3	3	3								

WB2	6	3	3	3								
WB6	6	3	3	3								
WA5	6	3	3	3								
WA6	6	3	3	3								
WA7	6	3	3	3								



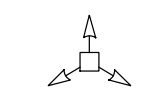
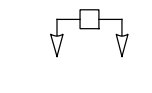
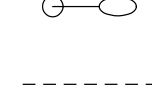


Lighting Plan - Location 81  
 S.R. 161 and South Sunsbury Road

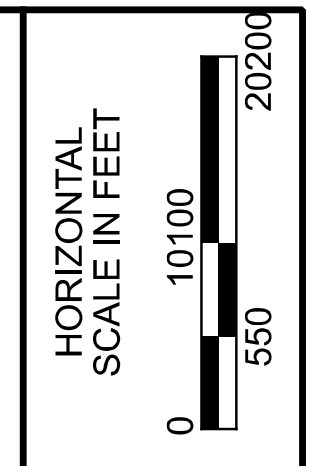
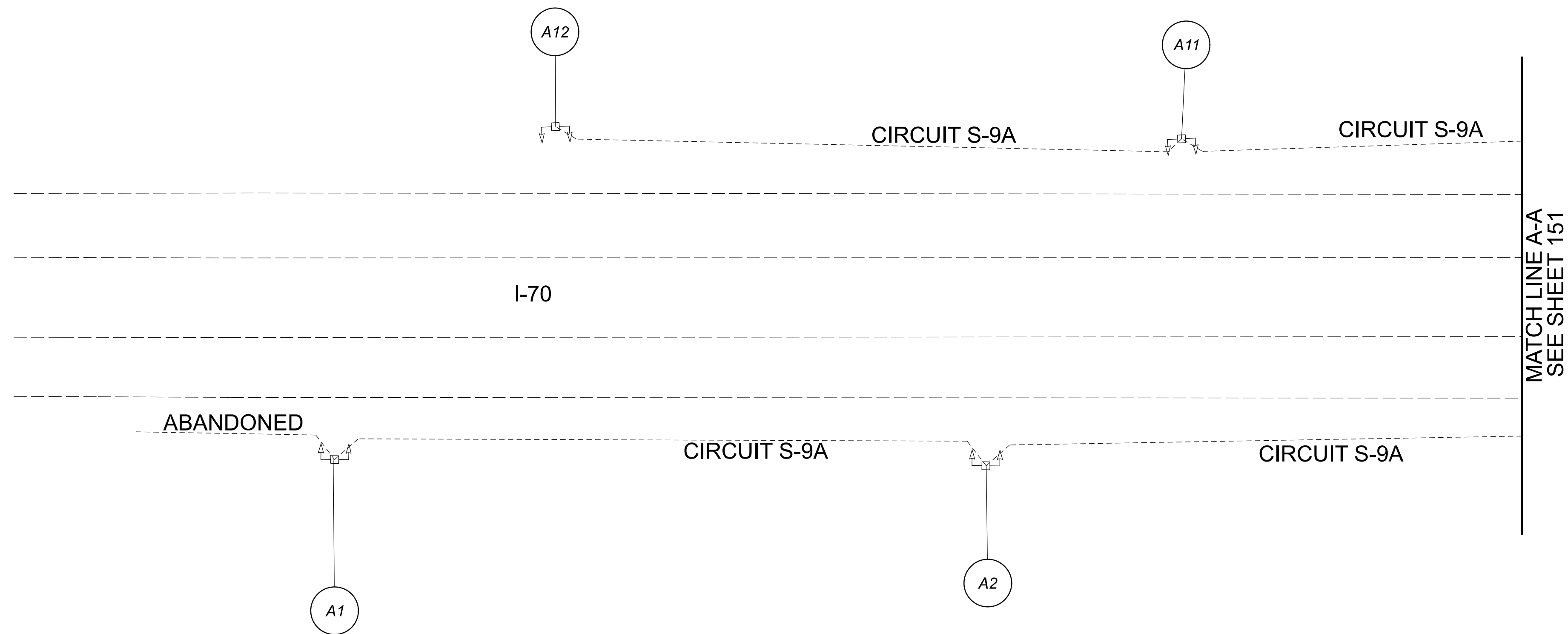
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.149	197

Lighting Upgrade FY2021

MODEL: 112676\_LF12 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:46:58 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01Active Projects\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP012.dgn

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-83  
 I-70 and Brice Rd.

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

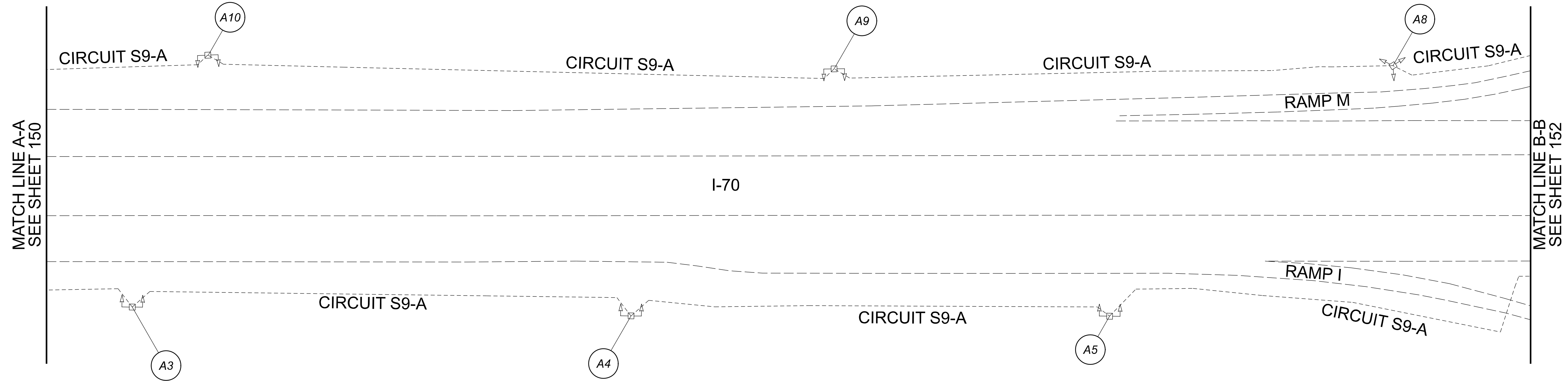
DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	150
TOTAL	197

\*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

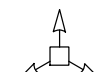
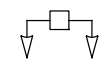
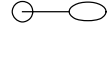




D06 Lighting Upgrade FY2021

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 pw: \\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\0 Active Projects\Statewide\12676\_402-Engineering\JM\Lighting\Sheets\12676\_LP013.dgn

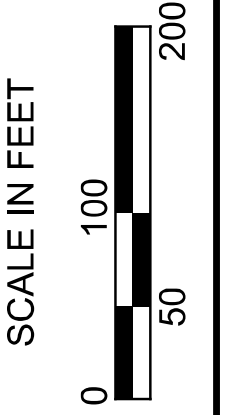


**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

\*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

Lighting Plan - Location D06-83  
 I-70 and Brice Rd.



DESIGN AGENCY



DESIGNER

DA

REVIEWER

RJM 03/11/22

PROJECT ID

112676

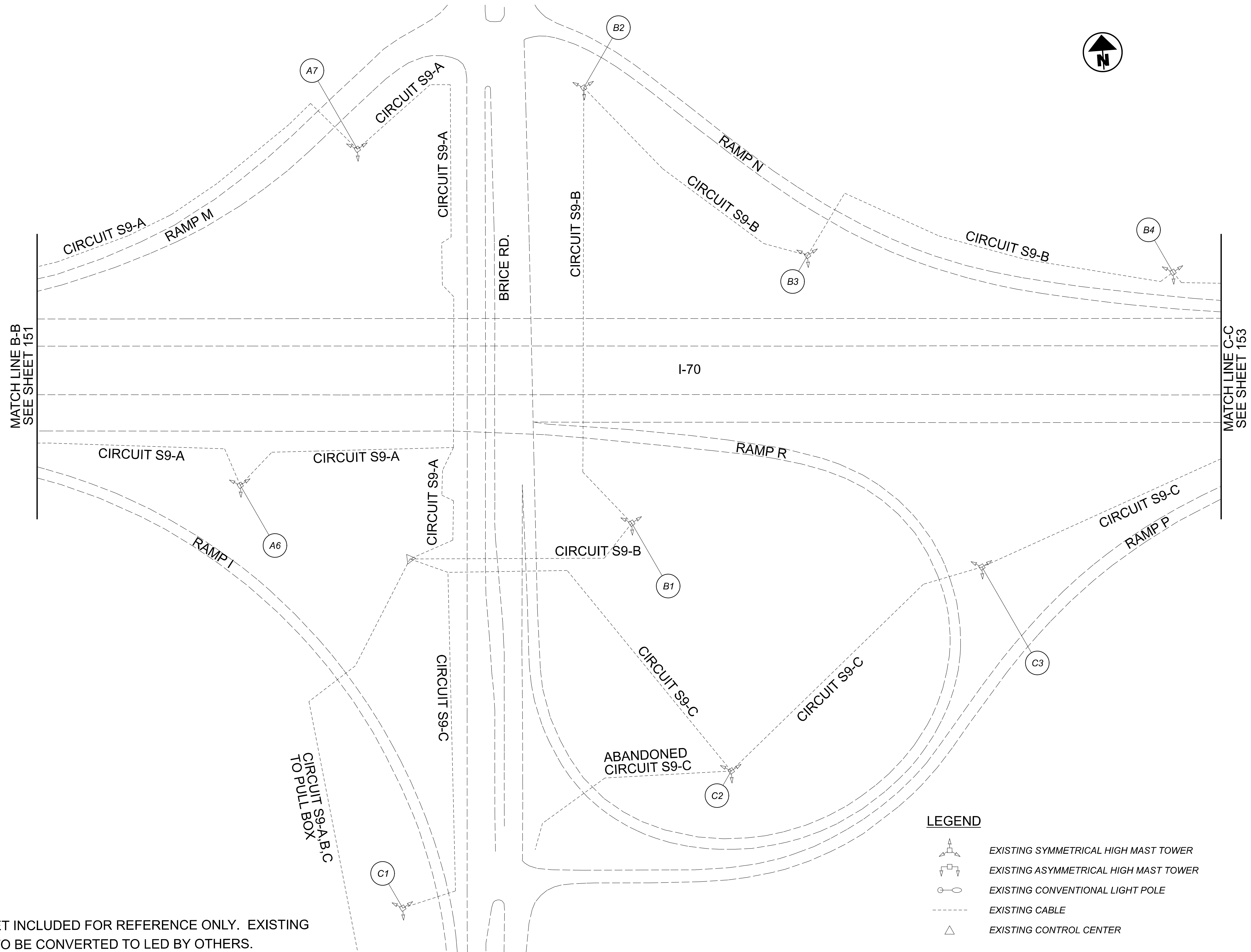
SHEET TOTAL

151 197

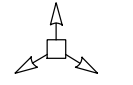
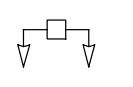
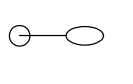


D06 Lighting Upgrade FY2021

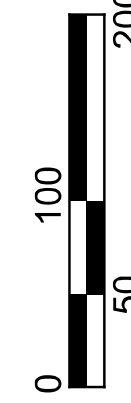

MODEL: 112676\_LF013 PAPER: 34x22 (in.) DATE: 3/11/2022 TIME: 9:47:31 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\0 Active Projects\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP014.dgn

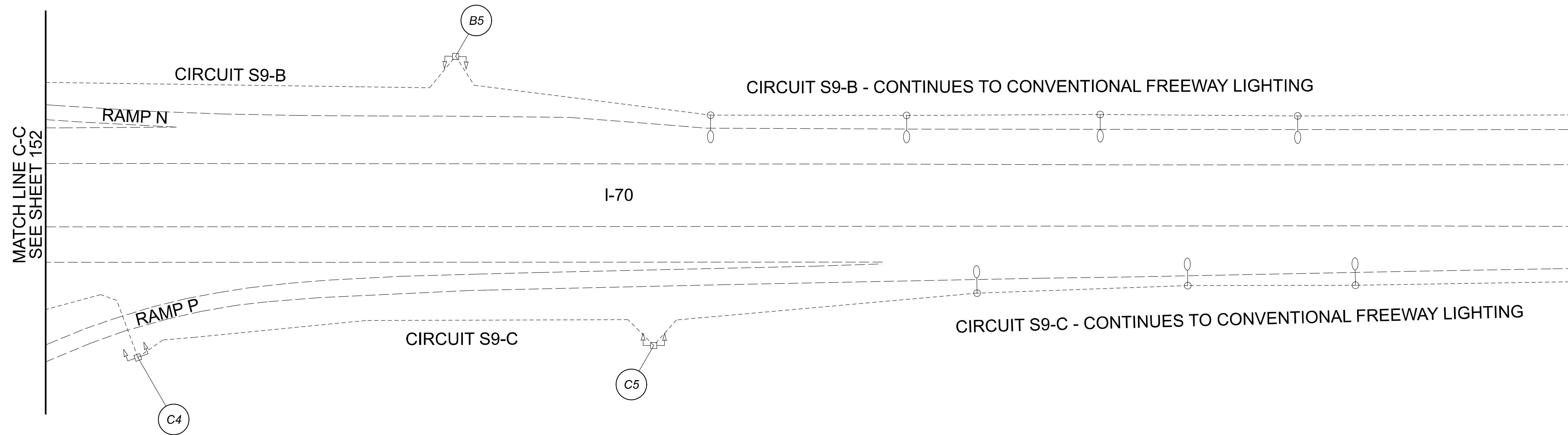
\*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.



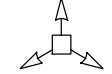
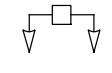
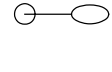


**LEGEND**

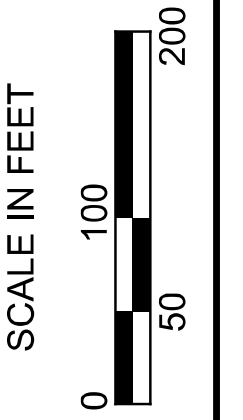
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

HORIZONTAL SCALE IN FEET 	
<b>Lighting Plan - Location D06-83</b> I-70 and Brice Rd.	
DESIGN AGENCY  2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43231	
DESIGNER DA	
REVIEWER RJM 03/11/22	
PROJECT ID 112676	
SHEET 152	TOTAL 197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-83  
I-70 and Brice Rd.



DESIGN AGENCY	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
153	197

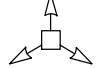
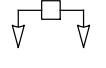
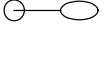


\*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

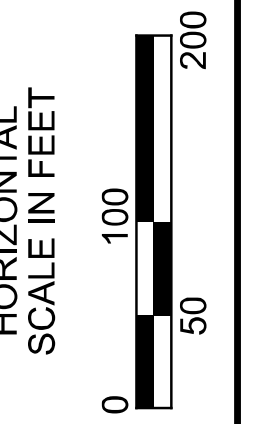
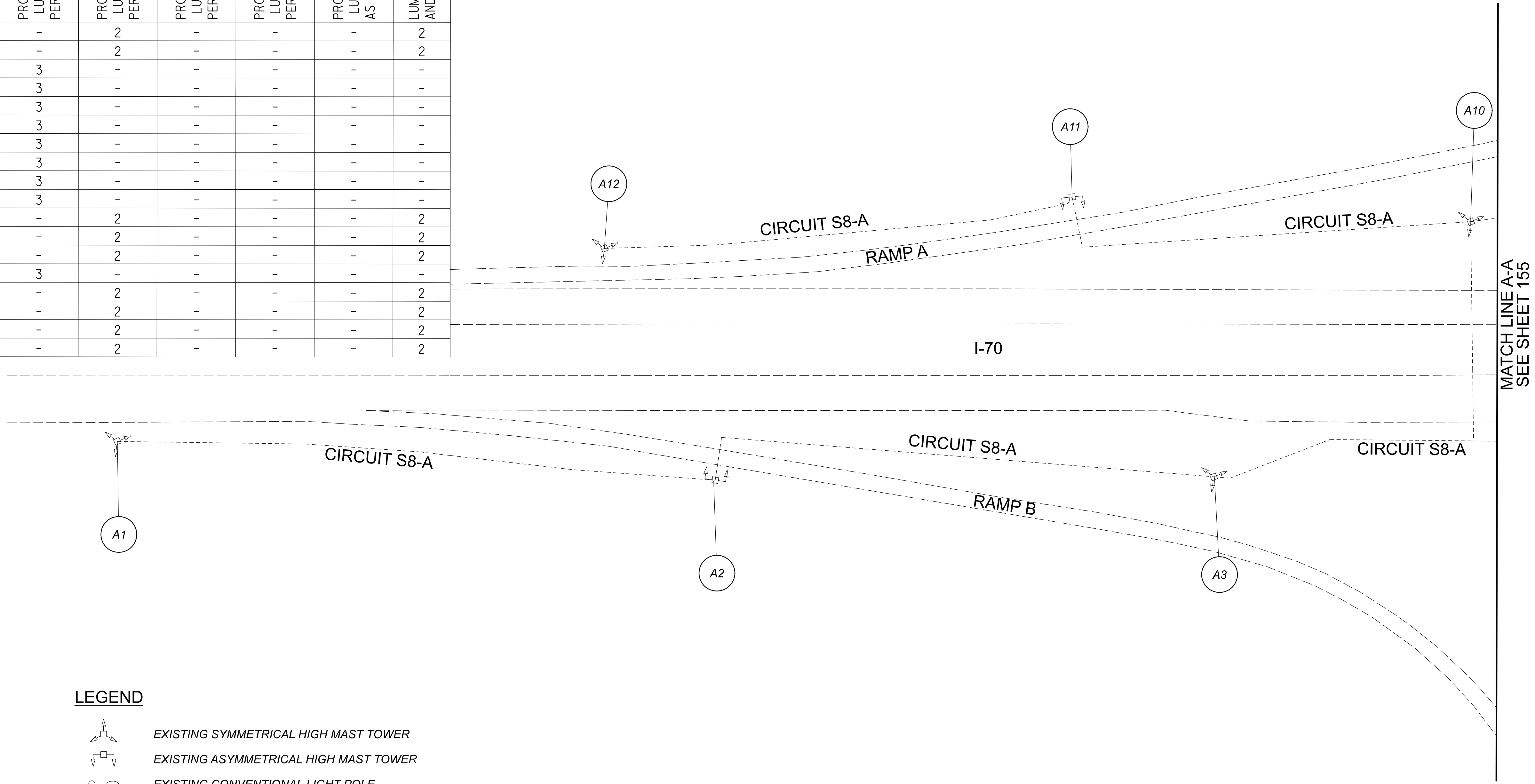
D06 Lighting Upgrade FY2021

MODEL: 112676\_LP015 PAPER/SCALE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:48:04 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\_402-Engineering\_JMT\Lighting\Sheets\112676\_LP016.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	4	2	-	-	2	-	-	-	2
A2	4	2	-	-	2	-	-	-	2
A3	6	3	3	3	-	-	-	-	-
A4	6	3	3	3	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-
A6	6	3	3	3	-	-	-	-	-
A7	6	3	3	3	-	-	-	-	-
A8	6	3	3	3	-	-	-	-	-
A9	6	3	3	3	-	-	-	-	-
A10	6	3	3	3	-	-	-	-	-
A11	4	2	-	-	2	-	-	-	2
A12	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	6	3	3	3	-	-	-	-	-
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B24	4	2	-	-	2	-	-	-	2
B25	4	2	-	-	2	-	-	-	2

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



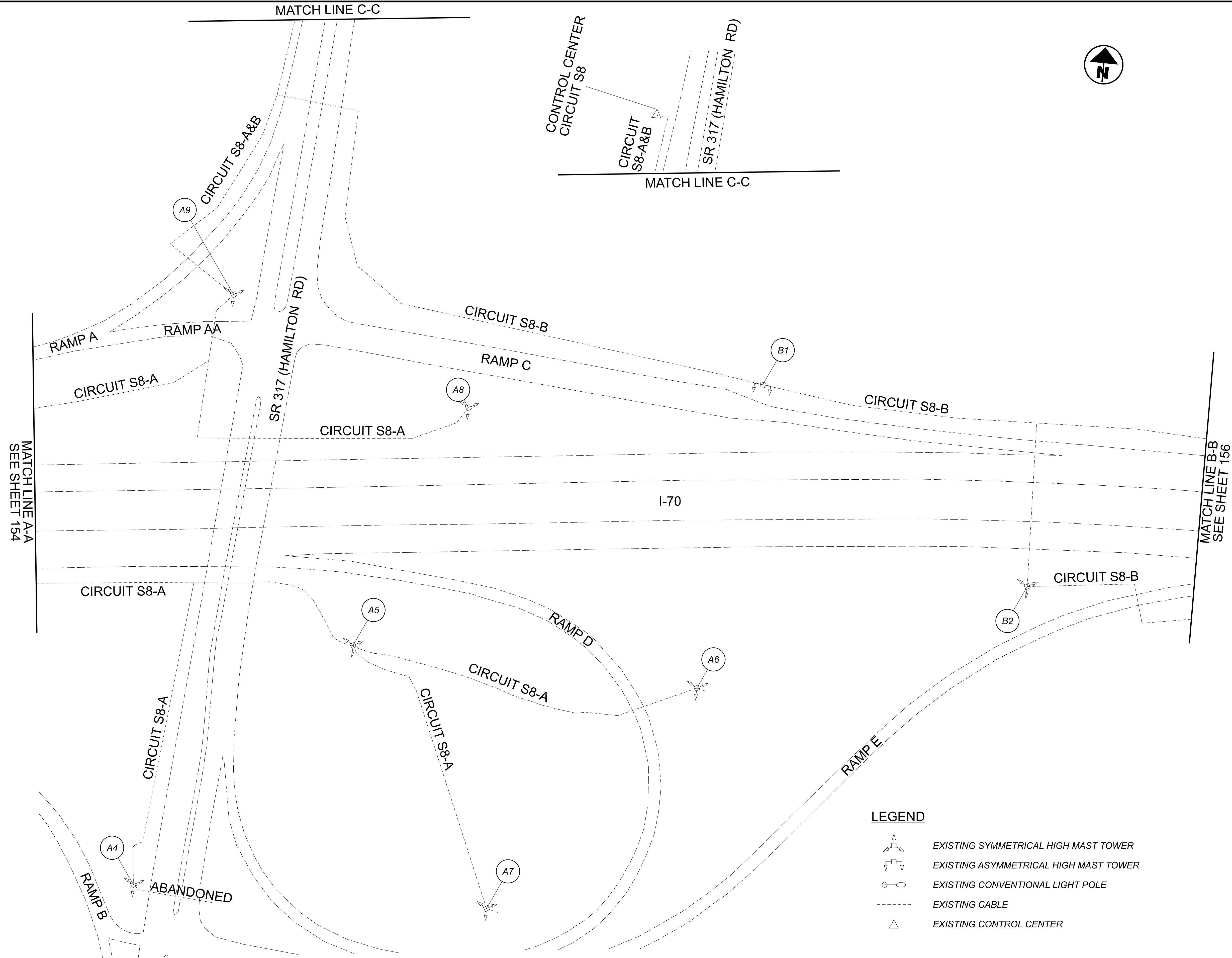
Lighting Plan - Location D06-84  
 I-70 and SR-317 (Hamilton Rd.)

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

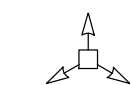
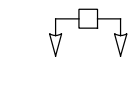
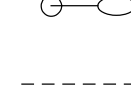


DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	154
TOTAL	197

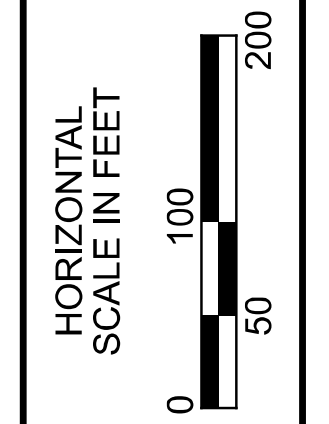
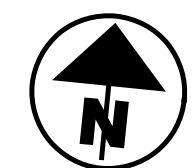
D06 Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

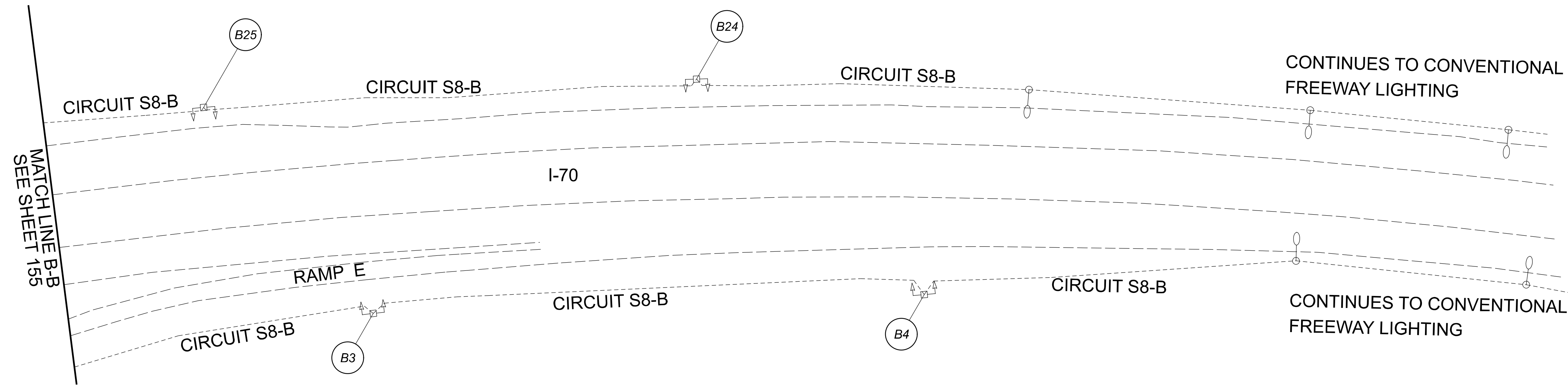


Lighting Plan - Location D06-84  
 I-70 and SR-317 (Hamilton Rd.)






DESIGN AGENCY	
	
2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43221	
DESIGNER	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
155	197

D06 Lighting Upgrade FY2021

MODEL: \\12676\_LF017 PAPER: 34x22 (in.) DATE: 3/1/2022 TIME: 9:48:38 AM USER: DAddison  
 pw: \\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\402-Engineering\JM\Lighting\Sheets\112676\_LP016.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-84  
 I-70 and SR-317 (Hamilton Rd.)

DESIGN AGENCY



DESIGNER

DA

REVIEWER

RJM 03/11/22

PROJECT ID

112676

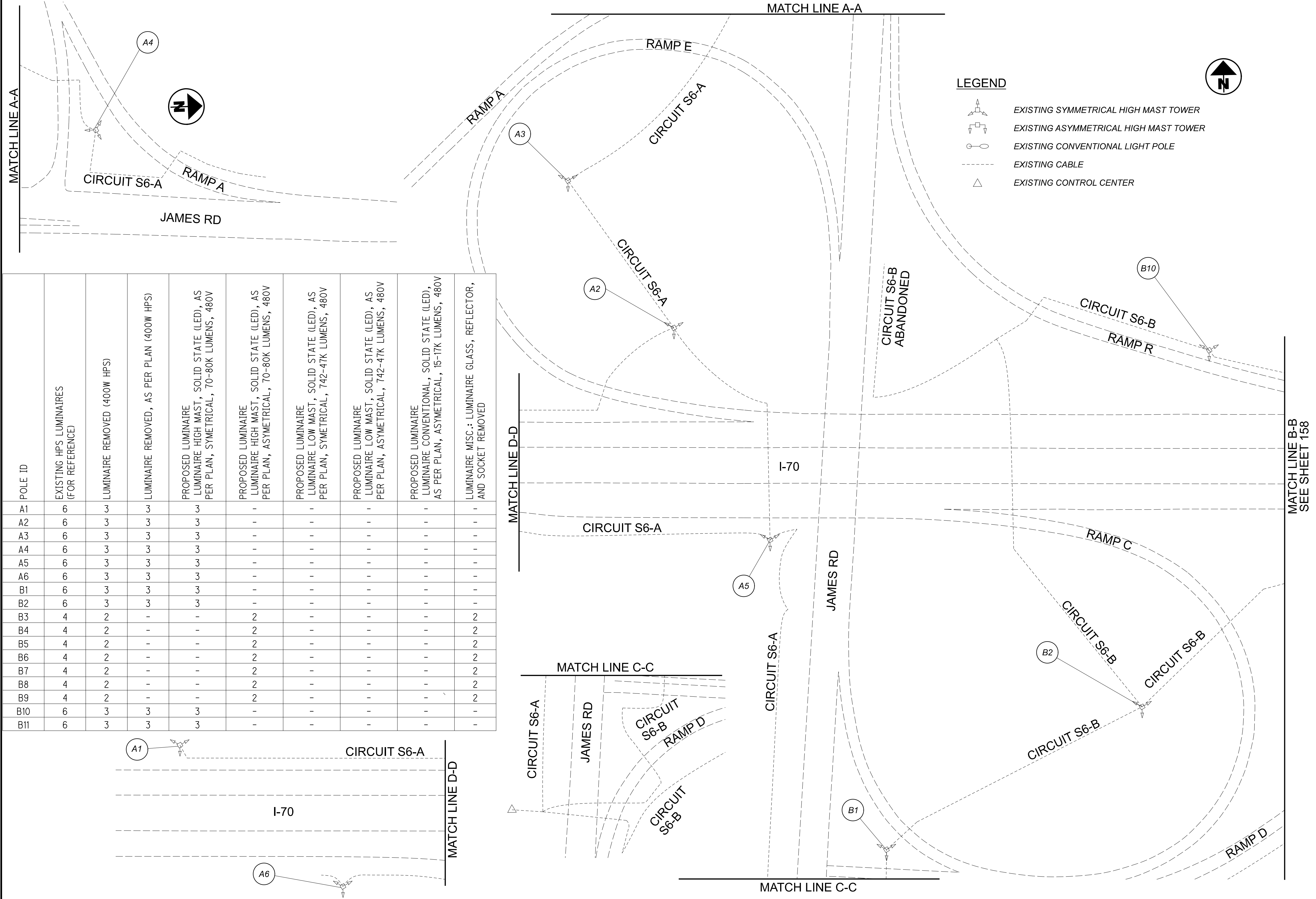
SHEET TOTAL

156 197

D06 Lighting Upgrade FY2021

MODEL: 112676\_LP019 PAPER: 34x22 (in.) DATE: 3/11/2022 TIME: 9:48:54 AM USER: DAddison  
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\_402-Engineering\_JMT\Lighting\Sheets\112676\_LP020.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	6	3	3	3	-	-	-	-	-
A2	6	3	3	3	-	-	-	-	-
A3	6	3	3	3	-	-	-	-	-
A4	6	3	3	3	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-
A6	6	3	3	3	-	-	-	-	-
B1	6	3	3	3	-	-	-	-	-
B2	6	3	3	3	-	-	-	-	-
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2
B9	4	2	-	-	2	-	-	-	2
B10	6	3	3	3	-	-	-	-	-
B11	6	3	3	3	-	-	-	-	-



Lighting Plan - Location D06-85  
I-70 and James Rd.

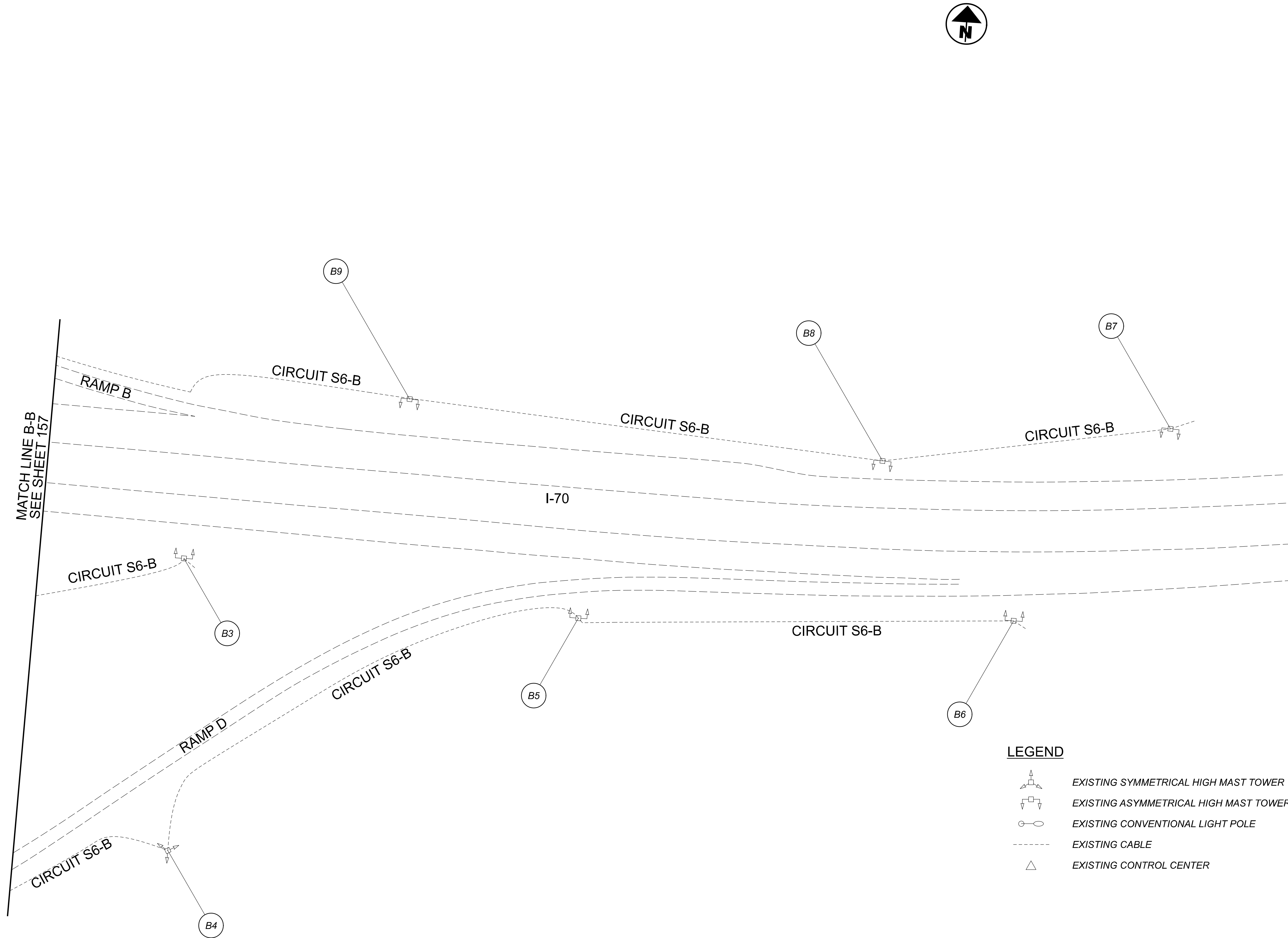
MATCH LINE B-B  
SEE SHEET 158

HORIZONTAL SCALE IN FEET  
0 50 100 200

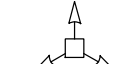
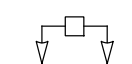
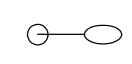


DESIGN AGENCY	
2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43221	
DESIGNER	DA
REVIEWER	RJM
PROJECT ID	112676
SHEET	TOTAL
157	197

D06 Lighting Upgrade FY2021

MODEL: 112676\_LF020 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:49:11AM USER: DAddison  
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-85  
 I-70 and James Rd.

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250,  
 Columbus, OH 43231

DESIGNER	DA
REVIEWER	RJM 03/11/22
PROJECT ID	112676
SHEET	TOTAL
158	197








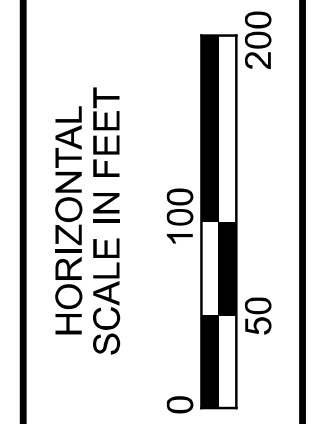
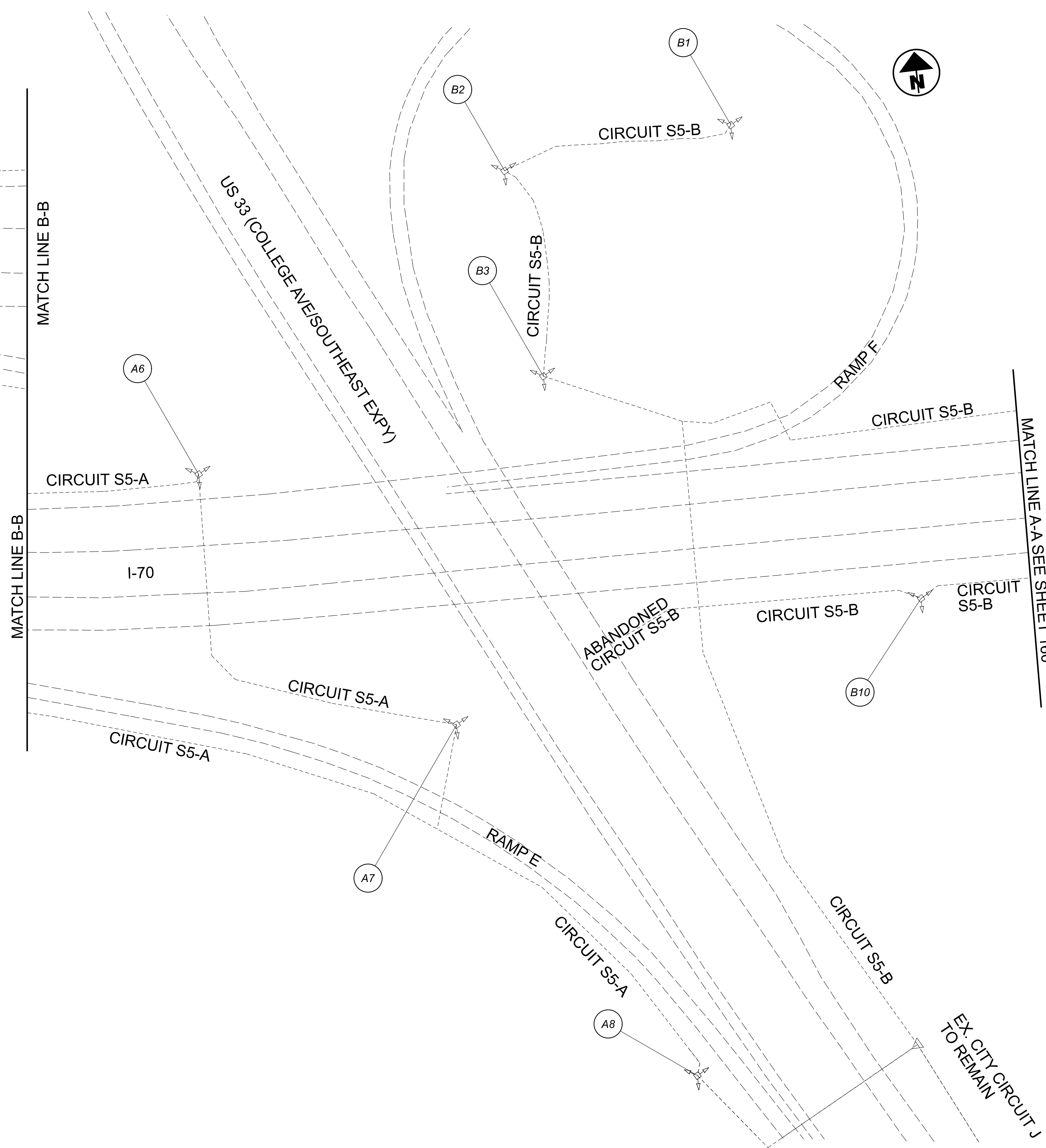
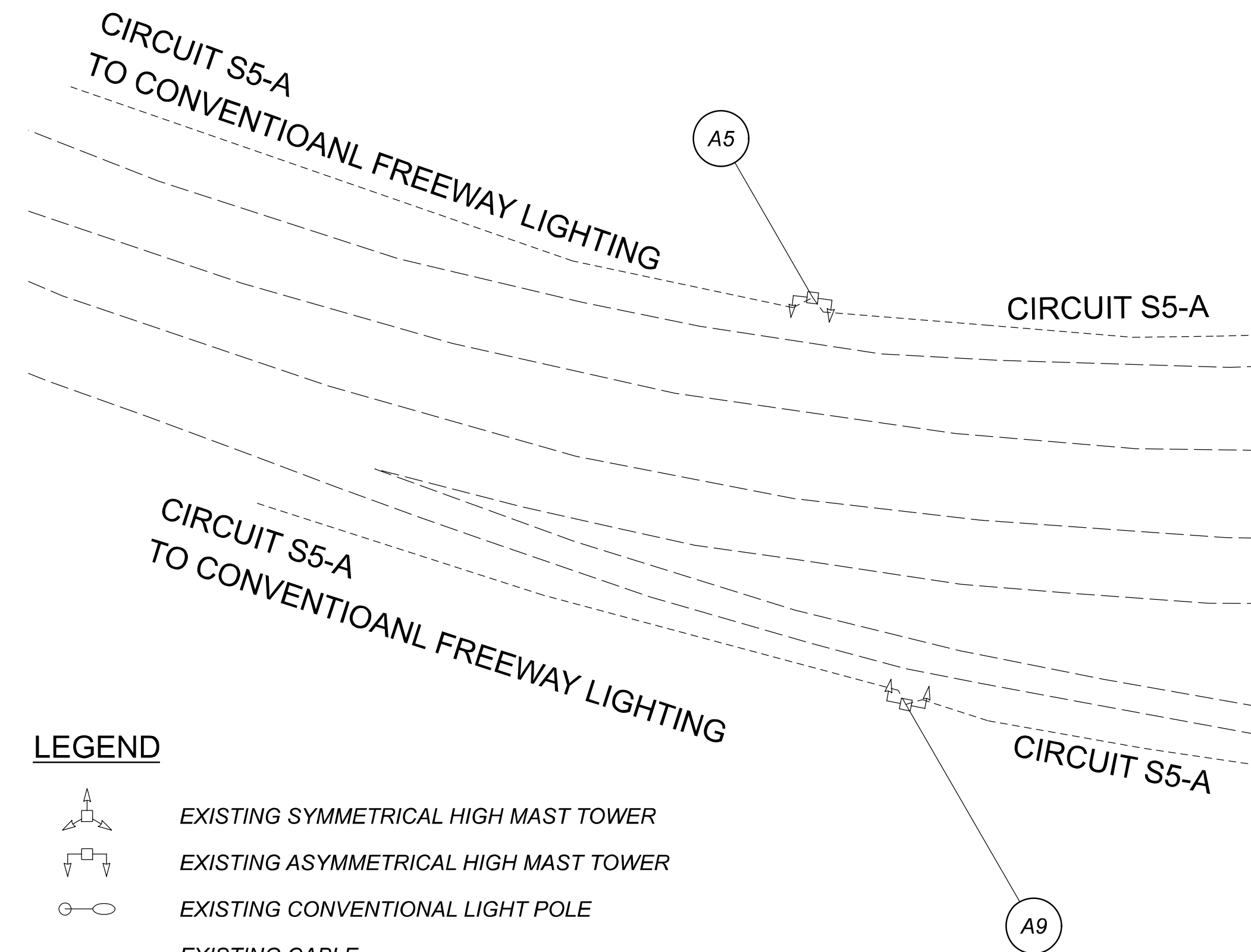
D06 Lighting Upgrade FY2021

MODEL: 112676\_LP021 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:49:28 AM USER: DAddison  
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\Statewide\Lighting\Lighting\Sheets\112676\_LP022.dgn


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A5	4	2	-	-	2	-	-	-	2
A6	4	2	-	-	2	-	-	-	2
A7	6	3	3	3	-	-	-	-	-
A8	4	2	-	-	2	-	-	-	2
A9	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	4	2	-	-	2	-	-	-	2
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2
B9	4	2	-	-	2	-	-	-	2
B10	6	3	3	3	-	-	-	-	-

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

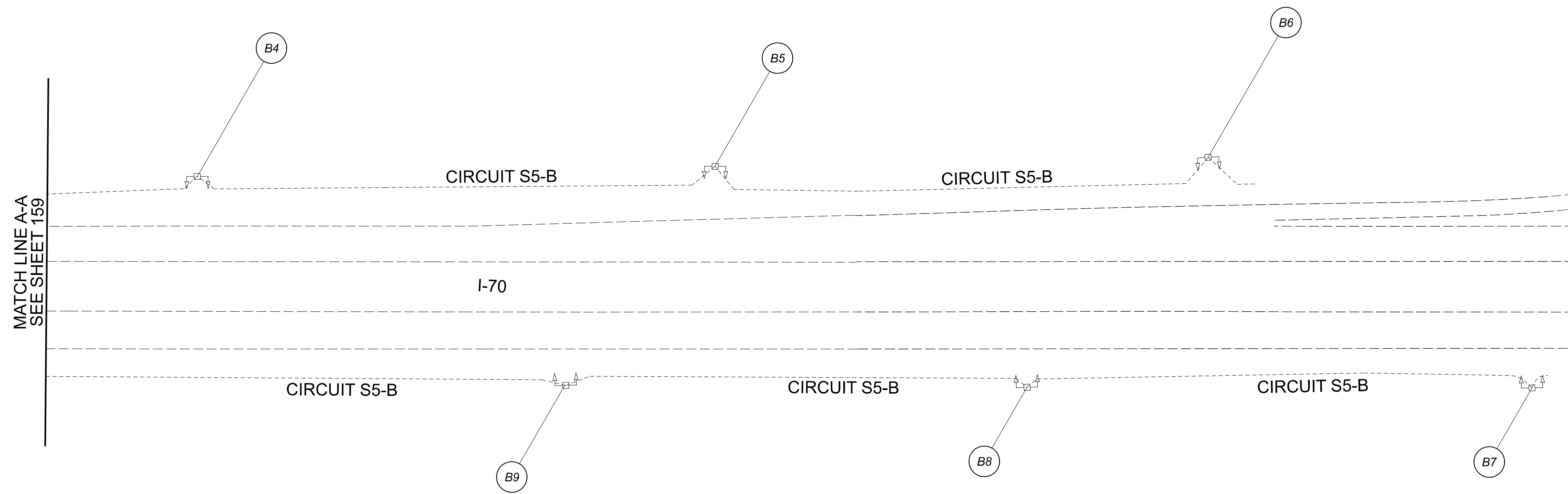


Lighting Plan - Location D06-86  
 I-70 and US-33 (College Ave/Southeast Expy)

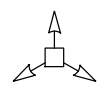
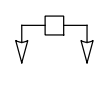
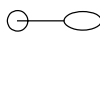


DESIGN AGENCY	
	
2800 Corporate Exchange Drive, Suite 251 Columbus, OH 43221	
DESIGNER	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
159	197

**D06 Lighting Upgrade FY2021**

MODEL: 112676\_LF022 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:49:45 AM USER: DAddison  
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP023.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



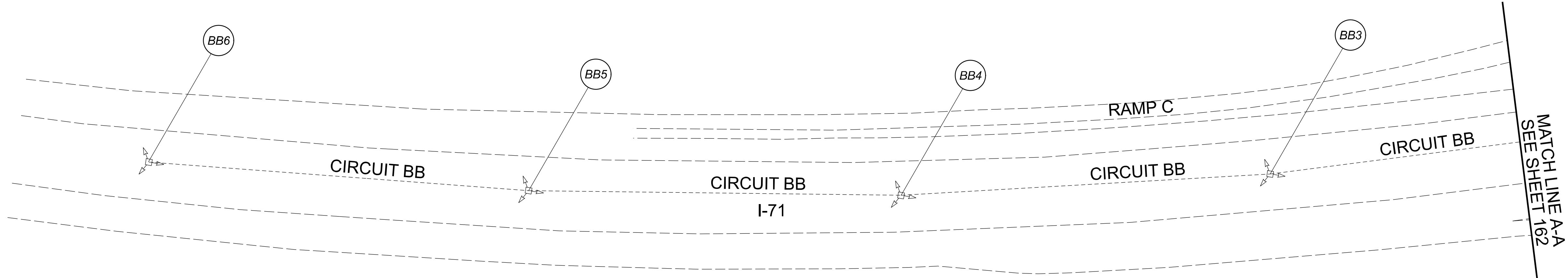
**Lighting Plan - Location D06-86  
 I-70 and US-33 (College Ave/Southeast Expy)**








DESIGNER	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
160	197

D06 Lighting Upgrade FY2021

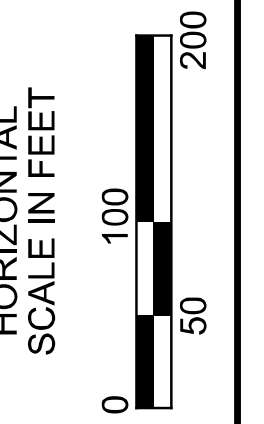
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 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\12676\402-Engineering-JMT\Lighting\Sheets\12676\_LP024.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
BA1	6	3	3	3	-	-	-	-	-
BA2	6	3	3	3	-	-	-	-	-
BA3	6	3	3	3	-	-	-	-	-
BB1	6	3	3	3	-	-	-	-	-
BB2	6	3	3	3	-	-	-	-	-
BB3	6	3	3	3	-	-	-	-	-
BB4	6	3	3	3	-	-	-	-	-
BB5	6	3	3	3	-	-	-	-	-
BB6	6	3	3	3	-	-	-	-	-
CA1	6	3	3	3	-	-	-	-	-
CA2	6	3	3	3	-	-	-	-	-
CA3	6	3	3	3	-	-	-	-	-
CA4	6	3	3	3	-	-	-	-	-
CA5	6	3	3	3	-	-	-	-	-
CB1	6	3	3	3	-	-	-	-	-
CB2	6	3	3	3	-	-	-	-	-
CB3	6	3	3	3	-	-	-	-	-
CB4	6	3	3	3	-	-	-	-	-
CB5	6	3	3	3	-	-	-	-	-



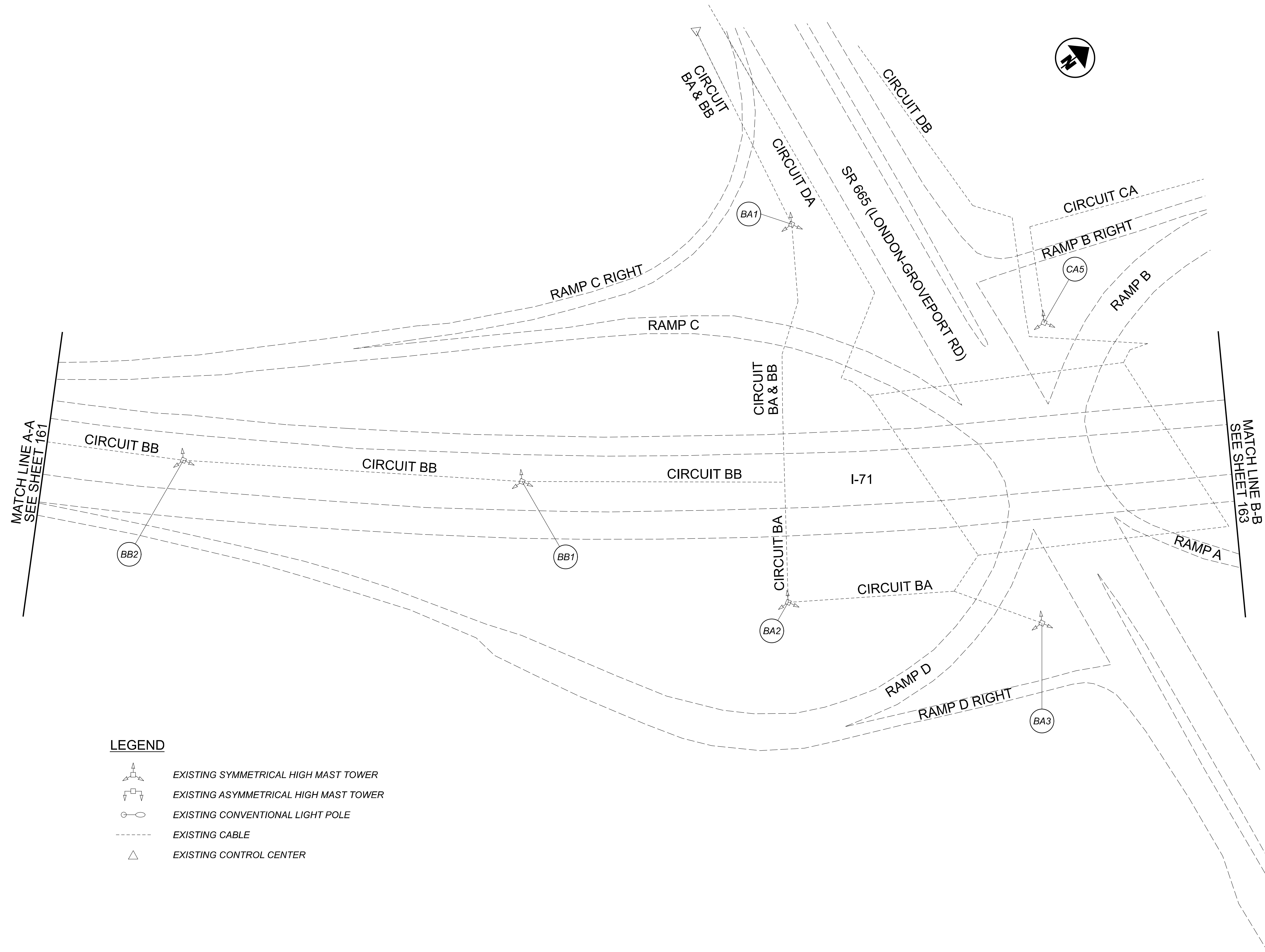
Lighting Plan - Location D06-88  
 I-71 and SR-665 (London-Groveport Rd.)



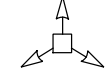
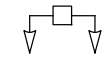
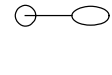


DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	161
TOTAL	197

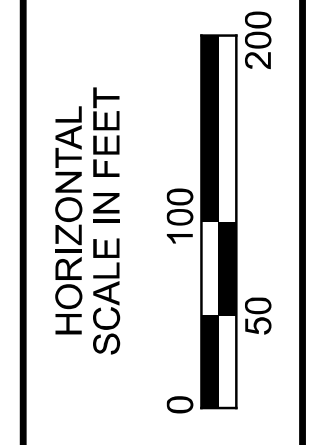
D06 Lighting Upgrade FY2021

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 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0\Active Projects\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP025.dgn



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



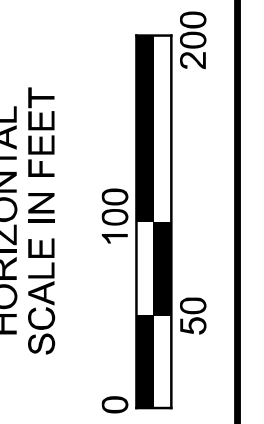
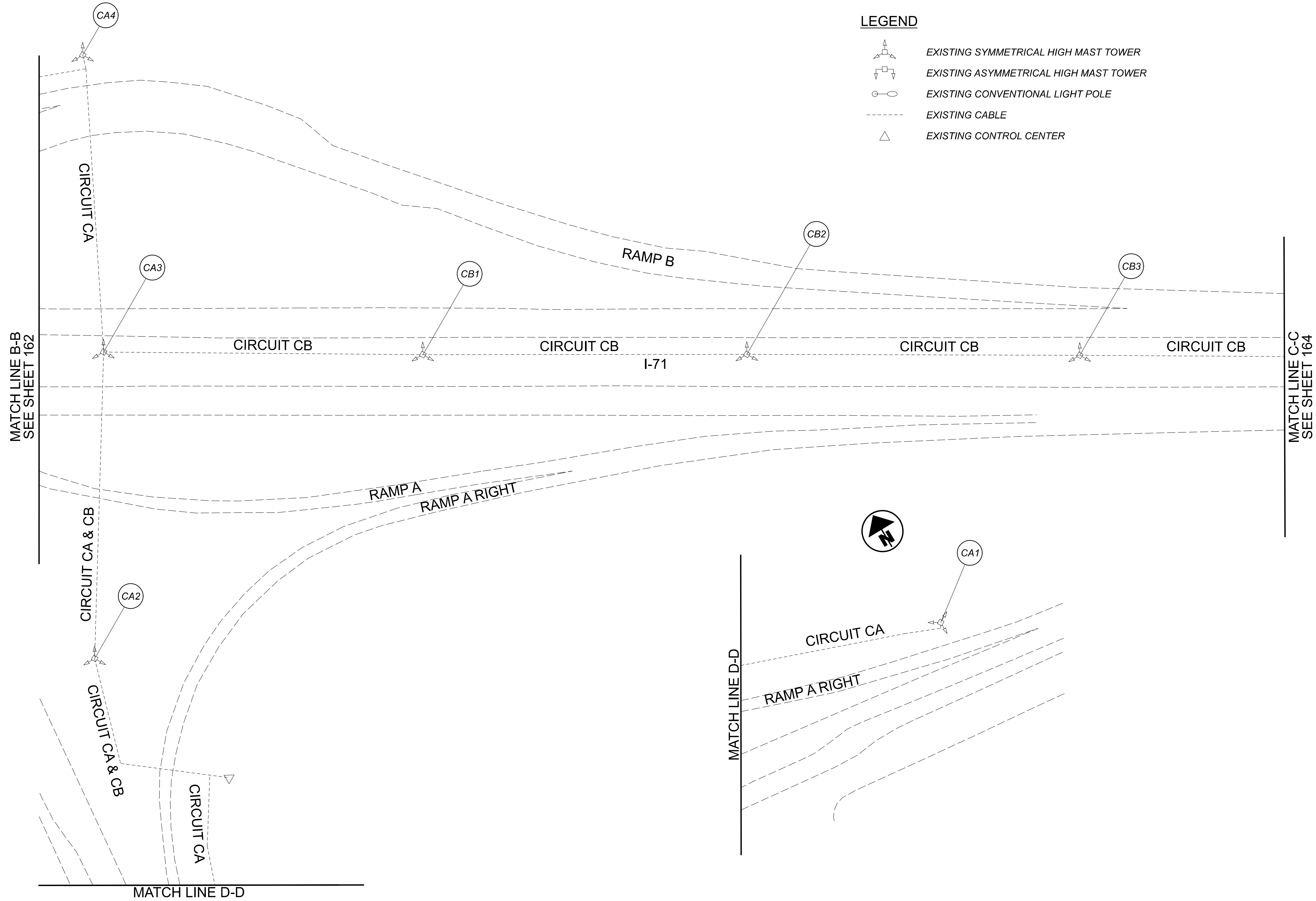
Lighting Plan - Location D06-88  
 I-71 and SR-665 (London-Groveport Rd.)

DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	TOTAL
162	197

D06 Lighting Upgrade FY2021

MODEL: 112676\_LF025 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:50:36 AM USER: DAddison  
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0\Active Projects\Statewide\112676\_402-Engineering\JMT\Lighting\Sheets\112676\_LP026.dgn



Lighting Plan - Location D06-88  
 I-71 and SR-665 (London-Groveport Rd.)

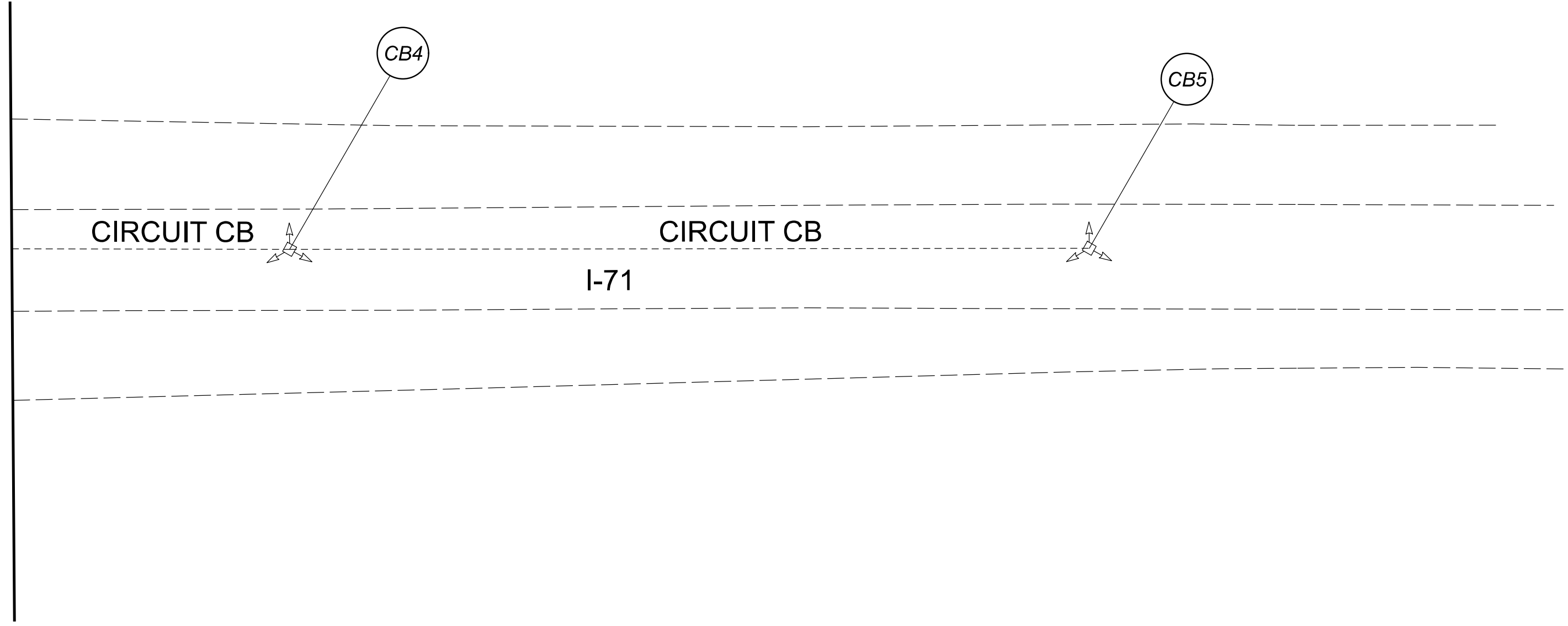
DESIGN AGENCY  
  
 2800 Corporate Exchange Drive, Suite 250  
 Columbus, OH 43231

DESIGNER	DA
REVIEWER	RJM
PROJECT ID	112676
SHEET	TOTAL
163	197

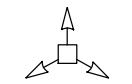
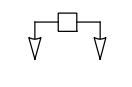
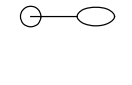


D06 Lighting Upgrade FY2021

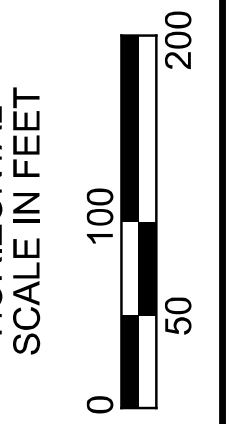
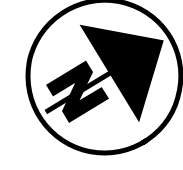
MODEL: 112676\_LF026 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:50:52 AM USER: DAddison  
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MATCH LINE C-C  
SEE SHEET 163



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



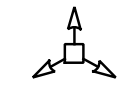
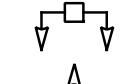
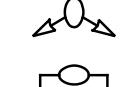
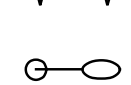






Lighting Plan - Location D06-88  
I-71 and SR-665 (London-Groveport Rd.)

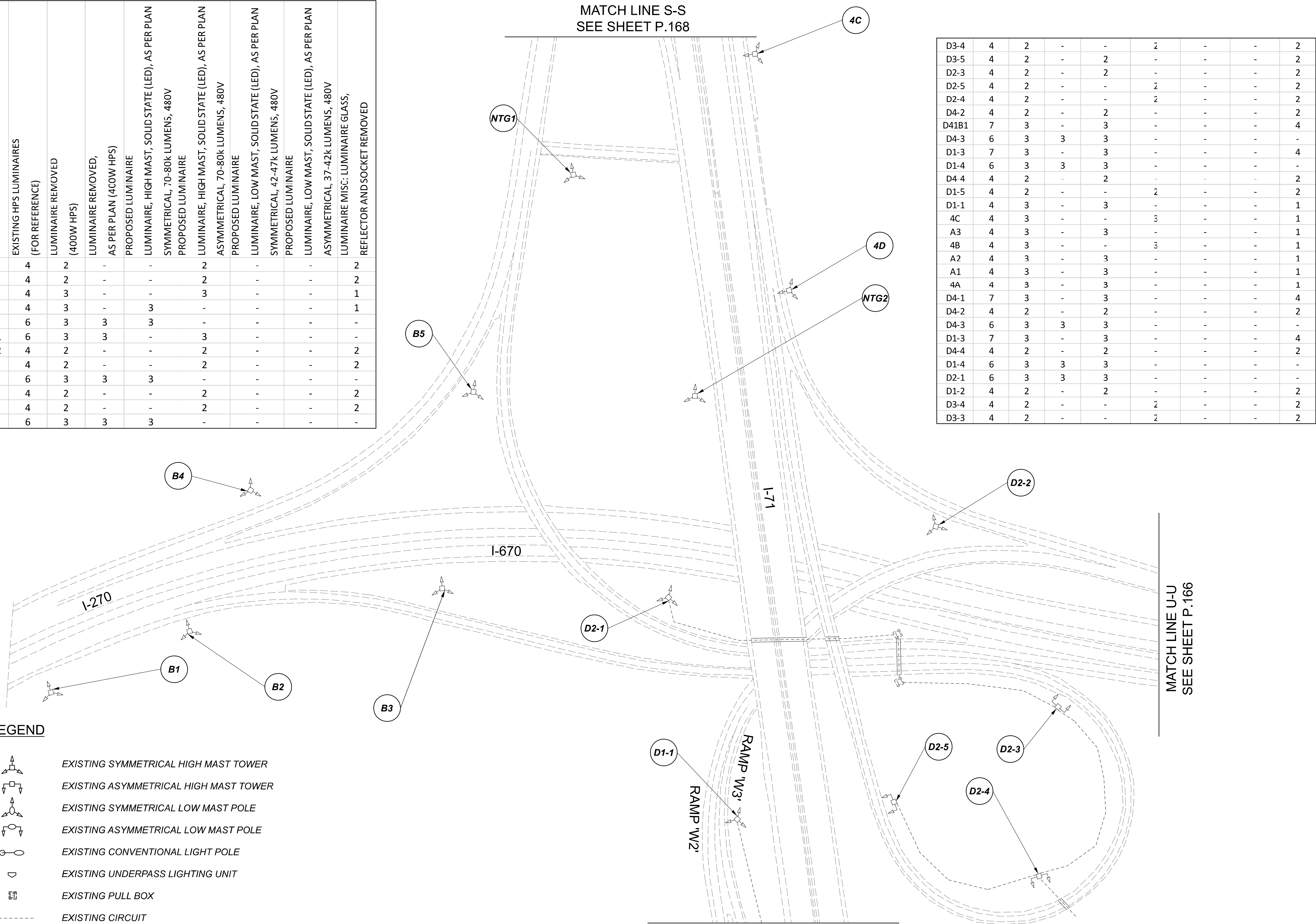


DESIGNER	DA
REVIEWER	RJM 03/11/22
PROJECT ID	112676
SHEET	TOTAL
164	197

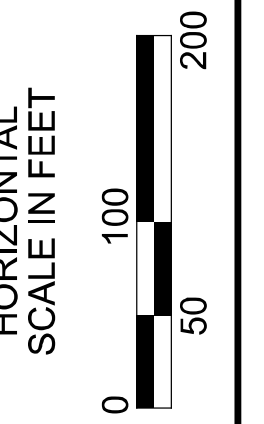
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
B2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
B4	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	1
B3	4	3	-	3	-	-	-	-	-	-	-	-	-	-	-	1
B5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
NTG1	6	3	3	-	-	-	3	-	-	-	-	-	-	-	-	-
NTG2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
4D	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
D2-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
D3-1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
D3-2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
D3-6	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



D3-4	4	2	-	-	2	-	-	-	2
D3-5	4	2	-	2	-	-	-	-	2
D2-3	4	2	-	2	-	-	-	-	2
D2-5	4	2	-	-	2	-	-	-	2
D2-4	4	2	-	-	2	-	-	-	2
D4-2	4	2	-	2	-	-	-	-	2
D41B1	7	3	-	3	-	-	-	-	4
D4-3	6	3	3	3	-	-	-	-	-
D1-3	7	3	-	3	-	-	-	-	4
D1-4	6	3	3	3	-	-	-	-	-
D4-4	4	2	-	2	-	-	-	-	2
D1-5	4	2	-	-	2	-	-	-	2
D1-1	4	3	-	3	-	-	-	-	1
4C	4	3	-	-	3	-	-	-	1
A3	4	3	-	3	-	-	-	-	1
4B	4	3	-	-	3	-	-	-	1
A2	4	3	-	3	-	-	-	-	1
A1	4	3	-	3	-	-	-	-	1
4A	4	3	-	3	-	-	-	-	1
D4-1	7	3	-	3	-	-	-	-	4
D4-2	4	2	-	2	-	-	-	-	2
D4-3	6	3	3	3	-	-	-	-	-
D1-3	7	3	-	3	-	-	-	-	4
D4-4	4	2	-	2	-	-	-	-	2
D1-4	6	3	3	3	-	-	-	-	-
D2-1	6	3	3	3	-	-	-	-	-
D1-2	4	2	-	2	-	-	-	-	2
D3-4	4	2	-	-	2	-	-	-	2
D3-3	4	2	-	-	2	-	-	-	2



Lighting Plan - Location 89  
I-670 and I-71

DESIGN AGENCY



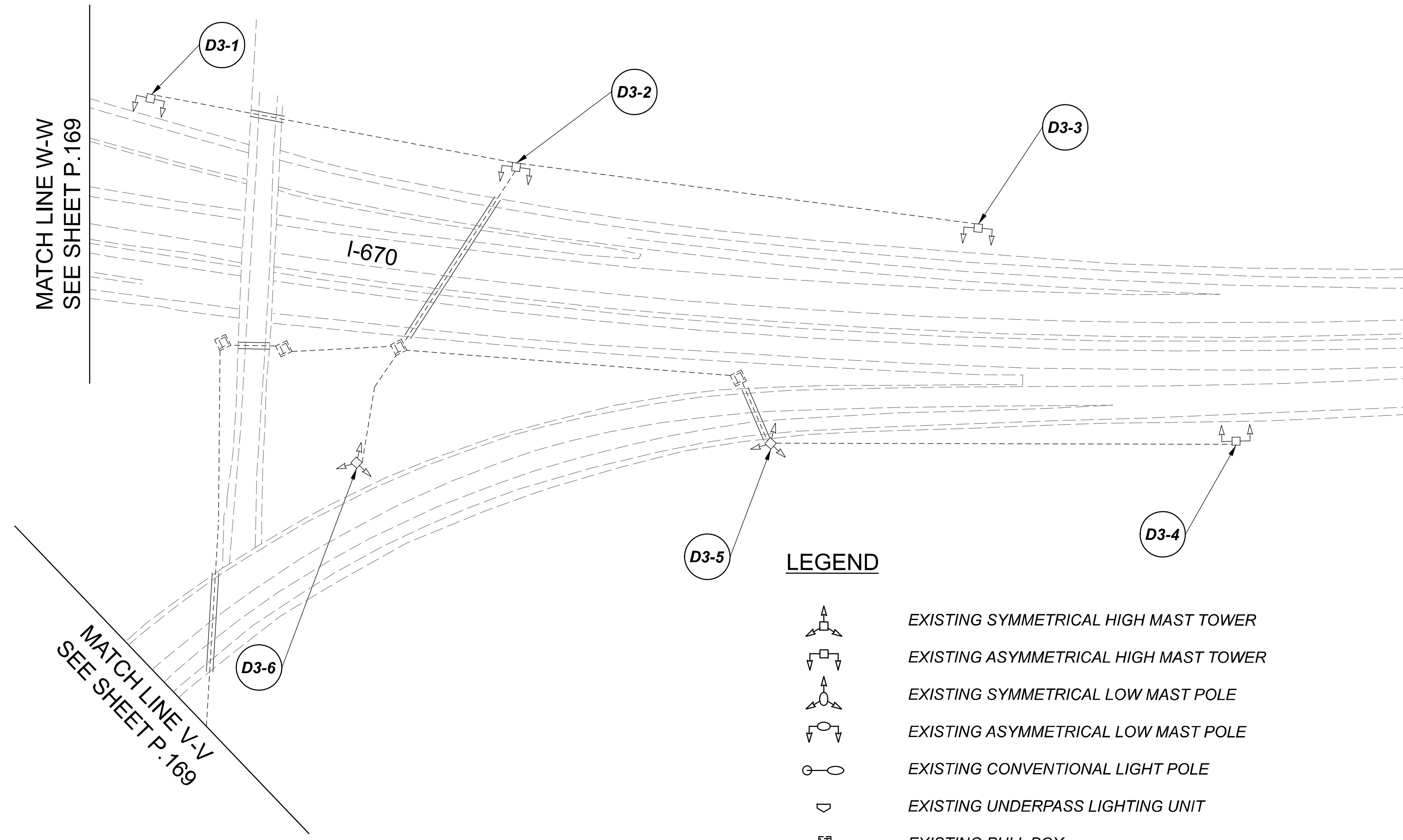
DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

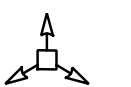
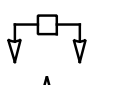
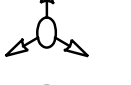



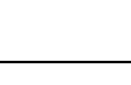
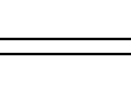

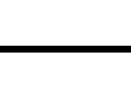
SUBSET	TOTAL
1	2

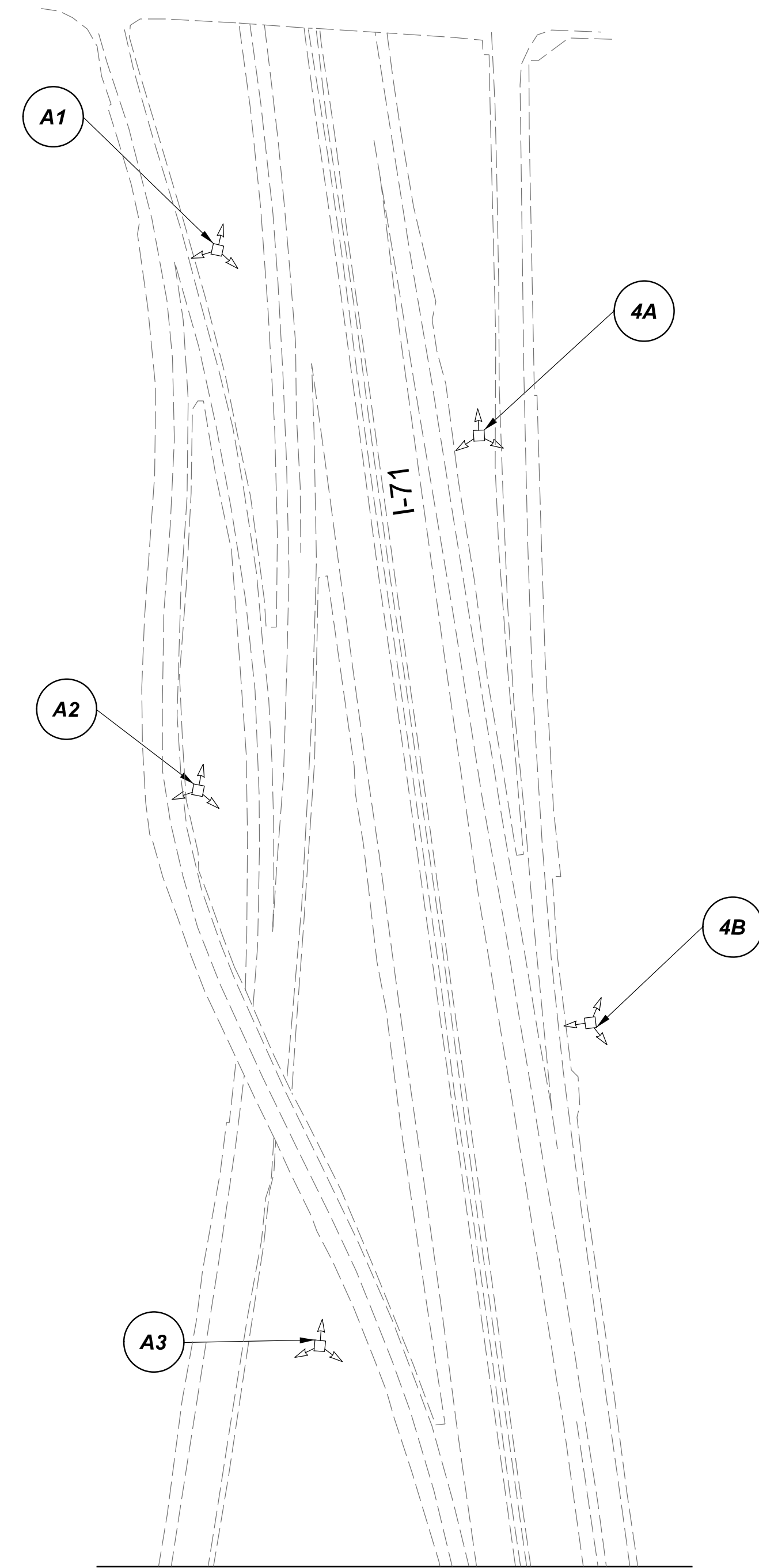
SHEET	TOTAL
P.165	197



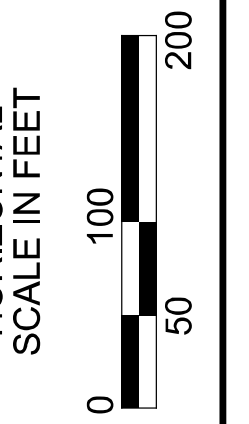
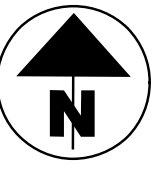
NOTE:  
SEE SHEET P.167 FOR LUMINAIRE SCHEDULE

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE S-S  
SEE SHEET P.165



Lighting Plan - Location 89  
I-670 and I-71

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.166	197













MATCH LINE V-V  
SEE SHEET P. 168

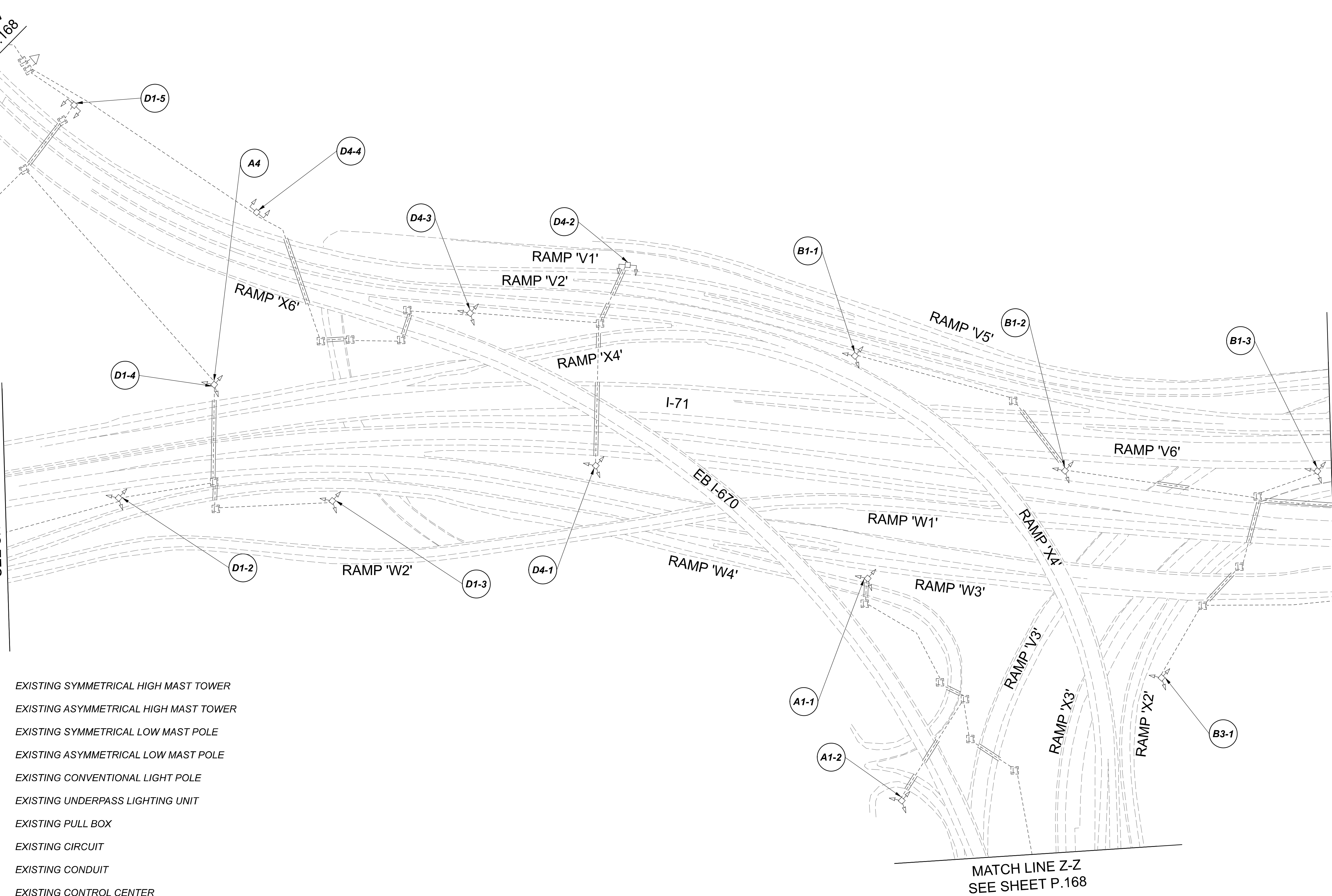
MATCH LINE T-T  
SEE SHEET P. 165

MATCH LINE X-X  
SEE SHEET P. 168

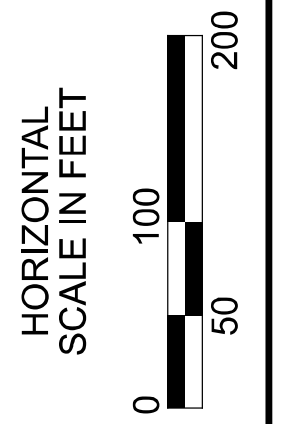
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P. 168 FOR LUMINAIRE SCHEDULE



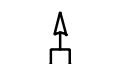
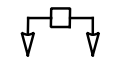
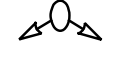







MATCH LINE Z-Z  
SEE SHEET P. 168



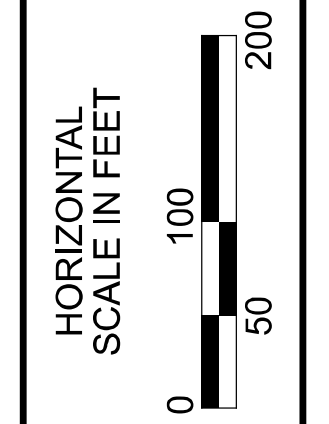
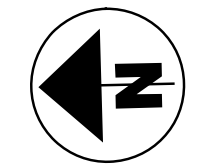
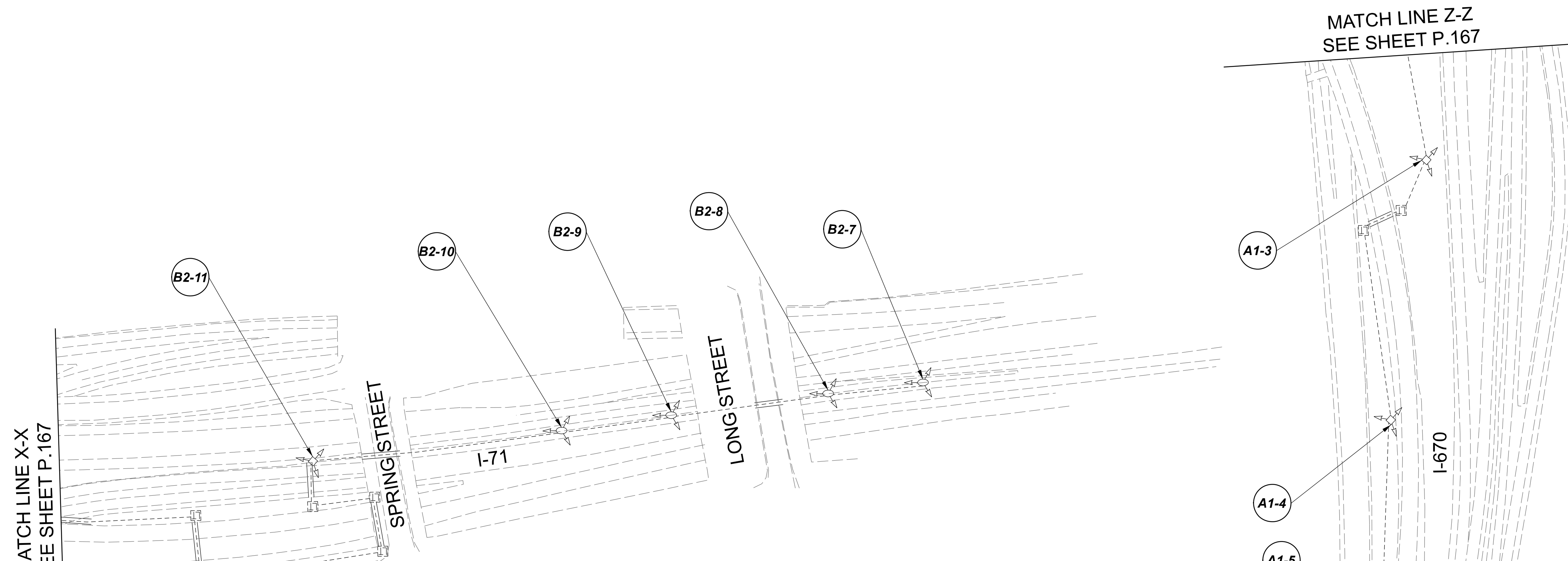
**Lighting Plan - Location 90**  
I-71 and I-670

DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P. 167	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B2-7	1	1	-	-	-	-	-	1	-	-	-	-
B2-8	1	1	-	-	-	-	-	1	-	-	-	-
B2-9	1	1	-	-	-	-	-	1	-	-	-	-
B2-10	1	1	-	-	-	-	-	1	-	-	-	-
B2-11	7	3	-	3	-	-	-	-	-	-	-	4
B1-3	7	3	-	3	-	-	-	-	-	-	-	4
B1-2	7	3	-	3	-	-	-	-	-	-	-	4
B3-1	7	3	-	3	-	-	-	-	-	-	-	4
A2-4	1	1	-	-	-	-	-	1	-	-	-	-
A2-3	1	1	-	-	-	-	-	1	-	-	-	-
A2-2	1	1	-	-	-	-	-	1	-	-	-	-
A2-1	1	1	-	-	-	-	-	1	-	-	-	-
A1-5	1	1	-	-	-	-	-	1	-	-	-	-
A1-6	1	1	-	-	-	-	-	1	-	-	-	-
A1-4	4	3	-	3	-	-	-	-	-	-	-	1
A1-3	7	3	-	3	-	-	-	-	-	-	-	4
A1-2	6	3	3	3	-	-	-	-	-	-	-	-
A1-1	4	3	-	3	-	-	-	-	-	-	-	1
B1-1	7	3	-	3	-	-	-	-	-	-	-	4



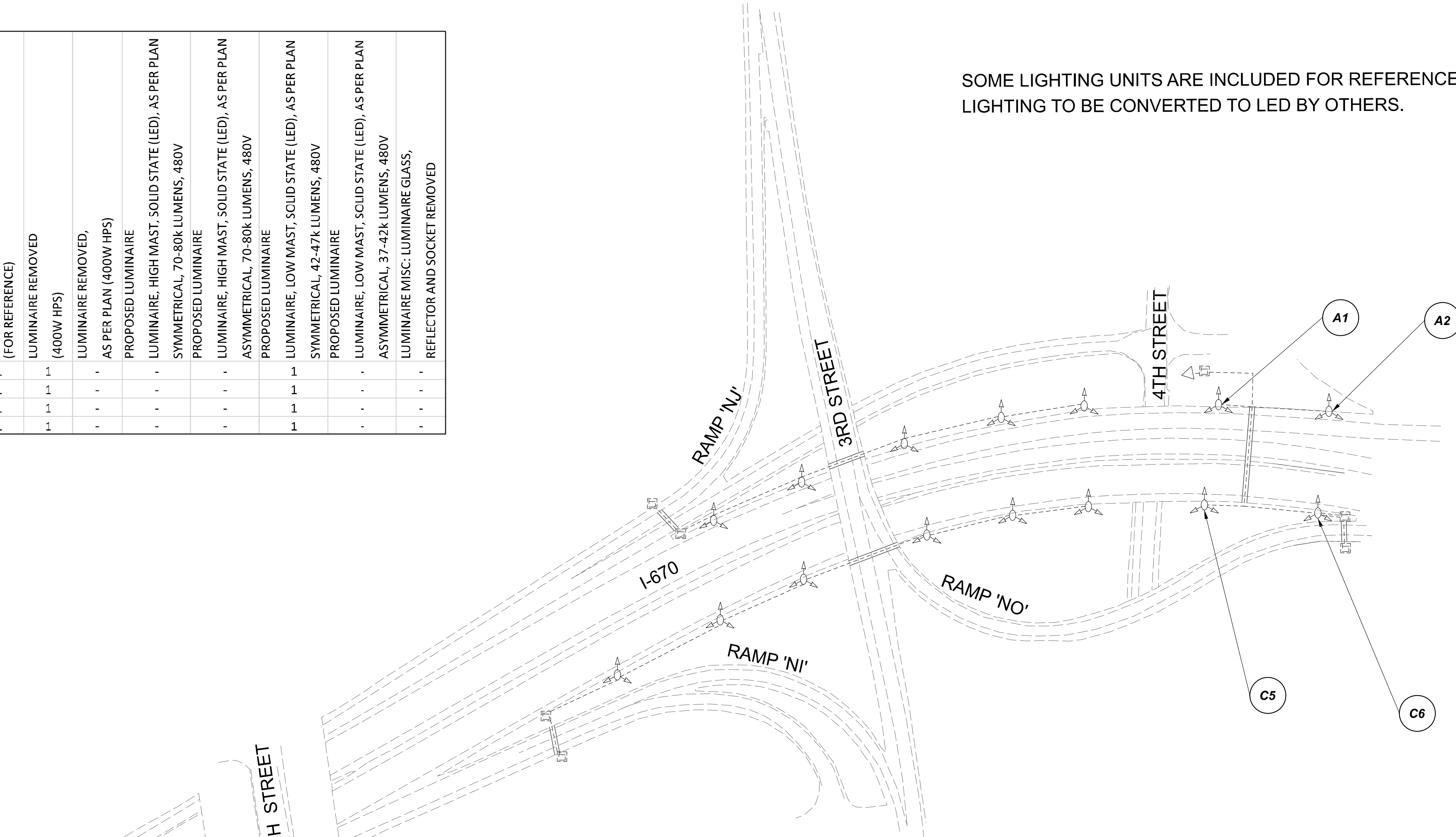
Lighting Plan - Location 90  
I-71 and I-670

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.168	197

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/1/2022 TIME: 1:34:40 PM USER: vjgurteas  
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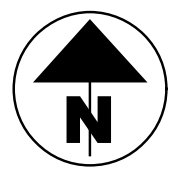
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	1	1	-	-	-	-	-	-	1	-	-	-
A2	1	1	-	-	-	-	-	-	1	-	-	-
C5	1	1	-	-	-	-	-	-	1	-	-	-
C6	1	1	-	-	-	-	-	-	1	-	-	-



SOME LIGHTING UNITS ARE INCLUDED FOR REFERENCE ONLY.  
 LIGHTING TO BE CONVERTED TO LED BY OTHERS.

**LEGEND**


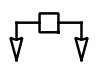
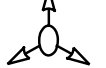
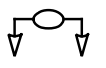
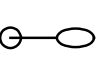


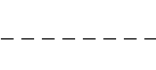
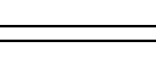

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

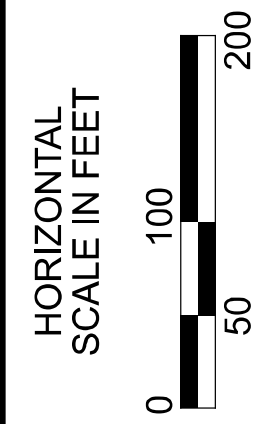
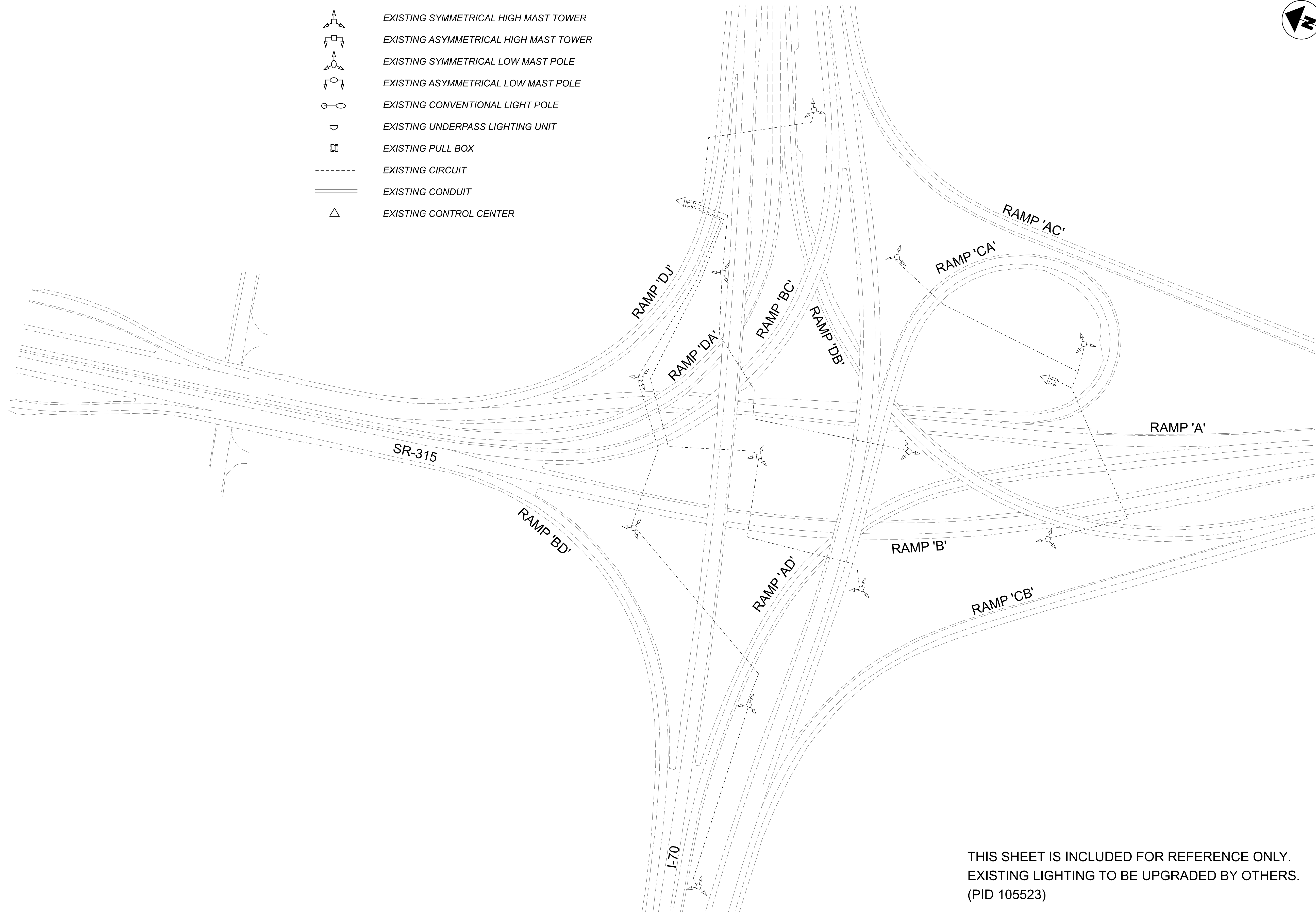


Lighting Plan - Location 91  
 I-670 - Park Street to North 4th Street

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.169	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 93  
 I-71 and S.R. 315

THIS SHEET IS INCLUDED FOR REFERENCE ONLY.  
 EXISTING LIGHTING TO BE UPGRADED BY OTHERS.  
 (PID 105523)

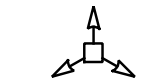
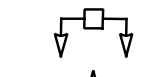
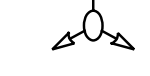




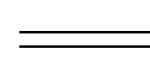


DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.170	197

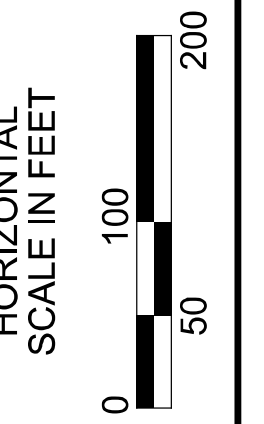
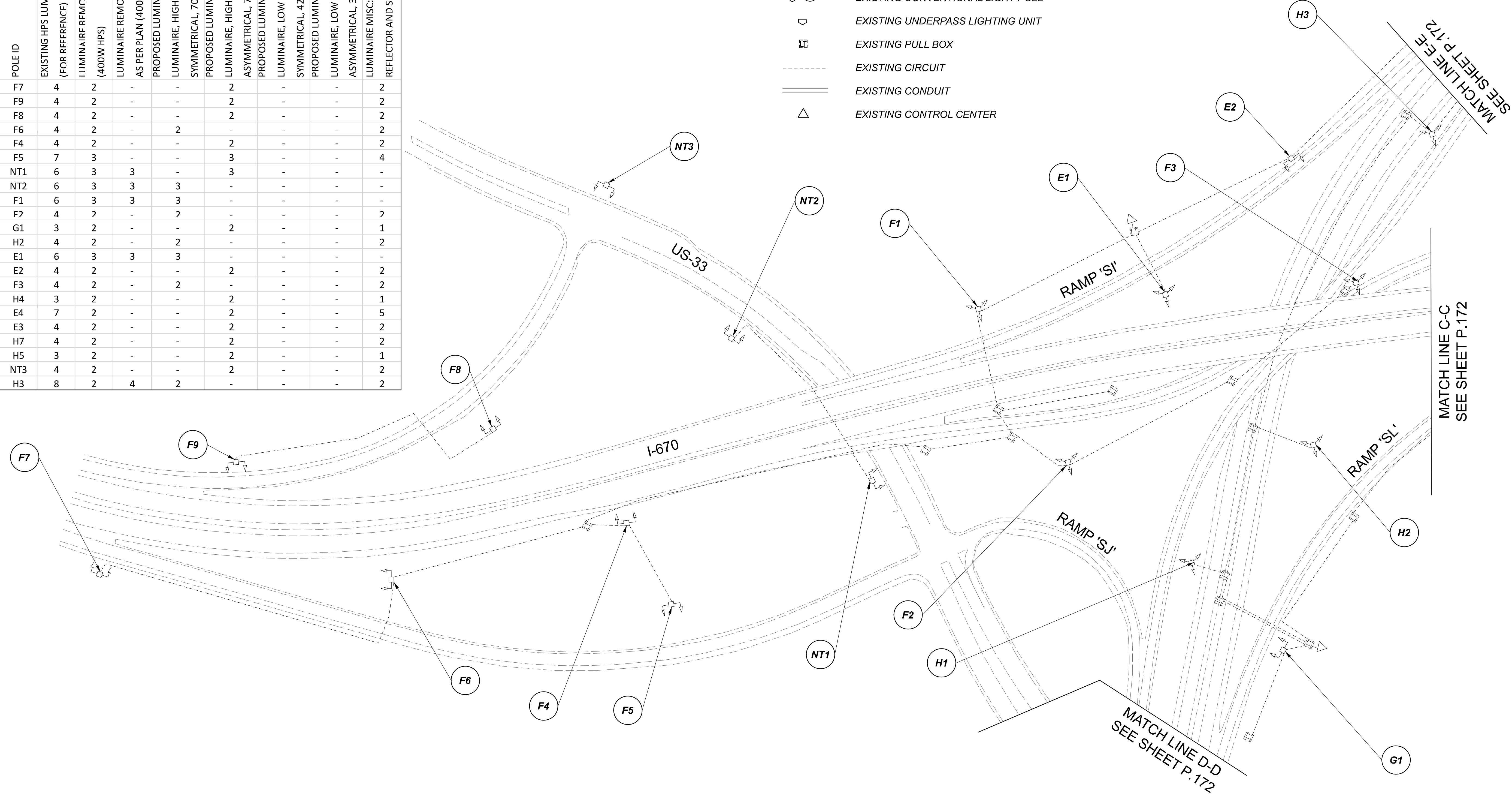
D06-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
F7	4	2	-	-	-	2	-	-	-	-	-	2
F9	4	2	-	-	-	2	-	-	-	-	-	2
F8	4	2	-	-	-	2	-	-	-	-	-	2
F6	4	2	-	2	-	-	-	-	-	-	-	2
F4	4	2	-	-	-	2	-	-	-	-	-	2
F5	7	3	-	-	-	3	-	-	-	-	-	4
NT1	6	3	3	-	-	3	-	-	-	-	-	-
NT2	6	3	3	3	-	-	-	-	-	-	-	-
F1	6	3	3	3	-	-	-	-	-	-	-	-
F2	4	2	-	2	-	-	-	-	-	-	-	2
G1	3	2	-	-	-	2	-	-	-	-	-	1
H2	4	2	-	2	-	-	-	-	-	-	-	2
E1	6	3	3	3	-	-	-	-	-	-	-	-
E2	4	2	-	-	-	2	-	-	-	-	-	2
F3	4	2	-	2	-	-	-	-	-	-	-	2
H4	3	2	-	-	-	2	-	-	-	-	-	1
E4	7	2	-	-	-	2	-	-	-	-	-	5
E3	4	2	-	-	-	2	-	-	-	-	-	2
H7	4	2	-	-	-	2	-	-	-	-	-	2
H5	3	2	-	-	-	2	-	-	-	-	-	1
NT3	4	2	-	-	-	2	-	-	-	-	-	2
H3	8	2	4	2	-	-	-	-	-	-	-	2

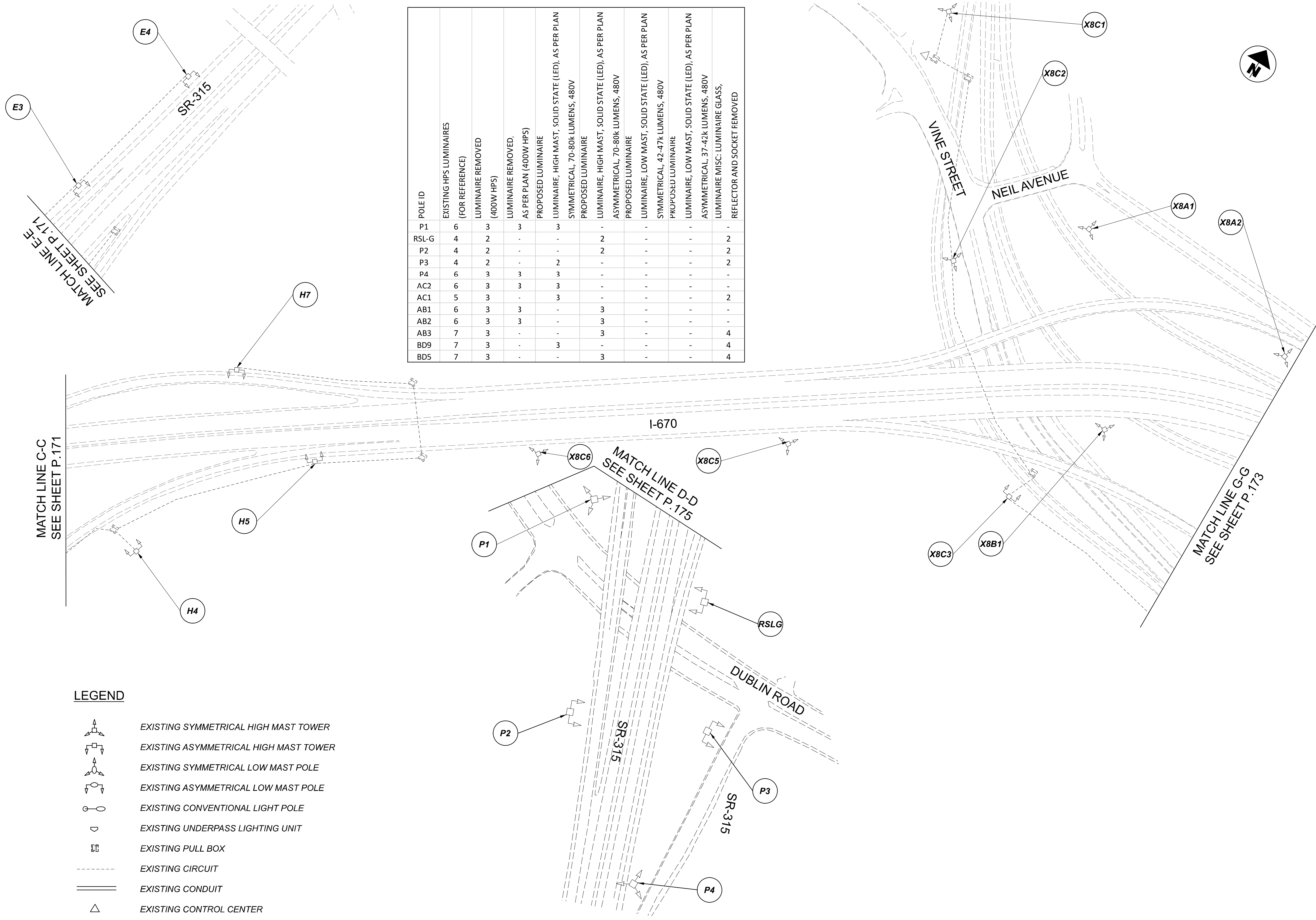
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER


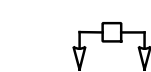

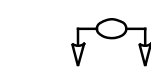
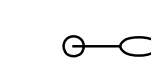
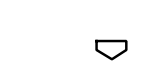

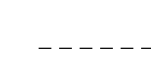
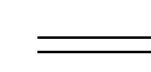



Lighting Plan - Location 95  
 I-671 and US-33

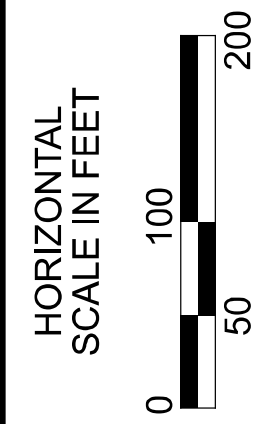
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.171	TOTAL 197



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
P1	6	3	3	3	-	-	-	-	-	-	-	-
RSL-G	4	2	-	-	-	2	-	-	-	-	2	-
P2	4	2	-	-	-	2	-	-	-	-	2	-
P3	4	2	-	2	-	-	-	-	-	-	2	-
P4	6	3	3	3	-	-	-	-	-	-	-	-
AC2	6	3	3	3	-	-	-	-	-	-	-	-
AC1	5	3	-	3	-	-	-	-	-	-	2	-
AB1	6	3	3	-	-	3	-	-	-	-	-	-
AB2	6	3	3	-	-	3	-	-	-	-	-	-
AB3	7	3	-	-	-	3	-	-	-	-	4	-
BD9	7	3	-	3	-	-	-	-	-	-	4	-
BD5	7	3	-	-	-	3	-	-	-	-	4	-

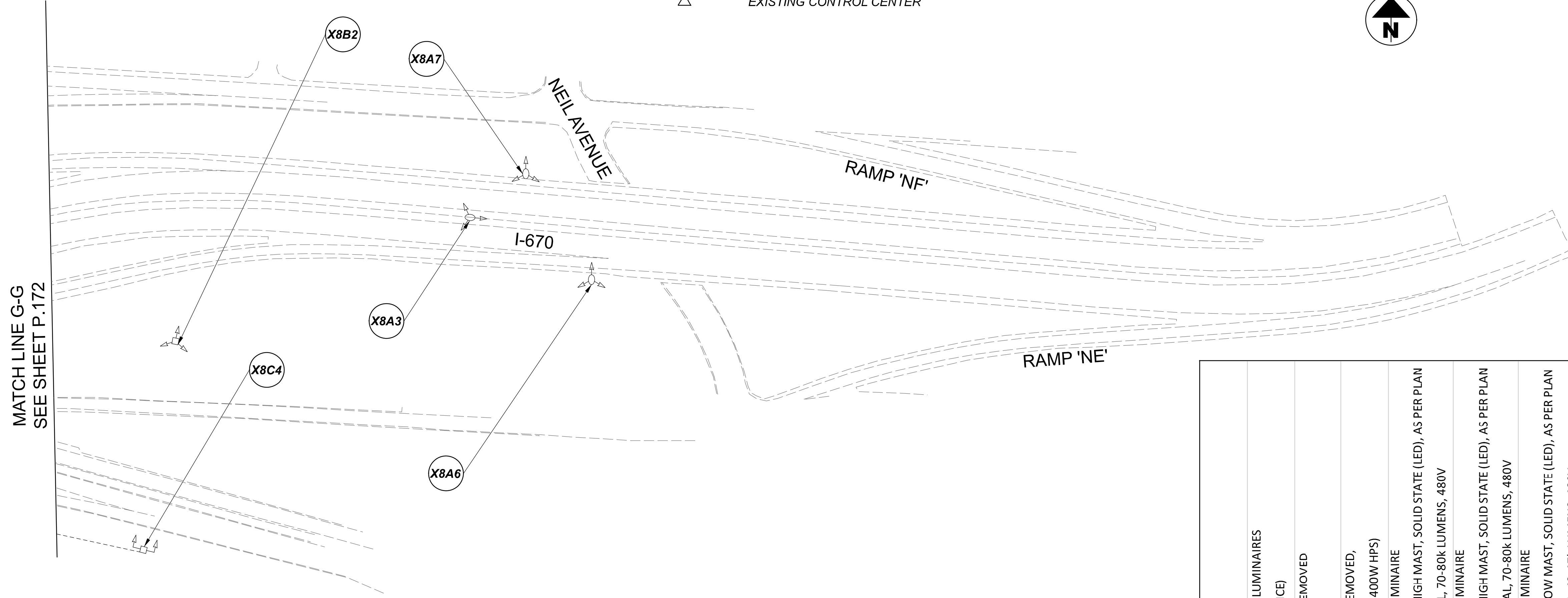


Lighting Plan - Location 96  
 S.R. 315 and US-33

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.172	197

D06-Lighting Upgrade FY2021

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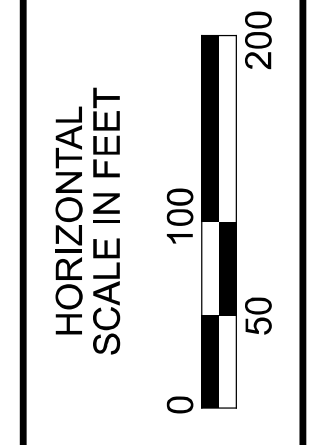


**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
X8A3	1	1	-	-	-	-	-	1	-	-	-	-
X8A7	1	1	-	-	-	-	-	1	-	-	-	-
X8A6	1	1	-	-	-	-	-	1	-	-	-	-
X8C6	8	4	4	4	4	-	-	-	-	-	-	-
X8C5	8	4	4	4	4	-	-	-	-	-	-	-
X8C4	4	2	-	-	2	-	-	-	-	-	2	-
X8C3	4	2	-	-	2	-	-	-	-	-	2	-
X8C2	6	3	3	3	3	-	-	-	-	-	-	-
X8B1	6	3	3	3	3	-	-	-	-	-	-	-
X8B2	8	4	4	4	4	-	-	-	-	-	-	-
X8A1	6	3	3	3	3	-	-	-	-	-	-	-
X8A2	6	3	3	3	3	-	-	-	-	-	-	-
X8C1	7	4	-	4	4	-	-	-	-	-	-	3

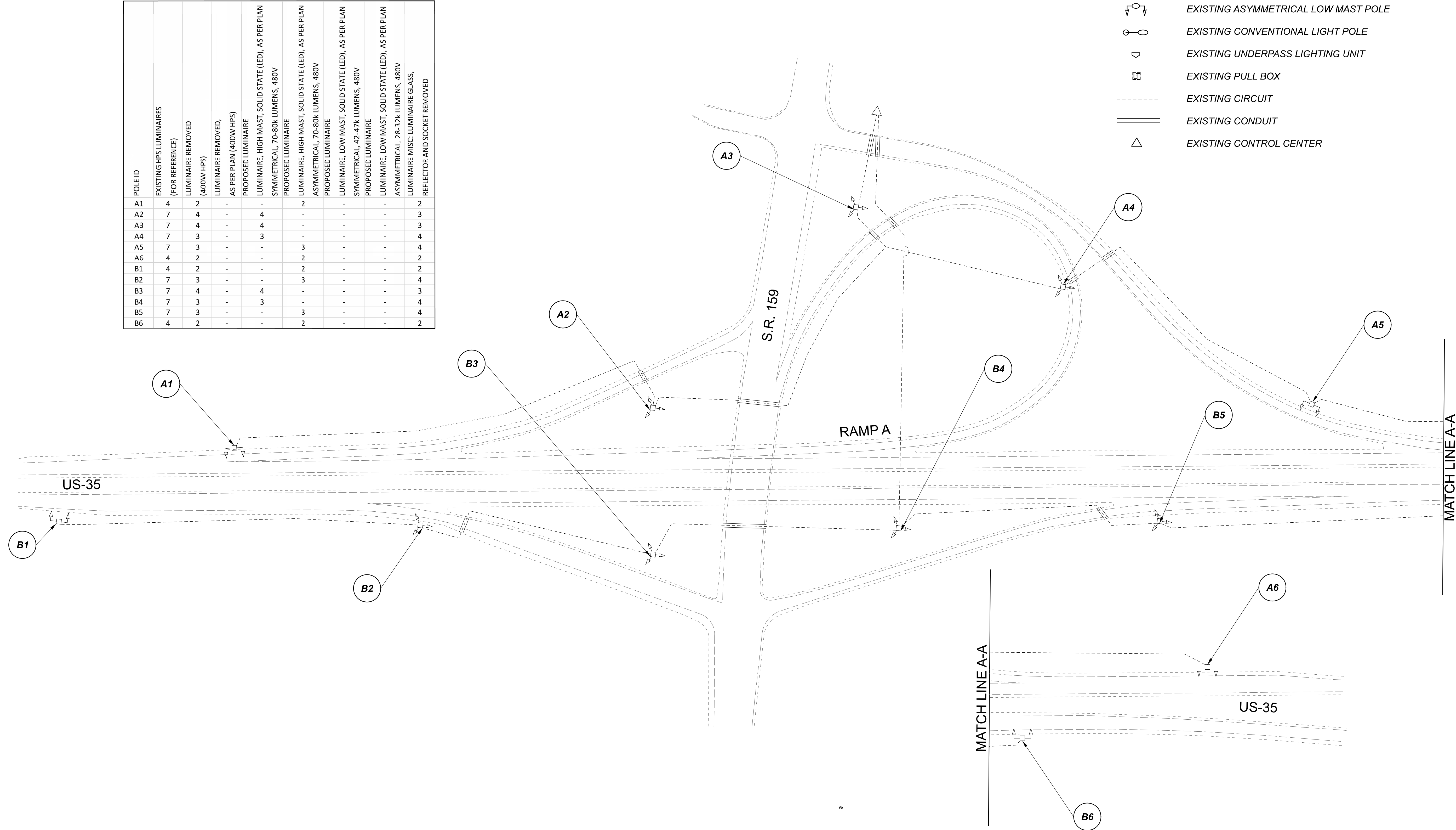


Lighting Plan - Location 97  
 I-670 - Park Street to Neil Avenue

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.173	197

D09-Lighting Upgrade FY2021

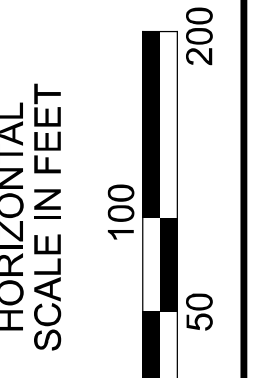
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	4	2	-	-	-	-	2	-	-	-	-	-	2	-	-	2
A2	7	4	-	-	4	-	3	-	-	-	-	-	3	-	-	3
A3	7	4	-	-	4	-	-	-	-	-	-	-	-	-	-	3
A4	7	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4
A5	7	3	-	-	-	-	3	-	-	-	-	-	-	-	-	4
A6	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
B1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
B2	7	3	-	-	-	-	3	-	-	-	-	-	-	-	-	4
B3	7	4	-	-	4	-	-	-	-	-	-	-	-	-	-	3
B4	7	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4
B5	7	3	-	-	-	-	3	-	-	-	-	-	-	-	-	4
B6	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 56  
US-35 and SR-159

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

1 1

SHEET TOTAL









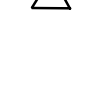

P.174 197

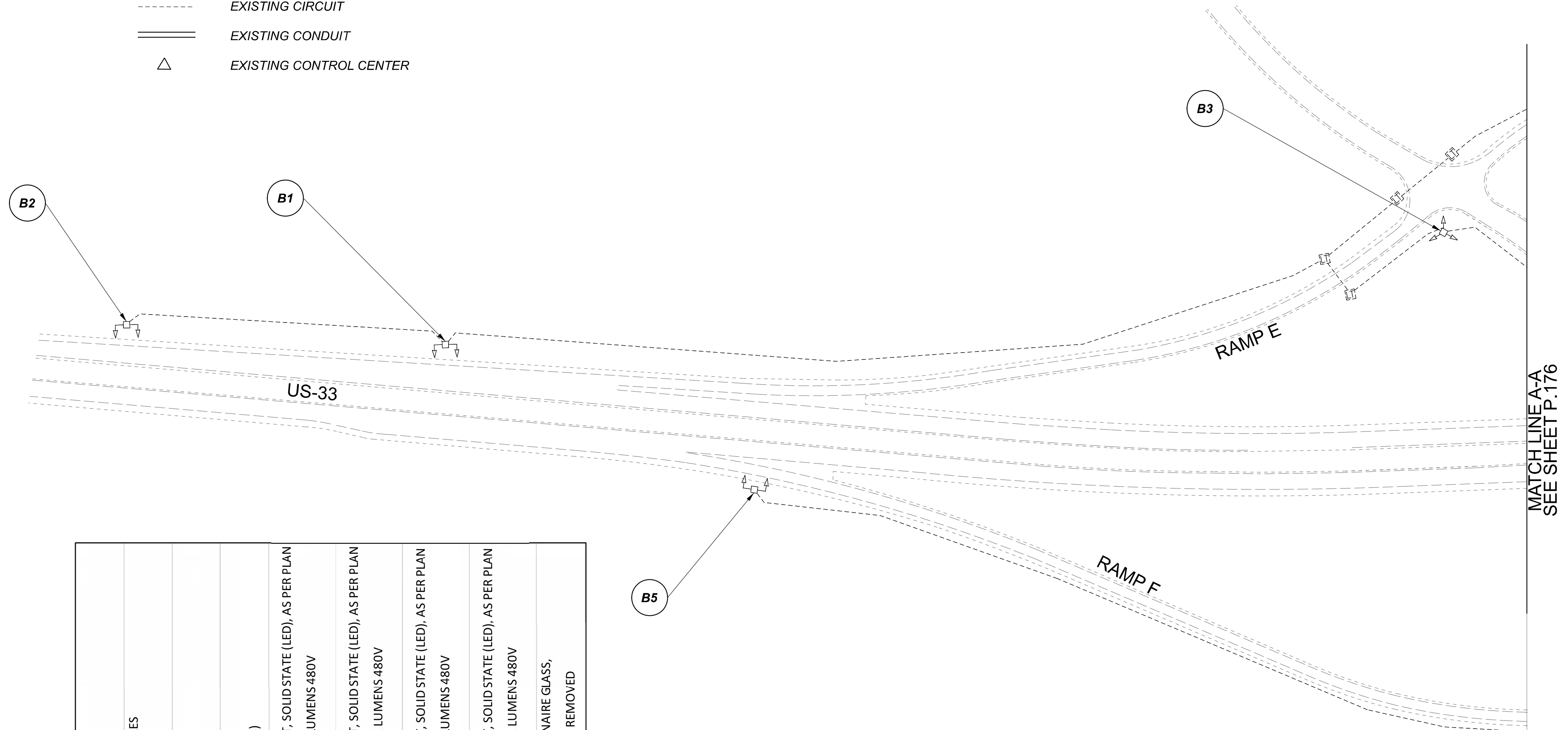


D10-Lighting Upgrade FY2021

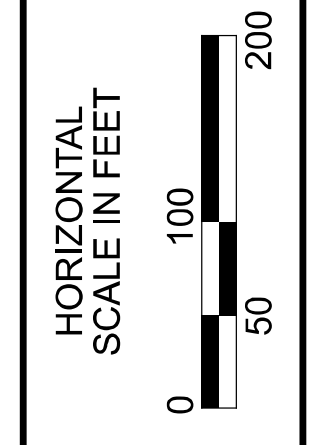
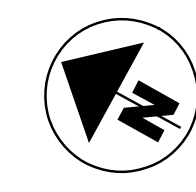
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-4	4	2	-	2	-	-	-	2
B-3	4	2	-	2	-	-	-	2
B-1	4	2	-	-	2	-	-	2
B-2	4	2	-	-	2	-	-	2
B-5	4	2	-	-	2	-	-	2
B-8	4	2	-	-	2	-	-	2
B-6	4	2	-	-	2	-	-	2
B-7	4	2	-	-	2	-	-	2



Lighting Plan - Location 57  
US-33 and SR-78

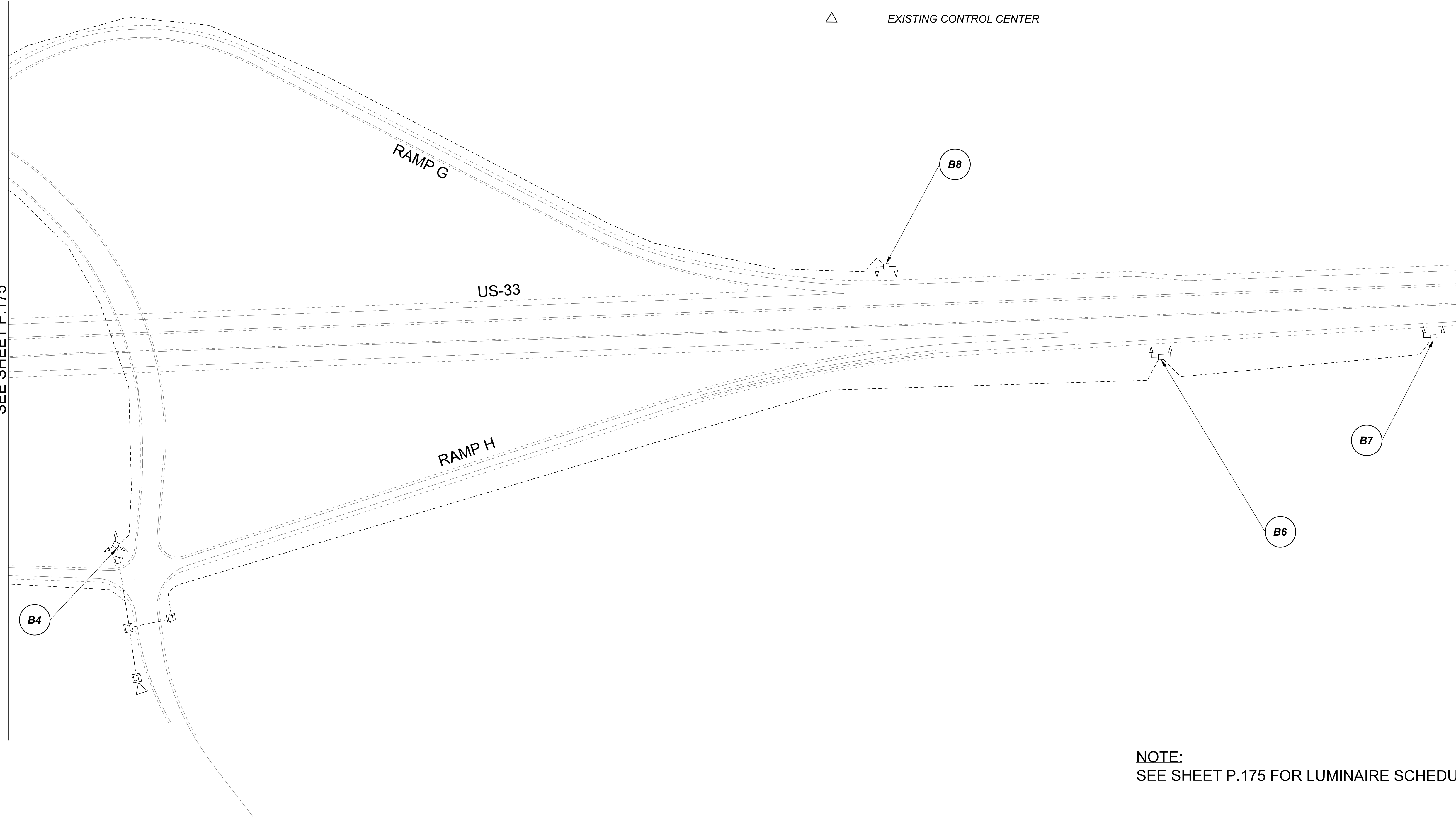
DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.175	197

MATCHLINE A-A  
SEE SHEET P.176

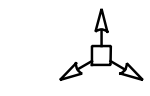
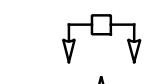
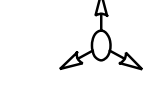
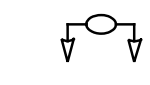
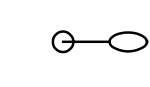


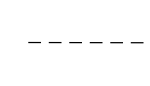
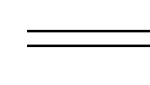

D10-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 1:40:31 PM USER: vnunez  
 p:\v\h\l\dot-pw\berriey\oam\h\dot-pw-02\Documents\A\Active Projects\Statewide\Statewide\Lighting\Sheets\12676\_L.P18.dgn

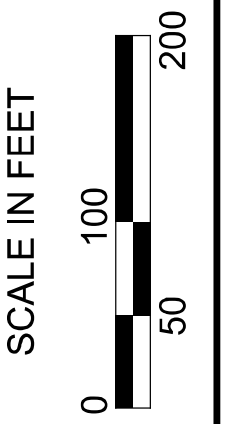
MATCH LINE A-A  
 SEE SHEET P.175



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
 SEE SHEET P.175 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 57  
 US-33 and SR-78

DESIGN AGENCY

**SINGH**  
 SINGH + ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

SUBSET	TOTAL
2	2


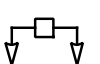
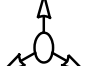
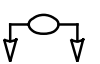
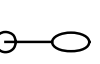



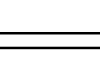

SHEET	TOTAL
P.176	197

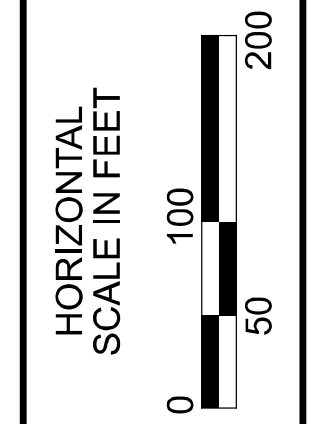
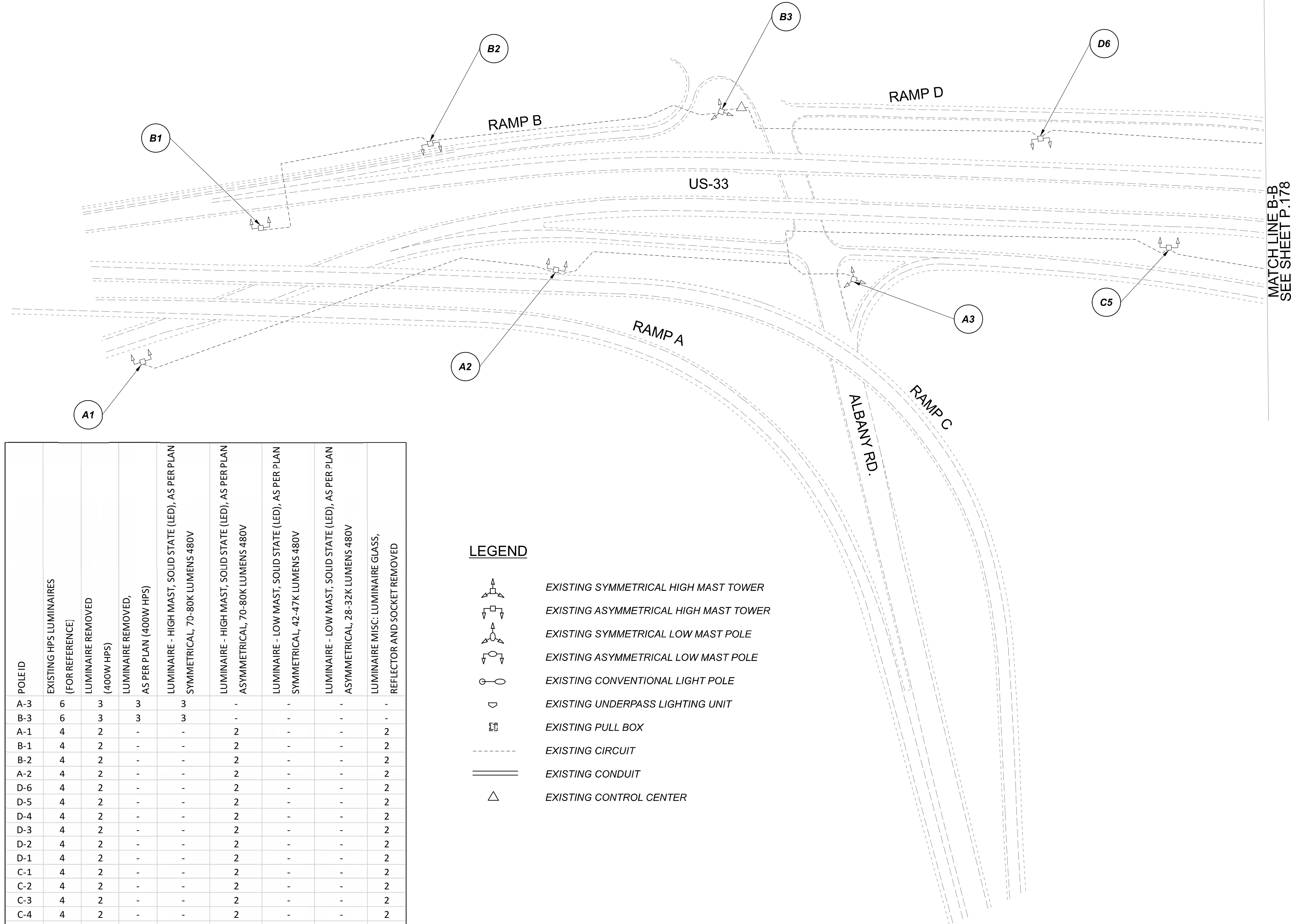
D10-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 14:03:41 PM USER: vnunez  
 p:\1\h10d01-pv-berriley-oomohodot-pv-02\Documents\10\Active Projects\Statewide\12676\101-Engineering\_Singh\Associates\Lighting\Sheets\12676-L1P17.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-3	6	3	3	3	-	-	-	-
B-3	6	3	3	3	-	-	-	-
A-1	4	2	-	-	2	-	-	2
B-1	4	2	-	-	2	-	-	2
B-2	4	2	-	-	2	-	-	2
A-2	4	2	-	-	2	-	-	2
D-6	4	2	-	-	2	-	-	2
D-5	4	2	-	-	2	-	-	2
D-4	4	2	-	-	2	-	-	2
D-3	4	2	-	-	2	-	-	2
D-2	4	2	-	-	2	-	-	2
D-1	4	2	-	-	2	-	-	2
C-1	4	2	-	-	2	-	-	2
C-2	4	2	-	-	2	-	-	2
C-3	4	2	-	-	2	-	-	2
C-4	4	2	-	-	2	-	-	2
C-5	4	2	-	-	2	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

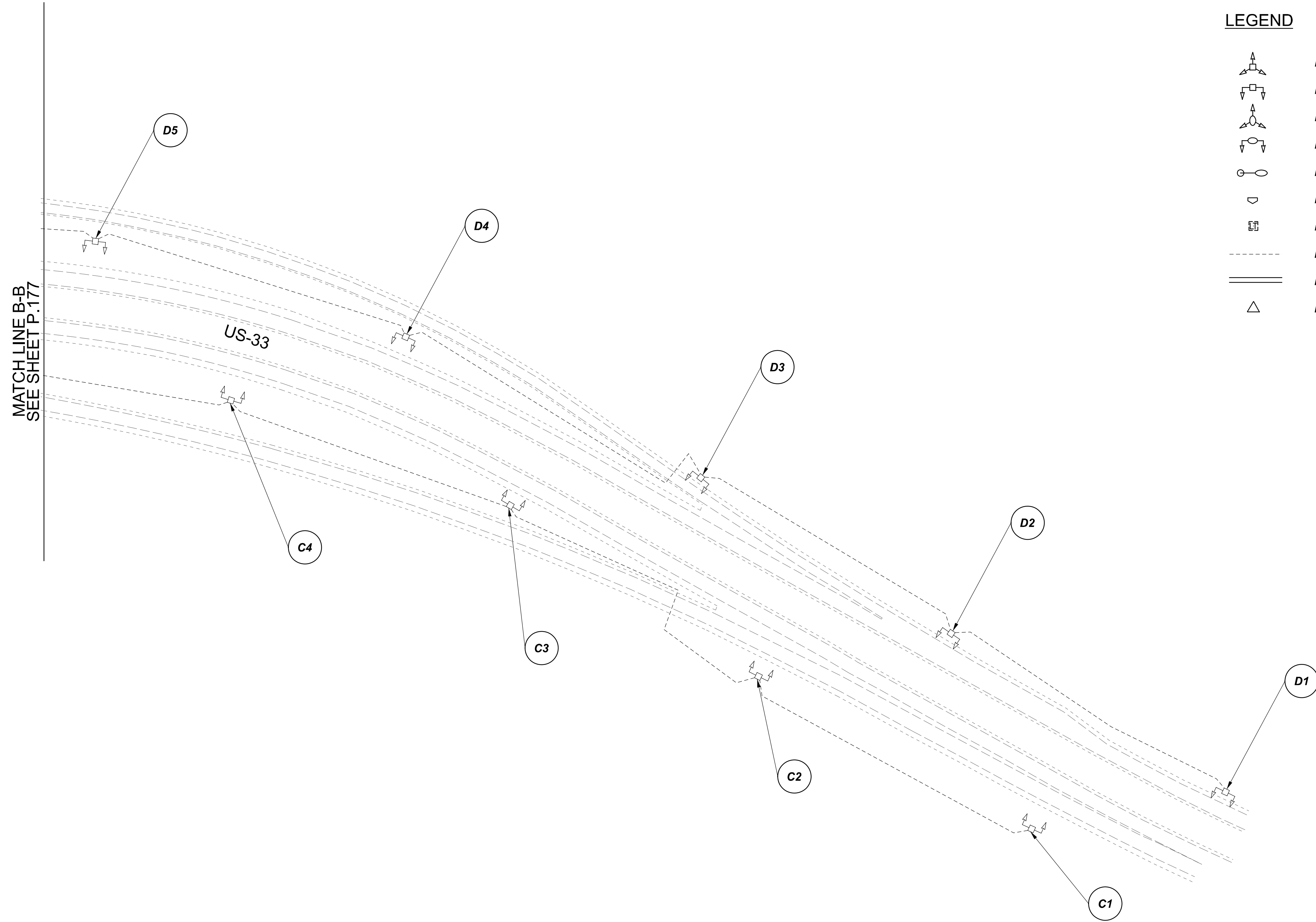


Lighting Plan - Location 58  
 US-33 and Richland Road

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.177	197

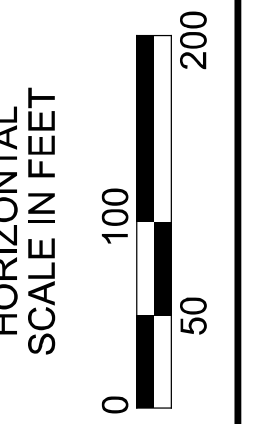
D10-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 1:40:53 PM USER: vnunez  
 p:\v\chloedot-pv\berriey\oamohodot-pv-02\Documents\Active Projects\Statewide\112676\101-Engineering\_Singh\Associates\Lighting\Sheets\112676\_L.P18.dgn



- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
  - EXISTING ASYMMETRICAL HIGH MAST TOWER
  - EXISTING SYMMETRICAL LOW MAST POLE
  - EXISTING ASYMMETRICAL LOW MAST POLE
  - EXISTING CONVENTIONAL LIGHT POLE
  - EXISTING UNDERPASS LIGHTING UNIT
  - EXISTING PULL BOX
  - EXISTING CIRCUIT
  - EXISTING CONDUIT
  - EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.177 FOR LUMINAIRE SCHEDULE



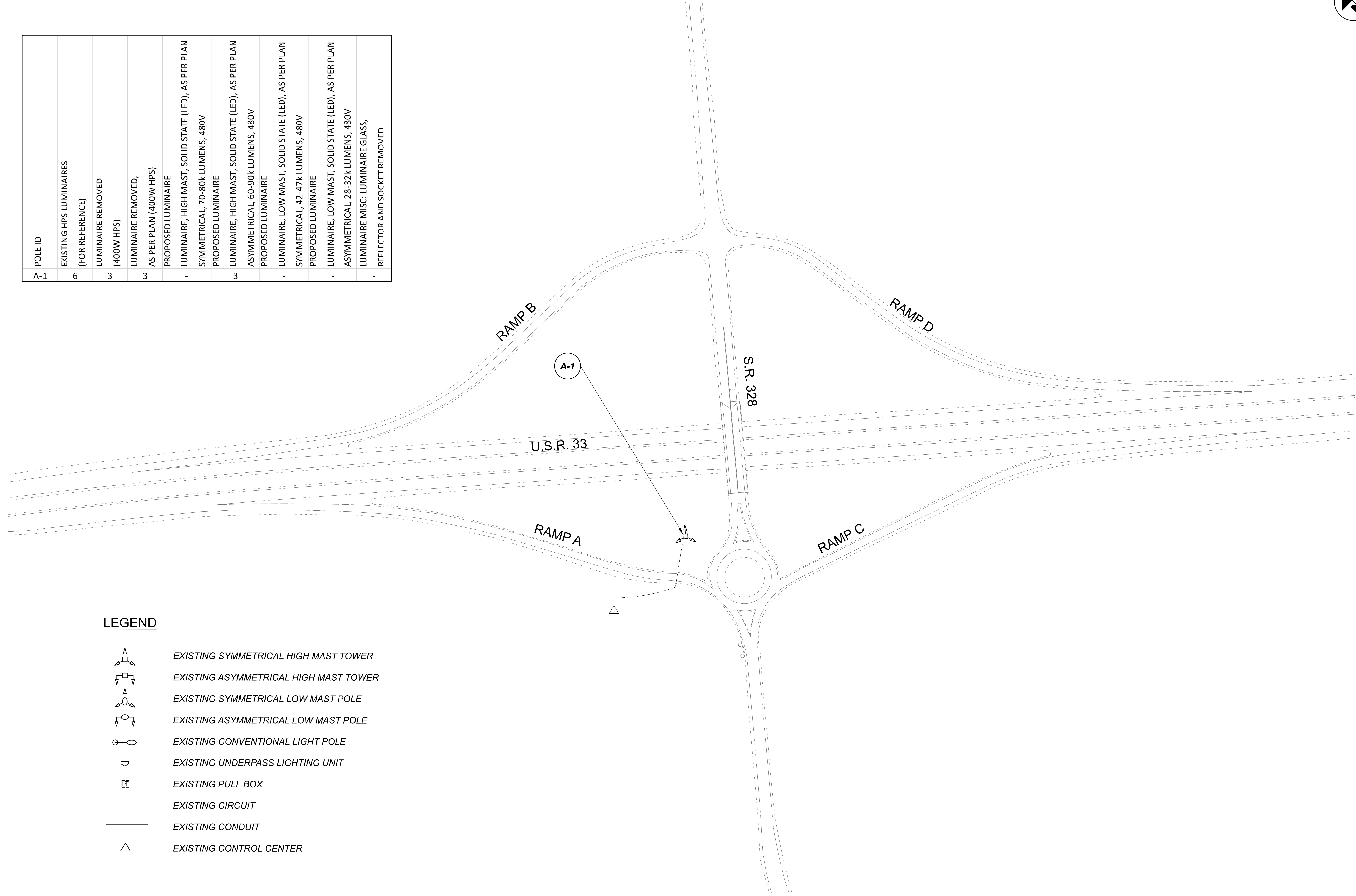
Lighting Plan - Location 58  
US-33 and Richland Road

DESIGN AGENCY	
<b>SINGH</b> <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.178	197

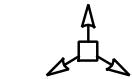
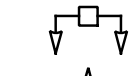
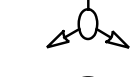



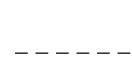
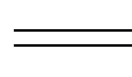
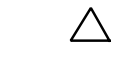

D10-Lighting Upgrade FY2021

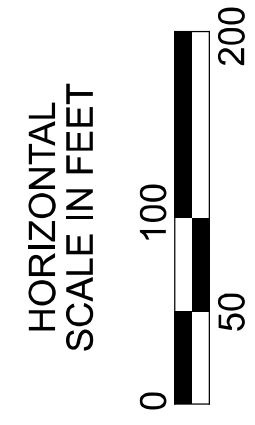
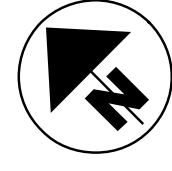
MODEL SHEET PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 14:06:56 PM USER: vnuñez  
 p:\v\h\l\dot-pw\berriey\oam\h\dot-pw-02\Documents\01\Active Projects\Statewide\Statewide\Lighting\Sheets\12676\_LPB.dgn

POLE ID	
A-1	EXISTING HPS LUMINAIRES (FOR REFERENCE)
3	LUMINAIRE REMOVED (400W HPS)
3	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)
	PROPOSED LUMINAIRE
1	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V
3	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-90k LUMENS, 480V
	PROPOSED LUMINAIRE
1	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V
	PROPOSED LUMINAIRE
1	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V
	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 59  
 US-33 and S.R. 328

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

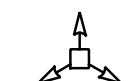
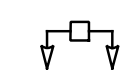
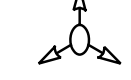
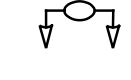
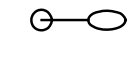
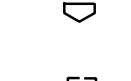

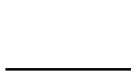


PROJECT ID

112676

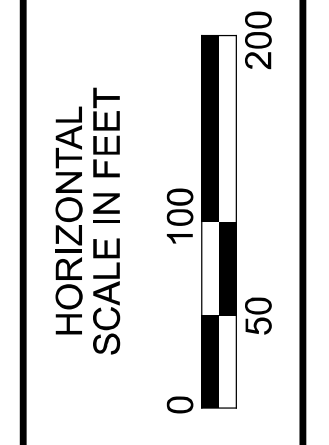
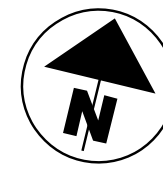
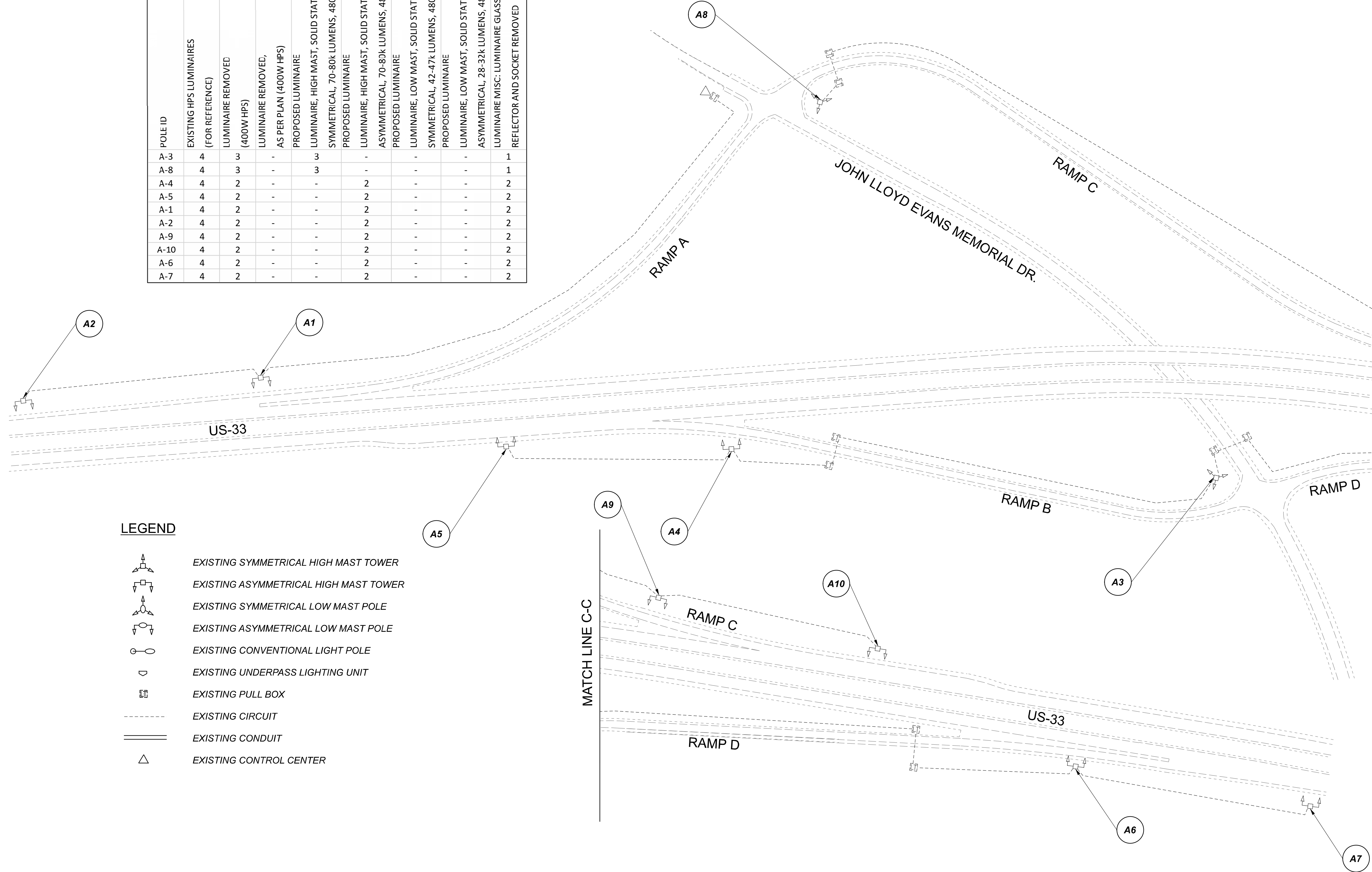
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.179	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

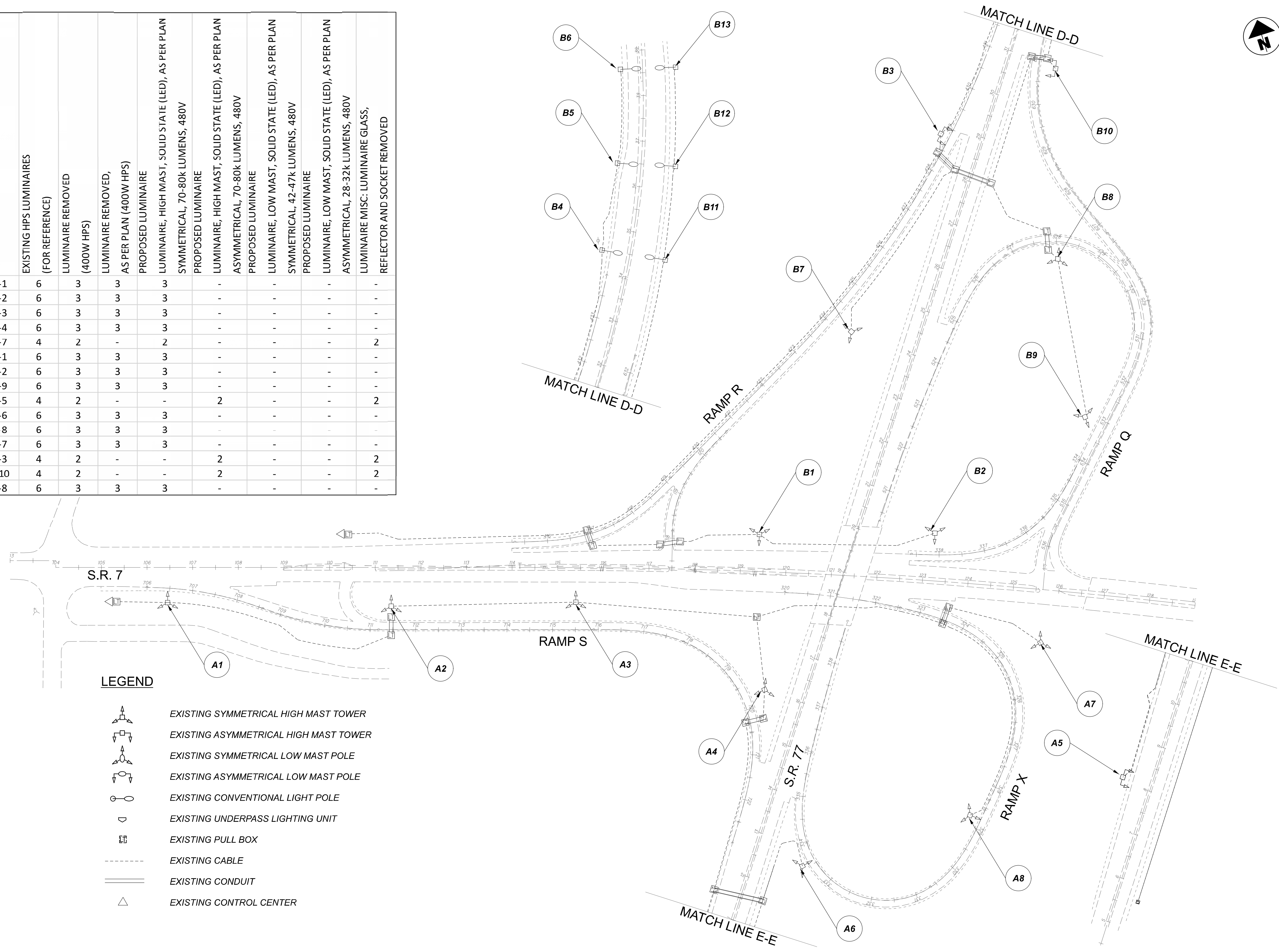
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-3	4	3	-	3	-	-	-	-	-	-	-	1
A-8	4	3	-	3	-	-	-	-	-	-	-	1
A-4	4	2	-	-	2	-	-	-	-	-	-	2
A-5	4	2	-	-	2	-	-	-	-	-	-	2
A-1	4	2	-	-	2	-	-	-	-	-	-	2
A-2	4	2	-	-	2	-	-	-	-	-	-	2
A-9	4	2	-	-	2	-	-	-	-	-	-	2
A-10	4	2	-	-	2	-	-	-	-	-	-	2
A-6	4	2	-	-	2	-	-	-	-	-	-	2
A-7	4	2	-	-	2	-	-	-	-	-	-	2



Lighting Plan - Location 62  
 US-33 and TR 346

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.180	
TOTAL	
197	

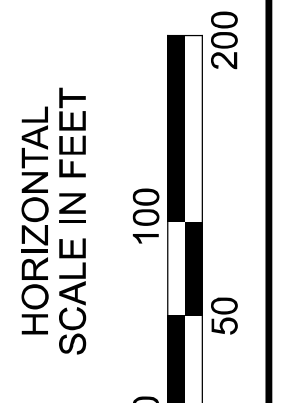
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	6	3	3		3								
A-2	6	3	3		3								
A-3	6	3	3		3								
A-4	6	3	3		3								
A-7	4	2	-		2							2	
B-1	6	3	3		3								
B-2	6	3	3		3								
B-9	6	3	3		3								
A-5	4	2	-			2							2
A-6	6	3	3		3								
A-8	6	3	3		3								
B-7	6	3	3		3								
B-3	4	2	-			2							2
B-10	4	2	-			2							2
B-8	6	3	3		3								



**LEGEND**

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

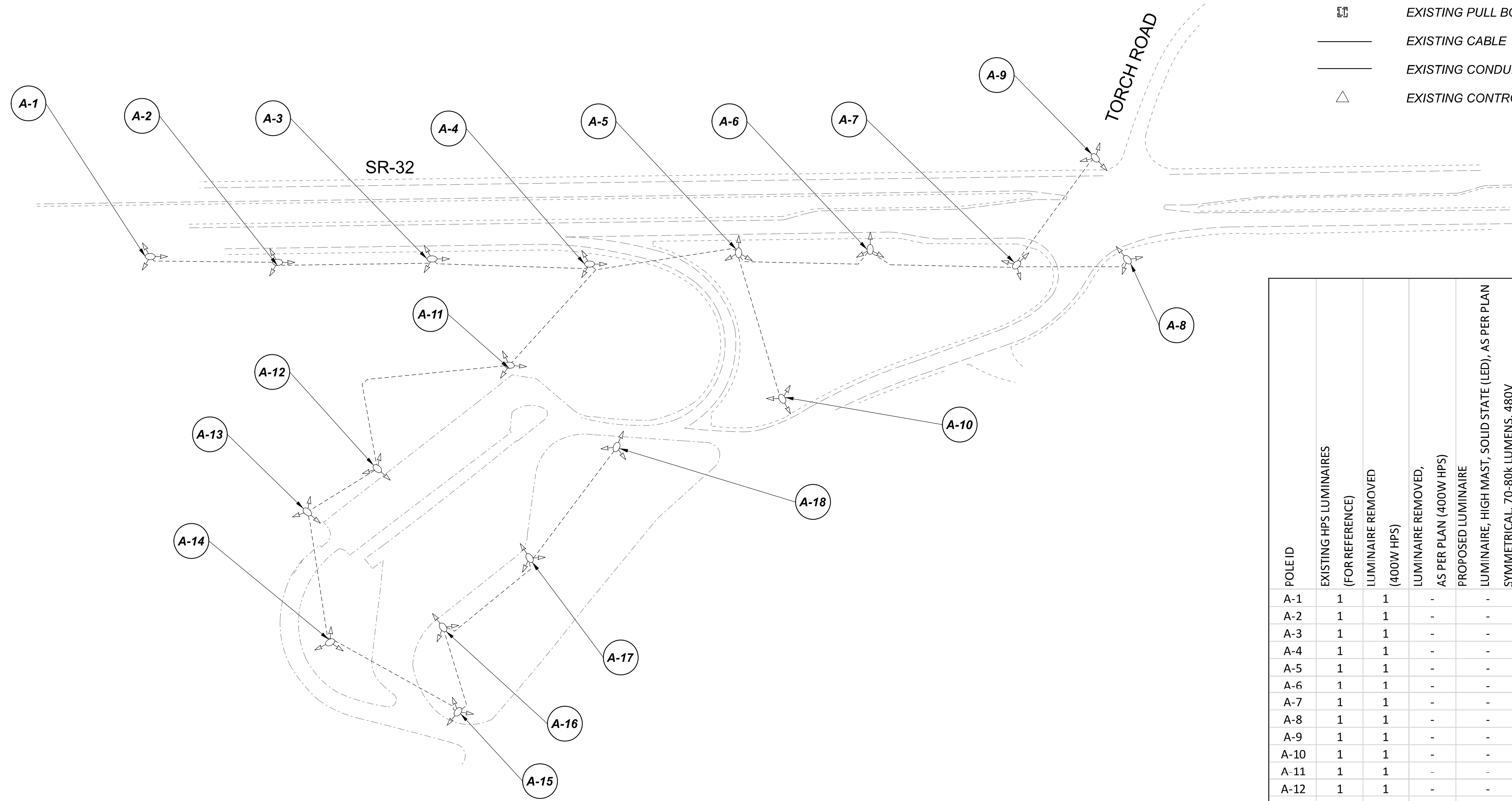
Lighting Plan - Location 63  
I-77 and SR-7



DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.181	197

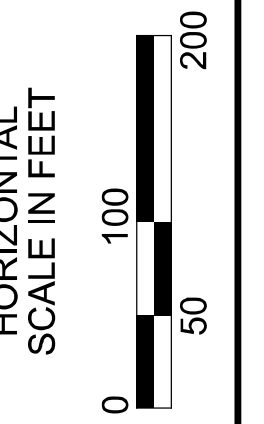
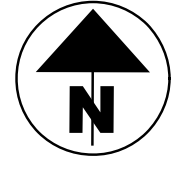
D10-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 1:44:49 PM USER: vnunes  
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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	1	-	-	-	-
A-2	1	1	-	-	-	-	-	1	-	-	-	-
A-3	1	1	-	-	-	-	-	1	-	-	-	-
A-4	1	1	-	-	-	-	-	1	-	-	-	-
A-5	1	1	-	-	-	-	-	1	-	-	-	-
A-6	1	1	-	-	-	-	-	1	-	-	-	-
A-7	1	1	-	-	-	-	-	1	-	-	-	-
A-8	1	1	-	-	-	-	-	1	-	-	-	-
A-9	1	1	-	-	-	-	-	1	-	-	-	-
A-10	1	1	-	-	-	-	-	1	-	-	-	-
A-11	1	1	-	-	-	-	-	1	-	-	-	-
A-12	1	1	-	-	-	-	-	1	-	-	-	-
A-13	1	1	-	-	-	-	-	1	-	-	-	-
A-14	1	1	-	-	-	-	-	1	-	-	-	-
A-15	1	1	-	-	-	-	-	1	-	-	-	-
A-16	1	1	-	-	-	-	-	1	-	-	-	-
A-17	1	1	-	-	-	-	-	1	-	-	-	-
A-18	1	1	-	-	-	-	-	1	-	-	-	-

Lighting Plan - Location 64  
Torch Road Rest Area

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

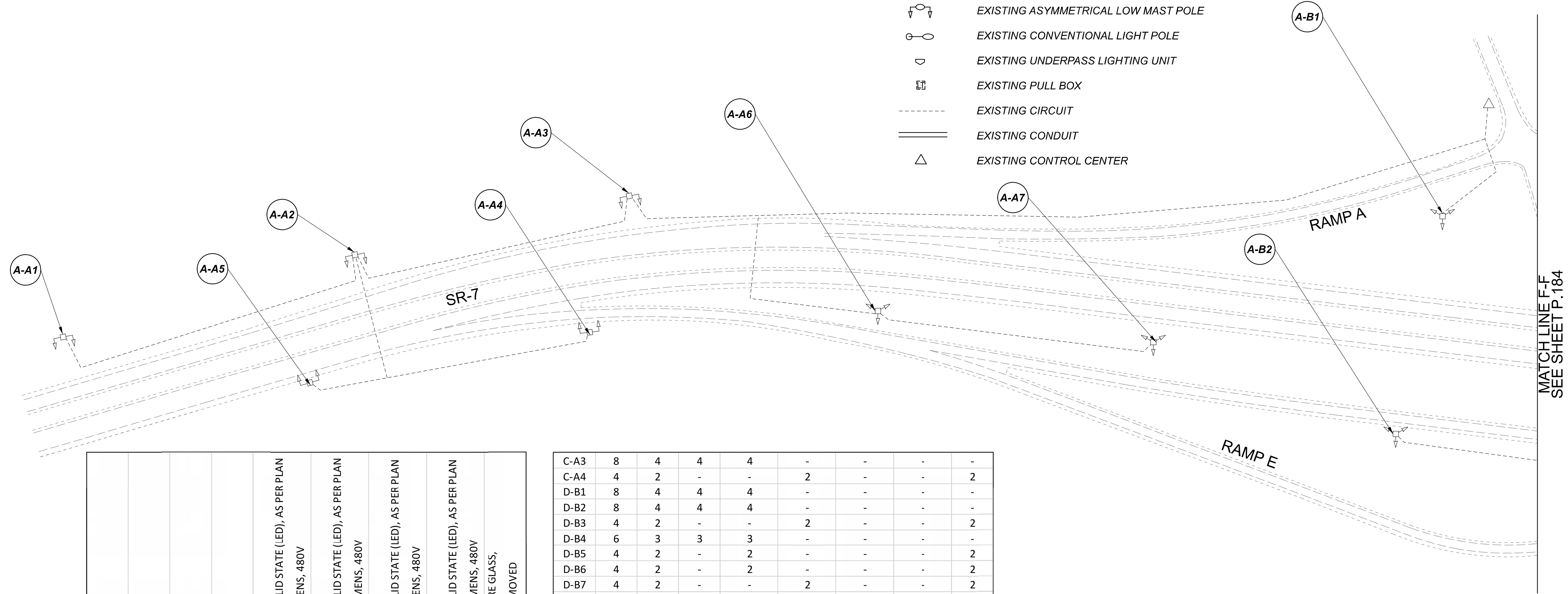
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.182	197



D10-Lighting Upgrade FY2021

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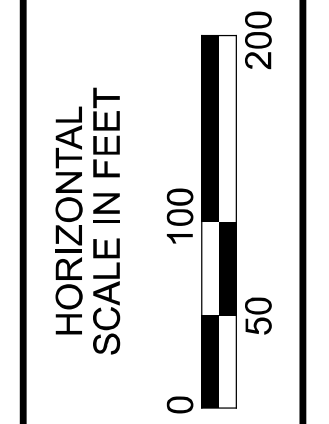


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-A1	4	2	-	-	2	-	-	-	-	-	2	-
A-A2	4	2	-	-	2	-	-	-	-	-	2	-
A-A3	4	2	-	-	2	-	-	-	-	-	2	-
A-A4	4	2	-	-	2	-	-	-	-	-	2	-
A-A5	4	2	-	-	2	-	-	-	-	-	2	-
A-A6	8	4	4	4	-	-	-	-	-	-	-	-
A-A7	8	4	4	4	-	-	-	-	-	-	-	-
A-B1	8	4	4	4	-	-	-	-	-	-	-	-
A-B2	8	4	4	4	-	-	-	-	-	-	-	-
A-B3	8	4	4	4	-	-	-	-	-	-	-	-
B-A1	8	4	4	4	-	-	-	-	-	-	-	-
B-A2	8	4	4	4	-	-	-	-	-	-	-	-
B-A3	8	4	4	4	-	-	-	-	-	-	-	-
B-A4	8	4	4	4	-	-	-	-	-	-	-	-
C-A1	8	4	4	4	-	-	-	-	-	-	-	-
C-A2	8	4	4	4	-	-	-	-	-	-	-	-

C-A3	8	4	4	4	-	-	-	-	-	-	-	-
C-A4	4	2	-	-	2	-	-	-	-	-	2	-
D-B1	8	4	4	4	-	-	-	-	-	-	-	-
D-B2	8	4	4	4	-	-	-	-	-	-	-	-
D-B3	4	2	-	-	2	-	-	-	-	-	2	-
D-B4	6	3	3	3	-	-	-	-	-	-	-	-
D-B5	4	2	-	2	-	-	-	-	-	-	2	-
D-B6	4	2	-	2	-	-	-	-	-	-	2	-
D-B7	4	2	-	-	2	-	-	-	-	-	2	-
D-B8	4	2	-	-	2	-	-	-	-	-	2	-
D-A1	8	4	4	4	-	-	-	-	-	-	-	-
D-A2	1	1	-	-	-	1	-	-	-	-	-	-
D-A3	1	1	-	-	-	1	-	-	-	-	-	-
D-A4	1	1	-	-	-	1	-	-	-	-	-	-
D-A5	1	1	-	-	-	1	-	-	-	-	-	-
D-A6	1	1	-	-	-	1	-	-	-	-	-	-
D-A7	1	1	-	-	-	1	-	-	-	-	-	-
D-A8	1	1	-	-	-	1	-	-	-	-	-	-
D-A9	1	1	-	-	-	1	-	-	-	-	-	-
D-A10	1	1	-	-	-	1	-	-	-	-	-	-
D-A11	1	1	-	-	-	1	-	-	-	-	-	-
D-A12	1	1	-	-	-	1	-	-	-	-	-	-
C-A5	1	1	-	-	-	1	-	-	-	-	-	-
C-A6	1	1	-	-	-	1	-	-	-	-	-	-
C-A7	1	1	-	-	-	1	-	-	-	-	-	-
C-A8	1	1	-	-	-	1	-	-	-	-	-	-
C-A9	1	1	-	-	-	1	-	-	-	-	-	-
C-A10	1	1	-	-	-	1	-	-	-	-	-	-

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

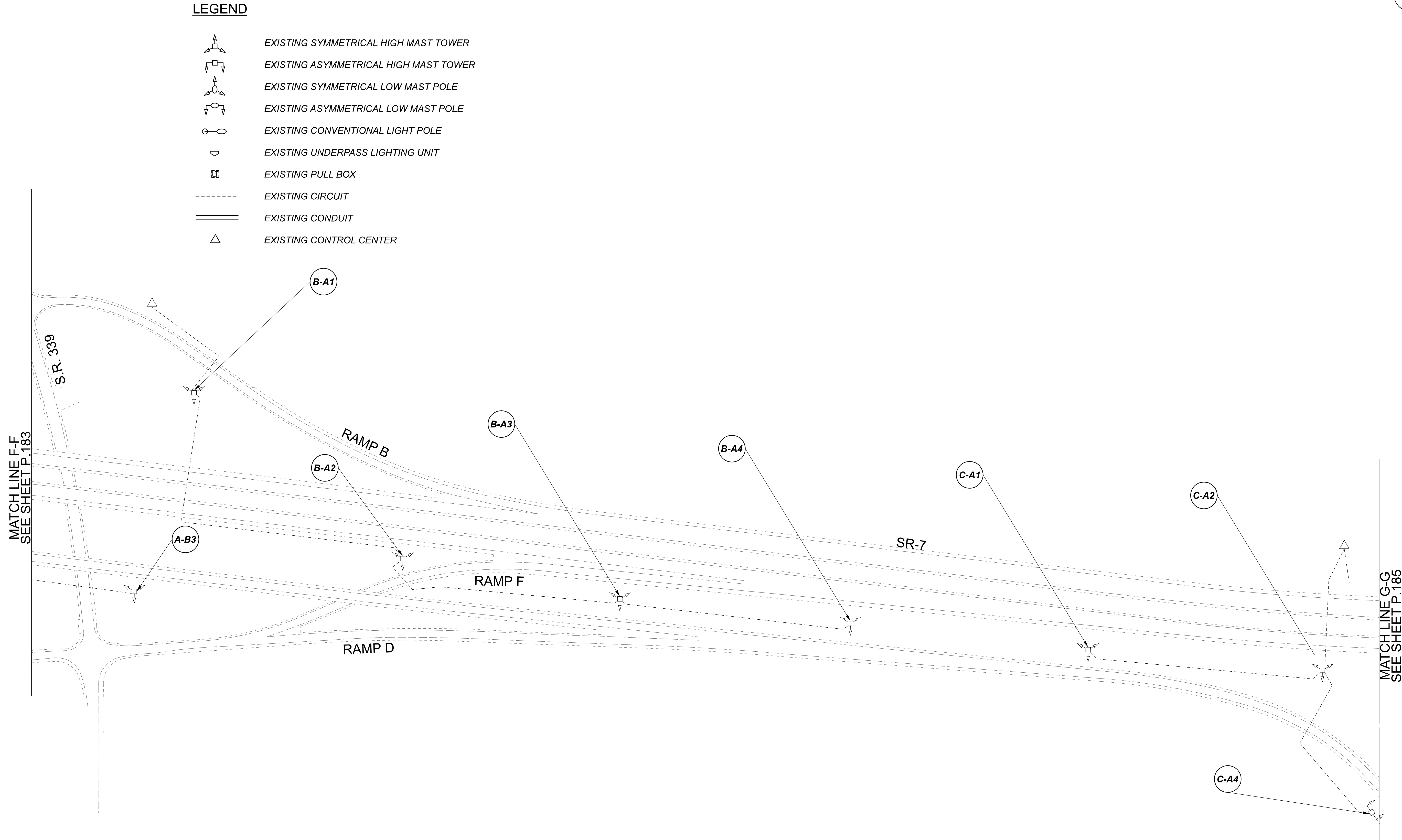


Lighting Plan - Location 65  
 SR-7 and US-50 / SR-339


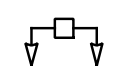
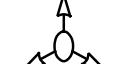
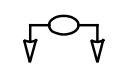
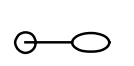


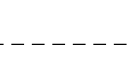
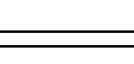

DESIGN AGENCY	<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN	
REVIEWER	SG 03/11/22	
PROJECT ID	112676	
SUBSET	TOTAL	
1	3	
SHEET	TOTAL	
P.183	197	

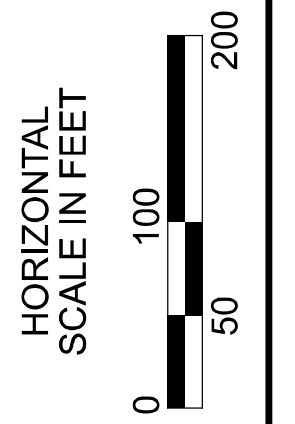
D10-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 65  
 SR-7#### / SR-339

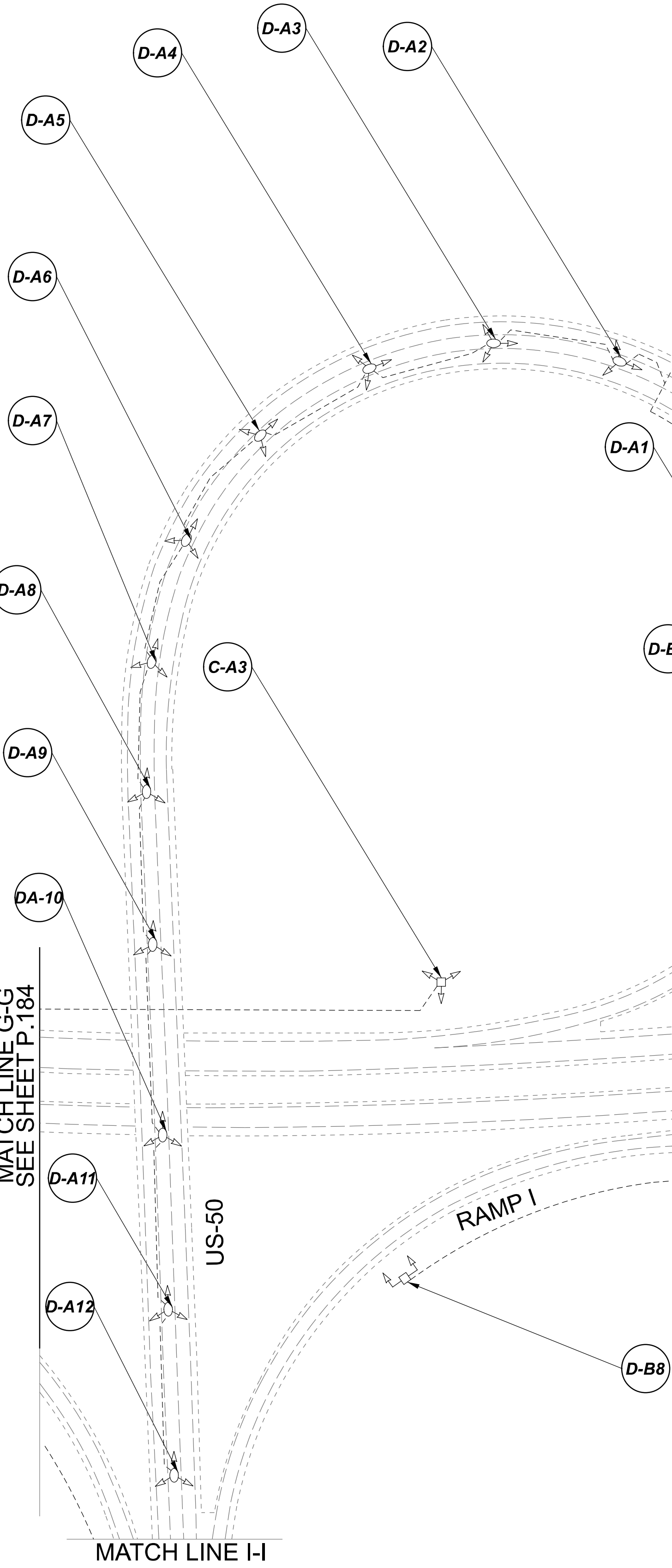
**NOTE:**  
 SEE SHEET P.183 FOR LUMINAIRE SCHEDULE

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	3
SHEET	
P.184	
TOTAL	
197	

D10-Lighting Upgrade FY2021

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MATCH LINE G-G  
 SEE SHEET P.184

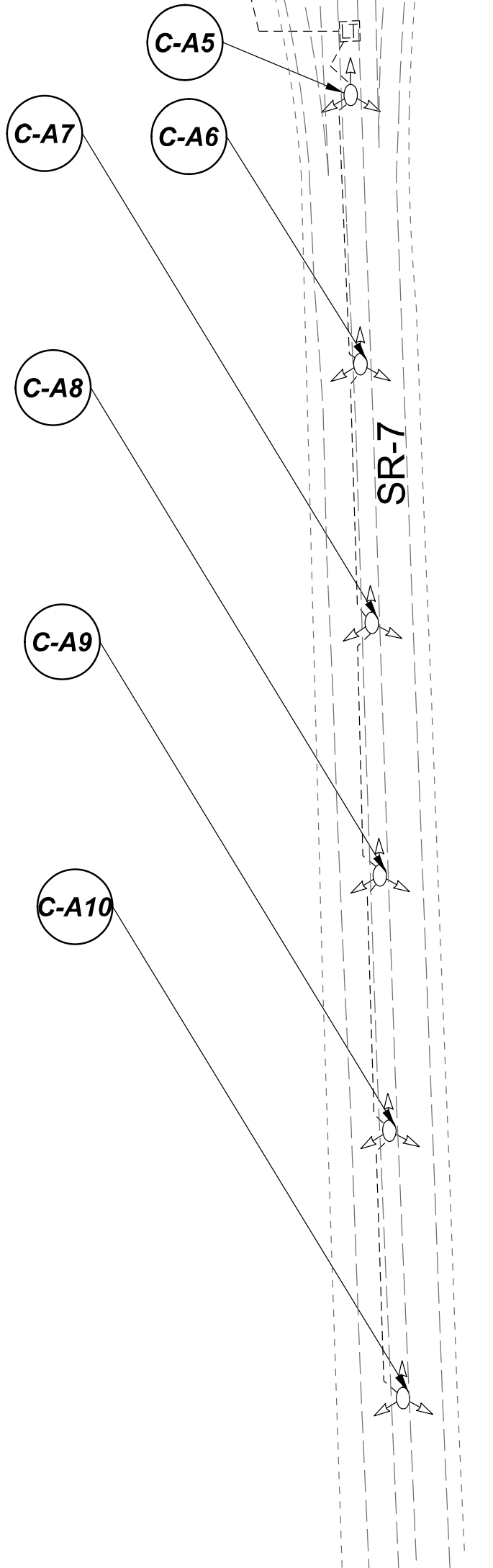


LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



MATCH LINE I-I



MATCH LINE H-H

NOTE:  
 SEE SHEET P.183 FOR LUMINAIRE SCHEDULE

Lighting Plan - Location 65  
 SR-7#### / SR-339

DESIGN AGENCY



DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676


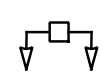
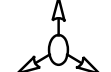
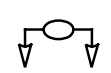
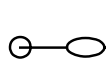



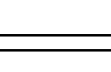

SUBSET	TOTAL
3	3

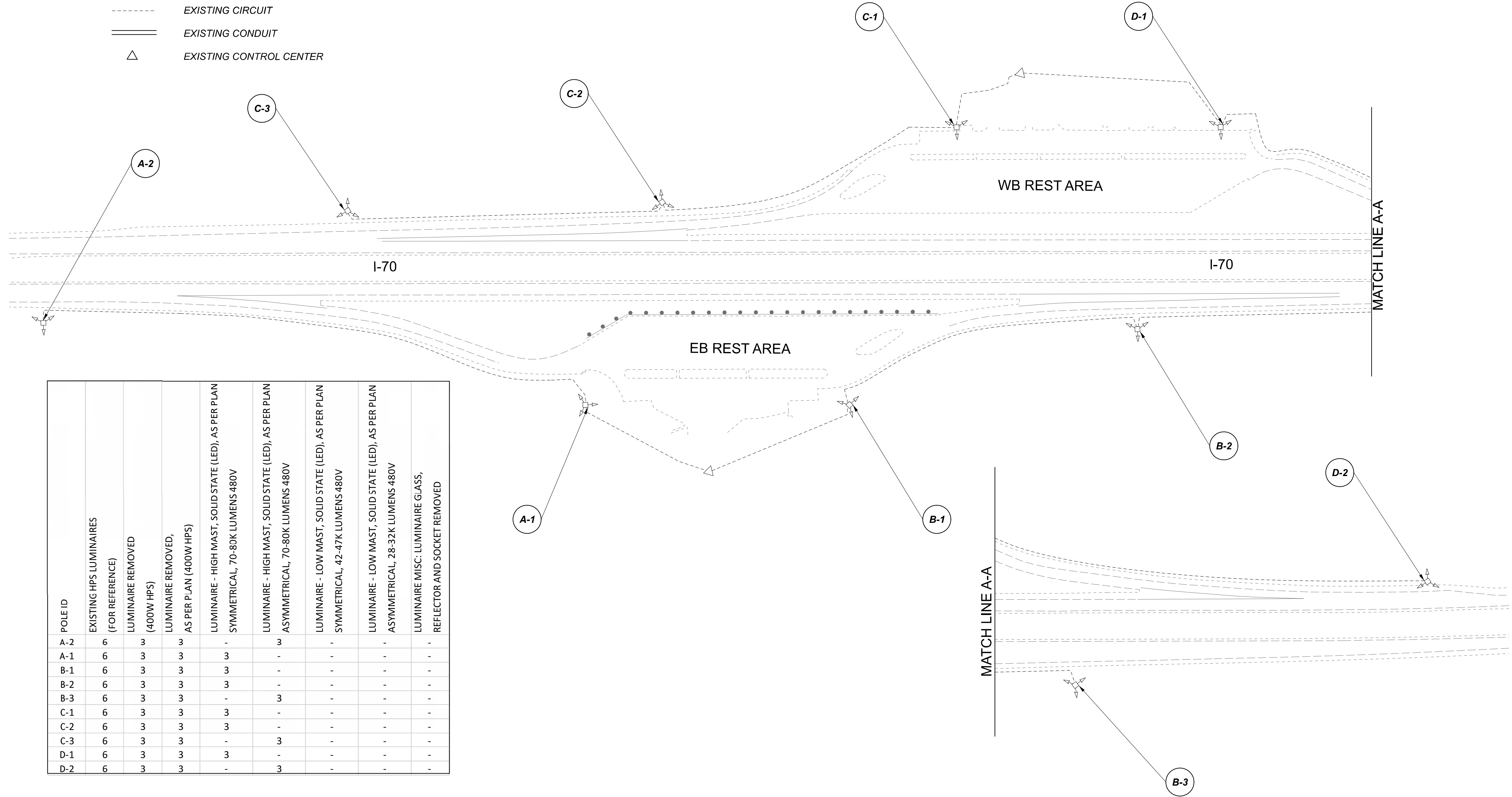
SHEET	TOTAL
P.185	197

D11-Lighting Upgrade FY2021

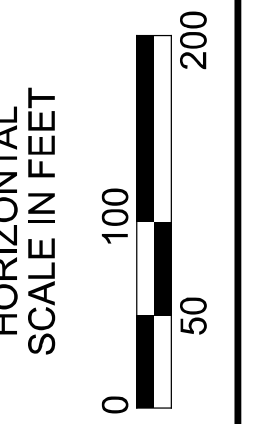
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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-2	6	3	3	-	-	-	-	-
A-1	6	3	3	3	-	-	-	-
B-1	6	3	3	3	-	-	-	-
B-2	6	3	3	3	-	-	-	-
B-3	6	3	3	-	3	-	-	-
C-1	6	3	3	3	-	-	-	-
C-2	6	3	3	3	-	-	-	-
C-3	6	3	3	-	3	-	-	-
D-1	6	3	3	3	-	-	-	-
D-2	6	3	3	-	3	-	-	-













Lighting Plan - Locations 66 & 67  
 I-70 WB & EB Rest Area

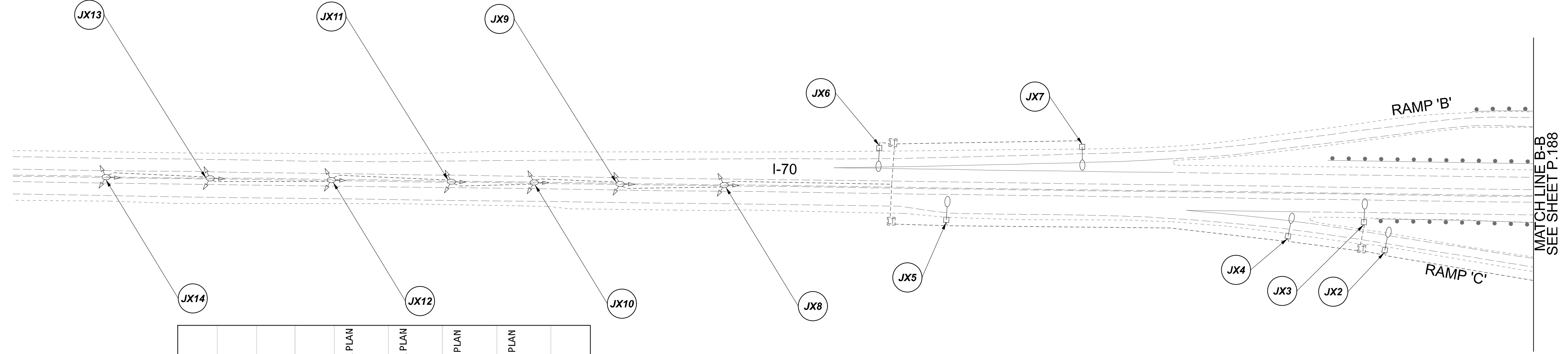
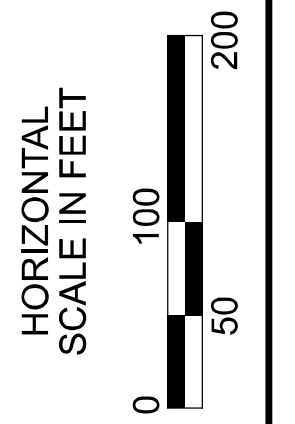
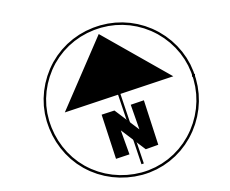
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.186	TOTAL 197

D11-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

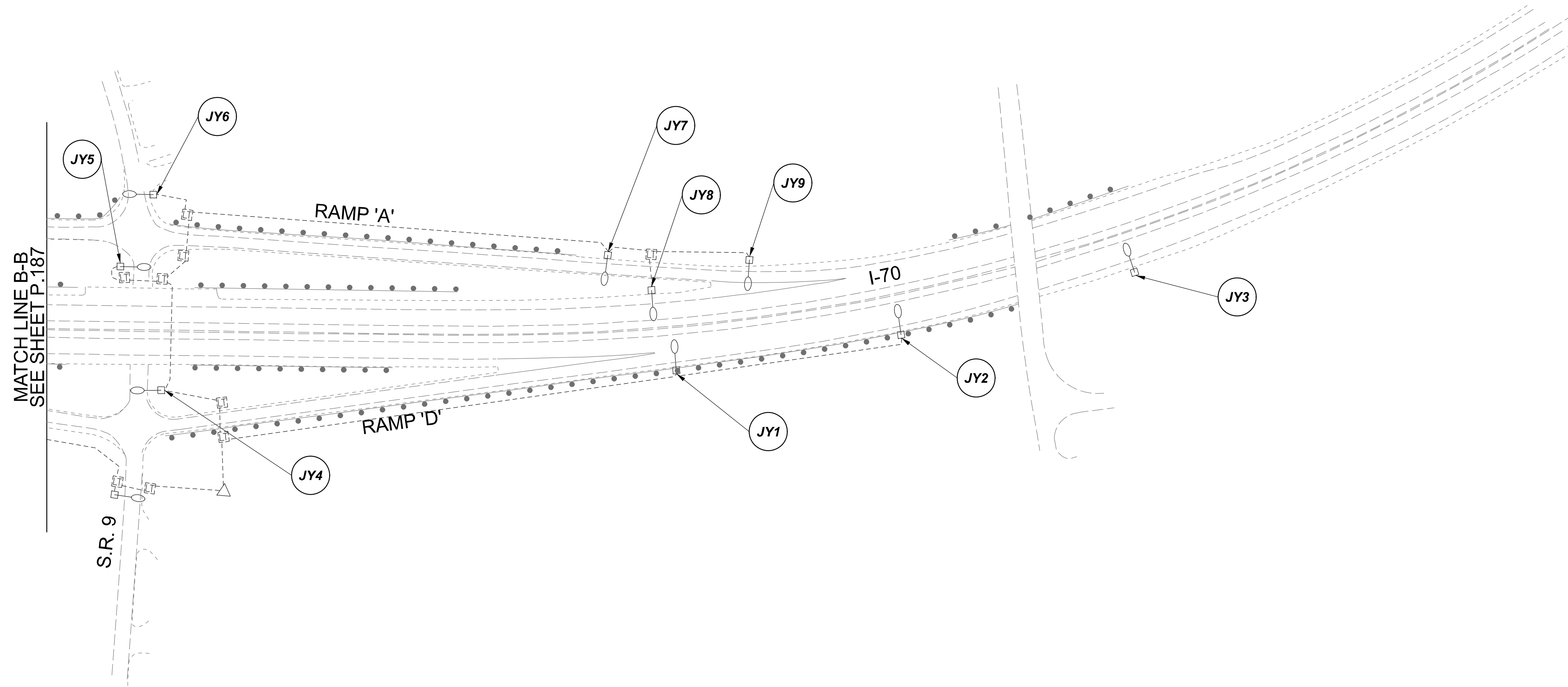


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
JX14	1	1	-	-	-	1	-	-
JX13	1	1	-	-	-	1	-	-
JX12	1	1	-	-	-	1	-	-
JX11	1	1	-	-	-	1	-	-
JX10	1	1	-	-	-	1	-	-
JX9	1	1	-	-	-	1	-	-
JX8	1	1	-	-	-	1	-	-











Lighting Plan - Location 68  
I-70 and S.R. 9

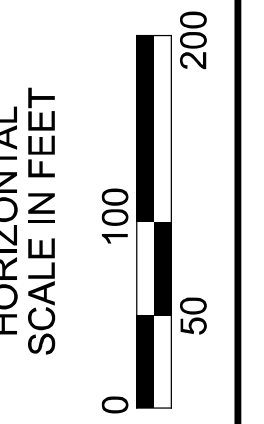
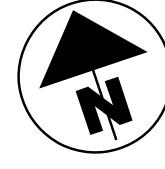
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.187	TOTAL 197

MATCH LINE B-B  
SEE SHEET P.188



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 68  
I-70 and S.R. 9

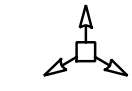
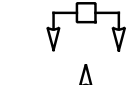
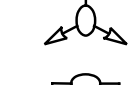




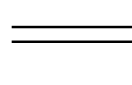


NOTE:  
SEE SHEET P.187 FOR LUMINAIRE SCHEDULE

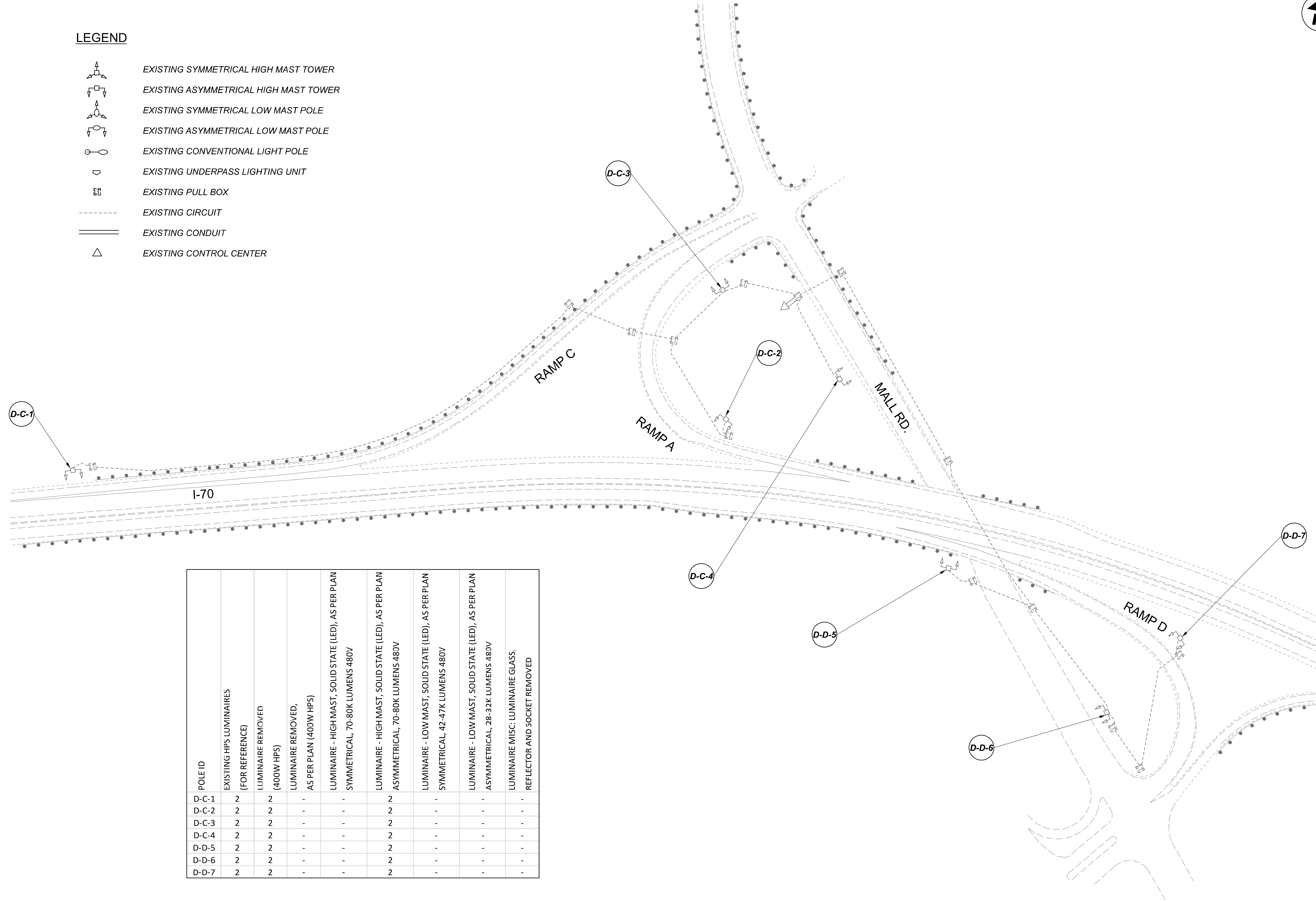
DESIGN AGENCY	
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.188	197

D11-Lighting Upgrade FY2021

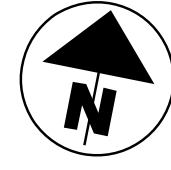
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
D-C-1	2	2	-	-	2	-	-	-
D-C-2	2	2	-	-	2	-	-	-
D-C-3	2	2	-	-	2	-	-	-
D-C-4	2	2	-	-	2	-	-	-
D-D-5	2	2	-	-	2	-	-	-
D-D-6	2	2	-	-	2	-	-	-
D-D-7	2	2	-	-	2	-	-	-



Lighting Plan - Location 69  
I-70 and Mall Road

DESIGN AGENCY



DESIGNER  
VN

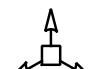
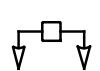
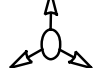
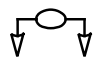
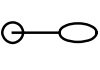


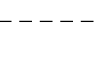
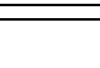

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

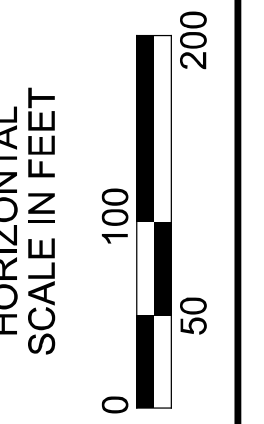
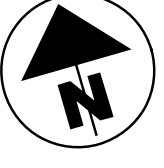
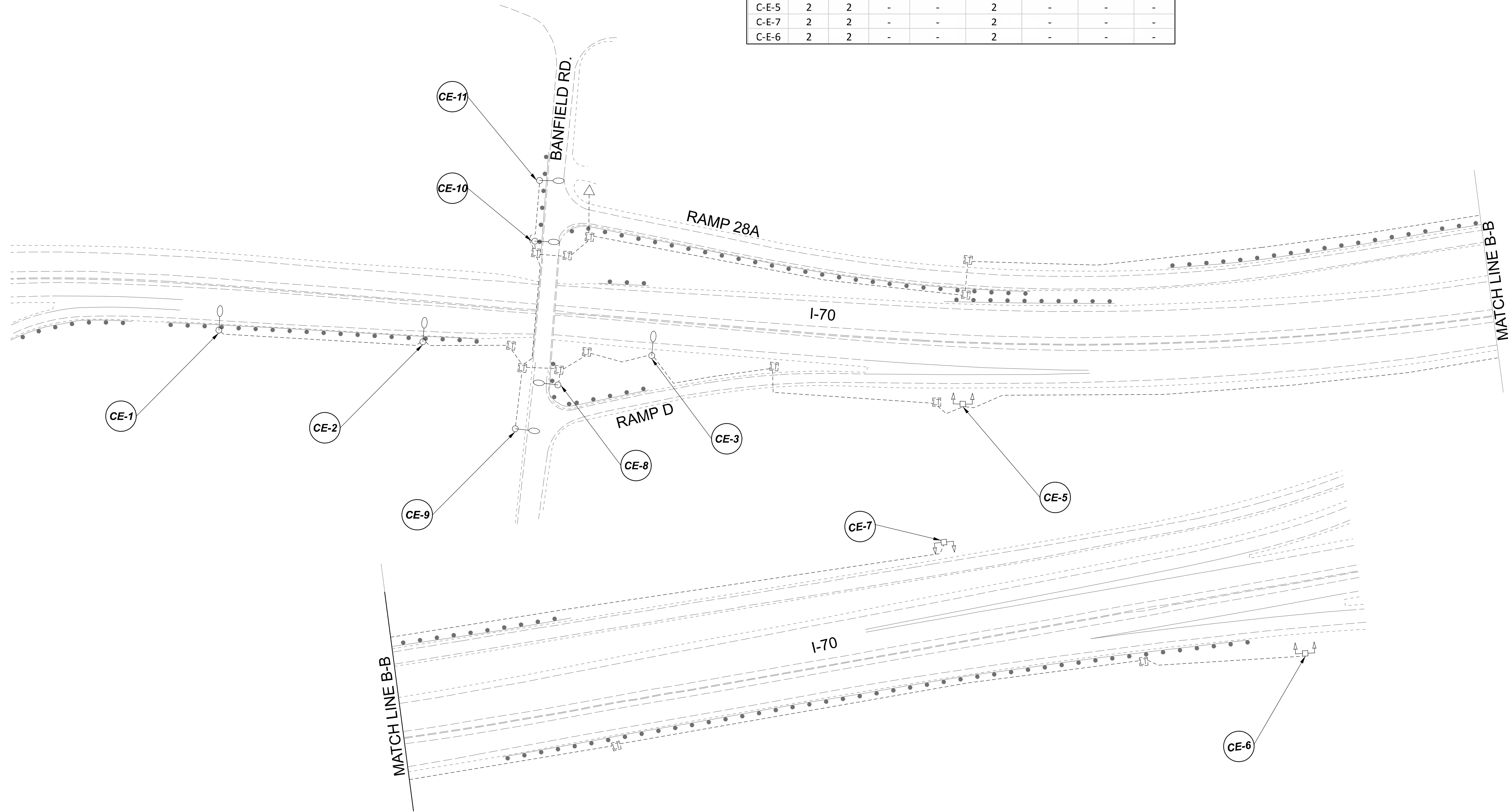
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.189	197

**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C-E-5	2	2	-	-	2	-	-	-
C-E-7	2	2	-	-	2	-	-	-
C-E-6	2	2	-	-	2	-	-	-








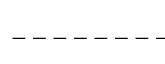
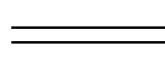



Lighting Plan - Location 70  
I-70 and Banfield Road

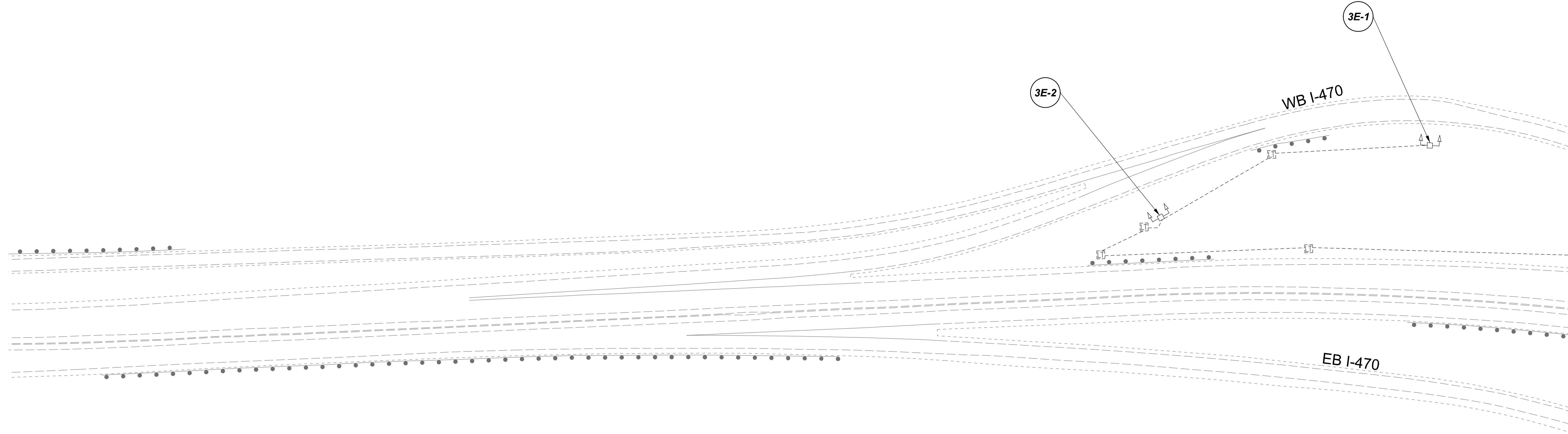
DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.190	
TOTAL	
197	



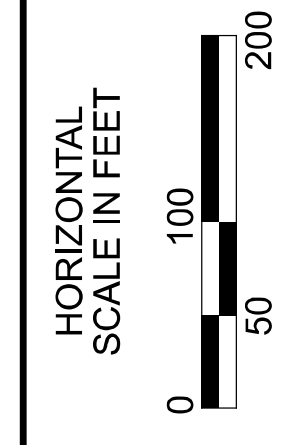
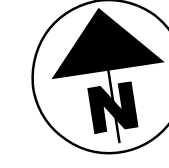
**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	LUMINAIRE REMOVED 1000W HPS	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
3-E-1	2	-	2	-	-	-
3-E-2	2	-	2	-	-	-
3-E-3	2	-	2	-	-	-



MATCHLINE D-D  
SEE SHEET P.192



Lighting Plan - Location 71  
I-70 and I-470

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

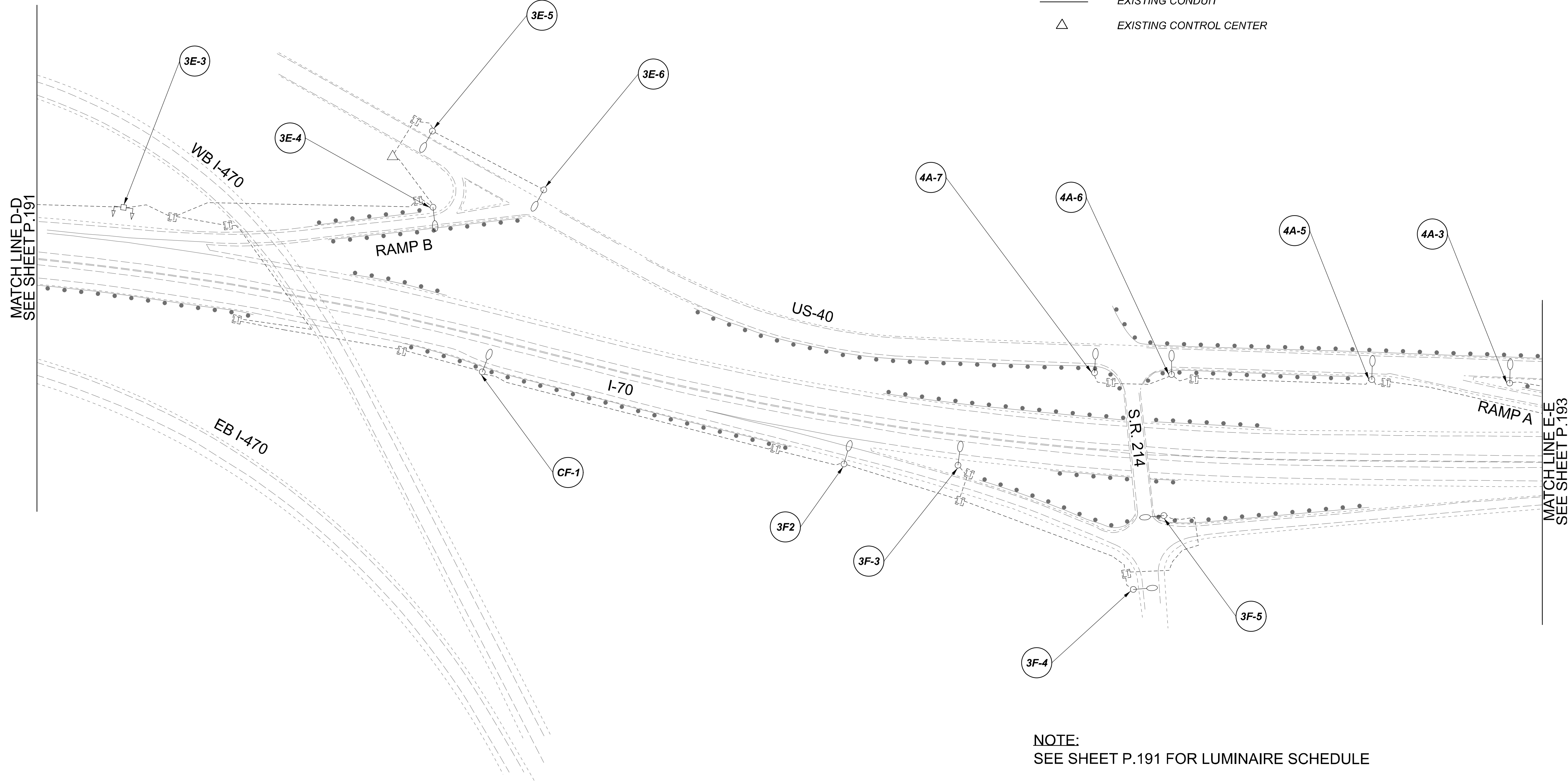
PROJECT ID  
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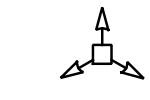
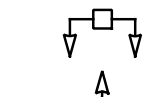
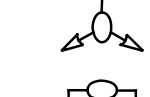
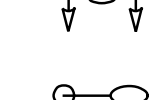



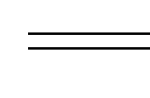
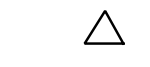

SUBSET	TOTAL
1	3

SHEET	TOTAL
P.191	197

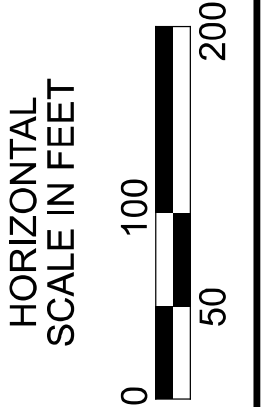
D11-Lighting Upgrade FY2021

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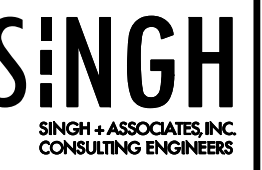
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-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

**NOTE:**  
SEE SHEET P.191 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 71  
I-70 and I-470

DESIGN AGENCY



DESIGNER  
VN

REVIEWER  
SG 03/11/22

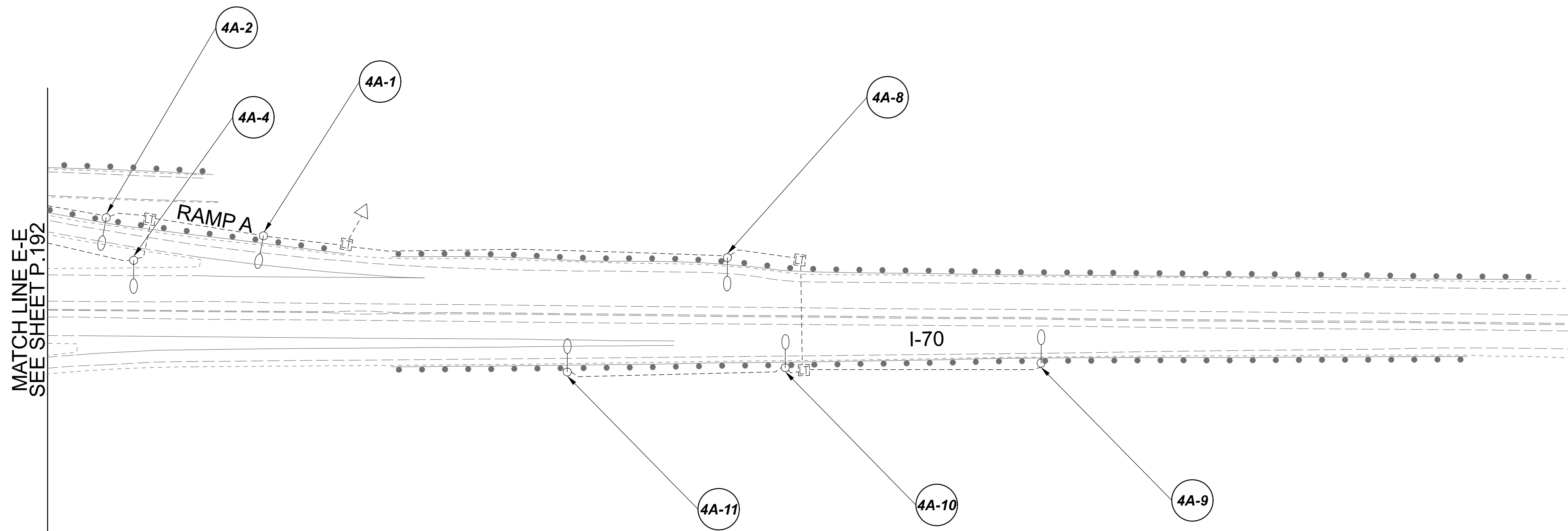
PROJECT ID  
112676

SUBSET	TOTAL
2	3











SHEET	TOTAL
P.192	197

D11-Lighting Upgrade FY2021

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**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 71  
I-70 and I-470

DESIGN AGENCY

**SINGH**  
SINGH + ASSOCIATES, INC.  
CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

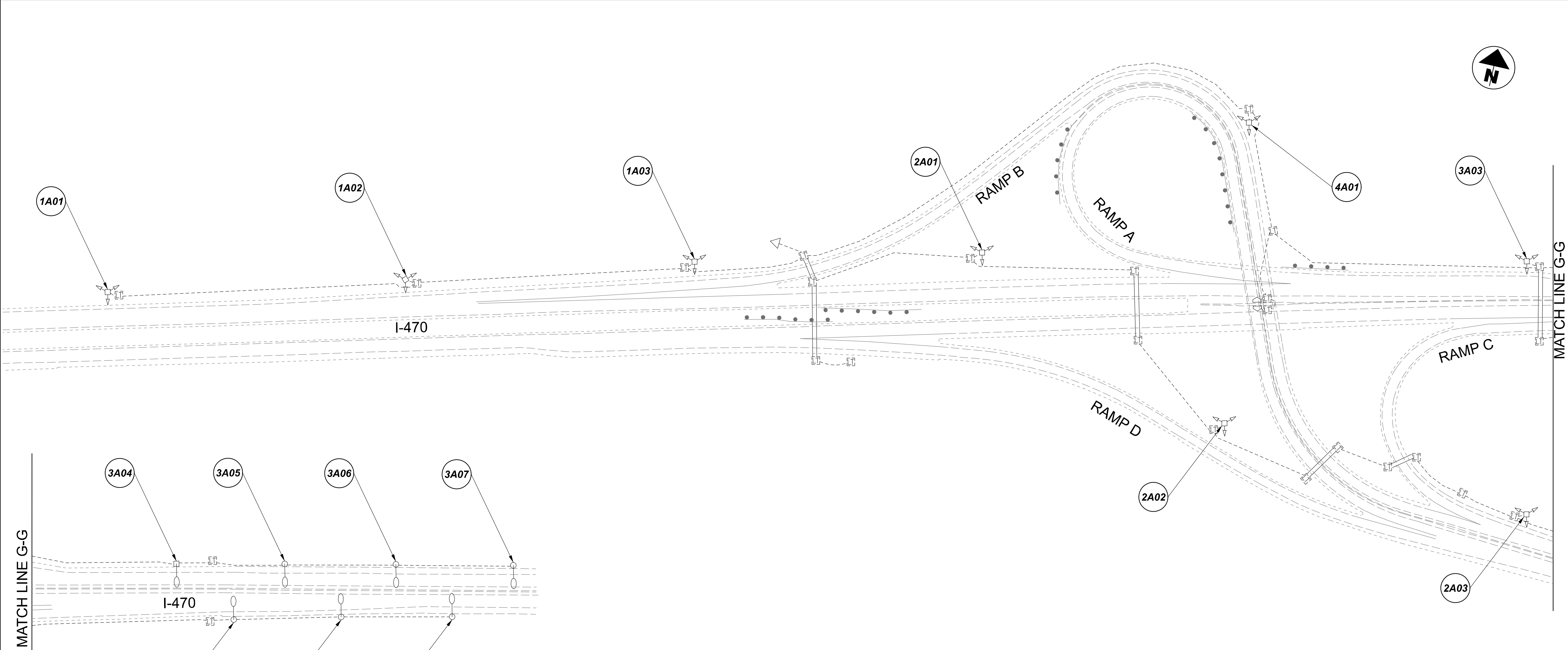
SUBSET	TOTAL
3	3

SHEET	TOTAL
P.193	197

**NOTE:**  
SEE SHEET P.191 FOR LUMINAIRE SCHEDULE

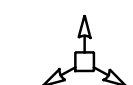
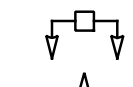
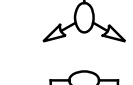
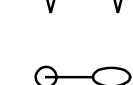


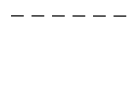



D11-Lighting Upgrade FY2021

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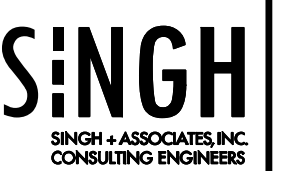


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
1A01	10	5	5	5	-	-	-	-
1A02	10	5	5	5	-	-	-	-
1A03	10	5	5	5	-	-	-	-
2A01	10	5	5	5	-	-	-	-
4A01	10	5	5	5	-	-	-	-
2A02	10	5	5	5	-	-	-	-
3A03	10	5	5	5	-	-	-	-
2A03	10	5	5	5	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

Lighting Plan - Location 72  
I-470 and S.R. 7

DESIGN AGENCY  
  
 SINGH + ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
VN

REVIEWER  
SG 03/11/22

PROJECT ID  
112676

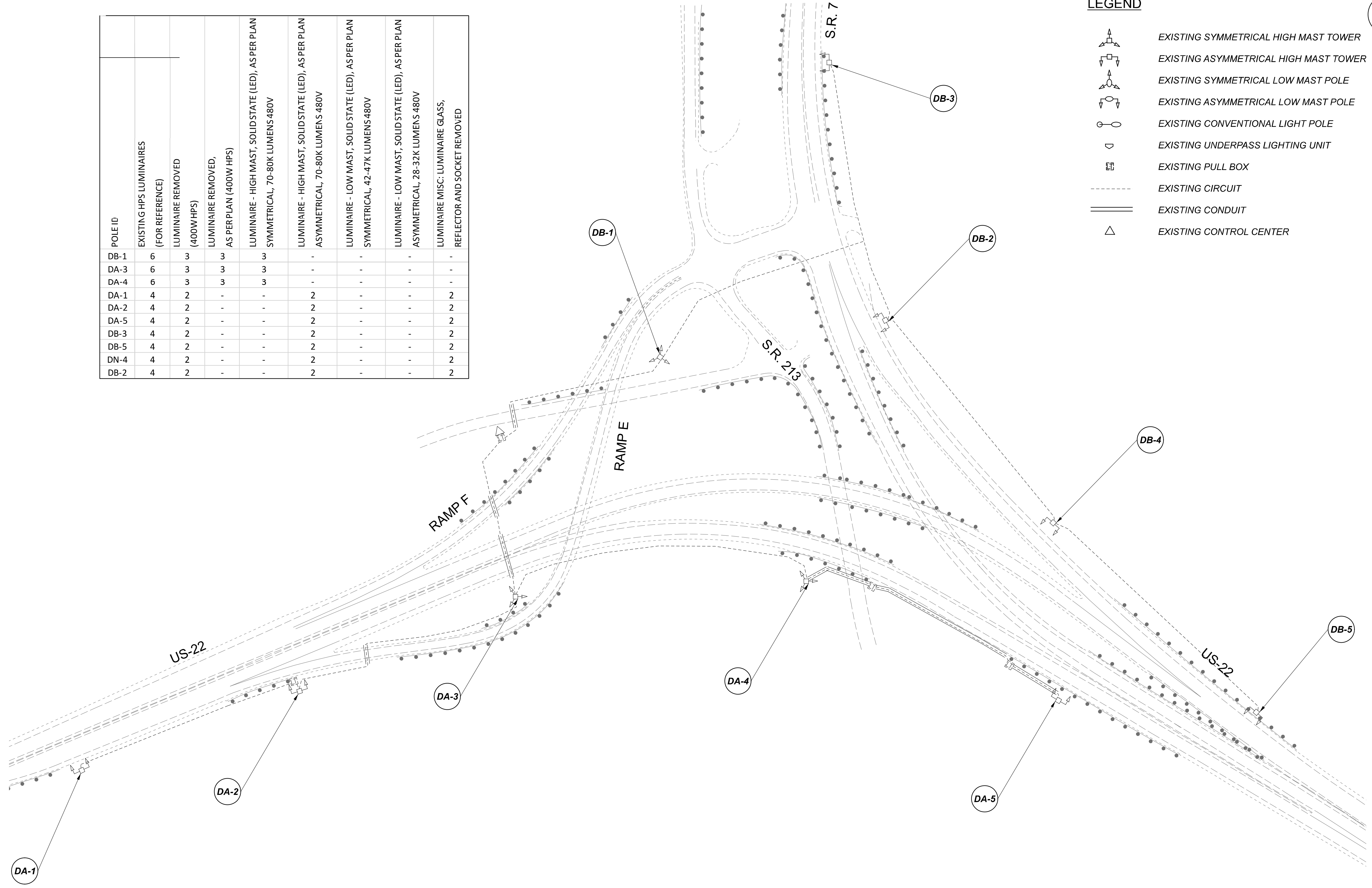
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.194	197

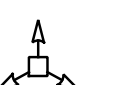
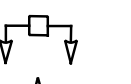
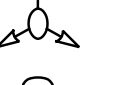
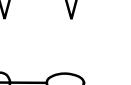






D11-Lighting Upgrade FY2021

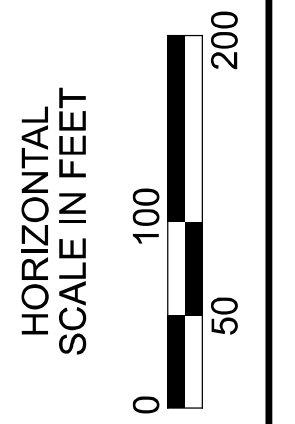
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
DB-1	6	3	3	3	-	-	-	-
DA-3	6	3	3	3	-	-	-	-
DA-4	6	3	3	3	-	-	-	-
DA-1	4	2	-	-	2	-	-	2
DA-2	4	2	-	-	2	-	-	2
DA-5	4	2	-	-	2	-	-	2
DB-3	4	2	-	-	2	-	-	2
DB-5	4	2	-	-	2	-	-	2
DN-4	4	2	-	-	2	-	-	2
DB-2	4	2	-	-	2	-	-	2



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



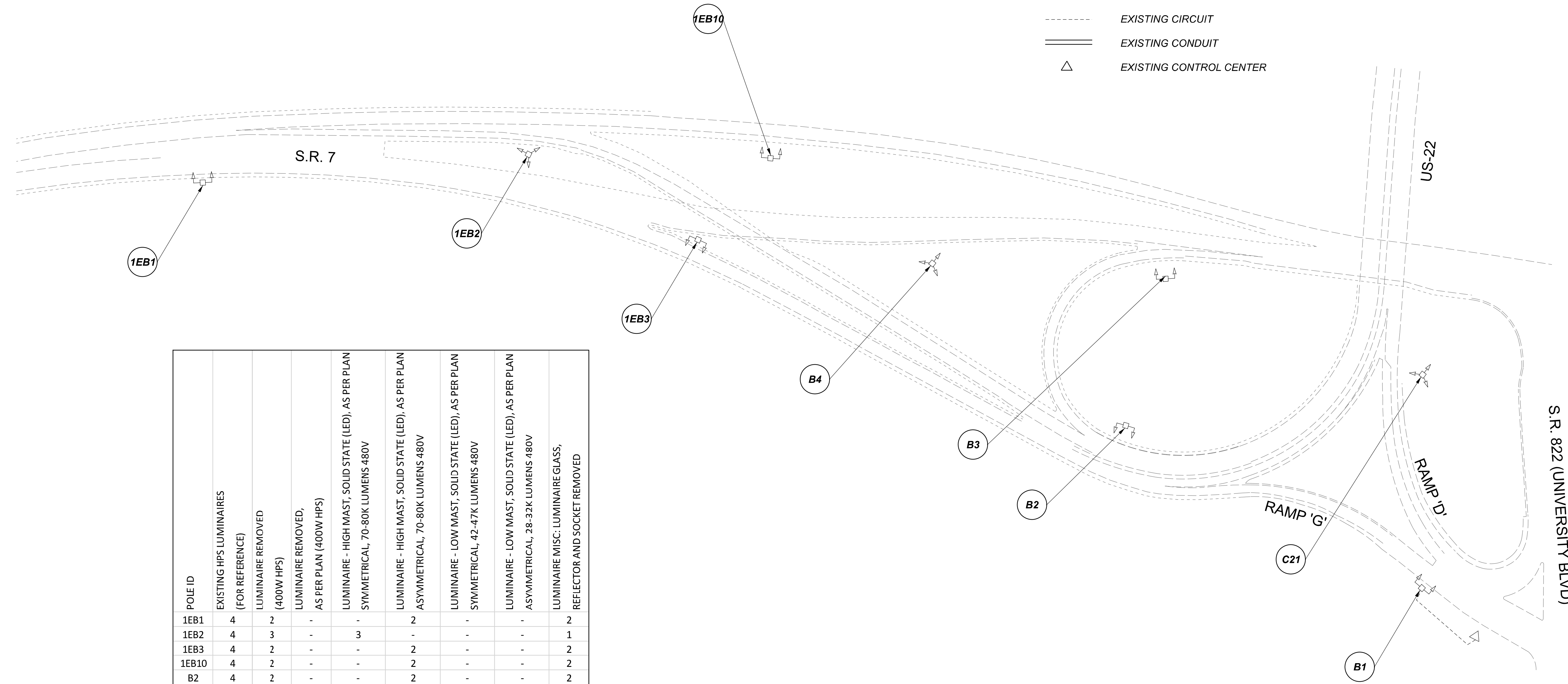
Lighting Plan - Locations 73 & 74  
 US-22 and S.R. 7 Overlap

DESIGN AGENCY	
<b>SINGH</b> SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.195	197

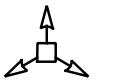
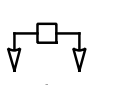
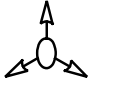
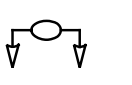
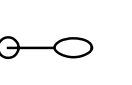


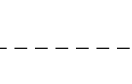
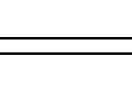

D11-Lighting Upgrade FY2021

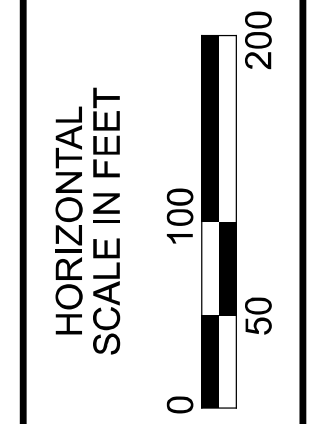
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
1EB1	4	2	-	-	-	-	-	2
1EB2	4	3	-	3	-	-	-	1
1EB3	4	2	-	-	2	-	-	2
1EB10	4	2	-	-	2	-	-	2
B2	4	2	-	-	2	-	-	2
B3	4	2	-	-	2	-	-	2
B4	6	3	3	3	-	-	-	-
B1	4	2	-	-	2	-	-	2
C21	6	3	3	-	3	-	-	-



**LEGEND**

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

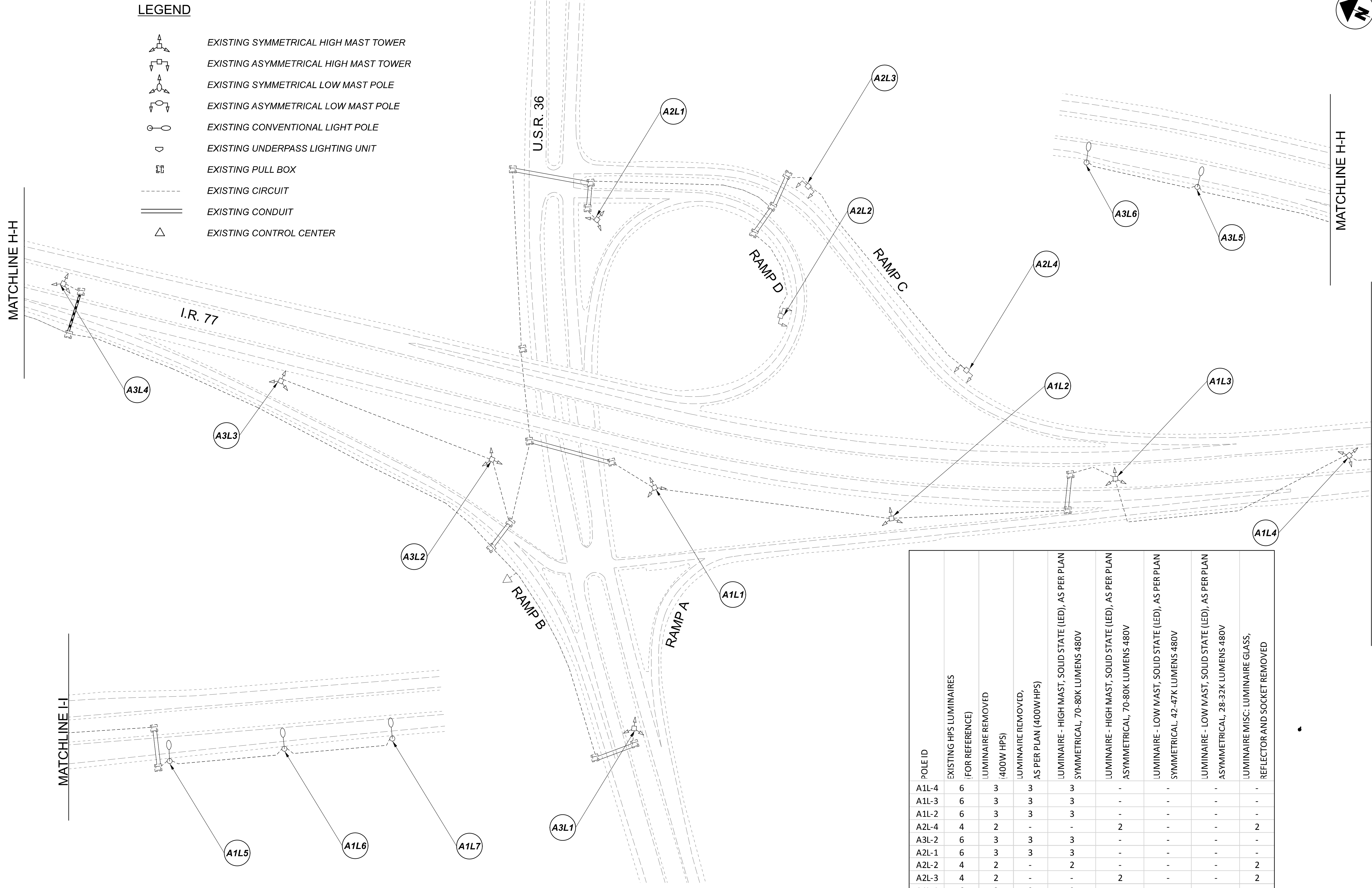


Lighting Plan - Location 75  
 US-22 and S.R. 7 (Veterans Memorial Bridge)

DESIGN AGENCY	
<b>SINGH</b> SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.196	197

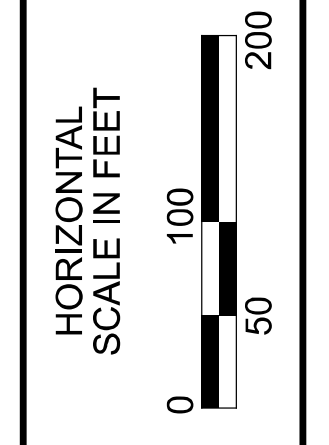
D11-Lighting Upgrade FY2021

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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1L-4	6	3	3	3	-	-	-	-
A1L-3	6	3	3	3	-	-	-	-
A1L-2	6	3	3	3	-	-	-	-
A2L-4	4	2	-	-	2	-	-	2
A3L-2	6	3	3	3	-	-	-	-
A2L-1	6	3	3	3	-	-	-	-
A2L-2	4	2	-	2	-	-	-	2
A2L-3	4	2	-	-	2	-	-	2
A1L-1	6	3	3	3	-	-	-	-
A3L-1	6	3	3	3	-	-	-	-
A3L-3	6	3	3	3	-	-	-	-
A3L-4	6	3	3	3	-	-	-	-

Lighting Plan - Location 76  
I-77 and US-36

DESIGN AGENCY  
**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

DESIGNER  
 VN

REVIEWER  
 SG 03/11/22

PROJECT ID  
 112676

SUBSET	TOTAL
1	1

SHEET	TOTAL
P.197	197