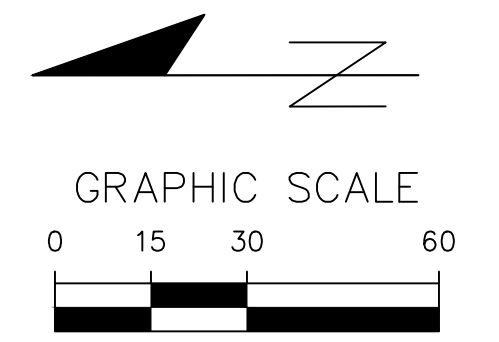


SEE SHEET E2

2023-1068C



THIS TX PAD AND ALL RENTAL LIGHT CONDUITS AND BOXES ARE NOT IN SCOPE

PRIMARY 4" CONDUITS, ALL STREETLIGHT CONDUIT AND ALL PULL BOXES ARE IN SCOPE

SEE SHEET E2

SEE SHEET E2

THIS TX PAD AND PRIMARY 4" CONDUITS, ALL STREETLIGHT CONDUIT AND ALL PULL BOXES ARE IN SCOPE

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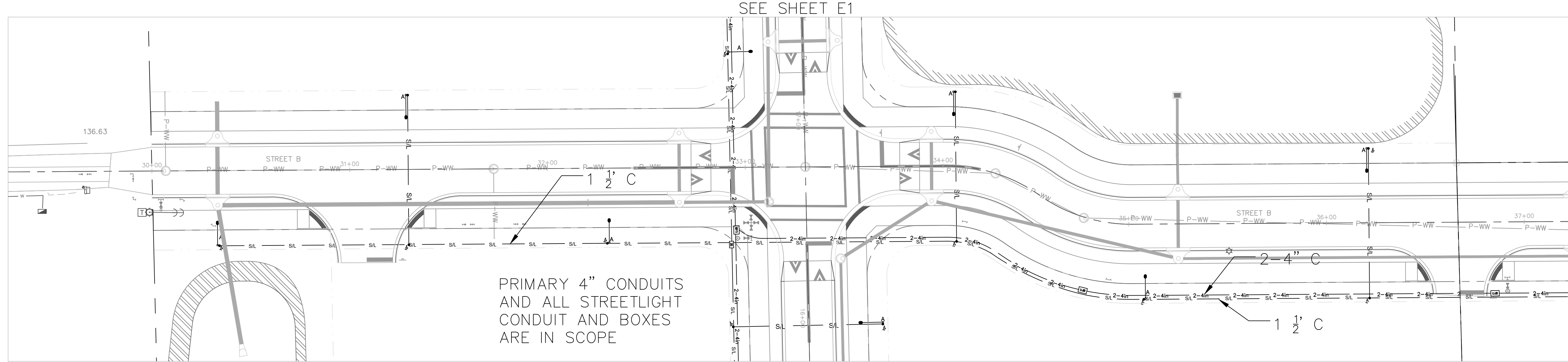
SUBMITTAL NO. 723 SUBMITTAL
02/24/23 SUBMITTAL

CLIENT: GTEC ROADWAY INFRASTRUCTURE
PROJECT: GTEC ROADWAY INFRASTRUCTURE
SHEET TITLE: ELECTRICAL AND LIGHTING PLAN

TECHNICAL:
DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER:
21-0295

WILLIAM T. STORMANT

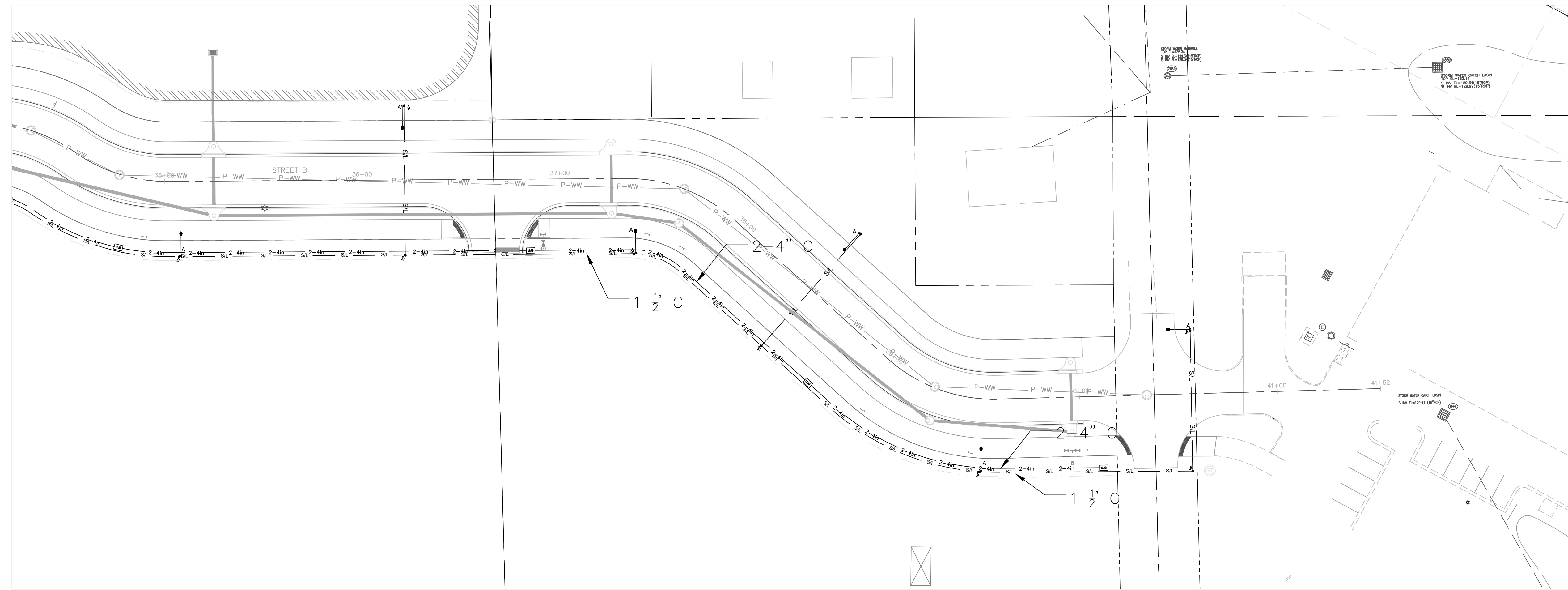
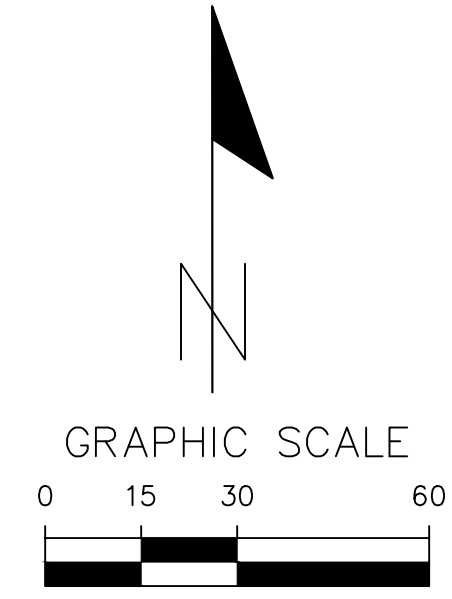
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PRIMARY 4" CONDUITS
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CONDUIT AND BOXES
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02/24/23 SUBMITTAL

CLIENT:
PROJECT: GTEC ROADWAY INFRASTRUCTURE
SHEET TITLE: ELECTRICAL AND LIGHTING PLAN

DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER:
21-0295

WILLIAM T. STORMANT

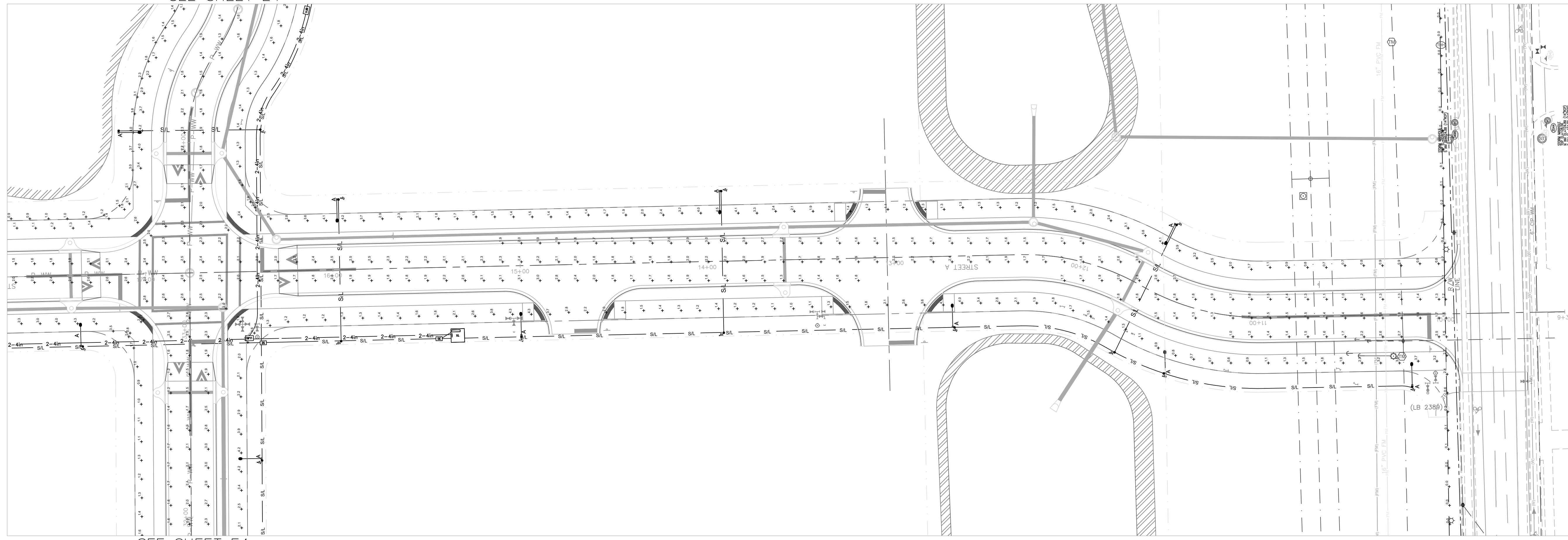
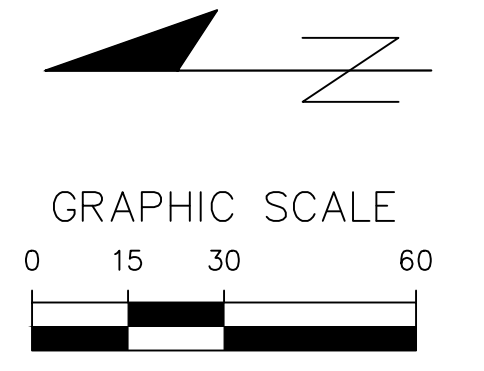
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SEE SHEET E4

SEE SHEET E4



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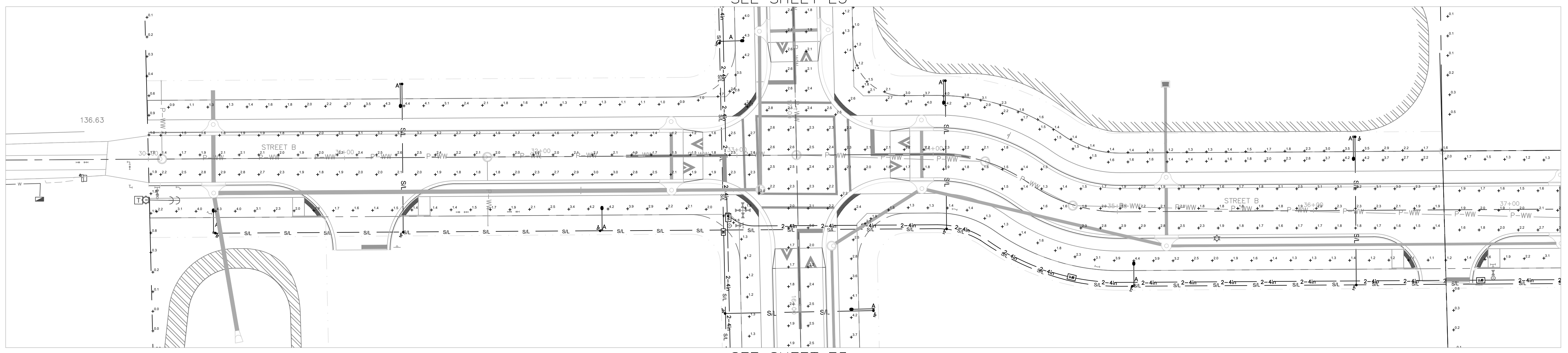
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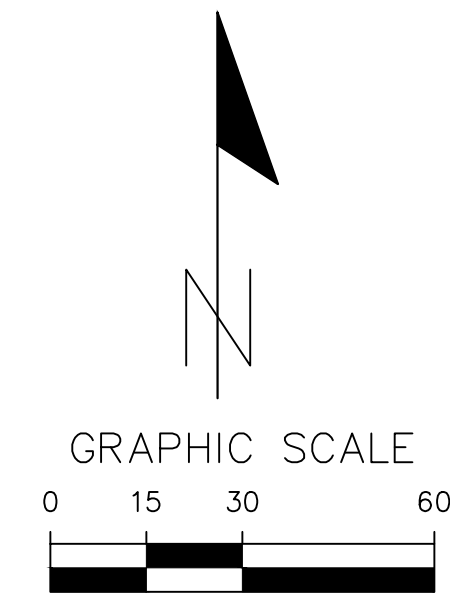
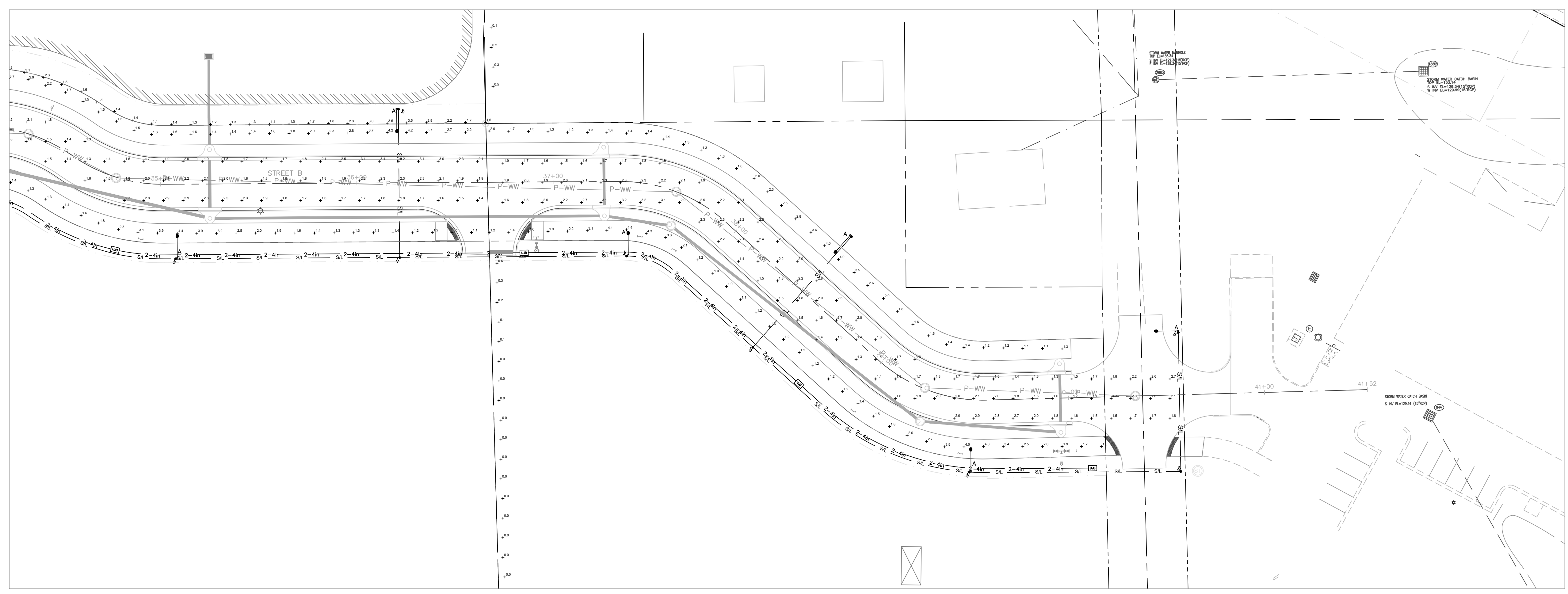
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| REVISION: | SHEET TITLE: PHOTOMETRIC PLAN |
| QUALITY CONTROL: | PROJECT NUMBER: 21-0295 |
| WILLIAM T. STORMANT | |
| FL PE No. 44156 | |
| SHEET NO.: E3 | |

SEE SHEET E3



SEE SHEET E3



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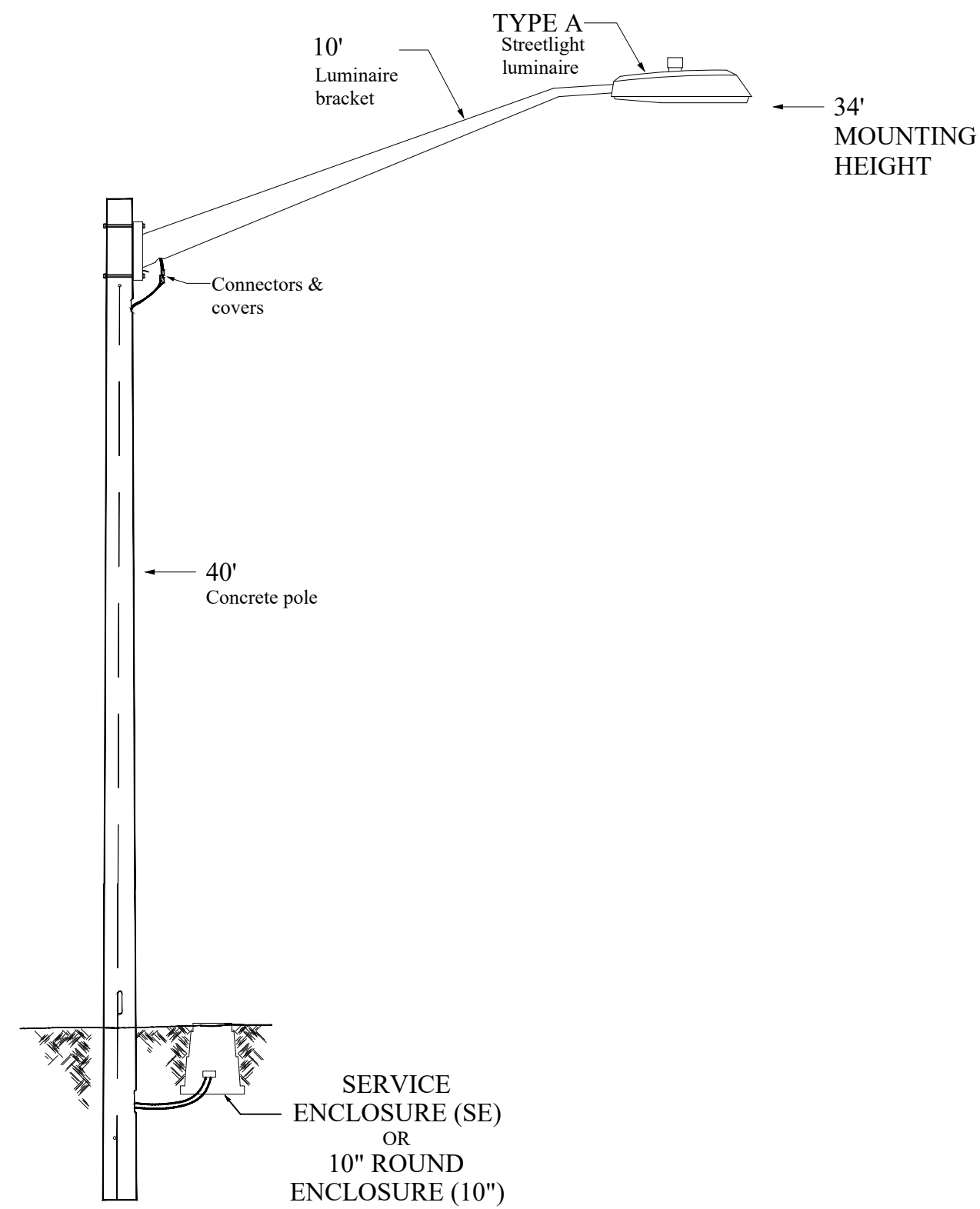
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| CLIENT: | PROJECT: CTEC ROADWAY INFRASTRUCTURE |
| DESIGNER: | SHEET TITLE: PHOTOMETRIC PLAN |
| QUALITY CONTROL: | PROJECT NUMBER: 21-0295 |
| WILLIAM T. STORMANT | FL PE No. 44156 |
| SHEET NO.: | E4 |

| Description | Avg | Max | Min | Max/Min (M/M) | Avg/Min (A/M) | Applicable CofG Code | Criteria |
|---------------------|--------|--------|--------|---------------|---------------|---------------------------------|-------------------------------------|
| GTEC Public Streets | 2.1 fc | 4.1 fc | 1.0 fc | 4.1:1 | 2.1:1 | City of Gainesville Requirement | >= 1.3 fc Avg min, <=3.0 A/M |
| Roadway Sidewalks | 2.1 fc | 5.3 fc | 0.7 fc | 7.6:1 | 3.0:1 | City of Gainesville Requirement | >= 2.0 fc avg, <=4.1A/M, <=10:1 M/M |

NOTES:

- A. THIS DESIGN IS FOR THE PUBLIC STREET LIGHTING SYSTEM ONLY.
- B. NO LIGHT ABOUT 90 DEGREES ABOVE HORIZONTAL PLANE AT FIXTURE HEIGHT.
- C. ALL LUMINAIRES ARE FULL CUT-OFF NO VERTICAL CANDLES AT 5' ABOVE HIGHEST FIXTURE.
- D. THE MAXIMUM MOUNTING HEIGHT IS 34' ABOVE FINISH GRADE
- E. GRU POLE MOUNTED LIGHTS ARE CONTROLLED BY DUSK TO DAWN PHOTOCELLS.
- F. THIS PHOTOMETRIC DESIGN MEETS THE SPECIFIC ILLUMINATION REQUIREMENTS FOR STREET LIGHTING FOUND IN IESNA R8-18 FOR A COLLECTOR ROAD WITH MEDIUM PEDESTRIAN ACTIVITY AND IESNA DG-5-1994 FOR SIDEWALKS WITH INTERMEDIATE ACTIVITY.
- G. ILLUMINATION LEVELS ARE GIVEN IN MAINTAINED FOOT CANDLES.
- H. CONTRACTOR TO VERIFY ALL QUANTITIES.



STREET LIGHT DETAIL
NOT TO SCALE

| Symbol | Label | QTY | Manufacturer | Catalog Number | Description | Lamp | Number Lamps | Filename | Lumens per Lamp | LLF | Wattage | Notes |
|--------|-------|-----|-----------------------|-------------------------------|--|------|--------------|--------------------|-----------------|------|---------|---|
| | A | 22 | GE LIGHTING SOLUTIONS | ERL2-0-23-C3-30-A-GRAY-GRU032 | Evolve LED Roadway Streetlight-ERL2 Full cutoff, Type 3 Distribution - GRAY GRU Furnished and installed. GRU L41 Fixture | LED | 1 | ERL2_23C330_...IES | 22099 | 0.90 | 194 | CITY PUBLIC LIGHT ON 40' STANDARD CONCRETE POLE, 10' ARM, 3' BACK OF CURB, 34' M.H. |

NOTES:

- A. REFER TO UF EASTSIDE URGENT CARE CENTER LIGHTING PLANS FOR THAT PROJECT'S LIGHTING FIXTURE INFORMATION.

ERL2 Cobra Head
LED Roadway Lighting

The Evolve® LED Roadway ERL2 Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

Project Name _____
Date _____ Type _____
Notes _____

CONSTRUCTION

Housing: Aluminum die cast enclosure casting integral heat sink for maximum heat transfer

Lens: Impact resistant tempered glass

Paint: (RAL & custom colors available)
Standard = Black, Dark Bronze, Gray, White
Optional = Coastal Finish

Weight: 24.0 lbs (10.9 kgs)

OPTICAL SYSTEM

Lumens: 16,000 - 30,000

Distribution: Type II Narrow, II/III, III, V

Efficacy: 110-143 LPW

CCT: 2700K, 3000K, 4000K

CRI: ≥ 70

ELECTRICAL

Input Voltage: 120-277V or 347-480V

Input Frequency: 50/60Hz

Power Factor: ≥ 90% at rated watts

Total Harmonic Distortion: ≤ 20% at rated watts

SURGE PROTECTION*

Standard: 10kV/5kA Secondary 10kV/5kA (R Option) or Secondary 20kV/10kA (T Option)

Optional: Secondary 10kV/5kA (R Option) or Secondary 20kV/10kA (T Option)

*Per ANSI C136.2-2018

LUMEN MAINTENANCE

Projected Lux per IES TM-21-11 at 25°C

| Lumen Codes | Distributions | 25,000 HR | 50,000 HR | 60,000 HR |
|--------------------|-----------------|-----------|-----------|-----------|
| 16, 18, 19, 21, 23 | A3,B3,C3, D3,E3 | L96 | L94 | L94 |
| 25, 27, 28 | A3,B3,C3, D3,E3 | L95 | L93 | L92 |
| 30 | A3,B3,C3, D3,E3 | L94 | L91 | L90 |

Note: Projected Lux based on LM80 (≥ 10,000 hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements.

RATINGS

Operating Temperature: Lumen Output 16-28 (-40°C to 50°C)
Lumen Output 30 (-40°C to 45°C)

Vibration: 3g per ANSI C136.31-2018

LM-79: Testing in accordance with IES Standards

CONTROLS

Dimming: Standard - 0-10V
Optional - DALI (Option U)

Sensors: Photo Electric Sensors (PE) available
LightGrid Compatible

WARRANTY

5 Year (Standard) 10 Year (Optional)

ERL2

| PROD. ID | VOLTAGE | LUMENS | DISTRIBUTION | CCT | CONTROLS PER ANSI C136.41 | COLOR | OPTIONS |
|--------------------------|--------------------------|--------|----------------------------------|-------------------------|---|--------------------|---|
| E = Evolve | 0 = 120-277 ¹ | 16 | A3 = Type II Narrow ² | 27 = 2700K ¹ | A = 7-Pin Receptacle | BLCK = Black | A = 4 Bolt Slipfitter ³ |
| R = Roadway | H = 347-480 ¹ | 18 | B3 = Type II Wide | 30 = 3000K ³ | D = 7-Pin Receptacle with Shorting Cap | DKBZ = Dark Bronze | B = Tether |
| L = Local | | 19 | C3 = Type III | 40 = 4000K | E = 7 Pin Receptacle with Long Life non-Dimming PE Control ⁴ | GRAY = Gray | F = Fusing |
| 2 = Double Module | 1 = 120 | 21 | D3 = Type IV | | | WHITE = White | G = Internal Bubble Level |
| | 2 = 208 | 23 | E3 = Type II Enhanced Back Light | | Note: 0-10V control standard unless DALI Option "U" requested | | I = Optional IP66 Optical |
| | 3 = 240 | 25 | | | | | L = Tool-Less Entry |
| | 4 = 277 | 27 | | | | | M1 = MagnaPak ⁵ |
| | 5 = 480 | 28 | | | | | R = Secondary 10kV/5kA SPD |
| | D = 347 | 30 | | | | | T = Secondary 20kV/10kA SPD |
| | | | | | | | U = DALI Programmable ⁶ |
| | | | | | | | V1 = Field Adjustable Module ⁶ |
| | | | | | | | Y = Coastal Finish ⁷ |
| | | | | | | | XXX = Special Options |

SUGGESTED HID REPLACEMENT

~ Approximately 21,000 - 30,000 lumens to replace 400W HPS Cobra-head

Note: actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

| Previous Optical Pattern | Latest | New Optical Pattern |
|---------------------------------------|--------|-----------------------------|
| A1, B1 Extra Narrow/Narrow Asymmetric | A3 | Type II Narrow |
| C1, E1 Asymmetric Short/Medium | B3 | Type II Wide |
| D1, G1 Asymmetric Forward/Extra Wide | C3 | Type III |
| F1 Asymmetric Wide | D3 | Type IV |
| N/A | E3 | Type II Enhanced Back Light |

The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is by doing a lighting layout.

Project Name _____
Date _____ Type _____
Notes _____

TYPE A LUMINAIRE

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02/24/23 SUBMITTAL

CLIENT:
PROJECT:
SHEET TITLE:
STATISTICS, SCHEDULE AND DETAILS

DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER:
21-0295

WILLIAM T. STORMANT

FL PE No. 44156
SHEET NO.:
E5

SPECIFICATIONS:

1. SCOPE OF PROJECT - THE WORK SHALL INCLUDE (BUT NOT BE LIMITED TO) THE FOLLOWING CONDUIT, PULL BOXES FOR PRIMARY AND SECONDARY VOLTAGES, TRANSFORMER PADS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN FOR A ELECTRICAL PRIMARY VOLTAGE DISTRIBUTION SYSTEM AND FOR THE PUBLIC LIGHTING SYSTEMS. THE BREAK OUT IS DETAILED BELOW. NOTE: CONDUITS ARE TO BE INSTALLED PER GRU PLANS. THE CONDUIT SYSTEMS SHOWN ON THIS PLAN ARE FOR COORDINATION PURPOSES ONLY.

1.1 SCOPE OF GRU ELECTRICAL WORK: GRU WILL PERFORM CERTAIN WORK ELEMENTS TO ASSIST THE CONTRACTOR IN PROVIDING COMPLETE AND OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

1.2 THE CONTRACTOR SHALL FURNISH AND INSTALL THE UTILITY UNDERGROUND SERVICE CABLE, CONDUIT AND RELATED INFRASTRUCTURE FOR THE BUILDING. THE CABLE SHALL BE OF SUFFICIENT LENGTH ALLOW A MINIMUM OF A FIVE-FOOT TAIL AT EQUIPMENT. (NOT A PART OF THIS DESIGN).

1.3 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE CONDUIT AND RELATED PRODUCTS (PULL BOXES, JUNCTION BOXES, ETC.) REQUIRED FOR THE PUBLIC STREET LIGHTING SYSTEM (NOT THE RENTAL LIGHTING SYSTEM WHICH IS LOCATED IN THE CARE CENTER PARKING LOT).

1.4 GRU WILL FURNISH AND INSTALL THE FOLLOWING PRODUCTS: ALL PRIMARY CABLES, POLES AND LIGHTS, ALL TRANSFORMERS, AND ALL MAKEUP MATERIALS. ALL PRIMARY MAKE UP, CONNECTIONS AND TESTING WILL BE COMPLETED BY GRU.

1.5 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER MATERIALS, INCLUDING BUT NOT LIMITED TO ALL CONDUIT, ENCLOSURES, TRANSFORMER PADS (AS NOTED ON PLAN) AND EQUIPMENT BASES AS NEEDED FOR THE UTILITY SYSTEM.

1.6 PROVIDE ALL WIRING, CONDUIT, POLES, LUMINAIRES, BASES AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING PUBLIC STREET LIGHTING SYSTEM. POLES ARE INDIVIDUALLY CONTROLLED BY INTEGRAL PHOTOCELLS.

1.7 PUBLIC STREET LIGHTING SYSTEM WILL CONTROLLED INDIVIDUAL PHOTOCELLS.

1.8 ALL UTILITY SYSTEM CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS FOR THIS TYPE FACILITY INCLUDING THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE AND MEET ALL GRU UTILITIES POLICIES AND PRACTICES.

1.9 "PROVIDE" SHALL MEAN FURNISH, INSTALL, CONNECT, ADJUST, AND TEST EXCEPT WHERE NOTED.

2. MATERIALS AND EQUIPMENT SHALL BE NEW AND SUITABLE FOR THE PURPOSE INTENDED. CONTRACTOR IS RESPONSIBLE FOR PROCURING AND INSTALLING; CONDUITS, TRANSFORMER BASES, UNDERGROUND JUNCTION BOXES AND BURIED WIRE ENCLOSURES. SEE APPROVED MANUFACTURER AND MODEL NUMBERS IN THE GRU ENERGY DELIVERY SERVICE GUIDE.

2.1 UNDERGROUND JUNCTION BOX "UJB" SHALL BE MADE OF CORRUGATED POLYESTER WALLS AND POLYMER CONCRETE COLLAR AND TOP. APPROXIMATE DIMENSIONS 51"x33"x30" DEEP. SEE GRU ENERGY DELIVERY GUIDE FOR INSTALLATION AND SPECIFICATIONS.

2.2 SECONDARY ENCLOSURE "SE" SHALL BE MADE OF POLYMER CONCRETE. COVER IDENTIFIED AS "ELECTRIC". DIMENSIONS 40"x33"x19" DEPTH. SEE GRU ENERGY DELIVERY GUIDE FOR INSTALLATION AND SPECIFICATIONS.

2.3 UNDERGROUND ROUND WIRE ENCLOSURE "10" SHALL BE MADE OF HIGH DENSITY POLYETHYLENE. COVER IDENTIFIED AS "ELECTRIC. DIMENSIONS 10" ROUND BY 19" DEEP. SEE GRU ENERGY DELIVERY GUIDE FOR INSTALLATION AND SPECIFICATIONS.

2.4 CONTRACTOR SHALL FORM AND POUR CONCRETE 96"x84"x8" THREE-PHASE TRANSFORMER PAD AS DETAILED IN THE ENERGY DELIVERY SERVICE GUIDE.

GENERAL NOTES:

THE DRAWINGS ARE IN PART DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF THE WORK, INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF CONDUIT AND PADS OR BASES, AND THE LIKE. IT IS NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES REQUIRED AT EACH LOCATION FOR THE EXECUTION OF THE WORK, BUT IT IS INTENDED THAT ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EXAMINE ALL DRAWINGS FOR COORDINATION AND ALLOCATION OF SPACE AND AVOID INTERFERENCE WITH SURROUNDS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PRACTICAL IN PERFORMING THE WORK. DISCREPANCIES BETWEEN THE ELECTRICAL CONDUIT SYSTEM AND WORK OF OTHER TRADES SHALL BE COORDINATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY FIELD CONDITIONS.

DISCREPANCIES DISCOVERED DURING THE BID PROCESS SHALL BE REFERRED TO THE ENGINEER PRIOR TO SUBMITTING A BID. THE ENGINEER WILL ISSUE INSTRUCTIONS BY ADDENDUM WHEN NECESSARY. INTERPRETATION OF THE DRAWINGS WILL BE BY THE ENGINEER.

CHANGES FROM THE DRAWINGS THAT ARE NECESSARY TO MAKE WORK CONFORM TO FIELD CONDITIONS, TO FIT WORK OF OTHER TRADES, OR TO RULES OF BODIES HAVING JURISDICTION, WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. IN CASE OF DISPUTE, THE ENGINEER WILL RENDER A DECISION ON HOW TO PRECEED.

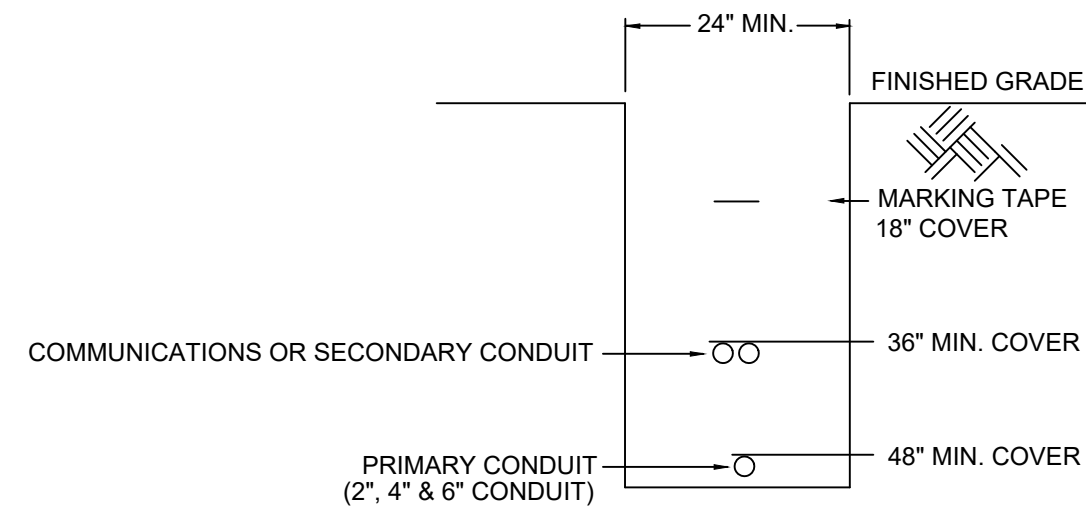
THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING:

- NFPA 70, NATIONAL ELECTRICAL CODE LATEST ADOPTED EDITION
- NATIONAL ELECTRICAL SAFETY CODE LATEST ADOPTED EDITION
- NECA STANDARD OF INSTALLATION
- NFPA 72 LATEST ADOPTED REVISION
- FLORIDA BUILDING CODE LATEST REVISIONS
- NFPA 101 LATEST ADOPTED REVISION
- ADA LATEST ADOPTED REVISION
- GRU UTILITY STANDARDS AND POLICIES
- GRU ENERGY DELIVERY SERVICE GUIDE
- CITY OF GAINESVILLE CODE OF ORDINANCES
- UNDERWRITER'S LABORATORY STANDARDS (UL)
- ILLUMINATION ENGINEERING SOCIETY HANDBOOK 10TH EDITION
- OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION

ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|--------------|--------------------------------------|
| AL | ALUMINUM |
| AWG | AMERICAN WIRE GAUGE |
| BIL | BASIC INSULATION LEVEL |
| BUG | BACK, UP AND GLARE RATING |
| C | CONDUIT |
| COA | CITY OF ALACHUA |
| CU | COPPER |
| ECC | EQUIPMENT GROUNDING CONDUCTOR |
| FC | FOOTCANDLE |
| GRD | GROUND |
| GRU | GAINESVILLE REGIONAL UTILITIES |
| IES | ILLUMINATION ENGINEERING SOCIETY |
| KCMIL | THOUSANDS OF CIRCULAR MILS |
| KV | KILOVOLT |
| LED | LIGHT EMITTING DIODE |
| SE | LARGE BURIED WIRE ENCLOSURE |
| LDR | LAND DEVELOPMENT REGULATIONS |
| MAX | MAXIMUM |
| MEP | MECHANICAL, ELECTRICAL, AND PLUMBING |
| MIN | MINIMUM |
| NEC | NATIONAL ELECTRIC CODE |
| P | PROPOSED |
| P-E | PROPOSED ELECTRIC |
| PH | PHASE |
| PSI | POUNDS PER SQUARE INCH |
| PUE | PUBLIC UTILITY EASEMENT |
| ROW | RIGHT OF WAY |
| RP | RECOMMENDED PRACTICE |
| S/L | STREET LIGHT |
| 10" | SMALL BURIED WIRE ENCLOSURE |
| SC | SECTIONALIZING CABINET |
| TPX | TRIPLEX |
| TX | TRANSFORMER |
| TYP | TYPICAL |
| UD | UNDERGROUND |
| UGE | UNDERGROUND ELECTRIC |
| UJB | UNDERGROUND JUNCTION BOX |
| URD | UNDERGROUND DISTRIBUTION |

WARNING TAPE SHALL BE RED WITH CONTINUOUS BLACK MARKINGS SEE GRU ENERGY DELIVERY SERVICE GUIDE FOR SPECIFICATIONS. SHALL BE ALLENSYSTEM "MARKLINE" OR EQUAL REEFINDUSTRIES OR THORENTERPRISES.



TYPICAL CONDUIT TRENCH DETAIL

NOT TO SCALE

ELECTRICAL UTILITIES LEGEND

- 4" PVC, 48" MIN. COVER, PROVIDED UNDER ROADWAY PROJECT
- UTILITY PRIMARY CABLE IN 2" PVC AT 48" MIN. COVER. PROVIDED UNDER ROADWAY PROJECT
- 1 1/2" CONDUITS AT 36" MIN. COVER. PROVIDE FOR PUBLIC (ROADWAY PROJECT) AND RENTAL (CARE CENTER PROJECT) LIGHTING
- 2-4" CONDUITS AT 48" MIN. COVER, PROVIDED UNDER ROADWAY PROJECT
- 10" SMALL BURIED WIRE ENCLOSURE, APPROXIMATELY 10" DIA. X 19" DEEP. (TYPICALLY FOR LIGHTING FEEDS - PROVIDE)
- LARGE BURIED WIRE ENCLOSURE, APPROXIMATELY TOP DIMENSION 30" X 17"x16" DEEP.
- UD JUNCTION BOX - TOP DIMENSIONS 30" X 48" X 30" DEEP - FOR PRIMARY CONDUCTORS
- GRU THREE PHASE TRANSFORMER, PROVIDE POURED IN PLACE PAD
- EXISTING GRU POLE
- SEE LIGHTING DETAIL SHEET FOR LIGHTING SCHEDULE FOR LUMINAIRE DESCRIPTION AND SPECS.
- UTILITY STREET LIGHT - SEE LIGHTING SCHEDULE
- RENTAL LIGHT - SEE LIGHTING SCHEDULE
- RENTAL LIGHT - SEE LIGHTING SCHEDULE

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PROJECT NUMBER:
21-0295

WILLIAM T. STORMANT

FL PE No. 44156
SHEET NO. 6

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