STREET LIGHTING NOTES

The street lighting shall be constructed in accordance with the current City of Columbus, Ohio "Construction and Material Specifications" (2018 Edition, Section 1001, titled "Street Lighting"), including all supplements thereto, in force on the date of the contract, shall govern all materials and workmanship involved in the improvements shown on these plans, except as such specifications are modified by the following specifications or by the construction details set forth herein.

Circuit voltage for all luminaires shall be 480 volt, unless otherwise noted.

Centerline of light pole foundation and conduit trench to be placed in accordance with the plan details.

All proposed luminaires shall be 3000K LED.

No splices shall be made to circuit cables except in poles or pull boxes at noted locations.

Trench location shall be deflected around obstacles as noted in this plan.

Where the trench is offset from the centerline of the foundations, the conduit shall be directed toward the ell of the foundation at approximately 45 degree angle. The foundation ells may be aimed out of foundation at approximately 45 degree angles to facilitate connection to conduit with the least amount of bends.

The plan details shall be considered supplemental to MIS Specifications.

Light pole foundations shall be located approximately where shown on plans with exact locations to be determined in the field after consideration is given to the location of underground and overhead utilities, pavements and grades.

It shall be the Contractor's responsibility to provide the anchor bolts and ensure that the bolt size, anchor bolt circle and pattern match the light pole.

All items of work called for on the plans, for which no specific method of payment is provided, shall be performed by the Contractor and the cost of these shall be included in the unit price bid for the various related items. This includes, but is not limited to, such incidental items as relocation of mail boxes, saw cutting and removal and/or relocation of signs, railroad ties, sprinklers, relocating roof or sump drains around light pole foundations, hand digging around underground utilities or other miscellaneous items.

Prior to any painting, the Contractor shall submit paint samples and shop drawings to the City of Columbus. Paint samples shall be representative of the color, type and manufacture that will be used for light pole.

AS BUILT RECORD

The Contractor shall maintain a set of project record documents. These documents shall include reviewed shop drawings, change orders, equipment operating instructions, field test records, and as built drawings. The as built drawing shall be marked legibly in red, the actual location of equipment and conduits as constructed. All equipment and underground conduits installed shall have locations marked in distances off a landmark at least every 25 feet and as necessary at bends for location at a later date. Additionally, the Contractor shall fill–in the as–built coordinate table as shown below.

As-Built Coordinate Table

Reference No.	Proposed Item	As-Built Northing	As-Built Easting
---	Controller		
A-1	Street Light Pole		
A-2	Street Light Pole		
A-3	Street Light Pole		
B-1	Street Light Pole		
B-2	Street Light Pole		
B-3	Street Light Pole		
PB-1	Pull Box		
PB-2	Pull Box		
PB-3	Pull Box		
PB-4	Pull Box		
PB-5	Pull Box		
PB-6	Pull Box		

SUB-SUMMARY OF LIGHTING ITEMS

ITEM NO.	QTY	UNIT	ITEM DESCRIPTION
1001		EA	13 Inch x 24 Inch Pull Box (MIS-54)
1001		EA	Streetlight Circuit Riser (MIS-56)
1001		EA	6' Street Light Foundation (MIS-201)
1001		EA	Pole, Aluminum, 6' Bracket, T-Base, 31' Mounting Height, Green (Teardrop) (MIS-305)
1001		CKT FT	3-Wire Underground Circuit (MIS-404)
1001		EA	3-Wire Pole to be Wired (MIS-501)
1001		EA	3-Wire, 480V Pad Mounted Controller (MIS-603)
1001		LF	2-Inch Conduit, Concrete Encased (MIS-700)
1001		LF	2-Inch Conduit, Jacking, Drilling or Pushing (MIS-701)
1001		LF	3-Inch Rigid Steel with 2-Inch Conduit Insert (MIS-702)
1001		EA	Teardrop LED Luminaire, Green (MIS-801)
1001		EA	Foundation Removal (MIS-900)
1001		LUMP	Existing Underground System Removal (MIS-902)
			Total Carried to General Summary

NON-PAYMENT MIS SPECIFICATIONS

MIS	Item Description
1	Street Light Lockout/Tagout (LOTO)
2	Guidelines for Inspection & Acceptance of Street Lighting Systems
3	Guidelines for Street Lighting "Materials for Approval" Submittal Packages
4	Inspection Checklist
58	Minimum Tree Clearance for Downtown, Urban, & Rural Areas

CITY OF COLUMBUS MIS

MIS–1	MIS–404
MIS–2	MIS–501
MIS–3	MIS–603
MIS–4	MIS–700
MIS–54	MIS–701
MIS–56	MIS–702
MIS–58	MIS–801
MIS–201	MIS–900
MIS–305	MIS–902

DESIGNER NOTE:
THE DESIGNER SHALL LIST THE APPROPRIATE MIS SPECIFICATIONS THAT PERTAINS TO THE PROJECT.

CALCULATED ABC
CHECKED ABC

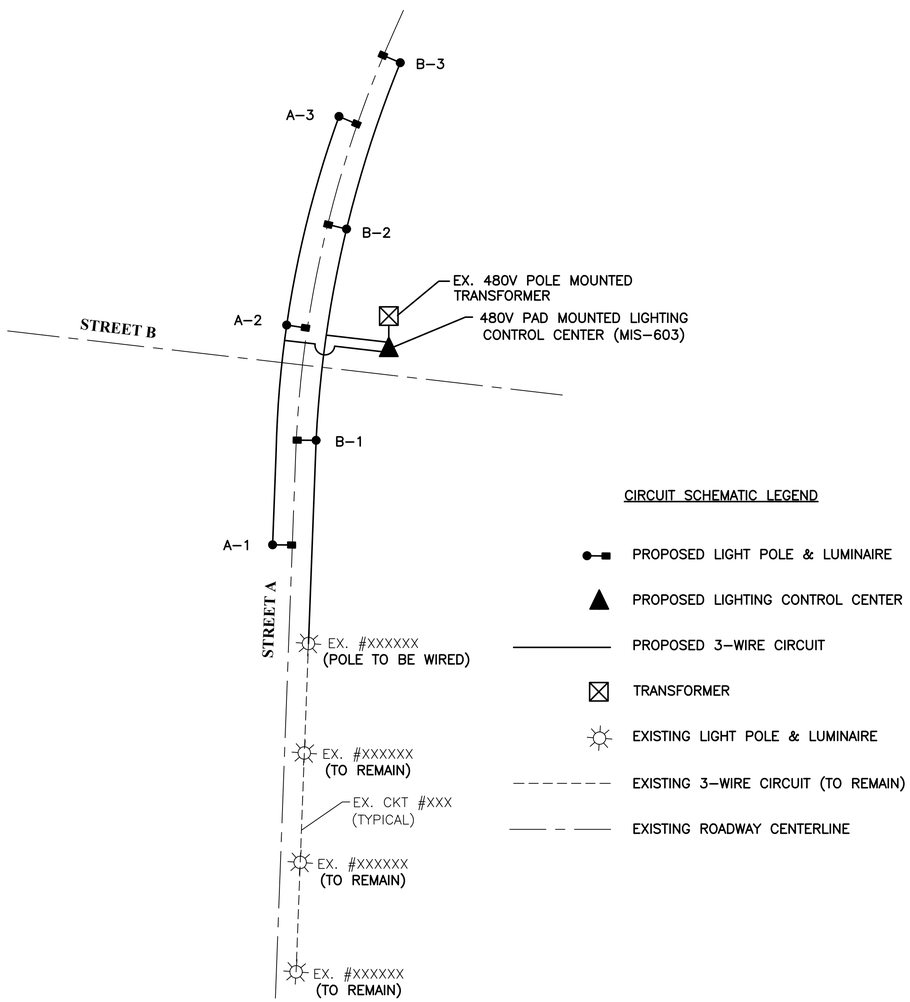
LIGHTING GENERAL NOTES

IMPROVEMENTS OF...
STREET A FROM STREET B TO STREET C

XXXX-E

X
XX

CIRCUIT SCHEMATIC



CIRCUIT SCHEMATIC LEGEND

- PROPOSED LIGHT POLE & LUMINAIRE
- PROPOSED LIGHTING CONTROL CENTER
- PROPOSED 3–WIRE CIRCUIT
- TRANSFORMER
- EXISTING LIGHT POLE & LUMINAIRE
- EXISTING 3–WIRE CIRCUIT (TO REMAIN)
- EXISTING ROADWAY CENTERLINE

LIGHTING CONTROLLER SCHEDULE

CONTROL CENTER	LEG	LUMINAIRE QTY.	APPROX. LOAD		CIRCUIT FUSE	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
			APPROX. WATTS	APPROX. AMPS			
480V PAD MOUNTED LIGHTING CONTROL CENTER (MIS–603)	A	3	300	0.7	15 A	4	CITY OF COLUMBUS
	B	7	700	1.6	15 A	4	
TOTAL		10	1,000	2.3			

**NOTE TO DESIGNER: THE INFORMATION LISTED IN THE TABLE ABOVE IS GIVEN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNER TO CALCULATE NEW VALUES FOR THE SPECIFIC LIGHTING DESIGN THAT IS PROPOSED BY A NEW PLAN.

N

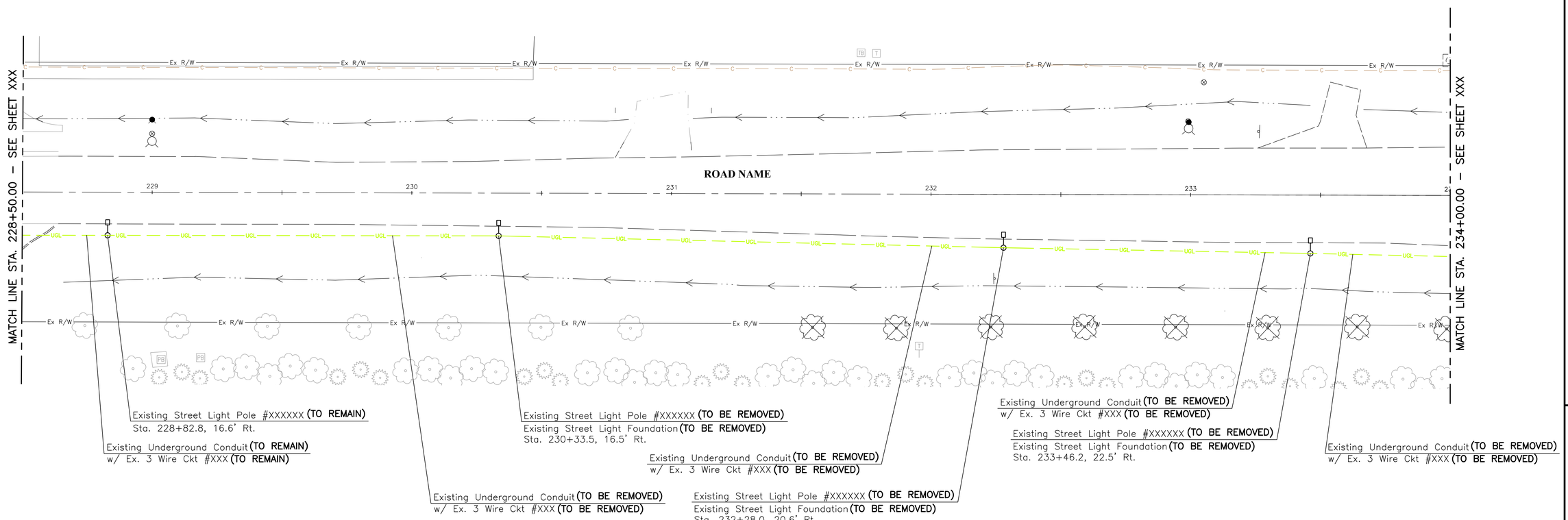
CALCULATED ABC
CHECKED ABC

LIGHTING PLAN DETAILS

IMPROVEMENTS OF...
STREET A FROM STREET B TO STREET C

XXXX-E

X
XX



STREET LIGHTING LEGEND

UGL — EXISTING LIGHTING CONDUIT (AS NOTED) W/ EX. 3 WIRE CIRCUIT CABLE (AS NOTED)

EXISTING STREET LIGHT POLE (AS NOTED)

N

0 10 20 40
1 Inch = 20 Feet

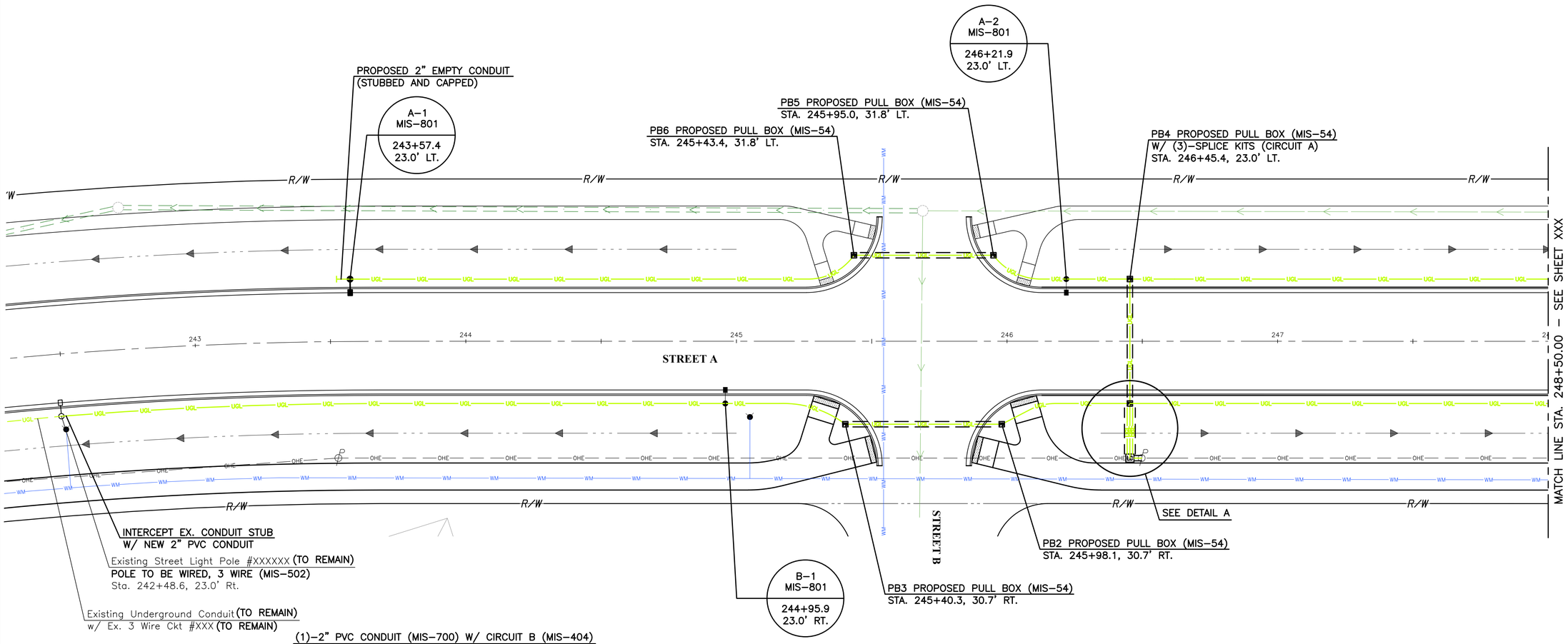
CALCULATED ABC
CHECKED ABC

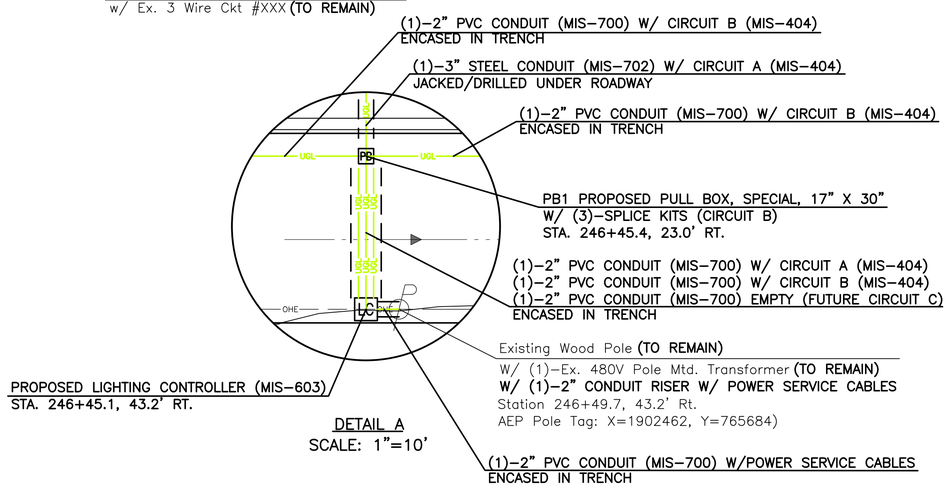
LIGHTING PLAN DEMOLITION PLAN

IMPROVEMENTS OF...
STREET A FROM STREET B TO STREET C

XXXX-E

X
XX





DETAIL A
SCALE: 1"=10'

STREET LIGHTING LEGEND

- PROPOSED LIGHT POLE, GREEN (MIS-305) W/ LED TEARDROP LUMINAIRE, GREEN (MIS-801)
- PROPOSED PULL BOX (MIS-54, UNLESS OTHERWISE NOTED)
- UGL — PROPOSED 2" PVC CONDUIT IN TRENCH (MIS-700) W/ 3 WIRE CIRCUIT CABLE (MIS-404)
- UGL — PROPOSED 3" STEEL CONDUIT JACKED/DRILLED (MIS-702) W/ 3 WIRE CIRCUIT CABLE (MIS-404)
- LC — PROPOSED PAD MOUNTED, 3-WIRE CONTROL CENTER (MIS-603)
- UGL — EXISTING LIGHTING CONDUIT (TO REMAIN) W/ EX. 3 WIRE CIRCUIT CABLE (TO REMAIN)
- EXISTING STREET LIGHT POLE (TO REMAIN)

N

1 inch = 20 feet

CALCULATED ABC
CHECKED ABC

LIGHTING PLAN

IMPROVEMENTS OF...
STREET A FROM STREET B TO STREET C

XXXX-E

X
XX

LUMINAIRE SCHEDULE

Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
Varies (Select from MIS)	Varies	Varies	Varies	Varies	Varies (From Manufacturer)	Varies

STATISTICS

Description	Roadway Classification	Avg	Max	Min	Max/Min	Avg/Min
Target	Arterial, Local	0.9 fc	-	-	-	3.0:1
Street A	Arterial, Local	0.9 fc	3.4 fc	0.3 fc	11.3:1	3.0:1

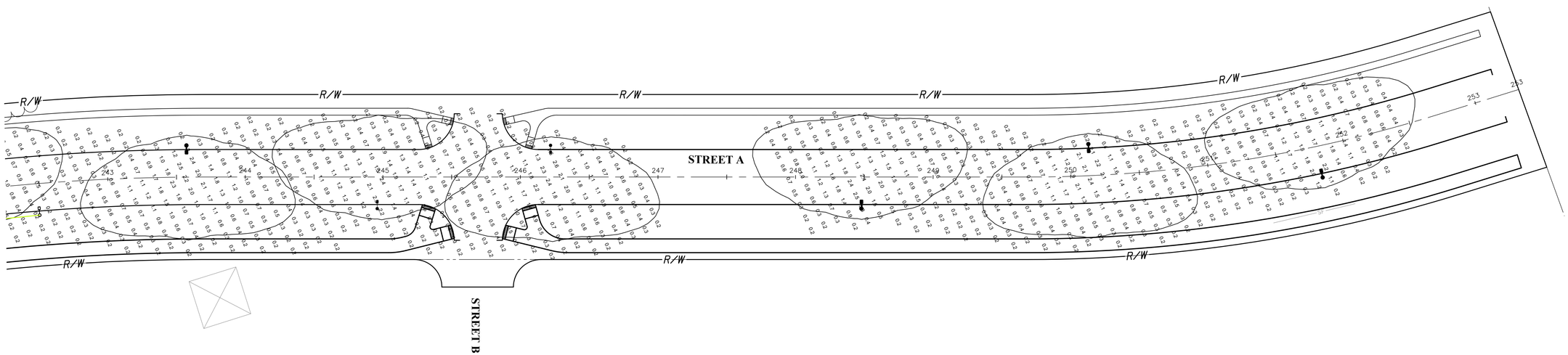
PHOTOMETRIC REQUIREMENTS

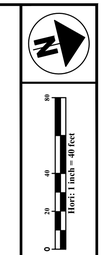
Street light pole placement for this project was based on a photometric analysis using (insert design luminaire here). The results of this photometric analysis are detailed within on the included photometric plan sheets. If the specified design luminaires are used for the project, no additional documentation from the Contractor is needed. If one of the other manufacturers as permitted by the City of Columbus Standard MIS Specification is selected for use by the Contractor, the following shall be submitted by the Contractor to the City for review and approval by the City.

–Photometric analysis documenting that the selected luminaire meets the average foot–candle requirements listed in the Photometric Results Table (+/– 0.1 fc) and the average/minimum uniformity ratio meets or exceeds the requirements listed in the Photometric Results Table, using the pole locations as detailed in the plan set.

–Cutsheet of the proposed luminaire indicating that the standard operating wattage is equal to or less than that of the design luminaire.

The Contractor shall contact the City to receive the photometric file used by the project, if needed.





CALCULATED ABC

CHECKED ABC

LIGHTING PLAN PHOTOMETRICS

IMPROVEMENTS OF...

STREET A FROM STREET B TO STREET C

XXXX-E

X / XX