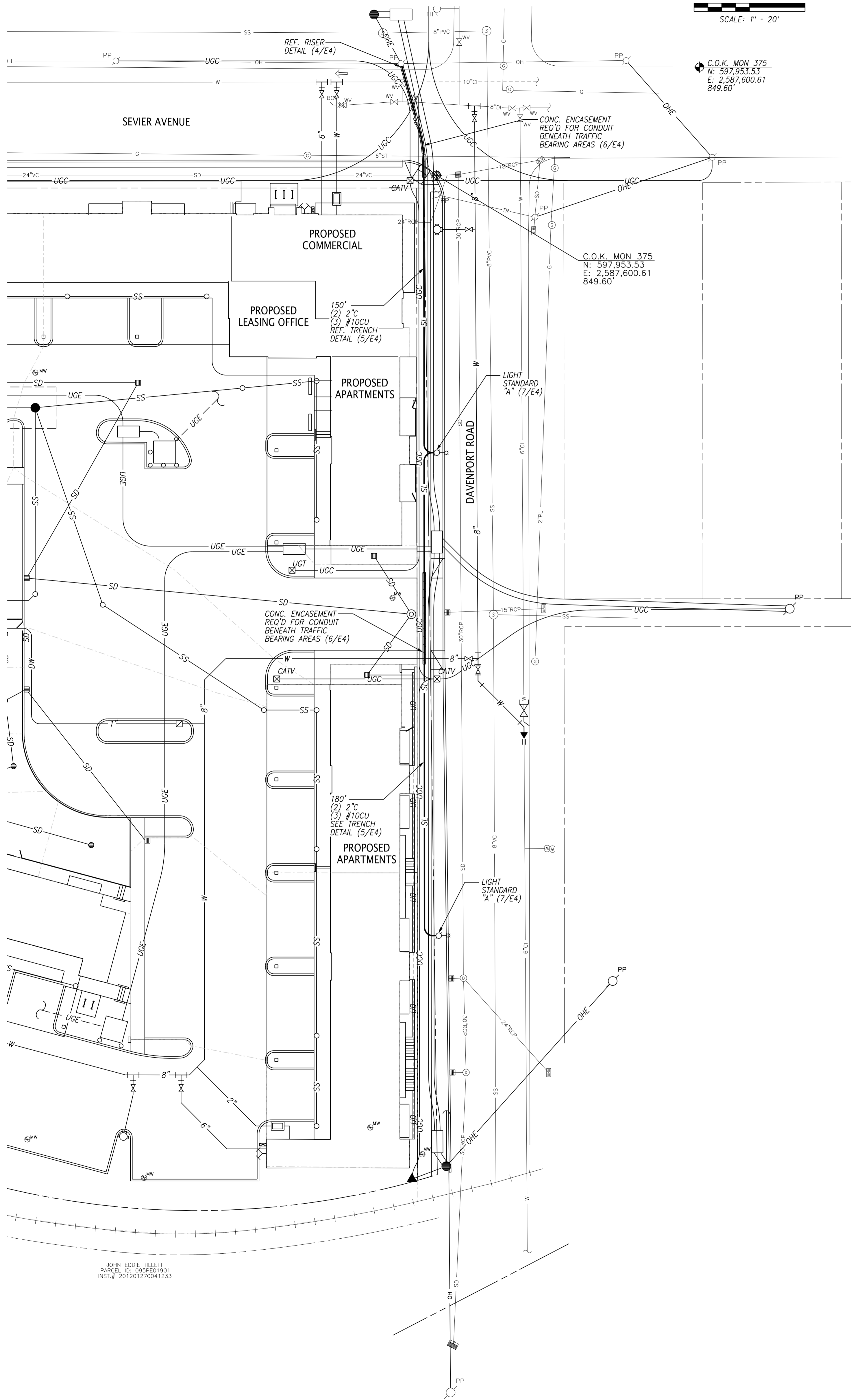
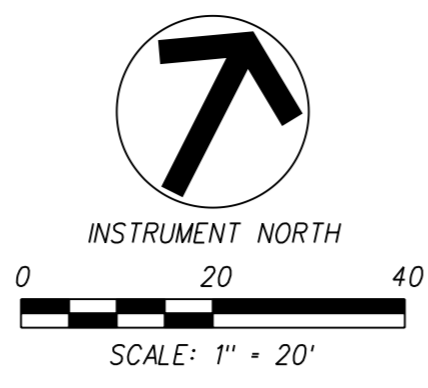
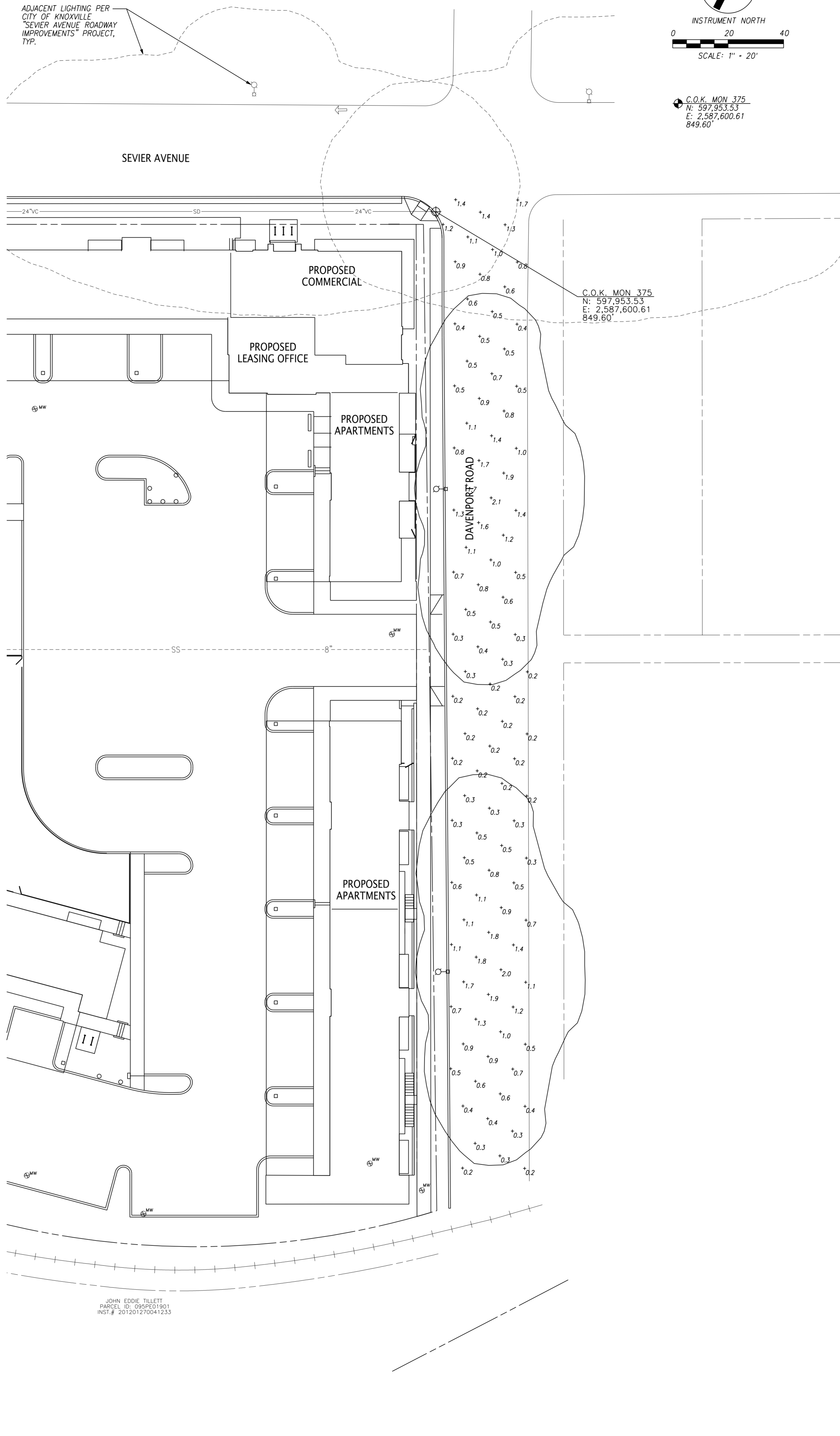


LUMINAIRE SCHEDULE					
LIGHT STANDARD	LUMINAIRE MANUFACTURER	LAMP CATALOG NUMBER	LAMP TYPE	LAMP DESCRIPTION	NOMINAL POWER (WATTS)
A	AMERICAN ELECTRIC LIGHTING	ATBS-H-MVOLT-R2-3K-NL-P7	LED	TYPE II	60



STREET LIGHTING PLAN



PHOTOMETRIC LAYOUT

LIGHTING NOTES:

- MAXIMUM VOLTAGE DROP SHALL BE LIMITED TO 5%.
- WORK SHALL CONFORM TO NATIONAL, STATE, & LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN APPLICABLE CODES, CONTACT THE AUTHORITY HAVING JURISDICTION FOR CLARIFICATION.
- ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS & FEES RELATIVE TO THE INSTALLATION OF HIS OR HER WORK.
- LIGHTING INSTALLATIONS MUST BE INSPECTED BY THE CITY OF KNOXVILLE. COORDINATE WITH OWNER REPRESENTATIVE AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FURNISH AND INSTALL SPECIFIED EQUIPMENT OR APPROVED EQUAL. ADDITIONAL EQUIPMENT SUCH AS JUNCTION BOXES, HANGERS, OR FITTINGS MAY BE REQUIRED FOR A COMPLETE AND WORKING ELECTRICAL SYSTEM. WHETHER OR NOT SUCH EQUIPMENT IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED.
- EXACT LOCATION OF EQUIPMENT AND ACCESSORIES SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS. INSTALLATION MUST COMPLY WITH CLEARANCES SPECIFIED BY NEC, MANUFACTURERS SPECIFICATIONS, AND APPLICABLE CODES.
- LOCATE JUNCTION BOXES, TRANSFORMERS, ETC. OUTSIDE OF PAVED AREAS UNLESS OTHERWISE NOTED.
- ALL SECONDARY ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL BE UNDERWRITER'S LABORATORY (UL) LISTED AND LABELED.
- ELECTRICAL CONDUCTORS SHALL BE TYPE THWN-2 OR APPROVED EQUAL EXCEPT WHERE OTHERWISE NOTED.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT WHERE OTHERWISE NOTED. EXPOSED CONDUIT SUCH AS RISERS SHALL BE SCH 80 PVC OR RGS THAT EXTENDS A MINIMUM OF 18 INCHES BELOW GRADE.
- CONDUCTORS SHALL BE PROPERLY TERMINATED AND NEATLY LABELED. JUNCTION BOXES AND PANELBOARDS SHALL BE LABELED USING TYPED LEGENDS TO CLEARLY INDICATE THE CIRCUITS CONTAINED.
- CONTRACTOR SHALL MEGGER TEST FEEDERS #4 AND LARGER AFTER INSTALLATION.
- UTILITIES SHALL BE INSTALLED AFTER GRADING IS COMPLETED. INSTALLATION SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION BEFORE PAYMENT IS INSTALLED.
- THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY POTHOLING AND BY CONTACTING THE UTILITY COMPANIES INVOLVED.
- PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT TO WORK OVER AND AROUND THE UTILITIES AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- TRENCH DESIGN AND SAFETY FOR UNDERGROUND CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- ADEQUATE DRAINAGE, EROSION, AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- REFERENCE SHEET C8 FOR UTILITY NOTES AND OWNER INFORMATION.

ILLUMINATION STATISTICS					
AREA	AVERAGE	MAXIMUM	MINIMUM	MAX/MIN	AVG/MIN
DAVENPORT ROAD	0.8 fc	2.1 fc	0.2 fc	10.5:1	4.0:1

NOTE: ILLUMINATION CALCULATIONS BASED ON 10'x10' GRID.

LEGEND:

- ILLUMINANCE CONTOUR
- CALCULATED ILLUMINANCE VALUE
- PROPOSED STREETLIGHT POLE
- PROPOSED STREET LIGHTING CONDUIT
- PROPOSED CABLE TELEVISION ENCLOSURE
- PROPOSED TELEPHONE ENCLOSURE
- PROPOSED COMMUNICATIONS RISER POLE
- PROPOSED UNDERGROUND COMMUNICATIONS CONDUIT
- PROPOSED UNDERGROUND HANDHOLE/VAULT
- PROPOSED ELECTRIC RISER POLE
- PROPOSED UNDERGROUND ELECTRIC CONDUIT (NO ENCASEMENT)
- PROPOSED ELECTRICAL CONCRETE ENGAGED DUCT BANK
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- EXISTING GAS LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- PROPERTY LINE
- 100' (1) 2" 100 LINEAR FEET OF SINGLE 2" CONDUIT
- CU COPPER
- TYP. TYPICAL
- (21/C9) DETAIL REF. (DETAIL NO./SHT NO.)



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STREET LIGHTING PLAN
AND PHOTOMETRIC LAYOUT

PROJ. MGR.	DESIGNED BY	DRAWN BY	DATE
AMG	AMG	AMG	03/08/19
ISSUED FOR CONSTRUCTION	Revision/Issue	No.	

Project Sheet
431 008
Date 03/08/19
Scale 1" = 20'

