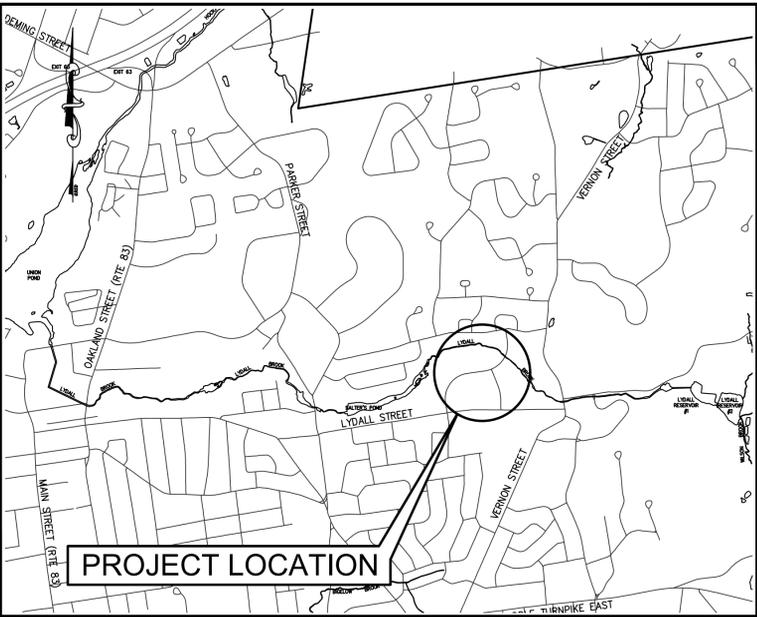


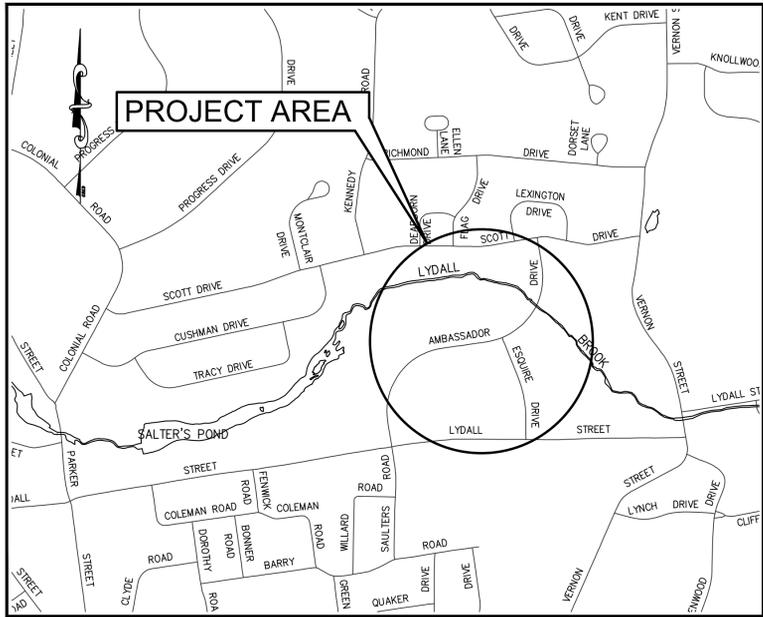
TOWN OF MANCHESTER

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION



LOCATION MAP
1" = 1500'



SITE MAP
1" = 600'

LIGHTING IMPROVEMENTS

AMBASSADOR DRIVE AND ESQUIRE DRIVE

JANUARY 2026

REVISED MARCH 20, 2026

DESIGN STANDARD : TOWN OF MANCHESTER PUBLIC IMPROVEMENT STANDARDS, EFFECTIVE DATE OCTOBER 31, 2020, AS AMENDED

DATUMS : HORIZONTAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK (NAD83 AS ESTABLISHED IN 1998)
VERTICAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK (NAVD88 USING GEOID 96)

STANDARD SPECIFICATIONS : SEE CONTRACT DOCUMENTS

DESIGN SCALES : PLAN: 1" = 40'
OTHER SCALES AS NOTED

LIST OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	SITE PLANS
4	DETAILS



TOWN OF MANCHESTER
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 494 MAIN STREET - P.O. BOX 191
 MANCHESTER, CT 06045-0191

LEGEND

---	WETLAND BOUNDARY	☆	LIGHT POLE
---	RETAINING WALL	⊗	CONIFEROUS TREE
----	STONE WALL	⊙	DECIDUOUS TREE
----	STOCKAGE FENCE	⊕	SANITARY MANHOLE
----	WIRE FENCE	⊖	DRAINAGE MANHOLE
----	CHAIN LINK FENCE	⊗	CATCH BASIN
----	PROPERTY LINE	⊗	CULVERT END
----	RAILROAD TRACKS	⊗	HYDRANT
----	SILT FENCE	⊗	CURB STOP
⊠	CONCRETE MONUMENT	⊗	WATER VALVE
⊠	GRANITE MONUMENT	⊗	BUTTERFLY VALVE
⊠	IRON PIPE	⊗	BLOW OFF
⊠	IRON ROD	⊗	SIGN
⊠	CONTROL POINT	⊗	DOUBLE POST SIGN
⊠	DRILL HOLE	⊗	MAIL BOX
⊠	UTILITY POLE	⊗	ROLLARD
⊠	UTILITY POLE WITH LIGHT	⊗	CONTROLLER CABINET
⊠	TRAFFIC SPAN POLE	⊗	GAS GATE
⊠	ELECTRIC BOX	⊗	TELEPHONE BOX
⊠	WETLAND FLAG	⊗	CATV TUBE

PROJECT NUMBER
2025114

FILENAME
2025114-PLAN.DWG

NO.	DATE	FILE
---	01/15/26	FOR CONSTRUCTION

DRAWN BY: JL
 CHECKED BY: MR
 RELEASED BY: TB

DRAWING SCALE
 HORIZONTAL: 1" = 40'
 OR AS NOTED
 40 20 0 40
 GRAPHIC SCALE

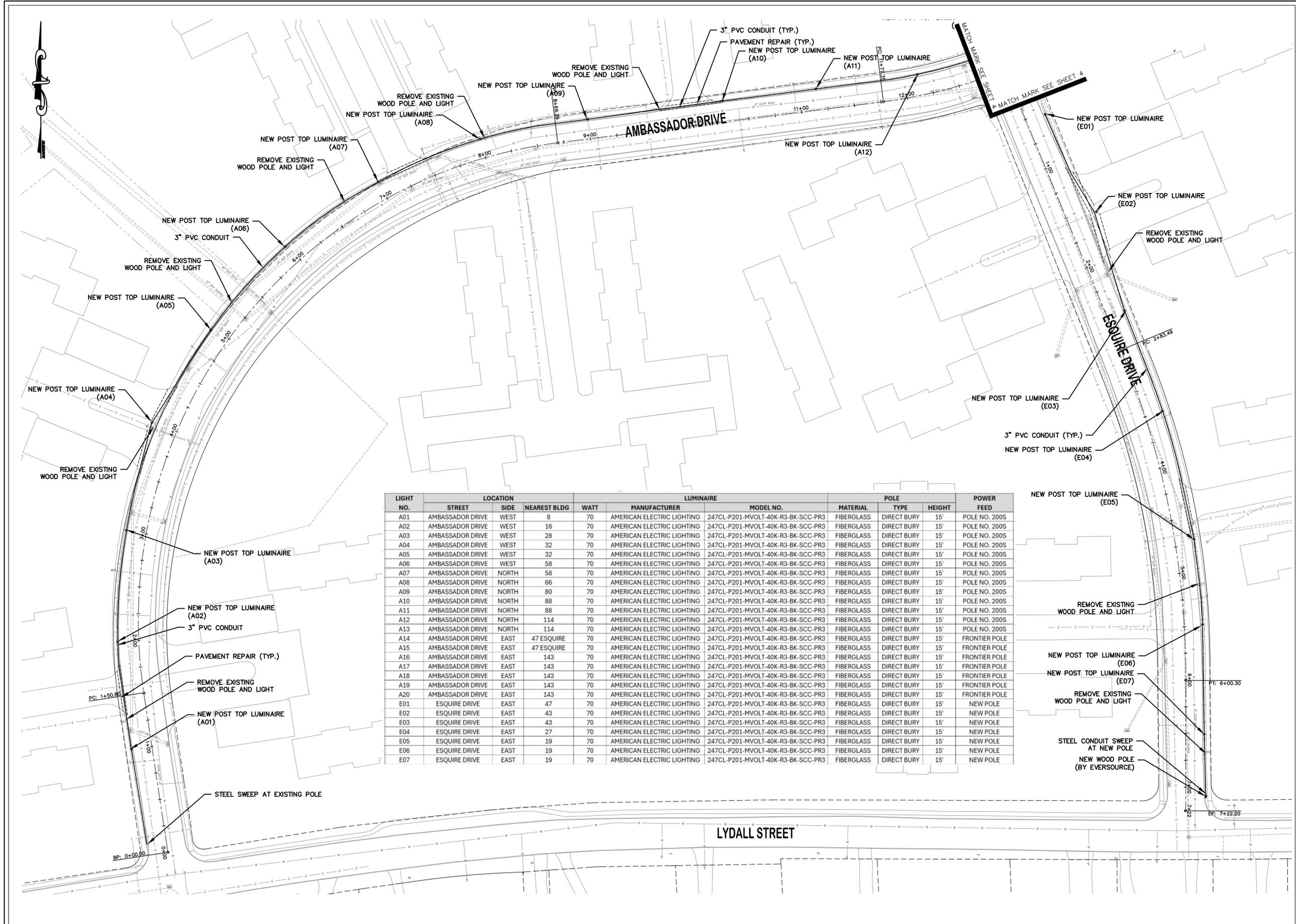
DATUM
 HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION
MANCHESTER, CT

PROJECT TITLE
**LIGHTING IMPROVEMENTS
 AMBASSADOR DRIVE
 AND ESQUIRE DRIVE**

SHEET TITLE
PLAN

SHEET NUMBER
2 of 4



LIGHT NO.	STREET	SIDE	NEAREST BLDG	WATT	MANUFACTURER	LUMINAIRE MODEL NO.	MATERIAL	POLE TYPE	HEIGHT	POWER FEED
A01	AMBASSADOR DRIVE	WEST	8	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A02	AMBASSADOR DRIVE	WEST	16	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A03	AMBASSADOR DRIVE	WEST	28	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A04	AMBASSADOR DRIVE	WEST	32	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A05	AMBASSADOR DRIVE	WEST	32	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A06	AMBASSADOR DRIVE	WEST	58	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A07	AMBASSADOR DRIVE	NORTH	58	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A08	AMBASSADOR DRIVE	NORTH	66	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A09	AMBASSADOR DRIVE	NORTH	80	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A10	AMBASSADOR DRIVE	NORTH	88	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A11	AMBASSADOR DRIVE	NORTH	88	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A12	AMBASSADOR DRIVE	NORTH	114	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A13	AMBASSADOR DRIVE	NORTH	114	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	POLE NO. 200S
A14	AMBASSADOR DRIVE	EAST	47 ESQUIRE	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A15	AMBASSADOR DRIVE	EAST	47 ESQUIRE	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A16	AMBASSADOR DRIVE	EAST	143	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A17	AMBASSADOR DRIVE	EAST	143	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A18	AMBASSADOR DRIVE	EAST	143	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A19	AMBASSADOR DRIVE	EAST	143	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
A20	AMBASSADOR DRIVE	EAST	143	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	FRONTIER POLE
E01	ESQUIRE DRIVE	EAST	47	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E02	ESQUIRE DRIVE	EAST	43	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E03	ESQUIRE DRIVE	EAST	43	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E04	ESQUIRE DRIVE	EAST	27	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E05	ESQUIRE DRIVE	EAST	19	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E06	ESQUIRE DRIVE	EAST	19	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE
E07	ESQUIRE DRIVE	EAST	19	70	AMERICAN ELECTRIC LIGHTING	247CL-P201-MVOLT-40K-R3-BK-SCC-PR3	FIBERGLASS	DIRECT BURY	15'	NEW POLE



TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

LEGEND

- - -	= WETLANDS BOUNDARY	☆	= LIGHT POLE
- - -	= RETAINING WALL	⊗	= CONIFEROUS TREE
- - -	= CURB WALL	⊗	= DECIDUOUS TREE
- - -	= STONE WALL	⊗	= SANITARY MANHOLE
- - -	= STOCKADE FENCE	⊗	= DRAINAGE MANHOLE
- - -	= WIRE FENCE	⊗	= CATCH BASIN
- - -	= CHAIN LINK FENCE	⊗	= CULVERT END
- - -	= PROPERTY LINE	⊗	= HYDRANT
- - -	= RAILROAD TRACKS	⊗	= CURB STOP
- - -	= SILT FENCE	⊗	= WATER VALVE
■	= CONCRETE MONUMENT	⊗	= BUTTERFLY VALVE
■	= GRANITE MONUMENT	⊗	= BLOW OFF
○	= IRON PIPE	⊗	= SIGN
●	= IRON ROD	⊗	= DOUBLE POST SIGN
△	= CONTROL POINT	⊗	= MAIL BOX
●	= DRILL HOLE	⊗	= BOLLARD
○	= UTILITY POLE	⊗	= CONTROLLER CABINET
○	= UTILITY POLE WITH LIGHT	⊗	= GAS GATE
⊗	= TRAFFIC SPAN POLE	⊗	= TELEPHONE BOX
⊗	= ELECTRIC BOX	⊗	= CATV TUBE
⊗	= WETLAND FLAG		

PROJECT NUMBER
2025114

FILENAME
2025114-PLAN.DWG

NO.	DATE	FILE
-	01/15/26	FOR CONSTRUCTION

DRAWN BY: JL
CHECKED BY: MR
RELEASED BY: TB

DRAWING SCALE
HORIZONTAL: 1" = 40' VERTICAL: ---
OR AS NOTED
40 20 0 40
GRAPHIC SCALE

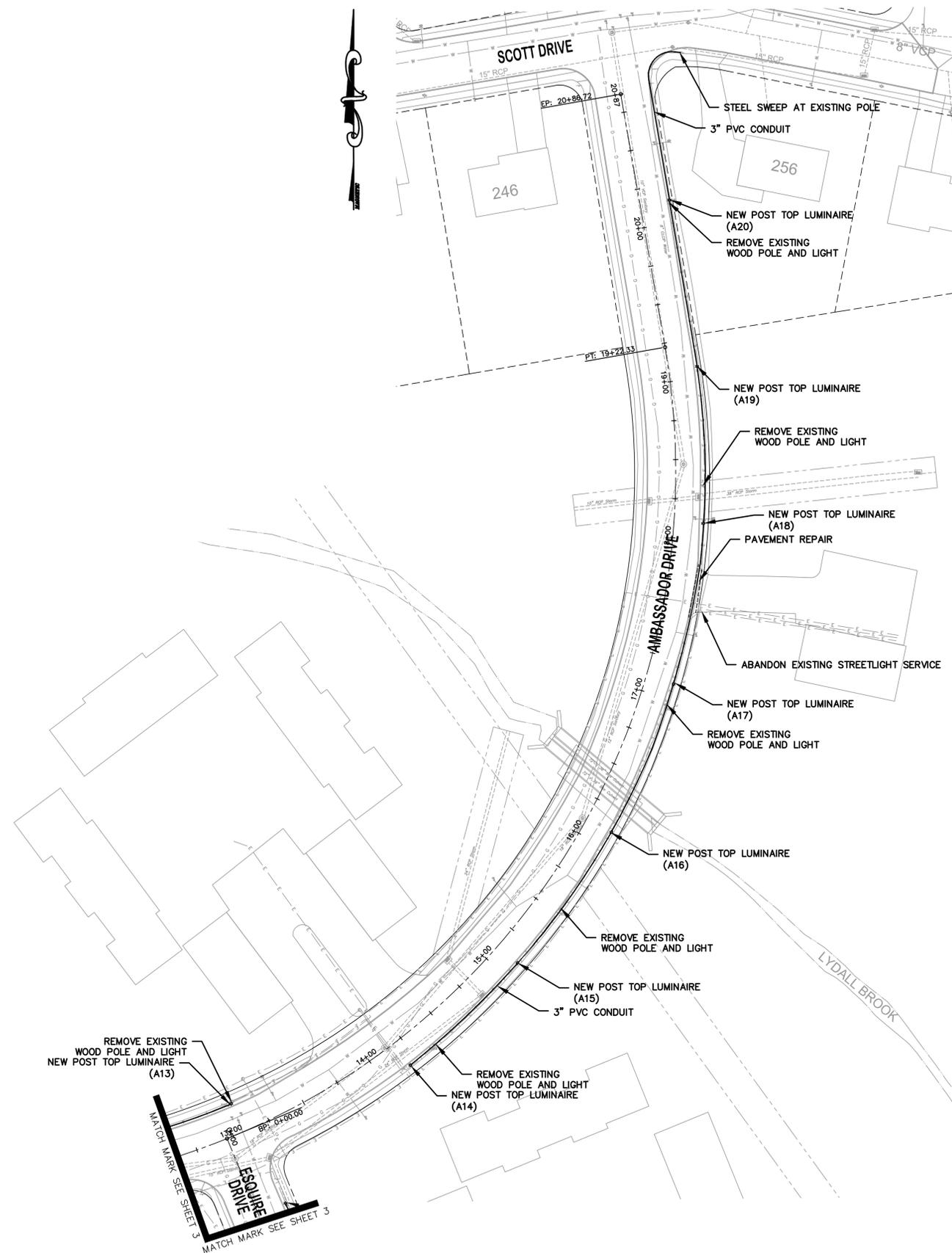
DATUM
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION
MANCHESTER, CT

PROJECT TITLE
**LIGHTING IMPROVEMENTS
AMBASSADOR DRIVE
AND ESQUIRE DRIVE**

SHEET TITLE
PLAN

SHEET NUMBER
3 of 4



American Revolution Full Cutoff LED Series 247CL

PRODUCT OVERVIEW



Applications:

- Streetscapes
- Walkways
- Pathways
- Parks



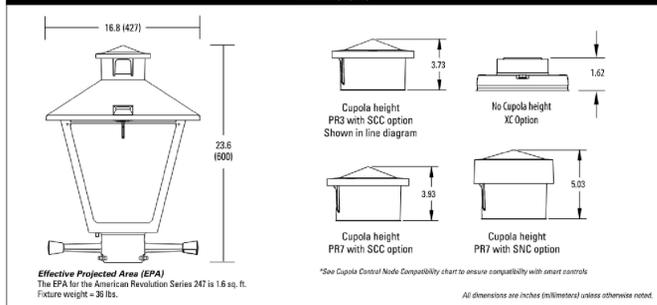
Features:

- Colonial LED lantern, replaces up to 250W HID models for street and area lighting applications
- Fifteen (15) LED performance packages deliver just the right amount of light for any given application up to 9,300 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Four (4) distinct light distribution options provide design flexibility, available in Type II, Type III, Type IV, and Type V
- Die-cast aluminum housing, engineered for sturdy lifelong performance
- Luminaire is rated for 3g vibration per ANSI C136.31
- Die-cast aluminum hood features a trigger latch (TL) option and captive thumb screws for fast, easy electrical and optical chamber access
- Standard paint finish is smooth gloss
- Housing is tenon pole-mounted and designed for use with a 3" tall by 2-3/8" to 3" diameter tenon, and secured by three set screws
- Rated LED and driver life greater than 100,000 hours at 25°C
- Surge protection device (standard) exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Enhanced (10kV/5kA)
- 20kV Option exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Extreme (20kV/10kA)
- Equipped with LED electronic 0-10V dimmable driver with DALI driver option

Standards:

- Complies with all applicable ANSI C136 standards.
- CSA listed and suitable for up to 40°C ambient
- Designlights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- GOVERNMENT PROCUREMENT** — BAA — Buy American Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
- BABA — Build America Buy America: Product with the BAA option also qualifies as manufactured in the United States under the definitions of the Buy America, Buy American Act. Please refer to www.buyusa.gov/buy-american for additional information.

DIMENSIONS



American Revolution LED Series 247CL

ORDERING INFORMATION

Example: 247CL P154 MVOLT 30K R3 BK SCC PR7

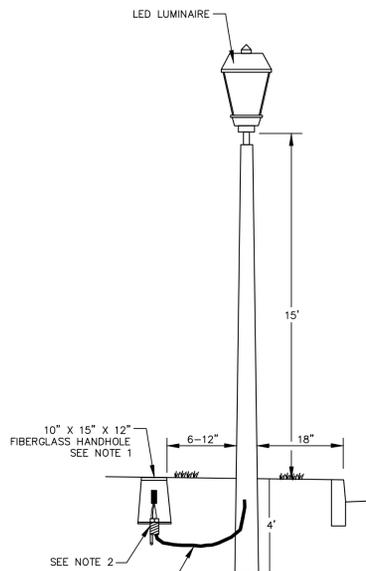
247CL	P201	MVOLT	40K																																																																			
Series	Performance Package	Voltage	Color Temperature (CCT)																																																																			
247CL American Revolution LED	<table border="1"> <thead> <tr> <th>Package</th> <th>Input/Watts</th> <th>Lumens (nominal)</th> </tr> </thead> <tbody> <tr><td>P101</td><td>20</td><td>2,300</td></tr> <tr><td>P102</td><td>30</td><td>3,100</td></tr> <tr><td>P103</td><td>40</td><td>4,000</td></tr> <tr><td>P104</td><td>49</td><td>4,800</td></tr> <tr><td>P151</td><td>30</td><td>3,500</td></tr> <tr><td>P152</td><td>40</td><td>4,300</td></tr> <tr><td>P153</td><td>50</td><td>5,200</td></tr> <tr><td>P154</td><td>60</td><td>6,000</td></tr> <tr><td>P155</td><td>70</td><td>6,800</td></tr> <tr><td>P201</td><td>70</td><td>7,400</td></tr> <tr><td>P202</td><td>80</td><td>8,100</td></tr> <tr><td>P300</td><td>41</td><td>4,800</td></tr> <tr><td>P301</td><td>60</td><td>7,000</td></tr> <tr><td>P302</td><td>70</td><td>7,800</td></tr> <tr><td>P303</td><td>80</td><td>8,600</td></tr> </tbody> </table>	Package	Input/Watts	Lumens (nominal)	P101	20	2,300	P102	30	3,100	P103	40	4,000	P104	49	4,800	P151	30	3,500	P152	40	4,300	P153	50	5,200	P154	60	6,000	P155	70	6,800	P201	70	7,400	P202	80	8,100	P300	41	4,800	P301	60	7,000	P302	70	7,800	P303	80	8,600	<table border="1"> <thead> <tr> <th>MVOLT</th> <th>120-277V</th> <th>27K</th> <th>2700K</th> </tr> <tr> <th>HVOLT</th> <th>347-480V</th> <th>30K</th> <th>3000K</th> </tr> <tr> <th>XVOLT</th> <th>277-480V with enhanced power quality protection</th> <th>40K</th> <th>4000K</th> </tr> </thead> </table>	MVOLT	120-277V	27K	2700K	HVOLT	347-480V	30K	3000K	XVOLT	277-480V with enhanced power quality protection	40K	4000K	<table border="1"> <thead> <tr> <th>Color Temperature (CCT)</th> </tr> </thead> <tbody> <tr><td>27K</td><td>2700K</td></tr> <tr><td>30K</td><td>3000K</td></tr> <tr><td>40K</td><td>4000K</td></tr> </tbody> </table>	Color Temperature (CCT)	27K	2700K	30K	3000K	40K	4000K
Package	Input/Watts	Lumens (nominal)																																																																				
P101	20	2,300																																																																				
P102	30	3,100																																																																				
P103	40	4,000																																																																				
P104	49	4,800																																																																				
P151	30	3,500																																																																				
P152	40	4,300																																																																				
P153	50	5,200																																																																				
P154	60	6,000																																																																				
P155	70	6,800																																																																				
P201	70	7,400																																																																				
P202	80	8,100																																																																				
P300	41	4,800																																																																				
P301	60	7,000																																																																				
P302	70	7,800																																																																				
P303	80	8,600																																																																				
MVOLT	120-277V	27K	2700K																																																																			
HVOLT	347-480V	30K	3000K																																																																			
XVOLT	277-480V with enhanced power quality protection	40K	4000K																																																																			
Color Temperature (CCT)																																																																						
27K	2700K																																																																					
30K	3000K																																																																					
40K	4000K																																																																					

R3	BK	SCC	PR3
Distribution	Paint (smooth gloss)	Cupola	Photocell Receptacle
R2 Type II	BK Black	SCC Standard cupola	NR No photocell receptacle
R3 Type III	GF Gray	SNC Smart node cupola	FR3 3 pin NEMA photocell
R4 Type IV	DOB Dark Bronze	XC No cupola	PR7 7 pin NEMA photocell
R5 Type V	WH White		
	BZ Bronze		

Options			
PCLL Solid State Long Life Photocell, 120-277V (fall off)	SS Stainless steel hardware	House-Side Shields	Accessory
P34 Solid State Long Life Photocell, 347V (fall off)	TL Tool-less trigger latch entry	HSS House Side Shield	House Side Shield shipped separately and installed in the field
P48 Solid State Long Life Photocell, 480V (fall off)	NL1X1 1" x 1" NEMA label	Prewired Leads	FHS15LEM10-15R2/R5 P10x or P15x package, R2 or R5 optic
CS5 Solid state photocell, 120-277V (Not CSA Listed) (fall on)	NL2X2 2" x 2" NEMA label	L03 3 ft. prewire leads	FHS15LEM10-15R3 P10x or P15x package, R3 optic
SH Shorting cap	XL Not CSA Listed	L10 10 ft. prewire leads	FHS15LEM20-30R2/R5 P20x or P30x package, R2 or R5 optic
A0 Field adjustable output module	LDR Ladder Rest	L20 20 ft. prewire leads	FHS15LEM20-30R3 P20x or P30x package, R3 optic
DALI DALI driver (RFID required)	CR Epoxy Pre-Coat Finish	L25 25 ft. prewire leads	FHS15LEM45R2/R5 P45x package, R2 or R5 optic
	20kV 20kV/10kA surge protection device	L30 30 ft. prewire leads	FHS15LEM45R3 P45x package, R3 optic
	BAA Buy American Act and/or Build America Buy America Qualified		

Note: Check the OPTIONS MATRIX on Page 3 for compatibility & restrictions

LUMINAIRE
NOT TO SCALE

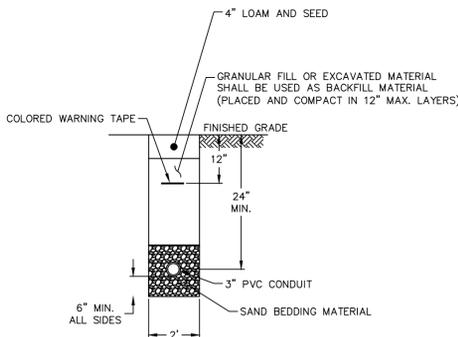


NOTES:

- FIBERGLASS HANDHOLE SHALL BE PENCELL MODEL PE14HDX005P3, CARSON MODEL 14191011, FARGO MODEL B-112A-G OR NEW BASIS MODEL SGA141912Y000.
- SECURE 90 DEGREE BENDS AND END OF FLEXIBLE CONDUIT TOGETHER WITH DUCT TAPE. TOP OF CONDUITS SHALL EXTEND NO MORE THAN 6 INCHES UP INTO THE ENCLOSURE. INSTALL 1/4" PULL ROPE WITH TAGS IDENTIFYING CONDUIT DESTINATION.
- INSTALL FLEXIBLE NON-METALLIC CONDUIT, 1-1/2" MAXIMUM O.D., AND EXTEND UP INTO POLE FOR STREETLIGHT CONDUCTORS. INSTALL 1/4" PULL ROPE FROM HANDHOLE TO TOP OF POLE.

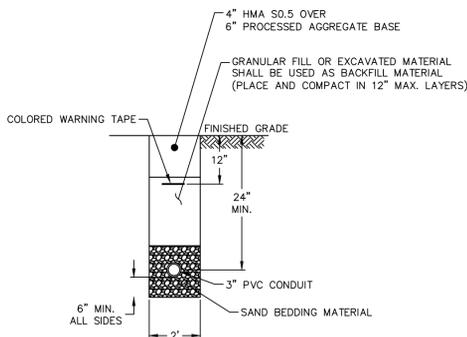
STREETLIGHT

NOT TO SCALE



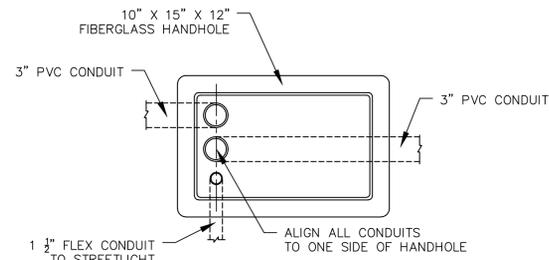
CONDUIT IN GRASS AREA

NOT TO SCALE



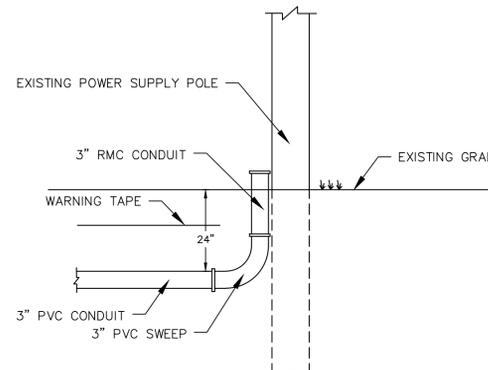
CONDUIT IN PAVED AREA

NOT TO SCALE



CONDUITS IN HANDHOLE

NOT TO SCALE



CONDUIT AT POWER SUPPLY POLE

NOT TO SCALE



TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

LEGEND

--- METLAND BOUNDARY	☆ LIGHT POLE
--- RETAINING WALL	⊗ CONIFEROUS TREE
--- STONE WALL	⊗ DEODOROUS TREE
--- STOCKADE FENCE	⊗ SANITARY MANHOLE
--- WIRE FENCE	⊗ DRAINAGE MANHOLE
--- CHAIN LINK FENCE	⊗ CATCH BASIN
--- PROPERTY LINE	⊗ CULVERT END
--- RAILROAD TRACKS	⊗ HYDRANT
--- SILT FENCE	⊗ CURB STOP
⊗ CONCRETE MONUMENT	⊗ WATER VALVE
⊗ GRANITE MONUMENT	⊗ BUTTERFLY VALVE
⊗ IRON PIPE	⊗ BLOW OFF
⊗ IRON ROD	⊗ SIGN
⊗ CONTROL POINT	⊗ DOUBLE POST SIGN
⊗ DRILL HOLE	⊗ MAIL BOX
⊗ UTILITY POLE	⊗ ROLLARD
⊗ UTILITY POLE WITH LIGHT	⊗ CONTROLLER CABINET
⊗ TRAFFIC SPAN POLE	⊗ GAS GATE
⊗ ELECTRIC BOX	⊗ TELEPHONE BOX
⊗ METLAND FLAG	⊗ CATV TUBE

PROJECT NUMBER

2025114

FILENAME

2025114-PLAN.DWG

NO.	DATE	FILE
---	01/15/26	FOR CONSTRUCTION

DRAWN BY: JL

CHECKED BY: MR

RELEASED BY: TB

DRAWING SCALE	
HORIZONTAL: 1" = 40'	VERTICAL: ---
OR AS NOTED	
40	20 0 40
GRAPHIC SCALE	

DATUM
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

MANCHESTER, CT

PROJECT TITLE
**LIGHTING IMPROVEMENTS
AMBASSADOR DRIVE
AND ESQUIRE DRIVE**

SHEET TITLE

DETAILS

SHEET NUMBER

4 of 4