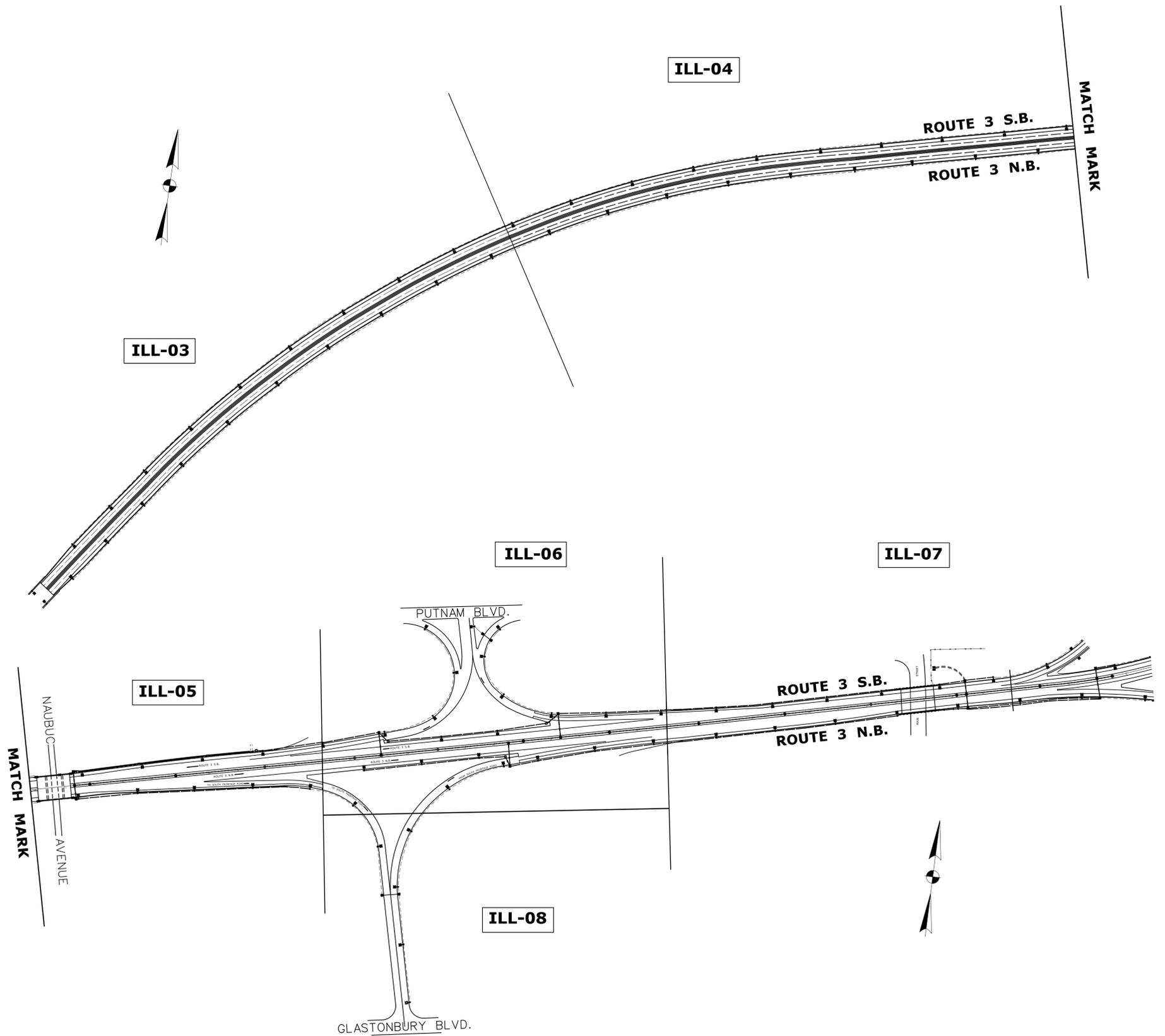
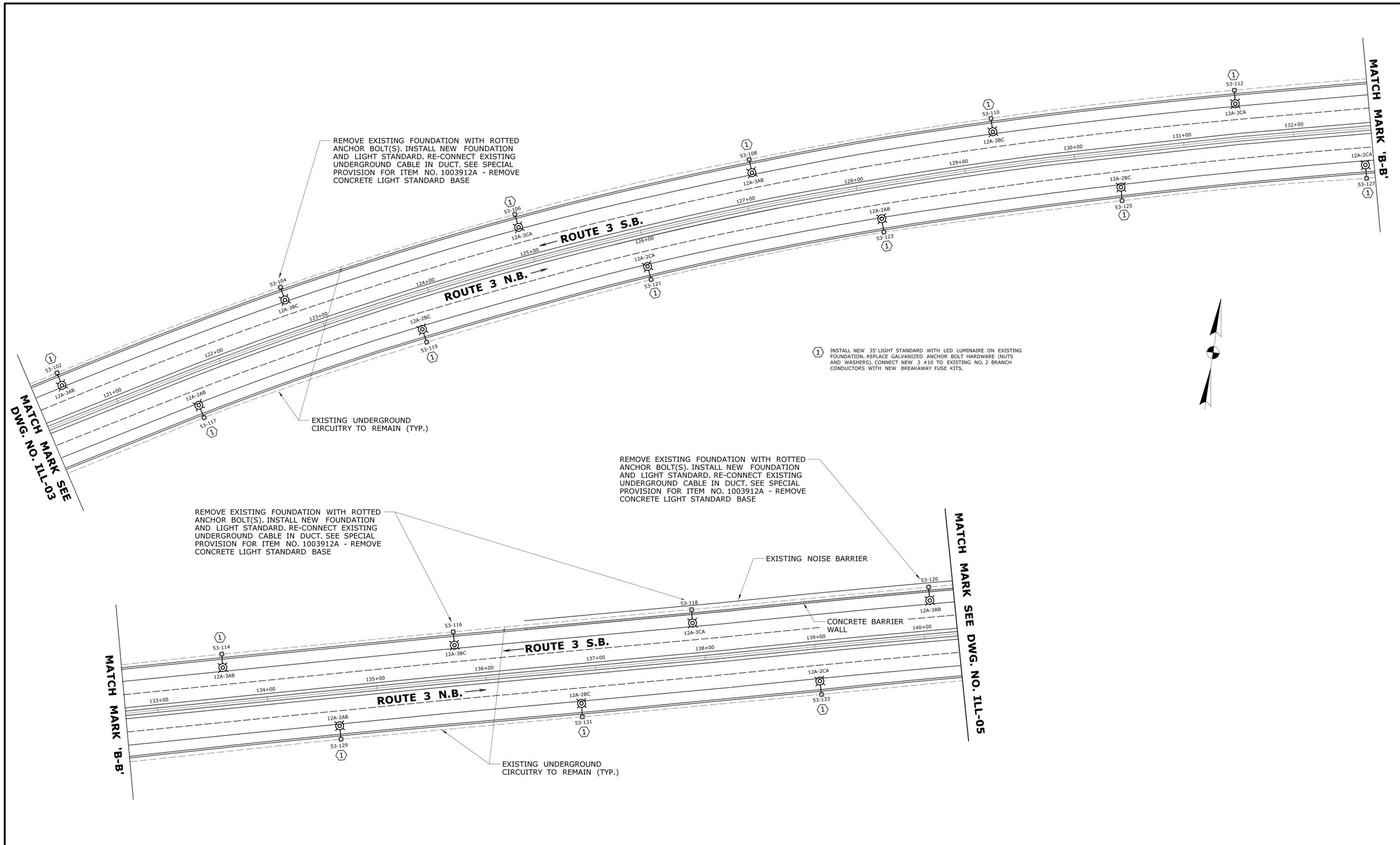


GENERAL NOTES

- 1) THE CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT ANY PORTION OF THE ROADWAY WHICH HAS EXISTING ILLUMINATION AND IS OPEN FOR USE REMAINS LIGHTED. THE LIGHTING MAY CONSIST OF: 1) EXISTING LIGHTING, 2) NEW LIGHTING, 3) TEMPORARY LIGHTING, OR ANY COMBINATION OF THE ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STAGE THE INSTALLATION OF NEW LIGHTING AND SERVICE CABINETS SO THAT ALL ROADWAYS WITH EXISTING ILLUMINATION ARE CONTINUOUSLY LIGHTED. IF IT IS NECESSARY TO INSTALL TEMPORARY POLES, LIGHTS OR CIRCUITRY, THAT WORK SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO INSTALLATION, AND WILL BE PAID FOR AT THE BID UNIT PRICE FOR THESE ITEMS. WHERE INSTALLED, TEMPORARY LIGHTING SHALL BE SPACED SO AS TO MAINTAIN EXISTING ROADWAY LIGHTING AND UNIFORMITY LEVELS. THE CONTRACTOR SHALL MAINTAIN ALL LIGHTING THROUGHOUT THE DURATION OF THE PROJECT. SEE SECTION 10.00 FOR SPECIFIC REQUIREMENTS.
- 2) ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CONNECTICUT STANDARD SPECIFICATIONS, AND WHERE APPLICABLE, UTILITY COMPANY REGULATIONS.
- 3) ALL "COBRA HEAD" TYPE ROADWAY LUMINAIRES SHALL BE RATED I.E.S. FULL-CUTOFF.
- 4) CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW AND RATED FOR 600 VOLTS. INSULATION SHALL BE COLORED CROSS LINKED POLYETHYLENE (XLP). THREE PHASE CIRCUIT COLORS SHALL BE AS FOLLOWS: BLUE, BLACK, RED.
- 5) INSTALL ONE NUMBER 8 BARE COPPER GROUNDING CONDUCTOR THROUGHOUT ALL LIGHTING CIRCUITS.
- 6) LOCATION OF EXISTING ILLUMINATION ON PLANS IS APPROXIMATE.
- 7) TAPE ALL UNUSED CONDUCTORS.
- 8) FOR EXISTING ILLUMINATION SEE STATE PROJECT 53-140.
- 9) THE CONTRACTOR SHALL ABIDE BY THE CONNDOT LOCKOUT/TAGOUT PROCEEDURES WHEN ACCESS TO A CIRCUIT IS REQUIRED. THE CONTRACTOR SHALL CONTACT THE DISTRICT ELECTRICAL SUPERVISOR AT TELEPHONE (860) 566-3156, WHEN ACCESS TO A CIRCUIT IS REQUIRED.
- 10) IN AREAS WHERE EXISTING LIGHT STANDARDS ARE TO BE REMOVED, EXISTING UNDERGROUND CABLE IN DUCT OR NON-METALLIC SHEATHED CABLE WHICH WILL NO LONGER BE USED, SHALL BE DISCONNECTED AND ABANDONED IN PLACE.
- 11) WHERE EXISTING R.M.C. IS TO BE RE-USED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING CONDUCTORS WITHIN THE CONDUIT.
- 12) PRIOR TO TRENCHING THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AND HAVE ALL EXISTING UNDERGROUND ELECTRICAL FACILITIES PROPERLY MARKED OUT INCLUDING BUT NOT LIMITED TO: TRAFFIC SIGNAL AND INTERCONNECT CABLES, INCIDENT MANAGEMENT SYSTEM AND FIBER OPTIC CABLES, AND EXISTING ILLUMINATION CIRCUITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL EXISTING FACILITIES DAMAGED BY HIS TRENCHING OPERATION.
- 13) LIGHT STANDARD FOUNDATIONS SHALL BE INSTALLED AS FOLLOWS:
 - A - 4' BEHIND EDGE OF PAVEMENT (DISTANCE TO CENTERLINE OF POLE)
 - B - 7' BEHIND EDGE OF PAVEMENT (DISTANCE TO CENTERLINE OF POLE)
 - C - CENTERED BETWEEN NOISE WALL AND CONCRETE BARRIER CURB
- 14) ALL CONDUCTOR SPLICES IN CONCRETE HANDHOLES SHALL BE MADE WITH INSULATED SUBMERSIBLE CONNECTORS.
- 15) WHERE CONDUCTORS ARE TO BE PULLED INTO EXISTING OR NEW CONDUIT, THE COST OF FURNISHING AND INSTALLING THE PULL-LINE SHALL BE INCLUDED IN THE COST OF THE CONDUCTORS.
- 16) WHEN TRENCHING AND INSTALLING CONDUIT ACROSS ENTRANCE/EXIT RAMPS, THE CONTRACTOR SHALL RECONSTRUCT THE ROADWAY TO MATCH EXISTING PAVEMENT STRUCTURE. ALL TRENCHES IN PAVED AREAS SHALL HAVE A MINIMUM OF 12" OF PROCESSED AGGREGATE AS A SUB-BASE LAYER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEM FOR "TRENCHING AND BACKFILLING" (ITEM NO. 1001001).
- 17) WHERE A HANDHOLE OR LIGHT STANDARD ANCHORAGE IS INSTALLED ADJACENT TO A BRIDGE WINGWALL, THE CONTRACTOR SHALL INSTALL 2 1/2" PVC FROM THE RMC SWEEP FROM THE WINGWALL TO THE HANDHOLE/FOUNDATION.
- 18) ALL PVC CONDUIT SHALL BE SCHEDULE 80.
- 19) THE EXISTING LIGHTING CIRCUITRY IS 480 VOLT, 3 PHASE, 3 WIRE. THE EXISTING LIGHTING CONTROL CABINET IS LOCATED ON MAIN STREET IN GLASTONBURY.
- 20) AN EQUIPMENT GROUND SHALL BE CONNECTED TO EACH LED LUMINAIRE AND SHALL BE BONDED TO THE GROUNDING SYSTEM LOCATED IN THE LIGHT POLE BASE. THE EQUIPMENT GROUND IS REQUIRED TO BE INSTALLED FOR ALL LED LUMINAIRES INCLUDING THOSE INSTALLED ON EXISTING LIGHT POLES. THE GROUNDING CONDUCTOR SHALL BE PAID FOR AS PART OF THE LUMINAIRE ITEM.
- 21) WHERE A NEW LIGHT STANDARD IS TO BE INSTALLED ON AN EXISTING FOUNDATION. THE CONTRACTOR SHALL INSTALL NEW TAP CONDUCTORS (3 #10) AND NEW BREAKWAY FUSE KITS AND FUSES, TO BE PAID FOR UNDER THE ITEM FOR LED LUMINAIRE.



THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MSB	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: PAVEMENT PRESERVATION ON ROUTE 3	TOWN: WETHERSFIELD GLASTONBURY	PROJECT NO. 159-192
CHECKED BY: JA	SCALE IN FEET 0 200 400 SCALE 1"=200'	APPROVED BY: 		DRAWING NO. ILL-02		SHEET NO. 07.02	
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 11/9/2015	Filename: ...\\engineering_data\ILL-02.dgn		DRAWING TITLE: ILLUMINATION INDEX PLAN AND NOTES				



MATCH MARK SEE DWG. NO. ILL-03

MATCH MARK 'B-B'

MATCH MARK SEE DWG. NO. ILL-05

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/9/2015

DESIGNER/DRAFTER: MSB
 CHECKED BY: JA
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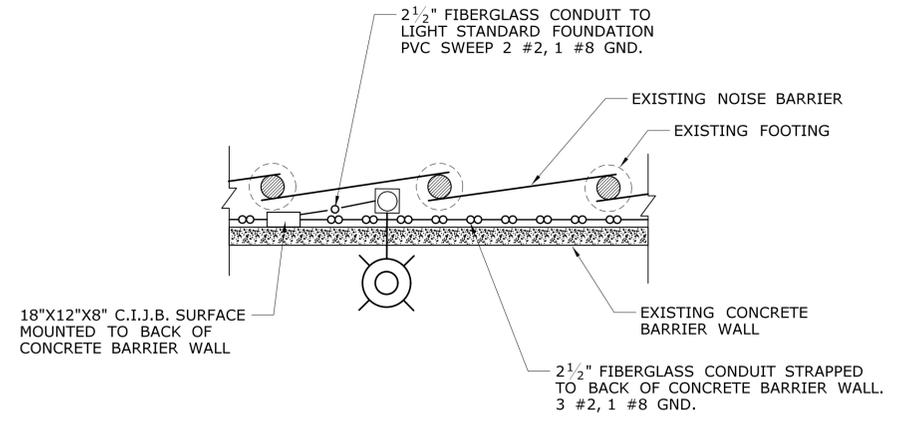
STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:
 OFFICE OF ENGINEERING
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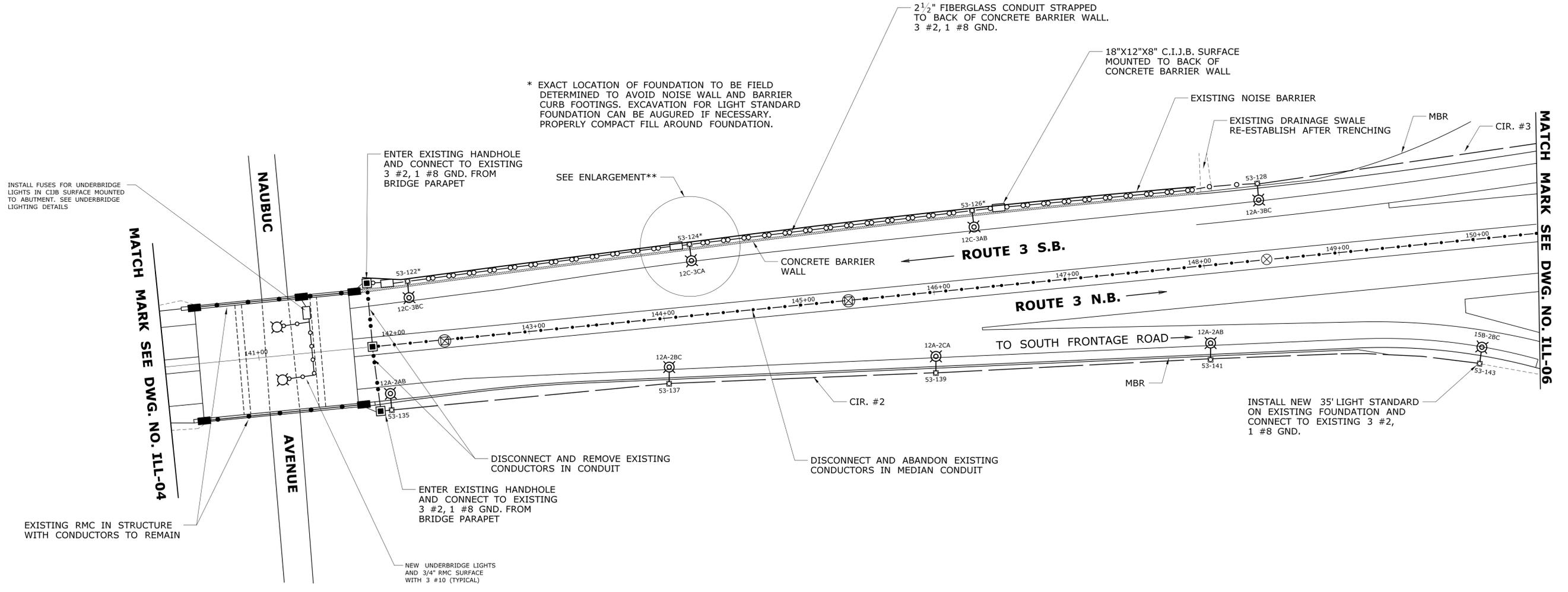
PROJECT TITLE:
PAVEMENT PRESERVATION ON ROUTE 3

TOWN:
WETHERSFIELD GLASTONBURY
 DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO.
159-192
 DRAWING NO.
ILL-04
 SHEET NO.
07.04



****LIGHT STANDARD INSTALLATION BEHIND CONCRETE BARRIER WALL**



INSTALL FUSES FOR UNDERBRIDGE LIGHTS IN C.I.B. SURFACE MOUNTED TO ABUTMENT. SEE UNDERBRIDGE LIGHTING DETAILS

MATCH MARK SEE DWG. NO. ILL-04

NAUBUC AVENUE

EXISTING RMC IN STRUCTURE WITH CONDUCTORS TO REMAIN

ENTER EXISTING HANDHOLE AND CONNECT TO EXISTING 3 #2, 1 #8 GND. FROM BRIDGE PARAPET

SEE ENLARGEMENT**

* EXACT LOCATION OF FOUNDATION TO BE FIELD DETERMINED TO AVOID NOISE WALL AND BARRIER CURB FOOTINGS. EXCAVATION FOR LIGHT STANDARD FOUNDATION CAN BE AUGURED IF NECESSARY. PROPERLY COMPACT FILL AROUND FOUNDATION.

2 1/2" FIBERGLASS CONDUIT STRAPPED TO BACK OF CONCRETE BARRIER WALL. 3 #2, 1 #8 GND.

18"X12"X8" C.I.J.B. SURFACE MOUNTED TO BACK OF CONCRETE BARRIER WALL

EXISTING NOISE BARRIER

EXISTING DRAINAGE SWALE RE-ESTABLISH AFTER TRENCHING

MBR

CIR. #3

MATCH MARK SEE DWG. NO. ILL-06

DISCONNECT AND REMOVE EXISTING CONDUCTORS IN CONDUIT

DISCONNECT AND ABANDON EXISTING CONDUCTORS IN MEDIAN CONDUIT

ENTER EXISTING HANDHOLE AND CONNECT TO EXISTING 3 #2, 1 #8 GND. FROM BRIDGE PARAPET

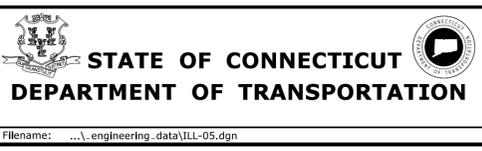
INSTALL NEW 35' LIGHT STANDARD ON EXISTING FOUNDATION AND CONNECT TO EXISTING 3 #2, 1 #8 GND.

NEW UNDERBRIDGE LIGHTS AND 3/4" RMC SURFACE WITH 3 #10 (TYPICAL)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

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 CHECKED BY: **JA**
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SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
 APPROVED BY: *[Signature]*

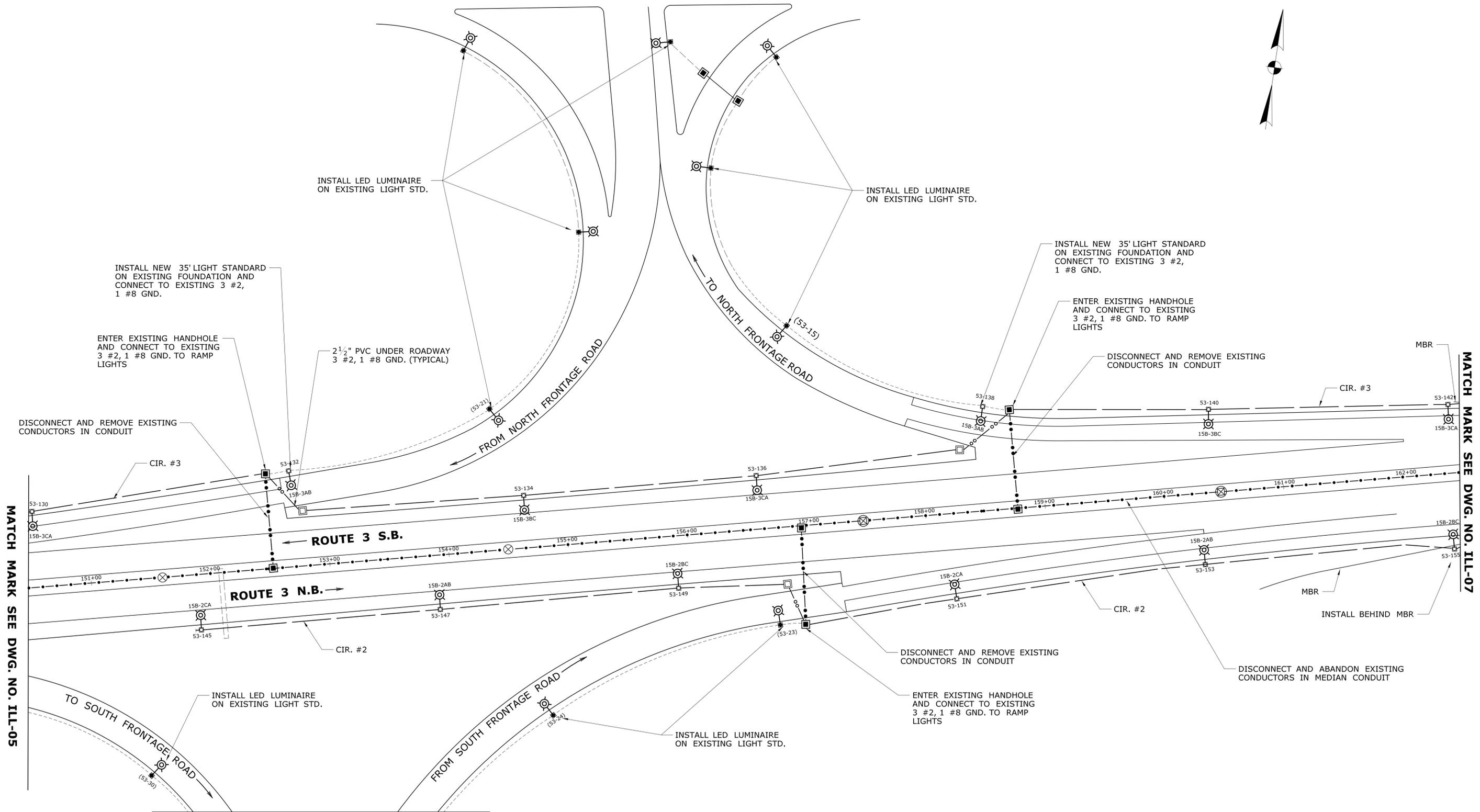
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TOWN: **WETHERSFIELD GLASTONBURY**
 DRAWING TITLE: **ILLUMINATION PLAN**

PROJECT NO. **159-192**
 DRAWING NO. **ILL-05**
 SHEET NO. **07.05**

Filename: ...engineering_data\ILL-05.dgn

PUTNAM BLVD.



MATCH MARK SEE DWG. NO. ILL-07

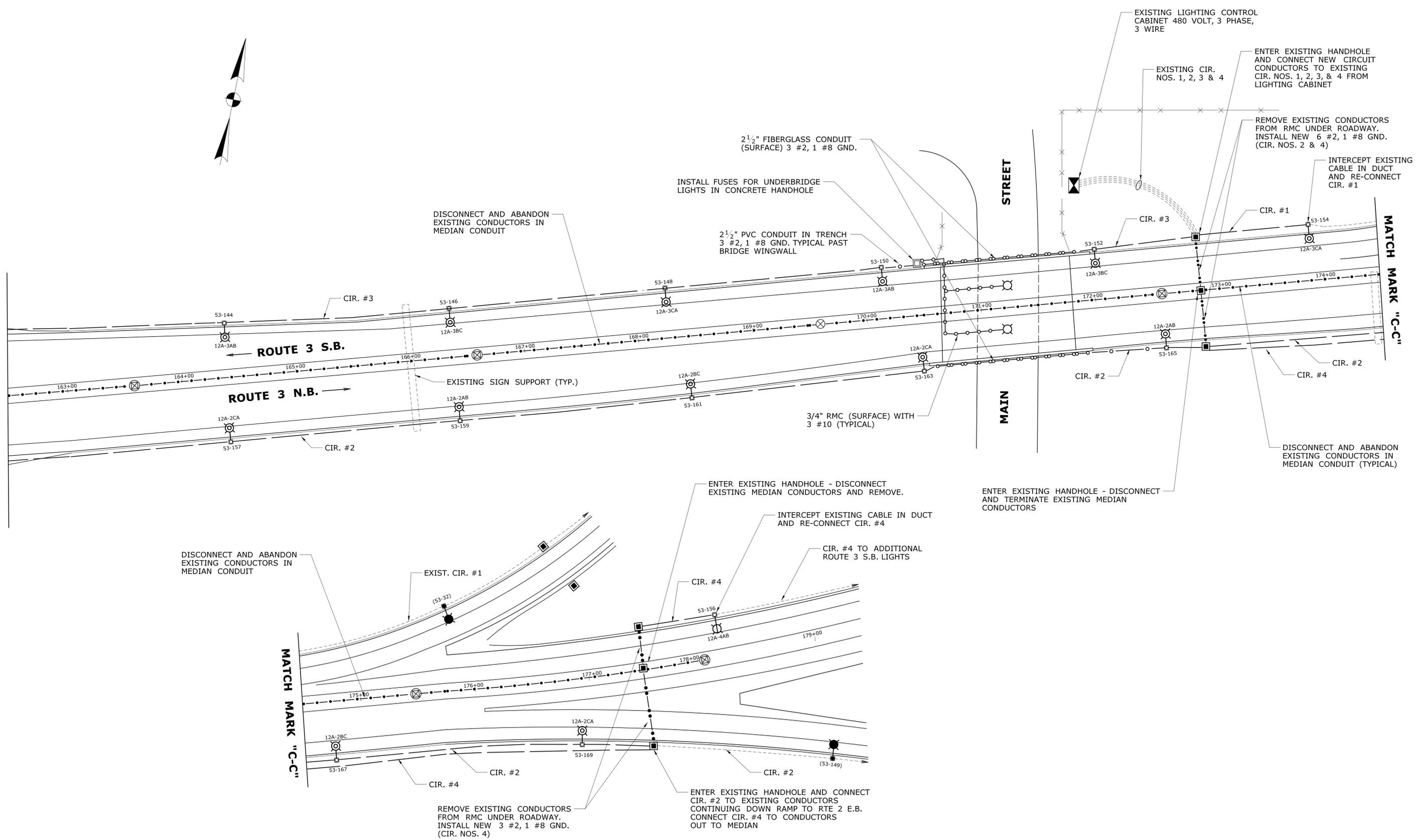
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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 11/9/2015	DESIGNER/DRAFTER: MSB CHECKED BY: JA	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION SCALE IN FEET 0 40 80 SCALE 1"=40' Filename: ...engineering_data\ILL-06.dgn	SIGNATURE/BLOCK: APPROVED BY:	PROJECT TITLE: PAVEMENT PRESERVATION ON ROUTE 3	TOWN: WETHERSFIELD GLASTONBURY	PROJECT NO.: 159-192 DRAWING NO.: ILL-06 SHEET NO.: 07.06
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MATCH MARK SEE DWG. NO. ILL-06

MATCH MARK "C-C"



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/9/2015

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

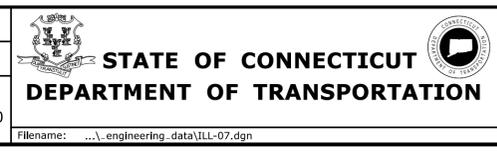
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CHECKED BY: **JA**

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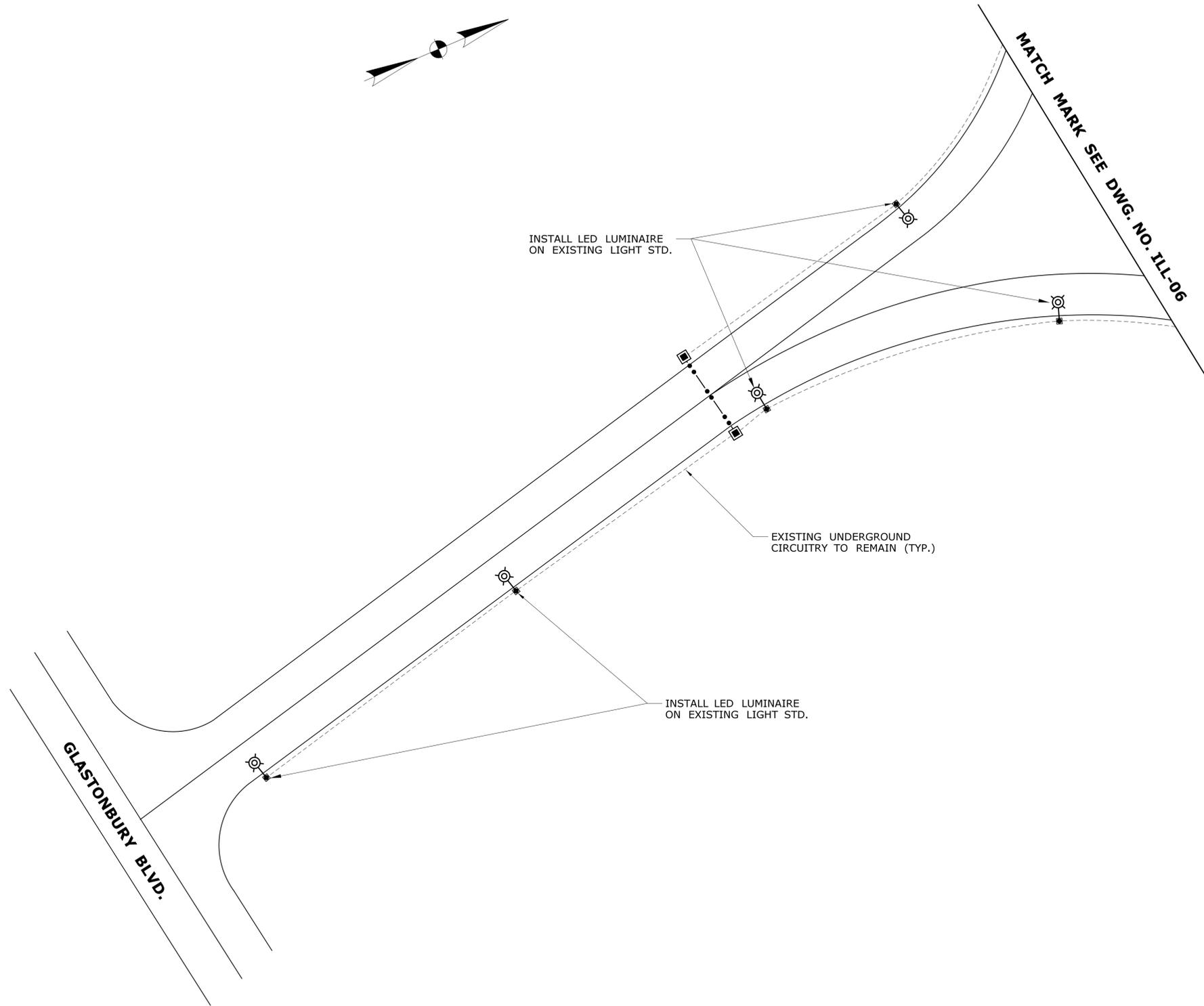
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PROJECT NO. **159-192**

DRAWING NO. **ILL-07**

SHEET NO. **07.07**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/9/2015

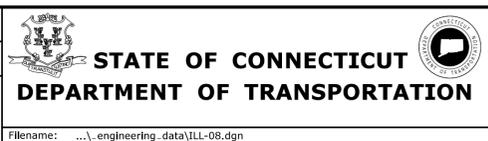
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SIGNATURE/
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OFFICE OF ENGINEERING

APPROVED BY:
Amy N. O'Connell

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ON ROUTE 3**

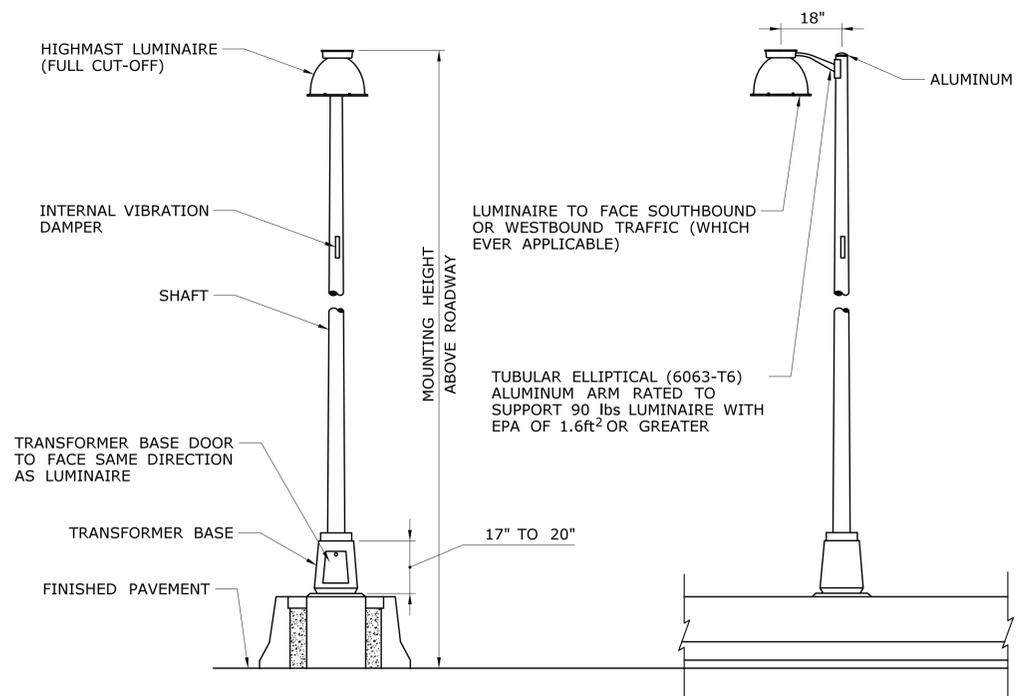
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**WETHERSFIELD
GLASTONBURY**

DRAWING TITLE:
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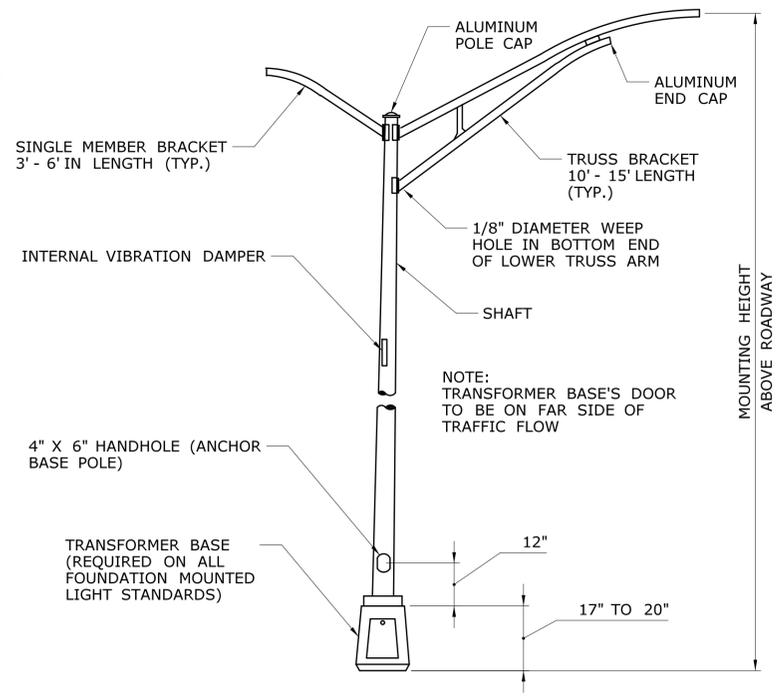
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159-192

DRAWING NO.
ILL-08

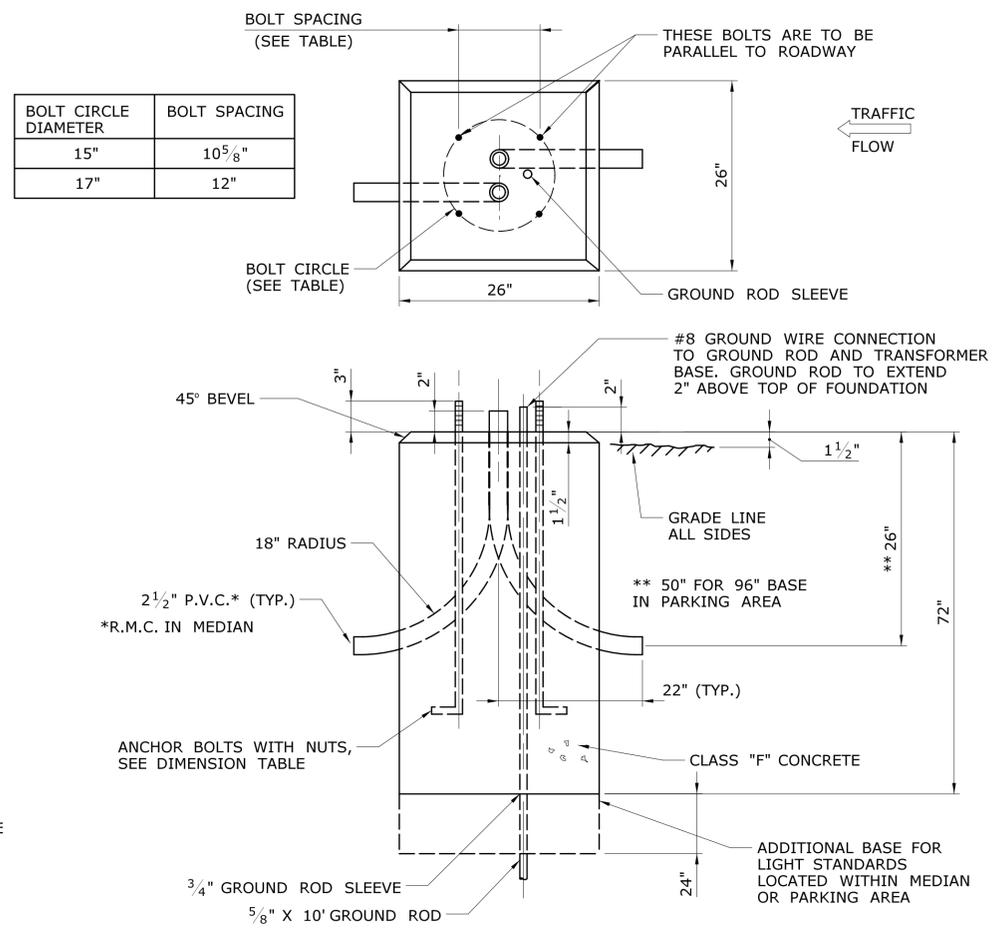
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07.08



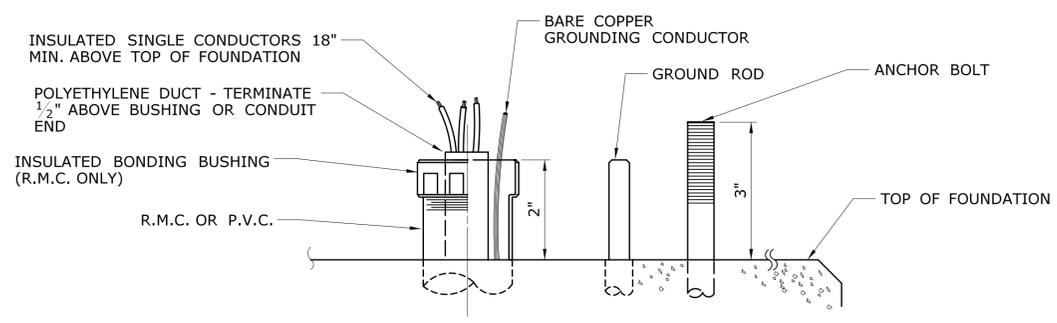
MEDIAN MOUNTED LIGHT STANDARD WITH HIGHMAST LUMINAIRE



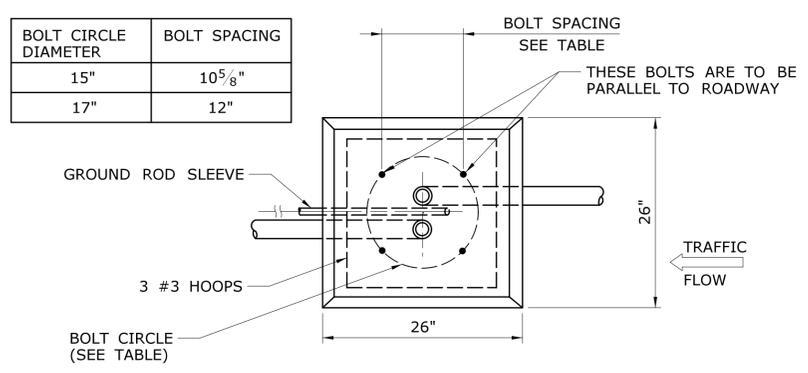
ALUMINUM LIGHT STANDARD



LIGHT STANDARD FOUNDATION (TYPE I)



CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE

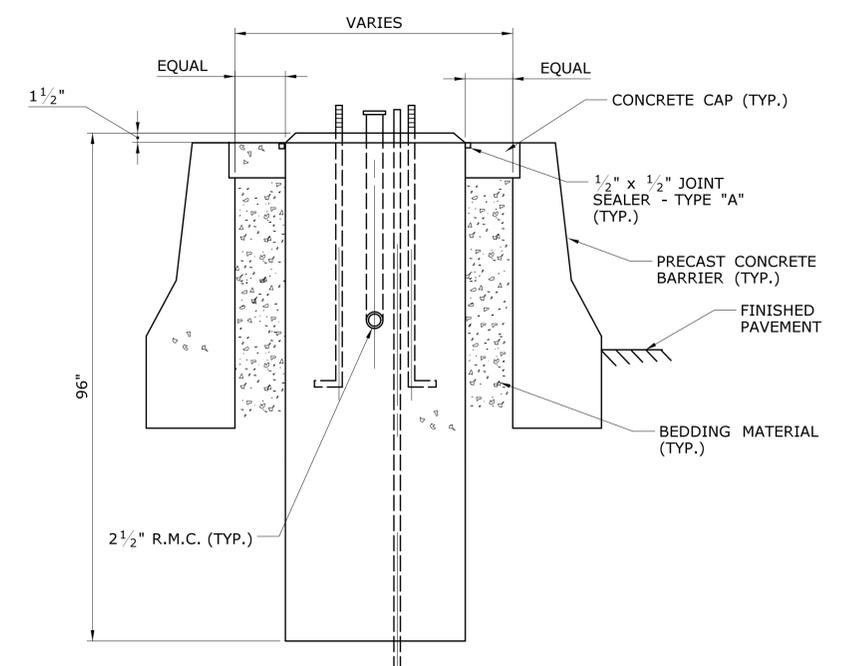


LIGHT STANDARD FOUNDATION (TYPE II)

ALUMINUM LIGHT STANDARD - DIMENSION TABLE							
MOUNTING HEIGHT	BRACKET LENGTH	SHAFT DIAMETER		SHAFT WALL THICKNESS	BASE TYPE	ANCHOR BOLT SIZE	BOLT CIRCLE DIAMETER
		BOTTOM	TOP				
35'	12'	8"	6"	.250"	TRANSFORMER	1" X 40"	15"
35'	15'	8"	6"	.250"	TRANSFORMER	1" X 40"	15"
40'	12'	10"	6"	.188"	TRANSFORMER	1" X 40"	15"

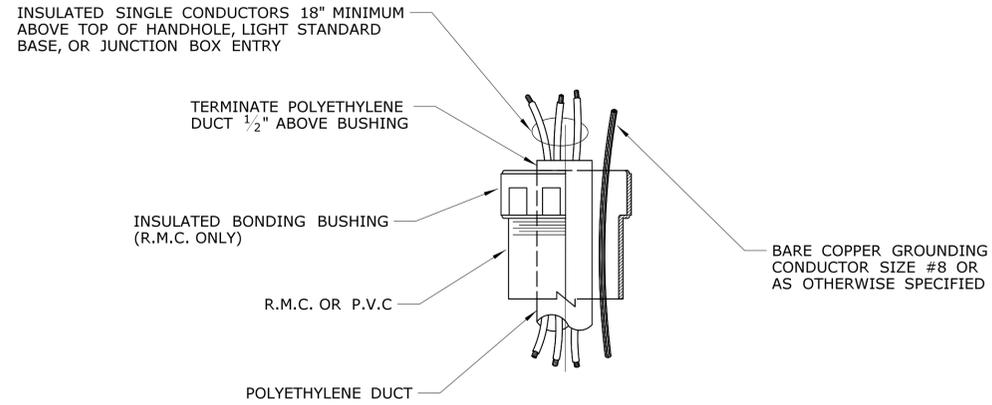
LIGHT STANDARD NOTES:

- ALUMINUM ALLOY SHALL BE 6063, T6 TEMPER.
- BOLT CIRCLE SHOWN IS FOR ANCHOR BASE BOTTOM OR TRANSFORMER BASE BOTTOM (WHICHEVER IS APPLICABLE).
- TO BE DESIGNED TO AASHTO "STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 90 M.P.H. WINDS.
- WELDING DESIGN AND FABRICATION SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/AWS D1.2, STRUCTURAL WELDING CODE - ALUMINUM.
- FOR BASE CONNECTION WELDS, FABRICATION INSPECTION AND TESTING SHALL BE PERFORMED AS NECESSARY PRIOR TO ASSEMBLY, DURING ASSEMBLY, DURING WELDING, AND AFTER WELDING, TO ENSURE THAT MATERIALS AND WORKMANSHIP MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FABRICATION INSPECTION AND TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFICATION INSPECTION AND TESTING IS THE PREROGATIVE OF THE ENGINEER (CONNDOT).
- NON-DESTRUCTIVE TESTING FOR ALUMINUM SHALL BE AS FOLLOWS: A RANDOM 25% OF ALL BASE CONNECTION WELDS SHALL BE INSPECTED IN ACCORDANCE WITH ASTM E-165 STANDARD PRACTICE FOR LIQUID PENETRANT INSPECTION METHOD.

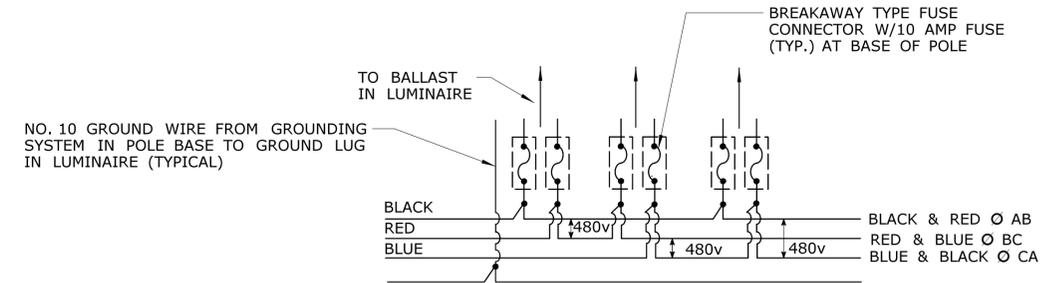


LIGHT STANDARD FOUNDATION (TYPE I) IN MEDIAN

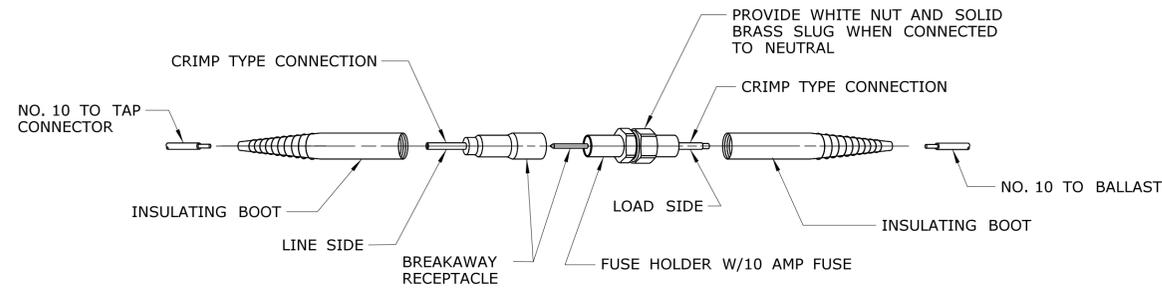
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CHECKED BY: JA		OFFICE OF ENGINEERING	DATE:	DRAWING TITLE: LIGHT STANDARDS AND FOUNDATIONS	DRAWING NO. ILL-09
NO SCALE	Plotted Date: 11/9/2015	Filename: ...engineering_data\ILL-09.dgn			SHEET NO. 07.09



CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

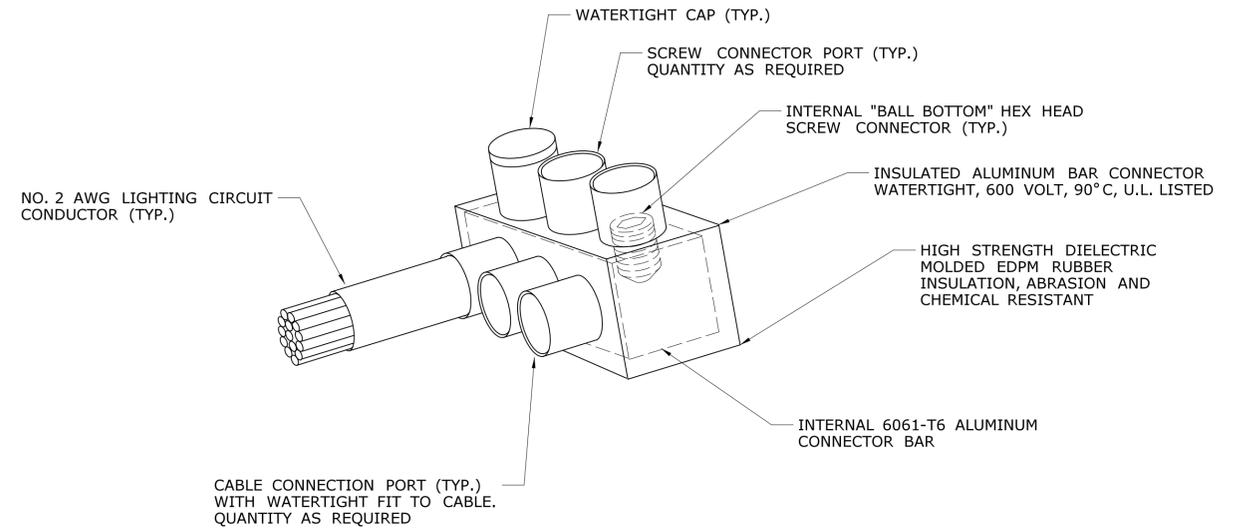


3 PHASE 3 WIRE SYSTEM



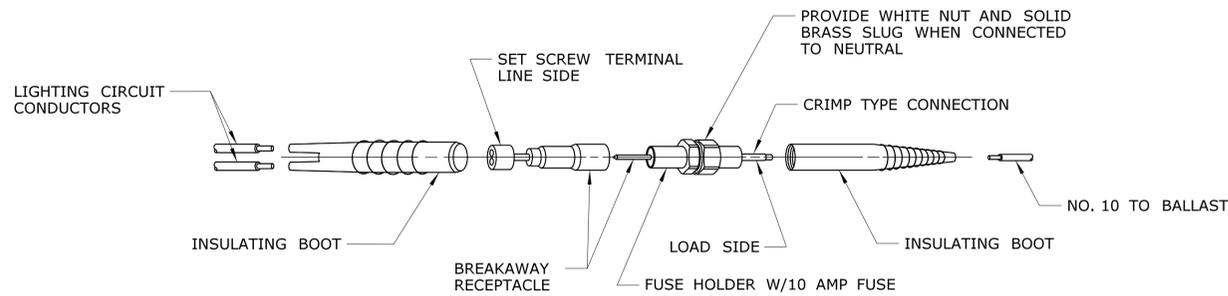
BREAKAWAY FUSE CONNECTOR

TO BE USED WITH TWIN LUMINAIRE LIGHT STANDARDS (4 REQUIRED PER LIGHT STANDARD) AND UNDERBRIDGE LUMINAIRES



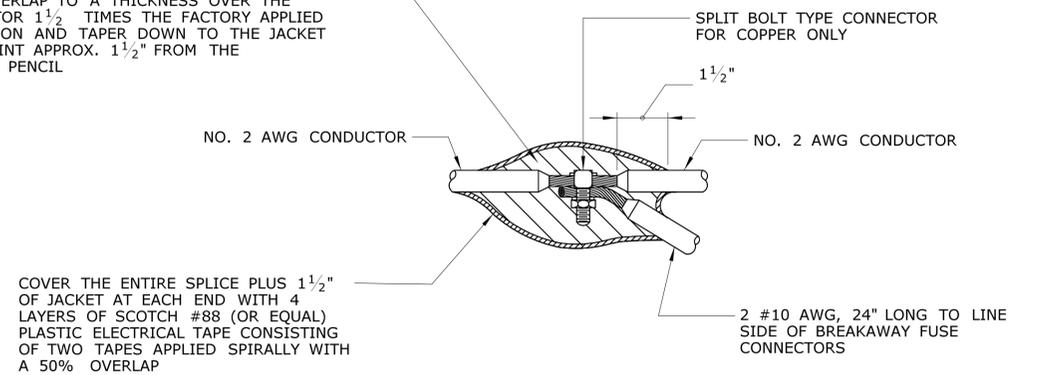
WATERTIGHT CONNECTOR

TO BE USED IN HANDHOLES AND JUNCTION BOXES



BREAKAWAY FUSE CONNECTOR

APPLY RUBBER SPLICING TAPE WITH APPROX. 50% OVERLAP TO A THICKNESS OVER THE CONNECTOR 1 1/2 TIMES THE FACTORY APPLIED INSULATION AND TAPER DOWN TO THE JACKET AT A POINT APPROX. 1 1/2" FROM THE EDGE OF PENCIL



TAP CONNECTOR

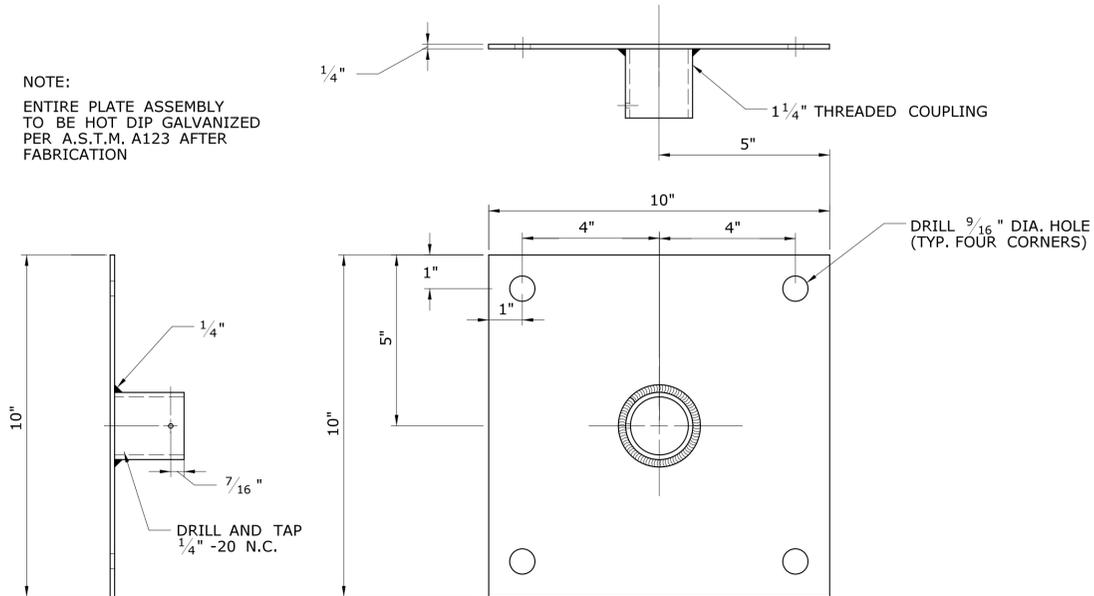
TO BE USED W/TWIN LUMINAIRE LIGHT STANDARDS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\engineering_data\\ILL-11.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>Anthony D. O'Neil</i>	PROJECT TITLE: PAVEMENT PRESERVATION ON ROUTE 3	TOWN: WETHERSFIELD GLASTONBURY DRAWING TITLE: ELECTRICAL CONNECTIONS	PROJECT NO.: 159-192 DRAWING NO.: ILL-11 SHEET NO.: 07.11	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/9/2015				

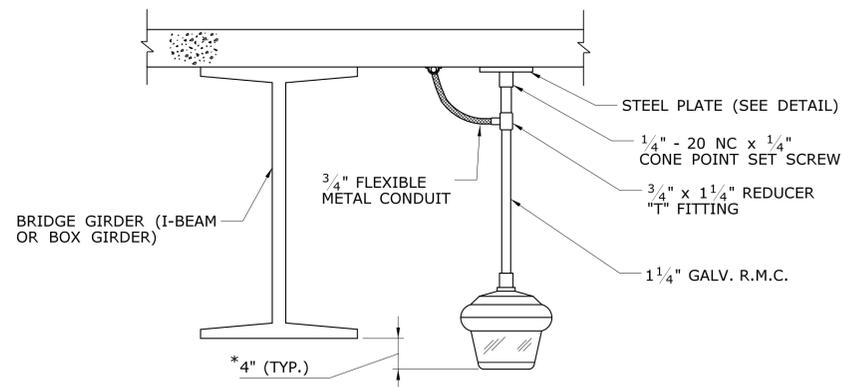
NOTE:

STEEL PLATE TO BE ATTACHED TO BRIDGE DECK USING CONNECTICUT D.O.T. APPROVED MECHANICAL ANCHOR (2). THREADED ROD SHALL BE 1/2" IN DIAMETER, HOT DIP GALVANIZED PER A.S.T.M. - A123. MECHANICAL ANCHOR SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

NOTE:
ENTIRE PLATE ASSEMBLY TO BE HOT DIP GALVANIZED PER A.S.T.M. A123 AFTER FABRICATION



STEEL PLATE FOR PENDANT LUMINAIRE

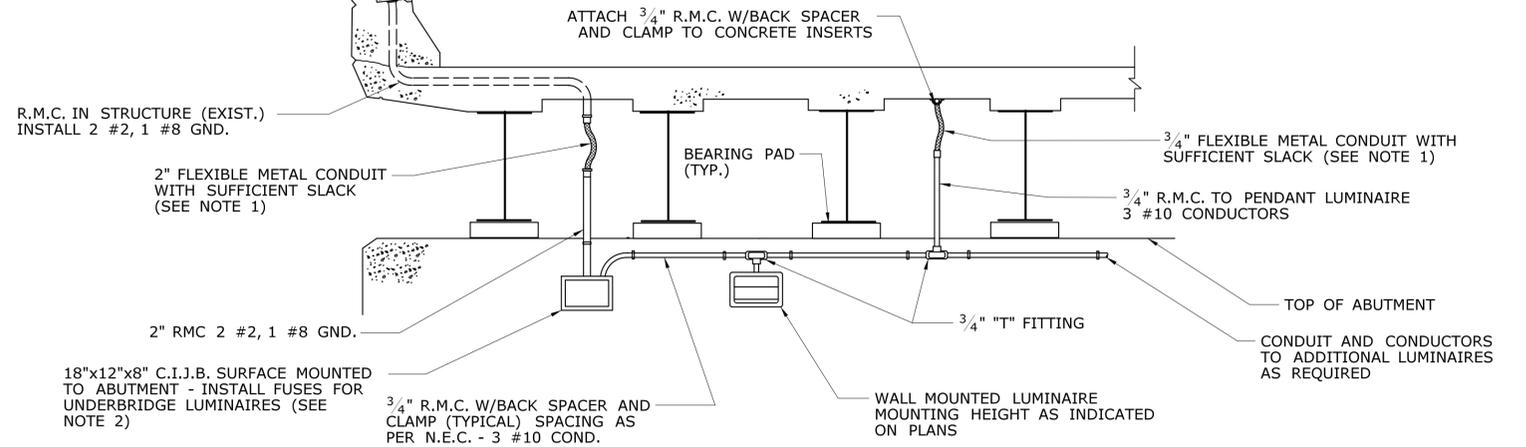


* FOR LOW CLEARANCE STRUCTURES, HEIGHT OF LUMINAIRE BOTTOM ABOVE ROADWAY SHALL NOT BE LESS THAN 14' - 3"

UNDERBRIDGE LUMINAIRE - PENDENT MOUNTING

NOTE:
LONGITUDINAL LIGHT DISTRIBUTION OF LUMINAIRE TO BE PARALLEL WITH CENTERLINE OF ROADWAY

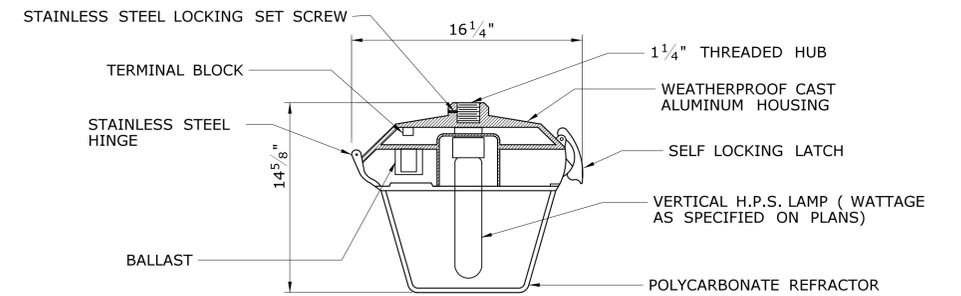
18"x12"x8" C.I.J.B. (EXIST.) BRANCH CIRCUIT CONNECTIONS TO BE MADE IN C.I.J.B.



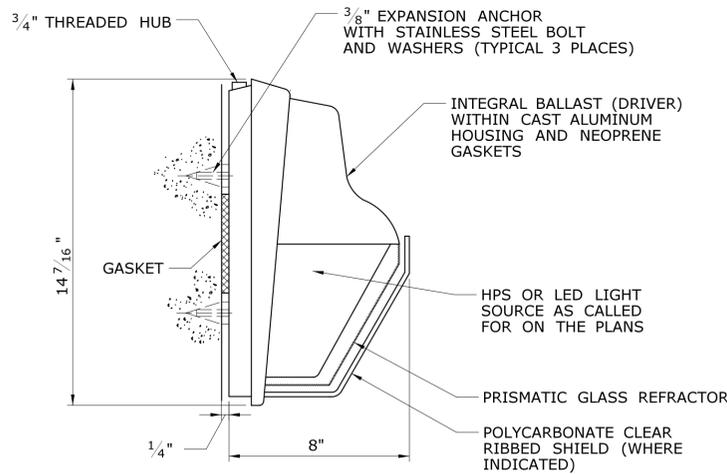
TYPICAL LAYOUT AND FEED FOR UNDERBRIDGE LUMINAIRE, WALL OR PENDANT MOUNTED

NOTES:

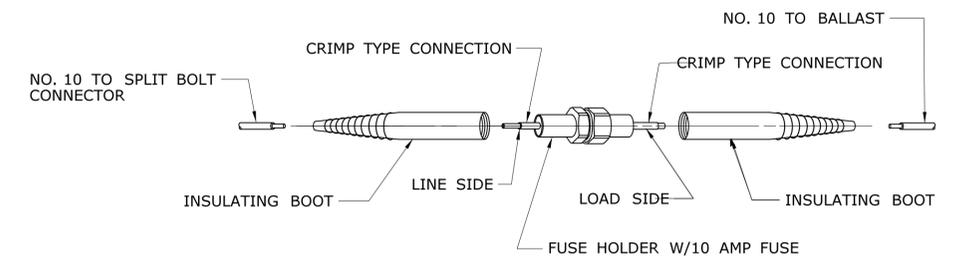
1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE MAXIMUM AMOUNT OF MOVEMENT BETWEEN THE BRIDGE SUPERSTRUCTURE AND THE ABUTMENT/PIER. AN APPROPRIATE LENGTH OF FLEXIBLE CONDUIT SHALL BE INSTALLED TO ACCOMMODATE THIS MOVEMENT.
2. SURFACE MOUNTED C.I.J.B. SHALL BE PAID FOR UNDER A SEPARATE ITEM AND NOT AS PART OF THE UNDERBRIDGE LIGHT ITEM. 2" RMC (SURFACE), 2" FLEXIBLE CONDUIT, NO. 2 CONDUCTORS, AND NO. 8 GROUNDING CONDUCTOR TO BE INCLUDED AS PART OF UNDERBRIDGE LIGHT ITEM.



UNDERBRIDGE LUMINAIRE (PENDANT MOUNTED)



UNDERBRIDGE LUMINAIRE (WALL MOUNTED)



INSULATED FUSE CONNECTOR

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/9/2015	DESIGNER/DRAFTER: MSB	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: PAVEMENT PRESERVATION ON ROUTE 3	TOWN: WETHERSFIELD GLASTONBURY	PROJECT NO. 159-192
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					NO SCALE					SHEET NO. 07.12