01.11 - ILLUMINATION
INDEX OF SUBSETS

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Christopher J. Bonsignore, P.E.
2018.07.10 14:36:39-04'00'

TRANSPORTATION PRINCIPAL ENGINEER

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: 7/10/2018

DESIGNER/DRAFTER: DR

CHECKED BY: MSB

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..._CT_FDP_0063-0703.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

CITY/TOWN: HARTFORD EAST HARTFORD

DRAWING TITLE: ILLUMINATION SUBSET INDEX

PROJECT NO. 63-703

DRAWING NO. INX-01

SHEET NO. 01.11.01.01

01.11.02 - ELECTRICAL- ILLUMINATION
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
ILL-01	INDEX OF DRAWINGS		
ILL-02	LEGEND AND GENERAL NOTES		
ILL-03 TO ILL-05	INDEX PLANS		
ILL-06 TO ILL-24	ILLUMINATION PLANS		
ILL-25	CONCRETE HANDHOLES		
ILL-26	ELECTRICAL CONNECTIONS		
ILL-27	LIGHT STANDARD AND FOUNDATION		
ILL-28	UNDERBRIDGE LUMINAIRES		
ILL-29	BRIDGE INSPECTION RECEPTACLES		
ILL-30	MEDIAN ELECTRICAL DETAILS		

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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STATE OF CONNECTICUT
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PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ELECTRICAL-ILLUMINATION
INDEX OF DRAWINGS

PROJECT NO. 63-703

DRAWING NO. ILL-01

SHEET NO. 01.11.02.01

ILLUMINATION LEGEND

- ALUMINUM LIGHT STANDARD (TRANSFORMER BASE) AND FOUNDATION (SEE NOTE 22)
- EXISTING LIGHT STANDARD TO REMAIN - REMOVE HPS LUMINAIRE AND INSTALL LED LUMINAIRE AS INDICATED
- EXISTING LIGHT STANDARD, FOUNDATION, AND LUMINAIRE TO BE REMOVED
- EXISTING STRUCTURE MOUNTED LIGHT STANDARD TO BE REMOVED
- ALUMINUM LIGHT STANDARD (STRUCTURE MOUNTED)
- EXISTING LIGHT STANDARD ON STRUCTURE TO REMAIN - REMOVE HPS LUMINAIRE AND INSTALL LED LUMINAIRE AS INDICATED
- LED LUMINAIRE (3,750 - 4,750 LUMEN, TYPE II DIST., FULL-CUTOFF)
- LED ROADWAY LUMINAIRE - TYPE 1 (12,000* LUMEN, TYPE II DIST., FULL-CUTOFF, 30' MOUNTING HEIGHT)
- LED ROADWAY LUMINAIRE - TYPE 1 (12,000* LUMEN, TYPE III DIST., FULL-CUTOFF, 40' MOUNTING HEIGHT)
- LED ROADWAY LUMINAIRE - TYPE 2 (16,000* LUMEN, TYPE II DIST., FULL-CUTOFF, 40' MOUNTING HEIGHT)
- LED ROADWAY LUMINAIRE - TYPE 3 (20,000* LUMEN, TYPE II DIST., FULL-CUTOFF, 40' MOUNTING HEIGHT)
- ROADWAY LUMINAIRE (200 WATT HPS, 22,000 LUMEN, TYPE 11 DIST.,FULL-CUTOFF, 30' MOUNTING HEIGHT)
- EXISTING LIGHT STANDARD AND POLE TO BE RELOCATED TO NEW FOUNDATION
- EXISTING FOUNDATION MOUNTED ALUMINUM LIGHT STANDARD TO REMAIN
- UNDERBRIDGE LUMINAIRE - LED (WALL MOUNTED)
- UNDERBRIDGE LUMINAIRE - LED (PENDENT MOUNTED)
- REMOVE UNDERBRIDGE LUMINAIRE
- CONCRETE HANDHOLE (TYPE I)
- EXISTING CONCRETE HANDHOLE TO REMAIN
- EXISTING CONCRETE HANDHOLE TO BE REMOVED
- 18" X 12" X 8" CAST IRON JUNCTION BOX
- EXISTING CAST IRON JUNCTION BOX TO REMAIN (U.O.N)
- 16" X 14" X 6" NON-METALLIC JUNCTION BOX
- EXISTING LIGHTING CONTROL CABINET TO REMAIN
- FIBERGLASS RISER CONDUIT
- CABLE IN DUCT (3 #2 CONDUCTORS, 1 #8 BARE GND.)
- 2" RIGID METAL CONDUIT IN STRUCTURE (3 #2, 1 #8 BARE GND., (U.O.N.))
- 2½" FIBERGLASS CONDUIT UNDER ROADWAY (3#2 & 1#8 BARE GND., (U.O.N.))
- 2½" FIBERGLASS CONDUIT IN MEDIAN (3 #2, 1 #8 BARE GND., (U.O.N.))
- 2½" FIBERGLASS CONDUIT IN TRENCH (3 #2, 1 #8 BARE GND., (U.O.N.))
- FIBERGLASS CONDUIT - SURFACE, (CONDUIT SIZE AND QUANTITY OF CONDUCTORS AS INDICATED ON PLANS)
- 3" POLYVINYL CHLORIDE CONDUIT (PVC) IN TRENCH
- EXISTING RIGID METAL CONDUIT - SURFACE MOUNTED
- EXISTING RIGID METAL CONDUIT AND CONDUCTORS IN STRUCTURE TO REMAIN (U.O.N.)
- EXISTING UNDERGROUND CIRCUITRY TO REMAIN

ABBREVIATIONS

RMC	RIGID METAL CONDUIT
FGC	FIBERGLASS CONDUIT
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
CIJB	CAST IRON JUNCTION BOX
U.O.N.	UNLESS OTHERWISE NOTED
CCHH	CONCRETE HANDHOLE
E.O.R.	EDGE OF ROADWAY

* APPROXIMATE LUMEN VALUE

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 SUMITTED 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 10.00.14 FOR SPECIFIC REQUIREMENTS.

2) ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CONNECTICUT STANDARD SPECIFICATIONS, AND WHERE APPLICABLE, UTILIITY COMPANY REGULATIONS.

3) ALL "COBRA HEAD" TYPE ROADWAY LUMINAIRES SHALL BE RATED I.E.S. FULL-CUTOFF (BUG UPLIGHT RATED U0).

4) CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW AND RATED FOR 600 VOLTS. INSULATION SHALL BE COLORED CROSS LINKED POLYETHELENE (XLP). THREE PHASE CIRCUIT COLORS SHALL BE AS FOLLOWS: BLUE, BLACK, RED. SINGLE PHASE COLORS SHALL BE BLACK, RED AND WHITE.

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 THE FOLLOWING STATE PROJECTS: 63-458, 63-433, 63-434, 159-173, 42-246, AND 42-311.

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 CONNDOT DISTRICT 1 ELECTRICAL MAINTENANCE (860-566-3156) TO 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 (DISTANCE TO CENTERLINE OF POLE) OR AS INDICATED ON THE PLANS.

A - TYPE I FOUNDATION INSTALLED 7' FROM EDGE OF PAVEMENT, TO CENTERLINE OF FOUNDATION
B - TYPE I FOUNDATION INSTALLED 2' BEHIND GUIDE RAIL, OR 4' FROM EDGE OF PAVEMENT WHERE NO GUIDERAIL IS PRESENT, TO CENTERLINE OF FOUNDATION
C - ANCHOR BASE MOUNTED ON BRIDGE WALL
D - TYPE III FOUNDATION CENTERED BETWEEN MEDIAN BARRIERS
E - TYPE I FOUNDATION INSTALLED WITH SPECIAL OFFSET AS INDICATED ON PLANS

14) ALL CONDUCTOR SPLICES IN CONCRETE HANDHOLES SHALL BE MADE WITH INSULATED SUBMERSIBLE CONNECTORS.

15) QUANTITY OF "EXISTING HANDHOLES TO BE REMOVED" AS INDICATED ON PLANS IS APPROXIMATE. ADDITIONAL "NON-DOCUMENTED" HANDHOLES MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL REMOVE ALL EXISTING HIGHWAY LIGHTING HANDHOLES WHICH ARE NOT TO BE RE-USED AS INDICATED ON THE PLANS.

16) EXISTING LIGHT STANDARD FOUNDATIONS WHICH ARE TO BE REMOVED IN AREAS WHERE ACTIVE 4" I.M.S. INNERDUCT IS PRESENT, MAY BE DEMOLISHED TO A POINT 4" BELOW FINISHED GRADE AND LEFT IN PLACE SO AS NOT TO DISTURB THE BURIED I.M.S. CONDUIT. THE CONTRACTOR SHALL IDENTIFY THESE FOUNDATIONS TO THE ENGINEER AND APPLY FOR APPROVAL TO PERFORM THIS DEMOLITION IN LIEU OF REMOVAL.

17) WHEN TRENCHING AND INSTALLING CONDUIT ACROSS ESTABLISHED 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).

18) ALL PVC CONDUIT SHALL BE SCHEDULE 80. 2½ FIBERGLASS CONDUIT IN MEDIAN SHALL BE STANDARD WALL (0.070" WALL THICKNESS). 2½ FIBERGLASS CONDUIT IN TRENCH, UNDER ROADWAY AND SURFACE MOUNTED SHALL BE EXTRA-HEAVY WALL (0.250" WALL THICKNESS). ALL 3/4" FIBERGLASS CONDUIT SHALL BE STANDARD WALL (0.070" WALL THICKNESS).

19) THE CONTRACTOR SHALL CONTACT XU LIN AT EVERSOURCE (TEL: 860-280-2256 EMAIL: XU.LIN@EVERSOURCE.COM) TO COORDINATE THE RELOCATION OF THE MAIN STREET SERVICE CABINENT FEED.

20) THE CONTRACT ESTIMATE CALLS FOR THE FOLLOWING NUMBER OF SPARE LUMINAIRES OF EACH LUMINAIRE TYPE:

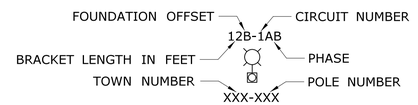
A) LED LUMINAIRE - 2
B) LED LUMINAIRE TYPE 1 - 10
C) LED LUMINIARE TYPE 2 - 10
D) LED LUMINIARE TYPE 3 - 10

SPARE LED LUMINAIRES SHALL BE DELIVERED TO CONNDOT DISTRICT 1 ELECTRICAL MAINTENANCE LOCATED ON JENNINGS ROAD IN HARTFORD. THE CONTRACTOR SHALL CONTACT MR. AUGUSTO GRAZUNA (860-566-3156) TO ARRANGE A DELIVERY DATE AND TIME. THE CONTRACTOR SHALL PROVIDE ALL LABOR REQUIRED TO TRANSPORT AND DELIVER THE LUMINAIRES. UPON TRANSFER, THE ENGINEER SHALL PROVIDE THE CONTRACTOR WITH A SIGNED RECIEPT FOR THE MATERIALS. THE COST FOR DELIVERY AND TRANSPORT SHALL BE INCLUDED IN THE "EACH" ITEM COST FOR THE LUMINAIRES IN LIEU OF INSTALLATION.

21) EXISTING LIGHTING CONTROL CABINET LOCATION/TYPES ARE AS FOLLOWS:

I-91 - AIRPORT ROAD, HARTFORD - 480V, 3 PHASE, 3 WIRE.
RTE. 15 - MAIN STREET, EAST HARTFORD - 480V, 3 PHASE, 3 WIRE.
RTE. 15 & I-84 - CLEMENT ROAD, EAST HARTFORD - 480V, 3 PHASE, 3 WIRE.
RTE. 15 - FOLLY BROOK BOULEVARD, WETHERSFIELD - 480V, 3 PHASE, 3 WIRE.

22) LIGHT STANDARD FOUNDATIONS INSTALLED BETWEEN MEDIAN BARRIERS SHALL BE TYPE III. ALL OTHERS TO BE TYPE I.



TYPICAL ILLUMINATION UNIT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/14/2018

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

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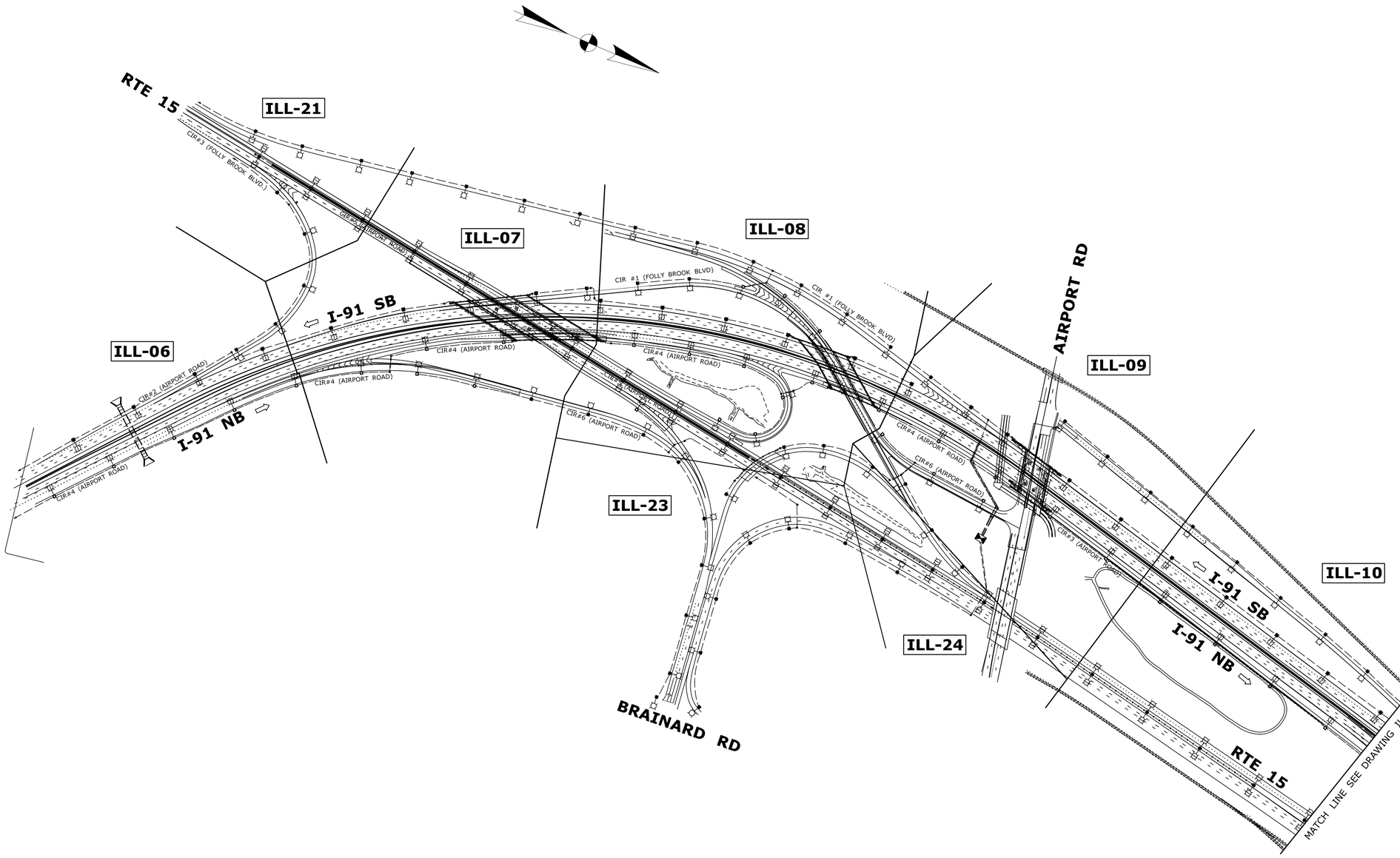
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB

TOWN:
HARTFORD & EAST HARTFORD

DRAWING TITLE:
LEGEND AND GENERAL NOTES

PROJECT NO. 063-703
DRAWING NO. ILL-02
SHEET NO. 01.11.02.02



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Plotted Date: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

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SCALE 1"=200'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB

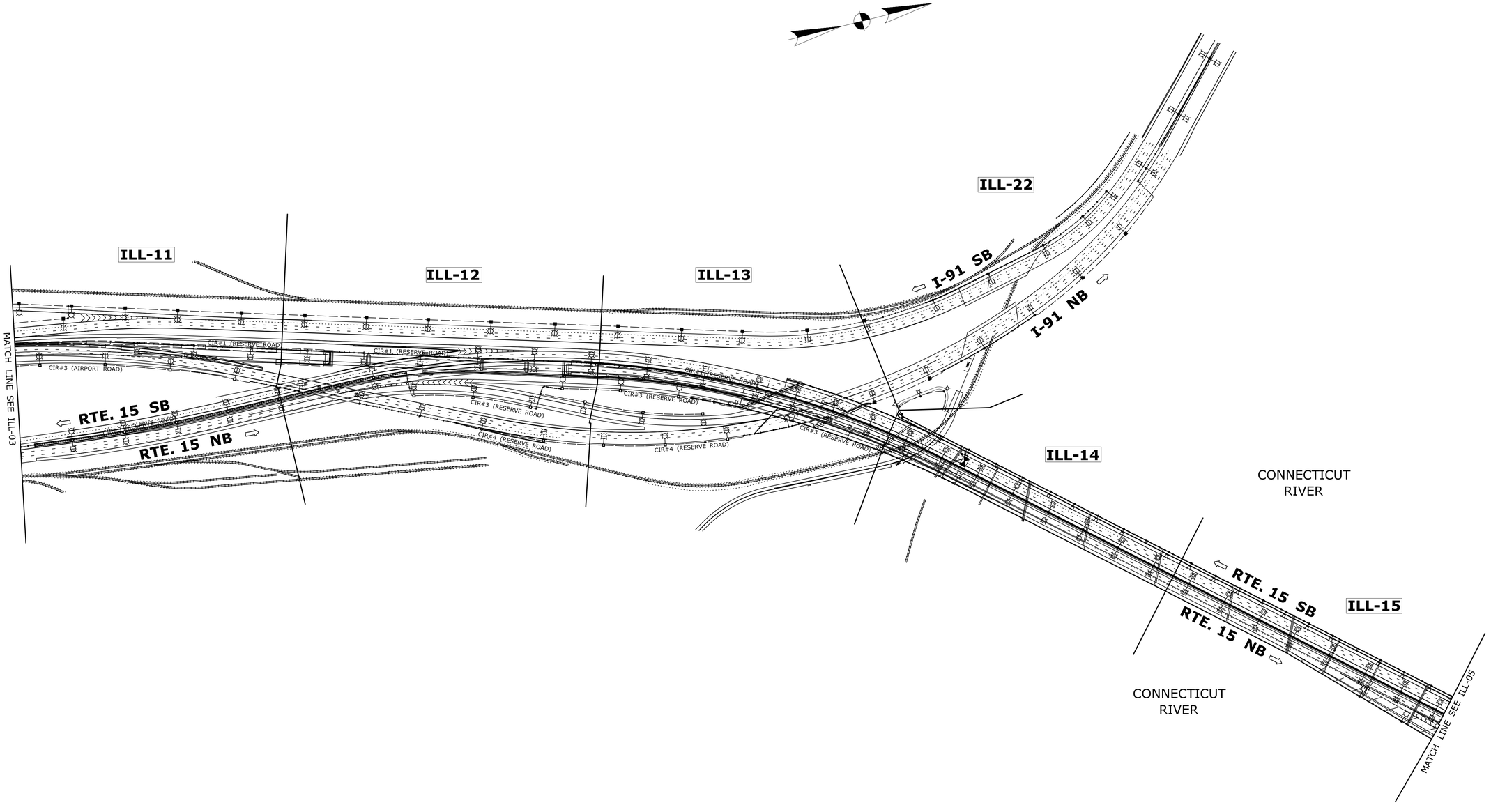
TOWN:
HARTFORD & EAST HARTFORD

DRAWING TITLE:
INDEX PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-03

SHEET NO.
01.11.02.03



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INTERCHANGE 29 AND WIDENING
OF I-91 NB AND ROUTE 15 NB

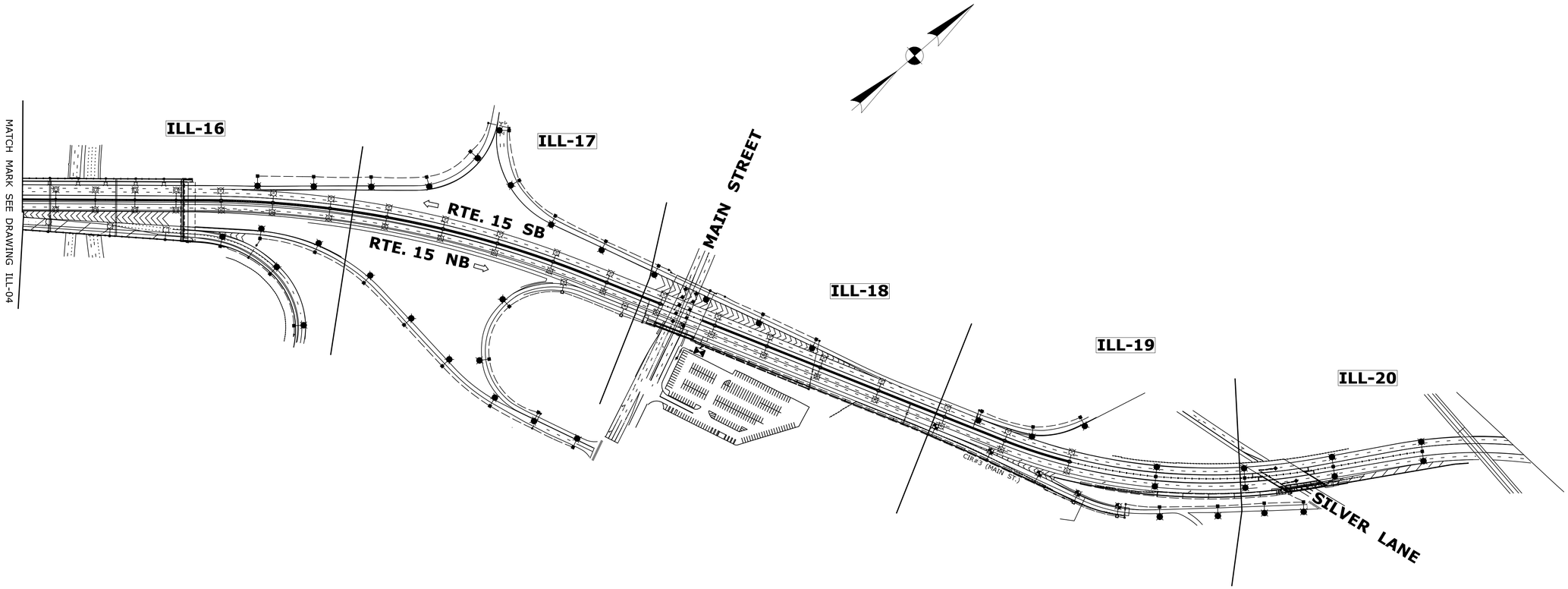
TOWN:
HARTFORD &
EAST HARTFORD

DRAWING TITLE:
INDEX PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-04

SHEET NO.
01.11.02.04



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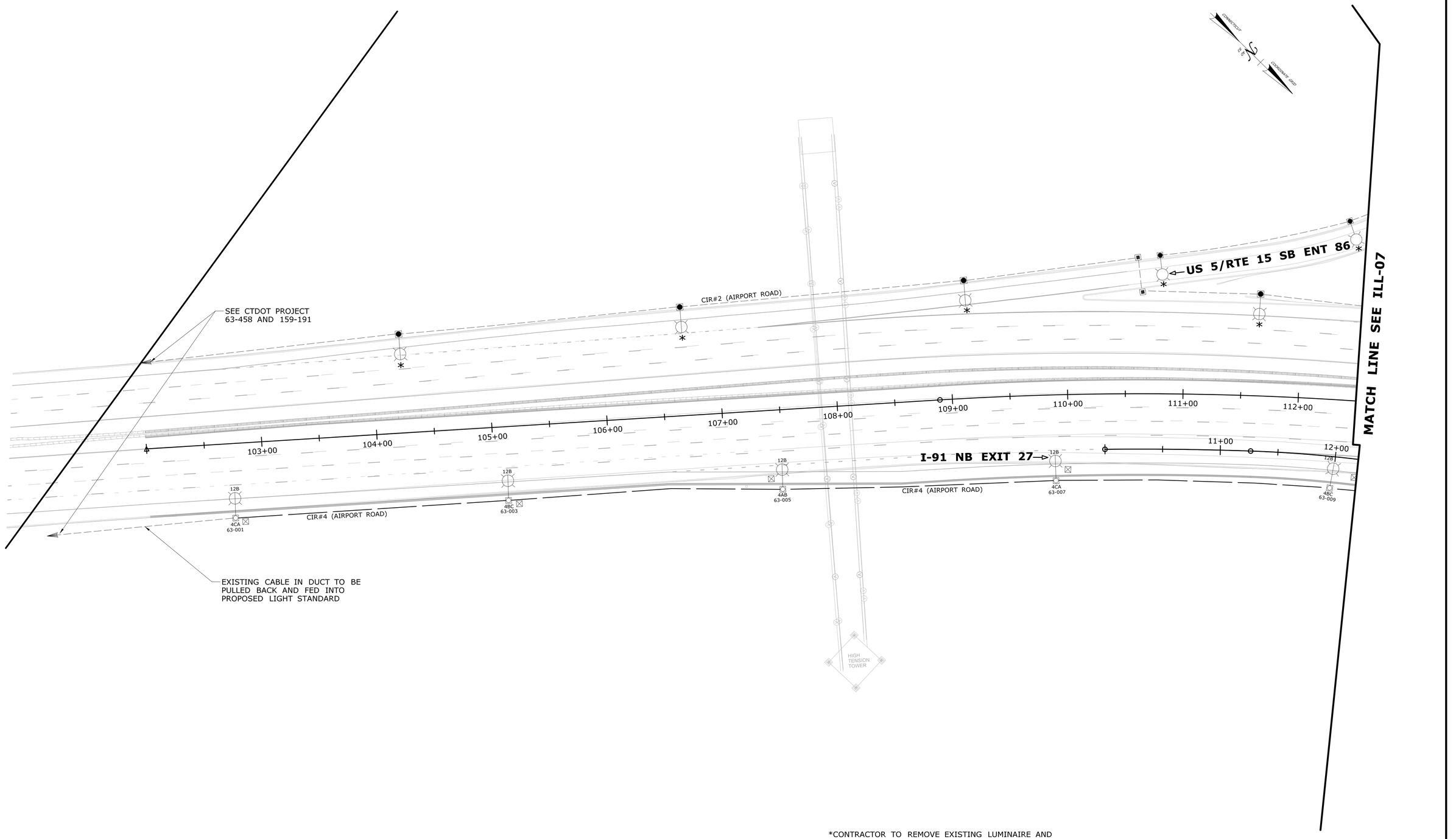
TOWN:
HARTFORD & EAST HARTFORD

DRAWING TITLE:
INDEX PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-05

SHEET NO.
01.11.02.05



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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SCALE 1"=40'

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RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-06

SHEET NO.
01.11.02.06

MATCH LINE SEE ILL-21

MATCH LINE SEE ILL-21

MATCH LINE SEE ILL-08

MATCH LINE SEE ILL-06

US 5/RTE 15 NB EXIT 86

CIR#3 (FOLLY BROOK BLVD)

US 5/RTE 15 NB

US 5/RTE 15 SB

CIR#5 (AIRPORT ROAD)

ENT RAMP TO I-91 SB FROM US 5/RTE 15 SB (EXIT 87)

I-91 SB

I-91 NB

CIR#2 (AIRPORT ROAD)

CIR#4 (AIRPORT ROAD)

CIR#6 (AIRPORT ROAD)

I-91 NB EXIT 27

602+00 603+00 604+00 605+00 606+00 607+00 608+00 609+00 610+00

702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00

113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00

13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00

$2\frac{1}{2}$" FIBERGLASS CONDUIT TO BE INSTALLED IN NOTCHED OUT VERTICAL BARRIER WALL TO PASS AROUND BRIDGE PIERS (SEE DETAIL IN SUBSET 01.06.04)

$\frac{3}{4}$" FGC (SURFACE) 3#10 TYP. FOR UNDERBRIDGE LIGHTS

SURFACE MOUNTED NON-METALIC JUNCTION BOX FED FROM CIJB INSTALLED IN BRIDGE PARAPET. INSTALL FUSES IN JUNCTION BOX (SEE DETAIL SHEET)

END CIR #6 AIRPORT ROAD CABINET

CAP AND TAPE ALL UNUSED CONDUCTORS

ENTER EXISTING LIGHT STANDARD BASE AND CONNECT TO EXISTING CIR #6

*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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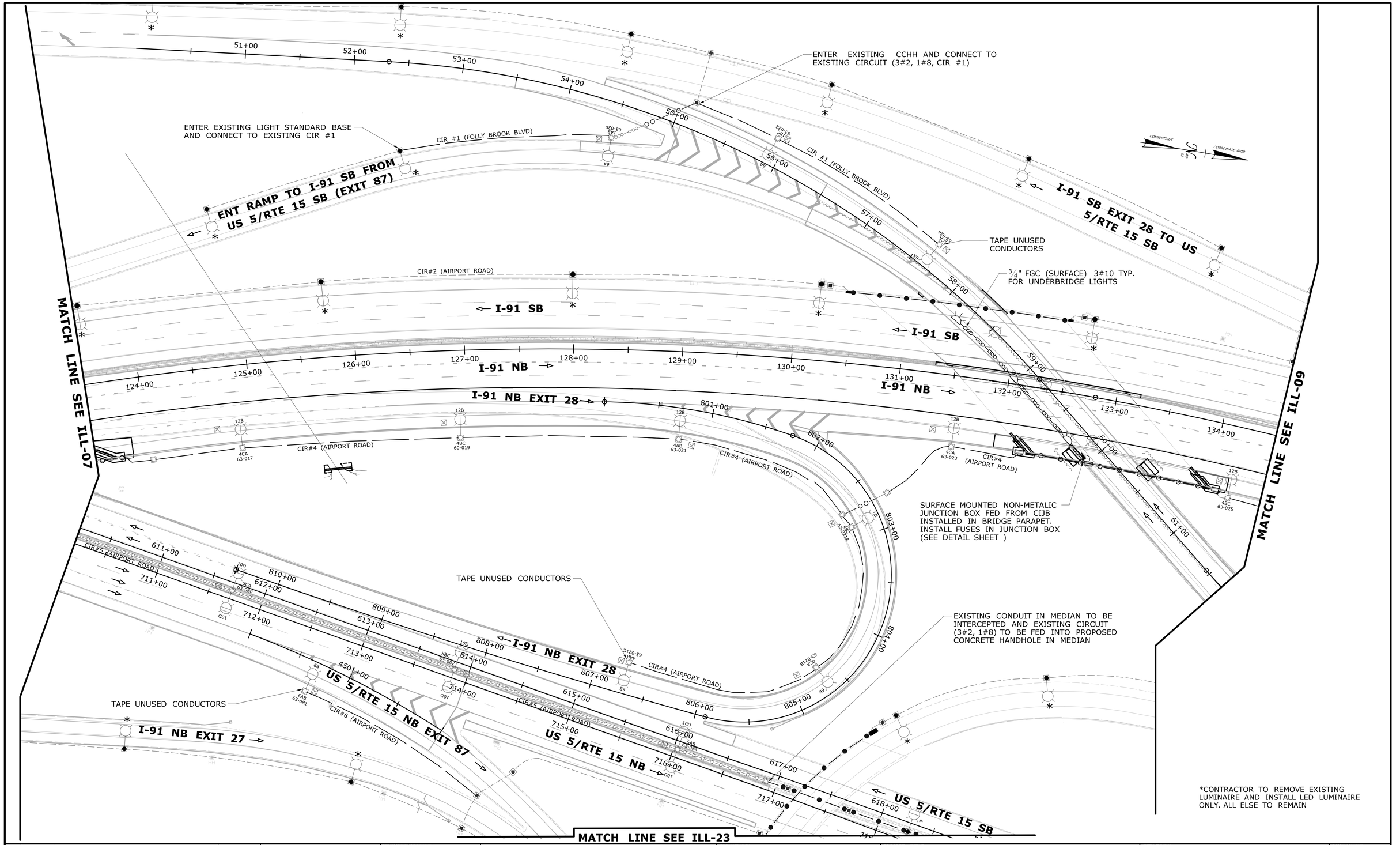
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**

DRAWING NO. **ILL-07**

SHEET NO. **01.11.02.07**



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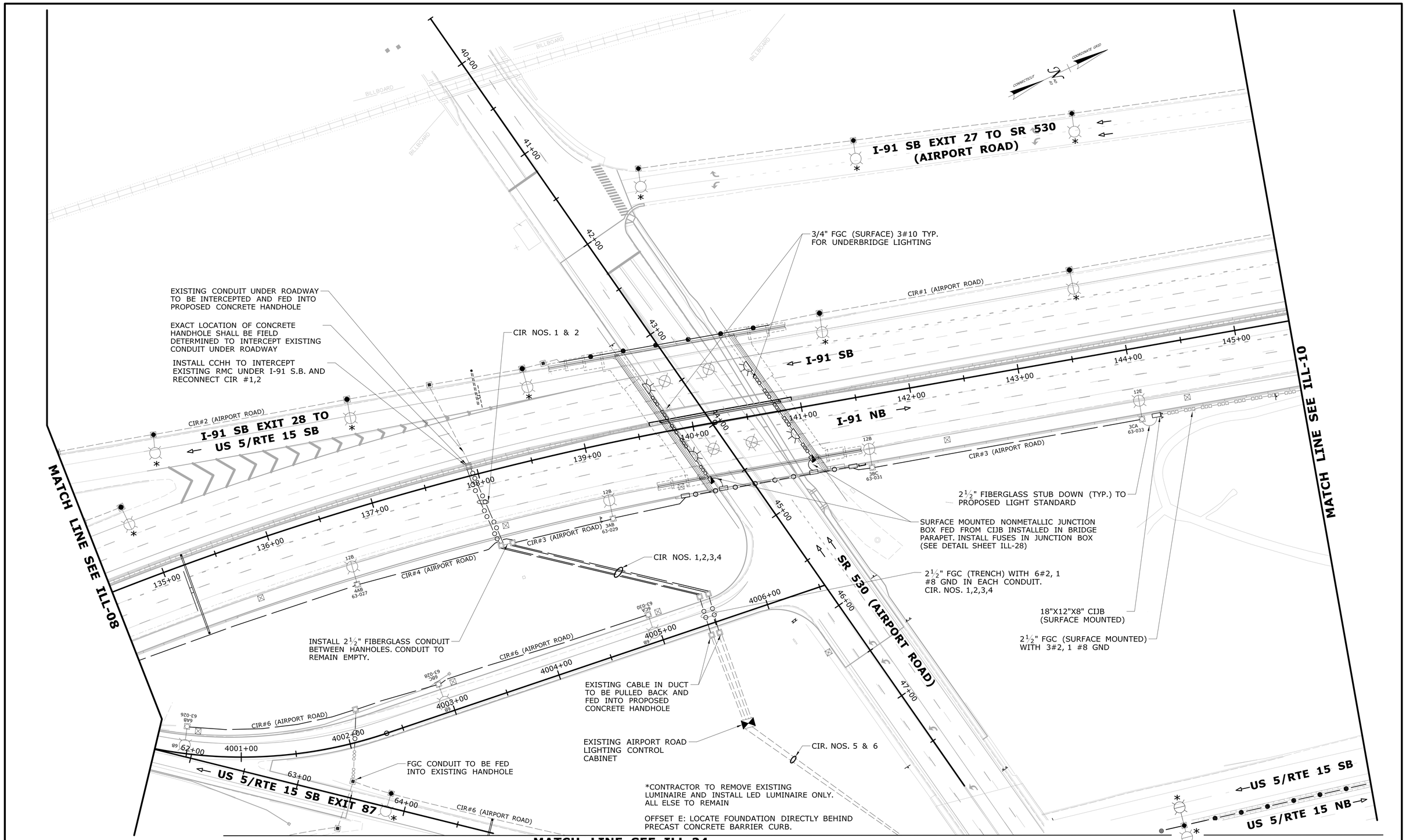
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-08
SHEET NO. 01.11.02.08



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TOWN(S): HARTFORD
EAST HARTFORD

DRAWING TITLE: ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-09
SHEET NO. 01.11.02.09

MATCH LINE SEE ILL-09

MATCH LINE SEE ILL-11

I-91 SB EXIT 27 TO SR 530
(AIRPORT ROAD)

CIR#1 (AIRPORT ROAD)

I-91 SB

6000+00

6001+0

146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00

I-91 NB

12E

3AB
63-035

CIR#3 (AIRPORT ROAD)

12E

3BC
63-037

12E

3CA
063-039

CIR#3 (AIRPORT ROAD)

12B

3AB
63-041

18"X12"X8" CIJB (SURFACE MOUNTED) (TYP.)

2½" FGC (SURFACE MOUNTED) WITH 3#2, 1 #8 GND

2½" FIBERGLASS STUB DOWN (TYP.) TO PROPOSED LIGHT STANDARD

CONNECTICUT

COORDINATE GRID

N S

END OF CIR #5
AIRPORT ROAD CABINET

END OF CIR #3
RESERVE ROAD CABINET

US 5/RTE 15 SB

CIR#5 (AIRPORT ROAD)

US 5/RTE 15 NB

OFFSET E: LOCATE FOUNDATION DIRECTLY BEHIND PRECAST CONCRETE BARRIER CURB.

*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-10.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

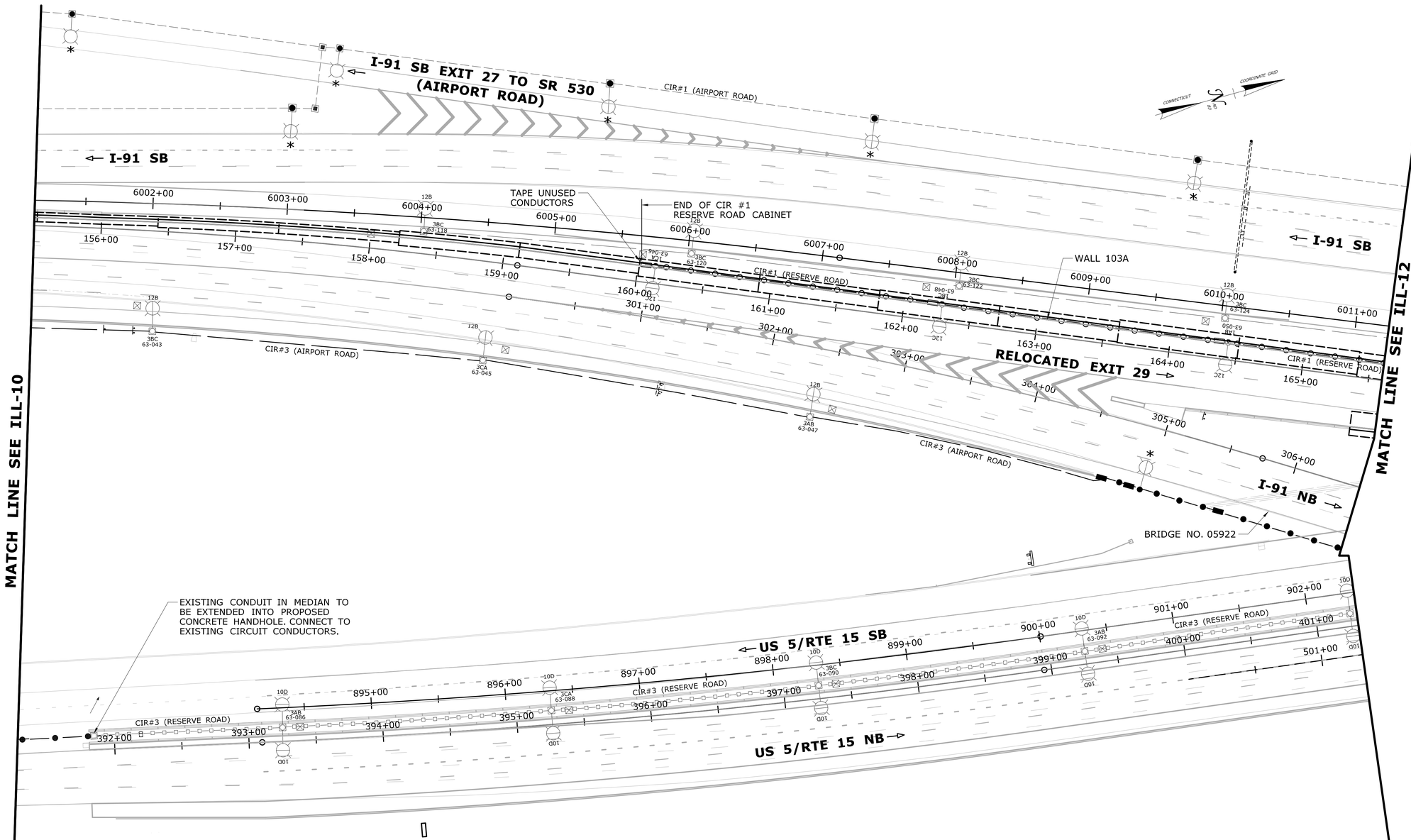
TOWN(S):
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-10

SHEET NO.
01.11.02.10



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 5/1/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-11.dgn

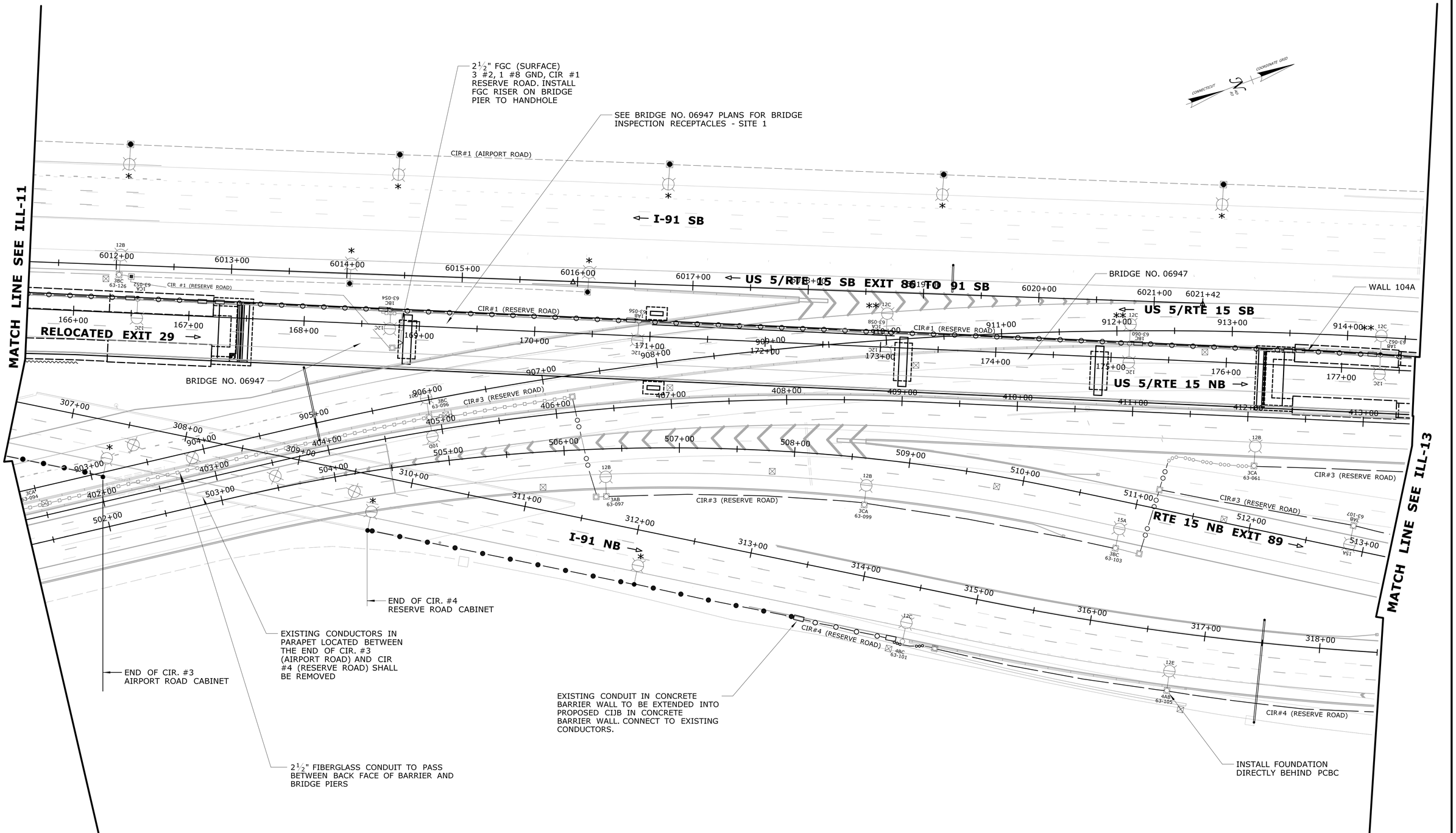
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN(S): HARTFORD
EAST HARTFORD

DRAWING TITLE: ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-11
SHEET NO. 01.11.02.11



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

** CLAMP ON LUMINAIRE BRACKET TO BE INSTALLED SO THAT THE BACKSIDE LUMINAIRE IS 40' ABOVE THE LOWER ROADWAY.

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: 5/14/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-12.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN: HARTFORD
EAST HARTFORD

DRAWING TITLE: ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-12
SHEET NO. 01.11.02.12

MATCH LINE SEE ILL-12

MATCH LINE SEE ILL-22

MATCH LINE SEE ILL-14

EXISTING RMC (SURFACE) BETWEEN CIJB IN PARAPET AND CIJB IN MEDIAN WITH 3 #2, 1 #8 GND. CIR. #1 RESERVE ROAD

$2\frac{1}{2}$" FGC (TRENCH) 6 #2, 1 #8 GND. (CIR. NOS. 4 & 6)

$2\frac{1}{2}$" FIBERGLASS CONDUIT IN TRENCH (2 #2, 1 #8 GND.) TO BE FED INTO EXISTING HANDHOLE AND CONNECTED TO EXISTING PHASE AB OF CIR. NO. 4

EXISTING RMC RISER TO BE REMOVED AND REPLACED WITH $2\frac{1}{2}$" FIBERGLASS CONDUIT AND FED INTO EXISTING CIJB IN PARAPET. EXISTING CONDUCTORS (RESERVE RD. CIR. 4 & 6) TO BE REPLACED AND FED INTO EXISTING HANDHOLE.

CONDUIT SHALL REMAIN EMPTY

TRANSITION RMC IN STRUCTURE TO CONDUIT IN MEDIAN AT CCHH

EXISTING CONDUIT IN MEDIAN TO BE EXTENDED INTO PROPOSED CONCRETE HANDHOLE. CONNECT 3 #2, 1 #8 GND. TO EXISTING CONDUCTORS.

$2\frac{1}{2}$" FGC RISER FROM HANDHOLE TO PROPOSED NON-METALLIC JUNCTION BOX. INSTALL FUSES IN JUNCTION BOX

ENTER EXISTING CIJB AND CONNECT TO EXISTING CIR NOS. 4 & 6

I-91 SB

US 5/RTE 15 SB EXIT 86 TO 91 SB

US 5/RTE 15 SB

WALL 104A

RELOCATED EXIT 29

US 5/RTE 15 NB

CIR#1 (RESERVE ROAD)

CIR#3 (RESERVE ROAD)

CIR#4 (RESERVE ROAD)

END OF CIR #3 RESERVE ROAD CABINET

RTE 15 NB EXIT 89

I-91 NB

OLD I-91 NB EXIT 29

RESERVE RD

$\frac{3}{4}$" SURFACE MOUNTED FGC WITH 3 #10

$2\frac{1}{2}$" FIBERGLASS CONDUIT IN TRENCH FED INTO EXISTING HANDHOLE

$2\frac{1}{2}$" FGC RISER FROM HANDHOLE TO PROPOSED NON-METALLIC JUNCTION BOX. INSTALL FUSES IN JUNCTION BOX

$\frac{3}{4}$" SURFACE MOUNTED FGC 3 #10, TYP. FOR UNDERBRIDGE LUMINAIRE'S

PROPOSED CABLE IN DUCT TO BE FED INTO EXISTING CAST IRON JUNCTION BOX. CONNECT TO EXISTING CIRCUIT CONDUCTORS

REMOVE UNDERBRIDGE LUMINAIRE

BRIDGE NO. 06000A

*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

** CLAMP ON LUMINAIRE BRACKET TO BE INSTALLED SO THAT THE BACKSIDE LUMINAIRE IS 40' ABOVE THE LOWER ROADWAY.

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: 5/14/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-13.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

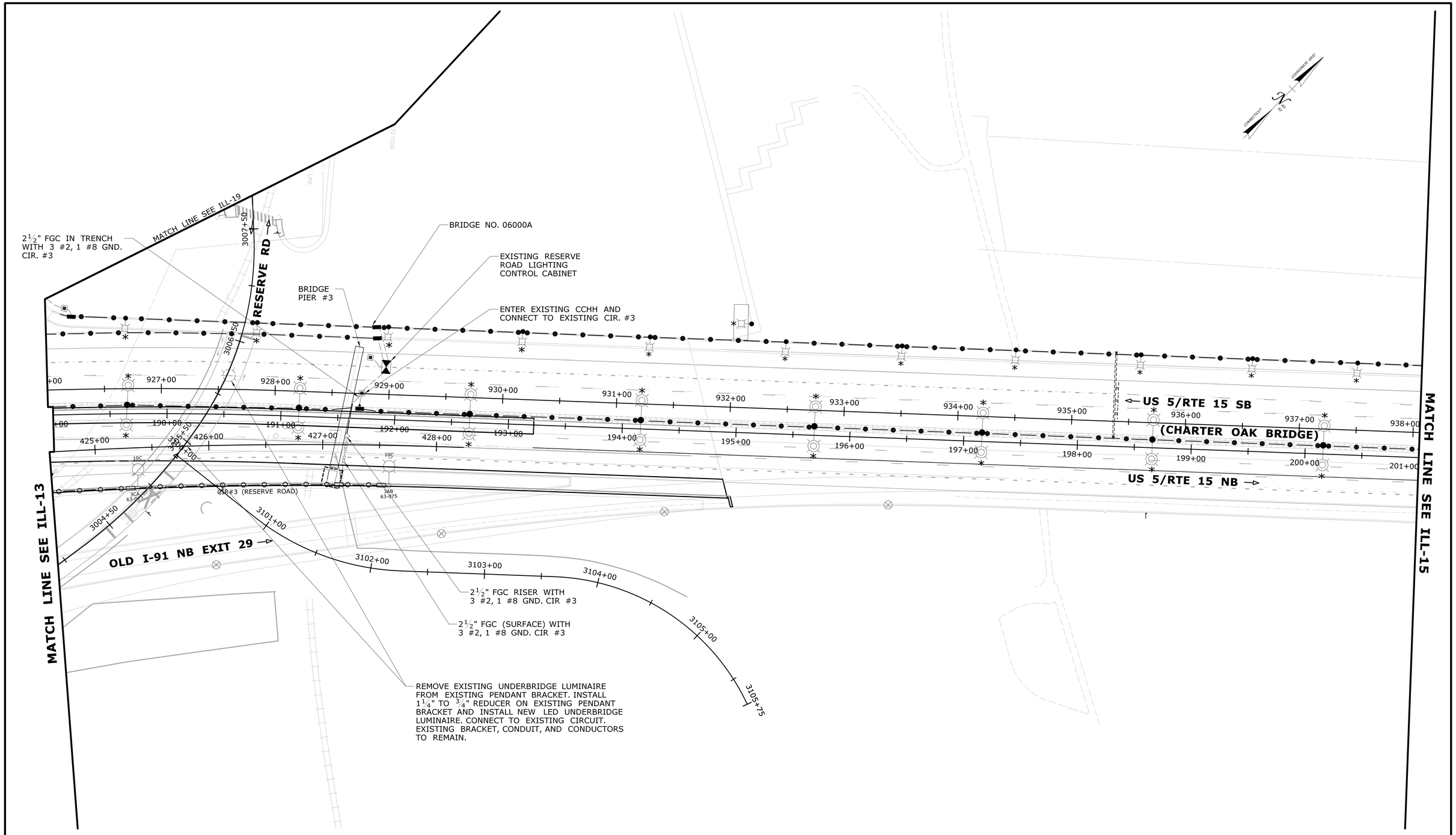
TOWN(S):
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. 63-703

DRAWING NO. ILL-13

SHEET NO. 01.11.02.13



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 4/30/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-14.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

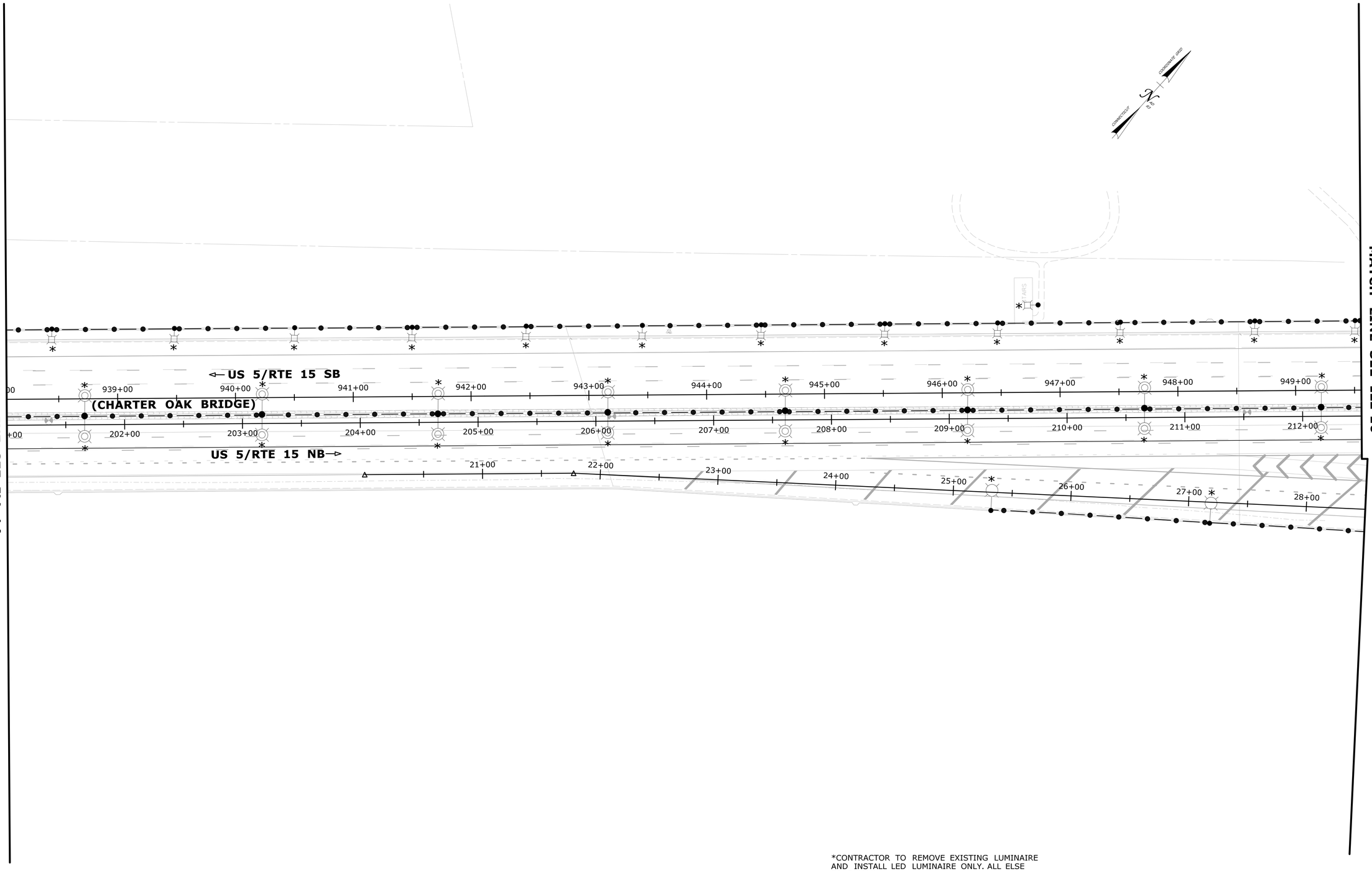
TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. 63-703

DRAWING NO. ILL-14

SHEET NO. 01.11.02.14



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-15.dgn

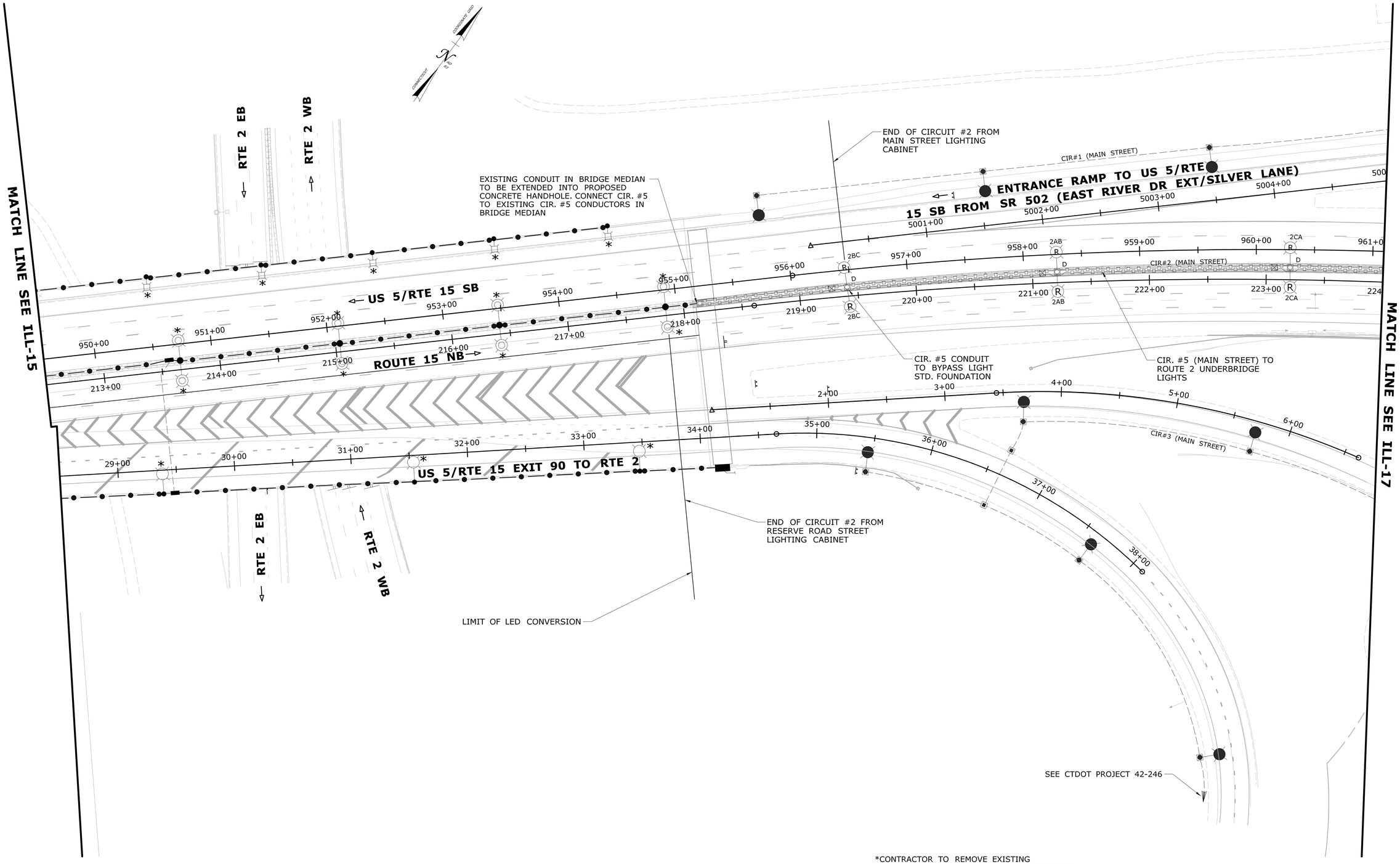
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-15
SHEET NO. 01.11.02.15



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW.MSH.0063.0703.04-07.ILL-16.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

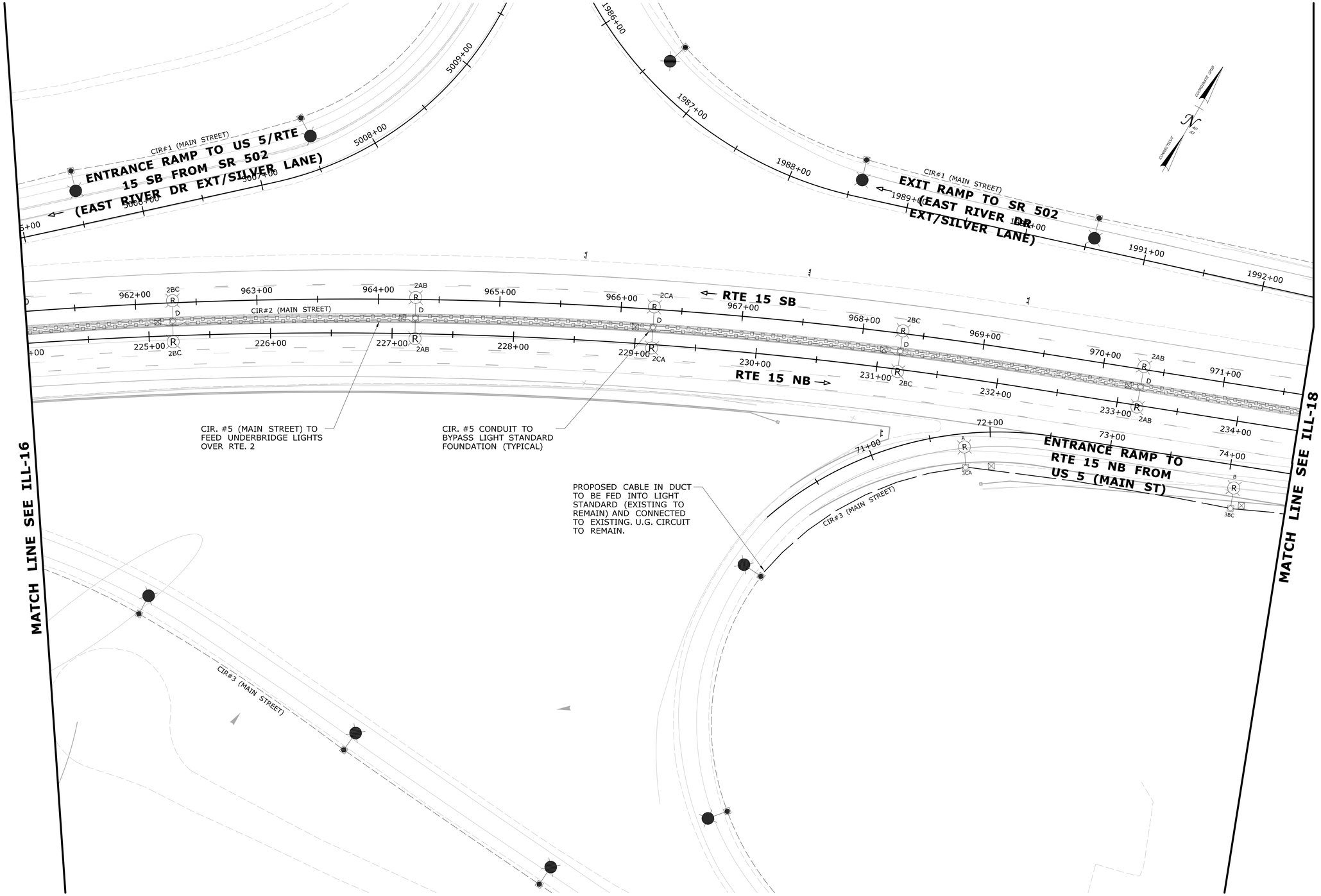
TOWN(S):
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO.
63-703

DRAWING NO.
ILL-16

SHEET NO.
01.11.02.16



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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-17.dgn

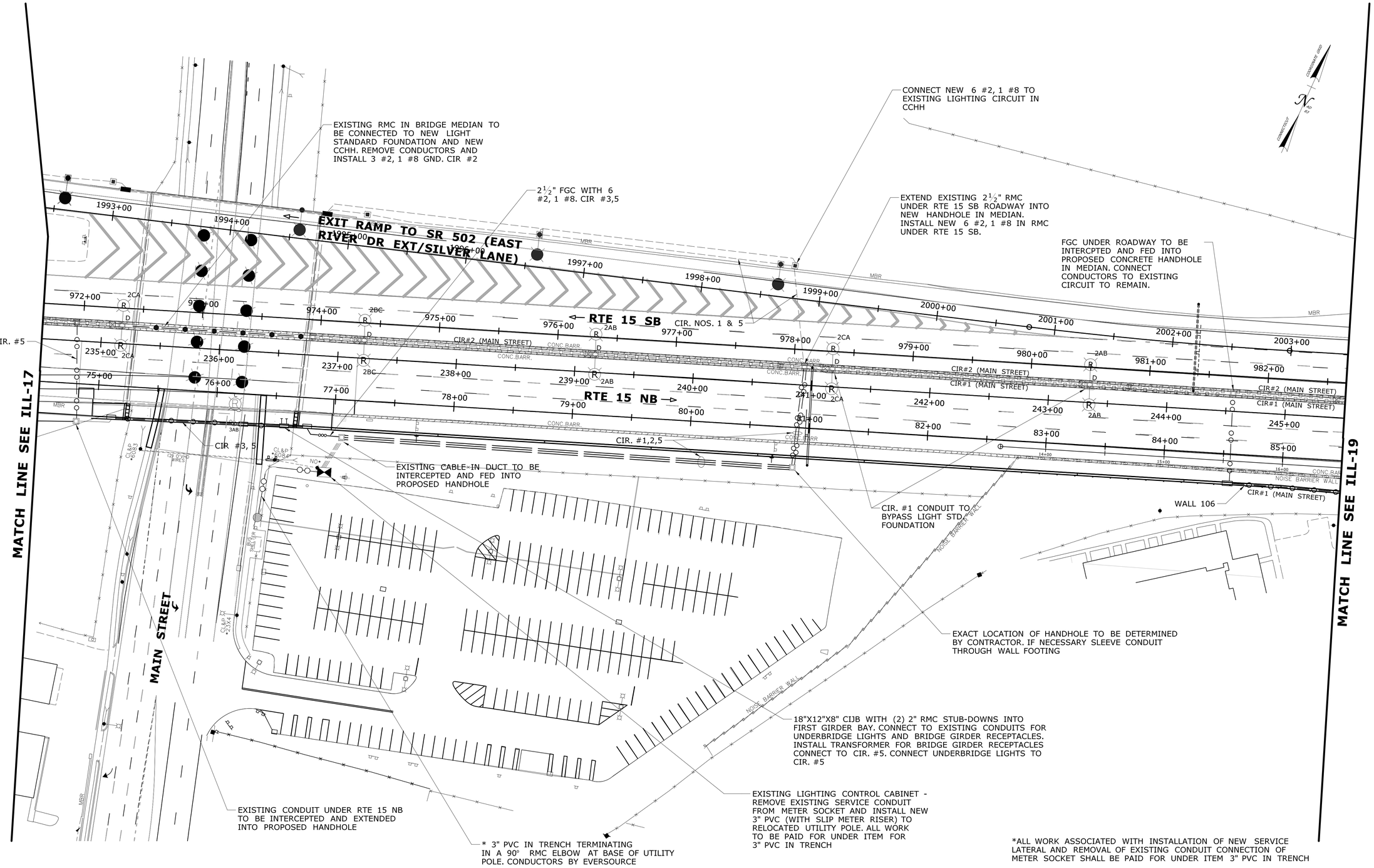
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN:
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**
DRAWING NO. **ILL-17**
SHEET NO. **01.11.02.17**



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: 4/26/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-18.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN:
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**
DRAWING NO. **ILL-18**
SHEET NO. **01.11.02.18**

MATCH LINE SEE ILL-18

MATCH LINE SEE ILL-20

PROPOSED CABLE IN DUCT TO BE FED INTO EXISTING LIGHT STANDARD AND CONNECTED TO EXISTING U.G. CIRCUIT TO REMAIN.

ENTRANCE RAMP TO RTE 15 SB

SR 502 (SILVER LANE)

LEAVE COINDUIT EMPTY

EXTEND EXISTING CONDUIT IN MEDIAN TO NEW LIGHT STANDARD FOUNDATION AND CONNECT TO EXISTING CIRCUIT.

RTE 15 SB

RTE 15 NB

WALL 106

END CIR. #2 FROM MAIN STREET LIGHTING CABINET

CIR. #1 CONDUIT TO BYPASS LIGHT STD. FOUNDATION

END OF CIR. #1 FROM CLEMENT ROAD LIGHTING CABINET

RTE 15 NB EXIT 91 TO SR 502 (SILVER LANE)

LAWRENCE ST

PROPOSED CABLE IN DUCT TO BE FED INTO EXISTING LIGHT STANDARD AND CONNECT TO EXISTING U.G. CIRCUIT.

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: 4/16/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-19.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

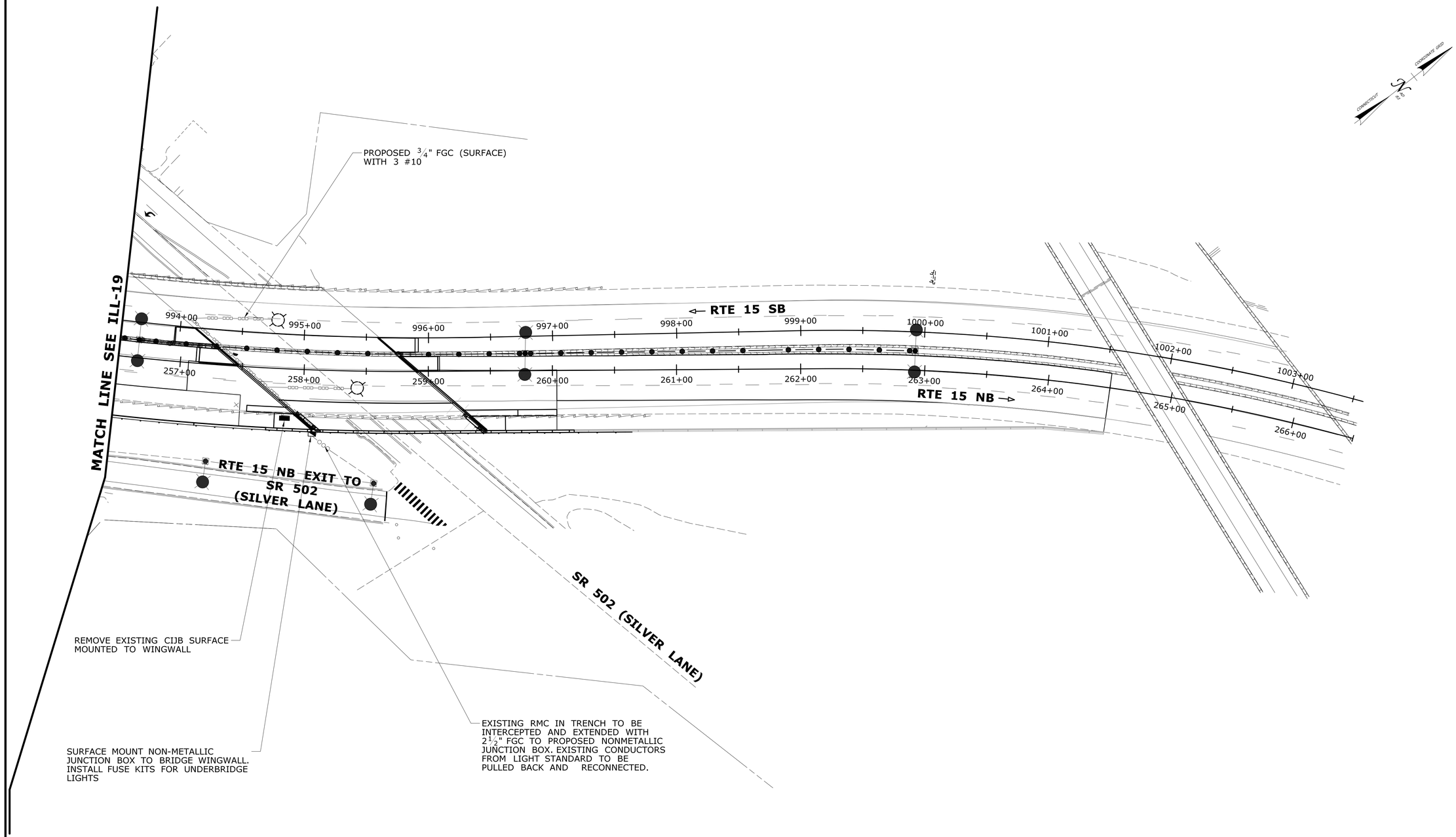
TOWN: EAST HARTFORD

DRAWING TITLE: ILLUMINATION PLAN

PROJECT NO. 63-703

DRAWING NO. ILL-19

SHEET NO. 01.11.02.19



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: 5/14/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-20.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

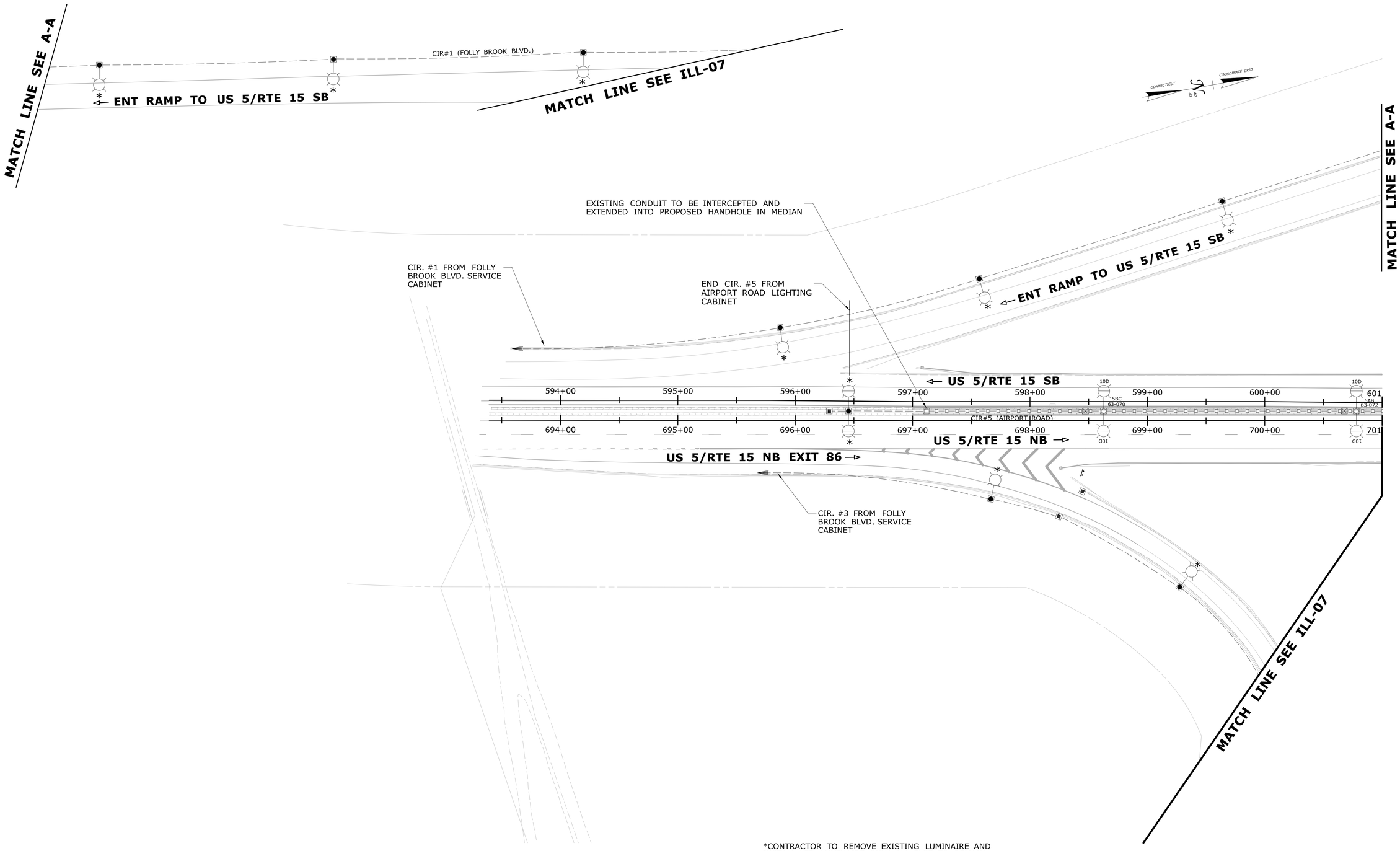
APPROVED BY:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN:
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. 63-703
DRAWING NO. ILL-20
SHEET NO. 01.11.02.20



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-21.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

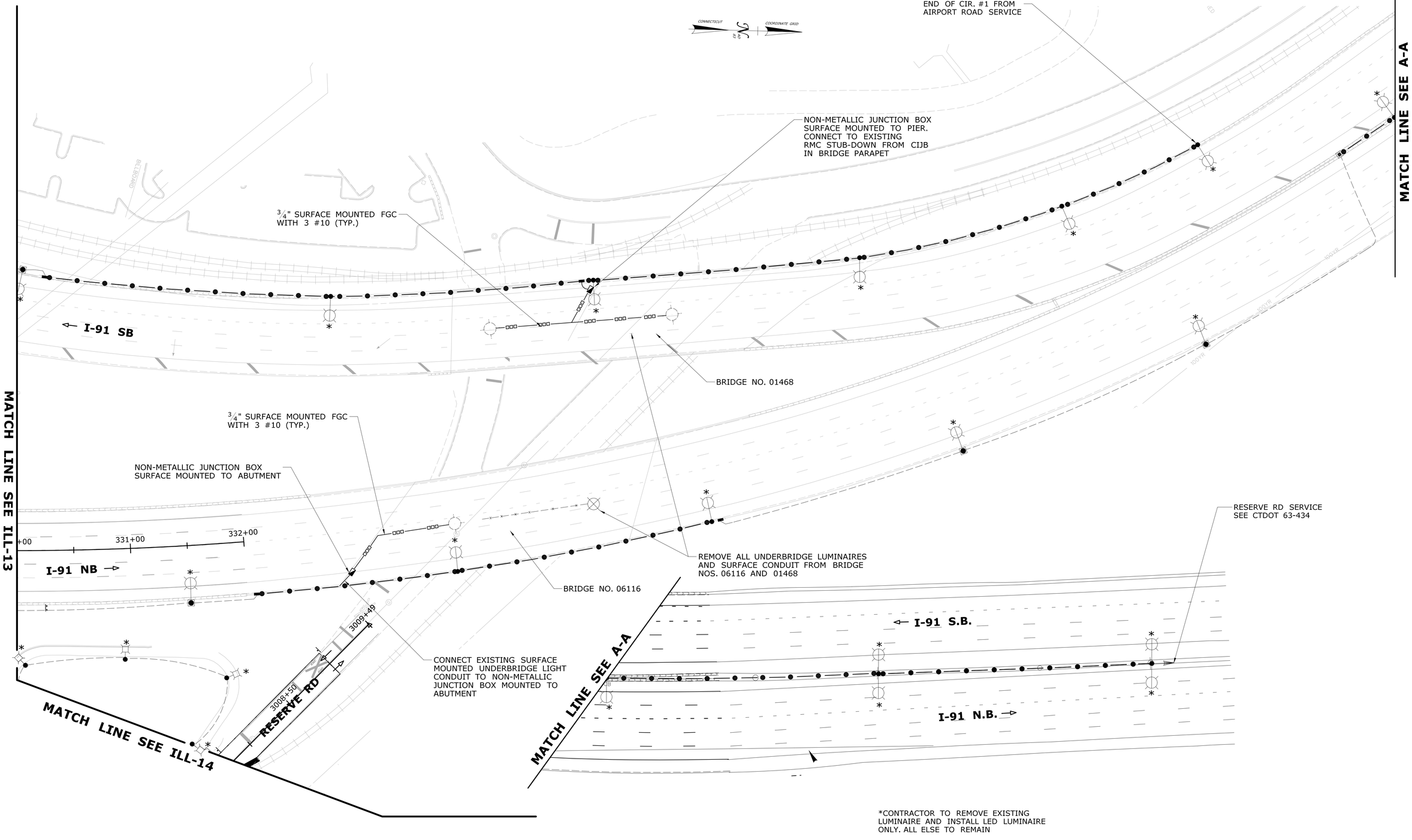
CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**

DRAWING NO. **ILL-21**

SHEET NO. **01.11.02.21**



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: 5/14/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW.MSH.0063.0703.04-07.ILL-22.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 15 NB TO I-84 EB

TOWN(S):
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**
DRAWING NO. **ILL-22**
SHEET NO. **01.11.02.22**

MATCH LINE SEE ILL-09

MATCH LINE SEE ILL-24

MATCH LINE SEE ILL-08

RTE. 15 S.B.

RTE. 15 N.B.

CIR#5 (AIRPORT ROAD)

CIR#6 (AIRPORT ROAD)

CIR#6 (AIRPORT ROAD)

BRAINARD ROAD

619+00

620+00

621+00

719+00

720+00

721+00

COORDINATE GRID

NAD 83

CONNECTICUT

*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04-07_ILL-23.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

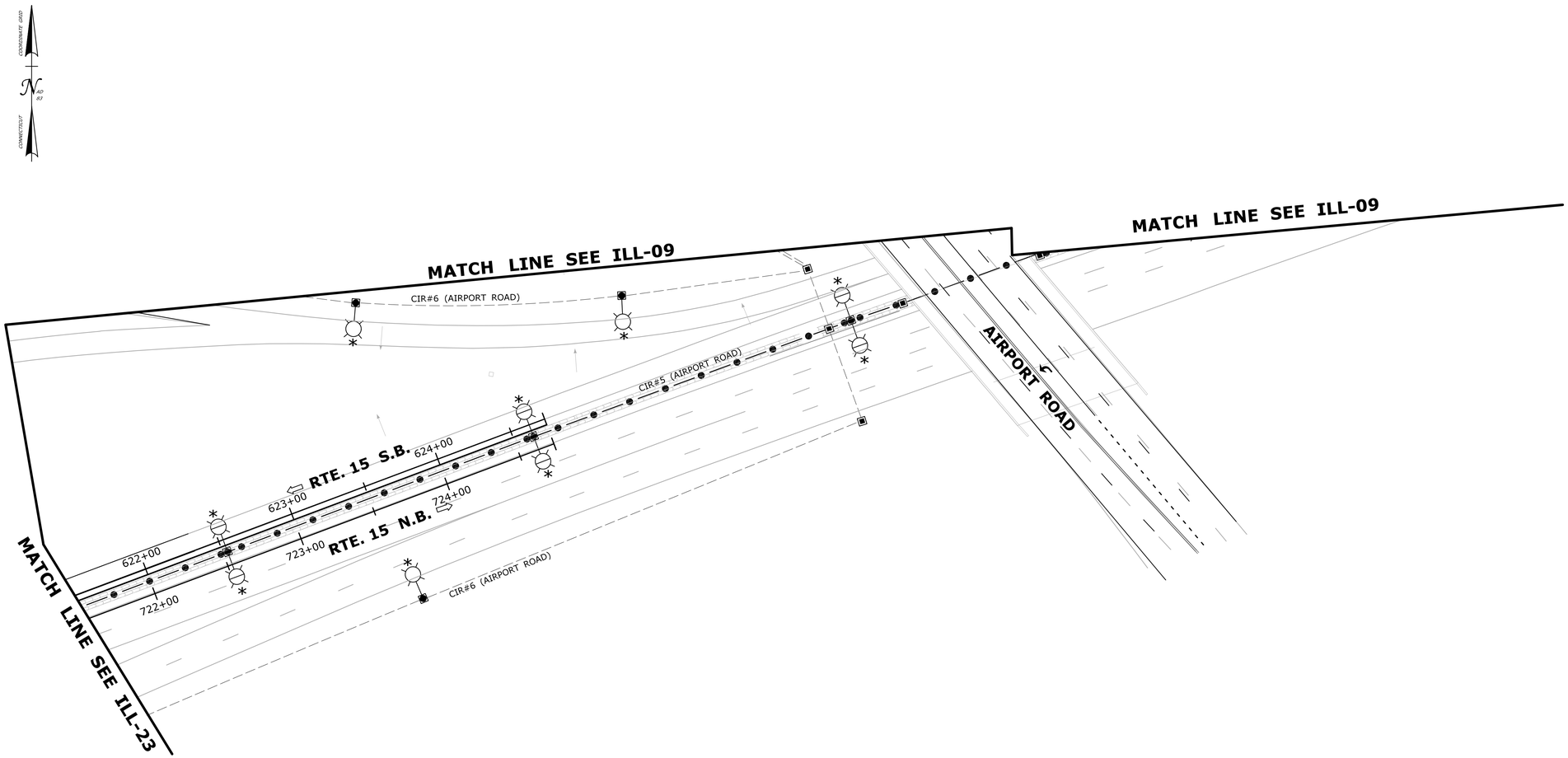
CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO. **63-703**

DRAWING NO. **ILL-23**

SHEET NO. **01.11.02.23**



*CONTRACTOR TO REMOVE EXISTING LUMINAIRE AND INSTALL LED LUMINAIRE ONLY. ALL ELSE TO REMAIN

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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04_07_ILL-24.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

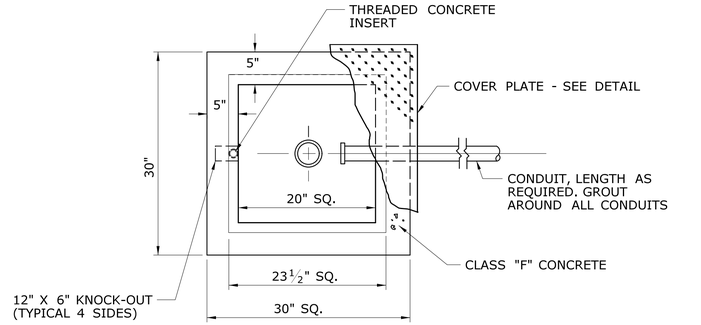
CITY/TOWN:
HARTFORD
EAST HARTFORD

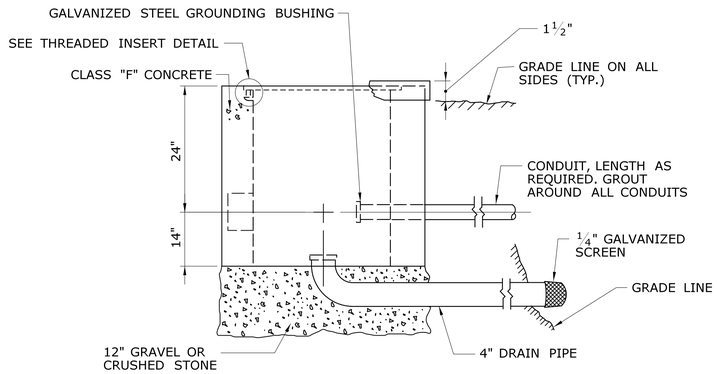
DRAWING TITLE:
ILLUMINATION PLAN

PROJECT NO.
63-703

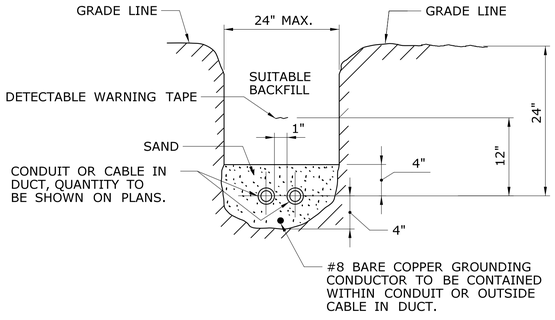
DRAWING NO.
ILL-24

SHEET NO.
01.11.02.24

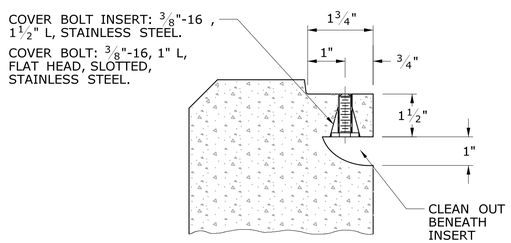




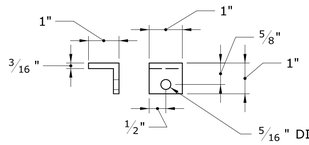
CONCRETE HANDHOLE - TYPE I



BURIED CONDUIT OR CABLE IN DUCT

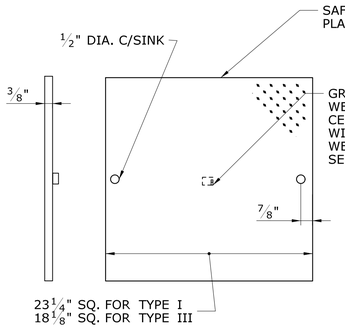


THREADED INSERT



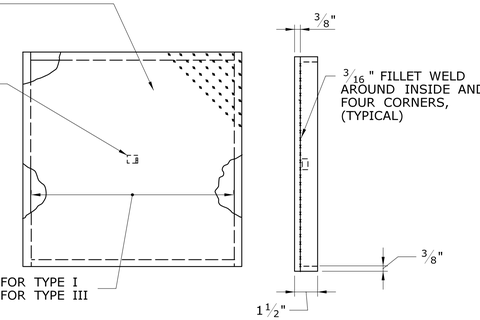
STEEL GROUNDING TAB

NOTE:
ATTACH 72" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, ¼" x ¾" LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.



RECESSED COVER TO BE USED IN MEDIAN, IN PAVEMENT, IN SIDEWALK, OR WHERE INDICATED ON PLANS.

RECESSED TYPE COVER



*GALVANIZE COMPLETE COVER ASSEMBLY AFTER WELDING

OVERLAP TYPE COVER

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: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04_07_ILL-25-HANDHOLE.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

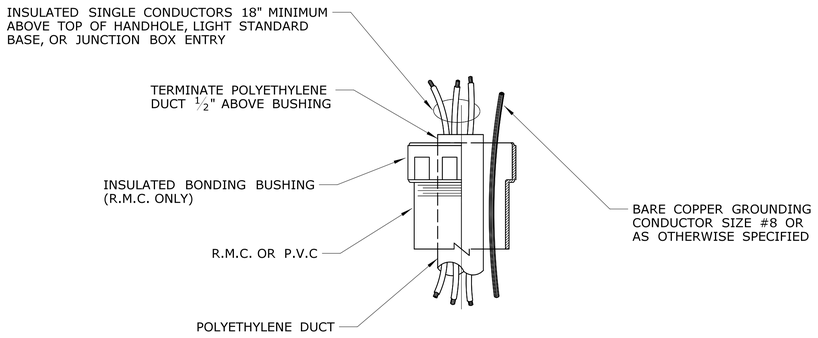
CITY/TOWN: **HARTFORD EAST HARTFORD**

DRAWING TITLE: **CONCRETE HANDHOLES**

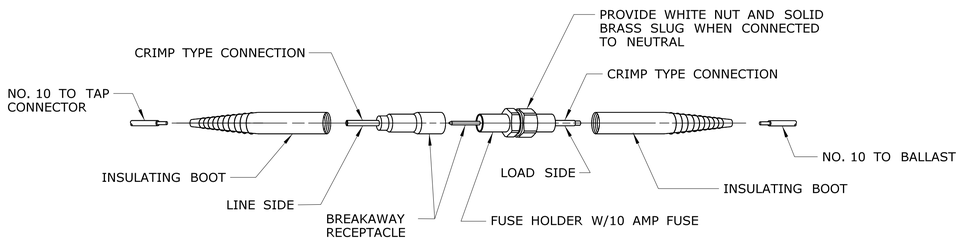
PROJECT NO. **63-703**

DRAWING NO. **ILL-25**

SHEET NO. **01.11.02.25**

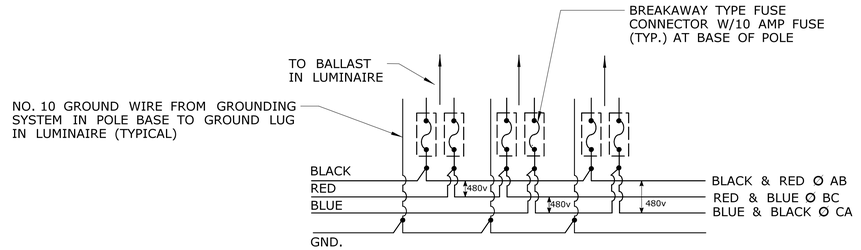


CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

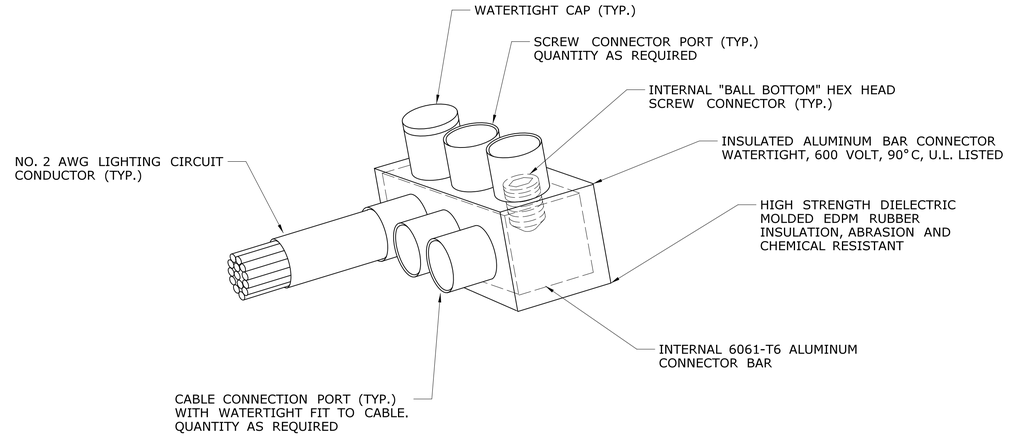


BREAKAWAY FUSE CONNECTOR

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

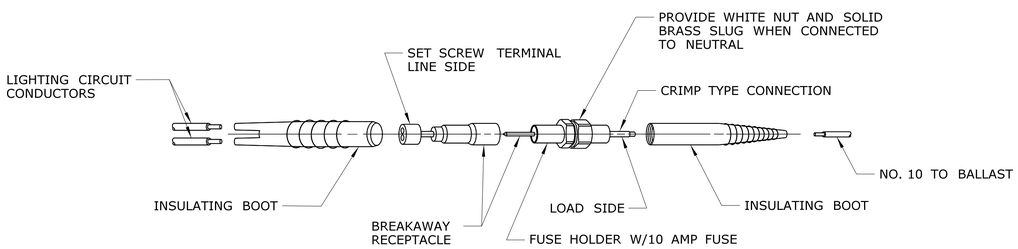


3 PHASE 3 WIRE SYSTEM

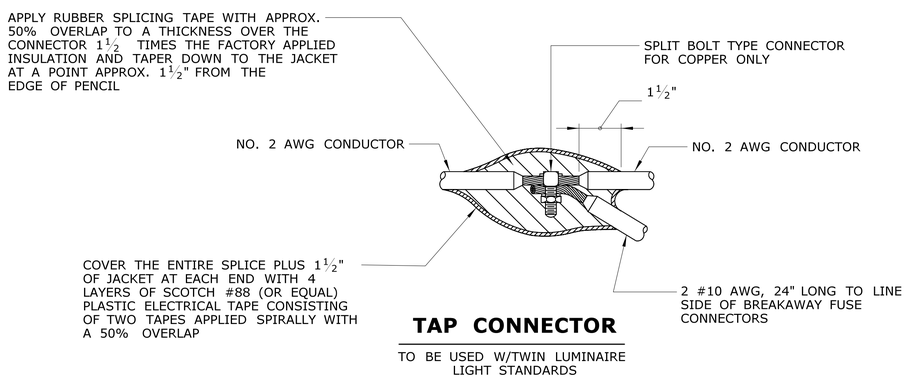


WATERTIGHT CONNECTOR

TO BE USED IN HANDHOLES AND JUNCTION BOXES



BREAKAWAY FUSE CONNECTOR



TAP CONNECTOR

TO BE USED W/TWIN LUMINAIRE LIGHT STANDARDS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04_07_ILL-26-ELECTICAL CONNECTIONS.dgn

SIGNATURE/ BLOCK:

-

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

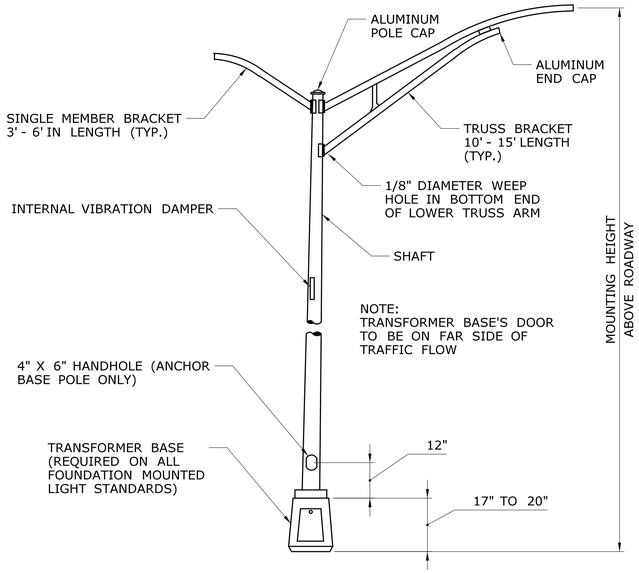
CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
ELECTRICAL CONNECTIONS

PROJECT NO. 63-703

DRAWING NO. ILL-26

SHEET NO. 01.11.02.26



ALUMINUM LIGHT STANDARD

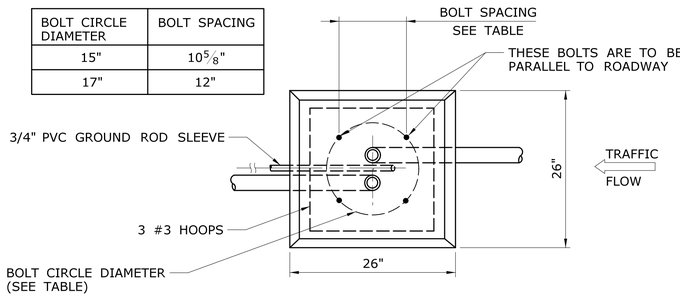
ALUMINUM LIGHT STANDARD - DIMENSION TABLE							
MOUNTING HEIGHT	BRACKET LENGTH	SHAFT DIAMETER		SHAFT WALL THICKNESS	BASE TYPE	ANCHOR BOLT SIZE	BOLT CIRCLE DIAMETER
		BOTTOM	TOP				
30'	6'	8"	6"	.156"	TRANSFORMER	1" x 40"	15"
30'	10'	8"	6"	.188"	ANCHOR	1" x 40"	11"
30'	12'	8"	6"	.188"	TRANSFORMER	1" x 40"	15"
40'	10'	10"	6"	.188"	ANCHOR	1" x 40"	15"
40'	12'	10"	6"	.188"	ANCHOR	1" x 40"	15"
40'	12'	10"	6"	.188"	TRANSFORMER	1" x 40"	15"
40'	15'	10"	6"	.188"	TRANSFORMER	1" x 40"	15"
40'	TWIN 10'	10"	6"	.312"	TRANSFORMER	1" x 40"	15"
40'	TWIN 12'	10"	6"	.312"	TRANSFORMER	1" x 40"	15"
** 40'	TWIN 12'	10"	6"	.312"	ANCHOR	1" x 40"	15"

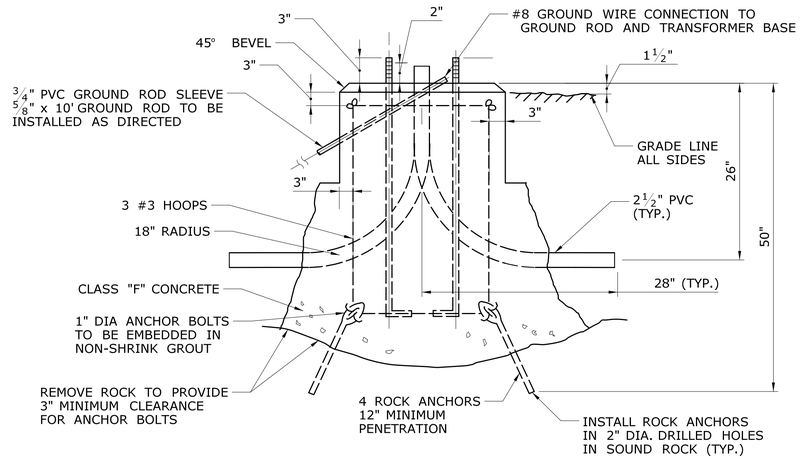
** NOTE: THE BRACKET ARMS ON THIS LIGHT STANDARD SHALL BE CLAMP ON TYPE AND CAPABLE OF MOUNTING AT VARIOUS LOCATIONS ALONG THE POLE SHAFT TO PROVIDE THE 40' LUMINAIRE MOUNTING HEIGHT OVER THE ROADWAY AS CALLED FOR ON THE PLANS

LIGHT STANDARD NOTES:

1) ALUMINUM ALLOY SHALL BE 6063, T6 TEMPER.
2) BOLT CIRCLE SHOWN IS FOR ANCHOR BASE BOTTOM OR TRANSFORMER BASE BOTTOM (WHICHEVER IS APPLICABLE).
3) TO BE DESIGNED TO AASHTO "STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 90 M.P.H. WINDS.
4) WELDING DESIGN AND FABRICATION SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/AWS D1.2, STRUCTURAL WELDING CODE - ALUMINUM.
5) 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).
6) 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.

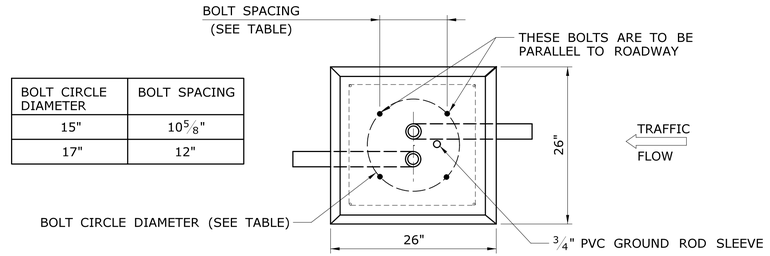
BOLT CIRCLE DIAMETER	BOLT SPACING
15"	$10\frac{5}{8}$"
17"	12"

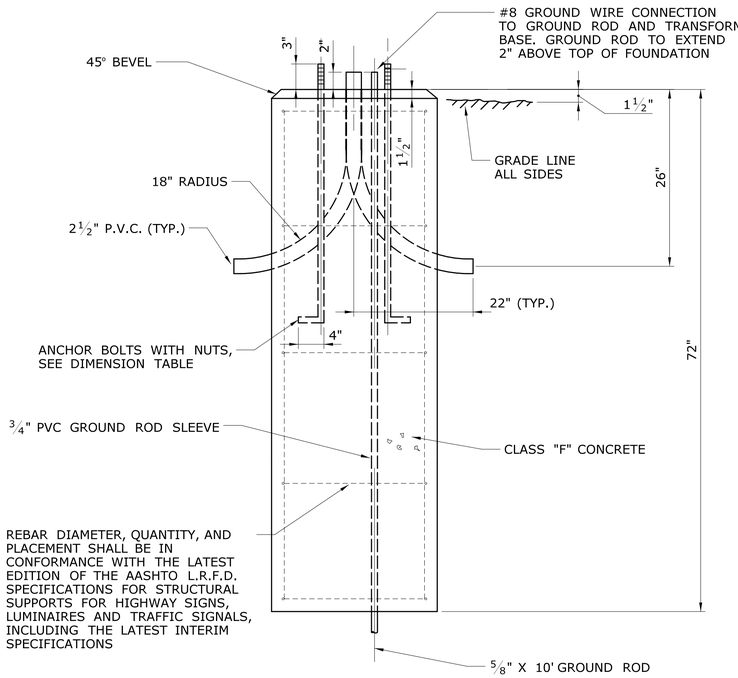




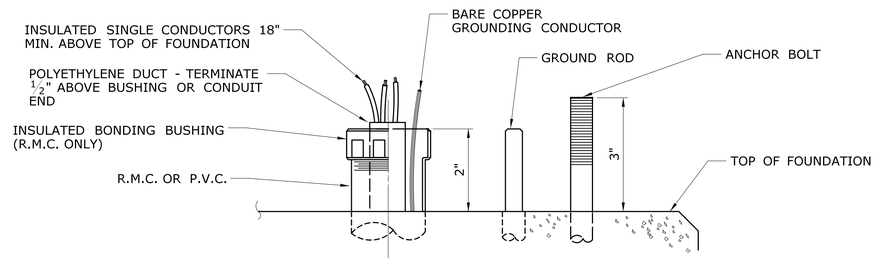
LIGHT STANDARD FOUNDATION - TYPE II

BOLT CIRCLE DIAMETER	BOLT SPACING
15"	$10\frac{5}{8}$"
17"	12"





LIGHT STANDARD FOUNDATION - TYPE I



CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/9/2018

DESIGNER/DRAFTER: DDR
CHECKED BY: MSB
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/ BLOCK:

Filename: ...\HW_MSH_0063_0703_04_07_ILL-27 - LIGHT STANDARD AND FOUNDATION.dgn

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

CITY/TOWN: **HARTFORD EAST HARTFORD**

DRAWING TITLE: **LIGHT STANDARDS AND FOUNDATIONS**

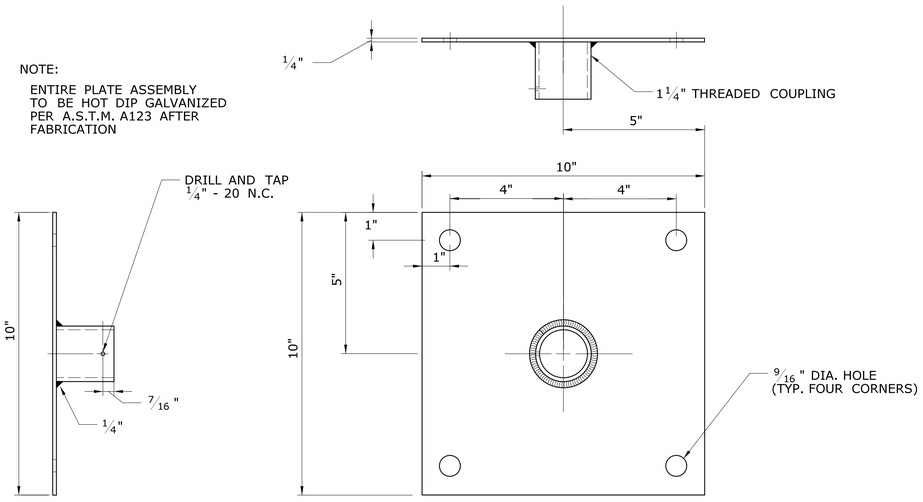
PROJECT NO. **63-703**
DRAWING NO. **ILL-27**
SHEET NO. **01.11.02.27**

NOTE:

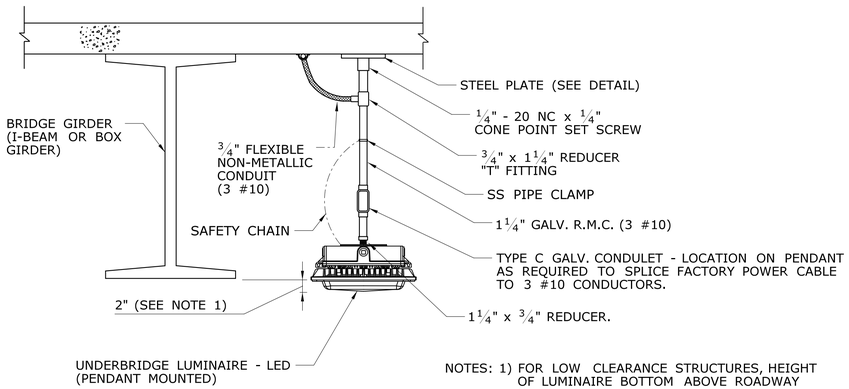
STEEL PLATE TO BE ATTACHED TO BRIDGE DECK USING CONNECTICUT D.O.T. APPROVED MECHANICAL ANCHOR (4). THREADED ROD SHALL BE $\frac{1}{2}$" IN DIAMETER, 316 STAINLESS STEEL. MECHANICAL ANCHOR SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

NOTE:

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



STEEL PLATE FOR PENDANT LUMINAIRE



NOTES: 1) FOR LOW CLEARANCE STRUCTURES, HEIGHT OF LUMINAIRE BOTTOM ABOVE ROADWAY SHALL NOT BE LESS THAN 14' - 3"

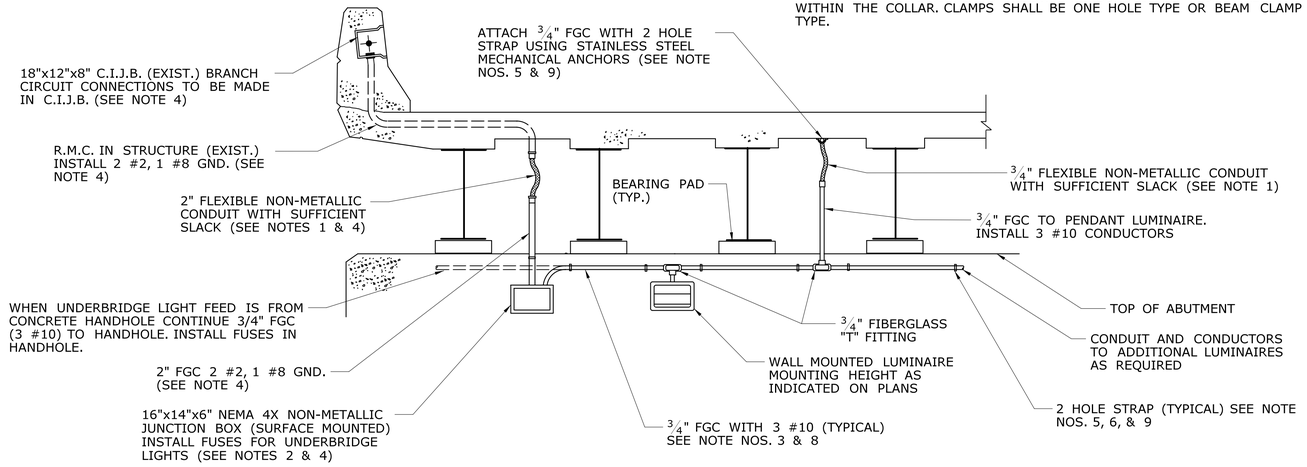
2) LUMINAIRE MOUNTING METHOD SHALL MAINTAIN IP66 RATING OR U.L. WET LOCATION LISTING OF LUMINAIRE

3) APPLY WATERPROOF THREAD SEALER TO ALL THREADED PENDANT CONNECTIONS (TYP.)

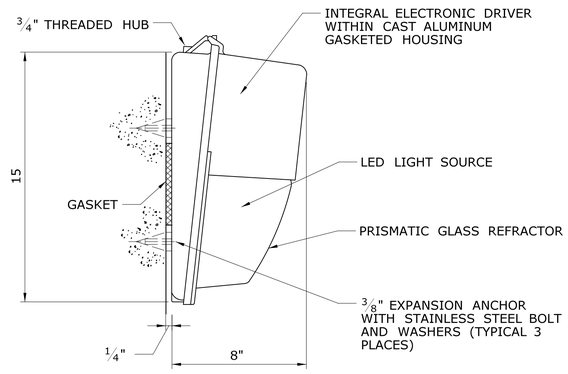
UNDERBRIDGE LUMINAIRE - PENDENT MOUNTING

NOTES:

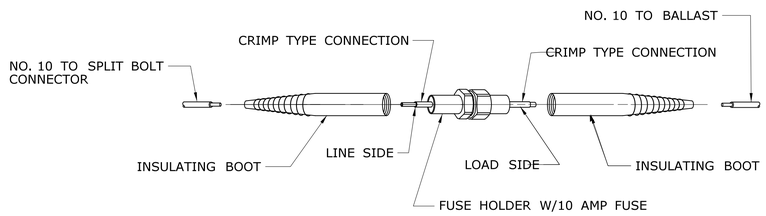
1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE MAXIMUM AMOUNT OF MOVEMENT BETWEEN THE BRIDGE SUPERSTRUCTURE AND THE ABUTMENT/PIER. AN APPROPRIATE LENGTH OF FLEXIBLE CONDUIT SHALL BE INSTALLED TO ACCOMODATE THIS MOVEMENT.
2. SURFACE MOUNTED JUNCTION BOX SHALL BE PAID FOR UNDER ITEM NO. 1009503A. 2" FGC (SURFACE), 2" FLEXIBLE CONDUIT (LFNC), NO. 2 CONDUCTORS, AND NO. 8 GROUNDING CONDUCTOR TO BE INCLUDED AS PART OF UNDERBRIDGE LIGHT ITEM.
3. 3/4" FIBERGLASS CONDUIT (FGC) SHALL BE STANDARD WALL TYPE (0.070" WALL THICKNESS). 2" FIBERGLASS CONDUIT SHALL BE EXTRA HEAVY WALL TYPE (0.250" WALL THICKNESS)
4. IF THE LIGHTING PLANS INDICATE THAT THE ELECTRICAL FEED TO THE UNDERBRIDGE LUMINAIRE IS TO COME FROM AN ADJACENT CONCRETE HANDHOLE, THEN THE SURFACE MOUNTED JUNCTION BOX, 2" LFNC, 2" FGC, AND CONDUCTORS BACK TO THE CIJB ARE NOT TO BE INSTALLED. FOR FEED FROM CONCRETE HANDHOLE, EXTEND 3/4" FGC (WITH 3 #10) TO HANDHOLE, INSTALL FUSE KITS, AND MAKE CIRCUIT CONNECTION IN HANDHOLE.
5. CONDUIT SUPPORT SPACING SHALL NOT EXCEED 3'-0" AS PER N.E.C. 355.30.
6. ALL MECHANICAL ANCHORS AND MOUNTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
7. WHEN THE FGC IS 50' TO 200' LONG, INSTALL ONE SINGLE EXPANSION CONDUIT JOINT (4" MOVEMENT) AT THE MID-POINT OF THE CONDUIT RUN. FOR CONDUIT LENGTHS OVER 200', INSTALL ONE SINGLE EXPANSION CONDUIT JOINT EVERY 200'. AT BRIDGE EXPANSION JOINTS, INSTALL ONE DOUBLE EXPANSION (8" MOVEMENT) CONDUIT JOINT. CONDUIT EXPANSION JOINTS SHALL HAVE AN INTERNAL O-RING.
8. WHERE FIBERGLASS CONDUIT IS FIELD CUT, THE OUTSIDE SURFACE OF THE CUT END SHALL BE SANDED TO REMOVE THE RESIN GLAZE PRIOR TO APPLYING ADHESIVE.
9. WHEN ATTACHING FGC TO CONCRETE, TWO HOLE MOUNTING STRAPS SHALL BE USED. THE TWO HOLE MOUNTING STRAPS SHALL BE SIZED TO ALLOW THE CONDUIT TO FLOAT FREELY WITHIN THE STRAP.
10. WHEN ATTACHING FGC TO STEEL, A "SLIP COLLAR" SHALL BE INSTALLED AT ALL CLAMP LOCATIONS TO ALLOW THE CONDUIT TO FLOAT FREELY WITHIN THE COLLAR. CLAMPS SHALL BE ONE HOLE TYPE OR BEAM CLAMP TYPE.



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



UNDERBRIDGE LUMINAIRE (WALL MOUNTED)



INSULATED FUSE CONNECTOR

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/9/2018

DESIGNER/DRAFTER: DDR

CHECKED BY: MSB

NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04_07_ILL-28-UNDERBRIDGE LUMINAIRES.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

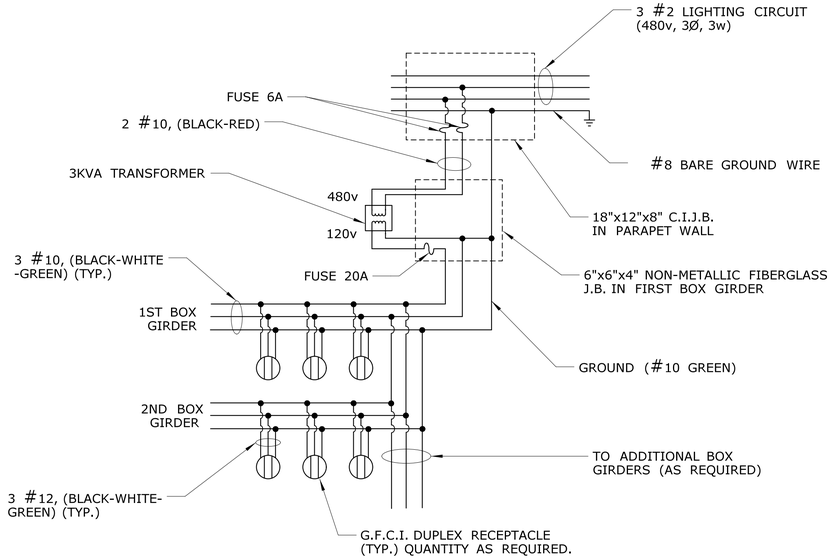
CITY/TOWN: **HARTFORD EAST HARTFORD**

DRAWING TITLE: **UNDERBRIDGE LUMINAIRE**

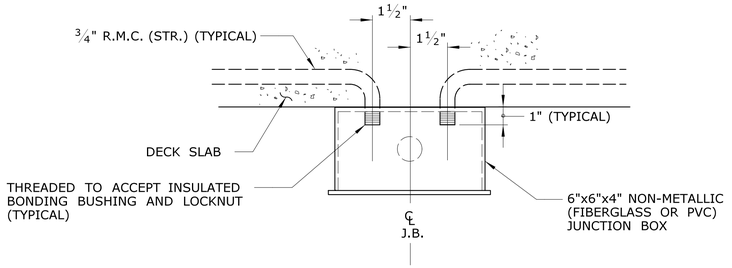
PROJECT NO. **63-703**

DRAWING NO. **ILL-28**

SHEET NO. **01.11.02.28**



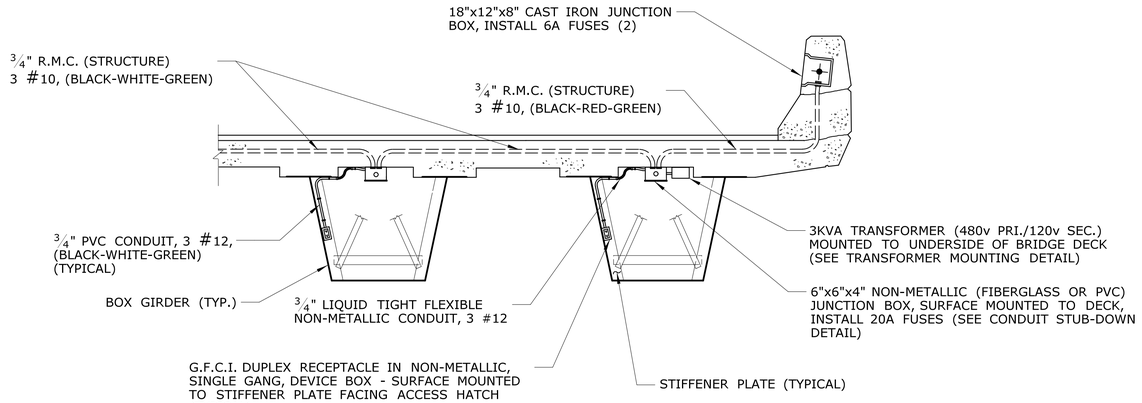
BRIDGE INSPECTION RECEPTACLE WIRING DIAGRAM



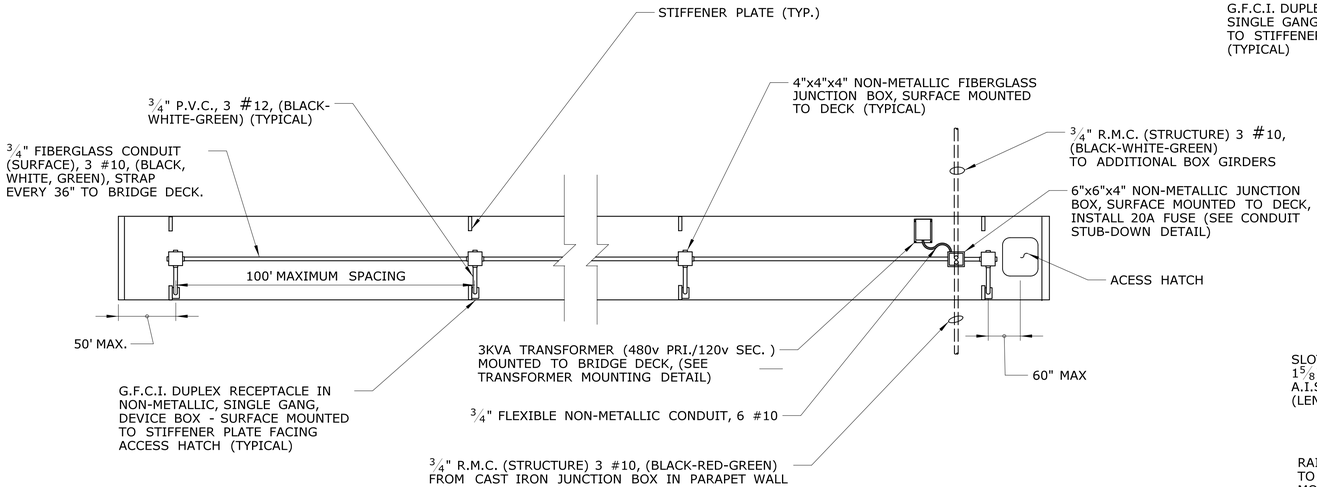
CONDUIT STUB-DOWN DETAIL

NOTES:

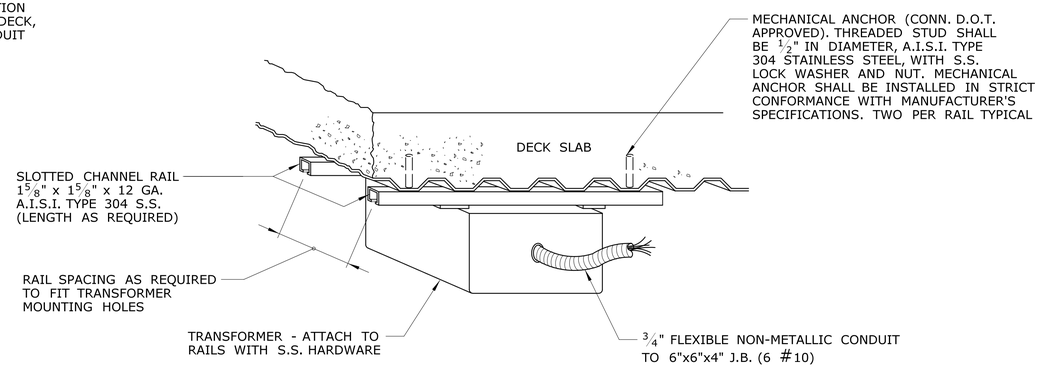
1) LATERAL PLACEMENT OF CONDUIT CAN BE ADJUSTED TO AVOID OBSTRUCTIONS.
2) 3/4" FLEXIBLE NON-METALLIC CONDUIT SHALL BE USED AT ALL LOCATIONS SUBJECT TO MOVEMENT OR EXPANSION.
3) 3/4" FIBERGLASS CONDUIT SHALL BE STANDARD WALL TYPE (0.070" WALL THICKNESS).
4) FOR FIBERGLASS CONDUIT LENGTHS OVER 50', THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION FITTING. EXPANSION FITTINGS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S GUIDELINES.
5) SUPPORT SPACING OF FIBERGLASS CONDUIT SHALL NOT EXCEED 3'-0" AS PER N.E.C. 355.30.
6) WHERE FIBERGLASS CONDUIT IS FIELD CUT, THE OUTSIDE SURFACE OF THE CUT END SHALL BE SANDED TO REMOVE THE RESIN GLAZE PRIOR TO APPLYING ADHESIVE.



TYPICAL BRIDGE SECTION



TYPICAL BOX GIRDER (TOP VIEW)



TRANSFORMER MOUNTING DETAIL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/9/2018

DESIGNER/DRAFTER: MSB
CHECKED BY: JA
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063_0703_04_07_ILL-29-BRIDGE INSPECTION RECEPTACLES.dgn

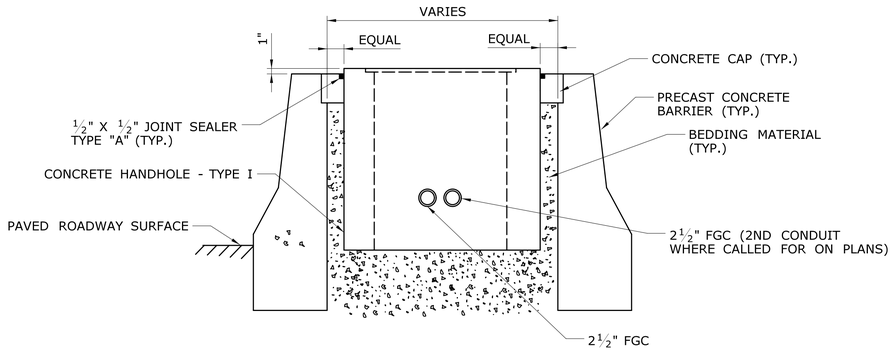
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:
DATE ISSUED: 1/1/2017

PROJECT TITLE: RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

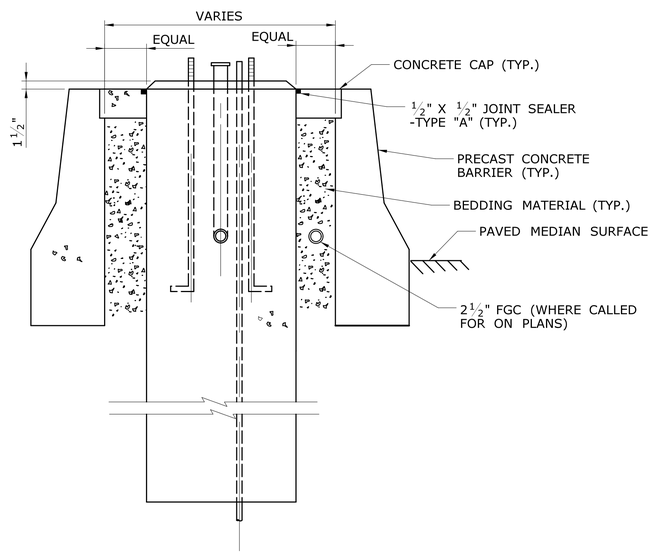
TOWN: HARTFORD EAST HARTFORD

DRAWING TITLE: BRIDGE INSPECTION RECEPTACLES

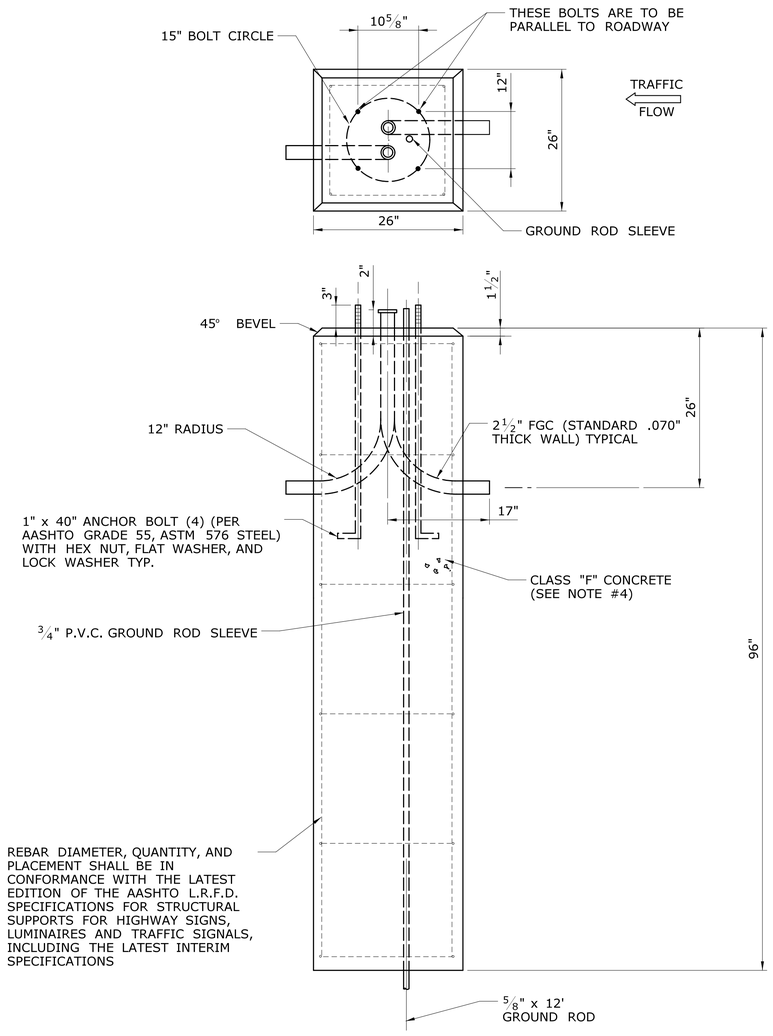
PROJECT NO. 63-703
DRAWING NO. ILL-29
SHEET NO. 01.11.02.29



CONCRETE HANDHOLE IN MEDIAN



LIGHT STANDARD FOUNDATION IN MEDIAN



LIGHT STANDARD FOUNDATION - TYPE III

NOTES:

1) FIBERGLASS CONDUIT (FGC) SWEEPS SHALL BE STANDARD WALL (.070" WALL THICKNESS) TYPE.
2) FIBERGLASS CONDUIT IN MEDIAN FILL SHALL HAVE INTERFERENCE JOINTS PERMANENTLY BONDED WITH ADHESIVE.
3) FIBERGLASS CONDUIT ENTERING A CONCRETE HANDHOLE SHALL BE TERMINATED WITH A BELL END.
4) FOUNDATION TO BE PRE-CAST.

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: 3/21/2018

DESIGNER/DRAFTER: MSB
CHECKED BY: JA
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0063-0703_04_07_ILL-30-MEDIAN FOUNDATION.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RELOCATION OF I-91 NB INTERCHANGE 29 AND WIDENING OF I-91 NB AND ROUTE 5/15 NB TO I-84 EB

CITY/TOWN:
HARTFORD
EAST HARTFORD

DRAWING TITLE:
MEDIAN ELECTRICAL DETAILS

PROJECT NO. **63-703**
DRAWING NO. **ILL-30**
SHEET NO. **01.11.02.30**