01.11 - IMS - HIGHWAY OPERATIONS
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
IMS - 01	SITE 1 - FOR INFORMATION ONLY		
IMS - 02	SITE 3 - FOR INFORMATION ONLY		
IMS - 03	SITE 5 - FOR INFORMATION ONLY		
IMS - 04	SITE 7 - FOR INFORMATION ONLY		
IMS - 05	SITE 9 - FOR INFORMATION ONLY		

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.

Harold Decker
2018.06.25
12:58:32-04'00'

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: 6/20/2018

DESIGNER/DRAFTER:

CHECKED BY:

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_MSH_DRAWING_INX_0170_3447.dgn

SIGNATURE/ BLOCK:

BUREAU OF HIGHWAY OPERATIONS

APPROVED BY:

PROJECT TITLE:

STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORT ON VARIOUS ROUTES

TOWN: VARIOUS

DRAWING TITLE: INDEX OF DRAWING

PROJECT NO. 170-3447

DRAWING NO.

SHEET NO. 01.11.01

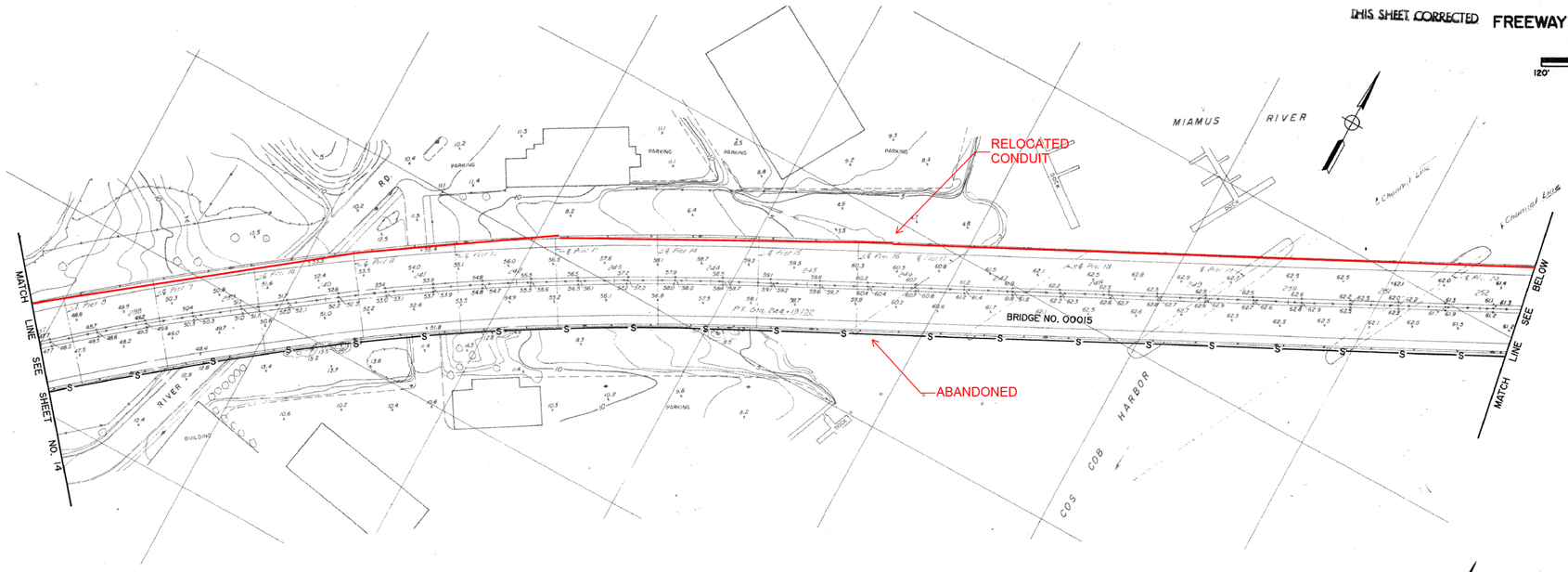
FORM TRA-26 REV. 9/89

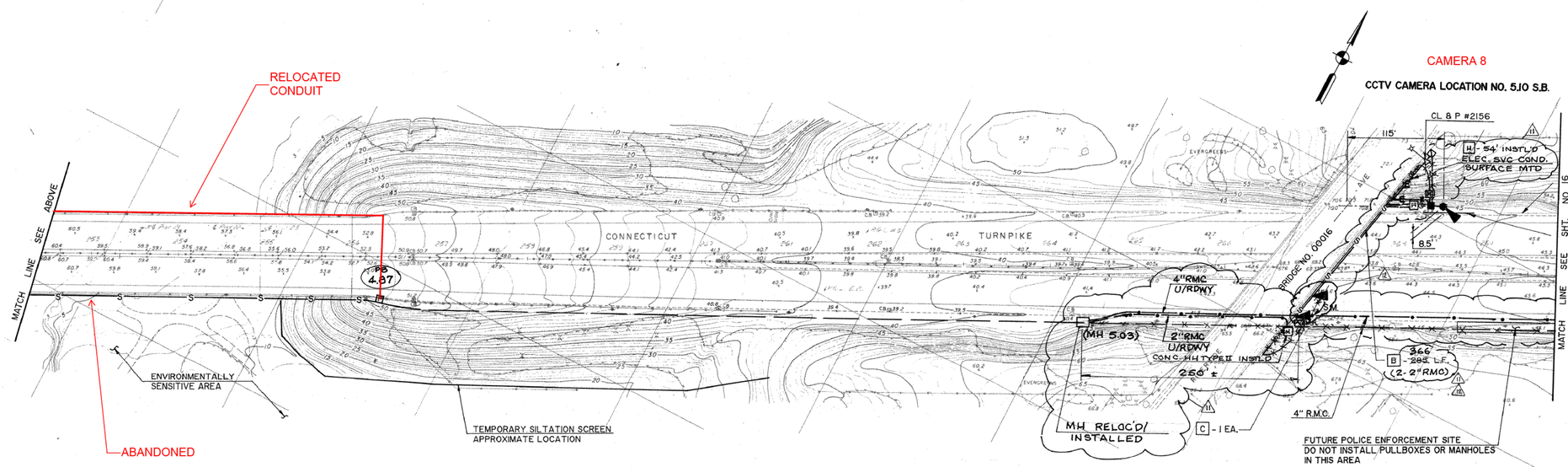
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	GREENWICH	CM-000S(530)	173-247	1993	I-95	15	169
			STPA-000S(532)	173-248				

THIS SHEET CORRECTED

FREEWAY INCIDENT MANAGEMENT SYSTEM ON THE I-95 CORRIDOR

120' 0 60' 120'
SCALE: 1" = 60'





NOTE
SELECTIVE CLEARING AND THINNING REQUIRED TO PROVIDE CAMERA SIGHTLINES.

REVISIONS		
NO.	DATE	DESCRIPTION
1	01/96	PB DESIGNATION ADDED, AS-BUILT REVISIONS
12	04/97	RELOC'D PPB, EXTEND 2" RMC AT BR. 00016

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TRAFFIC ENGINEERING	NAME	DATE
DESIGN BY:		
DRAWN BY:		
CHECKED BY:		

04/1993

10 173-247/248 609-01 15

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: 6/20/2018

DESIGNER/DRAFTER:
CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_IMS_170_3447_Sites.dgn

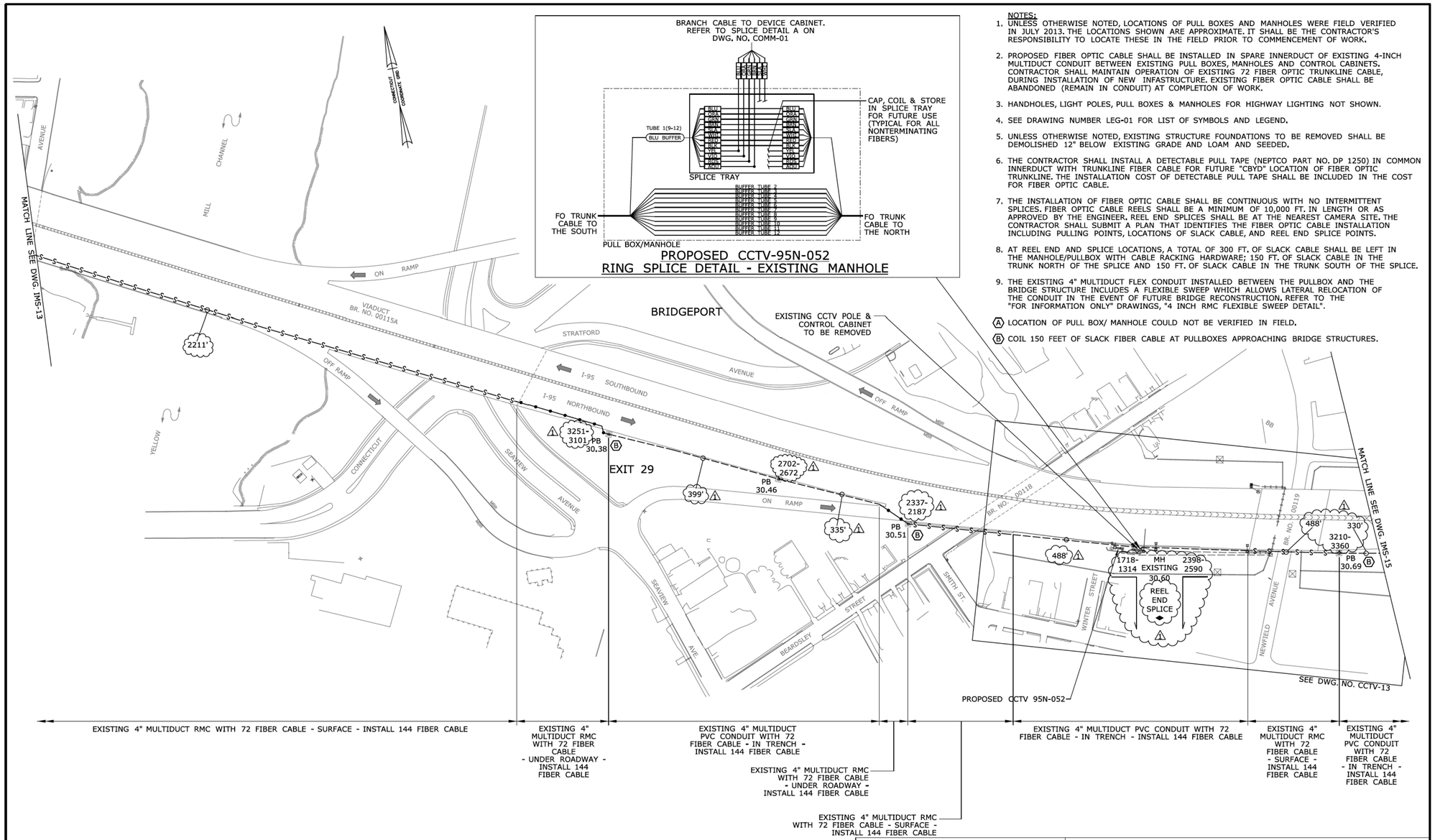
SIGNATURE/BLOCK:
BUREAU OF HIGHWAY OPERATIONS
APPROVED BY:

PROJECT TITLE:
STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORTS ON VARIOUS ROUTES

TOWN:
SITE 1 - GREENWICH

DRAWING TITLE:
FOR INFORMATION ONLY

PROJECT NO. 170-3447
DRAWING NO. IMS-01
SHEET NO. 01.11.02



NOTES:

1. UNLESS OTHERWISE NOTED, LOCATIONS OF PULL BOXES AND MANHOLES WERE FIELD VERIFIED IN JULY 2013. THE LOCATIONS SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE IN THE FIELD PRIOR TO COMMENCEMENT OF WORK.
2. PROPOSED FIBER OPTIC CABLE SHALL BE INSTALLED IN SPARE INNERDUCT OF EXISTING 4-INCH MULTIDUCT CONDUIT BETWEEN EXISTING PULL BOXES, MANHOLES AND CONTROL CABINETS. CONTRACTOR SHALL MAINTAIN OPERATION OF EXISTING 72 FIBER OPTIC TRUNKLINE CABLE, DURING INSTALLATION OF NEW INFASTRUCTURE. EXISTING FIBER OPTIC CABLE SHALL BE ABANDONED (REMAIN IN CONDUIT) AT COMPLETION OF WORK.
3. HANDHOLES, LIGHT POLES, PULL BOXES & MANHOLES FOR HIGHWAY LIGHTING NOT SHOWN.
4. SEE DRAWING NUMBER LEG-01 FOR LIST OF SYMBOLS AND LEGEND.
5. UNLESS OTHERWISE NOTED, EXISTING STRUCTURE FOUNDATIONS TO BE REMOVED SHALL BE DEMOLISHED 12" BELOW EXISTING GRADE AND LOAM AND SEEDED.
6. THE CONTRACTOR SHALL INSTALL A DETECTABLE PULL TAPE (NEPTCO PART NO. DP 1250) IN COMMON INNERDUCT WITH TRUNKLINE FIBER CABLE FOR FUTURE "CBYD" LOCATION OF FIBER OPTIC TRUNKLINE. THE INSTALLATION COST OF DETECTABLE PULL TAPE SHALL BE INCLUDED IN THE COST FOR FIBER OPTIC CABLE.
7. THE INSTALLATION OF FIBER OPTIC CABLE SHALL BE CONTINUOUS WITH NO INTERMITTENT SPLICES. FIBER OPTIC CABLE REELS SHALL BE A MINIMUM OF 10,000 FT. IN LENGTH OR AS APPROVED BY THE ENGINEER. REEL END SPLICES SHALL BE AT THE NEAREST CAMERA SITE. THE CONTRACTOR SHALL SUBMIT A PLAN THAT IDENTIFIES THE FIBER OPTIC CABLE INSTALLATION INCLUDING PULLING POINTS, LOCATIONS OF SLACK CABLE, AND REEL END SPLICE POINTS.
8. AT REEL END AND SPLICE LOCATIONS, A TOTAL OF 300 FT. OF SLACK CABLE SHALL BE LEFT IN THE MANHOLE/PULLBOX WITH CABLE RACKING HARDWARE; 150 FT. OF SLACK CABLE IN THE TRUNK NORTH OF THE SPLICE AND 150 FT. OF SLACK CABLE IN THE TRUNK SOUTH OF THE SPLICE.
9. THE EXISTING 4" MULTIDUCT FLEX CONDUIT INSTALLED BETWEEN THE PULLBOX AND THE BRIDGE STRUCTURE INCLUDES A FLEXIBLE SWEEP WHICH ALLOWS LATERAL RELOCATION OF THE CONDUIT IN THE EVENT OF FUTURE BRIDGE RECONSTRUCTION. REFER TO THE "FOR INFORMATION ONLY" DRAWINGS, "4 INCH RMC FLEXIBLE SWEEP DETAIL".

(A) LOCATION OF PULL BOX/ MANHOLE COULD NOT BE VERIFIED IN FIELD.

(B) COIL 150 FEET OF SLACK FIBER CABLE AT PULLBOXES APPROACHING BRIDGE STRUCTURES.

CONSTRUCTION AS BUILTS | **REVISED BY CONSTRUCTION ORDER REQUEST - 10/25/17**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
1	10/25/17	CONTRACTOR AS BUILTS	03.26.C3

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: 11/8/2017

DESIGNER/DRAFTER: F. KHO
CHECKED BY: T. DALEY
SCALE IN FEET 0 100 200
SCALE 1"=100'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: STATE OF CONNECTICUT PROFESSIONAL ENGINEER LICENSED — Gannett Fleming, Inc. 333 Elm Street, Suite 215 Dedham, MA 02026

Filename: ...\03.26-HW-MSH-0015_0344_IMS-14.dgn

PROJECT TITLE: UPGRADE OF THE INCIDENT MANAGEMENT SYSTEM GREATER BRIDGEPORT AREA

TOWN: BRIDGEPORT

DRAWING TITLE: IMS CONDUIT & FIBER OPTIC PLAN

PROJECT NO. 15-345
DRAWING NO. IMS-14
SHEET NO. 03.26.C3

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/20/2018

DESIGNER/DRAFTER:
CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_IMS_170_3447_Sites.dgn

SIGNATURE/BLOCK: BUREAU OF HIGHWAY OPERATIONS
APPROVED BY:

PROJECT TITLE: STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORTS ON VARIOUS ROUTES

TOWN: SITE 3 - BRIDGEPORT

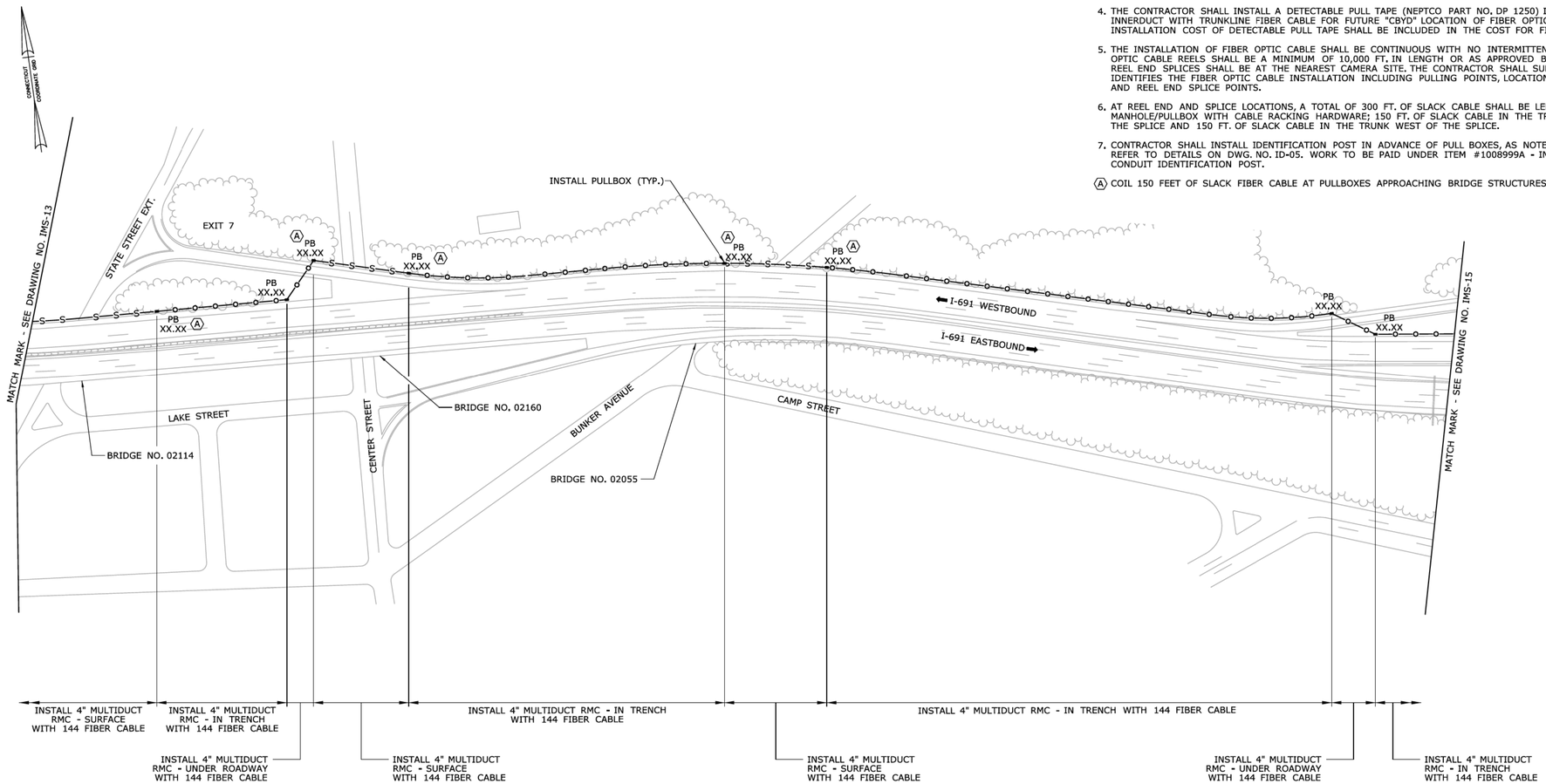
DRAWING TITLE: FOR INFORMATION ONLY

PROJECT NO. 170-3447
DRAWING NO. IMS-02
SHEET NO. 01.11.03

NOTES:

1. HANDHOLES, LIGHT POLES, PULL BOXES & MANHOLES FOR HIGHWAY LIGHTING NOT SHOWN.
2. SEE DRAWING NUMBER LEG-01 FOR LIST OF SYMBOLS AND LEGEND.
3. UNLESS OTHERWISE NOTED, EXISTING STRUCTURE FOUNDATIONS TO BE REMOVED SHALL BE DEMOLISHED 12" BELOW EXISTING GRADE AND LOAM AND SEEDED.
4. THE CONTRACTOR SHALL INSTALL A DETECTABLE PULL TAPE (NEPTCO PART NO. DP 1250) IN COMMON INNERDUCT WITH TRUNKLINE FIBER CABLE FOR FUTURE "CBYD" LOCATION OF FIBER OPTIC TRUNKLINE. THE INSTALLATION COST OF DETECTABLE PULL TAPE SHALL BE INCLUDED IN THE COST FOR FIBER OPTIC CABLE.
5. THE INSTALLATION OF FIBER OPTIC CABLE SHALL BE CONTINUOUS WITH NO INTERMITTENT SPLICES. FIBER OPTIC CABLE REELS SHALL BE A MINIMUM OF 10,000 FT. IN LENGTH OR AS APPROVED BY THE ENGINEER. REEL END SPLICES SHALL BE AT THE NEAREST CAMERA SITE. THE CONTRACTOR SHALL SUBMIT A PLAN THAT IDENTIFIES THE FIBER OPTIC CABLE INSTALLATION INCLUDING PULLING POINTS, LOCATIONS OF SLACK CABLE, AND REEL END SPLICE POINTS.
6. AT REEL END AND SPLICE LOCATIONS, A TOTAL OF 300 FT. OF SLACK CABLE SHALL BE LEFT IN THE MANHOLE/PULLBOX WITH CABLE RACKING HARDWARE; 150 FT. OF SLACK CABLE IN THE TRUNK EAST OF THE SPLICE AND 150 FT. OF SLACK CABLE IN THE TRUNK WEST OF THE SPLICE.
7. CONTRACTOR SHALL INSTALL IDENTIFICATION POST IN ADVANCE OF PULL BOXES, AS NOTED ON PLANS. REFER TO DETAILS ON DWG. NO. ID-05. WORK TO BE PAID UNDER ITEM #1008999A - INTERCONNECT CONDUIT IDENTIFICATION POST.

(A) COIL 150 FEET OF SLACK FIBER CABLE AT PULLBOXES APPROACHING BRIDGE STRUCTURES.



PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/14/2017

DESIGNER/DRAFTER: S. BRUNNER
CHECKED BY: T. DALEY
SCALE IN FEET 0 100 200
SCALE 1"=100'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0171_0413_IMS-14.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG I-91 AND I-691

TOWN: MERIDEN

DRAWING TITLE: IMS CONDUIT AND FIBER OPTIC CABLE PLAN

PROJECT NO. 171-414
DRAWING NO. IMS-14
SHEET NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/20/2018

DESIGNER/DRAFTER:
CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_IMS_170_3447_Sites.dgn

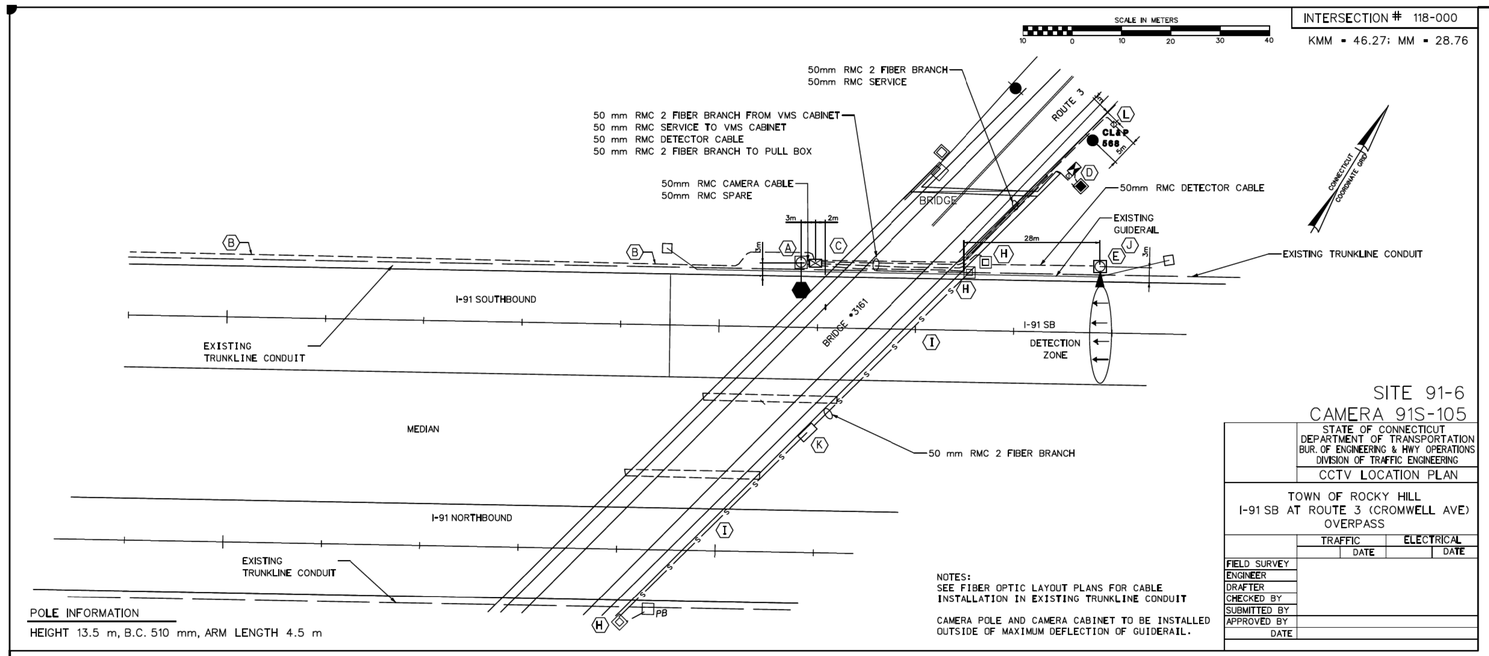
SIGNATURE/ BLOCK: BUREAU OF HIGHWAY OPERATIONS
APPROVED BY:

PROJECT TITLE: STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORTS ON VARIOUS ROUTES

TOWN: SITE 5 - MERIDEN

DRAWING TITLE: FOR INFORMATION ONLY

PROJECT NO. 170-3447
DRAWING NO. IMS-03
SHEET NO. 01.11.04



POLE INFORMATION

HEIGHT 13.5 m, B.C. 510 mm, ARM LENGTH 4.5 m

NOTES:
SEE FIBER OPTIC LAYOUT PLANS FOR CABLE INSTALLATION IN EXISTING TRUNKLINE CONDUIT

CAMERA POLE AND CAMERA CABINET TO BE INSTALLED OUTSIDE OF MAXIMUM DEFLECTION OF GUIDERAIL.

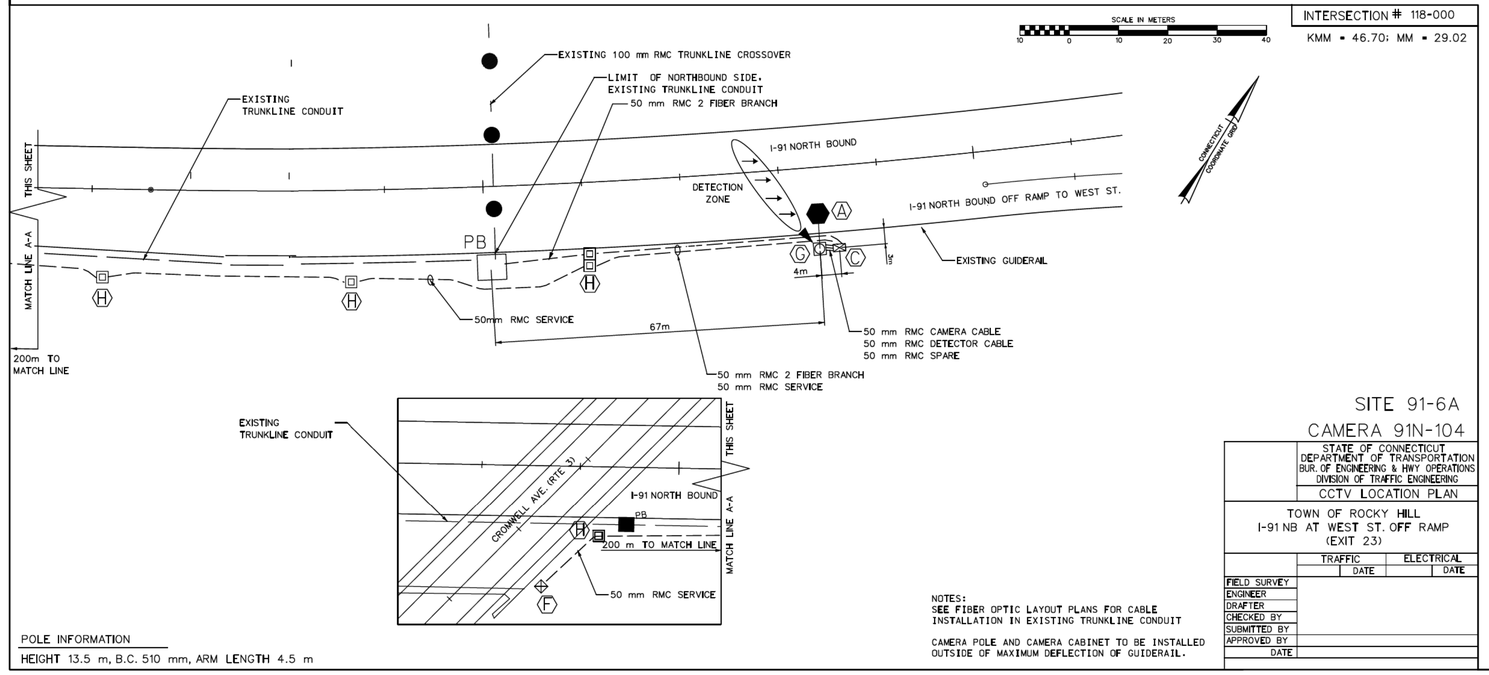
SITE 91-6
CAMERA 91S-105

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

CCTV LOCATION PLAN

TOWN OF ROCKY HILL
I-91 SB AT ROUTE 3 (CROMWELL AVE)
OVERPASS

	TRAFFIC		ELECTRICAL	
		DATE		DATE
FIELD SURVEY				
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				



POLE INFORMATION

HEIGHT 13.5 m, B.C. 510 mm, ARM LENGTH 4.5 m

NOTES:
SEE FIBER OPTIC LAYOUT PLANS FOR CABLE INSTALLATION IN EXISTING TRUNKLINE CONDUIT

CAMERA POLE AND CAMERA CABINET TO BE INSTALLED OUTSIDE OF MAXIMUM DEFLECTION OF GUIDERAIL.

SITE 91-6A
CAMERA 91N-104

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

CCTV LOCATION PLAN

TOWN OF ROCKY HILL
I-91 NB AT WEST ST. OFF RAMP
(EXIT 23)

	TRAFFIC		ELECTRICAL	
		DATE		DATE
FIELD SURVEY				
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

CONSTRUCTION NOTES

(A) INSTALL 13.5m CCTV POLE WITH 4.5m BRACKET AND CCTV DOME UNIT ON TYPE B FOUNDATION.

(B) 50 mm RMC SERVICE CABLE TO BE INSTALLED FOR CAMERA 91-4.

(C) INSTALL CCTV CONTROLLER FOUNDATION. FRONT EDGE OF FOUNDATION TO BE PARALLEL TO HIGHWAY. INSTALL 900mm CONCRETE PAD ADJACENT TO FRONT DOOR OF CABINET. INSTALL CCTV CONTROL CABINET. INSTALL SPARE CONDUIT SWEEPS TO FIELD SIDE OF CONTROLLER FOUNDATION. INSTALL FIBER OPTIC MODEM FOR SITE 91-6.

(D) EXISTING VMS CABINET AND HANDHOLE. INSTALL FIBER OPTIC MODEM FOR FIBER CONNECTION TO CAMERA CABINET. INSTALL SERIVCE CONNECTION

(E) INSTALL TRAFFIC FLOW MONITOR ON DETECTOR POLE 5.5m ABOVE ROADWAY.

(F) SERVICE TO BE PROVIDED FROM SERVICE CABINET INSTALLED FOR CAMERA 91-5.

(G) INSTALL TRAFFIC FLOW MONITOR ON CAMERA POLE 5.5 m ABOVE ROADWAY.

(H) INSTALL TYPE II HANDHOLES WITH A MAXIMUM SPACING OF 50m.

(I) SURFACE MOUNT CONDUIT.

(J) INSTALL 9m DETECTOR POLE ON TYPE A FOUNDATION.

(K) INSTALL 300mm X 300mm CAST IRON JUNCTION BOX.

UTILITY REPRESENTATIVE – BOTH LOCATIONS:

CL&P HARTFORD DISTRICT
410 SHELDON STREET
HARTFORD, CT. 06106
REP: JOHN FLANIGAN 860-280-2450

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

AS-BUILT

CCTV/TFM LOCATION PLAN

91-6-6A.DGN

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO	YEAR	ROUTE NO.	SHEET NO.
1	CONN.	VARIOUS	CM-000R(42)	63-548	1999	I-91	50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/20/2018

DESIGNER/DRAFTER:

CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_IMS_170_3447_Sites.dgn

SIGNATURE/ BLOCK:

BUREAU OF HIGHWAY OPERATIONS

APPROVED BY:

PROJECT TITLE:

STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORTS ON VARIOUS ROUTES

TOWN:

SITE 7 - ROCKY HILL

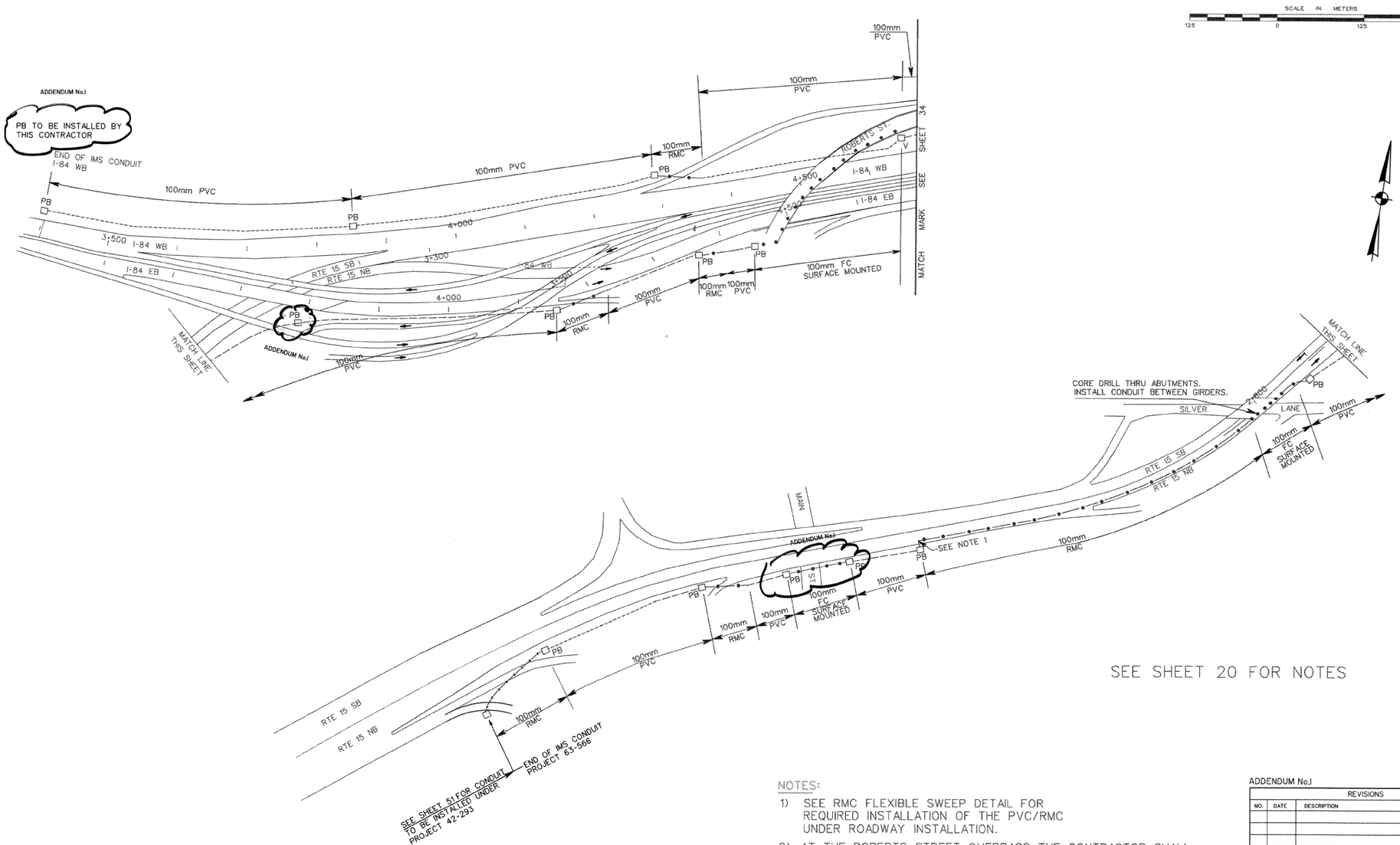
DRAWING TITLE:

FOR INFORMATION ONLY

PROJECT NO. 170-3447

DRAWING NO. IMS-04

SHEET NO. 01.11.05



SEE SHEET 20 FOR NOTES

NOTES:

1) SEE RMC FLEXIBLE SWEEP DETAIL FOR REQUIRED INSTALLATION OF THE PVC/RMC UNDER ROADWAY INSTALLATION.

2) AT THE ROBERTS STREET OVERPASS, THE CONTRACTOR SHALL MOUNT THE CONDUIT TO THE FACE OF THE ABUTMENT(S), INSTALL A CAST IRON JUNCTION BOX, AND MOUNT THE CONDUIT TO THE EXISTING STRINGERS OF THE OVERPASS. SEE TYPICAL OVERPASS STRUCTURE DETAILS ON IMS TYP. 5.

FUSS1.DGN

ADDENDUM No.1

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO	YEAR	ROUTE NO.	SHEET NO.
1	CONN.	VARIOUS	CM-000S(999)	63-566	1999		33-1

TRAFFIC ENGINEERING

	NAME	DATE
DESIGN BY		
DRAWN BY		
CHECKED BY		

63-566/42-293

766-01

THIS SHEET NOT CORRECTED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/20/2018

DESIGNER/DRAFTER:

CHECKED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_OPS_IMS_170_3447_Sites.dgn

SIGNATURE/ BLOCK:
BUREAU OF HIGHWAY OPERATIONS
APPROVED BY:

PROJECT TITLE:
STATEWIDE REPLACEMENT OF OVERHEAD SIGN SUPPORTS ON VARIOUS ROUTES

TOWN:
SITE 9 - EAST HARTFORD

DRAWING TITLE:
FOR INFORMATION ONLY

PROJECT NO. 170-3447
DRAWING NO. IMS-05
SHEET NO. 01.11.06