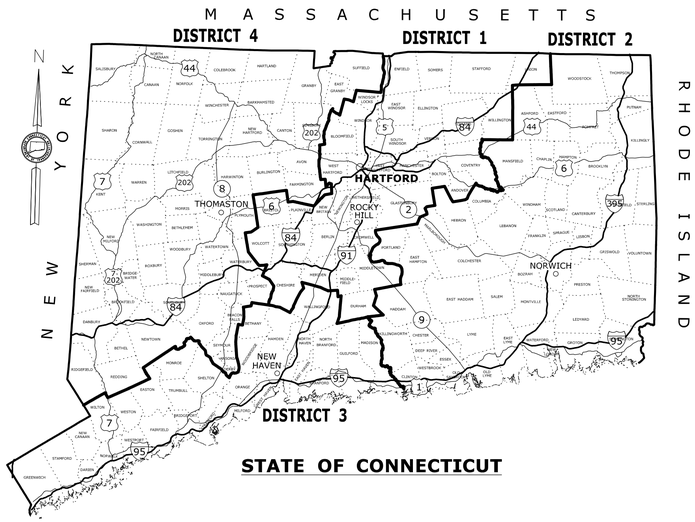
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

REPLACEMENT OF EXPANSION JOINTS IN DISTRICT 1

Towns/City of

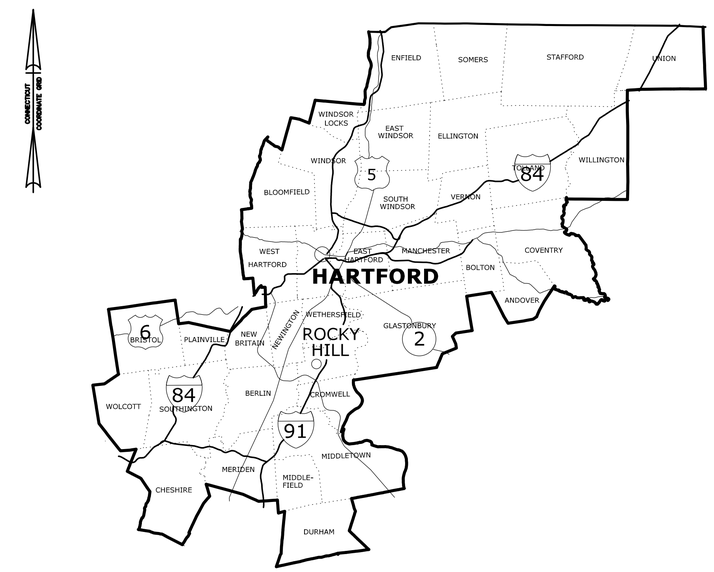
VERNON
MANCHESTER
EAST HARTFORD
WETHERSFIELD
HARTFORD
SOUTHINGTON
ENFIELD



STATE OF CONNECTICUT

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
VARIOUS	STATE	-

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
000R(797)	STATE	0171-0367



LOCATION PLAN

NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO. 000R(797)
2. F.H.W.A. REGION NO. 1
3. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated January 2013; and Special Provisions

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	GENERAL	3
02	REVISIONS	1
03	STRUCTURE	33
	CTDOT TRAFFIC STD	6

*THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

LIST OF DRAWINGS
SUBSET 01 - GENERAL

DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-01
DETAILED ESTIMATE SHEET	G-02
GENERAL NOTES AND DISTRICT LOCATION MAP	G-03

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
Grid Arrow
Limit Of Marsh
Stone Wall
Ledge Outcrop
Inland Wetland Limits
STATE LINE
Power Line
Swamp
Building
Transmission Tower
Chain Link Fence
Rustic Fence
Pipe Fence
Board Fence
Water Edge
Stream
Ditch
TOWN LINE
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall
Highway Line
Street Line
Property Line
Lot Line
Easement Line

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.

DESIGNED BY:
CLOSE, JENSEN AND MILLER, PC

STATE OF CONNECTICUT JOHN W. MILLER NO. 4142 LICENSED PROFESSIONAL ENGINEER

John Miller, P.E.
2013.07.09
12:02:40-04'00'

Plans For
REPLACEMENT OF EXPANSION JOINTS IN DISTRICT 1

VERNON, MANCHESTER, EAST HARTFORD, WETHERSFIELD, HARTFORD, SOUTHINGTON AND ENFIELD

STATE PROJECT NO.
0171-0367

DRAWING NO.
G-01

SHEET NO.
01.01

STRUCTURE

ITEM NUMBER	0406171 P	0406173 P	0406310A P	0520035A P	0520036A P	0520040A P	0601250A P	0601307A P	0601923A P	0707031A P
ITEM	HMA S0.5	HMA S0.25	CLEAN AND RESEAL EXISTING FILLED BRIDGE JOINTS	SILICONE EXPANSION JOINT SYSTEM	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	STRIP SEAL EXPANSION JOINT SYSTEM FOR REHABILITATION PROJECTS	CONSTRUCT CONCRETE HEADERS	LATEX MODIFIED CONCRETE	SAW CUTTING CONCRETE	MEMBRANE WATERPROOFING (SHEET) (TORCH APPLIED)
UNIT	TON	TON	L.F.	L.F.	C.F.	L.F.	C.Y.	C.Y.	L.F.	S.Y.
BRIDGE NO.										
04276	11	5		57	36		10			100
04275	8	3			46					65
05230	28	12		290	30		9			167
05228	26	11			145					225
05444	14	6			80					126
00818	44	19			210		13			381
05443	14	6			80					126
00374	27	11	235		90	102				240
01456	19	8			105		40			167
01469B	68	28		130	330					595
01242			367	184				2	735	
00443	23	10		62	101		1			208
SUBTOTAL	282	119	602	723	1253	102	73	2	735	2400
UNASSIGNED										
TOTAL	282	119	602	723	1253	102	73	2	735	2400

TRAFFIC

ITEM NUMBER	0970007A P	0971001A P	0975002 P	0976002 P	0978002 P	0979003A P	0981100 P	1130000 P	1131002A P	1220013A P
ITEM	TRAFFICPERSON (UNIFORMED FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	MOBILIZATION	BARRICADE WARNING LIGHTS-HIGH INTENSITY	TRAFFIC DRUM	CONSTRUCTION BARRICADE TYPE III	42" TRAFFIC CONE	HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW	REMOTE CONTROL CHANGEABLE MESSAGE SIGN	CONSTRUCTION SIGNS-BRIGHT FLUORESCENT SHEETING
UNIT	HR	L.S.	L.S.	DAY	EA	EA	EA	DAY	DAY	S.F.
SUBTOTAL	65	L.S.	L.S.	1700	1000	8	280	160	150	1150
UNASSIGNED										
TOTAL	65	L.S.	L.S.	1700	1000	8	280	160	150	1150

P = FEDERAL AID PARTICIPATING
NP= FEDERAL AID NON PARTICIPATING
=FOR INTERNAL USE ONLY
NOT A LEGAL DEFINITION

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: 7/9/2013

DESIGNER/DRAFTER: **B.A./M.G.**
CHECKED BY: **J.H.M. II**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_171_367_G_02_DES.dgn

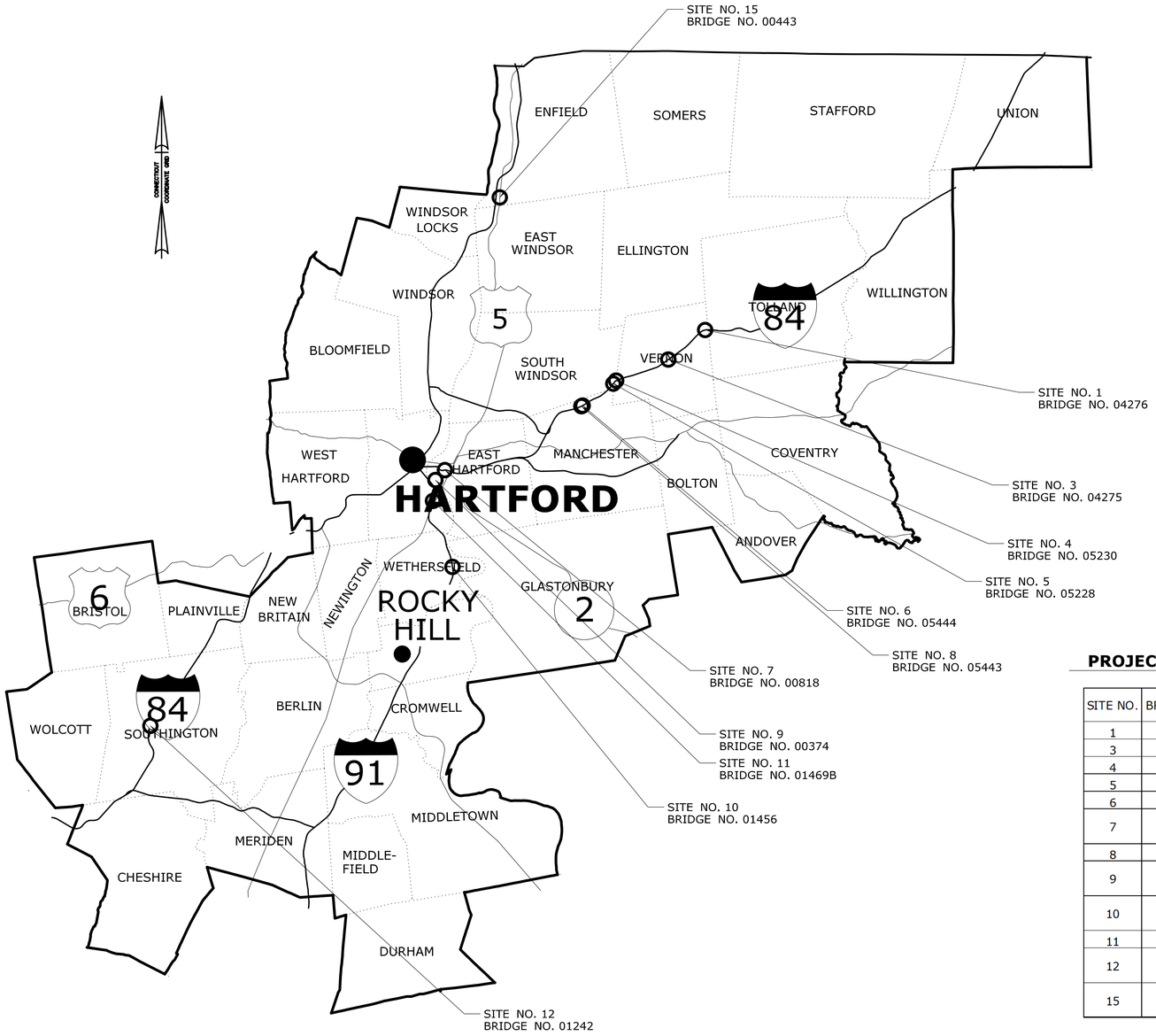
SIGNATURE/ BLOCK:
Close, Jensen and Miller, P.C.
1137 Silas Deane Highway
Wethersfield, CT 06109

PROJECT TITLE: **REPLACEMENT OF EXPANSION JOINTS IN DISTRICT 1**

TOWN: **VARIOUS**

DRAWING TITLE: **DETAILED ESTIMATE SHEET**

PROJECT NO. **171-367**
DRAWING NO. **G-02**
SHEET NO. **01.02**



SITE LOCATIONS MAP DISTRICT 1

PROJECT REFERENCE INFORMATION

SITE NO.	BRIDGE NO.	REFERENCE PROJECT NO.	MAP FILE NO.	DATE
1	04276	146-100	M 469-01	1976
3	04275	146-99	M 469-01	1976
4	05230	76-89	494-01	1978
5	05228	76-89	494-01	1978
6	05444	76-88	501-01	1982
7	00818	42-135	M 271-02	1962
		42-196	245-01	1988
8	05443	76-88	501-01	1982
9	00374	42-105	M 212-01	1957
		42-264	617-05	1993
10	01456	118-68	M 250-01	1960
		118-147	692-01	1997
11	01469B	63-161	M 272-01	1962
12	01242	131-75	M 251-01	1960
		171-157	216-09	1988
15	00443	46-68	209-01	1958
		48-158	414-05	1991

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATION DATED JULY 2012, AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATION, (AASHTO 5TH EDITION, 2010 WITH 2011 INTERIMS) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:
CLASS "F" CONCRETE BASED ON f'c = 4000 psi
REINFORCEMENT (ASTM A615 GRADE 60) fy = 60,000 psi (GALVANIZED)

LIVE LOAD: HL-93

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS. THE FIRST LIFT SHALL BE 1 INCH THICK OF HMA S0.25 AND THE SECOND SHALL BE HMA S0.5 TO MATCH THE EXISTING CONDITIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM ORIGINAL DESIGN DRAWINGS AND SUBSEQUENT REHABILITATION PLANS AND ARE NOT GUARANTEED. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL TAKE COMPLETE FIELD MEASUREMENTS TO VERIFY ALL DIMENSIONS AND JOINT OPENINGS AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS".

CONCRETE NOTES:

JOINT SEAL: THE COST OF FURNISHING AND INSTALLING JOINT SEAL SHALL BE INCLUDED IN THE COST OF THE ITEM "CONSTRUCT CONCRETE HEADERS".

EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEM "CONSTRUCT CONCRETE HEADERS". PREFORMED EXPANSION JOINT FILLER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 153, TYPE I AND TYPE II.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60 AND GALVANIZED AFTER FABRICATION TO THE REQUIREMENTS OF ASTM A767 CLASS 1 INCLUDING SUPPLEMENTAL REQUIREMENTS.

WELDING: WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO THE AASHTO/AWS D1.5M/D1.5:2008 - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 7/2/2013

DESIGNER/DRAFTER: B.A./M.G.
CHECKED BY: J.H.M. II
NOT TO SACLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_171_367_G_03_DISTRICT-1.dgn

SIGNATURE/BLOCK:
Close, Jensen and Miller, P.C.
1137 Silas Deane Highway
Wethersfield, CT 06109

PROJECT TITLE:
REPLACEMENT OF EXPANSION JOINTS IN DISTRICT 1

TOWN: **VARIOUS**

DRAWING TITLE: **GENERAL NOTES AND DISTRICT LOCATION MAP**

PROJECT NO. **171-367**
DRAWING NO. **G-03**
SHEET NO. **01.03**