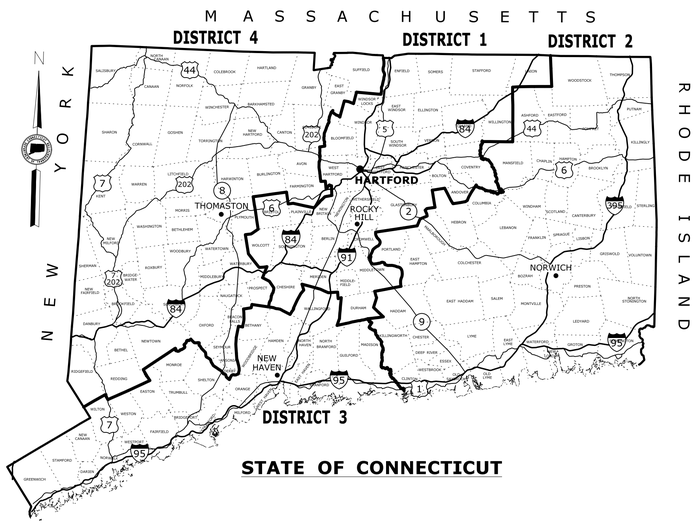
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

Town(s)/City of

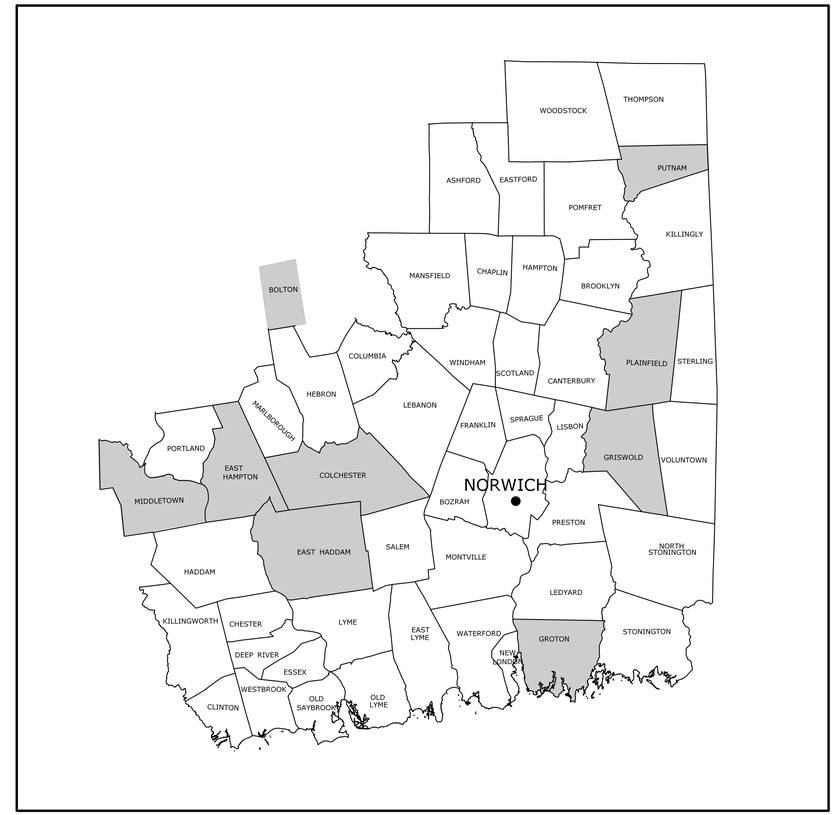
BOLTON, COLCHESTER, EAST HADDAM, EAST HAMPTON, GRISWOLD, GROTON, MIDDLETOWN, PLAINFIELD, PUTNAM



STATE OF CONNECTICUT

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
VARIOUS	STATE	N/A

F.A.P. #	PROJECT #
OOOR(884)	0172-0435
OOOR(900)	0172-0436



LOCATION PLAN

NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO. OOOR(884) & OOOR(900)
2. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 817, dated 2016; Supplemental Specifications, dated JANUARY, 2017; and Special Provisions
3. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM SYSTEM N.A.D. 1927 N.A.D. 1983
4. VERTICAL DATUM BASED ON NGVD OF 1929 NAVD 1988

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL 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 UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	GENERAL	7
02	REVISIONS	1
03	TRAFFIC	26
04	STRUCTURES - SPAN POLES	4
05	STRUCTURES - MAST ARMS	4
06	HIGHWAYS	11
	CTDOT_HIGHWAY_STD	16
	CTDOT_TRAFFIC_STD	21

*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-1
DETAILED ESTIMATE SHEETS	G-2 - G-7

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Grid Arrow
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
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
Property Line
Lot Line
Easement Line
Water Edge
Stream
Ditch
TOWN LINE
Highway Line
Street Line
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall

WATERMARK BLOCK:

OFFICE OF ENGINEERING

SUBMITTED BY:

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.

Tracy L. Fogarty, P.E.
2017.08.22 11:43:32-04'00'

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER - TRACY L. FOGARTY, P.E.

Mark F. Carlino, P.E.
2017.08.22 12:19:26-04'00'

APPROVAL RECOMMENDED BY: MANAGER OF TRAFIC ENGINEERING -

Scott Hill, P.E.
2017.08.22 12:26:37-04'00'

APPROVED BY: TRANSPORTATION ENGINEERING ADMINISTRATOR - SCOTT A. HILL, P.E.

Plans For

INSTALLATIONS & REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

Town(s)/City

BOLTON, COLCHESTER, EAST HADDAM, EAST HAMTON, GRISWOLD, GROTON, MIDDLETOWN, PLAINFIELD, PUTNAM

STATE PROJECT NO.
0172-0435
0172-0436

DRAWING NO. **G-1**

SHEET NO. **01.01**

FEDERAL AID PARTICIPATING

INTERSECTION DESCRIPTION	INT #	TRAFFIC SIGNAL ITEMS LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS (0020903A)	CLEARING AND GRUBBING (0201001)	EARTH EXCAVATION (0202000)	TEST PIT EXCAVATION (0202451A)	REMOVAL OF CONCRETE SIDEWALK (0202513A)	CUT BITUMINOUS CONCRETE PAVEMENT (0202529)	REMOVAL OF BITUMINOUS SIDEWALK (0202530)	TRENCH EXCAVATION - 0 - 4' DEEP (0205001)	ROCK IN TRENCH EXCAVATION - 0 - 4' DEEP (0205002)	TRENCH EXCAVATION - 0 - 10' DEEP (0205003)	BORROW (0207000)	GRANULAR FILL (0213100)	SEDIMENTATION CONTROL SYSTEM (0219001)	PROCESSED AGGREGATE (0305000)	BITUMINOUS CONCRETE PATCHING - PARTIAL DEPTH (0404101A)	BITUMINOUS CONCRETE SURFACE PATCH (0406125A)	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE 1 (0507021)	BEDDING MATERIAL (0651001)	12" R.C. PIPE (0651011)	12" R.C. CULVERT END (0652009)	INTERMEDIATE RIPRAP (0703011)	CRUSHED STONE FOR SLOPE PROTECTION (0728001)	GEOTEXTILE (SEPARATION - HIGH SURVIVABILITY) (0755014)	5" GRANITE STONE CURBING (0813001)	BITUMINOUS CONCRETE LIP CURBING (0815001)	BITUMINOUS CONCRETE PARK CURBING (0815200)	METAL BEAM RAIL (TYPE R-B SYSTEM 5) (0910041)	METAL BEAM RAIL (TYPE R-B SYSTEM 6) (0910042)	METAL BEAM RAIL (TYPE R-B 350) (0910170)	R-B- END ANCHORAGE TYPE I (0911923)	R-B END ANCHORAGE TYPE II (0911924)	REMOVE METAL BEAM RAIL (0912503)	RESET METAL BEAM RAIL (TYPE R B 350) (0912605)
		L.S.	L.S.	C.Y.	C.Y.	S.Y.	L.F.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	L.F.	TON	S.Y.	S.Y.	EA.	C.Y.	L.F.	EA.	C.Y.	TON	S.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	L.F.	L.F.
PROJECT NO. 0172-0435																																			
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209	L.S.				11				1							5																		
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205	L.S.				8											4									8								
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201	L.S.								5							10																		
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224	L.S.	L.S.	93			200	2	1	4	39	35	13	289	25	11	1	1	2	22	1	3	31	7		6	226	13	25	40	1	1	147	150
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248	L.S.								5							4																		
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249	L.S.								4							3																		
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201	L.S.								3							6																		
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216	L.S.				13		2		1							11								22										
UNASSIGNED																																			
TOTAL - PROJECT 0172-0435		L.S.	L.S.	93	0	32	200	4	1	23	39	35	13	289	25	11	43	1	2	22	1	3	31	7	22	14	226	13	25	40	1	1	147	150
PROJECT NO. 0172-0436																																			
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201	L.S.			4					4							2																		
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201	L.S.								1																									
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201	L.S.								1																									
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203	L.S.								4							4																		
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210	L.S.						9		5							4									8									
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211	L.S.						9		5							18																		
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236	L.S.			6					5																									
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256	L.S.				6				5							2																		
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208	L.S.				13				2							4									8									
UNASSIGNED																																			
TOTAL PROJECT NO. 0172-0436		L.S.	0	0	10	19	0	18	0	32	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		L.S.	L.S.	93	10	51	200	22	1	55	39	35	13	289	25	11	77	1	2	22	1	3	31	7	22	30	226	13	25	40	1	1	147	150

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																																			
UNASSIGNED																																			
TOTAL - PROJECT 0172-0435																																			
UNASSIGNED																																			
TOTAL - PROJECT 0172-0436																																			
GRAND TOTAL																																			

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: 8/1/2017

DESIGNER/DRAFTER: M.CLOUTIER
CHECKED BY: R.POLINENI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_ESTIMATE_172_435_436.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

TOWN: VARIOUS

DRAWING TITLE: DETAIL ESTIMATE SHEET

PROJECT NO. 0172-0435 0172-0436
DRAWING NO. G-2
SHEET NO. 01.02

FEDERAL AID PARTICIPATING

ITEM NO.	0913000	0913011	0921001	0921005	0921036	0921039	0922001	0939001	0944000	0950005	0950013	0950019	0952001A	0969062A	0970007	0971001A	0975004	0977001	0980001	1001001	1002015	1002101	1002201A	1002202A	1002203	1002208	1003206	1008015	1008115	1008117	1008215	1008908A	1010001
INTERSECTION DESCRIPTION / INT #	TRAFFIC SIGNAL ITEMS	REMOVE CHAIN LINK FENCE	5' CHAIN LINK FENCE	CONCRETE SIDEWALK	CONCRETE SIDEWALK RAMP	RETROFIT DETECTABLE WARNING STRIP	DETECTABLE WARNING STRIP	BITUMINOUS CONCRETE SIDEWALK	SWEEPING FOR DUST CONTROL	FURNISHING AND PLACING TOPSOIL	TURF ESTABLISHMENT	EROSION CONTROL MATTING	TURF ESTABLISHMENT - LAWN	SELECTIVE CLEARING & THINNING	CONSTRUCTION FIELD OFFICE (MEDIUM)	TRAFFIC PERSON (UNIFORMED FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	MOBILIZATION AND PROJECT CLOSEOUT	TRAFFIC CONE	CONSTRUCTION STAKING	TRENCHING AND BACKFILLING	ROCK IN FOUNDATION EXCAVATION	LIGHT STANDARD FOUNDATION - TYPE 1	TRAFFIC CONTROL FOUNDATION - SPAN POLE	TRAFFIC CONTROL FOUNDATION - MAST ARM	TRAFFIC CONTROL FOUNDATION - PEDESTAL TYPE 1	TRAFFIC CONTROL FOUNDATION - CONTROLLER TYPE IV	LIGHT STANDARD (15' BRACKET, 30' MOUNTING HT.) ALUMINUM	2" RIGID METAL CONDUIT - SURFACE	2" RIGID METAL CONDUIT - IN TRENCH	3" RIGID METAL CONDUIT - IN TRENCH	2" RIGID METAL CONDUIT - UNDER ROADWAY	CLEAN EXISTING CONDUIT	CONCRETE HANDHOLE
		L.F.	L.F.	S.F.	S.F.	EA.	EA.	S.Y.	HR	S.Y.	S.Y.	S.Y.	S.Y.	L.S.	MO.	HR.	L.S.	L.S.	EA.	L.S.	L.F.	V.F.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.
PROJECT NO. 0172-0435																																	
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209				453		6									40					25					5				25			166	
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205			20	562		4			8		8	8								20					1				20			250	
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201			65	492		7			9		9	9								220	18	1	4		2	1	1	30	270	30			
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224	252	251	991	255		3	56	3	479	477	258	3	L.S.							475	10	2	2		2	1	2	30	540	40	190		2
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248			40	272		4														300	16			4	1	1		30	150	30	280		5
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249			95	318		4														300	16			4	1	1		30	210		300		5
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201			641	410		6							L.S.							190	10		2		5	1		60	190	20	100		2
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216			50	827		6	10		13		13	13								90	1				3				75			300	
UNASSIGNED															18		L.S.	L.S.	120	L.S.														
TOTAL - PROJECT 0172-0435		252	251	1,902	3,589	0	40	66	3	509	477	287	32	L.S.	18	40	L.S.	L.S.	120	L.S.	1,620	71	3	8	8	20	5	3	180	1,480	120	870	716	14
PROJECT NO. 0172-0436																																	
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201				95		2														290	12	1	4		1	1	1	30	225	30	80		
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201															40					15	6		2		1			30	40		60		
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201					2										40					10					1			60	20				
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203			30	132		2														85	12		3		4	1		60	85	25			
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210			15	169		6			9		9	9	L.S.							540	4	2	1		2	1	2	30	275		415	140	5
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211			265	211		3														360	8		2		2	1		70	250	40	140		4
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236			160	322		5														520	16			4	1	1		60	260	50	500	230	6
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256				107		2			6		6	6	L.S.							700	10	2	1		2	1	2	60	540	15	520		4
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208			15	208		3			13		13	13	L.S.							200	12		3		3	1		30	140	20	150		2
UNASSIGNED															0		L.S.	L.S.	60	L.S.														
TOTAL PROJECT NO. 0172-0436		0	0	485	1,244	2	23	0	0	28	0	28	28	L.S.	0	80	L.S.	L.S.	60	L.S.	2,720	80	5	16	4	17	7	5	430	1,835	180	1,865	370	21
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		252	251	2,387	4,833	2	63	66	3	536	477	315	60	L.S.	18	120	L.S.	L.S.	180	L.S.	4,340	151	8	24	12	37	12	8	610	3,315	300	2,735	1,086	35

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																																	
UNASSIGNED																																	
TOTAL - PROJECT 0172-0435																																	
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Plotted Date: 8/1/2017

DESIGNER/DRAFTER: M.CLOUTIER
CHECKED BY: R.POLINENI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_ESTIMATE_172_435_436.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

TOWN: VARIOUS

DRAWING TITLE: DETAIL ESTIMATE SHEET

PROJECT NO. 0172-0435 0172-0436
DRAWING NO. G-3
SHEET NO. 01.03

FEDERAL AID PARTICIPATING

ITEM NO.		1010021	1010052	1010060A	1102002	1102008	1102014	1103021A	1103022A	1103023A	1103024A	1103025A	1104023A	1104026A	1104028A	1104031A	1104033A	1104037A	1104090A	1105001A	1105003A	1105101A	1105103A	1105203A	1105303A	1105503A	1106001A	1106002A	1106003A	1106004A	1107007A	1107011A	1108115A	1108163A
	TRAFFIC SIGNAL ITEMS	CONCRETE HANDHOLE - TYPE II	CAST IRON HANDHOLE COVER	CLEAN EXISTING CONCRETE HANDHOLE	8' ALUMINUM PEDESTAL	4'-4" ALUMINUM PEDESTAL	20' ALUMINUM PEDESTAL	28' STEEL SPAN POLE	30' STEEL SPAN POLE	32' STEEL SPAN POLE	34' STEEL SPAN POLE	26' STEEL SPAN POLE	20' STEEL MAST ARM ASSEMBLY	25' STEEL MAST ARM ASSEMBLY	30' STEEL MAST ARM ASSEMBLY	35' STEEL MAST ARM ASSEMBLY	40' STEEL MAST ARM ASSEMBLY	45' STEEL MAST ARM ASSEMBLY	STEEL COMBINATION MAST ARM ASSEMBLY	1 WAY, 1 SECTION SPAN TRAFFIC SIGNAL	1 WAY, 3 SECTION SPAN TRAFFIC SIGNAL	1 WAY, 1 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY, 3 SECTION POLE MOUNTED TRAFFIC SIGNAL	1 WAY, 3 SECTION PEDESTAL MOUNTED TRAFFIC SIGNAL	FLASHER CABINET	1 WAY PEDESTRIAN SIGNAL POLE MOUNTED	2 WAY PEDESTRIAN SIGNAL POLE MOUNTED	1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	2 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	PEDESTRIAN PUSHBUTTON & SIGN (PIEZO)	ACCESSIBLE PEDESTRIAN SIGNAL & DETECTOR (TYPE A)	FULL ACTUATED CONTROLLER - 8 PHASE	MODIFY EXISTING CONTROLLER
INTERSECTION DESCRIPTION	INT #	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
PROJECT NO. 0172-0435																																		
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209			4	5																								4	1		6		1
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205			3	1																							2		2		8		1
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201			1	2					2	2										12			1	1						2			
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224	2			2				2											4	8				2						2		1	
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248	2			1								1		2		1						9				1		1			2	1	
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249	2			1									1	1	2							8				1		1			2	1	
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201		1		3		2		2											3	10						2		2	1		6	1	
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216			4	3																						1		3	2		8		1
UNASSIGNED																																		
TOTAL - PROJECT 0172-0435		6	1	12	18	0	2	0	4	2	2	0	1	1	3	2	1	0	0	7	30	0	17	1	3	0	5	2	11	6	4	32	4	3
PROJECT NO. 0172-0436																																		
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201				1					4										2	8			1	1	1					2		1	
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201					1				1		1								4						1								
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201					1														6						1								
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203					2	2		3											2	10										2			
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210	2			2							1								4	8				2						2			
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211				2				2											2	8				2						2			
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236	2			1										1		1	1	1			2	10				1		1			2		
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256	2			2				1											2	6				2						2			
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208				3			3													8								2	1		4	1	
UNASSIGNED																																		
TOTAL PROJECT NO. 0172-0436		6	0	0	11	4	2	3	6	5	0	2	0	0	1	0	1	1	1	22	48	2	10	1	7	3	1	0	3	1	10	6	2	0
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		12	1	12	29	4	4	3	10	7	2	2	1	1	4	2	2	1	1	29	78	2	27	2	10	3	6	2	14	7	14	38	6	3

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																																		
UNASSIGNED																																3		
TOTAL - PROJECT 0172-0435																																3		
UNASSIGNED																																1		
TOTAL - PROJECT 0172-0436																																1		
GRAND TOTAL																																4		

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 8/1/2017

DESIGNER/DRAFTER: M.CLOUTIER

CHECKED BY: R.POLINENI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_ESTIMATE_172_435_436.dgn

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OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

TOWN: VARIOUS

DRAWING TITLE: DETAIL ESTIMATE SHEET

PROJECT NO. 0172-0435 0172-0436

DRAWING NO. G-4

SHEET NO. 01.04

FEDERAL AID PARTICIPATING

INTERSECTION DESCRIPTION	INT #	TRAFFIC SIGNAL ITEMS INSTALL STATE FURNISHED TRAFFIC CONTROLLER & CABINET (1108207A)	PHASE SELECTOR (1108724A)	TRAINING (1108808A)	TEMPORARY DETECTION (SITE #1) (1111201A)	TEMPORARY DETECTION (SITE #2) (1111202A)	TEMPORARY DETECTION (SITE #3) (1111203A)	TEMPORARY DETECTION (SITE #4) (1111204A)	TEMPORARY DETECTION (SITE #5) (1111205A)	TEMPORARY DETECTION (SITE #6) (1111206A)	TEMPORARY DETECTION (SITE #7) (1111207A)	TEMPORARY DETECTION (SITE #8) (1111208A)	TEMPORARY DETECTION (SITE #9) (1111209A)	TEMPORARY DETECTION (SITE #10) (1111210A)	TEMPORARY DETECTION (SITE #11) (1111211A)	TEMPORARY DETECTION (SITE #12) (1111212A)	TEMPORARY DETECTION (SITE #13) (1111213A)	TEMPORARY DETECTION (SITE #14) (1111214A)	TEMPORARY DETECTION (SITE #15) (1111215A)	WIRELESS VEHICLE DETECTION - FLEXIBLE PANEL TRANSCEIVER (1111481A)	WIRELESS VEHICLE DETECTION - RECEIVER (1111483A)	WIRELESS VEHICLE DETECTION - INTERSECTION SENSOR (1111485A)	WIRELESS VEHICLE DETECTION - MASTER CONTACT CLOSURE CARD (1111486A)	WIRELESS VEHICLE DETECTION- EXPANSION CONTACT CLOSURE CARD (1111487A)	WIRELESS VEHICLE DETECTION - MCCC - ETHERNET ACCESS BOX (1111494A)	EXTENSION BRACKET (1111600A)	VIDEO DETECTION PROCESSOR (1112259A)	VEHICLE DETECTION MONITOR (1112284A)	THERMAL VIDEO DETECTOR ASSEMBLY (1112285A)	360-DEGREE CAMERA ASSEMBLY (1112286A)	360-DEGREE VIDEO PROCESSOR (1112287A)	IP VIDEO DETECTION CAMERA ASSEMBLY (1112288A)	360 DEGREE CLOSED LOOP SYSTEM DETECTION VIDEO DETECTION PROCESSOR (1112289A)	DETECTOR (TYPE A) (1112410A)
		EA.	EA.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
PROJECT NO. 0172-0435																																		
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209				L.S.																													
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205					L.S.																												
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201	1					L.S.																			2		1		1		2	1	
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224		2					L.S.																		1		1		1	1	2		3
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248								L.S.																			1		1	1			
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249									L.S.																		1		1	1			
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201										L.S.									2	2	12	1	2	1									
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216											L.S.																						
UNASSIGNED				L.S.																														
TOTAL - PROJECT 0172-0435		1	2	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	0	0	0	0	0	0	0	2	2	12	1	2	1	3	0	4	0	4	3	4	1	3
PROJECT NO. 0172-0436																																		
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201		1										L.S.													2		1		1	1	2		1
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201																																	
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201																																	
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203	1												L.S.						2	2	28	1	2	1									
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210	1													L.S.											1		1		1		2	1	
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211	1														L.S.										2		1		1		1	1	
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236	1															L.S.									2		1		1		2	1	
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256	1																L.S.										1		1		2	1	
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208		2																L.S.							3	2		4					3
UNASSIGNED																																		
TOTAL PROJECT NO. 0172-0436		5	3	0	0	0	0	0	0	0	0	0	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	2	2	28	1	2	1	10	2	5	4	5	1	9	4	4
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		6	5	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	4	4	40	2	4	2	13	2	9	4	9	4	13	5	7

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																																		
UNASSIGNED																				1	1	1	1	1	1					1	1	1		
TOTAL - PROJECT 0172-0435																				1	1	1	1	1	1					1	1	1		
UNASSIGNED																				1	1	3	1	1	1		1		1	1	1	1		
TOTAL - PROJECT 0172-0436																				1	1	3	1	1	1		1		1	1	1	1		
GRAND TOTAL																				2	2	4	2	2	2		1		1	2	2	2		

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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PROJECT TITLE:
INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

TOWN: VARIOUS

DRAWING TITLE: DETAIL ESTIMATE SHEET

PROJECT NO. 0172-0435 0172-0436
DRAWING NO. G-5
SHEET NO. 01.05

FEDERAL AID PARTICIPATING

	ITEM NO.	1112470A	1113004	1113101	1113102	1113103	1113104	1113109	1113125	1113398A	1113399	1113431A	1113550A	1113725A	1113901A	1114102A	1114201A	1117101A	1118012A	1118053A	1118054A	1118055A	1118056A	1118057A	1118059A	1118060A	1118071A	1118072A	1118073A	1118074A	1118075A	1118076A	1118077A	1118303A
	TRAFFIC SIGNAL ITEMS	PRE-EMPTION SYSTEM CHASSIS	2 CONDUCTOR NO. 8 AWG TYPE SE STYLE THW	3 CONDUCTOR NO. 14 CABLE	5 CONDUCTOR NO. 14 CABLE	7 CONDUCTOR NO. 14 CABLE	9 CONDUCTOR NO. 14 CABLE	21 CONDUCTOR NO. 14 CABLE	25 CONDUCTOR NO. 14 CABLE	CABLE CLOSURE (TYPE A)	CABLE CLOSURE	#16 AWG, 6 TWISTED PAIR, COMMUNICATION CABLE	DETECTOR CABLE (OPTICAL)	23 AWG 4 TWISTED PAIR CATEGORY 6 CABLE	CAMERA CABLE	SPAN WIRE	AUXILLIARY EQUIPMENT CABINET	ALTERNATE FLASHING SIGNALS FOR WARNING SIGNS	REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT	TEMPORARY SIGNALIZATION (SITE #3)	TEMPORARY SIGNALIZATION (SITE #4)	TEMPORARY SIGNALIZATION (SITE #5)	TEMPORARY SIGNALIZATION (SITE #6)	TEMPORARY SIGNALIZATION (SITE #7)	TEMPORARY SIGNALIZATION (SITE #9)	TEMPORARY SIGNALIZATION (SITE #10)	TEMPORARY SIGNALIZATION (SITE #11)	TEMPORARY SIGNALIZATION (SITE #12)	TEMPORARY SIGNALIZATION (SITE #13)	TEMPORARY SIGNALIZATION (SITE #14)	TEMPORARY SIGNALIZATION (SITE #15)	TEMPORARY SIGNALIZATION (SITE #16)	TEMPORARY SIGNALIZATION (SITE #17)	RELOCATE PRE-EMPTION SYSTEM (SITE #3)
INTERSECTION DESCRIPTION	INT #	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.
PROJECT NO. 0172-0435																																		
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209					840													L.S.															
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205					1,240													L.S.															
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201		60		2,300	580		180			2		400	1,110		580	1	2	L.S.	L.S.														L.S.
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224	1	105		700	450	110	85			1		720	500		150	1		L.S.		L.S.													
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248		70		1,250	250							170	150					L.S.			L.S.												
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249		70		1,100	280							230	170					L.S.				L.S.											
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201		70		300	1,180	430	150			2			100		330			L.S.					L.S.										
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216					1,180													L.S.															
UNASSIGNED																																		
TOTAL - PROJECT 0172-0435		1	375	0	5,650	6,000	540	415	0	0	5	0	1,520	2,030	0	1,060	2	2	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	0	0	0	0	0	0	0	0	0	L.S.
PROJECT NO. 0172-0436																																		
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201	1	160		880	525	20		160		2		110	700		390	1	1	L.S						L.S.									
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201		110		240											130			L.S													L.S.		
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201		40	350	95											90			L.S														L.S.	
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203		125		770	240	110		170		2		350	300		440			L.S							L.S.								
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210		220		270	120	100	100		1	1	750	220	300		100			L.S								L.S.							
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211		110		400	440	120	150		1	2	300	330	200		290			L.S									L.S.						
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236		70		1,740	230	270			1		560	420	510					L.S										L.S.					
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256		130		720	400	100	100		1	1	270	380	970		200			L.S											L.S.				
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208	1	60		500	540		130			2		420		540	320	1		L.S												L.S.			
UNASSIGNED																																		
TOTAL PROJECT NO. 0172-0436		2	1,025	350	5,615	2,495	720	480	330	4	10	1,880	2,230	2,980	540	1,960	2	1	L.S.	0	0	0	0	0	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	0
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		3	1,400	350	11,265	8,495	1,260	895	330	4	15	1,880	3,750	5,010	540	3,020	4	3	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																																		
UNASSIGNED																																		
TOTAL - PROJECT 0172-0435																																		
UNASSIGNED																																		
TOTAL - PROJECT 0172-0436																																		
GRAND TOTAL																																		

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PROJECT TITLE: INSTALLATIONS AND REVISIONS OF TRAFFIC CONTROL SIGNALS IN DISTRICTS 1 & 2

TOWN: VARIOUS

DRAWING TITLE: DETAIL ESTIMATE SHEET

PROJECT NO. 0172-0435 0172-0436

DRAWING NO. G-6

SHEET NO. 01.06

FEDERAL AID PARTICIPATING

INTERSECTION DESCRIPTION	INT #	TRAFFIC SIGNAL ITEMS RELOCATE PRE-EMPTION SYSTEM (SITE #5)	RELOCATE PRE-EMPTION SYSTEM (SITE #6)	RELOCATE PRE-EMPTION SYSTEM (SITE #10)	RELOCATE PRE-EMPTION SYSTEM (SITE #11)	RELOCATE PRE-EMPTION SYSTEM (SITE #12)	RELOCATE PRE-EMPTION SYSTEM (SITE #13)	RELOCATE PRE-EMPTION SYSTEM (SITE #14)	REMOVAL OF EXISTING SIGNING	REMOVAL AND RELOCATION OF EXISTING SIGNS	SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	4" WHITE - EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW - EPOXY RESIN PAVEMENT MARKINGS	EPOXY RESIN PAVEMENT MARKINGS - SYMBOLS & LEGEND	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	REMOVAL OF PAVEMENT MARKINGS	CONSTRUCTION SIGNS
	ITEM NO.	1118305A	1118306A	1118310A	1118311A	1118312A	1118313A	1118314A	1206013	1206023A	1208932A	1210101	1210102	1210105	1210106	1211001	1220027
		L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	S.F.	L.F.	L.F.	S.F.	S.F.	S.F.	S.F.
PROJECT NO. 0172-0435																	
COLCHESTER-ROUTE 85 AT HALLS HILL ROAD & DOCTOR FOOTE ROAD	INT # 028-209													511	75	511	
EAST HAMPTON-ROUTE 66 AT NORTH MAIN STREET & MAIN STREET	INT # 041-205										8			864		1,020	
GROTON- ROUTE 1 AT ROUTE 12 AND KINGS HIGHWAY	INT # 058-201								L.S.		94	2,070	2,170	123	138	746	
GROTON- ROUTE 184 AT S.R. 614 (COW HILL RD.) AND PUMPKIN HILL RD.	INT # 058-224										13	1,945	2,135		85	1,160	
MIDDLETOWN- SILVER STREET AT TYNAN DRIVE AND HARVEY DRIVE	INT # 082-248	L.S.							L.S.		7	470	670	109	54	180	
MIDDLETOWN- SILVER STREET AT HOLMES DRIVE	INT # 082-249		L.S.						L.S.			748	898	112	56	192	
PUTNAM- ROUTE 12 AT SOUTH MAIN STREET AND SCHOOL STREET	INT # 115-201								L.S.		30	1,500	1,158	550	50	767	
PUTNAM- ROUTE 44 AT KENNEDY DRIVE	INT # 115-216												44	825		892	
UNASSIGNED																	360
TOTAL - PROJECT 0172-0435		L.S.	L.S.	0	0	0	0	0	L.S.	0	150	6,733	7,075	3,094	458	5,468	360
PROJECT NO. 0172-0436																	
BOLTON- ROUTE 6 AT ROUTE 85 AND S.R. 533 (CIDER MILL ROAD)	INT # 012-201								L.S.		16		200		108		
EAST HADDAM- ROUTE 82 AT BAKER LANE	INT # 040-201								L.S.		18		200		36		
GRISWOLD- ROUTE 12 AND ROUTE 138 AT K OF C DRIVE	INT # 057-201								L.S.		11	568	742		19		
GROTON- ROUTE 12 AT PLEASANT VALLEY RD. SOUTH & GROTON SQUARE DR.	INT # 058-203			L.S.					L.S.		72	1,476	110	167	141	825	
GROTON- ROUTE 1 (POQUONOCK ROAD) AT BUDDINGTON ROAD	INT # 058-210				L.S.				L.S.		27	1,580	1,340	209	115	976	
GROTON- ROUTE 1 AT S.R. 649 (SOUTH ROAD)	INT # 058-211					L.S.			L.S.	L.S	8	1,816	1,798	85	74	662	
GROTON- ROUTE 1 (LONG HILL ROAD) AT DROZDYK DRIVE	INT # 058-236						L.S.		L.S.		55	2,396		361	121	604	
GROTON- ROUTE 12 AT OHIO AVENUE	INT # 058-256							L.S.	L.S.		37	2,272	3,382	108	83	1,122	
PLAINFIELD- ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD	INT # 108-208								L.S.			1,764		382		677	
UNASSIGNED																	320
TOTAL PROJECT NO. 0172-0436		0	0	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S	242	11,872	7,772	1,312	697	4,866	320
GRAND TOTALS - PROJECTS 0172-0435 & 0172-0436		L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	392	18,605	14,847	4,406	1,155	10,334	680

FEDERAL AID NON-PARTICIPATING

FEDERAL AID NON PARTICIPATING																	
UNASSIGNED																	
TOTAL - PROJECT 0172-0435																	
UNASSIGNED																	
TOTAL - PROJECT 0172-0436																	
GRAND TOTAL																	

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PROJECT NO. 0172-0435 0172-0436

DRAWING NO. G-7

SHEET NO. 01.07