CONNECTICUT DEPARTMENT OF TRANSPORTATION

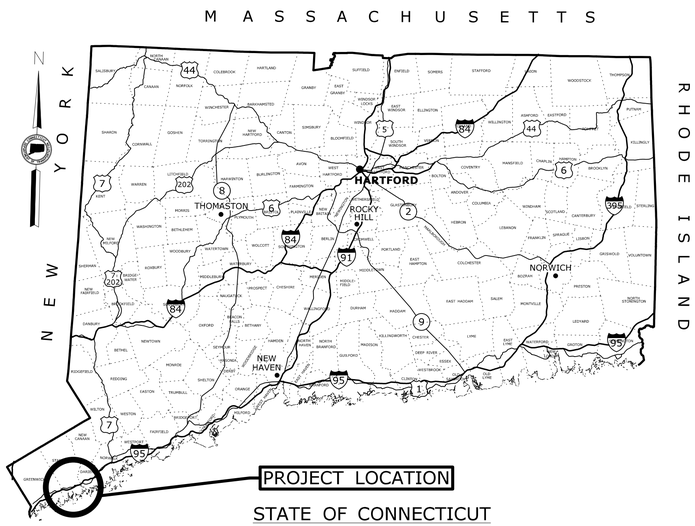
Plans For

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

Town of

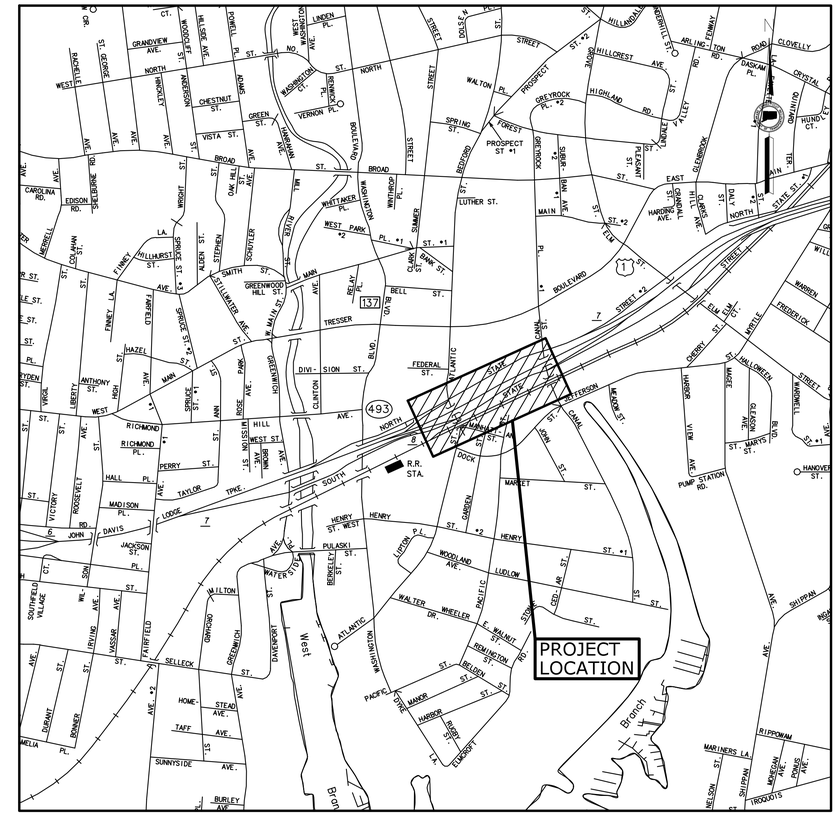
STAMFORD

VOLUME 1



ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
ATLANTIC STREET	STATE	474 FEET
SOUTH STATE STREET	STATE	1600 FEET
MANHATTAN STREET	CITY	165 FEET

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
####(###)	STATE	135-301



LOCATION PLAN
NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO.
2. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated July 2014; and Special Provisions
3. BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983
4. VERTICAL DATUM BASED ON NAVD 88

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.

FINAL DESIGN FOR REVIEW

LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	SUBSET SHEET COUNT
1	GENERAL	6
2	LIST OF DRAWING REVISIONS	2
3	HIGHWAYS	79
4	TRAFFIC	32
5	METRO-NORTH RR OVER ATLANTIC ST.	107
6	RETAINING WALL 105	11
7	RETAINING WALL 106	12
8	RETAINING WALL 107	10
9	BORING LOGS	52
10	RAILROAD	19
11	FOR INFORMATION ONLY PLANS	1
12	CTDOT STANDARD SHEETS	1

LIST OF DRAWINGS
01 - GENERAL

DRAWING TITLE	DRAWING NO.
TITLE SHEET	TSH-01
DETAILED ESTIMATE SHEETS	EST-01 THRU EST-05

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Concrete 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.

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER -

APPROVAL RECOMMENDED BY: MANAGER OF -

APPROVED BY: TRANSPORTATION ENGINEERING ADMINISTRATOR - JAMES H. NORMAN P.E.

Plans For
REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

Town of
STAMFORD

STATE PROJECT NO.
135-301

DRAWING NO.
TSH-01

SHEET NO.
01.01.000

3/28/2016
P:\Projects\ConnDot\36938292\500 CADD-GIS-Graphics\510 CADD\510.03 Highways\MSta. Contract Sheet Files\HW_MSH_135-301_TSH-01.dgn

EARTHWORK

ITEM NUMBER	0202000A	0202100	XXXXXX																																											
ITEM	EARTH EXCAVATION	ROCK EXCAVATION	FILL	SURPLUS																																										
UNIT	C.Y.	C.Y.	C.Y.																																											
ATLANTIC STREET	8650	865	385																																											
SOUTH STATE ST. AND EXIT RAMP	2500	250																																												
MANHATTAN ST.	553	55																																												
TOTAL	11703	1170	385																																											
SHRINKAGE (10%)	1170																																													
SWELL (2%)		23																																												
EARTH EXCAVATION AVAILABLE FOR FILL	10533																																													
ROCK EXCAVATION AVAILABLE FOR FILL		1194																																												
TOTAL FILL AVAILABLE	11727																																													
TOTAL	11703	1170	385																																											
UNASSIGNED	590	60	20																																											
GRAND TOTAL	12293	1230	405	11322																																										

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

FINAL DESIGN FOR REVIEW

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: 3/28/2016

DESIGNER/DRAFTER: S. MAHAJAN/G. HRICKO
CHECKED BY: J. KEEFE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_135-301_EST-01.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN: **STAMFORD**

DRAWING TITLE: **DETAIL ESTIMATE - 1**

PROJECT NO. **135-301**
DRAWING NO. **EST-01**
SHEET NO. 01.01.001

3/28/2016
P:\Projects\Conn0ot\36938292\500 CADD-GIS-Graphics\510 CADD\510.03 Highways\MSta. Contract. Sheet. Files\HW_MSH_135-301_EST-01.dgn

Border Version: 11/14/08

MISCELLANEOUS ITEMS

ITEM NUMBER	0201001A	0202502	0202529	0209001	0212000	0406170	0406171	0406172	0406236	0406267	0811001	0813001	0813011	0921001A	0921005A	0921018A	0921039A	0922501	0943001	0943002	0944003	0950005	0969000A	0969064A	0975002	0992093	1803060
ITEM	CLEARING AND GRUBBING	REMOVAL OF CONCRETE PAVEMENT	CUT BITUMINOUS CONCRETE PAVEMENT	FORMATION OF SUBGRADE	SUBBASE	HMA - S1	HMA - S0.5	HMA - S0.375	MATERIAL FOR TACK COAT	MILLING OF BITUMINOUS CONCRETE 0"-4"	CONCRETE CURBING	5" GRANITE STONE CURBING	5" GRANITE CURVED STONE CURBING	CONCRETE SIDEWALK	CONCRETE SIDEWALK RAMP	BRICK PAVING	DETECTABLE WARNING STRIP	BITUMINOUS CONCRETE DRIVEWAY	WATER FOR DUST CONTROL	SWEEPING FOR DUST CONTROL	FURNISHING AND PLACING TOPSOIL	TURF ESTABLISHMENT	PROJECT COORDINATOR	CONSTRUCTION FIELD OFFICE, LARGE	MOBILIZATION	RESET BRICK PAVING	TYPE B IMPACT ATTENUATION SYSTEM (NON-GATING)
UNIT	L.S.	S.Y.	L.F.	S.Y.	C.Y.	TONS	TONS	TONS	GAL.	S.Y.	L.F.	L.F.	L.F.	S.F.	S.F.	S.F.	EA.	S.Y.	MGAL.	HR.	S.Y.	S.Y.	L.S.	MO.	L.S.	S.F.	EA.
ATLANTIC STREET																											
SOUTH STATE ST.																											
EXIT RAMP																											
MANHATTAN ST.																											
SUBTOTAL	1	1282	1394	5138	1713	1477	1182	49	514	2170	2620	291	171	9227	1003	1706	16	13	360	440	1634	1634	1	20	1	885	2
UNASSIGNED	0	64	70	260	90	80	60	10	30	110	131	15	9	462	51	85	0	0	51	0	86	86	0	0	0	44	0
TOTAL	1	1346	1464	5398	1803	1557	1242	59	544	2280	2751	306	180	9689	1054	1791	16	13	411	440	1720	1720	1	20	1	929	2

DRAINAGE ITEMS / SANITARY SEWER ITEMS

ITEM NUMBER	0205001	0205002	0205003	0205004	0205005	0205006	0219011	0507263A	0507301A	0507501A	0507656	0507687	0507809	0651001	0651011	0651012	0651013	14035014A
ITEM	TRENCH EXCAVATION 0'-4' DEEP	ROCK IN TRENCH EXCAVATION 0'-4' DEEP	TRENCH EXCAVATION 0'-10' DEEP	ROCK IN TRENCH EXCAVATION 0'-10' DEEP	TRENCH EXCAVATION 0'-15' DEEP	ROCK IN TRENCH EXCAVATION 0'-15' DEEP	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	TYPE "C" DOUBLE GRATE - TYPE II WITHOUT SUMP	TYPE "C" DROP INLET	TYPE "C-L" DROP INLET	STANDARD STORM MANHOLE	MANHOLE - 5' DIAMETER	CONVERT TYPE "C-L" CATCH BASIN TO TYPE "C" CATCH BASIN	BEDDING MATERIAL	12" R.C. PIPE	15" R.C. PIPE	18" R.C. PIPE	RESET MANHOLE (SANITARY SEWER)
UNIT	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	C.Y.	L.F.	L.F.	L.F.	EA.
ATLANTIC STREET	47	5	147	15			8	1	7		1			10	63	58	75	
SOUTH STATE ST.	100	10	320	35	22	3	11	1	6	2		3	2	16	94			4
MANHATTAN ST.	32	4	34	4			2		2			1		4	43	42		1
SUBTOTAL	179	19	501	54	22	3	21	2	15	2	1	4	2	30	200	100	75	5
UNASSIGNED	11	1	24	3	2	1	0	0	0	0	0	0	0	3	20	10	8	
TOTAL	190	20	525	57	24	4	21	2	15	2	1	4	2	33	220	110	83	5

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

FINAL DESIGN FOR REVIEW

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: 3/28/2016

DESIGNER/DRAFTER: S. MAHAJAN
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_135-301_EST-02.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN: **STAMFORD**

DRAWING TITLE: **DETAILED ESTIMATE - 2**

PROJECT NO. **135-301**
DRAWING NO. **EST-02**
SHEET NO. 01.01.002

Border Version: 10/19/07

TRAFFIC ITEMS

ITEM NUMBER	1001001	1002202	1002203	1002208	1002232	1003002	1003104	1003916A	1003924	1008012	1008017	1008115	1008117	1008215	1008217	1008312	1008315	1008770	1008780	1009016	1010021	1010038A	1010039A	1012010	1012031	1012038	1102002	1104502A	1104504A	1104508A	1104553	1104557	1105103A	1105105A	1105303	1105400	110540X	1106001	1106003	1107007	1108578A	1108720	1108724	1111420A	1112214A	1112217A
ITEM	TRENCHING AND BACKFILLING	TRAFFIC CONTROL FOUNDATION-MAST ARM	TRAFFIC CONTROL FOUNDATION-PEDESTAL-TYPE I	TRAFFIC CONTROL FOUNDATION-CONTOLLER-TYPE IV	TRAFFIC CONTROL FOUNDATION-SPAN POLE TYPE C	LIGHT STANDARD (ANCHOR BASE)(6' BRACKET, 30' MOUNTING HEIGHT) ALUMINUM	LIGHT STANDARD (ANCHOR BASE)(10' BRACKET, 40' MOUNTING HEIGHT) ALUMINUM	REMOVE AND RELOCATE LIGHT STANDARD	REMOVE LIGHT STANDARD AND CONCRETE BASE	1" RIGID METAL CONDUIT - SURFACE	3" RIGID METAL CONDUIT - SURFACE	2" RIGID METAL CONDUIT IN TRENCH	3" RIGID METAL CONDUIT IN TRENCH	2" RIGID METAL CONDUIT UNDER ROADWAY	3" RIGID METAL CONDUIT UNDER ROADWAY	1" RIGID METAL CONDUIT IN STRUCTURE	2" RIGID METAL CONDUIT IN STRUCTURE	4" PVC MULTI-DUCT IN TRENCH	4" PVC MULTI-DUCT UNDER ROADWAY	18"x12"x8" CAST IRON JUNCTION BOX	CONCRETE HANDHOLE - TYPE II	PRECAST POLYMER CONCRETE HANDHOLE TYPE I (36"x36")	PRECAST POLYMER CONCRETE HANDHOLE TYPE II (17"x30")	NO. 10 SINGLE CONDUCTOR	NO. 2 SINGLE CONDUCTOR	NO. 8 SINGLE CONDUCTOR	8' ALUMINUM PEDESTAL	MAST ARM ASSEMBLY 25-1W	MAST ARM ASSEMBLY 35-1W	MAST ARM ASSEMBLY 55-1W	COMBINATION MAST ARM ASSEMBLY, 30-1W	COMBINATION MAST ARM ASSEMBLY, 50-1W	1 WAY 3 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY 5 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY, 3 SECTION PEDESTAL MOUNTED TRAFFIC SIGNAL	1 WAY, 3 SECTION BRIDGE MOUNTED TRAFFIC SIGNAL	1 WAY 5 SECTION BRIDGE MOUNTED TRAFFIC SIGNAL	1 WAY PEDESTRIAN SIGNAL POLE MOUNTED	1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	PEDESTRIAN PUSH BUTTON AND SIGN (PIEZO)	FULL ACTUATED CONTROLLER 8 PHASE (MODIFIED)	OPTICAL DETECTOR	PHASE SELECTOR	VIDEO VEHICLE DETECTION SYSTEM	IP SENTRY 360 VIDEO CAMERA ASSEMBLY	CAMERA LOWERING DEVICE ASSEMBLY
UNIT	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
ATLANTIC STREET	1674											946		780																																
SOUTH STATE ST. & EXIT RAMP																																														
MANHATTAN ST.																																														
SOUTH STATE ST. & ATLANTIC ST.	138	1	4	1							334	134	84	20	321							4	2				3				1		3		2	2	1	2	3	4	1	2	1	1	1		
ATLANTIC ST. & URBAN TRANSIT.	354			2								171	309	29	258			160	135			7																			1		1				
SOUTH STATE ST. & OFF RAMP	158	2			1							39	167	51	167							1						2					4									1	1	1	1	1	
NORTH STATE ST. & ATLANTIC ST.	299	3	3	1								106	376		222							5					3		1	1		1	7	1				5	3	8	1	3	1	1	1		
SUBTOTAL	2623	6	7	4	1	13	5	2	18	775	334	1396	937	880	968	30	2070	160	135	35	2	17	2	1365	9800	3910	6	2	1	1	1	1	14	1	2	2	1	7	6	12	3	6	4	3	3	1	
UNASSIGNED	131	0	0	0	0	0	0	0	0	45	17	70	47	44	48	10	110	8	7	0	0	0	0	75	490	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2754	6	7	4	1	13	5	2	18	820	351	1466	984	924	1016	40	2180	168	142	35	2	17	2	1440	10290	4110	6	2	1	1	1	1	14	1	2	2	1	7	6	12	3	6	4	3	3	1	

TRAFFIC ITEMS / ILLUMINATION ITEMS

ITEM NUMBER	1112241A	1113004	1113102	1113103	1113104	1113725A	1113905A	1113550	1116100A	1118012	1206090	1208938	1210101	1210102	1210104	1210105	1002101	1003912A	1003916A	1006139A	1008012	1009016	1012010
ITEM	FIBER OPTIC CABLE SPLICE ENCLOSURE	2 CONDUCTOR NO. 8 AWG TYPE SE STYLE THW	5 CONDUCTOR NO. 14 CABLE	7 CONDUCTOR NO. 14 CABLE	9 CONDUCTOR NO. 14 CABLE	23 AWG 4 TWISTED PAIR CATEGORY 6 CABLE	COMPOSITE VIDEO CAMERA CABLE	DETECTOR CABLE (OPTICAL)	INTERNALLY ILLUMINATED STREET NAME SIGN	REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT	RELOCATE SIGN	SIGN FACE - SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	LIGHT STANDARD FOUNDATION - TYPE I	REMOVE CONCRETE LIGHT STANDARD BASE	REMOVE AND RELOCATE LIGHT STANDARD	WALL MOUNTED LUMINAIRE	1" RIGID METAL CONDUIT - SURFACE	18"x12"x8" CAST IRON JUNCTION BOX	NO. 10 SINGLE CONDUCTOR
UNIT	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.S.	EA.	S.F.	L.F.	L.F.	L.F.	S.F.	EA.	EA.	EA.	EA.	L.F.	EA.	L.F.
ATLANTIC STREET																							
SOUTH STATE ST. & EXIT RAMP																							
MANHATTAN ST.																							
SOUTH STATE ST. & ATLANTIC ST.	2	172	883	1238	165	84	335	364	3														
ATLANTIC ST. & URBAN TRANSIT.	1	72	188	1383	400	363	367	200	3														
SOUTH STATE ST. & OFF RAMP			450			388	434	68															
NORTH STATE ST. & ATLANTIC ST.		92	1123	1509	156	211	535	577	3														
SUBTOTAL	3	336	2644	4130	721	1046	1671	1209	9	1	19	333	3964	2504	201	2500	2	2	2	15	435	5	1305
UNASSIGNED	0	7	132	206	36	52	84	60	0	0	1	17	198	127	10	125					22		65
TOTAL	3	353	2776	4336	757	1098	1755	1269	9	1	20	350	4162	2667	211	2625	2	2	2	15	457	5	1370

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

FINAL DESIGN FOR REVIEW

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: 3/28/2016

DESIGNER/DRAFTER: S. MAHAJAN
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_135-301_EST-03.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: **REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2**

TOWN: **STAMFORD**

DRAWING TITLE: **DETAILED ESTIMATE - 3**

PROJECT NO. **135-301**
DRAWING NO. **EST-03**
SHEET NO. 01.01.003

Border Version: 10/19/07

MAINTENANCE AND PROTECTION OF TRAFFIC ITEMS

ITEM NUMBER	0822002	0822010	0970007A	0971001A	0976002	0977001	0978002	0979003	0980001	1118051	1131002A	1205207	1205214	1209114	1209124	1209131	1214002	1220013A	1801000	1801001	1801002	1801003
ITEM	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB	REMOVAL OF TEMPORARY PRECAST CONCRETE BARRIER CURB	TRAFFIC PERSON (UNIFORMED FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	BARRICADE WARNING LIGHTS - HIGH INTENSITY	TRAFFIC CONE	TRAFFIC DRUM	CONSTRUCTION BARRICADE TYPE III	CONSTRUCTION STAKING	TEMPORARY SIGNALIZATION (SITE NO. 1)	REMOTE CONTROL CHANGLABLE MESSAGE SIGN	TYPE DE-7 DELINEATOR	TYPE DE-7A DELINEATOR	HOT APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW	HOT APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	HOT APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	6" PREFORMED BLACKLINE MASK PAVEMENT MARKING TAPE	CONSTRUCTION SIGNS-BRIGHT FLUORESCENT SHEETING	REPAIR OF IMPACT ATTENUATION SYSTEM TYPE A, MODULE 200 LB	REPAIR OF IMPACT ATTENUATION SYSTEM TYPE A, MODULE 400 LB	REPAIR OF IMPACT ATTENUATION SYSTEM TYPE A, MODULE 700 LB	REPAIR OF IMPACT ATTENUATION SYSTEM TYPE A, MODULE 1400 LB
UNIT	L.F.	L.F.	HR.	L.S.	DAY	EA.	EA.	EA.	L.S.	L.S.	DAY	EA.	EA.	L.F.	L.F.	S.F.	L.F.	S.F.	EA.	EA.	EA.	EA.
STAGE 1	350				5400													199				
STAGE 2					5400													64				
STAGE 3					5400																	
DETOUR FOR ATLANTIC CLOSURE																		199				
DETOUR FOR S. STATE CLOSURE																		116				
DETOUR FOR S. STATE & ATLANTIC																		204				
PEDESTRIAN DETOUR																		181				
SUBTOTAL	350	2706	2880	1	16200	40	100	20	1	1	540	50	100	2000	2000	25	200	794	16	16	112	16
UNASSIGNED	20	140	0	0	0	10	0	0	0	0	0	0	0	0	0	5	0	40	0	0	0	0
TOTAL	370	2846	2880	1	16200	50	100	20	1	1	540	50	100	2000	2000	30	200	834	16	16	112	16

ITEM NUMBER	
ITEM	
UNIT	
SUBTOTAL	
UNASSIGNED	
TOTAL	

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

FINAL DESIGN FOR REVIEW

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: 3/28/2016

DESIGNER/DRAFTER: S. MAHAJAN
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_135-301_EST-04.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: **REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2**

TOWN: **STAMFORD**

DRAWING TITLE: **DETAILED ESTIMATE - 4**

PROJECT NO. **135-301**
DRAWING NO. **EST-04**
SHEET NO. 01.01.004

Border Version: 10/19/07

STRUCTURAL ITEMS

ITEM NUMBER	0203000	0203100	0213901A	0213902A	0213904A	0216000	0503001A	0506070A	0506071A	0506073A	0509001	0512016A	0522425A	0601000	0601091A	0601201	0601276A	0601502	0601504	0602000	0602006	0602031	0602890	0603061A	0603062A	0603851A	0603881A	0603882A	0604398A	0604549A	0611106A	0701099	0701200	0701230	0701260	0701330	0702026A	0702027A	0702028A	0702029A	0702101	0707009A	0707012A	0708001	0714016A	0714026A	0714045A	0714046A
ITEM	STRUCTURE EXCAVATION-EARTH (COMPLETE	STRUCTURE EXCAVATION-ROCK (COMPLETE)	BALLAST	SUBBALLAST	BALLAST MAT	PERVIOUS STRUCTURE BACKFILL	REMOVAL OF SUPERSTRUCTURE	GROUND ANCHOR	PERFORMANCE TEST FOR GROUND ANCHOR	PROOF TEST FOR GROUND ANCHOR	WELDED STUDS	8" HALF ROUND STEEL DRAINAGE PIPE	POT, SPHERICAL OR DISC BEARINGS (600 KIPS)	CLASS "A" CONCRETE	SIMULATED STONE MASONRY	CLASS "F" CONCRETE	PRECAST SUBSTRUCTURE ELEMENTS	1½" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	DEFORMED STEEL BARS	DEFORMED STEEL BARS-EPOXY COATED	DEFORMED STEEL BARS-WELDABLE	DOWEL BAR SPLICER SYSTEM	STRUCTURAL STEEL (SITE NO. 1)	STRUCTURAL STEEL (SITE NO. 2)	STRUCTURAL STEEL (LOW ALLOY)	TEMPORARY SUPPORT SYSTEM (SITE NO. 1)	TEMPORARY SUPPORT SYSTEM (SITE NO. 2)	ERECTION EQUIPMENT-COMPLETE	POST-TENSIONING TENDONS	SAFETY WALK	FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	DRILLED SHAFT (2.0' DIAMETER)	DRILLED SHAFT EARTH EXCAVATION (2.0' DIAMETER)	DRILLED SHAFT ROCK EXCAVATION (2.0' DIAMETER)	PERMANENT CASING (2.0' DIAMETER)	MICROPILES	VERIFICATION TEST FOR MICROPILES	PROOF TEST FOR MICROPILES	MICROPILE LENGTH ADJUSTMENT	FURNISHING STEEL PILES	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	MEMBRANE WATERPROOFING (SHEET)	DAMPPROOFING	LAGGING	TEMPORARY SHEET PILING (RAILROAD)	TEMPORARY SOLDIER PILE AND LAGGING (RAILROAD)	SOLDIER PILE AND LAGGING LEFT IN PLACE (RAILROAD)
UNIT	CY	CY	CY	CY	SF	CY	LS	EA	EA	EA	EA	LF	EA	CY	SY	CY	CY	SF	SF	LB	LB	LB	EA	LS	LS	CWT	LS	LS	LS	LB	SF	LS	LF	LF	LF	LF	EA	EA	EA	LF	LB	SY	SY	SY	SF	SF	SF	SF
MNR BRIDGE TRACKS 1 - 5	3,600	10	150	TBD	10,400	835	1	4	1	3	1,475	775	60	85	640	2,450	TBD	190	1,000	125,000	15,200	TBD	260	1	1	TBD	1	1	1	TBD	390	*	150	120	30	120	282	TBD	TBD	TBD	22,800	1,150	TBD	40	TBD	5,000	3,130	1,565
RETAINING WALL 105	600					2,035		38	7	31	1,370			500	590	120		670		86,200						240						*	800	600	200	600					134,200							
RETAINING WALL 106	770					4,840		76	11	65	3,150			1,130	1,365	280		1,545		200,600						495						*	1,600	1,200	400	1,200					287,450							
RETAINING WALL 107	110					180		4	1	3	180			105	125	16		175		14,500						25						*	80	60	20	60					15,625							
SUBTOTAL	5,080	10	150	TBD	10,400	7,890	1	122	20	102	6,175	775	60	1,820	2,720	2,866	TBD	2,580	1,000	426,300	15,200	TBD	260	1	1	TBD	1	1	1	TBD	390	1	2,630	1,980	650	1,980	282	TBD	TBD	TBD	460,075	1,150	TBD	40	TBD	5,000	3,130	1,565
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5,080	10	150	TBD	10,400	7,890	1	122	20	102	6,175	775	60	1,820	2,720	2,866	TBD	2,580	1,000	426,300	15,200	TBD	260	1	1	TBD	1	1	1	TBD	390	1	2,630	1,980	650	1,980	282	TBD	TBD	TBD	460,075	1,150	TBD	40	TBD	5,000	3,130	1,565

STRUCTURAL ITEMS

ITEM NUMBER	0714050A	0715050A	0751821	0751831	0751996A	0755014	0913025A	0974001	1015034A
ITEM	TEMPORARY EARTH RETAINING SYSTEM	EARTH RETAINING SYSTEM LEFT IN PLACE	6" STRUCTURE UNDERDRAIN	6" OUTLET FOR UNDERDRAIN	GEOCOMPOSITE SHEET DRAIN	GEOTEXTILE (SEPARATION-HIGH SURVIVABILITY)	6' CHAIN LINK FENCE (BRIDGE)	REMOVAL OF EXISTING MASONRY	GROUNDING AND BONDING
UNIT	SF	SF	LF	LF	SF	SY	LF	CY	LS
MNR BRIDGE TRACKS 1 - 5	TBD	TBD	250	TBD	165	200	50	TBD	1
RETAINING WALL 105	TBD	TBD	320	35	2,215			TBD	
RETAINING WALL 106	TBD	TBD			5,335			TBD	
RETAINING WALL 107	TBD	TBD	35	10	310		55		
SUBTOTAL	TBD	TBD	605	TBD	8,025	200	105	TBD	1
UNASSIGNED	0	0	0	0	0	0	0	0	0
TOTAL	TBD	TBD	605	TBD	8,025	200	105	TBD	1

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

FINAL DESIGN FOR REVIEW

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: 3/28/2016

DESIGNER/DRAFTER: J. IVES
CHECKED BY: K. BARKER

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_135-301_EST-05.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: **REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2**

TOWN: **STAMFORD**

DRAWING TITLE: **DETAILED ESTIMATE - 5**

PROJECT NO. **135-301**
DRAWING NO. **EST-05**
SHEET NO. 01.01.005

Border Version: 10/19/07