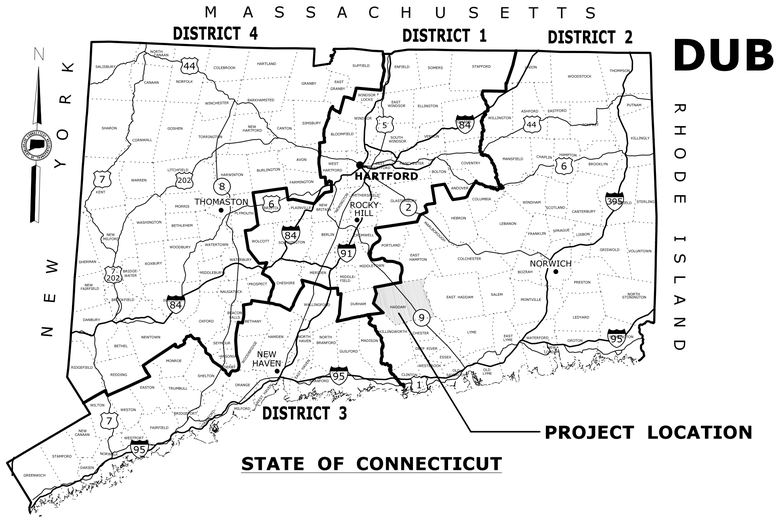
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

BRIDGE REPLACEMENT
BRIDGE NO. 04682
DUBLIN HILL RD OVER PONSET BROOK

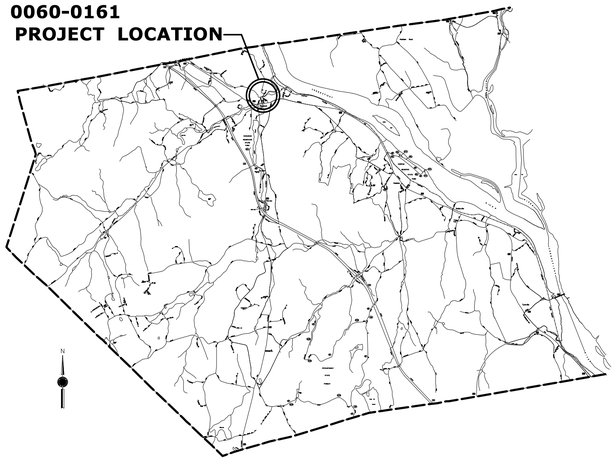
Town of

HADDAM

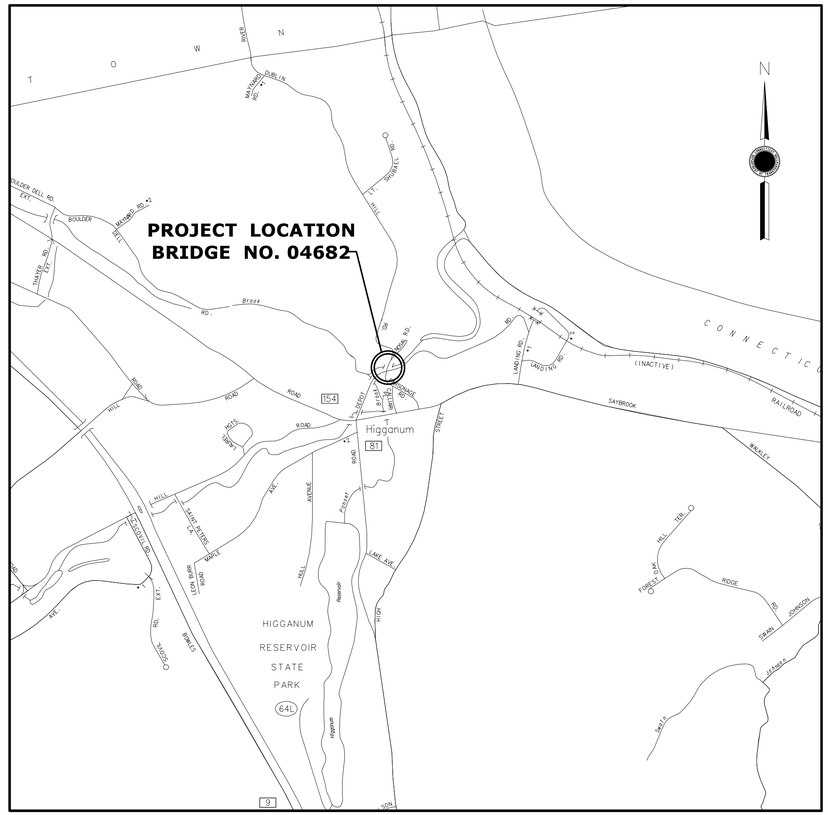


STATE OF CONNECTICUT

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
DUBLIN HILL RD	STATE OF CONNECTICUT	324FT



TOWN OF HADDAM



LOCATION PLAN

SCALE
NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO. XXXXXX
2. F.H.W.A. REGION NO. XXXX
3. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 817, dated 2016; and Supplemental Specifications, dated July 2017; and Special Provisions
4. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 83 (2011)
5. VERTICAL DATUM BASED ON 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	2
02	REVISIONS	1
03	HIGHWAYS	8
04	STRUCTURE	14
05	TRAFFIC	5
	HIGHWAY STANDARD SHEETS	-
	TRAFFIC STANDARD SHEETS	-

*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	EST-01

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

DESIGNED BY:
A.DICESARE ASSOCIATES, P.C.
690 CLINTON AVENUE
BRIDGEPORT, CT 06604

70% DESIGN SUBMISSION

Plans For
BRIDGE REPLACEMENT
BRIDGE NO. 04682
DUBLIN HILL ROAD OVER PONSET BROOK

Town
HADDAM

STATE PROJECT NO.
0060-0161

DRAWING NO.
G-01

SHEET NO.

ROADWAY ITEMS

ITEM NUMBER	0201030 P	0202000 P	0202100 P	0202529 P	0209001 P	0219001 P	0212000 P	0406171 P	0406236 P	0406275A P	0507001 P	0651015 P	0714050 P	0751898 P	0811001 P	0815001 P	0910170 P	0910173 P	0911923 P	0912503 P	0921001 P	0944000 P	0950005 P	0969062A P	0975004 P	0980001 P	1206023A P	1208928 P	1210101A P	1210102A P	1210106A P	1212001 P	1212010 P	1214002	1214003 P
ITEM	CLEARING AND GRUBBING (SITE NO. 1)	EARTH EXCAVATION	ROCK EXCAVATION	CUT BITUMINOUS CONCRETE PAVEMENT	FORMATION OF SUBGRADE	SEDIMENTATION CONTROL SYSTEM	SUBBASE	HMA S0.5	MATERIAL FOR TACK COAT	FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4")	TYPE "C" CATCH BASIN	24" R.C. PIPE	TEMPORARY EARTH RETAINING SYSTEM	CONCRETE ENDWALL	CONCRETE CURBING	BITUMINOUS CONCRETE LIP CURBING	METAL BEAM RAIL (TYPE R-B 350)	R-B 350 BRIDGE ATTACHMENT - VERTICAL SHAPED PARAPET	R-B END ANCHORAGE - TYPE 1	REMOVE METAL BEAM RAIL	CONCRETE SIDEWALK	FURNISHING AND PLACING TOPSOIL	TURF ESTABLISHMENT	CONSTRUCTION FIELD OFFICE, MEDIUM	MOBILIZATION AND PROJECT CLOSEOUT	CONSTRUCTION STAKING	REMOVAL AND RELOCATION OF EXISTING SIGNS	SIGN FACE SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" YELLOW	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 12" WHITE	6" PREFORMED BLACK LINE MASK PAVEMENT MARKING TAPE	8" PREFORMED BLACK LINE MASK PAVEMENT MARKING TAPE	
UNIT	LS	CY	CY	LF	SY	LF	CY	TON	GAL	SY	EA	LF	SF	EA	LF	LF	LF	EA	EA	LF	SF	SY	SY	MO	LS	LS	LS	SF	LF	LF	LF	LF	LF	LF	
BRIDGE NO. 04682	LS	400	25	240	910	800	354	360	220	400	5	140	2,200	2	220	215	210	3	3	320	685	540	540	XX	LS	LS	LS	3	500	300	50	100	40	80	40	
SUBTOTAL	LS	400	25	240	910	800	354	360	220	400	5	140	2,200	2	220	215	210	3	3	320	685	540	540	XX	LS	LS	LS	3	500	300	50	100	40	80	40	
UNASSIGNED																																			
TOTAL	LS	400	25	240	910	800	354	360	220	400	5	140	2,200	2	220	215	210	3	3	320	685	540	540	XX	LS	LS	LS	3	500	300	50	100	40	80	40	

STRUCTURE ITEMS

TRAFFIC ITEMS

ITEM NUMBER	0203202 P	0203304 P	0204151A P	0216000 P	0503001 P	0601156A P	0601000 P	0601088A P	0601201 P	0602000 P	0602006 P	0602936A P	0707009A P	0708001 P	0714050 P	0974001 P	0822001 P	0970007 P	0971001A P	0976002 P	0978002 P	0979003 P	1220027 P	1807202A P	1807210A P
ITEM	STRUCTURE EXCAVATION-EARTH (EXCLUDING COFFERDAM AND DEWATERING)	STRUCTURE EXCAVATION-ROCK (EXCLUDING COFFERDAM AND DEWATERING)	HANDLING WATER	PERVIOUS STRUCTURE BACKFILL	REMOVAL OF SUPERSTRUCTURE	PRECAST REINFORCED ARCH	CLASS "A" CONCRETE	CONCRETE FORM LINER	CLASS "F" CONCRETE	DEFORMED STEEL BARS	DEFORMED STEEL BARS - EPOXY COATED	DRILLING AND GROUTING REINFORCING BARS	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) DAMPPROOFING	TEMPORARY EARTH RETAINING SYSTEM	REMOVAL OF EXISTING MASONRY	TEMPORARY PRECAST CONCRETE BARRIER CURB	TRAFFICPERSON (UNIFORM FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	BARRICADE WARNING LIGHTS - HIGH INTENSITY	TRAFFIC DRUM	CONSTRUCTION BARRICADE TYPE III	CONSTRUCTION SIGNS	REPAIR OF TEMPORARY IMPACT ATTENUATION SYSTEM	TEMPORARY IMPACT ATTENUATION SYSTEM
UNIT	CY	CY	LS	CY	LS	LF	CY	SF	CY	LB	LB	LF	SY	SY	SF	CY	LF	HR	LS	DAY	EA	EA	SF	SF	SF
BRIDGE NO. 04682	1,300	85	LS	630	LS	33	190	1,700	70	7,700	9,100	400	366	190	2,200	638	160	XX	LS	XX	12	2	540	540	540
SUBTOTAL	1,300	85	LS	630	LS	33	190	1,700	70	7,700	9,100	400	366	190	2,200	638	160	XX	LS	XX	12	2	540	540	540
UNASSIGNED																									
TOTAL	1,300	85	LS	630	LS	33	190	1,700	70	7,700	9,100	400	366	190	2,200	638	160	XX	LS	XX	12	2	540	540	540

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

A = ** See Special Provisions **

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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: 11/15/2017

DESIGNER/DRAFTER: JVS/DSM

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_EST-01.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **DETAILED ESTIMATE SHEET**

PROJECT NO. **060-161**

DRAWING NO. **EST-01**

SHEET NO.

03 - HIGHWAY
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
HWY-01	INDEX OF HIGHWAY		
HWY-02	TYPICAL ROADWAY SECTIONS		
HWY-03	GEOMETRY PLAN		
HWY-04	ROADWAY PROFILE		
HWY-05	ROADWAY PLAN		
HWY-06	CROSS SECTIONS - 1		
HWY-07	CROSS SECTIONS - 2		
HWY-08	CROSS SECTIONS - 3		

DESIGNED BY:
A.DICESARE ASSOCIATES, P.C.
BRIDGEPORT, CT

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**
CHECKED BY: **ADC**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-01.dgn

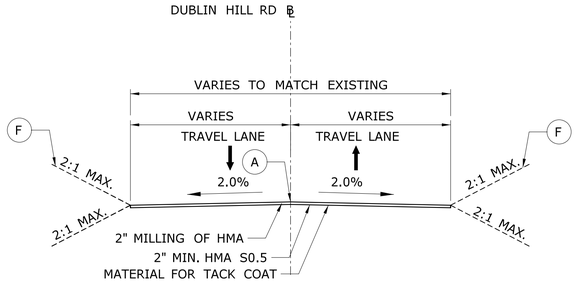
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **EAST HADDAM**

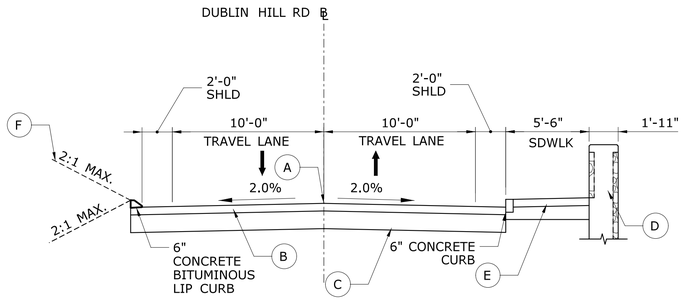
DRAWING TITLE: **INDEX OF HIGHWAY**

PROJECT NO. **060-161**
DRAWING NO. **HWY-01**
SHEET NO.



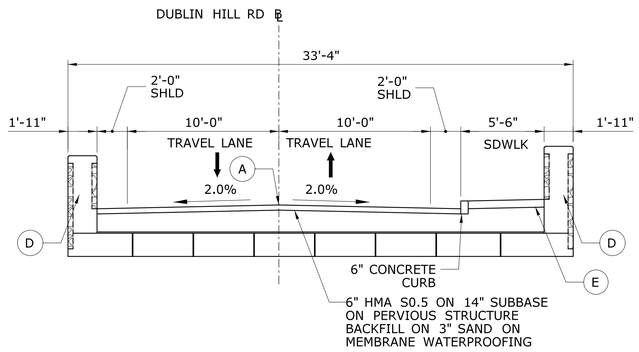
APPROACH ROADWAY SECTION

MILL AND OVERLAY
STA. 0+25.88 TO STA. 0+66.83
STA. 3+28.49 TO STA. 3+50



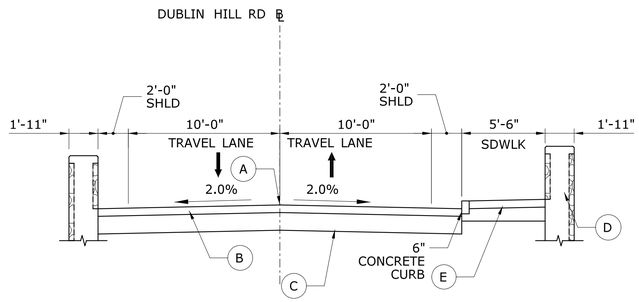
ROADWAY SECTION

FULL DEPTH PAVEMENT CONSTRUCTION
STA. 2+08.72 TO STA. 2+38.31



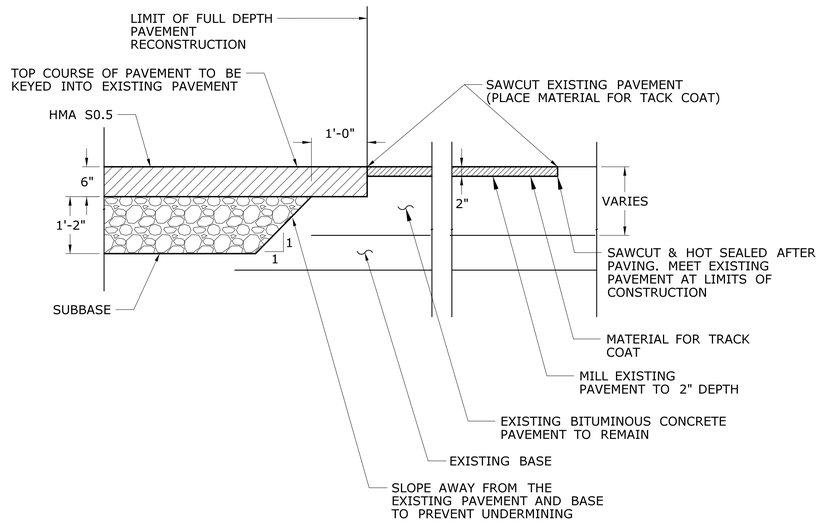
BRIDGE ROADWAY SECTION

STA. 1+01.31 TO STA. 1+94.31



ROADWAY SECTION

FULL DEPTH PAVEMENT CONSTRUCTION
STA. 0+89.81 TO STA. 1+01.31
STA. 1+94.31 TO STA. 2+08.72



ROADWAY PAVEMENT TRANSITION DETAIL

SCALE: N.T.S.

LEGEND

- Ⓐ POINT OF APPLIED GRADE
- Ⓑ 6" HMA S0.5 (PLACED IN THREE EQUAL LIFTS)
- Ⓒ 14" SUBBASE
- Ⓓ SIMULATED STONE-FACED PARAPET OR WINGWALL, FOR LOCATIONS AND TYPE SEE PLANS
- Ⓔ CONCRETE SIDEWALK AND GRANULAR FILL
- Ⓕ 4" TOPSOIL AND TURF ESTABLISHMENT

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC
SCALE IN FEET
0 5 10
SCALE 1"=5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-02.dgn

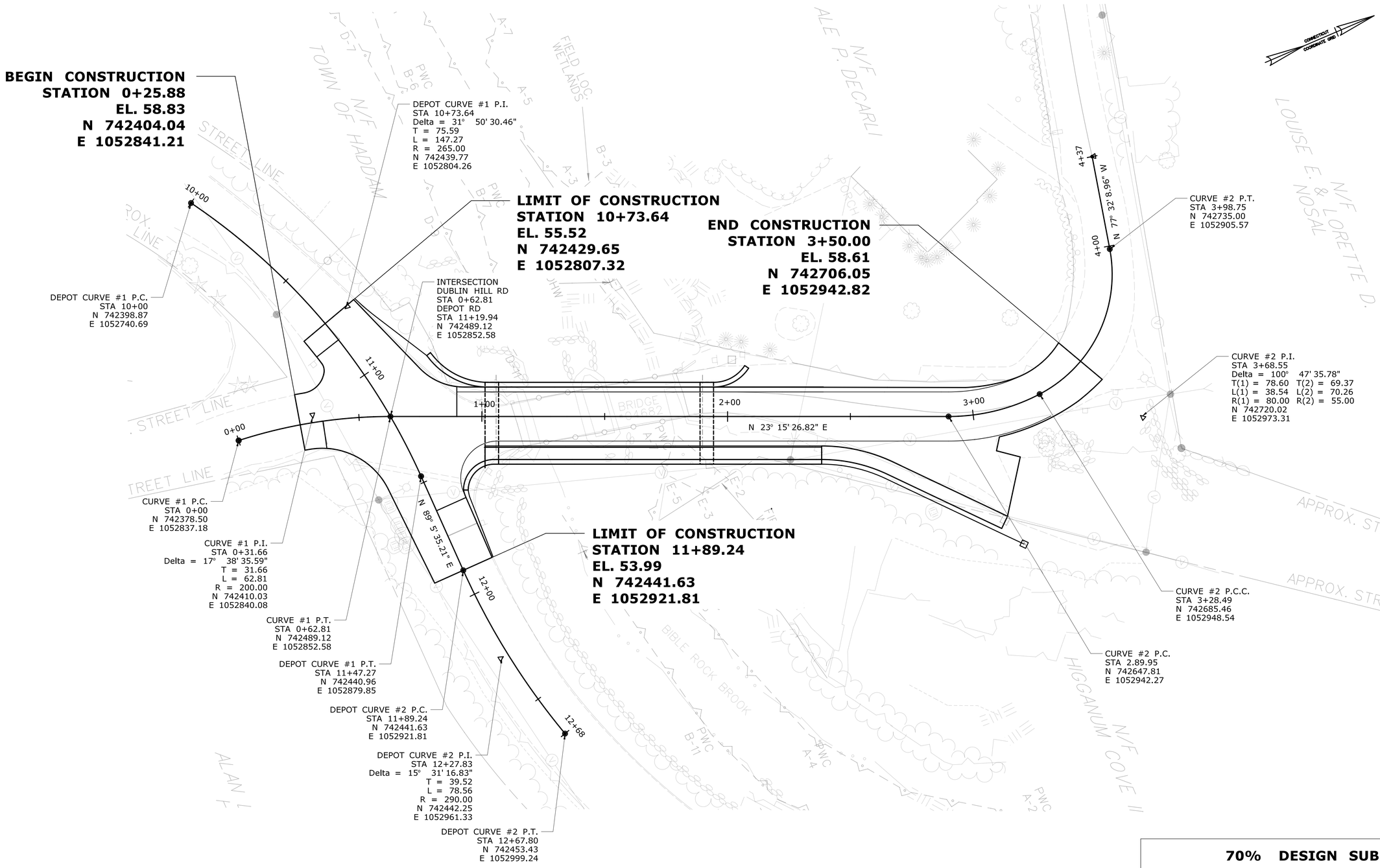
SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: HADDAM

DRAWING TITLE:
TYPICAL ROADWAY
SECTIONS

PROJECT NO. 060-161
DRAWING NO. HWY-02
SHEET NO.



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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG

CHECKED BY: ADC

SCALE IN FEET
0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-03.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **GEOMETRY PLAN**

PROJECT NO. **060-161**

DRAWING NO. **HWY-03**

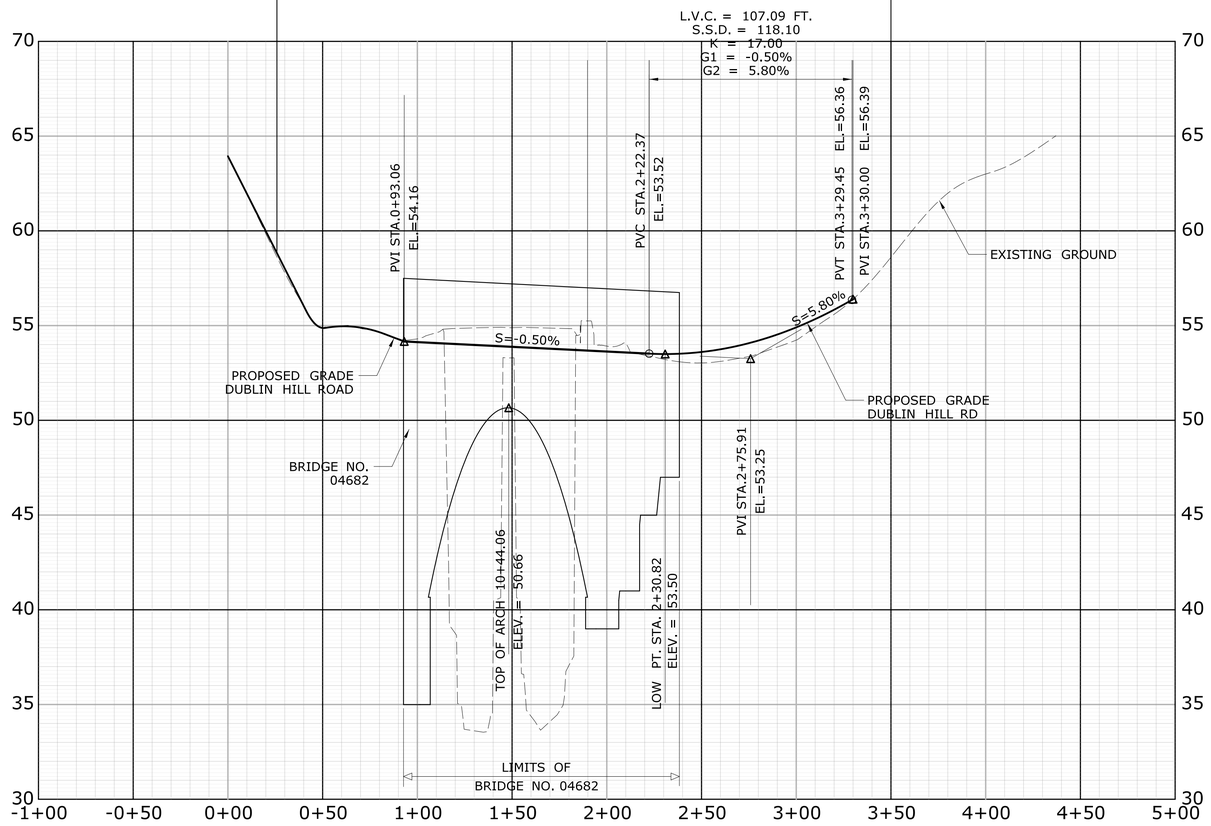
SHEET NO.

BEGIN PROJECT NO. 060-161

LIMITS OF MILL AND PAVE
MATCH EXISTING PAVEMENT
DUBLIN HILL RD ℄ STA 0+25.88
EL. = 58.83

END PROJECT NO. 060-161

LIMITS OF MILL AND PAVE
MATCH EXISTING PAVEMENT
DUBLIN HILL RD ℄ STA 3+50.00
EL. = 58.61



NOTES:

1. REFER TO ROADWAY PLANS, STAGE CONSTRUCTION PLANS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL BE AWARE THAT ALL DRAINAGE STRUCTURES SHALL BE BUILT SUCH THAT THEY CAN ACCOMMODATE FINAL GRADE CONDITIONS.
3. CONTRACTOR TO MAINTAIN EXISTING DRAINAGE UNTIL NEW DRAINAGE IS OPERATIONAL.
4. REFER TO HWY-XXX FOR CATCH BASIN STRUCTURE INVERTS

70% DESIGN SUBMISSION

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**
CHECKED BY: **ADC**
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-04.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **ROADWAY PROFILE**

PROJECT NO. **060-161**
DRAWING NO. **HWY-04**
SHEET NO.

REMOVE AND RELOCATE STOP SIGN
BEGIN BRIDGE 04682 STA 1+01.31
REMOVE METAL BEAM RAIL
CB-02, TYPE "C"
STA 0+93.23 L
CURVED WINGWALL (TYP. SOUTH APPROACH)
12" WHITE STOP BAR
24" RCP L=32'
METAL BEAM RAIL (TYPE R-B 350)
LIMIT OF FULL DEPTH PAVEMENT
RECONSTRUCTION STA 0+66.83
2" MILL AND PAVE (HMA S0.5)
RIGHT OF WAY LINE
4" YELLOW EPOXY RESIN PAVEMENT
MARKINGS TO MATCH EXISTING (TYP.)
LIMIT OF ROADWAY
CONSTRUCTION STA 10+73.64
12" WHITE STOP BAR
CUT BITUMINOUS
CONCRETE PAVEMENT
12" WHITE STOP BAR
RIGHT OF WAY LINE
REMOVE STOP SIGN
END BRIDGE 04682 STA 1+94.31
RIGHT OF WAY LINE
4" WHITE EPOXY RESIN
PAVEMENT MARKINGS
BITUMINOUS CONCRETE
LIP CURBING (TYP.)
CB-04, TYPE "C"
STA 2.42.13 L
24" RCP L=20'
PROPOSED UTILITY POLE BY OTHERS
CUT BITUMINOUS CONCRETE PAVEMENT
4" YELLOW EPOXY RESIN PAVEMENT
MARKINGS TO MATCH EXISTING (TYP.)
2" MILL AND PAVE (HMA S0.5)
CUT BITUMINOUS CONCRETE PAVEMENT
END PROJECT NO. 060-161
MATCH EXISTING
STA 3+50.00
CONNECTICUT COORDINATE GRID
10+00
11+00
0+00
1+00
2+00
3+00
4+00
4+37
12+00
12+68
2'
10'
10'
2'
5.5'
BEGIN PROJECT NO. 060-161
MATCH EXISTING
STA 0+25.88
REMOVE EXISTING CB
REMOVE EXISTING 24" RCP
CB-01, TYPE "C"
STA 0+53.69 R
24" RCP L=35'
CB-03, TYPE "CL"
STA 0+92.13 R
12" WHITE STOP BAR
REMOVE EXISTING CB
REMOVE METAL BEAM RAIL
METAL BEAM RAIL (TYPE R-B 350)
4" YELLOW EPOXY RESIN PAVEMENT
MARKINGS TO MATCH EXISTING (TYP.)
LIMIT OF ROADWAY CONSTRUCTION
STA 11+89.24
REMOVE AND RELOCATE STOP SIGN
24" RCP L=22'
PROPOSED UTILITY POLE BY OTHERS
CONCRETE SIDEWALK
CONCRETE END WALL EW-01
RIGHT OF WAY LINE
LIMIT OF FULL DEPTH PAVEMENT RECONSTRUCTION
STA 3+28.49
CUT BITUMINOUS CONCRETE PAVEMENT
R-B END ANCHORAGE - TYPE 1
PROPOSED UTILITY POLE BY OTHERS
4" WHITE EPOXY RESIN
PAVEMENT MARKINGS
METAL BEAM RAIL (TYPE R-B 350)
REMOVE METAL BEAM RAIL
CB-05, TYPE "C"
STA 2+42.13 R
24" RCP L=30'
UTILITY POLE TO BE RELOCATED BY OTHERS
CONCRETE END WALL EW-02
AND PREFORMED SCOUR HOLE

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC
SCALE IN FEET
0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-05.dgn

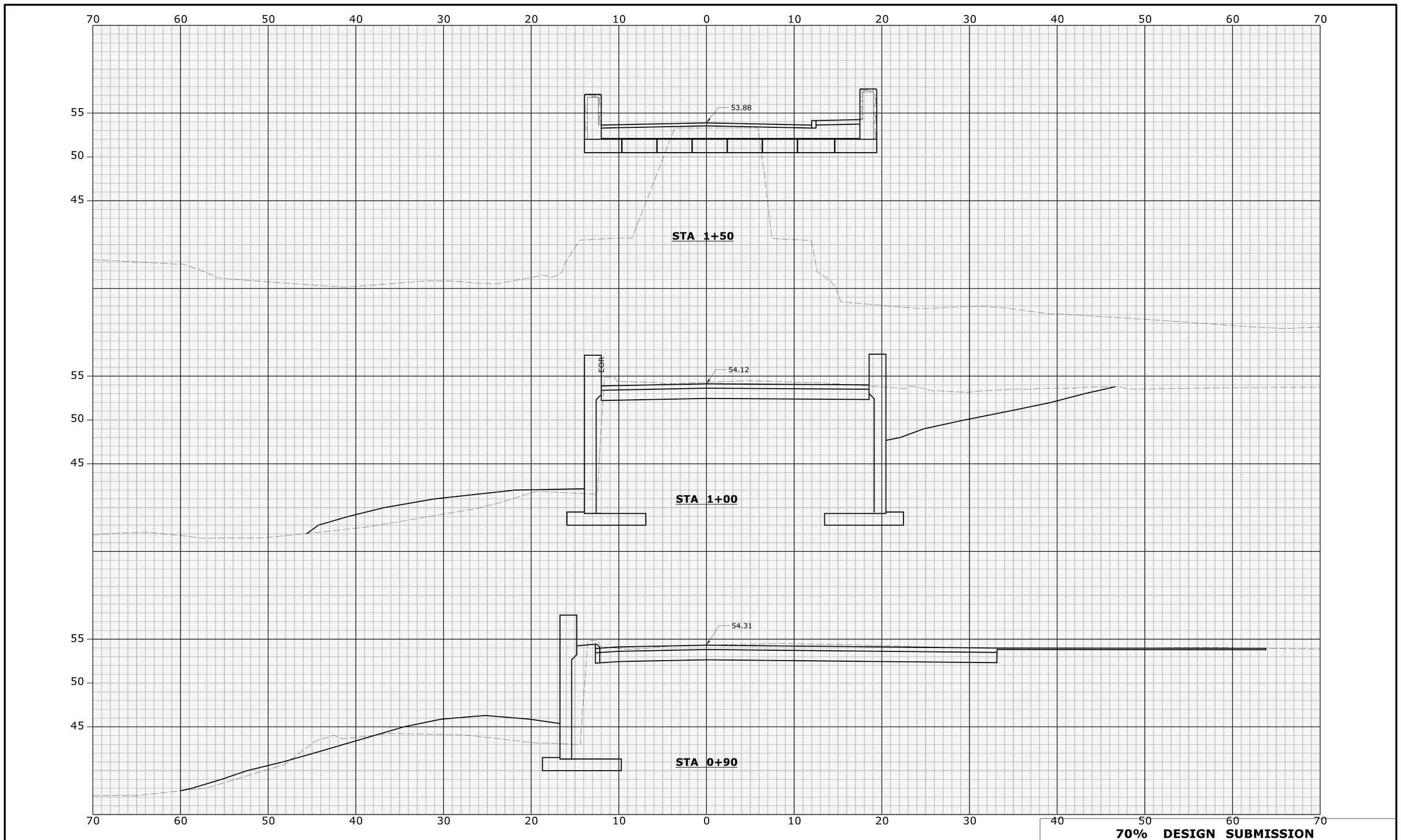
SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **ROADWAY PLAN**

PROJECT NO. **060-161**
DRAWING NO. **HWY-05**
SHEET NO.



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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**

CHECKED BY: **ADC**

SCALE IN FEET
0 5 10
SCALE 1"=5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-06.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

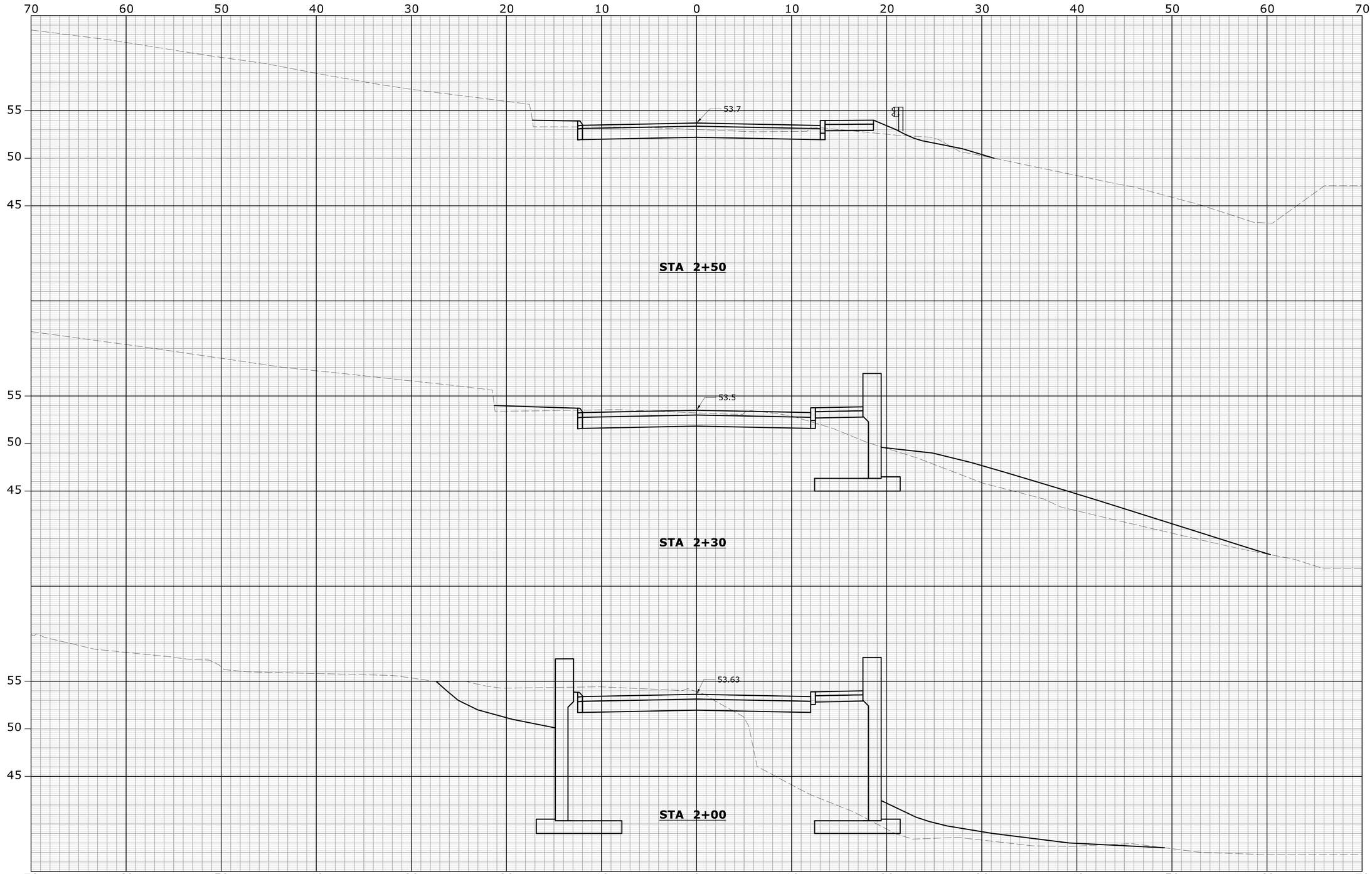
TOWN: **HADDAM**

DRAWING TITLE: **CROSS SECTIONS - 1**

PROJECT NO. **060-161**

DRAWING NO. **HWY-06**

SHEET NO.



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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**

CHECKED BY: **ADC**

SCALE IN FEET

0 5 10

SCALE 1"=5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-07.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

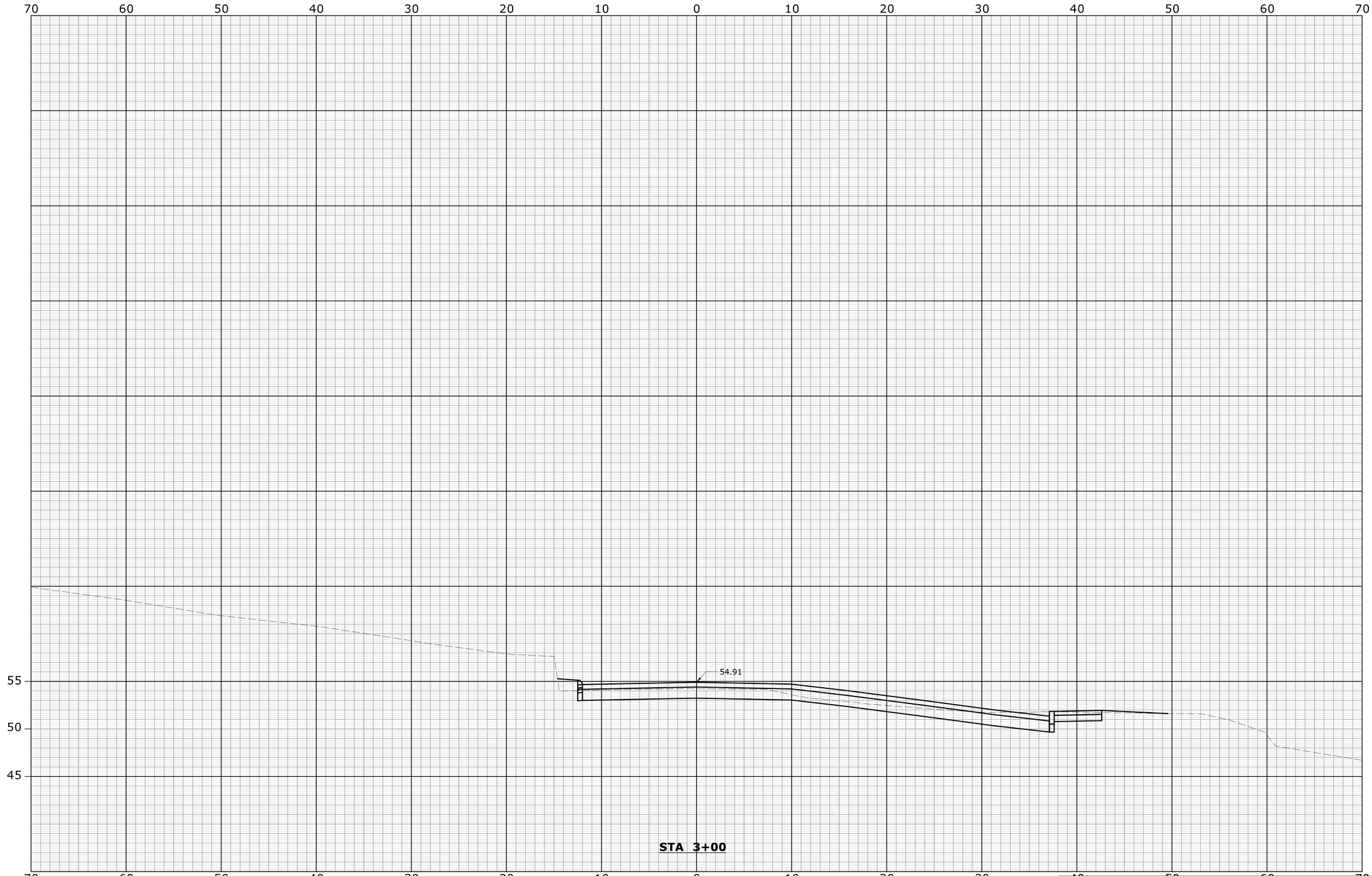
TOWN: **HADDAM**

DRAWING TITLE: **CROSS SECTIONS - 2**

PROJECT NO. **060-161**

DRAWING NO. **HWY-07**

SHEET NO.



70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**

CHECKED BY: **ADC**

SCALE IN FEET

0 5 10

SCALE 1"=5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_BR04682_060_161_HWY-08.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **CROSS SECTIONS - 3**

PROJECT NO. **060-161**

DRAWING NO. **HWY-08**

SHEET NO.

04 - STRUCTURE
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	INDEX OF STRUCTURE		
S-02	EXISTING CONDITIONS		
S-03	GENERAL NOTES		
S-04	GENERAL PLAN		
S-05	BRIDGE ELEVATIONS AND WINGWALL SECTIONS		
S-06	BRIDGE PLAN AND SECTIONS		
S-07	STAGING PLAN		
S-08	SOIL BORING LOCATION PLAN		
S-09	SOIL BORING DATA		
S-10	SIDEWALK RAMP DETAILS		
S-11	EXISTING STRUCTURE DRAWING - 1		
S-12	EXISTING STRUCTURE DRAWING - 2		
S-13	EXISTING STRUCTURE DRAWING - 3		
S-14	EXISTING STRUCTURE DRAWING - 4		

DESIGNED BY:
A.DICESARE ASSOCIATES, P.C.
BRIDGEPORT, CT

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**
CHECKED BY: **ADC**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-01.dgn

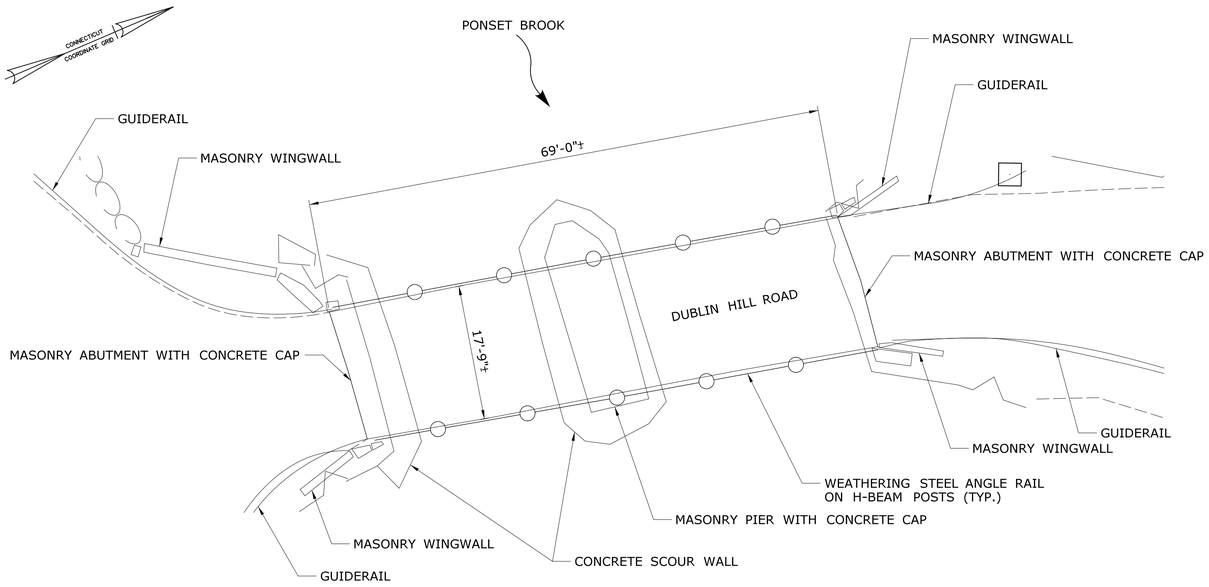
SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

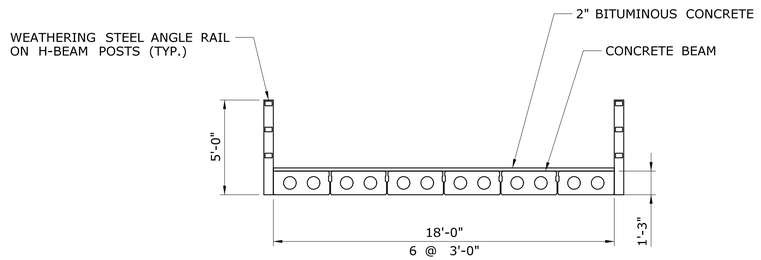
DRAWING TITLE: **INDEX OF STRUCTURE**

PROJECT NO. **060-161**
DRAWING NO. **S-01**
SHEET NO.



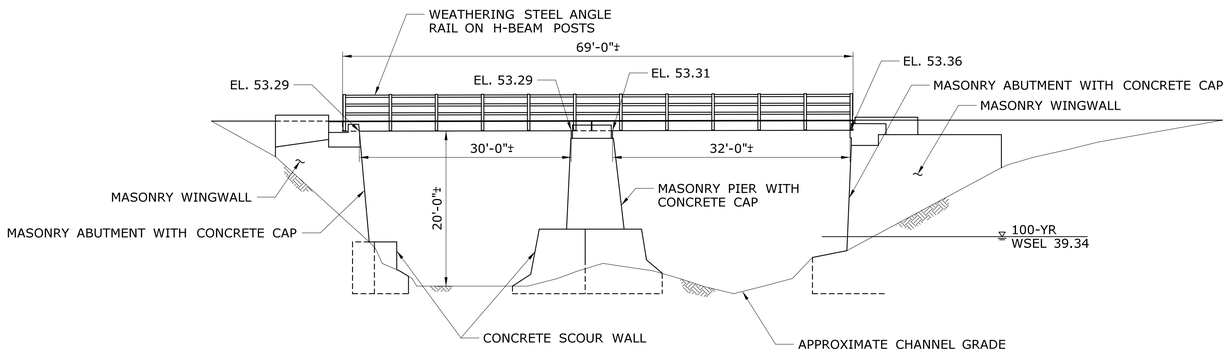
GENERAL PLAN

SCALE: 1"=10'



TYPICAL CROSS SECTION

SCALE: 1/4"=1'-0"



DOWNSTREAM ELEVATION

SCALE: 1"=10'

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-02.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **EXISTING CONDITIONS**

PROJECT NO. **060-161**

DRAWING NO. **S-02**

SHEET NO.

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	DRAWING NUMBER REFERENCE
NONE	-

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (EXCLUDING COFFERDAM & DEWATERING)	CY	1,300
STRUCTURE EXCAVATION - ROCK (EXCLUDING COFFERDAM & DEWATERING)	CY	85
HANDLING WATER	LS	LS
PREVIOUS STRUCTURE BACKFILL	CY	630
REMOVAL OF SUPERSTRUCTURE	LS	LS
PRECAST REINFORCED ARCH	LF	33
CLASS "A" CONCRETE	CY	190
CONCRETE FORM LINER	SF	1,700
CLASS "F" CONCRETE	CY	70
DEFORMED STEEL BARS	LB	7,700
DEFORMED STEEL BARS - EPOXY COATED	LB	9,100
DRILLING AND GROUTING REINFORCING BARS	LF	400
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	366
DAMPROOFING	SY	190
REMOVAL OF EXISTING MASONRY	CY	638

MAXIMUM COMPONENT SIZE CHARACTERISTICS
(SOUTH ABUTMENT TO SPLICE)
LENGTH = XXX
WIDTH = XXX
HEIGHT = XXX
WEIGHT = XXX

TRANSPORTATION DATA (APPROXIMATE MAXIMUM ESTIMATED VALUES)				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
TYP.	XXXX.XX	XXXX.XX	XXXX.XX	XXXX.XX

CONCRETE DISTRIBUTION		
SUPERSTRUCTURE	C.Y.	XXX
SUBSTRUCTURE	C.Y.	XXX
FOOTINGS	C.Y.	XXX
TOTAL	C.Y.	XXX

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH BRIDGE PARAPET ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ: 04682. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER ITEM 1208928 SIGN FACE SHEET ALUMINUM (TYPE IV REFLECTIVE SHEETING). THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2017 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (4TH EDITION) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:
-CLASS "A" BASED ON f'c = 3,300 P.S.I.
-CLASS "F" BASED ON f'c = 4,400 P.S.I.
-REINFORCEMENT: (ASTM A615 GRADE 60) fy = 60,000 P.S.I.

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f'c, OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIAL PROVISION "SECTION 6.01 CONCRETE FOR STRUCTURES."

HMA OVERLAY: OVERLAY SHALL CONSIST OF 6" HMA S0.5 ON 14" SUBBASE ON PERVIOUS STRUCTURE BACKFILL ON 3" SAND ON MEMBRANE WATERPROOFING.

LIVE LOAD: HL-93

FUTURE PAVING ALLOWANCES: NONE

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

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

SUPERSTRUCTURE REMOVAL: BEFORE INITIATING CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL DEFINING METHOD FOR CONSTRUCTION AND PROTECTION OF DEBRIS FROM FALLING INTO THE STREAMBED DURING REMOVAL OF THE EXISTING BRIDGE SUPERSTRUCTURE. COST TO BE INCLUDED IN THE COST OF "REMOVAL OF SUPERSTRUCTURE".

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "SECTION 1.08 - PROSECUTION AND PROGRESS."

CONCRETE NOTES

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR ABUTMENTS AND WINGWALL FOOTINGS.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR SIDEWALKS, PARAPETS AND WINGWALL STEMS.

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

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE MIN. 2" COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60. THESE PLANS ARE DETAILED WITH ENGLISH DESIGNATION OF REINFORCING. THE DESIGNATION IS BASED ON THE DIAMETER OF THE BAR IN INCHES.

REINFORCING BARS: ALL REINFORCEMENT IN THE ABUTMENTS AND WINGWALL FOOTINGS SHALL BE BLACK BARS UNLESS OTHERWISE NOTED.

ALL REINFORCEMENT IN THE PRECAST REINFORCED CONCRETE ARCH SHALL BE INCLUDED IN THE COST OF THE ITEM "PRECAST REINFORCED CONCRETE ARCH".

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT IN THE SIDEWALKS, WINGWALL STEMS AND PARAPETS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE. THESE BARS SHALL BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS (EPOXY COATED)".

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK
CHECKED BY: ADC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-03.dgn

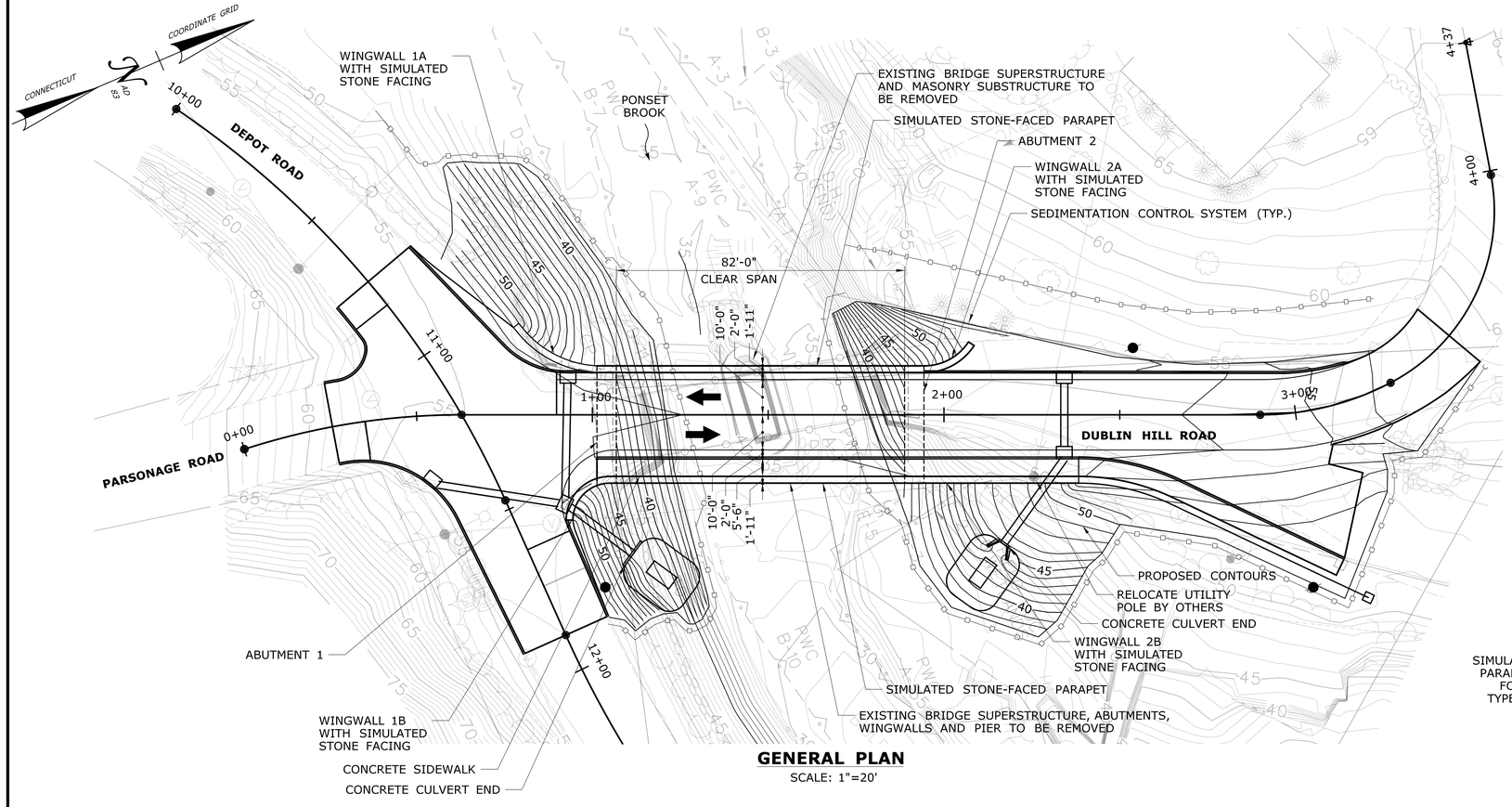
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

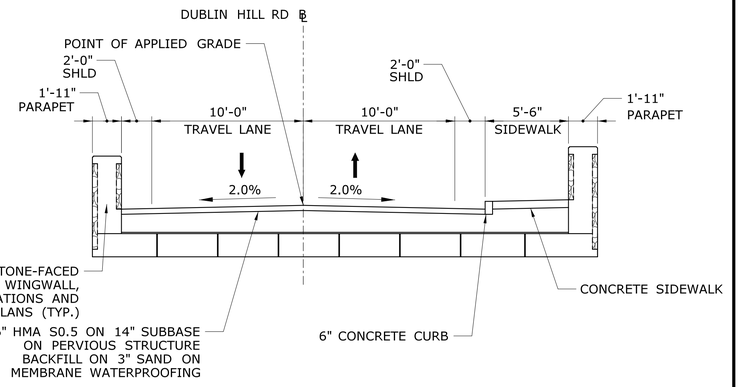
DRAWING TITLE: **GENERAL NOTES**

PROJECT NO. **060-161**
DRAWING NO. **S-03**
SHEET NO.



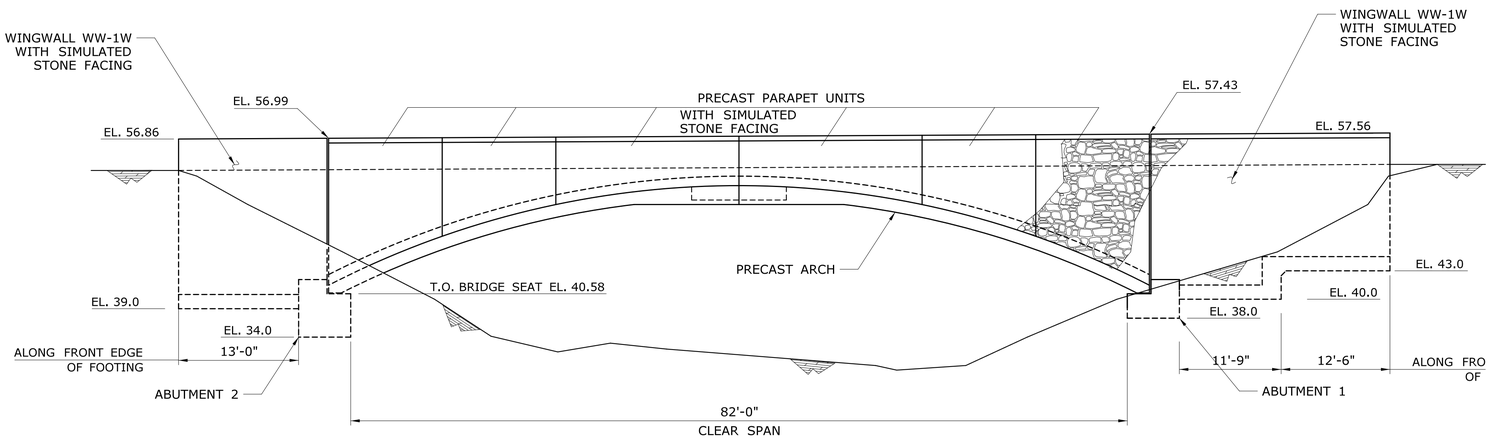
GENERAL PLAN

SCALE: 1"=20'



TYPICAL SECTION

SCALE: 1"=5'



WEST (UPSTREAM) ELEVATION

SCALE: $\frac{1}{8}$"=1'-0"

70% DESIGN SUBMISSION

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-04.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
**BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK**

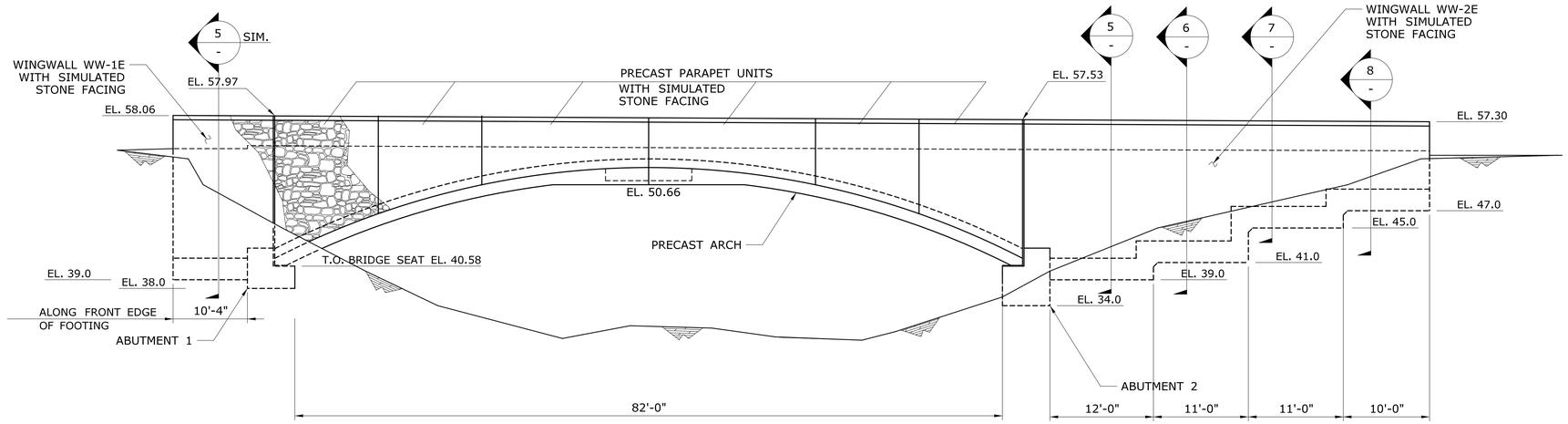
TOWN: **HADDAM**

DRAWING TITLE: **GENERAL PLAN**

PROJECT NO. **060-161**

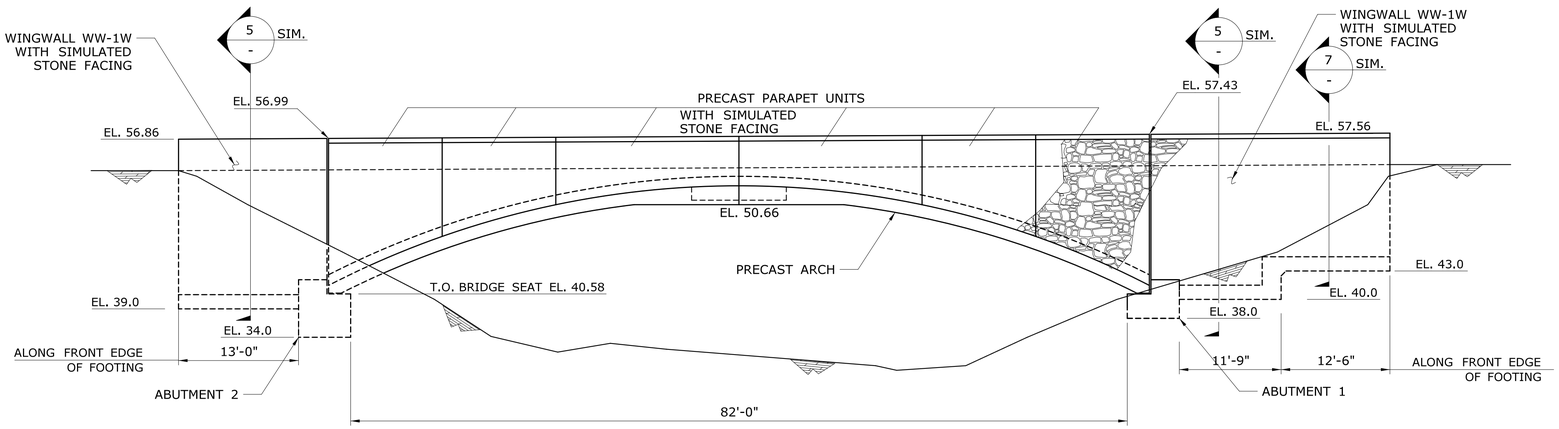
DRAWING NO. **S-04**

SHEET NO.



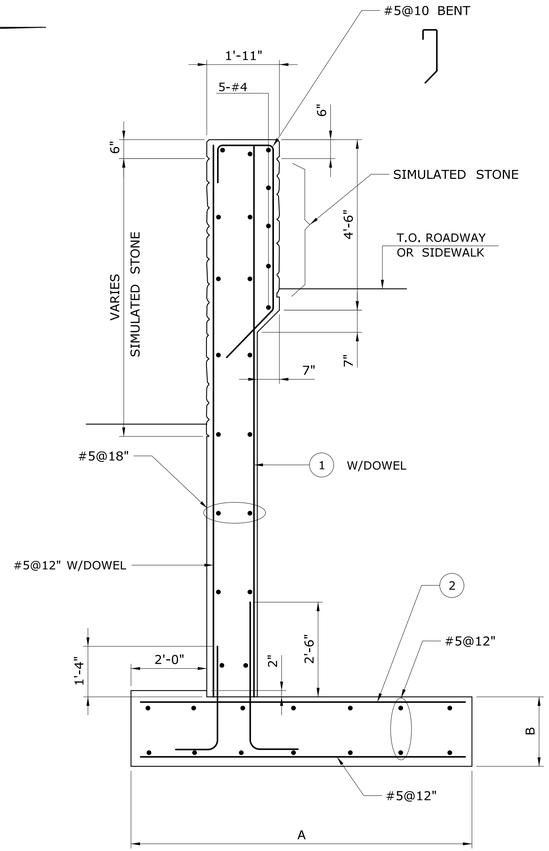
EAST (DOWNSTREAM) ELEVATION

SCALE: $\frac{1}{8}$"=1'-0"



WEST (UPSTREAM) ELEVATION

SCALE: $\frac{1}{8}$"=1'-0"



NOTE: FOR CURVED PORTION OF WINGWALLS (AS SHOWN ON PLAN) TEMPERATURE REINFORCING BARS SHALL BE BENT TO FOLLOW LINE OF CURVATURE; MAIN HORIZONTAL BARS LAYOUT SHALL BE DONE IN RADIAL DIRECTION USING SPACING SHOWN APPROX. AT CENTERLINE.

SECTION

SCALE: $\frac{1}{2}$"=1'-0"

5 - 6 - 7 - 8 -

WINGWALL SCHEDULE				
SECTION	A	B	(1)	(2)
5	10'-0"	1'-10"	#7@12"	#6@8"
6	9'-0"	1'-10"	#6@12"	#6@10"
7	8'-0"	1'-6"	#6@14"	#6@12"
8	7'-0"	1'-6"	#5@12"	#5@12"

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-05.dgn

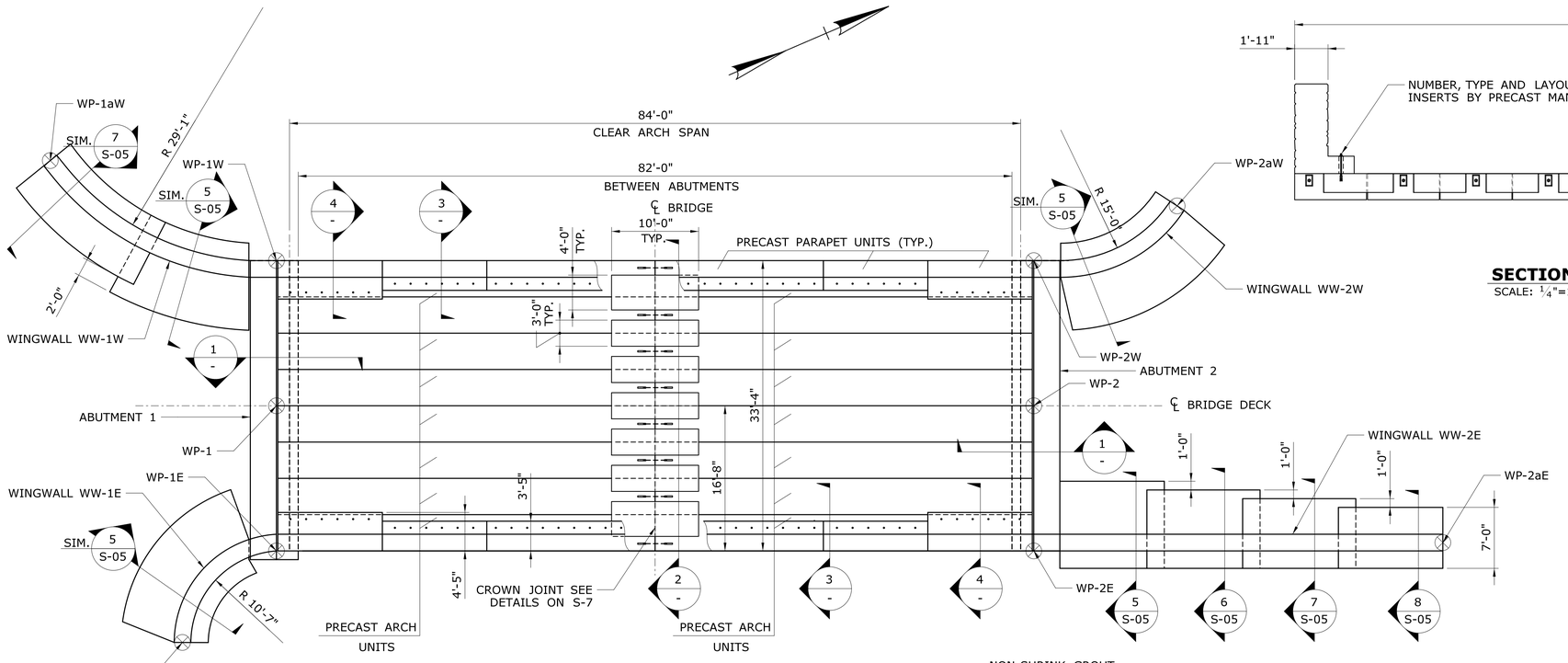
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

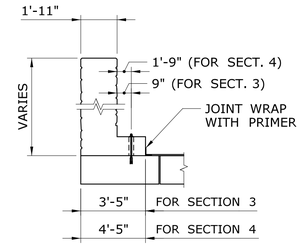
DRAWING TITLE: **BRIDGE ELEVATIONS AND WINGWALL SECTIONS**

PROJECT NO. **060-161**
DRAWING NO. **S-05**
SHEET NO.



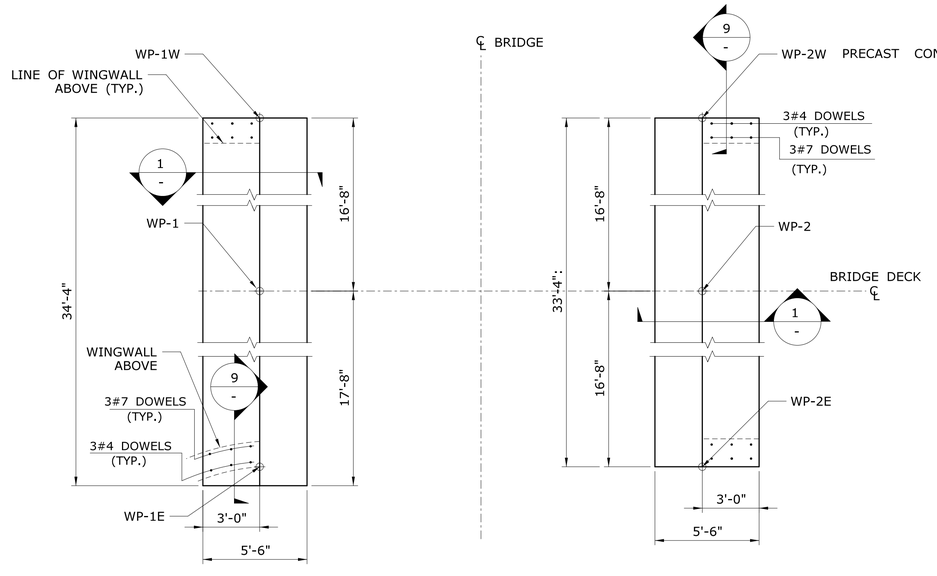
BRIDGE PLAN
SCALE: 1/8"=1'-0"

SECTION 2 / -
SCALE: 1/4"=1'-0"



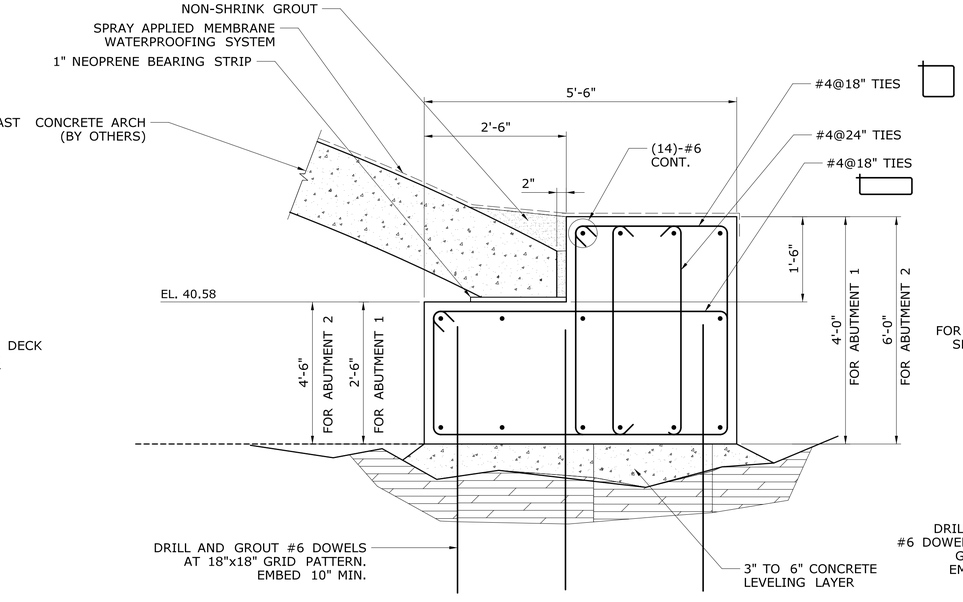
SECTION 3 / - 4 / -
SCALE: 1/4"=1'-0"

WORKING POINTS		
LOCATION	NORTH	EAST
WP-1W	742482.746	1052856.184
WP-1	742741.165	1052871.497
WP-1E	742469.584	1052886.809
WP-2W	742562.676	1052890.537
WP-2	742558.095	1052905.850
WP-2E	742549.514	1052921.162
WP-1aW	742463.407	1052835.371
WP-1aE	742455.508	1052892.198
WP-2aW	742580.292	1052891.269
WP-2aE	742593.073	1052938.840

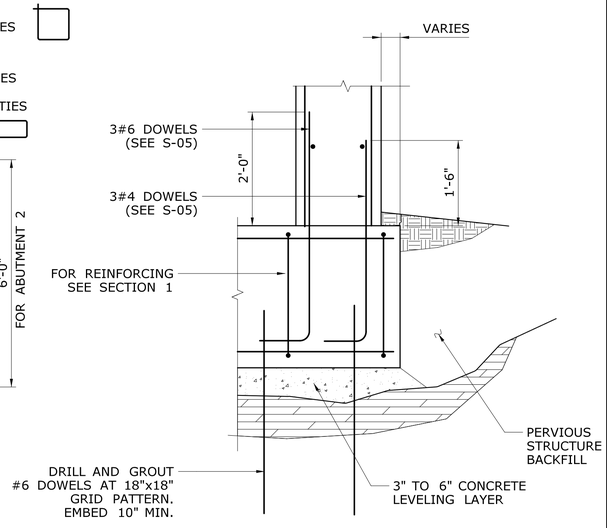


ABUTMENT 1
SCALE: 1/4"=1'-0"

ABUTMENT 2
SCALE: 1/4"=1'-0"



SECTION 1 / S-5
SCALE: 3/4"=1'-0"



SECTION 9 / -
SCALE: 3/4"=1'-0"

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-06.dgn

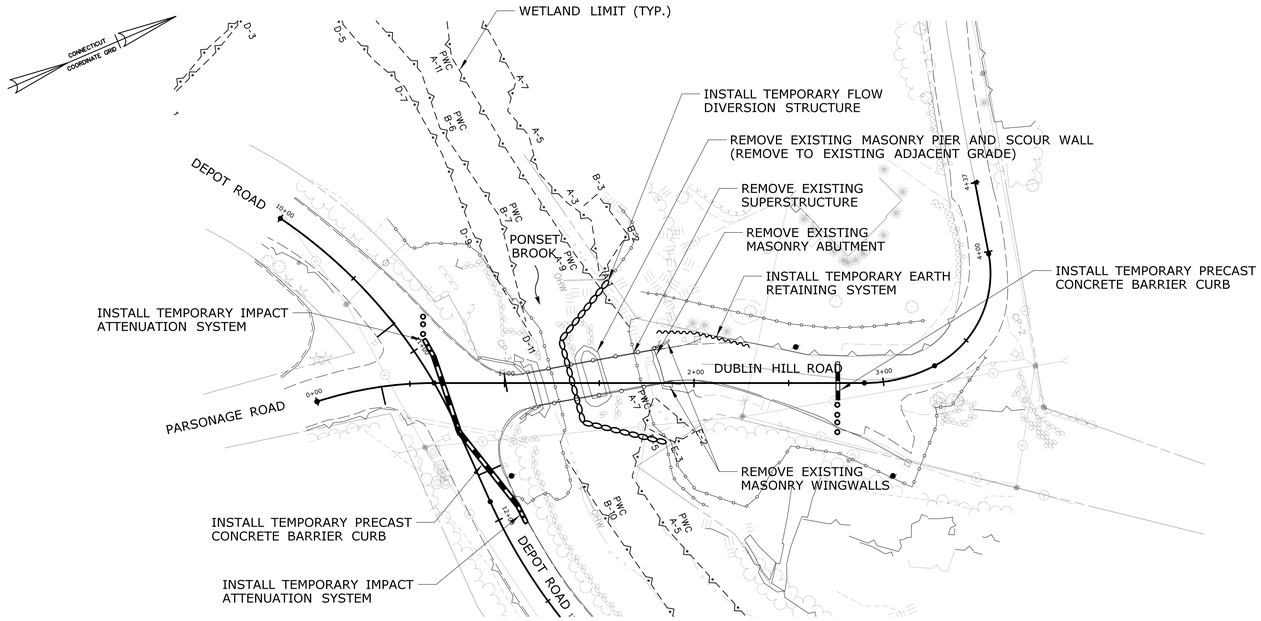
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

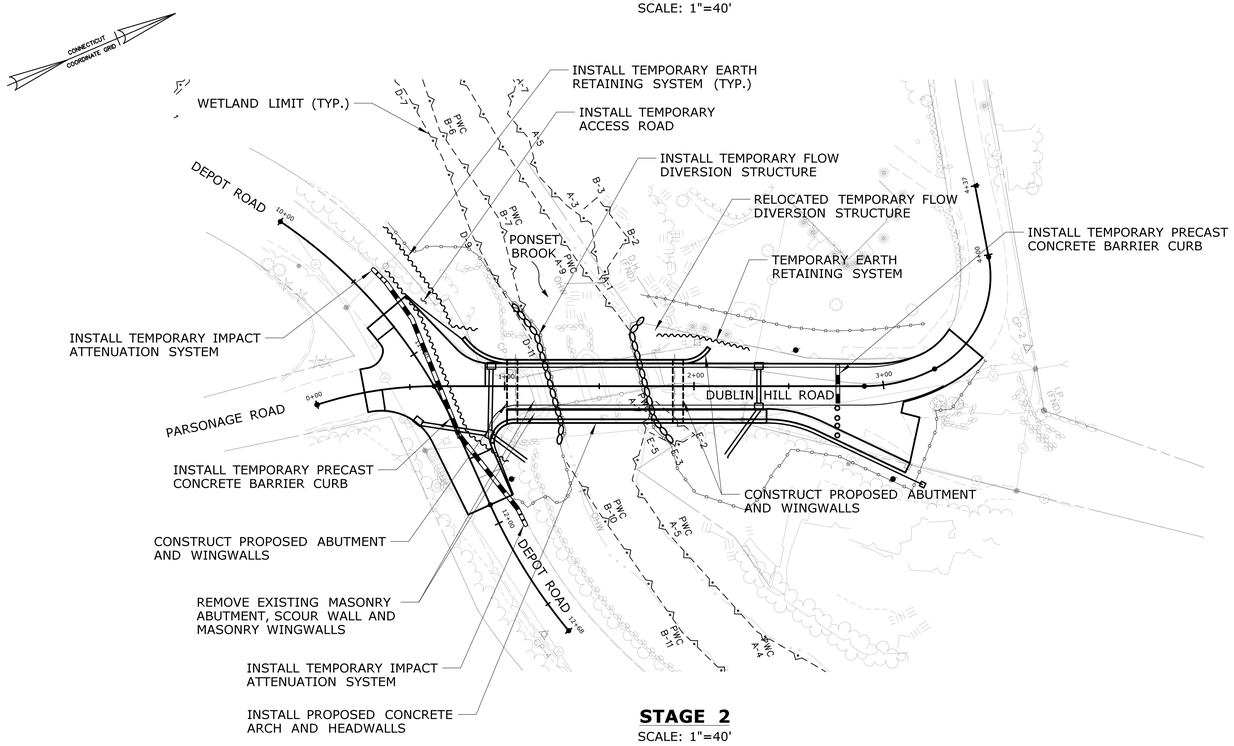
DRAWING TITLE:
BRIDGE PLAN AND SECTIONS

PROJECT NO. **060-161**
DRAWING NO. **S-06**
SHEET NO.



STAGE 1

SCALE: 1"=40'



STAGE 2

SCALE: 1"=40'

SUGGESTED STAGE 1 CONSTRUCTION SEQUENCE

1. IMPLEMENT DETOUR AND CLOSE THE BRIDGE.
2. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURB, TEMPORARY IMPACT ATTENUATION SYSTEM AND TEMPORARY PAVEMENT MARKINGS. IMPLEMENT ONE WAY ALTERNATING TRAFFIC PATTERN ON DEPOT ROAD.
3. INSTALL TEMPORARY FLOW DIVERSION STRUCTURE AS SHOWN IN THE STAGE 1 PLAN.
4. REMOVE EXISTING SUPERSTRUCTURE.
5. INSTALL TEMPORARY EARTH RETAINING SYSTEM AT NORTHWEST SIDE OF BRIDGE.
6. REMOVE EXISTING MASONRY ABUTMENT (NORTH), MASONRY WINGWALLS (NORTH) AND MASONRY PIER INCLUDING SCOUR WALL.
7. RELOCATE STAGE 1 TEMPORARY FLOW DIVERSION STRUCTURES AS SHOWN IN STAGE 2 BELOW.

SUGGESTED STAGE 2 CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY FLOW DIVERSION STRUCTURE ALONG THE SOUTH ABUTMENT AS SHOWN IN THE STAGE 2 PLAN.
2. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY IMPACT ATTENUATION SYSTEM ON DEPOT ROAD TO ACCOMMODATE STAGE 2 CONSTRUCTION.
3. INSTALL TEMPORARY EARTH RETAINING SYSTEM AT THE SOUTH SIDE OF THE BRIDGE.
4. CONSTRUCT TEMPORARY ACCESS ROAD.
5. REMOVE THE EXISTING MASONRY ABUTMENT (SOUTH) INCLUDING SCOUR WALL AND WINGWALLS (SOUTH).
6. CONSTRUCT PROPOSED ABUTMENT AND WINGWALL FOOTINGS (NORTH AND SOUTH).
7. INSTALL PROPOSED CONCRETE ARCH AND HEADWALLS.
8. CONSTRUCT WINGWALL STEMS.
9. BACKFILL AND INSTALL SIDEWALK AND PROPOSED DRAINAGE STRUCTURES.
10. REMOVE TEMPORARY EARTH RETAINING SYSTEM AND RECONSTRUCT THE ROADWAY APPROACHES.
11. ESTABLISH FINISHED GRADES AT WINGWALLS AND ABUTMENTS.
12. OPEN THE BRIDGE TO TRAFFIC AND PERFORM GENERAL SITE CLEAN UP.

NOTE:

1. CONTRACTOR SHALL MAINTAIN DRAINAGE ALONG DUBLIN HILL ROAD AND DEPOT ROAD DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR HANDLING THE FLOW FROM THE EXISTING CATCH BASIN BY GRADING TO DRAIN, PIPING, OR OTHER MEANS AS DESIGNED BY THE CONTRACTOR. MEANS FOR HANDLING THESE FLOWS SHALL BE INCLUDED IN THE "HANDLING WATER" SUBMISSION. ALL COST ASSOCIATED WITH HANDLING THESE FLOWS SHALL BE INCLUDED IN THE COST OF THE ITEM "HANDLING WATER".
2. TEMPORARY FLOW DIVERSION STRUCTURE SHALL BE PAID FOR UNDER THE ITEM FOR WATER HANDLING.

HYDRAULIC DATA	
AVERAGE DAILY FLOW (CFS)	XXX
AVERAGE SPRING FLOW (CFS)	XXX
2-YR FREQUENCY DISCHARGE (CFS)	XXX
TEMPORARY DESIGN DISCHARGE (CFS)	XXX
TEMPORARY DESIGN FREQUENCY	XXX
TEMPORARY UPSTREAM WATER SURFACE EL. (FT)	XXX
TEMPORARY DOWNSTREAM WATER SURFACE EL. (FT)	XXX

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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: 11/15/2017

DESIGNER/DRAFTER: AG

CHECKED BY: ADC

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-07.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **STAGING PLAN**

PROJECT NO. **060-161**

DRAWING NO. **S-07**

SHEET NO.

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**

CHECKED BY: **ADC**

SCALE IN FEET
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SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-08.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE:
SOIL BORING
LOCATION PLAN

PROJECT NO. **060-161**

DRAWING NO. **S-08**

SHEET NO.

(603) 437-1610 **New England Boring Contractors** Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nebc@neboring.com

Boring # B-1 **Project**: CJM – Test Drilling **Project #** C05521

Project Address: Dublin Hill Road over Bible Brook **City:** Haddam **State:** CT **Zip:**

Date Start: 8/30/16 **Date End:** 8/30/16 **Location:** See Plan

Casing: HW **Sampler:** S/S **Sampler:**
Size: 1 3/8 in. I.D.
Size: 4" Fall: 30 in.

G R O U N D W A T E R O B S E R V A T I O N

Date: 8/30/16	Depth: ~20'	Casing:	Stabilization Period

DP	S#	DEPTH	PEN	REC	BLOWS/6"	S/C	SAMPLE DESCRIPTION
-						3"'	ASPHALT
-	S-1	1' – 3'	24"	12"	11-9-8-6		Dry, medium dense, red-brown, FINE TO MEIDUM SAND, some gravel, some coarse sand, trace inorganic silt, occasional cobbles.
-							
-							
5'0"	S-2	5' – 7'	24"	12"	12-15-13-16		Dry, medium dense, red-brown, FINE TO MEIDUM SAND, some gravel, some coarse sand, trace inorganic silt, occasional cobbles.
-							
-							
-							
10'0"	S-3	10' – 12'	24"	12"	9-8-9-8		Dry, medium dense, red-brown, FINE TO MEIDUM SAND, some gravel, some coarse sand, trace inorganic silt, occasional cobbles.
-					Coring Times		
-					Min Per Foot	13'	Casing refusal at 13', began coring.
-	C-1	13' – 18'	60"	18"	4-3-2-2-3		Very weathered, very fractured GRANITE.
15'0"							
-							Percent Recovery = 30%
-							RQD – 0%
-	C-2	18' – 23'	60"	14"	1-1-2-2-2		Very weathered, very fractured GRANITE.
-							
20'0"							Percent Recovery = 23%
-							RQD – 0%
-							
-	C-3	23'- 28'	60"	34"	2-2-4-4-4		Very weathered, very fractured GRANITE.
-							
25'0"							Percent Recovery = 56%
-							RQD – 0%
-							
-	C-4	28' – 33'	60"	27"	2-3-2-3-3		Very weathered, very fractured GRANITE.
-							Percent Recovery = 45%
–						33'	RQD – 0%
-							Bottom of Exploration = 33'

Driller: Trent Roe **Helpers:** Orrin Cone **Inspector:** M. Brady

Remarks: Coring times = minutes per foot. Boring log not to scale.

S/#: Sample **PEN:** Penetration **REC:** Recovery **S/C:** Strata Change

(603) 437-1610 **New England Boring Contractors** Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nebc@neboring.com

Boring # B-2 **Project**: CJM – Test Drilling **Project #** C05521

Project Address: Dublin Hill Road over Bible Brook **City:** Haddam **State:** CT **Zip:**

Date Start: 8/31/16 **Date End:** 8/31/16 **Location:** See Plan

Casing: HW **Sampler:** S/S **Sampler:**
Size: 1 3/8 in. I.D.
Size: 4" Fall: 30 in.

G R O U N D W A T E R O B S E R V A T I O N

Date: 8/31/16	Depth: ~13'	Casing:	Stabilization Period

DP	S#	DEPTH	PEN	REC	BLOWS/6"	S/C	SAMPLE DESCRIPTION
-						4"'	ASPHALT
-	S-1	1' – 1'10"	24"	8"	22-50/4"		Dry, very dense, red-brown FINE TO MEDIUM SAND, little gravel, trace inorganic silt, occasional cobbles.
-							
-							
5'0"	S-2	5' – 7'	24"	14"	2-3-3-2		Dry, very dense, red-brown FINE TO MEDIUM SAND, little gravel, little silt, trace inorganic silt, occasional cobbles.
-							
-							
-							
10'0"	S-3	10' – 12'	24"	12"	5-5-6-6		Wet, medium dense, very dense, red-brown FINE TO MEDIUM SAND, little gravel, little silt, trace inorganic silt, trace wood, occasional cobbles.
-					Coring Times		
-					Min Per Foot	13'	Top of BEDROCK at 13'
-	C-1	13'6" – 18'6"	60"	48"	4-3-2-2-3		Casing and roller bit advance to 13'6" and began coring. Slightly fractured GRANITE with occasional weathered zones.
13'6"							
-							Percent Recovery = 80%
-							RQD – 70%
-							
-							
18'0"	C-2	18'6" – 23'6"	60"	59"	1-1-2-2-2		COMPETENT GRANITE
-							Percent Recovery = 98%
-						23'6"	RQD – 98%
-							Bottom of Exploration = 23'6"
-							
25'0"							
-							
-							
-							
–							
-							

Driller: Trent Roe **Helpers:** Orrin Cone **Inspector:** M. Brady

Remarks: Coring times = minutes per foot. Boring log not to scale.

S/#: Sample **PEN:** Penetration **REC:** Recovery **S/C:** Strata Change

(603) 437-1610 **New Hampshire Boring, Inc.** Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nhb@nhboring

Probes # Probes **Project**: CJM – Test Drilling **Project #** 05521

Project Address: Dublin Hill Road over Bible Brook **City:** Haddam **State: CT** **Zip:**

Date Start: 08/31/16 **Date End:** 08/31/16 **Location:** See Plan

Casing: HW . **Sampler:** S/S **Sampler:**
Size: 1 3/8 in. I.D.
Size: 4" Fall: 30 in.

G R O U N D W A T E R O B S E R V A T I O N

Date:	Depth:	Casing:	Stabilization Period

	P/#	Depth Refusal	Water	Auger Refusal	Notes:
-	P-1	17'	-	Yes	Auger Refusal, possible back of wall at 14'
-					
-	P-2	14'	-	Yes	Auger Refusal, possible back of wall at 13'
-					
-	P-3	12'3"	-	Yes	Auger Refusal, possible big rock or bedrock.
-					
-	P-4	14'9"	-	Yes	Auger Refusal
-					
-	P-5	15'9"	-	Yes	Auger Refusal
-					
-	P-6	13'3"	-	Yes	Auger Refusal
-					
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Drillers. Trent Roe **Helper:** Orrin Cone **Inspector:** M. Brady

Remarks:

S/#: Sample **PEN:** Penetration **REC:** Recovery **S/C:** Strata Change

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**
CHECKED BY: **ADC**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-09.dgn

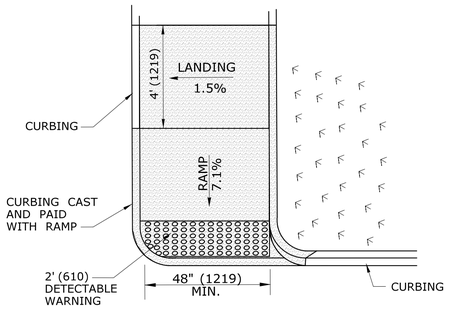
SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

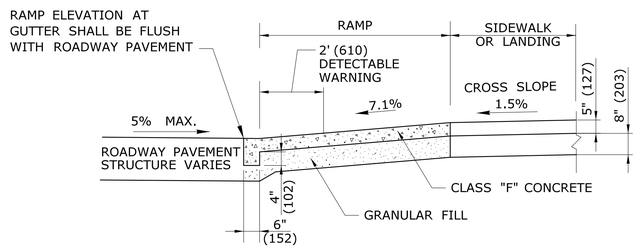
TOWN: **HADDAM**

DRAWING TITLE: **SOIL BORING DATA**

PROJECT NO. **060-161**
DRAWING NO. **S-09**
SHEET NO.



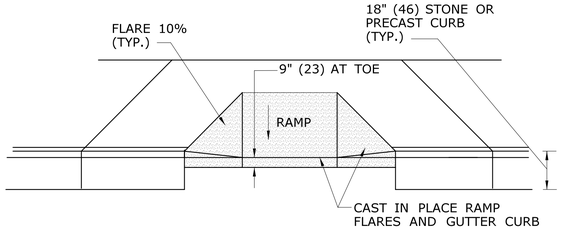
SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
NO / UTILITY GRASS STRIP
(TYPE 4a)



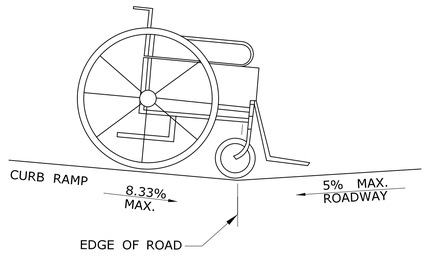
TYPICAL SECTION THRU SIDEWALK RAMP
SEE NOTE 2 AND 17

GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1 ON SHEET 4.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED ½" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN ¼" (6.4) AND ½" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON SHEET 4.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4'x 4'(1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m)x 5'(1.5m) WITH THE 5' (1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS ≥48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.



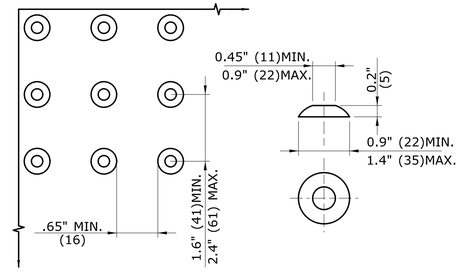
TYPICAL ELEVATION PERPENDICULAR SIDEWALK RAMP
WITH CAST IN PLACE GUTTER
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED



DETAIL 1
SEE GRADE CHANGE AT ROADWAY INTERFACE
SEE NOTE 1

NOTES:

1. RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE ENTRANCE AND EXIT.
2. SEE GENERAL NOTES.



DOME SPACING **DOME SECTION**

STANDARD DOME ON DETECTABLE WARNING TILES

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK
CHECKED BY: ADC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB..MSH.Br04682.060_161.S-10.dgn

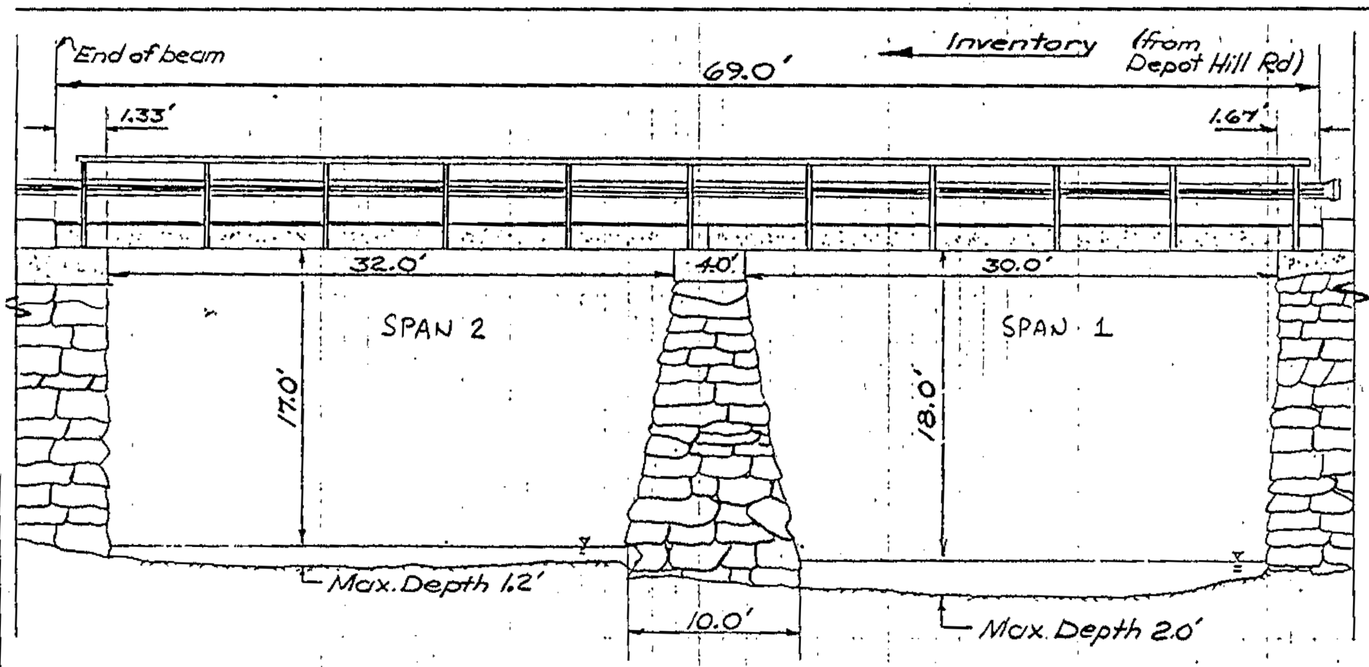
SIGNATURE/
BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

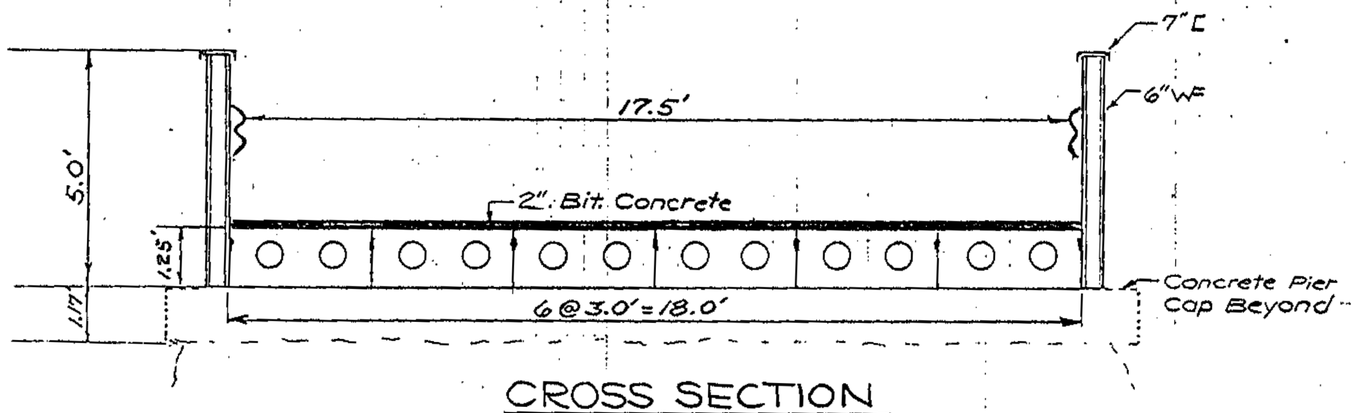
DRAWING TITLE:
SIDEWALK RAMP DETAILS

PROJECT NO. **060-161**
DRAWING NO. **S-10**
SHEET NO.



ELEVATION

FACING DOWN STREAM



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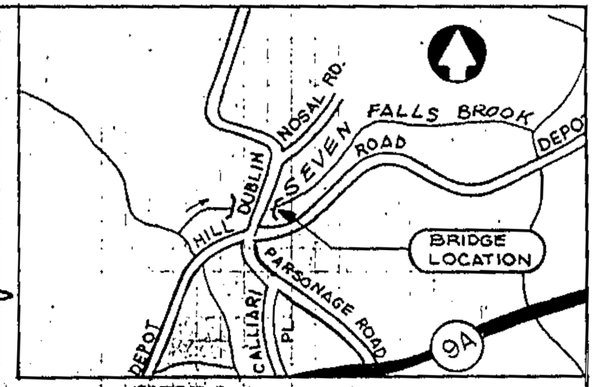
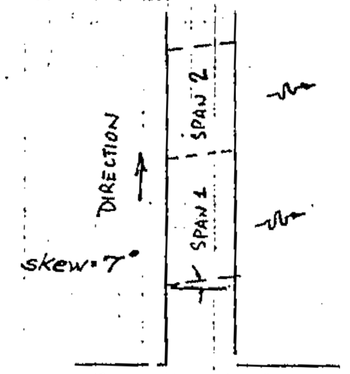


LOCATION PLAN



PLAN

CONN. DEPT. OF TRANSPORTATION

HADDAM
DUBLIN HILL ROAD
OVER
SEVEN FALLS BROOK

PLANS PREPARED BY
MACCHI ENGINEERS, HARTFORD CT.

DATE 5-16-80 | SHT. 1 OF 2

CDOT BR. NO. 04682

FOR REFERENCE ONLY

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-11.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: HADDAM

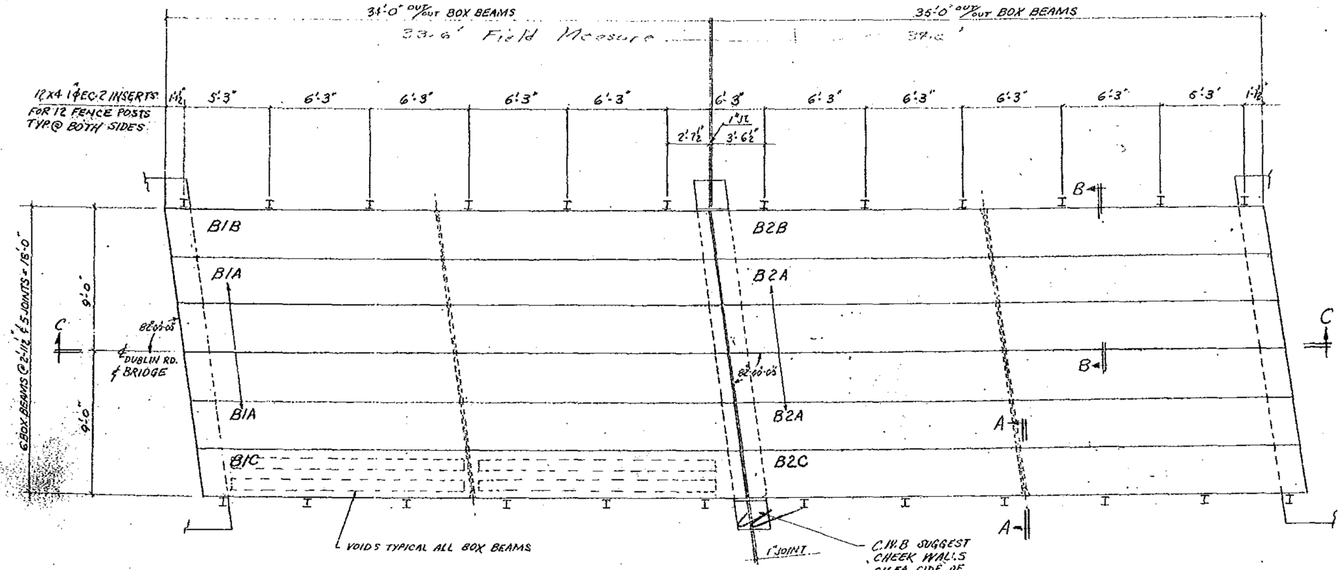
DRAWING TITLE:
EXISTING STRUCTURE
DRAWING - 1

PROJECT NO. 060-161

DRAWING NO. S-11

SHEET NO.

PLEASE INDICATE NORTH DIRECTION ?



PLAN

6.25
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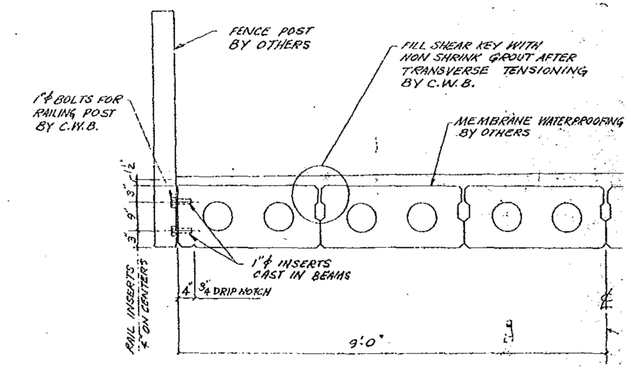
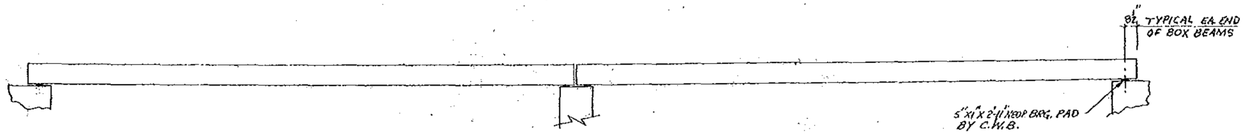
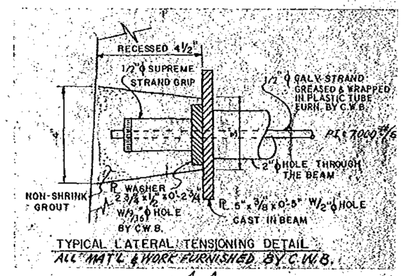


SECTION B-B



SECTION C-C



TYPICAL LATERAL TENSIONING DETAIL
ALL MAT'L & WORK FURNISHED BY C.W.B.

SECTION A-A

DESIGN LOADS
LOADS: H20-S16-44
WEARING SURFACE 25 P.S.F.
RAILING 22 P.S.F.

APPROVED 12/20
QT.O. R.

BRIDGE ON DUBLIN ROAD OVER BIBLE ROCK BROOK
HADDAM, CONN.

DATE 11/

SCALE

70% DESIGN SUBMISSION

FOR REFERENCE ONLY

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: 11/15/2017

DESIGNER/DRAFTER: JK

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-12.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

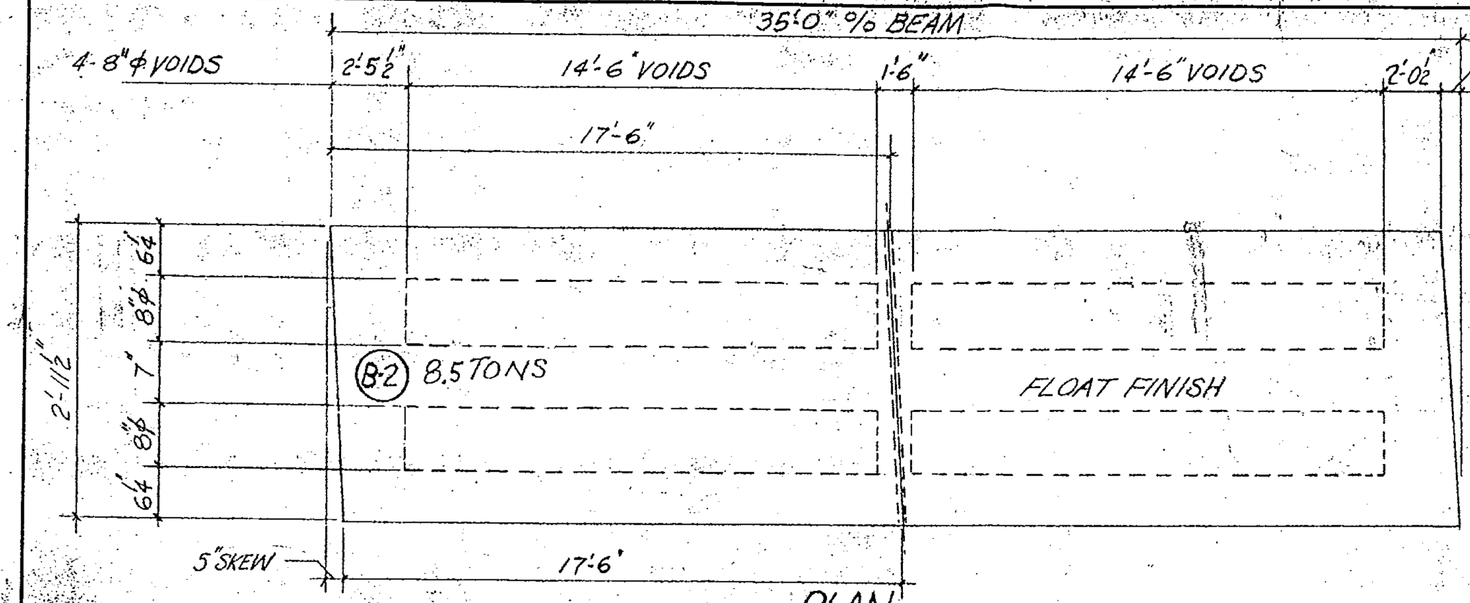
TOWN: **HADDAM**

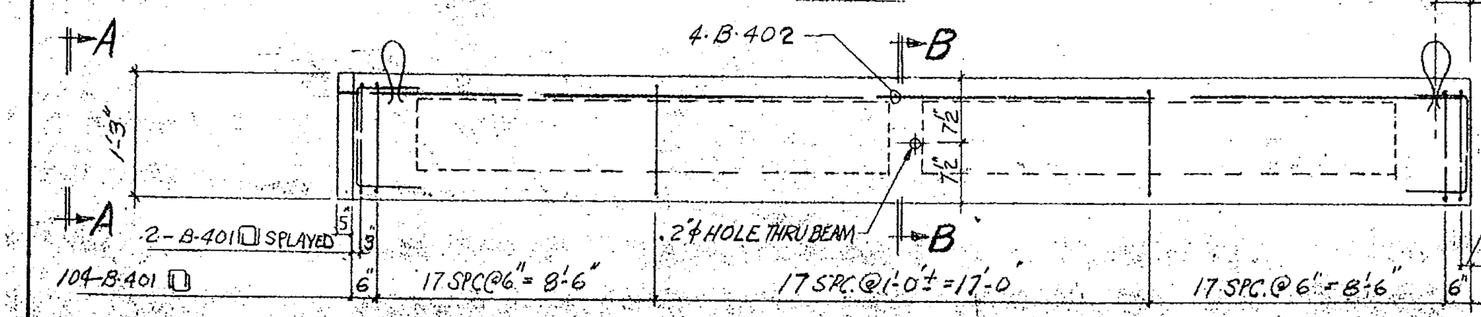
DRAWING TITLE:
EXISTING STRUCTURE
DRAWING - 2

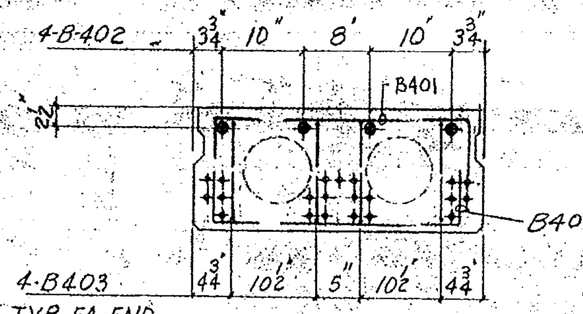
PROJECT NO. **060-161**

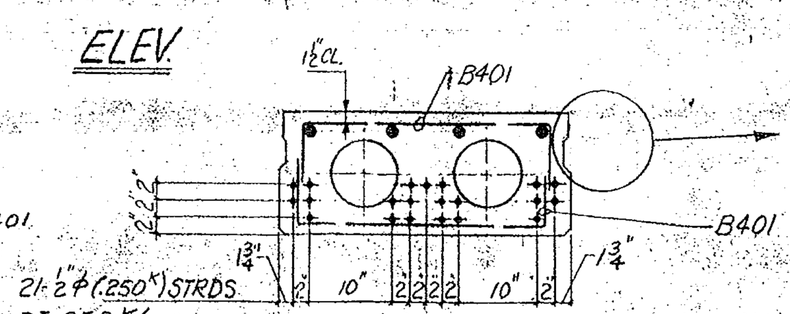
DRAWING NO. **S-12**

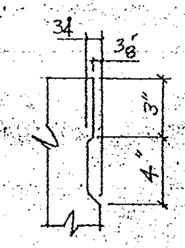
SHEET NO.











1'-3" LIFTING LOOPS
TYP. EA. END

B2
51

DESIGN OK. RT.

REINFORCING	
108-B401	
8-B403	
4-B402	

MISCELLANEOUS MAT'L
1-2"ϕ TUBE x 3'-0⅜"
4-8"ϕ VOIDS x 14'-6"

REVISIONS	
5.	
4.	
3.	
2.	
1.	

BLAKESLEE PRESTRESS
HAMDEN, CONN.

BRIDGE ON DUBLIN RD. OVER BIBLE ROCK BROOK, HADDAM, CONN.

BOX BEAM DETAIL

11-27-68	610-	51-2
TW. JB	8094	

WORK THIS SHT. WITH 51-260
AIR ENTRAINED 4½ - 6%
CONC. HARDROCK @ 155 P.S.F.
f'_c = 5000 @ 28 DAYS
f_{ci} = 4000 @ DESTRESS

FOR REFERENCE ONLY

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK
CHECKED BY: ADC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-13.dgn

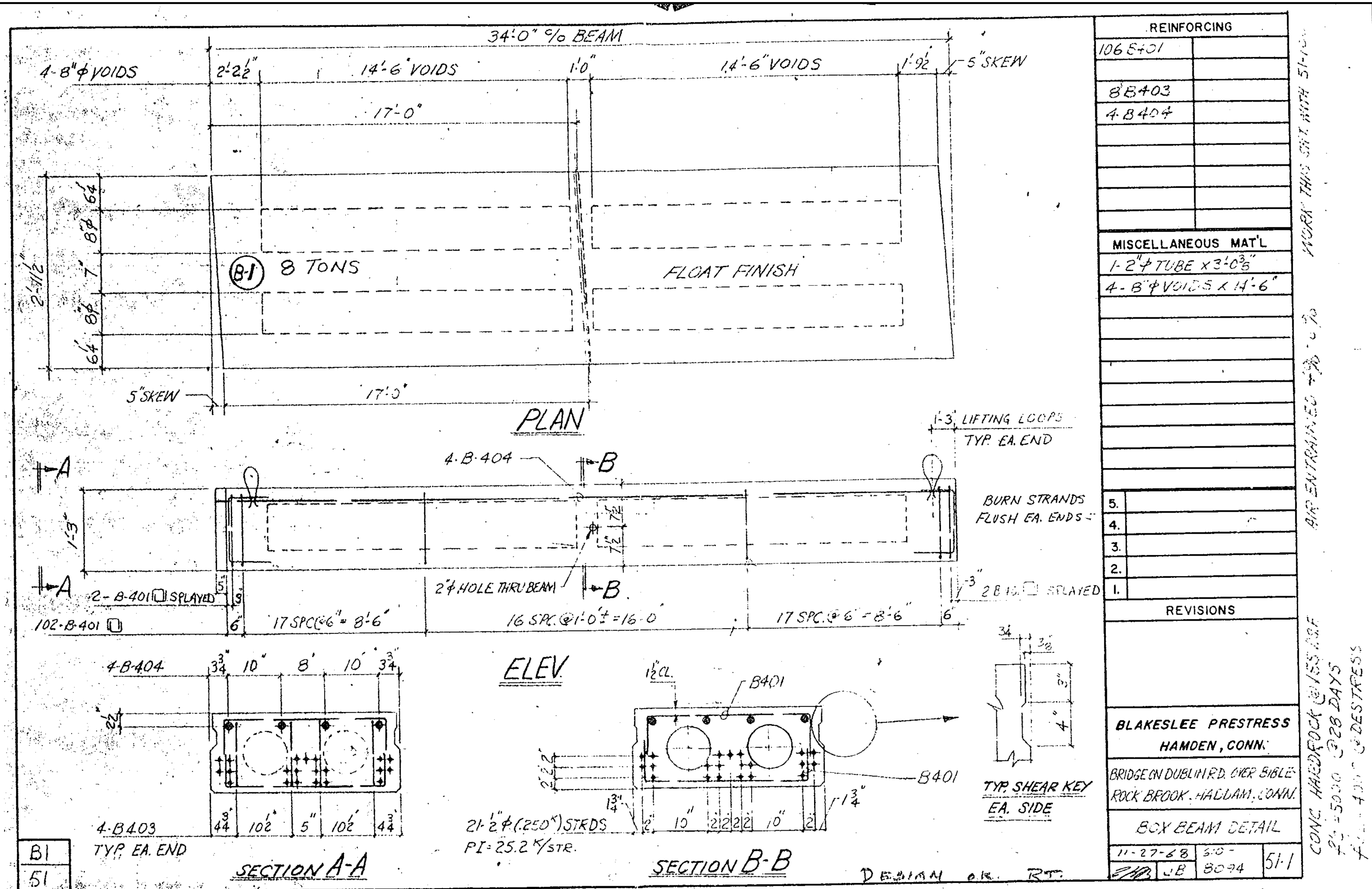
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: HADDAM

DRAWING TITLE:
EXISTING STRUCTURE
DRAWING - 3

PROJECT NO. 060-161
DRAWING NO. S-13
SHEET NO.



FOR REFERENCE ONLY

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: JK

CHECKED BY: ADC

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br04682_060_161_S-14.dgn

SIGNATURE/BLOCK:

PROJECT TITLE: BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

TOWN: HADDAM

DRAWING TITLE: EXISTING STRUCTURE DRAWING - 4

PROJECT NO. 060-161

DRAWING NO. S-14

SHEET NO.

05 - TRAFFIC
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
TR-01	INDEX OF TRAFFIC		
TR-02	DETOUR PLAN		
TR-03	MAINTENANCE AND PROTECTION OF TRAFFIC		
TR-04	SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS		
TR-05	SIGN FACE SHEET ALUMINUM D,RS,E,I,&M SERIES SIGNS TYPICAL DETAILS		

DESIGNED BY:
A.DICESARE ASSOCIATES, P.C.
BRIDGEPORT, CT

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: **AG**
CHECKED BY: **ADC**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_Br04682_060_161_TR-01.dgn

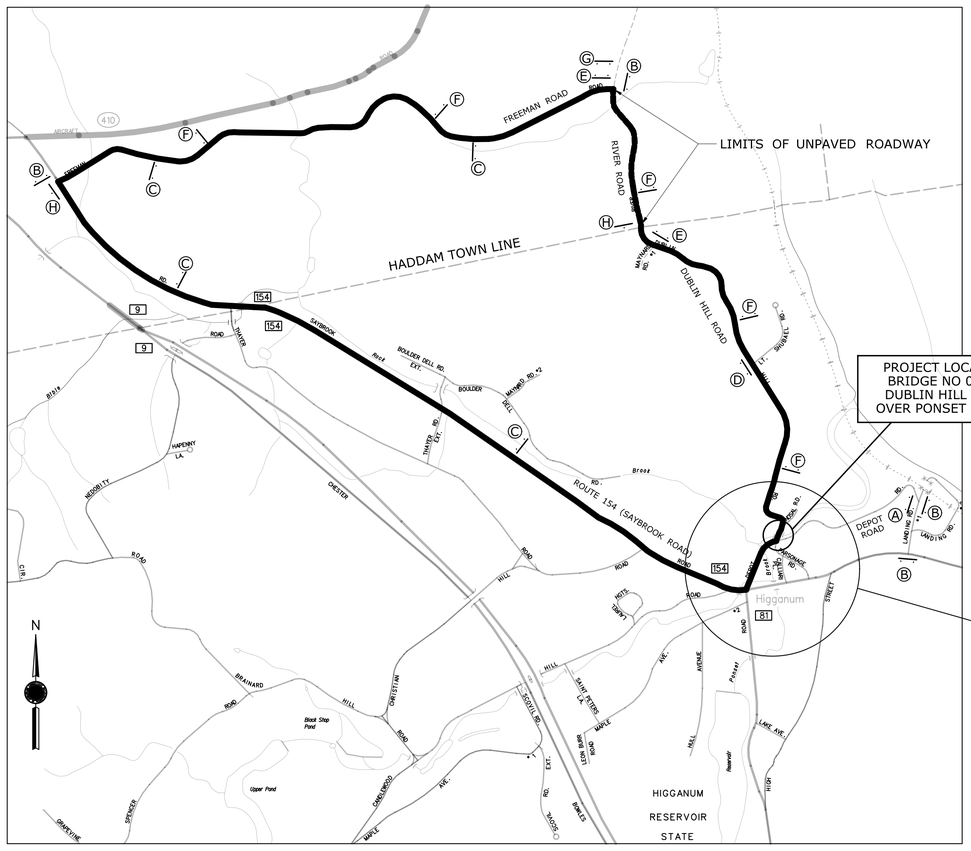
SIGNATURE/
BLOCK:

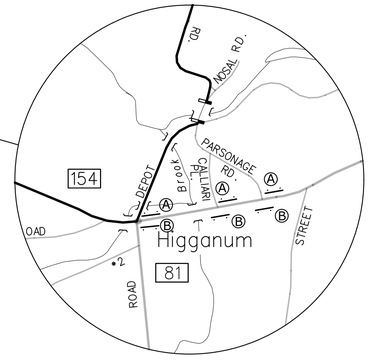
PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

DRAWING TITLE: **INDEX OF TRAFFIC**

PROJECT NO. **060-161**
DRAWING NO. **TR-01**
SHEET NO.





DETOUR LENGTH: 7.1 MILES

(A) 80-9081 — ROAD CLOSED TO THRU TRAFFIC

(B) 80-9707 DETOUR
80-9913 DUBLIN HILL ROAD
51-2631R

(C) 80-9707 DETOUR
80-9913 DUBLIN HILL ROAD
51-2625

(D) 80-9707 DETOUR
80-9913 SAYBROOK ROAD
51-2631R

(E) 80-9707 DETOUR
80-9913 SAYBROOK ROAD
51-2630L

(F) 80-9707 DETOUR
80-9913 SAYBROOK ROAD
51-2625

(G) 80-9077 — ROAD CLOSED 1.3 MILE AHEAD LOCAL TRAFFIC ONLY
80-9702 DETOUR

(H) 80-9708 — END DETOUR

NOTES:

1. THE DETOUR PLAN IS BEING PROVIDED AS MEANS TO ACCOMMODATE TRAFFIC DURING THE REPLACEMENT OF BRIDGE NO. 04682 OVER PONSET BROOK.
2. AS REQUIRED BY THE PROJECT, THE CONTRACTOR SHALL ACTIVATE THIS DETOUR TO CLOSE OFF DUBLIN HILL ROAD. FOR CONVENIENCE OF THE PUBLIC, THE CONTRACTOR IS ADVISED TO MAINTAIN TRAFFIC ON DUBLIN HILL ROAD AS LONG AS POSSIBLE IN ACCORDANCE WITH THE SPECIAL PROVISION 1.08 "PROSECUTION AND PROGRESS" AND ITEM NO. 0971001A - "MAINTENANCE AND PROTECTION OF TRAFFIC". THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWENTY ONE (21) DAYS IN ADVANCE PRIOR OF ACTIVATING THE DETOUR AND SHALL COORDINATE WITH OTHER PROJECTS IN THE AREA.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL, COMMERCIAL AND STATE PROPERTIES AT ALL TIMES.
4. TWO WEEKS PRIOR TO INITIATING DETOUR, INSTALL SIGN NO. 80-9079 ON DUBLIN HILL ROAD IN BOTH DIRECTIONS IN VICINITY OF BRIDGE. THESE SIGNS SHALL BE REMOVED ONCE THE DETOUR IS IN EFFECT.
5. CONTRACTOR IS TO NOTIFY TOWN OF HADDAM EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO INITIATING DETOUR.
6. CONTRACTOR IS TO NOTIFY THE TOWN OF HADDAM THREE WEEKS PRIOR TO INITIATING DETOUR.
7. THE CONTRACTOR SHALL INSTALL ALL DETOUR SIGNS SHOWN ON THIS PLAN PRIOR TO ACTIVATING THIS DETOUR AND SHALL COVER THE SIGNS WHENEVER THE DETOUR IS NOT IN USE. THE CONTRACTOR SHALL REMOVE ALL DETOUR SIGNS WHEN THE DETOUR IS NO LONGER NEEDED.
8. THE LOCATIONS OF SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
9. EXISTING SIGNS ARE TO BE COVERED OR RELOCATED AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN APPROPRIATE LOCATIONS AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY RELOCATED WITHIN THE WORK AREA. THIS WORK SHALL BE PAID FOR UNDER THE ITEM NO. 0971001A "MAINTENANCE AND PROTECTION OF TRAFFIC."
10. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED OR REVISED.
11. EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR TEMPORARILY COVERED DURING THE DETOUR, INCLUDING THOSE PAVEMENT MARKINGS OUTSIDE THE TRAVELWAY.
12. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL STATIC SIGNS AT THE LOCATIONS SPECIFIED BY THE ENGINEER.
13. BARRICADE WARNING LIGHTS HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS OR AS OTHERWISE NOTED.
14. ALL DETOUR SIGNS SHALL BE PAID UNDER ITEM NO. 1220027, "CONSTRUCTION SIGNS"; RELOCATION OF TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC) FOR DAILY ACCESS WILL BE INCLUDED IN THE GENERAL COST OF CONSTRUCTION AND WILL NOT BE PAID SEPARATELY.
15. ALL CONSTRUCTION SIGNS TO BE INSTALLED ON BREAKAWAY POSTS PER TRAFFIC STANDARD SHEETS.
16. TYPE DE-7 AND DE-7A DELINEATORS SHALL BE INSTALLED ON TPCBC AS SPECIFIED ON THE STANDARD SHEET "DELINEATION, DELINEATOR, AND OBJECT MARKER DETAILS".
17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 PROSECUTION AND PROGRESS AND ITEM NO. 0971001A "MAINTENANCE AND PROTECTION OF TRAFFIC".
18. ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.
19. EXISTING OR TEMPORARY ILLUMINATION SHALL REMAIN OPERATIONAL AT ALL TIMES.
20. UPON COMPLETION OF WORK ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE RE-ESTABLISHED AS ORDERED BY THE ENGINEER.

DETOUR PLAN
N.T.S.

LEGEND:
- SINGLE POST SIGN
- DOUBLE POST SIGN
- TEMPORARY PRECAST CONCRETE BARRIER CURB

SIGN QUANTITIES AND DESCRIPTION

DOT SIGN CAT. No.	QTY.	SIGN DESCRIPTION
80-9081	2	ROAD CLOSED
80-9707	19	DETOUR
80-9913	11	ROAD SIGN (DUBLIN HILL RD)
80-9913	8	ROAD SIGN (SAYBROOK ROAD)
51-2631R	8	ARROW RIGHT
51-2625	9	ARROW UP
51-2630L	2	ARROW LEFT

DOT SIGN CAT. No.	QTY.	SIGN DESCRIPTION
80-9077	1	ROAD CLOSED LOCAL TRAFFIC ONLY
80-9702	1	DETOUR RIGHT
80-9708	2	END DETOUR

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_Br04682_060_161_TR-02.dgn

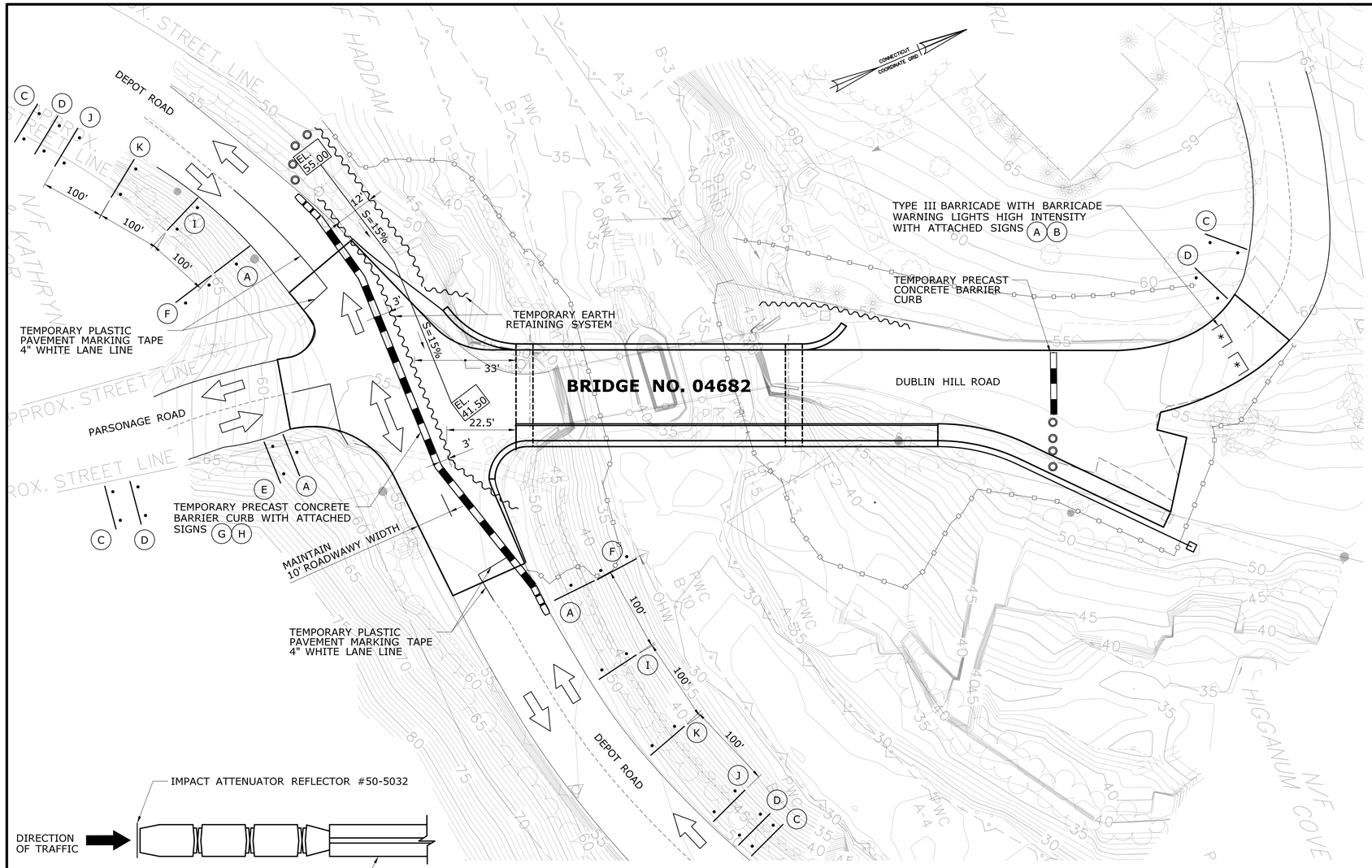
SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

CITY: **HADDAM**

DRAWING TITLE: **DETOUR PLAN**

PROJECT NO. **060-161**
DRAWING NO. **TR-02**
SHEET NO.



TYPICAL DETAIL

TEMPORARY IMPACT ATTENUATION SYSTEM (ABSORB 350 TL-3)

DETOUR PLAN AT BRIDGE

N.T.S.

LEGEND:

- TYPE III BARRICADE
- SINGLE POST SIGN
- DOUBLE POST SIGN
- * BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TEMPORARY PRECAST CONCRETE BARRIER CURB
- TRAFFIC DRUM

NOTES:

1. REFER TO DRAWING NO. TR-02 FOR ADDITIONAL SIGN DESIGNATIONS AND DESCRIPTIONS.
2. REFER TO DRAWING NO. TR-02 FOR ADDITIONAL NOTES.
3. CONTRACTOR SHALL MAINTAIN DRAINAGE ALONG DUBLIN HILL ROAD AND DEPOT ROAD DURING CONSTRUCTION OPERATIONS.
4. EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED, INCLUDING THOSE MARKINGS OUTSIDE THE TRAVELWAY.
5. THE APPROPRIATE TYPE DE-7C DELINEATORS SHALL BE INSTALLED ON THE TPCBC AS SPECIFIED ON THE TYPICAL DETAIL SHEET "TYPICAL DELINEATOR AND OBJECT MARKER DETAILS."
6. EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORIST. SOME SIGNS MAY HAVE TO BE TEMPORARILY RELOCATED IN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC."
7. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED OR REVISED TO MEET FIELD CONDITIONS.
8. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
9. TEMPORARY SIGNS SHALL BE MOUNTED ON POSTS WHEN FEASIBLE.
10. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PLASTIC PAVEMENT MARKING TAPE, UNLESS OTHERWISE NOTED ON THE PLANS.
11. ALL SIGNS USED FOR CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 1220027 - CONSTRUCTION SIGNS.

A 31-0553 STOP

B 80-9080 ROAD CLOSED

C 80-1608 CONSTRUCTION AHEAD / ROAD USE RESTRICTED / STATE LIABILITY LIMITED / GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION

D 80-9079 DUBLIN HILL RD / CLOSED / TO THRU TRAFFIC / FROM 00/00 TO 00/00

E 80-9707 DETOUR / 80-9913 DUBLIN HILL ROAD / 51-2630L

F 80-9707 DETOUR / 80-9913 DUBLIN HILL ROAD / 51-2625

G 80-9082 BRIDGE OUT

H 31-1119 DO NOT ENTER

I 80-9711 WORK AREA BE PREPARED TO STOP

J 80-9602 ROAD WORK AHEAD

K 80-9834 ONE LANE ROAD AHEAD

SIGN QUANTITIES AND DESCRIPTION

DOT SIGN CAT. No.	QTY.	SIGN DESCRIPTION
31-0553	4	STOP
80-9080	1	ROAD CLOSED
80-1608	4	CONSTRUCTION AHEAD
80-9079	4	CLOSED TO THRU TRAFFIC FROM
80-9707	3	DETOUR
80-9913	3	ROAD SIGN (DUBLIN HILL ROAD)
51-2630L	1	LEFT ARROW
51-2625	2	UP ARROW
31-1119	1	DO NOT ENTER
80-9711	1	WORK AREA
80-9602	1	ROAD WORK AREA
80-9834	1	ONE LANE ROAD AHEAD

70% DESIGN SUBMISSION

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Plotted Date: 11/15/2017

DESIGNER/DRAFTER: AG
CHECKED BY: ADC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_Br04682_060_161_TR-03.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

CITY: **HADDAM**

DRAWING TITLE:
MAINTENANCE AND PROTECTION OF TRAFFIC

PROJECT NO. **060-161**
DRAWING NO. **TR-03**
SHEET NO.

R1 - SERIES

R1-1 *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.31	24	31-0536	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2 *

LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.90	36	31-0523	1	.080
6.77	48	31-0522	2	.100
10.83	60	31-0528	2	.100

R1-3 *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2B	.100

R2-4a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32	48X96	31-5510	2	.125

R3 - SERIES

R3-1

31-1604 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604		.080
6.25	30X30	31-1617	1	.080
5.00	30X24	31-1618		.080
9.00	36X36	31-1627	2	.080
7.50	36X30	31-1628		.080

R3-2

31-1603 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603		.080
6.25	30X30	31-1619	1	.080
5.00	30X24	31-1620		.080
9.00	36X36	31-1629	2	.080
7.50	36X30	31-1630		.080

R3-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	2	.080

R3-4

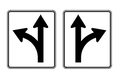
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	2	.080

R3-5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0135L	1	.080
4.00	24X24	31-0138R	1	.080
7.50	30X36	31-0183L	1	.080
7.50	30X36	31-0184R	1	.080

R3-6



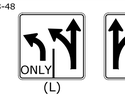
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0157L	1	.080
7.50	30X36	31-0158R	1	.080

R3-7L

R3-7R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117L	1	.080
6.25	30X30	31-0118R	1	.080
9.00	36X36	31-0120L	2	.080
9.00	36X36	31-0123R	2	.080

R3-48

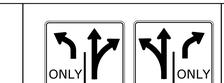


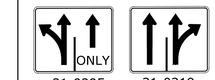
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0262L	1	.080
6.25	30X30	31-0261R	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0125	1	.080
6.25	30X30	31-0165	1	.080
7.50	30X36	31-0175	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-0290	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

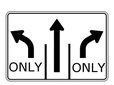


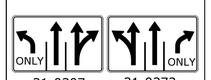


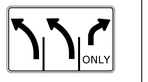
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

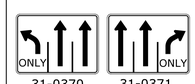
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8b









AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100
10.00	48X30		2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

LEFT LANE MUST TURN LEFT

RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0121L	2	.100
20.00	48X60	31-0122R	2	.100

R4 - SERIES

R4-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1504	2	.100

R4-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2	.100

R4-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1 *

LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	2	.080
16.00	48X48	31-1121	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-1775	2	.100

R5-1a *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1790	1	.080
20.00	48X60	31-1792	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.00	54X72	31-1719	2	.125

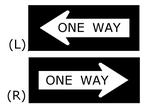
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-1702	1	.080

R5-10c

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

R6 - SERIES

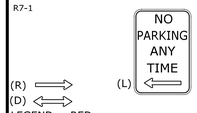
R6-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1188L	1	.080
3.00	36X12	31-1177R	1	.080
6.75	54X18	31-1189L	2	.100
6.75	54X18	31-1178R	2	.100

R7 - SERIES

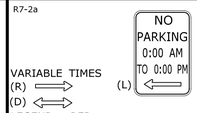
R7-1



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

R7-2a



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R8 - SERIES

R8-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-0670	2	.100

R9 - SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.50	66X60	31-1733	2	.125

R10 - SERIES

R10-6

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080
9.00	36X36	31-0816	2	.080

R10-11b

OVERHEAD MOUNTED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0823		.080
7.50	30X36	31-0847	1	.080
20.00	48X60	31-0849	2	.100

R11 - SERIES

R11-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2	.100

RETROREFLECTIVE STRIP

*

LEGEND - N/A
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	4X36	31-5003	1	.080
2.00	4X72	31-5004	1	.080
2.67	4X96	31-5005	1	.080

R10-10L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0842		.080
7.50	30X36	31-0852	1	.080

R10-11a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0830	1	.080
12.00	36X48	31-0819	2	.100

R10-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080
12.00	36X48	31-0807	2	.100

DO NOT BLOCK DRIVEWAY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0803	1	.080
12.00	36X48	31-0804	2	.100

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS SHALL BE 4 LBS./FT.
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION
7	6-2017	REVISED POST REQUIREMENTS.
6	12-2016	REMOVED HANDICAPPED SIGN DETAIL.
5	6-2015	REVISED DRAWING NO.
4	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
3	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: A. S. MERMELSTEIN
CHECKED BY: B. A. SCHILLING
Plotted: 11/15/2017

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_MSH_Br04682_060_161_TR-04.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT BRIDGE NO. 04682 DUBLIN HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

PROJECT NO. **060-161**

DRAWING NO. **TR-04**

DRAWING TITLE: **SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS** (X)

SHEET NO.

D1 - SERIES

D1-1

51-5202 Variable →

D1-2

51-5203 Variable / Variable →

VARIABLE LEGEND & ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	48X12	51-2010	2	.100
4.17	60X12	51-5202	2	.100
8.33	60X24	51-5203	2	.100

D3 - SERIES

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	60X12	51-2011	2	.100
6.00	72X12	51-2012	2	.125
7.00	84X12	51-2013	2	.125

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	48X18	51-2004	2	.100
7.50	60X18	51-2001	2	.100
9.00	72X18	51-2002	2	.125
10.50	84X18	51-2003	2	.125

D4 - SERIES

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6006	1	.080
7.50	30X36	51-6007	1	.080
12.00	36X48	51-6008	2	.100

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6033	1	.080
7.50	30X36	51-6034	1	.080
12.00	36X48	51-6035	2	.100

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X36	51-6044	1	.080
7.50	30X36	51-6045	1	.080
12.00	36X48	51-6046	2	.100

NOTICE
THIS PARKING AREA PATROLLED

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
15.00	60X36	51-5937	2	.100

PARK AT YOUR OWN RISK
REMOVE KEYS AND LOCK CAR
NOT RESPONSIBLE FOR
PROPERTY LOST OR STOLEN

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.50	36X18	51-6037	1	.080

D5 - SERIES

D5-2b

REST AREA ↗

LEGEND - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
42.25	78X78	51-6901	2	.125

SERVICE PLAZA ↗

LEGEND - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
39.00	72X78	51-6158	2	.125

D7 - SERIES

D-7

51-6802 Variable →

51-6803 Variable / Variable →

W or W/O ARROW
VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-6802	2	.100
8.33	60X20	51-6803	2	.100

D9 - SERIES

D9-2

H

** FOR ARROW SUBPLATES USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6788	1	.080

D9-3a

** FOR ARROW SUBPLATES USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6762	1	.080

51-6705 DIESEL →
51-6706 FOOD →
51-6707 PHONE →
51-6708 GAS →
51-6709 LODGING →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		2	.080

D10 - SERIES

D10-4

NORTH / (95) / MILE / 000

CARDINAL DIRECTION, SHIELD AND NUMERALS ARE VARIABLE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	18X54	51-5307	1	.080

RECREATIONAL RS- SERIES

RS-054

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6873	1	.080

RS-117

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-7872	1	.080

51-2705

51-2706 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2705		.080
2.19	21X15	51-2706		.080

E5 - SERIES

E5-1a

EXIT ↖ (L) EXIT ↗ (R)

FOR USE AT "NO NUMBERED" EXITS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
		(L or R)		
30.00	72X60	51-6150	2	.125

E5-1a

EXIT 00 ↖ (L) EXIT 00 ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
		(L or R)		
32.50	78X60	51-6124R	2	.125
32.50	78X60	51-6125L	2	.125

E5-1a

EXIT 00 B ↖ (L) EXIT 00 B ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
		(L or R)		
45.00	108X60	51-6126R	2	.125
45.00	108X60	51-6127L	2	.125

E5-1a

EXIT 00 A-B ↖ (L) EXIT 00 A-B ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
		(L or R)		
57.50	138X60	51-6128R	2	.125
57.50	138X60	51-6129L	2	.125

I - SERIES

I-3

(Variable) River

VARIABLE: RIVER, BROOK, CREEK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	18X12	51-2009	1	.080
4.50	36X18	51-2007	2	.080
12.00	48X36	51-2051	2	.100

(Town Name) (INCORPORATED OR SETTLED) (DATE) TOWN LINE

VARIABLE: TOWN / CITY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	40X27	51-2020	2	.080

(Name) Connecticut

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	51-2040	2	.100

I-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-1448	1	.080
6.25	30X30	51-1445	1	.080

INCIDENT MANAGEMENT

N 0 .0 | N 0 0 .0 | N 0 0 0 .0

CARDINAL DIRECTION VARIABLE - N, S, E, W

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	12X36	51-5103	1	.080
4.00	12X48	51-5104	1	.080
5.00	12X60	51-5105	1	.080

SYMBOL - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	51-5943	1	.080

51-6504 Variable

51-6505 Variable / Variable

TO BE SUBMOUNTED W/ 51-5943
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	51-6504		.080
1.50	18X12	51-6505		.080

M1 - SERIES

M1-1

INTERSTATE CONNECTICUT 00 — 51-6662 51-6666 VARIABLE: 1 or 2 DIGITS

INTERSTATE CONNECTICUT 000 — 51-6663 51-6667 VARIABLE: 3 DIGITS

LEGEND - WHITE
BACKGROUND - RED & BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.20	24X24	51-6662	1	.080
3.99	30X24	51-6663	1	.080
7.20	36X36	51-6666	2	.080
8.99	45X36	51-6667	2	.100

M1-4

00 — 51-6615 51-6635 VARIABLE: 1 or 2 DIGITS

000 — 51-6644 51-6645 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6615	1	.080
5.00	30X24	51-6644	1	.080
9.00	36X36	51-6635	2	.080
11.25	45X36	51-6645	2	.100

M1-5

00 — 51-6616 51-6636 VARIABLE: 1 or 2 DIGITS

000 — 51-6647 51-6646 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6616	1	.080
5.00	30X24	51-6647	1	.080
9.00	36X36	51-6636	2	.080
11.25	45X36	51-6646	2	.100

M2 - SERIES

M2-1

JCT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-6640	(1)	.080
2.19	21X15	51-6610	(2)	.080

M3 - SERIES

M3-1

NORTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6651	(1)	.080
2.00	24X12	51-6611	(2)	.080
4.50	36X18	51-6655	(1)	.080
4.50	36X18	51-6625	(2)	.080

M3-4

WEST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6654	(1)	.080
2.00	24X12	51-6614	(2)	.080
4.50	36X18	51-6658	(1)	.080
4.50	36X18	51-6628	(2)	.080

M3-2

EAST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6652	(1)	.080
2.00	24X12	51-6612	(2)	.080
4.50	36X18	51-6656	(1)	.080
4.50	36X18	51-6626	(2)	.080

M3-3

SOUTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6653	(1)	.080
2.00	24X12	51-6613	(2)	.080
4.50	36X18	51-6657	(1)	.080
4.50	36X18	51-6627	(2)	.080

M4 - SERIES

M4-5

TO

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6650	(1)	.080
2.00	24X12	51-6620	(2)	.080

M5 - SERIES

M5-1

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2690L	(1)	.080
2.19	21X15	51-2691R	(1)	.080
2.19	21X15	51-2630L	(2)	.080
2.19	21X15	51-2631R	(2)	.080

M5-2

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2692L	(1)	.080
2.19	21X15	51-2693R	(1)	.080
2.19	21X15	51-2632L	(2)	.080
2.19	21X15	51-2633R	(2)	.080

M6 - SERIES

M6-1

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2686	(1)	.080
2.19	21X15	51-2626	(2)	.080

M6-2

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688L	(1)	.080
2.19	21X15	51-2689R	(1)	.080
2.19	21X15	51-2628L	(2)	.080
2.19	21X15	51-2629R	(2)	.080
4.89	32X22	51-2609R	(2)	.080

M6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2685	(1)	.080
2.19	21X15	51-2625	(2)	.080

M6-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2697	(1)	.080
2.19	21X15	51-2627	(2)	.080

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS SHALL BE 4 LBS./FT.
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
D7, RS BACKGROUND-BROWN, LEGEND-WHITE
D9 BACKGROUND-BLUE, LEGEND-WHITE
ALL OTHER D-SERIES AS NOTED

E - SERIES
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)

M2 - M6 SERIES
(1) BACKGROUND-BLUE, LEGEND-WHITE
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE IV RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.

70% DESIGN SUBMISSION

REV.	DATE	REVISION DESCRIPTION
5	6-2017	REVISED POST REQUIREMENTS.
4	10-2016	ADDED SIGN TO I-3 SERIES.
3	6-2015	REVISED DRAWING TITLE AND NO.
2	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: A. S. MERMELSTEIN
CHECKED BY: B. A. SCHILLING
Plotted: 11/15/2017

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_MSH_Br04682_060_161_TR-05.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
BRIDGE REPLACEMENT
BRIDGE NO. 04682 DUBLIN
HILL ROAD OVER PONSET BROOK

TOWN: **HADDAM**

PROJECT NO. **060-161**

DRAWING NO. **TR-05**

DRAWING TITLE: **SIGN FACE SHEET ALUMINUM D,RS,E,I,&M SERIES SIGNS TYPICAL DETAILS**

SHEET NO. (Z)