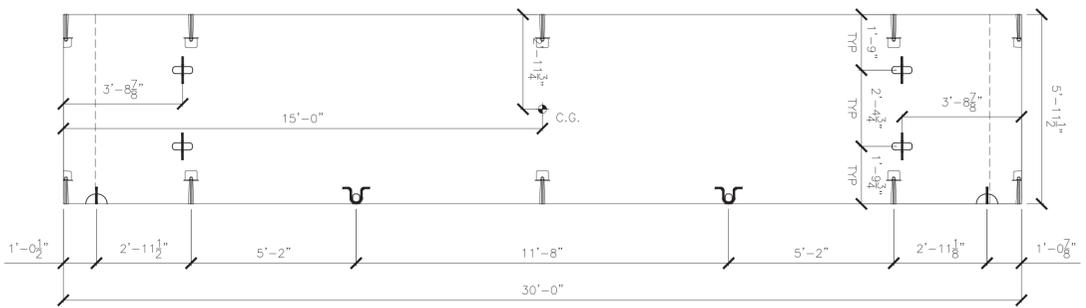
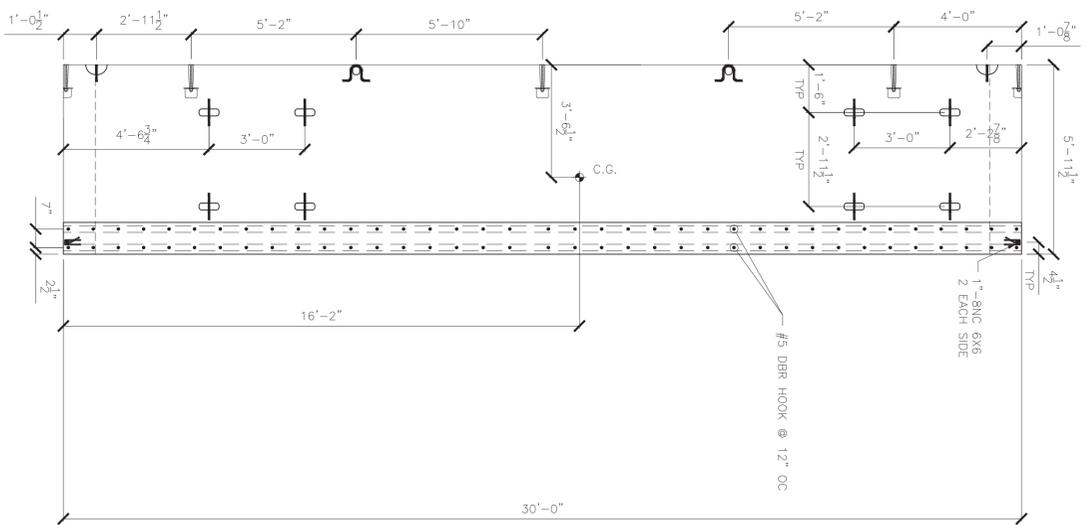


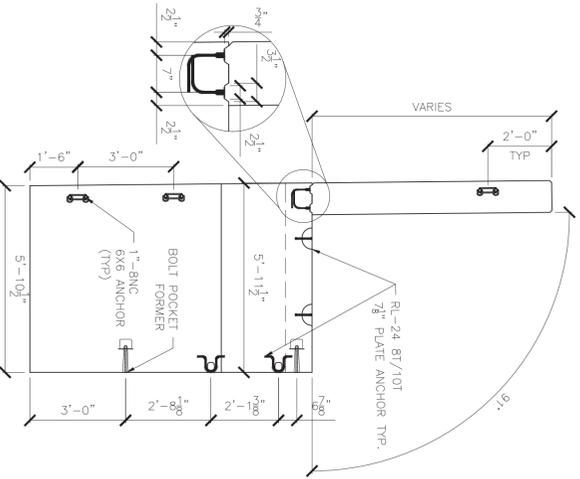
1 AC-1 PLAN VIEW
S3.0 3/8" = 1'-0"



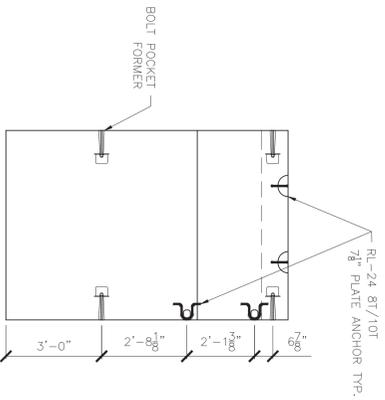
2 AC-2 PLAN VIEW
S3.0 3/8" = 1'-0"



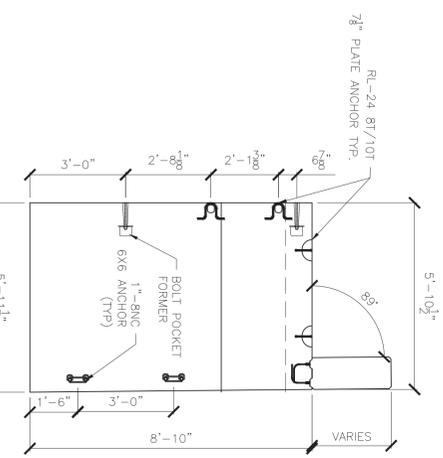
3 AC-3 PLAN VIEW
S3.0 3/8" = 1'-0"



4 AC-1 ELEVATION VIEW
S3.0



5 AC-2 ELEVATION VIEW
S3.0 3/8" = 1'-0"



6 AC-3 ELEVATION VIEW
S3.0 3/8" = 1'-0"

AC-1: 1 REQ'D
UNIT WEIGHT AND VOLUME:
CULVERT: 9.24 CY (37.422#)
HEADWALL: 2.79 CY (11,300#)
TOTAL WEIGHT: 48,722#

AC-2: 22 REQ'D
UNIT WEIGHT AND VOLUME:
CULVERT: 9.24 CY (37.422#)
TOTAL WEIGHT: 37,422#

AC-3: 1 REQ'D
UNIT WEIGHT AND VOLUME:
CULVERT: 9.24 CY (37.422#)
HEADWALL: 2.71 CY (11,016#)
TOTAL WEIGHT: 48,438#

PREPARED FOR:



**VT 100 Road Culvert
Duxbury, Vermont**

Culvert Plans And Elevations

Project No. 7347

Date: 6/29/16

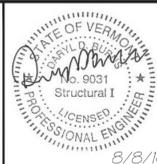
Designed by: DELTA

Drawn by: GSC

Scale: AS SHOWN

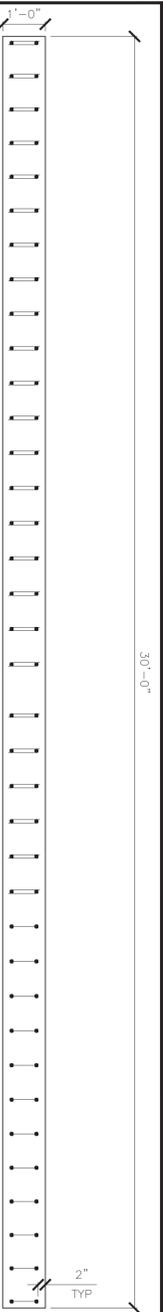
Checked by:

DESIGNED AND DETAILED BY:



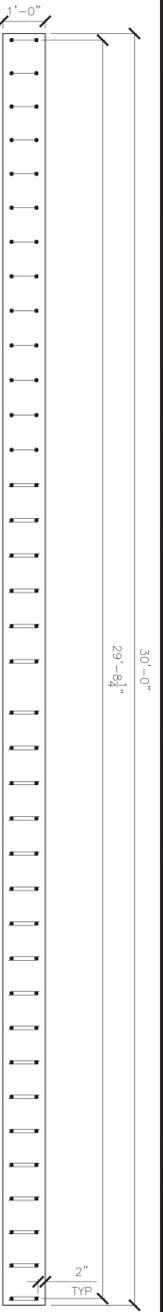
No.	Date	Revision	By

DWG NO.
S3.0



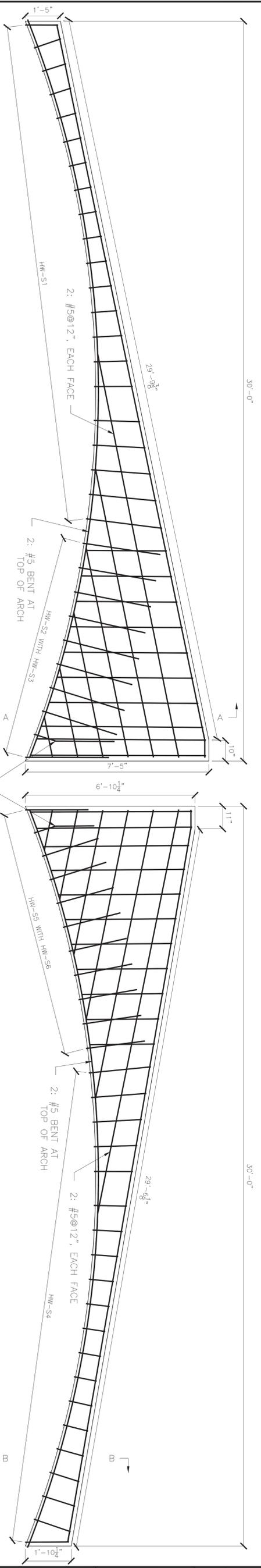
1 INLET HEAD WALL PLAN VIEW
S4.0 1/2" = 1'-0"

HW2 ONE REQUIRED
EACH PIECE WEIGHS: 11,300 LB
HEAD WALL: 2:7/8 C'



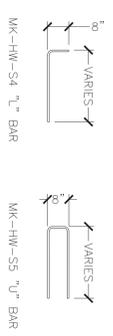
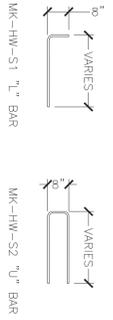
2 OUTLET HEAD WALL PLAN VIEW
S4.0 1/2" = 1'-0"

HW1 ONE REQUIRED
EACH PIECE WEIGHS: 11,016 LB
HEAD WALL: 2:1/2 C'



3 INLET HEAD WALL ELEVATION VIEW (HW2)
S4.0 1/2" = 1'-0"

4 OUTLET HEAD WALL ELEVATION VIEW (HW1)
S4.0 1/2" = 1'-0"



INLET HW2 REINFORCING SCHEDULE

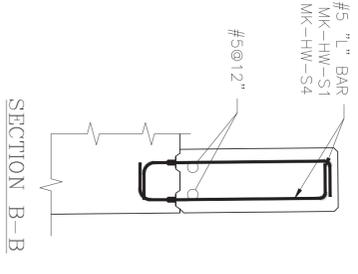
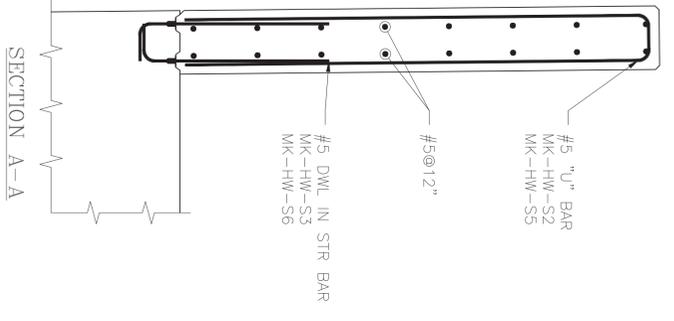
BAR MARK	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS
MK-HW-S1	BENT	#5@10"	1'-4 1/8" TO 3'-7 1/2"	21
MK-HW-S2	BENT	#5@10"	6'-1 1/2" TO 14'-9 1/4"	10
MK-HW-S3	STRAIGHT DWL IN	#5	3'-2"	20

ALL REBAR TO BE EPOXY COATED

OUTLET HW1 REINFORCING SCHEDULE

BAR MARK	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS
MK-HW-S4	BENT	#5@10"	1'-6 1/2" TO 3'-0 1/2"	27
MK-HW-S5	BENT	#5@10"	5'-8 1/2" TO 13'-7 1/4"	11
MK-HW-S6	STRAIGHT DWL IN	#5	3'-2"	22

ALL REBAR TO BE EPOXY COATED



No.	Date	Revision	By



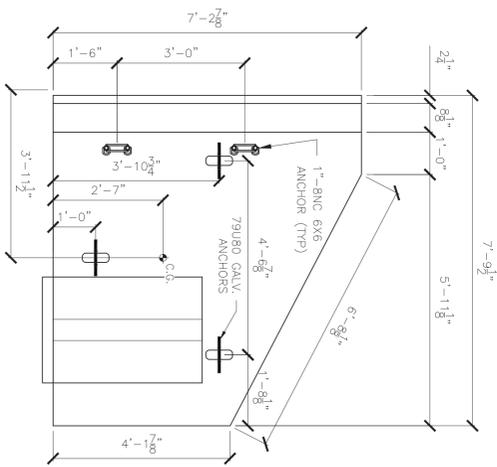
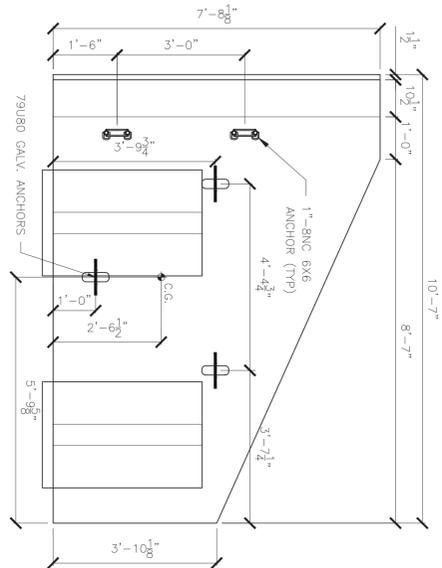
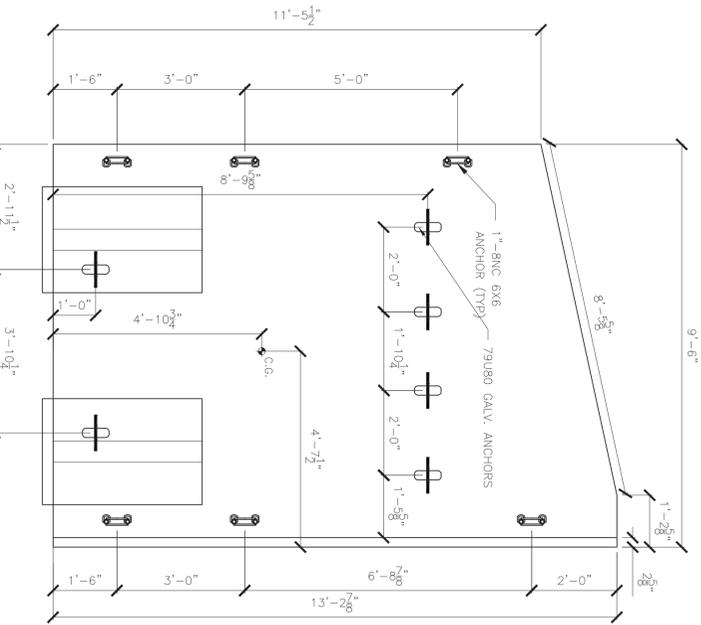
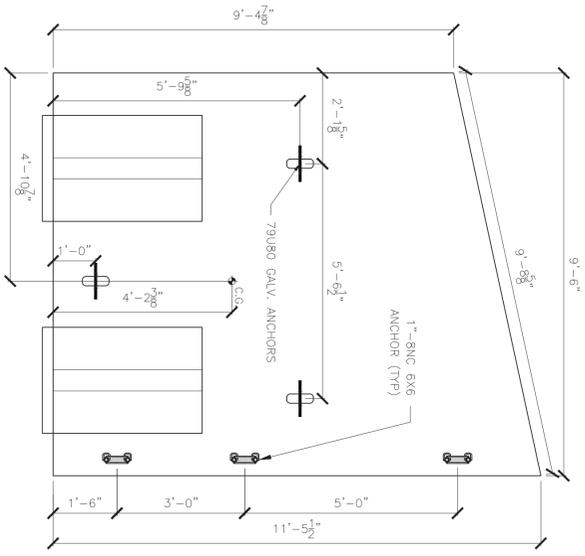
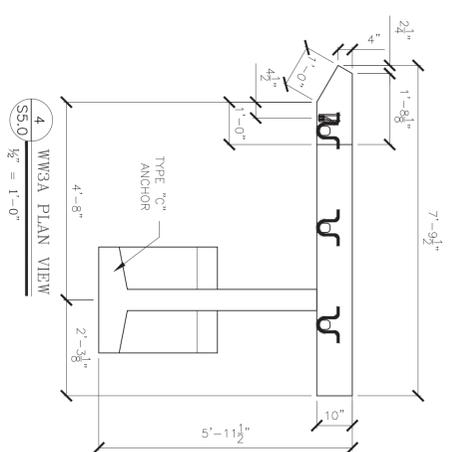
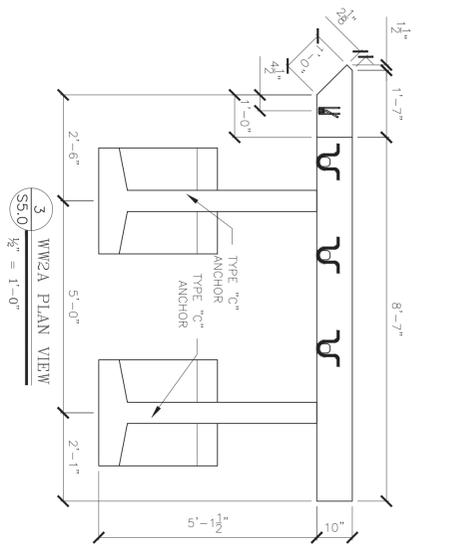
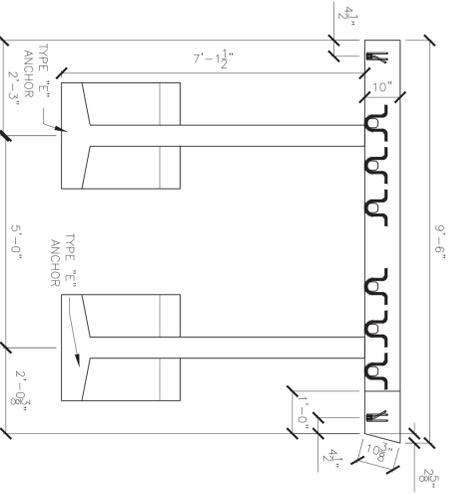
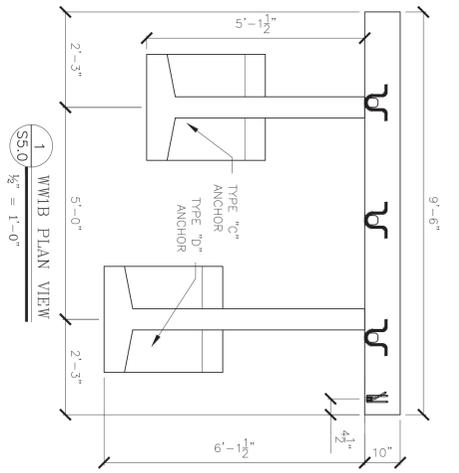
DESIGNED AND DETAILED BY:
DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS
860 HOOPER ROAD, ENDWELL, NY 13760-1564
TEL: (607) 231-6600 FAX: (607) 231-6650

VT 100 Road Culvert
Duxbury, Vermont
Head Wall Details

Project No. 7347
Date: 6/29/16
Designed by: DELTA
Drawn by: GSC
Checked by: _____
Scale: AS SHOWN

PREPARED FOR:
MICHIE
MICHIE CORPORATION, INC.
173 BUXTON INDUSTRIAL DRIVE-PO BOX 870
HENNIKER, NH 03242
PHONE: 603-428-3218
FAX: 603-428-7426

DWG NO.
S4.0



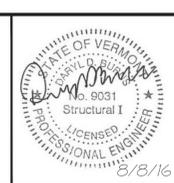
1 WW1B REQUIRED
 UNIT WEIGHT AND VOLUME:
 TOTAL: 16,478#
 WALL: (298 CY)
 D ANCHOR: 0.58 CY
 C ANCHOR: 0.51 CY

1 WW1A REQUIRED
 UNIT WEIGHT AND VOLUME:
 TOTAL: 19,619#
 WALL: (356 CY)
 E ANCHOR: 0.84 CY
 C ANCHOR: 0.84 CY

1 WW2A REQUIRED
 UNIT WEIGHT AND VOLUME:
 TOTAL: 11,888#
 WALL: (87 CY)
 C ANCHOR: 0.51 CY

1 WW3A REQUIRED
 UNIT WEIGHT AND VOLUME:
 TOTAL: 7,540#
 WALL: (135 CY)
 C ANCHOR: 0.51 CY

No.	Date	Revision	By



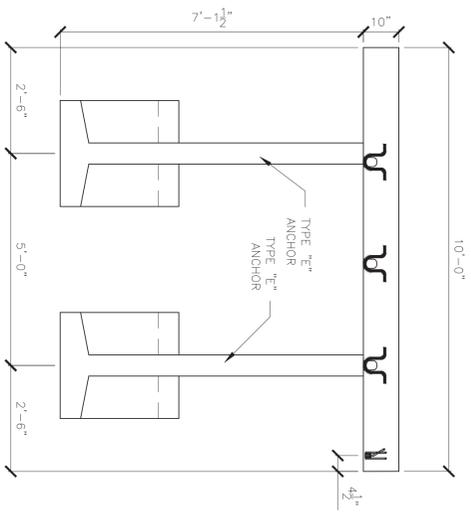
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 860 HOOPER ROAD, ENDWELL, NY 13760-1564
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VT 100 Road Culvert
Duxbury, Vermont
Wingwall Details

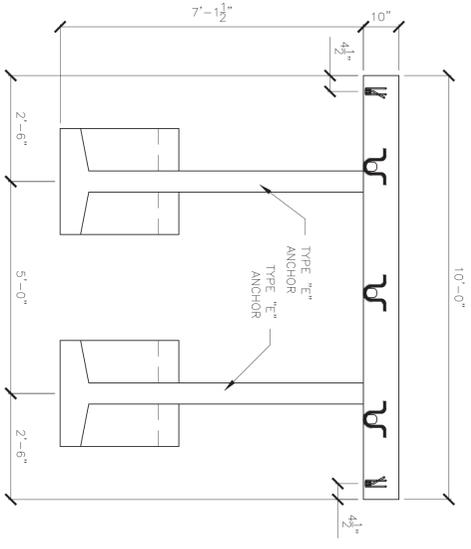
Project No. 7347
 Date: 6/29/16
 Designed by: DELTA
 Drawn by: GSC
 Scale: AS SHOWN
 Checked by:

PREPARED FOR:
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 MICHIE CORPORATION, INC.
 173 BUXTON INDUSTRIAL DRIVE-PO BOX 870
 HENNIKER, NH 03242
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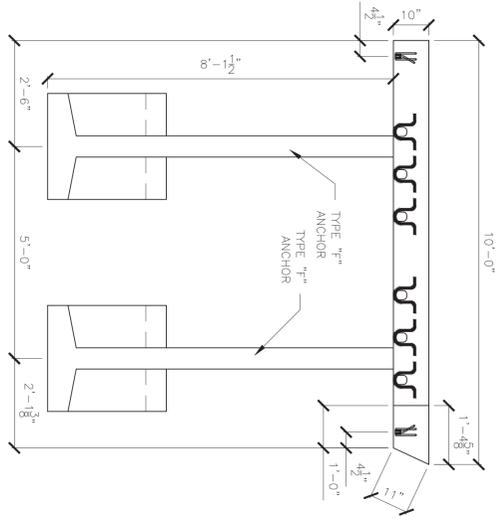
DWG NO.
SS.0



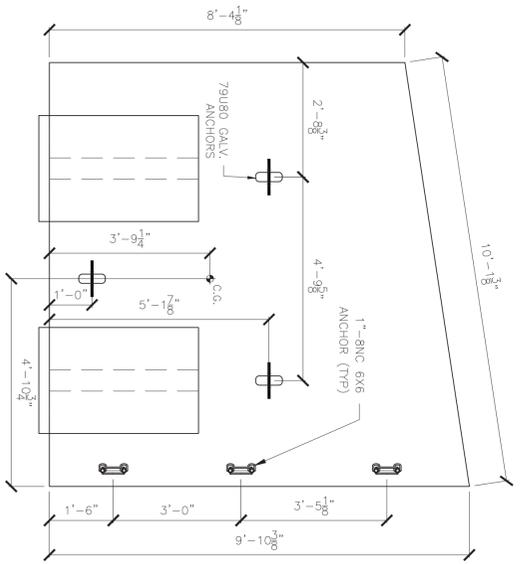
1 WW4C PLAN VIEW
S6.0 1/2" = 1'-0"



2 WW4B PLAN VIEW
S6.0 1/2" = 1'-0"

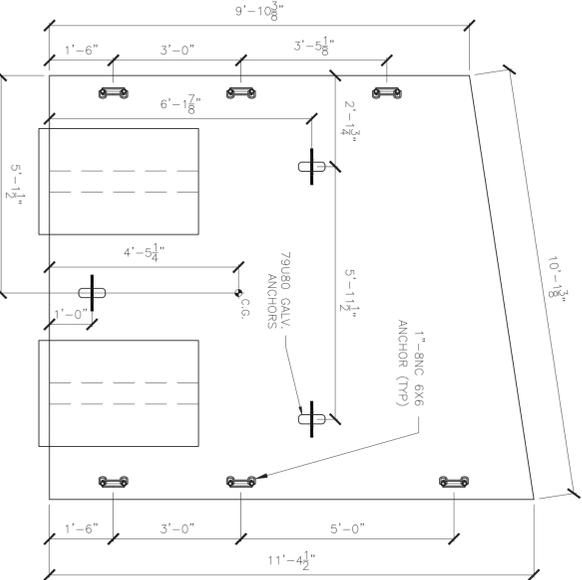


3 WW4A PLAN VIEW
S6.0 1/2" = 1'-0"



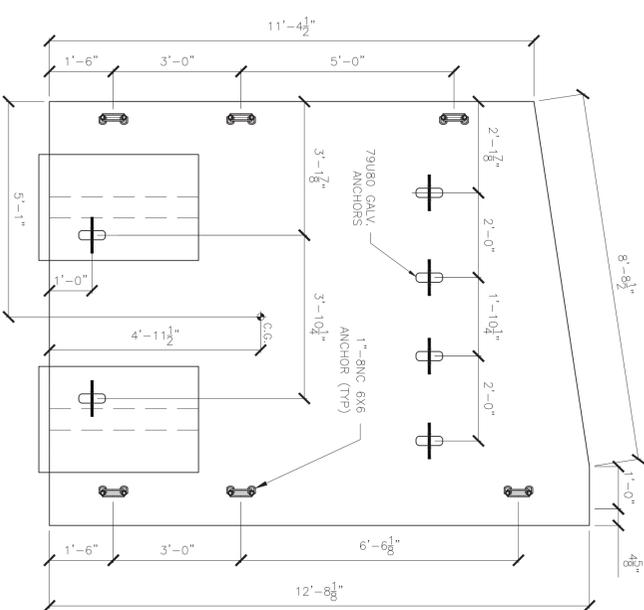
4 WW4C ELEVATION
S6.0 1/2" = 1'-0"

**1 WW4C
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 16,429#
WALL: (278 CY)
F ANCHOR: 0.64 CY
E ANCHOR: 0.64 CY



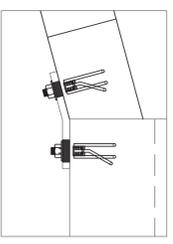
5 WW4B ELEVATION
S6.0 1/2" = 1'-0"

**1 WW4B
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 18,262#
WALL: (323 CY)
F ANCHOR: 0.64 CY
E ANCHOR: 0.64 CY

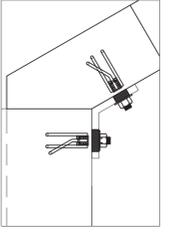


6 WW4A ELEVATION
S6.0 1/2" = 1'-0"

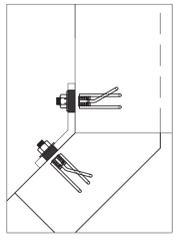
**1 WW4A
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 20,655#
WALL: (368 CY)
F ANCHOR: 0.71 CY
E ANCHOR: 0.71 CY



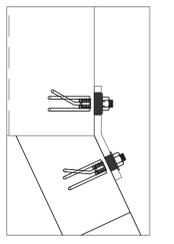
WW1 CONNECTION
165° BENT PLATE



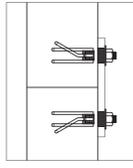
WW3 CONNECTION
120° BENT PLATE



WW2 CONNECTION
135° BENT PLATE

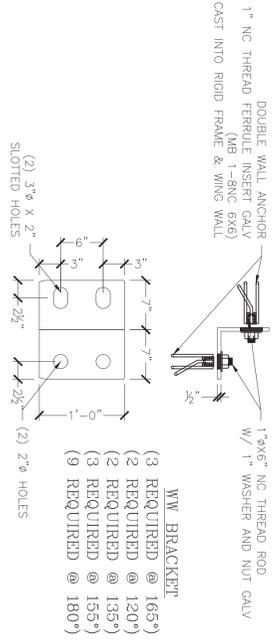


WW4 CONNECTION
155° BENT PLATE



MIDWALL CONNECTION
180° PLATE

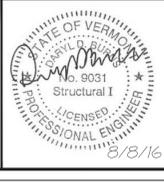
ALL CONNECTIONS USE
1" - 8NC 6X6 DOUBLE
WINGWALL ANCHORS
WITH 1" BENT PLATES



PLATES TO BE MADE OF 3/4" MILD STEEL.
PLASMA CUT AND BENT AS REQUIRED.
(HOT DIPPED GALVANIZED AFTER BENDING)

3 WINGWALL BRACKET DETAIL
S5.0 1" = 1'-0"

No.	Date	Revision	By



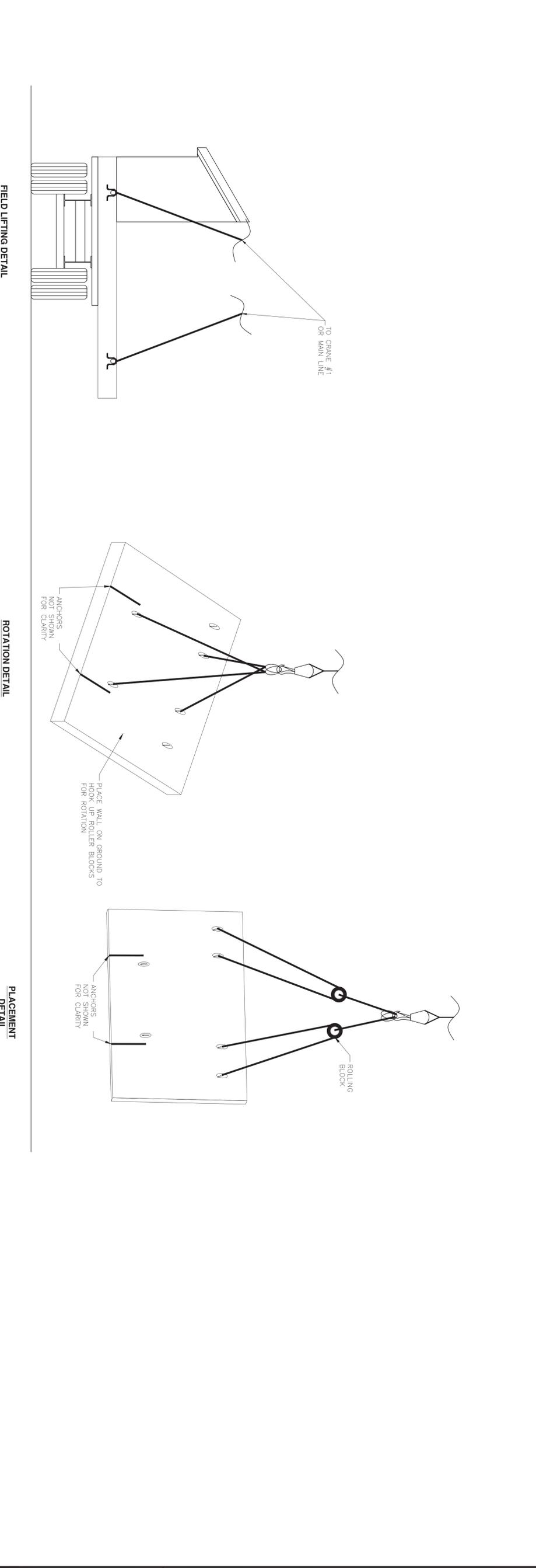
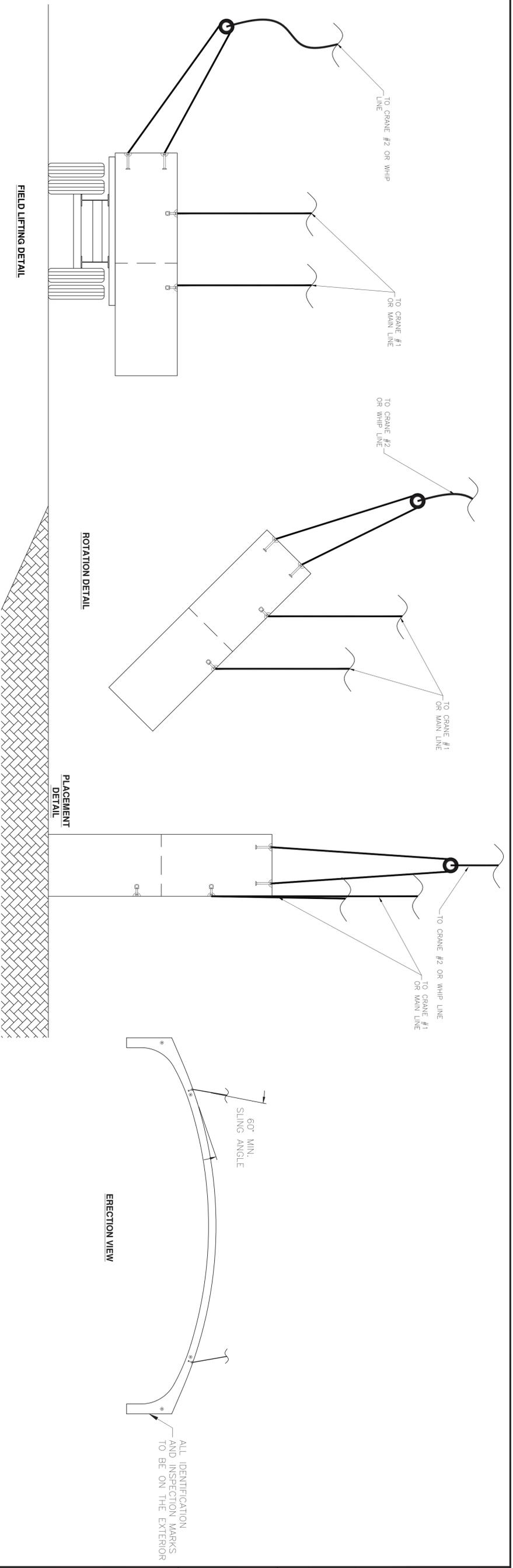
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860 HOOPER ROAD, ENDWELL, NY 13760-1564
TEL: (607) 231-6600 FAX: (607) 231-6650

VT 100 Road Culvert
Duxbury, Vermont
Wingwall Details

PREPARED FOR:
MICHIE
MICHIE CORPORATION, INC.
173 BUXTON INDUSTRIAL DRIVE-PO BOX 870
HENRIKER, NH 0324
PHONE: 603-428-3218
FAX: 603-428-7426

Project No. 7347
Date: 6/29/16
Designed by: DELTA
Drawn by: GSC
Checked by:
Scale: AS SHOWN

DWG NO.
S6.0



No.	Date	Revision	By



DESIGNED AND DETAILED BY:
DELTA
 ENGINEERS, ARCHITECTS, & LAND SURVEYORS
 860 HOOPER ROAD, ENDWELL, NY 13760-1564
 TEL: (607) 231-6600 FAX: (607) 231-6650

VT 100 Road Culvert
Duxbury, Vermont

Lifting Details

Project No. 7347
 Date: 6/29/16
 Designed by: DELTA
 Drawn by: GSC
 Checked by: Scale: AS SHOWN

PREPARED FOR:
MICHE
 MICHE CORPORATION, INC.
 173 BUXTON INDUSTRIAL DRIVE-PO BOX 870
 HENNIKER, NH 03242
 PHONE: 603-428-3218
 FAX: 603-428-7426

DWG NO.
58.0