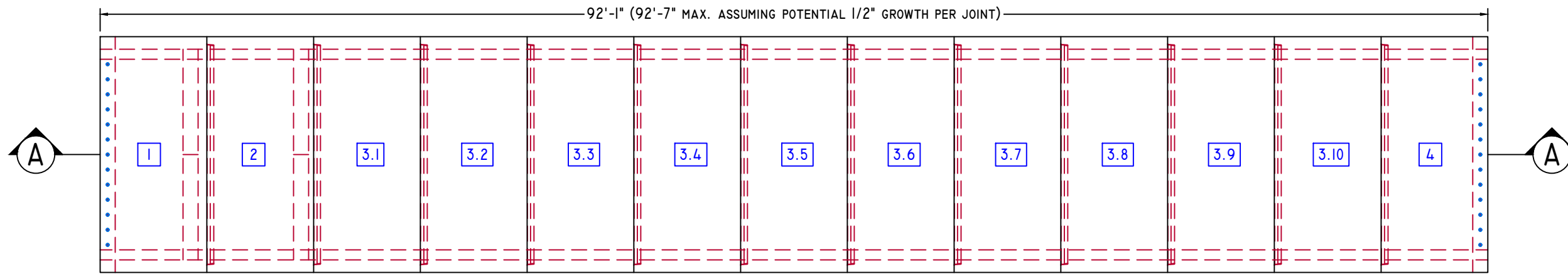
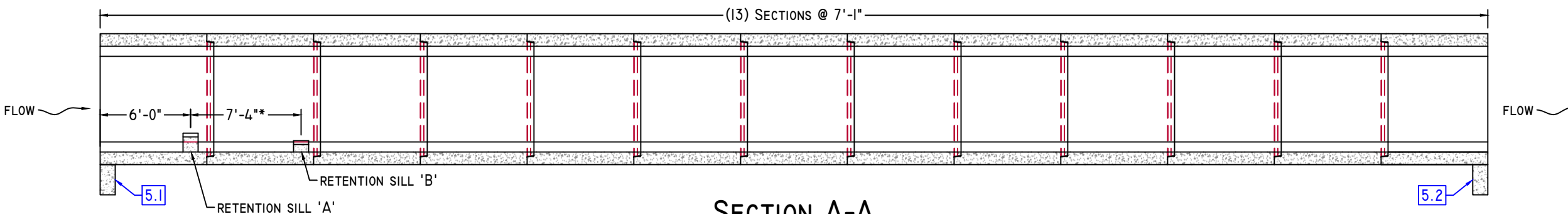


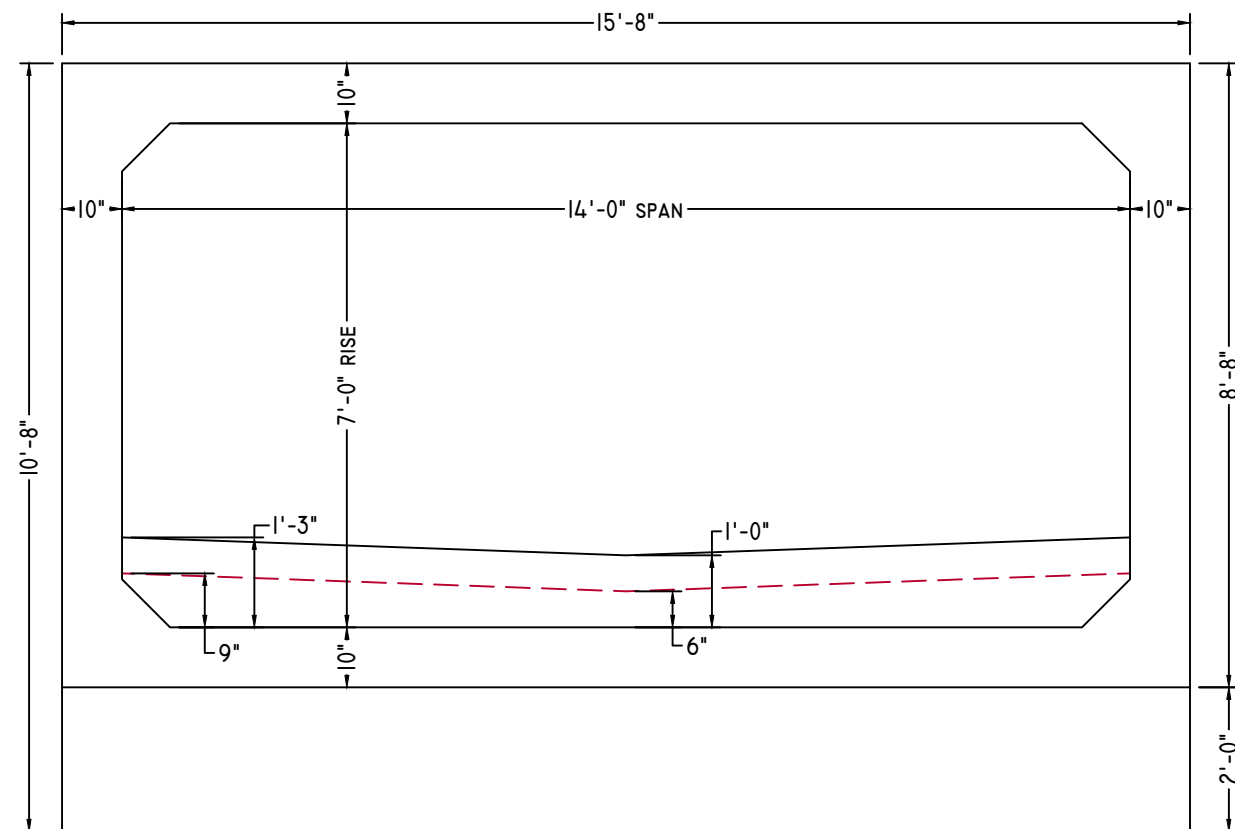
# OVERALL



**PLAN VIEW**

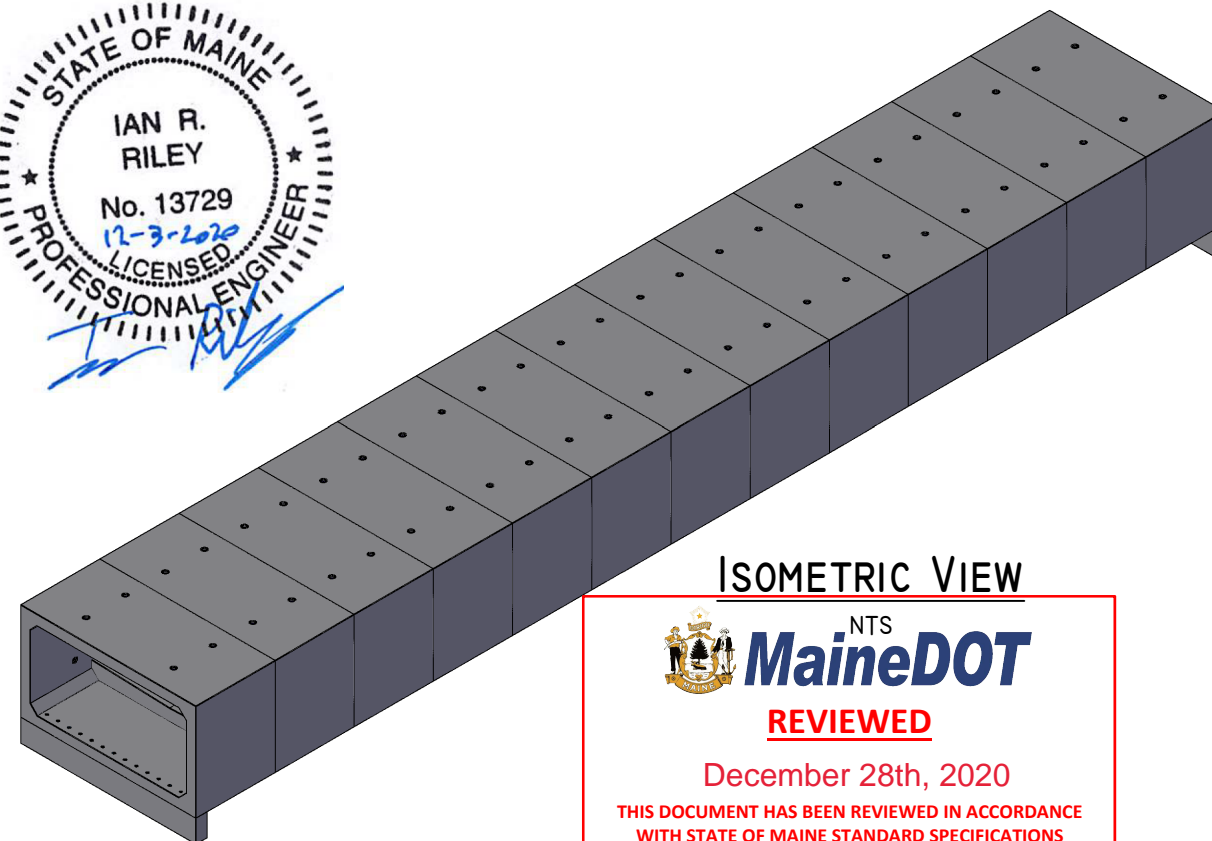


**SECTION A-A**



**END VIEW**

3/8" = 1'-0"



**ISOMETRIC VIEW**



**REVIEWED**

December 28th, 2020

THIS DOCUMENT HAS BEEN REVIEWED IN ACCORDANCE WITH STATE OF MAINE STANDARD SPECIFICATIONS SECTION 105.7 - WORKING DRAWINGS

Reviewed By: *Taylor Clark*  
Taylor Clark



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

WWW.AMERICANCONCRETE.COM

ITEM		QTY	BILL OF MATERIALS
1	1		UPSTREAM END W/ RETENTION SILL WT: 44,100#
2	1		MID SECTION W/ RETENTION SILL WT: 42,210#
3	10		MID SECTION WT: 40,965# EA
4	1		DOWNSTREAM END WT: 40,105#
5	2		TOEWALL WT: 4,685# EA
NOT SHOWN			
6	26		#8 x 20" TOEWALL PIN (13 EA)

**DESIGN NOTES:**

- Concrete**
  - COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
  - AIR-ENTRAINMENT: 4.5% MIN - 7.5% MAX
- Structural Reinforcement:**
  - BAR PER ASTM A615, GRADE 60
  - WWF PER ASTM A1064, GRADE 70
  - SUPPLEMENTAL REINFORCING AROUND LIFTING INSERTS AS SHOWN (WHEN REQUIRED.)
  - DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
  - 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
- Manufacturing / Installation:**
  - JOINTS SEALED WITH BUTYL RUBBER SEALANT. SEE DETAIL SHEET DI.0
  - ALL EXTERIOR JOINTS WRAPPED IN MIN. 12" WIDE MEMBRANE FROM MDOT QPL PER 534.20. SUPPLIED AND INSTALLED BY CONTRACTOR.
  - \*DIMENSION CHANGED FROM 8'-0" TO 7'-4" TO ALLOW ADEQUATE SPACE FROM JOINT FOR PLACEMENT OF FORM WORK FOR PRECAST RETENTION SILL.
- Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 5.00'  
MAXIMUM ALLOWABLE FILL: 7.25'  
±0.50' INCREMENTS

**NOTE: Some details not shown for clarity.  
SCALE: 1/8" = 1'-0" Unless noted otherwise.**

STRUCTURE NAME: 14' x 7' x 92' Box CULVERT		<b>CI.0</b>
JOB NAME: LINDSEY BROOK BRIDGE		
LOCATION: CARROLL PLANTATION, ME		
CONTRACTOR: ME. DOT		
DRAWN BY: SSM	DATE: 12/03/2020	
REV.#: 0.00	DATE: 12/03/2020	

# UPSTREAM END W/ RETENTION SILL



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

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ITEM		QTY	BILL OF MATERIALS
1	1		UPSTREAM END W/ RETENTION SILL WT: 44,100#
5	2		TOEWALL WT: 4,685# EA
NOT SHOWN			
6	13		#8 x 20" TOEWALL PIN

**DESIGN NOTES:**

1. **Concrete**
  - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
  - 1.2. AIR-ENTRAINMENT: 4.5% MIN - 7.5% MAX
2. **Structural Reinforcement:**
  - 2.1. BAR PER ASTM A615, GRADE 60
  - 2.2. WWF PER ASTM A1064, GRADE 70
  - 2.3. SUPPLEMENTAL REINFORCING AROUND LIFTING INSERTS AS SHOWN (WHEN REQUIRED.)
  - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
  - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
3. **Manufacturing / Installation:**
  - 3.1. JOINTS SEALED WITH BUTYL RUBBER SEALANT. SEE DETAIL SHEET DI.0
  - 3.2. ALL EXTERIOR JOINTS WRAPPED IN MIN. 12" WIDE MEMBRANE FROM MDOT QPL PER 534.20. SUPPLIED AND INSTALLED BY CONTRACTOR.
  - 3.3. \*DIMENSION CHANGED FROM 8'-0" TO 7'-4" TO ALLOW ADEQUATE SPACE FROM JOINT FOR PLACEMENT OF FORM WORK FOR PRECAST RETENTION SILL.
4. **Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 5.00'  
 MAXIMUM ALLOWABLE FILL: 7.25'  
 ≈0.50' INCREMENTS

**NOTE: Some details not shown for clarity.  
 SCALE: 3/8" = 1'-0" Unless noted otherwise.**

STRUCTURE NAME:  
 14' x 7' x 92' Box CULVERT

JOB NAME:  
 LINDSEY BROOK BRIDGE

LOCATION:  
 CARROLL PLANTATION, ME

CONTRACTOR:  
 ME. DOT

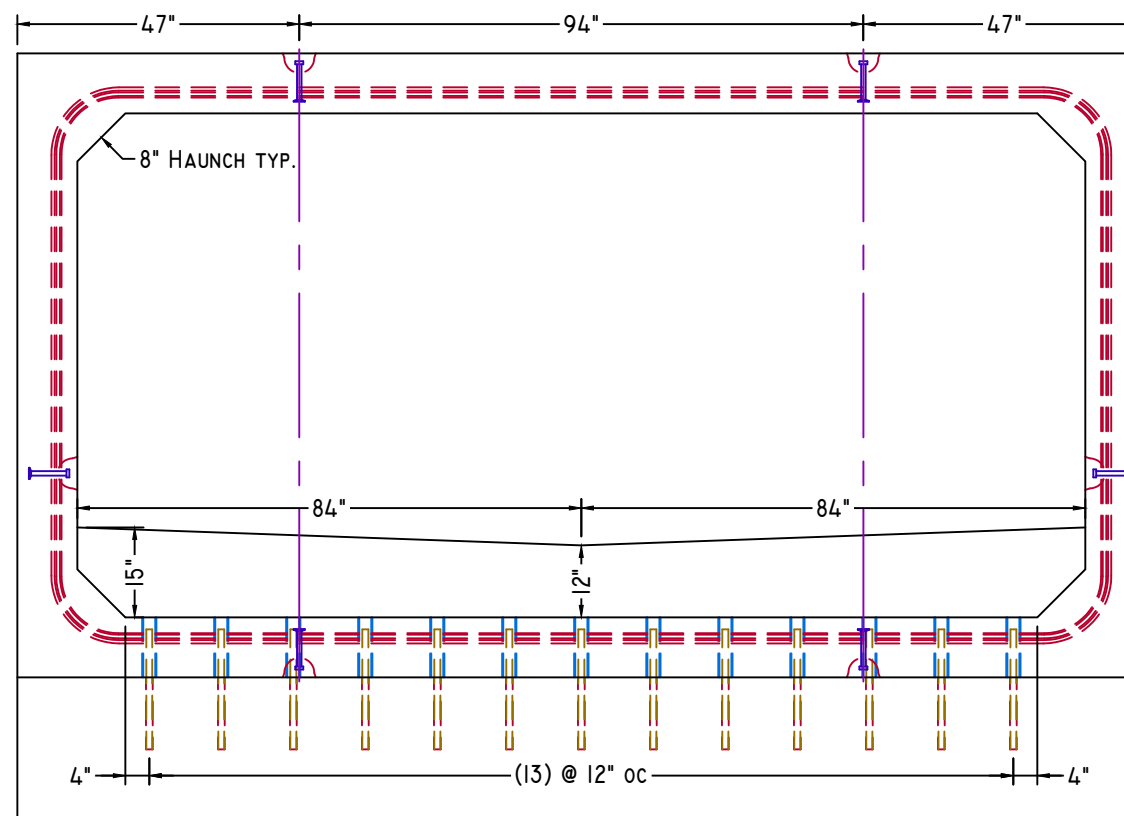
DRAWN BY:  
 SSM

DATE:  
 12/03/2020

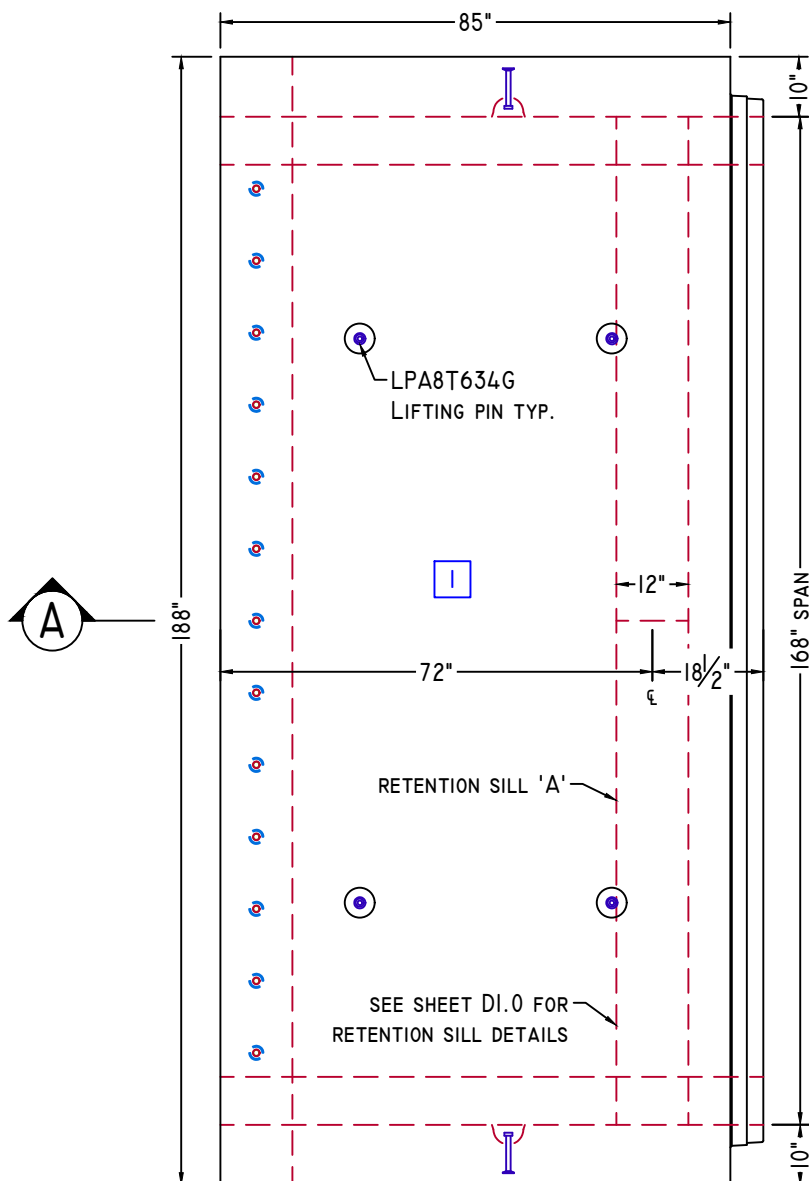
REV.#:  
 0.00

DATE:  
 12/03/2020

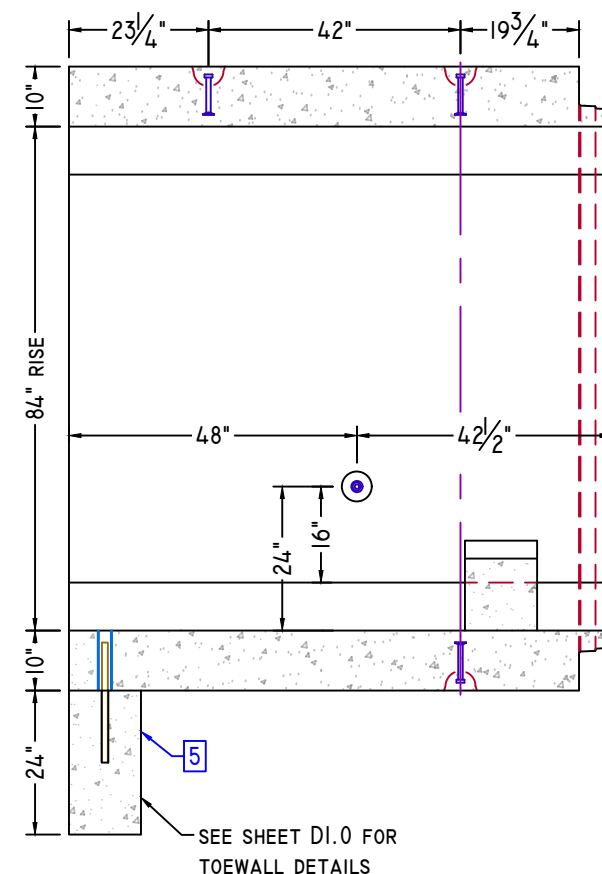
CI.1



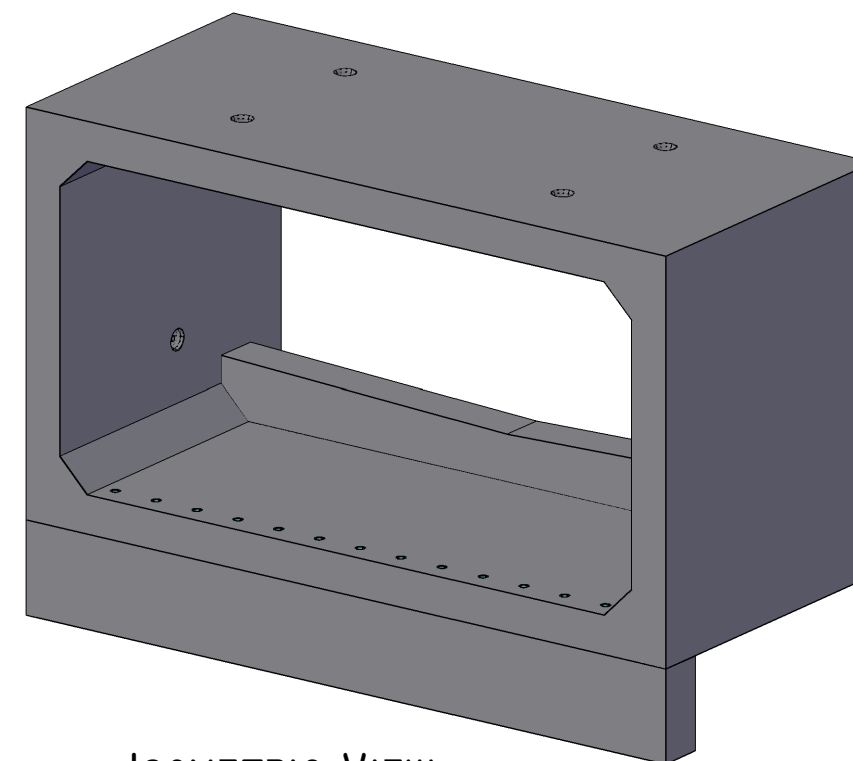
**END VIEW**



**PLAN VIEW**



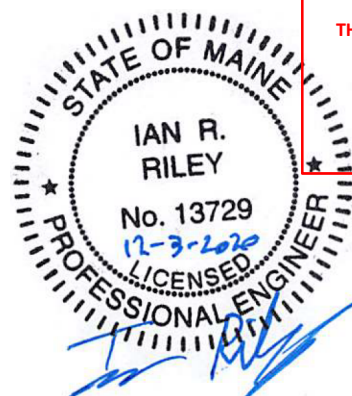
**SECTION A-A**



**ISOMETRIC VIEW**

NTS

**State of Maine**  
  
**REVIEWED**  
 December 28th, 2020  
 THIS DOCUMENT HAS BEEN REVIEWED IN ACCORDANCE  
 WITH STATE OF MAINE STANDARD SPECIFICATIONS  
 SECTION 105.7 - WORKING DRAWINGS  
 Reviewed By: *Taylor Clark*  
 Taylor Clark





# MID SECTION



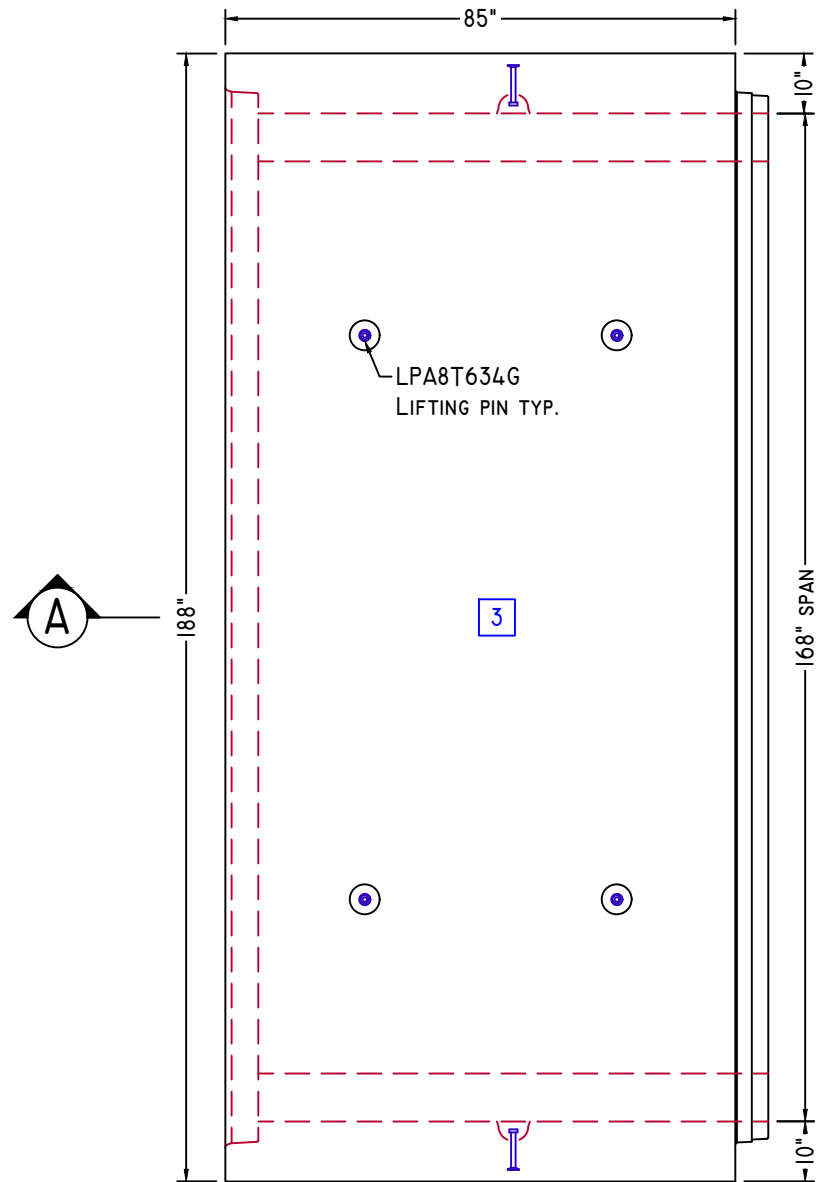
American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

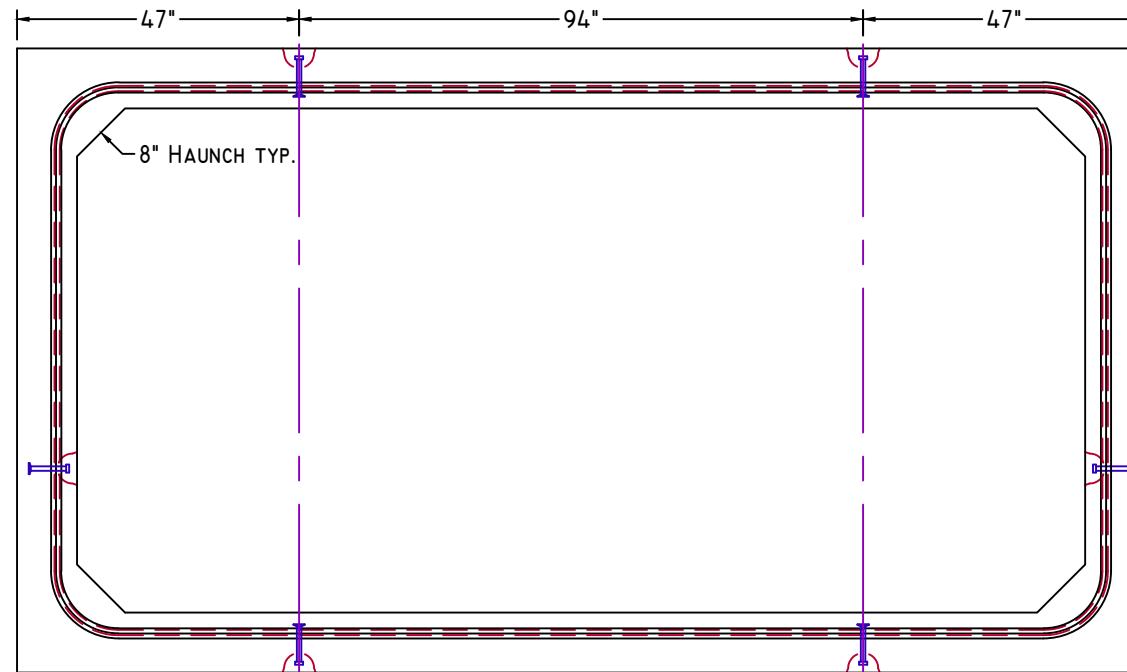
TEL: 207-947-8334

FAX: 207-947-3580

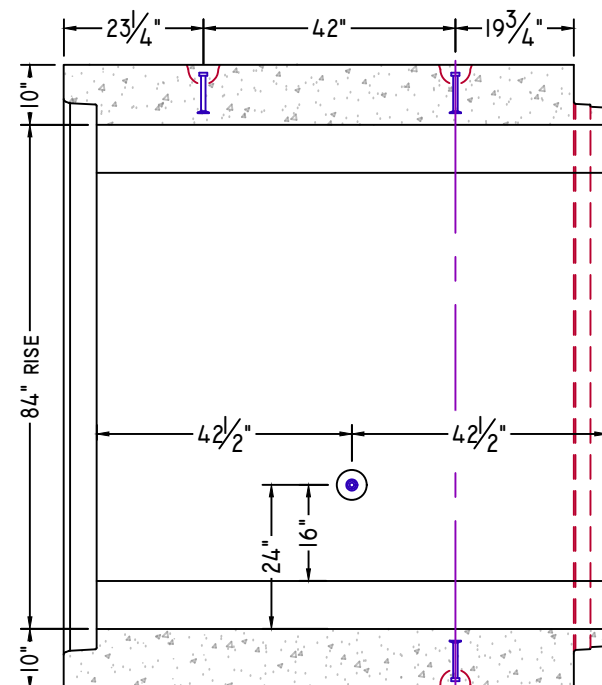
WWW.AMERICANCONCRETE.COM



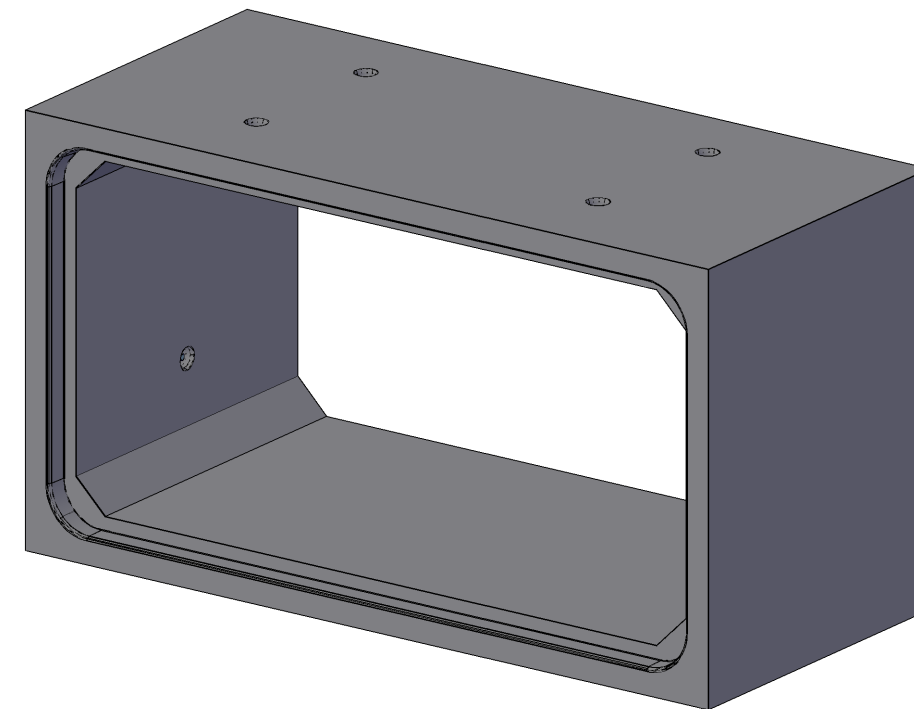
PLAN VIEW



END VIEW



SECTION A-A



ISOMETRIC VIEW

NTS

ITEM	QTY	BILL OF MATERIALS	
3	10	MID SECTION	WT: 40,965# EA

DESIGN NOTES:

- Concrete**
  - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
  - 1.2. AIR-ENTRAINMENT: 4.5% MIN - 7.5% MAX
- Structural Reinforcement:**
  - 2.1. BAR PER ASTM A615, GRADE 60
  - 2.2. WWF PER ASTM A1064, GRADE 70
  - 2.3. SUPPLEMENTAL REINFORCING AROUND LIFTING INSERTS AS SHOWN (WHEN REQUIRED.)
  - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
  - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
- Manufacturing / Installation:**
  - 3.1. JOINTS SEALED WITH BUTYL RUBBER SEALANT. SEE DETAIL SHEET DI.0
  - 3.2. ALL EXTERIOR JOINTS WRAPPED IN MIN. 12" WIDE MEMBRANE FROM MDOT QPL PER 534.20. SUPPLIED AND INSTALLED BY CONTRACTOR.
  - 3.3. \*DIMENSION CHANGED FROM 8'-0" TO 7'-4" TO ALLOW ADEQUATE SPACE FROM JOINT FOR PLACEMENT OF FORM WORK FOR PRECAST RETENTION SILL.
- Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 5.00'

MAXIMUM ALLOWABLE FILL: 7.25'

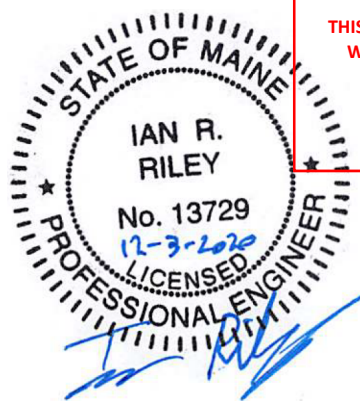
±0.50' INCREMENTS

NOTE: Some details not shown for clarity.  
SCALE: 1/8" = 1'-0" Unless noted otherwise.

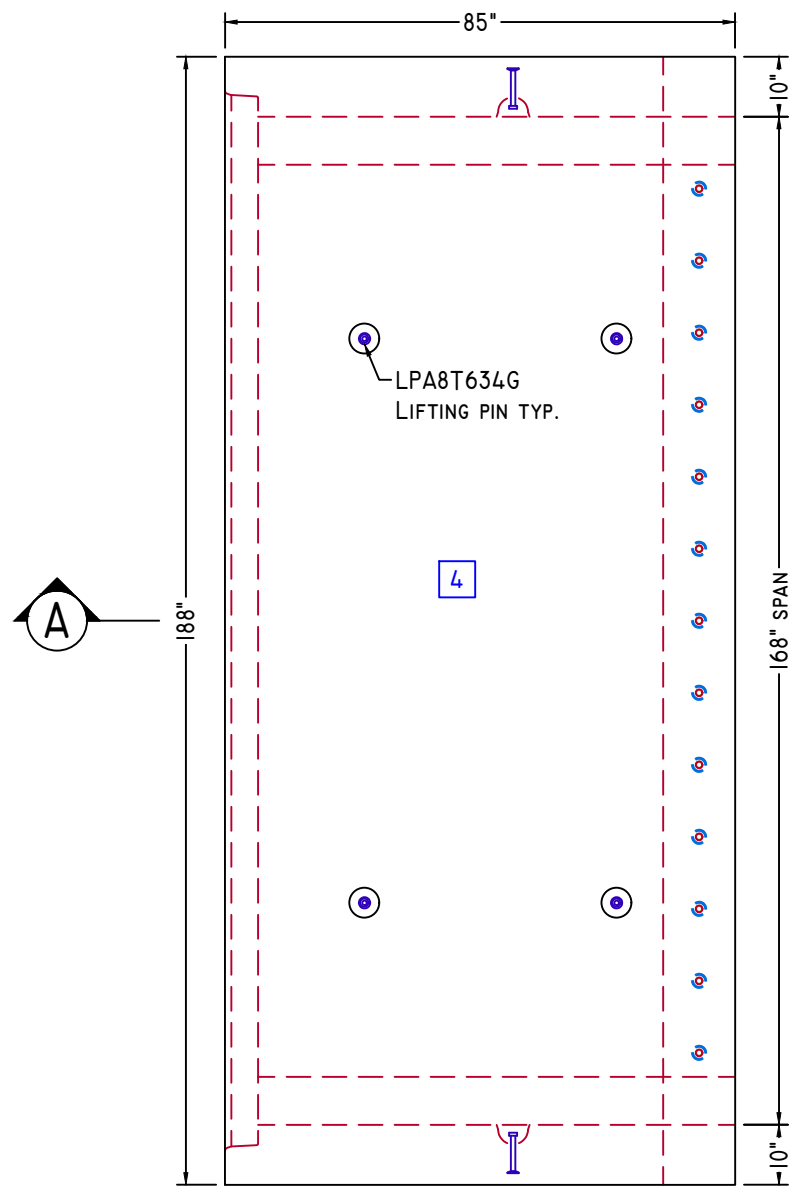
STRUCTURE NAME: 14' x 7' x 92' Box CULVERT	
JOB NAME: LINDSEY BROOK BRIDGE	
LOCATION: CARROLL PLANTATION, ME	
CONTRACTOR: ME. DOT	

DRAWN BY: SSM	DATE: 12/03/2020	CI.3
REV.#: 0.00	DATE: 12/03/2020	

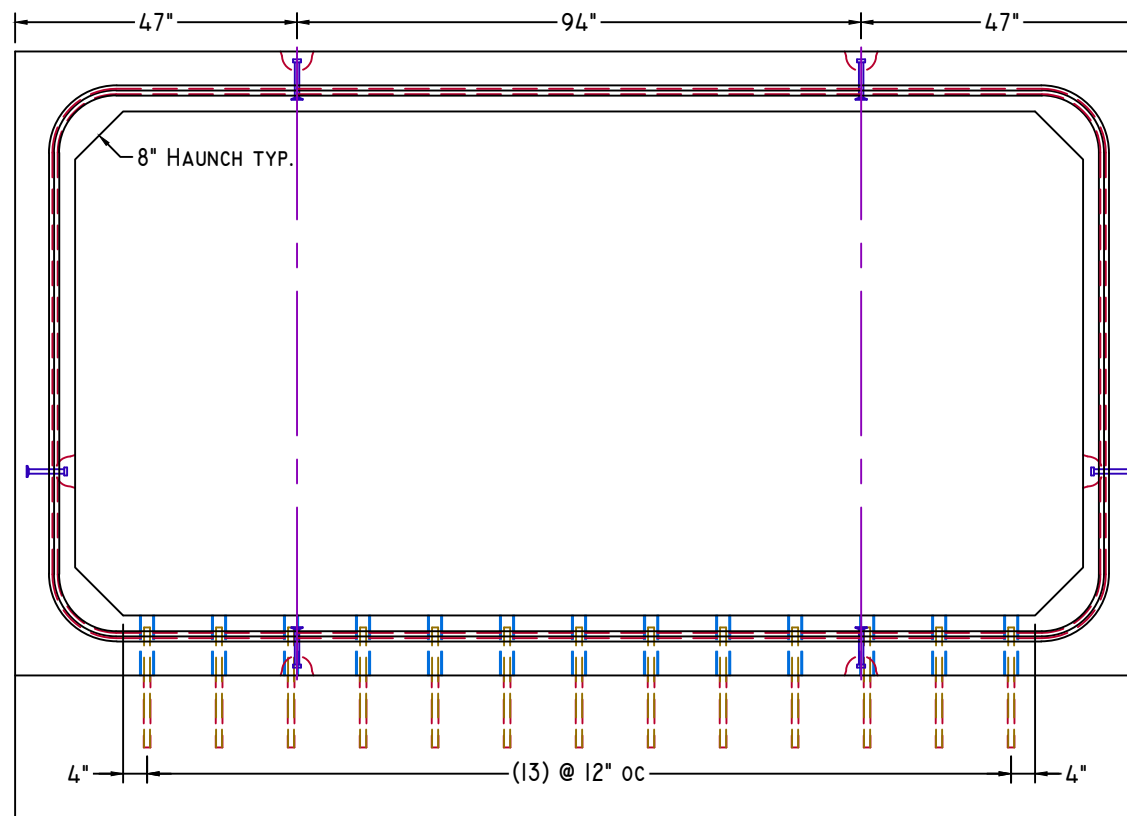
**MaineDOT**  
**REVIEWED**  
December 28th, 2020  
THIS DOCUMENT HAS BEEN REVIEWED IN ACCORDANCE WITH STATE OF MAINE STANDARD SPECIFICATIONS SECTION 105.7 - WORKING DRAWINGS  
Reviewed By: *Taylor Clark*  
Taylor Clark



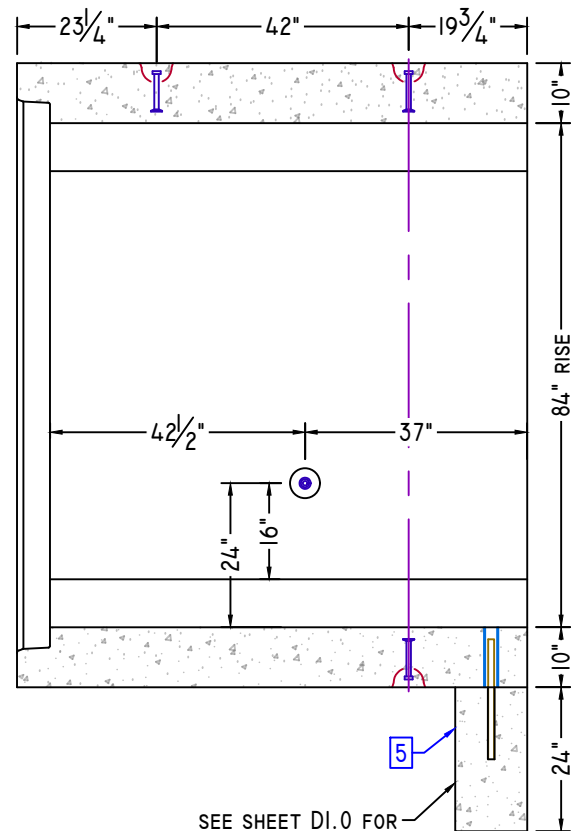
# DOWNSTREAM END



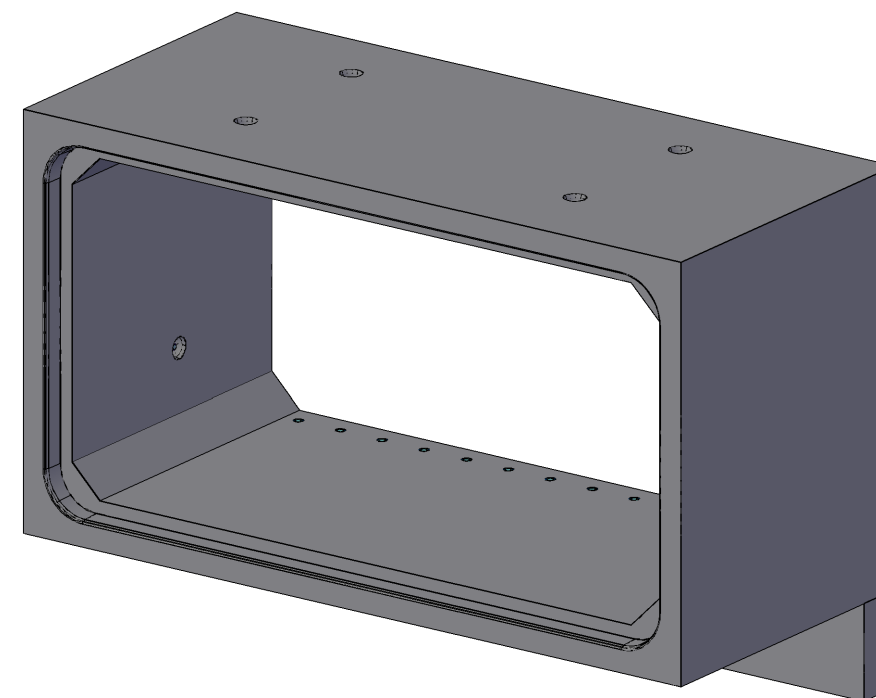
PLAN VIEW



END VIEW



SECTION A-A



ISOMETRIC VIEW

NTS



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

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ITEM		QTY	BILL OF MATERIALS	
4	1	DOWNSTREAM END	WT:	40,105#
5	2	TOEWALL	WT:	4,685# EA
NOT SHOWN				
6	13	#8 x 20" TOEWALL PIN		

DESIGN NOTES:

1. **Concrete**
  - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
  - 1.2. AIR-ENTRAINMENT: 4.5% MIN - 7.5% MAX
2. **Structural Reinforcement:**
  - 2.1. BAR PER ASTM A615, GRADE 60
  - 2.2. WWF PER ASTM A1064, GRADE 70
  - 2.3. SUPPLEMENTAL REINFORCING AROUND LIFTING INSERTS AS SHOWN (WHEN REQUIRED.)
  - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
  - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
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  - 3.3. \*DIMENSION CHANGED FROM 8'-0" TO 7'-4" TO ALLOW ADEQUATE SPACE FROM JOINT FOR PLACEMENT OF FORM WORK FOR PRECAST RETENTION SILL.
4. **Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 5.00'

MAXIMUM ALLOWABLE FILL: 7.25'

±0.50' INCREMENTS

NOTE: Some details not shown for clarity.  
SCALE: 1/8" = 1'-0" Unless noted otherwise.

STRUCTURE NAME:  
14' x 7' x 92' Box CULVERT

JOB NAME:  
LINDSEY BROOK BRIDGE

LOCATION:  
CARROLL PLANTATION, ME

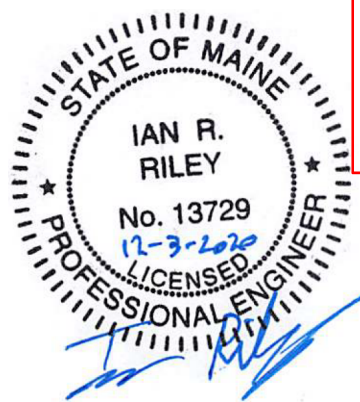
CONTRACTOR:  
ME. DOT

DRAWN BY: SSM  
DATE: 12/03/2020

REV.#: 0.00  
DATE: 12/03/2020

CI.4

**Reviewed**  
December 28th, 2020  
THIS DOCUMENT HAS BEEN REVIEWED IN ACCORDANCE  
WITH STATE OF MAINE STANDARD SPECIFICATIONS  
SECTION 105.7 - WORKING DRAWINGS  
Reviewed By: *Taylor Clark*  
Taylor Clark





# TYPICAL WWF BENDING



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

WWW.AMERICANCONCRETE.COM

## SHEET DESIGN



Concrete Reinforcements, Inc.  
3830 Presidents Way • Jacksonville, FL 32220  
Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete

PROJECT F20-4482 - Drawings - 14x7 Carroll - American Concrete - 12-2-2020

LOCATION Veazie, ME

DATE 12-02-2020 MARK NUMBER A1/A2 (-01)

L.W.SPAC 2

C.W.SPAC VAR

L.W.1 SIZE D12.0

L.W.2 SIZE D10.6

C.W.SIZE D5.0

WIDTH 6'-9"

LENGTH 24'-10"

OH.LEFT 0.5"

OH.RIGHT 0.5"

OH.TOP 1"

OH.BOTTOM 1"

YIELD 70,000psi

BENT -

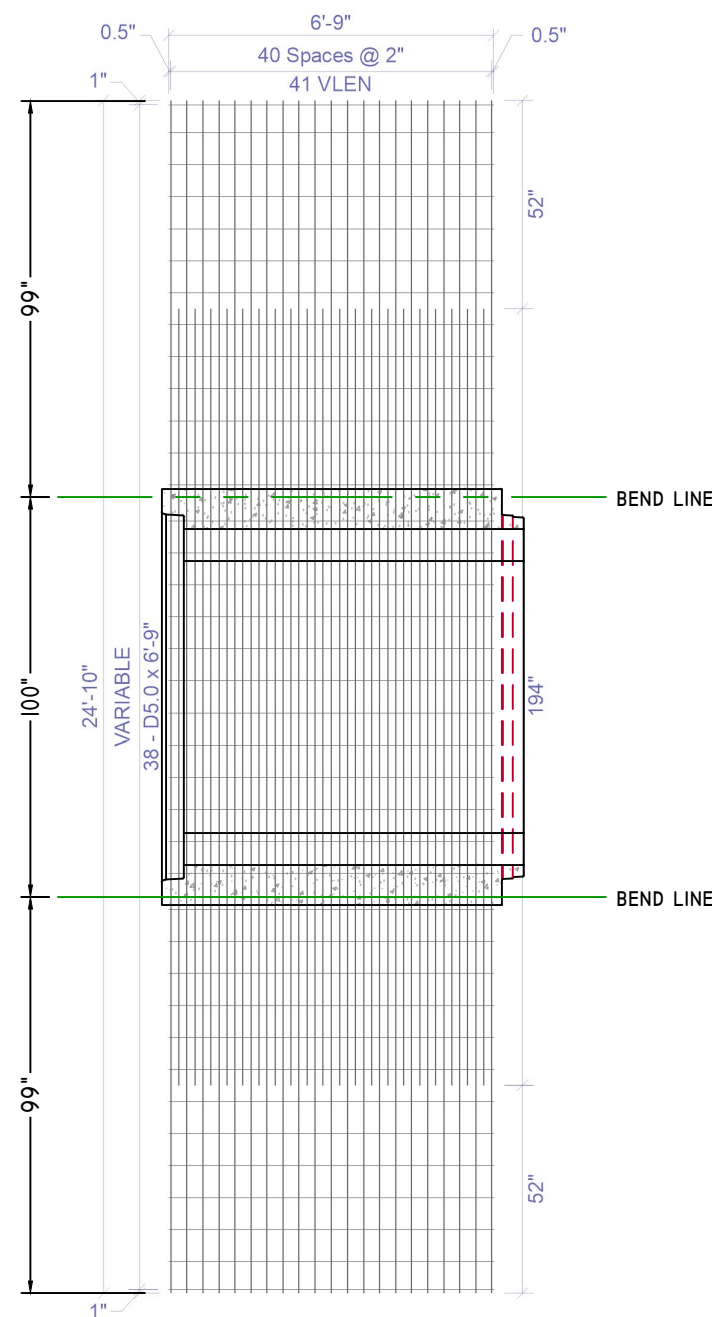
CUT -

ROLL -

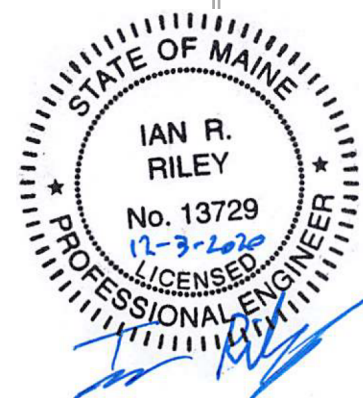
WIRE SIZES	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
NO. PER SHEET	21	20	38
SIZE	D12.0	D10.6	D5.0
LENGTH	24'-10"	16'-2"	6'-9"
W.T./SHEET			
SHEET W.T.	382.80#		
QUANTITY	26		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS./CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:  
BEND DIMS: WALL=100", SLABS=99"

APPROVED \_\_\_\_\_



2 x VAR D12.0 / D10.6 / D5.0 (GRADE 70) 80'(+0.5", +0.5") x VLEN(1", 1")  
VLEN = ALTERNATING LENGTH 16'-2" & 24'-10" WITH 24'-10" @ LHS & RHS  
VAR = 1" OH, 1@7", 11@8", 1@9", 11@8", 1@9", 11@8", 1@7", 1" OH



### ITEM QTY BILL OF MATERIALS

INTENTIONALLY LEFT BLANK

#### DESIGN NOTES:

- Concrete**
  - COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
  - AIR-ENTRAINMENT: 4.5% MIN - 7.5% MAX
- Structural Reinforcement:**
  - BAR PER ASTM A615, GRADE 60
  - WWF PER ASTM A1064, GRADE 70
  - SUPPLEMENTAL REINFORCING AROUND LIFTING INSERTS AS SHOWN (WHEN REQUIRED.)
  - DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
  - 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
- Manufacturing / Installation:**
  - JOINTS SEALED WITH BUTYL RUBBER SEALANT. SEE DETAIL SHEET DI.0
  - ALL EXTERIOR JOINTS WRAPPED IN MIN. 12" WIDE MEMBRANE FROM MDOT QPL PER 534.20. SUPPLIED AND INSTALLED BY CONTRACTOR.
  - \*DIMENSION CHANGED FROM 8'-0" TO 7'-4" TO ALLOW ADEQUATE SPACE FROM JOINT FOR PLACEMENT OF FORM WORK FOR PRECAST RETENTION SILL.
- Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 5.00'  
MAXIMUM ALLOWABLE FILL: 7.25'  
±0.50' INCREMENTS

NOTE: Some details not shown for clarity.  
SCALE: 1/8" = 1'-0" Unless noted otherwise.

STRUCTURE NAME:  
14' x 7' x 92' Box CULVERT

JOB NAME:  
LINDSEY BROOK BRIDGE

LOCATION:  
CARROLL PLANTATION, ME

CONTRACTOR:  
ME. DOT

DRAWN BY:  
SSM

DATE:  
12/03/2020

REV.#:  
0.00

DATE:  
12/03/2020

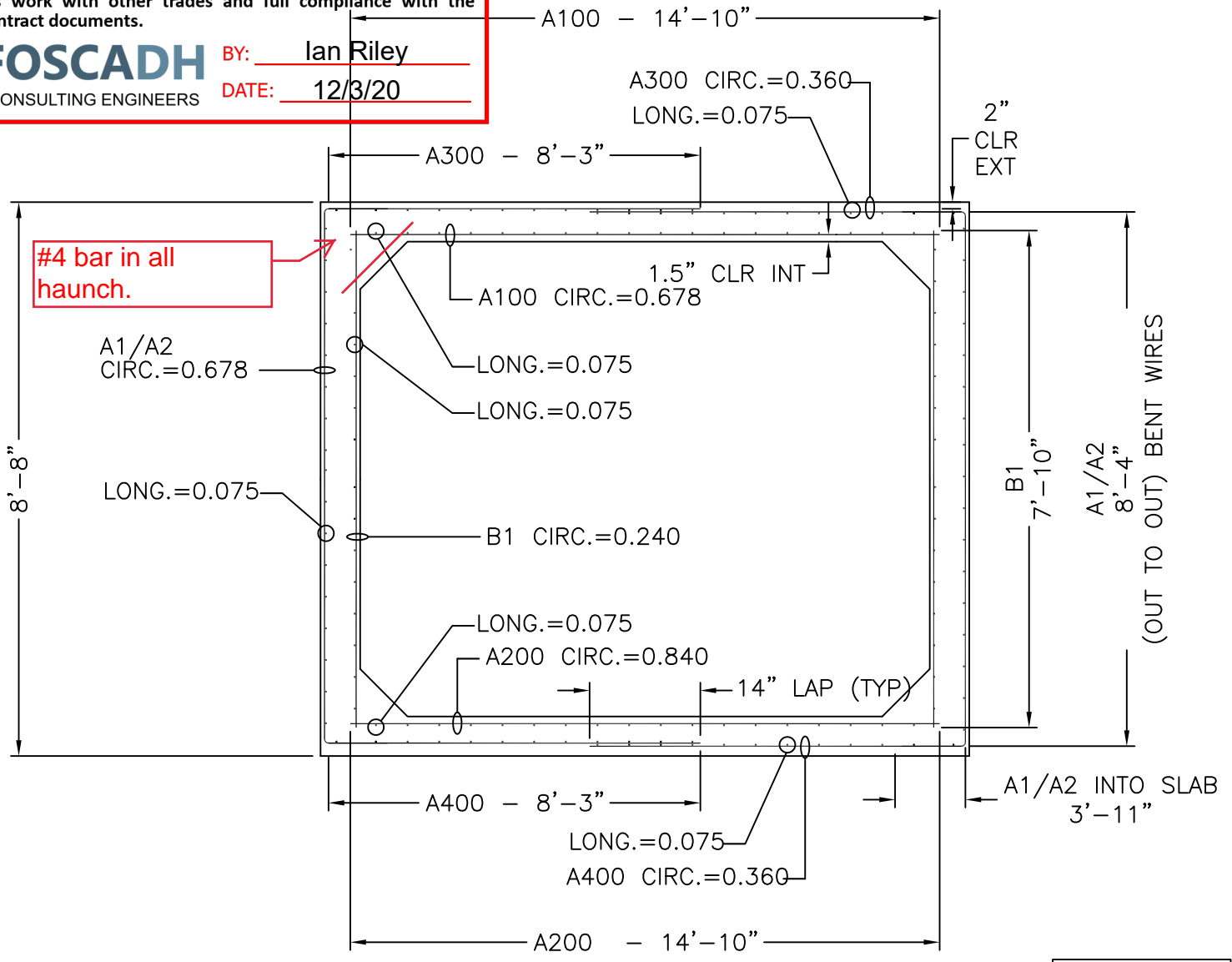
DI.1

**SHOP DRAWING/SUBMITTAL REVIEW**

- APPROVED
- APPROVED WITH CHANGES NOTES
- REVISE AND RESUBMIT
- REJECTED: \_\_\_\_\_

Submittal was reviewed for design conformity and general conformance to contract documents only. The contractor is responsible for confirming and correlating dimensions at job sites for tolerances, clearances, quantities, fabrication processes and techniques of construction, coordination of his work with other trades and full compliance with the contract documents.

**FOSCADH** BY: Ian Riley  
 CONSULTING ENGINEERS DATE: 12/3/20



#4 bar in all haunch.

SLAB THICKNESS	
TOP	10"
BOTTOM	10"
WALLS	10"

14' x 7' x 7'  
 CROSS SECTION WITH AREAS OF STEEL

MECHANICAL DIMENSIONS			
DIM. 'L'	=	N/A	
DIM. 'M'	=	N/A	
DIM. 'R'	=	N/A	
DIM. 'S'	=	N/A	

CAGE WEIGHT PER 7'-0" JOINT = 1465.7 lbs

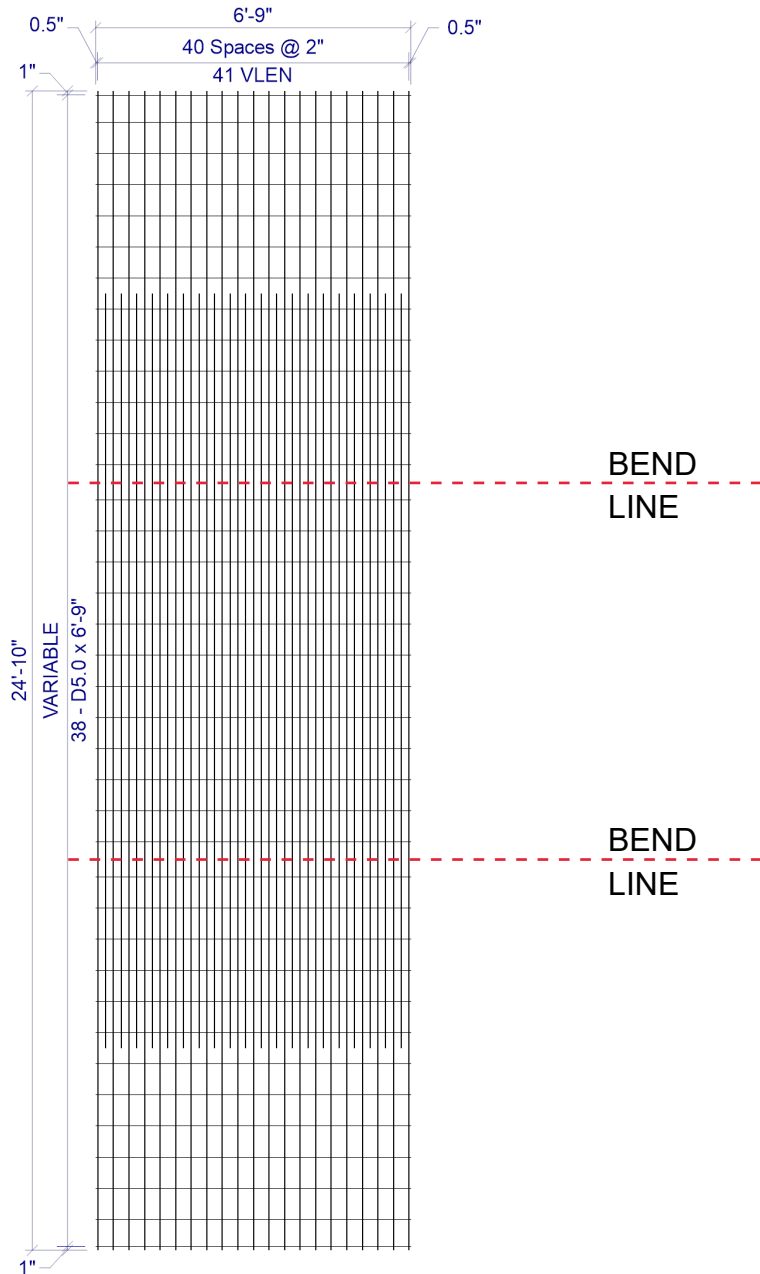
BOX SIZE: 14' X 7' X 7'	ASTM: ETCUL	TABLE:	FILL: 5'-7.25'
----------------------------	----------------	--------	-------------------

<b>Concrete Reinforcements, Inc.</b> 3830 Presidents Way Jacksonville, FL 32220 PH. 904-520-7100 FAX. 904-520-7101	CUSTOMER: AMERICAN CONCRETE	DRAWN BY: BWA	REVISION: -	SHEET DESCRIPTION: COVER	
	PROJECT: 14' X 7' X 7' CARROLL PLANTATION	DATE: 12/2/2020	REVISION DATE: -	FILE NAME: F20-4482	
		CHECKED BY:	SCALE: NTS	PROJECT #: F20-4482	SHEET #: 1 OF 5

# SHEET DESIGN



**Concrete Reinforcements, Inc.**  
 3830 Presidents Way • Jacksonville, FL 32220  
 Phone: 904-520-7100 • Fax: 904-520-7101



CUSTOMER American Concrete  
 PROJECT F20-4482 - Drawings - 14x7 Carroll - American Concrete - 12-2-2020  
 LOCATION Veazie, ME  
 DATE 12-02-2020 MARK NUMBER A1/A2 (-01)

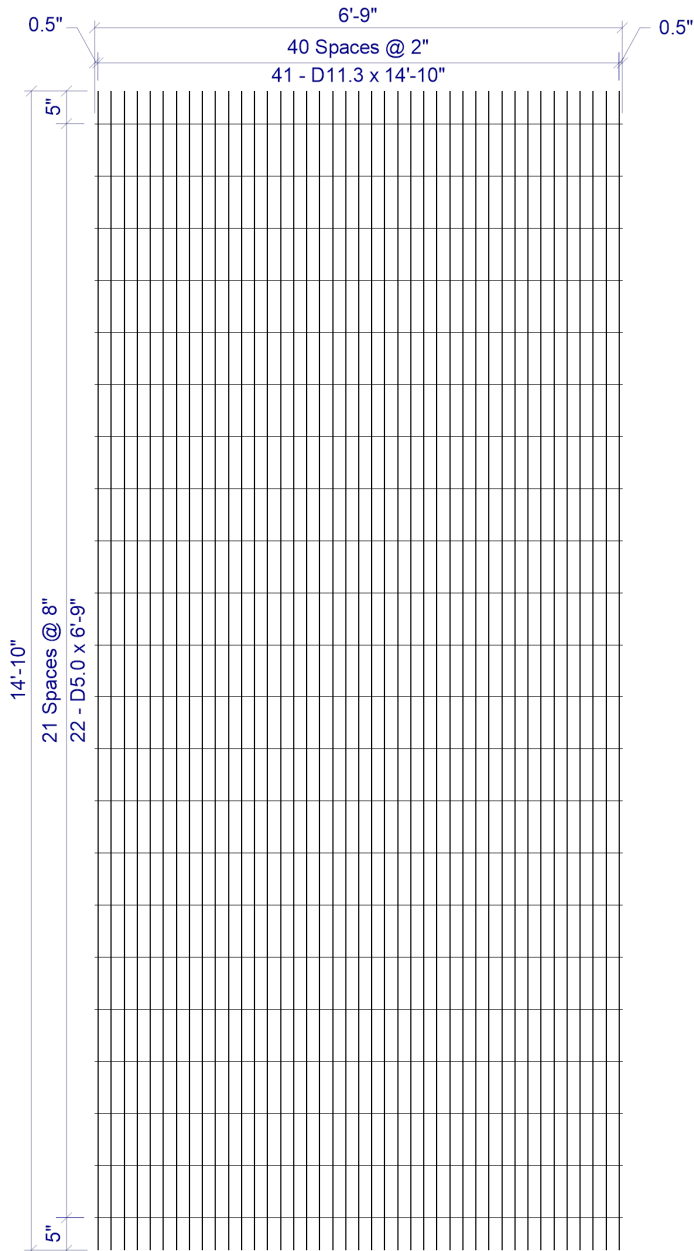
L.W.SPACE 2  
 C.W.SPACE VAR  
 L.W.1 SIZE D12.0  
 L.W.2 SIZE D10.6  
 C.W.SIZE D5.0  
 WIDTH 6'-9"  
 LENGTH 24'-10"  
 OH.LEFT 0.5"  
 OH.RIGHT 0.5"  
 OH.TOP 1"  
 OH.BOTTOM 1"  
 YIELD 70,000psi  
 BENT -  
 CUT -  
 ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	21	20
SIZE	D12.0	D10.6	D5.0
LENGTH	24'-10"	16'-2"	6'-9"
W.T./SHEET			
SHEET W.T.	382.80#		
QUANTITY	26		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS./CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:  
 BEND DIMS: WALL=100", SLABS=99"

**2 x VAR D12.0 / D10.6 / D5.0 (GRADE 70) 80"(+0.5", +0.5") x VLEN(1", 1")**  
 VLEN = ALTERNATING LENGTH 16'-2" & 24'-10" WITH 24'-10" @ LHS & RHS  
 VAR = 1" OH, 1@7", 11@8", 1@9", 11@8", 1@9", 11@8", 1@7", 1" OH

APPROVED \_\_\_\_\_



2 x 8 D11.3 / D5.0 (GRADE 70) 80(+0.5, +0.5) x 14'-10" (5, 5)

# SHEET DESIGN



**Concrete Reinforcements, Inc.**  
3830 Presidents Way • Jacksonville, FL 32220  
Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete

PROJECT F20-4482 - Drawings - 14x7 Carroll - American Concrete - 12-2-2020

LOCATION Veazie, ME

DATE 12-02-2020 MARK NUMBER A100 (-02)

L.W.SPACED 2

C.W.SPACED 8

L.W.1 SIZE D11.3

L.W.2 SIZE N/A

C.W.SIZE D5.0

WIDTH 6'-9"

LENGTH 14'-10"

OH.LEFT 0.5"

OH.RIGHT 0.5"

OH.TOP 5"

OH.BOTTOM 5"

YIELD 70,000psi

BENT -

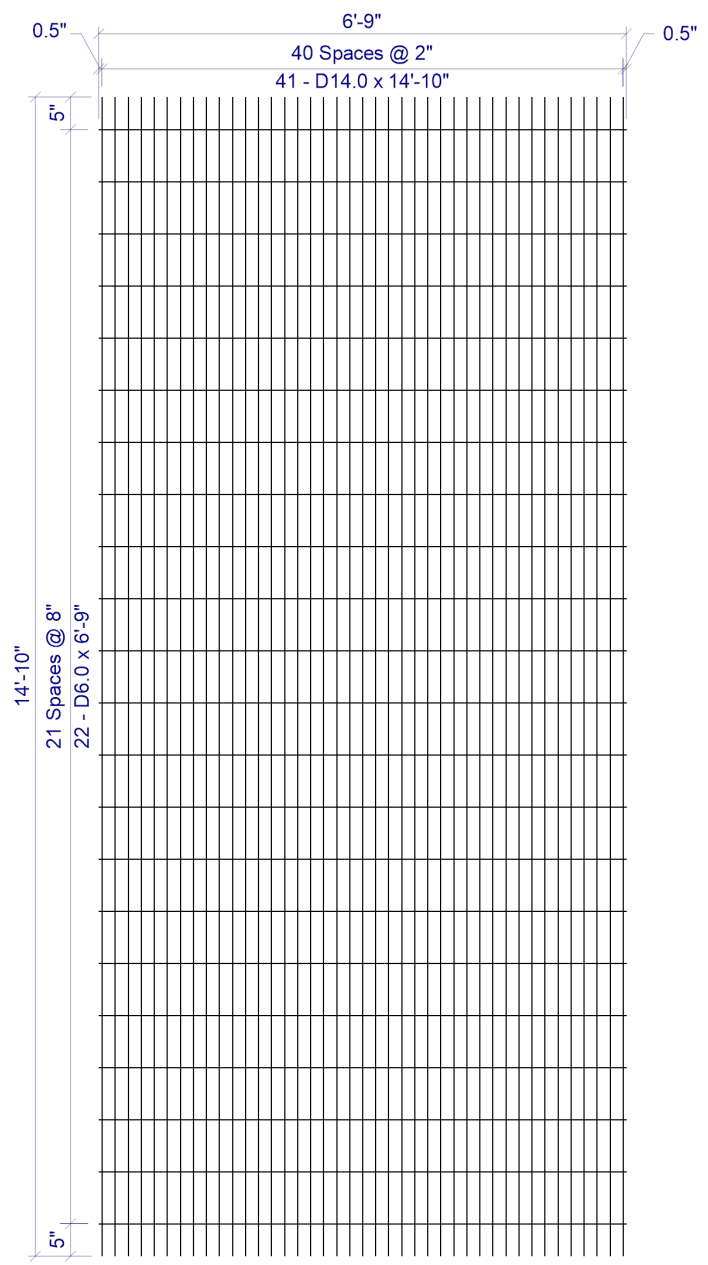
CUT -

ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
NO. PER SHEET	41	N/A	22
SIZE	D11.3	N/A	D5.0
LENGTH	14'-10"	-	6'-9"
W.T./SHEET			
SHEET W.T.	263.10#		
QUANTITY	13		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS./CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:

APPROVED \_\_\_\_\_



2 x 8 D14.0 / D6.0 (GRADE 70) 80(+0.5, +0.5) x 14'-10" (5, 5)

# SHEET DESIGN



**Concrete Reinforcements, Inc.**  
3830 Presidents Way • Jacksonville, FL 32220  
Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete  
PROJECT F20-4482 - Drawings - 14x7 Carroll - American Concrete - 12-2-2020  
LOCATION Veazie, ME  
DATE 12-02-2020 MARK NUMBER A200 (-03)

L.W.SPACE 2  
C.W.SPACE 8  
L.W.1 SIZE D14.0  
L.W.2 SIZE N/A  
C.W.SIZE D6.0  
WIDTH 6'-9"  
LENGTH 14'-10"  
OH.LEFT 0.5"  
OH.RIGHT 0.5"  
OH.TOP 5"  
OH.BOTTOM 5"  
YIELD 70,000psi  
BENT -  
CUT -  
ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	41	N/A
SIZE	D14.0	N/A	D6.0
LENGTH	14'-10"	-	6'-9"
W.T./SHEET			
SHEET W.T.	319.80#		
QUANTITY	13		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS./CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:

APPROVED \_\_\_\_\_

# SHEET DESIGN



**Concrete Reinforcements, Inc.**  
 3830 Presidents Way • Jacksonville, FL 32220  
 Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete

PROJECT F20-4482 - Drawings - 14x7 Carroll - American Concrete - 12-2-2020

LOCATION Veazie, ME

DATE 12-02-2020 MARK NUMBER B1 (-04)

L.W.SPACE 4

C.W.SPACE VAR

L.W.1 SIZE D8.0

L.W.2 SIZE N/A

C.W.SIZE D5.0

WIDTH 6'-9"

LENGTH 7'-10"

OH.LEFT 0.5"

OH.RIGHT 0.5"

OH.TOP 5"

OH.BOTTOM 5"

YIELD 70,000psi

BENT -

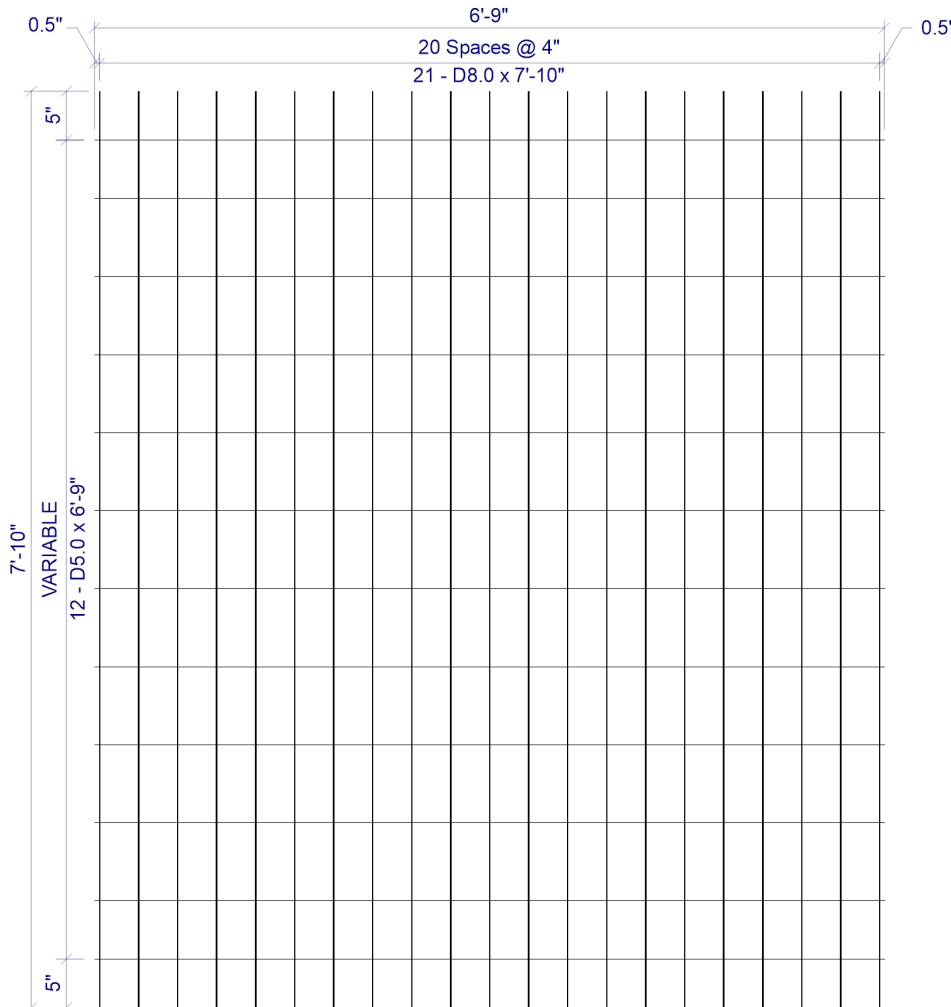
CUT -

ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	21	N/A
SIZE	D8.0	N/A	D5.0
LENGTH	7'-10"	-	6'-9"
W.T./SHEET			
SHEET W.T.	58.60#		
QUANTITY	26		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS./CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:

APPROVED \_\_\_\_\_



**4 x VAR D8.0 / D5.0 (GRADE 70) 80(+0.5, +0.5) x 7'-10" (5, 5)**  
 VAR = 5" OH, 1@6", 9@8", 1@6", 5" OH