STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FAIRFIELD MAINTENANCE
BRINE MAKER/STORAGE
BUILDING

SPECIFICATIONS

Design: International Building Code 2009

DESIGN LOADING

Ground Snow Load ..... 60psf & Added Point Load
As Shown on Sheet 11

Wind Load 90mph
..... Exposure B, Catagory II

MATERIALS

Concrete (Unless noted otherwise) ..... Class "A"
Reinforcing Steel ..... ASTM A615, Grade 60,Epoxy Coated
Structural Steel:
All Material (except as noted) ..... ASTM A709, Grade 50
High Strength Bolts ..... ASTM A325, Type I

BASIC DESIGN STRESSES

Concrete ..... f 'c = 4,350 psi

Reinforcing Steel ..... f y = 60,000 psi

LIST OF DRAWINGS

Title Sheet 1
General Plan 2
Existing Structure 3
Foundation Plan 4
Foundation Sections 5
Foundation Elevations 6
Connection to Existing Structure 7
Foundation Reinforcing Details 8
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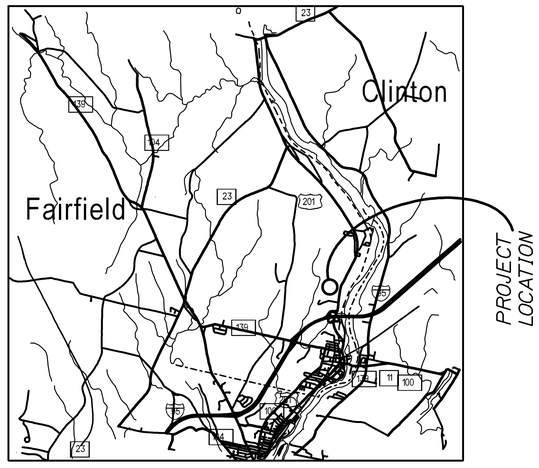
Floor Plan & Roof Framing Plan 11
West Wall Details 12
East Wall Details 13
South Wall Details 14
North Wall Details 15
Center Wall Details 16
Exterior Stairs Details 17
Interior Stairs & Safety Rail Details 18



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER:
CHIEF ENGINEER:
DATE

STATE OF MAINE
ERIC A. CALDERWOOD
No. 9099
LICENSED PROFESSIONAL ENGINEER

P.E. NUMBER 9099
DATE JULY 2010

BY	DATE
JJH	JULY 2010
ETC	JULY 2010

DESIGN-DETAILED
CHECKED-REVIEWED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

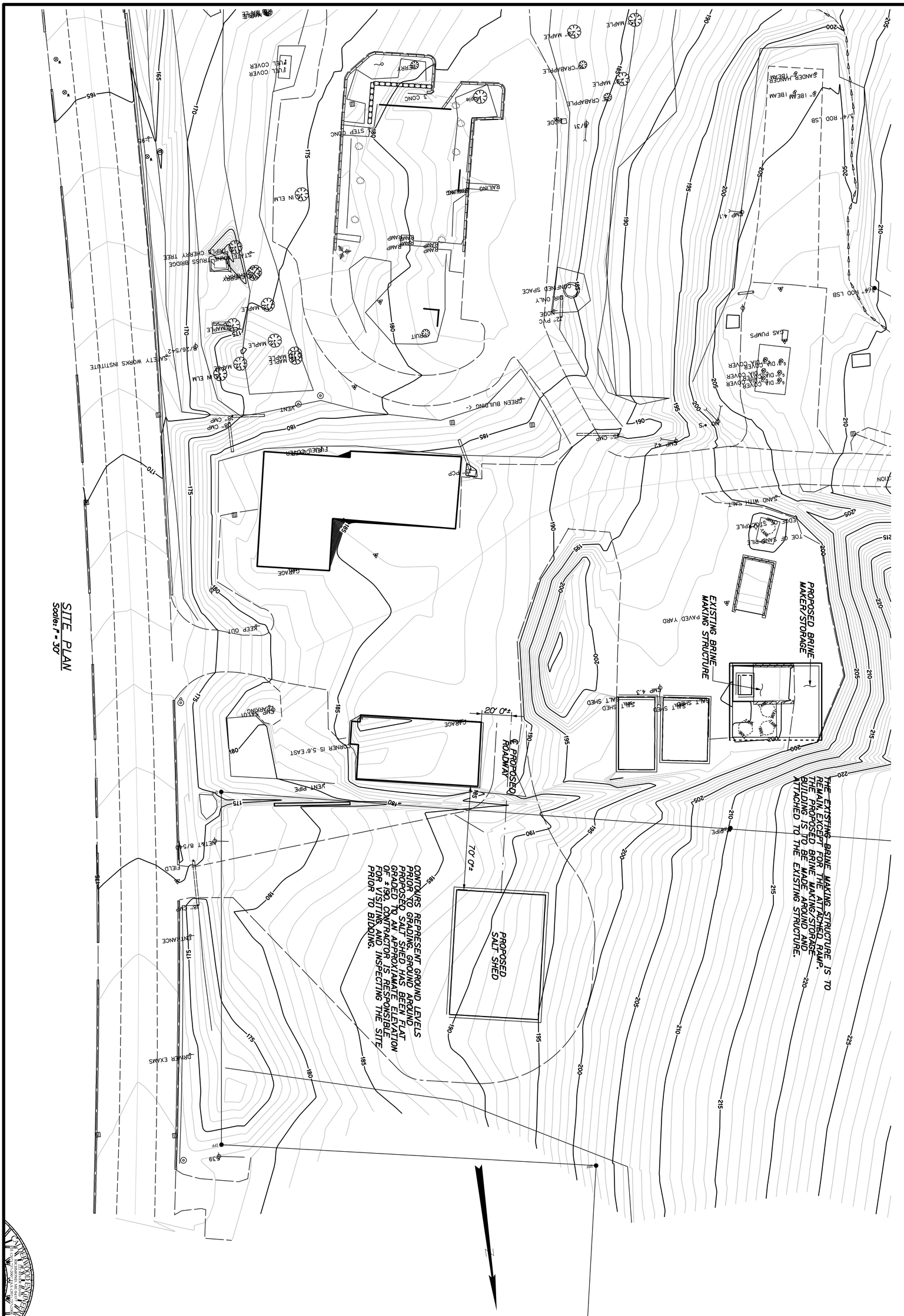
FAIRFIELD MAINT. BRINE STORAGE/MAKER

TITLE SHEET

SHEET NUMBER
1

CALDERWOOD ENGINEERING
82 RIVER ROAD
RICHMOND, ME 04357
PH: (207)737-2001 FAX: (207)737-2003

Filename: ...\brine storage\001_Title.dgn Workgroup: Structures Division Username: common Date:8/2/2010



CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DETAILING SERVICES
222 RIVER RD, RICHMOND, ME 04357 PH/FX (207)737-2007/(207) 737-2008

PREPARED FOR:
STATE OF MAINE DOT

FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

SHEET NUMBER 2

FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

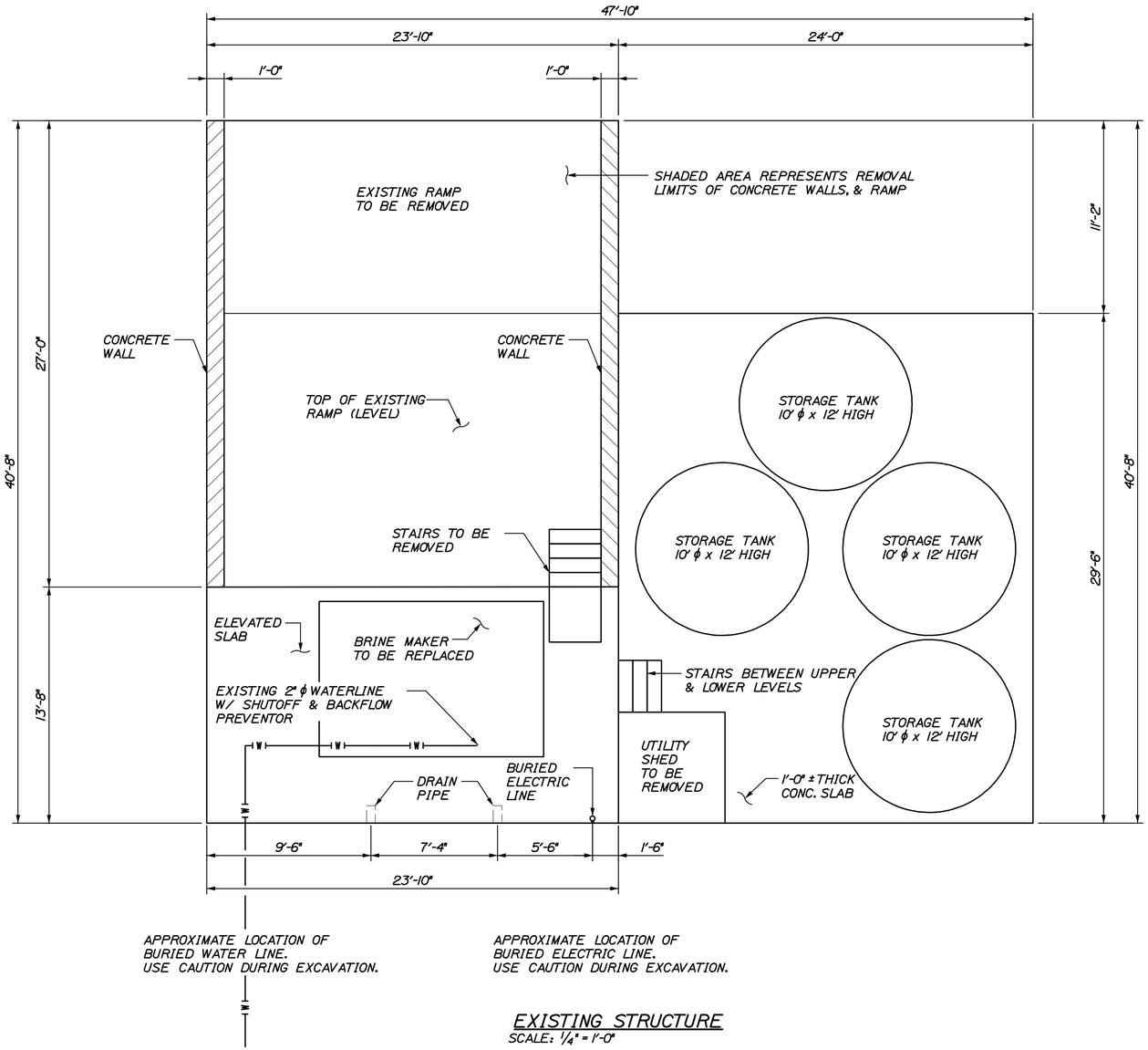
GENERAL SITE PLAN

	BY	DATE
DESIGN-DETAILED	JJH	JULY 10
CHECKED-REVIEWED	ETC	JULY 10
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

9099
P.E. NUMBER

DATE JULY 2010

STATE OF MAINE
ERIC T. CALDERWOOD
No. 9099
REGISTERED PROFESSIONAL ENGINEER



EXISTING STRUCTURE

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

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CEE 001-ST-10

STATE OF MAINE
ERIC J.
CALDERWOOD
No. 9099
LICENSED
PROFESSIONAL ENGINEER

P.E. NUMBER 9099

DATE JULY 2010

BY	DATE
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ETC	JULY 10

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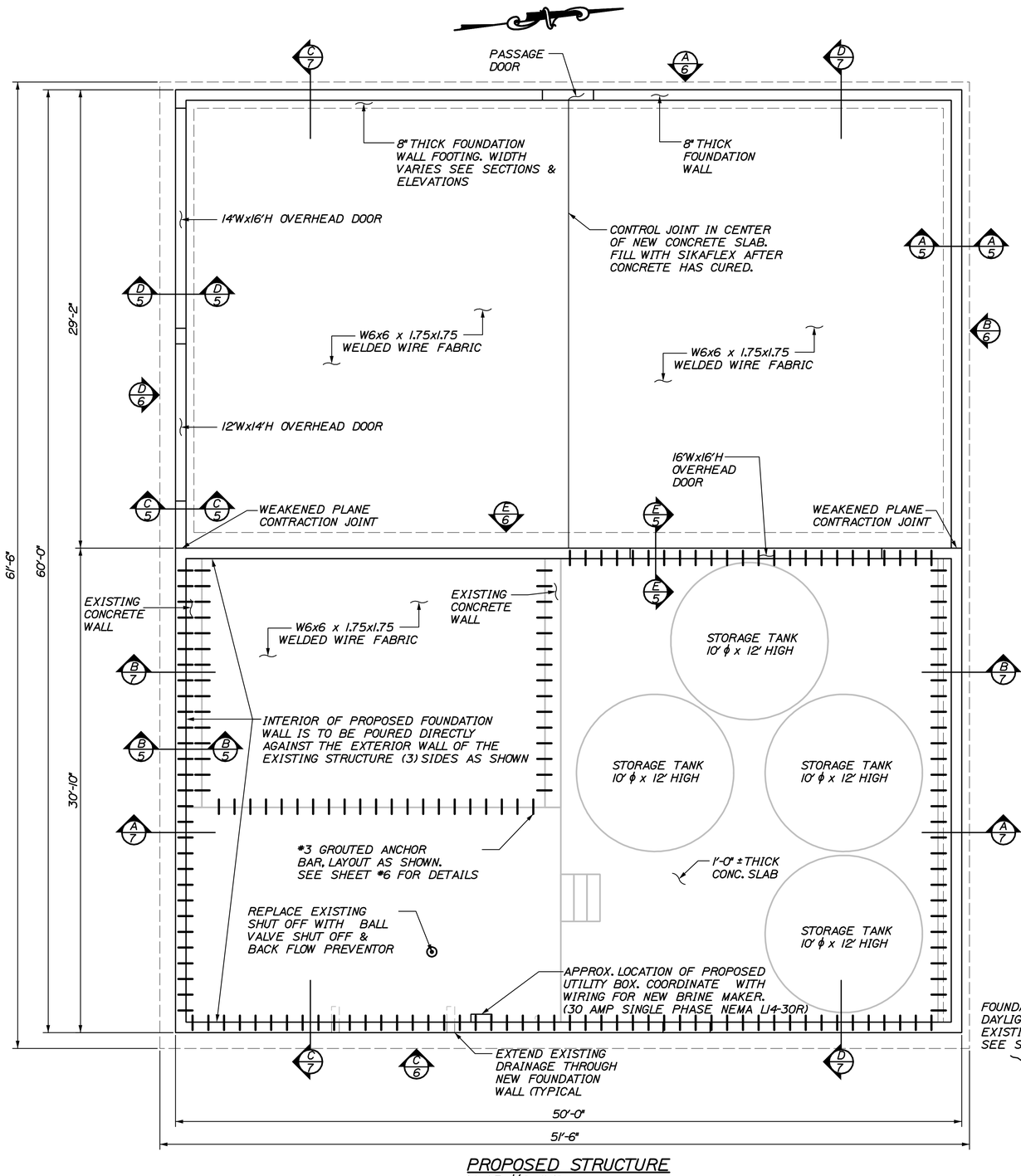
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

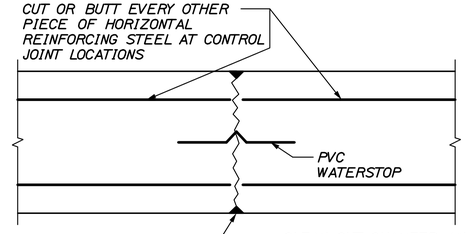
EXISTING STRUCTURE

SHEET NUMBER
3

Filename: ...\003_Existing_Structure.dgn Workgroup: Structures Division Username: common Date:8/2/2010



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



WEAKENED PLANE CONTROL JOINT
1 1/2" = 1'-0"

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REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

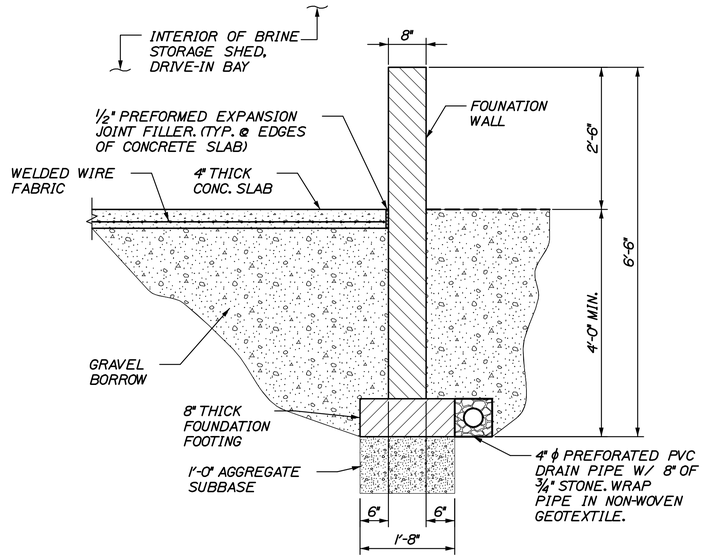
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

FOUNDATION PLAN

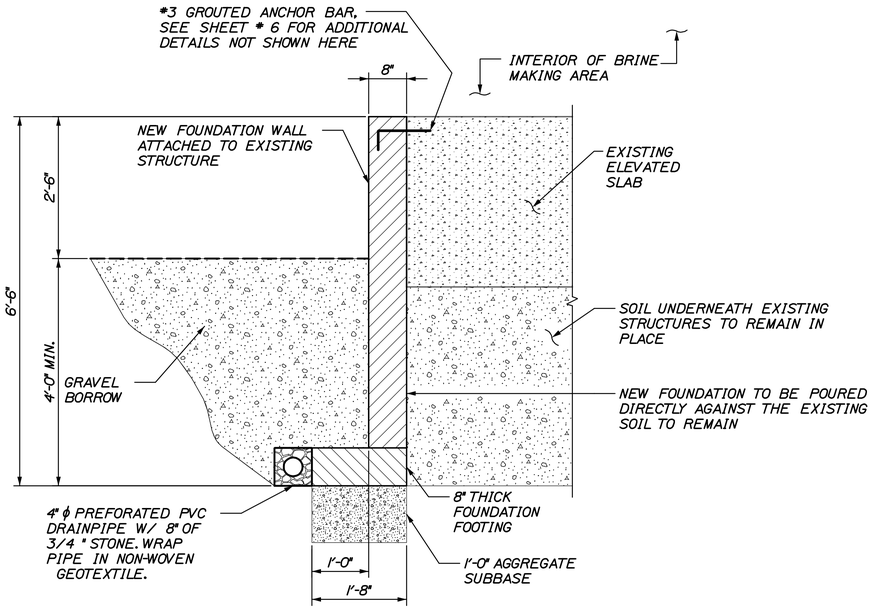
SHEET NUMBER
4

CALDERWOOD ENGINEERING
222 RIVER ROAD
RICHMOND, ME 04357
PH. (207)737-2007 FAX (207)737-2008

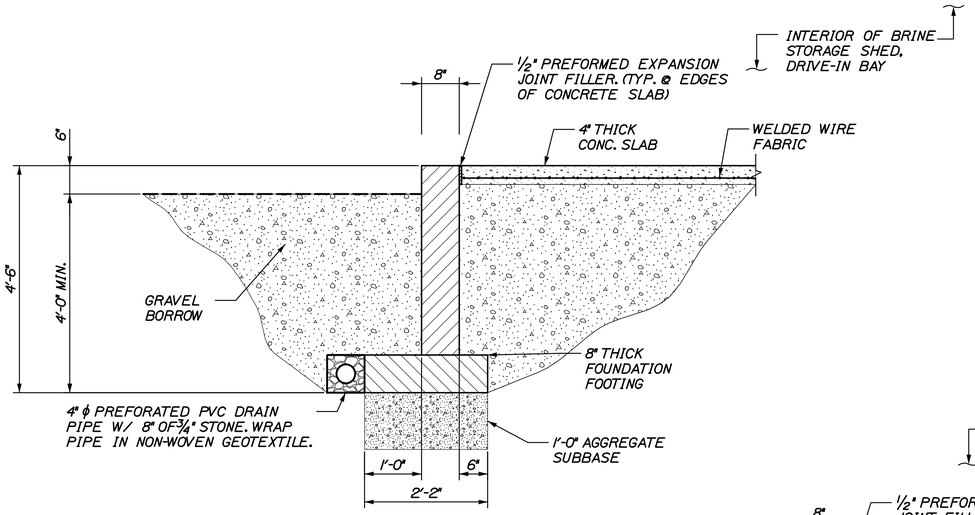
Filename: ...\004_Foundation.dgn Workgroup: Structures Division Username: common Date:8/2/2010



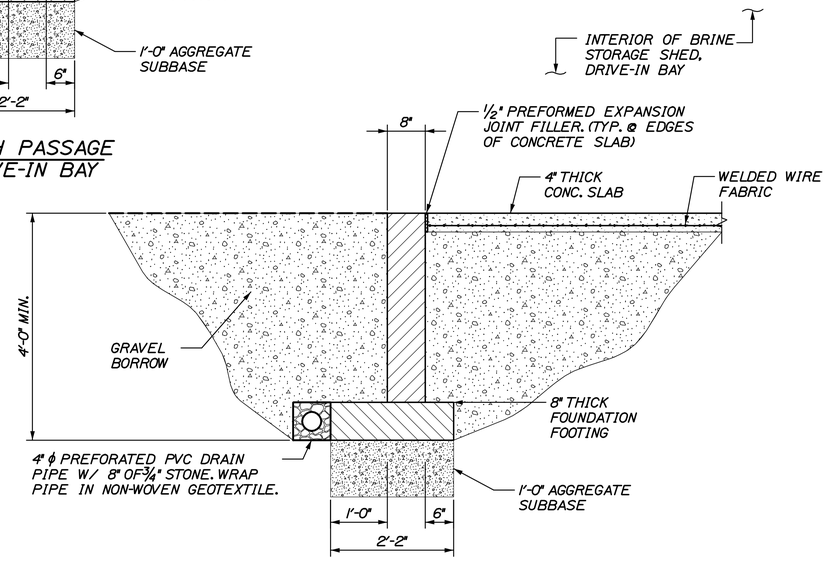
A/5 FOUNDATION NOT ATTACHING TO EXISTING STRUCTURE
SCALE: ¾" = 1'-0"



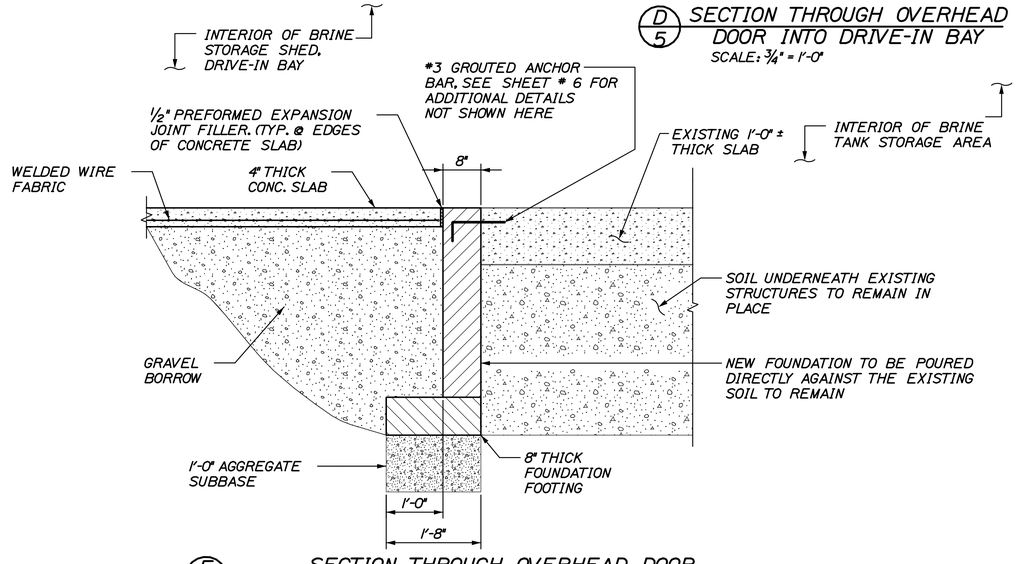
B/5 FOUNDATION ATTACHING TO EXISTING ELEVATED SLAB
SCALE: ¾" = 1'-0"



C/5 SECTION THROUGH PASSAGE DOOR INTO DRIVE-IN BAY
SCALE: ¾" = 1'-0"



D/5 SECTION THROUGH OVERHEAD DOOR INTO DRIVE-IN BAY
SCALE: ¾" = 1'-0"



E/5 SECTION THROUGH OVERHEAD DOOR BETWEEN DRIVE-IN BAY & BRINE TANK STORAGE
SCALE: ¾" = 1'-0"

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CEE 001-ST-10

STATE OF MAINE
ERIC J. CALDERWOOD
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FIELD CHANGES

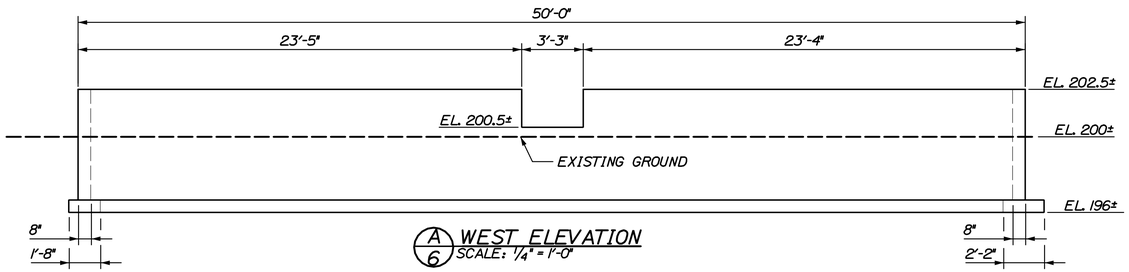
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

FOUNDATION SECTIONS

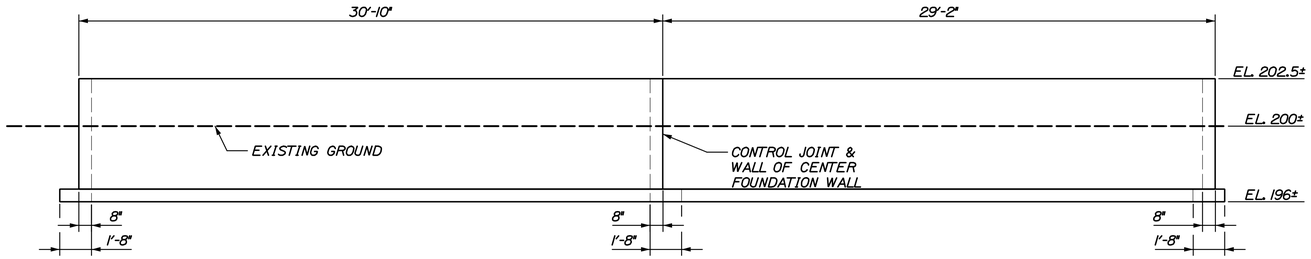
SHEET NUMBER
5

CALDERWOOD ENGINEERING, ETC. 222 RIVER RD. RICHMOND, ME 04357 PH/FX (207) 737-2007/(207) 737-2008

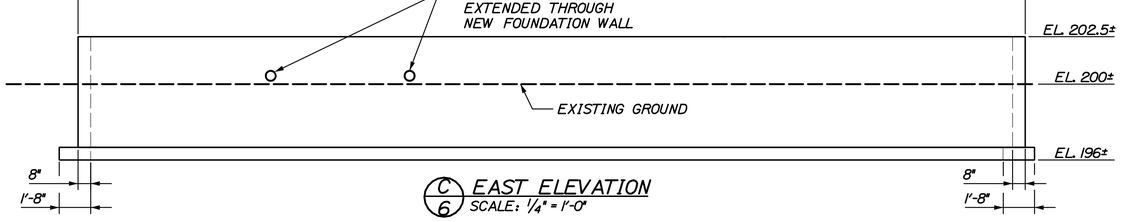
Filename: ...\005_Foundation_Sections.dgn Username: common
Xdgroup: Structures Division Date:8/2/2010



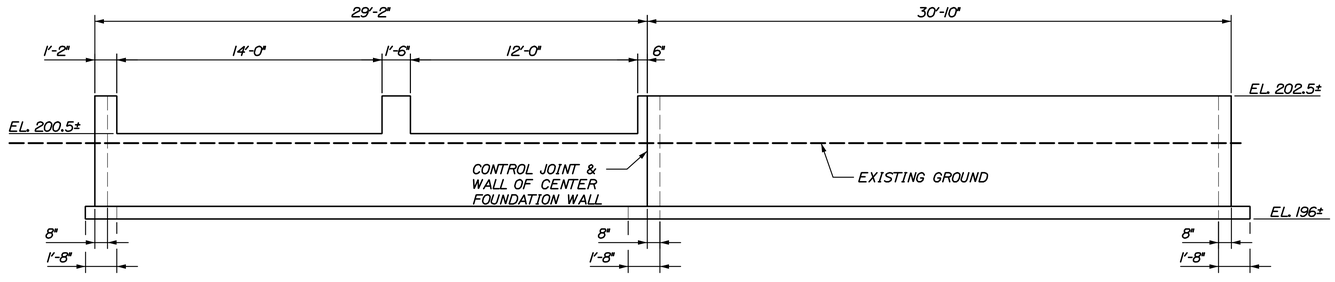
A/6 WEST ELEVATION
SCALE: 1/4" = 1'-0"



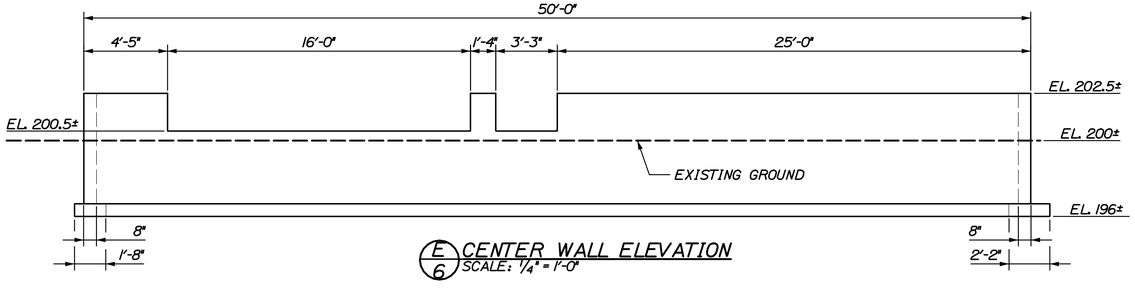
B/6 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



C/6 EAST ELEVATION
SCALE: 1/4" = 1'-0"



D/6 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



E/6 CENTER WALL ELEVATION
SCALE: 1/4" = 1'-0"

CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DETAILING SERVICES
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PREPARED FOR:
STATE OF MAINE DOT

FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

STATE OF MAINE
ERIC J.
CALDERWOOD
No. 9099
LICENSED
PROFESSIONAL ENGINEER

P.E. NUMBER 9099
DATE JULY 2010

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REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

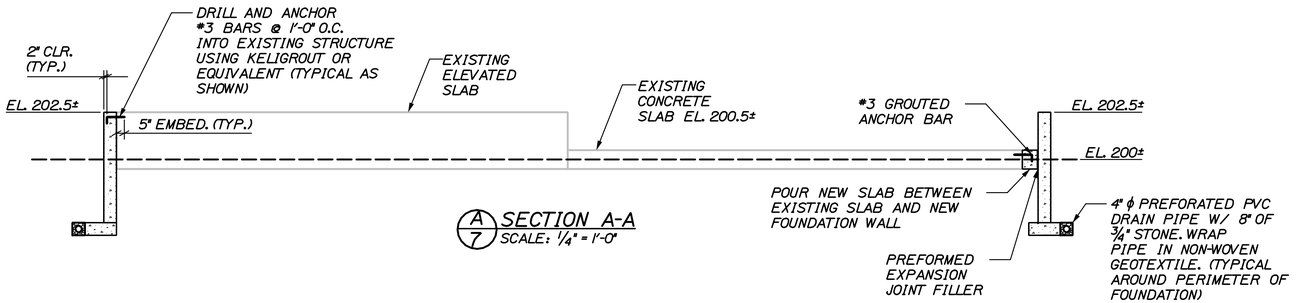
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

FOUNDATION ELEVATIONS

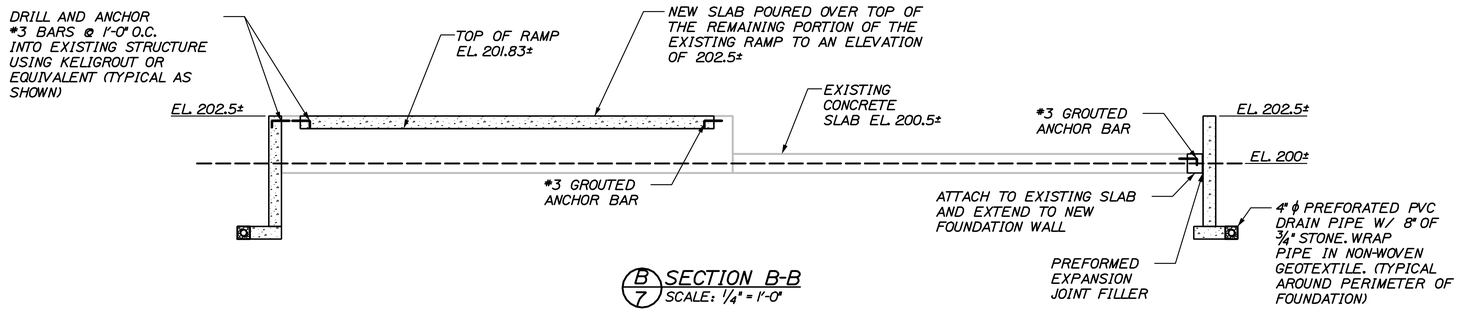
SHEET NUMBER
6

CALDERWOOD ENGINEERING, ETC.
222 RIVER RD.
RICHMOND, ME 04357
PH/FX (207)737-2007/(207) 737-2008

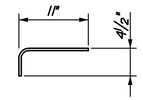
Filename: ...\006_Foundation_Elevations.dgn Username: common Date:8/2/2010
Workgroup: Structures Division



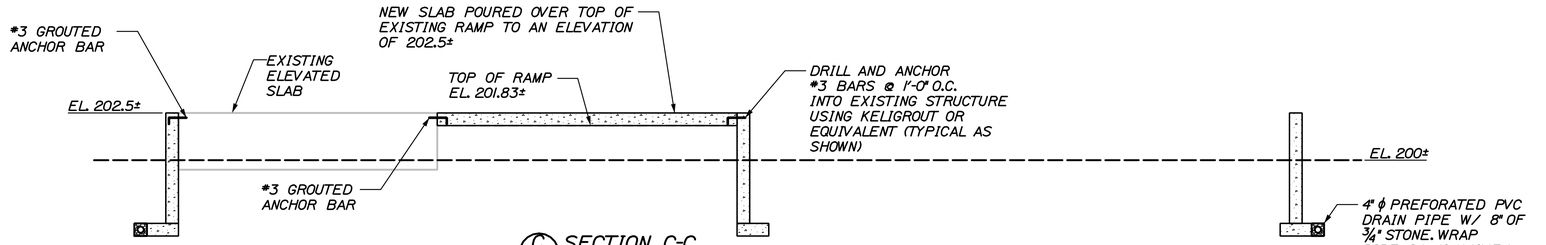
A/7 SECTION A-A
SCALE: 1/4" = 1'-0"



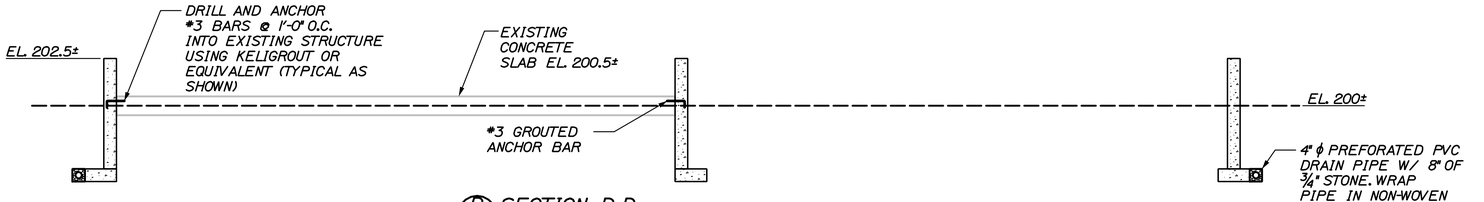
B/7 SECTION B-B
SCALE: 1/4" = 1'-0"



GROUTED BAR DETAIL
SCALE: 1" = 1'-0"



C/7 SECTION C-C
SCALE: 1/4" = 1'-0"



D/7 SECTION D-D
SCALE: 1/4" = 1'-0"

CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DETAILING SERVICES
222 RIVER RD. RICHMOND, ME 04357 PH/FX (207)737-2007/(207) 737-2008

PREPARED FOR:
STATE OF MAINE DOT

FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

STATE OF MAINE
ERIC J.
CALDERWOOD
No. 9099
LICENSED
PROFESSIONAL ENGINEER

P.E. NUMBER 9099
DATE JULY 2010

BY	DATE
JJH	JULY 10
ETC	JULY 10

DESIGN-DETAILED
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REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

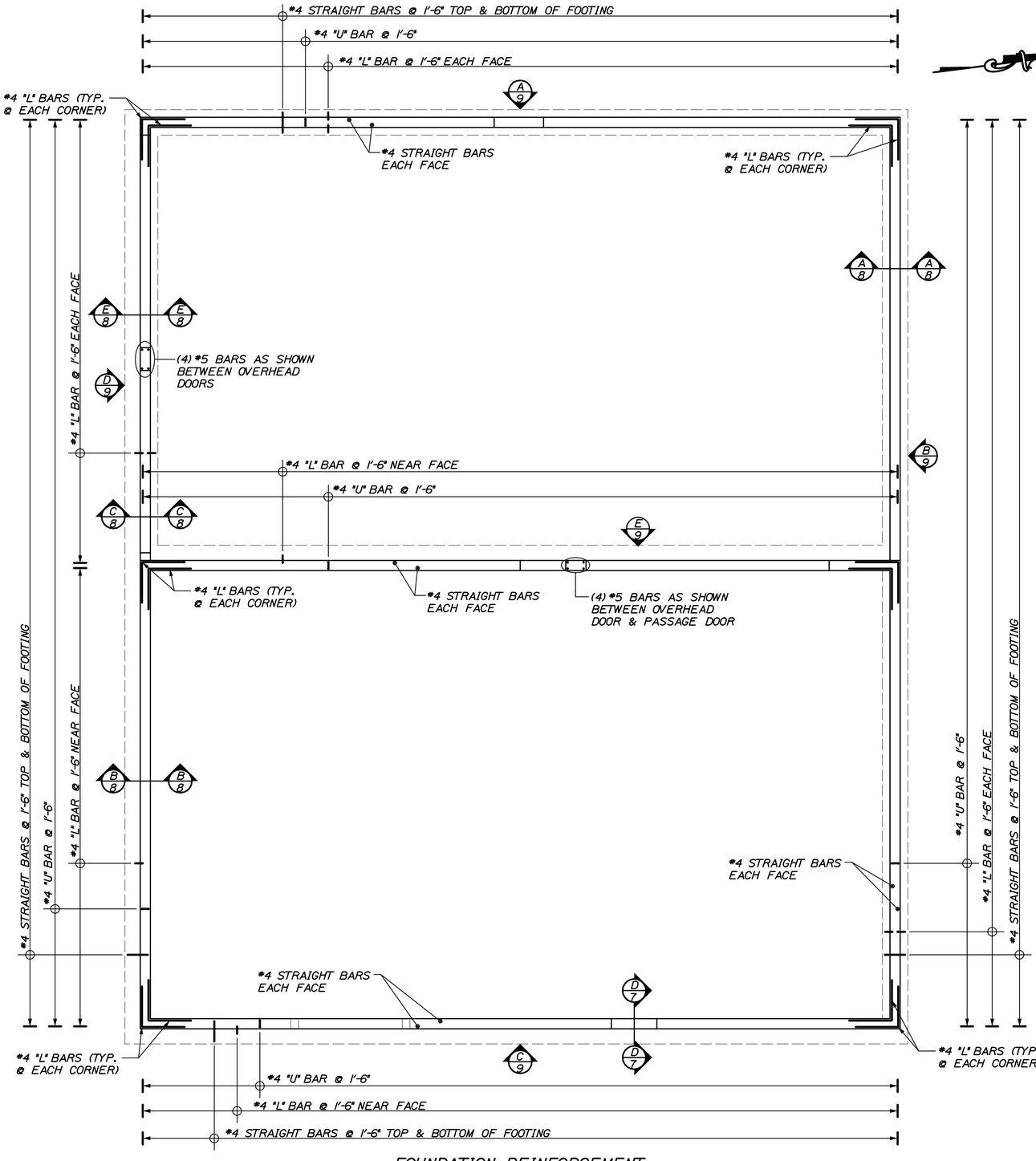
FAIRFIELD MAINTANANCE
BRINE STORAGE/MAKER

CONNECTION TO
EXISTING STRUCTURE

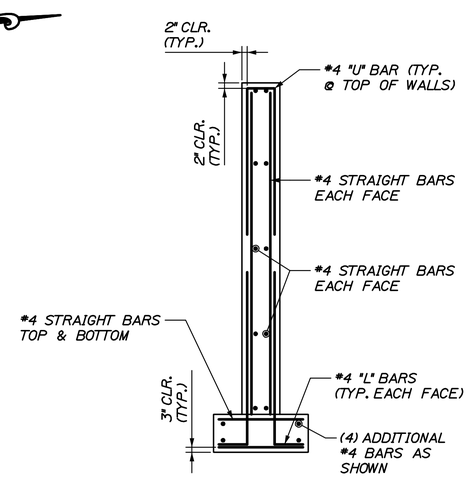
SHEET NUMBER
7

CALDERWOOD ENGINEERING
ERIC J. CALDERWOOD, P.E.
RICHMOND, ME 04357
TEL (207) 737-2007 FAX (207) 737-2008

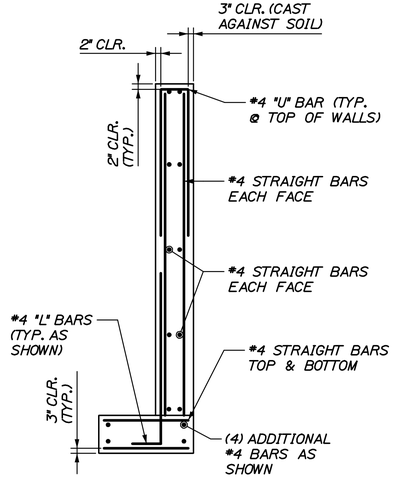
Filename: ...\007_Connection_To_Existing_Structure.dgn Username: common Date:8/2/2010
Working Group: Structures Division



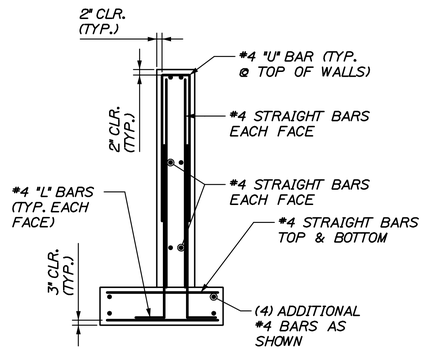
FOUNDATION REINFORCEMENT
SCALE: 1/4" = 1'-0"



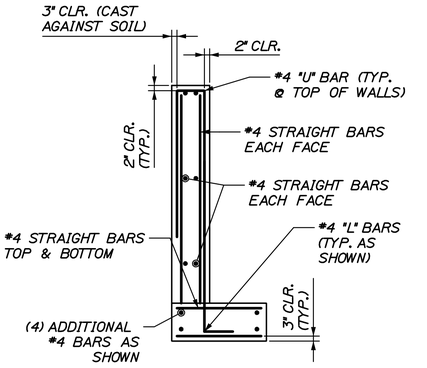
A/8 SECTION A-A
SCALE: 3/4" = 1'-0"



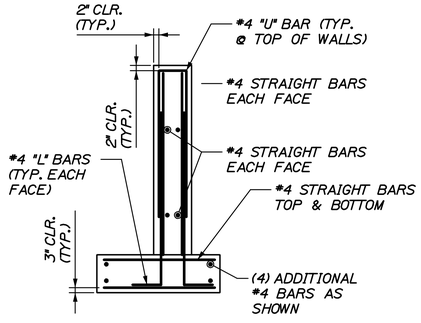
B/8 SECTION B-B
SCALE: 3/4" = 1'-0"



C/8 SECTION C-C
SCALE: 3/4" = 1'-0"



D/8 SECTION D-D
SCALE: 3/4" = 1'-0"



E/8 SECTION E-E
SCALE: 3/4" = 1'-0"

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CEE 001-ST-10

STATE OF MAINE
ERIC J.
CALDERWOOD
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REVISIONS 4
FIELD CHANGES

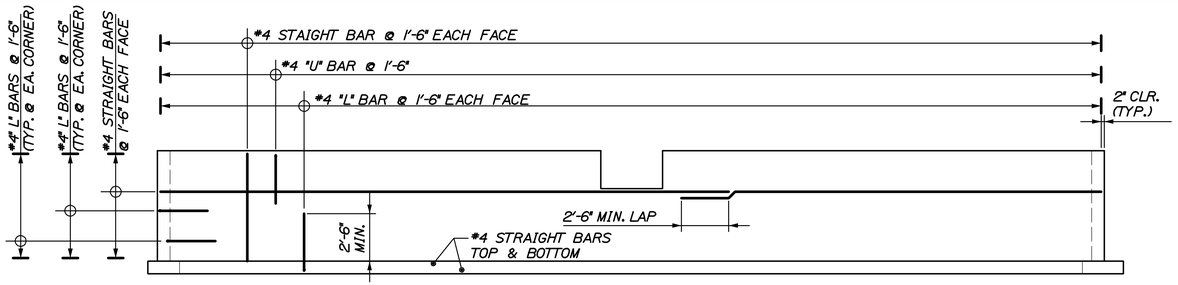
FAIRFIELD MAINTANANCE
BRINE STORAGE/MAKER

FOUNDATION REINFORCING DETAILS

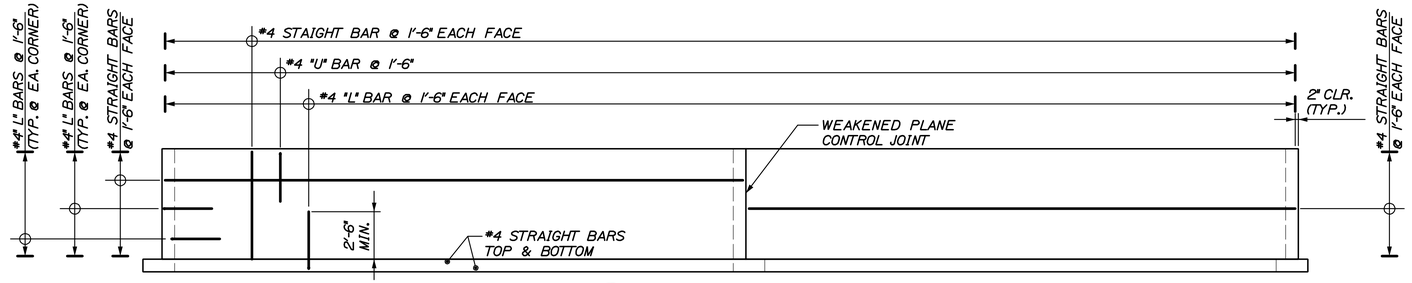
SHEET NUMBER
8

CALDERWOOD ENGINEERING
222 RIVER ROAD
RICHMOND, ME 04357
TEL (207)737-2007 FAX (207)737-2008

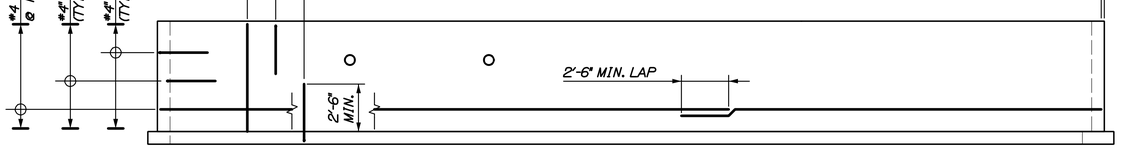
Filename: ...\008_Foundation_Plan_Rafter.dgn Date:8/2/2010
Username: common
Maine Department of Transportation Bridge Design Structures Division



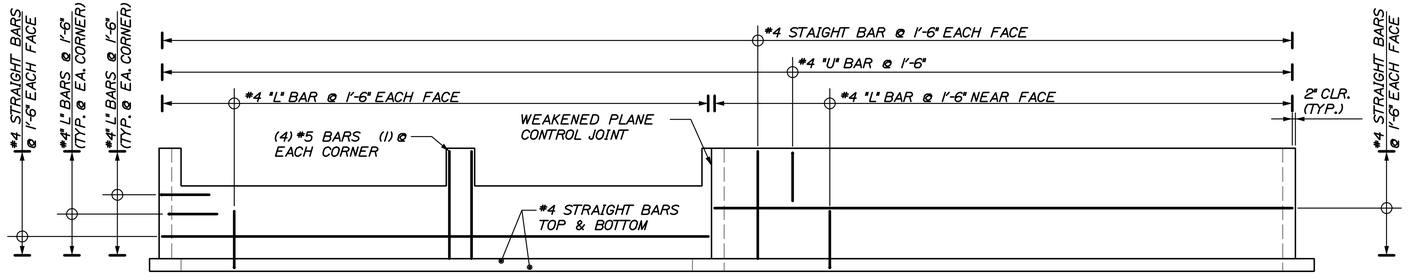
A/9 WEST WALL REINFORCEMENT
SCALE: 1/4" = 1'-0"



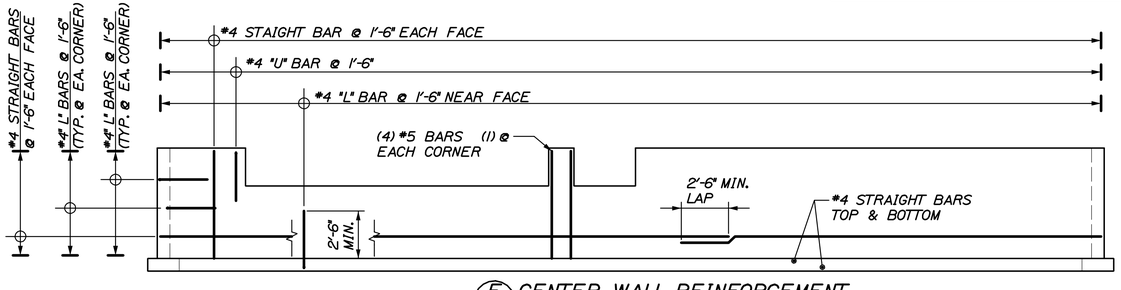
B/9 NORTH WALL REINFORCEMENT
SCALE: 1/4" = 1'-0"



C/9 EAST WALL REINFORCEMENT
SCALE: 1/4" = 1'-0"



D/9 SOUTH WALL REINFORCEMENT
SCALE: 1/4" = 1'-0"



E/9 CENTER WALL REINFORCEMENT
SCALE: 1/4" = 1'-0"

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FAIRFIELD, ME BRINE BUILING
CEE 001-ST-10

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ERIC A. CALDERWOOD
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FAIRFIELD MAINTANANCE
BRINE STORAGE/MAKER

FOUNDATION REINFORCING
ELEVATIONS

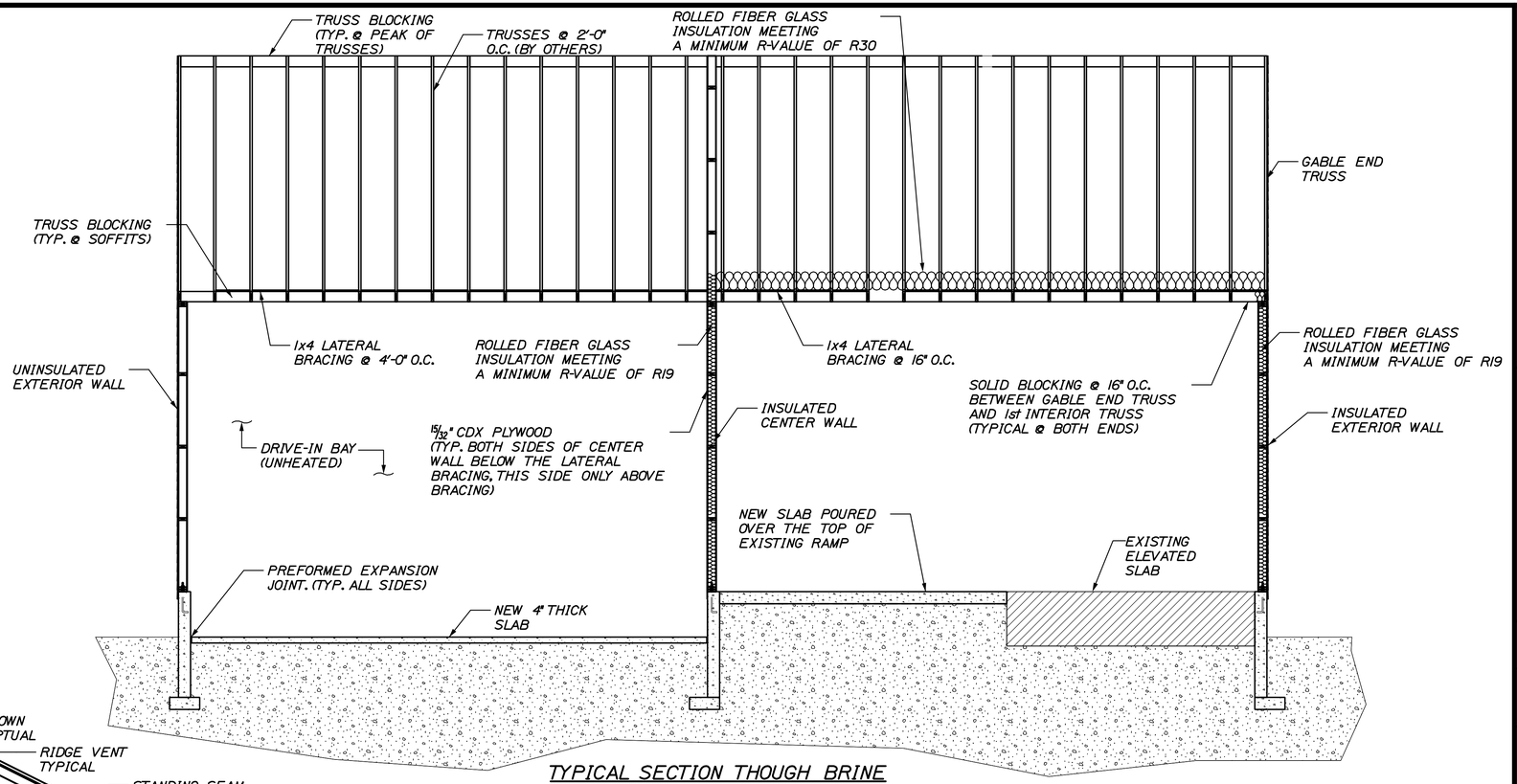
SHEET NUMBER
9

CALDERWOOD ENGINEERING
222 RIVER RD.
RICHMOND, ME 04357
PH. (207)737-2007 FAX (207)737-2008

Filename: ...\009_Foundation_Elevation_Reinforcing.dgn Username: common Date:8/2/2010
Engineering Structures Division

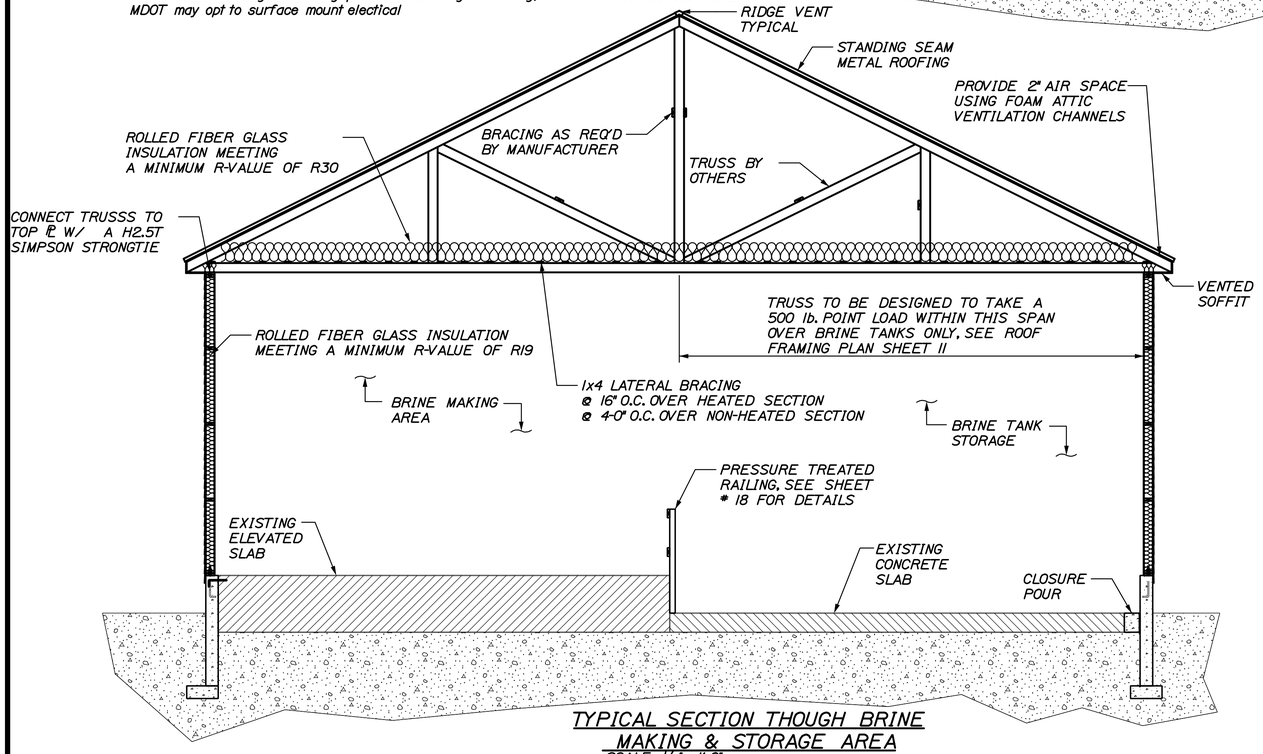
GENERAL NOTES

1. All concrete shall have a minimum compressive strength of 4350 psi and must meet Maine DOT Standard Specifications for Class 'A' concrete.
2. All reinforcing steel shall have a minimum cover of 2" in the concrete walls and footings unless noted otherwise (UNO). 3" of cover required when cast directly against soil.
3. All reinforcing steel shall be epoxy coated.
4. All reinforcing steel shall have a minimum specified yield strength of 60ksi.
5. All walls to be constructed with SPF#2 or better. All members adjacent to concrete, as well as all members used in the construction of stairs and railings shall be SPF # 2 or better & pressure treated with MCA-C.I4.
6. Nails that connect pressure treated elements to the structure shall be galvanized.
7. J-bolts shall be ASTM F1554 Gr. 36. with a minimum of 7" embedment and 5" projection. Contractor to coordinate layout of anchor rods @ 6'-0" O.C. or a minimum of (2) rods in each bottom plate of walls prior to casting of foundation.
8. All construction joints shall be in accordance with Maine DOT Standard Detail 502(01)
9. All footings shall be buried a minimum of 4' below finished grade. All walls shall have a minimum of 2'-0" of exposed height along the outside of the building.
10. All gravel borrow shall meet the requirements of Maine DOT Standard 703.20
11. The proposed structure shall be designed to meet all applicable site location loads per the 2009 International Building Code (IBC) and all other federal, state and municipal requirements.
12. Electrical wiring to be done by a MDOT personnel and coordinated with the contractor. If MDOT personnel are not available to rough-in wiring prior to installing sheathing, MDOT may opt to surface mount electical



TYPICAL SECTION THOUGH BRINE MAKING AREA & DRIVE-IN BAY

SCALE: 1/4" = 1'-0"
SEE SHEET 11-15 FOR DETAILS NOT SHOWN HERE



TYPICAL SECTION THOUGH BRINE MAKING & STORAGE AREA

SCALE: 1/4" = 1'-0"
SEE SHEET 11-16 FOR DETAILS NOT SHOWN HERE

CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DETAILING SERVICES
222 RIVER RD, RICHMOND, ME 04357 PH/FX (207)737-2007/(207) 737-2008

PREPARED FOR: STATE OF MAINE DOT

FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

STATE OF MAINE ★ ERIC J. CALDERWOOD No. 9099 ★ LICENSED PROFESSIONAL ENGINEER

P.E. NUMBER 9099

DATE JULY 2010

BY	DATE
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ETC	JULY 10

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FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

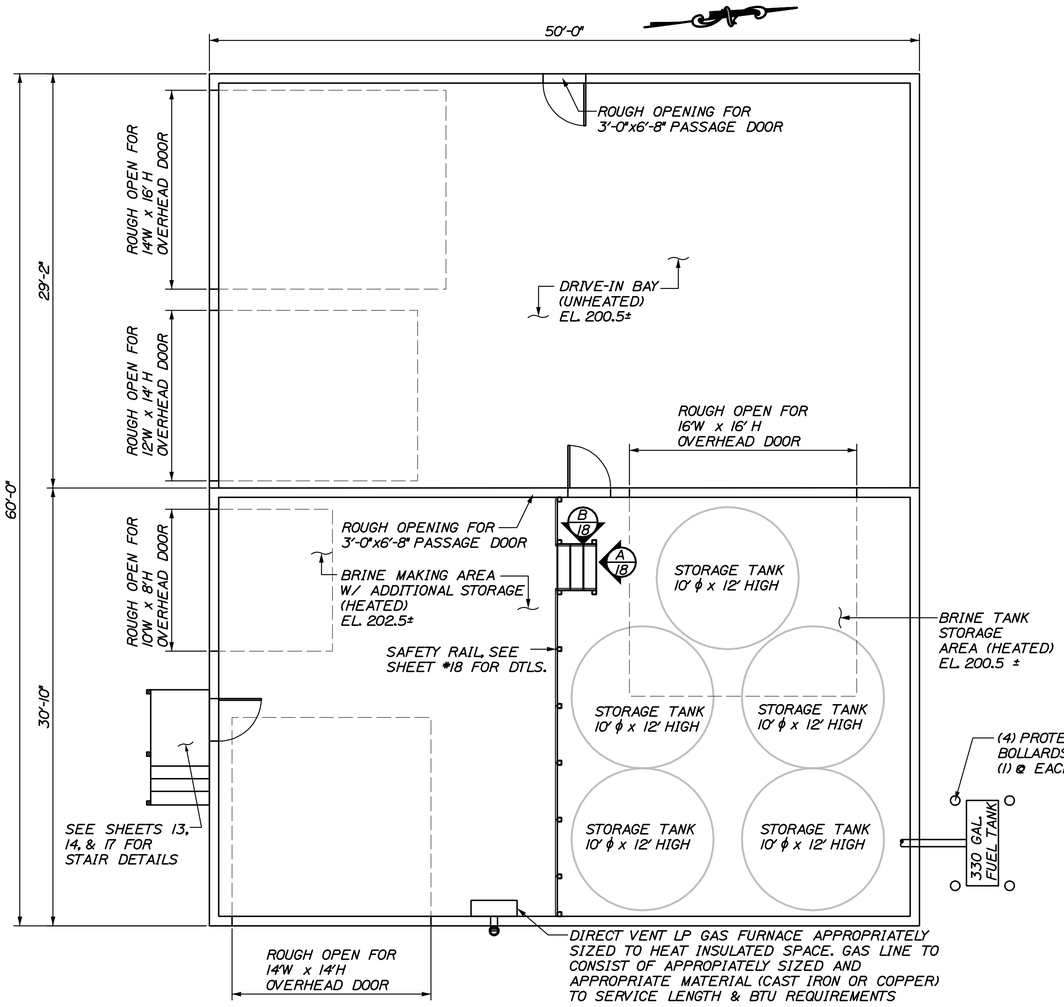
TYPICAL SECTIONS

SHEET NUMBER
10

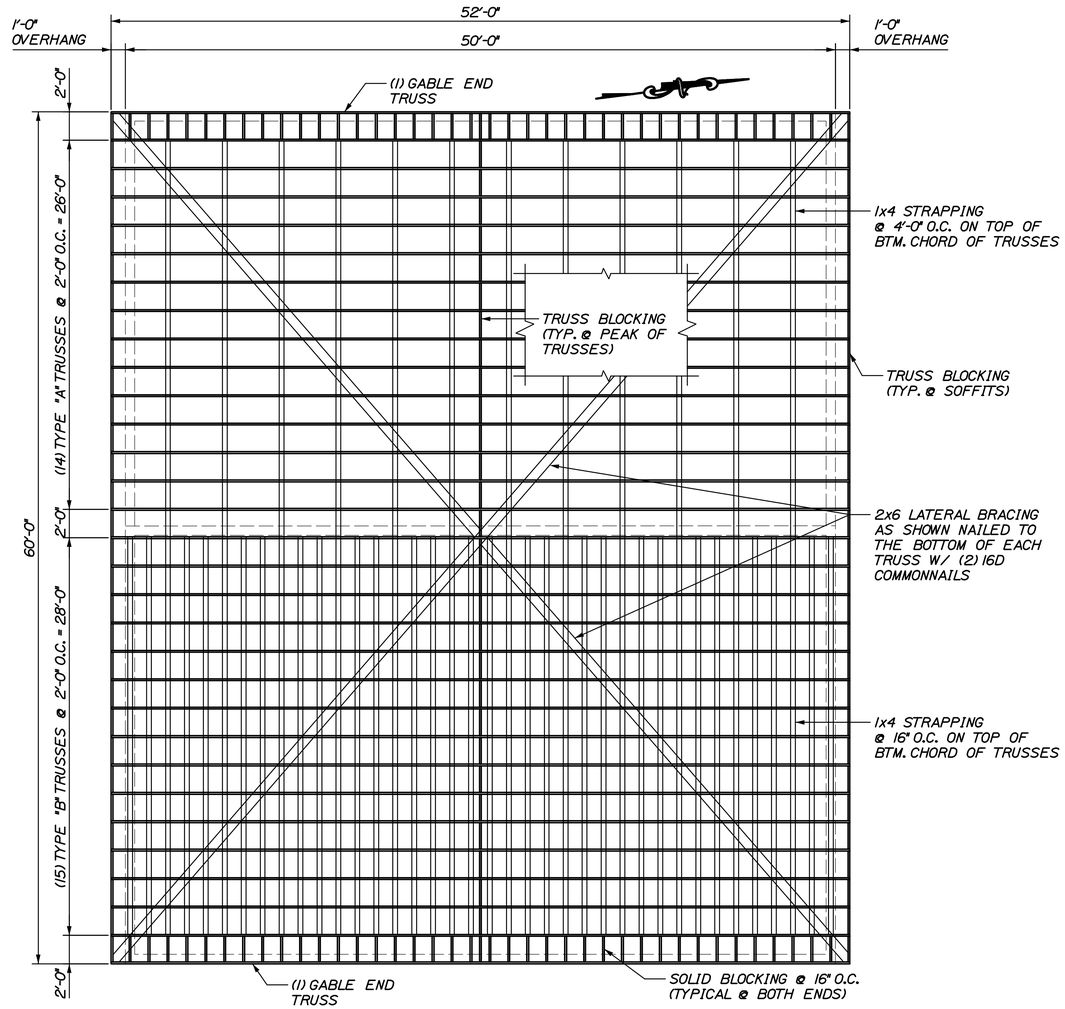
CALDERWOOD ENGINEERING, ETC. ERIC J. CALDERWOOD RICHMOND, ME 04357 (207)737-2007/(207)737-2008

Filename: ...\010_Typical_Section.dgn Workgroup: Structures Division Username: common Date:8/2/2010

Filename: ...\011_Floor_Roof_Plans.dgn Workgroup: Structures Division Username: common Date:8/2/2010



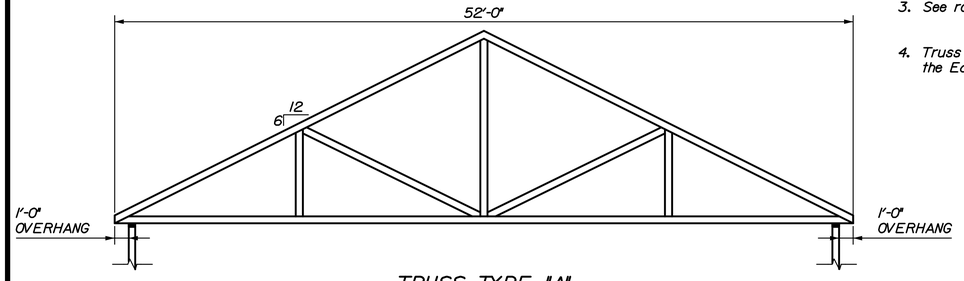
FLOOR PLAN
SCALE: 3/16" = 1'-0"



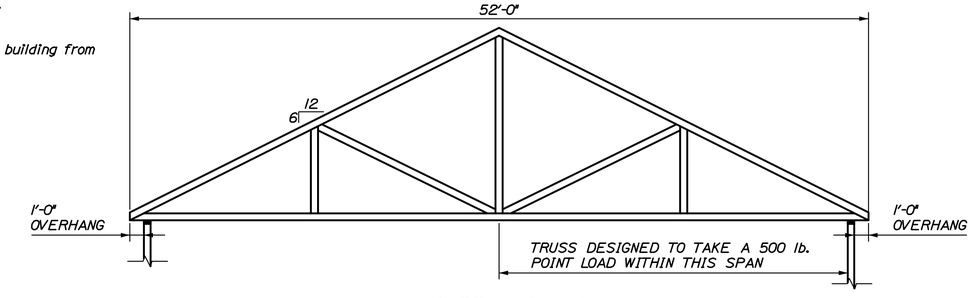
ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

TRUSS NOTES

1. Truss spacing shall be 2'-0" O.C. unless noted otherwise.
2. Contractor shall be responsible for all temporary bracing on trusses during construction. Permanent bracing shall be as specified by truss manufacturer.
3. See roof framing plan for bracing locations.
4. Truss orientaion is based upon viewing the building from the East elevation looking West.



TRUSS TYPE "A"
SCALE: 3/16" = 1'-0"
TRUSS SHOWN IS CONCEPTUAL



TRUSS TYPE "B"
SCALE: 3/16" = 1'-0"
TRUSS SHOWN IS CONCEPTUAL

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STATE OF MAINE
FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

STATE OF MAINE ERIC J. CALDERWOOD No. 9099 LICENSED PROFESSIONAL ENGINEER

P.E. NUMBER 9099
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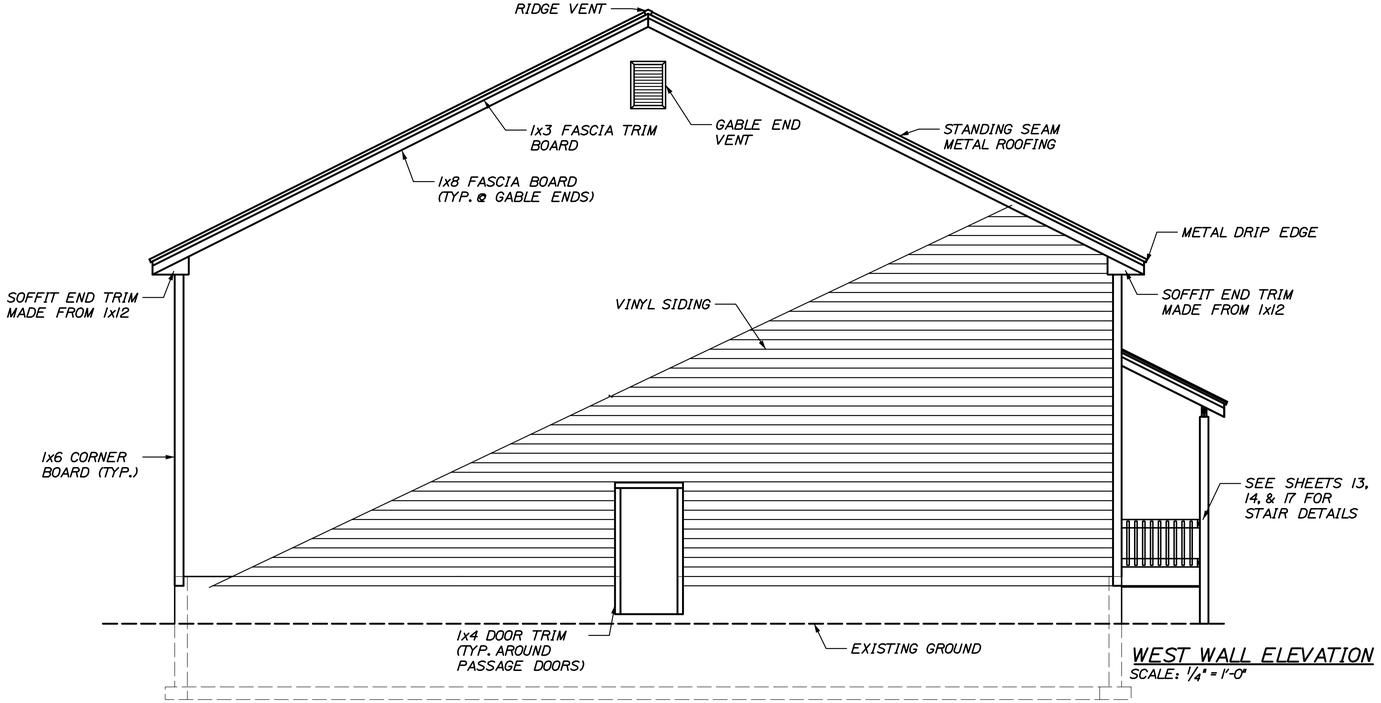
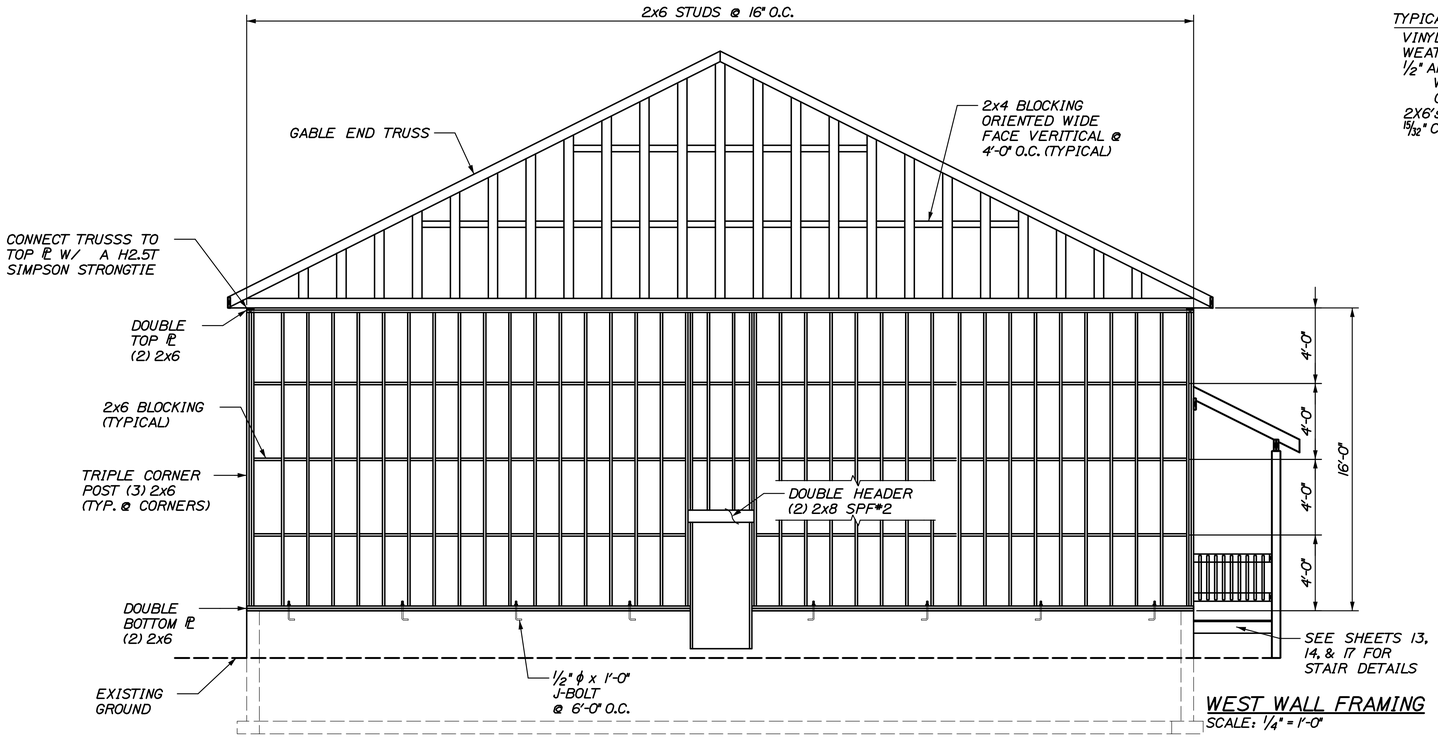
FLOOR PLAN & ROOF FRAMING PLAN

SHEET NUMBER
11

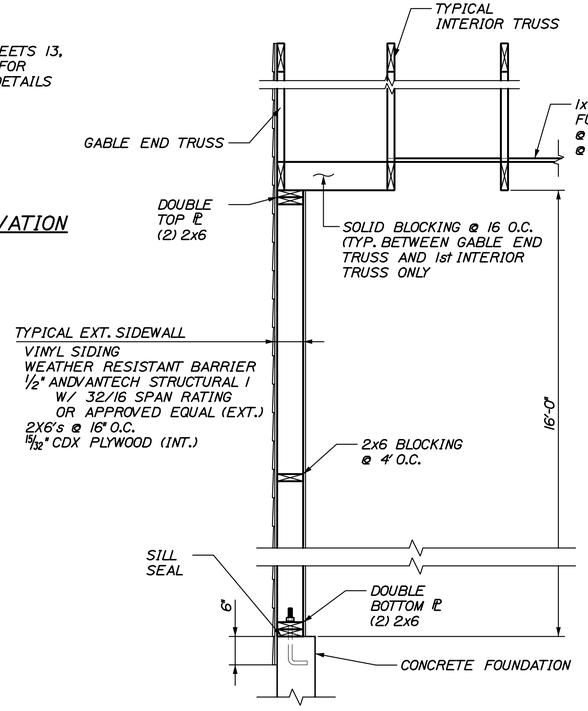
CALDERWOOD ENGINEERING ERIC J. CALDERWOOD No. 9099 RICHMOND, ME 04357 TEL. (207)737-2007 FAX (207)737-2008



WEST WALL ELEVATION
SCALE: 1/4" = 1'-0"



WEST WALL FRAMING
SCALE: 1/4" = 1'-0"



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

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FAIRFIELD, ME BRINE BUILDING
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STATE OF MAINE
ERIC J.
CALDERWOOD
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LICENSED
PROFESSIONAL ENGINEER

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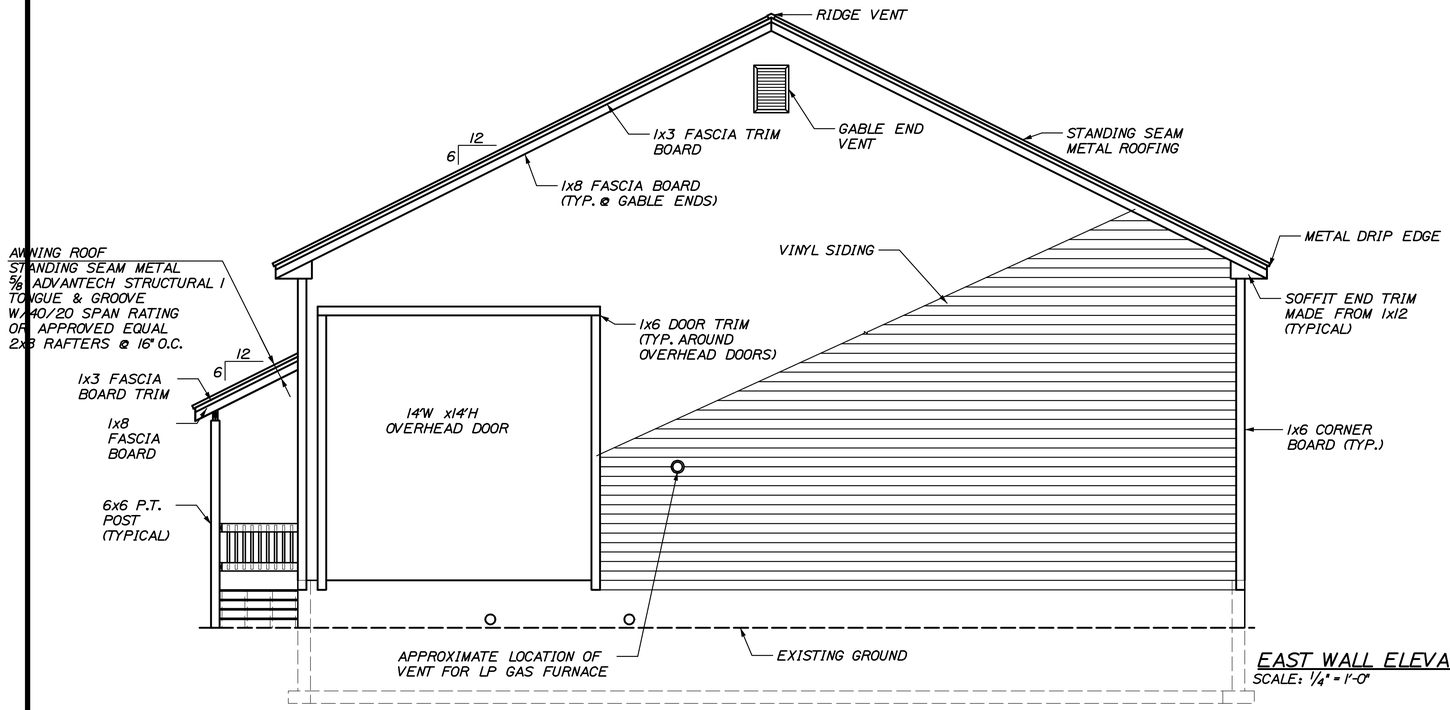
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

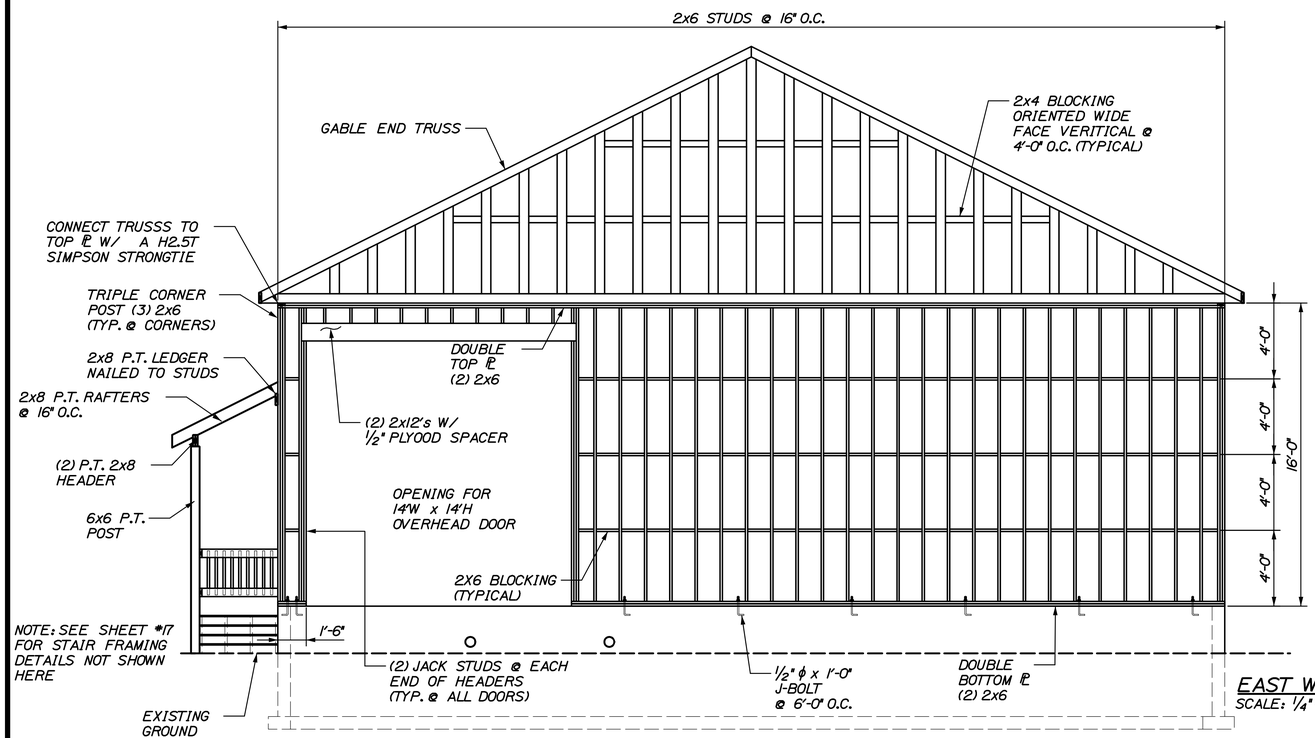
WEST WALL ELEVATION & FRAMING

SHEET NUMBER
12

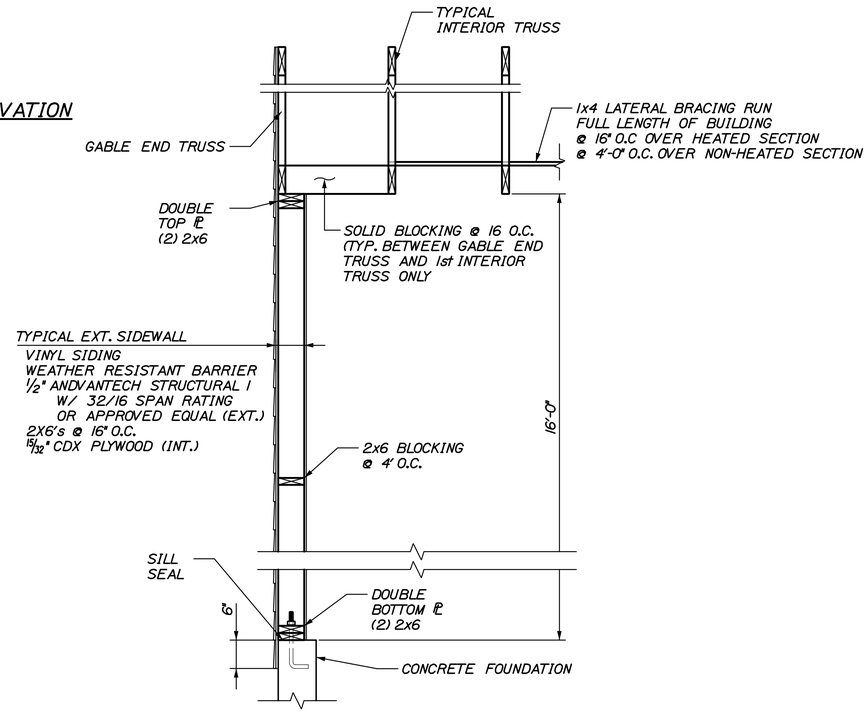
Filename: ...\012_West_Wall.dgn Workgroup: Structures Division Username: common Date:8/2/2010



EAST WALL ELEVATION
SCALE: 1/4" = 1'-0"



EAST WALL FRAMING
SCALE: 1/4" = 1'-0"



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

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STATE OF MAINE

FAIRFIELD, ME BRINE BUILDING
CEE 001-ST-10

STATE OF MAINE
ERIC T. CALDERWOOD
No. 9099
PROFESSIONAL ENGINEER

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FAIRFIELD MAINTANANCE
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EAST WALL ELEVATION
& FRAMING

SHEET NUMBER
13

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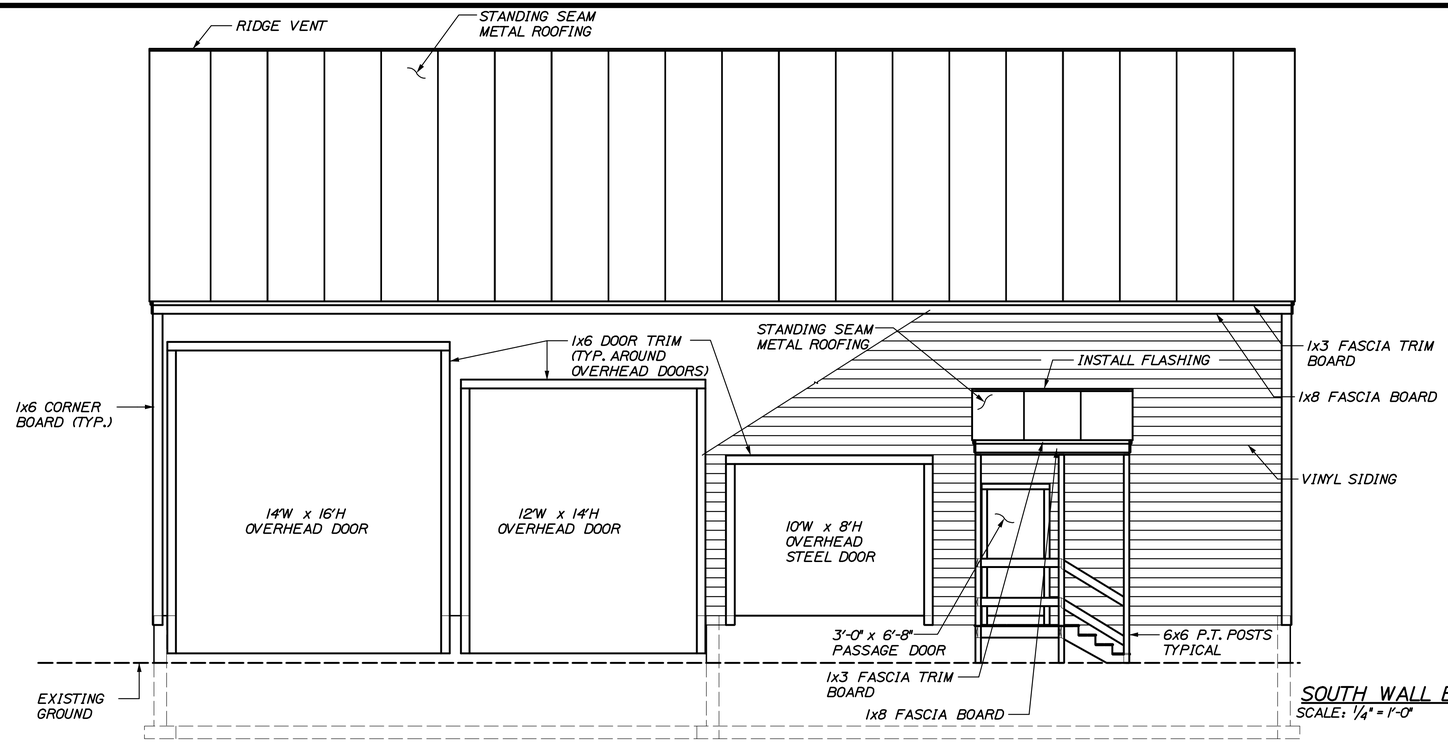
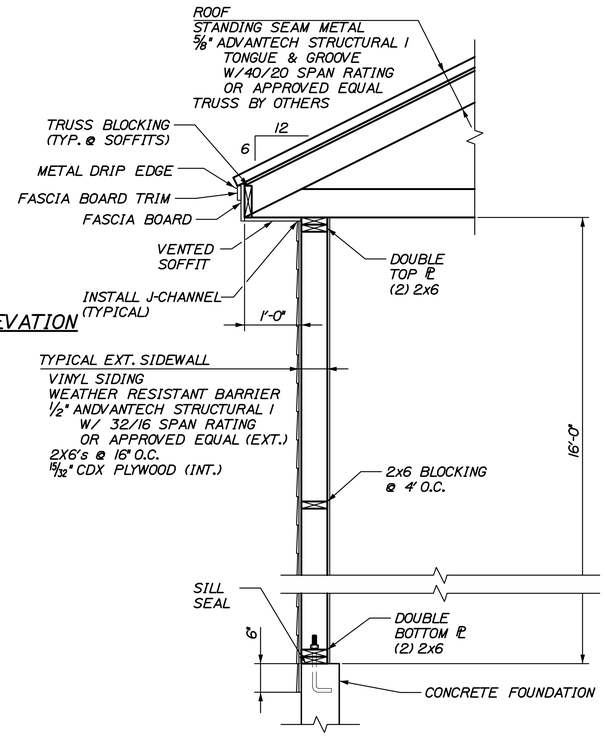
ERIC T. CALDERWOOD
RICHMOND, ME 04357
(207) 737-2007 FAX (207) 737-2008

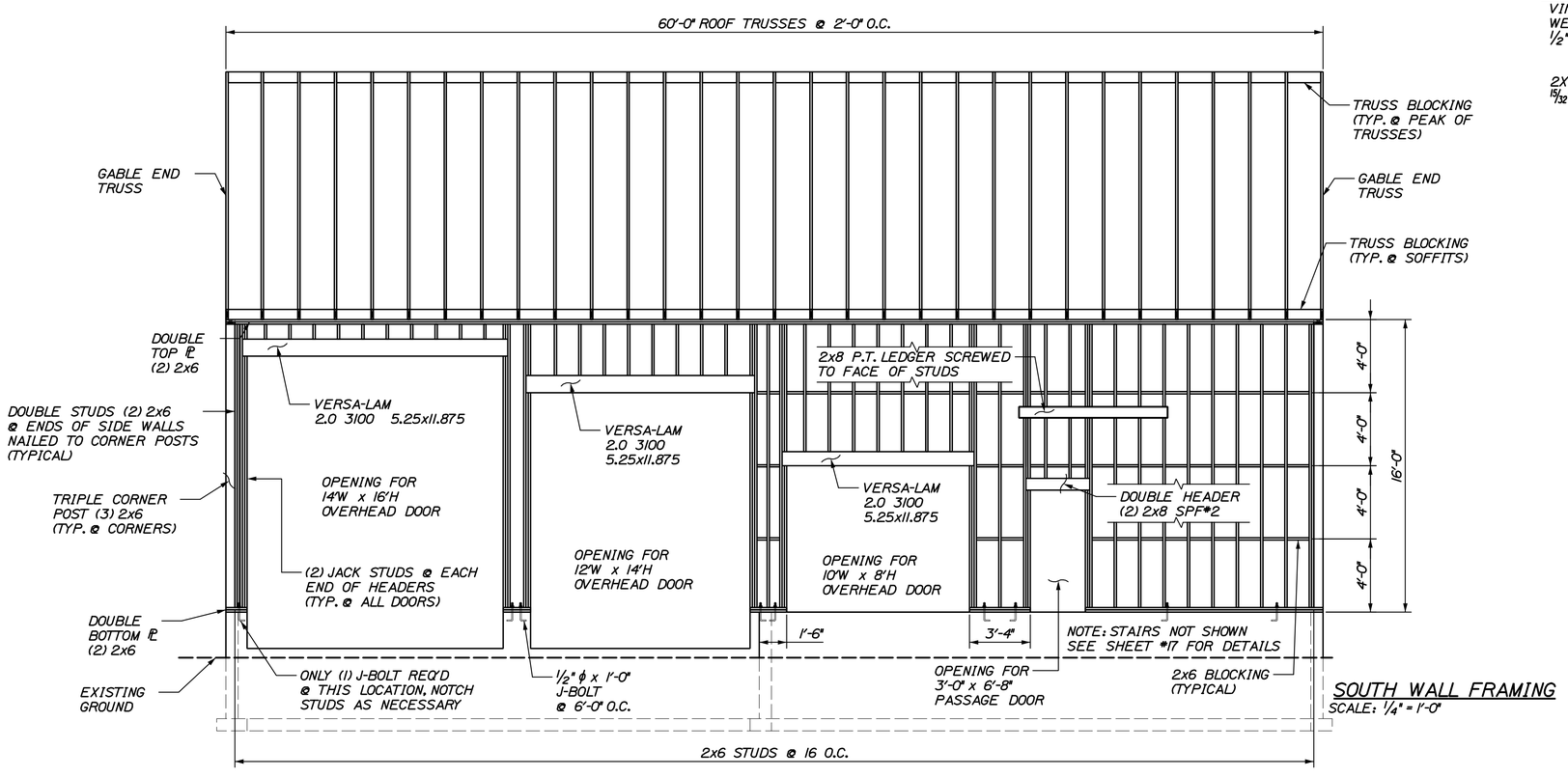
Date:8/2/2010
Username: common
Workgroup: Structures Division
Filename: ...\013_East_Wall.dgn



SOUTH WALL ELEVATION
SCALE: 1/4" = 1'-0"



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



SOUTH WALL FRAMING
SCALE: 1/4" = 1'-0"

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STATE OF MAINE
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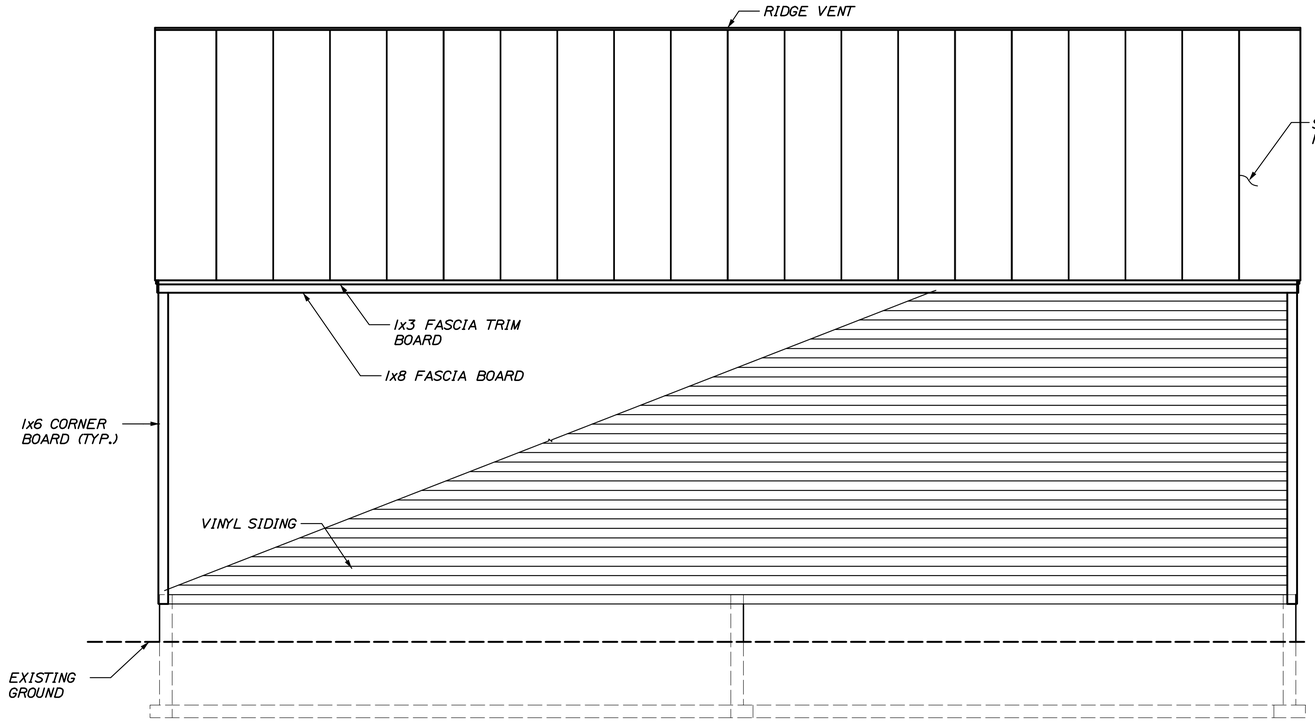
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

SOUTH WALL ELEVATION & FRAMING

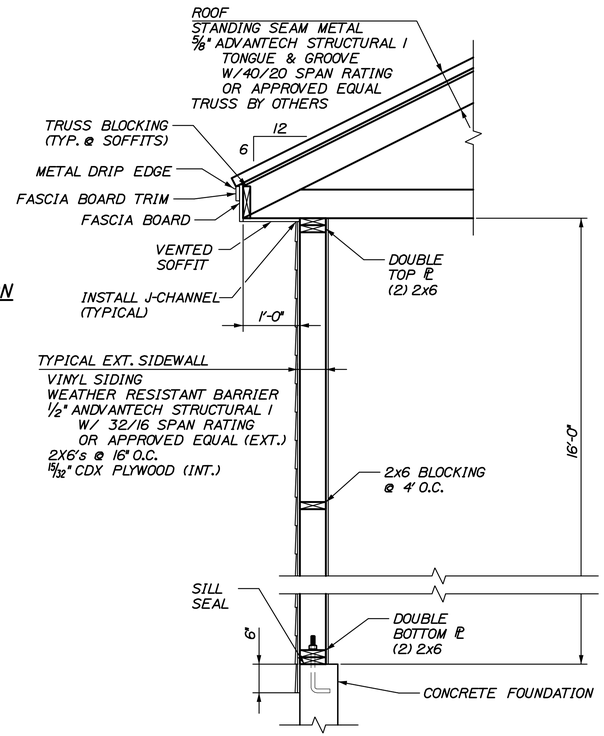
SHEET NUMBER
14

CALDERWOOD ENGINEERING
222 RIVER ROAD
RICHMOND, ME 04357
PH (207)737-2007 FAX (207)737-2008

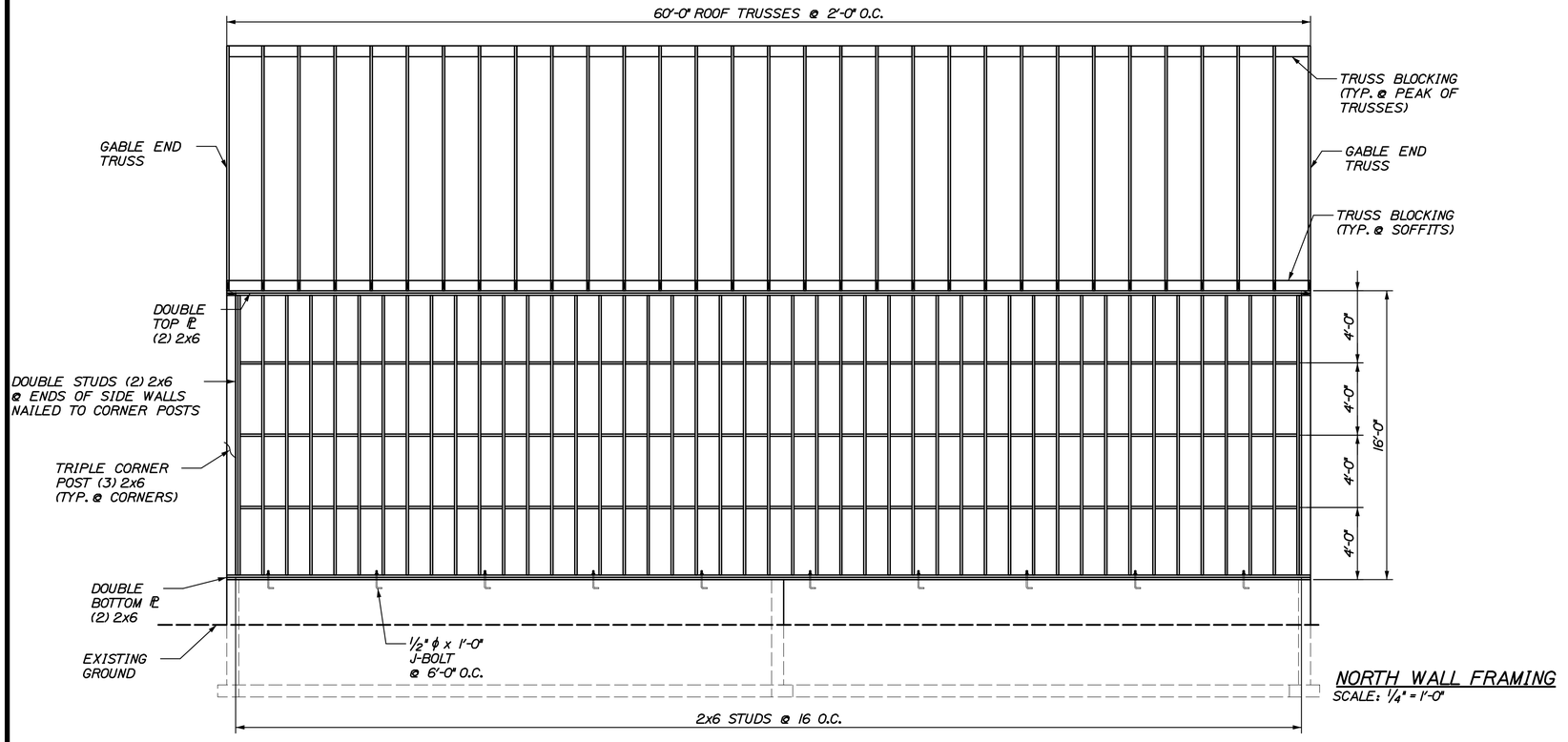
Filename: ...\014_South_Wall.dgn Workgroup: Structures Division Username: common Date:8/2/2010



NORTH WALL ELEVATION
SCALE: 1/4" = 1'-0"



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



NORTH WALL FRAMING
SCALE: 1/4" = 1'-0"

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FAIRFIELD MAINTANANCE
BRINE STORAGE/MAKER

NORTH WALL ELEVATION
& FRAMING

SHEET NUMBER
15

CALDERWOOD ENGINEERING, ETC.
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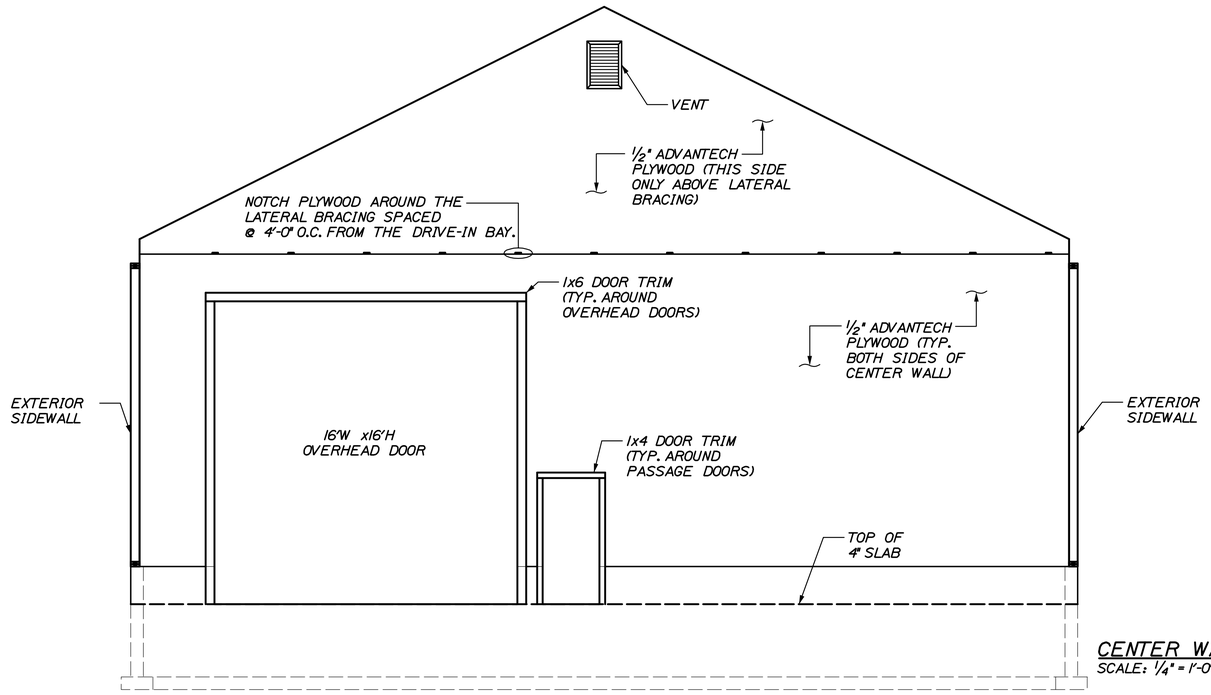
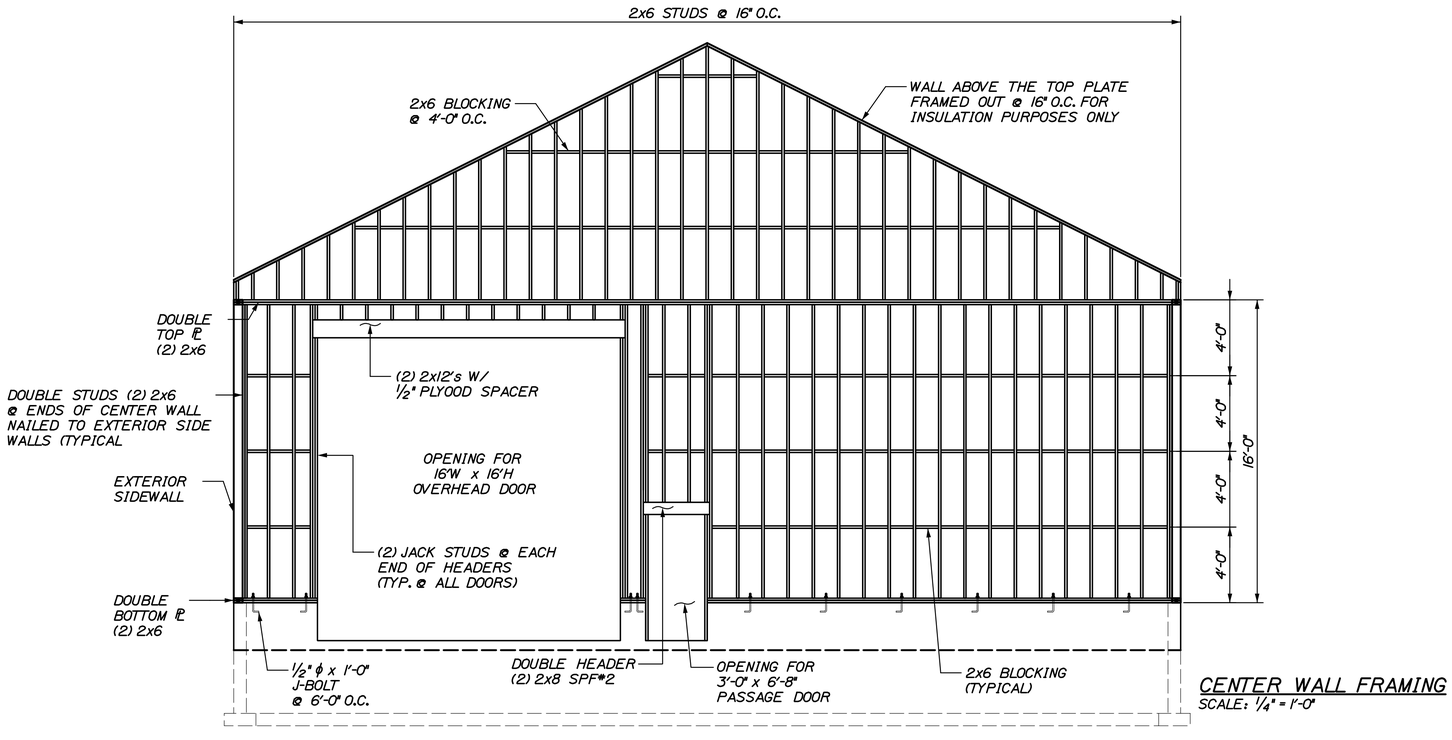
Filename: ...\015_North_Wall.dgn Workgroup: Structures Division Username: common Date:8/2/2010



CENTER WALL ELEVATION
SCALE: 1/4" = 1'-0"



CENTER WALL FRAMING
SCALE: 1/4" = 1'-0"

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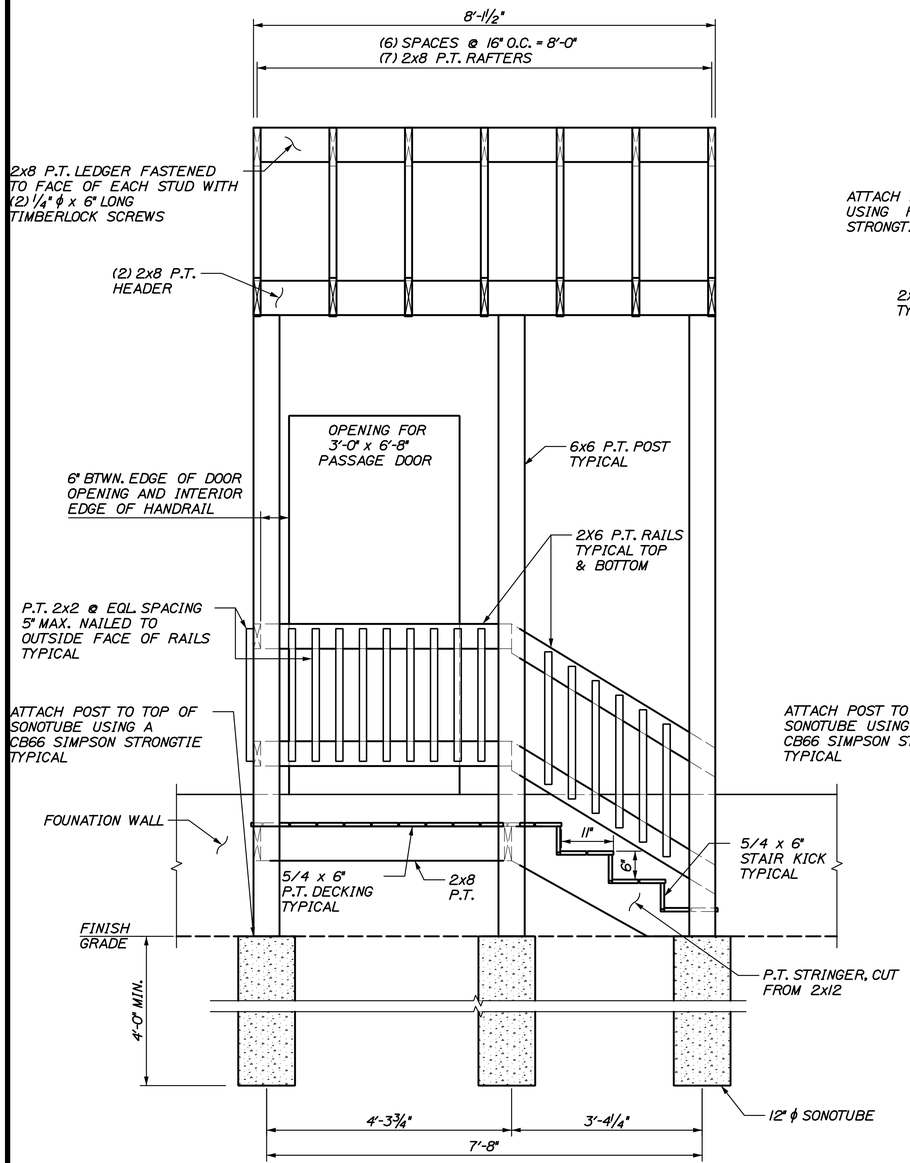
FAIRFIELD MAINTANANCE BRINE STORAGE/MAKER

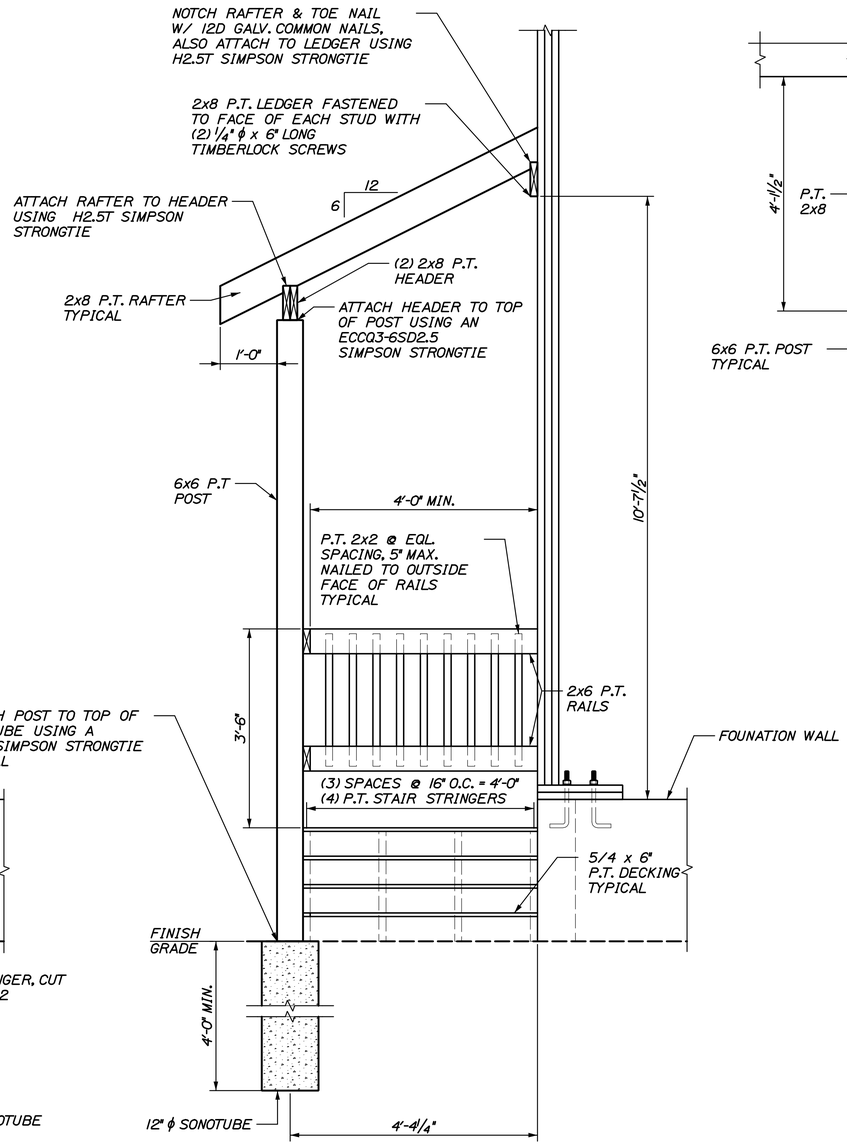
CENTER WALL ELEVATION & FRAMING

SHEET NUMBER
16

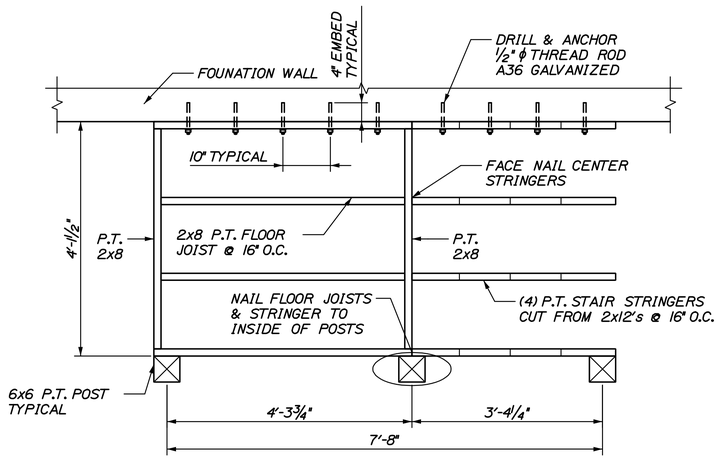
Filename: ...\016_Center_Wall.dgn Workgroup: Structures Division Username: common Date:8/2/2010



EXTERIOR STAIR FRAMING DETAIL
ELEVATION VIEW
SCALE: ¾" = 1'-0"
WALL STUDS NOT SHOWN FOR CLARITY



EXTERIOR STAIR FRAMING DETAIL
SIDE VIEW
SCALE: ¾" = 1'-0"



EXTERIOR STAIR FRAMING DETAIL
FLOOR PLAN
SCALE: ¾" = 1'-0"

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FAIRFIELD MAINTANANCE
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SHEET NUMBER
17

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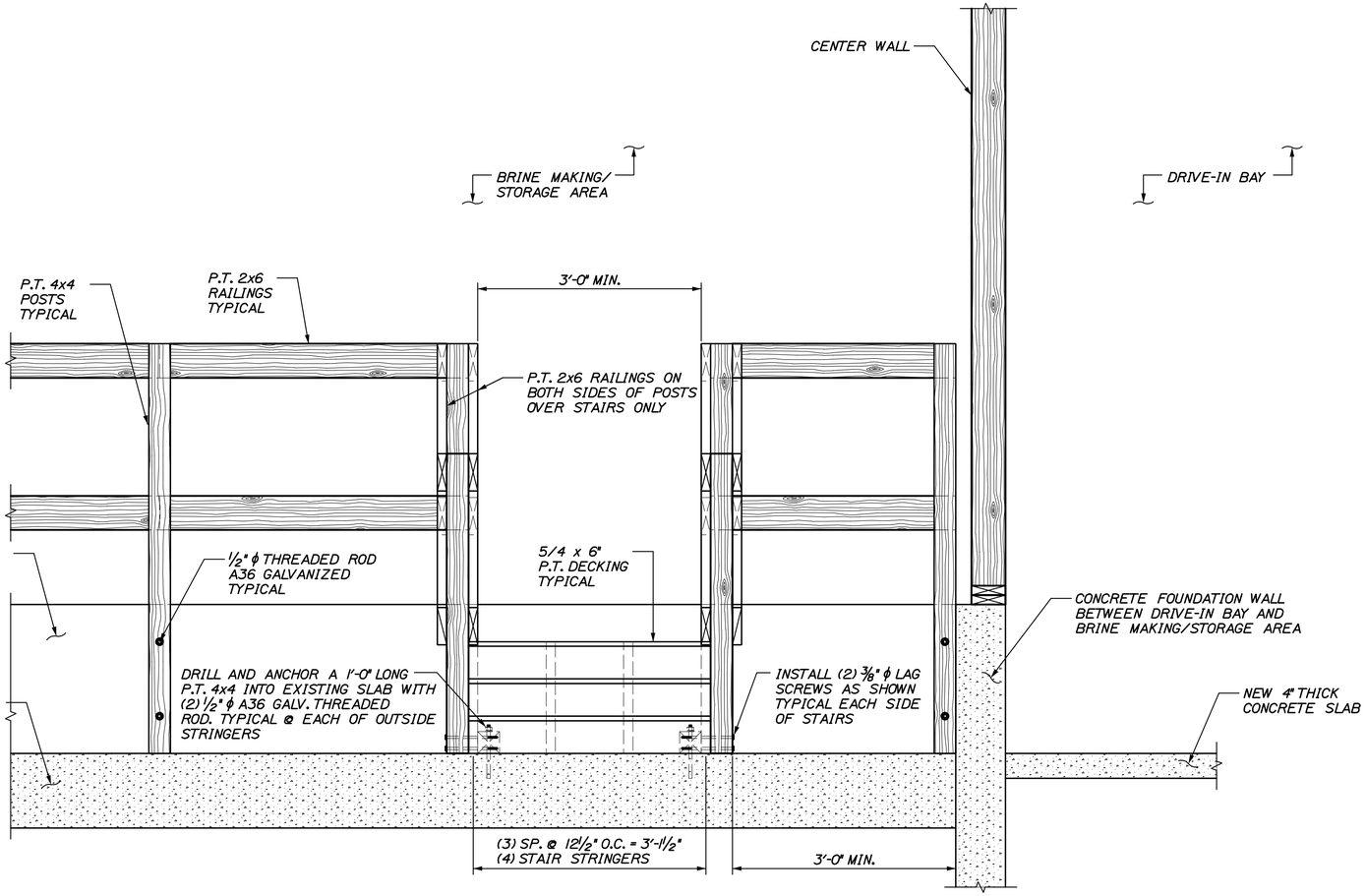
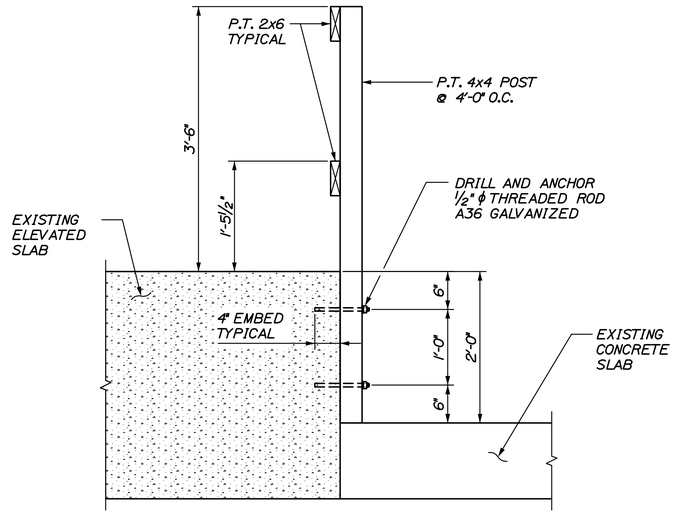
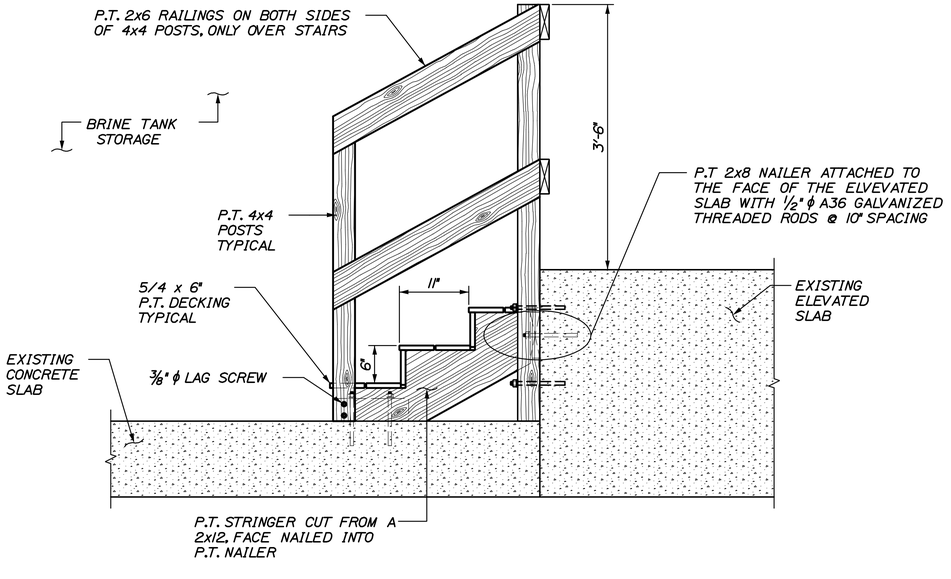
Filename: ...\017_Exterior_Stairs.dgn Workgroup: Structures Division Username: common Date:8/2/2010



A/18 INTERIOR STAIR ELEVATION
SCALE: 1" = 1'-0"



SAFETY RAIL DETAIL
SCALE: 1" = 1'-0"



B/18 INTERIOR STAIR SIDE VIEW
SCALE: 1" = 1'-0"

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STATE OF MAINE
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BRINE STORAGE/MAKER

SAFETY RAILS &
INTERIOR STAIR DETAILS

SHEET NUMBER
18

CALDERWOOD ENGINEERING
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Filename: ...\018_Safety_Rail_Stairs.dgn Workgroup: Structures Division Username: common Date:8/2/2010