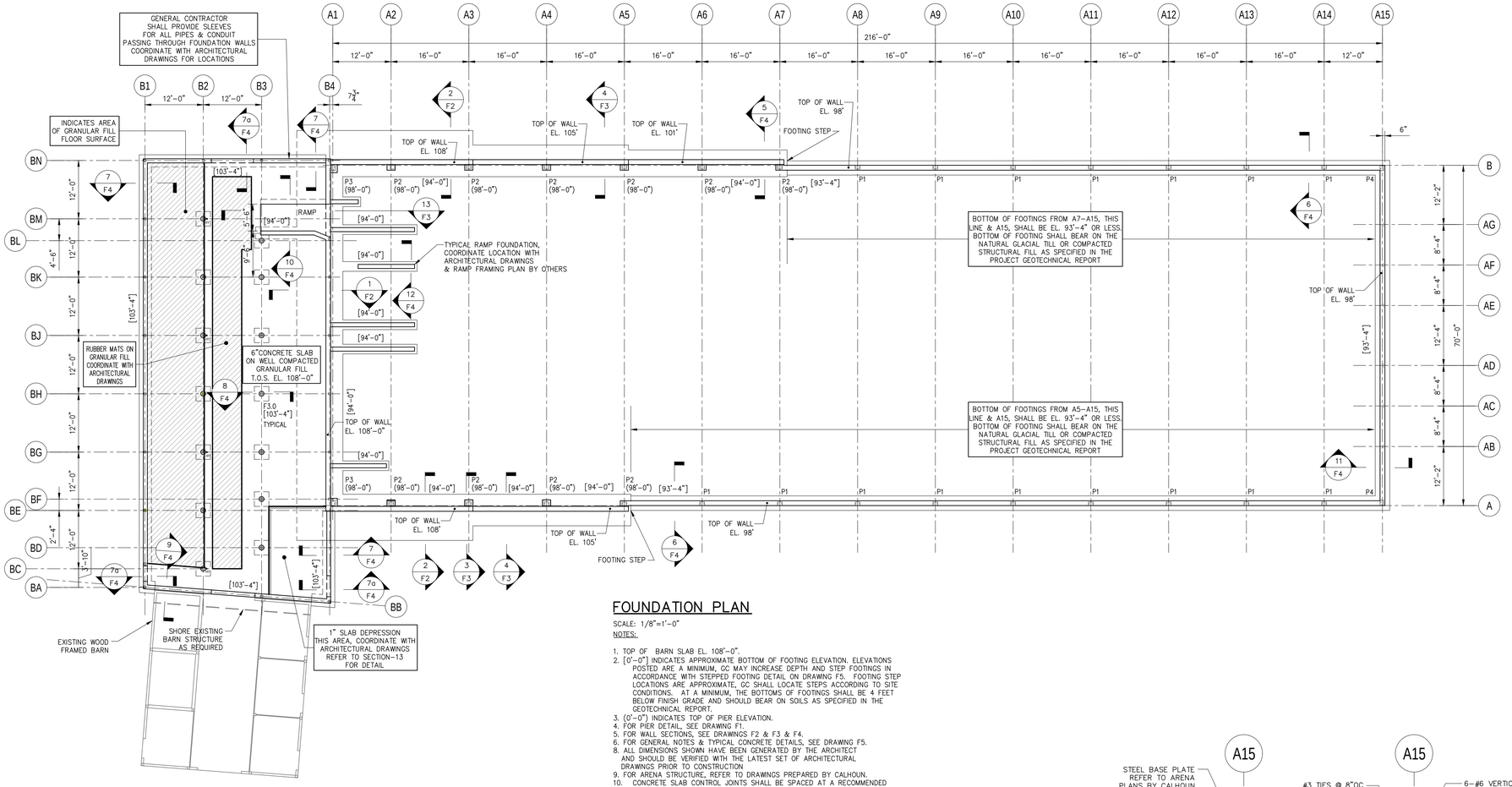


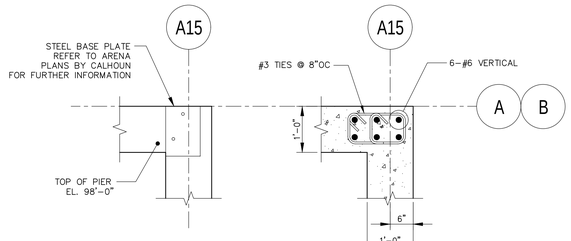
FOUNDATION PLAN

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

NOTES:

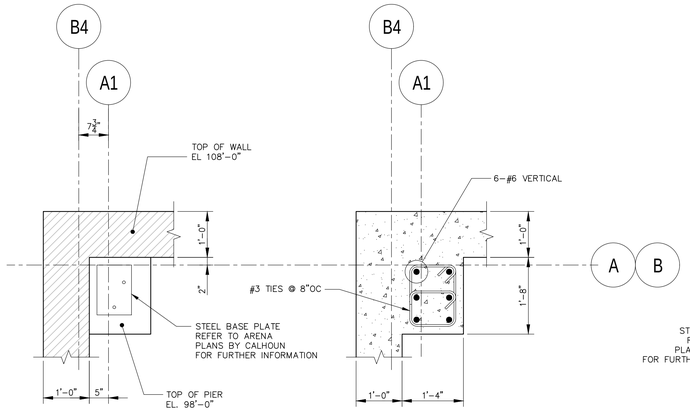
1. TOP OF BARN SLAB EL. 108'-0".
2. [0'-0"] INDICATES APPROXIMATE BOTTOM OF FOOTING ELEVATION. ELEVATIONS POSTED ARE A MINIMUM, GC MAY INCREASE DEPTH AND STEP FOOTINGS IN ACCORDANCE WITH STEPPED FOOTING DETAIL ON DRAWING F5. FOOTING STEP LOCATIONS ARE APPROXIMATE, GC SHALL LOCATE STEPS ACCORDING TO SITE CONDITIONS. AT A MINIMUM, THE BOTTOMS OF FOOTINGS SHALL BE 4 FEET BELOW FINISH GRADE AND SHOULD BEAR ON SOILS AS SPECIFIED IN THE GEOTECHNICAL REPORT.
3. (0'-0") INDICATES TOP OF PIER ELEVATION.
4. FOR PIER DETAIL, SEE DRAWING F1.
5. FOR WALL SECTIONS, SEE DRAWINGS F2 & F3 & F4.
6. FOR GENERAL NOTES & TYPICAL CONCRETE DETAILS, SEE DRAWING F5.
8. ALL DIMENSIONS SHOWN HAVE BEEN GENERATED BY THE ARCHITECT AND SHOULD BE VERIFIED WITH THE LATEST SET OF ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION
9. FOR ARENA STRUCTURE, REFER TO DRAWINGS PREPARED BY CALHOUN.
10. CONCRETE SLAB CONTROL JOINTS SHALL BE SPACED AT A RECOMMENDED SPACING OF 12 FEET ON CENTER IN EACH DIRECTION AND AS DETAILED ON DRAWING F5.
11. GC SHALL COORDINATE DOORWAY LOCATIONS WITH EMBEDDED ANCHOR BOLTS.
12. GC SHALL COORDINATE ALL LOCATIONS AND REQUIREMENTS OF UNDERGROUND UTILITIES PRIOR SO PLACEMENT OF THE CONCRETE SLAB ON GRADE.

℄ INDICATES LOCATIONS OF HYDRANTS COORDINATE WITH ARCHITECTURAL DRAWINGS.



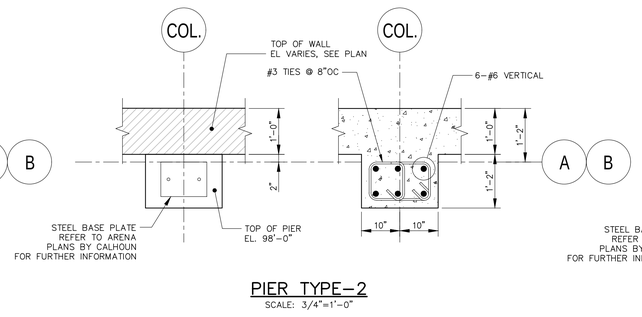
PIER TYPE-4

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



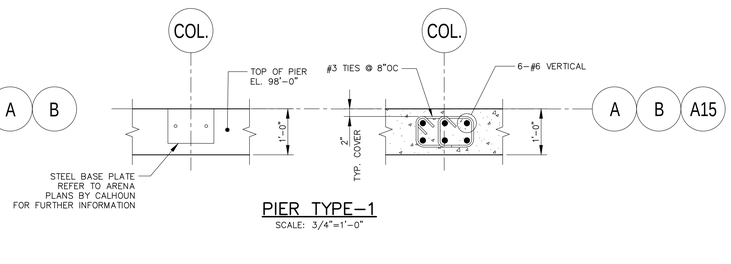
PIER TYPE-3

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



PIER TYPE-2

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



PIER TYPE-1

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

TYPICAL PIER DETAILS

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WILDSTAR FARM EQUESTRIAN FACILITY

SHERRORN
MASSACHUSETTS

Wildstar Farm

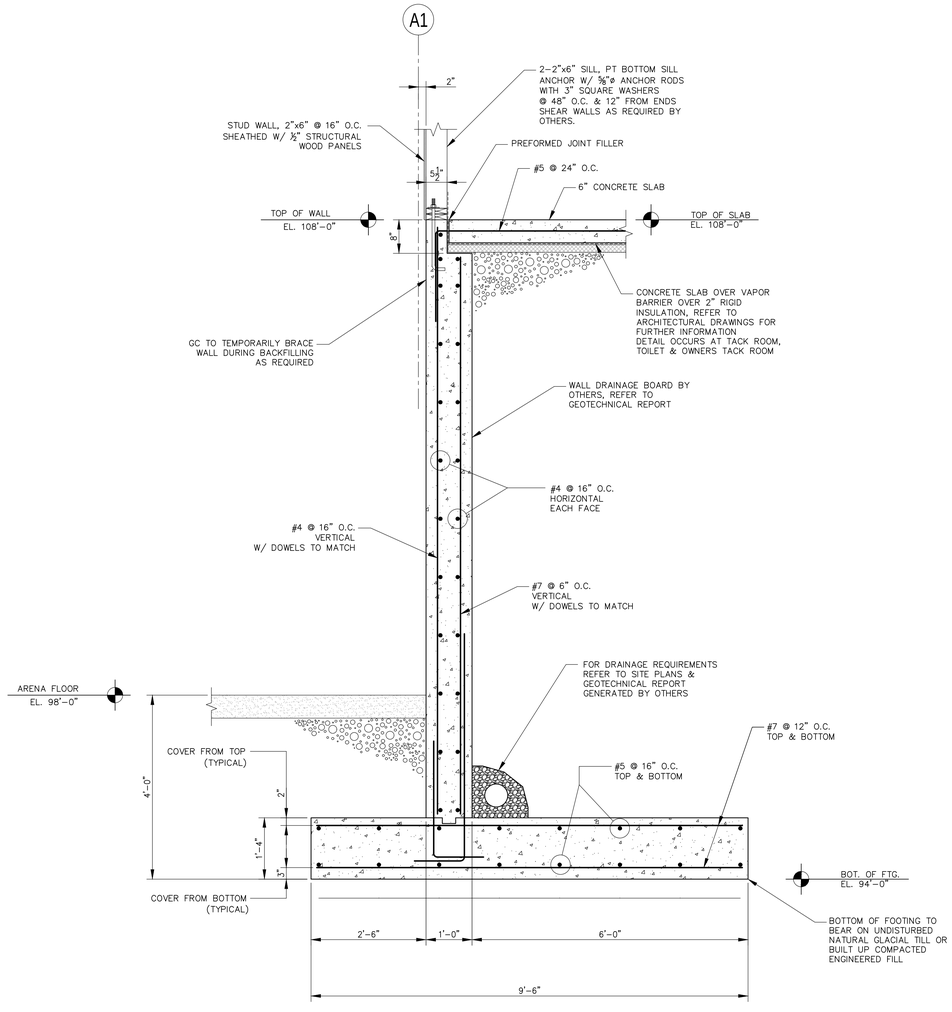
Polly Kornblith and Michael Newman
16 Nason Hill Lane
Sherborn, Massachusetts, 01770

KEYPLAN

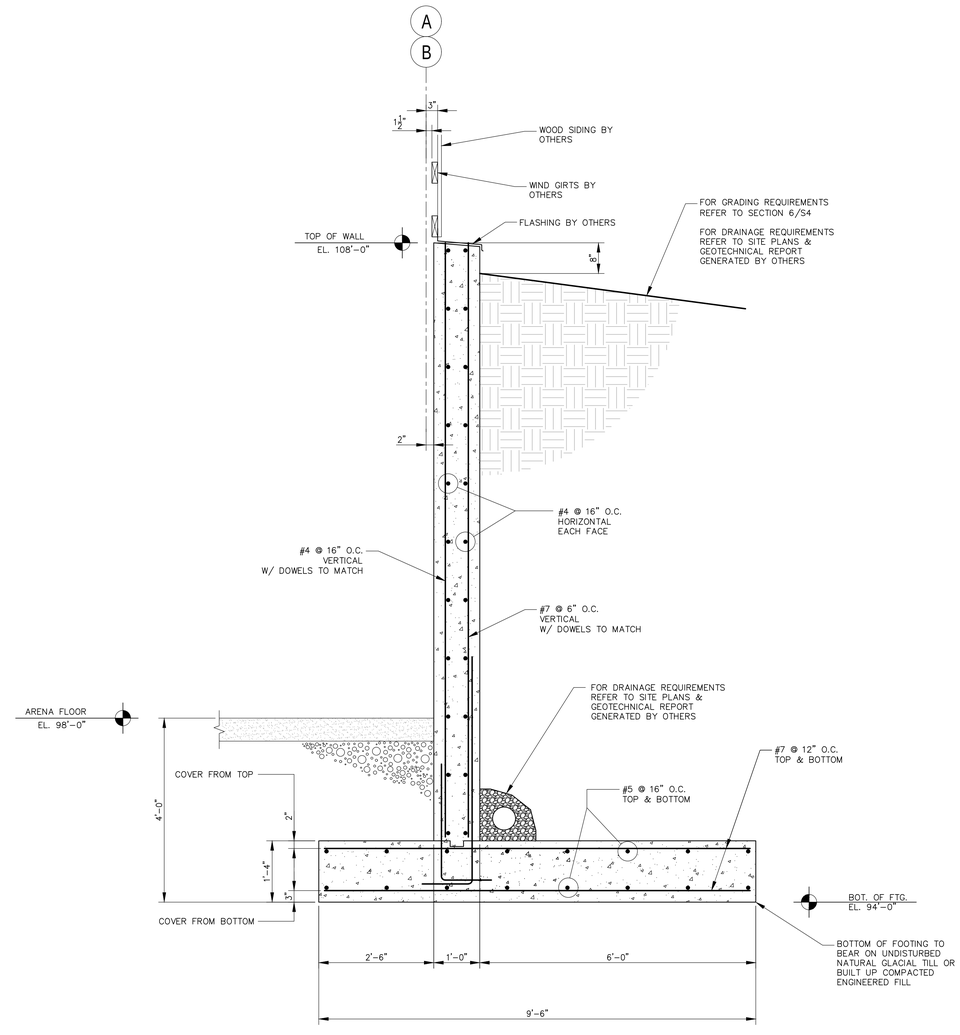
TRUE NORTH
PROJECT NORTH

Scale:
Job No.:
Drawn By: MRF
Date:

F1



1/F1 SECTION
SCALE: 3/4"=1'–0"



2/F1 SECTION
SCALE: 3/4"=1'–0"

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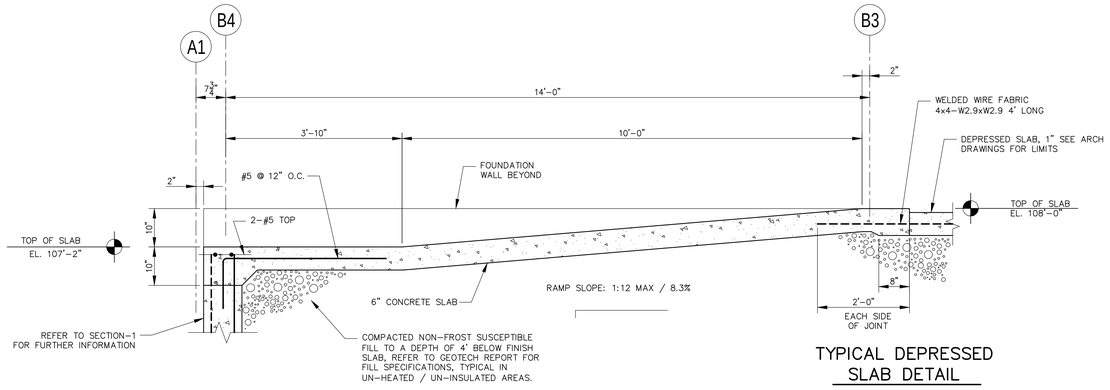
KEYPLAN

N TRUE NORTH

PROJECT NORTH

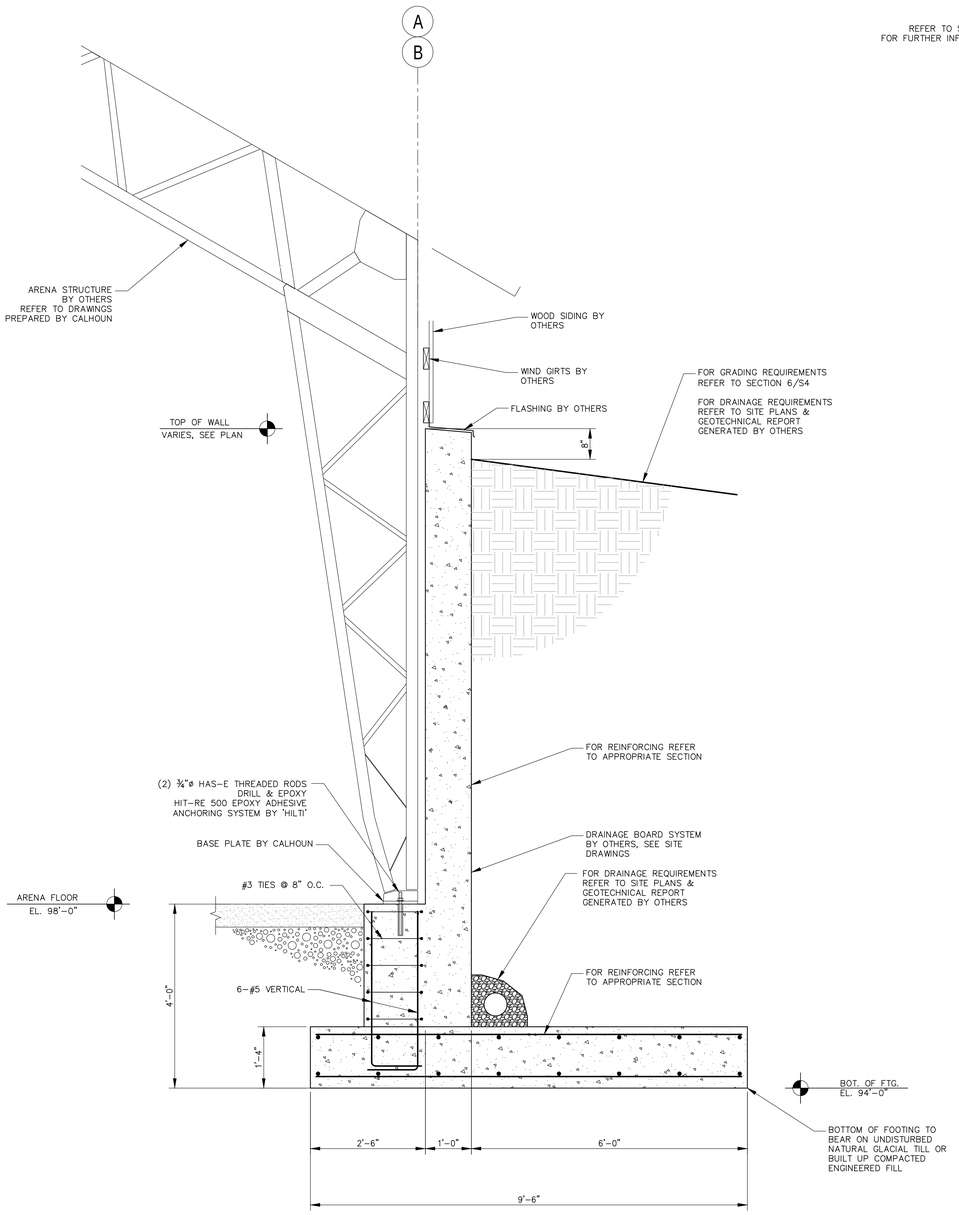
Scale:
Job No.:
Drawn By: MRF
Date:

F2



TYPICAL DEPRESSED SLAB DETAIL

13/F1 SECTION
SCALE: 3/4"=1'-0"



3/F1 SECTION
SCALE: 3/4"=1'-0"

4/F1 SECTION
SCALE: 3/4"=1'-0"

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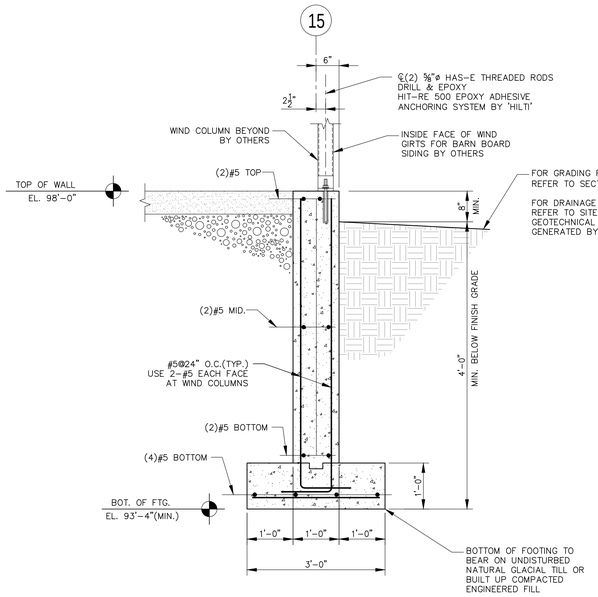
KEYPLAN

N TRUE NORTH

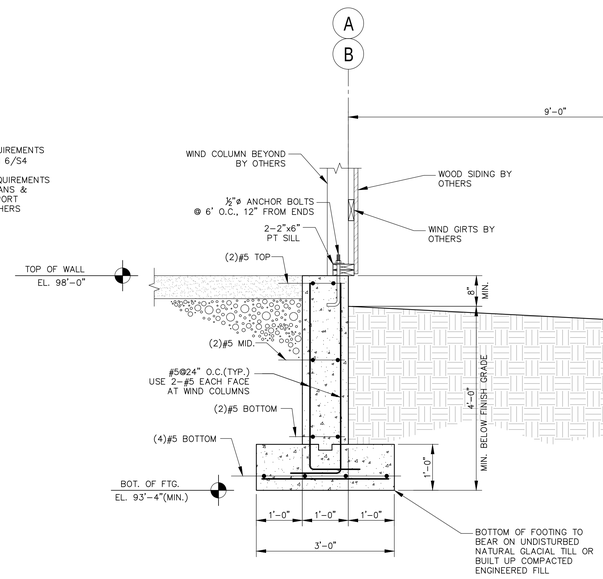
PROJECT NORTH

Scale:
Job No.:
Drawn By: MRF
Date:

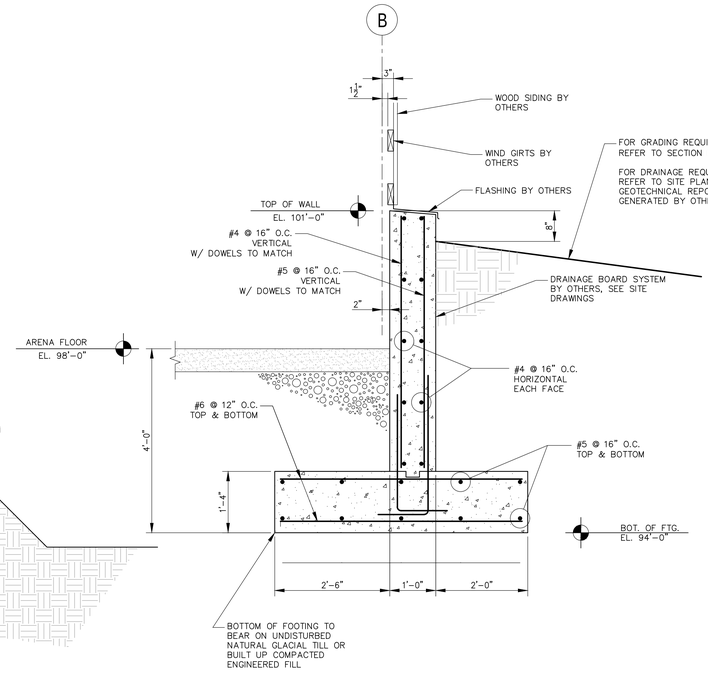
F3



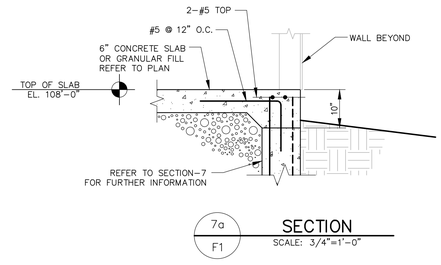
11/F1 SECTION
SCALE: 3/4"=1'-0"



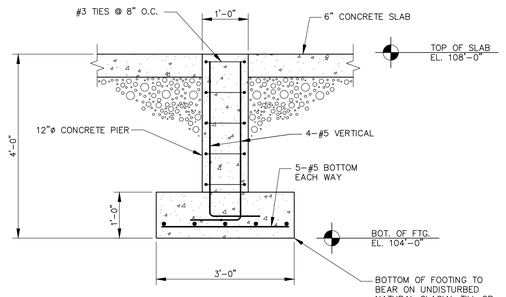
6/F1 SECTION
SCALE: 3/4"=1'-0"



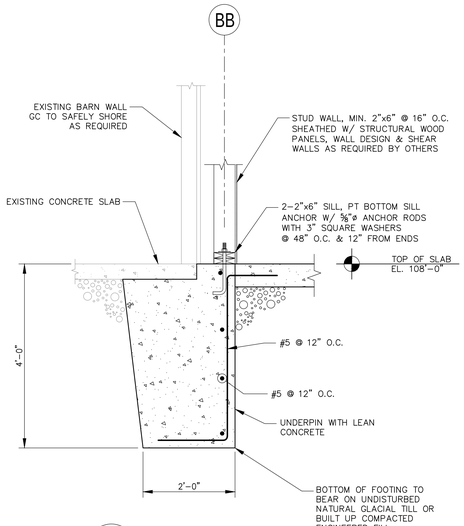
5/F1 SECTION
SCALE: 3/4"=1'-0"



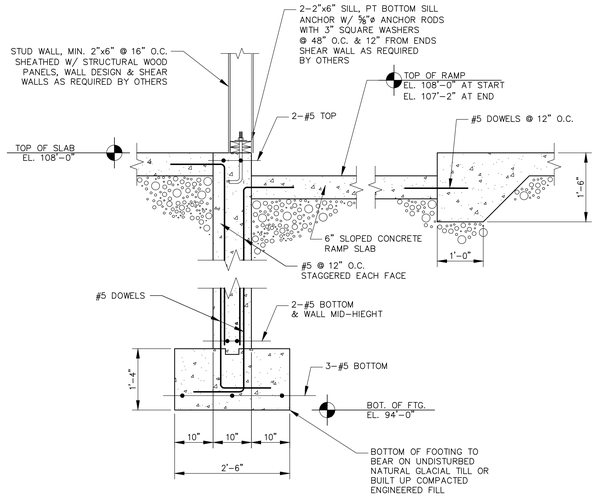
7a/F1 SECTION
SCALE: 3/4"=1'-0"



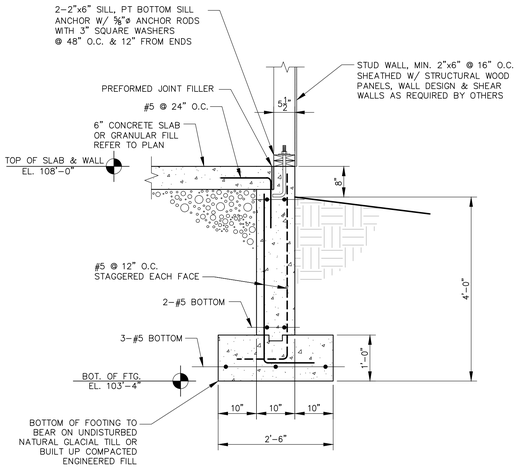
8/F1 SECTION
SCALE: 3/4"=1'-0"



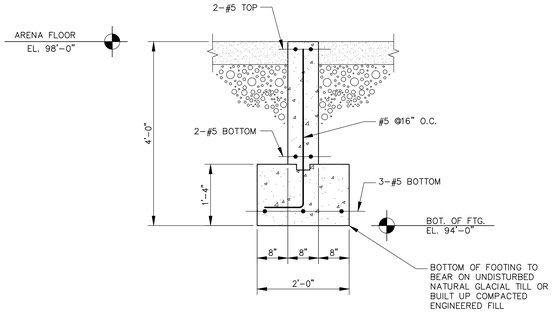
9/F1 SECTION
SCALE: 3/4"=1'-0"



10/F1 SECTION
SCALE: 3/4"=1'-0"



7/F1 SECTION
SCALE: 3/4"=1'-0"



12/F1 SECTION
SCALE: 3/4"=1'-0"

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PROJECT NORTH

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Job No.:
Drawn By: MRF
Date:

F4

GENERAL NOTES

GENERAL

ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE MASSACHUSETTS STATE BUILDING CODE AND THE REFERENCE STANDARDS INCLUDED THEREIN THAT ARE APPLICABLE TO THIS PROJECT.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY VARIATIONS OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE DRAWINGS MAY BE MADE ONLY WITH PRIOR APPROVAL OF THE PROJECT ARCHITECT.

SHOP DRAWINGS FOR REINFORCING STEEL, (INCLUDING ALL ACCESSORIES) SHALL BE SUBMITTED TO THE ENGINEER AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION CAN PROCEED.

NO MAIN FRAMING OR STRUCTURAL MEMBERS ARE TO BE MODIFIED, ALTERED OR CUT WITHOUT THE APPROVAL OF THE PROJECT ENGINEER.

FOR EXACT LOCATION OF FLOOR AND ROOF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SAFETY DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHEETING, SHORING AND GUYING STRUCTURES, BARRIERS AND SIGNAGE.

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SHOP DRAWINGS AND SPECIFICATIONS.

UNLESS OTHERWISE INDICATED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, CO-ORDINATION OF OTHER TRADES AND TECHNIQUES TO PRODUCE A SOUND AND QUALITY BUILDING. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES.

CODE

MASSACHUSETTS STATE BUILDING CODE, EIGHTH EDITION.

LOADS

SNOW: Pg=40 PSF
WIND: V=105 MPH

SECOND FLOOR LIVE: 40 PSF
DECK: 60 PSF
RETAINING WALLS: 40 PCF + SEISMIC LOAD, Fw
FOR THESE LOADS, THE RETAINING WALLS ARE REQUIRED TO BE PROPERLY DRAINED AS SPECIFIED IN THE GEOTECH REPORT

FOUNDATIONS

REFER TO THE GEOTECHNICAL REPORT AND RECOMMENDATIONS PREPARED FOR THIS PROJECT BY:
McPHAIL ASSOCIATES, LLC, DATED MARCH 24, 2017.
FOR: PROPOSED EQUESTRIAN FACILITY, 16 NASON HILL LANE, SHERBORN, MA

THE STRUCTURE SHALL BE SUPPORTED ON NATURAL UNDISTURBED SOIL OR ON CONTROLLED GRANULAR BACKFILL BACKFILL COMPACTED ON THE NATURAL MATERIAL TO 95 % MAXIMUM DRY DENSITY. THE MAXIMUM ALLOWABLE BEARING PRESSURE SHALL BE 2 TSF IN EITHER INSTANCE AND SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. BOTTOM OF FOOTING ELEVATION SHALL BE 4'-0" MINIMUM BELOW FINISHED EXTERIOR GRADE.

PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS TO THE GRADES INDICATED. WHERE EXTERIOR GRADE IS MORE THAN TWO FEET BELOW SLAB, WALLS SHALL BE BRACED UNTIL SLAB TO WHICH THEY ARE CONNECTED IS AT LEAST TWO WEEKS OLD.

FOR LOCATIONS OF PIPES AND CONDUITS, SEE SITE, PLUMBING AND ELECTRICAL DRAWINGS. PIPES WHICH CARRY WATER SHALL NOT BE ALLOWED TO PASS UNDER FOOTINGS. STEP FOOTINGS APPROPRIATELY TO ALLOW PIPE TO PASS OVER FOOTING.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", WITH A MAXIMUM SLUMP OF 4 1/2 INCHES.

MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

STRENGTH (PSI)	MAXIMUM AGGREGATE SIZE (IN.)	ENTRAINED AIR (	
3500	1 1/2	0	SLAB ON GRADE
3000	3/4	4 – 6	ALL OTHER CONCRETE

NO ADMIXTURES OTHER THAN LOW RANGE WATER REDUCER WILL BE ALLOWED.

CONCRETE SHALL NOT BE CAST IN WATER OR ON FROZEN GROUND.

WELDED WIRE FABRIC SHALL BE LAID IN FLAT SHEETS AND CONFORM TO ASTM 185. PLACE WIRE FABRIC 1 INCH FROM THE TOP OF CONCRETE UNLESS OTHERWISE NOTED.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCING".

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:

FOOTING	3 INCHES FROM BOTTOM
WALLS AND PIERS	2 INCHES FROM SIDES
SLABS	1 INCH FROM THE TOP

TIMBER FRAMING

TIMBER DESIGN SHALL CONFORM TO THE PROVISIONS OF THE 2005 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

TIMBER CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE 2006 WOOD CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS AND THE GUIDE TO WOOD CONSTRUCTION IN HIGH WIND AREAS FOR ONE AND TWO-FAMILY DWELLINGS PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

NEW TIMBER FOR STRUCTURAL USE SHALL HAVE A MOISTURE CONTENT AS SPECIFIED IN THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NFPA, 1991 EDITION).

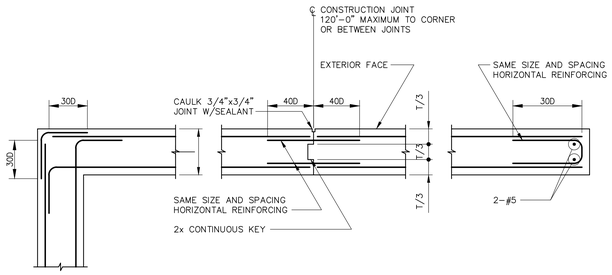
TIMBER CONSTRUCTION SHALL CONFORM TO CHAPTER 23 OF THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE.

MATERIAL PROPERTIES SHALL CONFORM TO THE FOLLOWING:

(A) FOR MEMBERS WITH NOMINAL 2" THICKNESS. S-P-F #1/#2 (5% MAX MC)
ALLOWABLE BENDING STRESS
Fb=875 PSI (SINGLE MEMBER USE)
Fb=1000 PSI (MULTIPLE MEMBER USE)
ALLOWABLE SHEAR STRESSS Fv=70 PSI
COMPRESSION PERPENDICULAT TO GRAIN = 425 PSI
MODULUS OF ELASTICITY E= 1,400,000 PSI

(B) FOR PRESSURE TREATED MEMBERS WITH NOMINAL 2" THICKNESS, SOUTHERN YELLOW PINE #1 OR BETTER (19% MAX MC).
ALLOWABLE BENDING STRESS Fb= 1300 PSI
ALLOWABLE SHEAR STRESS Fv= 90 PSI
COMPRESSION PARALLEL TO GRAIN = 1550 PSI
COMPRESSION PERPENDICULAR TO GRAIN= 565 PSI
MUDULUS OF ELASTICITY E= 1,500,000 PSI

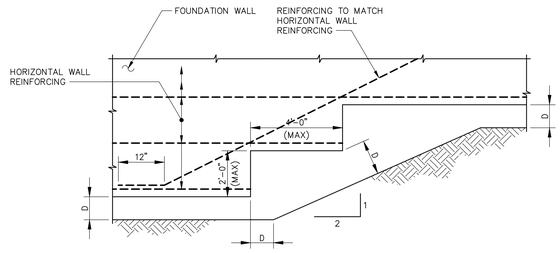
"PT" INDICATES PRESSURE-TREATED LUMBER (TO BE USED WHEN IN CONTACT WITH CONCRETE, MASONRY, OR WEATHERED).



AT CORNERS AT CONSTRUCTION JOINTS AT WALL END AND OPENINGS

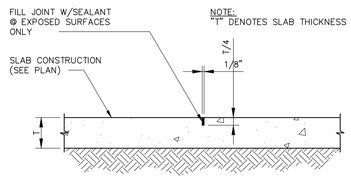
TYPICAL FOUNDATION WALL DETAILS

NO SCALE



ELEVATION OF CONTINUOUS STEPPED WALL FOOTING

NO SCALE



TYPICAL CONTROL JOINT DETAIL

NO SCALE

NOTE
PLASTIC ZIP STRIPS MAY BE USED. JOINT SPACING IN EITHER DIRECTION SHALL NOT EXCEED 12 FEET. ISOLATION JOINTS SHALL BE PLACED AT COLUMNS AND CONTROL JOINTS SHALL LINE UP WITH THEM.

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F5