



Board of County Commissioners Agenda Request



Requested Meeting Date: May 12, 2026

Title of Item: Request for Bids - Boat and Water Building

<input checked="" type="checkbox"/> REGULAR AGENDA	Action Requested:	<input type="checkbox"/> Direction Requested
<input type="checkbox"/> CONSENT AGENDA	<input checked="" type="checkbox"/> Approve/Deny Motion	<input type="checkbox"/> Discussion Item
<input type="checkbox"/> INFORMATION ONLY	<input type="checkbox"/> Adopt Resolution (attach draft)	<input type="checkbox"/> Hold Public Hearing* <i>*provide copy of hearing notice that was published</i>

Submitted by: Jim Bright	Department: Maintenance
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Presenter (Name and Title): Jim Bright Facilities Coordinator	Estimated Time Needed: 10 Min
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Summary of Issue:

Requesting to go out for bids to construct a new boat and water storage building.

I'll also be requesting quotes for: plumbing, heating, and electrical for the new building, and demo of the old building. I'll present these quotes to the Board for consideration when received.

Highway department will be doing the site work.

The project will be advertised in the Aitkin, McGregor and Grand Rapids paper.

Alternatives, Options, Effects on Others/Comments:

Recommended Action/Motion:

Approve soliciting bids to construct a new boat and water building.

Financial Impact:

Is there a cost associated with this request? Yes No

What is the total cost, with tax and shipping? \$

Is this budgeted? Yes No *Please Explain:*

We have FEMA money for the construction of the building.

STRUCTURAL NOTES AND SPECIFICATIONS

DUFFY ENGINEERING AND ASSOCIATES, INC.

STRUCTURAL ENGINEERING

350 Highway 10 South, Saint Cloud, MN 56304

(320) 259-6575 | info@duffyeng.com

Project: CONTEGRITY GROUP - AITKIN COUNTY

Location: 315 1ST ST NW, AITKIN MN

Project No.: 25115 | Date: 07-11-25

Drawn by: GJB | Checked by: JJW

BUILDING CODES

A. 2020 MINNESOTA STATE BUILDING CODE AND 2018 IBC.

B. MEET REQUIREMENTS OF ALL PREVAILING CODES.

DESIGN LIVE LOADS

- GROUND SNOW LOAD: 60 PSF
- ROOF SNOW LOAD: 42 PSF
- WIND: 90 MPH (ASCE 116 MPH (ULTL) EXPOSURE B)
- SEISMIC: DESIGN CATEGORY "A"
- OTHERS: PER BUILDING CODE
- * PLUG SNOW BUILDUP IN ACCORDANCE WITH BUILDING CODE.

FOOTINGS AND FOUNDATIONS

A. MINIMUM FROST COVER FROM GRADE TO BOTTOM OF FOOTING IS 42 INCHES UNLESS NOTED OTHERWISE (SEE FOUNDATION PLAN).

B. SOIL DESIGN ALLOWABLE BEARING CAPACITY IS 2500 PSF (ASSUMED). SOIL BEARING CAPACITY SHALL BE VERIFIED BY SOILS ENGINEER FAMILIAR WITH SITE AND SOIL CONDITIONS. CONTRACTOR SHALL FOLLOW ALL SOILS ENGINEER RECOMMENDATIONS. NOTIFY ENGINEER OF RECORD IMMEDIATELY OF ANY POOR SOIL CONDITIONS.

C. FOOTING STEPS SHALL NOT EXCEED 45° UNLESS NOTED OTHERWISE AND SHALL HAVE A MINIMUM SPACING BETWEEN STEPS OF AT LEAST TWICE THE STEP HEIGHT.

D. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS ENGINEER IF COMPACTION IS REQUIRED.

E. FILL SHALL BE COMPACTED IN THE FOLLOWING MINIMUM STANDARD PROCTOR VALUES:

SLAB ON GRADE: 95%

FOOTINGS: 95%

TOTAL FOUNDATION BACKFILL: 95%

BASEMENT BACKFILL: 95%

NOT FOR BID

F. UNLESS OTHERWISE APPROVED BY ENGINEER OR SOILS ENGINEER, IN AREAS WHERE OVEREXCAVATION IS REQUIRED, THE EXCAVATION SHALL BE OVERSIZED A DISTANCE TO THE FOOT BOTTOM FOR FOOTING AREAS FOR EACH FOOT OF LOWER DEPTH.

G. ALL COLUMN FOOTINGS SHALL BE CENTERED ON THE COLUMNS, AND WALL FOOTINGS SHALL BE CENTERED ON THE WALLS UNLESS NOTED OTHERWISE.

CAST-IN-PLACE-CONCRETE

- A. DESIGN CODE:** "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
- B. CONCRETE (F'C IS 28 DAY COMPRESSIVE STRENGTH OF CONCRETE):**
FOOTINGS: F'C=4000 PSI, 6" SLUMP, 3/4" MAX. AGR.
WALLS, GRADE BEAMS: F'C=4000 PSI, 4" SLUMP, 3/4" MAX. AGR.
SLAB ON GRADE: F'C=4000 PSI, 4" SLUMP, 3/4" MAX. AGR.
CORE AND BOND BEAM FILL: F'C=3500 PSI, 6" SLUMP, 3/8" MAX. AGR.
ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED (5 TO 7% (+/- 1%) BY VOLUME.
- C. REINFORCING STEEL: (NEW, DEFORMED AND CLEAN)**
ASTM A615 FOR REINFORCING BARS.
ASTM A615 GRADE 60, GRADE 40 FOR STIRRUPS AND TIES.
- D. ALL CONCRETE REINFORCING FOR REINFORCEMENT SCHEDULE: PER MINIMUM COVER.**
- E. REINFORCING SPLICES SHALL BE THE GREATER OF 48 BAR DIAMETERS OR 24" U.N.O.**
- F. FIBERMESH REINFORCING: ASTM C 1116, TYPE III FOR POLYPROPYLENE FIBERS. FIBERMESH REINFORCING IN SLABS ON GRADE SHALL BE FIBERMESH 300 OR APPROVED EQUIVALENT.**
- G. EMBEDDED ITEMS: ANCHOR BOLTS, PIPE SLEEVES, HOLES, ETC. SHALL BE COORDINATED WITH ALL TRADES.**
- H. FURNISH AND INSTALL ALL CHAIRS, TIES, AND OTHER ACCESSORIES IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STD. PRACTICE".**
- I. CONSOLIDATE ALL CONCRETE BY VIBRATING OR PUDDLING.**
- J. ALL CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.**
- K. FINISHED CONCRETE SHALL BE FIELD CURED FOR NOT LESS THAN 18 HOURS AND WET MORE THAN 3 DAYS.**
- L. ALL CONCRETE AND MASONRY CONSTRUCTION DURING HOT OR COLD WEATHER SHALL COMPLY WITH ACI CODE.**
- M. CONTROL JOINTS SHALL BE ZIPPED OR SAWCUT (1/4 SLAB THICKNESS). MAX SPACING SHALL NOT EXCEED 24 MULTIPLIED BY THE SLAB THICKNESS, AND SHOULD NOT EXCEED 18' UNLESS APPROVED BY THE ENGINEER.**
- N. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED PER THE CONSTRUCTION JOINT DETAIL. CONSTRUCTION JOINTS SHALL BE LOCATED IN COORDINATION WITH THE SUPERINTENDENT WITH SPACING NOT EXCEEDING 45 FEET, UNLESS OTHERWISE APPROVED.**

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT ALL SHORING, SCAFFOLD, BRACING, TEMPORARY CONSTRUCTION, ETC. NECESSARY TO PERFORM REQUIRED CONSTRUCTION.
2. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS FROM ALL DISCIPLINES AND CONFIRM DIMENSIONS, SPECIFICATIONS, ETC., AND ANY CONTRADICTIONS FOUND BETWEEN ANY OF THE CONSTRUCTION DOCUMENTS SHALL BE REFERENCED TO THE ARCHITECT OR ENGINEER IMMEDIATELY.
3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL LAWS REGARDING SAFETY AND WARNING REQUIREMENTS ON THE JOB SITE.
4. ALL SHOP DRAWINGS REQUIRED BY THESE SPECIFICATIONS SHALL BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT AND ENGINEER.
5. SPECIAL INSPECTIONS AND TESTING WHEN REQUIRED BY THE SPECIAL STRUCTURAL TESTING AND INSPECTION SCHEDULE ON THIS SHEET SHALL BE COORDINATED BY THE CONTRACTOR.
6. IF ANY WORK IS COVERED UP PRIOR TO CONSULTATION OR APPROVAL BY THE APPROPRIATE INSPECTOR/ENGINEER, IT SHALL BE UNCOVERED FOR INSPECTION AT THE EXPENSE OF THE CONTRACTOR.

WOOD TRUSSES

- A. WOOD TRUSSES SHALL BE PREFABRICATED BY AN APPROVED WOOD TRUSS FABRICATOR IN ACCORDANCE WITH ANSI/TPI "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION".
- B. TRUSS SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT.
- C. TRUSSES SHALL BE DESIGNED FOR THE LIVE LOAD SHOWN IN THE GENERAL NOTES PLUS THE ACTUAL DEAD LOADS INCLUDING FINISHED CEILING. MINIMUM TRUSS SPACING SHALL BE 24" O.C. MAXIMUM DEFLECTION VALUES:
ROOF TRUSSES: LIVE LOAD $L/360$, TOTAL LOAD $L/240$
FLOOR TRUSSES: LIVE LOAD $L/480$, TOTAL LOAD $L/360$
- D. SUBMIT SHOP DRAWINGS WHICH SHOW FRAMING PLAN WITH TRUSS LAYOUT. ALL ROOF TRUSSES SHALL BE SECURED TO WOOD BEARING WALL SYSTEMS TO RESIST 300 LB OF UPLIFT/FORCE UNLESS NOTED OTHERWISE.
- E. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

CARPENTRY

- A.** INSTALLATION OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE IBC, LOCAL CODES AND MANUFACTURERS, OR AS SPECIFIED ON THE DRAWINGS, WHICHEVER IS MORE STRINGENT.
- B.** VISUALLY GRADED SAWN LUMBER: DOUGLAS FIR-LARCH (DFL), HEM-FIR (HF), SPRUCE-PINE-FIR (SPF), SOUTHERN PINE (SYP) WITH MINIMUM OF "NO. 2" FOR FRAMING.
STUDS: DFL, HF, SPF OR SYP, STUD GRADE.
JOISTS, RAFTERS, PLATES: DFL, HF, SPF OR SYP, NO. 2 AND BETTER
- C.** MACHINE STRESS RATED SAWN LUMBER (MSR), WITH GRADING PERFORMED BY ONE OF THE FOLLOWING AGENCIES: WCLIB, NLGA, WWPA, NELMA OR SPIB.
- D.** LAMINATED VENEER LUMBER (LVL): MICROLLAM, STRUCLAM OR APPROVED EQUAL WITH MINIMUM VALUES: FB = 2900 PSI, E = 2.0 MPS.
- E.** PARALLEL STRAND LUMBER (PSL): PARALLAM OR APPROVED EQUAL WITH MINIMUM VALUES: FB = 2900 PSI, E = 2.0 MPS.
- F.** GLULAM: APPROVED PRODUCT MEETING THE REQUIREMENTS OF ANSI/AITC STANDARD A190.1 WITH MINIMUM VALUES: FB = 2400 PSI, E = 1.8 MPS.
- G.** WOOD I-JOIST: WSI, TJI, GPI, STRUCJOIST, AMERICAN I-JOIST OR APPROVED EQUAL.
- H.** PLYWOOD: PS 1 "U.S. PRODUCT STANDARD FOR CONSTR AND INDUST PLYWOOD", OR PS2 "PERFORMANCE STANDARD". ROOF AND WALL SHEATHING SHALL BE EXTERIOR GRADE.
- I.** FRAMING ANCHORS: 18 GAGE MINIMUM, KANT-SAG, SIMPSON OR APPROVED EQUAL, U.N.O.N.
- J.** WOOD PRESERVATIVE: PROVIDE PRESSURE TREATED LUMBER THAT MEETS REQUIREMENTS OF IBC. ALL FASTENER AND HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE APPROVED FOR USE.
- K.** ANCHOR BOLTS: ASTM A307 OR ASTM A36 ANCHOR BOLTS SHALL BE INSTALLED PER IBC 2308.6 WITH 1/2" BOLT AT 48" OC (MAX). THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PLATE.
- L.** LAG BOLTS: FF-B-561.
- M.** NAILS: COMMON TO MEET FF-N-105 OR QQ-N-105, GALVANIZED AT EXTERIOR. ALL NAILING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE NAILING SCHEDULE.
- N.** ALL HANGER HARDWARE TO BE SIMPSON STRONG TIE ANCHOR SYSTEMS OR APPROVED EQUAL.

NOT FOR BID

FRAMING SCHEDULE

USE	MEMBER LOCATION/TYPE	SPECIES	GRADE	REMARKS
STUDS, TRIMMERS	1ST & 2ND FLR BRG WALLS	HF, DFL, SPF, SYP	STUD	2x4 AT 16" O.C.
STUDS, TRIMMERS	NONBEARING WALLS OR 3RD & 4TH FLR BRG WALLS	HF, DFL, SPF, SYP	STUD	2x4 OR 2x6 AT 16" O.C.
HEADERS, LINTELS	ALL FLOORS	HF, DFL, SPF, SYP	NO. 2 AND BETTER	AS NOTED ON PLAN
PLATES	1ST FLOOR	HF, DFL, SPF, SYP TREATED	NO. 2 AND BETTER	TO MATCH STUD WIDTH
PLATES	2ND, 3RD & 4TH FLOORS	HF, DFL, SPF, SYP	NO. 2 AND BETTER	TO MATCH STUD WIDTH
MISC. BLOCKING, FIRE-STOPPING, FURRING	ALL FLOORS	HF, DFL, SPF, SYP	STANDARD OR BETTER	AS REQUIRED BY DETAIL

1. 1. ALL NAILING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE NAILING SCHEDULE INDICATED ON IBC TABLE 2304.9.1.
2. 2. LINTELS ARE NOTED FOR MASONRY OPENINGS. HEADERS ARE NOTED FOR FRAMED OPENINGS. BEAMS ARE NOTED FOR STEEL.

NOT FOR BID

CUTTING AND DRILLING SCHEDULE - DIMENSIONAL LUMBER

DESCRIPTION	MEMBER LOCATION/TYPE	CODE REQUIREMENT	REMARKS
CUTTING AND NOTCHING	EXTERIOR WALL OR BEARING PARTITION	NOT TO EXCEED 25% OF MEMBER WIDTH	7/8" MAX. FOR 2x4 1 3/8" MAX FOR 2x6
	NONBEARING PARTITION	NOT TO EXCEED 40% OF MEMBER WIDTH	1 3/8" MAX FOR 2x4 2 1/8" MAX FOR 2x6
	NONBEARING PARTITION	NOT TO EXCEED 40% OF MEMBER WIDTH	1 3/8" MAX FOR 2x4 2 1/8" MAX FOR 2x6
	NONBEARING PARTITION	NOT TO EXCEED 60% OF MEMBER WIDTH IF STUDS ARE DOUBLED	2" MAX FOR (2) 2x4 2 1/4" MAX FOR (2) 2x6
BORED HOLES	BEARING PARTITION	NOT TO EXCEED 60% OF MEMBER WIDTH	2" MAX FOR 2x4 3 1/4" MAX FOR 2x6
	ROOF OR FLOOR JOISTS	NOT ALLOWED WITHIN 3" OF TOP OR BOTTOM	1 1/2" MAX FOR 2x8 2" MAX FOR 2x10 2 3/4" MAX FOR 2x12

3. 1. THE EDGE OF A BORED HOLE IN A STUD SHALL NOT BE NEARER THAN 5/8" FROM ANY EDGE.
4. 2. WHERE PLATES ARE CUT, A METAL TIE NOT LESS THAN 16 GA. AND 1 1/2" WIDE SHALL BE FASTENED TO EACH PLATE.
5. 3. NOTCHING OF FABRICATED FLOOR OR ROOF TRUSSES IS NOT ALLOWED.
6. 4. DRILLING THROUGH LAMINATED VENEER LUMBER IS NOT ALLOWED WITHOUT APPROVAL FROM THE ENGINEER.

NOT FOR BID

STRUCTURAL TESTING AND SPECIAL INSPECTION SCHEDULE

SPECIFICATION SECTION	DESCRIPTION	TYPE OF STRUCTURAL TESTING	FREQUENCY	ASSIGNED FIRM
IBC 1705.6	SOIL COMPACTION TESTING	TESTING AGENCY	PER SOIL REPORT	AS APPROVED BY S.E.R.
IBC 1705.3	CONC. SLUMP, AIR, TEMP., CYLINDERS	TESTING AGENCY	EVERY 50 CY PLACED ONCE DAILY MINIMUM	AS APPROVED BY S.E.R.
IBC 1705.3	CONC. WALLS AND RETAINING WALLS REINFORCING AND CONC. PLACEMENT	SPECIAL INSPECTION ENGR. OR TECH. SPERV'D BY S.E.R.	PERIODIC DURING REINF. & CONC. PLACMT	AS APPROVED BY S.E.R.
IBC 1705.4	MASONRY WALL REINFORCING, GROUTING AND WORKMANSHIP	ENGR. OR TECH. SPERV'D BY S.E.R.	PERIODIC DURING REINF. & GROUT PLACMT	AS APPROVED BY S.E.R.
MNBC 1705.2.2	ROOF DECK WELDING	ENGR. OR TECH. SPERV'D BY S.E.R.	PERIODIC DURING INSTALLATION	AS APPROVED BY S.E.R.
IBC 1705.2.3	STRUCTURAL STEEL BOLTING AND WELDING	ENGR. OR TECH. SPERV'D BY S.E.R.	PERIODIC	AS APPROVED BY S.E.R.

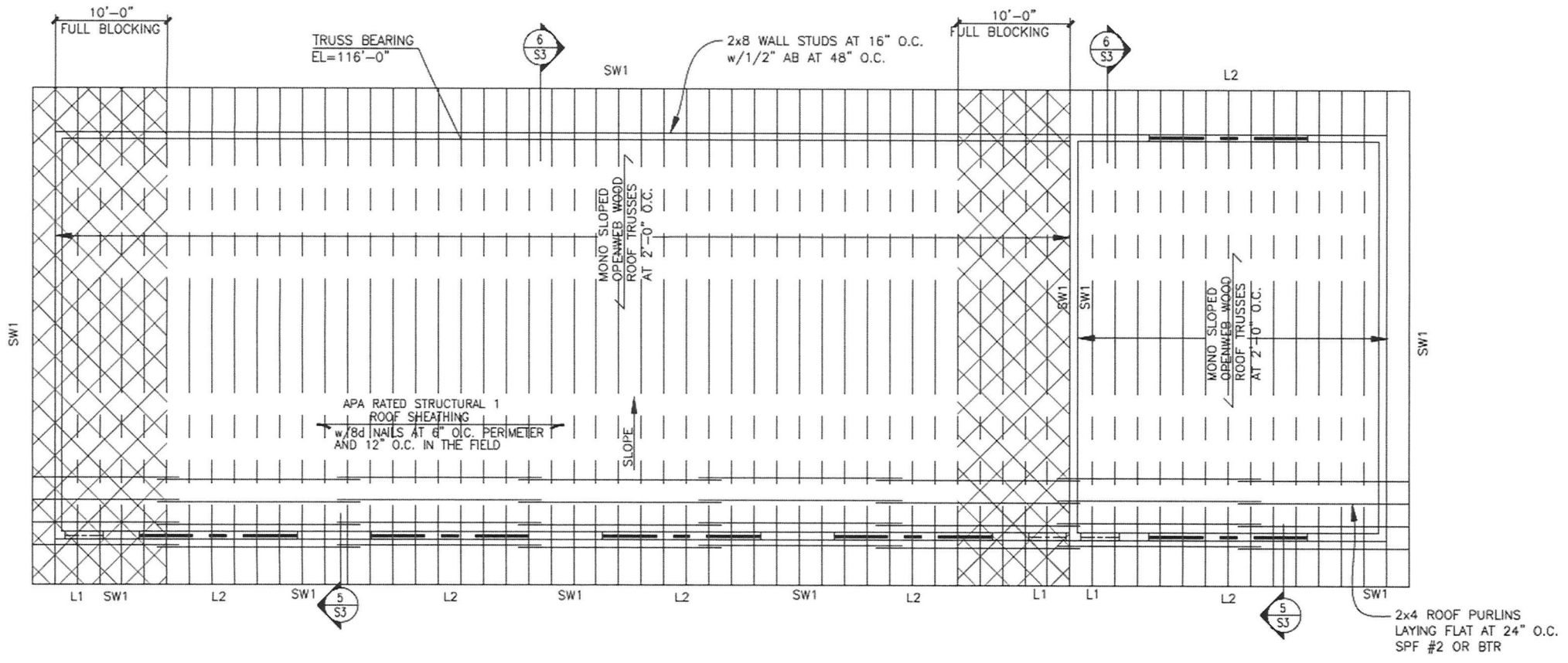
7. 1. S.E.R. = STRUCTURAL ENGINEER OF RECORD.

8. 2. FOUNDATION DESIGN IS BASED ON CONCRETE STRENGTH OF 2500 PSI AND THEREFORE DOES NOT REQUIRE SPECIAL INSPECTION BY IBC 1705.5.2.3.

CONCRETE PROTECTION FOR REINFORCEMENT

DESCRIPTION	MINIMUM CLEAR COVER REQUIRED (INCHES)
SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
SURFACES EXPOSED TO EARTH OR WEATHER - #6 BAR AND LARGER	2
SURFACES EXPOSED TO EARTH OR WEATHER - #5 BAR AND SMALLER (INCLUDING MESH)	1 1/2
SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - SLABS, WALLS, JOISTS	3/4
SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - BEAMS, COLUMNS	1 1/2

NOTE: CONCRETE COVER REQUIREMENTS NOT LISTED HEREIN SHALL BE IN ACCORDANCE WITH ACI 318.




ROOF FRAMING PLAN

1/8"=1'-0"



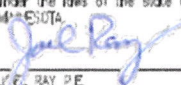
GENERAL FOUNDATION NOTES:

1. ALL COLUMNS FOOTINGS ARE CENTERED ON COLUMNS AND WALL FOOTINGS ARE CENTERED BENEATH WALL U.N.O.
2. FOR GENERAL STRUCTURAL NOTES AND SPECIFICATIONS SEE S1.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RECESSED SLABS. SLOPED AREAS IN SLABS ON GRADE, AND CURBS.
5. VERIFY ALL OPENINGS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. INSTALL FOUNDATION DRAIN TILE PER RECOMMENDATIONS OF SOILS REPORT AND AS INDICATED ON ARCHITECTURAL SECTIONS.
7. COORDINATE LOCATION OF STEPPED FOOTINGS WITH CIVIL DOCUMENTS. MAINTAIN MINIMUM FROST COVER OF 3'-6" AT BUILDING FOUNDATIONS AND 5'-0" AT FOOTINGS AWAY FROM BUILDING. VERIFY COVER REQUIREMENTS WITH GEOTECHNICAL REPORT.



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 Phone: (320) 259-6575
 Email: info@duffyeng.com

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed ENGINEER under the laws of the state of MINNESOTA.


 J. L. RAY P.E.
 07-11-25 45920
 Date License No.

REVISIONS:	No.	Date	Action			

FOOTING SCHEDULE

MK	SIZE	REINFORCING
TSE14	1'-4"x1'-8" THICKENED SLAB EDGE	2-#5 CONT
TSE20	2'-0"x1'-0" THICKENED SLAB FOOTING	2-#5 CONT

ROOF FRAMING NOTES:

1. FOR COLUMN SCHEDULE AND BASEPLATE DETAILS SEE S2.
2. FOR GENERAL STRUCTURAL NOTES AND SPECIFICATIONS SEE S1.
3. REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS OF WALLS, OPENINGS, AND ADDITIONAL DETAILS OR SECTIONS.

FOOTING FOUNDATION PLAN
 ROOF FRAMING PLAN

LINTEL SCHEDULE

MK	SIZE, TYPE	S=STUD JAMB T=TRIMMER (UNLESS NOTED OTHERWISE ON PLAN)
L1	(2)2x8 SPF #1	2S,1T
L2	(3) 1 3/4"x 16" 1.55E LSL	2S,2T

- NOTE: 1. LINTEL DESIGNATION WITH * INDICATES LINTEL IS ELEVATED INTO TRUSS/JOIST SPACE.
2. TWO PLY LVL MUST BE NAILED TOGETHER WITH 3 ROWS OF 16d COMMON NAILS AT 12" OC. THREE PLY LVL MUST BE NAILED TOGETHER WITH 3 ROWS OF 16d COMMON NAILS AT 6" OC. FOUR PLY LVL MUST BE BOLTED TOGETHER WITH 1/2" BOLTS AT 12" OC T&B STAGGERED. TOP AND BOTTOM ROWS OF NAILS OR BOLTS SHALL BE LOCATED 2" FROM THE TOP AND BOTTOM OF THE MEMBER.

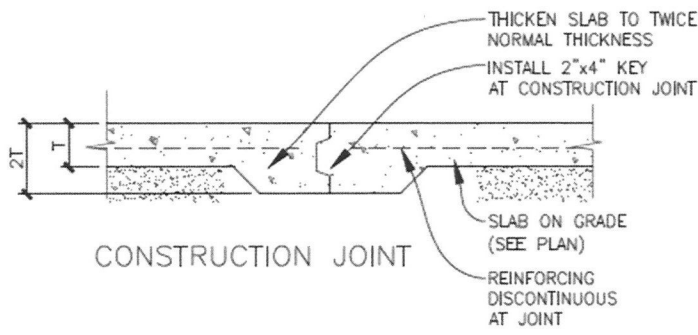
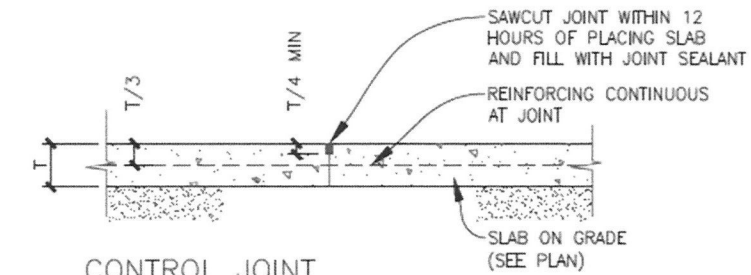
CONTEGRITY GROUP
 AITKIN COUNTY
 315 1ST ST NW
 AITKIN MN

SHEAR WALL SCHEDULE

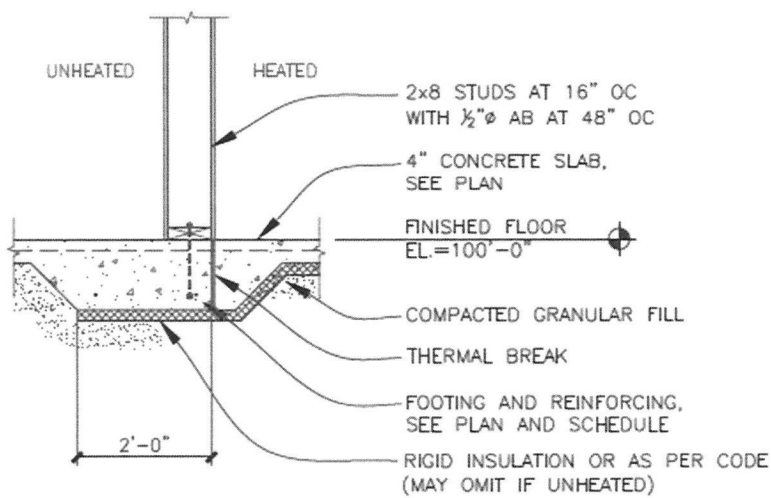
TYPE	SHEAR PANEL	WALL FASTENER	PATTERN SPACING		
			EDGE	RIDGE	NOTES
SW1	7/16" OSB	8d	4"	12"	

Project No.: 25115
 Date: 07-11-25
 Drawn by: CLW
 Checked by: JR

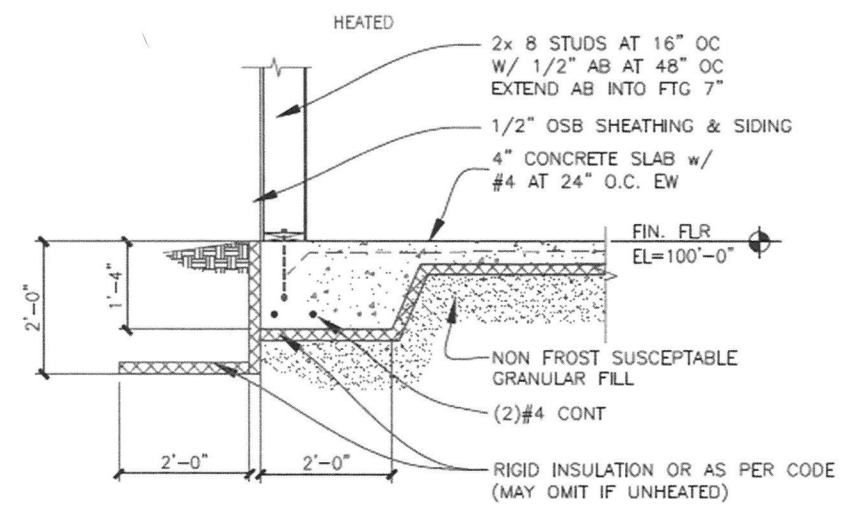
S2 OF 3



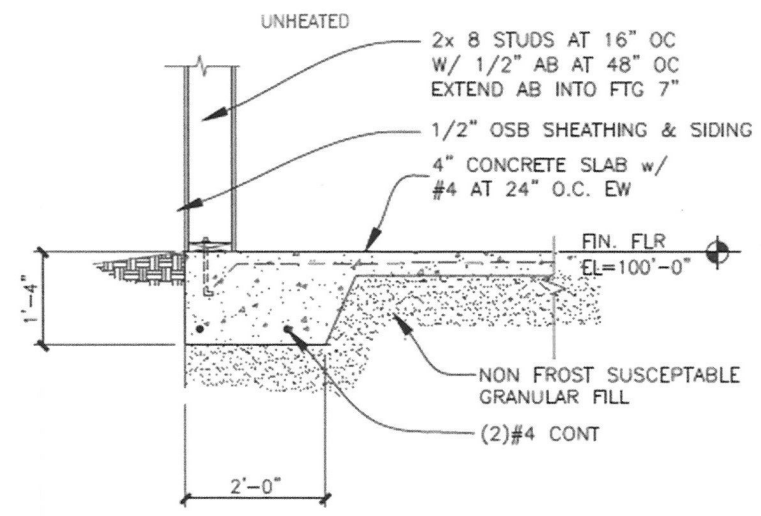
1 DETAIL N.T.S.



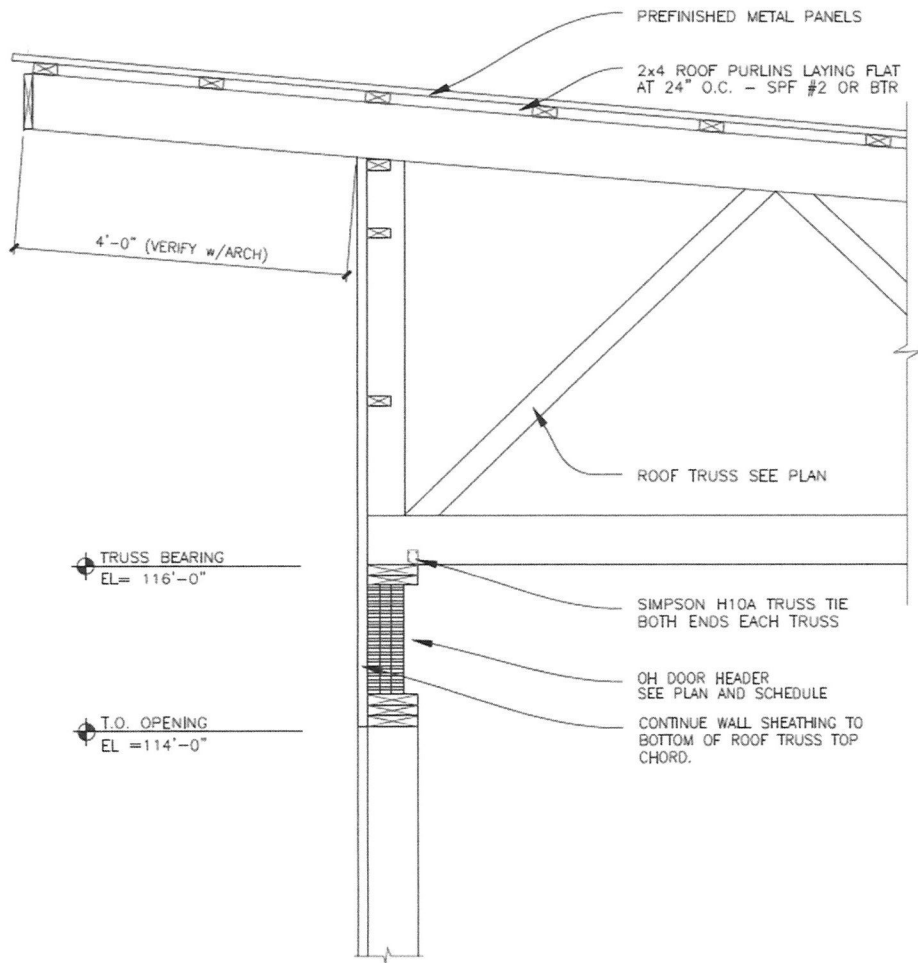
3 DETAIL THICKENED SLAB 1/2"=1'-0"



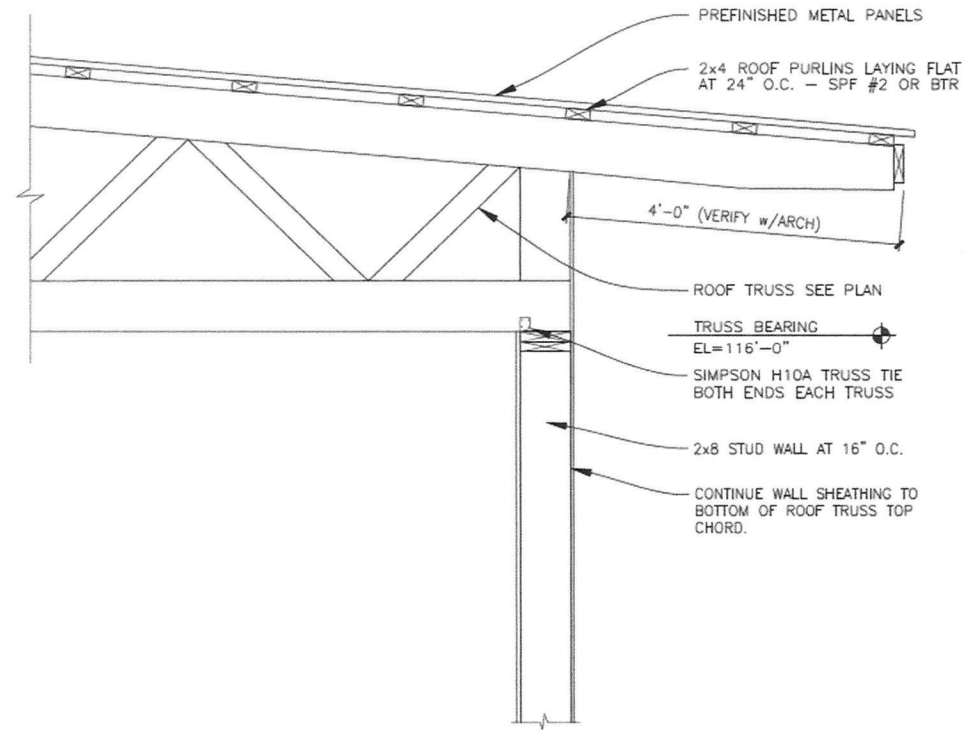
2 FLOATING SLAB w/HEAT FND DETAIL 1/2"=1'-0"



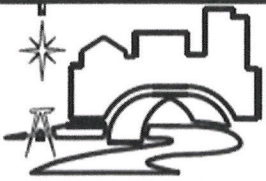
4 FLOATING SLAB w/COLD FND DETAIL 1/2"=1'-0"



5 DETAIL $\frac{3}{4}'' = 1'-0''$



6 DETAIL $\frac{3}{4}'' = 1'-0''$



DUFFY ENGINEERING
AND ASSOCIATES, INC.

STRUCTURAL ENGINEERING

350 Highway 10 South
Saint Cloud, MN 56304

Phone:

(320) 259-6575

Email:

info@duffyeng.com

I hereby certify that this plan,
specification or report was
prepared by me or under my
direct supervision and that I
am a duly Licensed ENGINEER
under the laws of the state of
MINNESOTA.

Joel Ray
JOEL RAY P.E.

07-11-25

45920

Date

License No.

REVISIONS:		No. Date	Action

SECTIONS AND DETAILS

CONTEGRITY GROUP
AITKIN COUNTY
315 1ST ST NW
AITKIN MN

Project No.: 25115
Date: 07-11-25
Drawn by: GLW
Checked by: JR

S3 OF 3

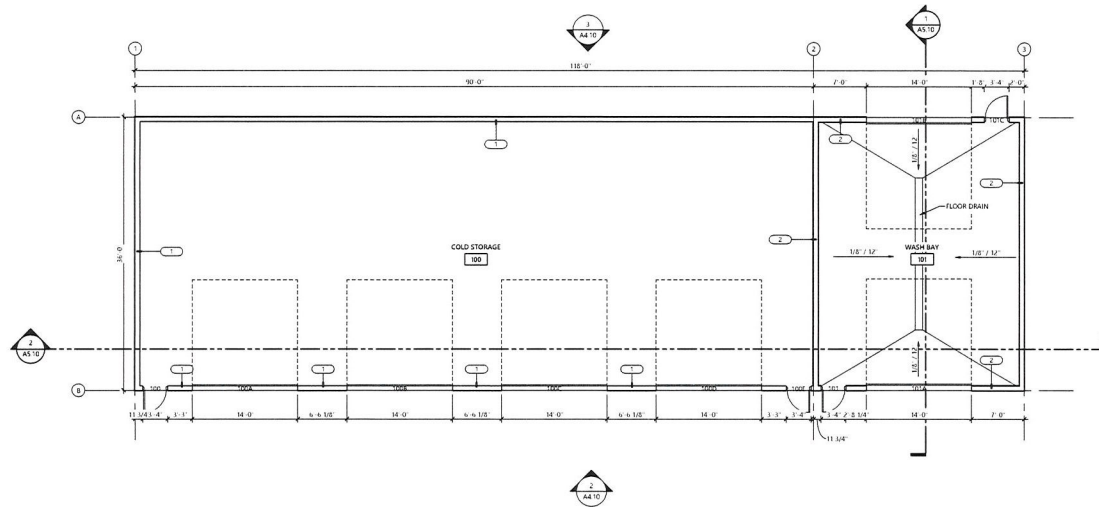
- GENERAL FLOOR PLAN NOTES:**
- ALL INTERIOR PARTITION WALLS ARE METAL STUDS @ 16" O.C WITH 5/8" GWB EACH SIDE (U.N.O.)
 - DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY
 - ALL PIPING, CONDUITS, AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN DRYPWALL, FURRING AS REQUIRED IN FINISHED AREAS, WHETHER SHOWN ON DRAWINGS OR NOT (U.N.O.)
 - PROVIDE METAL PLATE BACKING AND/OR TREATED WOOD BLOCKING IN WALLS WHERE WALL-MOUNTED EQUIPMENT IS SHOWN ON PANS OR ELEVATIONS. VERIFY HEIGHT AND LENGTH WITH ACTUAL EQUIPMENT.
 - ALL MECHANICAL EQUIPMENT PANS TO BE 4" HIGH U.N.O. LENGTH AND WIDTH OF PANS TO BE VERIFIED BY CONTRACTOR.
 - ALL DIMENSIONS ARE CLEAR FROM THE CENTER OF STUD TO CENTER OF STUD. SEE PARTITION TYPES FOR ACTUAL THICKNESS OF PARTITIONS. MASONRY WALLS ARE DIMENSIONED TO THE NOMINAL FACE.
 - ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF STUD. ALL INTERIOR DIMENSIONS ARE TO THE CENTER OF THE WALL (U.N.O.)
 - PATCH ALL HOLES IN SURFACES WHERE EQUIPMENT HAS BEEN REMOVED OR DEMOLITION HAS OCCURRED. PREPARED SURFACES AS REQUIRED FOR NEW FINISHES. PATCH TO MATCH ADJACENT SURFACE IF NOT SCHEDULED.
 - ALL FLOOR OPENINGS AND DEPRESSIONS IN THE WORK SHALL BE FILLED OR CLOSED U.N.O. WITH MATERIALS TO MATCH ADJACENT SURFACES. FINISHES ARE FIRE RATED.
 - PROVIDE CONTROL JOINTS FOR GYPSUM BOARD WALLS. MAXIMUM SPACING PER ASTM C 840 AND GA-216.

ROOM FINISH SYMBOL LEGEND

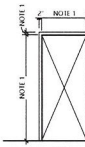
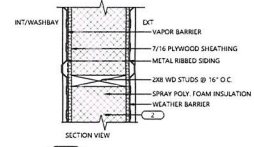
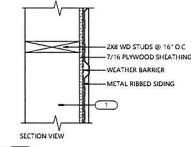
	FLOOR FINISH CHANGE SYMBOL
	DENOTES DIRECTION OF FLOORING INSTALLATION PATTERN
	DENOTES LOCATION OF CORNER GUARDS

KEYED PLAN NOTES

#	DESCRIPTION
---	-------------



EXTERIOR WALL TYPES

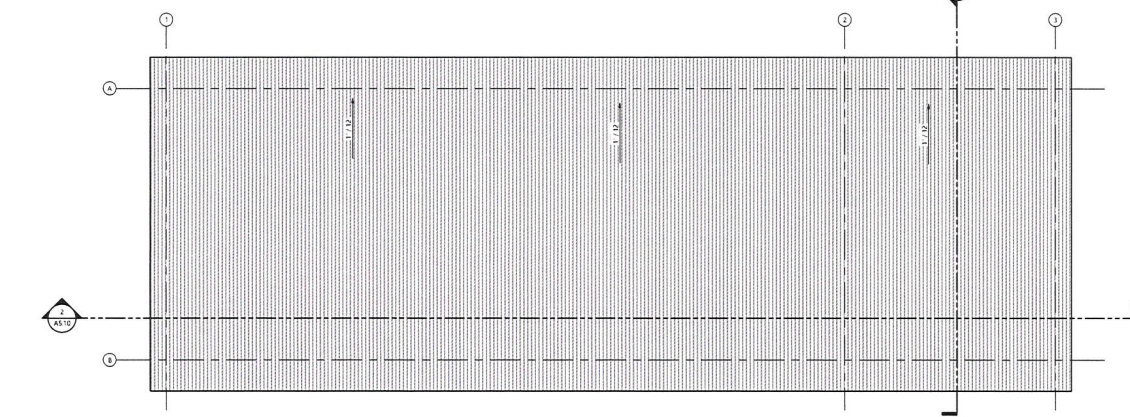


HOLLOW METAL FRAME TYPES

- FRAME TYPE NOTES**
- SEE DOOR SCHEDULE FOR SIZES
 - EXTERIOR (GL-1)
 - INTERIOR (GL-1)

DOOR SCHEDULE - NEW DOORS

DOOR #	HANDWARE GROUP	DOOR			FRAME			(IF APPLICABLE)		FIRE RATING	COMMENTS			
		WIDTH	HEIGHT	TYPE	GLAZING TYPE	MATERIAL	FINISH	TYPE	MATERIAL			FINISH	HEAD HEIGHT	DEPTH
100		7'-0"	7'-0"	I				HM	HM	PT-1	2"	5.5/8"		
100A		14'-0"	84'-0"	OH						PT-2				
100B		14'-0"	14'-0"	OH						PT-2				
100C		14'-0"	14'-0"	OH						PT-2				
100D		14'-0"	14'-0"	OH						PT-2				
100E		7'-0"	7'-0"	I			HM	HM	HM	PT-1	2"	5.5/8"		
101		7'-0"	7'-0"	I			HM	HM	HM	PT-1	2"	5.5/8"		
101A		14'-0"	14'-0"	OH						PT-2				
101B		14'-0"	14'-0"	OH						PT-2				
101C		7'-0"	7'-0"	I			HM	HM	HM	PT-1	2"	5.5/8"		



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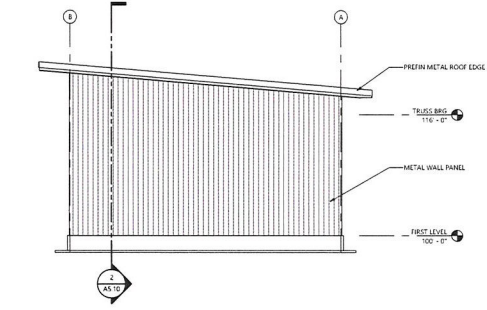
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DATE	REV#	REVISIONS DESCRIPTION

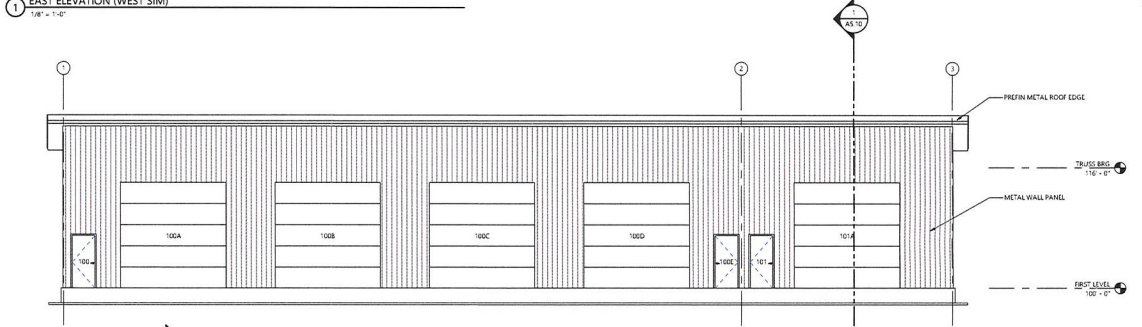
BOAT & STORAGE BUILDING
FLOOR & ROOF PLANS

A1.10
PROJECT #: 2023-11573

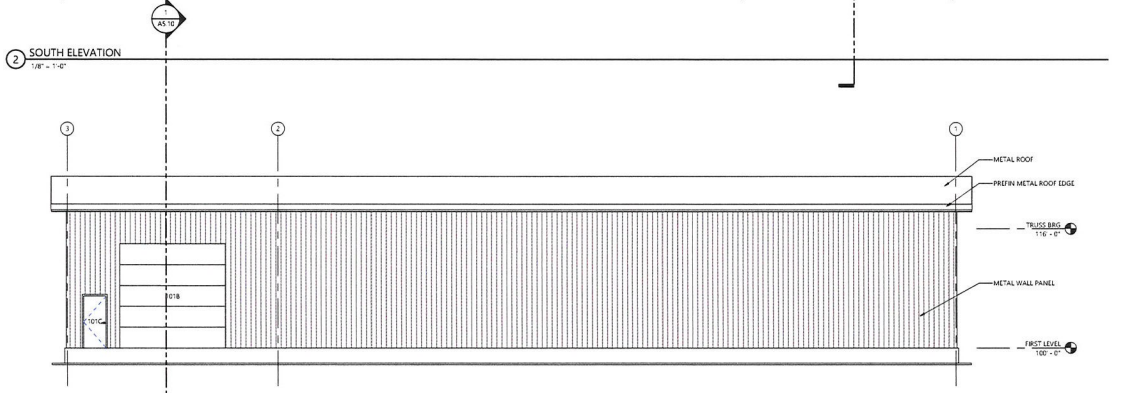
KEYED PLAN NOTES	
#	DESCRIPTION



1 EAST ELEVATION (WEST SIM)
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION
1/8" = 1'-0"

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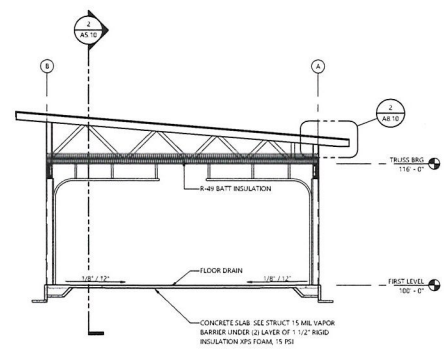
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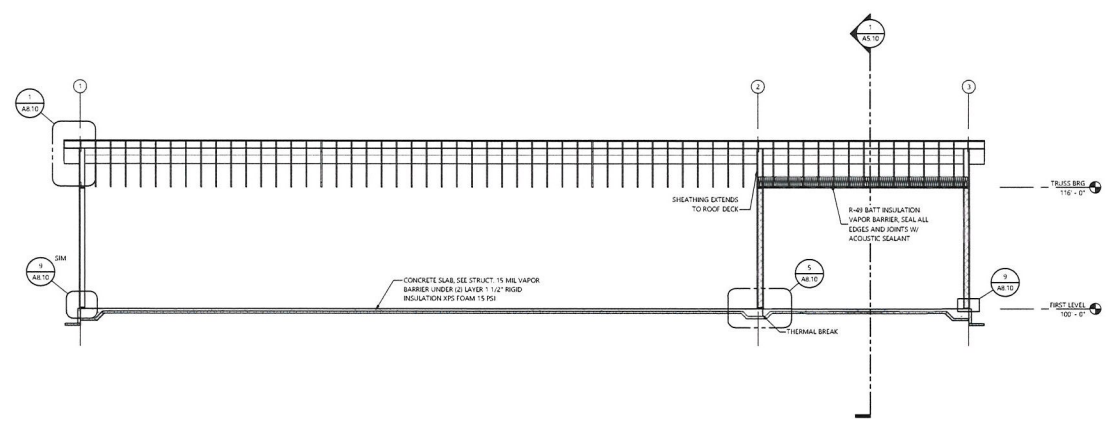
DATE	REV#	REVISIONS DESCRIPTION

BOAT & STORAGE BUILDING
BUILDING ELEVATIONS

A4.10
PROJECT # 2023-11575



1 CROSS SECTION THROUGH WASH BAY
1/8" = 1'-0"



2 LONGITUDINAL SECTION
1/8" = 1'-0"

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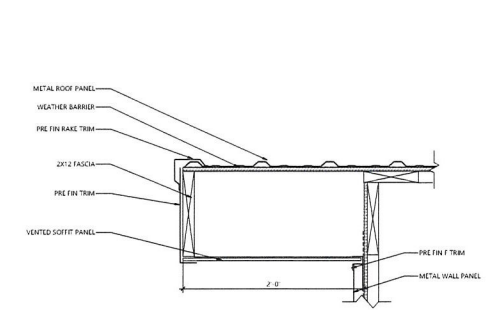
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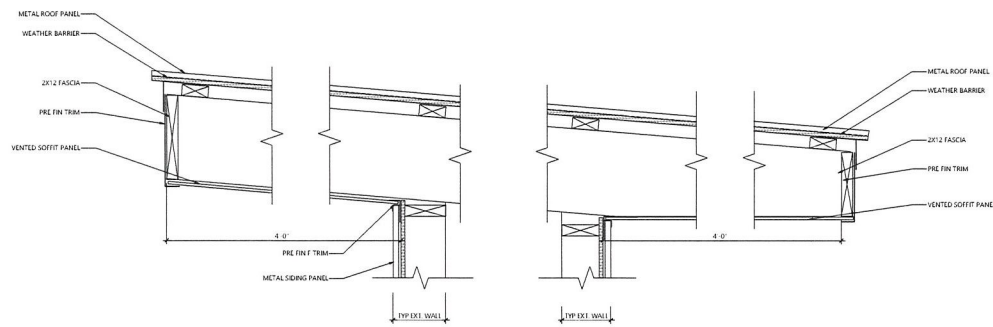
DATE	REV#	REVISIONS DESCRIPTION

BOAT & STORAGE BUILDING
BUILDING SECTIONS

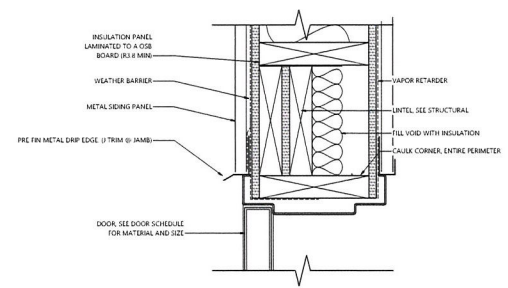
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PROJECT #: 2023-11575



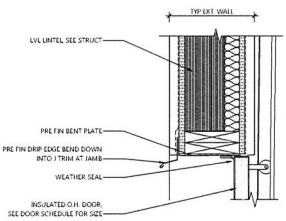
1 RAKE DETAIL
1/12" = 1'-0"



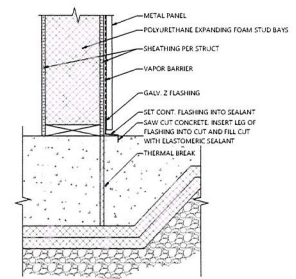
2 EAVE DETAILS
1/12" = 1'-0"



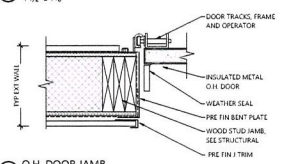
3 DOOR HEAD (JAMB SIM)
3/4" = 1'-0"



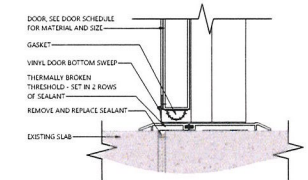
4 O.H. DOOR HEAD
1/12" = 1'-0"



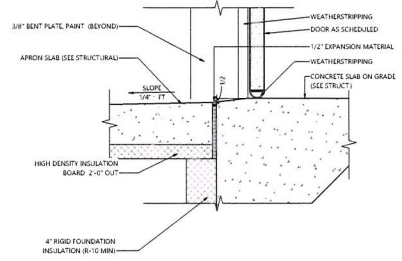
5 WASH BAY PARTITION AT THICKENED SLAB
1/12" = 1'-0"



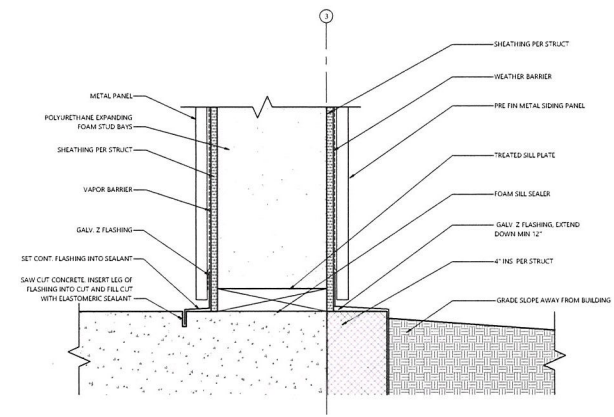
7 O.H. DOOR JAMB
1/12" = 1'-0"



6 DOOR THRESHOLD
3/4" = 1'-0"



8 O.H. DOOR DETAIL, THRESHOLD
1/12" = 1'-0"



9 TYP EXT. WALL DETAIL
3/4" = 1'-0"

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DATE	REV	REVISIONS DESCRIPTION

BOAT & STORAGE BUILDING
DETAILS

A8.10
PROJECT #: 2023-11575