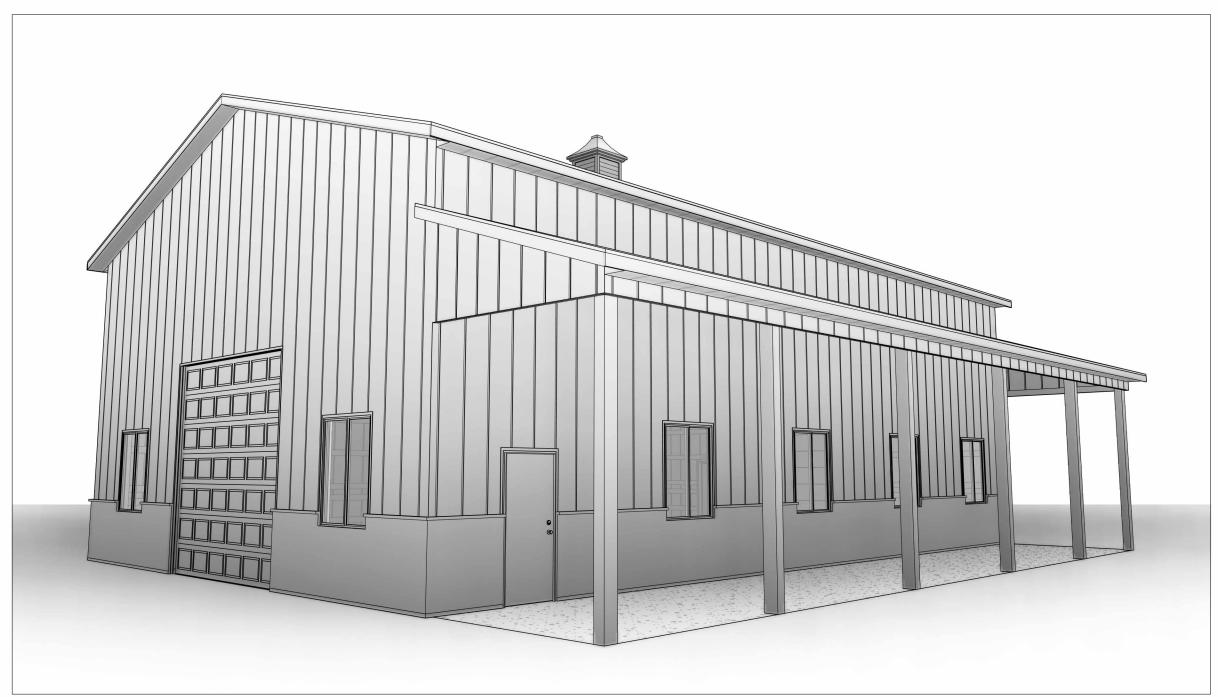
ROPER BUILDINGS MARC NAYLOR BUILDING



BUILDING INFORMATION

BUILDING INFORMATION:

DIMENSIONS: 37' x 57' = 2,109 Sq. Ft. LEAN DIMENSIONS: 10' x 57' = 570 Sq. Ft.

TOTAL SQUARE FOOTAGE: 2,679 Sq. Ft.

ADDRESS: 4602 N. 3300 E. Liberty, UT 84310

USAGE: Agricultural



DRAWING INDEX

A0	Title Page
A1	Foundation Plan
A2	First Floor Plan
A3	Framing Plans
A4	Roof Plan
A5	Elevations
A6	Panel Layouts
A7	Details 1
A8	Details 2
A9	Engineering Notes

DATE:

12/14/2023

ROPER BUILDINGS / DMLP RESOURCES PHONE: (801) 689-3630

SITE INFORMATION:

Scale: 1" = 10'-0"

Drawn by: JDJ

Job: NAYLOR

Sheet Size: B 17" x 11"

Foundation Plan Depth 40" **A1** 40"

JACKSON D SAGERS

13258211/ 12/14/2023

Diameter

24"

30"

39"

44"

40"

40"

PIERS

Type

F24

F30

F39

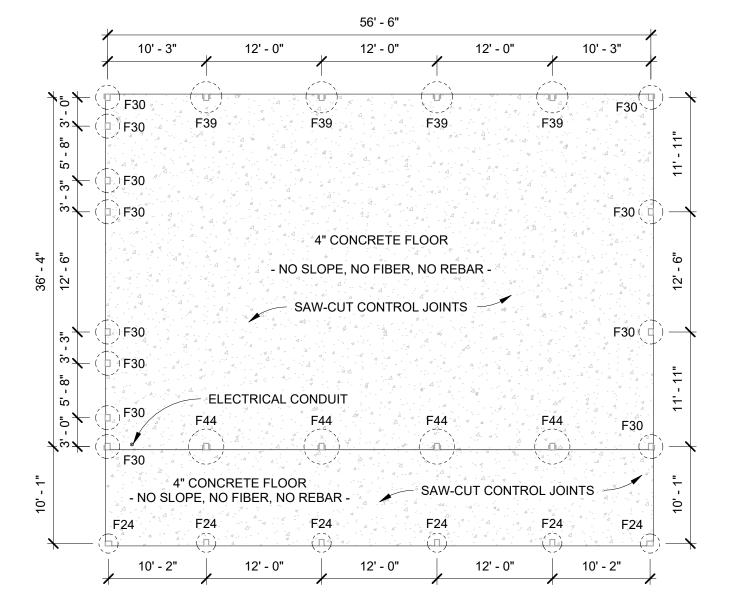
F44

Count

6

12

4



FOUNDATION PLAN 1" = 10'-0"

WEST (FRONT OF BUILDING)

SOUTH

DOORS Width Height Mark | Count Type INSULATED O.H.D. | 12' - 0" | 12' - 0" INSULATED O.H.D. | 12' - 0" | 14' - 0" 3' - 0" 6' - 8" 2 M.D.

		WINDOW	WINDOWS				
Mark	Count	Туре	Width	Height	Sill Height	NORTH	
Α	6	SLIDER FRAME-OUT	4' - 0"	5' - 0"	3' - 4"		
В	4	PICTURE FRAME-OUT	6' - 0"	2' - 0"	15' - 0"		

INS	ULATION	1
ROOF	WALLS	R

INOULATION				
ROOF	WALLS	ROLLS		
_	-	-		

ROPER BUILDINGS / DMLP RESOURCES (801) 689-3630

BUILDING OR

4602 N. 3300 E. Liberty, UT 84310 MARC NAYI

Date: 12/14/2023

Scale: 1" = 10'-0"

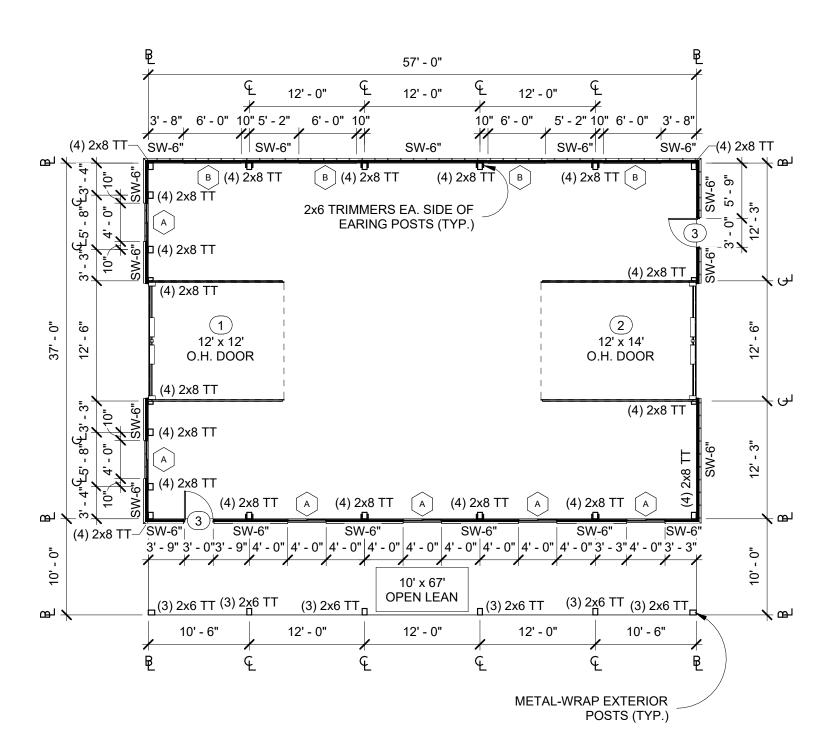
Drawn by: JDJ

Job: NAYLOR

Sheet Size: B 17" x 11"

First Floor Plan

A2



NOTES:

POST TABLE

TITAN TIMBER

(3) PLY 2x6

(4) PLY 2x8

Quantity

20

1. EMBED POST INTO CONCRETE PIER. SEE DETAIL 8/A7.

JACKSON D. SAGERS

13258211*(* 12/14/2023

Description

(3) PLY 2x6 TITAN TIMBER

(4) PLY 2x8 TITAN TIMBER

POSTS

2. WALLS: STANDARD GIRTS, 29 GA. STEEL PANEL.

3. ALL POSTS ARE TREATED HF #1 UNLESS OTHERWISE SPECIFIED.

FLOOR PLAN 1" = 10'-0"

(FRONT OF BUILDING)

SOUTH

(801) 689-3630

Scale: 3/32" = 1'-0"

Drawn by: JDJ

Job: NAYLOR

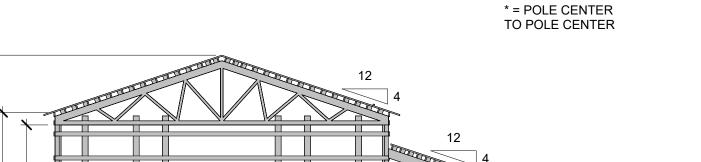
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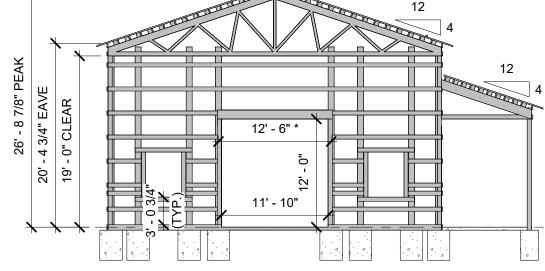
Framing Plans

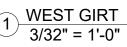
JACKSON D. SAGERS

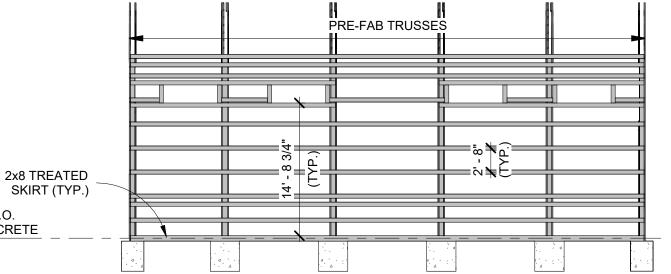
LOON DOW 13258211/ 12/14/2023/

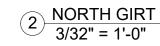
A3





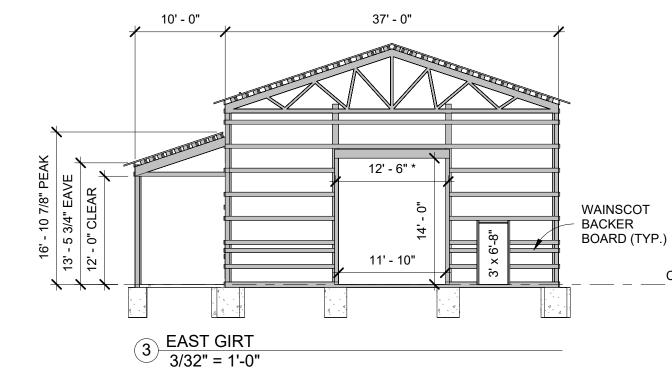


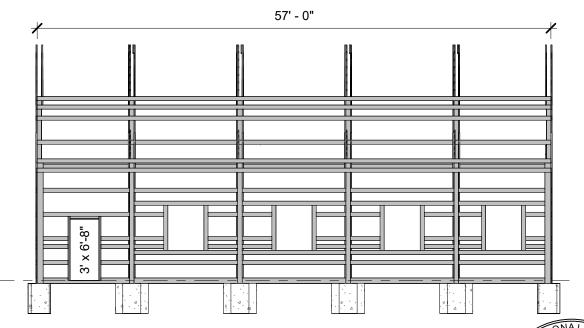




T.O. CONCRETE

T.O. CONCRETE





SOUTH GIRT 3/32" = 1'-0"

(801) 689-3630

JACKSON D SAGERS

13258211

ROOF FRAMING NOTES:

4:12 ALL ROOF PITCHES

FROM RIDGE LINE.

PURLINS: 2x6 DF #2 @ 16" O.C. MAIN, 12" O.C. LEAN, OVERLAPPED 10" MIN. STARTING 5" MAX.

A4

1' - 0" 2x6 DF #2 @ 16" O.C. OVERLAPPED 10" MIN. STARTING 5" MAX. FROM RIDGE LINE. 2x6 DIAG BRACE 2x6 DIAG BRACE 2x6 DIAG BRACE 2x6 DIAG BRACE 0 2x6 DIAG BRACE 2x6 DIAG BRACE (2) PLY PRE-FAB TRUSS (2) PLY PRE-FAB TRUSS (2) PLY PRE-FAB TRUSS TY PRE-FAB TRUSS (2) PLY PRE-FAB TRUSS (3) PLY PRE-FAB TRUSS (4) P 2x6 DIAG BRACE ב 2x6 DIAG BRACE 2x6 DF #2 @ 12" O.C. OVERLAPPED 10" MIN. STARTING 5" MAX. FROM RIDGE LINE. 2x6 DIAG BRACE JOVERHANG 1 **SNOW RAKE** 2x6 DIAG BRACE

WEST

ROOF PLAN 1" = 10'-0"

SOUTH

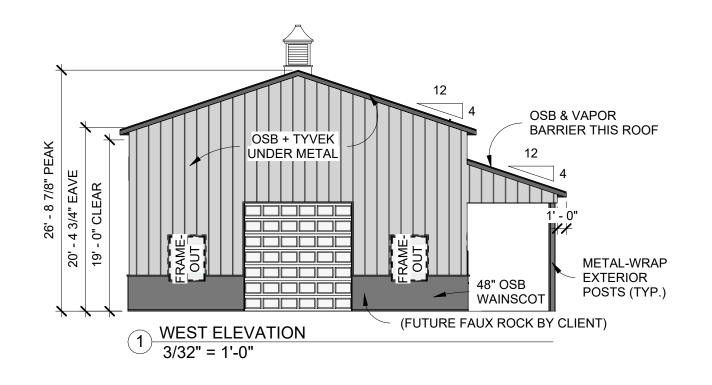
Scale: 3/32" = 1'-0" Drawn by: JDJ

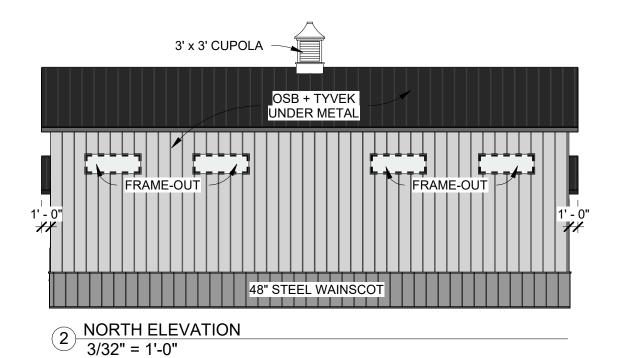
Job: NAYLOR

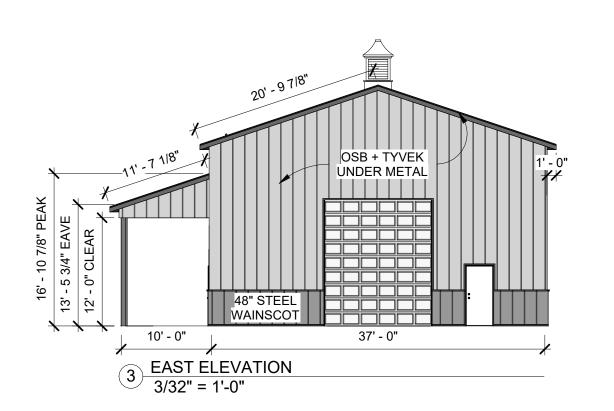
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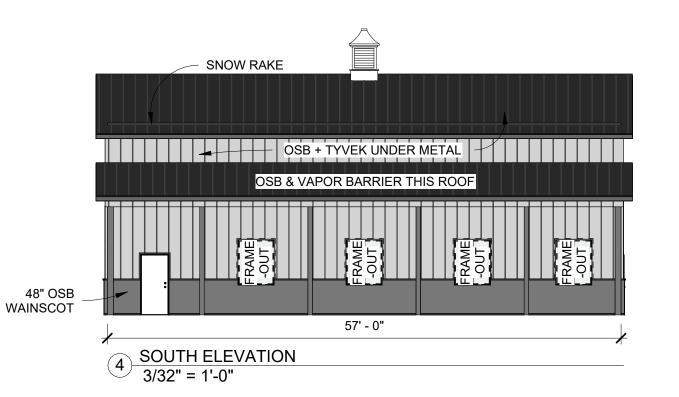
Elevations

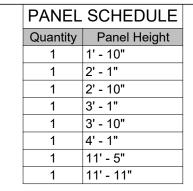
A5











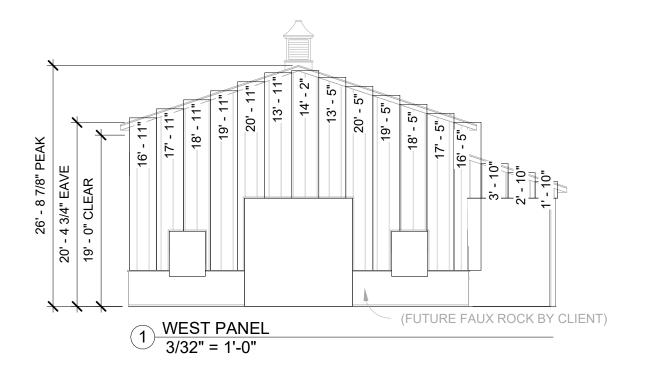
PANEL	SCHEDULE
Quantity	Panel Height
1	12' - 2"
1	13' - 5"
1	13' - 11"
1	14' - 2"
38	15' - 7"
2	16' - 5"
2	16' - 11"
2	17' - 5"
2	17' - 11"
2	18' - 5"
2	18' - 11"
2	19' - 5"
2	19' - 11"
2	20' - 5"
	001 111

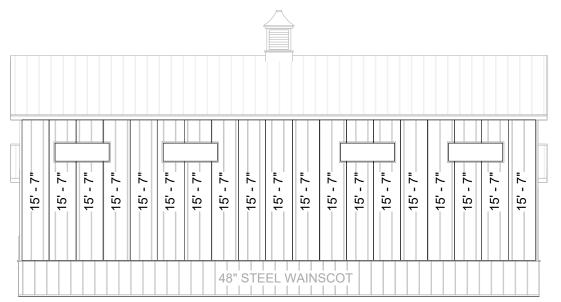
PAINEL SCHEDULE					
Quantity	Panel Height				
1	12' - 2"				
1	13' - 5"				
1	13' - 11"				
1	14' - 2"				
38	15' - 7"				
2	16' - 5"				
2	16' - 11"				
2	17' - 5"				
2	17' - 11"				
2	18' - 5"				
2	18' - 11"				
2	19' - 5"				
2	19' - 11"				
2	20' - 5"				
2	20' - 11"				

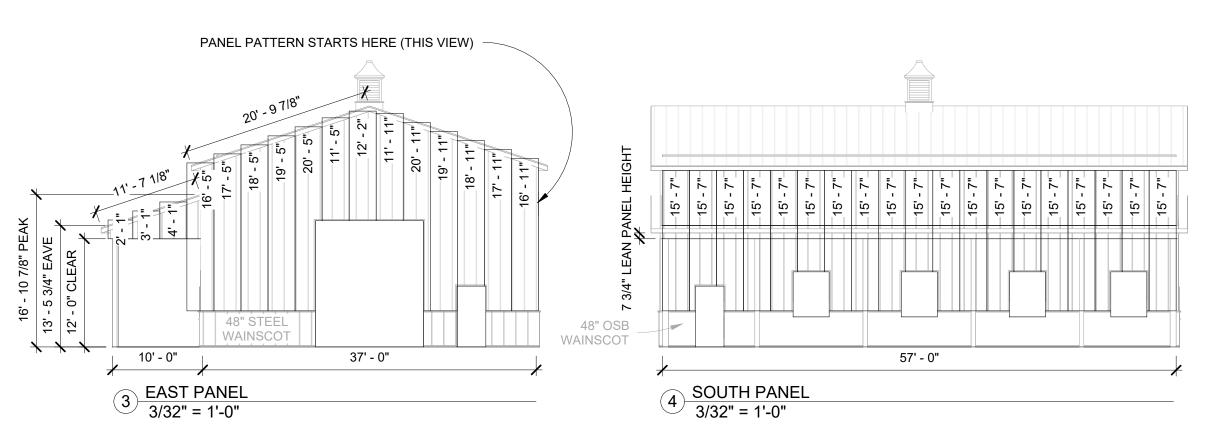
ROPER BUILDINGS / DMLP RESOURCES

(801) 689-3630

Quantity	Panel Height
1	12' - 2"
1	13' - 5"
1	13' - 11"
1	14' - 2"
38	15' - 7"
2	16' - 5"
2	16' - 11"
2	17' - 5"
2	17' - 11"
2	18' - 5"
2	18' - 11"
2	19' - 5"
2	19' - 11"
2	20' - 5"
2	20' - 11"







NORTH PANEL 3/32" = 1'-0"

Date: 12/14/2023

MARC NAYLOR BUILDING

4602 N. 3300 E. Liberty, UT 84310

Scale: 3/32" = 1'-0" Drawn by: JDJ

Job: NAYLOR

Sheet Size: B 17" x 11"

Panel Layouts

A6

(801) 689-3630

OR

MARC NAYI

Date: 12/14/2023 Scale: As indicated

Drawn by: JDJ

Job: NAYLOR

Sheet Size: B 17" x 11"

Details 1

A7

BARRIER BETWEEN METAL SIDING PANEL SEE TYPICAL AND AC Q TREATED LUMBER WALL SECTION ON SHEET 07 PANEL FASTENERS **INSIDE CLOSURE STRIP** BASE TRIM CONCRETE SLAB AS OCCURS SLOPE GRADE AWAY FROM SEE FOUNDATION PLAN BUILDING MIN. OF 1/2" PER 2x8 TREATED PLANK FOOT FOR A MIN. OF 6'

WINDOW/DOOR HEADER FLASHING

SIDING PANEL SEE

PANEL FASTENERS

ON SHEET A7

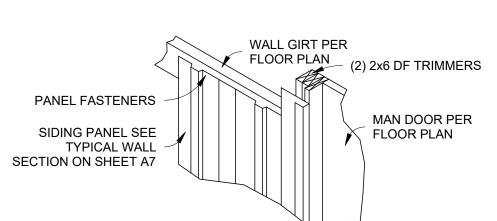
DRIP CAP TRIM

TYPICAL WALL SECTION

3 T.O. ROOF DETAIL N.T.S.

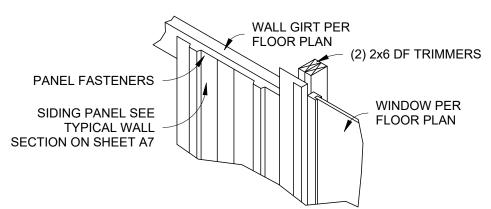
TRUSS

(PER PLAN)



MAN DOOR JAMB FLASHING N.T.S.

BASE GUARD FLASHING



WINDOW JAMB FLASHING N.T.S.

INSIDE CLOSURE

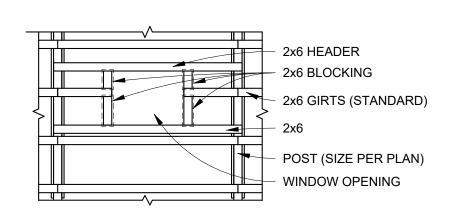
2x HEADER PER

WINDOW OR

DETAIL SHEET A7

STRIP

DOOR



FIRST GIRT SPACING FROM RIDGE OF TRUSS

REMAINING PURLINS

DOUBLE PURLINS FOR RIDGE

ACKSON D

SAGERS

(DON DONG 13258211

SPACED PER PLAN

BACKING ADDED TO TOP

PURLINS ON BOTH SIDES

WINDOW OPENING (STANDARD GIRTS)
N.T.S. 6

BLOCKING

CUT-OUT

L-BRACKET

(2) 2x6 HEADERS

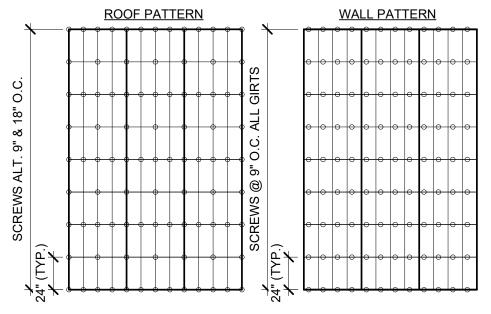
2x6 LAID FLAT (STANDARD)

BETWEEN TRIMMERS

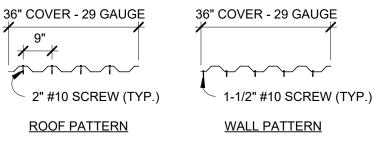
POST (SIZE PER PLAN)

TREATED 2x8 (GREY)

CONCRETE SLAB



ROOF & WALL PANELS: 29 GA. AG PANELS FABRAL NAME: GRAND RIB 3 - 3' COVER TRI-STATE NAME: TUFF RIB - 3' COVER

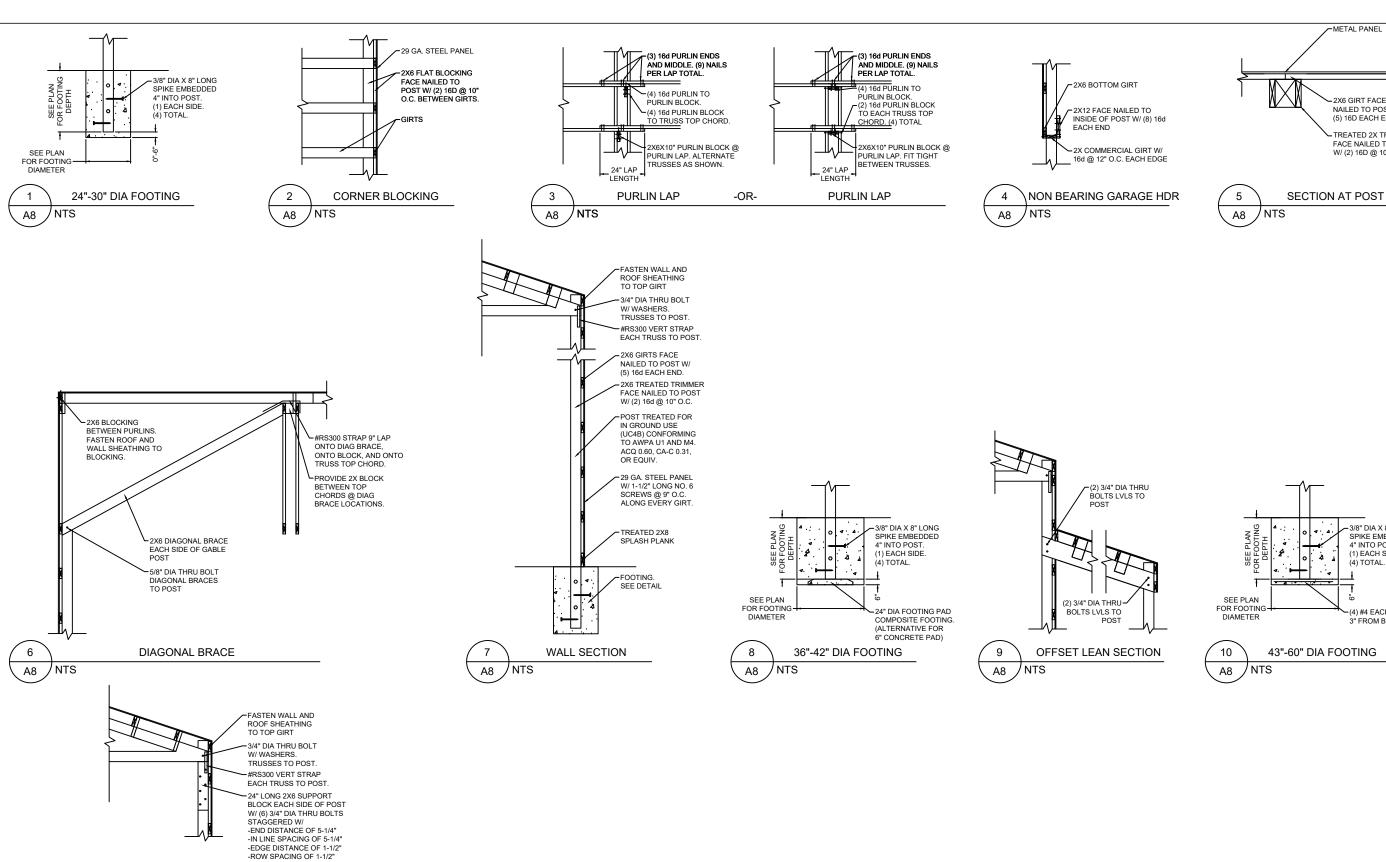


MD OPENING N.T.S.

OPENING

DOOR (

ROPER BUILDINGS SCREW PATTERNS N.T.S.



3/4" THRU BOLT TRUSS SUPPORT ALTERNATIVE

A8 /NTS

ONAL JACKSON DÌ **SAGERS** Koon Dag 13258211

R BUILDINGS / RESOURCES ROPER DMLP R

(801) 689-3630

METAL PANEL

2X6 GIRT FACE

NAILED TO POST W/

TREATED 2X TRIMMER FACE NAILED TO POST W/ (2) 16D @ 10" O.C.

-3/8" DIA X 8" LONG

SPIKE EMBEDDED

(4) #4 EACH WAY

3" FROM BOTTOM

4" INTO POST. (1) EACH SIDE.

(4) TOTAL.

(5) 16D EACH END

BUILDING 4602 N. 3300 E. Liberty, UT 84310 MARC NAY

Date: 12/14/2023

Scale:

Drawn by: JDJ

Job: NAYLOR

Sheet Size: B 17" x 11"

Details 2

A8

PROVIDE INDUSTRY STANDARD GOOD CARE AND PRACTICE FOR MISCELLANEOUS ELEMENTS NOT SHOWN ON PLANS AND SHALL CONTACT ENGINEER FOR FURTHER INFORMATION IF REQUIRED STRUCTURAL ENGINEERING PROVIDED HEREIN ASSUMES FINAL CONSTRUCTED CONDITION CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY OF UNFINISHED STRUCTURE DURING ALL STAGES OF CONSTRUCTION, CONSTRUCTION LOADS SHALL NO EXCEED DESIGN LIVE LOADS SHOWN IN DESIGN CRITERIA CONTRACTOR SHALL PROVIDE BRACING OR SHORING AS NECESSAR

OR CONDITION OF THE STRUCTURE, AS SUCH, CONTRACTOR SHALL

TO SUPPORT UNFINISHED STRUCTURE.
WHITE PINE ENGINEERING (WPE) ASSUMES NO LIABILITY FOR THE MEANS AND METHODS OF CONSTRUCTION PRACTICES, CONTRACTOR IS RESPONSIBLE FOR ALL MEANS OF CONSTRUCTION AND FOR JOBSITE SAFETY PER OSHA REGULATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING APPROVAL

AND ANY NECESSARY PERMITS FROM THE GOVERNING MUNICIPALIT PRIOR TO BEGINNING OF CONSTRUCTION. ANY OBSERVATIONS PROVIDED BY WPE DURING CONSTRUCTION SHALL BE CONSIDERED OBSERVATIONS LIMITED TO THE SCOPE REQUESTED, AND NOT FULL INSPECTIONS OR APPROVAL. THE

GOVERNING MUNICIPALITY SHALL BE SOLELY RESPONSIBLE FOR INSPECTIONS AND APPROVAL OF FINAL CONSTRUCTION. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES. BETWEEN ACTUAL CONDITIONS AND CONDITIONS ASSUMED ON THESE PLANS (I.E. DIMENSIONS, MATERIALS, ASSUMED LOADS, ETC)

SHOP DRAWINGS FOR ANY PRE-MANUFACTURED STRUCTURAL ELEMENTS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD TO REVIEW IF DIMENSIONS OR OTHER ASPECTS OF SHOP DRAWINGS DIFFER FROM THOSE ON THESE PLANS.

EXPOSURE CONDITION BAR SIZE OR MEMBER DISTANCE (MIN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH #5 AND SMALLER 1-1/2" HOWEVER, DO NOT AND CAN NOT PROVIDE EVERY EXPLICIT ELEMEN EXPOSED TO WEATHER #6 AND LARGER #14 AND # 18: SLABS 1-1/2" JOISTS, AND WALLS NOT EXPOSED TO #11 AND SMALLER WEATHER OR IN CONTACT SLABS JOISTS AND 3/4" WALLS ALL SIZE BARS: BEAMS COLUMNS, AND 1-1/2" TENSION TIES

REBAR CONCRETE COVERAGE DISTANCES

NOTES TO TABLE ABOVE:

1. SEE TABLE 20.5.1.3.1 ACI 318-19

2. ALL SLAB ON GRADE REINFORCEMENT SHALL BE CENTERED IN SLAB UNI ESS NOTED OTHERWISE

TRUSSES NOTES:

PRE-MANUFACTURED TRUSSES SHALL FOLLOW LAYOUT SHOWN ON PLANS, ANY CHANGES IN TRUSS LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

CONTRACTOR AND MANUFACTURER SHALL VERIFY CEILING HEIGHTS, TRAYS, VAULTS, AND STEPS PRIOR TO CONSTRUCTION.

MULTI PLY TRUSSES OR JOISTS SHALL BE FASTENED PER MANUFACTURER'S SPECIFICATIONS.

TRUSSES AND JOISTS SHALL BE BRACED PER MANUFACTURER.

. NO ALTERATIONS OF TRUSSES OR JOISTS ARE ALLOWED WITHOUT APPROVAL FROM MANUFACTURER.

SHEAR WALL SCHEDULE

MARK	SHEATHING	EDGE NAILING	EDGE STAPLING	EDGE MEMBER	FIELD NAILING	FIELD STAPLING	FIELD MEMBER	PLF
SW-6"	7/16" OSB, 1 SIDE	8d @ 6" O.C.	1-1/2" LONG 16 GAUGE @ 3" O.C.	(1) 2X	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	240
SW-4"	7/16" OSB, 1 SIDE	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	350
SW-3"	7/16" OSB, 1 SIDE	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	450
SW-2"	7/16" OSB, 1 SIDE	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	585
(2)SW-4"	7/16" OSB, BOTH SIDES	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	700
(2)SW-3"	7/16" OSB, BOTH SIDES	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	900
(2)SW-2"	7/16" OSB, BOTH SIDES	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1170

NOTES TO TABLE ABOVE:

1. GIRTS SHALL BE DF-L @ 24" O.C.

2. NAILS SHALL BE CARBON STEEL SMOOTH SHANK 8d COMMON OR 8d GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED

STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16" AND SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS

NAILS/STAPLES SHALL BE DRIVEN WITH THE HEAD/CROWN OF THE NAIL/STAPLE FLUSH WITH THE SURFACE OF THE SHEATHING DOUBLE SIDED SHEAR WALLS SHALL HAVE PANEL JOINTS OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. NAILS AT PANEL EDGES SHALL BE

BLOCK ALL PANEL EDGES. FLAT BLOCKING/GIRTS IS ACCEPTABLE ON SINGLE SIDED SHEAR WALLS

NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES.

SOURCE BUILDING Ш 2 ER Д DML ROP

ഗ

689-3630

(801)

BUILDING

4602 N. 3300 E. Liberty, UT 84310 OR NAY

Date: 12/14/2023

MARC

Scale: Drawn by: JDJ

Job: NAYLOR

Sheet Size: B

17" x 11"

Engineering Notes

CONCRETE FOOTINGS, FOUNDATIONS, AND SLABS

DESIGN CRITERIA:

SEISMIC IMPORTANCE FACTOR (I_E):

0.92

1.30

SITE CLASS:

WIND LOADS V (3 SEC GUST)

SNOW LOADS

1.2

48 PSF

48 PSF

4 PSF

10 PSF

20 PSF

60 PSF

BC 1806.1, 1806.2, & 1806.3.4)

SOIL LOADS AND VALUES (ASSUMED): SOIL BEARING PRESSURE: 1500 ACTIVE PRESSURE: 35 PC

LATERAL BEARING PRESSURE: 400 PSF/FT

FOOTINGS & FOUNDATIONS SECTION, THIS PAGE

NOMINAL

THICKNESS

19/32"

AND GROOVE

DEAD LOADS ROOF: 5 PSF

CONCRETE: 145 PSF

PASSIVE PRESSURE

AT-REST PRESSURE

LOCATION

ROOF W/ DESIGN

SNOW LOAD UP T 40 PSF

ROOF W/ DESIGN

SNOW LOAD UP TO 120 PSF

FLOOR

MECHANICALLY DEPOSITED.

SHALL BE STAGGERED.

SURFACE OF THE SHEATHING

MEET THE REQUIREMENTS OF USDOC PS 2.

FLOOR:

WALLS:

DECKS

LIVE LOADS

FLOOR:

DECK:

EXPOSURE CATEGORY

SNOW LOAD IMPORTANCE FACTOR (I_S): 0.8

D (ASSUMED)

105 MPH

5121 F

-6.5 (SHEAR WALLS) OR 1.5 (CANTILEVER SYSTEM)

(TRUSSES, PURLINS, METAL, OSB)

(JOISTS, OSB) (POSTS, GIRTS, METAL, OSB)

JOISTS, DECKING

35 PCF

SEE NOTES FOR SOIL ASSUMPTIONS AS FOUND IN THE CONCRETE

*ENGINEER ASSUMES STABLE SOIL CONDITIONS. IF THERE ARE ANY

GLOBAL STABILITY CONCERNS, A GEOTECHNICAL REPORT IS REQUIRED.

DIAPHRAGM/SHEATHING SCHEDULE

RATING

40/20

48/24

NOTES TO TABLE ABOVE:

1. ROOF AND FLOOR FRAMING MEMBERS SHALL BE PLACED NO FURTHER

NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL FLUSH WITH THE

STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND

NAILING W/ AN ADHESIVE CONFORMING TO APA SPECIFICATIONS

PERPENDICULAR TO FRAMING MEMBERS AND PANEL END JOINTS

SHALL BE INSTALLED PARALLEL TO FRAMING MEMBERS.

BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING

STRENGTH AXIS (LONG DIRECTION) OF PANELS SHALL BE ORIENTED

NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANELS

1-1/2" LONG 16 GAGE STAPLES W/ 7/16" CROWN MAY BE SUBSTITUTED FOR 8d NAILS AT HALF THE SPACING FOR 7/16" PANELS ONLY. CROWNS

PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND

CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION SHALL BE

24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED

FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS PRIOR TO

NAILS SHALL BE CARBON STEEL SMOOTH SHANK COMMON OR

GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR

EDGE

NAILING

3d @ 6" O.0

8d @ 6" O.C

10d @ 6" O.C.

FIELD

NAILING

d @ 12" O.C

8d @ 12" O.C

10d @ 12" O.C

250 PCF

NOTES:

1. CONCRETE SHALL MEET REQUIREMENTS OUTLINED IN THE BUILDING. CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI318-19)

2. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM ALI FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 IN WITHIN THE FIRST 10 FT DISTANCE FROM THE BUILDING

. IMPERVIOUS SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE SLOPE A MINIMUM OF 2% AWAY FROM THE BUILDING

CONTRACTOR SHALL DAMP PROOF ALL CONCRETE WALLS THAT RETAIN EARTH OR HAVE ENCLOSED USABLE SPACES BY PLACING A BITUMINOUS COATING ON BELOW GRADE EXTERIOR SECTIONS OF FOUNDATION WALL OR WITH ANOTHER APPROVED DAMP PROOFING METHOD AS OUTLINED IN R406 OF THE IRC

FOUNDATION DRAINAGE SYSTEM IS NOT REQUIRED IF BACKFILLED WITH WELL-DRAINING BACKFILL OR SAND-GRAVEL MIXTURE SOILS OF GROUP 1 SOILS OF THE UNIFIED SOILS CLASSIFICATION SYSTEM AS SHOWN IN TABLE R405.1 OF THE IRC.

ALL CONCRETE WALLS THAT RETAIN FARTH AND ANY FOLINDATION WALLS THAT ENCLOSE USABLE AREAS WITH GROUP II-GROUP IV SOILS OF THE LINIFIED SOILS CLASSIFICATIONS SYSTEM AS SHOWN TABLE R405.1 OF THE IRC SHALL HAVE A FOUNDATION DRAIN INSTALLED CONSISTING OF A PERFORATED DRAIN PIPE NOT LESS. THAN 1' BEYOND THE OUTSIDE EDGE OF THE FOOTINGS AND 6 ABOVE THE TOP OF FOOTING WITH A GRAVEL DRAIN WRAPPED IN AN APPROVED FILTER FABRIC.

ANY FOUNDATION WALLS THAT ENCLOSE USABLE SPACE WITH A HIGH

WATER TABLE OR OTHER SEVERE GROUND WATER CONDITIONS SHALL BE WATERPROOFED AS REQUIRED IN SECTION R406.2 OF THE

WPE ASSUMES STABLE SOIL CONDITIONS. CONTACT ENGINEER IF SOIL CONDITIONS DIFFER FROM THOSE ASSUMED, SEE DESIGN CRITERIA FOR ASSUMED VALUES. THESE VALUES SHALL BE REPLACED BY DATA INCLUDED IN A SITE SPECIFIC GEOTECHNICAL

REPORT IF AVAILABLE.
CRUSHED ROCK OR GRAVEL FILL WITH RELATIVELY LOW AMOUNTS OF FINES MAY BE USED TO BRING BOTTOM OF FOOTINGS OR SLABS UP TO GRADE WITH A MAXIMUM GRAVEL FILL DEPTH OF 2'. GRAVEL OR CRUSHED ROCK FILLS SHALL BE COMPACTED USING A VIBRATORY PLATE COMPACTOR.

10. ANY FILL SOILS OR GRAVEL FILL DEEPER THAN 2' THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER FILL SOILS SHALL BE INSTALLED, AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

11. WHERE QUANTIFIABLE DATA OR OBSERVATIONS INDICATE

EXPANSIVE, COMPRESSIBLE, SHIFTING, OR OTHER QUESTIONABLE SOIL CHARACTERISTICS OR GEOTECHNICAL HAZARDS ARE LIKELY TO BE PRESENT. THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SITE SPECIFIC GEOTECHNICAL STUDY TO DETERMINE SOIL CHARACTERISTICS OF THE SITE

2. FROST DEPTH OF FOOTINGS AND MINIMUM FREEBOARD OF FOUNDATION WALLS SHALL BE MET AS SPECIFIED ON SHEET \$1.0, NO FOOTINGS IN UNCONDITIONED SPACE SHALL BE CONSTRUCTED SHALLOWER THAN THE MINIMUM FROST DEPTH

CONCRETE SHALL BE BE MECHANICALLY VIBRATED WHEN PLACED TO AVOID HONEYCOMBING ALONG FORMS AND TO HELP CONCRETE FREELY FLOW AROUND REINFORCEMENT

CONCRETE SHALL NOT BE DROPPED MORE THAN 5' MAXIMUM DURING PLACEMENT. CONCRETE FOR FOUNDATION WALLS SHALL CURE A MINIMUM OF 7

DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKELL FOUNDATION WALLS 6' IN HEIGHT AND ABOVE DESIGNED FOR TOP SUPPORT, CONTRACTOR SHALL INSTALL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS. ALL FOUNDATIONS SHALL HAVE 6" MIN EXPOSED ABOVE GRADE

17. CONTRACTOR SHALL ROUGHEN COLD JOINT BETWEEN FOOTING AND WALL TO 4" AMPLITUDE.

18. ALL SLABS ON GRADE SHALL HAVE CONTROL JOINTS IN SLAB AT 15' O.C. MAXIMUM SPACING.

19. ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK

ON 4" PLATE COMPACTED GRAVEL OR OTHER APPROVED FREE DRAINING MATERIAL

20. REINFORCING STEEL IN CONCRETE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SECTION ENTITLED "REINFORCING STEEL". 1. ALL REINFORCEMENT IN CONCRETE SHALL BE PROPERTY TIED AND

SECURED PRIOR TO POURING CONCRETE IN SUCH A WAY THAT REINFORCEMENT REMAINS IN DESIGNED LOCATION VERTICAL REINFORCING STEEL FOR MASONRY CONSTRUCTION MAY BE FLOATED INTO PLACE.

22. ANY COMPONENTS THAT ARE CAST IN PLACE SHALL BE SECURELY PLACED IN THE FORMS (I.E. STRAPS, BOLTS, SLEEVES, ETC.)

23. REINFORCEMENT IN FOUNDATION WALLS SHALL BE CENTERED IN WALL U.N.O. REINFORCEMENT FOR CONCRETE WALLS RETAINING EARTH SHALL BE PLACED WHERE DESIGNED ON PLANS. ENGINEER ASSUMES 2,500 PSI COMPRESSIVE STRENGTH IN

STRUCTURAL CONCRETE. THEREFORE CONCRETE FOR FOOTINGS FOUNDATION WALLS, AND SLABS ON GRADE CAN BE EXEMPT FROM SPECIAL INSPECTIONS ACCORDING TO EXEMPTIONS LISTED IN SECTION 1705.3 IN THE IBC UNLESS NOTED OTHERWISE

WEATHER IF EXPOSED TO FREEZE/THAW DURING CONSTRUCTION. fc IS CONCRETE COMPRESSIVE STRENGTH AT 28-DAYS

PORTLAND CEMEMT TYPE I/II

TO ASTM C33

ASH OR OTHER NATURAL POZZOLANS CONFORMING TO ASTM C618 SEE SECTION R404.1.3.3.4 (IRC 2021) FOR SLUMP REQUIREMENTS. SLUMP OF CONCRETE SHALL BE ADEQUATE TO PROVIDE

REINFORCING STEEL:

RÉINFORCING STEEL SHALL NOT BE WELDED UNLESS SPECIFIED ON THE PLANS, REINFORCING STEEL THAT IS WELDED SHALL BE ASTM.

REINFORCING WELDED WIRE FABRIC SHALL CONFORM TO ASTM

ALL REINFORCING STEEL DIMENSIONS SHALL BE TO CENTER OF BAR UNLESS DIMENSION IS SPECIFIED AS "CLEAR" OR "CLR" IN WHICH CASE THE DIMENSION IS TO EDGE OF REBAR

SHALL MEET THE FOLLOWING REQUIREMENTS ON THIS SHEET AND THE REQUIREMENTS IN THE ACI 318.

\$1.0 AND THE UTAH AMENDMENT TO THE CODE 15A-3-108. ON CENTER (O.C.) SPACING SHOWN ON PLANS SHALL BE MAXIMUM

BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (d_b) TO MEET DEVELOPMENT LENGTH. DEVELOPMENT LENGTH ASSUMES UNEPOXIED REBAR AND NORMAL WEIGHT CONCRETE. CONTACT ENGINEER FOR OTHER CONDITIONS IF NEEDED.

FRAMING

AND STAMPED BY AN APPROVED AGENCY (LE APA WWPA ETC.)

BEAMS ON PLAN ARE SIZED AS A MINIMUM. LARGER SIZES AND

BEAMS CONSISTING OF (4) OR MORE PLYS SHALL BE FASTENED W/ (2) ROWS OF 1/2" DIA THRU BOLTS @ 12" O.C. 2" FROM TOP AND 2" FROM BOTTOM OF BEAM

HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER, A STANDARD CUT WASHER SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT

DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.

THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40%-70% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS

SPOT FOOTINGS U.N.O.

PRR 410 OR SHALL BE EVALUATED IN ACCORDANCE W/ ASTM D7672. WOOD CONSTRUCTION CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

ONAL JACKSON D **SAGERS** DON 13258211 OF

FOUNDATION WALLS AND FOOTINGS, NOT 5%-7%(1 3000 PSI .55 EXPOSED TO WEATHER SLABS (EXCLUDING 5%-7%(1) 3000 PSI .55 GARAGE SLABS) WALLS, EXPOSED TO 5%-7% .45 WEATHER SLABS EXPOSED TO WEATHER 3500 PSI 5%-7% 45 INCLUDING GARAGE AND SUSP SLABS) NOTES TO TABLE ABOVE: 1. AIR ENTRAINMENT ONLY REQUIRED IN CONCRETE NOT EXPOSED TO

CONCRETE SPECIFICATIONS

ΔIR

CONTENT

W/C RATIO

MIN COMRESSIVE

STRENGTH (fc)

STRUCTURAL

W/C RATIO BASED ON ALL CEMENTITIOUS AND SUPPLEMENTARY CEMENTITIOUS MATERIAL IN CONCRETE MIXTURE.

CONCRETE SHALL NOT INCLUDE CALCIUM CHLORIDE ADMIXTURE NOMINAL MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL CONFORM CONCRETE MIXTURE MAY HAVE A MAXIMUM OF 25% BY MASS OF FLY

WORKABILITY AROUND REINFORCEMENT.

PLACEMENT OF REINFORCING STEEL SHALL MEET REQUIREMENTS OF CHAPTER 25 OF ACI 318-19

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 (Fv = 60 KSI)

A806 GRADE 60

STANDARD A-185

EDGE DISTANCE, HOOK AND BEND RADII, AND REBAR LAP LENGTHS.

REINFORCING IN FOUNDATION WALLS AND AROUND OPENINGS SHALL MEET REQUIREMENTS OF THE FOUNDATION SCHEDULE SHOWN ON

SPACING ALLOWÁBLE

ALL LUMBER SHALL MEET PLANS SPECIFICATIONS AND BE GRADED

HIGHER GRADES MAY REPLACE MEMBERS ON PLAN.

LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS

THE CLEARANCE HOLE FOR THE THE SHANK SHALL HAVE THE SAME

POSTS AND WALLS SHALL BE CENTERED ON CONTINUOUS AND 0. ENGINEERED WOOD RIM BOARDS SHALL CONFORM TO ANSI/APA

(2

ALL WALLS SHALL FOLLOW SW-6" U.N.O.
STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2.

10. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. ALL EDGES OF ALL PANELS SHALL BE SUPPORTED BY AND EASTENED TO FRAMING MEMBERS OR BLOCKING