LIFT STATION GENERATOR ENCLOSURE

CITY OF WRANGELL WRANGELL, ALASKA

LIFT STATION GENERATOR ENCLOSURE

Wood St., Wrangell, AK 99929

City of Wrangell Wood St, Wrangell, AK 99929



WOLD ARCHITECT: AND ENGINEERS 332 Minnesota Street, Suite W2006 Saint Paul, MN 55101

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PSM CONSULTING ENGINEERS, INC 2200 SIXTH AVENUE, SUITE 601 SEATTLE, WA 98121 P: 206.622.4580 www.psm-engineers.com



CIVIL

MN

C300 SITE PLAN

ARCHITECTURAL

A5.201 WALL SECTIONS, TYPES AND DETAILS

A2.00b MAIN LEVEL DEMOLITION PLAN, FLOOR PLAN & ELEVATIONS

STRUCTURAL

S1.0 GENERAL NOTES AND SPECIAL INSTRUCTIONS S2.0 FOUNDATION PLAN AND ROOF FRAMING PLAN

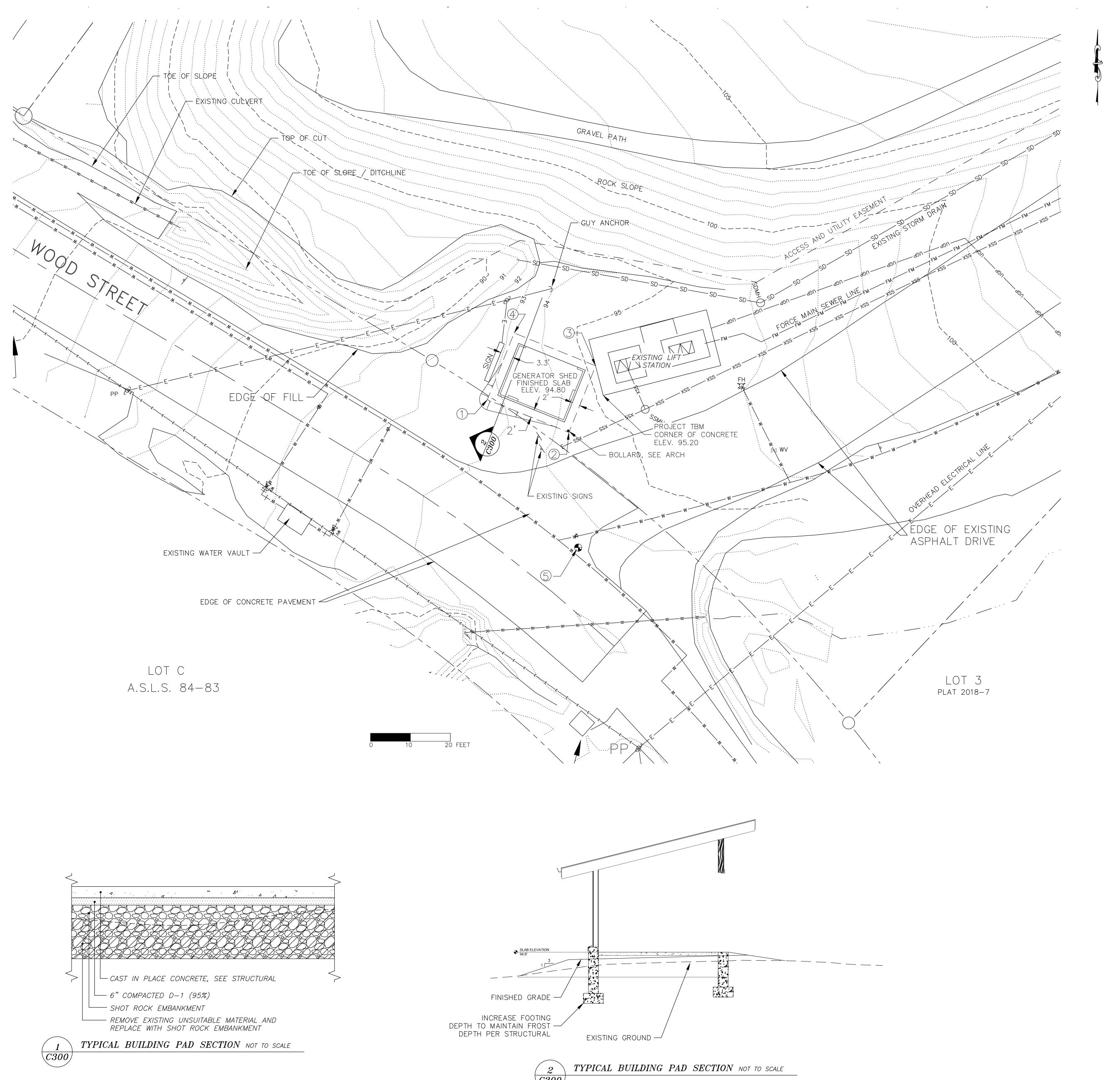
S3.0 TYPICAL DETAILS AND SECTIONS

ELECTRICAL

E0.00 ELECTRICAL TITLE SHEET

E8.00 ELECTRICAL SYMBOL AND ABBREVIATIONS

E8.01 ELECTRICAL DETAILS

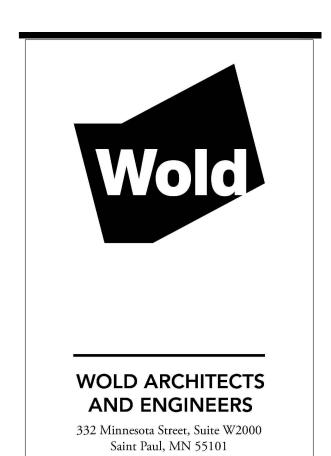


	Survey Control									
Point	Northing	Easting	Elev.	Description						
1	116628.71	44936.83	94.0	Pad Grade						
2	116620.51	44957.24	94.0	Pad Grade						
3	116637.21	44963.96	94.6	Pad Grade						
4	116645.42	44943.54	94.6	Pad Grade						
5	116591.64	44959.58	93.67	3.25 ALUM CAP						
6	116751.33	45182.67	111.11	SET SPIKE IN CONC						

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R&M ENGINEERING-KETCHIKAN, I Engineers geologists surveyo

7180 REVILLA ROAD #300 KETCHIKAN, AK 99901 907-225-7917

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

CIVIL ENGINEER

under the laws of the State of ALASKA

License Number: CE 9778 Date 1/24/2022

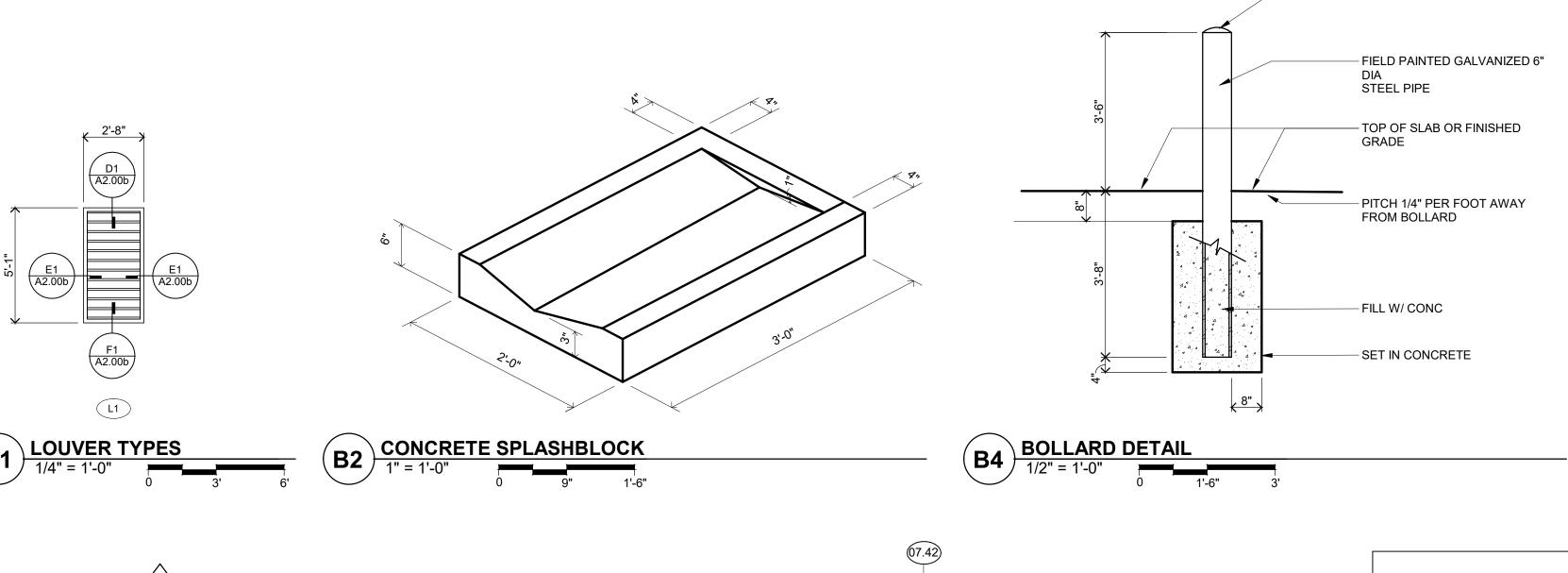
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Description	Date	Num

Comm:		
Date:	JAN 2022	
Drawn:	TSS	
Check:	TSS	North

SITE PLAN

_3UU

A



TOP OF HIGH WALL

TOP OF LOW WALL
108'-6"

, 3

TREATED SILL PLATE

- FLEXIBLE FLASHING

SILL SEALER

FLASHING AT BASE OF WALL

- 1/8" PREFINISHED ALUMINUM FLASHING

TIE INTO FLEXIBLE FLASHING

- SEALANT (BOTH SIDES)

POURED CONCRETE WALL

DUCTWORK TO SLEEVE

FLEXIBLE FLASHING

- FIBER CEMENT TRIM

OF SLEEVE

BIRD SCREEN

- SEALANT & BACKER ROD

FOIL FACED WEATHER BARRIER/

- PREFINISHED METAL DRIP EDGE

PREFINISHED ALUMINUM LOUVER

CONT 12 GA CAVITY SEALING SLEEVE AT JAMBS & SILLS BY MECH EXTEND 4" PAST INT WALL FACE - INSTALL BEFORE LOUVER. SEAL TO WOOD STUD W/ SEALANT. CONNECT

DUCTWORK TO SLEEVE

SEALANT & BACKER ROD

FLEXIBLE FLASHING FIBER CEMENT TRIM

OF SLEEVE

BIRD SCREEN

BIRD SCREEN

EACH SIDE

- FLEXIBLE FLASHING

MANUFACTURER

ALUMINUM LOUVER

- FOIL FACED WEATHER BARRIER/

PREFINISHED METAL DRIP EDGE

- PREFINISHED ALUMINUM LOUVER

- CONT ANCHOR BY LOUVER MFR

TOP. ANCHORED TO BRICK WITH

ALUMINUM FLASHING INSTALLED OVER FLEXIBLE FLASHING W/ SEALANT JOINT AT

COUNTERSUNK SST SCREW/ ANCHOR

SEALANT & BACKER ROD W/ WEEP HOLES,

1/8" ALUMINUM SILL FLASHING BY LOUVER

3/4" TREATED PLYWOOD SUB-SILL SET ON

- WEATHER BARRIER- WRAP WALL AND TIE INTO WINDOW FLEXIBLE FLASHING

- WA-01; SEE PLAN, SECTIONS AND ELEVATIONS

- CONT 12 GA CAVITY SEALING SLEEVE - SEE

CONT 1X2 TREATED WOOD BLOCKING

TREATED WOOD BLOCKING

- SEALANT BY MECH PRIOR TO INSTALLATION

CONCRETE WALL ON BOTH SIDES

- 3/4" TREATED PLYWOOD SUB-SILL SET ON

- WEATHER BARRIER- WRAP CONCRETE AND

FLEXIBLE FLASHING LAPPED OVER POURED

- CONCRETE SLAB ON GRADE; SEE SECTIONS

- CONT 12 GA CAVITY SEALING SLEEVE AT JAMBS & SILLS BY MECH EXTEND 4" PAST INT

WALL FACE - INSTALL BEFORE LOUVER. SEAL TO WOOD STUD W/ SEALANT. CONNECT

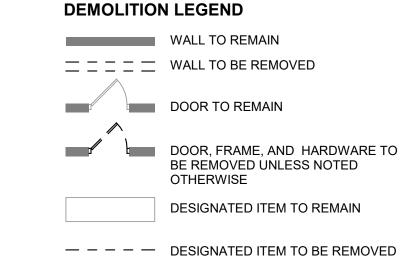
- SEALANT BY MECH PRIOR TO INSTALLATION

DEMOLITION GENERAL NOTES

- 1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION SEQUENCING NOTES. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
- REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTES. CONTRACTOR TO COORDINATE DEMOLITION WITH DETAILS AND STRUCTURAL DRAWINGS TO INSTALL
- NEW LINTELS OR STRUCTURAL COMPONENTS TO SUPPORT EXISTING STRUCTURE. PROVIDE AND COORDINATE ALL DEMOLITION AND RECONSTRUCTION WITH NEW WORK PLAN
- DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED, WHETHER INDICATED ON DRAWINGS OR NOT. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK
- WITH PLANS AND THE ROOM FINISH SCHEDULE. 7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
- DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.

DEMOLITION PLAN KEY NOTES:

- (1) PROTECT POWERED SIGN DURING CONSTRUCTION.
- (2) REMOVE ROCKS TO EXTENTS SHOWN, SALVAGE FOR
- REINSTALLATION. (3) EXISTING LIFT STATION TO REMAIN.



GENERATOR ENCLOSURE Wood St.,

LIFT STATION

Wrangell, AK 99929

City of Wrangell Wood St, Wrangell, AK 99929



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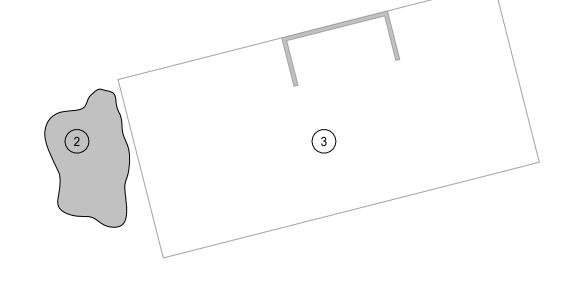
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GENERATOR DEMOLITION PLAN

- PLAN GENERAL NOTES 1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE
- WALL TYPES FOR ACTUAL THICKNESS. 2. ALL GYP. WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED. ALL CONCRETE BLOCK WALLS ARE TO BE 8 INCHES THICK UNLESS OTHERWISE NOTED.
- 4. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE. FIELD VERIFY ALL MILLWORK OPENINGS. SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE
- FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT. VERIFY LOCATION, SIZE AND QUANTITY OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT PADS.
- 8. ALL DOOR/SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED. 9. ALL GYP. WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED. 10. FIRE RATED WALLS ARE INDICATED ON CODE PLANS

GENERATOR /

CLAY

EXISTING LIFT STATION

FLOOR PLAN KEY NOTES:

- (1) SPLASH BLOCK SEE DETAIL B2/A2.00b. (2) BOLLARD - SEE DETAIL B4/A2.00b.
- (3) RELOCATED ROCKS.
- (4) EXISTING MONUMENT SIGN TO REMAIN. (5) EXISTING LIFT STATION TO REMAIN.
- 6 REMOVABLE GALVANIZED CHAIN LINK FENCE WITH 42" GATE.
- (7) GENERATOR; COORDINATE WITH ELECTRICAL

					ROOM I	FINISH SCH	DULE					
				N WAL	L - TYP	EW	'ALL	SW	/ALL	w w	/ALL	
)	ROOM NAME	FLOOR	BASE	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	REMARKS
							•					
	GENERATOR SHED	CONC	CONC	PLYWOOD	HERITAGE	PLYWOOD	HERITAGE	PLYWOOD	HERITAGE	PLYWOOD	HERITAGE	

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 ARCHITECT under the laws of the State of MINNESOTA Josh Ripplinge

46143

DEMOLITION PLAN, FLOOR PLAN & **ELEVATIONS**

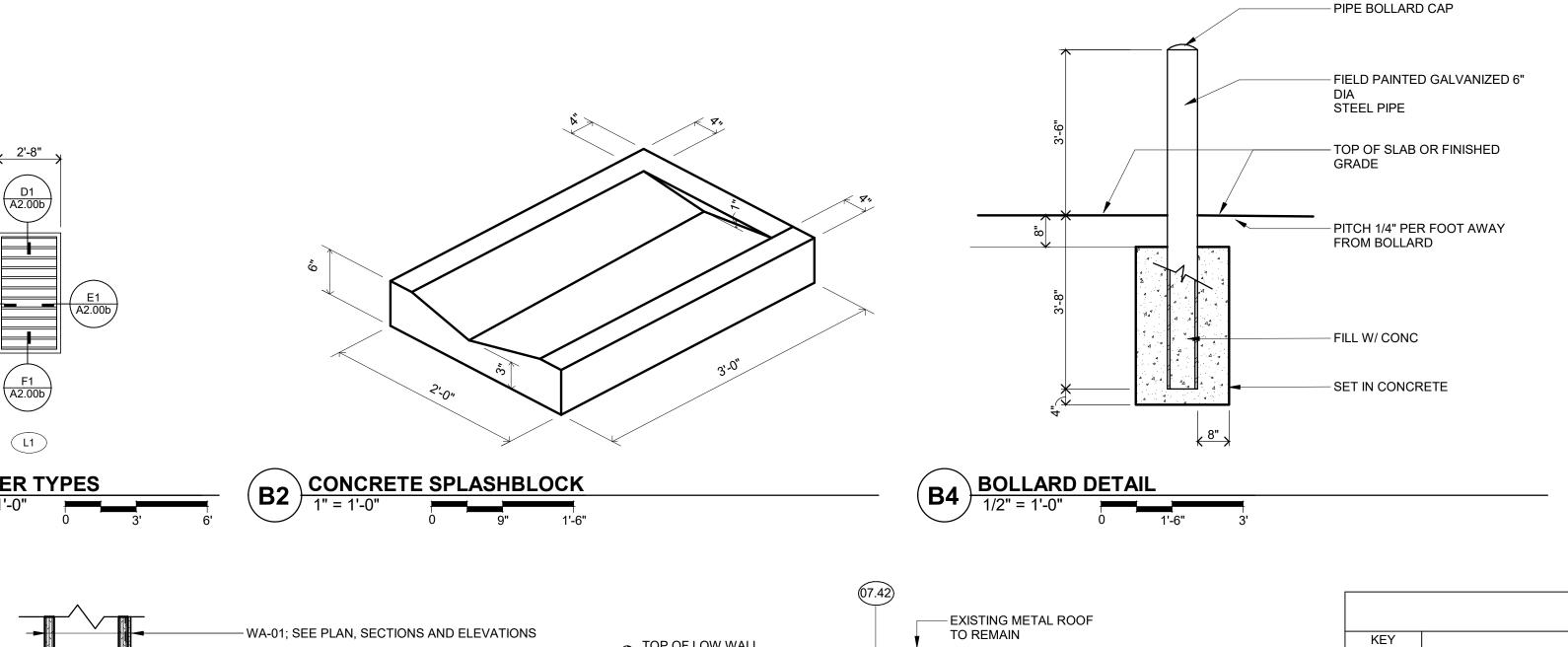


Date: 01/25/2022

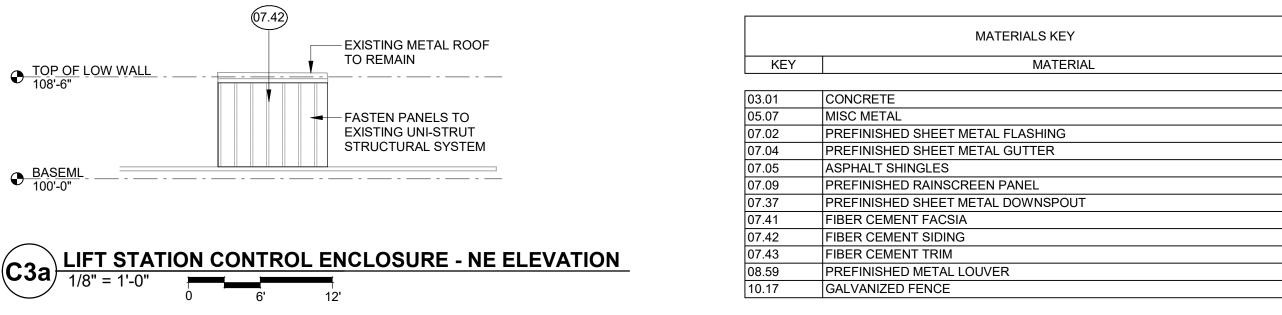
MAIN LEVEL

Scale: **As indicated**

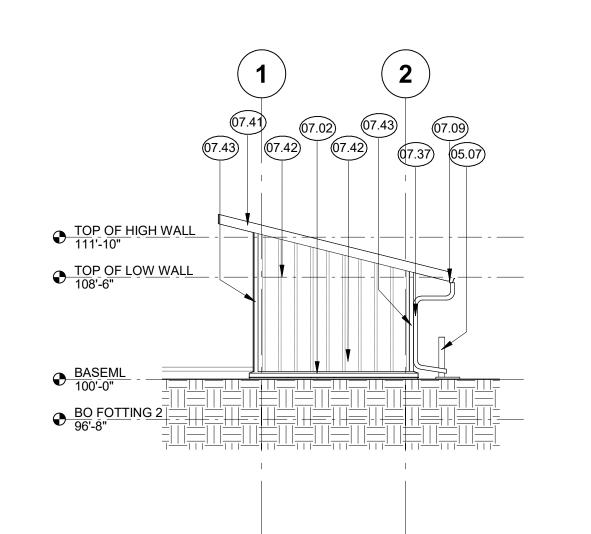
A2.00b

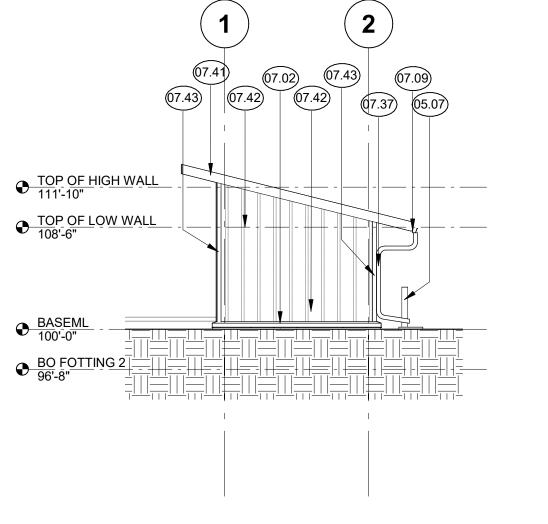


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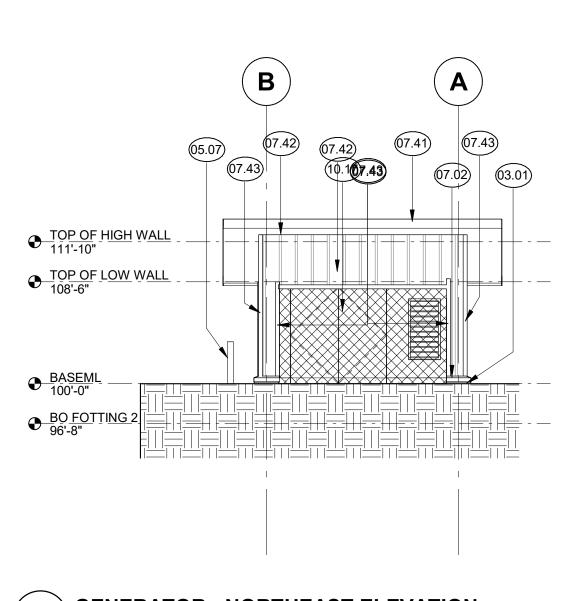


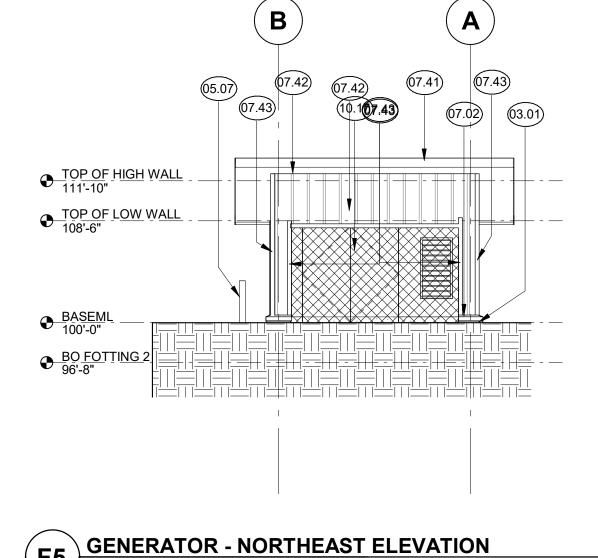


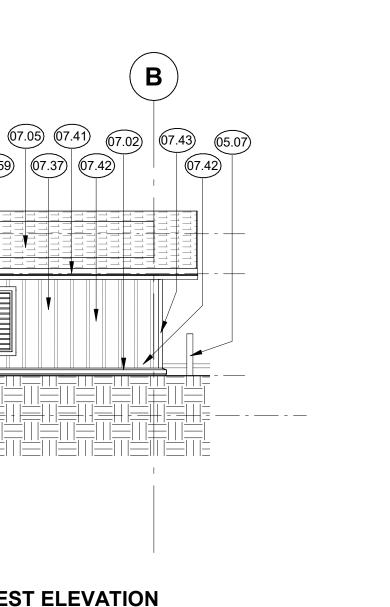


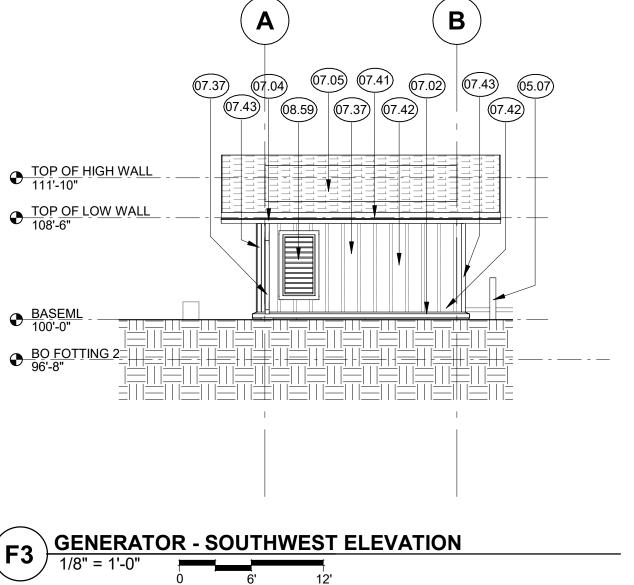


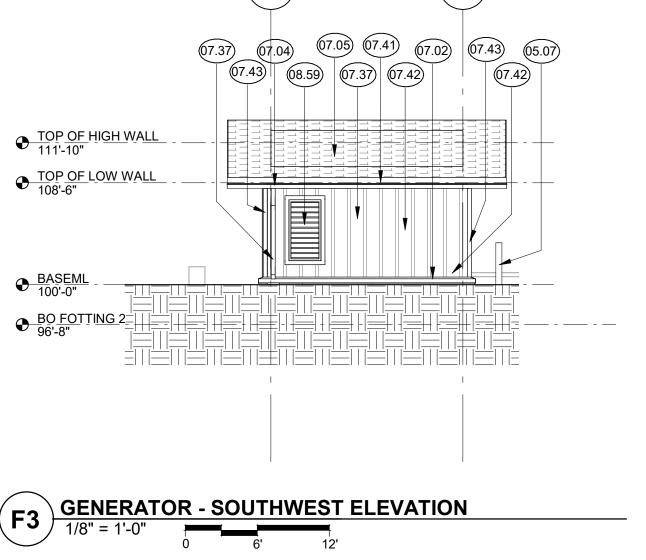
LIFT STATION CONTROL ENCLOSURE - SE ELEVATION

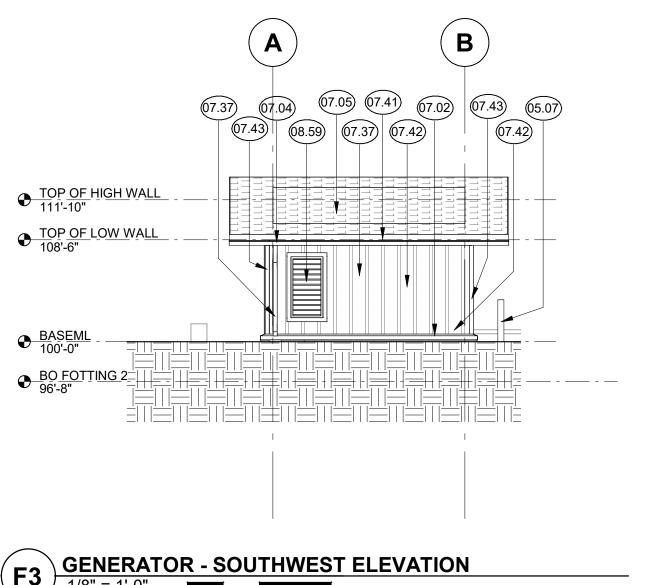




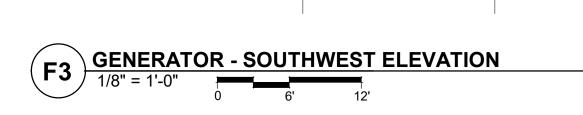


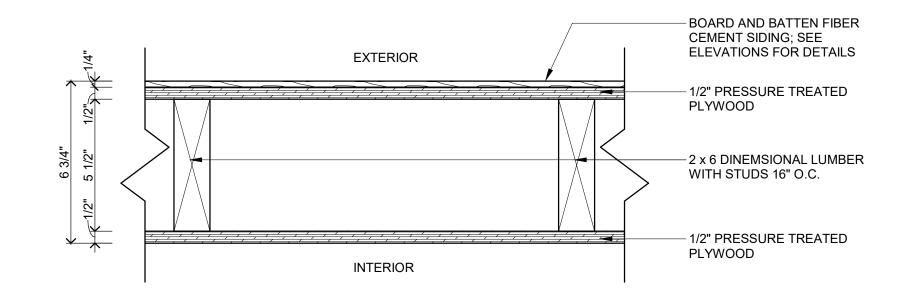




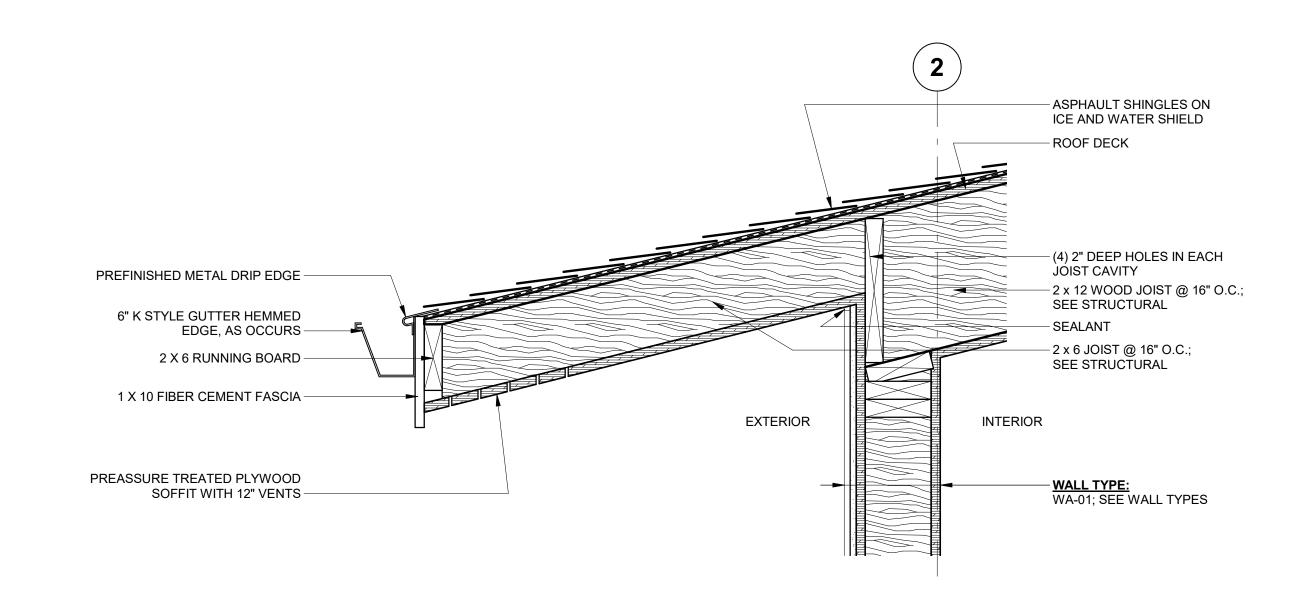


LIFT STATION CONTROL ENCLOSURE - NW ELEVATION





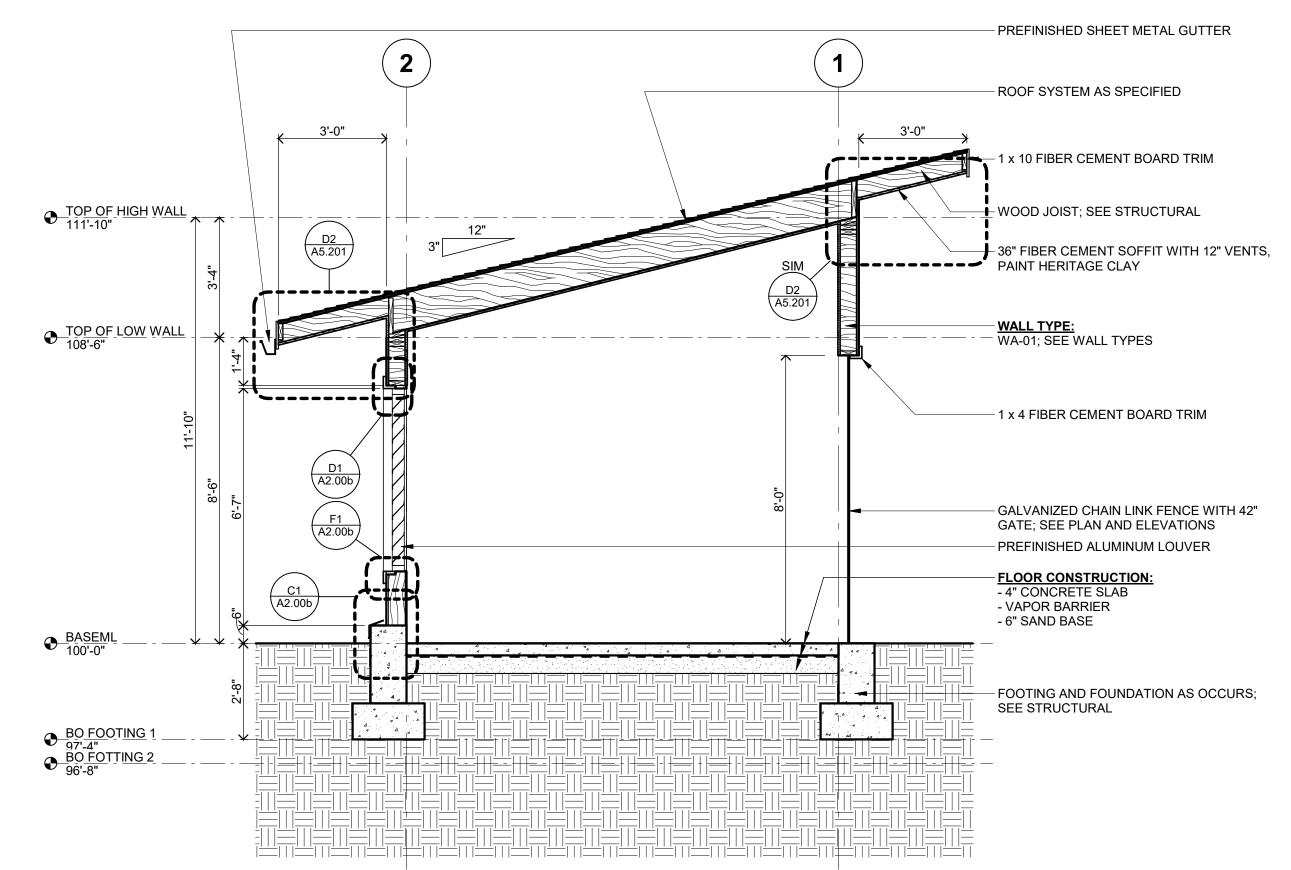
B2 WA-01 - PLAN DETAIL (FIBER CEMENT SIDING ON WOOD STUD)



ROOF SOFFIT DETAIL

MN

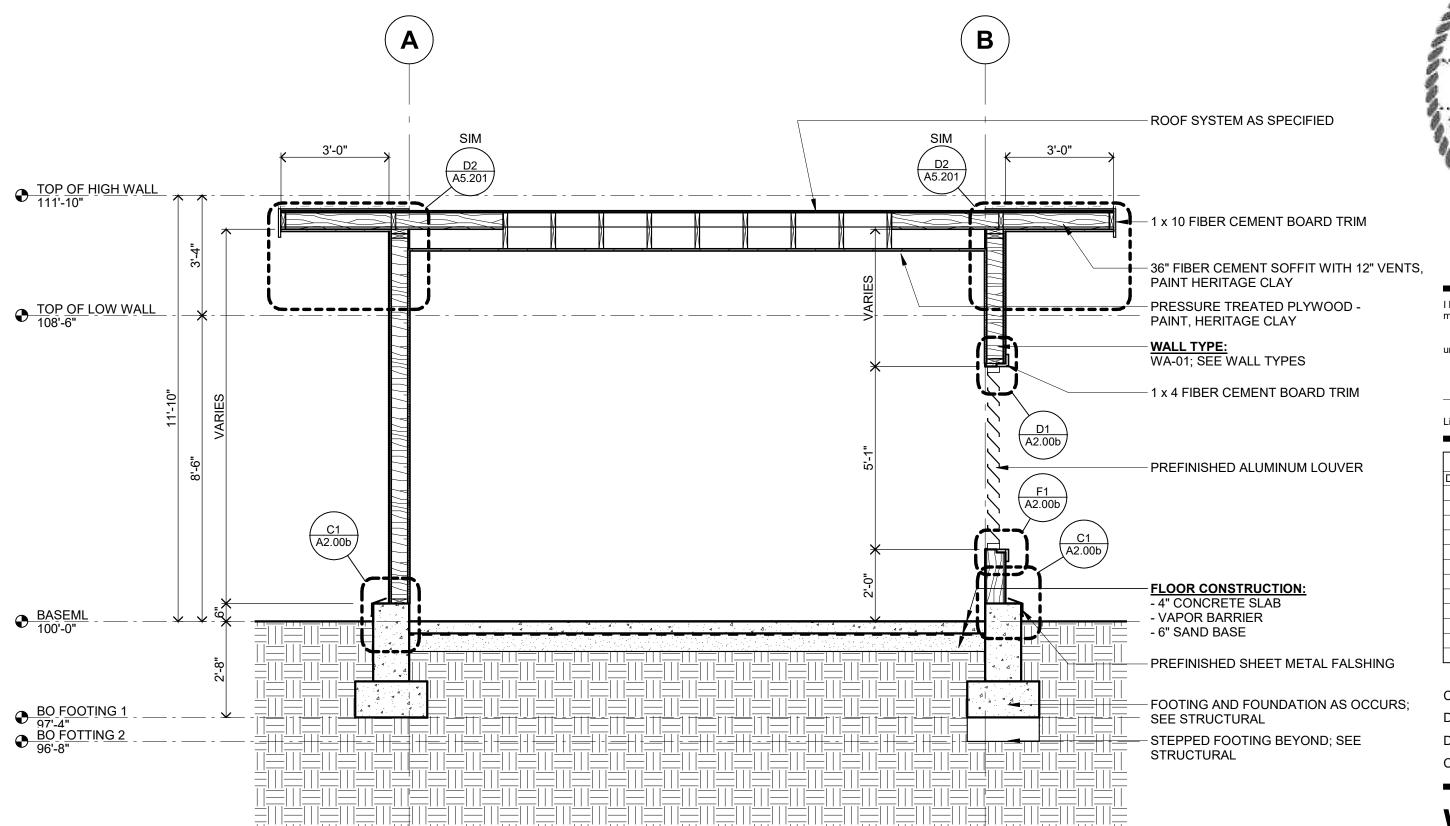
A



SECTION AT LOUVER AND CHAIN LINK FENCE

PREFINISHED SHEET METAL GUTTER ROOF SYSTEM AS SPECIFIED 3'-0" ₭ 3'-0" x 10 FIBER CEMENT BOARD TRIM TOP OF HIGH WALL - WOOD JOIST; SEE STRUCTURAL - 36" FIBER CEMENT SOFFIT WITH 12" VENTS, <u>,</u> PAINT HERITAGE CLAY — <u>WALL TYPE:</u> — WA-01; SEE WALL TYPES TOP OF LOW WALL
108'-6" `--------- 1 x 4 FIBER CEMENT BOARD TRIM — GALVANIZED CHAIN LINK FENCE WITH 42" GATE; SEE PLAN AND ELEVATIONS - VAPOR BARRIER - 6" SAND BASE - FOOTING AND FOUNDATION AS OCCURS; SEE STRUCTURAL

SECTION AT STEPPED FOOTING



SECTION AT LOUVER

3/8" = 1'-0"

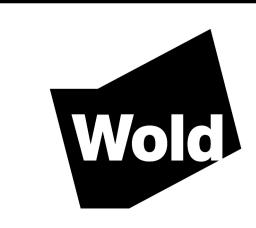
2'

4'

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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 ARCHITECT under the laws of the State of MINNESOTA

Josh Ripplinger
License Number: 46143 Date 06/30/2022

Revisions

Description

Date

Nur

Comm: 246054

Date: 01/25/2022

Drawn: MS

Check: SM | JR

WALL SECTIONS, TYPES AND DETAILS

Scale: As indicated

A E 204

GENERAL NOTES

THE FOLLOWING NOTES APPLY EXCEPT WHERE SHOWN OTHERWISE

CODE: INTERNATIONAL BUILDING CODE IBC (2018)

GROUND SNOW LOAD, Pg = 60PSF ROOF SNOW LOADS: ROOF SNOW LOAD, Pf = 60PSF SNOW EXPOSURE FACTOR, Ce = 0.8 SNOW LOAD IMPORTANCE FACTOR, Is = 1.0

WIND LOADS: ULTIMATE WIND SPEED, V3s/Vult = 139MPH RISK CATEGORY: II

> WIND EXPOSURE: 'C' $K_{7}t = 1.0$

THERMAL FACTOR, Ct = 1.2

INTERNAL PRESSURE COEFFICIENT = +/- 0.55 (PARTIALLY ENCLOSED BUILDING) DESIGN BASE SHEAR, V = 7 KIPS (SD)

SEISMIC RISK OCCUPANCY CATEGORY: II **EARTHQUAKE LOADS:** SEISMIC IMPORTANCE FACTOR, le = 1.0 MAPPED ACCELERATIONS, Ss = 0.249 S1 = 0.254 SITE CLASS = D

> DESIGN ACCELERATIONS, Sds = 0.265 Sd1 = 0.321 SEISMIC DESIGN CATEGORY: D BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD

STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

DESIGN BASE SHEAR, V = 0.5 KIPS (SD) SEISMIC RESPONSE COEFFICIENT, Cs = 0.041

RESPONSE MODIFICATION FACTOR, R = 6.5 ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED, AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. SUBMITTAL REVIEW IS FOR GENERAL CONFORMANCE ONLY; THIS REVIEW DOES NOT CHECK DIMENSIONS OR QUANTITIES.

MAXIMUM SOIL PRESSURE 2000 PSF. EXTERIOR FOOTINGS SHALL BEAR 2'-8" (MINIMUM) BELOW FINISH GRADE. FOOTING BASE PREPARATION REQUIRES OVER-EXCAVATION OF EXISTING GRADE BACKFILLED WITH ROCKS PER GEOTECH'S RECOMMENDATIONS. FOR ADDITIONAL INFORMATION REFER TO SOILS REPORT NO. 18271JN, BY PDC ENGINEERS, DATED SEPTEMBER 7, 2018.

ALL CAST-IN-PLACE CONCRETE SHALL BE WITH THE EXPOSURE CATEGORIES, WATER-CEMENT RATIOS, ENTRAINED AIR AND MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED IN THE CONCRETE SCHEDULE ON THIS SHEET.

ELEMENTS	EXPO	SURE (CATEGORY	AIR	f'c
FOUNDATION	F0	S0	C0		3000
FOUNDATION WALLS	F0	S0	C0		3000
FOUNDATION WALLS ABOVE GRADE	F1	S0	C1	5.5	3500
SLAB ON GRADE	F0	S0	C0		3000
SLAB ON GRADE EXPOSED TO WEATHER	F2	S0	C2	7	5000

CONCRETE MIX DESIGNS FOR ALL CONCRETE ELEMENTS SHALL COMPLY WITH SECTION 19.3 OF ACI318-14 BASED ON THE EXPOSURE CATEGORIES LISTED IN THE ABOVE TABLE. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

B. REINFORCING

ALL REINFORCING BARS SHALL BE NEW BILLET STEEL ASTM A615, GRADE 60 CONFIRMING TO ACI 318 SECTION 20.2.2.5. WELDABLE REINFORCING BARS SHALL CONFIRM TO ASTM A706. EPOXY COATED BARS, WHERE INDICATED ON PLAN, SHALL CONFORM TO ASTM A775 ALL WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A185.

EPOXY COATED WWR SHALL CONFORM TO ASTM A884, CLASS A. ALL HEADED SHEAR STUD REINFORCEMENT SHALL CONFORM TO ASTM A1044.

ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS. AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING, PLACEMENT AND SUPPORT DETAILS AND DOWELS AT EXPANSION JOINTS FOR REVIEW PRIOR TO FABRICATION.

ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITION OF ACI 318 AND THE SPLICE TABLE INCLUDED IN THE STRUCTURAL DOCUMENTS UNO. ALL WWR SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.

WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND SPACING OF MAIN REINFORCING, UNO.

ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6-W4.0 X W4.0 WWR AT TOP CONTINUOUS, UNO. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS FOR PADS. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.

IN NON-PRESTRESSED CAST-IN-PLACE CONCRETE. THE SPECIFIED CONCRETE COVER FOR REINFORCEMENT

SHALL NOT BE LESS THAN THE FOLLOWING, UNLESS LARGER COVER IS NOTED ELSEWHERE. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:

• CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS 2 IN. #5 BAR, W31, OR D31 WIRE AND SMALLER 1-1/2 IN. • CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: #14 AND #18 BARS 1-1/2 IN. #11 BAR AND SMALLER 3/4 IN. BEAMS, COLUMNS:

REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1-1/2 IN.

ALL STAINLESS STEEL REINFORCING SHALL BE AUSTENITIC TYPE 316 DEFORMED BARS CONFORMING TO THE STANDARDS OF ASTM A276 AND ASTM A955.

PROVIDE #4 HAIRPIN BARS WITH 12" LEGS AT 6" O.C. (MINIMUM) AT HEAD OF ALL OPENINGS WITH 2-#5 BARS EXTENDING 30" BEYOND OPENING AT HEAD. PROVIDE (2) #5 EXTRA BARS EXTENDING 30" (MINIMUM) BEYOND CORNERS AT TOP. BOTTOM. AND EACH SIDE OF OPENINGS. USE (2) #5 X 4' - 0" DIAGONALS AT EACH CORNER OF OPENINGS EXCEPT FOR 6" WALLS. USE (1) #5X4'0" DIAGONAL AT EACH CORNER IN 6" WALLS.

USE #4 RAISER BARS FOR ALL SLABS. WHERE SLAB STEEL IS PARALLEL TO A BEAM OR WALL PROVIDE #4 X 5' - 0" AT 12" O.C. IN TOP OF SLAB ACROSS BEAM OR WALL. WHERE SLAB IS ON ONE SIDE ONLY, TOP ELBOW BARS SHALL BE #4 X 3'- 0" AT 12" O.C. AT OPENINGS UNDER 18" SQUARE PROVIDE 2 BARS SAME SIZE AS MAIN STEEL EXTENDING 32 DIAMETERS PAST OPENING, AT EACH SIDE AND DIAGONALLY AT CORNERS.

CONSTRUCTION JOINTS IN ALL WALLS, ELEVATED SLABS AND BEAMS SHALL NOT BE FURTHER APART THAN 60 FEET IN ANY DIRECTION. ALL CONSTRUCTION JOINTS SHALL BE ROUGH TO A MAGNITUDE OF 3/4" AND SHALL BE WIRE BRUSHED,

CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

PLACE ALL SLABS-ON-GRADE IN STRIP POURS OF 30 FEET MAXIMUM WIDTH WITH A MINIMUM OF 24 HOURS BETWEEN ADJACENT POURS. STRIP POURED SLABS SHALL HAVE SAW CUT CONTROL JOINTS SPACED AT 36 TIMES THE SLAB THICKNESS (15'-0" MAXIMUM) ON CENTER. SAW CUTTING SHOULD BE PERFORMED BEFORE THE CONCRETE STARTS TO COOL AFTER PEAK HEAT OF CEMENT HYDRATION, AND AS SOON AS THE CONCRETE HAS HARDENED ENOUGH TO SUPPORT EQUIPMENT WITHOUT DAMAGE AND NOT RAVEL THE

ALLOW A MINIMUM OF 24 HOURS BETWEEN PLACEMENT OF CONCRETE FOR COLUMNS, WALLS OR PIERS AND PLACEMENT OF CONCRETE ON THE ADJACENT FLOOR.

PROVIDE SPECIFIED CURING COMPOUND AND SEALER FOR THE TOP SURFACE OF ALL SLAB WORK, UNLESS NOTED OTHERWISE. VERIFY COMPATIBILITY OF SPECIFIED SEALERS AND/OR HARDENERS WITH ARCHITECTURAL TOPPINGS AND FINISHES.

CONCRETE DURING CUTTING. SAW CUTTING SHALL BE DONE WITHIN 12 HOURS OF CONCRETE PLACEMENT.

ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 117, LATEST EDITION, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY". EXCEPT AS MODIFIED BY THESE DOCUMENTS.

SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES,

SLABS SHALL MEET THE FLOOR FLATNESS (FF) AND FLOOR LEVELNESS (FL) TOLERANCES INDICATED IN SPECIFICATIONS. FINISHED FLOOR SLABS THAT DO NOT MEET THE SPECIFIED SURFACE TOLERANCES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO SUBMIT PROPOSED REPAIR PROCEDURES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR EXECUTION OF REPAIR WORK.

F. CONDUITS AND PIPES EMBEDDED IN CONCRETE CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF SECTION 6.3 OF ACI 318 (LATEST EDITION) SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE, ONLY WITH PRIOR WRITTEN APPROVAL OF THE ARCHITECT/STRUCTURAL ENGINEER, THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED AND COORDINATED DRAWINGS OF PROPOSED

CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, WALL, OR BEAM SHALL NOT IMPAIR SIGNIFICANTLY THE STRENGTH OF THE CONSTRUCTION.

EMBEDDED CONDUIT, PIPES, AND SLEEVES TO THE ARCHITECT PRIOR TO CONSTRUCTION.

CONDUITS AND PIPES ARE NOT ALLOWED TO BE EMBEDDED WITHIN A COLUMN.

CONDUITS AND PIPES EMBEDDED WITHIN A SLAB, WALL, OR BEAM (OTHER THAN THOSE MERELY PASSING THROUGH) SHALL SATISFY THE FOLLOWING. THEY SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3RD THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED; THEY SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS

THEY SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION. PIPES AND FITTINGS SHALL BE DESIGNED TO RESIST EFFECTS OF THE MATERIAL, PRESSURE, AND TEMPERATURE TO WHICH THEY WILL BE SUBJECTED.

NO LIQUID, GAS, OR VAPOR, EXCEPT WATER NOT EXCEEDING 90 DEGREES FAHRENHEIT NOR 50 PSI PRESSURE, SHALL BE PLACED IN EMBEDDED PIPES UNTIL THE SURROUNDING CONCRETE HAS ATTAINED ITS

IN SOLID SLABS, PIPING, UNLESS IT IS FOR RADIANT HEATING OR SNOW MELTING, SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCEMENT.

CONCRETE COVER FOR PIPES, CONDUIT, AND THEIR FITTINGS SHALL NOT BE LESS THAN 1-1/2 INCH FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND NOT LESS THAN 3/4 INCH FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.

ADDITIONAL REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE GROSS AREA OF THE CONCRETE SECTION AT A SPACING NOT EXCEEDING 12 INCHES SHALL BE PROVIDED PERPENDICULAR TO THE

PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CONTROL JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC.

CONCRETE SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED, EXCEPT AS INDICATED ON THE STRUCTURAL DRAWINGS. ADDITIONAL SLEEVES OR BOX-OUTS MAY BE REQUIRED FOR ARCHITECTURAL, HVAC, ELECTRICAL, OR MECHANICAL ELEMENTS. A COORDINATED COMPOSITE DRAWING INDICATING ALL SLEEVES AND BOX-OUTS REQUIRED FOR THE WORK OF ALL DISCIPLINES SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. A COMPOSITE DRAWING SHALL BE SUBMITTED FOR EACH SLAB AND/OR WALL AND THE SIZE AND DIMENSIONED LOCATION OF ALL SLEEVES, BOX-OUTS, CORES, ETC. SHALL BE

CONCRETE BEAMS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED, EXCEPT AS INDICATED ON THE STRUCTURAL DRAWINGS.

MINIMUM SLAB-ON-GRADE THICKNESSES SHALL BE 5" FOR SIDEWALKS, 8" FOR AUTOMOBILE TRAFFIC AREAS, AND 10" FOR TRUCK TRAFFIC AREAS, UNO.

STRUCTURAL TIMBER AND LUMBER TO BE STRESS GRADE HEM-FIR OR DOUGLAS FIR AS FOLLOWS:

USE	SPECIES	GRADE	FB
4 X BEAMS/ POST	DOUGLAS FIR	NO. 2	900 PSI
6 X BEAMS/POST AND LARGER	DOUGLAS FIR	NO. 1	1350 PSI
EXTERIOR & BEARING WALL STUDS	DOUGLAS FIR	NO. 2	900 PSI
SHEAR WALL STUDS, PLATES AND BLOCKING	DOUGLAS FIR	NO. 2	900 PSI
ROOF JOISTS, FLOOR JOISTS	DOUGLAS FIR	NO. 2	900 PSI

WOOD AND WOOD BASED MATERIALS USED IN CONTACT WITH SOIL, CONCRETE OR MASONRY, INSTALLED WITHIN 1" OF CONCRETE OR MASONRY, OR EXPOSED TO MOISTURE EITHER INTERIOR OR EXTERIOR, SHALL BE TREATED WITH AN APPROVED PRESERVATIVE PER THE "PRESERVATIVE TREATMENT" SECTION BELOW. SOLID BLOCKING OF NOT LESS THAN 2" NOMINAL THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORTS OF JOISTS AND RAFTERS. BETWEEN SUPPORTS PROVIDE BLOCKING OR BRIDGING AT 8' - 0" O.C.

ALL SILL PLATES AT SHEAR WALLS TO BE 3X PRESERVATIVE TREATED DOUGLAS-FIR #2, U.N.O. ON THE PLANS. SILL PLATES SHALL HAVE A MOISTURE CONTENT OF NOT GREATER THAN 19% BEFORE BEING COVERED WITH INSULATION, INTERIOR WALL FINISH, FLOOR COVERING OR OTHER MATERIAL.

ALL STUD WALL SILL AND TOP PLATE MEMBERS SHALL BE SURFACE-DRIED (S-DRY) LUMBER (MOISTURE CONTENT = 19% OR LESS DURING FRAMING). ALL STUDS AND POSTS MAY BE SURFACE-GREEN (S-GREEN LUMBER (MOISTURE CONTENT = 19% TO 23% DURING FRAMING) OR S-DRY LUMBER. THE MOISTURE CONTENT OF THE FRAMING SHALL BE LESS THAN 12 % PRIOR TO INSTALLATION OF GYPSUM WALLBOARD

WHERE THE STRUCTURE IS LOCATED IN SDC A, B OR C CHANGE 3"X3"X1/4" PLATE WASHERS TO "STANDARD" WASHERS.

SILL BOLTS TO BE 3/4" DIAMETER EMBEDDED 7" INTO THE CONCRETE. MAXIMUM SPACING OF SILL BOLTS SHALL BE 48" O.C. AT DESIGNATED SHEARWALLS SILL BOLT SPACING SHALL BE PER THE PLANS. USE GALVANIZED 3" X 3" X 1/4" PLATE WASHERS, WITH HOLES NO GREATER THAN 3/16" LARGER THAN THE BOLT DIAMETER AT ALL SHEARWALL SILL BOLTS. PROVIDE A MINIMUM OF TWO BOLTS EACH PIECE. PROVIDE ONE BOLT AT EACH END OF EACH PIECE, NOT LESS THAN 6" AND NOT MORE THAN 12" FROM THE END.

BOLT HEADS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH MALLEABLE IRON WASHERS EXCEPT ON STEEL BEAM NAILERS USE CUT WASHERS. NAILERS TO STEEL BEAMS SHALL BE ATTACHED WITH 5/8" BOLTS AT 3' - 0" O.C. STAGGERED.

NAILS SHALL CONFORM TO REQUIREMENTS OF ASTM F 1667 AND HAVE A MINIMUM BENDING STRENGTH OF 90 KSI FOR SHANK DIAMETERS BETWEEN .142" AND .177". ALL WOOD-TO-WOOD NAILING SHALL BE PER IBC TABLE 2304.10.1 IF PLANS AND DETAILS SPECIFY 8D, 10D OR 16D NAILS, THEY SHALL HAVE THE FOLLOWING PROPERTIES:

8D = 0.131" DIA X 2-1/2" 10D = 0.148" DIA X 3" 16D = 0.162" DIA X 3-1/2"

ALL SUBSTITUTIONS SHALL HAVE THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD PRIOR TO USE. LIGHT GAUGE METAL FRAMING CONNECTORS AND THEIR REQUIRED FASTENERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, OR APPROVED EQUAL.

ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED STEEL WITH A G185 SPECIFICATION OR TYPE 304 & 316 STAINLESS STEEL. TYPE 304 AND 316 STAINLESS STEEL SHOULD BE USED FOR ALL CONNECTORS AND FASTENERS IN CONTACT WITH AZCA TREATED WOOD AND SOME VARIATIONS OF ACQ TREATED WOODS. HOT-DIPPED GALVANIZED STEEL SHOULD NEVER COME IN CONTACT WITH STAINLESS STEEL.

PLYWOOD/OSB ROOF, FLOOR AND WALL SHEATHING TO BE APA RATED C-D EXPOSURE 1 PER APA "PLYWOOD DESIGN SPECIFICATION" (Y510). MAXIMUM FASTENER SPACING SHALL BE 6" O.C. AT ALL SUPPORTED PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. FASTENERS INTO WOOD MEMBERS SHALL BE 10D NAILS PER THE "WOOD CONNECTORS" SECTION. FASTENERS INTO COLD-FORMED STEEL MEMBERS SHALL BE #10 SCREWS PER THE "COLD-FORMED STEEL CONNECTORS" SECTION.

STAGGER END LAPS AT ROOF AND FLOOR SHEATHING. ALL PANEL EDGES TO BE BLOCKED AT SHEAR WALLS. SUPPORT SHALL BE SUPPLIED TO ALL PLYWOOD EDGES WITH PLYCLIPS, BLOCKING, TONGUE AND GROOVE PLYWOOD JOINTS OR OTHER APPROVED METHODS PER APA RECOMMENDATION. PLYCLIPS ARE NOT ALLOWED FOR FLOOR SHEATHING.

ALL LUMBER, TIMBER, PLYWOOD, GLUE-LAMINATED AND OTHER COMPOSITE LUMBER THAT IS IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH CURRENT AMERICAN WOOD-PRESERVERS' ASSOCIATION (AWPA) PRESERVATIVE (P) STANDARDS. THESE MEMBERS SHALL BE TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH CURRENT AWPA COMMODITY (C) STANDARDS AND THE AWPA USE CATEGORY SYSTEM (UCS). WHEREVER POSSIBLE, PRECUT ALL MATERIAL BEFORE TREATMENT. HANDLE TREATED LUMBER IN

FIELD CUTS, HOLES (SUCH AS ANCHOR BOLT HOLES IN TREATED SILL PLATES) AND PENETRATION DAMAGE SHALL BE TREATED IN ACCORDANCE WITH THE CURRENT AWPA M4 STANDARDS. THE MOST COMMONLY AVAILABLE PRESERVATIVE MEETING THE REQUIREMENTS OF STANDARD M4 IS A COPPER NAPHTHENATE SOLUTION CONTAINING AT LEAST 2% COPPER. CERTAIN DAP, WM BARR, CUPRINOL, BEHR, GREEN'S, JASCO, HENRY AND FIELDS PRESERVATIVE PRODUCTS CONTAIN THIS METAL CONTENT.

ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR TYPE STAINLESS STEEL. SEE THE "WOOD CONNECTORS" SECTION.

STRUCTURAL GLUED-LAMINATED LUMBER:

ACCORDANCE WITH AWPA M4 STANDARDS.

SHALL BE FABRICATED TO THE REQUIREMENTS OF ANSI/AITC A190.1. LUMBER SHALL BE VISUALLY GRADED WESTERN SPECIES, COMBINATION 24F-V4 FOR SIMPLE BEAMS, 24F-V8 FOR CANTILEVER BEAMS AND COLUMNS. LAMINATED MEMBERS TO BE AITC CERTIFIED. ADHESIVES USED IN THE GLULAM MANUFACTURING PROCESS SHALL CONFORM TO AITC 405 FOR WET USE ADHESIVES.

MANUFACTURED STRUCTURAL WOOD MEMBERS: LVL SHOWN ON PLANS TO BE REDBUILT MICROLLAM™ OR APPROVED EQUAL. LVL MATERIAL SHALL BE OF WESTERN SPECIES, MODULUS OF ELASTICITY (E) SHALL BE 2,000 KSI MINIMUM, WITH CORRESPONDING BASE FB = 2,900 PSI AND FV = 285 PSI. LVL ASSEMBLY TO BE TESTED UNDER IBC TESTING PROCEDURES. LVL MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS FOR A NORMAL AND COMPLETE INSTALLATION OF THE MEMBERS. ALL LVL'S OTHER THAN REDBUILT SHALL HAVE ICC APPROVALS SUBMITTED TO THE ARCHITECT FOR REVIEW.

SCOPE OF STRUCTURAL ENGINEERING SERVICES:

HE STRUCTURAL ENGINEER HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. THE CONSTRUCTION MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ANY DEVIATION FROM THE DRAWINGS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. ERRORS AND/OR OMISSIONS FOUND ON THE STRUCTURAL DRAWINGS MUST BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IMMEDIATELY.

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS. ANY DISCREPANCIES, CONTRADICTIONS, OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK OR FABRICATION OF THE ITEM(S) IN QUESTION.

REQUIRED INSPECTIONS AND VERIFICATIONS FOR WOOD

PLYWOOD DIAPHRAGMS WHERE PANEL EDGES HAVE

MULTIPLE LINES OF FASTENERS: SPECIAL INSPECTOR

VERIFY WOOD PANEL THICKNESS AND GRADE, SIZE OF

NUMBER OF FASTENER LINES AND SPACING, AND EDGE

PLYWOOD DIAPHRAGMS WITH 4" AND CLOSER PANEL

EDGE NAILING: SPECIAL INSPECTOR VERIFY NAIL SIZE

AND SPACING, BOLTING, SHEAR WALL ANCHORING AND

HOLD-DOWNS, AND DRAG STRUTS OF LATERAL FORCE-

FRAMING MEMBERS, NAIL DIAMETER AND LENGTH,

PLYWOOD DIAPHRAGMS WITH 6" OC PANEL EDGE

DISTANCE

RESISTING SYSTEM

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE

CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION

CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL

ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN

MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND

DOCUMENTS.

PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL HE BE RESPONSIBLE FOR THE

FOR ANY COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-

STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE

TYPE	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		×		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		Х		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		Х		

SPECIAL INSPECTION SCHEDULE

TYPE	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING: a.VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		x	AWO D4 4	
o.INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X	AWS D1.4 ACI 318: 26.6.4	
c. INSPECT ALL OTHER WELDS		Х		
INSPECT ANCHORS CAST IN CONCRETE		Х	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (b)				
a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	х		ACI 318: 17.8.2.4	
o. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN (a)		Х	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED DESIGN MIX (fc > 2500 PSI)		х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 190
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PREFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	x		ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.1
NSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Х		ACI 318: 26.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING FEMPERATURE AND TECHNIQUES			ACI 318: 26.5.3-26.5.5	1908.9
NSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		x	ACI 318: 26.11.1.2(b)	
NON-STRUCTURAL SLABS ON GRADE	NOT REQUIRED	NOT REQUIRED		1705.3

PERIODIC

NOT REQUIRED

CONTINUOUS

NOT REQUIRED

LIFT STATION GENERATOR ENCLOSURE

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IBC REFERENCE

1705.5.1

1705.11.1, 1705.12.2

17.05.11.1

REFERENCE STANDARD

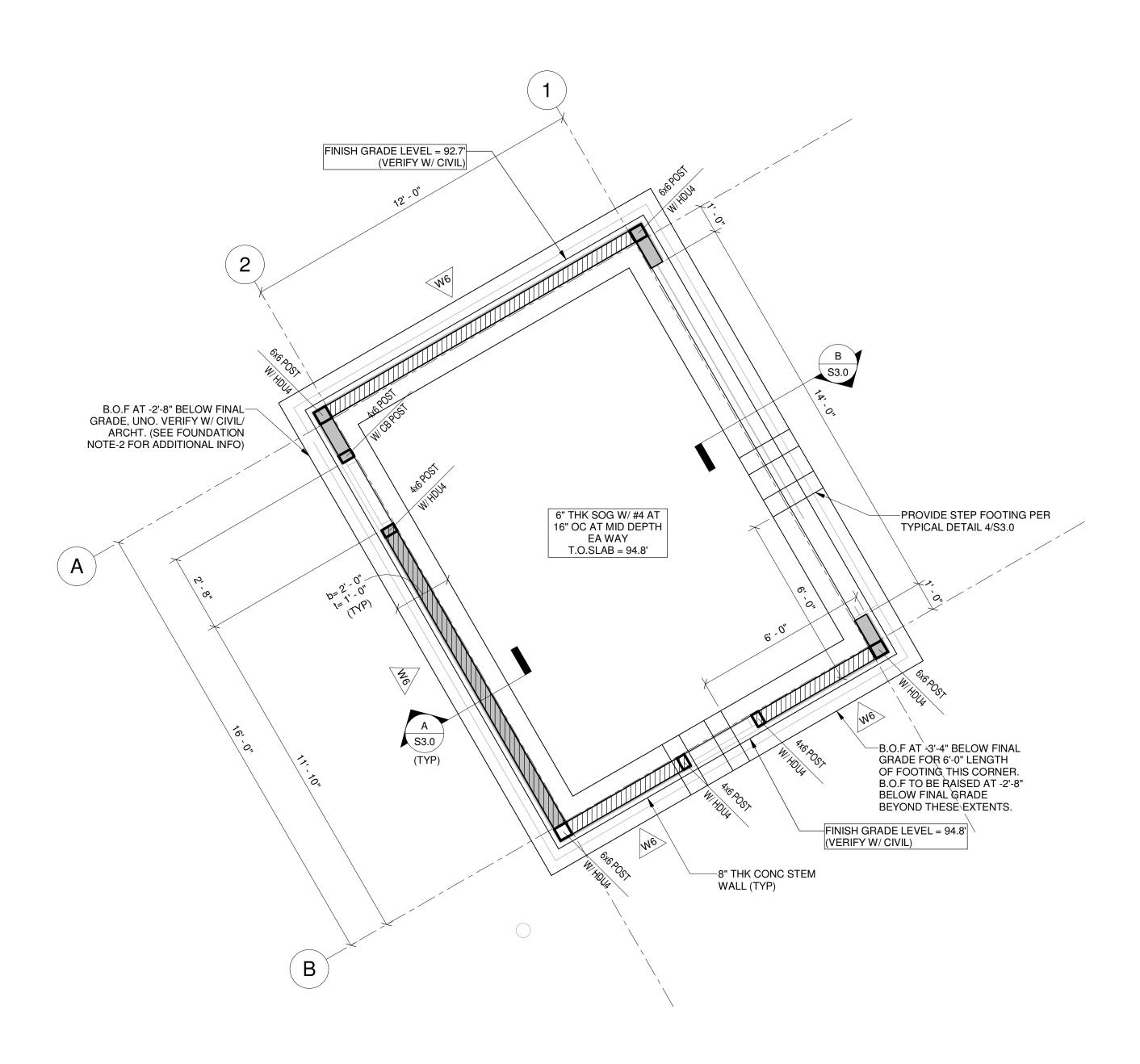


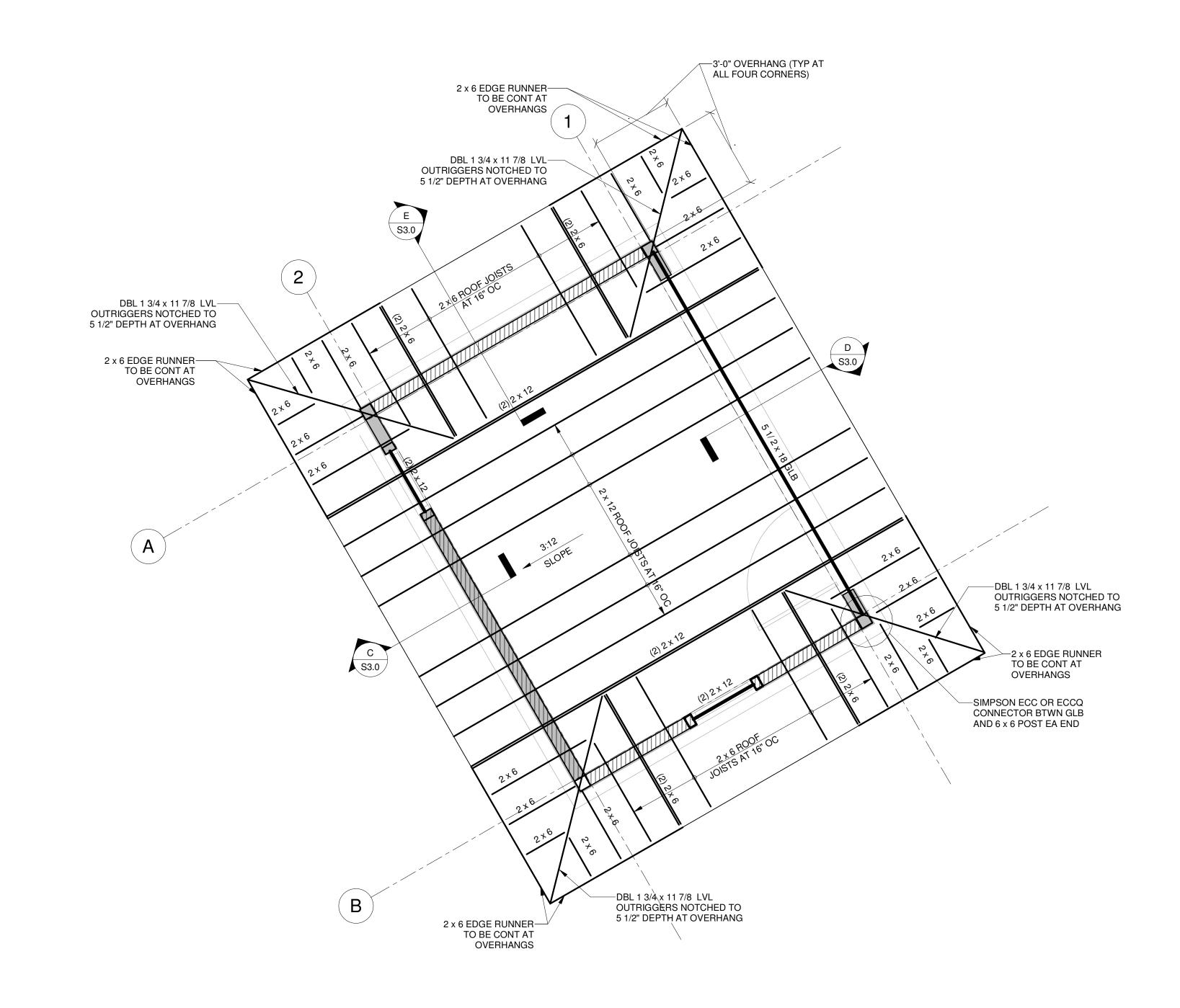
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed under the laws of the State of

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GENERAL NOTES AND SPECIAL INSPECTIONS

MN





1 FOUNDATION PLAN
3/8" = 1'-0"

FOUNDATION NOTES

- COORDINATE DIMENSIONS WITH ARCHITECTURAL PLANS. DIMENSIONS ARE CONTROLLED BY THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IN DIMENSION BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
- TOP OF FOOTING ELEVATION WILL VARY WITH FINAL GRADE ELEVATION. GC TO COORDINATE WITH CIVIL AND ARCHITECTURAL DRAWINGS TO VERIFY THAT THE BOTTOM OF ALL FOOTINGS ARE AT LEAST 2'-8" BELOW THE FINAL FINISHED GRADE. STEM WALLS AT CONTINUOUS FOUNDATION MAY BE REQUIRED TO ACCOMMODATE THE FINAL GRADE VARIATIONS. FOOTINGS TO BE LOWERED BELOW (E) UTILITY LINES. CO-ORDINATE W/
- SHADED WALLS DENOTE BEARING WALLS W/ 2x STUDS AT 16" OC. WALL TYPE TO BE PER SECTIONS AND AS PER ARCHT DRAWINGS
- INDICATES EXTENT OF SHEARWALL.
- WX DENOTES A SHEARWALL.
- 6. HD-XX DENOTES REQUIRED SIMPSON HOLDOWN AT ENDS OF SHEARWALL. SEE 2/S3.0 FOR TYPICAL DETAIL.
- ANCHORAGE OF EQIUPMENT OVER SLAB ON GRADE TO BE BY EQUIPMENT SUPPLIER. THICKER SLAB MAY BE REQUIRED TO MEET ANCHORAGE REQUIREMENTS. GC TO COORDINATE THE SAME WITH EQUIPMENT SUPPLIER.

2 ROOF FRAMING PLAN
3/8" = 1'-0"

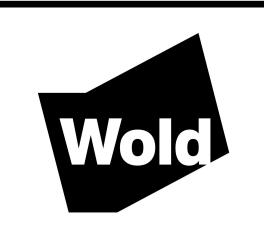
WOOD ROOF FRAMING NOTES

- COORDINATE DIMENSIONS WITH ARCHITECTURAL PLANS.
- COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATION AND SIZE OF ROOF AND WALL OPENINGS.
- ROOF DIAPHRAGM TO BE 5/8" CDX (P.I.=48/24) PLYWOOD APPLIED DIRECTLY OVER ROOF JOISTS, SEE S1.0 FOR NAILING. PLACE LONG DIRECTION OF PLYWOOD SHEETS PERPENDICULAR TO ROOF JOISTS
- SEE THE GENERAL NOTES AND SPECIAL INSPECTIONS ON SHEET S1.0 FOR ADDITIONAL INFORMATION.
- LAYOUT OF ALL EXTERIOR WALL OPENINGS TO BE CO-ORDINATED W/ ARCHT DWGS. REPORT TO ENGINEER OF RECORD IN CASE OF ANY DISCREPANCY.
- USE SIMPSON LSSR HANGERS FOR CONNECTING SLOPED AND SKEWED MEMBERS AT OVERHANG CORNERS.

LIFT STATION GENERATOR ENCLOSURE

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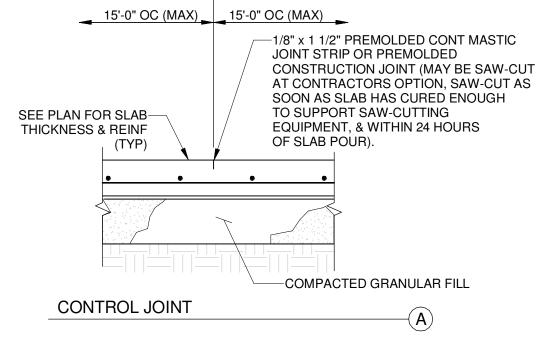
under the laws of the State of

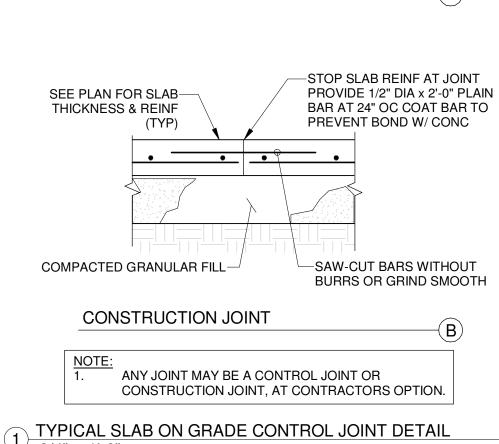
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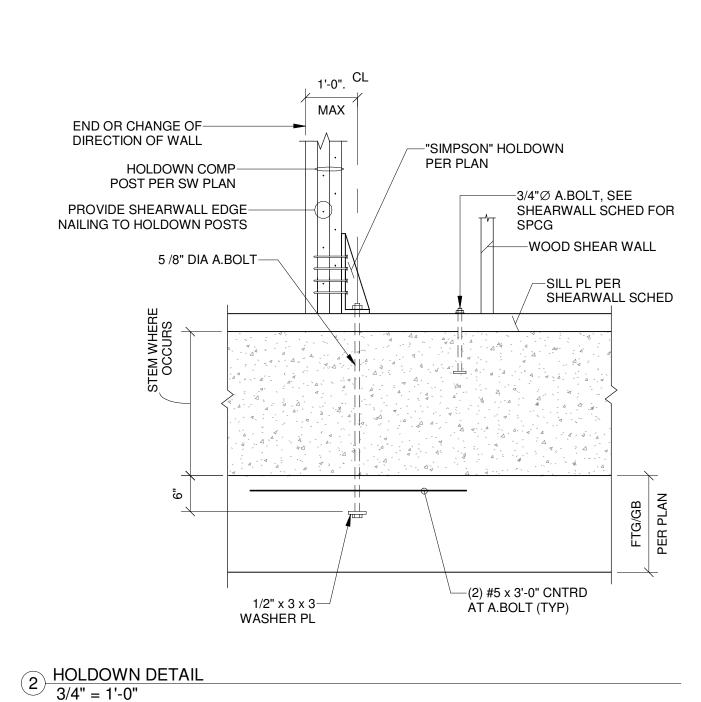
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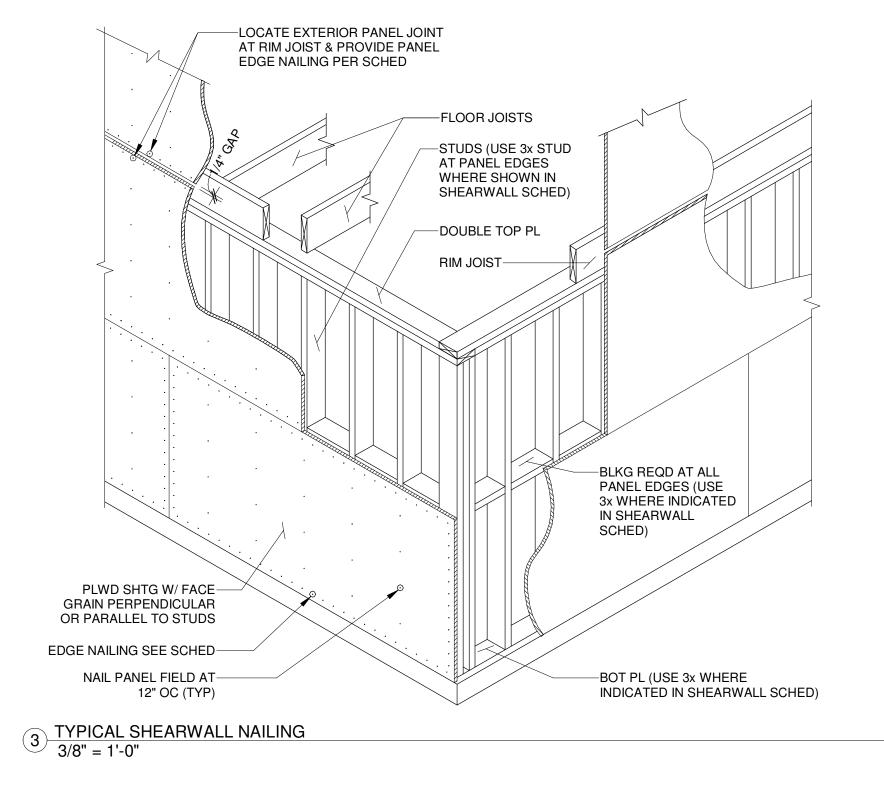


FOUNDATION PLAN AND ROOF FRAMING PLAN









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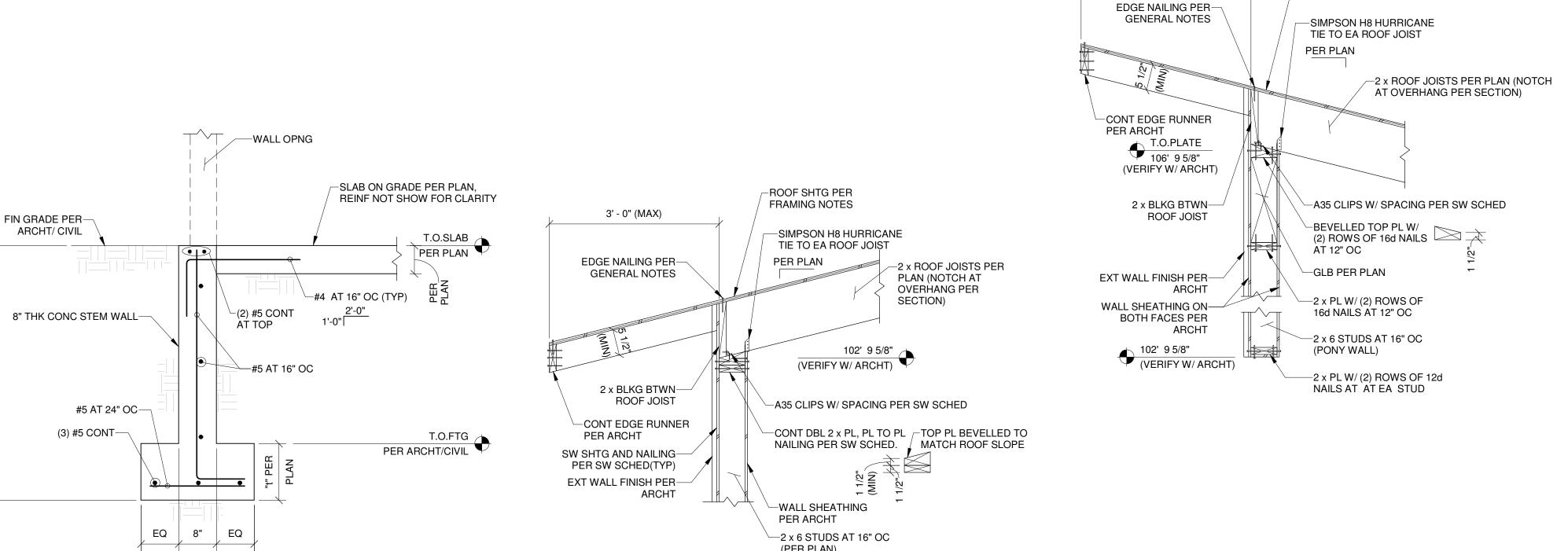
			SHEAF	RWALL SCHEDU	LE			
LABEL APA RATE SHEATHIN	APA RATED	NAIL SIZE & SPACING AT	STUD & BLKG SIZE	RIM JOIST OR BLOCK	BOTTOM PL ATTACHMENT	SILL PLATE ATTACHMENT		
	OHLATTING		AT ADJOINING	CONN TO		ANCHOR	SILL PLATE	
		25025		TOP PLATE	NAILING TO WOOD BELOW	BOLT TO CONC BELOW	SIZE AT DF #	
"W"=WOOD	(1) (2) (4) (12) (13)	(4) (5)	(3) (6) (14)	(7) (8)	(9)	(10) (15)	(11)	
W6	15/32" ONE SIDE	0.148" DIA x 3" AT 6" OC	2 x	A35 CLIP AT 16" OC	0.162" DIA x 3 1/2 " AT 6" OC	3/4" DIA AT 32" OC	3 x	

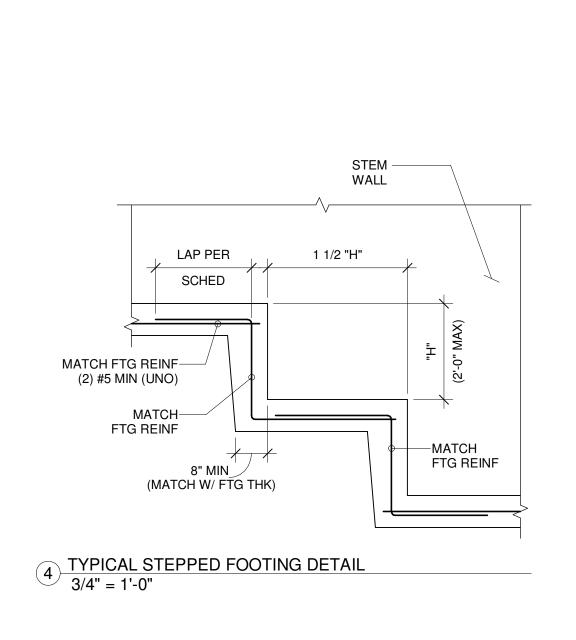
(ALL FASTENER SPACING ARE FOR USE W/ DOUGLAS FIR MATERIAL)

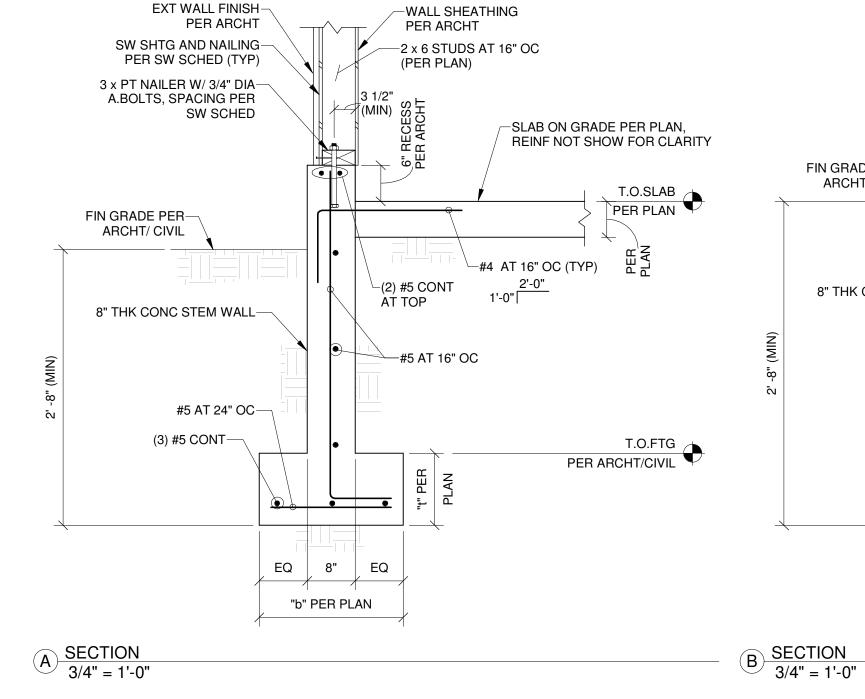
- INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY DIRECTLY ON STUDS. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES OF THE WALL ARE NOT LOCATED ON THE SAME STUDS. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY EXTERIOR OF THE BUILDING, CORRIDORS, WINDOWS OR DOORWAYS OR AS DESIGNATED ON PLANS. SEE PLANS FOR HOLDOWN REQUIREMENTS. (ALTERNATE NOTE: WALLS DESIGNATED AS PERFORATED SHEARWALLS REQUIRE SHEATHING ABOVE AND BELOW ALL OPENINGS). SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWNS POSTS. REFER TO THE HOLDOWN DETAILS FOR ADDITIONAL INFORMATION.
- INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING 12" OC (SEE 3/S3.0). BASED ON 0.131" DIA x 11/2" LONG NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131" DIA x 21/2" NAILS WHERE INSTALLED OVER SHEATHING.
- FRAMING CLIPS: AS NOTED IN TABLE OR APPROVED EQUIVALENT. PROVIDE AT 24" OC (MIN) AT NON-SHEARWALLS. WHERE PLATE ATTACHMENT SPECIFIES (2) ROWS OF NAILS, PROVIDE DOUBLE JOIST, RIM OR EQUAL. ATTACH PER DETAILS. ANCHOR BOLTS SHALL BE PROVIDED WITH STEEL PLATE WASHERS MIN 3" x 3" x 0.229". LOCATE PLATE WASHERS WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDES WITH SHEATHING. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE.
- PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED NAILS (ELECTRO-PLATING IS NOT ACCEPTABLE) AND CONNECTOR PLATES (FRAMING ANGLES, ETC) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS (SEE GENERAL NOTES FOR REQUIRED GALVANIZING THICKNESS). APA RATED ORIENTED STRAND-BOARD (OSB) SHEATHING OF THE SAME THICKNESS MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED THAT ALL
- STUDS ARE SPACED AT 16" OC OR CLOSER. WHERE WOOD SHEATHING (W) IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.
- AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF A SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING.
- ALL SILL PLATE ANCHOR BOLTS SHALL BE CAST-IN-PLACE EXCEPT WHERE NOTED OTHERWISE ON PLAN & DETAILS. ADHESIVE OR EXPANSION ANCHORS MAY NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. (SPECIAL INSPECTION WILL BE REQUIRED). 16. "W" = SHEARWALLS SHEATHED WITH APA RATED CDX OR OSB

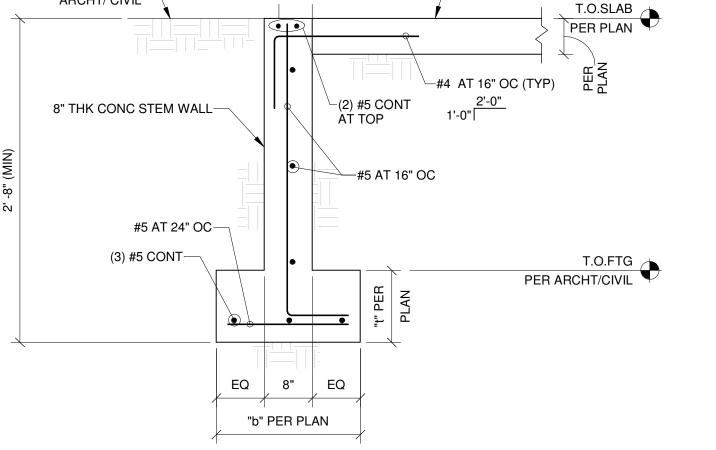
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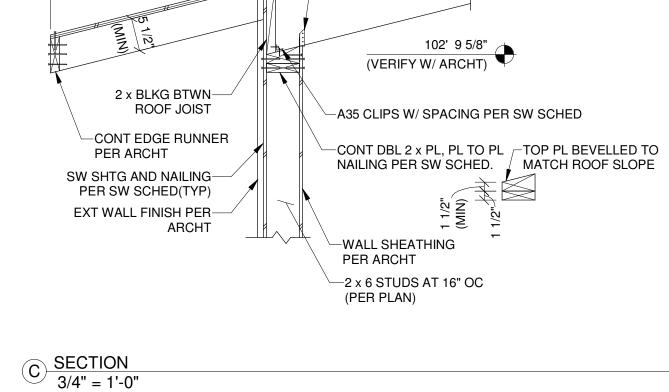
ROOF SHTG PER FRAMING NOTES

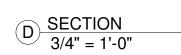












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me or under my direct supervision and that I am a duly Licensed

LIFT STATION

GENERATOR

ENCLOSURE

Wrangell Medical Center

232 Wood St., Wrangell, AK 99929

WOLD ARCHITECTS

AND ENGINEERS

332 Minnesota Street, Suite W2000

Saint Paul, MN 55101

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NG 4UE, 21

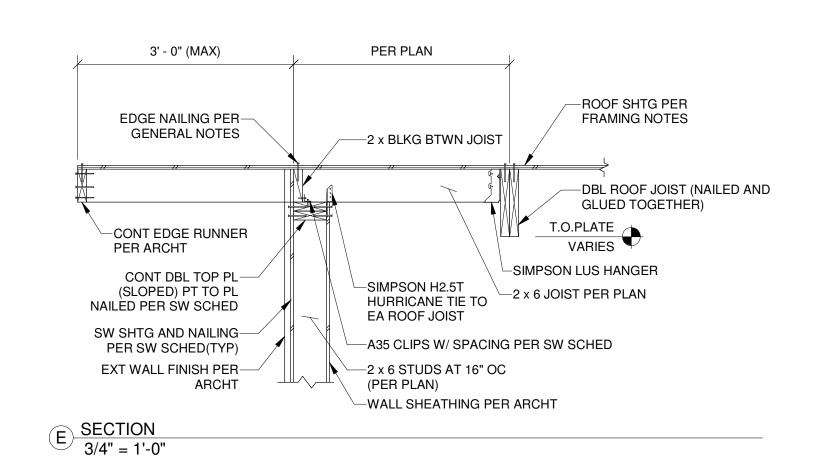
Wrangell, AK 99929

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TYPICAL DETAILS AND SECTIONS



DESCRIPTION

SYMBOL

SYMBOL

DESCRIPTION

	GENERAL ELECTRICAL SYMBOLS		LIGHTING			COMMUNICATION DEVICES			POWER AND MOTOR DEVICES	
	A. DEVICES SHALL BE MOUNTED AT THE HEIGHT INDICATED, UNLESS NOTED OTHERWISE. HEIGHTS ARE MEASURED TO FROM DEVICE CENTER TO FINISHED FLOOR. DEVICES		RECESSED LUMINAIRE (TYPE DENOTED)		DSHDSH WG	PAGING/INTERCOM SPEAKER HORN ASSEMBLY- P.A. OR AS INDICATED (3/4"C. BUSHED EMT TO ACCESSIBLE CEILING). WG = WIREGUARD	90"	##	RECEPTACLE NOTATION. ## INDICATES THE FOLLOWING: AB ABOVE COUNTER, BOTTOM OF BOX 4" ABOVE BACKSPLASH IG ISOLATED GROUND	
	MOUNTED IN BLOCK/BRICK WALLS SHALL CORRESPOND WITH BLOCK/BRICK COURSING. SEE MASONRY BACKBOX MOUNTING HEIGHT DETAIL.	0 0	SURFACE MOUNTED LUMINAIRE (TYPE DENOTED)		WG WG	LOUD SPEAKER HORN ASSEMBLY- PA OR SOUND SYSTEM AS INDICATED; VERIFY MOUNTING HEIGHT. (3/4"C. BUSHED EMT TO ACCESSIBLE CEILING). WG = WIREGUARD			GFI INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER GFI CB GROUND FAULT CIRCUIT INTERRUPTER IN CIRCUIT BREAKER TR TAMPER RESISTANT USB (2) USB PORTS INTEGRAL WITH RECEPTACLE	t
	B. ALL MOUNTING HEIGHTS INDICATED ARE FROM THE FINISH		LUMINAIRE ON EMERGENCY CIRCUIT, SWITCHED			SPEAKER WITH INTEGRAL VOLUME CONTROL AND BACKBOX (WALL OR CEILING); VERIFY MOUNTING HEIGHT. PA = SPEAKER FOR P.A. SYSTEM; AV = SPEAKER FOR LOCAL AV SYSTEM; Z# = ZONE NUMBER.		_	WP WEATHERPROOF	
	FLOOR TO THE CENTER OF THE BOX. C. ON DEMOLITION DRAWINGS, DASHED ELECTRICAL ITEMS		LUMINAIRE ON EMERGENCY CIRCUIT, UNSWITCHED		S S AV PA	(3/4"C. BUSHED EMT TO ACCESSIBLE CEILING). MOUNT 12" BELOW CEILING OR AS INDICATED ON PLANS.			SURFACE MOUNTED DUPLEX / QUAD RECEPTACLES AND DATA OUTLETS	
	DENOTES EXISTING ITEMS TO BE REMOVED; SOLID SCREENED ELECTRICAL ITEMS DENOTES EXISTING ITEMS TO REMAIN, UNLESS NOTED OTHERWISE		STRIP LIGHT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS, SEE		M → M	MICROPHONE OUTLET (WALL OR CEILLING). (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	18"	# #	RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTER	
	D. ON NEW WORK LIGHTING, POWER AND SYSTEMS DRAWINGS, SCREENED ELECTRICAL ITEMS DENOTES EXISTING ITEMS TO REMAIN; SOLID ELECTRICAL ITEMS DENOTES NEW ITEMS,	—————————————————————————————————————	DRAWINGS. WALL MOUNTED LUMINAIRE; SEE REFLECTED CEILING PLAN FOR MOUNTING HEIGHT.		(A)-H	AUXILIARY INPUT CONNECTOR. (1/2°C. BUSHED EMT TO ACCESSIBLE CEILING).	18"	<u> </u>	DUPLEX RECEPTACLE ON NORMAL CIRCUIT	18"
	UNLESS NOTED OTHERWISE		LINEAR PENDANT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS,		#	INTERCOM. M = MASTER STATION.	TOP AT		DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18"
	DEVICES TO BE DEMOLISHED:	•	SEE DRAWINGS.			(1/2"C. BUSHED EMT TO ACCESSIBLE CEILING). COMMUNICATIONS OUTLET FOR TV (WALL OR CEILING). (BUSHED			RECEPTACLE (SINGLE)	18"
	EXISING DEVICES TO REMAIN:	ф 	CIRCULAR PENDANT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS, SEE DRAWINGS.			EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). SEE DETAIL SHEETS.	18"			
	NEW DEVICES:	\rightarrow\rightarro	TRACK LIGHT LUMINAIRE (WITH HEADS OR PENDANTS); LENGTH AND MOUNTING AS NOTED ON DRAWINGS.		<u> </u>	VOLUME CONTROL. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING). CALL BACK SWITCH.	46"		DOUBLE DUPLEX RECEPTACLE (QUAD) ON NORMAL CIRCUIT	18"
		H ⊉ ↑⊕↑	EXIT LIGHT-FACE SHOWN SHADED; PLAN INDICATES CEILING OR WALL MOUNTING AND DIRECTIONAL ARROWS.		<u> </u>	(1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	46"	# *	DOUBLE DUPLEX RECEPTACLE (QUAD) ON EMERGENCY CIRCUIT	18"
#	KEYED NOTE.		EMERGENCY LIGHTING UNIT - TWO HEAD MOUNTING AS INDICATED ON DRAWINGS.		DCH DC	TV/VIDEO CAMERA, CLOSED CIRCUIT. (WALL OR CEILING MOUNTED, 3/4"C. BUSHED EMT TO ACCESSIBLE CEILING). MOUNT PER DRAWINGS. CAMERA BY OTHERS.		₽	SPECIAL PURPOSE OUTLET; RECESSED, MOUNT PER DWGS.	18"
#	FEEDER OR EQUIPMENT DRAWING NOTE.	─	POLE MOUNTED SITE LUMINAIRE - SINGLE SQUARE HEAD. NUMBER OF HEADS AS SHOWN.		©H ©H	CLOCK OUTLET. (3/4"C. BUSHED EMT TO ACCESSIBLE CEILING). D = DOUBLE FACED	90"	0 0	RECESSED CEILING MOUNTED SINGLE OR DUPLEX RECEPTACLE W/ADDITIONAL 10' FLEX MC/AC SLACK (COILED); FOR FUTURE DEVICE RELOCATION.	
E#	ELEVATION, SEE DETAIL # ON SHEET E#.		LIGHTING CONTROL		□ □ ■ ■	BELL/AUDIBLE DEVICE. (3/4"C. BUSHED EMT TO ACCESSIBLE CEILING).	90"	••••	USB ONLY DEVICE, (4) USB CHARGING PORTS	18"
					<i>></i> ##	WALL DATA AND COMMUNICATIONS OUTLET: (BUSHED EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). ## INDICATES TYPE OF OUTLET. SEE DETAIL SHEETS.	18"	① ①H	CEILING OR WALL MOUNTED JUNCTION BOX WITH REQUIRED COVERPLATE - PLAN INDICATES FUNCTION	CLG, 18"
	POWER DISTRIBUTION AND EQUIPMENT	##	SWITCHING NOTATION. ## INDICATES THE FOLLOWING: 3 THREE-WAY	46"	## WAP	CEILING DATA OUTLET AND WIRELESS ACCESS POINT: (BUSHED EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). ## INDICATES TYPE OF OUTLET. SEE DETAIL SHEETS.			MOTOR RATED SWITCH AND PILOT.	46"
	SWITCHBOARD WITH CONCRETE PAD: FLOOR MOUNTED.		4 FOUR-WAY D DIMMER K KEYED			FIRE ALARM DEVICES		₩S	MOTOR RATED SWITCH.	46"
	RELAY/CONNECTION CABINET;		LV LOW VOLTAGE MC MOMENTARY CONTACT OS INTEGRAL OCCUPANCY SENSOR					⊢ ⊬ MSS	MOTOR STARTER SWITCH WITH MOTOR RUNNING PROTECTION (ADD RELAY IF CONTROL CONTACTS ARE REQUIRED).	46"
	WALL MOUNTED, WITH TOP AT 72" AFF		PL LIGHTED PILOT LIGHT TD TIME DELAY		FAAP	FIRE ALARM ANNUNCIATOR PANEL;	TOP AT 60" AFF		DISCONNECT SWITCH - NON FUSED.	6'-0"
	PANELBOARD; WALL MOUNTED WITH TOP AT 72" AFF. AUTOMATIC TRANSFER SWITCH:		EACH SYMBOL DENOTES A SINGLE POLE LIGHT SWITCH WHEN MULITPLE SWITCHES ARE SHOWN, LOCATE ALL UNDER SINGLE MULTI-SWITCH COVERPLATE.		FACP	FIRE ALARM CONTROL PANEL (MASTER);	TOP AT 68" AFF		DISCONNECT SWITCH - FUSED.	6'-0"
ATS	WALL OR FLOOR MOUNTED.	HL L PC PC	PHOTOCELL - WALL, CEILING, OR ROOF MOUNTED; SEE DRAWINGS.		NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL. MOUNT TOP 62" AFF PLUS OR MINUS 2".	TOP AT 62 ± 2" AFF			
T	TRANSFORMER, WITH SIZE AS NOTED. SEE RISER DIAGRAM, SCHEDULE OR FLOOR PLANS; VERIFY.		OCCUPANCY SENSOR - WALL OR CEILING CELING MOUNT	46"	EH	FIRE ALARM MANUAL PULL STATION.	46"		MOTOR STARTER.	6'-0"
РВ	PULLBOX		OS# INDICATES TYPE PER OCCUPANCY SENSOR SCHEDULE EMERGENCY LIGHTING RELAY (UL 924) - SEE WIRING SCHEMATIC ON		DEH	FIRE ALARM HORN (AUDIBLE), WALL MOUNTED.	84"	<u> </u>	COMBINATION STARTER/DISCONNECT SWITCH.	6'-0"
НН	HANDHOLE		DETAIL SHEETS.		B	FIRE ALARM CHIME (WP FOR EXTERIOR MOUNTING). B = BELL.	84"	H● EPO	PUSHBUTTON - WALL MOUNTED. EPO = EMERGENCY POWER-OFF.	30" - 36"
MCC	MOTOR CONTROL CENTER (W/CONCRETE PAD); FLOOR MOUNTED.		SECURITY DEVICES		##FH##F	FIRE ALARM STROBE (VISUAL) DEVICE (WALL OR CEILING	84"	H● ADA	PUSHBUTTON DOOR ACTUATOR - WALL MOUNTED.	33" EXTERIOR 42" INTERIOR
	PLUG-IN BUS DUCT SWITCH; SIZE AS INDICATED AND SPECIFIED. VERIFY MOUNTING HEIGHT.	# 	SECURITY DEVICE. ## INDICATES THE FOLLOWING:			MOUNTED). FIRE ALARM HORN/STROBE (COMBINATION) (WALL OR CEILING		P	POWER POLE (DEVICES AS INDICATED)	
M	METER/SOCKET ASSEMBLY; MOUNT TOP AT 72" AFF	U	CM CONTROL MODULE DC DOOR CONTACTS (MONITORING) EL ELECTRIC LOCK/LATCH ES ELECTRIC STRIKE		#\F\ #F	MOUNTED). ## INDICATE THE FOLLOWING: WG WIRE GUARD WP WEATHER PROOF	84"	<u></u>	MOTOR, SEE MOTOR AND EQUIPMENT SCHEDULE	
			GB GLASS BREAK DETECTOR IR INFARED DETECTOR ML MAGNETIC LOCK		## - ## -	VE VOICE EVAC FIRE ALARM VOICE/STROBE (COMBINATION) (WALL OR CEILING		● PT#	POKE-THROUGH (PT) OR FLOOR BOX (FB), FULLY RECESSED IN FLOOR. REFER TO POKE-THROUGH AND FLOOR BOX SCHEDULE.	FLR
	BRANCH CIRCUIT, FEEDER, AND RACEWAY		XP EXIT PUSHBUTTON, MOUNT AT ADA HT XS EXIT SENSOR		## a FH ##F	MOUNTED). ## INDICATE THE FOLLOWING: WGWIRE GUARD	84"		WALL MOUNTED FURNITURE FEED.	18"
	INDICATES CONDUIT ROUTED BELOW, IN FLOOR STRUCTURE, BELOW GRADE, OR AS NOTED.		CARD READER ROUGH-IN AT ADA HEIGHT	46"		WP WEATHER PROOF			CORD REEL / CORD AND PLUG SET - CEILING MOUNTED. SEE PLANS FOR MORE INFORMATION.	
<u> </u>	GROUND				SH S FA FA	FIRE ALARM SPEAKER WITH BACKBOX (WALL OR CEILING); VERIFY MOUNTING HEIGHT. (3/4"C. BUSHED EMT TO ACCESSIBLE CEILING).	84", CLG			
	INDICATES CONDUIT IS SURFACE MOUNTED	DR SH	DOOR RELEASE; MOUNT PER DWGS.	46"	F⊳	FIREMAN PHONE JACK; MOUNT TOP 54" AFF PLUS OR MINUS 2".			NURSE CALL DEVICES	
		EE SH	ELECTRIC EYE; MOUNT PER DWGS.	46"	DFH	MAGNETIC DOOR HOLD-OPEN (WALL MOUNTED); MOUNT PER DWGS.		 N #	NURSE CALL SYSTEM DEVICE. 4" SQUARE BOX WITH 3/4"C. BUSHED EMT TO ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.	46"
	INDICATES CONDUIT ROUTED CONCEALED ABOVE FLOOR OR GRADE (IN CEILING OR WALL)	KP SH	KEYPAD; VERIFY MOUNTING HEIGHT WITH DWGS.	46"	FL F	SPRINKLER FLOW-SWITCH; MOUNT PER DWGS.			# INDICATES THE FOLLOWING: A = STAFF ASSIST REQUEST B = CODE BLUE	
	INDICATES CONDUIT UP	LA SH	LOCAL ALARM	46"	TS F	SPRINKLER TAMPER-SWITCH; MOUNT PER DWGS.			BED = BED INTERFACE (MOUNT 12" AFF, UNLESS NOTED OTHERWISE) D = DUTY STATION, 3-GANG BOX	
	INDICATES CONDUIT DOWN CONDUIT STUB - TERMINATION INDICATED BY NOTE	MC SH	MASTER CONTROL STATION		(F) _S	SMOKE DETECTOR-CEILING MOUNTED.			E = EMERGENCY (PULLCORD) E1 = EMERGENCY (PUSHBUTTON) L = DOME LIGHT, CENTERED ABOVE DOOR HEADER	
	CONDUIT CONTINUATION	MD MD ⟨S⊢ ⟨S	MOTION DETECTOR; ARROW INDICATES DIRECTION. (WALL OR CEILING MOUNTED).		(F) _{S-C0}	COMBINATION SMOKE & CARBON MONOXIDE DETECTOR - CEILING MOUNTED.			P = PATIENT - CODE BLUE, STAFF ASSIST, PULLCORD, 3-GANG BOX P1 = PATIENT - CODE BLUE, STAFF ASSIST, PILLOW SPEAKER,	
)	CONDUIT SLEEVE WITH BUSHINGS ON BOTH ENDS,	R PH	PHOTO-ELECTRIC RECEIVER; MOUNT PER DWGS.		(H) _{#°}	HEAT DETECTOR (RATE-OF-RISE); #° = FIXTED TEMPERATURE -			3-GANG BOX P2 = PATIENT - SPEAKER, CALL CORD R = RELAY, 4-GANG BOX	
SL#	SEE SCHEDULE FOR QUANTITIES AND SIZES OF SLEEVES	T PH	PHOTO-ELECTRIC TRANSMITTER; MOUNT PER DWGS.		#° #° SD(F)—	CEILING MOUNTED. DUCT SMOKE DETECTOR; MOUNT PER DWGS.			T = TV, MOUNT SAME HEIGHT AS ADJACENT RECEPTACLE M = MASTER STATION, 1-GANG BELOW COUNTER TOP M1 = MASTER STATION WALL-MOUNTED, 3-GANG BOX W = STATE WORKSTATION, 3-GANG BOX	
12"X4"	CABLE TRAY (WIDTH X DEPTH)	DSH DS	SECURITY CAMERA, CLOSED CIRCUIT. (WALL OR CEILING MOUNTED, 3/4"C. BUSHED EMT TO ACCESSIBLE			FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE; MOUNT PER			W = STAFF WORKSTATION, 3-GANG BOX DOME LIGHT, CEILING MOUNTED.	
1"C,3#4+1#3G	INDICATES 1" CONDUIT, (3) NO. 4 AWG CONDUCTORS AND (1) NO. 3 GROUND WIRE		CEILING). CAMERAS BY OTHERS. 360° SECURITY CAMERA, CLOSED CIRCUIT. (WALL OR CEILING MOUNTED, 3/4"C. BUSHED EMT TO ACCESSIBLE		Ė.	DWGS.		(N)	# INDICATES THE FOLLOWING: Z = ZONE LIGHT	
	SURFACE RACEWAY ASSEMBLY. PROVIDE AS SPECIFIED, UNLESS NOTED OTHERWISE.		CEILING). CAMERAS BY OTHERS.		CM F	FIRE ALARM CONTROL MODULE; MOUNT PER DWGS.		# [W]-	WANDERING PATIENT DEVICE; MOUNT PER DWGS. # INDICATES THE FOLLOWING: KP = KEYPAD NOTICE OF THE FOLLOWING:	42"
					F/S F	FIRE/SMOKE DAMPER; MOUNT PER DWGS.			RX = RECIEVER	
								W	WANDER ALERT SENSOR; MOUNT ABOVE CEILING.	
			ELECTRI	CAL A	BBREVIA	TIONS LIST				
< ANGLE @ AT	C CONDUIT CATV CABLE TELEVISION CB CIPCLIIT RREAKER		JUNCTION BOX N.C. NORMALLY CLOSED NEC NATIONAL ELECTRIC KILOVOLT NEMA NATIONAL ELECTRIC	CAL CODE	RCPT REQD	RECEPTACLE UE UNDERGROUND REQUIRED UG UNDERGROUND RELOCATED UH UNIT HEATER			ICE ABBREVIATIONS:	

ELECTRICAL SYMBOL SCHEDULE

SYMBOL

MOUNTING

HEIGHT

SYMBOL

DESCRIPTION

DESCRIPTION

MOUNTING HEIGHT

<	ANGLE	C CATA	CONDUIT	J-BOX	JUNCTION BOX	N.C.	NORMALLY CLOSED	RCPT	RECEPTACLE	UE	UNDERGROUND ELECTRICAL	DEVICE	ABBREVIATIONS:
@	AT	CATV	CABLE TELEVISION	10.7	KII OVOLT	NEC	NATIONAL ELECTRICAL CODE	REQD	REQUIRED	UG	UNDERGROUND	14/4011	OLOTUEO MAQUED
	FEET	CB	CIRCUIT BREAKER	KV	KILOVOLT	NEMA	NATIONAL ELECTRICAL	KL BOO	RELOCATED	UH	UNIT HEATER	WASH	CLOTHES WASHER
"	INCHES	CCTV	CLOSED CIRCUIT TELEVISION	KVA	KILOVOLT-AMPERE	NEDO	MANUFACTURER'S ASSOCIATION	RSC	RIGID STEEL CONDUIT	UNO	UNLESS NOTED OTHERWISE	DRY	CLOTHES DRYER
#	NUMBER	CKT	CIRCUIT	KVAR	KILOVOLT-AMPERE REACTIVE	NFDS	NON-FUSED SAFETY DISCONNECT	RTU	ROOF TOP UNIT	US	UNDERGROUND SYSTEMS	DISH	DISHWASHER
1P	1 POLE (2P, 3P, 4P, ETC.)	CLG	CEILING	KW	KILOWATT		SWITCH	00	OUREA OF COMPUTE	UT	UNDERGROUND TELEPHONE	DISP	UNDER SINK DISPOSER
		CMPR	COMPRESSOR	KWH	KILOWATT HOUR	NIC	NOT IN CONTRACT	SC	SURFACE CONDUIT	UV	UNIT VENTILATOR OR ULTRAVIOLET	EWC	ELECTRIC WATER COOLER
A	AMPERE	CONN	CONNECTION		LOCATE OR LOCATION	NL	NEW LOCATION	SEC	SECONDARY		VO. T	FLSH	SANITARY AUTOMATIC FLUSH
AC	AIR CONDITIONER	CONT	CONTINUATION OR CONTINUOUS	LOC	LOCATE OR LOCATION	N.O.	NORMALLY OPEN	SHT	SHEET	V	VOLT	FRZ	FREEZER
ACLG	ABOVE CEILING	CONTR	CONTRACTOR	LT	LIGHT	NPF	NORMAL POWER FACTOR	SIM	SIMILAR	VA	VOLT-AMPERES	GOGG	GOGGLES CABINET
ADA	AUTOMATIC DOOR ACTUATOR	CONV	CONVECTOR	LTG	LIGHTING	NTS	NOT TO SCALE	S/N	SOLID NEUTRAL	VERT	VERTICAL	HAND	HAND DRYER
AFF	ABOVE FINISHED FLOOR	CP	CIRCULATING PUMP	LTNG	LIGHTNING		0.477.47	SPKR	SPEAKER	VFD	VARIABLE FREQUENCY DRIVE	HOOD	EXHAUST HOOD
AFG	ABOVE FINISHED GRADE	CI	CURRENT TRANSFORMER	LV	LOW VOLTAGE	OH	OVERHEAD	SP	SPARE	VOL	VOLUME	MWV	MICROWAVE
AFI	ARC FAULT CIRCUIT INTERRUPTER	CTR	CENTER			OL	OVERLOADS	SR	SURFACE RACEWAY			REF	REFRIGERATOR
AHU	AIR HANDLING UNIT	CU	COPPER	MAG.S	MAGNETIC STARTER			SS	STAINLESS STEEL	W	WATT	RL 	RELOCATE
AL	ALUMINUM			M/C	MOMENTARY CONTACT	PA	PUBLIC ADDRESS	SSW	SELECTOR SWITCH	W/	WITH	NL	NEW LOCATION
ALT	ALTERNATE	DCP	DOMESTIC WATER CIRCULATING PUMP	MCB	MAIN CIRCUIT BREAKER	PB	PULL BOX	S/S	STOP/START PUSHBUTTONS	WG	WIRE GUARD	OVN	ELECTRIC OVEN
AMP	AMPLIFIER			MCC	MOTOR CONTROL CENTER	PE	PNEUMATIC ELECTRIC	STA	STATION	WH	WATER HEATER	VEND	VENDING MACHINE
ANNUN	ANNUNCIATOR	EX	EXISTING TO REMAIN	MDC	MAIN DISTRIBUTION CENTER	PED	PEDESTAL	STD	STANDARD	W/O	WITHOUT	PRNT	PRINTER
	AQUASTAT			MDP	MAIN DISTRIBUTION PANEL	PF	POWER FACTOR	SURF	SURFACE MOUNTED	WP	WEATHERPROOF		
ATS	AUTOMATIC TRANSFER SWITCH	FOL	FIBER OPTIC LINE	MFR	MANUFACTURER	PH	PHASE	SW	SWITCH				
AV	AUDIO VISUAL	FS	FUSIBLE SWITCH	MFS	MAIN FUSED DISCONNECT SWITCH	PNL	PANEL	SWBD	SWITCHBOARD	XFMR	TRANSFORMER		
AWG	AMERICAN WIRE GAUGE			MLO	MAIN LUGS ONLY	PP	POWER POLE	SYM	SYMMETRICAL	XFR	TRANSFER		
		HTR	HEATER	MMS	MANUAL MOTOR STARTER	PR	PAIR	TERM	TERMINAL				
BATT	BATTERY	HV	HIGH VOLTAGE	MOA	MULTIOUTLET ASSEMBLY	PRI	PRIMARY	TL	TWIST LOCK				
BD	BOARD	HWP	HYDRONIC WATER PUMP	MSP	MOTOR STARTER PANELBOARD	PROJ	PROJECTION	TR	TAMPER RESISTANT				
BLDG	BUILDING			MSBD	MAIN SWITCHBOARD	PRV	POWER ROOF VENTILATOR	T-STAT	THERMOSTAT				
BAS	BUILDING AUTOMATION SYSTEM	IC	INTERRUPTING CAPACITY	MT	MOUNT	PT	POTENTIAL TRANSFORMER	TTC	TELEPHONE TERMINAL CABINET				
		IG	ISOLATED GROUND	MT.C	EMPTY CONDUIT	PVC	POLYVINYL CHLORIDE	TVTC	TELEVISION TERMINAL CABINET				
		IMC	INTERMEDIATE METAL CONDUIT	MTS	MANUAL TRANSFER SWITCH		(CONDUIT)	TYP	TYPICAL				
		INCAND	INCANDESCENT	MTR	MOTOR, MOTORIZED	PWR	POWER						
		IR	INFRARED			_							
		I/W	INTERLOCK WITH			QUAN	QUANTITY						

GENERAL ELECTRICAL NOTES

A. INSTALL CONCEALED CONDUIT WITH FLUSH J.B.'S IN WALLS AND CEILINGS UNLESS NOTED OTHERWISE. IN FINISHED AREAS WITH INACCESSIBLE WALLS OR CEILINGS, PROVIDE SURFACE (WIREMOLD) RACEWAY; PAINT TO MATCH COLOR OF ADJACENT WALL OR CEILING.

MOUNTING

Version 08.13.18

HEIGHT

- B. RACEWAYS SHALL CONTAIN A GROUNDING CONDUCTOR.
 C. CIRCUITS SUPPLYING LINE TO NEUTRAL LOADS SHALL HAVE DEDICATED NEUTRALS, i.e. ONE NEUTRAL PER PHASE. NEUTRAL CONDUCTORS SHALL HAVE TRACER STRIPE ALONG ENTIRE LENGTH INDICATING ASSOCIATED
- D. BUILDING CONDUCTORS SHALL BE THWN/THHN. CONDUCTORS IN UNDERGROUND CONDUIT OUTSIDE OF BUILDINGS SHALL BE XHHW.
- E. NUMBERS AT RECEPTACLES AND LIGHT FIXTURES CORRESPOND DIRECTLY WITH PANELBOARD CIRCUIT NUMBERS AS SCHEDULED. BRANCH CIRCUIT WIRING AND HOMERUNS ARE NOT SHOWN FOR CLARITY. ACCURATE RECORD DRAWING INFORMATION IS TO BE PROVIDED AT THE PROJECT COMPLETION. TYPICAL THROUGHOUT. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION
- REQUIREMENTS.
 REFER TO CONTRACT DOCUMENTS FOR SEQUENCE OF CONSTRUCTION
 AND PHASING OF THE CONTRACT.
- SWITCHES SHALL BE MOUNTED PER ADA REQUIREMENTS, 46" AFF. UNLESS OTHERWISE NOTED, RECEPTACLES AND TELECOMMUNICATION OUTLETS IN FINISHED AREAS SHALL BE MOUNTED 18" AFF. RECEPTACLES IN UN-FINISHED SPACES SHALL BE MOUNTED AT 46" OR 4" ABOVE WORK SURFACE. COORDINATE RECEPTACLE MOUNTING HEIGHTS WITH MILLWORK LOCATIONS, ARCHITECTURAL ELEVATIONS, AND MASONRY COURSING.
- CRITICAL DEVICES / EQUIPMENT, INCLUDING TELEPHONE, COMPUTER, SECURITY, AND FIRE ALARM, AFFECT ASSOCIATED SYSTEMS BUILDING-WIDE. THESE SYSTEMS MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION. INDIVIDUAL DEVICES MAY BE DISCONNECTED AND/OR RECONNECTED DURING CONSTRUCTION. COORDINATE POWER OUTAGES WITH OWNER. PROVIDE TEMPORARY PANEL(S) AND/OR CIRCUIT(S) AS/IF NECESSARY TO MAINTAIN CONTINUITY. PROTECT FROM PHYSICAL AND DUST DAMAGE
- DUST DAMAGE.
 THE BUILDING SHALL MAINTAIN POWER THROUGHOUT THE
 CONSTRUCTION PROCESS. COORDINATE ENERGIZATION OF NEW
 EQUIPMENT AND THE CORRESPONDING RECONNECTION OF EXISTING
- AFFECTED ELECTRICAL DISTRIBUTION EQUIPMENT.

 J. SEE RELATED PLUMBING AND HVAC DRAWINGS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. COORDINATE INTERCONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
- INTERCONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.

 WIRING FOR MISCELLANEOUS HVAC DEVICES AND CONTROLLERS SUCH AS DAMPER MOTORS, THERMOSTATS, DUCT SMOKE DETECTORS, FREEZESTATS, DIFFERENTIAL PRESSURE SWITCHES, OCCUPIED AND UNOCCUPIED SELECTOR SWITCHES, ALARM LIGHTS, ETC., NOT SHOWN ON ELECTRICAL DRAWINGS IS DIVISION 23 WORK.
- L. FIELD VERIFY EXISTING CONDITIONS. DISCREPANCIES BETWEEN THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDS.
- M. MAINTAIN EXISTING CIRCUIT CONTINUITY ON ALL SYSTEMS ON THE SITE THAT ARE EXISTING TO REMAIN.
- N. PROVIDE ALL CONDUIT HOMERUNS AS 3/4"C. MIN.

 O. COORDINATE ALL WORK WITH OTHER CONTRACTORS AND OWNER.

 P. ALL CUTTING AND PATCHING FOR DIV. 26 WORK SHALL BE UNDER
- P. ALL CUTTING AND PATCHING FOR DIV. 26 WORK SHALL BE UNDER SUPERVISION AND APPROVAL OF ARCHITECT.

 Q. REMOVE AND/OR REINSTALL ELECTRICAL DEVICES IN ALL AREAS OF
- WORK AS REQUIRED AND REPLACE ANY ELECTRICAL DEVICES DAMAGED BY WORK. NOT ALL DEVICES MAY BE SHOWN ON DRAWINGS.
- PROVIDE ALL BOXES, FITTINGS, CONDUIT, WIRING, TERMINATIONS, EQUIPMENT. ETC. FOR A COMPLETE INSTALLATION.
- BRANCH 20A CIRCUIT CONDUCTORS SHOULD BE SIZED AS FOLLOWS:

120V CCT LENGTH	277V CCT LENGTH	AWG
< 75'	< 130'	12
75' - 120'	130'- 215'	10
120' - 200'	215' - 330'	8

ELECTRICAL DRAWINGS

E0.00 ELECTRICAL SYMBOLS AND ABBREVIATIONS
E8.00 ELECTRICAL PLANS AND RISER DIAGRAM
E8.01 ELECTRICAL DETAILS

LIFT STATION GENERATOR ENCLOSURE

> Wood St., Wrangell, AK 99929

Wrangell Medical Center 3100 Channel Drive, Suite 300 Juneau, Alaska 99801



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Revisions				
Description	Date	N		
Addendum #4	4/12/2019			
SI #11	12/11/19			
SI#13	3/6/2020			

Comm: 206054

Date: 01/24/22

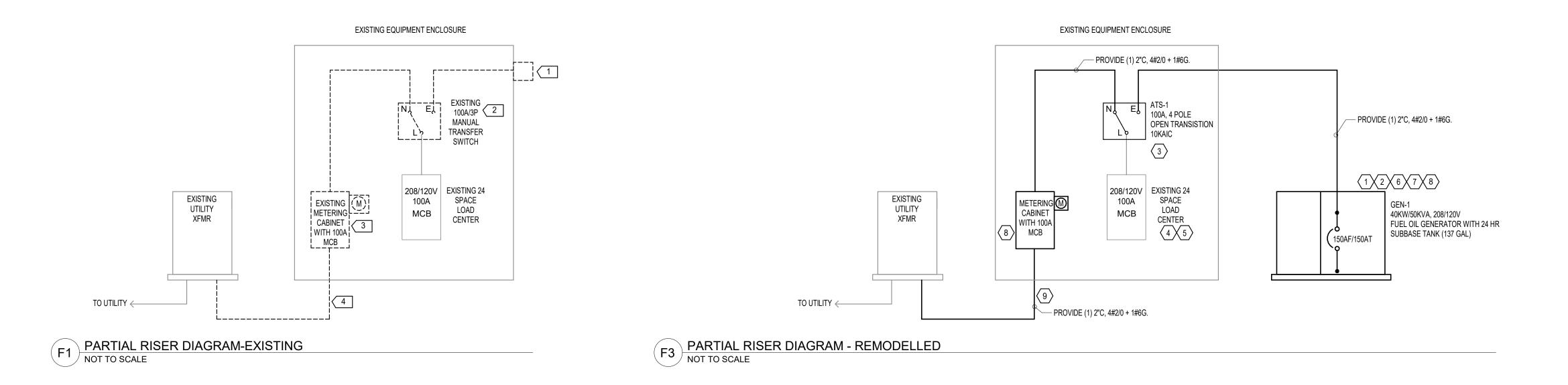
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ELECTRICAL SYMBOLS AND ABBREVIATIONS

Scale: **As indicated**

E0.00





GENERAL SHEET NOTES

- A. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
- B. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
- C. ALL UNDERGROUND CIRCUITS SHALL BE #10 AWG MINIMUM IN 1" PVC-80 CONDUIT.
- D. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.

E. PROVIDE DETECTABLE UNDEGROUND TAPE

- ABOVE EACH UNDERGROUND CONDUIT.
- F. HANDHOLES AND PULLBOXES MAY NOT BE
- INDICATED ON PLANS. PROVIDE AS REQUIRED FOR INSTALLATION.
- **KEYED POWER & SYSTEMS NOTES**
- 2. PROVIDE GFI WP DOUBLE DUPLEX RECEPTACLE WITH IN USE COVER NEXT TO
- 3. PROVIDE (4) ENCLOSED AND GASKETED
- 4. EXISTING MONUMENT SIGN. FIELD LOCATE ELECTRICAL CONNECTIONS AND PROTECT
- 6. PROVIDE 22" x 22" DUCT FOR EXHAUST.
- PROVIDE (1) LITHONIA WST LED SERIES. LITHONIA WST-LED-P2-40K-VF-MVOLT. LIGHT

- PROPOSED ROUTING OF UNDERGROUND ELECTRIC LINES. COORDINATE WITH EXISTING UNDERGROUND UTILITIES.
- LIGHT SWITCHES. CONNECT TO SAME 120V CIRCUIT AS LIGHTING.
- LUMINAIRES CONTROLLED BY LIGHT SWITCH. LITHONIA FEM-L48-3000L-AMAFL-WD-MVOLT-GZ10-40K-80CRI OR APPROVED EQUAL.
- DURING SITE WORK. IF UNABLE TO MAINTAIN EXISTING LOCATION, PROVIDE HANDHOLE AND SPLICE/EXTEND WIRING AS REQUIRED.
- PROVIDE 3-INCH EXHAUST PIPE FOR GENERATOR AND ROUTE ABOVE EXHAUST LOUVER. EXTEND SLIGHTLY PASS ROOF OVERHANG.
- CONTROLLED BY ANOTHER WALL SWITCH.

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- **GENERAL NOTES:** A. PROVIDE COPPER CONDUCTORS UNLESS OTHERWISE NOTED.
- B. PROVIDE XHHW INSULATION FOR UNDERGROUND CONDUCTORS.
- C. PROVIDE GALVANIZED RIGID STEEL CONDUIT FOR EXPOSED EXTERIOR CONDUITS.
- D. PROVIDE CONCRETE PAD FOR FLOOR-MOUNTED EQUIPMENT. EXTEND PAD 4" PAST FOOTPRINT OF EQUIPMENT.

DEMOLITION KEYED NOTES:

- 1. REMOVE EXISTING GENERATOR RECEPTACLE BACK TO MANUAL TRANSFER SWITCH. TURN OVER RECEPTACLE TO OWNER.
- 2. REMOVE EXISTING 100A MANUAL TRANSFER SWITCH AND TURN OVER TO OWNER. PREPARE NORMAL LINE AND LOAD CIRCUITRY FOR REUSE. DEMOLISH SWITCH AFTER PERMANENT GENERATOR HAS BEEN SET TO MINIMIZE OUTAGE.
- 3. REMOVE EXISTING COMBINATION METER SOCKET/SERVICE DISCONNECT AND TURN OVER TO OWNER.
- 4. PREPARE EXISTING SERVICE LATERAL STUB-UP FOR EXTENSION. EXTEND CONDUIT TO BACKSIDE OF ENCLOSURE. CUT AND DRILL EXISTING ENCLOSURE TO ACCOMMODATE NEW ROUTE. SEAL AND PAINT ALL EXPOSED METAL AS REQUIRED.

REMODELLED KEYED NOTES:

- 1. GENERATOR FURNISHED BY OWNER, INSTALLED BY ELECTRICAL.
- 2. GENERATOR TO BE A SEPERATELY DERIVED SYSTEM. PROVIDE 1/2" X 10' COPPER CLAD GROUND ROD AT OPPOSITE CORNERS OF CONCRETE PAD. EXOTHERMIC WELD #3/0 COPPER GROUND CONNECTION TO GENERATOR AT EACH GROUND ROD. PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO OBTAIN 25 OHMS GROUND RESISTANCE.
- 3. INSTALL OWNER FURNISHED AUTOMATIC TRANSFER SWITCH. ATS TO FIT IN SAME LOCATION AS DEMOLISHED MANUAL TRANSFER SWITCH APPROXIMATELY 18"W x 32"H X 13"D MAX. FIELD VERIFY EXACT DIMENSIONS OF EXISTING EQUIPMENT ENCLOSURE AND MODIFY LINE AND LOAD SIDE CONNECTIONS AS REQUIRED.
- 4. PROVIDE 60A/3P BREAKER AND (1) 1.5"C, 3#4 + 1#8G TO GENERATOR SINGLE POINT CONNECTION. GENERATOR ACCESSORIES ARE FACTORY WIRED TO THE SINGLE POINT
- LIGHTING AND POWER.

5. PROVIDE (1) 20A/1P BREAKERS AND (1) 1"C, 2#10 +1#10G TO GENERATOR SHED FOR

- 6. INSTALL OWNER FURNISHED GENERATOR REMOTE SHUT-OFF ON INSIDE OF SHED. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 7. OUTPUT OF GENERATOR CONTROLLER TO BE INTERCONNECTED TO EXISTING SCADA INPUTS IN EQUIPMENT ENCLOSURE FOR ALARM. PROVIDE EMPTY (2) 1" CONDUIT FOR USE BY OWNER'S SCADA VENDOR. ROUTE FROM GENERATOR AND STUB INTO EQUIPMENT ENCLOSURE.
- 8. PROVIDE NEMA 3R COMBINATION METERING CABINET WITH SERVICE DISCONNECT ON BACKSIDE OF ENCLOSURE. COORDINATE ALL REQUIREMENTS WITH UTILITY COMPANY.
- 9. EXTEND EXISTING CONDUIT AND PROVIDE WIRING TO NEW LOCATION OF METERING



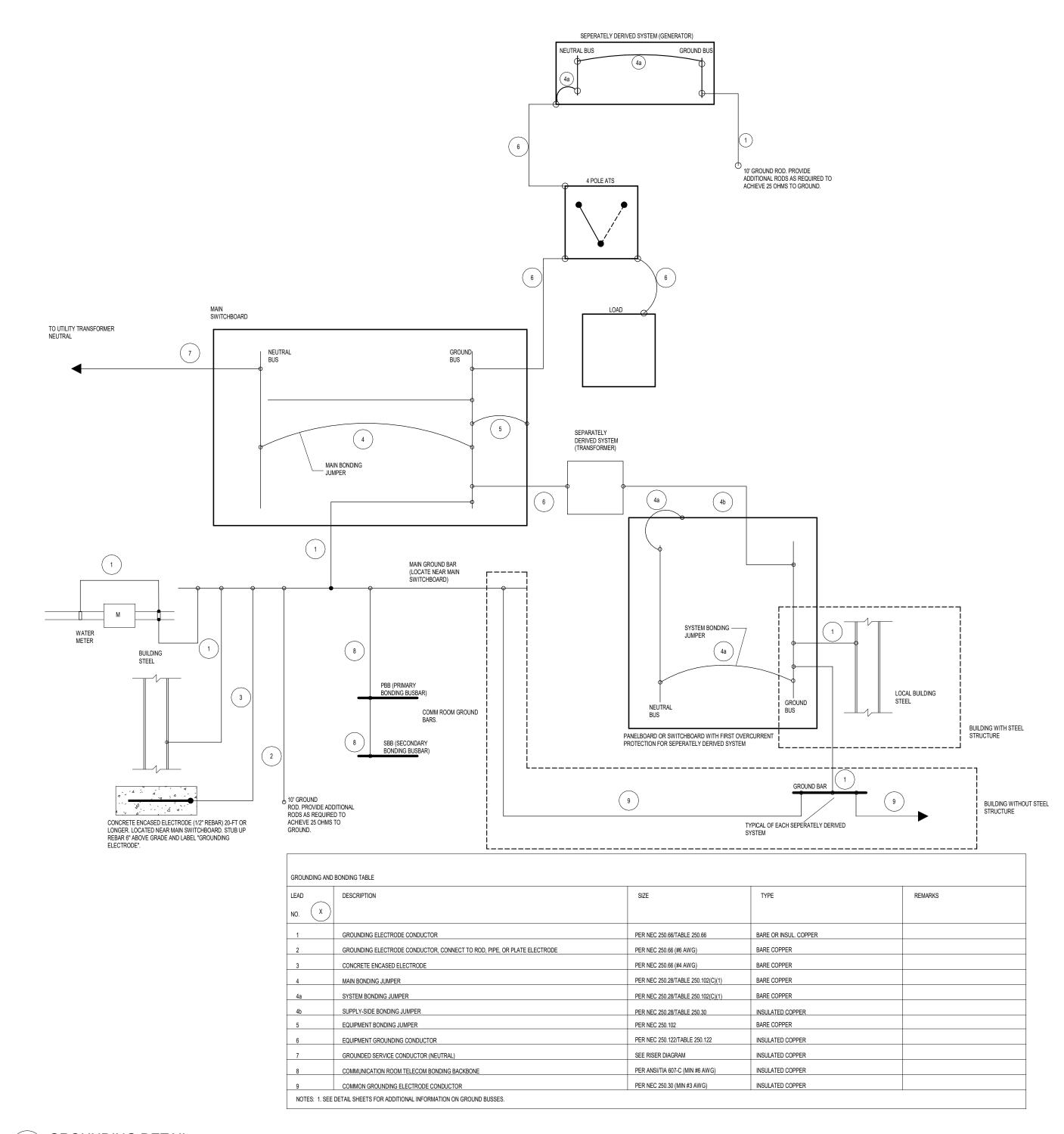
Revisions			
Description	Date		

Date: 01/24/22 Check: SC

> **ELECTRICAL PLANS AND RISER DIAGRAM**

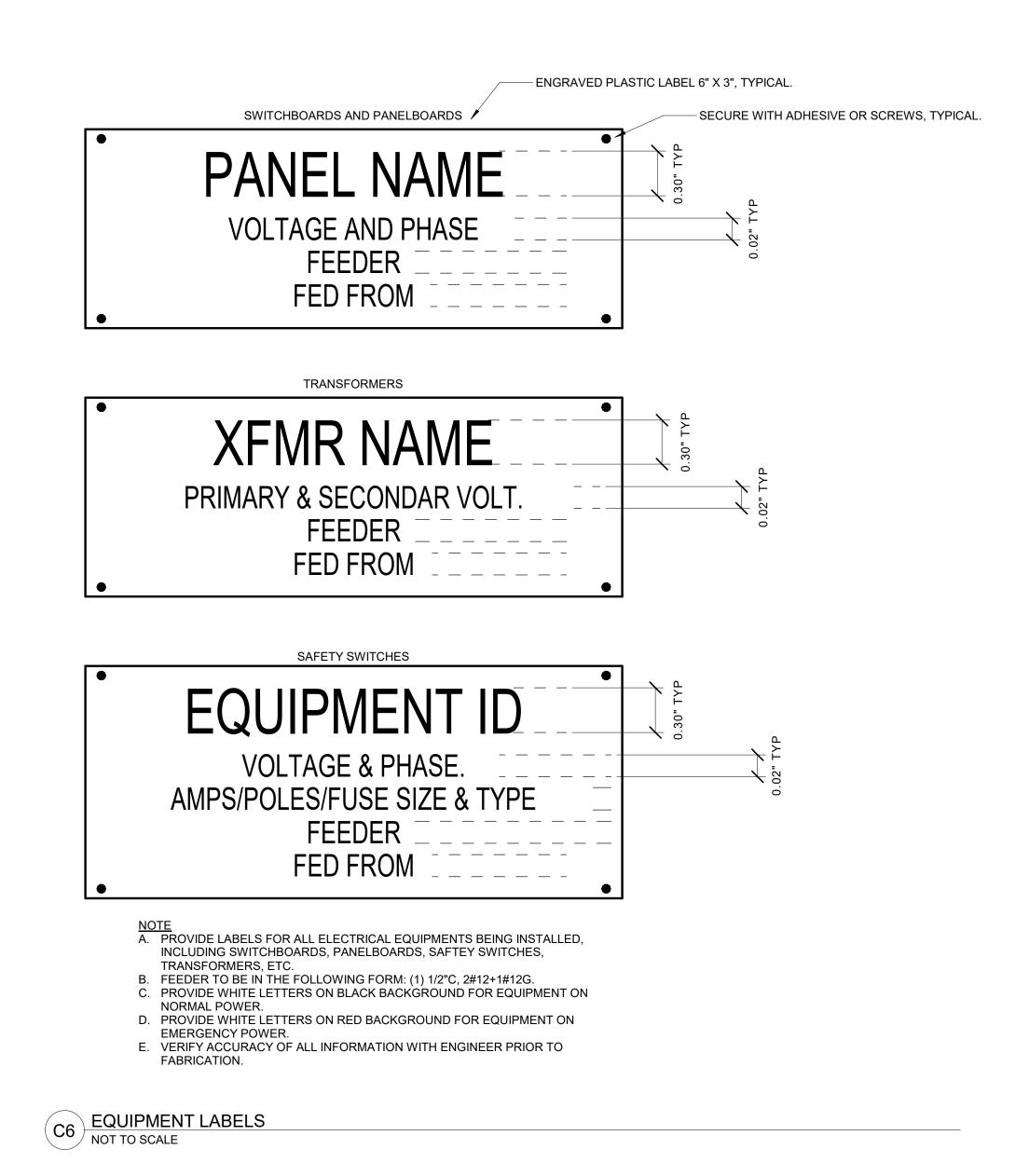
NOTE:
- INSTALL AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- GENERATOR IS PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION AS REQUIRED.
- REFER TO PLANS FOR PIPE SIZE AND ROUTING.

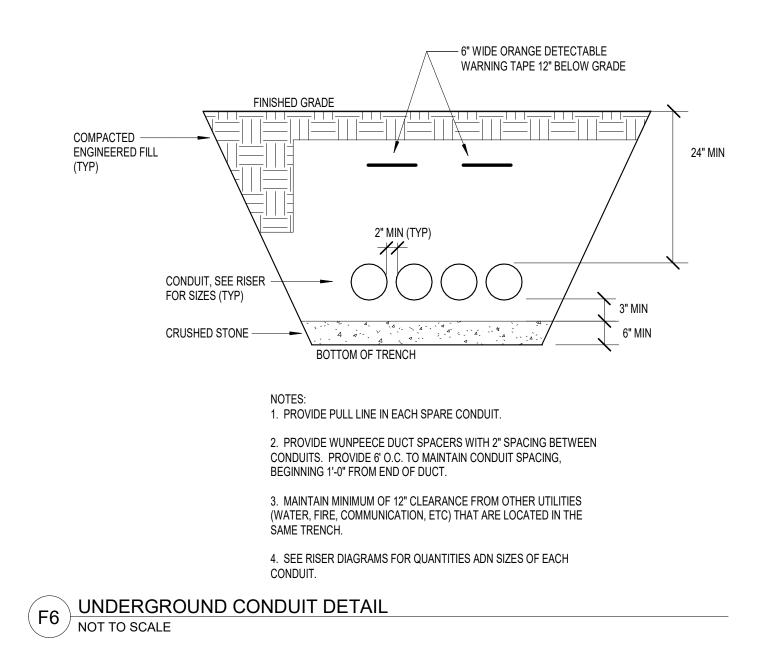
B2 GENERATOR DETAIL NOT TO SCALE



F2 GROUNDING DETAIL NOT TO SCALE

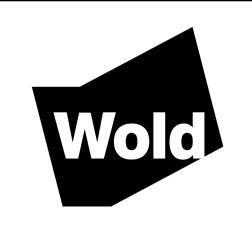
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Revisions						
Date	I					

ELECTRICAL DETAILS

Scale: **As indica**

Check: SC

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