

- LEGEND**
- △ SET 5/8" REBAR W/RPC "DEA CONTROL"
  - FOUND BRASS CAP PER ROS 262930
  - FOUND 5/8" IRON ROD W/YPC PLS 8806
  - CALCULATED POINT
  - ⊕ WELL
  - PROPANE TANK
  - ☼ CONIFER TREE
  - BOULDER
  - ⊕ WATER TANK/FILL

SITE PLAN KEYED NOTES	
01	EXISTING MAINTENANCE BUILDING TO REMAIN.
02	EXISTING HOME TO REMAIN.
03	EXISTING OUTBUILDING TO REMAIN.
04	EXISTING FUEL BUILDING TO REMAIN.
05	EXISTING FENCE TO REMAIN.
06	EXISTING PROPANE TANKS TO REMAIN.
07	FUTURE - STORAGE SHED (NOT IN SCOPE)
08	EXISTING WELL
09	PROPOSED DRAIN FIELD. SEE CIVIL.
10	NEW MANUFACTURED HOME CONTRACTOR SHALL REMOVE ALL DEBRIS, VEGETATION AND ALL OTHER ITEMS ON SITE FOR NEW MANUFACTURED HOME.
11	REUSE SITE BOULDERS TO CREATE PERIMETER AROUND DRAIN FIELD.
12	CONTRACTOR TO REMOVE ALL VEGETATION IN THIS AREA IN PREPARATION FOR NEW DRAIN FIELD. COORDINATE WITH CIVIL DRAWINGS.
13	FUTURE - METAL BUILDING OVER BUILD (NOT IN SCOPE)
14	FUTURE - MANUFACTURED HOME LOCATION (NOT IN SCOPE)

**1**  
SP100  
SCALE: 1" = 100'  
**ARCHITECTURAL SITE PLAN**



**PROJECT NAME:**  
**ITD D4 STANLEY**  
 Mobile Home Unit  
 and Site Design  
 STANLEY, ID

**SHEET TITLE:**  
**ARCHITECTURAL SITE PLAN**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS or SPECIFICATIONS

REVISION	DATE

CLIENT PROJ. NUMBER:  
 ARCH. JOB NUMBER: 23607

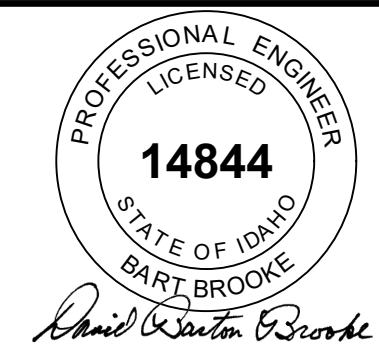
SHEET ISSUED DATE: April 2024

SHEET **SP100**



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1-31-24

ITD MOBILE HOME  
UNIT AND SITE DESIGN  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

EXISTING  
SITE  
LAYOUT

DRAWING SCALE APPLIES  
TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY  
ALL DIMENSIONS & CONDITIONS  
SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF  
DRAWINGS OR SPECIFICATIONS

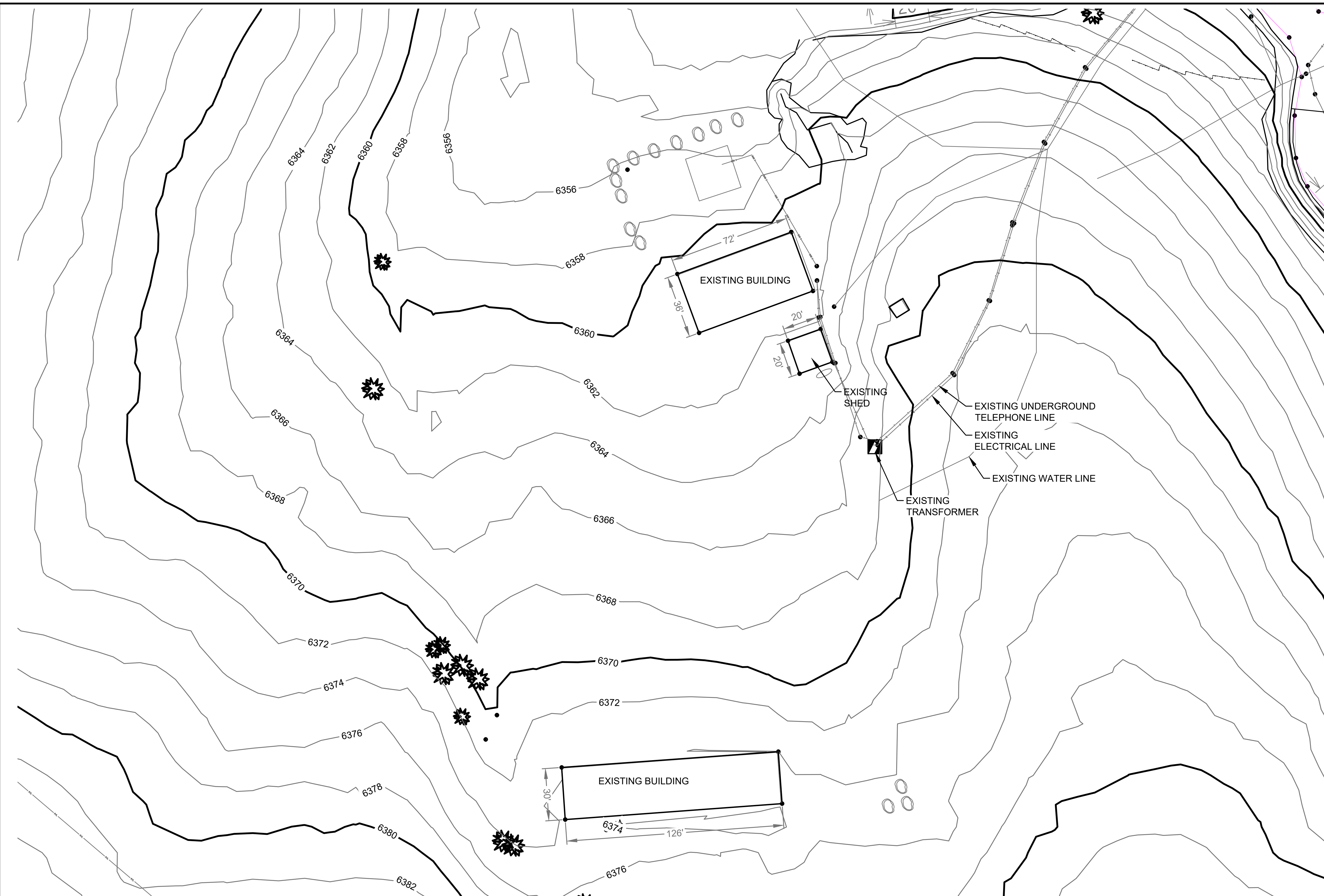
REVISION DATE

CLIENT  
PROJ. NUMBER: ITD23-0375

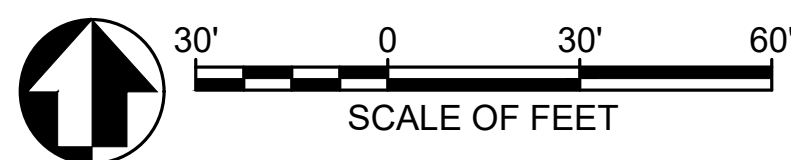
ARCH.  
JOB NUMBER: 23607

SHEET  
ISSUED DATE: JANUARY 2024

SHEET  
C0.1



1 EXISTING SITE LAYOUT  
C0.1



SHEET NOTES:

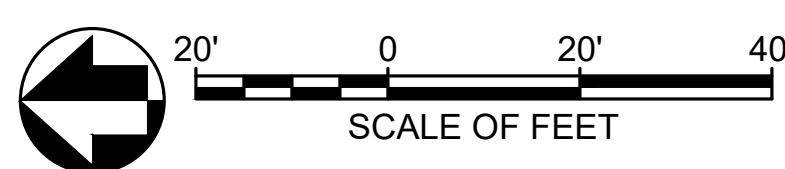
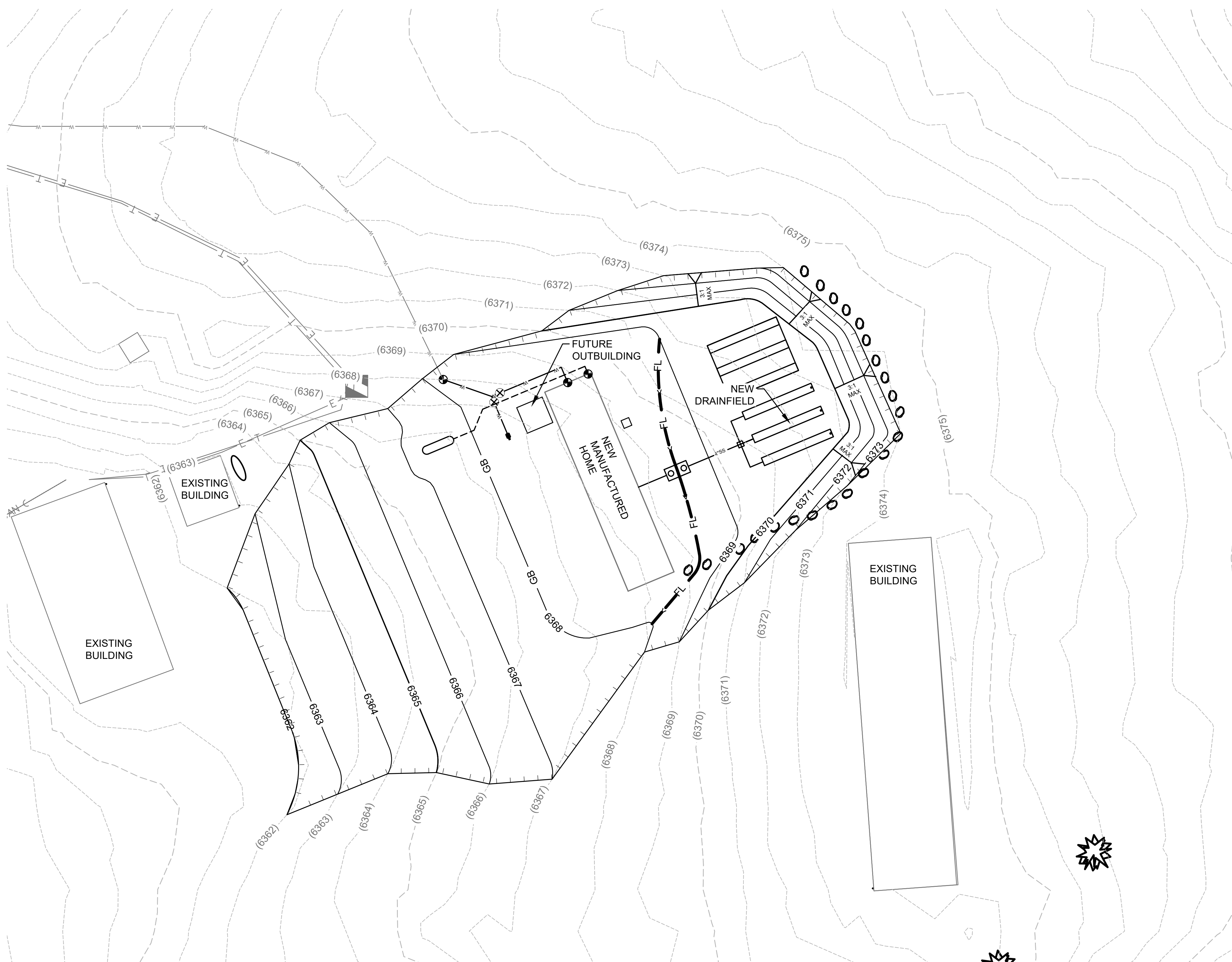
- EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES AND VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
- SEE SHEET C2.0 FOR ENLARGED SITE LAYOUT.
- SEE SHEET C2.0/C2.1 FOR DRAINFIELD SIZING AND DISPOSAL DETAILS.
- SEE SHEET C3.0 FOR SITE GRADING PLAN.

LEGEND:

— SS — SS —	SANITARY SEWER
— W — W — W —	WATER
— 2400 —	NEW CONTOUR
- - - (2400) - - -	EXISTING CONTOUR
— E —	EXISTING ELECTRICAL LINE
— T —	EXISTING UNDERGROUND TELEPHONE LINE
— FL —	FLOW LINE
— GB —	GRADE BREAK
— DAYLIGHT LINE —	DAYLIGHT LINE
⊗	ISOLATION VALVE
⊕	FROST-FREE YARD HYDRANT

ABBREVIATIONS:

EA	EACH
EG	EXISTING GRADE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
FS	FINISH SURFACE
GB	GRADE BREAK
GPD	GALLONS PER DAY
HP	HIGH POINT
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
POC	POINT OF CONNECTION
SF	SAFETY FACTOR
SF	SQUARE FOOT
S	SEWER
SS	SANITARY SEWER
TYP	TYPICAL
W	WATER



1 OVERALL SITE LAYOUT  
 C1.0

SHEET NOTES:

- EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES AND VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
- THE PROPOSED DRAINFIELD SIZING IS CONSERVATIVELY OVER SIZED GIVEN THE ASSUMED SOIL APPLICATION RATE. SEE C1.1 FOR SIZING CALCULATIONS.

KEYNOTES: # →

- INSTALL UNDERGROUND POWER TO CONNECT TO EXISTING TRANSFORMER. SEE ELECTRICAL SHEET FOR DETAILS.
- CONNECT TO EXISTING WATER LINE.
- INSTALL 1" ISOLATION BALL VALVES.
- INSTALL WATER SERVICE WITH FROST-FREE YARD HYDRANT. SEE DETAIL 3, SHEET C2.2.
- INSTALL 3' X 3' CONCRETE PAD FOR CONDENSER.
- INSTALL 4" SDR-35 PVC SEWER PIPE 2% MIN.
- INSTALL 1000-GAL SEPTIC TANK PER COUNTY HEALTH DISTRICT STANDARDS. SEE DETAIL 1, SHEET C2.2.
- INSTALL 4" SDR-35 PVC SEWER PIPE 2% MIN. SEE DETAIL 1, SHEET C2.1.
- INSTALL DISTRIBUTION BOX. SEE DETAIL 1, SHEET C2.2.
- 1" LPG GAS LINE. SEE MECHANICAL DRAWING SHEET M2.0 FOR CONTINUATION.
- RELOCATE EXISTING SITE BOULDERS TO ESTABLISH PERIMETER AROUND DRAINFIELD.
- INSTALL DRAINFIELD PER COUNTY HEALTH DISTRICT STANDARDS. SEE DETAIL 2, SHEET C2.2.
- 1" COLD WATER LINE. SEE MECHANICAL DRAWING SHEET M2.0 FOR CONTINUATION.
- INSTALL RIGID INSULATION 4-INCHES THICK BY 2-FEET WIDE OVER TOP OF SEWER PIPE BETWEEN MANUFACTURED HOME EDGE OF PAD AND SEPTIC TANK. PROVIDE 6-INCH LAYER OF REJECT SAND BETWEEN TOP OF PIPE AND RIGID INSULATION.
- INSTALL INSPECTION PORT AND VENTILATION RISER PER DETAIL 2 SHEET C2.2.

PRELIMINARY DRAINFIELD SIZING CALCULATIONS:

CURRENTLY THE EXISTING SOIL TYPE IS UNKNOWN. HOWEVER, NRCS SOIL MAPPING IN THE AREA INDICATES THE PRESENCE OF THREE SOIL TYPES:

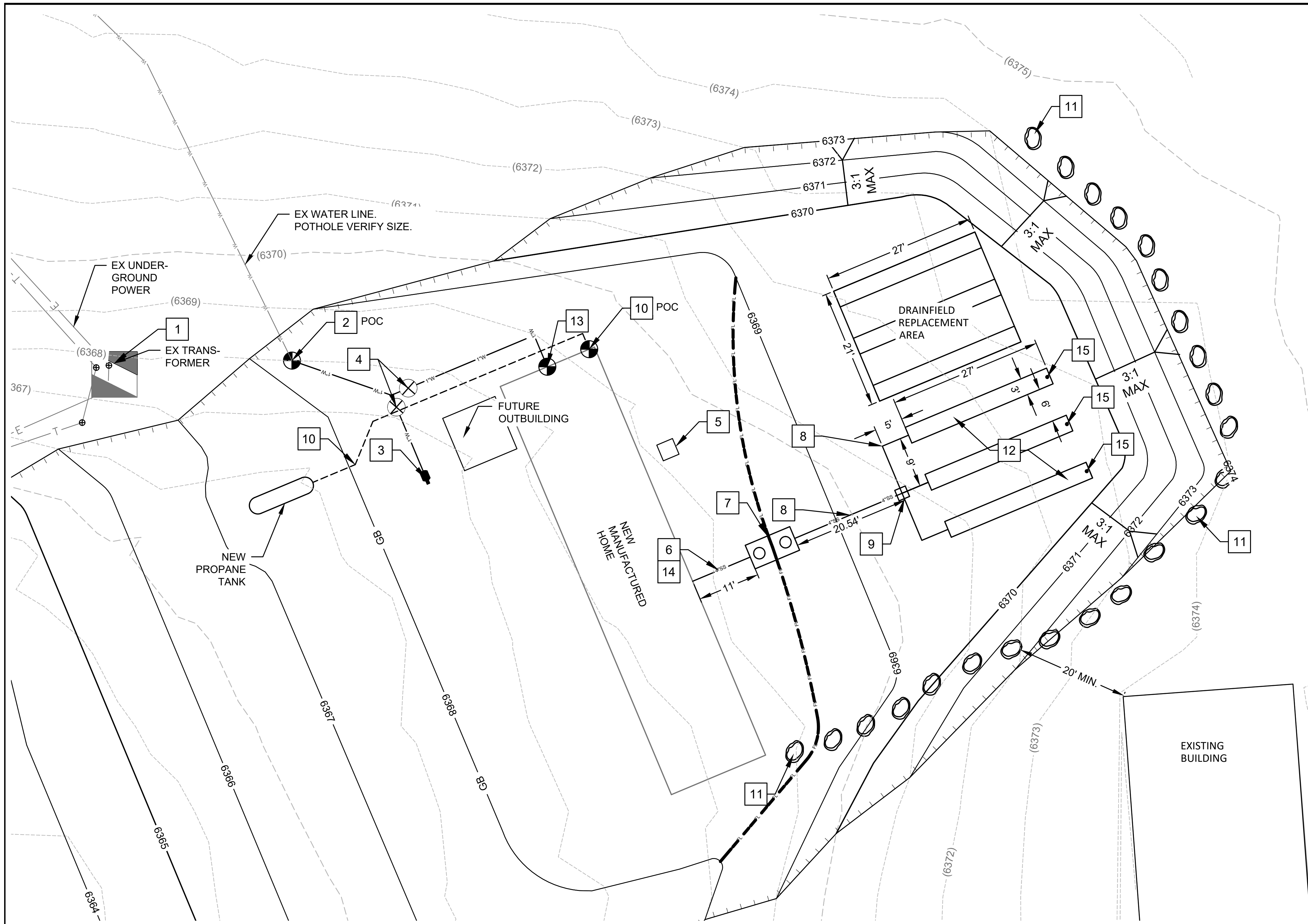
- CASTLEPEAK-YANKEEFORK COMPLEX,
- REDFISH-FEZIP-LILYAKE COMPLEX, AND
- STRUGGLE COMPLEX.

THESE ARE RESPECTIVELY ASSOCIATED WITH VERY GRAVELLY SANDY LOAM, EXTREMELY GRAVELLY SANDY LOAM, AND EXTREMELY GRAVELLY COURSE SAND. ALL THESE MATERIALS ARE CONSIDERED TO BE WELL DRAINING AND SUITABLE FOR PERCOLATION FOLLOWING SECONDARY TREATMENT THROUGH A SAND BED HAVING A MINIMUM LAYER THICKNESS OF 36-INCHES. AN ASSUMED PRELIMINARY APPLICATION RATE OF 1.2 GPD/FT<sup>2</sup> IS USED IN THE PRELIMINARY DESIGN.

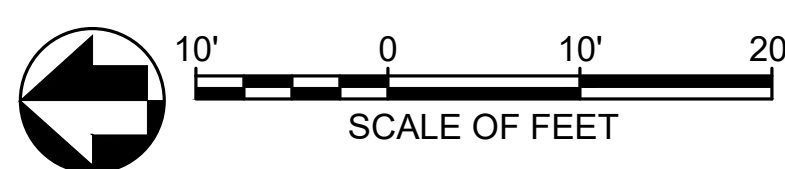
SOIL APPLICATION RATE = 1.2 GPD/FT<sup>2</sup>  
 1 NEW BUILDING WITH 3 BEDROOMS ≈ 2-3 BEDROOMS @ 250 GPD/EA (250 GPD)  
 ARC CHAMBERS PROVIDE (25% ALLOWABLE REDUCTION)

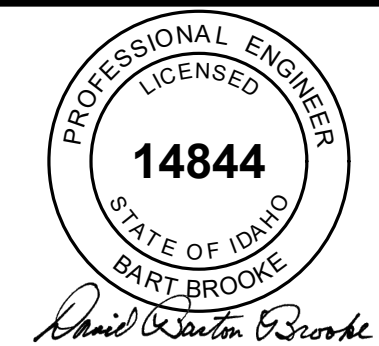
SYSTEM SIZING CALCULATIONS WITH ARC CHAMBERS:  
 LENGTH = [(250 GPD) / (1.2 GPD/FT<sup>2</sup>)] / 3-FT<sup>2</sup>/LF = 69-FT  
 TWENTY-FIVE PERCENT REDUCTION = 69-FT(0.75) = 52-LF  
 REDUCTION LENGTH = 52.1 LF (2 LEGS EACH 27' LONG)  
 (USE 3 LEGS EACH 27' LONG) = 81-FT  
 PRELIMINARY DESIGN SAFETY FACTOR = 81/52 = S.F. 1.56

SYSTEM SIZING USING A STANDARD SYSTEM WITH 6-FT SEPARATION BETWEEN TRENCH SIDEWALLS:  
 AREA REQUIRED = [(250 GPD) / (1.2 GPD/FT<sup>2</sup>)] = 208.33 FT<sup>2</sup>  
 TRENCHES = (3) TRENCHES 27'-0" X 4' WIDE = 324 FT<sup>2</sup>  
 PRELIMINARY DESIGN SAFETY FACTOR = 324/208 = S.F. 1.56



1 SITE LAYOUT  
 C2.0





1-31-24

ITD MOBILE HOME  
 UNIT AND SITE DESIGN  
 STANLEY, ID

PROJECT NAME:

SHEET TITLE:

SEWER LAYOUT

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

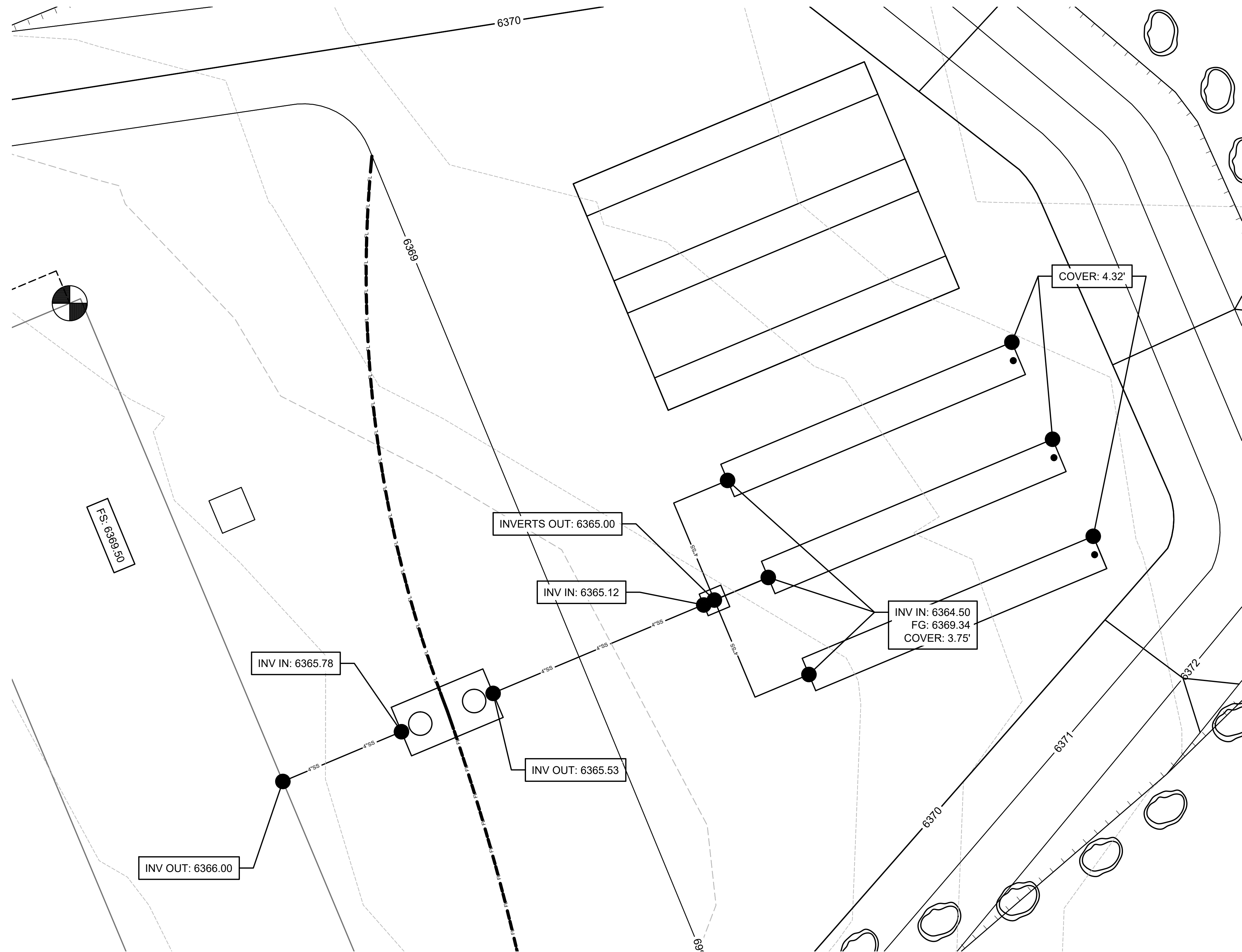
ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

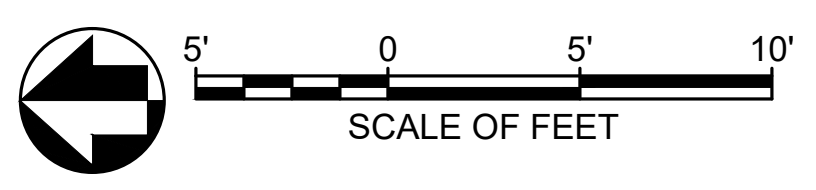
SHEET C2.1

SHEET NOTES:

- EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES AND VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
- THE PROPOSED DRAINFIELD SIZING IS CONSERVATIVELY OVER SIZED GIVEN THE ASSUMED SOIL APPLICATION RATE. SEE C1.1 FOR SIZING CALCULATIONS.
- FINAL INVERT ELEVATIONS TO BE VERIFIED BY ENGINEER UPON PERMIT ISSUANCE BY COUNTY HEALTH DISTRICT PRIOR TO CONSTRUCTION AS SEWER TREATMENT AND DISPOSAL SYSTEM PERMIT ISSUANCE MAY AFFECT FINAL DESIGN.
- CONTRACTOR SHALL FOLLOW INFILTRATOR'S INSTALLATION REQUIREMENTS FOR COVER UP TO AND OVER 4- FEET. CONTACT THE TECHNICAL SERVICE DEPARTMENT (800) 221-4436 FOR CURRENT INSTALLATION INSTRUCTIONS.
- INSTALL RIGID INSULATION 4-INCHES THICK BY 2- FEET WIDE OVER TOP OF SEWER PIPE BETWEEN MANUFACTURED HOME EDGE OF PAD AND SEPTIC TANK. PROVIDE 6-INCH LAYER OF REJECT SAND BETWEEN TOP OF PIPE AND RIGID INSULATION.

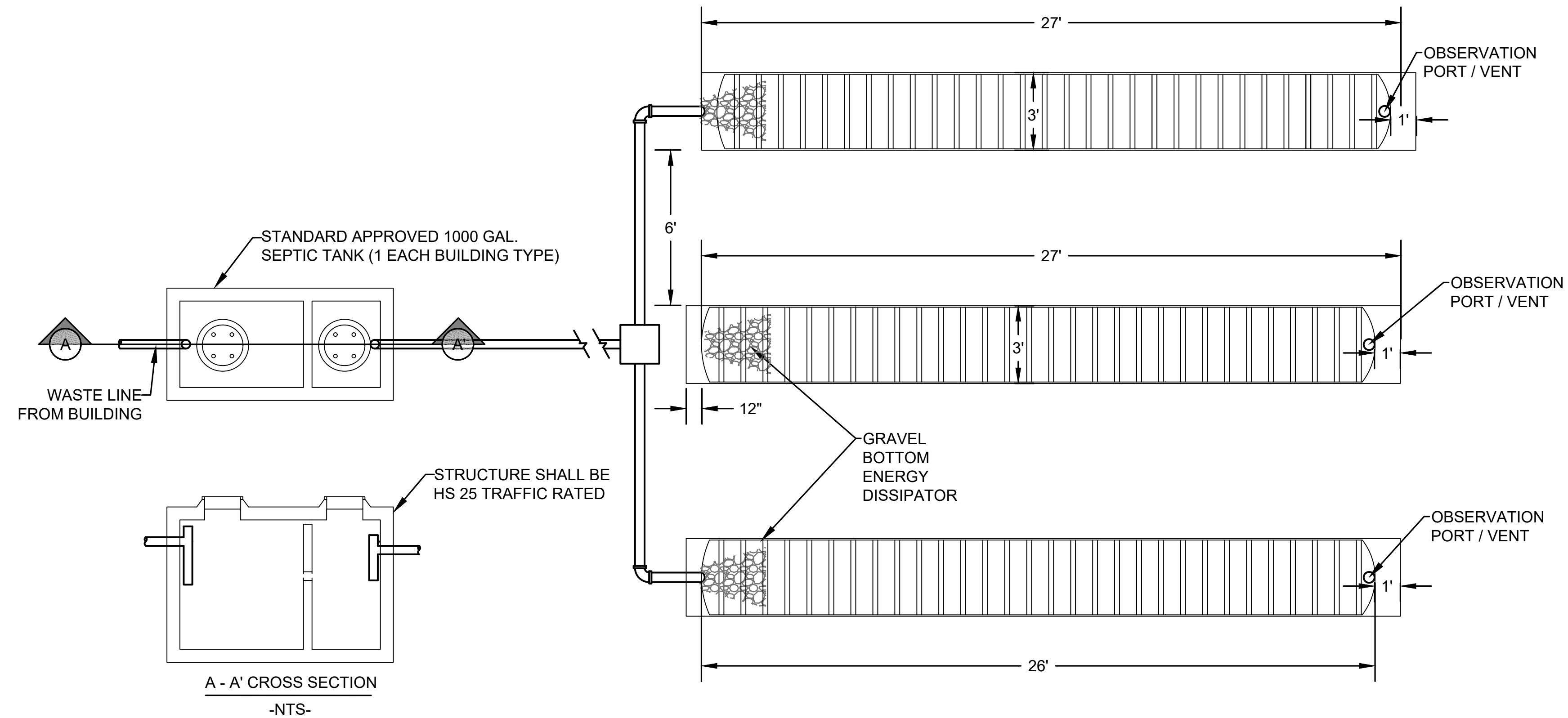


1 SITE LAYOUT  
 C2.1

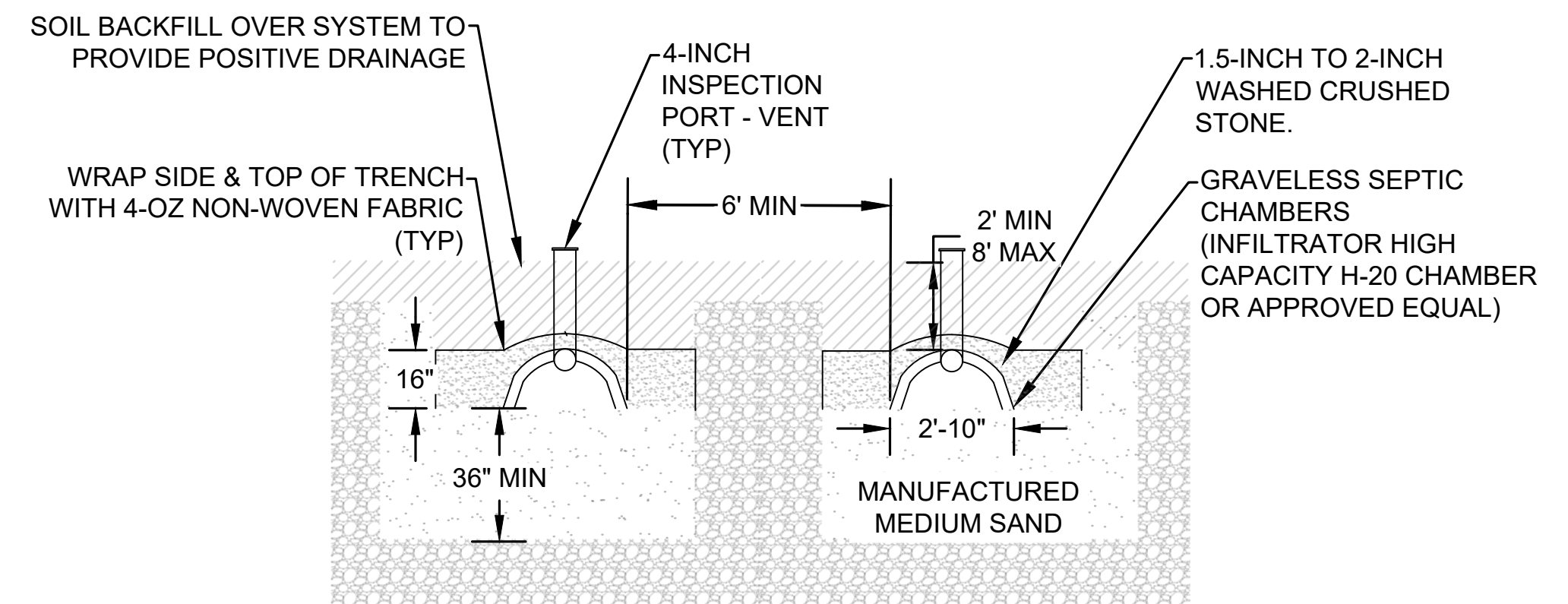


**SHEET NOTES:**

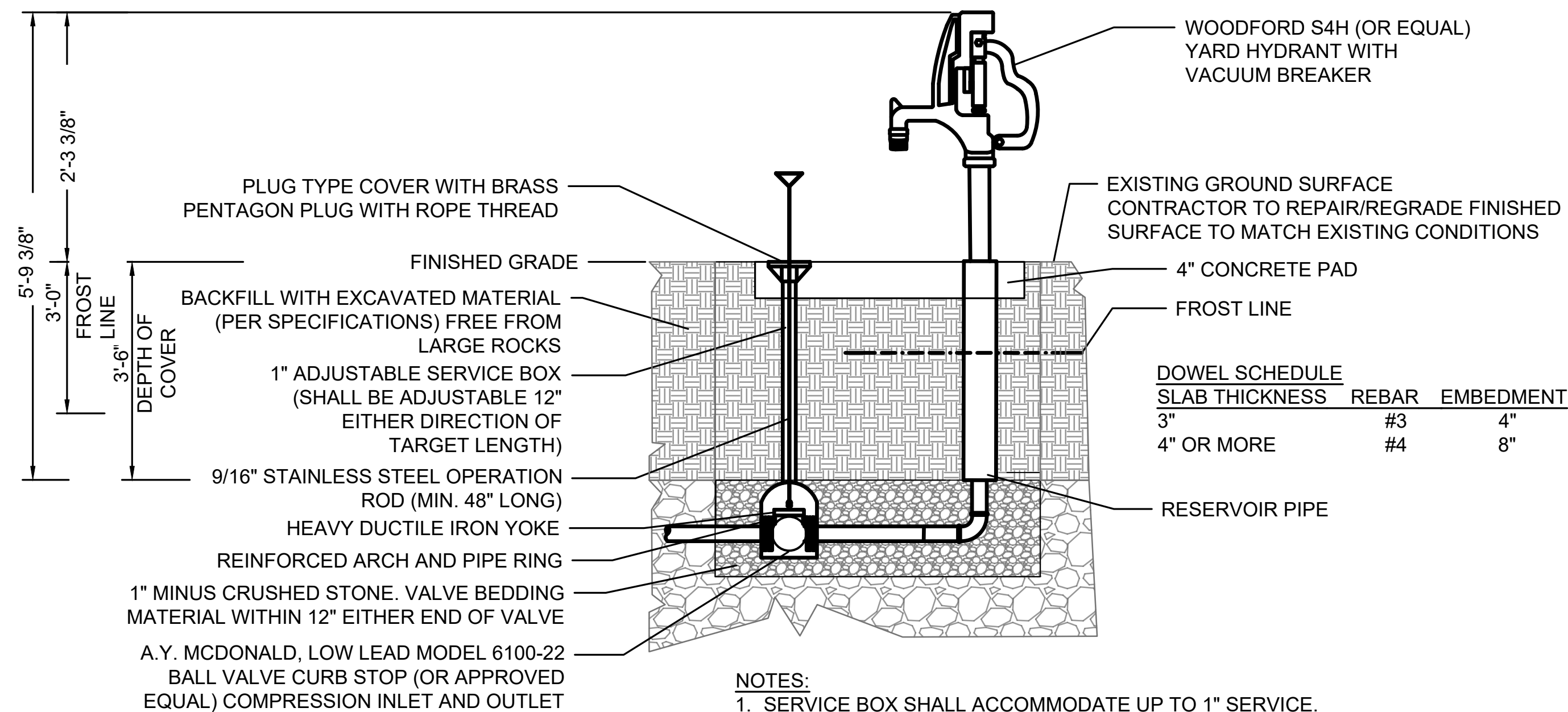
1. PRELIMINARY DRAINFIELD SIZING NEEDS TO BE CONFIRMED PENDING RESULTS BASED ON STATE HEALTH DISTRICT SITE INSPECTION.



**1 SEPTIC SYSTEM & DRAINFIELD ENLARGED PLAN DETAIL**  
 C2.2 SCALE: NTS



**2 DRAINFIELD SECTIONS**  
 C2.2 SCALE: NTS



- NOTES:**
1. SERVICE BOX SHALL ACCOMMODATE UP TO 1" SERVICE.
  2. SERVICE BOX TO BE INSTALLED IN SUCH A MANNER AS TO ENSURE IT WILL BE FREE FROM OBSTRUCTIONS AND DEBRIS AND THAT NO MATERIAL WILL INTERFERE WITH VALVE OPERATION.
  3. ONE HYDRANT LOCATION IS INSTALLED IN A CONCRETE PAD. CONTRACTOR SHALL REPLACE PAD REMOVED DURING INSTALLATION. IF A CONCRETE PATCH IS REQUIRED THE PATCH SHALL BE DOWELED; SEE SCHEDULE FOR REBAR SIZE AND EMBEDMENT ABOVE. SEE SHEET C2.0 FOR HYDRANT LOCATION.

**3 YARD HYDRANT**  
 C2.2 SCALE: NTS

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
 STANLEY, ID

**SEWER & WATER DETAILS**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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REVISION	DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

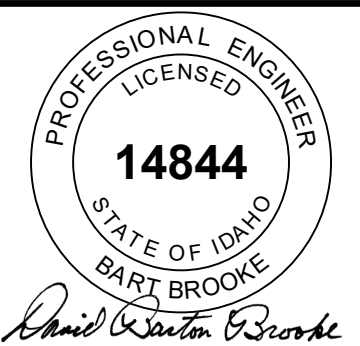
SHEET ISSUED DATE: JANUARY 2024

SHEET **C2.2**



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1-31-24

ITD MOBILE HOME  
UNIT AND SITE DESIGN  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

GRADING PLAN

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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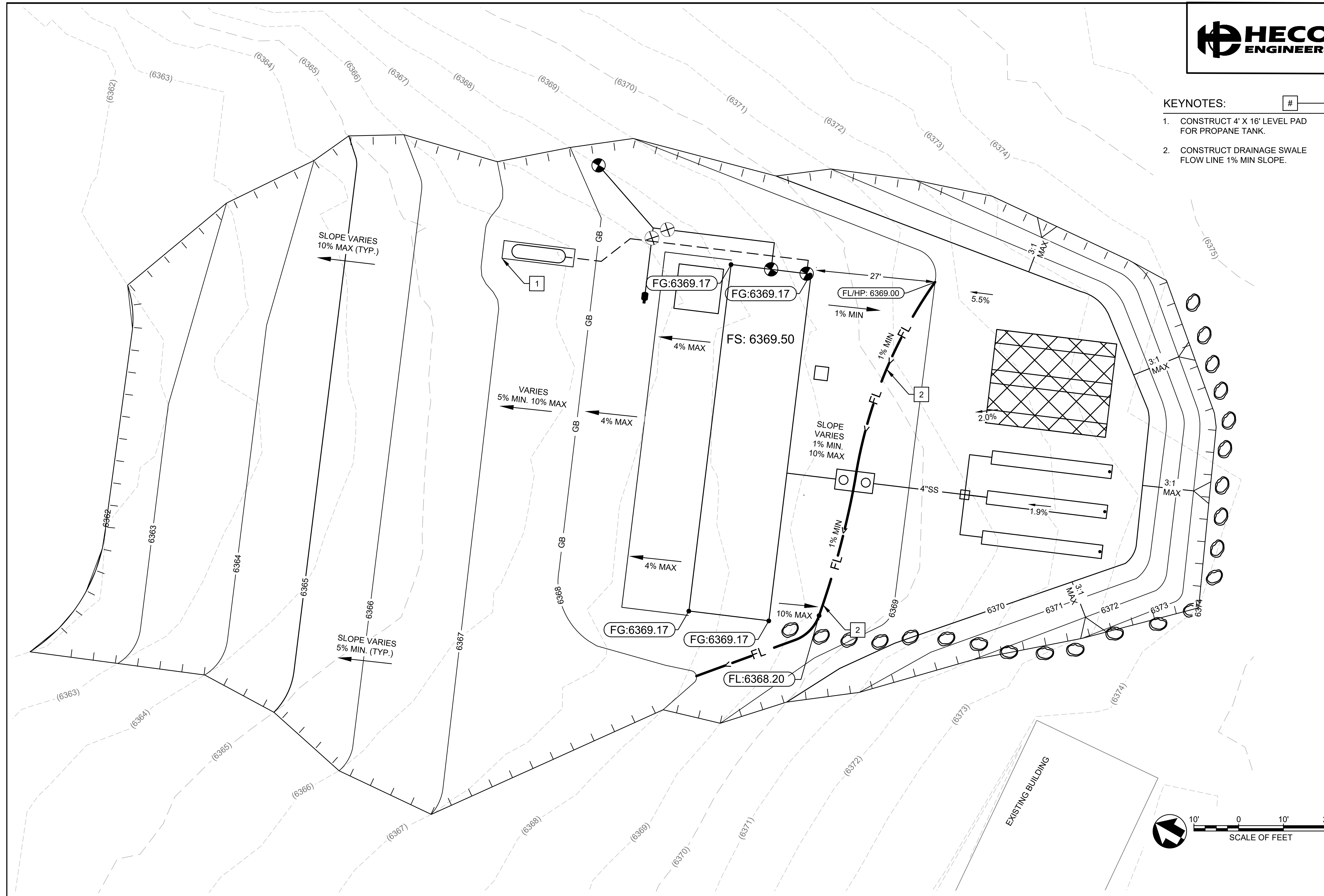
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ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

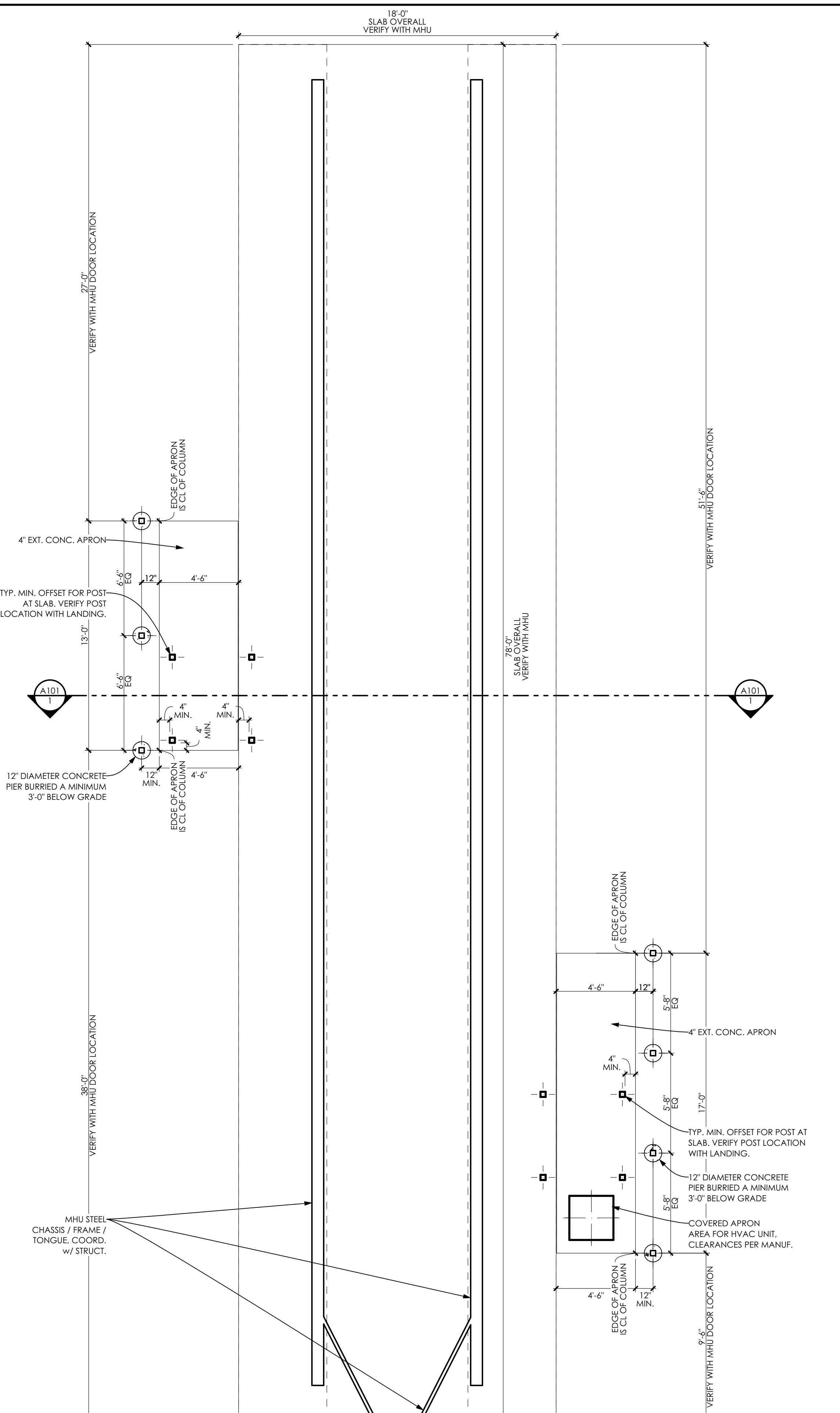
SHEET C3.0

- KEYNOTES: #
- CONSTRUCT 4' X 16' LEVEL PAD FOR PROPANE TANK.
  - CONSTRUCT DRAINAGE SWALE FLOW LINE 1% MIN SLOPE.

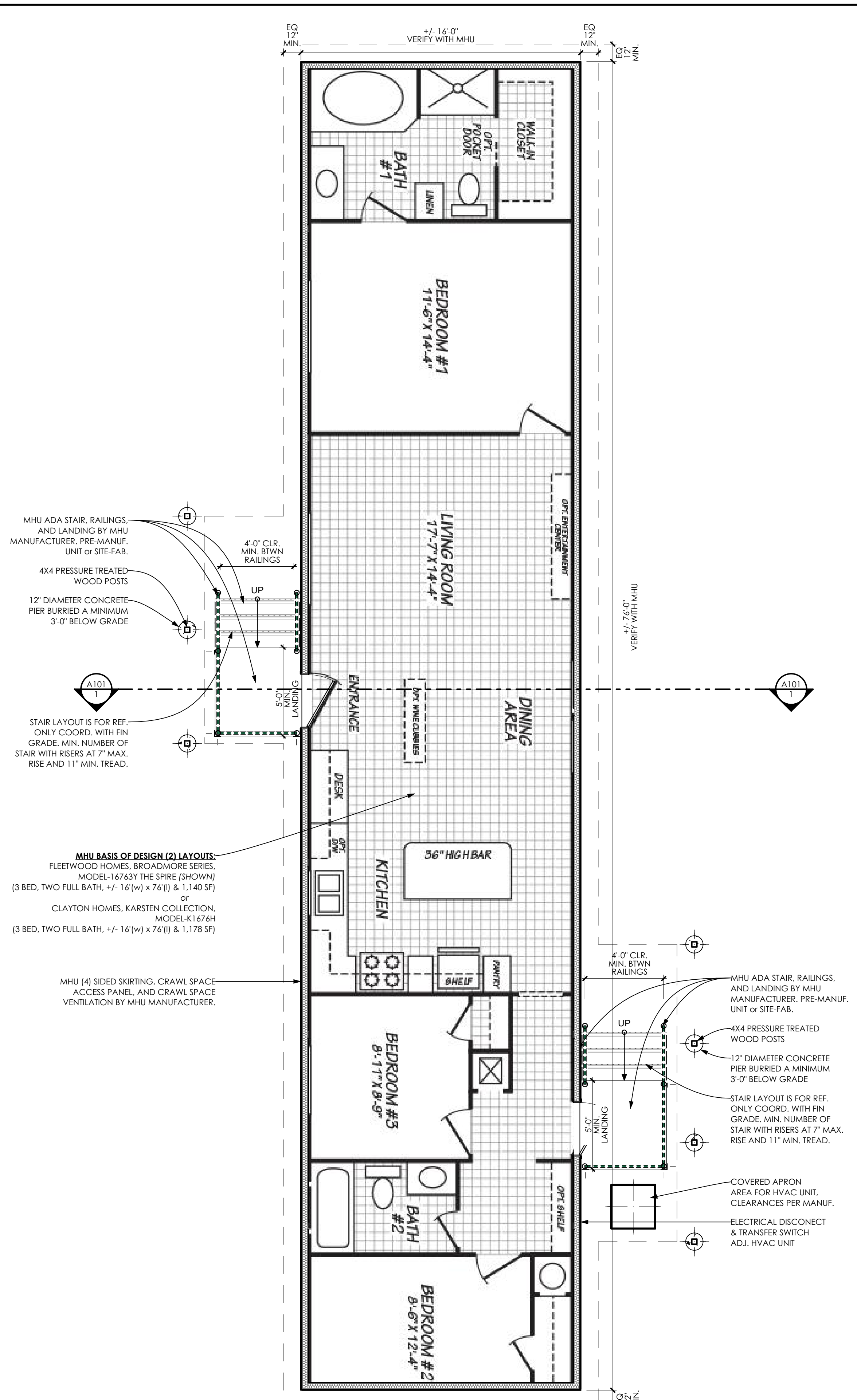


1 GRADING PLAN  
C3.0





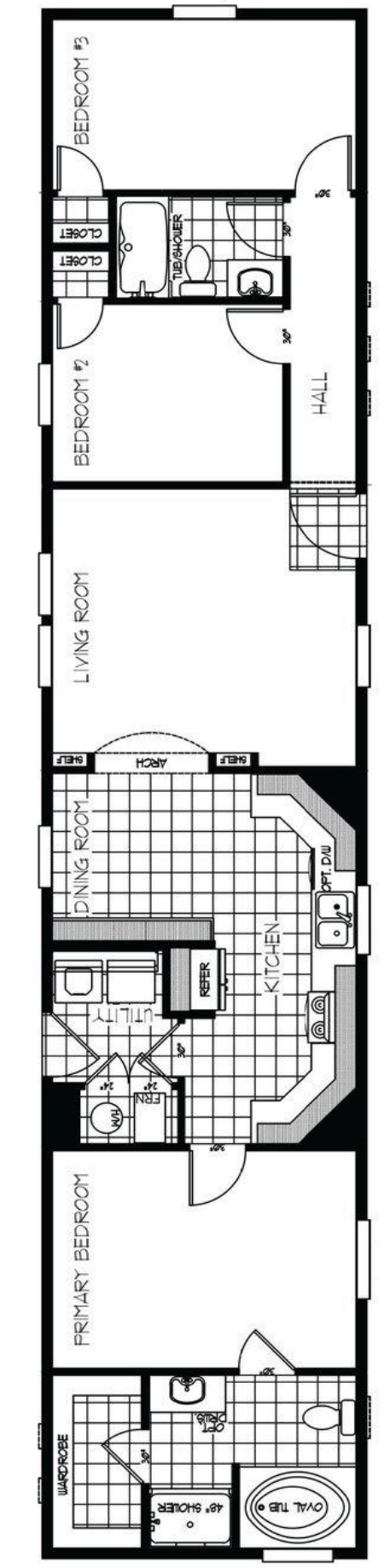
**2 MHU MAIN FRAME PLAN**  
SCALE: 1/4" = 1'-0"



**1 MHU FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- 1) VERIFY MHU FINAL SIZE PRIOR TO SLAB LAYOUT AND INSTALLATION.
- 2) SEE PLUMBING, AND ELECTRICAL SHEET FOR ALL MHU ROUGH-IN AND HOOK-UP ITEMS.
- 3) ALL LOCATIONS FOR STAIR CONC. APRONS, STAIRS, RAILINGS, AND LANDINGS WILL NEED TO BE FIELD VERIFIED PRIOR TO INSTALLATION BASED ON MHU SELECTION & LAYOUT.
- 4) ALL LOCATIONS FOR CANOPY COLUMN FOUNDATIONS, CANOPY COLUMNS, CANOPY ROOF FRAMING, AND ASSOCIATED CANOPY ROOFING ITEMS WILL NEED TO BE FIELD VERIFIED PRIOR TO INSTALLATION BASED ON MHU SELECTION & LAYOUT.
- 5) ALL MHU SELECTIONS SHALL MEET MINIMUM SNOW LOAD OF 128 PSF AND MINIMUM WIND SPEED OF 115 MPH.
- 6) ALTERNATE MHU FLOOR PLAN: (BELOW) CLAYTON HOMES, KARSTEN COLLECTION, MODEL - K1676H (3 BED, TWO FULL BATH, +/- 16'(w) x 76'(l) & 1,178 SF)



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**REGISTERED PROFESSIONAL ARCHITECT**  
 AP 987379  
 MATTHEW FRANKEL  
 STATE OF IDAHO  
 07.07.2014

AIA NCARB ASID

**ITD D4 STANLEY**  
 Mobile Home Unit  
 and Site Design  
 STANLEY, ID

PROJECT NAME: **OVERALL FLOOR PLANS**

SHEET TITLE:

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

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REVISION	DATE

CLIENT PROJ. NUMBER: \_\_\_\_\_

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: April 2024

SHEET **A100**

**FLEETWOOD HOMES, BROADMORE SERIES, MODEL-16763Y THE SPIRE**

**Standard Features**

- Bathroom Additional Specs: Framed bathroom mirrors / Towel bar & tissue holder
- Bathroom Cabinets: 36" height lavatory cabinet
- Bathroom Faucets: Dual handle faucets
- Bathroom Shower: 60" 3 pc. ABS tub/shower per plan in MbatH / 60" 3 pc. ABS tub/shower in Guest Bath
- Insulation (Ceiling): R-28
- Exterior Wall On Center: 16" O.C.
- Floor Decking: 19/32" T&G OSB floor decking
- Front Rear Eaves: 6" Eave all sides Multi section
- Side Wall Height: 8' flat ceiling
- Front Door: 36" In-swing front door w/deadbolt
- Rear Door: 34" Fiberglass out-swing rear door w/deadbolt
- Shingles: Class A fire rated limited lifetime architectural shingles
- Window Trim: 4" trim all windows / Painted shutters FDS & hitch end (multi section) / Painted shutters hitch end only (single section)
- Ceiling Texture: Textured ceilings (orange peel)
- Interior Doors: 2 Panel white interior doors / Residential style mortise door hinges (3)
- Kitchen Backsplash: Laminate backsplash
- Kitchen Drawer Type: Bank of drawers
- Kitchen Flooring: Vinyl flooring
- Kitchen Range: Type: 30" stainless steel Whirlpool free standing electric range, w/clock, window & timer
- Ceiling Fans: Wire S, brace for ceiling fan in living room
- Electrical Service: 200 Amp all electric service (gas optional)
- Shut Off Valves Throughout: Shut-off valve on toilets
- Water Shut Off Valves: Master water shut-off valve
- Window Decor: 2" Wood Faux blinds optional
- Bathroom Backsplash: Laminate backsplash
- Bathroom Fans: Exhaust fan
- Bathroom Flooring: Vinyl flooring
- Bathroom Sink: Acrylic sink
- Additional Specs: Black roof vents
- Endwall Eaves: No rear end wall eave on singlewides
- Exterior Wall Studs: 2" x 4" Exterior walls
- Insulation (Floors): R-22
- Roof Load: 30 lb. Roof load
- Insulation (Walls): R-11
- Exterior Lighting: Porch lights all exterior doors
- Roof Pitch: 3:12 Roof pitch
- Sliding: LP Smart Panel exterior siding
- Window Type: White waterfall window & door trim
- Carpet Grade: Factory select Livewire carpet (shipped loose on multi-wides) / 7/16" - 7# Carpet pad (shipped loose on multi-wides)
- Corner Wall Type: Factory select vinyl covered wall panels T/O
- Interior Lighting: LED can lights T/O
- Kitchen Cabinetry: MDF face frame & cabinet door / 30" overhead kitchen cabinets / Shelf & Board board above refrigerator / Wood ply drawer sides
- Kitchen Faucets: Dual handle chrome faucet
- Kitchen Range Hood: 30" power range hood with light
- Kitchen Refrigerator: 18 cu. ft. stainless steel Whirlpool frost free refrigerator
- Kitchen Sink: 7" Double cell stainless steel sink
- Hone Warranty Info: 1 Year structural warranty (see warranty manual for complete details)
- Furnace: Electric furnace
- Water Heater: 30 gallon electric water heater
- Exterior Outlets: GFI patio plug near rear door

**MHU SELECTION NOTES:**

- ALL MHU FINISH SELECTIONS, INTERIOR AND EXTERIOR, ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL VIA MHU SUBMITTAL. MHU SUBMITTAL SHOULD INCLUDE ALL STANDARD OPTION FOR FLEETWOOD HOMES, BROADMORE SERIES, MODEL-16763Y THE SPIRE TO INCLUDE:
  - FLOOR PLAN LAYOUT WITH TILE SHOWER BATH #1 OPTION
  - GAS OPTION WITH ELEC SERVICE
  - GAS FURNACE
  - GAS WATER HEATER
  - PAINTED SHUTTER MULTI SELECTION
  - 2" BLINDS
- PROPANE IS THE FUEL SOURCE FOR THE BUILDING, GAS APPLIANCES SELECTION WHERE AVAILABLE. COORD. w/ CIVIL DRAWING FOR TANK CONNECTION.
- ALL MHU SELECTIONS SHALL MEET MINIMUM SNOW LOAD OF 128 PSF AND MINIMUM WIND SPEED OF 115 MPH.

**CLAYTON HOMES, KARSTEN COLLECTION, MODEL-K1676H**

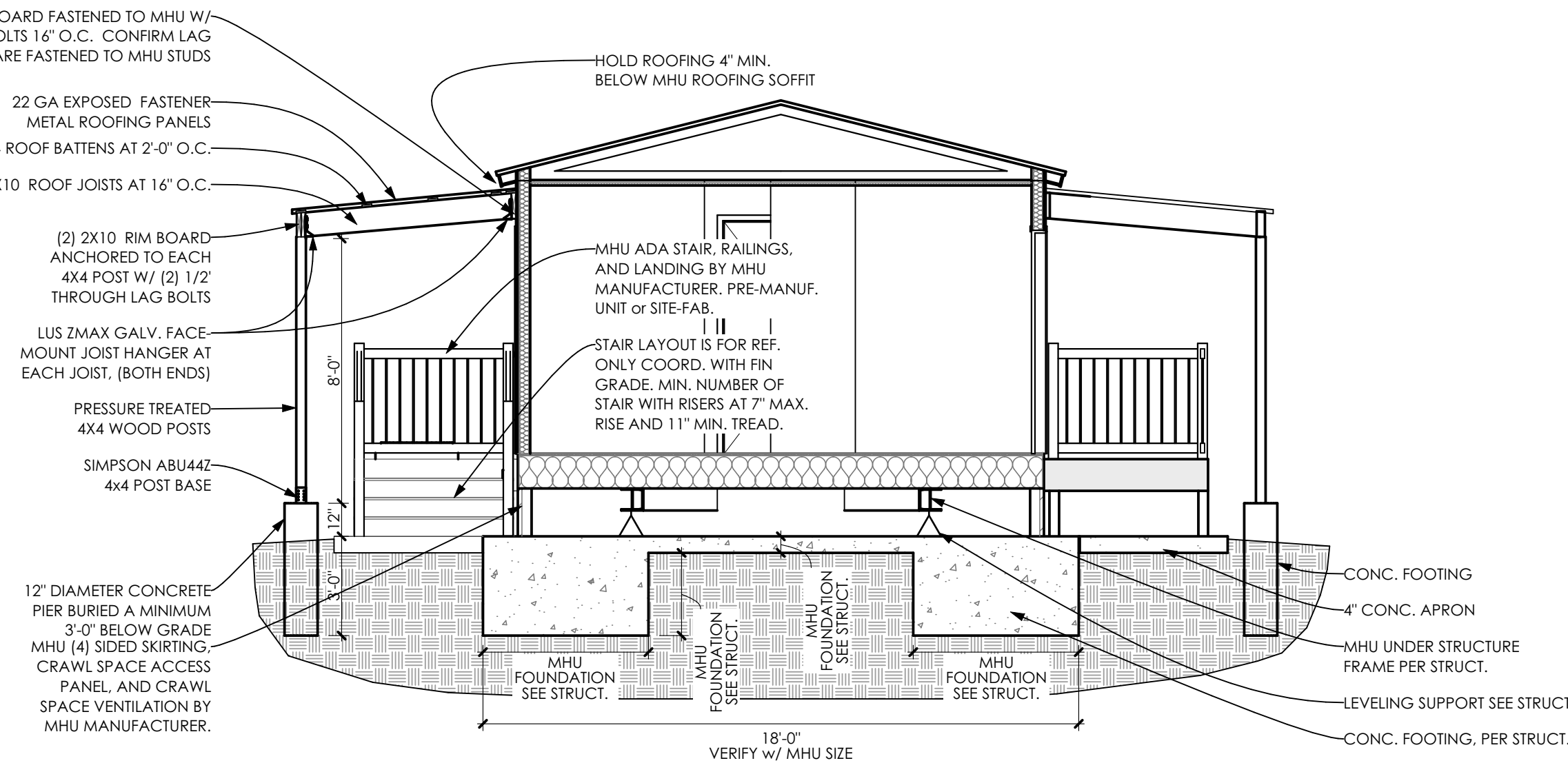
**Standard Features**

- Bathroom Additional Specs: Bathroom Towel Bars & Tissue Holders / Standard Window in Bath (Model Specific)
- Bathroom Sink: Rectangular Porcelain Bath Sinks
- Additional Specs: Knocker@ Exterior Locksets / Exterior GFI Receptacle at Front & Rear Doors / Exterior Hose Bibb
- Exterior Wall Studs: 2x4 Interior Walls
- Insulation (Floors): R22
- Front Rear Eaves: 12" Residential Eaves (6" Eaves for Singlewide Sidewalls)
- Interior Wall Studs: 2x4 Interior Walls
- Roof Truss: Engineered Trusses
- Insulation (Walls): R19
- Front Door: 36" 6-Panel In-Swing Fiberglass Front Door with Deadbolt, Knocker, & Viewer
- Rear Door: 36" 6-Panel In-Swing Fiberglass Rear Door with Deadbolt
- Shingles: CertainTeed® Landmark® Series Designer Architectural Shingles w/Pro-Rated Lifetime Warranty
- Interior Doors: Raised Panel Interior Passage Doors w/Mortised Hinges & Residential Door Stops
- Wall Finish: Single Color Paint for Walls & Ceilings (Low VOC Paint)
- Window Treatment: Cased & Trimmed Windows T/O (Excluding Transoms)
- Kitchen Cabinetry: European Frameless Component Cabinet System with 3" Construction / 30" Tall Overhead Cabinets / 36" Base Cabinet Height / Cityscape Overhead Cabinets Above Range/Fridge / 2.75" Cabinet Crown Molding
- Kitchen Lighting: Recessed LED Can Lighting in Kitchen & Dining Room
- Kitchen Refrigerator: Frigidaire 18CF Black or White Refrigerator w/Top Freezer
- Furnace: Carrier® SmartComfort™ High-Eff Gas or Electric Downflow Furnace
- Shut Off Valves Throughout: Master Water Shutoff Valve
- Washer/Dryer Hook Up: Prep for Electric Dryer and Washer
- Water Shut Off Valves: Water Shut-Off Valves T/O
- Roof Decking: 7/16" OSB Roof Decking
- Bathroom Lighting: Recessed LED Can Lights Above Sinks & Showers
- Bathroom Shower: 1 Piece 60" Fiberglass Shower in Master Bath w/Glass Door/Enclosure / 1 Piece 60" Tub/Shower Combo in Guest Baths
- Bathroom Toilet Type: Elongated Toilets
- Insulation (Ceiling): R23
- Exterior Wall On Center: 16" O.C.
- Floor Decking: 3/8" Interlocking Tongue and Groove OSB Floor Decking
- Floor Joists: 2x6 Floor Joists on 7' Wide & 8' 6" Wide Homes / 2x8 Floor Joists on 30' Wide & 15' 6" Wide Homes / Floor Joists 16" On Center
- Interior Wall On Center: 24" O.C.
- Roof Load: 20# Roof Load
- Side Wall Height: 8' 6" Sidelwall Height - Flat Ceilings
- Dormer: Standard Dormer Model Specific
- Exterior Lighting: Coach Light at Exterior Doors
- Roof Pitch: 3:12 Roof Pitch 27' Wide Homes / 3:12 Roof Pitch 15' 6" Wide Homes / 2.59:12 Roof Pitch 30' Wide Homes / 2.15:12 Roof Pitch 40' 6" Wide Homes
- Sliding: LP® Smart Side® Panel Sliding
- Window Type: Kinro Dual-Pane Low-E Vinyl Thermopane Windows
- Interior Walls: 1/2" American Drywall, Tape & Texture T/O w/Bullnose Rounded Corners, Orange Peel Texture
- Kitchen Backsplash: 4" Laminate Backsplash & Crescent Edge
- Kitchen Custom Options: Wilsonart® Laminate Countertops
- Kitchen Drawer Type: Solid Wood Cab Doors & Drawer Fronts
- Kitchen Faucets: Pfister® Brushed Nickel Metal Faucets
- Kitchen Range Type: Frigidaire Black or White Gas or Electric Coil Range (4-Burners)
- Kitchen Sink: White Acrylic 9" Deep Sink w/Sprayer
- Heat Duct Registers: Perimeter Floor Duct System (Central Floor Ducts on Single Section Homes)
- Thermostat: Ecobee 3 Pro Smart Thermostat
- Water Heater: Rheem® 40 Gallon Electric Water Heater
- Exterior Outlets: Exterior GFI Receptacle (2)

**MHU SELECTION NOTES:**

- ALL MHU FINISH SELECTIONS, INTERIOR AND EXTERIOR, ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL VIA MHU SUBMITTAL. MHU SUBMITTAL SHOULD INCLUDE ALL STANDARD OPTION FOR CLAYTON HOMES, KARSTEN COLLECTION, MODEL-K1676H.
- PROPANE IS THE FUEL SOURCE FOR THE BUILDING, GAS APPLIANCES SELECTION WHERE AVAILABLE. COORD. w/ CIVIL DRAWING FOR TANK CONNECTION.
- ALL MHU SELECTIONS SHALL MEET MINIMUM SNOW LOAD OF 128 PSF AND MINIMUM WIND SPEED OF 115 MPH.

**2**  
A101 **MHU STANDARD OPTIONS AND NOTES**  
SCALE: 1" = 1'-0"



**1**  
A101 **BUILDING SECTION @ CANOPY**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- VERIFY MHU FINAL SIZE PRIOR TO SLAB LAYOUT AND INSTALLATION.
- SEE PLUMBING, AND ELECTRICAL SHEET FOR ALL MHU ROUGH-IN AND HOOK-UP ITEMS.
- ALL LOCATIONS FOR STAIR CONC. APRONS, STAIRS, RAILINGS, AND LANDINGS WILL NEED TO BE FIELD VERIFIED PRIOR TO INSTALLATION BASED ON MHU SELECTION & LAYOUT.
- ALL LOCATIONS FOR CANOPY COLUMN FOUNDATIONS, CANOPY COLUMNS, CANOPY ROOF FRAMING, AND ASSOCIATED CANOPY ROOFING ITEMS WILL NEED TO BE FIELD VERIFIED PRIOR TO INSTALLATION BASED ON MHU SELECTION & LAYOUT.
- ALL MHU SELECTIONS SHALL MEET MINIMUM SNOW LOAD OF 128 PSF AND MINIMUM WIND SPEED OF 115 MPH.



**ITD D4 STANLEY**  
Mobile Home Unit  
and Site Design  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

**SECTION AND MHU INFO**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS or SPECIFICATIONS

REVISION DATE

CLIENT PROJ. NUMBER:

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: April 2024

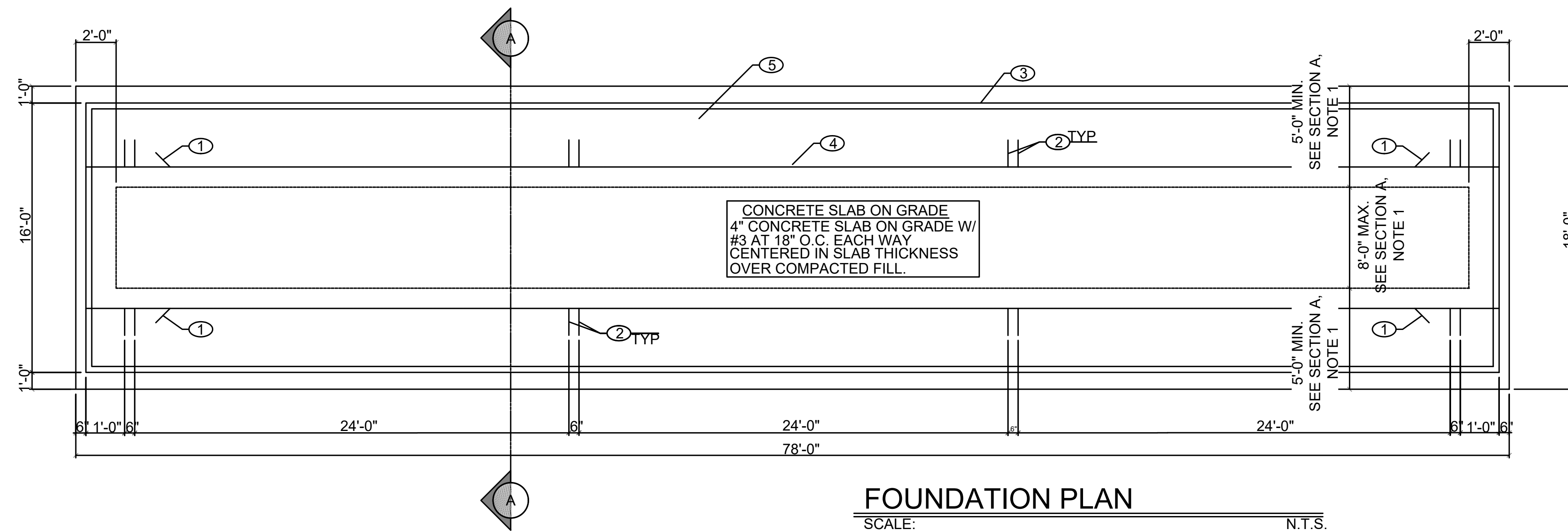
SHEET **A101**

**Myers Anderson**

Architecture • Interior Design • Historic Preservation

122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax (208) 232-3782

ASD  
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NCARB

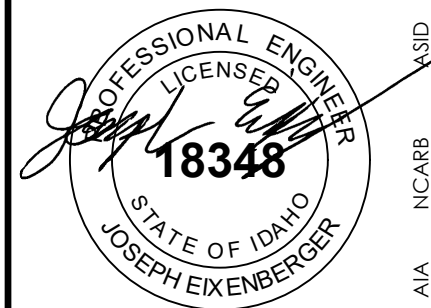


**FOUNDATION PLAN**

SCALE: N.T.S.

**FOUNDATION PLAN NOTES**

- A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS AND MANUFACTURER OF HOME.
- B. THE DEPTH OF FOOTING DIMENSION INDICATED ON THE PLAN IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK.
- C. STRUCTURE TO BE LEVELED AND MODULES FULLY SUPPORTED PRIOR TO THE INSTALLATION OF HOLD DOWNS, MODULAR UNITS W/OUTRIGGERS EXTENDING PAST TRANSPORT RAIL IN EXCESS OF 30 INCHES SHALL BE SUPPORTED ALONG THE PERIMETER AT NOT MORE THAN 4-0" O.C. SHIM AND BLOCK AS NECESSARY TO INTERFACE PIERS W/ FLOOR MEMBERS.
- D. LATERAL HOLD DOWNS SHALL BE TIE-DOWN ENGINEERING, INC. OR APPROVED EQUAL.
- E. ANCHOR SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE DRAWINGS, WET SET INTO FLOWABLE FILL. THE ANCHOR HAS A MIN. ALLOWABLE HOLDING FORCE OF 3,150 POUNDS (WORKING STRESS) HORIZONTAL & VERTICAL STABILIZER DEVICE REQUIRED AT EACH ANCHOR.
- F. FOR SIDEWALK AND LANDING LOCATION, SEE ARCHITECTURAL DRAWINGS.
- G. THE SOIL DESIGN VALUE OF 1500 PSF PER IBC PRESCRIPTIVE VALUES, CONTINGENT THAT THE SOIL ON THE SITE PREDOMINANTLY CONSISTS OF ONE OF THE FOLLOWING: SANDY GRAVEL OR GRAVEL (GW OR GP), SANDY (SW AND SP), SILTY SAND (SM), CLAYEY SAND (SC), SILTY GRAVEL (GM), OR CLAYEY GRAVEL (GC). THESE SOIL CLASSIFICATIONS CAN BE FOUND IN TABLE 1806.2 OF CHAPTER 18 OF THE IBC. VERIFICATION OF SOIL CLASSIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- H. ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERING FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% DRY DENSITY (STANDARD PROCTOR). GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
- I. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698.



1-31-24

ITD MOBILE HOME  
UNIT AND SITE DESIGN  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

FOUNDATION PLAN

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

SHEET S1.0

**PLAN KEYNOTES**

- 1. LONGITUDINAL HOLD DOWN ANCHOR, SEE DETAIL 1 OF S1.1
- 2. TRANSVERSE HOLD DOWN ANCHOR, SEE DETAIL 2 OF S1.1
- 3. PERIMETER SKIRT WALL BY OTHERS, SEE DETAIL 3 OF S1.1
- 4. MODULAR CHASSIS/FRAME BEAM BY MOBILE HOME MANUFACTURER
- 5. CONCRETE FOOTING, SEE DETAILS
- 6. MODULAR BUILDING BY MOBILE HOME MANUFACTURER

**GENERAL NOTES:**

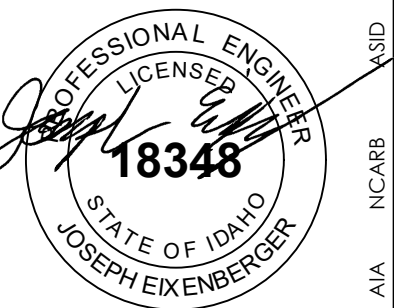
- 1. DESIGN IS BASED ON A SINGLE 16' WIDE MANUFACTURED HOME. CONTRACTOR TO COORDINATE WITH THE MANUFACTURER AND INFORM THE ENGINEER FOR A REDESIGN IF ANY OF THE FOLLOWING IS UNTRUE:
  - A. WEIGHT OF THE MANUFACTURED HOME IS BETWEEN 305 LBS AND 493.5 LBS PER LINEAR FOOT. THE DISTRIBUTED WEIGHT SHALL BE DETERMINED BY TAKING THE TOTAL WEIGHT OF THE HOME, INCLUDING MECHANICAL EQUIPMENT, AND DIVIDING IT BY THE LENGTH OF THE HOME.
  - B. THE MODULAR STEEL CHASSIS OR FRAME MEMBERS ARE AT LEAST 8 FEET APART CENTER-TO-CENTER.

**CONCRETE:**

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOUNDATION	4500 PSI	0.45	5.5% ± 1%

- 2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33.
- 3. LAP SPLICES SHALL BE 12" FOR #3 BAR AND 24" FOR #5 BAR.
- 4. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
- 5. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
- 6. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301, AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.
- 7. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
- 8. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.
- 9. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
- 10. LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.



1-31-24

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
STANLEY, ID

PROJECT NAME

SHEET TITLE

**STRUCTURAL DETAILS**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

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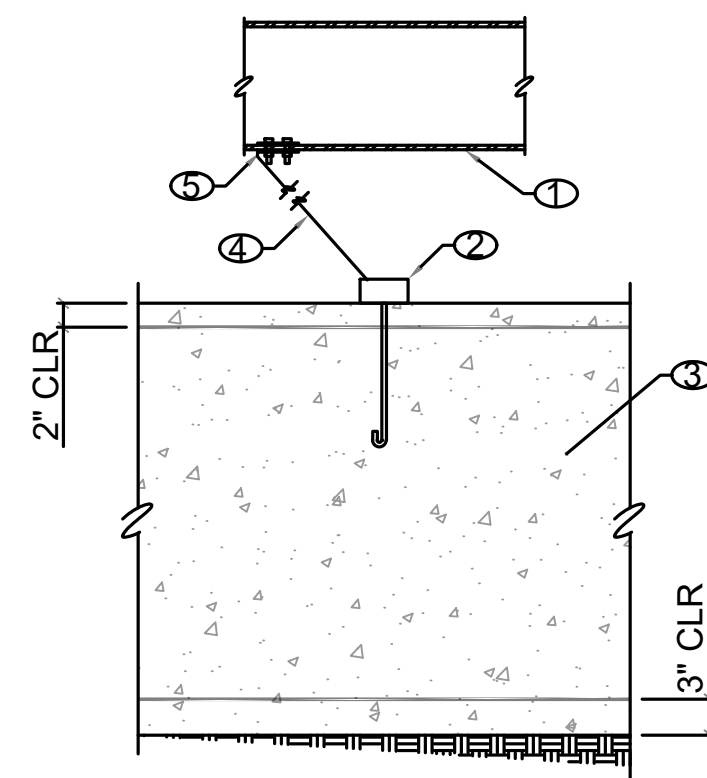
REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

SHEET **S1.1**



**KEYNOTES:**

- MODULAR CHASSIS/FRAME
- TYP. M1J2-12 CONC. J ANCHOR BY TIE-DOWN ENGINEERING, SEE FOUNDATION PLAN
- CONCRETE FOOTING W/ #5 AT 10" O.C. LONGITUDINAL AT THE TOP AND BOTTOM OF FOOTING
- TYPICAL STRAP

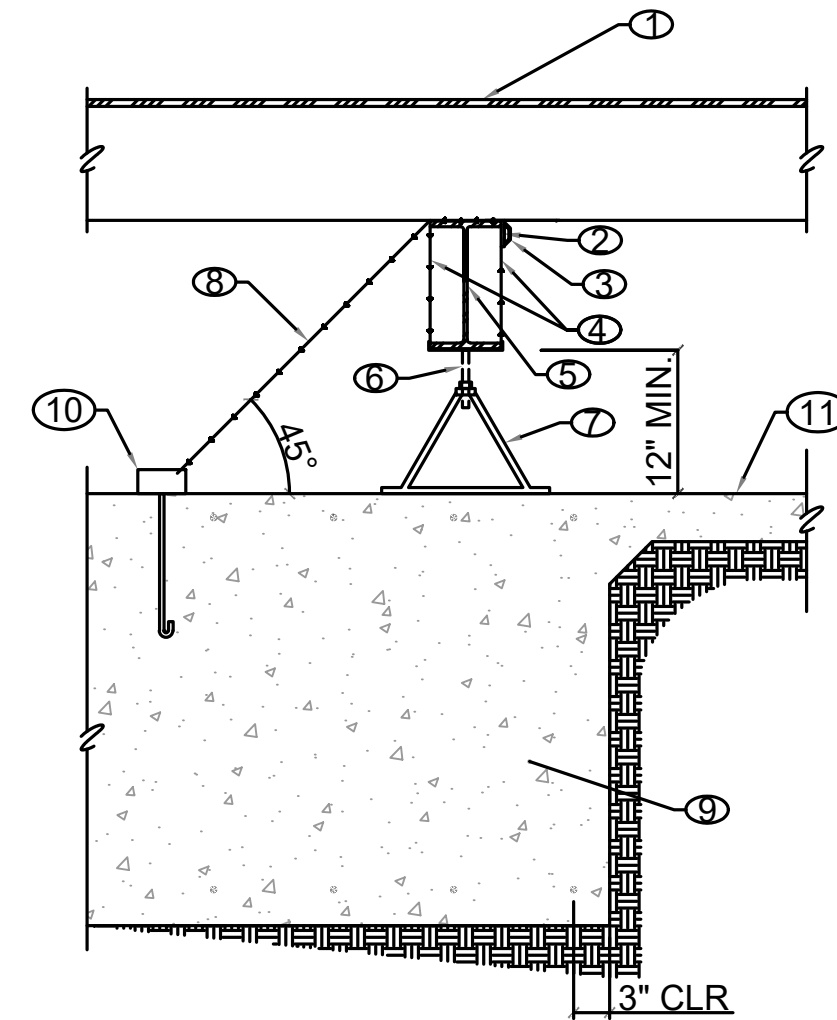
**NOTE:**

- VERTICAL AND HORIZONTAL STABILIZER DEVICE REQUIRED AT EACH ANCHOR.

1  
S1.1

LONGITUDINAL HOLD DOWN

N.T.S.



**KEYNOTES:**

- MODULAR FLOOR JOIST
- TIE DOWN BUCKLE OPPOSITE SIDE OF HOLD DOWN ANCHOR
- METAL HOLD DOWN STRAP THROUGH BUCKLE TWO TIMES
- METAL HOLD DOWN STRAP AROUND CHASSIS/FRAME
- MODULAR STEEL CHASSIS/FRAME
- MODULAR LEVELING SUPPORT JACK BEYOND
- MODULAR LEVELING SUPPORT JACKS; MIN. CAPACITY 6,000 LBS WORKING LOAD 1'-0" FROM THE END @ 4'-0" O.C. MAX
- METAL HOLD DOWN STRAP DOWN TO HOLD ANCHOR
- CONCRETE FOOTING W/ #5 AT 10" O.C. LONGITUDINAL AT THE TOP AND BOTTOM OF FOOTING
- TYP. M1J2-12 CONC. J ANCHOR BY TIE-DOWN ENGINEERING, SEE FOUNDATION PLAN
- CONCRETE SLAB ON GRADE, SEE PLAN

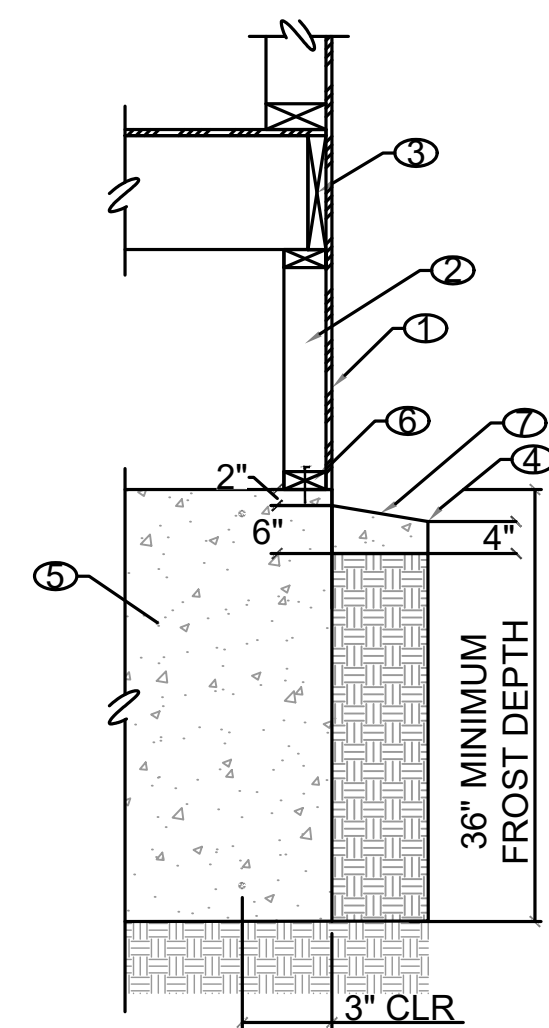
**NOTE:**

- VERTICAL AND HORIZONTAL STABILIZER DEVICE REQUIRED AT EACH ANCHOR.

2  
S1.1

BUCKLE-IN STRAP

N.T.S.



**KEYNOTES:**

- INSULATED WOOD SKIRTING, BY MOBILE HOME MANUFACTURER
- WALL FRAMING BY OTHERS (MINIMUM: 2X4 DF-L #2 SOLID FRAMING @ EA. JAMB STUD OF THE EXTERIOR MODULAR BUILDING FOR ALL OPENINGS AT 16" O.C. REMAINDER)
- MODULAR BUILDING FRAMING BY MOBILE HOME MANUFACTURER
- FINISH GRADE PER CIVIL
- CONCRETE FOOTING W/ #5 AT 10" O.C. LONGITUDINAL AT THE TOP AND BOTTOM OF FOOTING
- CONT. 2x PT SOLE PLATE W/ ATTACHMENT BY MOBILE HOME MANUFACTURER
- SLAB DRIP EDGE

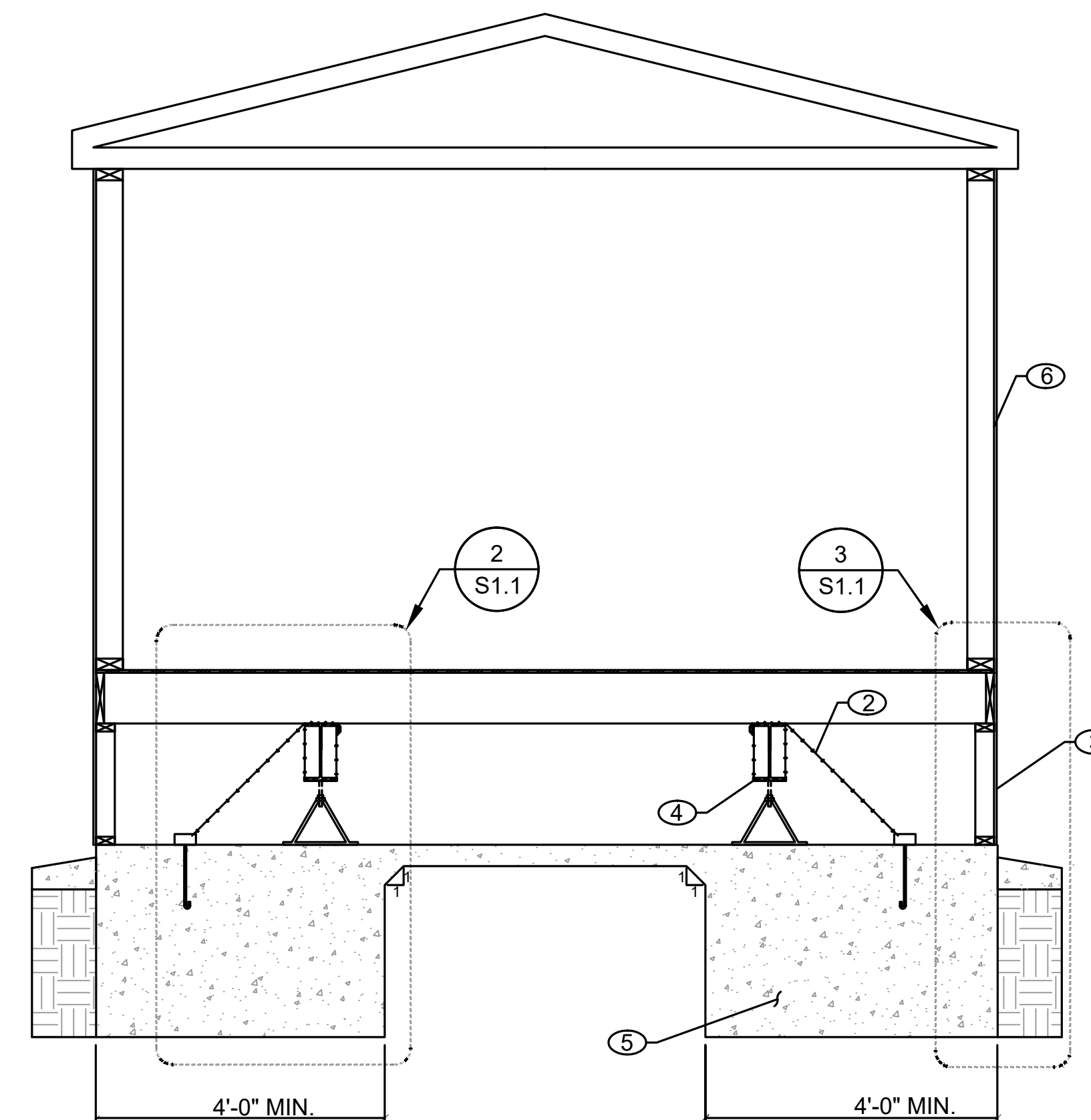
**NOTE:**

- PRESERVATIVE TREAT AND WATERPROOF (PER ARCH) ANY WOOD FRAMING WITHIN 8" OF FINISH GRADE

3  
S1.1

SKIRT WALL AT FOUNDATION

N.T.S.



A

FOUNDATION SECTION

N.T.S.

**NOTE:**

- THE MINIMUM WIDTH OF THE CONCRETE FOOTING IS 4 FEET. A LARGER FOOTING MAY BE REQUIRED DEPENDING ON THE SPACING OF THE CHASSIS OR FRAME, THE DEPTH OF THE FRAMING, AND THE HEIGHT OF THE SUPPORT. CONTRACTOR TO COORDINATE WITH MANUFACTURER AND ADJUST THE WIDTH SUCH THAT THE ANCHOR IS EMBEDDED A MINIMUM OF 6" FROM THE EDGE AND THE SUPPORT AND SKIRT WALL ARE FULLY SUPPORTED BY THE FOUNDATION.

**SECTION 15010: BASIC MECHANICAL REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 RELATED DOCUMENTS**

- A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION-1 SPECIFICATION SECTIONS, APPLY TO THE WORK OF THIS SECTION.

**1.02 SUMMARY**

- A. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR ALL MECHANICAL WORK AS SPECIFIED AND INDICATED, IN ACCORDANCE WITH PROVISIONS OF CONTRACT DOCUMENTS. COMPLETELY COORDINATE WITH WORK OF ALL OTHER TRADES. ALTHOUGH SUCH WORK IS NOT SPECIFICALLY INDICATED, FURNISH AND INSTALL ALL SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION.
- B. FURNISH AND PROVIDE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES AND OTHER COSTS INCURRED IN CONNECTION WITH THE WORK. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR THE WORK.
- C. DRAWINGS, USE AND INTERPRETATION:
  - 1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT, EXCEPT -WHEN SPECIFICALLY DIMENSIONED OR DETAILED.
  - 2. FOR EXACT LOCATIONS OF BUILDING ELEMENTS, REFER TO DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS.
  - 3. FIELD MEASUREMENTS TAKE PRECEDENCE OVER DIMENSIONED DRAWINGS.
  - 4. PIPING AND DUCTWORK PLANS ARE INTENDED TO SHOW SIZE, CAPACITY, APPROXIMATE LOCATION, DIRECTION AND GENERAL RELATIONSHIP OF ONE WORK PHASE TO ANOTHER, BUT NOT THE EXACT DETAIL OR ARRANGEMENT.
  - 5. FIELD VERIFY LOCATIONS AND ARRANGEMENT OF ALL EXISTING SYSTEMS AND EQUIPMENT.

**1.03 QUALITY ASSURANCE**

- A. PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

**1.04 JOB CONDITIONS**

- A. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND SERVICES AS POSSIBLE. WORK WHICH WILL CAUSE INTERFERENCE OR INTERRUPTION SHALL BE SCHEDULED IN ADVANCE WITH CONSTRUCTION MANAGER.
- B. EXAMINE CONTRACT DOCUMENTS TO DETERMINE HOW OTHER WORK WILL AFFECT EXECUTION OF MECHANICAL WORK.
- C. DETERMINE AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES.
- D. ESTABLISH LINES AND LEVELS FOR EACH SYSTEM AND COORDINATE WITH OTHER SYSTEMS TO PREVENT CONFLICTS AND MAINTAIN PROPER CLEARANCES AND ACCESSIBILITY.

**PART 2 - PRODUCTS**

**2.01 GENERAL**

- A. MATERIALS FOR MECHANICAL WORK: USE ONLY PRIME QUALITY, NEW MATERIALS, APPARATUS AND EQUIPMENT.
  - 1. STANDARD PRODUCTS OF MANUFACTURER SPECIFIED.
  - 2. WHERE MORE THAN ONE UNIT IS REQUIRED ON ANY ITEM, FURNISH BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE.
  - 3. INSTALL SAME MANUFACTURER, EXCEPT AS OTHERWISE SPECIFIED.
  - 4. INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. FURNISH EQUIPMENT THAT WILL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION THAT IS OBJECTIONABLE IN THE OPINION OF THE ARCHITECT/ENGINEER. VIBRATION OR NOISE CONSIDERED OBJECTIONABLE WILL BE CORRECTED BY THE SUBCONTRACTOR AT HIS EXPENSE.
- C. FURNISH AND INSTALL ALL NECESSARY FOUNDATIONS, SUPPORTS, PADS, BASES AND PIERS REQUIRED FOR ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- D. PROVIDE ALL REQUIRED FIRE STOPPING AT PIPING AND DUCT PENETRATIONS OF FIRE RATED WALL, FLOORS, CEILINGS AND ROOFS.

**2.02 MATERIALS AND EQUIPMENT**

- A. DELIVER MATERIALS OR EQUIPMENT TO SITE IN THE MANUFACTURER'S ORIGINAL UNOPENED, LABELED CONTAINERS AND ADEQUATELY PROTECT AGAINST MOISTURE, TAMPING OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. DO NOT DELIVER TO SITE BEFORE ITEMS ARE READY FOR INSTALLATION.
- B. FACTORY APPLIED FINISHES: REPAIR AND/OR REFINISH WORK DAMAGED BY THE WORK OF THIS DIVISION, TO THE ENGINEER'S SATISFACTION. OBTAIN FINISHING MATERIALS FROM EQUIPMENT MANUFACTURER.
- C. COMPLY WITH THE REQUIREMENTS FOR SUBSTITUTIONS SPECIFIED ELSEWHERE IN THIS SECTION.

**2.03 MANUFACTURERS**

- A. QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN MANUFACTURE OF PRODUCTS SPECIFIED, OF TYPES AND CAPACITIES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS, UNLESS OTHERWISE SPECIFIED.
- B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS SPECIFIED, PROVIDE MATERIAL OR PRODUCT FROM ONE OF THE MANUFACTURERS LISTED FOR EACH ITEM.

**2.04 SUBMITTALS**

- A. WITHIN THIRTY DAYS AFTER AWARD OF CONTRACT, PROVIDE SIX COPIES OF A COMPLETE LIST OF ALL MATERIALS AND EQUIPMENT PROPOSED FOR THIS PROJECT.
- B. INCLUDE MAKE, TYPE, MANUFACTURER'S NAME, TRADE DESIGNATION, OPERATING WEIGHT AND LOCATION OF THE CENTER OF GRAVITY (WHERE APPLICABLE) OF EACH ITEM OF EQUIPMENT IN MANUFACTURER'S CUT SHEET.
- C. APPROVAL OF SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF DEVIATIONS FROM THE PLANS OR SPECIFICATIONS, UNLESS HE HAS, IN WRITING, CALLED THE ARCHITECTS/ENGINEERS ATTENTION TO DEVIATIONS AT THE TIME OF SUBMISSION, AND OBTAINED HIS WRITTEN APPROVAL. APPROVAL OF SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN SHOP DRAWINGS OR LITERATURE.
- D. EQUIPMENT REQUIRING SUBMITTALS:
  - 1. PLUMBING FIXTURES.
  - 2. HVAC EQUIPMENT
  - 3. GRILLES, REGISTERS, DIFFUSERS.

**2.05 SUBSTITUTION**

- A. GENERAL:
  - 1. MODEL, SIZE AND SCHEDULED DATA REFER TO THE MANUFACTURER INDICATED IN EQUIPMENT SCHEDULES.
  - 2. MANUFACTURERS NAMED IN THIS SPECIFICATION ARE ACCEPTABLE, BUT THEIR EQUIPMENT, MATERIALS AND/OR METHODS ARE SUBJECT TO THE ENGINEER'S REVIEW AND ACCEPTANCE.
  - 3. WHERE "OR EQUAL" IS MENTIONED AND MANUFACTURER, MATERIAL AND/OR METHOD OTHER THAN SPECIFIED ARE SUBMITTED FOR APPROVAL, INCLUDE PROOF OF EQUALITY. THE BURDEN OF PROOF AS TO THE EQUALITY OF ANY PROPOSED SUBSTITUTE MANUFACTURER, MATERIAL OR METHOD SHALL REST UPON THE CONTRACTOR.
  - 4. THE ENGINEER'S DECISION SHALL BE FINAL.
- B. REQUESTS FOR SUBSTITUTION REVIEW AND ACCEPTANCE SHALL BE ACCOMPLISHED BY TABLE OF COMPARISON LISTING PERTINENT FEATURES OF BOTH SPECIFIED AND PROPOSED MATERIALS, SUCH AS MATERIAL OF CONSTRUCTION, REPLACEMENT OR MAINTENANCE ACCESS, MOTOR TYPE, HORSEPOWER, VOLTAGE, PHASE, SERVICE FACTOR. REVIEW OF PROPOSED SUBSTITUTIONS WILL NOT BE MADE UNTIL RECEIPT OF SATISFACTORY COMPARISON TABULATION.
- C. SUBMITTAL OF SUBSTITUTIONS SHALL BE LIMITED TO ONE PROPOSAL FOR EACH TYPE OR KIND OF ITEM, UNLESS OTHERWISE PERMITTED BY ENGINEER. IF FIRST PROPOSED PRODUCT SUBMITTAL IS REJECTED, CONTRACTOR SHALL THEN SUBMIT THE FIRST-NAMED OR SCHEDULED PRODUCT.

**PART 3 - EXECUTION**

**3.01 GENERAL**

- A. COORDINATE ALL WORK WITH THE VARIOUS TRADES INVOLVED TO PROVIDE A COMPLETE AND SATISFACTORY INSTALLATION.
- C. WHEN CHANGES IN LOCATION OF ANY WORK ARE REQUIRED, OBTAIN APPROVAL OF ENGINEER BEFORE MAKING CHANGE.
- D. DO NOT CHANGE INDICATED SIZES WITHOUT APPROVAL OF ENGINEER.
- E. PROVIDE ALL NECESSARY OFFSETS AND CROSSOVERS IN PIPING AND DUCTWORK, WHETHER INDICATED OR NOT.
- F. INSTALL PIPING PARALLEL TO WALLS AND VERTICALLY PLUMB.
- G. EXAMINE AREAS AND CONDITIONS UNDER WHICH MECHANICAL SYSTEM MATERIALS AND PRODUCTS ARE TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER.

**3.02 ELECTRICAL**

- A. ELECTRIC MOTORS REQUIRED FOR EQUIPMENT SPECIFIED IN THIS SECTION SHALL BE PROVIDED AND INSTALLED BY THIS SUBCONTRACTOR. MOTOR STARTERS, DISCONNECTS, RELAYS, PILOT LIGHTS, ETC. ARE, IN GENERAL, TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. STARTERS, RELAYS, CONTROLS, ETC. WHICH IS FACTORY ASSEMBLED INTO PACKAGED EQUIPMENT SHALL BE FURNISHED BY THIS SUBCONTRACTOR UNDER THIS SECTION OF THE SPECIFICATIONS.
- B. ALL MOTORS SHALL BE PROVIDED WITH ADEQUATE STARTING AND PROTECTIVE EQUIPMENT AS SPECIFIED OR REQUIRED. MOTOR CAPACITY SHALL BE SUFFICIENT TO OPERATE DRIVEN DEVICE UNDER ALL CONDITIONS OF OPERATION AND LOAD WITHOUT OVERLOAD. MINIMUM HORSEPOWER SHALL BE AS SPECIFIED.

**3.03 EXCAVATING, TRENCHING, AND BACKFILLING**

- A. GENERAL: LAY PIPE TO REQUIRED LINES AND GRADES. PLACE FITTINGS AND VALVES AT REQUIRED LOCATIONS AND WITH JOINTS CENTERED, SPIGOTS HOME, AND VALVE STEMS PLUMB.
  - 1. SUBSURFACE EXPLORATIONS: WHENEVER NECESSARY TO DETERMINE LOCATION OF EXISTING UNDERGROUND UTILITY STRUCTURES, EXAMINE AVAILABLE RECORDS AND MAKE EXPLORATIONS AND EXCAVATIONS NECESSARY TO DETERMINE UTILITY LOCATIONS.
  - 2. OBSTRUCTIONS CAUSED BY OTHER UTILITY STRUCTURES: WHERE GRADES OR ALIGNMENT OF PIPE IS OBSTRUCTED BY EXISTING UTILITY STRUCTURES SUCH AS CONDUITS, DUCTS, PIPES, BRANCH CONNECTIONS TO MAIN SEWERS, OR MAIN DRAINS, PERMANENTLY SUPPORT, RELOCATE, REMOVE, OR RECONSTRUCT OBSTRUCTION.
  - 3. PROTECTING UNDERGROUND AND SURFACE STRUCTURES: PROVIDE TEMPORARY SUPPORT AND ADEQUATE PROTECTION AND MAINTENANCE OF UNDERGROUND AND SURFACE UTILITY STRUCTURES, DRAINS, SEWERS, AND OTHER OBSTRUCTIONS ENCOUNTERED IN PROGRESS OF THE WORK. PROTECT POLES, FENCES, TREES, AND OTHER PROPERTY UNLESS THEIR REMOVAL IS AUTHORIZED. SATISFACTORILY RESTORE ANY PROPERTY DAMAGED.
  - 4. DEVIATIONS: MAKE NO DEVIATION FROM REQUIRED LINE OR GRADE WITHOUT WRITTEN PERMISSION.

**3.04 CUTTING AND PATCHING**

- A. PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL THE WORK SPECIFIED IN THIS SECTION.
  - 1. PATCHING SHALL MATCH ADJACENT SURFACES.
  - 2. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER.
  - 3. LOCATE OPENINGS AND SLEEVES TO PERMIT NEAT INSTALLATION OF PIPING, DUCTWORK AND EQUIPMENT.

**3.05 INSTALLATION OF EQUIPMENT**

- A. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. PROVIDE ALL NECESSARY ANCHORING DEVICES AND SUPPORTS.
  - 1. USE STRUCTURAL SUPPORTS SUITABLE FOR EQUIPMENT, OR AS INDICATED.
  - 2. CHECK LOADINGS AND DIMENSIONS OF EQUIPMENT WITH SHOP DRAWINGS.
  - 3. DO NOT CUT OR WELD TO BUILDING STRUCTURAL MEMBERS, UNLESS SPECIFICALLY INDICATED OTHERWISE.
  - 4. PROVIDE ALL EQUIPMENT SUPPORTS NOT DETAILED ON ARCHITECTURAL AND MECHANICAL DRAWINGS.
- C. VERIFY THAT EQUIPMENT WILL FIT SUPPORT LAYOUTS INDICATED.
  - 1. WHERE SUBSTITUTE EQUIPMENT IS USED, REVISE INDICATED SUPPORTS TO FIT.
  - 2. COORDINATE SIZE AND LOCATION OF ROOF PENETRATIONS AND WALL OPENINGS WITH WORK OF OTHER SECTIONS.
- D. INSTALL RAIN HOODS AND METAL COUNTER FLASHINGS AS INDICATED AND TO MAKE ALL PENETRATIONS OF MECHANICAL WORK THROUGH WALLS AND ROOFS, WATER AND WEATHER-TIGHT. FURNISH ALL CLAMPS, WATERPROOFING MATERIAL AND LABOR NECESSARY.
- E. INSTALL EQUIPMENT TO PERMIT EASY ACCESS FOR NORMAL MAINTENANCE.
  - 1. MAINTAIN EASY ACCESS TO FILTERS, MOTORS, DRIVES, VALVES, ETC.
  - 2. MINOR CHANGES FROM THE DRAWINGS MAY BE MADE, WITH PRIOR APPROVAL, TO ALLOW FOR BETTER ACCESSIBILITY.
- F. IN MECHANICAL AREAS, COORDINATE LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, ETC., WITH LOCATIONS OF EQUIPMENT AND HOUSEKEEPING PADS. LOCATE DRAINS TO PROPERLY SERVE EQUIPMENT AND TO RESULT IN ORDERLY ROUTING OF DRAIN PIPING, WHILE MINIMIZING TRIPPING HAZARDS, ETC.

**3.06 INSTALLATION OF EQUIPMENT FURNISHED BY OWNER OR OTHER DIVISION**

- A. RECEIVE, UN-CRATE, INSPECT, MOVE IN PLACE AND INSTALL ANY OWNER SUPPLIED EQUIPMENT.
- B. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING MECHANICAL SERVICES.
- C. INSTALL ALL FITTINGS, VALVES, AND OTHER ITEMS FURNISHED AS INTEGRAL PART OF EQUIPMENT, BUT SHIPPED LOOSE.

**3.07 FIELD QUALITY CONTROL**

- A. PERFORM INDICATED TESTS TO DEMONSTRATE WORKMANSHIP, OPERATION, AND PERFORMANCE.
  - 1. CONDUCT TESTS IN PRESENCE OF INSPECTORS OF AGENCIES HAVING JURISDICTION, AS REQUIRED.
  - 2. FURNISH ALL LUBRICATING MATERIALS REQUIRED FOR TEST.
- B. REPAIR OR REPLACE EQUIPMENT AND SYSTEMS FOUND INOPERATIVE OR DEFECTIVE AND RE-TEST.
  - 1. IF EQUIPMENT OR SYSTEM FAILS RE-TEST, REPLACE IT WITH PRODUCTS WHICH CONFORM WITH CONTRACT DOCUMENTS.
  - 2. CONTINUE REMEDIAL MEASURES AND RE-TESTS UNTIL SATISFACTORY RESULTS ARE OBTAINED.

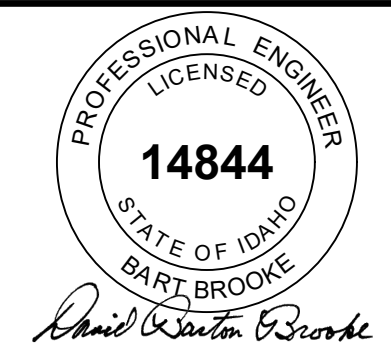
**3.08 ADJUST AND CLEAN**

- A. INSPECT ALL EQUIPMENT AND PUT IN GOOD WORKING ORDER.
- B. CLEAN ALL EXPOSED AND CONCEALED ITEMS:
  - 1. CLEAN FLOOR DRAINS, CLEANOUTS, AND PLUMBING FIXTURES.
  - 2. CLEAN SPECIALTIES SUCH AS TRAPS AND STRAINERS.
- C. EQUIPMENT AND MATERIALS: REMOVE FOREIGN MATERIALS INCLUDING DIRT, GREASE, SPLASHED PAINT, AND PLASTER, ETC. RESTORE TO ORIGINAL CONDITION AND FINISH DAMAGED ITEMS.
- D. DOMESTIC WATER SYSTEMS:
  - 1. STERILIZATION: AFTER ABOVE FLUSHING, DRAINING, AND REFILLING, STERILIZE DOMESTIC WATER SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF PUBLIC HEALTH AGENCY HAVING JURISDICTION. IF HEALTH DEPT. DOES NOT HAVE SPECIFIC REQUIREMENTS, USE FOLLOWING ALTERNATIVE.
    - a. ALTERNATIVE PROCEDURE: STERILIZE DOMESTIC WATER SYSTEMS WITH 4% CHLORINE SOLUTION INJECTED INTO SYSTEM TO CONCENTRATION OF 50 PARTS PER MILLION AND ALLOW TO STAND FOR 24 HOURS. AFTER THIS PERIOD, PURGE THROUGHOUT ENTIRE STRUCTURE AT OUTLETS; REDUCE SYSTEM CHLORINE CONTENT TO LESS THAN 1 PART PER MILLION.
    - 2. WARNING SIGNS: PROVIDE SIGNS AT OUTLETS DURING CHLORINATION.
- E. GAS: AFTER TESTING OF NATURAL GAS OR PROPANE SYSTEM, AND BEFORE ANY GAS OR PROPANE IS PUT INTO LINE, BLOW OUT ENTIRE SYSTEM OF PIPING TO REMOVE SCALE AND DIRT; PURGE AIR BY FILLING SYSTEM WITH GAS.
- F. ADJUSTING: ADJUST EQUIPMENT AND SYSTEM COMPONENTS AS INDICATED OR AS OTHERWISE REQUIRED TO RESULT IN INTENDED SYSTEM OPERATION. THEREAFTER, AS A RESULT OF SYSTEM OPERATION, OR AS DIRECTED, MAKE READJUSTMENTS AS NECESSARY TO REFINE PERFORMANCE AND TO EFFECT COMPLETE SYSTEM TUNEUP.



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1-31-24

ITD MOBILE HOME UNIT AND SITE DESIGN  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

BASIC MECHANICAL REQUIREMENTS SPECIFICATION SECTION 15010

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

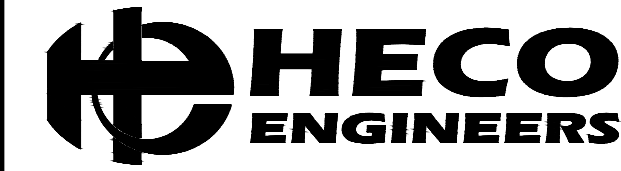
REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

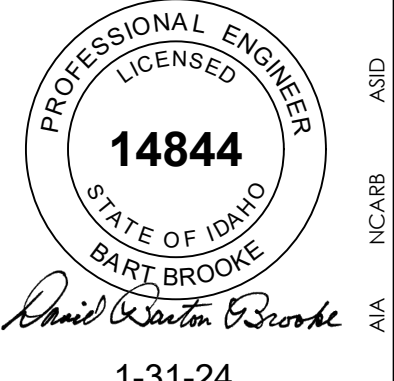
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SHEET MO.0



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SHEET ISSUED DATE: JANUARY 2024

SHEET **MO.1**

**3.09 TESTING**

- A. PIPING:
  1. ALL PLUMBING PIPING SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNIFORM PLUMBING CODE, LATEST EDITION. OTHER PIPING SYSTEMS SHALL BE TESTED TO 1.5 TIMES THE OPERATING PRESSURE, FOR A MINIMUM PERIOD OF TWO HOURS. IF THE TEST PRESSURES FALLS MORE THAT 5 PERCENT DURING THE TEST PERIOD, THE LEAK SHALL BE LOCATED, REPAIRED, AND THE TEST REPEATED.
  2. TEST THERMOMETERS, PRESSURE GAGES, AND WATER METERS FOR ACCURATE INDICATION; AUTOMATIC WATER FEEDERS, AIR VENTS, TRAP PRIMERS, VACUUM BREAKERS, AND OTHER SPECIALTIES FOR PROPER PERFORMANCE.
- B. SYSTEMS:
  1. ALL SYSTEMS, INCLUDING HEATING, VENTILATING, AIR CONDITIONING, AND PLUMBING SYSTEMS, SHALL BE TESTED AT THE COMPLETION OF THE BUILDING TO ESTABLISH THE SYSTEMS OPERATE AS SPECIFIED AND REQUIRED. TESTING SHALL BE PERFORMED AFTER AIR AND WATER BALANCING IS COMPLETED.
  2. ALL CONTROLS SHALL BE CALIBRATED ACCURATELY AND ALL EQUIPMENT SHALL BE ADJUSTED FOR SATISFACTORY OPERATION. EXCESSIVE VIBRATION OR NOISE FROM ANY SYSTEM SHALL BE CORRECTED.
  3. THE AIR CONDITIONING SYSTEM SHALL BE TESTED FOR SATISFACTORY OPERATION WHEN THE OUTSIDE AIR TEMPERATURE REACHES 60 DEGREES F. OR WARMER. ALL OTHER SYSTEMS SHALL BE TESTED AT BUILDING COMPLETION.
  4. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ARCHITECT/ENGINEER OR HIS REPRESENTATIVE.
- C. HANGERS AND SUPPORTS:
  1. WITH SYSTEMS IN NORMAL OPERATION, TEST HANGERS, SUPPORTS AND RODS TO INSURE THEY ARE PLUMB AND SUPPORTING PROPER SHARE OF LOAD. ADDITIONALLY SUPPORT SYSTEMS AND EQUIPMENT THAT SWAY, CRAWL, OR VIBRATE.
- D. OTHER MATERIALS AND EQUIPMENT:
  1. TEST AS SPECIFIED; AS RECOMMENDED BY EQUIPMENT MANUFACTURER; AND AS OTHERWISE NECESSARY OR DIRECTED TO ASSURE THEY ARE COMPLETE, OPERABLE, AND READY FOR USE.

**3.10 BALANCING**

- A. PRIOR TO FINAL ACCEPTANCE BY THE OWNERS, ALL AIR SYSTEMS IN THE BUILDING SHALL BE BALANCED TO DELIVER THE QUANTITIES AS SPECIFIED OR DIRECTED. THE AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY SPECIALIZING IN BALANCING.
- B. TEST PROCEDURES:
  1. EXAMINE INSTALLED WORK AND CONDITIONS UNDER WHICH TESTING IS TO BE DONE TO ENSURE THAT WORK HAS BEEN COMPLETED, CLEANED, AND IS OPERABLE. DO NOT PROCEED WITH TESTING, ADJUSTING AND BALANCING (TAB) WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO TESTER.
  2. TEST, ADJUST AND BALANCE ENVIRONMENTAL SYSTEMS AND COMPONENTS, AS INDICATED, IN ACCORDANCE WITH PROCEDURES OUTLINED IN APPLICABLE STANDARDS.
  3. TEST, ADJUST AND BALANCE SYSTEM DURING SUMMER SEASON FOR AIR CONDITIONING SYSTEMS AND DURING WINTER SEASON FOR HEATING SYSTEMS, INCLUDING AT LEAST PERIOD OF OPERATION AT OUTSIDE CONDITIONS WITHIN 5 DEGREES F WET BULB TEMPERATURE OF MAXIMUM SUMMER DESIGN CONDITION, AND WITHIN 10 DEGREES F DRY BULB TEMPERATURE OF MINIMUM WINTER DESIGN CONDITION. WHEN SEASONAL OPERATION DOES NOT PERMIT MEASURING FINAL TEMPERATURES, THEN TAKE FINAL TEMPERATURE READINGS WHEN SEASONAL OPERATION DOES PERMIT.
  4. PREPARE REPORT OF TEST RESULTS, INCLUDING INSTRUMENTATION CALIBRATION REPORTS, IN FORMAT RECOMMENDED BY APPLICABLE STANDARDS.
  5. PATCH HOLES IN INSULATION, DUCTWORK AND HOUSINGS, WHICH HAVE BEEN CUT OR DRILLED FOR TEST PURPOSES, IN MANNER RECOMMENDED BY ORIGINAL INSTALLER.
  6. MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS AT THE COMPLETION OF TAB WORK. PROVIDE MARKINGS WITH PAINT OR OTHER SUITABLE PERMANENT IDENTIFICATION MATERIALS.
  7. RETEST, ADJUST, AND BALANCE SYSTEMS SUBSEQUENT TO SIGNIFICANT SYSTEM MODIFICATIONS, AND RESUBMIT TEST RESULTS.

**3.11 SYSTEMS START UP**

- A. STARTUP REQUIREMENTS APPLY TO CONTRACTOR AND OWNER SUPPLIED EQUIPMENT AND SYSTEMS.
- B. PRIOR TO FINAL ACCEPTANCE, AT TIME AGREED TO BY THE OWNER AND ENGINEER, PUT ALL SYSTEMS INTO SATISFACTORY OPERATION.
- C. AT FIRST HEATING OR COOLING SEASON FOLLOWING FINAL ACCEPTANCE, START UP SYSTEMS NOT STARTED DUE TO LACK OF SEASONAL DESIGN LOAD OR OPERATION OF THE CENTRAL SYSTEM.
- D. OPERATE ALL SYSTEMS IN GOOD WORKING ORDER FOR PERIOD OF FIVE (5) WORKING DAYS.
- E. PROVIDE SERVICES OF AUTHORIZED FACTORY SERVICE REPRESENTATIVE TO PERFORM START-UP AND OPERATION DEMONSTRATION SERVICES.
- F. PERFORM SERVICES IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN START-UP INSTRUCTIONS. TEST CONTROL AND DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. REPLACE DAMAGED OR MALFUNCTIONING CONTROLS AND EQUIPMENT.
- G. MAINTENANCE AND OPERATION TRAINING:
  1. AFTER THE MECHANICAL SYSTEM IS COMPLETELY INSTALLED AND OPERATIONAL, THE MECHANICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO HOURS OF TRAINING AND INSTRUCTION TIME FOR THE BUILDING OWNER OR HIS REPRESENTATIVE. DURING THIS PERIOD, THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL PARTS OF THE MECHANICAL SYSTEM, USING THE O&M MANUAL WHERE APPLICABLE.

**3.12 SPECIAL TOOLS**

- A. FURNISH TO OWNER NOT LATER THAN WHEN OWNER TAKES POSSESSION OF EQUIPMENT.
- B. DEFINITION OF SPECIAL TOOLS: IDENTIFIED IN OR OTHERWISE IMPLIED BY, THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT, OR WHICH ARE OTHERWISE REQUIRED FOR THE OPERATION, WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES FOR OPERATION, ADJUSTMENT AND MAINTENANCE. SPECIAL TOOLS DO NOT INCLUDE THOSE REQUIRED FOR MAJOR REPAIRS NORMALLY DONE BY FACTORY TRAINED OR OTHERWISE SPECIALIZED SERVICE PERSONNEL, NOR DO THEY INCLUDE THOSE NORMALLY FOUND IN THE POSSESSION OF OWNER'S ON SITE MAINTENANCE PERSONNEL.

**3.13 RECORD DOCUMENTS AND OPERATING AND MAINTENANCE MANUALS**

- A. THE CONTRACTOR SHALL PROVIDE TWO COPIES OF AN OPERATIONS AND MAINTENANCE MANUAL AT LEAST THIRTY DAYS PRIOR TO COMPLETION OF WORK. THE MANUAL SHALL BE OF THE THREE RING BINDER TYPE, ENTITLED, "OPERATION AND MAINTENANCE MANUAL," WITH THE JOB NAME AND YEAR OF COMPLETION ALSO INCLUDED. THE MANUAL SHALL INCLUDE, AS A MINIMUM:
  1. LIST OF ALL EQUIPMENT WITH MANUFACTURER'S NAME, MODEL NUMBER, AND LOCAL REPRESENTATIVE, SERVICE FACILITIES AND NORMAL CHANNEL OF SUPPLY FOR EACH ITEM.
  2. SYSTEM DESCRIPTION: DESCRIPTION OF START UP AND OPERATING PROCEDURES.
  3. CONTROLS: DIAGRAMS AND DESCRIPTION OF OPERATION SEQUENCE OF EACH SYSTEM.
  4. EQUIPMENT: MANUFACTURER'S BROCHURES, RATINGS, CERTIFIED SHOP DRAWINGS, LUBRICATION CHARTS AND DATA, PARTS LISTS WITH PART NUMBERS, AND BELT AND SHEAVE DATA. MARK EACH SHEET WITH EQUIPMENT IDENTIFICATION NUMBER AND ACTUAL INSTALLED CONDITION.
  5. MATERIALS AND ACCESSORIES: MANUFACTURER'S BROCHURES, PARTS LISTS WITH PART NUMBERS AND LUBRICATION DATA WHERE APPLICABLE. MARK EACH SHEET WITH EQUIPMENT IDENTIFICATION NUMBER OR SYSTEM AND LOCATION OF INSTALLATION; AND TO SPECIFICALLY IDENTIFY WHICH OPTIONS ARE PROVIDED (IN CASE WHERE DATA SHEET SHOWS MULTIPLE OPTIONS).
  6. CERTIFICATE OF FACTORY TEST AND CODE COMPLIANCE AS SPECIFIED.
  7. AIR AND/OR WATER SYSTEM BALANCE REPORT AS HEREIN SPECIFIED.
  8. GUARANTEE LETTER AS HEREIN SPECIFIED.
  9. ANY ADDITIONAL INFORMATION REQUIRED TO ENABLE THE OWNER TO PROPERLY OPERATE AND MAINTAIN THE BUILDING MECHANICAL SYSTEM.
- B. PROVIDE TWO COMPLETE SETS OF BLUELINE AS-BUILT MECHANICAL DRAWINGS.
  1. THE DRAWINGS SHALL INDICATE ALL DEPARTURES FROM THE CONTRACT DRAWINGS, AND SHALL LOCATE ALL UNDERGROUND UTILITY LINES WITH DIMENSIONS FROM ESTABLISHED BUILDING LINES. MAKE ALL NOTATIONS NEAT AND LEGIBLE, WITH RED INDELIBLE PENCIL. AT THE COMPLETION OF THE WORK, THESE AS-BUILT DRAWINGS SHALL BE SIGNED AND DATED BY THE MECHANICAL CONTRACTOR, AND RETURNED TO THE ARCHITECT/ENGINEER.

**3.14 GUARANTEE**

- A. ALL WORK FURNISHED UNDER THIS SECTION SHALL BE GUARANTEED IN WRITING TO BE FREE FROM DEFECTIVE WORK OR MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE CONTRACT. ALL REPAIRS OR REPLACEMENTS BECAUSE OF DEFECTIVE MATERIALS OR WORKMANSHIP OR NONCOMPLIANCE WITH CODE SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL FURNISH A LETTER INDICATING ABOVE GUARANTEE WITH SPACE FOR DATE OF ACCEPTANCE AND EXPIRATION OF GUARANTEE. LETTER SHALL BE INCLUDED IN O&M MANUAL.

**END OF SECTION 15010**

**SECTION 15400: PLUMBING**

**PART 1 - GENERAL**

**1.01 SUMMARY**

A. THIS SECTION COVERS THE WORK NECESSARY FOR THE PLUMBING SYSTEM, COMPLETE. THE MECHANICAL GENERAL PROVISIONS, SECTION 15010, ARE TO BE INCLUDED AS PART OF THIS SECTION OF THE SPECIFICATIONS.

**1.02 QUALITY ASSURANCE**

A. THE PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, ANSI STANDARDS, INTERNATIONAL MECHANICAL CODE, NFPA AND IBC, AS APPLICABLE.

**PART 2 - PRODUCTS**

**2.01 GENERAL**

A. PLUMBING FIXTURES AND EQUIPMENT SHALL BE AS LISTED ON THE DRAWINGS. IN ADDITION TO THOSE SPECIFICALLY LISTED, THE FOLLOWING MANUFACTURERS ARE APPROVED FOR BIDDING ONLY, WITH FINAL APPROVAL FOR INSTALLATION BASED ON SUBMITTAL DATA FURNISHED.

- 1. FIXTURES: AMERICAN STANDARD, KOHLER, ELJER, ELKAY, JUST, SUNROC, HALSEY-TAYLOR, OASIS, HAWS, CRANE, ACORN, BRADLEY.
- 2. SPECIALTIES: BELL & GOSSETT, CLA VAL CO., FEBCO SALES, HERSEY PRODUCTS, ITT, WATTS, J.R. SMITH
- 3. CARRIERS AND DRAINAGE PRODUCTS: J.R. SMITH, JOSAM, ZURN, AND WADE.
- 4. WATER HEATERS: BRADFORD-WHITE, RHEEM, AO SMITH, STATE AND AMERICAN.
- 5. INSULATION: ARMSTRONG WORLD INDUSTRIES, CERTAINTEED, KNAUF FIBER GLASS, MANVILLE PRODUCTS, OWENS-CORNING FIBERGLASS, PITTSBURGH CORNING
- 6. NATURAL GAS PRODUCTS: DEZURIK CORP, JENKINS BROS, LUKENHEIMER CO, NIBCO, POWELL (THE WM.) CO, ROCKWELL INTERNATIONAL, STOCKHAM VALVES AND FITTINGS, WALWORTH
- 7. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL.

**2.02 FIXTURE AND PIPING STANDARDS**

- A. PLUMBING FIXTURES: ANSI A112, ARI 1010, Z358.1 ANSI/ASSE 1011, 1013, 1019, PDI WH-201
- B. PIPING: ASTM D2321, D1527, D2468, D2661, D2235, D2665, D3311, D2564

**2.03 PLUMBING FIXTURES AND TRIM**

A. ALL PLUMBING FIXTURES SHALL BE PROVIDED COMPLETE WITH ALL REQUIRED TRIM FOR A COMPLETE AND OPERATIONAL SYSTEM. ALL EXPOSED TRIM SHALL BE CHROME PLATED. ALL PIPING PENETRATIONS THROUGH FINISHED WALL SHALL BE PROVIDED WITH CHROME ESCUTCHEONS. ALL PLUMBING FIXTURES SHALL BE CAULKED AND SEALED TO SURROUNDING SURFACES.

**2.04 PIPING AND FITTINGS:**

A. GENERAL:

- 1. UNDERGROUND SANITARY SEWER AND STORM DRAIN LINES SHALL BE INSTALLED AT 1/4-INCH PER FOOT SLOPE, UNLESS OTHERWISE INDICATED. IF SUCH SLOPE IS NOT POSSIBLE DUE TO EXISTING INVERTS, APPROVAL SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION BEFORE ANY PIPING IS INSTALLED AT A LESSER SLOPE.
- 2. CONNECTIONS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- 3. PROVIDE STANDARD MANUFACTURED WATER HAMMER ARRESTERS AT ALL FLUSH VALVES. SIZE AND LOCATE PER MANUFACTURERS RECOMMENDATIONS. PROVIDE ACCESS PANELS FOR ACCESS TO ALL WATER HAMMER ARRESTERS.

B. DOMESTIC HOT AND COLD WATER:

- 1. PIPING INSIDE BUILDING ABOVE SLAB OR ABOVE GRADE IN CRAWL SPACE SHALL BE ASTM B88, TYPE "L," HARD DRAWN COPPER. FITTINGS SHALL BE ANSI/ASME B16.23 CAST BRASS, OR ANSI/ASME B16.29 WROUGHT COPPER. JOINTS SHALL BE ANSI/ASTM B32 SOLDER, GRADE 95-5, LEAD FREE.
- 2. PIPING UNDERGROUND WITHIN 5 FEET OF THE BUILDING LINE OR BELOW FLOOR SLAB, SMALLER THAN 4 INCHES, SHALL BE ASTM B88, TYPE "K," HARD DRAWN OR SOFT ANNEALED COPPER. FITTINGS SHALL BE ANSI/ASME B16.29 WROUGHT COPPER. JOINTS SHALL BE ANSI/ASTM B32 SOLDER, GRADE 95-5, LEAD FREE. NO JOINTS SHALL BE INSTALLED BENEATH CONCRETE FLOOR SLABS.

C. SANITARY SEWER AND VENT:

- 1. PIPING AND FITTINGS SHALL BE ABS, ASTM D2680 OR D2751 WITH ABS FITTINGS. JOINTS SHALL BE ASTM D2235, SOLVENT WELDED AS PER SOLVENT MANUFACTURER'S INSTRUCTIONS. ALL MAIN SEWER RISERS (1 STORY OR MORE), SHALL BE CAST IRON CISPI 301, HUBLESS, SERVICE WEIGHT, FOR PREVENTION OF NOISE TRANSMISSION. ALL

PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS SHALL BE CAST IRON OR STEEL, AND SHALL BE FIRE SEALED PER LOCAL BUILDING INSPECTORS REQUIREMENTS. ALL PIPING LOCATED ABOVE CEILINGS IN AREAS USED AS RETURN AIR PLENUMS SHALL BE CAST IRON OR STEEL.

D. HANGERS AND SUPPORTS:

- 1. PIPE HANGERS SHALL BE PROVIDED TO ADEQUATELY SUPPORT ALL PIPING SYSTEMS. HANGERS SHALL BE VERTICALLY ADJUSTABLE TO PROVIDE FOR PROPER PITCH AND DRAINAGE. HANGERS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF THE PIPING SYSTEMS.
- 2. HANGERS FOR PIPE SIZES 1/2 TO 4 INCHES SHALL BE ADJUSTABLE CLEVIS TYPE.
- 3. HANGERS FOR COLD PIPE, SIZES 6 INCHES AND OVER, SHALL BE ADJUSTABLE CLEVIS TYPE.
- 4. HANGERS FOR HOT PIPE 6" AND OVER, SHALL BE ADJUSTABLE STEEL YOKE, CAST IRON ROLL, DOUBLE HANGER TYPE.
- 5. VERTICAL PIPES SHALL BE SUPPORTED WITH STEEL RISERS CLAMPS.
- 6. ALL INSULATED PIPING SHALL BE PROVIDED WITH MINIMUM 18 GAUGE GALVANIZED INSULATION SHIELDS, 12 INCHES LONG, AND OVERSIZED HANGERS.
- 7. HANGER ROD SIZING AND SPACING FOR PIPE SHALL BE AS FOLLOWS:
  - A. PIPE SIZE TO 1-1/4", 3/8" ROD DIAMETER, 6-1/2 FOOT MAX SPACING
  - B. PIPE SIZE TO 2", 3/8" ROD DIAMETER, 10 FOOT MAX SPACING
  - C. PIPE SIZE TO 3", 1/2" ROD DIAMETER, 10 FOOT MAX SPACING
  - D. PIPE SIZE TO 6", 5/8" ROD DIAMETER, 10 FOOT MAX SPACING
  - E. PIPE SIZE TO 12", 7/8" ROD DIAMETER, 14 FOOT MAX SPACING
  - F. PVC/ABS (ALL SIZES), 3/8" ROD DIAMETER, 6 FOOT MAX SPACING
  - G. CAST IRON NO-HUB, 5/8" ROD DIAMETER, 6 FOOT MAX SPACING AND AT JOINTS
- 8. PROVIDE HANGERS WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW.
- 9. PROVIDE HANGERS WITH MINIMUM 1-1/2 INCHES VERTICAL ADJUSTMENT.

**2.05 INSULATION:**

A. GENERAL:

- 1. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS, AS TESTED BY ASTM E84, NFPA 255, AND UL 723, NOT EXCEEDING

A. FLAME SPREAD: 25

B. SMOKE DEVELOPED: 50

B. PIPING:

- 1. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 2. INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS.
- 3. ALL INSULATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- 4. ENTIRE LENGTH OF HOT WATER PIPING SHALL BE INSULATED. COLD WATER PIPING WITHIN EIGHT FEET OF WATER HEATER SHALL BE INSULATED.

**2.06 VALVES AND STRAINERS:**

A. BALL VALVES:

- 1. VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS, AND LEVER HANDLE. VALVES OVER 2 INCHES SHALL BE CAST STEEL BODY, CHROME PLATED STEEL BALL TEFLON SEATS, AND LEVER HANDLE.

B. CHECK VALVES:

- 1. VALVES 2 INCHES AND SMALLER SHALL BE BRONZE Y-PATTERN, SWING CHECK, BRONZE DISC, 200 PSI WOG. VALVES OVER 2 INCHES SHALL BE IRON BODY, BRONZE TRIM, SWING CHECK, RENEWABLE DISC AND SEAT.

C. STRAINERS:

- 1. STRAINERS 3 INCHES AND SMALLER SHALL BE IRON BODY, Y-PATTERN, 20-MESH MONEL SCREEN.

**PART 3 - EXECUTION**

**3.01 WORKMANSHIP**

A. GENERAL:

- 1. INSTALL ALL PIPING, FIXTURES, EQUIPMENT, AND ACCESSORIES AS SHOWN, AND IN STRICT ACCORDANCE WITH THE PLUMBING LAWS, RULES, AND REGULATIONS OF THE STATE AND/OR CITY. ALL WORK SHALL BE DONE IN A NEAT AND ORDERLY FASHION, AND LEFT IN A CONDITION SATISFACTORY TO THE ARCHITECT/ENGINEER.

B. PIPING:

- 1. ALL PIPING SHALL BE RUN PARALLEL OR PERPENDICULAR TO ESTABLISHED BUILDING LINES. INSTALL PIPING SO AS TO ALLOW FOR EXPANSION. WASTE AND VENT PIPING OCCURRING ABOVE FLOOR SLAB SHALL BE INSTALLED TRUE AND PLUMB. EXTEND VENTS AT LEAST 1 FOOT ABOVE ROOF AND PROVIDE WATERTIGHT FLASHING SLEEVES. EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 15010 OF THESE SPECIFICATIONS.

C. FIXTURES:

- 1.1 INSTALL FIXTURES TRUE AND PLUMB WITH BUILDING WALLS. CAULK ALL PLUMBING FIXTURES AT JOINTS ALONG WALL, COUNTERTOPS, AND OTHER INTERSECTING SURFACE.
- 1.2 LOCATE FIXTURES AS SHOWN AND PER MANUFACTURER'S INSTRUCTIONS.
- 1.3 FURNISH ALL REQUIRED TRIM FOR FIXTURES TO PROVIDE A COMPLETE AND WORKABLE INSTALLATION.

**3.02 TESTS**

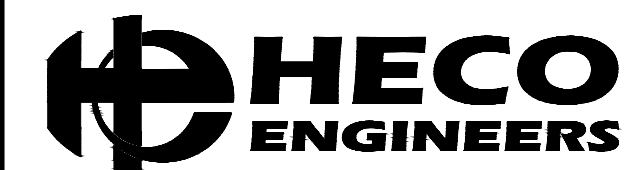
A. GENERAL:

- 1. ALL PIPING, FIXTURES, AND EQUIPMENT SHALL BE INSPECTED AND APPROVED BEFORE CONCEALING OR COVERING. ALL WORK SHALL BE TESTED AS REQUIRED BY SECTION 15010 OF THESE SPECIFICATIONS, AND SHALL BE LEAK PROOF BEFORE INSPECTION IS REQUESTED. ALL TESTS SHALL BE REPEATED IF REQUIRED BY THOSE MAKING THE INSPECTION.
- 2. ALL POTABLE WATER SYSTEMS SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH SECTION 15010 OF THESE SPECIFICATIONS. FOLLOWING DISINFECTION, SYSTEM SHALL BE FLUSHED AND WATER SAMPLED TO SHOW COMPLIANCE WITH REQUIREMENTS OF PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. IF TESTED WATER DOES NOT MEET REQUIREMENT, DISINFECTING SHALL BE REPEATED UNTIL WATER QUALITY MEETS REQUIREMENTS.

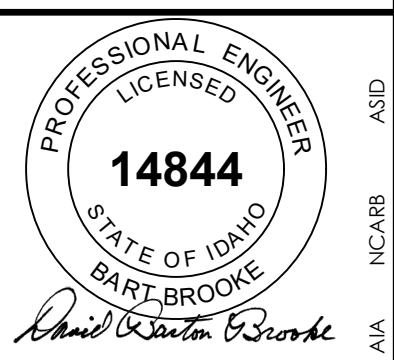
A. FIXTURES AND EQUIPMENT:

- 1. FILL ALL PLUMBING FIXTURES WITH WATER AND CHECK FOR LEAKS OR RETARDED FLOW. REPAIR AS REQUIRED. ADJUST EACH PIECE OF PLUMBING EQUIPMENT AS REQUIRED TO INSURE PROPER FUNCTION. LEAVE ALL FIXTURES AND EQUIPMENT IN FIRST CLASS OPERATING CONDITION.

**END OF SECTION 15400**



**Myers Anderson**  
 ■  
 Myers Anderson  
 ■ Architecture ■ Interior Design ■ Historic Preservation  
 122 South Main Street ■ Pocatello, Idaho 83204 ■ Tel. (208) 232-3741 ■ Fax (208) 232-3782



1-31-24

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
 STANLEY, ID  
 PROJECT NAME:

SHEET TITLE:

**PLUMBING SPECIFICATIONS SECTION 15400**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS or SPECIFICATIONS

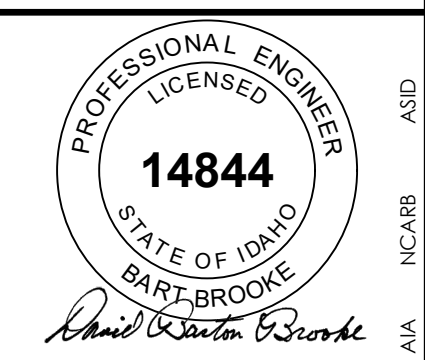
REVISION	DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

SHEET **M0.2**



1-31-24

ITD MOBILE HOME UNIT AND SITE DESIGN  
 STANLEY, ID

PROJECT NAME:

SHEET TITLE:

GENERAL NOTES AND LEGEND

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

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REVISION DATE

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SHEET ISSUED DATE: JANUARY 2024

SHEET M1.0

ABBREVIATIONS

@	AT	CX	CONNECT TO EXISTING	IE	INVERT ELEVATION	PRV	PRESSURE REDUCING VALVE
Ø	DIAMETER/PHASE	DBL	DOUBLE	IGV	INLET GUIDE VANE(S)	PVC	POLYVINYL CHLORIDE
</L	ANGLE	DEPT	DEPARTMENT	IMC	INTERNATIONAL MECHANICAL CODE	PW	POTABLE WATER
#	NUMBER/POUND	DET	DETAIL	IND	INDIRECT	RA	RETURN AIR
°	DEGREE(D) DEPTH	DIM	DIMENSION	IN	INCH	RAD	RADIUS
(E)	EXISTING	DISCH	DISCHARGE	IND	INDIRECT	RD	ROOF DRAIN
(F)	FUTURE	DN	DOWN	INSUL	INSULATION	RDL	ROOF DRAIN LEADER
(L)	LENGTH	DS	DOWNSPOUT	INT	INTERIOR	RE:	REFERENCE
(N)	NEW	DSP	DRY STANDPIPE	IPC	INTERNATIONAL PLUMBING CODE	REFL	REFLECTED
(W)	WIDTH	DWG	DRAWING	IA	INSTRUMENT AIR	REL	RELOCATE
ABS	ACRYLONITRILE BUTADIENE STYRENE	DCBP	DOUBLE CHECK BACKFLOW PREVENTOR	J-BOX	JUNCTION BOX	REM	REMOVE
ABV	ABOVE	DSN	DOWNSPOUT NOZZLE	JST	JOIST	REINF	REINFORCE
ADA	AMERICAN DISABILITIES ACT	E	EAST	KW	KILOWATT	RQD	REQUIRED
ADJ	ADJUSTABLE	EA	EACH	KWH	KILOWATT HOUR	RPM	REVOLUTIONS PER MINUTE
AFG	BOVE FINISHED CEILING	EAT	ENTERING AIR TEMPERATURE	L	LINED	RTU	ROOFTOP UNIT
AFF	ABOVE FINISH FLOOR	EF	EXHAUST FAN	LAV	LAVATORY	R	RISER
AFG	ABOVE FINISH GRADE	EFF	EFFICIENCY	LBS	POUNDS	REFG	REFRIGERATION/REFRIGERANT
AFS	ABOVE FINISH SLAB	EG	EXHAUST GRILLE	LF	LINEAL FEET/FOOT	REQD	REQUIRED
ALT	ALTERNATE	ELECT	ELECTRICAL	LPG	LIQUEFIED PETROLEUM GAS	RFLD	REFLECTED
AL	ALUMINUM	ELEV	ELEVATION	LRA	LOCKED ROTOR AMP	RIO	ROUGH IN ONLY
ANOD	ANODIZED	EMERG	EMERGENCY	L/S	LITERS PER SECOND	RO	REVERSE OSMOSIS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ENCL	ENCLOSED/ENCLOSURE	LWT	LEAVING WATER TEMPERATURE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
APPROX	APPROXIMATE	ENT	ENTERING	LPC	LOW PRESSURE CONDENSATE	RPM	REVOLUTIONS PER MINUTE
ARCH	ARCHITECTURAL	EQ	EQUAL	LPS	LOW PRESSURE STEAM	S	METER
AUTO	AUTOMATIC	EQUIP	EQUIPMENT	MAT	MATERIAL	SCHED	SCHEDULE
AUX	AUXILIARY	ESP	EXTERNAL STATIC PRESSURE	MAX	MAXIMUM	SECT	SECTION
BDD	BACK DRAFT DAMPER	EWC	ELECTRIC WATER COOLER	MECH	MECHANICAL	SER	SERIES
BFF	BELOW FINISH FLOOR	EWT	ENTERING WATER TEMPERATURE	MEZZ	MEZZANINE	SF	SQUARE FOOT
BFS	BELOW FINISH SLAB	EXH	EXHAUST	MFG	MANUFACTURER	SIM	SIMILAR
BG	ELOW GRADE	EXIST	EXISTING	MIN	MINIMUM	SOV	SHUT OFF VALVE
BHP	BRAKE HORSEPOWER	EXP	EXPANSION	MISC	MISCELLANEOUS	SPEC	SPECIFICATION
BI	BACKWARD INCLINED	EXT	EXTERIOR	MM	MILLIMETER	SQ	SQUARE
BLDG	BUILDING	F	FIRE SERVICE	MO	MOTOR OPERATED	SS	SANITARY SEWER
BOD	BOTTOM OF DUCT	FA	FIRE ALARM	MOC	MAX OVERLOAD CURRENT PROTECTION	SST	STAINLESS STEEL
BOS	BOTTOM OF STEEL	FCO	FLOOR CLEANOUT	MTD	MOUNTED	STD	STANDARD
BRD	BOARD	FD	FLOOR DRAIN	MTG	MOUNTING	STL	STEEL
BRG	BEARING	FDC	FIRE DEPARTMENT CONNECTION	MTL	METAL	STRUCT	STRUCTURAL
BTU	BRITISH THERMAL UNIT	FH	FIRE HYDRANT	MC	MECHANICAL CONTRACTOR	SUSP	SUSPENDED
BOP	BOTTOM OF PIPE	FIN	FINISH	MHT	MALE HOSE THREAD	SYS	SYSTEM
BOT	BOTTOM	FINS/IN	FINS PER INCH	MPC	MEDIUM PRESSURE CONDENSATE	SHT	SHEET
CA	COMBUSTION AIR	FLA	FULL LOAD AMPS	MPS	MEDIUM PRESSURE STEAM	TOS	TOP OF STEEL
CAP	CAPACITY	FLASH	FLASHING	MSG	MANUFACTURED STANDARD GAUGE	TYP	TYPICAL
CB	CATCH BASIN	FLR	FLOOR(ING)	N	NORTH	TPW	TEMPERED POTABLE WATER
CD	CONDENSATE DRAIN	FOB	FLAT ON BOTTOM	N/A	NOT APPLICABLE	TWR	TEMPERED WATER RETURN
CF	CUBIC FEET	FOT	FLAT ON TOP	NC	NORMALLY CLOSED	TWS	TEMPERED WATER SUPPLY
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FPM	FEET PER MINUTE	NEC	NATIONAL ELECTRIC CODE	UBC	UNIFORM BUILDING CODE
CFF	CAP FOR FUTURE	FRPF	FIREPROOF	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UFC	UNIFORM FIRE CODE
CFM	CUBIC FEET PER MINUTE	FT	FEET/FOOT	NG	NATURAL GAS	UL	UNDERWRITERS LABORATORY
CI	CAST IRON	FURR	FURRING	NIC	NOT IN CONTRACT	UNFIN	UNFINISHED
CL	CENTER LINE	FS	FLOOR SINK	NO	NORMALLY OPEN	UNO	UNLESS NOTED OTHERWISE
CLG	CEILING	FUT	FUTURE	NOM	NOMINAL	UPC	UNIFORM PLUMBING CODE
CLR	CLEAR	GA	GAUGE OR GAGE	NTS	NOT TO SCALE	U	URINAL
CNT	CENTER	GALV	GALVANIZED	NUM	NUMBER	UG	UNDERGROUND
CO	CLEAN OUT	GC	GENERAL CONTRACTOR	NPW	NON-POTABLE WATER	V	VOLT
COL	COLUMN	GND	GROUND	OBP	OPPOSED BLADE DAMPER	VAC	VACUUM
CONC	CONCRETE	GCO	GRADE CLEANOUT	OC	ON CENTER	VAV	VARIABLE AIR VOLUME
COND	CONDENSATE	GPM	GALLONS PER MINUTE	OD	OUTSIDE DIAMETER	VD	VOLUME DAMPER
CONN	CONNECTION	GW	GREASE WASTE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	VEL	VELOCITY
CONST	CONSTRUCTION	HCP	HANDICAP	OH	OVERHEAD	VERT	VERTICAL
CONT	CONTINUOUS/CONTINUATION	HD	HEAD	OZ	OUNCE	VFD	VARIABLE FREQUENCY DRIVE
CONTR	CONTRACTOR	HDWR	HARDWARE	ODL	OVERFLOW DRAIN LEADER	VOL	VOLUME
CTC	CENTER TO CENTER	HORIZ	HORIZONTAL	OH	OVERHEAD	VTR	VENT THRU ROOF
CV	VALVE COEFFICIENT	HR	HOUR	OS&Y	OUTSIDE STEM & YOKE	VA	VALVE
CDA	CLEAN DRY AIR	HT	HEIGHT	P	PRESSURE	VIF	VERIFY IN FIELD
CFF	CAP FOR FUTURE	H2O	WATER	PH	PHASE(S)	VRV	VACUUM RELIEF VALVE
CHR	CHILLED WATER RETURN	HB	HOSE BIB	PLBG	PLUMBING	VTR	VENT THRU ROOF
CHS	CHILLED WATER SUPPLY	HGR	HOT GLYCOL RETURN	POC	POINT OF CONNECTION	W	WEST
CLK	CAULK(ING)	HGS	HOT GLYCOL SUPPLY	PSF	POUNDS PER SQUARE FOOT	W/	WITH
CLR	CLEAR	HPC	HIGH PRESSURE CONDENSATE	PSI	POUNDS PER SQUARE INCH	W/O	WITHOUT
COTG	CLEANOUT TO GRADE	HORIZ	HORIZONTAL	PVC	POLYVINYL CHLORIDE	WC	WATER CLOSET
CW	DOMESTIC COLD WATER	HW	POTABLE HOT WATER SUPPLY	P/T	PRESSURE/TEMPERATURE	WP	WATERPROOF
CW/	COORDINATE WITH	HWC	DOMESTIC HOT WATER RECIRC	PHWR	POTABLE HOT WATER RETURN	WPD	WATER PRESSURE DROP
CWFR	CHEMICAL WATER FEED RETURN	HWR	HEATING WATER RETURN	PHWS	POTABLE HOT WATER RETURN	WT	WEIGHT
CWFS	CHEMICAL WATER FEED SUPPLY	HWS	HEATING WATER SUPPLY	PIV	POST INDICATOR VALVE	W	WEST/WASTE
CWR	CONDENSER WATER RETURN	IBC	INTERNATIONAL BUILDING CODE			WCO	WALL CLEANOUT
CWS	CONDENSER WATER SUPPLY	ID	INSIDE DIAMETER			WH	WATERHEATER
		IDW	INDIRECT WASTE				

NOTE: ALL ABBREVIATIONS LISTED ABOVE MAY NOT APPEAR ON THESE DOCUMENTS.

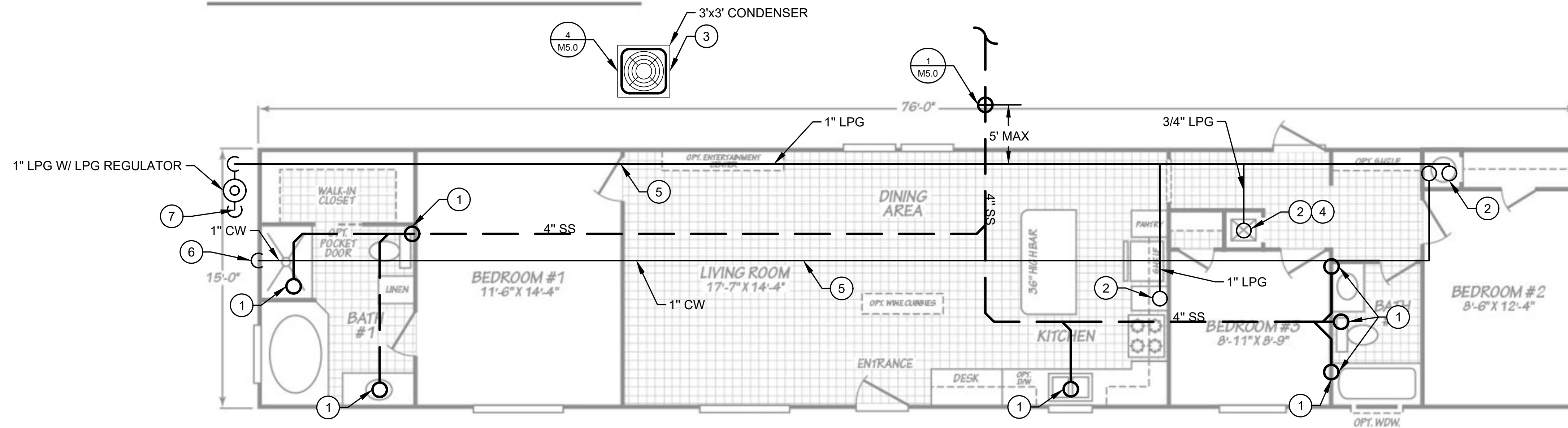
PLUMBING AND PIPING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COMPRESSED AIR		WATER HAMMER ARRESTOR
	CONDENSATE DRAIN		NON POTABLE WATER
	CLEAN DRY AIR		OVERFLOW DRAIN LEADER
	CARBON DIOXIDE		POTABLE HOT WATER RETURN
	CONDENSER WATER RETURN		POTABLE HOT WATER SUPPLY
	CONDENSER WATER SUPPLY		POTABLE WATER
	CHILLED WATER RETURN		ROOF DRAIN LEADER
	CHILLED WATER SUPPLY		STORM DRAIN
	DOMESTIC COLD WATER		SANITARY SEWER
	DEMO ITEMS		TEMPERED POTABLE WATER
	GREASE WASTE		TEMPERED WATER RETURN
	HELIUM		TEMPERED WATER SUPPLY
	HOT GLYCOL RETURN		VENT
	HOT GLYCOL SUPPLY		THERMOMETER
	HIGH PRESSURE CONDENSATE		CIRCUIT SETTER
	HIGH PRESSURE STEAM		PRESSURE GAUGE
	DOMESTIC HOT WATER		HOSE BIBB
	DOMESTIC HOT WATER RECIRCULATION		IN-LINE PUMP
	HEATING WATER RETURN		IN-LINE PUMP
	HEATING WATER SUPPLY		QUICK DISCONNECT
	INSTRUMENT AIR		BREAK LINE
	INDIRECT WASTE		STEAM VALVE
	LIQUEFIED PETROLEUM GAS		BUTTERFLY VALVE
	LOW PRESSURE CONDENSATE		BALANCE VALVE
	LOW PRESSURE STEAM		DIAPHRAGM VALVE
	MEDICAL AIR		DOWNSPOUT NOZZLE
	MEDIUM PRESSURE CONDENSATE		FLOOR DRAIN ROUND OR SQUARE
	MEDIUM PRESSURE STEAM		FLOW METER
	MEDICAL VACUUM		FLOW SWITCH
	NITROGEN		FLOOR SINK
	NITROUS OXIDE		FLOW VALVE
	NATURAL GAS		GAS METER
	DIRECTION OF FLOW		GLOBE VALVE
	REDUCER		INLINE TEMPERATURE GAUGE
	PIPE DROP		PLUG VALVE
	PIPE DROP		OUTSIDE STEM AND YOKE
	PIPE RISE		RECIRC PUMP
	PIPE RISE		TEMPERATURE CONTROL VALVE
	VENT THRU ROOF		THERMO WELL
	WALL CLEAN-OUT		EXPANSION TANK
	GRADE CLEAN-OUT		ROOF DRAIN
	PIPE CAP		OVERFLOW DRAIN
	CHECK VALVE		VERTICAL VALVE
	DOUBLE CHECK ASSEMBLY		VACUUM RELIEF VALVE
	REDUCED PRESSURE BACK FLOW ASSY.		MANUAL AIR VENT
	CONTROL VALVE		AUTOMATIC AIR VENT
	PRESSURE REDUCING VALVE		POINT OF CONNECTION TO EXISTING
	PRESSURE REGULATOR		
	BALL VALVE (NORMALLY CLOSED)		
	BALL VALVE (NORMALLY OPEN)		
	GATE VALVE		
	AGA RATED GAS VALVE		
	THREE WAY CONTROL VALVE		
	FLEXIBLE PUMP CONNECTOR		
	UNION		
	SOLENOID VALVE		
	STRAINER		
	PRESSURE RELIEF VALVE		

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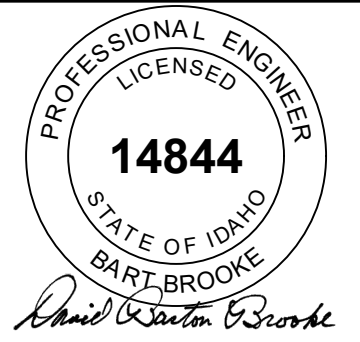


# BROADMORE SERIES



**KEYNOTES:**

1. ALL PLUMBING FIXTURES ARE PLUMBED WITHIN THE BUILDING AND DROPS ARE PROVIDED TO CONNECT PER MANUFACTURED HOME INSTALLATION MANUAL.
2. ALL LPG APPLIANCES ARE INSTALLED AND PLUMBED WITHIN MANUFACTURED HOME. CONTRACTOR TO CONNECT TO QUICK DISCONNECTS PER MANUFACTURED HOME INSTALLATION INSTRUCTIONS.
3. CONDENSING UNIT INSTALL ON 3'x3' CONCRETE PAD. ROUTE REFRIGERATION UNITS UNDER UNIT TO FAN COIL UNIT IN BUILDING PER MANUFACTURER'S REQUIREMENTS.
4. EXTEND CONDENSATION OUT THE BUILDING AND TERMINATE AT AN APPROVED LOCATION PER MANUFACTURED HOME INSTALLATION MANUAL.
5. SUPPORT CW/LPG LINES UNDER JOIST OF MOBILE HOME TIGHT TO INSULATION. INSULATE 1" CW LINE W/ 1-1/2" NEOPRENE INSULATION AND WRAP WITH SELF REGULATING HEAT TAPE.
6. CONNECT TO WATER LINE. SEE CIVIL SHEETS FOR CONNECTION LOCATION.
7. CONNECT TO LPG LINE. SEE CIVIL SHEETS FOR CONNECTION LOCATION AND ROUTING TO TANK.



1-31-24

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

**PLUMBING  
NEW SITE PLAN**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

REVISION DATE

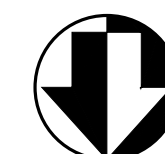
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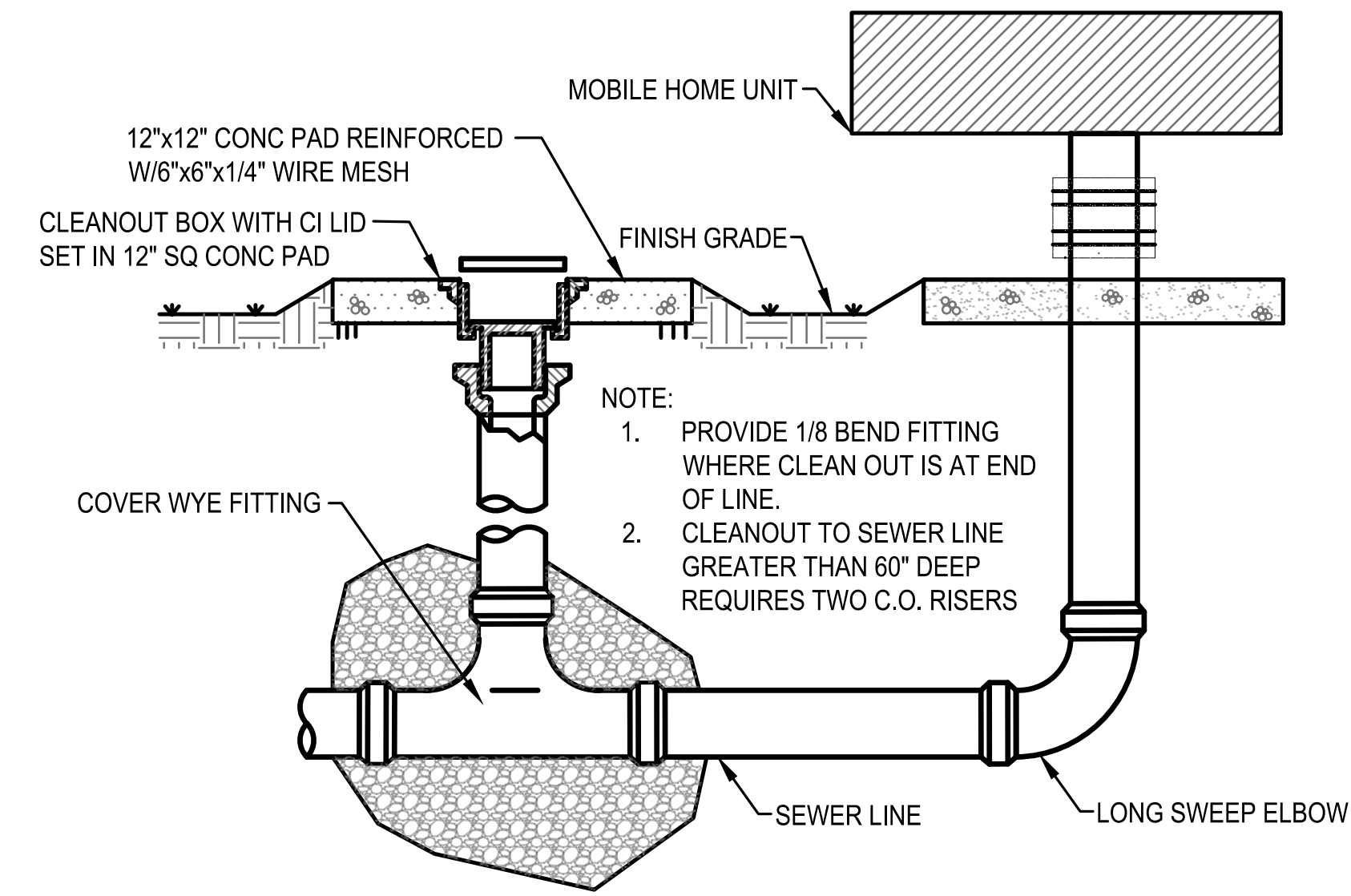
ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

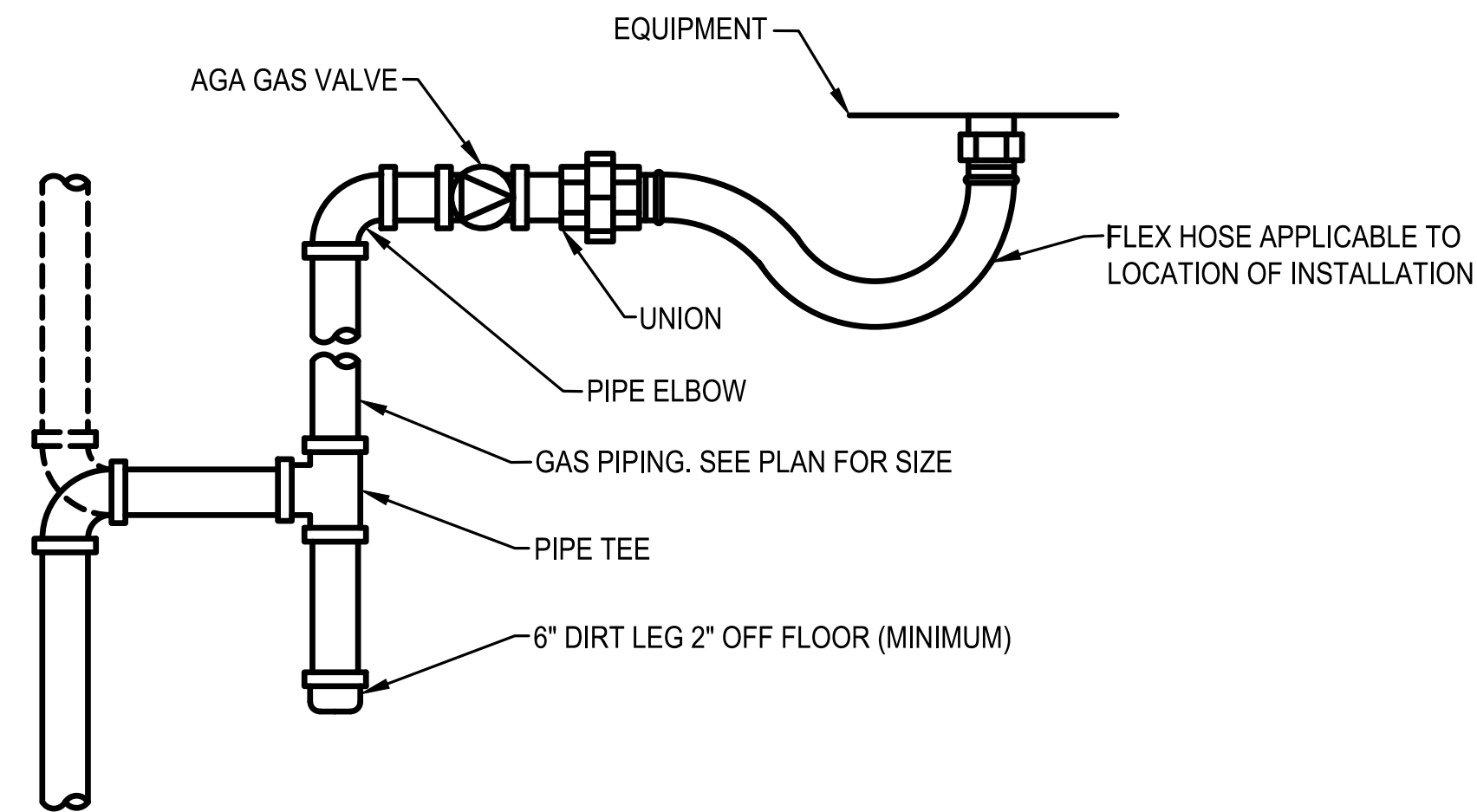
SHEET **M2.0**

**1** PLUMBING & HVAC PLAN  
M2.0 SCALE: NTS

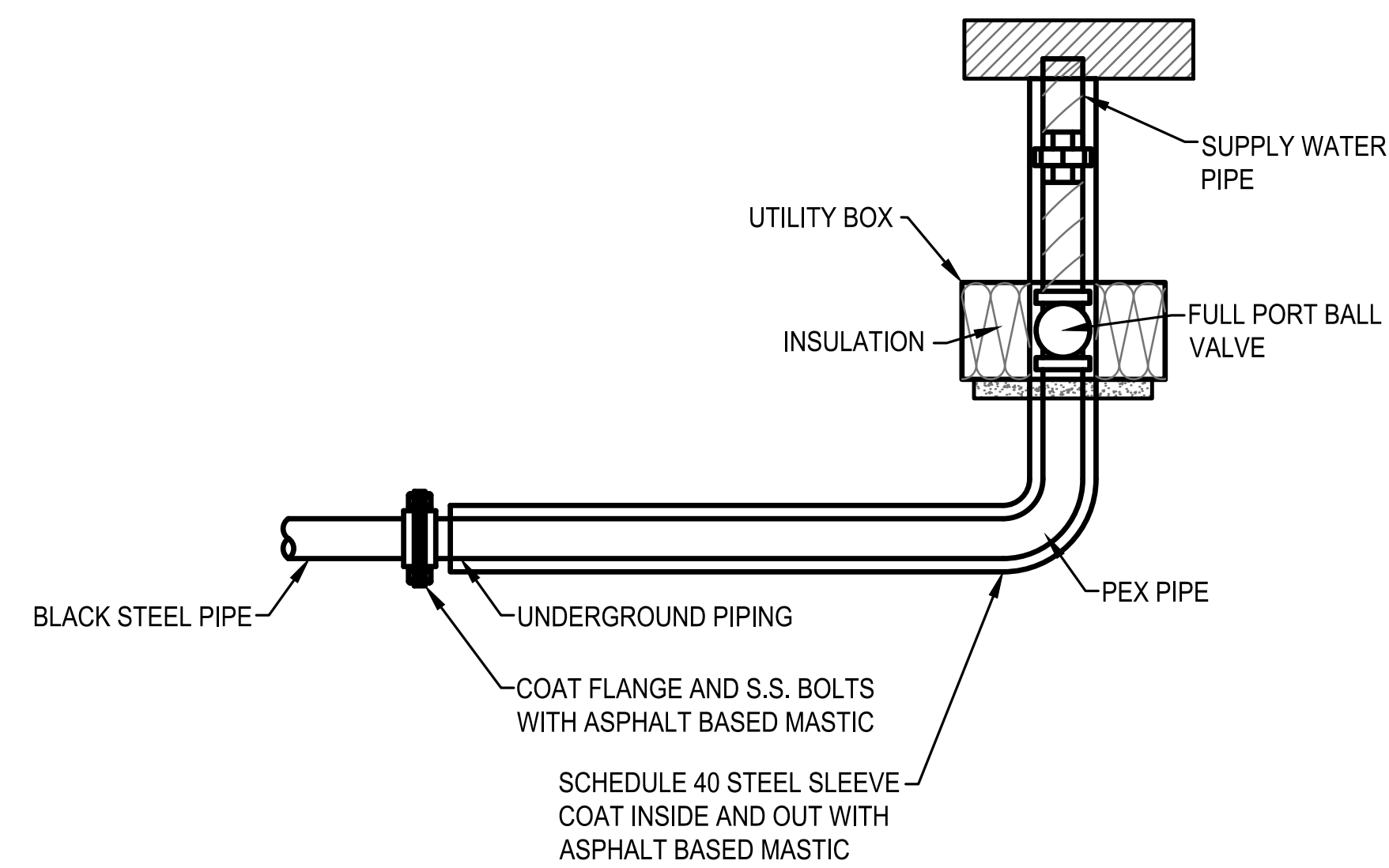




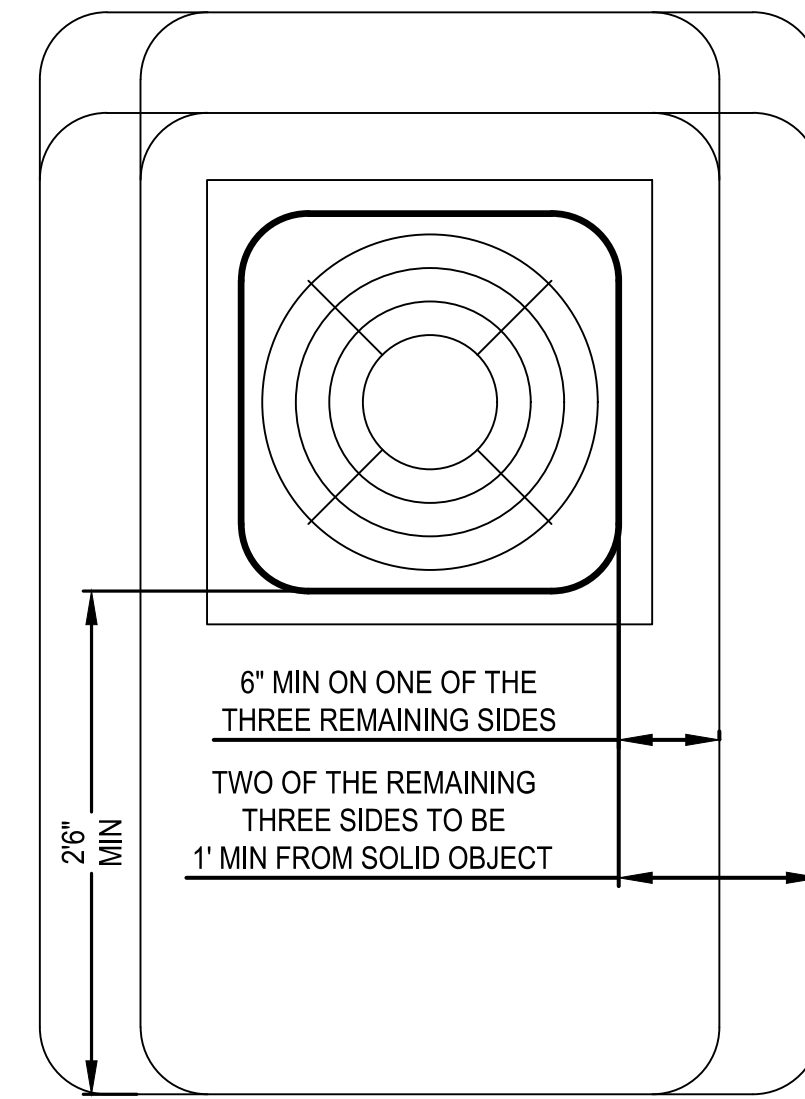
**1 GRADE CLEAN OUT**  
 M5.0 SCALE: NTS



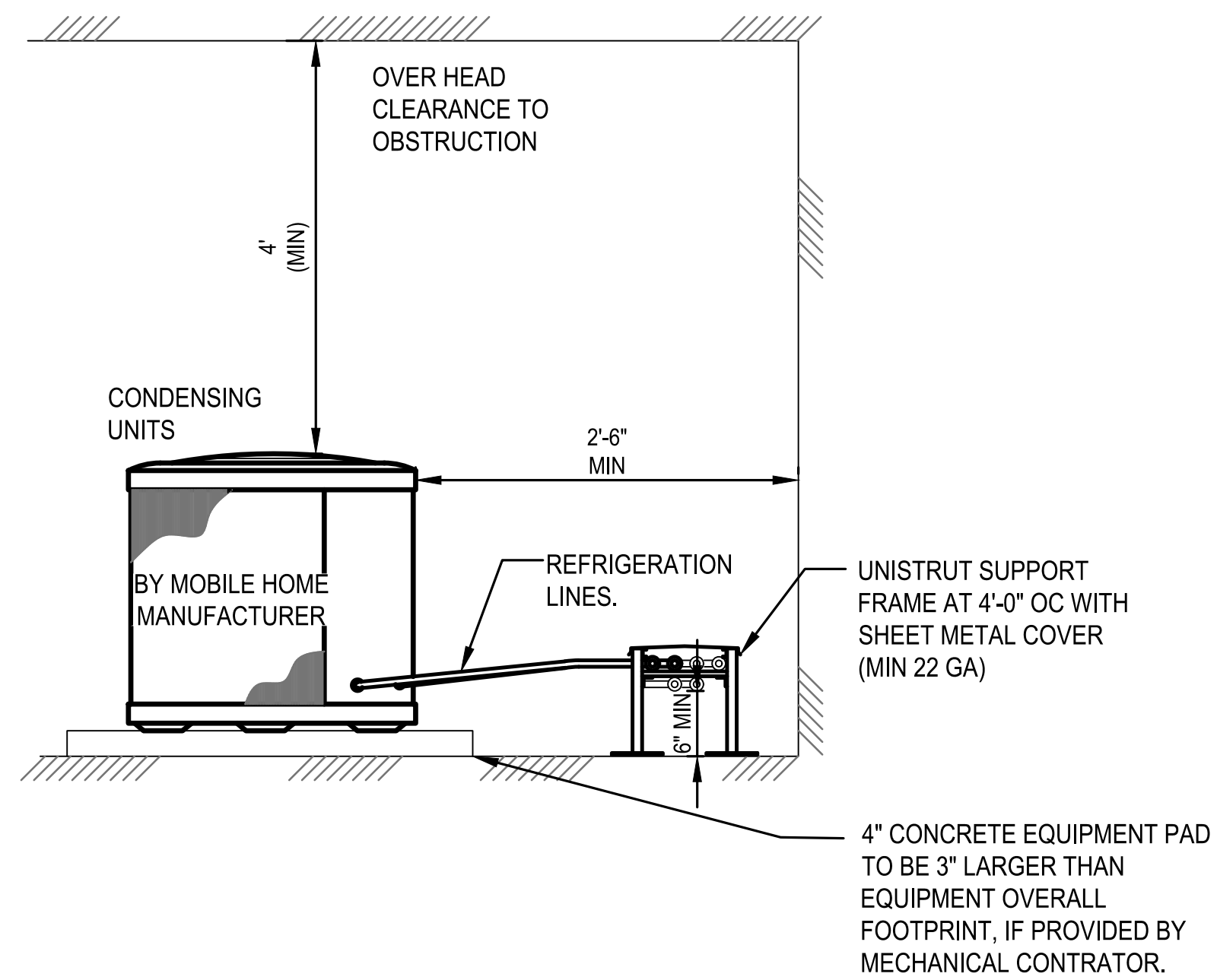
**2 GAS CONNECTION DETAIL**  
 M5.0 SCALE: NTS



**3 BELOW FOUNDATION CRAWL ENTRANCE**  
 M5.0 SCALE: NTS



**4 CONDENSING UNIT DETAIL**  
 M5.0 SCALE: NTS



**POWER SYSTEM DEVICE SYMBOLS**

- DUPLEX OUTLET. +18" AFF UNO.
- FOURPLEX OUTLET. +18" AFF UNO.
- GFI OUTLET. +18" AFF UNO.
- GFI OUTLET. ABOVE COUNTER
- FOURPLEX GFI OUTLET. +18" AFF UNO.
- DEDICATED SIMPLEX GFCI OUTLET. +18" AFF UNO.
- EQUIPMENT CONNECTION
- 120V TWIST LOCK RECEPTACLE.
- TRANSFORMER.
- JUNCTION BOX.
- FLUSH MOUNTED PANELBOARD/ENCLOSURE.
- FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.
- NON-FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.

**CIRCUIT WIRING SYMBOLS**

- CONDUIT STUBBED OR SLEEVE, CAPPED, AND MARKED WITH PULL CORD
- CIRCUIT CONCEALED IN CEILING OR WALL. 3/4"C-2#12,1#12G UNO.
- CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND. 3/4"C-2#10,1#10G UNO.
- RACEWAY SIZE
- CONDUCTOR SIZE
- CONDUCTOR QUANTITY
- GROUNDING CONDUCTOR SIZE
- CONDUIT AND WIRE SIZE CALLOUT.

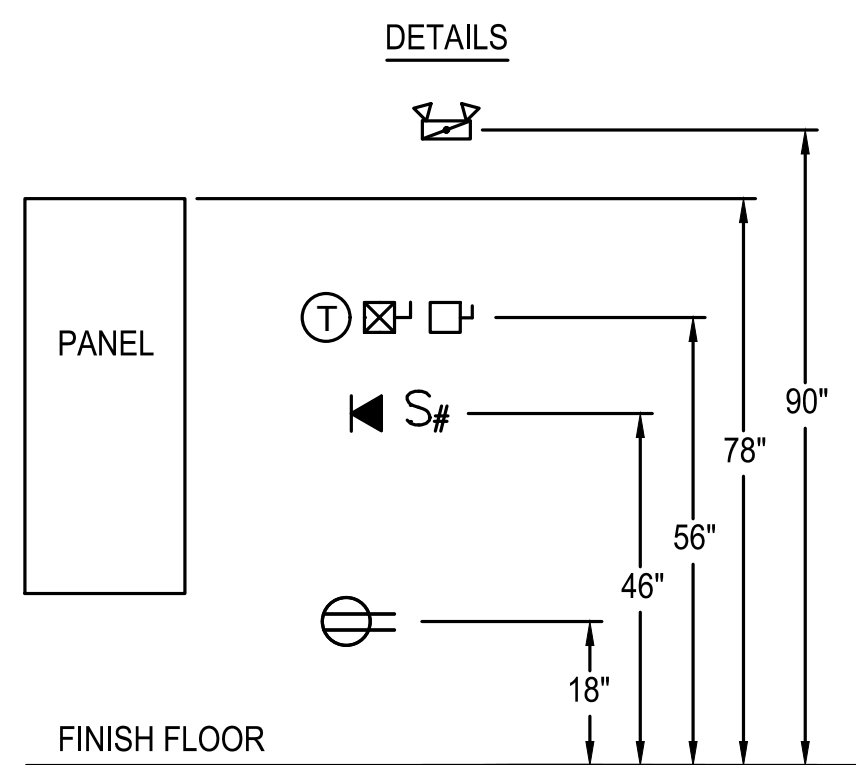
**ONE-LINE DIAGRAM SYMBOLS**

- BRANCH PANEL.
- CIRCUIT BREAKER. SIZE AND TYPE AS SPECIFIED
- METER AND BASE
- SERVICE GROUND. GROUND PER NEC ARTICLE 250
- TRANSFORMER

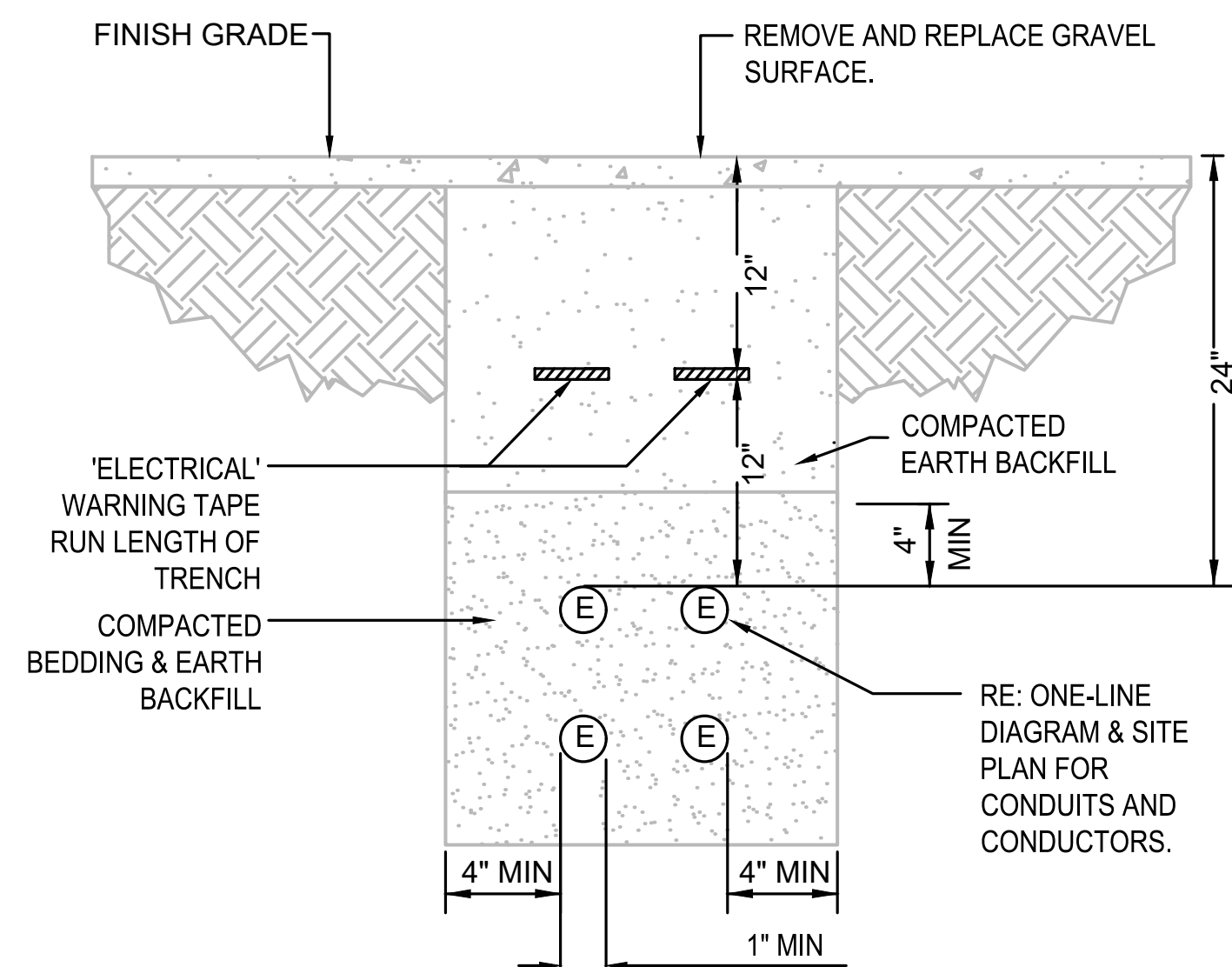
**1. COLOR CODE WIRES AS FOLLOWS:**

CONDUCTORS	120/208V	480/277V
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN

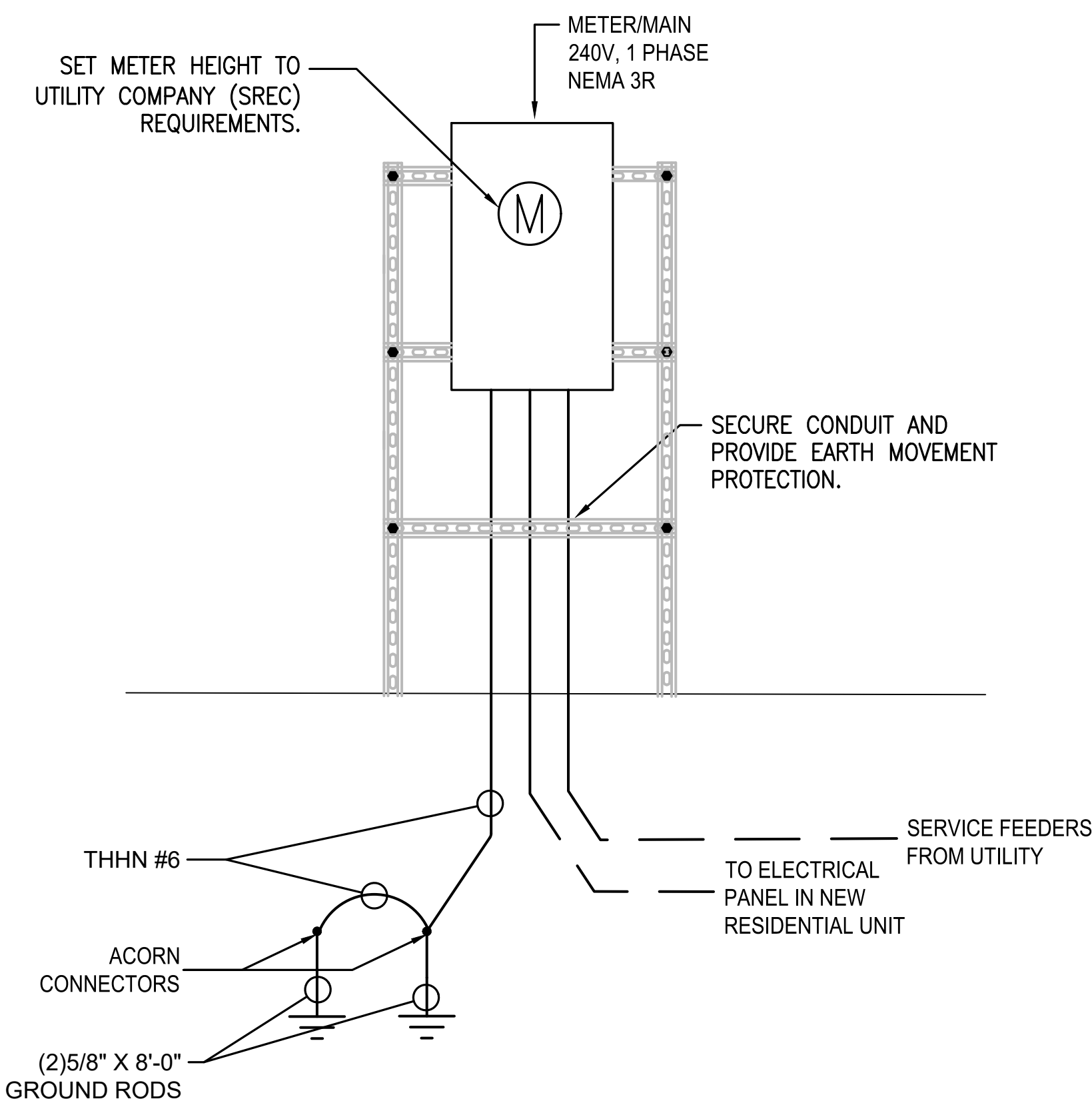
2. ELECTRICAL DEVICES AND LINWORK ARE SHOWN BOLD FOR NEW, BOLD/DASHED FOR DEMO & RELOCATED AND MEDIUM/DASHED FOR EXISTING.
3. DIMENSIONED LENGTHS SHALL TAKE PRECEDENCE OVER SCALED LENGTHS.
4. FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT IS SHOWN.
5. COORDINATE ALL DEVICE/EQUIPMENT LOCATIONS AND SPECIFIC REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ROUGH-IN.



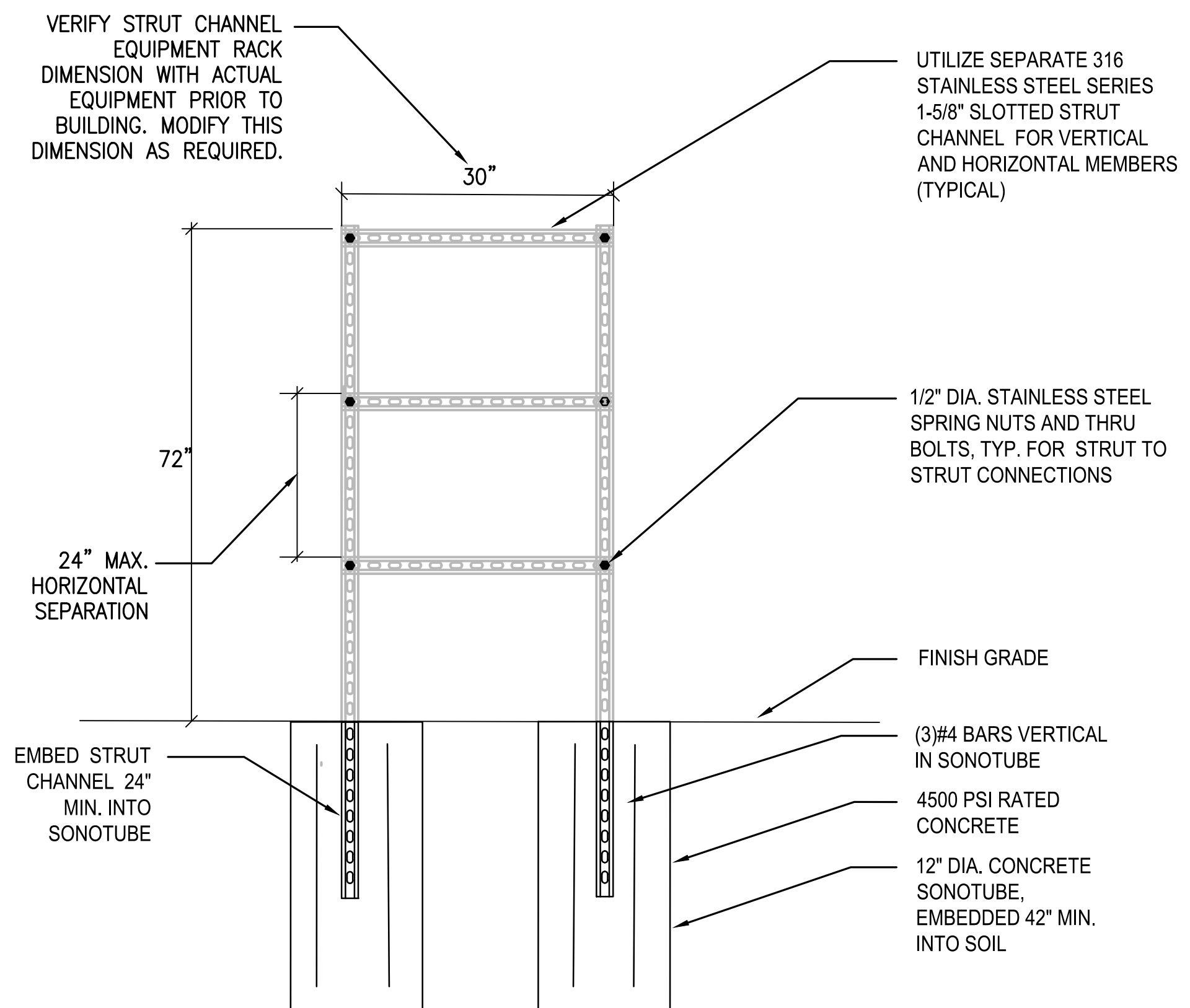
**1 TYPICAL HEIGHTS DETAIL**  
 E0.0 SCALE: NTS



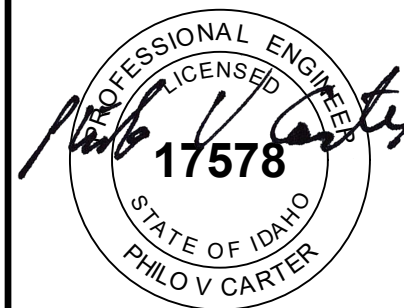
**2 TRENCHING DETAIL**  
 E0.0 SCALE: NTS



**3 METER/MAIN RACK ELEVATION**  
 E0.0 SCALE: NTS



**4 METER/MAIN RACK DETAIL**  
 E0.0 SCALE: NTS



1-31-24

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
 STANLEY, ID

PROJECT NAME:

SHEET TITLE:

**ELECTRICAL COVER**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

SHEET **E0.0**

# ELECTRICAL SHEET SPECIFICATIONS

## PART 1 – GENERAL

### 1.1 SCOPE OF WORK

FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL ASSOCIATED LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK INTENDED BY OR INFERRED FROM THIS SHEET SPECIFICATION AND DRAWING PACKAGE, AND ALL OTHER WORK AND OR MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION, INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING OF THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE AND READY FOR OPERATION. THIS PROJECT INCLUDES GENERAL POWER, LIGHTING, AND COMMUNICATIONS SYSTEM RACEWAY. FIRE ALARM SYSTEM, IF REQUIRED, IS TO BE DESIGN/BUILD BY ELECTRICAL CONTRACTOR. COMMUNICATIONS SYSTEM CABLING AND HEAD-END EQUIPMENT IS BY OWNER.

### 1.2 CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL COMPLY WITH LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THE MOST CURRENT ADOPTED VERSIONS OF OSHA, THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING AND FIRE CODES, NFPA, AND OTHER APPLICABLE STATE AND LOCAL CODES, LAWS AND REGULATIONS. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS.

### 1.3 LICENSE, FEES AND PERMITS

ELECTRICAL CONTRACTOR IS TO ARRANGE FOR REQUIRED INSPECTIONS AND PAY ALL LICENSE, PERMIT AND INSPECTION FEES.

### 1.4 CONDITIONS AT SITE

VISIT TO SITE IS REQUIRED OF ALL BIDDERS PRIOR TO SUBMISSION OF BID. ALL BIDDERS WILL BE HELD TO HAVE FAMILIARIZED THEMSELVES WITH ALL DISCERNIBLE CONDITIONS AND NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF THESE CONDITIONS, WHETHER SPECIFICALLY MENTIONED OR NOT. LINES OF OTHER SERVICES THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL PROMPTLY BE REPAIRED AT NO EXPENSE TO THE OWNER TO COMPLETE SATISFACTION OF THE OWNER.

### 1.5 SAFETY

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL HAVE AN ESTABLISHED SAFETY PLAN THAT ALL EMPLOYEES ARE TRAINED ON.

### 1.6 GUARANTEE

GUARANTEE THE INSTALLATION FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF CERTIFICATE OF FINAL PAYMENT AND PROMPTLY REMEDY ANY DEFECTS DEVELOPING DURING THIS PERIOD, WITHOUT CHARGE.

### 1.7 SUBSTITUTIONS

WHEREVER POSSIBLE, MORE THAN ONE MANUFACTURER HAS BEEN LISTED FOR VARIOUS ITEMS OF EQUIPMENT, ANY ONE OF WHICH WILL BE ACCEPTABLE. BASE THE BID ON USE OF MATERIALS SPECIFIED. IF, AFTER AWARD OF THE CONTRACT, A SUBSTITUTE IS PROPOSED, THE REQUEST FOR PERMISSION TO SUBSTITUTE SHALL BE ACCOMPANIED WITH A STATEMENT OF THE AMOUNT OF MONEY TO BE RETURNED TO THE CONTRACT IF THE SUBSTITUTE IS PERMITTED. THE OWNER IS THE SOLE JUDGE OF ACCEPTABILITY OF PROPOSED SUBSTITUTIONS, IF A SUBSTITUTE ITEM IS PERMITTED, AND ANY REDESIGN EFFORT IS THEREBY NECESSITATED, THE REQUIRED REDESIGN SHALL BE AT THE CONTRACTOR'S EXPENSE.

### 1.8 SHOP DRAWINGS AND MATERIALS LISTS

SUBMIT TO THE OWNER, SEVEN (7) COPIES OF COMPLETE SHOP DRAWINGS AND MATERIALS LISTS FOR REVIEW WITHIN FOURTEEN (14) DAYS AFTER AWARD OF CONTRACT, ALL PROPOSED DEVIATIONS FROM SPECIFICATIONS MUST BE CLEARLY LISTED UNDER A PROMINENT HEADING ENTITLED "DEVIATIONS".

### 1.9 WORKMANSHIP

ONLY QUALITY WORKMANSHIP WILL BE ACCEPTED. HAPHAZARD OR POOR INSTALLATION PRACTICE WILL BE CAUSE FOR REJECTION OF WORK.

### 1.10 COORDINATION

COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED BY OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE FABRICATING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK AND OR DELAYS.

### 1.11 CUTTING AND PATCHING

ALL CUTTING AND PATCHING REQUIRED FOR WORK OF THIS DIVISION IS

INCLUDED HEREIN. COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES IS IMPERATIVE.

### 1.12 SITE CLEANUP

- AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED CONDUIT, FIXTURES, EQUIPMENT AND SUPPORTS. TOUCH UP PAINT ON ANY EQUIPMENT SCRAPPED OR SCRATCHED DURING CONSTRUCTION. DAMAGED EQUIPMENT CAUSED BY THIS CONTRACTOR WILL BE REPLACED.
- LEAVE ALL AREAS INVOLVING ELECTRICAL WORK IN A CONDITION SATISFACTORY TO THE OWNER. REMOVE ALL CRATES, CARDBOARD, PACKING MATERIAL, WASTE MATERIAL, AND OTHER DEBRIS LEFT OVER FROM CONSTRUCTION DAILY.

## PART 2 – PRODUCTS

### 2.1 MATERIAL APPROVAL

ALL MATERIALS MUST BE NEW AND BEAR U.L. LABEL. MATERIALS THAT ARE NOT COVERED BY UL TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OF A GOVERNMENTAL AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION.

### 2.2 WIRES AND CABLES

- CONDUCTORS FOR 600V SYSTEMS AND BELOW SHALL BE STRANDED COPPER (UNLESS NOTED OTHERWISE), #12 AWG MINIMUM.
- INSULATION SHALL BE THWN FOR WET LOCATIONS AND THHN FOR DRY LOCATIONS.

### 2.3 OUTLET BOXES, JUNCTION AND PULL BOXES

- OUTLET BOXES SHALL BE GALVANIZED OR CADMIUM PLATED STEEL SIZED AS PER N.E.C. OR AS NOTED. UTILIZE RESIDENTIAL-GRADE PLASTIC HANGER BOXES FOR NETWORK/COMMUNICATIONS CONNECTION POINTS. USE FOUR (4) INCH SQUARE OCTAGON BOX FOR FIXTURES AND TILE TYPE DEVICE BOXES.

### 2.4 WIRING DEVICES

- PROVIDE AND INSTALL ALL WIRING DEVICES WITH COVERPLATES AS NOTED ON THE PLANS. DEVICES AND COVER PLATES SHALL MATCH THE EXISTING COLOR AND TYPE.
- DEVICES: WALL SWITCHES AND CONVENIENCE OUTLETS SHALL BE RATED FOR 20-AMP, 125-VOLT (NEMA 5-20 ANSI C73.12) SPECIFICATION GRADE DEVICES EXCEPT AS NOTED. RESIDENTIAL GRADE DEVICES ARE NOT PERMITTED.
- PROVIDE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STDS. PUB. NO. WD1.
- PROVIDE WIRING DEVICES (OF PROPER VOLTAGE RATING) AS FOLLOWS:

MEGR	C.O.'S	1-POLE	3-WAY	4-WAY	W/PILOT
HUBBELL	5362 L	1221 L	1223 L	1234 L	1221-P1 L
P&S	5362 L	20AC1 L	20AC3 L	20AC4 L	20AC1-CPL
LEVITON	5362 L	1223 L	1223 L	1224 L	

- COVER PLATES: ALL DEVICES SHALL HAVE COVERPLATES. THEY SHALL HAVE A PLAIN FLAT SURFACE WITH BEVELED EDGES COMPATIBLE WITH THE DEVICE. THE COVER PLATES IN THE SHOP, PARTS, TOOL ROOM AND FIRE RISER ROOM SHALL BE STAINLESS STEEL. COVER PLATES IN ALL OFFICE TYPE AREAS, SHOWROOM, RESTROOM AND HALLWAYS SHALL BE HIGHLY IMPACT RESISTANT (NYLON OR LEXAN) AND SHALL MATCH THE COLOR OF THE ASSOCIATED DEVICE.

- EMPTY BOXES: SHALL BE COVERED WITH MATCHING COVERPLATES. PROVIDE HARDWARE AS NEEDED.

- EXTERIOR DEVICES SHALL BE 20A GFCI TYPE WITH WATERPROOF HIGHLY IMPACT RESISTANT CLEAR WHILE IN USE TYPE COVER.

### 2.5 WIRE CONNECTORS

- FOR WIRE SIZES #8 AWG AND SMALLER: INSULATED PRESSURE TYPE (WITH LIVE SPRING) RATED 105°C, 600V, FOR BUILDING WIRING AND 1000V IN FIXTURES, SCOTCHLOK OR IDEAL.
- FOR WIRE SIZES #6 AWG AND LARGER: T&B OR EQUIVALENT COMPRESSION TYPE WITH 3M #33+ OR PLYMOUTH "SLIPKNOT GREY" TAPE INSULATION.

### 2.6 PANELBOARD

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER. PROVIDE PANELBOARDS AS INDICATED ON SCHEDULES, WITH THE FOLLOWING FEATURES: TINNED

ALUMINUM BUS (98 PERCENT CONDUCTIVITY), MECHANICAL-TYPE MAIN AND NEUTRAL LUGS, NEUTRAL BUS RATED 100 PERCENT OF PHASE BUS, GROUND BUS BONDED TO ENCLOSURE, BOLT-ON MOLDED-CASE THERMAL-MAGNETIC BREAKERS.

### 2.7 RACEWAYS

#### A. OUTDOORS:

EXPOSED: RIGID STEEL OR INTERMEDIATE METAL CONDUIT  
CONCEALED: RIGID STEEL OR INTERMEDIATE METAL CONDUIT  
UNDERGROUND: RIGID NON-METALLIC CONDUIT  
TO VIBRATING EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT

#### B. INDOORS:

EXPOSED: ELECTRICAL METALLIC TUBING, RIGID STEEL CONDUIT, PVC-COATED RIGID STEEL CONDUIT  
CONCEALED: ELECTRIC METALLIC TUBING, METAL CLAD (WHERE ALLOWED BY AHJ)  
DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT  
TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT

## PART 3 – EXECUTION

### 3.1 – GENERAL

- ELECTRIC SYSTEM LAYOUTS INDICATED ON THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
- CONSULT ALL OTHER DRAWINGS. VERIFY SCALES AND REPORT ANY DIMENSIONAL DISCREPANCIES OR OTHER CONFLICTS TO ARCHITECT BEFORE SUBMITTING BID.
- ALL HOME RUNS ARE INDICATED AS STARTING FROM THE DEVICE NEAREST THE PANEL AND CONTINUING IN THE GENERAL DIRECTION OF THAT PANEL. CONTINUE SUCH CIRCUITS TO THE PANEL AS THOUGH THE ROUTES WERE COMPLETELY INDICATED.
- AVOID CUTTING AND BORING HOLES THROUGH STRUCTURE OR STRUCTURAL MEMBERS WHEREVER POSSIBLE. OBTAIN PRIOR APPROVAL OF ARCHITECT AND CONFORM TO ALL STRUCTURAL REQUIREMENTS WHEN CUTTING OR BORING THE STRUCTURE IS NECESSARY AND PERMITTED.

### 3.2 – ELECTRICAL GROUNDING

GROUND ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 250. IN ADDITION PROVIDE A SEPARATE GROUND WIRE FOR ALL FEEDERS AND BRANCH CIRCUITS.

### 3.3 – ELECTRICAL EQUIPMENT INSTALLATION

- HEAD ROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.
- MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
- EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
- RIGHT OF WAY: COORDINATE INSTALLATION OF ELECTRICAL DEVICES WITH OTHER TRADES.

### 3.4 – RACEWAY AND CABLE INSTALLATION RACEWAY:

- ABOVE GRADE: RIGID STEEL OR IMC IN WET LOCATIONS, WHERE SUBJECT TO MECHANICAL DAMAGE AND IN CONCRETE OR BLOCK WALLS, EMT IN OTHER LOCATIONS WHERE PERMITTED BY CODE. METAL CLAD ONLY WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- CONCEAL RACEWAYS AND CABLES WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
- INSTALL RACEWAYS AND CABLES AT LEAST SIX (6) INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.
- USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.
- MAKE CONDUIT BENDS AND OFFSETS SO INSIDE DIAMETER IS NOT REDUCED. KEEP LEGS OF BENDS IN THE SAME PLANE AND STRAIGHT LEGS OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- USE RACEWAY FITTINGS AND CABLE FITTINGS COMPATIBLE WITH RACEWAYS AND CABLES AND SUITABLE FOR THIS APPLICATION AND LOCATION.
- INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB

THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH OF CONCRETE COVER.

- SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT.
- SPACE RACEWAYS Laterally TO PREVENT VOIDS IN CONCRETE.
- INSTALL CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE CONDUIT IS AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.
- TRANSITION FROM NONMETALLIC TUBING TO RIGID STEEL CONDUIT, OR IMC BEFORE RISING ABOVE FLOOR.
- MAKE EXPOSED BENDS FOR BANKED RUNS FROM SAME CENTERLINE IN ORDER THAT BENDS ARE PARALLEL. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR EXPOSED PARALLEL RACEWAYS.

### CABLES:

- INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12-INCHES OF SLACK AT EACH END OF PULL WIRE.
- INSTALL TELEPHONE AND SIGNAL SYSTEM RACEWAYS, 2-INCH TRADE SIZE AND SMALLER, IN MAXIMUM LENGTHS OF 150 FEET (45 M) AND WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS, IN ADDITION TO REQUIREMENTS ABOVE.
- CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LFMC IN WET OR DAMP LOCATIONS. INSTALL A SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- SET FLOOR BOXES LEVEL AND TRIM AFTER INSTALLATION TO FIT FLUSH TO FINISHED FLOOR SURFACE.
- CONDUCTORS: TYPE THHN/THWN INSULATED CONDUCTORS IN RACEWAY.
- INSTALL SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- INSTALL WIRING AT OUTLETS WITH AT LEAST 12 INCHES OF SLACK CONDUCTOR AT EACH OUTLET.
- CONNECT OUTLET AND COMPONENT CONNECTIONS TO WIRING SYSTEMS AND TO GROUND. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

### 3.5 IDENTIFICATION

- PROVIDE ENGRAVED 3 LAYER LAMINATE PLASTIC NAMEPLATES FOR PANELBOARDS, DISCONNECT SWITCHES AND ALL SIMILAR DEVICES.
- COLOR-CODE 480/277-VOLT SYSTEM THREE PHASE SERVICE, FEEDERS, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
  - PHASE A: BROWN
  - PHASE B: ORANGE
  - PHASE C: YELLOW
  - NEUTRAL: GRAY
  - GROUND: GREEN WITH YELLOW STRIPE
- COLOR-CODE 208/120-VOLT SYSTEM THREE PHASE SERVICE, FEEDERS, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
  - PHASE A: BLACK
  - PHASE B: RED
  - PHASE C: BLUE
  - NEUTRAL: WHITE
  - GROUND: GREEN

### 3.7 OPERATING AND MAINTENANCE INSTRUCTIONS (O+M MANUAL)

PREPARE THREE (3) COPIES FOR ALL EQUIPMENT.

### 3.8 RECORD AS-BUILTS

PROVIDE (1) CLEAN, LEGIBLE COPY OF DRAWINGS TO ENGINEER INDICATING ALL DEVIATIONS FROM INITIAL DESIGN (AS-BUILT CONDITIONS).



Myers Anderson

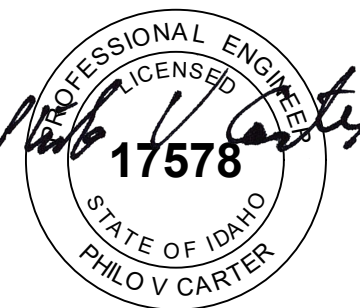
Historic Preservation  
Interior Design  
Architecture  
122 South Main Street • Peconic, NY 06204 • Tel. (203) 232-3741 • Fax (203) 232-3782

### 3.9 STRUT CHANNEL – MANUFACTURERS

SUBJECT TO COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE DRAWINGS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- UNISTRUT
- COOPER B-LINE
- ALLIED TUBE & CONDUIT
- THOMAS & BETTS
- WESANCO
- GS GLOBAL METAL
- APPROVED EQUAL

END OF SECTION



1-31-24

ITD MOBILE HOME UNIT AND SITE DESIGN  
STANLEY, ID

PROJECT NAME:

SHEET TITLE:

ELECTRICAL COVER

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

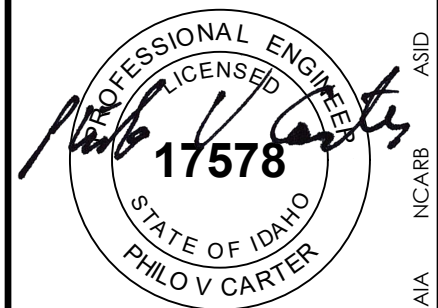
REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

ARCH. JOB NUMBER: 23607

SHEET ISSUED DATE: JANUARY 2024

SHEET E0.1



1-31-24

**ITD MOBILE HOME UNIT AND SITE DESIGN**  
 STANLEY, ID

PROJECT NAME:

SHEET TITLE:

**ELECTRICAL SITE PLAN**

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS

REVISION DATE

CLIENT PROJ. NUMBER: ITD23-0375

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SHEET ISSUED DATE: JANUARY 2024

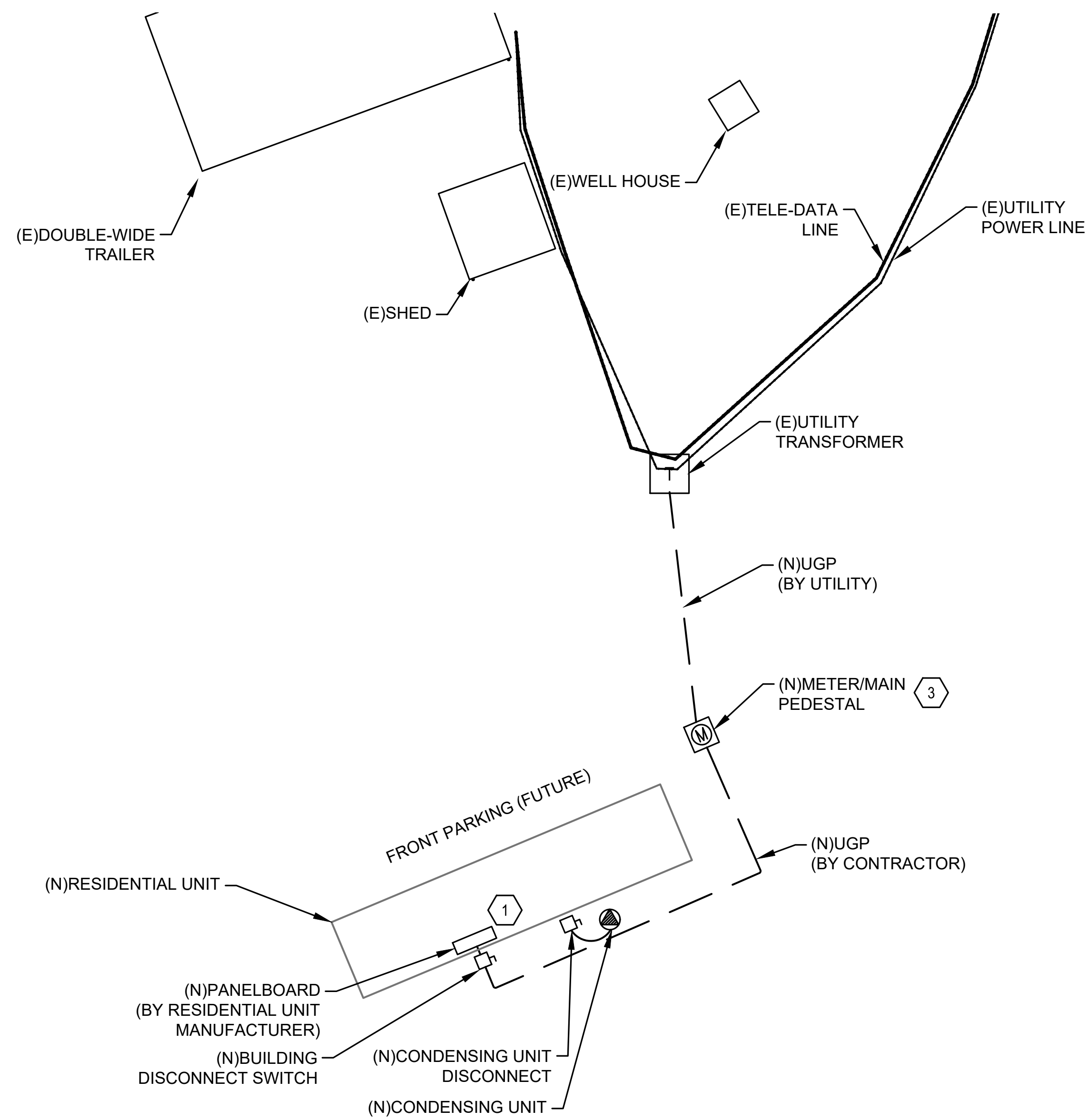
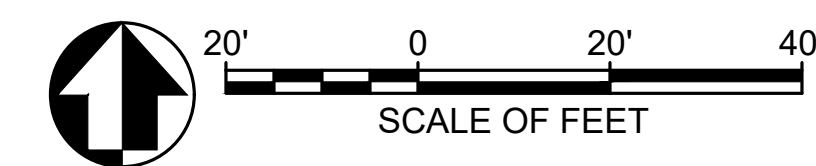
SHEET **E1.0**

**SHEET NOTES:**

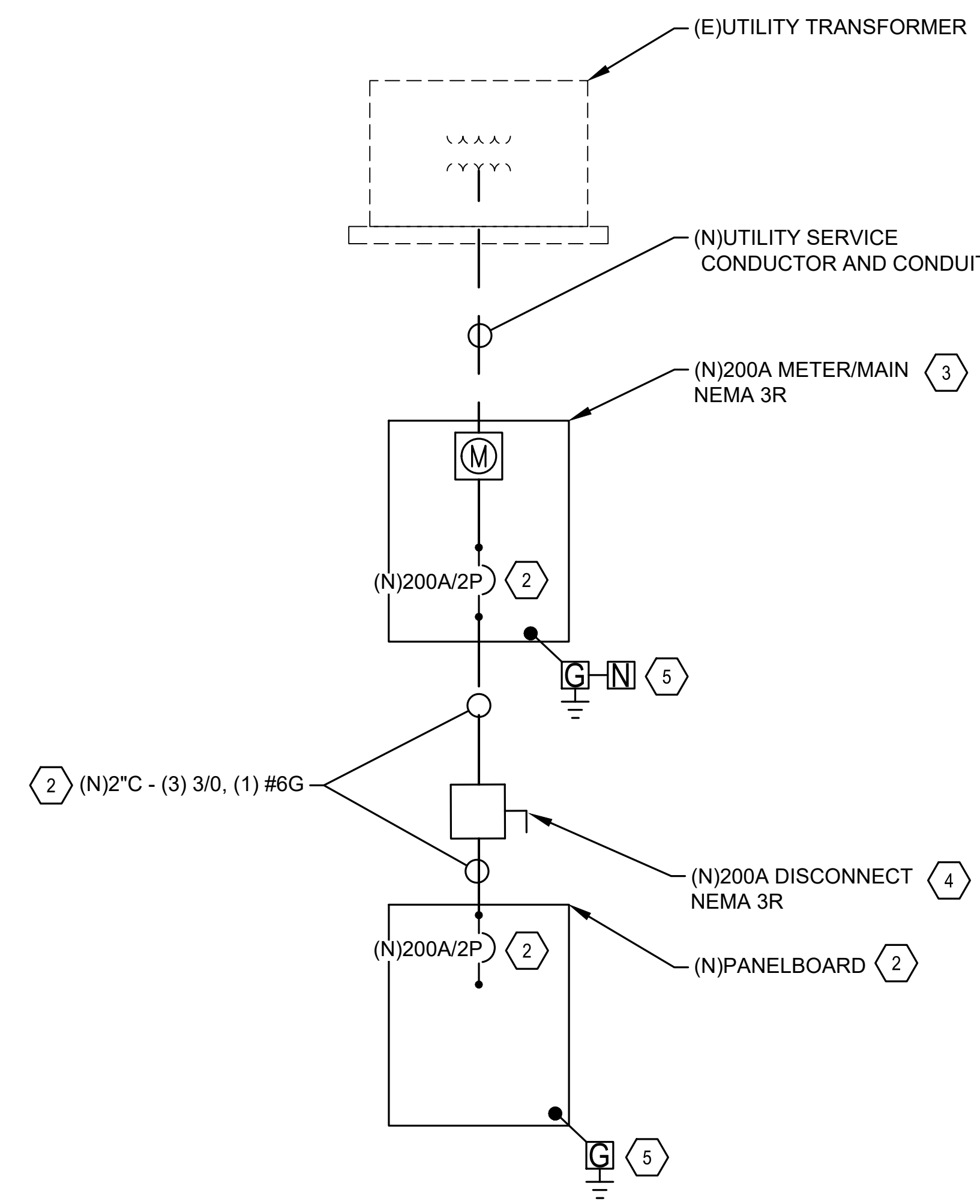
1. SITE PLAN SHOWS PROPOSED ELECTRICAL INSTALLATION FOR NEW RESIDENTIAL UNIT AND METER/MAIN.
2. CONTRACTOR GROUND METER/MAIN PEDESTAL AND NEW RESIDENTIAL UNIT PER NEC 250.
3. CONTRACTOR MAKE ALL CONNECTIONS FROM METER/MAIN TO RESIDENTIAL UNIT INDOOR PANEL.
4. CONTRACTOR TO LABEL METER/MAIN TO MATCH ADDRESS OF NEW RESIDENTIAL UNIT.
5. CONTRACTOR VERIFY NEC SERVICE OUTLET REQUIREMENTS MET FOR HVAC INSTALLATION. INSTALL 125V/20A OUTLET IF NECESSARY (GFCI PROTECTION AND WEATHERPROOF COVER REQUIRED FOR AN OUTDOOR OUTLET).
6. RESIDENTIAL UNIT MANUFACTURER TO MAKE ALL INDOOR CONNECTIONS.
7. UTILITY COMPANY CONTACT INFORMATION:  
 SALMON RIVER ELECTRIC COOPERATIVE (SREC)  
 DENNIS SWINDELL, OPERATIONS MGR.  
 (208) 879-2283 EXT. 106  
 dennis@srec.org

**KEYNOTES:**

1. PANEL LOCATION INDOORS, NEAR BACK EXIT OF NEW RESIDENTIAL UNIT.
2. THE RESIDENTIAL PANELBOARD SIZE AND CIRCUIT BREAKERS ARE DETERMINED BY THE MANUFACTURER OF THE RESIDENCE. CONTRACTOR ADJUST METER/MAIN BREAKER SIZE, CONDUIT, DISCONNECT, AND CONDUCTOR SIZES FROM METER/MAIN TO RESIDENTIAL PANEL BASED ON FINAL SELECTION OF MAIN BREAKER SIZE IN THE RESIDENTIAL PANEL.
3. INSTALL METER/MAIN AND ASSOCIATED EQUIPMENT IN ACCORDANCE WITH UTILITY (SREC) REQUIREMENTS FOR UNDERGROUND SERVICE. COORDINATE INSTALLATION WITH UTILITY (SREC).
4. INSTALL 200A/2P BUILDING DISCONNECT, SQUARE D DTU224NRB OR EQUAL. NEMA 3R ENCLOSURE REQUIRED. SEE KEYNOTE NO.2 REGARDING FINAL SIZES OF ELECTRICAL EQUIPMENT.
5. CONTRACTOR GROUND PER NEC 250.



**1 ELECTRICAL SITE PLAN**  
 E1.0 SCALE: 1" = 20'-0"



**2 ONE-LINE DIAGRAM**  
 E1.0 SCALE: NTS