

REPLACE 5 BASIC SITES WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK

BRANSON, MISSOURI

CONSTRUCTION DOCUMENTS

OWNERS: STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

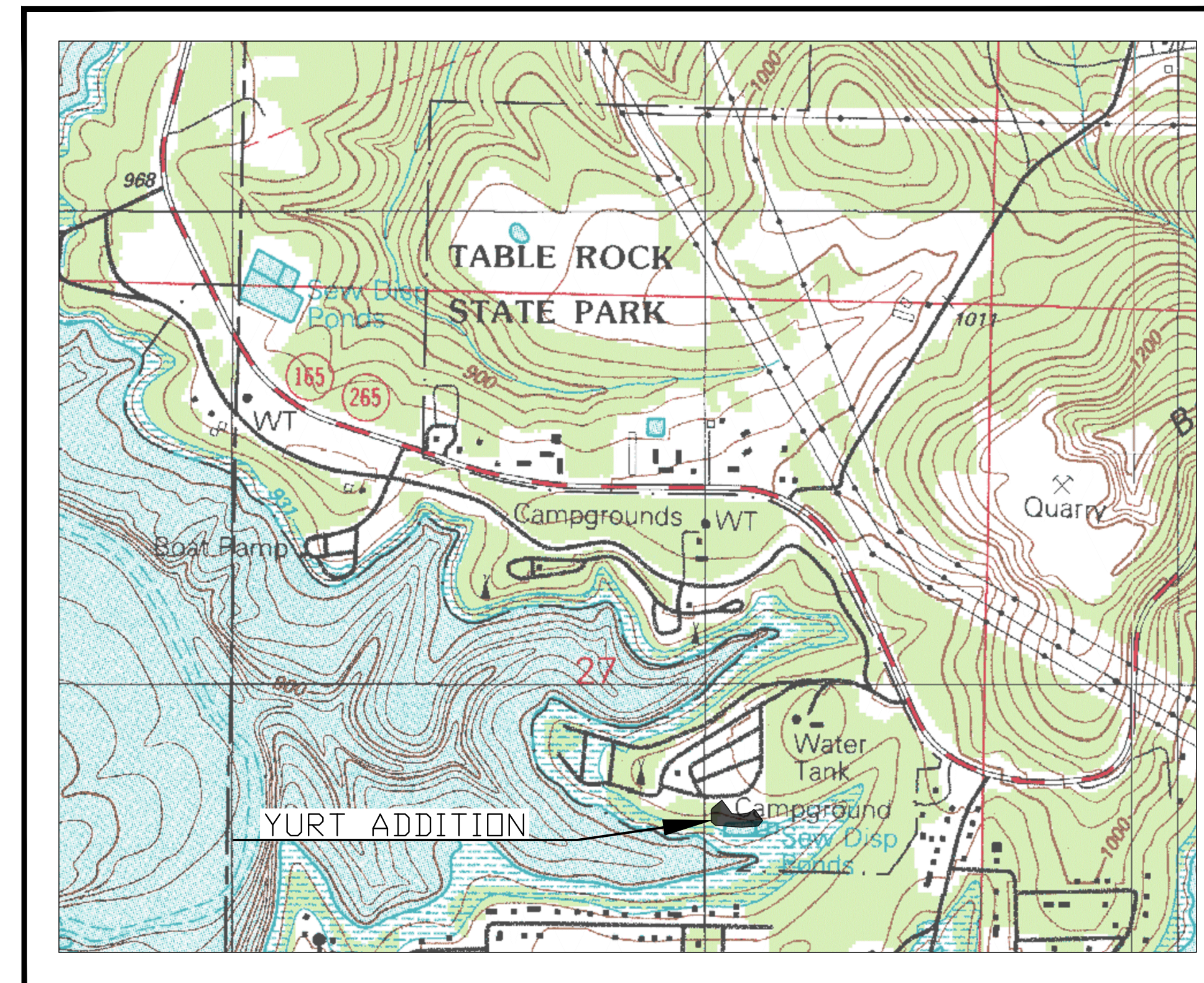
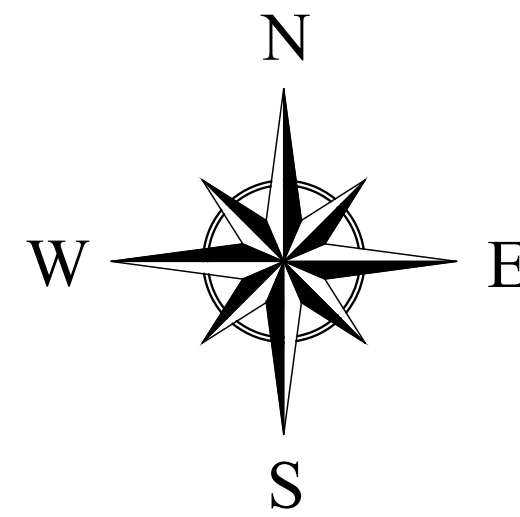
MISSOURI DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

PROJECT #: X2215-01

SITE #: 5603

ASSET #: 7815603018



SECTION 27, TOWNSHIP 22N, RANGE 22W
TANEY COUNTY, MISSOURI

LEGEND

○	IRON PIN SET (TYPICAL) GREAT RIVER 2001011476	⊗	WATER VALVE
●	IRON PIN FOUND, AS NOTED	⊕	FIRE HYDRANT
✕	CUT CROSS	⊕	WATER HYDRANT
▲	RIGHT OF WAY MARKER	⊕	IRRIGATION SPRINKLER HEAD
■	STONE	⊕	IRRIGATION CONTROL VALVE
CP	CONTROL POINT	⊕	MAIL BOX
◆	PERMANENT BENCHMARK	⊕	SIGN
---	CONTOUR MAJOR	⊕	POST
- - -	CONTOUR MINOR	⊕	FLAG POLE
⊕	DECIDUOUS TREE, SIZE AS NOTED	⊕	AIR CONDITIONING UNIT
⊕	CONIFER TREE, SIZE AS NOTED	⊕	CABLE TV RISER
⊕	BUSH, SIZE AS NOTED	⊕	BORE HOLE, AS NOTED
⊕	LIGHT POLE	⊕	SANITARY SEWER LINE
⊕	POWER POLE	⊕	FENCE CHAIN-LINK
⊕	ELECTRIC RISER	⊕	WIRE
⊕	ELECTRIC BOX	⊕	WOOD
⊕	ELECTRIC METER	⊕	WOVEN WIRE
⊕	GUT WIRE ANCHOR	⊕	POLY VINYL
⊕	PEDESTAL, AS NOTED	⊕	ELECTRIC LINE
⊕	SANITARY SEWER CLEAN OUT	⊕	UNDERGROUND ELECTRIC LINE
⊕	GRINDER PUMP	⊕	TELEPHONE LINE
⊕	SEPTIC TANK	⊕	UNDERGROUND TELEPHONE LINE
⊕	SANITARY SEWER MANHOLE	⊕	CABLE TV LINE
⊕	STORM SEWER MANHOLE	⊕	GAS LINE
⊕	TELEPHONE MANHOLE	⊕	WATER LINE
⊕	TELEPHONE RISER	⊕	GAS & WATER LINE
⊕	GAS VALVE	⊕	FIBER OPTIC LINE
⊕	GAS METER	⊕	IRRIGATION LINE
⊕	WELL	⊕	FORCE MAIN LINE
⊕	WATER METER	⊕	TREE LINE
		⊕	FLOWLINE



ID	NORTHING	EASTING	ELEV.	DESCRIPTION
1	272219.3386	1405291.7581	965.17	CP1 60D
2	272098.8723	1405097.0978	957.31	CP2 60D
3	271457.1901	1405287.2088	940.53	CP3 60D
4	271437.3401	1405108.5624	939.23	CP4 60D

HORIZONTAL COORDINATES ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, CENTRAL ZONE.

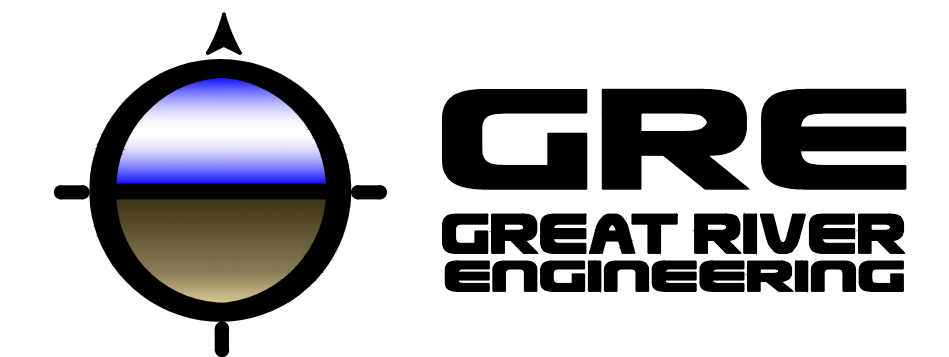
BENCHMARK DATA:
BM1 - X IN SQUARE CUT OF SOUTHWEST CORNER OF CONCRETE PAD FOR TRASH BIN. BIN LOCATED IMMEDIATELY EAST OF PAD SITE 240.
ELEVATION = 970.38'

BM2 - X IN SQUARE CUT OF NORTHWEST CORNER OF CONCRETE SIDEWALK ON NORTH SIDE AND WEST END OF SHOWER BUILDING.
ELEVATION = 962.19'

BM3 - X IN SQUARE CUT OF NORTHWEST CORNER OF CONCRETE PAD FOR WATER HYDRANT LOCATED EAST OF PAD SITE 286 AND IMMEDIATELY SOUTH OF SANITARY SEWER LIFT STATION.
ELEVATION = 942.04'

VERTICAL DATUM: NAVD88

DESIGNER:
GREAT RIVER ENGINEERING
2826 S. INGRAM MILL ROAD
SPRINGFIELD, MO 65804
PHONE: (417) 886-7171
www.greatriv.com



Great River Engineering - Missouri State Certificate of Authority Numbers:
Engineering: 2000156885, Land Surveying: 2001011476,
Landscape Architecture: 2007013673

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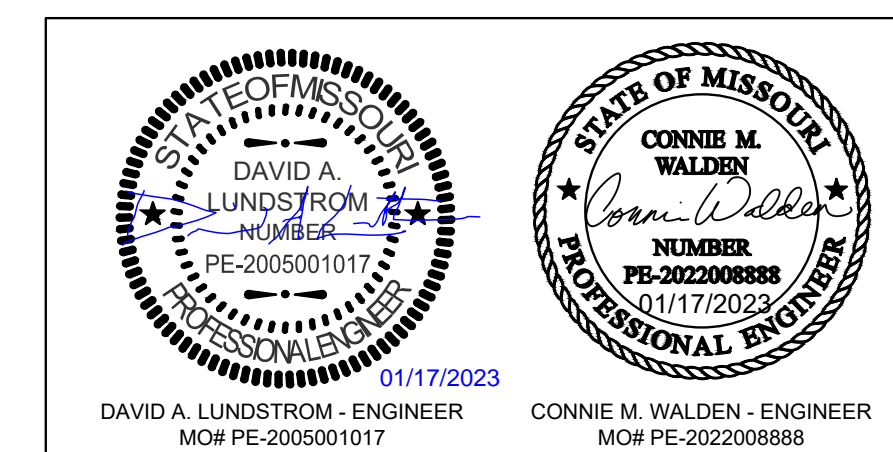
UTILITY CONTACTS

ELECTRIC
WHITE RIVER VALLEY ELECTRIC COOPERATIVE
JOE DONOVAN
PHONE: (417) 335-9335

UTILITY DISCLAIMER

THE UNDERGROUND UTILITIES DEPICTED ON THIS SURVEY, ARE THOSE DISCOVERED BY FIELD INSPECTION, OR LOCATED BY UTILITY COMPANY REPRESENTATIVES; AND MAY NOT BE ALL THE UTILITIES ON OR NEAR THE PROPERTY. AFTER USING REASONABLE CARE IN THE LOCATION OF THOSE UTILITIES SHOWN, WE REFRAIN FROM WARRANTING EITHER THE LOCATION OF, OR COMPLETENESS OF, THOSE UTILITIES SHOWN, AS BEING ALL UTILITIES POSSIBLY AFFECTING THE SUBJECT PROPERTY.

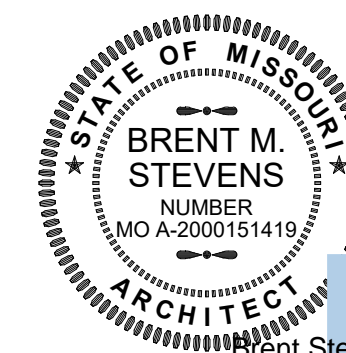
WATER & SANITARY SEWER
TABLE ROCK STATE PARK
WATER SYSTEM
CAYLEN CANTRELL
PHONE: (417) 334-4704



SHEET NUMBER:

G-001

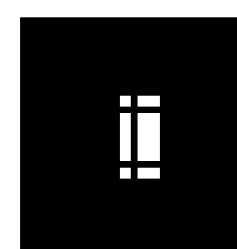
1 OF 32 SHEETS
JANUARY 17, 2023



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by Brent Stevens
Date: 2023.01.17
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hdesignsgroup
architecture + design

5035 S National Avenue Springfield, MO 65810 | 417.887.6595



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: JANUARY 17, 2023

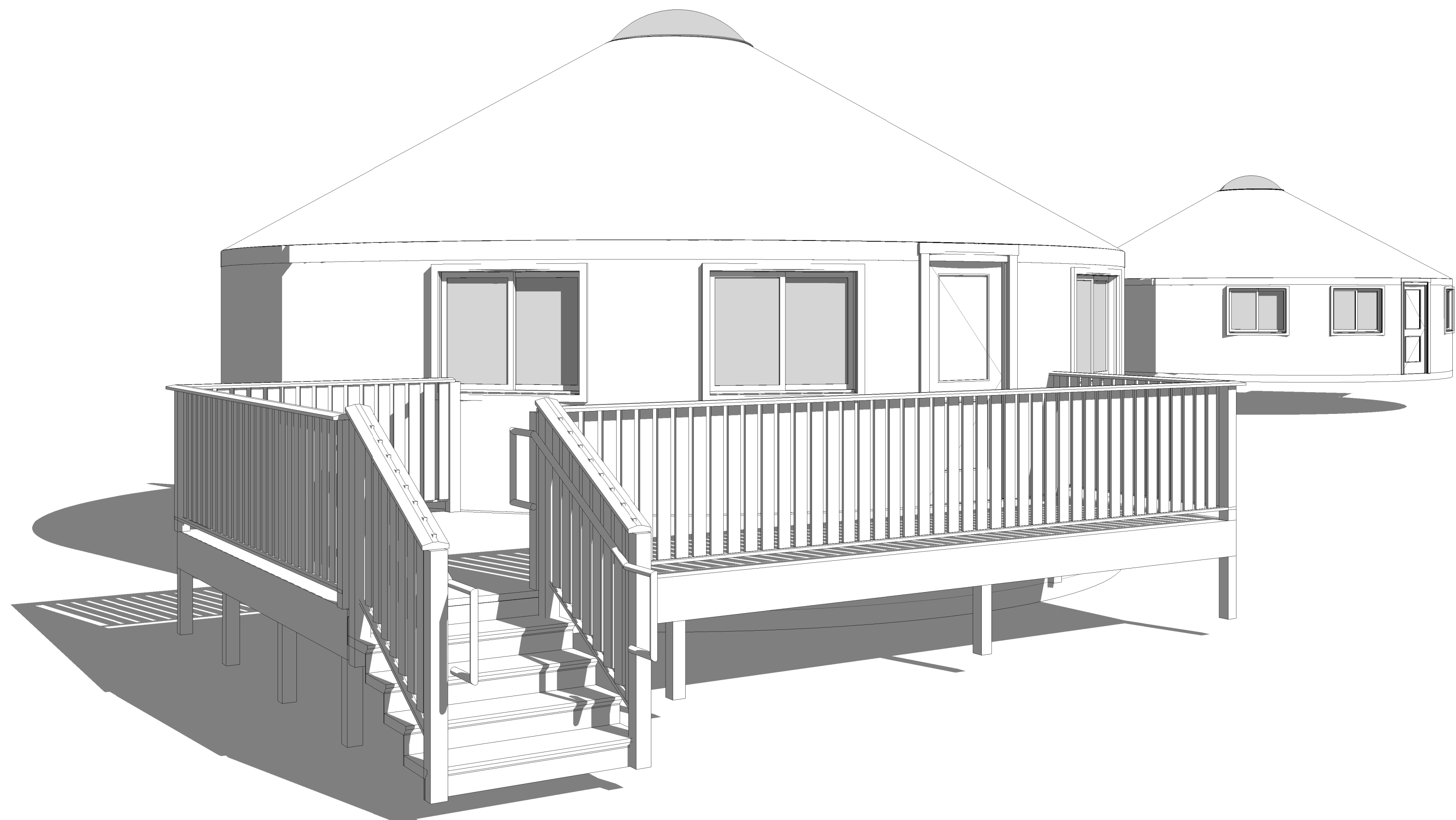
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DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

G-101

SHEET 2 OF 32
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*ARTIST'S DEPICTION/RENDERING OF PROJECT FOR GRAPHICAL PURPOSES ONLY - DO NOT CONSTRUCT FROM THIS DEPICTION

GENERAL CONDITIONS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT INCLUDING "AIA DOCUMENT A001-2017 - GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" APPLY TO ALL AREAS OF THESE CONSTRUCTION DOCUMENTS.

ALL APPLICABLE INDUSTRY STANDARDS, ASTM CLASSIFICATIONS, MANUFACTURER'S SPECIFICATIONS, INSTITUTE CRITERIA, CODE REQUIREMENTS, AND CURRENT PUBLISHED MANUFACTURER OR INSTITUTE INSTALLATION INSTRUCTIONS AND SPECIFICATIONS SHALL BE APPLICABLE TO MATERIALS SPECIFIED IN THE FOLLOWING HEADINGS:

THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT ALL WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK, THE GENERAL CONTRACTOR SHALL OBTAIN A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.

THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE, THOROUGHLY REVIEW THE DRAWINGS AND SPECIFICATIONS, SO AS TO BE SURE ALL ANGLARY COSTS HAVE BEEN COVERED IN THE BID. THE OWNER WILL NOT ENTERTAIN REQUESTS FOR EXTRA COMPENSATION FOR WORK THAT SHOULD HAVE REASONABLY BEEN ANTICIPATED OR OBSERVED.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, AND TECHNIQUES OF CONSTRUCTION, SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, AND FOR THE ACTS AND OMISSIONS OF THE SUBCONTRACTORS.

THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL NOT SCALE THE DRAWINGS TO DETERMINE ANY DIMENSION. USE ONLY THE DIMENSIONS AS SHOWN ON THE DRAWINGS. SHOULD THERE BE A CRITICAL DIMENSION OMITTED OR AN UNCERTAINTY WITH THE DIMENSIONS SHOWN, VERIFY WITH THE ARCHITECT BEFORE PROCEEDING.

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THE VARIOUS MECHANICAL, ELECTRICAL, AND PLUMBING SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ALL MECHANICAL, PLUMBING, AND ELECTRICAL REQUIRED BY LOCAL, STATE AND FEDERAL CODES.

THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKMEN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW, OR OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.

EACH SUBCONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS (UNLESS NOTED OTHERWISE) EQUIPMENT, TOOLS, UTILITIES, INSURANCE, TAXES, TRANSPORTATION AND MISCELLANEOUS SERVICES REQUIRED FOR THE CONSTRUCTION OF THEIR PORTION OF THE SUBCONTRACT FOR THIS PROJECT AS INDICATED IN THESE DOCUMENTS, WHETHER TEMPORARY OR PERMANENT.

ALL SUBCONTRACTORS MUST COMPLY WITH RULES AND REGULATIONS OF AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CITY, STATE, AND FEDERAL CONSTRUCTION SAFETY AND SANITARY LAWS, CODES, STATUTES AND ORDINANCES.

ALL INSTALLED PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE QUIETLY AND FREE FROM EXCESS VIBRATION.

ALL ROOF PENETRATIONS, EQUIPMENT SUPPORTS, PITCH PANS, FLASHING, CURBING AND ROOFING REPAIRS SHALL BE ENGINEERED AND INSTALLED IN ACCORDANCE WITH STANDARD PROJECT ROOFING DETAILS, FACTORY MUTUAL INSURANCE AND ASSOCIATION'S SPECIFICATIONS, AND GUIDELINES PUBLISHED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION.

THE GENERAL CONTRACTOR SHALL NOTIFY SUBCONTRACTORS WHEN TELEPHONE SERVICE IS REQUIRED AT JOB SITE FOR WIRE OF PHONE EQUIPMENT.

SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR, CONTRACTOR SHOULD IMMEDIATELY NOTIFY ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.

ALL MATERIALS SHALL BE NEW, UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT, UNLESS OTHERWISE NOTED OR TO BE USED FOR FORMS AND/OR TEMPORARY STRUCTURES.

ALL SURFACES SHALL BE PROPERLY PREPARED BEFORE THE APPLICATION OF FINISH MATERIALS.

TO BEGIN THE APPLICATION OF A FINISH MATERIAL MEANS THAT THE SUBCONTRACTOR ACCEPTS THE SURFACE AND SUBSEQUENT RESPONSIBILITY FOR THE APPEARANCE OF THE FINAL FINISH.

ALL MATERIALS, FINISHES AND EQUIPMENT REQUIRED FOR THE COMPLETION OF THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, AS WELL AS GUIDELINES SET FORTH IN THESE DOCUMENTS.

ALL WORK BY ALL TRADES SHALL CONFORM TO AND BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, STANDARDS OR RESTRICTIONS WHETHER INDICATED ON DRAWINGS OR NOT. THE MORE STRINGENT TO GOVERN DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.

UPON COMPLETION OF THE PROJECT, A "PUNCH LIST" WILL BE COMPILED BY THE ARCHITECT, WHICH WILL CONSIST OF ITEMS IN NEED OF CORRECTION AND UNSATISFACTORY AND/OR INCOMPLETE WORK. FINAL PAYMENT WILL BE CONTINGENT UPON THE CORRECTION AND SUBSEQUENT APPROVAL OF THESE ITEMS.

THE GENERAL CONTRACTOR SHALL OBTAIN CERTIFICATE FOR OCCUPANCY FROM THE APPROPRIATE REGULATORY AGENCY BEFORE THE COMMENCEMENT OF THE PROJECT.

ALL CHANGES, OMISSIONS OR ADDITIONS TO THE SCOPE OF WORK DESCRIBED IN THESE CONTRACT DRAWINGS AND SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE ARCHITECT.

UNLESS NOTED OTHERWISE, ALL WORK SHALL INCLUDE NECESSARY APPURTENANCES AND ACCESSORIES TO PROVIDE COMPLETE OPERATING ASSEMBLIES, WHETHER OR NOT SHOWN OR DETAILED.

UPON COMPLETION OF THE WORK, REMOVE ALL WASTE MATERIALS, EQUIPMENT, DEBRIS AND CLEAN ALL EIGHT-EXPOSED SURFACES. TOUCH-UP PAINTING OF MARRED SURFACES AND REPAIR OF ALL DAMAGES LEAVING THE PROJECT READY FOR OCCUPANCY. TRASH SHALL BE REMOVED FROM PROJECT SITE AT SUBCONTRACTORS EXPENSE IF THE SUBCONTRACTOR FAILS TO HAVE THE SITE READY FOR OCCUPANCY. THE GENERAL CONTRACTOR MAY HIRE AN OUTSIDE AGENCY FOR THIS SERVICE AND THE COST MAY BE CHARGED TO THE CONTRACTOR.

ALL MILLWORK CONSTRUCTION SHALL CONFORM WITH ANI STANDARDS FOR PREMIUM MILLWORK. DRAWINGS SHALL INDICATE MILLWORK DESIGN INTENT ONLY. FABRICATOR IS RESPONSIBLE FOR PROPER EXECUTION AND SHALL SUBMIT SHOP DRAWINGS FOR DESIGN REVIEW.

SPECIAL NOTICE

IN THE EVENT THE CLIENT CONSENTS TO, ALLOWS, AUTHORIZES OR APPROVES CHANGES TO ANY PLANS, SPECIFICATIONS, OR OTHER CONSTRUCTION DOCUMENTS AND THESE CHANGES ARE NOT APPROVED IN WRITING BY THE DESIGN PROFESSIONAL, THE CLIENT RECOGNIZES THAT SUCH CHANGES AND THE RESULT THEREOF ARE NOT THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL. THEREFORE, THE CLIENT AGREES TO RELEASE THE DESIGN PROFESSIONAL FROM ANY LIABILITY ARISING FROM THE CONSTRUCTION, USE OR RESULT OF SUCH CHANGES. IN ADDITION, THE CLIENT AGREES TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY DAMAGE, LIABILITY, OR COST (INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF DEFENSE) ARISING FROM SUCH CHANGES.

GENERAL NOTES

NOTE: YURT PACKAGE BASIS OF DESIGN TO BE PACIFIC YURTS INC. 30' YURT. YURT PACKAGE SHALL INCLUDE STANDARD AND OPTIONAL FEATURES LISTED BELOW.

- LATTICE WALL
- RAFTERS
- CENTER RING
- EXTERIOR ENTRY DOOR & FRAME
- TINTED ACRYLIC DOME
- TENSION CABLE
- SIDE COVER
- WALL INSULATION
- VINYL DOUBLE PANE SLIDING WINDOWS
- TOP COVER
- ROOF INSULATION
- RAIN DIVERTER
- HARDWARE
- SNOW AND WIND KIT WITH STANDARD HARDWARE
- PERIMETER BLOCKING
- 2X6 RAFTER/RING/HARDWARE UPGRADE
- FAN SUPPORT
- INSTRUCTIONS

BASE BID & ALTERNATES NOTES

BASE BID: Site work & Site Utilities

ALTERNATE #1: Yurts foundations, piers and site concrete slabs.

ALTERNATE #2: Yurt packages, raised platform structure, interior framing

ALTERNATE #3: Interior finishes, fixtures, millwork and equipment.

Refer to specifications for more information.

DWELLING UNIT (ACCESSIBLE) - BATHROOM REQUIREMENTS

FLOOR CLEARANCES: REFERENCE ICC A117.1-2009 603.2 DOORS MAY SWING INTO THE REQUIRED FLOOR CLEARANCES FOR FIXTURES IF 30" X 48" AREA IS PROVIDED BEYOND THE ARC OF THE DOOR SWING. (EXCEPTION: WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 304 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING.) CLEAR FLOOR SPACES, CLEARANCES, AND WHEEL CHAIR TURNING SPACES ARE PERMITTED TO OVERLAP. (ICC A117.1-2009 603.2)

GRAB BARS: GRAB BAR HEIGHTS SHALL BE BETWEEN 33 INCHES AND 36 INCHES ABOVE FLOOR. BACK WALL OF BATHTUB SHALL BE PROVIDED WITH TWO GRAB BARS: THE SECOND BAR LOCATED 9 INCHES ABOVE THE RIM OF THE BATHTUB. (ICC A117.1-2009 604.5)

LAVATORY: HEIGHT OF SINK SHALL BE 34 INCHES MAX ABOVE FLOOR. BOWL DEPTH SHALL BE 6 1/2" DEEP MAXIMUM. (ICC A117.1-2009 606.3) ALL EXPOSED PIPES UNDER LAVATORY SHALL BE INSULATED. (ICC A117.1-2009 606.6) THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

MIRRORS: MIRRORS ABOVE LAVATORIES SHALL HAVE THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FLOOR. (ICC A117.1-2009 603.3)

WATER CLOSET: (PARALLEL APPROACH) CENTERLINE OF TOILET SHALL BE BETWEEN 16 INCHES AND 18 INCHES FROM SIDEWALL. (ANSI A117.1-2003 1003.11.7.1) TOP OF THE TOILET SEAT SHALL BE BETWEEN 15 INCHES AND 19 INCHES ABOVE FLOOR. (ICC A117.1-2009 604.2)

DWELLING UNIT (ACCESSIBLE) - KITCHEN REQUIREMENTS

FLOOR CLEARANCES: FOR GALLEY STYLE KITCHENS, CLEARANCES BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 48 INCHES MINIMUM. CLEAR FLOOR SPACE AT APPLIANCES SHALL BE POSITIONED FOR PARALLEL APPROACH. U-SHAPED KITCHENS REQUIRED 60 INCHES MINIMUM.

KITCHEN STORAGE: CABINETS SHALL HAVE A CLEAR FLOOR SPACE OF 30 INCHES BY 48 INCHES POSITIONED FOR PARALLEL OR FORWARD APPROACH.

APPLIANCES: REFRIGERATOR - COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50% OF THE FREEZER SPACE 54 INCHES MAXIMUM ABOVE THE FLOOR.

SINK: CABINETS SHALL BE PERMITTED TO BE ADDED UNDER THE SINK, PROVIDED SUCH CABINETS CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE SINK, AND PROVIDED THE FINISH FLOOR EXTENDS UNDER SUCH CABINETS. HEIGHT OF SINK SHALL BE 34 INCHES MAX ABOVE FLOOR OR BE ADJUSTABLE AT VARIABLE HEIGHTS BETWEEN 29 INCHES AND 36 INCHES. BOWL DEPTH SHALL BE 6 1/2" DEEP MAXIMUM IN AT THE LEAST ONE COMPARTMENT. ALL EXPOSED PIPES UNDER SINK SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINK.

OPERATIONAL PARTS: SINK FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUND MAXIMUM.

NOTE: ALL REQUIRED VERTICAL HEIGHTS CAN BE OBTAINED BY SETTING THE COUNTER TOP HEIGHTS AT 34 INCHES ABOVE FLOOR AND THE BOTTOM EDGE OF UPPER CABINETS AT 48 INCHES ABOVE THE FLOOR IN ACCESSIBLE UNITS.

DWELLING UNIT (ACCESSIBLE) - MISC. REQUIREMENTS

ACCESSIBLE ROUTE: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES AND ELEMENTS WHICH ARE PART OF THE DWELLING UNIT AND SHALL NOT PASS THROUGH RESTROOMS, CLOSETS, OR SIMILAR SPACES.

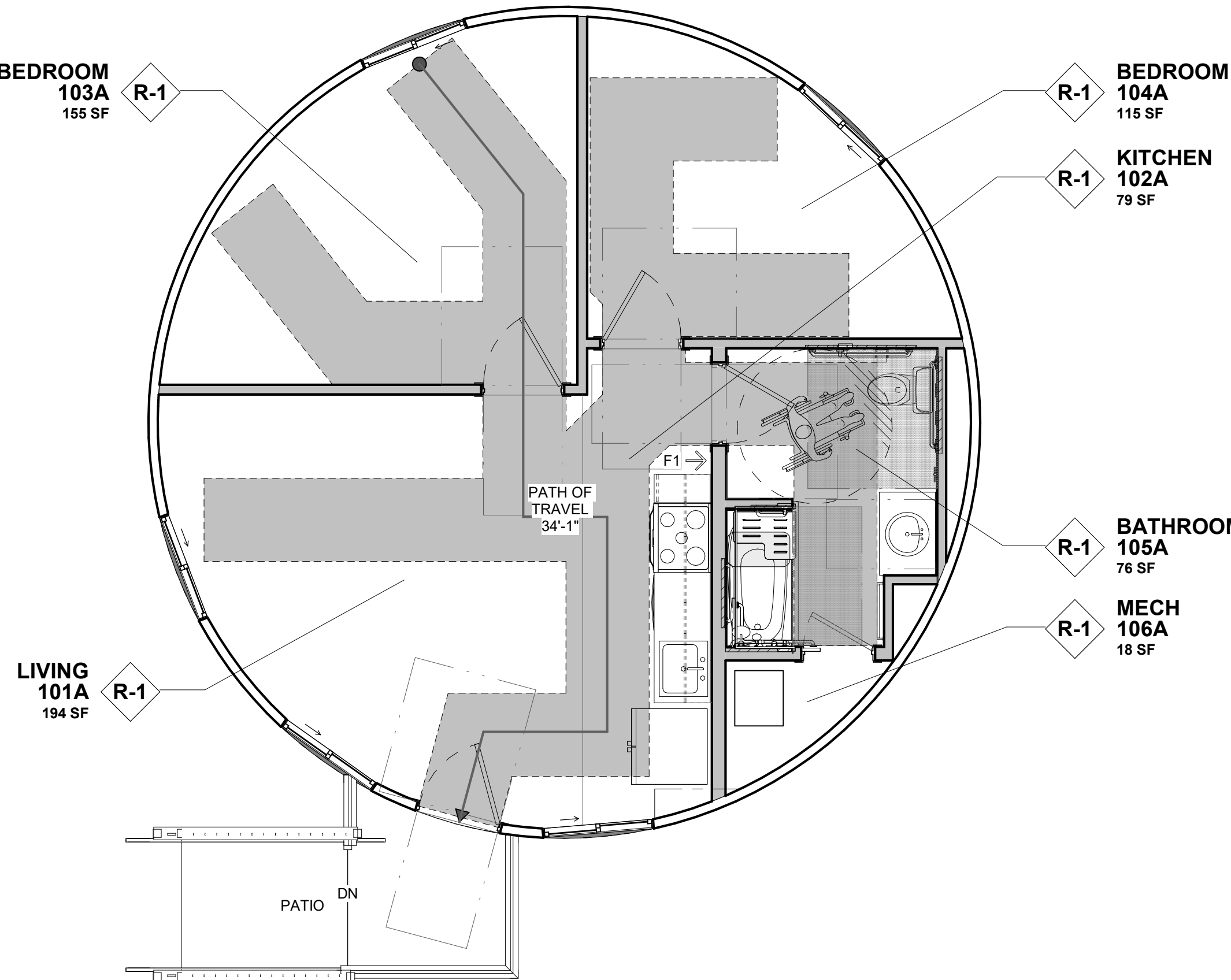
WALKING SURFACE: OF ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:20 WITH A CROSS SLOPE NOT STEEPER THAN 1:48. CLEAR WIDTH SHALL BE 36" MINIMUM AND 32" MINIMUM FOR A DISTANCE NOT GREATER THAN 24" MAX.

DOORS & DOORWAYS: THE PRIMARY ENTRANCE DOOR TO THE DWELLING UNIT, AND ALL OTHER DOORS INTENDED FOR USER PASSAGE, SHALL COMPLY WITH SECTION 404. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING THE WRIST TO OPERATE. SUCH HARDWARE SHALL BE 34 INCHES MIN AND 48 INCHES MAX ABOVE THE FLOOR OR GROUND.

OPERABLE PARTS: LIGHTING CONTROLS, ELECTRICAL SWITCHES AND RECEPTACLES, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE PROVIDED WITH A CLEAR FLOOR SPACE OF 30" X 48" PARALLEL APPROACH. REACH RANGES FOR UNOBSTRUCTED REACH SHALL BE BETWEEN 15" TO 48" ABOVE FLOOR. OBSTRUCTED REACH RANGE IS 44" MAX.

REACH RANGES DO NOT APPLY TO THE FOLLOWING:

1. ELECTRICAL RECEPTACLES SERVING A DEDICATED USE.
2. FLOOR ELECTRICAL RECEPTACLES.
3. HVAC DIFFUSERS.
4. CONTROLS MOUNTED ON CEILING FANS.
5. CONTROLS MOUNTED ON RANGE HOODS IF ACCESSIBLE REDUNDANT CONTROLS ARE PROVIDED.



1 ADA UNIT FLOOR PLAN
G-102 scale: 1/4" = 1'-0"

BUILDING CODES

BUILDING CODE	2021 IBC
MECHANICAL CODE	2021 IMC
PLUMBING CODE	2021 IPC
ELECTRICAL CODE	2020 NEC
FIRE CODE	2021 IFC
FUEL GAS CODE	2021 IFGC
ACCESSIBILITY CODE	2017 ICC/ANSI A117.1

CODE DATA

PRIMARY USE GROUPS (CHAP. #3)	R-1
ACCESSORY USE GROUPS	N/A
CONSTRUCTION TYPE	5B
TOTAL AREA (FOOTPRINT)	3,535 S.F. (6 BUILDINGS, EACH 707 S.F.)
SPRINKLED BUILDING	YES (STATE EXEMPTION)
FIRE ALARMS	YES, SEE MEP SHEETS
EMERGENCY LIGHTING	YES, SEE MEP SHEETS

ALLOWABLE BUILDING HEIGHT + AREA

ALLOWABLE AREA OF NONSEPARATED OCCUPANCY IS CALCULATED FROM THE MOST RESTRICTIVE OF PROVIDED USES:

ALLOWABLE AREA BY TABLE 503 (A-3)	7,000 S.F. PER STORY (SEE BELOW)
PROVIDED AREAS	(R-1) 707 S.F. (EACH BUILDING)
ALLOWABLE HEIGHT/AREA (TABLE 503)	2 STORIES + 40 FEET
PROVIDED HEIGHT	1 STORY + 11'-3" S.O.G. ~14'-3" FOR RAISED PLATFORM ALTERNATE (ABOVE GRADE)

FLOOR AREA PER OCCUPANT (1004)

R-1, RESIDENTIAL: 1 OCCUPANT PER 200 GROSS S.F.

PLUMBING FIXTURES (2902.1)

REQUIRED:

R-1, HOTELS, MOTELS, BOARDING HOUSES (TRANSIENT) SPACE REQUIRES THE FOLLOWING:

- TOTAL WATER CLOSETS 1 PER SLEEPING UNIT
- 1 TOTAL LAVATORY PER SLEEPING UNIT
- 1 TOTAL BATHTUB/SHOWER PER SLEEPING UNIT
- 0 DRINKING FOUNTAINS
- 1 SERVICE SINK

PROVIDED:

R-1 SPACES HAVE BEEN PROVIDED WITH:

- TOTAL WATER CLOSETS 1 PER SLEEPING UNIT
- 1 TOTAL LAVATORY PER SLEEPING UNIT
- 1 TOTAL BATHTUB/SHOWER PER SLEEPING UNIT
- 0 DRINKING FOUNTAINS
- 0 SERVICE SINK (PROVIDED ON SITE)

MEANS OF EGRESS

EGRESS WIDTH (1005)

R-1 - EGRESS: 0.2 PER OCCUPANT	
DOOR OPERATIONS (1008)	YES
STAIRWAYS (1009)	N/A
EXIT SIGNS (1006 & 1011)	YES

TRAVEL DISTANCE (1017)

OCCUPANCY R-1 =	MAX. 200'-0" WITHOUT SPRINKLER SYSTEM. MAX. AS DESIGNED 34'-1" (SEE PLANS).
-----------------	---

EXIT QUANTITY (1006)

ONE EXIT REQUIRED.

TABLE 1006.3.4(2) STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR OTHER OCCUPANCIES

R-1 MAXIMUM OCCUPANT LOAD PER STORY 10.

FIRE RESISTANCE RATED CONSTRUCTION (TABLES 601,602 &602.4)

BUILDING ELEMENTS:

STRUCTURAL FRAME	0 HOUR
EXT. BEARING WALL	0 HOUR
EXT. NON-BEARING WALL	0 HOUR
INT. BEARING WALL	0 HOUR
INT. NON-BEARING WALL	0 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR

FIRE EXTINGUISHER LEGEND

(ARROW INDICATES PLACEMENT ON WALL; BOX INDICATES CABINET)

TYPICAL DESIGNATIONS:

- MP = MULTI-PURPOSE DRY CHEMICAL
- DC = DRY CHEMICAL
- WC = WET CHEMICAL
- WC-K = WET CHEMICAL CLASS K (TYPICALLY USED IN KITCHENS)
- HT = HALON TYPE

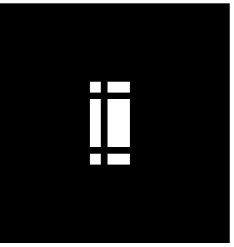


DESCRIPTION: LARSEN'S EXTINGUISHER AND BRACKET
FIRE EXTINGUISHER: MP5
MOUNTING HEIGHT: T.O. EXTINGUISHER @ 60" A.F.F.



Digitally signed
by Brent
Stevens
Date:
2023.01.17
13:36:31-06'00'

hdesigngroup
architecture + design



5039 S National Avenue | Springfield, MO 65810 | 417.887.0595

**OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION**

**DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS**

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: JANUARY 17, 2023

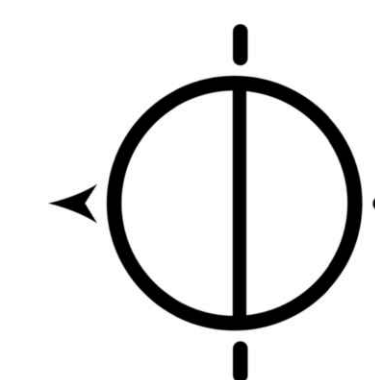
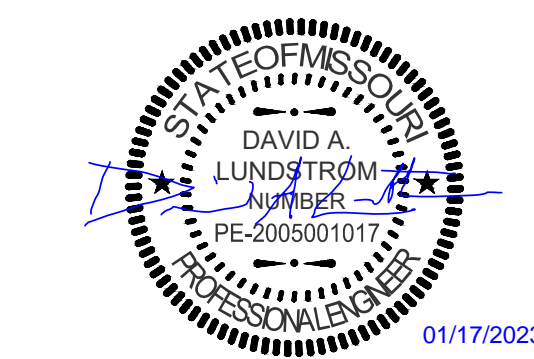
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DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

SHEET TITLE:
CODE INFO

SHEET NUMBER:

G-102

SHEET 3 OF 32
1/17/2023 1:35:49 PM



Missouri State Certificate of Authority Numbers:
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Landscape Architecture: 2007013673

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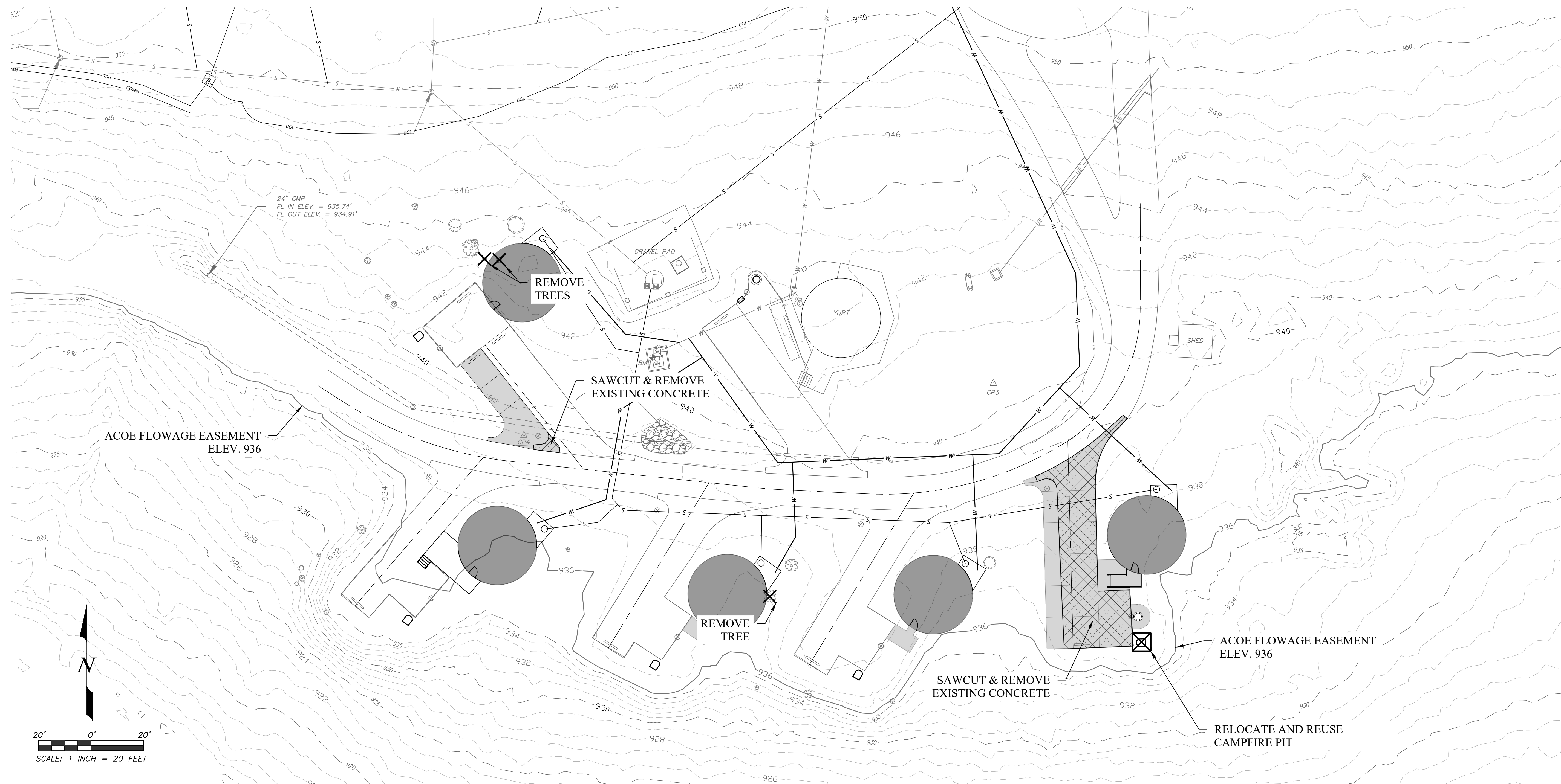
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DRAWN BY: ALW
CHECKED BY: DAL
DESIGNED BY: ALW

SHEET TITLE:
**DEMOLITION PLAN
AND EXISTING
CONDITIONS**

SHEET NUMBER:

C-101

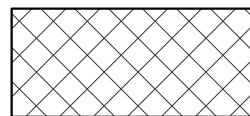





5 OF 32 SHEETS
01/17/2023



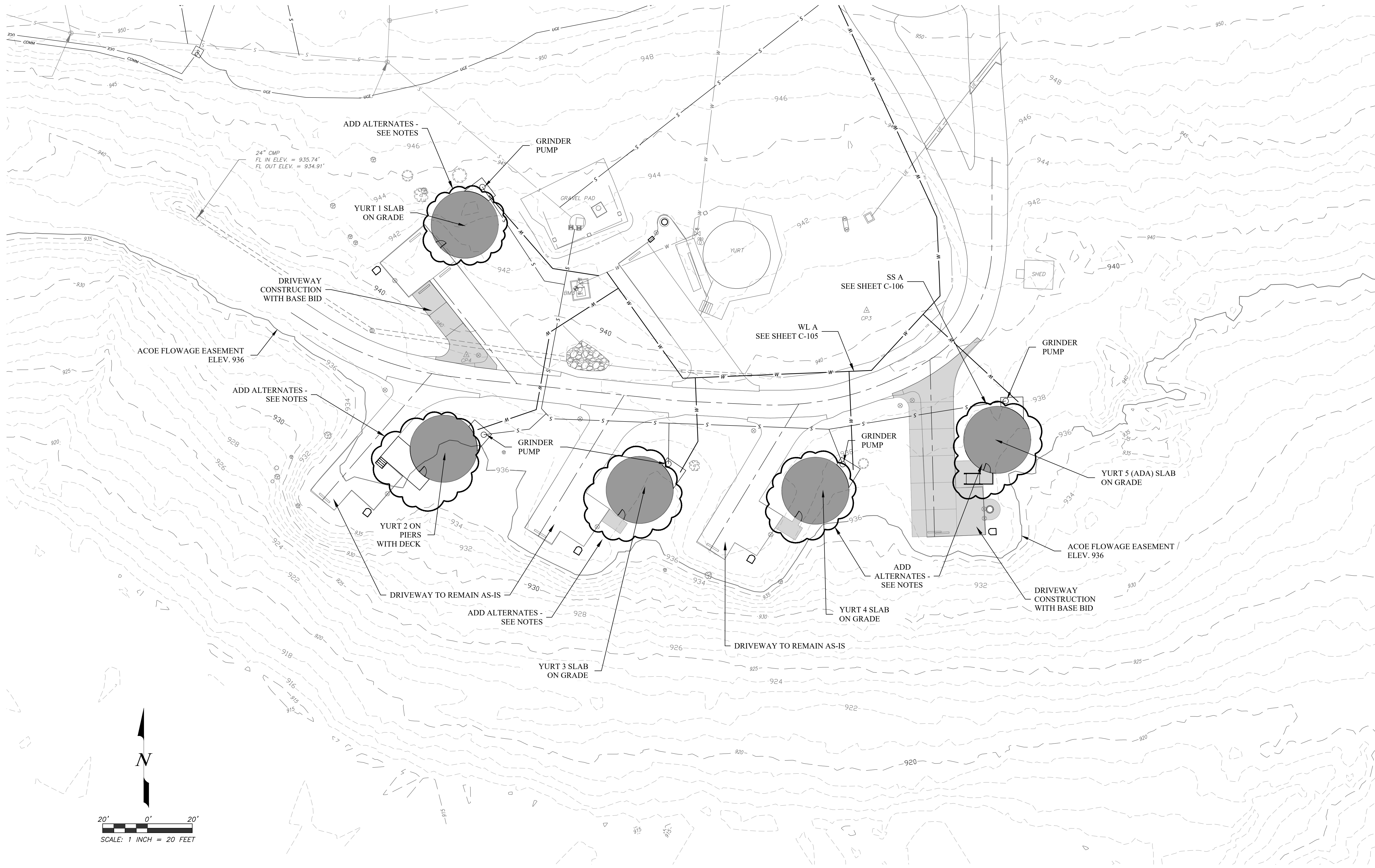
NOTE

1. CONTRACTOR SHALL REMOVE ALL DEMOLITION MATERIAL FROM THE SITE AND DISPOSE OF IT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR DISPOSAL.
2. LIGHT POLE, PULL BOXES AND BASES WITHIN THE LIMITS OF THE NEW WORK SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE ABOVE UNLESS OTHERWISE NOTED. REMOVE WIRE TO A MINIMUM OF 12" BELOW GRADE AND ABANDON UNDERGROUND WIRE IN PLACE. BACKFILL AND COMPACT ALL VOIDS.
3. RELOCATE HYDRANTS, METERS AND OTHER UTILITY STRUCTURES AND ELEMENTS OUT OF THE NEW PAVEMENT AS INDICATED. ADJUST UTILITY ELEMENTS TO REMAIN TO FINISH GRADE.
4. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION, DISPOSAL, DNR AND ALL OTHER PERMITS NECESSARY TO COMPLETE THE WORK.
5. BLASTING AND BURNING ARE PROHIBITED.
6. CONTRACTOR SHALL REMOVE OTHER SITE ELEMENTS WHICH ARE NOT INTENDED FOR DEMOLITION, BUT ARE OBSTACLES TO CONSTRUCTION AND STORE THEM SAFELY DURING THE PROGRESS OF THE WORK. REINSTALL THE TEMPORARILY REMOVED ITEMS TO ORIGINAL LOCATION AND CONDITION. REPLACE ANY DAMAGED ELEMENTS. THERE WILL BE NO ADDITIONAL PAYMENT FOR REPLACEMENT.
7. ALL PAVEMENT AND SIDEWALK REMOVALS SHALL BE MADE TO A CLEAN AND UNIFORM SAWCUT FACE. REMOVE TO AN EXISTING CONSTRUCTION OR EXPANSION JOINT IF WITHIN 3' OF THE PROPOSED SAWCUT.
8. ABANDON EXISTING PIPES, VAULTS AND OTHER UNDERGROUND STRUCTURES BY COMPLETELY REMOVING THEM OR BY COMPLETELY FILLING THE BURIED STRUCTURE WITH SAND AND OR LOW STRENGTH CONCRETE SLURRY.
9. ALL DEMOLITION IS PART OF THE BASE BID.
10. NO OPEN CUTTING OF ASPHALT ROADWAY IS ALLOWED. ALL UTILITIES BENEATH PRIMARY ASPHALT ROADWAY SHALL BE BORED.

LEGEND:

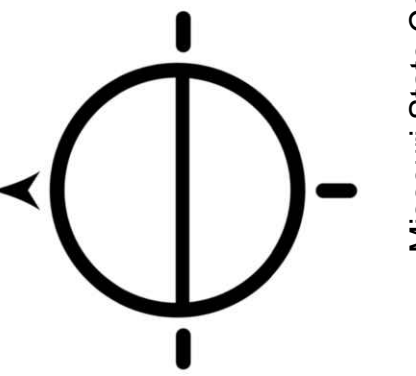
-  SAWCUT AND REMOVE PAVEMENT
-  LINEAR ITEMS TO BE REMOVED (FENCES, CURBING, ETC.)
-  TREE TO BE REMOVED
-  UTILITIES TO BE RELOCATED OR ADJUSTED
-  STRUCTURE TO BE RELOCATED OR ADJUSTED
-  GROUP OF TREES TO BE REMOVED





NOTE

1. BASE BID INCLUDES ALL SITE WORK, DRIVEWAY REPLACEMENT/EXPANSION, AND UTILITIES.
2. ADD ALTERNATE #1 INCLUDES DECK MATERIAL AND CONCRETE SLABS FOR YURT FOUNDATIONS AS WELL AS YURT UTILITY SERVICE ROUGH-INS. SEE MEP PLANS FOR DETAILS.
3. ADD ALTERNATE #2 INCLUDES THE BASE YURT STRUCTURE AND MATERIAL. SEE ARCHITECTURAL PLANS FOR DETAILS.
4. ADD ALTERNATE #3 INCLUDES THE INTERIOR FIXTURES AND FINISHES FOR THE YURTS. SEE ARCHITECTURAL PLANS FOR DETAILS.



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DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
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ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X2215-01_C-102
DRAWN BY: ALW
CHECKED BY: DAL
DESIGNED BY: ALW

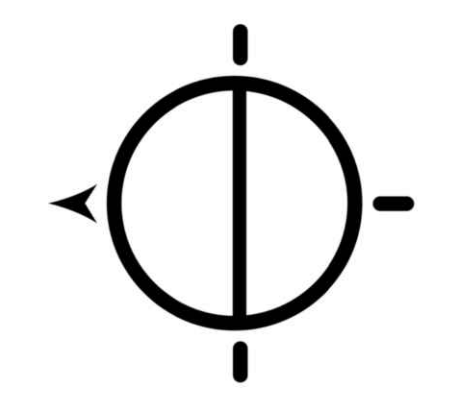
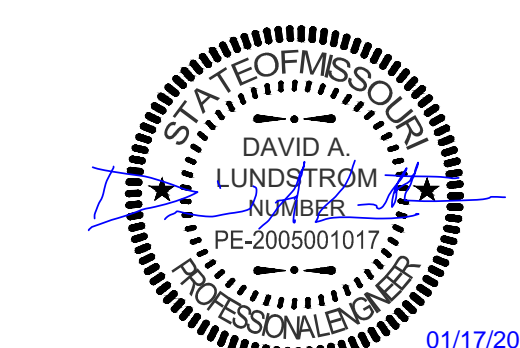
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SITE PLAN

SHEET NUMBER:

C-102

6 OF 32 SHEETS
01/17/2023





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Engineering: 2000156865; Land Surveying: 2001011476;
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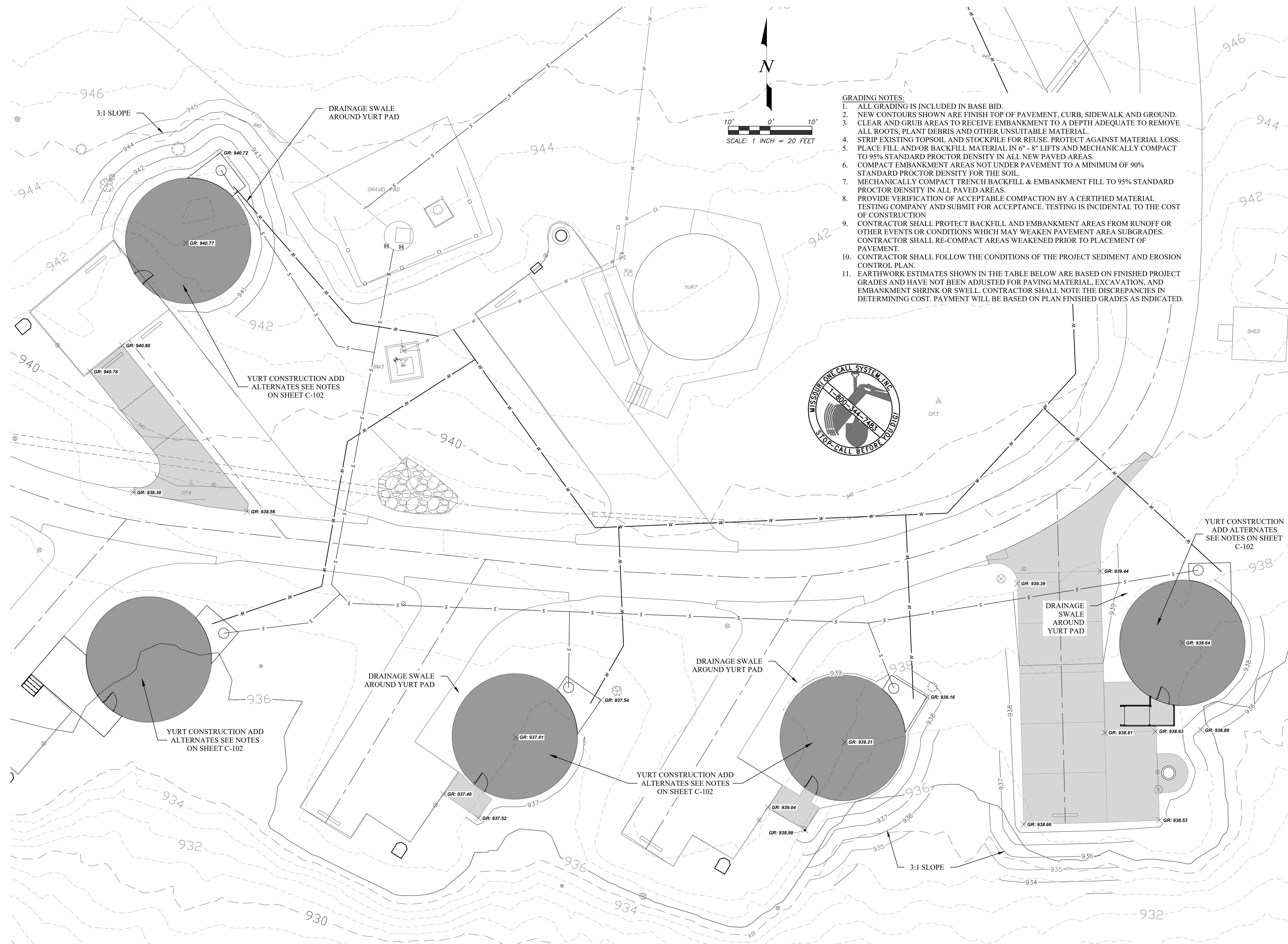
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SITE GRADING PLAN

SHEET NUMBER:

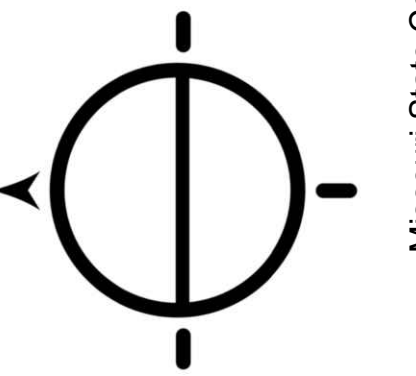
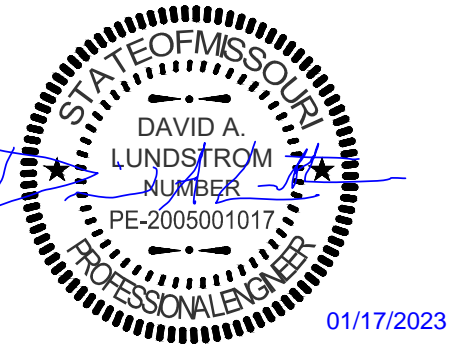
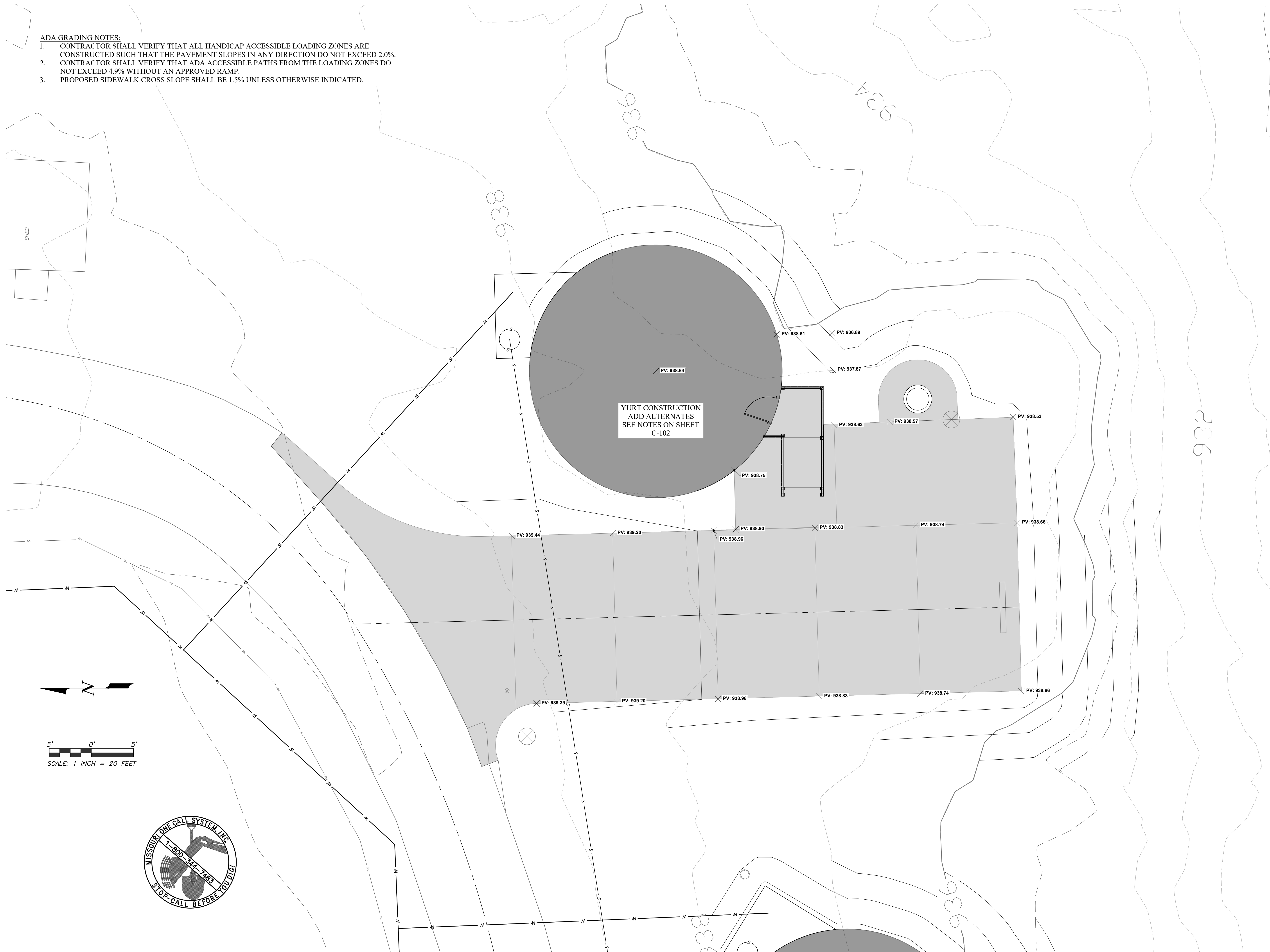
C-103

7 OF 32 SHEETS
01/17/2023



ADA GRADING NOTES:

1. CONTRACTOR SHALL VERIFY THAT ALL HANDICAP ACCESSIBLE LOADING ZONES ARE CONSTRUCTED SUCH THAT THE PAVEMENT SLOPES IN ANY DIRECTION DO NOT EXCEED 2.0%.
2. CONTRACTOR SHALL VERIFY THAT ADA ACCESSIBLE PATHS FROM THE LOADING ZONES DO NOT EXCEED 4.9% WITHOUT AN APPROVED RAMP.
3. PROPOSED SIDEWALK CROSS SLOPE SHALL BE 1.5% UNLESS OTHERWISE INDICATED.



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CAD DWG FILE: X2215-01_C-102
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CHECKED BY: DAL
DESIGNED BY: ALW

SHEET TITLE:
ADA GRADING PLAN

SHEET NUMBER:

C-104

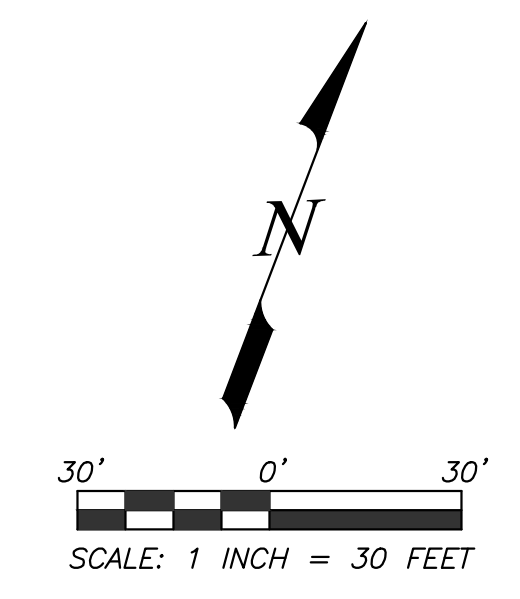
8 OF 32 SHEETS
01/17/2023



1. STA 0+00.00
CONNECT TO EXISTING WATERMAIN. INSTALL MJ 2" X 2" X 2" TEE WITH THRUST BLOCK
2. STA 0+05.00
INSTALL 2" VALVE
3. STA 0+75.19
EXISTING FORCEMAIN CROSSING
4. STA 1+79.25
INSTALL 2" X 22.5° MJ BEND WITH THRUST BLOCK
5. STA 2+14.50
INSTALL 2" X 45° MJ BEND WITH THRUST BLOCK
6. STA 2+25.59
58 LF 1" PVC SERVICE LINE
7. STA 2+59.74
INSTALL 2" X 45° MJ BEND WITH THRUST BLOCK
8. STA 2+69.74
44 LF 1" PVC SERVICE LINE
9. STA 3+38.42
44 LF 1" PVC SERVICE LINE
10. STA 3+44.02
INSTALL 2" X 45° MJ BEND WITH THRUST BLOCK
11. STA 3+95.85
90 LF 1" PVC SERVICE LINE ADD ALTERNATE #1
12. STA 4+02.24
CONNECT TO EXISTING WATERMAIN INSTALL MJ 2" X 2" X 1" TEE WITH THRUST BLOCK
13. STA 4+02.24
65 LF 1" PVC SERVICE LINE
14. STA 4+15.58
INSTALL 1" X 45° BEND ON SERVICE CONNECTIONS; MAINTAIN 5' DISTANCE FROM GRAVEL PAD

LEGEND:

- W — EXISTING WATERMAIN
- W — PROPOSED WATERMAIN
- WV WATER VALVE
- YH YARD SPIGOT



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



GRE GREAT RIVER ENGINEERING

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ISSUE DATE: 01/17/2023

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DESIGNED BY: WSH

SHEET TITLE:
WATERLINE A

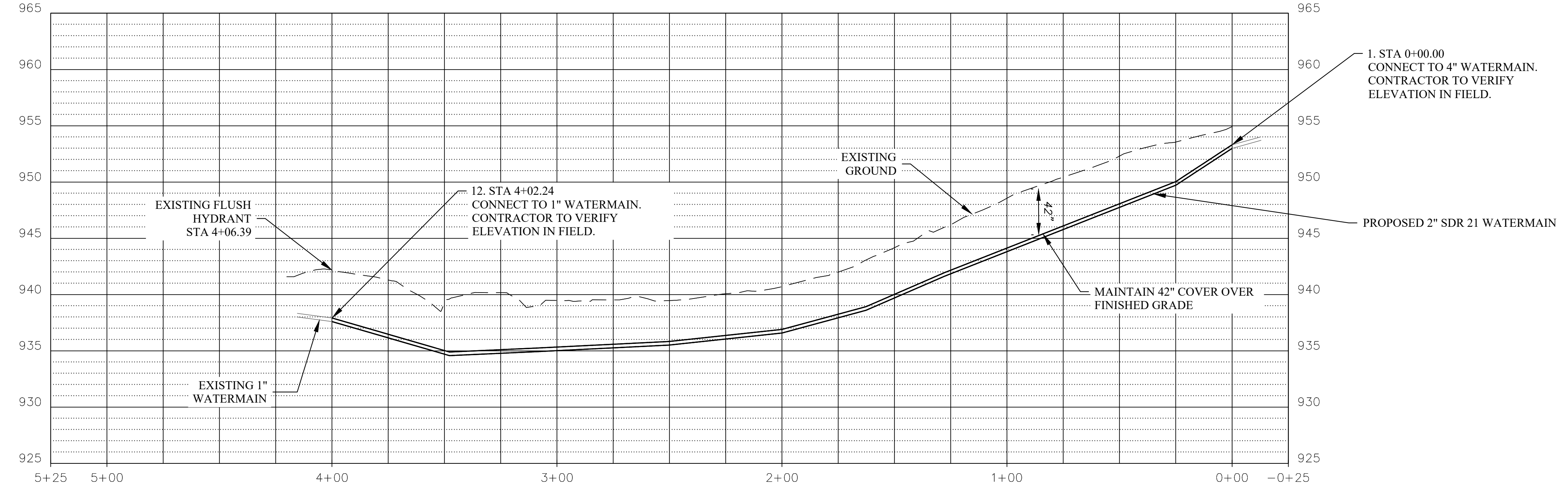
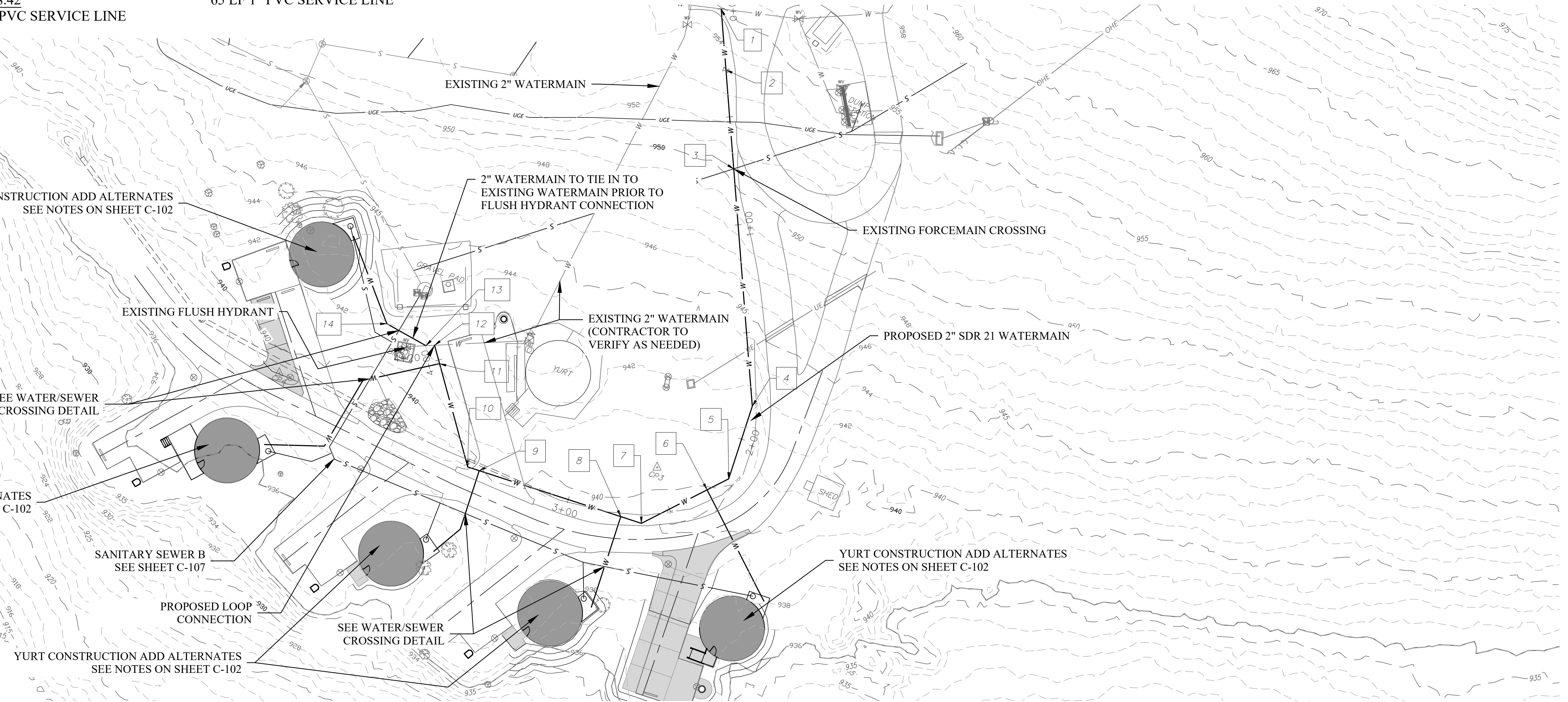
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C-105
9 OF 32 SHEETS
JANUARY 17, 2023

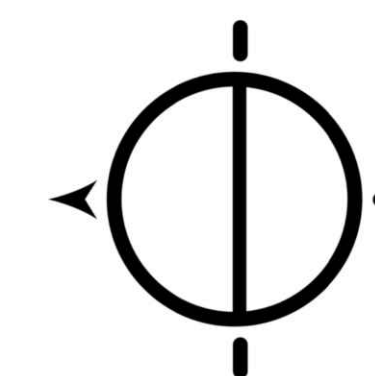
NOTE:
LOCATION AND DEPTH OF EXISTING WATERMAIN ARE UNKNOWN. CONTRACTOR TO VERIFY IN-FIELD.

YURT CONSTRUCTION ADD ALTERNATES
SEE NOTES ON SHEET C-102

YURT CONSTRUCTION ADD ALTERNATES
SEE NOTES ON SHEET C-102

NOTE: NO OPEN CUTTING OF ASPHALT ROADWAY IS ALLOWED. ALL UTILITES BENEATH PRIMARY ASPHALT ROADWAY SHALL BE BORED.





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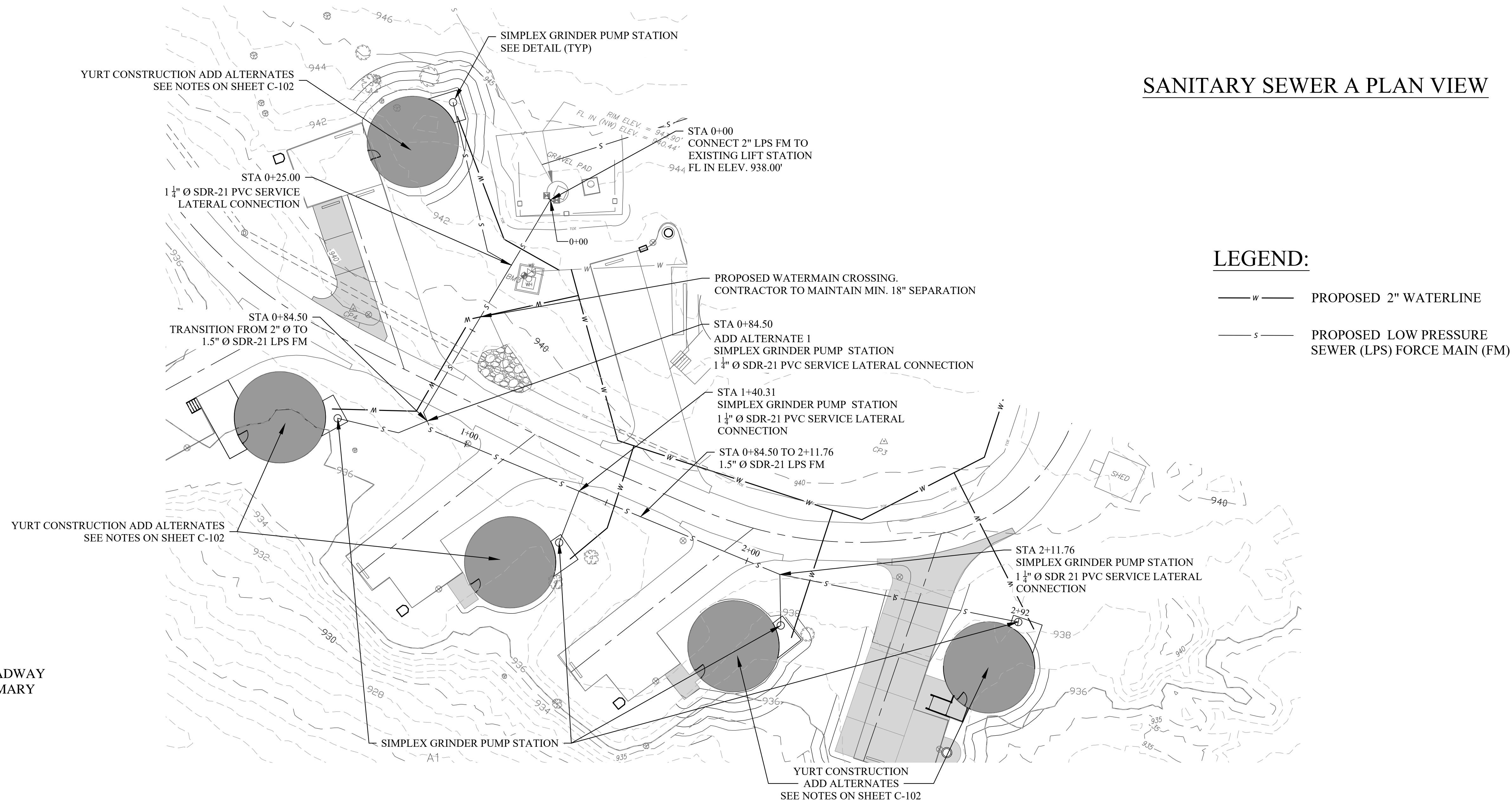
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SANITARY SEWER A

SHEET NUMBER:

C-106

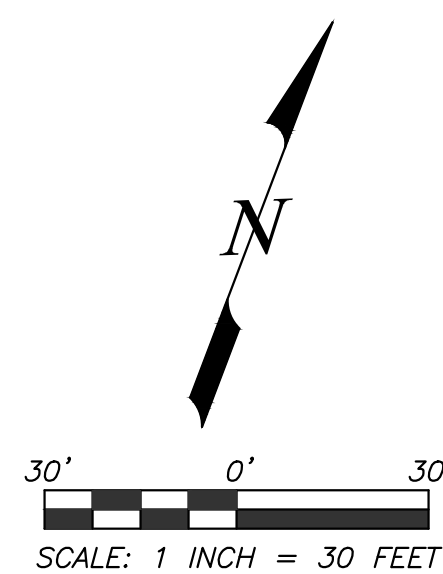
10 OF 32 SHEETS
JANUARY 17, 2023

SANITARY SEWER A PLAN VIEW

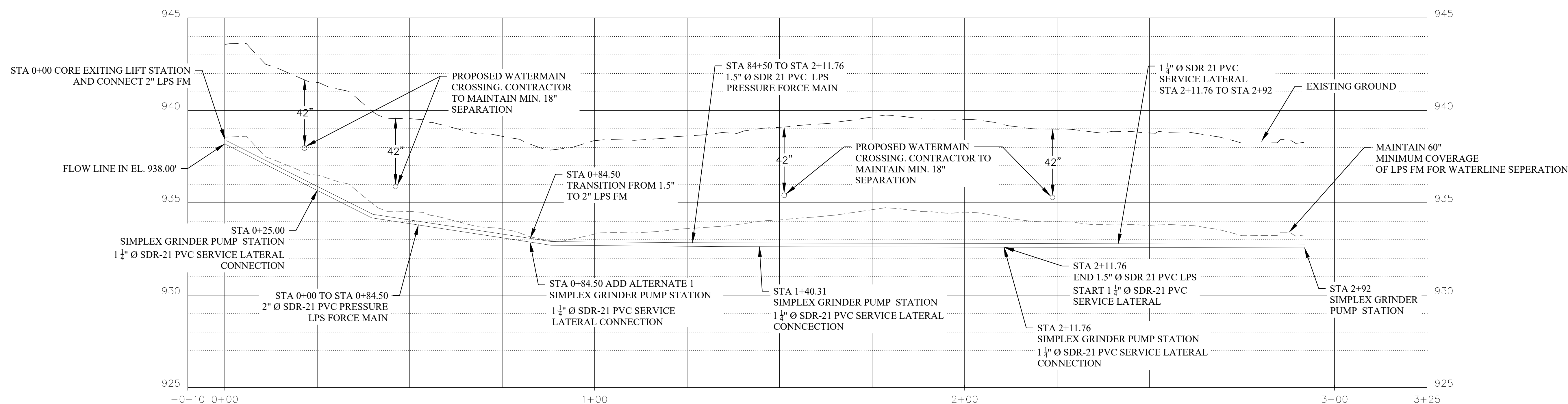


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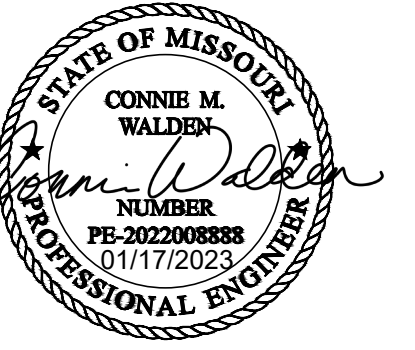
- w— PROPOSED 2" WATERLINE
- s— PROPOSED LOW PRESSURE SEWER (LPS) FORCE MAIN (FM)



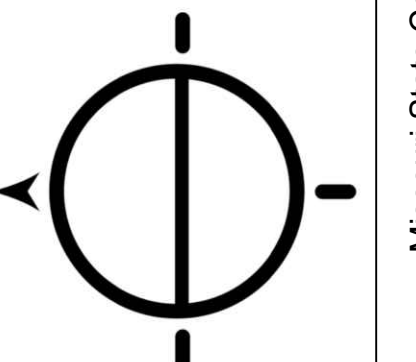
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SANITARY SEWER A PROFILE



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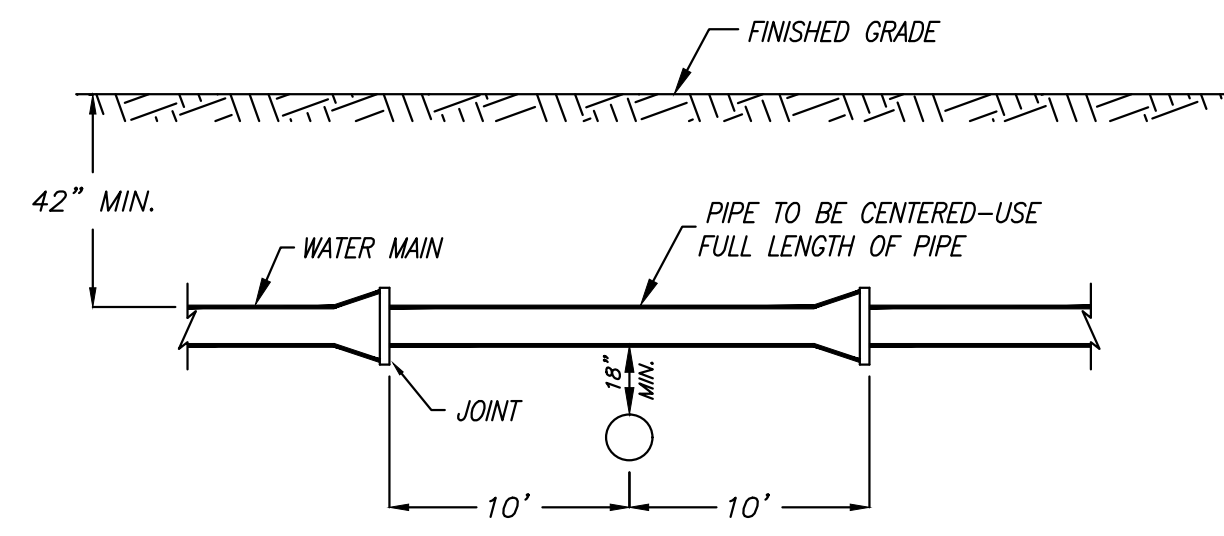
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SHEET TITLE:
WATER DETAILS

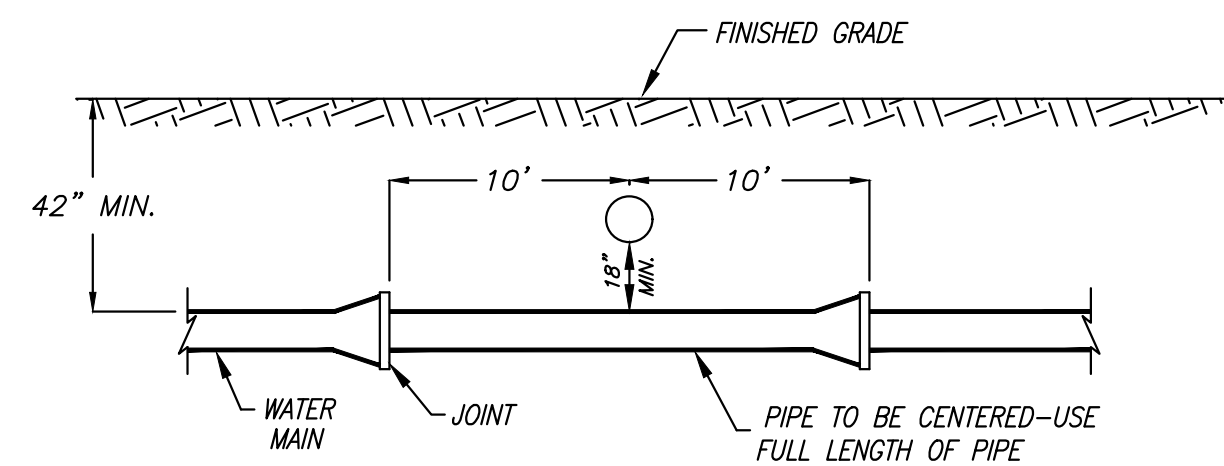
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C-501

11 OF 32 SHEETS
JANUARY 17, 2023

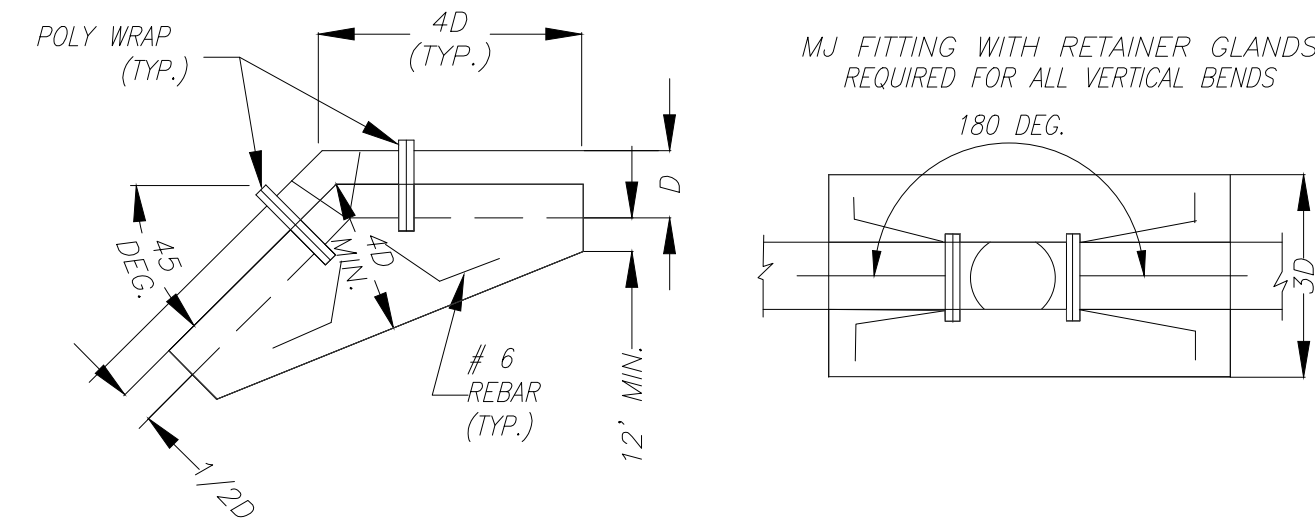


TYPICAL CROSSING
WATER MAIN OVER SEWER



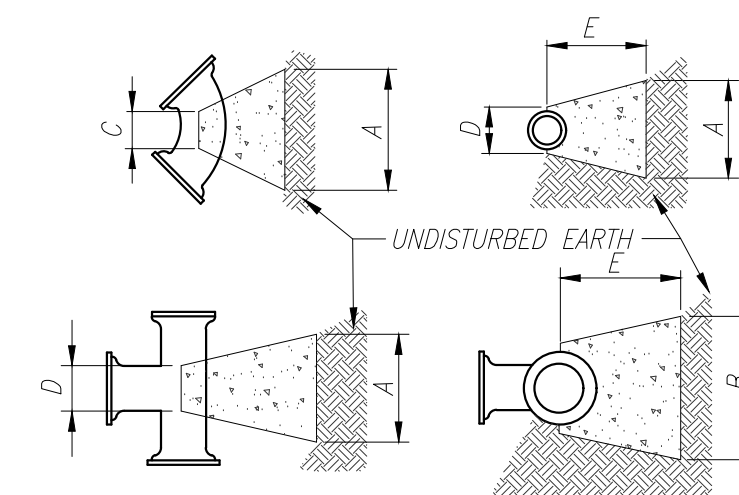
TYPICAL CROSSING
WATER MAIN UNDER SEWER

WATER/SEWER CROSSING
NOT TO SCALE



UNLESS NOTED OTHERWISE, THRUST BLOCKS SHALL BE INSTALLED
AT ALL FITTING LOCATIONS.

VERTICAL BEND CONCRETE THRUST BLOCK DETAIL
NOT TO SCALE



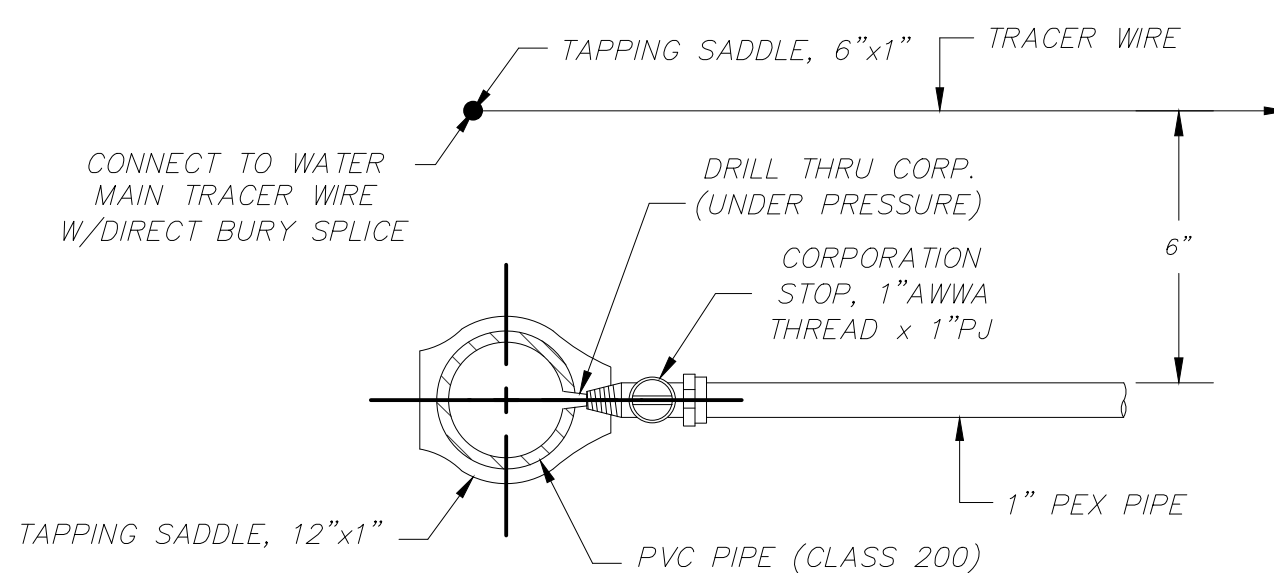
CONCRETE THRUST BLOCK
NOT TO SCALE

PIPE SIZE	FITTING	DISTANCE IN INCHES				
		A	B	C	D	E
4" AND SMALLER	11.25 & 22.5"	9	9	8	8	6
	45°	18	9	8	8	12
	90°	21	12	8	8	12
	TEE/PLUG	15	12	8	8	12
6"	11.25 & 22.5"	12	12	8	10	12
	45°	27	12	8	10	12
	90°	33	18	8	10	12
	TEE/PLUG	24	18	8	10	12
8"	11.25 & 22.5"	18	15	8	10	12
	45°	33	15	8	10	18
	90°	42	24	8	10	18
	TEE/PLUG	30	24	8	10	18

NOTES:

- THRUST BLOCKS ARE BASED ON A WORKING PRESSURE OF 200 P.S.I. PLUS OR SURGE, & 2000 P.S.F. ALLOWABLE SOIL BEARING PRESSURE.
- FOR PIPE SIZES NOT SHOWN USE DIMENSIONS FOR NEXT LARGER SIZE.
- USE 3/8" PLYWOOD SEPARATOR BETWEEN BLOCKS AND PLUGS TO PROVIDE FOR FUTURE REMOVAL.
- WRAP ALL FITTINGS W/6 MIL POLY PRIOR TO PLACEMENT OF CONCRETE THRUST BLOCKING.

THRUST BLOCKING DETAIL
NOT TO SCALE



SADDLE W/CORPORATION STOP
(CLASS 200 PVC MAINS)

TYPICAL 1" PVC WATER SERVICE CONNECTION ON CLASS 200 PVC MAIN
NOT TO SCALE





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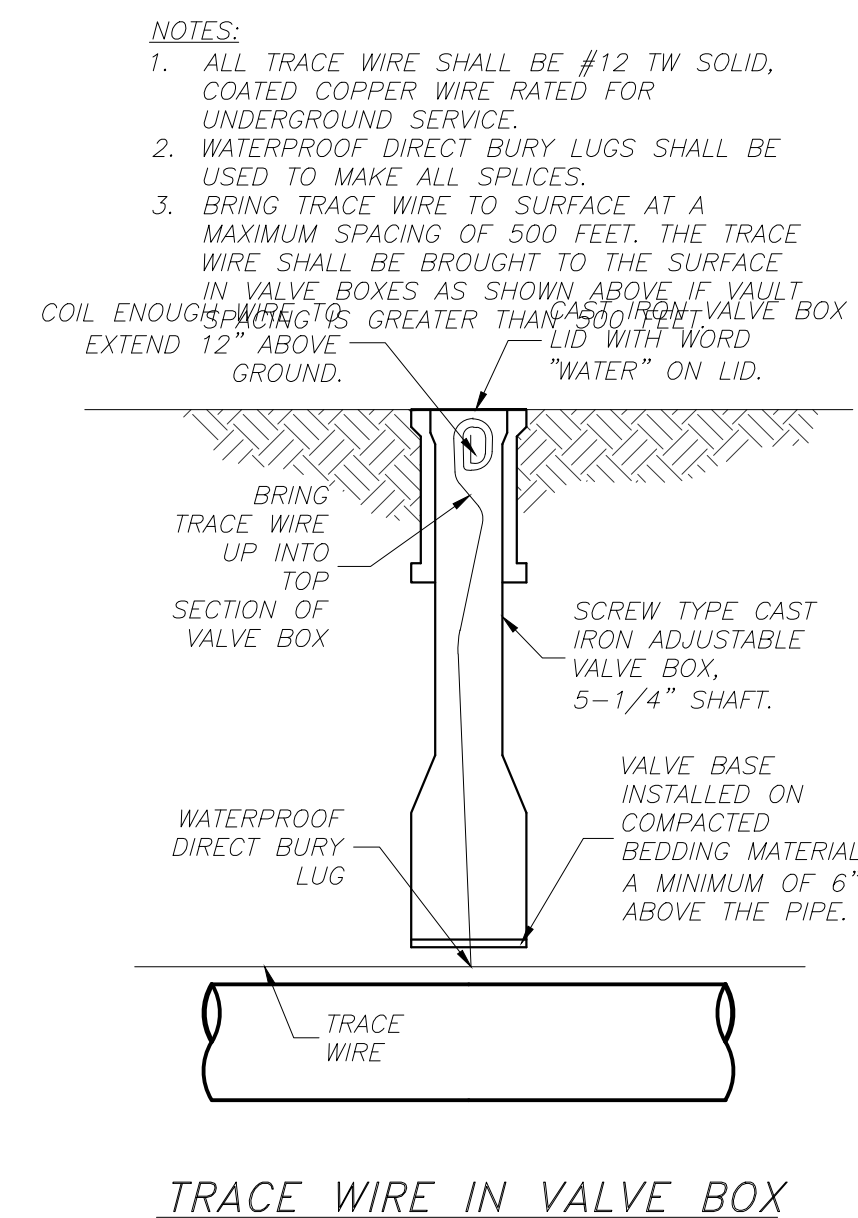
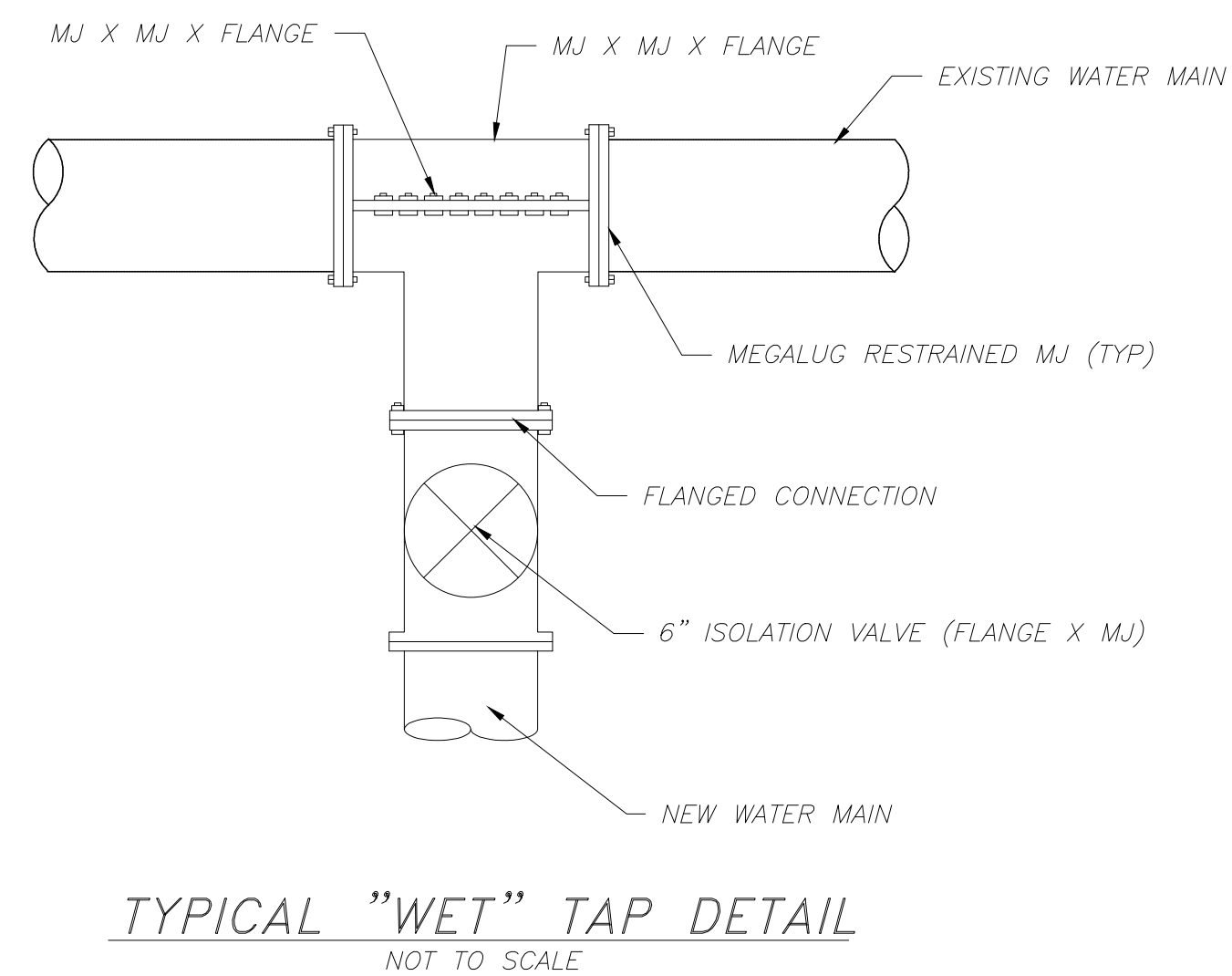
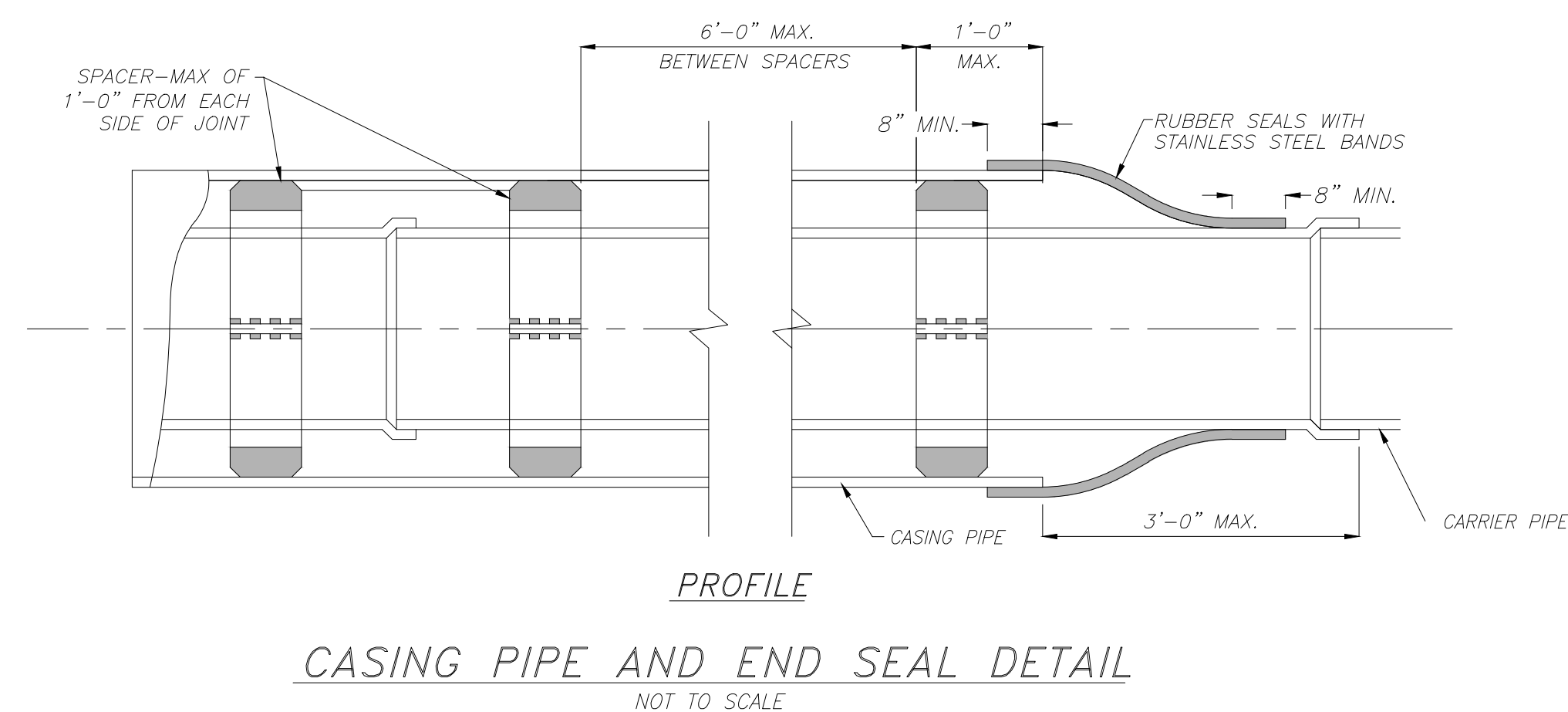
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CHECKED BY: CMW
DESIGNED BY: WSH

SHEET TITLE:
WATER DETAILS

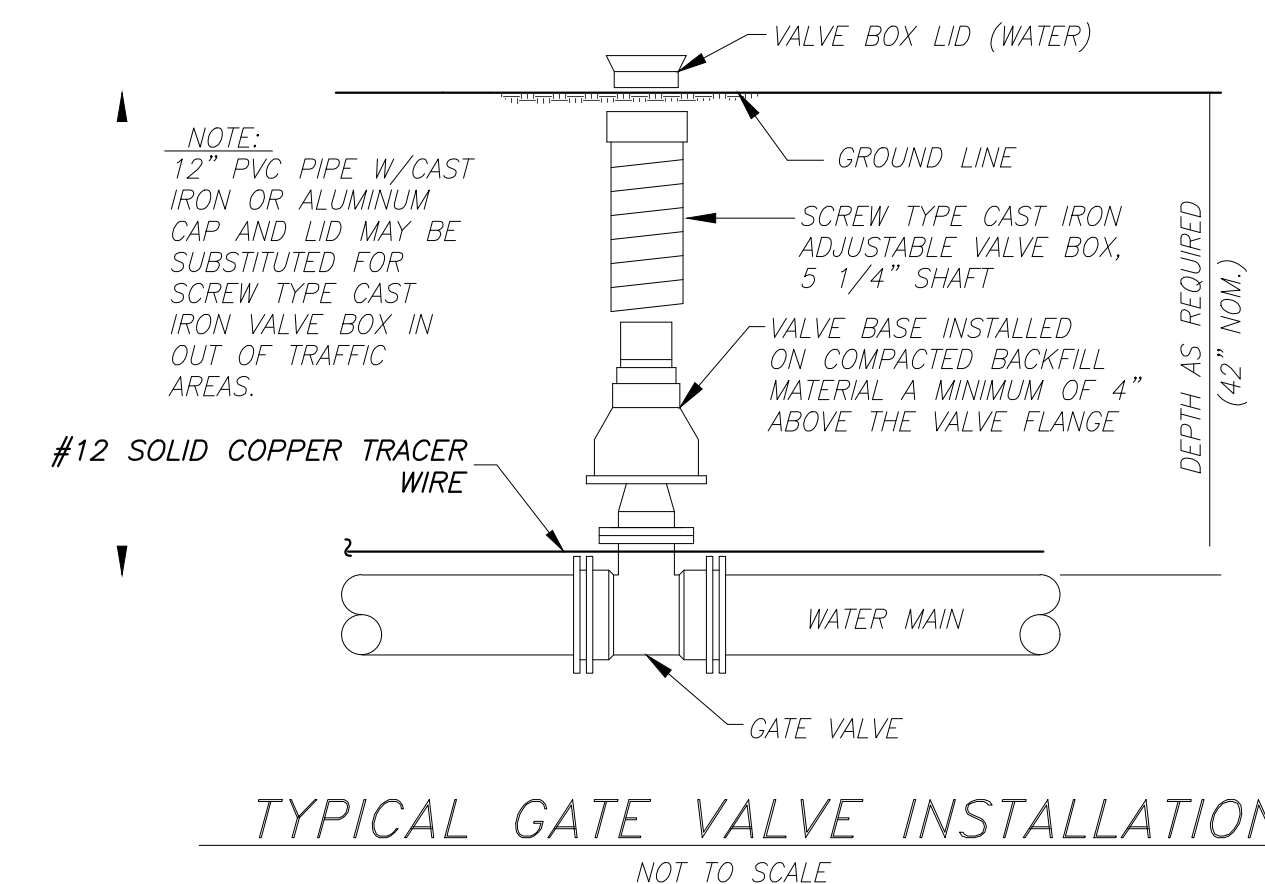
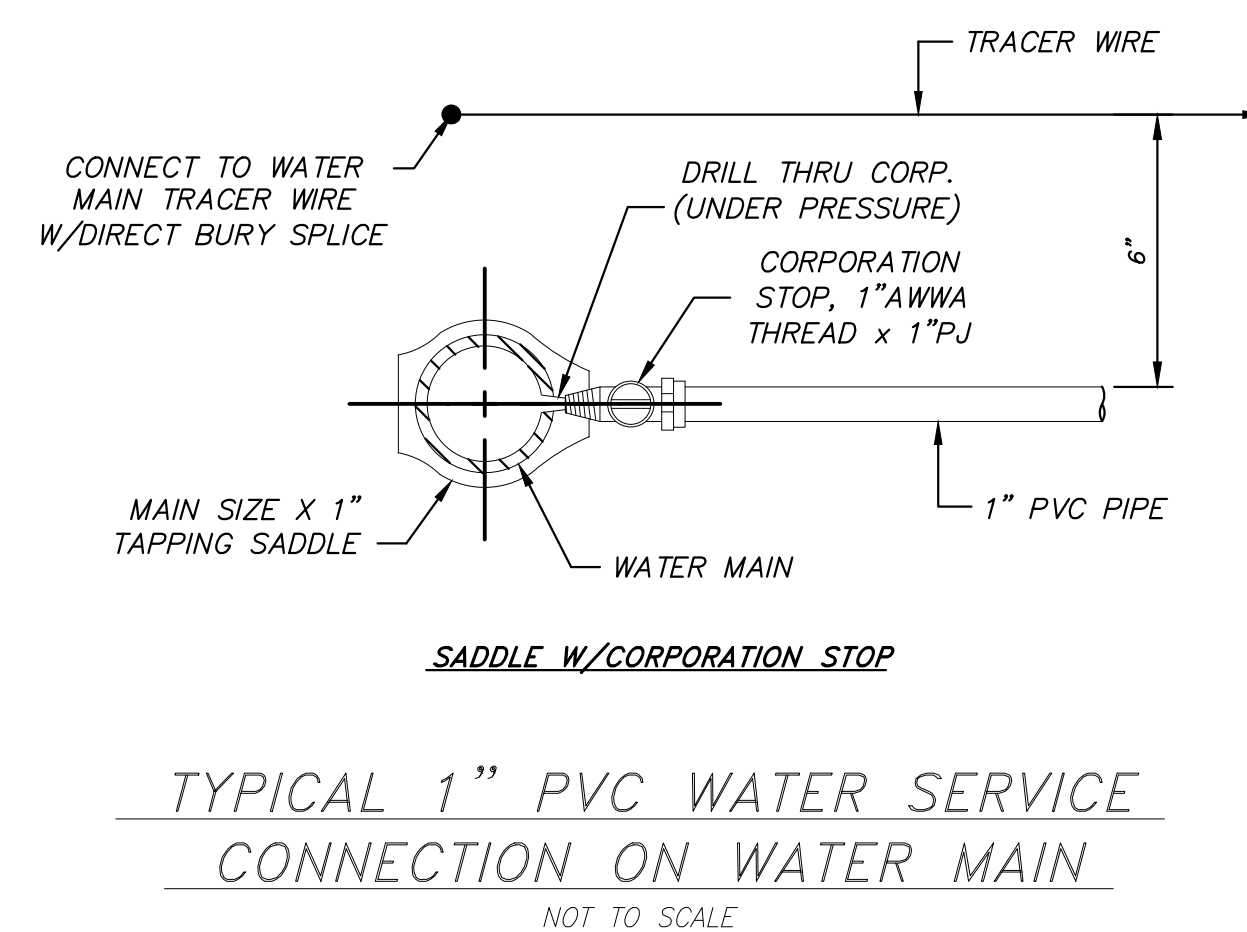
SHEET NUMBER:

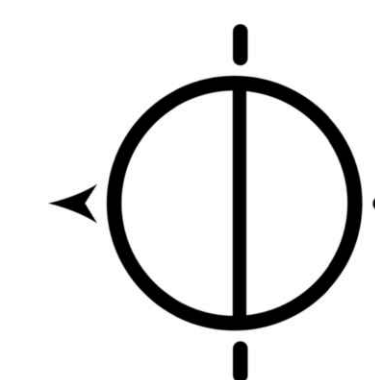
C-502

12 OF 32 SHEETS
JANUARY 17, 2023



TRACE WIRE INSTALLATION
NOT TO SCALE





Missouri State Certificate of Authority Numbers:
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Landscape Architecture: 2007013673

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DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 01/17/2023

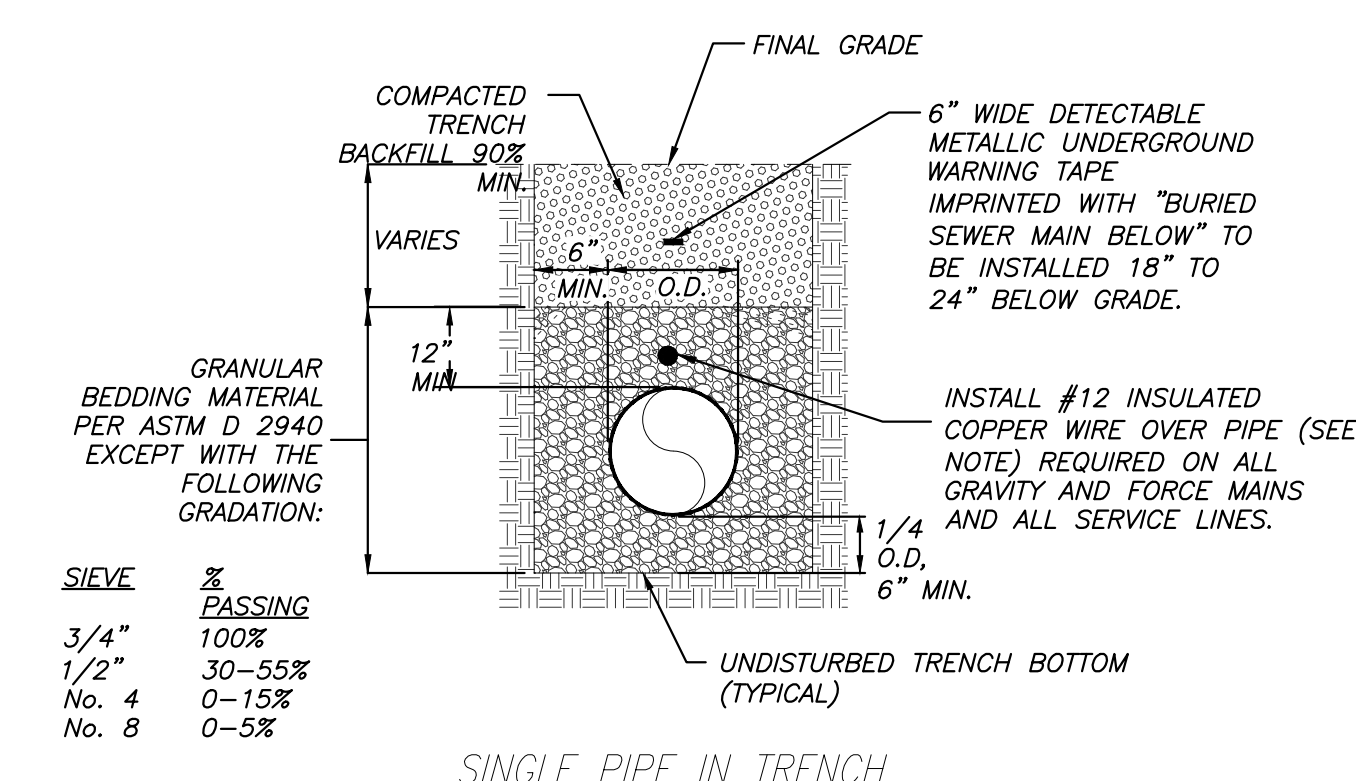
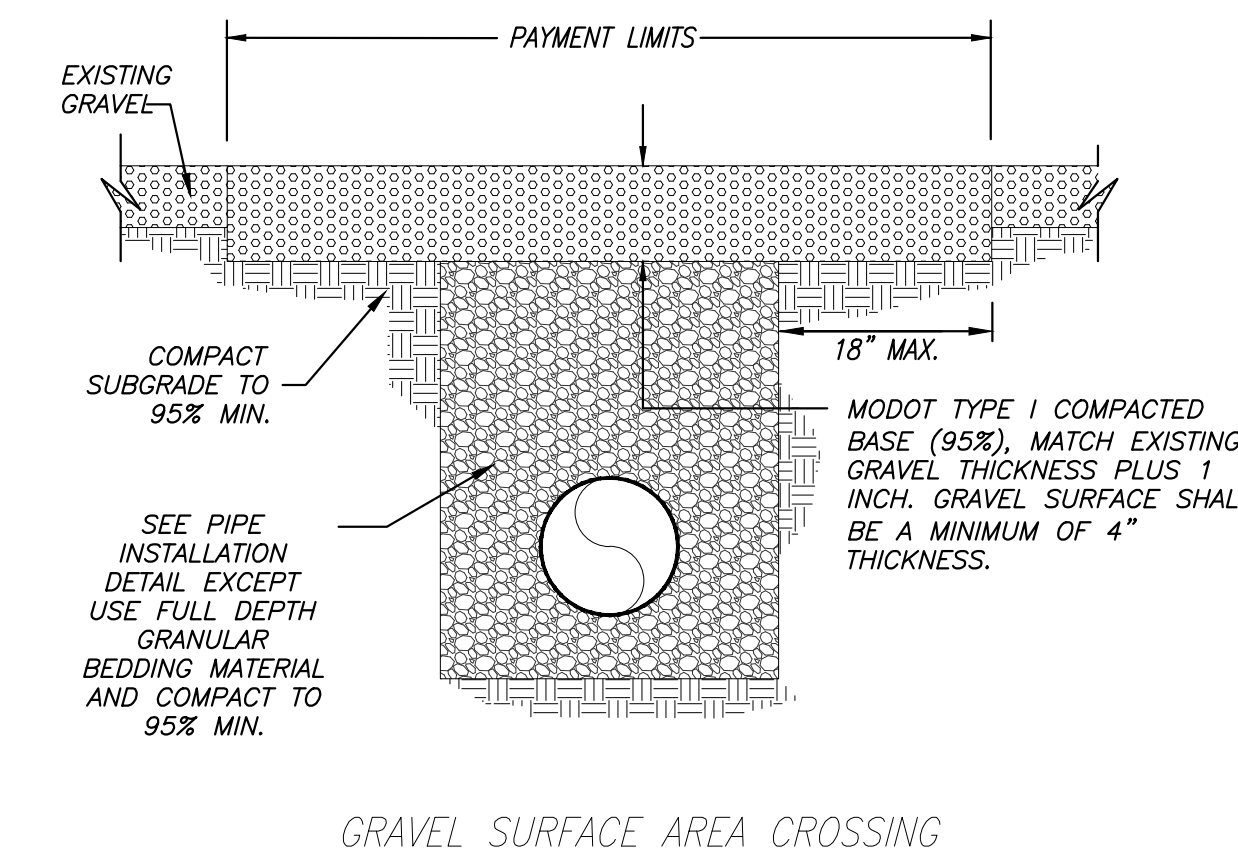
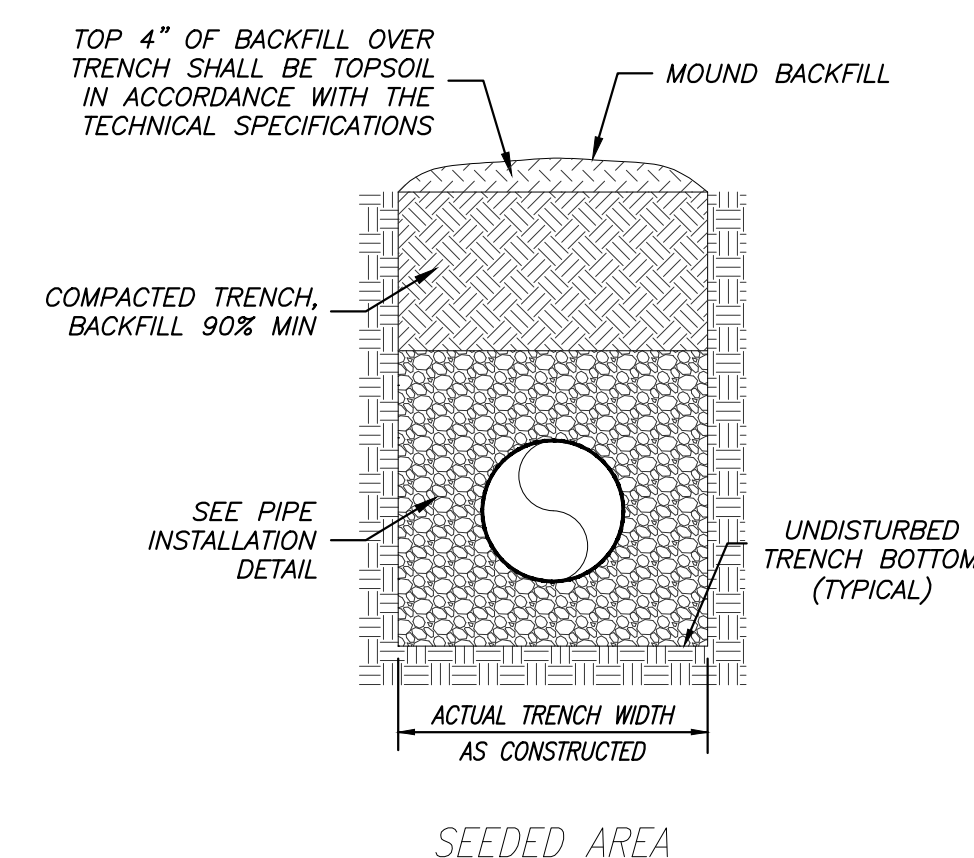
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DRAWN BY: WSH
CHECKED BY: CMW
DESIGNED BY: _____

SHEET TITLE:
SEWER DETAILS

SHEET NUMBER:

C-503

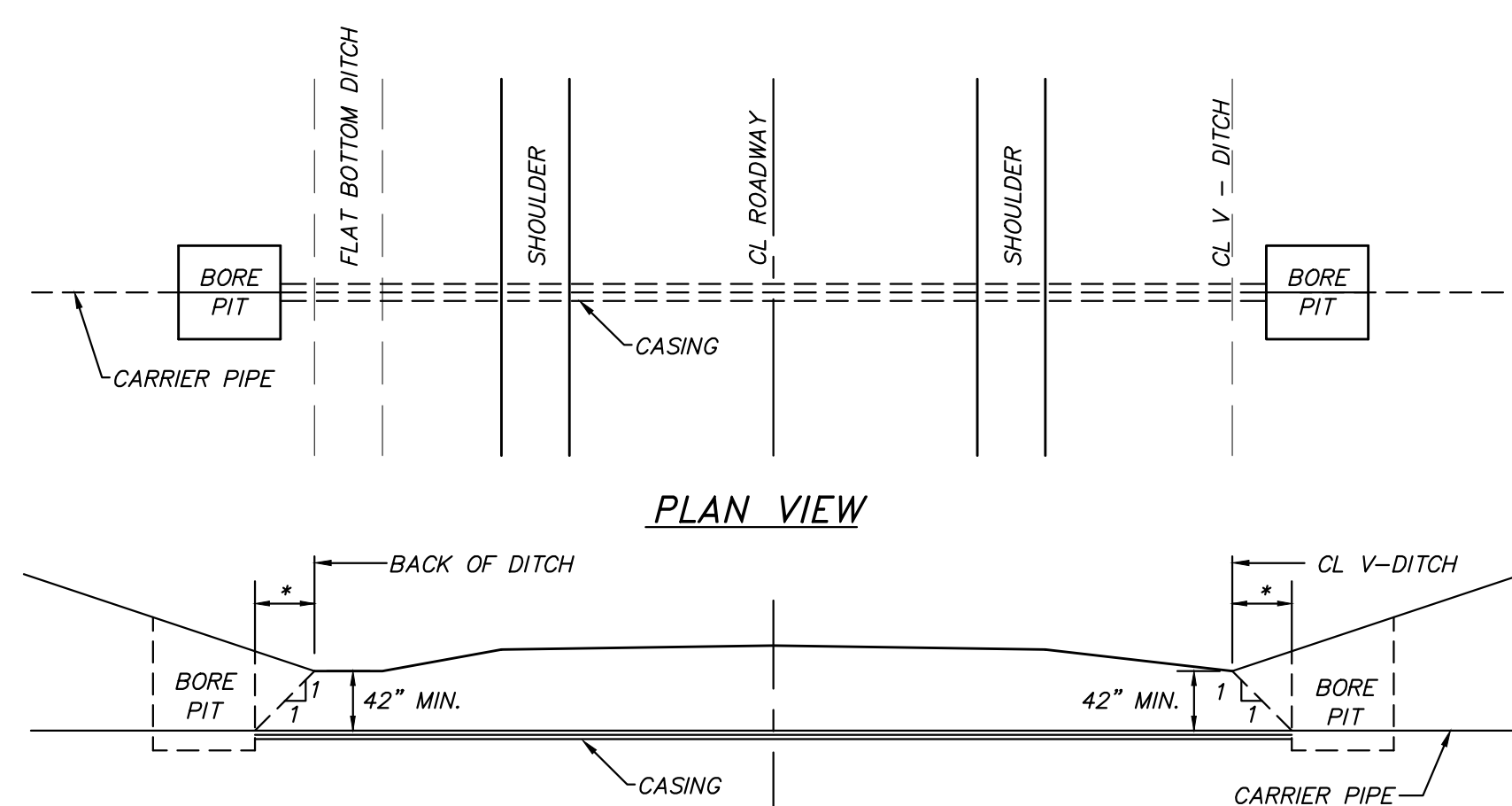
13 OF 32 SHEETS
JANUARY 17, 2023



PIPE INSTALLATION DETAIL
NOT TO SCALE

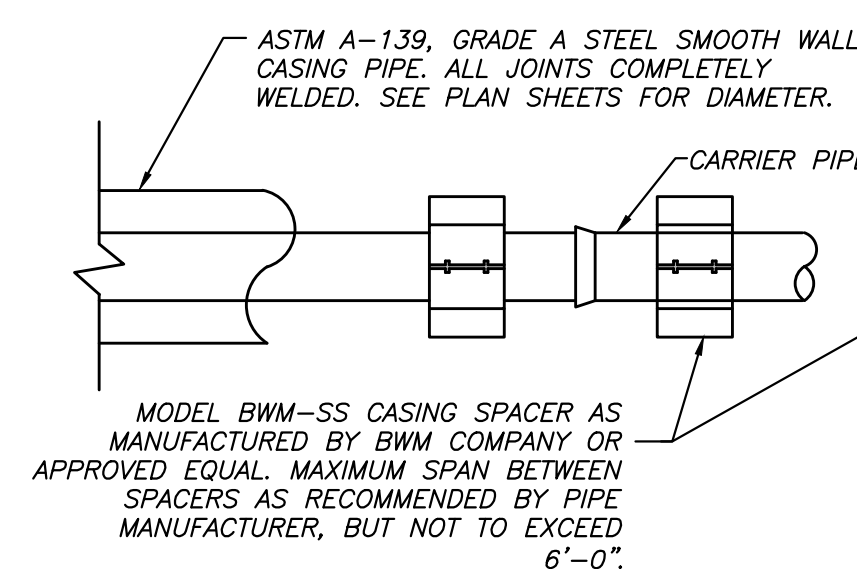
NOTE:
ENDS OF LOCATOR WIRE SHALL BE PLACED IN A 6" DIP RISER PIPE WITH CAST IRON LIDS AT 500' MIN. SPACING AND SHALL BE GROUNDED TO A 4x1/2" DIA. COPPER ROD AT RISERS. ALL WIRE SPLICES SHALL USE BRASS/COPPER SPLIT-BOLT CONNECTORS. RISERS AND GROUNDING RODS FOR LOCATION WIRE ON SERVICE LATERALS SHALL BE PLACED, AT A MINIMUM, AT ROW AND FINAL CLEANOUT LOCATION ON THE PROPERTY.

CARRIER PIPE DIA. (PVC)	CASING PIPE DIA. (STEEL)	MIN. WALL THICKNESS (IN.)
1 1/2"	4"	0.188
1 3/4"	4"	0.188
2"	4"	0.188
2 1/2"	4"	0.188
3"	6"	0.188
4"	10"	0.188
6"	12"	0.188
8"	14"	0.219
10"	16"	0.250
12"	20"	0.281
14"	24"	0.344
16"	24"	0.344
18"	30"	0.406
20"	30"	0.406
24"	36"	0.469

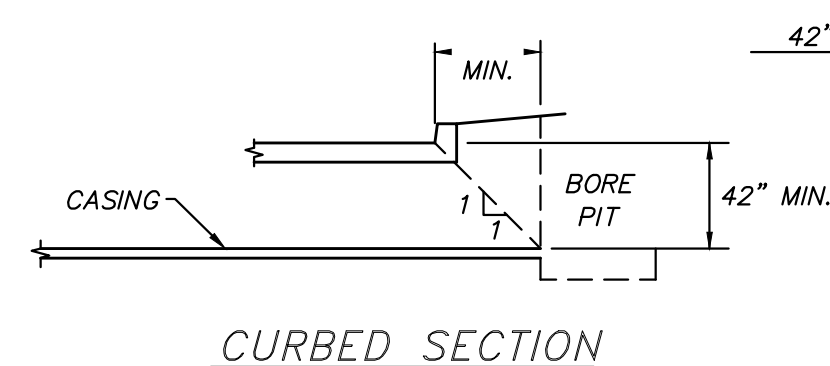


CROSS SECTION

* CASING SHALL EXTEND BEYOND THE BACK OF DITCH FOR A DISTANCE EQUAL TO THE DEPTH OF THE CASING.

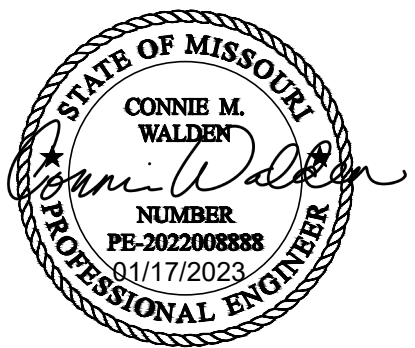


TYPICAL ROAD BORING DETAIL
NOT TO SCALE

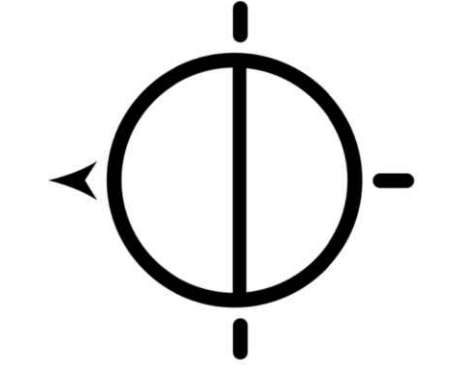


CURBED SECTION

- NOTES:
- STEEL CASING REQUIRED.
 - EACH END OF CASING TO BE SEALED WITH END SEALS PROVIDED BY THE MANUFACTURER OF CASING SPACERS.
 - CASING SHALL BE INSTALLED SIMULTANEOUSLY W/BORING OPERATION. ALL AREAS DISTURBED DURING CONSTRUCTION AND TRENCHES SHALL BE COMPACTED, AND VEGETATED PER SPECIFICATIONS.



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Landscape Architecture: 2007013673



OFFICE OF ADMINISTRATION
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DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 0781563018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 01/17/2023

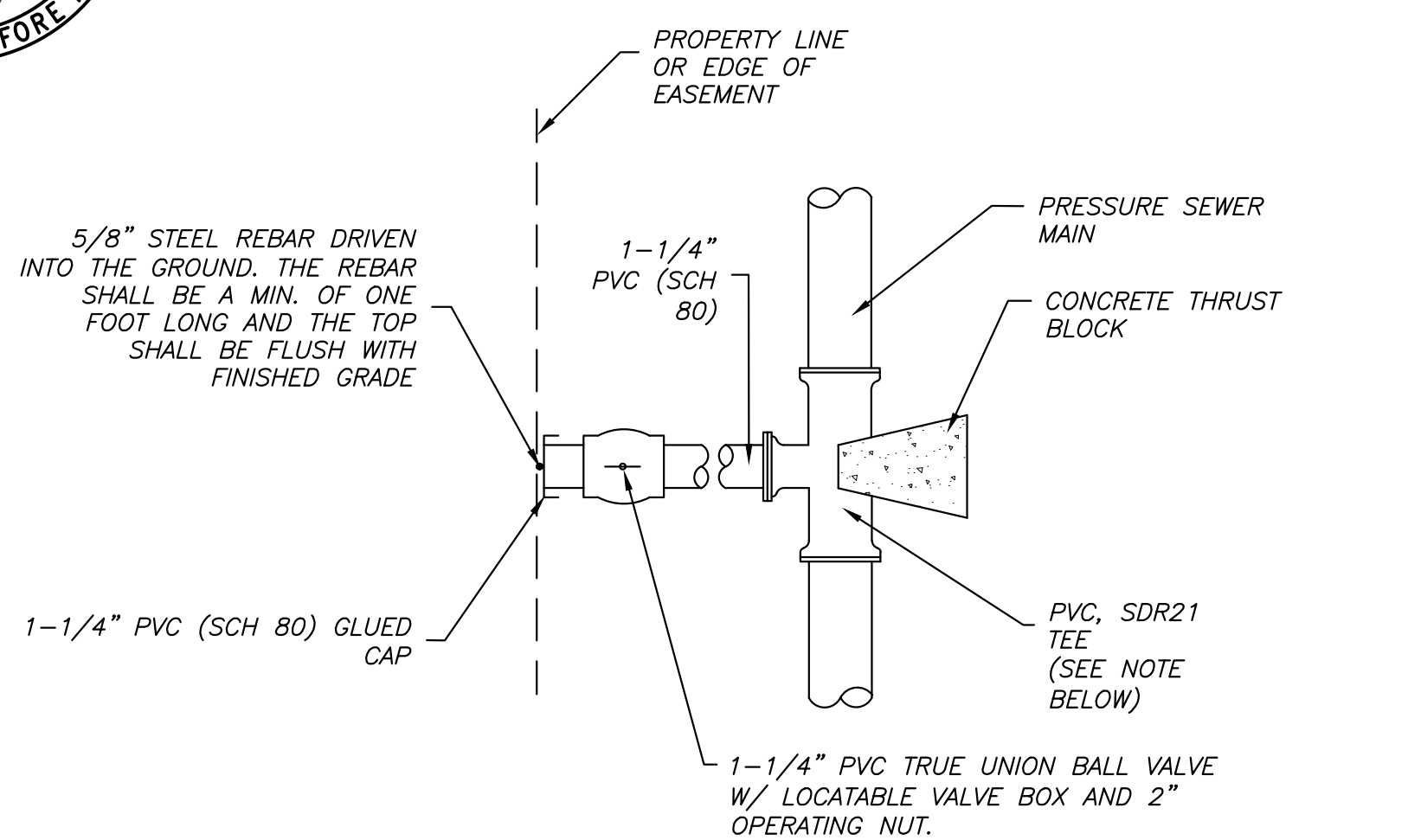
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DRAWN BY: WSH
CHECKED BY: CMW
DESIGNED BY: WSH

SHEET TITLE:
SEWER DETAILS

SHEET NUMBER:

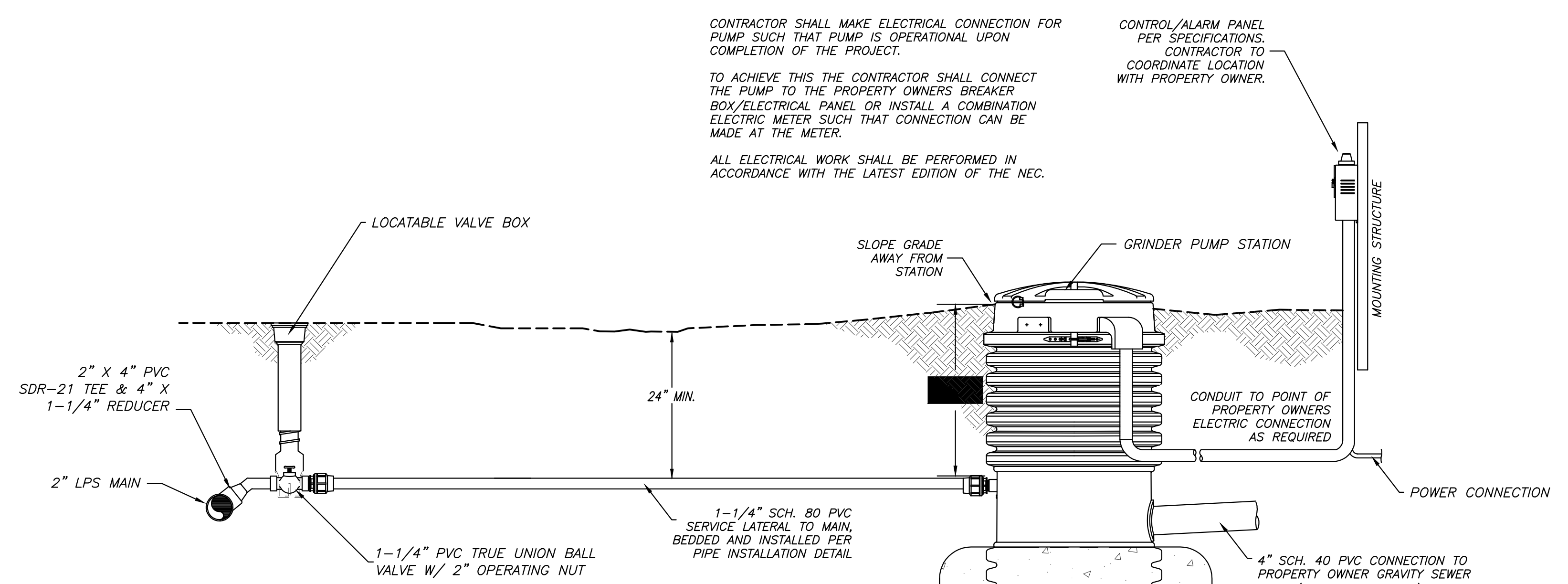
C-504

14 OF 32 SHEETS
JANUARY 17, 2023



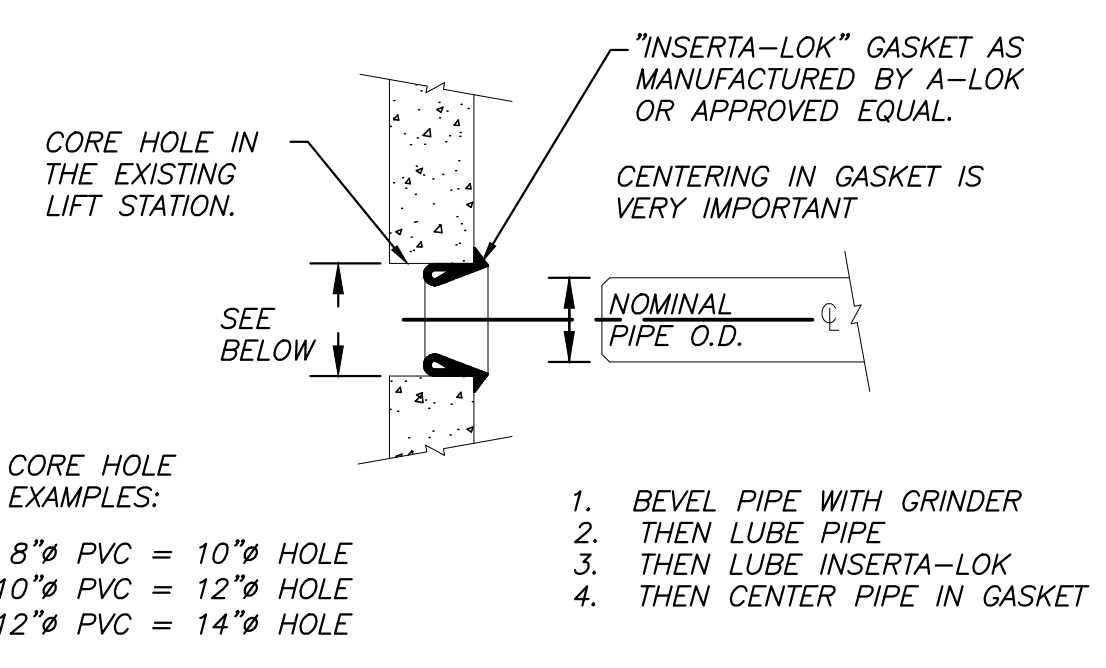
- NOTES:
1. DISCHARGE PIPE SHALL BE SCHEDULE 80 PVC.
 2. TEE SHALL BE AS REQUIRED FOR 2", 2-1/2", 3", AND 4" MAIN LINES. FOR MAIN SIZES GREATER THAN 4", TAPPING SADDLES SHALL BE USED.
 3. CONTRACTOR SHALL COORDINATE LOCATION OF BALL VALVE WITH ENGINEER.
 4. CONTRACTOR SHALL PROVIDE "RECORD DRAWINGS SHOWING EXACT STATION OF LATERAL LOCATION OF AND BALL VALVE."
 5. DEPTH OF COVER FOR SERVICE LINES SHALL BE 24 INCHES MINIMUM, UNLESS OTHERWISE NOTED.
 6. BEDDING AS PER "PIPE INSTALLATION DETAIL."

TYPICAL LOW PRESSURE LATERAL
INSTALLATION DETAIL
NOT TO SCALE



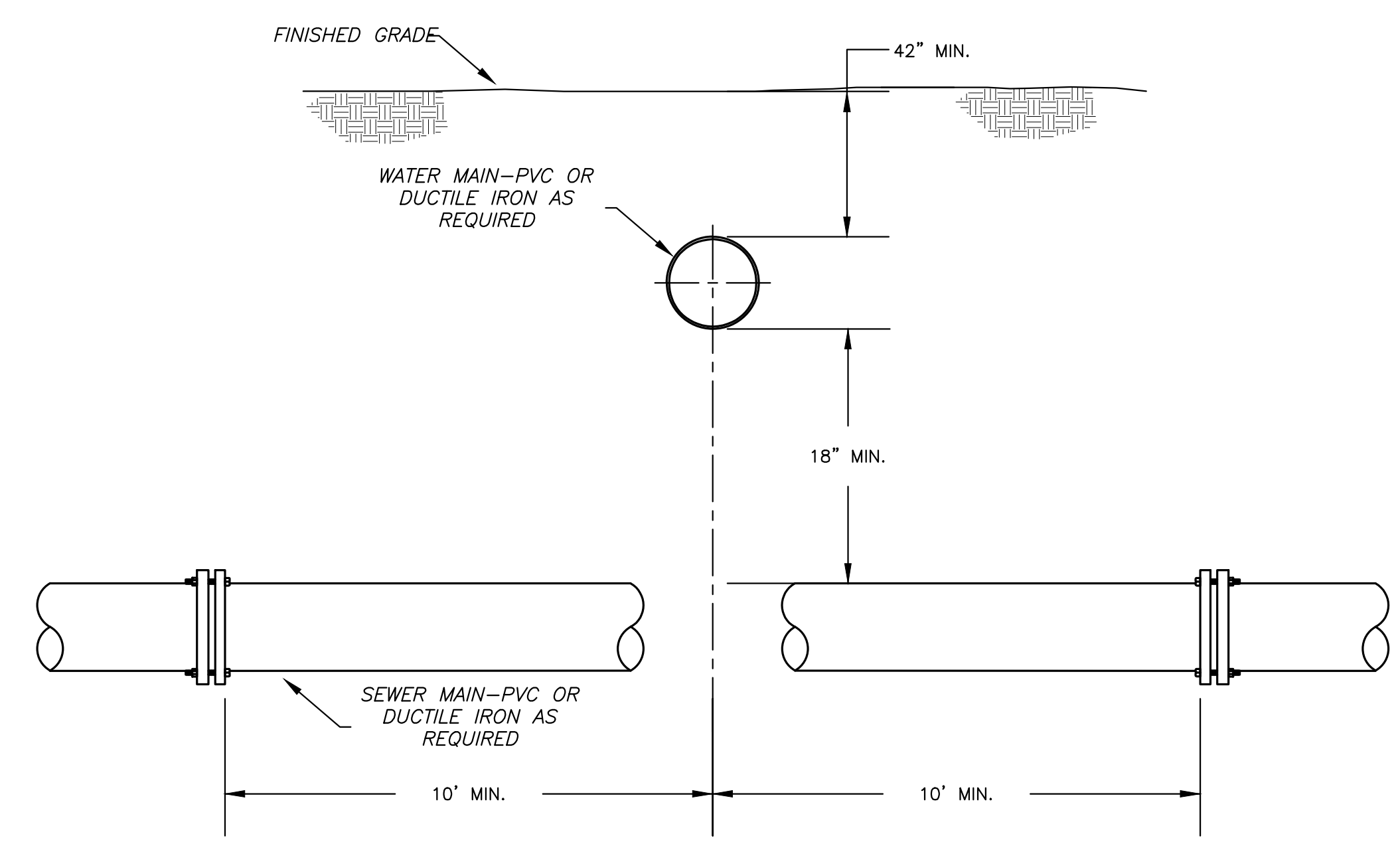
- NOTES:
1. DISCHARGE PIPE SHALL BE SCHEDULE 80 PVC.
 2. CONTRACTOR SHALL COORDINATE LOCATION OF BALL VALVE WITH ENGINEER.
 3. CONTRACTOR SHALL PROVIDE "RECORD DRAWINGS SHOWING EXACT STATION OF LATERAL LOCATION AND BALL VALVE."
 4. DEPTH OF COVER FOR SERVICE LINES SHALL BE 24 INCHES MINIMUM, UNLESS OTHERWISE NOTED.
 5. BEDDING AS PER "PIPE INSTALLATION DETAIL."

TYPICAL LOW PRESSURE LATERAL & GRINDER PUMP
INSTALLATION DETAIL
NOT TO SCALE



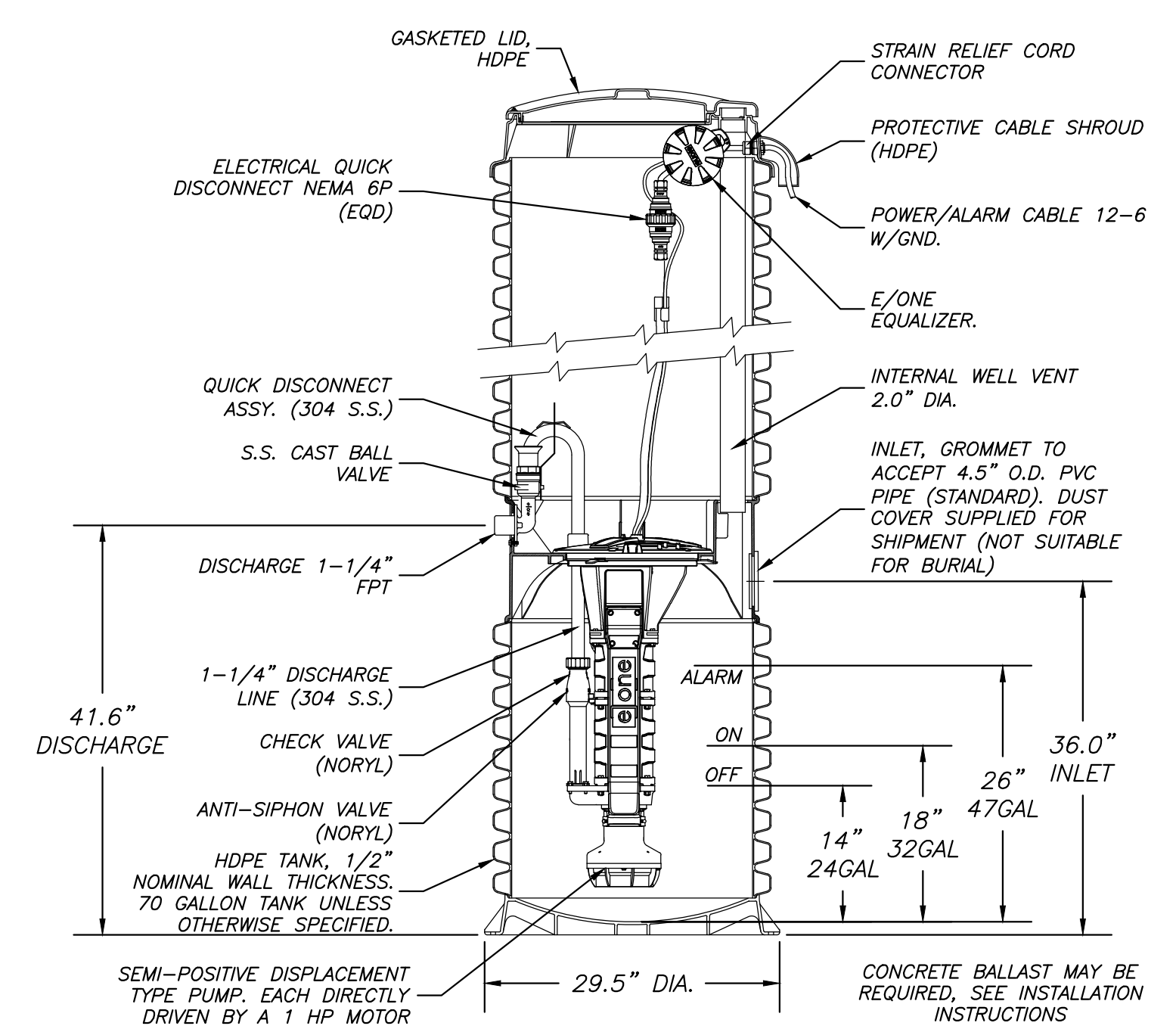
- CORE HOLE EXAMPLES:
- 8" PVC = 10" HOLE
 - 10" PVC = 12" HOLE
 - 12" PVC = 14" HOLE
1. BEVEL PIPE WITH GRINDER
 2. THEN LUBE PIPE
 3. THEN LUBE INSERTA-LOK
 4. THEN CENTER PIPE IN GASKET

CONNECTION TO EXISTING MANHOLE
NOT TO SCALE

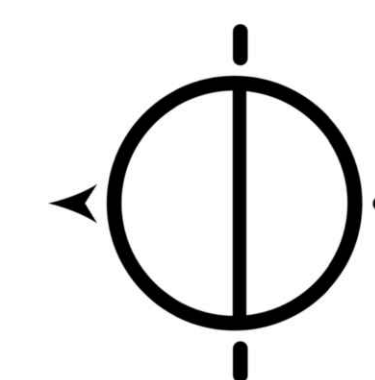


- NOTES:
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 2. IN AREAS WHERE THE RECOMMENDED SEPARATIONS CANNOT BE OBTAINED, EITHER THE WATER LINE OR THE SEWER LINE SHALL BE CONSTRUCTED OF MECHANICAL JOINT PIPE OR CASED IN A CONTINUOUS CASING.

WATER CROSSING DETAIL
WATER OVER SEWER
NOT TO SCALE



TYPICAL SIMPLEX GRINDER PUMP STATION
NOT TO SCALE



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Landscape Architecture: 2007013673

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DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 22 ELECTRIC SITES
WITH 22 PREMIUM SITES

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2223-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 01/17/2023

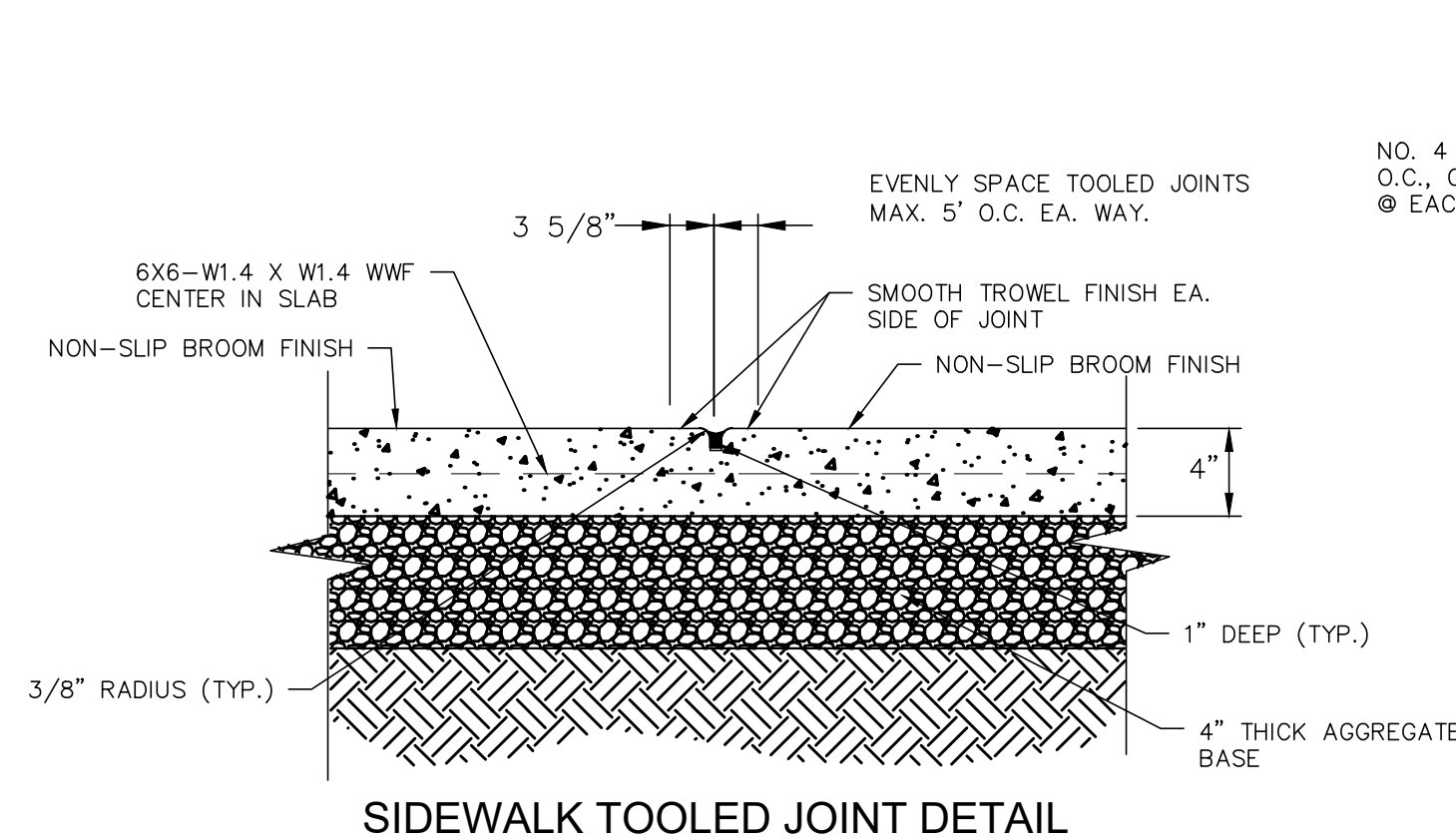
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DRAWN BY: EB
CHECKED BY: CMW
DESIGNED BY: CMW

SHEET TITLE:
SITE DETAILS

SHEET NUMBER:

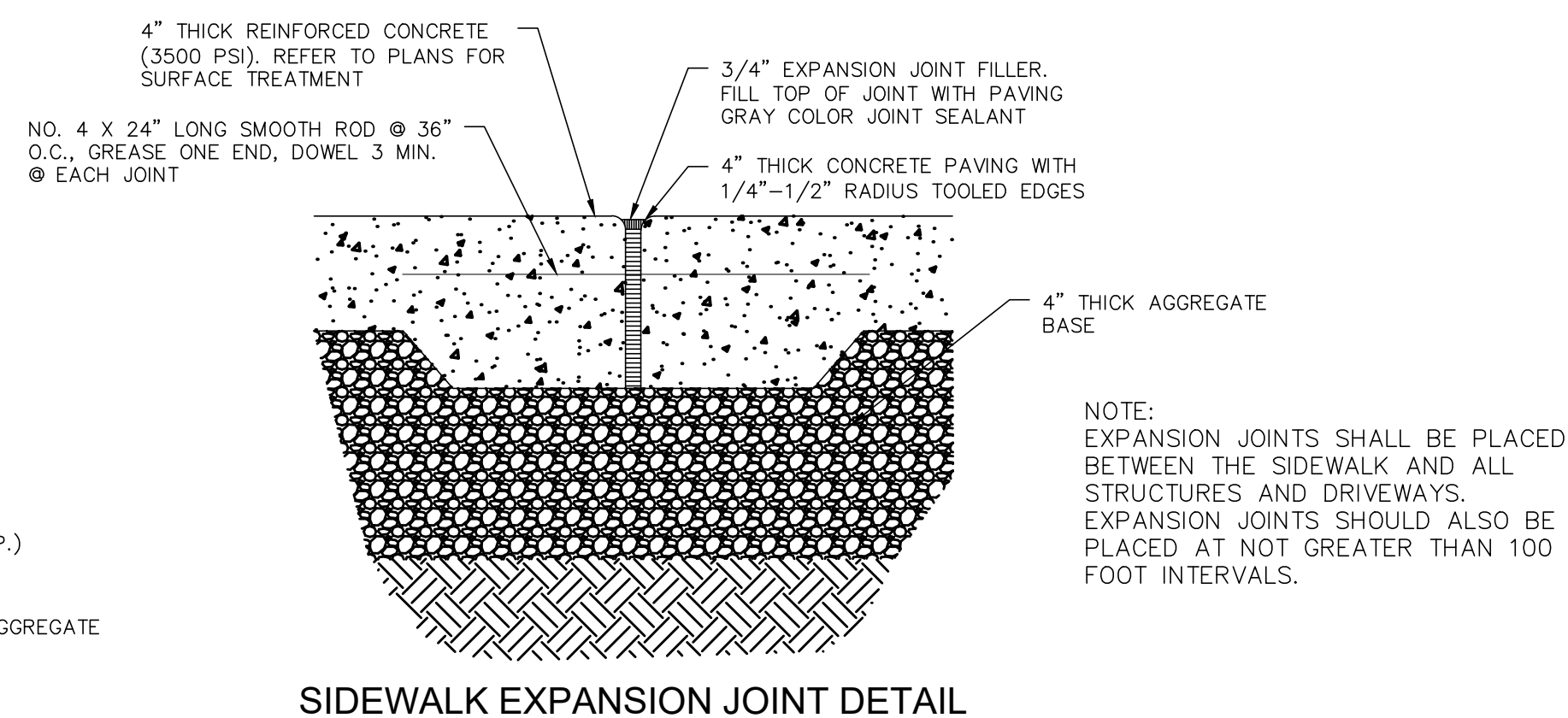
C-505

15 OF 32 SHEETS
JANUARY 17, 2023



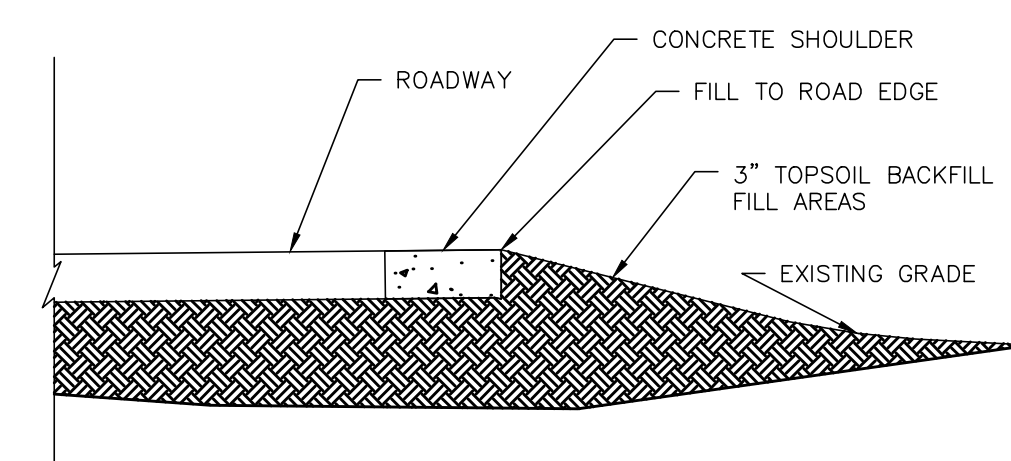
1 SIDEWALK TOOLED JOINT DETAIL

1 SIDEWALK DETAILS
C505 NTS

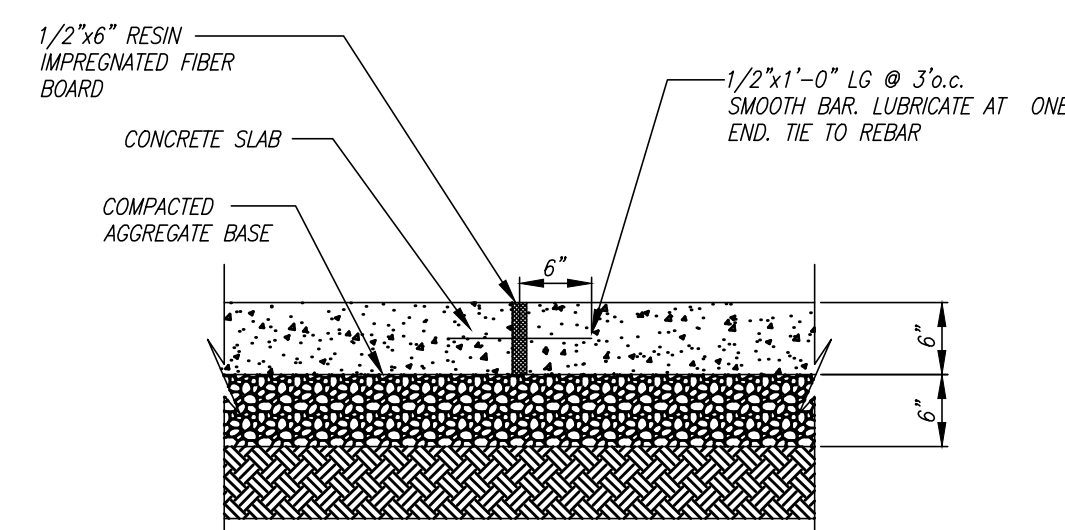


2 SIDEWALK EXPANSION JOINT DETAIL

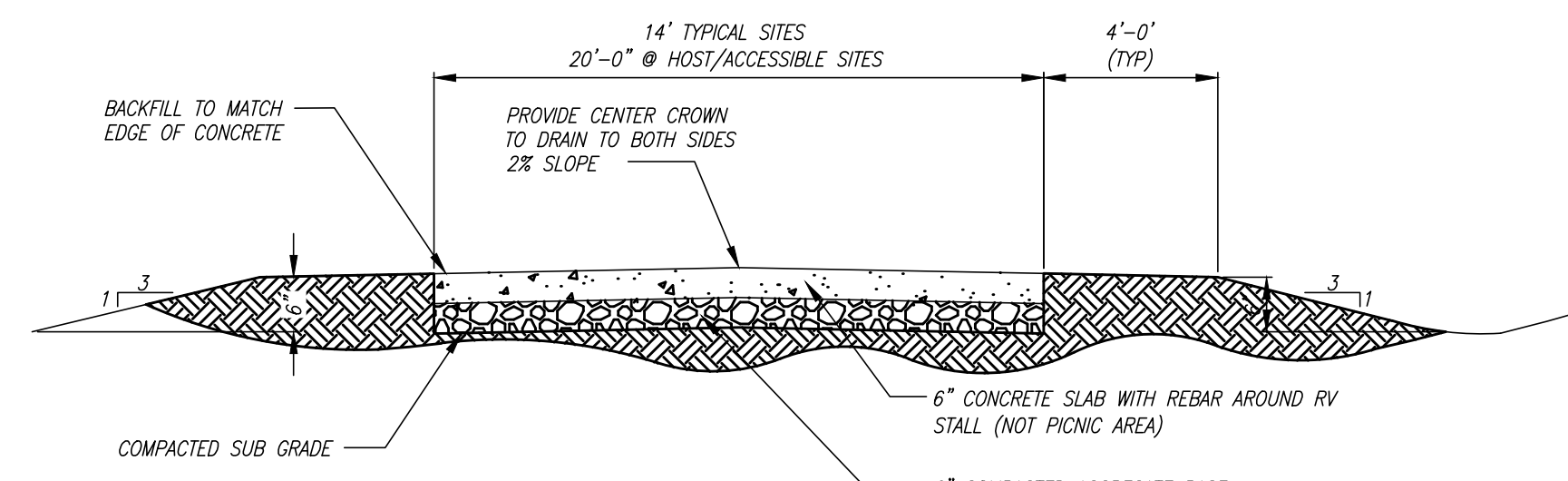
NOTE:
EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES AND DRIVEWAYS. EXPANSION JOINTS SHOULD ALSO BE PLACED AT NOT GREATER THAN 100 FOOT INTERVALS.



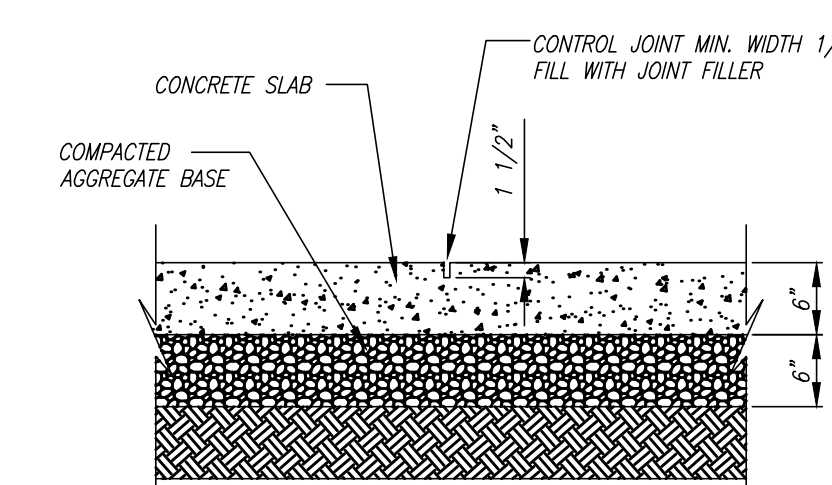
2 ROAD EDGE FINISH DETAIL
C505 NTS



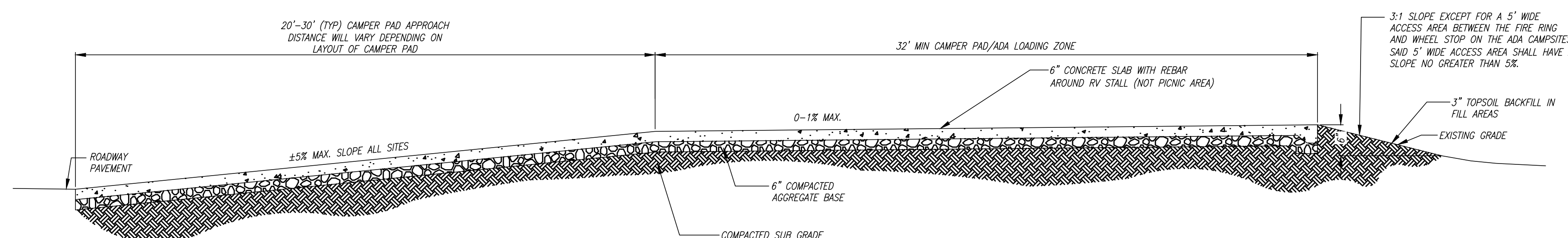
3 EXPANSION JOINT (EJ)
C505 NTS



4 CAMPSITE CROSS SECTION
C505 NTS



5 CONTROL JOINT (CJ)
C505 NTS



6 CAMPSITE LONGITUDINAL ELEVATION
C505 NTS



Missouri State Certificate of Authority Numbers:
Engineering: 2000156885; Land Surveying: 2001011476;
Landscape Architecture: 2007013673

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DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION:
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 01/17/2023

CAD DWG FILE: X2215-01_S-101
DRAWN BY: KAB
CHECKED BY: JAB
DESIGNED BY: JAB

SHEET TITLE:
**FOUNDATION
DETAILS FOR 30' DIA.
YURT - ADD ALT. 1**

SHEET NUMBER:

S-101

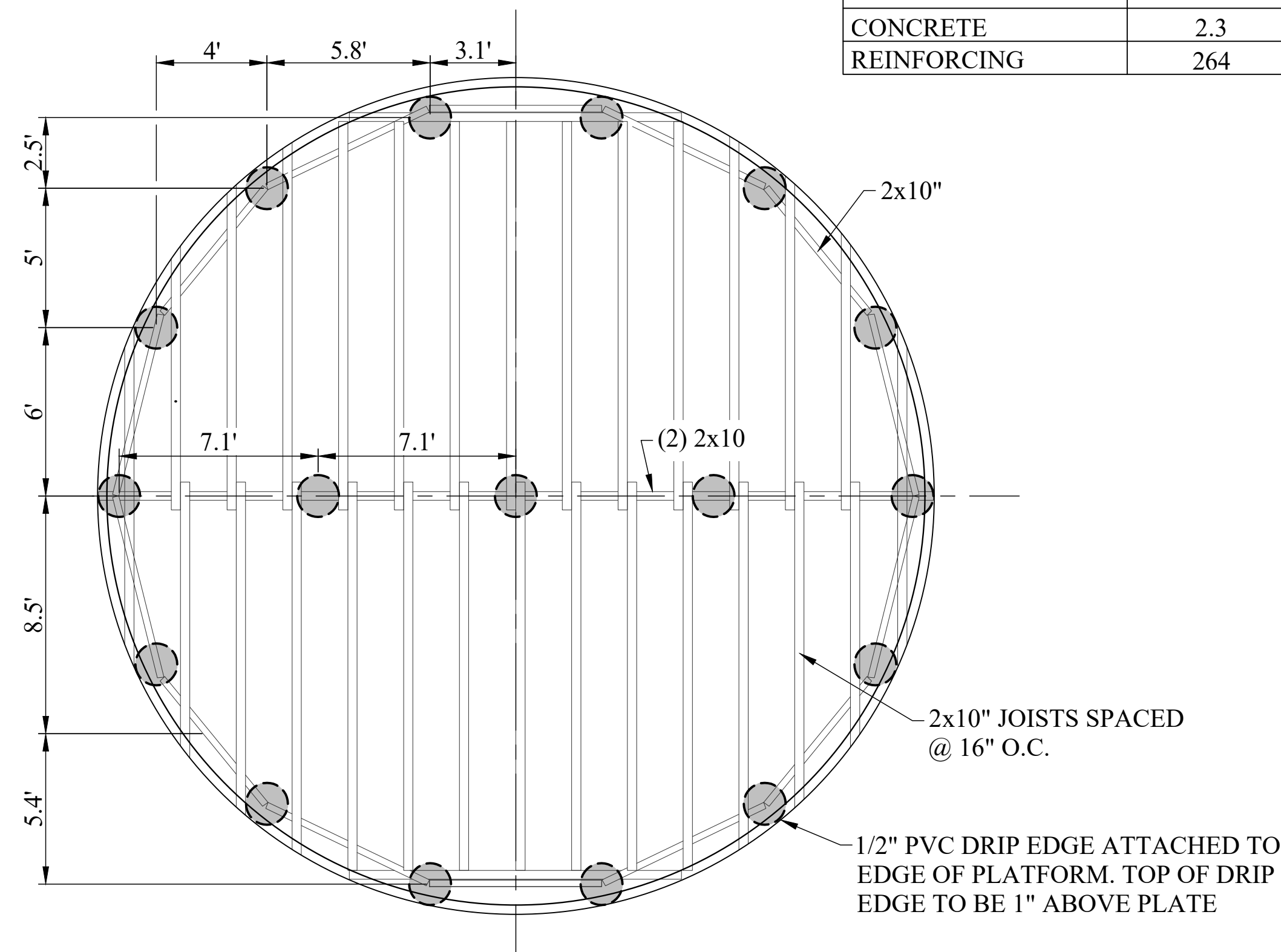
16 OF 32 SHEETS
JANUARY 17, 2023

**ESTIMATED QUANTITIES
(ADD ALTERNATE 1)**

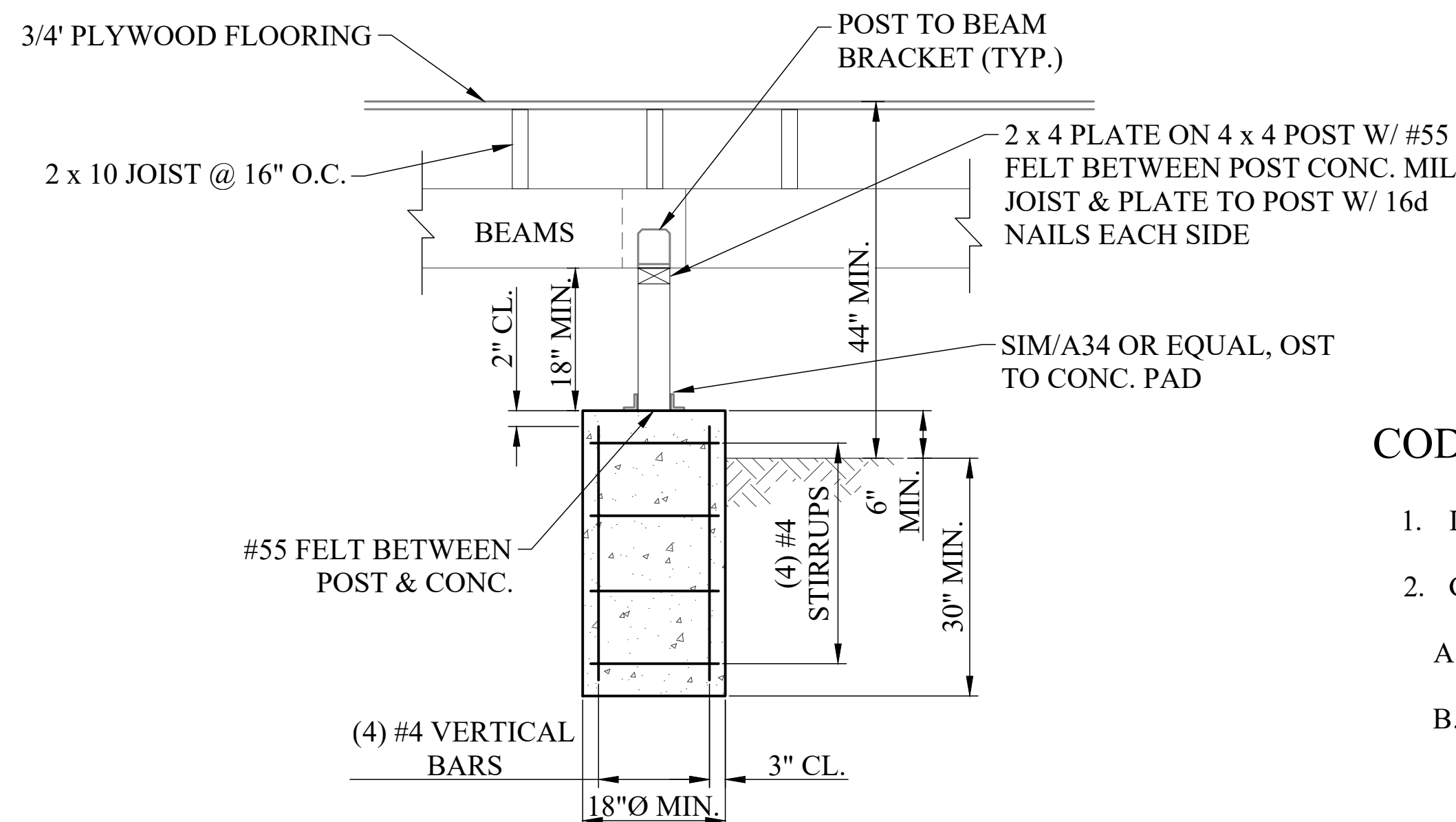
ITEM	TOTAL	UNITS
CONCRETE	2.3	CU. YARD
REINFORCING	264	POUNDS

NOTES:

- 3/4" PLYWOOD FLOORING TO BE LAID PERPENDICULAR TO JOISTS AND TRIMMED TO THE SAME DIAMETER AS THAT OF THE YURT.
- FOOTINGS SHALL BE EMBEDDED IN THE GROUND A MIN. 30" AND SHOULD EXTEND 6" ABOVE GROUND SURFACE MINIMUM.
- LUMBER SHALL BE NO. 3 SOUTHERN PINE MINIMUM. REFER TO CHAPTER 5.6 OF 2018 IRC FOR ALTERNATE STRUCTURAL LUMBER.



30' PLATFORM FRAMING PLAN



TYPICAL FOOTING

NOTES:

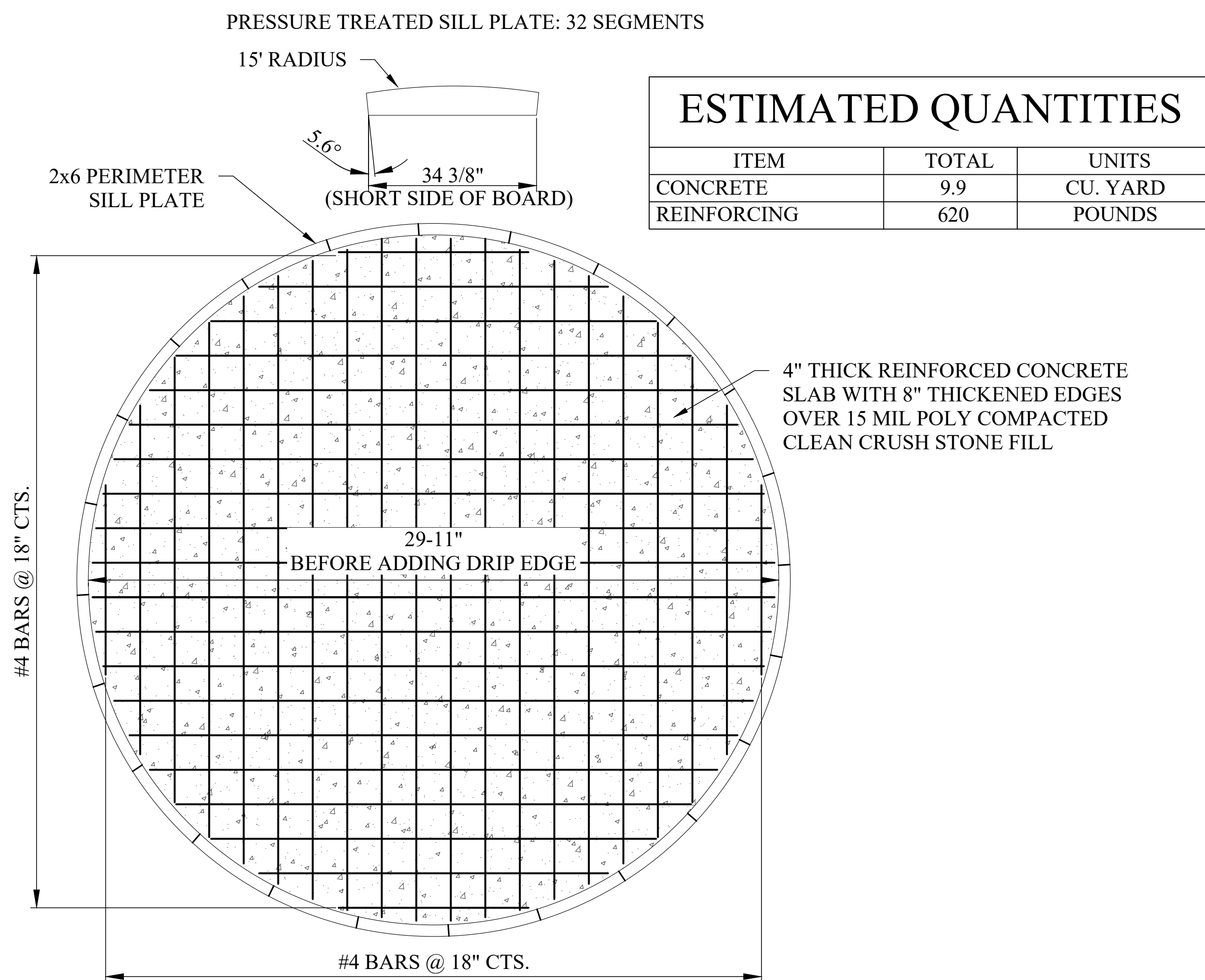
CONCRETE DIAMETER = 29'-11" ANCHOR RING THICKNESS = 1/2"
DRIP EDGE THICKNESS = 1/2" MINIMUM HEIGHT ABOVE GRADE = 6"

- CONCRETE SHALL BE 3,000 psi @ 28 DAYS.
- CONTRACTOR SHALL PROVIDE CONTROL JOINTS THAT ARE 1/4 OF SLAB THICKNESS AT A MAXIMUM SPACING OF 10' x 10'.
- CONTRACTOR SHALL COMPACT SOIL BENEATH FOUNDATION CONCRETE PRIOR TO PLACEMENT OF CONCRETE.

PIER DETAILS FOR 30' DIAMETER YURT

CODE STUDY

1. DESIGN CODES	IBC 2021
2. GRAVITY LOADS	
A. DEAD LOADS-SELF WEIGHT	
B. LIVE LOADS	
- ROOF LIVE LOAD	5 PSF MIN
- LIVE LOAD-FLOOR	40 PSF
C. SNOW LOAD	
- P _s GROUND SNOW LOAD	24 PSF
- IMPORTANCE FACTOR (I)	1.0
- SNOW EXPOSURE FACTOR (C _e)	1.0
- THERMAL FACTOR	1.0
- SNOW DRIFT	PER CODE
3. LATERAL LOADS	
A. WIND LOADS	
- WIND SPEED	107 MPH
- IMPORTANCE FACTOR (I)	1.0
- EXPOSURE CATEGORY	C
- DIRECTIONALITY FACTOR (K _d)	0.85
- TOPOGRAPHIC FACTOR (K _{zt})	0.85
- INTERNAL PRESSURE (GC _{pi})	±0.18
- UPLIFT (PSF)	22 PSF

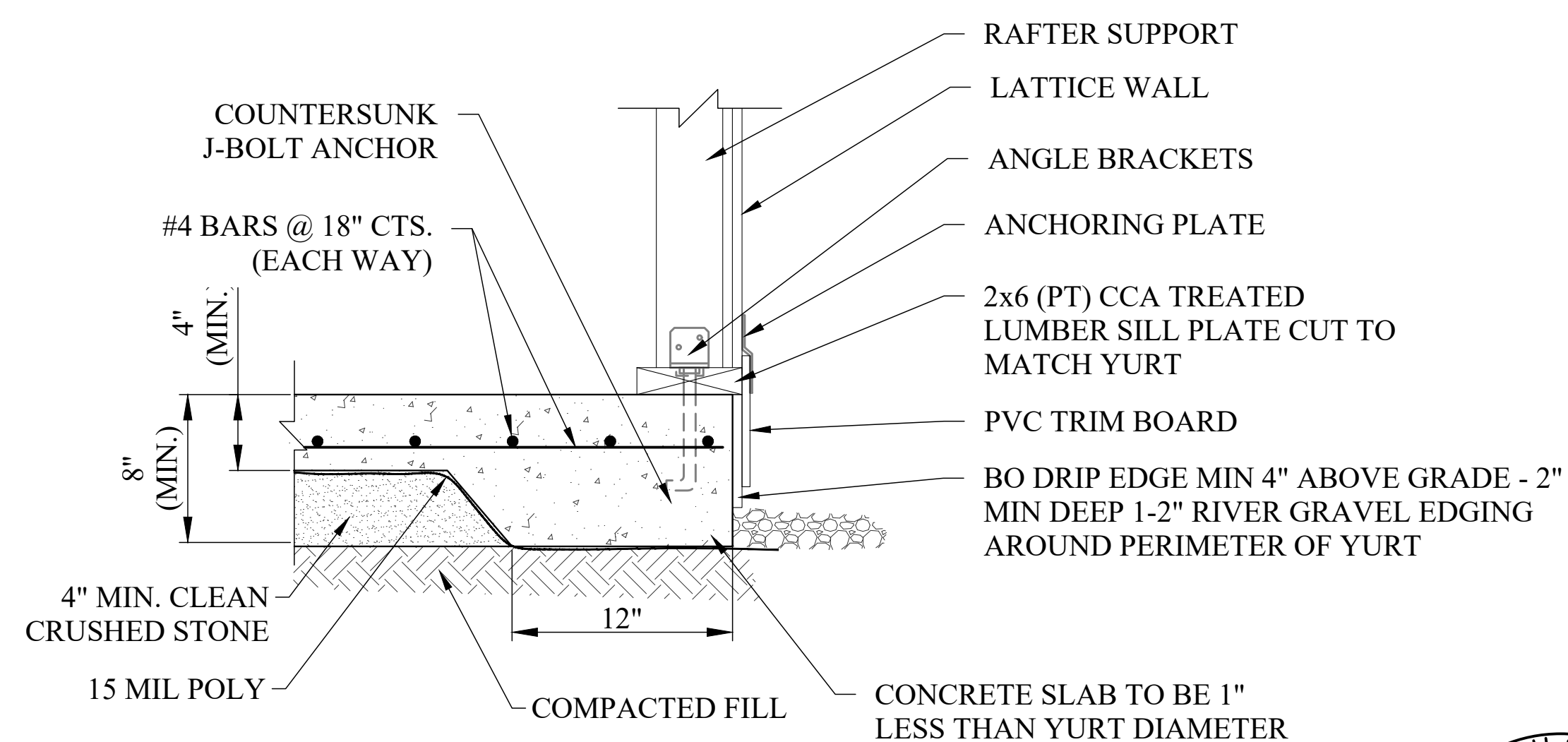


CIRCULAR SLAB WITH 2x6 SILL PLATE

NOTES:

CONCRETE DIAMETER = 29'-11" ANCHOR RING THICKNESS = 1/2"
DRIP EDGE THICKNESS = 1/2" MINIMUM HEIGHT ABOVE GRADE = 6"

- CONCRETE SHALL BE 3,000 psi @ 28 DAYS.
- CONTRACTOR SHALL PROVIDE CONTROL JOINTS THAT ARE 1/4 OF SLAB THICKNESS AT A MAXIMUM SPACING OF 10' x 10'.
- CONTRACTOR SHALL COMPACT SOIL BENEATH FOUNDATION CONCRETE PRIOR TO PLACEMENT OF CONCRETE.

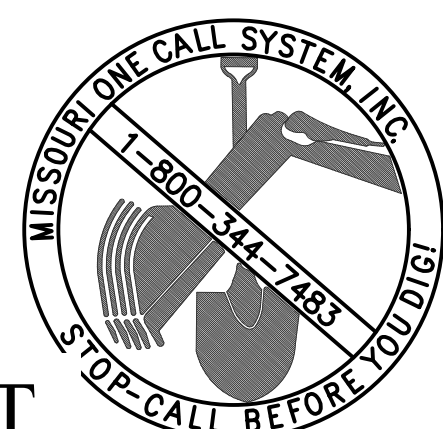


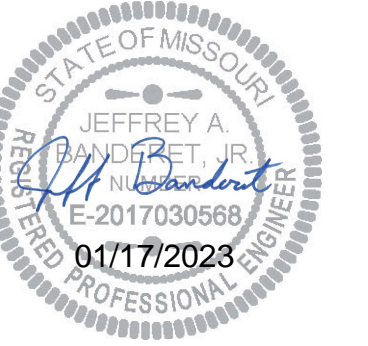
YURT CONNECTION TO SLAB DETAIL

NOTE:

- PROVIDE 1/2" DIA. x 6" MIN. EMBEDDED ANCHOR BOLT WITH MIN. 2" WASHER @ 6'-0" O.C. MAX. AND (2) ANCHOR BOLTS MIN. PER SILL PLATE RUN.

CONCRETE SLAB DETAILS FOR 30' DIAMETER YURT





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DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 01/17/2023

CAD DWG FILE: X2215-01_S-101
DRAWN BY: KAB
CHECKED BY: JAB
DESIGNED BY: JAB

SHEET TITLE:
DECK DETAILS
FOR 30' DIA. YURT -
ADD ALT. 1

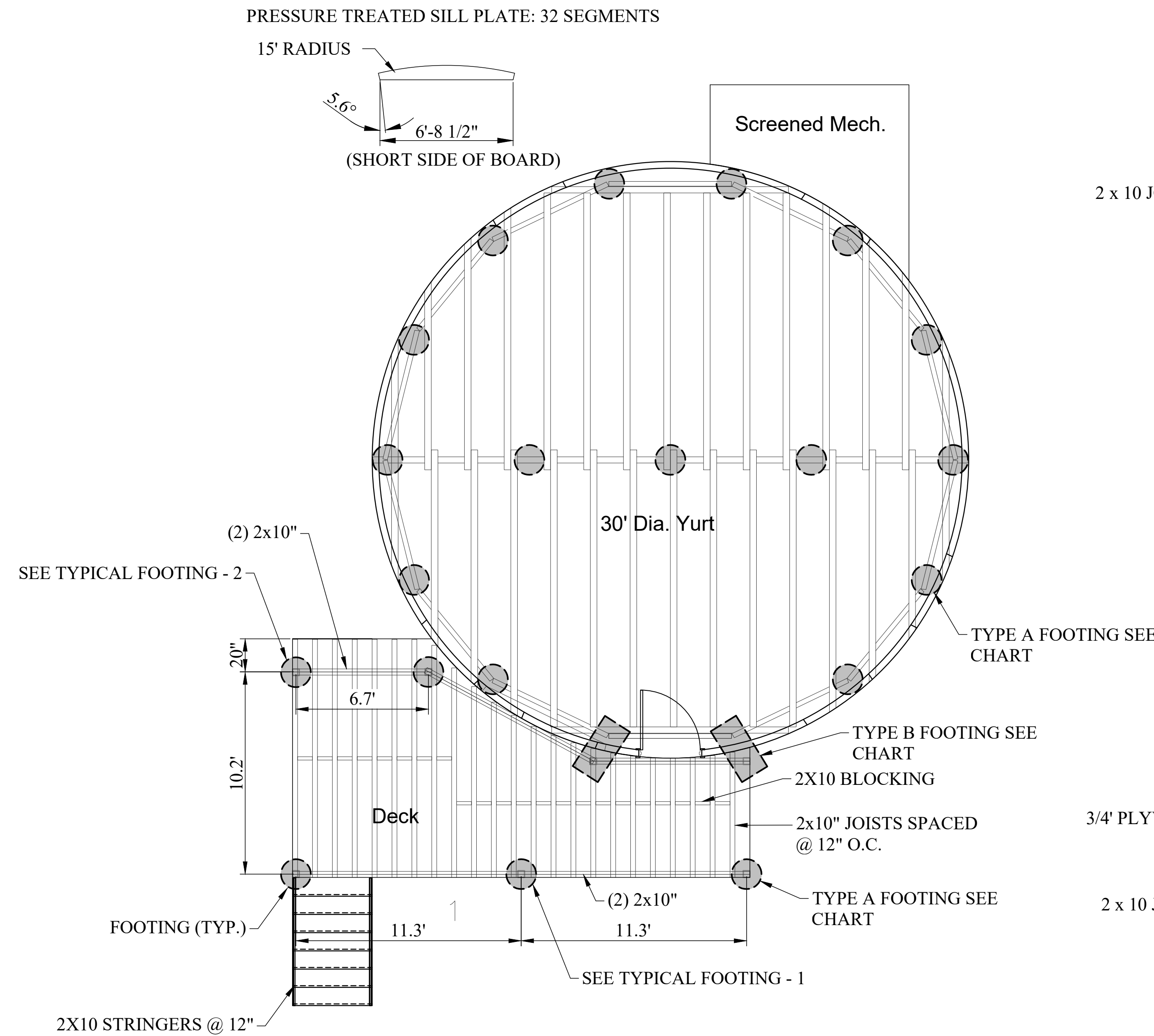
SHEET NUMBER:

S-102

17 OF 32 SHEETS
JANUARY 17, 2023

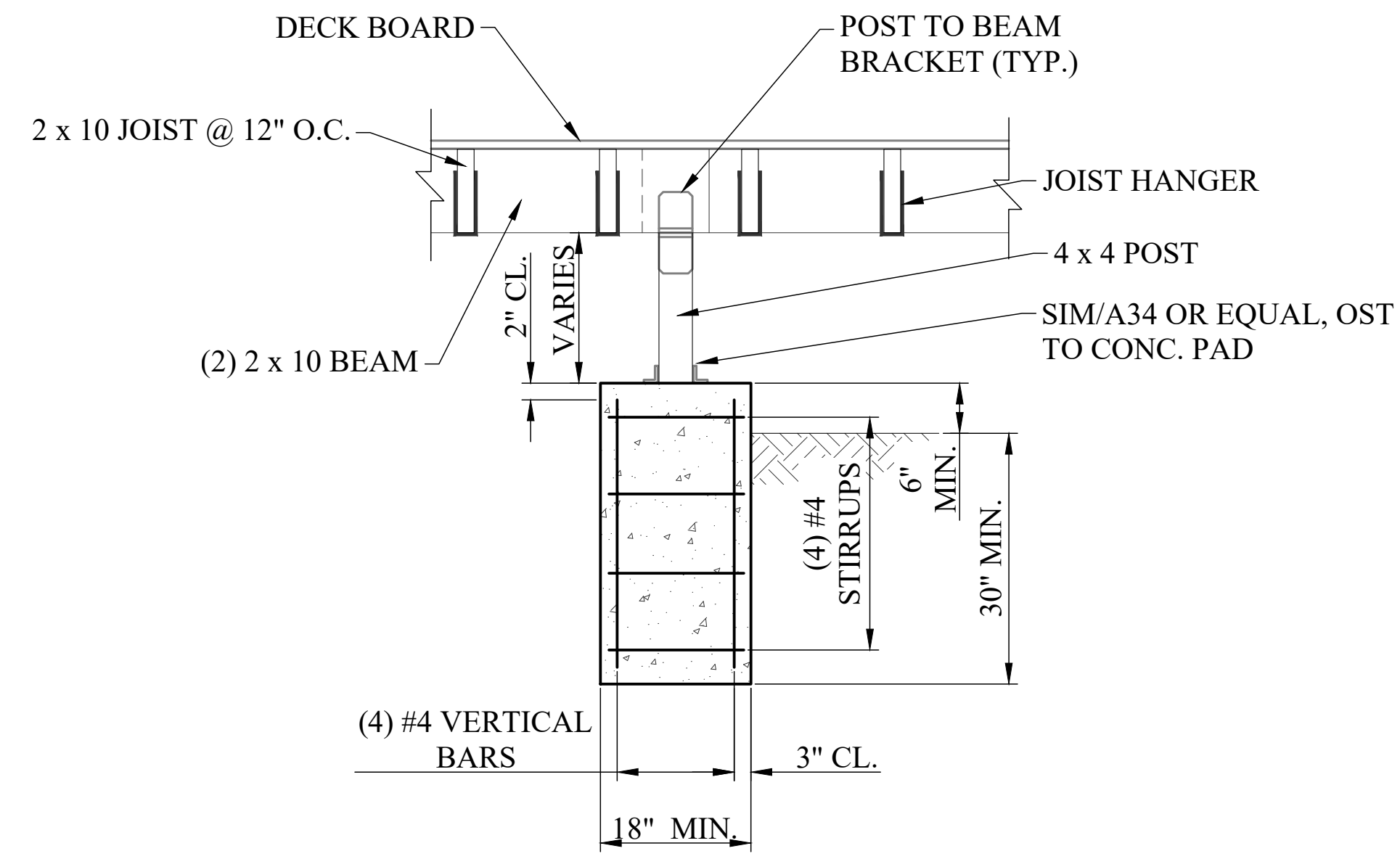
**ESTIMATED QUANTITIES
ALTERNATE DECK**

ITEM	TOTAL	UNITS
CONCRETE	2.3	CU. YARD
REINFORCING	264	POUNDS

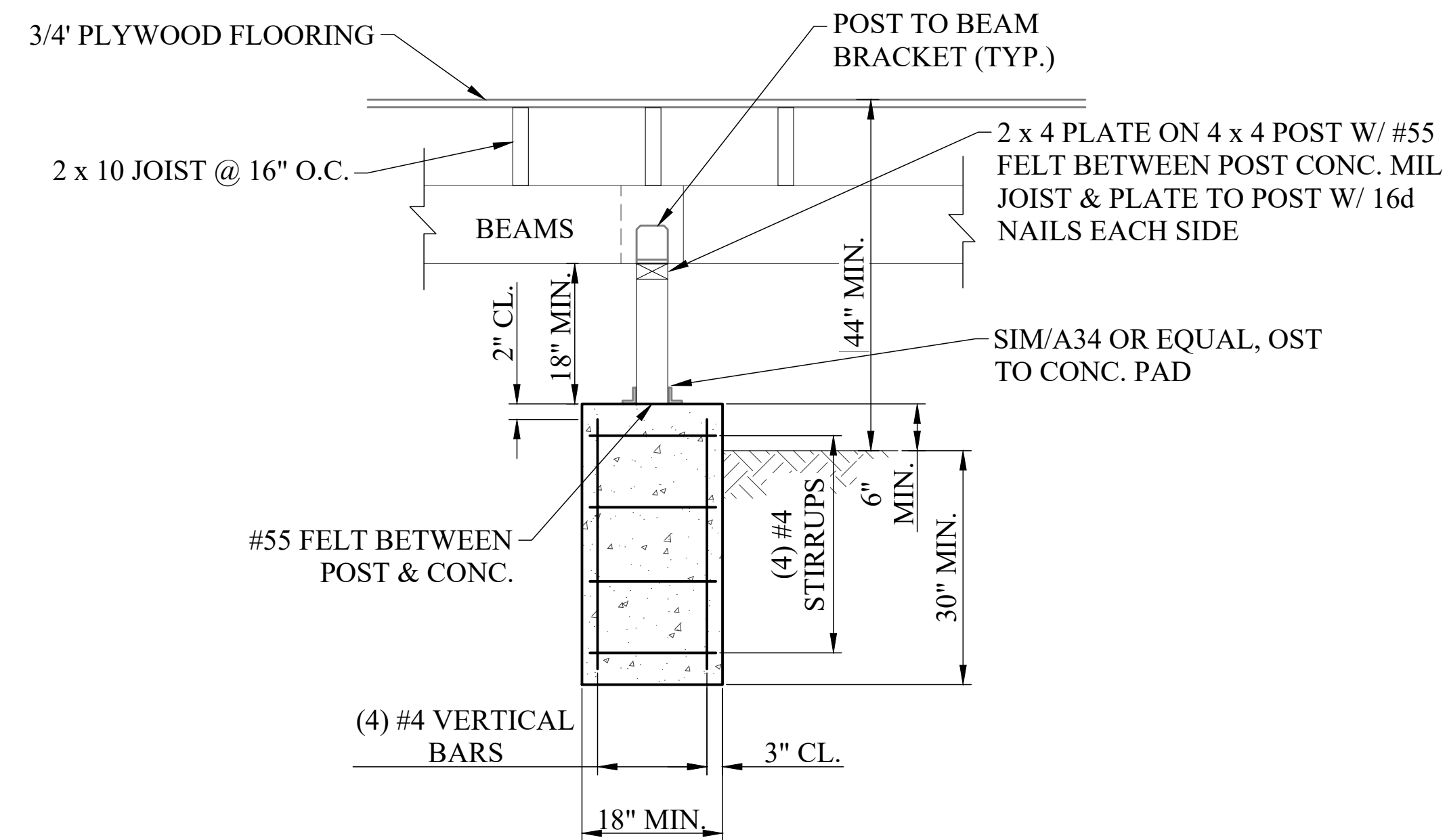


**30' DECK FRAMING PLAN
YURT 2**

NOTE:
ALL LUMBER FOR DECK SHALL BE PRESSURE TREATED.



TYPICAL FOOTING - 1



TYPICAL FOOTING - 2

FOOTING SIZES	
ID	DIMENSIONS
A	18"Ø X 36" DEEP
B	18" WIDE X 3' LONG X 36" DEEP

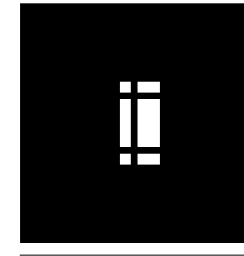
ALTERNATE DECK FOR 30' DIAMETER YURT





Digitally signed
by Brent Stevens
Date: 2023.01.17
13:34:10-0600

hdesigngroup
architecture + design



5039 S National Avenue Springfield, MO 65810 417.887.8595

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DEPARTMENT OF
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MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X221601_A-101
DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

SHEET TITLE:
OVERALL PLANS

SHEET NUMBER:

A-101

SHEET 18 OF 32
1/17/2023 9:12:06 AM

GENERAL NOTES - FLOOR PLAN

- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE +/- AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- EQUIPMENT SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE EQUIPMENT, MECHANICAL, PLUMBING, AND/OR ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- COORDINATE WITH OWNER ON OWNER SUPPLIED APPLIANCES AND EQUIPMENT PRIOR TO FABRICATION/INSTALLATION.
- WALL TYPES INDICATE TYPICAL CONDITIONS, SOME CONDITIONS MAY VARY. REFER TO SECTIONS, INTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS. WALL SECTIONS INDICATE PRIMARY WALL TYPE, OVERLAIN VENEERS, WAINSCOT, PILASTERS, PAINT, WALL COVERINGS ETC. ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, SCHEDULES, SPECIFICATIONS OR OTHER DETAILS.
- GENERAL CONTRACTOR TO PROVIDE ALL BACKING AS REQUIRED IN WALL FOR CABINETS, FIRE EXTINGUISHER CABINETS, GRAB BARS, BATHROOM ACCESSORIES, WALL STOP LOCATIONS, ETC. AS REQUIRED.
- PENETRATIONS OF PIPES, CONDUIT, DUCTS AND VENTS THROUGH RATED ASSEMBLIES SHALL BE PROTECTED AS REQUIRED TO MAINTAIN ASSEMBLY RATING.
- ALL WALL INSULATION SHALL EXTEND THE FULL HEIGHT OF THE WALL UNLESS NOTED OTHERWISE.
- RECESSED FIXTURE SUCH AS OUTLETS SHOULD NOT BE PLACED BACK TO BACK IN THE SAME STUD CAVITY.

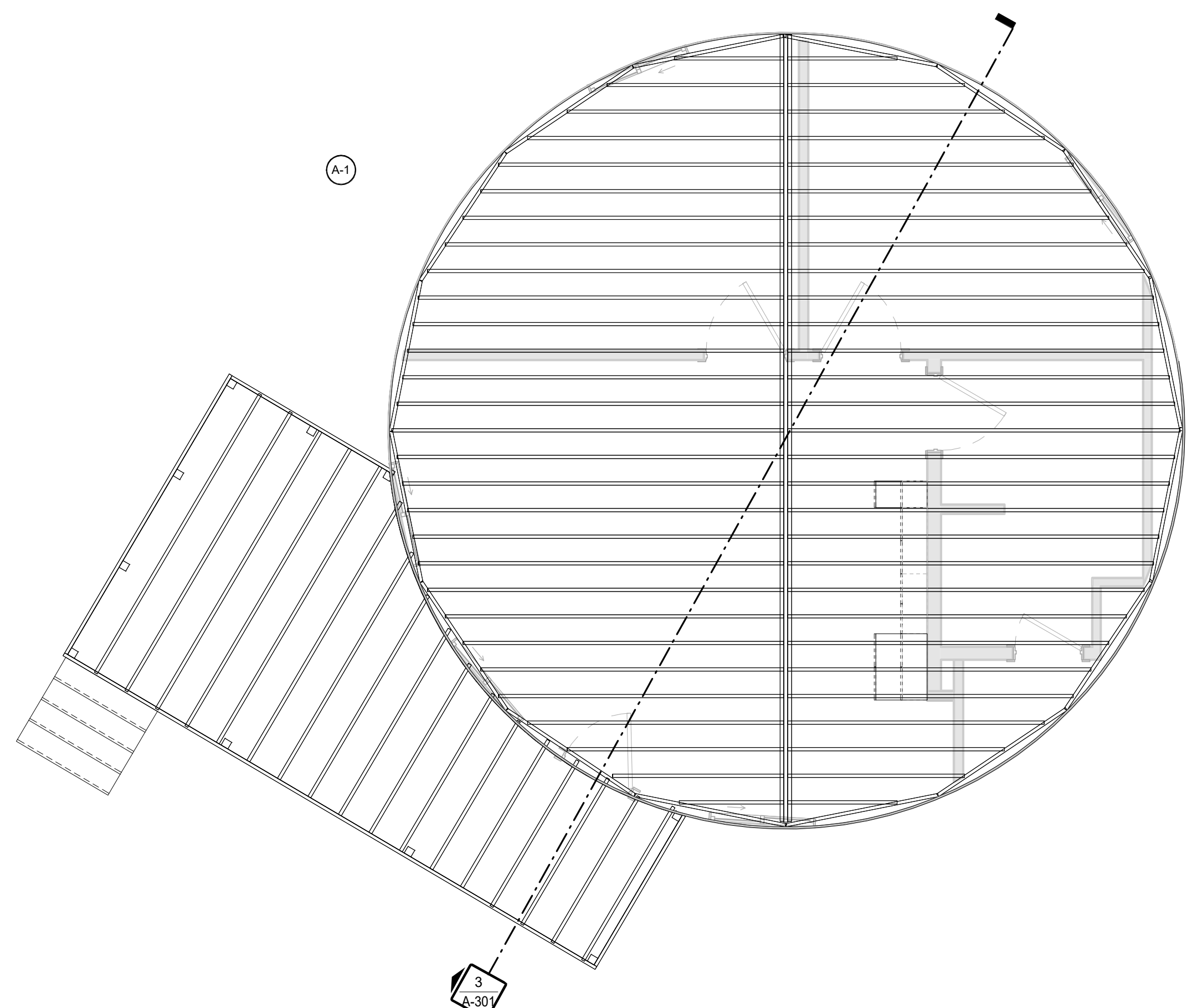
GENERAL NOTES - PARTITIONS

- ARCHITECTS RECOMMENDATION ON RESTROOM PARTITIONS: ALL PARTITION TYPES TO RECEIVE ACOUSTIC SEALANT ON BOTH SIDES OF THE WALL AT TOP AND BOTTOM.
- ALL PARTITIONS TO RECEIVE WALL BASE ON BOTH SIDES OF WALL. REFER TO FINISH PLAN AND LEGEND FOR MORE INFORMATION.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION TYPE WALL TAG SHALL BE CLARIFIED FOR INTERPRETATION BY ARCHITECT PRIOR TO BIDDING. CONTRACTOR SHALL COORDINATE WALL FRAMING ABOVE FINISHED CEILINGS WITH FRAMING, PLUMBING, AND HVAC CONTRACTORS. FRAMING REQUIRED TO FACILITATE PIPING OR DUCTWORK PENETRATIONS - REFER TO MEP ENGINEERING DRAWINGS FOR LOCATIONS OF LOCATIONS OF NEW DUCTS, PIPING, ETC. SOME WALL FRAMING / BRACING MAY REQUIRE ADJUSTMENT OR RE-LOCATION TO ALLOW FOR DUCT / PIPE ROUTING. REFER TO U.L. DESIGN DIRECTORY FOR LISTED DESIGN NUMBERS NOT INDICATED.
- ASSEMBLIES SHOULD BE AIRTIGHT. SEAL ALL PENETRATIONS AND CRACKS WITH ACOUSTICAL SEALANT.
- WALL SECTIONS INDICATE PRIMARY WALL TYPE, OVERLAIN VENEERS, WAINSCOT, PILASTERS, PAINT, WALL COVERINGS ETC. ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, SCHEDULES, SPECIFICATIONS OR OTHER DETAILS.
- REFERENCE INTERIOR ELEVATION SHEETS FOR THE HEIGHTS OF FINISH MATERIALS (I.E. - TILE, WOOD PLANKS, ETC.)

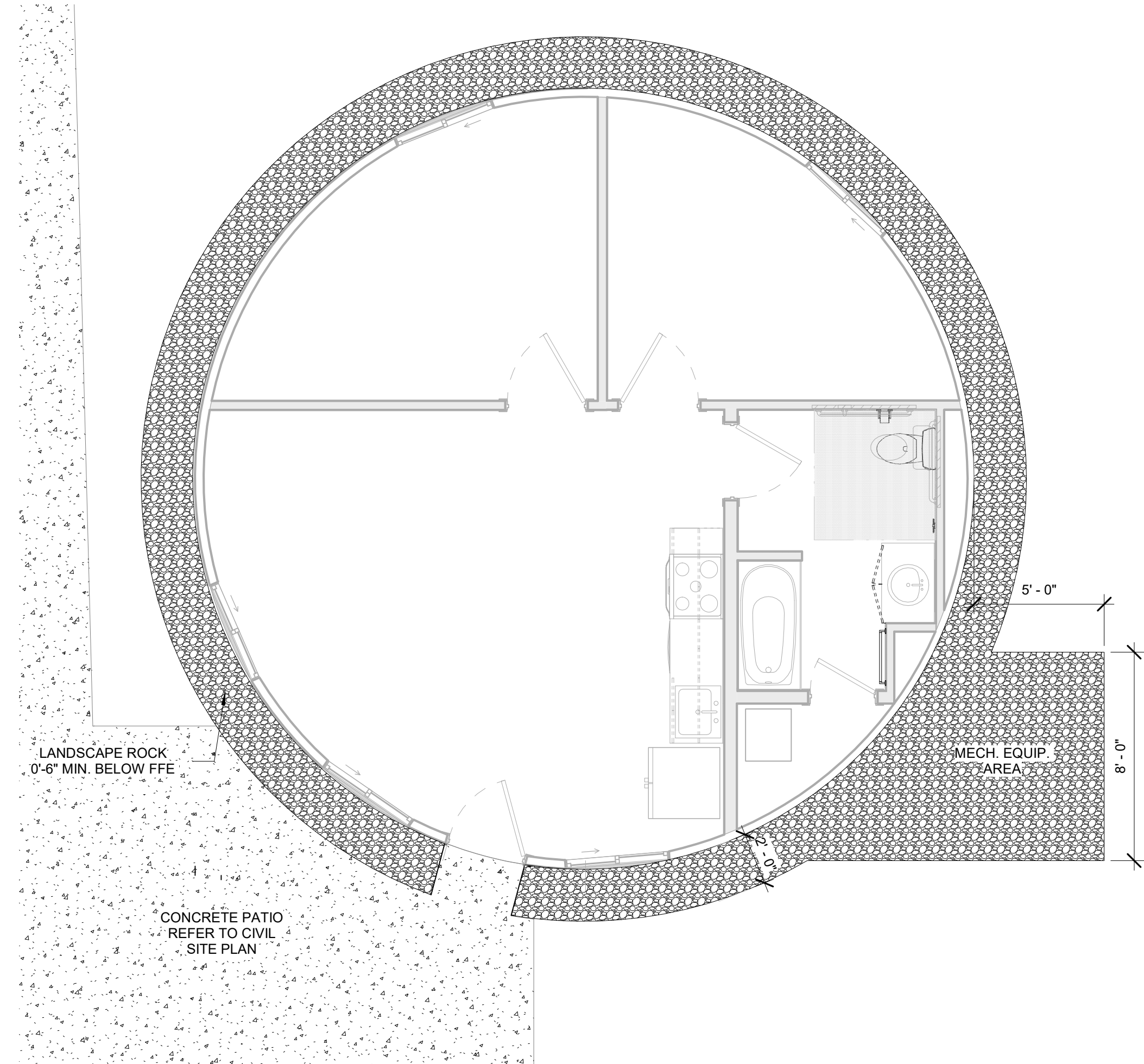
KEYNOTE LEGEND

KEYNOTES - A 101	
Character	Note Text
A-1	REFER TO STRUCTURALSHEETS FOR FRAMING LAYOUT AND SIZING.

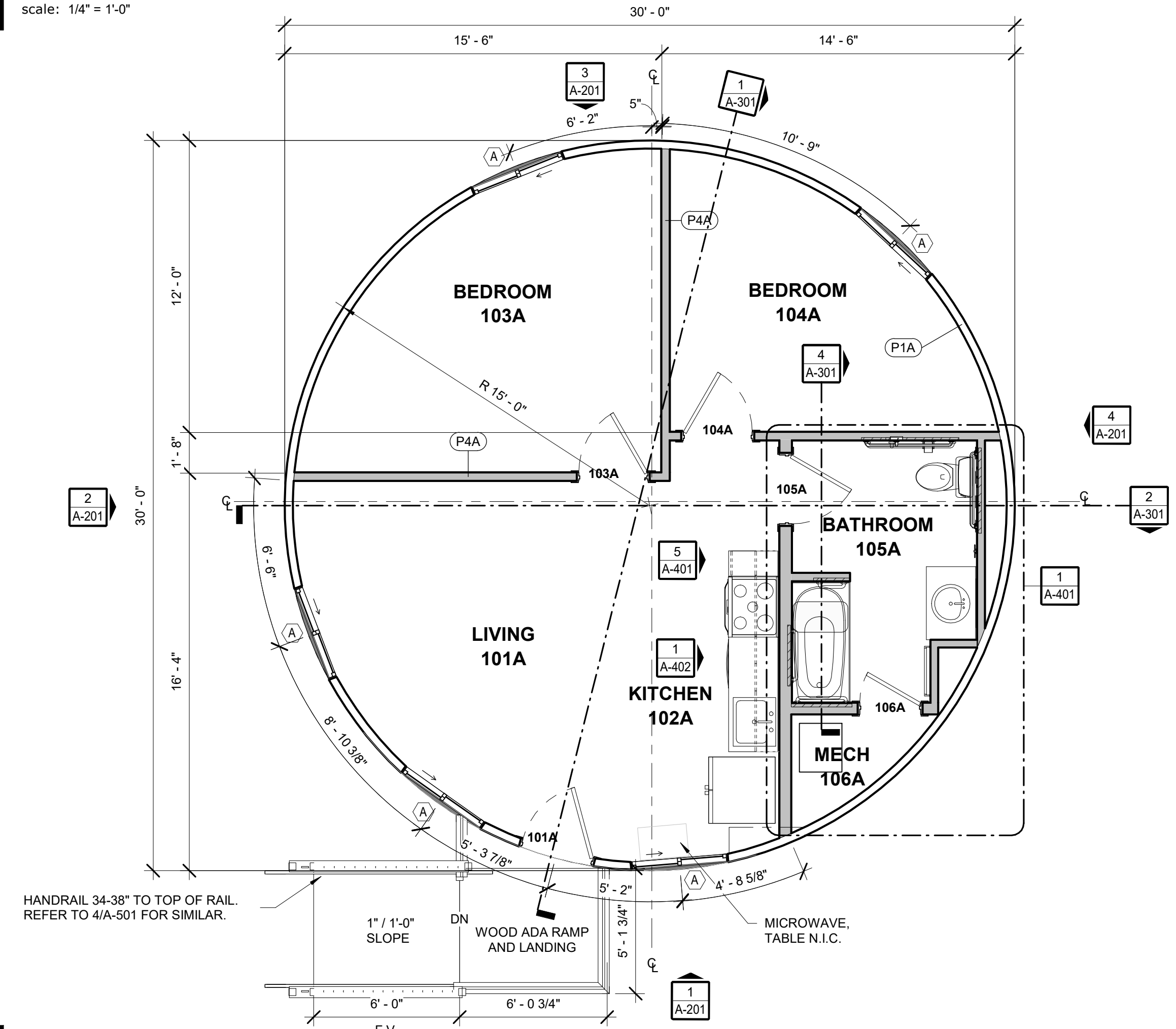
P1A	OUTSIDE FACE - VINYL LAMINATED FABRIC COVER - YURT PKG - WOOD LATTICE WALL - YURT PKG - 0' 3 1/2" WOOD STUD - YURT PKG INSIDE FACE
P4A	OUTSIDE FACE - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL - 0' 3 1/2" WOOD STUD @ 16" O.C. - EXTEND TO 9'-0" A.F.F. - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL INSIDE FACE
P4B	OUTSIDE FACE - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL - 0' 3 1/2" WOOD STUD @ 16" O.C. - EXTEND TO 9'-0" A.F.F. INSIDE FACE
P6A	OUTSIDE FACE - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL - 0' 5 1/2" WOOD STUD @ 16" O.C. - EXTEND TO 9'-0" A.F.F. - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL INSIDE FACE
P6B	OUTSIDE FACE - 0' 3/8" KNOTTY PINE BEAD BOARD PANEL - 0' 5 1/2" WOOD STUD @ 16" O.C. - EXTEND TO 9'-0" A.F.F. INSIDE FACE



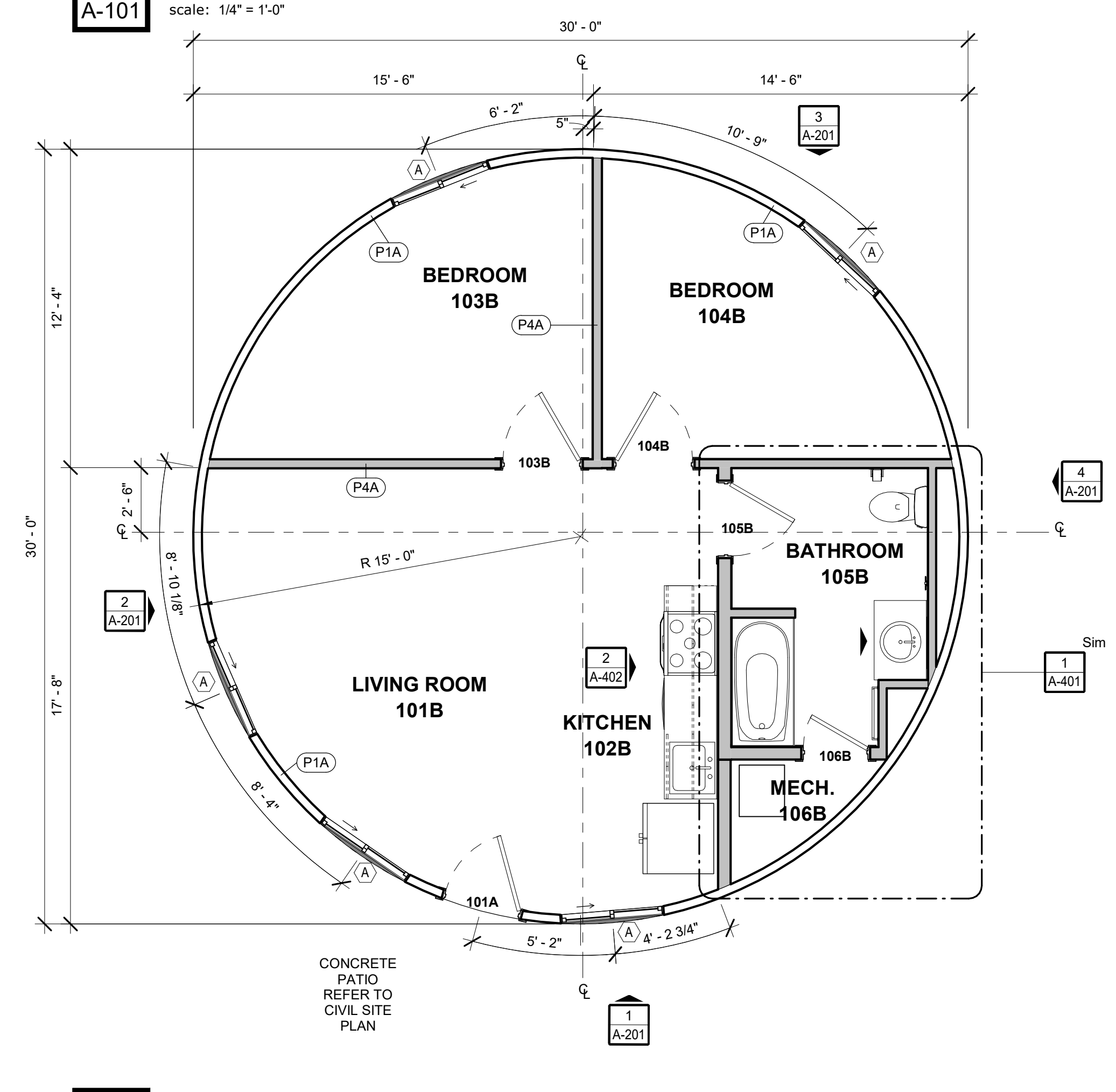
3 RAISED PLATFORM FRAMING PLAN
A-101 scale: 1/4" = 1'-0"



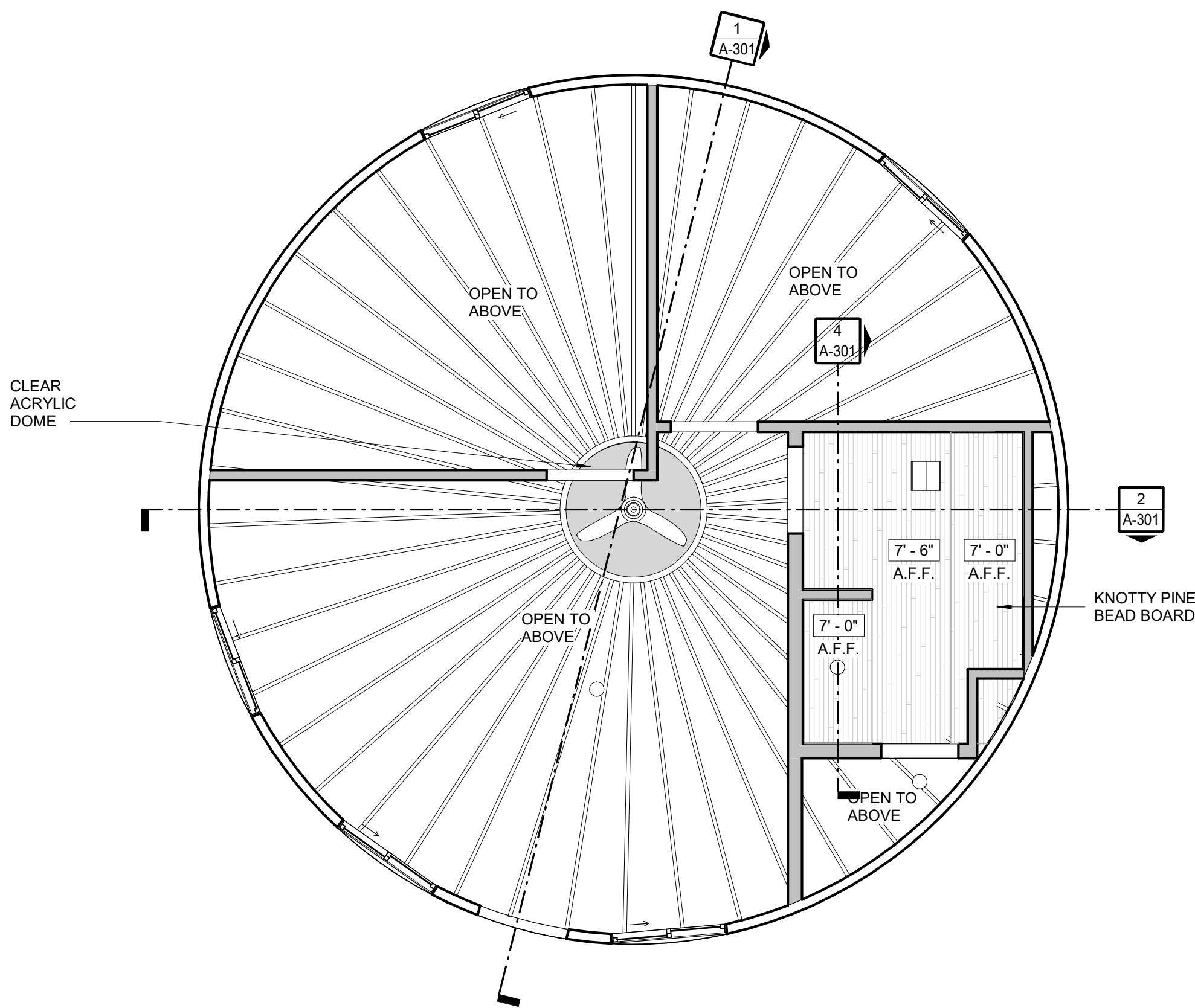
4 SLAB ON GRADE LANDSCAPE PLAN
A-101 scale: 1/4" = 1'-0"



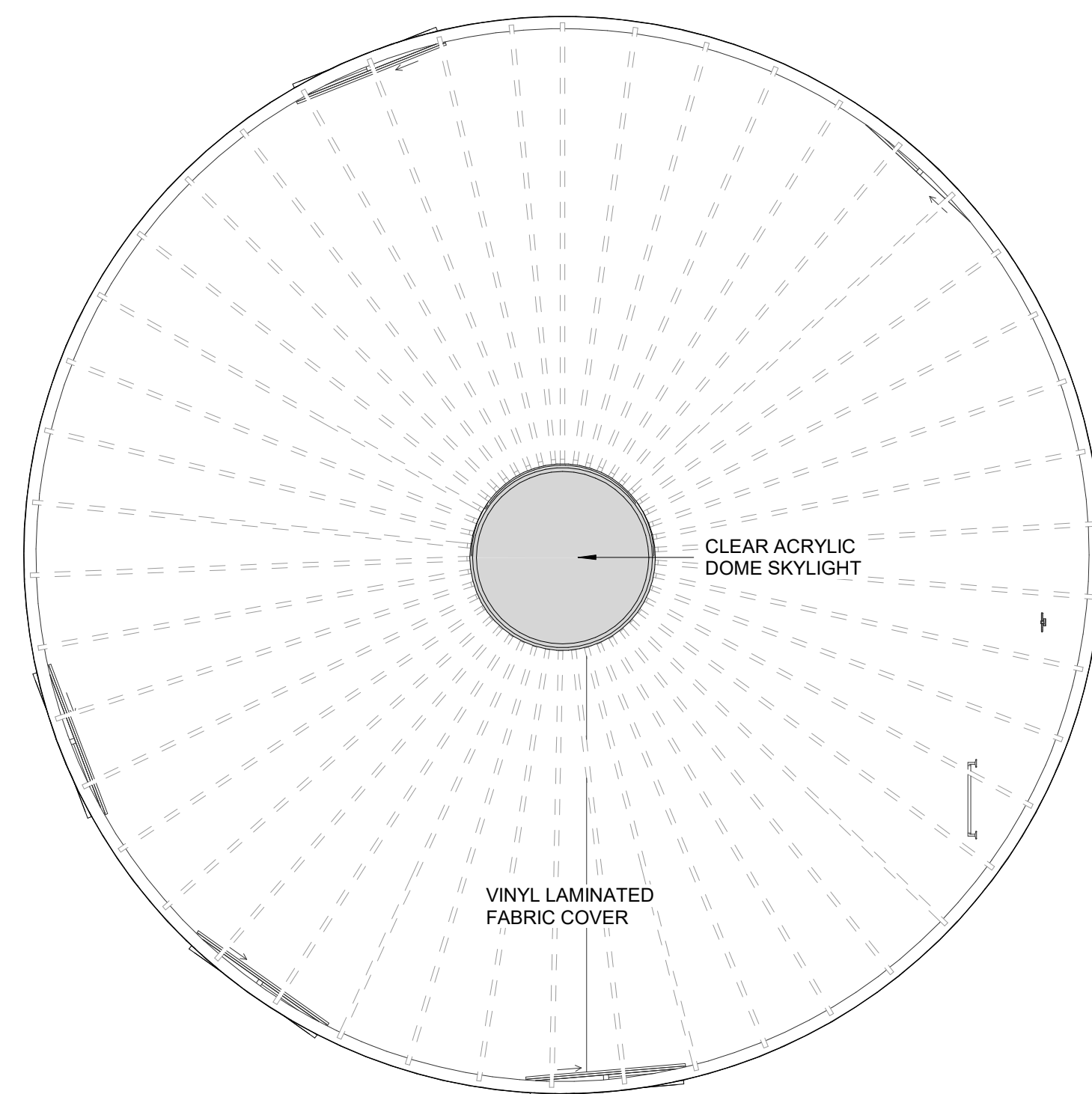
1 ADA UNIT FLOOR PLAN
A-101 scale: 1/4" = 1'-0"



2 STANDARD UNIT FLOOR PLAN
A-101 scale: 1/4" = 1'-0"



3 REFLECTED CEILING PLAN
A-102 scale: 1/4" = 1'-0"



1 ROOF
A-102 scale: 1/4" = 1'-0"

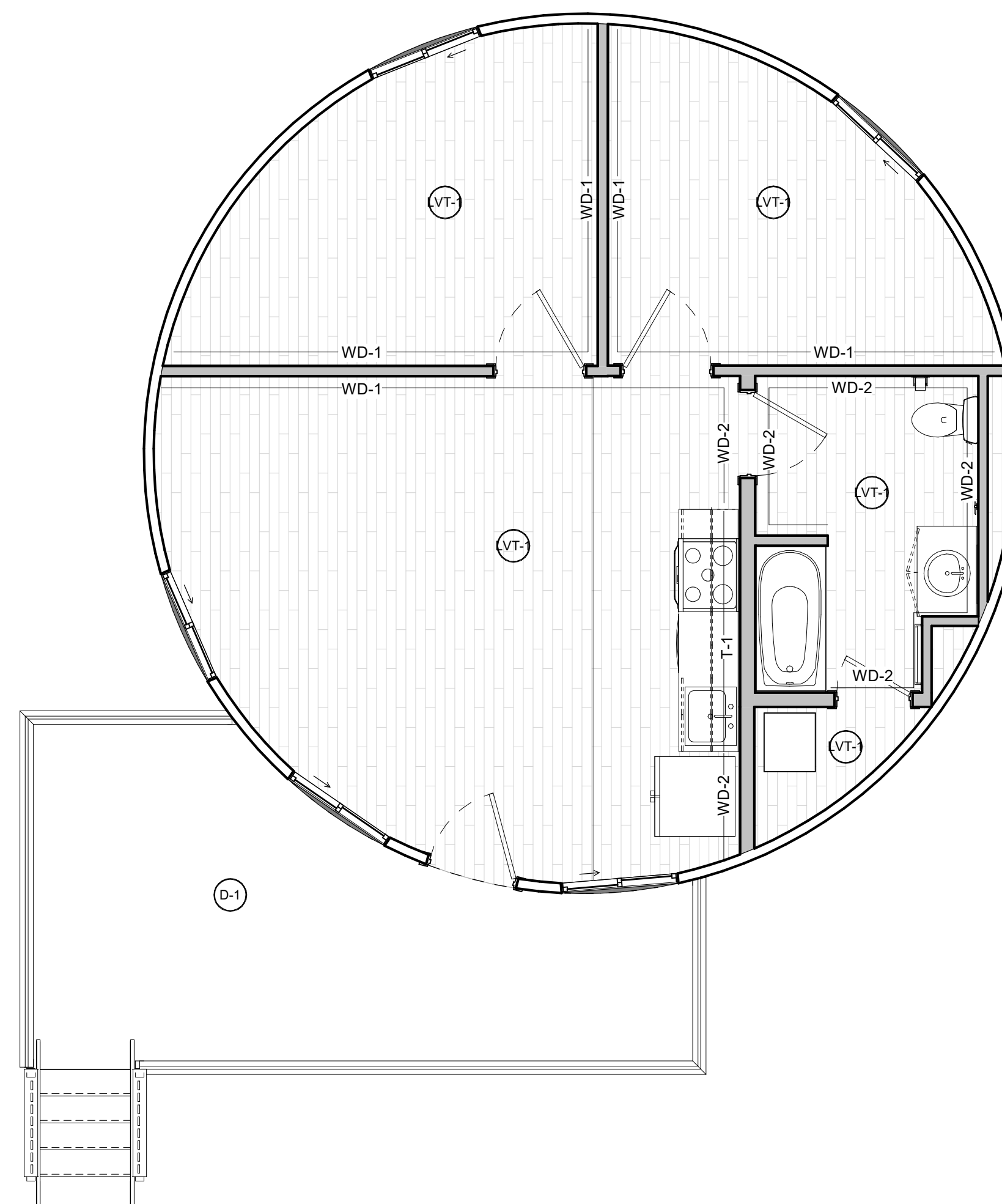
FLOOR FINISH LEGEND:

FLOORING:	MILLWORK:
LVT-1 MANUFACTURER: SHAW COLLECTION: DISTINCTION PLUS COLOR: EUCALYPTUS PATTERN: 1/3 OFFSET	WV-1 SOLID KNOTTY PINE SHAPE: SQUARE RAISED FINISH: CLEAR INSTALLATION: ALL MILLWORK UNLESS NOTED OTHERWISE.
WALL COVERINGS:	COUNTERTOPS:
WD-1 KNOTTY PINE BEAD BOARD PANEL FINISH: CLEAR OIL BASED POLYURETHANE INSTALLATION: ALL WALL SURFACES UNLESS NOTED OTHERWISE.	SS-1 LOCATION: ALL COUNTERS U.N.O. THICKNESS: 3CM EDGE PROFILE: PENCIL MANUFACTURER: CORIAN TYPE: QUARTZ COLOR: SADDLE BROWN
WD-2 MOISTURE RESISTANT BEAD BOARD PANEL FINISH: PAINTED WHITE, VERIFY WITH ARCH. INSTALLATION: BATHROOM WALLS AND CEILING UNLESS NOTED OTHERWISE.	PORCELAIN TILE:
MOLDING	T-1 MANUFACTURER: DAL TILE COLLECTION: ESTA VILLA SIZE: 2"X4" PATTERN: MOSAIC COLOR: GARDEN WHITE EV97
B-1 TYPE: BASE & CROWN KNOTTY PINE PROFILE: 356 FINISH: CLEAR OIL BASED POLYURETHANE INSTALLATION: ALL AREAS UNLESS NOTED OTHERWISE.	GROUT:
B-2 TYPE: BASE & CROWN MOISTURE RESISTANT MDF PROFILE: 356 FINISH: PAINTED WHITE, VERIFY WITH ARCH. INSTALLATION: BATHROOM	ALL TILE TO RECEIVE - UNSANDED GROUT VERIFY COLOR WITH ARCH.
WOOD DOORS:	DECKING FINISH:
STN-1 SOLID RADIATA PINE STYLE: 6 PANEL FINISH: CLEAR OIL BASED POLYURETHANE	D-1 TYPE: STAINED PRESSURE TREATED PINE COLOR: MATCH EXISTING, VERIFY WITH ARCH LOCATION: ALL EXTERIOR EXPOSED DECKING AND RAILING SURFACES U.N.O.

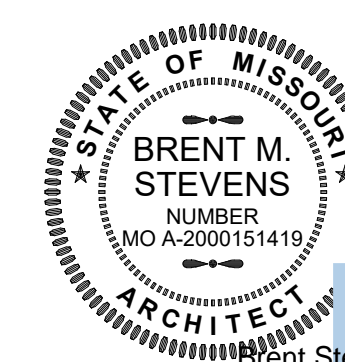
- NOTES:**
- ALL EXPOSED SURFACES TO RECEIVE FINISH.
 - TAKE MEASURES TO PROTECT SENSITIVE FIRE SPRINKLERS, HVAC, ELECTRICAL AND ANY OTHER SENSITIVE EQUIPMENT WITHIN THE SPACE.
 - KNOTTY PINE BEAD BOARD TO RECEIVE A CLEAR COAT FINISH.
 - KNOTTY PINE BEAD BOARD IN RESTROOMS TO RECEIVE OIL BASED CLEAR COAT FINISH.

GENERAL NOTES - FINISHES

- ALL FINISHES COLORS SELECTED BY OWNER. SUBMIT SAMPLES TO OWNER'S FOR APPROVAL.
- ALL PAINT SYSTEMS TO BE WASHABLE TYPE. SUBMIT PAINT SAMPLES AND PRODUCT SPECS FOR APPROVAL. TWO FINISH COATS PAINT SYSTEM EQUAL TO SHERWIN WILLIAM PRO MAR 200 OVER SHERWIN WILLIAM GYP. BD. PRIMER. SUBMIT THREE DIFFERENT 12 X 24 KNOCK DOWN TEXTURE SAMPLES FOR OWNER'S SELECTION. CEILING AND WALL TEXTURES WILL NOT BE THE SAME.
- INTERIOR FLOOR FINISH AND COVERING MATERIAL SHALL BE CLASS I OR CLASS II AND COMPLY WITH DOCFF-1 "PILL TEST" (CPSC 16 CFT, PART 1630). SUBMIT MATERIAL SAMPLES AND MANUFACTURER'S TESTING REPORTS FOR APPROVAL.
- CORRIDOR, ROOMS AND ENCLOSED SPACES INTERIOR WALL AND CEILING FINISHES TO CLASS C WITH NO GREATER FLAME SPREAD OF 76-200 AND SMOKE DEVELOPED 0-450.
- ALL WINDOW TREATMENT AND AWNING MATERIAL TO BE FIRE RETARDANT AND TESTED IN ACCORDANCE WITH NFPA 286.
- SLEEPING UNITS BATH ROOM LAVATORY TO BE CULTURED MARBLE COUNTER TOP AND INTEGRAL SINK WITH OVERFLOW AND RECESS BOWL EDGE. PROVIDE BACKSPLASH WHERE COUNTER ABUTS WALLS.
- PAINTER TO FURNISH AND INSTALL BACKER ROD AND CAULKING AROUND PERIMETER OF EXTERIOR WINDOWS AND DOORS. CAULKING COLOR TO MATCH WINDOW/DOOR FINISH. CAULKING EQUAL TO NP-1, OTHERS TO BEE TREMCO DYMNIC FC POLYURETHANE HYBRID.



2 INTERIOR FINISH PLAN
A-102 scale: 1/4" = 1'-0"



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DEPARTMENT OF
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MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X221601 A-102
DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

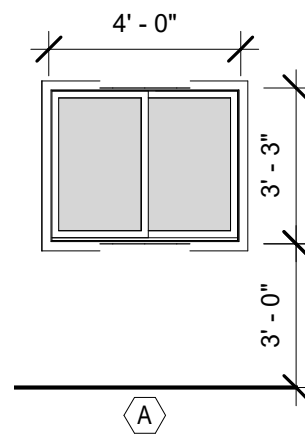
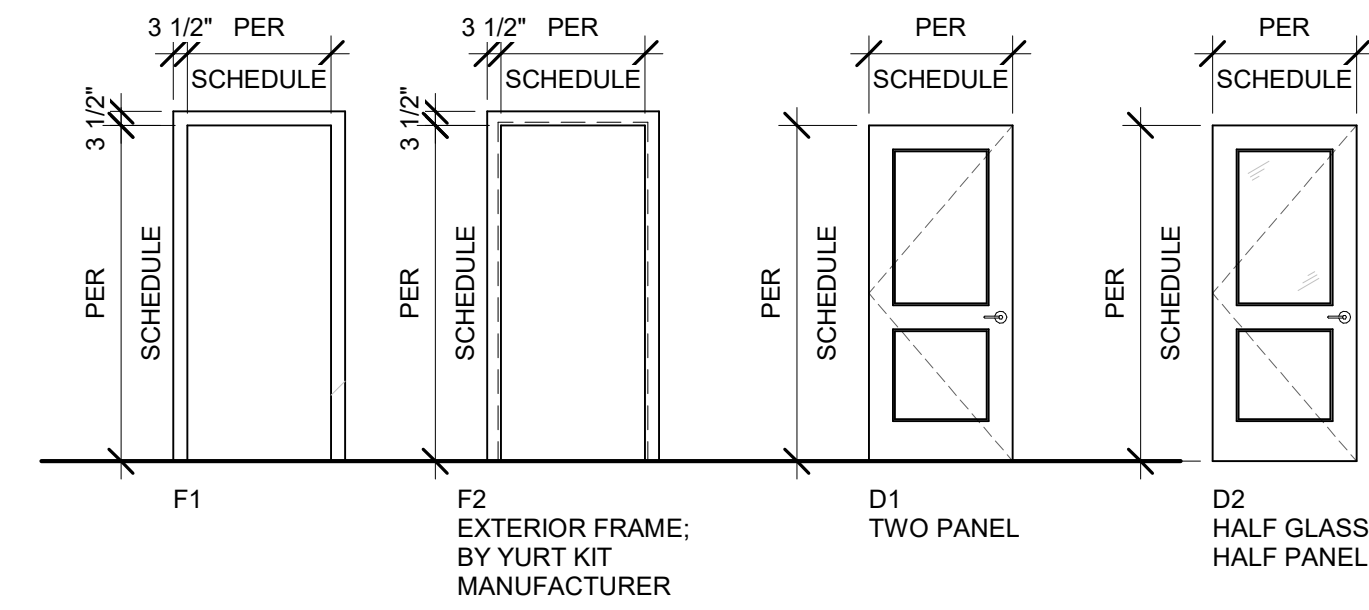
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OVERALL PLANS

SHEET NUMBER:

A-102

SHEET 19 OF 32
1/17/2023 9:04:59 AM

DOOR + FRAME SCHEDULE							
Mark	Door Information			Frame Information			
	Type	Door Material	Door Finish	Door Type	Frame Material	Finish	Frame Type
101A	3'-0" x 6'-8"	WD	STN	D2	WD	STN	F2
101B	42" x 42"						
103A	2'-10" x 6'-8"	WD	STN	D1	WD	STN	F1
103B	3'-0" x 6'-8"	WD	STN	D1	WD	STN	F1
104A	2'-10" x 6'-8"	WD	STN	D1	WD	STN	F1
104B	3'-0" x 6'-8"	WD	STN	D1	WD	STN	F1
105A	2'-10" x 6'-8"	WD	STN	D1	WD	STN	F1
105B	2'-10" x 6'-8"	WD	STN	D1	WD	STN	F1
106A	2'-6" x 6'-8"	WD	STN	D1	WD	STN	F1
106B	2'-6" x 6'-8"	WD	STN	D1	WD	STN	F1



DOUBLE-PANE SLIDING WINDOW

GENERAL NOTES - OPENINGS

ABBREVIATIONS:

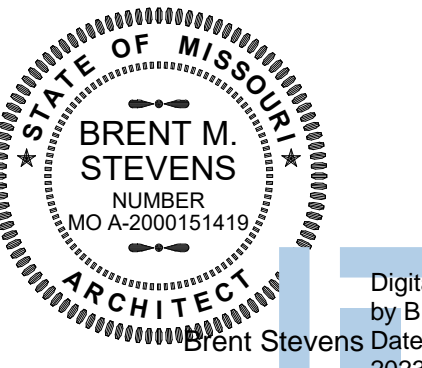
- (ALUM) ALUMINUM FRAME
- (HM) HOLLOW METAL
- (PF) PRE-FINISHED
- (PNT) PAINT
- (STN) STAIN
- (WD) WOOD
- (SC) SOLID CORE

1. T = TEMPERED PANES OF GLAZING. ALL PANES WITHIN 18" OF GROUND PLAN, FINISH FLOOR, OR SIDEWALKS SHALL BE TEMPERED. ALL PANES WITHIN AN 18" SPHERE OF A DOOR SHALL ALSO BE TEMPERED.
2. FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION OF FRAMES.

NOTE: YURT PACKAGE BASIS OF DESIGN TO BE PACIFIC YURTS INC. 30' YURT. YURT PACKAGE SHALL INCLUDE STANDARD AND OPTIONAL FEATURES LISTED BELOW.

- LATTICE WALL
- RAFTERS
- CENTER RING
- EXTERIOR ENTRY DOOR
- TINTED ACRYLIC DOME
- TENSION CABLE
- SIDE COVER
- VINYL DOUBLE PANE WINDOWS
- TOP COVER
- RAIN DIVERTER
- HARDWARE
- SNOW AND WIND KIT
- PERIMETER BLOCKING
- 2X6 RAFTER/RING/HARDWARE UPGRADE
- FAN SUPPORT
- INSTRUCTIONS

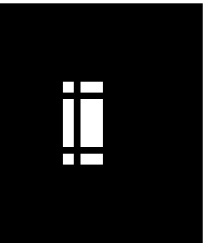
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

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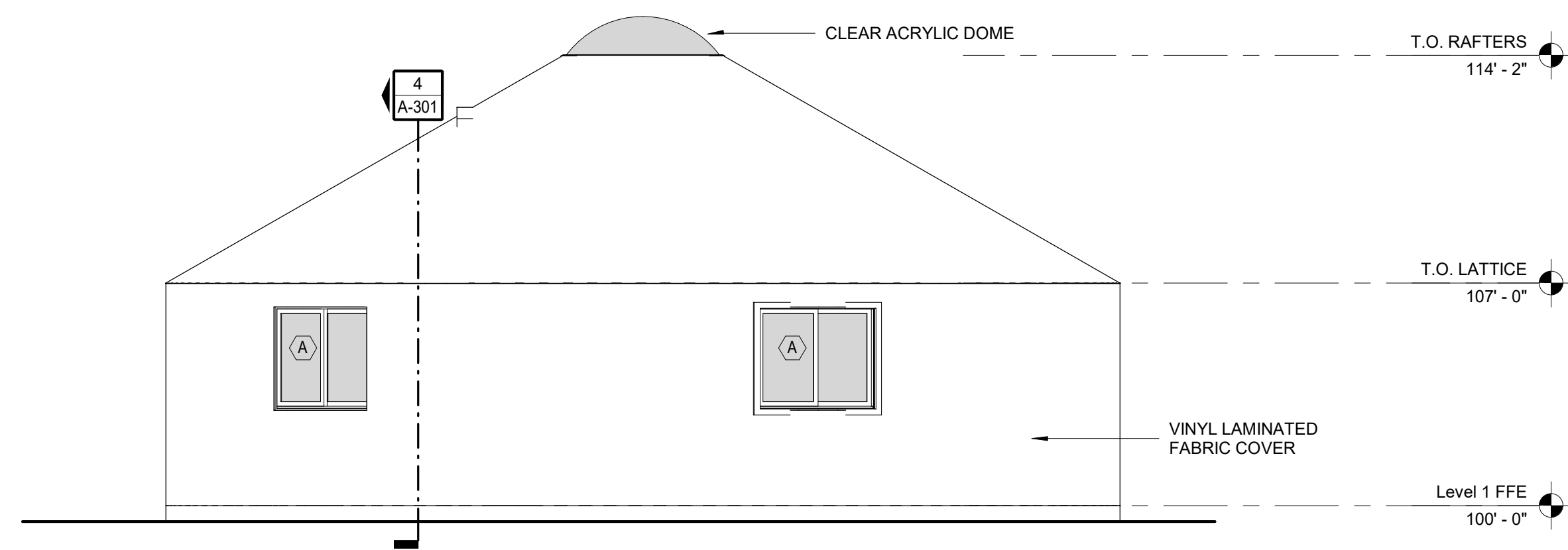
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CHECKED BY: HDG
DESIGNED BY: HDG

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ELEVATIONS

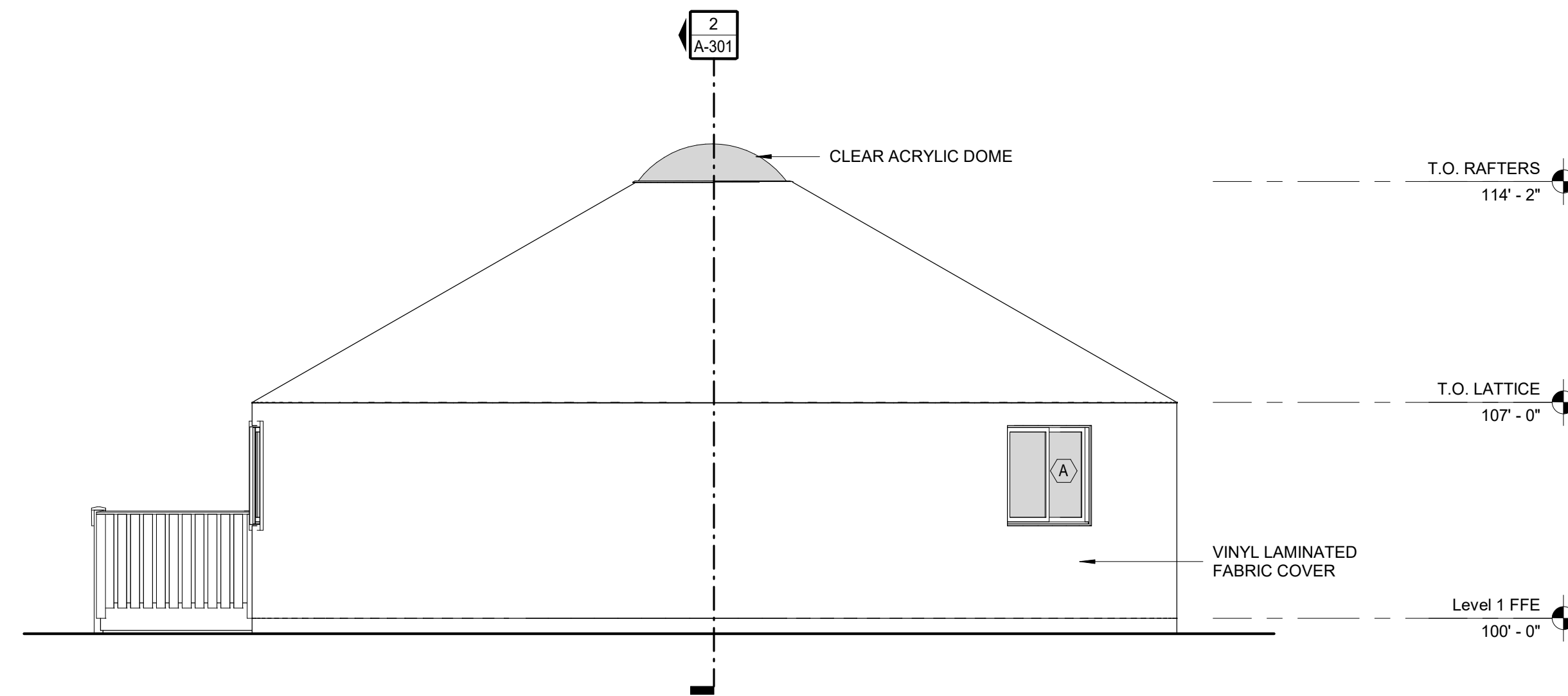
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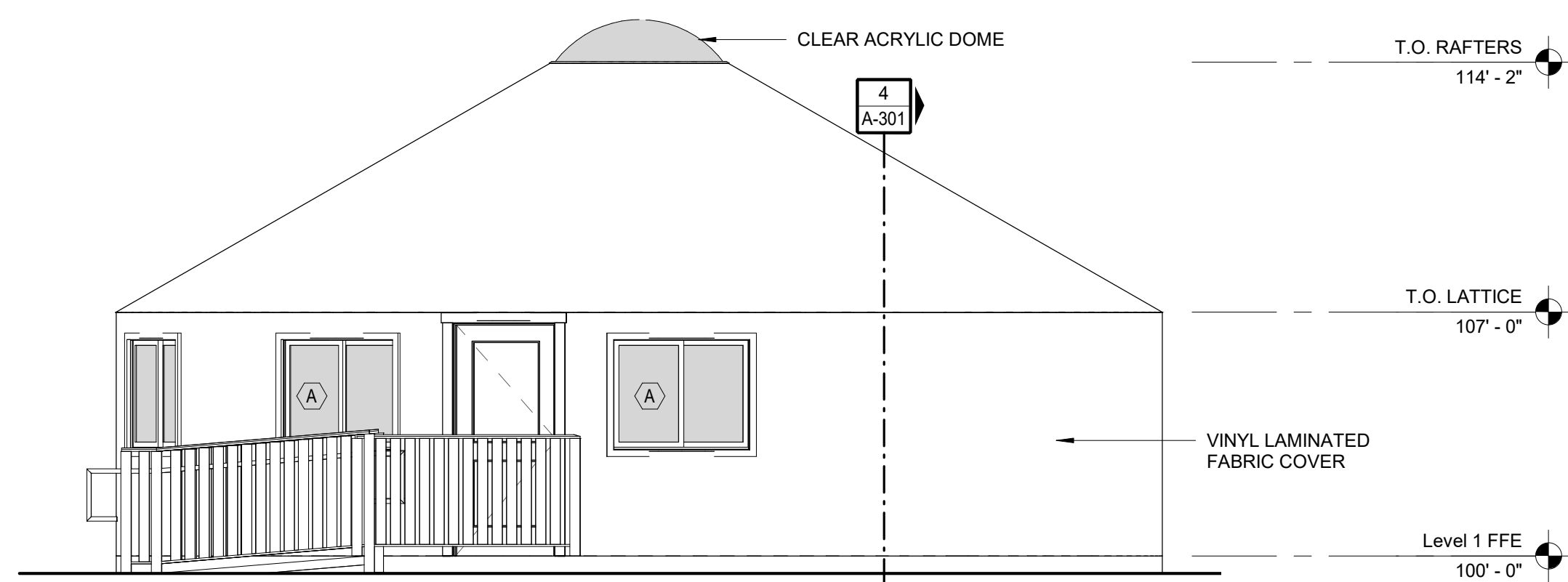
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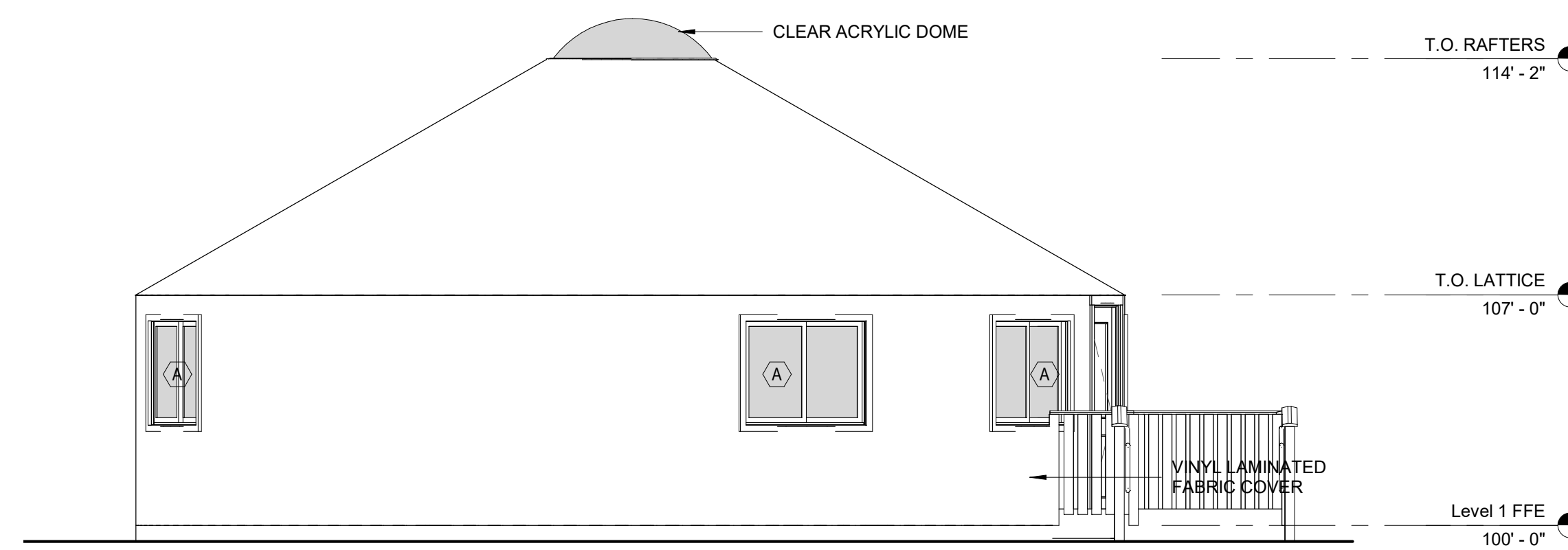
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A-201 scale: 1/4" = 1'-0"



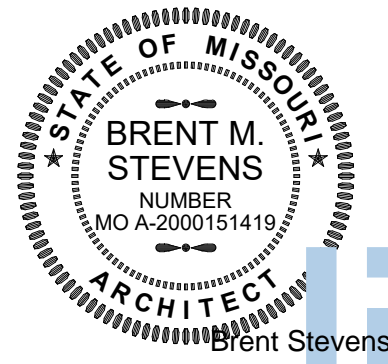
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A-201 scale: 1/4" = 1'-0"



1 FRONT ELEVATION
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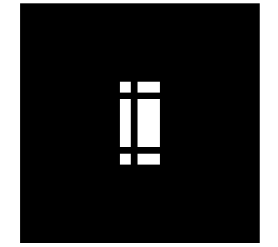


2 SIDE ELEVATION
A-201 scale: 1/4" = 1'-0"



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ASSET # 7815603018

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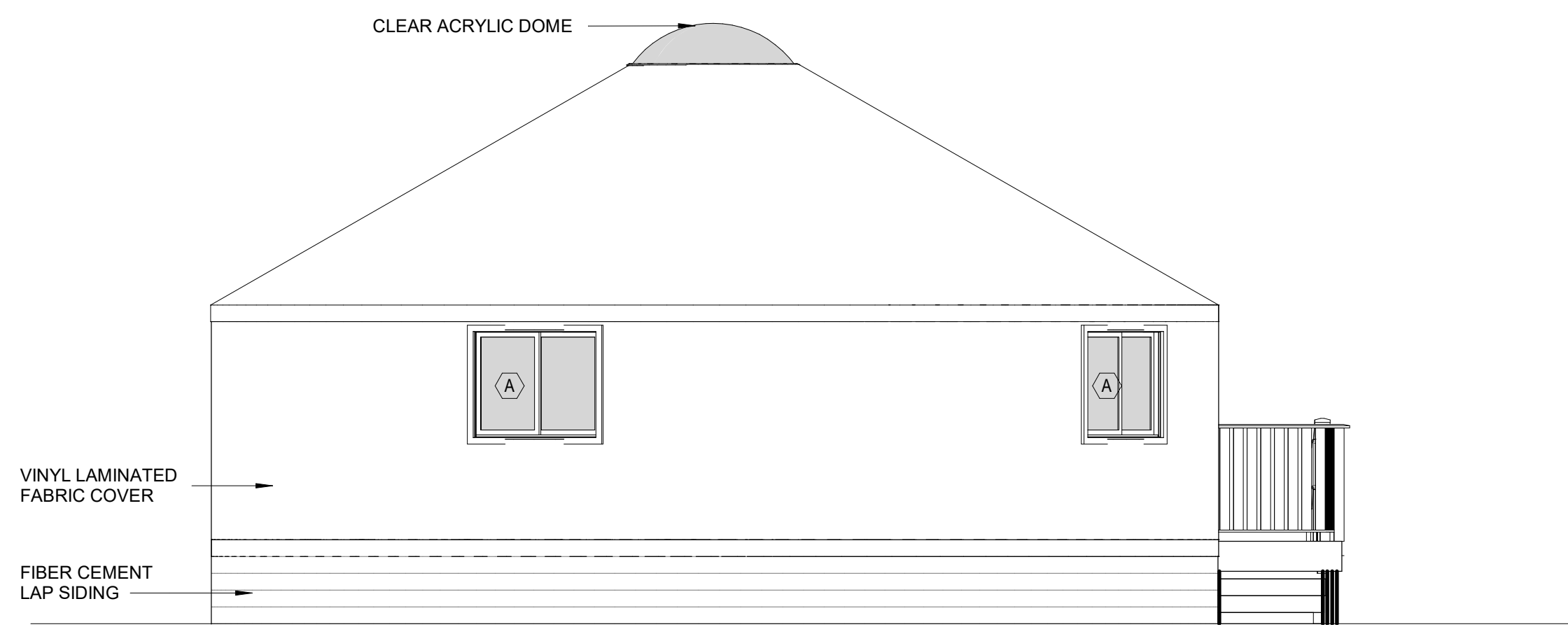
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**RAISED
PLATFORM
ELEVATIONS**

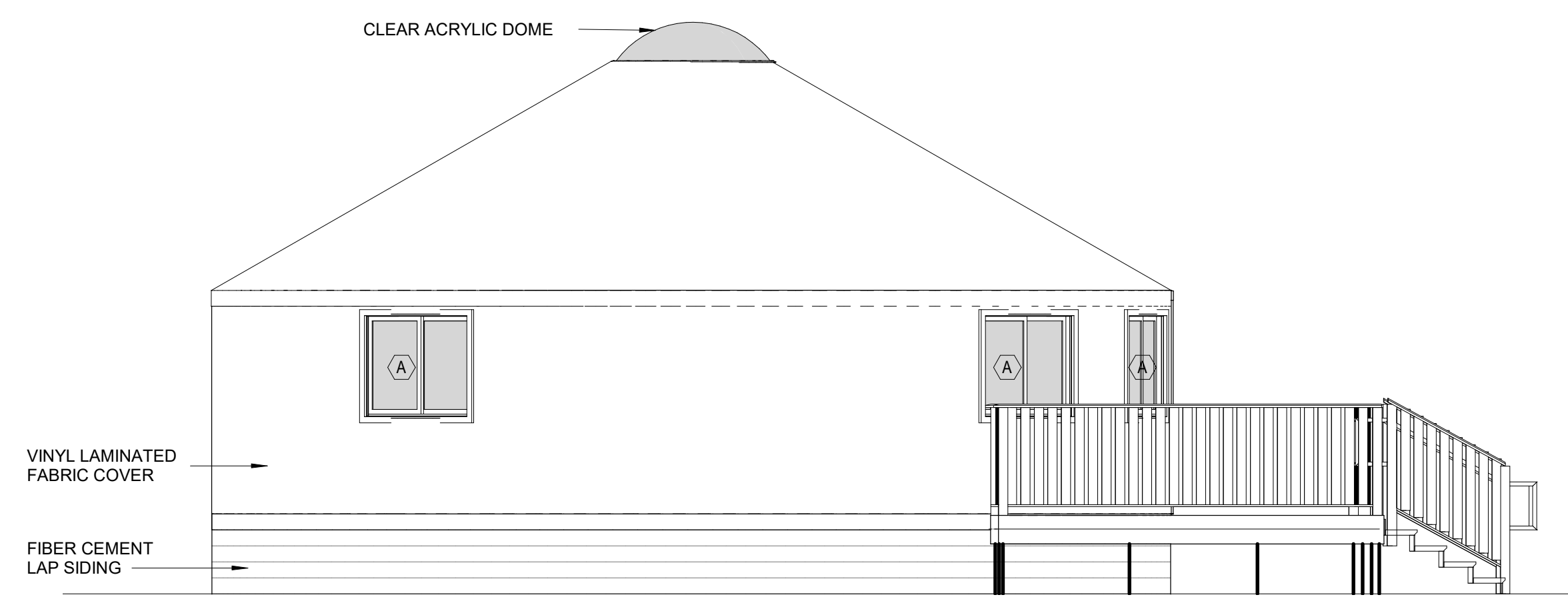
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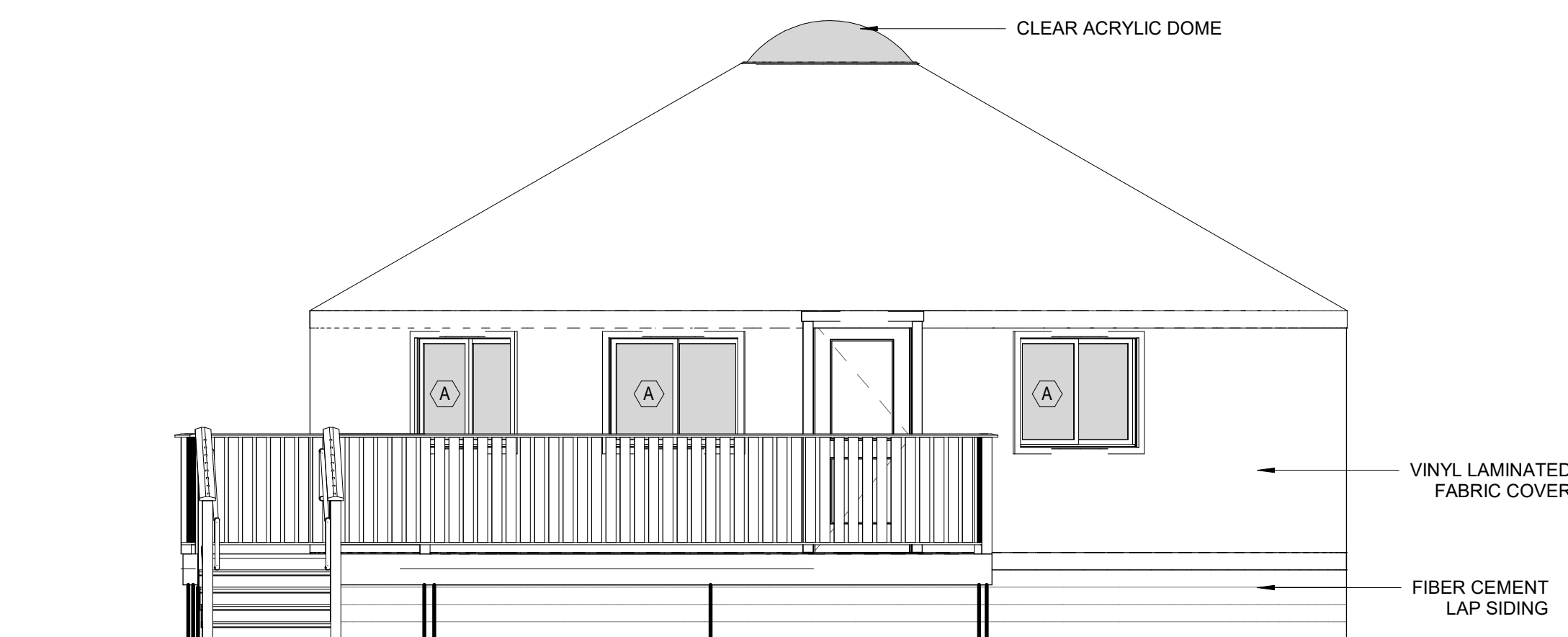
SHEET 21 OF 32
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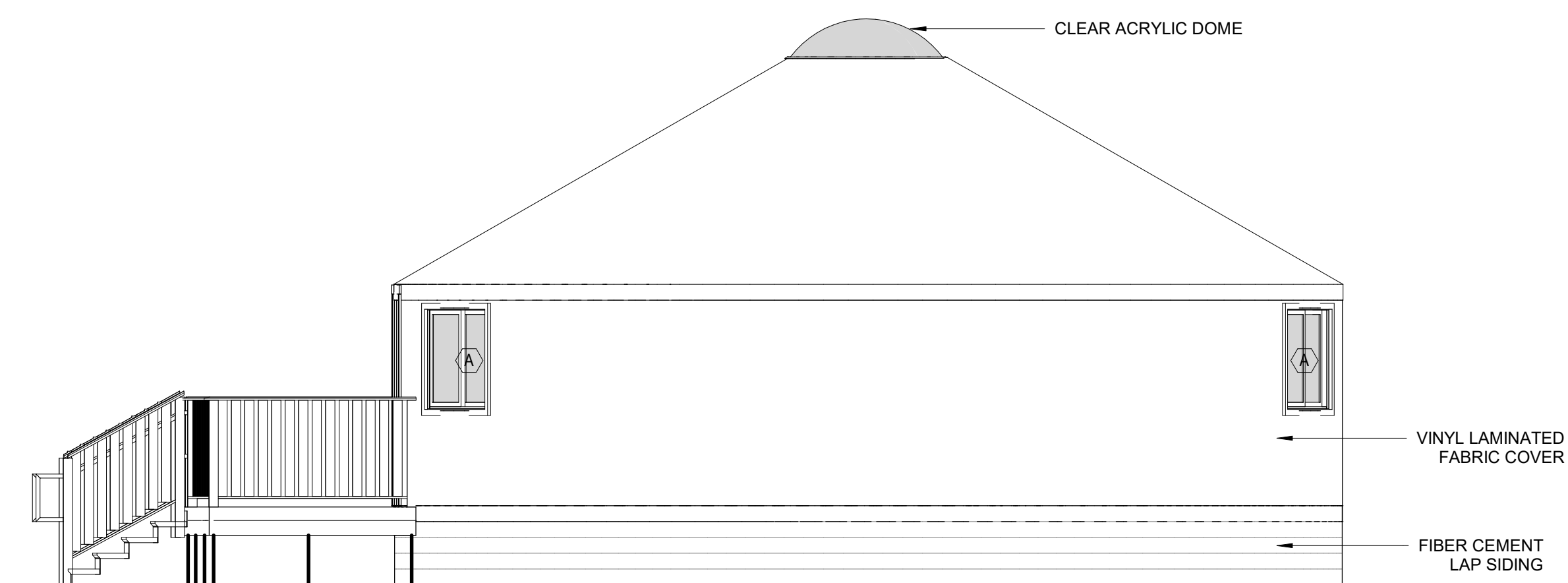
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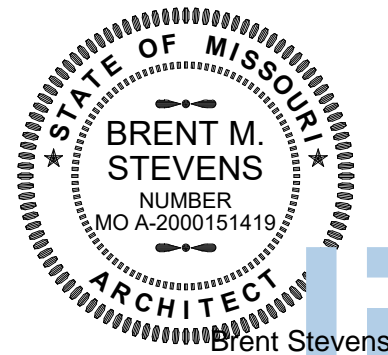
4 SIDE ELEVATION
A-202 scale: 1/4" = 1'-0"



1 FRONT ELEVATION
A-202 scale: 1/4" = 1'-0"

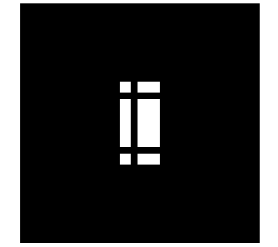


2 SIDE ELEVATION
A-202 scale: 1/4" = 1'-0"



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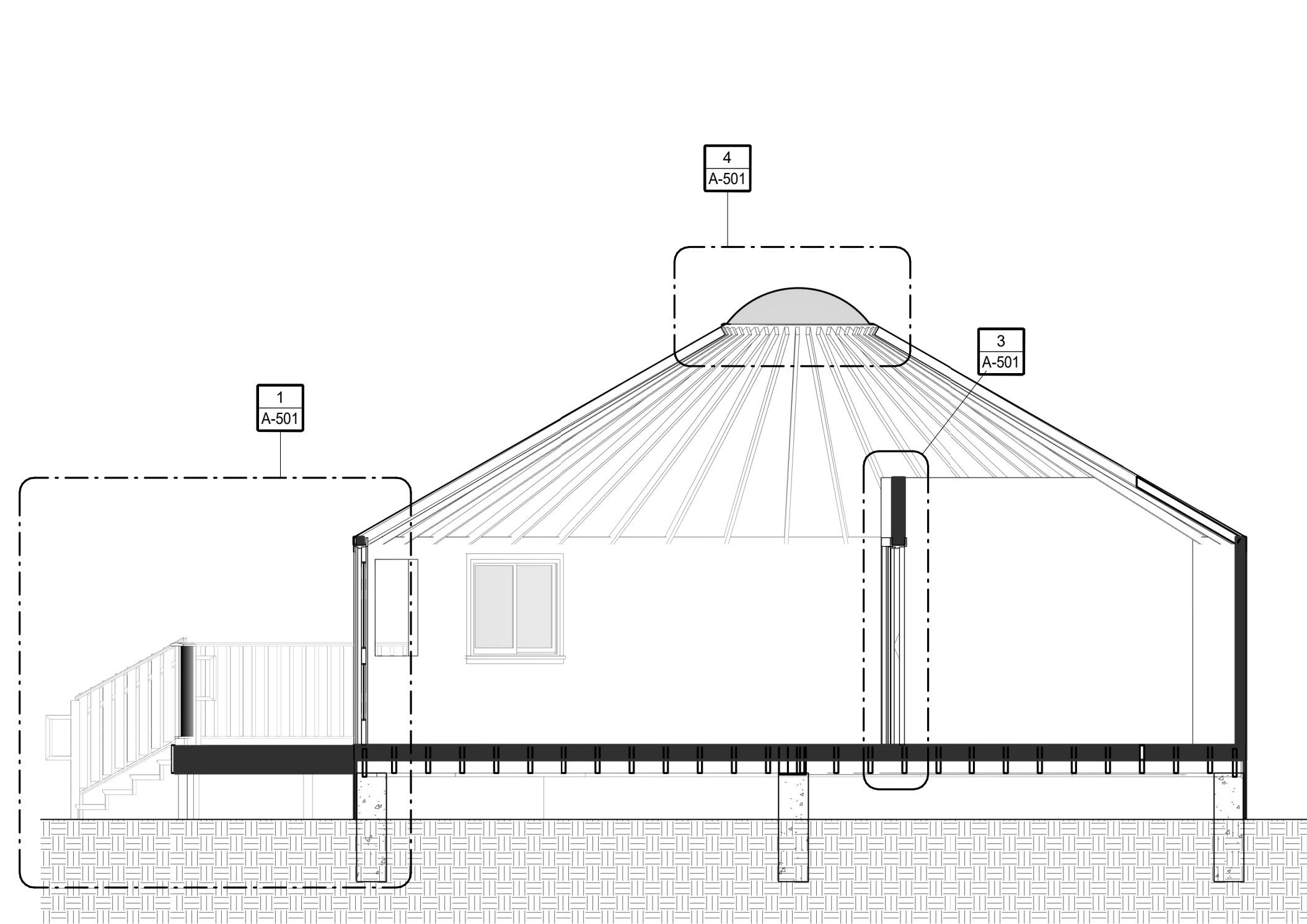
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SHEET TITLE:
OVERALL
SECTIONS

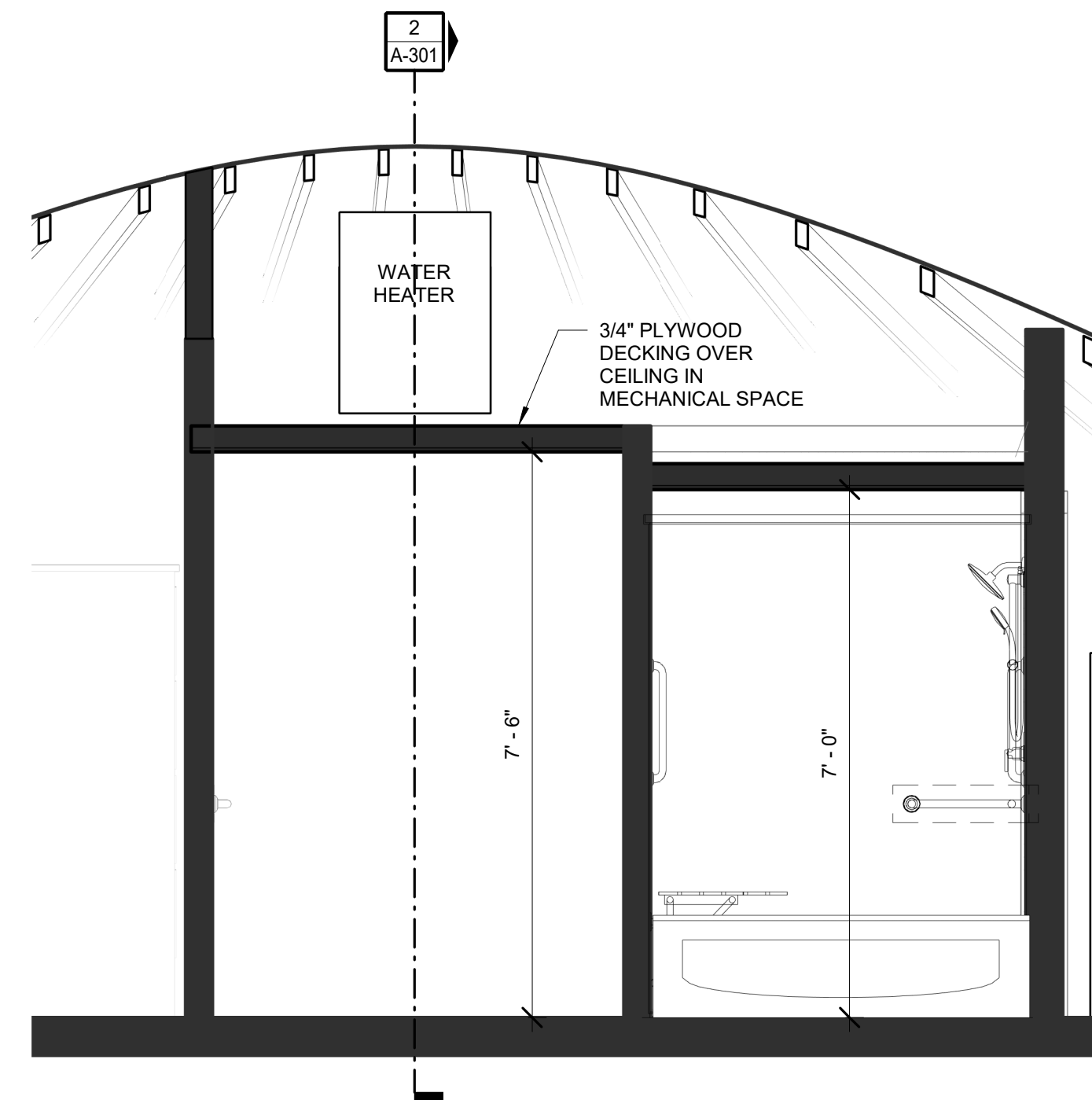
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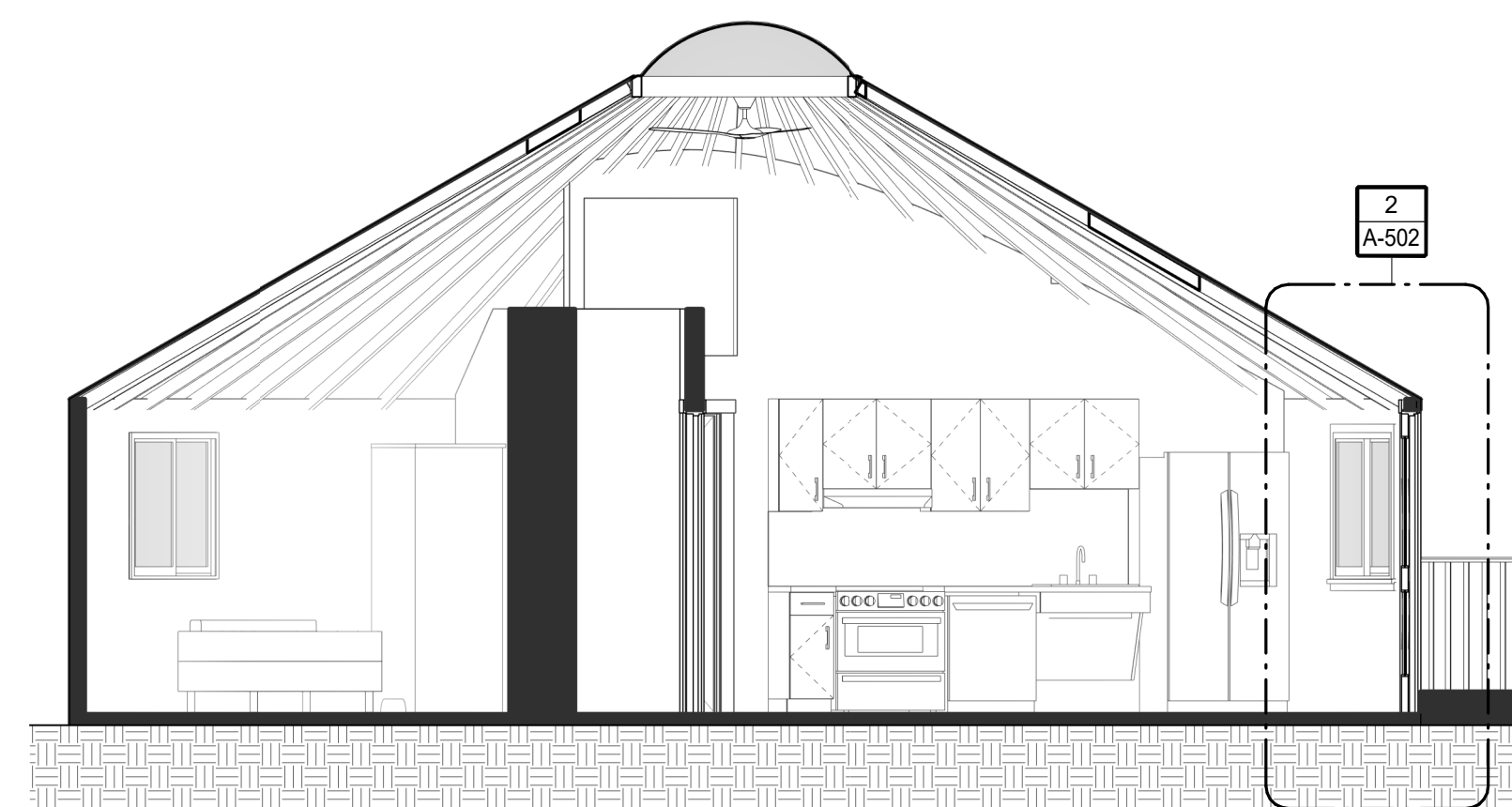
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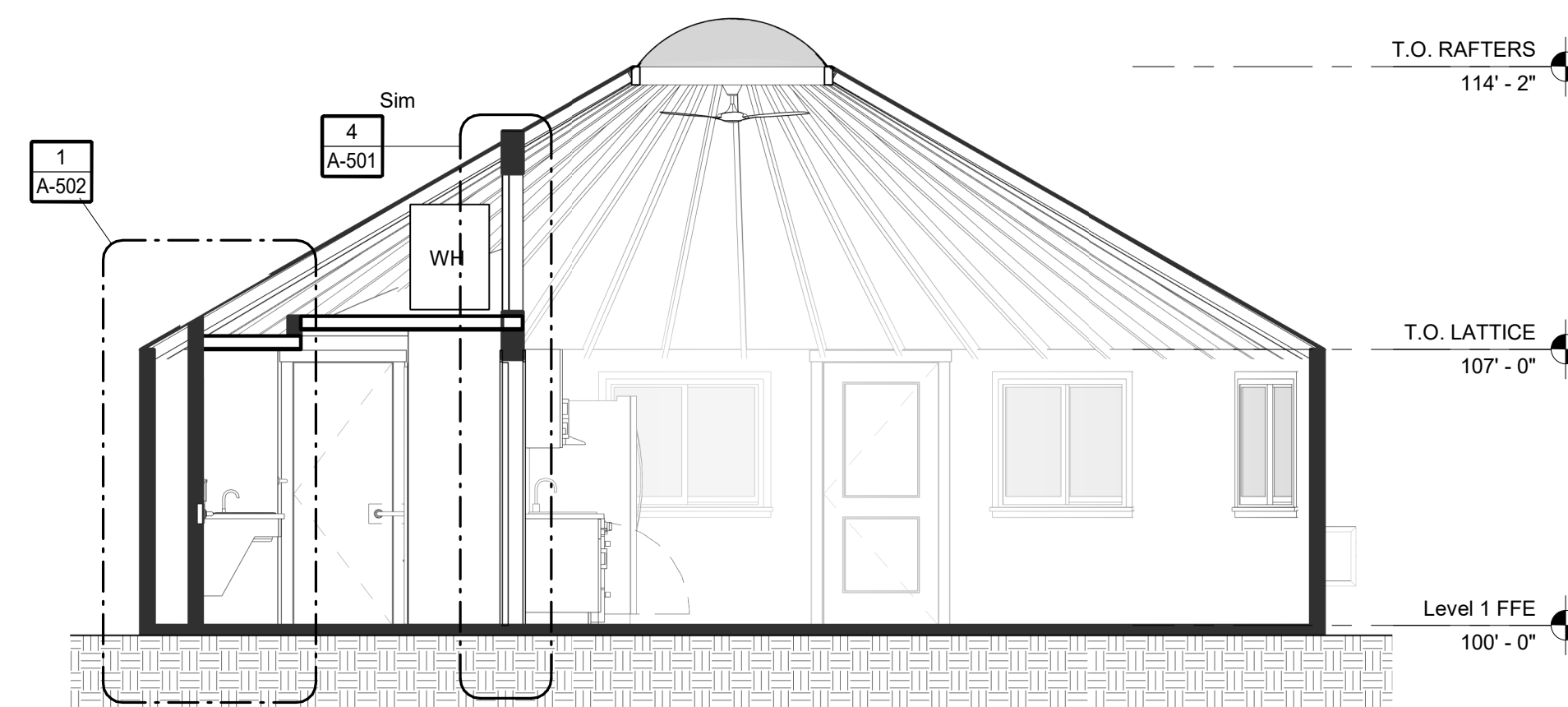
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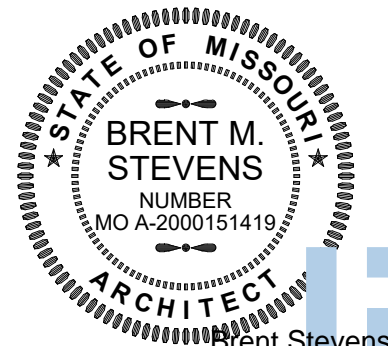
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1 OVERALL SECTION
A-301 scale: 1/4" = 1'-0"

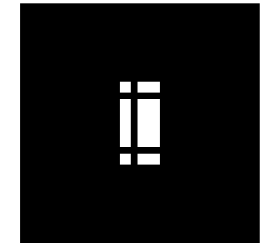


2 OVERALL SECTION
A-301 scale: 1/4" = 1'-0"



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ASSET # 7815603018

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ISSUE DATE: JANUARY 17, 2023

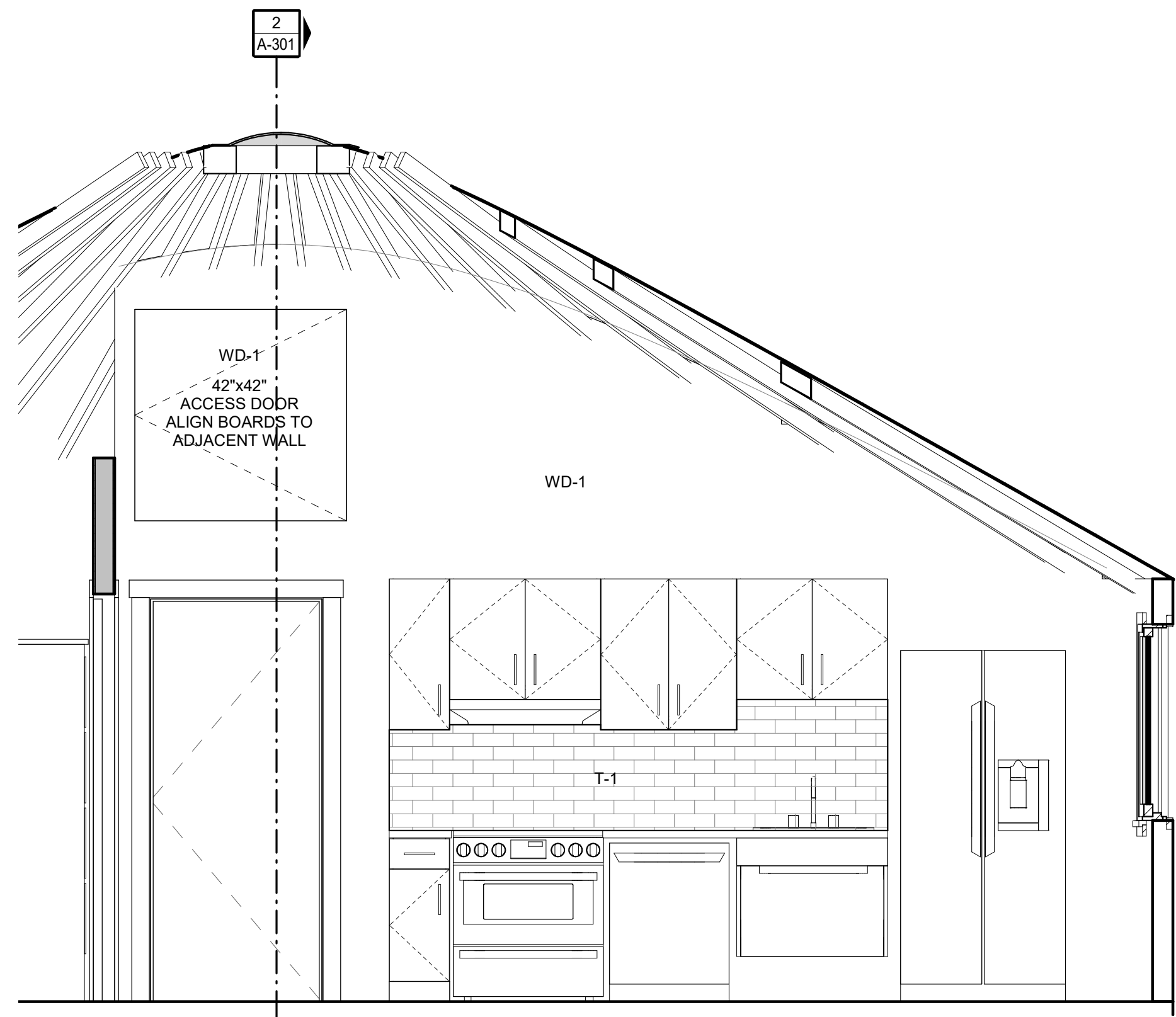
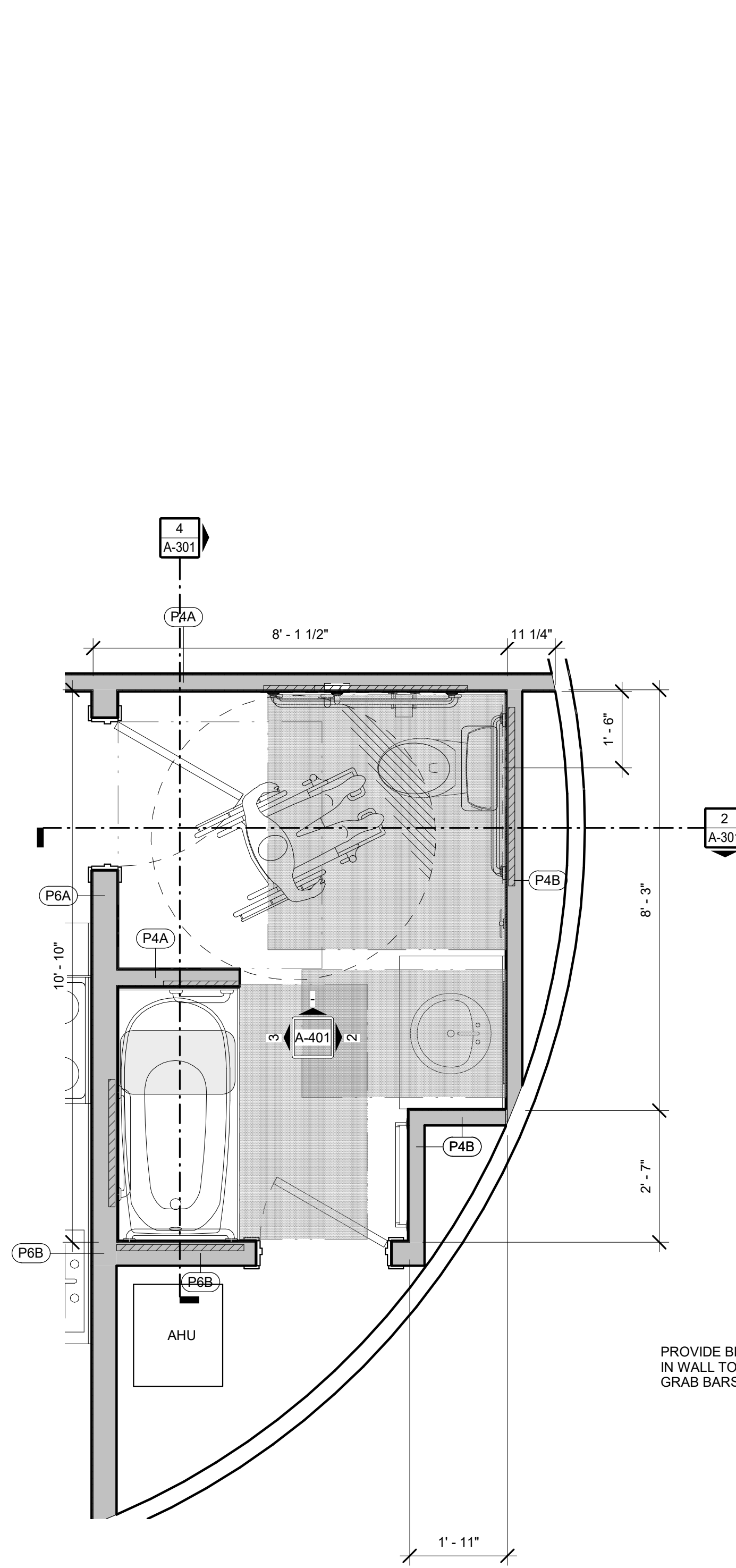
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**ENLARGED
VIEWS**

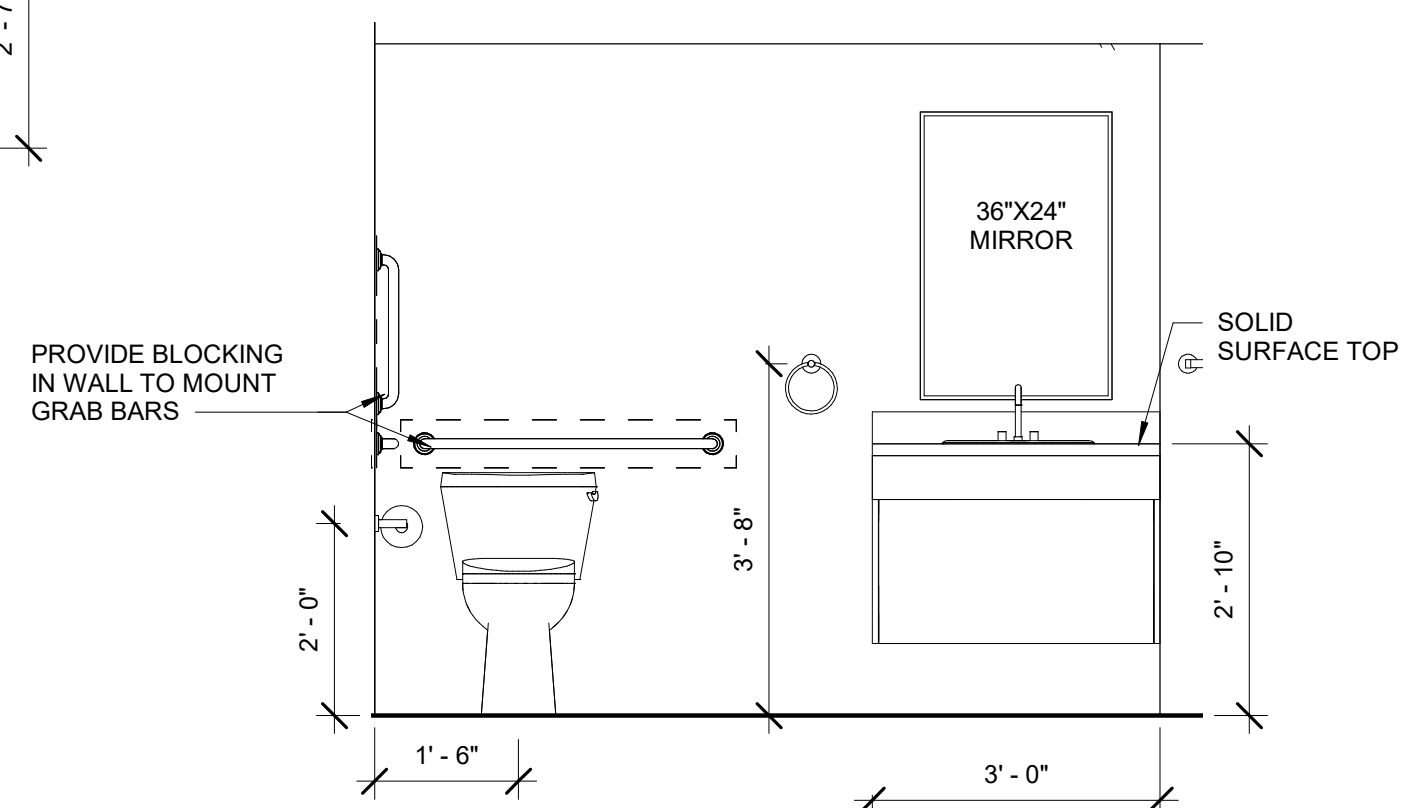
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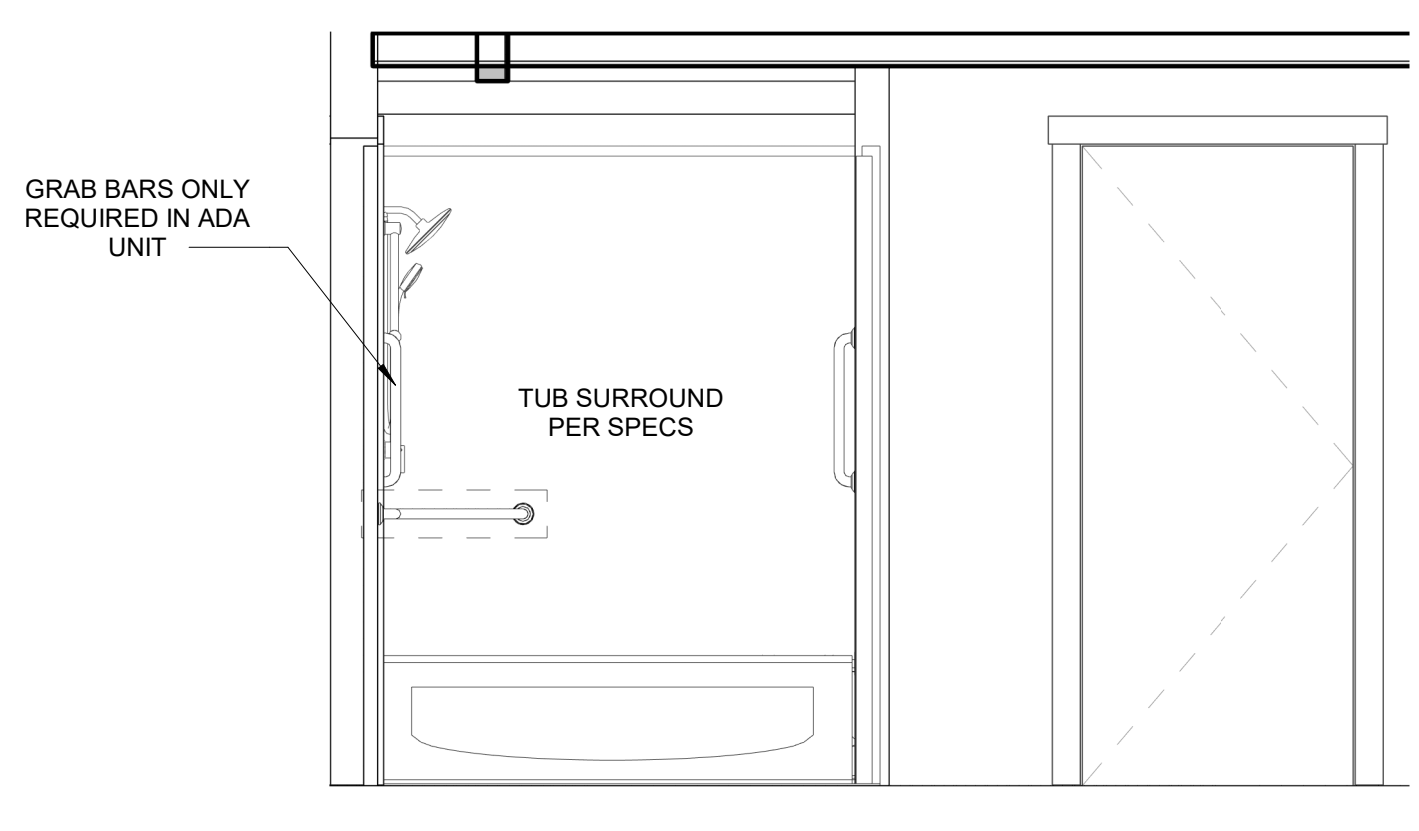
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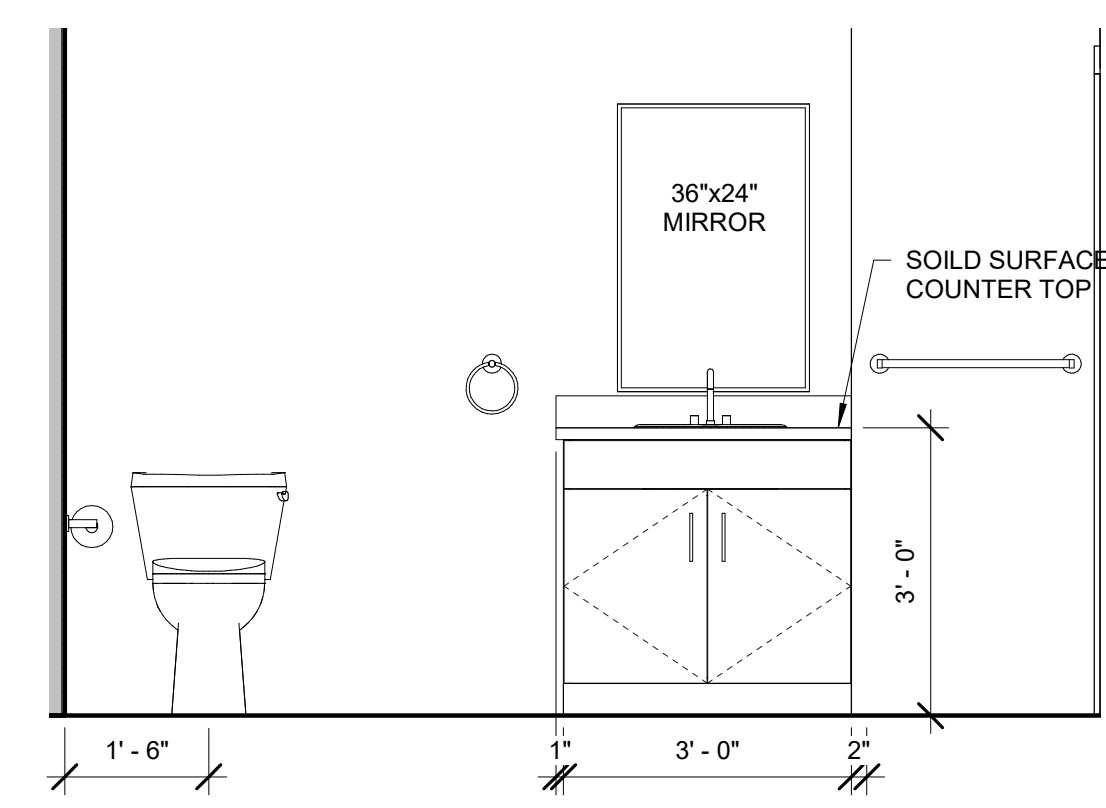
5 KITCHEN ELEVATION TYP.
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2 BATHROOM ELEVATION- ADA
A-401 scale: 1/2" = 1'-0"

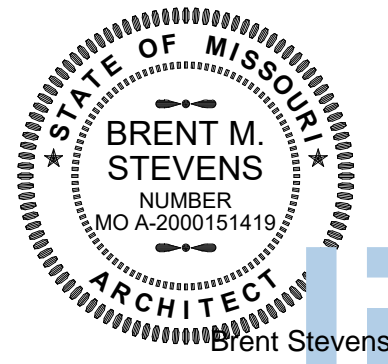


3 BATHROOM ELEVATION
A-401 scale: 1/2" = 1'-0"



4 BATHROOM ELEVATION
A-401 scale: 1/2" = 1'-0"

1 ENLARGED BATHROOM PLAN
A-401 scale: 1/2" = 1'-0"



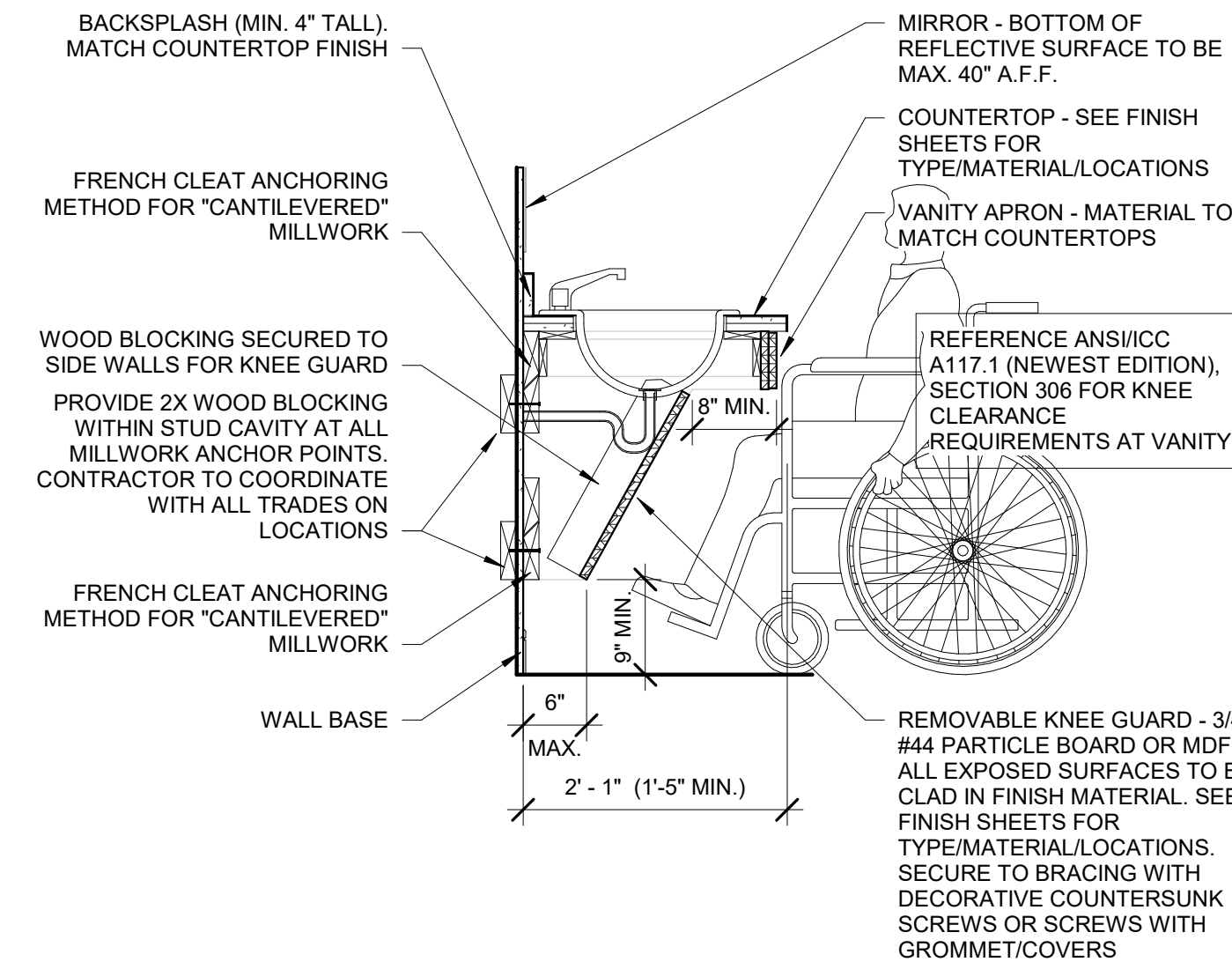
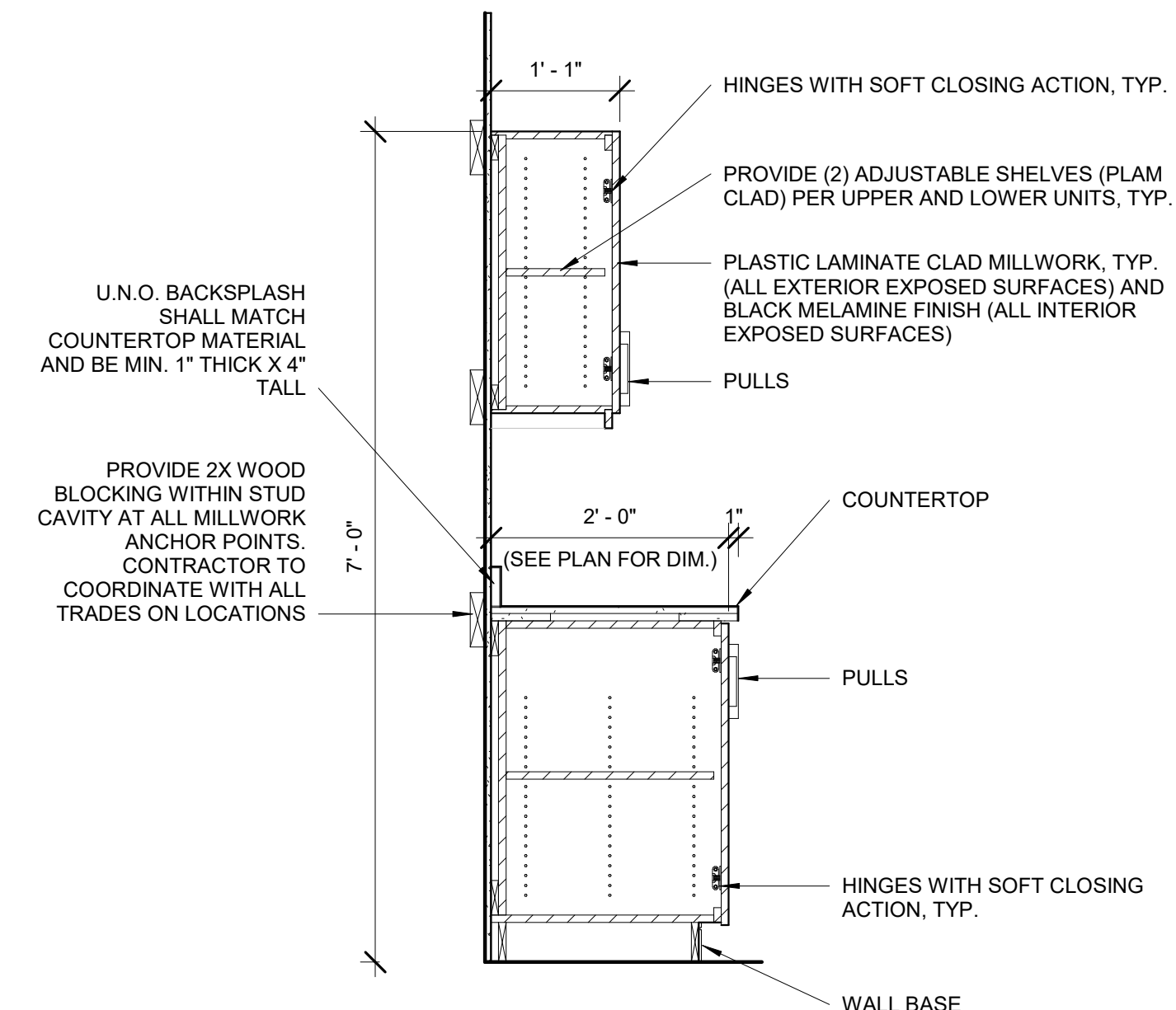
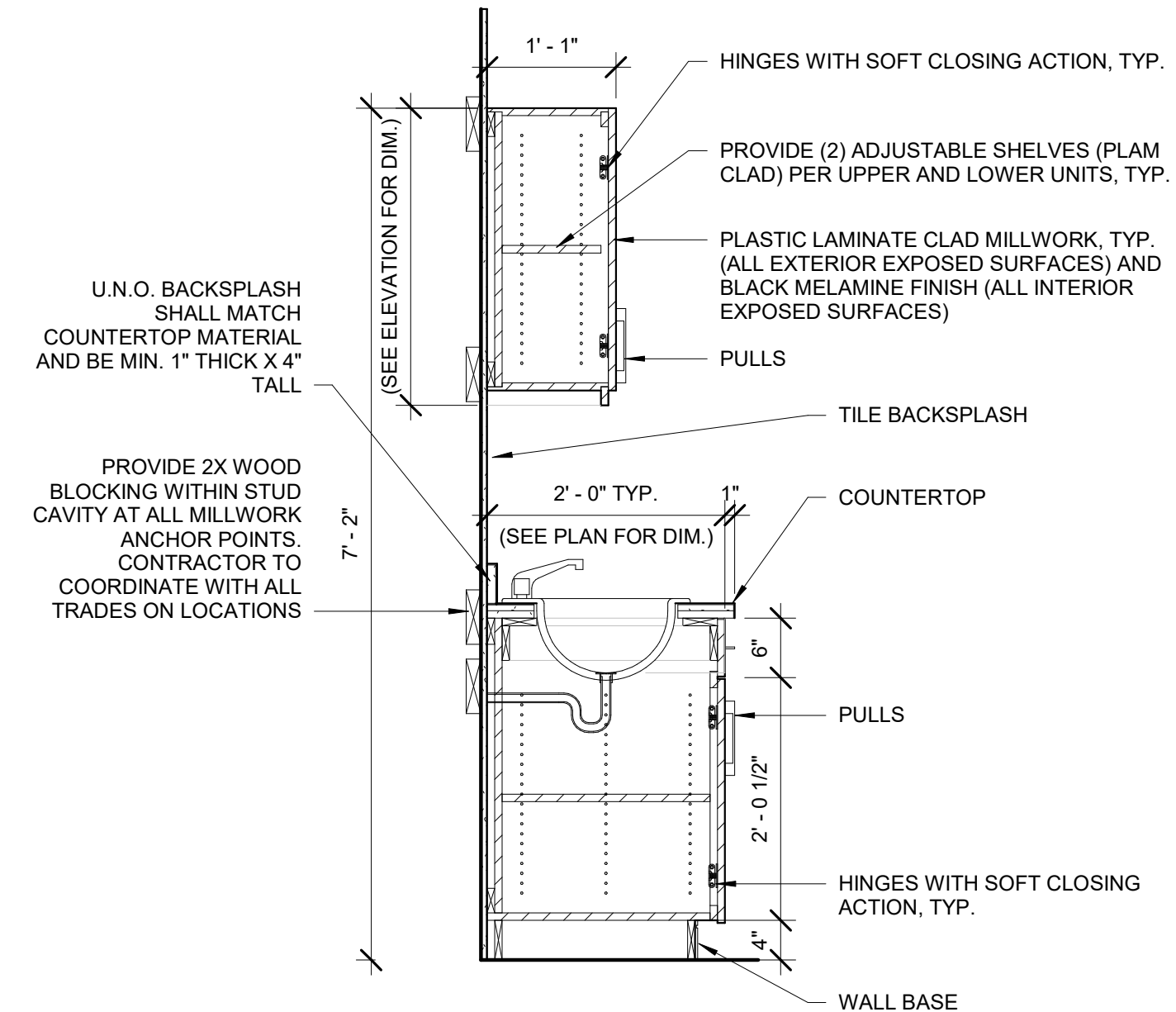
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by Brent Stevens
Date: 2023.01.17
13:34:15-0600

GENERAL NOTES - APPLIANCES

1. ALL APPLIANCES HAVE BEEN DESIGNED AROUND INDUSTRY STANDARD CABINET DEPTH AND STANDARD APPLIANCE DIMENSIONS. COORDINATE WITH OWNER(S) ON ANY VARIANCES IN APPLIANCE DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF MILLWORK. COORDINATE PRIOR TO SHOP DRAWING SUBMISSION.

GENERAL NOTES - MILLWORK

1. COORDINATE FINAL FINISHES AND CABINETRY DETAILS WITH ARCHITECT PRIOR TO FABRICATION. IF THERE IS A DISCREPANCY BETWEEN DETAILS, PLEASE NOTIFY ARCHITECT PRIOR TO FABRICATION.
2. REFER TO INTERIOR FINISH PLAN FOR ROOM FINISH SCHEDULE, MATERIALS LEGEND AND ADDITIONAL WALL AND FLOOR FINISH INFORMATION.
3. CONSTRUCT WALLS WITH ROUGH OPENINGS AS NEEDED FOR SIZES OF MILLWORK INDICATED.
4. INSTALL MATCHING WOOD SCRIBE AT ALL MILLWORK/WALL JOINTS.
5. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICKS TO MATCH MILLWORK FINISH PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISH WALL DIMENSIONS.
6. PROVIDE FINISHED SURFACES ON MILLWORK & COUNTERTOPS WHERE EXPOSED TO VIEW.
7. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF MILLWORK WHERE INDICATED AND AS NEEDED FOR SECURE ANCHOR TO WALLS.
8. CONTINUOUS CAULK AROUND ALL FIXTURES AT FLOORS, WALLS, ETC.
9. PROVIDE 1/4" GAP BETWEEN ALL DOORS, DRAWERS, LATERAL FILE, AND OTHER MOVABLE PIECES OF MILLWORK.
10. COUNTERTOPS TO BE SOLID SURFACE MATERIAL PER SPEC IN ALL PUBLIC AREAS AND WET AREAS.
11. ALL HARDWARE TO BE OIL RUBBED BRONZE FINISH.



3 MILLWORK SECTION

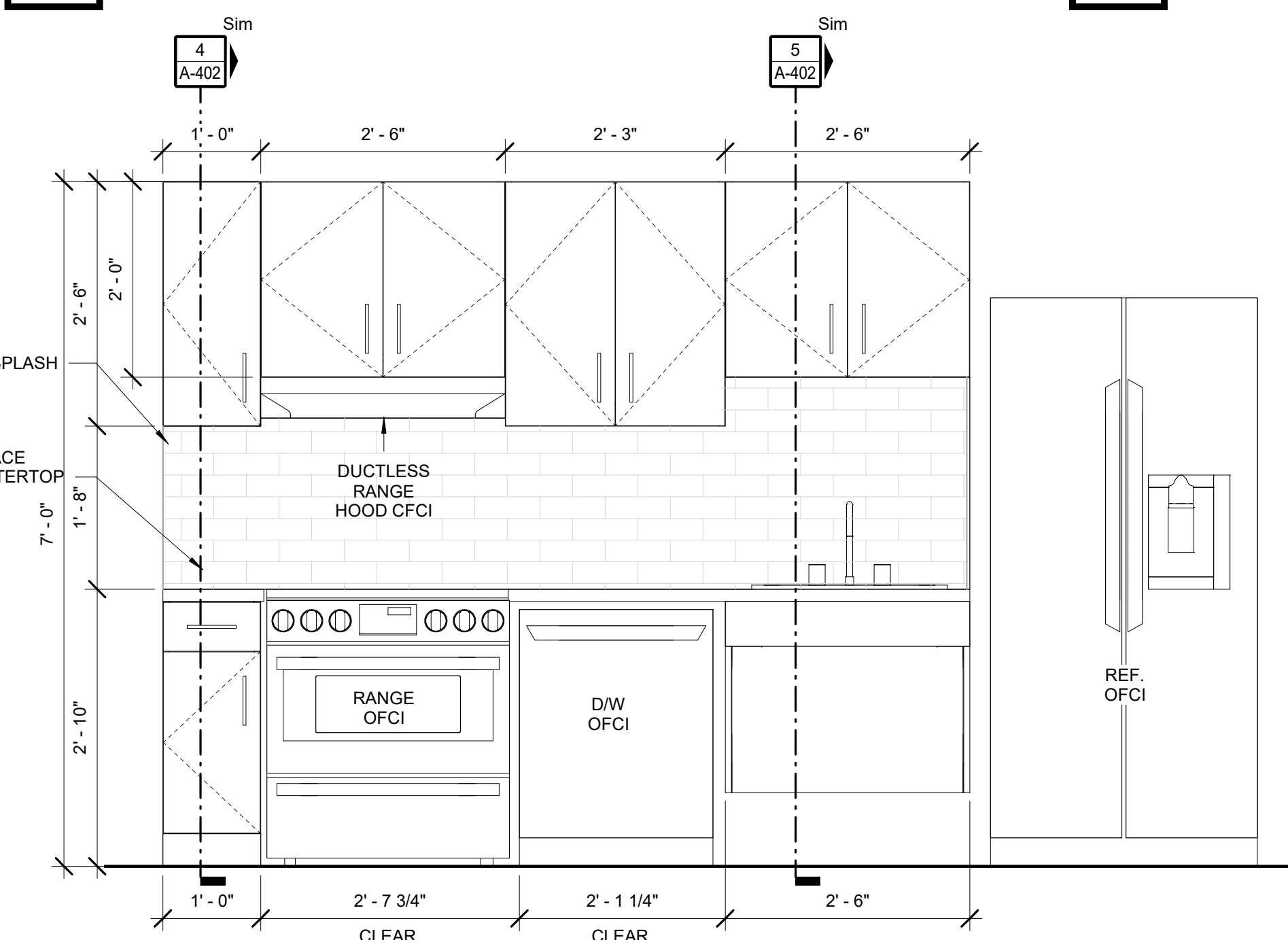
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4 MILLWORK SECTION

A-402 scale: 3/4" = 1'-0"

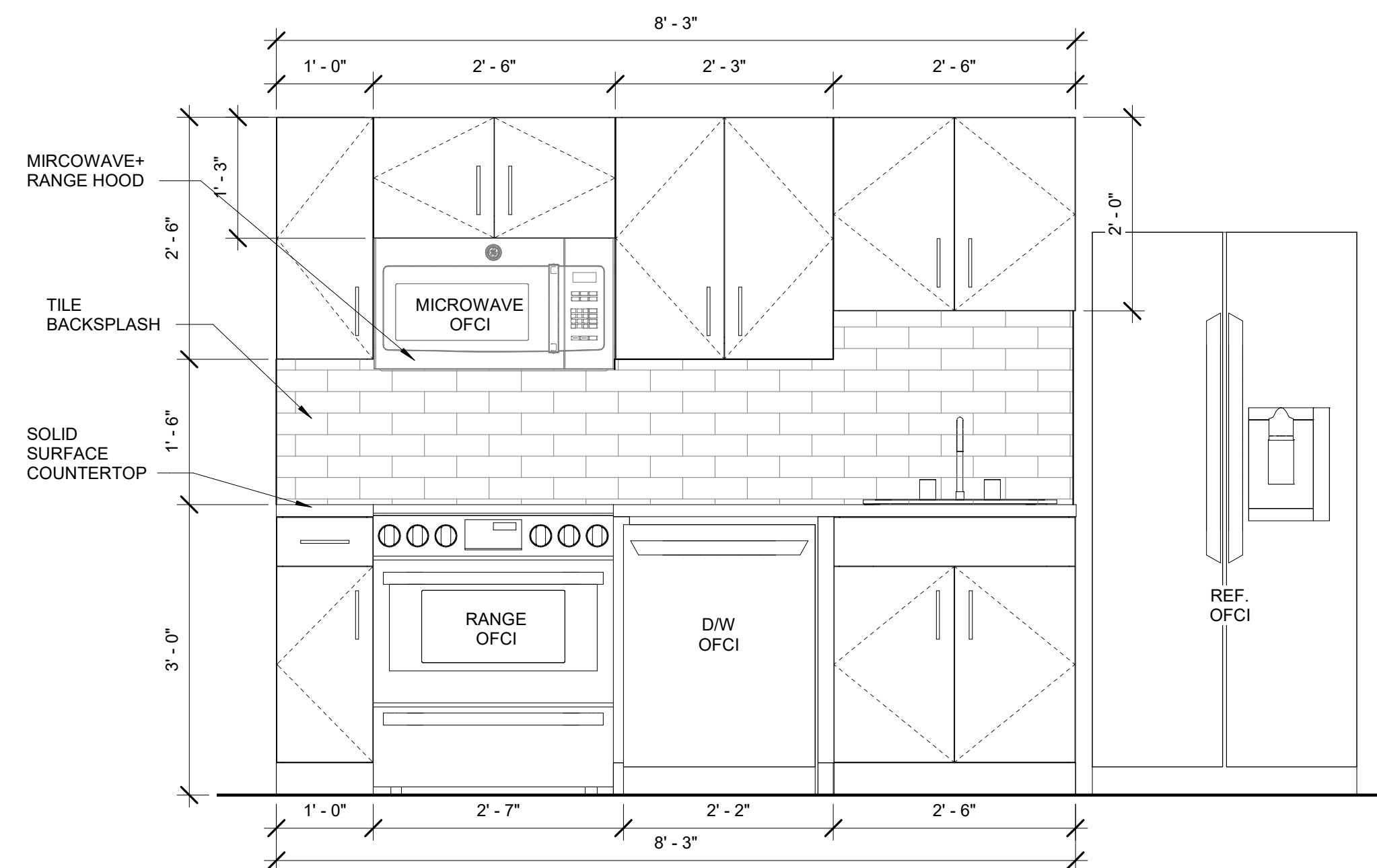
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1 ADA KITCHEN ELEVATION

A-402 scale: 3/4" = 1'-0"



2 KITCHEN ELEVATION

A-402 scale: 3/4" = 1'-0"

OFFICE OF ADMINISTRATION
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MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X221601 A-402
DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

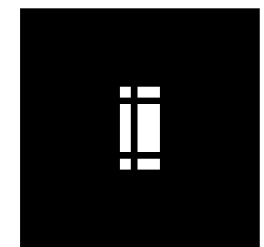
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ELEVATIONS**

SHEET NUMBER:

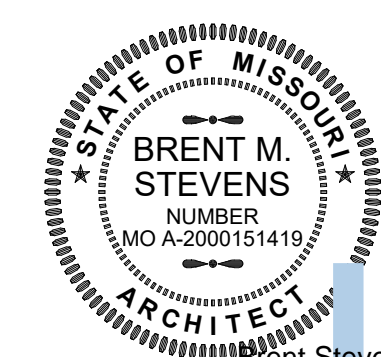
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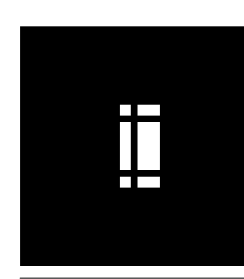


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13:34:14-06'00'

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ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: JANUARY 17, 2023

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DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

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DETAILS

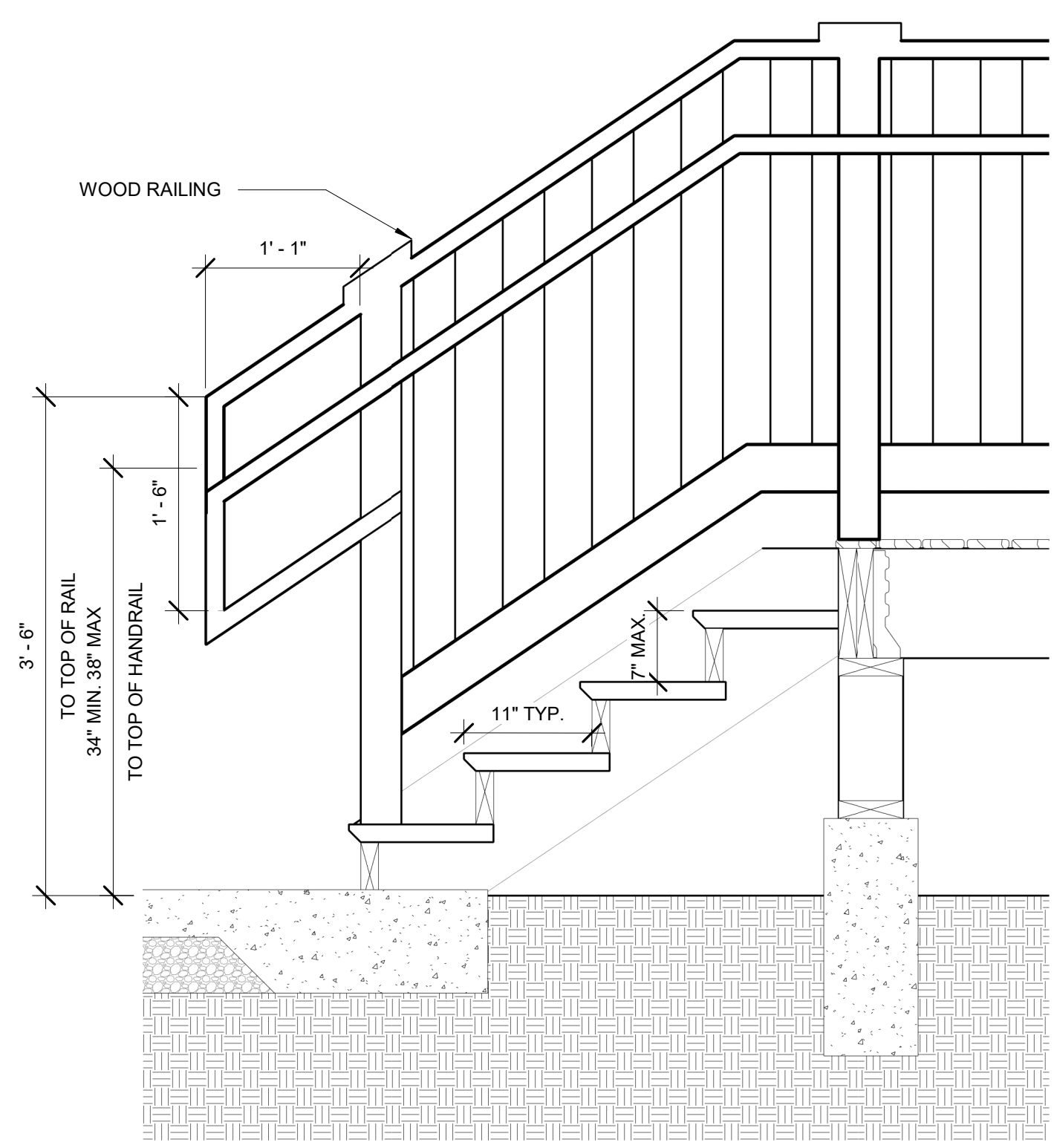
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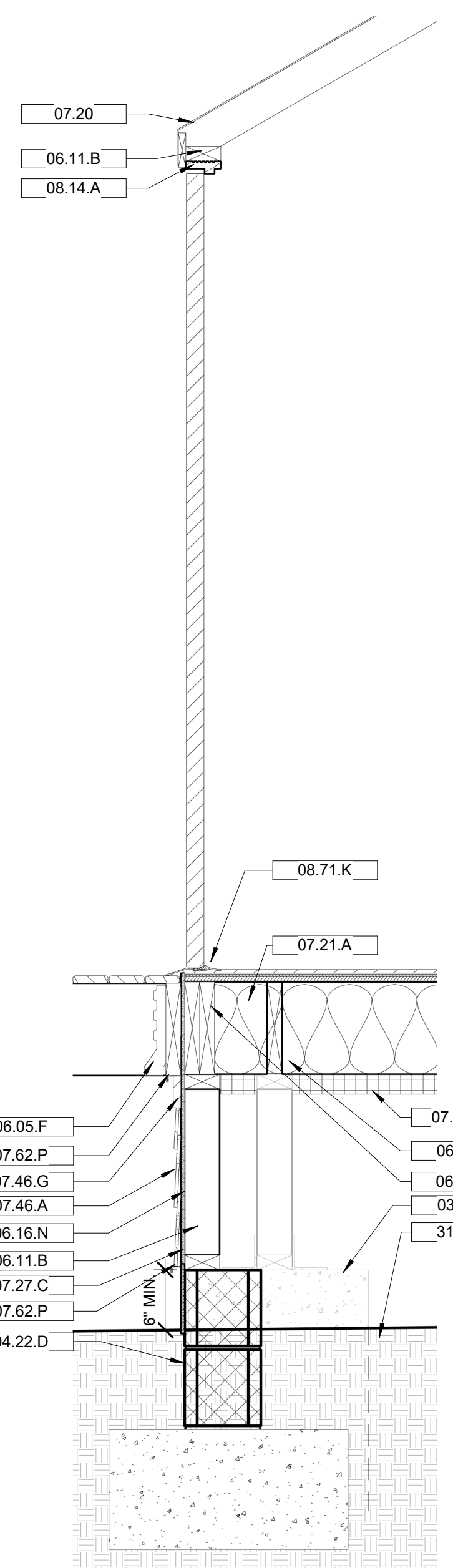
- 03.30A UNDERSLAB VAPOR RETARDER. SEE SPEC SECTION 033099 "UNDERSLAB VAPOR RETARDER" FOR MORE INFORMATION.
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- 07.62.A PREFORMED, PREFINISHED ALUMINUM FLASHING. SEE SPECIFICATIONS AND DETAILS FOR MORE INFORMATION. ALL EXPOSED EDGES TO BE HEMMED.
- 07.62.P PREFORMED, PREFINISHED BASE + COUNTER FLASHING WITH INTEGRAL DRIPS TO COVER CONTINUOUS CLEAT. PROVIDE MINIMUM INDICATED VERTICAL LEG. ALL EXPOSED EDGES TO BE HEMMED. SEE DETAIL SHEETS (ALL DISCIPLINES) FOR MORE INFORMATION.
- 07.95.K FIBROUS EXPANSION JOINT FILLER.
- 08.14.A WOOD DOOR/FRAME ASSEMBLY. SEE DETAILS, SPECIFICATIONS, AND A3 SERIES SHEETS FOR MORE INFORMATION.
- 08.71.K THRESHOLDS. SEE DOOR HARDWARE SCHEDULE, SPECIFICATIONS, DETAILS, AND A3 SERIES SHEETS FOR MORE INFORMATION.
- 09.60 FLOORING
- 09.64.A HARDWOOD FLOORING. SEE FINISH PLANS, FINISH SCHEDULE, DETAILS, AND/OR SPECIFICATIONS FOR MORE INFORMATION.
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GENERAL NOTES - RAILINGS

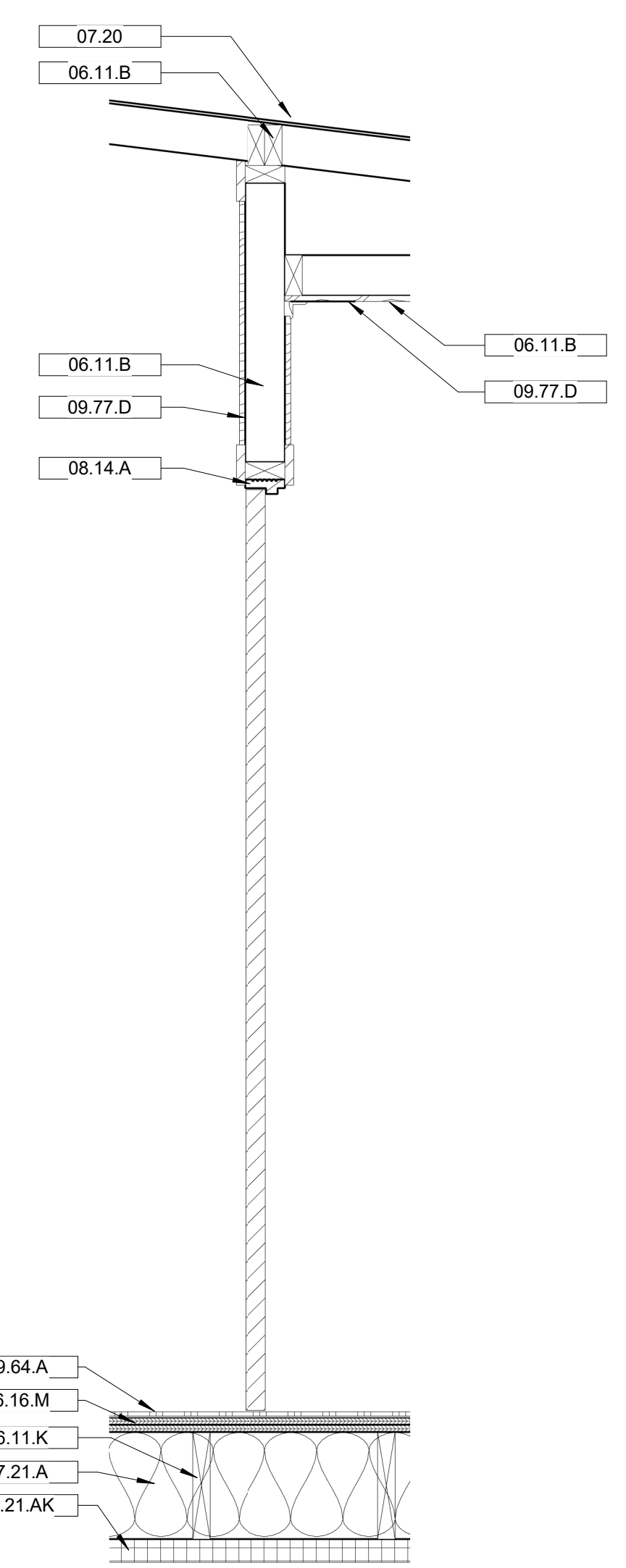
1. **TREAD & RISER:** STAIR RISER HEIGHTS SHALL BE 7 INCHES MAXIMUM AND 4" MINIMUM AND SHALL BE OF UNIFORM SIZE & SHAPE. STAIR TREAD DEPTHS SHALL BE 11" MINIMUM. THE RADIUS AT THE CURVATURE OF THE LEADING EDGE OF THE TREAD SHALL BE NOT GREATER THAN 1/2". BEVELING OF NOSINGS SHALL NOT EXCEED 1/2". RISERS SHALL BE SOLID AND VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE LEADING EDGE OF THE TREAD ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES FROM THE VERTICAL. THE LEADING EDGE (NOSINGS) OF TREADS SHALL PROJECT NOT MORE THAN 1.25 INCHES BEYOND THE TREAD BELOW AND ALL PROJECTIONS OF THE LEADING EDGES SHALL BE OF UNIFORM SIZE, INCLUDING THE LEADING EDGE OF THE FLOOR AT THE TOP OF A FLIGHT.
2. **HANDRAILS:** STAIRS SHALL HAVE HANDRAILS ON EACH SIDE AT A UNIFORM HEIGHT OF 34" TO 38" ABOVE STAIR TREAD NOSINGS. HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1.25 INCHES AND NOT GREATER THAN 2 INCHES. IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSIONS OF AT LEAST 4 INCHES AND NOT GREATER THAN 6.25 INCHES WITH A MAXIMUM CROSS-SECTION DIMENSIONS OF 2.25 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.125 INCHES. HANDRAILS SHALL RETURN TO A WALL AND SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. CLEAR SPACE BETWEEN A HANDRAIL AND A WALL SHALL NOT EXCEED 4.5 INCHES AT OR BELOW THE HANDRAIL HEIGHT AND SHALL NOT BE LESS THAN 1.5 INCHES.
3. **WIDTH:** STAIRWAY WIDTH SHALL NOT BE LESS THAN 44" CLEAR.



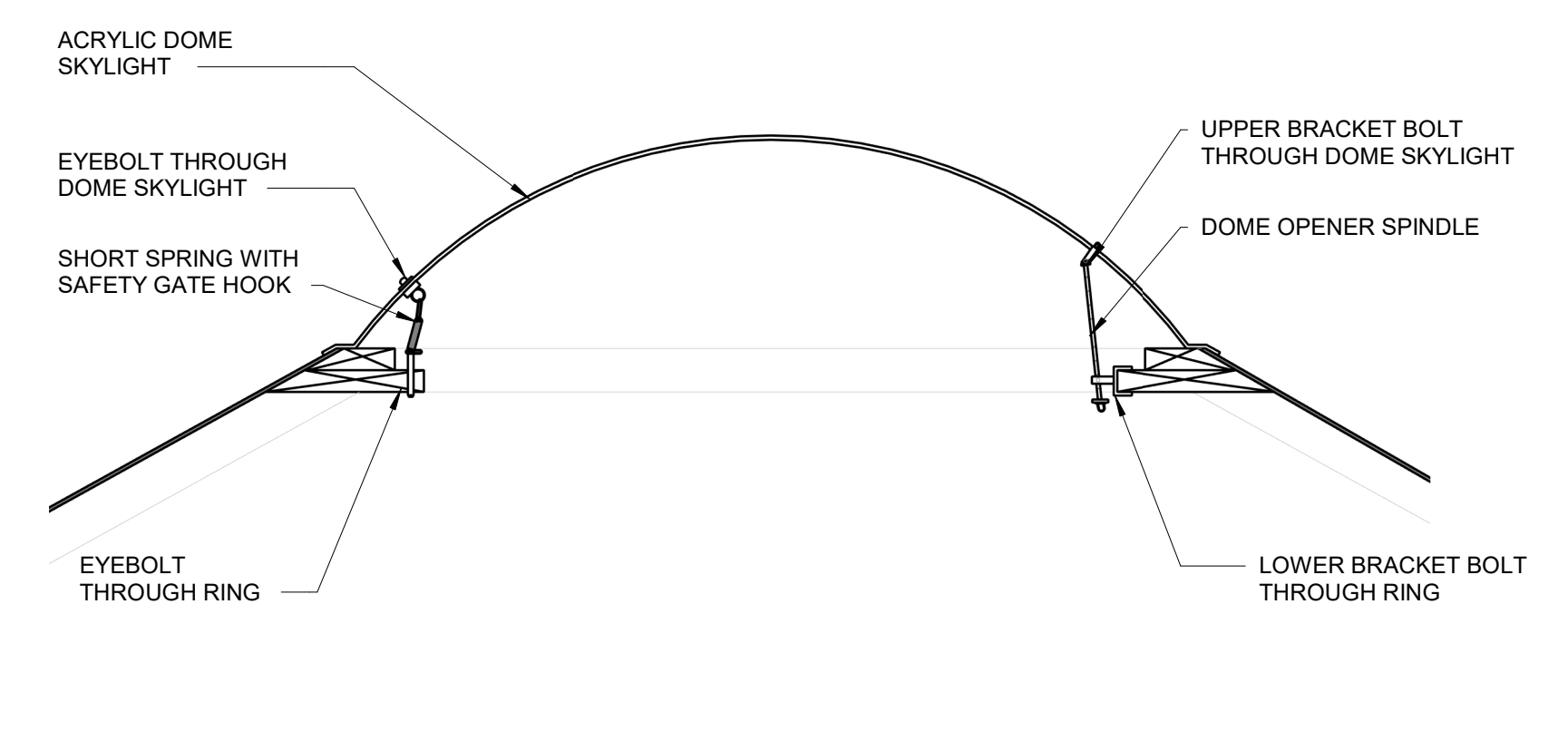
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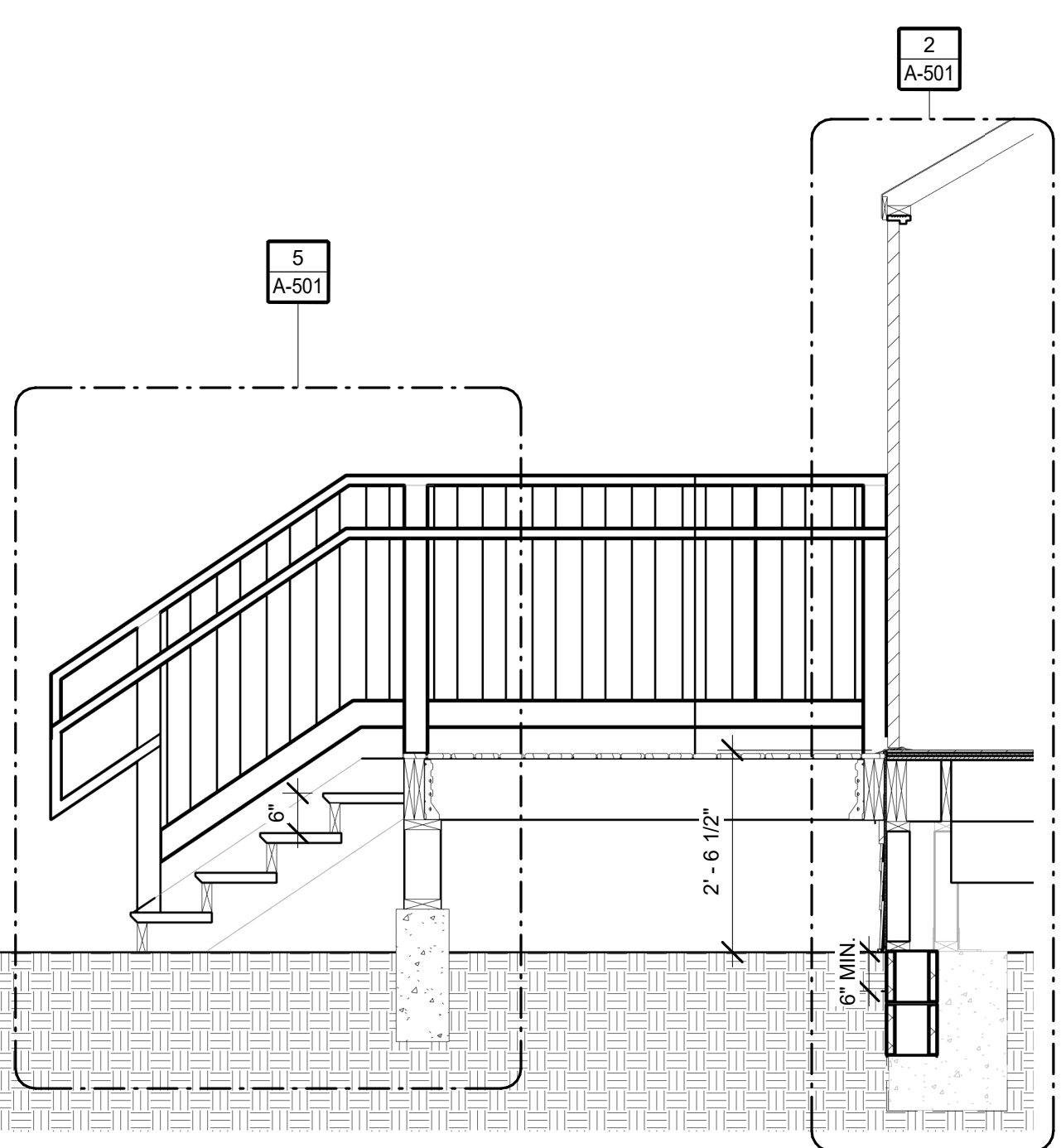
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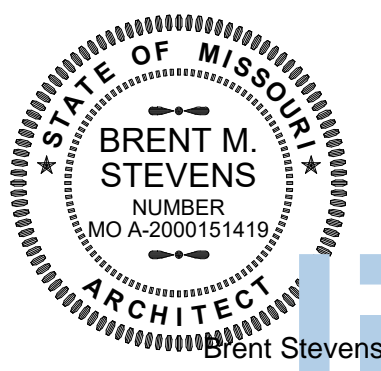
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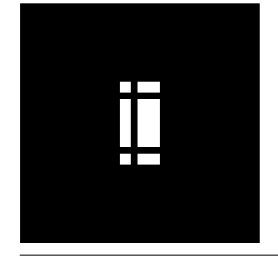


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A-501
scale: 1/2" = 1'-0"



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
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DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2215-01
SITE # 5603
ASSET # 7815603018

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: JANUARY 17, 2023

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DRAWN BY: HDG
CHECKED BY: HDG
DESIGNED BY: HDG

SHEET TITLE:
DETAILS

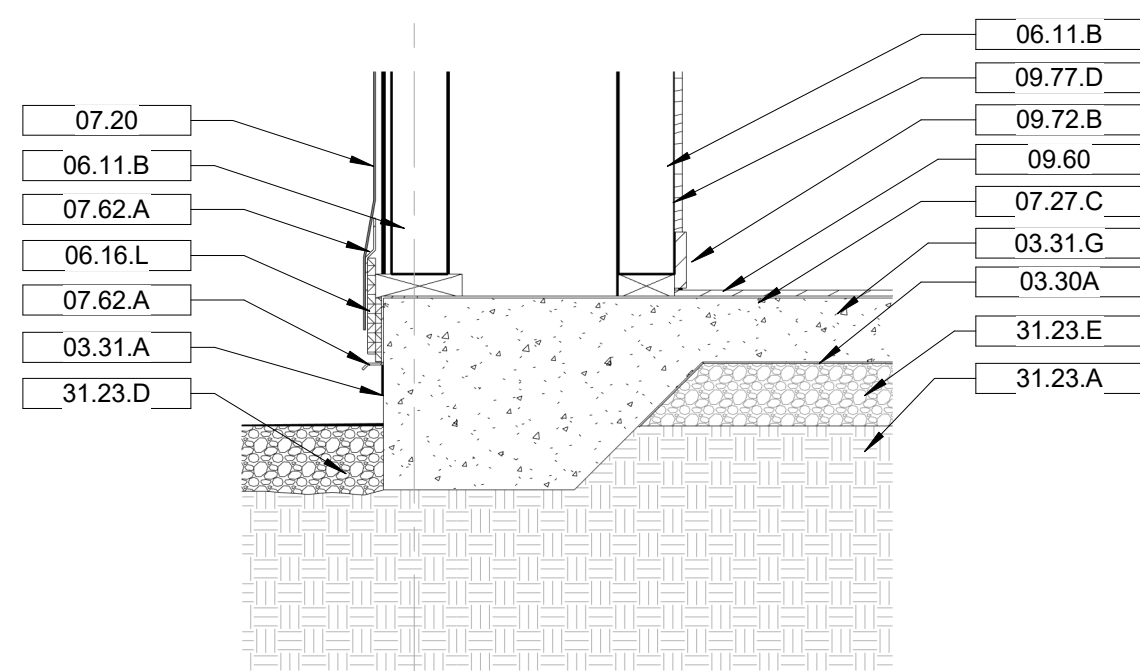
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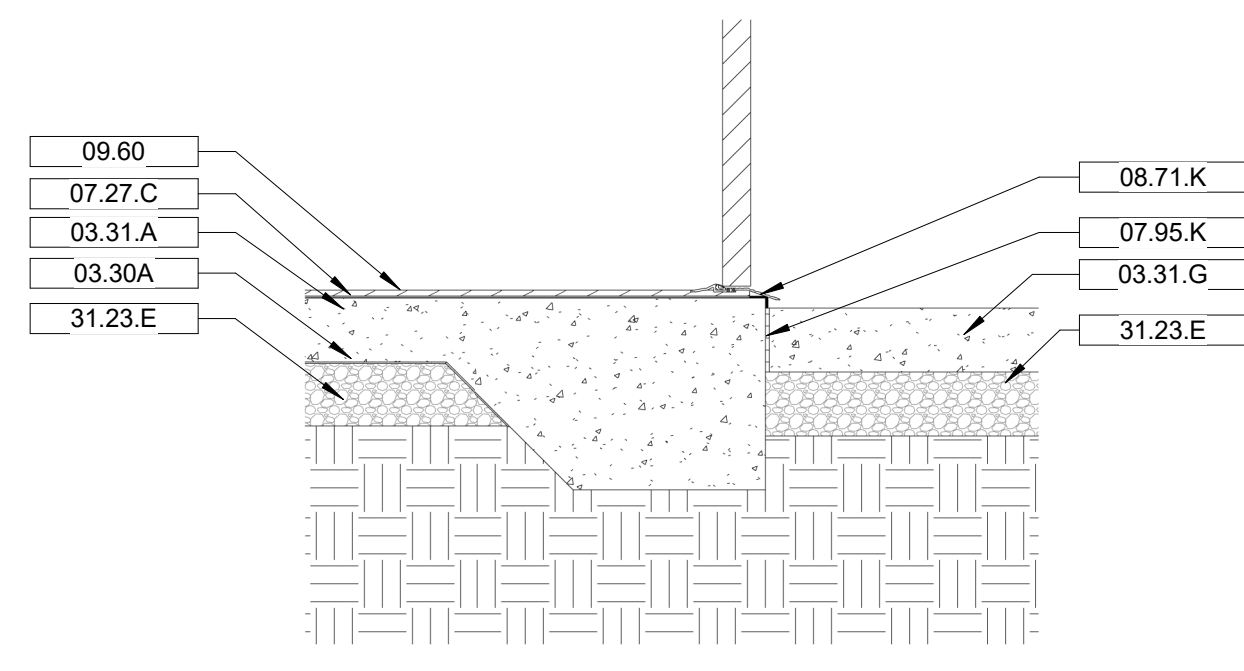
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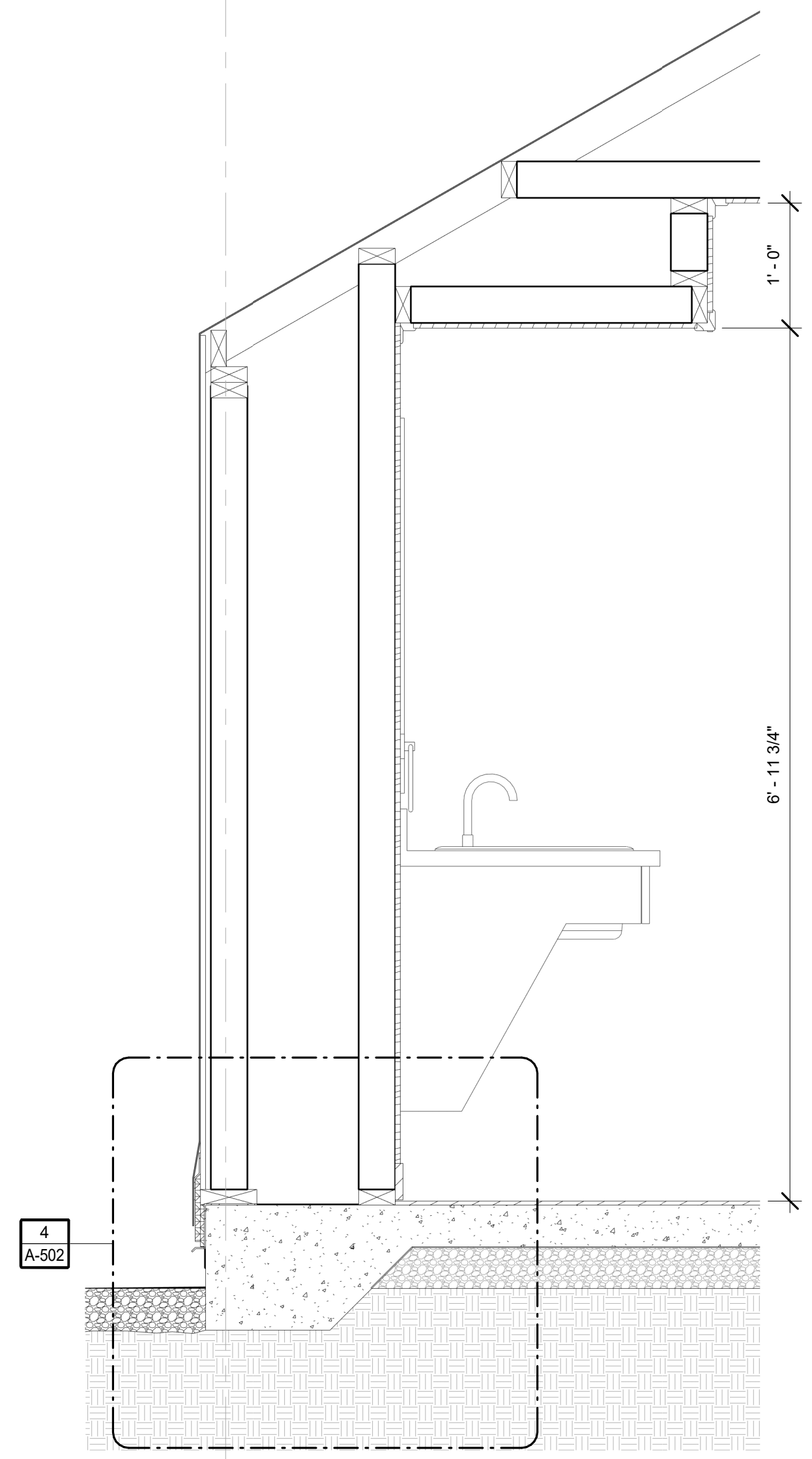
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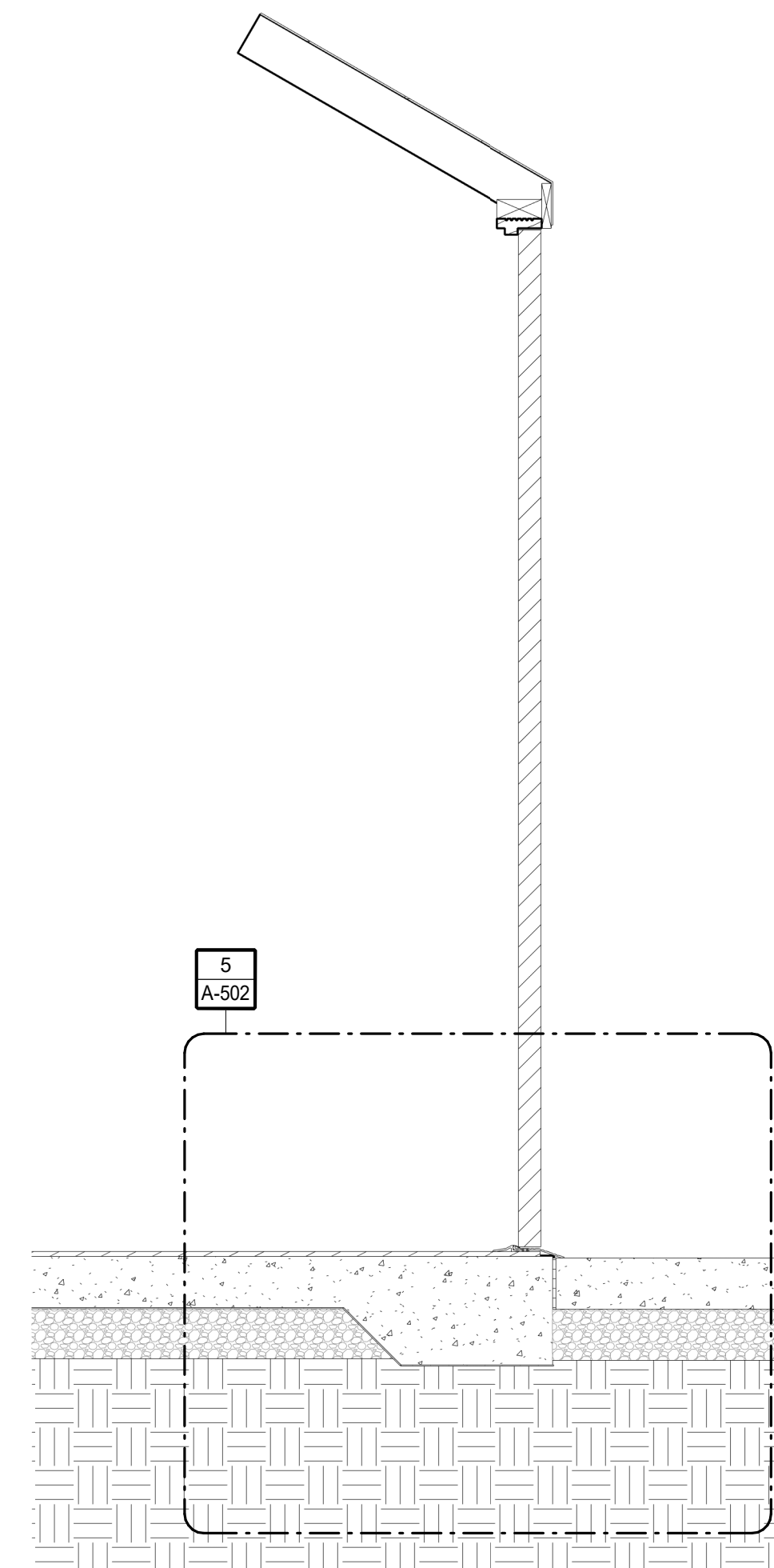
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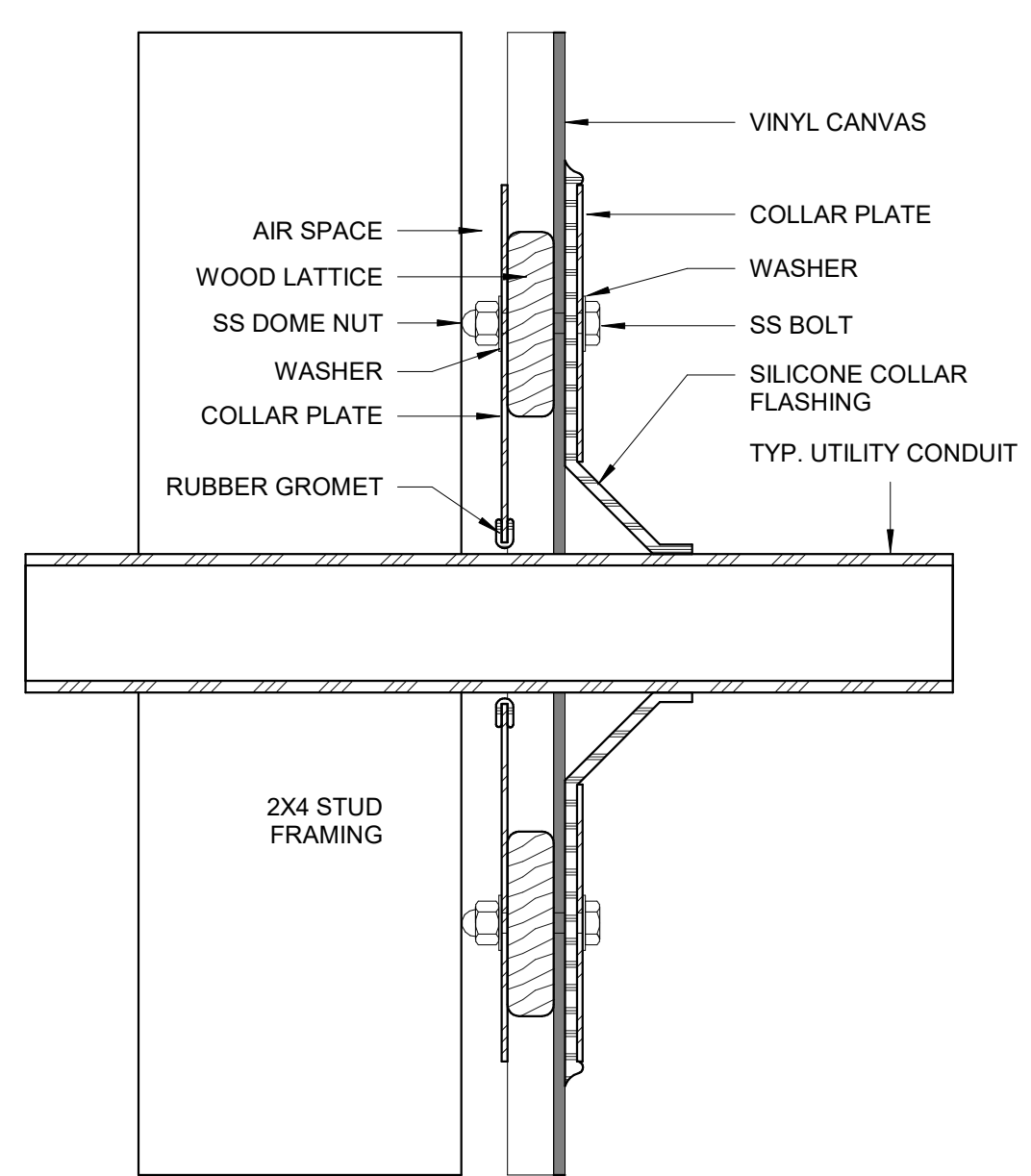
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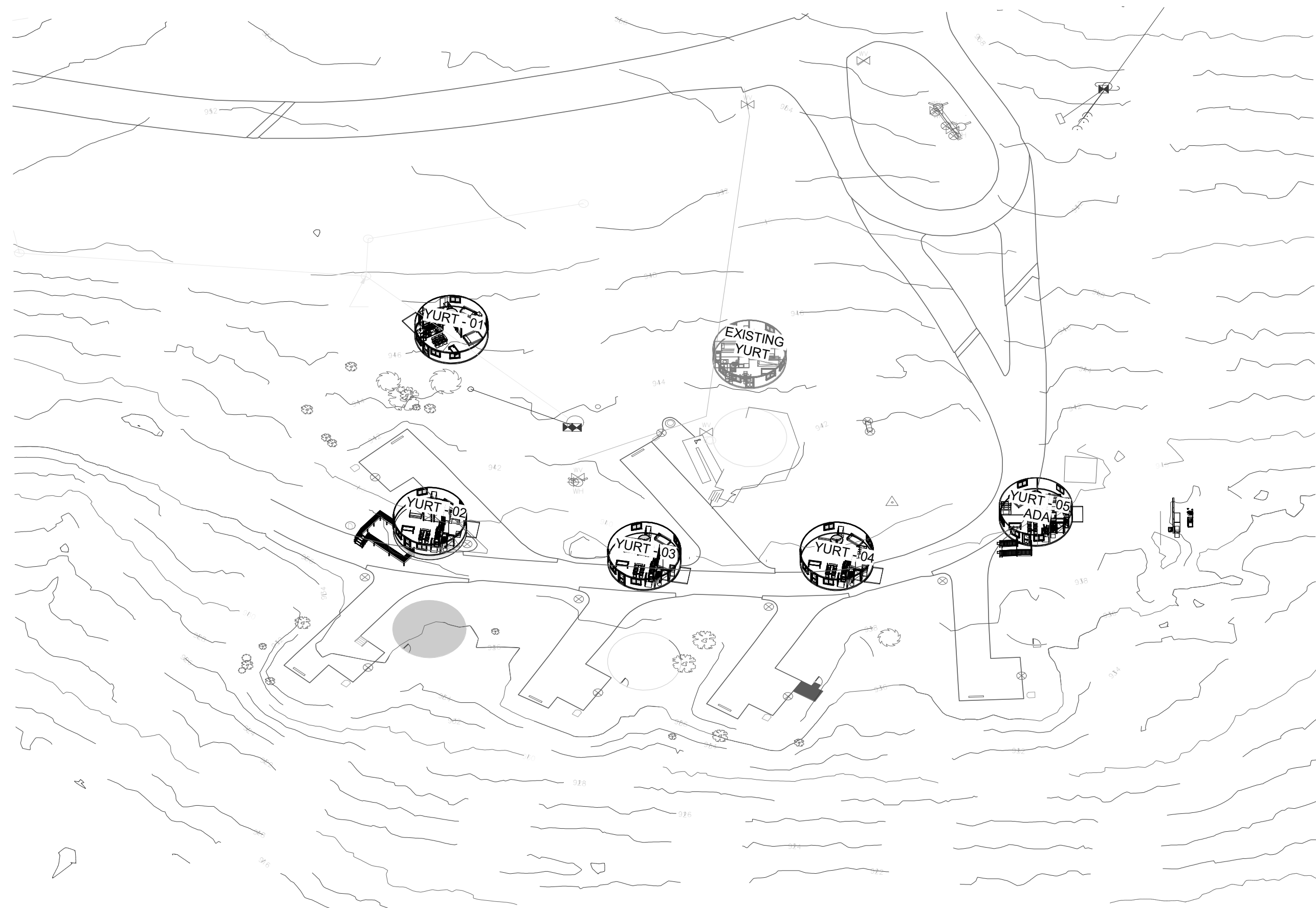
1 WALL SECTION
A-502 scale: 1" = 1'-0"



2 WALL SECTION
A-502 scale: 1" = 1'-0"



3 TYP. EXTERIOR WALL PENETRATION
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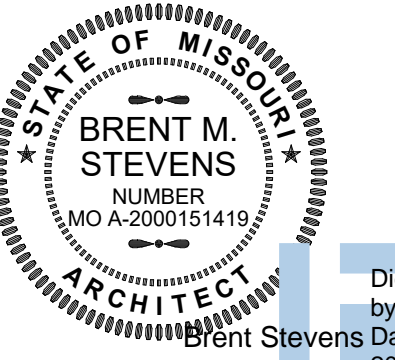


UNIT MIX

YURT - 01
 YURT - 02
 YURT - 03
 YURT - 04
 YURT - 05

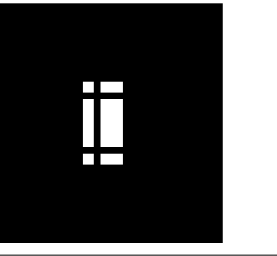
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SLAB ON GRADE	01	707
RAISED PLATFORM	01	707
SLAB ON GRADE	01	707
SLAB ON GRADE	01	707
SLAB ON GRADE - ADA	01	707
5 TOTAL UNITS	TOTAL GROSS S.F.	3,535
	TOTAL NET S.F.	2,735

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



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REVISION: _____
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 DATE: _____

ISSUE DATE: JANUARY 17, 2023

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 CHECKED BY: HDG
 DESIGNED BY: HDG

SHEET TITLE:
ARCH SITE PLAN

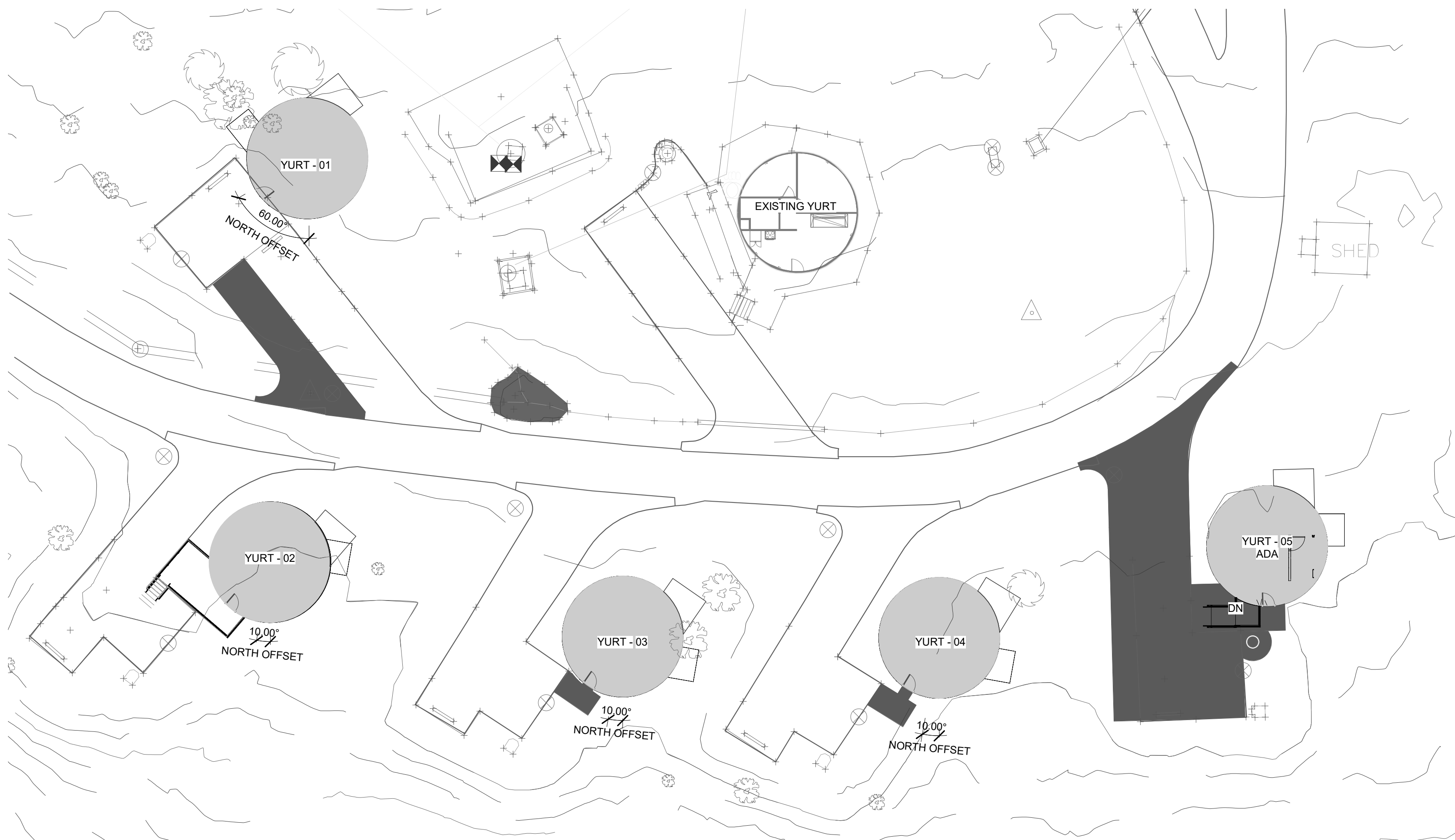
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AS-101

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2 SOLAR ORIENTATION DIAGRAM

AS-101 scale:



1 ARCH SITE PLAN

AS-101 scale: 1" = 20'-0"

ELECTRICAL SYMBOLS:

EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED
FLUORESCENT LIGHT FIXTURE
UNSWITCHED "NIGHT LIGHT" FIXTURE
EMERGENCY LIGHTING FIXTURE
RECESSED CAN LIGHT FIXTURE
WALL-MOUNT LIGHT FIXTURE
20AMP, SINGLE POLE, 120/277V SWITCH
20AMP, THREE-WAY, 120/277V SWITCH
20AMP, FOUR-WAY, 120/277V SWITCH
20AMP, DOUBLE POLE, 120/277V SWITCH
20AMP, SINGLE POLE, 120/277V SWITCH WITH LOAD ON, LIGHT ON PILOT LIGHT
DIMMER SWITCH
20AMP, SINGLE POLE, 120/277V, KEY OPERATED SWITCH
20AMP, MOMENTARY CONTACT, 120/277V SWITCH
CEILING-MOUNTED OCCUPANCY SENSOR
WALLBOX-MOUNTED OCCUPANCY SENSOR
INTERCOM STATION, COORDINATE ROUGH-IN REQUIREMENTS WITH SYSTEM SUPPLIER/INSTALLER
DOOR ACTUATOR PUSHBUTTON, COORDINATE ROUGH-IN REQUIREMENTS WITH SYSTEM SUPPLIER/INSTALLER
CARD READER/ACCESS CONTROL DEVICE, COORDINATE ROUGH-IN REQUIREMENTS WITH SYSTEM SUPPLIER.
SECURITY CAMERA, PROVIDE DOUBLE-GANG BOX, SINGLE-GANG PLASTER RING, AND 0.75" CONDUIT TO ACCESSIBLE CEILING SPACE OR ELECTRICAL/IDF ROOM.
SIMPLEX RECEPTACLE, 2P, 3W, 20A, 125V
SIMPLEX RECEPTACLE, NEMA CONFIGURATION AS INDICATED
DUPLEX RECEPTACLE, 2P, 3W, 20A, 125V
DUPLEX RECEPTACLE MOUNTED @ 42" ABOVE FINISHED FLOOR
DUPLEX RECEPTACLE, INSTALLED FLUSH WITH CEILING
DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTERTOP BACKSPASH
DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
DUPLEX RECEPTACLE FOR TV, COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND TV SUPPLIER/INSTALLER
DUPLEX RECEPTACLE, SWITCHED, BOTTOM HALF ONLY
DUPLEX RECEPTACLE, TAMPER RESISTANT
DUPLEX RECEPTACLE W/ USB CHARGING PORT, PROVIDE RECEPTACLE EQUAL TO HUBBELL #R582012 SERIES
DUPLEX RECEPTACLE, WEATHERPROOF
DOUBLE DUPLICATION RECEPTACLE WITH COMMON FACEPLATE
RECEPTACLE MOUNTED IN FLUSH FLOOR BOX. REFER TO SPECIFICATIONS
JUNCTION BOX - CEILING MOUNTED
JUNCTION BOX - WALL MOUNTED
LIGHTING & POWER PANELBOARD
ELECTRICAL EQUIPMENT, REFER TO SCHEDULE FOR TAGGED EQUIPMENT
DISCONNECT SWITCH
CONDUIT CONCEALED IN CEILING OR WALL
CONDUIT CONCEALED IN FLOOR SLAB
CONDUIT ROUTED EXPOSED AT STRUCTURE
#12 CONDUCTORS, TICK MARKS INDICATE QUANTITY
P1-1 HOME RUN WITH PANEL AND CIRCUIT DESIGNATION
P1-2 PARTIAL HOME RUN WITH PANEL AND CIRCUIT DESIGNATION
GROUND WIRE
FEEDER PER SCHEDULE
VOLUME CONTROL, STATION - PROVIDE SINGLE-GANG JUNCTION BOX WITH 0.75" CONDUIT TO ACCESSIBLE CEILING SPACE
TELECOMMUNICATIONS OUTLET
CABLE TELEVISION OR MATV OUTLET, COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND TV SUPPLIER/INSTALLER
TELECOMMUNICATIONS OUTLET INSTALLED IN FLUSH FLOOR BOX

* THESE DEVICE REQUIRE 4" SQUARE JUNCTION BOX WITH 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE (0.75" CONDUIT FROM GUESTROOM DEVICES). WHERE APPLICABLE, INSTALL CONDUIT TO NEAR CABLE TRAY, PROVIDE PULL STRING AND INSULATING BUSHING UNLESS INDICATED OTHERWISE IN PLANS OR SPECIFICATIONS

ELECTRICAL GENERAL NOTES:

- GENERAL
1. CJD LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTORS OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E.
2. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTORS SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED IN THESE CONSTRUCTION DOCUMENTS TO PROVIDE SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
3. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIANS AND SHALL COMPLY WITH THE 2018 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE CITY OF SPRINGFIELD, MISSOURI.
4. THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
5. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY DIMENSIONS.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
7. CONDUIT LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
8. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
9. MAINTAIN ALL CLEARANCES REQUIRED BY MECHANICAL AND ELECTRICAL EQUIPMENT. COORDINATE WITH PLUMBING AND HVAC CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
10. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE THE WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES, PIPING, ETC. ARE INCLUDED IN THE BID PRICE.
12. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF SIX (6) COPIES ON ALL FIXTURES AND EQUIPMENT.
13. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CONSTRUCTION ADMIN. LDC NOT LESS THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTIONS OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM THE SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
15. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW DUCTWORK, GRILLES, DIFFUSERS, ETC. ARE INCLUDED IN THE BID PRICE.
17. COORDINATE LIGHTING FIXTURE LOCATIONS WITH REFLECTED CEILING PLANS.
18. COORDINATE INFORMATION OUTLET, RECEPTACLE, AND OTHER DEVICE LOCATIONS WITH OWNER AND WITH MILLWORK AND WITH OTHER TRADES PRIOR TO ROUGH-IN.
19. INFORMATION OUTLET (DATA AND TELEPHONE) DEVICES, WALL PLATES, AND ASSOCIATED PLENUM RATED WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT WITH THE OWNER.
20. PRODUCTS
1. LIGHT SWITCHES SHALL BE HUBBELL 1220 SERIES, 20-AMP, 120/277-VOLT, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
2. DUPLICATION RECEPTACLES SHALL BE HUBBELL 5300 SERIES, 20A, 125V, NEMA CONFIGURATION 5-20R, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
3. ELECTRICAL DEVICE WALL PLATES SHALL BE HIGH IMPACT NYLON PLASTIC IN COLOR AS SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
4. EQUIVALENT WIRING DEVICES BY BRYANT, COOPER, HUBBELL AND LEVITON.
5. EQUIVALENT PANELBOARDS, LIGHTING CONTRACTORS AND DISCONNECT SWITCHES BY CUTLER HAMMER, GENERAL ELECTRIC, AND SQUARE D.
21. EXECUTION
1. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT AND SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PVC CONDUIT WILL BE ALLOWED BELOW SLAB AND IN GRASSY AREAS. ALL TRANSITIONS FROM PVC TO STEEL CONDUIT SHALL BE MADE BELOW GRADE. MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS ABOVE GRADE SHALL BE 1/2". MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS BELOW GRADE SHALL BE 3/4". CONTRACTOR SHALL HAVE THE OPTION TO USE METALLIC GLAD (M/G) CABLE FOR CONCEALED BRANCH CIRCUIT WIRING.
2. INSTALL BRANCH CIRCUIT WIRING, TELE/DATA, ETC. IN WIREMOLD SERIES 2000 SURFACE METAL RACEWAY WHERE EXISTING CONDITIONS NECESSITATE ITS INSTALLATION TO BE SURFACE MOUNTED AND ONLY WHEN APPROVED BY ARCHITECT/ENGINEER. EQUIVALENT BY HUBBELL. PAINT SURFACE MOUNTED RACEWAY AND COMPONENTS IN COLOR AS SELECTED BY ARCHITECT.
3. MINIMUM CONDUIT SIZE FOR INFORMATION OUTLETS SHALL BE 3/4". CONDUIT STUBS SHALL BE TERMINATED WITH INSULATING BUSHINGS.
4. FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER, 600V WITH THHN/THWN INSULATION. BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM. BUSHINGS FOR BRANCH CIRCUITS OVER 75 FEET LONG SHALL BE #10 AWG, OVER 100 FEET LONG, #8 AWG UNLESS INDICATED OTHERWISE.
5. ALL LIGHTING AND POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
6. ALL RECEPTACLES, TELECOMMUNICATIONS OUTLETS, AND TELEVISION OUTLETS SHALL BE INSTALLED AT 18" AFF TO CENTER UNLESS NOTED OTHERWISE. ALL SWITCHES SHALL BE INSTALLED AT 48" AFF TO CENTER UNLESS NOTED OTHERWISE.
7. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR THERMOSTATS AND SENSOR. PROVIDE SINGLE-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO ASSOCIATED EQUIPMENT. THERMOSTATS, SENSORS, AND WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
9. PROVIDE SLEEVES AT CONDUIT PENETRATIONS OF EXTERIOR WALLS. SEAL PENETRATIONS WEATHERTIGHT.
10. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL PENETRATION DETAILS.
11. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, CONDUIT/PLUG CONNECTIONS, ETC FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO EQUIPMENT TEMPLATES / DRAWINGS FOR ADDITIONAL INFORMATION.

PLUMBING SYMBOLS:

Sanitary Waste Piping Below Slab
Sanitary Waste Piping Above Slab
Sanitary Combination Waste and Vent Piping
Domestic Cold Water Piping
Domestic Hot Water Piping
Domestic Hot Water Return Piping
Plumbing Vent Piping
Condensate Drain Piping
Natural Gas Piping
Compressed Air
Fuel Oil
Shut-Off Valve
Balance Valve
Union
Check Valve
Shock Absorber
Pressure Gauge
TEE / Elbow Down with Valve in Vertical Pipe
Freeze-Proof Wall Hydrant / Hose Bibb
Backflow Preventer
Pressure Regulator
Pipe Drain; Type and Size
Finish Grade CLEANOUT
Finish Floor CLEANOUT
Finish Wall CLEANOUT

HVAC SYMBOLS:

Flexible Ductwork
Ceiling Return/Exhaust Grille
Ceiling Supply Diffuser
Sidewall Grille
Linear Slot Diffuser
Thermostat
Carbon Dioxide Sensor
Remote Temperature Sensor
Ductwork (Width/Height)
Flexible Connection
Diffuser Type, Size, CFM
Rectangular to Round Take-Off with Damper

MECHANICAL GENERAL NOTES:

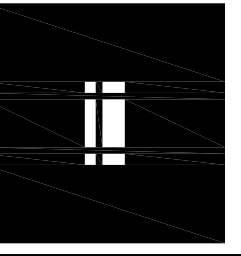
- GENERAL
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2. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTORS SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
3. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING, PLUMBING, FUEL GAS, AND MECHANICAL CODES AS ADOPTED BY CITY OF SPRINGFIELD, MISSOURI.
4. THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
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7. PIPING AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
8. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
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12. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF SIX (6) COPIES ON ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
13. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CONSTRUCTION ADMIN. LDC NOT LESS THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM THE SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
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17. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT FIRM CERTIFIED WITH ASSOCIATED AIR BALANCING CONTROL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU TO PERFORM THE HVAC SYSTEM TESTING AND BALANCING IN ACCORDANCE WITH ASHRAE OR ASHRAE NATIONAL STANDARDS.
22. PRODUCTS
1. ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE BRONZE FULL PORT BALL VALVE WITH PACKING NUT, TEFLON SEATS, BRONZE BALL, SALCON BRONZE STEM INSULATED HANDLE, AND SCREWED ON SOLDER ENDS.
2. DUCT CONSTRUCTION:
ALL DUCTWORK SHALL BE FABRICATED OF 600 GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS MANUAL. ALL SUPPLY AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE (ESP) OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
RECTANGULAR SUPPLY AIR DUCT: - 1.5" PRESSURE CLASS OR GREATER: GALVANIZED SHEET METAL WITH DUCTMAE OR EQUIVALENT FLANGE DUCT FITTINGS.
RECTANGULAR SUPPLY AND RETURN AIR DUCT: - 1.5" PRESSURE CLASS OR GREATER: GALVANIZED SHEET METAL. INSULATE SUPPLY DUCTWORK WITH 2" 1.0 LB DENSITY FIBERGLASS DUCT WRAP WITH FOIL-SCREEN-KRAFT FACING.
CONCEALED ROUND SUPPLY AIR DUCT: - 1" PRESSURE CLASS OR LESS: GALVANIZED SNAP-LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED. WRAP SUPPLY DUCT WITH 2" 1.0 LB DENSITY FIBERGLASS DUCT WRAP WITH FOIL-SCREEN-KRAFT FACING.
CONCEALED ROUND RETURN AND EXHAUST DUCT: - 1" PRESSURE CLASS OR LESS: GALVANIZED SNAP-LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED.
FLEXIBLE DUCTWORK: FLEXMASTER IISA TYPE 88, UL 181 CLASS 1 RATED PRE-INSULATED ACoustICAL FLEX DUCT WITH MECHANICAL LOCK HELIX CONSTRUCTION, 25/30 FLAME SMOKE RATING, AND R-6.0 THERMAL BARRIER. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 LINEAR FEET. FLEXIBLE DUCT SHALL NOT BE USED ON SYSTEMS WITH PRESSURE CLASS GREATER THAN 1".
3. ROUND TAKE-OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH BUCKLEY AIR PRODUCTS MODEL 3000 AND 3000L SERIES TO ROUND DUCT FITTINGS. FITTINGS WITH INTERIOR BRUSHING, INTERIOR VOLUME DAMPERS AND INSULATION STAND-OFFS WHERE INDICATED. EQUIVALENT BY AIR-TITE AND CROWN.
4. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE.
5. ALL DUCTWORK SHALL BE FABRICATED OF 600 GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS MANUAL. ALL SUPPLY AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE (ESP) OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
6. EQUIVALENT EXHAUST FANS BY COOK, GREENECK, PENN AND A/CME.
7. EQUIVALENT GRILLES, DIFFUSERS AND REGISTERS BY CAROL KRUEGER, GREENECK, NAJORA, PRICE, TITUS AND TUTTLE & BRADY.
8. EQUIVALENT VRF HVAC EQUIPMENT BY DAIKIN AND LG.
23. EXECUTION
1. INSULATE ALL ABOVE GRADE DOMESTIC WATER AND CONDENSATE DRAIN PIPING WITH ARMACEL 1/2" THICK AP/ARMAFLEX FLEXIBLE ELASTOMERIC THERMAL PIPE INSULATION. EQUIVALENT BY RUBATREX. THE USE OF TUBULOT OR EQUIVALENT GILDAC POLYETHYLENE FOAM INSULATION IS STRICTLY PROHIBITED.
2. INSULATE ALL ABOVE GRADE ROOF DRAIN PIPING WITH OWENS CORNING 1" THICK FIBERGLASS PIPE INSULATION WITH WHITE FIRE RETARDANT ASJ JACKET.
3. PROVIDE SIXX4 CHIEF WATER HAMMER ARRESTERS ON ALL PLUMBING FIXTURES SIZED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.L.D. W9201. EQUIVALENT BY JONESPEC, J.R. SMITH, OR WACO.
4. INSTALL TRAPS AT WASTE CONNECTIONS TO ALL FLOOR DRAINS AND OTHER PLUMBING FIXTURES WITHOUT A TRAP INTEGRAL TO THE FIXTURE.
5. INSTALL WATER AND WASTE PIPING BELOW SLAB AND BELOW GRADE ON TOP OF A 6" BED OF PEA GRAVEL, WITH 6" PEA GRAVEL ON SIDES AND TOP OF PIPING.
6. PAINT ALL NATURAL GAS PIPING INSTALLED OUTDOORS WITH TWO COATS OF ALL WEATHER PAINT. COLOR SHALL BE SELECTED BY THE ARCHITECT.
7. INSTALL ALL ROOF PVC, CONDUIT AND DUCTWORK SUPPORTS, CURBS AND PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.
8. SUPPORT PIPING ON ROOF WITH PREMANUFACTURED PIPING SUPPORT EQUIVALENT TO B-LINE C-SERIES; FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT ACCEPTABLE.
9. PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY FABRICATED, 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE SLATE, 1 LB DENSITY INSULATION, WOOD WALKER, ACRYLIC GLAZ THERMOPLASTIC COILER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY PATE, TYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
10. PROVIDE SLEEVES AT PIPE PENETRATIONS OF EXTERIOR WALLS. SEAL PENETRATIONS WEATHERTIGHT.
11. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL PENETRATION DETAILS.
12. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO SPECIAL EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO EQUIPMENT TEMPLATES / DRAWINGS FOR ADDITIONAL INFORMATION.
13. SEAL ALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS MANUAL. AT A MINIMUM, LOW STATIC PRESSURE DUCTS SHALL BE SEALED WITH WATER, SOLVENT OR SILICONE BASED SEALANT IN ACCORDANCE WITH SMACNA DUCT SEAL CLASS C. THE USE OF DUCT TAPE IS STRICTLY PROHIBITED.
14. THERMOSTATS, SENSORS, AND ASSOCIATED WIRING SHALL BE PROVIDED BY HVAC CONTRACTOR. ROUGH-IN SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE ALL THERMOSTATS WITH LABEL INDICATING AREA SERVED.
15. BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
16. PROVIDE HVAC EQUIPMENT WITH A NEW FILTERS DURING CONSTRUCTION AND UPON SUBSTANTIAL COMPLETION.
17. PROVIDE AERO-DYNE OR EQUIVALENT DOUBLE WALL TURNING VANES IN ALL RECTANGULAR ELBOWS.
18. COORDINATE CEILING DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
19. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO UNIT OPENING SIZES FOR ALL HVAC EQUIPMENT.

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR



1/17/2023

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2216-01
SITE # 5603
FACILITY # 7815603018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X2216-01_E-101
DRAWN BY: AKD
CHECKED BY: AKD
DESIGNED BY: AKD

SHEET TITLE:
MECH & ELEC
SYMBOLS &
GENERAL NOTES

SHEET NUMBER:

ME-101

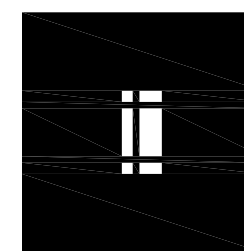
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Missouri State Certificate of Authority #2005026903
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2216-01
SITE # 5603
FACILITY # 78156030 18

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: JANUARY 17, 2023

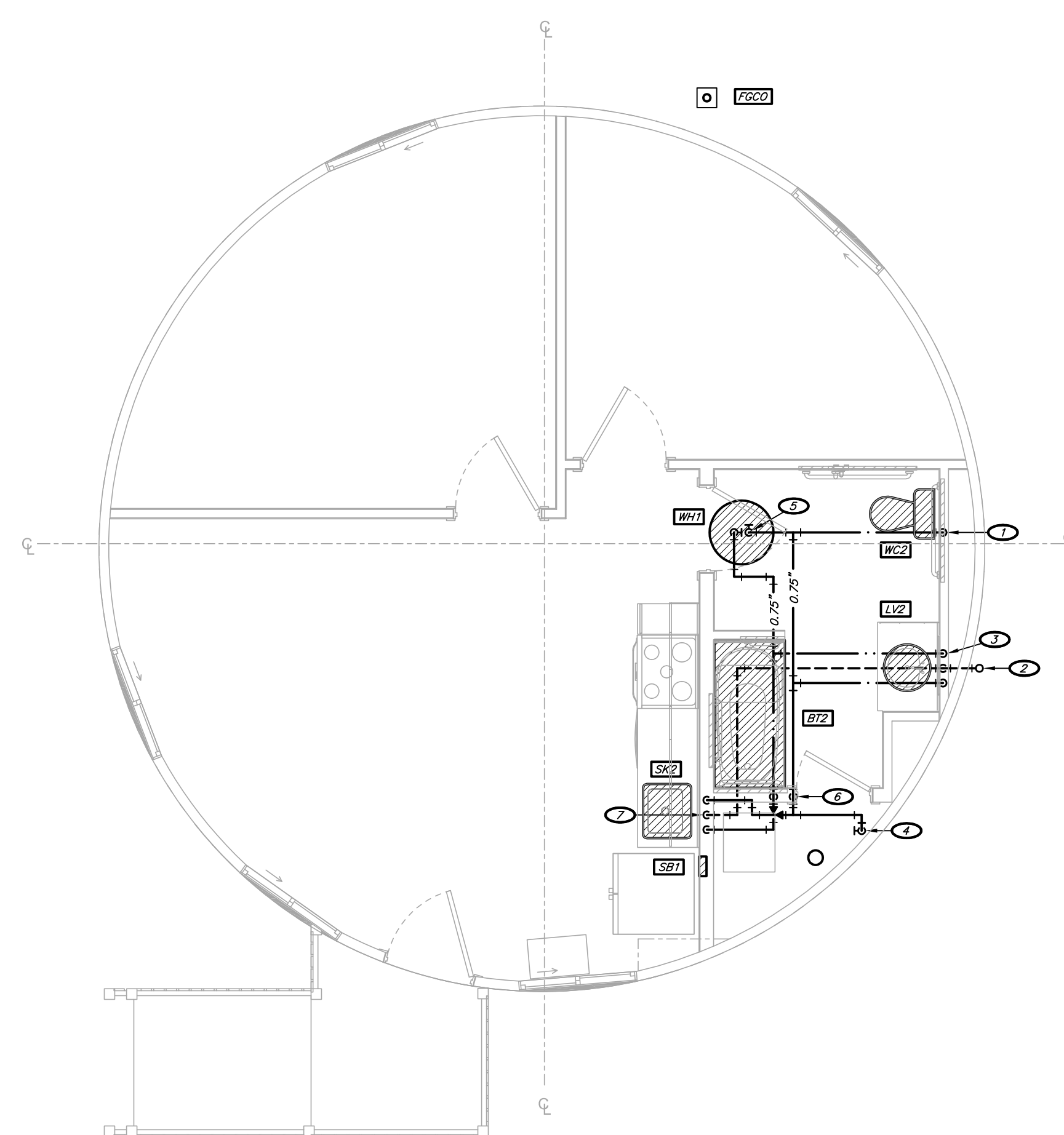
CAD DWG FILE: X2216-01 E-101
DRAWN BY: AKD
CHECKED BY: AKD
DESIGNED BY: AKD

SHEET TITLE:
PLUMBING
PLANS

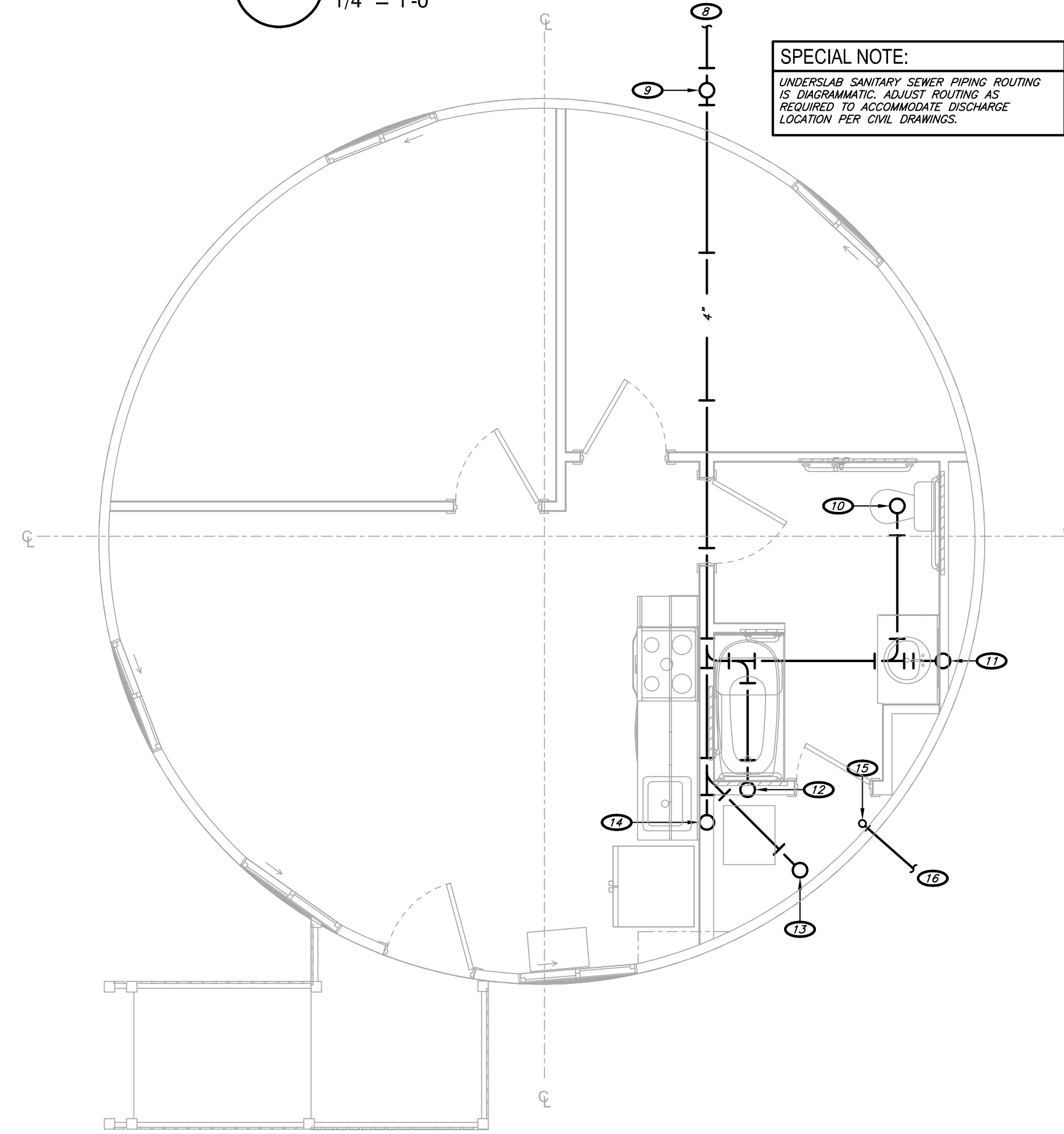
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29 OF 32 SHEETS

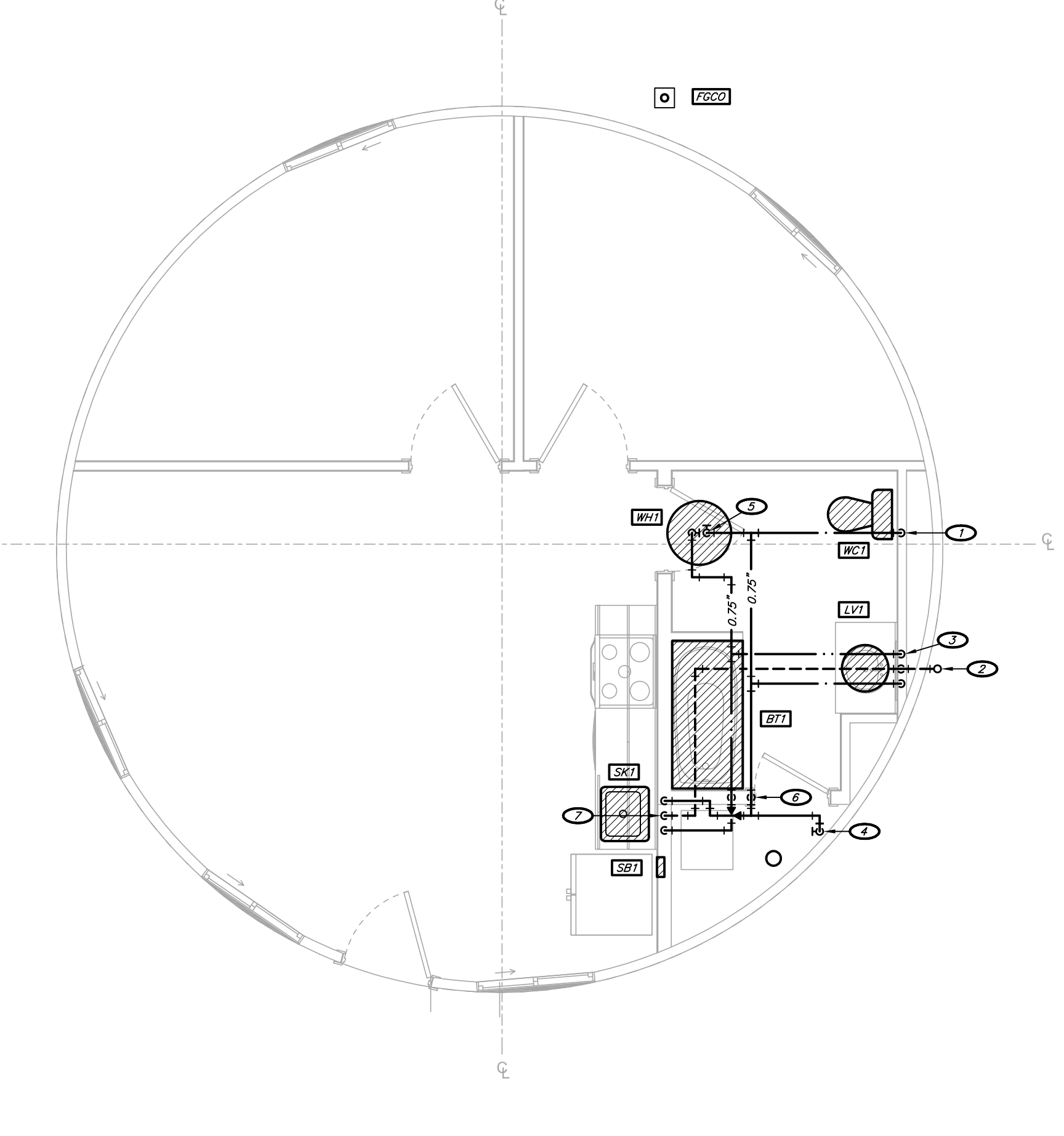


4 ADA UNIT
PLUMBING PLAN
1/4" = 1'-0"

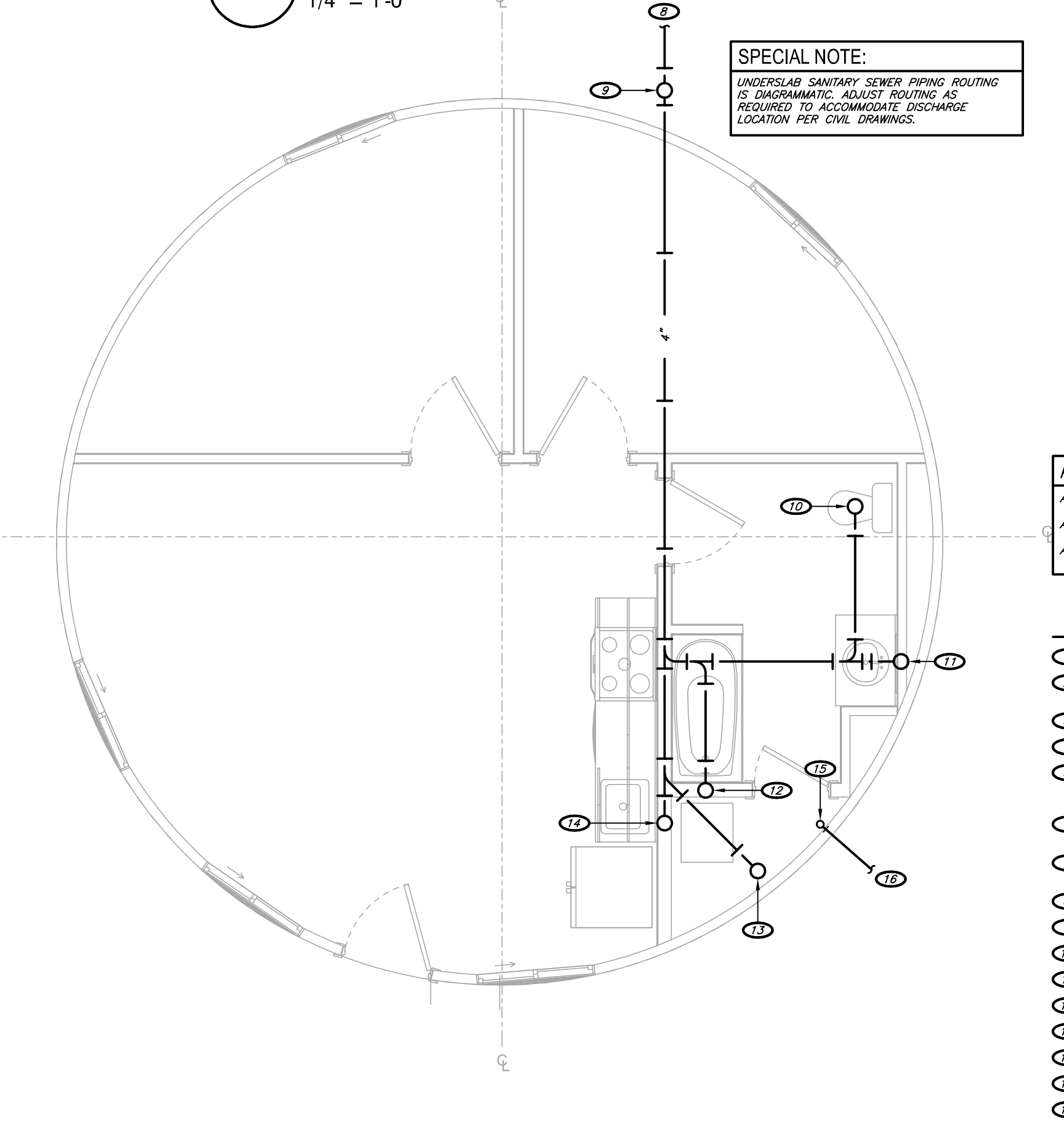


2 ADA UNIT
UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"

SPECIAL NOTE:
UNDERSLAB SANITARY SEWER PIPING ROUTING IS DIAGNAMATIC. ADJUST ROUTING AS REQUIRED TO ACCOMMODATE DISCHARGE LOCATION PER CIVIL DRAWINGS.



2 STANDARD UNIT
PLUMBING PLAN
1/4" = 1'-0"



1 STANDARD UNIT
UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"

SPECIAL NOTE:
UNDERSLAB SANITARY SEWER PIPING ROUTING IS DIAGNAMATIC. ADJUST ROUTING AS REQUIRED TO ACCOMMODATE DISCHARGE LOCATION PER CIVIL DRAWINGS.

ALTERNATE BID SPECIAL NOTES:
ALTERNATE BID #1 SHALL INCLUDE UNDERGROUND/UNDERSLAB PLUMBING WORK ONLY.
ALTERNATE BID #2: SHALL INCLUDE NO PLUMBING WORK.
ALTERNATE BID #3: SHALL INCLUDE ALL ALL ABOVE GROUND/ABOVE SLAB PLUMBING WORK.

- KEYNOTES:
- 1 0.5" COLD WATER DOWN TO WATER CLOSET.
 - 2 1" VENT TERMINATION, COORDINATE FOR HORIZONTAL ROUTING OF VENT PIPING THROUGH EXTERIOR WALL OF YURT.
 - 3 0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO LAVATORY.
 - 4 0.75" DOMESTIC WATER SERVICE DOWN WITH SERVICE SHUT-OFF VALVE AT 18" AFF.
 - 5 0.75" COLD AND HOT WATER DOWN TO WATER HEATER. INSTALL WATER HEATER ABOVE BATHROOM. WITH ACCESS PER ARCHITECTURAL DRAWINGS. PROVIDE DRAIN PAN WITH DRAIN PIPING ROUTED TO HUB DRAIN AT MECHANICAL CLOSET.
 - 6 0.5" COLD AND HOT WATER DOWN TO SHOWER VALVE. EXTEND PIPING TO TUB SPOUT AND SHOWER HEAD.
 - 7 0.5" COLD AND HOT WATER, 1.5" VENT DOWN TO SINK. TEE 0.5" COLD WATER TO SUPPLY SINK.
 - 8 3" SANITARY SEWER. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 9 3" WASTE UP TO FINISH GRADE CLEANOUT.
 - 10 3" WASTE UP TO WATER CLOSET.
 - 11 2" WASTE UP TO LAVATORY.
 - 12 2" WASTE UP TO BATHUB.
 - 13 2" TRAPPED WASTE UP TO HUB DRAIN.
 - 14 2" WASTE UP TO SINK.
 - 15 0.75" DOMESTIC WATER SERVICE UP.
 - 16 0.75" DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

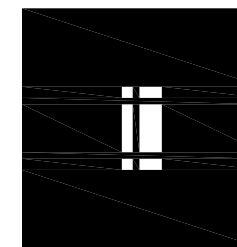
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PROJECT # X2216-01
SITE # 5603
FACILITY # 781560318

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CAD DWG FILE: X2216-01_E-101
DRAWN BY: AKD
CHECKED BY: AKD
DESIGNED BY: AKD

SHEET TITLE:
HVAC PLANS

SHEET NUMBER:

M-101

30 OF 32 SHEETS

PIPE INSULATION SCHEDULE						
SERVICE	SIZE	TYPE	INSULATION THICKNESS	LOCATION	NOTES	
CONDENSATE PIPING	0.5" - 1.25"	ELASTOMERIC	0.5"	INTERIOR	2.5	
DOMESTIC COLD WATER	0.5" - 1.25"	ELASTOMERIC	0.5"	INTERIOR	1.5	
DOMESTIC HOT WATER/RE-CIRCULATION	0.5" - 1.25"	ELASTOMERIC	1"	INTERIOR	1	
REFRIGERANT SUCTON LINES	ALL SIZES	ELASTOMERIC	0.5"	ALL	1.5	
REFRIGERANT HOT GAS/CONDENSER	ALL SIZES	ELASTOMERIC	0.75"	INTERIOR	1.4.8	

NOTES:
1. FLEXIBLE ELASTOMERIC FOAM/PLASTIC, PRE-FORMED, ASTM C534, TYPE I, "X" = 0.28 AT 75 DEG. FLEX/RATED. ARMSTRONG AF ARMALFLEX SHEET, AEROCCEL EDPM, K-FLEX L5 OR APPROVED EQUAL.
2. RIGID INSULATION WRAP (1.5 LB) W/ FOL. SDR38K/RT FACING, PRE-FORMED, ASTM C534, CLASS 1, "X" = 0.22 AT 75 DEG. FLEX/RATED. ARMOVALS CORNING, CERTANTENED OR APPROVED EQUAL.
3. FLEXIBLE ELASTOMERIC FOAM/PLASTIC, SHEET MATERIAL, ASTM C534, TYPE I, "X" = 0.28 AT 75 DEG. FLEX/RATED. ARMSTRONG AF ARMALFLEX SHEET, AEROCCEL EDPM SHEET, K-FLEX L5 SHEET OR APPROVED EQUAL.
4. VERIFY WITH EQUIPMENT MANUFACTURERS INSTALLATION MANUAL FOR ANY ADDITIONAL INSULATION REQUIREMENTS ABOVE AS INDICATED ON THIS SCHEDULE.
5. INSULATION SHALL COVER ALL JOINTS, FITTINGS, ETC. AND SHALL BE TIGHT FITTING.
6. PIPING LOCATED OUTDOORS SHALL BE PROVIDED WITH A SMOOTH ALUMINUM JACKET WITH SEAM ON TOPSIDE OF PIPE AT 2' OR 10' O'CLOCK POSITION OF HORIZONTAL RUNS. FITTINGS SHALL HAVE FORMED ALUMINUM COVERS.

PLUMBING FIXTURE SCHEDULE												
MARK	DESCRIPTION	MANUF.	MODEL #	DESCRIPTION / ACCESSORIES	PIPING CONNECTION SIZES				NOTES & ACCESSORIES	EQUIVALENT MANUFACTURERS		
					COLD	HOT	DRAIN	VENT				
B71	BATH TUB	STERLING	715010-0	KOHLER CFS 4800CGR TUBSHOWER FRM WITH 40311 ROUGH VALVE, ALL FINISHES SHALL BE POLISHED CHROME DOOR, CURTAIN BY OWNER	0.5"	0.5"	2"	1.5"	1.8, 14, 15, 17, 18	AMERICAN STANDARD, KOHLER, IDEX		
B72	ADA BATH TUB	STERLING	726015-0	KOHLER CFS 4800CGR TUBSHOWER FRM WITH 40311 ROUGH VALVE, MOULDED GIB TRANSFER VALVE TRIM AND MODULATED TRANSFER ROUGH VALVE, DFG 4024 HANDHELD SHOWER WITH GRABBAR BAR, ALL FINISHES SHALL BE POLISHED CHROME, NO CURTAIN, CURTAIN BY OWNER	0.5"	0.5"	2"	1.5"	1.8, 14, 15, 17, 18	AMERICAN STANDARD, KOHLER, IDEX		
FFC0	FINISH FLOOR CLEANOUT	ZURN	ZN140D	CARPET FLANGE WHERE REQUIRED	-	-	SEE PLAN	-	13	JOSAM, WADE, JR, SMITH, SOKOL CHIEF, MIFAB		
FGC0	FINISH GRADE CLEANOUT	ZURN	ZN140D	-	-	-	SEE PLAN	-	-	JOSAM, WADE, JR, SMITH, SOKOL CHIEF, MIFAB		
FWC0	FINISH WALL CLEANOUT	ZURN	Z1448	STAINLESS STEEL COVER	-	-	SEE PLAN	-	1.16	JAY R SMITH, WADE SOKOL CHIEF, MIFAB		
S81	ICE-MAKER SUPPLY BOX	GRV GRAY	AB9702	QUARTER TURN VALVE, W/10" TO DUAL CHECK BACKFLOW PREVENTER, FLEXIBLE SUPPLY	50"	-	-	-	1.19	GATEY		
LV1	UNDERMOUNT LAVATORY	KOHLER	K-2000	DELTA SDR-MP/OST FAUCET / TRIM, STOPPER, SUPPLY AND STOP VALVES, FINISH SHALL BE POLISHED CHROME	0.5"	0.5"	2"	1.5"	1.3, 4.5, 7.8, 15	AMERICAN STANDARD, KOHLER, IDEX		
LV2	ADA UNDERMOUNT LAVATORY	KOHLER	K-2000	DELTA SDR-MP/OST FAUCET / TRIM, STOPPER, SUPPLY AND STOP VALVES, FINISH SHALL BE POLISHED CHROME	0.5"	0.5"	2"	1.5"	1.3, 4.5, 7.8, 15	AMERICAN STANDARD, KOHLER, IDEX		
SK1	SINGLE COMPARTMENT DUAL MOUNT SINK	ELKAY	ECT0R52529190	MOEN TRIS FULL DUTY FAUCET IN POLISHED CHROME FINISH, SUPPLY AND STOP VALVES, PROVIDE HAMMER ARMSTOP FOR DRINKWASHER SUPPLY LINE CONFORMING TO ASSE 1110	0.5"	0.5"	2"	1.5"	1.3, 4.7, 8.10	JUST, DELTA, KOHLER		
SK2	ADA SINGLE COMPARTMENT DUAL MOUNT SINK	ELKAY	ECT0R52529190	MOEN TRIS FULL DUTY FAUCET IN POLISHED CHROME FINISH, SUPPLY AND STOP VALVES, PROVIDE HAMMER ARMSTOP FOR DRINKWASHER SUPPLY LINE CONFORMING TO ASSE 1110	0.5"	0.5"	2"	1.5"	1.3, 4.7, 8.10	JUST, DELTA, KOHLER		
WC1	FLUSH TANK WATER CLOSET	AMERICAN STANDARD	747AA107SC	WHITE, 1-28-GPI, ELONGATED FRONT, SOFT CLOSE, CLOSED FRONT, PLASTIC SEAT WITH LID	0.5"	-	4"	SEE PLAN	4.9, 15.18	KOHLER, TOTO, ZURN		
WC2	ADA FLUSH TANK WATER CLOSET	AMERICAN STANDARD	747AA107SC	WHITE, 1-28-GPI, ELONGATED FRONT, SOFT CLOSE, CLOSED FRONT, PLASTIC SEAT WITH LID	0.5"	-	4"	SEE PLAN	4.8, 15.18	KOHLER, TOTO, ZURN		

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
2. PROVIDE TUBERO HAND LAY-GUARD INSULATION AT ALL PUBLIC RESTROOMS AND ADA UNITS. COLOR SHALL BE SELECTED BY THE ARCHITECT.
3. PROVIDE PVC WASTE, TRAP/CLEAN AND TRAP AS REQUIRED. PROVIDE RELATED FITTINGS ON AT WALL PENETRATIONS.
4. PROVIDE SUPPLIES WITH CHROME PLATED BRASS ANGLE COMPRESSION VALVES AND CHROME PLATED RETURN TUBES. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.
5. PROVIDE DRAIN WITH PREFABRICATED GRID STRAINER AT PUBLIC AREAS.
6. INSTALL ASSE 105 MOVING VALVE ON HOT WATER SUPPLY TO LAUNDRY FAUCET. SET AT 1/10 DEER. MINIMUM.
7. PROVIDE SINK WITH FAUCET / HOLE OPENINGS TO MATCH FAUCET.
8. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURERS FOR ADA COMPLIANCE.
9. ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE.
10. PROVIDE SINK WITH FINISHING BRACKET(S) 10" W/ 1/2" HODD WASTE GRINDER.
11. PROVIDE WITH STRAINER, AIR GAP FITTING AND DRAIN PIPING TO LOOK DRAIN, PIT, OR MOP SINK.
12. PROVIDE STRUCTURAL STEEL CARRIER AS RECOMMENDED BY MANUFACTURER FOR SUPPORT FROM STRUCTURE.
13. INSTALL FLUSH WITH SLAB AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
14. FIELD COORDINATE VERIFY FRAMING ROUGH-IN DIMENSIONS WITH ASSOCIATED CONTRACTOR BEFORE ORDERING.
15. PROVIDE PROTECTION FOR FUTURE DURING CONSTRUCTION. UNITS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED.
16. PROVIDE FIRE-RATED ACCESS PANEL IN JENL OR STAINLESS STEEL COVER WHERE CLEANOUT IS INSTALLED IN FIRE-RATED WALL.
17. PROVIDE SUPPORT FROM STRUCTURE AS RECOMMENDED BY MANUFACTURER.
18. PROVIDE RIGHT OR LEFT HAND CONFIGURATION AS REQUIRED BY PLAN. REFER TO ARCHITECTURAL DRAWINGS.
19. 60.6 WATER HAMMER: THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER. A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.

SPECIAL NOTE:
ALL MANUFACTURERS LISTED FOR PRODUCTS, EQUIPMENT, ETC. SHALL BE CONSIDERED BASIS OF DESIGN. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR LISTING OF PRE-APPROVED EQUIVALENT MANUFACTURERS. SUBMIT OTHER MANUFACTURER'S FOR APPROVAL PRIOR TO BID.

ALTERNATE BID SPECIAL NOTES:
ALTERNATE BID #1 SHALL INCLUDE NO HVAC WORK.
ALTERNATE BID #2 SHALL INCLUDE NO HVAC WORK.
ALTERNATE BID #3 SHALL INCLUDE ALL HVAC WORK.

KEYNOTES:
1. 4" EXHAUST DUCT TO WALL CAP, COORDINATE FOR HORIZONTAL ROUTING OF EXHAUST DUCT THROUGH EXTERIOR WALL OF YURT.
2. INSTALL RETURN GRILLE AS HIGH AS POSSIBLE.
3. 24x10 SUPPLY DUCT DOWN TRANSITION TO AIR HANDLING UNIT OPENING. INSTALL UNIT ON FULL-SIZE RETURN PLENUM WITH SIDE OPENING.
4. GALVANIZED DOUBLE-WALL SPIRAL DUCTWORK WITH PERFORATED INTERIOR LINING AND PAINT GRIP FINISH. COORDINATE FOR FIELD PAINTING IN COLOR SELECTED BY ARCHITECT.
5. REFRIGERANT LINES TO AIR HANDLING UNIT, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR PENETRATION DETAIL.
7. PROVIDE PAINTED TUBE STEEL, WALL-MOUNTED DUCT SUPPORT. DETAILING SUBJECT TO APPROVAL BY ARCHITECT. COLOR SELECTED BY ARCHITECT TO MATCH DUCTWORK.

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2 ADA UNIT HVAC PLAN
1/4" = 1'-0"

1 STANDARD UNIT HVAC PLAN
1/4" = 1'-0"

FAN SCHEDULE											
MARK	SERVICE	MANUFACTURER	MODEL #	CFM	ESP (IN. W.C.)	MOUNTING	FINISH	DAMPEN	VOLTAGE/PHASE	MOTOR HP/VA/TS	NOTES & ACCESSORIES
B71	BATHROOM	COOK	GC-145	75	0.25"	CEILING	WHITE	GBD	240V	24 W	1.2, 10.11, 12, 13, 14

NOTES & ACCESSORIES:
1. FACTORY MOUNTED DISCONNECTING MEANS.
2. PROVIDE MULTI-SPEED (WITH FINE DELAY) MODULE.
3. PROVIDE 1" ABOVE TOP OF ROOF SURFACE INSULATED ROOF CURB WITH HINGED BASE. SLOPE AS REQUIRED.
4. ALUMINUM CEILING GRILLE.
5. SEE KITCHEN EQUIPMENT DRAWINGS FOR ALL REQUIREMENTS.
6. DEMAND CONTROL VENTILATION VIA HOOD CONTROL PANEL. VFD INTEGRAL TO HOOD. SEE KITCHEN EQUIPMENT SUBMITTALS FOR ALL REQUIREMENTS.
7. LORANIZED FINISH OR APPROVED EQUAL.
8. INCLUDE SPRING VIBRATION ISOLATOR HANGERS.
9. MOTORIZED BACKDRAFT DAMPER WITH MAX LEAK RATE OF 20 CFM/P12 AT 1" W.G. PER AMCA 6000.
10. PROVIDE WALL/SOFT FIT VENT CAP OR ROOF JACK. REFER TO PLANS. PAINT TO MATCH EXTERIOR WALL/SOFTROOF COLOR.
11. PROVIDE HOUSING WITH CEILING INDOOR DAMPER.
12. PROVIDE FLEXIBLE DUCT CONNECTIONS.
13. ALL SANS SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
14. FAN SHALL ACTIVATE WHEN LIGHT SWITCH IS ON.
15. PROVIDE INSULATED ROOF EQUIPMENT RAIS.
16. PROVIDE ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE INSTALLATION INCLUDING BACKDRAFT DAMPER.
17. REFER TO ARCHITECTURAL ENLARGED UNIT PLANS FOR LOCATION ON PLANS.

AIR DEVICE SCHEDULE											
MARK	MANUFACTURER	MODEL #	DUCT CONNECTION SIZE	SERVICE	MODULE SIZE	FRAME	FINISH	DAMPEN	MAX IN. THROW (PT)	DELTA P (STATIC)	NOTES
S1	KRIEGER	80	12x6 0-300 CFM	SUPPLY	-	SURFACE	BY ARCH	OBD	30	15	0.1"
R1	KRIEGER	S5DMGR	12x6 0-300 CFM	SUPPLY	-	SURFACE	BY ARCH	OBD	30	15	0.1"
S2	KRIEGER	S80	22x22 1,800 CFM	RETURN	-	SURFACE	BY ARCH	-	30	-	0.1"

NOTES:
1. PROVIDE BORDERS FOR SURFACE MOUNT INSTALLATION WHEN INSTALLED IN HARD CEILING WHICH ALLOW DIFFUSER/GRILLE TO BE LIFTED UP FOR ABOVE CEILING ACCESS.
2. GRILLE/DIFFUSER SHALL MATCH ADJACENT FINISHES UNLESS NOTED OTHERWISE. COORDINATE TO PAINT DIFFUSER AS REQUIRED.
3. PROVIDE CEILING MOUNTING TYPE FIRE DAMPER WHERE INSTALLED AT CEILING MEMBRANE OF WATED CEILING ASSEMBLY.
4. WHERE BALANCE DAMPERS ARE INSTALLED ABOVE HARD CEILINGS AND CANNOT BE ACCESSIBLE THROUGH THE DIFFUSER/GRILLE, PROVIDE "BLOWN" 270-301 EYEBOLT CABLE CONTROL KIT AND DAMPERS WITH 7" COVER PLATE BY YOUNG REGULATOR COMPANY. COORDINATE EXACT CEILING LOCATION FOR OPERATOR/COVER PLATE WITH ARCHITECT BEFORE INSTALLATION.
5. PLASTER FRAME FOR DRYWALL INSTALLATION.

DUCT INSULATION SCHEDULE					
SYSTEM	SERVICE	CONFIGURATION	INSULATION THICKNESS	LOCATION	NOTES
AH/SPLIT SYSTEM	SUPPLY MAINBRANCHES	RECTANGULAR/ROUND	1" LINER (FIRST 10 FEET FROM OUTLET) THEN 1.5" WRAP (R-6)	ALL CONCEALED INDOOR SPACES EXCEPT ATTIC	1
-	SUPPLY MAINBRANCHES	RECTANGULAR/ROUND	1" LINER (R-4)	ALL EXPOSED INDOOR SPACES EXCEPT ATTIC	2.4
-	SUPPLY MAINBRANCHES	RECTANGULAR/ROUND	2" WRAP (R-8)	ATTIC SPACES	1.7
-	SUPPLY MAINBRANCHES	RECTANGULAR	2" BOARD (R-8)	ALL OUTDOOR SPACES	6.6
-	RETURN MAINBRANCHES	RECTANGULAR/ROUND	2" WRAP (R-8)	ATTIC SPACES	1.7
-	OUTDOOR MAINBRANCHES	RECTANGULAR/ROUND	2" WRAP (R-8)	ALL INDOOR ATTIC SPACES	1
-	EXHAUST DUCT	RECTANGULAR/ROUND	4" NONE	ALL INDOOR SPACES EXCEPT ATTIC	1
-	EXHAUST MAINBRANCHES	RECTANGULAR/ROUND	2" WRAP (R-8)	ATTICE SPACES	1.7

NOTES:
1. EXTERNAL FIBERGLASS INSULATION WRAP (1.5 LB) W/ FOL. SDR38K/RT FACING.
2. INTERNAL RECTANGULAR DUCT LINER (0.6 LB) WITH DUST/DIRT/MICROBIAL RESISTANT COATING ("QUIET RC," "SILACOUSTIC RC," "TOUGHGARD RC," "AP ARMALFLEX" OR APPROVED EQUAL).
3. INTERNAL SPIRAL DUCT LINER (2.1 LB) INSULATION WITH PERFORATED INNER LINING AND DUST/DIRT/MICROBIAL RESISTANT COATING ("QUIET RC," "SILACOUSTIC PLUS," "TOUGHGARD G L TR," "AP SPRAIN-FLEX" OR APPROVED EQUAL).
4. VERIFY WITH ARCHITECT WHERE EXPOSED DUCT SHALL BE PAINTED. PAINTED EXPOSED DUCT SHALL HAVE PAINT GRIP FINISH. NON-PAINTED EXPOSED DUCT SHALL BE CLEANED OF ALL LABELS AND COIL.
5. EXTERNAL INSULATION BOARD (1.6 LB) W/ FOL. SDR38K/RT FACING.
6. PROVIDE POLYIMIDES "ALUMINUM" DUCT HEATERS PROOF CLADDING APPLIED TO EXTERIOR DUCT INSULATION SURFACE.
7. EXTERNAL FIBERGLASS INSULATION WRAP (1.5 LB) W/ FOL. SDR38K/RT FACING.

GENERAL NOTES:
1. ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS SIZED ON PLANS TO EXCLUDE THE PROPER THICKNESS OF INSULATION AND HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION AS INDICATED IN THE SCHEDULE ABOVE.
2. APPROVED INSULATION MANUFACTURERS: COMAU, OWENS CORNING, JOHNS-MANSVILLE, CERTANTENED, ARMALFLEX, MINIMUM 4-4 INCH, NOT TO EXCEED 4550 FIBERGLASS DEVELOPMENT TESTING.

AIR HANDLER UNIT SCHEDULE											
MARK	MANUFACTURER	MODEL #	SA (CFM)	OA (CFM)	EXTERNAL STATIC	ELEC HEAT (KW/STAGES)	VOLTAGE/PHASE	MCA	MOOP	NOTES	
AH1	DAKIN	DV50FTCDH	1600	248	0.5"	107	240V	58.5	75	1, 2, 3	

AIR HANDLER NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES WET COIL, EXCLUDES FILTER LOSS.
2. PROVIDE FRONT ACCESSIBLE FILTER RACK AND 2" FILTER EQUAL TO AIRN 3033 WITH MERV 7 MINIMUM RATING.
3. PROVIDE SINGLE POINT (OR MULTIPLE POINT WHERE INDICATED) POWER CONNECTION WITH CIRCUIT BREAKER DISCONNECTING MEANS.

COIL / HEAT PUMP UNIT SCHEDULE											
MARK	MANUFACTURER	EMP CODE MODEL #	COND UNIT MODEL #	ENTERING AIR DBWB	SENSEIBLE MBH	TOTAL MBH	VOLTAGE/PHASE	MCA	MOOP	NOTES	
HP1	DAKIN	WH49	DZ7E7D48YC	72.63	35.1	42.3	240V	28.5	40	1, 2, 3	

1. PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER OR GREEN LINE SET ROUTING.
3. PROVIDE ENERGY STAR RATED, 7-DAY PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR WHERE INDICATED.

WATER HEATER SCHEDULE											
MARK	MANUFACTURER	MODEL #	TYPE	GALLON CAPACITY	RECOVERY (GPH @ 70 F RECI)	KW	MCA	VOLTAGE/PHASE	NOTES / ACCESSORIES		
WH1	BRADFORD WHITE	LE145L3	ELEC	40	18	4.5	21.6	240V	1, 2, 3		

NOTES:
1. THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL S74.
2. DRAIN VALVE WITH THREADED HOSE CONNECTION.
3. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
4. PROVIDE WALL SHEET/BROCKET FOR FULL HEIGHT OF WATER HEATER.

PIPING MATERIAL SCHEDULE																
SYSTEM	SIZE	TYPE	SCHEDULE	GRADE	PIPING			FITTINGS			MAXIMUM WORKING PRESSURE		FIELD TEST		NOTES	
					ASTM / ANSI	MATERIAL	TYPE	MATERIAL	TYPE	TEMP (DEG F)	PRESSURE (PSI)	TEMP (DEG F)	PRESSURE (PSI)	TIME (HOURS)		
CONDENSATE DRAIN ABOVE GRADE	ALL	M	-	-	888	COPPER	DR / SJ	50 FT	40-70	50 FT	1	-	-	-	-	-
DOMESTIC WATER ABOVE GRADE	0.5" - 3"	PEX	-	-	5277	PEX	BRNZE	MJ	120	40-160	100	1	7	-	-	-
DOMESTIC WATER SERVICE BELOW GRADE	ALL	PVC	-	-	AWMA C900	PVC	CP	SJ	150	50-190	200	2	6	-	-	-
REFRIGERANT PIPING	ALL	ACR	-	-	0280	CP	CP	SJ	150	40-180	200	4	-	-	-	-
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	DR / SW	10 FT	50-190	10 FT	1	1	1	-	-	-
SANITARY WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	DR / SW	10 FT	50-190	10 FT	1	1.3	1.3	-	-	-
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	888	COPPER	COPPER	DR / SJ	50 FT	40-70	10 FT	1	-	-	-	-

NOTES:
1. THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.
2. THE USE OF OPEX AND PEX BUTYLENE PIPING IS STRICTLY PROHIBITED.
3. SANITARY WASTE AND VENT PIPING LOCATED WITHIN RETURN AIR FLEXIBLES SHALL BE CAST WOOD OR SHALL BE ENCLOSED IN A GYPSUM BOARD SOFFIT.
4. NATURAL GAS PIPING RE-INSTALLED IN RETURN AIR FLEXIBLES AND CONCEALED SPACES SHALL HAVE APPROVED FITTINGS ONLY. VALVES, DRAINS, THREADED FITTINGS, ETC. ARE NOT PERMITTED.
5. NATURAL GAS INSTALLED OUTSIDE SHALL BE PAINTED WITH TWO COATS OF UV RESISTANT ENAMEL PAINT. COLOR TO MATCH WALL COLOR OR EXTERIOR WALL VERTICAL RISER AND YELLOW ON THE ROOF.
6. VERIFY PAINT COLOR WITH ARCHITECT BEFORE INSTALLATION.
7. PROVIDE PIPING MATERIAL PER LOCAL WATER COMPANY REQUIREMENTS IF DIFFERENT THAN SCHEDULED.
8. PROVIDE FULL-PORT BRASS FITTINGS.
9. PROVIDE INSULATED RADIANT HEATING COMPRESSED AIR PIPING EQUIVALENT.

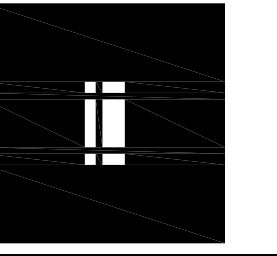
APPROVED PIPE & FITTING MANUFACTURERS:
CAST IRON - CHAMROBE, TYLER, CENTRAL FOUNDRY OR PRE-BID APPROVED EQUAL.
COPPER - CENTRI, CHASE, MUELLER, REVIRE, CORNER OR PRE-BID APPROVED EQUAL.
PEX - WATTS, VEGA, OR PRE-BID APPROVED EQUAL.
PVC (SOLID) - CHARLOTTE, TYLER, CHEMPOOL, OR PRE-BID APPROVED EQUAL. PVC (PERFORATED) - CHARLOTTE, TYLER, ADS 3000 HDPE OR PRE-BID APPROVED EQUAL.
CARBON STEEL - ANNCO, YOUNGSTOWN, UNITED STATES STEEL, OR PRE-BID APPROVED EQUAL. GROOVED FITTINGS - VITACALC, GRUPOK OR PRE-BID APPROVED EQUAL.

ABBREVIATIONS:
BS - BELL AND SPIGOT
C - CAST IRON
CS - CARBON STEEL
CW - CONTINUOUS WELD
DR - DUCTILE IRON
DR - DRAMMAGE FITTING
DHW - DRAINAGE WASTE AND VENT
HDPE - HIGH DENSITY POLYETHYLENE
ME - MECHANICAL JOINT
MS - MESH REINFORCED
CSST - CORRUGATED STAINLESS STEEL
HD HUB
SE - 185-TON ANTIWELD SOLDER JOINT
SS - STANDARD STRENGTH / SERVICE WEIGHT
SW - SOLWELD



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
MISSOURI STATE PARKS

TABLE ROCK STATE PARK
REPLACE 5 BASIC SITES
WITH 5 PREMIUM YURTS

TABLE ROCK STATE PARK
CAMPGROUND #2
5272 STATE HWY 165
BRANSON, MISSOURI 65616

PROJECT # X2216-01
SITE # 5603
FACILITY # 78156030 18

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: JANUARY 17, 2023

CAD DWG FILE: X2216-01_E-101
DRAWN BY: AKD
CHECKED BY: AKD
DESIGNED BY: AKD

SHEET TITLE:
ELECTRICAL
PLANS

SHEET NUMBER:

E-101

31 OF 32 SHEETS

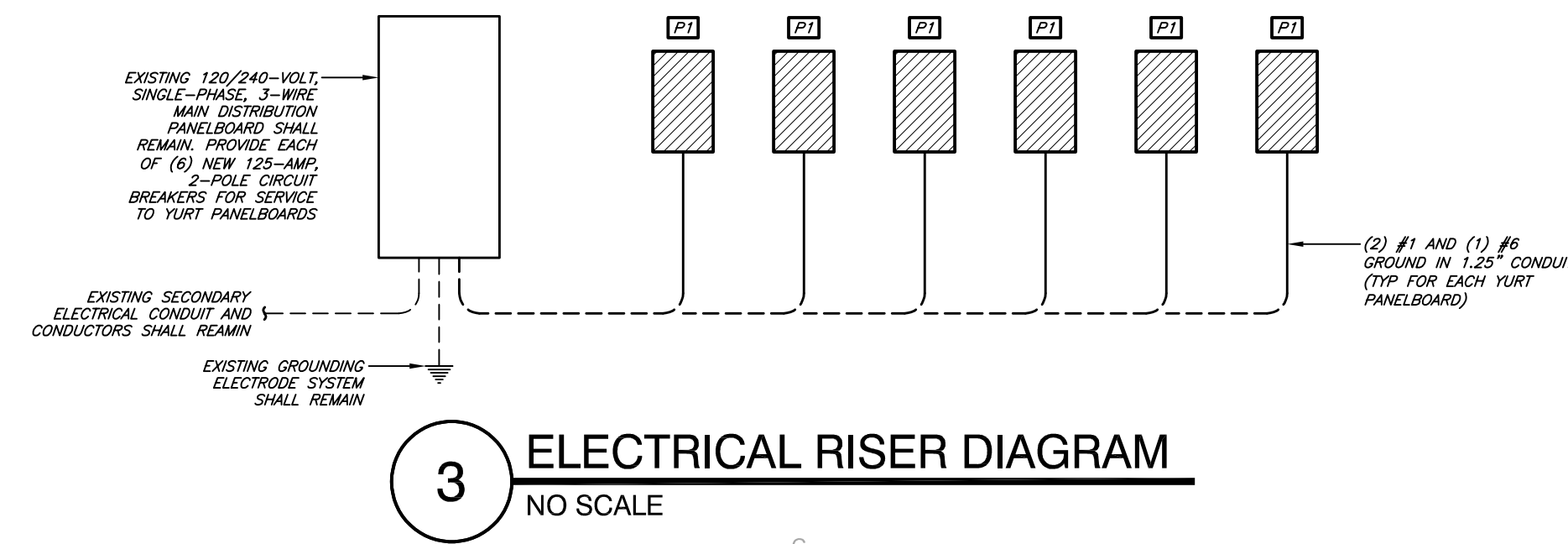
SPECIAL NOTE:

ALL MANUFACTURER'S LISTED FOR PRODUCTS, EQUIPMENT, ETC. SHALL BE CONSIDERED BASIS OF DESIGN. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR LISTING OF PRE-APPROVED EQUIVALENT MANUFACTURERS. SUBMIT OTHER MANUFACTURER'S FOR APPROVAL PRIOR TO BID.

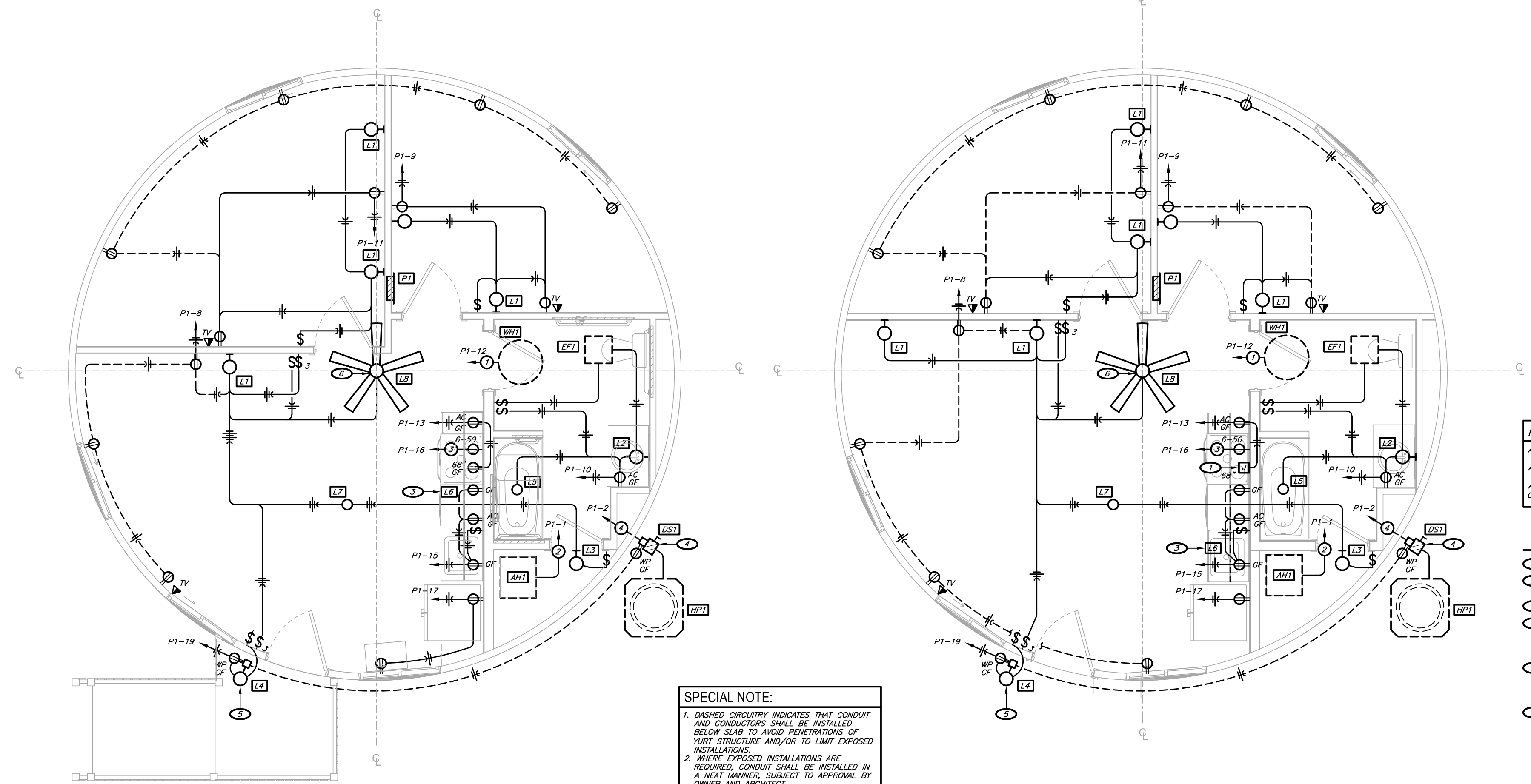
MARK	EQUIPMENT SERVED	LOAD	SWITCH		OVERCURRENT PROTECTION		NEMA ENCLOSURE	NOTES & ACCESS
			VOLTAGE	DUTY	TYPE	TRIP		
DSA	HEAT PUMP/HPA	208	GD	60	2	NP		

PANELBOARD SCHEDULE									
VOLTAGE:		POLES:		MOUNTING:		ENCLOSURE:		LOCATION:	
120/208		16		FLUSH		NEMA 1		BEDROOM	
PHASE / WIRE: 1 / 3		KVA/C AMPS (RMS): 10		FED FROM: MDP1		MANUFACTURER: HOMELINE		SQUARE D	
AMPS: 100		CH FL		CL GR. TYP		MODEL:		HOMELINE	

LIGHTING FIXTURE SCHEDULE										
MARK	MANUFACTURER	MODEL #	FINISH	MOUNTING	LAMPS		FIXTURE	VOLTAGE	APPROVED MANUFACTURERS	NOTES
					CODE	QTY				
L1	MAXIM LIGHTING	52126WTK	BLACK	SURFACE	LED	WITH FIXTURE	- 2R 120	120	SUBMIT FOR APPROVAL	-
L2	MAXIM LIGHTING	5300BK	BLACK	SURFACE	LED	WITH FIXTURE	- 20 120	120	SUBMIT FOR APPROVAL	-
L3	MAXIM LIGHTING	52125WTK	BLACK	SURFACE	LED	WITH FIXTURE	- 15 120	120	SUBMIT FOR APPROVAL	-
L4	MAXIM LIGHTING	86179BK	BLACK	SURFACE	LED	WITH FIXTURE	- 6 120	120	SUBMIT FOR APPROVAL	-
L5	HALO	5806S-WH	WHITE	RECESSED	LED	WITH FIXTURE	- 10 120	120	SUBMIT FOR APPROVAL	-
L6	MAXIM LIGHTING	8804AL-HARD-WIRED DRIVER	WHITE	UNDER CABINET	LED	WITH FIXTURE	- 20 120	120	SUBMIT FOR APPROVAL	-
L7	TRID LIGHTING	F7644	BLACK	PENDANT	LED	WITH FIXTURE	- 15 120	120	SUBMIT FOR APPROVAL	-
L8	MINKAIRE	F833-BK	BLACK	PENDANT	-	-	- 75 120	120	SUBMIT FOR APPROVAL	-



3 ELECTRICAL RISER DIAGRAM
NO SCALE



2 ADA UNIT ELECTRICAL PLAN
1/4" = 1'-0"

1 STANDARD UNIT ELECTRICAL PLAN
1/4" = 1'-0"

SPECIAL NOTE:
1. DASHED CIRCULARITY INDICATES THAT CONDUIT AND CONDUCTORS SHALL BE INSTALLED BELOW SLAB TO AVOID PENETRATIONS OF YURT STRUCTURE AND/OR TO LIMIT EXPOSED INSTALLATIONS.
2. WHERE EXPOSED INSTALLATIONS ARE REQUIRED, CONDUIT SHALL BE INSTALLED IN A NEAT MANNER, SUBJECT TO APPROVAL BY OWNER AND ARCHITECT.
3. WIRING DEVICES AT EXTERIOR WALLS SHALL BE INSTALLED ON INTERIOR SURFACE OF YURT STRUCTURE WITH EXPOSED CONDUIT AS REQUIRED.

ALTERNATE BID SPECIAL NOTES:
ALTERNATE BID #1 SHALL INCLUDE UNDERGROUND/UNDERSLAB ELECTRICAL CONDUITS.
ALTERNATE BID #2 SHALL INCLUDE NO ELECTRICAL WORK.
ALTERNATE BID #3 SHALL INCLUDE ALL ALL UNDERGROUND CONDUCTORS AND ABOVE GROUND/ABOVE SLAB ELECTRICAL WORK.

- KEYNOTES:
- POWER FOR MICROWAVE/RANGE HOOD. FIELD COORDINATE EXACT LOCATION.
 - INSTALL LIGHTING FIXTURE AT STRUCTURAL POST. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
 - UNDERCABINET LIGHTING. FIELD COORDINATE EXACT LOCATION AND DETAILING.
 - INSTALL ELECTRICAL EQUIPMENT AND DEVICES ON 6x6 TREATED WOOD POST WITH TOP OF POST AT 2'-0" ABOVE FINISH GRADE AND WITH 12" DIAMETER, 18" DEEP CONCRETE BASE. INSTALL HOME RUN CONDUIT AND CONDUCTORS BELOW GRADE/SLAB WITH NO PENETRATIONS OF YURT STRUCTURE.
 - INSTALL ELECTRICAL DEVICE AND LIGHTING FIXTURE ON 6x6 TREATED WOOD POST WITH TOP OF POST AT 8'-0" ABOVE FINISH GRADE AND WITH 12" DIAMETER, 18" DEEP CONCRETE BASE OR CONNECTION TO DECK FRAMING AS APPLICABLE. INSTALL HOME RUN CONDUIT AND CONDUCTORS BELOW GRADE/SLAB WITH NO PENETRATIONS OF YURT STRUCTURE.
 - INSTALL CEILING FAN AT SUPPORT STRUCTURE PROVIDED WITH YURT. FIELD COORDINATE EXACT REQUIREMENTS.

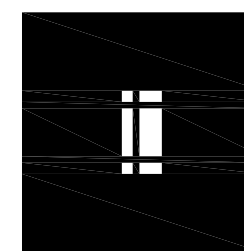
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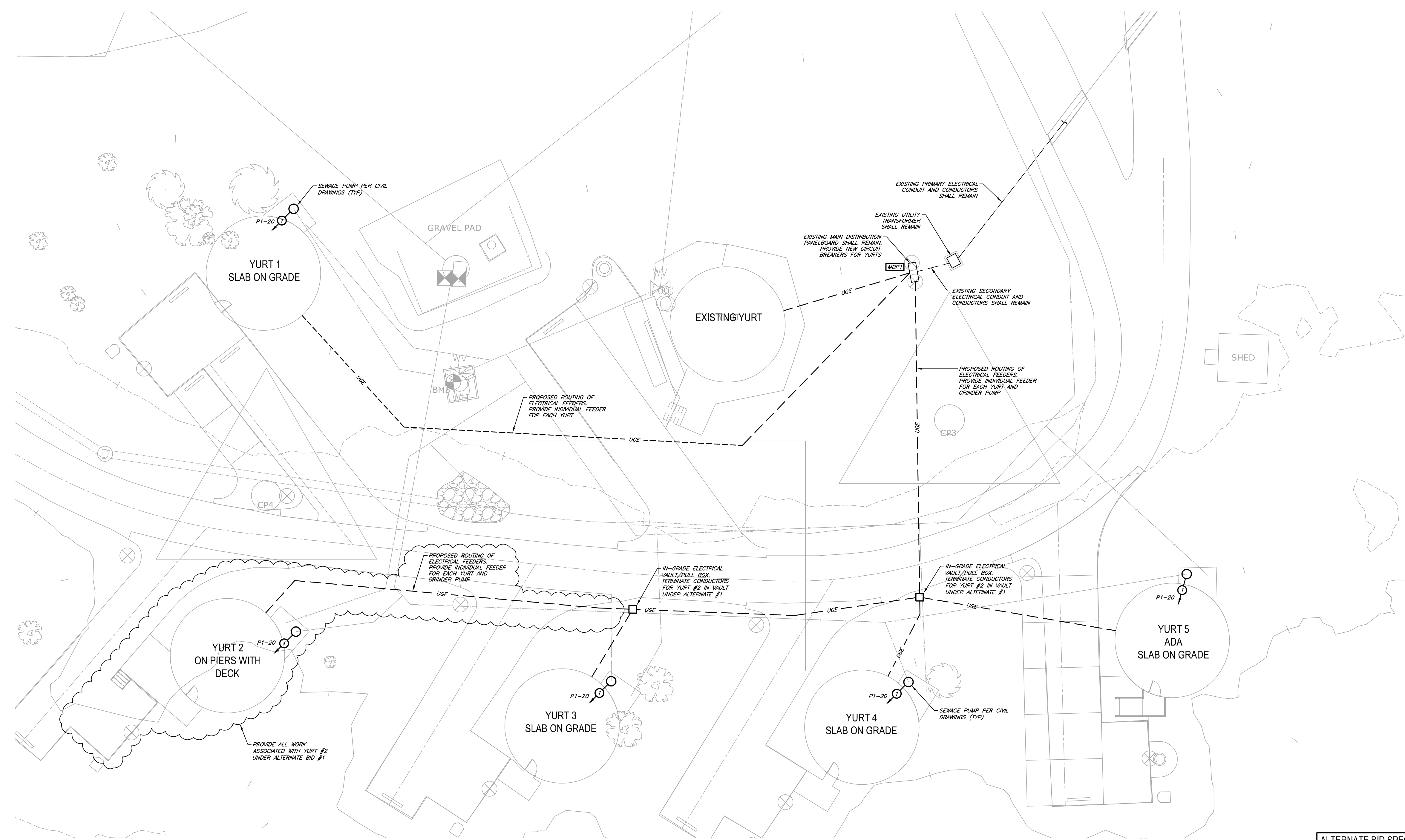
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32 OF 32 SHEETS



ALTERNATE BID SPECIAL NOTES:
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ALTERNATE BID #2 SHALL INCLUDE NO SITE ELECTRICAL WORK
ALTERNATE BID #3 SHALL INCLUDE SITE ELECTRICAL CONDUITORS.


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