# RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK PATTERSON, MO 63956



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF STATE PARKS

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: CORE10 ARCHITECTURE

PROJECT NUMBER: X2319-01

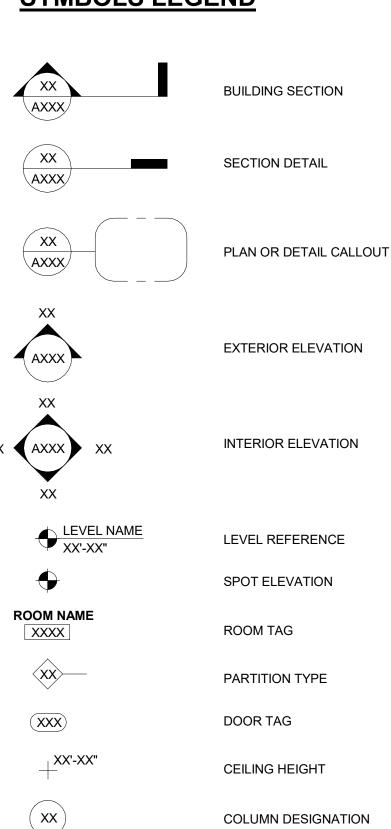
SITE NUMBER: 5218

ASSET NUMBER:

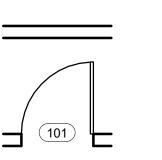
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# RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK

# **SYMBOLS LEGEND**

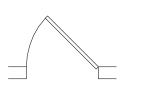


	NORTH ARROW
<u> </u>	TRUE NORTH ARROW
====	EXISTING PARTITION TO BE DEMOLISHED
	EXISTING PARTITION TO REMAIN
	NEW PARTITION

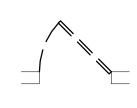




COLUMN DESIGNATION



EXISTING DOOR, FRAME, & HARDWARE TO REMAIN



REMOVE EXISTING DOC FRAME & HARDWARE

ROO	<b>M AREA SCHEDUI</b>	_E
ROOM NO.	ROOM NAME	AREA
CABIN #1		
101	LIVING / DINING ROOM	279 SF
102	BEDROOM	136 SF
103	BATHROOM	40 SF
104	KITCHEN	42 SF
CABIN #2		
101	LIVING / DINING ROOM	280 SF
102	BEDROOM	136 SF
103	BATHROOM	40 SF
104	KITCHEN	37 SF
CABIN #3		
101	LIVING / DINING ROOM	280 SF
102	BEDROOM	140 SF
103	BATHROOM	40 SF
104	KITCHEN	40 SF
CABIN #4		
101	LIVING / DINING ROOM	280 SF
102	BEDROOM	138 SF
103	BATHROOM	40 SF
104	KITCHEN	40 SF
CABIN #14		
101	LIVING / DINING ROOM	280 SF
102	BEDROOM	138 SF
103	BATHROOM	40 SF
104	KITCHEN	40 SF
<u>CABIN #19</u>		
101	LIVING / DINING ROOM	226 SF
102	KITCHEN	67 SF
103	MECH.	10 SF
104	BATHROOM	38 SF
105	BEDROOM	133 SF

AREA SCHEDULE (GROSS)		
CABIN NAME	GROSS AREA	
CABIN #1	621 SF	
CABIN #2	621 SF	
CABIN #3	630 SF	
CABIN #4	628 SF	
CABIN #14	628 SF	
CABIN #19	554 SF	

AREA SCHEDULE (NET)		
CABIN NAME	NET AREA	
CABIN #1	540 SF	
CABIN #2	535 SF	
CABIN #3	544 SF	
CABIN #4	541 SF	
CABIN #14	541 SF	
CABIN #19	489 SF	

ALTERNATE SCHEDULE		
ALTERNATE #	SHEET#	DESCRIPTION
1	A-411 & A-412	PRE-MANUFACTURED FIREPLACE INSERT WITHIN EXISTING OPENING
2	5/A-101 & 3/A-106B	SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA" ,WITH CEDAR BREATHER BETWEEN EACH LAYER
3	REFER TO CIVIL DRAWINGS	ROCK VENEER ON POURED-IN-PLACE CONCRETE RETAINING WALLS
4	A-411 & 1/A-601	WAINSCOT AT RANDOM WIDTH 4,6,8 PATTERN

## **SHEET INDEX**

# **GENERAL**

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C-100.2	OVERALL DEMOLITION PLAN (SOUT
C-101	DEMOLITION PLAN (CABIN 1)
C-102	DEMOLITION PLAN (CABIN 2)
C-103	DEMOLITION PLAN (CABIN 4)
C-104	DEMOLITION PLAN (CABIN 14)
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A-201B	CABIN #1 - EXTERIOR ELEVATIONS AND BUILDING SECTION
A-202A	CABIN #2 - EXTERIOR ELEVATIONS - NORTH AND SOUTH
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A-206	CABIN #19 - EXTERIOR ELEVATIONS

INTERIOR ELEVATIONS A-412 INTERIOR ELEVATIONS A-501 SITE DETAILS

**EXTERIOR DETAILS EXTERIOR DETAILS** A-503 A-601 SCHEDULES AND PARTITION TYPES

A-602 WINDOW SCHEDULE

#### **PLUMBING**

PLUMBING PLANS PLUMBING SPECIFICATIONS AND DETAILS

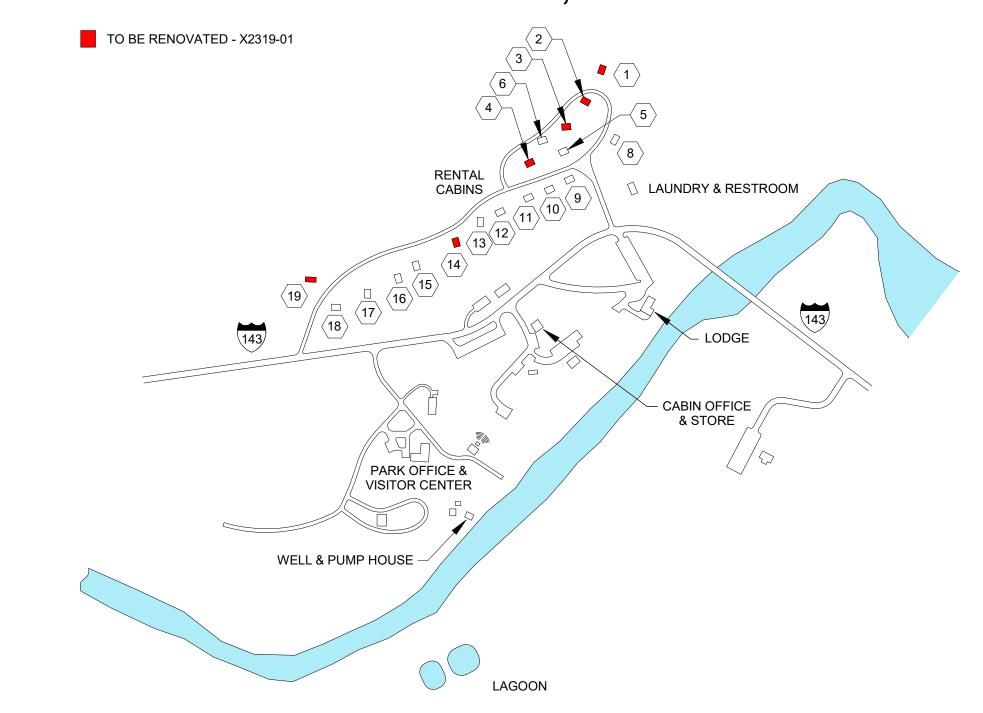
# **MECHANICAL**

MECHANICAL PLANS M-200 MECHANICAL PLANS M-300 MECHANICAL DETAILS

# **ELECTRICAL**

**ELECTRICAL SPECIFICATIONS** ELECTRICAL SPECIFICATIONS ELECTRICAL POWER AND LIGHTING PLAN E-300

# PATTERSON, MO





#### PROJECT DESCRIPTION

#### 1. DESCRIPTION OF PROJECT:

THE PROJECT "RENOVATE CABINS SAM A. BAKER STATE PARK" CONSISTS OF THE RENOVATION OF 6 HISTORIC CABINS IN SAM A. BAKER STATE PARK. THE CABINS WERE CONSTRUCTED IN THE 1930'S BY THE CIVILIAN CONSERVATION CORPS (CCC) AND ARE EXAMPLES OF RUSTIC ARCHITECTURE EMPLOYED BY THE CCC. THE CABINS ARE WELL MAINTAINED BUT HAVE BEEN MODIFIED OVER THE YEARS ERODING SOME OF THE HISTORIC DETAILS. A 1970'S RENOVATION ADDED A SEPARATE BEDROOM, BATH, AND KITCHEN TO EACH CABIN WITH COMPLEMENTARY ARCHITECTURAL DESIGN.

5 OF THE SUBJECT CABINS ARE THE ORIGINAL STONE WITH THE 1970'S ADDITION ADDED TO THE REAR OF THE CABIN WITH FRAME CONSTRUCTION SHEATHED IN WOOD LAP SIDING. THE ADDITIONS HAVE A BEDROOM, BATH, AND SMALL KITCHEN. THE ORIGINAL STONE CABINS MAINTAIN THE HISTORIC "SINGLE ROOM" DESIGN AND CONTAIN A LARGE STONE FIREPLACE AND HEARTH. WINDOWS, DOORS AND HEARTH AND MANTLE APPEAR TO BE ALL ORIGINAL. 4X8 WOOD VENEER PANELING WAS ADDED TO THE INTERIOR OF THE HISTORIC CABINS LATER.

THE 6TH CABIN IS OF DIFFERENT LATER CONSTRUCTION. IT IS COMPLETELY FRAMED WITH WOOD SIDING. THE LAYOUT DIFFERS THOUGH IT MAINTAINS THE SAME ROOM FUNCTIONS. IT HAS A LARGER FRONT PORCH AND SITS ON THE SITE SUCH THAT IT NEEDS RETAINING

THE INTENT OF THE RENOVATION IS TO RESTORE THE HISTORIC NUANCES TO THE CABINS WHILE MAINTAINING AND IMPROVING THEIR FUNCTIONALITY FOR GUEST USE. KITCHENS WILL BE UPDATED TO MODERN APPLIANCES, APPROPRIATE FINISHES, AND BETTER FUNCTIONAL USE. BATHROOMS WILL BE UPGRADED TO MODERN FINISHES AND FIXTURES MECHANICAL SYSTEMS WILL BE UPGRADED AND BETTER CONCEALED TO ALLOW BETTER DISTRIBUTION THROUGH OUT UNIT. ELECTRICAL SYSTEMS WILL BE 100% REPLACED WITH MODERN RELIABLE SYSTEMS. FINISHES FROM THE 1970'S ADDITION AND RENOVATION WILL BE REPLACED WITH A MORE APPROPRIATE HISTORIC FINISH. HISTORIC WINDOWS, DOORS AND EXTERIOR FINISH WILL BE RESTORED. NON HISTORIC WINDOWS, DOORS AND LIGHT FIXTURES WILL BE REPLACED WITH NEW HISTORICALLY APPROPRIATE ELEMENTS.

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ROBERT WILSON WAGSTAFF - ARCHITEC

PROFESSIONAL SEAL



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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

PROJECT #	X2319-01
SITE#	5218
ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003

RE	VISION:	
	DATE:	
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	DATE:	
ISS	UEDATE:	

CAD DWG FILE: DRAWN BY: CHECKED BY:

DESIGNED BY:

SHEET TITLE:

**PROJECT** DESCRIPTION

SHEET NUMBER:

OF 54 SHEETS

#### PROJECT DATA

#### PROJECT DESIGN INFORMATION

RENOVATION OF A RENTAL CABIN EXISTING - 1 STORY STONE AND FRAME

SLAB ON GRADE

ALL SQUARE FOOTAGES ARE GROSS INTERIOR SF

FIRST FLOOR +/- 558 SF TOTAL +/- 558 SF

#### CODE INFORMATION

THE FOLLOWING CODES ARE TO BE ADHERED TO ALONG WITH ANY LOCALLY IMPOSED CODES AND OR REGULATIONS

ICC - INTERNATIONAL CODE COUNCIL

CHAPTER 34 EXISTING BUILDINGS AND STRUCTURES IEBC – INTERNATIONAL EXISTING BUILDING CODE 2018

IECC - INTERNATIONAL ENERGY CONSERVATION CODE 2021 (COMCHECK COMPLIANCE FORMS)

2019 ASHRAE 90.1

TITLE III 6.4000 – ALTERATIONS: HISTORIC PRESERVATION

2017 ANSI A117.1

DEPARTMENT OF JUSTICE, CODE OF REGULATIONS, 28 CFR

 ADA STANDARDS FOR ACCESSIBLE DESIGN 4.1.7 ACCESSIBLE BUILDING: HISTORIC PRESERVATION

NATIONAL REGISTER OF HISTORIC PLACES SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES AND GUIDELINES FOR PRESERVING, REHABILITATING, AND

RECONSTRUCTING HISTORIC BUILDINGS. NATIONAL HISTORIC PRESERVATION ACT OF 1966 & 106

ADVISORY COUNCIL ON HISTORIC PRESERVATION 36 CFR PART 800

SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES 36 CFR PART 68

NFPA – NATIONAL FIRE PROTECTION AGENCY 2016

• 13R – RESIDENTIAL PARTIALLY SPRINKLERED

• 13 – FULLY SPRINKLED TO GET PEOPLE OUT SAFELY AND CONTROL OR EXTINGUISH THE FIRE.

NFPA 101 – LIFE SAFETY CODE

NEC – NATIONAL ELECTRIC CODE 2020

IBC – INTERNATIONAL BUILDING CODE 2021

IPC – INTERNATIONAL PLUMBING CODE 2021

IMC – INTERNATIONAL MECHANICAL CODE 2021 BOCA – BUILDING OFFICIALS CODE ADMINISTRATORS INTERNATIONAL – USED ON THE EAST COAST AND THROUGHOUT THE MIDWEST OF THE UNITED STATES

ASTM – MATERIALS TESTING - SLIP RESISTANT RATING

#### REQUIRED FIRE SAFETY

SMOKE DETECTOR

WITHIN ALL BEDROOMS AND ONE PER FLOOR - PROVIDE CARBON MONOXIDE DETECTOR @ MECH & ONE PER FLOOR

#### **EGRESS**

EMERGENCY EGRESS WINDOWS AT BEDROOMS TO MEET THE FOLLOWING CRITERIA

only

 Minimum width of opening: 20 in. Minimum height of opening: 24 in.

Minimum net clear opening: 5.7 sq. ft.

# 2018 INTERNATIONAL EXISTING BUILDING CODE

SECTION	DESCRIPTION	ACTION
701.4	Emergency escape and rescue openings	Shall be operational from inside w/o use of keys or tools. Bars, grills, grates shall comply with min. net clear opening size req. by the code that was in effect at the time of construction, shall be releasable from inside w/o use of keys, tools, force greater thar req. for normal operation of rescue opening, shall not reduce net clear opening of rescue opening. Smoke alarms shall be installed in accordance with Section 907.2.10 of IBC
702.4	Window opening control devices, building elements and materials	Group R-2 dwelling units, window opening control devices complying with ASTM F 2090 shall be installed where an existing window is being replaced where the window complies with requirements of this section
703.1	Fire protection	Maintain the level of fire protection provided
704.1	Means of egress	Maintain the level of protection provided for the means of egress
705	Reroofing	Applicable
707.1	Energy conservation, minimum requirements	Alterations shall conform to energy requirements of IECC as they relate to new construction

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

PROFESSIONAL SEAL



DIVISION OF FACILITIES MANAGEMENT, **DESIGN AND CONSCTRUCTION** 

**OFFICE OF ADMINISTRATION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

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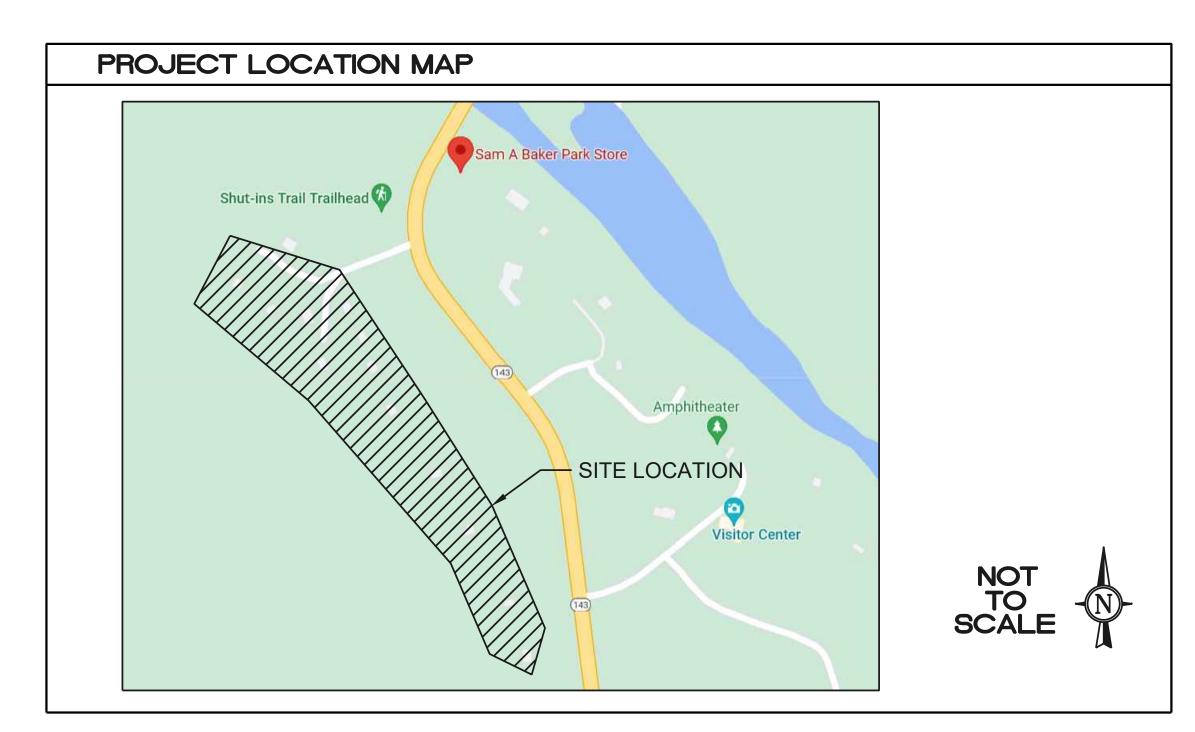
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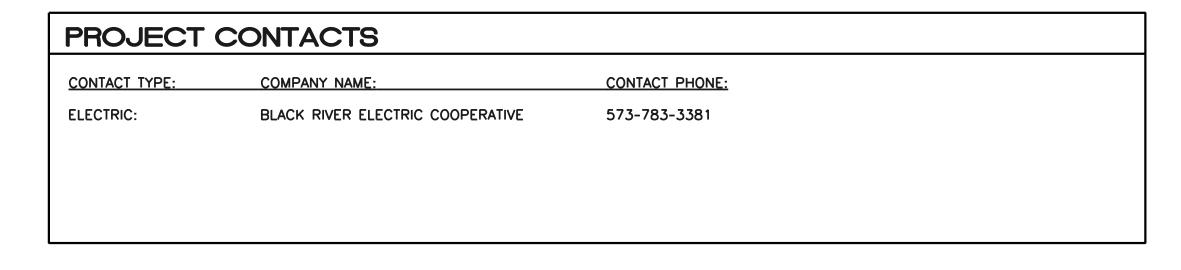
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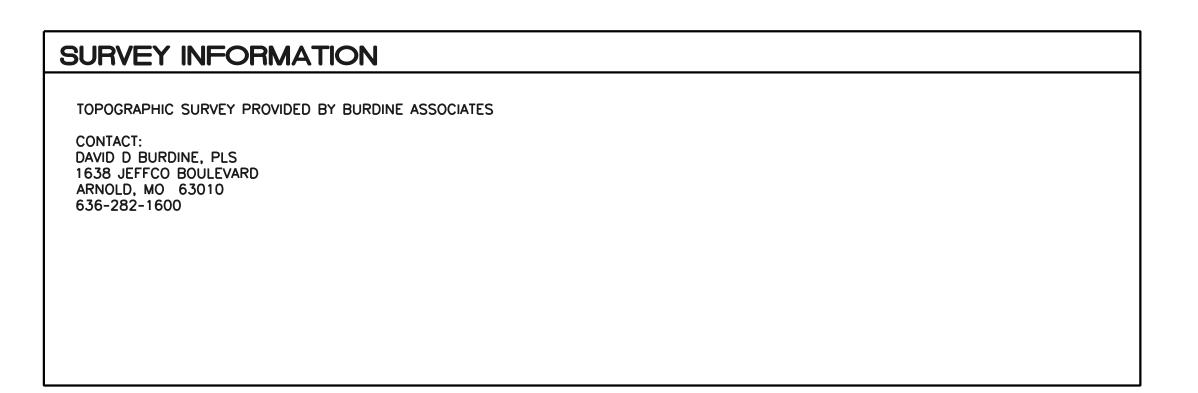
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3 OF 54 SHEETS

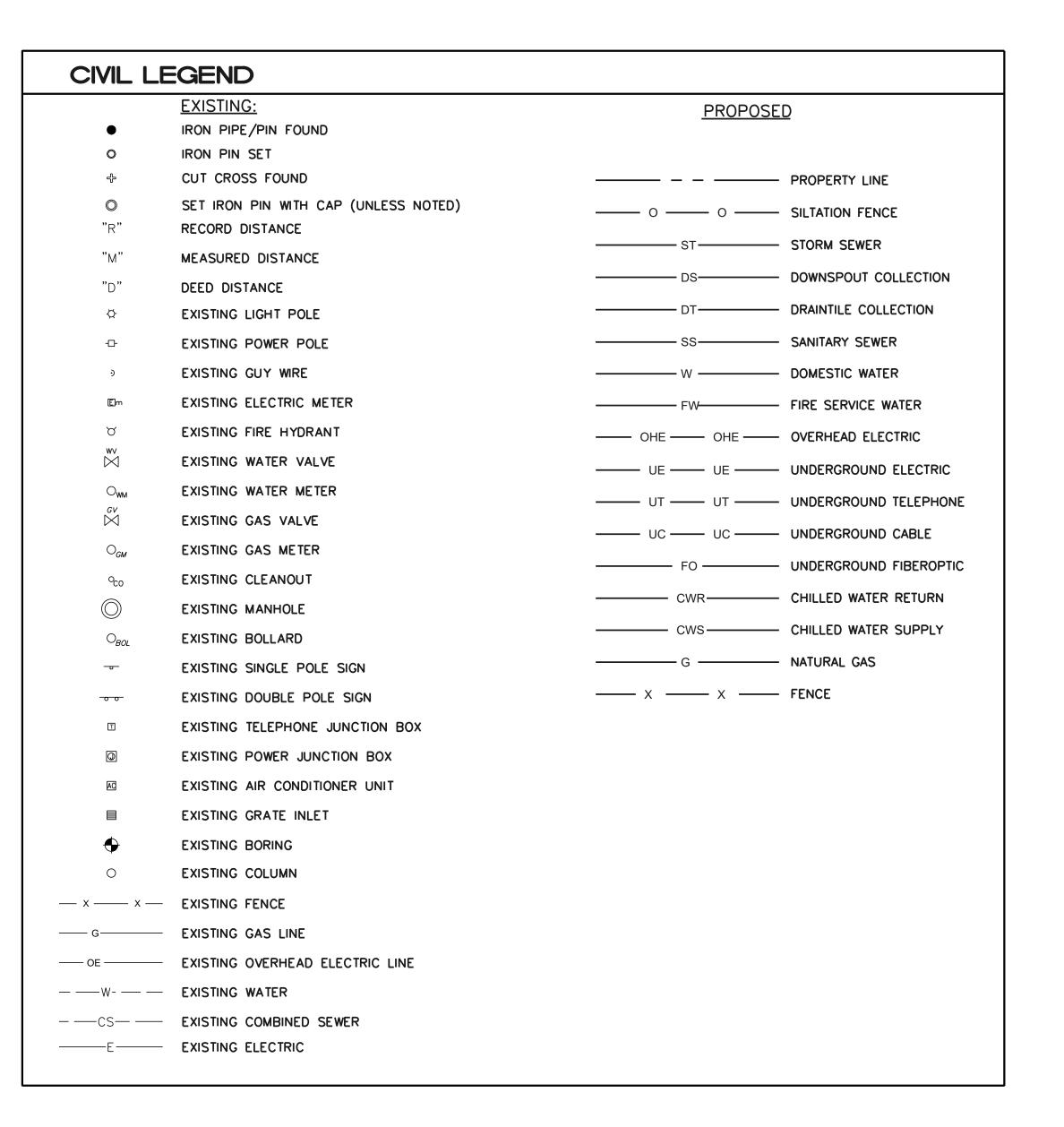
# SAM A BAKER STATE PARK - CABIN RENOVATIONS 5580 MO-143, PATTERSON, MO 63956







CIVIL ABBREVIATIONS			
ASPH	ASPHALT	OHE	OVERHEAD ELECTRIC
ADG	ADJUST TO GRADE	ORD	ORDINANCE
BC	BACK OF CURB	OU	OVERHEAD UTILITY
BIT	BITUMINOUS	PB	PLAT BOOK
BK	BOOK	PC	POINT OF CURVATURE
I BM	BENCHMARK	PCA	PORTLAND CONCRETE ASSOCIATION
BOP	BEGINNING OF PROJECT	PCC	PORTLAND CEMENT CONCRETE
BW	BOTTOM OF WALL	PCH	PIPE CULVERT HEADWALLS
CL	CENTERLINE	PG	PAGE
CI	CURB INLET	PI	POINT OF INTERSECTION
CJ	CONSTRUCTION JOINT	PIV	POST INDICATOR VALVE
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEANOUT	PP	POWER POLE
CONC	CONCRETE	PROP	PROPOSED
CPR	COPPER PIPE	PSI	POUNDS PER SQUARE INCH
CS	COMBINED SEWER	PT	POINT OF TANGENT
CT	COOLING TOWER	PVC	POINT OF VERTICAL CURVE,
D	DEGREE OF CURVE		POLYVINYL CHLORIDE PIPE
DI	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	PVMT	PAVEMENT
DIM	DIMENSION	PVT	POINT OF VERTICAL TANGENT
DND	DO NOT DISTURB	R, RAD	RADIUS
DS	DOWNSPOUT	RCP	REINFORCED CONCRETE PIPE
DW	DOMESTIC WATER	RD	ROADWAY
ELEC	ELECTRIC	ROW	RIGHT OF WAY
ELEV	ELEVATION	RTE	ROUTE
EOP	EDGE OF PAVEMENT	SP	SPACES
EX, EXIST	EXISTING	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SS, SA	SANITARY SEWER
ET	ELECTRIC TRANSFORMER	ST	STORM SEWER
FF	FINISH FLOOR	STA	STATION
FH F	FIRE HYDRANT	STL	STEEL PIPE
FL FO	FLOW LINE	TBA	TO BE ABANDONED AND FILLED
FO FP	FIBER OPTIC FIRE PROTECTION	TBA&F TBR	TO BE ABANDONED AND FILLED TO BE REMOVED
FW FW	FIRE WATER	TBR&R	TO BE REMOVED AND REPLACED
G	NATURAL GAS	TBR&S	TO BE REMOVED AND REPLACED  TO BE REMOVED AND SALVAGED
GM	GAS METER	TC	TOP OF CURB
GV	GAS VALVE	TELE	TELEPHONE
HORIZ	HORIZONTAL	TI	TOP OF INLET
ID	INSIDE DIAMETER	TW	TOP OF WALL
INV	INVERT	TYP	TYPICAL
	LENGTH OF CURVE	UG	UNDERGROUND
MAX	MAXIMUM	UGE	UNDERGROUND ELECTRIC
MEP	MECHANICAL/ELECTRICAL/PLUMBING	UGT	UNDERGROUND TELEPHONE
MH	MANHOLE	UIP	USE IN PLACE
MIN	MINIMUM	VAC	VACATED
MISC	MISCELLANEOUS	VCP	VITRIFIED CLAY PIPE
MON	MONUMENT	VERT	VERTICAL
N	NORTH	W	WATER
NIC	NOT IN CONTRACT	W/	WITH
NO	NUMBER	WM	WATER METER
NTS	NOT TO SCALE	WV	WATER VALVE
OC	ON CENTER	WWF	WELDED WIRE FABRIC
OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
ОН	OVERHEAD		

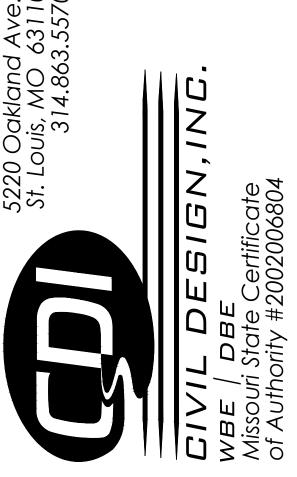


#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



MISSOURI STATE CERTIFICATE OF AUTHORIT

PROFESSIONAL SEAL



#### OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

## **DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

PATTERSON, MO

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PROJECT # X2319-01

**REVISION:** DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUEDATE: 04/17/24

CAD DWG FILE: DRAWN BY:

CHECKED BY: DESIGNED BY: JEF

SHEET TITLE:

CIVIL GENERAL INFORMATION

SHEET NUMBER:

#### **DEMOLITION NOTES:**

- 1. AREAS SURROUNDING THIS SITE WILL CONTAIN BOTH PEDESTRIAN AND VEHICLE TRAFFIC. ALL NECESSARY CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THE SAFETY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MAINTAINING SAFE AND EFFICIENT PROJECT LIMITS. THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL GUIDELINES WITH REGARDS TO CONSTRUCTION SAFETY THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BREACHES OF SAFETY OR DESTRUCTION OF PROPERTY RELATED TO THE CONSTRUCTION OF THIS PROJECT.
- 2. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION BEFORE EXCAVATION OR TRENCHING TO AVOID DAMAGE THERETO.
- 3. ANY PAVEMENT INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY. THIS INCLUDES ANY AND ALL GRANULAR BASE ENCOUNTERED.
- 4. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE ANY EXISTING SITE FEATURES TO REMAIN. IF ANY DAMAGE OCCURS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY. THE CONTRACTOR SHALL REPAIR ALL DAMAGED ITEMS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

### UTILITY NOTES:

- I. LOCATE EXISTING UNDERGROUND UTILITIES AND SEWERS IN AREAS OF WORK PRIOR TO STARTING OPERATIONS. WHEN UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING OPERATIONS. SHOULD UNKNOWN UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY FOR FURTHER DIRECTION.
- 2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10' BETWEEN ANY WATER LINE AND ANY SANITARY SEWER LINE. THIS DIMENSION IS FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY COVERS FOR ANY EXCAVATIONS LEFT UNATTENDED FOR ANY PERIOD OF TIME.
- 4. TOP ELEVATIONS OF ALL PROPOSED AND EXISTING UTILITY STRUCTURES HAVE BEEN DESIGNED TO MATCH FINISH GRADE. IF FIELD FINISH GRADE DIFFERS FROM DESIGN TOP ELEVATIONS SHOWN ON THESE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
- 5. CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING AND APPLYING UTILITY SERVICE WITH EACH UTILITY COMPANY PRIOR TO STARTING CONSTRUCTION.
- THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE SURVEY AND RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- 7. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THEIR PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- 8. ANY PART OF THE UTILITY PIPE TRENCHES RUNNING WITHIN 2 FEET OF PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES AND LANDSCAPING.
- 10. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED BUILDING PAD. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO THE STORM SEWER SYSTEM. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- 11. CONTRACTOR SHALL SUPPLY ALL TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- 12. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- 13. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING PLAN SHEETS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
- 14. PAVEMENTS, WALKS, CURBS, AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION.
- 15. CONTRACTOR TO PROVIDE THE NECESSARY CONDUIT TO PROPERLY RUN AND FEED THE PROPOSED SITE LIGHTING PRIOR TO PAVING.
- 16. MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.

#### SITE NOTES:

- 1. ALL RADII AND OTHER DIMENSIONS FOR PAVEMENT AND WALK ARE TO THE EDGE OF PAVEMENT, EDGE OF WALK AND/OR BACK OF CURB.
- 2. CIVIL DRAWINGS SHALL NOT BE USED TO LOCATE OR CONSTRUCT BUILDING FOOTINGS, FOUNDATIONS, OR ANY OTHER STRUCTURE(S) ASSOCIATED WITH THE BUILDING(S). FOR LOCATION AND CONSTRUCTION OF BUILDING FOOTINGS, FOUNDATIONS, ETC., REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK OR FACING MATERIAL. WHERE APPLICABLE.
- 4. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE. REFER TO RECORDED PLATS AND SURVEYS FOR ADDITIONAL PROPERTY INFORMATION.
- 5. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS & LAYOUT.
- 6. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THEIR PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- ALL SIDEWALK, CURB AND GUTTER, STREET PAVING, CURB CUTS, DRIVEWAY APPROACHES, HANDICAP RAMPS, ETC. CONSTRUCTED OUTSIDE THE PROPERTY LINE IN THE RIGHT-OF-WAY SHALL CONFORM TO ALL MUNICIPAL AND/OR STATE SPECIFICATIONS AND REQUIREMENTS.
- 8. FOR AREAS OUTSIDE THE PROPERTY LINES, REPAIR AND/OR REPLACE ALL DAMAGE DONE TO EXISTING ELEMENTS (SIDEWALKS, PAVING, LANDSCAPING, ETC.) AS REQUIRED BY OWNER AND/OR GOVERNING AUTHORITY.
- 9. PROOF ROLL BUILDING AND ALL PARKING AREAS. NOTIFY THE ENGINEER OF ANY UNACCEPTABLE AREAS.
- 10. EDGE OF NEW PAVEMENT TO BE FLUSH WITH EXISTING PAVEMENT.
- 11. SIDEWALK EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES AND CONTROL JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 4' INTERVALS OR LESS WITH AN EXPANSION JOINT EVERY 20' OR LESS. BROOM FINISH WITH 8" PER FOOT SLOPE FOR DRAINAGE.
- 12. CONCRETE PAVEMENT MARKING LINES SHALL BE 4" WIDE PAINTED WHITE WITH TWO (2) COATS OF SHERWIN WILLIAMS "HOTLINE" FAST DRYING TRAFFIC MARKING PAINT. HANDICAP PARKING & HANDICAP SYMBOLS SHALL BE PAINTED COLOR & SIZE AS REQUIRED BY GOVERNING ACCESSIBILITY CODE.
- 13. UNLESS OTHERWISE SHOWN, PERMANENT SIGNS SHALL BE MOUNTED ON A SINGLE U-CHANNEL DRIVE POST DRIVEN 42 INCHES BELOW GRADE. THE BOTTOM EDGE OF THE SIGN SHALL BE 6 FEET ABOVE THE NEAREST PAVEMENT EDGE ELEVATION.
- 14. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SODDED/SEEDED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS TO BE PLANTED.
- 15. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE TRAFFIC BY CONTRACTORS, SUBCONTRACTORS, OR SUPPLIERS HAVE DAMAGED EXISTING PAVEMENT, LAWNS, OR OTHER IMPROVEMENTS DURING CONSTRUCTION, AFTER CONSTRUCTION WORK IS COMPLETE.
- 16. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- 17. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- 18. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER
- 19. PARKING LOT GRADING SHALL NOT EXCEED 5% MAX. CROSS SLOPE.
- 20. BASE OF PARKING LOT LIGHT POLES SHALL REMAIN UNPAINTED AND RUBBED SMOOTH. BASE SHALL BE 22" TALL FROM FINISHED GRADE.
- 21. SITE SHALL COMPLY WITH ALL ADA ACCESSIBLE REGULATIONS.
- 22. SIDEWALKS ALONG ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1:20.
- 23. SITE LIGHTING SHALL BE INSTALLED SO AS NOT TO CAST LIGHT DIRECTLY ON PUBLIC RIGHT-OF-WAY OR ADJOINING PROPERTY. ALL EXTERIOR LIGHTING MUST BE IESNA RATED CUT-OFF OR FULL CUT-OFF FOR USE ON THE SITE.
- 24. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION BEFORE EXCAVATION OR TRENCHING TO AVOID DAMAGE THERETO.
- 25. ANY UTILITY CONNECTIONS SHALL BE COMPLETED TO THE APPROPRIATE STANDARDS OF EACH RESPECTIVE UTILITY COMPANY.

#### **GRADING NOTES:**

- 1. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.
- 2. NO SLOPES SHALL EXCEED 3H:1V.
- 3. PROPOSED ELEVATIONS SHOWN ON PLAN ARE FINISH GRADE ELEVATIONS.
- 4. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS DURING COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT ANY DAMAGE TO BELOW GRADE STRUCTURES
- 5. CLEARING TECHNIQUES THAT RETAIN VEGETATION TO THE MAXIMUM EXTENT PRACTICAL SHALL BE USED, AND THE TIME PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL.
- 6. WHEN ANY GRADING OCCURS PRIOR TO FINAL GRADING, THE SITE SHALL AT ALL TIMES BE MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 7. ALL EXCESS EARTHWORK MATERIALS SHALL BE HAULED OFF-SITE AND DISPOSED OF IN A LEGAL MANNER.
- 8. CONTRACTOR SHALL INSTALL PERMANENT TURF REINFORCEMENT MATS ON ALL FINISH GRADED SLOPES BETWEEN 3H:1V AND 5H:1V.
- 9. PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL HOLD ROUGH GRADES DOWN TO ACCOMMODATE THE REQUIRED DEPTH OF TOPSOIL IN ORDER TO ACHIEVE FINISH GRADE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TOPSOIL OVER AND ABOVE THE AMOUNT THAT MAY HAVE BEEN PREVIOUSLY STRIPPED DURING CLEARING OPERATIONS.
- 10. ALL DISTURBED AREAS SHALL BE SEEDED, SODDED, PLANTED, PAVED, OR OTHERWISE SURFACED WITHIN 14 DAYS OF COMPLETION OF EACH PHASE OF WORK
- 11. ALL GRADING ACTIVITY SHALL BE CONDUCTED BETWEEN THE HOURS OF 7AM AND 7PM, MONDAY THROUGH SATURDAY.
- 12. NO GRADING SHALL BE COMPLETED ON ANY PROPERTY WHICH WILL ADVERSELY AFFECT NEIGHBORING PROPERTIES BY DISCHARGING, DIRECTING, OR OBSTRUCTING WATER FLOW IN SUCH A WAY THAT IT CAUSES DAMAGE. ALL STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. A SINKHOLE IS NOT AN ADEQUATE DISCHARGE POINT.
- 13. CONTRACTOR TO REFERENCE GEOTECHNICAL REPORT FOR REMOVAL AND REPLACEMENT OF ALL UNSUITABLE FILL LOCATED UNDER THE PROPOSED ADDITIONS AND ANCILLARY STRUCTURES. REMOVAL AND REPLACEMENT SHOULD BE UNDERTAKEN IN A CONTROLLED MANNER. SEE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

#### **EROSION CONTROL NOTES:**

- 1. CONTRACTOR SHALL ERECT SILTATION DEVICES IN LOCATIONS SHOWN ON THE PLANS FOR PROPER EROSION CONTROL. THIS EROSION CONTROL PLAN SHALL BE USED AS A GUIDE TO PROPER EROSION AND SILTATION COLLECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY COLLECT IN EXISTING OR PROPOSED INLETS AND MANHOLES, OR ANY OFF-SITE LOCATIONS AS A RESULT OF CONSTRUCTION. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED BY THE CONTRACTOR AS NECESSARY IN ORDER TO MAINTAIN PROPER EROSION CONTROL. PRIOR TO COMPLETION OF THE PROJECT, ALL INLETS, MANHOLES, SEWER PIPES AND PAVEMENTS SHALL BE INSPECTED FOR SEDIMENT AND ALL SEDIMENT REMOVED BY THE CONTRACTOR.
- 2. CONTRACTOR SHALL MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF THE PROJECT. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS. AFTER EVERY STORM EVENT, EROSION AND SEDIMENT CONTROL DEVICES AS WELL AS EXISTING AND PROPOSED INLETS, MANHOLES, SEWER PIPES, AND PAVEMENTS SHALL BE INSPECTED. REMOVE ANY SEDIMENT FROM THESE AREAS IMMEDIATELY.
- 3. ALL EXISTING STORM INLETS TO REMAIN UNDISTURBED WITHIN THE PROJECT AREA SHALL HAVE ADEQUATE SEDIMENTATION CONTROL. ALL EXISTING STORM INLETS SCHEDULED TO BE REMOVED SHALL HAVE ADEQUATE SEDIMENTATION CONTROL UNTIL EXISTING STORM INLET IS REMOVED IN ITS ENTIRETY.
- 4. ALL PROPOSED STORM INLETS SHALL HAVE ADEQUATE SEDIMENTATION CONTROL THROUGHOUT THE ENTIRETY OF THE PROJECT. SEDIMENT CONTROL DEVICES SHALL BE UPDATED THROUGH ALL PHASES OF PROJECT.
- 5. CONTRACTOR SHALL WASH TRUCKS PRIOR TO EXITING CONSTRUCTION AREA TO PREVENT MUD AND DEBRIS FROM LEAVING PROJECT SITE. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE CONSTRUCTION LIMITS ON ANY PAVEMENTS, WALKS, OR GRASSES SHALL BE REMOVED IMMEDIATELY.
- 6. ANY DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCE STANDARDS.
- 7. DUST FROM DEMOLITION OR EARTHWORK OPERATIONS SHALL BE CONTROLLED VIA AN APPROVED METHOD IN ACCORDANCE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCE STANDARDS.
- 8. PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.

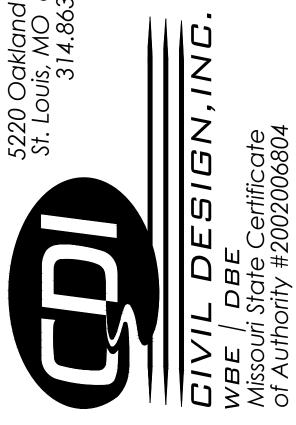
#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER
MO PE-2003001031

STATE OF MISSOURI
CIVIL DESIGN, INC.
ENGINEERING CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY
NO. 2002006804

PROFESSIONAL SEAL



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019

PROJECT # X2319-01

SITE#

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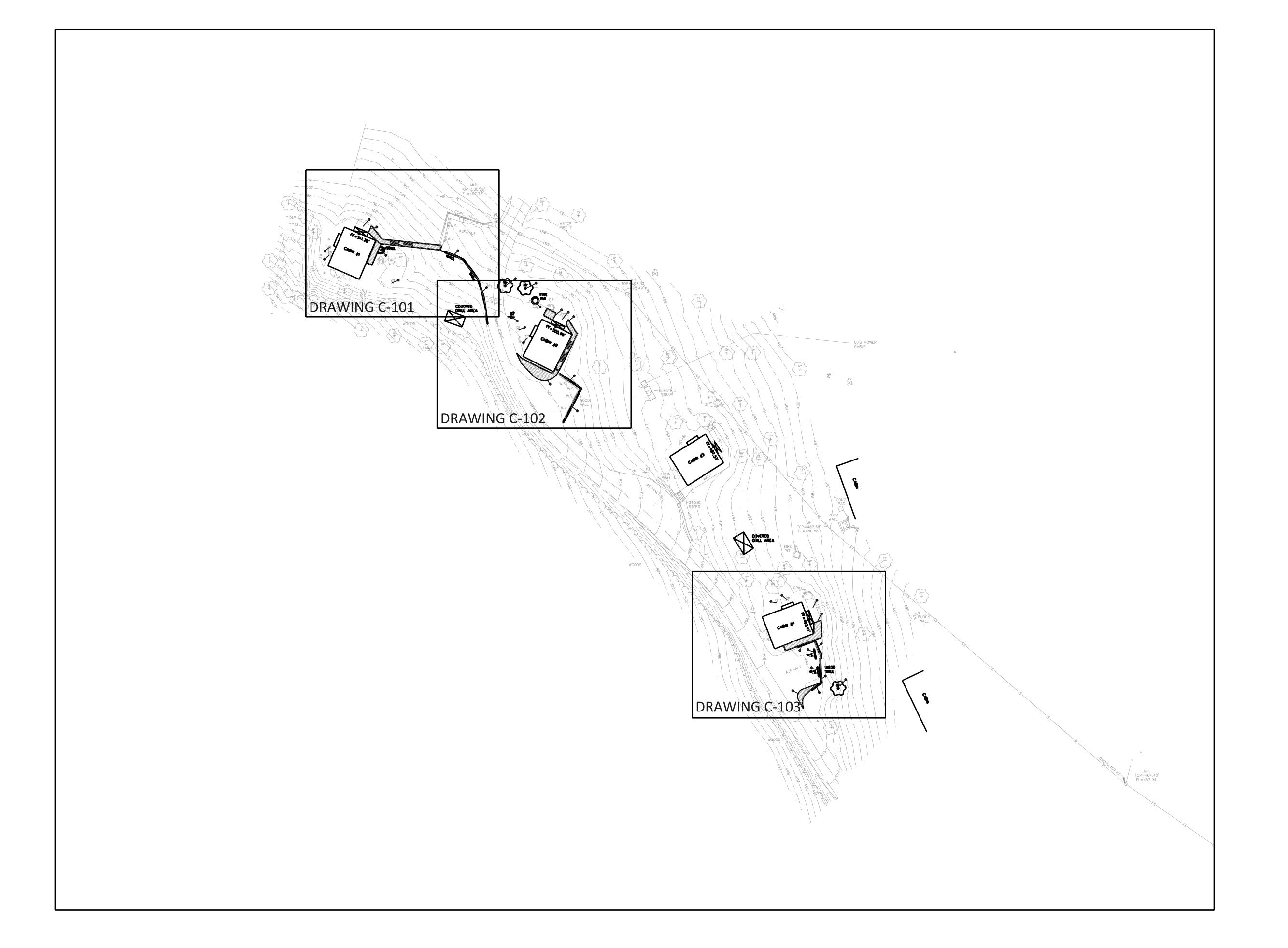
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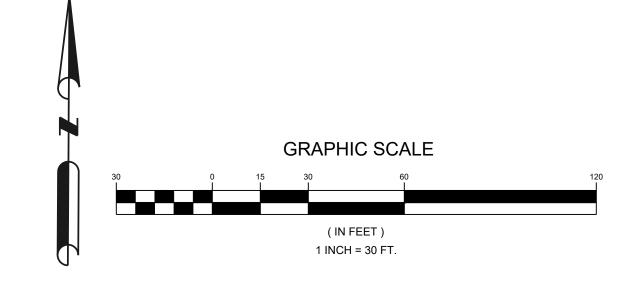
CIVIL GENERAL NOTES

SHEET NUMBER:

5 OF 54 SHEETS

04/17/24





# STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES MANAGEMENT, **DESIGN AND CONSCTRUCTIO** 

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005 7815218003 CABIN #14: CABIN #19: 7815218019

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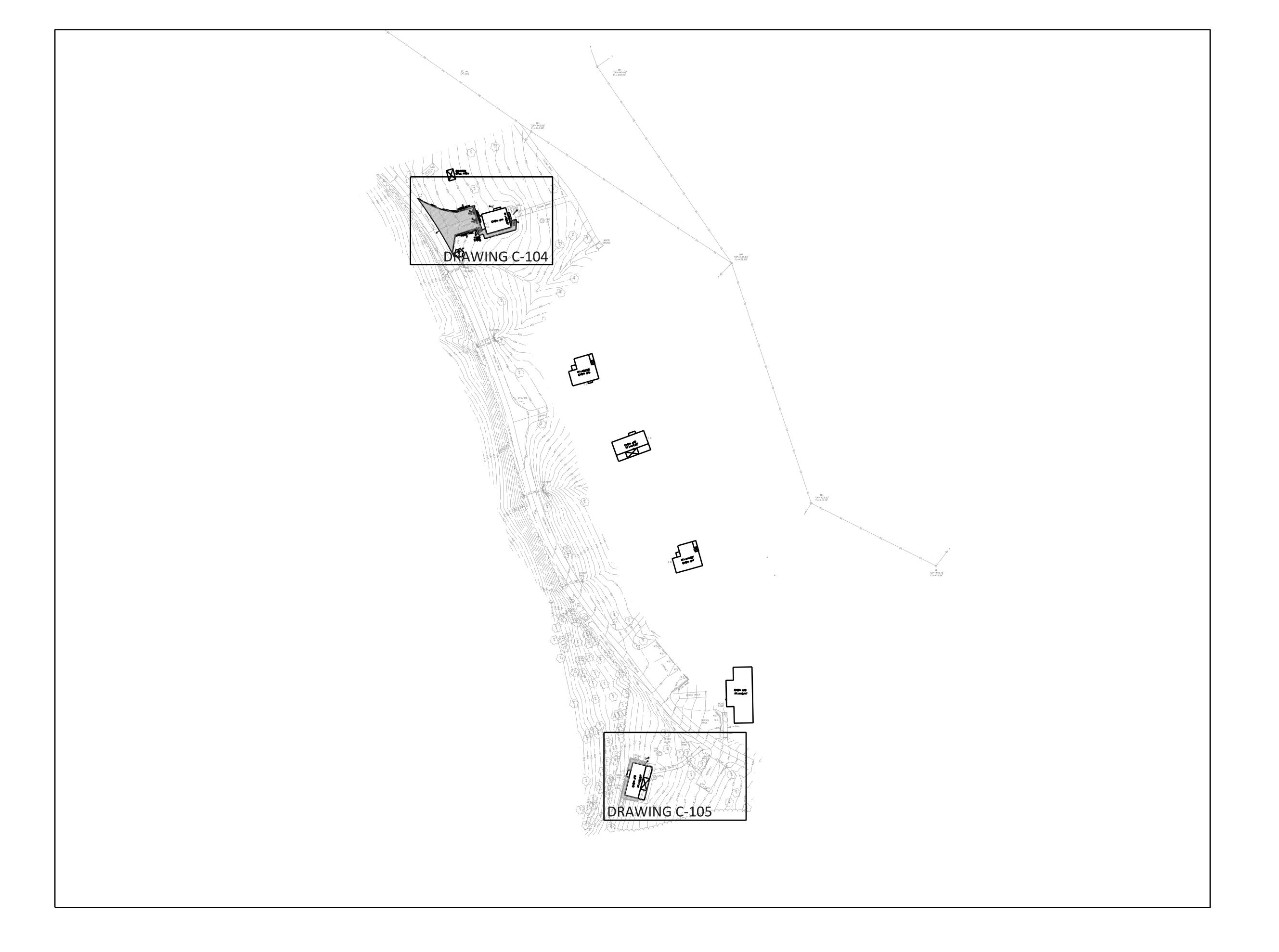
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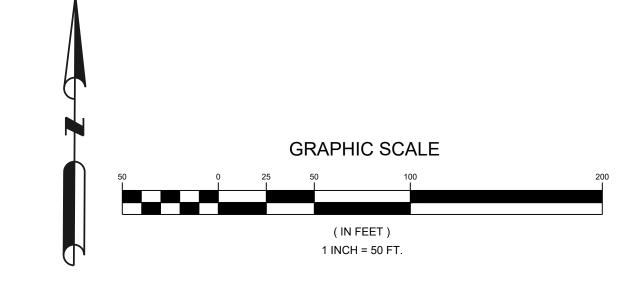
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OVERALL DEMOLITION PLAN (NORTH)

SHEET NUMBER:

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#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

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DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

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SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

7815218019

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005 7815218003 CABIN #14:

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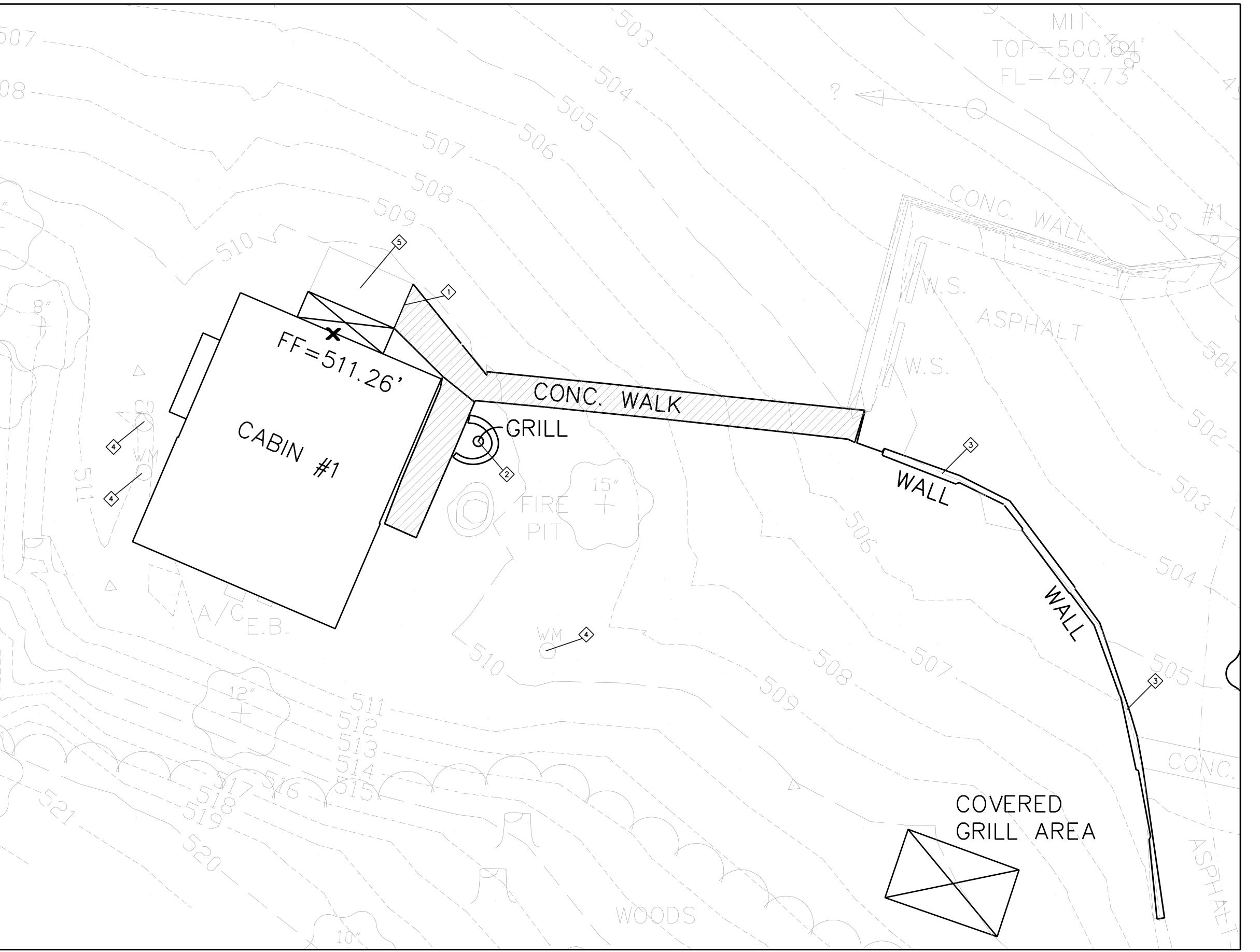
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SHEET TITLE:

OVERALL DEMOLITION PLAN (SOUTH)

SHEET NUMBER:

|C-100.2|







PAVEMENT REMOVAL

## KEYED NOTES:

- SAWCUT PAVEMENT (FULL DEPTH)
- 2 REMOVE AND RELOCATE GRILL
- REMOVE RETAINING WALL
- UTILITY TOP ADJUST TO FINISH GRADE AS REQUIRED
- 5 EXISTING CONCRETE STOOP USE IN PLACE (SEE ARCHITECTURAL FOR TOPPING SLAB)

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER
MO PE-2003001031

STATE OF MISSOURI
CIVIL DESIGN, INC.
ENGINEERING CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY
NO. 2002006804

PROFESSIONAL SEAL



OFFICE OF ADMINISTRATIO
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

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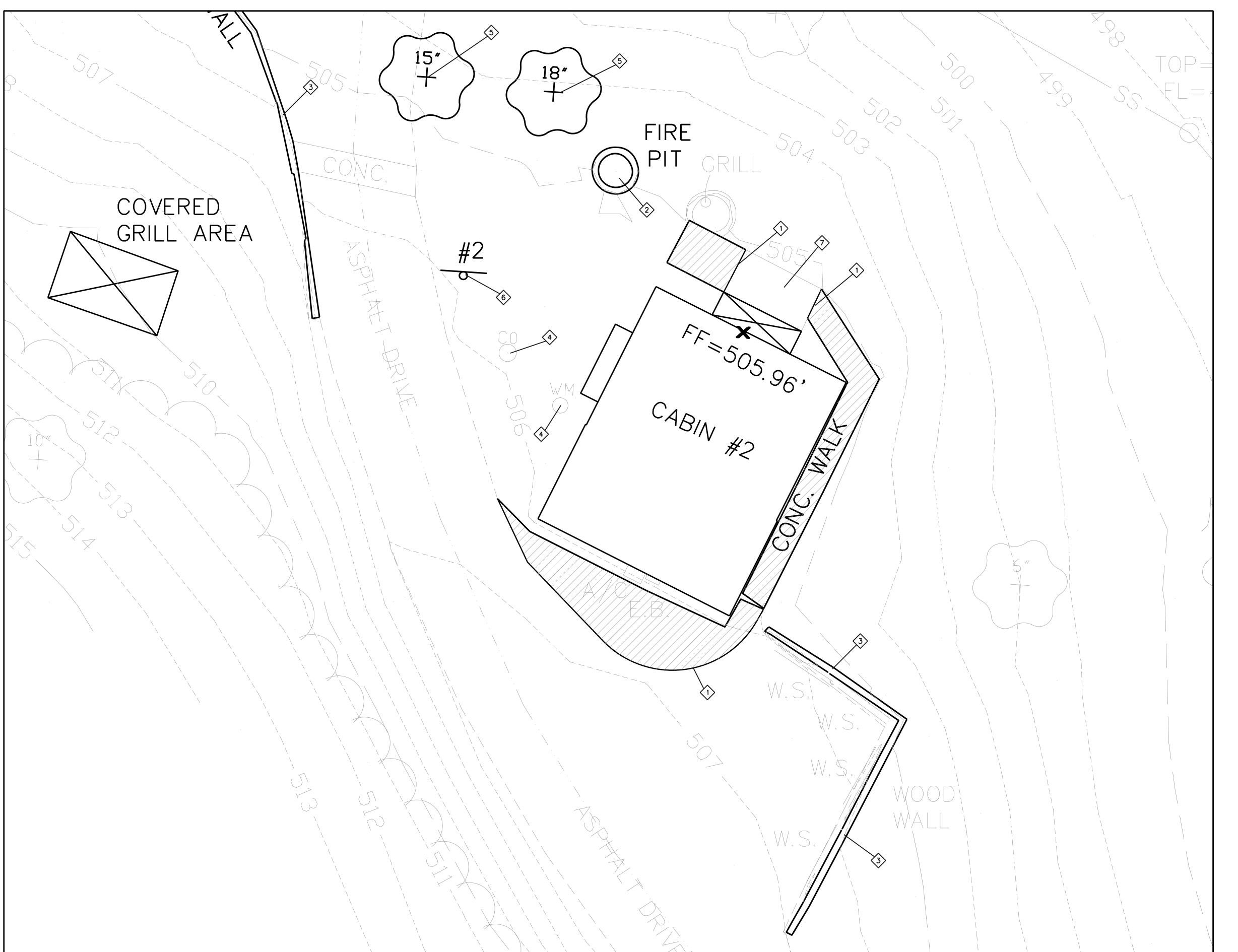
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SHEET TITLE:

DEMOLITION PLAN (CABIN 1)

SHEET NUMBER:

C-101







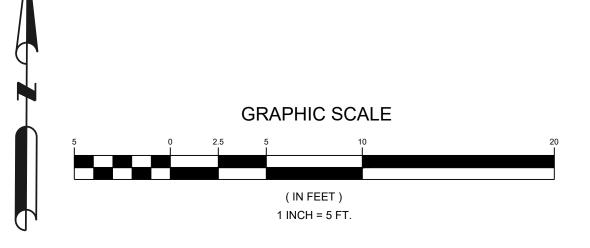
PAVEMENT REMOVAL

## KEYED NOTES:

- SAWCUT PAVEMENT (FULL DEPTH)
- 2 REMOVE AND RELOCATE FIRE PIT
- 3 REMOVE RETAINING WALL
- UTILITY TOP ADJUST TO FINISH GRADE AS REQUIRED
- REMOVE TREE AND GRIND STUMP (SEE DRAWING NOTE 1)
- 6 REMOVE AND RELOCATE CABIN SIGN
- (SEE ARCHITECTURAL FOR TOPPING SLAB)

#### **DRAWING NOTES:**

TREE REMOVAL WILL REQUIRE A DNR-MSP NATURAL RESOURCE CLEARANCE SUBMITTED BY MSP STAFF. COORDINATE SITEWORK TO AVOID REMOVAL OF AS MANY TREES AS IS FEASIBLE.



#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

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#### OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES MANAGEMENT, **DESIGN AND CONSCTRUCTIO**

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

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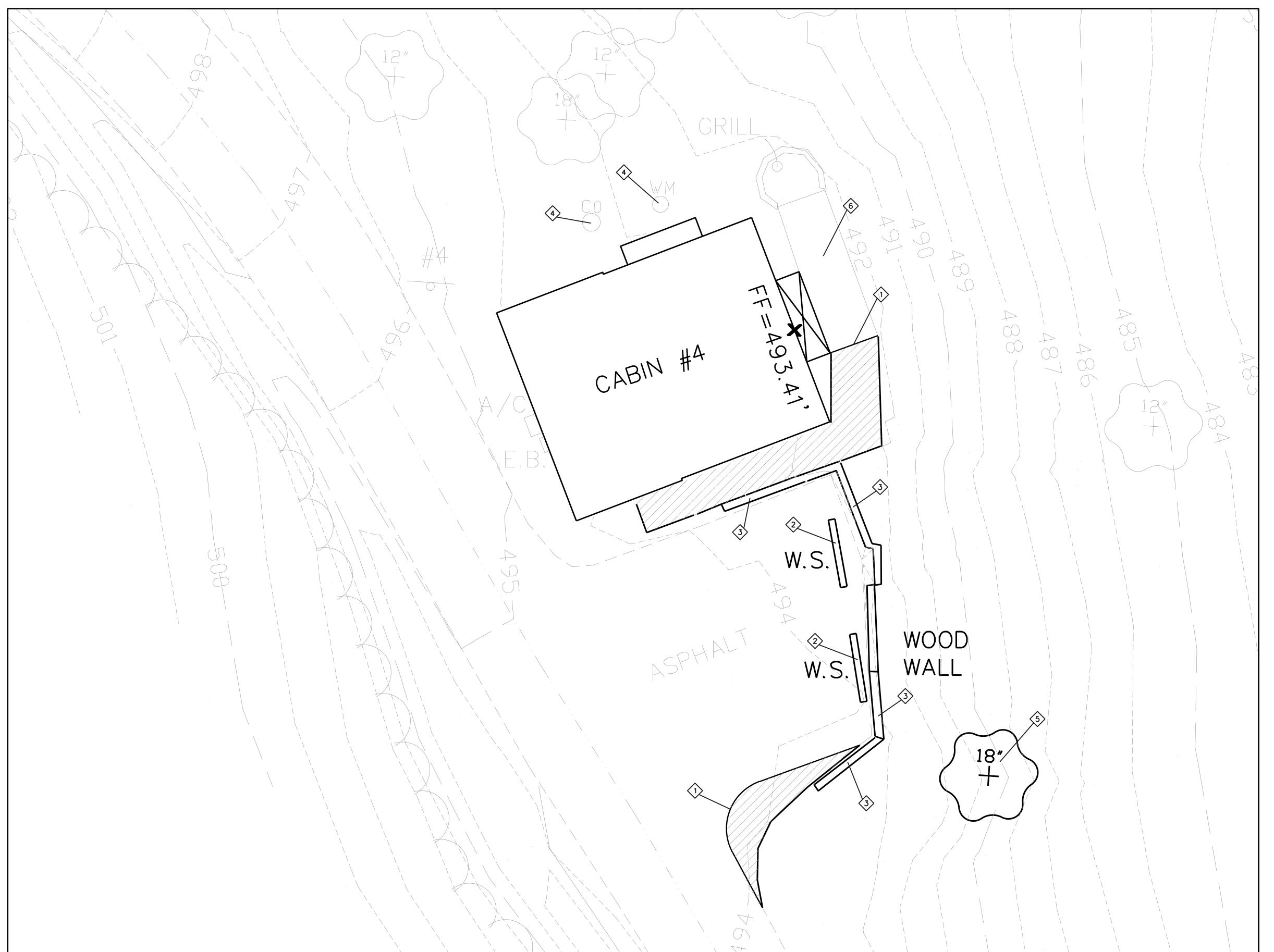
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DEMOLITION PLAN (CABIN 2)

SHEET NUMBER:

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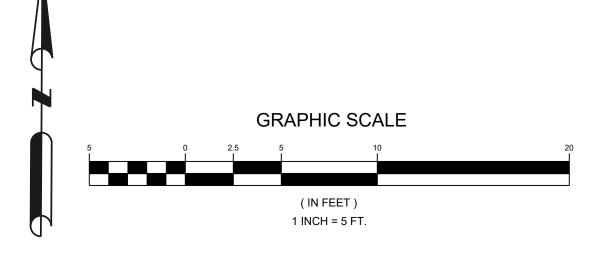
PAVEMENT REMOVAL

#### KEYED NOTES:

- SAWCUT PAVEMENT (FULL DEPTH)
- 2 REMOVE WHEELSTOP
- 3 REMOVE RETAINING WALL
- UTILITY TOP ADJUST TO FINISH GRADE AS REQUIRED
- REMOVE TREE AND GRIND STUMP (SEE DRAWING NOTE 1)
- 6 EXISTING CONCRETE STOOP USE IN PLACE (SEE ARCHITECTURAL FOR TOPPING SLAB)

# **DRAWING NOTES:**

TREE REMOVAL WILL REQUIRE A DNR-MSP NATURAL RESOURCE CLEARANCE SUBMITTED BY MSP STAFF. COORDINATE SITEWORK TO AVOID REMOVAL OF AS MANY TREES AS IS FEASIBLE.



#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

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#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3: CABIN #4: 7815218005 7815218003 CABIN #14: CABIN #19: 7815218019

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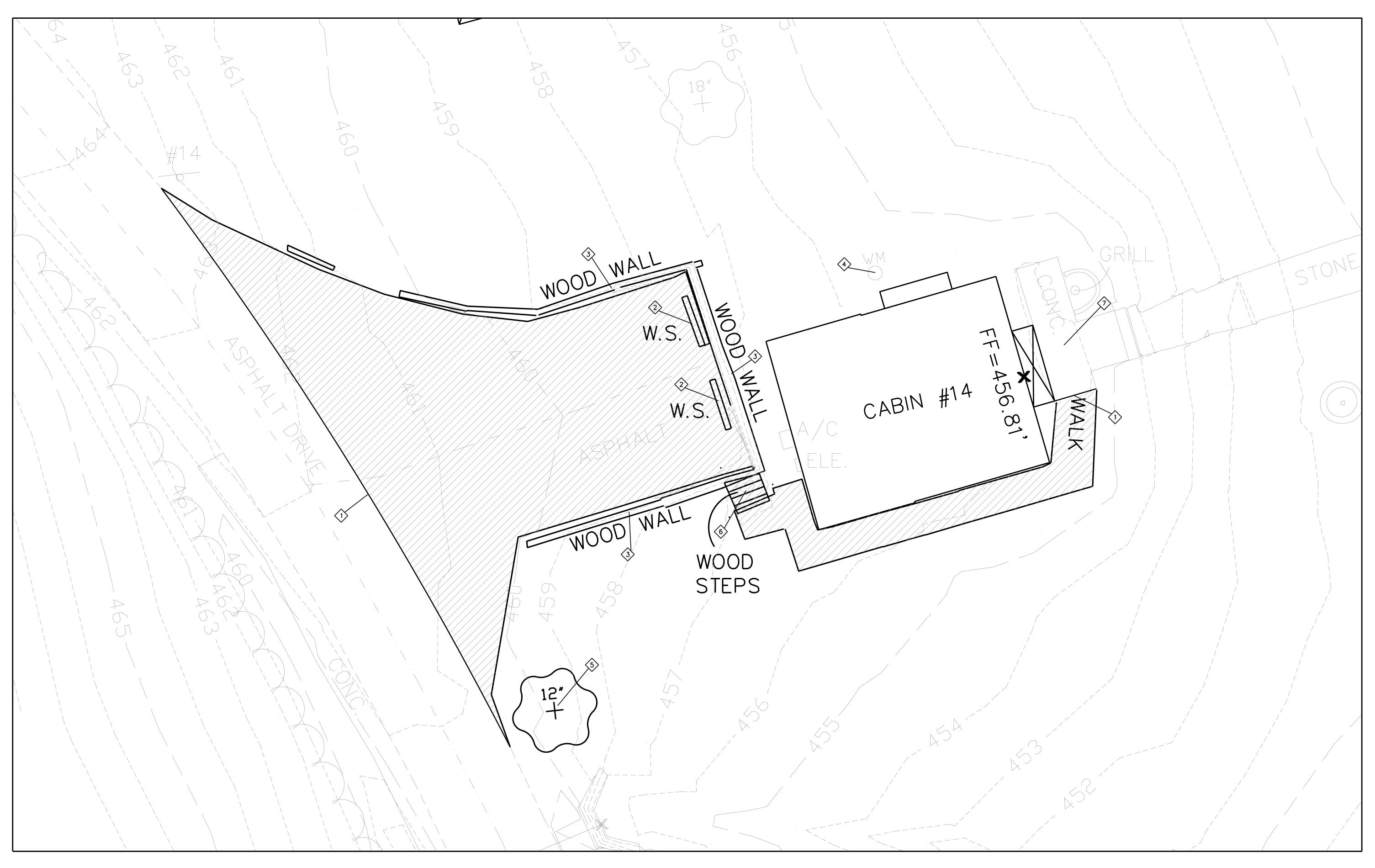
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DEMOLITION PLAN (CABIN 4)

SHEET NUMBER:

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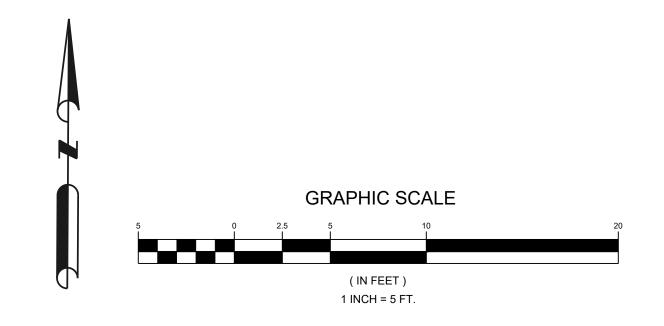
PAVEMENT REMOVAL

# KEYED NOTES:

- SAWCUT PAVEMENT (FULL DEPTH)
- 2 REMOVE WHEELSTOPS
- 3 REMOVE RETAINING WALL
- UTILITY TOP ADJUST TO FINISH GRADE AS REQUIRED
- SEE DRAWING NOTE 1)
- 6 REMOVE WOOD STEPS
- (SEE ARCHITECTURAL FOR TOPPING SLAB)

# **DRAWING NOTES:**

TREE REMOVAL WILL REQUIRE A DNR-MSP NATURAL RESOURCE CLEARANCE SUBMITTED BY MSP STAFF. COORDINATE SITEWORK TO AVOID REMOVAL OF AS MANY TREES AS IS FEASIBLE.



# STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
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CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
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PROJECT # X2319-01

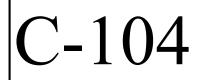
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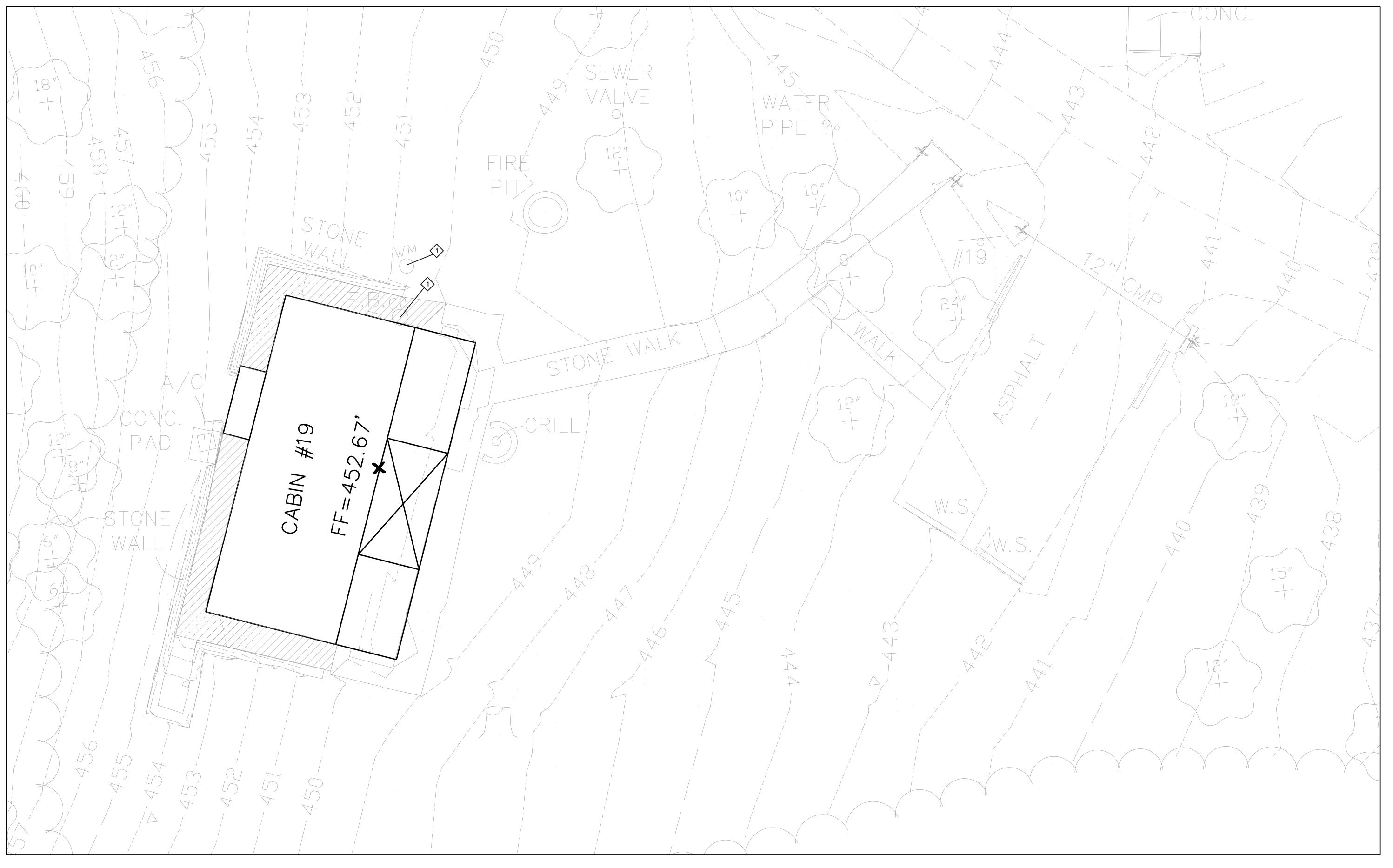
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DEMOLITION PLAN (CABIN 14)

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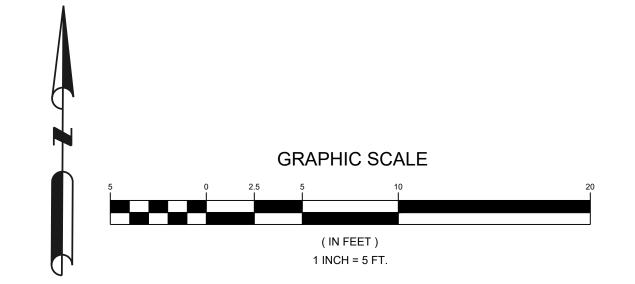




PAVEMENT/ROCK REMOVAL

KEYED NOTES:

UTILITY TOP - ADJUST TO FINISH GRADE AS REQUIRED



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



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DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

> 7815218008 7815218007

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7815218005

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01

SITE#

ASSET # CABIN #1:

CABIN #2:

CABIN #3:

CABIN #4:

CABIN #14:	7815218003
CABIN #19:	7815218019
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DATE: _	
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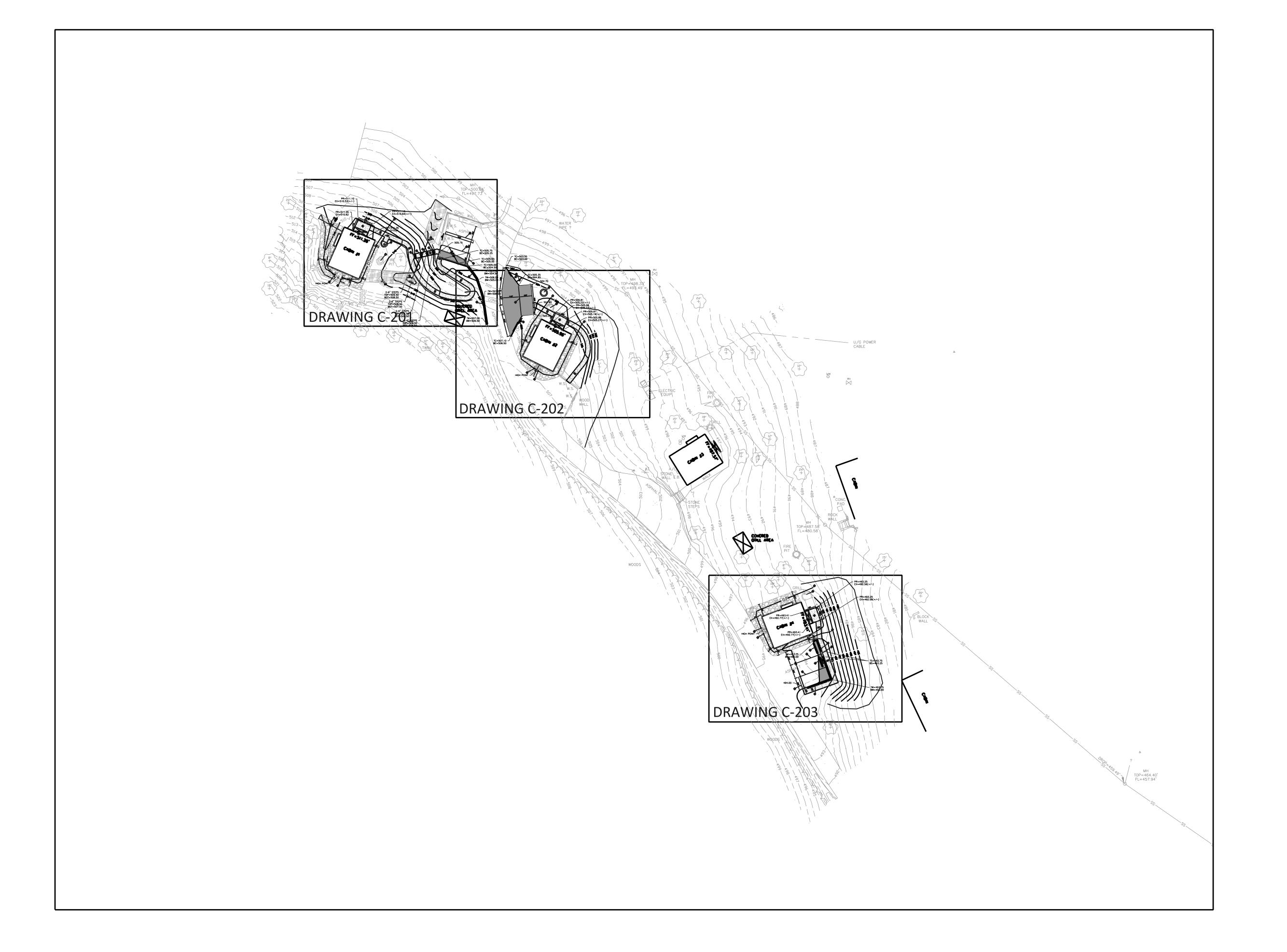
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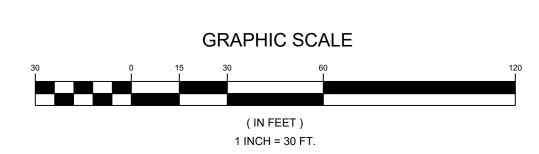
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SHEET NUMBER:

C-105







# STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC. ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



# OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3: CABIN #4: 7815218005 CABIN #14: 7815218003 CABIN #19: 7815218019

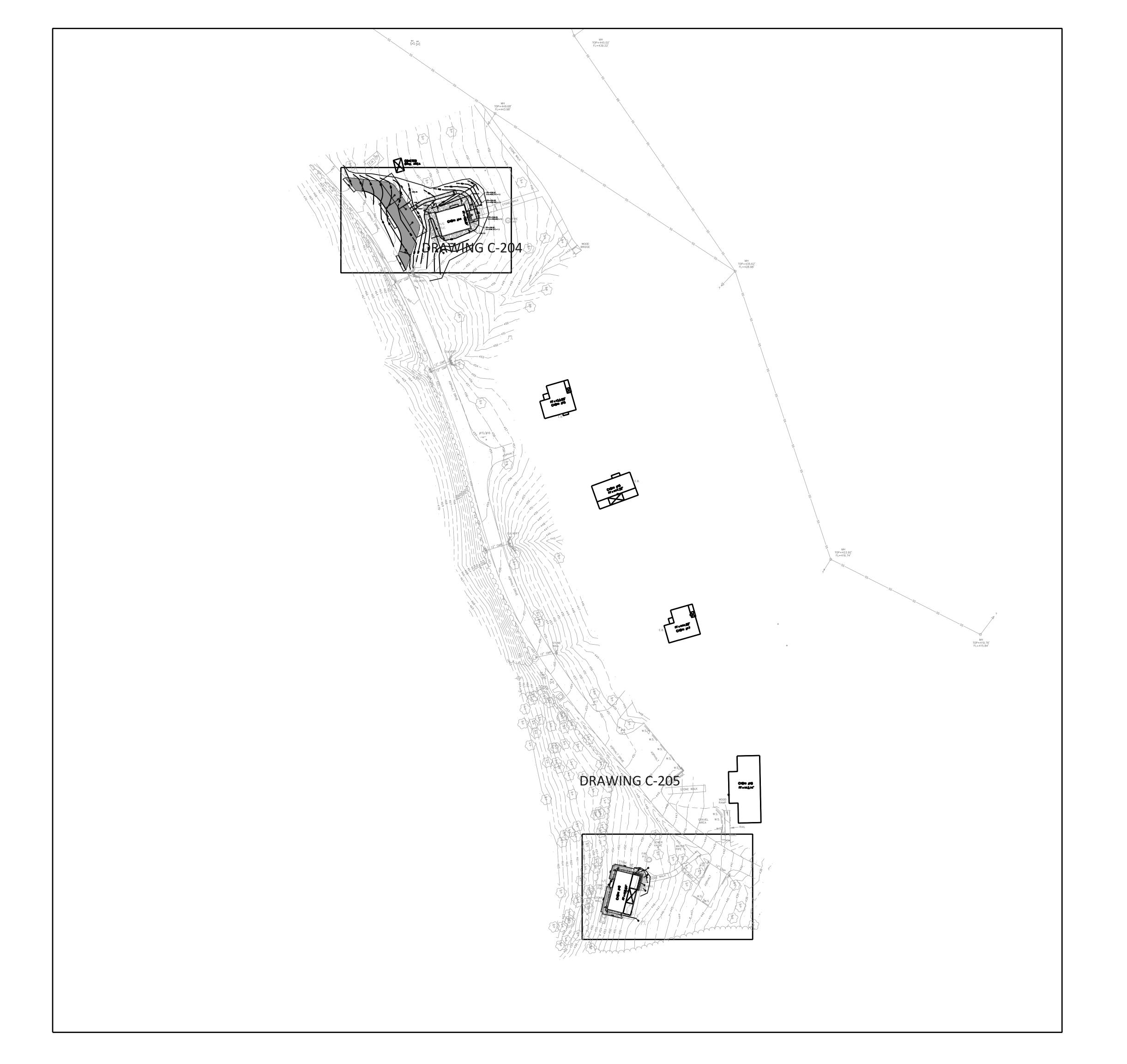
REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE: 04/17/24

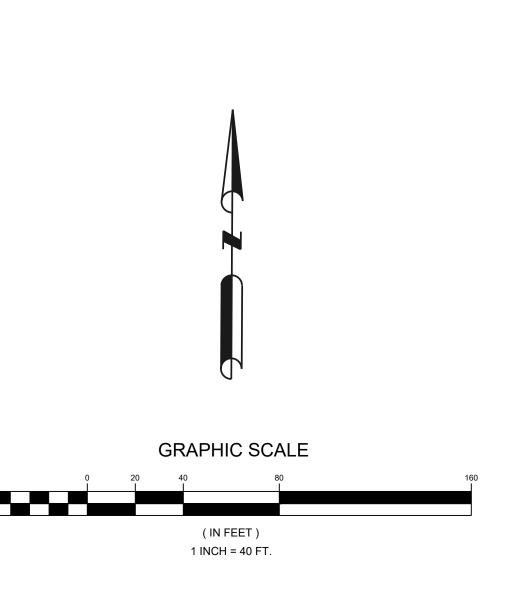
CAD DWG FILE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:
JEF

SHEET TITLE:

OVERALL SITE PLAN (NORTH)

SHEET NUMBER:





## STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JOHN E FALK - CIVIL ENGINEER
MO PE-2003001031

STATE OF MISSOURI
CIVIL DESIGN, INC.
ENGINEERING CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY
NO. 2002006804

PROFESSIONAL SEAL



# OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL

# RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT #	X2319-01
SITE#	
ASSET #	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
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ISSUEDATE: 04/17/24

CAD DWG FILE:

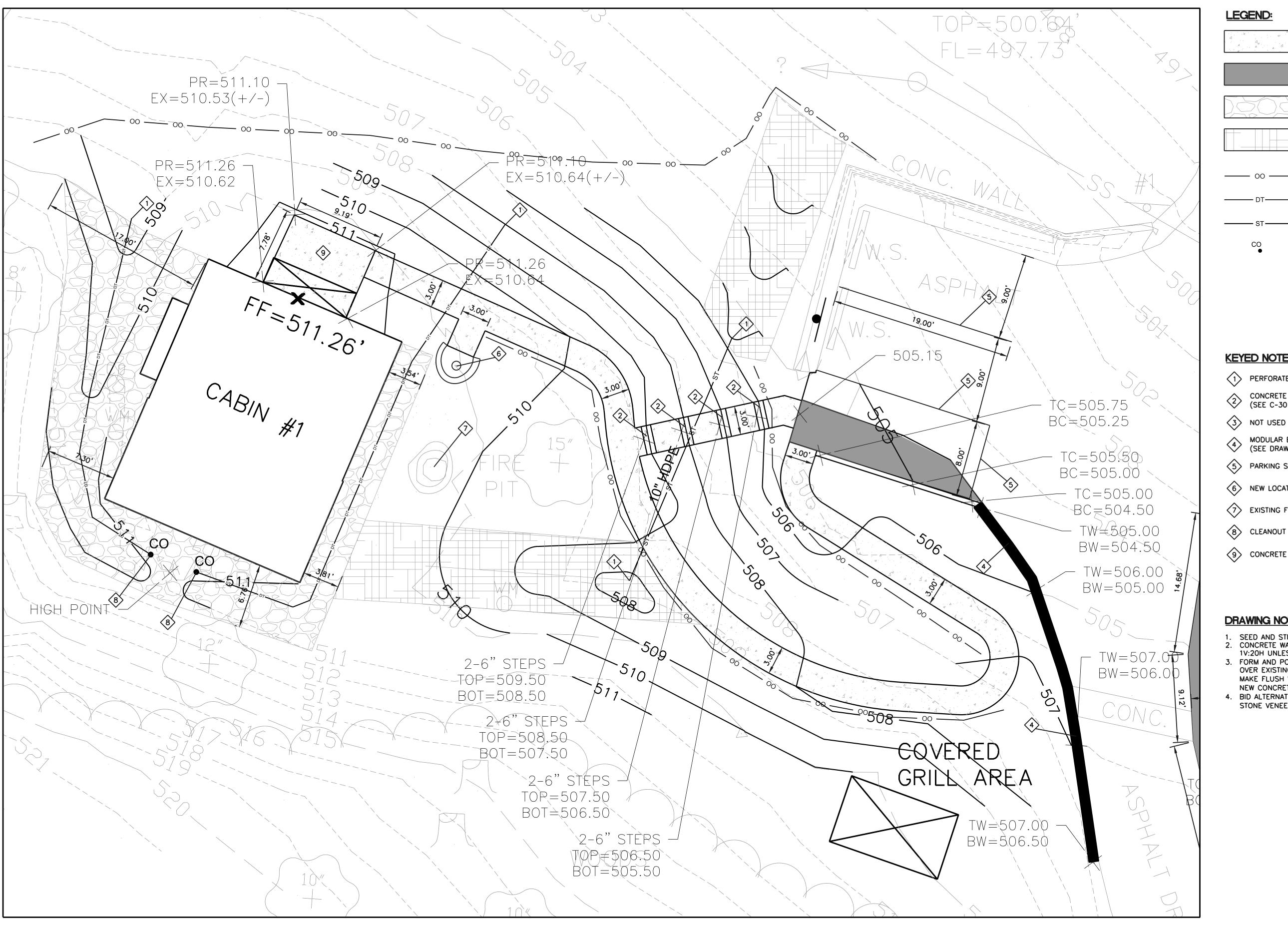
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DRAWN BY:
CHECKED BY:
DESIGNED BY:
JE

SHEET TITLE:

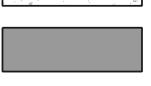
OVERALL SITE PLAN (SOUTH)

SHEET NUMBER:

C-200.2



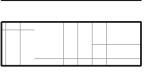
CONCRETE SIDEWALK (SEE C-300/A)



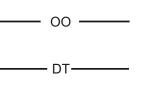
ASPHALT PAVEMENT (SEE C-300/D)



ROCK LINED DRAINAGE AREA (SEE C-300/I)

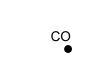


VEGETATED DITCH WITH TRM (SEE C-300/H)



SILTATION FENCE (SEE C-302/A) STORM DRAIN TILE PIPE (4 INCH PERFORATED)

STORM SEWER PIPE



STORM CLEANOUT

(10 INCH SOLID)

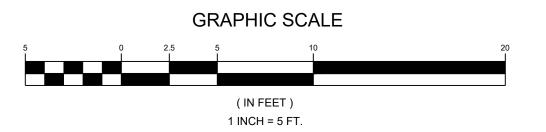
# KEYED NOTES:

- PERFORATED PIPE OUTLET (CUT PIPE TO MATCH HILL SLOPE)
- CONCRETE STEP (2-6" RISERS WITH 2-12" TREADS) (SEE C-301/B)
- MODULAR BLOCK RETAINING WALL (SEE C-300/G) (SEE DRAWING NOTE 4 FOR ALTERNATE INFORMATION)
- 5 PARKING STALL STRIPING (WHITE PAINT)
- 6 NEW LOCATION FOR RELOCATED GRILL
- 7 EXISTING FIRE PIT DO NOT DISTURB
- 8 CLEANOUT (SEE C-301/A)
- 9 CONCRETE OVERLAY (SEE DRAWING NOTE 3)

#### **DRAWING NOTES:**

- . SEED AND STRAW ALL GRASS DISTURBANCE AREAS.
  CONCRETE WALKS SHALL NOT SLOPE MORE THAN
  1V:20H UNLESS SPECIFICALLY CALLED OUT.
- 3. FORM AND POUR 8" (APPROXIMATE) OF CONCRETE OVER EXISTING CONCRETE STOOP IN ORDER TO MAKE FLUSH WITH DOOR SILL (SLOPE SURFACE OF
- NEW CONCRETE AWAY FROM DOOR AT 2% MAX) 4. BID ALTERNATE #3 - POURED CONCRETE WALL WITH STONE VENEER (SEE C-301/D)





#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



**OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 7815218005 CABIN #4: CABIN #14: 7815218003 CABIN #19: 7815218019

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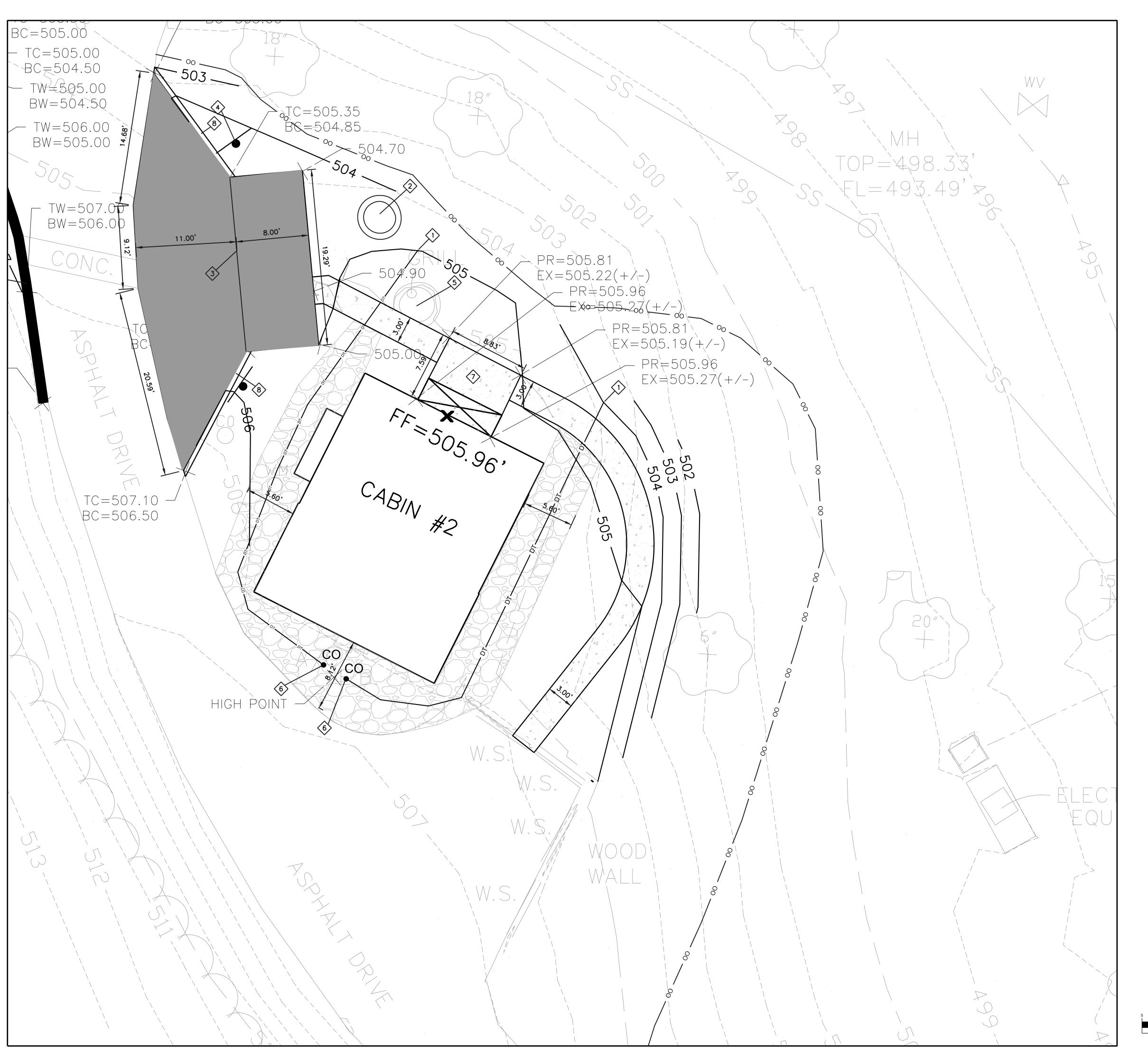
CHECKED BY: <u>JE</u> DESIGNED BY: <u>JE</u>

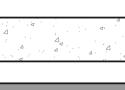
SHEET TITLE:

SITE PLAN (CABIN 1)

SHEET NUMBER:

|C-201|

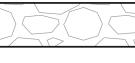




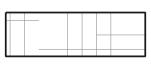
CONCRETE SIDEWALK (SEE C-300/A)



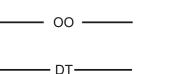
ASPHALT PAVEMENT (SEE C-300/D)



ROCK LINED DRAINAGE AREA (SEE C-300/I)



VEGETATED DITCH WITH TRM (SEE C-300/H)



SILTATION FENCE (SEE C-302/A) STORM DRAIN TILE PIPE (4 INCH PERFORATED)

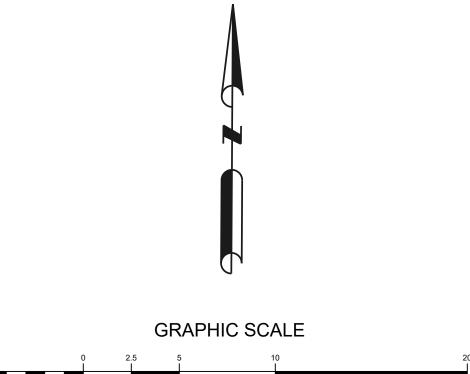
STORM CLEANOUT

#### KEYED NOTES:

- PERFORATED PIPE OUTLET (CUT PIPE TO MATCH HILL SLOPE)
- 2 NEW LOCATION FOR RELOCATED FIRE PIT
- 3 PARKING STALL STRIPING (WHITE PAINT)
- 4 NEW LOCATION FOR RELOCATED CABIN #2 SIGN
- 5 EXISTING GRILL DO NOT DISTURB
- 6 CLEANOUT (SEE C-301/A)
- CONCRETE OVERLAY (SEE DRAWING NOTE 3)
- 8 6 INCH TALL ASPHALT CURB

# **DRAWING NOTES:**

- SEED AND STRAW ALL GRASS DISTURBANCE AREAS.
- CONCRETE WALKS SHALL NOT SLOPE MORE THAN 1V:20H UNLESS SPECIFICALLY CALLED OUT.
- 3. FORM AND POUR 8" (APPROXIMATE) OF CONCRETE OVER EXISTING CONCRETE STOOP IN ORDER TO MAKE FLUSH WITH DOOR SILL (SLOPE SURFACE OF NEW CONCRETE AWAY FROM DOOR AT 2% MAX)



(IN FEET)

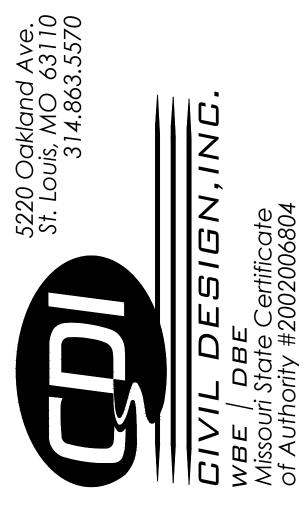
1 INCH = 5 FT.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

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OFFICE OF ADMINISTRATIO **DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3: 7815218005 CABIN #4: 7815218003 CABIN #14: CABIN #19: 7815218019 REVISION: DATE:

PROJECT # X2319-01

**REVISION:** DATE: **REVISION:** DATE: ISSUEDATE: 04/17/24

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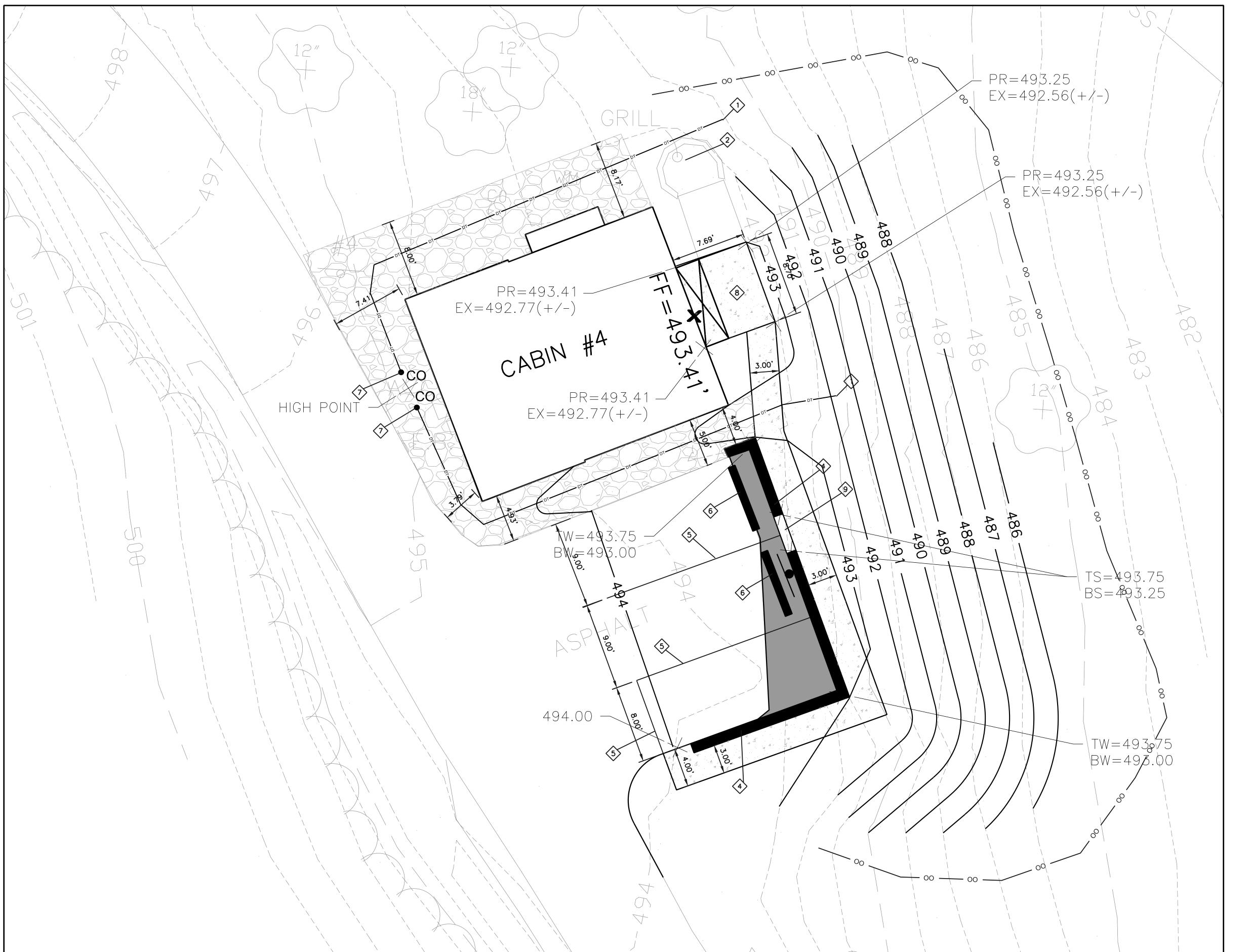
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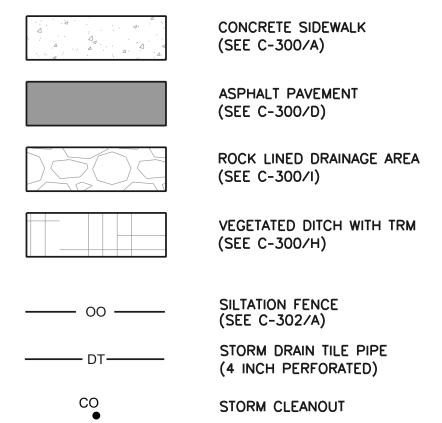
SITE PLAN

(CABIN 2)

SHEET NUMBER:

C-202





#### KEYED NOTES:

- PERFORATED PIPE OUTLET (CUT PIPE TO MATCH HILL SLOPE)
- 2 EXISTING GRILL DO NOT DISTURB
- NOT USE
- MODULAR BLOCK RETAINING WALL (SEE C-300/G)
  (SEE DRAWING NOTE 4 FOR ALTERNATE INFORMATION)
- 5 PARKING STALL STRIPING (WHITE PAINT)
- 6 PRECAST CONCRETE WHEELSTOP
- 7 CLEANOUT (SEE C-301/A)
- 8 CONCRETE OVERLAY (SEE DRAWING NOTE 3)
- 9 6" CONCRETE STEP

#### **DRAWING NOTES:**

- 1. SEED AND STRAW ALL GRASS DISTURBANCE AREAS.
  2. CONCRETE WALKS SHALL NOT SLOPE MORE THAN
- 1V:20H UNLESS SPECIFICALLY CALLED OUT.

  3. FORM AND POUR 8" (APPROXIMATE) OF CONCRETE OVER EXISTING CONCRETE STOOP IN ORDER TO MAKE
- FLUSH WITH DOOR SILL (SLOPE SURFACE OF NEW CONCRETE AWAY FROM DOOR AT 2% MAX)

  4. BID ALTERNATE #3 POURED CONCRETE WALL WITH

STONE VENEER (SEE C-301/D)

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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STATE OF MISSOURI
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SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

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PROJECT # X2319-01

DATE:
REVISION:
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DATE:
ISSUEDATE: 04/17/24

CAD DWG FILE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:
JE

SHEET TITLE:

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SITE PLAN (CABIN 4)

SHEET NUMBER:

C-203

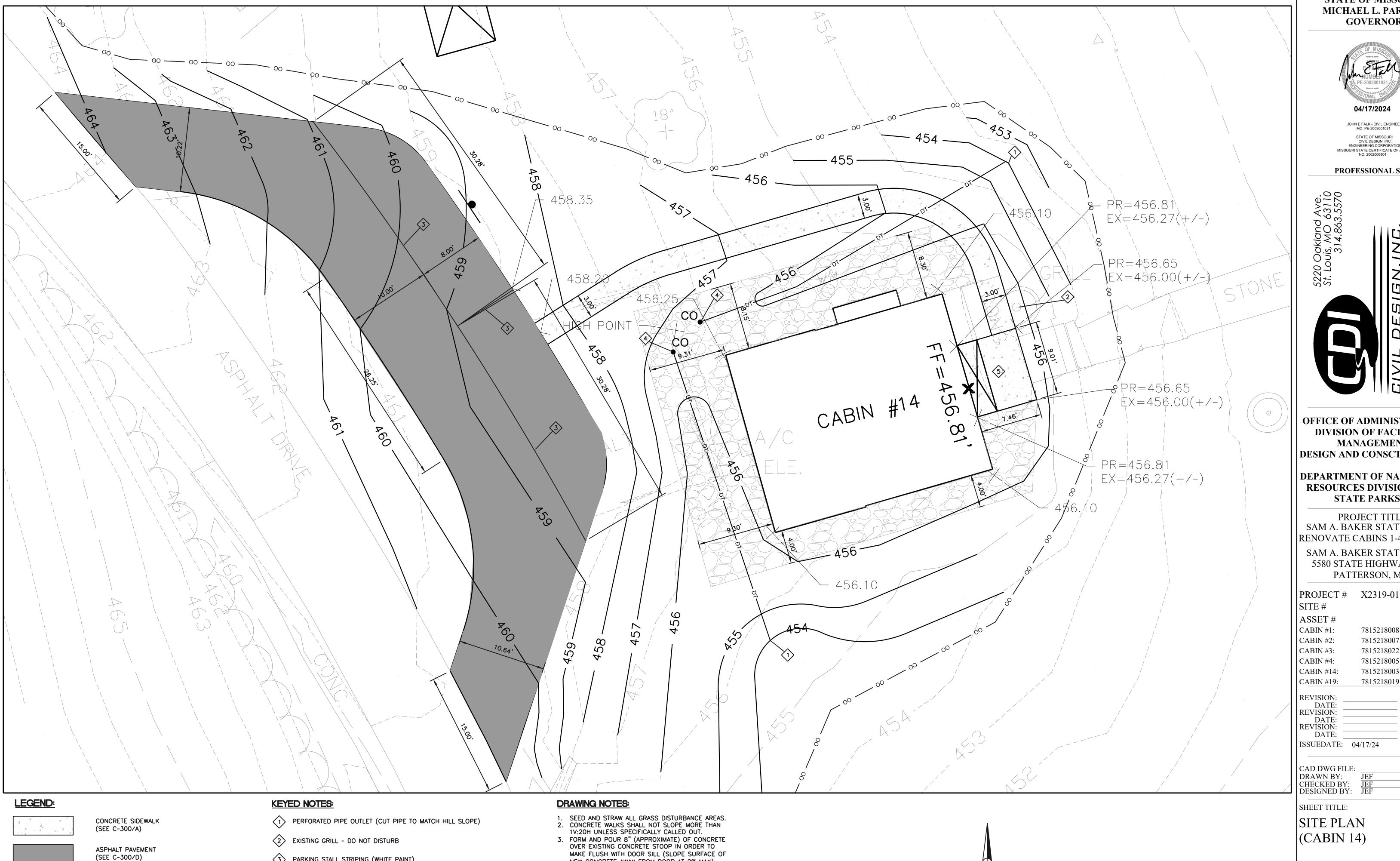
17 OF 54 SHEETS 04/17/24



**GRAPHIC SCALE** 

(IN FEET)

1 INCH = 5 FT.



# ROCK LINED DRAINAGE AREA (SEE C-300/I) SILTATION FENCE (SEE C-302/A) STORM DRAIN TILE PIPE (4 INCH PERFORATED)

STORM CLEANOUT

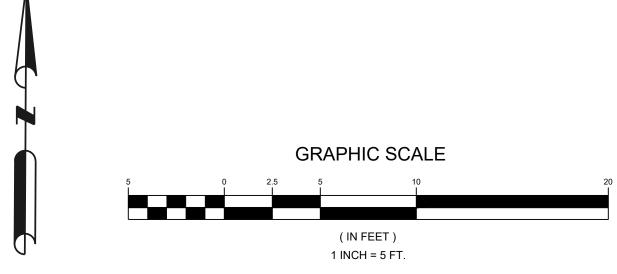
CO

3 PARKING STALL STRIPING (WHITE PAINT)

4 CLEANOUT (SEE C-301/A)

5 CONCRETE OVERLAY (SEE DRAWING NOTE 3)

MAKE FLUSH WITH DOOR SILL (SLOPE SURFACE OF NEW CONCRETE AWAY FROM DOOR AT 2% MAX)



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



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SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

7815218008

7815218007

7815218022

7815218005

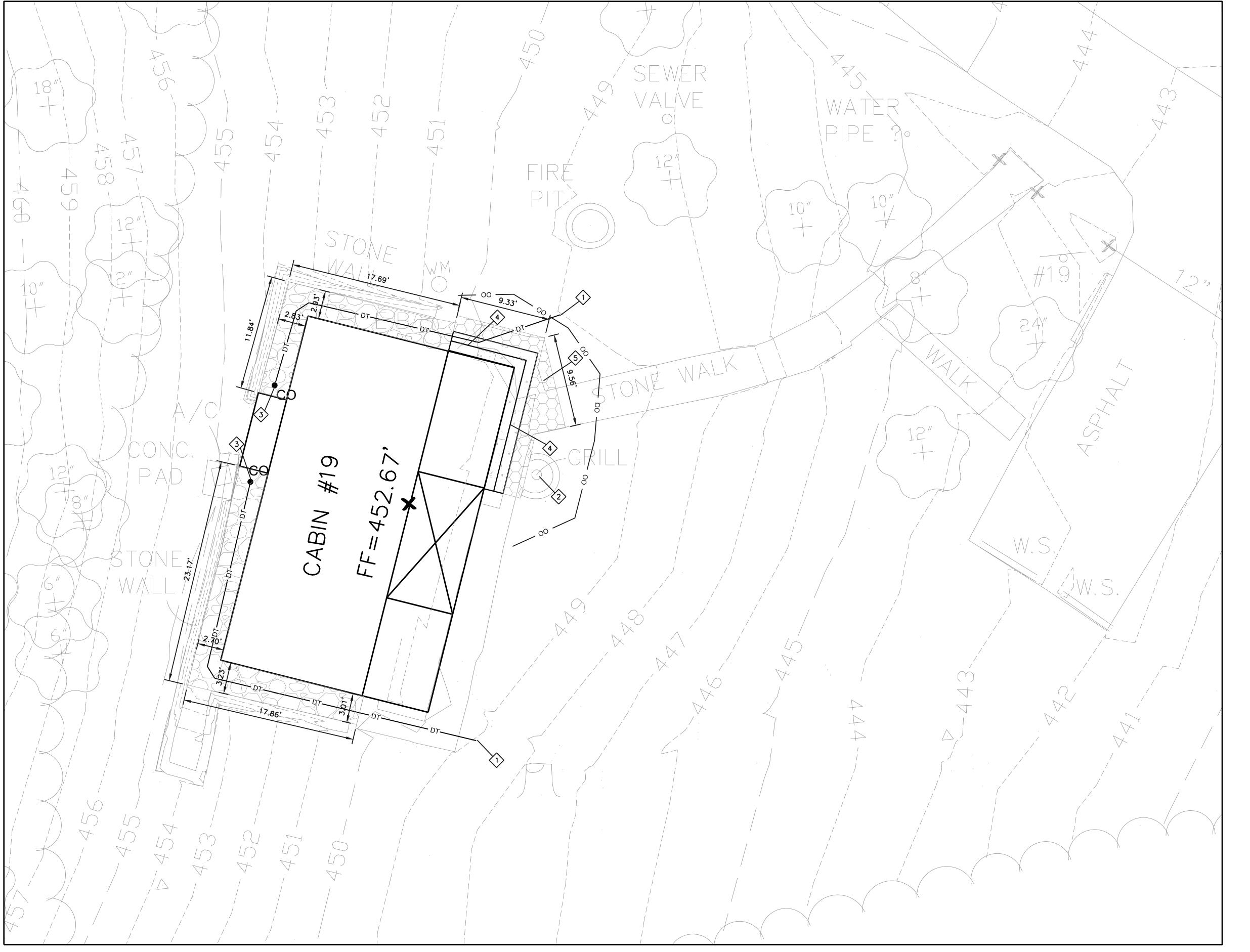
CABIN #14: 7815218003 CABIN #19: 7815218019 REVISION: DATE: **REVISION:** DATE: REVISION: DATE: ISSUEDATE: 04/17/24

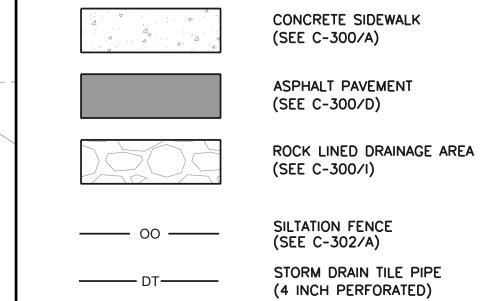
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SITE PLAN (CABIN 14)

SHEET NUMBER:





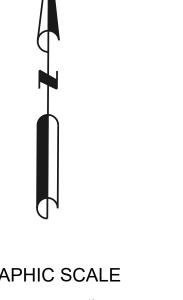
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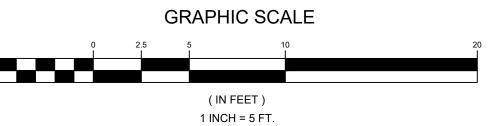
CO

PERFORATED PIPE OUTLET (CUT PIPE TO MATCH HILL SLOPE)

STORM CLEANOUT

- 2 EXISTING GRILL DO NOT DISTURB
- 3 CLEANOUT (SEE C-301/A)
- 4 2 11" STEPS (SEE C-301/B)
- 5 RE-LAY EXISTING STONES





#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



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#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

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SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

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REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE: 04/17/24

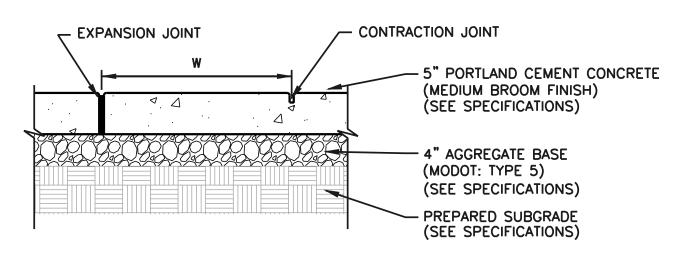
CAD DWG FILE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:
JEF

SHEET TITLE:

SITE PLAN (CABIN 19)

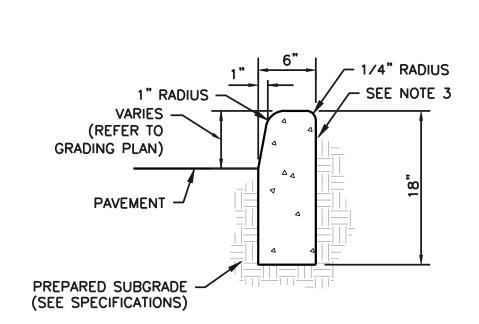
SHEET NUMBER:

C-205



- 1. W=WIDTH OF SIDEWALK; VARIES-SEE PLANS
- 2. SPACE CONTRACTION JOINTS AT W WHERE APPLICABLE-SEE PLAN. PLACE EXPANSION JOINTS AT 3xW.
- 3. EXPANSION JOINT SHALL BE PLACED THROUGH THE FULL DEPTH OF THE SIDEWALK.

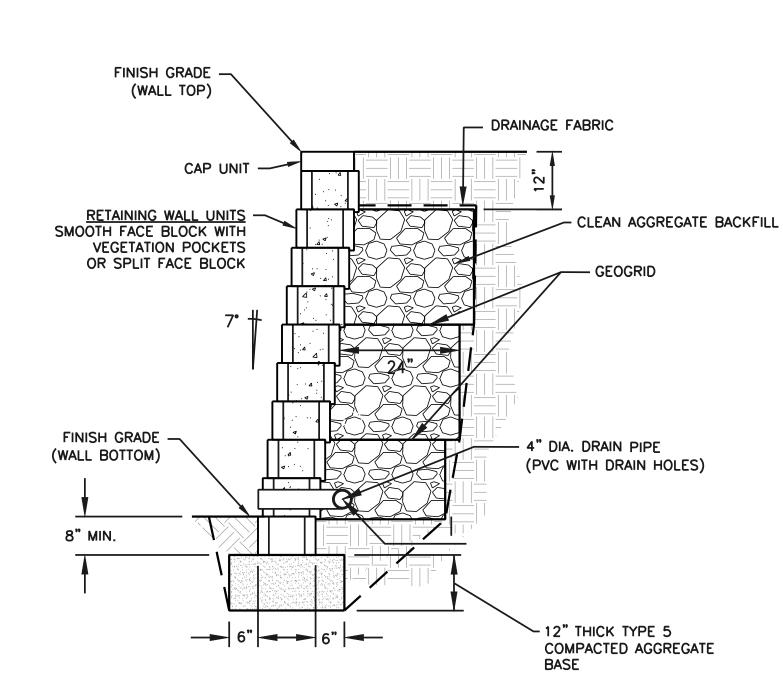




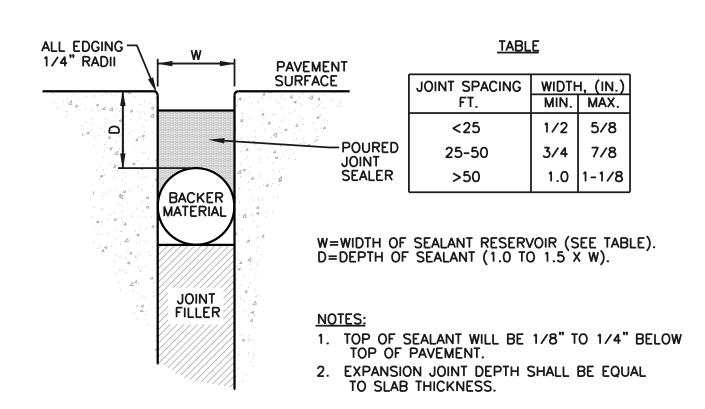
PROVIDE 3/8" MIN WIDE CONTRACTION JOINT IN CURBS @ 20' MAX SPACING O.C. JOINT SHALL BE PREFORMED OR SAWED AT 1/4 THICKNESS OF CURB.

2. PROVIDE EXPANSION JOINT IN CURB AT 80' MAX SPACING O.C. JOINT SHALL BE FULL DEPTH WITH 1" THICK PREFORMED EXPANSION JOINT

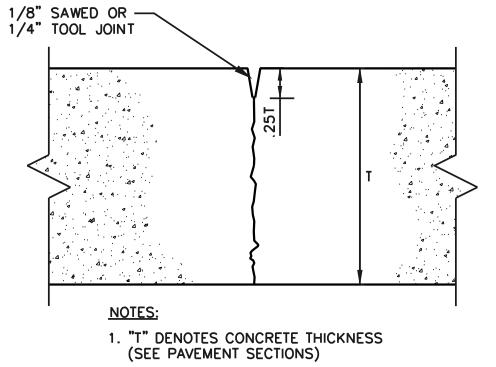






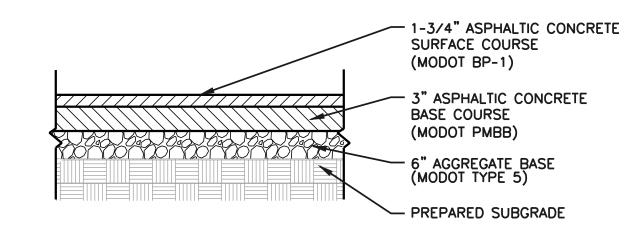




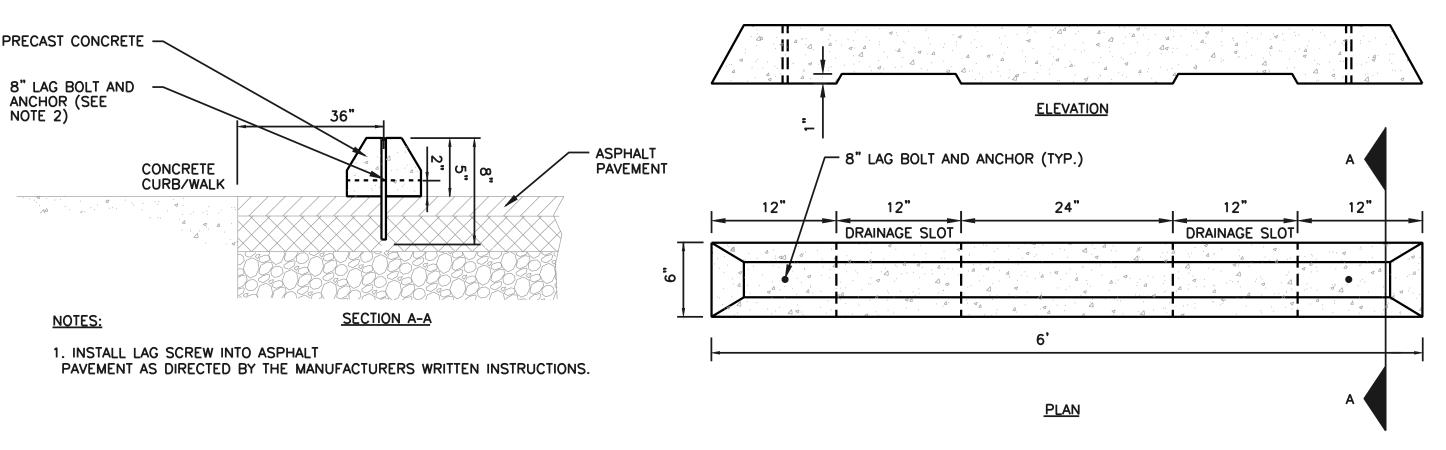


- 2. SAWCUT JOINTS WITHIN 16 HOURS OF PLACEMENT.
- 3. USE ONLY IN CONCRETE WALKS.

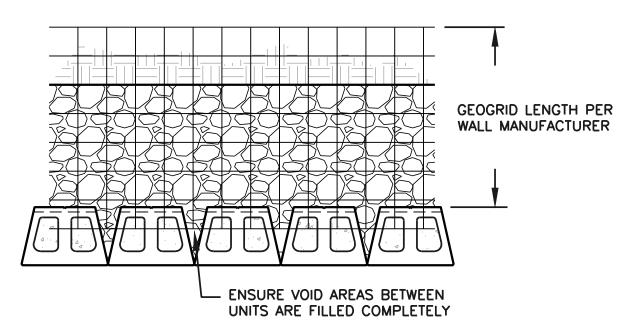








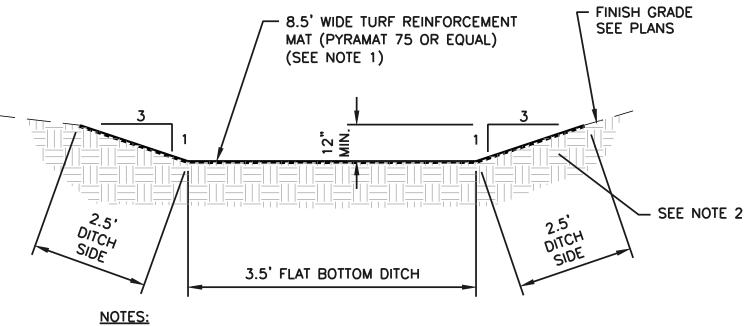
PRECAST CONCRETE WHEEL STOP NOT TO SCALE



#### NOTES:

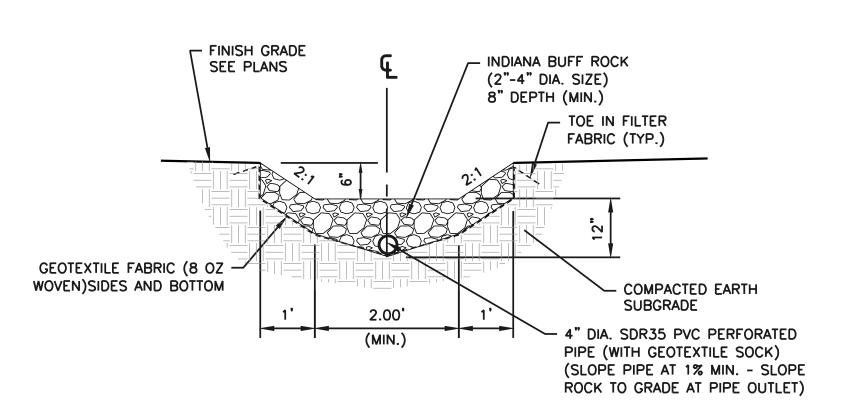
NOTE 2)

- 1. CONTRACTOR SHALL SUBMIT BLOCK UNIT SELECTION TO OWNER'S REPRESENTATIVE FOR REVIEW AND
- 2. ON-SITE SOILS SHALL BE FREE OF CLUMPS, ROCKS LARGER THAN 4 INCHES, AND/OR ANY ORGANIC MATERIALS. DO NOT USE HIGH PLASTIC SOILS THAT HAVE A PI>20 OR LL>40.
- GEOGRID SHALL BE MIRAGRID 2XT OR 3XT. THE GEOGRID'S PRIMARY STRENGTH DIRECTION IS PERPENDICULAR TO THE WALL FACE, AND MUST BE PLACED IN THIS ORIENTATION. PLACE GEOGRID FULLY WITHIN THE BLOCK AND ALL SLACK MUST BE REMOVED PRIOR TO PLACING ADDITONAL
- 4. FILTER FABRIC SHALL BE MIRAFI 140NL. SECURELY FASTEN FILTER FABRIC TO EXCAVATION LINE PRIOR TO BACKFILLING.
- THE LEVELING PAD SHALL BE CONSTRUCTED OF WELL GRADED CRUSHED LIMESTONE SIMILAR TO 1 INCH MINUS, AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. THE EXPOSED SOIL BENEATH THE LEVELING PAD SHALL BE OBSERVED AND VERIFIED TO HAVE A NET BEARING PRESSURE OF 2000 PSF. UNDERCUT ANY UNSUITABLE SOILS. UNDERCUT AREAS SHALL BE FILLED WITH CRUSHED LIMESTONE AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. DO NOT CONSTRUCT WALL IF EXCAVATED SOILS ARE WET OR FROZEN.
- SEE SITE PLAN AND WALL PROFILES FOR TOP AND BOTTOM WALL ELEVATIONS AND APPROXIMATED WALL QUANTITIES.
- WALL DESIGN SHOWN IS A TYPICAL SECTION. CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO PROVIDE STRUCTURAL DESIGN CALCULATIONS FOR THE MODULAR BLOCK WALL. CALCULATIONS SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.



- CONTRACTOR SHALL INSTALL TURF REINFOREMENT MAT PER MANUFACTURER'S
- WRITTEN INSTRUCTIONS. COMPACTED EARTH SUBGRADE.
- SEED DITCH AREA (BOTTOM AND SIDES) WITH ALL PURPOSE SUN/SHADE SEED FESCUE SEED MIX PER MANUFACTURER'S SPECIFICATIONS.











JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 CIVIL DESIGN, INC. MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



**OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSCTRUCTIO** 

# DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK |RENOVATE CABINS 1-4, 14, & 1

SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

7815218008

PATTERSON, MO PROJECT # X2319-01

CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005 CABIN #14: 7815218003 CABIN #19: 7815218019 **REVISION:** DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUEDATE: 04/17/24

CAD DWG FILE: DRAWN BY: **CHECKED BY:** DESIGNED BY:

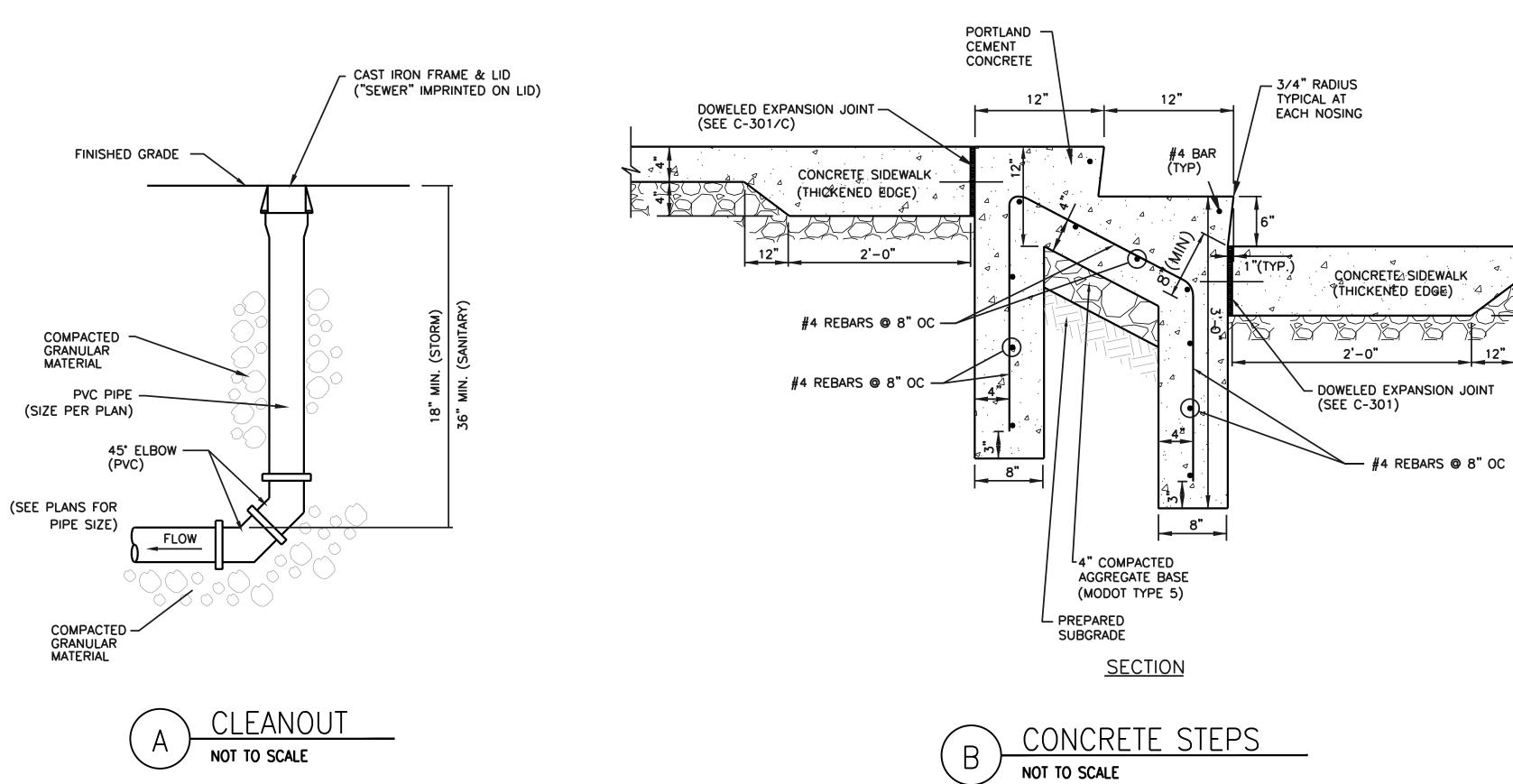
SITE#

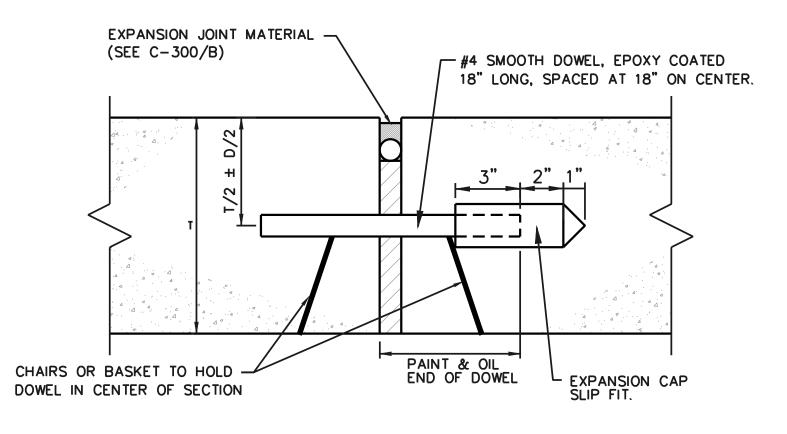
ASSET # CABIN #1:

SHEET TITLE:

CIVIL DETAILS

SHEET NUMBER:





NOTES:

TEE POST

W/ SPADE BASE

EXISTING GROUND

GEOTEXTILE FABRIC (MIRAFI 100 X OR EQUAL) ATTACHED

TO WIRE FRAME -

FLOW

- 1. "D" DENOTES DOWEL DIAMETER
- 2. "T" DENOTES CONCRETE THICKNESS (SEE PAVEMENT SECTIONS)
- 3. DOWELS SHALL BE EPOXY COATED.
- EXPANSION JOINT DOWELED NOT TO SCALE

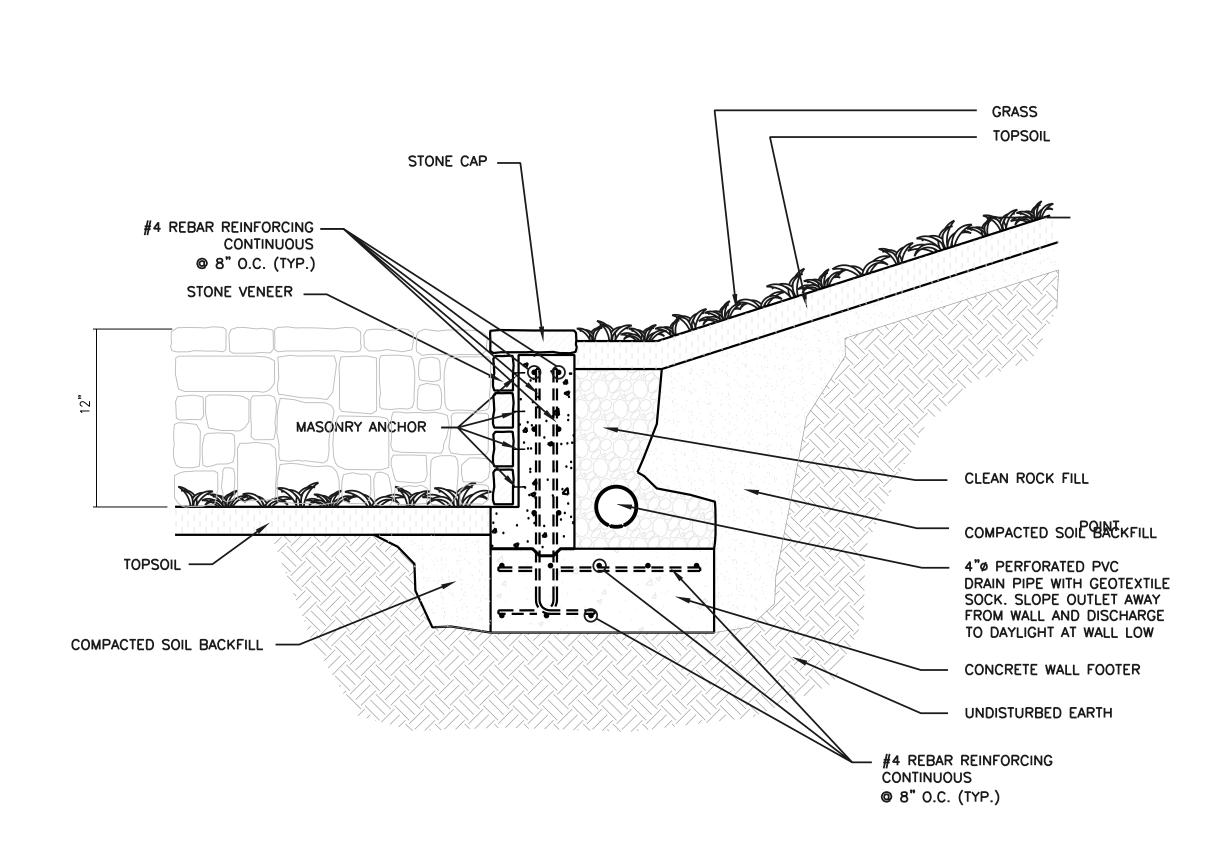
GENERAL NOTES

1. DO NOT SCALE DRAWING, FOLLOW DIMENSIONS.

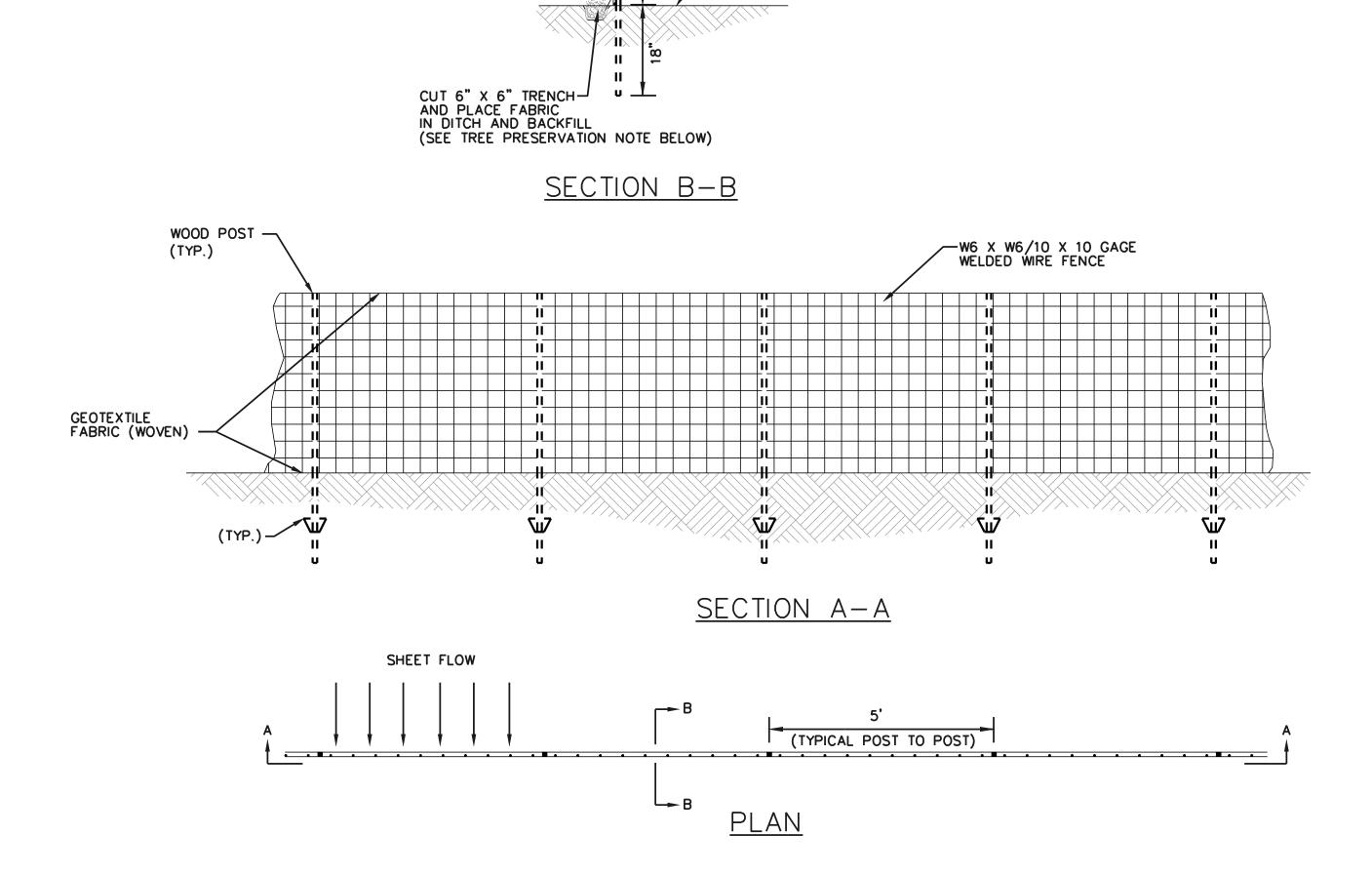
2. SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL 70% VEGETATIVE GROWTH ENSURES NO FURTHER EROSION OF THE SOIL.

3. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED, REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE SILTATION FENCE.

4. ATTACHMENT OF WELDED WIRE FENCE AND GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE



ALTERNATE #3 - CONCRETE WALL WITH STONE VENEER NOT TO SCALE



SILTATION FENCE

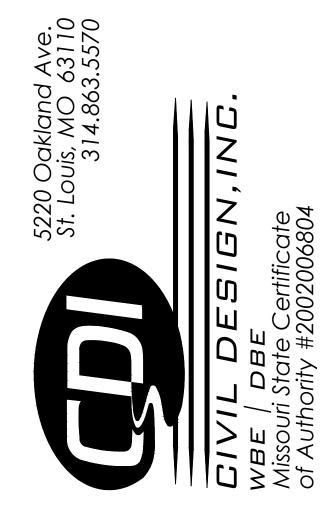
NOT TO SCALE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



JOHN E FALK - CIVIL ENGINEER MO PE-2003001031 STATE OF MISSOURI CIVIL DESIGN, INC.
ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 2002006804

PROFESSIONAL SEAL



**OFFICE OF ADMINISTRATIO DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 1 SAM A. BAKER STATE PARK

5580 STATE HIGHWAY 143 PATTERSON, MO

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3: CABIN #4: 7815218005 7815218003 CABIN #14:

CABIN #19: 7815218019 REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUEDATE: 04/17/24

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

SHEET TITLE:

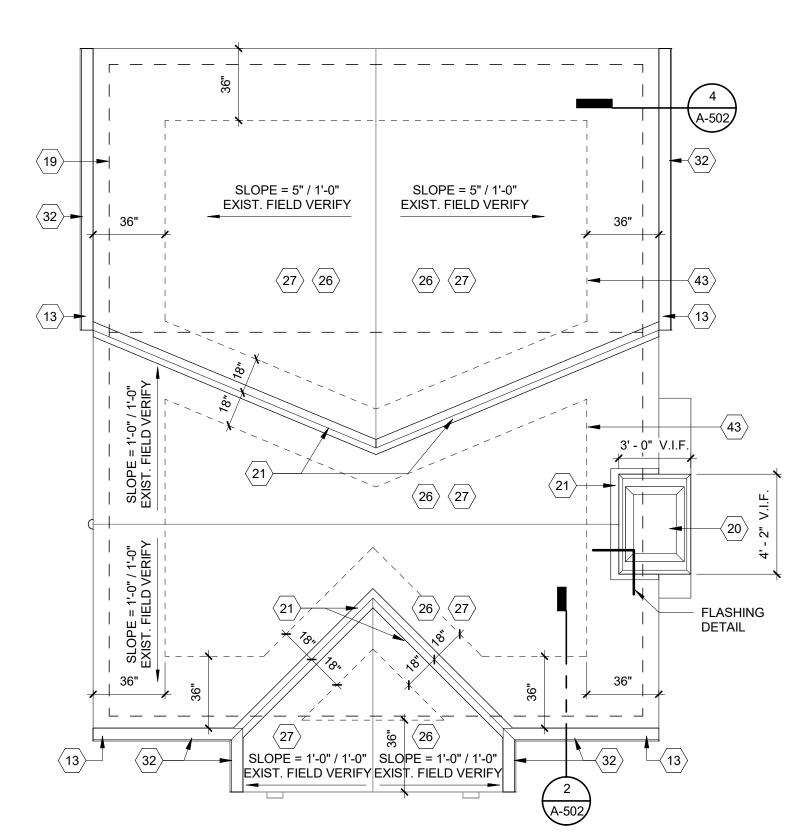
CIVIL DETAILS

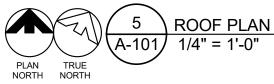
SHEET NUMBER:

- 1. ALL NEW WORK SHALL MEET ALL APPLICABLE CODE AND ORDINANCE REQUIREMENTS. SEE COVER SHEET FOR APPLICABLE CODES.
- SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS. ALL ROOF SLOPES ARE EXISTING.
- ALL SHEET METAL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH THE GUIDELINES AND RECOMMENDATIONS PER THE CURRENT ADDITION OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL
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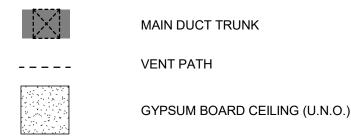
#### **GENERAL NOTES - REFLECTED CEILING PLANS**

- 1. ALL LIGHTS AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND SELECTED BY OWNER.
- 2. CONFIRM ALL LIGHT, SWITCH AND POWER LOCATIONS WITH OWNER.



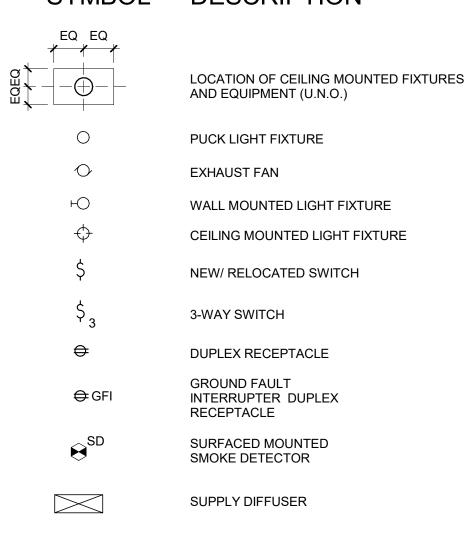


# REFLECTED CEILING PLAN LEGEND



# LIGHTING/ELECTRICAL LEGEND

# DESCRIPTION



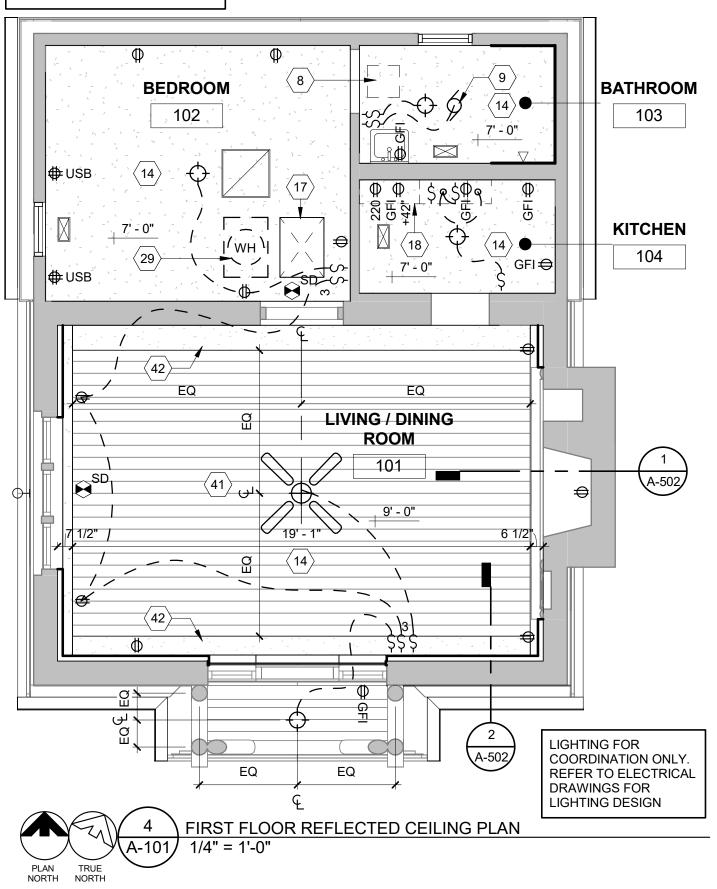
RETURN DIFFUSER

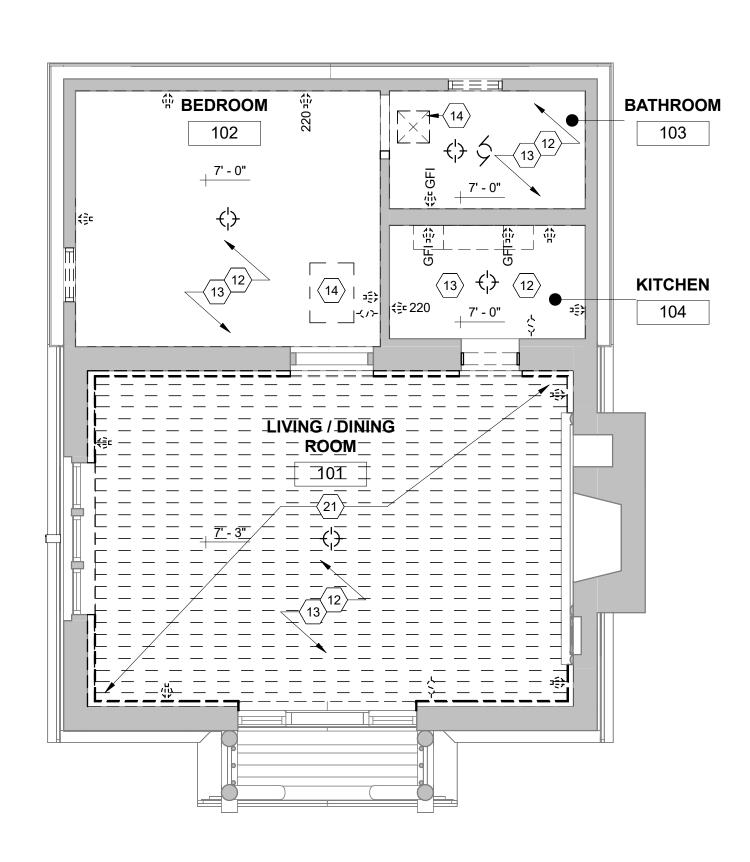
# **GENERAL NOTES - MASONRY RESTORATION**

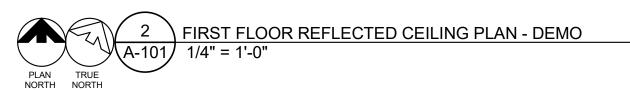
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PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

MEP FOR COORDINATION ONLY REFER TO MEP DRAWINGS FOR HVAC GRILLES, DIFFUSERS, AND REGISTERS LAYOUT

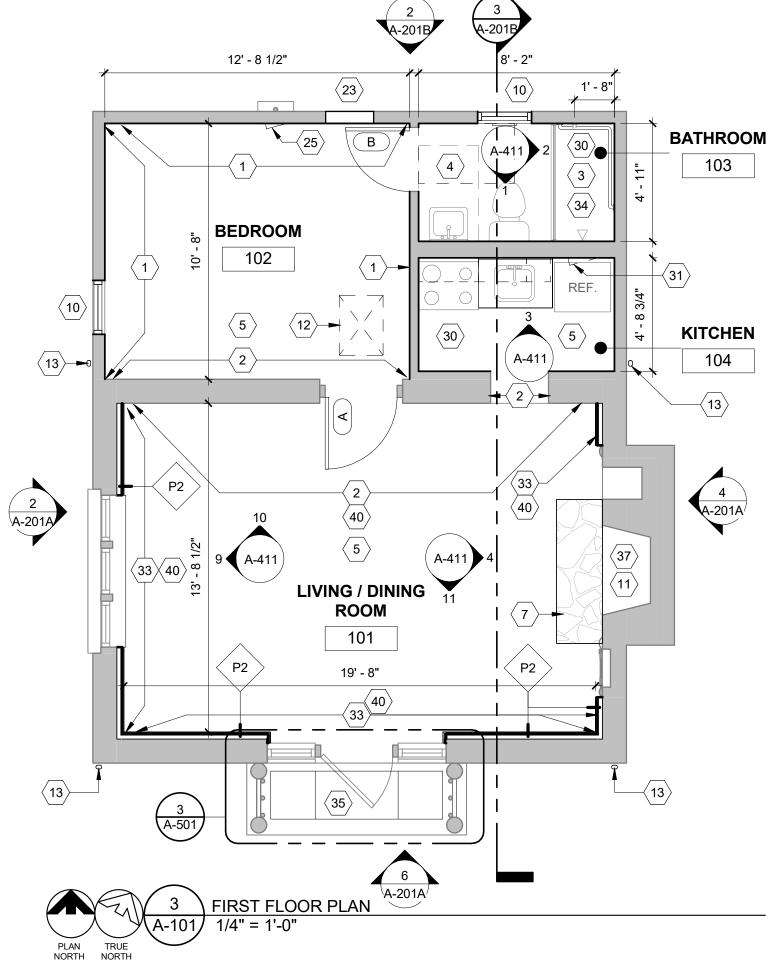


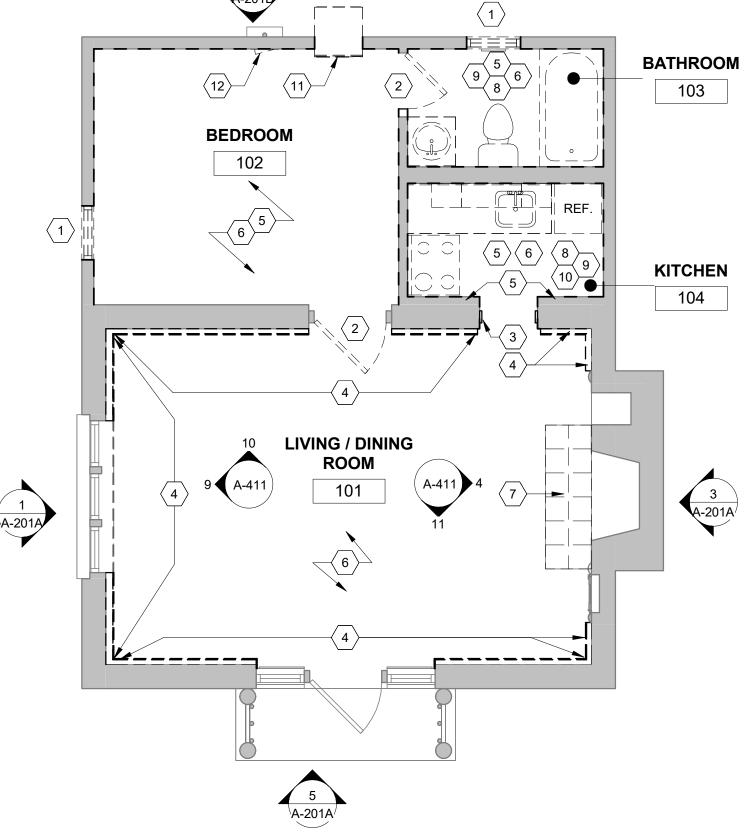




# **GENERAL NOTES - FLOOR PLANS**

- 1. ALL GYPSUM BOARD THROUGHOUT TO BE 5/8" MINIMUM THICKNESS.
- ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
- ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE
- 4. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
- WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS.
- 6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
- FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH





FIRST FLOOR PLAN - DEMO

# **KEYED NOTES - NEW FLOOR PLANS**

- 1 NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- EXPOSED STONE CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN SURROUNDING MASONRY UNITS.
- 6X6 TILE, SELECTED BY OWNER.
- 6X6 CERAMIC FLOOR TILE.
- LUXURY VINYL TILE
- 50 CM X 50 CM CARPET SQUARES STONE TILE HEARTH TO MATCH ADJACENT CABINS, CLEAN AND REFURBISH.
- 8 INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED 9 EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS
- 10 NEW WINDOW IN OPENING SEE ELEV. FOR TYPE NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS
- 11 ALTERNATE #1: PRE-MANUFACTURED FIREPLACE INSERT, PROVIDE NEW POWER. SEE
- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS,
- 14 PROVIDE NEW ELECTRICAL OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT, REFER TO
- ELECTRICAL DRAWINGS
- 15 GYPSUM BOARD SOFFIT BASE BID: VAULTED CEILING. NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING.
- REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- 17 ATTIC ACCESS (22" X 30" MIN.) COORDINATE SIZE WITH HVAC/WATER HEATER DIMENSIONS TO BE INSTALLED IN ATTIC.
- 18 HOOD EXHAUST. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- 19 DASHED LINE INDICATES EXTERIOR WALL BELOW. 20 NEW METAL CHIMNEY CAP
- 21 NEW EXPOSED SHEET METAL VALLEY FLASHING OVER ICE AND WATER SHEILD.
- 22 EXISTING STONE HEARTH 23 INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS REMOVED.
- 24 NEW STONE STEPS 25 NEW ELECTRICAL PANEL
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- BETWEEN EACH LAYER 28 NEW FURNACE AND WATER HEATER
- 29 NEW WATER HEATER TANK WITH DRAIN PAN ABOVE CEILING.
- 30 MOISTURE RESISTANT GYPSUM. G.P. DENSEGLASS OR EQUAL.
- 31 PROVIDE 18 X 18 STEEL ACCESS PANEL DOOR, HINGED WITH LATCH, FOR SHOWER CONTROLS
- 32 NEW 6" HALF ROUND EXTENDED FLANGE GUTTER 33 NEW GYPSUM WALL BOARD. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- ZERO ENTRY PRE-MANUFACTURED SHOWER BASE INSERT. ALLOW SLOT DRAIN SET IN
- RE-POURED CONCRETE FLOOR UNDER EXISTING TUB SHOWER.
- 35 NEW CONCRETE TOPPING SLAB
- 37 NEW FOAM PLUG IN FLUE TO ACHIEVE MIN. R40
- 38 SMOKE DETECTOR LOCATED IN ATTIC 39 NEW SURFACE MOUNTED HANDRAIL
- 40 ALTERNATE #4: WAINSCOAT. SEE PARTITION SCHEDULE, P3 ALTERNATE #4
- 41 EXISTING HARVESTED HALF LOG LUMBER. REATTACH TO NEW 5/8" OSB, PAINT. COLOR BY
- OWNER. REFER TO ROOM FINISH SCHEDULE 42 5/8" GYPSUM BOARD OVER EXISTING ROOF RAFTERS.
- 43 DASHED LINE INDICATES ICE AND WATER SHIELD.
- 44 NEW RELOCATED ELECTRICAL PANEL
- **GENERAL NOTES DEMOLITION:**

- REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
- REFERENCE M/E/P AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION
- DEMOLITION CONTRACTOR (DC) TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. DC TO REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND FIELD
- CONDITIONS. DC EXPLORATORY DEMOLITION SHALL INCLUDE DEMOLITION AT THE REQUEST OF THE STRUCTURAL ENGINEER TO VERIFY CONDITION OF HIDDEN STRUCTURAL ELEMENTS. DC SHALL ENCLOSE AREAS, PROVIDE CHUTES AND ANY RELATED CONSTRUCTION AS
- DEMOLITION WORK. DC IS RESPONSIBLE FOR INSPECTING THE EXISTING BUILDING FOR HAZARDS THAT
- WOULD REQUIRE ENVIRONMENTAL REMEDIATION. DC SHALL NOTIFY OWNER MMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL
- 7. DC TO ENSURE THAT ALL ELEMENTS AND FINISHES THAT ARE CALLED OUT TO REMAIN N BUILDING ARE PROTECTED DURING DEMOLITION AND STORED ONSITE. CARE SHALL BE TAKEN TO AVOID UNDUE DAMAGE TO ADJACENT AREAS AND SURFACES. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ELSEWHERE IN THE
- OWNER TO HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS. DC SHALL LEGALLY DISPOSE OF ALL ITEMS NOT TO BE REUSED IN PROJECT WHEREVER ANY DEMOLITION OCCURS.
- REMOVE ALL MISCELLANEOUS NON-STRUCTURAL METAL STRAPS. PLATES. PIPES. BRACKETS AND ANCHORS FROM INTERIOR FACADE, WALLS AND CEILING. 10. DC IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY NECESSARY PERMITS
- REQUIRED FOR DEMOLITION WORK. 11. DC TO ERECT BARRICADES THAT COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AROUND ALL NEW AND EXISTING FLOOR PENETRATIONS.
- 12. DC TO IDENTIFY AREAS IN NEED OF STRUCTURAL REPAIR OR AREAS OF SLAB AND STRUCTURE THAT SHOW DETERIORATION. CONSULT WITH STRUCTURAL ENGINEER PRIOR TO REMOVING DAMAGED STEEL OR CONCRETE. NOTIFY ARCHITECT AND ENGINEER IF ANY NEW DAMAGE IS IDENTIFIED.
- 13. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) DRAWINGS FOR DEMOLITION OF MEP ITEMS.
- 14. DC TO SHUTOFF/TERMINATE ALL WATER, ELECTRICAL, AND GAS SERVICES PRIOR TO BEGINNING DEMOLITION.
- 15. ALL EXISTING ROOF DRAINS/LINES TO REMAIN. DC TO IDENTIFY AND MAINTAIN ALL EXISTING ROOF DRAINS/LINES ON ALL FLOORS THROUGHOUT DEMOLITION. 16. SHORING/SUPPORTS TO BE PROVIDED AT ALL DEMOLITION LOCATIONS AS REQUIRED BY THE STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS.
- 17. ALL STRUCTURAL COLUMNS, BEAMS, FLOOR/CEILING SLABS TO REMAIN EXCEPT WHERE INDICATED BY STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS.
- 18. COORDINATE THE REMOVAL AND SALVAGING OF EXISTING EQUIPMENT WITH

# **KEYED NOTES - DEMOLITION PLANS**

- REMOVE EXISTING WINDOW.
- REMOVE EXISTING DOOR LEAF. DOOR FRAME TO REMAIN.
- REMOVE EXISTING DOOR FRAME REMOVE EXISTING WALL/PARTITION, OR PORTION THEREOF AS INDICATED, TYP.
- EXISTING PANELING TO BE REMOVED ALONG WITH ALL ASSOCIATED STRUCTURE. REMOVE EXISTING FLOOR FINISH
- PROVIDE EXPLORATORY DEMOLITION OF TILE AT EXISTING HEARTH TO DETERMINE IF HISTORIC STONE SUBSTRATE STILL EXIST.
- REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
- REMOVE ALL EXISTING PLUMBING FIXTURES, TYP.
- 10 REMOVE ALL EXISTING APPLIANCE, TYP. 11 REMOVE EXISTING AC UNIT
- 12 REMOVE EXISTING ELECTRICAL PANEL, OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT.
- 13 REMOVE EXISTING DROP CEILING, LIGHT FIXTURES, AND ASSOCIATED STRUCTURE.
- 14 REMOVE EXISTING ATTIC ACCESS HATCH.
- 15 EXISTING STONE HEARTH TO REMAIN. 16 REMOVE EXISTING STONE STEP. RETAIN FOR REUSE
  - EXISTING WOOD PANELING TO BE REMOVED
  - REMOVE EXISTING FURNACE AND WATER HEATER.
  - REMOVE EXISTING WOOD RAILING AND POSTS. RETAIN FOR REUSE. REMOVE EXISTING GUTTER AND DOWN SPOUT
  - DASHED LINES INDICATE EXPECTED LOCATION OF EXISTING HALF LOG FINISHED CEILING. CAREFULLY REMOVE EXISTING LOGS AND STORE ON SITE FOR EVALUATION AND REUSE. CLEAN AND PREP AREA FOR NEW FINISH.
- REMOVE EXISTING ELECTRICAL PANEL AND RELOCATE TO WALL ADJACENT TO BATHROOM. SEE NEW FLOOR PLANS.

**STATE OF MISSOURI** MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT

STATE OF MISSOURI

PROFESSIONAL SEAL

ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639



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

DEPARTMENT OF NATURAL **RESOURCES DIVISION OF** STATE PARKS

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

7815218005

PROJECT #	X2319-01
SITE#	5218
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ASSET # CABIN #1: 7815218008 **CABIN** #2: 7815218007 7815218022 **CABIN** #3:

**CABIN #4:** 

7815218003 CABIN #14: CABIN #19: 7815218019 REVISION: DATE

REVISION DATE REVISION: DATE: **ISSUEDATE:** 

> CAD DWG FILE: DRAWN BY: CHECKED BY:

DESIGNED BY: SHEET TITLE:

CABIN #1 - FLOOR **PLANS** 

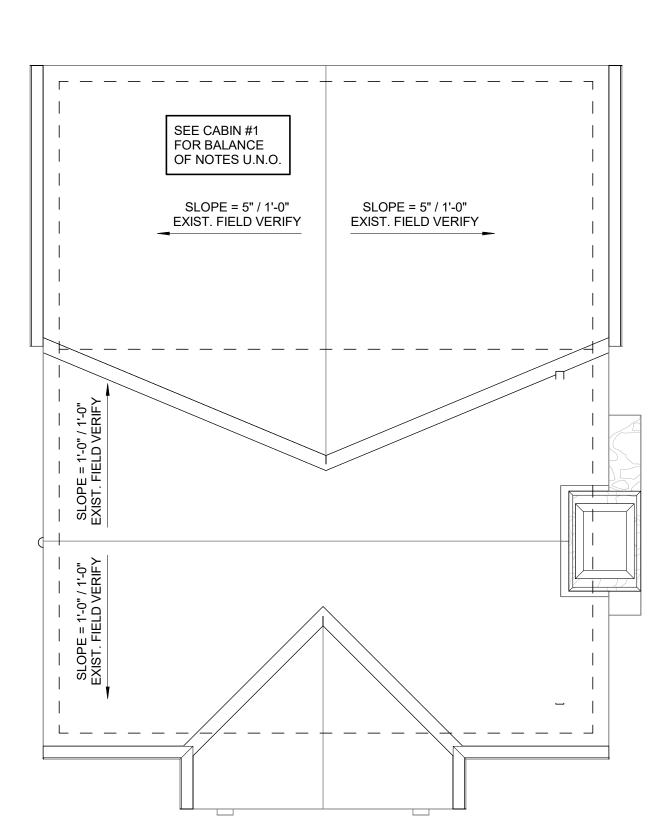
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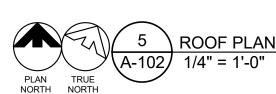
22 OF 54 SHEETS

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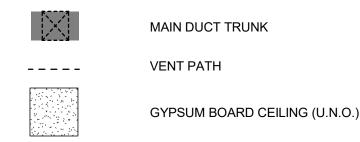
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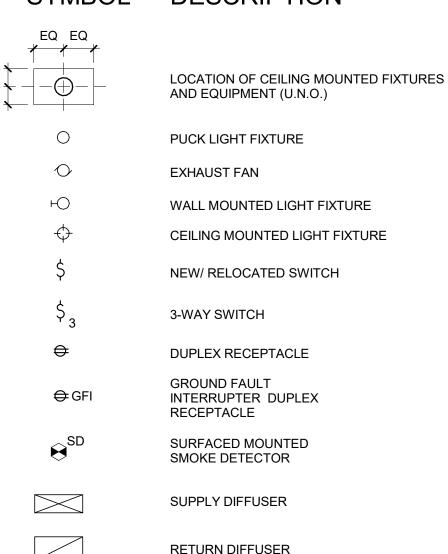


# REFLECTED CEILING PLAN LEGEND



# LIGHTING/ELECTRICAL LEGEND

# DESCRIPTION

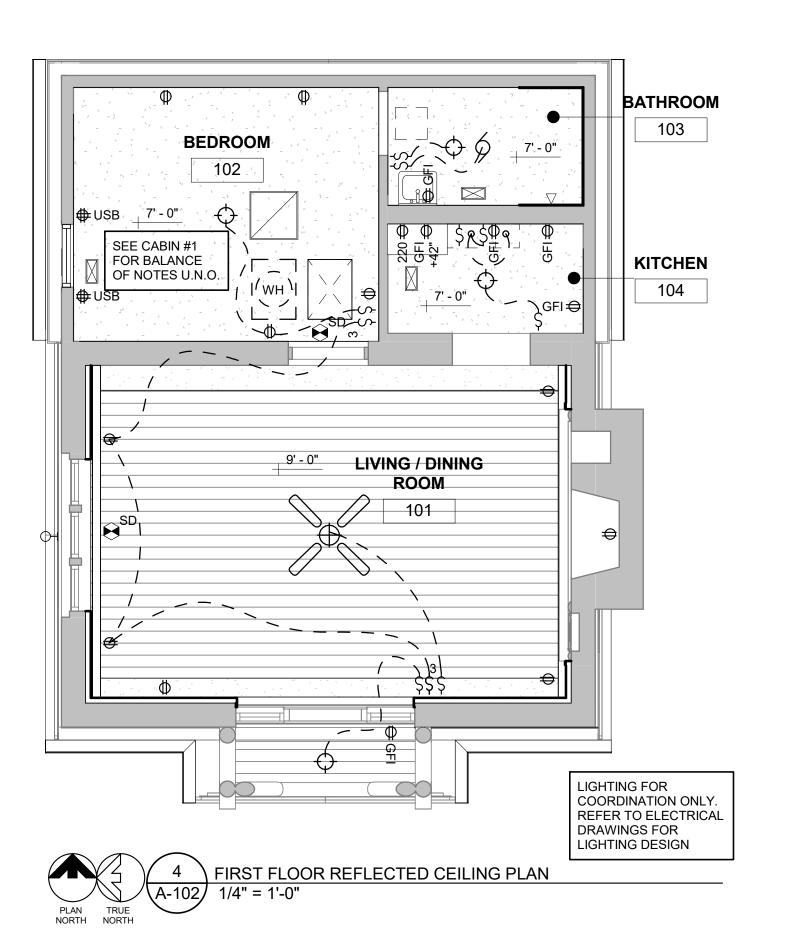


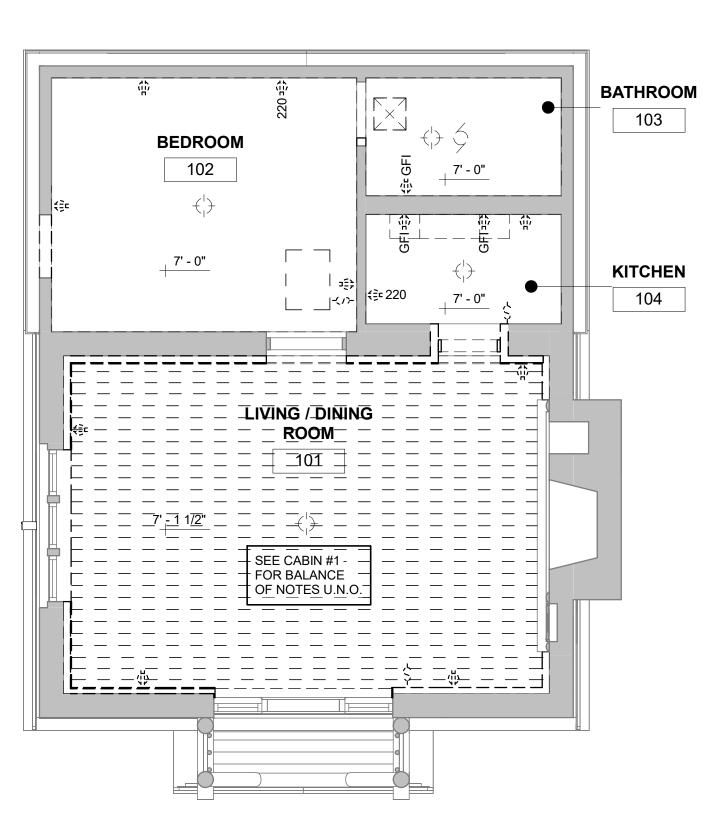
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STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING

CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

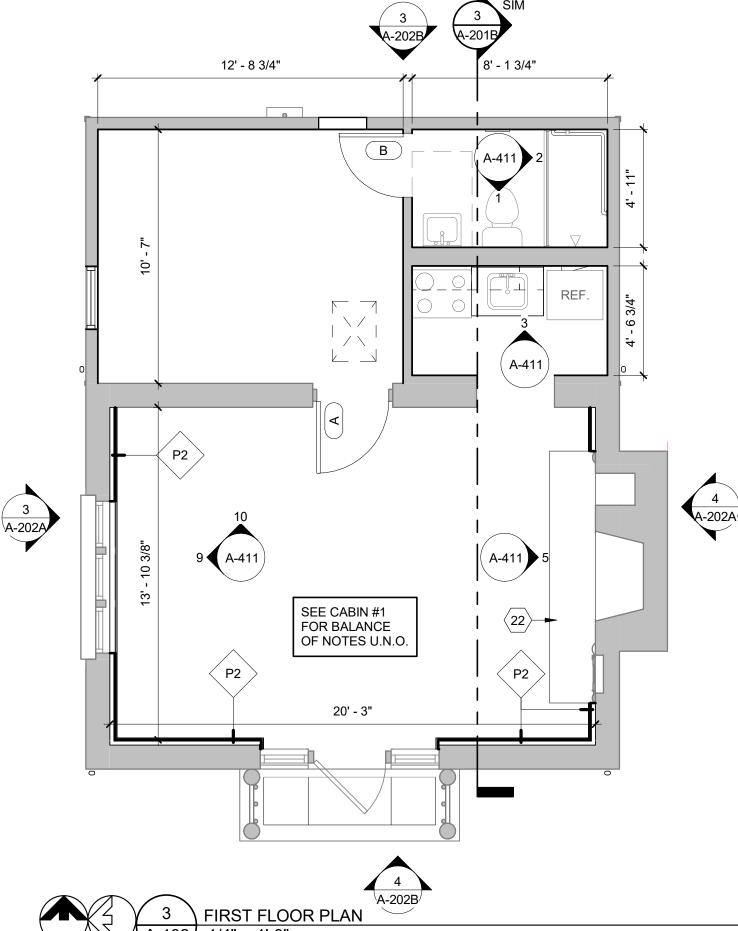


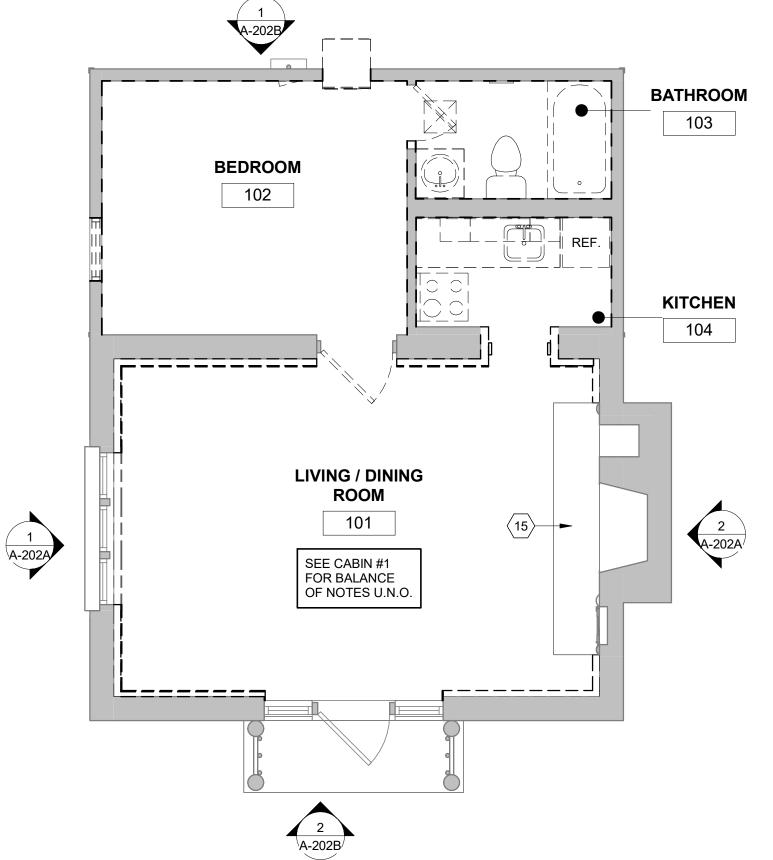


# IRST FLOOR REFLECTED CEILING PLAN - DEMO

# **GENERAL NOTES - FLOOR PLANS**

- 1. ALL GYPSUM BOARD THROUGHOUT TO BE 5/8" MINIMUM THICKNESS.
- 2. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
- ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE
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- 6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
- 7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH





FIRST FLOOR PLAN - DEMO

# **KEYED NOTES - NEW FLOOR PLANS**

- 1 NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- EXPOSED STONE CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN SURROUNDING MASONRY UNITS.
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- 6X6 CERAMIC FLOOR TILE.
- LUXURY VINYL TILE 50 CM X 50 CM CARPET SQUARES.
- STONE TILE HEARTH TO MATCH ADJACENT CABINS, CLEAN AND REFURBISH.
- 8 INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED 9 EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS
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- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL.
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- 15 GYPSUM BOARD SOFFIT
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- CONTROLS
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- ZERO ENTRY PRE-MANUFACTURED SHOWER BASE INSERT. ALLOW SLOT DRAIN SET IN
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- 37 NEW FOAM PLUG IN FLUE TO ACHIEVE MIN. R40
- 38 SMOKE DETECTOR LOCATED IN ATTIC
- 39 NEW SURFACE MOUNTED HANDRAIL 40 ALTERNATE #4: WAINSCOAT. SEE PARTITION SCHEDULE, P3 - ALTERNATE #4
- 41 EXISTING HARVESTED HALF LOG LUMBER. REATTACH TO NEW 5/8" OSB, PAINT. COLOR BY
- OWNER. REFER TO ROOM FINISH SCHEDULE 42 5/8" GYPSUM BOARD OVER EXISTING ROOF RAFTERS.
- 43 DASHED LINE INDICATES ICE AND WATER SHIELD.
- 44 NEW RELOCATED ELECTRICAL PANEL

# **GENERAL NOTES - DEMOLITION:**

- REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
- REFERENCE M/E/P AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION
- DEMOLITION CONTRACTOR (DC) TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. DC TO REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND FIELD
- CONDITIONS. DC EXPLORATORY DEMOLITION SHALL INCLUDE DEMOLITION AT THE REQUEST OF THE STRUCTURAL ENGINEER TO VERIFY CONDITION OF HIDDEN STRUCTURAL ELEMENTS.
- DC SHALL ENCLOSE AREAS, PROVIDE CHUTES AND ANY RELATED CONSTRUCTION AS REQUIRED TO MINIMIZE THE IMPACT OF DUST AND DEBRIS AS A RESULT OF DEMOLITION WORK.
- DC IS RESPONSIBLE FOR INSPECTING THE EXISTING BUILDING FOR HAZARDS THAT WOULD REQUIRE ENVIRONMENTAL REMEDIATION. DC SHALL NOTIFY OWNER MMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL
- 7. DC TO ENSURE THAT ALL ELEMENTS AND FINISHES THAT ARE CALLED OUT TO REMAIN N BUILDING ARE PROTECTED DURING DEMOLITION AND STORED ONSITE. CARE SHALL BE TAKEN TO AVOID UNDUE DAMAGE TO ADJACENT AREAS AND SURFACES. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ELSEWHERE IN THE
- OWNER TO HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS. DC SHALL LEGALLY DISPOSE OF ALL ITEMS NOT TO BE REUSED IN PROJECT WHEREVER ANY DEMOLITION OCCURS.
- REMOVE ALL MISCELLANEOUS NON-STRUCTURAL METAL STRAPS, PLATES, PIPES, BRACKETS AND ANCHORS FROM INTERIOR FACADE, WALLS AND CEILING.
- 10. DC IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY NECESSARY PERMITS REQUIRED FOR DEMOLITION WORK. 11. DC TO ERECT BARRICADES THAT COMPLY WITH ALL APPLICABLE CODES AND
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PRIOR TO REMOVING DAMAGED STEEL OR CONCRETE. NOTIFY ARCHITECT AND

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- 15. ALL EXISTING ROOF DRAINS/LINES TO REMAIN. DC TO IDENTIFY AND MAINTAIN ALL EXISTING ROOF DRAINS/LINES ON ALL FLOORS THROUGHOUT DEMOLITION. 16. SHORING/SUPPORTS TO BE PROVIDED AT ALL DEMOLITION LOCATIONS AS REQUIRED
- BY THE STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS. 17. ALL STRUCTURAL COLUMNS, BEAMS, FLOOR/CEILING SLABS TO REMAIN EXCEPT WHERE INDICATED BY STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS.
- 18. COORDINATE THE REMOVAL AND SALVAGING OF EXISTING EQUIPMENT WITH

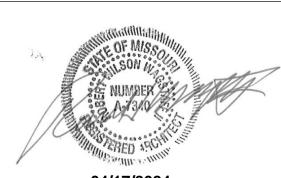
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- REMOVE EXISTING WINDOW.
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- EXISTING PANELING TO BE REMOVED ALONG WITH ALL ASSOCIATED STRUCTURE.
- REMOVE EXISTING FLOOR FINISH PROVIDE EXPLORATORY DEMOLITION OF TILE AT EXISTING HEARTH TO DETERMINE IF
- HISTORIC STONE SUBSTRATE STILL EXIST. REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
- REMOVE ALL EXISTING PLUMBING FIXTURES, TYP.
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- 11 REMOVE EXISTING AC UNIT
- 12 REMOVE EXISTING ELECTRICAL PANEL, OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT.
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- 17 EXISTING WOOD PANELING TO BE REMOVED REMOVE EXISTING FURNACE AND WATER HEATER.
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AND REUSE. CLEAN AND PREP AREA FOR NEW FINISH.

- DASHED LINES INDICATE EXPECTED LOCATION OF EXISTING HALF LOG FINISHED CEILING. CAREFULLY REMOVE EXISTING LOGS AND STORE ON SITE FOR EVALUATION
- REMOVE EXISTING ELECTRICAL PANEL AND RELOCATE TO WALL ADJACENT TO BATHROOM, SEE NEW FLOOR PLANS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

PROFESSIONAL SEAL



**OFFICE OF ADMINISTRATION DIVISION OF FACILITIES** MANAGEMENT. **DESIGN AND CONSCTRUCTION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

5218

CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: _ REVISION: _ DATE: _ REVISION: _	
DATE: _	

PROJECT # X2319-01

**ASSET** 

**DESIGNED BY:** SHEET TITLE: CABIN #2 - FLOOR

SHEET NUMBER:

DRAWN BY:

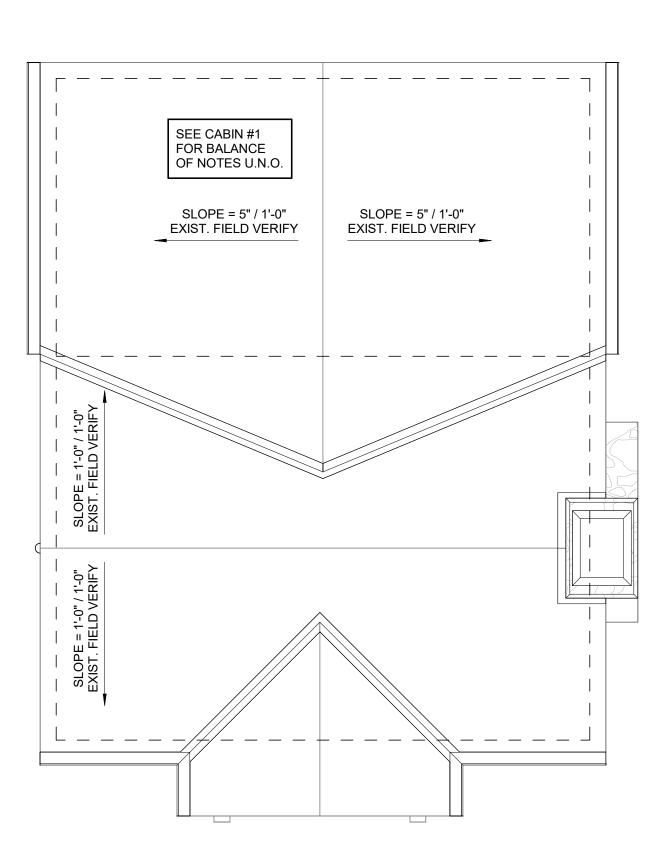
**PLANS** 

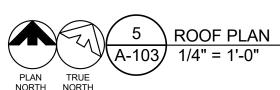
CHECKED BY:

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- SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS.
- ALL ROOF SLOPES ARE EXISTING. ALL SHEET METAL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH THE GUIDELINES AND RECOMMENDATIONS PER THE CURRENT ADDITION OF THE SMACNA
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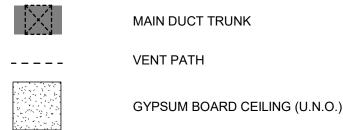
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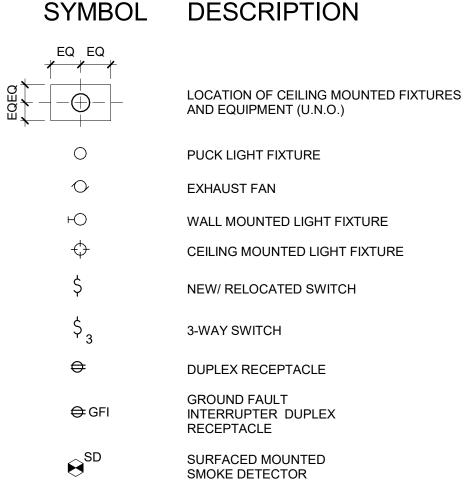




# REFLECTED CEILING PLAN LEGEND



LIGHTING/ELECTRICAL LEGEND



SUPPLY DIFFUSER

RETURN DIFFUSER

# **GENERAL NOTES - MASONRY RESTORATION**

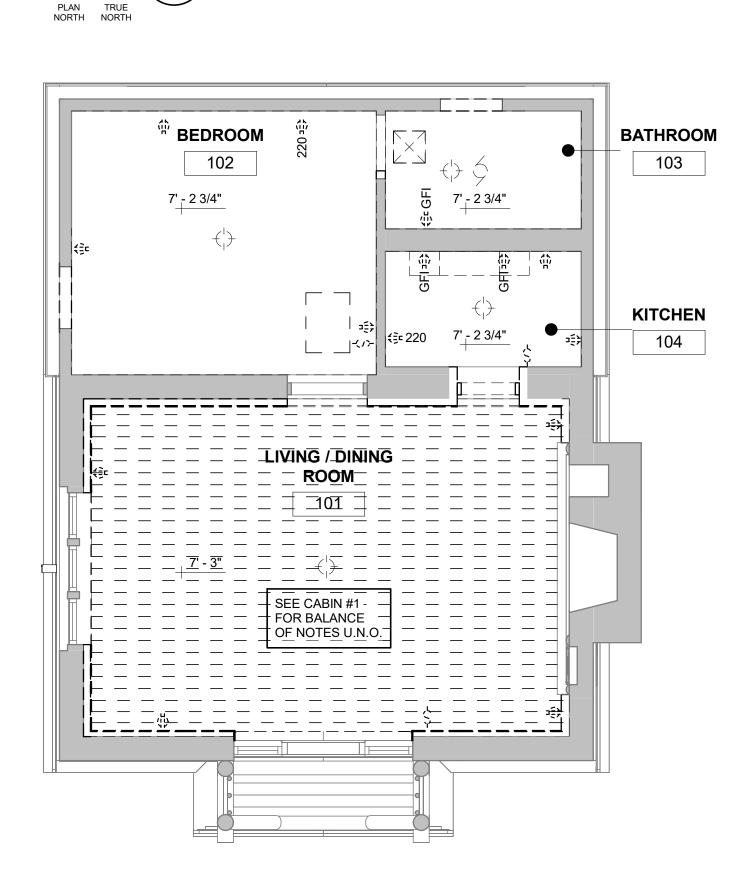
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CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

BATHROOM 103 SEE CABIN #1 104 FOR BALANCE OF NOTES U.N.O. 7' - 2 3/4" **LIVING / DINING** 101 LIGHTING FOR **COORDINATION ONLY** REFER TO ELECTRICA DRAWINGS FOR LIGHTING DESIGN

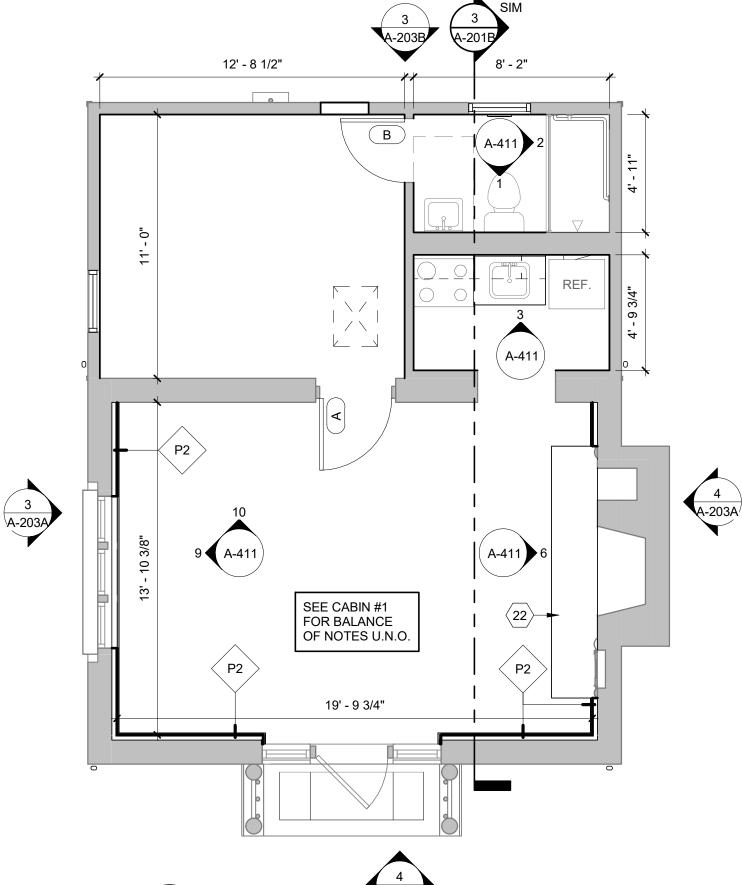
FIRST FLOOR REFLECTED CEILING PLAN

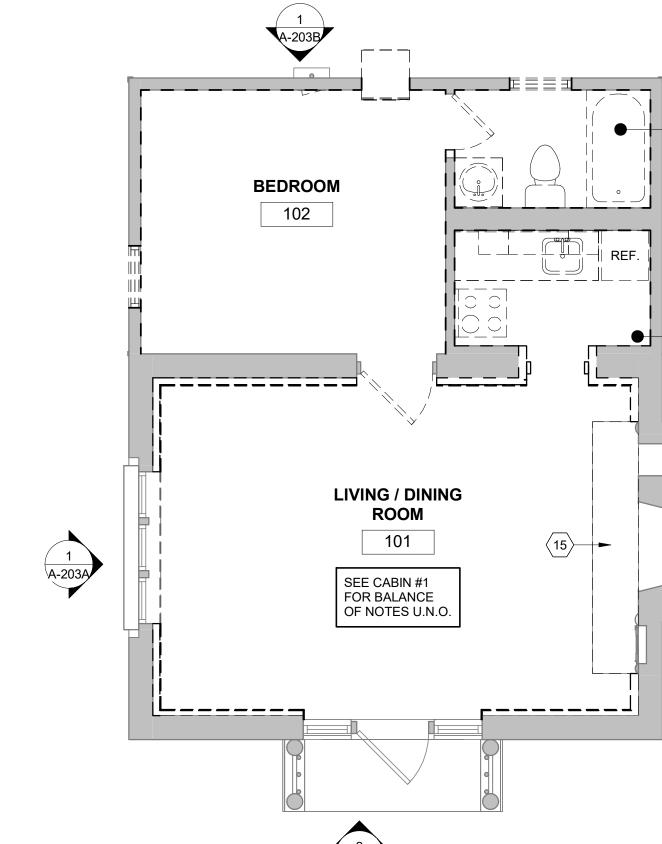




# **GENERAL NOTES - FLOOR PLANS**

- 1. ALL GYPSUM BOARD THROUGHOUT TO BE 5/8" MINIMUM THICKNESS.
- 2. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
- ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE
- 4. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
- WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS.
- 6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
- 7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH





#### **KEYED NOTES - NEW FLOOR PLANS**

- 1 NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- EXPOSED STONE CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN SURROUNDING MASONRY UNITS.
- 6X6 TILE, SELECTED BY OWNER.
- 6X6 CERAMIC FLOOR TILE.
- LUXURY VINYL TILE
- 50 CM X 50 CM CARPET SQUARES. STONE TILE HEARTH TO MATCH ADJACENT CABINS, CLEAN AND REFURBISH.
- 8 INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED 9 EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS
- 10 NEW WINDOW IN OPENING SEE ELEV. FOR TYPE NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- 11 ALTERNATE #1: PRE-MANUFACTURED FIREPLACE INSERT, PROVIDE NEW POWER. SEE
- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS,
- 14 PROVIDE NEW ELECTRICAL OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT, REFER TO
- ELECTRICAL DRAWINGS
- 15 GYPSUM BOARD SOFFIT
- 16 BASE BID: VAULTED CEILING. NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- 17 ATTIC ACCESS (22" X 30" MIN.) COORDINATE SIZE WITH HVAC/WATER HEATER DIMENSIONS TO BE INSTALLED IN ATTIC.
- 18 HOOD EXHAUST. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- 19 DASHED LINE INDICATES EXTERIOR WALL BELOW.
- 20 NEW METAL CHIMNEY CAP 21 NEW EXPOSED SHEET METAL VALLEY FLASHING OVER ICE AND WATER SHEILD.
- 22 EXISTING STONE HEARTH
- 23 INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS REMOVED.
- 24 NEW STONE STEPS 25 NEW ELECTRICAL PANEL
- 26 BASE BID: NEW ASPHALT ROOFING AND UNDERLAYMENT. 27 ALTERNATE #2:SYNTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER
- BETWEEN EACH LAYER
- 28 NEW FURNACE AND WATER HEATER
- 29 NEW WATER HEATER TANK WITH DRAIN PAN ABOVE CEILING.
- 30 MOISTURE RESISTANT GYPSUM. G.P. DENSEGLASS OR EQUAL.
- 31 PROVIDE 18 X 18 STEEL ACCESS PANEL DOOR, HINGED WITH LATCH, FOR SHOWER CONTROLS
- 32 NEW 6" HALF ROUND EXTENDED FLANGE GUTTER
- 33 NEW GYPSUM WALL BOARD. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- ZERO ENTRY PRE-MANUFACTURED SHOWER BASE INSERT. ALLOW SLOT DRAIN SET IN RE-POURED CONCRETE FLOOR UNDER EXISTING TUB SHOWER.
- 35 NEW CONCRETE TOPPING SLAB
- 37 NEW FOAM PLUG IN FLUE TO ACHIEVE MIN. R40
- 38 SMOKE DETECTOR LOCATED IN ATTIC
- 39 NEW SURFACE MOUNTED HANDRAIL 40 ALTERNATE #4: WAINSCOAT. SEE PARTITION SCHEDULE, P3 - ALTERNATE #4
- 41 EXISTING HARVESTED HALF LOG LUMBER. REATTACH TO NEW 5/8" OSB, PAINT. COLOR BY
- OWNER. REFER TO ROOM FINISH SCHEDULE
- 42 5/8" GYPSUM BOARD OVER EXISTING ROOF RAFTERS. 43 DASHED LINE INDICATES ICE AND WATER SHIELD.
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# **GENERAL NOTES - DEMOLITION:**

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- DEMOLITION CONTRACTOR (DC) TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. DC TO REPORT
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REMOVE EXISTING WINDOW.

103

**KITCHEN** 

104

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STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

NO. 000639

PROFESSIONAL SEAL



MANAGEMENT. **DESIGN AND CONSCTRUCTION DEPARTMENT OF NATURAL** 

RESOURCES DIVISION OF

**OFFICE OF ADMINISTRATION** 

**DIVISION OF FACILITIES** 

**STATE PARKS** PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK

SAM A. BAKER STATE PARK

7815218005

7815218003

5580 STATE HIGHWAY 143 PATTERSON, MO 63956 PROJECT# X2319-01 5218

ASSET CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3:

**CABIN #4:** 

CABIN #14:

CABIN #19: 7815218019 REVISION: DATE REVISION DATE

REVISION: DATE: **ISSUEDATE:** CAD DWG FILE

DRAWN BY: CHECKED BY: **DESIGNED BY:** 

SHEET TITLE:

CABIN #3 - FLOOR **PLANS** 

SHEET NUMBER:

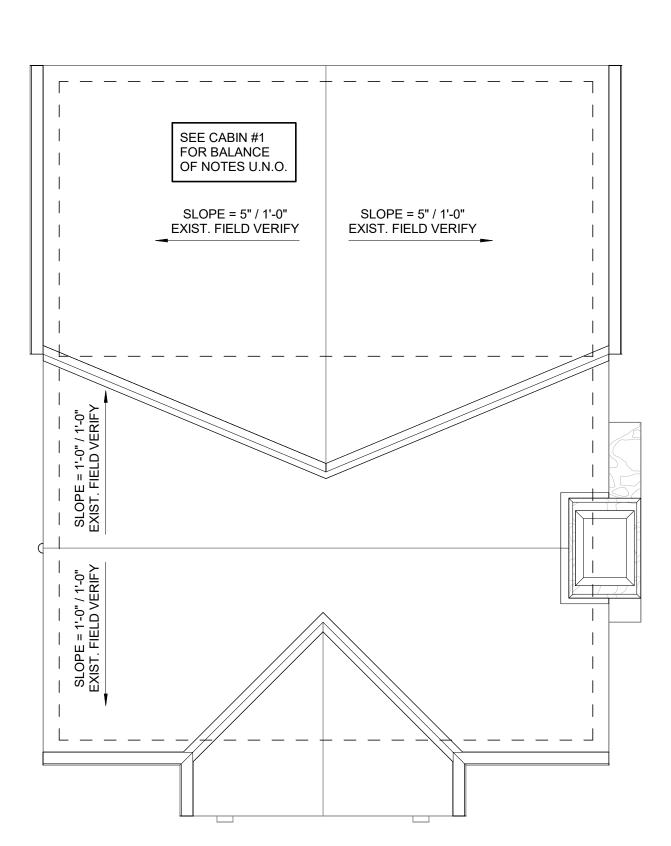
24 OF 54 SHEETS

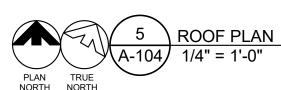
04/17/24

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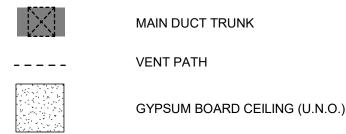
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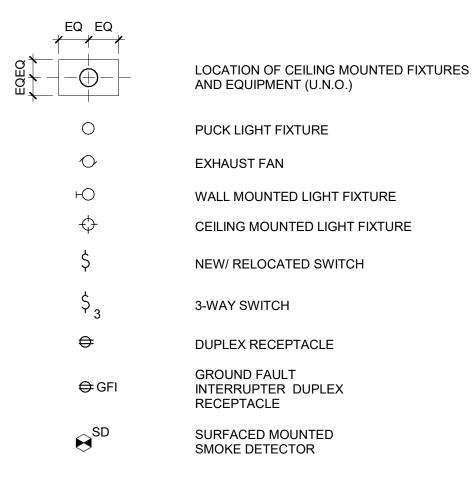


# REFLECTED CEILING PLAN LEGEND



# LIGHTING/ELECTRICAL LEGEND

#### DESCRIPTION



SUPPLY DIFFUSER

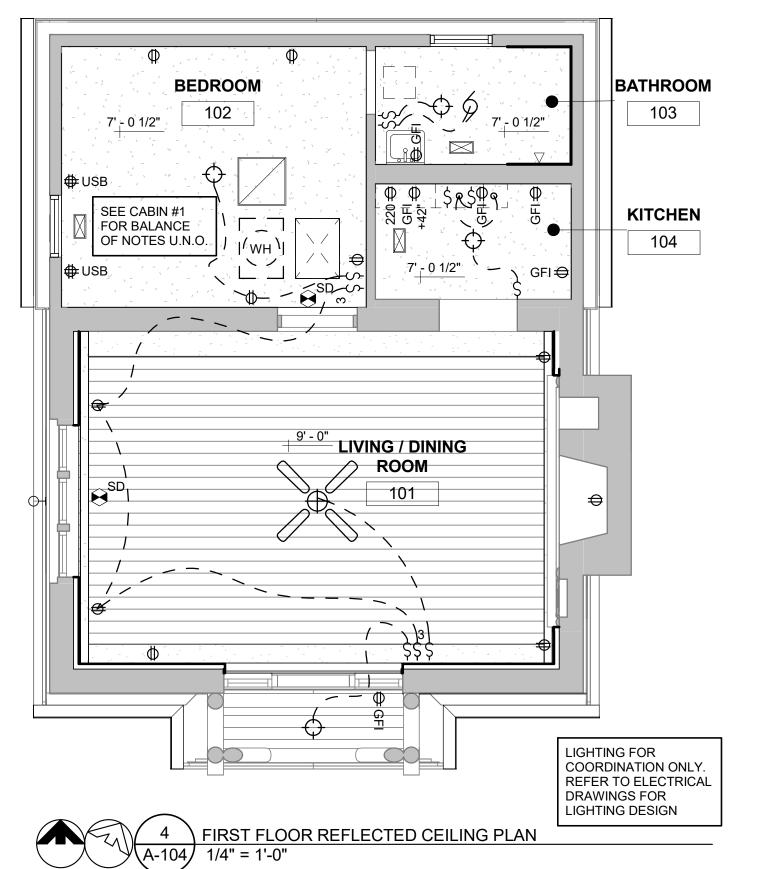
RETURN DIFFUSER

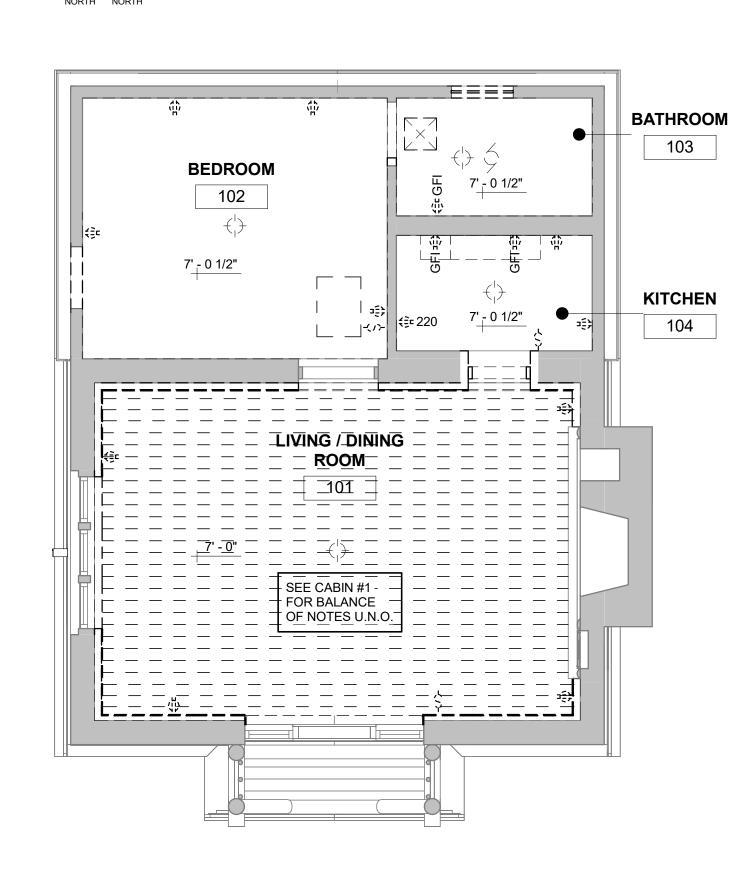
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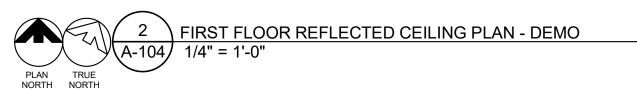
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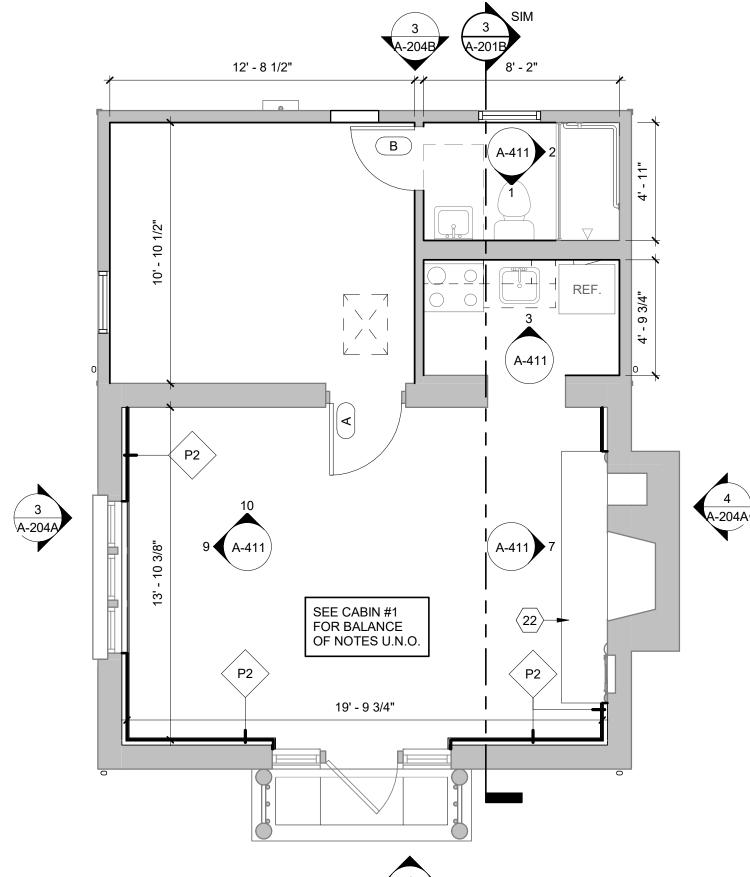


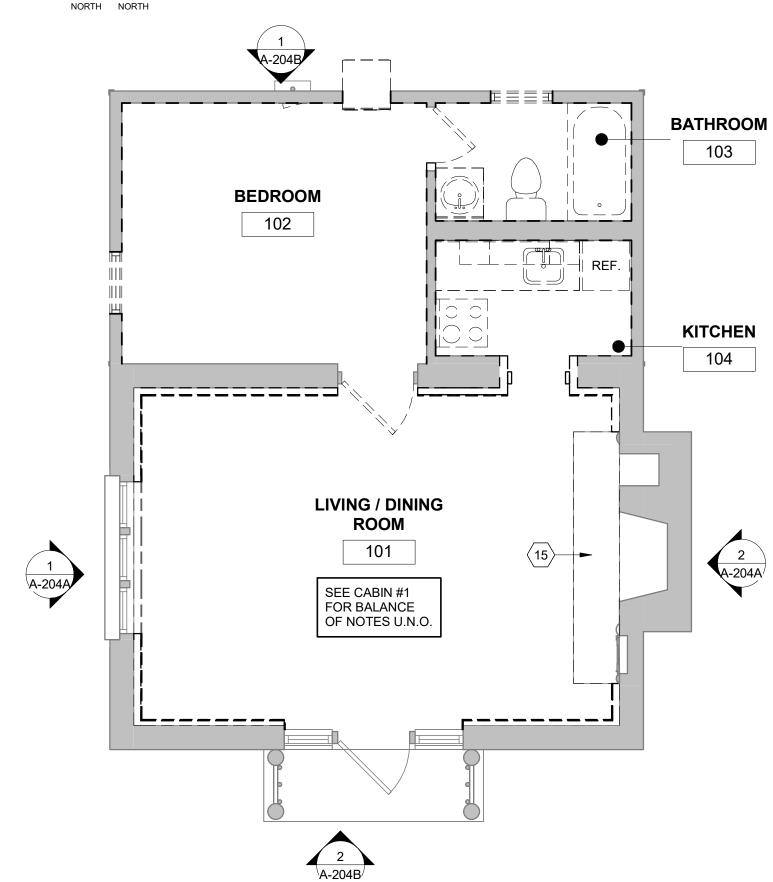




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- 4. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1. WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO
- BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS.
- 6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
- 7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH





FIRST FLOOR PLAN - DEMO

#### **KEYED NOTES - NEW FLOOR PLANS**

- 1 NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH
- SCHEDULE. SEE SPEC. EXPOSED STONE - CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO
- MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN SURROUNDING MASONRY UNITS.
- 6X6 TILE, SELECTED BY OWNER.
- 6X6 CERAMIC FLOOR TILE.
- LUXURY VINYL TILE
- 50 CM X 50 CM CARPET SQUARES. STONE TILE HEARTH TO MATCH ADJACENT CABINS, CLEAN AND REFURBISH.
- 8 INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED 9 EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS
- 10 NEW WINDOW IN OPENING SEE ELEV. FOR TYPE NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- 11 ALTERNATE #1: PRE-MANUFACTURED FIREPLACE INSERT, PROVIDE NEW POWER. SEE
- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS,
- 14 PROVIDE NEW ELECTRICAL OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT, REFER TO
- ELECTRICAL DRAWINGS
- 15 GYPSUM BOARD SOFFIT
- 16 BASE BID: VAULTED CEILING. NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- 17 ATTIC ACCESS (22" X 30" MIN.) COORDINATE SIZE WITH HVAC/WATER HEATER DIMENSIONS TO BE INSTALLED IN ATTIC.
- 18 HOOD EXHAUST. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- 19 DASHED LINE INDICATES EXTERIOR WALL BELOW.
- 20 NEW METAL CHIMNEY CAP 21 NEW EXPOSED SHEET METAL VALLEY FLASHING OVER ICE AND WATER SHEILD.
- 22 EXISTING STONE HEARTH
- 23 INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS REMOVED.
- 24 NEW STONE STEPS 25 NEW ELECTRICAL PANEL
- 27 ALTERNATE #2:SYNTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER BETWEEN EACH LAYER
- 28 NEW FURNACE AND WATER HEATER

26 BASE BID: NEW ASPHALT ROOFING AND UNDERLAYMENT.

- 29 NEW WATER HEATER TANK WITH DRAIN PAN ABOVE CEILING.
- 30 MOISTURE RESISTANT GYPSUM. G.P. DENSEGLASS OR EQUAL. 31 PROVIDE 18 X 18 STEEL ACCESS PANEL DOOR, HINGED WITH LATCH, FOR SHOWER
- 32 NEW 6" HALF ROUND EXTENDED FLANGE GUTTER
- 33 NEW GYPSUM WALL BOARD. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- ZERO ENTRY PRE-MANUFACTURED SHOWER BASE INSERT. ALLOW SLOT DRAIN SET IN RE-POURED CONCRETE FLOOR UNDER EXISTING TUB SHOWER.
- 35 NEW CONCRETE TOPPING SLAB

CONTROLS

- 37 NEW FOAM PLUG IN FLUE TO ACHIEVE MIN. R40
- 38 SMOKE DETECTOR LOCATED IN ATTIC 39 NEW SURFACE MOUNTED HANDRAIL
- 40 ALTERNATE #4: WAINSCOAT. SEE PARTITION SCHEDULE, P3 ALTERNATE #4
- 41 EXISTING HARVESTED HALF LOG LUMBER. REATTACH TO NEW 5/8" OSB, PAINT. COLOR BY
- OWNER. REFER TO ROOM FINISH SCHEDULE 42 5/8" GYPSUM BOARD OVER EXISTING ROOF RAFTERS.
- 43 DASHED LINE INDICATES ICE AND WATER SHIELD.
- 44 NEW RELOCATED ELECTRICAL PANEL

# **GENERAL NOTES - DEMOLITION:**

- REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
- REFERENCE M/E/P AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION
- DEMOLITION CONTRACTOR (DC) TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. DC TO REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND FIELD
- CONDITIONS. DC EXPLORATORY DEMOLITION SHALL INCLUDE DEMOLITION AT THE REQUEST OF THE STRUCTURAL ENGINEER TO VERIFY CONDITION OF HIDDEN STRUCTURAL ELEMENTS.
- DC SHALL ENCLOSE AREAS, PROVIDE CHUTES AND ANY RELATED CONSTRUCTION AS DEMOLITION WORK.
- DC IS RESPONSIBLE FOR INSPECTING THE EXISTING BUILDING FOR HAZARDS THAT WOULD REQUIRE ENVIRONMENTAL REMEDIATION. DC SHALL NOTIFY OWNER MMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL
- DC TO ENSURE THAT ALL ELEMENTS AND FINISHES THAT ARE CALLED OUT TO REMAIN N BUILDING ARE PROTECTED DURING DEMOLITION AND STORED ONSITE. CARE SHALL BE TAKEN TO AVOID UNDUE DAMAGE TO ADJACENT AREAS AND SURFACES. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ELSEWHERE IN THE
- OWNER TO HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS. DC SHALL LEGALLY DISPOSE OF ALL ITEMS NOT TO BE REUSED IN PROJECT WHEREVER ANY DEMOLITION OCCURS.
- REMOVE ALL MISCELLANEOUS NON-STRUCTURAL METAL STRAPS, PLATES, PIPES, BRACKETS AND ANCHORS FROM INTERIOR FACADE, WALLS AND CEILING.
- 10. DC IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY NECESSARY PERMITS REQUIRED FOR DEMOLITION WORK. 11. DC TO ERECT BARRICADES THAT COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AROUND ALL NEW AND EXISTING FLOOR PENETRATIONS.
- 12. DC TO IDENTIFY AREAS IN NEED OF STRUCTURAL REPAIR OR AREAS OF SLAB AND STRUCTURE THAT SHOW DETERIORATION. CONSULT WITH STRUCTURAL ENGINEER PRIOR TO REMOVING DAMAGED STEEL OR CONCRETE. NOTIFY ARCHITECT AND
- ENGINEER IF ANY NEW DAMAGE IS IDENTIFIED. 13. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) DRAWINGS FOR DEMOLITION OF MEP ITEMS.
- 14. DC TO SHUTOFF/TERMINATE ALL WATER, ELECTRICAL, AND GAS SERVICES PRIOR TO BEGINNING DEMOLITION. 15. ALL EXISTING ROOF DRAINS/LINES TO REMAIN. DC TO IDENTIFY AND MAINTAIN ALL
- EXISTING ROOF DRAINS/LINES ON ALL FLOORS THROUGHOUT DEMOLITION. 16. SHORING/SUPPORTS TO BE PROVIDED AT ALL DEMOLITION LOCATIONS AS REQUIRED BY THE STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS.
- 17. ALL STRUCTURAL COLUMNS, BEAMS, FLOOR/CEILING SLABS TO REMAIN EXCEPT WHERE INDICATED BY STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS.
- 18. COORDINATE THE REMOVAL AND SALVAGING OF EXISTING EQUIPMENT WITH

# **KEYED NOTES - DEMOLITION PLANS**

- REMOVE EXISTING WINDOW.
- REMOVE EXISTING DOOR LEAF. DOOR FRAME TO REMAIN.
- REMOVE EXISTING DOOR FRAME REMOVE EXISTING WALL/PARTITION, OR PORTION THEREOF AS INDICATED, TYP.
- EXISTING PANELING TO BE REMOVED ALONG WITH ALL ASSOCIATED STRUCTURE.
- REMOVE EXISTING FLOOR FINISH PROVIDE EXPLORATORY DEMOLITION OF TILE AT EXISTING HEARTH TO DETERMINE IF
- HISTORIC STONE SUBSTRATE STILL EXIST. REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
- REMOVE ALL EXISTING PLUMBING FIXTURES, TYP.
- 10 REMOVE ALL EXISTING APPLIANCE, TYP.
- 11 REMOVE EXISTING AC UNIT
- THROUGHOUT.
- 13 REMOVE EXISTING DROP CEILING, LIGHT FIXTURES, AND ASSOCIATED STRUCTURE. 14 REMOVE EXISTING ATTIC ACCESS HATCH.

12 REMOVE EXISTING ELECTRICAL PANEL, OUTLETS, SWITCHES, AND CONDUIT

- 15 EXISTING STONE HEARTH TO REMAIN.
- 16 REMOVE EXISTING STONE STEP. RETAIN FOR REUSE
- EXISTING WOOD PANELING TO BE REMOVED
- REMOVE EXISTING FURNACE AND WATER HEATER.
- 19 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIN FOR REUSE. REMOVE EXISTING GUTTER AND DOWN SPOUT
- DASHED LINES INDICATE EXPECTED LOCATION OF EXISTING HALF LOG FINISHED CEILING. CAREFULLY REMOVE EXISTING LOGS AND STORE ON SITE FOR EVALUATION AND REUSE. CLEAN AND PREP AREA FOR NEW FINISH.
- REMOVE EXISTING ELECTRICAL PANEL AND RELOCATE TO WALL ADJACENT TO BATHROOM, SEE NEW FLOOR PLANS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

PROFESSIONAL SEAL



**DIVISION OF FACILITIES** MANAGEMENT. **DESIGN AND CONSCTRUCTION** 

**OFFICE OF ADMINISTRATION** 

DEPARTMENT OF NATURAL RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

PATTERSON, MO 63956

5218

X2319-01

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218003
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION:	
DATE:	
REVISION:	
DATE:	
DEVICION.	-

PROJECT#

AD DWG FILE:	
RAWN BY:	JB
HECKED BY:	RW
ESIGNED BY:	

SHEET TITLE:

DATE:

**ISSUEDATE:** 

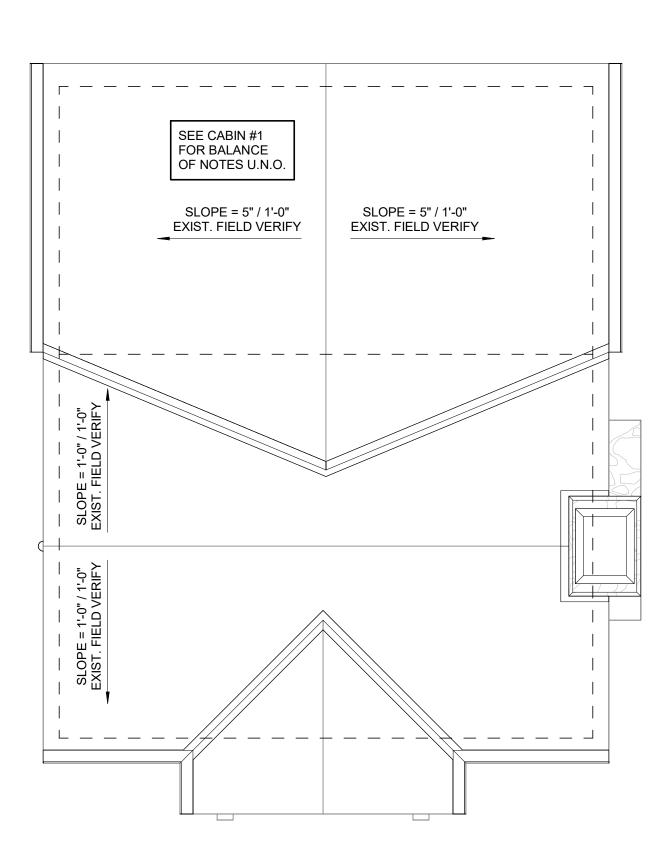
CABIN #4 - FLOOR **PLANS** 

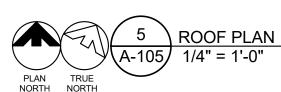
SHEET NUMBER:

- 1. ALL NEW WORK SHALL MEET ALL APPLICABLE CODE AND ORDINANCE REQUIREMENTS. SEE COVER SHEET FOR APPLICABLE CODES.
- SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS. ALL ROOF SLOPES ARE EXISTING.
- ALL SHEET METAL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH THE GUIDELINES AND RECOMMENDATIONS PER THE CURRENT ADDITION OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL
- AT UNVENTED ATTIC ASSEMBLIES, AIR-IMPERMEABLE INSULATION AS DEFINED BY ASTM E 183 SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING

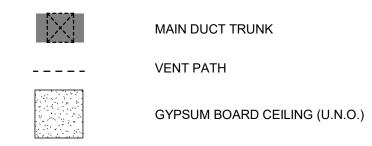
## **GENERAL NOTES - REFLECTED CEILING PLANS**

- 1. ALL LIGHTS AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND
- SELECTED BY OWNER. 2. CONFIRM ALL LIGHT, SWITCH AND POWER LOCATIONS WITH OWNER.



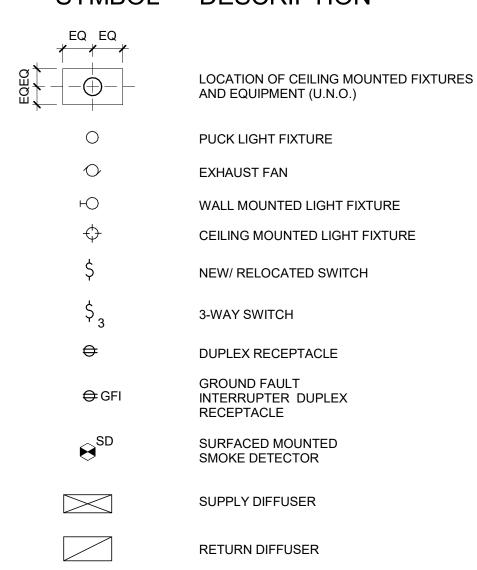


# REFLECTED CEILING PLAN LEGEND



# LIGHTING/ELECTRICAL LEGEND

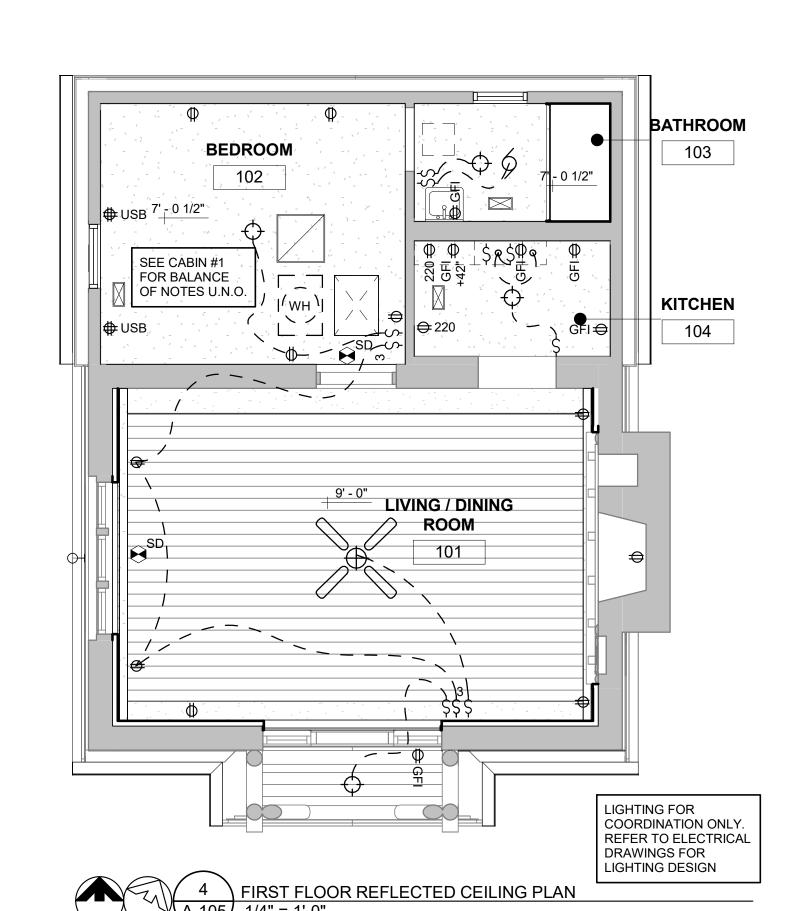
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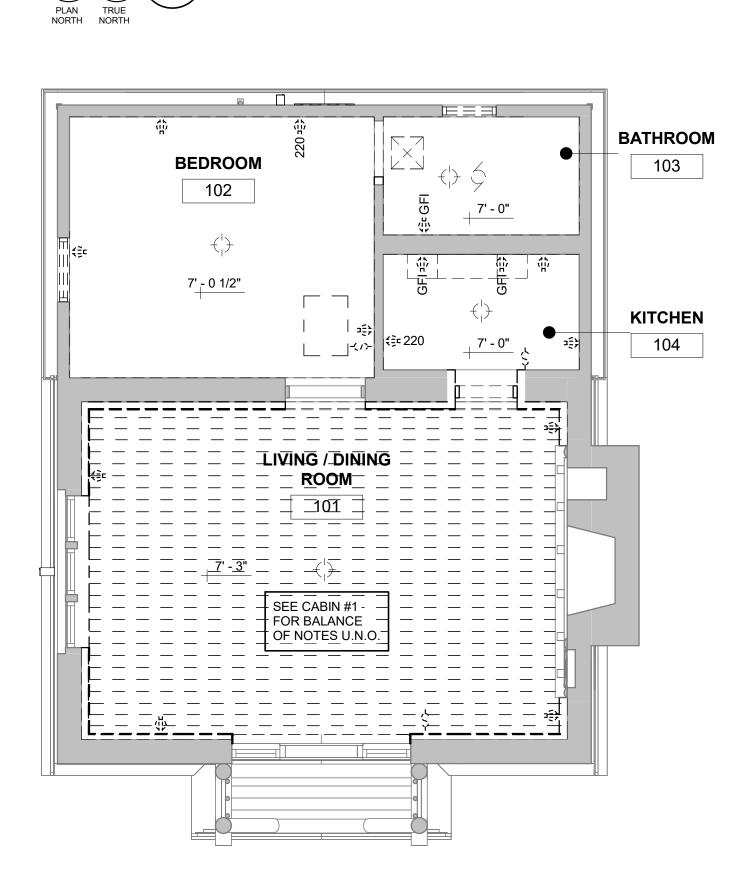


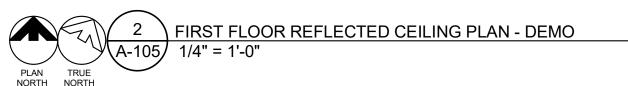
# **GENERAL NOTES - MASONRY RESTORATION**

RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND

HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

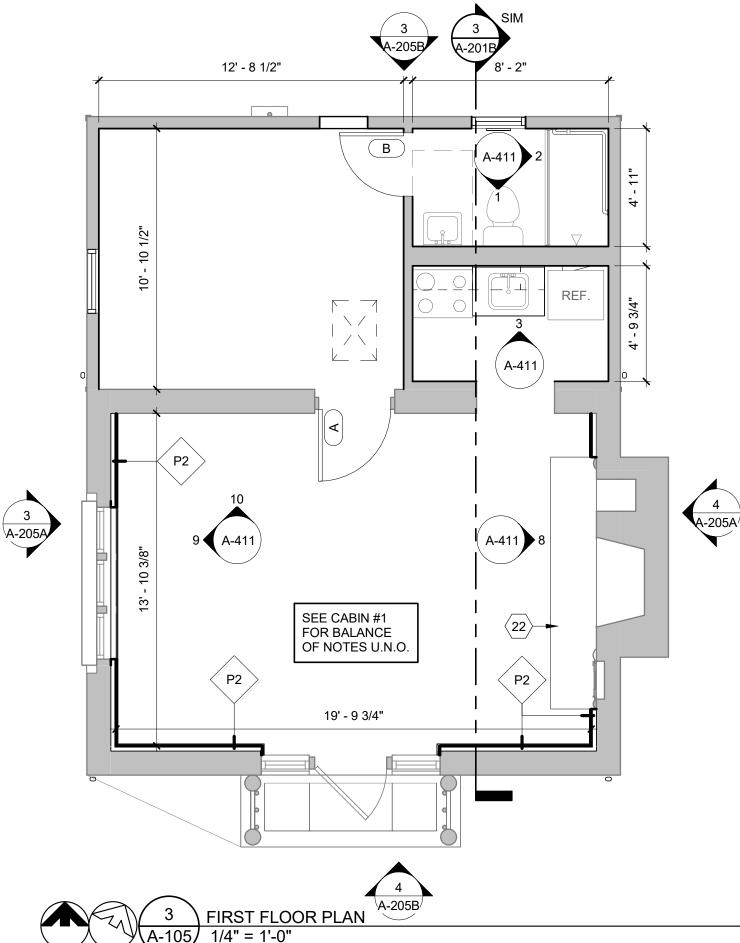


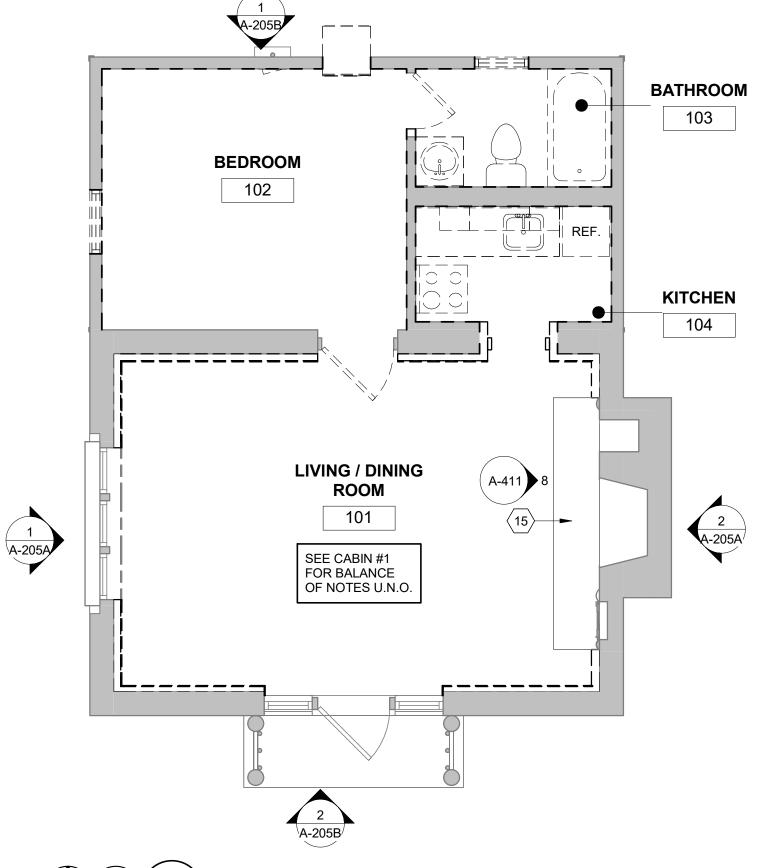




# **GENERAL NOTES - FLOOR PLANS**

- 1. ALL GYPSUM BOARD THROUGHOUT TO BE 5/8" MINIMUM THICKNESS.
- 2. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
- ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE
- 4. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
- WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS.
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- 7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH





FIRST FLOOR PLAN - DEMO

# **KEYED NOTES - NEW FLOOR PLANS**

- 1 NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- EXPOSED STONE CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN SURROUNDING MASONRY UNITS.
- 6X6 TILE, SELECTED BY OWNER.
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- 8 INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED 9 EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS
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- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL.
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- 44 NEW RELOCATED ELECTRICAL PANEL

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- REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
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- REMOVE EXISTING DOOR LEAF. DOOR FRAME TO REMAIN.
- REMOVE EXISTING DOOR FRAME REMOVE EXISTING WALL/PARTITION, OR PORTION THEREOF AS INDICATED, TYP.
- EXISTING PANELING TO BE REMOVED ALONG WITH ALL ASSOCIATED STRUCTURE.
- REMOVE EXISTING FLOOR FINISH PROVIDE EXPLORATORY DEMOLITION OF TILE AT EXISTING HEARTH TO DETERMINE IF HISTORIC STONE SUBSTRATE STILL EXIST.
- REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
- REMOVE ALL EXISTING PLUMBING FIXTURES, TYP.
- 10 REMOVE ALL EXISTING APPLIANCE, TYP.
- 11 REMOVE EXISTING AC UNIT
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- 19 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIN FOR REUSE.

AND REUSE. CLEAN AND PREP AREA FOR NEW FINISH.

- REMOVE EXISTING GUTTER AND DOWN SPOUT DASHED LINES INDICATE EXPECTED LOCATION OF EXISTING HALF LOG FINISHED CEILING. CAREFULLY REMOVE EXISTING LOGS AND STORE ON SITE FOR EVALUATION
- REMOVE EXISTING ELECTRICAL PANEL AND RELOCATE TO WALL ADJACENT TO BATHROOM. SEE NEW FLOOR PLANS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

PROFESSIONAL SEAL

NO. 000639



**OFFICE OF ADMINISTRATION DIVISION OF FACILITIES** MANAGEMENT. **DESIGN AND CONSCTRUCTION** 

DEPARTMENT OF NATURAL RESOURCES DIVISION OF **STATE PARKS** 

PATTERSON, MO 63956

5218

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE:	
ISSUEDATE:	

PROJECT # X2319-01

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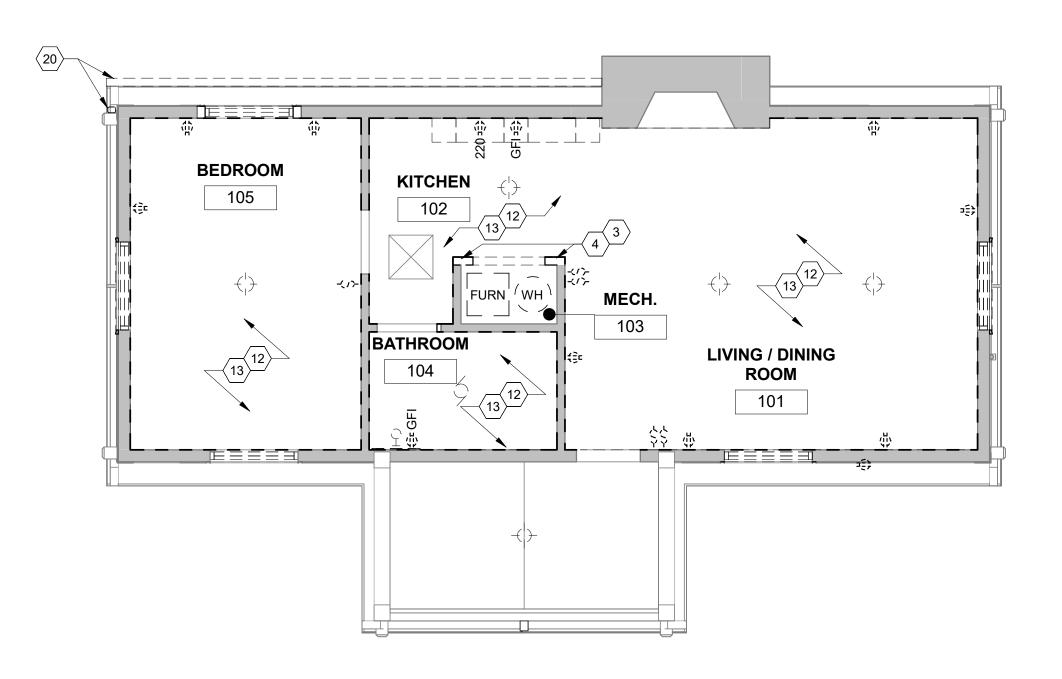
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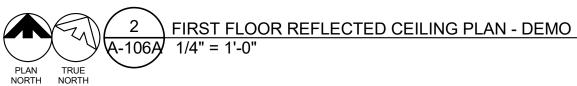
CABIN #14 - FLOOR **PLANS** 

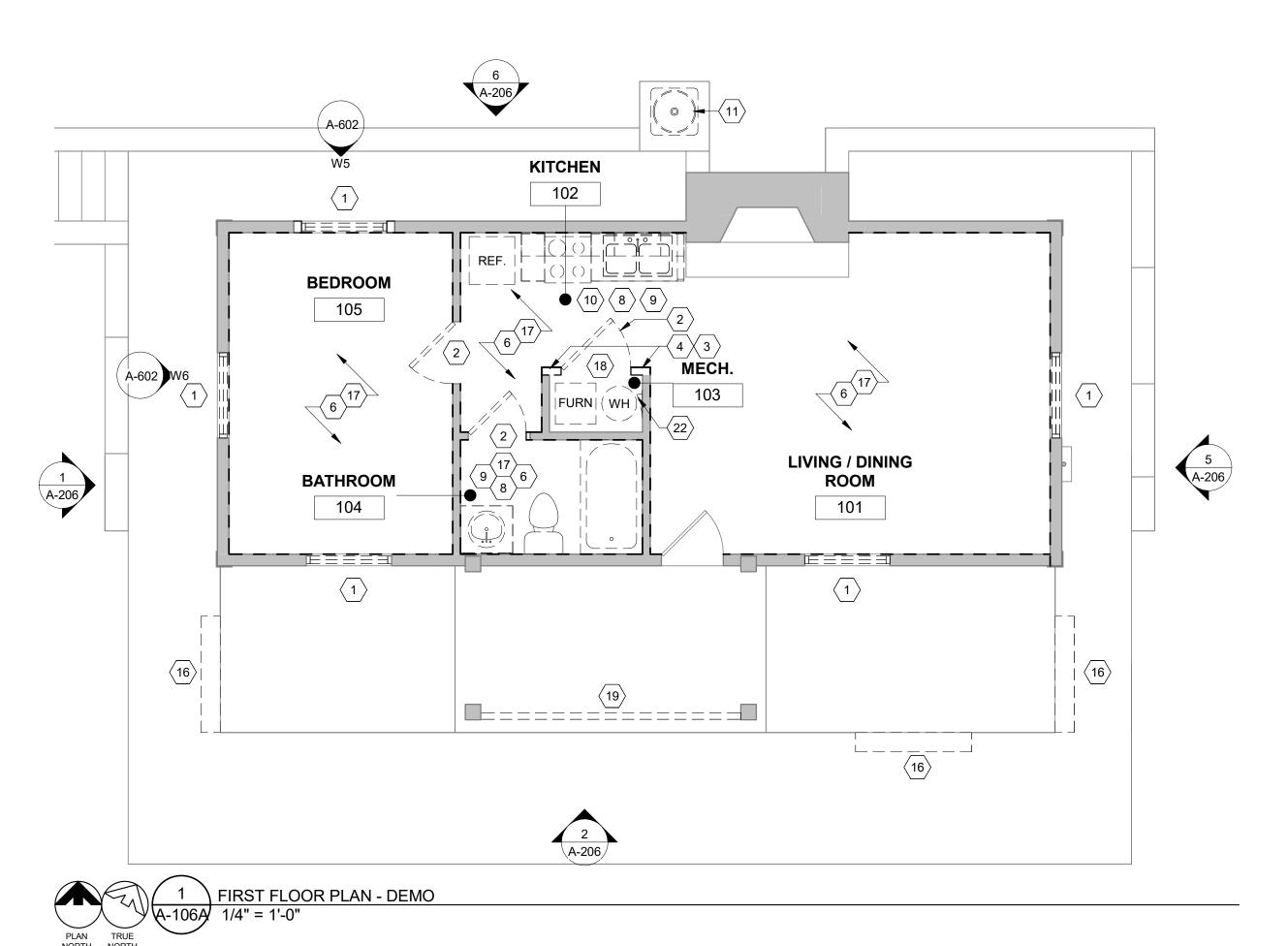
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26 OF 54 SHEETS

04/17/24







## **GENERAL NOTES - DEMOLITION:**

- REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
- 2. REFERENCE M/E/P AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION
- 3. DEMOLITION CONTRACTOR (DC) TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. DC TO REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND FIELD
- 4. DC EXPLORATORY DEMOLITION SHALL INCLUDE DEMOLITION AT THE REQUEST OF THE
- STRUCTURAL ENGINEER TO VERIFY CONDITION OF HIDDEN STRUCTURAL ELEMENTS. DC SHALL ENCLOSE AREAS, PROVIDE CHUTES AND ANY RELATED CONSTRUCTION AS REQUIRED TO MINIMIZE THE IMPACT OF DUST AND DEBRIS AS A RESULT OF
- 6. DC IS RESPONSIBLE FOR INSPECTING THE EXISTING BUILDING FOR HAZARDS THAT WOULD REQUIRE ENVIRONMENTAL REMEDIATION. DC SHALL NOTIFY OWNER IMMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL.
- DC TO ENSURE THAT ALL ELEMENTS AND FINISHES THAT ARE CALLED OUT TO REMAIN IN BUILDING ARE PROTECTED DURING DEMOLITION AND STORED ONSITE. CARE SHALL BE TAKEN TO AVOID UNDUE DAMAGE TO ADJACENT AREAS AND SURFACES. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ELSEWHERE IN THE
- 8. OWNER TO HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS. DC SHALL LEGALLY DISPOSE
- OF ALL ITEMS NOT TO BE REUSED IN PROJECT WHEREVER ANY DEMOLITION OCCURS. REMOVE ALL MISCELLANEOUS NON-STRUCTURAL METAL STRAPS, PLATES, PIPES,
- BRACKETS AND ANCHORS FROM INTERIOR FACADE, WALLS AND CEILING. 10. DC IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY NECESSARY PERMITS
- REQUIRED FOR DEMOLITION WORK. 11. DC TO ERECT BARRICADES THAT COMPLY WITH ALL APPLICABLE CODES AND
- REGULATIONS AROUND ALL NEW AND EXISTING FLOOR PENETRATIONS. 12. DC TO IDENTIFY AREAS IN NEED OF STRUCTURAL REPAIR OR AREAS OF SLAB AND STRUCTURE THAT SHOW DETERIORATION. CONSULT WITH STRUCTURAL ENGINEER PRIOR TO REMOVING DAMAGED STEEL OR CONCRETE. NOTIFY ARCHITECT AND
- ENGINEER IF ANY NEW DAMAGE IS IDENTIFIED. 13. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) DRAWINGS FOR
- DEMOLITION OF MEP ITEMS. 14. DC TO SHUTOFF/TERMINATE ALL WATER, ELECTRICAL, AND GAS SERVICES PRIOR TO
- BEGINNING DEMOLITION. 15. ALL EXISTING ROOF DRAINS/LINES TO REMAIN. DC TO IDENTIFY AND MAINTAIN ALL
- EXISTING ROOF DRAINS/LINES ON ALL FLOORS THROUGHOUT DEMOLITION. 16. SHORING/SUPPORTS TO BE PROVIDED AT ALL DEMOLITION LOCATIONS AS REQUIRED
- BY THE STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS. 17. ALL STRUCTURAL COLUMNS, BEAMS, FLOOR/CEILING SLABS TO REMAIN EXCEPT
- WHERE INDICATED BY STRUCTURAL ENGINEER. SEE STRUCTURAL SHEETS. 18. COORDINATE THE REMOVAL AND SALVAGING OF EXISTING EQUIPMENT WITH EQUIPMENT SCHEDULE.

# **KEYED NOTES - DEMOLITION PLANS**

- REMOVE EXISTING WINDOW.
- REMOVE EXISTING DOOR LEAF. DOOR FRAME TO REMAIN.
- REMOVE EXISTING DOOR FRAME
- REMOVE EXISTING WALL/PARTITION, OR PORTION THEREOF AS INDICATED, TYP.
- EXISTING PANELING TO BE REMOVED ALONG WITH ALL ASSOCIATED STRUCTURE. REMOVE EXISTING FLOOR FINISH.
- PROVIDE EXPLORATORY DEMOLITION OF TILE AT EXISTING HEARTH TO DETERMINE IF
- HISTORIC STONE SUBSTRATE STILL EXIST. REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
- REMOVE ALL EXISTING PLUMBING FIXTURES, TYP.
- 10 REMOVE ALL EXISTING APPLIANCE, TYP.
- 11 REMOVE EXISTING AC UNIT
- 12 REMOVE EXISTING ELECTRICAL PANEL, OUTLETS, SWITCHES, AND CONDUIT
- 13 REMOVE EXISTING DROP CEILING, LIGHT FIXTURES, AND ASSOCIATED STRUCTURE.
- 14 REMOVE EXISTING ATTIC ACCESS HATCH.
- 15 EXISTING STONE HEARTH TO REMAIN. 16 REMOVE EXISTING STONE STEP. RETAIN FOR REUSE.
- 17 EXISTING WOOD PANELING TO BE REMOVED.
- 18 REMOVE EXISTING FURNACE AND WATER HEATER.
- 19 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIN FOR REUSE. 20 REMOVE EXISTING GUTTER AND DOWN SPOUT
- 21 DASHED LINES INDICATE EXPECTED LOCATION OF EXISTING HALF LOG FINISHED CEILING. CAREFULLY REMOVE EXISTING LOGS AND STORE ON SITE FOR EVALUATION
- AND REUSE. CLEAN AND PREP AREA FOR NEW FINISH. 22 REMOVE EXISTING ELECTRICAL PANEL AND RELOCATE TO WALL ADJACENT TO BATHROOM. SEE NEW FLOOR PLANS.

#### STATE OF MISSOURI MICHAEL L. PARSON,



**GOVERNOR** 

ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

STATE OF MISSOURI

PROFESSIONAL SEAL



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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF

STATE PARKS

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

PATTERSON, MO 63956

5218

ASSET#	
CABIN #1:	7815218008
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REVISION:	

PROJECT # X2319-01

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CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

SHEET TITLE:

CABIN #19 - FLOOR PLANS - DEMOLITION

SHEET NUMBER:

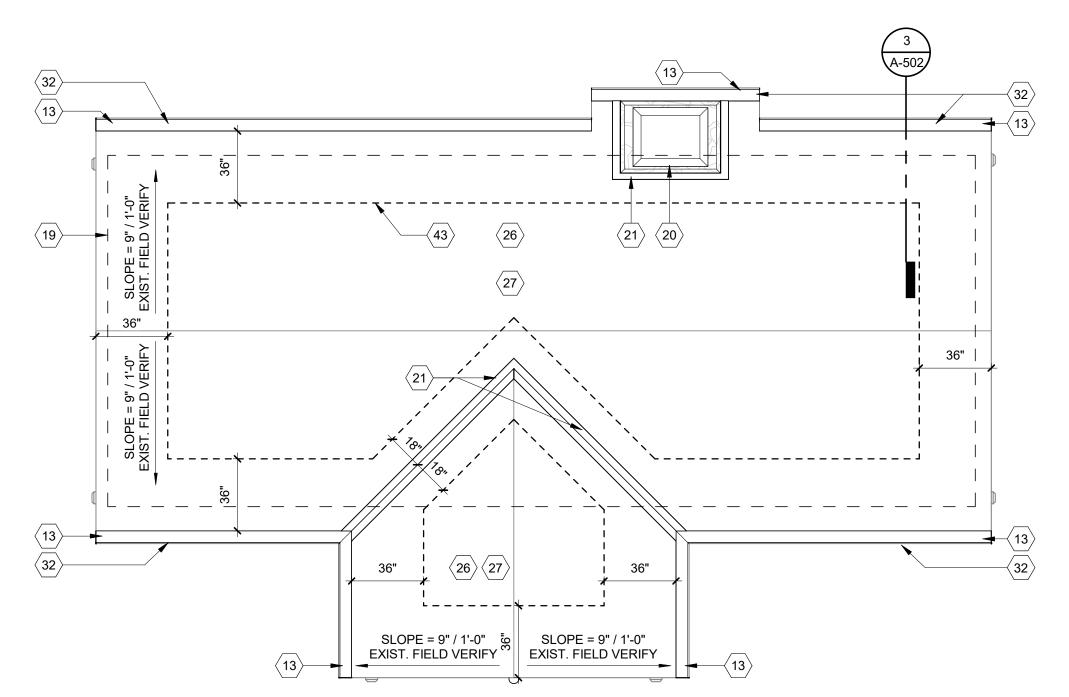
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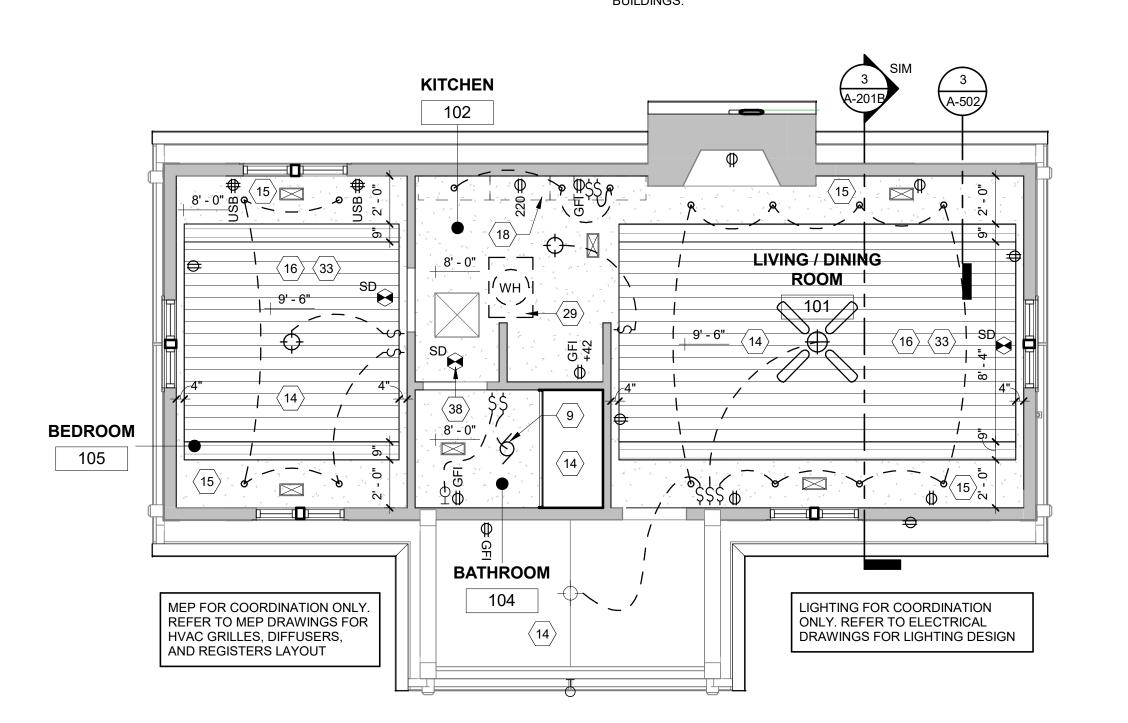
27 OF 54 SHEETS

- 1. ALL NEW WORK SHALL MEET ALL APPLICABLE CODE AND ORDINANCE REQUIREMENTS. SEE COVER SHEET FOR APPLICABLE CODES.
- SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS.
- ALL ROOF SLOPES ARE EXISTING.
- ALL SHEET METAL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH THE GUIDELINES AND RECOMMENDATIONS PER THE CURRENT ADDITION OF THE SMACNA
- ARCHITECTURAL SHEET METAL MANUAL AT UNVENTED ATTIC ASSEMBLIES, AIR-IMPERMEABLE INSULATION AS DEFINED BY ASTM E 183 SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING.

#### **GENERAL NOTES - REFLECTED CEILING PLANS**

- 1. ALL LIGHTS AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND SELECTED BY OWNER.
- 2. CONFIRM ALL LIGHT, SWITCH AND POWER LOCATIONS WITH OWNER.





**GENERAL NOTES - MASONRY RESTORATION** 

1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE

3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING

PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO

GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON

WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING

HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND

(< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO

PROSOCO SÚREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE

EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH

2. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING

CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

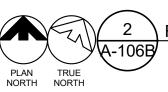
UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE.

THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND

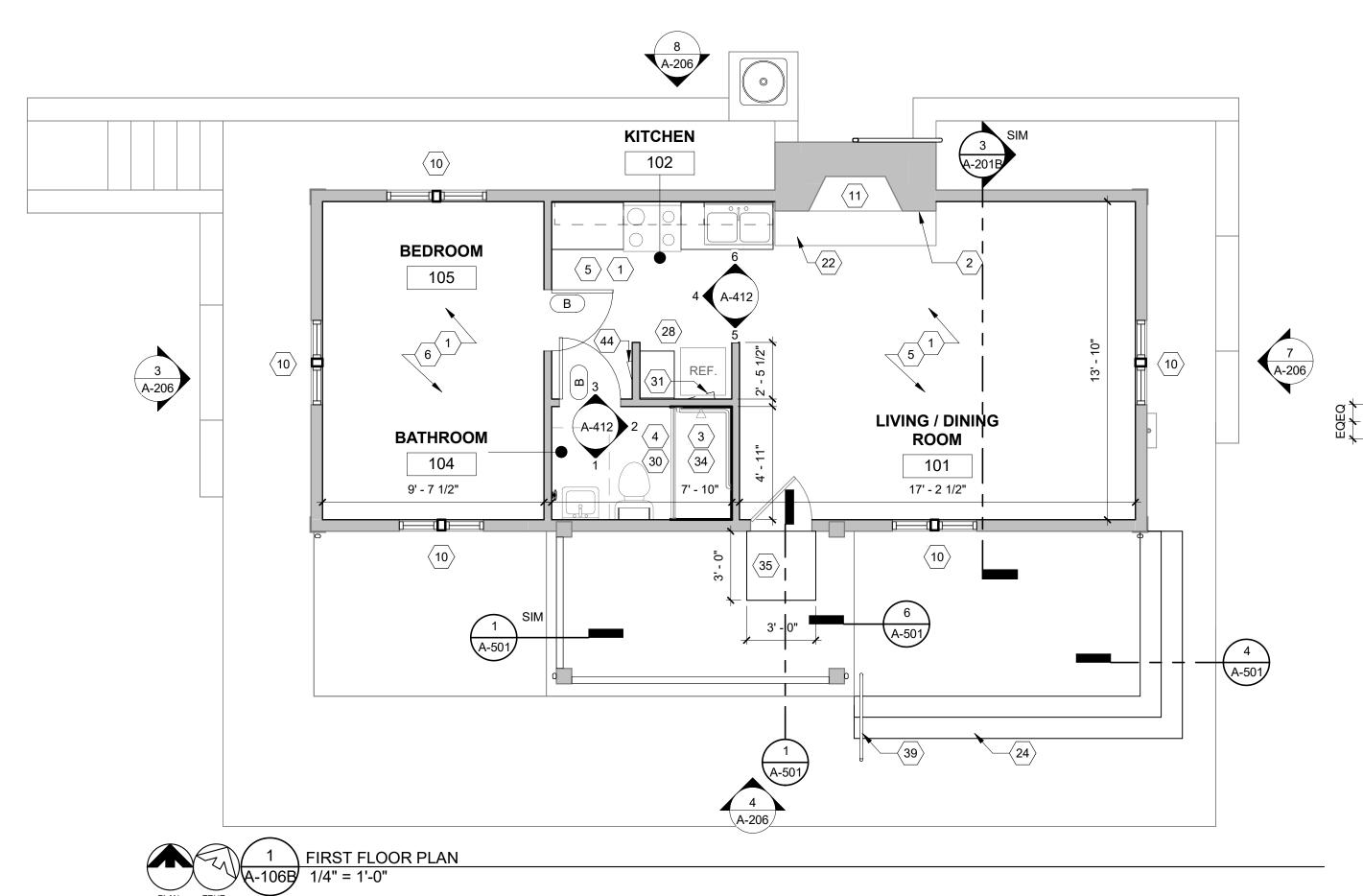
DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST

MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH

EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT



FLOOR REFLECTED CEILING PLAN



# **GENERAL NOTES - FLOOR PLANS**

- 1. ALL GYPSUM BOARD THROUGHOUT TO BE 5/8" MINIMUM THICKNESS.
- 2. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
- ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE
- 4. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
- WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY
- ARCHITECT OF DEVIATIONS. 6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF
- INTENDED FINISHES SHOWN FOR COORDINATION. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH

#### **KEYED NOTES - NEW FLOOR PLANS**

- NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING. REFER TO ROOM FINISH
- SCHEDULE. SEE SPEC. EXPOSED STONE - CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO

MATCH COLOR, TEXTURE, AND STYLE. MORTAR STRENGTH SHOULD BE LESS THAN

- SURROUNDING MASONRY UNITS. 3 6X6 TILE, SELECTED BY OWNER.
- 4 6X6 CERAMIC FLOOR TILE.
- 5 LUXURY VINYL TILE
- 50 CM X 50 CM CARPET SQUARES.
- STONE TILE HEARTH TO MATCH ADJACENT CABINS, CLEAN AND REFURBISH
- INFILL WITH NEW FRAMING AND GYPSUM BOARD WHERE ACCESS HATCH WAS REMOVED. EXHAUST LOUVER/FAN, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- 10 NEW WINDOW IN OPENING SEE ELEV. FOR TYPE NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- 11 ALTERNATE #1:PRE-MANUFACTURED FIREPLACE INSERT, PROVIDE NEW POWER. SEE
- 12 DASHED LINES INDICATES ATTIC ACCESS ABOVE, COORDINATE WITH MECHANICAL. 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS,
- COORDINATE WITH CIVIL. 14 PROVIDE NEW ELECTRICAL OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT, REFER TO
- **ELECTRICAL DRAWINGS** 15 GYPSUM BOARD SOFFIT
- 16 BASE BID: VAULTED CEILING. NEW RANDOM WIDTH YELLOW PINE T&G BOARD PANELING.
- REFER TO ROOM FINISH SCHEDULE. SEE SPEC.
- 17 ATTIC ACCESS (22" X 30" MIN.) COORDINATE SIZE WITH HVAC/WATER HEATER DIMENSIONS TO BE INSTALLED IN ATTIC.
- 18 HOOD EXHAUST. COORDINATE LOCATION WITH MECHANICAL DRAWINGS. 19 DASHED LINE INDICATES EXTERIOR WALL BELOW.
- 20 NEW METAL CHIMNEY CAP
- 21 NEW EXPOSED SHEET METAL VALLEY FLASHING OVER ICE AND WATER SHEILD. 22 EXISTING STONE HEARTH
- 23 INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS REMOVED. 24 NEW STONE STEPS
- 25 NEW ELECTRICAL PANEL
- BETWEEN EACH LAYER

26 BASE BID: NEW ASPHALT ROOFING AND UNDERLAYMENT.

- 27 ALTERNATE #2: SYNTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER
- 28 NEW FURNACE AND WATER HEATER
- 29 NEW WATER HEATER TANK WITH DRAIN PAN ABOVE CEILING.
- 30 MOISTURE RESISTANT GYPSUM. G.P. DENSEGLASS OR EQUAL. 31 PROVIDE 18 X 18 STEEL ACCESS PANEL DOOR, HINGED WITH LATCH, FOR SHOWER
- 32 NEW 6" HALF ROUND EXTENDED FLANGE GUTTER
- 33 NEW GYPSUM WALL BOARD. REFER TO ROOM FINISH SCHEDULE. SEE SPEC. 34 ZERO ENTRY PRE-MANUFACTURED SHOWER BASE INSERT. ALLOW SLOT DRAIN SET IN
- RE-POURED CONCRETE FLOOR UNDER EXISTING TUB SHOWER.
- 35 NEW CONCRETE TOPPING SLAB 37 NEW FOAM PLUG IN FLUE TO ACHIEVE MIN. R40
- 38 SMOKE DETECTOR LOCATED IN ATTIC
- 39 NEW SURFACE MOUNTED HANDRAIL
- 40 ALTERNATE #4: WAINSCOAT. SEE PARTITION SCHEDULE, P3 ALTERNATE #4
- 41 EXISTING HARVESTED HALF LOG LUMBER. REATTACH TO NEW 5/8" OSB, PAINT. COLOR BY OWNER. REFER TO ROOM FINISH SCHEDULE
- 42 5/8" GYPSUM BOARD OVER EXISTING ROOF RAFTERS.
- 43 DASHED LINE INDICATES ICE AND WATER SHIELD.
- 44 NEW RELOCATED ELECTRICAL PANEL

#### REFLECTED CEILING PLAN LEGEND

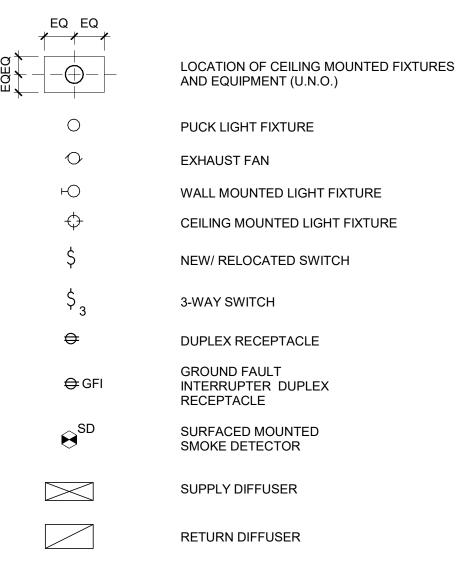


VENT PATH

GYPSUM BOARD CEILING (U.N.O.)

# LIGHTING/ELECTRICAL LEGEND

#### DESCRIPTION SYMBOL



#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



**ROBERT WILSON WAGSTAFF - ARCHITECT** STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

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SITE#

ASSET#

CAD DWG FILE: DRAWN BY: CHECKED BY: **DESIGNED BY:** SHEET TITLE:

CABIN #19 - FLOOR **PLANS** 

SHEET NUMBER:



# **GENERAL NOTES - MASONRY RESTORATION**

 RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

# **KEYED NOTES - EXTERIOR ELEVATIONS**

NEW 6" HALF ROUND EXTENDED FLANGE GUTTER

PRE-FINISHED METAL VALLEY FLASHING.

NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.

NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD. INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS

6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER. 7 NEW CONCRETE STEPS

8 NEW WOOD PICKETS

9 REPAIR WOOD LATTICE AS REQUIRED. 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.

12 NEW VENT AT CRAWL SPACE - PAINTED COMPOSITE. NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH

DRAINS, COORDINATE WITH CIVIL.

14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.

TEMPERED SIDELITES. FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING

16 PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING WINDOW FOR MILLING.

17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS.

19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER BETWEEN EACH LAYER

20 NEW INSECT SCREEN

21 NEW CONCRETE TOPPING SLAB

22 NEW METAL CHIMNEY CAP

23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.

24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.

25 NEW SUB SILL. 26 NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING

HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.

27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS.

# **KEYED NOTES - DEMOLITION ELEVATIONS**

REMOVE WINDOW

REMOVE EXISTING AC UNT

REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.

REMOVE EXISTING EXTERIOR LIGHT FIXTURE. REMOVE STONE STEP. RETAIN FOR REUSE.

REMOVE DAMAGED WOOD LATTICE SECTIONS.

REMOVE EXISTING ATTIC VENT 8 REMOVE EXISTING GUTTER AND DOWNSPOUT

9 REMOVE EXISTING VENT.

10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE

11 REMOVE EXISTING METAL CHIMNEY CAP

12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND REPLACE SUBSTRATE WHERE REQUIRED.

FIRST FLOOR 13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW PROFILE TO MATCH EXISTING. SEE SPEC.

14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.

15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR

16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.

17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

# **EXTERIOR MATERIALS LEGEND**

STONE VENEER SAWED SIDING, PAINTED LOG SIDING - MEDOW VALLEY 2 X 6 X 16' SPRUCE SMOOTH TRIM/ PANEL ASPHALT SHINGLE

CONCRETE

ARCHITECTURAL SHINGLE

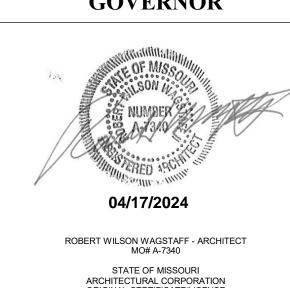
**DESIGNED BY:** SHEET TITLE: CABIN #1 - EXTERIOR

ELEVATIONS - NORTH, SOUTH, AND WEST

29 OF 54 SHEETS 04/17/24

MICHAEL L. PARSON, **GOVERNOR** 

STATE OF MISSOURI



ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

PROFESSIONAL SEAL



MANAGEMENT, **DESIGN AND CONSCTRUCTION DEPARTMENT OF NATURAL** 

**OFFICE OF ADMINISTRATION DIVISION OF FACILITIES** 

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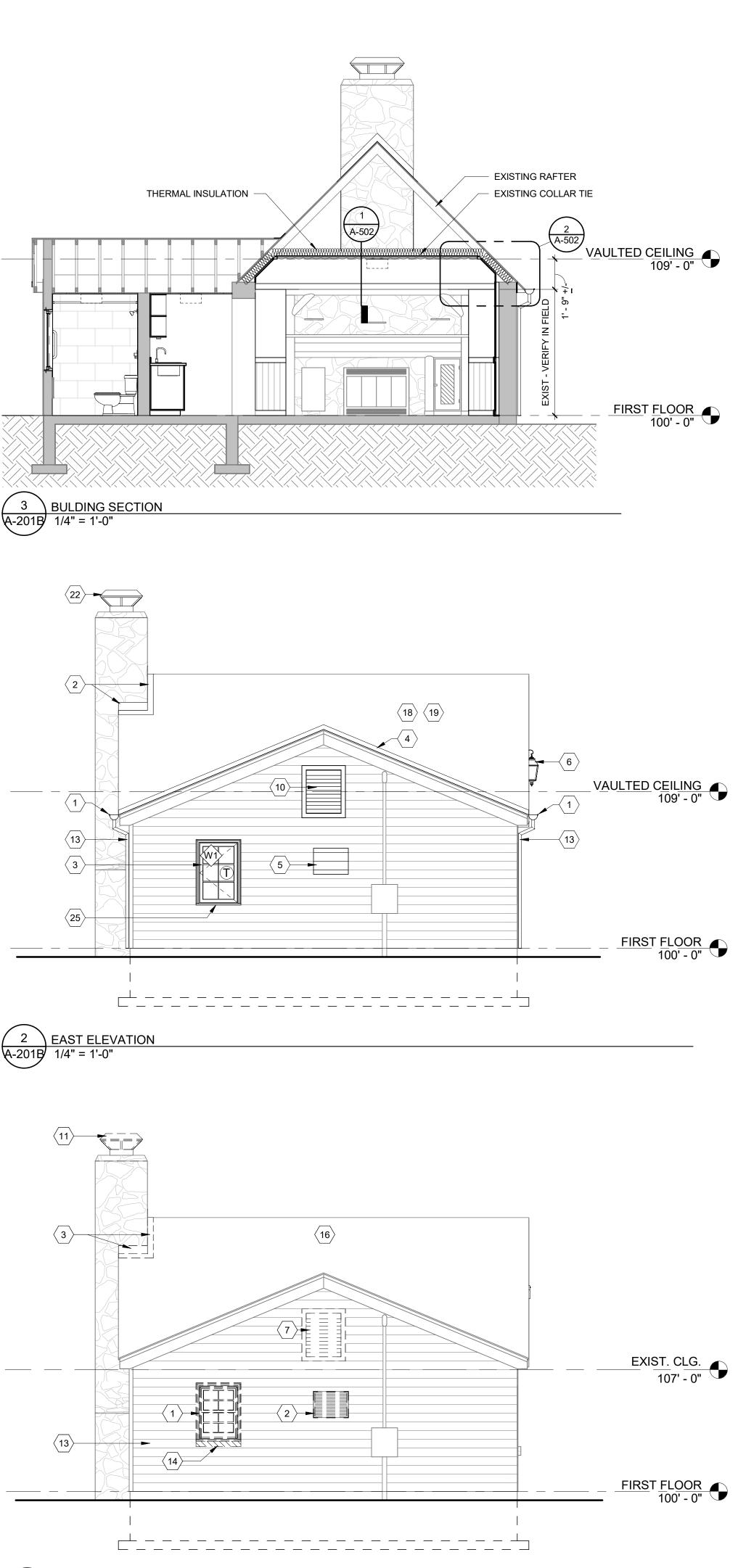
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1 EAST ELEVATION - DEMOLITION

# **GENERAL NOTES - MASONRY RESTORATION**

\* NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS

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- DRAINS, COORDINATE WITH CIVIL.
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JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.

27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS. 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO

# **KEYED NOTES - DEMOLITION ELEVATIONS**

REMOVE WINDOW

REMOVE EXISTING AC UNT REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.

STORMWATER PIPING, COORDINATE WITH CIVIL.

- REMOVE EXISTING EXTERIOR LIGHT FIXTURE.
- REMOVE STONE STEP. RETAIN FOR REUSE. 6 REMOVE DAMAGED WOOD LATTICE SECTIONS.
- REMOVE EXISTING ATTIC VENT 8 REMOVE EXISTING GUTTER AND DOWNSPOUT
- 9 REMOVE EXISTING VENT.
- 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE

11 REMOVE EXISTING METAL CHIMNEY CAP

- 12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND REPLACE SUBSTRATE WHERE REQUIRED.
- 13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW PROFILE TO MATCH EXISTING. SEE SPEC.

14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.

- 15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR
- 16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.
- 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

# **EXTERIOR MATERIALS LEGEND**



ASPHALT SHINGLE

ARCHITECTURAL SHINGLE

CONCRETE

ROBERT WILSON WAGSTAFF - ARCHITECT STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639 PROFESSIONAL SEAL

STATE OF MISSOURI

MICHAEL L. PARSON,

**GOVERNOR** 



**DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

**OFFICE OF ADMINISTRATION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

5218

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE:	
ISSUEDATE:	

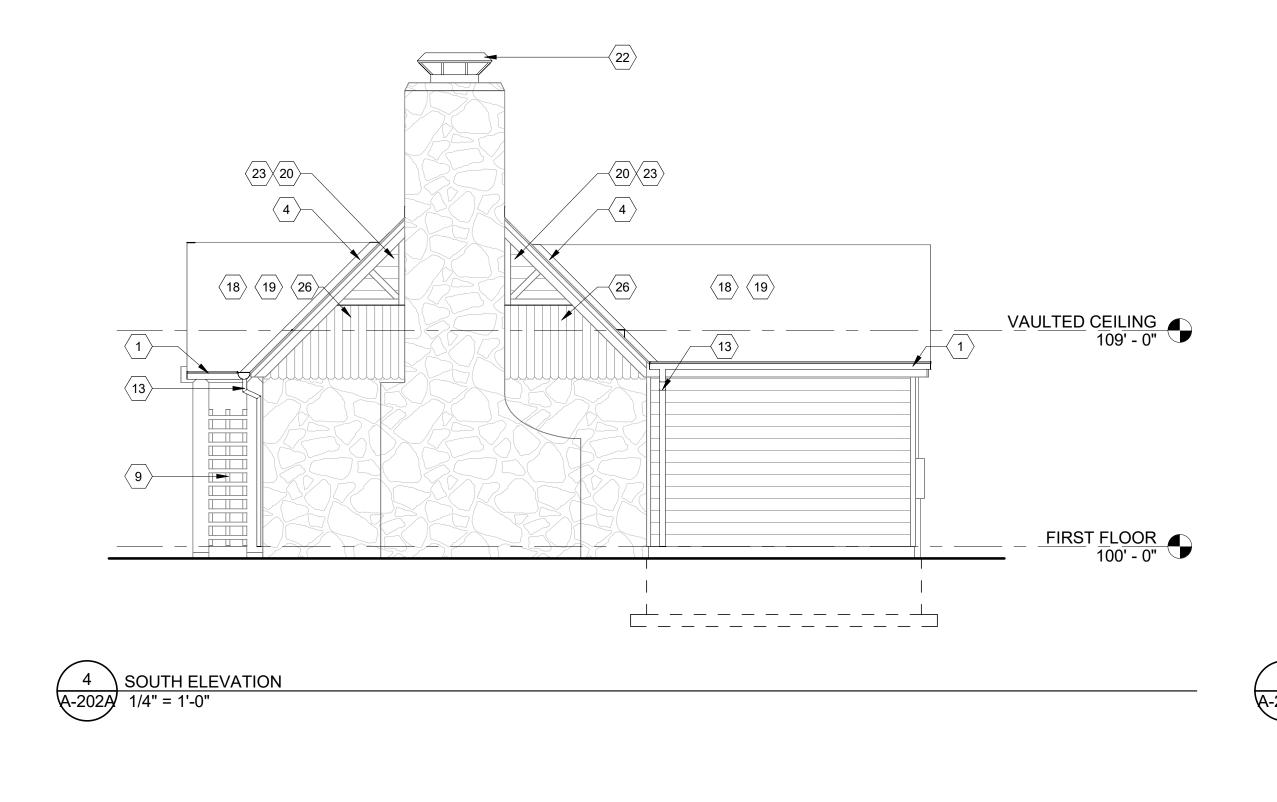
PROJECT # X2319-01

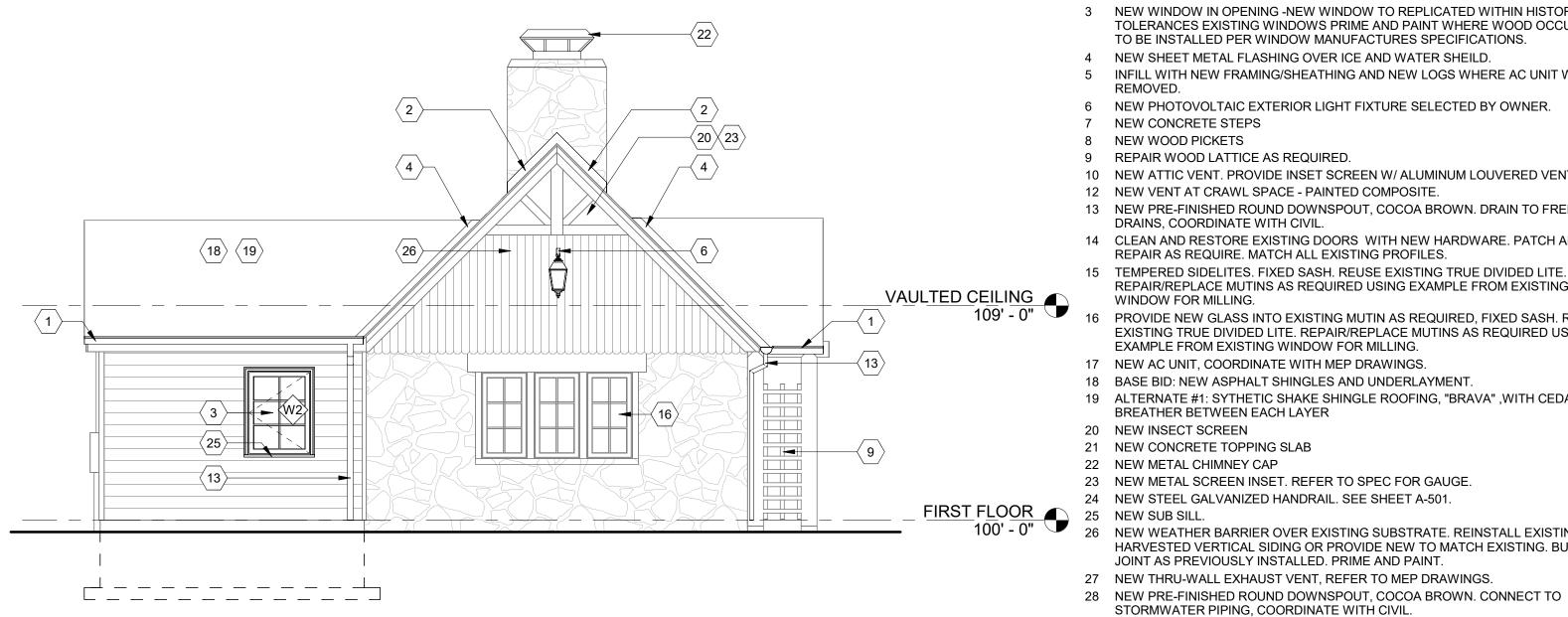
DESIGNED BY: SHEET TITLE: CABIN #1 - EXTERIOR

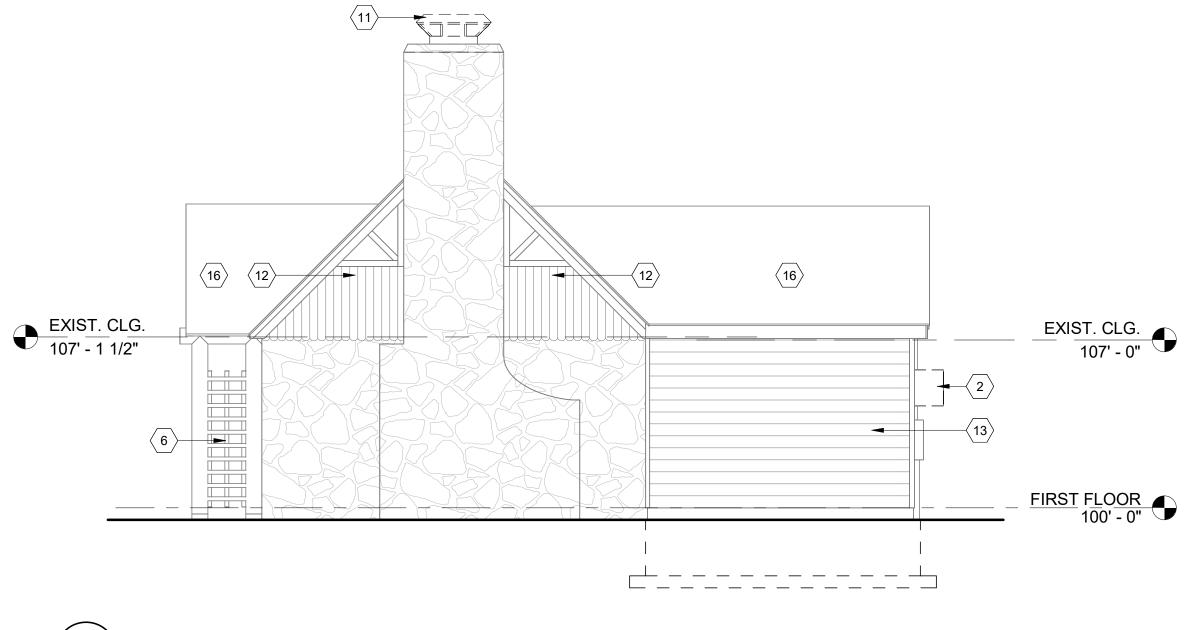
**ELEVATIONS AND BUILDING SECTION** 

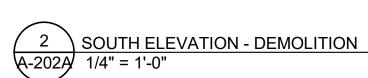
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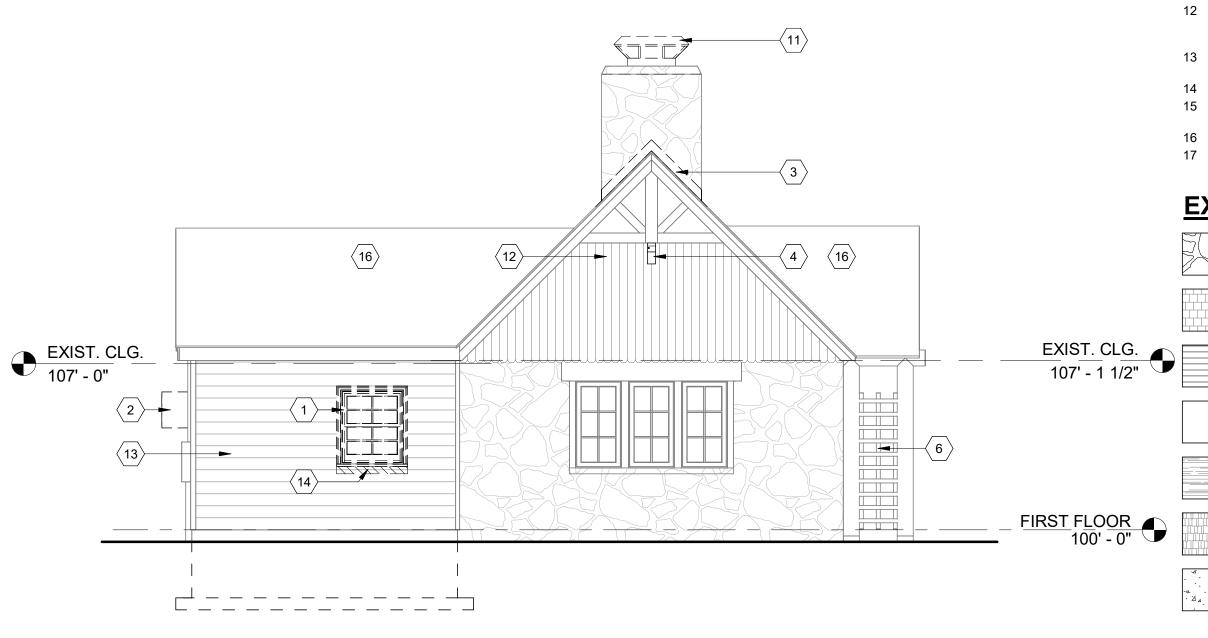
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NORTH ELEVATION - DEMOLITION

A-202A 1/4" = 1'-0"

# **GENERAL NOTES - MASONRY RESTORATION**

\* NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS

1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

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NEW 6" HALF ROUND EXTENDED FLANGE GUTTER

PRE-FINISHED METAL VALLEY FLASHING. NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.

NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD. INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS

6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.

7 NEW CONCRETE STEPS

8 NEW WOOD PICKETS

9 REPAIR WOOD LATTICE AS REQUIRED.

10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.

12 NEW VENT AT CRAWL SPACE - PAINTED COMPOSITE. 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH

DRAINS, COORDINATE WITH CIVIL.

14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.

- REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING
- PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING WINDOW FOR MILLING.
- 17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS. 18 BASE BID: NEW ASPHALT SHINGLES AND UNDERLAYMENT.
- 19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER BETWEEN EACH LAYER

20 NEW INSECT SCREEN

- 21 NEW CONCRETE TOPPING SLAB 22 NEW METAL CHIMNEY CAP
- 23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.
- 24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.
- NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.
- 27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS. 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO
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#### **KEYED NOTES - DEMOLITION ELEVATIONS**

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# **EXTERIOR MATERIALS LEGEND**



ASPHALT SHINGLE

ARCHITECTURAL SHINGLE

CONCRETE

DRAWN BY: CHECKED BY: **DESIGNED BY:** SHEET TITLE: CABIN #2 - EXTERIOR

STATE OF MISSOURI

MICHAEL L. PARSON,

**GOVERNOR** 

ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

NO. 000639

PROFESSIONAL SEAL

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**OFFICE OF ADMINISTRATION** 

**DIVISION OF FACILITIES** MANAGEMENT,

DESIGN AND CONSCTRUCTION

**DEPARTMENT OF NATURAL** 

RESOURCES DIVISION OF

STATE PARKS

PROJECT TITLE

RENOVATE CABINS 1-4, 14, & 19

SAM A. BAKER STATE PARK

SAM A. BAKER STATE PARK

5580 STATE HIGHWAY 143

PATTERSON, MO 63956

5218

7815218008

7815218007

7815218022

7815218005

7815218003

7815218019

PROJECT # X2319-01

SITE#

ASSET#

CABIN #1:

CABIN #2:

CABIN #3:

CABIN #4:

CABIN #14:

CABIN #19:

**REVISION:** 

DATE: REVISION:

DATE:

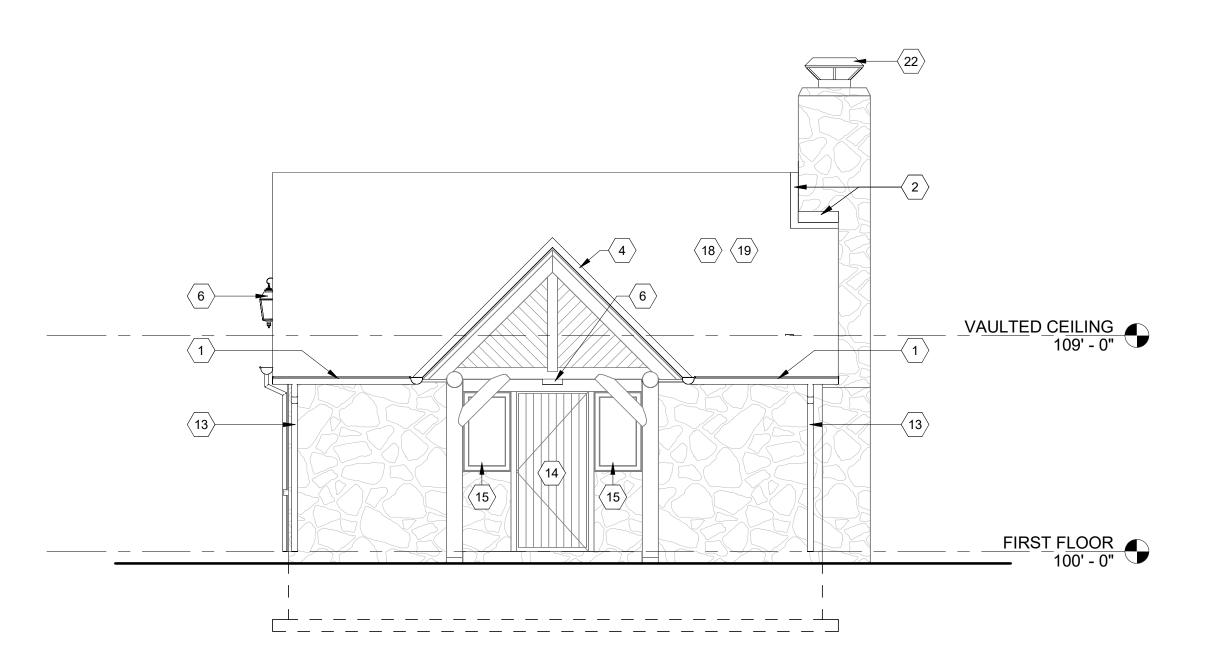
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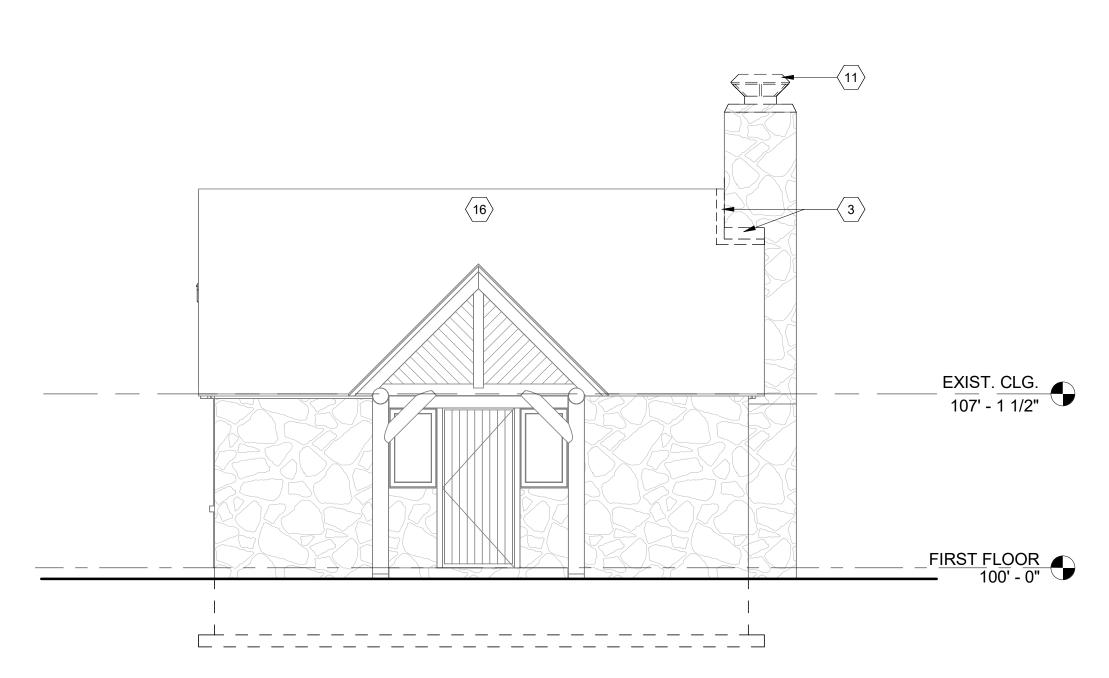
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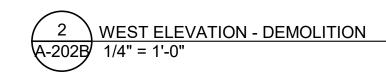
**REVISION:** 

**ELEVATIONS - NORTH** AND SOUTH

SHEET NUMBER:

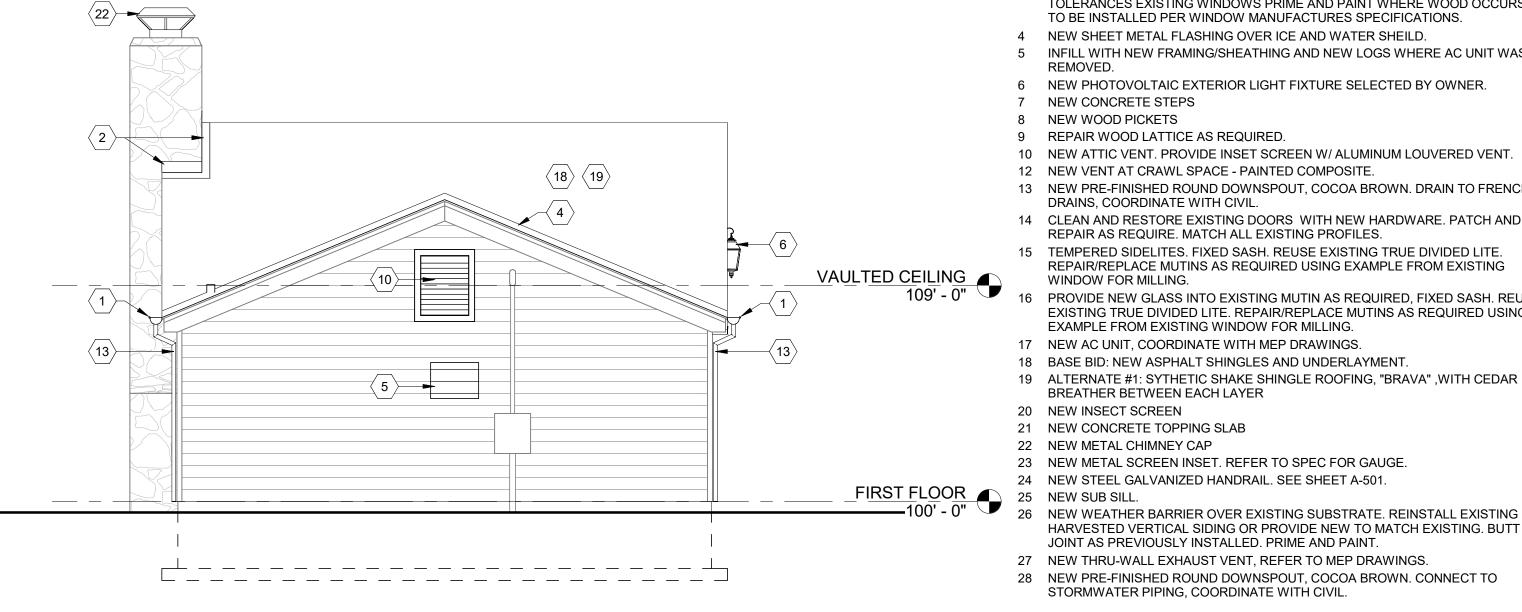


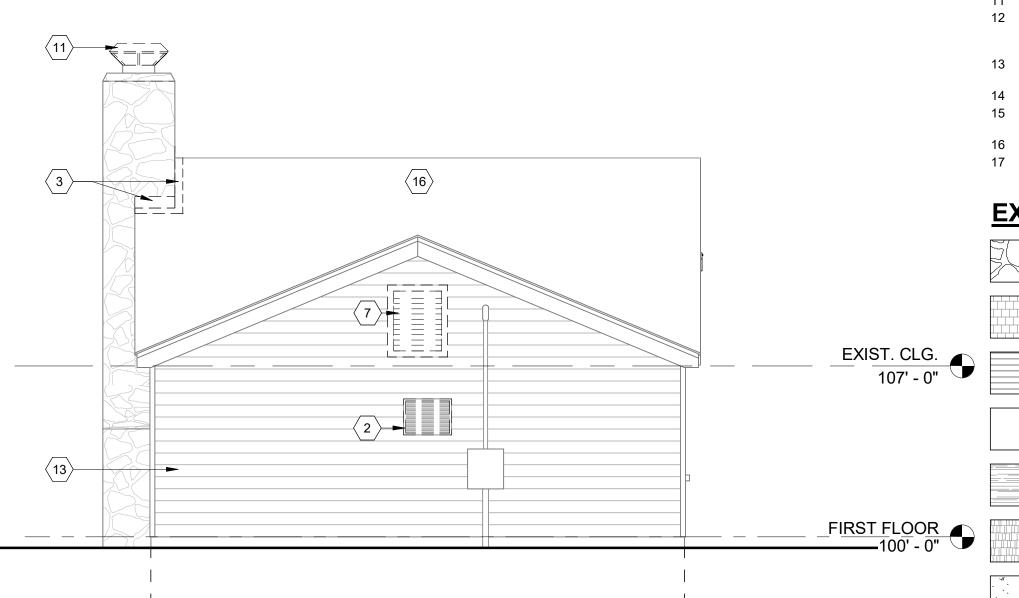




WEST ELEVATION

A-202B 1/4" = 1'-0"







EAST ELEVATION

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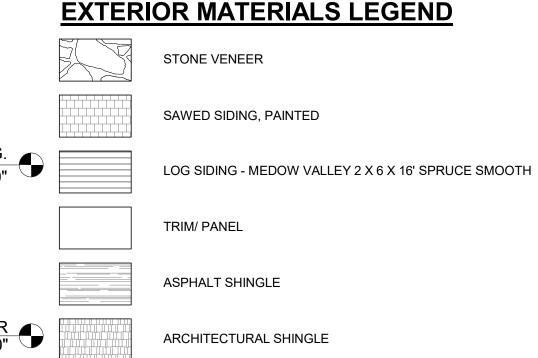
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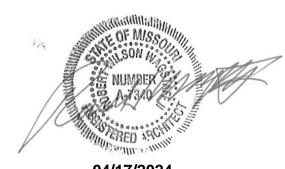
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CONCRETE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

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MANAGEMENT, DESIGN AND CONSCTRUCTION

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PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

SITE#	5218
ASSET#	
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CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE:	
CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:	JB RW

PROJECT # X2319-01

AND WEST

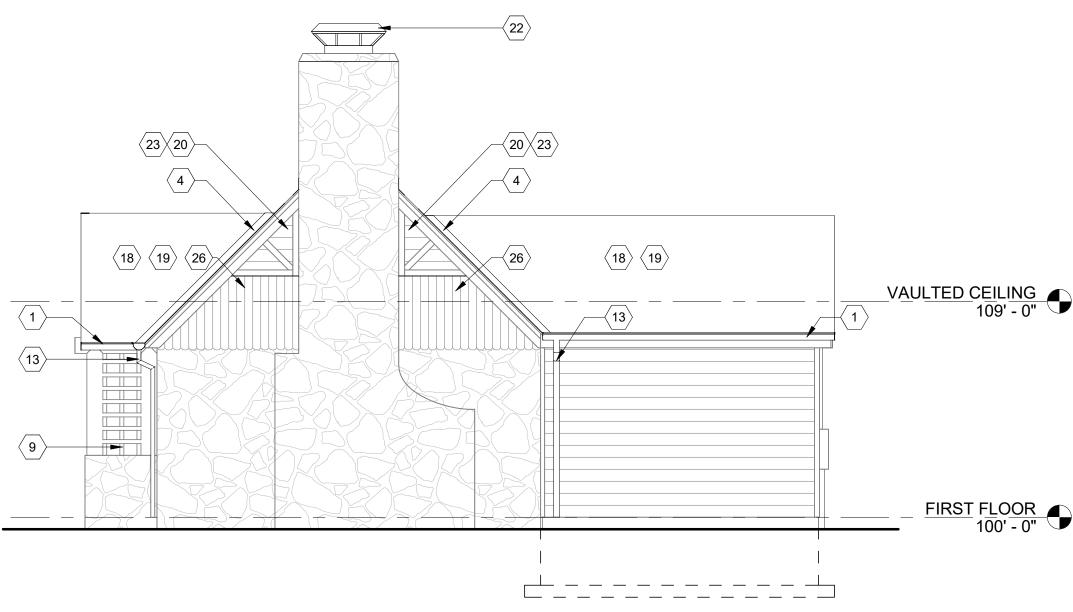
CABIN #2 - EXTERIOR

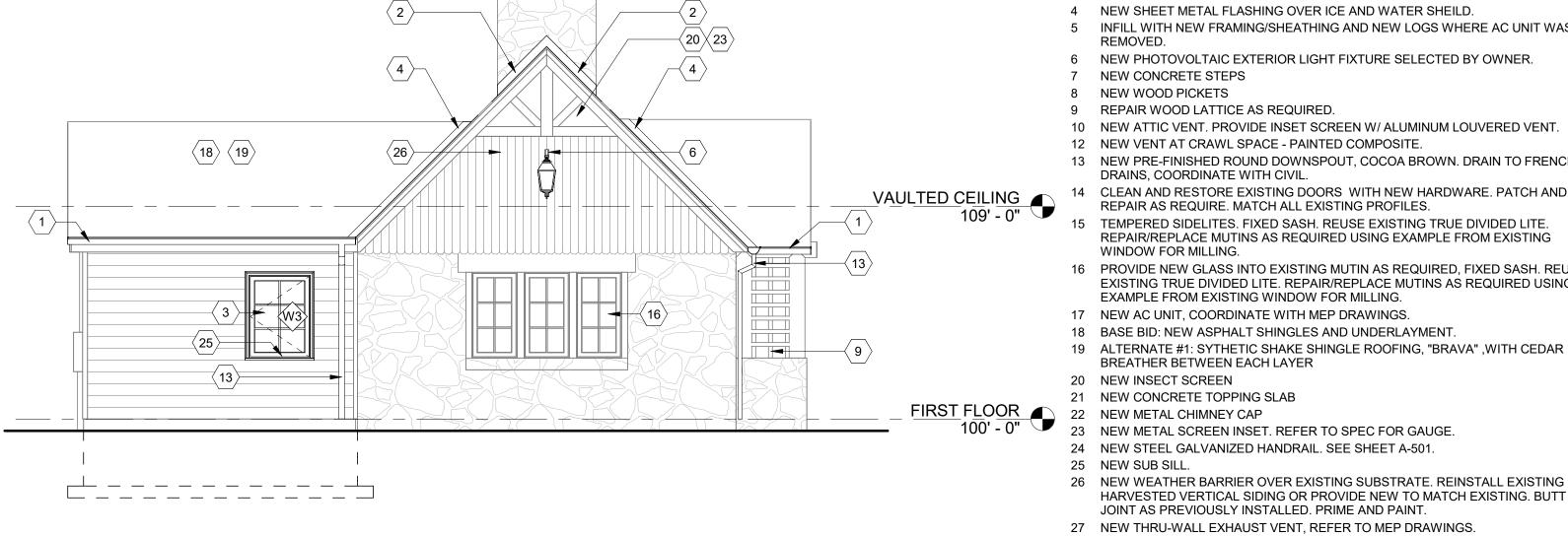
**ELEVATIONS - EAST** 

SHEET NUMBER:

32 OF 54 SHEETS 04/17/24

SHEET TITLE:





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**—**(11)



5 REMOVE STONE STEP. RETAIN FOR REUSE.

6 REMOVE DAMAGED WOOD LATTICE SECTIONS.

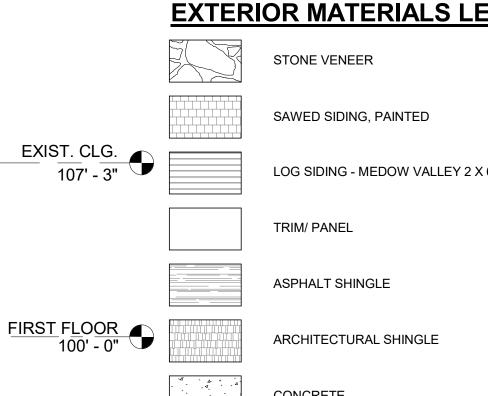
7 REMOVE EXISTING ATTIC VENT

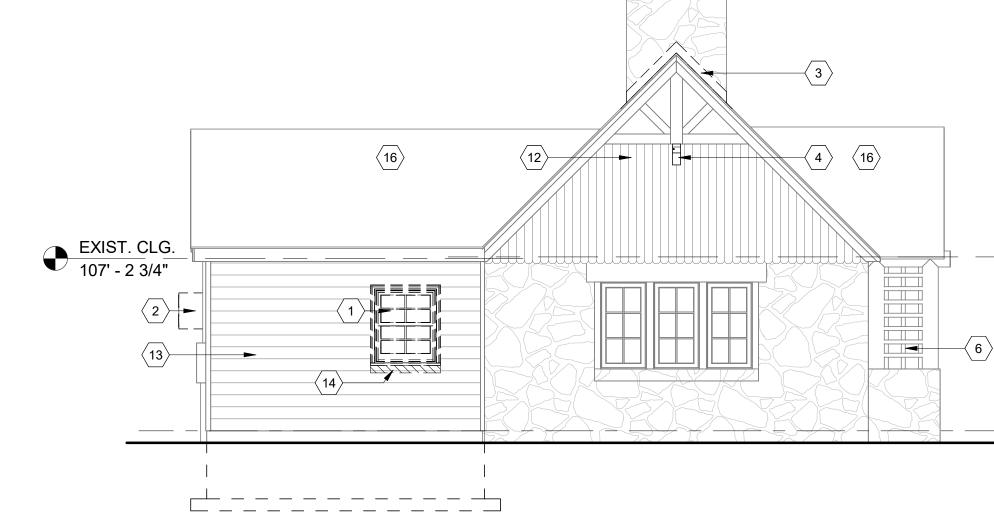
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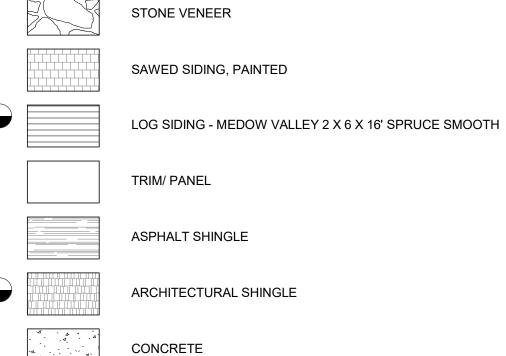
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PROJECT # X2319-01 SITE# 5218 ASSET# CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005 CABIN #14: 7815218003 CABIN #19: 7815218019 **REVISION:** DATE: REVISION: DATE: **REVISION:** DATE: ISSUEDATE: CAD DWG FILE:

STATE OF MISSOURI

MICHAEL L. PARSON,

**GOVERNOR** 

ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

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PROJECT TITLE

RENOVATE CABINS 1-4, 14, & 19

SAM A. BAKER STATE PARK

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PATTERSON, MO 63956

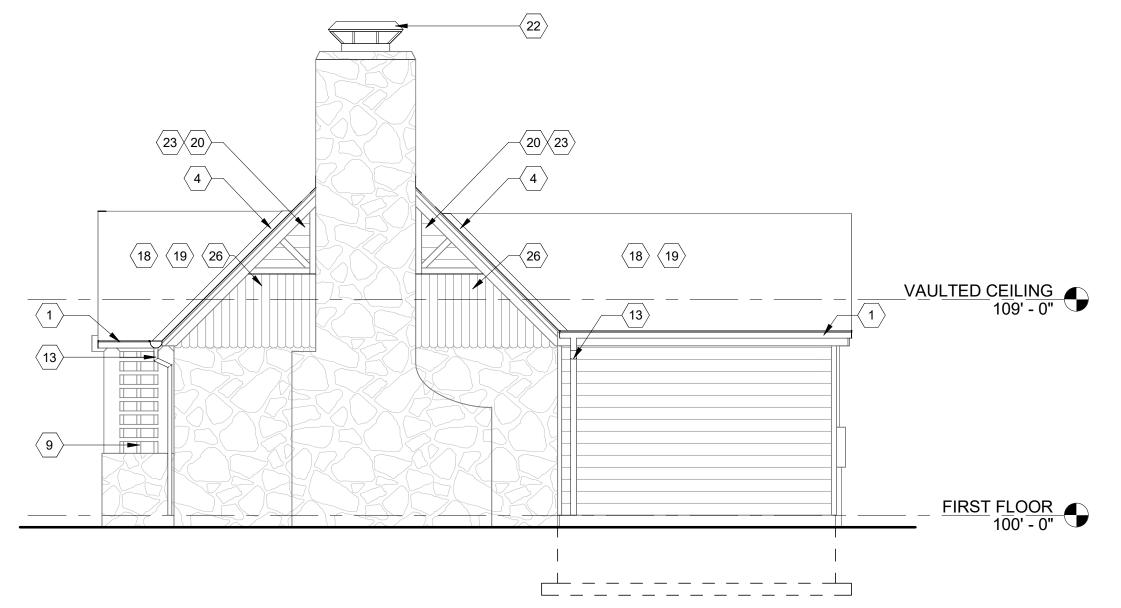
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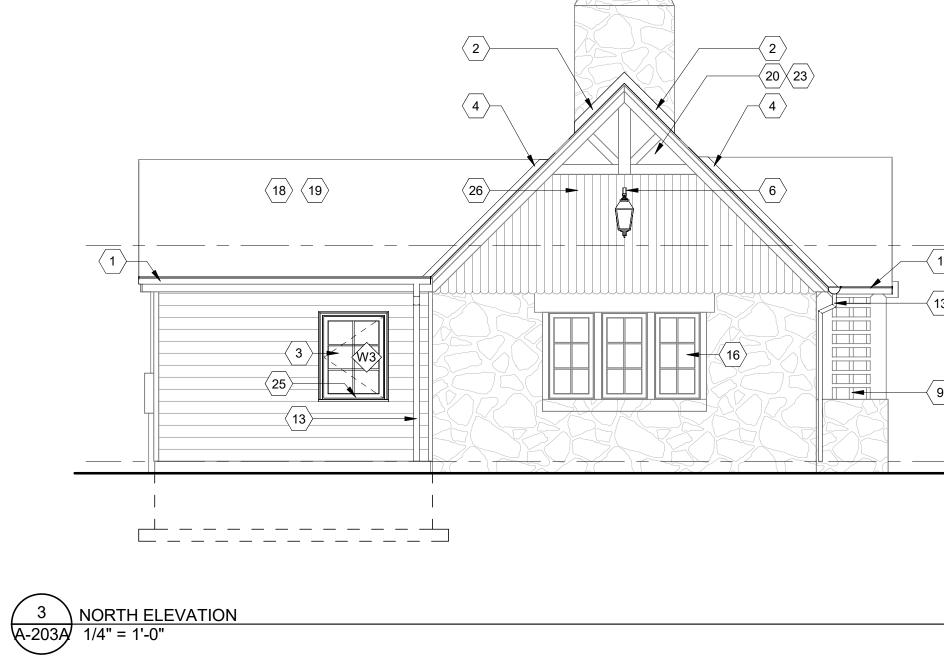
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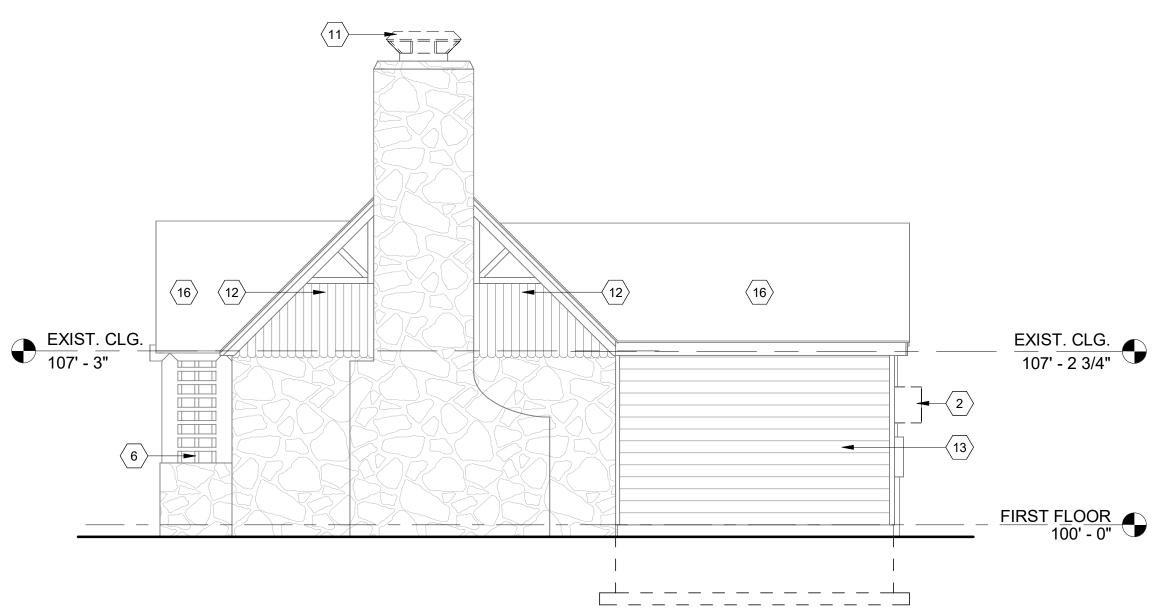
CABIN #3 - EXTERIOR **ELEVATIONS - NORTH** AND SOUTH

SHEET NUMBER:

33 OF 54 SHEETS 04/17/24



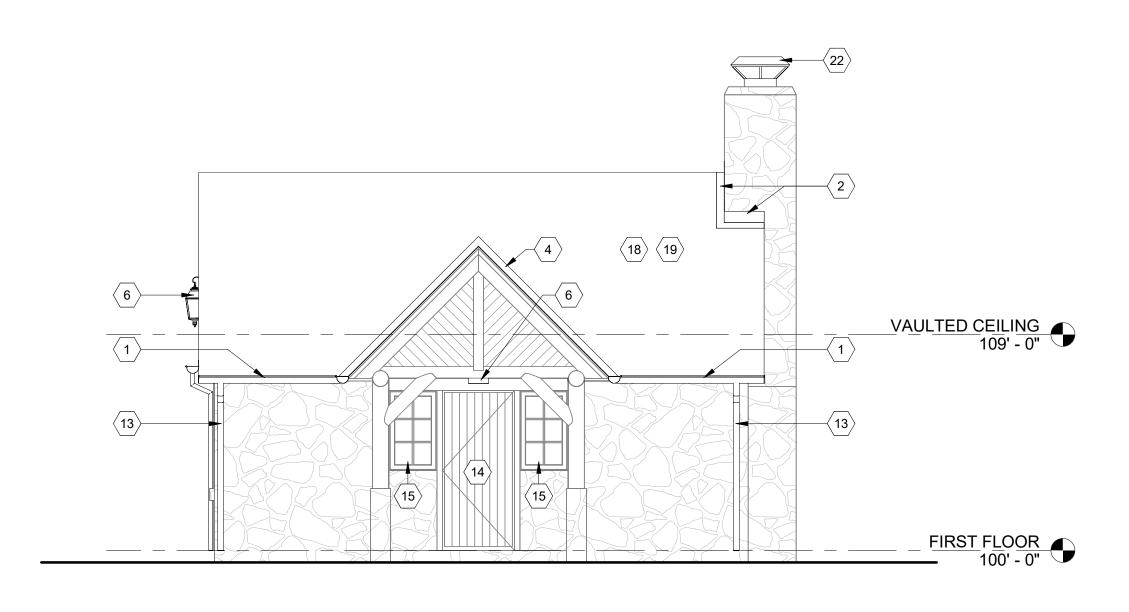


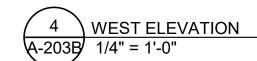


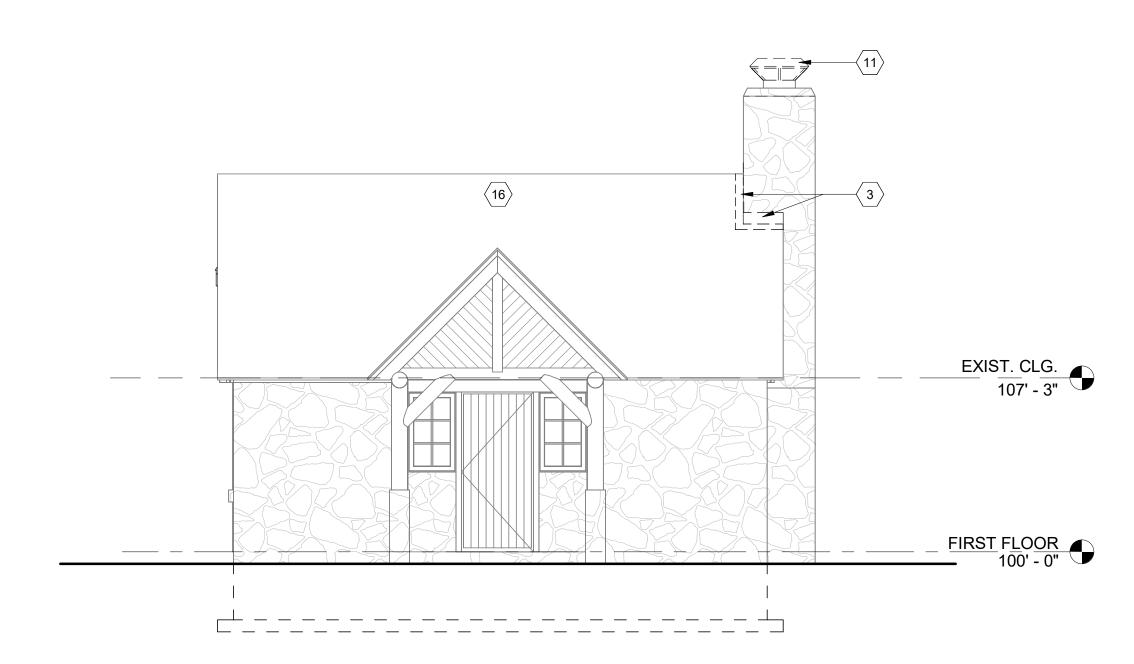


SOUTH ELEVATION

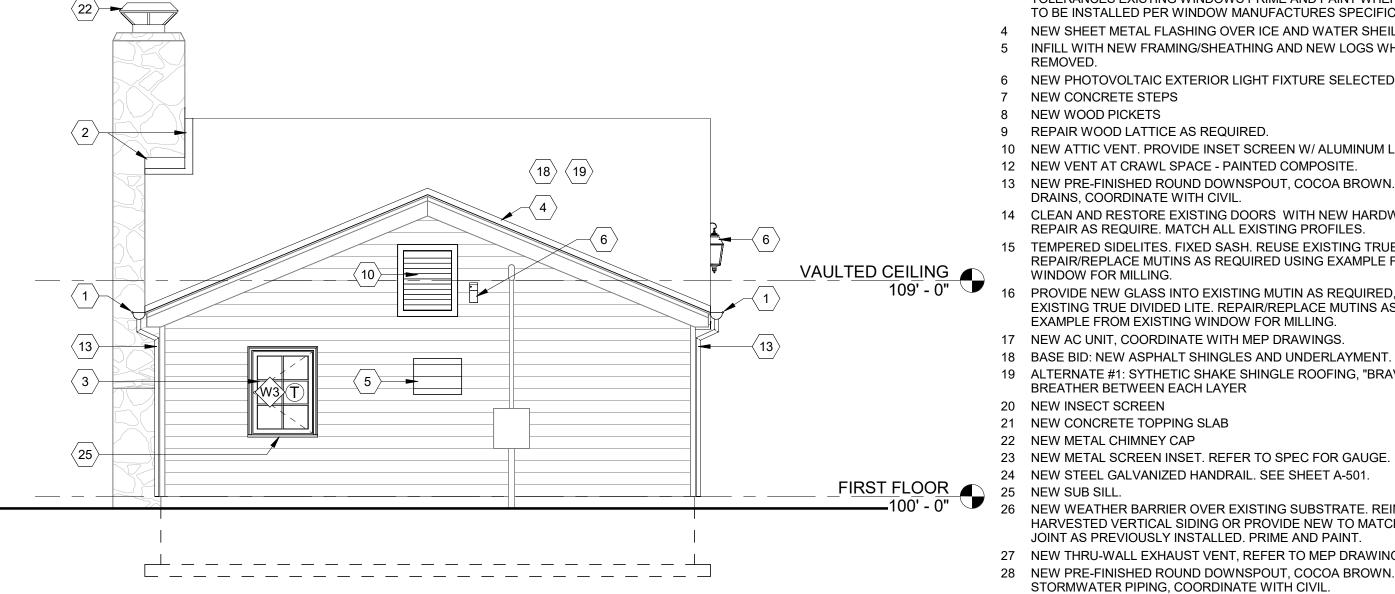
A-203A 1/4" = 1'-0"

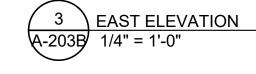


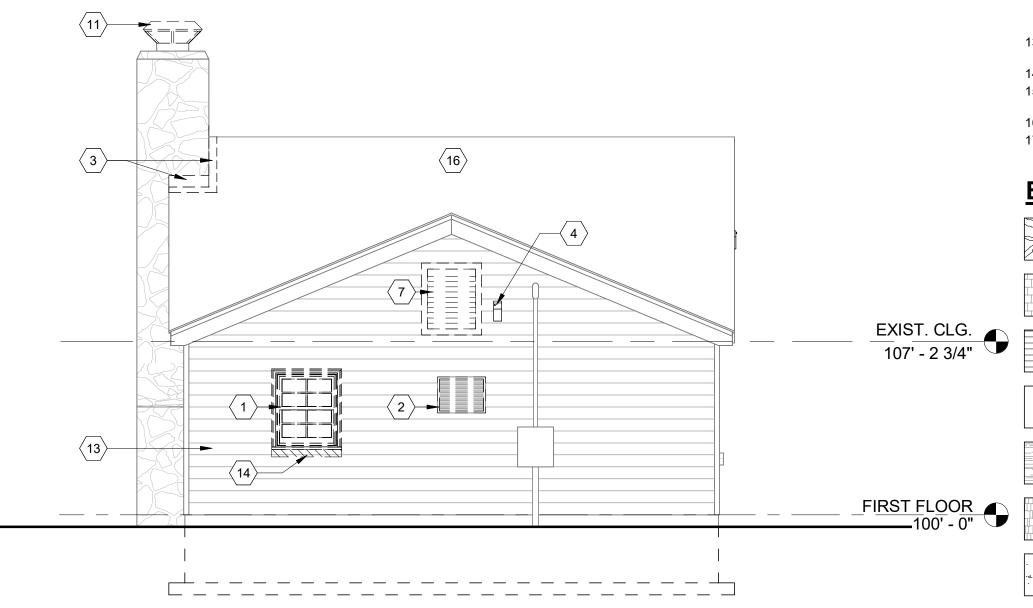












**EAST ELEVATION - DEMOLITION** 

# **GENERAL NOTES - MASONRY RESTORATION**

\* NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS 1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING

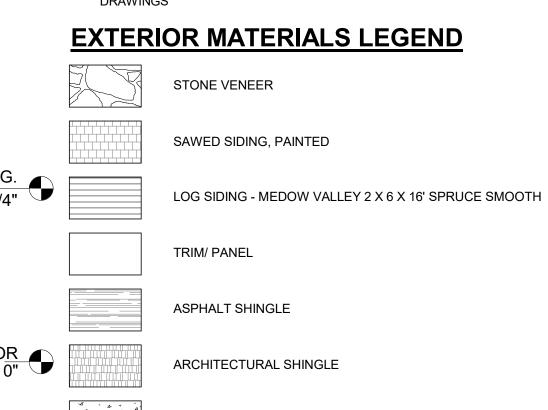
# **KEYED NOTES - EXTERIOR ELEVATIONS**

CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

- NEW 6" HALF ROUND EXTENDED FLANGE GUTTER PRE-FINISHED METAL VALLEY FLASHING.
- NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD.
- INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS
- 6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.
- 7 NEW CONCRETE STEPS
- 8 NEW WOOD PICKETS
- 9 REPAIR WOOD LATTICE AS REQUIRED. 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.
- 12 NEW VENT AT CRAWL SPACE PAINTED COMPOSITE.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH
- DRAINS, COORDINATE WITH CIVIL. 14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND
- REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.
- 15 TEMPERED SIDELITES. FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING
- PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING
- 17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS.
- 19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER BETWEEN EACH LAYER
- 20 NEW INSECT SCREEN 21 NEW CONCRETE TOPPING SLAB
- 22 NEW METAL CHIMNEY CAP
- 23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.
- 24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.
- NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING
- HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.
- 27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS. 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO

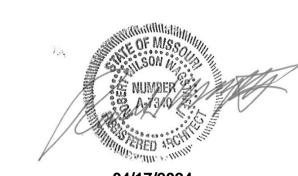
# **KEYED NOTES - DEMOLITION ELEVATIONS**

- REMOVE WINDOW
- REMOVE EXISTING AC UNT
- REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.
- 4 REMOVE EXISTING EXTERIOR LIGHT FIXTURE.
- 5 REMOVE STONE STEP. RETAIN FOR REUSE.
- 6 REMOVE DAMAGED WOOD LATTICE SECTIONS. 7 REMOVE EXISTING ATTIC VENT
- 8 REMOVE EXISTING GUTTER AND DOWNSPOUT
- 9 REMOVE EXISTING VENT.
- 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE
- 11 REMOVE EXISTING METAL CHIMNEY CAP
- 12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND REPLACE SUBSTRATE WHERE REQUIRED.
- 13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW PROFILE TO MATCH EXISTING. SEE SPEC.
- 14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.
- 15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR
- 16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.
- 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP



CONCRETE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

PROFESSIONAL SEAL

NO. 000639

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE



**DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

**OFFICE OF ADMINISTRATION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

SITE#	5218
ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE:	
CAD DWG FILE: DRAWN BY:	JB RW

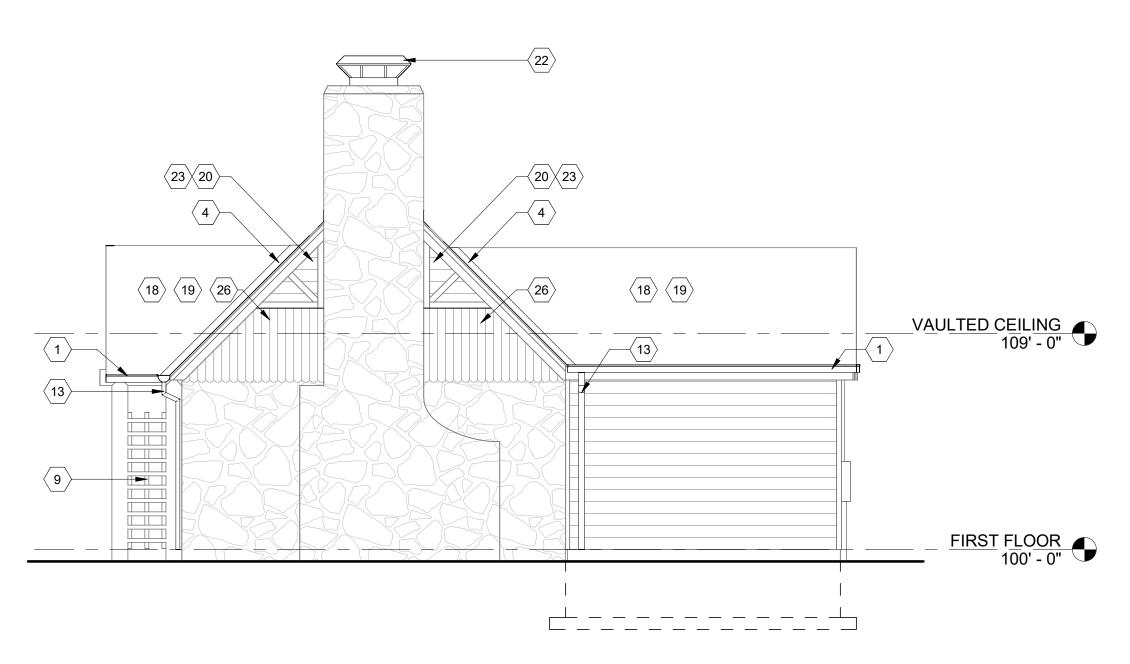
PROJECT # X2319-01

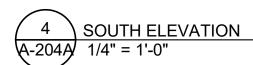
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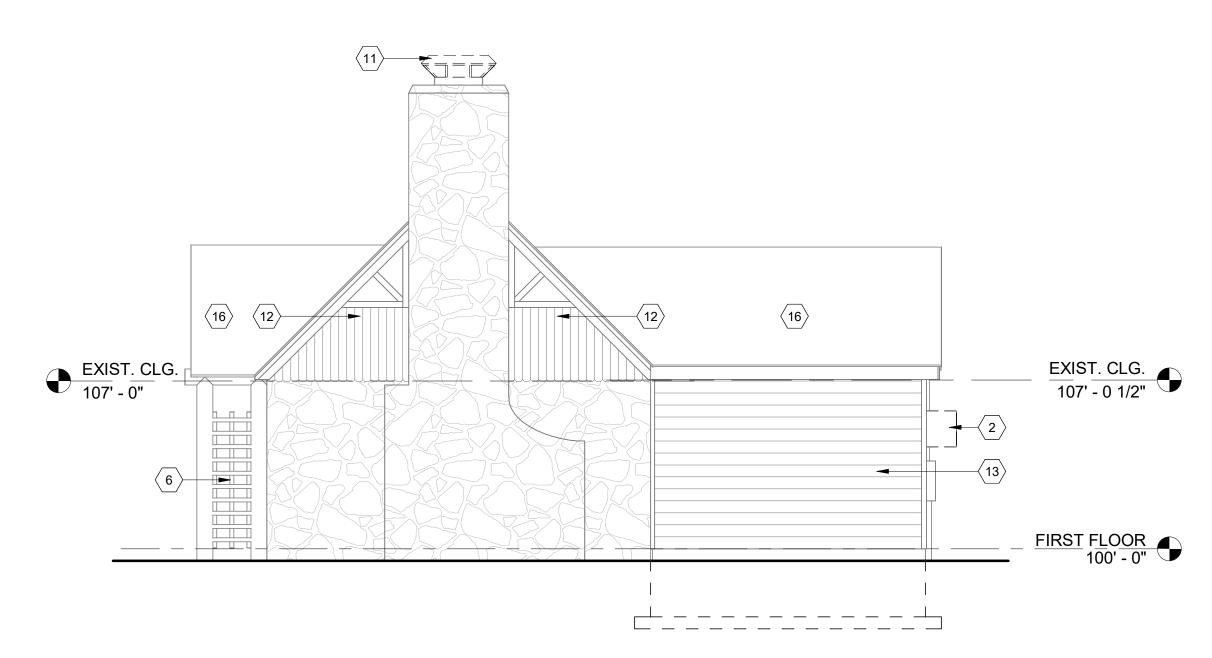
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CABIN #3 - EXTERIOR **ELEVATIONS - EAST** AND WEST

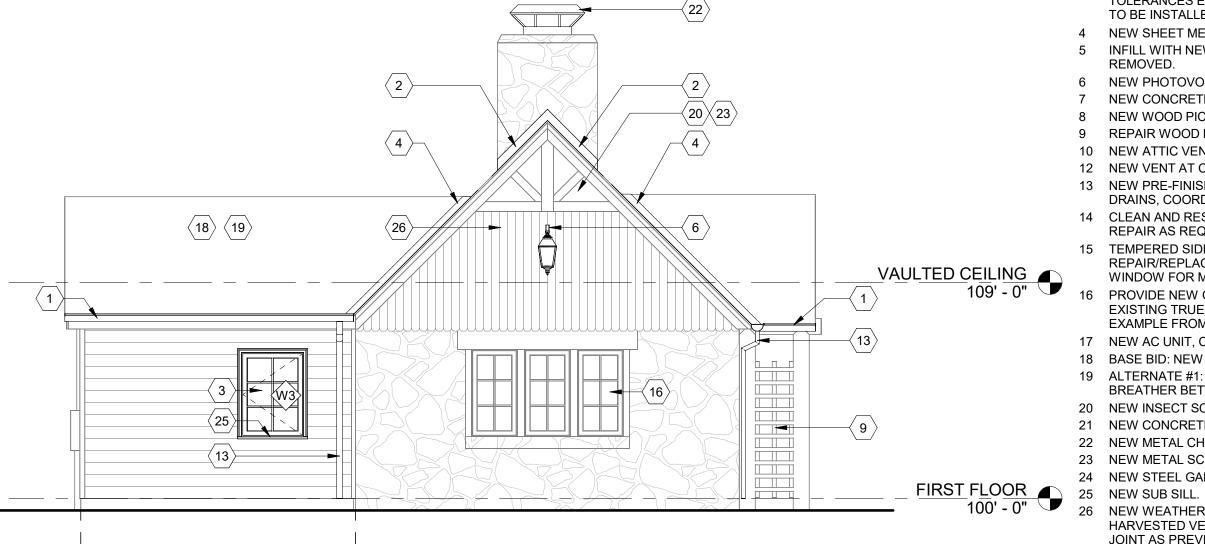
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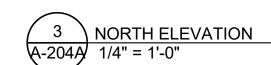


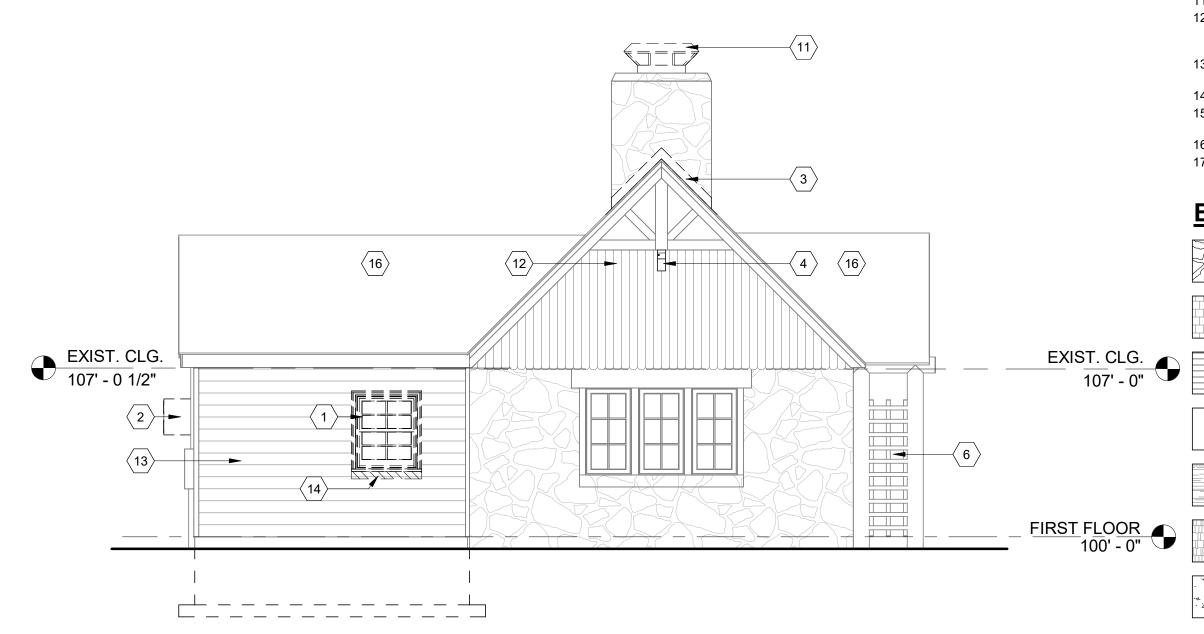












NORTH ELEVATION - DEMOLITION A-204A 1/4" = 1'-0"

# **GENERAL NOTES - MASONRY RESTORATION**

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# **KEYED NOTES - EXTERIOR ELEVATIONS**

STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

NEW 6" HALF ROUND EXTENDED FLANGE GUTTER

PRE-FINISHED METAL VALLEY FLASHING. NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.

NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD.

INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS

6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.

7 NEW CONCRETE STEPS

8 NEW WOOD PICKETS

9 REPAIR WOOD LATTICE AS REQUIRED. 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.

12 NEW VENT AT CRAWL SPACE - PAINTED COMPOSITE.

13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS, COORDINATE WITH CIVIL.

14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.

- 15 TEMPERED SIDELITES. FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING
- PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING WINDOW FOR MILLING.

17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS. 18 BASE BID: NEW ASPHALT SHINGLES AND UNDERLAYMENT.

19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR BREATHER BETWEEN EACH LAYER 20 NEW INSECT SCREEN

21 NEW CONCRETE TOPPING SLAB

22 NEW METAL CHIMNEY CAP

23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.

24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.

NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.

27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS. 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO

# **KEYED NOTES - DEMOLITION ELEVATIONS**

REMOVE WINDOW

REMOVE EXISTING AC UNT REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.

STORMWATER PIPING, COORDINATE WITH CIVIL.

4 REMOVE EXISTING EXTERIOR LIGHT FIXTURE.

5 REMOVE STONE STEP. RETAIN FOR REUSE.

6 REMOVE DAMAGED WOOD LATTICE SECTIONS.

7 REMOVE EXISTING ATTIC VENT

8 REMOVE EXISTING GUTTER AND DOWNSPOUT

9 REMOVE EXISTING VENT. 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE

11 REMOVE EXISTING METAL CHIMNEY CAP 12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND REPLACE SUBSTRATE WHERE REQUIRED.

13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW

PROFILE TO MATCH EXISTING. SEE SPEC. 14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.

15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR

16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.

17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

# **EXTERIOR MATERIALS LEGEND**

STONE VENEER SAWED SIDING, PAINTED LOG SIDING - MEDOW VALLEY 2 X 6 X 16' SPRUCE SMOOTH TRIM/ PANEL ASPHALT SHINGLE ARCHITECTURAL SHINGLE

CONCRETE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI

PROFESSIONAL SEAL

ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

NO. 000639



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PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

5218

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE: DATE:	
ISSUEDATE:	

PROJECT # X2319-01

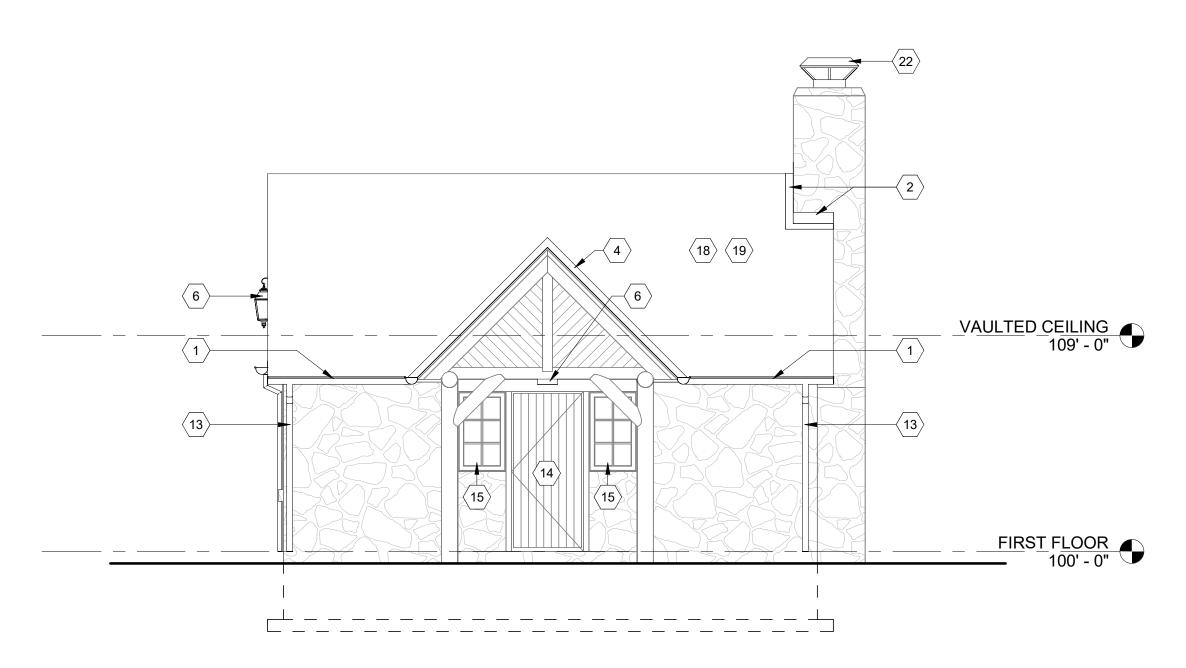
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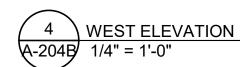
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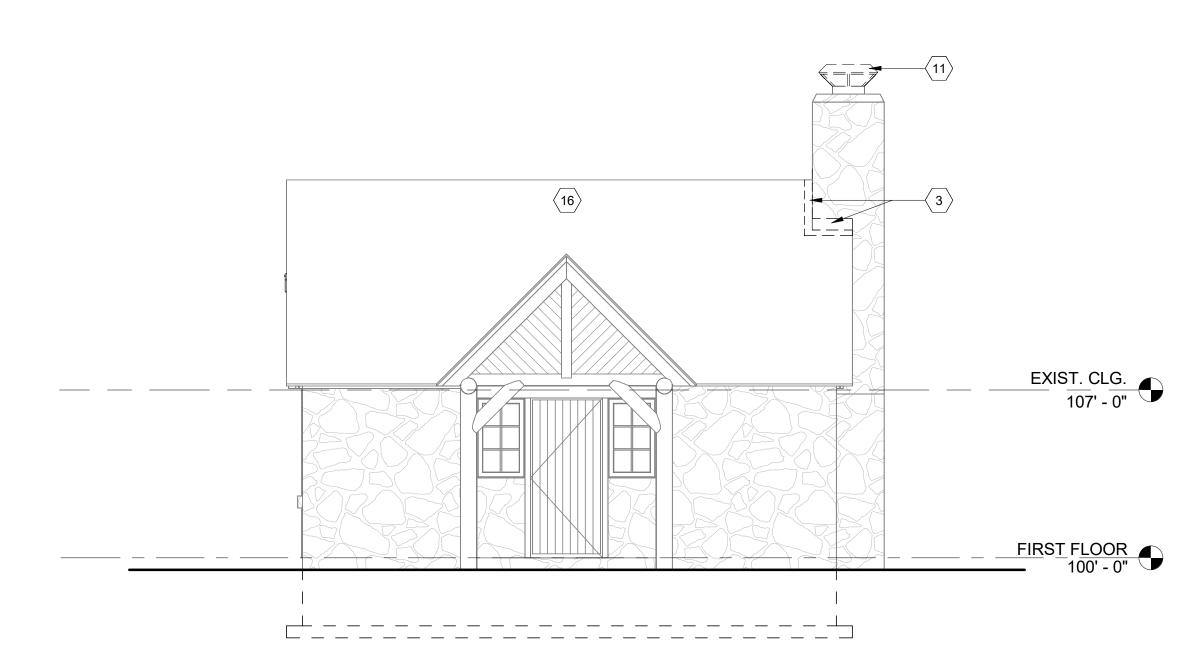
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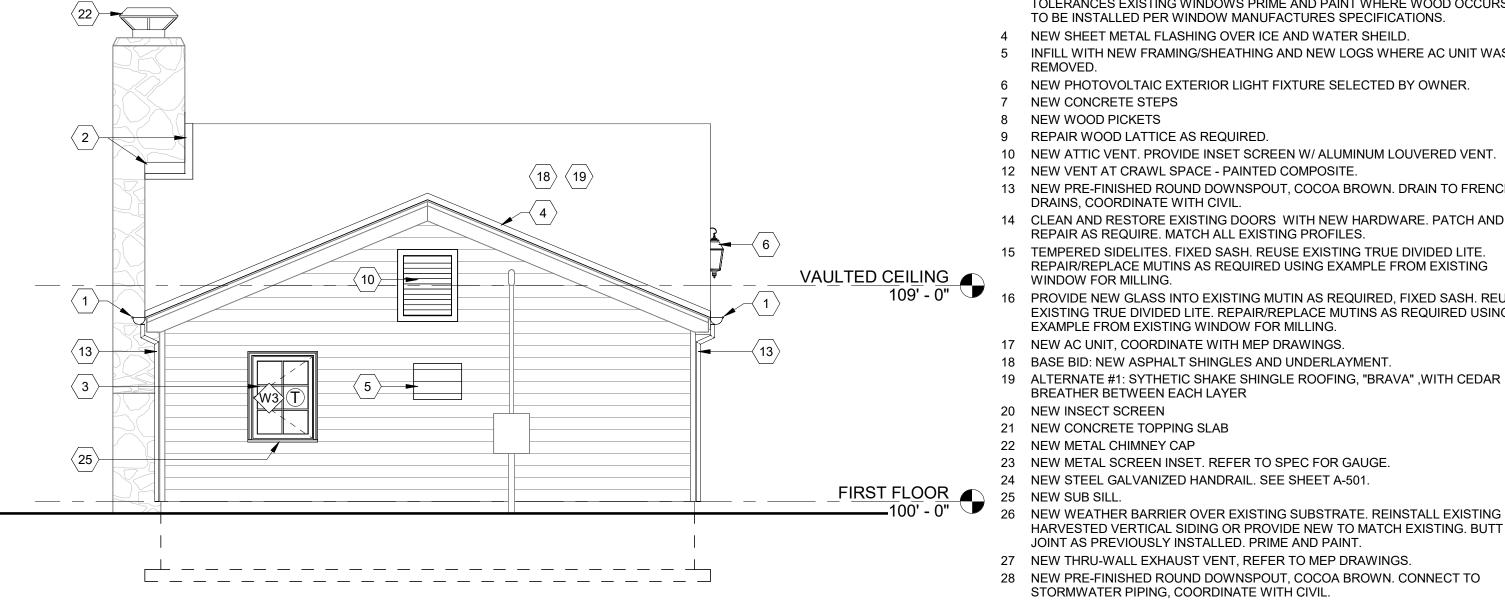
AND SOUTH

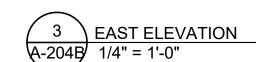


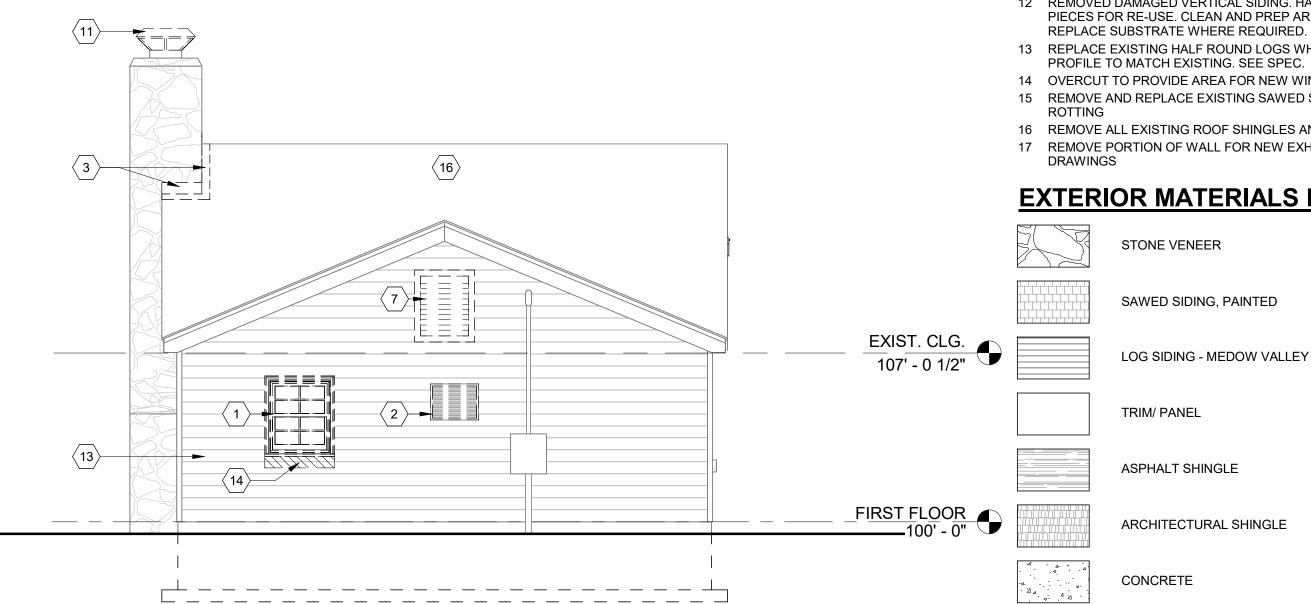












**EAST ELEVATION - DEMOLITION** A-204B/ 1/4" = 1'-0"

# **GENERAL NOTES - MASONRY RESTORATION**

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# **KEYED NOTES - EXTERIOR ELEVATIONS**

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NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD.

- INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS
- 6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.

8 NEW WOOD PICKETS

- 9 REPAIR WOOD LATTICE AS REQUIRED.
- 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.

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- REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE
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- 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO STORMWATER PIPING, COORDINATE WITH CIVIL.

## **KEYED NOTES - DEMOLITION ELEVATIONS**

REMOVE WINDOW

REMOVE EXISTING AC UNT

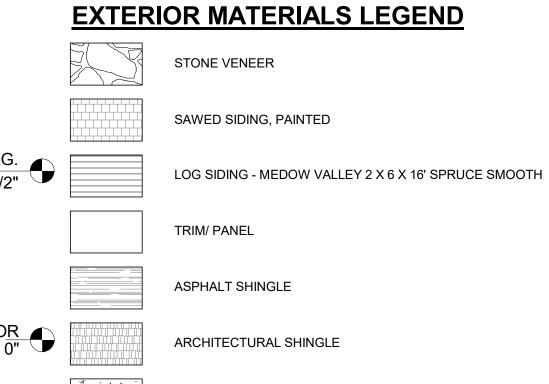
- REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.
- 4 REMOVE EXISTING EXTERIOR LIGHT FIXTURE. 5 REMOVE STONE STEP. RETAIN FOR REUSE.
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- 15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR
- 16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED. 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

# **EXTERIOR MATERIALS LEGEND**



CONCRETE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

PROFESSIONAL SEAL

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

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**DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

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**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

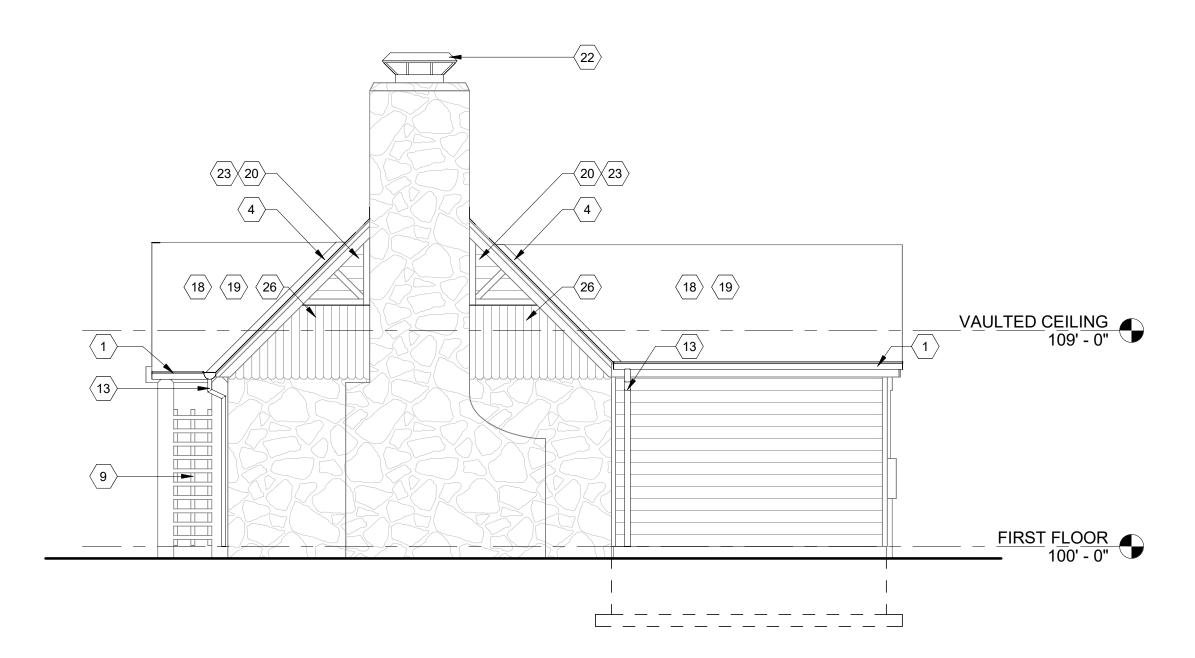
PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

PROJECT #	X2319-01
SITE#	5218
ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
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CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE: REVISION: DATE: DATE: ISSUEDATE:	
CAD DWG FILE DRAWN BY: CHECKED BY: DESIGNED BY:	: JB RW

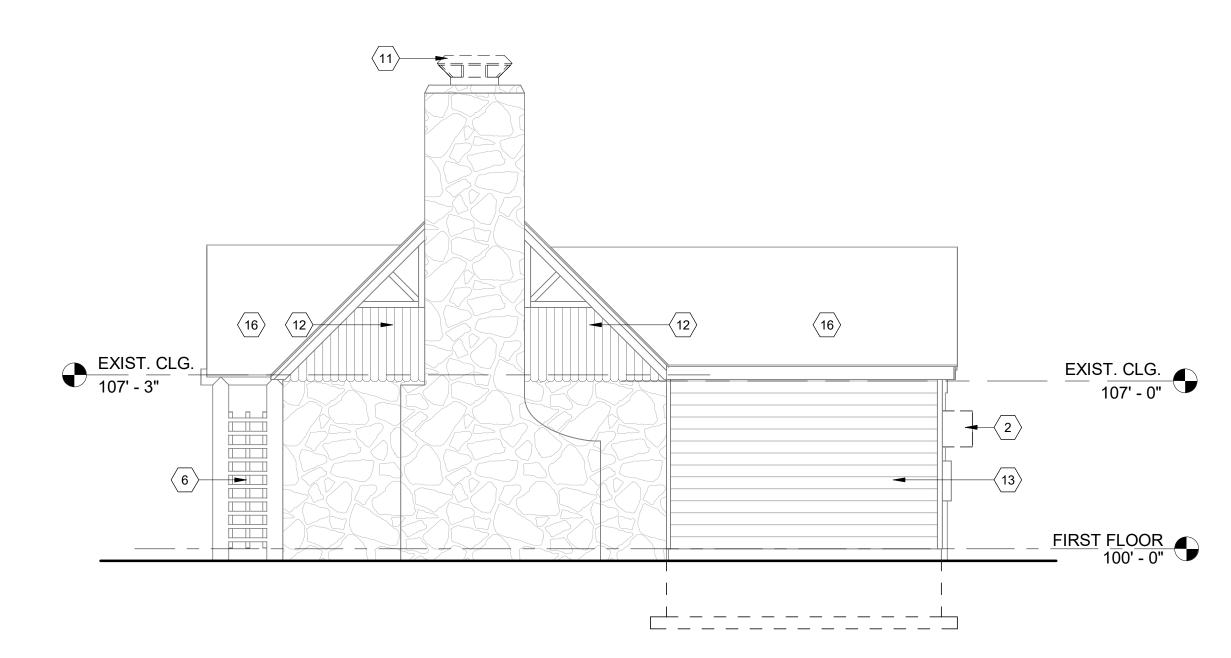
CABIN #4 - EXTERIOR **ELEVATIONS - EAST** AND WEST

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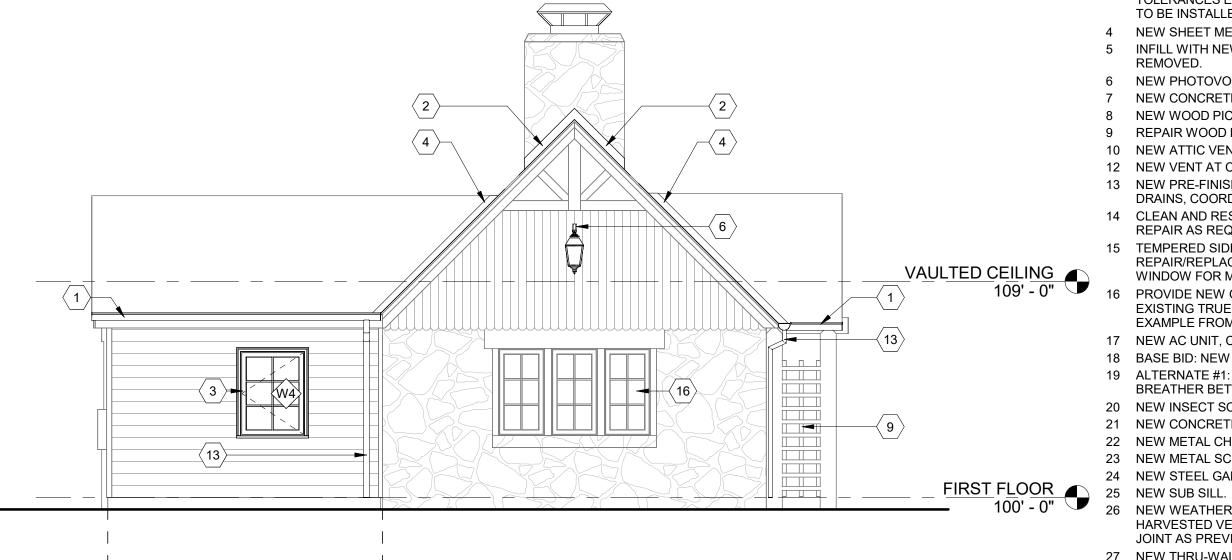
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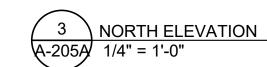


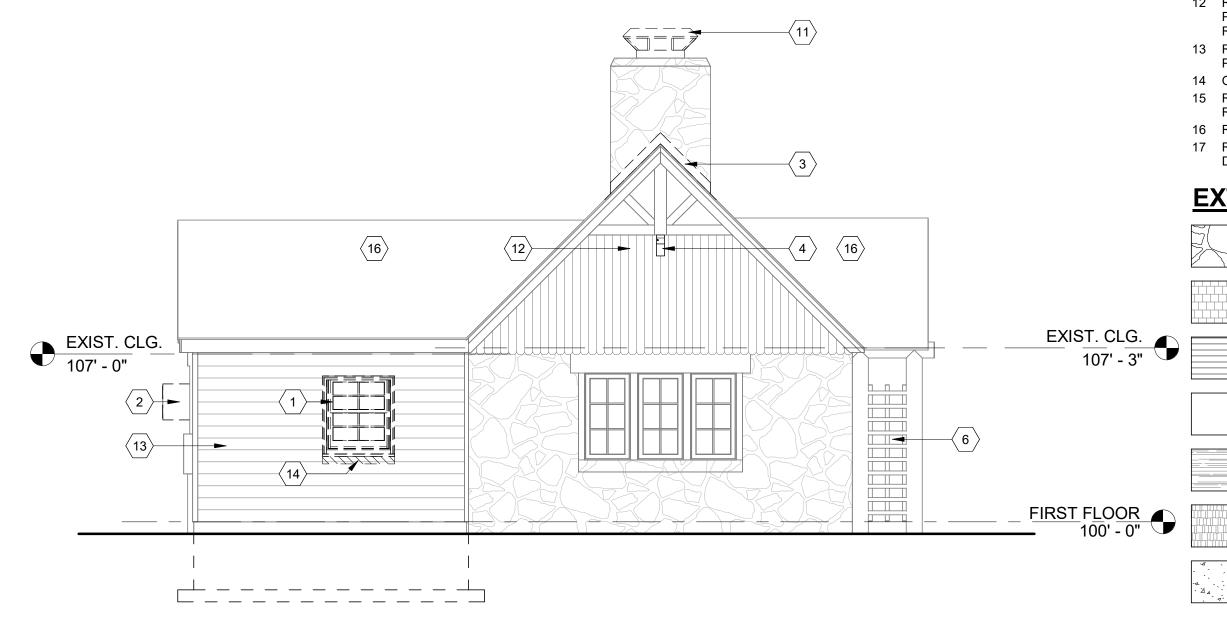












NORTH ELEVATION - DEMOLITION A-205A 1/4" = 1'-0"

## **GENERAL NOTES - MASONRY RESTORATION**

\* NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS 1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO

PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

#### **KEYED NOTES - EXTERIOR ELEVATIONS**

- NEW 6" HALF ROUND EXTENDED FLANGE GUTTER
- PRE-FINISHED METAL VALLEY FLASHING.
- NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD.
- INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS
- 6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.
- 7 NEW CONCRETE STEPS
- 8 NEW WOOD PICKETS 9 REPAIR WOOD LATTICE AS REQUIRED.
- 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.
- 12 NEW VENT AT CRAWL SPACE PAINTED COMPOSITE.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS, COORDINATE WITH CIVIL.
- 14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND
- REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES. 15 TEMPERED SIDELITES. FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING
- PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE
- EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING WINDOW FOR MILLING. 17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS.
- 18 BASE BID: NEW ASPHALT SHINGLES AND UNDERLAYMENT. 19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR

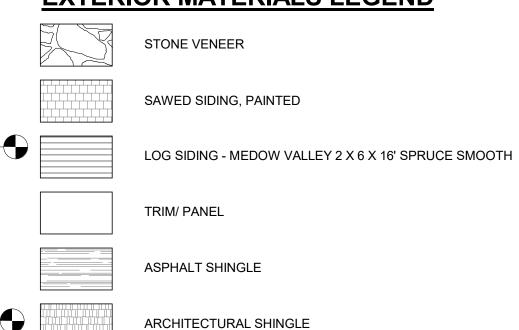
BREATHER BETWEEN EACH LAYER

- 20 NEW INSECT SCREEN 21 NEW CONCRETE TOPPING SLAB
- 22 NEW METAL CHIMNEY CAP
- 23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.
- 24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.
- NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT
- JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT. 27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS.
- 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO STORMWATER PIPING, COORDINATE WITH CIVIL.

## **KEYED NOTES - DEMOLITION ELEVATIONS**

- REMOVE WINDOW
- REMOVE EXISTING AC UNT
- REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK. 4 REMOVE EXISTING EXTERIOR LIGHT FIXTURE.
- 5 REMOVE STONE STEP. RETAIN FOR REUSE.
- 6 REMOVE DAMAGED WOOD LATTICE SECTIONS.
- 7 REMOVE EXISTING ATTIC VENT
- 8 REMOVE EXISTING GUTTER AND DOWNSPOUT
- 9 REMOVE EXISTING VENT.
- 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE
- 11 REMOVE EXISTING METAL CHIMNEY CAP
- 12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND REPLACE SUBSTRATE WHERE REQUIRED.
- 13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW PROFILE TO MATCH EXISTING. SEE SPEC.
- 14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.
- 15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR
- 16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.
- 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

## **EXTERIOR MATERIALS LEGEND**



CONCRETE

DATE: ISSUEDATE: CAD DWG FILE: DRAWN BY: CHECKED BY: **DESIGNED BY:** SHEET TITLE:

STATE OF MISSOURI

MICHAEL L. PARSON,

**GOVERNOR** 

ROBERT WILSON WAGSTAFF - ARCHITECT

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

NO. 000639

PROFESSIONAL SEAL

1

5 a

**OFFICE OF ADMINISTRATION** 

**DIVISION OF FACILITIES** MANAGEMENT,

DESIGN AND CONSCTRUCTION

**DEPARTMENT OF NATURAL** 

RESOURCES DIVISION OF

STATE PARKS

PROJECT TITLE

RENOVATE CABINS 1-4, 14, & 19

SAM A. BAKER STATE PARK

SAM A. BAKER STATE PARK

5580 STATE HIGHWAY 143

PATTERSON, MO 63956

5218

7815218008

7815218007

7815218022

7815218005

7815218003

7815218019

PROJECT # X2319-01

SITE#

ASSET#

CABIN #1:

CABIN #2:

CABIN #3:

CABIN #4:

CABIN #14:

CABIN #19:

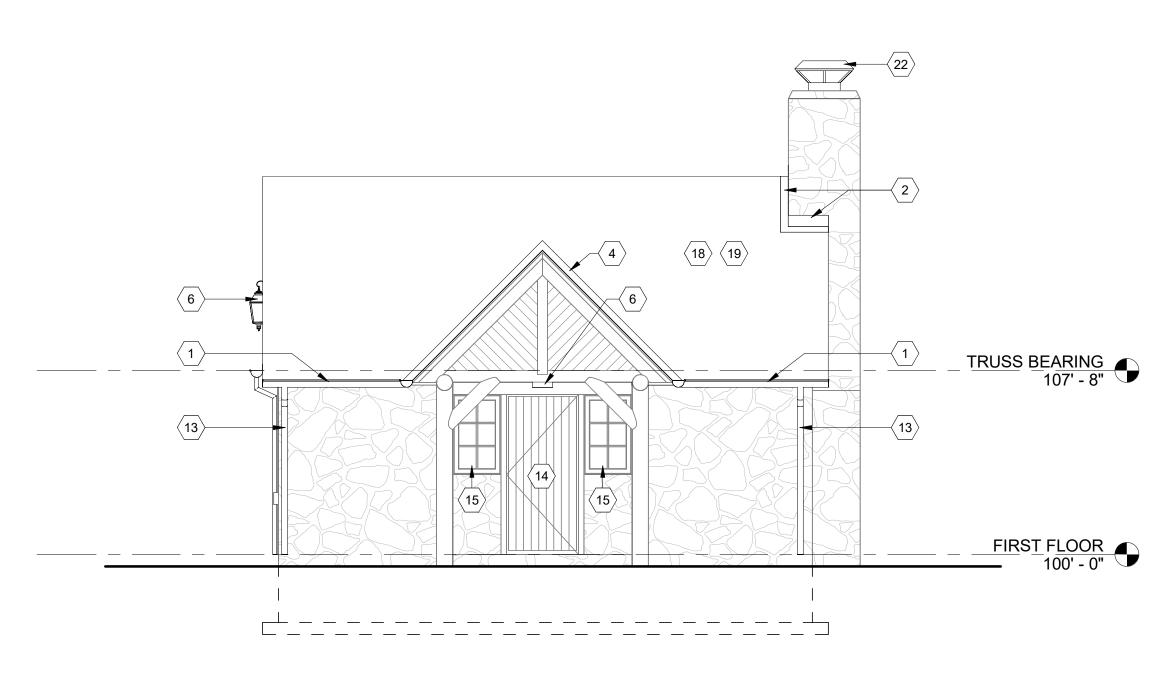
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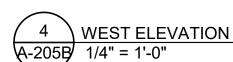
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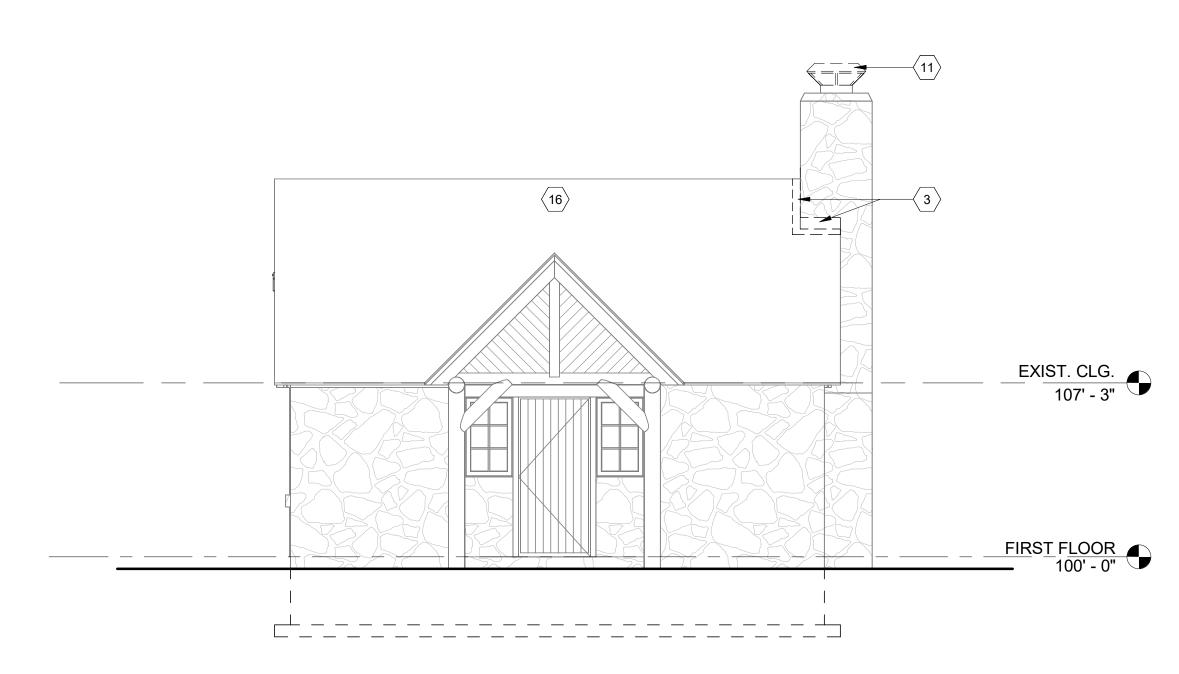
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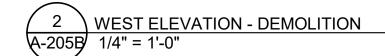
CABIN #14 - EXTERIOR ELEVATIONS - NORTH AND SOUTH

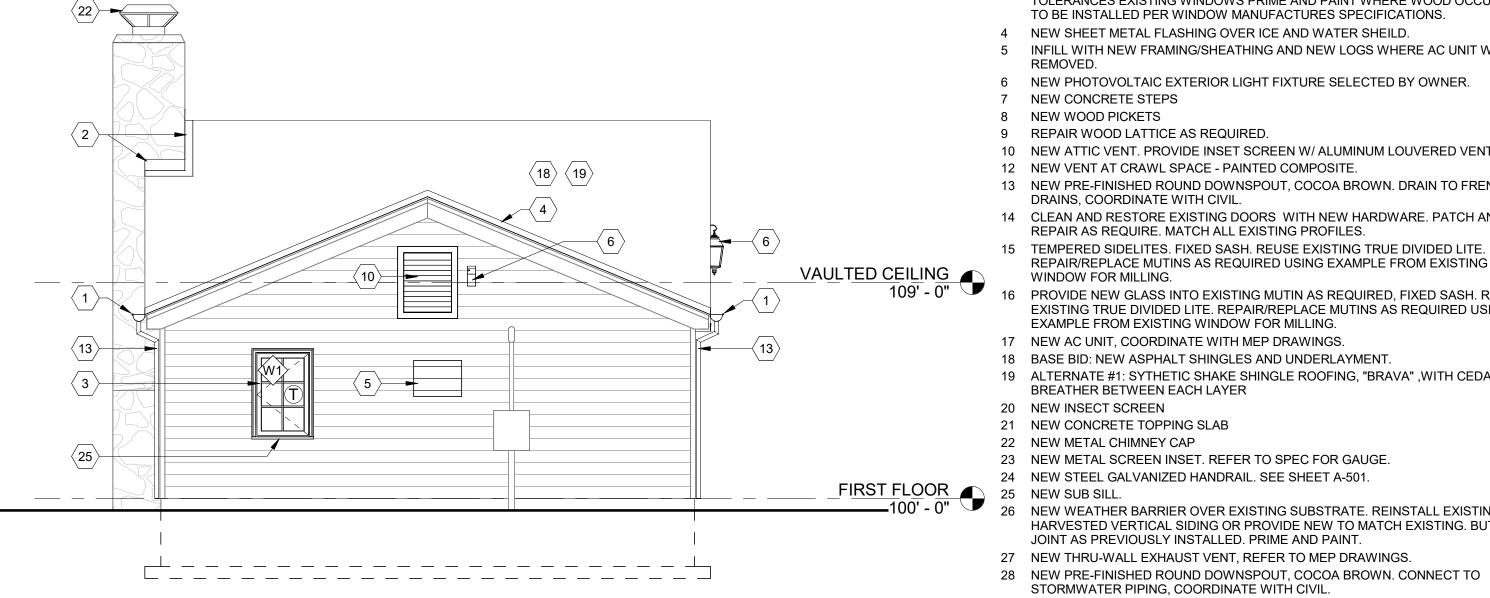
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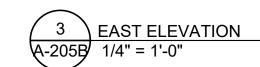


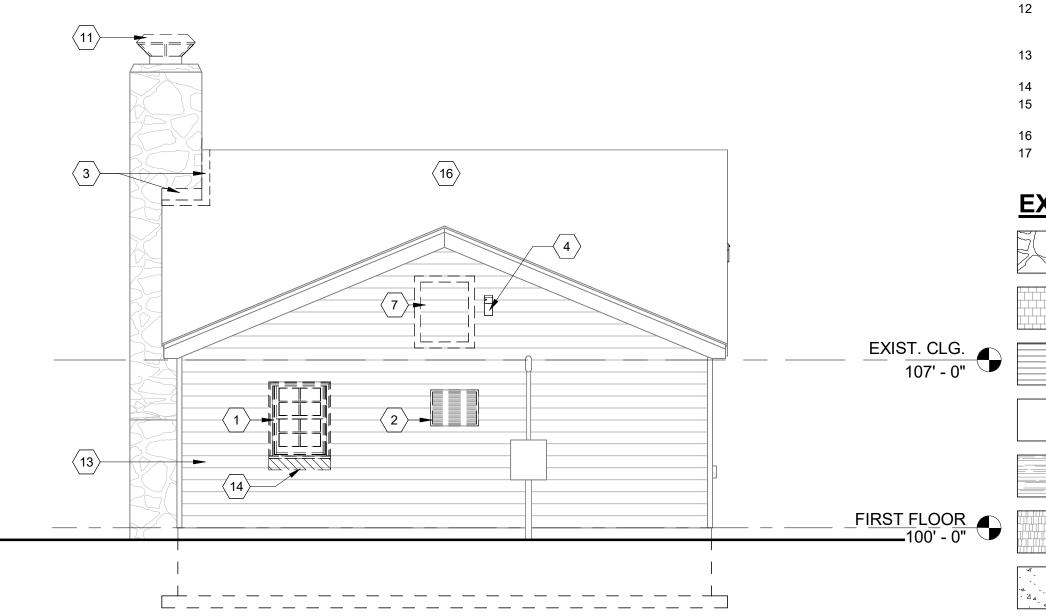














## **GENERAL NOTES - MASONRY RESTORATION**

\* NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS 1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

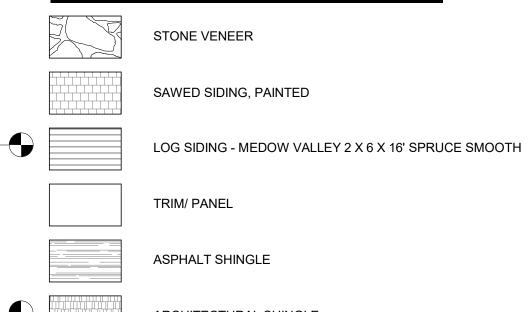
## **KEYED NOTES - EXTERIOR ELEVATIONS**

- NEW 6" HALF ROUND EXTENDED FLANGE GUTTER PRE-FINISHED METAL VALLEY FLASHING.
- NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD.
- INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS
- 6 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.
- 8 NEW WOOD PICKETS
- 9 REPAIR WOOD LATTICE AS REQUIRED.
- 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.
- 12 NEW VENT AT CRAWL SPACE PAINTED COMPOSITE.
- 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH
- DRAINS, COORDINATE WITH CIVIL. 14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND
- REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.
- REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE
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- 18 BASE BID: NEW ASPHALT SHINGLES AND UNDERLAYMENT. 19 ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR
- BREATHER BETWEEN EACH LAYER
- 20 NEW INSECT SCREEN
- 21 NEW CONCRETE TOPPING SLAB 22 NEW METAL CHIMNEY CAP
- 23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.
- 24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.
- NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT
- JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT. 27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS.
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#### **KEYED NOTES - DEMOLITION ELEVATIONS**

- REMOVE WINDOW
- REMOVE EXISTING AC UNT
- REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.
- 4 REMOVE EXISTING EXTERIOR LIGHT FIXTURE. 5 REMOVE STONE STEP. RETAIN FOR REUSE.
- 6 REMOVE DAMAGED WOOD LATTICE SECTIONS.
- 7 REMOVE EXISTING ATTIC VENT
- 8 REMOVE EXISTING GUTTER AND DOWNSPOUT
- 9 REMOVE EXISTING VENT.
- 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE
- 11 REMOVE EXISTING METAL CHIMNEY CAP 12 REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN
- PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND
- REPLACE SUBSTRATE WHERE REQUIRED. 13 REPLACE EXISTING HALF ROUND LOGS WHERE DAMAGED OR ROTTING. NEW
- PROFILE TO MATCH EXISTING. SEE SPEC. 14 OVERCUT TO PROVIDE AREA FOR NEW WINDOW.
- 15 REMOVE AND REPLACE EXISTING SAWED SHAKE SIDING WHERE DAMAGED OR
- 16 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT. AS REQUIRED.
- 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

#### **EXTERIOR MATERIALS LEGEND**



ARCHITECTURAL SHINGLE

CONCRETE

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

PROFESSIONAL SEAL

NO. 000639

STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE



**DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

**OFFICE OF ADMINISTRATION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

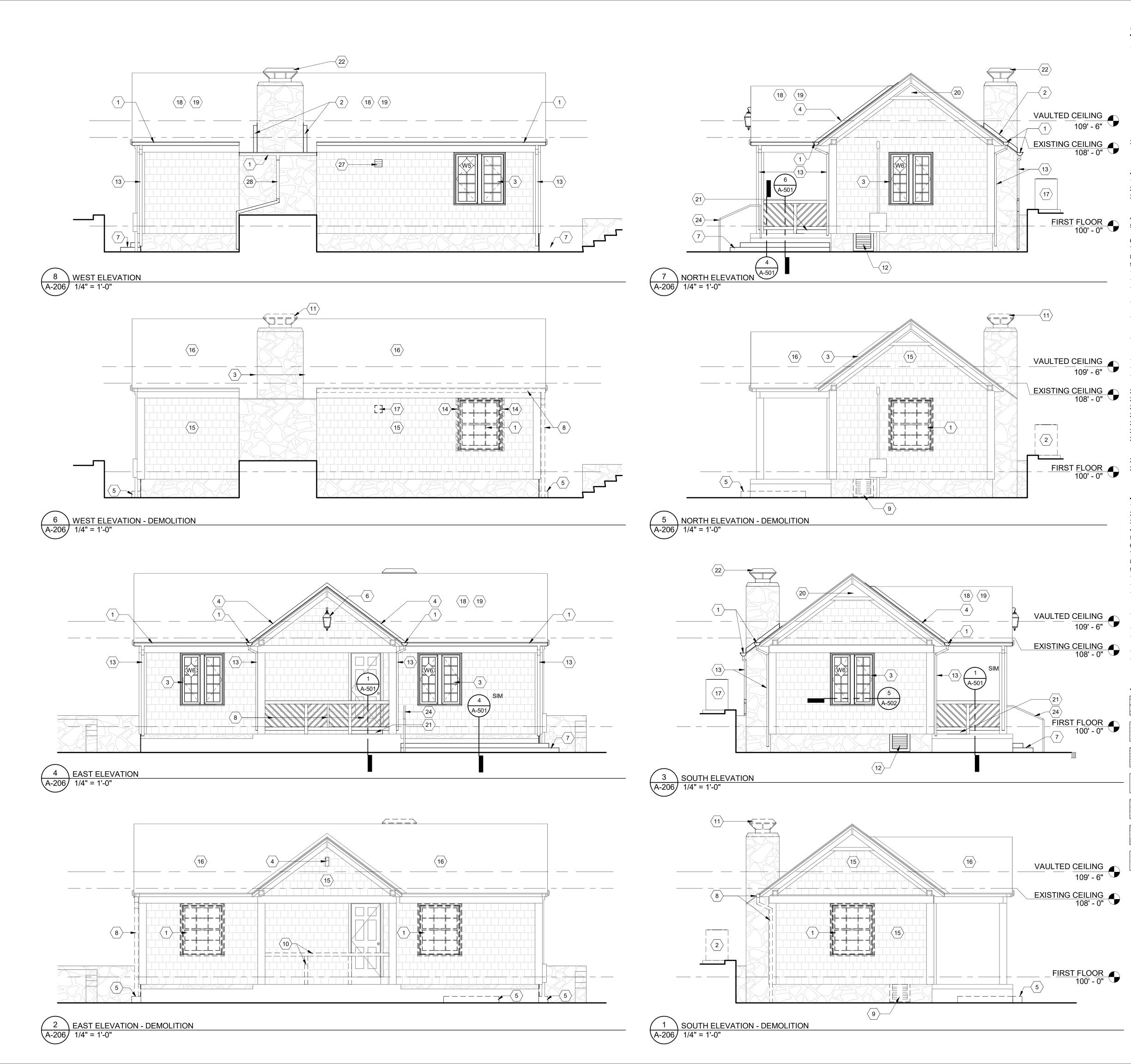
SITE# 5218 ASSET# CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005 CABIN #14: 7815218003 CABIN #19: 7815218019 **REVISION:** DATE: **REVISION:** DATE: REVISION: DATE: ISSUEDATE: CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

PROJECT # X2319-01

SHEET TITLE:

CABIN #14 - EXTERIOR **ELEVATIONS - EAST** AND WEST

SHEET NUMBER:



## **GENERAL NOTES - MASONRY RESTORATION**

1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING

## **KEYED NOTES - EXTERIOR ELEVATIONS**

CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY

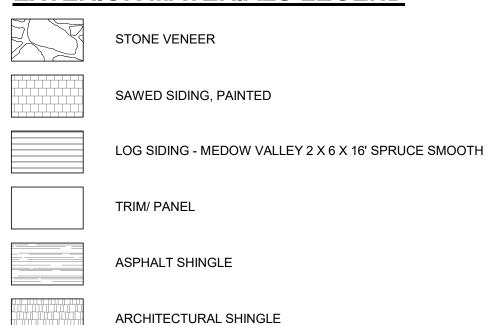
NEW 6" HALF ROUND EXTENDED FLANGE GUTTER

- PRE-FINISHED METAL VALLEY FLASHING. NEW WINDOW IN OPENING -NEW WINDOW TO REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS -TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS.
- NEW SHEET METAL FLASHING OVER ICE AND WATER SHEILD. INFILL WITH NEW FRAMING/SHEATHING AND NEW LOGS WHERE AC UNIT WAS
- NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER. 7 NEW CONCRETE STEPS
- 8 NEW WOOD PICKETS
- 9 REPAIR WOOD LATTICE AS REQUIRED.
- 10 NEW ATTIC VENT. PROVIDE INSET SCREEN W/ ALUMINUM LOUVERED VENT.
- 12 NEW VENT AT CRAWL SPACE PAINTED COMPOSITE. 13 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. DRAIN TO FRENCH
- DRAINS, COORDINATE WITH CIVIL.
- 14 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE. PATCH AND REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.
- 15 TEMPERED SIDELITES. FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING
- 16 PROVIDE NEW GLASS INTO EXISTING MUTIN AS REQUIRED, FIXED SASH. REUSE EXISTING TRUE DIVIDED LITE. REPAIR/REPLACE MUTINS AS REQUIRED USING EXAMPLE FROM EXISTING WINDOW FOR MILLING.
- 17 NEW AC UNIT, COORDINATE WITH MEP DRAWINGS.
- 18 BASE BID: NEW ASPHALT SHINGLES AND UNDERLAYMENT. ALTERNATE #1: SYTHETIC SHAKE SHINGLE ROOFING, "BRAVA", WITH CEDAR
- BREATHER BETWEEN EACH LAYER 20 NEW INSECT SCREEN
- 21 NEW CONCRETE TOPPING SLAB
- 22 NEW METAL CHIMNEY CAP 23 NEW METAL SCREEN INSET. REFER TO SPEC FOR GAUGE.
- 24 NEW STEEL GALVANIZED HANDRAIL. SEE SHEET A-501.
- 25 NEW SUB SILL.
- 26 NEW WEATHER BARRIER OVER EXISTING SUBSTRATE. REINSTALL EXISTING
- HARVESTED VERTICAL SIDING OR PROVIDE NEW TO MATCH EXISTING. BUTT JOINT AS PREVIOUSLY INSTALLED. PRIME AND PAINT.
- 27 NEW THRU-WALL EXHAUST VENT, REFER TO MEP DRAWINGS.
- FIRST FLOOR 100' 0" 28 NEW PRE-FINISHED ROUND DOWNSPOUT, COCOA BROWN. CONNECT TO STORMWATER PIPING, COORDINATE WITH CIVIL.

#### **KEYED NOTES - DEMOLITION ELEVATIONS**

- REMOVE WINDOW
- REMOVE EXISTING AC UNT
- REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK. REMOVE EXISTING EXTERIOR LIGHT FIXTURE.
- REMOVE STONE STEP. RETAIN FOR REUSE.
- 6 REMOVE DAMAGED WOOD LATTICE SECTIONS. 7 REMOVE EXISTING ATTIC VENT
- REMOVE EXISTING GUTTER AND DOWNSPOUT
- REMOVE EXISTING VENT.
- 10 REMOVE EXISTING WOOD RAILING AND POSTS. RETAIL FOR REUSE
- REMOVE EXISTING METAL CHIMNEY CAP
- REMOVED DAMAGED VERTICAL SIDING. HARVEST EXISTING WOOD AND RETAIN PIECES FOR RE-USE. CLEAN AND PREP AREA FOR NEW WORK REPAIR AND
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- 17 REMOVE PORTION OF WALL FOR NEW EXHAUST VENT. REFER TO MEP

#### **EXTERIOR MATERIALS LEGEND**



CONCRETE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

PROFESSIONAL SEAL

NO. 000639



**DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSCTRUCTION** 

**OFFICE OF ADMINISTRATION** 

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

PATTERSON, MO 63956

5218

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION:	
REVISION:	
REVISION: —	
DATE:	

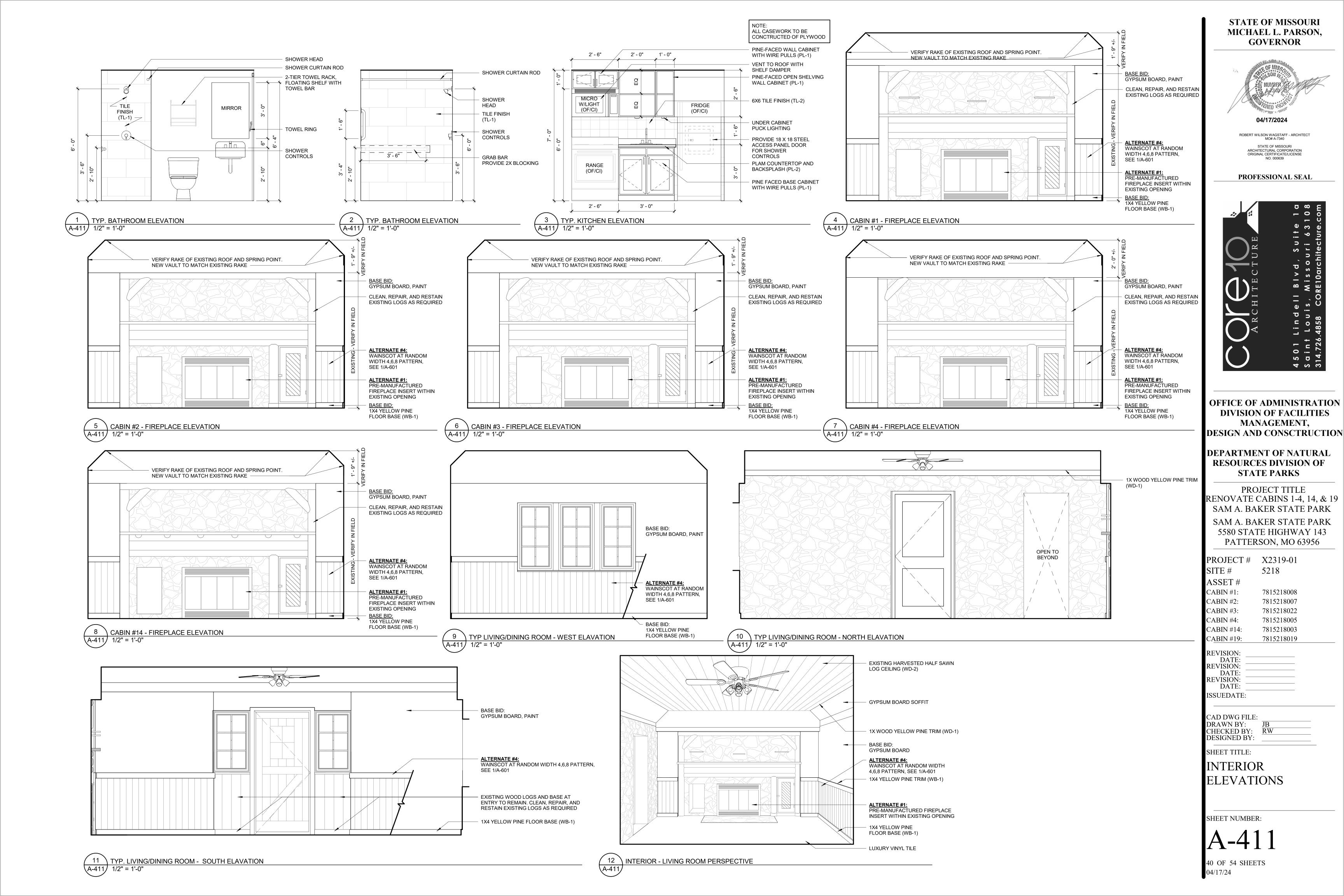
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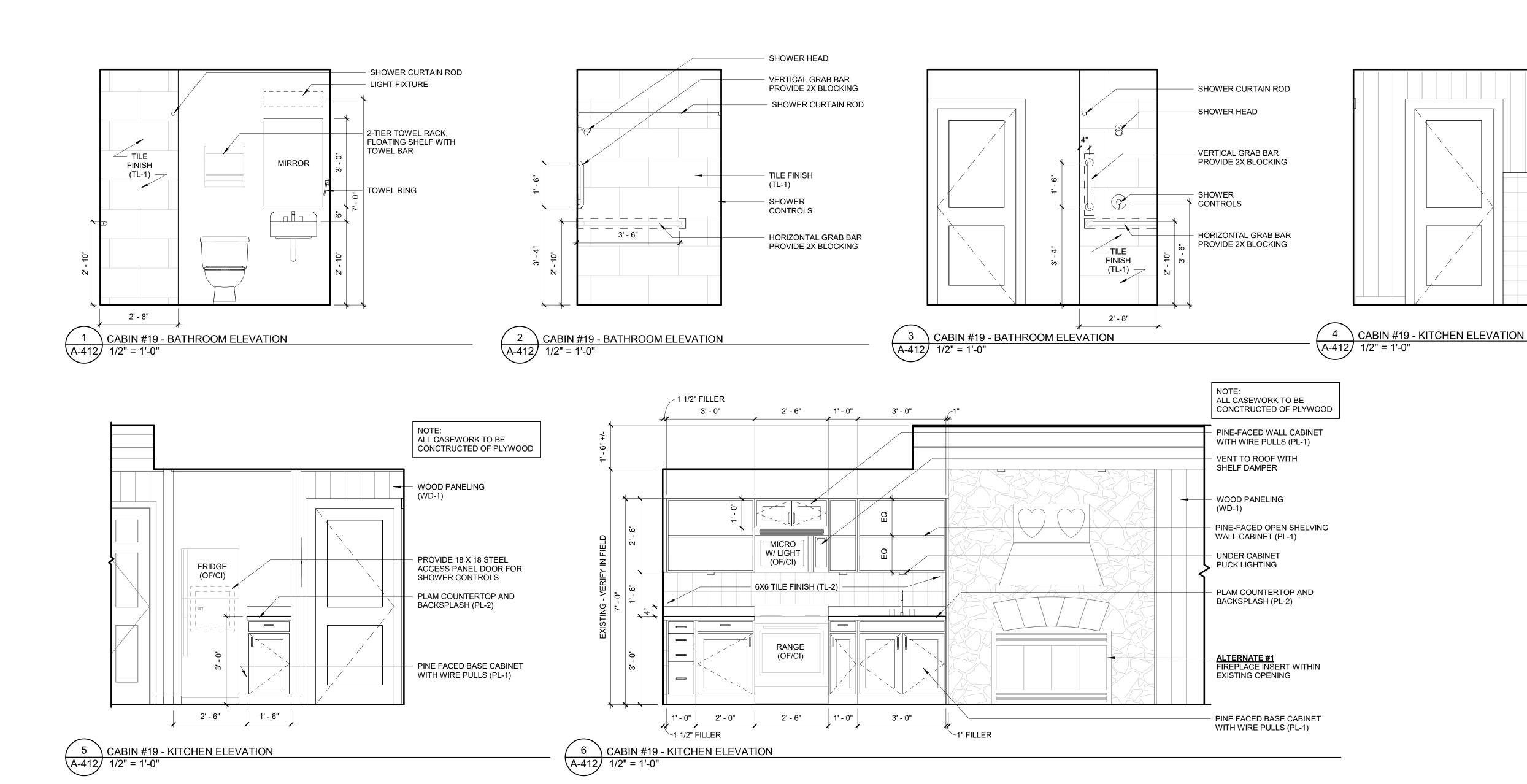
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SHEET TITLE: CABIN #19 - EXTERIOR **ELEVATIONS** 

SHEET NUMBER:

ISSUEDATE:





#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

WOOD PANELING (WD-1)

6X6 TILE FINISH (TL-2)

**UNDER CABINET** 

PUCK LIGHTING



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

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

PROJECT TITLE
RENOVATE CABINS 1-4, 14, & 19
SAM A. BAKER STATE PARK
SAM A. BAKER STATE PARK
5580 STATE HIGHWAY 143
PATTERSON, MO 63956

7815218003

PROJECT # X2319-01 SITE # 5218 ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005

CABIN #19: 7815218019

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

ISSUEDATE:

CABIN #14:

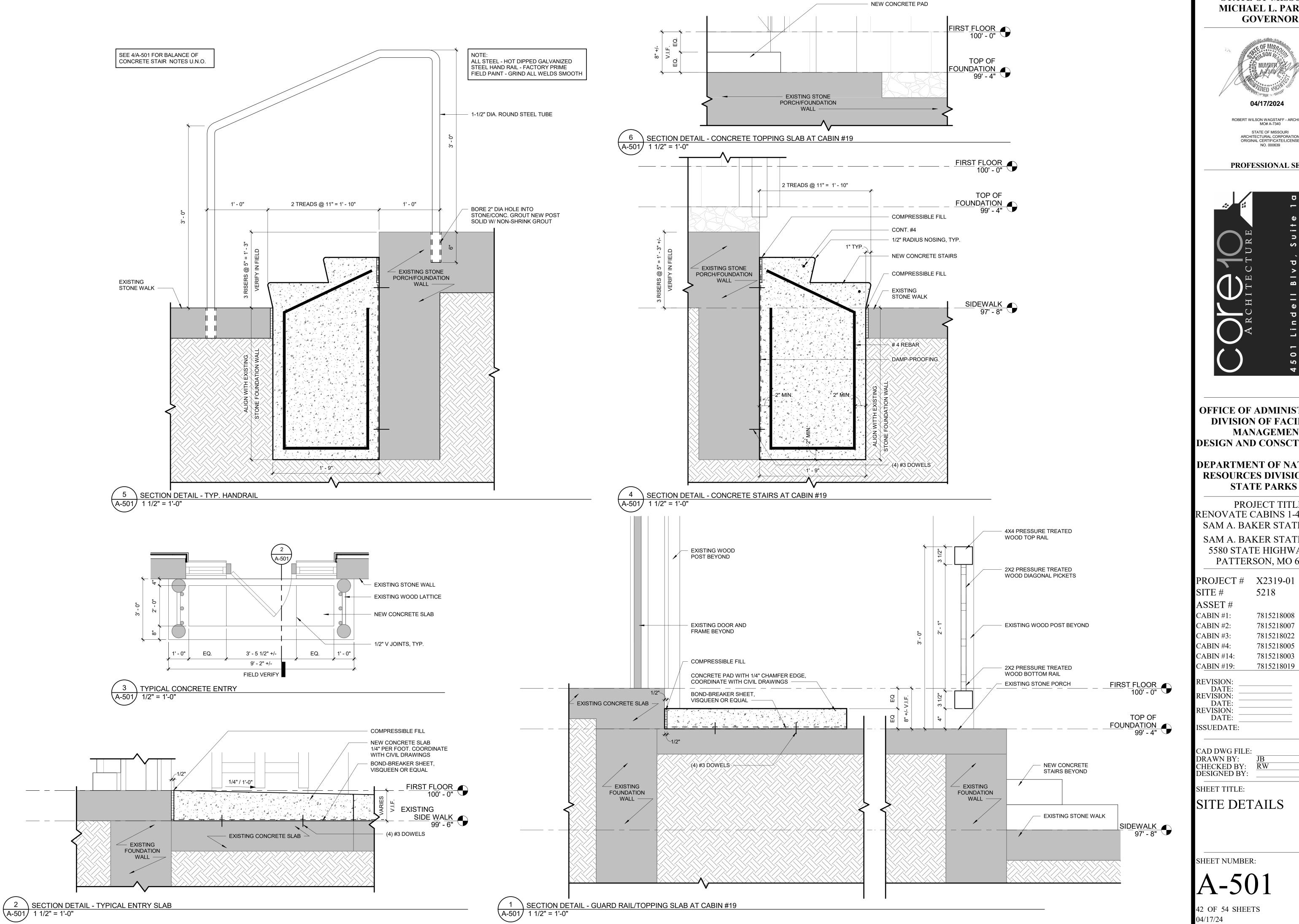
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SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NUMBER:

A-412



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF

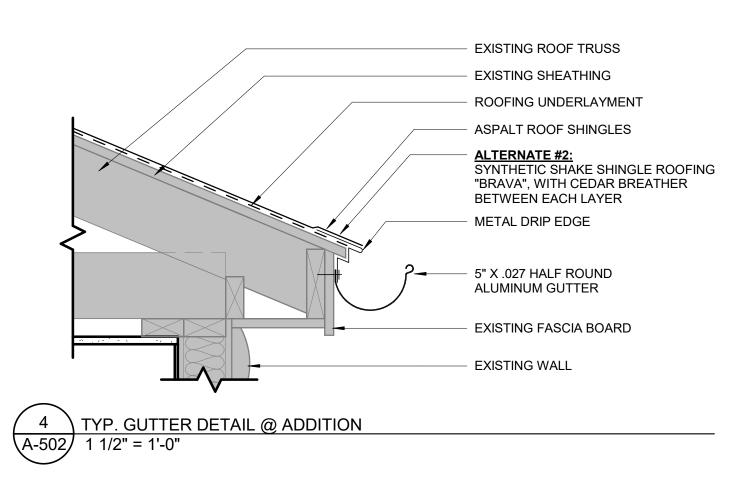
PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

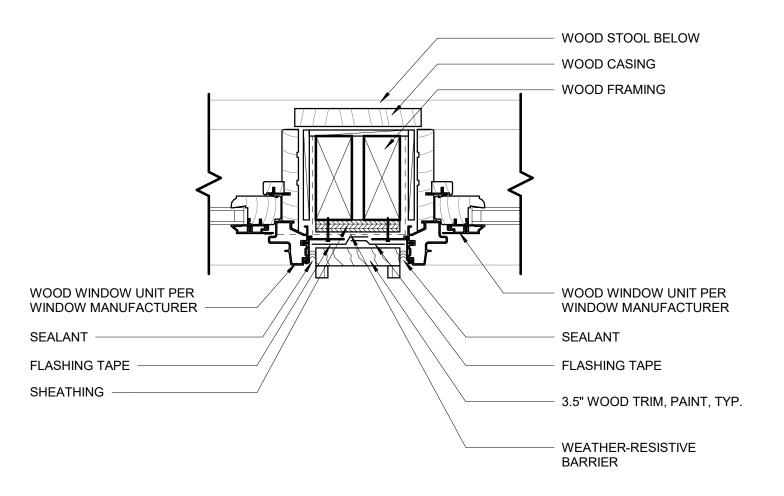
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7815218019

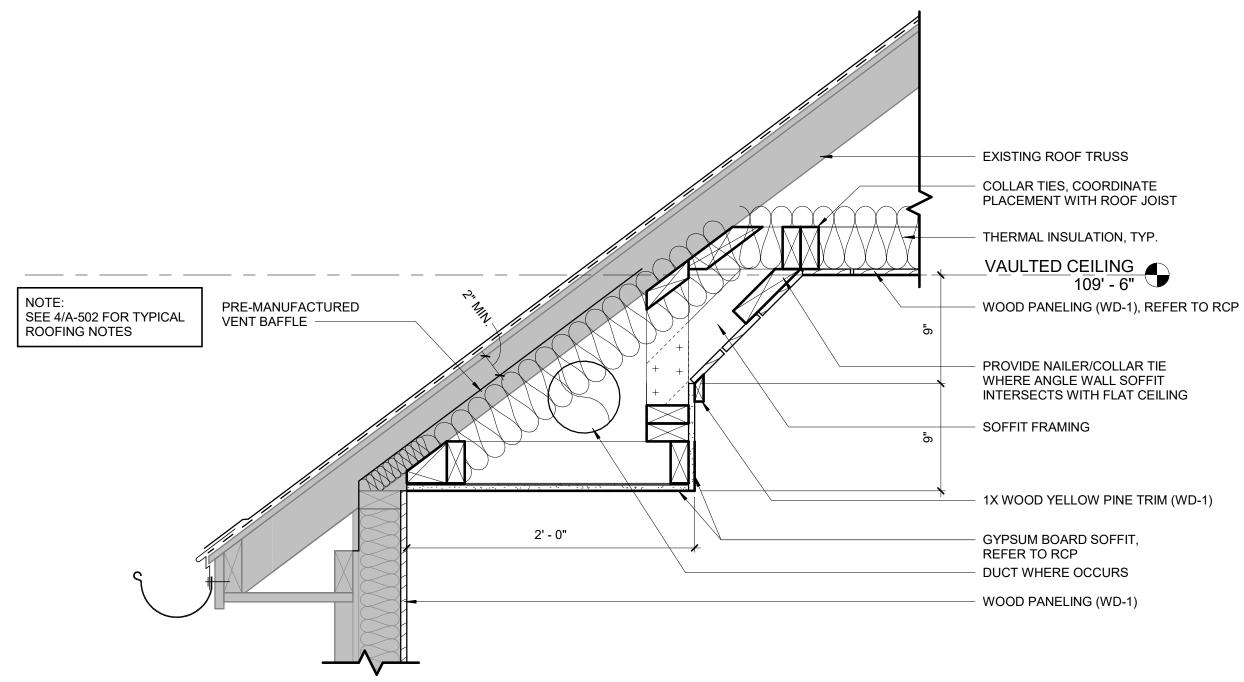
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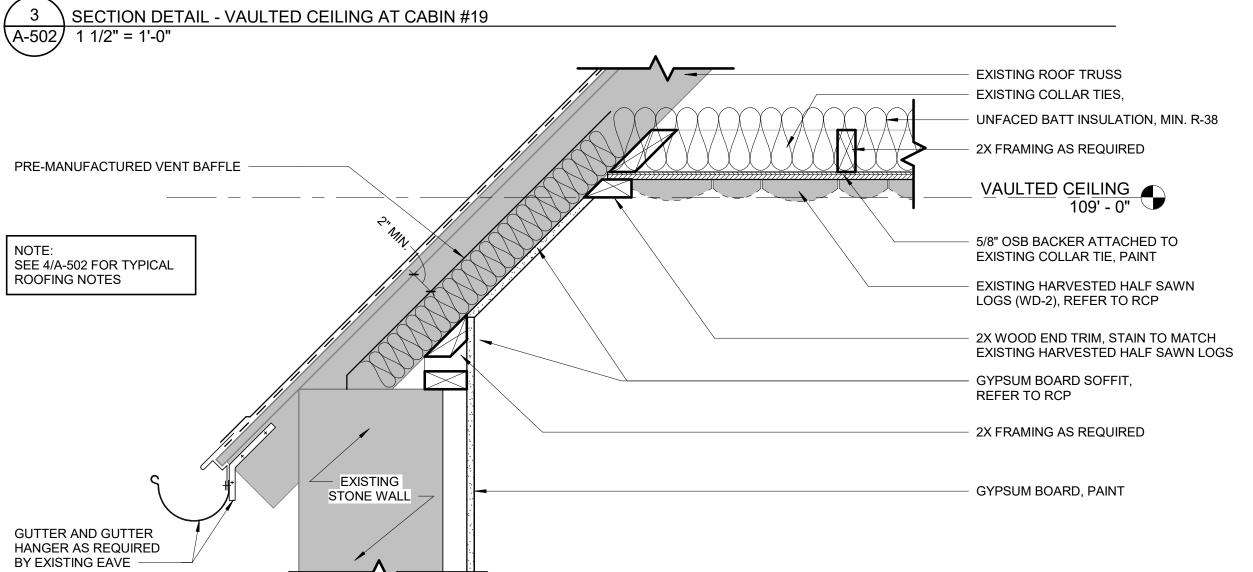
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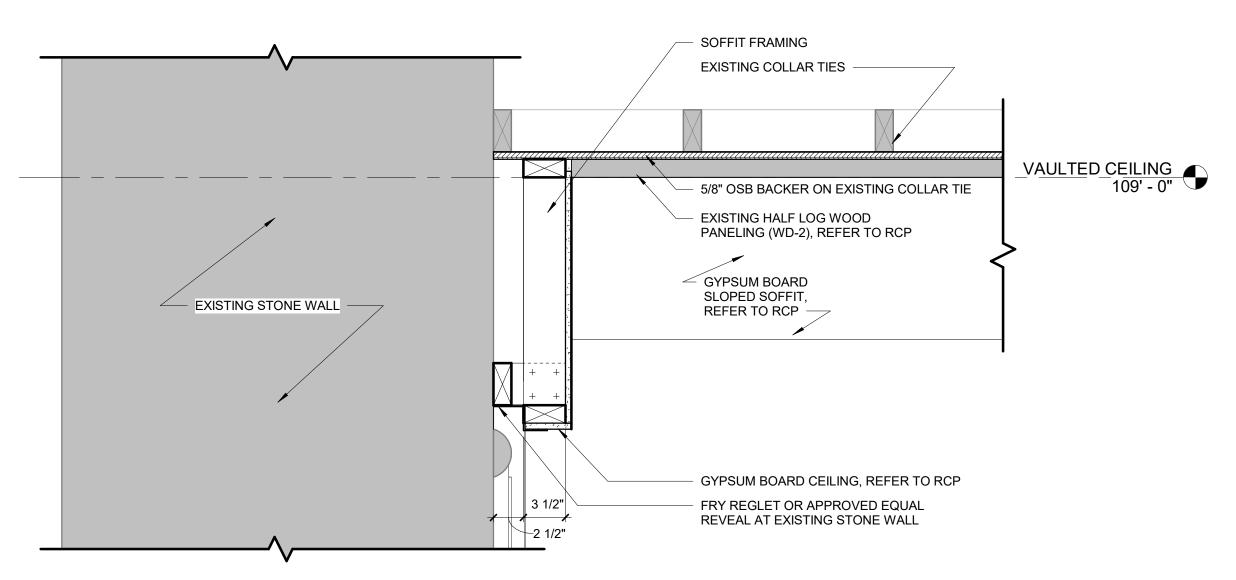




5 SECTION DETAIL - TYPICAL VERTICAL MULLION 3" = 1'-0"



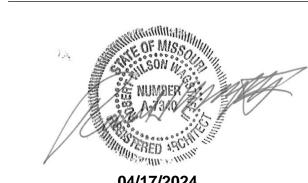




1 SECTION DETAIL - TYPICAL VAULTED CEILING END WALL
A-502 1 1/2" = 1'-0"

2 SECTION DETAIL - TYP. VAULTED CEILING
A-502 1 1/2" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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PATTERSON, MO 63956

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PROJECT # X2319-01

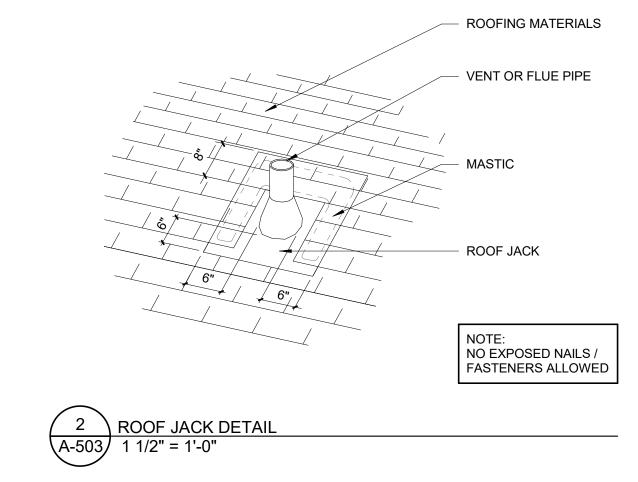
	ASSET#	
	CABIN #1:	7815218008
•	CABIN #2:	7815218007
	CABIN #3:	7815218022
	CABIN #4:	7815218005
	CABIN #14:	7815218003
	CABIN #19:	7815218019
	REVISION: DATE: REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE:	
	CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:	JB RW
	CHEET TITLE.	

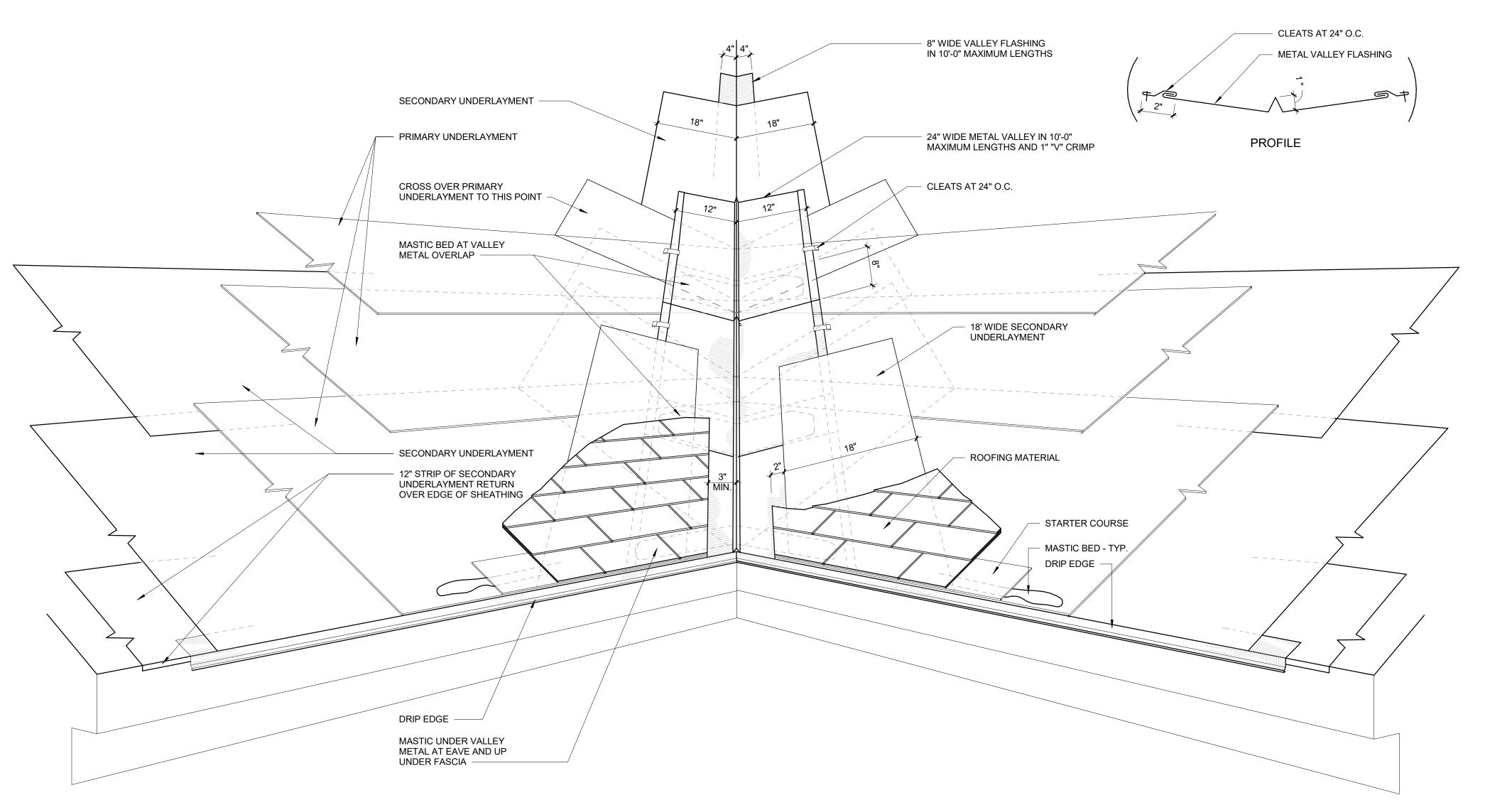
EXTERIOR DETAILS

SHEET NUMBER:

**A-JUZ**43 OF 54 SHEETS

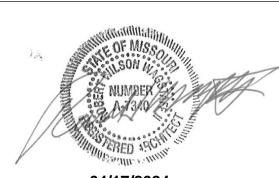
04/17/24





A-503 1 1/2" = 1'-0"

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

PROFESSIONAL SEAL

NO. 000639



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
RENOVATE CABINS 1-4, 14, & 19
SAM A. BAKER STATE PARK
SAM A. BAKER STATE PARK
5580 STATE HIGHWAY 143
PATTERSON, MO 63956

PROJECT # X2319-01 SITE # 5218 ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 CABIN #3: 7815218022 CABIN #4: 7815218005

7815218003

CABIN #19: 7815218019

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE:

CABIN #14:

CAD DWG FILE:
DRAWN BY:
CHECKED BY:

RW

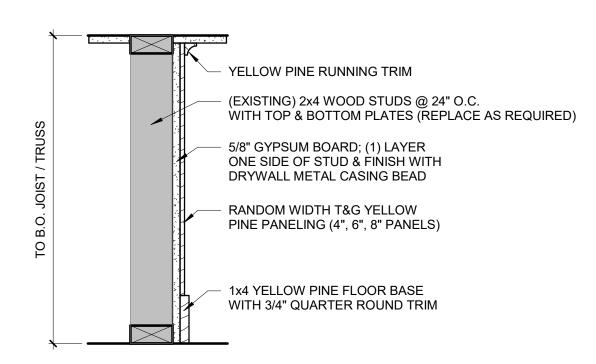
CHECKED BY: RW
DESIGNED BY:

SHEET TITLE:

EXTERIOR DETAILS

SHEET NUMBER:

A-503

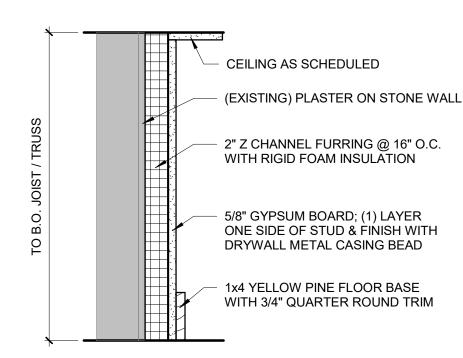


DOOR

NO.

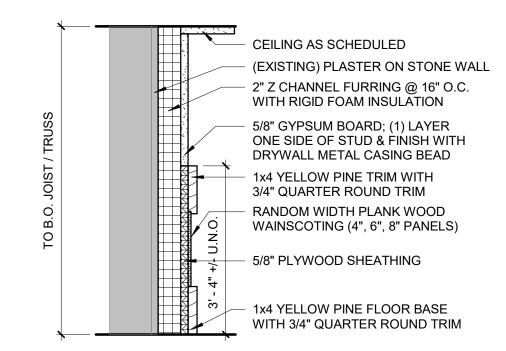
#### P1 - TYPICAL WALL

NOT RATED



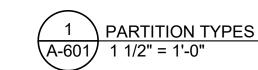
#### P2 - TYPICAL WALL

NOT RATED



## P3 - ALTERNATE #4

NOT RATED



## **PARTITION SCHEDULE NOTES:**

- ALL PARTITIONS TYPE 'P1 TYPICAL WALL', UNLESS OTHERWISE NOTED ON FLOOR PLANS.
   PRESSURE-TREATED BOTTOM PLATES AT PARTITIONS IN DIRECT CONTACT WITH
- CONCRETE OR MASONRY. GYPSUM BOARD AT ALL WET LOCATIONS SHALL BE MOLD- AND MILDEW-RESISTANT.
- PROVIDE CEMENTITIOUS BACKER BOARD AT SHOWER AND TUB TILE WALLS. SEE 'REFLECTED CEILING PLANS' SHEETS FOR ADJACENT CEILING HEIGHTS.

С	OUNT	TYPE	FINISH	WIDTH (DW)	HEIGHT (DH)	THICKNESS	TYPE	FINISH	HEAD	JAMB	SILL	HDW GROUP	NOTES		REV
5		WD-1	PNT	3' - 0"	6' - 8"	1 3/4"	WD-1	PNT	2/A-601	2/A-601	-				
7		WD-1	PNT	2' - 8"	6' - 8"	1 3/4"	WD-1	PNT	2/A-601	2/A-601	-				
		_	VARIES (SEE PLAN)	/ (SEE	BLE 2x HEADER, T STRUCTURAL FO MPTIONS)				VIDTH SCHED.		WIDTH E SCHED.		VIDTH SCHED.	WID 4" SEE SC	

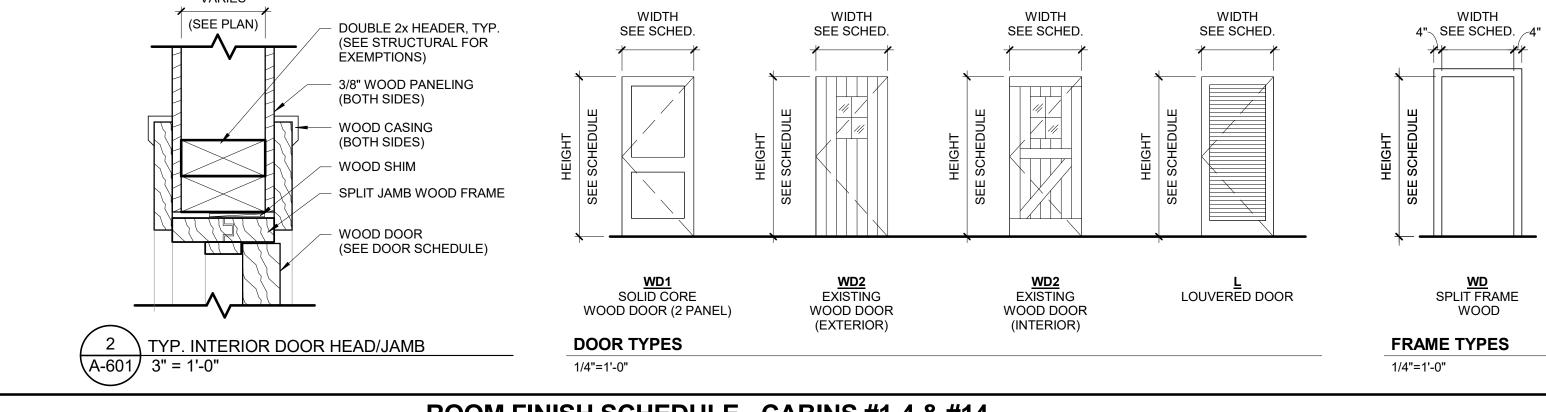
**FRAMES** 

PERIMETER DETAILS

DOOR SCHEDULE

DOOR

SIZE



ROOM FINISH SCHEDULE - CABINS #1-4 & #14										
O WALL						CEILING		S		
ON I			NORTH	EAST	SOUTH	WEST				
ROOM	ROOM NAME	FLOOR FINISH	FINISH/COLOR	FINISH/COLOR	FINISH/COLOR	FINISH/COLOR	WALL BASE FINISH	FINISH	NOTES	REVIS
FIRST	FLOOR									
101	LIVING / DINING ROOM	LVT	PNT / STONE	PNT / STONE	PNT	PNT	WB-1	WD-2 / PNT		
102	BEDROOM	LVT	WD-1	WD-1	STONE	WD-1	WB-1	PNT		
103	BATHROOM	TL-2	PNT/ TL-1	PNT / TL-1	PNT/ TL-1	PNT / TL-1	TL	PNT		
104	KITCHEN	LVT	PNT	PNT	PNT	PNT	WB-1	PNT		

ROOM FINISH SCHEDULE - CABINS #19										
O WALL CEILIN							CEILING	CEILING		
NO.			NORTH	EAST	SOUTH	WEST				
ROOM	ROOM NAME	FLOOR FINISH		FINISH/COLOR FINIS	FINISH/COLOR	FINISH/COLOR	WALL BASE FINISH	FINISH	NOTES	REVIS
IRST	FLOOR									
101	LIVING / DINING ROOM	LVT	WD-1 / STONE	WD-1	WD-1	WD-1	WD-1	PNT/WD-1		
102	KITCHEN	LVT	WD-1 / TL-2	WD-1	WD-1	WD-1	WB-1	PNT		
104	BATHROOM	TL-2	TL-1	PNT / TL-1	PNT / TL-1	PNT / TL-1	TL-2	PNT		
105	BEDROOM	LVT	WD-1	WD-1	WD-1	WD-1	WB-1	PNT		

FINISH LEGEND					
ABBREVIATION	DESCRIPTION				
LVT	LUXURY VINYL TILE				
PNT	PAINT (EGGSHELL)				
STONE	EXISTING STONE				
TL-1	12 X 18 CERAMIC TILE				
TL-2	6X6 CERAMIC TILE				
WD-1	RANDOM WIDTH YELLOW PINE PANELING				
WD-2	EXISTING HARVESTED HALF SAWN LOGS				
WB-1	1X4 YELLOW PINE RUNNING TRIM				

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340 STATE OF MISSOURI ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE NO. 000639

PROFESSIONAL SEAL



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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

PROJECT #	X2319-01
SITE#	5218
ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019

<b>REVISION:</b>	
DATE:	
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DATE:	
REVISION:	
DATE:	
ICCLIED ATE.	

ISSUEDATE:

CAD DWG FILE: DRAWN BY: CHECKED BY: **DESIGNED BY:** 

SHEET TITLE:

SCHEDULES AND PARTITION TYPES

SHEET NUMBER:

45 OF 54 SHEETS

## **TEMPERED SAFETY GLAZING REQUIREMENTS** FOR WINDOWS AND DOORS:

THE FOLLOWING LOCATIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION REQUIRING TEMPERED SAFETY GLAZING:

- 1. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BIFOLD DOORS . 2. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
- 3. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS, AND NON-STRUCTURAL INFILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE . 4. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE
- PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS. AND RAMPS . 5. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS
- THAN 36" ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD. 6. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL OF A WINDOW THAT MEETS ALL OF THE
  - FOLLOWING CONDITIONS: A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SF. B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
  - C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE THE FLOOR. D. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A

## STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

#### **EMERGENCY ESCAPE AND RESCUE OPENING OPERATIONAL REQUIREMENTS**

SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS. BARS, GRILLES, GRATES AND SIMILAR ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH SECTION 1030.2 AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING.

## **EMERGENCY ESCAPE AND RESCUE OPENING SIZE REQUIREMENTS**

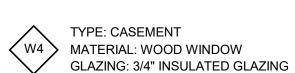
- WINDOWS & DOORS
  MIN. NET CLEAR OPENING OF 5.7 SF (5.0 SF AT GRADE-FLOOR OPENINGS). MIN. NET CLEAR OPENING HEIGHT DIMENSION OF 24 INCHES.
- MIN. NET CLEAR OPENING WIDTH DIMENSION OF 20 INCHES.
- MAX. 44 INCHES TO BOTTOM OF CLEAR OPENING FROM THE FLOOR.
- WINDOW WELLS MIN. 9 SF OF HORIZONTAL AREA.
- MIN. 36 INCH DIMENSION.

**WINDOW TYPES** 

1/4" = 1'-0"

EQUIPPED WITH AN APPROVED PERMANENT LADDER OR STEPS WHERE VERTICAL DEPTH IS GREATER THAN 44 INCHES.

**EMERGENCY ESCAPE** OPENING REQD.



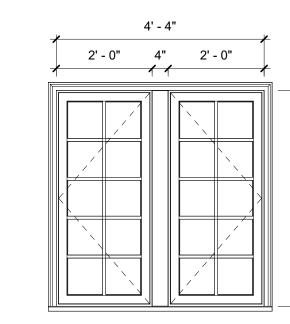
2' - 3"

TYPE: CASEMENT

2' - 8"

MATERIAL: WOOD WINDOW

GLAZING: 3/4" INSULATED GLAZING



TYPE: CASEMENT

√ W2 

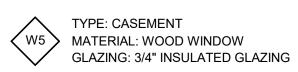
→ MATERIAL: WOOD WINDOW

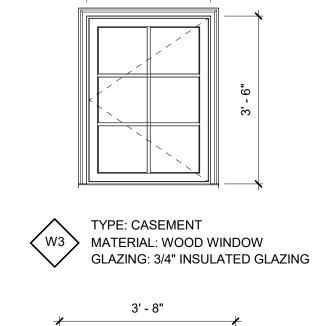
GLAZING: 3/4" INSULATED GLAZING

2' - 7 1/2"

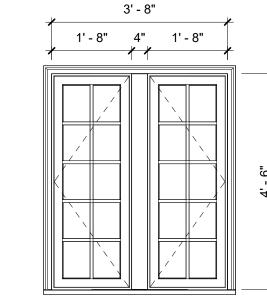
TEMPERED GLAZING

WHERE INDICATED





2' - 7"



TYPE: CASEMENT √ W6 
→ MATERIAL: WOOD WINDOW GLAZING: 3/4" INSULATED GLAZING

> **OFFICE OF ADMINISTRATION** DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSCTRUCTION **DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

STATE OF MISSOURI

MICHAEL L. PARSON,

**GOVERNOR** 

ROBERT WILSON WAGSTAFF - ARCHITECT MO# A-7340

STATE OF MISSOURI

ARCHITECTURAL CORPORATION ORIGINAL CERTIFICATE/LICENSE

NO. 000639

PROFESSIONAL SEAL

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PROJECT TITLE RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO 63956

5218

CABIN #1:	7815218008
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CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
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REVISION: DATE: REVISION: DATE: REVISION: DATE:	
SSUEDATE:	
CAD DWG FILE	:
DRAWN BY:	JB
CHECKED BY:	RW

PROJECT # X2319-01

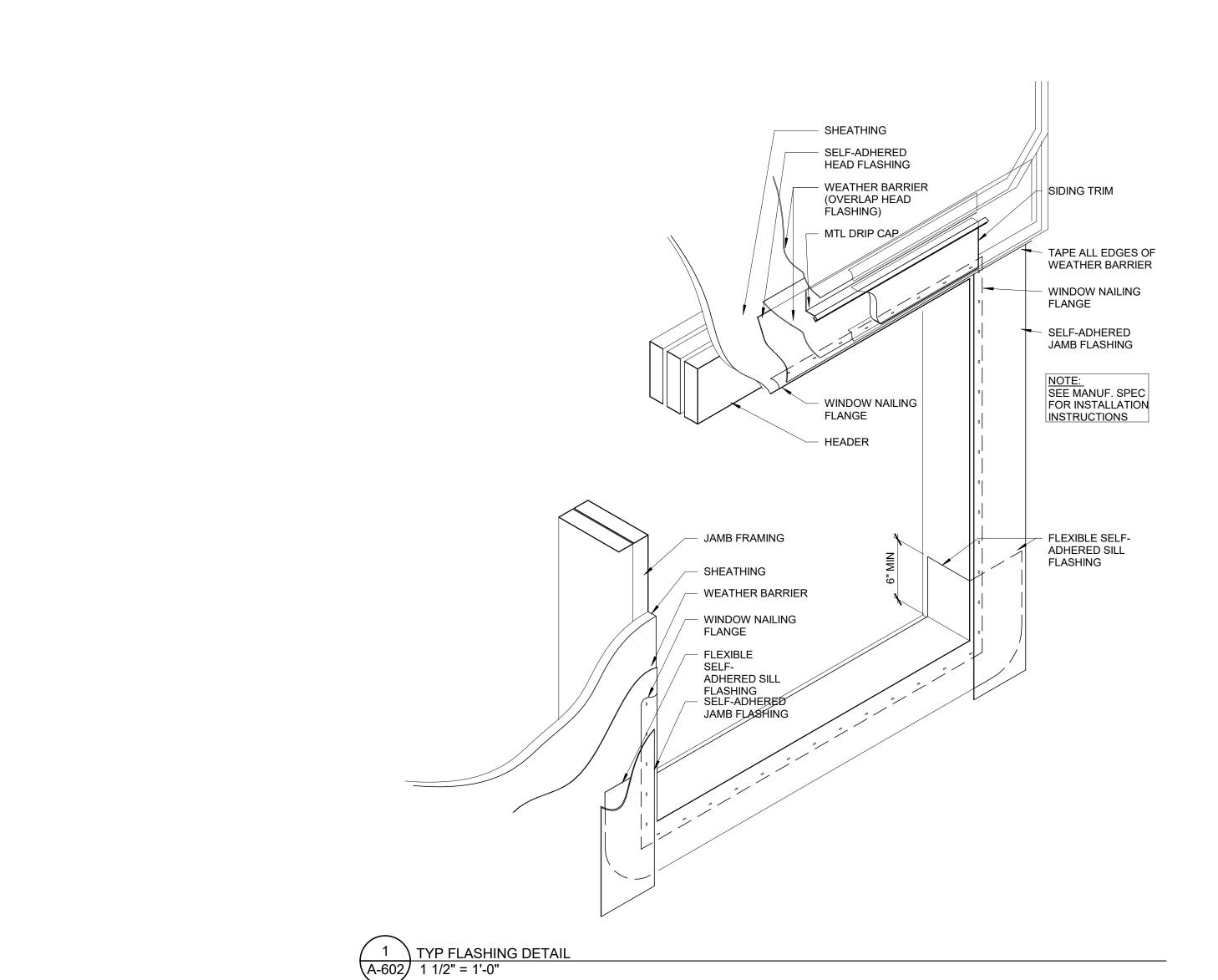
ASSET#

**DESIGNED BY:** SHEET TITLE:

WINDOW SCHEDULE

SHEET NUMBER:

46 OF 54 SHEETS



	PLUMBING SYMBOLS LEGEND
— G —	GAS PIPING
— CD —	CONDENSATE DRAIN PIPING
	COLD WATER PIPING
	HOT WATER PIPING (140°)
	HOT WATER RECIRCULATING PIPING
-SAN-	SANITARY WASTE PIPING
—FW—	FILTERED WATER PIPING
—140° —	140° WATER PIPING
— GW—	GREASE WASTE PIPING
	SANITARY VENT PIPING
VTR	VENT THROUGH ROOF
<del></del>	PLUMBING TRAP
	PIPE TURNING DOWN
0	PIPE TURNING UP
7	CHECK VALVE
<u>—</u>  —	UNION
AFF	ABOVE FINISHED FLOOR
CO	CLEAN OUT
<del></del>	PRESSURE REGULATING VALVE (PRV) (50 PSI)
<del></del>	BALL VALVE
Ø	BALANCE VALVE
EWF	ELECTRIC WATER FOUNTAIN
GCO	GRADE CLEAN OUT
<del>-</del> <del>2</del>	CIRCUIT SETTER BALANCE VALVE
•	POINT OF CONNECTION
<b>₽ (a) (b) (b) (c)</b>	BELOW FLOOR
<b>\bigcirc</b>	ABOVE CEILING
— PD —	PUMP DISCHARGE

TABLE TO CALCULATE WATER FIXTURE UNITS (PER CABIN)						
PLUMBING FIXTURE	WATER FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS			
WATER CLOSET	3	1	3			
LAVATORIES	1	1	1			
SINK	2	1	2			
SHOWER	2	1	2			
TOTAL WATER FIXTURE UNITS 8						
SUPPLY PIPE SIZE = 2"						

TABLE TO CALCULATE DRAINAGE FIXTURE UNITS							
(PER CABIN)							
PLUMBING FIXTURE DRAINAGE FIXTURE NUMBER OF TOTAL DRAINAGE FIXTURES UNITS							
WATER CLOSET	3	1	3				
LAVATORIES	1	1	1				
SINK	2	1	2				
SHOWER	2	1	2				
	TOTAL DRAIN	8					
	TOTAL DRAINAGE UNIT	4"					

## **EXISTING SANITARY SEWER CONDITIONS NOTE:**

SANITARY SEWER PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS. PLUMBING CONTRACTOR (PC) SHALL COORDINATE WITH EXISTING FIELD CONDITIONS VIA A SANITARY VIDEO SURVEY/SCOPE TO DETERMINE THE EXACT SIZE, LOCATION, INVERT ELEVATIONS AT THE PROPOSED CONNECTIONS TO EXISTING PLUMBING SERVICES PRIOR TO BID/CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROM THOSE AS INDICATED ON PLANS, PC SHALL NOTIFY GENERAL CONTRACTOR (GC) IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. PC SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

## **EXISTING WATER SERVICE CONDITIONS NOTE:**

WATER PRESSURE IS SHOWN AS DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE IN FIELD PRIOR TO ANY WORK AND PIPING ROUGH IN. IF DISCOVERED ON SITE THAT EXISTING WATER PRESSURE IS LESS THAN 60 PSI, CONTACT ENGINEER IMMEDIATELY FOR PIPING DESIGN CHANGES. IF PRESSURE IS GREATER THAN 80 PSI PROVIDE PRESSURE REDUCING VALVE AND REDUCE DOWN TO 77 PSI.

**FIXTURE** 

KITCHEN SINK - 2 BOWL

ELECTRIC WATER HEATER

FLOOR DRAIN

JR SMITH 2010-A

AO SMITH DEL-30

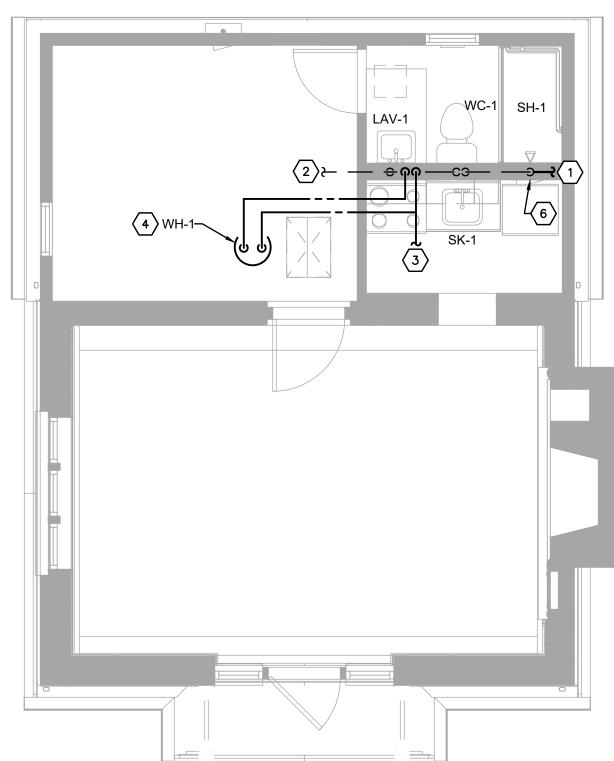
MARK

SK-2

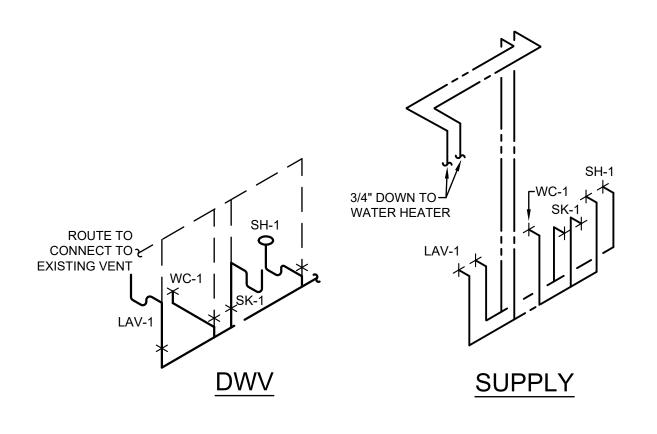
WH-1

SAN.

**VENT** 



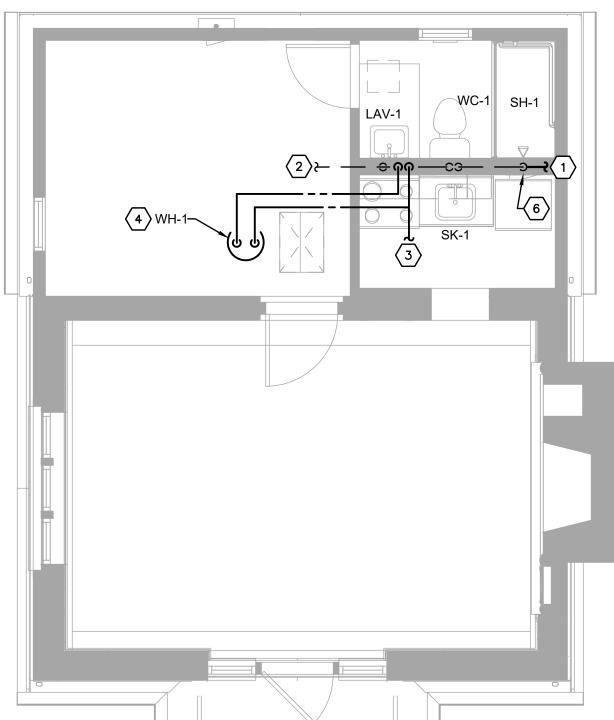
# 1 PLUMBING PLAN - CABINS 1, 2, 3, 4, 14 SCALE: 1/4" = 1'-0"



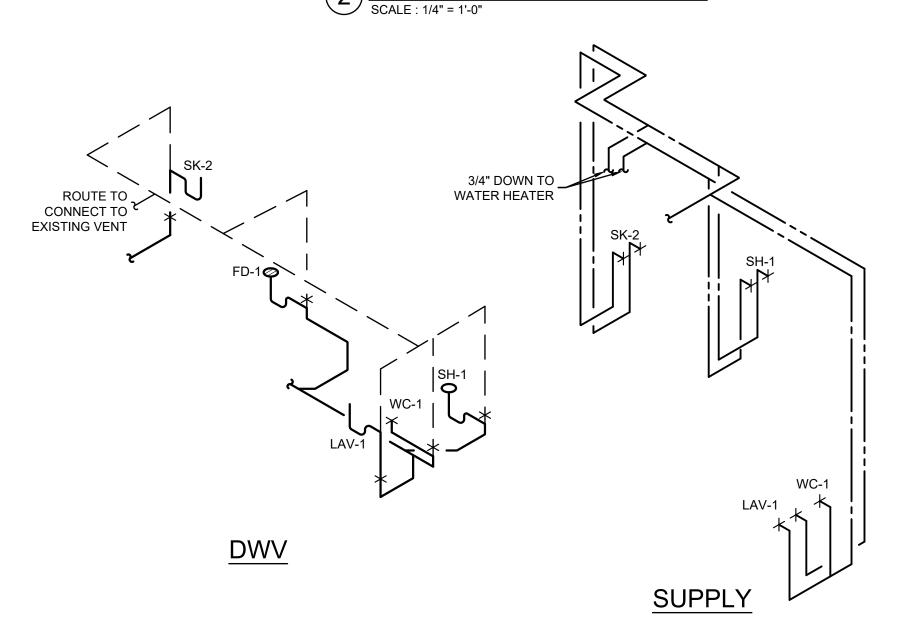
REMARKS

30 GALLON ELECTRIC TANK TYPE WATER HATER LOCATED IN

## 3 PLUMBING RISERS - CABINS 1, 2, 3, 4, 14



# 2 PLUMBING PLAN - CABIN 19 SCALE: 1/4" = 1'-0"



**UTILITY NOTE** 

GC TO COORDINATE EXACT UTILITY TIE IN LOCATIONS IN FIELD PRIOR TO WORK. CABINS 1 2, 3, 4, AND 14 SHARE IDENTICAL FLOOR LAYOUTS BUT UTILITY LOCATIONS MAY VARY IN

POP OFF VALVES TO BE COPPER AND NOT PEX.

# 4 PLUMBING RISERS - CABIN 19 SCALE: 1/4" = 1'-0"

PLUMBING KEYED NOTES

(1) ROUTE TO CONNECT TO EXISTING SANITARY PIPING IN SPACE. VERIFY EXACT SIZE,

 $\boxed{3}$  ROUTE TO CONNECT TO EXISTING SUPPLY PIPING FOR SPACE. VERIFY EXACT SIZE,

4 ROUTE WATER HEATER T&P RELIEF VALVE TO SAFETY PAN. SAFETY PAN TO BE ROUTED

(6) PROVIDE 18" X 18" ACCESS PANEL, BALL VALVE, AND AIR CHUCK FOR SHOWER CONTROL

VALVES.COORDINATE EXACT LOCATION AND INSTALLATION IN FIELD PRIOR TO WORK.

5 ROUTE WATER HEATER T&P RELIEF VALVE INDIRECTLY TO FLOOR DRAIN WITH CODE

LOCATION, AND DELIVERY PRESSURE IN FIELD PRIOR TO WORK.

LEAST 10' FROM ALL OUTSIDE AIR INTAKES.

LOCATION IN FIELD PRIOR TO WORK.

APPROVED AIR GAP.

LOCATION, FLOW DIRECTION, AND INVERT ELEVATION IN FIELD PRIOR TO WORK.

2 ROUTE TO CONNECT TO EXISTING VENT THROUGH ROOF FOR SPACE. IF NONE IS EXISTING

OR NEW IS REQUIRED, PROVIDE NEW 3" VENT THROUGH ROOF FOR SPACE. MAINTAIN AT

WITH CODE APPROVED INDIRECT CONNECTION OUTSIDE OF BUILDING. COORDINATE EXACT

#### PLUMBING NOTE:

PROVIDE BRASS FITTINGS ON ALL SANITARY PIPING CONNECTIONS.

#### LAVATORY LAV-1 1/2" 1/2" WC-1 WATER CLOSET 1/2" DUAL FLUSH SH-1 3/4" SHOWER SK-1 KITCHEN SINK 1/2"

PLUMBING FIXTURE SCHEDULE

C.W.

H.W.

3/4"

3/4"

CAST IRON BODY

ATTIC SPACE.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 







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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF **STATE PARKS** 

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

7815218003

7815218019

PROJECT # X2319-01 SITE# ASSET # CABIN #1: 7815218008 CABIN #2: 7815218007 7815218022 CABIN #3: CABIN #4: 7815218005

**REVISION:** DATE: REVISION: DATE: REVISION: DATE: ISSUEDATE:

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

CABIN #14:

CABIN #19:

SHEET TITLE:

**PLUMBING** PLANS

SHEET NUMBER:

#### PLUMBING SPECIFICATIONS

HE "ARCHITECTURAL GENERAL CONDITIONS" GOVERN WORK UNDER THIS

BEFORE SUBMITTING A PROPOSAL, THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND SHALL CAREFULLY EXAMINE THE DRAWINGS ANI SPECIFICATIONS IT IS EXPRESSLY LINDERSTOOD THAT THIS PROPOSAL IS BASED. PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE ON THE ABOVE REQUIREMENTS AND THAT IT COVERS EVERYTHING NECESSARY

2. INSPECTION AND COOPERATION PROUTOR, AS IM D- 096. ALL OTHER EAGAVA COMPACTED TO 95% STANDARD PROCTOR. WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT OR ENGINEER. THIS CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS TO ALLOW FOR THE INSTALLATION OF THEIR WORK AS WELL AS HIS OWN.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AVOID INTERFERENCE

CONFLICT WITH ANY CITY OR PROVINCIAL LAW, REGULATION, CODE, ORDINANCE, OR SAGS TO THE PIPING SYSTEMS THAT OCCUR FROM THE IMPROPER RULING, OR FIRE UNDERWRITER'S REQUIREMENT APPLICABLE TO THIS CLASS OF

SHOULD THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH SUCH LAWS OR ORDINANCES, THE CONFLICTING PORTION OF THE WORK SHALL BE INSTALLED ANY STRUCTURAL STEEL MEMBERS REQUIRED TO ADAPT THE FOLIPMENT AND STRICTLY IN ACCORDANCE WITH SUCH LAWS AND ORDINANCES WITHOUT EXTRA PIPING AS FURNISHED BY THIS CONTRACTOR. TO THE BUILDING STEEL OR

NSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK

4. ACCURACY OF DATA
THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THIS DISTANCES, ELEVATIONS AND EXISTING PIPE SIZES BEFORE STARTING THE WORK ALL OF THIS CONTRACTOR'S WORK, EXCEPT WHERE NOTED OTHERWISE AS ALL PIPING SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RAISED AND

MECHANICAL DRAWINGS SHALL NOT BE USED FOR GENERAL CONSTRUCTION ALL PATCHING SHALL BE NEATLY FINISHED TO THE SATISFACTION OF THE DIMENSIONS OR FOR TYPE OF MATERIAL USED. FOR EXACT BUILDING LAYOUT, MENSIONS AND BUILDING MATERIAL USED, THIS CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS.

5. <u>SHOP DRAWINGS</u>
SHOP OR INSTALLATION DRAWINGS. FOUNDATION PLANS. EQUIPMENT OR APPARATUS DRAWINGS SHALL BE FURNISHED BY THIS CONTRACTOR. THESE AWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO B SUPPLIED AND SHALL STATE CAPACITIES SIZES AND GENERAL DESCRIPTION OF ALL EQUIPMENT. ANY CHANGES FROM THE SPECIFIED ITEMS SHALL BE NOTED ON ALL PANELS SHALL BE MILCOR, STYLE "M" FOR MASONRY, "A" FOR ACOUSTICAL

SHOP DRAWINGS OF SPECIAL APPARATUS OR EQUIPMENT WHICH IS TO BE ABRICATED INDIVIDUALLY FOR THIS PROJECT AND IS NOT DESCRIBED BY STANDARD MANUFACTURER'S DRAWINGS OR BULLETINS SHALL BE SUBMITTED FOR PROCESSING BEFORE FABRICATION

THESE DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER.

IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO MAINTAIN LIAISON WITH ALL PARTIES CONCERNED WITH THE MATERIAL SUBMITTED. THIS CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN ROCESSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES ACCRUED FROM THE RETURN OF FIXTURES PURCHASED PRIOR TO THE REVIEW OF SHOP DRAWINGS AND THAT ARE NOT APPROVED.

THIS CONTRACTOR SHALL SUBMIT NO DRAWINGS WITHOUT NOTATION INDICATING DATE OF CONTRACTOR'S REVIEW AND SIGNATURE OF CHECK FOR CONTRACTOR TOGETHER WITH CONTRACTOR'S NAME AND PROJECT

ARCHITECT'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT GENERAL METHOD OF CONSTRUCTION AND DETAILING IS

ARCHITECT'S PROCESSING WILL NOT RELIEVE THE CONTRACTOR OF FOR DIMENSIONS AND DESIGNS OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK, AS WELL AS FURNISHING MATERIALS AND WORKMANSHIP REQUIRED BY DRAWINGS AND SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE SUBMITTALS WHEN APPROVED.

REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR: EQUIPMENT VOLTAGES AND DIMENSIONS TO BE CONFIRMED AND CORRELATED WITH ALL DISCIPLINES PRIOR TO PURCHASE: INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE AND SATISFACTORY MANNER.

#### 6. <u>SUBSTITUTIONS OF EQUIPMENT OR MATERIAL</u>

THE BRAND NAMES OF EQUIPMENT OR MATERIALS SPECIFIED HEREIN SHALI ESTABLISH QUALITY, CAPACITY, TYPE AND DIMENSIONS TO BE INCLUDED IN THE THE CONTROLLED FLEXING TYPE.

APPROVAL OF SUBSTITUTED ITEMS WILL BE BASED ON ABILITY AND CAPACITY TO PERFORM FUNCTION SERVED, QUALITY AND AVAILABILITY OF PARTS AND ERVICE, QUALITY OF EQUIPMENT, DELIVERY SCHEDULE, ETC. THE ARCHITECT SHALL REVIEW ALL SUCH REQUESTS BUT RESERVES THE SOLE RIGHT OF JUDGEMENT TO APPROVE OR REJECT THE PROPOSED SUBSTITUTIONS.

ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL NOT CAUSE ADDITIONAL COST. ANY CHANGES OF PIPING, DUCTWORK, ELECTRICAL CONTROLS OR INSTALLATION REQUIRED BECAUSE OF THE SUBSTITUTION OR EQUIPMENT SHALL BE PAID FOR BY THIS CONTRACTOR PROPOSING THE

#### 7. <u>ERECTION OF APPARATUS</u>

ALL WORK SHALL BE DONE UNDER THE PERSONAL SUPERVISION OF THIS CONTRACTOR WHO SHALL PROVIDE A COMPETENT FOREMAN TO LAY OUT ALL WORK. ALL WORK SHALL BE LAID OUT WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THIS CONTRACTOR SHA REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF

CONFLICT BETWEEN TRADES, THIS CONTRACTOR SHALL MAKE COMPOSITE WINGS SHOWING THE EXACT LOCATIONS OF PIPES, DUCT, CONDUIT AND FOUIPMENT DRAWINGS SHALL BE BASED ON FIFLD MEASUREMENTS AND AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK. EQUIPMENT OF A TYPE TO REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR

#### 8. EXCAVATION AND BACKFILL

REMOVAL OF INTERNAL ASSEMBLIES, IT REQUIRED.

THIS CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED TO INSTALL PIPES AND EQUIPMENT SHOWN ON THE PLANS OR REQUIRED FOR PROPER OPERATION. XCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITIES SERVICES LINES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE

INSTALL PLASTIC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 (STORAGE AND INSTALL ATION PROCEDURES FOR PLASTIC DRAIN, WASTE, AND VENT PIPING) AND FOR BURIED PIPE ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS) SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND HOSE END VALVES SHALL BE #438 GATE VALVES WITH HOSE END NIPPLES. GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.

CAST IRON PIPING TRENCHING SHALL BE IN ACCORDANCE TO THE CAST IRON SOIL PIPE AND FITTINGS HANDBOOK ISSUED BY THE CAST IRON SOIL PIPE

THE BOTTOM OF TRENCHES SHALL BE TAMPED HARD AN GRADED TO SECURE THE REQUIRED FALL. ROCK, WHERE ENCOUNTERED SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE. AND BEFORE TH FILLED WITH GRAVEL. IF TRENCHES ARE DEEPER THAN BOTTOM OF FLOORING OR CLOSER THAN THREE FEET (3'0") TO FOOTING THEY MUST BE FILLED WITH COHESIVE SOIL AND COMPACTED TO 95% OF MAXIMUM DENSITY STANDARD PROCTOR, ASTM D- 698. ALL OTHER EXCAVATIONS UNDER FLOOR SLABS

WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF EARTH WITHOUT CONFLICT WITH THE OTHER TRADES, WHERE PROPER PLANNING COULD FREE FROM CLODS, AND STONES THOROUGHLY TAMPED TO A DEPTH OF 12"

ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL BE DONE IN 12" LAYERS, THOROUGHLY TAMPED. NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO ANY DAMAGES

STRUCTURE, SHALL BE INCLUDED IN THE BID OF THE CONTRACTOR FURNISHING THE FOUIPMENT OR PIPING HANGING OF ALL FOUIPMENT AND REQUIRED THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND SUPPORTING STEEL AND BRACING SHALL BE FURNISHED BY THE CONTRACTOR

CUTTING AND PATCHING

EQUIPMENT SUPPORTS

THIS CONTRACTOR SHALL INCLUDE ALL CUTTING PATCHING AND PAINTING OF CONTRACTOR SHALL EXAMINE THE LOCATIONS AND VERIFY ALL MEASUREMENTS, PATCHED AREAS REQUIRED FOR AND RESULTING FROM THE INSTALLATION OF ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH SMOKE OR FIRE-RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIAL DROPS IN PIPING AND DUCTWORK AS REQUIRED BY BUILDING CONDITIONS AT NO HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING AND/OR FLOOR

THIS CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY THE GENERAL CONTRACTOR ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED

LE AND "K" FOR PLASTER; EXCEPT FOR FIRE-RATED UL 1-1/2 HOUR AND "B" LABEL ACCESS PANELS SHALL BE FURNISHED IN FIRE-RATED WALLS AND CEILINGS AS INDICATED ON THE DRAWINGS, ACCESS DOORS SHALL BE 12" X 12" MINIMUM SIZE FOR VALVES. DIELECTRIC UNIONS

FOR THE PREVENTION OF ELECTROLYTIC CORROSION AT CONNECTIONS

MOTORS, STARTERS AND DISCONNECTS

BETWEEN PIPE OF DISSIMILAR METALS OR BETWEEN PIPE AND EQUIPMENT CONNECTIONS OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR

UNLESS SPECIFIED TO BE FURNISHED WITH EQUIPMENT, ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

THREADS ON SCREWED PIPE SHALL BE STANDARD, CLEAN BUTT AND TAPERED. PIPE SHALL BE REAMED OF BURRS AND KEPT CLEAN OF SCALE, DIRT AND SHAVINGS. TREADS SHALL BE MADE WITH FLAKED GRAPHITE AND LUBRICATING OIL OR APPROVED PIPE COMPOUND ON THE MALE THREAD ONLY.

COPPER-TO-STEEL AND COPPER-TO-BRASS JOINTS SHALL BE MADE WITH SILVER RESPONSIBILITY FOR ERRORS SINCE THIS CONTRACTOR IS SOLELY RESPONSIBLE SOLDER. ALL OTHER COPPER-TO-COPPER JOINTS ABOVE GROUND SHALL BE MADE WITH LEAD FREE SOLDER. COPPER PIPE SHALL BE CUT SQUARE, BURRS REMOVED AND CARE SHALL BE GIVEN TO KEEP THE LINES FREE OF DIRT AND MOISTURE. ALL TUBING AND FITTINGS SHALL BE THOROUGHLY CLEANED. WELDED PIPE SHALL HAVE BUTT WELDED SINGLE "V" TYPE JOINTS FOR WHICH CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING ENGINEER PIPE HAS BEEN BEVELED TO 45 DEGREES. WELD SHALL BE ONE-FOURTH ACCESSORIES, ETC. SHALL BE MADE BY MEANS OF FLANGES AND/OR ADAPTERS.

> UNIONS SHALL BE PROVIDED AT EACH SCREWED VALVE AND UNIONS OR FLANGES AT EACH EQUIPMENT CONNECTION.

WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE FURNISH AND INSTALL FLEXONICS EXPANSION JOINTS IN PIPING SYSTEM WHERE SHOWN OR NECESSARY FOR EXPANSION AND CONTRACTION EXPANSION JOINTS IN PIPE 4" AND GREATER SHALL BE THE PACKLESS TYPE WITH

> EXPANSION JOINTS IN COPPER PIPE LINDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL BELLOWS

AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES. EXPANSION JOINTS IN STEEL PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL FLBOWS

AND CARBON STEEL SHROUDS AND END FITTINGS. INTERNAL GUIDES AND

PROVIDE GUIDES ON EACH SIDE OF EXPANSION JOINT, AT 4 PIPE DIAMETERS, 14 PIPE DIAMETERS, AND A THIRD GUIDE AS RECOMMENDED BY THE

#### PIPE FLEXIBLE CONNECTIONS

FLEXIBLE PIPE CONNECTIONS SHALL BE RESISTOFLEX #R6904 OR APPROVED **EQUAL FLEXIBLE CONNECTIONS MADE FROM TEFLON** 

PROVIDE FOR MOVEMENT IN PIPING BY USE OF SWING JOINTS AT CONNECTION OF ALL BRANCHES TO MAINS AND RISERS. ALL BRANCHES FROM MAINS AND RISERS SHALL HAVE 1/4" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE TO PERMIT PIPE MOVEMENT

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES OF ONE MANUFACTURER FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK LINESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE CRANE CATALOG. EQUAL VALVES OF REPUTABLE MANUFACTURERS, SUCH AS HAMMOND, NIBCO-SCOTT AND/OR JENKINS WILL BE

ISOLATION VALVES SHALL BE PROVIDED ON ALL INDIVIDUAL FIXTURES AND CHECK VALVES 2-1/2" AND SMALLER SHALL BE #36 (SCREWED ENDS) OR #1342 (SOLDER-JOINT ENDS) SWING-TYPE WITH BRONZE BODY AND BRONZE TRIM.

ALL VALVES SHALL BE BUILT FOR A MINIMUM OF 125 PSIG WORKING PRESSURE.

BUTTERFLY VALVES 2" AND LARGER SHALL BE #12F, IRON BODY, CAST-IRON WAFER W/LOCK LEVER. BALL VALVE UP TO 3" IN SIZE SHALL BE APOLLO SERIES #70 BRONZE VALVE WITH CHROME-PLATED BALL AND TEFLON SEAT.

GAS LINE COCKS UP TO 4" SHALL BE #320. 1/2 PSI FOR INDOOR APPLIANCE CONNECTIONS SHALL CONFORM TO ANSI Z21.15 AND CSA 9.1, 5 PSI FOR INDOOR SHUTOFF SHALL CONFORM TO CGA 91-002 AND ASME B16.44

#### 18. PIPE SLEEVES AND COLLARS

THIS CONTRACTOR SHALL LAY OUT ALL HIS WORK AND SET SLEEVES IN NEW DNSTRUCTION AS CONCRETE FORMS AND WALL ARE ERECTED SO AS TO BE ABLE TO INSTALL HIS WORK WITHOUT CUTTING OR BREAKING OF FLOORS O WALLS. ALL SLEEVES FOR INSULATED PIPING SHALL BE LARGE ENOUGH TO ALLOW INSULATION TO PASS THROUGH SLEEVE.

ALL SLEEVES PASSING THROUGH FLOORS WHICH ARE WATERPROOFED SHALL BE THIS WORK SHALL BE PERFORMED PRIOR TO TURNOVER TO BUILDING OCCUPANT COPPER TUBING SLEEVES EXTENDING 1" ABOVE FINISHED FLOOR. ALL OTHER SLEEVES SHALL BE 24 GAUGE GALVANIZED PIPES AND SLEEVES TO BE THOROUGHLY PACKED WITH WATERPROOF SEALANT AND THE REMAINING SPACE FILLED WITH MASTIC AND MUST BE WATERTIGHT.

ALL SLEEVES PASSING THROUGH INNER WALLS SHALL BE STANDARD PIPE THIMBLES EQUAL TO THE THICKNESS OF THE WALL.

SPACES BETWEEN PIPES AND SLEEVES THROUGH OUTSIDE WALLS. ABOVE AND THE CONTRACTOR SHALL INSTALL ALL REQUIRED TIE DOWN, ANCHORS, GRADE, SHALL BE CAULKED WITH CAULKING COMPOUND; THOSE BELOW GRADE STRAPS OR OTHER DEVICES REQUIRED. SPACE AROUND ALL PIPING THROUGH FIRE OR SMOKE RATED PARTITIONS OR

FLOORS SHALL BE SEALED AIRTIGHT WITH MATERIALS OR EQUIPMENT AS THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR SPECIFIED UNDER FIRESTOPPING

ALL PIPE PENETRATIONS OF SLABS ON GRADE SHALL BE WRAPPED WITH #15 BUILDING FELTS OR FOAM WRAP.

A. PIPE HANGER AND SUPPORT PRODUCTS INSTALLATION VERTICAL PIPING: MSS TYPE 8 OR 42 CLAMPS INDIVIDUAL. STRAIGHT. HORIZONTAL PIPING RUNS: 100 FEET AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS. LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER

HANGERS. LONGER THAN 100 FEET IF INDICATED: MSS TYPE 49, SPRING CUSHION ROLLS. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER:MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON

d. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS. B. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH

C. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD

HANGERS, TO A MINIMUM OF 3/8 INCH INSTALL HANGERS FOR ALL PIPING PER MSS SP-69, MANUFACTURERS MANUALS AND AS PER HANGER SUPPORT DETAIL ON DRAWINGS INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET. INSTALL SUPPORTS FOR VERTICAL STEEL PIPING EVERY 15 FEET. G. SUPPORT PIPING AND TUBING NOT LISTED IN THIS ARTICLE ACCORDING TO MSS SP-69 AND MANUFACTURER'S WRITTEN

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS

DAMAGE BY LEAKS

PIPE MARKERS SHALL BE LOCATED

22. FLOOR, WALL AND CEILING PLATES

WALKS, ROADS, ALL BUILDING COMPONENTS AND FINISHES, PIPING SYSTEMS. ELECTRICAL SYSTEMS AND THEIR EQUIPMENT AND CONTENT, CAUSED BY LEAF IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED HEREIN. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE. 21. PIPE MARKERS

FURNISH AND INSTALL BRADY #B-350 THIN FILM OR APPROVED EQUAL PIPE MARKERS. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4 HIGH FOR PIPES OVER 3" MARKERS SHALL INDICATE TYPE OF SERVICE AND

AT ACCESS DOORS AT BRANCH MAINS ON ALL ACCESSIBLE PIPE A MAXIMUM OF 75' BETWEEN MARKERS. AT ALL PENETRATIONS ON EITHER SIDE OF PENETRATION

AT EQUIPMENT CONNECTIONS

PIPES PASSING THROUGH FLOORS AND FINISHED CEILINGS. FITTED WITH CHROME- PLATED PLATES OR ESCUTCHEONS LARGE ENOUGH TO COMPLETELY CLOSE OPENING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE CASE OF VERTICAL PIPING. SECURELY HELD IN PLACE; CAULK WATERTIGHT AROUND PIPE IN UNFINISHED ROOMS.

THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS OR FLOORS SHALL BE STERILIZATION SHALL BE PERFORMED PRIOR TO TURNOVER TO OCCUPANT AS TO PROTECTED BY A UL APPROVED MATERIAL TO RETAIN THE INTEGRITY OF THE TIME-RATED CONSTRUCTION BY MAINTAINING AS EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES. IT SHALL BE USED IN ALL DUCT CABLE. CONDUIT AND PIPING PENETRATIONS THROUGH FLOOR SLABS AND TIME-RATED WALLS, AND/OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL

EQUAL THE RATING OF THE TIME-RATED ASSEMBLY. FIRESTOPPING MATERIAL SHALL BE 3M FIRE BARRIER SEALING SYSTEM OF APPROVED EQUAL. FIRESTOPPING MATERIAL SHALL CONSTITUTE ONE OR MORE

OF THE FOLLOWING PRODUCTS: CAULK: CP-25

PUTTY: #303 WRAP/STRIP: FS195

COMPOSITE SHEET: CS19 PENETRATING SEALING SYSTEMS: 7900 SERIES

STAINLESS STEEL BELLOWS AND HAVE WELDED OR FLANGED END. JOINTS SHALL INSTALLATION OF FIRESTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH HAVE TRAVERSE AS INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE OF AND IN STRICT CONFORMITY WITH MANUFACTURER'S PRINTED INSTRUCTIONS AS LAID. ALL PIPE SHALL BE LAID WITH ENDS ABUTTING AND TRUE TO LINE AND TO SURFACE PREPARATION INSTALLATION AND QUALITY CONTROL. AREAS OF GRADE THEY SHALL BE FITTED AND MATCHED SO THAT THEY WILL FORM A WORK SHALL REMAIN ACCESSIBLE UNTIL INSPECTION AND APPROVAL BY THE APPLICABLE CODE AUTHORITIES

ON INSULATED PIPES, THE FIRE-RATING CLASSIFICATION SHALL NOT REQUIRE REMOVAL OF THE INSULATION.

SUBMIT MANUFACTURER'S PRODUCT DATA, LETTER OF CERTIFICATION OR CERTIFIED LABORATORY TEST REPORT THAT THE MATERIAL OR COMBINATION OF ABS AND FOAM CORE PVC ARE NOT ACCEPTABLE MATERIALS MATERIALS MEET THE REQUIREMENTS SPECIFIED IN ASTM E814 AND ARE SO CLASSIFIED IN UL'S BUILDING MATERIALS DIRECTORY. MATERIALS SHALL MEET AND BE ACCEPTABLE FOR USE BY ALL MODEL BUILDING CODES. MATERIALS

SHALL MEET THE REQUIREMENTS OF NFPME61- LIFE SAFETY CODE AND NFPA 70 NATIONAL ELECTRICAL CODE. SUBMIT SHOP DRAWINGS, PRODUCT DATA, CERTIFICATES AND MANUFACTURER'S FITTINGS TO BE, CYLINDRICAL AND FREE FROM CRACKS OR OTHER DEFECTS. INSTALLATION INSTRUCTIONS, SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL MATERIALS AND PREFABRICATED DEVICES, PROVIDING DESCRIPTIONS SUFFICIENT FOR IDENTIFICATION AT THE JOB SITE. INCLUDE MANUFACTURER'S

INSTRUCTIONS FOR INSTALLATION. SUBMIT SHOP DRAWINGS SHOWING PROPOSED MATERIAL REINFORCEMENT ANCHORAGE, FASTENINGS, AND METHOD OF INSTALLATION. CONSTRUCTION DETAILS SHALL ACCURATELY REFLECT ACTUAL JOB CONDITIONS.

24. CLEANUP AND ADJUSTMENT

ALL PARTS WORK LEFT CLEAN: EQUIPMENT, FIXTURES, VALVES, PIPES AND FITTINGS CLEANED OF GREASE AND METAL CLITTINGS. ANY DISCOLORATION OR OTHER DAMAGE TO PORTIONS OF BUILDING, ITS FINISH OR FURNISHING DUE TO THIS CONTRACTORS FAILURE TO PROPERLY CLEAN INTERIOR OF PIPING, REPAIRED AT THIS CONTRACTOR'S EXPENSE ALL ALTOMATIC CONTROL DEVISES. AT INTERVALS OF NO GREATER THAN 50' AT ANY STACK ROLLTING BELOW GRADE ADJUSTED FOR PROPER OPERATION. ALL SURPLUS MATERIALS AND ANY RUBBISH REMOVED AS IT ACCUMULATES. ALL EQUIPMENT LEFT IN SAFE, PROPER

DAMAGE TO ANY PORTIONS MUST BE REPAIRED OF THE PART REPLACED BY THIS CONTRACTOR AND ALL PARTS LEFT WITHOUT DENTS, SCRATCHES, THROUGH THE POSSIBLE. ALL HORIZONTAL SOIL WASTE AND VENT PIPE SHALL BE GRADED FINISH PAINT, LOOSE PLASTER, STAINS OR OTHER BLEMISHES.

25. PIPE TESTING AND START-UP

ALL PIPING TO BE TESTED IN ACCORDANCE WITH THE FOLLOWING: WATER - 100 PSI WATER PRESSURE ALL TESTING MUST HOLD FOR AT LEAST 24 HOURS WITHOUT LOSS OF PRESSURE OR VACUUM. ALL CONCEALED PIPING SHALL BE TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. BEFORE STARTING ANY SYSTEM. ALL EQUIPMENT SHALL BE LUBRICATED PER MANUFACTURERS REQUIREMENTS BY THIS CONTRACTOR. TEST ENTIRE BUILDING SYSTEMS UNDER FULL LOAD CONDITIONS FOR A PERIOD OF NOT LESS THAT ONE (1) WEEK DURING WHICH TIME THE OPERATING PERSONNEL SHALL BE FULLY INSTRUCTED IN THE OPERATION AND MAINTENANCE OF THE PLANT. AFTER THE PLANT IS IN FULL OPERATION, THIS CONTRACTOR IS TO FURNISH WHATEVER ADDITIONAL SERVICE

IS REQUIRED TO RECALIBRATE AND RESET CONTROLS, VALVES, BALANCING COCKS, ETC. TO ENSURE PROPER OPERATION OF THIS SYSTEM.

TESTING AND BALANCING

TEMPORARY WATER

DOMESTIC WATER SERVICE

THIS CONTRACTOR SHALL AT THE TIME OF INSTALLATION ENSURE THAT ALL DEVICES TO COMPLETE TESTING AND BALANCING AS DIRECTED HEREIN ARE JRNISHED AND INSTALLED DURING FABRICATION AND INSTALLATION OF WORK. AND WITH AMPLE TIME TO MAKE ANY NECESSARY REPAIRS OR CHANGES TO ACHIEVE A PROPERLY OPERATING SYSTEM.

SEISMIC RESTRAINTS ON MECHANICAL EQUIPMENT

TEMPORARY WATER SERVICE (IF REQUIRED) TO THE BUILDING SHALL BE

PURPOSES. THIS CONTRACTOR TO MAINTAIN WATER SERVICE AS REQUIRED

THIS CONTRACTOR SHALL COORDINATE EXACT AVAILABLE DELIVERY PRESSURE

RESSURE IS LESS THAN 65PSI STATIC. PROVIDE PRESSURE REDUCING VALVE

WITH STRAINER IN SERVICE LINE IF REQUIRED BY LOCAL CODES OR PRESSURE IS

MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND PRESS FITTINGS

ARE AN ACCEPTABLE IF ALLOWED BY LOCAL AHJ. WHERE PRESS FITTING S ARE

NOT ALLOWED SOLDERED AS LISTED BELOW. FLUX. SHALL BE NON-CORROSIVE

VICTAULIC GROUVED COUPLINGS ARE ACCEPTABLE ALTERNATE IF ALLOWED BY

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING

DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TURING: E.G.

GALVANIZED STRAPPING. HANGERS. OR CLAMPS TO SECURE THE TUBING.

MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER

MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN

INSTALLED IN A PLENUM AND APPROVED BY LOCAL CODE OFFICIALS.

VIEGA, PROPRESS COPPER 1/2-INCH THROUGH 4-INCH WITH EPDM SEALIN

ELEMENT AND/OR VIEGA, PROPRESS 304 OR 316 STAINLESS 1/2-INCH THROUGH

4-INCH WITH EPDM OR FKM SEALING ELEMENT IS ACCEPTABLE IF ALLOWED BY

OF ANY DEBRIS AND THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING

SHALL REMAIN IN THE SYSTEM FOR TWO (2) HOURS DURING WHICH TIME ALI

NOT LESS THAN 100 PARTS PER MILLION OF AVAILABLE CHLORINE. THE SOLUTION

VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER

CLEAN WATER UNTIL THE RESIDUE CHLORINE CONTENT IS NOT GREATER THAN

NOT ALLOW FOR THE WATER SYSTEM TO REMAIN STAGNANT FOR LONGER THAN

THIS CONTRACTOR SHALL HAVE THE WATER TESTED AND APPROVED BY THE

THIS CONTRACTOR SHALL CONNECT SANITARY SEWER AS INDICATED ON THE

EACH PIPE SHALL BE LAID TO THE LINE AND GRADE INDICATED ON THE PLANS

ADJOINING PIPE AND TO PRESENT OFFSETS IN FLOW LINE. ALL PIPE SHALL BE

EACH JOINT SHALL BE CLEANED AS IT IS LAID AND ALL BELLS SHALL BE CLEANED

PVC SEWER PIPE MAY BE USED IN LIEU OF THAT SPECIFIED ABOVE IF ALLOWED

THE DRAINS SOIL WASTE AND VENT PIPE AND FITTINGS INCLUDING EXTENSIONS

O SEWERS SHALL BE OF THE SIZES INDICATED ON THE DRAWINGS. PIPE AND

ALL TRENCHES TO BE DUG WITH GRADUAL FALL, THE PIPING TO BE STRAIGH

AND AS DIRECT AS POSSIBLE, AVOIDING ALL UNNECESSARY OFFSETS. THE

IE ARRANGEMENT OF THE SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS

STACKS SHALL BE FIRMLY SECURED IN POSITION WITH WROUGHT IRON CLAMPS

ALL CHANGES IN DIRECTION OF SOIL OR WASTE PIPE SHALL BE MADE BY MEANS

OF "Y" BRANCHES AND 1/8 BENDS. NINETY DEGREE SHORT TURN FITTINGS WILL

SANITARY CLEANOUTS ARE TO BE PROVIDED AT EVERY TURN GREATER THAN 45°.

ALL TRAP SCREWS MUST BE OF FULL SIZE OF PIPE UP TO 4" AND 4" FOR ALL OVER

THIS SIZE. CONNECTIONS BETWEEN OUTLETS OF FIXTURES AND SOIL OR WASTE

NOT BE PERMITTED EXCEPT TO INDIVIDUAL FIXTURE CONNECTIONS OR WHERE

NOT ALL CLEANOUTS LOCATIONS MAY BE SHOWN ON THE DRAWING.

PIPE SHALL BE MADE WITH "Y" BRANCHES TO "TY" BRANCHES WHEREVER

OWARD OUTLETS AND PIPE NOT BURIED SHALL BE INSTALLED ABOVE THE

THE STACKS SHALL BE EXTENDED THROUGH ROOF OF BUILDING TO POINTS NOT

LESS THAT 12" ABOVE ROOF. EXTENSIONS THROUGH ROOF SHALL BE MADE

SPREAD OVER A DISTANCE OF NOT LESS THAN TWELVE INCHES (12") AROUND

PIPE. THIMBLE TO BE SOLDERED TO BASE AND EXTENDED OVER AND TURNED

WATER- TIGHT BY MEANS OF A LEAD FLASHING OF FOUR POINTS SHEET LEAD

AND SUCH A MANNER AS TO FORM A CLOSE CONCENTRIC JOINT WITH THE

DRAWINGS. VERIFY DIRECTION OF FLOW PRIOR TO ANY ROUGH-IN WORK.

STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH

SOLDER 1200 DEG. F. OR GREATER MELTING POINT

(MALE AND FEMALE) SURFACES OF THE UNIONS.

31. STERILIZATION OF DOMESTIC WATER SYSTEM

THE CHLORINE LEVEL OF THE AVAILABLE WATER SUPPLY.

LAID WITH THE BELLS UPHIL

BEFORE PIPES ARE JOINED.

AND FREE FROM ANY SAGS.

SEWER WITH A SMOOTH AND UNIFORM INVERT.

SDR 35 IS NOT ACCEPTABLE FOR UNDER BUILDING USE.

THE FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.

DOWN INTO END OF PIPE IN AN APPROVED MANNER

WASTE, SOIL, DRAIN AND VENT PIPING

SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE,

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO

EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING

ALTERNATE MATERIALS - PEX-A PIPING IS AN ACCEPTABLE ALTERNATE IF NOT

PROVIDED BY THIS CONTRACTOR TO THE BUILDING FOR CONSTRUCTION

AND PROVIDE ALTERNATE FEE FOR A PRESSURE BOOSTING SYSTEM IF

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE

ALL JOINTS OF CAST IRON PIPE SHALL BE MADE WITH MANUFACTURERS OMMENDED JOINING MATERIAL. AT THE CONTRACTOR'S OPTION HE MAY USE NO-HUB PIPE, FITTINGS, COUPLING AND GASKETS IN LIEU OF CAULKED JOINTS IF APPROVED BY THE LOCAL CODES AND ORDINANCES. ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING IF APPROVED BY THE LOCAL CODES, SCHEDULE 40 PVC PIPE WITH DWV FITTINGS SERVICES AS REQUIRED BY LOCAL BUILDING CODES. CONTRACTOR SHALL HAVE OCAL BUILDING OFFICE REVIEW EACH PIECE OF EQUIPMENT WHEN INSTALLED

PLATED FLAT ACCESS COVER PLATES.

MAY BE USED FOR THE WASTE AND VENT SYSTEM. PVC PIPE AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL CODES. ENCASEMENT OF PVC PIPES WITHIN RATED SHAFTS SHALL BE THE COST OF THIS CONTRACTOR. SCHEDULE 40 PVC SHALL NOT BE INSTALLED WITHIN A PLENUM. ABS AND FOAM CORE PVC ARE NOT ACCEPTABLE MATERIALS

SDR 35 IS NOT ACCEPTABLE FOR UNDER BUILDING USE.

ALL CLEANOUTS IN FLOORS TO BE JOSAM #8360 OR EQUAL. ADJUSTABLE

COVER WITH LETTERS C.O. CAST IN TOP AND CONCEALED BRASS PLUG.

CLEANOUTS SHALL BE INSTALLED IN BASE OF EACH STACK. CONCEALED

CLEANOUTS SHALL HAVE JOSAM #8600 OR EQUAL. CAST BRASS CHROMIUM

CLEANOUT WITH BODY TO MATCH THE PIPING MATERIAL. CAST BRASS SCORIATED

FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD F ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REPAIR ÒR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE O EACH VENT FLASHING SHALL BE MADE WATER-TIGHT WITH THE ROOF BY PROPER IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR WATER PROOF FLASHING. THER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE 35. WASTE, VENT AND WATER CONNECTIONS

THE MINIMUM SIZE OF WASTE, VENT, AND WATER CONNECTION TO THE INDIVIDUAL FIXTURES SHALL BE AS SHOWN ON DRAWINGS.

> WHERE FIXTURES ARE GROUPED PIPES SHALL BE INCREASED IN PROPORTION: IN ALL CASES THE SIZE ARRANGEMENTS AND CONNECTIONS OF WATER AND VENT PIPING SHALL NOT BE LESS THAN SIZE OF OPENINGS SPECIFIED FOR FIXTURES ND APPEARING IN FIXTURE LIST. NO WATER PIPE LESS THAN 1/2" SHALL BE INSTALLED IN CONCEALED PLACES SUCH AS IN PARTITIONS OR WALLS ETC

36. PLUMBING FIXTURES AND TRIM

FLAME SPREAD 25

PLUMBING FIXTURES SHALL BE FURNISHED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER WITH PROPER CONNECTIONS TO SUPPLY AND DRAINAGE PIPING, ALL FIXTURES SHALL BE FREE OF FLAWS AND DEFECTS OF ANY SORT IN MATERIAL AND WORKMANSHIP AND SHALL OPERATE PERFECTLY WHEN STALLED IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.

MATERIALS: FIXTURES SHALL BE THE STANDARD PRODUCT OF ONE OF THE

MANUFACTURER'S LISTED IN THE PLUMBING FIXTURE SCHEDULE, OR ANY EQUAL UNIT APPROVED BY THE ENGINEER. NSTALLATION: THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE PLUMBING FIXTURES AND ACCESSORIES DURING CONSTRUCTION. HE SHALL REPLACE AT HIS EXPENSE ANY MATERIAL THAT IS MARRED, SCRATCHED,

EFACED AND/OR BROKEN. FIXTURES SHALL BE COVERED WITH BUILDING PAPER AND WOODEN CRATES DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE EXACT AND PROVIDE ROUGH-IN LOCATIONS WITH FIELD CONDITIONS AND PLANS PRIOR TO ANY WORK. CONTRACTOR SHALL CONNECT ALL FIXTURES TO THE PLUMBING SYSTEM. ALL FIXTURES TO BE

ALL FIXTURES INSTALLED TO DIMENSIONS SHOWN ON THE DRAWINGS. ALL NATER CLOSETS SHALL HAVE CAULKING BETWEEN THE FLOOR AND UNDERSIDE OF THE WATER CLOSET PLUMBING EQUIPMENT: (REFER TO SCHEDULE ON THE DRAWINGS)

STALLED TO DIMENSIONS WITH CHROME-PLATED SUPPLIES WITH STOPS

ALL INSULATION SHALL HAVE COMPOSITE (INSULATION, JACKET OR FACINGS AND ADHESIVE USED TO ADHERE THE FACING OR JACKET TO THE INSULATION) FIRE ND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA 225 UL 723 NOT EXCEEDING:

ALL ACCESSORIES SUCH AS ADHESIVES, MASTICS, CEMENTS, TAPES AND CLOTH FOR FITTINGS SHALL HAVE THE SAME COMPONENTS RATINGS AS LISTED ABOVE INSULATION SHALL BE APPLIED ON CLEAN, DRY SURFACES AND AFTER INSPECTION AND RELEASE FOR INSULATION APPLICATION. ALL INSULATION

SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND SLEEVES.

INSULATION ON ALL COLD SURFACES WHERE VAPOR BARRIER JACKETS ARE USED, WILL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL, INCLUDING ALL FITTINGS AND VALVES ALL INSULATION TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S. FITTINGS SHALL BE FINISHED WITH 1/4" COAT OF INSULATING CEMENT AND CANVAS.

INSULATION SCHEDULE DOMESTIC COLD WATER - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50) DOMESTIC HOT WATER - 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DOMESTIC HOT WATER RETURN- 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50) EXPOSED STORM WASTE AND SANITARY WASTE - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50)

ALL MATERIALS USED SHALL COMPLY WITH SECTIONS 1712 AND 1713 OF THE UBC. NATURAL GAS PIPING SYSTEM ALL PIPING FROM GAS METER TO GAS-FIRED EQUIPMENT SHALL BE FURNISHED

ALL GAS PIPING TO BE IN ACCORDANCE WITH LOCAL CODES, NEPA-54, IEGC AND UPC ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-54, LOCAL

ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK OR GALVANIZED STEEL WITH BLACK OR GALVANIZED WITH MALLEABLE SCREWED FITTINGS. USE TEFLON TAPE ON ALL THREADED JOINTS FITTINGS LARGER THAN TWO INCHES (2") SHALL BE WELDED. PROVIDE UNIONS AND GAS SHUT-OFF VALVES AT EACH PIECE OF GAS FIRED EQUIPMENT OR APPLIANCE. ANY GAS PIPING CONCEALED IN CHASES AND/OR INACCESSIBLE CEILING IS TO BE WELDED WITH WELDED FITTINGS.

FLEXIBLE CSST PIPING MATERIAL IS AN ACEPTABLE ALTERNATE ONLY IF ALLOWED BY LOCAL AHJ AND RESIZED PER MANUFACTURERS SIZING GUIDELINES. ALL FLEXIBLE GAS PIPING SYSTEM COMPONENTS MUST BE A.1 CSA INTERNATIONAL CERTIFIED CORRUGATED STAINLESS STEEL TUBING (CSST) FLEXIBLE GAS PIPING WITH MECHANICAL ATTACHMENT AUTOFLARE®

TTINGS THAT CONFORM TO THE LATEST ANSI STANDARDS FOR SAFE

PERFORMANCE ANSI I C-1 /CSA 6 26 A.2 UNDERWRITERS LABORATORIES CLASSIFICATION LISTED FOR THRU PENETRATION FIRE STOP REQUIREMENTS RATINGS TO INCLUDE ONE, TWO, THREE AND FOLIR HOLIR TESTS A.3 LISTED WITH FM (FACTORY MUTUAL) REQUIREMENTS FOR FLAMMABLE GAS PIPING SYSTEMS. FOR SEISMIC RESISTANCE. A.4 TUBING SHALL BE TESTED AND LISTED IN ACCORDANCE WITH ICC LC-1024. FOR RESISTANCE TO ARCING FROM TRANSIENT ENERGY

STORM PIPING SYSTEM ALL STORM PIPING SHALL BE OF THE FOLLOWING MATERIALS

A. HUB-AND-SPIGOT, CAST-IRON PIPE AND FITTINGS: ASTM A 74, SERVICE GASKETS: ASTM C 564, RUBBER B. HUBLESS CAST-IRON PIPE AND FITTINGS: ASTM A 888 OR CISPI 301. SHIELDED COUPLINGS: ASTM C 1277 ASSEMBLY OF METAL SHIELD OR

HOUSING, CORROSION-RESISTANT FASTENERS, AND RUBBER SLEEVE WITH CEILING OR CLOSE AS POSSIBLE TO THE CONSTRUCTION ABOVE WHERE THERE IS INTEGRAL, CENTER PIPE STOP. STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS: CISPI 310. WITH STAINLESS-STEEL CORRUGATED SHIELD; STAINLESS-STEE BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE. b. HEAVY-DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS: WITH

STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND

TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

SOLID-WALL PVC PIPE: ASTM D 2665, SOLID-WALL DRAIN, WASTE, AND VENT PVC SOCKET FITTINGS: ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE, AND SOLVENT CEMENT AND ADHESIVE PRIMER a. USE PVC SOLVENT CEMENT THAT HAS A VOC CONTENT OF 510 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA

b. USE ADHESIVE PRIMER THAT HAS A VOC CONTENT OF 550 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA

INSTALL STORM DRAINAGE PIPING AT THE FOLLOWING MINIMUM SLOPES, UNLESS OTHERWISE INDICATED: BUILDING STORM DRAIN: 1 PERCENT DOWNWARD IN DIRECTION OF FLOW PIPING NPS 3 AND SMALLER; 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4 AND LARGER. HORIZONTAL STORM-DRAINAGE PIPING: 2 PERCENT DOWNWARD IN

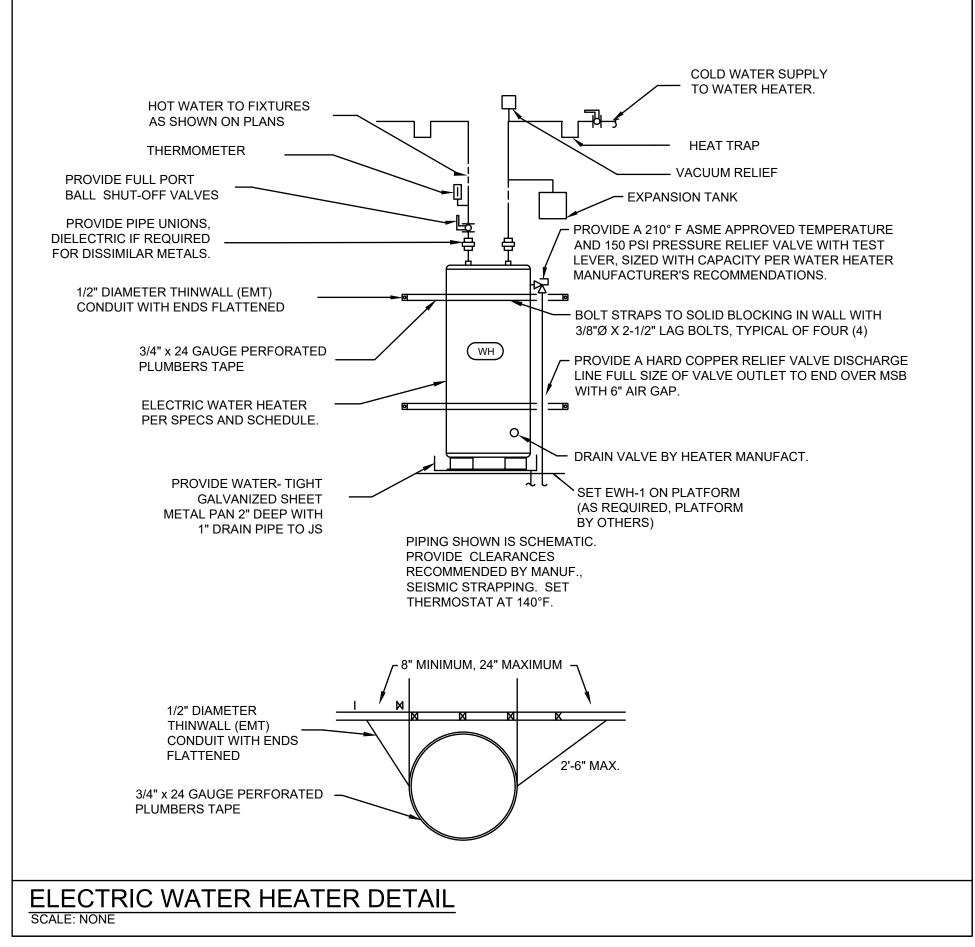
DIRECTION OF FLOW A. SLEEVES ARE NOT REQUIRED FOR CAST-IRON SOIL PIPING PASSING THROUGH CONCRETE SLABS-ON-GRADE IF SLAB IS WITHOUT

TO ASTM D 2321.

MEMBRANE WATERPROOFING INSTALL PVC STORM DRAINAGE PIPING ACCORDING TO ASTM D 2665 INSTALL UNDERGROUND PVC STORM DRAINAGE PIPING ACCORDING

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION. STORM PIPING COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING

THE MINIMUM WORKING PRESSURE OF 10-FOOT HEAD OF WATER, UNLESS OTHERWISE



STATE OF MISSOURI MICHAEL L. PARSON **GOVERNOR** 

CERTIFICATE OF AUTHORITY NO. 001498





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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION:	

PROJECT # X2319-01

SITE#

DAIL.	
ISSUEDATE:	
CAD DWG FILE:	
DRAWN BY:	JP
CHECKED BY:	$\overline{\text{NH}}$

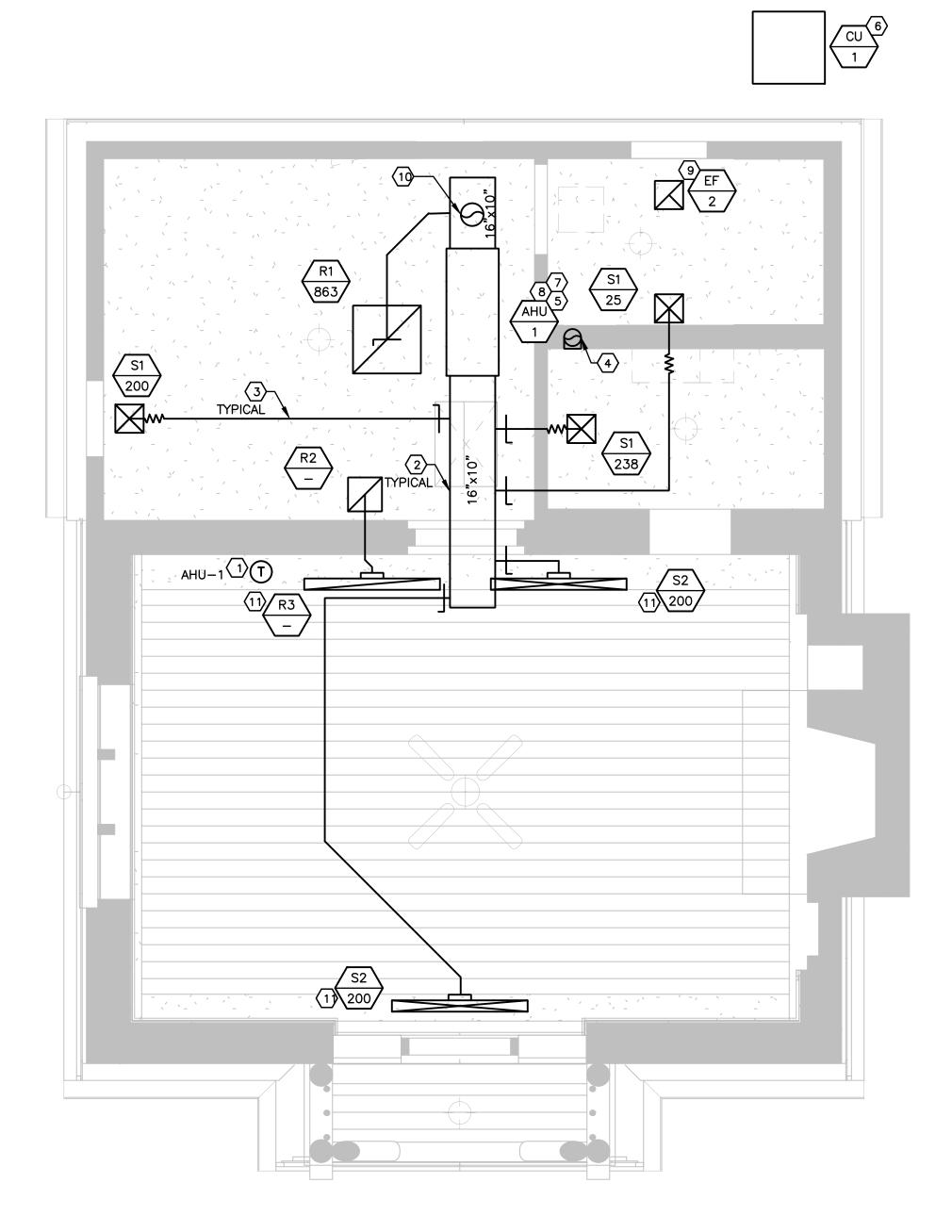
SHEET TITLE:

DESIGNED BY:

REVISION

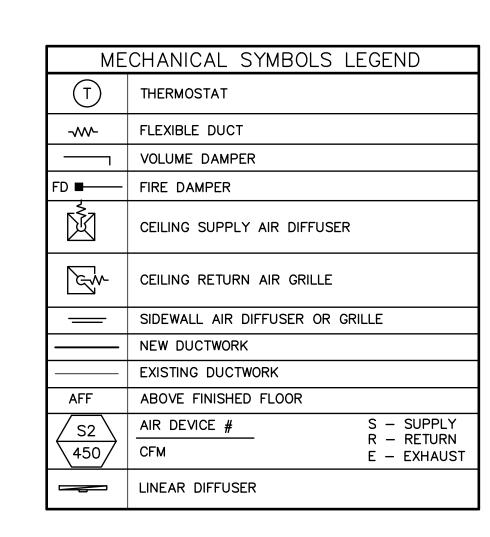
PLUMBING SPECIFICATIONS AND DETAILS

SHEET NUMBER:



MECHANICAL PLAN CABIN 1, 2, 3, 4 AND 14

SCALE: 3/8" = 1'-0"



#### MECHANICAL KEYED NOTES

- PROVIDE THERMOSTATS AND RELATED WIRING TO CONTROL AIR HANDLER UNIT. MOUNT 48" A.F.F. PROVIDE LOCKABLE COVER.
- PROVIDE GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE CLEAR, INSIDE DIMENSIONS. SEE DUCT WORK INSULATION SCHEDULE ON M300.
- (3) MAXIMUM FIVE (5) FEET OF FLEXIBLE DUCT. ONLY ONE 90° ELBOW ALLOWED IN FLEXIBLE DUCTWORK.
- PROVIDE NEW EXHAUST DUCT FOR NEW MICROWAVE OVER RANGE OVEN. TERMINATE WITH ROOF CAP WHICH HAS A BUILT IN DAMPER. REFER TO MICROWAVE INSTALLATION MANUAL FOR DUCT SIZING.
- 5 PROVIDE AIR HANDLING UNIT (AHU-1). VERIFY EXACT LOCATION, CAPACITY AND OPERATION IN FIELD.
- 6 PROVIDE CONDENSING UNIT (CU-1). VERIFY EXACT LOCATION, CAPACITY AND OPERATION IN FIELD.
- 7 ROUTE 1"Ø CONDENSATE LINE FROM NEW AHU TO TAILPIECE OF LAVATORY.
  AHU DRAINPAN TO HAVE OVERFLOW SWITCH TO DISABLE AHU AND NOTIFY
  TENANT IF CLOGGED.
- 8 ROUTE REFRIGERANT LINES IN FIELD TO REMOTE CONDENSER ON ROOF, INSULATE WITH 1" ARMAFLEX. SIZE AND INSTALL ALL PIPING PER MANUFACTURER'S GUIDELINES FOR TOTAL LENGTH AND EQUIPMENT VERTICAL SEPARATION. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO ANY WORK. CONTACT THE ENGINEER IMMEDIATELY, IF ANY DISCREPANCIES ARE DISCOVERED.
- 9 PROVIDE EXHAUST FAN AS SCHEDULED AND SPECIFIED, (EF-1). PROVIDE AND INSTALL NEW 4" DUCT, EXTEND UP THROUGH ROOF TO NEW ROOF VENT KIT. ENSURE VENT IS MINIMUM 10'-0" FROM FRESH AIR INTAKES FOR BUILDINGS.
- NEW 8" OUTSIDE AIR DUCT, EXTEND UP THROUGH ROOF TO NEW ROOF VENT KIT. ENSURE INTAKE IS MINIMUM 10'-0" FROM EXHAUST.
- LINEAR SLOT DIFFUSERS TO BE INSTALLED AT INTERSECTION OF THE VAULTED CEILING AND FLAT CEILING.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
SAM A. BAKER STATE PARK
RENOVATE CABINS 1-4, 14, & 19
SAM A. BAKER STATE PARK
5580 STATE HIGHWAY 143
PATTERSON, MO

PROJECT#	X2319-01
SITE#	
ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003

C	CABIN #19:	7815218019
R	EVISION:	
	DATE:	
R	EVISION:	
	DATE:	
R	EVISION:	
	DATE:	
I	SSUEDATE:	

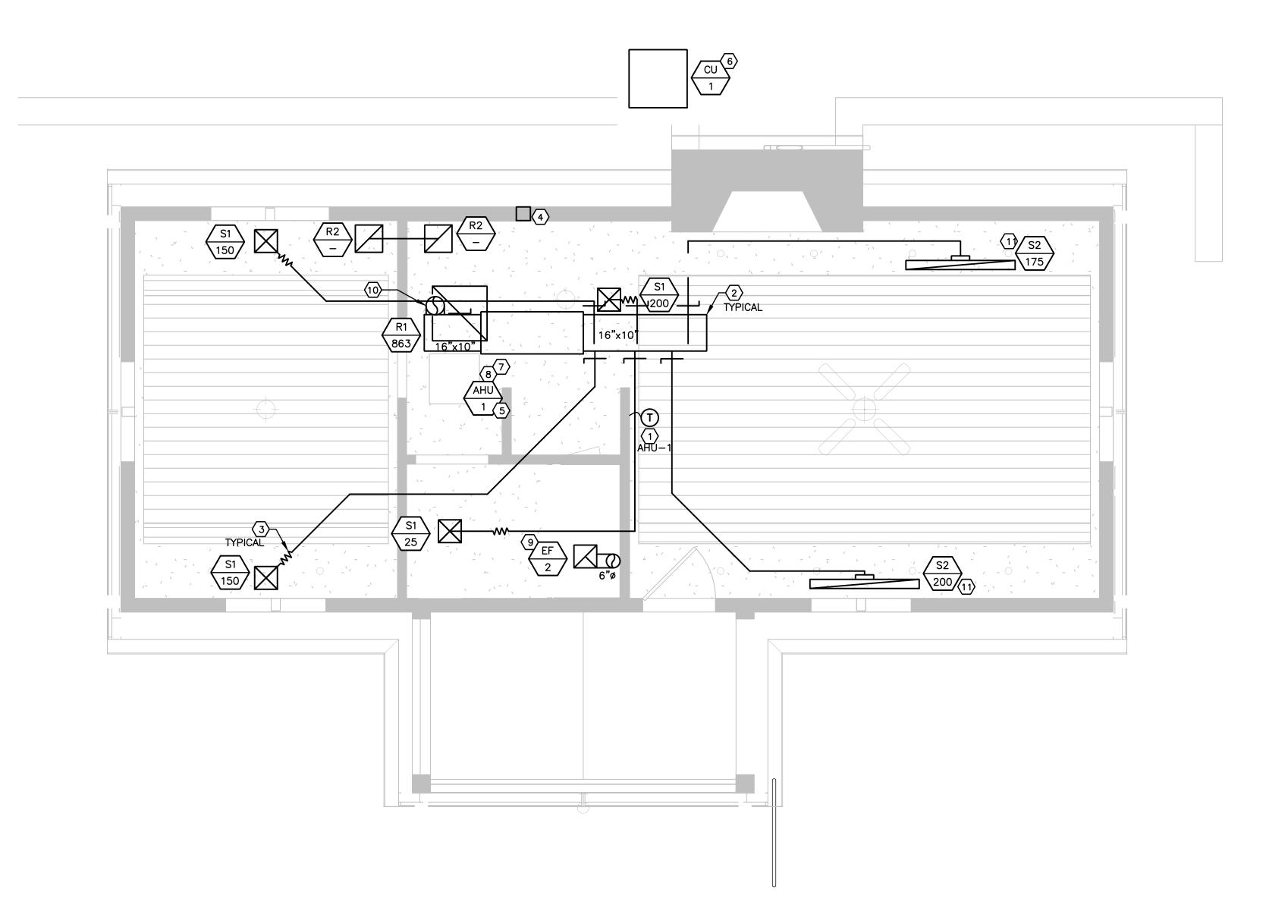
CAD DWG FILE:	
DRAWN BY:	TP
CHECKED BY:	DC
DESIGNED BY:	DC

SHEET TITLE:

MECHANICAL PLANS

SHEET NUMBER:

M-100



MECHANICAL PLAN CABIN 19
SCALE: 3/8" = 1'-0"

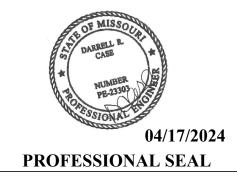
Г	NAC	CHANICAL SYMBOLS LECEND	
	IVI C	CHANICAL SYMBOLS LEGEND	
	T	THERMOSTAT	
	<b>-</b> W-	FLEXIBLE DUCT	
		VOLUME DAMPER	
	FD —	FIRE DAMPER	
	Ď	CEILING SUPPLY AIR DIFFUSER	
	C.W.	CEILING RETURN AIR GRILLE	
		SIDEWALL AIR DIFFUSER OR GRILLE	
		NEW DUCTWORK	
		EXISTING DUCTWORK	
	AFF	ABOVE FINISHED FLOOR	
	S2 450	AIR DEVICE # S — SUPPLY R — RETURN E — EXHAUS	I
		LINEAR DIFFUSER	

#### MECHANICAL KEYED NOTES

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#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







# OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSCTRUCTION

#### DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
SAM A. BAKER STATE PARK
RENOVATE CABINS 1-4, 14, & 19
SAM A. BAKER STATE PARK
5580 STATE HIGHWAY 143
PATTERSON, MO

PROJECT #	X2319-01
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DATE:	
ISSUEDATE:	

CAD DWG FILE:	
DRAWN BY:	TP
CHECKED BY:	DC
DESIGNED BY:	DC

SHEET TITLE:

MECHANICAL PLANS

SHEET NUMBER:

M-200

					AIR	HANDLIN	IG UNIT S	SCHED	ULE							٦
			SUPPLY	O.A.	EXT.	COOLING	COOLI	NG MBI	1	HEATING	SUPPLY	ELECTR	CAL	WEIGH	IT REMARK	
MARK	MANUFACTURER	MODEL NO.	CFM	CFM	SP.	TONS	TTL	_/SEN		KW	FAN HP	MCA/MOCP	V/PH	LBS		3
AHU-1	TRANE	TEM6A0C30	863	180	0.5	2.5	30.0	0/24.0		9.6	1/2	55.0/60.0	230/1	117	1-7	
<ol> <li>VERIF</li> <li>PROVI DAMPI</li> <li>CONTI TURNO FANS.</li> </ol>	R MODEL NO: BA	INFORMATION W RICATED MIXING URE AND HUM VIDE: TWO (2) RIOR TO TESTI	VITH ELECTF G BOX FUL IDITY SENSO CHANGES	RICAL CÓN L SIZE U ORS IN O OF THE F	NTRACTOR NIT R.A. ( OUTDOOR A FILTERS DI	PRIOR TO CONNECTION, AIR DUCT. PFURING CONST	PRDERING. PROVIDE WIROVIDE ALL ATTRUCTION, O	ACCESS NE PRI	ORIES R OR TO T	EQUIRED FOR ESTING AND	R ECONOM BALANCING	ZER OPERATION. S AND ONE AT				
						G UNIT S			ELEC	TRICAL			7_			
MARK	MANUFACTURE	R MO		COOLING TONS	мвн	AMB *F	REF. TYPE.	1404	M00D	VOLT (DUA)	WEIGI					
CU-1	TRANE		3030	2.5	30	95	R410A	MCA 15	моср 25	VOLT/PHA: 230/1	SE LBS 197		$\dashv \Gamma$			
	DE AND INSTALL C		<b>_</b>			L RECTED BY I		ļ		•			ES M	ARK	MAKE	
IN ST	RICT ACCORDANCE DE UNIT WITH LOW	WITH MANUFAC	CTURER'S R	RECOMMEN	IDATIONS.									EF-1	GREEN HECK	SP-
<ol> <li>VERIF</li> <li>PROVI</li> </ol>	Y ELECTRICAL VOLT DE NEW ROOF CUR LL WITH MANUFACT	AGE WITH ELEGING TO THE TRANSPORT OF THE	CTRICAL CO VELVE (12")	ONTRACTO ).	R PRIOR			· · · · · ·				,		<ol> <li>EXTEN</li> <li>INTER</li> </ol>	IG MOUNTED ID DISCHARGE LOCK WITH L SPECIFICATION RIA.	E DUC .IGHT
											4"ø	OR 5"Ø DRYER VI	ENT			

4"ø TO 5"ø TOILET

1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER. 2. WALL CAP BY VENTCRAFT, OR APPROVED EQUAL

EXHAUST DUCT ROUTED TO

A 4"Ø AT THE WALL CAP

		DUCT INSULAT	TON SCHEDULE		
IDENTIFICATION	CONDUIT	USE	INSULATION TYPE & VAPOR BARRIER	THICKNESS	JACKET
FRESH AIR	ROUND / OVAL	UP TO THE MIXING BOX / COIL	MICROLITE 75 TYPE C/W VAPOR BARRIER FSK	2"	NONE
CONCEALED	RECTANGULAR	UP TO THE MIXING BOX / COIL	SPIN GLAS MODEL 813 C/W VAPOR BARRIER FSK	2"	NONE
EXHAUST CONCEALED	ROUND / OVAL	10'-0" FROM OUTSIDE	MICROLITE 75 TYPE C/W VAPOR BARRIER FSK	2"	NONE
	RECTANGULAR	10'-0" FROM OUTSIDE	SPIN GLAS MODEL 813 C/W VAPOR BARRIER FSK	2"	NONE
CONCEALED	ROUND / OVAL	FULL LENGTH INCLUDING PLENUM BOX	MICROLITE 75 TYPE C/W VAPOR BARRIER FSK	2"	NONE
SUPPLY	RECTANGULAR	FULL LENGTH INCLUDING PLENUM BOX	SPIN GLAS MODEL 813 C/W VAPOR BARRIER FSK	2"	NONE
RETURN CONCEALED/EXPOSED	RECTANGULAR	FULL LENGTH INCLUDING PLENUM BOX	SPIN GLAS MODEL 813 C/W VAPOR BARRIER FSK	2"	N/A
NOTES: CONCEALED : DUCTS ABOVE O EXPOSED : ELEMENTS NOT CO		ALLS OR FLOOR.			

	ISER NECK SCHEDULE
NECK SIZE	СҒМ
6"ø	0 - 100
8"ø	110 – 250
10"ø	260 - 400
12 <b>"</b> ø	410 - 600
14"ø	610 — 1000
16"ø	1010 — 1400

			F.								
			ESP	P MOTOR							GENERAL NOTE LISTED MANUFACTURERS ARE BASIS OF DESIGN AND OT
MAKE	MODEL	EL CFM IN.W.G. SONES DRIVE R				RPM	HP	V/PH/HZ	LBS.	REMARKS	APPROVED MANUFACTURERS ARE LISTED IN THE
REEN HECK	SP-LP0511-1	50	0.5	-	DIRECT	685	12 W	115/1/60	8	1,2,3*	

INTEGRAL GRILLE, DISCONNECT, BACKDRAFT DAMPER AND VIBRATION ISOLATION MOUNTING. ROUGH ROOF. PROVIDE WEATHERPROOF COLLAR, FLASHING, AND ROOF HOOD.

BASIS OF DESIGN. ALTERNATE MANUFACTURERS ARE APPROVED IF THEY MEET THE SPECIFIED

MARK MANUFACTURER MODEL MATL.

AIR DEVICE SCHEDULE

 S2
 TITUS
 FL-10
 ST
 SCHED
 FLANGED
 5'x2.5"
 2,3,4

 R1
 TITUS
 350FLF2
 ST
 SCHED
 FLANGED
 24"x24"
 1,2,3

 R2
 HART&COOLEY
 94
 ST
 SCHED
 FLANGED
 12"x12"
 1,2,3

R3 TITUS FL-10 ST SCHED FLANGED 5'x2.5" 2,3,4

4. PROVIDE AIR DEVICE WITH INSULATED PLENUM BOX AND INLET DAMPER.

S1 HART&COOLEY 621 ST SCHED FLANGED

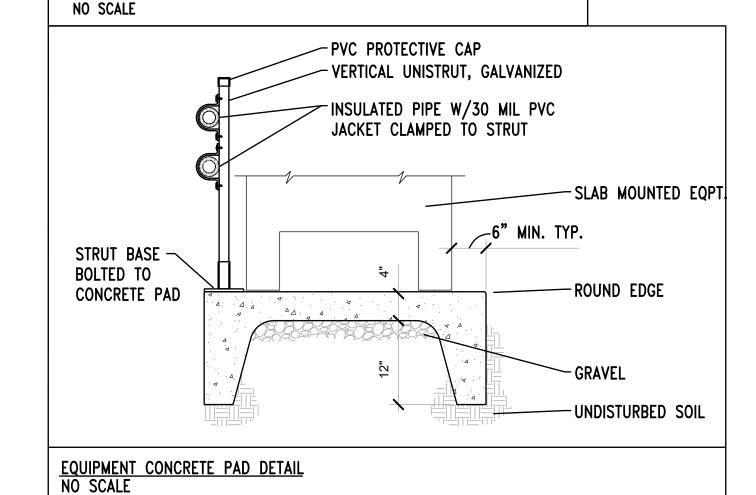
2. TO BE PAINTED AS NOTED ON ARCH SHEETS. 3. SUPPLIED BY AND INSTALLED BY TENANT MC.

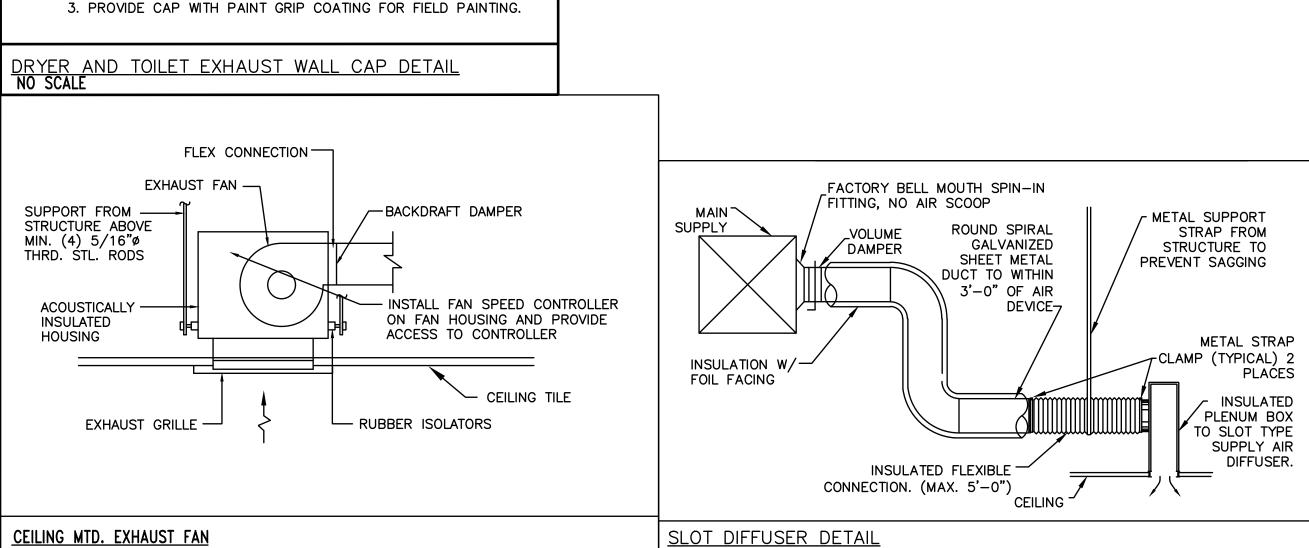
1. BRANCH DUCT SAME DIAMETER AS GRILLE NECK SIZE.

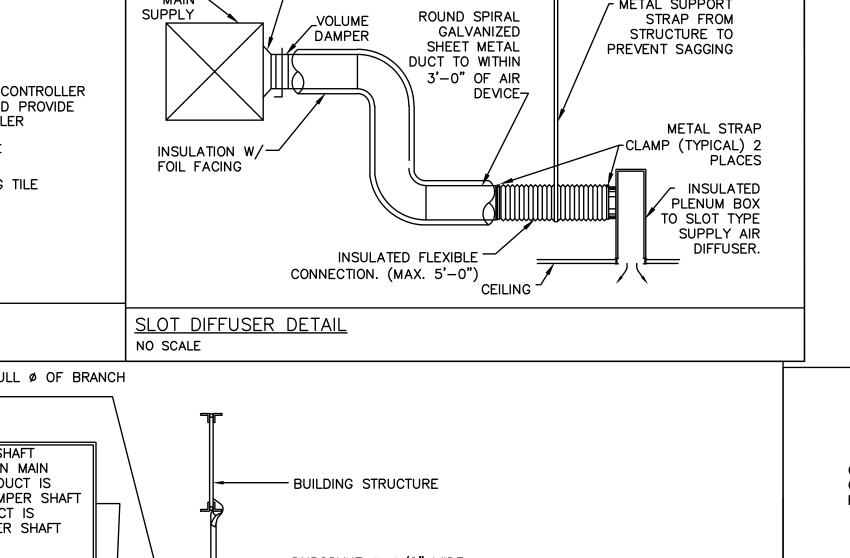
<del></del>
VIBRATION THREADED ROD
AHU
CONDENSATE DRAIN TO NEAREST MOP

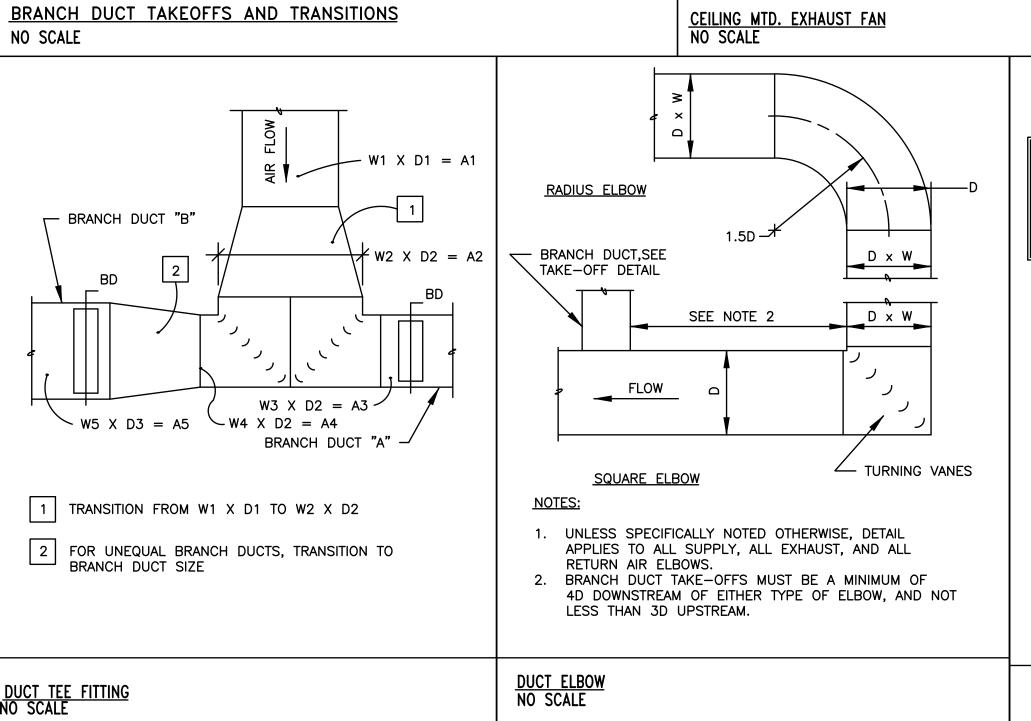
AIR HANDLING UNIT SUPPORT DETAIL

CEILING









**TRANSITIONS** 

1. DETAIL IS APPLICABLE TO SUPPLY

AIR BRANCH DUCT TAKE-OFFS.

TO BRANCH

TRANSITION -TO BRANCH

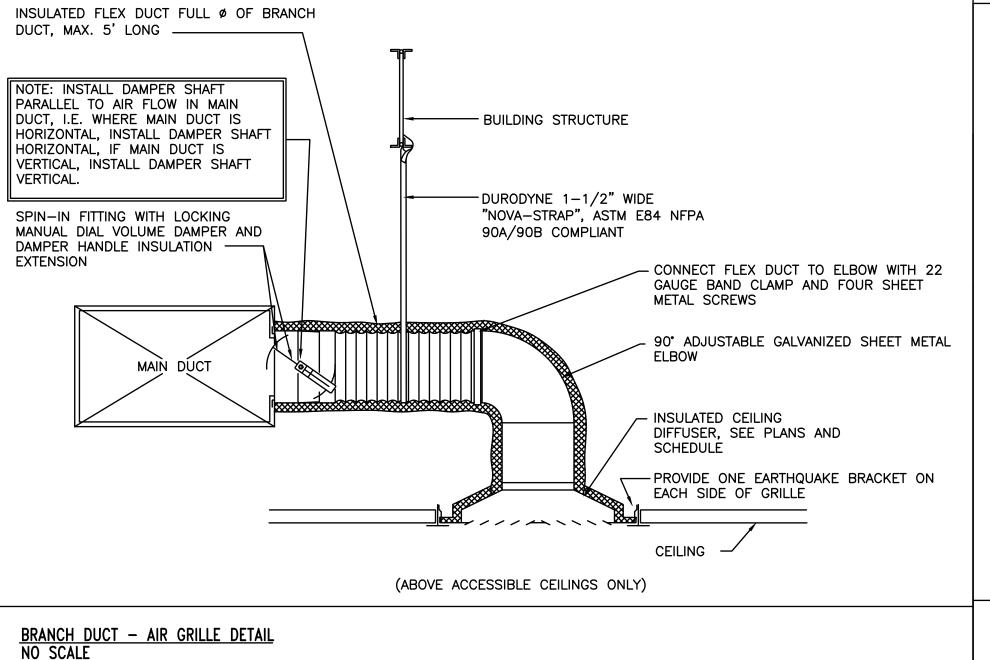
-BRANCH DUCT

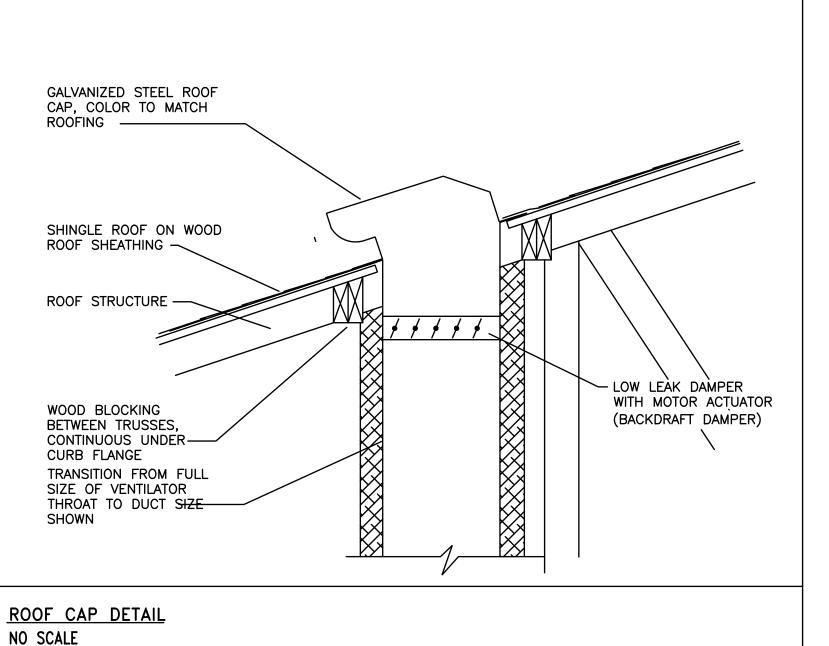
-BRANCH DUCT

FLOW

RADIUS ELBOW

<u>SQUARE VANED</u>





STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 







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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

ASSET#	
CABIN #1:	7815218008
CABIN #2:	7815218007
CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019

PROJECT # X2319-01

SITE#

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
ISSUEDATE:	

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

SHEET TITLE:

**MECHANICAL DETAILS** 

SHEET NUMBER:

#### H. FIXTURE OUTLET BOXES IN/OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX A. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, #12 AWG MINIMUM. B. CONDUCTORS #12 AND #10 AWG SHALL BE SOLID; #8 AWG AND LARGER SHALL BE NEW OUTLET BOXES INSTALLED WITHIN NEW OR EXISTING STUD WALL CONSTRUCTION STRANDED. SHALL BE MOUNTED TO A STUD OR MOUNTED IN A BRACKET THAT SPANS STUD-TO-STUD, CADDY TSGB BRACKET OR APPROVED EQUAL. C. THE USE OF ALUMINUM CONDUCTORS IS NOT ACCEPTABLE J. ACCEPTABLE MANUFACTURERS FOR BOXES: APPLETON, STEEL CITY, RACO. D. EXPOSED, INTERIOR FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT. E. FEEDERS INSTALLED CONCEALED IN CEILINGS, WALLS, PARTITIONS: TYPE THHN-THWN, PANELBOARDS SINGLE CONDUCTORS IN CONDUIT. . FEEDERS INSTALLED CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE AND FURNISHED WITH BRANCH CIRCUIT BREAKER OVERCURRENT PROTECTIVE DEVICES, UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN PVC CONDUIT. G. EXPOSED, INTERIOR, BRANCH CIRCUITS: TYPE THHN-THWN, SINGLE CONDUCTORS IN ARE NOT ACCEPTABLE FOR USE. BRANCH CIRCUITS CONCEALED IN EXISTING AND NEW CEILINGS, WALLS, AND PARTITIONS TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

K. CLASS 1 CONTROL CIRCUITS: TYPE THHN-THWN, IN CONDUIT.

THOMAS AND BETTS LOCK-TITE FOR #6 AND LARGER.

INDICATED, SPECIFIED AS ACCEPTABLE, OR BOTH.

METHOD 1, WITH GREEN INSULATED GROUNDING CONDUCTOR.

PROPERLY SIZED, AND UL LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS

FOOT "PIGTAIL" AT THE BOX, TAPE THE ENDS OF CONDUCTORS, AND COVER THE BOX.

D. PROPERLY IDENTIFY ALL TERMINAL BLOCKS AND WIRE TERMINALS FOR CONTROL WIRING

APPLICABLE, IN ALL BRANCH CIRCUITS AND FEEDERS, SIZED IN ACCORDANCE WITH NFPA

70 TABLES 250.66 OR 250.122, AS APPLICABLE, UNLESS INDICATED AS LARGER ON THE

A. PROVIDE COLOR CODING SYSTEM AS LISTED BELOW FOR ALL FEEDERS AND BRANCH

C. COLOR CODING FOR CONDUCTORS #8 AWG AND LARGER SHALL BE FIELD APPLIED SELF

A. ALL OUTLET BOXES SHALL BE UL LISTED AND LABELED FOR USE IN THE SPACE THEY

B. SHEET METAL OUTLET AND DEVICE BOXES FOR DRY, INTERIOR APPLICATIONS: COMPLY

EQUAL TO OR GREATER THAN THE RATING OF THE WALL IN WHICH IT IS INSTALLED.

E. OUTLET BOXES SHALL BE 4 INCHES SQUARE BY 2 1/8 INCHES DEEP , EXCEPT FOR 2"

F. OUTLET BOXES FOR VOICE AND DATA DEVICES SHALL BE 4 11/16 INCHES SQUARE BY 2 1/8

G. ALL PULLBOXES SHALL BE CONSTRUCTED OF GALVANIZED STEEL, OF METAL GAUGE AND

PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF CONDUITS

NEMA FB 1, FERROUS ALLOY, TYPE FS OR FD, WITH GASKETED COVER.

PROPOSED IDENTIFYING NUMBERS FOR REVIEW PRIOR TO INSTALLING MARKERS.

G. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 3 PERCENT.

CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD ON PANELS.

CODED THERMOPLASTIC INSULATION OF THE COLORS SPECIFIED HEREIN.

ADHESIVE TAPE OF THE COLOR SPECIFIED HEREIN FOR THE PARTICULAR PHASE.

RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

W. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 3 PERCENT.

ANACONDA, ROME, SOUTHWIRE.

OR BX) IS NOT ACCEPTABLE

LONGER THAN 75 FEET.

WIRE-MESH SAFETY GRIPS.

AND JOINTS AS REQUIRED BY CODE.

TYPE MC CABLE MAY ONLY BE USED

B. FOR VERTICAL DROPS IN STUD WALLS.

D1. HOMERUNS TO PANELBOARDS

D3. WHERE EXPOSED TO DAMAGE

THE LOCAL AHJ, OWNER OR BOTH.

INDICATED AS LARGER ON THE DRAWINGS.

D2. WHERE EXPOSED TO VIEW.

D4. HAZARDOUS LOCATIONS.

D5. WET LOCATIONS.

DRAWINGS

CONDUCTOR COLOR CODING

YFLLOW MARKINGS

OCCUPY AND THE PURPOSE THEY SERVE.

PARTITIONS SHALL BE AT LEAST 1-1/2" DEEP.

AND CONDUCTORS ASSOCIATED WITH THE PULLBOX.

WITH NEMA OS 1 AND UL 514A.

**BOXES AND FITTINGS** 

INCHES DEEP.

EXCEEDING 6' FEE IN UNSUPPORTED LENGTHS.

C. DO NOT USE MC CABLE FOR THE FOLLOWING:

GAGE (AWG - BROWN AND SHARPE).

COPPER PHASE. NEUTRAL AND EQUIPMENT GROUNDING BUS BARS. MAIN CIRCUIT BREAKER OR MAIN LUG ONLY AS NOTED ON THE DRAWINGS. MAIN BUSES AND ' CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, LOAD CENTERS B. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN PANEL SCHEDULES. REFER TO THE BRANCH CIRCUITS CONCEALED BELOW SLABS-ON-GRADE, AND UNDERGROUND:

PANEL SCHEDULES ON THE DRAWINGS FOR ADDITIONAL ACCESSORIES TO BE PROVIDED I. ACCEPTABLE MANUFACTURERS FOR CONDUCTORS: GENERAL CABLE COMPANY, CAROL, C. CIRCUIT BREAKERS SHALL HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY (AIC) OF 22,000 AMPERES FOR 120/208V SYSTEMS.

EXISTING AND NEW PANELS THAT ARE HIGHER THAN THE MINIMUM AIC RATINGS L. CLASS 2 CONTROL CIRCUITS: POWER-LIMITED PLENUM RATED CABLE, CONCEALED IN SPECIFIED HEREIN, PROVIDE CIRCUIT BREAKERS IN THE PANELS THAT HAVE AIC RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT AT THE PANEL AS DETERMINED BY THE B. FRACTIONAL HORSEPOWER MANUAL CONTROLLERS: "QUICK-MAKE, QUICK-BREAK" M. THE USE OF NON-METALLIC-SHEATHED CABLE (TYPE NM) AND ARMORED CABLE (TYPE AC

E. PROVIDE NEMA 1 ENCLOSURES FOR INTERIOR PANELS. N. WIRE CONNECTORS SHALL BE EQUAL TO SCOTCH LOCK FOR #8 AWG AND SMALLER, F. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS

SHALL BE KEYED ALIKE, WITH TWO KEYS SUPPLIED WITH EACH LOCK. O. PROVIDE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS HAVING A CONDUCTOR LENGTH G. CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH DUTY. H. CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED.

P. SIZE OF CONDUCTORS AND CABLES INDICATED OR SPECIFIED ARE IN AMERICAN WIRE I. ALL LUGS SHALL BE OF THE SOLDERLESS TYPE AND RATED AT A MINIMUM OF 75°C. Q. TYPE MC CABLE: 600V, UNJACKETED: ANSI E119 AND E814, UL STANDARDS 44 OR 83 (AS J. PROVIDE NEW CIRCUIT DIRECTORIES WITHIN NEW AND EXISTING PANELS TO REFLECT THE APPLICABLE), AND 1569, NFPA 70 ARTICLE 330; ALUMINUM OR GALVANIZED STEEL WORK OF THIS CONTRACT. DIRECTORY SHALL BE TYPEWRITTEN OR COMPUTER INTERLOCKED ARMOR; THHN- OR XHHW-INSULATED CONDUCTORS; COLOR CODE: ICEA GENERATED. HANDWRITTEN CIRCUIT DIRECTORIES ARE NOT ACCEPTABLE.

R. INSTALL ALL WIRING IN APPROVED RACEWAY AND ENCLOSURES, EXCEPT WHERE WITHIN THE CIRCUIT DIRECTORIES. SPECIFIED OR INDICATED, FOR LOW-VOLTAGE WIRING OR, WHERE TYPE MC CABLE IS PANEL CIRCUITS SHALL BE CONFIGURED SUCH THAT THE LOAD IS DISTRUBUTED EVENLY ACROSS ALL THREE PHASES TO WITHIN 10% IN ACCORDANCE WITH N.E.C. . SUPPORT ALL CONDUCTORS AND CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA-70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR

M. ALL NEW AND EXISTING PANELBOARDS SHALL BE LABELED TO IDENTIFY THE AMOUNT OF C. CARTRIDGE FUSE APPLICATIONS: FAULT CURRENT AVAILABLE AT THE PANEL AS DETERMINED BY THE POWER SYSTEM . INSTALL ALL CONDUCTORS AND CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR STUDY TO BE PERFORMED. LABEL SHALL BE MACHINE PRINTED, BLACK TEXT ON CLEAR, SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES AND ENCLOSURES WITH APPROVED SELF ADHESIVE TAPE. INSTALL LABEL ADJACENT TO PANELBOARDS ENGRAVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS AND TERMINAL BLOCKS FOR CONTROL WIRING, AND KEEP TO THE MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS,

ALL NEW AND EXISTING PANELBOARDS SHALL BE LABELED TO IDENTIFY THE ARC FLASH HAZARD CHARACTERISTICS AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY J. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED, TO BE PERFORMED.

INVOLVED, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S O. ALL "SPARE" CIRCUIT BREAKERS SHALL BE SET TO THE "OFF" POSITION. P. PROVIDE THREE (3) EMPTY 1 INCH CONDUITS FROM EACH FLUSH MOUNTED PANEL V. WHERE WIRING IS INDICATED AS INSTALLED, BUT THE CONNECTION IS INDICATED

STUBBED UP TO ABOVE ACCESSIBLE CEILING. "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE A MINIMUM OF 3' Q. ACCEPTABLE MANUFACTURERS FOR PANELBOARDS BY SCHNEIDER, ABB, SIEMENS OF

R. BASIS OF DESIGN PRODUCT: SCHNEIDER TYPE NQOD WITH TYOE QO-VH (22,000 AIC) BOLT

A. IN LIEU OF FLEXIBLE CONDUIT AND WIRING FROM LIGHT FIXTURES IN ACCESSIBLE SWITCHES CEILINGS TO JUNCTION BOXES (ATTACHED TO BUILDING STRUCTURE) ABOVE THE A. TOGGLE SWITCHES SHALL BE SINGLE POLE, 3-WAY OR 4-WAY AS NOTED ON THE CEILING. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING DRAWINGS, 20 AMPERES, 120/277 VOLT AC TYPE, SPECIFICATION GRADE WITH SCREW EACH LIGHT FIXTURE WITHIN A 5' FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT TERMINALS. HUBBELL 1221-X, 1223-X OR 1224-X OR APPROVED EQUIVALENT BY ONE OF E. THE CONTRACTOR SHALL PROVIDE LIGHTING CONTROL DEVICES (DIMMERS) THA ARE 1. FINISH COLOR; GRAY. THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

B. TOGGLE SWITCHES SHALL BE MOUNTED AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE LIGHTING CONTROLS

C. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

D. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES: LEGRAND, LEVITON.

D6. WHEN RESTRICTED OTHERWISE ABOVE, AND WHEN SPECIFICALLY DISALLOWED BY RECEPTACLES A. RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE, NEMA 5-20R WITH SCREW TERMINALS. HUBBELL 5362-W OR APPROVED EQUAL BY ONE OF THE

B. PROVIDE A PLYWOOD BACKBOARD FOR TERMINATION OF TELEPHONE SERVICE AND ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

WITH VINYL STICK-ON MARKERS OR EQUIVALENT. PROVIDE ENGINEER WITH A LIST OF B. GFI RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE, FEED THROUGH TYPE CAPABLE OF PROTECTING DOWNSTREAM RECEPTACLES ON A SINGLE PROVIDE AN EQUIPMENT-GROUNDING CONDUCTOR, OR BONDING JUMPER, AS CIRCUIT, SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMP TRIP LEVEL, APPLICABLE, IN ALL FEEDER AND NON-LIGHTING BRANCH CIRCUITS, SIZED IN NEMA 5-20R WITH SCREW TERMINALS. HUBBELL GF5362-X OR APPREOVED EQUAL BY ACCORDANCE WITH NFPA 70 TABLES 250.66 OR 250.122. AS APPLICABLE, UNLESS ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

PROVIDE AN EQUIPMENT-GROUNDING CONDUCTOR, OR BONDING JUMPER, AS C. ISOLATED GROUND RECEPTACLES SHALL BE ORANGE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE, NEMA 5-20R WITH SCREW TERMINALS. HUBBELL IG-5362-W OR APPREOVED EQUAL BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

D. PROVIDE SPECIAL PURPOSE RECEPTACLES HAVING NEMA CONFIGURATIONS THAT MATE AND MATCH THE NEMA PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT TO BE

CONNECTED. E. COVER PLATES FOR EXTERIOR RECEPTACLES SHALL BE RATED FOR "WEATHERPROOF

F. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

B. COLOR CODING FOR CONDUCTOR #12 AWG THROUGH #6 AWG SHALL CONSIST OF COLOR G. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES AND RECEPTACLES: LEGRAND, LEVITON.

#### **COVER PLATES FOR TOGGLE SWITCHES AND RECEPTACLES**

LIGHTING CONTROL - TOP OF DEVICE 48" AFF

D. 120/208V: PHASE A--BLACK, PHASE B--RED, PHASE C--BLUE, NEUTRAL--WHITE, A. COVER PLATES WITHIN NON-FOOD SERVICE AREAS SHALL BE NYLON, OF CONFIGURATION TO MATCH THE WIRING DEVICE. EQUIPMENT GROUND--GREEN, ISOLATED GROUND--GREEN WITH DISTINCTIVE WHITE OR B. COVER PLATES WITHIN THE FOOD SERVICE AREA SHALL BE STAINLESS STEEL WTH STAINLESS STEEL HARDWARE, UNLESS OTHERWISE NOTED.

> C. CONFIGURATION AND COLOR OF COVER PLATE SHALL MATCH THAT OF THE WIRNG DEVICE THAT THE PLATE WILL BE INSTALLED ON.

D. COVER PLATE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

E. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR COVER PLATES: LEGRAND, LEVITON.

## C. CAST-METAL OUTLET AND DEVICE BOXES FOR EXTERIOR APPLICATIONS: COMPLY WITH MOUNTING HEIGHTS FOR ELECTRICAL DEVICES AND EQUIPMENT

D. OUTLET BOXES INSTALLED WITHIN FIRE RATED ASSEMBLIES SHALL HAVE A FIRE RATING A. DEVICES AND EQUIPMENT SHALL BE INSTALLED AT THE MOUNTING HEIGHTS NOTED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY APPLICABLE I. REFER TO DETAILS ON MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TOGGLE SWITCHES, WALL SWITCH OCCUPANCY SENSORS AND DIMMERS FOR TESTING

2. CONVENIENCE RECEPTACLES -TOP OF DEVICE 18" AFF

APPROVED FOOD SERVICE SHOP DRAWINGS.

5. TELEPHONE AND DATA OUTLETS - TOP OF DEVICE 18" AFF OR AS REQUIRED BY THE

7. PANELBOARDS - TOP OF ENCLOSURE 72" AFF

6. DISCONNECT SWITCHES - TOP OF ENCLOSURE 66" AFF

#### **DISCONNECT SWITCHES**

A. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, UL LISTED AND LABELED, EQUIPPED WITH A LUG FOR TERMINATION OF THE EQUIPMENT GROUNDING CONDUCTOR.

A. PANELBOARDS SHALL BE LIGHTING AND APPLIANCE TYPE, DEAD FRONT, SAFETY TYPE, B. DISCONNECT SWITCHES SHALL HAVE NEMA 1 ENCLOSURES FOR DRY, INDOOR OPERATION AND MAINTENANCE MANUALS APPLICATIONS; NEMA 3R ENCLOSURES FOR OUTDOOR OR WET LOCATION APPLICATIONS.

> DISCONNECT SWITCHES INSTALLED EXPOSED IN FOOR SERVICE AREAS SHALL BE NEMA 4X D. ALL DISCONNECT SWITCHES SHALL BE EQUIPPED WITH AN ENGRAVED NAMEPLATE TO IDENTIFY THE SERVING PANEL, CIRCUIT NUMBERS AND THE LOAD SERVED BY THE

ACCEPTABLE MANUFACTURERS FOR DISCONNECT SWITCHES: SCHNEIDER, ABB, SIEMENS OR EATON.

#### MOTOR CONTROLLERS

CONFIGURATION: NON-REVERSING.

D. WHERE THE POWER SYSTEM STUDY IDENTIFIES AVAILABLE FAULT CURRENT VALUES AT A. PROVIDE ENCLOSED MOTOR CONTROLLERS AS SPECIFIED HEREIN FOR CONTROL OF A. PREPARE AND SUBMIT OPERATING INSTRUCTIONS AND PROVIDE ON-SITE TRAINING OF MOTORS RATED FOR 600 VOLTS AND LESS.

> TOGGLE OR PUSH-BUTTON ACTION; PILOT LIGHT TO INDICATE "MOTOR RUNNING", WARRANTY MARKED TO SHOW WHETHER UNIT IS OFF, ON, OR TRIPPED.

OVERLOAD RELAYS: INVERSE-TIME-CURRENT CHARACTERISTICS; NEMA ICS 2, CLASS 10 TRIPPING CHARACTERISTICS; HEATERS MATCHED TO NAMEPLATE

FULL-LOAD CURRENT OF ACTUAL PROTECTED MOTOR; EXTERNAL RESET PUSH 3. FLUSH MOUNTED WITHIN FINISHED SPACES; SURFACE MOUNTED WITHIN

UNFINISHED SPACES. 4. ACCEPTABLE MANUFACTURERS: SCHNEIDER, ABB, SIEMENS, EATON.

K. UTILIZE FINAL, OWNER ASSIGNED ROOM NAMES AND NUMBERS TO IDENTIFY SPACES A. PROVIDE CARTRIDGE FUSES RATED FOR 250 V AC AND 600 V AC AND LESS FOR USE AS VOLTAGE RATING AS NOTED ON DRAWINGS SPECIFIED HEREIN. B. SOUND LEVEL SHALL BE LOW. B. COORDINATE FUSE RATINGS WITH UTILIZATION EQUIPMENT NAMEPLATE LIMITATIONS

OF MAXIMUM FUSE SIZE AND WITH SYSTEM SHORT-CIRCUIT CURRENT LEVELS.

1. FEEDERS, UP TO AND INCLUDING 600 AMPS: CLASS RK1, BUSSMANN LPN-RK-SP FOR 250 VOLTS, BUSSMANN LPS-RK-SP FOR 600 VOLTS.

3. BASIS OF DESIGN FOR FUSES SHALL BE BUSSMANN. ADDITIONAL ACCEPTABLE F. CORES: ELECTRICAL GRADE, NON-AGING SILICON STEEL WITH HIGH PERMEABILITY AND

## MANUFACTURERS FOR SPECIFIED FUSES SHALL BE LITTLEFUSE AND MERSEN.

A. ALL LIGHTING FIXTURES AND LIGHT SOURCES SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LIGHT SOURCES AS H. ENCLOSURE: VENTILATED. INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW, PROVIDE LIGHTING FIXTURES

COMPLETE WITH HANGERS, PLASTER FRAMES, AND ALL OTHER NECESSARY ACCESSORIES

C. LED DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT.

D. THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMER

EQUAL

COMPATIBLE WITH LED DRIVER BEING PROVIDED WITH THE FIXTURE.

DRAWINGS. VERIFY ALL DOOR SWINGS PRIOR TO INSTALLATION OF OUTLET BOXES FOR A. TIME SWITCHES, PHOTOCELLS AND CONTACTORS SHALL BE AS DETAILED ON DRAWINGS. B. WALL SWITCH OCCUPANCY SENSORS SHALL BE WATT STOPPER WS-250 OR APPROVED

## **ROUGH-IN SYSTEM FOR VOICE AND DATA**

A. PROVIDE A ROUGH-IN SYSTEM AS SPECIFIED HEREIN FOR SERVICE TO THE OWNER'S VOICE AND DATA NETWORK. B. FIRE ALARM SYSTEM WORK SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS A

DISTRIBUTION COMPONENTS. PLYWOOD BACKBOARD SHALL BE 2' X 3' X 3/4", FIRE , RATED, PAINTED WITH TWO (2) COATS OF LIGHT GRAY ENAMEL PAINT. MASK FIRE RATED ` LABEL TO PREVENT THE LABEL FROM BEING PAINTED OVER.

. OUTLET BOXES FOR TELEPHONE AND DATA DEVICES SHALL CONSIST OF 4 11/16 IN SQUARE BY 2 1/8 INCH DEEP OUTLET BOXES WITH SINGLE DEVICE COVER.

). PROVIDE A 3" EMPTY CONDUIT WITH PULLSTRING FROM THE WALL MOUNTED PLYWOOD TELEPHONE TERMINAL BOARD IN THE TENANT SPACE TO THE LANDLORDS

TELEPHONE DISTRIBUTION OR POINT OF SERVICE DELIVERY. PROVIDE A NYLON BUSHING E ON EACH END OF CONDUIT FOR CABLE PROTECTION.

ROUGH-IN FOR WIRING DROPS TO WALL MOUNTED VOICE AND DATA DEVICES SHALL BE INSTALLED WITHIN EMT CONDUIT, 1". PROVIDE A CONDUIT STUB FROM THE DEVICE BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE A PLENUM RATED NYLON BUSHING ON THE END OF THE CONDUIT STUB FOR PROTECTION OF THE WIRING.

F. PRIOR TO BEGINNING WORK, THIS CONTRACTOR SHALL FULLY COORDINATE HIS CONSTRUCTION OPERATIONS AND ALL TERMINATION LOCATIONS WITH AUTHORIZED REPRESENTATIVE OF THE TELEPHONE UTILITY COMPANY AND THE OWNER'S DATA NETWORK PROVIDER BY TIMELY NOTICE OR SCHEDULING OF SERVICE EQUIPMENT DATES, SERVICE MODIFICATION DATES AND NOTIFICATION OF REQUIRED OWNER AUTHORIZATIONS INVOLVING THE UTILITY COMPANY.

#### DUCT MOUNTED SMOKE DETECTORS

E. PROVIDE A 120 VOLT POWER SOURCE TO ALL DUCT MOUNTED SMOKE DETECTORS INSTALLED WITHIN NEW AND EXISTING ROOF TOP UNITS.

F. PROVIDE A DUCT MOUNTED SMOKE DETECTORS WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. FINAL ELECTRICAL CONNECTION AND ALL INTERLOCK WIRING BY THE ELECTRICAL CONTRACTOR.

G. PROVIDE ALL INTERLOCK WIRING IN CONDUIT BETWEEN ALL DUCT DETECTORS SUCH THAT UPON DETECTING SMOKE IN ANY ONE DETECTOR, ALL ROOF TOP UNITS SHALL BE SHUT DOWN.

H. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCATION AHJ. EC TO PROVIDE ALL REQUIRED INTERLOCK WIRING BETWEEN DUCT DETECTOR AND REMOTE SWITCH.

A. PROVIDE ALL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

B. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS REQUIRED TO 3. CONVENIENCE RECEPTACLES AT COUNTERTOPS - BOTTOM OF DEVICE 44" AFF OR AS ESATBLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF FACH SYSTEM

4. RECEPTACLES AT FOOD SERVICE EQUIPMENT - AS INDICATED ON THE FINAL, C. PROMPTLY CORRECT ANY FAILURES, DEFICIENCIES AND/OR DEFECTS REVEALED BY THESE

TESTS. AFTER CORRECTING FAILURES, DEFICIENCIES OF DEFECTS, CONDUCT NEW TESTING TO VERIFY THAT THE DEFICIENCY HAS BEEN RECTIFIED AND THE SYSTEM IS FUNCTIONING

D. NEW AND EXISTING PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL

E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTING/EXIT SIGNAGE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION TO DEMONSTRATE PROPER OPERATION AND COMPLIANCE WITH APPLICABLE CODES AND SPECIFIED REQUIREMENTS.

. THIRTY (30) DAYS PRIOR TO SUBSTANTIAL COMPLETION, SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EQUIPMENT TO ENGINEER FOR APPROVAL. INCLUDE ONE COPY OF EACH FINAL APPROVED SUBMITTAL FOR RECORD PURPOSES. INDICATING THE ACTUAL PRODUCT INSTALLED. INCLUDE SIGNIFICANT CHANGES IN THE PRODUCT DELIVERED TO PROJECT SITE AND CHANGES IN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION.

B. PROVIDE COMPREHENSIVE CONTACT LIST INCLUDING CONTRACTOR AND SUBCONTRACTOR'S NAMES, ADDRESSES, TELEPHONE AND CONTACT PERSON FOR OWNER'S USE.

#### TRAINING OF OWNER'S DESIGNATED PERSONNEL

OWNER'S PERSONNEL IN USE AND MAINTENANCE OF OPERATING EQUIPMENT.

A. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND THE INSTALLATION TO BE FREE OF DEFECTS THAT MAY DEVELOP IN ANY PART OF THEIR WORK CAUSED BY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT FAILURES, FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR FOR AS LONG AS NORMAL EQUIPMENT MANUFACTURER WARRANTIES ARE IN EFFECT FROM THE DATE OF OWNER ACCEPTANCE OF THE PROJECT, WHICHEVER IS LATER.

B. DURING THE ONE (1) YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR DEFECTS IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE WORK OF THE ELECTRICAL CONTRACT

#### TRANSFORMERS

A. DRY-TYPE TRANSFORMERS SHALL BE OF THE ENCLOSED, VENTILATED TYPE WITH KVA AND

INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS

AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY.

D. MOUNT TRANSFORMER ON VIBRATION ISOLATORS. LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OR VIOLATIONS WITH OTHER EQUIPMENT

2. CONTROL POWER TRANSFORMER (CPT) CIRCUITS: CLASS CC, TIME DELAY, CONTROL E. TRANSFORMERS RATED 15 KVA AND LARGER: COMPLY WITH NEMA TP 1 ENERGY-EFFICIENCY LEVELS AS VERIFIED BY TESTING ACCORDING TO NEMA TP 2.

LOW HYSTERESIS LOSSES.

G. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS. 1. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.

2. COIL MATERIAL: ALUMINUM.

NEMA 250, TYPE 2: CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND TO SEAL OUT MOISTURE AND AIR.

2. KVA RATINGS: BASED ON CONVECTION COOLING ONLY AND NOT RELYING ON

TRANSFORMER ENCLOSURE FINISH: COMPLY WITH NEMA 250

INSULATION CLASS, 30 KVA AND LARGER: 220 DEG C, UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 150-DEG C RISE ABOVE 40-DEG C AMBIENT

ACCEPTABLE MANUFACTURERS FOR TRANSFORMERS: SQUARE D (SCHNEIDER), ABB (GENERAL ELECTRIC), SIEMENS OR EATON.

#### FIRE ALARM SYSTEMS

A. FIRE ALARM SYSTEM WORK IS A DELEGATED DESIGN AND IS NOT INCLUDED AS PART OF THE ELECTRICAL SCOPE OF WORK.

DELEGATED DESIGN. .. GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A FIRE ALARM SYSTEM VENDOR/DESIGN PROFESSIONAL TO PREPARE THE FIRE ALARM

AND THE AUTHORITY HAVING JURISDICTION. D. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR VERIFYING ALL APPLICABLE CODE REQUIREMENTS AND ALL LOCAL FIRE ALARM SYSTEM REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURSIDICTION.

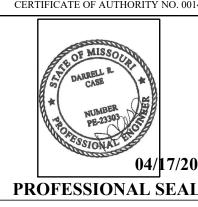
SYSTEM DESIGN, DETAILS, CALCULATIONS, ETC. AS REQUIRED BY ALL APPLICABLE CODES

E. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED SUBMITTAL DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

. GC/VENDOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE FIRE ALARM WORK.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 





**DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSCTRUCTION

OFFICE OF ADMINISTRATION

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143 PATTERSON, MO

X2319-01

7815218008

7815218007

CABIN #3:	7815218022
CABIN #4:	7815218005
CABIN #14:	7815218003
CABIN #19:	7815218019
REVISION: DATE: REVISION: DATE:	

PROJECT #

SITE#

ASSET:

CABIN #1:

CABIN #2:

REVISION

**ISSUEDATE** 

DATE

SHEET TITLE:

AD DWG FILE:	
RAWN BY:	
HECKED BY:	
ESIGNED BY:	

**ELECTRICAI** 

SHEET NUMBER

- A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFICATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SECIFICATIONS AND AS SUCH SHALL BE
- APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACT. B. PRIOR TO SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AND LIMITATIONS THAT IMPACT THE WORK OF THIS CONTRACT. NO ADDITIONAL COSTS TO THE OWNER SHALL BE PERMITTED FOR CHANGES TO THE WORK AS A RESULT OF THE CONTRACTORS FAILURE TO VISIT THE SITE PRIOR TO BIDDING AND IDENTIFY ITEMS THAT WERE ABLE TO BE VERIFIED DURING A SITE
- C. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, RIGGING, AND MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE, OPERATIONAL AND FUNCTIONAL ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.

VISIT PRIOR TO THE SUBMISSION OF A BID PROPOSAL

#### LANDLORDS REQUIREMENTS

- A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THE LANDLORD SUBMITTALS CRITERIA AND THE TENANT/LANDLORD AGREEMENT.
- B. ALL APPLICABLE REQUIREMENTS OF THE LANDLORDS CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT DOCUMENTS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.

#### **EXISTING CONDITIONS**

A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING

#### BIDS AND SUBSTITUTIONS

- A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEPFP CONSTRUCTION DOCUMENTS.
- B. SHOULD THE CONTRACTOR WISH TO SUBMIT AN ALTERNATE PRODUCT TO THE MANUFACTURERS NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS FOR ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT A VOLUNTARY ALTERNATIVE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BID, STATING THE MANUFACTURER'S NAME, MODEL NUMBER, WRITTEN, DETAILED PRODUCT DATA.
- C. WORK PERFORMED OR CONSTRUCTED WITH UNAPPROVED EQUALS IS AT CONTRACTOR'S RISK AND ANY REQUIRED CORRECTION OF WORK INCORPORATING UNAPPROVED EQUALS SHALL BE AT CONTRACTOR'S SOLE COST AND EXPENSE.
- D. NO SUBSTITUTIONS PERMITTED FOR LIGHTING FIXTURES

#### QUALITY ASSURANCE

- A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
- B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL AND FULLY OPERATIONAL B. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE E. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY I. CONDUIT SHALL BE SUPPORTED FROM STRUCTURE ONLY ELECTRICAL SYSTEM.
- C. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES FOR CODE COMPLIANT SUPPORT OF THE ELECTRICAL WORK, WHETHER OR NOT SHOWN ON THE POWER SYSTEM STUDIES - GENERAL DRAWINGS OR SPECIFIED IN THESE SPECIFICATIONS.
- D. REQUIREMENTS OF REGULATORY AGENCIES:
- 1. PERMITS: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.
- JURISDICTION.
- 3. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE COMPLETION OF THE PROJECT. INCLUDE IN OPERATION AND MAINTENANCE MANUALS.
- E. CODES AND STANDARDS
- 1. COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.
- STANDARDS LISTED INCLUDING ALL SUBSEQUENTLY PUBLISHED AMENDMENTS THERETO ISSUED PRIOR TO THE DATE OF THE BIDDING DOCUMENTS.
- 3. CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL AGENCIES WHICH HAVE AUTHORITY OVER THIS PROJECT.
- 4. COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING CODES AND D. ALL STUDIES SHALL BE BASED ON THE DEVICE CHARACTERISTICS OF ACTUAL EXISTING STANDARDS THAT HAVE BEEN ADOPTED BY AND ARE ENFORCED BY THE AUTHORITY HAVING JURISDICTION:
- a. INTERNATIONAL BUILDING CODE.
- b. INTERNATIONAL ENERGY CONSERVATION CODE
- c. INTERNATIONAL MECHANICAL CODE d. NATIONAL ELECTRICAL CODE
- e. INTERNATIONAL FIRE CODE
- f. LIFE SAFETY CODE, NFPA 101
- g. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
- h. ALL LOCAL CODES AND ORDINANCES ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- F. UNDERWRITERS LABORATORIES, INC. (UL) REFERENCED STANDARDS:
- 1. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED WITH THE APPLICABLE INDUSTRY STANDARDS

## ELECTRICAL CONTRACT DOCUMENTS

- A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER C. FOR EXISTING RELOCATED EQUIPMENT AND EXISTING EQUIPMENT THAT IS EXISTING TO FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK. NEITHER THE DRAWINGS OR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER. ANY ITEM SHOWN ON THE DRAWINGS OR SPECIFIED IN THE SPECIFICATIONS SHALL BE CONSIDERED AS IF SHOWN AND SPECIFIED IN BOTH.
- B. ELECTRICAL DRAWINGS AND SPECIFICATIONS: COMPLY WITH THE FOLLOWING D. GATHER AND TABULATE ALL REQUIRED DATA TO SUPPORT THE SHORT-CIRCUIT STUDY. REQUIREMENTS:
- 1. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND NECESSARILY LIMITED TO, GEOTECHNICAL, LANDSCAPE, CIVIL, ARCHITECTURAL, SYSTEM OVERCURRENT PROTECTIVE DEVICES AS FOLLOWS: STRUCTURAL, FOOD SERVICE, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
- 2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE APPROXIMATE LOCATION ONLY OF ELECTRICAL WORK. THE ACTUAL ARC FLASH HAZARD STUDY LOCATION OF ANY ELECTRICAL WORK SHALL NOT INTERFERE WITH THE LOCATION, A. PROVIDE A COMPUTER-BASED, ARC-FLASH HAZARD STUDY TO DETERMINE THE CLEARANCES, ETC. REQUIRED BY THE WORK OF OTHER TRADES.
- 3. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH THE ARCHITECTURAL WALL ELEVATIONS AND THE FINAL, APPROVED FOOD B. ELECTRICAL SURVEY DATA: GATHER AND TABULATE ALL REQUIRED INPUT DATA TO SERVICE SHOP DRAWINGS.
- C. DEFINITIONS: THE FOLLOWING TERMS ARE USED ON THE ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND SHALL BE DEFINED AS FOLLOWS:
- 1. CONTRACTOR THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
- OR ANY OF THEIR SUB-CONTRACTORS. 3. FURNISH - PURCHASE, SUBMIT FOR REVIEW AND APPROVAL, COORDINATE WITH TH
- CONTRACT DOCUMENTS AND DELIVER TO THE PROJECT SITE IN NEW, UNDAMAGED
- 4. INSTALL TO STORE AS DIRECTED, PROTECT FROM DAMAGE, INSTALL IN PLACE MAKE READY FOR CONNECTION TO THE REQUIRED SERVICE.

- 5. CONNECT CONNECT TO THE REQUIRED SERVICE AS REQUIRED FOR PROPER 2. NOMINAL VOLTAGE. OPERATION, TEST FOR PROPER OPERATION AND FUNCTIONALITY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND REQUIREMENTS SPECIFIED WITHIN THESE SPECIFICATIONS AND TURN OVER TO THE OWNER IN FULL OPERATING CONDITION.
- PROVIDE FURNISH, INSTALL AND CONNECT AS DEFINED ABOVE FOR A COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION READY FOR INTENDED USE.
- FINISHED SPACE SPACES HAVING WALLS PAINTED OR FINISHED WITH WALL COVERING, LAY-IN OR DRYWALL CEILINGS, AND FINISHED FLOORING MATERIALS. EXAMPLES OF FINISHED SPACES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, F. ARC FLASH HAZARD WARNING LABELS SHALL BE A 3.5-BY-5-INCH THERMAL TRANSFER EQUIPMENT IDENTIFICATION
- UNFINISHED SPACES SPACES WITH UNFINISHED WALLS AND FLOORS AND G. LABELS SHALL BE MACHINE PRINTED, WITH NO FIELD-APPLIED MARKINGS TYPICALLY ARE NOT EQUIPPED WITH A CEILING. EXAMPLES INCLUDE, BUT ARE NOT
- SHALL ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.

AREAS, ETC.

A. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR'S OF BASIC RESPONSIBILITIES AT THE COMPLETION OF THE WORK. UNDER HIS CONTRACT. ARCHITECT/ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. REVIEW BY THE COORDINATION WITH LANDLORD AND UTILITY COMPANIES ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED:

- 1. AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
- 2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS DIMENSIONS OR OTHERWISE THAT MAY EXIST.
- 3. AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER.

#### N. SHOP DRAWINGS:

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED. SEE GENERAL
- 2. PROVIDE SUBMITTALS FOR LIGHTING FIXTURES, PANELBOARDS, LIGHTING CONTROL DEVICES, CONTACTORS, WIRING DEVICES, POWER SYSTEM STUDY.
- O. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS C. CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZE OF PIPES, G. CONDUITS INSTALLED UNDER SLAB ON GRADE CONSTRUCTION SHALL BE RIGID UNTIL THE RESPECTIVE SUBMITTALS HAS BEEN APPROVED BY THE ENGINEER.

#### **ELECTRICAL COORDINATION DRAWINGS**

- DIRECTED BY THE GENERAL CONTRACTOR.
- ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION OTHERS, (HVAC EQUIPMENT, PLUMBING EQUIPMENT, COMMERCIAL KITCHEN REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.

- A. PROVIDE COMPUTER-BASED, POWER SYSTEM STUDIES THAT INCLUDES:
- 1. A SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES;
- 2. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING 2. AN ARC-FLASH STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR **TEMPORARY POWER** NEAR ELECTRICAL EQUIPMENT.
  - DISTRIBUTED NATIONALLY AND ARE IN WIDE USE. SOFTWARE ALGORITHMS SHALL CONTRACTS COMPLY WITH REQUIREMENTS OF STANDARDS AND GUIDES SPECIFIED IN THIS SECTION. MANUAL CALCULATIONS ARE UNACCEPTABLE.
- C. SOFTWARE DEVELOPERS: SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS, DURING THE WORK OF THIS CONTRACT PERFORM STUDIES UTILIZING SOFTWARE PRODUCTS BY ONE OF THE FOLLOWING: 2. CONFORM TO THE INSTALLATION RULES AND REGULATIONS OF THE CODES AND
  - 1. EASY POWER
  - 2. POWER ANALYTICS CORPORATION
  - 3. SKM SYSTEMS ANALYSIS
  - COMPONENTS AND THE NEW COMPONENTS BEING INSTALLED.
  - E. PROVIDE ALL FIELD LABOR AS REQUIRED TO OBTAIN ALL DATA NECESSARY TO CONDUCT B. ELECTRICAL SERVICE CONNECTIONS: COORDINATE WITH UTILITY COMPANIES AND THE STUDIES SPECIFIED HEREIN.
  - F. SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING THE SYSTEM OVERCURRENT PROTECTIVE DEVICE AND POWER DISTRIBUTION EQUIPMENT SUBMITTALS. SUBMIT STUDY REPORT FOR REVIEW PRIOR TO RECEIVING FINAL APPROVAL OF THE
  - OVERCURRENT ROTECTIVE DEVICE AND DISTRIBUTION EQUIPMENT SUBMITTALS. G. WHERE FORMAL COMPLETION OF STUDIES WILL CAUSE A DELAY IN THE ORDERING AND MANUFACTURING OF OVERCURRENT PROTECTIVE DEVICES AND POWER DISTRIBUTION C. METERS SHALL BE FURNISHED BY UTILITY COMPANY; INSTALLED BY ELECTRICAL EQUIPMENT, OBTAIN APPROVAL FROM ENGINEER FOR PRELIMINARY SUBMITTAL OF CONTRACTOR. SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICES AND ASSOCIATED

STUDIES BEING PERFORMED.

- 2. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE UL LISTED AND A. PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.
  - B. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.
  - REMAIN, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD PARTITIONS INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS THE QUALIFICATIONS OF TECHNICIANS AND ENGINEERS SHALL BE QUALIFIED AS DEFINED B. FIRESTOP SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E BY NFPA 70F
  - COMPLY WITH RECOMMENDATIONS IN IEEE 551 AS TO THE AMOUNT OF DETAIL THAT IS

    SEISMIC RESTRAINT REQUIRED TO BE ACQUIRED IN THE FIELD.
- SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT E. BEGIN SHORT-CIRCUIT CURRENT ANALYSIS AT THE SERVICE, EXTENDING DOWN TO THE
  - 1. TO NORMAL SYSTEM LOW-VOLTAGE LOAD BUSES WHERE FAULT CURRENT IS 10 KA B. SUBMIT ALL REQUIRED DETAILS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW

- BE EXPOSED DURING WORK ON OR NEAR EXISTING AND NEW ELECTRICAL EQUIPMENT.
- SUPPORT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 1584 AND NFPA 70E AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.
- C. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.
- 2. WORK ALL MATERIAL, LABOR, TRANSPORTATION OF THE ELECRICAL CONTRACTOR D. FOR EXISTING EQUIPMENT, WHETHER OR NOT RELOCATED, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, GROUNDING CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS.
  - E. HAZARD LABELS SHALL HAVE AN ORANGE HEADER WITH THE WORDING, "WARNING, APPLICABLE N.E.C. REQUIREMENTS. ARC-FLASH HAZARD," AND SHALL INCLUDE THE FOLLOWING INFORMATION TAKEN DIRECTLY FROM THE ARC-FLASH HAZARD ANALYSIS:
  - 1. LOCATION DESIGNATION.

- 3. FLASH PROTECTION BOUNDARY
- 4. HAZARD RISK CATEGORY.
- INCIDENT ENERGY.
- WORKING DISTANCE.
- ENGINEERING REPORT NUMBER, REVISION NUMBER, AND ISSUE DATE.
- ALL SPACES IN A DWELLING UNIT, OFFICES, LOBBIES, CORRIDORS, TOILET ROOMS, LABEL OF HIGH-ADHESION POLYESTER FOR EACH WORK LOCATION INCLUDED IN THE

## NECESSARILY LIMITED TO, MECHANICAL ROOMS, ELECTRICAL ROOMS, SERVICE RECORD DOCUMENTS

- A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT B. THE COVERS OF ALL OUTLET AND JUNCTION BOXES INSTALLED ABOVE CEILINGS AND (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE LABELED TO IDENTIFY THE WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE

- A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED ACCORDANCE WITH N.E.C. REQUIREMENTS. REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE INCLUDING BUT NOT NECESSARILY LIMITED TO, ELECTRIC, TELEPHONE AND B. MINIMUM CONDUIT SIZE SHALL BE 3/4" TRADE SIZE. SWITCH LEGS SHALL BE 1/2" TRADE CABLE/SATELLITE TV SERVICE PROVIDERS.
- . CONTRACTOR SHALL MEET WITH AUTHORIZED REPRESENTATIVES OF THE LANDLORD AND C. WITHIN INTERIOR FINISHED AREAS, ALL CONDUIT SHALL BE INSTALLED CONCEALED EACH UTILITY TO DISCUSS UTILITY COMPANY SCOPE OF WORK, CONTRACTOR SCOPE OF WORK, POINT OF SERVICE PICK-UP, DETAILS REGARDING SYSTEM INTERFACE, UTILITY COMPANY STANDARDS TO BE COMPLIED WITH, ETC.

#### **COORDINATION WITH OTHER TRADES**

- CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS. A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WIH THE WORK OF
  - CONVENIENT AND PROPER INSTALLATION OF THE WORK.
  - THAT THERE MAY BE NO INTERFERENCES BETWEEN THE INSTALLATION OR THE PROGRESS OF THE WORK OF ANY CONTRACTOR ON THE PROJECT.
  - SYSTEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
  - COORDINATE THE NEMA CONFIGURATION OF THE RECEPTACLE TO BE PROVIDED WITH K. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT. THE NEMA PLUG CONFIGURATION OF THE CORD/PLUG ASSEMBLY FURNISHED WITH THE EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.
  - G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.

- A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY POWER AND LIGHTING TO B. STUDIES SHALL BE PERFORMED UTILIZING COMPUTER PROGRAMS THAT ARE ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR
  - B. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR TO COORDINATE THE TYPE OF EQUIPMENT TO BE UTILIZED

#### SEQUENCING AND SCHEDULING

A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING Q. ALL CONDUITS INSTALLED IN ASSOCIATION WITH THE WALK-IN COOLER FREEZER SHALL BE COMPONENTS AND THE PROJECT PHASING PLAN.

#### **UTILITY COMPANY METERING EQUIPMENT**

- A. PROVIDE ALL EQUIPMENT REQUIRED FOR ELECTRICITY METERING BY UTILITY COMPANY.
- COMPONENTS THEY FURNISH AS FOLLOWS: COMPLY WITH REQUIREMENTS OF UTILITIES PROVIDING ELECTRICAL POWER SERVICES
- COORDINATE INSTALLATION AND CONNECTION OF UTILITIES AND SERVICES, INCLUDING PROVISION FOR ELECTRICITY-METERING COMPONENTS.
- CHARACTERISTICS IS SATISFACTORY AND IN COMPLIANCE WITH THE RESULTS OF THE D. METER SOCKETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY. E. INSTALL ALL CONDUITS AND EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN

REQUIREMENTS. PROVIDE EMPTY CONDUITS FOR METERING LEADS AND EXTEND

#### GROUNDING CONNECTIONS AS REQUIRED BY UTILITY COMPANY. FIRE STOPPING

- A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY CONDUIT OR CABLES AND OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES) AND VERTICAL SHAFT WALLS AND
- 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF THE CONSTRUCTION BEING PENETRATED.

- A. PROVIDE SEISMIC RESTRAINT FOR ELECTRICAL WORK AND SYSTEMS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- AND APPROVAL

- ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD A. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. STRUCTURAL COMPONENTS, INCLUDING BUT NOT NECESSARILY LIMITED TO, COLUMNS, BEAMS, GIRDIRS, PLATES OR JOISTS SHALL NOT
  - B. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACES AND PREPARE TO RECEIVE SPECIFIED FINISHES. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING SYSTEM. ALL ROOF WORK SHALL BE PERFORMED TO MEET THE WARRANTY REQUIREMENTS OF THE EXISTING ROOFING SYSTEM.

- A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH
- . PROVIDE AN INSULATED EQUIPMENT GROUND CONDUCTOR WITHIN ALL FEEDERS AND BRANCH CIRCUITS.

- C. PROVIDE AN ISOLATED GROUND CONDUCTOR IN ADDITION TO THE EQUIPMENT GROUNDING CONDUCTOR IN SELECT BRANCH CIRCUITS AS NOTED ON THE DRAWINGS.
- D. PROVIDE A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR FROM THE GROUND BAR AT TELEPHONE TERMINAL BOARD TO THE ELECTRICAL SERVICE GROUND.
- E. PROVIDE A COPPER GROUNDING BAR AT THE TELEPHONE TERMINAL BACKBOARD. GROUNDING BAR SHALL BE ¼ INCH X 4 INCHES X 12 INCHES, PRE-DRILLED FOR CONDUCTOR TERMINATIONS, WITH NON-METALLIC STAND-OFF BRACKETS WITH INSULATORS. CHATSWORTH PRODUCTS 10622-012 OR APPROVED EQUAL.
- - A. PROVIDE EQUIPMENT LABELS ON PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, CONTROLS, ETC. EQUIPMENT LABELS SHALL BE ENGRAVED PHENOLIC RESIN NAMEPLATES ATTACHED TO ENCLOSURE WITH MECHANICAL FASTENERS. SELF-ADHESIVE NAMEPLATES ARE NOT ACCEPTABLE. LETTERING SHALL BE 1/2" HIGH, BLACK TEXT ON WHITE BACKGROUND.
  - SERVING PANEL, VOLTAGE, PHASE AND CIRCUIT NUMBERS CONTAINED WITHIN THE BOX. LABEL SHALL BE LEGIBLY HANDWRITTEN WITH BLACK, FELT TIP PERMANENT MARKER.
- C. THE COVER PLATES OF ALL WIRING DEVICES SHALL BE LABELED TO IDENTIFY THE SERVING CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR B. CONTRACTOR SHALL PROVIDE THE TENANT WITH THE FINAL AS-BUILT SET OF DRAWINGS PANEL AND THE CIRCUITS SERVING THE DEVICE. LABELS SHALL BE MACHINE PRINTED, BLACK TEXT ON A CLEAR, SELF ADHESIVE LABEL.

#### CONDUIT AND FITTINGS

- WITHIN NEW AND EXISITNG WALLS AND ABOVE NEW AND EXISTING CEILINGS. D. CONDUIT INSTALLED WITHIN THE INTERIOR OF THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT). CONDUIT FITTINGS FOR INDOOR EMT CONDUITS SHALL BE CAST METAL, COMPRESSION TYPE.
- E. EMT SHALL BE USED FOR INTERIOR FEEDERS AND BRANCH CIRCUITS INSTALLED CONCEALED ABOVE CEILINGS OR CONCEALED WITHIN EXISTING AND NEW INTERIOR
- B. SET ALL SLEEVES AND CUT AND PATCH ALL MISCELLANEOUS HOLES NECESSARY FOR THE F. CONDUITS INSTALLED EXPOSED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. FITTINGS SHALL BE THREADED TYPE
- EQUIPMENT, DUCTS, OPENINGS AND SPECIAL ARCHITECTURAL TREATMENTS IN ORDER NON-METALLIC (RNC), SCHEDULE 40 PVC. RNC COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED. FITTINGS FOR RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH NEMA TC 3; MATCH TO CONDUIT TYPE AND MATERIAL.
- A. PREPARE ELETRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS D. ALL LINE VOLTAGE WIRING AND FINAL CONNECTIONS TO COMPLETE MECHANICAL H. PROVIDE CONDUIT EXPANSION FITTINGS IN ALL CONDUIT RUNS THAT EXTEND ACROSS BUILDING EXPANSION JOINTS AND WHERE MOVEMENT MAY BE ENCOUNTERED.

NON-REFRIGERATED SPACES TO REFRIGERATED SPACES.

WHEATLAND, ELECTRI-FLEX AND ANACONDA.

- PVC CONDUIT SHALL ONLY BE USED BELOW GRADE
- MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.
- PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT IN WET OR OUTDOOR LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE
- M. PROVIDE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES (FIXTURE WHIPS). MAXIMUM CONDUIT LENGTH SHALL BE 72 INCHES.
- N. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL ELECTRICAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.

O. CONDUITS THAT EXTEND UP TO THE ROOF LEVEL TO SERVE ROOF MOUNTED

MECHANICAL EQUIPMENT INSTALLED ON A CURB SHALL BE ROUTED WITHIN THE

EQUIPMENT CURB. COORDINATE ELECTRICAL WORK WITH MECHANICAL EQUIPMENT

P. PROVIDE CONDUIT SEALING FITTINGS IN ALL CONDUITS THAT EXTEND FROM

INSTALLED IN ACCORDANCE WITH THE WALK-IN MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. COORDINATE ALL CONDUIT INSTALLATION WITH WALK-IN EQUIPMENT INSTALLER.

R. ACCEPTABLE MANUFACTURERS FOR GALVANIZED RIGID CONDUIT, EMT, FLEXIBLE METAL

CONDUITS AND LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL BE ALLIED. REPUBLIC.

S. ACCEPTABLE MANUFACTURERS FOR CONDUIT FITTINGS SHALL BE THOMAS AND BETTS OR APPROVED EQUAL.



St. Louis, MO 63026

PROFESSIONAL SEAL

STATE OF MISSOURI MICHAEL L. PARSON.

**GOVERNOR** 

CERTIFICATE OF AUTHORITY NO. 001498

F 636.349.1730



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

**DEPARTMENT OF NATURAL** RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE SAM A. BAKER STATE PARK RENOVATE CABINS 1-4, 14, & 19 SAM A. BAKER STATE PARK 5580 STATE HIGHWAY 143

PATTERSON, MO

7815218008

7815218007

7815218022

X2319-01 PROJECT # SITE # ASSET:

CABIN #4: 7815218005 **CABIN #14:** 7815218003 **CABIN #19:** 7815218019 REVISION

CABIN #1:

CABIN #2:

CABIN #3:

DATE

DATE

DATE

REVISION

**REVISION** 

**ISSUEDATE** CAD DWG FILE DRAWN BY CHECKED BY:

DESIGNED BY:

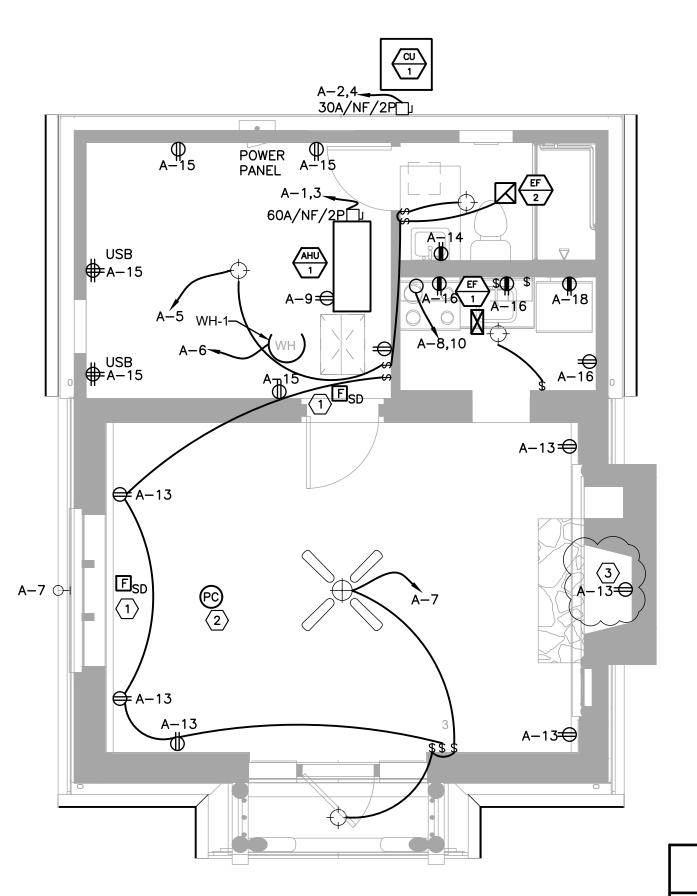
SHEET TITLE

**ELECTRICAI** 

SHEET NUMBER

53 OF 54 SHEETS

04/17/24



GENERAL NOTE

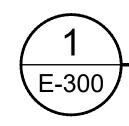
NO EXPOSED CONDUIT PERMITTED. ALL WIRE TO BE TYPE MC.

## **KEYED NOTES**

CEILING MOUNTED COMBINATION SMOKE DETECTOR. 120V WITH INTEGRAL BATTERY BACKUP. FIRST ALERT MODEL SC9120 OR APPROVED EQUAL BY BRK. PROVIDE INTERCONNECTING WIRING BETWEEN ALL DETECTORS SUCH THAT WHEN ANY ONE DETECTOR IS ACTIVATED, ALL DETECTORS SOUND AN ALARM.

2 PHOTOCELL TO BE PROVIDED BY EC FOR DIMMING/AUTOMATIC CONTROL FOR EXTERIOR LIGHT FIXTURE CONTROL.

3 EC TO DRILL AND PROVIDE A GALVANIZED STEEL CONDUIT/SLEEVE FOR THE CHIMNEY FLUE FROM THE CEILING DOWN TO THE FIREBOX FLOOR. ELECTRICAL CABLE HSALL BE M/C CABLE RUN THROUGH THE CONDUIT SLEEVE AND GROUTED TO KEEP INSECTS OUT.



## ELECTRICAL POWER AND LIGHTING PLAN

SCALE: 1/4" = 1'-0"

MOUNT: FLUSH 120/240			120	/240	1-PHASE, 3W		PANEL A			4	CAPACITY: 200A			INT CAP: EXISTING				
LOCATION:						LUGS: MC			MC	В	DEMAND LOAD: 128A			AV. FAULT: EXISTING				
СКТ	LTG	REC	HVAC	MISC KIT		DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	СКТ
1			6.6			AHU-1	60	60 2	Α	25	2	2 CU-1			1.9			2
3			6.6			Ano-i	00		В	25	-	.			1.9			4
5			0.9			LIGHTING/EF2	20	1	Α	20	1	WATER HEATER				2.0		6
7			0.9			LIGHTING/EF1	20	1	В	60	2	ELECTRIC RANGE					4.8	8
9		0.2				HVAC RECEPTACLE	20	1	Α	00	2 ELECTRIC RANGE					4.8	10	
11						SPARE	20	1	В	20	1	MICROWAVE					1.6	12
13						LIVING RM RECEPTS.	20	1	Α	20	1	RR RECEPT.						14
15						BEDROOM RECEPTACLES	20	1	В	20	1	KITCHEN RECEPT.					8.0	16
17						SPARE	20	1	Α	20	1	FRIDGE						18
19						SPARE	20	1	В	20	1	SPARE						20
21						SPARE	20	1	Α	20	1	SPARE						22
23						SPARE	20	1	В	20	1	SPARE						24
25						SPARE	20	1	Α	20	1	SPARE						26
27						SPARE	20	1	В	20	1	SPARE						28
29						SPARE	20	1	Α	20	1	SPARE						30
DL	DUAGE DALANCE			LOAD	TYPE	CONNECTED	DEMAND				DEMAND FORMULA					TOTAL LOAD		
PF	PHASE BALANCE		CE	LIGHTING		0.0 KVA	0.0 KVA			LOAD X 125% NEC 210.19 CONTINUOUS		S		CONNECTED		DEM	AND	
ф	LOAD %		%	RECEPTACLE		0.2 KVA	0.2 KVA				10KVA + 50% REMAINDER NEC 220.44			33.0 KVA		30.6	KVA	
Α	16.4 KVA 33%		33%	HVAC		18.8 KVA	18.8 KVA				LOAD X 100% (USED MCA IN CALCULATION)				137.7A 12		127	'.7A
В	16.6	KVA	34%	MISC		2.0 KVA		2.0 K	VA		LOAD X 100% NEC 210.19 NON-CONT.				CASE			
С	C 16.4 KVA 33%		33%	KIT		12.0 KVA	9.6 KVA				80% PER NEC TABLE 220.56				Engineering Inc.			

# A-14 PC 2 A-7

#### KITCHEN RECEPTACLE NOTES

ALL KITCHEN SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS SHALL HAVE GROUND—FAULT CIRCUIT—INTERRUPTER PROTECTION FOR PERSONNEL PER NEC SECTION 210.8 (B) (1)—(10).

POWER PANEL

**⊕**A−15

- 2. ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER OR A DEAD FRONT GFI DEVICE INSTALLED IN A READILY ACCESSBILE LOCATION SHALL USED TO FEED THE CIRCUIT NOTED.
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

## POWER PLAN GENERAL ELECTRICAL NOTES

- 1. EXACT LOCATION, CUT-OUTS AND MOUNTING HEIGHTS FOR WIRING DEVICES IN CASEWORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- 2. VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. NOTIFY OWNER OF ANY DISCREPANCIES. IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, EXISTING EQUIPMENT MAY BE RE-USED. IF NOT ACCEPTABLE, FURNISH AND INSTALL NEW.
- ALL RECEPTACLES, DATA AND TELEPHONE OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- PRIOR TO CONNECTION EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
- 5. EC TO VERIFY PLUG TYPE, AMPERAGE, VOLTAGE, AND LOCATION PRIOR TO BID AND ROUGH IN.
- 6. EC TO VERIFY ALL POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE HACR BREAKERS AS REQUIRED.
- 7. WHEN POSSIBLE, OUTLETS TO BE MOUNTED ABOVE BACKSPLASH FOR COUNTER TOP EQUIPMENT AND BELOW COUNTER FOR UNDER COUNTER EQUIPMENT. PROVIDE POWER BELOW COUNTER FOR FRONT SERVING LINE COUNTER TOP EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR COUNTER TOP HEIGHTS.

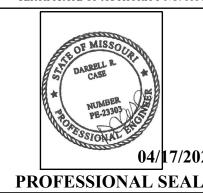
ELECTRICAL SYMBOLS								
SYMBOL	DESCRIPTION							
AC	ABOVE COUNTER							
CLG	CEILING MOUNTED							
GC	GENERAL CONTRACTOR							
EC	ELECTRICAL CONTRACTOR							
MC	MECHANICAL CONTRACTOR							
WP	WEATHERPROOF							
GFI	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE							
AFF	ABOVE FINISHED FLOOR							
PROVIDE	FURNISH AND INSTALL COMPLETE							
<b>(</b>	JUNCTION BOX, MOUNTING HEIGHT							
$\oplus$	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)							
<b>#</b>	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE							
$\ominus$	20A, 1P, 125V, GFCI TYPE DUPLEX RECEPTACLE							
	SPECIAL USE RECEPTACLE, COORDINATE WITH EQUIPMENT SUPPLIER							
\$m	CEILING MOUNTED EXHAUST FAN WITH MANUAL DISCONNECT							
□30/NF/3	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 3 POLE							
\$	LIGHT SWITCH							
\$ <sub>3</sub>	LIGHT SWITCH (3 WAY)							
\$ <sub>4</sub>	LIGHT SWITCH (4 WAY)							
\$os	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'-6" AFF TO CENTERLINE (WATT STOPPER #DW100-WH OR EQUAL)							
lack	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.							
. 40"	40" ADOVE ENJOYED ELOOD TO OFFITEDLINE							

12" ABOVE FINISHED FLOOR TO CENTERLINE

F<sub>SD</sub>

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







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CABIN #19: 7815218019

REVISION:

DATE: \_\_ REVISION: \_ DATE: \_ REVISION: \_ DATE: \_ ISSUEDATE:

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

SHEET TITLE:

ELECTRICAL POWER AND LIGHTING PLAN

SHEET NUMBER:

E-300