Cherokee Nation Park

Sallisaw Creek Restroom Addition

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

Index of Drawings

General Drawings:

Civil Drawings:

Architectural Drawings:

Structural Drawings:

Mechanical Drawings:

Plumbing Drawings:

Electrical Drawings:

Project Directory

Owner:
Cherokee Nation
17675 S. Muskogee Ave.
Tahlequah, Oklahoma 74464
(918) 453-5000

Architect:
Davies Architects
1820 S. Boulder Ave., Suite 400
Tulsa, Oklahoma 74119
(918) 749-7749

Civil Engineers:
Wallace Design Collective, PC
123 M.L.K. Jr. Blvd.
Tulsa, Oklahoma 74103
(918) 584-5858

Mechanical/ Electrical/ Plumbing Engineers:
Green Acorn
1350 South Boulder Avenue, Suite 950
Tulsa, Oklahoma 74119
(918) 629-4291

Structural Engineers:
BE Structural Consultants, PLLC
Tulsa, Oklahoma 74133
(918) 812-3118

Project Data:

Construction Area: 936 Sq. Ft.

mgm design group

Cherokee Nation Park
Sallisaw Creek Restroom Addition
457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK DAVIES III
2012
TULSA, OKLA
LICENSED ARCHITECT
6.17.25

DATE
06.17.25
SHEET
Cover Sheet

G1.0

DESIGN DATA

BUILDING CODE	
	OKLAHOMA UNIFORM BUILDING CODE
	INTERNATIONAL BUILDING CODE - 2018
	INTERNATIONAL PLUMBING CODE - 2018
	INTERNATIONAL MECHANICAL CODE - 2018
	NATIONAL ELECTRICAL CODE - 2020
OCCUPANCY CLASSIFICATION AND USE	USE GROUP B BUSINESS
CONSTRUCTION TYPE (IBC CHAPTER 6)	TYPE V B
GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)	
CONSTRUCTION SQUARE FOOTAGE CALCULATIONS BUILDING AREA: 936 SF CONSTRUCTION AREA WITH ROOF OVERHANGS: 1,790 SF ALLOWABLE AREA (IBC 506.2) GROUP B - TYPE V B - NON SPRINKLERED ALLOWABLE AREA: 9,000 SF PROVIDED: 936 SF	
ALLOWABLE BUILDING HEIGHTS (IBC 504.3) ALLOWABLE: 40' - 0" PROVIDED: 21'- 0"	
FRONTAGE INCREASE (IBC 506.3)	NOT REQUIRED

TYPES OF CONSTRUCTION (CHAPTER 6)

BUILDING ELEMENT	HOURLY RATING REQUIRED	HOURLY RATING PROVIDED	METHOD OF ACHIEVING RATING
EXTERIOR BEARING WALLS	0	0	N/A
INTERIOR BEARING WALLS	0	0	N/A
EXTERIOR NON-BEARING WALLS	0	0	N/A
INTERIOR NON-BEARING WALLS	0	0	N/A
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0	0	N/A
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0	0	N/A

INTERIOR FINISHES (IBC 803.13)

NON SPRINKLERED

GROUP	EXITS	CORRIDORS	ROOMS
BUSINESS	A	B	C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

AUTOMATIC FIRE EXTINGUISHING SYSTEM (IBC 903) NOT SPRINKLERED

PORTABLE FIRE EXTINGUISHERS (IBC 906.3(1))

	LIGHT HAZARD OCCUPANCY	EXTINGUISHERS AS PROVIDED
MIN. RATED SINGLE EXTINGUISHER:	2-A	
MAXIMUM FLOOR AREA PER UNIT OF A:	3,000 SQ FT.	936 SF. / 3,000 SF. = 1 MIN.
MAXIMUM FLOOR AREA FOR EXTINGUISHER:	11,250 SQ FT.	BUILDING AREA LESS THAN MAX
MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER:	75 FT.	

FIRE ALARM AND DETECTION SYSTEMS (IBC 907.2.2)

GROUP B - BUSINESS
FIRE ALARM SYSTEM: NOT REQUIRED
SMOKE DETECTION SYSTEM: NOT REQUIRED
OCCUPANCY NOTIFICATION SYSTEM: NOT REQUIRED

OCCUPANT LOAD CALCULATIONS (IBC 1004.1.2)

ROOM NO.	ROOM NAME	OCCUPANCY FUNCTION	ROOM AREA	SF PER PERSON	AREA TYPE	OCCUPANT LOAD
100	LAUNDRY	B - BUSINESS	192 SF	150	GROSS	2
101	WORK ROOM	B - BUSINESS	93 SF	150	GROSS	1
103	IT	B - BUSINESS	34 SF	150	GROSS	1
104	MECH	B - BUSINESS	56 SF	150	GROSS	1
105	TOILET	B - BUSINESS	58 SF	150	GROSS	1
106	TOILET	B - BUSINESS	58 SF	150	GROSS	1
107	TOILET	B - BUSINESS	48 SF	150	GROSS	1
108	TOILET	B - BUSINESS	48 SF	150	GROSS	1
109	TOILET	B - BUSINESS	58 SF	150	GROSS	1
110	TOILET	B - BUSINESS	58 SF	150	GROSS	1
TOTAL OCCUPANT LOAD:						11

OCCUPANT LOAD PER EXIT ACCESS DOOR WITH OCCUPANT LOAD FACTOR

SPACES WITH ONE EXIT ACCESS DOORWAY (IBC 1006.2.1)

OCCUPANCY	MAXIMUM OCCUPANCY LOAD OF SPACE	WO SPRINKLER OL>30
BUSINESS	49	75

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (1017.2) 200 FT WITHOUT SPRINKLER SYSTEM

MINIMUM NUMBER OF EXITS 1006.3.2 1 - 500 OCCUPANTS PER STORY = 2 EXITS

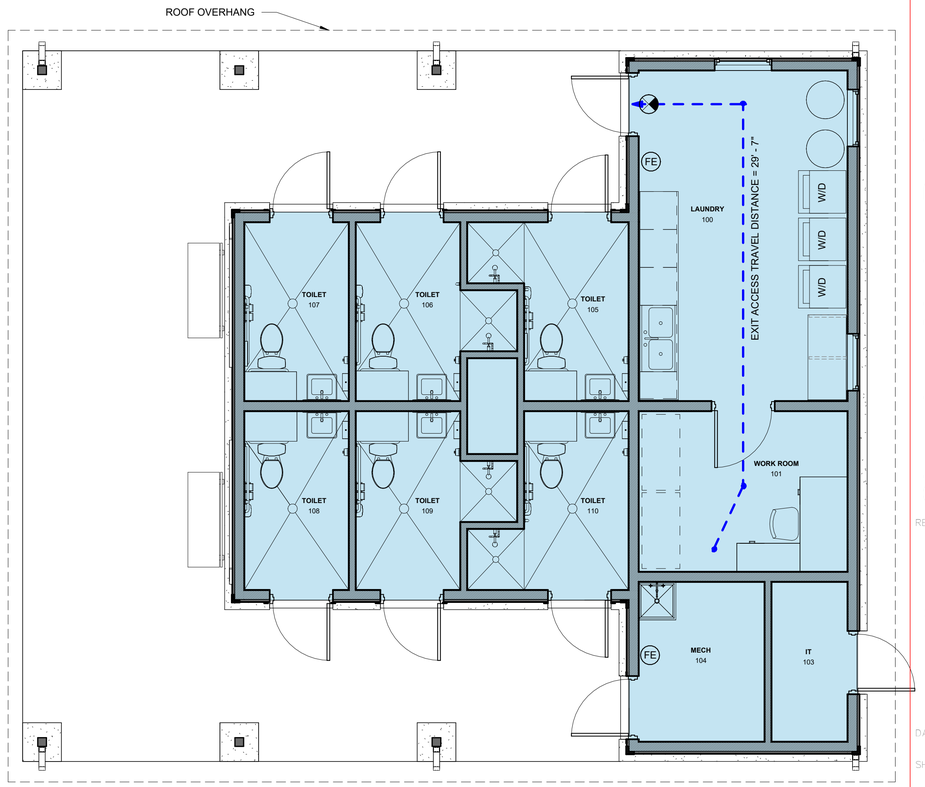
FE WALL MOUNTED FIRE EXTINGUISHER

EXIT SIGNAGE LIGHTING WITH BACK UP POWER

EXIT ACCESS TRAVEL DISTANCE

B OCCUPANCY

LIFE SAFETY PLANS ARE PROVIDED TO INDICATE PROPOSED FACILITY COMPLIANCE WITH CERTAIN JURISDICTIONAL BUILDING CODE REQUIREMENTS. EXISTING RATED WALL ASSEMBLIES INDICATED ARE AS ILLUSTRATED ON THE ORIGINAL FACILITY CONSTRUCTION DOCUMENTS OR AS PROVIDED BY THE OWNER. ACTUAL WALL CONSTRUCTION HAS NOT BEEN VERIFIED BY THE ARCHITECT. NO NEW CONSTRUCTION REQUIREMENTS ARE PROVIDED ON THE LIFE SAFETY PLANS. REFER TO ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS FOR SPECIFIC CONSTRUCTION REQUIREMENTS RELATED TO LIFE SAFETY PLANS. WHERE NEW CONSTRUCTION ABUTS OR EXTENDS EXISTING RATED WALL ASSEMBLIES, VERIFY EXISTING WALL COMPLIANCE WITH WALL ASSEMBLY INDICATED ON THE LIFE SAFETY PLANS AND NOTIFY THE ARCHITECT OF ANY AREAS OF NON-COMPLIANCE.



1 LIFE SAFETY PLAN
1/4" = 1'-0"
0 2' 4' 8'
NORTH

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SHEET
Life Safety Plan

G1.1

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING	MILLWORK		REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL		CABINETS	COUNTERS	
100	LAUNDRY	SC	FRP TRIM	FRP1	FRP1	FRP1	FRP1	ACT1	PL1	SS1	PROVIDE FRP CORNER AND BASE MOLDINGS
101	WORK ROOM	SC	FRP TRIM	FRP1	FRP1	FRP1	FRP1	ACT1			PROVIDE FRP CORNER AND BASE MOLDINGS
103	IT	SC	RB1	P1	P1	P1	P1	P2 - GYP			PROVIDE 3/4" FIRE TREATED PLYWOOD FOR IT INSTALLATION
104	MECH	SC	RB1	P1	P1	P1	P1	OPEN			
105	TOILET	FT1	CT1	WT1	WT1	WT1	WT1	P2- GYP		SS1	
106	TOILET	FT1	CT1	WT1	WT1	WT1	WT1	P2 - GYP		SS1	
107	TOILET	FT1	CT1	WT1	WT1	WT1	WT1	P2 - GYP		SS1	
108	TOILET	FT2	CT1	WT1	WT1	WT1	WT1	P2 - GYP		SS1	
109	TOILET	FT2	CT1	WT1	WT1	WT1	WT1	P2 - GYP		SS1	
110	TOILET	FT2	CT1	WT1	WT1	WT1	WT1	P2 - GYP		SS1	

MATERIAL FINISH / SPECIALTIES SCHEDULE

	MATERIAL	MANUF	DESCRIPTION	SIZE	COMMENTS / INSTALLATION NOTES
FIBERGLASS REINFORCED PANEL					
FRP1	FRP	MARELITE	WHITE, PEBBLED		PROVIDE ALL TRIM CONNECTIONS
MILLWORK					
SS1	SOLID SURFACE	CORIAN	CHAI CREAM MIRAGE		
PAINT					
PT1	PAINT	SHERWIN WILLIAMS	SHELL WHITE 8917 SATIN		FIELD PAINT
PT2	PAINT	SHERMIWN WILLIAMS	SHELL WHITE 8917 EGGSHELL		ALL CEILINGS
PT3	PAINT	SHERWIN WILLAIMS	MATCH TRIM COLOR		PAINT ALL HM DOORS AND FRAMES TO MATCH TRIM
TILE					
FT1	FLOOR TILE	GLAZZIO	BARE COLLECTION - NUDE	2" X 2"	1/8" THICK GROUT JOINTS (SHOWER FLOORS)
FT2	FLOOR TILE	GLAZZIO	HARMONIC COLLECTION - CRESCENDO	12" X 12"	HEXIMOSAIC MATTE (TOILET FLOORS)
WT1	WALL TILE	GLAZZIO	BARE COLLECTION - NUDE	12" X 24"	1/8" THICK GROUT JOINTS
TRANSITIONS					
TR1	METAL TRANSITION	SCHLUTER SYSTEMS	SCHLUTER JOLLY AND COVE, ANODIZED ALUMINUM		
WALL BASE					
RB1	RUBBER BASE	ROPPE	SMOKE	4" COVE	
Z- APPLIANCES					
WD-1	WASHER DRYER	WHIRLPOOL	MODEL NO. CET8000XQ 27" (3 TOTAL) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		OWNER PROVIDE/ CONTRACTOR INSTALLED

DOOR SCHEDULE

DOOR#	W	H	T	MATERIAL	FRAME	TYPE	HARDWARE SET	RATING	NOTE
110	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
105	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
104	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	02		
100	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	02		
101	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	03		
109	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
106	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
108	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
107	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	01		
103	3' - 0"	7' - 2"	1 3/4"	HM	HM	A	02		

DOOR HARDWARE

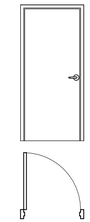
SET#01
- CLOSER
- ADA USE INDICATOR PRIVACY BATHROOM SET WITH KEY
- THRESHOLD
- WEATHER SEAL
- DOOR SILENCERS
- HINGES

SET#02
- CLOSERS
- STORAGE LOCKSET WITH KEY
- THRESHOLD
- WEATHER SEAL
- HINGES
- DOOR SILENCERS
- ELECTRIC STRIKE
- CARD READER

COORDINATE ALL KEYING AND ACCESS CONTROL REQUIREMENTS WITH OWNERS REPRESENTATIVE

DOOR TYPES

SINGLE FLUSH



A

TOILET ACCESSORY SCHEDULE

ROOM #	ROOM NAME	ACCESSORY TYPE	QTY	INSTALLATION
105	TOILET	FRAMED MIRROR-1	1	CFCI
105	TOILET	GRAB BAR-1	1	CFCI
105	TOILET	GRAB BAR-2	2	CFCI
105	TOILET	GRAB BAR-3	1	CFCI
105	TOILET	SANITARY NAPKIN DISPOSAL-1	1	CFCI
105	TOILET	SEAT COVER DISPENSER-1	1	CFCI
105	TOILET	SOAP DISPENSER-1	1	CFCI
105	TOILET	TOILET TISSUE DISPENSER-1	1	CFCI
105	TOILET	TOWEL DISPENSER-1	1	CFCI
106	TOILET	FRAMED MIRROR-1	1	CFCI
106	TOILET	GRAB BAR-1	1	CFCI
106	TOILET	GRAB BAR-2	2	CFCI
106	TOILET	GRAB BAR-3	1	CFCI
106	TOILET	SANITARY NAPKIN DISPOSAL-1	1	CFCI
106	TOILET	SOAP DISPENSER-1	1	CFCI
106	TOILET	TOILET TISSUE DISPENSER-1	1	CFCI
106	TOILET	TOWEL DISPENSER-1	1	CFCI
107	TOILET	FRAMED MIRROR-1	1	CFCI
107	TOILET	GRAB BAR-1	1	CFCI
107	TOILET	GRAB BAR-2	1	CFCI
107	TOILET	GRAB BAR-3	1	CFCI
107	TOILET	SANITARY NAPKIN DISPOSAL-1	1	CFCI
107	TOILET	SEAT COVER DISPENSER-1	1	CFCI
107	TOILET	SOAP DISPENSER-1	1	CFCI
107	TOILET	TOILET TISSUE DISPENSER-1	1	CFCI
107	TOILET	TOWEL DISPENSER-1	1	CFCI
108	TOILET	FRAMED MIRROR-1	1	CFCI
108	TOILET	GRAB BAR-1	1	CFCI
108	TOILET	GRAB BAR-2	1	CFCI
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108	TOILET	TOWEL DISPENSER-1	1	CFCI
109	TOILET	FRAMED MIRROR-1	1	CFCI
109	TOILET	GRAB BAR-1	1	CFCI
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109	TOILET	GRAB BAR-3	1	CFCI
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109	TOILET	SOAP DISPENSER-1	1	CFCI
109	TOILET	TOILET TISSUE DISPENSER-1	1	CFCI
109	TOILET	TOWEL DISPENSER-1	1	CFCI
110	TOILET	FRAMED MIRROR-1	1	CFCI
110	TOILET	GRAB BAR-1	1	CFCI
110	TOILET	GRAB BAR-2	2	CFCI
110	TOILET	GRAB BAR-3	1	CFCI
110	TOILET	SANITARY NAPKIN DISPOSAL-1	1	CFCI
110	TOILET	SOAP DISPENSER-1	1	CFCI
110	TOILET	TOILET TISSUE DISPENSER-1	1	CFCI
110	TOILET	TOWEL DISPENSER-1	1	CFCI

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Schedules

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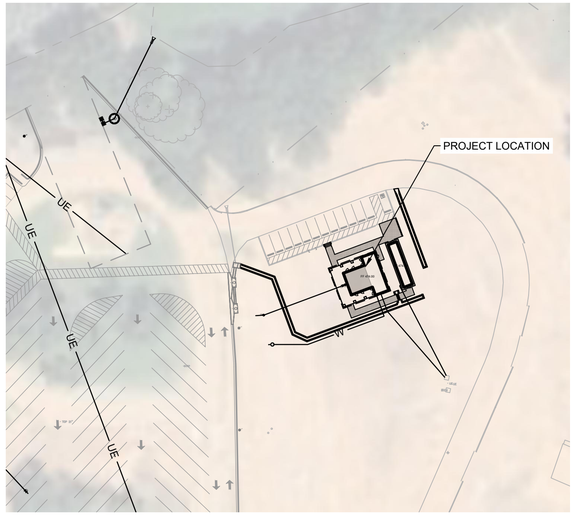
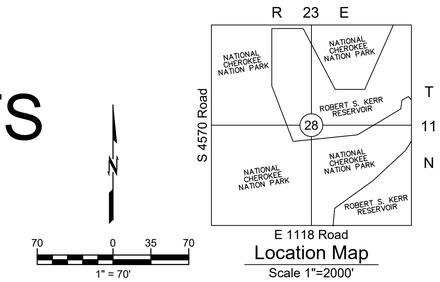
CHEROKEE NATION
SALLISAW PARK IMPROVEMENTS

457959 E. 1118 ROAD,
SALLISAW, OK 74955





Location Map
Scale 1"=2000'

SEQUOYAH COUNTY
OKLAHOMA

GENERAL NOTES:

1. CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEPT ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.
3. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS, AND REGULATIONS OF THE CITY OF SALLISAW, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, AND STATE DEPARTMENT OF TRANSPORTATION, AND/OR THE APPROPRIATE LOCAL AUTHORITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, TAP FEES, ETC.
6. ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
7. RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.
8. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

EXCAVATION NOTIFICATION

1. ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS).
2. CONTRACTORS TO CALL 811 (OR VISIT CALL811.COM) TO REQUEST UTILITY LOCATES. ONCE COMPLETION OF MARKINGS HAS BEEN CONFIRMED BY THE CONTRACTOR, NO AUTOMATED OR MECHANICAL EQUIPMENT SHOULD BE USED WITHIN TWO FEET ON EITHER SIDE OF THE MARKINGS (OR ANOTHER MORE STRINGENT TOLERANCE AS DIRECTED), AND EXISTING FACILITIES MUST BE EXPOSED BY HAND.
3. EXISTING UTILITY LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

UNANTICIPATED SOIL CONDITIONS

1. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT THE SPECIFIED SUBGRADE DEPTHS, THE CONTRACTOR SHALL NOTIFY THE OWNER. SOIL SUBGRADES WHICH ARE UNSTABLE DUE TO INADEQUATE CONSTRUCTION DEWATERING OR EXCESSIVE SUBGRADE DISTURBANCE ARE NOT DEEMED UNSUITABLE SOILS.
2. FILL SOIL THAT IS NOT WITHIN +/- 2% OPTIMUM MOISTURE FOR COMPACTION OF THE PARTICULAR MATERIAL IN PLACE AS DETERMINED BY THE OWNER'S REPRESENTATIVE AND IS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SO THAT PROPER COMPACTION CANNOT BE REACHED SHALL NOT BE CONSTRUED AS UNSUITABLE BEARING MATERIAL.
3. THE CONTRACTOR SHALL FOLLOW A CONSTRUCTION PROCEDURE WHICH PERMITS VISUAL IDENTIFICATION OF FIRM NATURAL GROUND.
4. SURFACE RUNOFF: SURFACE WATER ON AND AROUND THE SITE SHALL BE COLLECTED INTO LOCAL SUMPS BY MEANS OF TRENCHES, PIPES, ETC., AND PUMPED INTO THE STORM WATER SYSTEM. USE APPROPRIATE FILTRATION OR SEDIMENTATION TO PREVENT PUMPING OF SUSPENDED SOLIDS INTO THE STORM SEWER. A PERMIT MUST BE OBTAINED FOR SUCH PUMPING.
5. DEWATERING OF TRENCHES AND EXCAVATIONS: TRENCHES AND EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER AT ALL TIMES. PUMPING IS TO BEGIN AS SOON AS WATER BEGINS TO ACCUMULATE AND IS TO CONTINUE UNTIL WATER IS REMOVED.

SITE ACCESSIBILITY

1. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, ACCESSIBLE PARKING, AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE APPLICABLE ACCESSIBILITY CODES [AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES; THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) PUBLISHED IN THE FEDERAL REGISTER AUGUST 2023; INTERNATIONAL BUILDING CODE (IBC); ICC A117.1; ETC.]
2. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THESE GUIDELINES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THESE GUIDELINES WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THESE GUIDELINES, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. GENERAL SLOPE GUIDANCE:
   - 3.1. CROSS SLOPES SHALL NOT EXCEED 1:50 (2.0%). PREFERRED SLOPE IS 1.5%.
   - 3.2. RUNNING SLOPES SHALL NOT EXCEED 5% EXCEPT AT RAMPS. PREFERRED MAXIMUM SLOPE IS 4.5%.
   - 3.3. RAMP RUNNING SLOPES SHALL NOT EXCEED 1:12 (8.3%). PREFERRED MAXIMUM SLOPE IS 7.8%.
   - 3.4. SLOPES AT LANDINGS, ACCESSIBLE PARKING STALLS, AND ACCESSIBLE AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION. PREFERRED MAXIMUM SLOPE IS 1.5%.
   - 3.5. EXCEPTIONS WITHIN THE PUBLIC RIGHT-OF-WAY: WHERE THE ESTABLISHED ADJACENT STREET GRADE EXCEEDS 5%, RUNNING SLOPES PARALLEL TO THE STREET SLOPES SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET. CURB RAMP RUNNING SLOPE CAN EXCEED 8.3% TO LIMIT THE RESULTING THE RAMP LENGTH TO 15 FEET.

GEOTECHNICAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY PALMERTON AND PARRISH, INC. DATED 07/01/2019.

SURVEY

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ARE SHOWN PER THE FIELD SURVEY PERFORMED BY WALLACE DESIGN COLLECTIVE DATED 10/17/2024.

CONTACTS:

ENGINEER:
WALLACE DESIGN COLLECTIVE, PC
123 N. MARTIN LUTHER KING. JR. BLVD
TULSA, OK 74103
918.584.5858

OWNER:
NATHAN LIMORE
CHEROKEE NATION BUSINESSES
777 WEST CHEROKEE
CATOOSA, OK 74015
NATHAN.LIMORE@CN-BUS.COM

ELECTRIC WATER SEWER
CITY OF SALLISAW
115 E. CHOCTAW
SALLISAW, OK 74955
918.775.6241

FIRE:
OKLAHOMA STATE FIRE MARSHALL
2401 NW 23RD, SUITE 4
OKLAHOMA CITY, OK 73107
405.522.5005

GAS:
ARKANSAS OKLAHOMA GAS COMPANY
ALLEN SOPHIRE
115 N, 12TH STREET
FORT SMITH, AR
479.783.3181

SHEET INDEX

TOTAL DISTURBED AREA	.72 ACRES
EXISTING IMPERVIOUS AREA	0 SF
PROPOSED IMPERVIOUS AREA	4,924 SF
INCREASE IN IMPERVIOUS AREA	4,924 SF

LEGEND

ABBREVIATIONS

(M)	MEASURED DATA
(R)	RECORD DATA
BC	BACK OF CURB
BL	BUILDING LINE
CL	CENTERLINE
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GL	GUTTER LINE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
ME	MATCH EXISTING
RW	RIGHT-OF-WAY
SF	SQUARE FEET
SY	SQUARE YARDS
TBK	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TOE	TOE OF BANK
TP	TOP OF PAVEMENT
TR	TOP OF RIM
TS	TOP OF SIDEWALK
TW	TOP OF WALL

LINETYPES

CENTERLINE
SF — SILT FENCE
LIMITS OF CONSTRUCTION
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EASEMENT
X — X — FENCE
PROPERTY LINE
LOT LINE
BUILDING SETBACK
FO — FIBER OPTIC
OC — OVERHEAD COMMUNICATION
UC — UNDERGROUND COMMUNICATION
OE — OVERHEAD ELECTRIC
UE — UNDERGROUND ELECTRIC
G — NATURAL GAS
FM — SEWER FORCE MAIN
SS — SANITARY SEWER MAIN
SSL — SANITARY SEWER SERVICE
DRAINAGE AREA, MAJOR
DRAINAGE AREA, MINOR
DRAINAGE FLOW PATH
SD — STORM DRAINAGE PIPE
F — FIRE LINE
W — WATER LINE
WSL — WATER SERVICE LINE
IRR — IRRIGATION LINE

SYMBOLS

UTILITY POLE
LIGHT POLE
GUY ANCHOR
ELECTRIC BOX
ELECTRIC METER
ELECTRIC TRANSFORMER
A/C UNIT
ELECTRIC MANHOLE
GAS METER
GAS VALVE
OIL/GAS WELLHEAD
VENT PIPE
PIPELINE MARKER
COMMUNICATION PEDESTAL
COMMUNICATION MANHOLE
SEWER CLEAN-OUT
SANITARY SEWER MANHOLE
DOWNSPOUT
ROOF DRAIN
STORM DRAIN MANHOLE
FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
IRRIGATION CONTROL VALVE
SHUT-OFF VALVE
SPRINKLER HEAD
WATER METER
WATER VALVE
YARD HYDRANT
PIPE BOLLARD
BENCHMARK
ACCESSIBLE PARKING
MAILBOX
MONITORING WELL
POTHOLE
SIGN

AS-BUILTS:

THE CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED INK) ALL CHANGES MADE TO THE APPROVED PLANS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS. CHANGES MADE BY THE ENGINEER OF RECORD, OR CHANGES REQUESTED BY REPRESENTATIVES OF THE JURISDICTIONS HAVING AUTHORITY. ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE ENGINEER OF RECORD PER AN RFI SUBMITTAL PROCESS. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE ENGINEER OF RECORD AFTER FINAL INSPECTION OF THE PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF FINAL AS-BUILT RECORD DOCUMENTS.

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oklahoma ca1460
exp: 6-30-27

Cherokee Nation
Sallisaw Park Improvements
457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

07/22/2025

DATE
07.11.25

SHEET
COVER SHEET

C1.0

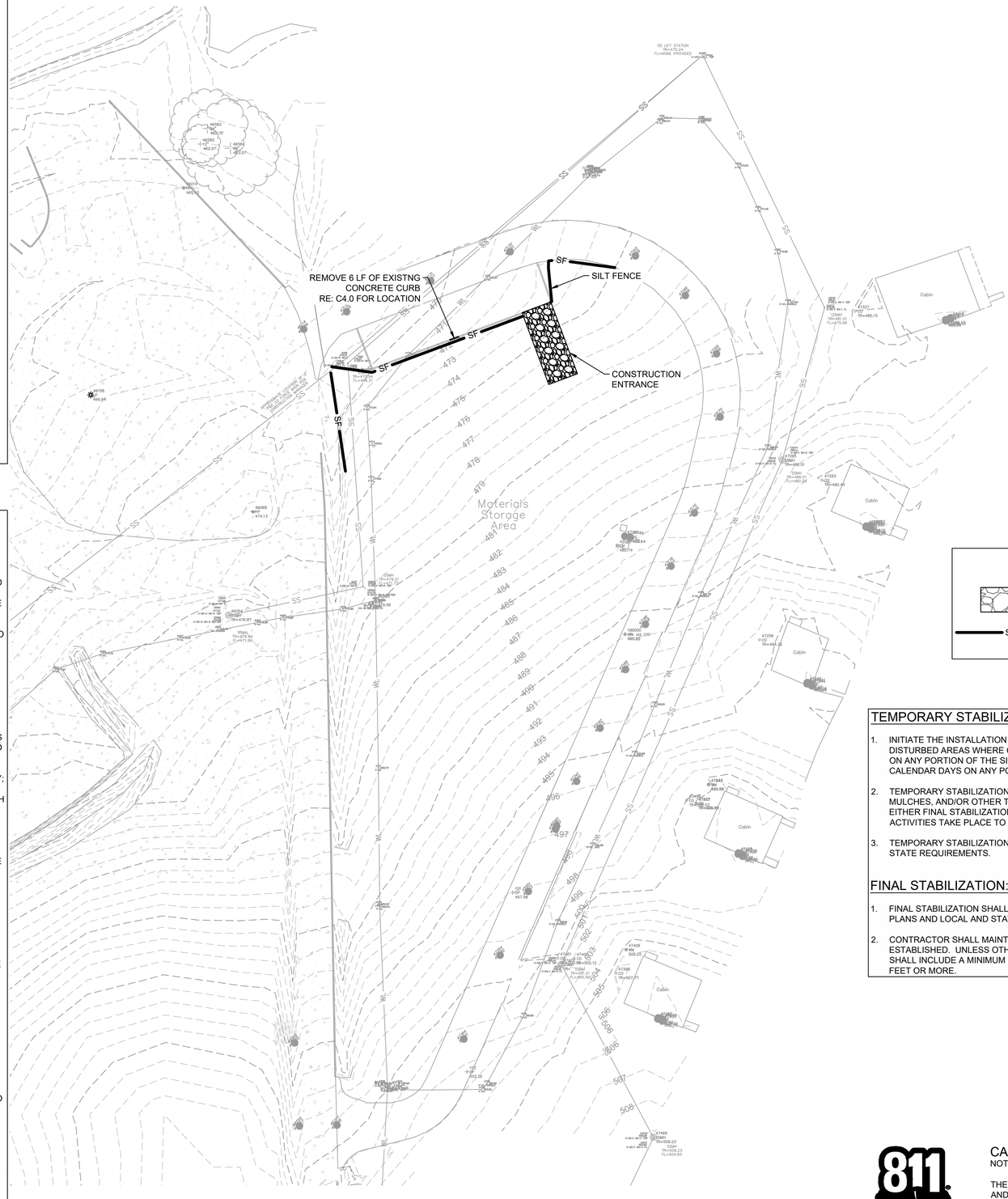
ORIG SIZE:22"X34"
PLOT:7/22/2025 8:50:58 AM
\\CIVIL-SERVER\Projects\2440476 CNB Sallisaw Creek National Park\Dwg\Production\Restroom Building\2440476 Cover Sheet (RR).dwg

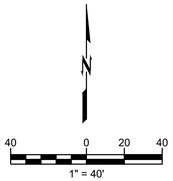
GENERAL DEMOLITION NOTES:

1. ALL CONCRETE AND ASPHALT NOTED FOR REMOVAL SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE.
2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
4. WITH PRIOR APPROVAL, CONTRACTOR MAY ESTABLISH AN ON-SITE STAGING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING STAGING AREA TO ITS ORIGINAL CONDITION. SECURITY OF STAGING AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ARCHITECT.
6. CONTRACTOR SHALL PROTECT ALL ABOVE GROUND UTILITY FEATURES NOT BEING REMOVED INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVES, AND INLETS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
7. TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH PER THE AUTHORITY HAVING JURISDICTION.
8. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANE CLOSURES, DETOURS, ETC. BOTH VEHICULAR AND PEDESTRIAN.
9. CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY SERVICE IF REQUIRED.
10. CONTRACTOR SHALL ENSURE CONSTRUCTION SITE HAS POSITIVE DRAINAGE THROUGHOUT THE DURATION OF CONSTRUCTION.
11. PRIOR TO UTILITY DEMOLITION COORDINATE WITH AUTHORITY HAVING JURISDICTION.
12. UTILITIES BEING REMOVED OR RELOCATED SHALL BE ISOLATED AND SERVICE DISCONNECTED PRIOR TO ANY DEMOLITION.
13. NO UTILITY INTERRUPTIONS WILL BE ALLOWED WITHOUT CONSENT OF THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT A MINIMUM OF FOUR WORKING DAYS PRIOR TO THE REQUESTED SHUT DOWN.

GENERAL EROSION CONTROL NOTES:

1. ALL GRADING AND EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF SALLISAW STANDARDS AND SPECIFICATIONS AND STATE PERMITTING REQUIREMENTS, RE: ODEQ PERMIT OKR10.
2. THE PERMITTEE SHALL BE RESPONSIBLE FOR NOTIFYING THE LAND OWNER AND EACH CONTRACTOR OR ENTITY (INCLUDING UTILITY CREWS AND CITY EMPLOYEES OR THEIR AGENTS) WHO WILL PERFORM WORK AT THE SITE OF THE WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON-SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BMP. THE PERMITTEE IS RESPONSIBLE FOR ANY DAMAGE A SUBCONTRACTOR MAY DO TO ESTABLISHED BMPS AND ANY SUBSEQUENT WATER QUALITY VIOLATION RESULTING FROM THE DAMAGE.
3. ENSURE THE DESIGN, INSTALLATION, AND MAINTENANCE OF EFFECTIVE EROSION AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED, AND MAINTAINED TO:
   - 3.1. CONTROL STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES WITHIN THE SITE TO MINIMIZE SOIL EROSION;
   - 3.2. CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION AND SCOUR;
   - 3.3. MINIMIZE THE AMOUNT OF EXPOSED SOIL DURING CONSTRUCTION ACTIVITY;
   - 3.4. MINIMIZE THE DISTURBANCE OF STEEP SLOPES;
   - 3.5. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. ADDRESS FACTORS SUCH AS:
   - 3.6. PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS
   - 3.7. DIRECT STORMWATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION AND FILTERING, UNLESS INFEASIBLE; AND
   - 3.8. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL WHERE PRACTICABLE
4. INSTALLATION OF BMPS NECESSARY TO PREVENT SOIL EROSION AND SEDIMENTATION AT THE DOWNGRADIENT PROJECT BOUNDARY (E.G. BUFFERS, PERIMETER CONTROLS, EXIT POINT CONTROLS, STORM DRAIN INLET PROTECTION) MUST BE COMPLETE PRIOR TO THE START OF ALL PHASES OF CONSTRUCTION. BY THE TIME CONSTRUCTION ACTIVITY IN ANY GIVEN PORTION OF THE SITE BEGINS, DOWNGRADIENT BMPS MUST BE INSTALLED AND OPERATIONAL TO CONTROL DISCHARGES FROM THE INITIAL SITE CLEARING, GRADING, EXCAVATING, AND OTHER EARTH-DISTURBING ACTIVITIES. ADDITIONAL BMPS SHALL BE INSTALLED AS NECESSARY THROUGHOUT THE LIFE OF THE PROJECT. FOLLOWING THE INSTALLATION OF THESE INITIAL BMPS, ALL BMPS NEEDED TO CONTROL DISCHARGES SHALL BE INSTALLED AND MADE OPERATIONAL PRIOR TO SUBSEQUENT EARTH DISTURBING ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STABILIZED CONSTRUCTION ENTRANCE AND FOR CLEANING OF VEHICLE WHEELS IN ACCORDANCE WITH THE CITY OF SALLISAW STANDARDS AND SPECIFICATIONS.
6. SILT FENCES: PLACEMENT OF SILT FENCES SHALL BE AS SHOWN ON THESE PLANS. FENCING WHICH BECOMES DAMAGED SHALL BE REPLACED PROMPTLY. DEPOSITS OF SILT WHICH BUILD UP BEHIND DIKES MAY BE DISKED ONTO THE SITE BEFORE PLACEMENT OF TEMPORARY COVER. AFTER TEMPORARY COVER IS PLACED OR AFTER LANDSCAPING COMMENCES, SILT SHALL BE REMOVED AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.
7. UNLESS LOCAL OR STATE REQUIREMENTS NECESSITATE MORE FREQUENT MONITORING, CONTRACTOR SHALL INSPECT EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH (EXCLUSIVE OF HOLIDAYS). THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SEDIMENT, AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS POSSIBLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS.





LEGEND

- STABILIZED CONSTRUCTION ENTRANCE RE: 5/C8.0
- SF — SILT FENCE RE: 1/C8.0

TEMPORARY STABILIZATION:

1. INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS ON ANY PORTION OF THE SITE.
2. TEMPORARY STABILIZATION SHALL INCLUDE TEMPORARY SEEDING, GEOTEXTILES, MULCHES, AND/OR OTHER TECHNIQUES TO REDUCE OR ELIMINATE EROSION UNTIL EITHER FINAL STABILIZATION CAN BE ACHIEVED OR UNTIL FURTHER CONSTRUCTION ACTIVITIES TAKE PLACE TO RE-DISTURB THIS AREA.
3. TEMPORARY STABILIZATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.

FINAL STABILIZATION:

1. FINAL STABILIZATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LANDSCAPE PLANS AND LOCAL AND STATE REQUIREMENTS.
2. CONTRACTOR SHALL MAINTAIN PERENNIAL VEGETATION UNTIL UNIFORM COVER IS ESTABLISHED. UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS, THIS SHALL INCLUDE A MINIMUM OF 70% COVERAGE AND NO BARE AREAS OF 10 SQUARE FEET OR MORE.

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REVISIONS

LICENSED PROFESSIONAL ENGINEER
NICK MASON
31309
OKLAHOMA
07/22/2025

DATE
07.11.25

SHEET
DEMOLITION AND EROSION CONTROL PLAN

C3.0

ORIG SIZE:22"X34"

PLOT:7/22/2025 8:51:01 AM

\\CIVIL-SERVER\Projects\2440476 CNB Sallisaw Creek National Park\Dwg\Production\Restroom Building\2440476 Demo&ErosionControlPlan.dwg

GENERAL SITE NOTES:

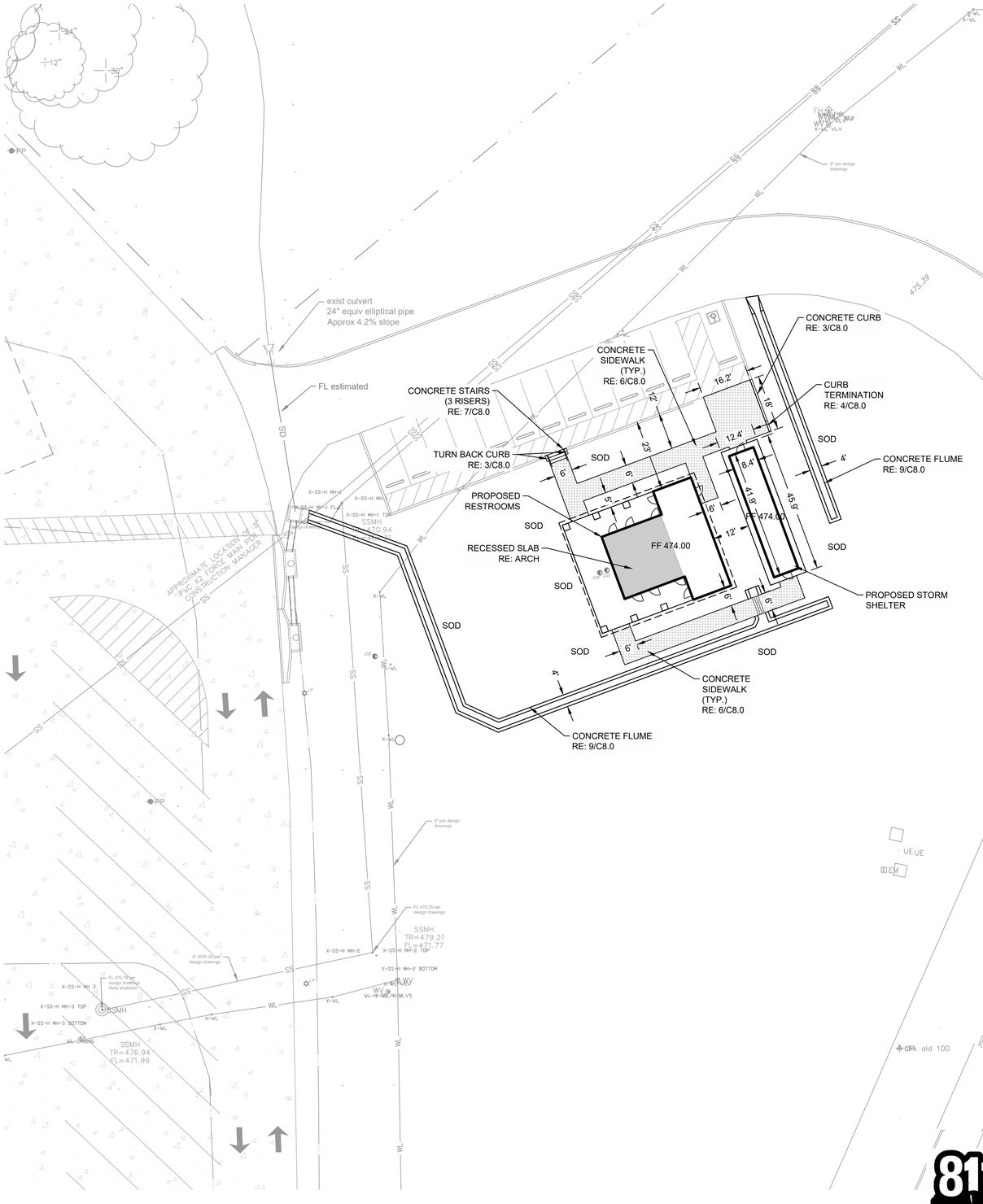
1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
4. ALL DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB UNLESS SHOWN OTHERWISE.
5. RADII = 2'-0" UNLESS OTHERWISE INDICATED.

GENERAL PAVING NOTES:

1. ALL MATERIALS, EXECUTION, AND TESTING TO CONFORM TO AHJ REQUIREMENTS (I.E. LOCAL OR STATE DOT STANDARDS AND SPECIFICATIONS).
2. ALL PAVING AND EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
3. CONTRACTOR TO PROVIDE PRODUCT DATA SUBMITTALS INCLUDING, BUT NOT LIMITED TO, DESIGN MIXES, MATERIAL CERTIFICATES, AND MATERIAL TEST REPORTS FOR MATERIALS AND PRODUCTS ASSOCIATED WITH PAVING AND PAVEMENT MARKING OPERATIONS.
4. CONTRACTOR SHALL DEVELOP AND IMPLEMENT PROPER TRAFFIC CONTROL IN CONFORMANCE WITH THE LATEST REVISION OF THE MUTCD. ACCESS FOR EMERGENCY VEHICLES AND LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. PAVEMENT SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND TO THE GRADES AND ELEVATIONS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
6. PAVEMENT CONTRACTOR TO INSPECT PAVEMENT SUBGRADE AND CORRECT ANY DEFICIENCIES PRIOR TO PAVING OPERATIONS.
7. CONTRACTOR TO COORDINATE CONSTRUCTION TESTING UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.

CONCRETE PAVEMENT:

8. CONCRETE PLACEMENT TO CONFORM TO ACI 301 / 306 / 330 REQUIREMENTS.
9. CONCRETE MATERIAL:
   - 9.1. 28 DAY COMPRESSIVE STRENGTH: 4000 PSI MINIMUM
   - 9.2. MAXIMUM W/C RATIO AT POINT OF PLACEMENT: 0.45
   - 9.3. SLUMP: 4 INCHES PLUS OR MINUS 1 INCH
   - 9.4. AIR CONTENT: 6 PERCENT PLUS OR MINUS 1-1/2 PERCENT
10. STEEL:
    - 10.1. GRADE 60
    - 10.2. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATION, PLACEMENT, AND SUPPORT.
11. JOINTS:
    - 11.1. FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. WHEN JOINING EXISTING PAVING, PLACE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS UNLESS OTHERWISE INDICATED.
    - 11.2. FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING LIGHT STANDARD FOUNDATIONS, MANHOLES, INLETS, STRUCTURES, OR OTHER FIXED OBJECTS. EXTEND JOINT FILLERS THE FULL WIDTH AND DEPTH OF PAVEMENT.
    - 11.3. CONTRACTION JOINT DEPTH TO BE 1/4 OF THE TOTAL CONCRETE THICKNESS.
    - 11.4. JOINTS SHOULD EXTEND THROUGH ADJACENT CURB AND GUTTER.
12. JOINT SPACING
    - 12.1. JOINT SPACING SHALL NOT EXCEED 24 TO 30 TIMES THE PAVEMENT THICKNESS (E.G. 0.5' THICK CONCRETE x 30 = 15' MAXIMUM JOINT SPACING) WITH A MAXIMUM SPACING OF 15 FEET.
    - 12.2. LAY OUT JOINTS TO FORM SQUARE PANELS. WHEN THIS IS NOT PRACTICAL, RECTANGULAR PANELS CAN BE USED, BUT THE LENGTH SHALL NOT BE MORE THAN 25% LONGER THAN THE WIDTH (E.G. A 15' LONG PANEL CANNOT BE WIDER THAN 12').
    - 12.3. CONTRACTOR TO SUBMIT A JOINT LAYOUT PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING PAVING OPERATIONS. CONTRACTOR TO TAKE INTO ACCOUNT REVIEW TIME AND CHANGES PER ANY COMMENTS WHEN SCHEDULING THE SUBMISSION OF THE JOINT LAYOUT PLAN.
13. REINFORCEMENT OF IRREGULARLY SHAPED PANELS OR MISMATCHED JOINTS
    - 13.1. ON PANELS WITH RADII, ON PANELS THAT TAPER TO A SHARP ANGLE, AND/OR WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 1.25, PROVIDE A MINIMUM OF 0.05 PERCENT STEEL IN BOTH DIRECTIONS ACROSS THE ENTIRE PANEL.
    - 13.2. WHERE JOINT PATTERNS OF ABUTTING PAVEMENTS DO NOT MATCH AND ARE NOT SEPARATED BY AN EXPANSION JOINT, PROVIDE A MINIMUM OF 0.05 PERCENT STEEL IN THE PAVEMENT OPPOSITE OF THE MISMATCHED JOINT FOR A DISTANCE OF THREE FEET BACK FROM THE JOINT ALONG THE FULL WIDTH OF THE PANEL.



LEGEND

CONCRETE SIDEWALK
RE: 5/C8.0

15. WHERE DIFFERENT THICKNESS PAVEMENTS ABUT, PROVIDE A THICKENED EDGE ON THE THINNER PAVEMENT SECTION WHICH TRANSITIONS TO THE THICKER PAVEMENT DEPTH ACROSS FOUR FEET.
16. PROVIDE MEDIUM TO FINE TEXTURED BROOM FINISH UNLESS OTHERWISE INDICATED ON THE PLANS.
17. INSTALLATION TOLERANCES
    - 17.1. ELEVATION: 1/4 INCH
    - 16.1. THICKNESS: PLUS 3/8 INCH, MINUS 1/4 INCH
    - 16.2. SURFACE: 1/4 INCH IN 10 FEET

PAVEMENT MARKINGS:

17. ALLOW PAVING TO AGE A MINIMUM OF 30 DAYS BEFORE STARTING PAVEMENT MARKING OPERATIONS.
18. PAVEMENT MARKING PAINT SHALL BE ACRYLIC, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH FS TT-P-1952, TYPE II, WITH A DRYING TIME OF LESS THAN THREE MINUTES.
19. COLOR AS INDICATED.

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REVISIONS

LICENSED PROFESSIONAL ENGINEER
NICK MASON
31309
OKLAHOMA
07/22/2025

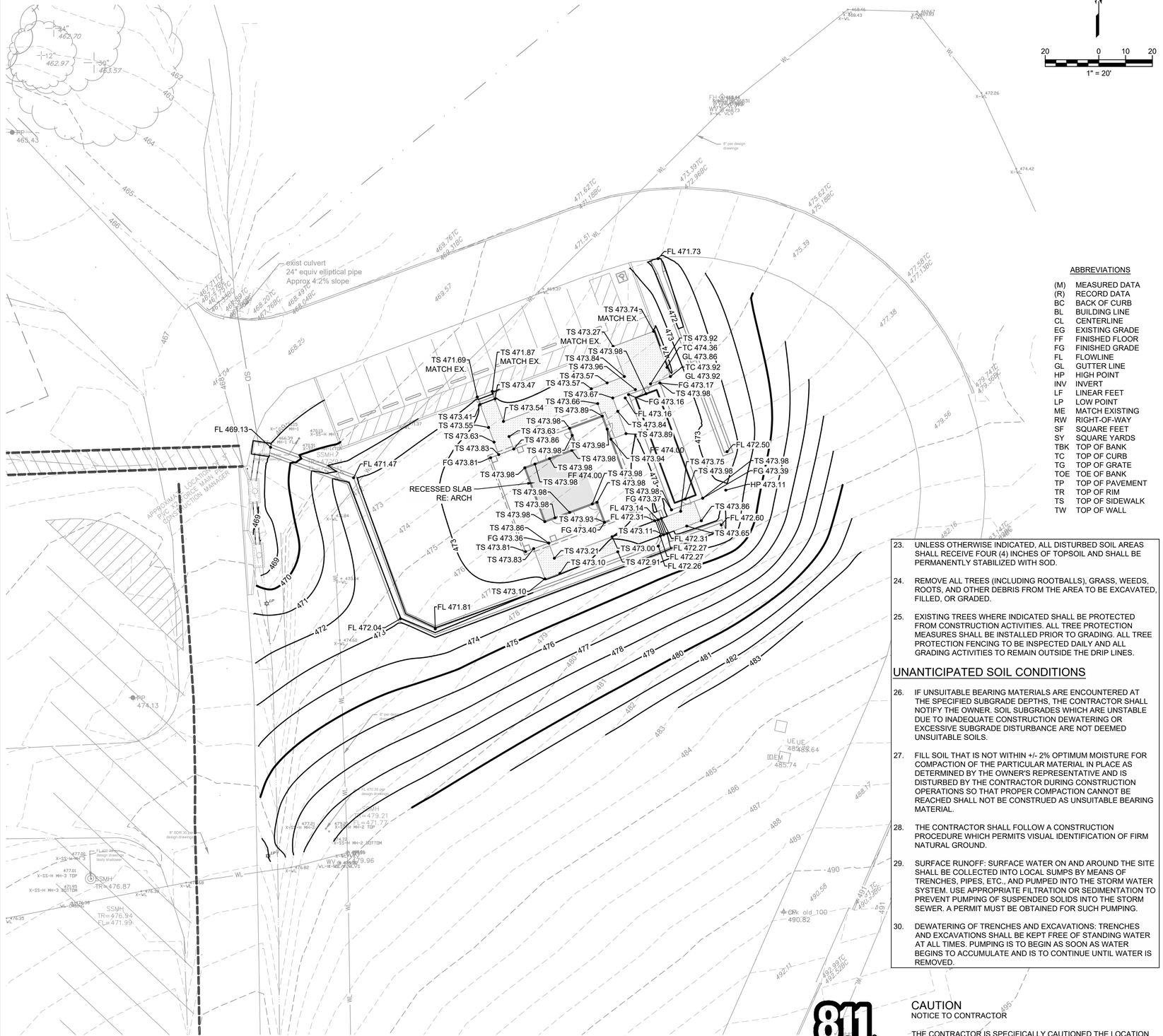
DATE
07.11.25

SHEET
SITE PLAN

C4.0

GENERAL GRADING NOTES:

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, INSPECTED, AND APPROVED BY LOCAL AUTHORITIES.
2. ALL BENCHMARKS, CONTROL POINTS, PROPERTY MARKERS, AND RIGHT-OF-WAY MONUMENTS DISTURBED OR DESTROYED SHALL BE RESET UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OKLAHOMA. ALL SURVEYING COSTS SHALL BE THE CONTRACTOR'S.
3. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
4. TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
5. REFERENCE GEOTECHNICAL ENGINEERING REPORT BY PALMERTON & PARRISH, INC.DATED 07/01/2019 FOR COMPLETE PAVING AND SUBGRADE RECOMMENDATIONS. CIVIL ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
6. UNDERCUTTING OF SOFT SPOTS AND PLACEMENT OF EARTHWORK IS GOVERNED FIRST BY THE GEOTECHNICAL REPORT. OBSERVATION AND TESTING SHALL BE PERFORMED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOFT SPOTS ARE PROPERLY OVEREXCAVATED AND REPLACED OR STABILIZED.
7. IF EXCAVATED MATERIAL IS UNSUITABLE FOR COMPACTION, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL FURNISH SUITABLE BORROW.
8. STRIPPING, PROOFROLLING, SUBGRADE SCARIFICATION, COMPACTION, AND FILL CONSTRUCTION IN THE BUILDING AND PAVING AREAS SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT. EMBANKMENT BENEATH BUILDING PADS OR FOR PAVING SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES AND COMPACTED TO A MINIMUM OF 98% AND 95% STANDARD PROCTOR DENSITY, RESPECTIVELY, AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SPECIFIED THEREIN. CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
9. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
10. PAVING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
11. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL STAKING NECESSARY TO INSTALL CONDUITS SUFFICIENT FOR UTILITY AND IRRIGATION SERVICES WHETHER OR NOT SHOWN ON THE CIVIL ENGINEER'S PLANS.
12. GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, ABRUPT CHANGES IN SLOPES SHALL BE WELL ROUNDED. THE CONTRACTOR IS RESPONSIBLE FOR POSITIVE SITE DRAINAGE.
13. CONTRACTOR IS RESPONSIBLE TO MEET AND MATCH NEW PAVEMENT WITH EXISTING ADJACENT PAVEMENT AREAS. THE TRANSITION BETWEEN THIS SITE AND ADJACENT SITES MUST BE SMOOTH AND MONOLITHIC. ALL GRADING MUST MEET AND MATCH GRADES ON ALL SIDES.
14. ACCESSIBLE ROUTES AND SIDEWALKS ARE NOT TO EXCEED 5% RUNNING SLOPE (EXCEPT AT RAMPS) AND 2% CROSS. ACCESSIBLE PARKING AND ACCESS AISLES NOT TO EXCEED 2% SLOPE IN ANY DIRECTION. ALL RAMPS SHALL COMPLY WITH THE APPLICABLE ACCESSIBLE DESIGN GUIDELINES.
15. ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.
16. LANDSCAPE ISLANDS TO BE FILLED WITH SOIL SUITABLE FOR VEGETATION. THE CONTRACTOR WILL ENSURE THAT NO PONDING WILL OCCUR AT LANDSCAPE ISLANDS. ALL SURFACE WATER MUST DRAIN AROUND THE ISLAND WITH POSITIVE SLOPE. NO WATER SHALL BE TRAPPED.
17. CONTRACTOR SHALL MEET AND MATCH TOP OF JUNCTION BOXES/MANHOLES OR CLEANOUTS WITH FINISHED PAVING GRADES. FINAL GRADES OF ABOVE SURFACE UTILITIES NOT IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO JUNCTION BOX/MANHOLE LIDS, WATER METER LIDS, AND SEWER CLEANOUTS, ARE TO BE ADJUSTED BY THE UTILITY CONTRACTOR TO CONFORM TO LANDSCAPING SOD INSTALLATIONS.
18. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS AT THE COMPLETION OF THE PROJECT.
19. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
20. ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
21. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
22. UNLESS OTHERWISE INDICATED, ALL DISTURBED SOIL AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL AND SHALL BE PERMANENTLY STABILIZED WITH SOD.



ABBREVIATIONS	
(M)	MEASURED DATA
(R)	RECORD DATA
BC	BACK OF CURB
BL	BUILDING LINE
CL	CENTERLINE
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GL	GUTTER LINE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
ME	MATCH EXISTING
RW	RIGHT-OF-WAY
SF	SQUARE FEET
SY	SQUARE YARDS
TBK	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TOE	TOE OF BANK
TP	TOP OF PAVEMENT
TR	TOP OF RIM
TS	TOP OF SIDEWALK
TW	TOP OF WALL

23. UNLESS OTHERWISE INDICATED, ALL DISTURBED SOIL AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL AND SHALL BE PERMANENTLY STABILIZED WITH SOD.
24. REMOVE ALL TREES (INCLUDING ROOTBALLS), GRASS, WEEDS, ROOTS, AND OTHER DEBRIS FROM THE AREA TO BE EXCAVATED, FILLED, OR GRADED.
25. EXISTING TREES WHERE INDICATED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES.

UNANTICIPATED SOIL CONDITIONS

26. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT THE SPECIFIED SUBGRADE DEPTHS, THE CONTRACTOR SHALL NOTIFY THE OWNER. SOIL SUBGRADES WHICH ARE UNSTABLE DUE TO INADEQUATE CONSTRUCTION DEWATERING OR EXCESSIVE SUBGRADE DISTURBANCE ARE NOT DEEMED UNSUITABLE SOILS.
27. FILL SOIL THAT IS NOT WITHIN +/- 2% OPTIMUM MOISTURE FOR COMPACTION OF THE PARTICULAR MATERIAL IN PLACE AS DETERMINED BY THE OWNER'S REPRESENTATIVE AND IS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SO THAT PROPER COMPACTION CANNOT BE REACHED SHALL NOT BE CONSTRUED AS UNSUITABLE BEARING MATERIAL.
28. THE CONTRACTOR SHALL FOLLOW A CONSTRUCTION PROCEDURE WHICH PERMITS VISUAL IDENTIFICATION OF FIRM NATURAL GROUND.
29. SURFACE RUNOFF: SURFACE WATER ON AND AROUND THE SITE SHALL BE COLLECTED INTO LOCAL SUMPS BY MEANS OF TRENCHES, PIPES, ETC., AND PUMPED INTO THE STORM WATER SYSTEM. USE APPROPRIATE FILTRATION OR SEDIMENTATION TO PREVENT PUMPING OF SUSPENDED SOLIDS INTO THE STORM SEWER. A PERMIT MUST BE OBTAINED FOR SUCH PUMPING.
30. DEWATERING OF TRENCHES AND EXCAVATIONS: TRENCHES AND EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER AT ALL TIMES. PUMPING IS TO BEGIN AS SOON AS WATER BEGINS TO ACCUMULATE AND IS TO CONTINUE UNTIL WATER IS REMOVED.

811 Know what's below. Call before you dig.

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.

20 0 10 20
1" = 20'

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Cherokee Nation
Sallisaw Park Improvements
457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

LICENSED PROFESSIONAL ENGINEER
NICK MASON
31309
OKLAHOMA
07/22/2025

DATE
07.11.25

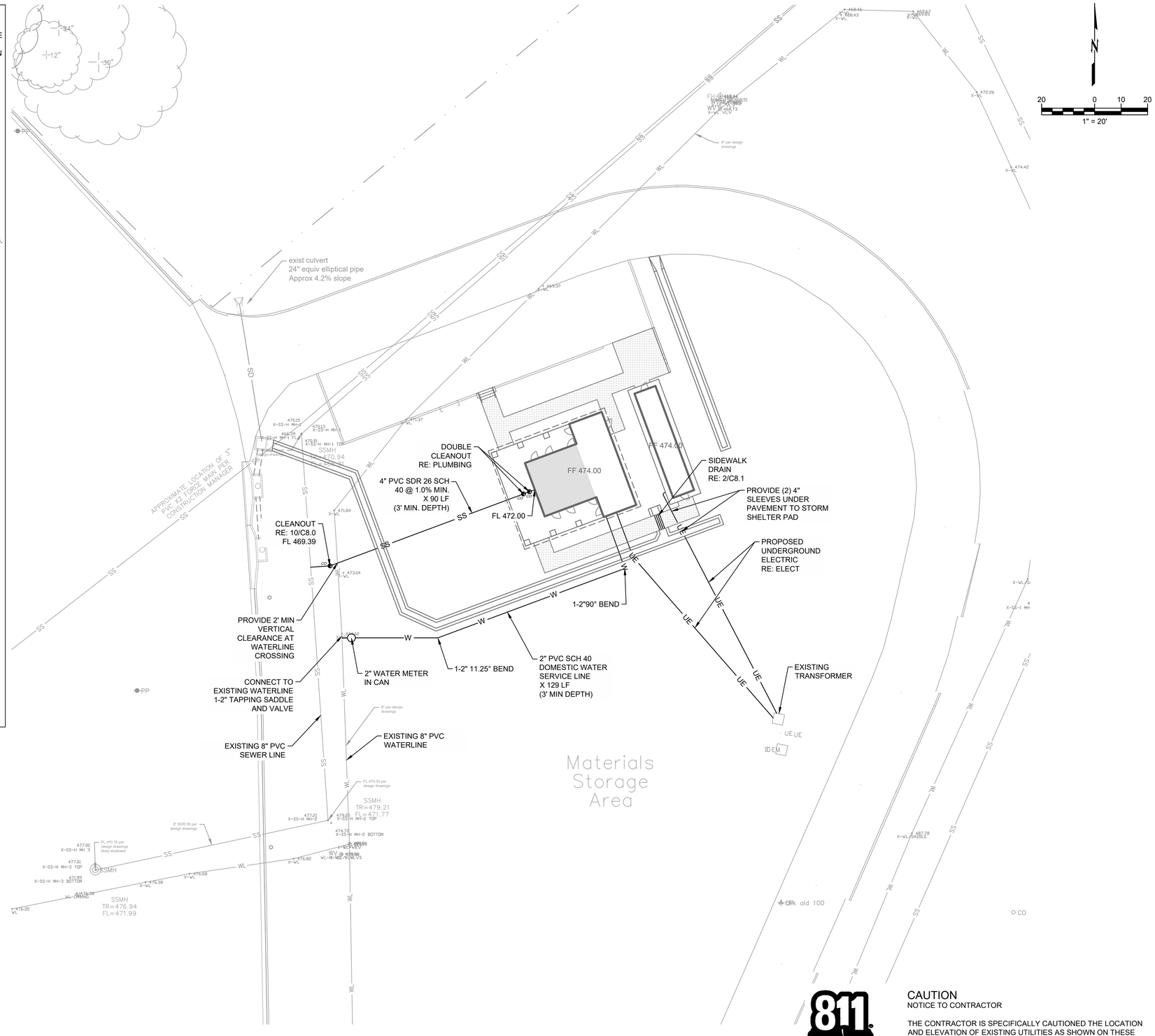
SHEET
GRADING PLAN

C5.0

ORIG SIZE:22"X34"
PLOT:7/22/2025 8:51:14 AM
\\CIVIL-SERVER\Projects\2440476 CNB Sallisaw Creek National Park\Dwg\Production\Restroom Building\2440476 Grading Plan (RR).dwg

GENERAL UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
2. THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/DEVELOPER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
3. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
5. NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: 7/C8.0.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING WHETHER OR NOT SHOWN ON CIVIL PLANS. THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
8. CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
10. CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN OR PHOTOMETRIC PLAN (BY OTHERS) FOR ALL SITE LIGHTING CONSTRUCTION DETAILS, REQUIREMENTS, AND FINAL POLE LOCATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ADJUSTMENTS TO POLE LOCATIONS AS NECESSARY TO AVOID OBSTRUCTIONS (I.E.. UNDERGROUND UTILITIES, SIDEWALKS, ETC…). CONTRACTOR SHALL POT HOLE EACH LOCATION WHERE A NEW LIGHT POLE IS TO BE PLACED PRIOR TO CONSTRUCTION TO VERIFY THERE ARE NO CONFLICTS WITH EXISTING UTILITIES. IF DAMAGES OCCUR TO EXISTING UTILITIES THEY WILL REPLACE OR REPAIR AT THEIR OWN EXPENSE. POLE LOCATIONS MAY NOT BE ADJUSTED WITHOUT PRIOR APPROVAL FROM THE ENGINEERS SINCE A CHANGE IN LOCATION CAN IMPACT THE INTENDED PHOTOMETRIC DESIGN.
11. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER. COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.



CAUTION
NOTICE TO CONTRACTOR

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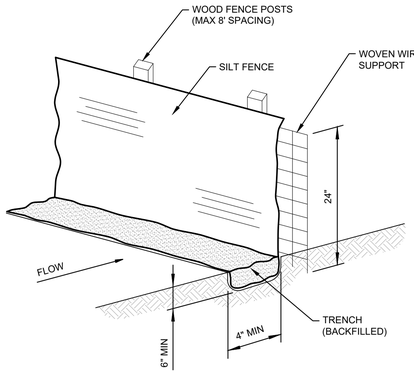
Cherokee Nation
Sallisaw Park Improvements
457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

NICK MASON 31309 LICENSED PROFESSIONAL ENGINEER OKLAHOMA
07/22/2025

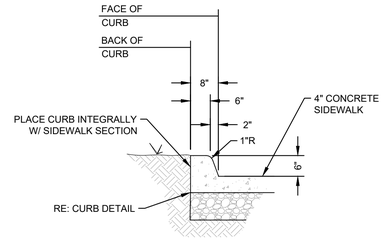
DATE 07.11.25
SHEET UTILITY PLAN
C6.0



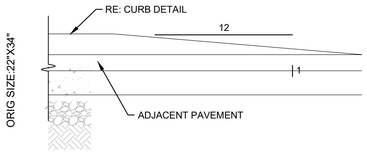
POSTS SHALL BE INSTALLED AT A SLIGHT ANGLE AGAINST THE FLOW
SILT FENCE SHALL BE SECURELY FASTENED TO EACH POST OR TO THE WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE FENCE POSTS

1 SILT FENCE
SCALE: NTS

2 NOT USED
SCALE: NTS

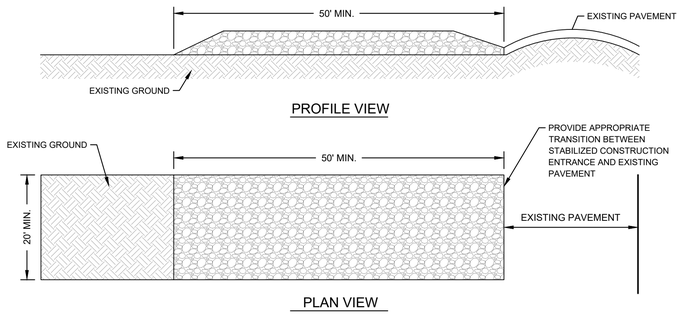


3 INTEGRAL CURB AND SIDEWALK
SCALE: NTS



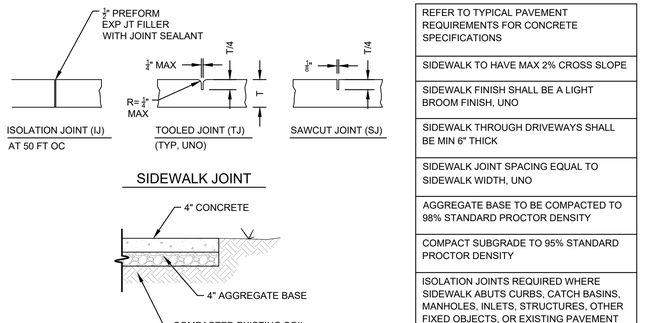
6' TERMINATION

4 CURB TERMINATION
SCALE: NTS



STONE SIZE AASHTO DESIGNATION M43, SIZE NO. 1 (2-1/2" TO 1-1/2"). USE CRUSHED STONE
LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
WIDTH - NOT LESS THAN WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS. FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

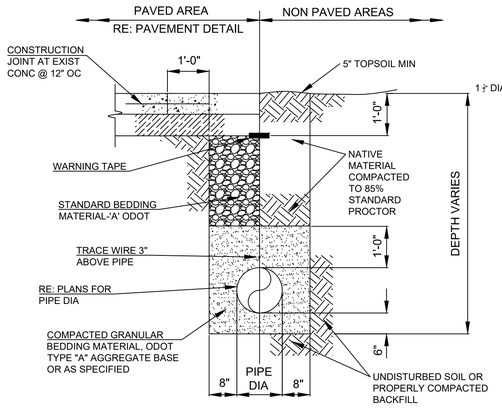
5 STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



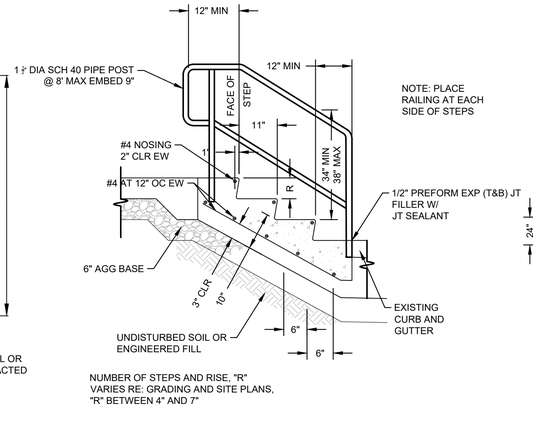
REFER TO TYPICAL PAVEMENT REQUIREMENTS FOR CONCRETE SPECIFICATIONS
SIDEWALK TO HAVE MAX 2% CROSS SLOPE
SIDEWALK FINISH SHALL BE A LIGHT BROOM FINISH, UNO
SIDEWALK THROUGH DRIVEWAYS SHALL BE MIN 6" THICK
SIDEWALK JOINT SPACING EQUAL TO SIDEWALK WIDTH, UNO
AGGREGATE BASE TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY
COMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY
ISOLATION JOINTS REQUIRED WHERE SIDEWALK ABUTS CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, OR EXISTING PAVEMENT

6 SIDEWALK
SCALE: NTS

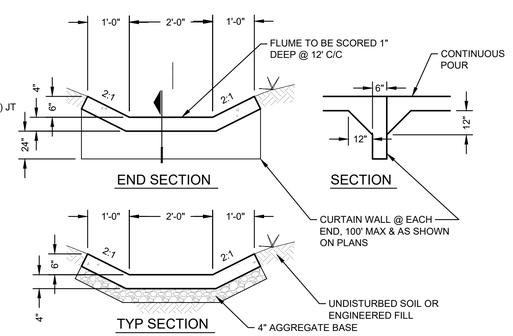
TRENCH NOTE: BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.
BEDDING NOTE: UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.
TRACE WIRE NOTE: INSTALL TRACE WIRE ON VALVES AND FIRE HYDRANTS



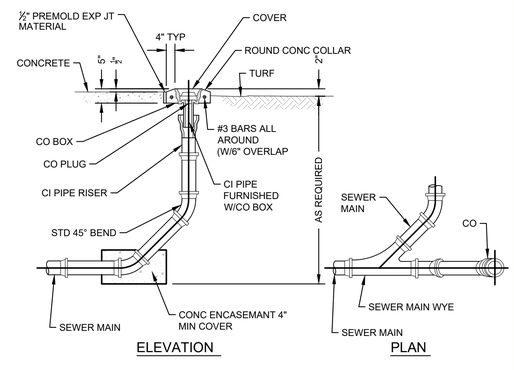
7 PIPE TRENCH-ALL PIPES EXCEPT STORM SEWER
SCALE: NTS



8 CONCRETE STEP DETAIL
SCALE: NTS



9 CONCRETE FLUME
SCALE: NTS



10 CLEANOUT
SCALE: NTS

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Sallisaw Park Improvements

Cherokee Nation

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

LICENSED PROFESSIONAL ENGINEER
NICK MASON
31309
OKLAHOMA
07/22/2025

DATE
07.11.25

SHEET
DETAILS

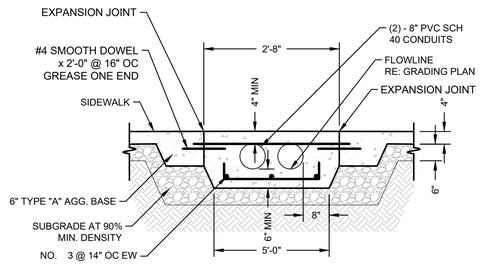
C8.0

SUBGRADE AND AGG BASE
9" SCARIFY AND RECOMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY
STABILIZE SUBGRADE WITH 4-7% HYDRATED LIME OR CEMENT KILN DUST
STABILIZE SUBGRADE WITH 12-14% FLY ASH
10" ENGINEERED FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY
ENGINEERED FILL SPECIFICATIONS 1. MATERIAL WITH A MAXIMUM DRY DENSITY IN EXCESS OF 100 PCF 2. PLASTICITY INDEX (PI) MAXIMUM OF 18 3. LIQUID LIMIT (LL) MAXIMUM OF 40 4. CONTAINING AT LEAST 15 PERCENT FINES (MATERIAL PASSING THE NO.200, BASED ON DRY WEIGHT) 5. SHALL NOT CONTAIN ROCK FRAGMENTS GREATER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. 6. PRIOR TO ANY FILLING OPERATIONS, SAMPLES WILL NEED TO BE TESTED BY AND APPROVED BY GEOTECH ENGINEER.
AGGREGATE BASE TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY

CONCRETE PAVEMENT AND SIDEWALKS
FLY ASH OR POZZOLAN NOT PERMITTED
COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
MAX WATER-CEMENTITIOUS RATIO AT POINT OF PLACEMENT: 0.45
SLUMP LIMIT: 4" PLUS OR MINUS 1"
AIR CONTENT: 6% PLUS OR MINUS 1.5%
CALCIUM CHLORIDE SHALL NOT BE PERMITTED IN CONCRETE MIXTURES
CHEMICAL ADMIXTURES TO MEET DOT SPECS FOR HIGHWAY CONSTRUCTION
CEMENTITIOUS MATERIALS TO CONFORM TO THE DOT SPECIFICATION FOR HIGHWAY CONSTRUCTION; LIMIT PERCENTAGE BY WEIGHT OF CEMENTITIOUS MATERIAL OTHER THAN PORTLAND CEMENT ACCORDING TO ACI 301 REQUIREMENTS

1 TYPICAL PAVEMENT REQUIREMENTS

SCALE: NTS



2 SIDEWALK DRAIN

SCALE: NTS

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Improvements

Cherokee Nation

Sallisaw Park

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

LICENSED PROFESSIONAL ENGINEER
NICK MASON
31309
OKLAHOMA
07/22/2025

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07.11.25

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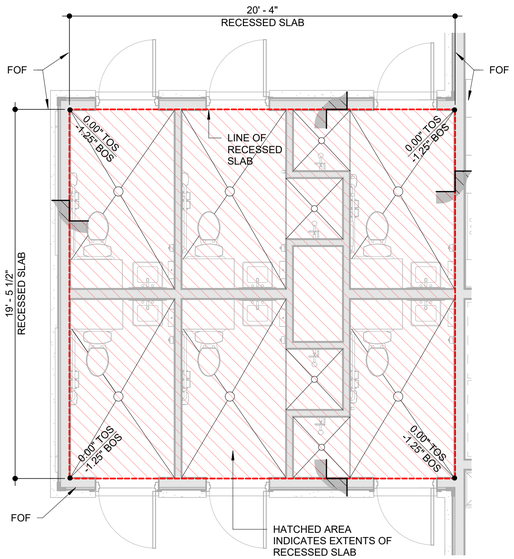
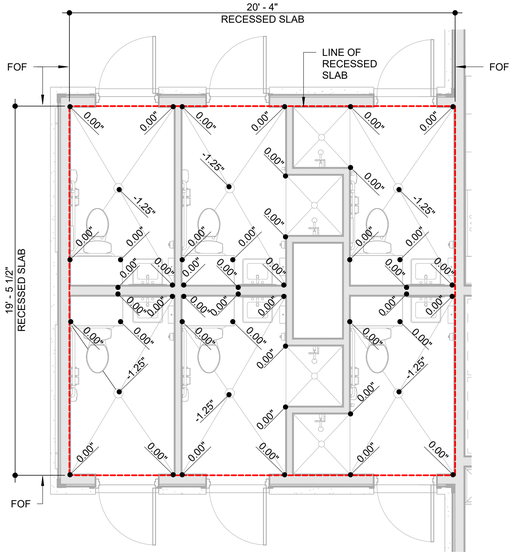
DETAILS

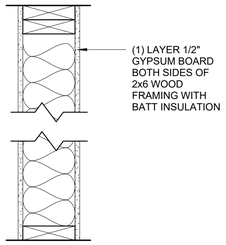
C8.1



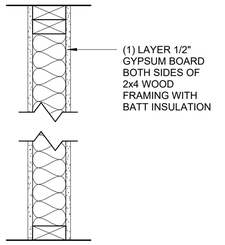
4 RECESSED SLAB
1/4" = 1'-0"



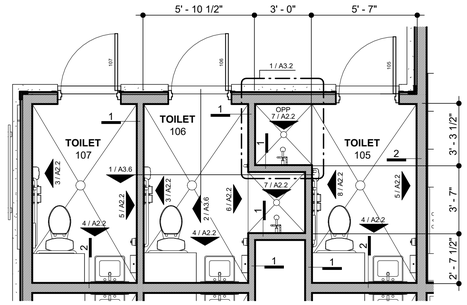
3 FINISH FLOOR GRADING
1/4" = 1'-0"



WALL TYPE 2
1 1/2" = 1'-0"



WALL TYPE 1
1 1/2" = 1'-0"



2 ENLARGED TOILETS
1/4" = 1'-0"

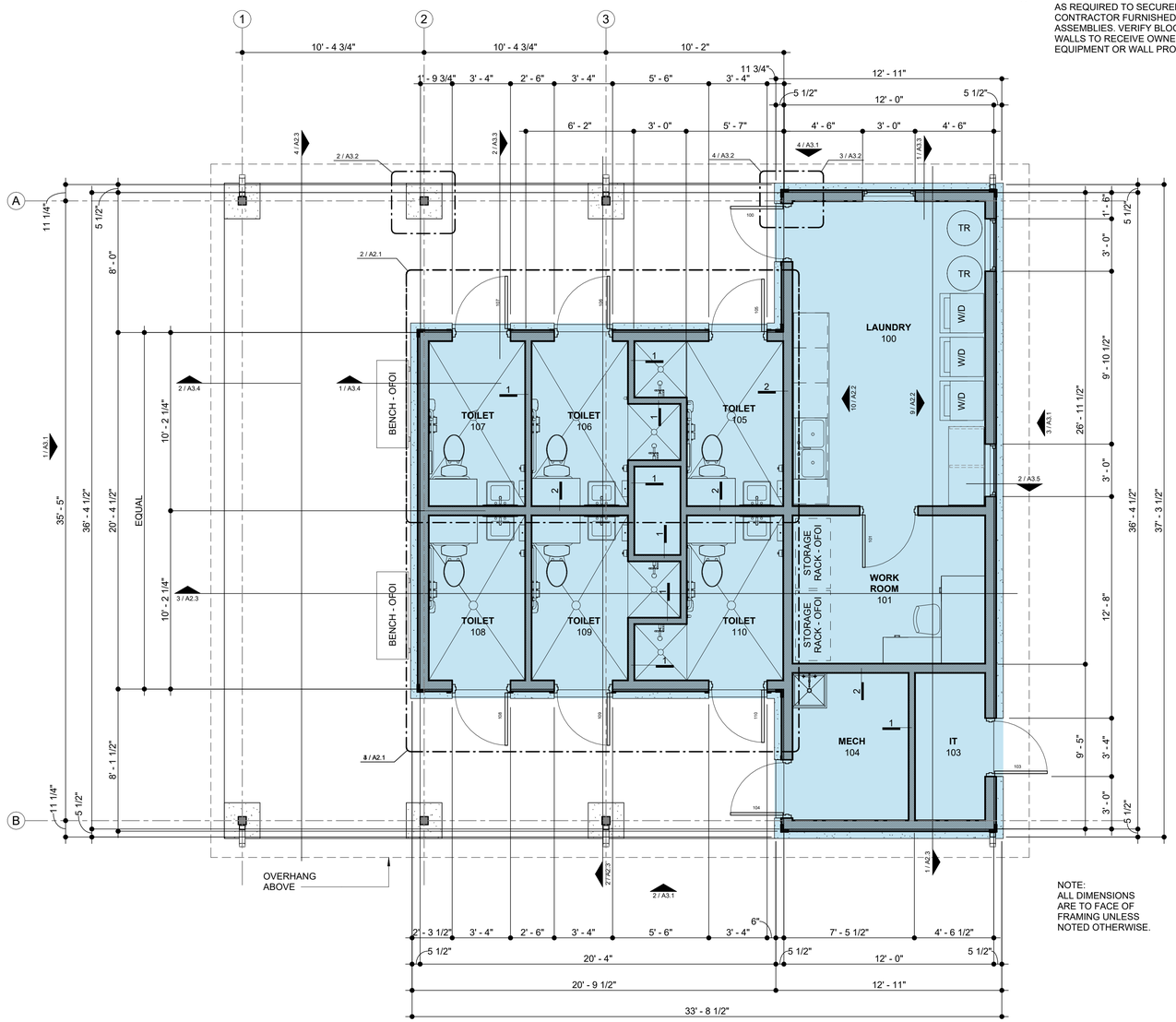
NORTH

WALL LEGEND (NOTE ALL TYPES MAY NOT BE USED)

NEW WALL CONSTRUCTION, RE: WALL TYPES.

GENERAL CONSTRUCTION NOTES

1. UNLESS INDICATED OTHERWISE, FLOOR PLAN DIMENSIONS ARE TO THE FACE OF WOOD FRAMING CONSTRUCTION.
2. WHERE REQUIRED TO ENSURE WALL STABILITY, DIAGONALLY BRACE TOP OF WALL ABOVE CEILING AT 4'-0" ON CENTER AND EACH SIDE DOOR SECURED TO STRUCTURE ABOVE.
3. UNLESS INDICATED OTHERWISE, LOCATE HINGE SIDE OF DOOR OPENINGS 4" FROM FINISH FACE OF ADJACENT WALL.
4. FIELD VERIFY FINISHED MILLWORK OPENINGS PRIOR TO FABRICATION OF MILLWORK. NOTIFY THE ARCHITECT AND OBTAIN THE ARCHITECT'S DIRECTION SHALL VERIFIED MILLWORK OPENING REQUIRE DIMENSIONAL RECONFIGURATION OF THE MILLWORK INDICATED.
5. PROVIDE FRAMING AND BLOCKING AS REQUIRED BY MANUFACTURER FOR INSTALLATION OF ALL HANDRAIL AND CORNER GUARD LOCATIONS.
6. UNLESS INDICATED OTHERWISE, REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHT DESIGNATIONS.
7. PROVIDE AND INSTALL BLOCKING, FRAMING AND / OR BRACING AS REQUIRED TO SECURELY INSTALL ALL OWNER AND CONTRACTOR FURNISHED EQUIPMENT OR WALL PROTECTION ASSEMBLIES. VERIFY BLOCKING IS INSTALLED IN EXISTING WALLS TO RECEIVE OWNER OR CONTRACTOR FURNISHED EQUIPMENT OR WALL PROTECTION ASSEMBLIES.



NOTE:
ALL DIMENSIONS
ARE TO FACE OF
FRAMING UNLESS
NOTED OTHERWISE.

1 FLOOR PLAN
1/4" = 1'-0"

NORTH

mgm design group

Restroom Addition

Cherokee Nation Park

Sallisaw Creek Rest

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

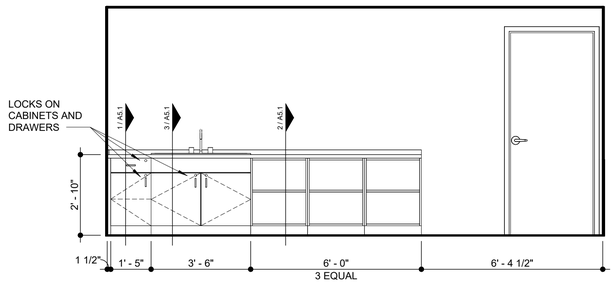
REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK
DAVIES III
2012
TULSA, OKLA
LICENSED ARCHITECT
06.17.25

DATE
06.17.25

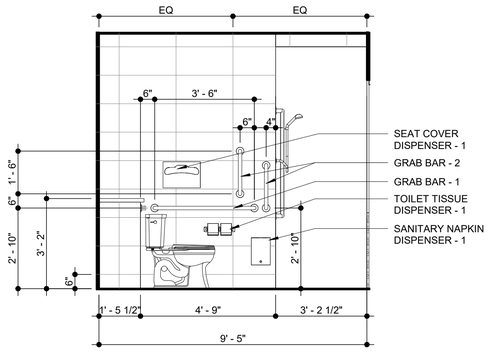
SHEET
Floor Plan

A2.1

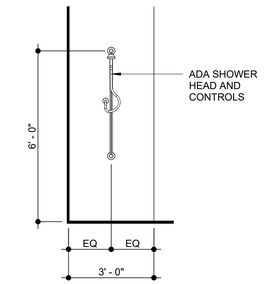


10 LAUNDRY ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"

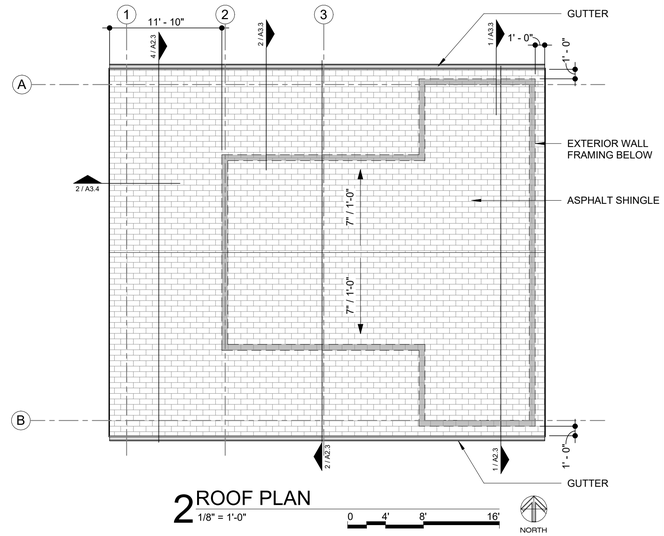
9 LAUNDRY ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



8 TOILET/SHOWER ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



7 TYPICAL SHOWER
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



2 ROOF PLAN
1/8" = 1'-0"
0 4' 8' 16'
NORTH

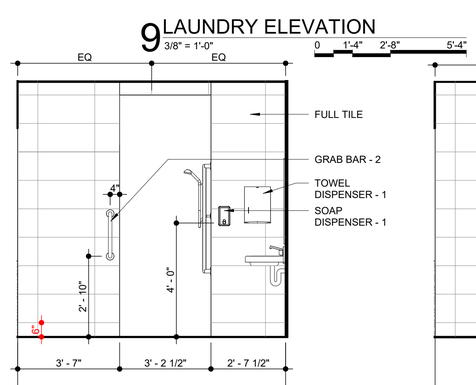
CEILING LEGEND

- WALL PENETRATING CEILING
- GYPSUM BOARD CEILING
- CAR SIDING
- 8' - 0" CEILING HEIGHT DESIGNATION

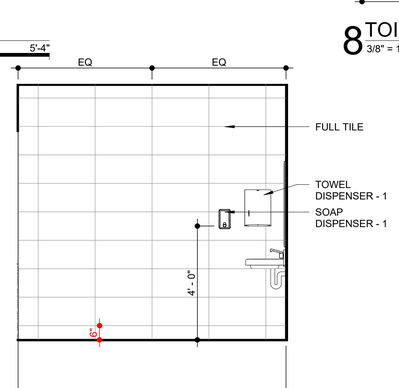
CEILING CONSTRUCTION NOTES

1. CEILING HEIGHT INDICATED AT GYPSUM BOARD CEILING IS TO BOTTOM OF FRAMING. (UNLESS NOTED OTHERWISE)

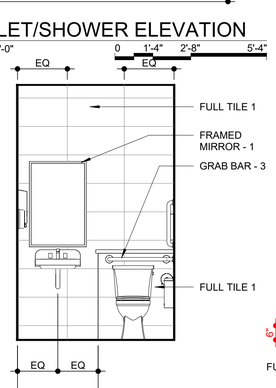
1 REFLECTED CEILING PLAN
1/8" = 1'-0"
0 4' 8' 16'
NORTH



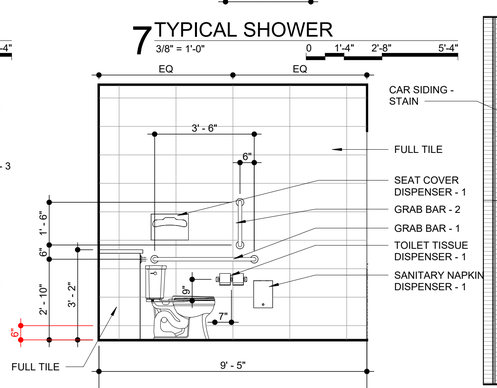
6 TOILET/SHOWER ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



5 TYPICAL TOILET ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



4 TYPICAL TOILET ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"



3 TYPICAL TOILET ELEVATION
3/8" = 1'-0"
0 1'-4" 2'-8" 5'-4"

mgm design group

Sallisaw Creek Restroom Addition

Cherokee Nation Park

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

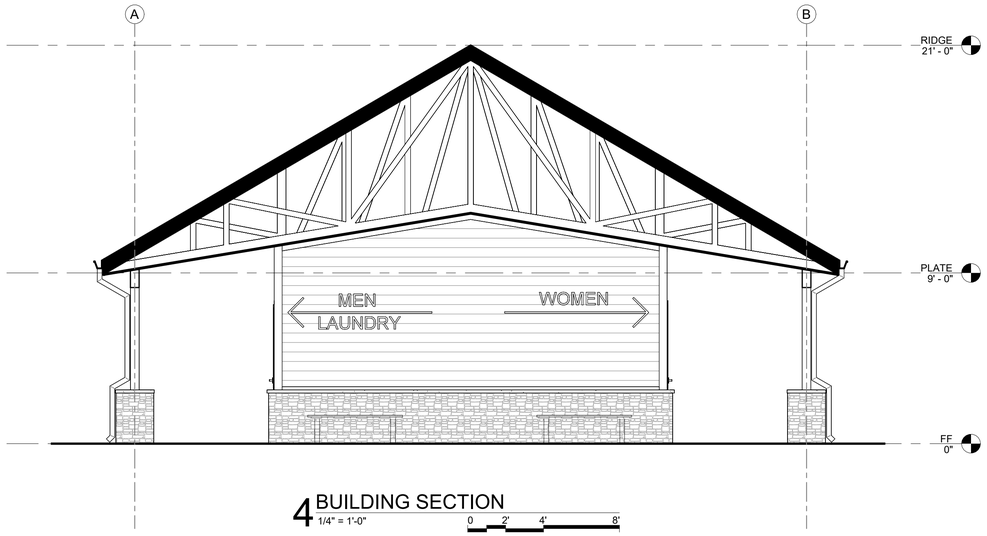
REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK DAVIES III
2012
TULSA, OKLA
LICENSED ARCHITECT
06.17.25

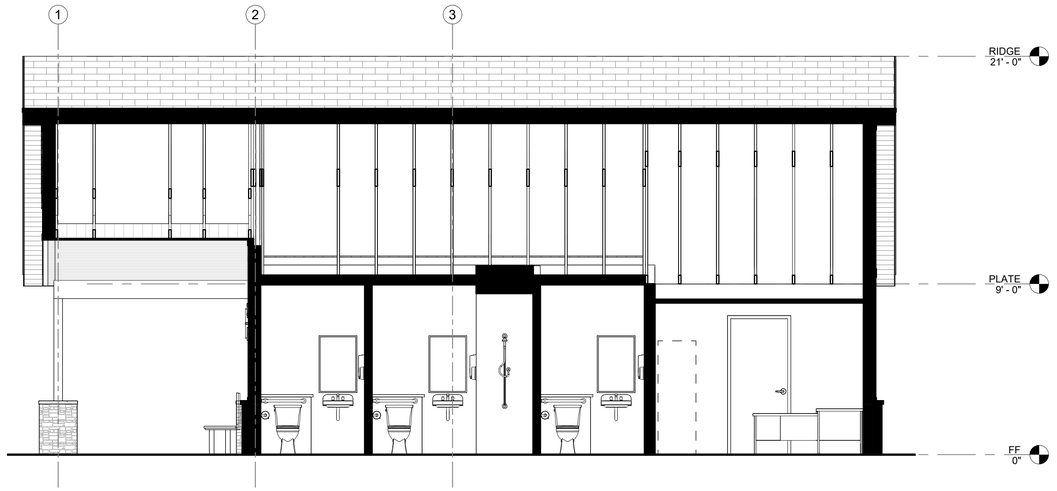
DATE
06.17.25

SHEET
Plans and Elevations

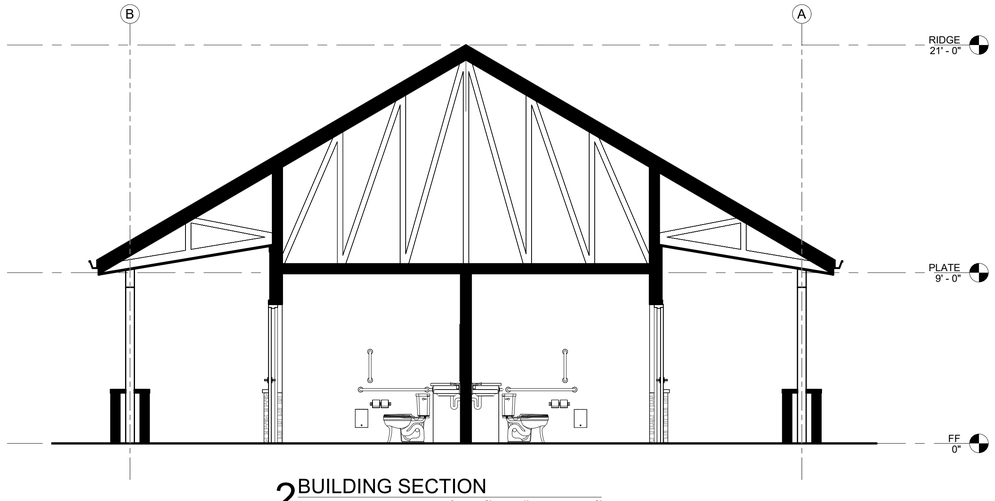
A2.2



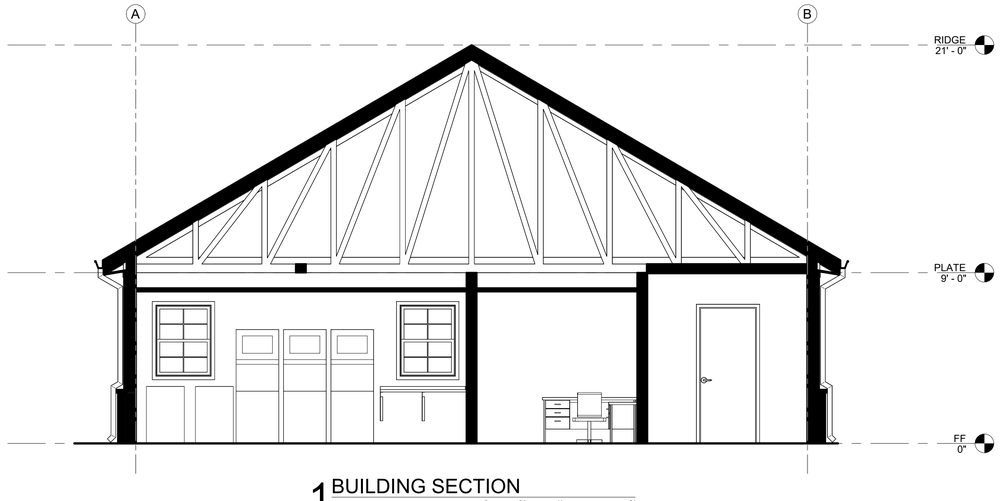
4 BUILDING SECTION
1/4" = 1'-0"
0 2' 4' 8'



3 BUILDING SECTION
1/4" = 1'-0"
0 2' 4' 8'



2 BUILDING SECTION
1/4" = 1'-0"
0 2' 4' 8'



1 BUILDING SECTION
1/4" = 1'-0"
0 2' 4' 8'

mgm design group

Sallisaw Creek Restroom Addition

Cherokee Nation Park

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REVISIONS:

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2012
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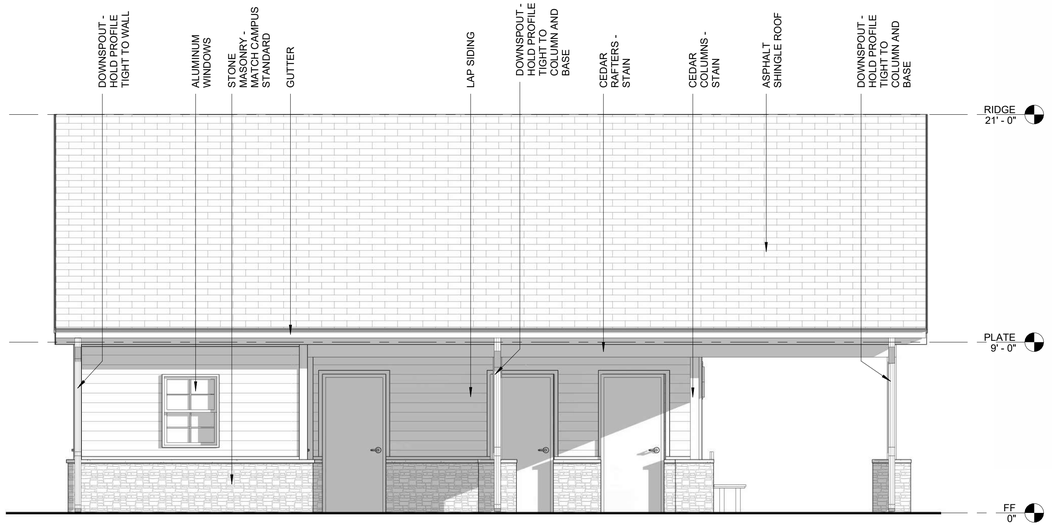
06.17.25

SHEET
Building Sections

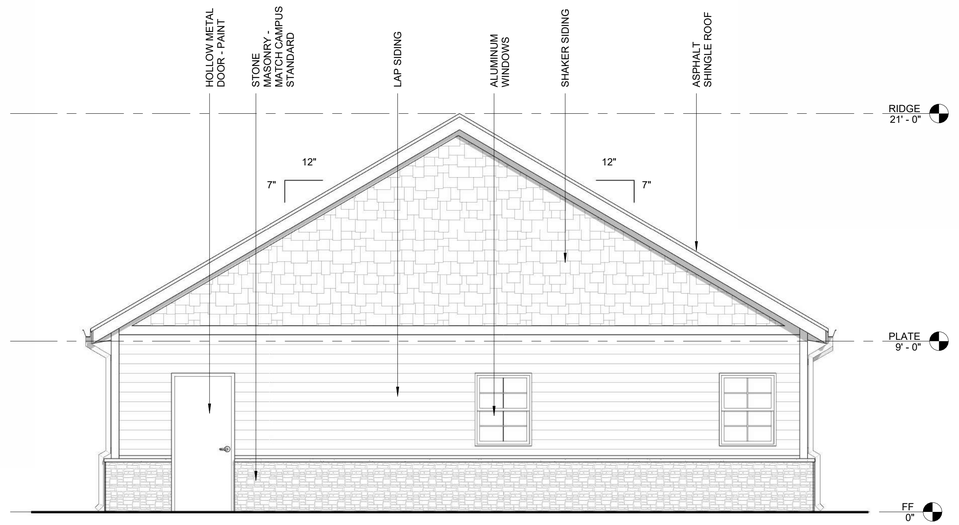
A2.3

PAINT SCHEDULE:

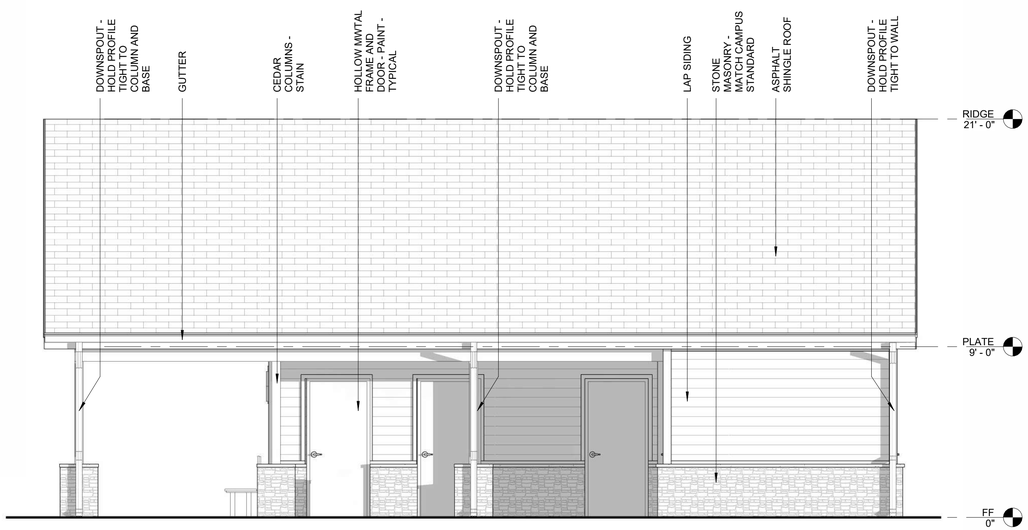
- SIDING = P2
- TRIM = P3
- COLUMNS AND CEILING = STAIN
- HOLLOW METAL DOORS = MATCH EXTERIOR SIDING COLOR
- FRAMES = PAINT TO MATCH STAIN COLOR
- GUTTERS AND DOWN SPOUTS = MATCH TRIM COLOR



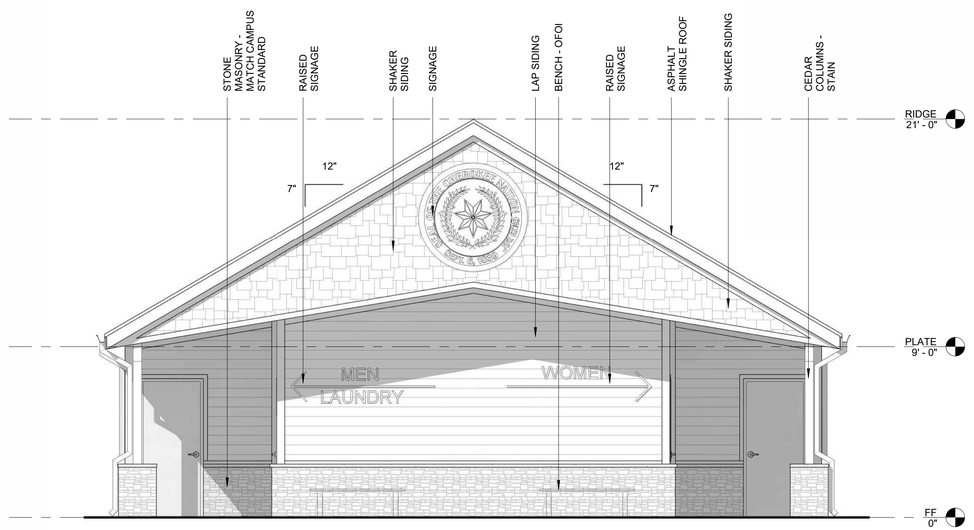
4 NORTH ELEVATION
1/4" = 1'-0"
0 2' 4' 8'



3 EAST ELEVATION
1/4" = 1'-0"
0 2' 4' 8'



2 SOUTH ELEVATION
1/4" = 1'-0"
0 2' 4' 8'



1 WEST ELEVATION
1/4" = 1'-0"
0 2' 4' 8'

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Cherokee Nation Park
Sallisaw Creek Restroom Addition

457959 E. 1118 Road
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06.12.25

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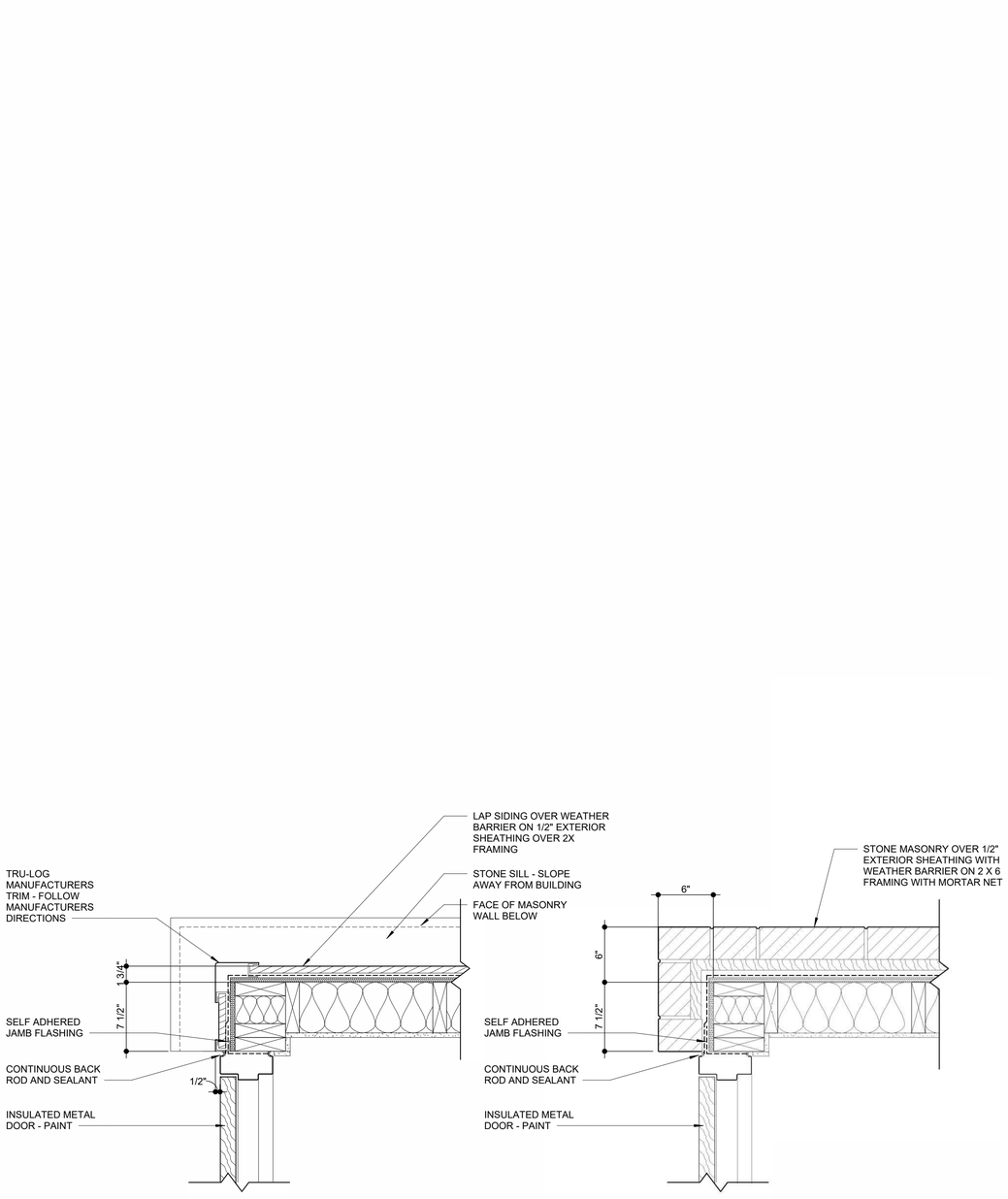
06.17.25

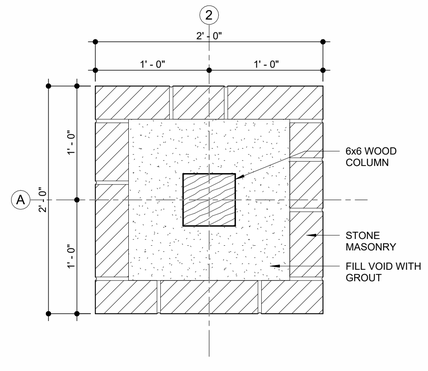
SHEET
Exterior Elevations

A3.1

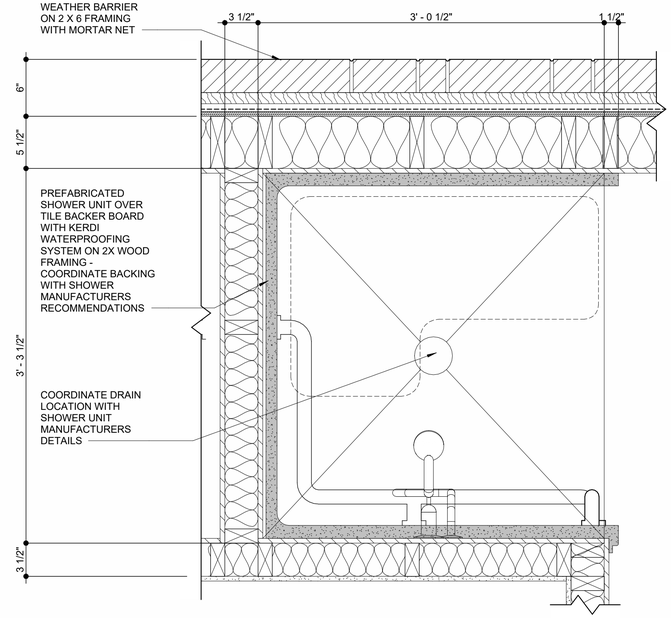


4 PLAN DETAIL @ 4'- 0" A.F.F.
1 1/2" = 1'-0"
0 4" 8" 1'-4"
NORTH

3 PLAN DETAIL @ 2'- 0" A.F.F.
1 1/2" = 1'-0"
0 4" 8" 1'-4"
NORTH



2 PLAN DETAIL
1 1/2" = 1'-0"
0 4" 8" 1'-4"
NORTH



1 PLAN DETAIL
1 1/2" = 1'-0"
0 4" 8" 1'-4"
NORTH

mgm design group

Cherokee Nation Park
Sallisaw Creek Restroom Addition

457959 E. 1118 Road
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2012
TULSA, OKLA
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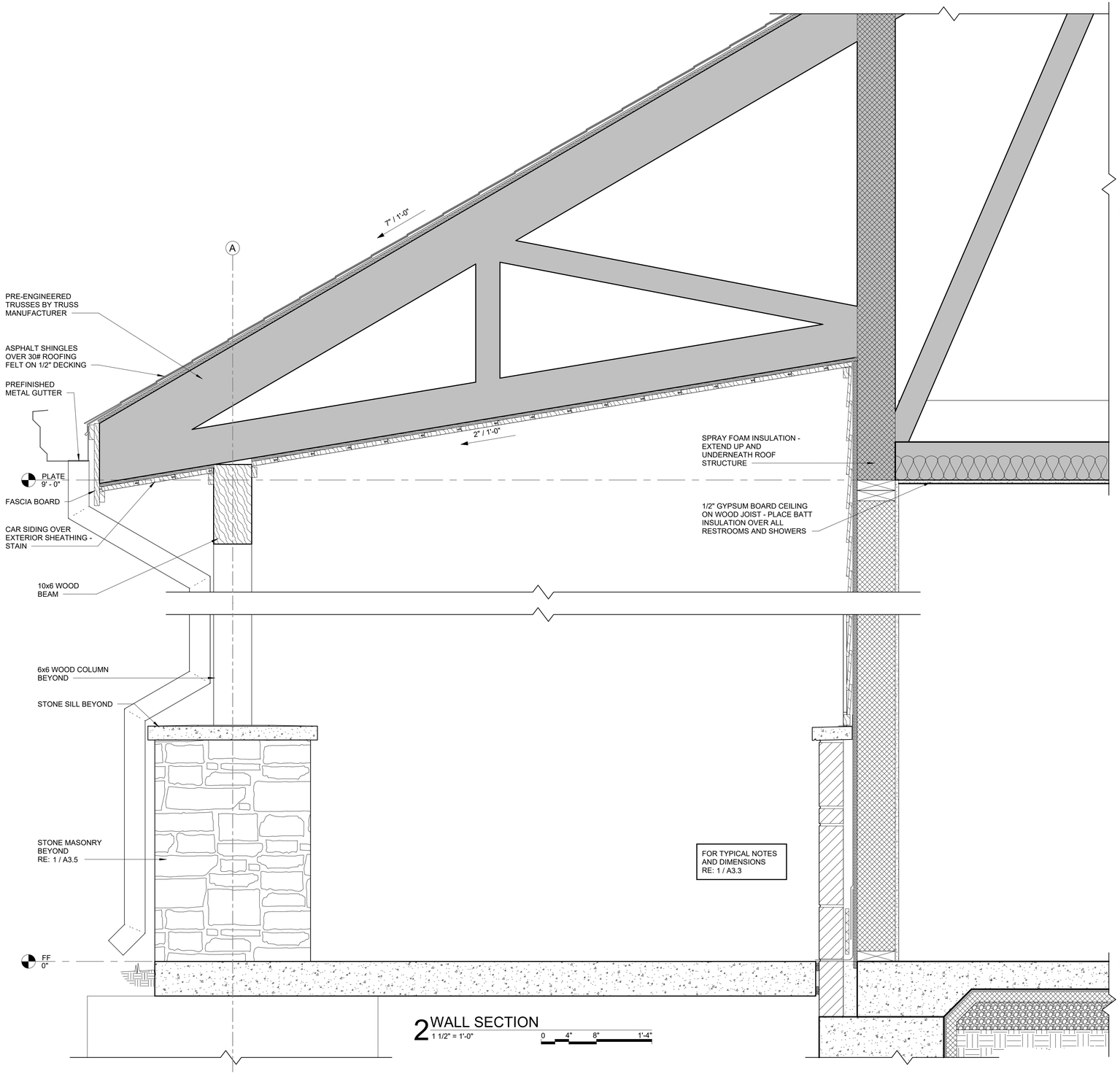
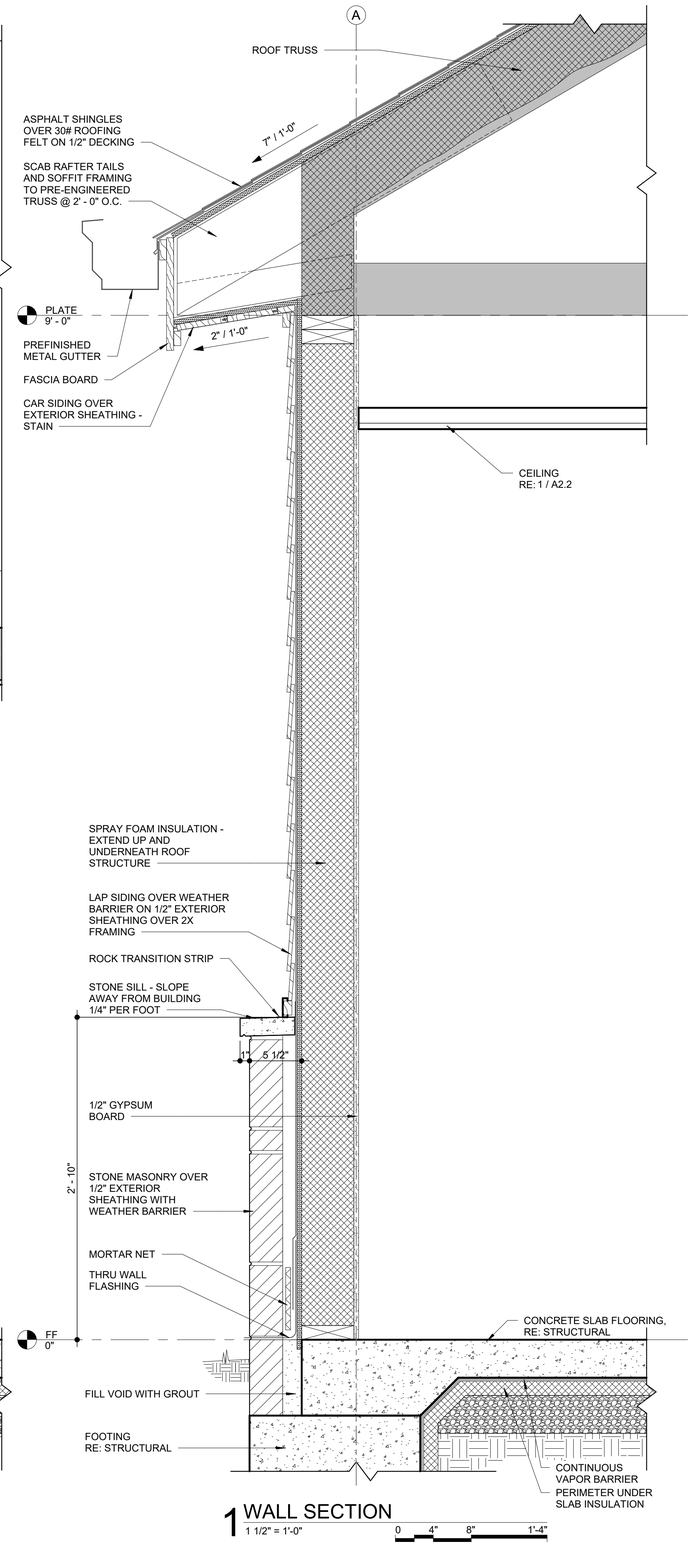
DATE
06.17.25

SHEET
Plan Details

A3.2



2 WALL SECTION
1 1/2" = 1'-0"
0 4" 8" 1'-4"



1 WALL SECTION
1 1/2" = 1'-0"
0 4" 8" 1'-4"

mgm design group

Cherokee Nation Park
Sallisaw Creek Restroom Addition

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2012
TULSA, OKLA
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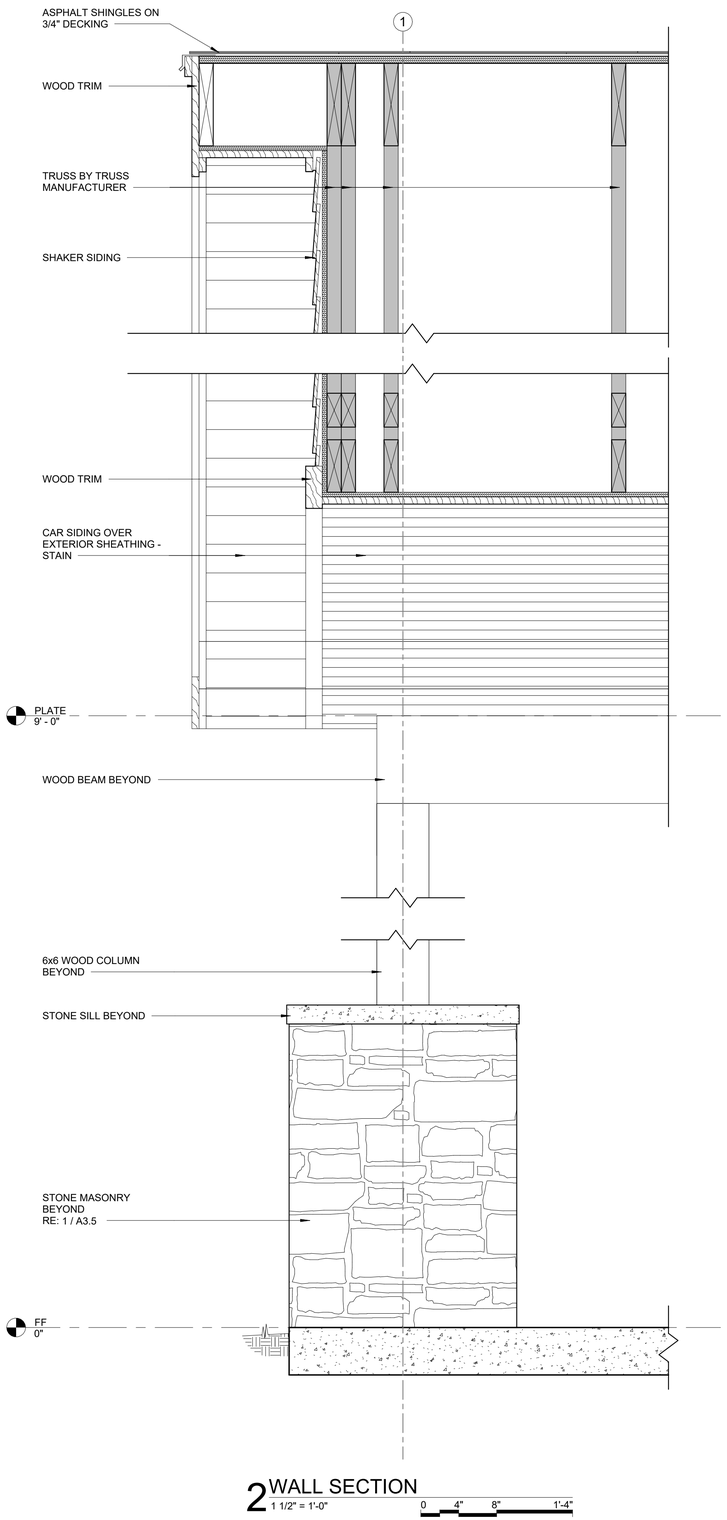
6.12.25

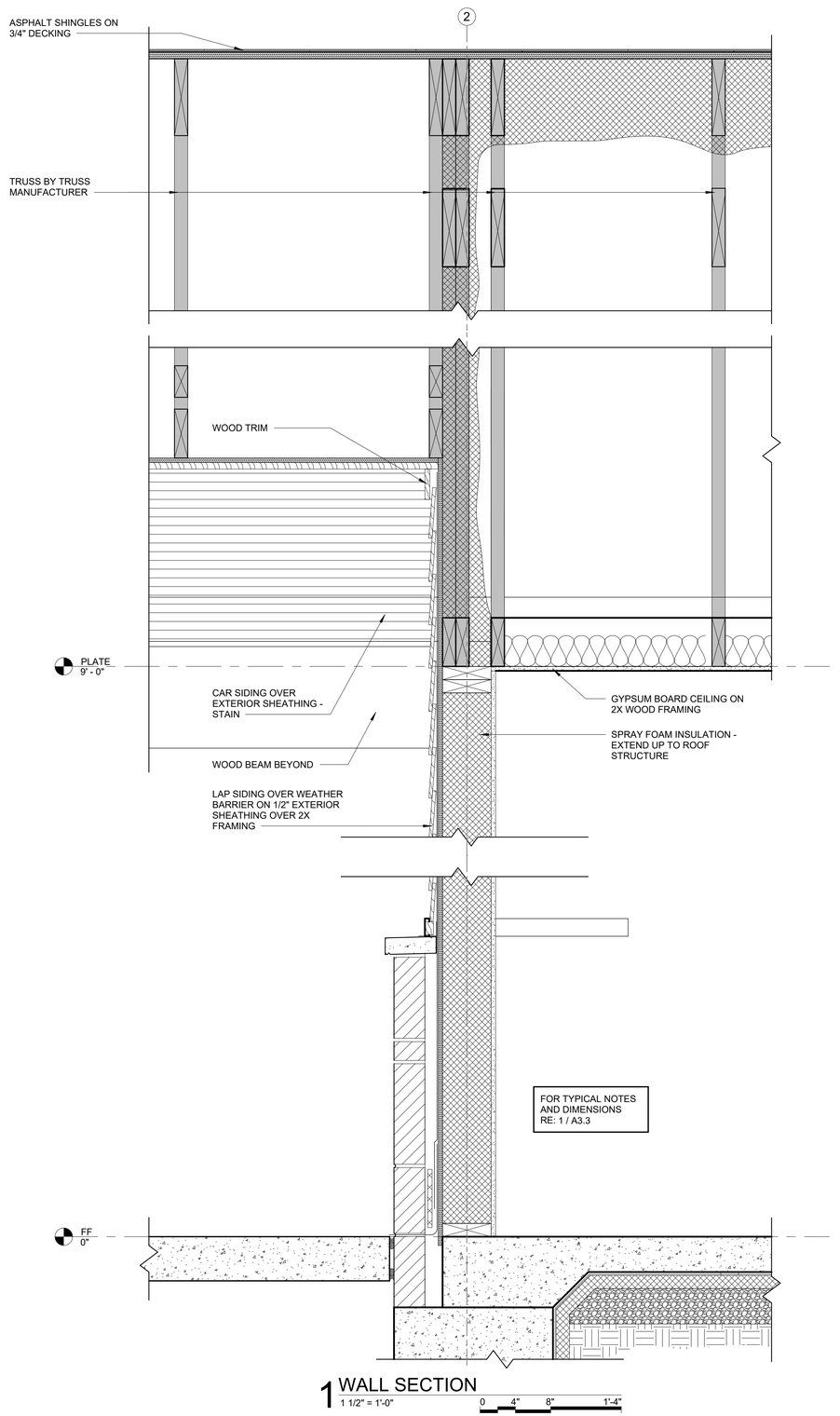
DATE
06.17.25

SHEET
Wall Sections

A3.3



2 WALL SECTION
1 1/2" = 1'-0"
0 4" 8" 1'-4"



1 WALL SECTION
1 1/2" = 1'-0"
0 4" 8" 1'-4"

mgm design group

Sallisaw Creek Restroom Addition

Cherokee Nation Park

457959 E. 1118 Road
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STATE OF OKLAHOMA
F. LUBBOCK DAVIES III
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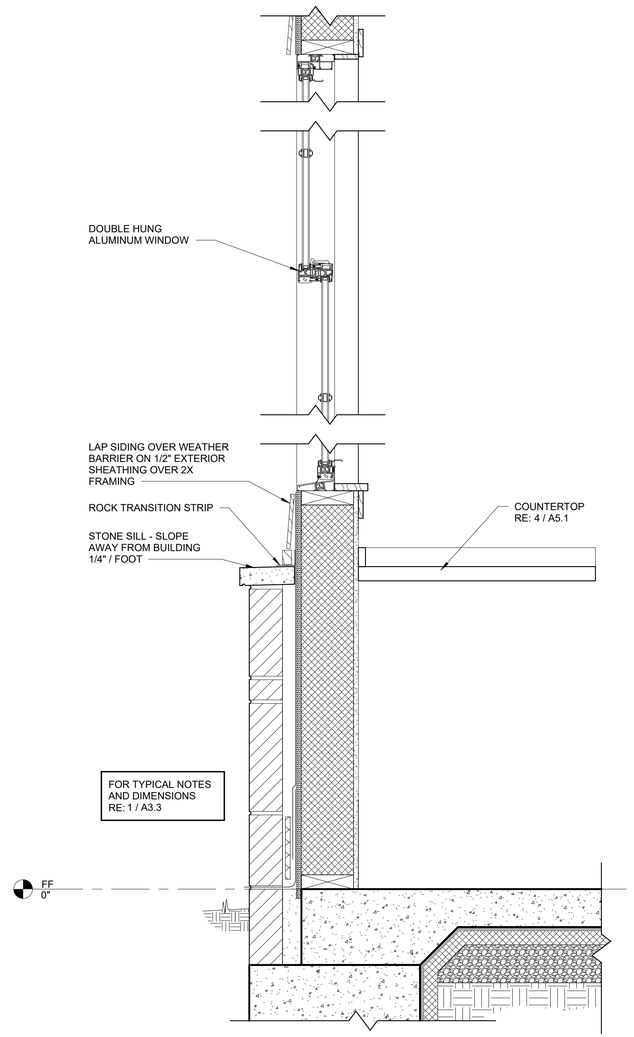
06.17.25

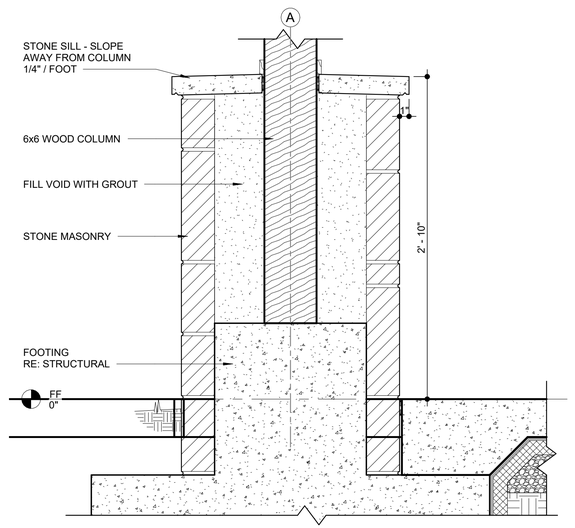
SHEET
Wall Sections

A3.4



2 WALL SECTION
1 1/2" = 1'-0"

0 4" 8" 1'-4"



1 WALL SECTION
1 1/2" = 1'-0"

0 4" 8" 1'-4"

mgm design group

Restroom Addition

Cherokee Nation Park

Sallisaw Creek Re

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK
DAVIES III
2012
TULSA, OKLA
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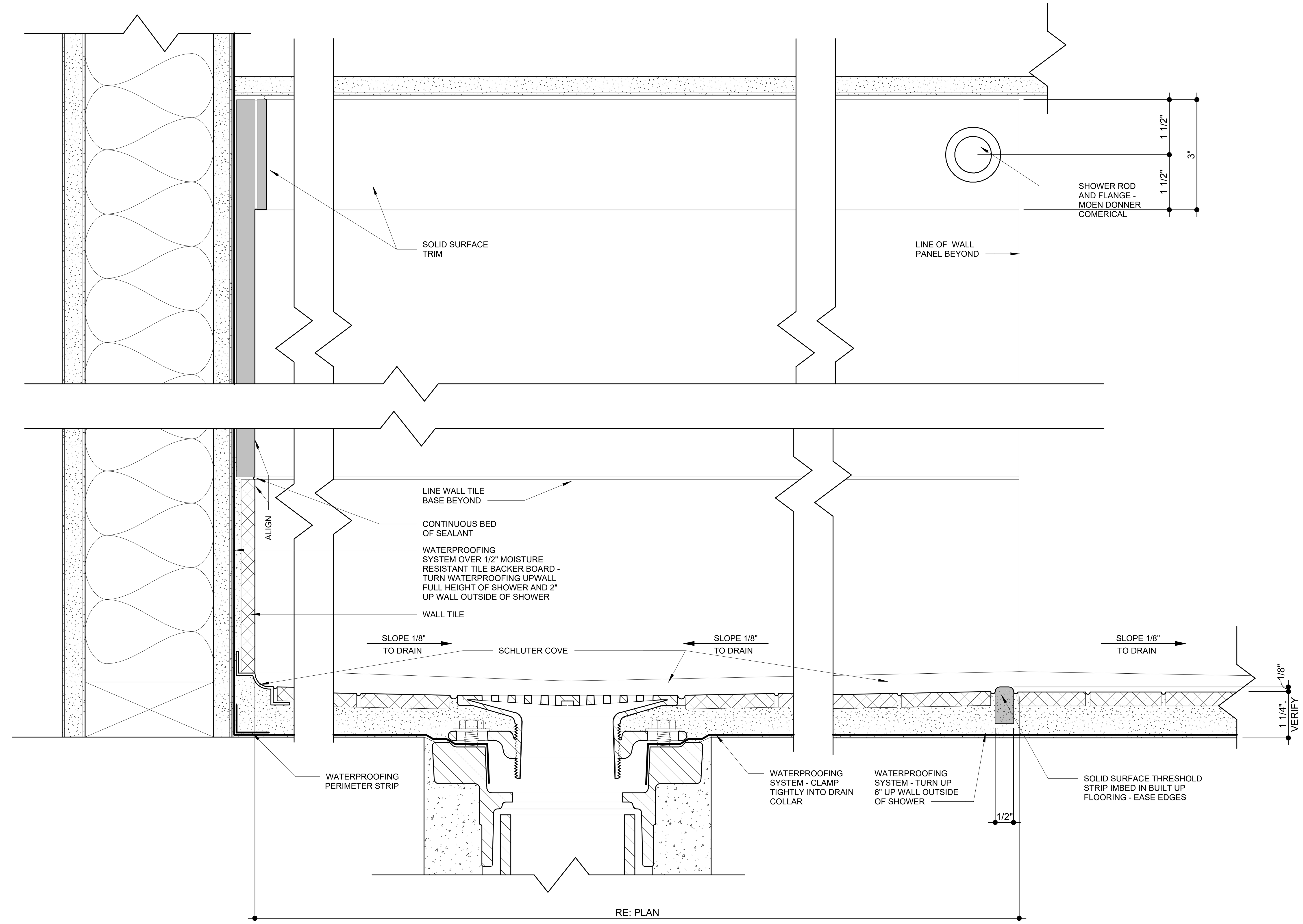
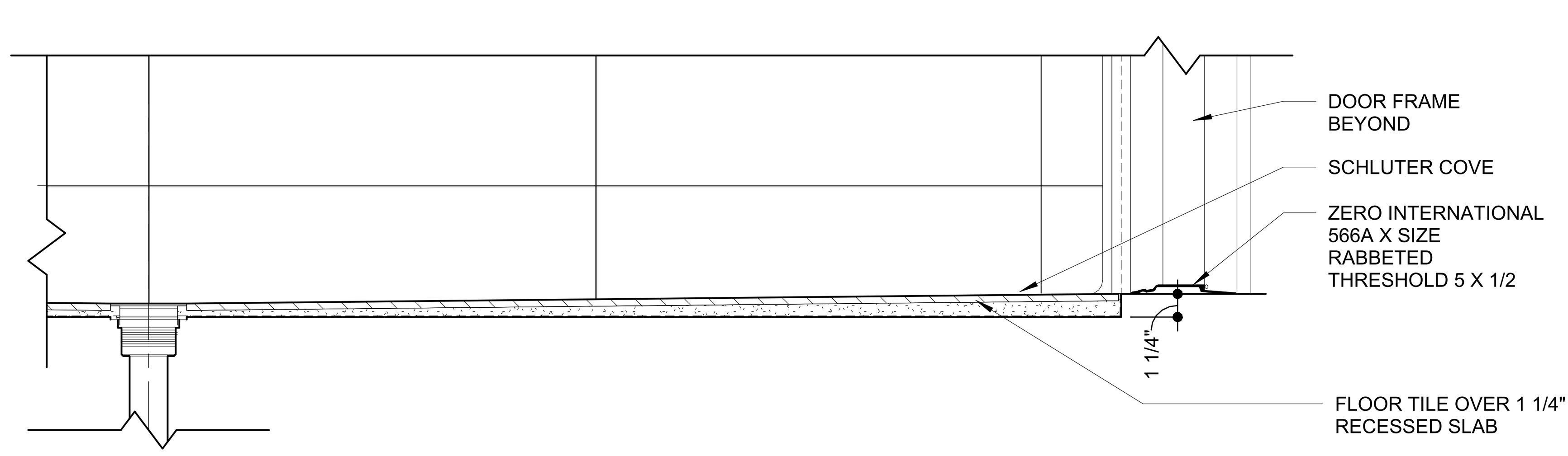
DATE
06.17.25

SHEET
Wall Sections

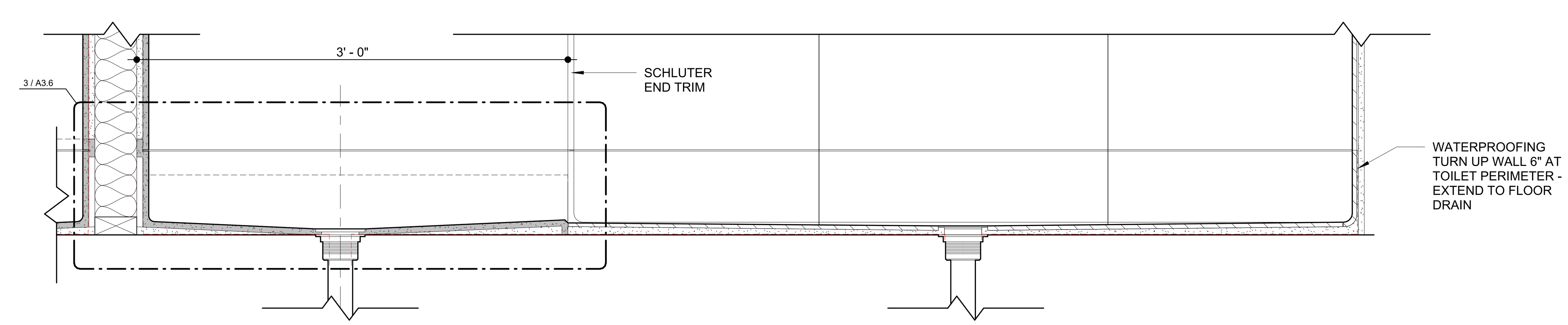
A3.5



3 ENLARGED SHOWER SECTION
6" = 1'-0" 0 1" 2" 4"



2 SHOWER SECTION
1 1/2" = 1'-0" 0 4" 8" 1'-4"



1 SHOWER SECTION
1 1/2" = 1'-0" 0 4" 8" 1'-4"

mgm design group

Cherokee Nation Park
Sallisaw Creek Restroom Addition
457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK DAVIES III
2012
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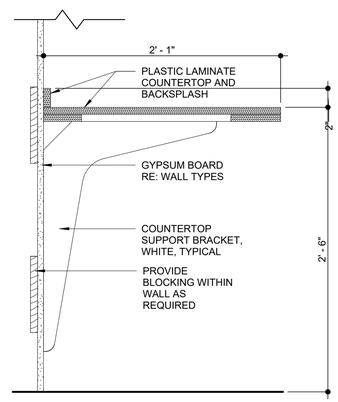
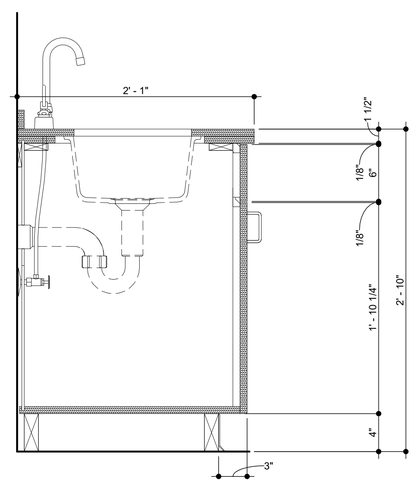
LICENSED ARCHITECT

DATE
06.17.25
SHEET
Details

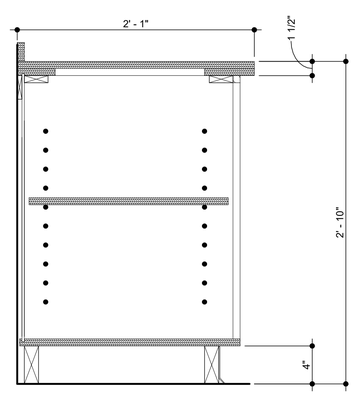
A3.6



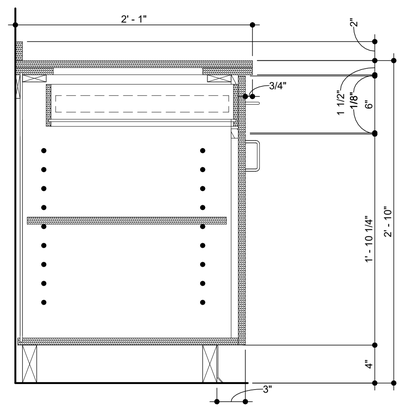
4 COUNTERTOP
1 1/2" = 1'-0"
0 4" 8" 1'-4"



3 BASE CABINET WITH SINK
1 1/2" = 1'-0"
0 4" 8" 1'-4"



2 BASE CABINET
1 1/2" = 1'-0"
0 4" 8" 1'-4"



1 BASE CABINET
1 1/2" = 1'-0"
0 4" 8" 1'-4"

mgm design group

Sallisaw Creek Restroom Addition

Cherokee Nation Park

457959 E. 1118 Road
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REVISIONS

STATE OF OKLAHOMA
F. LUBBOCK
DAVIES III
2012
TULSA, OKLA
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06.17.25

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06.17.25

SHEET
Millwork Details

A5.1

COLUMN & FOOTING SCHEDULE					
MARK	C1 F1	– –	– –	– –	– –
COLUMN	6x6 TREATED WOOD POSTS	-	-	-	-
FOOTING	3'-6"x3'-6"x2'-0" DP w/ 5- #5 x 3'-0" E.W. TOP & BOTT	-	-	-	-

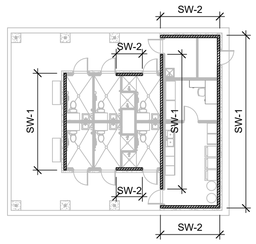
KEY

* – SHEAR WALL HOLD DOWN

SHEARWALL SCHEDULE								
MARK (NOTE 1)	SHEATHING (NOTE 2)	EDGE BLOCKING REQ.	BOUNDARY NAILING	INTERMEDATE NAILING	VERTICAL EDGE CHORD (NOTE 3)	HOLD DOWN	HOLD DOWN ANCHORS (NOTE 4 & 5)	SILL ANCHORS (NOTE 6)
SW-1	WP	YES	6" O.C.	12" O.C.	2- 2x6	HDU2-SDS2.5 w/ 6- $\frac{1}{4}$"X2$\frac{1}{2}$" SDS	$\frac{5}{8}$"Ø w/ 12" MIN. EMBEDMENT	48" O.C.
SW-2	WP	YES	4" O.C.	12" O.C.	3- 2x6	HDU5-SDS2.5 w/ 14- $\frac{1}{4}$"X2$\frac{1}{2}$" SDS	$\frac{5}{8}$"Ø w/ 18" MIN. EMBEDMENT	32" O.C.
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

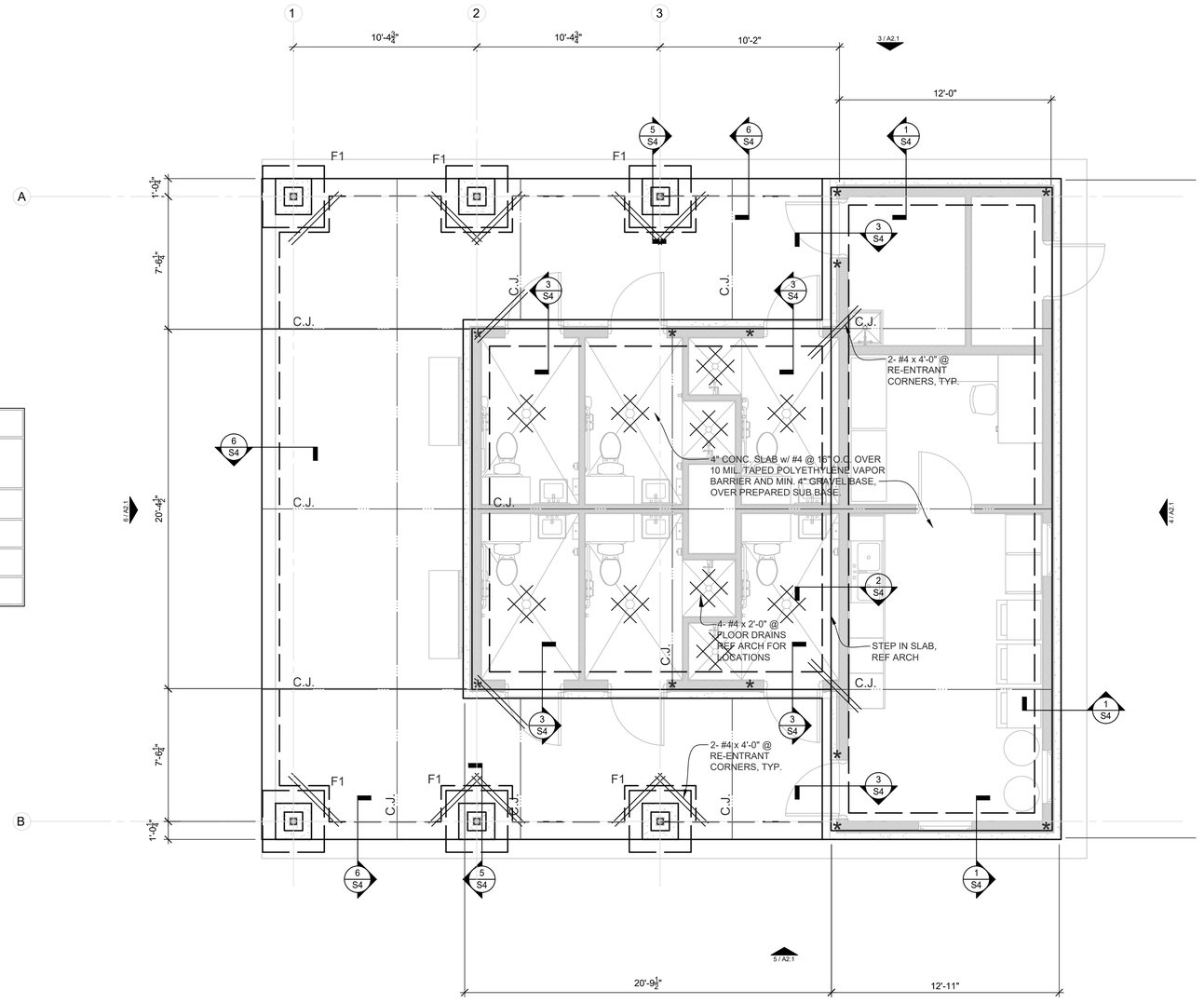
SHEAR WALL NOTES

1. REFERENCE THIS SHEET BELOW FOR SHEAR WALL LOCATIONS.
2. WP = $\frac{7}{16}$" (NOM.) OSB OR PLYWOOD w/ 10d X 3" GALV. COMMON OR BOX NAILS.
   GB = $\frac{5}{8}$" GYP. BOARD w/ 6d WALLBOARD NAILS.
3. EDGE CHORDS OR COLUMNS ARE TO BE SOLID MEMBERS OR BUILT–UP STUDS PER DETAIL 7/S5 AND/OR STUD AND FRAMING SCHEDULE.
4. HOLD DOWN ANCHORS DETAILED PER DETAIL 2/S5. TENSION ANCHOR EMBEDMENT LENGTH INDICATED IS THE MINIMUM DEPTH REQUIRED INTO CONCRETE FOOTING. FOR TOTAL LENGTH, PROJECTION SHOULD BE CONSIDERED.
5. HDU14 REQUIRES A HEAVY–HEX ANCHOR AND NUT
6. SILL PLATE ANCHORS:
   $\frac{5}{8}$"ø X 8" EMBEDMENT A307 HEADED ANCHORS BOLTS OR $\frac{5}{8}$"ø X 5 $\frac{3}{8}$" EMBED HILTI HY 200 ADHESIVE ANCHORS.



PLAN: SHEAR WALL LOC.

2 NOT TO SCALE



N

FOUNDATION PLAN

1 1/4" = 1'-0"

BE Structural Consultants
STRUCTURAL ENGINEERING CONSULTANTS
Tulsa, Oklahoma 74133
Phone: (918) 812-3118
CA #7761 EXP: 6/30/26

mgm design group

Cherokee Nation
Sallisaw Park Improvements

457959 E. 1118 Road
Sallisaw, Oklahoma 74955

REVISIONS

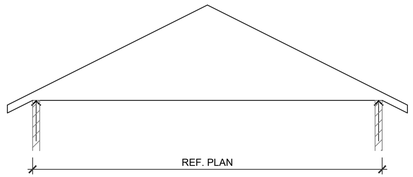
0	4/4/2025	ISSUE FOR REVIEW
1	4/30/2025	ISSUED FOR CONSTRUCTION
-	-	-
-	-	-

DATE
03.31.25

SHEET
Foundation Plan

S1.0

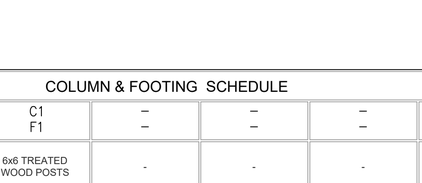
COLUMN & FOOTING SCHEDULE					
MARK	C1 F1	– –	– –	– –	– –
COLUMN	6x6 TREATED WOOD POSTS	-	-	-	-
FOOTING	3'-6"x3'-6"x2'-0" DP w/ 5- #5 x 3'-0" E.W. TOP & BOTT	-	-	-	-



'TR-1'

2 'TR-1' TRUSS ELEVATION

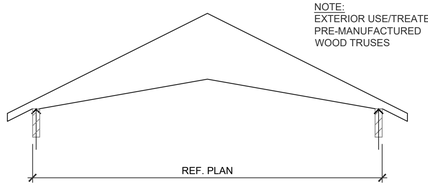
NOT TO SCALE



'TR-2'

3 'TR-2' TRUSS ELEVATION

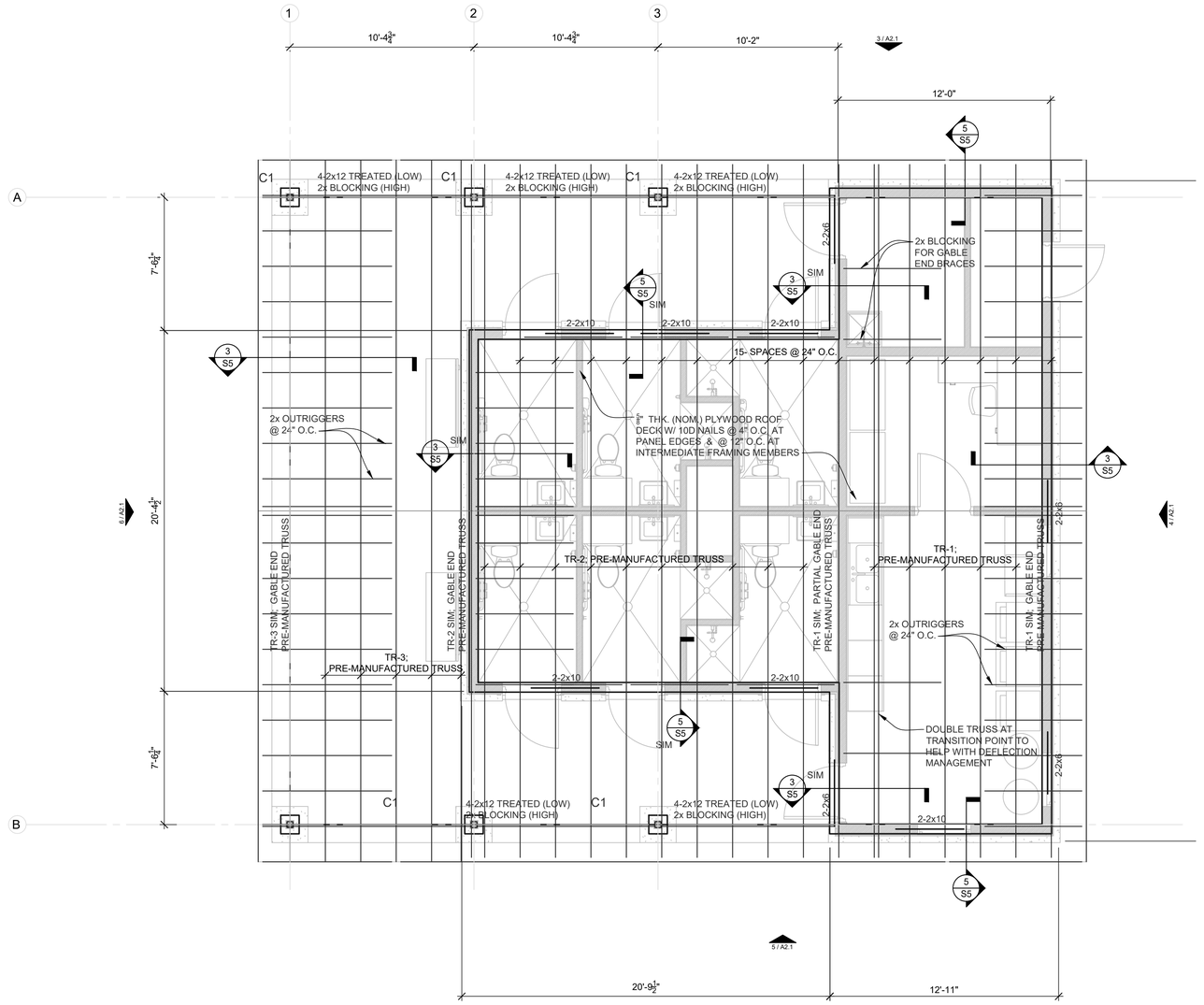
NOT TO SCALE



'TR-3'

4 'TR-3' TRUSS ELEVATION

NOT TO SCALE



N

1 FRAMING PLAN

1/4" = 1'-0"

DESIGN LOADS

LL_r = 20 PSF
DL = 10 PSF (TOP CHORD)
DL = 10 PSF (BOTT CHORD)

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Tulsa, Oklahoma 74133
Phone: (918) 812-3118
CA #7761 EXP. 6/30/26

mgm design group

Cherokee Nation

Sallisaw Park Improvements

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-	-	-
-	-	-

DATE
03.31.25

SHEET
Framing Plan

S2.0

DESIGN CRITERIA

GOVERNING BUILDING CODE

1. 2018 INTERNATIONAL BUILDING CODE

   CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS CODE, EXCEPT WHERE OTHER APPLICABLE CODES OR CONTRACTS PROVIDE MORE RESTRICTION.

LOADING

1. WIND LOAD

DESIGN WIND SPEED	=	107 MPH
EXPOSURE CATEGORY	=	C

2. SEISMIC LOAD:

SDs	=	0.164 g
SD1	=	0.128 g
SITE CLASS	=	D
IMPORTANCE FACTOR	=	1.0

3. SNOW LOAD:

GROUND SNOW	=	10 PSF
IMPORTANCE FACTOR	=	1.0

4. FLOOD LOAD:

FLOOD DESIGN CLASS	=	ZONE A

GENERAL / MISCELLANEOUS

1. CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING STRUCTURES DAMAGED DURING CONSTRUCTION TO THE OWNERS SATISFACTION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT, ENGINEER OF RECORD, AND CONSTRUCTION MANAGER BEFORE PROCEEDING.
3. CONTRACTOR SHALL BE RESPONSIBLE AND PROVIDE TEMPORARY BRACING FOR CONSTRUCTION STABILITY, INCLUDING BUT NOT LIMITED TO TEMPORARILY BRACING FRAMING, UNTIL FLOOR/ROOF DIAPHRAGMS AND SIDE WALLS ARE IN PLACE.
4. THESE NOTES CONTAIN GENERAL INFORMATION, THE CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH PROJECT SPECIFICATIONS & OTHER CONTRACT DOCUMENTS, ANY CONFLICTS OF INFORMATION & INSTRUCTIONS TO THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL PROCURE, SUPPLY & INSTALL ALL MATERIALS NECESSARY TO COMPLETE THE WORK SUCH AS, BUT NOT LIMITED TO, CONCRETE, REINFORCING STEEL, FORM-WORK, BOLTS, WASHERS, STRUCTURAL STEEL, METAL ROOFING, PIPE CLAMPS, SHIM BLOCKS & EQUIPMENT ANCHOR ASSEMBLIES, UNLESS NOTED OTHERWISE ON DRAWINGS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS & WORK ORDERS FROM LOCAL, STATE OR FEDERAL AGENCIES, INCLUDING BONDS & INSURANCE AS REQUIRED.
7. CONTRACTOR SHALL CALL THE LOCAL 1-800-811 TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE DURING THE ENTIRE CONSTRUCTION PERIOD, NO PONDING ALLOWED.

FOUNDATION

1. SHALLOW FOUNDATIONS

APPROX. DESIGN FROST DEPTH	=	24 INCHES
PER GEOTECH ALLOWABLE SOIL BEARING	=	2,000 PSF

2. SITE PREPARATION SHALL FOLLOW RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT.
3. DIFFERING SOIL AND SITE CONDITIONS NOTED DURING CONSTRUCTION FROM THOSE ASSUMED AND/OR INDICATED IN THE GEOTECHNICAL REPORT, IF APPLICABLE, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD, GEOTECHNICAL FIRM, AND CONSTRUCTION MANAGER.
4. PROVIDE A MINIMUM REINFORCEMENT IN ALL CONCRETE SLABS ON GRADE, UNLESS NOTED OTHERWISE, OF 6x6-W1.4xW1.4 WELDED WIRE FABRIC. PLACE WELDED WIRE FABRIC IN THE UPPER 1/3 OF THE CONCRETE SLAB.
5. C.J., CONTROL JOINT, SHALL BE 1¼ INCH DEEP SAW CUT CONTROL JOINT OR ALTERNATIVELY A KEYED CONSTRUCTION JOINT MAY BE USED.
6. CORNER BARS SHALL BE PROVIDED FOR ALL CONTINUOUS HORIZONTAL REINFORCING.

GENERAL NOTES

ANCHOR BOLTS

1. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, WITH UNC-2A THREADS, UNLESS NOTED OTHERWISE.
2. IF NOT SPECIFIED THE ANCHOR BOLT LENGTHS LISTED ARE THE ANCHOR BOLT EMBEDMENT LENGTHS.
3. PROVIDE DOUBLE NUTS MINIMUM FOR ALL COLUMN ANCHOR BOLTS, TO ALLOW FOR BASE PLATE ELEVATION ADJUSTMENT.
4. PROTECT ANCHOR ROD SLEEVES DURING CONSTRUCTION TO PREVENT ENTRY OF WATER & OTHER FOREIGN MATTER.
5. PLASTIC ANCHOR BOLT SLEEVES SHALL BE AS MANUFACTURED BY "WILSON ANCHOR BOLT SLEEVE COMPANY" OR APPROVED EQUIVALENT.
6. FILL GROUT SLEEVES WITH GROUT, UNLESS NOTED OTHERWISE.
7. ANCHOR BOLTS SHALL BE TIGHTENED TO "SNUG-TIGHT" CONDITION, EXCEPT WHERE TORQUE VALUE IS SPECIFIED ON THE CONSTRUCTION DOCUMENTS OR BY MANUFACTURER.

CONCRETE

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, AT 28 DAYS OF 4,000 PSI.
2. CONCRETE EXTERIOR FLATWORK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, AT 28 DAYS OF 3,500 PSI.
2. MAXIMUM SLUMP AT PLACEMENT SHALL NOT EXCEED 4-INCHES FOR SLABS & SHALLOW FOUNDATIONS, & 6-INCHES FOR DRILLED PIERS, UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS.
3. AIR-ENTRAINED CONCRETE SHALL BE USED FOR STRUCTURES EXPOSED TO FREEZING & THAWING, SURFACES REQUIRING GOOD WEARING CHARACTERISTICS & ALL FLAT WORK.
4. FOR DRILLED PIERS & SHAFTS, HOLES EXCAVATED USING A SLURRY PROCESS SHALL HAVE THE CONCRETE INSTALLED WITH A TREMIE PIPE WHICH SHALL BE KEPT BELOW THE SURFACE OF THE CONCRETE AT ALL TIMES DURING THE POUR.
5. NO CONCRETE SHALL BE DROPPED THROUGH FREE WATER.
6. HOLES FOR DRILLED PIERS & SHAFTS SHALL BE CONSTRUCTED & CONCRETE FILLED THE SAME DAY.
7. REINFORCING STEEL SHALL CONFORM TO THE LATEST REVISIONS OF ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE.
8. WIRE MESH REINFORCEMENT SHALL CONFORM TO ASTM A-185, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTION

1. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH IBC (INTERNATIONAL BUILDING CODE)
2. USE A SPECIAL INSPECTOR TO PERFORM SPECIAL INSPECTIONS REQUIRED, CODES AND JURISDICTIONAL REQUIREMENTS. THE SPECIAL INSPECTOR IS A PERSON EMPLOYED BY THE CLIENT/CONTRACTOR AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION, AS BEING QUALIFIED BY KNOWLEDGE AND EXPERIENCE TO PERFORM THE SPECIAL INSPECTION FOR THE CATEGORY OF WORK BEING CONSTRUCTED. SPECIAL INSPECTORS SHALL PERFORM THEIR DUTIES INDEPENDENT FROM THE CONSTRUCTION QUALITY CONTROL STAFF EMPLOYED BY THE CONTRACTOR. MORE THAN ONE SPECIAL INSPECTOR MAY BE REQUIRED TO PROVIDE THE VARIED KNOWLEDGE AND EXPERIENCE NECESSARY TO ADEQUATELY INSPECT ALL OF THE CATEGORIES OF WORK REQUIRING SPECIAL INSPECTION.
3. PER IBC, PERFORMANCE OF SPECIAL INSPECTIONS SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING BUILDING SYSTEMS; SOILS AND FOUNDATIONS, CAST-IN-PLACE CONCRETE, STRUCTURAL STEEL.

WOOD NOTES

1. SAWN LUMBER FRAMING MEMBERS ARE TO BE DOUGLAS FIR-LARCH; #2 OR BETTER. THIS INCLUDES BUT IS NOT LIMITED TO, BEAMS, JOISTS, RAFTERS AND STUDS. ALTERNATIVELY MIXED SOUTHERN-PINE; #1 OR BETTER MAY BE USED, IF MORE ECONOMICAL AND/OR MORE WIDELY AVAILABLE.
2. TJI MEMBERS ARE TO BE AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT. LVL, LAMINATED VENEER LUMBER, IS TO BE MICROLAM OR PARALLAM. FOR ALL MANUFACTURED WOOD PRODUCTS, INSTALLATION IS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INCLUDING, BUT NOT LIMITED TO, BRIDGING, BLOCKING AND FASTENING OF MULTIPLE MEMBER UNITS.
3. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
4. PROVIDE MULTIPLE STUDS AT BEARING POINTS FOR MULTIPLE MEMBERS, EXAMPLE: A TWO MEMBER HEADER SHALL BEAR ON A MINIMUM OF TWO STUDS, EACH END, UNLESS NOTED OTHERWISE. INCLUDING BUT NOT LIMITED TO BEAMS, JOISTS, AND HEADERS.
5. MULTIPLE STUDS SHALL BE CARRIED ALL THE WAY DOWN TO THE FOUNDATION.
6. MINIMUM NAILING SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
7. PRE-DRILL HOLES, AS REQUIRED, TO PREVENT SPLITTING.
8. ALL BOLTS SHALL BE GALVANIZED. BOLT HOLES SHALL BE 1/16 INCH LARGER THAN NOMINAL DIAMETER OF THE BOLT USED.
9. STANDARD CUT GALVANIZED WASHERS SHALL BE USED, UNDER BOLT HEADS AND NUTS, AGAINST WOOD MEMBERS.
10. CHECK AND RE-TIGHTEN ALL BOLTS AND CONNECTIONS PRIOR TO CLOSING AND ADDING FINISHING.
11. DO NOT BORE OR NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED.
12. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR, BEARING AND SHEAR WALLS SHALL NOT EXCEED 1/3 THE PLATE, OR STUD WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.
13. PROVIDE STEEL CONNECTORS BASED ON MEMBER SIZES, TO BE AS MANUFACTURED BY SIMPSON, OR APPROVED EQUIVALENT, AS REQUIRED.
14. WOOD TRUSSES SHALL BE HANDLED, STORED, BRACED, AND INSTALLED PER TRUSS PLATE INSTITUTE RECOMMENDATIONS.

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mgm design group

Cherokee Nation

Sallisaw Park Improvements

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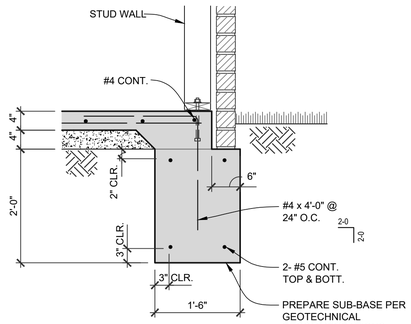
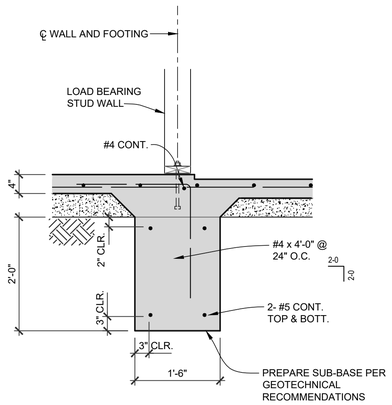
SHEET
STRUCTURAL NOTES

S3.0



1 SECTION

3/4" = 1'-0"



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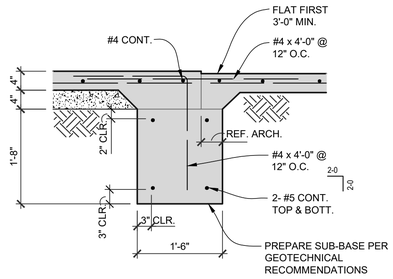

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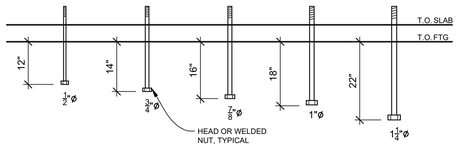
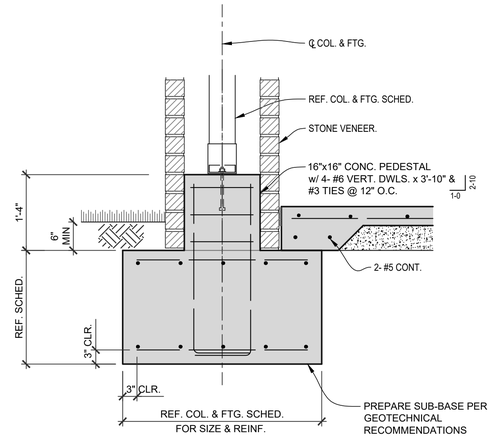


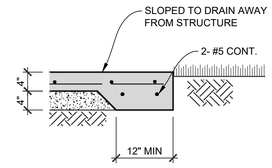
4 SECTION

3/4" = 1'-0"



5 SECTION

3/4" = 1'-0"



6 SECTION

3/4" = 1'-0"

mgm design group

Cherokee Nation
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Sallisaw, Oklahoma 74955

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LICENSED PROFESSIONAL ENGINEER
DENNIS R. BOLEY
28440
OKLAHOMA
4/30/25

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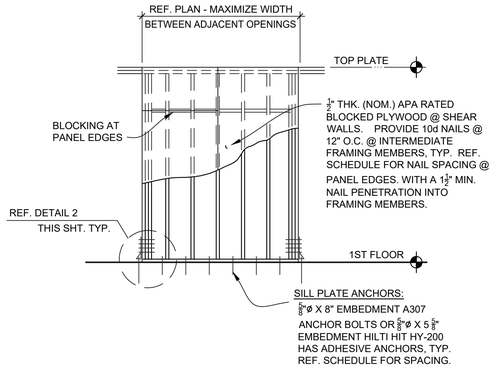
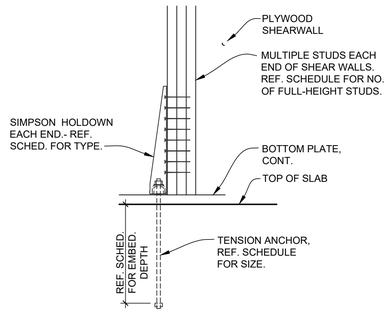
SHEET
DETAILS

S4.0



1 SECTION

1/4" = 1'-0"



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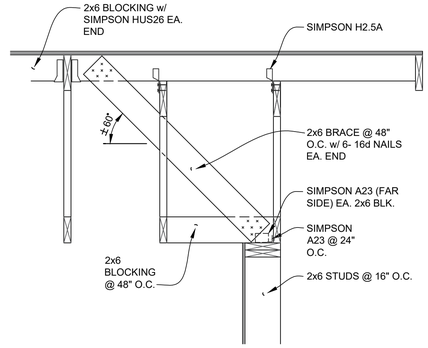

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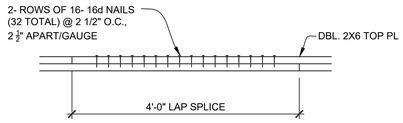
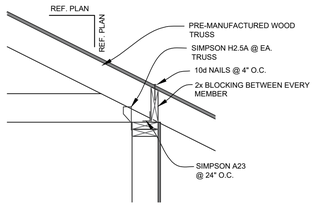


4 SECTION

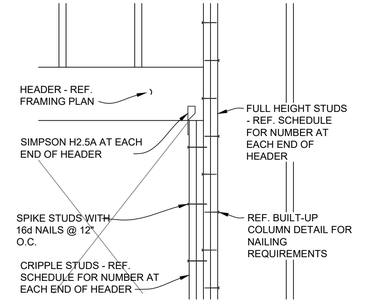
3/4" = 1'-0"



5 SECTION

3/4" = 1'-0"

STUD SCHEDULE		
OPENING WIDTH	NO. OF CRIPPLE STUDS	NO. OF FULL HEIGHT STUDS
LESS THAN 4'-0"	2	1
4'-1" TO 6'-0"	2	2
6'-1" TO 9'-0"	2	2
9'-1" TO 12'-0"	2	3



6 SECTION

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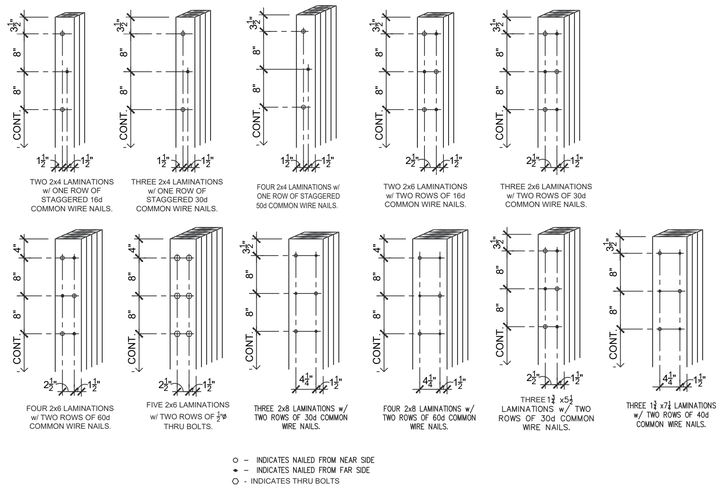

7 SECTION

3/4" = 1'-0"

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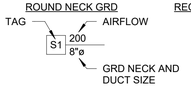
S5.0

GENERAL MECHANICAL NOTES

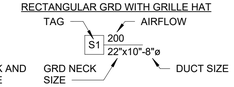
1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY CODE.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, AND APPLICABLE CODES AND REGULATIONS.
4. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
5. CONTRACTOR TO PROVIDE TEST AND BALANCE OF MECHANICAL AND PLUMBING SYSTEMS WITHIN THE SCOPE OF THIS PROJECT. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH AABC STANDARDS.
6. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND REQUIREMENTS.
7. ALL OUTSIDE AIR INTAKES TO BE A MINIMUM OF 10' FROM ANY MECHANICAL EXHAUST, OR PLUMBING VENTS.
8. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH MOST RECENT SMACNA STANDARDS.
9. SUPPORTS FOR MECHANICAL SYSTEM PIPING MUST MEET THE HORIZONTAL AND VERTICAL SPACING PROVISIONS IN RESPECTIVE MECHANICAL CODE.
10. EACH DUCT BRANCH TAKE-OFF SHALL HAVE A MANUAL VOLUME DAMPER.
11. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
12. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
13. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID, ALL COSTS OF ALL TRADES ASSOCIATION WITH THE SUBSTITUTIONS SHALL BE INCLUDED IN THE BID.
14. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO OWNER.
15. CONTRACTOR SHALL PROVIDE AND INSTALL ALL AIR DEVICES WITH MOUNTING SYSTEM DESIGNED FOR MOUNTING SURFACE TYPE.
16. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL-MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT PER ADA REQUIREMENTS. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
17. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED ASSEMBLIES, MATERIALS, AND SEALANTS.
18. ALL EQUIPMENT SHALL BE TAGGED WITH 1/8" THICK PLASTIC TAGS. ALL TAGS SHALL BE ENGRAVED ON A GREEN TAG WITH WHITE LETTERS. ALL TAGS SHALL BE ABLE TO WITHSTAND 160°F. LENGTH SHALL VARY FOR TAG NAME LENGTH, BUT THE HEIGHT SHALL BE NO LESS THAN 1 INCH. TAG SHALL BE FASTENED TO EQUIPMENT EITHER WITH STAINLESS STEEL FASTENERS OR PERMANENT ADHESIVE.
19. PROVIDE VALVES AS REQUIRED BY IMC & IFGC. PROVIDE A MEANS OF ACCESS FOR ALL VALVES AND COORDINATE ACCESS PANEL LOCATIONS WITH ALL TRADES.
20. REFRIGERANT PIPING INSTALLED WITHIN 1-1/2" OF THE UNDERSIDE OF ROOF DECKS SHALL BE PROTECTED FROM DAMAGE CAUSED BY NAILS AND OTHER FASTENERS.
21. ALL SUPPLY TAKE-OFFS SHALL HAVE MANUAL VOLUME DAMPERS.
22. ALL RECTANGULAR DUCT WITH 90° BENDS SHALL HAVE TURNING VANES.
23. ROUTE DUCTWORK AS HIGH AS POSSIBLE, TYPICAL.

GRD CALLOUT LEGEND

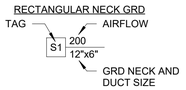
ROUND NECK GRD



RECTANGULAR GRD WITH GRILLE HAT



RECTANGULAR NECK GRD



PLENUM RETURN GRD

MECHANICAL ABBREVIATIONS:

AAV	AUTOMATIC AIR VENT (VALVE)
AC	AIR CONDITIONING UNIT OR AIR COMPRESSOR
ACH	AIR CHANGES PER HOUR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CAV	CONSTANT AIR VOLUME TERMINAL UNIT
CCW	COUNTER CLOCKWISE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CL	CENTER LINE
CMB	COMBUSTION AIR
CONT	CONTINUOUS, CONTINUATION
CR	CONDENSATE RETURN
CT	COOLING TOWER
CU	CONDENSING/ER UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CW	CLOCKWISE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD HEATER
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FP	FIRE PROTECTION
FPB	FAN POWERED TERMINAL UNIT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FSD	FIRE/SMOKE DAMPER
FT	FEET OR FLASH TANK
FV	FACE VELOCITY
GAL	GALLON
GC	GENERAL CONTRACTOR
GD	GRAVITY DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HRP	HYDRONIC RADIANT PANEL
HTG	HEATING
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IN OR "	INCH
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
INSUL.	INSULATION
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LL	LANDLORD
LP	LIQUID PROPANE
LPS	LOW PRESSURE STEAM
LVG	LEAVING
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAINT	MAINTENANCE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MOD	MOTOR OPERATED DAMPER
MECH	MECHANICAL
MIN	MINIMUM OR MINUTE(S)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED OR NOISE CRITERIA
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NK	NECK
NO	NORMALLY OPEN
NO. OR #	NUMBER
NR	NOT REQUIRED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
R	RETURN
RA	RETURN AIR
RC	REHEAT COIL
REQ'D	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
S	SUPPLY
SA	SUPPLY AIR OR SOUND ATTENUATOR
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SUPPLY FAN
SPECS	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STRUC	STRUCTURE/STRUCTURAL
T	THERMOSTAT
TEF	TOILET EXHAUST FAN
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDER-CUT (DOOR)
UGRD	UNDERGROUND
UH	UNIT HEATER (HYDRONIC OR STEAM)
V	VOLT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
W/	WITH
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WT	WEIGHT

TEST AND BALANCE NOTES

CONTRACTOR SHALL PROVIDE TEST AND BALANCE ON THE FOLLOWING SYSTEMS PER THE PROCEDURES OUTLINED IN THE SPECIFICATIONS:

CONSTANT VOLUME AIR SYSTEMS (EXCLUDING UNIT HEATERS, WALL HEATERS, & DUCTLESS MINISPLITS)

CONTROL NOTES

CONTROLS ARE DESIGN/BUILD WITH DESIGN OF THE CONTROL SYSTEM DELEGATED TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETELY FUNCTIONAL CONTROL SYSTEM THAT PERFORMS THE SERVICES BELOW. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE CONTROLS, ACTUATORS, DAMPERS, VALVES, AND ELECTRICAL POWER. CONTRACTOR TO PULL POWER REQUIRED FOR CONTROLS FROM SPARE BREAKERS.

1. THERMOSTAT WILL BE HARDWIRED TO THE SPLIT SYSTEMS AND INTERLOCKED WITH THE BUILDING'S WIFI SYSTEM SO THE OWNER CAN CONTROL THE SYSTEM VIA A PHONE APP AND WEB BROWSER USING GOOGLE CHROME. PROVIDE CLEAR LOCKING COVER ON ALL THERMOSTATS.
2. CONTROLS CONTRACTOR TO SET UP THERMOSTATS ON OWNER'S PHONE AND WEB BROWSER AND PROVIDE OWNER WITH ALL PASSWORDS AND USERNAMES REQUIRED TO CONTROL THE SYSTEM
3. CONTRACTOR TO WORK WITH OWNER TO SET OCCUPIED/UNOCCUPIED SCHEDULES FOR SPLIT SYTEMS AND PROGRAM THOSE SCHEDULES AND SETPOINTS INTO THE THERMOSTATS
4. ALL MINI SPLITS SHALL BE HARDWIRED.

GENERAL SETPOINTS:
- OCCUPIED HEATING SETPOINT = 70°F (ADJ)
- OCCUPIED COOLING SETPOINT = 74°F (ADJ)
- UNOCCUPIED HEATING SETPOINT = 66°F (ADJ)
- UNOCCUPIED COOLING SETPOINT = 78°F (ADJ)

SPLIT SYSTEM CONTROLS (F-1/CU-1):
A. DURING OCCUPIED HOURS, THE OUTSIDE AIR DAMPER SHALL OPEN, THE SUPPLY FAN SHALL RUN CONSTANTLY AND STAGE HEATING/COOLING TO MAINTAIN SPACE OCCUPIED TEMPERATURE SETPOINTS
B. DURING UNOCCUPIED HOURS, THE OUTSIDE AIR DAMPER SHALL CLOSE, THE SUPPLY FAN, HEATING AND COOLING SHALL STAGE TO MAINTAIN SPACE UNOCCUPIED TEMPERATURE SETPOINTS.

DUCTLESS SPLIT SYSTEM (DSI-1/DSO-1):
A. DURING ALL HOURS, THE SUPPLY FAN, HEATING AND COOLING SHALL STAGE TO MAINTAIN SPACE TEMPERATURE SETPOINTS.

BATHROOM EXHAUST FANS (EF-1 THRU EF-6):
A. FANS SHALL BE INTERLOCKED WITH LIGHTSWITCH

ELECTRIC HEATERS (ECH-1 THRU ECH-6 AND EWH-1):
A. HEATERS SHALL BE CONTROLLED BY AN INTERNAL THERMOSTAT
B. HEATER AND FAN SHALL STAGE TO MEET SETPOINT

EQUIPMENT SUBSTITUTION NOTES

WHERE ACCEPTABLE ALTERNATE MANUFACTURER'S ARE NOT LISTED BELOW FOR A TYPE OF PRODUCT, ALTERNATE MANUFACTURERS MAY BE SUBMITTED WITHOUT PRIOR APPROVAL FOR ANY PRODUCT CALLED OUT ON THE MECHANICAL DRAWINGS SO LONG AS THE PRODUCT MEETS THE PERFORMANCE AND FEATURES OF THE SPECIFIED UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL SUBSTITUTED PRODUCTS FIT IN THE ALLOTTED SPACE, USE THE SAME OR LESS POWER, AND DO NOT WEIGH MORE THAN THE SPECIFIED PRODUCTS. WHERE SPECIFIED PRODUCTS ARE IN VIEW IN FINISHED AREAS WITHIN THE BUILDING (GRD'S, WALL HEATERS, ETC), THE SUBSTITUTED PRODUCT MUST MATCH THE APPEARANCE OF THE SPECIFIED PRODUCT. REFERENCE THE GENERAL MECHANICAL NOTES FOR MORE SUBSTITUTION REQUIREMENTS.

JOB SPECIFIC MECHANICAL NOTES

1. ALL DUCT SIZE REPRESENT NET FREE AREA AND EXCLUDE DUCT LINER OR WRAP

MECHANICAL SYMBOL LEGEND

XX"xXX"	RECTANGULAR DUCT TAG - WIDTH x HEIGHT	XX / XX	EQUIPMENT TAG
XX"ø	ROUND DUCT TAG - DIAMETER		SUPPLY DIFFUSER - CEILING
	MEDIUM PRESSURE SUPPLY DUCT		RETURN GRILLE - CEILING
	LOW PRESSURE SUPPLY DUCT		EXHAUST GRILLE - CEILING
	RETURN DUCT		WALL GRILLE
	TRANSFER DUCT		MANUAL VOLUME DAMPER
	EXHAUST DUCT		CONTINUATION
	OUTSIDE AIR DUCT		FLOW ARROW
	ISOLATION VALVE		CONNECT TO EXISTING
	REDUCER	T	THERMOSTAT / TEMPERATURE SENSOR
	ELBOW DOWN	M	MOTORIZED DAMPER

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457959 E. 1118 Road
Sallisaw, Oklahoma 74955

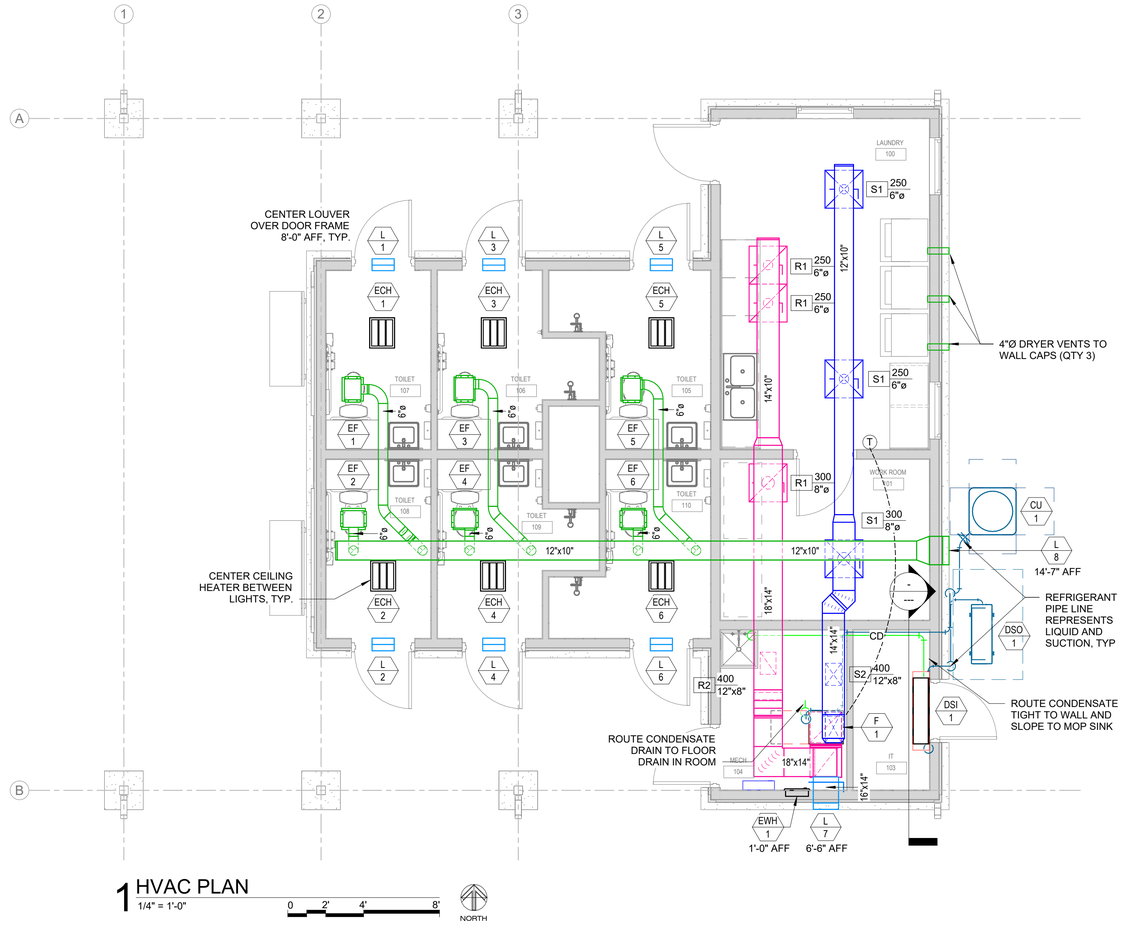
REVISIONS

LICENSED PROFESSIONAL ENGINEER
ALLEN MERK
31032
OKLAHOMA
06/17/2025

DATE
06.17.2025

SHEET
MECHANICAL SYMBOLS, LEGENDS, & NOTES

M0.1



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

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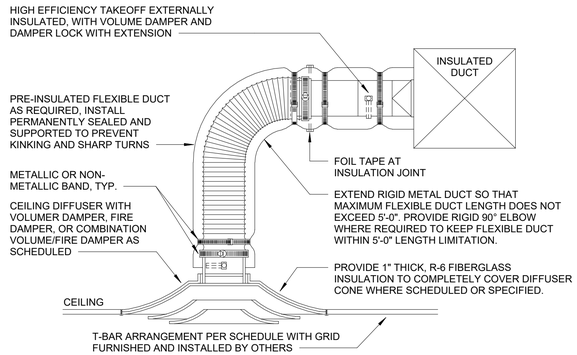
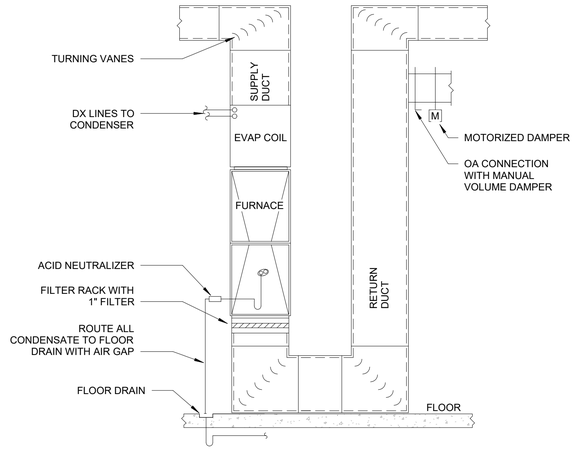
HVAC PLAN

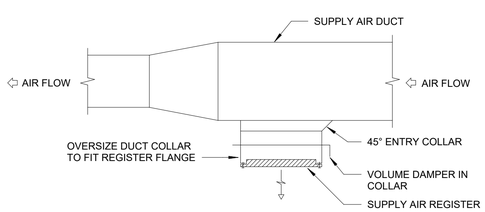
M1.1



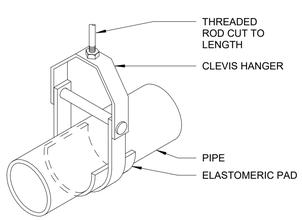
6 LAY-IN AND SLOT TYPE CEILING DIFFUSER DETAIL
NTS



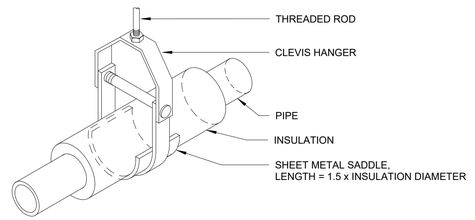
5 FURNACE DETAIL
NTS



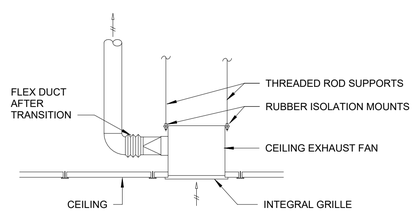
4 DUCT MOUNTED REGISTER DETAIL
NTS



3 CLEVIS HANGER DETAIL - UNINSULATED PIPE
NTS



2 CLEVIS HANGER DETAIL - INSULATED PIPE
NTS



1 CEILING EXHAUST FAN DETAIL
NTS

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MECHANICAL DETAILS

M5.1

SPLIT SYSTEM FAN COIL SCHEDULE

TAG						SUPPLY FAN			COOLING PERFORMANCE							HEATING PERFORMANCE					ELECTRICAL DATA						
									NET CAPACITY		EAT		LAT														
NAME	#	SERVICE	LOCATION	NOMINAL TONS	REFRIGERANT	AIRFLOW	MIN. OA	ESP	TOTAL	SENSIBLE	DB	WB	DB	WB	# OF STAGES	COND. DRAIN	HP OUTPUT @ 10°F	ELEC COIL INPUT	EAT	FINAL LAT	TOTAL STAGES	MCA	MOCP	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
F	1	100, 101, 104	MECH 104	4	R-454B	1200 CFM	220 CFM	0.80 in-wg	39700 Btu/h	32700 Btu/h	79.6 °F	64.9 °F	54.3 °F	53.8 °F	2	3/4"	50794 Btu/h	8.6 kW	60 °F	99.2 °F	2	38 A	40 A	230/1/60	139 lb	RHEEM	RH2TY4821STANNJA	ALL

REMARKS:
1. UPFLOW CONFIGURATION, BOTTOM INLET RETURN, REF 5/M5.1 FOR INSTALLATION DETAIL
2. PROVIDE 7-DAY PROGRAMMABLE WIFI THERMOSTAT. REF M0.1 FOR CONTROL NOTES
3. PROVIDE LOCKING ENCLOSURE FOR THERMOSTAT
4. CONNECT REFRIGERANT PIPING TO CONDENSING UNIT PER MANUFACTURER'S INSTRUCTIONS
5. PROVIDE FILTER RACK ON FURNANCE INLET
6. PROVIDE CONDENSATE OVERFLOW SWITCH IN PRIMARY CONDENSATE PAN TO SHUT DOWN THE UNIT IF CONDENSATE DRAIN IN CLOGGED
7. TRAP CONDENSATE AND ROUTE TO INDIRECT DRAIN OVER RECESSED FLOOR DRAIN IN MECHANICAL ROOM
8. PROVIDE 4" CONCRETE PAD
9. PROVIDE BIPOLAR NEEDLEPOINT IONIZATION WIRED WITH STEPDOWN TRANSFORMERS AS REQUIRED
10. PERFORMANCE BASED ON 105°F AMBIENT TEMPERATURE

SPLIT SYSTEM CONDENSING UNIT SCHEDULE (HEAT PUMP)

TAG						COOLING @ 105°F AMBIENT		HEATING	PIPE SIZE			ELECTRICAL DATA						
NAME	#	SERVICE	NOMINAL TONS	REFRIGERANT	AIRFLOW	TOTAL	SEER	OUTPUT @ 10°F	HSPF	LIQUID	SUCTION	COND. DRAIN	MCA	MOCP	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
CU	1	100, 101, 104	4	R-454B	1200 CFM	39700 Btu/h	14.3	50794 Btu/h	7.5	3/8"	7/8"	3/4"	27 A	45 A	230/1/60	236 lb	RHEEM	RP14AY48AJ2NA	ALL

REMARKS:
1. ELEVATE CONDENSING UNIT ABOVE LOCAL GRADE WITH 4" CONCRETE PAD
2. PROVIDE REFRIGERANT PIPING AND REFRIGERANT PIPING SPECIALTIES AND INSTALL PER MANUFACTURER'S INSTRUCTIONS
3. TWO STAGE COMPRESSOR. ENSURE THERMOSTAT HAS THE ABILITY TO CONTROL BOTH STAGES

LOUVER SCHEDULE

TAG												
NAME	#	SERVICE	DESCRIPTION	Airflow	SIZE	FREE AREA	FREE AREA VELOCITY	DAMPER	MAX PD	MATERIAL / FINISH	MANUFACTURER	MODEL #	REMARKS
L	1	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	2	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	3	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	4	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	5	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	6	SUPPLY	DRAINABLE STATIONARY LOUVER	100 CFM	14"x10"	23%	461 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	7	OA INTAKE	DRAINABLE STATIONARY LOUVER	440 CFM	16"x14"	34%	434 FPM	NONE	0.03 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL
L	8	EXHAUST	DRAINABLE STATIONARY LOUVER	560 CFM	18"x18"	38%	676 FPM	NONE	0.08 in-wg	ALUMINUM	GREENHECK	ESD-435	ALL

REMARKS:
1. PROVIDE INSECT SCREEN
2. ALUMINUM FINISH

FAN SCHEDULE

TAG								MOTOR DATA		ELECTRICAL DATA					
NAME	#	SERVICE	TYPE	AIRFLOW	ESP	MAXIMUM SONES	DAMPER	DRIVE TYPE	SPEED	FLA	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
EF	1	TOILET 107	CEILING	80 CFM	0.25 in-wg	1	BACKDRAFT	DIRECT	900	0.2 A	115/1/60	12 lb	GREENHECK	SP-A90	ALL
EF	2	TOILET 108	CEILING	80 CFM	0.25 in-wg	1	BACKDRAFT	DIRECT	900	0.2 A	115/1/60	12 lb	GREENHECK	SP-A90	ALL
EF	3	TOILET 106	CEILING	100 CFM	0.24 in-wg	2	BACKDRAFT	DIRECT	950	1.2 A	115/1/60	10 lb	GREENHECK	SP-B110	ALL
EF	4	TOILET 109	CEILING	100 CFM	0.24 in-wg	2	BACKDRAFT	DIRECT	950	1.2 A	115/1/60	10 lb	GREENHECK	SP-B110	ALL
EF	5	TOILET 105	CEILING	100 CFM	0.24 in-wg	2	BACKDRAFT	DIRECT	950	1.2 A	115/1/60	10 lb	GREENHECK	SP-B110	ALL
EF	6	TOILET 110	CEILING	100 CFM	0.24 in-wg	2	BACKDRAFT	DIRECT	950	1.2 A	115/1/60	10 lb	GREENHECK	SP-B110	ALL

REMARKS:
1. INTEGRAL BACKDRAFT DAMPER
2. INTEGRAL ELECTRICAL DISCONNECT
3. REF M0.1 FOR CONTROL NOTES
4. INSULATION DOWNSTREAM OF BACKDRAFT/MOTORIZED DAMPER. PROVIDE INSULATION ON EXHUAST DUCT DOWNSTREAM OF BACKDRAFT DAMPER. REF. DUCT CONSTRUCTION SCHEDULE ON THIS SHEET
5. PROVIDE INTEGRAL GRILLE

DUCTLESS SPLIT INDOOR UNIT SCHEDULE

TAG						TOTAL CAPACITY		PIPE SIZE					
NAME	#	LOCATION	NOMINAL TONS	REFRIGERANT	AIRFLOW	COOLING @ 95°F	HEATING @ 10°F	LIQUID	SUCTION	COND. DRAIN	WEIGHT	MANUFACTURER	MODEL #	REMARKS
DSI	1	IT 103	2	R32	495 CFM	22000 Btu/h	24000 Btu/h	3/8"	5/8"	3/4"	37 lb	LG	KNSAP241A	ALL

REMARKS:
1. HIGH WALL STYLE UNIT
2. ROUTE CONDENSATE TO MOP SINK IN MECH 104
3. PROVIDE REFRIGERANT PIPING AND REFRIGERANT PIPING SPECIALTIES AND INSTALL PER MANUFACTURER'S INSTRUCTIONS
4. PROVIDE WIRED THERMOSTAT
5. INDOOR UNIT POWERED OFF OUTDOOR UNIT
6. CONNECT INTO DSO-1 PER MANUFACTURER'S INSTRUCTIONS

DUCTLESS SPLIT OUTDOOR UNIT SCHEDULE

TAG						TOTAL CAPACITY			PIPE SIZE		ELECTRICAL DATA					
NAME	#	SERVICE	NOMINAL TONS	REFRIGERANT	AIRFLOW	COOLING @ 95°F	HEATING @ 10°F	SEER	LIQUID	SUCTION	MCA	MOCP	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
DSO	1	IT 103	2	R32	2119 CFM	22000 Btu/h	24000 Btu/h	22	3/8"	5/8"	19 A	30 A	230/1/60	135 lb	LG	KUSAP241A	ALL

REMARKS:
1. ELEVATE CONDENSATE UNIT ABOVE LOCAL GRADE WITH 4" CONCRETE PAD
2. PROVIDE REFRIGERANT PIPING AND REFRIGERANT SPECIALTIES AND INSTALL PER MANUFACTURER'S INSTRUCTIONS
3. PROVIDE LOW AMBIENT OPERATION FOR COOLING DOWN TO 0°F
4. PROVIDE BASE PAN HEATER

ELECTRIC HEATER SCHEDULE

TAG										
NAME	#	MOUNTING	TYPE	AIRFLOW	HEATING INPUT	FLA	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
EWH	1	RECESSED	FAN-FORCED WALL HEATER	100 CFM	3 kW	13 A	240/1/60	22 lb	QMARK	CWH3407F	1,2,4
ECH	1	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5
ECH	2	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5
ECH	3	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5
ECH	4	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5
ECH	5	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5
ECH	6	CEILING	CEILING MOUNTED FORCED HEATER	150 CFM	4 kW	17 A	240/1/60	23 lb	QMARK	EFF4004	1-3,5

REMARKS:
1. INTEGRAL DISCONNECT
2. INTEGRAL TAMPER RESISTANT THERMOSTAT, SET AT 70°F (ADJ)
3. INSTALL RECESSED IN CEILING
4. INSTALL RECESSED IN WALL
5. ALL WHITE CONSTRUCTION

DUCT CONSTRUCTION SCHEDULE

SYSTEM TAG	DESCRIPTION	LOCATION	MATERIAL	LINER / WRAP	PRESSURE CLASS	SEAL CLASS	LONGITUDINAL SEAM TYPE	REMARKS
SA-LP	LOW PRESSURE SUPPLY - RECTANGULAR	INTERIOR - CONCEALED	GALVANIZED	1" LINER (R-4)	2"	A	PITTSBURGH LOCK	
SA-LP	LOW PRESSURE SUPPLY - RECTANGULAR	INTERIOR - EXPOSED	GALVANIZED	1" LINER (R-4)	2"	A	PITTSBURGH LOCK	
SA-LP	LOW PRESSURE SUPPLY - ROUND	INTERIOR - CONCEALED	GALVANIZED	1" WRAP (R-4)	2"	A	SPIRAL/SNAP LOCK	
RA	RETURN - RECTANGULAR	INTERIOR - ALL	GALVANIZED	1/2" LINER (R-2)	2"	A	PITTSBURGH LOCK	
RA	RETURN - ROUND	INTERIOR - CONCEALED	GALVANIZED	NONE	2"	A	SPIRAL/SNAP LOCK	
OA	OUTSIDE AIR - RECTANGULAR	INTERIOR - CONCEALED	GALVANIZED	2" WRAP (R-8)	2"	A	PITTSBURGH LOCK	
EA	EXHAUST - RECTANGULAR	INTERIOR - ALL	GALVANIZED	2" WRAP (R-8)	2"	A	PITTSBURGH LOCK	
EA	EXHAUST - ROUND	INTERIOR - CONCEALED	GALVANIZED	2" WRAP (R-8)	2"	A	SPIRAL/SNAP LOCK	

NOTES:
- ALL DUCTWORK TO BE CONSTRUCTED PER S.M.A.C.N.A. STANDARDS
- ALL LINER TO BE 1-1/2 LB/CF, FLAME SPREAD RATING OF 25, AND SMOKE DEVELOPMENT RATING OF 50

MECHANICAL PIPING MATERIAL SCHEDULE

SYSTEM TAG	DESCRIPTION	PIPE SIZES	MATERIAL	FITTINGS	INSULATION	REMARKS
CD	CONDENSATE DRAIN - INDOOR	ALL	TYPE "M" COPPER	SOLDER/MECHANICAL PRESS	1/2" ARMAFLEX	
RL	REFRIGERANT LIQUID	ALL	TYPE "L" COPPER ACR	BRAZED	NONE	
RS	REFRIGERANT SUCTION	ALL	TYPE "L" COPPER ACR	BRAZED	3/4" ARMAFLEX	

NOTES:
- ALL PIPING REQUIRING INSULATION THAT IS EXPOSED TO VIEW SHALL HAVE PVC JACKETING. COORDINATE JACKET COLOR WITH ARCHITECT.
- PROVIDE PIPE LABELS AND FLOW ARROWS FOR ALL MECHANICAL PIPING. SUBMIT PIPE TAG PRODUCT DATA DURING SUBMITTAL PROCESS.

AIR TERMINAL SCHEDULE

TAG	SERVICE	DESCRIPTION	MOUNTING	INLET SIZE	FACE SIZE	DAMPER IN NECK	MATERIAL / FINISH	MANUFACTURER	MODEL #	REMARKS
R1	RETURN	PERFORATED DIFFUSER	LAY-IN	SEE PLANS	24"x24"	N	STEEL / WHITE	TITUS	PAR	
R2	RETURN	35° SINGLE DEFLECTION GRILLE, 3/4" SPACING, BLADES PARALLEL TO LONG DIMENSION	DUCT	SEE PLANS	INLET + 2"	OBD	STEEL / WHITE	TITUS	350RL	
S1	SUPPLY	SQUARE PLAQUE DIFFUSER	LAY-IN	SEE PLANS	24"x24"	N	STEEL / WHITE	TITUS	OMNI	
S2	SUPPLY	ADJUSTABLE DOUBLE DEFLECTION GRILLE, 3/4" SPACING, BLADES PARALLEL TO SHORT DIMENSION	DUCT	SEE PLANS	INLET + 2"	OBD	STEEL / WHITE	TITUS	300RS	

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MECHANICAL SCHEDULES

M6.1

EQUIPMENT SUBSTITUTION NOTES

WHERE ACCEPTABLE ALTERNATE MANUFACTURER'S ARE NOT LISTED BELOW FOR A TYPE OF PRODUCT, ALTERNATE MANUFACTURERS MAY BE SUBMITTED WITHOUT PRIOR APPROVAL FOR ANY PRODUCT CALLED OUT ON THE PLUMBING DRAWINGS SO LONG AS THE PRODUCT MEETS THE PERFORMANCE AND FEATURES OF THE SPECIFIED UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL SUBSTITUTED PRODUCTS FIT IN THE ALLOTTED SPACE, USE THE SAME OR LESS POWER, AND DO NOT WEIGH MORE THAN THE SPECIFIED PRODUCTS. FOR PLUMBING FIXTURES, THE SUBSTITUTED PRODUCT MUST MATCH THE APPEARANCE OF THE SPECIFIED PRODUCT.

PLUMBING SYMBOL LEGEND

XX / XX	EQUIPMENT TAG	CW	DOMESTIC COLD WATER
	ISOLATION VALVE	HW	DOMESTIC HOT WATER
	CHECK VALVE	HWR	DOMESTIC HOT WATER RETURN
	PIPE SIZE REDUCER	SS	SANITARY SEWER
	PIPE SIZE INCREASER	V	VENT
	ELBOW DOWN	ST	PRIMARY STORM DRAIN
	ELBOW UP	OFD	OVERFLOW STORM DRAIN
	TEE DOWN	GW	GREASE WASTE
	TEE UP		CONNECT TO EXISTING
	CONTINUATION	XX / XX	RISER TAG

GENERAL PLUMBING NOTES

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND REQUIREMENTS.
3. FURNISH A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE OWNER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS PREPARED BY THE ENGINEER-OF-RECORD AFTER FINAL INSPECTION OF INSTALLED PLUMBING SYSTEMS.
4. FURNISH TO THE OWNER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
5. PLANS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
6. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
7. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
8. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
9. PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
10. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
11. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
12. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
13. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
14. COORDINATE ALL ROOF AND WALL PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
15. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED ASSEMBLIES, MATERIALS, AND SEALANTS.
16. WHERE ANY PVC, PEX, OR COPPER PLUMBING LINE PENETRATES A CONCRETE SLAB AND IS NOT CONCEALED IN A WALL, PROVIDE A CAST IRON SLEEVE THAT IS FLUSH WITH THE BOTTOM OF THE SLAB AND EXTENDS A MINIMUM OF 6" ABOVE THE TOP OF THE SLAB.
17. PROVIDE CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
18. EXPOSED HOT WATER PIPES AND DRAINPIPES UNDER HANDICAPPED ACCESSIBLE LAVATORIES SHALL BE CONFIGURED OR INSULATED TO PROTECT AGAINST CONTACT.
19. RPZ SHALL BE INSTALLED IN THE POTABLE WATER SUPPLY TO EACH LOCATION WHERE SANITIZING CHEMICALS OR DETERGENTS WILL BE ASPIRATED OR PUSHED BY WATER PRESSURE INTO CLEANSING/SANITIZING OPERATION.
20. DRAINAGE AND VENT SYSTEM SHALL BE PRESSURE TESTED WITH WATER OR AIR.
21. ALL RPZ ASSEMBLIES SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR BEFORE INITIAL OPERATION. RECORDS TO VERIFY THIS TESTING SHALL BE AVAILABLE ON SITE.
22. ALL PENETRATIONS OF FLOOR/CEILING ASSEMBLIES SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
23. ALL DRY VENTS SHALL RISE VERTICALLY TO A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST TRAP OR TRAPPED FIXTURE BEING VENTED.
24. CUTOFF VALVES AND STOPS SHALL BE PROVIDED AT FIXTURE CONNECTIONS.
25. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WATER PRESSURE TEST FOR EVALUATING INCOMING DOMESTIC WATER SERVICE PRESSURES, AND REPORT BACK TO THE ENGINEER IF PRESSURE IS LESS THAN 60 PSI. IF INCOMING PRESSURE EXCEEDS 80 PSI, PROVIDE PRESSURE REDUCING VALVE TO REDUCE PRESSURE TO 70 PSI.
27. PROVIDE SEWER CLEANOUTS AT LOCATIONS AND WITH CLEARANCES REQUIRED BY CODE, NOT EXCEEDING 50' IN HORIZONTAL RUNS AND AT EACH CHANGE OF DIRECTION GREATER THAN 45°.
28. CAULK AROUND ALL FIXTURES TO SEAL BETWEEN FIXTURE AND FLOOR OR WALL.
29. SLOPE 3" AND 4" SANITARY SEWER AT 1/8" PER FOOT.
30. SLOPE ALL SANITARY SEWER SMALLER THAN 3" AT 1/4" PER FOOT.
31. SLOPE VENT PIPING AT 1/4" PER FOOT GRADED TO DRIP BACK TO SOIL OR WASTE PIPE BY GRAVITY.
32. ALL SANITARY SEWER AND SANITARY VENT PIPING THAT IS NOT IN A CONDITIONED SPACE MUST BE BURIED NO LESS THAN 6" BENEATH THE FROST LINE.
33. PROVIDE FULL-OPEN AND SHUTOFF VALVES AT ALL LOCATIONS REQUIRED BY IPC SECTION 606. PROVIDE A MEANS OF ACCESS FOR ALL VALVES AND COORDINATE ACCESS PANEL LOCATIONS WITH ALL TRADES.
34. PROVIDE (2) VERTICAL AND (2) LATERAL SUPPORTS TO COLD WATER PIPING IN THE CEILING SPACE UP TO ROOF HYDRANTS TO PREVENT ROOF LEAKS CAUSED BY THE ROOF HYDRANT BEING PULLED OR KICKED.

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ASJ	ALL SERVICE JACKET
CFH	CUBIC FEET PER HOUR
CMB	COMBUSTION AIR
CO	CLEANOUT
CONT	CONTINUATION
CP	CIRCULATION PUMP
CW	COLD WATER
DCV	DOUBLE CHECK VALVE
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWV	DRAIN, WASTE, VENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FPRH	FREEZEPROOF ROOF HYDRANT
FPWH	FREEZEPROOF WALL HYDRANT
FS	FLOOR SINK
GPM	GALLONS PER MINUTE
GV	GREASE VENT
GW	GREASE WASTE
HB	HOSE BIB
HW	HOT WATER
HS	HAND SINK
HWR	HOT WATER RETURN
IMB	ICE MAKER BOX
LAV	LAVATORY
MAX	MAXIMUM
MSB	MOP SINK
NG	NATURAL GAS
N.I.C	NOT IN CONTRACT
ORD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
REF	REFERENCE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SK	SINK
SP	SUMP PUMP
SS	SANITARY SEWER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT TO ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WATER FOUNTAIN
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
YCO	YARD CLEANOUT

PLUMBING PIPING MATERIAL SCHEDULE

SYSTEM TAG	DESCRIPTION	PIPE SIZES	MATERIAL	FITTINGS	INSULATION	REMARKS
SS/V	SANITARY DRAINAGE & VENT (ABOVE GRADE)	ALL	CAST IRON	HUB & SPIGOT/HUBLESS	NONE	
			TYPE "L" COPPER	SOLDER/FLANGED		
			SCH. 40 PVC	SOLVENT		
SS/V	SANITARY DRAINAGE & VENT (BELOW GRADE)	ALL	CAST IRON	HUB & SPIGOT/HUBLESS	NONE	
			TYPE "L" COPPER	SOLDER/FLANGED		
			SCH. 40 PVC	SOLVENT		
CW	POTABLE COLD WATER (ABOVE GRADE)	ALL	PEX (ASTM F876 & F877)	METAL INSERT AND COPPER CRIMP RINGS	3/4" CLOSED CELL OR 3/4" FIBERGLASS W/ ASJ	2,3
CW	POTABLE COLD WATER (BELOW GRADE)	ALL	PEX (ASTM F876 & F877)	METAL INSERT AND COPPER CRIMP RINGS	NONE	1, 4
HW	POTABLE DOMESTIC HOT WATER (ABOVE GRADE)	ALL	PEX (ASTM F876 & F877)	METAL INSERT AND COPPER CRIMP RINGS	1" CLOSED CELL OR 1" FIBERGLASS W/ ASJ	2,3
HW	POTABLE HOT WATER (BELOW GRADE)	ALL	PEX (ASTM F876 & F877)	METAL INSERT AND COPPER CRIMP RINGS	NONE	1

REMARKS:
1. ENSURE PEX PIPING IS INSTALLED SO THERE ARE NO JOINTS BELOW GRADE.
2. PROVIDE ASTM F876 MULTIPLE-OUTLET MANIFOLD WITH VALVE FOR EACH OUTLET FOR DISTRIBUTION.
3. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" INSULATION TO PREVENT FREEZING.
4. FOR DOMESTIC WATER ENTRY INTO THE BUILDING, MATCH MATERIAL SPECIFIED ON CIVIL DRAWINGS. REFERENCE DOMESTIC WATER SERVICE ENTRANCE DETAIL.

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31032
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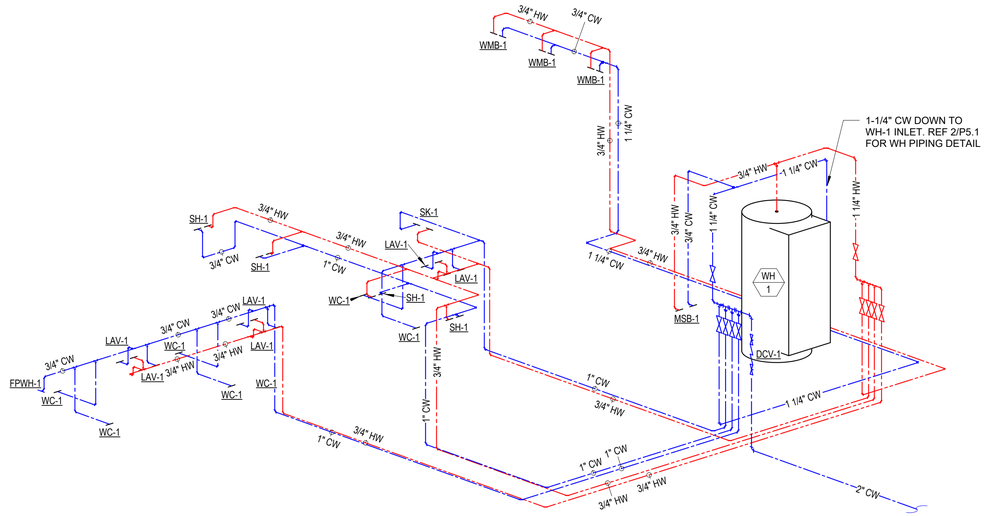
06/17/2025

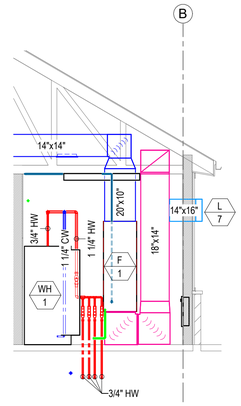
DATE
06.17.2025

SHEET
PLUMBING NOTES AND SCHEDULES

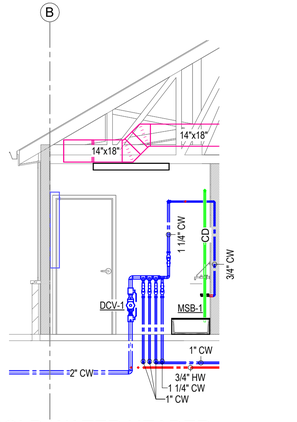
P0.1



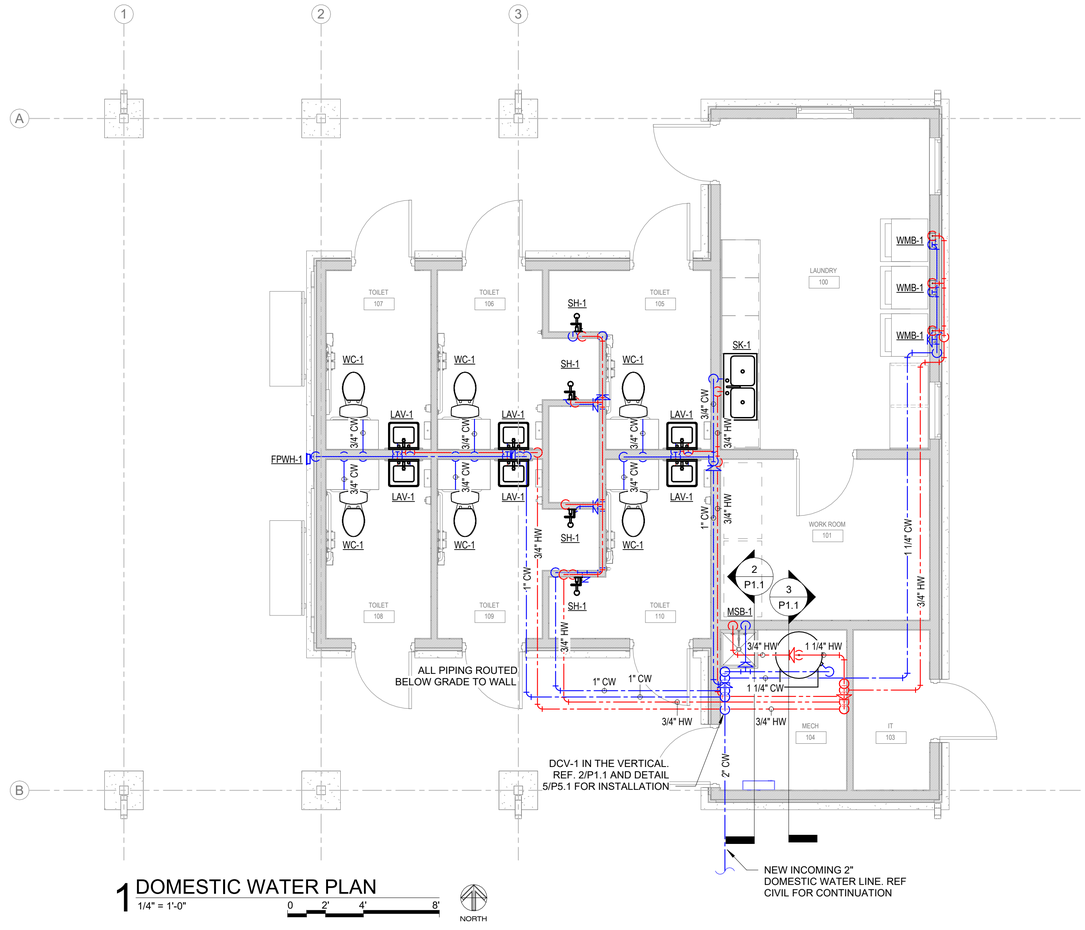
4 DOMESTIC RISER DIAGRAM



3 HOT WATER HEADER
1/4" = 1'-0"



2 COLD WATER HEADER
1/4" = 1'-0"



1 DOMESTIC WATER PLAN
1/4" = 1'-0"

NORTH

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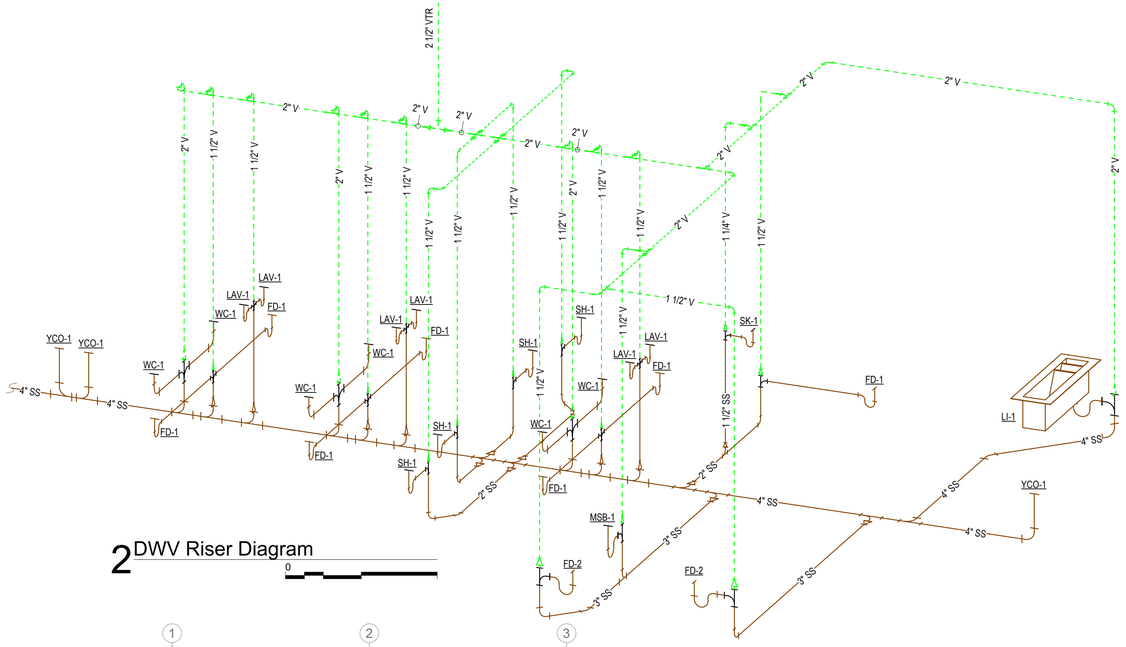
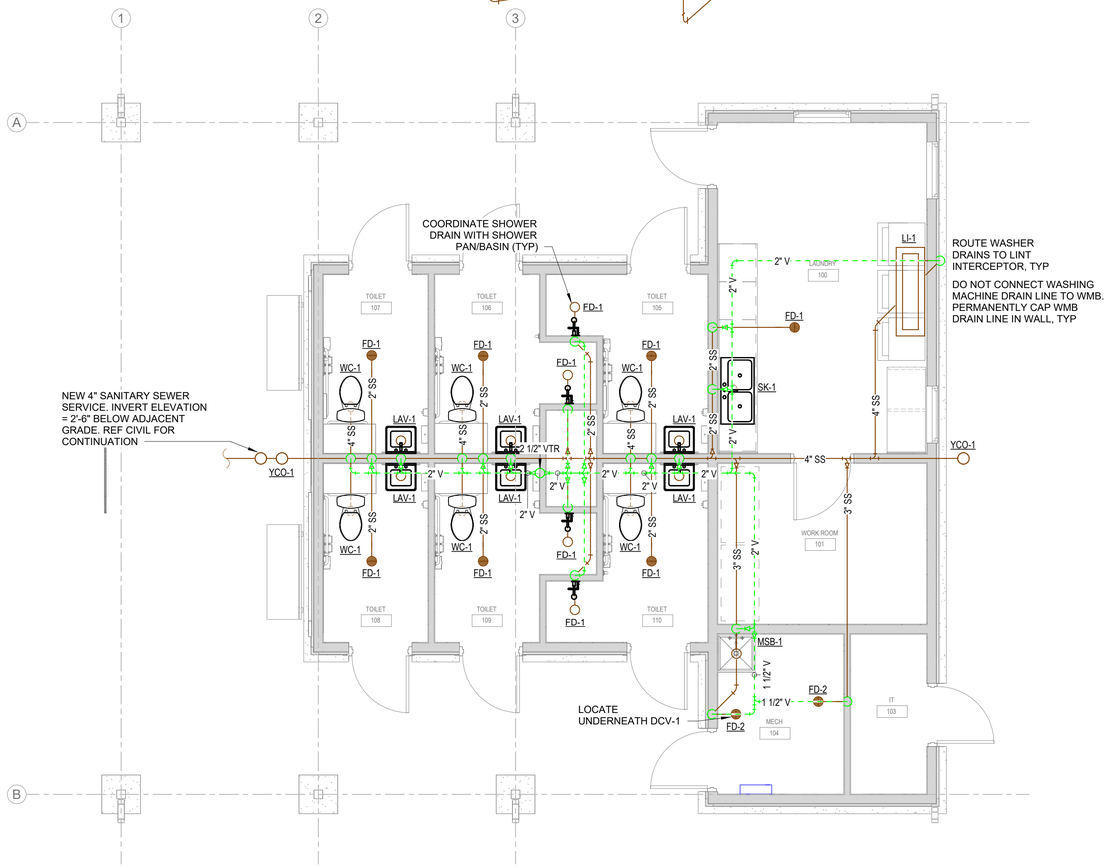
DOMESTIC WATER PLUMBING PLAN

P1.1



2 DWV Riser Diagram



1 SANITARY PLUMBING PLAN
1/4" = 1'-0"

NORTH

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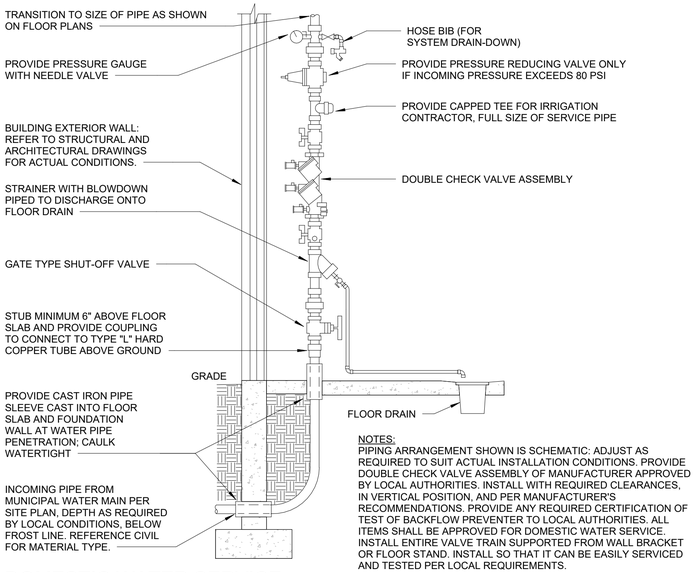
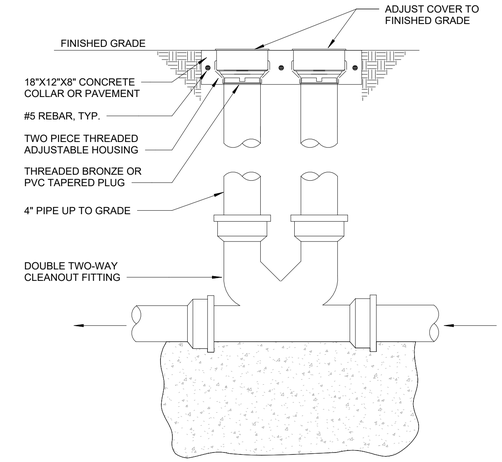
SANITARY PLUMBING PLAN

P2.1

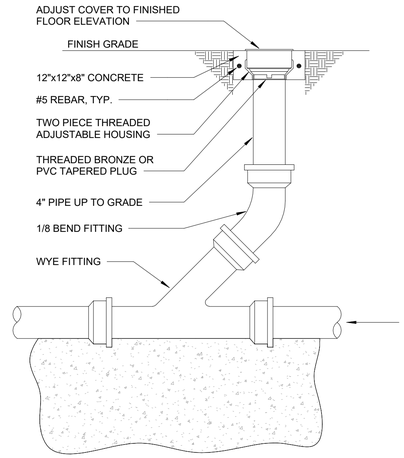


NOTES:
PIPING ARRANGEMENT SHOWN IS SCHEMATIC: ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS. PROVIDE DOUBLE CHECK VALVE ASSEMBLY OF MANUFACTURER APPROVED BY LOCAL AUTHORITIES. INSTALL WITH REQUIRED CLEARANCES, IN VERTICAL POSITION, AND PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES. ALL ITEMS SHALL BE APPROVED FOR DOMESTIC WATER SERVICE. INSTALL ENTIRE VALVE TRAIN SUPPORTED FROM WALL BRACKET OR FLOOR STAND. INSTALL SO THAT IT CAN BE EASILY SERVICED AND TESTED PER LOCAL REQUIREMENTS.

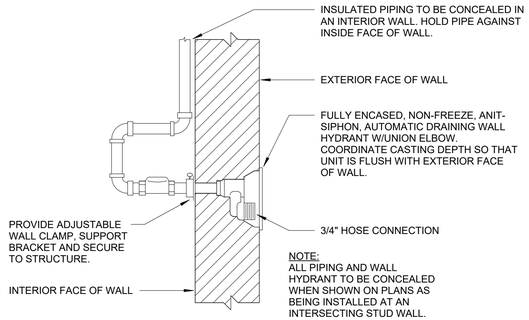
8 DOMESTIC WATER SERVICE ENTRANCE (DCV-1)
NTS



7 TWO WAY YARD CLEANOUT
NTS

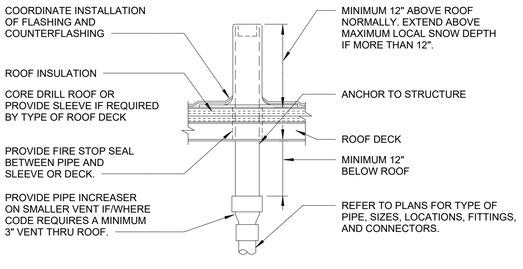


6 ONE WAY GRADE CLEANOUT
NTS



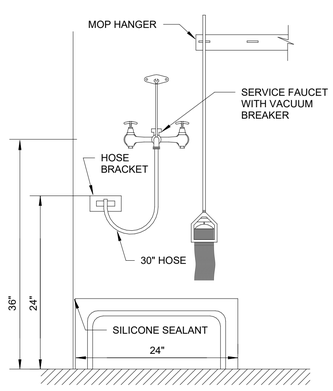
NOTE:
ALL PIPING AND WALL HYDRANT TO BE CONCEALED WHEN SHOWN ON PLANS AS BEING INSTALLED AT AN INTERSECTING STUD WALL.

5 FREEZE PROOF WALL HYDRANT
NTS

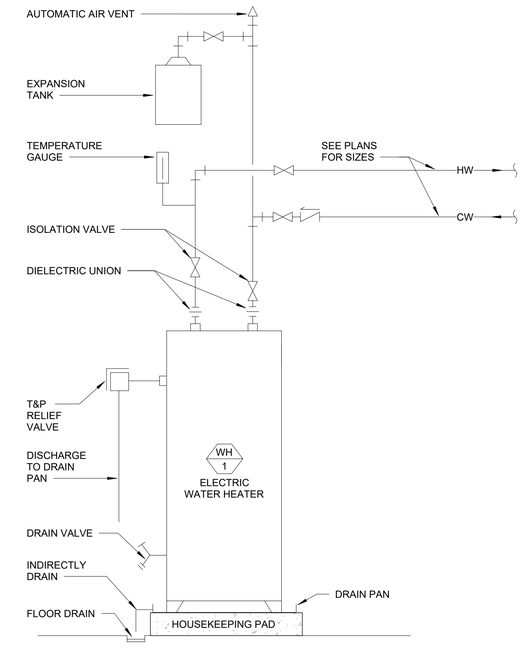


LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING.

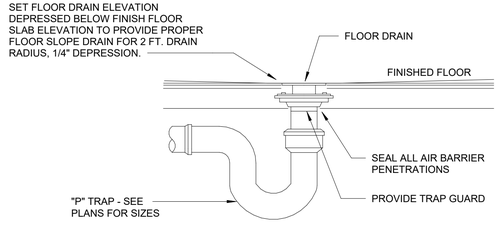
4 VENT THRU ROOF (VTR)
NTS



3 MOP SINK DETAIL
NTS



2 ELECTRIC WATER HEATER DETAIL
NTS



1 FLOOR DRAIN DETAIL
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PLUMBING DETAILS

P5.1

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	RISER & AIR CHAMBER SIZES		NIPPLE & VALVE CONNECTION SIZES		CODE CONNECTION REQUIREMENTS		BASIS OF DESIGN		REMARKS
		HW	CW	HW	CW	SS	VENT	MANUFACTURER	MODEL #	
DCV-1	DOUBLE CHECK VALVE BACKFLOW PREVENTER	-	2"	-	2"	-	-	WATTS	007	THE ASSEMBLY SHALL CONSIST OF TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS. THE CHECK MODULE SEATS AND SEAT DISCS SHALL BE REPLACEABLE. PROVIDE QUARTER TURN BALL VALVES ON BOTH SIDES OF THE BACKFLOW PREVENTER ASSEMBLY AND A Y-STRAINER UPSTREAM OF THE BACKFLOW PREVENTER ASSEMBLY. ASSEMBLY SHALL BE CAPABLE OF 75 GPM WITH A MAXIMUM PRESSURE DROP OF 6 PSI. ASSEMBLY SHALL BE ASSE 1015 COMPLIANT AND BE LEAD FREE.
FD-1	FLOOR DRAIN	-	-	-	-	2"	1-1/4"	ZURN	ZN415S	DURA-COATED CAST IRON BODY WITH 'TYPE S' POLISHED NICKEL BRONZE, HEEL PROOF 5"x5" SQUARE STRAINER PROVIDE ZURN Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE AND INSTALL PER MANUFACTURER INSTRUCTIONS
FD-2	RECESSED FLOOR DRAIN	-	-	-	-	3"	1-1/2"	ZURN	ZN415I	DURA-COATED CAST IRON BODY WITH 'TYPE I' POLISHED NICKEL BRONZE, RECESSED STRAINER PROVIDE ZURN Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE AND INSTALL PER MANUFACTURER INSTRUCTIONS
FPWH-1	FREEZEPROOF WALL HYDRANT	-	3/4"	-	3/4"	-	-	WOODFORD	MODEL B65	AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH 3/4" HOSE CONNECTION, ANTI-SIPHON VACUUM BREAKER, AND HOUSED IN A TAMPER RESISTANT BRASS BOX, HYDRANT STILL DRAINS AS HANDLE IS SHUT OFF WHILE HOSE IS CONNECTED, CHROME EXTERIOR FINISH. PROVIDE OWNER WITH ENCLOSURE KEY
LAV-1	WALL MOUNTED LAVATORY (ADA)	3/4"	3/4"	1/2"	1/2"	1-1/2"	1-1/4"	AMERICAN STANDARD	DECORUM 9024.001EC	PROVIDE 20"x18" VITREOUS CHINA LAVATORY WITH EVERCLEAN, WHITE, ADA COMPLIANT, SINGLE HOLE (CENTER) WITH OVERFLOW. PROVIDE AMERICAN STANDARD 7075.104 COLONY PRO SINGLE CONTROL FAUCET, 1.2 GPM, SINGLE HOLE DECK MOUNTED, POLISHED CHROME PROVIDE THERMOSTATIC MIXING VALVE (ASSE 1070 CERTIFIED), TRUEBRO LAVGUARD2, AND WALL CARRIER
LI-1	LINT TROUGH INTERCEPTOR	-	-	-	-	4"	2"	WATTS	LI-4-LT	48"x10"x14" STAINLESS STEEL LINT TROUGH WITH REMOVABLE STAINLESS STEEL FILTER SCREENS, PERFORATED STAINLESS STEEL DOME BOTTOM STRAINER, PRIMARY FILTER SCREEN WITH 3/8" PERFORATED HOLES, SECONDARY FILTER SCREEN WITH 5/16" PERFORATED HOLES
MSB-1	MOP SERVICE BASIN	3/4"	3/4"	1/2"	1/2"	3"	1-1/2"	FIAT	MSBID-2424	24"x24"x10" MOLDED STONE MOP SERVICE BASIN WITH INTEGRAL 3" DRAIN PROVIDE 830AA WALL MOUNTED SERVICE FAUCET WITH 3/4" HOSE CONNECTION, INTEGRAL STOPS, INTEGRAL VACUUM BREAKER, ADJUSTABLE WALL BRACE, AND PAIL HOOK. PROVIDE 832AA HOSE AND HOSE BRACKET, 889CC MOP HANGER, AND MSG2424 STAINLESS STEEL WALL GUARDS
SH-1	SHOWER	3/4"	3/4"	1/2"	1/2"	1-1/2"	1-1/4"	SEE ARCH	SEE ARCH	SHOWER SURROUND, FLOOR, AND ADA ACCESSORIES SPECIFIED BY ARCHITECT PROVIDE SYMMONS 9605-PLR SHOWER SYSTEM KIT: ORIGINS SHOWER/HAND SHOWER TRIM, TEMPTROL PRESSURE BALANCING SHOWER VALVE, AND SYMMONS DUAL OUTLET DIVERTER VALVE, 60" FLEXIBLE HOSE, ADA COMPLIANT, 2.0 GPM PROVIDE FLOOR DRAIN (FD-1)
SK-1	DOUBLE BOWL DROP-IN SINK	3/4"	3/4"	1/2"	1/2"	1-1/2"	1-1/4"	DAYTON	DSE23319	PROVIDE 31" X 19" X 8", DOUBLE BOWL DROP-IN SINK, 300 SERIES STAINLESS STEEL, 20 GAUGE, SINGLE FAUCET HOLE, CENTER DRAIN PLACEMENT PROVIDE AMERICAN STANDARD STUDIO S MODEL# 4803100 PULL-OUT DUAL SPRAY FAUCET, 9-1/16" FAUCET NECK, METAL LEVER HANDLE, 1 HOLE FAUCET, REFER TO ARCHITECT/OWNER FOR COLOR, 1.5 GPM PROVIDE DAYTON D1125 3-1/2" STAINLESS STEEL DRAIN WITH REMOVABLE BASKET SSTRAINER AND RUBBER STOP PROVIDE INSINKERATOR BADGER 5, 1/2 HP, 120V/60HZ, 6.3 AMP, FACTORY INSTALLED POWER CORD, WALL SWITCH CONTROLLED
WC-1	FLOOR MOUNTED TANK TYPE WATER CLOSET (ADA)	-	3/4"	-	1/2"	4"	2"	AMERICAN STANDARD	2467.016	CADET PRESSURE-ASSISTED TOILET, ADA, ELONGATED, FLOOR MOUNT, TANK-TYPE, 1.6 GPF, VITREOUS CHINA, WHITE PROVIDE AMERICAN STANDARD 5503A SLOW-CLOSE SEAT, WHITE
WMB-1	WASHING MACHINE BOX	3/4"	3/4"	1/2"	1/2"	-	-	OATEY	38995	WASHING MACHINE OUTLET BOX WITH 1/4 TURN BRASS HAMMER BALL VALVES AND RUBBER TAILPIECE, WHITE PLUG THE DRAIN OUTLET ON THE WASHING BOX SINCE IT WILL NOT BE USED. ROUTE WASHER DRAIN TO LINT TROUGH INTERCEPTOR LI-1
YCO-1	YARD CLEANOUT	-	-	-	-	4"	-	ZURN	ZN1400	DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND CAST IRON TOP

WATER HEATER SCHEDULE (ELECTRIC)

TAG				PERFORMANCE DATA			WATER CONN. SIZES		ELECTRICAL DATA					
NAME	#	SERVICE	LOCATION	CAPACITY	RECOVERY	RISE	CW	HW	INPUT	SERVICE V/PH/HZ	WEIGHT	MANUFACTURER	MODEL #	REMARKS
WH	1	LAUNDRY FACILITY	MECH 104	120 gal	74 GPH	100 °F	1 1/4"	3/4"	18 kW	240/1/60	390 lb	AO SMITH	DRE-120-18	ALL

REMARKS:
1. PROVIDE DRAIN PAN AND ROUTE DRAIN PAN OUTLET TO INDIRECTLY DISCHARGE OVER FLOOR DRAIN
2. PROVIDE EXPANSION TANK
3. PROVIDE T&P VALVE AND ROUTE VALVE OUTLET TO DRAIN PAN
4. SET HOT WATER SUPPLY TEMPERATURE TO 140°F
5. PROVIDE HOUSEKEEPING PAD
6. REF 2/P5.1 FOR INSTALLATION DETAIL

mgm design group

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ALLEN MERK
31032
OKLAHOMA
06/17/2025

DATE
06.17.2025

SHEET
PLUMBING SCHEDULES

P6.1

GENERAL ELECTRICAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID IN ORDER TO VERIFY THE EXTENT OF THE CONSTRUCTION WORK AND THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. SUBMITTAL OF BID SHALL BE CONSIDERED PROOF THAT THE CONTRACTOR HAS VISITED THE JOB SITE AND IS FAMILIAR WITH THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL NECESSARY PERMITS AND LICENSES REQUIRED FOR WORK. PAY ALL LAWFUL FEES, INCLUDING, BUT NOT LIMITED TO UTILITY DEPOSITS, INSPECTION FEES, AND TEMPORARY AND PERMANENT CONSTRUCTION FEES.
3. PROVIDE ELECTRICAL UTILITY WITH THE CONSTRUCTION SCHEDULE WHEN IT BECOMES AVAILABLE.
4. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. FAILURE TO COORDINATE WITH OTHER TRADES SHALL NOT RESULT IN A CHANGE ORDER.
5. NOTIFY ARCHITECT AND REQUEST ADDITIONAL INFORMATION FOR PROPOSED ALTERNATE OR ALTERNATE EQUIPMENT OTHER THAN LISTED IN CONTRACT DOCUMENTS OR SUBMITTED DURING PRODUCT REVIEW WHICH REQUIRES ADDITIONAL SPACE, SUPPORT, LAYOUT OR ELECTRICAL REQUIREMENT. PROVIDE WORK ONLY AFTER WRITTEN NOTICE TO PROCEED FROM ENGINEER OF RECORD.
6. SERVICE EQUIPMENT SHALL BE MARKED WITH THE AVAILABLE FAULT CURRENT ON THE PANEL PER NEC 110.24. COORDINATE WITH LOCAL UTILITY.
7. PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET THE REQUIREMENTS OF NEC 210.4(B).
8. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZED PER NEC) IN ALL CONDUITS CONTAINING POWER CIRCUITS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
9. PROVIDE A COMPLETE TYPED PANELBOARD IDENTIFICATION SCHEDULE AND PANELBOARD NAMEPLATE FOR ALL PANELS.
10. PROVIDE DEVICE LABELS (STICK ON MYLAR TAPE LABEL/ WITH PANEL AND BRANCH CIRCUIT-1/4" HIGH BLACK LETTER) FOR ALL ELECTRICAL DEVICES.
11. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4" C UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE MAY BE USED FOR THE FINAL 15-FT OF RUN. MINIMUM CONDUIT SIZE SHALL BE 1" FOR ALL UNDERSLAB & BELOW GRADE INSTALLATIONS.
12. CONTRACTOR SHALL SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3)(a) WHERE CIRCUITS ARE GROUPED.
13. ALL FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED ABOVE GROUND, UNLESS SPECIFICALLY NOTED IN PLANS TO BE BELOW GRADE.
14. UTILIZE POLARIS LUGS FOR MULTI-TAP
15. MINIMIZE VISIBILITY OF SURFACE-MOUNTED CONDUIT. GROUP CONDUITS AND ROUTE HORIZONTALLY TO NEAREST BREAK IN WALL, TURN 90 DEGREES AND ROUTE TO STRUCTURE. GROUP BRANCH CIRCUITS WHEN POSSIBLE TO REDUCE CONDUITS. UTILIZE NEAREST WALL CHASES WHEN POSSIBLE.
16. PROVIDE ARC FLASH WARNING LABELS ON ALL REQUIRED EQUIPMENT.
17. HOMERUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. CONTRACTOR IS PERMITTED TO COMBINE HOMERUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.
18. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
    A. LIGHTING DEVICES +48"
    B. RECEPTACLES +18"
    C. GFI RECEPTACLES +24"
    D. TELEPHONE +48"
    E. TELEPHONE/DATA +18"
    F. DATA +18"
    G. FIRE ALARM PULL STATION +48"
19. PROVIDE MULTIGANG JUNCTION BOX WITH SINGLE FACE PLATE AT ALL LOCATIONS SHOWING MULTIPLE ADJACENT SWITCHES AT SAME LOCATION.
20. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
    A. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS AND EXACT LOCATIONS.
    B. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.
21. ALL PENETRATIONS THROUGH SIDE WALLS OR ROOF ARE TO BE COORDINATED WITH ARCHITECT AND SEALED IN A WAY THAT MAINTAINS MANUFACTURER'S WARRANTY.
22. UPON COMPLETION OF ELECTRICAL INSTALLATION AND PRIOR TO ENERGIZING THE CIRCUIT:
    A. INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE.
    B. PERFORM CONTINUITY TEST.
    C. VERIFY PROPER PHASING CONNECTION TO ALL THREE PHASE MOTOR LOADS.
23. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ACCEPTABLE MANUFACTURERS SHALL BE AS INDICATED FOR EQUIPMENT SCHEDULED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING AND EQUIPMENT AND MAKE ALL FINAL CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM IN CONFORMANCE WITH EQUIPMENT MANUFACTURER WIRING DIAGRAMS.
24. COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND MILLWORK DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS PRIOR TO ROUGH-IN. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.
25. COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. WHERE PROVIDED EQUIPMENT NAMEPLATE PROTECTIVE DEVICE RATING DIFFERS FROM SIZE SPECIFIED, PROVIDE WIRING AND OVERCURRENT DEVICE WITH APPROPRIATE RATING PER NEC.
26. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND WIRING FROM DISCONNECT SWITCH OR JUNCTION BOX TO EQUIPMENT KNOCKOUT OR ELECTRICAL CONNECTION POINT FOR ALL OUTDOOR OR OTHER WET-LOCATION EQUIPMENT CONNECTIONS.
27. COORDINATE EXACT LOCATION AND REQUIREMENTS OF ALL APPLIANCES AND OTHER DEVICES WITH OTHER TRADES AND VENDORS PRIOR TO ROUGH-IN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL REQUIREMENTS AS REQUIRED BY EQUIPMENT PROVIDER AND/OR EQUIPMENT DRAWINGS. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
28. REFER TO MECHANICAL PLANS FOR CONTROL OF EXHAUST FANS, VRF SYSTEM, BRANCH CONTROLLERS, AHU'S, MAU'S ETC. PROVIDE ALL ELECTRICAL REQUIREMENTS INCLUDING DISCONNECT SWITCH, SPEED CONTROLLER, AND MOTOR STARTER.
29. PROVIDE 4'x8'x3/4" FIRE RETARDANT PLYWOOD BACKBOARD FOR ANY TELEPHONE TERMINAL BOARDS U.N.O. PROVIDE DUPLEX RECEPTACLE AT +48".

FIRE ALARM NOTE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A DIGITAL ADDRESSABLE FIRE ALARM SYSTEM RESULTING IN A COMPLETE AND OPERABLE FIRE ALARM SYSTEM THAT COMPLIES WITH NFPA 72, NFPA 1221, IFC 510.1 AND IS APPROVED BY THE OWNER AND THE AUTHORITIES HAVING JURISDICTION. FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE DRAWINGS DESIGNED BY NICET LEVEL IV INDIVIDUAL, EQUIPMENT CUT SHEETS, ETC. PER LOCAL CODE AND NFPA 72 TO LOCAL AUTHORITIES HAVING JURISDICTION AND ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT. INCLUDE IN BID ALL COSTS FOR PERMITS AND FEES. DEVICES SHALL BE STANDARD PRODUCT OF SINGLE MANUFACTURER, SHALL DISPLAY THE MANUFACTURER'S NAME ON EACH COMPONENT. COORDINATE WITH OWNER FOR ACCEPTABLE MODELS AND DESIGN REQUIREMENTS.

PROJECT SPECIFIC NOTES

1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE 2023 NATIONAL ELECTRICAL CODE (NEC) (INCLUDING LOCAL AMENDMENTS), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
2. PROVIDE TRENCH TAPE WARNING OF ELECTRICAL INSTALLATION 6" ABOVE TOP OF ALL CONDUIT INSTALLED BELOW GRADE.
3. PROVIDE DATA ROUGH-IN, INCLUDING BACK BOXES, MINIMUM OF 1" EMT TURNED OUT 90 DEGREES IN CEILING SPACE, AND PULL STRING. PROVIDE BUSHINGS FOR ALL LOW-VOLTAGE CONDUITS. BUNDLE, TRAIN, AND ROUTE ALL CONDUCTORS UTILIZING CABLE TRAY OR J-HOOKS BACK TO SYSTEM HEAD-END EQUIPMENT.
4. ACCESS CONTROL AND CCTV SYSTEM BY OTHERS. COORDINATE WITH VENDOR TO PROVIDE 120V POWER FOR SYSTEMS AS NEEDED.
5. USE OF METALCLAD CABLE IS ACCEPTABLE FOR LIGHTING WHIPS. OTHER USES ARE SUBJECT TO APPROVAL BY ENGINEER OF RECORD PRIOR TO INSTALLATION.
6. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE. SET-SCREW TYPE NOT ALLOWED.
7. EXTERIOR AND ROOF MOUNTED MAINTENANCE RECEPTACLES SHALL BE GFCI/WR TYPE. RECEPTACLES SHALL BE INSTALLED IN METALLIC WP BOX WITH METALLIC IN-USE COVER.
8. WIRING DEVICE COLORS: REFER TO SPECIFICATIONS FOR SPECIALTY DEVICES. STANDARD DEVICES SHALL BE WHITE. WALL PLATES SHALL BE WHITE.
9. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY NEC 406.12.
10. WHERE LOW VOLTAGE SYSTEMS ARE ROUTED THROUGH OPEN TO STRUCTURE AREAS, LOW VOLTAGE CABLING TO BE CONCEALED WITHIN CONDUIT, GROUPED AND SECURED USING J-HOOKS ALONG WALLS, OR SECURED TO STRUCTURE.

GENERAL LIGHTING NOTES

1. THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.
2. COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.
3. WHERE FIELD CONDITIONS WILL INTERFERE WITH THE INTENDED LIGHTING LAYOUT, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND ENGINEER OF RECORD.
4. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
5. EXIT LIGHTS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING AREA.
6. LIGHT FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL HAVE ADDITIONAL UNSWITCHED HOT/NEUTRAL PAIR OF CONDUCTORS ROUTED TO BATTERY PACK.
7. PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.
8. PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYP. BOARD PER ARCHITECTURAL CEILING PLAN.
9. EXIT SIGN MOUNTING:
    A. WALL: CENTER 12" ABOVE DOOR OPENING.
    B. CEILING/PENDANT: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
10. EMERGENCY LIGHT MOUNTING:
    A. COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR MAINTAINED LIGHTING LEVELS AND COORDINATE ELEVATIONS WITH ARCHITECT AND ENGINEER.
11. EMERGENCY LIGHT ELECTRICAL CONNECTION:
    A. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
    B. AFTER EMERGENCY LIGHT HAS BEEN POWERED DO NOT REMOVE POWER FOR EXTENDED PERIODS OF TIME.
12. PROVIDE LIGHT FIXTURE SUPPORTS AND RESTRAINTS TO COMPLY WITH APPLICABLE SEISMIC ZONE REQUIREMENTS.
13. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES TO OWNER.
14. ALL OCCUPANCY SENSING DEVICES (DUAL-TECHNOLOGY, PIR, AND ULTRASONIC) SHALL HAVE AN AUTOMATIC TIME DELAY OF 20 MINUTES MAX FOR TURNING LIGHTS OFF.

ABBREVIATIONS

A Amperes	IMC Intermediate Metal Conduit
AC Air Conditioning	kV Kilovolts
AFF Above Finished Floor	kVA KiloVolt-Amperes
AFG Above Finished/Final Grade	kW Kilowatts
AIC Amperes Interrupting Capacity	LCD Liquid Crystal Display
ATS Automatic Transfer Switch	LED Light Emitting Diode
AWG American Wire Guage	LV Low Voltage
BAS Building Automation System	MC Momentary Contact
BPS Bolted Pressure Switch	MDF Main Distribution Frame
C Conduit	N Neutral
CB Circuit Breaker	O.C. On Center
CDF Cable Distribution Frame	P Pole
CKT Circuit	PC Photocell
ded dedicated	PNL Panel
DIA Diameter	PVC Polyvinyl Chloride
DP Distribution Panel	SPD Surge Protective Device
EB Electronic Ballast	SW Switch
EMT Electric Metallic Tubing	SWBD Switchboard
fc Footcandles	UNO Unless noted otherwise
G Ground	UON Unless otherwise noted
GFI Ground Fault Circuit Interrupter	UPS Uninterruptible Power Supply
GFCI Ground Fault Circuit Interrupter	UTP Unshielded Twisted Pair
GFP Ground Fault Protection	V Volts
GND Ground	VA Volt-Amperes
GRC Galvanized Rigid Conduit	VFD Variable Frequency Drive
HID High Intensity Discharge	W Watts
HP Heat Pump / Horsepower	w/ with
HVAC Heating, Ventilation, and Air Conditioning	WP Weatherproof
HWG Heavy Wall Gauge	WR Weather-resistant
IDF Intermediate Distribution Frame	XFMR Transformer

POWER SYMBOL LEGEND

	ELECTRICAL SWITCHBOARD
	ELECTRICAL PANELBOARD
	ELECTRICAL DISCONNECT SWITCH
	FUSED ELECTRICAL DISCONNECT SWITCH
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
(g,n,h)	HOMERUN, CONCEALED IN WALLS AND CEILINGS
(g,n,h)	HOMERUN, CONCEALED IN SLAB OR BELOW GRADE
A-25 (a)	CIRCUIT AND (assigned switch group)
	LOW VOLTAGE WIRING
$M	MANUAL MOTOR STARTER SWITCH
	ELECTRICAL POINT OF CONNECTION OR GROUND ROD
J	ELECTRICAL JUNCTION BOX
	DUPLEX RECEPTACLE
	DOUBLE-DUPLEX RECEPTACLE
	GFCI RECEPTACLE
	6" ABOVE COUNTER, COORDINATE FINAL HEIGHTS WITH MILLWORK ELEVATIONS
	SIMPLEX RECEPTACLE, NEMA TYPE NOTED ON PLANS
	DUPLEX/USB COMBO RECEPTACLE
FB#	FLOOR BOX, REFER TO EQUIPMENT SCHEDULE FOR TYPE INFORMATION
S	SMOKE DETECTOR
TC	TIMECLOCK

LIGHTING SYMBOL LEGEND

	STRIP LIGHT FIXTURE
	2'x2' LIGHT FIXTURE, SHADING INDICATES EMERGENCY BACKUP
	DOWNLIGHT
	EMERGENCY FIXTURE
	WALL/CEILING MOUNTED EXIT SIGN, ARROWS INDICATE EGRESS PATH
PC	PHOTOCELL, 120V
$	SINGLE POLE SWITCH
$a	SWITCH - LOWER CASE INDICATES SWITCH GROUP
$IR	INFRARED OCCUPANCY SENSOR SWITCH
$D	DIMMER - FORWARD PHASE
$IRD	INFRARED OCCUPANCY SENSOR SWITCH, 0-10V DIMMING
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$DT2	DUAL TECHNOLOGY PIR/ULTRASONIC SENSOR SWITCH, DUAL RELAY
$LC	LIGHTING CONTROLS SWITCH LOCATION. RE:LIGHTING CONTROLS SCHEDULE FOR MORE INFORMATION.
PP	LIGHTING POWER PACK. RE: CONTROL NOTES FOR MORE INFORMATION
OS	IR/DT OCCUPANCY SENSOR. REFER TO CONTROL SCHEDULE FOR MORE INFORMATION.
924	UL924 EMERGENCY RELAY

IT SYMBOL LEGEND

	DATA OUTLET
	SINGLE HDMI PASS THROUGH WALL PLATE
AC	ACCESS CONTROL
SC	SECURITY CAMERA, WALL MOUNTED
SC	SECURITY CAMERA, CEILING MOUNTED
TV	LEGRAND TV2MW RECESSED TV BOX WITH DUPLEX AND DATA
AP	WIRELESS ACCESS POINT

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OKLAHOMA

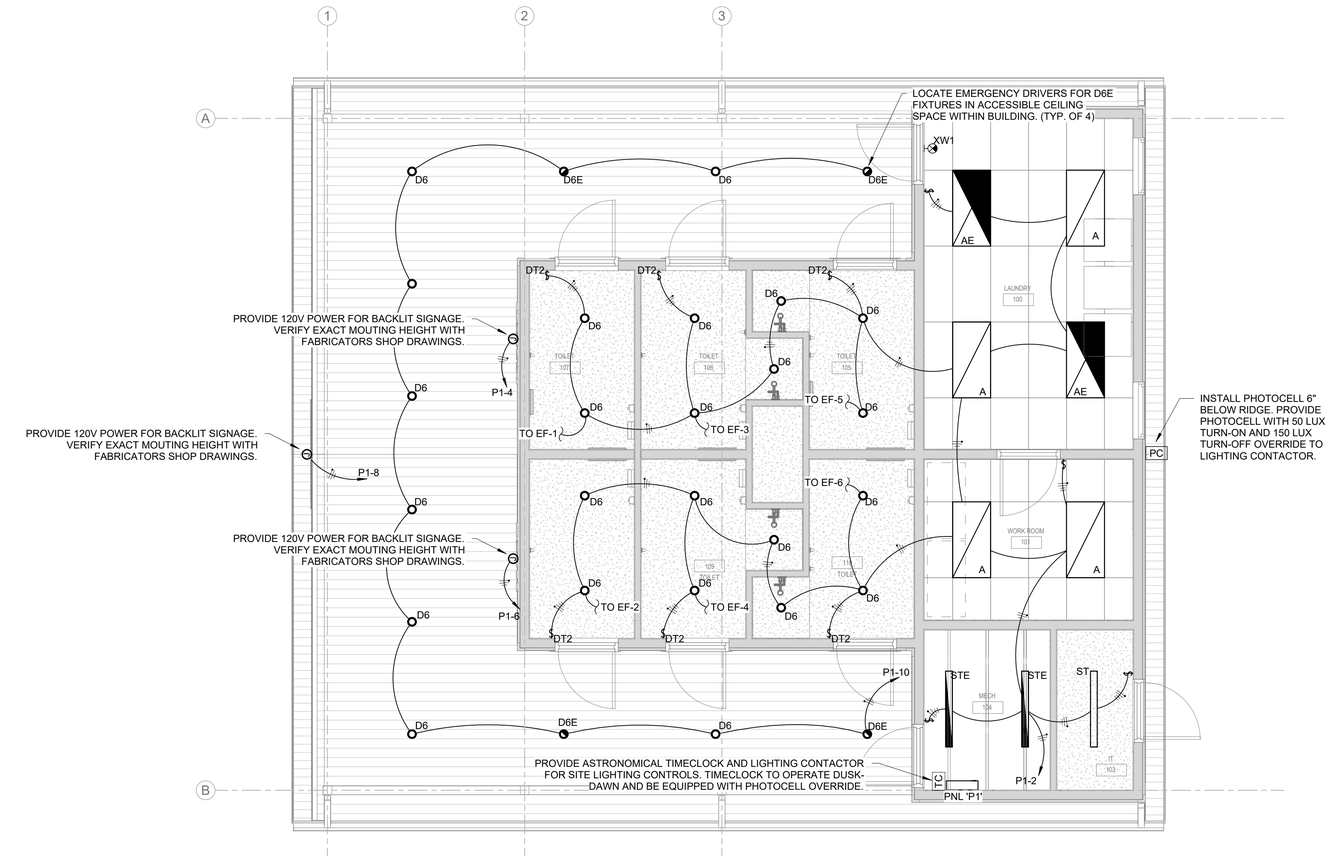
DATE
06.17.2025

SHEET
ELECT NOTES, SYMBOLS, & ABBREV.

E0.1

LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTAGE	LIGHT SOURCE	MOUNTING	FINISH	DESCRIPTION
A	LITHONIA	CPX 2X4 4000LM 80CRI 40K SWL MIN10 MVOLT	120V	36 W	LED, 4000K	CEILING, RECESSED	WHITE	2X4 RECESSED
AE	LITHONIA	CPX 2X4 4000LM 80CRI 40K SWL MIN10 MVOLT E10W	120V	36 W	LED, 4000K	CEILING, RECESSED	WHITE	2X4 RECESSED, BATTERY BACKUP
D6	LITHONIA	LDN6 40/15 L06 AR LSS TRW MVOLT GZ10	120V	18 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	4" LED DOWNLIGHT, WET RATED
D6E	LITHONIA	LDN6 40/15 L06 AR LSS TRW MVOLT GZ10 EL(IOTA ILB CP10)	120V	18 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	4" LED DOWNLIGHT, WET RATED, BATTERY BACKUP, INSTALL REMOTE BATTERY ABOVE ACCESSIBLE CEILING SPACE
ST	LITHONIA	CSS L48 4000LM MVOLT 40K 80CRI	120V	35 W	LED, 4000K	CEILING, SURFACE	WHITE	4' LENSED STRIP, 4000L
STE	LITHONIA	CSS L48 4000LM MVOLT 40K 80CRI IE7WCP	120V	35 W	LED, 4000K	CEILING, SURFACE	WHITE	4' LENSED STRIP, 4000L, BATTERY BACKUP
XW1	LITHONIA	LQM S W 3 R 120/277 EL N M6	120V	1 W	LED, RED	WALL, SURFACE +96"	WHITE	LED RED EXIT SIGN, BATTERY BACKUP



1 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"
0 2' 4' 8'
NORTH

mgm design group
greenacorn
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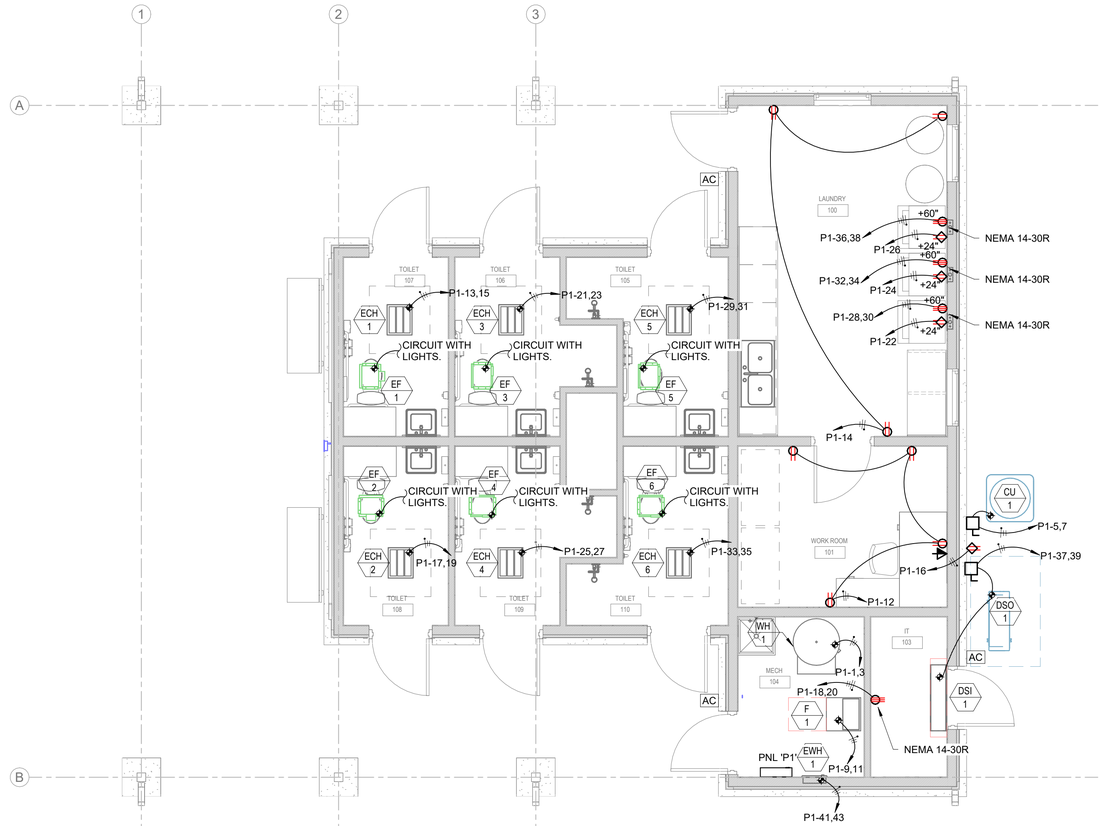
06.17.2025

SHEET
ELECTRICAL LIGHTING PLAN

E1.1



1 ELECTRICAL POWER PLAN
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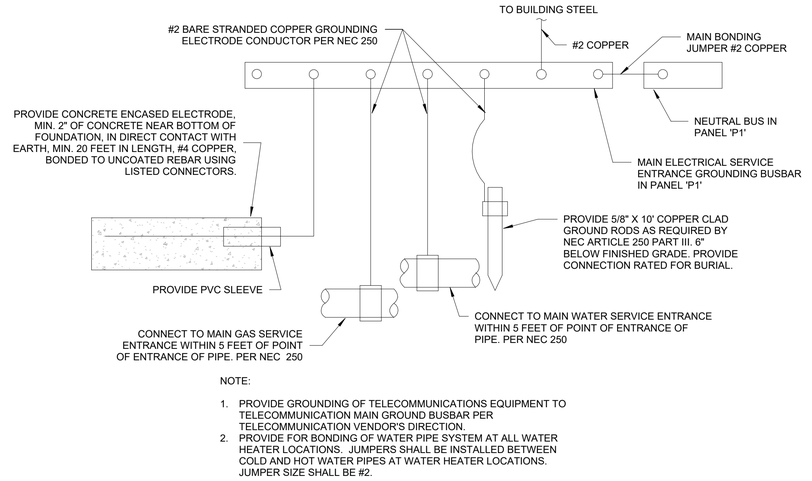
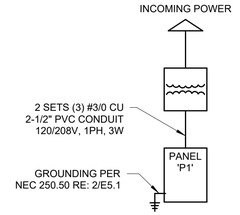
SHEET
ELECTRICAL POWER PLAN
E2.1



NOTE:

1. PROVIDE GROUNDING OF TELECOMMUNICATIONS EQUIPMENT TO TELECOMMUNICATION MAIN GROUND BUSBAR PER TELECOMMUNICATION VENDOR'S DIRECTION.
2. PROVIDE FOR BONDING OF WATER PIPE SYSTEM AT ALL WATER HEATER LOCATIONS. JUMPERS SHALL BE INSTALLED BETWEEN COLD AND HOT WATER PIPES AT WATER HEATER LOCATIONS. JUMPER SIZE SHALL BE #2.

2 GROUNDING DETAIL
N.T.S.



1 ELECTRICAL ONE LINE DIAGRAM
N.T.S.

PANELBOARD: P1

LOCATION: MECH 104
SUPPLY FROM: ELECTRICAL TRANSFORMER
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE/PHASE: 120/240V, 1PH, 3W
A.I.C. RATING: FULLY RATED, 22kAIC (CONTRACTOR TO VERIFY)
MAINS TYPE: MCB
MAINS RATING: 400 A

CKT	CIRCUIT DESCRIPTION	WIRE SIZE (H,N,G) OR (H,G)	NOTES	TRIP	#	A (kVA)		B (kVA)		#	TRIP	NOTES	WIRE SIZE (H,N,G) OR (H,G)	CIRCUIT DESCRIPTION	CKT
1	WH-1	2-#3, 1-#8		100 A	2	9.00	1.20			1	20 A		1-#12, 1-#12, 1-#12	INTERIOR LIGHTING	2
3								9.00	0.20	1	20 A	7,8	1-#12, 1-#12, 1-#12	SIGNAGE	4
5	CU-1	2-#6, 1-#10		45 A	2	3.24	0.20			1	20 A	7,8	1-#12, 1-#12, 1-#12	SIGNAGE	6
7								3.24	0.20	1	20 A	7,8	1-#12, 1-#12, 1-#12	SIGNAGE	8
9	F-1	2-#8, 1-#10		40 A	2	4.32	0.21			1	20 A	7,8	1-#12, 1-#12, 1-#12	EXTERIOR LIGHTING	10
11								4.32	0.72	1	20 A		1-#12, 1-#12, 1-#12	WORK ROOM RCPT	12
13	ECH-1	2-#10, 1-#10		25 A	2	2.04	0.54			1	20 A		1-#12, 1-#12, 1-#12	LAUNDRY CONV. RCPT	14
15								2.04	0.18	1	20 A		1-#12, 1-#12, 1-#12	MECH SERVICE RCPT	16
17	ECH-2	2-#10, 1-#10		25 A	2	2.04	1.20								18
19								2.04	1.20	2	30 A		2-#10, 1-#10, 1-#10	IT RECEPT	20
21	ECH-3	2-#10, 1-#10		25 A	2	2.04	1.20			1	20 A		1-#12, 1-#12, 1-#12	WASHER	22
23								2.04	1.20	1	20 A		1-#12, 1-#12, 1-#12	WASHER	24
25	ECH-2	2-#10, 1-#10		25 A	2	2.04	1.20			1	20 A		1-#12, 1-#12, 1-#12	WASHER	26
27								2.04	2.88						28
29	ECH-5	2-#10, 1-#10		25 A	2	2.04	2.88			2	30 A	4	2-#10, 1-#10, 1-#10	DRYER	30
31								2.04	2.88						32
33	ECH-6	2-#10, 1-#10		25 A	2	2.04	2.88			2	30 A	4	2-#10, 1-#10, 1-#10	DRYER	34
35								2.04	2.88						36
37	DSO/DSI-1	2-#10, 1-#10		30 A	2	2.28	2.88			2	30 A	4	2-#10, 1-#10, 1-#10	DRYER	38
39								2.28	0.00	1	20 A	--	--	SPARE	40
41	EWH-1	2-#12, 1-#12		20 A	2	1.56	0.00			1	20 A	--	--	SPARE	42
43								1.56	0.00	1	20 A	--	--	SPARE	44
45	SPARE	--	--	20 A	1	0.00	0.00			1	20 A	--	--	SPARE	46
47	SPARE	--	--	20 A	1			0.00	0.00	1	20 A	--	--	SPARE	48
				Total Load:		47.04 kVA		44.98 kVA							

BREAKER NOTES	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
1) SHUNT TRIP	HVAC	37910 VA	100.00%	37910 VA		
2) LOCK-OUT DEVICE	Lighting	1414 VA	125.00%	1767 VA	**TOTAL CONN. LOAD (kVA):**	92.02 kVA
3) GFEP	Motor	4575 VA	125.00%	5719 VA	**TOTAL EST. DEMAND (kVA):**	91.63 kVA
4) GFCI	Receptacle	1440 VA	100.00%	1440 VA	**TOTAL EST. DEMAND (A):**	382 A
5) AFCI (DED. NEUTRAL REQ'D)	Misc Equip	41280 VA	100.00%	41280 VA		
6) EXISTING CIRCUIT TO REMAIN	Electric Heat	5400 VA	65.00%	3510 VA		
7) THROUGH TIMECLOCK/PHOTOCELL						
8) THROUGH LIGHTING CONTACTOR						

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LICENSED PROFESSIONAL ENGINEER
PATRICK TEAGUE
28837
OKLAHOMA

DATE
06.17.2025

SHEET
ELECTRICAL DETAILS

E5.1