RENOVATIONS TO

FILMORE THOMAS PARK

OWNER: **MBC PARKS AND RECREATION**
150 WILLIE SMOKIE GLOVER DRIVE,
MACON, GA 31201

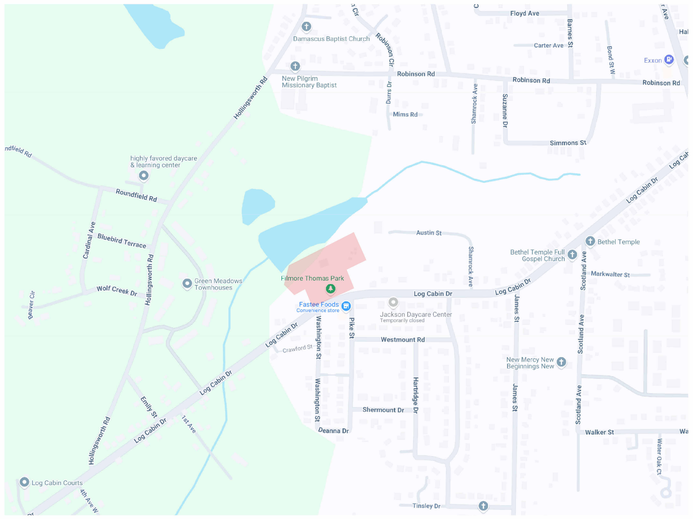
FACILITY: **FILMORE THOMAS PARK**
3793 LOG CABIN DR,
MACON, GA 31204

30 OCTOBER 2024 - ISSUED FOR PERMIT

SITE PLAN



VICINITY PLAN



BUILDING CODE CLASSIFICATION

BUILDING INFORMATION :

PROJECT NAME: FILMORE THOMAS PARK
ADDRESS: 3793 LOG CABIN DR, MACON, GA 31204
OWNER: MBC PARKS AND RECREATION

I. OCCUPANCY TYPE:
- UTILITY AND MISCELLANEOUS, GROUP U SECTION 312)

II. BUILDING CONSTRUCTION TYPE:
- TYPE IIIB (IBC 602.3)

III. CONSTRUCTION AREA:
- 1 STORY
-680 GSF TOTAL

Code Classification
3/8" = 1'-0"

LIFE SAFETY INFORMATION

I. APPLICABLE CODES:
- NFPA 101 - LIFE SAFETY CODE (2018)
- RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE SAFETY; CH. 120-3-20 MODIFICATIONS (2020)
- GEORGIA ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES; (GAC) - CH. 120-3-20
- INTERNATIONAL FIRE CODE (IFC) (2018), NO GEORGIA AMENDMENTS.
- INTERNATIONAL BUILDING CODE (IBC) (2018), with GEORGIA AMENDMENTS 2020, 2022.
- INTERNATIONAL MECHANICAL CODE (IBC) (2018), with GEORGIA AMENDMENTS 2020.
- NATIONAL ELECTRICAL CODE, (NEC) (2020), with GEORGIA AMENDMENTS 2021.
- INTERNATIONAL ENERGY CONSERVATION CODE, (IECC) (2015), with GEORGIA SUPPLEMENTS AND AMENDMENTS 2022

Applicable Codes
3/8" = 1'-0"

LIST OF DRAWINGS

Sheet Number	Sheet Name
General	
G101	COVERSHEET
G102	GENERAL REQUIREMENTS
Civil	
C001	
C101	EXISTING CONDITIONS AND DEMOLITION PLAN
C201	SITE LAYOUT
C301	GRADING AND DRAINAGE PLAN
C401	UTILITIES PLAN
C501	ESPC PHASE 1
C504	ESPC DETAILS
C601	ESPC DETAILS
C602	ADS DETAILS
Structural	
S101	GENERAL NOTES AND DETAILS
S102	FOUNDATION AND FRAMING PLAN
S103	BUILDING ELEVATIONS
S104	TRUSS DIRAGRAMS
S200	PUMP HOUSE FOUNDATION PLAN AND SECTIONS
S201	PUMP HOUSE ROOF FRAMING PLAN AND SECTIONS
Architecture	
AS101	SITE PLAN
Architecture	
A101	PUMP HOUSE PLANS AND DOOR DETAILS
A102	PUMP HOUSE - ELEVATIONS AND SECTIONS
A103	PAVILION PLAN ELEVATIONS AND SECTIONS
A104	PAVILLION DETAILS
A105	DOOR SCHEDULE, DETAILS & OPENING FLASHING DETAILS
A701	FINISH PLAN, LEGEND, SCHEDULE, AND INTERIOR ELEVATIONS
Mechanical	
M100	MECHANICAL SPECS., SCHEDULES AND PLANS
Plumbing	
P101	PLUMBING PLANS
Electrical	
E101	ELECTRICAL LEGEND, SCHEDULES AND DETAILS
E201	FLOOR PLAN - ELECTRICAL

CONTACT INFORMATION

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TOTAL ENGINEERS
169 NEW STREET, MACON, GA 31201
478-741-4632
CONTACT: KRUNAL PATEL

PLUMBING
TOTAL ENGINEERS
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CONTACT: KRUNAL PATEL

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ELECTRICAL DESIGN CONSULTANTS
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MACON, GA 31201
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WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON, GEORGIA 31201

Seal:

STATE OF GEORGIA
10/30/24
BRANDON A. FAIRBANKS
CERTIFICATE NO. 035000
REGISTERED ARCHITECT

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RENOVATION

3793 LOG CABIN DR, MACON, GA 31204-3753

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Project Status:

Revision No (if any): Revision Date:

Project No: 2024-081 Current Date:

Drawing Name: **COVERSHEET**

Drawing No: **G101**

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ABBREVIATIONS

ABBREV	TERM
A	
&, +	AND
@	AT
A/C	AIR CONDITIONING
A/V	AUDIO/VISUAL
AB	ANCHOR BOLT
ACC	ACCESSIBLE
ACOUST	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATTN	ATTENTION
AUTO	AUTOMATIC
B	
BCAB	BASE CABINET
BD	BOARD
BG	BUMPER GUARD
BIT	BITUMINOUS
BL	BED LOCATOR; BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMNT	BASEMENT
BUR	BUILT-UP ROOFING
C	
C	CHANNEL
C.C	CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED
CAB	CABINET
CAT	CATEGORY
CATV	CABLE TELEVISION
CB	CATCH BASIN, CEMENT BOARD
CBU	CEMENTITIOUS BACKER UNIT
CC	CENTER-TO-CENTER
CCTV	CLOSED-CIRCUIT TELEVISION
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CH	CHILLER
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	CENTER, COUNTER
CO	CASED OPENING; CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CR	CRASH RAIL
CSS	CLINICAL SERVICE SINK
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK
CW	COLD WATER; CURTAIN WALL
D	
D	DEEP, DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH; DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIMS	DIMENSIONS
DISP	DISPENSER
DIV	DIVISION
DMPF	DAMP PROOFING
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWMS	DRYWALL METAL STUD (DIV 9)

ABBREV	TERM
DWR	DRAWER
E	
E	EAST
EA	EACH
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)
EQ	EQUAL
EQUIP	EQUIPMENT
EVS	ENVIRONMENTAL SERVICES
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FA	FIRE ALARM
FB	FACE BRICK
FD	FLOOR DRAIN; FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURES AND EQUIPMENT
FFB	FLUSH FLOOR BOX
FFE	FINISH FLOOR ELEVATION
FH	FLAT HEAD, FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FO	FACE OF
FP	FIRE PROTECTION
FPG	FIREPROOFING
FR	FIRE RESISTANT
FRC	FIBER REINFORCED CONCRETE
FRP	FIBER REINFORCED PANEL
FRT	FIRE RETARDANT TREATED
FT	FEET; FOOT
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FWC	FABRIC WALL COVERING
FWP	FABRIC WRAPPED PANEL
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GB, GWB	GYPSUM (WALL) BOARD
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLAZ	GLAZING
GRAN	GRANULAR
GRD	GROUND
GRFG	GLASS FIBER REINFORCED GYPSUM
GSM	GALVANIZED SHEET METAL
GV	GAS VALVE
GYP	GYPSUM
H	
H, HT	HIGH; HEIGHT
HB	HOSE BIB
HC	ACCESSIBLE
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HRC	HOSE REEL CABINET
HSKNG	HOUSEKEEPING
HSS	HOLLOW STRUCTURAL SECTION
HTG	HEATING
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER; HAND WASH
I	
ID	INSIDE DIAMETER
IN	INCH; INCHES
INCAND	INCANDESCENT
INCL	INCLUDED; INCLUDING
INFO	INFORMATION
INSUL	INSULATED; INSULATION
INT	INTERIOR
INV	INVERT
J	
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
K	
K	KIP (1000 POUNDS)
KD	KNOCK DOWN

ABBREV	TERM
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
KSF	KIPS PER SQUARE FOOT
L	
LAM	LAMINATE
LAV	LAVATORY
LB	POUNDS
LGMS	LIGHT GAUGE METAL STUD (DIV 5)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LVT	LUXURY VINYL TILE
M	
MAS	MASONRY
MAX	MAXIMUM
MB	MODIFIED BITUMEN (ROOFING)
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOT (FIRE) RATED
NTS	NOT TO SCALE
O	
O,C	OWNER-FURNISHED, CONTRACTOR-INSTALLED
O,O	OWNER-FURNISHED, OWNER-INSTALLED
O/C	ON CENTER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER; OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD, OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
P	
P	PAINT
PAV	PAVING
PB	PARTICLE BOARD
PC	PRECAST
PDF	POWER DRIVEN FASTENER
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT; PAINTED
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PT	POINT; PRESSURE-TREATED
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RADIUS; RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE, REFRIGERATOR
REG	REGISTER
REINF	REINFORCED; REINFORCING
REL	RELOCATE
REM	REMOVABLE
REQ	REQUIRE; REQUIRED
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION; REVISED
RM	ROOM
RO	ROUGH OPENING

ABBREV	TERM
RTD	RATED
RTG	RATING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SA	SUPPLY AIR
SAF	SELF-ADHERED FLASHING
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET; SQUARE FOOT
SH	SPRINKLER HEAD
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL; SURFACE-MOUNTED
SP	STANDPIPE
SPEC	SPECIFICATION; SPECIFIED
SPK	SPRINKLER OR SPEAKER
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STL	STEEL
STOR	STORAGE
STRG	STRINGER
STRUCT	STRUCTURE; STRUCTURAL
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T	
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TCAB	TALL CABINET
TEL	TELEPHONE; TELECOM
TELE	TELEPHONE
TEMP	TEMPERATURE; TEMPORARY
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TKBD	TACK BOARD
TLT	TOILET
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
U	
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
URNL	URINAL
V	
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VISION PANEL
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
W	
W	WIDE; WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCAB	WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WATERPROOF; WATERPROOFING
WPM	WATERPROOF MEMBRANE
WS	WEATHER-STRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

WALL TYPES

- **C** CMU (MAY HAVE FURRING)
- **G** GYPSUM BOARD WITH METAL STUDS
- **S** SHAFTWALL
- **W** GYPSUM BOARD WITH WOOD STUDS

G 3 A 0
- WALL TYPE
- STUD/CMU WIDTH
- WALL TYPE MODIFIER
- FIRE RATING OR PARTITION HEIGHT

SYMBOL DESIGNATION

FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.

XAXB — WITH SOUND ATTENUATION

XAXX — NO SOUND ATTENUATION

WALL HATCH PATTERN LEGEND

- NON-RATED METAL STUD PARTITION
- NON RATED MASONRY
- NON-RATED WOOD STUD PARTITION

STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x flat
2		2 1/2"	
3		3 5/8"	2x3
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

WALL TYPE MODIFIER

- A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
- D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
- E. 5/8" GYP BD - EXPOSED SIDE ONLY.
- F. NO SHEATHING ON CMU.
- G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
- H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

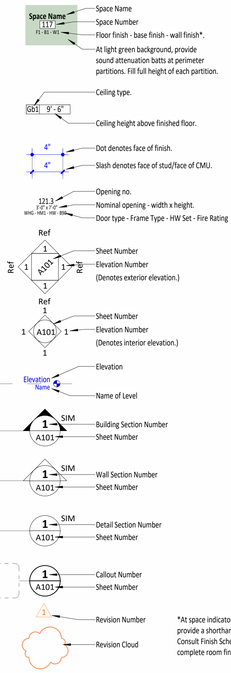
FIRE RATING OR PARTITION HEIGHT

- **0** NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
- **F** NON-RATED; FULL HEIGHT TO STRUCTURE.
- **S** NON-RATED SMOKE PARTITION
- **B** 1 HOUR RATED FIRE/SMOKE BARRIER
- **C** 2 HOUR RATED FIRE/SMOKE BARRIER
- **1** 1 HOUR RATED FIRE PARTITION
- **2** 2 HOUR RATED FIRE BARRIER
- **H** EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
- **X** SEE BLDG SECTION/ELEVATION FOR HEIGHT.

Partition Type Legend
1 1/2" = 1'-0"

A. Demolition Plan(s) are not all inclusive. Additional demolition may be required to allow installation of new work. See Civil, Mechanical, Plumbing, and Electrical Drawings for additional demolition requirements. In areas or rooms where architectural demolition is not indicated and mech/elec/ plumbing work is required, remove existing construction as needed to allow installation of the mech/elec/plumbing work required. Restore area to original condition upon completion of mech/elec/plumbing work.
B. During time of demolition, protect all existing construction to remain. Repair any damage promptly and restore the construction to original condition.
C. Wherever new finish is indicated, demolish existing finish prior to installation of new finish. When new paint or other coating is indicated, it is permissible to leave existing coating in place provided that the required surface preparation is performed.
D. Verify all existing conditions prior to commencing demolition operations. Notify the Architect of any discrepancies before proceeding.
E. As demolition work proceeds, notify Architect of any newly-exposed structural components that appear to need repair or replacement. Allow Architect and/or Structural Engineer to examine components prior to proceeding with demolition. Repair/replace structural items as directed by Architect prior to resuming demolition work.
F. Execute demolition work in a careful and orderly manner. Minimize production of noise, dust, and other disturbance to the Owner.
G. Maintain all existing smoke and fire protection systems at all times during demolition.
H. Keep all existing access/egress paths free and clear of debris at all times.
I. **Owner is responsible for removing any furniture prior to commencement of construction UNO.**
J. **Remove all landscaping as necessary for construction. Verify with Architect and/or Owner whether relocation of plants is required. Remove planting to be relocated carefully; maintain root system to extent possible.**

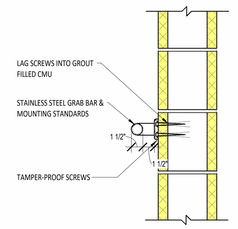
General Notes - Demolition
3/8" = 1'-0"



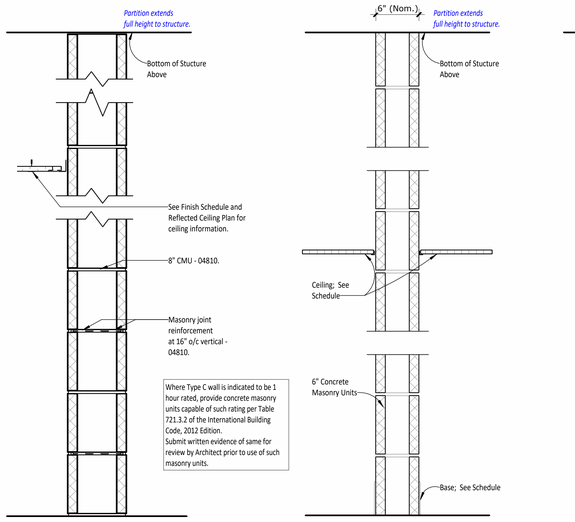
*At space indicator, finishes provide a shorthand view. Consult Finish Schedule for complete room finish requirements.

Symbol Legend
1 1/2" = 1'-0"

1 | Partition Backing Support
G102 | 1 1/2" = 1'-0"

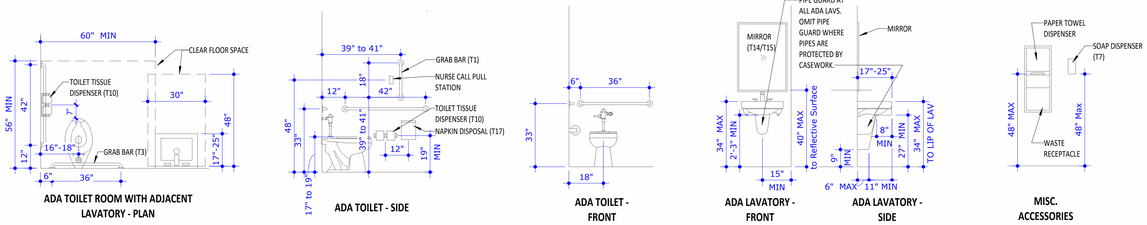


2 | Grab Bars on CMU
G102 | 3"=1'-0"



4 | CMU PARTITIONS
G102 | 1 1/2" = 1'-0"

FIXTURE AND ACCESSORY MOUNTING NOTES:
1. Install accessories at mounting heights indicated UNO.
2. Provide partition blocking for wall-mounted items, such as grab bars. (See Partition Blocking detail.)
3. Provide indicated clear floor space for all fixtures and accessories.
4. Where accessories are indicated to be installed on or within toilet partitions, coordinate required fastening reinforcments, cutouts, and other required accommodations with the fabrication and installation of the toilet partition system.
5. Provide/install flush valve controls that are accessible from interior of room UNO.



ADA Accessible Fixtures
3/8" = 1'-0"

WM2A ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON, GEORGIA 31201

Seal:

STATE OF GEORGIA
10/24/24
BRANDON A. FAIRBANKS
REGISTERED NO. 035888
REGISTERED ARCHITECT

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RENOVATION

3793 LOG CABIN DR, MACON, GA 31204-3753

These drawings convey certain contractual information through the use of color. Do NOT use drawings printed in black-and-white or greyscale.

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Project Status:

Revision No (if any): Revision Date:

Project No: Current Date:
2024-081

Drawing Name:
GENERAL REQUIREMENTS

Drawing No:
G102

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PERMITS & STANDARDS

1. ALL NECESSARY FEDERAL, STATE AND LOCAL PERMITS REQUIRED TO PERFORM THE WORK SHOWN AND NOTED HEREON SHALL BE OBTAINED FROM THE ISSUING AUTHORITY, PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

2. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS, STANDARDS & SPECIFICATIONS OF THE CITY OF MACON, GEORGIA , REGARDLESS OF THE ABSENCE OF "REVIEW/INSPECTION COMMENTS".

3. THE CONTRACTOR IS REQUIRED TO NOTIFY THE LOCAL INSPECTOR 24 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

4. THE PROJECT SITE IS SUBJECT TO ALL RIGHT-OF-WAYS & EASEMENTS SHOWN AND/OR RECORDED, AND MAY BE SUBJECT TO ADDITIONAL RIGHT-OF-WAYS/EASEMENTS NOT SHOWN OR RECORDED HEREON.

5. THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO ANY CONSTRUCTION ACTIVITY, TO IDENTIFY ANY DISCREPANCIES BETWEEN THE APPROVED CONSTRUCTION DOCUMENTS AND EXISTING SITE CONDITIONS. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY IN WRITING TO THE OWNER AND TRAVERSE LAND SERVICES PRIOR TO WORK COMMENCEMENT.

6. THE LIMITS OF CONSTRUCTION HAVE BEEN DELINEATED ON THE SITE PLAN. REFER TO SPECIFICATIONS FOR PERIMETER FENCING. THE CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THESE LIMITS. ANY REPAIR OR RECONSTRUCTION OF DAMAGE TO ADJACENT PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS INCURRED FOR SAID REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

7. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION DOCUMENTS. ALL DIMENSIONS SHOWN ARE PERPENDICULAR/RADIAL AND ARE MEASURED FACE TO FACE OF CURB & BUILDINGS OR FROM THE EDGE OF PAVEMENT IN THE ABSENCE OF CURBING.

8. ALL GRADED AREAS SHALL PROVIDE POSITIVE DRAINAGE IN THE DIRECTION INDICATED ON THE CONSTRUCTION DOCUMENTS SO AS TO PROVIDE A SMOOTH TRANSITION BETWEEN SURFACES WITH NO SHARP BREAKS IN GRADE AND NO STEEP OR REVERSE CROSS SLOPES. MINOR FIELD ADJUSTMENTS TO PROPOSED GRADES MAY BE NECESSARY TO CONSTRUCT THE DESIGN INTENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE.

9. CONTRACTOR SHALL VERIFY INVERTS & SPOT ELEVATIONS OF ALL TIE-INS TO EXISTING INFRASTRUCTURE & PAVEMENT PRIOR TO INSTALLATION.

10. ALL PAVEMENT TO BE REMOVED SHALL BE SAW CUT.

11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE PRIOR TO ORDERING PROJECT MATERIALS, THE MOST CURRENT SET OF "APPROVED" CONSTRUCTION DOCUMENTS FROM TRAVERSE LAND SERVICES INCLUDING BUT NOT LIMITED TO, PERMITTED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. TRAVERSE LAND SERVICES SHALL ACCEPT NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.

12. DO NOT SCALE FROM THESE DRAWINGS." DIFFERENTIAL STRETCHING" OCCURS DURING THE REPRODUCTION PROCESS.

13. AN AS-BUILT SITE SURVEY AND REVISED HYDROLOGY/HYDRAULIC ANALYSIS SHALL BE SUBMITTED TO THE LOCAL CITY OR COUNTY GOVERNMENTAL AGENCY PRIOR TO FINAL APPROVAL AND ISSUANCE OF "CERTIFICATE OF OCCUPANCY" FOR THIS PROJECT.

UTILITIES

1. ALL WATER & SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MACON WATER AUTHORITY UTILITY DEPARTMENT WATER & SEWER STANDARDS, LATEST ADDITION.

2. ALL UTILITY WORK MEETING THE DEFINITION OF "UTILITY CONTRACTING" AS DESCRIBED IN THE OFFICIAL CODE OF THE STATE OF GEORGIA, SECTION 43-14-2 SHALL ADHERE TO THE PRESCRIBED SECTIONS REGARDING "UTILITY CONTRACTOR" LICENSING REQUIREMENTS.

3. ALL UTILITIES, STORM DRAIN & SERVICE LINES SHALL BE MARKED WITH LOCATOR WIRE.

4. CAUTION! UNDERGROUND UTILITY SERVICE ALERT! THE CONTRACTOR SHALL CALL THE TOLL FREE NUMBER-1.800.282.7411, A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN AND NOTED ON THE APPROVED PLANS.

5. INFRASTRUCTURE AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM GROUND LOCATION OF IDENTIFIABLE STRUCTURES AND "SURFACE DELINIATIONS" OF UNDERGROUND INFRASTRUCTURE (UPC) AVAILABLE AT THE TIME OF THE DESIGN SURVEY. ADDITIONAL SURFACE & SUB-SURFACE INFRASTRUCTURE MAY EXIST. TRAVERSE LAND SERVICES ACCEPTS NO RESPONSIBILITY FOR THE COMPLETENESS OF THIS INFORMATION.

6. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ANY SAID UTILITIES PRIOR TO WORK COMMENCEMENT AND TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY TRAVERSE LAND SERVICES IMMEDIATELY IF ANY EXISTING UTILITY LOCATIONS WILL EFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT AS SHOWN HEREON.

7. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY ENTITY WITH ANY REQUIRED RELOCATION OF EXISTING UTILITIES, PRIOR TO THE START OF ANY CONSTRUCTION.

8. THE CONTRACTOR SHALL REMOVE SAID UTILITIES ONLY, AFTER APPROVAL FROM ALL INTERESTED PARTIES. THE CONTRACTOR SHALL COORDINATE ABANDONMENT AND/OR RELOCATION WITH THE APPROPRIATE UTILITY COMPANY OR ENTITY. ANY DISPOSAL OF SAID FACILITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL UTILITY AND OR GOVERNMENTAL REGULATIONS. ANY COSTS INCURRED IN THE REMOVAL/ABANDONMENT OF SAID INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.

CLEARING & GRADING

1. THE CONTRACTOR SHALL EXORCISE EXTREME CAUTION IN PROTECTING EXISTING TREES/VEGETATION AND COORDINATE ALL TREE REMOVAL WITH THE OWNER PRIOR TO THE START OF ANY CONSTRUCTION.

2. THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL EXCAVATED FROM THE SITE AND DISPOSED OF PROPERLY OFF-SITE.

3. STRUCTURAL FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D2487. ON-SITE SOILS FROM CUT AREAS MAY BE SUITABLE FOR FILL MATERIAL.
4. THE CONTRACTOR SHALL STOCKPILE AND LATER SPREAD A MINIMUM OF 6 INCHES OF TOPSOIL IN AREAS TO BE LANDSCAPED, SODDED OR SEEDED.
5. AT THE END OF EACH DAY, THE CONTRACTOR SHALL HAVE THE SITE GRADED IN SUCH A WAY SO AS NOT TO CAUSE ADVERSE IMPACT FROM RUN-OFF OR SILTATION TO ANY ADJACENT PROPERTIES. SILT BARRIERS SHALL BE MAINTAINED AND REPAIRED IF REQUIRED AT THE END OF EACH WORKING DAY .

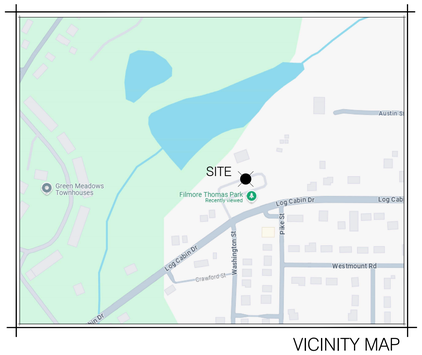
6. GROUND SURFACE PREPARATION:
   6.1. REMOVE VEGETATION INCLUDING GRASS, ROOTS, AND SURFICIAL ORGANICS, DEBRIS, UNSATISFACTORY SOILS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM THE GROUND SURFACE PRIOR TO THE PLACEMENT OF FILL MATERIAL. PLOW STRIP, BREAKUP SLOPED SURFACES STEEPER THAN 2:1 SO THAT FILL MATERIAL WILL BOND WITH THE EXISTING SOILS. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAT THAT SPECIFIED UNDER COMPACTION FOR PARTICULAR AREA CLASSIFICATION, BREAKUP GROUND SURFACE, PULVERIZE, MOISTURE CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY.
   6.2. PLACE BACKFILL AND FILL MATERIAL IN LAYERS NOT MORE THAN 6 INCHES IN LOOSE FILL LIFTS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 3 INCHES IN LOOSE FILL LIFTS COMPACTED BY HAND-OPERATED TAMPERS.
   6.3. BEFORE COMPACTION, MOISTEN AND AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAINS FROST OR ICE.
   6.4. UNLESS OTHERWISE INDICATED OR DIRECTED BY GEOTECHNICAL CONSULTANT, COMPACT ALL BUILDING PADS & PAVEMENT SUBGRADE MATERIAL TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTMD698 CURRENT ADDITION). OTHER GRADED AREAS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY (+/- 2%) UNLESS OTHERWISE SPECIFIED.
   6.5. ALL GRADED AREAS SHALL BE PROOFROLLED WITH A 20 TON DUMP TRUCK. UNDERCUT ALL AREAS THAT PUMP AND REPLACE WITH SUITABLE FILL MATERIAL AS SPECIFIED.

7. MOISTURE CONTROL:
   7.1. WHERE SUBSURFACE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR SOIL LAYER. APPLY WATER IN MINIMUM QUANTITIES AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON THE SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
   7.2. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO ALLOW FOR REQUIRED SPECIFIED DENSITY.
   7.3. SPREAD SOIL MATERIAL THAT HAS BEEN REMOVED DUE TO EXCESSIVE MOISTURE CONTENT. ASSIST THE DRYING PROCESS BY DISKING, HARROWING, OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE.
   7.4. THE CONTRACTOR SHALL NOTIFY TRAVERSE LAND SERVICES & OWNER IMMEDIATELY UPON THE DISCOVERY OF ANY GROUNDWATER, SUB-SURFACE SEEPAGE, OR SPRINGS DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER FOR SITE INSPECTION, AND TO MAKE RECOMMENDATIONS REGARDING THE EVIDENCE AND REMEDIATION OF SUBSURFACE WATERS.

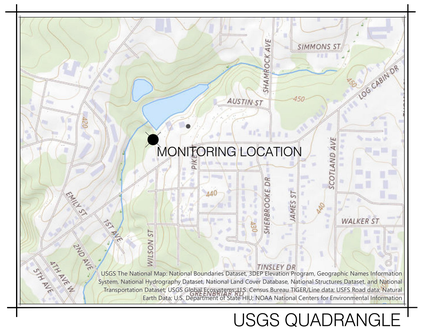
8. QUALITY CONTROL TESTING DURING CONSTRUCTION:
   8.1. ALLOW GEOTECHNICAL TESTING SERVICE TO INSPECT AND APPROVE EACH SUBGRADE, BACKFILL OR FILL LAYER BEFORE FURTHER FILL OR CONSTRUCTION WORK IS CONTINUED. TESTING SHALL BE PERFORMED EVERY 10,000 SF OF AREA PER ONE FOOT LIFT OR AS DIRECTED BY A REGISTERED GEOTECHNICAL ENGINEER.
   8.2. GEOTECHNICAL SPECIFICATIONS DESCRIBED HEREIN ARE GUIDELINES ONLY AND SHOULD BE VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. RECOMMENDATIONS FROM A REGISTERED GEOTECHNICAL ENGINEER SHALL SUPERSEDE THE ABOVE RECOMMENDATIONS.

MATERIALS

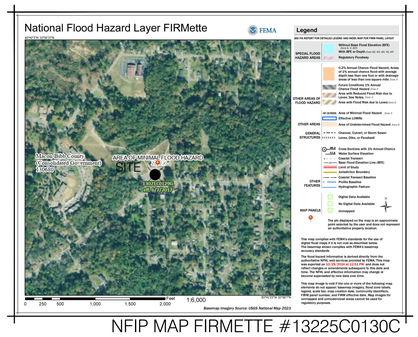
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2. WATER, SEWER & STORM PIPE MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS.
   2.1. WATER MAINS — DUCTILE IRON PIPE CLASS 350 (AWWA C 151); PVC C-900; SDR-21 WITH UTILITY AUTHORITY APPROVAL
   2.2. SERVICE LINES — PVC SCHEDULE 40; HDPE SDR 9 (ASTM D3035)
   2.3. IRRIGATION: — PURPLE PIPE (ASTM 2737)
   2.4. SANITARY SEWER: — DUCTILE IRON PIPE CLASS 350 (AWWA C 151); PVC SDR 35 (ASTM D-3034)
   2.5. STORM SYSTEM: — RCP CLASS III (ASTM C76); CORRUGATED HDPE INTEGRALLY FORMED SMOOTH INTERIOR (ASHTO M-294 TYPE 'S')



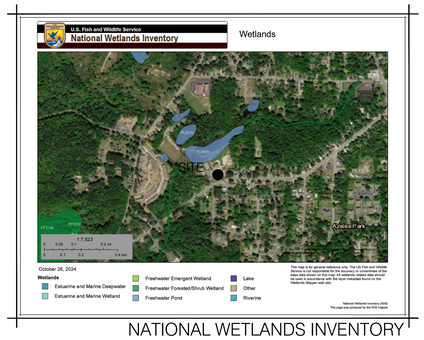
VICINITY MAP



USGS QUADRANGLE



NFIP MAP FIRMETTE #13225C0130C



NATIONAL WETLANDS INVENTORY

LEGEND

IPS	= PROPERTY CORNER SET (REBAR)
IPF	= PROPERTRY CORNER FOUND
CMF	= CONCRETE MONUMENT FOUND
CMS	= CONCRETE MONUMENT SET
	= SURVEY CONTROL POINT
"X"	= CHISELED "X"
LLL	= LAND LOT LINE
BSL	= BUILDING SETBACK LINE
SSE	= SANITARY SEWER EASEMENT
UE	= UTILITY EASEMENT
DE	= DRAINAGE EASEMENT
DUE	= DRAINAGE & UTILITY EASEMENT
LL	= LAND LOT
POB	= POINT OF BEGINNING

CONTACT INFORMATION

OWNER/PRIMARY PERMITEE: MACON-BIBB COUNTY
PO BOX 247
MACON, GEORGIA 31202

24-HR CONTACT: BRANDON FAIRBANKS
PHONE: 478-745-4945
EMAIL: BRANDONFAIRBANKS@WM2A.COM

DESIGN PROFESSIONAL: CASEY GRAHAM
TRAVERSE LAND SERVICES
253 CARL VINSON PARKWAY
WARNER ROBINS, GEORGIA 31088
PHONE: 478-922-7724
EMAIL: CASEY.GRAHAM@TRAVERSE-LS.COM

GENERAL SITE INFORMATION

1 LEGAL DESCRIPTION: N/A
LAND LOT 115 4th DISTRICT
MACON-BIBB GEORGIA

2 PHYSICAL ADDRESS: 3793 LOG CABIN DR

3 ZONING-USE: EXISTING: PDE
PROPOSED: PDE

4 SETBACK LINES: FRONT= N/A
SIDE= N/A
REAR= N/A

5 PROJECT AREA: SITE= 22.52 ACRES
DISTURBED= 0.13 ACRES

6 THIS PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD DISTRICT PER NFIP FIRM PANEL No. 13021C0129G EFECTIVE DATE 06.07.2017.

7 "STATE WATERS" DO LIE ON OR WITHIN 200' OF THE PROJECT SITE.

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MBC
MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK
RECREATION CENTER RENOVATION

3793 LOG CABIN DR., MACON, GA 31202

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Project Status: ISSUED FOR PERMIT — Revision Date:
Revision No (if any): — Revision Date:

Project No: 2024-081 — Current Date: 10/30/24

Drawing Name:

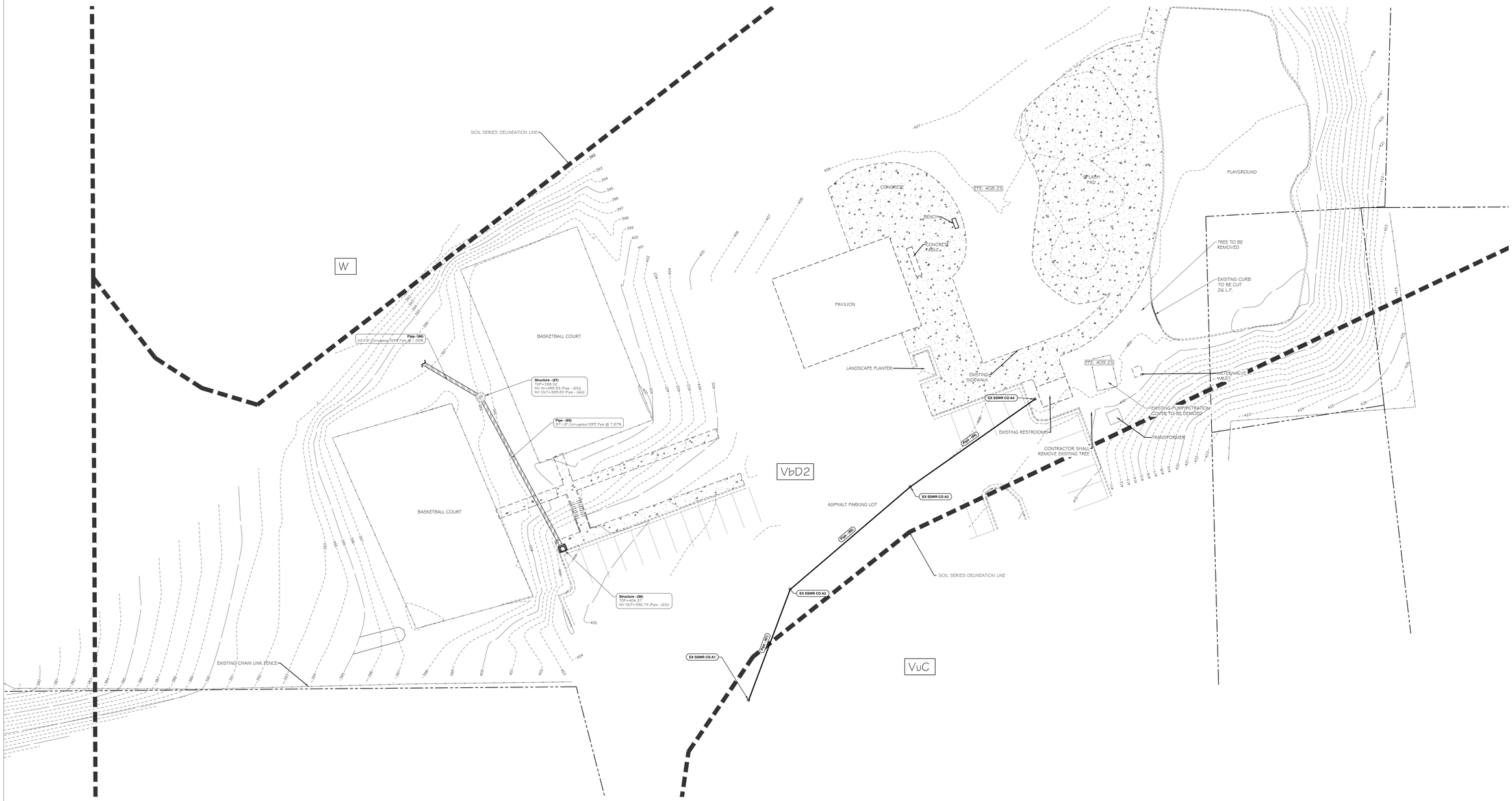
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SOIL LEGEND:

VbD2 - Vance sandy loam, 10 to 17 percent slopes, eroded

VuC - Vaucluse-Urban Land complex, 2 to 8 percent slopes



UTILITY NOTES

1. AT THE TIME OF THESE DRAWINGS, THE LOCATION AND SIZE OF THE EXISTING WATER LINE IS UNKNOWN.
2. THE MUNICIPALITY THAT OWNS THE WATER LINE HAS NO RECORD OF THE EXISTING WATER LINE.
3. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION OF THE EXISTING WATER LINE BEFORE CONSTRUCTION.
4. CONTRACTOR SHALL CALL 811 FOR LOCATION OF EXISTING WATER LINE.
5. ONCE THE EXISTING WATER LINE HAS BEEN SIZED AND LOCATED THE CONTRACTOR SHALL TIE THE EXISTING WATER LINE INTO THE PROPOSED BATHROOMS.
6. THE EXISTING SANITARY SEWER CLEANOUTS SHOWN HAVE BEEN FIELD VERIFIED DURING THE SURVEY.
7. DUE TO THE CLEANOUTS BEING PAVED OVER INVERTS AND THE SIZE OF THE EXISTING SSWR LINE HAS NOT BEEN VERIFIED.
8. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION OF THE EXISTING SANITARY SEWER LINE BEFORE CONSTRUCTION.
9. CONTRACTOR SHALL INFORM THE OWNER, ENGINEER, AND THE GENERAL CONTRACTOR OF THE RESULTS OF THE INVESTIGATION BEFORE MOVING FORWARD WITH CONSTRUCTION.
10. PLANS AS SHOWN ARE SUBJECT TO CHANGE BASED ON THE RESULTS OF THE FIELD INVESTIGATION.

20 0 20 40 60

GRAPHIC SCALE IN FEET
SCALE: 1"=20'

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MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RECREATION CENTER RENOVATION

3793 LOG CABIN DR., MACON, GA 31202

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2024-081	10/30/24

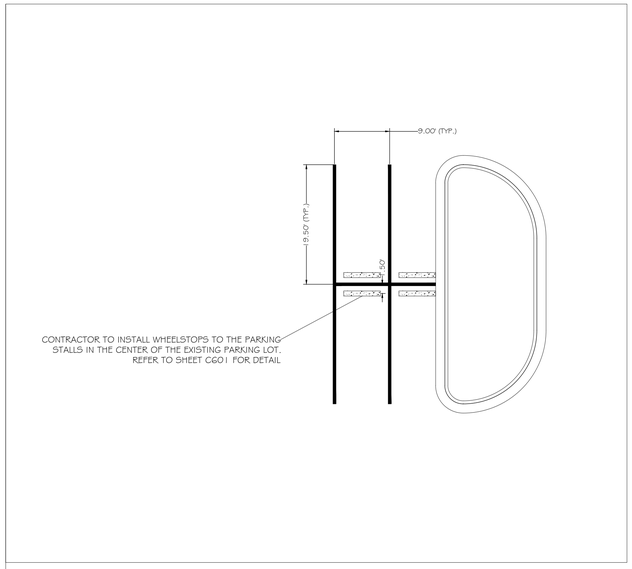
Drawing Name:

EXISTING CONDITIONS & DEMOLITION PLAN

Drawing No:

C101

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20 0 20 40 60

GRAPHIC SCALE IN FEET

SCALE: 1"=20'

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MACON-BIBB COUNTY PARKS AND RECREATION

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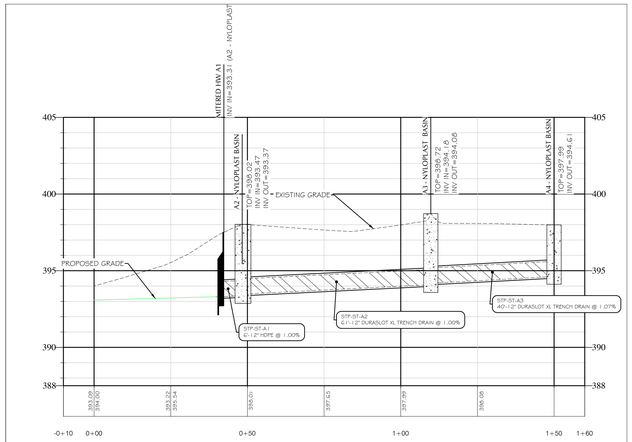
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SITE LAYOUT

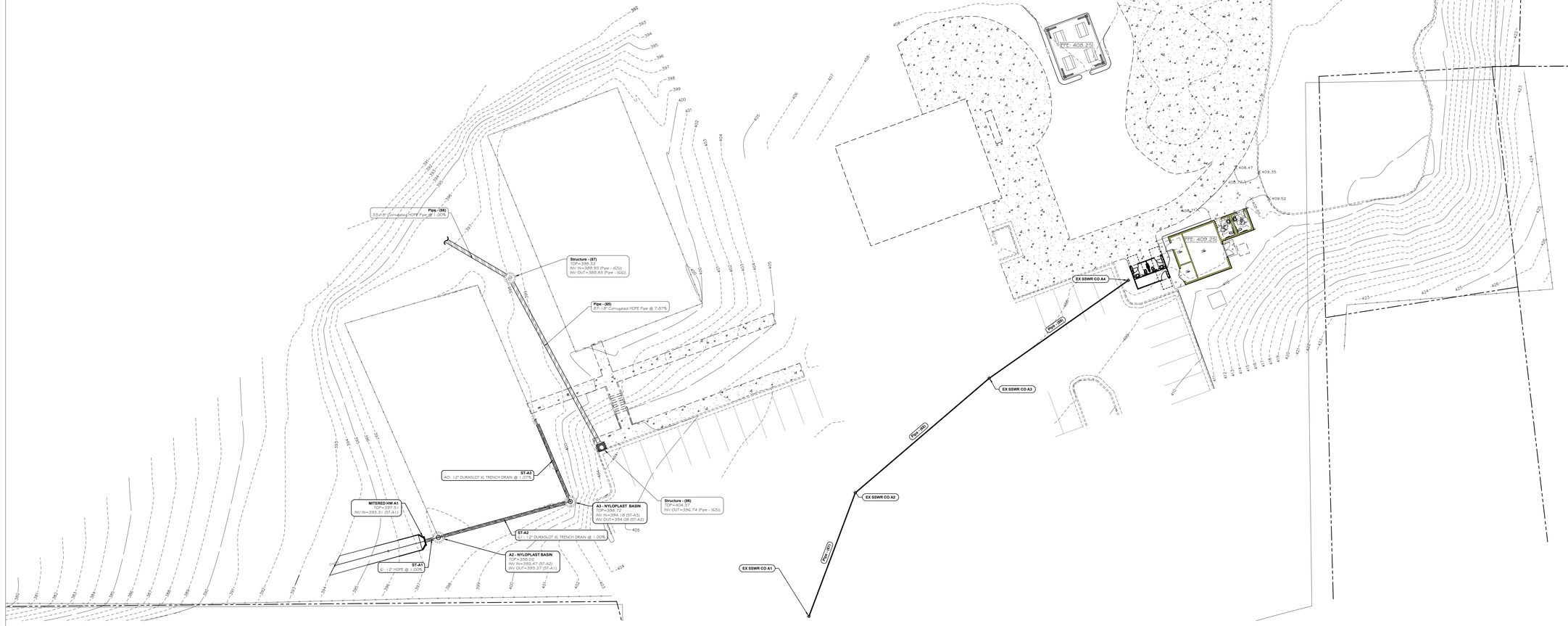
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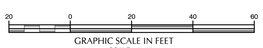
C201

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STORM A
VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=20'





GRAPHIC SCALE IN FEET
SCALE: 1"=20'

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Drawing Name:

GRADING AN DRAINAGE PLAN

Drawing No:

C301



UTILITY NOTES

1. AT THE TIME OF THESE DRAWINGS, THE LOCATION AND SIZE OF THE EXISTING WATER LINE IS UNKNOWN.
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20 0 20 40 60
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

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RECREATION CENTER RENOVATION

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2024-081	10/30/24

Drawing Name:

UTILITIES PLAN

Drawing No:

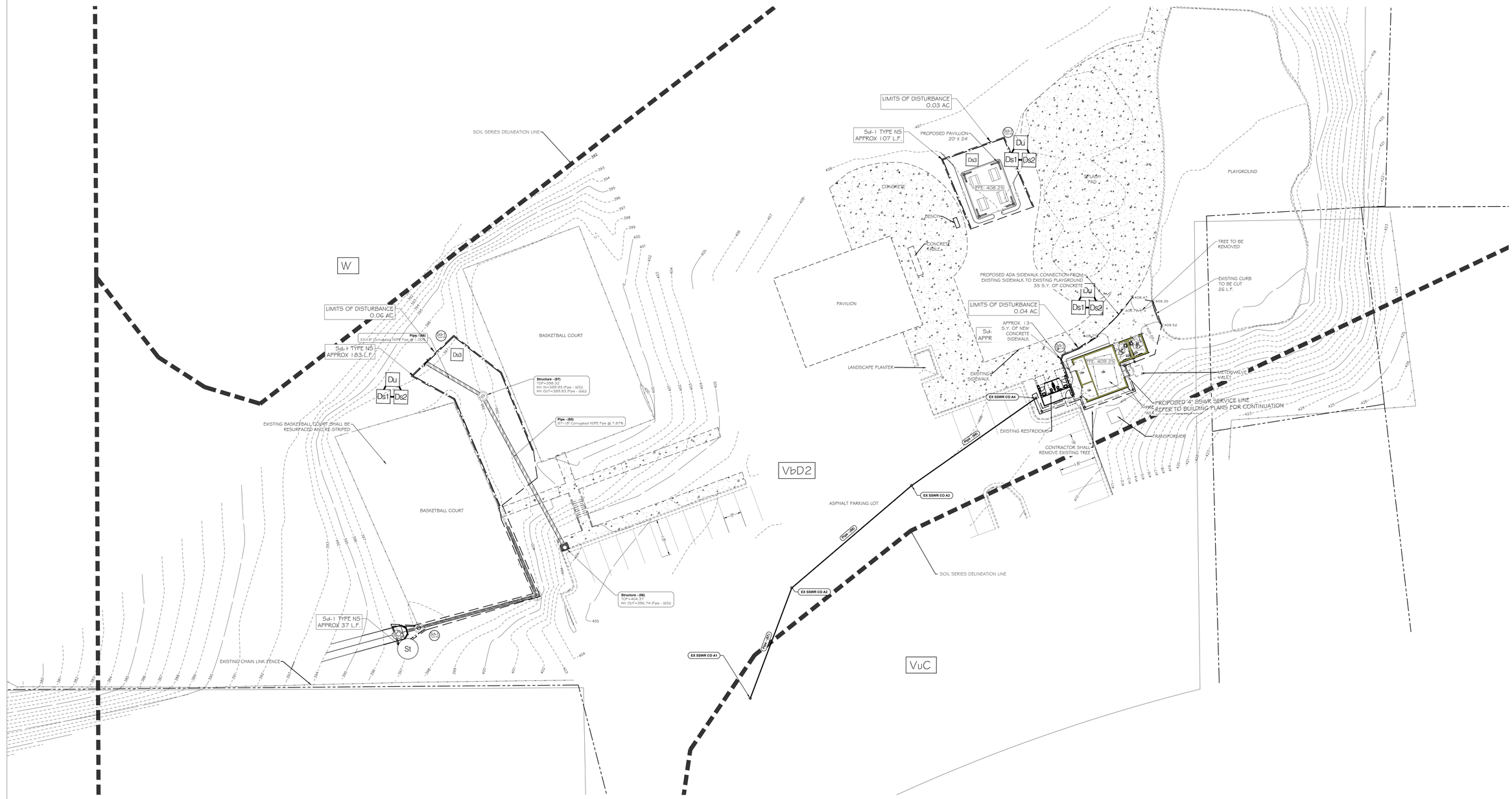
C401

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SOIL LEGEND:

VbD2 - Vance sandy loam, 10 to 17 percent slopes, eroded

VuC - Vaucluse-Urban Land complex, 2 to 8 percent slopes



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GSWCC L2 Design Professional Certification No. 80380

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SURVEY · PLAN · DESIGN
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WARNER ROBINS, GA. 31088
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MBC

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RECREATION CENTER RENOVATION

3793 LOG CABIN DR., MACON, GA 31202

GRAPHIC SCALE IN FEET
SCALE: 1"=20'

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Project Status:	Revision Date:
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Revision No (if any):	Revision Date:

Project No:	Current Date:
2024-081	10/30/24

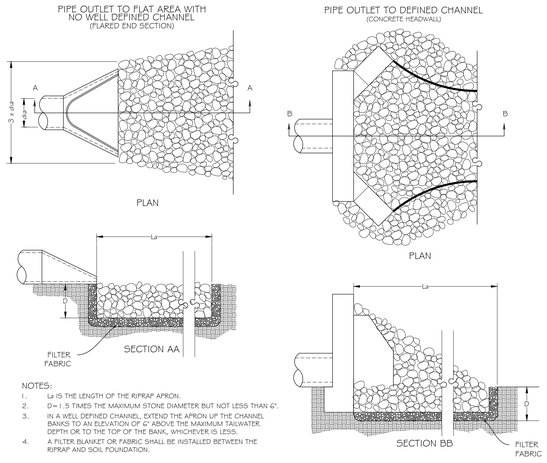
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ESPC PHASE 1

Drawing No:

C501

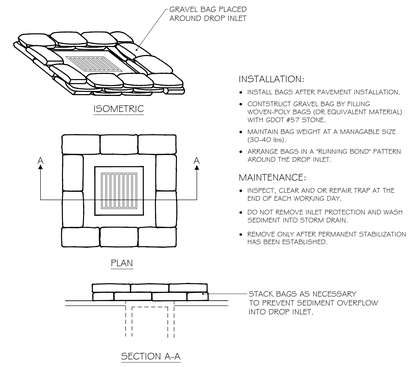
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NOTES:

1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

St — STORMDRAIN OUTLET PROTECTION



INSTALLATION:

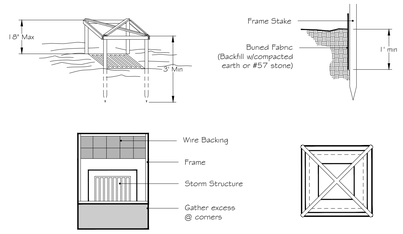
- INSTALL BAGS AFTER PAVEMENT INSTALLATION.
- CONSTRUCT GRAVEL BAG BY FILLING WOVEN-POLY BAGS (OR EQUIVALENT MATERIAL) WITH GDOT #57 STONE.
- MAINTAIN BAG WEIGHT AT A MANAGABLE SIZE (30-40 lbs).
- ARRANGE BAGS IN A "RUNNING BOND" PATTERN AROUND THE DROP INLET.

MAINTENANCE:

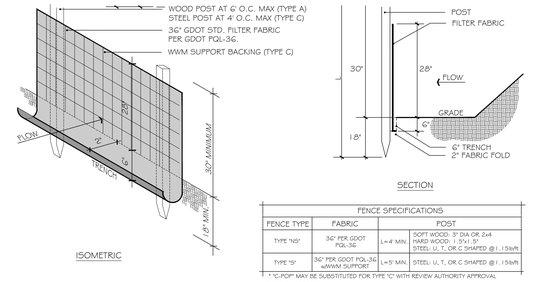
- INSPECT, CLEAR AND OR REPAIR TRAP AT THE END OF EACH WORKING DAY.
- DO NOT REMOVE INLET PROTECTION AND WASH SEDIMENT INTO STORM DRAIN.
- REMOVE ONLY AFTER PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

Sd2-GB — INLET SEDIMENT TRAP-GRAVEL BAG

THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF TEMPORARY PONDING CREATES A SAFETY HAZARD.



Sd2-F — FILTER FABRIC & FRAME DETAIL
(STORM INLET PROTECTION)



FENCE SPECIFICATIONS			
FENCE TYPE	FABRIC	POST	
TYPE "NS"	36" PER GDOT PQL-36	L=4' MIN.	SOFT WOOD: 3" DIA OR 2x4 HARD WOOD: 1.5"x1.5" STEEL: U, T, OR C SHAPED @ 1.15lb/ft
TYPE "S"	36" PER GDOT PQL-36 w/WWM SUPPORT	L=5' MIN.	STEEL: U, T, OR C SHAPED @ 1.15lb/ft

* "C-POP" MAY BE SUBSTITUTED FOR TYPE "C" WITH REVIEW AUTHORITY APPROVAL

INSTALLATION:

- A SIX INCH TRENCH IS DUG WHERE FENCE IS TO BE PLACED. POSTS ARE DRIVEN INTO THE GROUND AT A DEPTH THAT ALLOWS THE FIRST MARKER LINE TO REACH THE TOP OF TRENCH. CONTINUE TO DRIVE ALL POSTS TO THE SAME DEPTH. KEEPING FABRIC STRECHED TIGHT. BACKFILL THE TRENCH WITH REMAINING SOIL.

Sd1 — SEDIMENT CONTROL FENCE

WM2A
ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON,GEORGIA 31201

GEORGIA REGISTERED No. 45425 PROFESSIONAL ENGINEER CAMERON JAMES GRESHAM

GSWCC L2 Design Professional
Certification No. 80380

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FILMORE THOMAS PARK
RECREATION CENTER RENOVATION

3793 LOG CABIN DR., MACON, GA 31202

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Project Status:	Revision Date:
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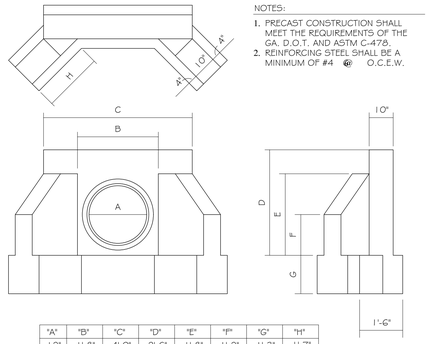
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ESPC DETAILS

Drawing No:

C504

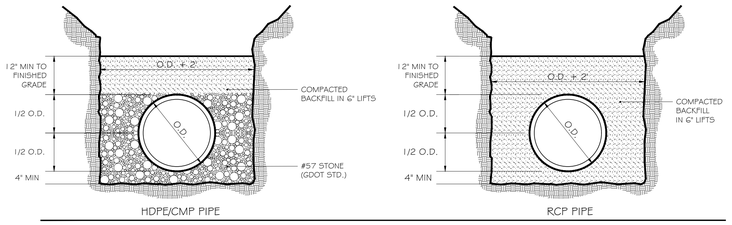
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NOTES:
1. PRECAST CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE GA. D.O.T. AND ASTM C-478.
2. REINFORCING STEEL SHALL BE A MINIMUM OF #4 @ O.C.E.W.

"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
12"	1'-8"	4'-0"	2'-6"	1'-8"	1'-2"	1'-3"	1'-7"
15"	2'-0"	4'-4"	2'-10"	2'-0"	1'-3"	1'-3"	1'-7"
18"	2'-4"	4'-8"	3'-2"	2'-4"	1'-4"	1'-3"	1'-7"
24"	2'-10"	5'-2"	3'-8"	2'-10"	1'-5"	1'-4"	2'-1"
30"	3'-6"	5'-10"	4'-4"	3'-6"	1'-9"	1'-6"	2'-5"
36"	4'-0"	6'-4"	4'-10"	4'-0"	2'-0"	1'-8"	2'-11"
42"	4'-6"	6'-10"	5'-4"	4'-6"	2'-3"	2'-0"	3'-6"
48"	5'-2"	7'-6"	6'-0"	5'-2"	2'-6"	2'-0"	4'-0"
54"	5'-9"	8'-1"	6'-7"	5'-9"	2'-9"	2'-0"	4'-6"
60"	6'-4"	8'-8"	7'-2"	6'-4"	3'-0"	2'-2"	5'-0"

PRECAST CONCRETE HEADWALL DETAIL

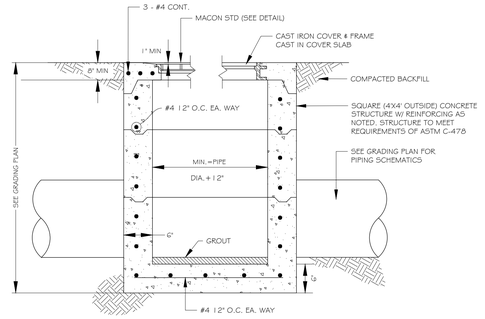


NOTE: MINIMUM COVER UNDER PAVEMENT SECTIONS SHALL BE AS FOLLOWS:
HDPE- 12" TO FINISHED GRADE UNDER RIGID PAVEMENT
12" TO FINISHED GAB UNDER FLEXIBLE PAVEMENT

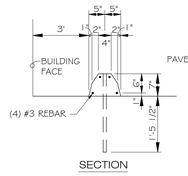
CMP- REFER TO MANUFACTURERS RECOMMENDATIONS

COMPACTION & TESTING:
- OUTSIDE OF EXISTING OR PROPOSED PAVING=95% STANDARD PROCTOR.
- BENEATH EXISTING OR PROPOSED PAVING= 100 % STANDARD PROCTOR.
- TESTING OF ALL COMPACTION SHALL BE CERTIFIED BY GEOTECHNICAL ENGINEER.

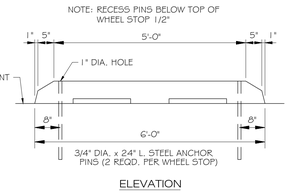
STORM PIPE BEDDING DETAIL



JUNCTION BOX DETAIL

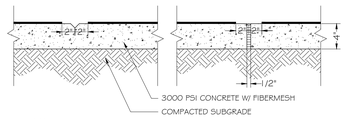


SECTION



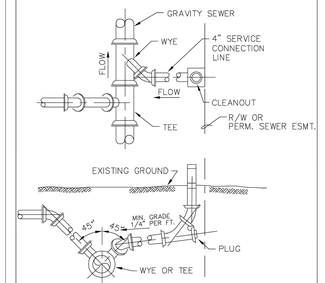
ELEVATION

CONCRETE WHEEL STOP DETAIL

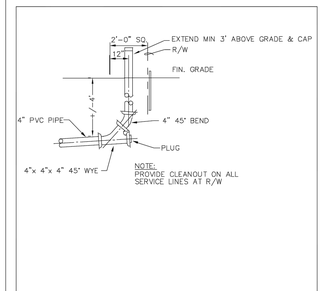


NOTE:
PROVIDE EXPANSION JOINTS WHERE CONCRETE WALK IS ADJACENT TO CURB AND/OR BUILDING SLAB AND AT 40' MAX. INTERVALS

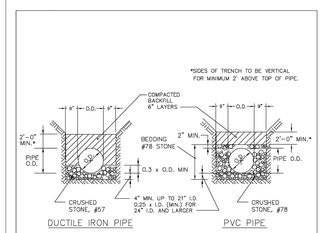
CONCRETE SIDEWALK DETAIL



STATUS	BY	APPROVED	DATE	MACON WATER AUTHORITY STANDARD DETAILS	RECOMMENDED BY THE MACON WATER AUTHORITY ENGINEERING DEPT.
ORIGINAL				SERVICE CONNECTION DETAIL N.T.S.	DRAWING NUMBER S-4
REVISION					



STATUS	BY	APPROVED	DATE	MACON WATER AUTHORITY STANDARD DETAILS	RECOMMENDED BY THE MACON WATER AUTHORITY ENGINEERING DEPT.
ORIGINAL				CLEANOUT DETAIL SIZE OF CLEANOUT IS 4" x 4" N.T.S.	DRAWING NUMBER S-6
REVISION					



BEDDING MATERIAL USE:
#57 STONE FOR D.I.P.
#78 STONE FOR PVC

STATUS	BY	APPROVED	DATE	MACON WATER AUTHORITY STANDARD DETAILS	RECOMMENDED BY THE MACON WATER AUTHORITY ENGINEERING DEPT.
ORIGINAL				PIPE BEDDING AND HAUNCHING DETAILS N.T.S.	DRAWING NUMBER OT-2
REVISION					

WM2A ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON, GEORGIA 31201

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 45425 CAREY JAMES GRESHAM

GSWCC L2 Design Professional Certification No. 80380

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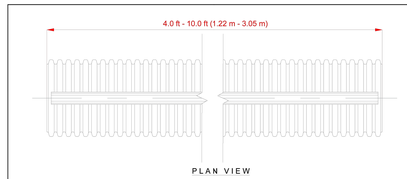
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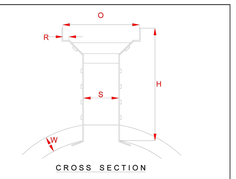
ESPC DETAILS

Drawing No:

C601

Plotted: 10/31/2024 9:58:18 AM





PIPE Ø, in (mm)	H1-H2, in (mm)	W, in (mm)	O, in (mm)	S, in (mm)	R, in (mm)	PRODUCT #
6 (150)	3.00 - 24.00 (76 - 610)	0.46 (13)				0690DSXL
8 (200)	3.00 - 24.00 (76 - 610)	0.61 (15)				0890DSXL
10 (250)	3.00 - 24.00 (76 - 610)	0.73 (19)				1090DSXL
12 (300)	3.50 - 24.00 (89 - 609)	1.15 (29)				1290DSXL
12 (300)	24.01 - 36.00 (610 - 914)					1290DSDTXL
15 (375)	3.75 - 24.00 (95 - 609)	1.30 (33)				1590DSXL
15 (375)	24.01 - 36.00 (610 - 914)					1590DSDTXL
18 (450)	4.00 - 24.00 (102 - 609)	1.57 (40)	5.00 (127)	2.25 (57)	0.32 (8)	1890DSXL
18 (450)	24.01 - 36.00 (610 - 914)					1890DSDTXL
24 (600)	4.25 - 24.00 (121 - 609)	1.86 (40)				2490DSXL
24 (600)	24.01 - 36.00 (610 - 914)					2490DSDTXL
30 (750)	5.00 - 24.00 (127 - 609)	2.55 (65)				3090DSXL
30 (750)	24.01 - 36.00 (610 - 914)					3090DSDTXL
36 (900)	5.25 - 24.00 (133 - 609)	2.85 (72)				3690DSXL
36 (900)	24.01 - 36.00 (610 - 914)					3690DSDTXL

NOTES:
1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS
2. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS AND MAY NOT RESEMBLE THE IMAGES SHOWN ABOVE.

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	Updates to dimensions	KJS	05/19/2023	-

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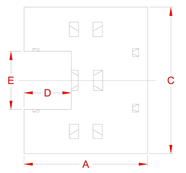
Duraslot XL Pipe Custom Slot Height

DRAWING NUMBER: STD-1401B

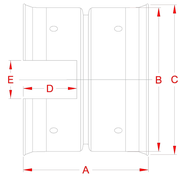
ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-18-2023	
NTS	
1 OF 1	

ST CLEATED INTERNAL ADAPTER FOR 4" PIPE DIAMETER



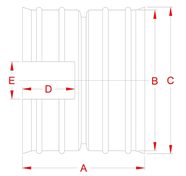
BELL-BELL ADAPTER FOR 6" -10" PIPE DIAMETER



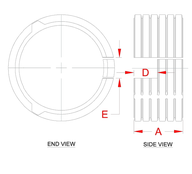
ADAPTERS FOR DURASLOT DIMENSIONS

PIPE Ø, in (mm)	A, in (mm)	B, in (mm)	C, in (mm)	D, in (mm)	E, in (mm)	PRODUCT # (Std./Cust. Slot)
6 (150)	7.25 (184)	6.95 (177)	7.63 (194)	3.00 (76)	2.50 (64)	0662DS/ 0696DS
8 (200)	8.25 (210)	9.17 (233)	10.13 (257)	3.50 (89)	2.50 (64)	0862DS/ 0896DS
10 (250)	9.25 (235)	11.56 (294)	12.13 (308)	4.00 (100)	2.50 (64)	1062DS/ 1096DS
12 (300)	14.00 (356)	14.60 (371)	15.40 (391)	5.50 (140)	2.50 (64)	1262DS/ 1296DS
15 (375)	16.00 (406)	17.75 (449)	18.60 (472)	6.50 (165)	2.50 (64)	1562DS/ 1596DS
18 (450)	18.00 (457)	21.40 (544)	22.40 (569)	7.50 (191)	2.50 (64)	1862DS/ 1896DS
24 (600)	14.80 (374)	28.20 (716)	29.25 (743)	6.00 (152)	2.50 (64)	2462DS/ 2496DS
30 (750)	16.50 (419)	N/A	NA	8.00 (203)	2.50 (64)	3062DS/ 3096DS
36 (900)	20.80 (528)	N/A	NA	10.00 (254)	2.50 (64)	3662DS/ 3696DS

ST CLEATED EXTERNAL ADAPTER FOR 12" PIPE DIAMETER



SPLIT COUPLER ADAPTER FOR 30" & 36" PIPE DIAMETER



ADAPTERS FOR DURASLOT XL DIMENSIONS

PIPE Ø, in (mm)	A, in (mm)	B, in (mm)	C, in (mm)	D, in (mm)	E, in (mm)	PRODUCT # (Std./Cust. Slot)
6 (150)	7.25 (184)	6.95 (177)	7.63 (194)	3.00 (76)	2.50 (64)	0662DSXL/ 0696DSXL
8 (200)	8.25 (210)	9.17 (233)	10.13 (257)	3.50 (89)	2.50 (64)	0862DSXL/ 0896DSXL
10 (250)	9.25 (235)	11.56 (294)	12.13 (308)	4.00 (100)	2.50 (64)	1062DSXL/ 1096DSXL
12 (300)	14.00 (356)	14.60 (371)	15.40 (391)	5.50 (140)	2.50 (64)	1262DSXL/ 1296DSXL
15 (375)	16.00 (406)	17.75 (449)	18.60 (472)	6.50 (165)	2.50 (64)	1562DSXL/ 1596DSXL
18 (450)	18.00 (457)	21.40 (544)	22.40 (569)	7.50 (191)	2.50 (64)	1862DSXL/ 1896DSXL
24 (600)	14.80 (374)	28.20 (716)	29.25 (743)	6.00 (152)	2.50 (64)	2462DSXL/ 2496DSXL
30 (750)	16.50 (419)	N/A	NA	8.00 (203)	2.50 (64)	3062DSXL/ 3096DSXL
36 (900)	20.80 (528)	N/A	NA	10.00 (254)	2.50 (64)	3662DSXL/ 3696DSXL

NOTES:
1. ALL FITTING DIMENSIONS ARE FOR REFERENCE ONLY.
2. ALL HARDWARE REQUIRED FOR ASSEMBLY IS INCLUDED WITH THE PURCHASE OF A COUPLER BAND, INCLUDING A SLOT END CAP.

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
0	-	-	-	-

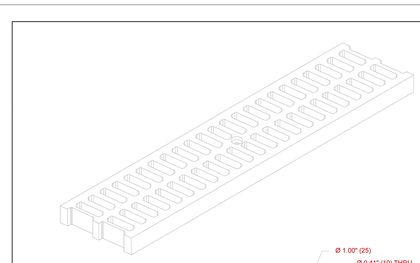
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Duraslot & Duraslot XL Adapter

DRAWING NUMBER: STD-1412

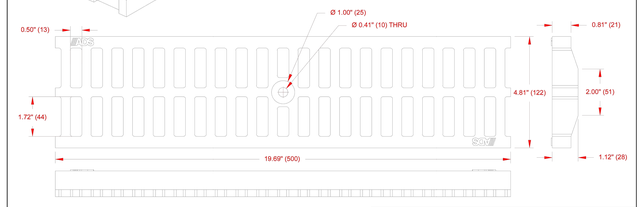
ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-18-2023	
NTS	
1 OF 1	



STANDARD GRATE INFORMATION

OPEN AREA (SQ IN)	OPEN AREA (%)	PRODUCT #
37.44	39.53	0520DIS



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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
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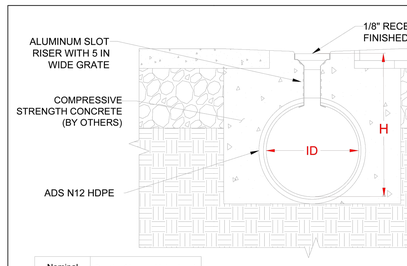
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

Duraslot XL Standard Grate

DRAWING NUMBER: STD-1451

ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-18-2023	
NTS	
1 OF 1	



Nominal Diameter, ID, in. (mm)	Depth of Invert, H, in. (mm)	
	Minimum	Maximum
6 (150)	9.00 (299)	30.00 (762)
8 (200)	11.00 (279)	32.00 (813)
10 (250)	13.00 (330)	34.00 (864)
12 (300)	15.50 (394)	48.00 (1219)
15 (375)	18.75 (476)	51.00 (1295)
18 (450)	22.00 (559)	54.00 (1372)
24 (600)	28.75 (730)	60.00 (1524)
30 (750)	35.00 (889)	66.00 (1676)
36 (900)	41.25 (1048)	72.00 (1829)

NOTES:
1. BACKFILL DESIGN SHOULD BE USED FOR NON-VEHICULAR LOADS ONLY
2. SURFACE PAVEMENT ADJOINING THE SLOT SHOULD BE A NON-EROSIVE MATERIAL.
3. SITE ENGINEER TO PROVIDE SITE SPECIFIC BACKFILL DETAILS, SUCH AS PAVEMENT TYPE.
4. REFER TO ADS TECH NOTE 2.11 FOR ADDITIONAL DESIGN INFORMATION.
5. SLOT RECESS IS NOT INCLUDED IN DEPTH OF INVERT TABLES.

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	Minor dimension update	KJS	05/19/2023	-

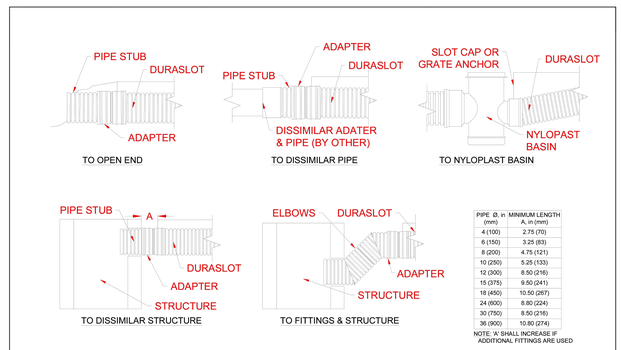
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Duraslot XL Light Duty Installation

DRAWING NUMBER: STD-1460B

ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-18-2023	
NTS	
1 OF 1	



PIPE Ø, in (mm)	MINIMUM LENGTH A, in (mm)
4 (100)	2.75 (70)
6 (150)	3.25 (83)
8 (200)	4.75 (121)
10 (250)	5.25 (133)
12 (300)	8.50 (215)
15 (375)	9.50 (241)
18 (450)	10.50 (267)
24 (600)	8.50 (224)
30 (750)	8.50 (216)
36 (900)	10.80 (274)

NOTE 'A' SHALL INCREASE IF ADDITIONAL FITTINGS ARE USED

NOTES:
1. DURASLOT ADAPTERS MAY CONNECT TO N-12 HDPE OR 12" - 18" HP STORM PIPE
2. ALL NON-DURASLOT PRODUCTS TO BE SUPPLIED SEPARATELY

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
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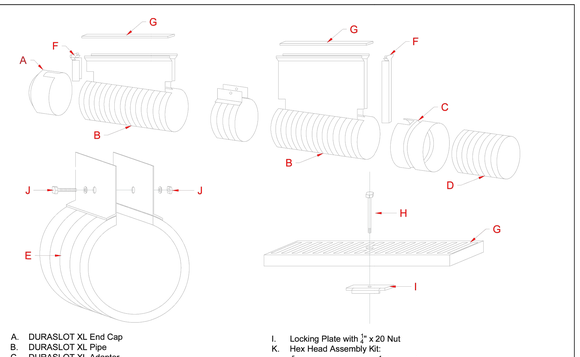
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Duraslot & Duraslot XL Outlet Connection

DRAWING NUMBER: STD-1466

ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-16-2024	
NTS	
1 OF 1	



A. DURASLOT XL End Cap
B. DURASLOT XL Pipe
C. DURASLOT XL Adapter
D. ADS N-12 HDPE or HP Storm Pipe
E. DURASLOT XL Coupler Band
F. DURASLOT XL End Plate
G. 5" Wide Grate (Provided by ADS or Other)
H. $\frac{3}{4}$" x 20 Locking Bolt (Bolt Design Varies by Grate Design)
I. Locking Plate with $\frac{3}{4}$" x 20 Nut
K. Hex Head Assembly Kit: $\frac{5}{16}$" Hex Head Screw x $3\frac{1}{2}$" Long w/ (2) Washers & $\frac{5}{16}$" Hex Nut

NOTE: - Slot height may vary per project
- Each Cap (A) & Adapter (C) comes with an End Plate (F).
- Coupler Band (E) comes with a Hex Head Assembly Kit (J)

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
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Duraslot XL Assembly

DRAWING NUMBER: STD-1460B

ADS Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KJS	
04-18-2023	
NTS	
1 OF 1	

WM2A ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON,GEORGIA 31201

GEORGIA REGISTERED No. 45425 PROFESSIONAL ENGINEER JAMES GRESHAM

GSWCC L2 Design Professional Certification No. 80380

TRAVERSE LAND SERVICES, LLC
SURVEY • PLAN • DESIGN
253 CARL VINSON PARKWAY
WARNER ROBINS, GA. 31088
478.922.7724 www.Traverse-LS.com

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK
RECREATION CENTER RENOVATION

3793 LOG CABIN DR., MACON, GA 31202

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Project Status: ISSUED FOR PERMIT
Revision Date:
Revision No (if any):
Revision Date:

Project No: 2024-081
Current Date: 10/30/24

Drawing Name: ADS DETAILS

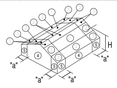
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GENERAL NOTES

1. LOADS
   - A. ROOF (LLR)..... 20 PSF
   - B. DEAD..... 15 PSF
2. DESIGN WIND LOADS
   - A. BASIC WIND SPEED (V_{ULT})..... 109 MPH
   - B. NOMINAL WIND SPEED (V_{ASD})..... 84.5 MPH
   - C. RISK CATEGORY..... II
   - D. WIND EXPOSURE CATEGORY "C"
   - E. INTERNAL PRESSURE COEFFICIENT..... "GCpi" = ±0
   - F. COMPONENTS AND CLADDING DESIGN WIND PRESSURES:

		A=EFFECTIVE WIND AREA (FT²)			
	ZONE	A=10	A=20	A=50	A=100
ROOF	1, 2e	+16 / -33	+16 / -33	+16 / -28	+16 / -24
	2n, 2r, 3e	+16 / -55	+16 / -48	+16 / -38	+16 / -31
	3r	+16 / -65	+16 / -54	+16 / -40	+16 / -40
OVERHANG	1, 2e	- / -44	- / -44	- / -42	- / -41
	2n, 2r	- / -66	- / -61	- / -55	- / -51
	3e	- / -79	- / -68	- / -53	- / -53
	3r	- / -87	- / -74	- / -57	- / -45



ALL PRESSURES ARE INTENDED TO BE APPLIED AND INTERPRETED IN STRICT ACCORDANCE WITH ASCE 7-16. FOR THE PURPOSES OF APPLYING THESE LOADS IN ACCORDANCE WITH COMPONENTS & CLADDING FIGURES IN ASCE 7-16, a=3 FT.

3. SEISMIC DESIGN
   - A. SEISMIC IMPORTANCE FACTOR..... I =1.00
   - B. MAPPED SPECTRAL RESPONSE ACCELERATIONS..... S_S =0.178, S_1 =0.077
   - C. SITE CLASS "D" ASSUMED
   - D. SPECTRAL RESPONSE COEFFICIENTS..... S_{DS} =0.19, S_{D1} =0.123
   - E. SEISMIC DESIGN CATEGORY "B"
   - F. BASIC LATERAL FORCE RESISTING SYSTEM: TIMBER FRAMES
   - G. DESIGN BASE SHEAR..... 2.2 KIPS
   - H. SEISMIC RESPONSE COEFFICIENT..... C_S =0.127
   - I. RESPONSE MODIFICATION FACTOR..... R =1.5
   - J. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE FOR SEISMIC DESIGN OF BUILDINGS
1. CODES
   - A. INTERNATIONAL BUILDING CODE, 2018 ED. WITH LATEST GEORGIA AMENDMENTS.
   - B. REINFORCED CONCRETE: ACI 318-14.
   - C. ALL STEEL WORK SHALL COMPLY WITH APPLICABLE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INCLUDING THE SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE, AWS D1.1-LATEST EDITION.
2. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, ANCHORS, AND FRAMING ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.
3. SHOP DRAWINGS GENERAL NOTE: THE PLANS, SECTIONS, AND DETAILS PROVIDED AS PART OF THE CONTRACT DOCUMENTS SHALL NOT BE USED IN A REPRODUCIBLE FORM AS PART OF THE SHOP DRAWINGS.

PUMP HOUSE WIND AND SEISMIC

1. LOADS
   - A. ROOF (LLR)..... 20 PSF
   - B. DEAD..... 15 PSF
2. DESIGN WIND LOADS
   - A. BASIC WIND SPEED (V_{ULT})..... 109 MPH
   - B. NOMINAL WIND SPEED (V_{ASD})..... 84.5 MPH
   - C. RISK CATEGORY..... II
   - D. WIND EXPOSURE CATEGORY "C"
   - E. INTERNAL PRESSURE COEFFICIENT..... "GCpi" = ±0.18
   - F. COMPONENTS AND CLADDING DESIGN WIND PRESSURES:

		A = EFFECTIVE WIND AREA (FT²)			
	ZONE	A=10	A=20	A=50	A=100
WALLS	CORNER (5)	+22 / -31	+21 / -28	+19 / -25	+18 / -23
	OTHER (4)	+22 / -24	+21 / -23	+19 / -22	+18 / -20
ROOF: 6 ON 12	1	+16 / -33	+16 / -33	+16 / -28	+16 / -24
	2E	+16 / -33	+16 / -33	+16 / -28	+16 / -24
	2N	+16 / -55	+16 / -48	+16 / -38	+16 / -31
	2R	+16 / -55	+16 / -48	+16 / -38	+16 / -31
	3E	+16 / -55	+16 / -48	+16 / -38	+16 / -31
	3R	+16 / -65	+16 / -54	+16 / -40	+16 / -40
OVERHANG: 6 ON 12	1	- / -44	- / -44	- / -43	- / -44
	2E	- / -44	- / -44	- / -43	- / -44
	2N	- / -66	- / -61	- / -55	- / -69
	2R	- / -66	- / -61	- / -55	- / -69
	3E	- / -79	- / -68	- / -53	- / -64
	3R	- / -87	- / -74	- / -57	- / -65

FOR THE PURPOSES OF APPLYING THESE LOADS IN ACCORDANCE WITH COMPONENT AND CLADDING FIGURES IN ASCE 7-16, a = 3 FT

3. SEISMIC DESIGN
   - A. SEISMIC IMPORTANCE FACTOR..... I =1.00
   - B. MAPPED SPECTRAL RESPONSE ACCELERATIONS..... S_S =0.178, S_1 =0.077
   - C. SITE CLASS "D" ASSUMED
   - D. SPECTRAL RESPONSE COEFFICIENTS..... S_{DS} =0.19, S_{D1} =0.123
   - E. SEISMIC DESIGN CATEGORY "B"
   - F. BASIC LATERAL FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS
   - G. DESIGN BASE SHEAR..... 4 KIPS
   - H. SEISMIC RESPONSE COEFFICIENT..... C_S =0.095
   - I. RESPONSE MODIFICATION FACTOR..... R =2
   - J. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE FOR SEISMIC DESIGN OF BUILDINGS

SOIL PARAMETERS

1. SOIL PARAMETERS
   - A. FOOTINGS ARE DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2500 POUNDS PER SQUARE FOOT. SPECIFIC SITE PREPARATION GUIDELINES MAY BE REQUIRED TO ACHIEVE THIS SOIL BEARING PRESSURE.
2. IF SITE CONDITIONS DIFFER FROM THOSE INDICATED, THE DESIGN PROFESSIONAL SHALL BE NOTIFIED IMMEDIATELY.
3. REFERENCE CIVIL GRADING AND DRAINAGE PLANS, DETAILS, AND SPECIFICATIONS.
4. ALL FOUNDATION WORK SHALL BE DONE 'IN THE DRY'. SEE REFERENCED SOILS REPORT FOR PRE-CONSTRUCTION DRAINAGE REQUIREMENTS.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS THROUGH AN INDEPENDENT SITE INVESTIGATION PRIOR TO COMMENCING WORK.
6. COMPACTED FILL TO BE 4" OF COMPACTED GRADED AGGREGATE BASE.

WOOD FRAMING GENERAL NOTES

1. ALL WOOD FRAMING SHALL BE S.Y.P. NO. 2 OR BETTER, EXCEPTIONS NOTED.
2. LVL FRAMING SHALL HAVE PROPERTIES EQUAL TO OR BETTER THAN Fb=2600 PSI, E=2.0E6 PSI
3. ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
4. WOOD CONSTRUCTION CONNECTORS SHALL BE ANCHOR TYPE/SIZE SPECIFIED HEREIN OR EQUIVALENT ANCHOR WITH EQUAL OR BETTER ALLOWABLE CAPACITY FROM USP OR TAMLYN.
   - A. UNLESS NOTED OTHERWISE, PROVIDE MAXIMUM RECOMMENDED NO. OF FASTENERS. FASTENERS TO BE MANUFACTURER'S SPECIFIED FASTENER TYPE/SIZE.
   - B. INSTALL ALL CONNECTORS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. DIMENSIONAL LUMBER CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THESE DRAWINGS SHALL HAVE THE MINIMUM SIZE AND NUMBER OF FASTENERS AS REQUIRED IN CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE, 2018 ED. WITH LATEST GA AMENDMENTS.

STRUCTURAL STEEL GENERAL NOTES

1. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. UNLESS NOTED OTHERWISE:
   - A. ALL PLATE STEEL SHALL CONFORM TO ASTM A572 GR.50 (50 KSI YIELD STRENGTH).
3. BOLTS JOINING STEEL TO WOOD AND WOOD TO WOOD SHALL CONFORM TO ASTM A307.
4. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE LATEST "STRUCTURAL STEEL DETAILING MANUAL" OF AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.
5. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, ANCHORS, AND FRAMING ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

REINFORCED CONCRETE GENERAL NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". DESIGN IS BASED ON ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT (150 PCF) AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
3. SUBMIT CONCRETE MIX DESIGNS FOR REVIEW, IN ACCORDANCE WITH ACI 301 & 318 TO THE ARCHITECT AND TESTING AGENCY.
4. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.
5. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
6. THE AIR CONTENT AT THE POINT OF PLACEMENT SHALL BE PER ACI 318 TABLE 19.3.3.1 FOR MODERATE EXPOSURE (F1). HARD TROWELED SLABS OR SLABS ON GRADE THAT WILL RECEIVED TOPPINGS SHALL NOT RECEIVE AIR ENTRAINMENT UNLESS PERMITTED BY TOPPING MANUFACTURER.
7. THE TESTING AGENCY SHALL SAMPLE AND TEST EACH 100 CU. YARDS OR FRACTION THEREOF OF EACH CLASS OF CONCRETE PLACED EACH DAY. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:

SLUMP:	ASTM C143
AIR CONTENT:	ASTM C231 (NORMAL WEIGHT CONCRETE) ASTM C173 (LIGHT WEIGHT CONCRETE)
COMPRESSIVE STRENGTH:	ASTM C39, WITH ONE CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS, AND ONE SPECIMEN HELD IN RESERVE.
CONCRETE TEMPERATURE:	ASTM C1064
UNIT WEIGHT:	ASTM C567

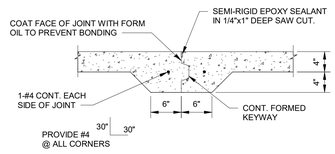
8. MOIST CURE CONCRETE WITH MOISTURE PROTECTIVE COVER FOR A MINIMUM OF 7 DAYS.
9. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS, CLEANED, AND CAULKED.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
11. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENY SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
12. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH (NOT FORMED):	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 BARS THROUGH #12 BARS	2"
#5 BARS AND SMALLER	1 1/2"

13. DO NOT PLACE PIPES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
14. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.
15. EXTERIOR SLABS SHALL DRAIN FREELY WITH A MAXIMUM VARIATION FROM THE INDICATED PLANE OF 1/4" PER 1'-0".

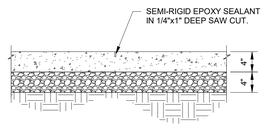
PREFABRICATED WOOD TRUSSES GENERAL NOTES

1. TRUSS DIAGRAMS AND ROOF FRAMING PLAN ARE TO BE FOLLOWED FOR OVERALL DIMENSIONS AND GENERAL CONFIGURATION. SPECIFICS OF CONFIGURATION AND MEMBER SIZES ARE TO BE DETERMINED BY TRUSS MANUFACTURER'S ENGINEER, WITH MINIMUM SIZES AS SPECIFIED BELOW.
2. TRUSS DESIGN SHALL BE PERFORMED BY AN ENGINEER, EMPLOYED BY THE TRUSS MANUFACTURER AND LICENSED TO PRACTICE IN THE STATE OF GEORGIA. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BEAR SAID ENGINEER'S SEAL.
3. CONFORM TO APPLICABLE STANDARDS OF THE 2018 INTERNATIONAL BUILDING CODE, WITH LATEST GEORGIA AMENDMENTS, AND THE TRUSS PLATE INSTITUTE, INCLUDING THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
4. DEAD LOADS, SNOW LOADS, LIVE LOADS, ROOF LIVE LOADS, SEISMIC LOADS AND WIND LOADS (AND THEIR COMBINATIONS) ARE TO BE IN ACCORDANCE WITH THE ABOVE REFERENCED CODE.
   - TRUSS TOP CHORD DL: 15 PSF
   - TRUSS BOTTOM CHORD DL: 10 PSF
   - TRUSS BOTTOM CHORD LL: 0 PSF
   - TRUSS TOP CHORD LL: 20 PSF
5. MEMBER SIZES ARE TO BE DETERMINED BY TRUSS ENGINEER'S CALCULATIONS, BUT MINIMUM SIZES FOR TOP AND BOTTOM CHORDS AND SOME OTHER NOTED MEMBERS TO BE 2"x6". ALL MEMBERS FOR ALL TRUSSES TO BE SOUTHERN YELLOW PINE, #2 OR BETTER GRADE.
6. MINIMUM SIZES SHOWN ABOVE SHALL NOT PRECLUDE A COMPLETE DESIGN AND ANALYSIS OF THE ROOF SYSTEM AND INDIVIDUAL TRUSSES. MEMBER SIZES LARGER THAN THOSE SHOWN ABOVE SHALL BE USED IF INDICATED BY TRUSS ENGINEER'S CALCULATIONS.
7. ALL TRUSSES SHALL BE FABRICATED IN THE MANUFACTURER'S SHOP AND DELIVERED ASSEMBLED TO THE JOB SITE. TRUSSES SHALL BE LOADED AND UNLOADED ACCORDING TO LIFTING DIRECTIONS GIVEN BY THE TRUSS ENGINEER. ``DUMPING" OF TRUSSES SHALL BE GROUNDS FOR REJECTION, AS WILL ANY OTHER DAMAGE CAUSED BY FABRICATION, TRANSPORTING OR HANDLING OF TRUSSES.
8. TRUSSES SHALL BE ERECTED BY THE MANUFACTURER'S REPRESENTATIVE AT THE DIRECTION OF THE TRUSS ENGINEER, EITHER IN PERSON OR BY SPECIFIC DIRECTIONS SHOWN ON SHOP DRAWINGS.
9. SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF ANY FABRICATION. SHOP DRAWINGS SHALL SHOW ALL DETAILS, DIMENSIONS, SIZES AND DESIGN CALCULATIONS NECESSARY TO FABRICATE AND ERECT TRUSSES AND ALL ASSOCIATED ACCESSORIES.
10. ALL TRUSSES SHALL BE ANCHORED TO RESIST UPLIFT AND HORIZONTAL FORCES COMPUTED BY TRUSS ENGINEER AS SHOWN ON SHOP DRAWINGS. ALL ACCESSORIES AND ANCHORAGE TO BE FURNISHED & INSTALLED BY TRUSS MANUFACTURER.



TYPICAL CONSTRUCTION JOINT (CJ) DETAIL

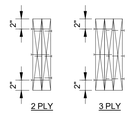
THIS DETAIL MAY BE USED AT THE CONTRACTOR'S DISCRETION WHERE A CONSTRUCTION JOINT IN THE SLAB IS REQUIRED.



SAWCUT FLOOR JOINT (SCJ) DETAIL

THE SLAB MAY BE POURED MONOLITHICALLY (IN LIEU OF KEYED JOINTS) PROVIDED THAT THE JOINTS ARE CUT AS SOON AS THE SLAB CAN SUPPORT AN OPERATOR AND EQUIPMENT (BUT NO MORE THAN 4 HOURS AFTER THE POUR). SAW CUT JOINTS SHOULD BE A MIN. OF 1" DEEP FOR A 4" THICK SLAB AND SHALL BE LOCATED AT 15'-0" MAX. ON CENTER. JOINTS SHOULD BE LOCATED SUCH THAT THE SIDE RATIO OF EACH AREA DOES NOT EXCEED 3:2. HOWEVER A RATIO OF 1:1 IS PREFERRED. PROVIDE EITHER A SAW CUT JOINT OR 2-#5'S x 6'-0" AT ALL INTERIOR CORNERS. A CONT. CONSTRUCTION JOINT (KEYED) SHALL BE PROVIDED AT THE END OF EACH DAY'S POURING SEQUENCE.

1 CONCRETE SLAB ON GRADE JOINTING GENERAL NOTES AND DETAILS
1" = 1'-0"



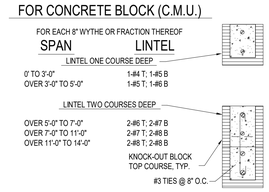
2-PLY MEMBERS ARE TO BE ATTACHED WITH 3 ROWS OF 16D NAILS AT 8" O.C. FROM EACH SIDE. STAGGER ROWS 4" ON OPPOSITE FACES. ROWS TO BE EQUALLY SPACED WITH A 2" MINIMUM EDGE DISTANCE.

3-PLY MEMBERS ARE TO BE ATTACHED WITH 3 ROWS OF 16D NAILS AT 4" O.C. ROWS TO BE EQUALLY SPACED. TOP AND BOTTOM ROWS SHALL BE 2" FROM EDGE.

2 TYP. MULTI-PLY BEAM ATTACHMENT
1" = 1'-0"

LINTEL SCHEDULE

FOR CONCRETE BLOCK (C.M.U.)

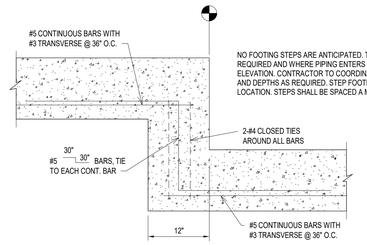


NOTES:

1- C.M.U. LINTELS AND REINFORCING SHALL EXTEND PAST EACH SIDE OF OPENING 48 BAR DIAMETERS (BASED ON LARGEST BAR) WHERE SPACE PERMITS. WHERE SPACE DOES NOT PERMIT EXTENSION, BEND BARS 90° INTO FULLY GROUTED CELL EACH SIDE OF OPENING.

2- CONCRETE BLOCK (C.M.U.) LINTELS SHALL BE MADE WITH FILLED ``U" BLOCKS, EXCEPT AS NOTED. FILL SHALL BE COARSE GROUT CONFORMING TO ASTM C476, 3/8" MAXIMUM STONE SIZE. SHORE POURED LINTELS 7 DAYS, MINIMUM.

3- WHERE C.M.U. LINTEL SPAN EXCEEDS 6'-0", FILL CELLS OF CONCRETE BLOCK UNDER BEARING FOR 16" LENGTH FROM FOOTING TO TOP OF WALL & PROVIDE 1-#5 VERTICAL BAR IN EACH OF 2 FILLED CELLS, EACH SIDE OF OPENING. AT OTHER LINTELS, PROVIDE 1-#5 VERTICAL BAR, EACH SIDE OF OPENING, IN FILLED CELL. EXTEND ALL VERTICALS FROM FOOTING MAT TO BOND BEAM AT TOP OF WALL.



TYPICAL FOOTING STEP

SCALE : 1"=1'-0"

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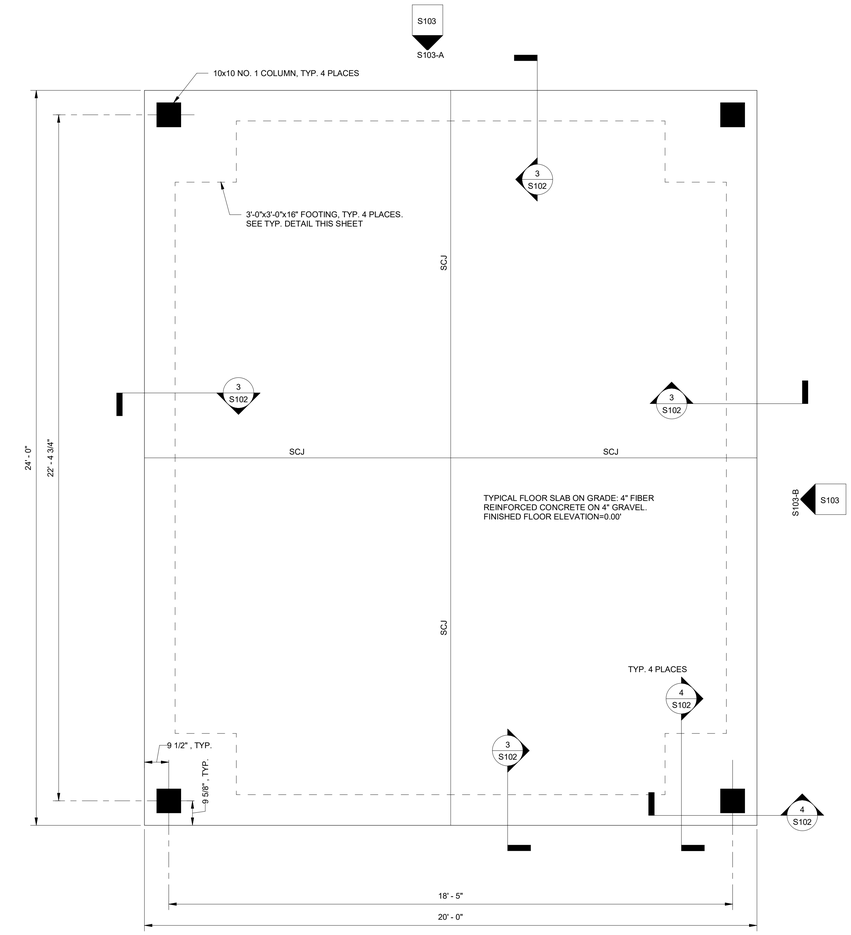
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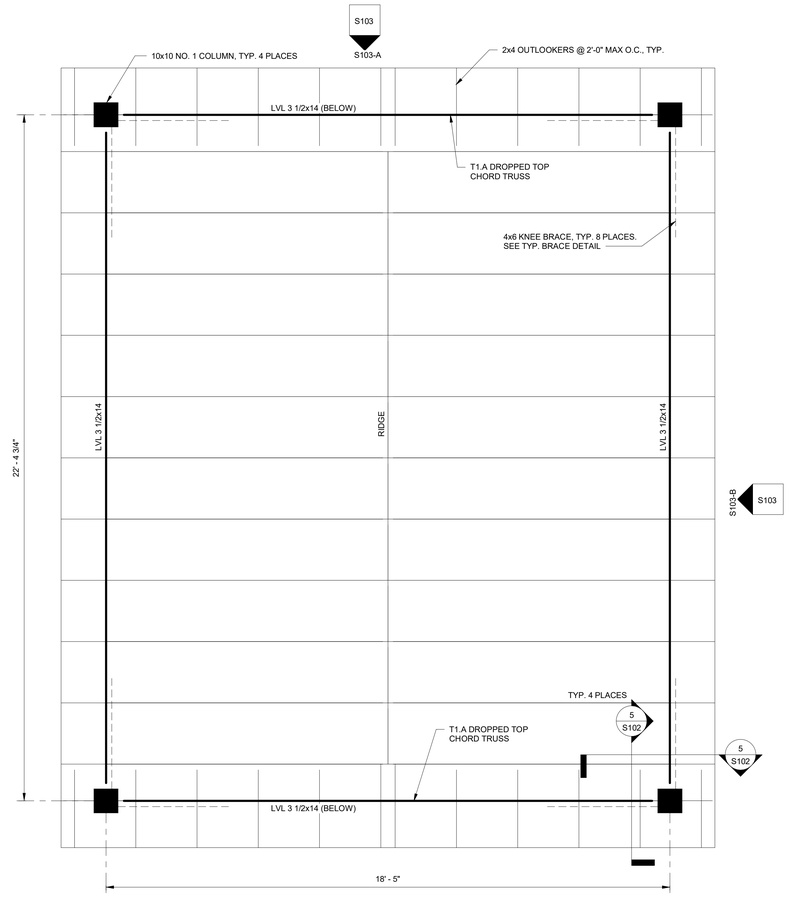
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Project Status: ISSUED FOR PERMIT
Revision No (if any): Revision Date:
Project No: 2024-081
Current Date: 10/30/24
Drawing Name: GENERAL NOTES AND DETAILS
Drawing No: **S101**

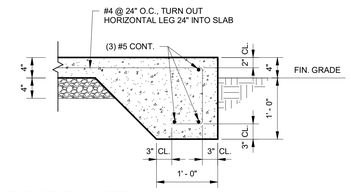
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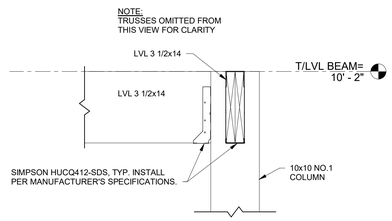
1 PAVILION FOUNDATION PLAN
1/2" = 1'-0"



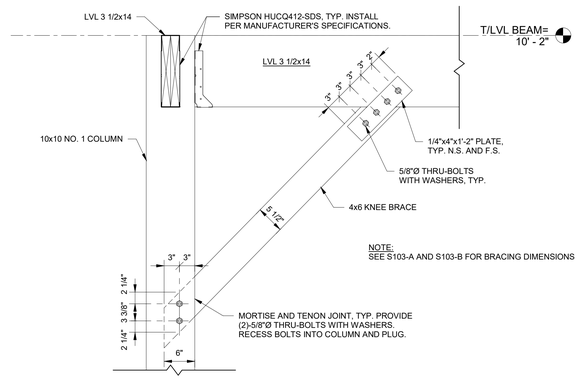
2 PAVILION ROOF FRAMING PLAN
1/2" = 1'-0"



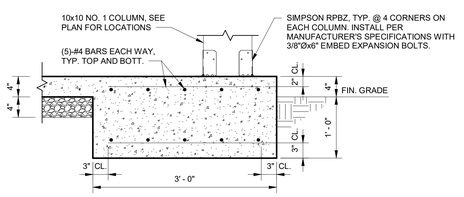
3 TYP. TURNDOWN DETAIL
1" = 1'-0"



5 TYP. BEAM ATTACHMENT
1" = 1'-0"



6 TYP. KNEE BRACE DETAIL
1" = 1'-0"



4 TYP. FOOTING DETAIL
1" = 1'-0"

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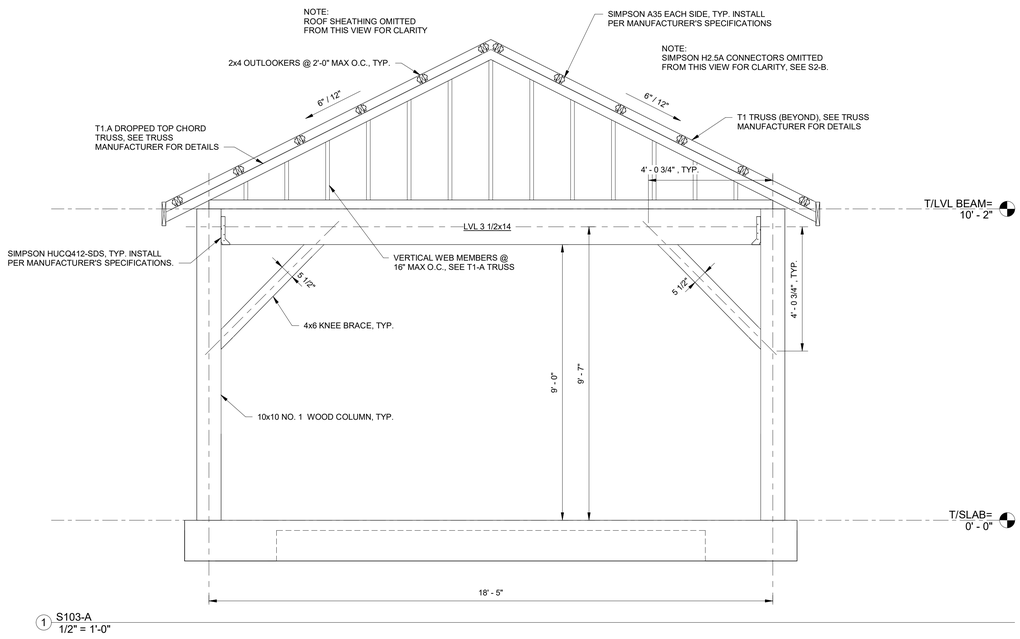
Revision No (if any): Revision Date:

Project No: 2024-081 Current Date: 10/30/24

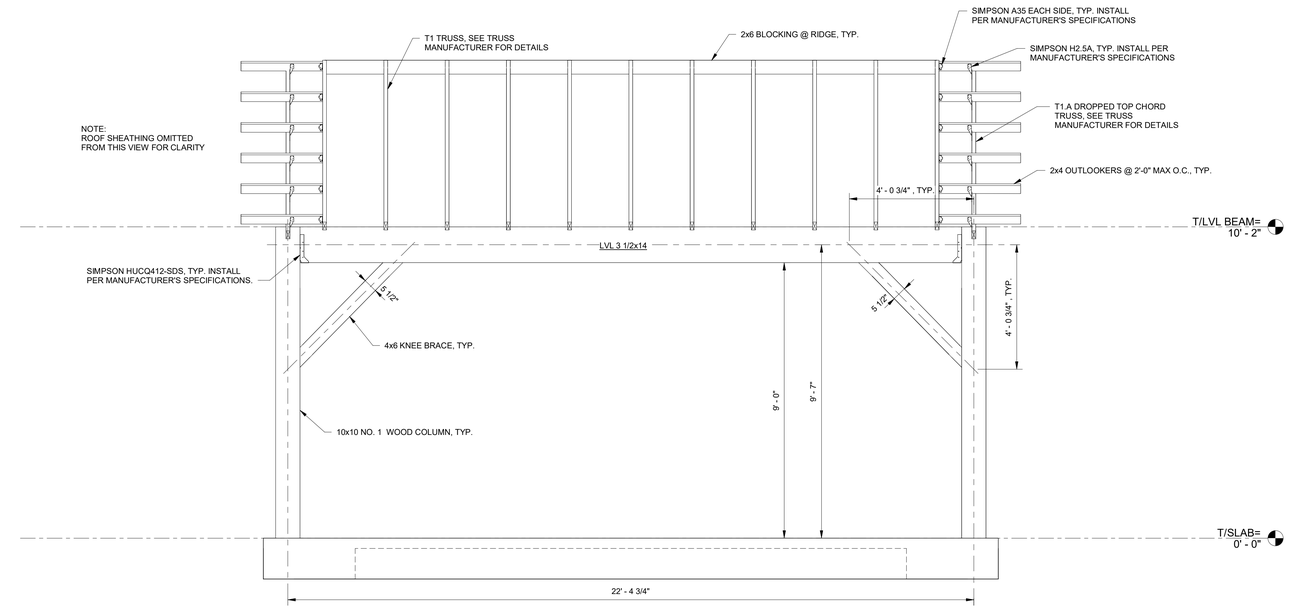
Drawing Name: **FOUNDATION AND FRAMING PLAN**

Drawing No: **S102**

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1 S103-A
1/2" = 1'-0"



2 S103-B
1/2" = 1'-0"

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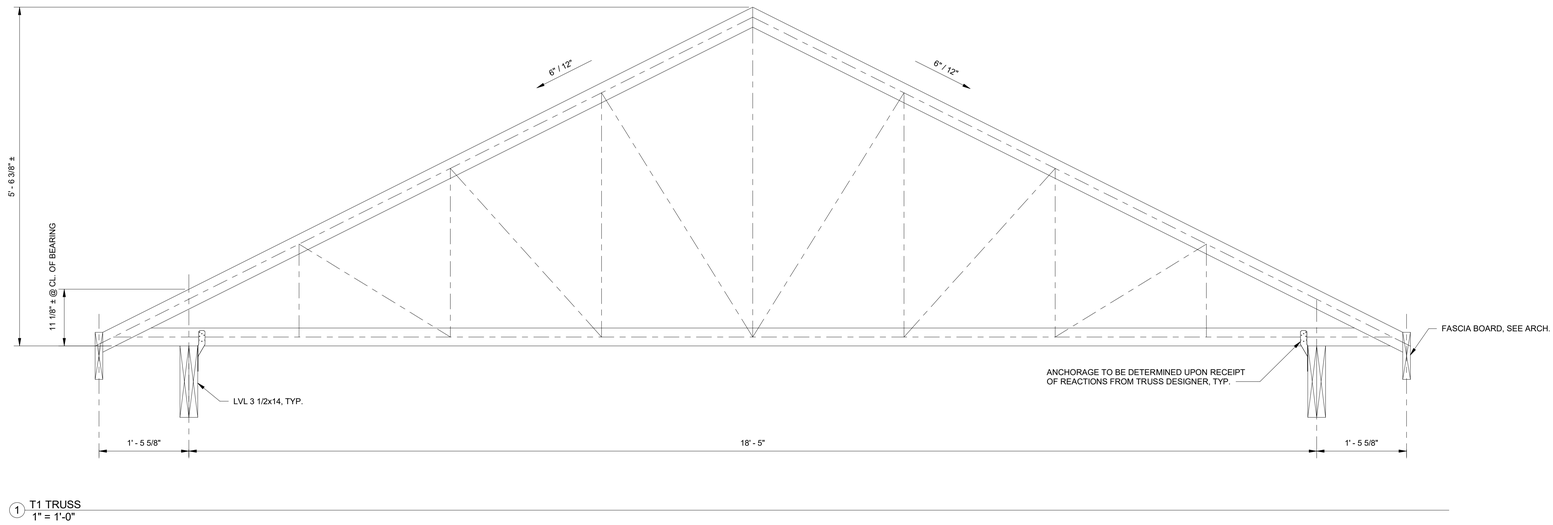
Revision No (if any): Revision Date:

Project No: 2024-081
Current Date: 10/30/24

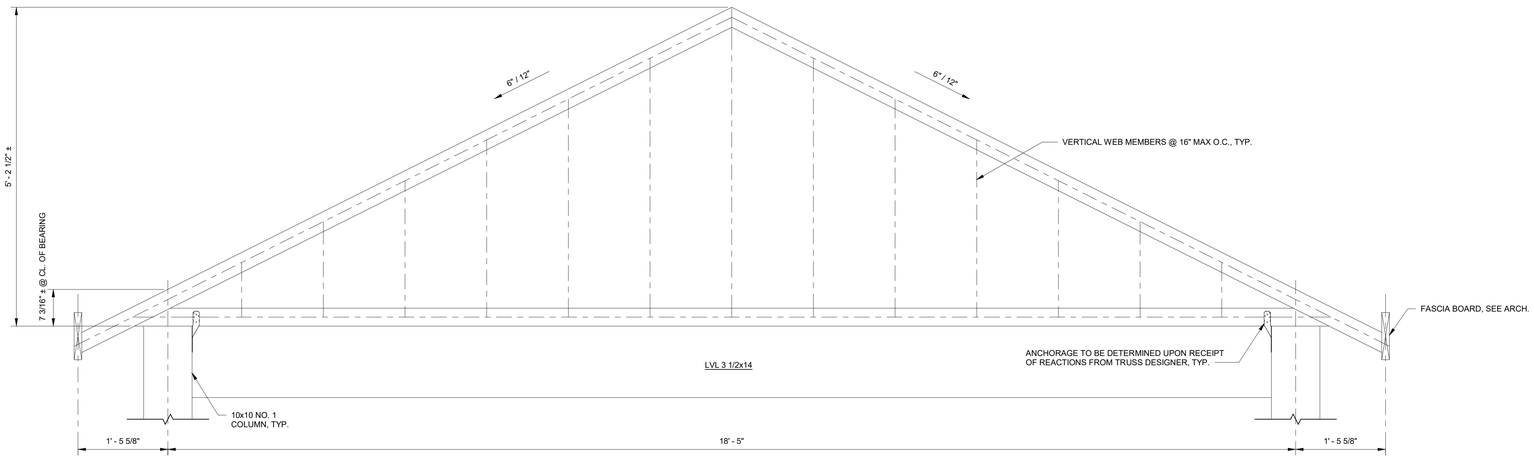
Drawing Name:
BUILDING ELEVATIONS

Drawing No:
S103

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1 T1 TRUSS
1" = 1'-0"



2 T1-A DROPPED TOP CHORD TRUSS
1" = 1'-0"

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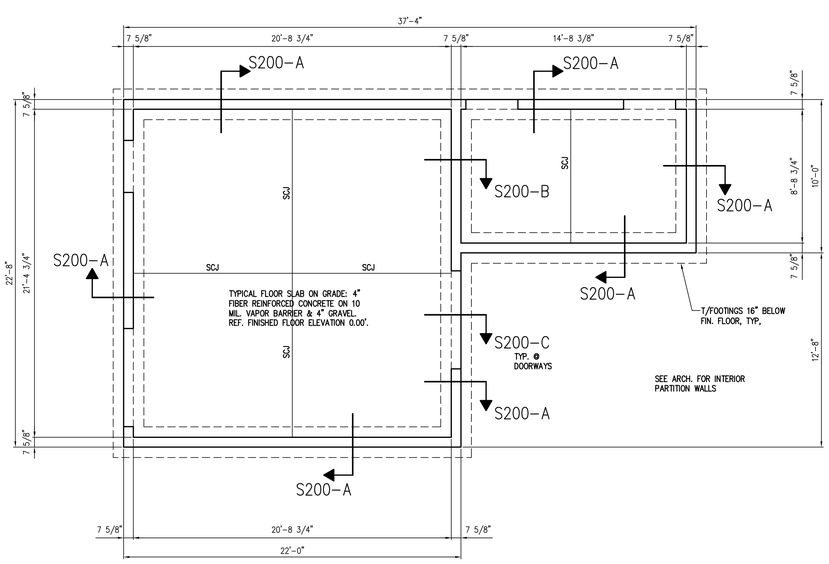
Revision No (if any): Revision Date:

Project No: 2024-081
Current Date: 10/30/24

Drawing Name:
TRUSS DIAGRAMS

Drawing No:
S104

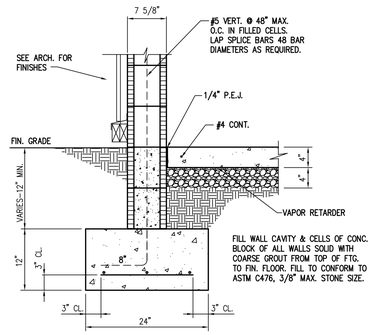
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SEE REINFORCED CONCRETE GENERAL NOTES AND FLOOR JOIST DETAILS ON SHEET S101

PUMP HOUSE FOUNDATION AND FIRST FLOOR SLAB PLAN

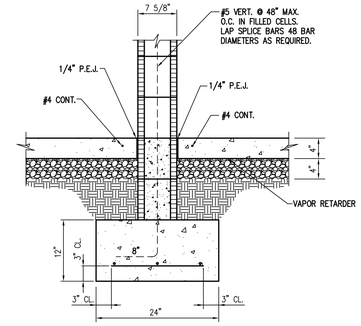
SCALE: 1/4" = 1'-0"



TYPICAL CONT. WALL FOOTING TO BE 24" WIDE x 12" DEEP WITH 3-#5 CONT. 3" CL. FROM BOTT. OF FTG. & #3 TRANSVERSE @ 36" O.C. CONTINUE WALL FTG. BARS THRU COLUMN FTGS. PROVIDE 3-#5 x24 CORNER BARS @ CORNERS & INTER-SECTIONS WHERE NO COLUMN FTG. OCCURS.

S200-A

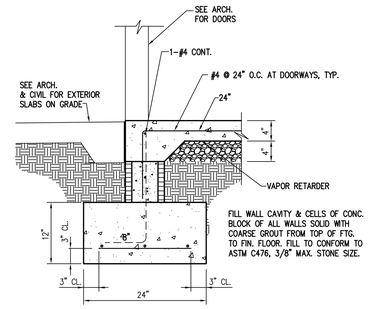
SCALE: 1" = 1'-0"



TYPICAL CONT. WALL FOOTING TO BE 24" WIDE x 12" DEEP WITH 3-#5 CONT. 3" CL. FROM BOTT. OF FTG. & #3 TRANSVERSE @ 36" O.C. CONTINUE WALL FTG. BARS THRU COLUMN FTGS. PROVIDE 3-#5 x24 CORNER BARS @ CORNERS & INTER-SECTIONS WHERE NO COLUMN FTG. OCCURS.

S200-B

SCALE: 1" = 1'-0"



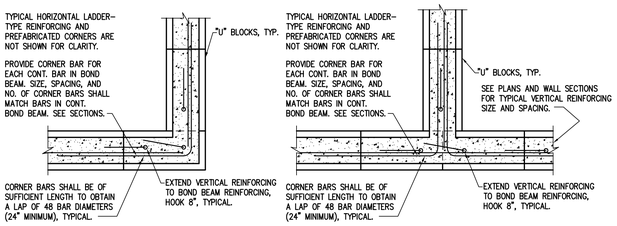
TYPICAL CONT. WALL FOOTING TO BE 24" WIDE x 12" DEEP WITH 3-#5 CONT. 3" CL. FROM BOTT. OF FTG. & #3 TRANSVERSE @ 36" O.C. CONTINUE WALL FTG. BARS THRU COLUMN FTGS. PROVIDE 3-#5 x24 CORNER BARS @ CORNERS & INTER-SECTIONS WHERE NO COLUMN FTG. OCCURS.

S200-C

SCALE: 1" = 1'-0"

REINFORCED C.M.U. GENERAL NOTES

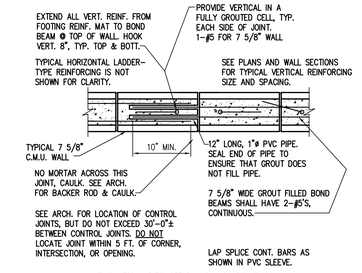
1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TMS 602-16 ("SPECIFICATION FOR MASONRY STRUCTURES"). ALL SUPERVISORY PERSONNEL HAVING ANY CONNECTION WITH THE MASONRY WORK SHALL CERTIFY THAT THEY HAVE FAMILIARIZED THEMSELVES WITH THESE PUBLICATIONS.
2. BLOCK SHALL BE LAID IN RUNNING BOND.
3. ALL FACE SHELLS OF BLOCKS SHALL BE COMPLETELY MORTARED IN BED JOINTS; HEAD JOINTS SHALL BE COMPLETELY MORTARED VERTICALLY FOR SAME WIDTH AS BED JOINTS. WHERE CELLS ARE TO BE FILLED WITH GROUT, FACE AND WEB SHELLS SHALL BE COMPLETELY MORTARED EXCEPT WHERE ADJACENT CELLS ARE TO BE FILLED. WHERE ADJACENT CELLS ARE TO BE FILLED, THE WEBS COMMON TO BOTH CELLS NEED NOT BE MORTARED.
4. CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C 90-15, LIGHT WEIGHT (105 PCF). UNIT COMPRESSIVE STRENGTH SHALL BE 2000 PSI, MINIMUM. MANUFACTURER SHALL PROVIDE A WRITTEN CERTIFICATION OF THE UNIT COMPRESSIVE STRENGTH WHICH SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140-15.
5. ALL BLOCK WORK BELOW THE FINISHED FLOOR ELEVATION SHALL BE LAID USING TYPE M MORTAR. ALL BLOCK WORK ABOVE THE FINISHED FLOOR ELEVATION SHALL BE LAID USING TYPE S OR TYPE M MORTAR. MORTAR SHALL COMPLY WITH ASTM C 270-14A.
6. ASSUMED F'_m FOR EXTERIOR WALLS = 2000 PSI @ 28 DAYS.
7. ASSUMED F'_m FOR INTERIOR WALLS = 2000 PSI @ 28 DAYS.
8. PROVIDE CONT. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
   - 8.A IN ALL 7 5/8" MASONRY WALLS HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE WITH 2-CONT. W1.7 (9 GA.) WIRES WITH W1.7 (9 GA.) CROSS TIES @ 16" O.C.
   - 8.B HORIZONTAL JOINT REINFORCING SHALL COMPLY WITH ASTM A951 - 16 AND SHALL BE HOT DIP GALVANIZED PER ASTM A153 - 16.
   - 8.C. LAP SPLICE ALL JOINT REINFORCING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. USE PREFABRICATED SECTIONS AT INTERSECTIONS AND CORNERS. DO NOT CUT OR BEND.
9. ALL CELLS AND VOIDS NOTED AS FILLED SHALL BE FILLED SOLID WITH GROUT. PROVIDE GROUT THAT:
   - 9.A. CONFORMS TO MATERIAL REQUIREMENTS OF ASTM C476-LATEST EDITION.
   - 9.B. HAS A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS (TESTED PER ASTM C1019).
   - 9.C. HAS A SLUMP FLOW OF 8 IN TO 11 IN AS DETERMINED BY ASTM C143
   - 9.D. AND HAS A VISUAL STABILITY INDEX (VSI) LESS THAN OR EQUAL TO 1 AS DETERMINED IN ACCORDANCE WITH ASTM C1611/C1611M.
   - 9.E. INCLUDES COARSE AGGREGATE NOT EXCEEDING 3/8" IN DIMENSION.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
11. PROVIDE A CONTINUOUS GROUT FILLED BOND BEAM (WITH 2-CONTINUOUS #5'S) AT 8'-0" MAXIMUM ON CENTER VERTICALLY IN FULL HEIGHT OF ALL 7 5/8" REINFORCED MASONRY WALLS.
12. PROVIDE A CONTINUOUS GROUT FILLED BOND BEAM (WITH 2-CONTINUOUS #5'S) AT THE TOPS OF ALL 7 5/8" MASONRY WALLS.
13. PROVIDE KNOCK-OUT BLOCKS FOR BOND BEAMS WHERE SHOWN OR NOTED. PROVIDE U-BLOCKS FOR BOND BEAMS IN ALL OTHER WALLS.
14. VERTICAL WALL REINFORCING IN CENTER OF FULLY GROUTED CELLS WILL BE REQUIRED AT:
   - 14.A SPACINGS SHOWN ON PLANS & DETAILS.
   - 14.B IN EACH OF 3 FILLED CELLS AT ALL CORNERS AND INTERSECTIONS (SEE ASSOC. DETAILS, THIS SHEET)
   - 14.C IN FILLED CELLS ON EA. SIDE OF ALL OPENINGS (AS INDICATED IN LINTEL SCHEDULE)
   - 14.D IN FILLED CELLS ON EACH SIDE OF EACH INTERRUPTING COLUMN (SEE ASSOC. DETAILS, THIS SHEET)
   - 14.E IN FILLED CELLS ON EACH SIDE OF EACH EXPANSION/CONTROL JOINT (SEE ASSOC. DETAILS, THIS SHEET)
   - 14.F IN FILLED CELL AT EACH 'FREE END' OF EACH WALL.
15. EXTEND ALL VERTICALS FROM FOOTING MAT TO TOP OF WALL. SEE SECTIONS & DETAILS. LAP SPLICE VERTICALS 48 BAR DIAMETERS AS REQUIRED. PROVIDE 12" LONG, 90° HOOKS @ FOUNDATION MAT & T/WALL BOND BEAM, TYPICAL ALL VERTICALS.
16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SHORING FOR WALLS DURING CONSTRUCTION.
17. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. SHOW WALL STEEL IN PLAN & ELEVATION. INDICATE CONTROL JOINT LOCATIONS - COORDINATE WITH ARCHITECTURAL DRAWINGS. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.



TYPICAL CORNER — TYPICAL INTERSECTION

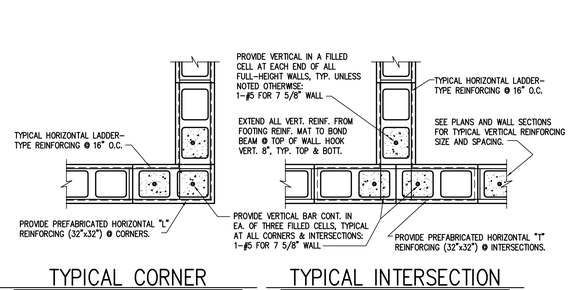
WALL THICKNESS VARIES, SEE PLANS AND ARCH DWGS.

PLAN DETAILS @ BOND BEAM INTERSECTIONS



WALL THICKNESS VARIES, SEE PLANS AND ARCH DWGS.

TYP. EXPANSION/CONTROL JOINT AT CONTINUOUS BOND BEAM



TYPICAL CORNER — TYPICAL INTERSECTION

WALL THICKNESS VARIES, SEE PLANS AND ARCH DWGS.

PLAN DETAILS @ WALL INTERSECTIONS

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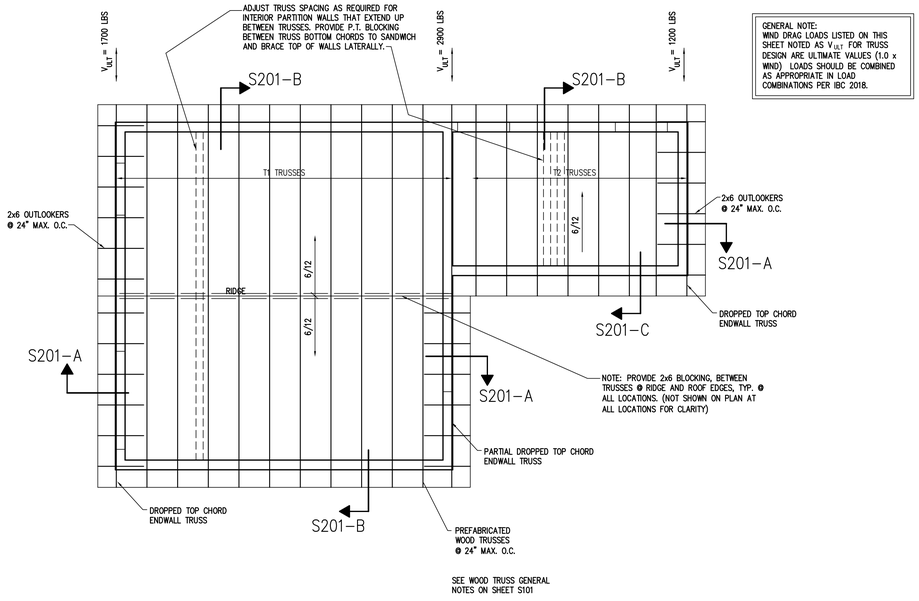
Revision No (if any): Revision Date:

Project No: 2024-081 Current Date: 10/30/24

Drawing Name: PUMP HOUSE FOUNDATION PLAN AND SECTIONS

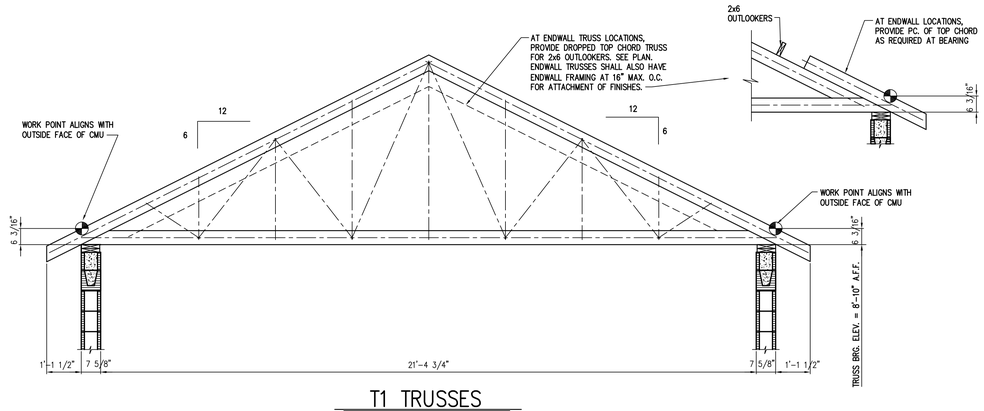
Drawing No: S200

Issued

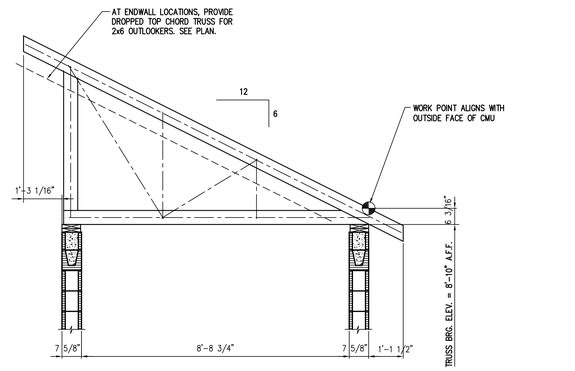


GENERAL NOTE:
WIND DRAG LOADS LISTED ON THIS SHEET NOTED AS V_{ULT} FOR TRUSS DESIGN ARE ULTIMATE VALUES (1.0 x WIND) LOADS SHOULD BE COMBINED AS APPROPRIATE IN LOAD COMBINATIONS PER IBC 2018.

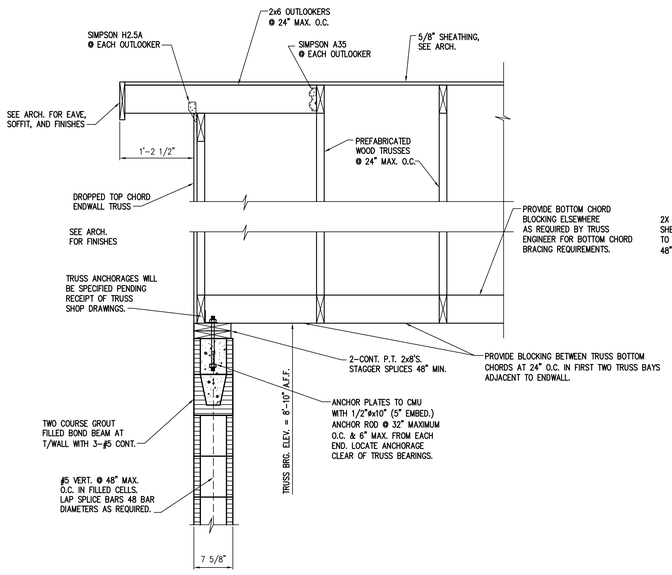
PUMP HOUSE ROOF PLAN
SCALE: 1/4" = 1'-0"



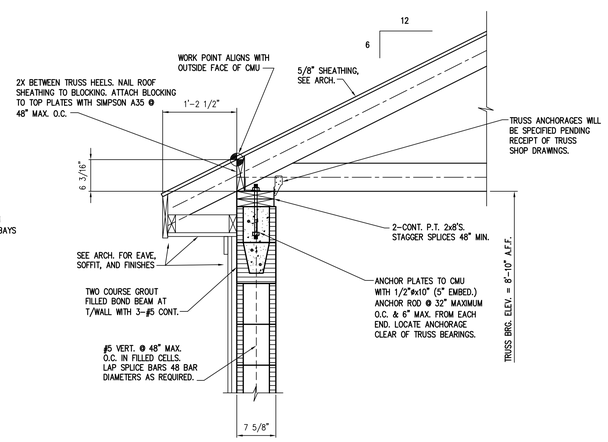
T1 TRUSSES
SCALE: 1/2" = 1'-0"



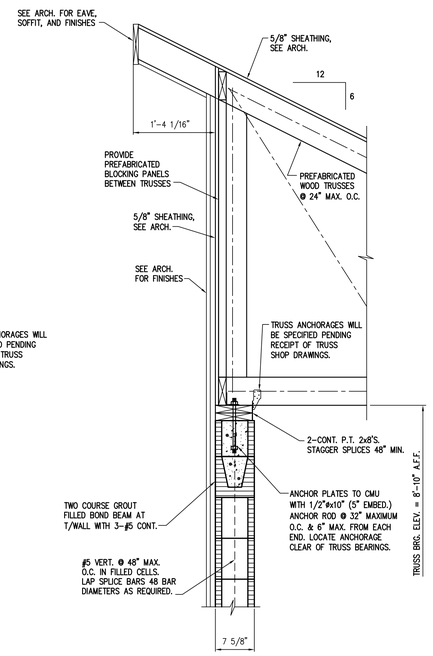
T2 TRUSSES
SCALE: 1/2" = 1'-0"



S201-A
SCALE: 1" = 1'-0"

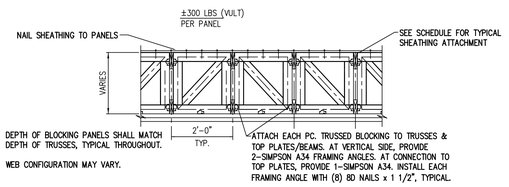


S201-B
SCALE: 1" = 1'-0"



S201-C
SCALE: 1" = 1'-0"

THIS BRACING DOES NOT REPLACE ANY BRACING ASSOCIATED WITH THE TRUSS ENGINEER'S DESIGN. REFERENCE TRUSS SHOP DRAWINGS FOR ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR TRUSS STABILITY.



TYPICAL PREFABRICATED TRUSSED BLOCKING ELEVATION
SCALE: NONE

TYP. ROOF DECK FASTENING

1. SEE PLAN FOR ROOF PANEL ORIENTATION AND CONFIGURATION.
2. U.N.O., DIAPHRAGM NAILING SHALL BE 6" O.C. AT DIAPHRAGM EDGES, 6" O.C. @ PANEL EDGES, AND 12" O.C. AT INTERMEDIATE PANEL SUPPORTS 'IN THE FIELD' OF EACH PANEL. NAILS SHALL BE 10D NAILS WITH 1 1/2" PENETRATION INTO MAIN FRAMING MEMBERS.
3. PROVIDE BLOCKING AT ALL PANEL EDGES AT PORCHES & OVERHANGS. BLOCKING SHALL BE MINIMUM 2x AT ALL BLOCKED PANEL EDGES.

TYPICAL ROOF SHEATHING SCHEDULE

ROOF SHEATHING	PANEL EDGE NAILING (E.N.)	PANEL FIELD NAILING (F.N.)	NAILING AT ROOF DIAPHRAGM BOUNDARIES
5/8" WOOD PANEL	10D NAILS AT 6" O.C.	10D NAILS AT 12" O.C.	10D NAILS AT 6" O.C.

POWER DRIVEN NAILS SHALL BE .148" DIAMETER AND A MINIMUM OF 2 1/4" LONG.

WOOD PANELS SHALL BE RATED AS STRUCTURAL USE AND CONFORM TO DOC PS2, MINIMUM. PANELS SHALL HAVE AN EXPOSURE AND SPAN RATING SUITABLE FOR THEIR APPLICATION.

PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION ACROSS THE SUPPORTING FRAMING. FASTENERS SHALL PENETRATE FRAMING BY 1 1/2" MIN. NAILS SHALL BE AT LEAST 3/8" FROM PANEL EDGES. STAGGER NAILS ON ADJACENT PANEL EDGES BEING FASTENED TO THE SAME SUPPORTING MEMBER. PLYWOOD CLIPS SHALL BE PROVIDED AT UNBLOCKED EDGES OF ROOF PANELS.

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Seal:

GEORGIA REGISTERED No. PE003000 STRUCTURAL ENGINEER MATTHEW N. ELLIS

10.30.24
PE-Tech, Inc. COA#PET003000
COA Expiration: 6.30.2026

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PTech

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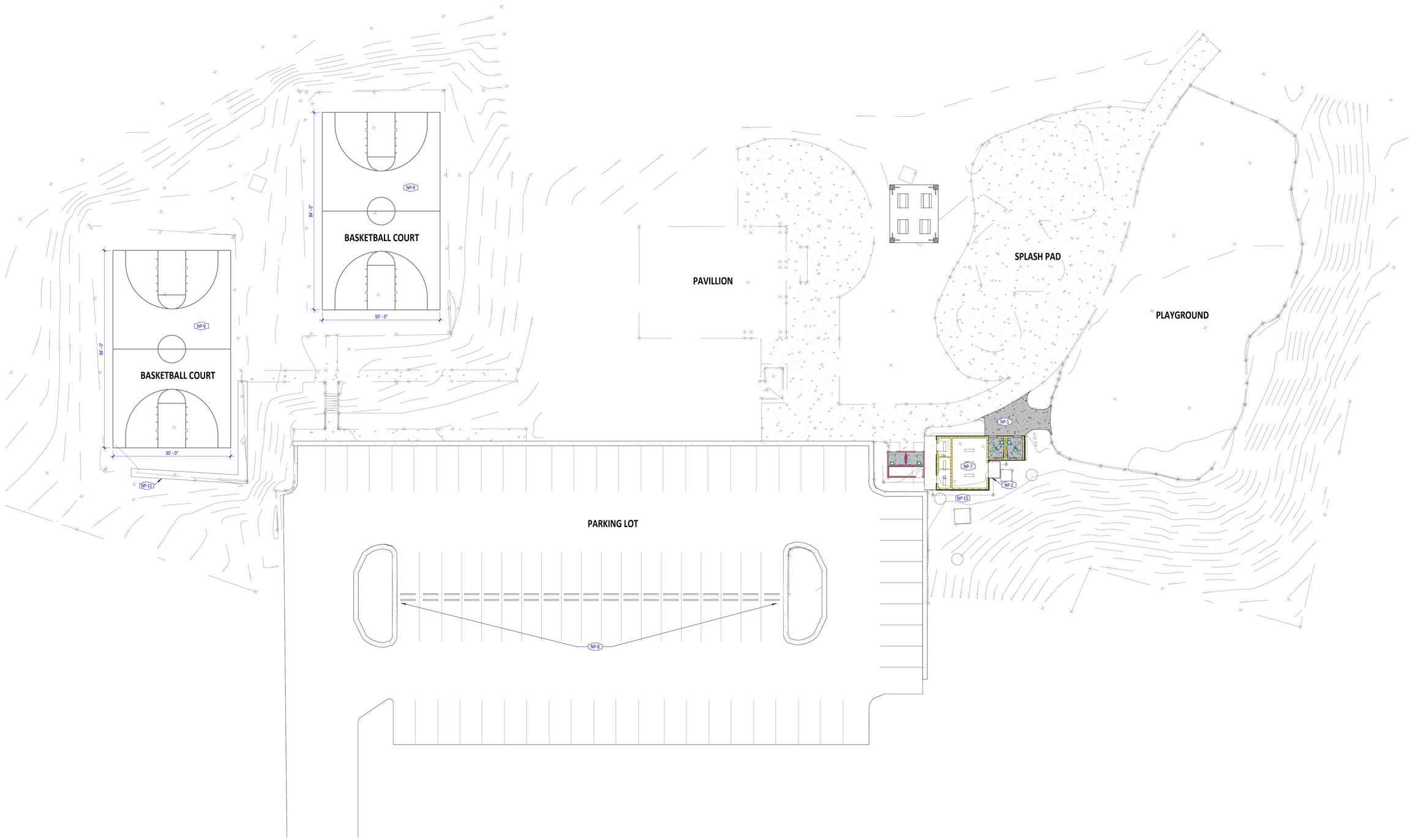
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Project Status: ISSUED FOR PERMIT
Revision No (if any): Revision Date:
Project No: 2024-081
Current Date: 10/30/24
Drawing Name: **PUMP HOUSE ROOF FRAMING PLAN AND SECTIONS**
Drawing No: **S201**

Plotted:

KEYNOTES - NEW WORK - FLOOR PLANS

NOTE	DESCRIPTION
NP-1	PROVIDE NEW CONCRETE POUR TO CREATE A PATHWAY THAT INTEGRATES THE RESTROOMS WITH THE MAIN PATH
NP-2	PROVIDE 5' 0" X 7' 0" CONCRETE PAD
NP-7	PROVIDE NEW EXHAUST FAN WITH MOTOR
NP-8	PROVIDE WHEEL STOPS AT ALL INTERIOR PARKING SPOTS. REFER CIVIL FOR DETAIL.
NP-9	REMOVE SURFACE AT (2) EXISTING BASKETBALL COURTS. REGRADE AND RESURFACE BOTH COURTS. REF. CIVIL.
NP-11	REFER CIVIL FOR EXTENT OF DRAINAGE IN THIS AREA
NP-15	EXISTING PUMP HOUSE TO BE DISCONNECTED AND RELOCATED DURING CONSTRUCTION. COORDINATE WITH SPLASH PAD CONTRACTOR AND OWNER. REFER TO ELECTRIAL FOR ELECTRICAL DISCONNECTION.



1 SITE PLAN
AS101 1/16" = 1'-0"

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BRANDON A. FAIRBANKS
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Project Status:

Revision No (if any): Revision Date:

Project No: 2024-081 Current Date:

Drawing Name: **SITE PLAN**

Drawing No: **AS101**

Plotted: 10/31/2024 12:23:24 PM

WALL TYPES

C	CMU (MAY HAVE FURRING)
G	GYPSUM BOARD WITH METAL STUDS
S	SHAFTWALL
W	GYPSUM BOARD WITH WOOD STUDS

G 3 A 0
- WALL TYPE
- STUD/CMU WIDTH
- WALL TYPE MODIFIER
- FIRE RATING OR PARTITION HEIGHT

WALL HATCH PATTERN LEGEND

- NON-RATED METAL STUD PARTITION
- NON RATED MASONRY
- NON-RATED WOOD STUD PARTITION

STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x flat
2		2 1/2"	
3		3 5/8"	2x3
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

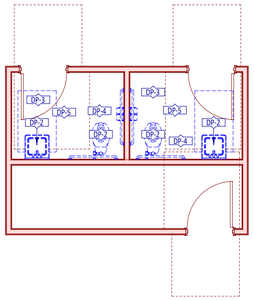
WALL TYPE MODIFIER

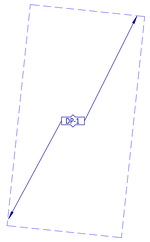
A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
E. 5/8" GYP BD - EXPOSED SIDE ONLY.
F. NO SHEATHING ON CMU.
G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

FIRE RATING OR PARTITION HEIGHT

0	NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
F	NON-RATED; FULL HEIGHT TO STRUCTURE.
S	NON-RATED SMOKE PARTITION
B	1 HOUR RATED FIRE/SMOKE BARRIER
C	2 HOUR RATED FIRE/SMOKE BARRIER
1	1 HOUR RATED FIRE PARTITION
2	2 HOUR RATED FIRE BARRIER
H	EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
X	SEE BLDG SECTION/ELEVATION FOR HEIGHT.

Wall Type Legend
1 1/2" = 1'-0"







Ceiling Pw
Plywood Ceiling
Paint P-4

Open to structure above
Paint Structure P-_

LIGHTING

LIGHTING - RECESSED FIXTURE

Note:
Reflected ceiling plan(s) on architectural drawings often do NOT indicate all ceiling-mounted items. See drawings of other disciplines for additional items. Coordinate installation of all required ceiling items.

Color shades used on reflected ceiling plans and legends are provided to help the Contractor identify types of ceilings. These shades do NOT indicate finish colors.

LEGEND - REFLECTED CEILING PLAN
1/8" = 1'-0"

KEYNOTES - DEMOLITION - FLOOR PLANS

NOTE	DESCRIPTION
DP-1	**DEMOLISH EXG. PUMP ENCLOSURE**
DP-2	**REMOVE EXG. FIXTURES.**
DP-3	**REMOVE EXISTING WOOD BASE TRIM.**
DP-4	**REMOVE EXISTING TOILET ACCESSORIES.**
DP-5	**REMOVE EXISTING FLOOR DRAIN COVER PLATE.**

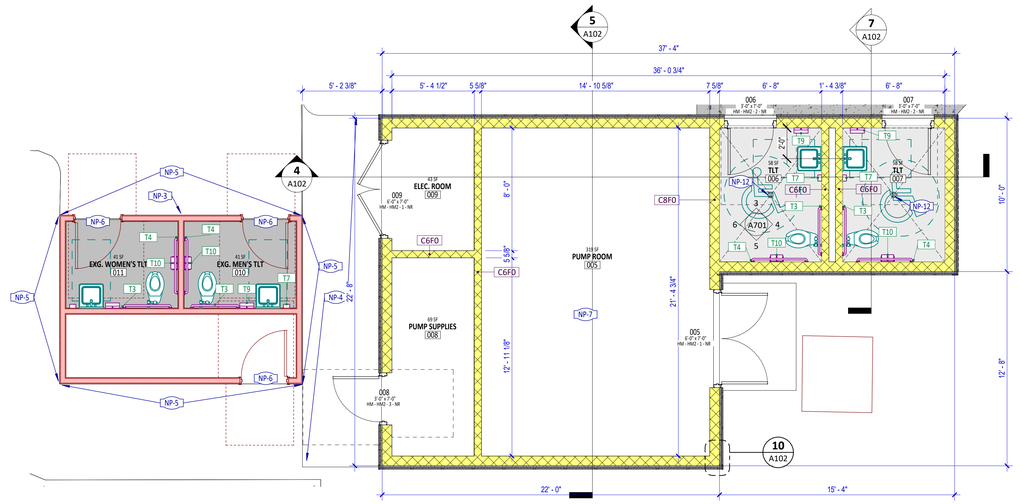
KEYNOTES - NEW WORK - FLOOR PLANS

NOTE	DESCRIPTION
NP-3	**REPLACE EXISTING SHOWER HEAD. REF. PLUMBING.**
NP-4	**PROVIDE NEW CONCRETE SLAB. BROOM FINISH.**
NP-5	**PATCH ALL PENETRATIONS, HOLES, CLEAN AND REPAINT. MATCH EXISTING COLOR**
NP-6	**PREP AND PAINT EXISTING DOORS AND JAMBS. MATCH EXISTING COLORS. ROLLER FINISH.**
NP-7	**PROVIDE NEW EXHAUST FAN WITH MOTOR**
NP-12	**PROVIDE NEW FLOOR DRAIN. REF. PLUMBING.**

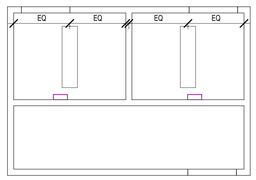
C402.1.2 Equipment buildings.

Buildings that comply with the following shall be exempt from the *building thermal envelope* provisions of this code:

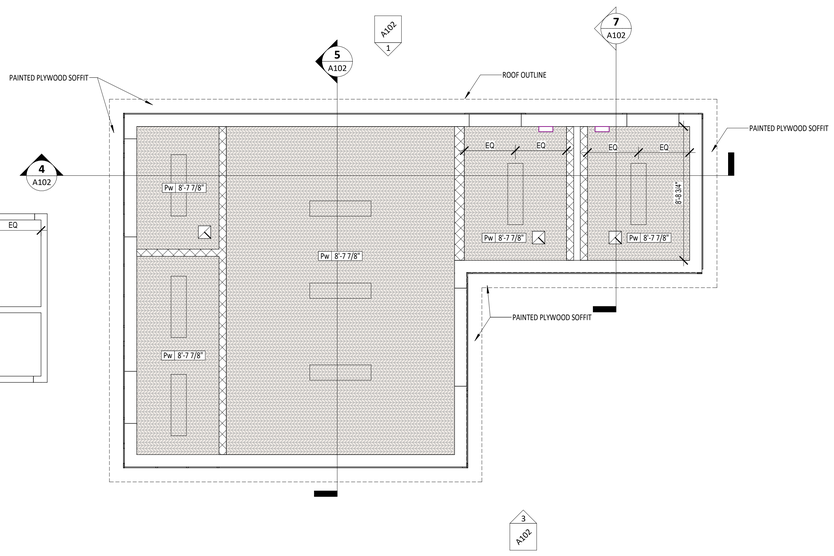
1. Are separate buildings with floor area not more than 500 square feet (50 m^2).
2. Are intended to house electronic equipment with installed equipment power totaling not less than 7 watts per square foot (75 W/m2) and not intended for human occupancy.
3. Have a heating system capacity not greater than (17,000 Btu/hr) (5 kW) and a heating thermostat set point that is restricted to not more than 50°F (10°C).
4. Have an average wall and roof *U*-factor less than 0.200 in *Climate Zones* 1 through 5 and less than 0.120 in *Climate Zones* 6 through 8.
5. Comply with the roof solar reflectance and thermal emittance provisions for *Climate Zone* 1.



1 | PUMP HOUSE FLOOR PLAN
A101 | 1/4" = 1'-0"

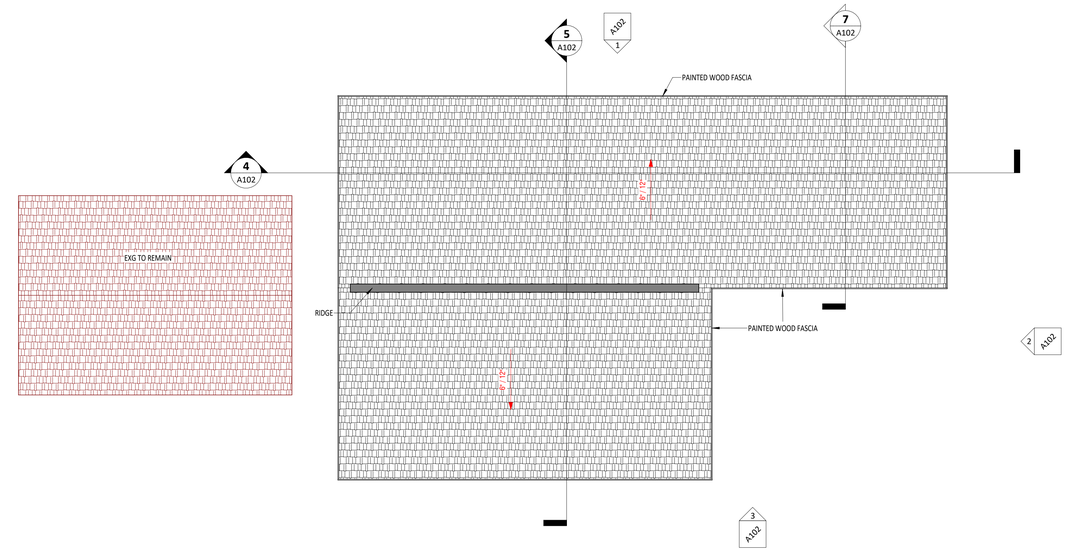


NOTE: REMOVE EXISTING LIGHTING AND REPAIR CEILING.



2 | EXISTING RESTROOM FLOOR PLAN - DEMO
A101 | 1/4" = 1'-0"

3 | PUMP HOUSE CEILING
A101 | 1/4" = 1'-0"



4 | PUMP HOUSE ROOF PLAN
A101 | 1/4" = 1'-0"

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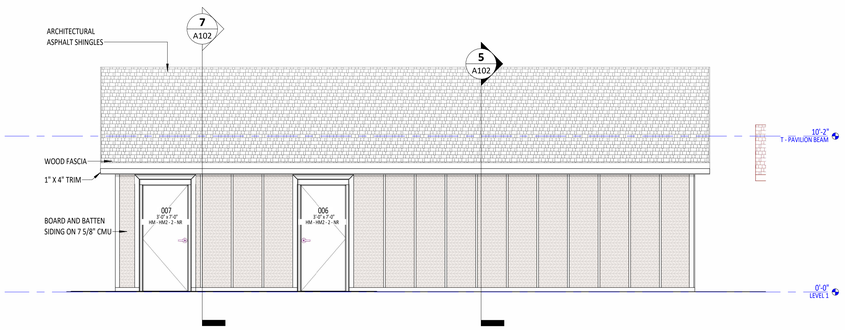
Revision No (if any): Revision Date:

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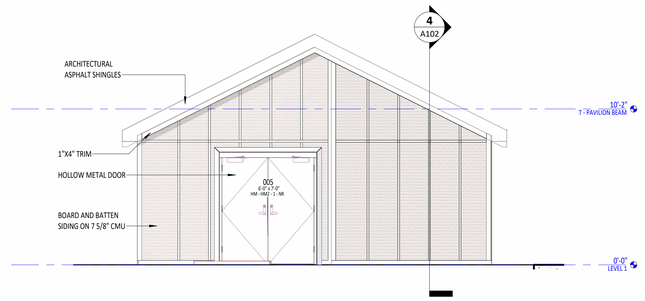
Drawing Name:
PUMP HOUSE PLANS AND DOOR DETAILS

Drawing No:
A101

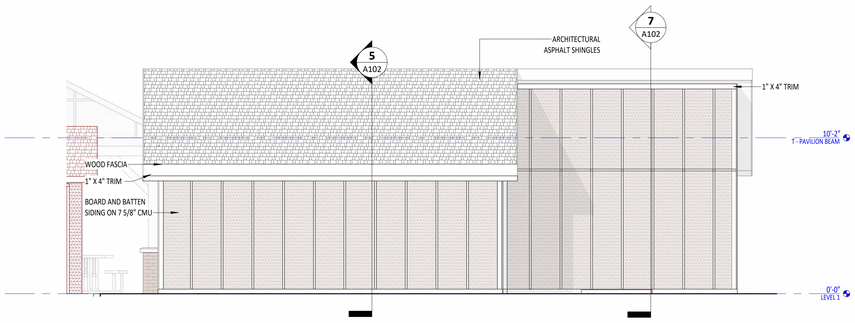
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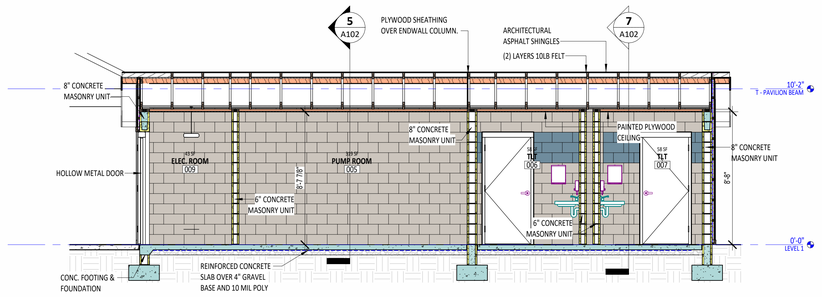
1 | PUMP HOUSE ELEVATION 01
A102 | 1/4" = 1'-0"



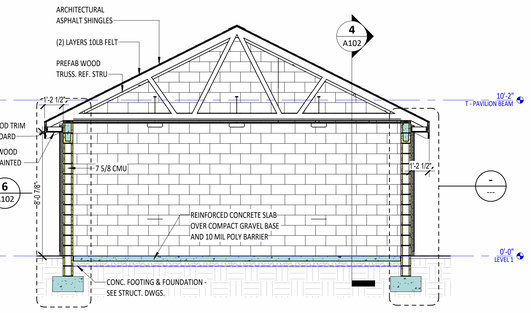
2 | PUMP HOUSE ELEVATION 02
A102 | 1/4" = 1'-0"



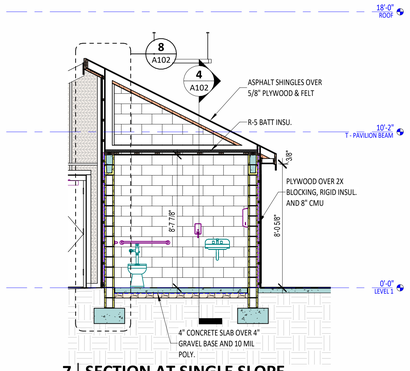
3 | PUMP HOUSE ELEVATION 03
A102 | 1/4" = 1'-0"



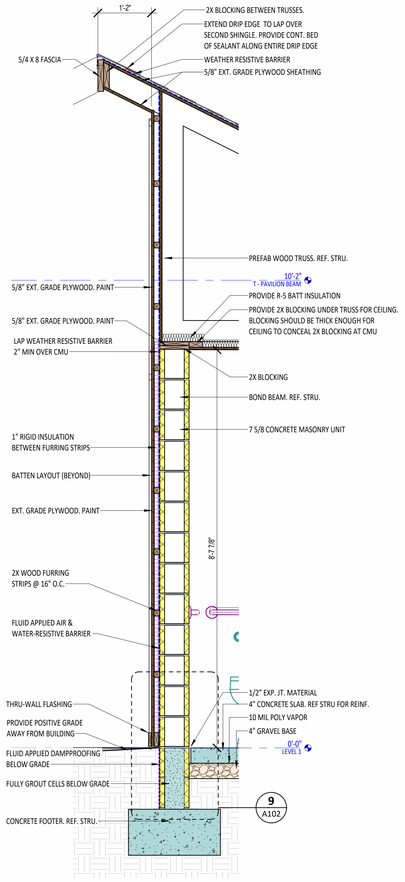
4 | PUMP HOUSE SECTION 01
A102 | 1/4" = 1'-0"



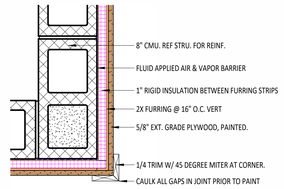
5 | PUMP HOUSE SECTION 02
A102 | 1/4" = 1'-0"



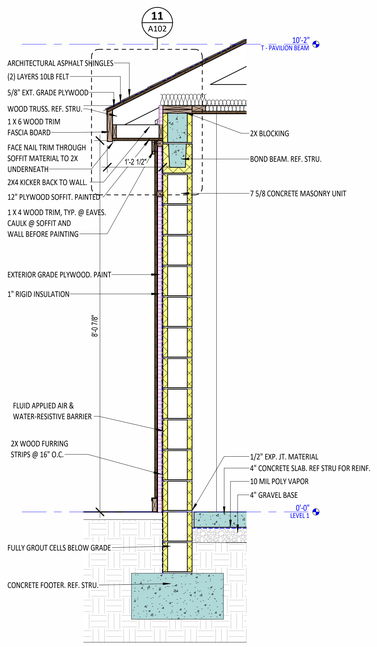
7 | SECTION AT SINGLE SLOPE
A102 | 1/4" = 1'-0"



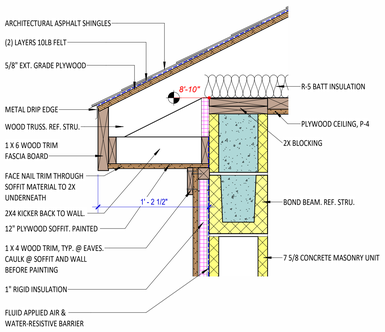
8 | PUMP HOUSE HIGH EAVE
A102 | 3/4" = 1'-0"



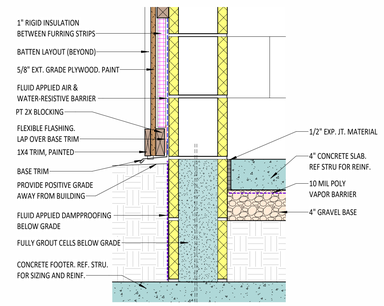
10 | PUMP HOUSE OUTSIDE CORNER DETAIL
A102 | 1 1/2" = 1'-0"



6 | PUMP HOUSE WALL SECTION
A102 | 3/4" = 1'-0"



11 | PUMP HOUSE WALL SECTION - Callout 1
A102 | 1 1/2" = 1'-0"



9 | PUMP HOUSE HIGH EAVE - Callout 1
A102 | 1 1/2" = 1'-0"

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Project Status:

Revision No (if any): Revision Date:

Project No: Current Date:
2024-081

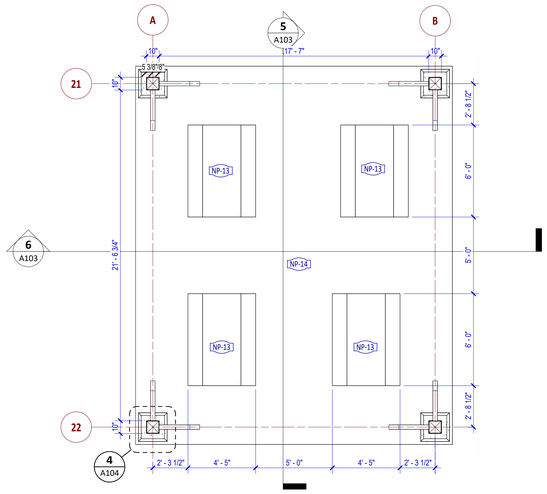
Drawing Name:
PUMP HOUSE - ELEVATIONS AND SECTIONS

Drawing No:
A102

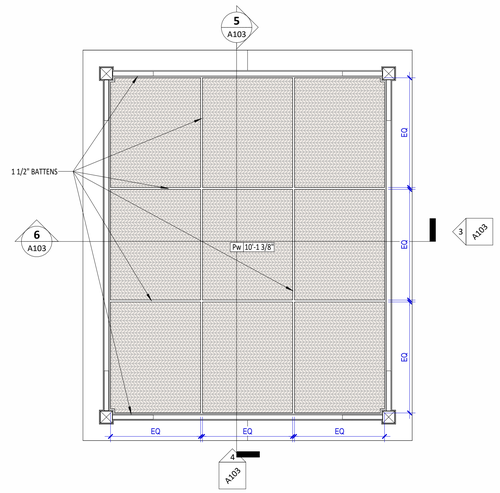
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KEYNOTES - NEW WORK - FLOOR PLANS

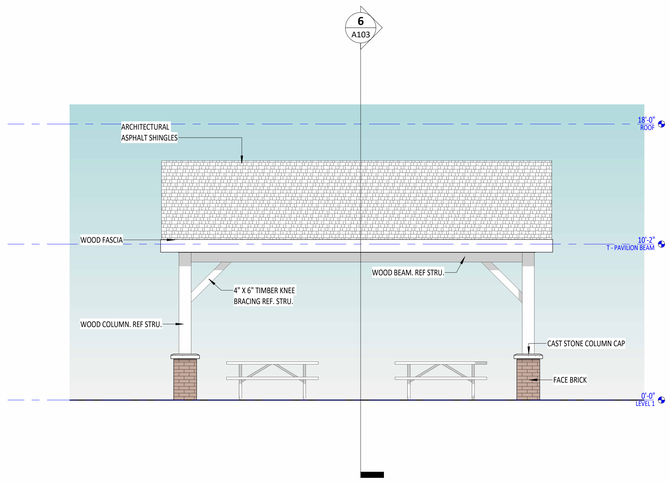
NOTE	DESCRIPTION
NP-13	TABLE TO BE PROVIDED BY OWNER. GC TO ASSEMBLE AND BOLT TO SLAB.
NP-14	4" CONCRETE SLAB OVER COMPACT GRAVEL BASE; REF. STRU. FOR REINF. AND CONTROL JOINT SPACING



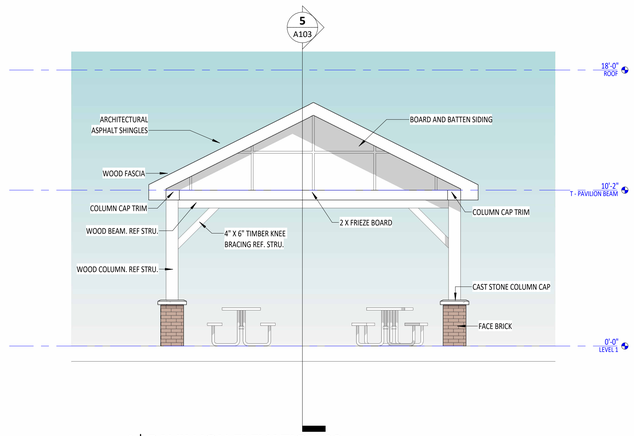
1 | PAVILLION PLAN
A103 | 1/4" = 1'-0"



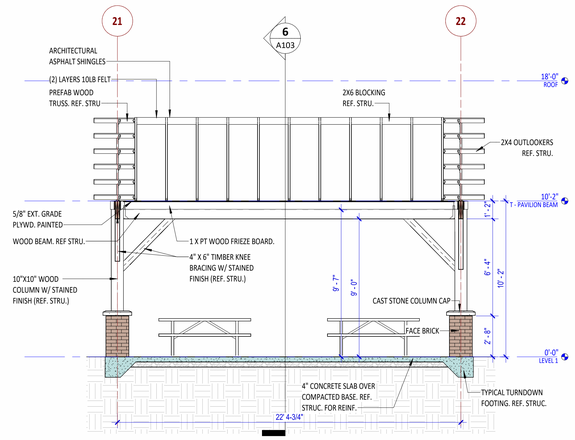
2 | LEVEL 1 CEILING
A103 | 1/4" = 1'-0"



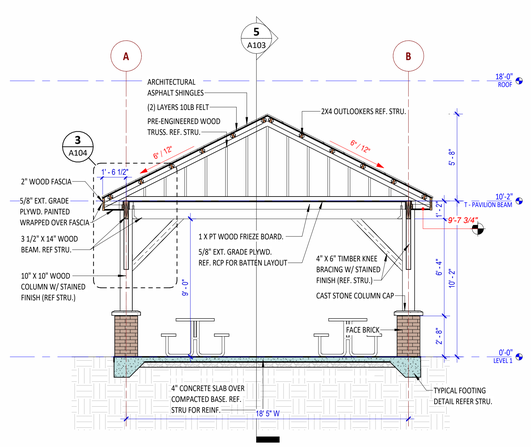
3 | PAVILLION ELEVATION 01
A103 | 1/4" = 1'-0"



4 | PAVILLION ELEVATION 02
A103 | 1/4" = 1'-0"



5 | Section 15
A103 | 1/4" = 1'-0"



6 | PAVILION SECTION 02
A103 | 1/4" = 1'-0"

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CERTIFICATE NO. 035888
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MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RENOVATION

3793 LOG CABIN DR, MACON, GA 31204-3753

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Project Status:

Revision No (if any): Revision Date:

Project No: 2024-081 Current Date:

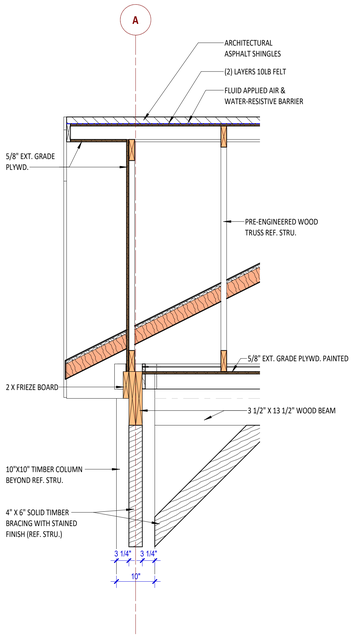
Drawing Name:

PAVILION PLAN ELEVATIONS AND SECTIONS

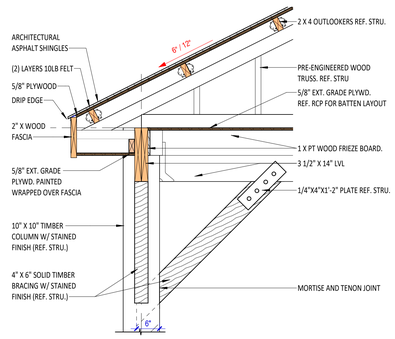
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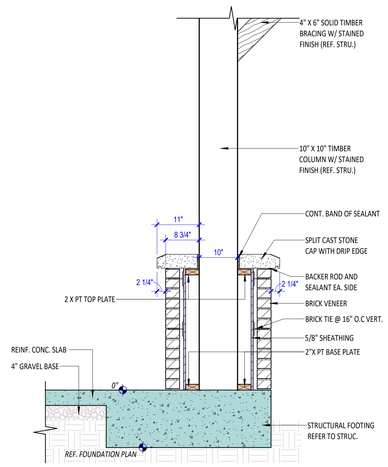
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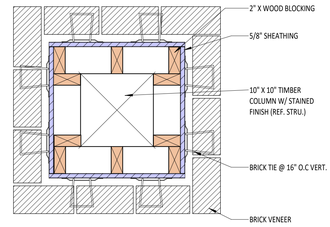
1 | ROOF DETAIL 1
A104 | 3/4" = 1'-0"



3 | ROOF DETAIL 2
A104 | 3/4" = 1'-0"



2 | TYPICAL COLUMN SECTION
A104 | 3/4" = 1'-0"



4 | COLUMN BASE PLAN DETAIL
A104 | 1 1/2" = 1'-0"

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Project Status:

Revision No (if any): Revision Date:

Project No: 2024-081 Current Date:

Drawing Name:

PAVILLION DETAILS

Drawing No:

A104

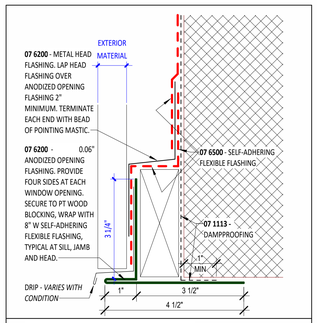
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FLASHING GENERAL NOTES

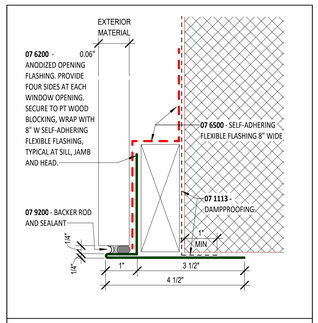
1. PROVIDE 2" LAP DAMS AT ALL OPENINGS AND TERMINATIONS.

2. LAPS BETWEEN PIECES OF METAL FLASHING SHOULD BE FULLY BEDDED IN SEALANT.

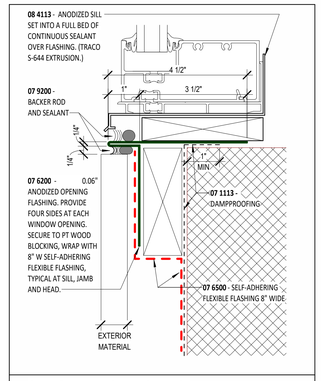
3. REMOVE TOP HEM FROM TOP PIECE OF FLASHING @ LAPS



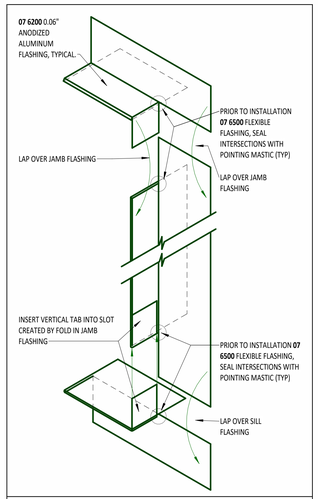
HEAD OPENING FLASHING



JAMB OPENING FLASHING

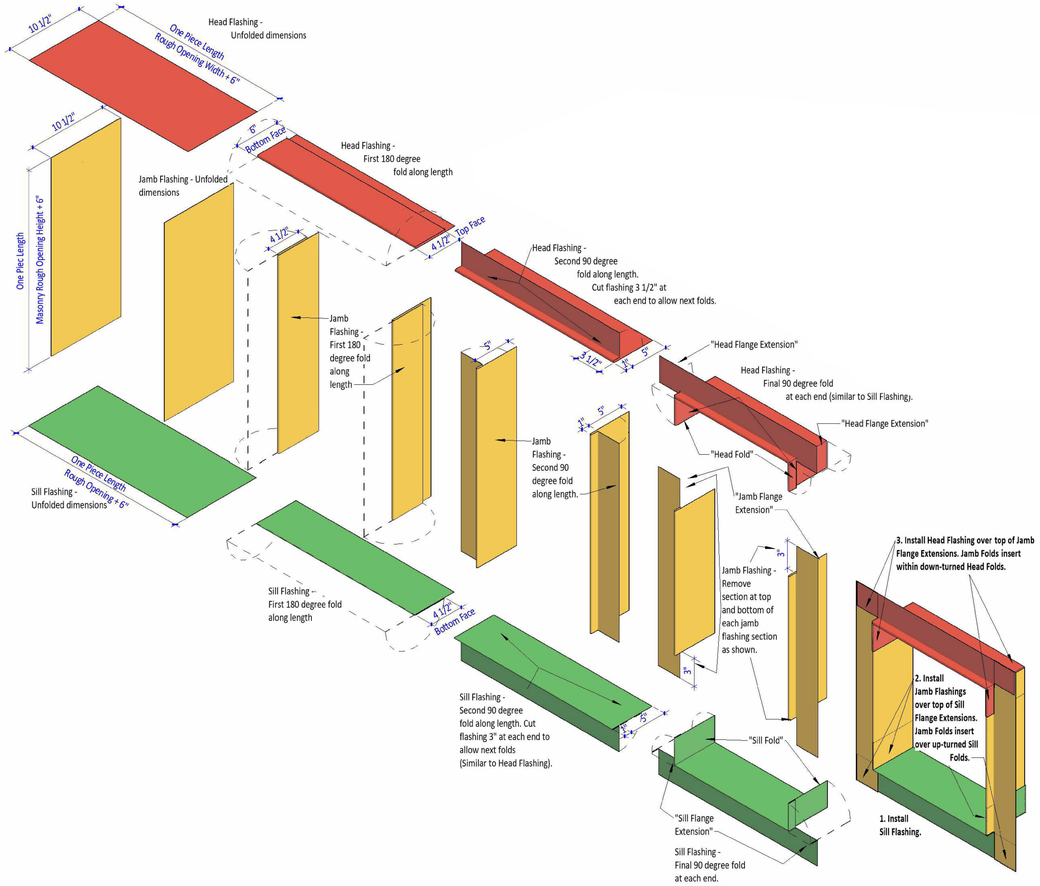


SILL OPENING FLASHING



OPENING FLASHING 3D

01 | OPENING FLASHING
A105 | 6" = 1'-0"



02 | OPENING FLASHING ASSEMBLY INSTALLATION ILLUSTRATED
A105 | 1 : 100

NOT TO SCALE

DOOR SCHEDULE

OPNG NO	Qnty	FROM ROOM	TO ROOM	Width	Height	Door Type	Frame Type	HW SET	Rated Opng	COMMENTS
005	Pair - Swinging	PUMP ROOM		6'-0"	7'-0"	HM	HM2	1	NR	16"X16" LOUVER IN EACH DOOR LEAF
006	Sngl - Swinging		TLT	3'-0"	7'-0"	HM	HM2	2	NR	
007	Sngl - Swinging		TLT	3'-0"	7'-0"	HM	HM2	2	NR	
008	Sngl - Swinging	PUMP SUPPLIES		3'-0"	7'-0"	HM	HM2	3	NR	14"X14" LOUVER IN DOOR
009	Pair - Swinging	ELEC. ROOM		6'-0"	7'-0"	HM	HM2	1	NR	14"X14" LOUVER IN ONE OF THE DOORS

Hardware Set#: 1 Storage - Pair Exterior

Qty	UOM	Item Type
6	EA	Hinge - butt
1	EA	Storage Lockset
2	EA	Weatherstripping
1	EA	Manual Flush Bolts

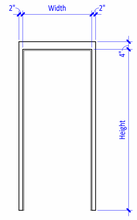
Hardware Set#: 2 Public Restroom

Qty	UOM	Item Type
3	EA	Hinge - butt
1	EA	Door Closer
1	EA	Deadbolt
1	EA	Door Stop - Wall
1	EA	Pull Plate
1	EA	Push Plate
1	EA	Kick Plate

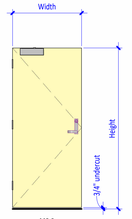
Hardware Set#: 3 Storage - Single Exterior

Qty	UOM	Item Type
3	EA	Hinge - butt
1	EA	Storage Lockset
1	EA	Wall Stop
1	EA	Deadbolt
1	EA	Weatherstripping

5 | Door hardware schedule
A105 | 1/8" = 1'-0"



HM2
HOLLOW METAL



HM
HOLLOW METAL

Notes:

Type WNG is always a rated door with fire glass. (100 in^2 max.) Provide metal glazing frame if reqd for rating.

At all other doors where a rating is reqd, provide fire glass in lieu of indicated safety glass. Provide metal glazing frame if reqd for rating.

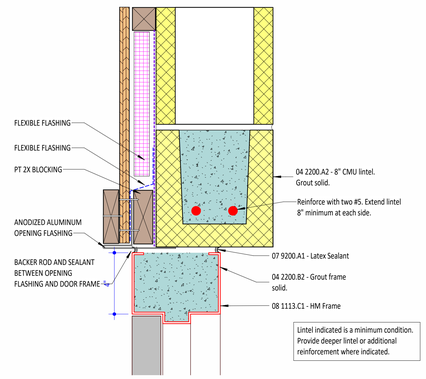
"V" indicates that dimension varies with door size.

"SG" indicates 6mm safety glass.

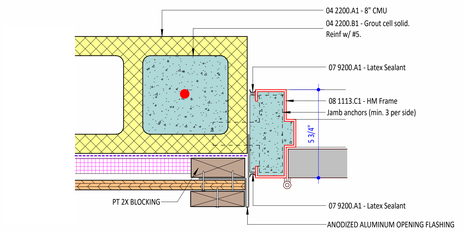
"FG" indicates fire glass.

HM Frame Types
3/8" = 1'-0"

Door Types
3/8" = 1'-0"



03 | Head CA - HM Door Frame (Typ at CMU) Copy 1
A105 | 3" = 1'-0"



04 | Jamb CA - HM Door Frame (Typ at CMU) Copy 1
A105 | 3" = 1'-0"

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Project Status:

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Project No: Current Date:
2024-081

Drawing Name:

DOOR SCHEDULE, DETAILS & OPENING FLASHING DETAILS

Drawing No:
A105

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Roppe #21; Tarkett RRS-XX-B (B=.080")
Burke 633; Roppe #22; Tarkett RRS-XX-C (B=1/8")



Provide edge strip wherever resilient flooring abuts concrete slab. Size to match flooring thickness (B).

1 | Resilient Edge Strip
A701 | 6" = 1'-0"

FINISHES - FLOORS

Floor Finish	Manufacturer	Style and Color	Image	Comments
CONC	TBD BY CONTRACTOR	CONTRACTOR TO SEAL CONCRETE SLAB WITH INDUSTRIAL SEALER THAT CAN WITHSTAND WATER AND HARSH CHEMICALS. COLOR: CLEAR		SEE SPECIFICATIONS. CONTRACTOR TO PREP SUBSTRATE AS RECOMMENDED BY THE MANUFACTURER

FINISHES - WALLS

Wall Finish	Manufacturer	Style and Color	Image	Comments
P-1	SHERWIN WILLIAMS	SW 7022 - ALPACA		FIELD PAINT
P-2	SHERWIN WILLIAMS	SW 9148 - SMOKY AZURITE		
P-3	SHERWIN WILLIAMS	SW 9168 - ELEPHANT EAR		DOOR PAINT - GLOSS FINISH
P-4	SHERWIN WILLIAMS	SW 7562 - ROMAN COLUMN		
WS-1	PPG	EBONY SRD - SRD-094 WOOD STAIN		

FINISHES - CEILING

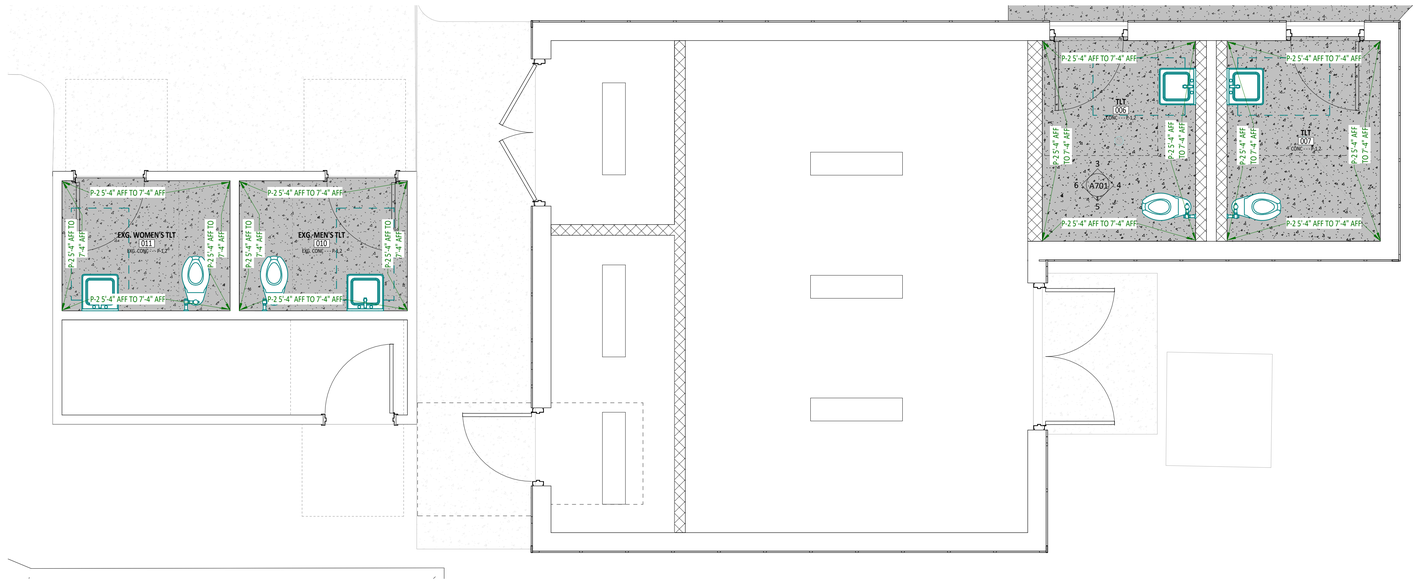
Ceiling Finish	Manufacturer	Style and Color	Image	Comments
P-4	SHERWIN WILLIAMS	SW 7007 CEILING BRIGHT WHITE		CEILING PAINT

ROOM SCHEDULE

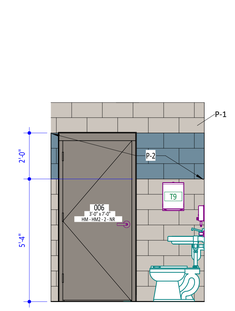
ROOM NUMBER	ROOM NAME	Floor Finish	Wall Finish	COMMENTS
006	TLT	CONC	P-1,2	SEE FINISH PLAN FOR PAINT LOCATIONS.
007	TLT	CONC	P-1,2	SEE FINISH PLAN FOR PAINT LOCATIONS.
010	EXG. MEN'S TLT	EXG. CONC	P-1,2	SEE FINISH PLAN FOR PAINT LOCATIONS.
011	EXG. WOMEN'S TLT	EXG. CONC	P-1,2	SEE FINISH PLAN FOR PAINT LOCATIONS.

TOILET ACCESSORY SCHEDULE

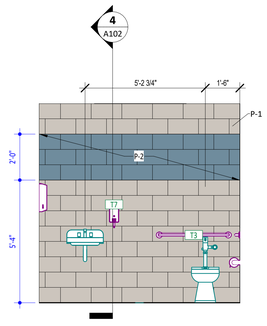
Type Mark	Item	Image	Description	Model
T3	36" Grab Bar		1 1/4" diameter, heavy-duty satin-finish stainless steel, concealed mounting.	ASI 3700 series, Bobrick B-5806, Bradley 832.
T4	42" Grab Bar		1 1/4" diameter, heavy-duty satin-finish stainless steel, concealed mounting.	ASI 3700 series, Bobrick B-5806, Bradley 832.
T7	Soap Dispenser		Surface-mtd, vertical, manual dispenser.	ASI 0347, Bobrick B-2111, Bradley 6562.
T9	Paper Towel Dispenser, surface-mounted.		Satin-finish stainless steel, dispenses 400 C-fold or 525 multi-fold, surface mounting.	ASI 0210, Bobrick B-262, Bradley 250-15.
T10	Toilet Paper Dispenser.		Dual-roll dispenser, cast aluminum, non-controlled delivery.	ASI 0264-1A, Bobrick B-2740, Bradley 5241-50.



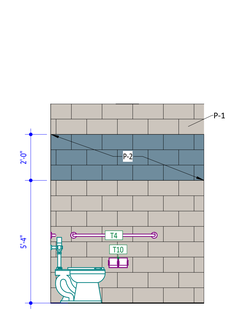
2 | PUMP HOUSE - FINISH PLAN
A701 | 3/8" = 1'-0"



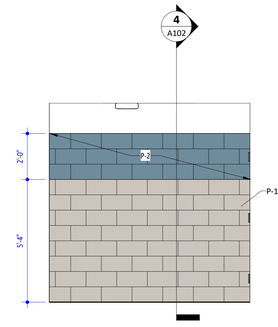
3 | 006 TLT - A
A701 | 3/8" = 1'-0"



4 | 006 TLT - B
A701 | 3/8" = 1'-0"



5 | 006 TLT - C
A701 | 3/8" = 1'-0"



6 | 006 TLT - D
A701 | 3/8" = 1'-0"

TOILET ACCESSORIES BY ROOM

ROOM NO.	ROOM NAME	TYPE MARK	DESCRIPTION	COUNT	O,C / C,C / O,O
006					
006	TLT	T3	36" Grab Bar	1	C,C
006	TLT	T4	42" Grab Bar	1	C,C
006	TLT	T7	Soap Dispenser	1	C,C
006	TLT	T9	Paper Towel Dispenser, surface-mounted.	1	C,C
006	TLT	T10	Toilet Paper Dispenser.	1	C,C
007					
007	TLT	T3	36" Grab Bar	1	C,C
007	TLT	T4	42" Grab Bar	1	C,C
007	TLT	T7	Soap Dispenser	1	C,C
007	TLT	T9	Paper Towel Dispenser, surface-mounted.	1	C,C
007	TLT	T10	Toilet Paper Dispenser.	1	C,C
010					
010	EXG. MEN'S TLT	T3	36" Grab Bar	1	C,C
010	EXG. MEN'S TLT	T4	42" Grab Bar	1	C,C
010	EXG. MEN'S TLT	T7	Soap Dispenser	1	C,C
010	EXG. MEN'S TLT	T9	Paper Towel Dispenser, surface-mounted.	1	C,C
010	EXG. MEN'S TLT	T10	Toilet Paper Dispenser.	1	C,C
011					
011	EXG. WOMEN'S TLT	T3	36" Grab Bar	1	C,C
011	EXG. WOMEN'S TLT	T4	42" Grab Bar	1	C,C
011	EXG. WOMEN'S TLT	T7	Soap Dispenser	1	C,C
011	EXG. WOMEN'S TLT	T9	Paper Towel Dispenser, surface-mounted.	1	C,C
011	EXG. WOMEN'S TLT	T10	Toilet Paper Dispenser.	1	C,C

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Revision No (if any): Revision Date:

Project No: 2024-081 Current Date:

Drawing Name: **FINISH PLAN, LEGEND, SCHEDULE, AND INTERIOR ELEVATIONS**

Drawing No: **A701**

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MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification, or required for a complete and proper installation.

2) Comply with all pertinent codes, ordinances, and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair, and replacement.

9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards-Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.

12) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.

13) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.

14) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.

15) Do not cut into or reduce the size of any structural member without the permission of the Architect.

16) Provide weather-proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.

17) Support all HVAC units, ductwork, piping, and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber-in-shear isolator. Between drain pan and unit provide 4 each rubber-in-shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non-structural components such as roof decks or non-load bearing walls.

18) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

19) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
   a) Airflow rate at each exhaust outlet.
   b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
   c) Motor speed, for multiple speed fans (e.g. high, medium, low).
   d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
   e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
   f) Outlet airflow rate to each HVAC unit and supply fan.
   g) Motor current (and compare with nameplate data) at all motors.
   h) Entering and leaving air dry-bulb and wet-bulb conditions at all cooling coils.
   i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
   j) Manufacturer, model, and serial number for each piece of HVAC equipment scheduled on drawings.
   k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
   l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.

20) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

21) SUBMITTALS AND SUBMITTAL PROCEDURES:
   a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
   b. Transmit each submittal electronically in PDF format.
   c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
   d. Identify Project, the Contractor, Subcontractor, or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
   e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights, and load distribution at mounting points.
   g. Deliver submittals electronically to the Design Professional.
   h. Schedule submittals to expedite the Project, and coordinate submission of related items.
   i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
   k. Provide space for the Contractor and the Architect/ review stamps.
   l. When revised for resubmission, identify all changes made since previous submission.
   m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
   n. Submittals not requested will not be recognized or processed.
   o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

22) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

23) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
   a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
   b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
   c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
   d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
   e. Manufacturers' warranties.

24) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip-proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard overage motor as delineated in IEEE Standard 112, test method 1.3. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

25) Hangers and supports: Building attachments: concrete inserts or structural-steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all-thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials. Trapeze and riser support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

26) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: one-part, nonsag, solvent-release-curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one-part, acid-curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use O.

27) Unit Heaters-Electric: Electric unit blower heaters shall be UL listed, CSA certified and CE marked for use in dirty and corrosive environments. The heater shall be NEMA 4X rated for hose down requirements. Heaters to allow mounting positioning for horizontal or vertical operation. Heater to be of the kW rating, voltage, phase, and cycles specified in the schedule. Heating elements shall be typing 316 stainless steel tubing and type 316 stainless steel fins for maximum heat dissipation. The elements shall consist of high-quality resistance wire imbedded in a compacted magnesium oxide refractory for excellent dielectric strength and optimum thermal conductivity. The heaters shall be protected by a high temperature cutout. The fan assembly shall include a UL listed and CSA certified, totally enclosed, epoxy painted motor with permanently lubricated ball bearings designed to resist moisture and corrosion. The epoxy coated aluminum fan blade shall be dynamically balanced for vibration free operational exposed sheet metal surfaces shall be constructed of type 304 stainless steel; the 20-gauge case shall be roll formed with beaded edges to insure rigidity. A louvered outlet grill shall be painted with zinc chromate primer and two coats of corrosion resistant epoxy paint. A NEMA 4X control enclosure shall contain the pre-wired built in controls: automatic reset over-temperature cutout, fan delay relay, heater contactor, motor contactor, terminal block and 120V control transformer. Standard mounting hardware shall consist of three (3) L shaped gauge 304 stainless steel mounting brackets for mounting the heater directly to a wall for horizontal airflow or ceiling for vertical airflow. Refer to drawing for additional information.

28) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

29) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four-point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation. Non-metallic damper/duct connector shall be included. Fan and heater shall be separately controllable. Fan shall contain electric heater Air delivery shall be no less than scheduled and sound level no greater than listed in the schedule. All air and sound ratings shall be certified by HVI.

30) Electric Wall Mount Heater: Heater shall be UL listed and labelled with terminal box and cover, and built-in controls. Heater shall be made in three pieces consisting of back enclosure, heater assembly and front panel. Front panel shall be attached with concealed fasteners. Heating Elements: Nickel-chromium heating element wire shall be encased in a steel or copper sheath. Aluminum fins shall be pressure bonded to the sheath. Enclosure: Enclosure shall be minimum 20-gauge painted steel for surface mounting. Front Panel: Bar grille type with down deflection toward floor. Finish shall be paint on steel bars. Grille shall be surrounded by decorative satin finished aluminum accent frame. Unit shall be fan forced type including fan motor, fan, and controls with thermostat adjustment accessible through front grille. Unit shall also include thermal safety cutouts in the event of over temperature conditions. Refer to Schedule on Drawings for additional specifications.

31) Up Blast fan (direct drive): Side wall mounted exhaust fans shall be upblast centrifugal direct drive type. The fan wheel shall be centrifugal backward inclined, constructed of aluminum, and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be constructed of heave gauge aluminum with a rigid internal support structure. Wind bands shall have a rolled bead for added strength and shall be joined to curb caps with a leak-proof, continuously welded seam. Motors shall be mounted out of the airstream on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of discharge contaminants. Motors shall be readily accessible for maintenance. A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring. All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's nameplate containing the model number and individual serial number for future identification. Refer to schedule for further requirement.

32) Acceptable Manufacturers are:

Fans: Twin-City, Cook, Greenheck, Penn Barry, Acme, American Cool Air, Captive Air, Solar & Palau

Electric Heaters: Markel, Q-Mark, Ray wall, Indica, Chromalox

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR HP/W	MAX FAN (RPM)	MAX TIP SPEED FPM	POWER/ PHASE	LAY-OUT BASIS:	NOTES
EF-1	70	0.25	DIRECT	20 W	700	---	115/1	SP-B90	1:8:9
EF-2	70	0.25	DIRECT	20 W	700	---	115/1	SP-B90	1:8:9
EF-3	600	0.20	DIRECT	1/10 HP	1590	4525	115/1	CUE-090-VG	2:3:4:5:6
EF-4	170	0.20	DIRECT	1/15 HP	1385	2945	115/1	CUE-070-VG	2:3:4:5:6:7
EF-5	150	0.25	DIRECT	128 W	1050	---	115/1	SP-B150	1:8:10

1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. TOP OF FAN AT BOTTOM OF STRUCTURE. COORDINATE EXACT ELEVATION WITH ARCHITECT.
3. CENTRIFUGAL WALL MOUNT FAN, PROVIDE WALL MOUNTING BRACKET, GRAVITY SHUTTER WITH BUG SCREEN, EC MOTOR, AND SPEED CONTROLLER. ALL PARTS SHALL BE INTERNALLY AND EXTERNALLY COATED(INCLUDING WHEEL AND ALL SURFACES IN AIR STREAM)
4. PROVIDE ALL INTERNALLY AND EXTERNALLY COATED(INCLUDING WHEEL AND ALL SURFACES IN AIR STREAM) SUITABLE FOR SEVERELY CORROSIVE ATMOSPHERES(POTASSIUM PERMANGANATE & SODA ASH). COATING SHALL BE FACTORY APPLIED HI-PRO POLYESTER COATING.
5. POLYESTER COATING SHALL BE GREENHECK HI-PRO POLYSTER OR EQUAL. PROVIDE MANUFACTURER'S WALL GRILL.
6. FAN SHALL BE CONTROLLED BY WALL MOUNTED TIME CLOCK.
7. PROVIDE WALL SWITCH TO OVERRIDE TIME CLOCK AND ENERGIZE THE FAN PRIOR TO ENTERING ROOM.
8. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE AND INSTALL MANUFACTURER'S ROUND DUCT CONNECTION. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
9. FAN SHALL BE INTERLOCKED WITH LIGHTS IN THE ROOM IT SERVES. PROVIDE 10 MINUTE TIME DELAY.
10. FAN SHALL BE CONTROLLED BY LINE VOLTAGE THERMOSTAT PROVIDED AND INSTALLED BY MECHANICAL.

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT NO.	VOLTS/PHASE	AIR FLOW (CFM)	TOTAL KW	LAY-OUT BASIS: CHROMALOX	NOTES
UH-1	208/1	405	5.0	HD3D-500	1:2:3:4:5
UH-2	208/1	405	3.0	HD3D-300	1:2:3:4:5

1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
2. PROVIDE WALL OR CEILING MOUNTING BRACKETS. BOTTOM OF HEATER AT 8'-0" AFF.
3. PROVIDE UNIT MOUNTED THERMOSTAT, CONTACTOR, AND INTEGRAL FAN CONTROL POWER TRANSFORMER AND INTEGRAL DISCONNECT SWITCH.
4. ALL HEATER COMPONENTS SHALL BE HOUSED IN 4X ENCLOSURE SUITABLE FOR CORROSIVE ENVIRONMENTS AND WASH DOWN APPLICATION.
5. HEATER CASING INCLUDING ALL ITS COMPONENTS SHALL BE EPOXY PAINTED.

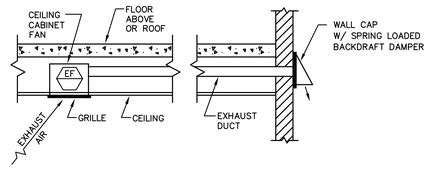
ELECTRIC CABINET HEATER SCHEDULE

MARK	HEATER KW	VOLTS/PH	BASIS OF DESIGN	NOTES
EWH-1	1.5	120/1	BROAN 174	1:2:3
EWH-2	1.5	120/1	BROAN 174	1:2:3
EWH-3	1.5	120/1	BROAN 174	2:3:4

1. MOUNT HEATER AT 7'-6" AFF.
2. VERTICAL WALL MOUNTED EXPOSED HEATER.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. MOUNT HEATER AT 12" AFF.

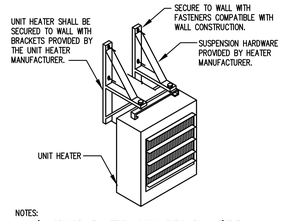
MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 \ 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
(F)-, (SCD)- (SD)	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
(20) / E10	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 (S1) 8"ø / 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
SA	SUPPLY AIR
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
UH	UNIT HEATER
AD / AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW



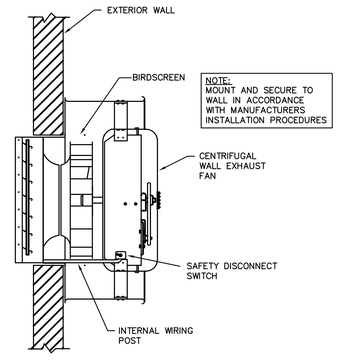
NOTE: 1) WALL CAP SHALL HAVE SPRING LOADED BACKDRAFT DAMPER WITH NEOPRENE SEAL AROUND IT.

1 CEILING EXHAUST FAN W/SIDEWALL DISCHARGE-DETAIL
SCALE: N.T.S.



NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH & T'STAT.
2. MOUNT AS HIGH AS POSSIBLE.

2 UNIT HEATER MOUNTING
SCALE: N.T.S.



3 SIDEWALL CENTRIFUGAL EXHAUST FAN MOUNTING-DETAIL
SCALE: NTS

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	FILMORE THOMAS PARK
Location:	Macon, Georgia
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
3793 LOG CABIN DR
MACON, GA 31204

Owner/Agent:

Designer/Contractor:
KRUNAL PATEL
TOTAL ENGINEER
169 NEW ST
MACON, GA 31201

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
1	UH-1 (Single Zone): Heating: 1 each - Unit Heater, Electric, Capacity = 17 kBtu/h No minimum efficiency requirement applies Fan System: None
1	UH-2 (Single Zone): Heating: 1 each - Unit Heater, Electric, Capacity = 10 kBtu/h No minimum efficiency requirement applies Fan System: None
3	EWH-1 2 3 (Single Zone): Heating: 3 each - Unit Heater, Electric, Capacity = 5 kBtu/h No minimum efficiency requirement applies Fan System: None

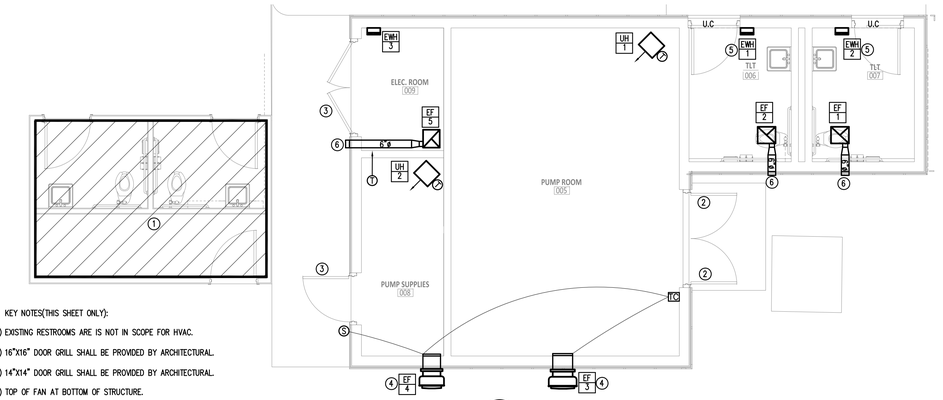
Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KRUNAL.M.PATEL-MECH.ENG — Name - Title
Signature
10-23-24 — Date

Project Title: FILMORE THOMAS PARK
Report date: 10/23/24

4 COMCHECK COMPLIANCE CERTIFICATE
SCALE: NTS



KEY NOTES(THIS SHEET ONLY):
1. EXISTING RESTROOMS ARE IS NOT IN SCOPE FOR HVAC.
2. 16"X16" DOOR GRILL SHALL BE PROVIDED BY ARCHITECTURAL.
3. 14"X14" DOOR GRILL SHALL BE PROVIDED BY ARCHITECTURAL.
4. TOP OF FAN AT BOTTOM OF STRUCTURE.
5. MOUNT HEATER AT 7'-6" AFF.
6. 6"ø EXHAUST AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.

1 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

WM2A ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON,GEORGIA 31201

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M. PATEL

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RENOVATION

3793 LOG CABIN DR, MACON, GA 31204-3753

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 24-081
www.totalengineers.com

These drawings convey certain contractual information through the use of color. Do NOT use drawings printed in black-and-white or greyscale.

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Project Status:

Revision No (if any): Revision Date:

Project No: 2024-081
Current Date: 10/30/2024

Drawing Name: MECHANICAL SPECS., SCHEDULES & PLANS

Drawing No: **M100**

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:
A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665.
All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:
   1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
   2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
      a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
      b. Fill and isolate system according to either of the following:
         1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
         2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
      c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
      d. Repeat procedures if biological examination shows contamination.
      e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

HW & CW Valves: Use pipe size valves, as shown below:
A. Ball: Watts LFFBV-3C.
B. Check: Watts #600 or #601S.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Grid drains for public lavatories.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for concealed behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and unconcealed until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufacturers: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., Mcguire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Tankless Electric Water Heaters: A.O. Smith, Rheem, EEmax, Chronomite
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
Brass Valves: American, Crane, Watts, Apollo

FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE BELOW FLOOR	WASTE FIXTURE CONN.	WATER SUPPLY COLD	WATER SUPPLY HOT	WATER FIX. CONN. COLD	WATER FIX. CONN. HOT	MANUFACTURE AND NOTES
WC	ADA WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96057-B WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
LAV	ADA WALL-HUNG LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2005 LAVATORY. MOEN 8413F05 FAUCET.
NFWH	NON-FREEZE WALL HYDRANT			3/4"		3/4"		WOODFORD B65
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
GCO	GRADE CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-200-RX-4-60.
PS	POOL SHOWER			1/2"		1/2"		OUTDOOR SHOWER COMPANY WMPC-150-12

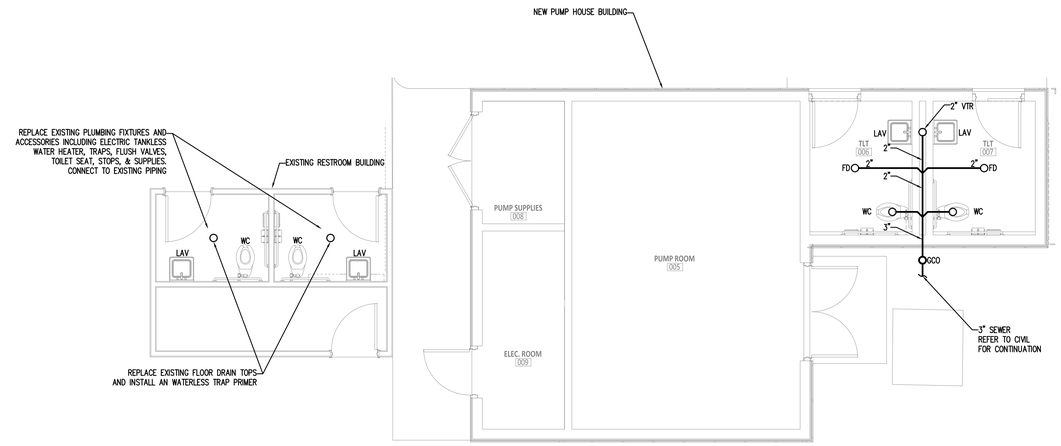
LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	BALANCING VALVE		TEMPERED HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	CHECK VALVE	140°	140° HOT WATER	DN	DOWN	CW	COLD WATER
	PIPE UP		HOT WATER RETURN	CONN.	CONNECTION	HW	HOT WATER
	PIPE DOWN	C	GAS	NTS	NOT TO SCALE	HWR	HOT WATER RETURN
PDI-B	PDI UNIT WATER HAMMER ARRESTOR	R	ROOF DRAINAGE PIPING	VT	VENT	B.F.F.	BELOW FINISH FLOOR
DWGS.	DRAWINGS		SEWER VENT	FFE	FINISHED FLOOR ELEVATION	CV	CLOSED VALVE
IW	INDIRECT WASTE		SEWER	FLR	FLR		
DS	DOWNSPOUT	C	CONDENSATE	GREASE	GREASE LADEN SEWER		
		O	OVERFLOW ROOF DRAINAGE PIPING				

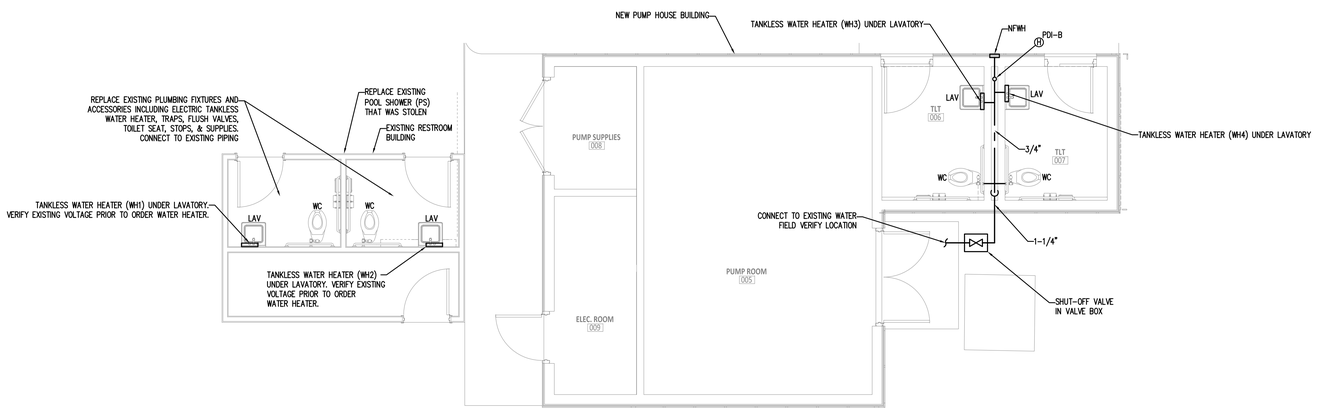
WATER HEATER & TANK SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	GALLON	KW	*ELECTRICAL VOLTS	*ELECTRICAL PHASE
WH1	CHRONOMITE	CMI-15L/208	TANKLESS ELECTRIC POINT OF USE	N/A	3.12	208	1
WH2	CHRONOMITE	CMI-15L/208	TANKLESS ELECTRIC POINT OF USE	N/A	3.12	208	1
WH3	CHRONOMITE	CMI-15L/208	TANKLESS ELECTRIC POINT OF USE	N/A	3.12	208	1
WH4	CHRONOMITE	CMI-15L/208	TANKLESS ELECTRIC POINT OF USE	N/A	3.12	208	1

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE.



1 PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



2 PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

WMA/2A ARCHITECTS
WM2A.COM
348 COTTON AVENUE
SUITE 500, PO BOX 110
MACON,GEORGIA 31201

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRINAL M. PATEL

MACON-BIBB COUNTY PARKS AND RECREATION

FILMORE THOMAS PARK RENOVATION

3793 LOG CABIN DR, MACON, GA 31204-3753

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 24-081
www.totalengineers.com

These drawings convey certain contractual information through the use of color. Do NOT use drawings printed in black-and-white or greyscale.

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Project Status: PLUMBING PLANS
Revision No (if any): Revision Date:
Project No: 2024-081 Current Date: 10/30/2024
Drawing Name: **PLUMBING PLANS**
Drawing No: **P101**

ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO FILMORE THOMAS PARK IN MACON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.

3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, ALL ACCESSIBILITY CODES, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.

5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.

6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.

7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED , INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS , AND MANUFACTURER'S RECOMMENDATIONS.

8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.

9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.

10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.

11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. EQUIPMENT POWER SUPPLY AND WIRING REQUIREMENTS: THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF EQUIPMENT POWER SUPPLY AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER,ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, POWER WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.

2. ALL INTERIOR 120 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN "MC" CABLE IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN ELECTRICAL METALIC CONDUIT. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT, GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE. ALL 20A BRANCH CIRCUITS LONGER THAN 80FTSHALL BE #10.

3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.

4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.

5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.

6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).

7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.

8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR.

9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.

10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.

11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.

12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.

13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL. THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.

2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE 1 ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.

3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE 1 ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.

4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.

5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR, PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GE, SEIMENS, AND CULTER HAMMER. ALL CURRENT CARRYING PARTS SHALL BE COPPER.

6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.

7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.

8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.

2. ALL LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.

3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.

4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).

5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.

6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.

7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.

8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.

9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	1'X4' LINEAR VAPORTIGHT FIXTURE; SURFACE MOUNTING; FIBERGLASS AND NEMA 4X RATED LENS AND HOUSING; WET AND IP RATED . LAMPS: LED, 6000 LUMENS, 46 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "FEM LED" SER.,COLUMBIA LXEM PORTFOLIO "LDG" SER., CREE "SDL6" SER.
OA	ARCHITECURAL LOW PROFILE WALL MOUNTED OUTDOOR WALL PACK. PROVIDE PHOTOCELL AND 90 MIN. BACK-UP BATTERY OPTIONS. LAMPS: LED, 750 LUMENS, 4 WATTS, 4000 DEGREE K BALLAST:UNV. VOLT	LITHONIA WDGE2 OR APPROVED EQUAL

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.

2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.

3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.

4. PROVIDE UNSWITCHED HOT TO EXIT SIGNS, EMERGENCY FLOOD LIGHTS AND EXTERIOR BUILDING EGRESS LIGHTING.

GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4 IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:
CIRCUIT NUMBER
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

ELECTRICAL LEGEND

LIGHTING AND POWER

- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
- CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
- A-2.4 — HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
- LIGHTING FIXTURE, WALL BRACKET MOUNTED. (SEE ARCHITECTURAL FOR MOUNTING HEIGHT.) PROVIDE BATTERY PACK.
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.
- DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
- WP — DUPLEX CONVENIENCE OUTLET, GFI TYPE, 18 IN. MOUNTING HEIGHT. "WP" WHERE SHOWN INDICATES WEATHERPROOF. PROVIDE METAL IN-USE WEATHERPROOF COVERPLATE.
- DUPLEX CONVENIENCE OUTLET, GFI TYPE, MOUNTED ABOVE COUNTER. MOUNT AT 3 FT.- 4 IN. TO BOTTOM OF BOX.
- $ — SINGLE POLE TOGGLE SWITCH, 42 IN. MOUNTING HEIGHT.
- PANELBOARD, SEE SCHEDULE.

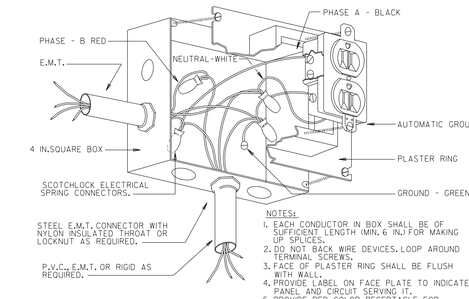
LIGHTING CONTROL SENSORS

- (3) — COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH.
- WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DW-100, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).

FIRE ALARM SYSTEM

- (2)P — SMOKE DETECTOR, PHOTOELECTRIC TYPE, 120V STAND ALONE DETECTOR WITH 9V BATTERY BACKUP. DETECTORS INTERLOCKED SO THAT WHEN ONE ANNUNCIATES, THEY ALL DO ON THE CIRCUIT.

NOTE:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6 IN.) FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.
4. PROVIDE LABEL ON FACE PLATE TO INDICATE PANEL AND CIRCUIT SERVING IT.
5. PROVIDE RED COLOR RECEPTACLE FOR EMERGENCY.

1 / E0.1 RECEPTACLE CONNECTION DETAIL
NOT TO SCALE

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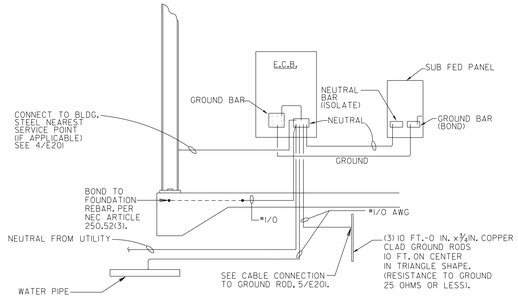
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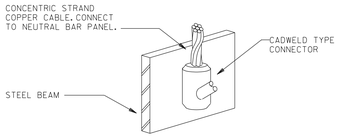
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Project Status: ISSUED FOR PERMIT
Revision No (if any): Revision Date:
Project No: 2024-081
Current Date: 10/30/24
Drawing Name: ELECTRICAL LEGEND, SCHEDULES AND DETAILS
Drawing No: **E101**



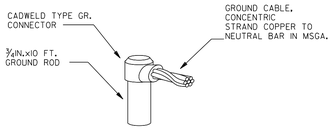
3 E201 BUILDING GROUNDING

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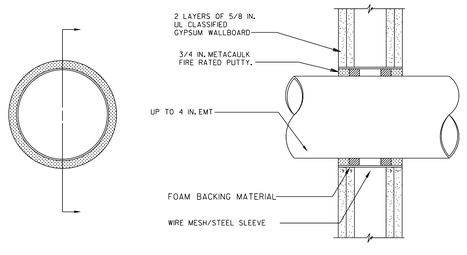
4 E201 CABLE CONNECTION TO STEEL BEAM

NOT TO SCALE



5 E201 CABLE CONNECTION TO GROUND ROD

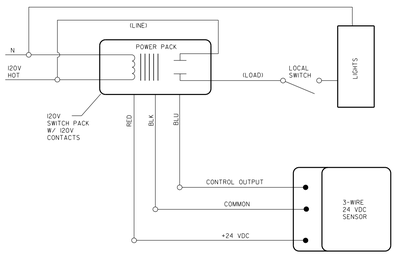
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

6 E201 DETAIL - GYPSUM WALLBOARD PENETRATION

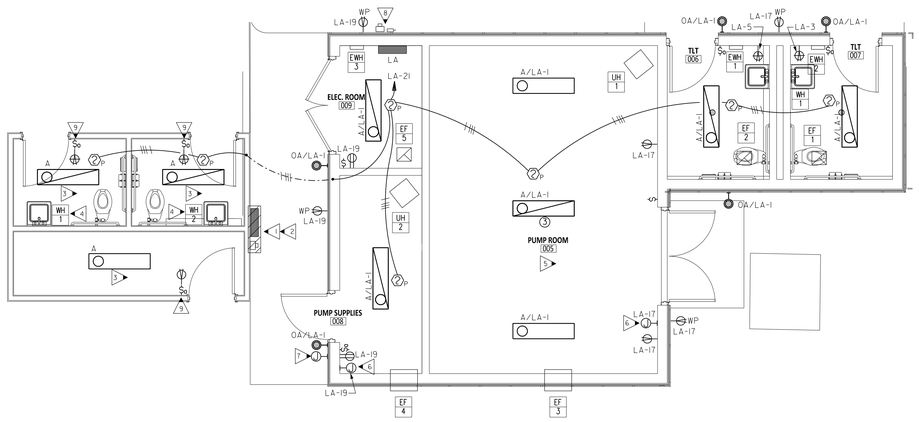
NOT TO SCALE



7 E201 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING

NOT TO SCALE

(SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)



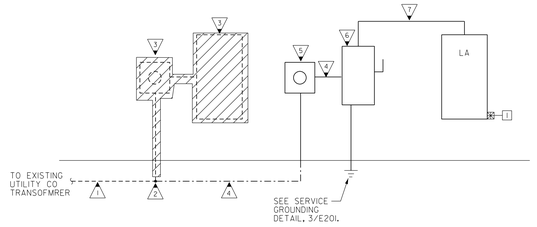
1 E201 FLOOR PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

0 2' 4'

KEYED NOTES: (2/E201 ONLY)

1. REUSE EXISTING SERVICE CONDUIT. PROVIDE NEW SERVICE CONDUCTORS FOR ENTIRE SERVICE (NO SPLICES) TO MOVE SERVICE TO NEW LOCATION.
2. INTERCEPT EXISTING SERVICE CONDUIT AND EXTEND NEW 3 IN. CONDUIT TO NEW METER. SEE KEYED NOTE 4.
3. EXISTING PANEL AND METER TO BE REPLACED AND RELOCATED. COORDINATE WITH UTILITY COMPANY PRIOR TO ANY WORK.
4. 4#4/0,3 IN C. (ENTIRE SERVICE)
5. 200A, 120/208V, 3PH,4W TRANSOCKET METER BASE SUPPLIED BY UTILITY COMPANY AND INSTALLED BY CONTRACTOR.
6. 200A/3P/3R SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER. AIC RATING 10,000 MINIMUM. COORDINATE EXISTING AIC RATING WITH UTILITY COMPANY.
7. 4#4/0,#1/0G,3 IN C.



2 E201 POWER RISER DIAGRAM

NOT TO SCALE

T.V.S.S.

1. MAIN SERVICE PANELS; PROVIDE EXTERNALLY MOUNTED 200KA PER MODE TVSS, WITH BREAKER FOR DISCONNECT MEANS AND FACTORY WIRED CONNECTIONS. 5"#4, 1-1/4" CONDUIT FOR CONNECTION FROM BREAKER TO TVSS MODULE

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

CIRCUIT NUMBER

FIXTURE TYPE; TYPE "A" IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

KEYED NOTES: (1/E201 ONLY)

1. EXISTING METER AND ELECTRICAL PANEL TO BE REPLACED AND RELOCATED. COORDINATE WITH UTILITY COMPANY PRIOR TO ANY WORK. SEE RISER DIAGRAM.
2. EXISTING BRANCH CIRCUITS THAT ARE CURRENTLY SERVED FROM THIS PANEL THAT ARE TO REMAIN SHALL TO BE RE-CIRCUITED TO THE NEW PANEL LOCATED IN ELEC. ROOM 009. EXTEND EXISTING CONDUITS, CONDUCTORS AND PROVIDE REQUIRED JUNCTION BOXES PER 2020 NEC. DO NOT SPLICE BELOW GRADE.
3. EXISTING ELECTRICAL LIGHTING FIXTURE, SWITCH, RECETPACLE, WATER HEATER AND ETC. TO BE REPLACED WITH NEW. REPLACE OR RE-SECURE) ANY EXPOSED CONDUIT THAT IS IN NEED OF REPLACEMENT.
4. EXISTING WATER HEATER TO BE REPLACED WITH NEW. SEE MECHANICAL/ PLUMBING EQUIPMENT POWER SCHEDULE.
5. EXISTING SPLASH PAD ELECTRICAL EQUIPMENT TO BE TEMPORALLY DISCONNECTED AND REMOVED DURING CONSTRUCTION. REPLACE EXISTING ELECTRICAL EQUIPMENT ONCE CONSTRUCTION IF COMPLETED. COORDINATE WITH OWNER AND SPLASH PAD CONTRACTOR EXACT REQUIREMENTS. EXISTING EQUIPMENT, BUT NOT LIMITED TO, IPUMP (208V/3PH/5HP/13.5A), IPUMP 208V/1PH/1.5HP/12A, CONTROL PANEL, HAYWARD CONTROLLER, DISCONNECTS AND ETC. FIELD VERIFY EXACT EXISTING EQIUPMENT.
6. JUNCTION BOX FOR TIME CLOCK TO CONTROL EXHAUST FAN. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE BRANCH CIRCUITRY AS REQUIRED.
7. JUNCTION BOX FOR EXHAUST FAN OVERRIDE. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE BRANCH CIRCUITRY AS REQUIRED.
8. NEW METER AND SERVICE DISCONNECT. COORDINATE EXACT LOCATION WITH OWNER AND UTILITY COMPANY PRIOR TO ROUGH-IN. SEE RISER DIAGRAM.
9. EXISTING SWITCH AND OUTLETS (BEING REPLACED) ARE SERVED FROM SAME CONDUIT.

GENERAL NOTES:

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT MECHANICAL, ELECTRICAL ROOMS). SEE LIGHTING SENSOR LEGEND.

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

G. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

H. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

I. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.

J. FIRE SEAL ALL FIREWALL PENETRATIONS.

MECHANICAL/PLUMBING EQUIPMENT POWER SCHEDULE

UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
EWH-1	120V/1Ø	20A/1P	LA-23	3#12,3/4 IN C.	MOTOR RATED SWITCH	1
EWH-2	120V/1Ø	20A/1P	LA-25	3#12,3/4 IN C.	MOTOR RATED SWITCH	1
EWH-3	120V/1Ø	20A/1P	LA-27	3#12,3/4 IN C.	MOTOR RATED SWITCH	1
UH-1	208V/1Ø	30A/2P	LA-29	4#10,3/4 IN C.	30A/2P	1
UH-2	208V/1Ø	20A/2P	LA-33	4#12,3/4 IN C.	30A/2P	1
EF-1	120V/1Ø	20A/1P	NOTE 2.	3#12,1/2 IN C.	MOTOR RATED SWITCH	1,2
EF-2	120V/1Ø	20A/1P	NOTE 2.	3#12,1/2 IN C.	MOTOR RATED SWITCH	1,2
EF-3	120V/1Ø	20A/1P	LA-17	3#12,1/2 IN C.	MOTOR RATED SWITCH	1,4
EF-4	120V/1Ø	20A/1P	LA-19	3#12,1/2 IN C.	MOTOR RATED SWITCH	1,3
EF-5	120V/1Ø	20A/1P	LA-19	3#12,1/2 IN C.	MOTOR RATED SWITCH	1,5
WH-1	208V/1Ø	20A/2P	LA-9	4#12,3/4 IN C.	30A/2P	
WH-2	208V/1Ø	20A/2P	LA-13	4#12,3/4 IN C.	30A/2P	
WH-3	208V/1Ø	20A/2P	LA-24	4#12,3/4 IN C.	30A/2P	
WH-4	208V/1Ø	20A/2P	LA-28	4#12,3/4 IN C.	30A/2P	

NOTES:
1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 10 MINUTE TIME DELAY RELAY. PROVIDE UNSWITCHED HOT WIRE TO FAN AND RELAY AT FAN.
3. FAN CONTROLLED BY 365/24HR/7 TIME CLOCK LOCATED IN ROOM SERVING. PROVIDE OVER RIDE SWITCH TO TURN FAN ON PRIOR TO ENTERING ROOM.
4. FAN CONTROLLED BY 365/24HR/7 TIME CLOCK LOCATED IN PUMP ROOM.
5. FAN CONTROLLED BY LINE VOLTAGE THERMOSTAT. PROVIDED AND ISNTALLAED BY MECH..

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL | MAIN AMPS LA 200 | LOCATION | MOUNTING MAIN | ELEC RM 009 SURFACE LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
BLDG LTS	337			20	1	1	A	2	1	20			1000	EX. PAVILION LIGHTS
RR RCPT		1000		20	1	3	B	4	1	25		1000		EX. PAVIL.LTS, / EMERG
RR RCPT			1000	20	1	5	C	6	1	20	1000			EX. PAVILION GFIS
EX. BATH LIGHTS	500			20	1	7	A	8	1	20			500	EX. SPLASH PAD GFI
WH-1		1560		20	2	9	B	10	1	20		1000		EX. STAGE GFI
			1560			11	C	12	1	20	1000			EX. PANEL / IRRIGAT. GFI
WH-2	1560			20	2	13	A	14	1					SPACE
		1560				15	B	16	1					SPACE
RCPTS/EF-3			968	20	1	17	C	18	3	50	4000			EX. SPLASH PAD PUMP
RCPTS/EF-4,5	1078			20	1	19	A	20					4000	
SMOKE DETEC.		100		20	1	21	B	22				4000		
EWH-1			1500	20	1	23	C	24	2	20	1560			WH-3
EWH-2	1500			20	1	25	A	26					1560	
EWH-3		1500		20	1	27	B	28	2	20		1560		WH-4
UH-1			2250	30	2	29	C	30			1560			
	2250					31	A	32	1					SPACE
UH-2		1500		20	2	33	B	34	1					SPACE
			1500			35	C	36	1					SPACE
SPARE				20	1	37	A	38	3	60				TVSS
SPARE				20	1	39	B	40						
SPARE				20	1	41	C	42						
TOTALS	7225	7220	8778								9120	7560	7060	

VOLT AMPS: BUS A 14285; BUS B 14780; BUS C 17898; TOTAL 46963

REMARKS: "EX" INDICATES EXISITNG CIRCUIT TO BE EXTENDED TO NEW PANEL LOCATION. EXISTING LOADS ARE ESTIMATED. SEE KEYED NOTE 2 OF 1/E220. 10,000 AIC RATING MIN. TO MATCH EXISTING.

LA DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	46,763		
LIGHTING	2,837	1.25	3,546
HVAC	10,000	1.00	10,000
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	10,000	1.25	15,000
MOTOR LOAD		1.00	0
RECEPTACLE (FIRST 10,000 VA)	7,446	1.00	7,446
RECEPTACLE (GREATER THAN 10,000 VA	0	0.50	0
WATER HEATER	12,480	1.00	12,480
MISC LOADS		1.00	0
DEMAND LOAD - VOLT-AMPERES			50,472
DEMAND LOAD - 208V 3-PHASE AMPS			140.2

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Revision No (if any): Revision Date:

Project No: 2024-081 Current Date: 10/30/24

Drawing Name: FLOOR PLAN - ELECTRICAL

Drawing No: E201