

PLANS FOR:

PROVIDENCE CREEK AMENITY CENTER & POOL



P-0961

JDS Consulting
ENGINEERING · DESIGN · ENERGY

JDS Consulting PLLC, 8600 'D' JERSEY COURT, RALEIGH, NC 27617 919.480.1075
INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE CLIENT SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE FIELD DATA. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

INDEX OF SHEETS

SHEET	TITLE
T	TITLE SHEET: PROJECT INFORMATION AND NOTES
GN1.0	GENERAL NOTES
APP B1	APPENDIX "B"
APP B2	APPENDIX "B"
B1.0	FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES
B2.0	ELEVATIONS, RESTROOMS, WALL SECTION
B2.1	LIFE SAFETY PLAN
S1.0	FIRST FLOOR FRAMING PLAN
M1.0	MECHANICAL PLANS
E1.0	ELECTRICAL PLANS
E1.1	ELECTRICAL SCHEDULES
P1.0	PLUMBING PLANS
P1.1	PLUMBING NOTES AND DETAILS
SP1.1	POOL PIPING LAYOUT
SP1.2	POOL LAYOUT
SP.2	SECTIONS AND DETAILS
SP.3	SECTIONS AND DETAILS
SP.4	DETAILS
SP.5	DETAILS
SP.6	DETAILS

REVISION LOG

DATE	REVISED BY	REVISION
03/07/2023	NWS	REMOVED FIRE ALARM FROM APPENDIX B
05/02/2023	NWS	REVISED B2 DETAILS PER CLIENT REQUEST, ADDED PLUMBING NOTE PER CLIENT REQUEST ²
05/31/2023	NWS	REVISED AS PER DEPARTMENT OF ENVIRO. HEALTH REVISIONS ³

NOTES

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

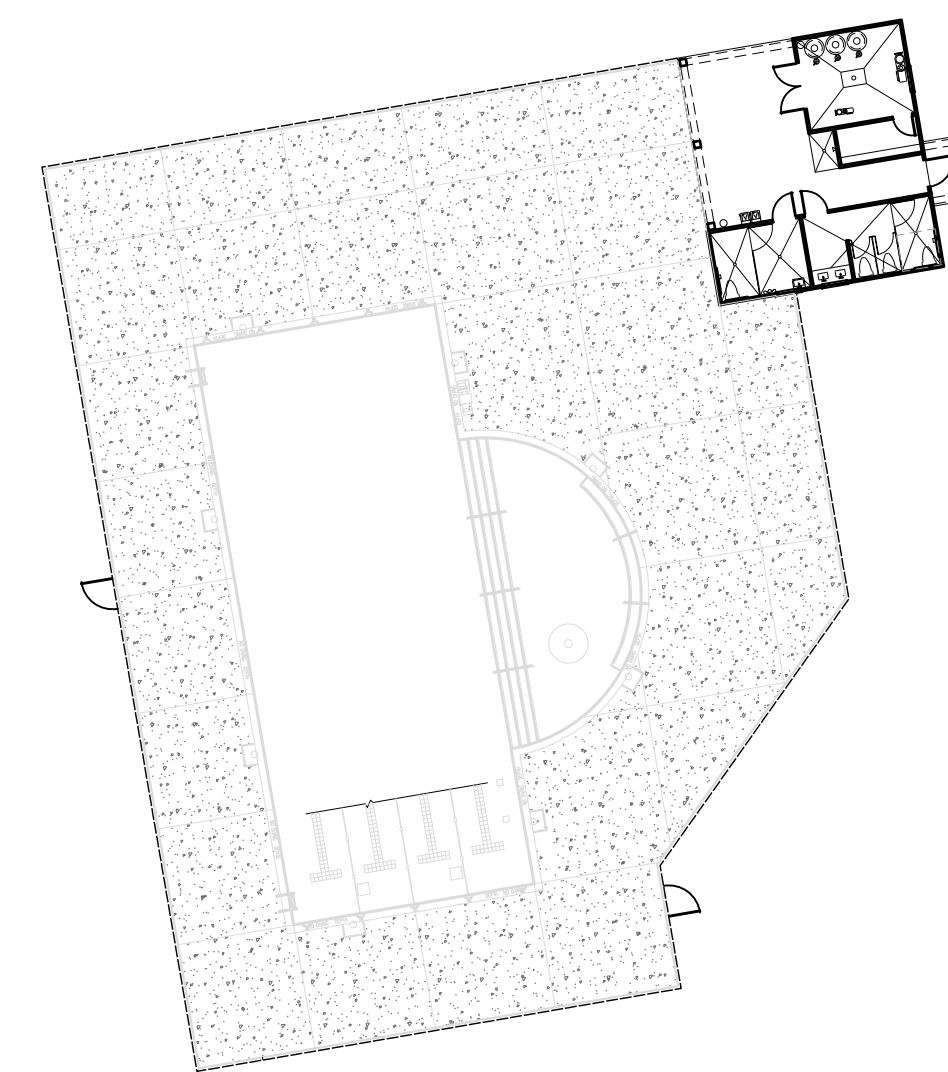
CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

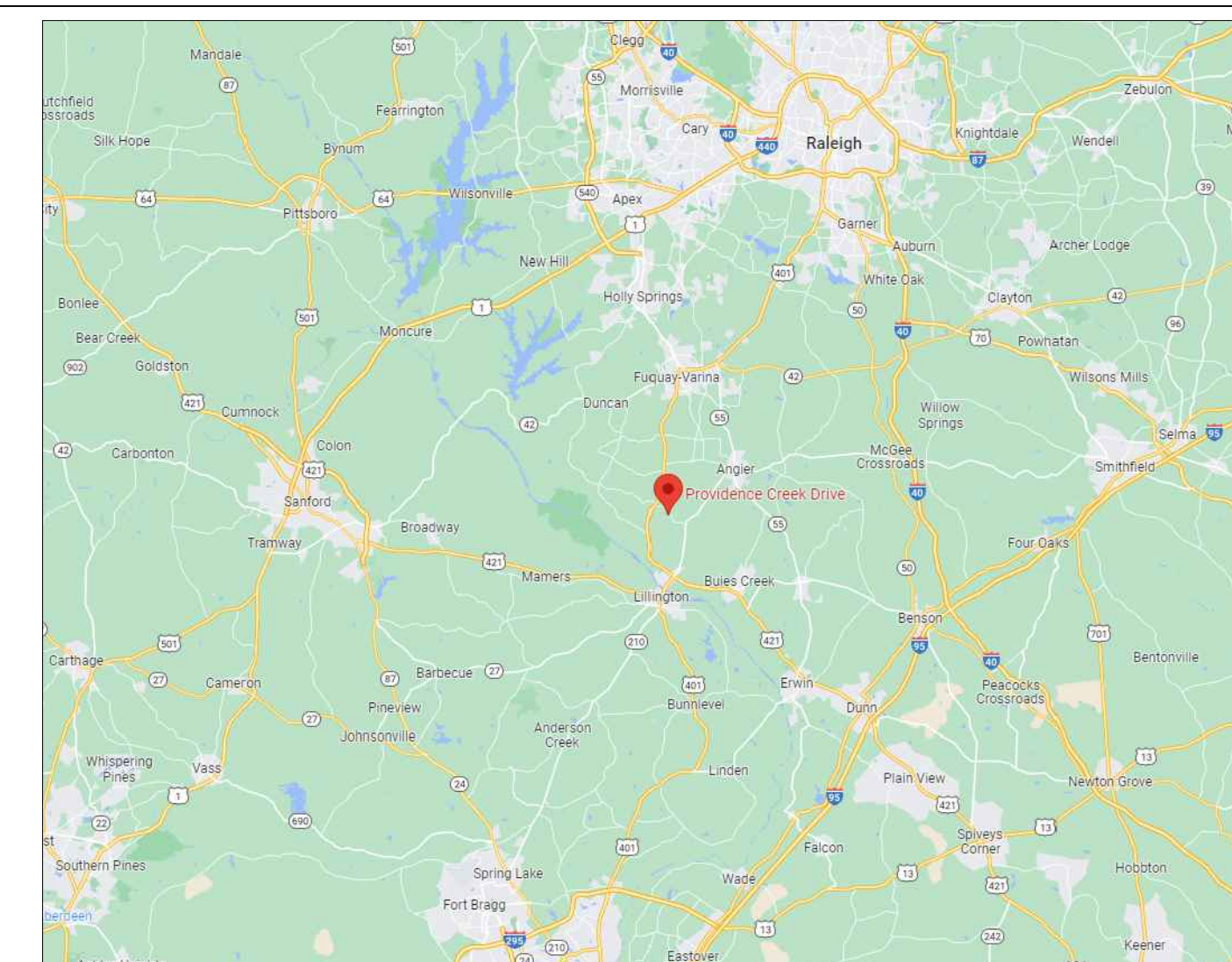
2018
NORTH CAROLINA
STATE BUILDING CODE:
STATE BUILDING CODE

ENGINEER OF RECORD

JDS CONSULTING, PLLC
ENGINEERING · DESIGN · ENERGY
8600 'D' JERSEY COURT
RALEIGH, NC 27617
FIRM LIC. NO: P-0961
PROJECT REFERENCE: 23900139



KEY PLAN
SCALE: NTS



VICINITY MAP
SCALE: NTS

CLIENT: **MATTAMY HOMES**

PROJECT: **PROVIDENCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

TITLE SHEET

T

ABBREVIATIONS

ABV	ABOVE	LVL	LAMINATED VENEER LUMBER
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ALT	ALTERNATE	MECH	MECHANICAL
BRG	BEARING	MFTR	MANUFACTURER
BSMT	BASEMENT	MIN	MINIMUM
CANT	CANTILEVER	NTS	NOT TO SCALE
CJ	CEILING JOIST	OA	OVERALL
CLG	CEILING	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CO	CASED OPENING	R	RISER
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RFG	ROOFING
CONT	CONTINUOUS	RO	ROUGH OPENING
D	CLOTHES DRYER	RS	ROOF SUPPORT
DBL	DOUBLE	SC	STUD COLUMN
DIAM	DIAMETER	SF	SQUARE FOOT (FEET)
DJ	DOUBLE JOIST	SH	SHELF / SHELVES
DN	DOWN	SHG	SHEATHING
DP	DEEP	SHW	SHOWER
DR	DOUBLE RAFTER	SIM	SIMILAR
DSP	DOUBLE STUD POCKET	SJ	SINGLE JOIST
EA	EACH	SP	STUD POCKET
EE	EACH END	SPEC'D	SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	T	TREAD
FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
FDN	FOUNDATION	THK	THICK(NESS)
FF	FINISHED FLOOR	TJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	W	CLOTHES WASHER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN	WWF	WELDED WIRE FABRIC
KS	KING STUD COLUMN	XJ	EXTRA JOIST

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE BUILDING CODE (SEE TITLE SHEET).

GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS CONSULTING IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS APPLIED TO THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE APPLIED.
- FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROOFING METHODS AND MATERIALS.
- DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS.

DESIGN CRITERIA

- BUILDING CODE: SEE TITLE SHEET
- ASSUMED SOIL BEARING-CAPACITY 2,000 PSF
- DESIGN LIVE LOADS
 - ROOF: 20 PSF
 - FLOOR (OFFICE) : 50 PSF
 - FLOOR (CORRIDOR) : 100 PSF
- SNOW LOADS
 - GROUND SNOW: 15 PSF
 - FLAT ROOF SNOW, Pf: 15 PSF
 - SNOW EXPOSURE FACTOR, Ce: 1.0
 - IMPORTANCE FACTOR, Is: 1.0
 - THERMAL FACTOR, Ct: 1.0
 - DRIFT SURCHARGE LOAD(S), Pd:
 - WIDTH OF SNOW DRIFT(S), w:
- WIND
 - ULTIMATE DESIGN WIND SPEED: 118 MPH
 - NOMINAL DESIGN WIND SPEED: 89 MPH
 - RISK CATEGORY: II
 - WIND EXPOSURE CATEGORY: B
 - INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - ROOF COMPONENTS AND CLADDING: + 10 PSF, - 31 PSF
 - WALL COMPONENTS AND CLADDING: + 18 PSF, - 20 PSF
- SEISMIC
 - RISK CATEGORY: II
 - IMPORTANCE FACTOR, Ie: 1.0
 - MAPPED SPECTRAL RESPONSE ACCELERATION, Ss: 0.116 g
 - MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.058g
 - SITE CLASS: D
 - DESIGN SPECTRAL RESPONSE ACCELERATION, Sds: 0.23 g
 - DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1: 0.14g
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL MOMENT FRAME
 - DESIGN BASE SHEAR: V = 8 k
 - SEISMIC RESPONSE COEFFICIENT, Cs: 0.04
 - RESPONSE MODIFICATION COEFFICIENT, R: 8.5
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 POUNDS PER SQUARE FOOT (PSF). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.
- WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE DRAWINGS FOR SPECIAL CONDITIONS.
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

STRUCTURAL CONCRETE

- POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- NORMAL-WEIGHT CONCRETE SHALL HAVE A MAXIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT (PCF), UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60, INCLUDING TIES AND STIRRUPS.
- MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - Unformed surfaces in contact with ground: 3"
 - Formed surfaces exposed to earth or weather: 2"
 - Formed surfaces not exposed to earth or weather: 1 1/2"
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE THE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- PLUMBING, MECHANICAL, AND ELECTRICAL (PME) DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR RESPECTIVE ITEMS.
- MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.
- CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY SHALL BE AIR-ENTRAINED WHEN REQUIRED BY THE APPLICABLE CODE.
- WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

STRUCTURAL MASONRY

- COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (CMU) SHALL BE 1,900 PSI ON NET AREA.
- MORTAR SHALL BE TYPE S AND COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
- COMPRESSIVE STRENGTH OF MORTAR SHALL BE 1,800 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE SHALL BE 1,500 PSI ON NET AREA.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

STRUCTURAL STEEL

- STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992. Fy = 50 KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL PIPE SHAPES SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
- ALL MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO *AISC CODE OF STANDARD PRACTICE*, SECTION 10.
- BOLTS FOR BOLTED CONNECTIONS SHALL BE 3/4" DIAMETER, ASTM A325, TYPE N, SNUG TIGHT, UNLESS NOTED OTHERWISE.
- FABRICATOR SHALL DESIGN BEAM CONNECTIONS PER LOADS PROVIDED IN *AISC UNIFORM LOAD TABLES*, UNLESS NOTED OTHERWISE.
- ALL BEAMS AND GIRDERS SHALL HAVE THEIR ROLLING CAMBER PLACED UP.
- NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD. HOLES, SLOTS, CUTS, ETC. ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
- SPlicing OF STRUCTURAL STEEL MEMBERS, WHERE NOT DETAILED, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS NOTED OTHERWISE.
- NO FINAL BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
- INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

STRUCTURAL WOOD

- ALL STRUCTURAL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%, UNLESS NOTED OTHERWISE.
- INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI
- FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI
- LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:


Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI
- PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI
- LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI
- REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- FACE OF WALL FRAMING TO BE FLUSH WITH FACE OF FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
- ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
 - SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
 - TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
 - INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
 - TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
- WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
- FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- PER SECTION 1604 OF THE APPLICABLE CODE (SEE TITLE SHEET), ANCHORAGE OF THE ROOF TO WALLS AND COLUMNS, AND OF WALLS AND COLUMNS TO FOUNDATIONS TO RESIST UPLIFT AND SLIDING FORCES, SHALL BE PROVIDED. REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

- FABRICATION AND ERECTION OF WOOD TRUSSES SHALL BE PER THE LATEST EDITION OF THE AMERICAN FOREST AND PAPER ASSOCIATION PUBLICATION *NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION*, AND ANSI/TPI 1.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- TRUSS MANUFACTURER SHALL FURNISH SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INDICATE TRUSS END REACTIONS FOR CONNECTION VERIFICATION BY ENGINEER-OF-RECORD.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.
- WOOD MEMBERS SHALL NOT BE CUT FOR PLUMBING OR WIRING UNLESS DETAILED ON THE APPROVED SHOP DRAWINGS.

FASTENER SCHEDULE

CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS

DETAILS AND NOTES ON DRAWINGS GOVERN.



P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY

JDS Consulting PLLC, 3600 TP JERSEY CT, RALEIGH, NC 27617 919.480.1075
INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVINCIE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

GENERAL NOTES

GN1.0

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: PROVIDENCE CREEK DRIVE
 Address: 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526 Zip Code 27526
 Owner/Authorized Agent: JDS CONSULTING Phone # (919) 675 - 8619 E-Mail TCALABRO@JDSCONSULTING.NET
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City FUQUAY-VARINA County State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	JDS Consulting	CHARLES E. TEAL	045403	(919) 280-2023	CTEAL@JDSCONSULTING.NET
Civil					
Electrical	JDS Consulting	CHARLES E. TEAL	045403	(919) 280-2023	CTEAL@JDSCONSULTING.NET
Fire Alarm					
Plumbing	JDS Consulting	CHARLES E. TEAL	045403	(919) 280-2023	CTEAL@JDSCONSULTING.NET
Mechanical	JDS Consulting	CHARLES E. TEAL	045403	(919) 280-2023	CTEAL@JDSCONSULTING.NET
Sprinkler-Standpipe					
Structural	JDS Consulting	CHARLES E. TEAL	045403	(919) 280-2023	CTEAL@JDSCONSULTING.NET
Retaining Walls >5' High					
Other					

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building Addition Renovation
 1st Time Interior Completion
 Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
 Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

RISK CATEGORY (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 (check all that apply)

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Yes Class I II III Wet Dry

Fire District: No Yes **Flood Hazard Area:** No Yes

Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor		931 SQ. FT.	
Basement			
TOTAL		931 SQ. FT.	

ALLOWABLE AREA

Primary Occupancy Classification(s):

- Assembly A-1 A-2 A-3 A-4 A-5
- Business
- Educational
- Factory F-1 Moderate F-2 Low
- Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
- Institutional I-1 Condition I 1 I 2
 I-2 Condition I 1 I 2
 I-3 Condition I 1 I 2 I 3 I 4 I 5
 I-4
- Mercantile
- Residential R-1 R-2 R-3 R-4
- Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
- Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$_____ + _____ + \dots = _____ \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1ST	MECH/RR	931 SQ. FT.	UNLIMITED	N/A	UNLIMITED

- ¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ _____ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4.
⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	40	14	
Building Height in Stories (Table 504.4) ³	1	1	

- ¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1.
³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/REDUCTION) *	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	N/A	0 HR					
Bearing Walls							
Exterior							
North	>30	0 HR					
East	>30	0 HR					
West	>30	0 HR					
South	>30	0 HR					
Interior	>30	0 HR					
Nonbearing Walls and Partitions							
Exterior walls							
North	>30	0 HR					
East	>30	0 HR					
West	>30	0 HR					
South	>30	0 HR					
Interior walls and partitions	>30	0 HR					
Floor Construction							
Including supporting beams and joists		0 HR					
Floor Ceiling Assembly		0 HR					
Columns Supporting Floors		0 HR					
Roof Construction, including supporting beams and joists		0 HR					
Roof Ceiling Assembly		0 HR					
Columns Supporting Roof		0 HR					
Shaft Enclosures - Exit	N/A						
Shaft Enclosures - Other	N/A						
Corridor Separation	N/A						
Occupancy/Fire Barrier Separation	N/A						
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Tenant/Dwelling Unit/Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30			

LIFE SAFETY SYSTEM REQUIREMENTS

- Emergency Lighting: No Yes
- Exit Signs: No Yes
- Fire Alarm: No Yes
- Smoke Detection Systems: No Yes Partial _____
- Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

- Life Safety Plan Sheet #: 62.1
- Fire and/or smoke rated wall locations (Chapter 7)
 - Assumed and real property line locations (if not on the site plan)
 - Exterior wall opening area with respect to distance to assumed property lines (705.8)
 - Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 - Occupant loads for each area
 - Exit access travel distances (1017)
 - Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 - Dead end lengths (1020.4)
 - Clear exit widths for each exit door
 - Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 - Actual occupant load for each exit door
 - A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 - Location of doors with panic hardware (1010.1.10)
 - Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 - Location of doors with electromagnetic egress locks (1010.1.9.9)
 - Location of doors equipped with hold-open devices
 - Location of emergency escape windows (1030)
 - The square footage of each fire area (202)
 - The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 - Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
				132" ACCESS AISLE	8' ACCESS AISLE	
PARKING LOT	10	20	0	2	2	2
TOTAL	10	20	0	2	2	2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	SPACE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
EXIST'G	0	0	0	0	N/A	0	0	0	N/A	0	0
NEW	1	3	0	1	1	2	0	1	1	1	1
REQ'D	1	2	0	1	1	1	0	1	1	1	1

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

HARNETT COUNTY HEALTH DEPARTMENT APPROVAL



P-0961



JDS Consulting
 ENGINEERING • DESIGN • ENERGY

CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

CODE SUMMARY

APP.B1

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)

Exempt Building: No Yes (Provide code or statutory reference): _____

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly) **FIBERGLASS SHINGLES OVER WOOD SHEATHING**
 Description of assembly: W/ R42 INSULATION AND 1/2" GWB.
 U-Value of total assembly: 0.22
 R-Value of insulation: R42
 Skylights in each assembly: _____
 U-Value of skylight: _____
 total square footage of skylights in each assembly: _____

Exterior Walls (each assembly) **LAP SIDING, RIGID INSULATION, WOOD STUDS,**
BATT INSULATION, 1/2" GWB.
 Description of assembly: _____
 U-Value of total assembly: 0.045
 R-Value of insulation: R13+R7.5
 Openings (windows or doors with glazing)
 U-Value of assembly: ENTRANCE DOOR, 0.77
 Solar heat gain coefficient: WINDOWS, 0.32
 projection factor: 0.25
 Door R-Values: _____

Walls below grade (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade
 Description of assembly: **4" THICK CONCRETE SLAB OVER 6MIL VAPOR BARRIER OVER 4" CRUSHED STONE BASE OVER COMPACTED EARTH FILL (ON GRADE)**
 U-Value of total assembly: 0.730
 R-Value of insulation: R15
 Horizontal/vertical requirement: 24" MIN. CONT. @ PERIMETER
 slab heated: N/A

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN
 (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
 Seismic (I_e) 1.0

Live Loads: Roof 20 psf
 Mezzanine N/A psf
 Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 116 mph (ASCE-7)
 Exposure Category B

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s 0.125 %g S₁ 0.065 %g

Site Classification (ASCE 7) A B C D E F
 Data Source: Field Test Presumptive Historical Data

Basic structural system Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity 2000 psf
 Pile size, type, and capacity _____

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
 (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
 summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
Boiler
 Size category. If oversized, state reason.: _____
Chiller
 Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
 (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive

Lighting schedule (each fixture type)
 lamp type required in fixture
 number of lamps in fixture
 ballast type used in the fixture
 number of ballasts in fixture
 total wattage per fixture
 total interior wattage specified vs. allowed (whole building or space by space)
 total exterior wattage specified vs. allowed

Additional Efficiency Package Options
 (When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 More Efficient HVAC Equipment Performance
- C406.3 Reduced Lighting Power Density
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy
- C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy Use in Service Water Heating

SEE
SHT.E1



P-0961

JDS Consulting
 ENGINEERING • DESIGN • ENERGY
 JDS Consulting PLLC, 8600 TP JERSEY CT, RALEIGH, NC 27617 919.480.1075
 INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET
JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

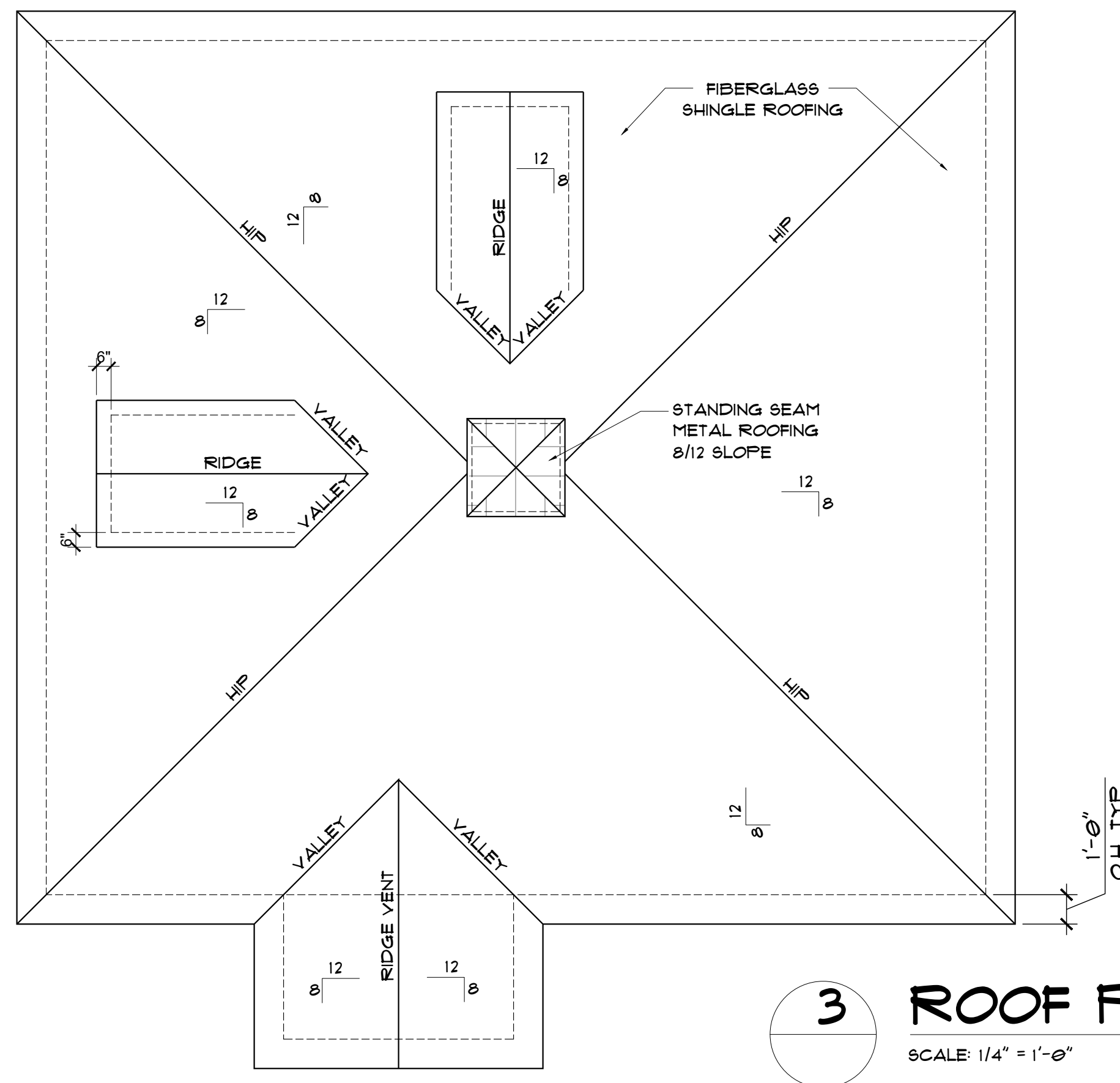
CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**
 SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

CODE SUMMARY

APP.B2



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

FINISH SCHEDULE

ROOM	WALLS	FLOOR	BASE	CEILING	CEILING HT.
MENS	CERAMIC TILE TO 48" A.F.F. FTD. GWB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
WOMENS	CERAMIC TILE TO 48" A.F.F. FTD. GWB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
PUMP ROOM	PAINTED M.R. GWB	SEALED CONCRETE	4: VINYL COVE	PAINTED M.R. BD	8'-0"
CHEM STORAGE	PAINTED M.R. GWB	SEALED CONCRETE	4: VINYL COVE	PAINTED M.R. BD	8'-0"
SHOWER	VINYL SIDING	SEALED CONCRETE	VINYL TRIM	VINYL SLAT	8'-0"

DOOR AND WINDOW SCHEDULE

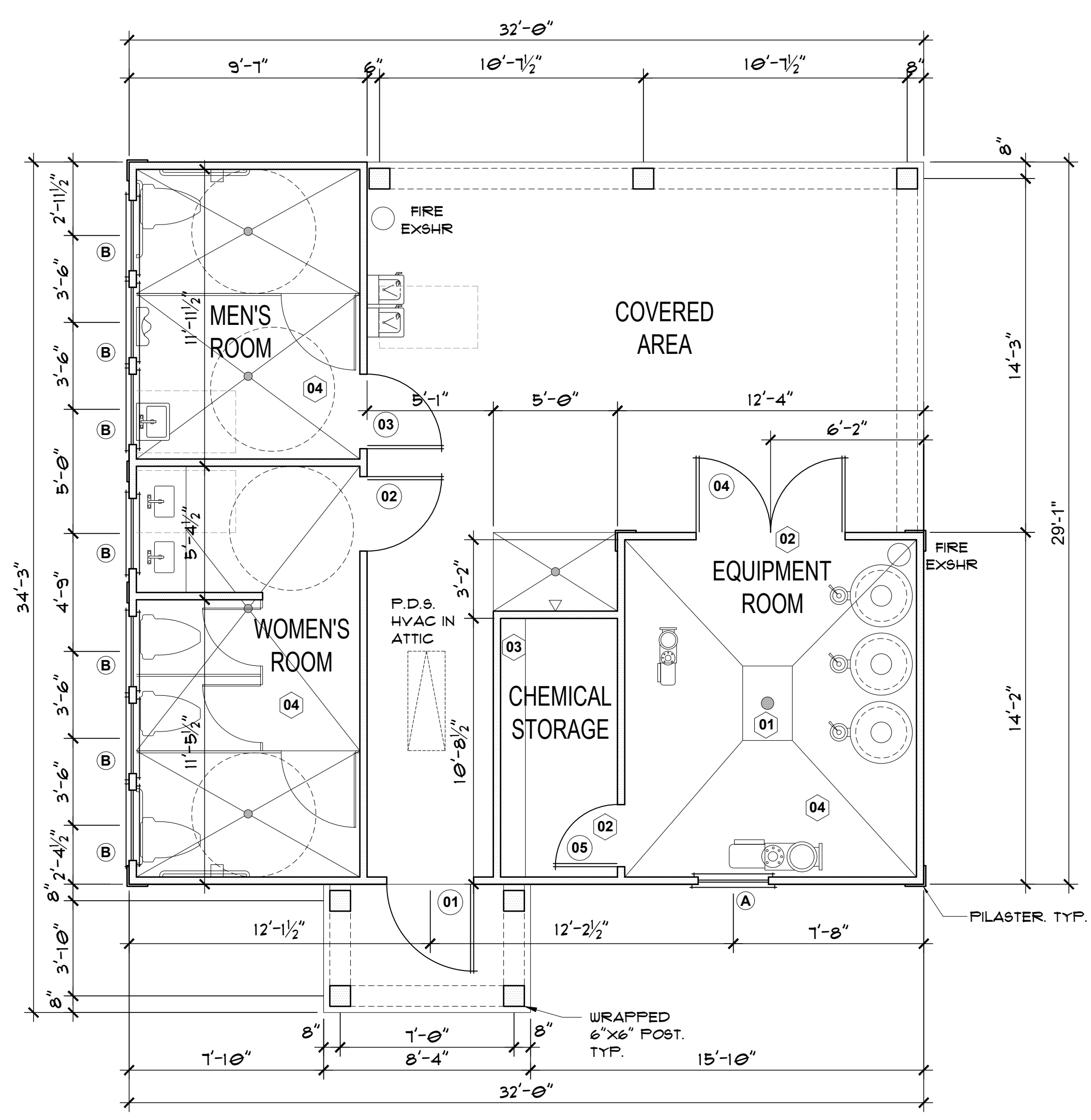
DOOR #	SIZE	TYPE	FRAME TYPE	HARDWARE	COMMENTS
01	3'-6" x 1'-0"	6 PANEL WOOD	HM	02	-
02	2'-6" x 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
03	3'-0" x 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
04	PAIR 3'-0" x 1'-0"	6 PANEL WOOD	HM	03	FULL LOUVERED DOOR
05	3'-0" x 1'-0"	6 PANEL WOOD	HM	04	BOTTOM PANEL TO BE LOUVERED
WINDOW A	34" x 54"	DOUBLE HUNG	WOOD		ADD OBSCURE GLAZING FILM
WINDOW B	34" x 18"	TRANSOM	WOOD		ADD OBSCURE GLAZING FILM

HARDWARE SETS

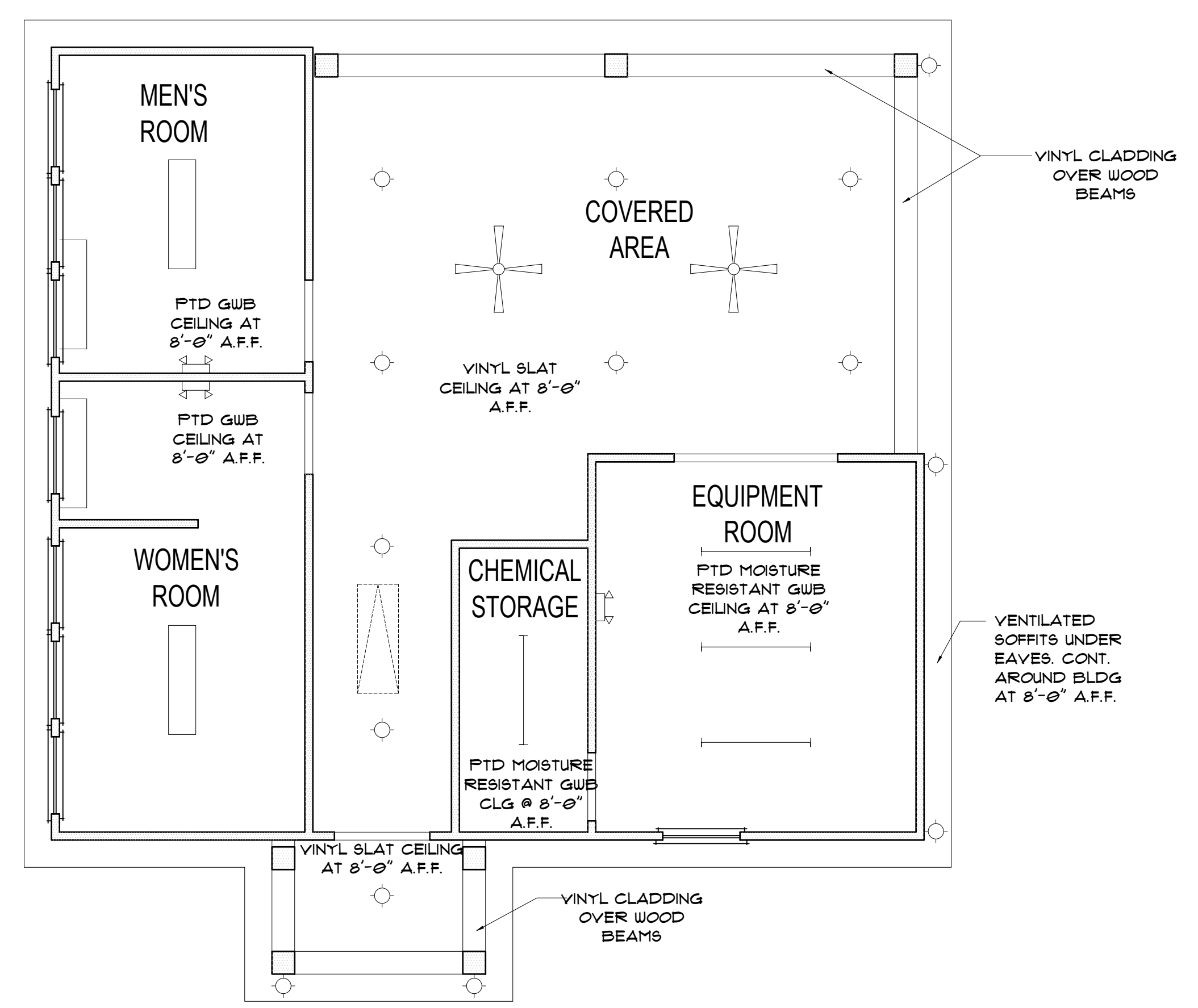
- 01 1 1/2 PR 4 1/2 x 4 1/2 99 BB BUTTS, PUSH PLATE, HC FULL, DEAD BOLT WITH HC LATCH ON INSIDE, CLOSER, THRESHOLD, MUTES AND WEATHERSTRIPPING, FLOOR STOP
- 02 1 1/2 PR 4 1/2 x 4 1/2 99 BB BUTTS, ENTRY DOOR LOCKSET WITH COMBINATION OR CARD READER, PANIC HARDWARE, THRESHOLD, MUTES AND WEATHERSTRIPPING
- 03 NOT USED
- 04 1 1/2 PR 4 1/2 x 4 1/2 99 BB BUTTS, PASSAGE DOOR LOCKSET, CLOSER, MUTES, WALL STOP
- 05 3 PR 4 1/2 x 4 1/2 99 BB BUTTS, PANIC BAR ON ACTIVE LEAF ON PUSH SIDE, ENTRY LOCKSET, TOP AND BOTTOM FLUSH BOLTS WITH SCREWS TO FIX INACTIVE LEAF IN CLOSED POSITION, CLOSERS, THRESHOLD, MUTES AND WEATHERSTRIPPING, FLOOR STOP

GENERAL NOTES

- 01 24" DEEP CONCRETE BUMP WITH 4" THICK WALLS AND FLOOR. COVER WITH 2" THICK FIBERGLASS GRATE. GRATE OPENING IN ON DIRECTION ARE NOT TO BE LESS THAN 1/2". SUPPORT GRATE WITH GALV. 2X2X1/4 ANCHORED TO WALLS WITH 1/2" DIA. X 2" LONG CONCRETE ANCHORS.
- 02 DOORS TO THE CHEMICAL STORAGE ROOM AND EQUIPMENT ROOM SHALL HAVE FLAGCARDS PER NFPA 704 ACCORDING TO THE HAZARDS PRESENT.
- 03 NON-CORROSIVE SHELF, SUPPORTED 16" ABOVE FLOOR ON 8" CMU'S
- 04 IN AREAS WITH FLOOR DRAINS, SLOPE FLOOR TO DRAIN



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



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



JDS Consulting
ENGINEERING · DESIGN · ENERGY
JDS Consulting PLLC, 8600 D JERSEY CT, RALEIGH, NC 27617 919.480.1075
INT:06@JDSCONSULTING.NET WWW.JDSCONSULTING.NET
JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

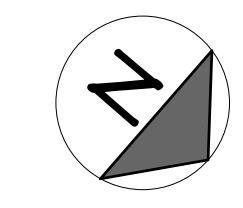
CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

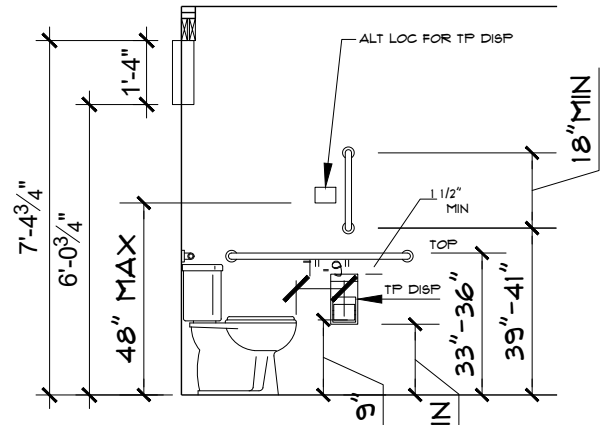
PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

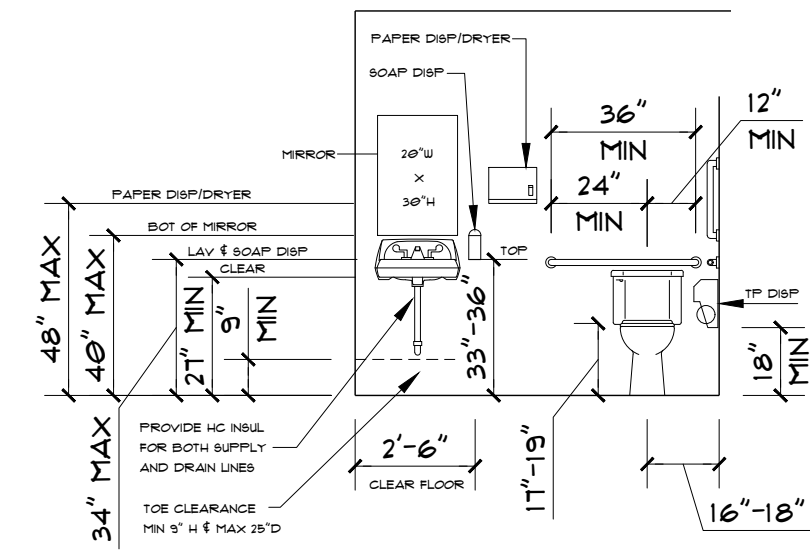
FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES

B1.0

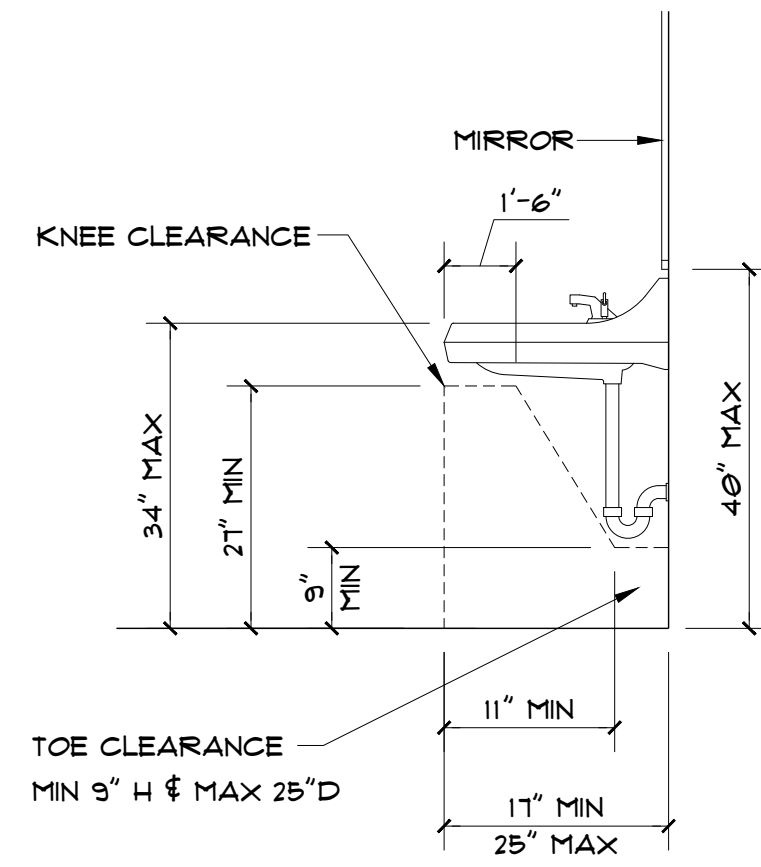




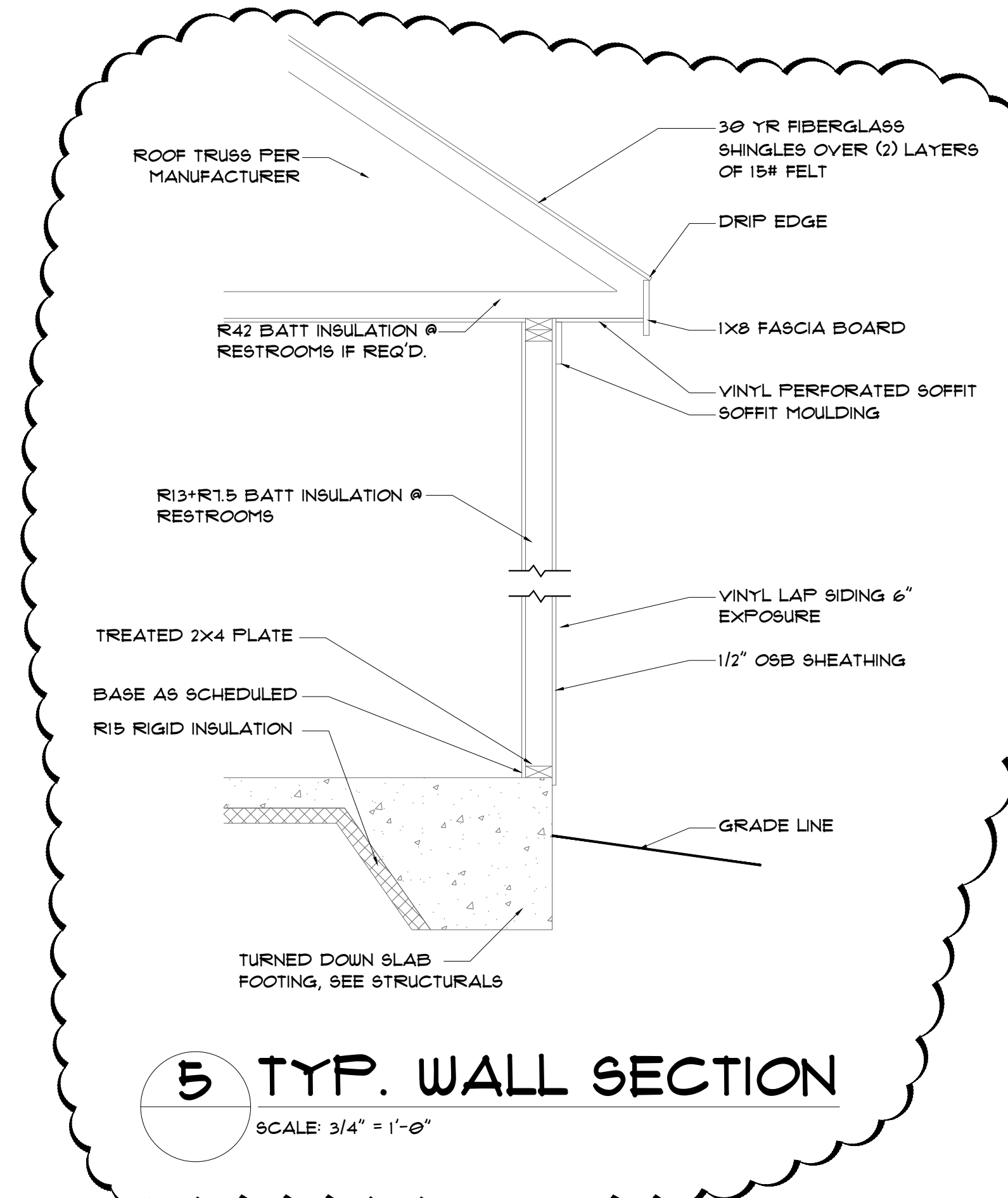
ELEVATION - 5



ELEVATION - 6



ELEVATION - 7



5 TYP. WALL SECTION
SCALE: 3/4" = 1'-0"

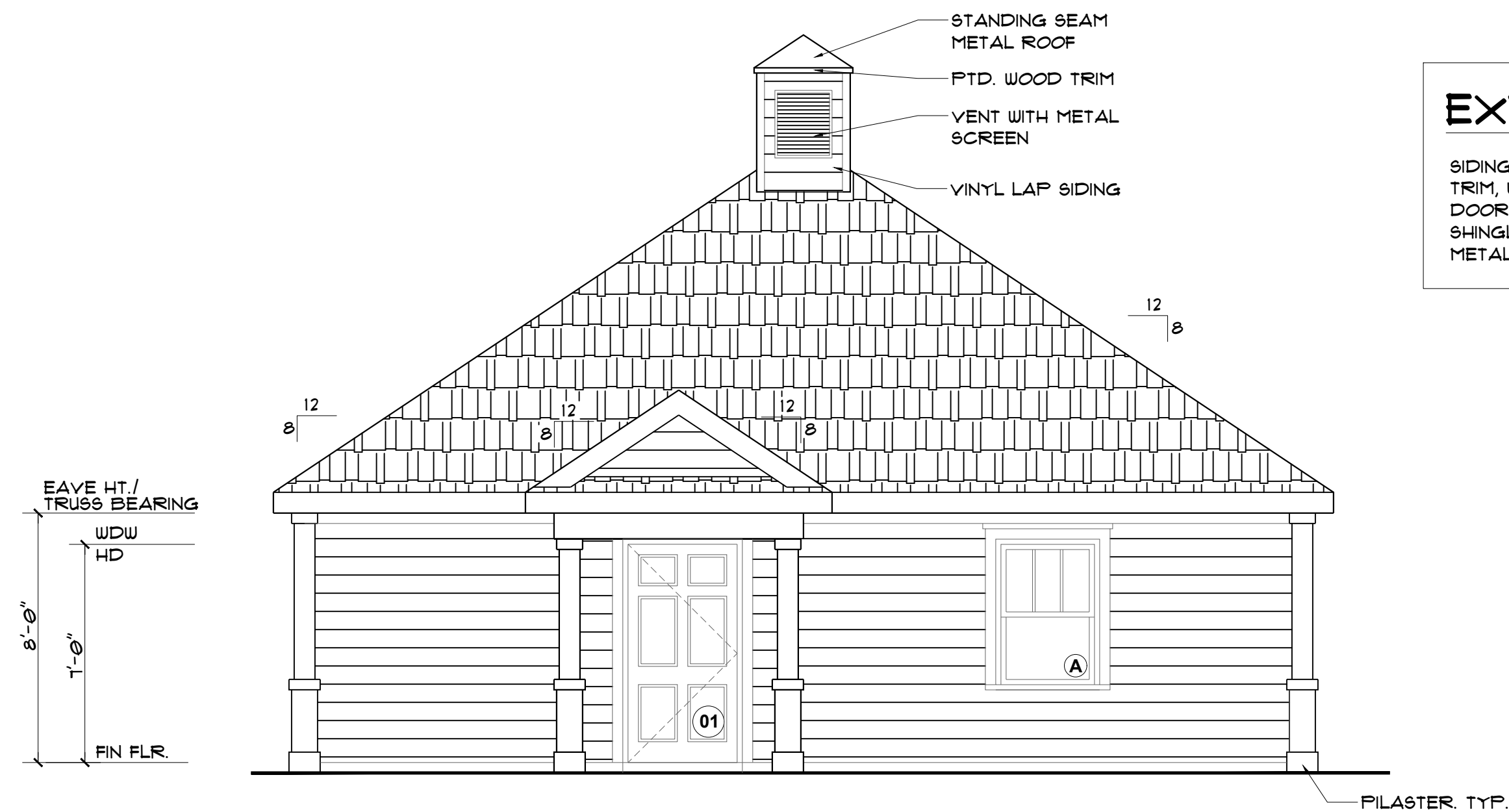
NOTE: FINISH DIMENSIONS

HC RESTROOM ELEVATIONS

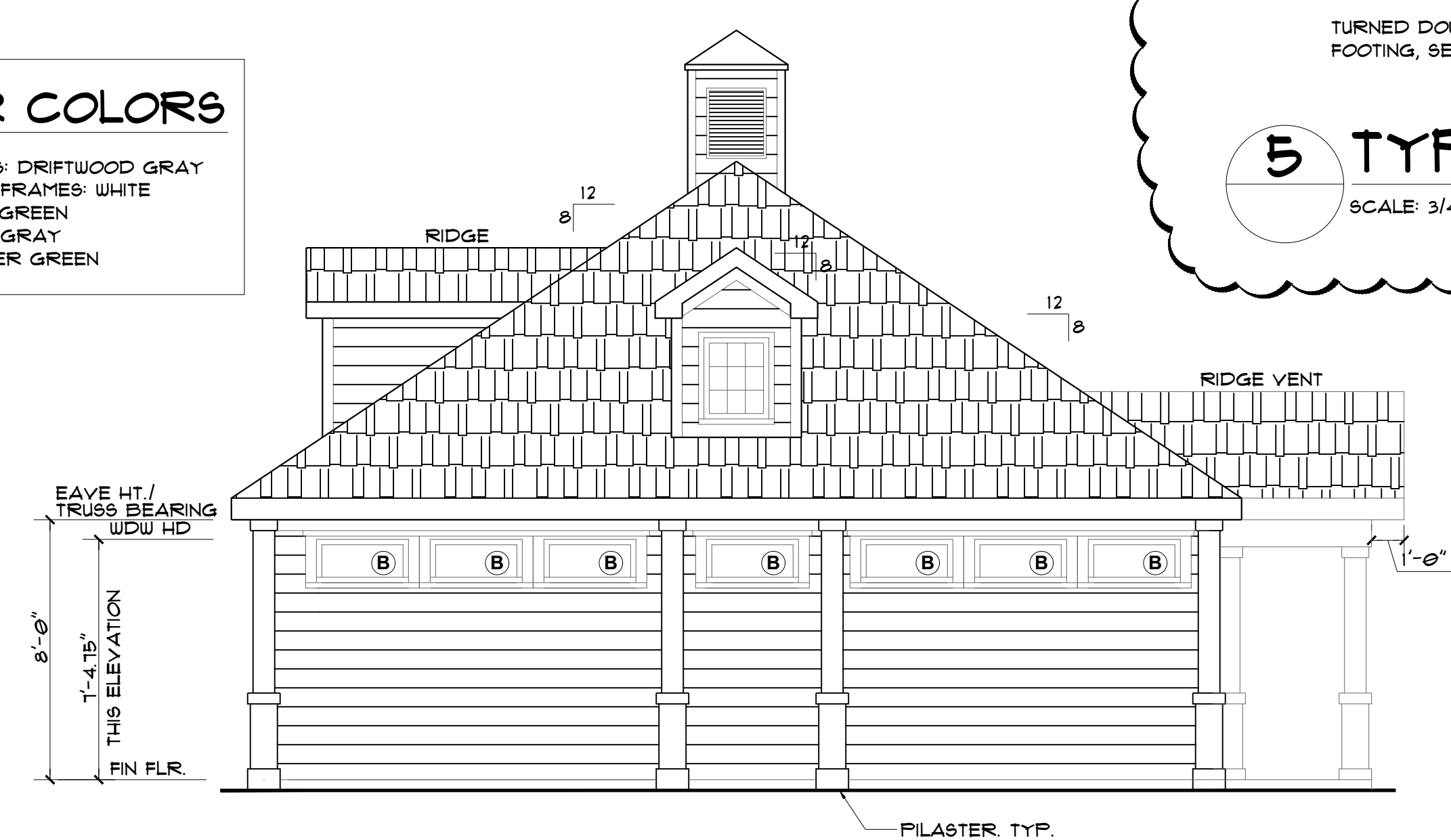
SCALE: N.T.S.

EXTERIOR COLORS

SIDING, COLUMN BASES: DRIFTWOOD GRAY
TRIM, WINDOWS, DOOR FRAMES: WHITE
DOOR LEAFS: HUNTER GREEN
SHINGLES: CHARCOAL GRAY
METAL ROOFING: HUNTER GREEN



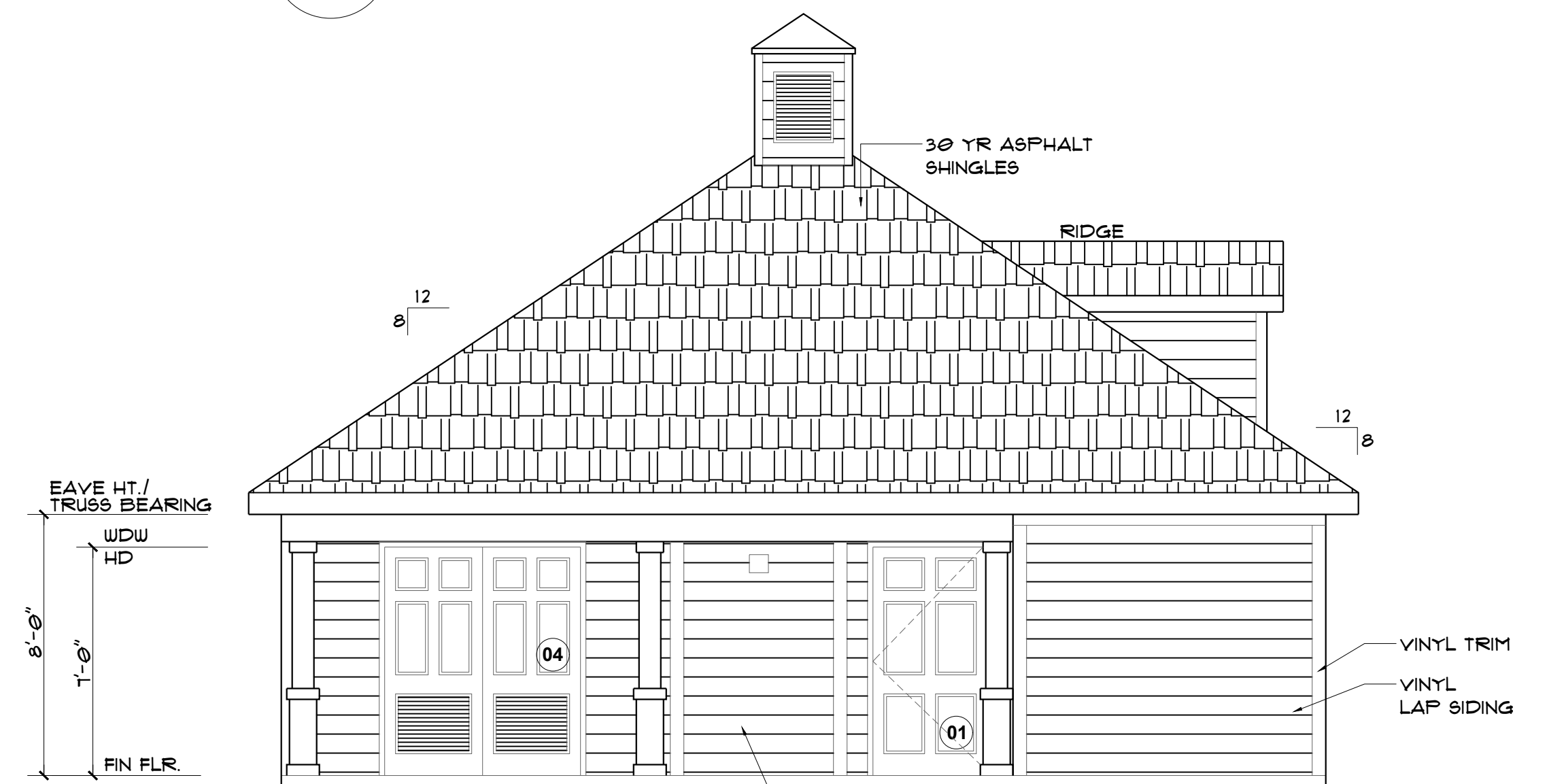
1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



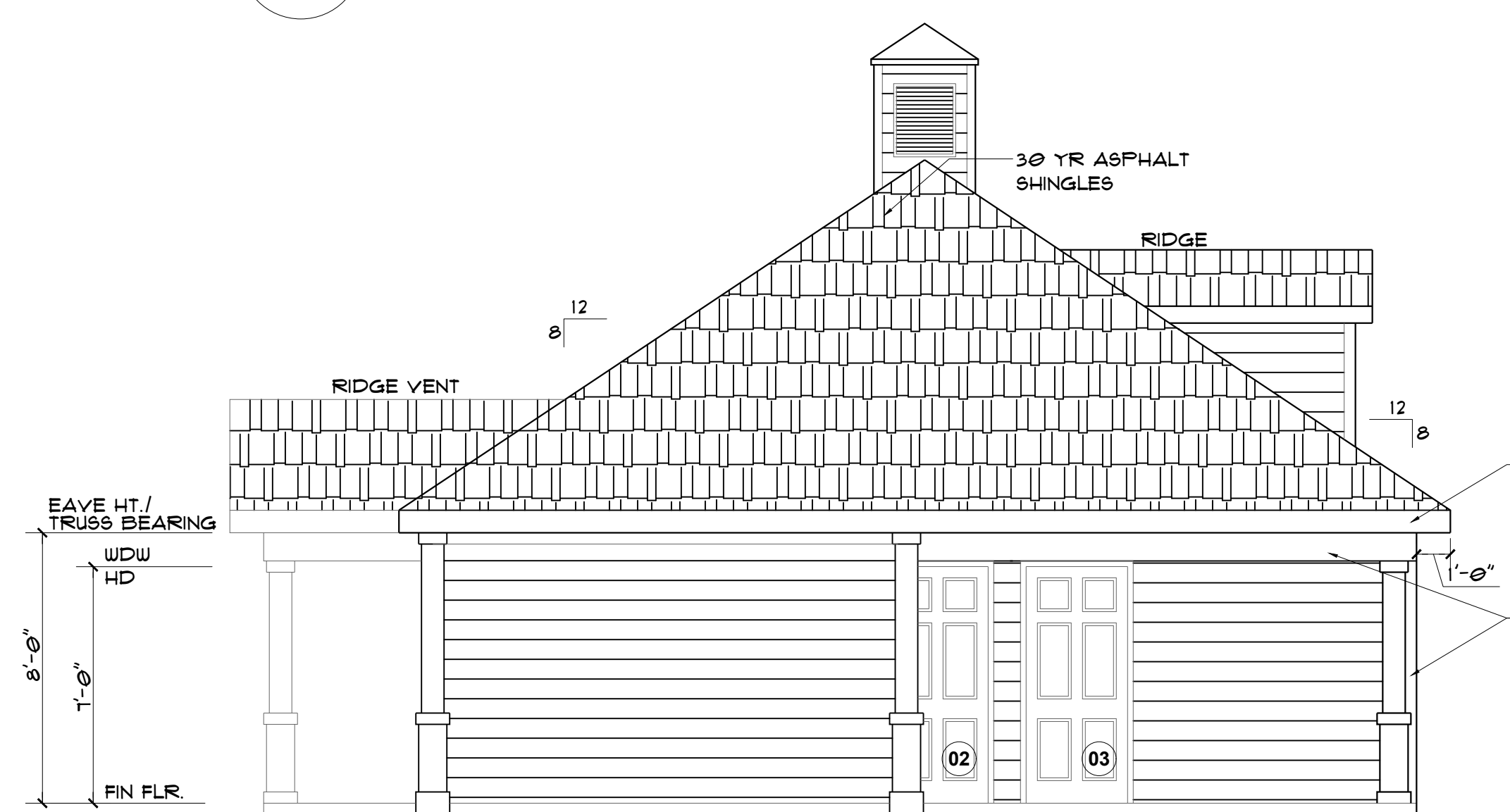
3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

232 SF AREA EAST ELEVATION

5.0 SF AREA - WINDOW 1
5.0 SF AREA - WINDOW 2
5.0 SF AREA - WINDOW 3
5.0 SF AREA - WINDOW 4
5.0 SF AREA - WINDOW 5
5.0 SF AREA - WINDOW 6
5.4 SF AREA - COLUMN
5.4 SF AREA - COLUMN
6.6 SF AREA - DORMER GLAZING
5.4 SF AREA - FILASTER 1
5.4 SF AREA - FILASTER 2
5.4 SF AREA - FILASTER 3
5.4 SF AREA - FILASTER 4
14 SF AREA - TOTAL 31.8%



2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



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



JDS Consulting
ENGINEERING · DESIGN · ENERGY

JDS Consulting PLLC, 8600 D JERSEY CT, RALEIGH, NC 27617 919.480.1075
INT:06@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

ELEVATIONS, RESTROOMS, WALL SECTION

B2.0



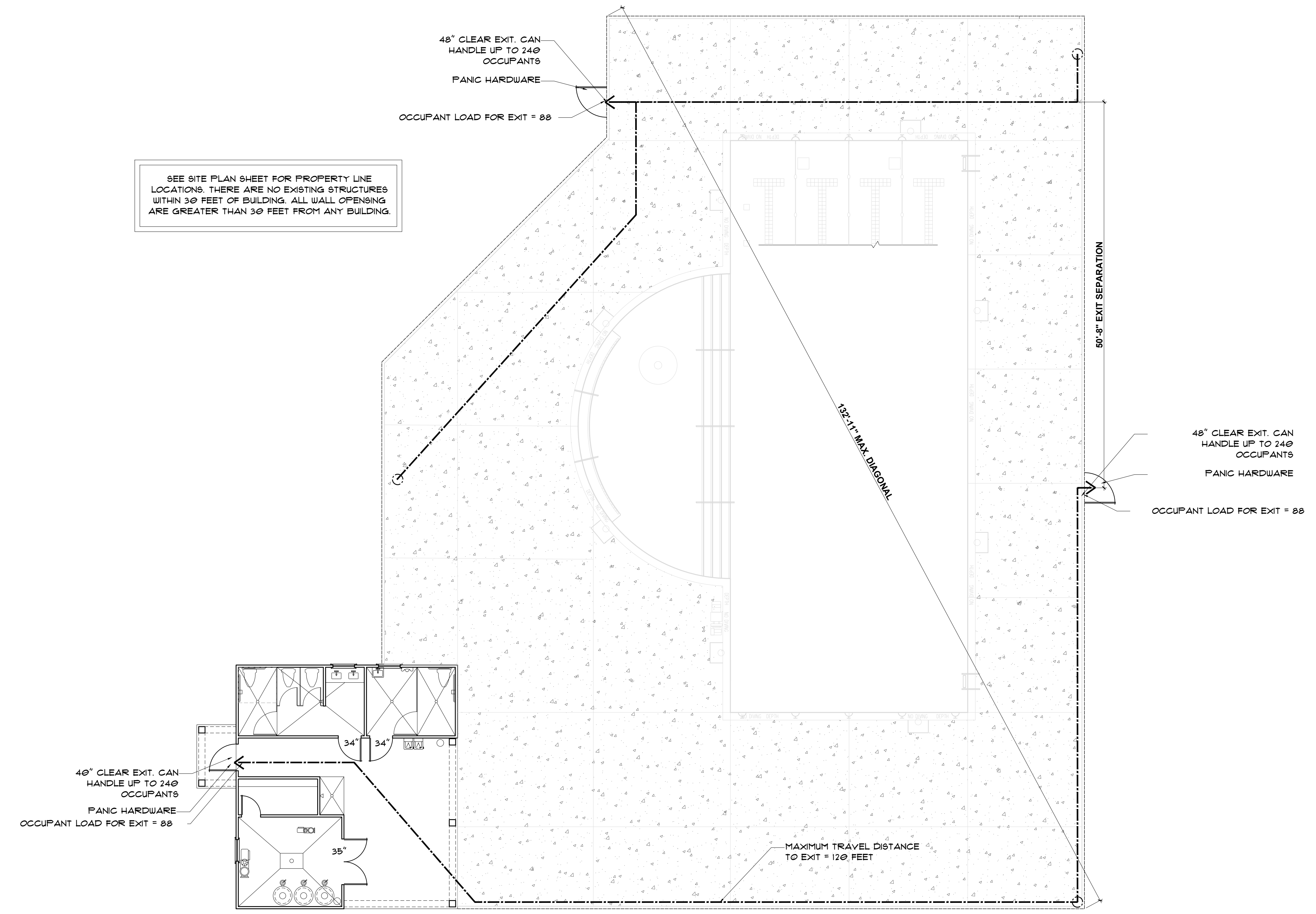
P-0961

JDS Consulting
ENGINEERING · DESIGN · ENERGY
JDS Consulting PLLC, 8600 D JERSEY CT, RALEIGH, NC 27617 919.480.1075
INT:06@JDSCONSULTING.NET; WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

POOL DECK OCCUPANCY REQUIREMENTS

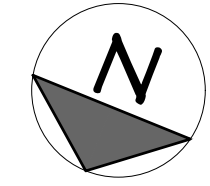
TOTAL POOL DECK AREA IS 4,734 SF. 8' MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,116 SF. GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,734 - 2,116 = 2,618 SF. DECK IS 2,618 SF AT 15 SF PER PERSON, DECK OCCUPANT LOAD IS 175. COVERED AREA IS 421 SF. AT 15 SF PER PERSON, COVERED AREA OCCUPANT LOAD IS 28. POOL AREA IS 2,969 SF. AT 50 SF PER PERSON, POOL OCCUPANT LOAD IS 60. TOTAL OCCUPANT LOAD OF 263 @ 2 EQUAL ST' OF EXIT REQUIRED. 3 EXITS REQ'D. MIN. OF 132" SWIM ON PLAN. REQUIRED EXIT SEPARATION EQUALS 1/2 THE 132" DIAGONAL, OR 66'. 90'-8" SHOWN ON PLANS.



SEE SITE PLAN SHEET FOR PROPERTY LINE LOCATIONS. THERE ARE NO EXISTING STRUCTURES WITHIN 30 FEET OF BUILDING. ALL WALL OPENINGS ARE GREATER THAN 30 FEET FROM ANY BUILDING.

1 LIFE SAFETY PLAN

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



CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

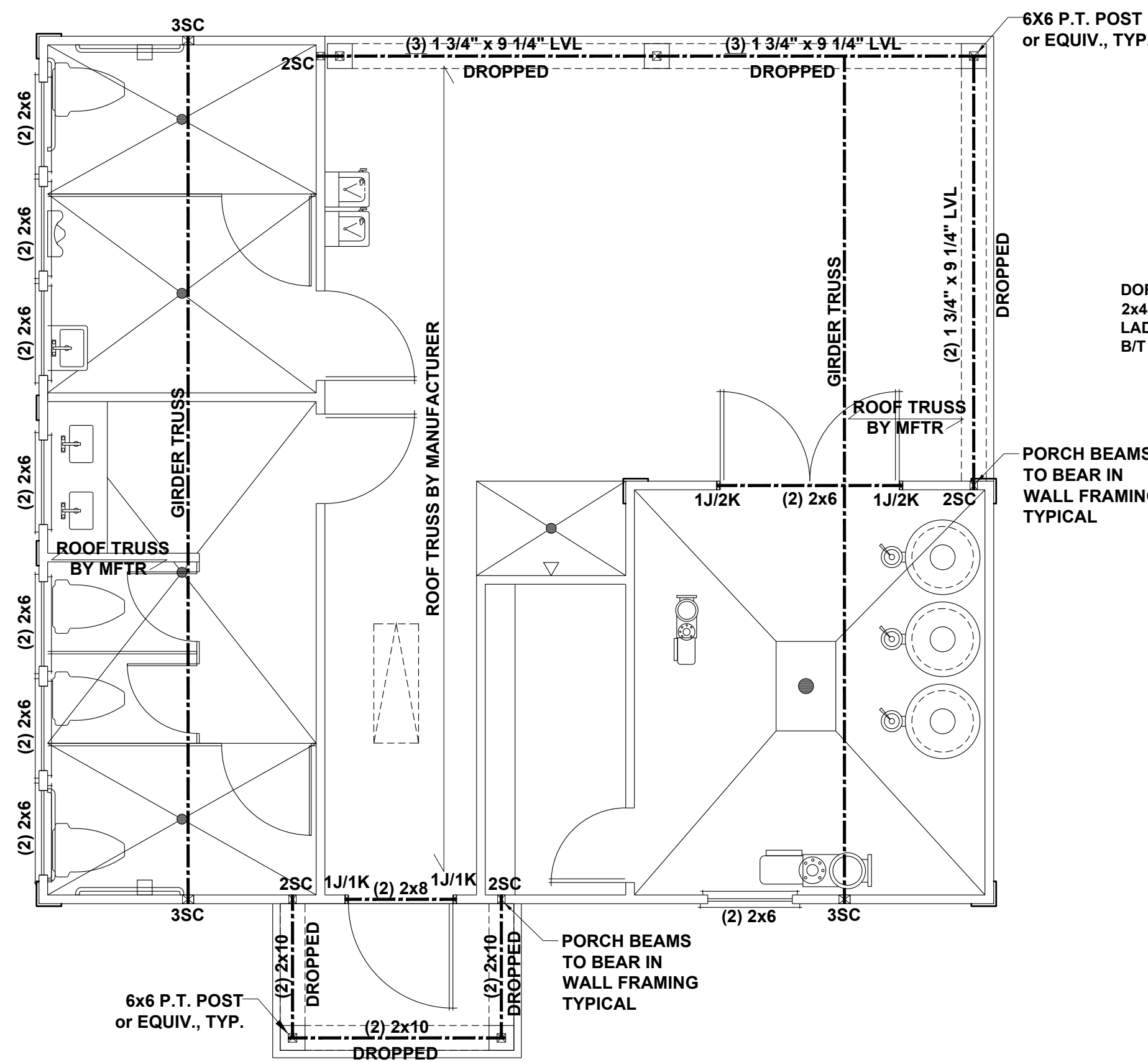
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER. NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

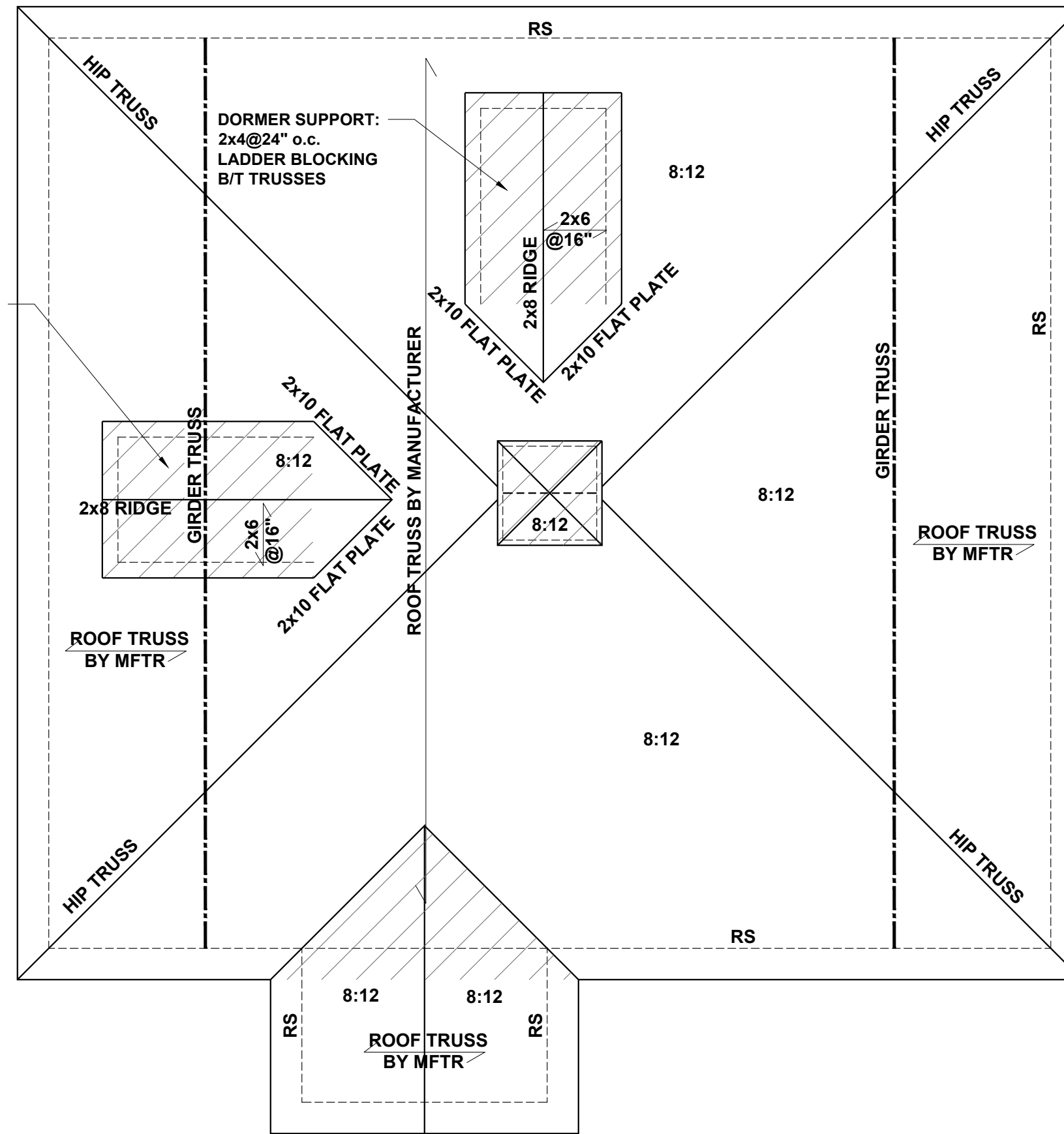
UL DETAILS

B2.1



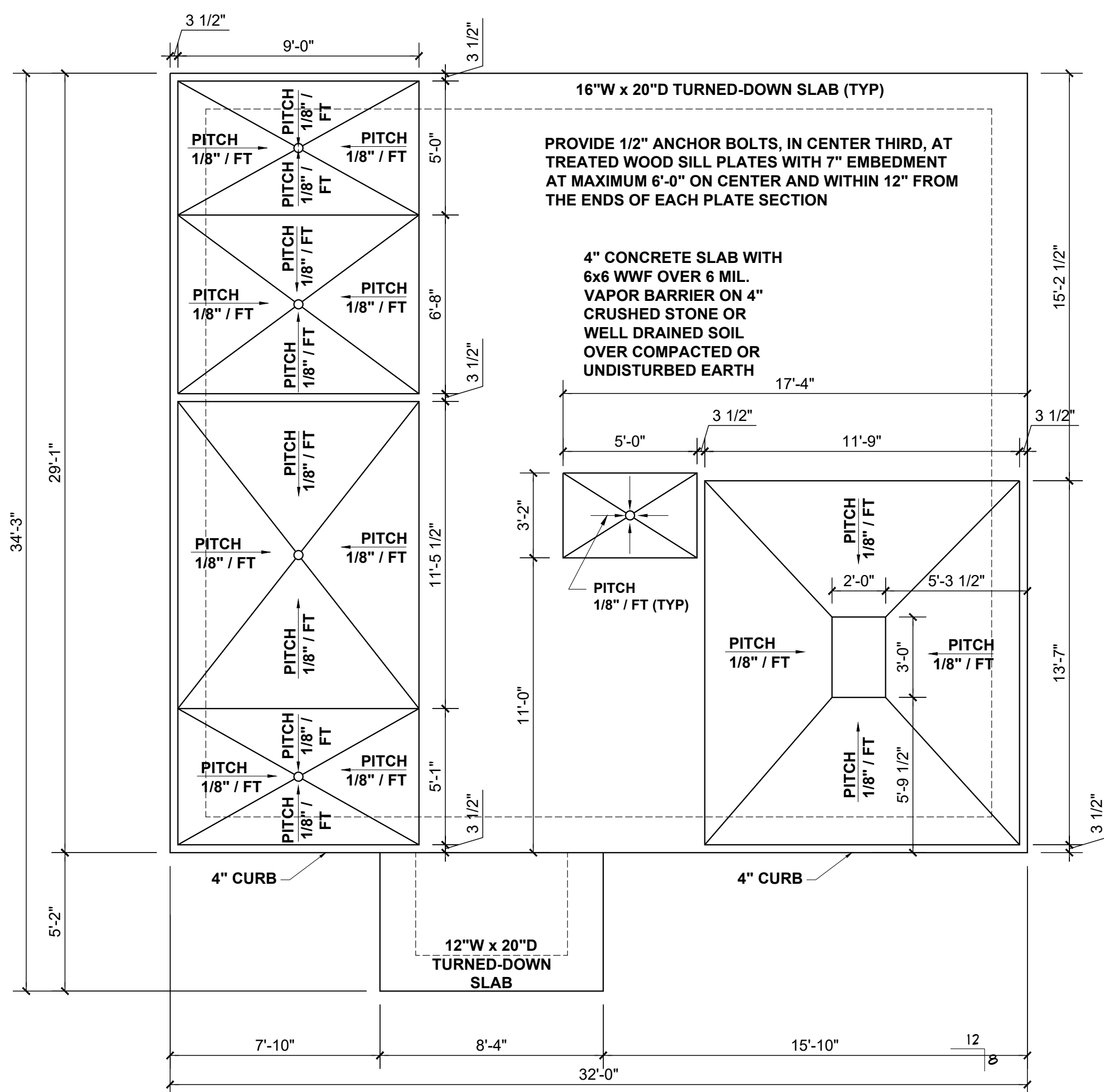
CEILING FRAMING PLAN

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



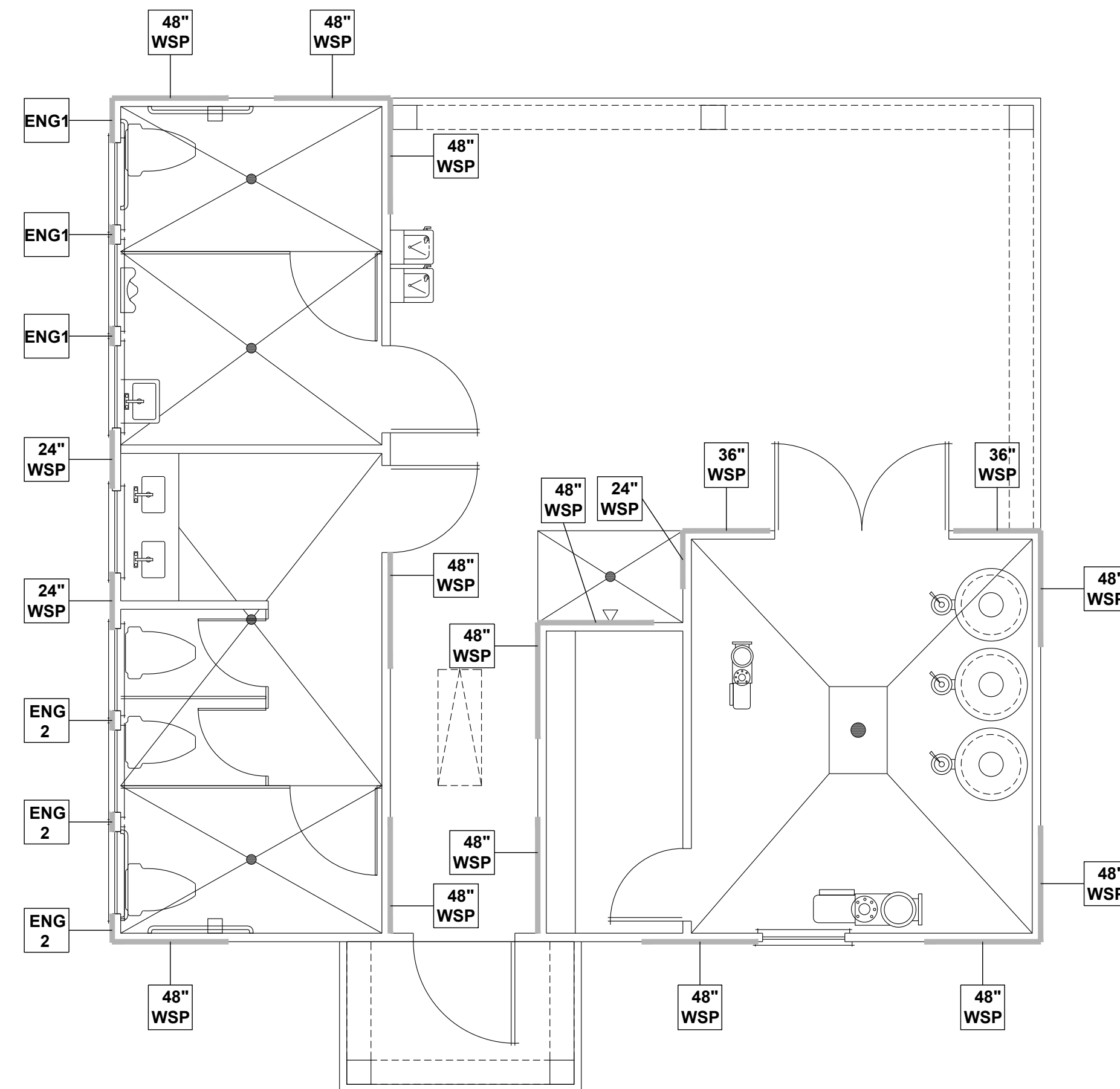
ROOF FRAMING PLAN

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



SLAB FOUNDATION PLAN

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

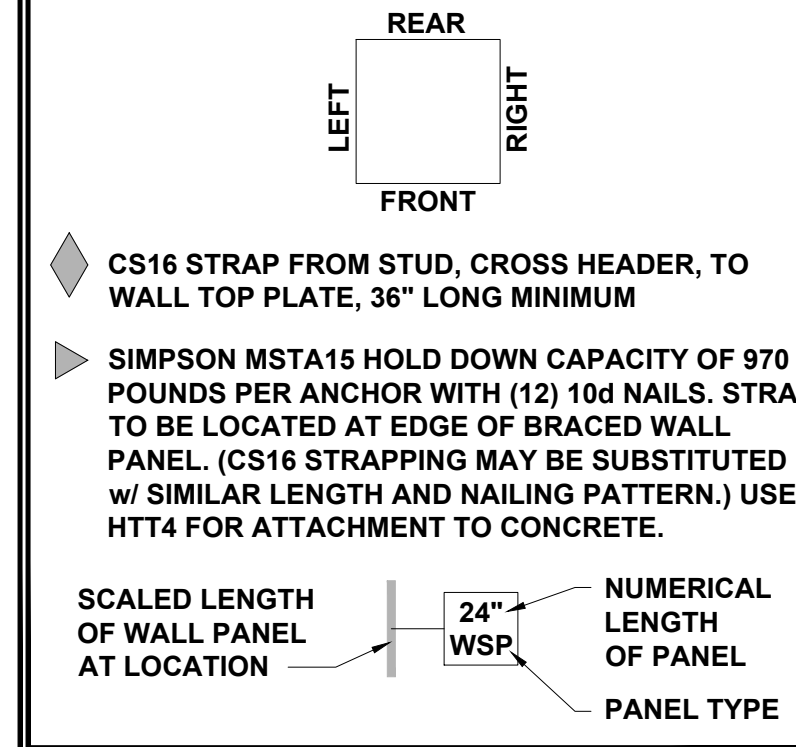


WALL BRACING PLAN

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

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



ENGINEERED WALL SCHEDULE

- ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

BEAM & POINT LOAD LEGEND

	INTERIOR LOAD BEARING WALL
	ROOF RAFTER / TRUSS SUPPORT
	DOUBLE RAFTER / DOUBLE JOIST
	STRUCTURAL BEAM / GIRDER
	WINDOW / DOOR HEADER
	POINT LOAD TRANSFER
	POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- #### STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)
- ALL FRAMING TO BE #2 SPF MINIMUM.
 - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
 - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
 - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
 - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
 - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
 - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
 - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
 - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
 - WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
 - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

- #### TRUSSED ROOF - STRUCTURAL NOTES
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - DENOTES OVER-FRAMED AREA
 - MINIMUM 7/16" OSB ROOF SHEATHING
 - TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
 - PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
 - UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NORS. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	5.0 FT.	12.0 FT.
RIGHT	5.0 FT.	12.0 FT.
REAR	5.0 FT.	14.0 FT.
LEFT	5.0 FT.	N/A



JDS Consulting
ENGINEERING • DESIGN • ENERGY

3600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS & DRAWINGS.

CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

FIRST FLOOR FRAMING PLAN

S1.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

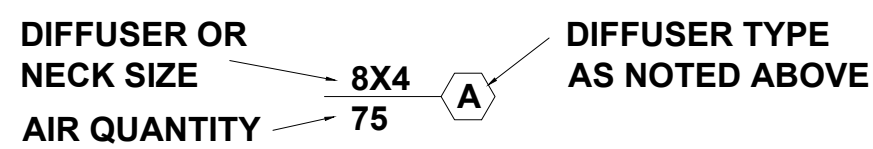
EXHAUST FAN SCHEDULE											
UNIT NO.	SERVICE	CFM	STATIC	RPM	TYPE	MIN. MOTOR HP & VOLTAGE	MAKE	MODEL #	DRIVE	CONTROL SCHEME	REMARKS
EF-1	RESTROOMS	225	0.1	1000	CEILING	813 WATTS/0.77A 120/1	GREENHECK	SP-A250	DIRECT	A	1-5
EF-2	PUMP ROOM	284	0.25	1577	IN-LINE	1/4 HP 120/1	GREENHECK	BSQ-70-4	BELT	B	1-6
EF-3	CHEM ROOM	129	0.25	1050	IN-LINE	1/4 HP 120/1	GREENHECK	BSQ-70-4	BELT	B	1-6

- NOTES**
- SCREEN
 - BACKDRAFT DAMPER
 - COLOR BY OWNER
 - INTEGRAL DISCONNECT SWITCH
 - SPEED CONTROLLER
 - CORROSION RESISTANT

- CONTROL OPTIONS**
- CONTROL W/ ROOM LIGHTS
 - CONTINUOUS OPERATION

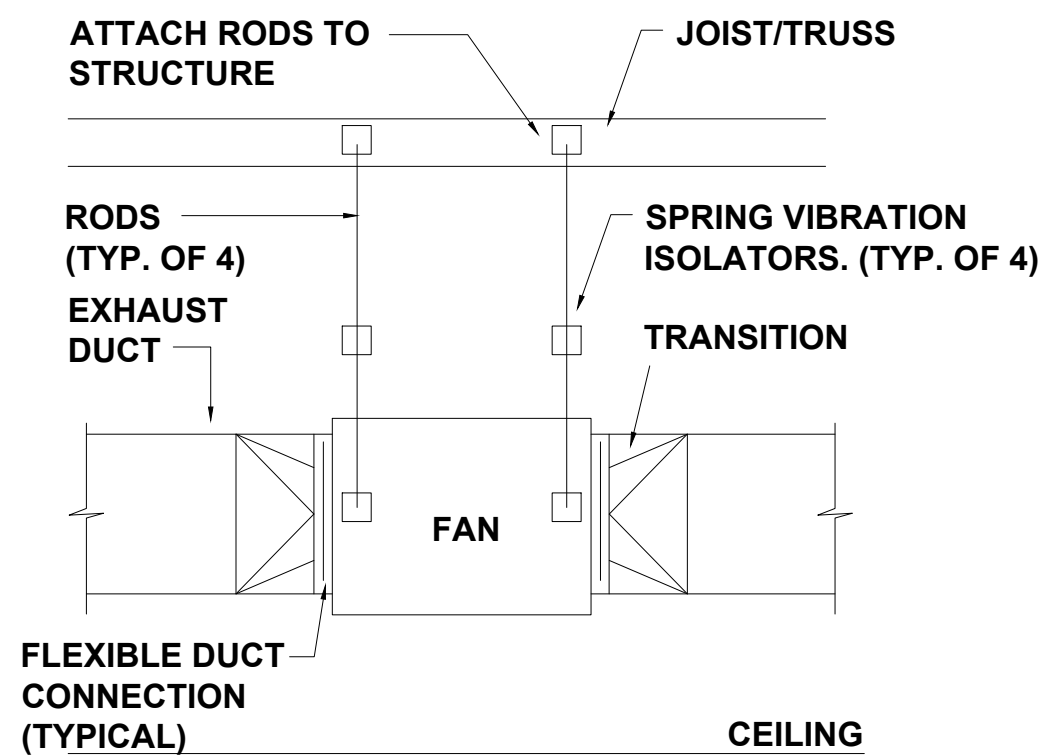
DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	AS NOTED	AS NOTED	12X12	SURFACE	EGGCRATE	NO	ALUM	RETURN	NOTE 2	TITUS 50F	1-3

- NOTES**
- DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:



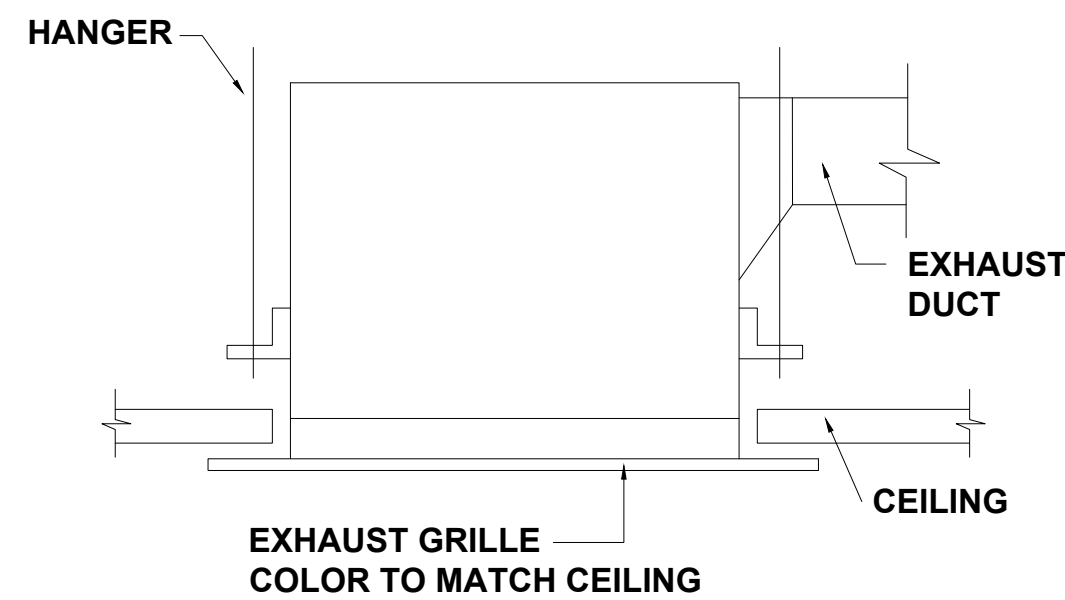
UNIT HEATER SCHEDULE									
TAG	LOCATION	TYPE	BTUH	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
				W	V	PH	HZ		
UH-1	BATHROOMS	ELEC	2,560	750	120	1	60	MARKEL E3321TTD-RP	ALL

- NOTES**
- INTERNAL THERMOSTAT
 - SURFACE MOUNT.
 - MOUNT HEATER @ 12" A.F.F.
 - UNIT DISCONNECT
 - U.L. LISTED



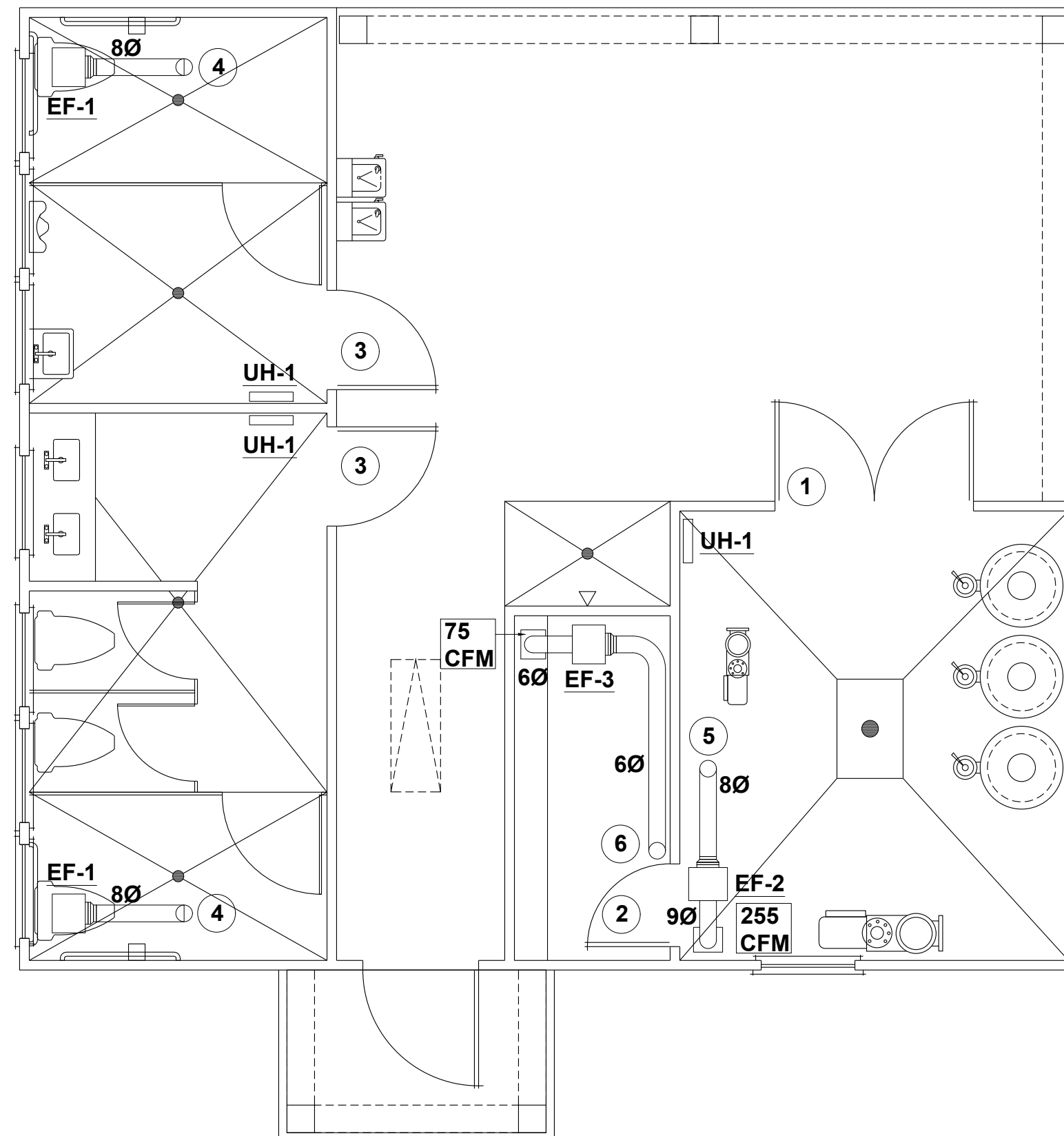
IN-LINE FAN DETAIL

NTS



EXHAUST FAN DETAIL

NTS



MECHANICAL FLOOR PLAN

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

MECHANICAL ABBREVIATIONS

- | | |
|-----|-----------------------|
| ABV | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| CFM | CUBIC FEET PER MINUTE |
| EF | ELECTRIC FAN |
| FA | FRESH AIR |
| HP | HEAT PUMP |
| TWH | INLINE WATER HEATER |

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSER.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK AND ALL ROUND DUCT SHALL MEET THE REQUIREMENTS OF INTERNATIONAL ENERGY CODE SECTION 503.
- CONDENSATE DRAIN PIPING SHALL BE HARD DRAWN COPPER (TYPE 'L'), PVC ACCEPTED.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED COUNTER-FLASHED IN A WATERPROOF MANNER. ALL PENETRATIONS IN WALLS OR CEILINGS THAT ARE FIRE RATED SHALL BE SEALED TO THE FIRE RATING OF WALL OR CEILING EVEN IF NOT SHOWN ON PLANS IN A UL LISTED METHOD.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.
- LOCATE ALL THERMOSTATS AND SWITCHES 48" AFF TO MEET ACCESSIBILITY CODE LATEST ADDITION.
- MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS.
- CONTRACTOR SHALL COORDINATE DESIGN DRAWINGS WITH ARCHITECTURAL DRAWINGS.

ADDITIONAL MECHANICAL NOTES

- CLEAR AREA DIMENSION. INTERIOR DUCT INSULATION MUST HAVE AN R-VALUE OF 5.0. ANY FLEX DUCT THAT RUNS OVER 10 FEET SHALL HAVE AN R-VALUE OF 6.0. ANY FLEX DUCT WHICH RUNS IN THE ATTIC SPACE SHALL HAVE AN R-VALUE OF 8.0. ALL DUCTWORK OUTSIDE BUILDING SHALL HAVE A MIN. R-8 VALUE.
- COORDINATE ELECTRICAL REQUIREMENTS OF THE UNITS WITH ELECTRICAL CONTRACTOR.
- PROVIDE RETURN AIR GRILL WITH FILTER.
- ALL EQUIPMENT AND DUCTWORK SHALL BE INSTALLED PER MANUFACTURER AND IN ACCORDANCE WITH STATE AND LOCAL CODES AS WELL AS SMACNA STANDARDS. ALL UNITS TO BE WIRED FOR SINGLE SOURCE POWER. ALL AHU SHALL HAVE AN AUTOMATIC SHUT DOWN SWITCH INSTALLED.
- BATHROOM TO BE EQUIPPED WITH EXHAUST FANS PROVIDED BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT TO OUTSIDE. FANS SHALL BE WIRED BY ELECTRICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO COORDINATE DUCTWORK LAYOUT WITH ALL TRADES.
- REFRIGERANT LINES TO BE SIZED BY MANUFACTURER FOR LENGTH OF RUN BETWEEN COIL AND CONDENSER.
- VERIFY THERMOSTAT LOCATIONS WITH OWNER.
- MECHANICAL SYSTEM TO BE BALANCED AND TESTED AFTER INSTALLATION TO ASSURE PROPER OPERATION.

POOL EXHAUST CALCULATIONS

PUMP ROOM
= 152 SQ FT X 10 FT = 1520 CU FT
10 AIR CHANGES/HOUR = 1520 X (10/60) = 254 CFM
(EF-2 PROVIDES 284 CFM)

CHEMICAL STORAGE ROOM
= 45 SQ FT X 10 FT = 450 CU FT
10 AIR CHANGES/HOUR = 450 X (10/60) = 75 CFM
(EF-3 PROVIDES 129 CFM)

TAGGED PLAN NOTES

- PUMP ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.83 SQFT. FULL HEIGHT LOUVERED DOOR, SEE ARCH. PLANS FOR DOOR DETAILS.
- CHEMICAL STORAGE ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.26 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
- BATHROOM DOOR REQUIRES A MIN. FREE AREA OF 0.45 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
- 8Ø EXH. DUCT TO EXHAUST THROUGH ROOF.
- 8Ø EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.
- 6Ø EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.



P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY

JDS Consulting PLLC, 3600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
INTL@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

CLIENT: **MATTAMY HOMES**
PROJECT: **PROVIDENCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

MECHANICAL PLAN

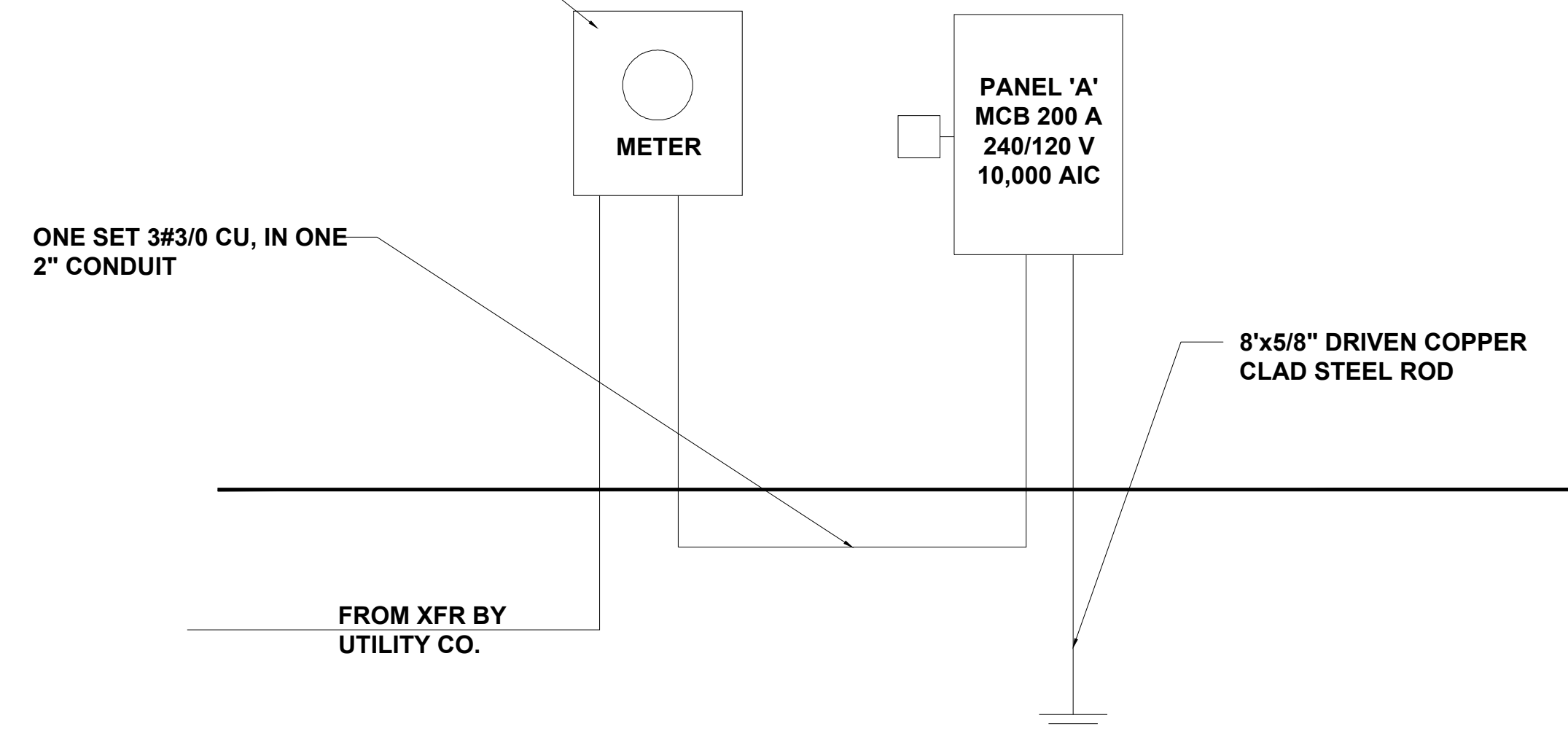
M1.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PANEL : A											
VOLTAGE (L-N): 120				ENCLOSURE TYPE: NEMA 3R							
VOLTAGE (L-L): 240				MOUNTING: SURFACE							
PHASES, WIRES: 1 φ. 3 W				AIC RATING: 22000							
MINIMUM BUS CAPACITY (A): 200 A				NOTES: ----							
MAIN O.C. DEVICE (A): 200 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				POLE	TRIP AMPS	DESCRIPTION	CKT NO.
				A	B						
1	LIGHTING GENERAL	20	1	600	400			1	20	REC: MEN,WOMEN	2
3	LIGHTING EXTERIOR	20	1		400	600		1	20	REC: EXTERIOR, PUMP	4
5	LIGHTING RESTROOM	20	1	500	800			1	20	REC: EWC	6
7	POOL LIGHTS	20	1		700	800		1	20	HVAC: UH-1	8
9	POOL LIGHTS	20	1	700	800			1	20	HVAC: UH-1	10
11	POOL LIGHTS (FUTURE)	20	1		700	800		1	20	HVAC: UH-1	12
13	POLE LIGHTS	20	1	700	360			2	20	POWER CENTER	14
15	SPACE	-	1		0	360		2	20	POWER CENTER	16
17	SPACE	-	1	0	360			1	20	EASY TOUCH	18
19	WH-1	35	2			3000	0	1	-	SPACE	20
21			2	3000	0			1	-	SPACE	22
23	H.C. LIFT CHARGER	20	1			200	0	1	-	SPACE	24
25	CHEMICAL FEED PUMP	20	1	400	0			1	-	SPACE	26
27	CHEMICAL CONTROLLER	20	1			200	0	1	-	SPACE	28
29	CHEMICAL CONTROLLER	20	1	200	0			1	-	SPACE	30
31	FOUNTAIN PUMP	30	2			3200	0	1	-	SPACE	32
33			2	3200	0			1	-	SPACE	34
35	SHUNT TRIP					0	0	1	-	SPACE	36
37	POOL PUMP	40	2	3100	0			1	-	SPACE	38
39			2			3100	0			1	-
41	SHUNT TRIP			0	0			1	-	SPACE	42
				CONNECTED LOAD PHASE TOTALS (VA)							
				15120		14060				DEMAND LOAD 31.88 KVA	
										SPARE CAPACITY 16.12 KVA	
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		SPARE CAPACITY 67.0 AMPS	
										SPARE CAPACITY 33%	
				LIGHTS 4.3		1.25		5.375			
				RECEPTACLES FIRST 10KVA 1.8		1		1.8			
				RECEPTACLES REMAINING -		0.5		-			
				HVAC UNIT HEATER 0.8		1.25		1			
				HVAC REMAINING 1.6		1		1.6			
				WATER HEATER 6		1.25		7.5			
				POOL EQUIP. 14.6		1		14.6			
				TOTAL: 29.1				31.88			
				LOAD (AMPS) 121				133			

LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	# OF LAMPS	LAMP TYPE	TOTAL WATTS	VOLTS	REMARKS	
A	LITHONIA	DMW 1 32 120 ES	SURFACE	1	F32W T8	36	120	48" T8 FLUORESCENT STRIP LIGHTING FIXTURE W/ ENCLOSED FIBERGLASS HOUSING	
B	LITHONIA	WC 2 32 120	SURFACE	2	F32W T8	64	120	48" GENERAL PURPOSE T8 FLUORESCENT WALL BRACKET LIGHTING FIXTURE	
C	LITHONIA	LB 232 120	SURFACE	2	F32W T8	64	120	4' LOW PROFILE WRAPAROUND FLUORESCENT LIGHTING FIXTURE WITH PRISMATIC ACRYLIC LENS	
F	HUNTER FANS	21955 FAN	CEILING	-	-	-	120	52" MARINER SERIES OUTDOOR WHITE CEILING FAN WITH PENDANT MOUNT WHERE REQ. COORD. MOUNTING HEIGHT WITH OWNER	
G	LITHONIA	AF 2 18TRT 6AR 120	RECESSED	2	CF 18W TRT	36	120	6" NOMINAL APERTURE RECESSED DOWNLIGHT WITH CLEAR ALZAC REFLECTOR, DAMP LABEL WHERE APPLICABLE	
L	SEAGULL	8920-12	SURFACE	1	CF 22W QUAD	26	120	EXTERIOR CARRIAGE STYLE WALL LANTERN WITH ACRYLIC PANELS, RATED FOR OUTDOOR USE. COORDINATE MOUNTING HEIGHT.	
EMC	LITHONIA	PS DL3 ELR	EXTERNAL	-	-	3	120/277	COMPACT FLUORESCENT EMERGENCY BATTERY PACK. PROVIDES ONE LAMP 90 MINUTE BATTERY BACKUP AT PARTIAL LUMEN OUTPUT	
EX	LITHONIA	LQM SW - R 120/277 EL N	UNIVERSAL	-	LED	< 1	120/277	THEROPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING. PROVIDE 90 MINUTE BATTERY BACKUP.	
EL	LITHONIA	ELM654 H1212	UNIVERSAL	2	H1212	54	120/277	SURFACE MOUNTED EMERGENCY LIGHT. MOUNT AT 80" AFF TO BOTTOM. PROVIDE WITH 90 MINUTE BATTERY BACKUP.	

METER BASE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, TO UTILITY REQUIREMENTS. METER PROVIDED AND INSTALLED BY UTILITY. MOUNT METER AT THE MINIMUM HEIGHT ABOVE FINAL GRADE. COORDINATE REQUIREMENTS WITH UTILITY



ELECTRICAL RISER

NTS



P-0961

JDS Consulting
 ENGINEERING • DESIGN • ENERGY
 JDS Consulting PLLC, 8600 TP JERSEY CT, RALEIGH, NC 27617 919.480.1075
 INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **23900139**

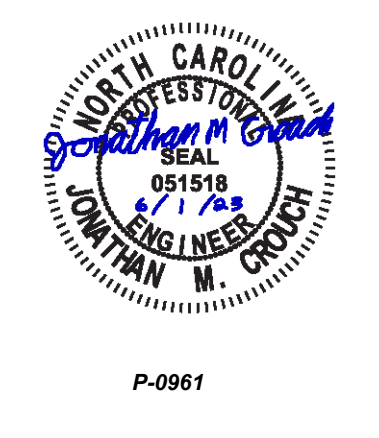
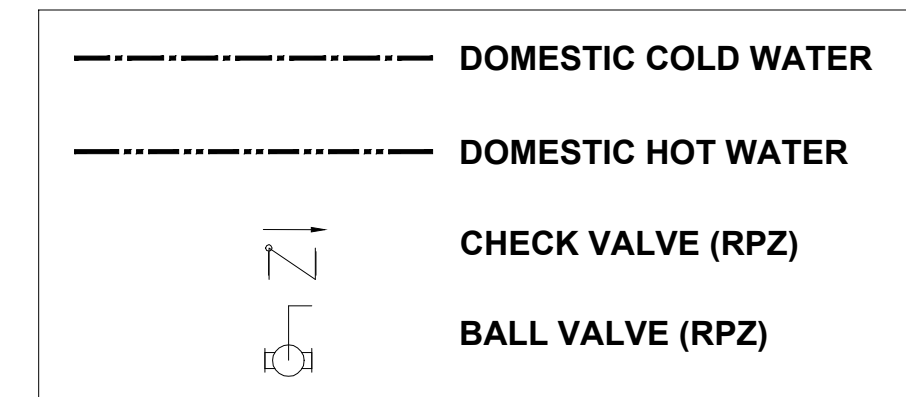
DATE: **05/31/2023** DRAWN BY: **FAB**

ELECTRICAL SCHEDULES

E1.1

PLUMBING ABBREVIATIONS

- ABV ABOVE
- AFF ABOVE FINISHED FLOOR
- HB HOSE BIBB
- REF REFRIGERATOR
- RPZ BACK FLOW PREVENTER
- TWH INLINE WATER HEATER
- VTR VENT THRU ROOF



P-0961

PLUMBING FIXTURE SCHEDULE

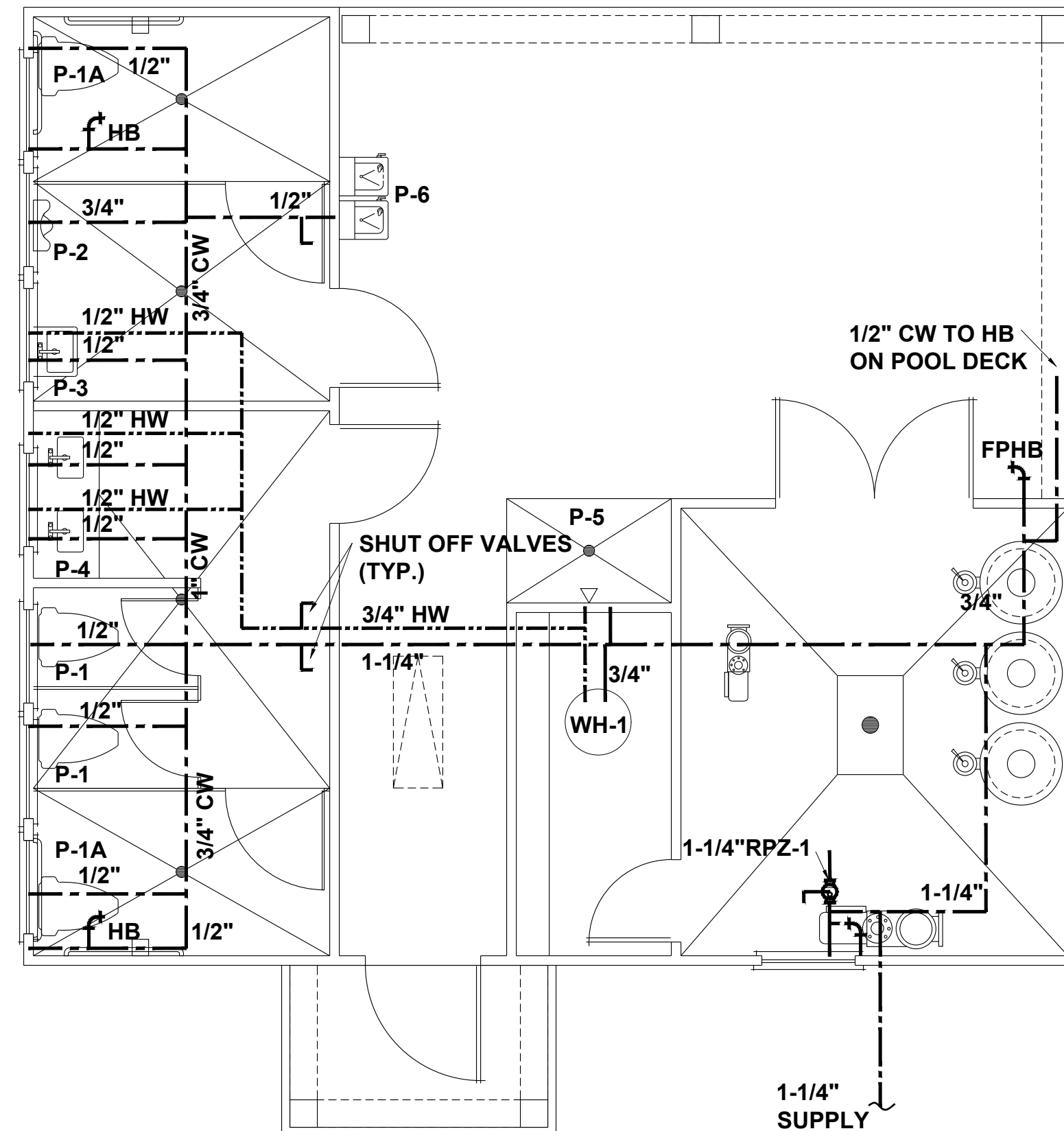
SYMBOL	FIXTURE	TYPE	MANUFACT.	MODEL	MATERIAL	STYLE	MANUFACT. MODEL NO.	FAUCET/VALVE			DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	NOTES
								SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
P-1	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	2435.012	VITREOUS CHINA	STANDARD ELONGATED	-	-	-	-	-	MCGUIRE 185	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID	
P-1A	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	2437.012	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	MCGUIRE 185	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID AT ADA HEIGHT	
P-2	URINAL	FLUSH VALVE	AMERICAN STANDARD	6541.132	VITREOUS CHINA	ADA ELONGATED	SLOAN ROYAL 186-1-ADA	-	-	-	-	-	3"	1-1/2"	3/4"	-	WALL	MOUNT AT REQUIRED ADA HEIGHT	
P-3	LAVATORY	WALL HUNG	AMERICAN STANDARD	355.012	VITREOUS CHINA	ADA COMPLIANT	MOEN 8894	CENTERSET	SINGLE LEVER	4"	GRID	1-1/2"	MCGUIRE 175	2"	1-1/2"	1/2"	1/2"	WALL HUNG	MOUNT AT ADA HEIGHT METERING FAUCET PROVIDE SHOCK ARRESTOR
P-4	LAVATORY	SINGLE COMP'T	AMERICAN STANDARD	476.028	VITREOUS CHINA	ADA OVAL	MOEN 8894	CENTERSET	SINGLE LEVER	4"	GRID	1-1/2"	MCGUIRE 175	2"	1-1/2"	1/2"	1/2"	COUNTER TOP	MOUNT AT ADA HEIGHT METERING FAUCET PROVIDE SHOCK ARRESTOR
P-5	SHOWER	BY G.C.	-	-	-	ADA 58"x38"	WM-442-ADA	-	SINGLE LEVER	-	INTEGRAL	2"	-	2"	1-1/2"	1/2"	1/2"	FLOOR	PRESSURE BALANCE VALVE, SHOWER HEAD, ARM, FLANGE, & DRAIN
P-6	WATER COOLER	DOUBLE STATION	ELKAY	VRCTLFR8SC	STAINLESS STEEL	ADA COMPLIANT	-	-	-	-	1-1/2"	MCGUIRE 165	2"	1-1/2"	1/2"	1/2"	WALL	MOUNT AT ADA HEIGHT FROST RESISTANT VANDAL RESISTANT	
WH-1	WATER HEATER	ELECTRIC	RHEEM	PROE38 S2 RH95	GLASS LINED	LOWBOY	-	-	-	-	-	-	-	-	3/4"	3/4"	PLATFORM	38 GALLONS, 6.0 KW, 240V, 1.28 GPM REC AT 90F RISE. DRAIN PAN. SET TO 105F	
FD	FLOOR DRAIN	SQUARE TOP	J.R.SMITH	2010	PVC	NIKALOY	-	-	-	-	-	-	-	-	-	-	FLOOR		
WCO	WALL CLEAN-OUT	ROUND COVER	J.R.SMITH	4472	PVC	S.S. COVER	-	-	-	-	-	-	-	-	-	-	WALL		
HB	HOSE BIBB	STANDARD	WOODFORD	24P	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	1/2"	-	WALL	W/ PERMANENT VACUUM BREAKER	
FPHB	HOSE BIBB	FREEZE PROOF	WOODFORD	25	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	1/2"	-	WALL	COORD. W/ WALL THICKNESS W/ PERMANENT VACUUM BREAKER	

PLUMBING NOTES

- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE PLUMBING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY AND APPLICABLE NFPA CODES. INSULATE DOMESTIC COLD & HOT WATER PIPING. PATCH EXISTING INSULATION WHERE DAMAGED UNDER CONSTRUCTION AND WHERE NEW CONNECTIONS ARE MADE.
- THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, BONDS, PROPERTY ASSESSMENTS AND FACILITIES CHARGE SHALL NOT BE CONSTRUED TO BE A PART OF THIS CONTRACT.
- ALL MATERIALS AND EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF TURNOVER OF THE WORK TO THE OWNER.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WORK WITH THE CONTRACTORS OF OTHER TRADES, AND COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING PERMITS.
- INSTALL ANY GAS PIPING IN ACCORDANCE WITH CURRENT GAS CODES, REQUIREMENTS OF LOCAL GAS SUPPLIER AND N.B.F.U.
- DOMESTIC WATER PIPE AND FITTINGS INSIDE BUILDINGS SHALL BE TYPE L COPPER BELOW AND ABOVE GRADE, JOINTS SHALL BE 95/5 SOLDER.
- FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING, PROVIDE A DEVICE(S) OR SYSTEM(S) PENETRATED.
- ALL PLUMBING FIXTURES ARE TO BE EQUIPPED WITH WATER HAMMER ARRESTORS AS PER PLUMBING CODE 604.9. ARRESTORS ARE EXEMPT IF PLASTIC PIPE USED, PC 604.9 PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY.
- ALL PLUMBING MATERIALS USED WILL COMPLY WITH THE LATEST PLUMBING CODE.
 - ANY ABOVE-GROUND DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.1
 - ANY UNDERGROUND SANITARY DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.2
 - ANY WATER SERVICE PIPE SHALL COMPLY WITH SECTION 605.3
 - ANY WATER DISTRIBUTION PIPE SHALL COMPLY WITH SECTION 605.4
- ALL PIPING ABOVE TOP PLATE, OR OUTSIDE THERMAL ENVELOPE, SHALL BE INSULATED TO A MINIMUM OF R6.5 WITHOUT EXCEPTION. ALL PLUMBING LOCATED IN WALL SHALL BE ON WARM SIDE OF INSULATION.

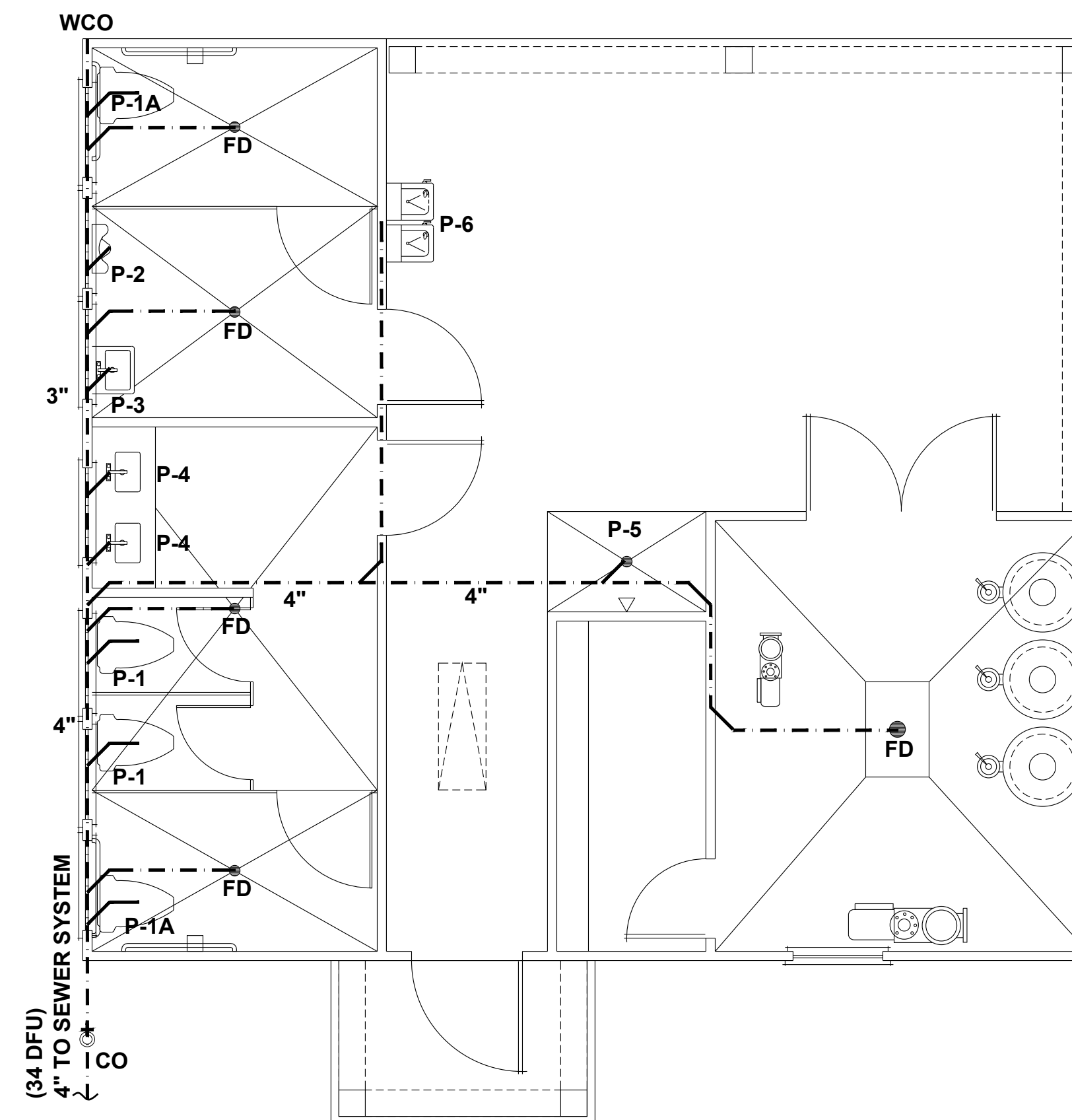
MATERIAL SPECIFICATIONS

- PIPE INSULATION: DG TURBOLIT FOAM PIPE INSULATION
- WASTE: SCHEDULE 40 PVC
- VENT: SCHEDULE 40 PVC
- DOMESTIC WATER: COPPER / PEX / CPVC



SUPPLY PLAN

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



WASTE PLAN

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

JDS Consulting
ENGINEERING · DESIGN · ENERGY

JDS Consulting PLLC, 8600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**

PROJECT: **PROVINCIE CREEK AMENITY CENTER & POOL**

LOCATION: **196 PROVINCIE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

PLUMBING PLANS

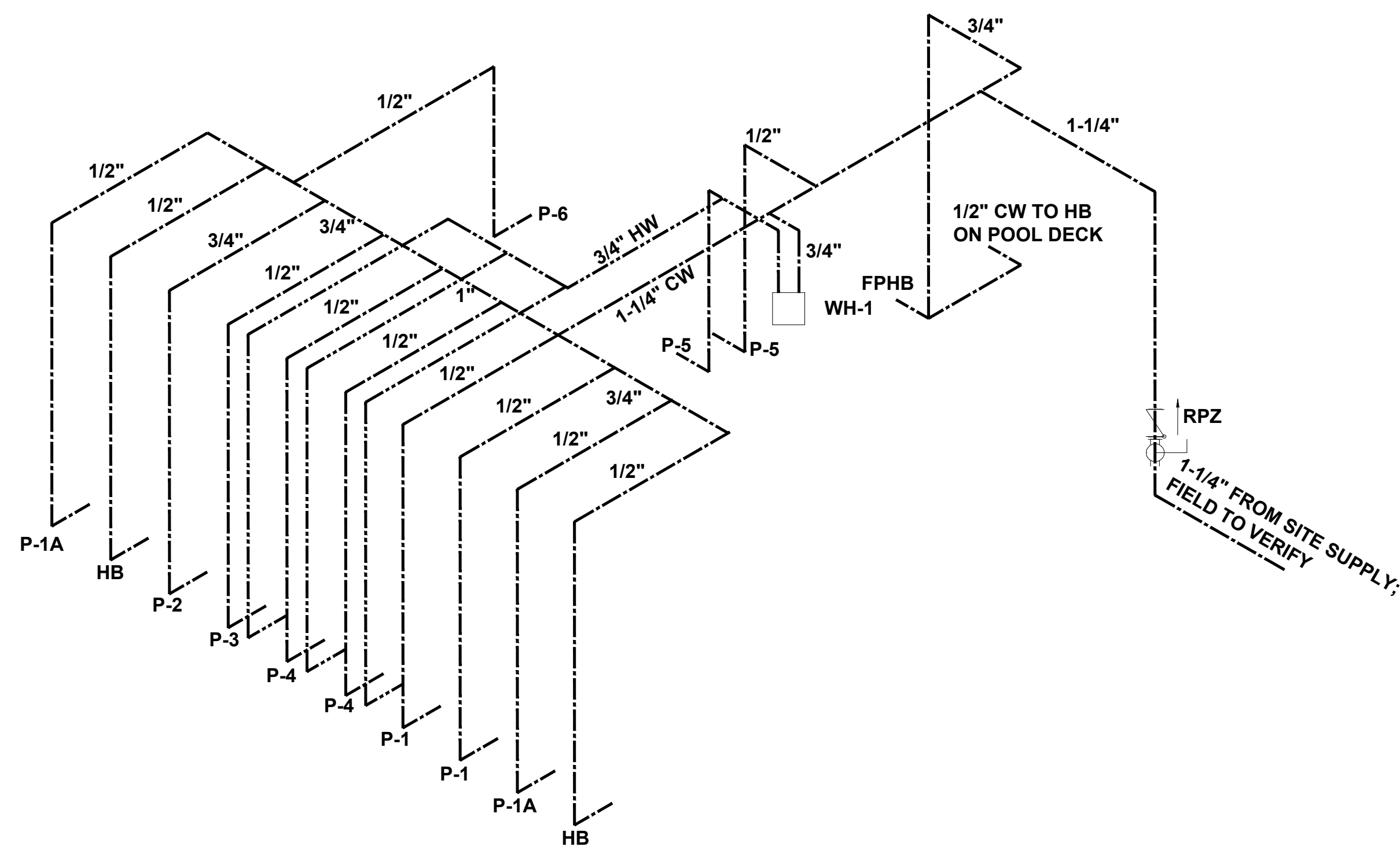
P1.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

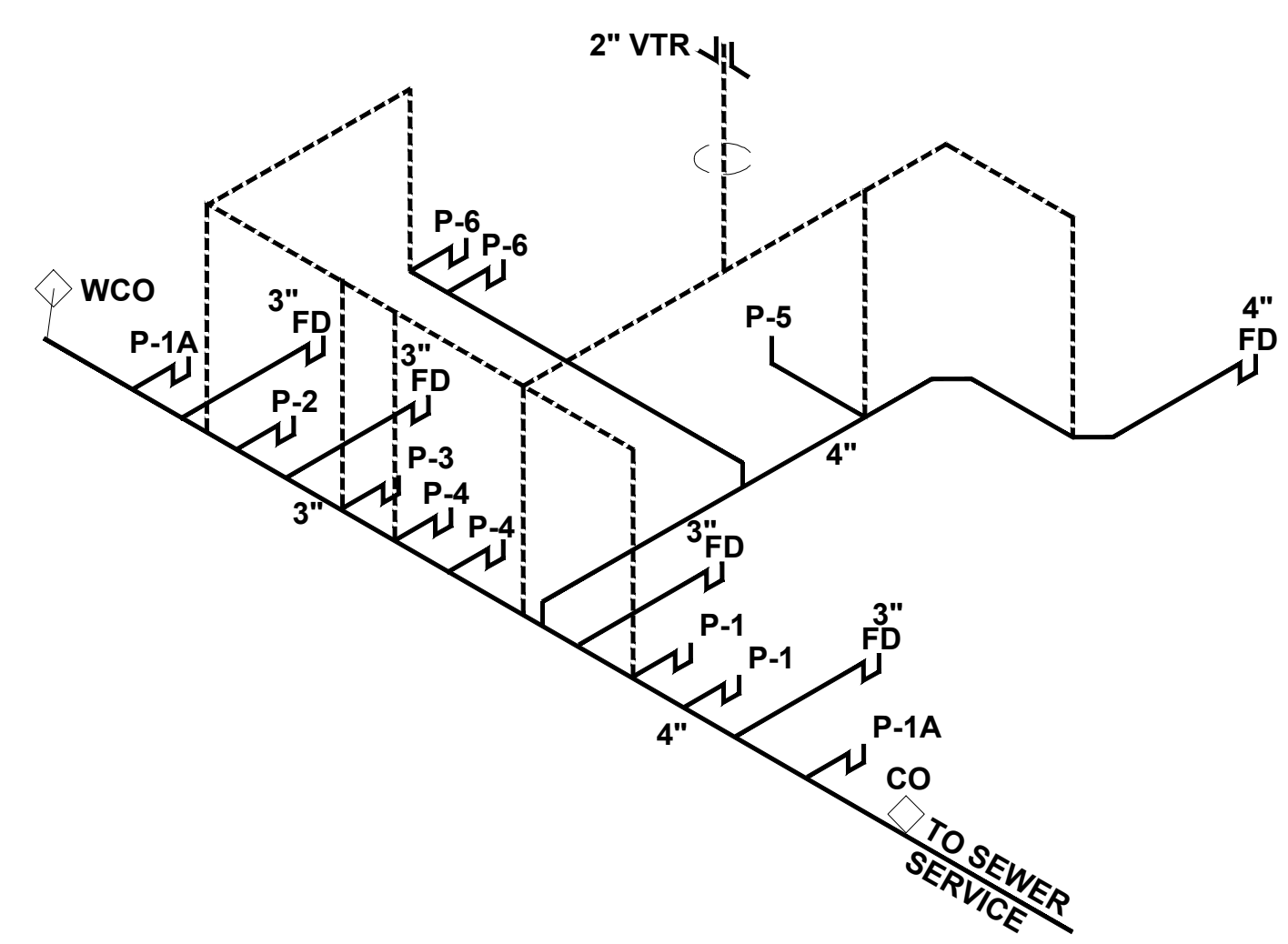


P-0961

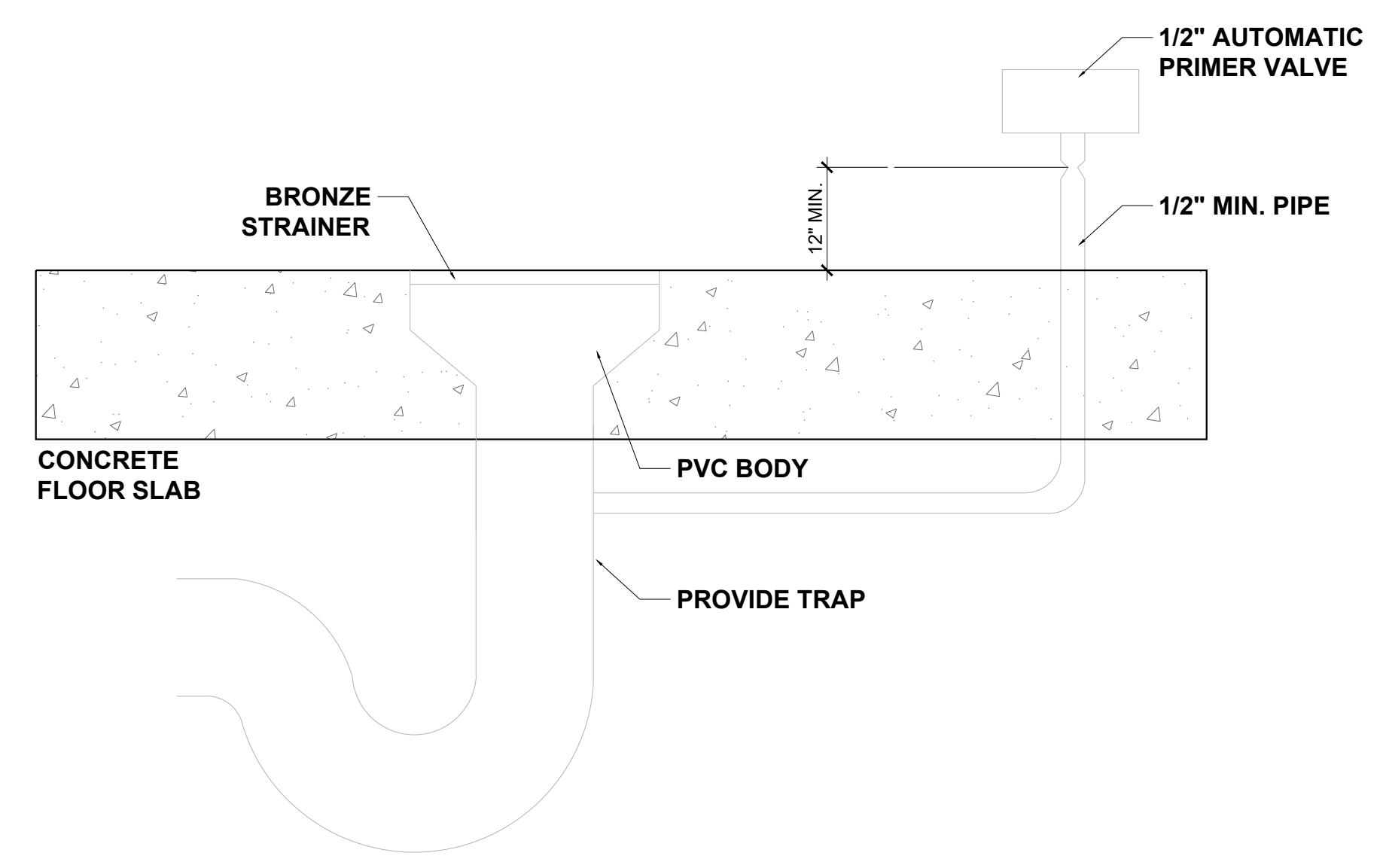
JDS Consulting
 ENGINEERING · DESIGN · ENERGY
 JDS Consulting PLLC, 9600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
 INT06@JDSCONSULTING.NET WWW.JDSCONSULTING.NET
 JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS IN DRAWINGS.



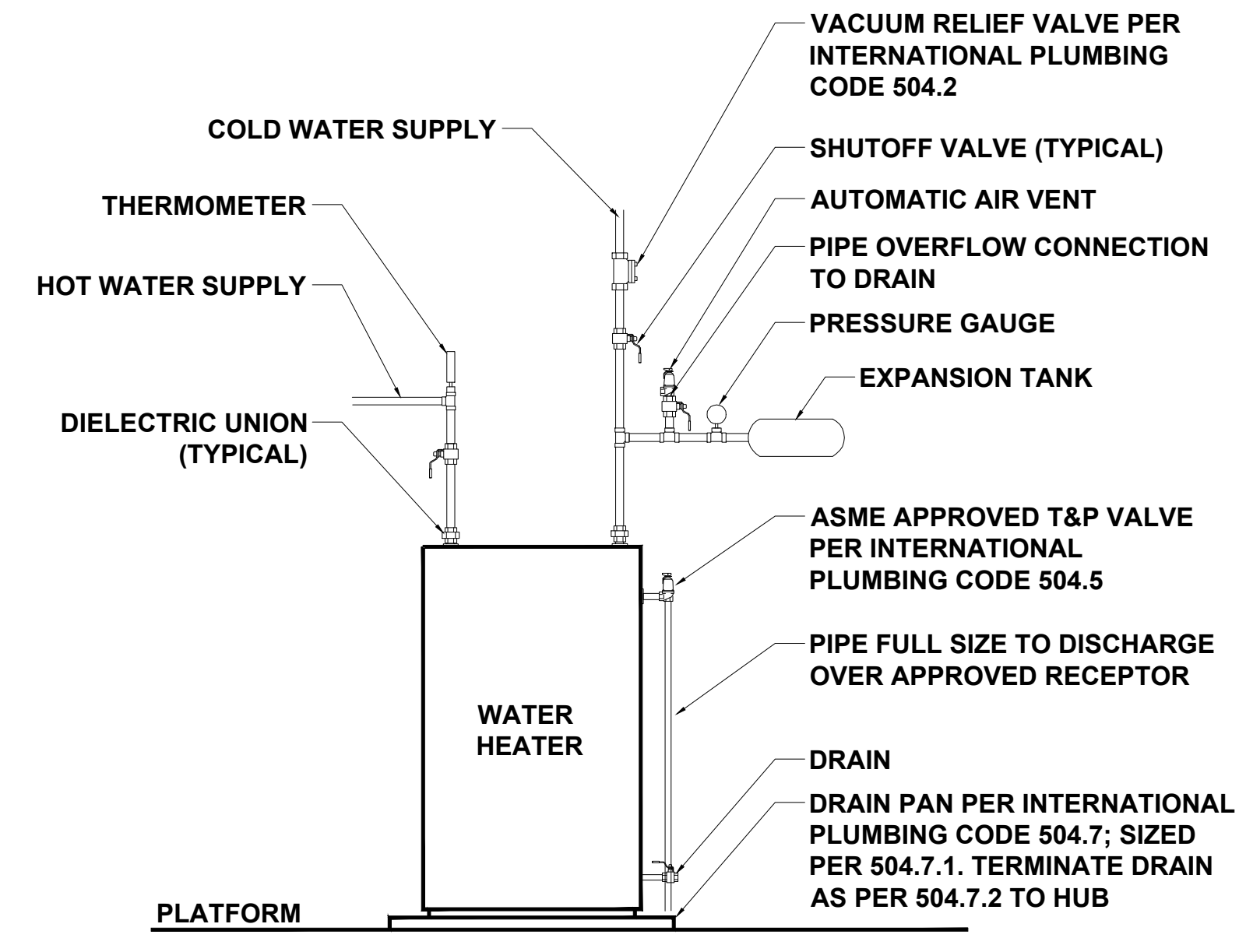
DOMESTIC WATER SUPPLY RISER



SS RISER



FLOOR DRAIN DETAIL



TYPICAL WATER TANK HEATER DETAIL

CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

PLUMBING NOTES AND DETAILS

P1.1

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

POOL PIPING NOTES

- WHERE PIPE IS RUN UNDER FOOTINGS - PROVIDE SCHEDULE 40 PVC SLEEVE A MIN. OF 1'-0" BELOW THE BOTTOM OF THE FOOTER. SUBGRADE ABOVE SLEEVE TO BE COMPACTED TO MIN. REQUIREMENTS FOR FOUNDATION SYSTEM.
- ALL POOL PIPE TO BE PRESSURE RATED SCHEDULE 40 PVC. PIPE CONNECTIONS TO SKIMMERS, VACUUM LINES AND FLOOR INLETS TO BE 2" PIPE.
- PROVIDE 1" LINE OVERFLOW PIPE TO RUN TO DAYLIGHT OUTSIDE OF POOL DECK ENCLOSURE.
- ALL PIPE RUNS ARE SCHEMATIC. RUN PIPE TO MINIMIZE TRENCHING/EXCAVATION.
- ALL PIPE SHALL BE MARKED DESIGNATING FLOW DIRECTION AND IDENTITY.

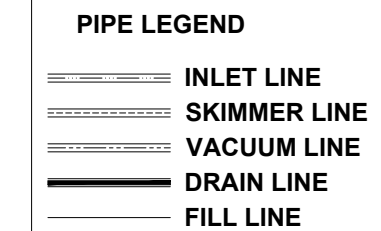
GENERAL NOTES - ELECTRICAL

- SEE ELECTRICAL PLANS BY OTHERS FOR ALL ELECTRICAL DESIGN, INCLUDING ELECTRICAL SPECIFICATIONS, CIRCUITING, AND CONNECTION OF ELECTRICAL DEVICES SCHEDULED ON THE POOL PLANS.
- THE SWIMMING POOL DESIGN INCLUDES, FOR INFORMATION ONLY, CUT SHEETS OF THE UNDERWATER LIGHT FIXTURES, POOL PUMPS AND OTHER POOL EQUIPMENT THAT REQUIRES AN ELECTRICAL CONNECTION, AND THE LOCATION OF THESE ITEMS OF EQUIPMENT.
- BOND ALL NON CURRENT CARRYING METALLIC PARTS RELATING TO POOL. SEE THE BONDING DETAIL ON THIS SHEET.
- AREA LIGHTING NOTE: AREA LIGHTING OF THE POOL DECK IS BY OTHERS.
 - AREA LIGHTING IS TO ILLUMINATE ALL PARTS OF THE POOL, THE WATER, THE DEPTH MARKERS, SIGNS, ENTRANCES, RESTROOMS, SAFETY EQUIPMENT AND THE REQUIRED DECK AREA AND WALKWAYS.
 - NIGHT SWIMMING IS NOT ALLOWED UNTIL AREA LIGHTING IS PROVIDED.
 - REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION OF THE MAIN DRAINS OF THE POOL.
 - REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION OF THE REQUIRED DECK AREA OF THE POOL SO THAT IT IS VISIBLE AT ALL TIMES THE POOL IS IN USE.
 - COORDINATE WITH LOCAL INSPECTOR FOR APPROVAL OF PROPOSED LIGHTING.

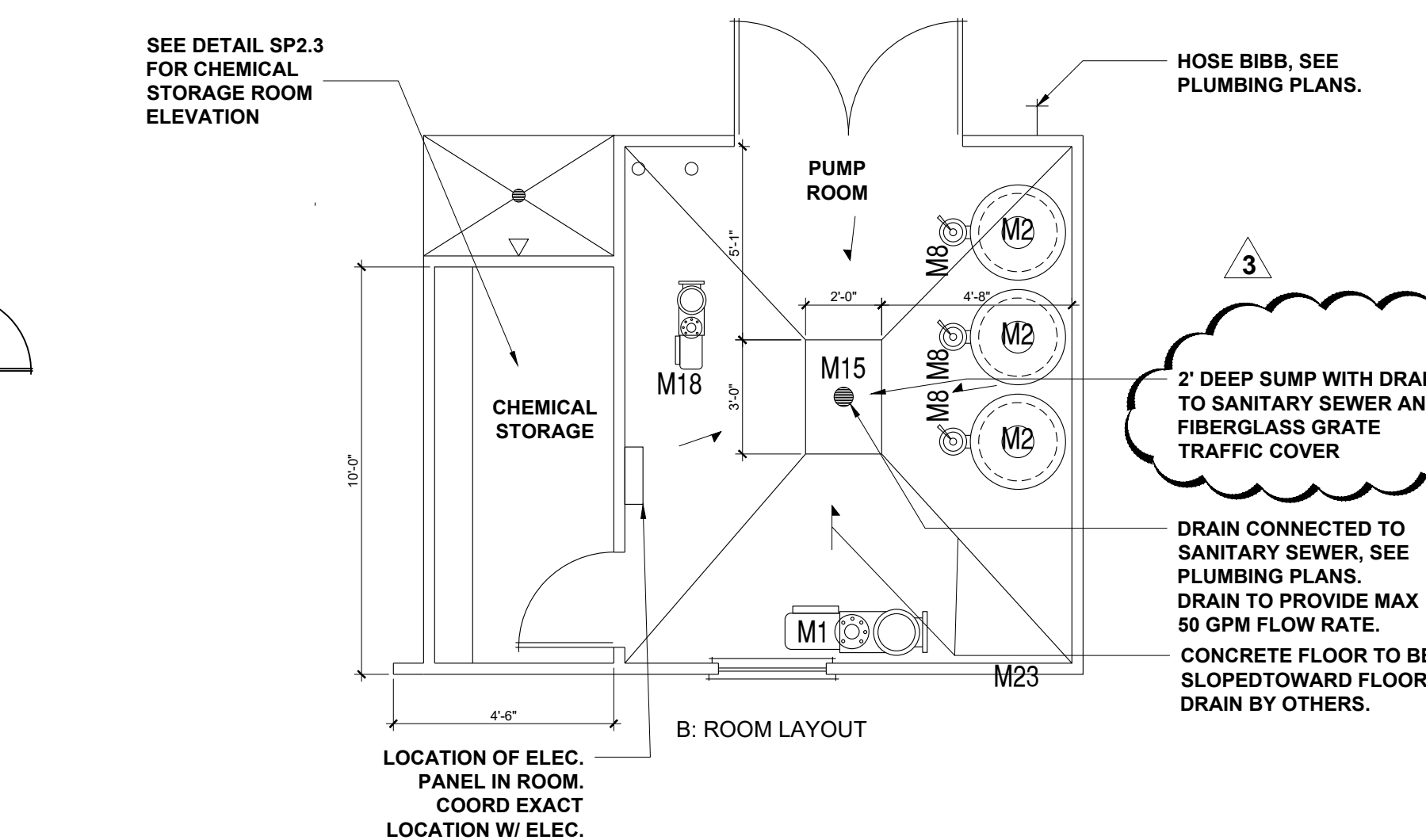
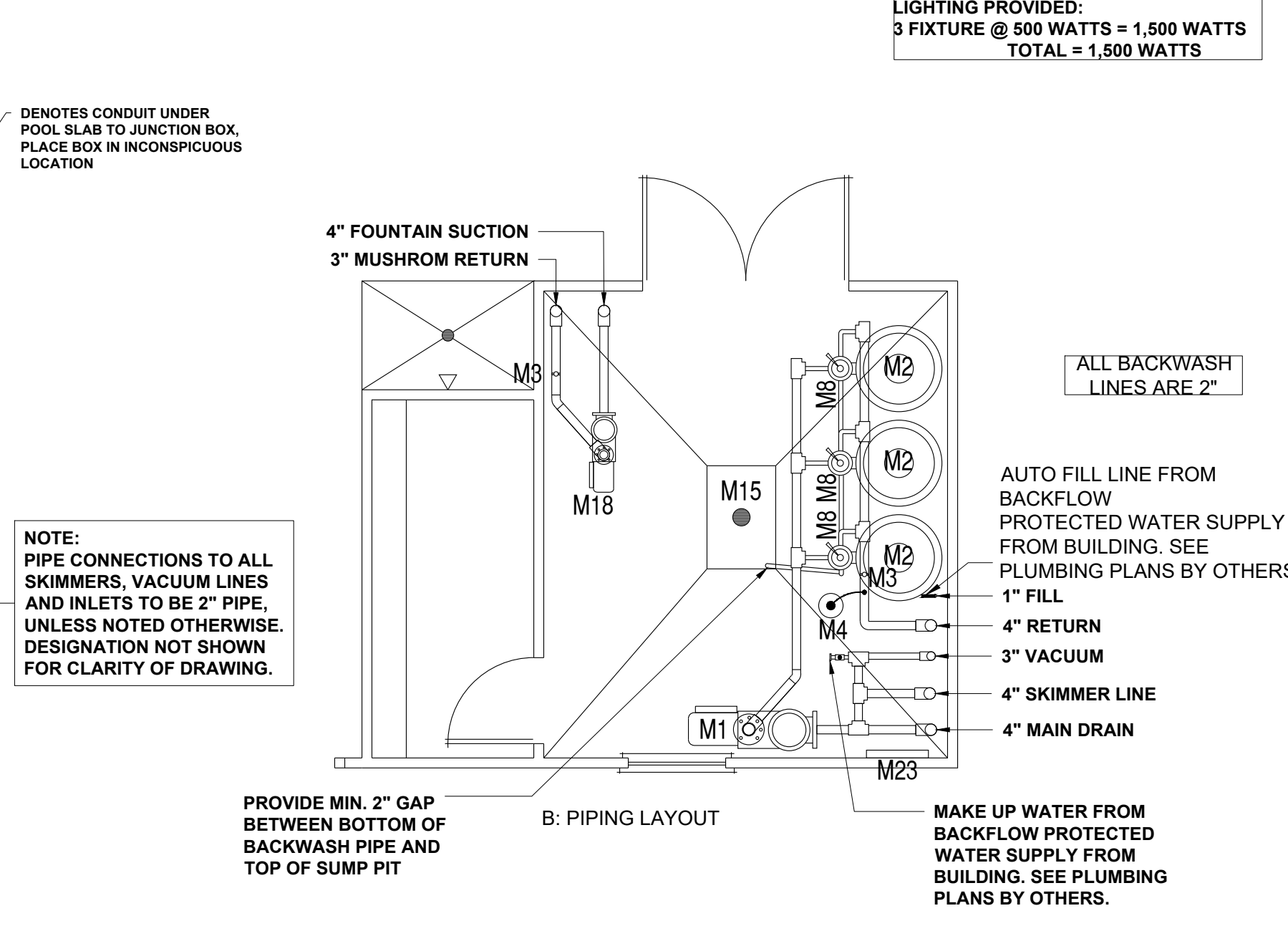
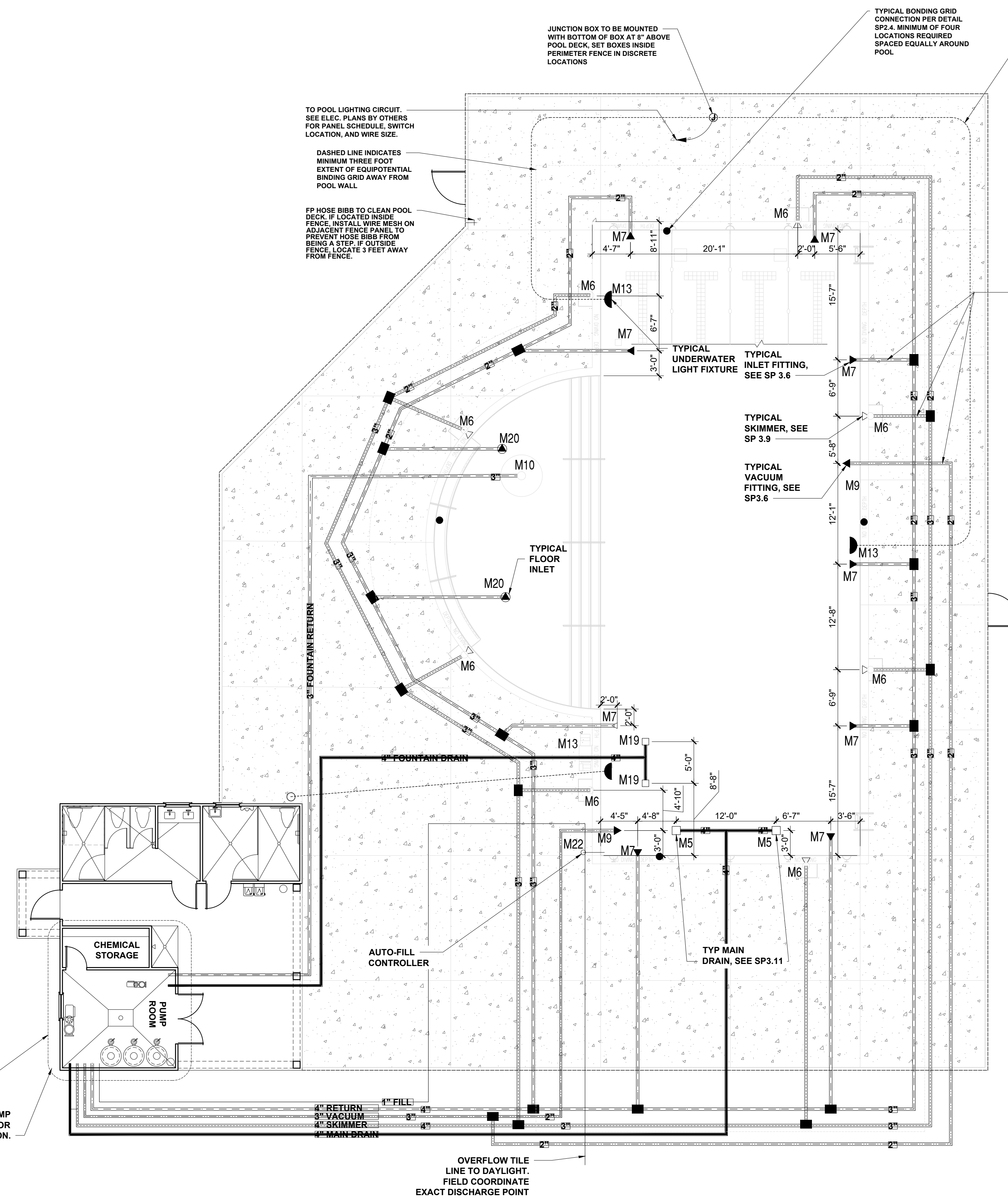
PUMP FLOW PIPE SIZE BASIS "DESIGN FLOW RATE"

OUTDOOR POOL: EQ500 PUMP FLOW AT 65 FEET OF WATER IS 220 GPM. WITH SPECIFIED 4" MAIN DRAIN, SKIMMER LINES, AND RETURN PIPING VELOCITIES ARE AT 5.9 FPS.

FEATURE PUMP: WFE-12 PUMP FLOW AT 65 FEET OF WATER IS 130 GPM. WITH SPECIFIED 4" MAIN DRAIN VELOCITY IS AT 3.8 FPS AND 3" RETURN PIPING VELOCITY IS AT 6.4 FPS



REQUIRED UNDERWATER LIGHTING FOR:
 MAIN POOL AREA:
 1698 SQ. FT. x 0.5 WATTS = 849 WATTS
LIGHTING PROVIDED:
 3 FIXTURE @ 500 WATTS = 1,500 WATTS
 TOTAL = 1,500 WATTS



ENLARGED PUMP ROOM LAYOUT
 SCALE: N.T.S.

PIPING AND LIGHTING LAYOUT
 SCALE: 1/4" = 1'-0"



JDS Consulting
 ENGINEERING • DESIGN • ENERGY
 JDS Consulting PLLC, 8600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
 INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

PROJECT NO.: **23900139**
 DATE: **05/31/2023** DRAWN BY: **FAB**

POOL PIPING LAYOUT
SP1.0

SCALE: 1/4" = 1'-0" FOR 24x36" PAPER, NOT TO SCALE FOR 11x17" PAPER, OR AS NOTED

CHEMICAL STORAGE NOTES

CHEMICAL STORAGE REQUIREMENTS FOR THE POOL AS FOLLOWS:
 5 SQ FT FOR FIRST 10,000 GALLONS OF POOL PLUS 1 SQ FT FOR EACH ADDITIONAL 3,000 GALLONS OF POOL UP TO 100 SQ FT OF STORAGE
 5 SQ FT (FOR FIRST 10,000)
 +21.09 SQ FT (1 SQ FT PER 63,261/3000)
 =26.09 SQ FT REQUIRED
 CLUBHOUSE PROVIDES 45.0 SQ FT FOR CHEMICAL STORAGE.

POOL DECK OCCUPANCY REQUIREMENTS

TOTAL POOL DECK AREA IS 4,734 SF. 8' MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,716 SQ. GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,734 - 2,716 = 2,018 SF.
 DECK IS 2,618 SF AT 15 SF PER PERSON. DECK OCCUPANT LOAD IS 175.
 COVERED AREA IS 421 SF. AT 15 SF PER PERSON. COVERED AREA OCCUPANT LOAD IS 28.
 POOL AREA IS 2,969 SF. AT 50 SF PER PERSON. POOL OCCUPANT LOAD IS 60.
 TOTAL OCCUPANT LOAD OF 267.0 EQUAL 53' OF EXIT REQUIRED. 3 EXITS REQ'D. MIN. OF 132' SHOWN ON PLAN.
 REQUIRED EXIT SEPARATION EQUALS 1/3 THE DIAGONAL, OR 66'.

GENERAL VENTILATION NOTES

PUMP ROOM - VERIFY VENTILATION OF THIS ROOM IS EITHER NATURAL CROSS DRAFT OR CONTINUOUS FORCED VENTILATION WHICH DIRECTS VENTED AIR AWAY FROM THE POOL AREA. IF FORCED VENTILATION EQUIPMENT IS USED, IT SHALL RUN CONTINUOUS AND NOT BE CONNECTED TO THE PUMP ROOM LIGHT SWITCH.
CHEMICAL ROOM - VERIFY VENTILATION OF THIS ROOM IS EITHER NATURAL CROSS DRAFT OR CONTINUOUS FORCED VENTILATION EQUIPMENT IS USED, IT SHALL RUN CONTINUOUS AND NOT BE CONNECTED TO THE CHEMICAL ROOM LIGHT SWITCH.

BATH HOUSE DATA

TOTAL BATHER LOAD = 198 (50%-50% SPLIT) - OUTDOOR POOL = 2688 / 15 = 198
BATHHOUSE REQUIREMENTS:
 99 MEN, MIN FIXTURES REQUIRED ARE:
 -ONE LAVATORY
 -ONE URINAL
 -ONE WATER CLOSET
 99 WOMEN, MIN FIXTURES ARE:
 -TWO LAVATORIES
 -TWO WATER CLOSETS.
 2 SHOWERS ARE REQUIRED.

MAIN POOL DATA	
POOL DIMENSIONS:	31'-2"x75'-1" w/ 20' RADIUS SEMI-CIRCLE
POOL DEPTHS:	9'-5"-0"
POOL VOLUME:	73,261 GALLONS
SURFACE AREA:	2,968 SF
PERIMETER:	235 LF
COPING:	CAST-IN-PLACE W/ BULLNOSE
MIN. FLOW RATE:	204 GPM
DESIGN FLOW RATE:	220 GPM
CONSTRUCTION:	GUNIT
FINISH:	NON-SLIP WHITE PLASTER
BATHER LOAD:	198 BATHERS
MAIN DRAINS:	(2), 4" MAIN DRAIN LINE
INLETS:	11 REQ'D 4" MAIN RETURN LINE
SKIMMERS:	8, 4" MAIN SKIMMER LINE
FILTER, TYPE:	HIGH RATE SAND
FILTER SIZE, PROV:	(3) @4.91 SF, 14.73 SF TOTAL
FILTER SIZE, REQ'D:	13.57 SF TOTAL
MEDIA CIRC. RATE:	15 GPM/SF
BACKWASH RATE:	15 GPM/SF
TURNOVER RATE:	6 HOURS.
BACKWASH TO:	SANITARY SEWER
FRESHWATER SOURCE:	IN-LINE, MANUAL FILL

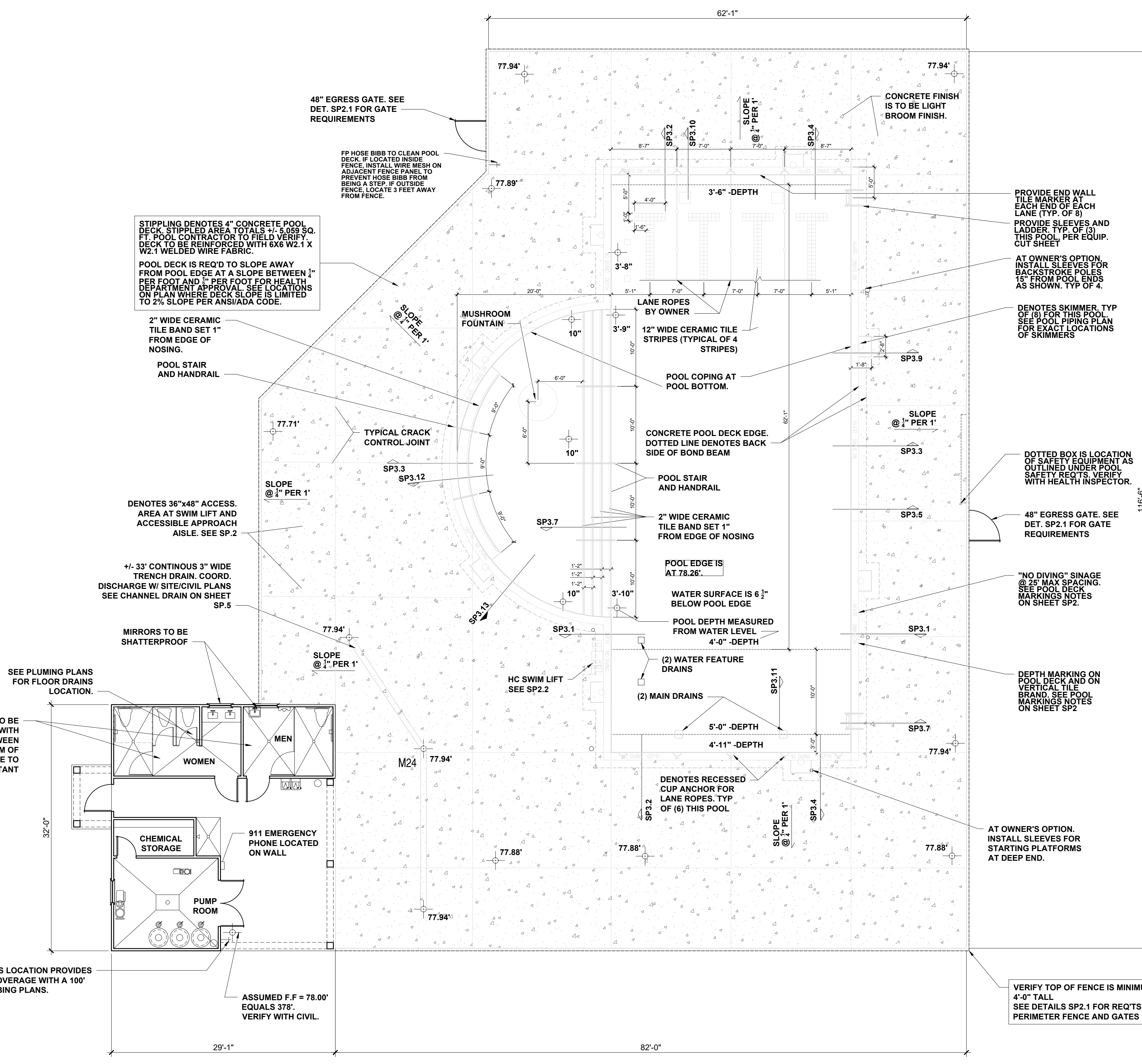
PROVIDE SIGN STATING "WARNING NO LIFE GUARD ON DUTY" SEE POOL SIGN REQ'TS, SIGN "A"
 PROVIDE SIGN STATING THAT NO DIVING IS ALLOWED IN POOL AREA. SEE POOL SIGN REQ'TS, SIGN "B"
 PROVIDE SIGN FOR SHOWERING REQ'TS. SEE POOL SIGN REQ'TS, SIGN "C"

CONCRETE DECK NOTES

POOL DECK AREA IS 3,036 SF AND INCLUDES ONLY THE STIPPLED AREA ON THE PLAN.
 DECK ELEVATIONS ARE RELATIVE TO THE TOP OF DECK AT THE POOL EDGE. COORDINATION WITH THE SITE/CIVIL DRAWING MAY REQUIRE ADJUSTMENT OF THE ELEVATIONS.
 CONCRETE DECK TO HAVE LIGHT BROOM FINISH.
 KEEP CONCRETE SLABS DAMP FOR SEVEN (7) DAYS AFTER PLACEMENT.
 CONTROL JOINTS TO BE LET INTO CONCRETE AT A DEPTH OF 1/3 THE THICKNESS OF THE CONCRETE SLAB.

MAIN POOL EQUIPMENT SCHEDULE		
M1	5 HP, SELF-PRIMING PUMP W/ MATCHING STRAINER, 220 GPM @65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER, NON VARIABLE SPEED.	PENTAIR - EQ500
M2	30" DIA., HIGH RATE SAND FILTER WITH 4.91 S.F. MEDIA	PENTAIR - TRITON II TR100
M3	FLOW RATE INDICATOR	BLUE-WHITE F/D/U-300
M4	EROSION CHLORINATOR	PENTAIR HC 3315
M5	MAIN DRAIN - 14"x14" SUMP AND COVER/GRATE W/ HYDROSTATIC RV	AQUASTAR 914xxx
M6	IN-GROUND SKIMMER	PENTAIR U3
M7	IN-WALL INLET W/ DIRECTIONAL FITTINGS	PENTAIR - 542002
M8	MULTIPORT VALVE	PENTAIR 261055
M9	IN-WALL VACUUM FITTING, W/ PLUG	HAYWARD W400AWHP
M10	5' MUSHROOM FOUNTAIN	NATURAL STRUCTURES 1800-18
M11	POOL HANDRAIL, 4' LONG	SRSMITH DMS101-MG
M12	POOL LADDER, 3 RUNG	SRSMITH LF24-38-MG
M13	500 WATT WHITE LIGHT WITH NICHE	PENTAIR-78456300
M14	IN-WALL CUP ANCHOR	PENTAIR-542044
M15	FLOOR DRAIN, CAST BODY, PVC COVER BY OTHERS - MAX. 50 GPM FLOW	SELECTED BY OWNER
M16	BACKSTROKE FLAG ANCHOR	SR SMITH MULTI-LIFT
M17	HANDICAPPED LIFT	PENTAIR-WFE-12
M18	3HP FOUNTAIN PUMP W/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER, NON VARIABLE SPEED.	ASA FPK 50-812-4
M19	12"x12" FOUNTAIN SUMP AND COVER	AQUASTAR WAV12
M20	POOL FLOOR INLET	PENTAIR 08417
M21	POOL HANDRAIL, 4" LONG, TWO BEND	SRSMITH 2HR-4-MG
M22	AUTOMATIC WATER LEVEL CONTROLLER	PENTAIR T40-FW
M23	POOL CONTROL PANEL	PENTAIR EASYTOUCH 8
M24	DECK DRAIN	AQUASTAR DD3 3" DECK DRAIN
M25	HYDROSTATIC VALVE	AQUA HV 2"

POOL CONTRACTOR SHALL VERIFY THAT POOL EQUIPMENT SCHEDULE AND CUT SHEETS MATCH BEFORE ORDERING ANY ITEMS OF EQUIPMENT



JDS Consulting
 ENGINEERING • DESIGN • ENERGY
 JDS Consulting PLLC, 8600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
 INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

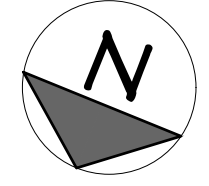
JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

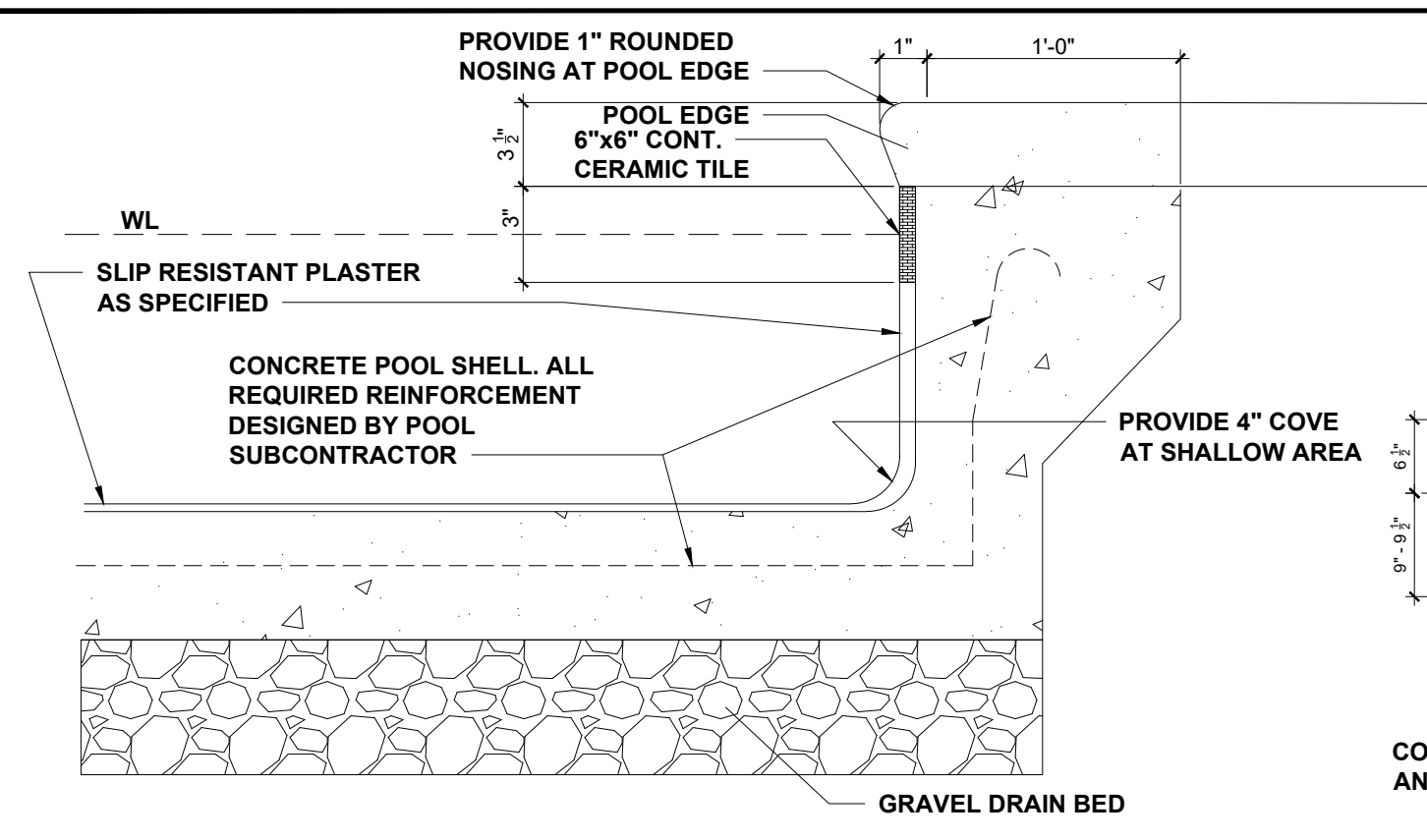
PROJECT NO.: **23900139**
 DATE: **05/31/2023** DRAWN BY: **FAB**

POOL LAYOUT

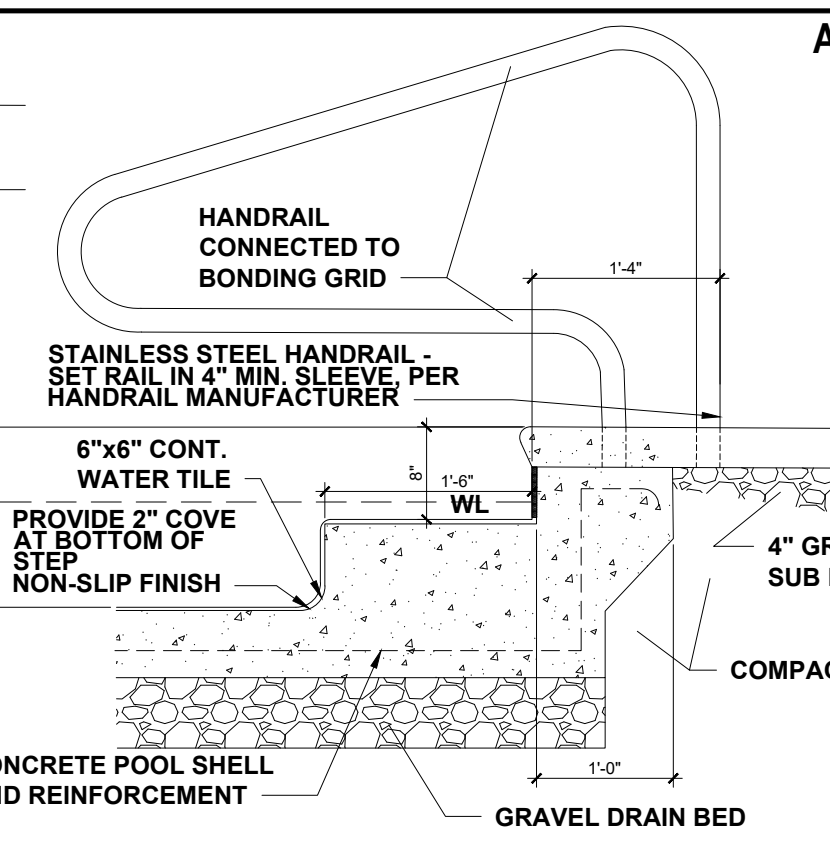
SP1.1 SWIMMING POOL LAYOUT
 SCALE: 1/4" = 1'-0"



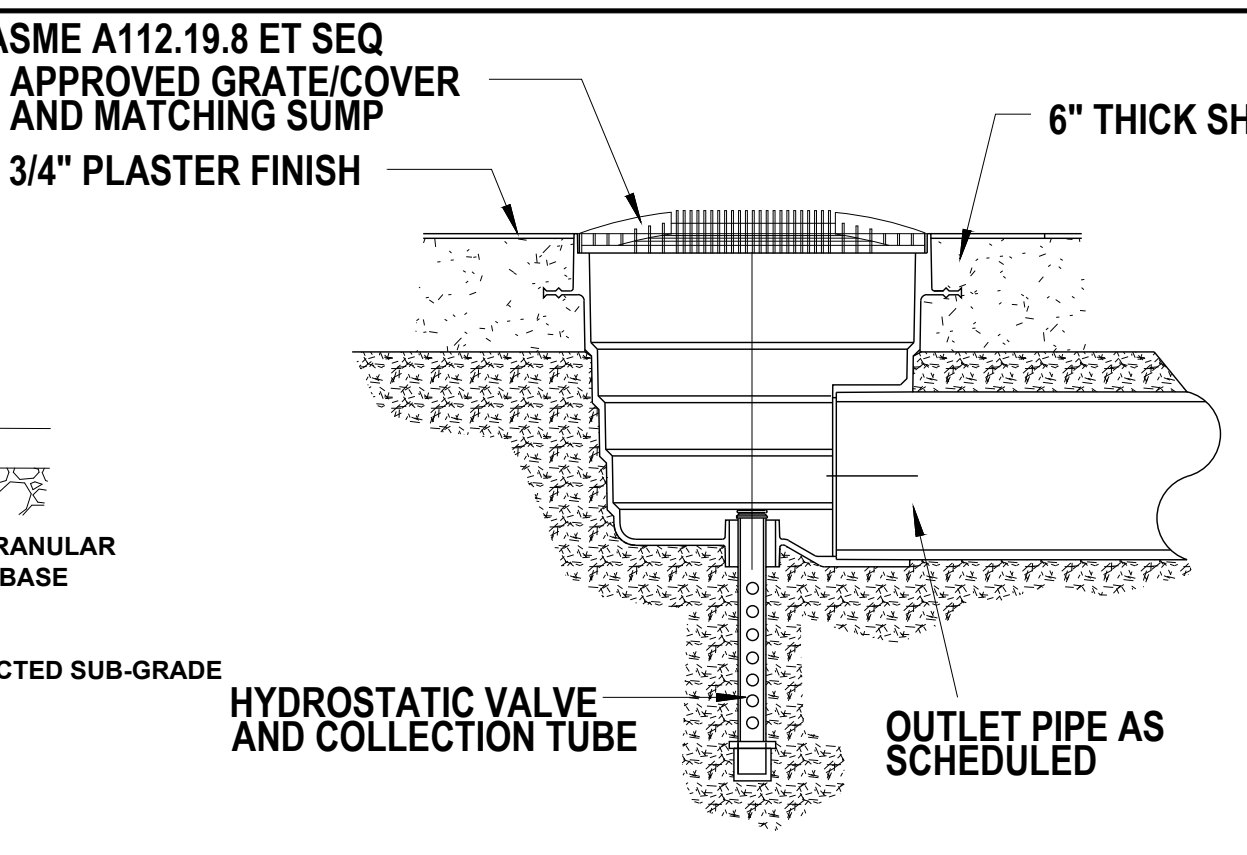
SP1.1



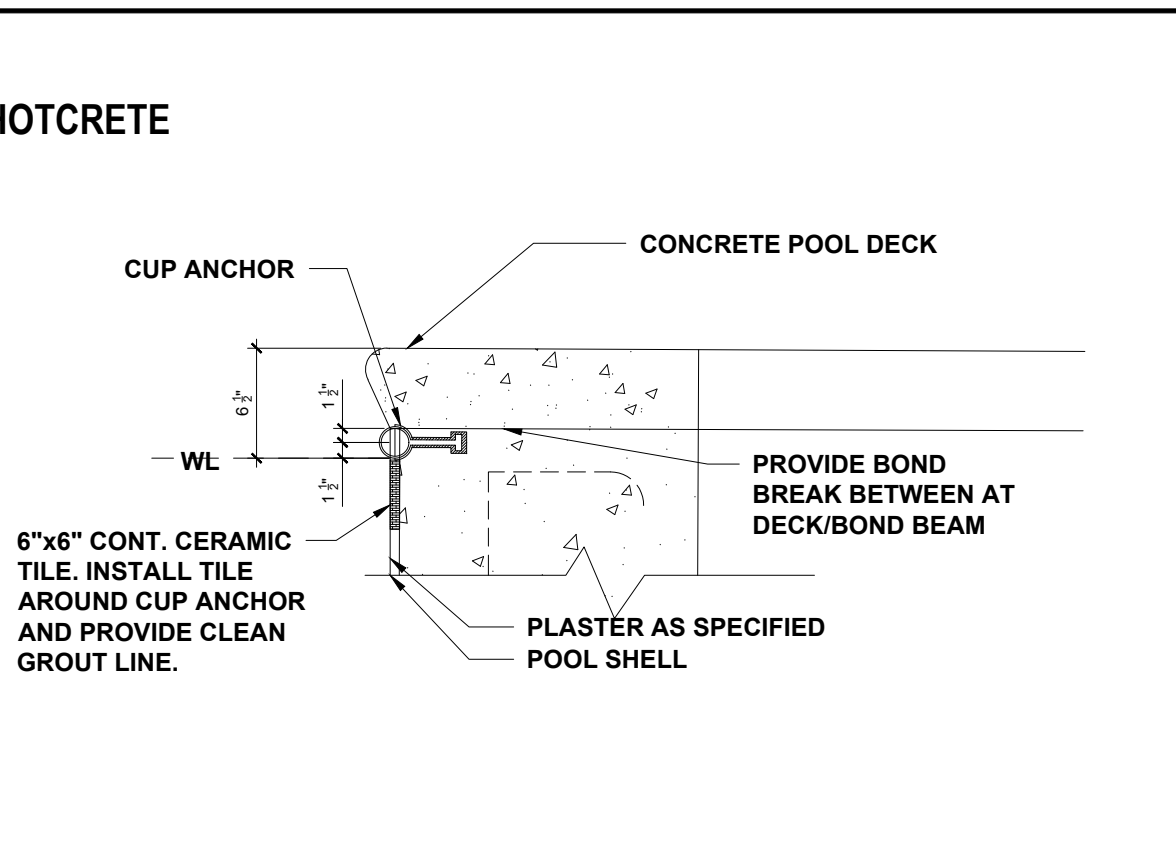
SP3 .13 **WALL SECTION SHALLOW WATER** SCALE: NTS



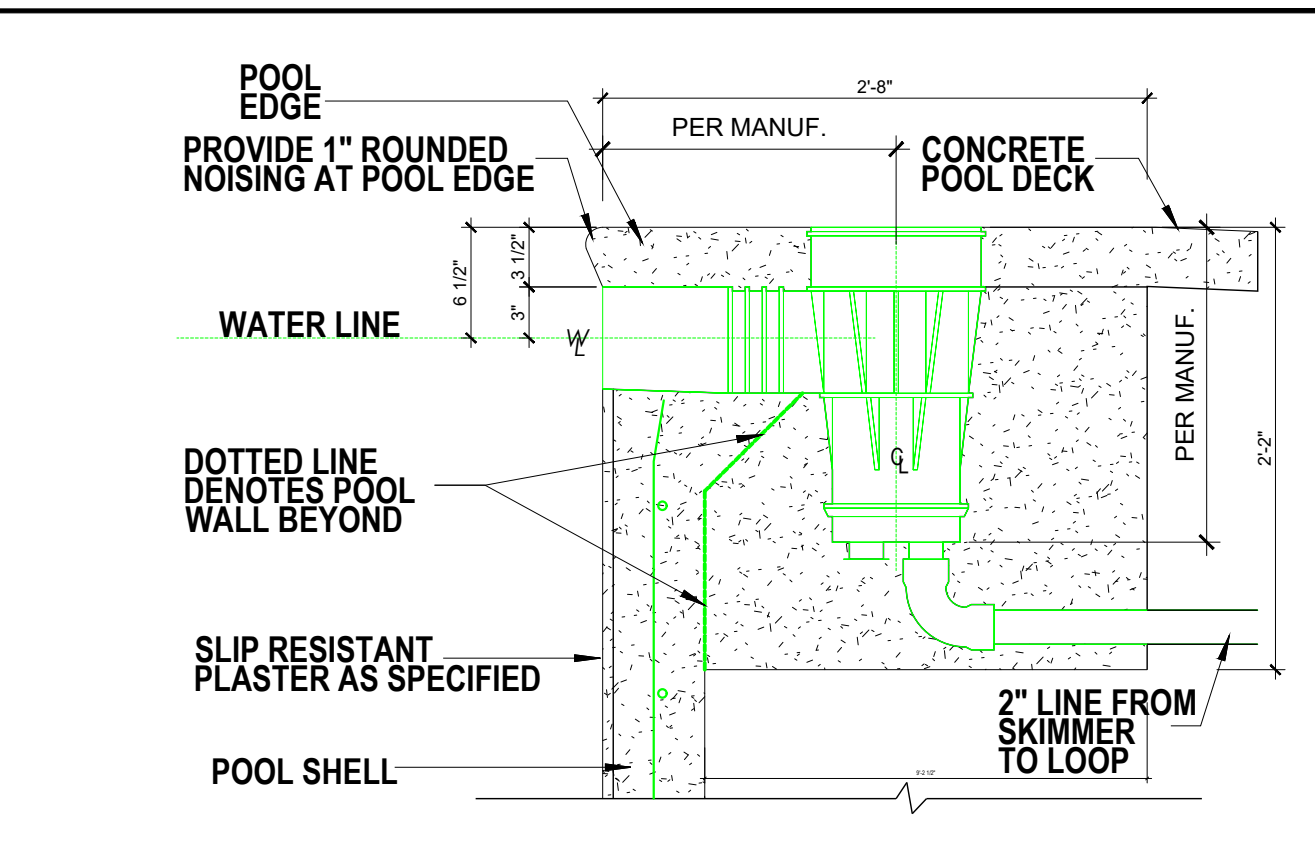
SP3 .12 **SHALLOW POOL WALL SECTION** SCALE: NTS



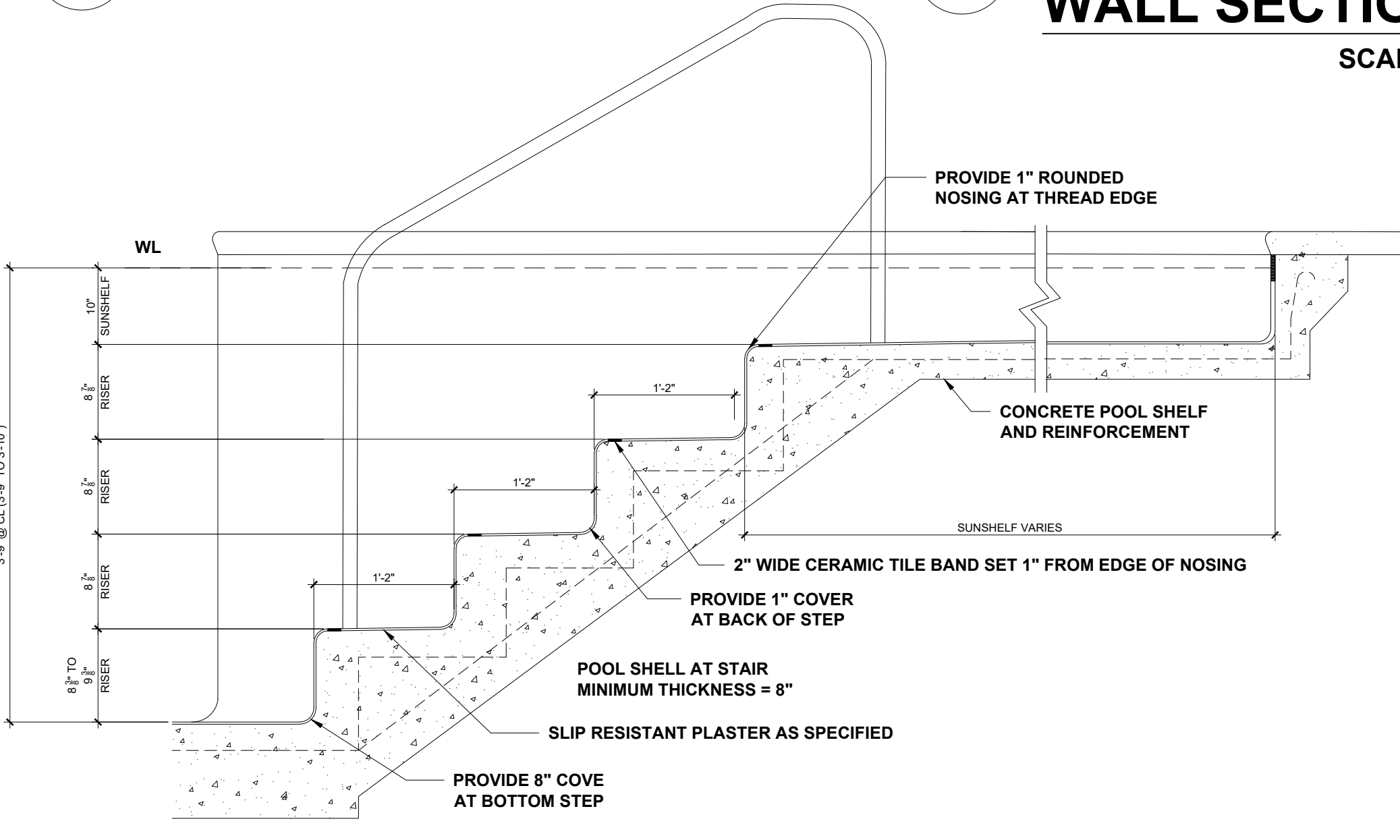
SP3 .11 **MAIN DRAIN DETAIL** SCALE: NTS



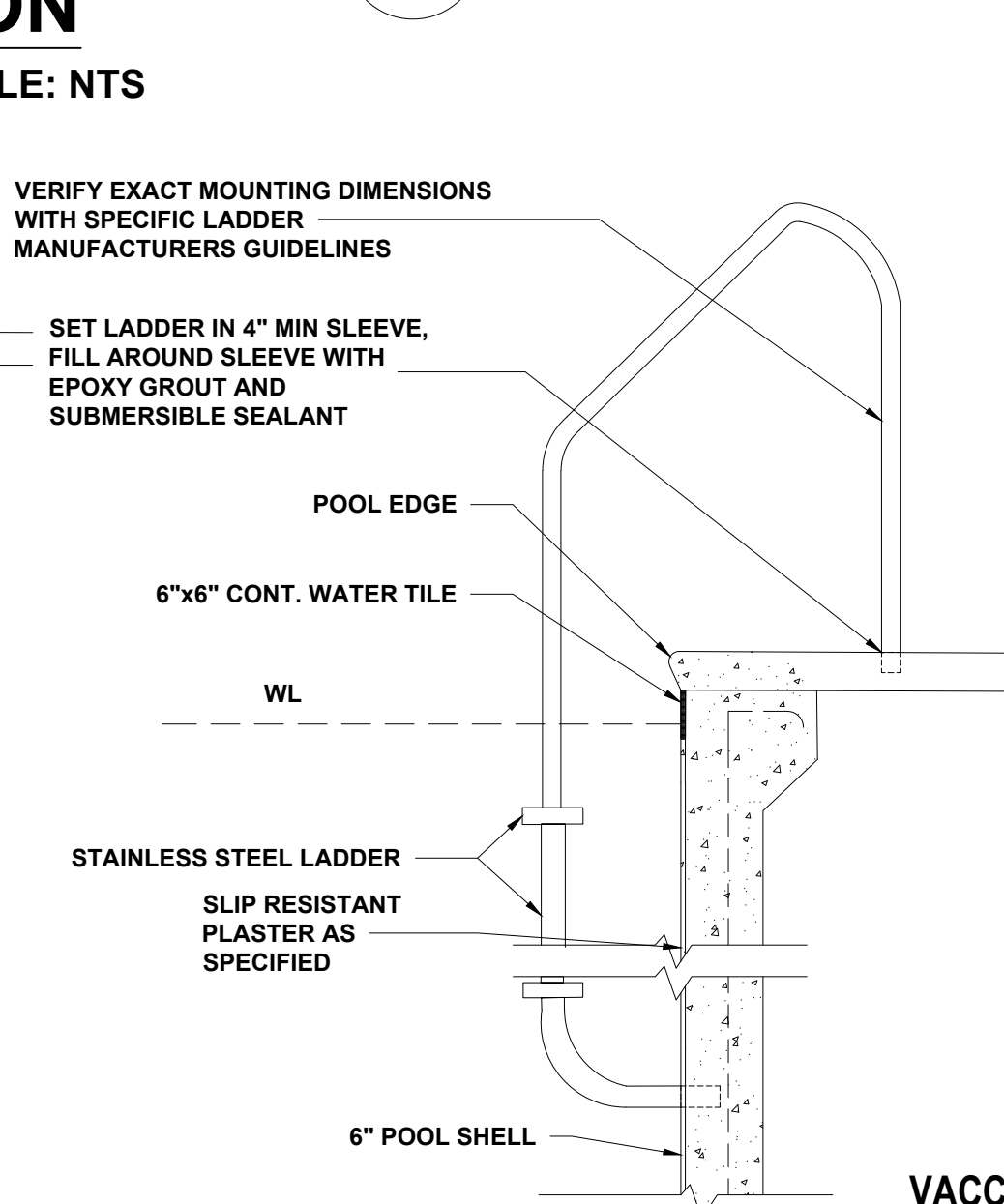
SP3 .10 **CUP ANCHOR DETAIL** SCALE: NTS



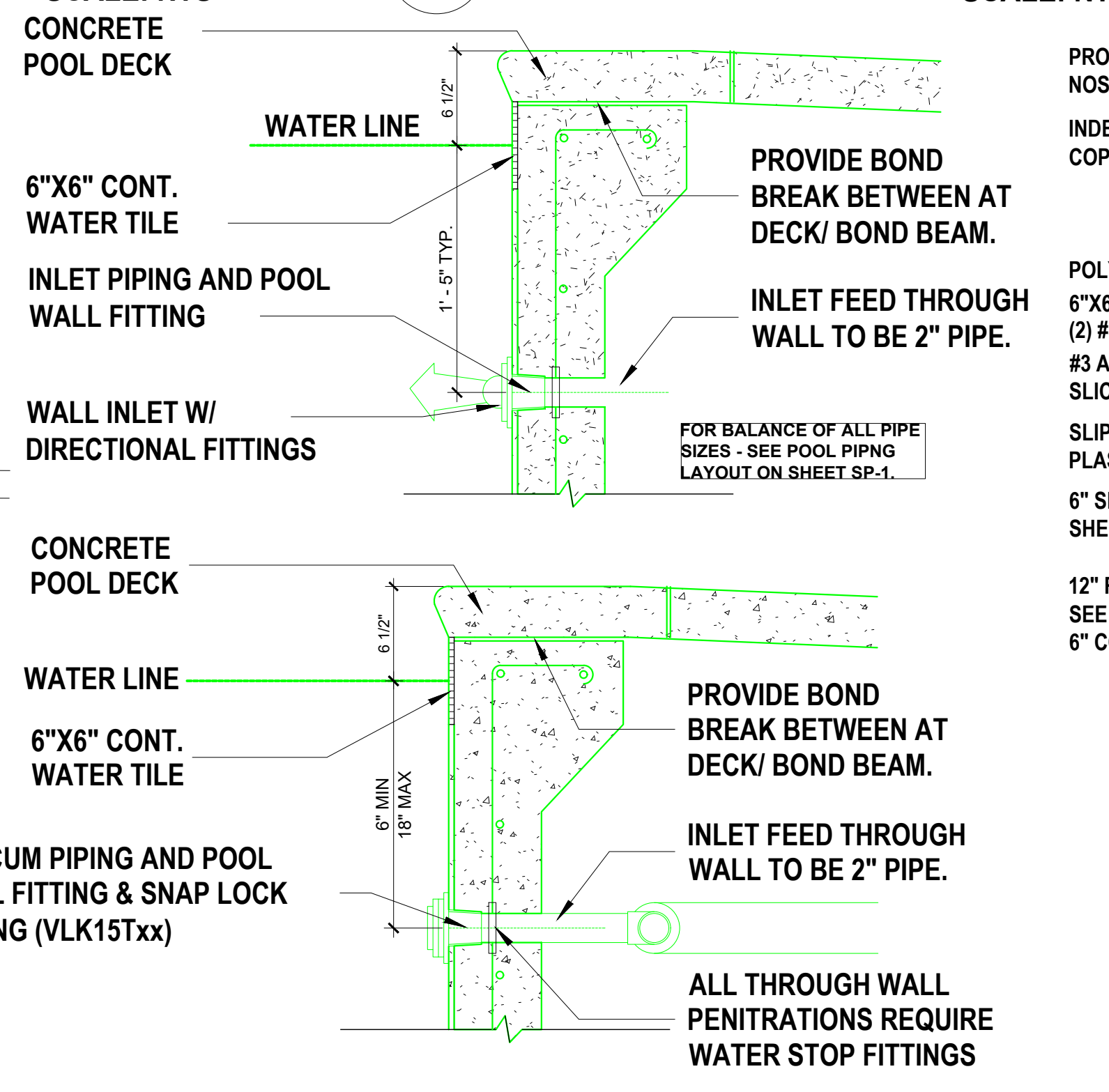
SP3 .9 **DETAIL - POOL SKIMMER** SCALE: NTS



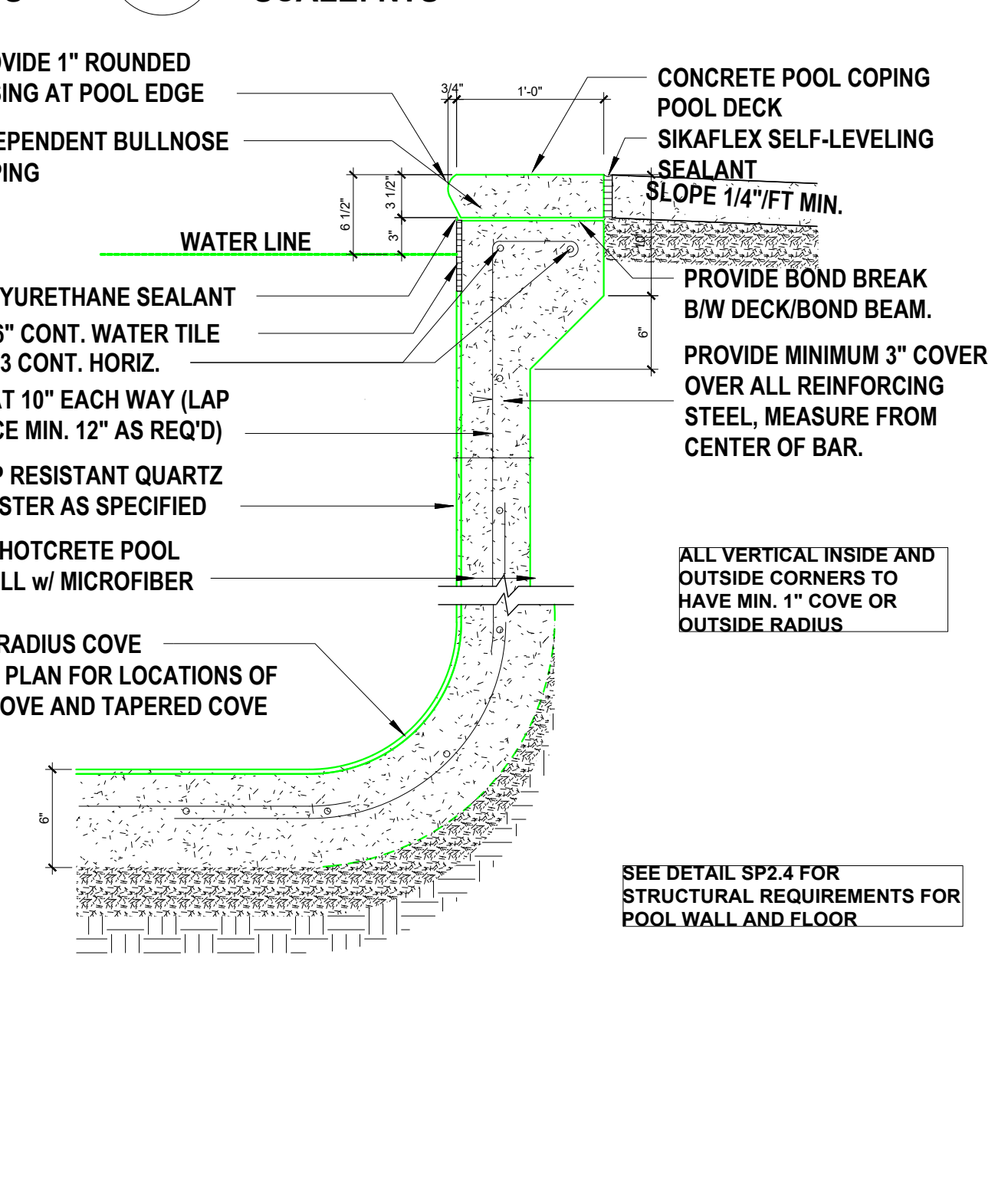
SP3 .8 **POOL STAIR DETAIL** SCALE: NTS



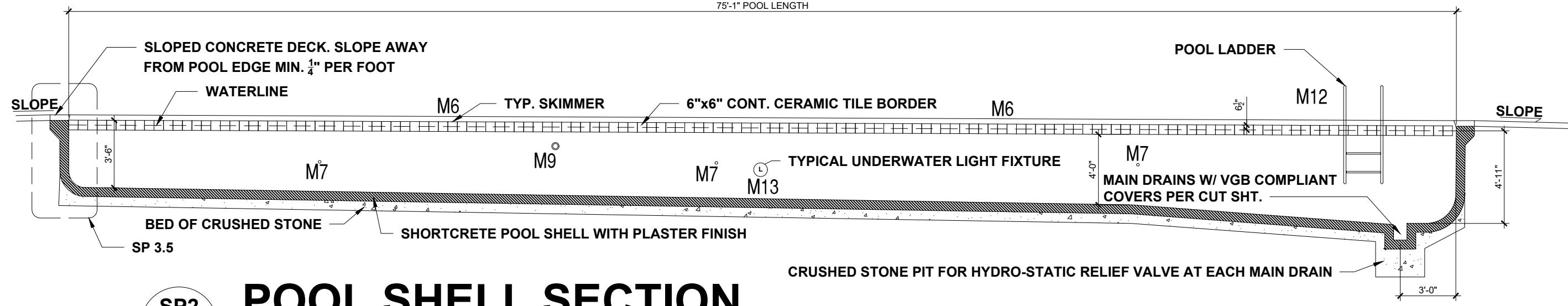
SP3 .7 **LADDER DETAIL** SCALE: NTS



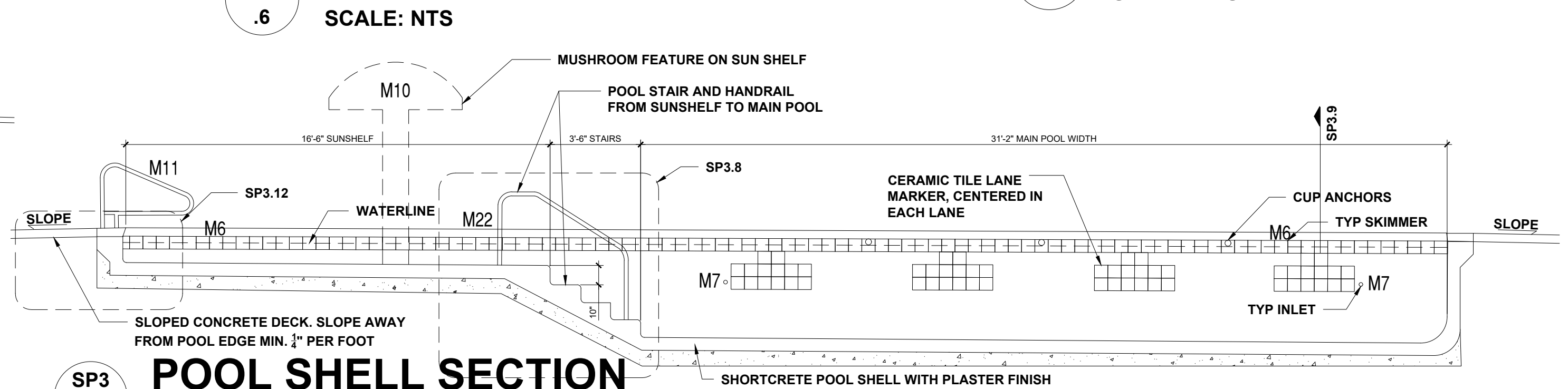
SP3 .6 **PIPING DETAIL** SCALE: NTS



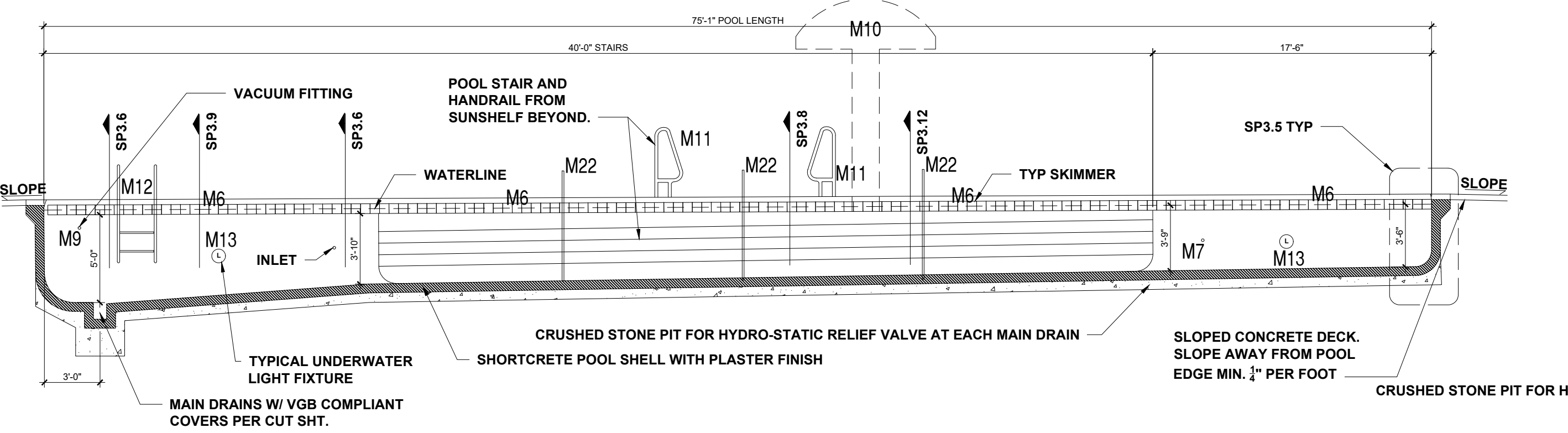
SP3 .5 **TYP. POOL WALL SECTION** SCALE: NTS



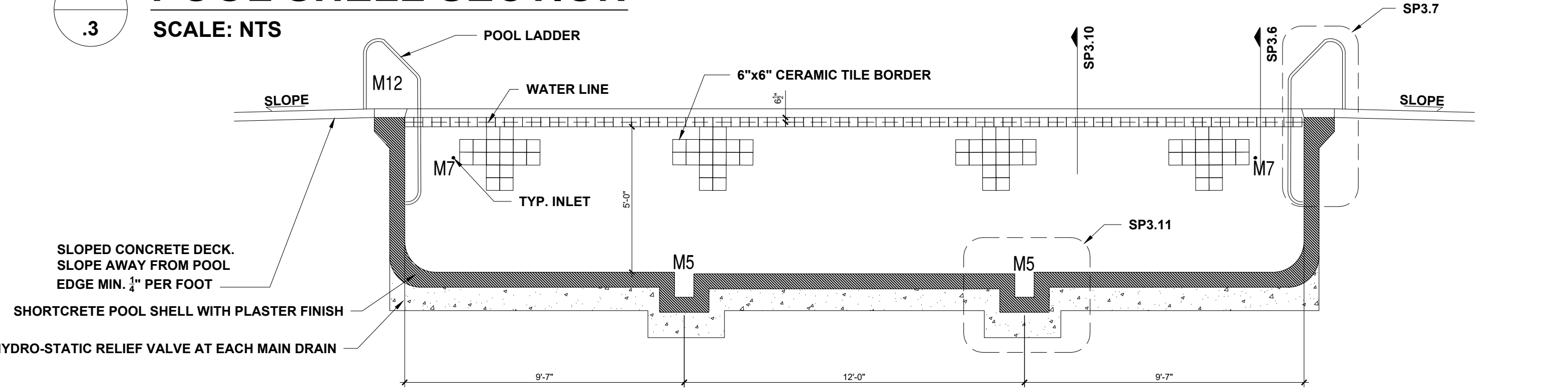
SP2 .4 **POOL SHELL SECTION** SCALE: NTS



SP3 .3 **POOL SHELL SECTION** SCALE: NTS



SP3 .2 **POOL SHELL SECTION** SCALE: NTS



SP3 .1 **POOL SHELL SECTION** SCALE: NTS



JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting LLC, 9600 P. JERSEY CT. RALEIGH, NC 27617 919.480.1075
INT:06@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

JDS Consulting LLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **MATTAMY HOMES**
PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
LOCATION: **196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526**

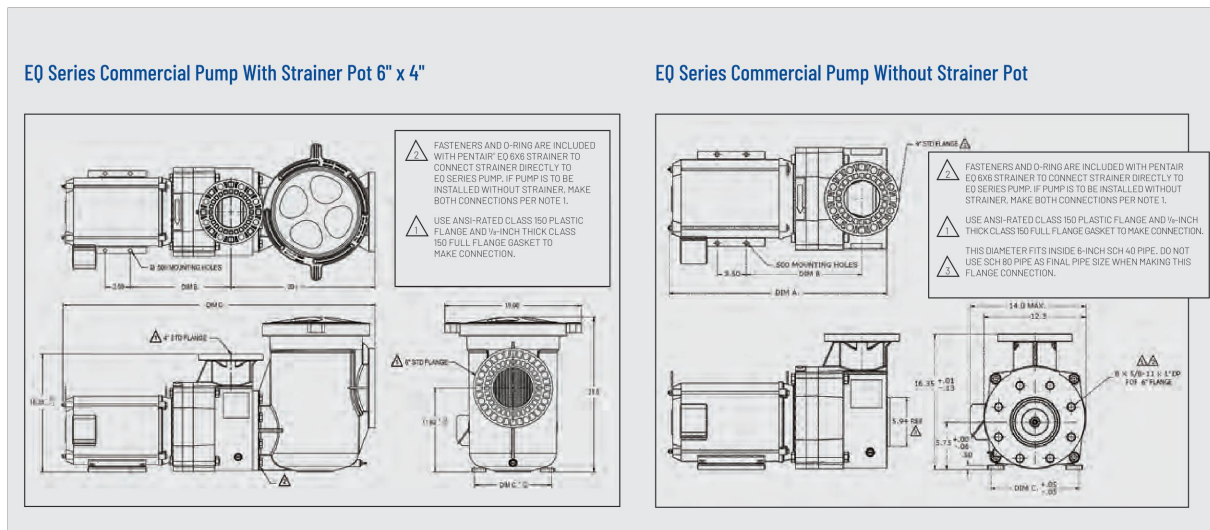
PROJECT NO.: **23900139**

DATE: **05/31/2023** DRAWN BY: **FAB**

SECTIONS & DETAILS

SP.3

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



M1

EO Series Commercial Pump With Strainer Pot (6 Inch x 4 Inch)

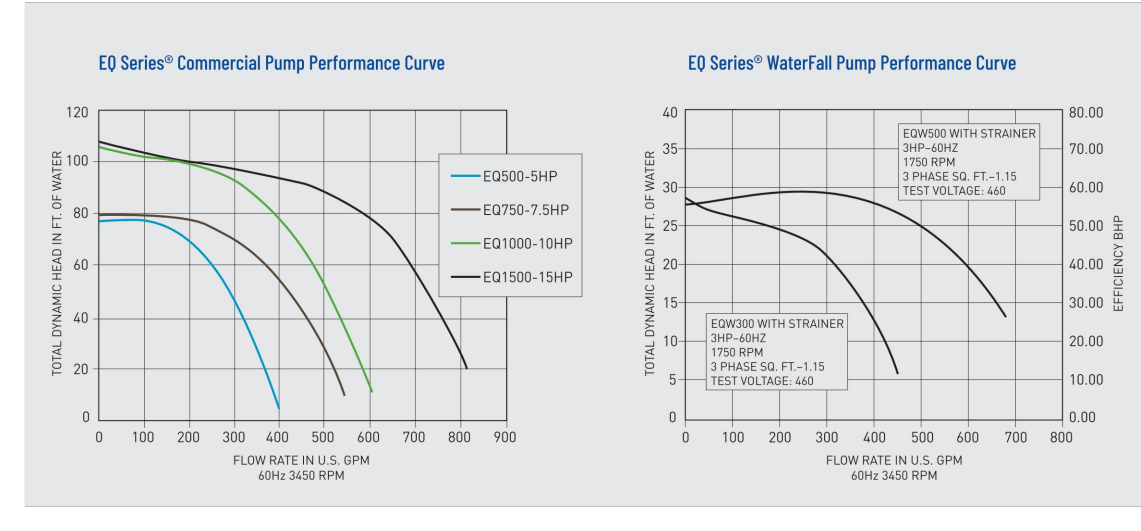
Part #	Part #	Description	Voltage	Amps	Phase	HP	Wt	Dim. A-D	Dim. A-T/FE	Dim. B	Dim. C	Dim. D-DP	Dim. D-T/FE
340026	EDW 300 WaterFall	208-230	38/19	1	3	126	26.62	N/A	10.03	7.5	43.590	N/A	N/A
340027	EDW 300 WaterFall	208-230/460	8.4-7.9/3.9	3	3	106	23.72	N/A	10.16	7.5	40.034	N/A	N/A
340028	EDW 500 WaterFall	230	23.4	1	5	106	26.62	N/A	12.18	8.7	43.590	N/A	N/A
340029	EDW 500 WaterFall	208-230/460	13.5-12.7/6.4	3	5	106	24.59	13.31	9.7	40.034	14.65	N/A	N/A
340030	E0500	230	18.6	1	5	128	26.62	N/A	10.03	7.5	43.590	N/A	N/A
340031	340004 E0K500	208-230/460	13.5-12.7/6.2	3	5	106	23.12	14.58	10.16	7.5	40.034	14.65	N/A
340032	E0750	230	30.4	1	7.5	161	27.53	N/A	10.78	8.5	44.990	N/A	N/A
340033	340005 E0K500	208-230/460	20.1-18.5/11.1	3	7.5	116	24.50	28.08	10.16	7.5	45.660	45.12	N/A
340034	340006 E0K1000	208-230/460	27.1-24.3/12.2	3	10	146	28.31	29.81	10.78	8.5	43.290	46.73	N/A
340035	340007 E0K1500	208-230/460	40.0-36.0/17.8	3	15	181	28.31	29.81	10.78	8.5	43.290	46.73	N/A
340038	E01000	230	40.0	1	10	179	28.0	N/A	11.50	8.5	46.290	N/A	N/A

340003 Strainer Pot Assembly, including Strainer, Lid, Basket and Hardware

EO Series Commercial Pump Without Strainer Pot (6 Inch x 6 Inch)

Part #	Part #	Description	Voltage	Amps	Phase	HP	Wt
340014	EDW 300 WaterFall	115/230	38/19	1	3	97	
340016	EDW 300 WaterFall	208-230/460	8.4-7.9/3.9	3	3	77	
340017	EDW 500 WaterFall	230	23.4	1	5	97	
340018	EDW 500 WaterFall	208-230/460	13.5-12.7/6.4	3	5	77	
340019	E0500	230	18.6	1	5	97	
340020	340008 E0K500	208-230/460	13.5-12.7/6.2	3	5	77	
340021	E0750	230	30.4	1	7.5	102	
340022	340009 E0K500	208-230/460	20.1-18.5/11.1	3	7.5	87	
340023	E01000	230	40.0	1	10	105	
340024	340010 E0K1000	208-230/460	27.1-24.3/12.2	3	10	117	
340024	340011 E0K1500	208-230/460	40.0-36.0/17.8	3	15	132	

EO Series Pumps are available in 575-V and 50-Hz models. Please contact your local sales representative or Pentair office for details.



MATERIALS AND DESIGN

PUMP BODY
 Volute type, back-pull-out design.
 • Pump Size
 - 6-inch ANSI-rated 125 bolted flange suction port.
 - 4-inch ANSI-rated 125 bolted flange discharge port.
 • Material - Volute and Motor Adapter
 - PPO resin.
 • Impeller
 - PPO resin.
 • Base
 - 6061 aluminum design, slotted for mounting ease.
 • Corrosion Prevention
 - All plastic pump for maximum hydraulic performance and corrosion prevention.

HAIR AND LINT STRAINER
 • Material
 - Separate bolt-on PPO resin body with plastic basket, polycarbonate resin thermoplastic lid, and stainless steel bolts.
 • Size
 - 6-inch ANSI-rated 125 bolted flange suction and discharge ports.

PUMP MAXIMUM THERMAL LIMITS
 • Ambient air temperature: 104° F.
 • Liquid temperature: 104° F.

MOTOR
 Standard JMJ type, Premium efficient COP class F insulated. On TEFC options, 3MJ type, premium efficient, class F insulated.
 • Frame and Size
 - NEMA-rated "C" frame.
 • Shaft
 - 303 stainless steel construction.
 • Design
 - 3-15 HP, 3,500 RPM, JM open drip-proof, continuous duty.
 - Three phase and single phase/5, 7½, 10 HP, 5-15 HP, 3,500 RPM, JMJ TEFC, continuous duty, three phase.
 • Bearings
 - Double-shielded, single row, deep-groove type, permanently lubricated.
 • Thermal Overload Protection
 - All models require external thermal overload protector.
 • Power Supply Required
 - Three-phase pumps are 208-230/460. Single-phase models are available in 208-230/460, 50-Hz only.

Use ANSI-rated class 125 plastic flange and 1/2-inch thick class 125 full flange gasket to make connection.

M5, M19

A.S.A. MFG. INC.
 www.asamfg.com
 info@asamfg.com

14879 SW 111th St. Dunnellon, FL 34432
 352-465-0236
 352-465-0239 FAX

HEAVY DUTY FIBERGLASS SUMPS

- Fast installation
- Rough sand exterior finish
- Durable smooth gelcoat interior
- No forming! No pouring!
- Premium fiberglass & resin for maximum structural strength
- Non-metallic - No grounding!
- 2" p.c.s. f.g.s. fitting for hydro relief valve and pebble pipe
- "Quick Mount" hardware and sealant included
- Custom configurations fabricated - Call us today!
- Optional waterproof flange

Legacy Flange Design

NSF

VGB 2008

Fiberglass LEGACY SUMP Dimensions

Sump Size & Part #	Dimensions (in inches)	Outlet Size	Compatible Grates
9" x 9"	10.5 8.5 12 4.5 6.5 3 3"	List A	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

WHITE GOODS & VALVES - SKIMMERS

M6

U-3 SKIMMERS
 SWIMQUIP® INGROUND SKIMMERS

Featured Highlights

- Screw down lockable lid.
- 1-1/2" x 40mm or 2" x 50mm slip or threaded ports.
- Optional equalizer valve.
- Compliant to AS1926.3

U-3 Skimmers feature a heavy-duty one-piece construction with sturdy external ribbing for superior strength. All U-3 Skimmers are made from high-strength ABS plastic.

Ordering Information

Product	Description	Carton Dimensions (in)	Pallet Qty.	Carton Wt. (lb)
08650-10A	U-3 Skimmer White w/White L&L Frame, 2" Slip with 1.02 In. Slip Reducers, Inc. Filter and Check Valve, Basket	39x26x24x15	26	4
08655-10A	U-3 Skimmer White, 2 in. Slip with 1.02 In. Slip Reducers	39x26x24x15	26	4

Dimensions

All dimensions in mm. See page 182 for replacement parts.

M2

Triton® II
 Fiberglass Sand Filter

The Triton® II sand filter is designed for high flow and low pressure drop. It features a unique design that allows for easy maintenance and a long service life.

Features:

- High flow sand filter
- Low pressure drop
- Easy maintenance
- Long service life

Specifications:

Model	Filter Area (sq. ft.)	Vertical Clearance (in.)	Filter Capacity (cu. ft.)	Flow Rate (GPM)	Pressure Drop (psi)
TR 40	0.78	42	0.8	100	1.0
TR 50	0.98	52	1.0	125	1.0
TR 60	1.18	62	1.2	150	1.0
TR 70	1.38	72	1.4	175	1.0
TR 80	1.58	82	1.6	200	1.0
TR 90	1.78	92	1.8	225	1.0
TR 100	1.98	102	2.0	250	1.0

AVAILABLE FROM:

PENTAIR

M3

Blue-White Industries, Ltd.
 Engineering and Technical Data

F-300 U-300 D-300
 Clamp-on Insertion Meters

Features:

- 1" through 6" pipe size.
- Flow rates from 4 to 1000 GPM.
- Resistant PVCDF internal float materials.
- One piece machined acrylic body.
- Mounts to existing pipe. No unions or adapters required.
- Mounts for mounting on horizontal or vertical pipe.
- Mounting clamps and gaskets included.
- NDF Label.

Specifications:

Pipe diameters: 1/2 inch pipe size (ASTM-D-1785)
 Accuracy: 1", 1.25", 1.5" and 2" pipe size: 5% of rate
 2.5", 3", 4", 5", and 6" pipe size: 10% of rate

Materials of Construction:
 Meter Body: Cast Acrylic
 Gasket: Neoprene
 Float: PVCDF
 Pipe Clamp: 316 Series Stainless Steel

Installation Requirements:
 Minimum Straight Pipe Length Requirements
 The meter accuracy is affected by disturbances such as pumps, valves, bends, elbows, etc. in the flow stream. Install the meter in a straight run of pipe as far as possible from any disturbances.

EXAMPLE OF MINIMUM STRAIGHT PIPE LENGTH

Nominal Pipe Diameter	Minimum Inlet Pipe Length	Minimum Outlet Pipe Length
4 inch	20 inch (5' x 4')	8 inch (2' x 4')
6 inch	30 inch (5' x 4')	12 inch (2' x 4')

Mounting location

- The meter is designed for unobstructed outdoor conditions.
- A gasket must be installed at the vertical (Dimple) outlet position on horizontal pipe.
- 1/2" A series meters must be installed on vertical pipe only.
- The float must be completely full of water at all times.
- Use the minimum straight length of pipe requirement chart above.
- The meter accuracy is affected by disturbances such as pumps, valves, bends, elbows, etc. in the flow stream.
- Installation of a corrosion-resistant meter is required for corrosive fluids.

M4

RAINBOW™
 HIGH CAPACITY CHLORINE/BROMINE FEEDERS

Designed for ease of use and simple maintenance. Drain valve allows easier draining for safer recharging or winterizing. Standard threaded inlet and outlet fittings included for easy installation.

Models & Specifications

Model	HC-3015	HC-3030	HC-3045
Part Number	897015	897030	897045
Capacity	15 lb.	30 lb.	45 lb.
Width	8"	8"	8"
Depth	10"	10"	10"
Maximum Clearance	22"	22"	22"
Capacity (lb.)	15	30	45

AVAILABLE FROM:

PENTAIR

M19

AQUASTAR
 12" x 12" Square "Wave" Anti-Entrapment Suction Outlet Cover and Frame

VGB Series
 The AquaStar line of suction outlet covers, compliant with the new Product Specification Sheet

Features:

- Designed for ease of use and simple maintenance.
- Drain valve allows easier draining for safer recharging or winterizing.
- Standard threaded inlet and outlet fittings included for easy installation.

Part Numbers / Colors

- WAV1201 White
- WAV1202 Black
- WAV1203L Grey
- WAV1204 Blue
- WAV1205Dk Grey
- WAV1206 Tan
- WAV1207 Teal

