PLANS FOR:

PROVIDENCE CREEK AMENITY CENTER & POOL

INDEX OF SHEETS

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

NOTES

1. 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.
2. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
   A. 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.
   B. 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

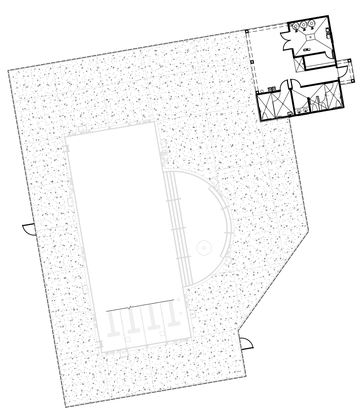
ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018
NORTH CAROLINA
STATE BUILDING CODE:
STATE BUILDING CODE

ENGINEER OF RECORD

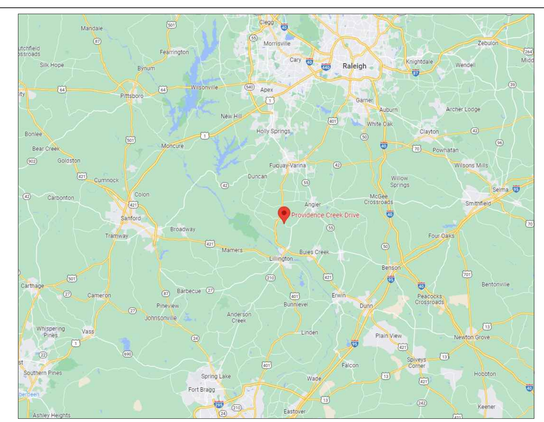
JDS CONSULTING, PLLC
ENGINEERING · DESIGN · ENERGY
8600 'D' JERSEY COURT
RALEIGH, NC 27617
FIRM LIC. NO: P-0961

PROJECT REFERENCE: 23900139



KEY PLAN

SCALE: NTS



VICINITY MAP

SCALE: NTS

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting, PLLC, 8600 'D' 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

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	SHTG	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

1. 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.
2. 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.
3. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
5. 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.
6. 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.
7. 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.
8. DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS.

DESIGN CRITERIA

1. BUILDING CODE: SEE TITLE SHEET
2. ASSUMED SOIL BEARING-CAPACITY ..... 2,000 PSF
3. DESIGN LIVE LOADS
   - a. ROOF: ..... 20 PSF
   - b. FLOOR (OFFICE) : ..... 50 PSF
   - c. FLOOR (CORRIDOR) : ..... 100 PSF
4. SNOW LOADS
   - a. GROUND SNOW: ..... 15 PSF
   - b. FLAT ROOF SNOW, Pf: ..... 15 PSF
   - c. SNOW EXPOSURE FACTOR, Ce: 1.0
   - d. IMPORTANCE FACTOR, Is: 1.0
   - e. THERMAL FACTOR, Ct: 1.0
   - f. DRIFT SURCHARGE LOAD(S), Pd:
   - g. WIDTH OF SNOW DRIFT(S), w:
5. WIND
   - a. ULTIMATE DESIGN WIND SPEED: ..... 118 MPH
   - b. NOMINAL DESIGN WIND SPEED: ..... 89 MPH
   - c. RISK CATEGORY: II
   - d. WIND EXPOSURE CATEGORY: ..... B
   - e. INTERNAL PRESSURE COEFFICIENT: ..... +/- 0.18
   - f. ROOF COMPONENTS AND CLADDING: ..... + 10 PSF, - 31 PSF
   - g. WALL COMPONENTS AND CLADDING: ..... + 18 PSF, - 20 PSF
6. SEISMIC
   - a. RISK CATEGORY: II
   - b. IMPORTANCE FACTOR, Ie: 1.0
   - c. MAPPED SPECTRAL RESPONSE ACCELERATION, Ss:0.116 g
   - d. MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.058g
   - e. SITE CLASS: ..... D
   - f. DESIGN SPECTRAL RESPONSE ACCELERATION, Sds: 0.23 g
   - g. DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1: 0.14g
   - h. SEISMIC DESIGN CATEGORY: ..... B
   - i. BASIC SEISMIC FORCE-RESISTING SYSTEM: ..... STEEL MOMENT FRAME
   - j. DESIGN BASE SHEAR: ..... V = 8 k
   - k. SEISMIC RESPONSE COEFFICIENT, CS: 0.04
   - l. RESPONSE MODIFICATION COEFFICIENT, R: 6.5
   - m. ANALYSIS PROCEDURE: ..... EQUIVALENT LATERAL FORCE

FOUNDATION

1. 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.
2. 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.
3. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

STRUCTURAL CONCRETE

1. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
2. NORMAL-WEIGHT CONCRETE SHALL HAVE A MAXIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT (PCF), UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60, INCLUDING TIES AND STIRRUPS.
4. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - A. Unformed surfaces in contact with ground: 3"
   - B. Formed surfaces exposed to earth or weather: 2"
   - C. Formed surfaces not exposed to earth or weather 1 1/2"
5. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE THE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
6. 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.
7. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.
8. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY SHALL BE AIR-ENTRAINED WHEN REQUIRED BY THE APPLICABLE CODE.
9. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

STRUCTURAL MASONRY

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (CMU) SHALL BE 1,900 PSI ON NET AREA.
2. MORTAR SHALL BE TYPE S AND COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
3. COMPRESSIVE STRENGTH OF MORTAR SHALL BE 1,800 PSI AT 28 DAYS.
4. COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE SHALL BE 1,500 PSI ON NET AREA.
5. 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

1. STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992. Fy = 50 KSI, UNLESS NOTED OTHERWISE.
2. ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI, UNLESS NOTED OTHERWISE.
3. ALL STRUCTURAL STEEL PIPE SHAPES SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
4. ALL MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
5. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO *AISC CODE OF STANDARD PRACTICE*, SECTION 10.
6. BOLTS FOR BOLTED CONNECTIONS SHALL BE 3/4" DIAMETER, ASTM A325, TYPE N, SNUG TIGHT, UNLESS NOTED OTHERWISE.
7. FABRICATOR SHALL DESIGN BEAM CONNECTIONS PER LOADS PROVIDED IN *AISC UNIFORM LOAD TABLES*, UNLESS NOTED OTHERWISE.
8. ALL BEAMS AND GIRDERS SHALL HAVE THEIR ROLLING CAMBER PLACED UP.
9. 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.
10. SPLICING OF STRUCTURAL STEEL MEMBERS, WHERE NOT DETAILED, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
11. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS NOTED OTHERWISE.
12. NO FINAL BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
13. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
14. 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

1. ALL STRUCTURAL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%, UNLESS NOTED OTHERWISE.
2. 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
3. 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
4. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

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

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

   Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI
7. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.
8. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
9. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
10. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
11. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
12. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
13. FACE OF WALL FRAMING TO BE FLUSH WITH FACE OF FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
14. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
15. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
    - A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
    - B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
    - C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
    - D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
16. 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.
17. 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).
18. 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).
19. 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.
20. 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

1. 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.
2. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
3. DENOTES OVER-FRAMED AREA
4. MINIMUM 7/16" OSB ROOF SHEATHING
5. 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.
6. 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.
7. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
8. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
9. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.
10. 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.

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TY 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

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
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B

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
3rd Floor			
2nd Floor			
Mezzanine			
1st 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 ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 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.

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

$$\_\_\_\_ + \_\_\_\_ + \ldots\ldots = \_\_\_\_ \leq 1.00$$

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 (maximum3 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)	RATING 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 #: B2.1

☐ 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	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
PARKING LOT	10	20	0	2	2	2
TOTAL	10	20	0	2	2	2

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

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

SPECIAL APPROVALS

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

HARNETT COUNTY HEALTH DEPARTMENT APPROVAL

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
Jonathan M. Crouch
5/4/23

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 5800 77 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
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: 23900139
DATE: 05/02/2023
DRAWN BY: FAB

CODE SUMMARY

APP.B1

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)
Description of assembly: FIBERGLASS SHINGLES OVER WOOD SHEATHING 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)
Description of assembly: LAP SIDING, RIGID INSULATION, WOOD STUDS, BATT INSULATION, 1/2" GWB.
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 S_1 0.063 %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: _____

SEE SHT M2.0

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

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
Jonathan M. Crouch 5/2/23
P-0961

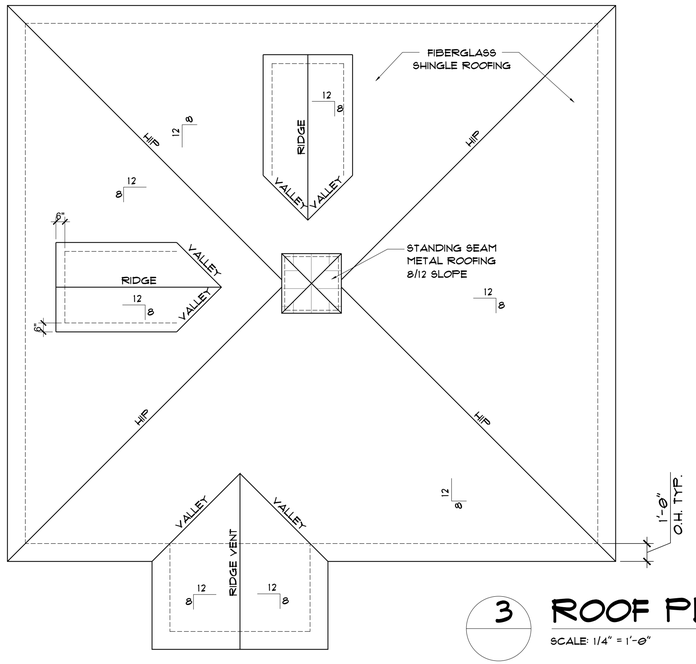
JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 ST JERSEY CT, RALEIGH, NC 27617 919.480.1075
INFO@JDSCONSULTING.NET - WWW.JDSCONSULTING.NET

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

PROJECT NO.: 23900139
DATE: 05/02/2023
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. PTD. GWB ABOVE.	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
WOMENS	CERAMIC TILE TO 48" A.F.F. PTD. 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"X7'-0"	6 PANEL WOOD	HM	02	-
02	2'-6"X7'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
03	3'-0"X7'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOUVERED
04	PAIR 3'-0"X7'-0"	6 PANEL WOOD	HM	05	FULL LOUVERED DOOR
05	3'-0"X7'-0"	6 PANEL WOOD	HM	04	BOTTOM PANEL TO BE LOUVERED
WINDOW A	34"X54"	DOUBLE HUNG	WOOD		ADD OBSCURE GLAZING FILM
WINDOW B	34"X16"	TRANSOM	WOOD		ADD OBSCURE GLAZING FILM

HARDWARE SETS

01	1 1/2 PR 4 1/2 X 4 1/2 SS BB BUTTS, PUSH PLATE, HC PULL, DEAD BOLT WITH HC LATCH ON INSIDE, CLOSER, THREASHOLD, MUTES AND WEATHERSTRIPPING, FLOOR STOP
02	1 1/2 PR 4 1/2 X 4 1/2 SS 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 SS BB BUTTS, PASSAGE DOOR LOCKSET, CLOSER, MUTES, WALL STOP
05	3 PR 4 1/2 X 4 1/2 SS 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

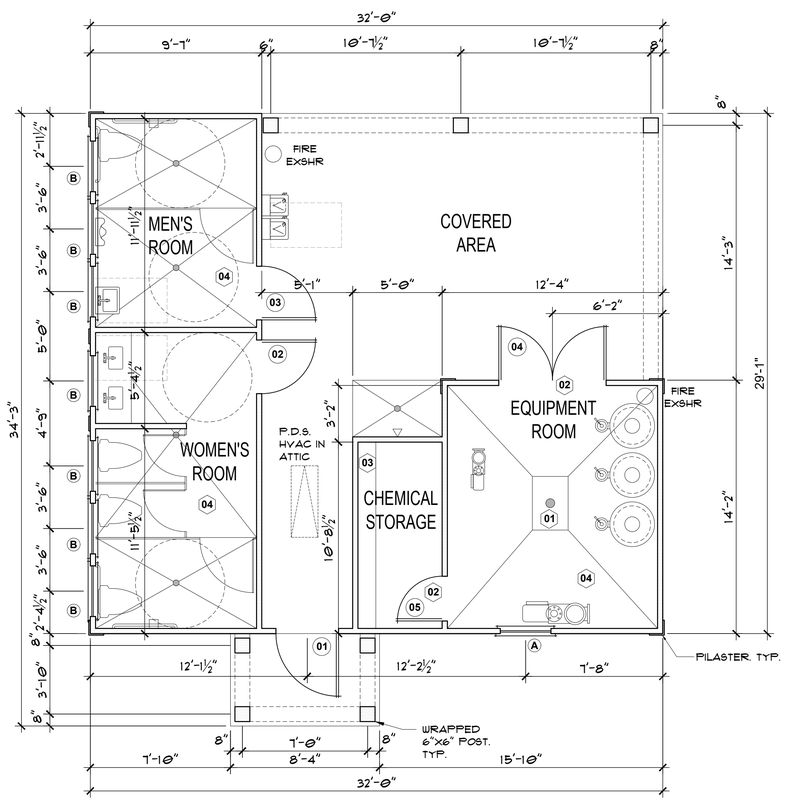
GENERAL NOTES

01 24" DEEP CONCRETE SUMP WITH 4" THICK WALLS AND FLOOR. COVER WITH 2" THICK FIBERGLASS GRATE. GRATE OPENINS 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 CONRETE ANCHORS.

02 DOORS TO THE CHEMICAL STORAGE ROOM AND EQUIPMENT ROOM SHALL HAVE PLACARDS PER NFPA 704 ACCORDING TO THE HAZARDS PRESENT.

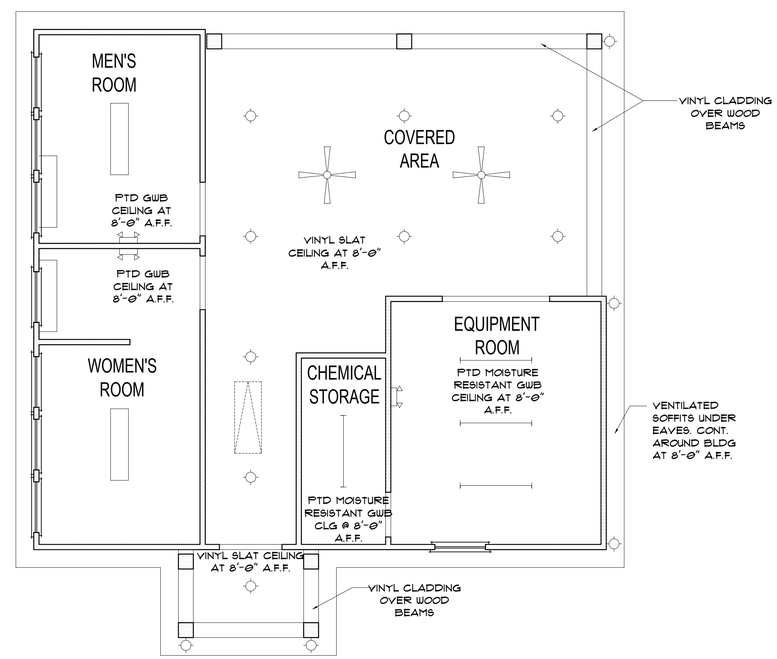
03 NON-CORROSIVE SHELF, SUPPORTED 16" ABOVE FLOOR ON 8" CMU'S

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"

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TY JERSEY CT, RALEIGH, NC 27617 919.488.1075
INFO@JDSCONSULTING.NET - WWW.JDSCONSULTING.NET

CLIENT: MATTAMY HOMES

PROJECT: PROVINCE CREEK AMENITY CENTER & POOL

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

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

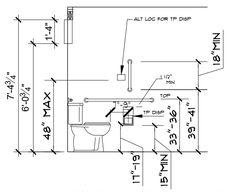
PROJECT NO.: 23900139

DATE: 05/02/2023

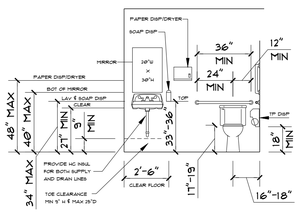
DRAWN BY: FAB

FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES

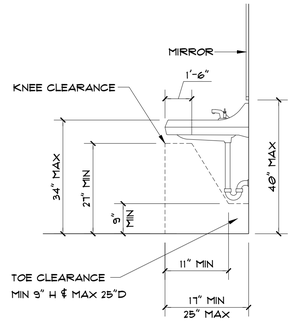
B1.0



ELEVATION - 5



ELEVATION - 6

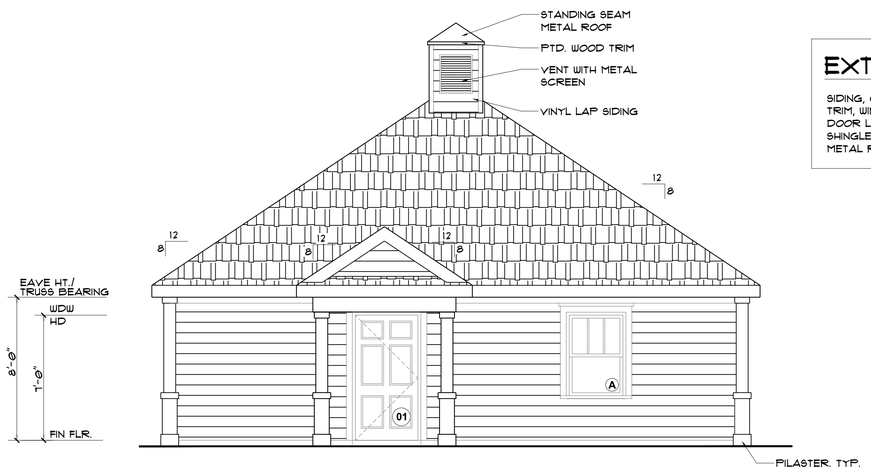


ELEVATION - 7

NOTE: FINISH DIMENSIONS

HC RESTROOM ELEVATIONS

SCALE: N.T.S.

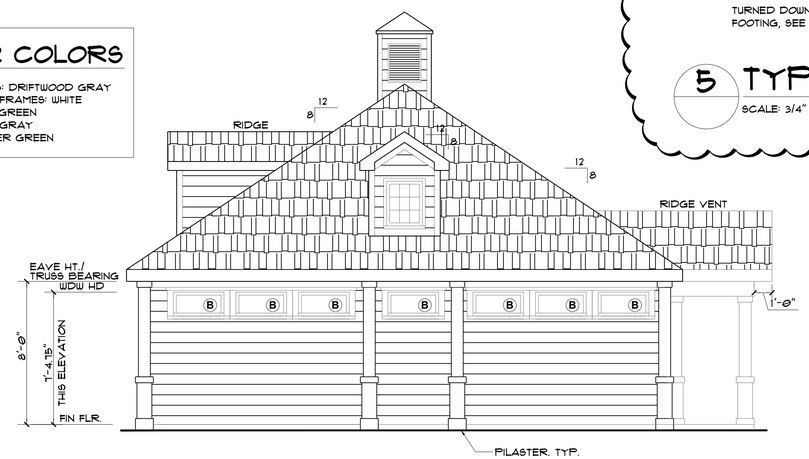


1 WEST ELEVATION

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

EXTERIOR COLORS

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

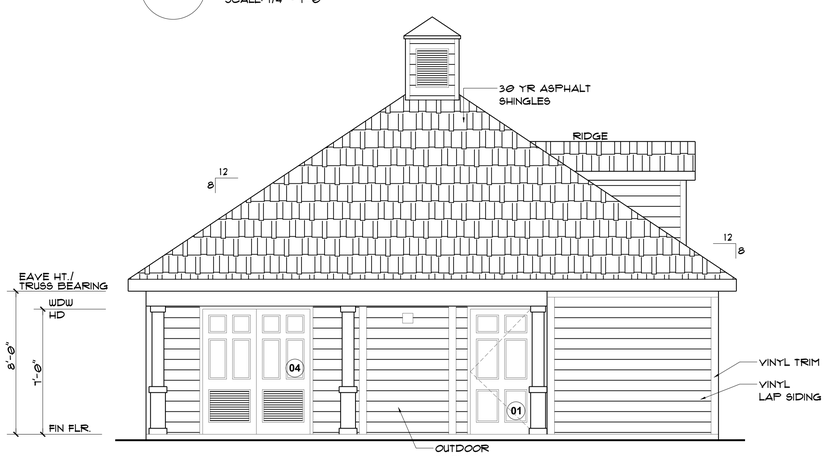


3 SOUTH ELEVATION

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

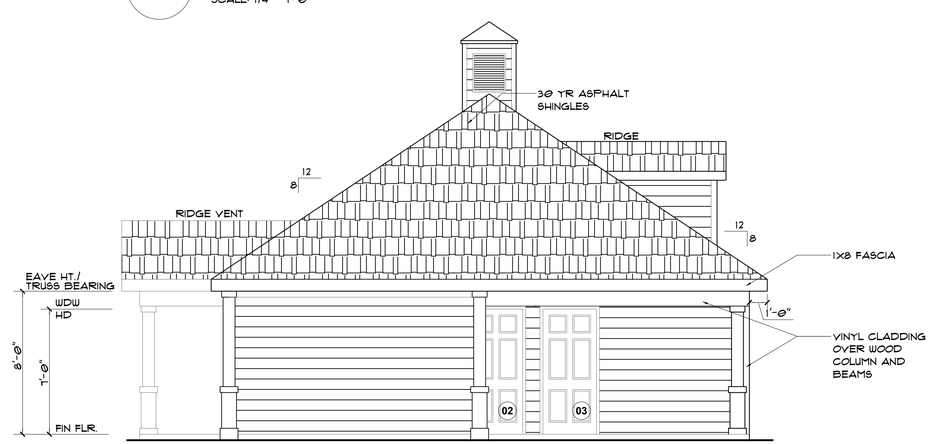
232 SF AREA EAST ELEVATION

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
5.0 SF AREA - WINDOW 7
5.4 SF AREA - COLUMN
5.4 SF AREA - COLUMN
6.6 SF AREA - DORMER GLAZING
5.4 SF AREA - PILASTER 1
5.4 SF AREA - PILASTER 2
5.4 SF AREA - PILASTER 3
5.4 SF AREA - PILASTER 4
74 SF AREA - TOTAL 31.8%



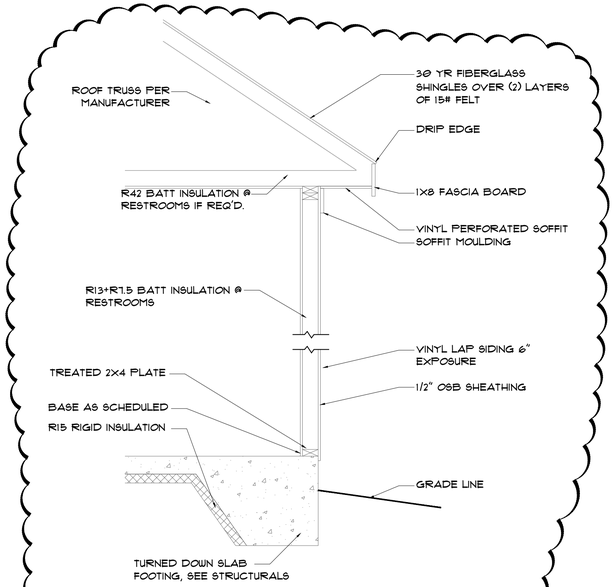
2 EAST ELEVATION

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



4 NORTH ELEVATION

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



5 TYP. WALL SECTION

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

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. GROUCH
Jonathan M Grouch
5/2/23
P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting, PLLC, 5400 77 JERSEY CT, RALEIGH, NC 27617 919.488.1075
INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

CLIENT: MATTAMY HOMES

PROJECT: PROVINCE CREEK AMENITY CENTER & POOL

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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

ELEVATIONS, RESTROOMS, WALL SECTION

B2.0

POOL DECK OCCUPANCY REQUIREMENTS

TOTAL POOL DECK AREA IS 4,734 SF. E MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,116 SF. CROSS AREA 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.

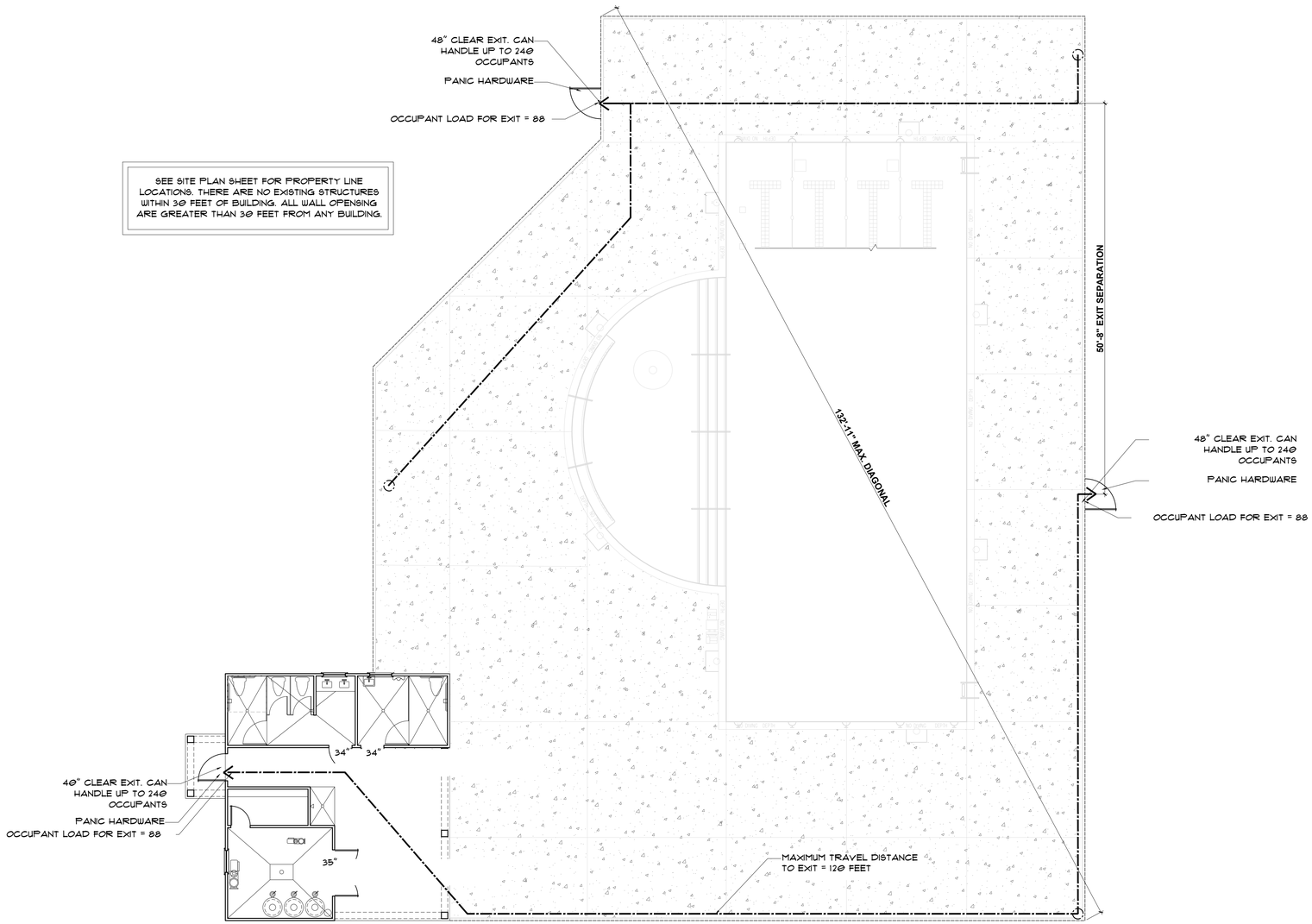
COVERED AREA IS 421 SF. AT 15 SF PER PERSON, COVERED AREA OCCUPANT LOAD IS 28.

POOL AREA IS 2,969 SF. AT 50 SF PER PERSON, POOL OCCUPANT LOAD IS 60.

TOTAL OCCUPANT LOAD OF 263*0.2 EQUAL 53" OF EXIT REQUIRED, 3 EXITS REQ'D. MIN. OF 132" SHOWN ON PLAN.

REQ'D EXIT SEPARATION EQUALS ⅓ THE 133' DIAGONAL, OR 66'. 50'-3" SHOWN ON PLANS.

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



1 LIFE SAFETY PLAN

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

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH

P-0961

JDS Consulting ENGINEERING • DESIGN • ENERGY

JDS Consulting, PLLC, 8400 D 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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR THE LIFE OF THE PROJECT AS A REFERENCE. DIMENSIONS ON THIS SHEET 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

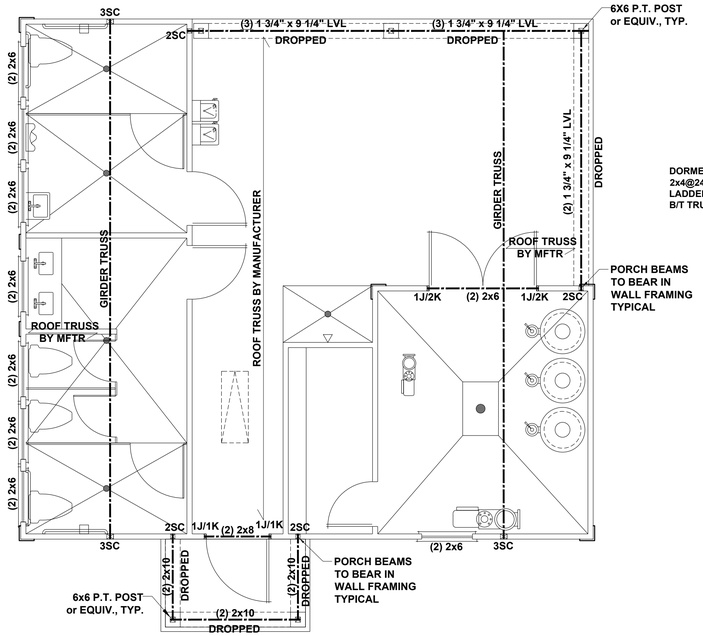
PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

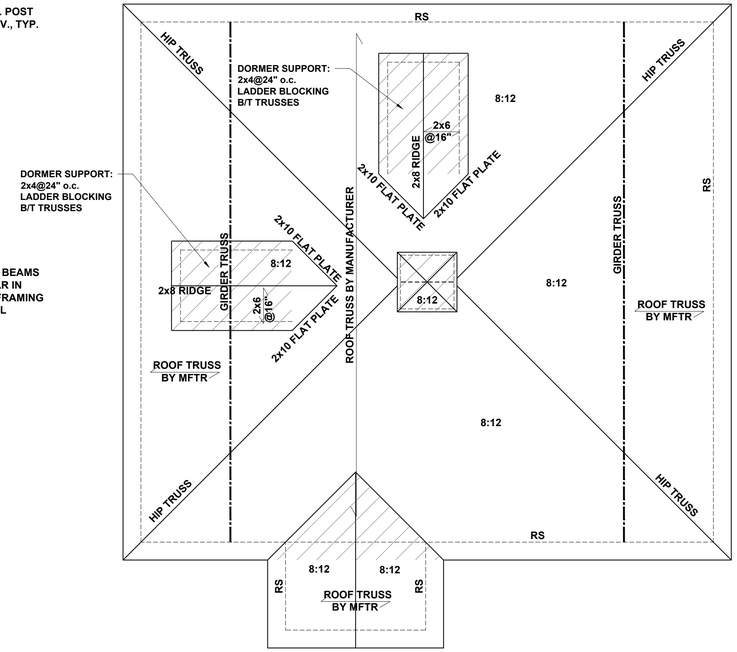
UL DETAILS

B2.1



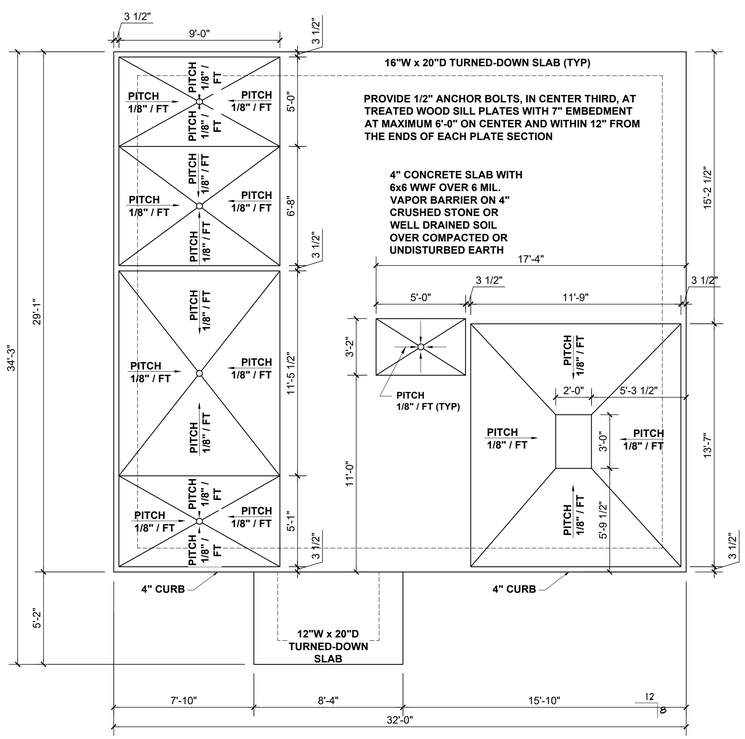
CEILING FRAMING PLAN

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



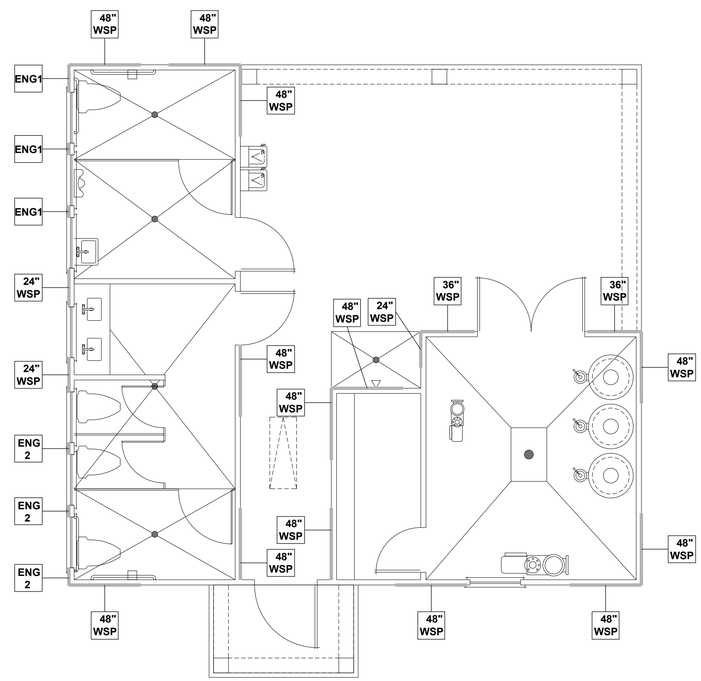
ROOF FRAMING PLAN

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



SLAB FOUNDATION PLAN

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

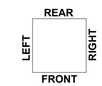


WALL BRACING PLAN

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

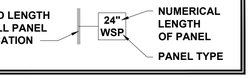
WALL BRACING REQUIREMENTS

- 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:



◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.



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.)

1. ALL FRAMING TO BE #2 SPF MINIMUM.
2. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
4. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
5. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
6. ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
8. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
9. 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.
10. 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.
11. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC 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).
12. 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

1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
2. DENOTES OVER-FRAMED AREA
3. MINIMUM 7/16" OSB ROOF SHEATHING
4. 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.
5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
7. 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 NCRC. 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

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TT 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

FIRST FLOOR FRAMING PLAN

S1.0

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
1. SCREEN
2. BACKDRAFT DAMPER
3. COLOR BY OWNER
4. INTEGRAL DISCONNECT SWITCH
5. SPEED CONTROLLER
6. CORROSION RESISTANT

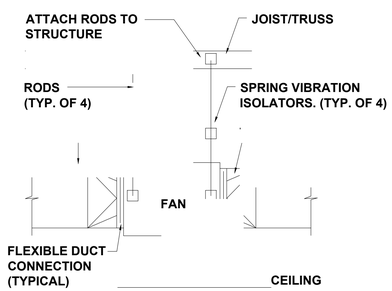
CONTROL OPTIONS
A. CONTROL W/ ROOM LIGHTS
B. CONTINUOUS OPERATION

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
1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:

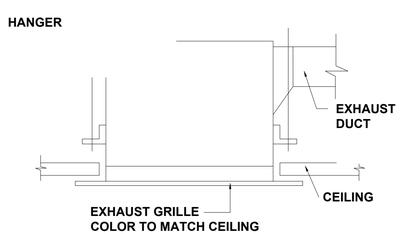
DIFFUSER OR NECK SIZE — 8X4
AIR QUANTITY — 75
DIFFUSER TYPE AS NOTED ABOVE

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



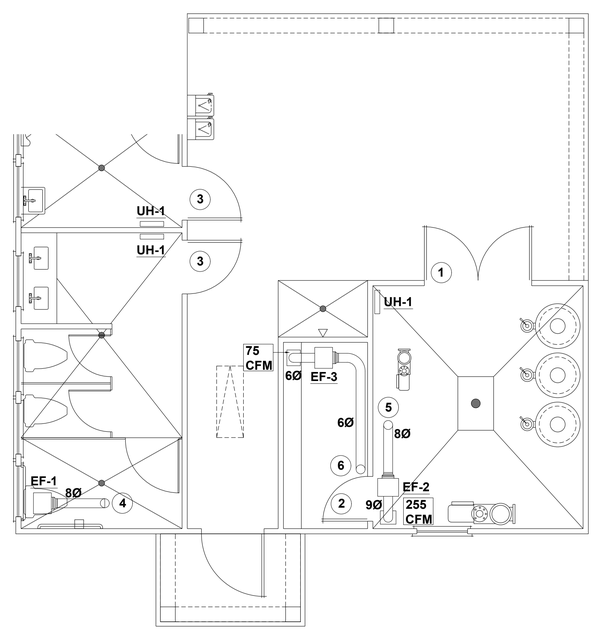
IN-LINE FAN DETAIL

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

' SCALE DRAWINGS. SEE ARCHITECTURAL
IGS AND REFLECTED CEILING PLANS FOR EXACT
ON OF DOORS, WINDOWS, CEILING DIFFUSER.
CTWORK SHALL BE GALVANIZED SHEET METAL
RUCTED IN ACCORDANCE WITH THE LATEST
A STANDARDS. ALL RECTANGULAR SUPPLY AND
d DUCTWORK AND ALL ROUND DUCT SHALL MEET
QUIREMENTS OF INTERNATIONAL ENERGY CODE
N 503.
NSATE DRAIN PIPING SHALL BE HARD DRAWN
R (TYPE 'L'), PVC ACCEPTED.
ING, DUCTS, VENTS, ETC. EXTENDING THROUGH
AND ROOF SHALL BE FLASHED
ER-FLASHED IN A WATERPROOF MANNER. ALL
TATIONS IN WALLS OR CEILINGS THAT ARE FIRE
SHALL BE SEALED TO THE FIRE RATING OF WALL
ING EVEN IF NOT SHOWN ON PLANS IN A UL
LISTED METHOD.
5. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
6. ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.
7. LOCATE ALL THERMOSTATS AND SWITCHES 48" AFF TO MEET ACCESSIBILITY CODE LATEST ADDITION.
8. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS.
9. CONTRACTOR SHALL COORDINATE DESIGN DRAWINGS WITH ARCHITECTURAL DRAWINGS.

ADDITIONAL MECHANICAL NOTES

1. 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.
2. COORDINATE ELECTRICAL REQUIREMENTS OF THE UNITS WITH ELECTRICAL CONTRACTOR.
3. PROVIDE RETURN AIR GRILL WITH FILTER.
4. ALL EQUIPMENT AND DUCTWORK SHALL BE INSTALLED PER MANUFACTURER AND IN ACCORDANCE WITH STATE AND LOCAL CODES AS WELL AS SMACNA STANDARDS.
5. ALL UNITS TO BE WIRED FOR SINGLE SOURCE POWER. ALL AHU SHALL HAVE AN AUTOMATIC SHUT DOWN SWITCH INSTALLED.
6. 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.
7. MECHANICAL CONTRACTOR TO COORDINATE DUCTWORK LAYOUT WITH ALL TRADES.
8. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER FOR LENGTH OF RUN BETWEEN COIL AND CONDENSER.
9. VERIFY THERMOSTAT LOCATIONS WITH OWNER.
10. 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

1. PUMP ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.83 SQFT. FULL HEIGHT LOUVERED DOOR, SEE ARCH. PLANS FOR DOOR DETAILS.
2. CHEMICAL STORAGE ROOM DOOR REQUIRES A MIN. FREE AREA OF 0.26 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
3. BATHROOM DOOR REQUIRES A MIN. FREE AREA OF 0.45 SQFT. DOOR LOUVER GRILLE, SEE ARCH. PLANS FOR DOOR DETAILS.
4. 8Ø EXH. DUCT TO EXHAUST THROUGH ROOF.
5. 8Ø EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.
6. 6Ø EXH. DUCT TO EXHAUST THROUGH ROOF. PROVIDE AIR TIGHT CONNECTION BETWEEN DUCT AND ROOF.

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. GROACH
5/2/23

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TY 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

MECHANICAL PLAN

M1.0

POOL NOTES

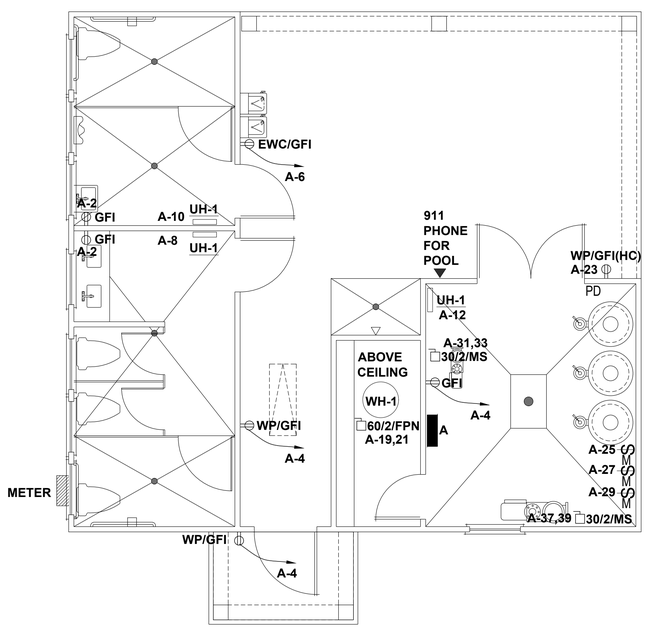
1. ALL ELECTRICAL EQUIPMENT IN POOL AREA SHALL BE BONDED TOGETHER WITH #8 CU. GND. PER N.E.C. #680-26.
2. ALL RECEPTACLES IN POOL AREA WITHIN 20' OF POOL AND IN POOL EQUIPMENT ROOM SHALL BE WEATHERPROOF G.F.C.I. TYPE.
3. ELECTRICAL INSTALLATION IS TO BE IN COMPLIANCE WITH ARTICLE 680 OF THE N.E.C.
4. THE FOLLOWING ITEMS ARE REQUIRED TO BE BONDED WITH INSULATED #8 COPPER WIRE, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
   A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING STEEL WITHIN 5' HORIZONTALLY OF THE POOL WALL IN ALL CONCRETE SLABS.
   B. UNDERWATER LIGHT FIXTURES, INCLUDING FORMING SHELLS, MOUNTING BRACKETS AND JUNCTION BOXES AS REQUIRED.
   C. HANDRAILS.
   D. LADDERS.
   E. PUMP MOTORS, FOR ALL POOLS.
   F. WINDOW FRAMES, WHERE NOTED.
   G. LIGHT FIXTURES ABOVE THE POOL AND WITHIN 5 FEET HORIZONTALLY OF THE POOL WALLS.
   H. ANY OTHER METALLIC PARTS REQUIRED BY THE N.E.C.
5. THE FOLLOWING ITEMS ARE REQUIRED TO BE GROUNDED WITH INSULATED #12 COPPER WIRE, OR AS OTHERWISE REQUIRED BY THE N.E.C. OR EQUIPMENT MANUFACTURERS:
   A. UNDERWATER LIGHTING FIXTURES.
   B. ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CIRCULATION SYSTEM OF THE POOL.
   C. ALL ELECTRICAL EQUIPMENT WITHIN 5 FEET OF THE POOL.
   D. JUNCTION BOXES.
   E. TRANSFORMER ENCLOSURES.
   F. PANELBOARDS SUPPLYING POWER TO ANY EQUIPMENT ASSOCIATED WITH THE POOL OR SPRAY AREA.
   G. GROUND FAULT INTERRUPT CIRCUITS.
6. GROUNDING FOR POOL LIGHTS AND FOR PUMP MOTORS IS TO BE IN CONDUIT.
7. ALL UNDERWATER LIGHT FIXTURES MUST BE SUBMERGED BEFORE BEING OPERATED.
8. UNDERWATER LIGHT FIXTURES MUST BE REMOVABLE FROM THE WATER FOR RELAMPING OR NORMAL MAINTENANCE WITHOUT REQUIRING DRAINAGE OF THE POOL.
9. NICHE LIGHT FIXTURES SHALL BE SUPPLIED WITH CORDS WHICH ARE LONG ENOUGH TO REACH THE DECK JUNCTION BOX WITHOUT INTERMEDIATE SPLICING. CONDUIT RUNS FROM EACH NICHE TO THE APPROPRIATE CONNECTION POINT (DECK BOX, SUBMERSIBLE JUNCTION BOX, ETC.) MUST BE AS DIRECT AS POSSIBLE AND A TOTAL LENGTH SHORTER THAN THE CORD WHEN PROPERLY INSTALLED. TO PROPERLY INSTALL FIXTURE AND CORD, LEAVE ENOUGH CORD IN THE NICHE SO THAT WHEN SERVICING IS REQUIRED THE FIXTURE CAN BE LIFTED ABOVE WATER LEVEL WITHOUT DRAINING THE POOL (WRAP EXTRA CORD LENGTH AROUND THE FIXTURE WHEN PLACING IN NICHE).
10. WHEN RESEALING A FIXTURE (SUCH AS AFTER RELAMPING, ETC.) CARE MUST BE TAKEN TO TIGHTEN THE SCREWS OR BOLTS IN SUCH A FASHION AS TO CREATE EQUAL PRESSURE ON THE GASKET ALL THE WAY AROUND THE FIXTURE (FOLLOW MANUFACTURERS INSTRUCTIONS).
11. ALL THREADED CONNECTIONS MUST BE MADE WITH NATIONAL TAPERED PIPE THREADS (N.P.T.) AND APPROVED THREAD SEALANT.
12. AN APPROVED POTTING COMPOUND (LOW MELTING PARAFFIN OR RTV SILASTIC) MUST BE USED TO FILL THE ENTRY OF THE JUNCTION BOX TO PREVENT MOISTURE MIGRATION INTO THE CONDUIT. AFTER POTTING THE JUNCTION BOX, ATTACH THE COVER PLATE SO THAT IT IS WATERTIGHT.
13. ALL METALLIC PIPING SYSTEMS ASSOCIATED WITH THE POOL MUST BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE POOL.
14. UNDERWATER TYPE SO AND ST CORD CANNOT BE SPLICED EXCEPT IN AN APPROVED UNDERWATER JUNCTION BOX OR UL LISTED UNDERWATER SPLICE KIT.
15. MAXIMUM EXPOSED CORD LENGTH IS 10 FEET, ANY LENGTH BEYOND 10 FEET MUST BE PROTECTED BY CONDUIT.
16. THE CONDUIT SYSTEM MUST BE WATERTIGHT FROM THE PANEL TO THE POOL.
17. ALL CONDUITS EXPOSED TO MOISTURE (BELOW GROUND, IN THE POOL, ETC.) MUST BE OF A NON-CORROSIBLE MATERIAL.
18. ALL POOL EQUIPMENT MOTORS SHALL BE PROVIDED WITH MOTOR STARTERS AS REQUIRED AND ALL CONTROL WIRING SHALL BE FURNISHED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.

ELECTRICAL ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
CU	COPPER WIRE
EF	ELECTRIC FAN
EL	EMERGENCY LIGHTING
EM	EMERGENCY EXIT SIGN
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HEAT PUMP
J	JUNCTION BOX
MCB	MINIATURE CIRCUIT BREAKER
PH	PHASE
OS	MOTION SENSOR
TWH	INLINE WATER HEATER

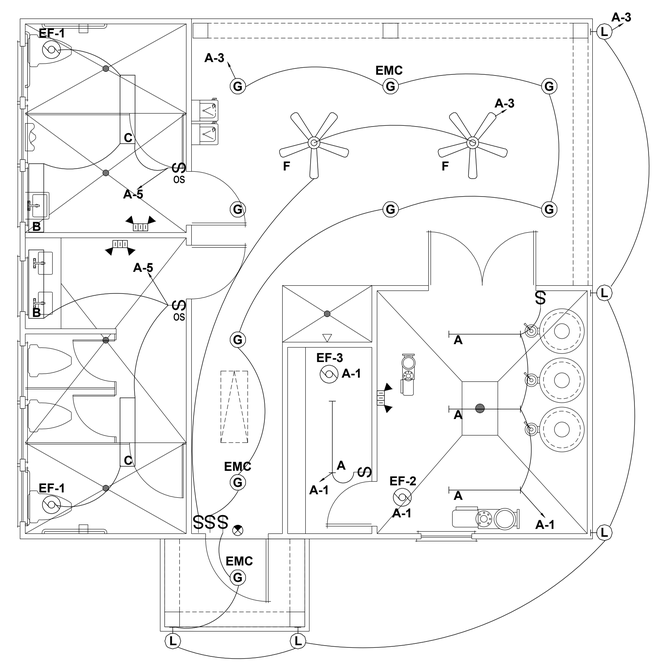
ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR IS TO REVIEW COMPLETE DRAWING SET BEFORE ANY WORK AND/OR INSTALLATION IS STARTED.
2. ELECTRICAL CONTRACTOR IS TO REPORT ON ANY DISCREPANCY(S) TO ENGINEER PRIOR TO WORK/INSTALLATION FOR CLARIFICATION AND/OR SOLUTION.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK EXPLICITLY SHOWN AND WORK IMPLIED UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICTS AND MISTAKES, AND TO ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ETC.)
6. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP, NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
7. FINAL ELECTRICAL CONNECTION(S) TO ALL EQUIPMENT, AND/OR FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC.) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
8. ALL CONDUCTORS SHALL BE COPPER AND TYPE NM #12AWG MINIMUM WIRE SIZES SHALL BE BASED ON 75 DEGREE WIRE & TERMINALS.
9. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
10. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH ELECTRICAL UTILITY PRIOR TO PURCHASING DISTRIBUTION EQUIPMENT.
11. ALL EQUIPMENT AND COMPONENTS INSTALLED AS PART OF THIS FACILITY SHALL BE NEW U.L. LISTED AND LABELED, AND INSTALLED PER THE 2008 NEC, ANY JURISDICTIONAL REQUIREMENTS AND PER THE MANUFACTURERS REQUIREMENTS.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADE DISCIPLINE TO AVOID INTERFERENCE AND RE-WORK.
13. ALL CONDUCTORS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED 24" B.F.G AND IN SCHEDULE 40 PVC CONDUIT.
14. ALL FLUORESCENT LAMPS SHALL BE T-8 SP 41 OR APPROVED EQUAL LAMPS SHALL BE ENVIRONMENTALLY SAFE.
15. ELECTRICAL CONTRACTOR SHALL CHECK FOR ELIMINATE SHORTS PRIOR TO ENERGIZING CIRCUITS. FAILURE TO DO SO WILL RESULT IN REPAIRS TO BE MADE AT NO EXPENSE TO OWNERS OR REPRESENTATIVES.
16. ELECTRICAL CONTRACTORS OR DESIGNATED TELECOMMUNICATIONS SUBCONTRACTOR SHALL COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.
17. FIRESTOP 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. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING, PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST FAN MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST DUCTWORK.
19. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SEALS TO MAIN DISTRIBUTION PANELS PER NEC 225.27.
20. ALL DEVICES TO BE INSTALLED FOR ADA ACCESSIBILITY PER ANSI A117.1
21. CONDUIT ENTERING COOLER AND FREEZER TO BE SEALED PER NEC 300.7
22. ELECTRICAL CONTRACTOR TO PROVIDE AIC PLAQUES PER NEC 110.24. WHERE APPLICABLE, PLAQUES SHALL ALSO INDICATE THAT THE BUILDING HAS TWO, OR MORE SERVICES IF TWO, OR MORE EXIST FOR THE BUILDING.
23. ALL EMERGENCY LIGHTS TO BE CONNECTED TO UNSWITCHED SIDE OF NEAREST LIGHT CIRCUIT.
24. ALL EXTERNAL LIGHTING TO BE CONNECTED TO TIMER AND PHOTO -CELL IF NOT INCLUDED.
25. WHENEVER AND WHEREVER APPLICABLE ALL OUTLETS/RECEPTICLES INSIDE OF ALL AMENITY STRUCTURES SHALL BE TAMPER RESISTANT.



ELECTRICAL FLOOR PLAN - POWER

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



ELECTRICAL FLOOR PLAN - LIGHTING

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

ELECTRICAL POWER LEGEND

SYMBOL	
S S	SWITCH, SINGLE POLE, 120/277V, 20A, 48" AFF, LEVITON 1221-2
S_M S_M	120 V, 20A, MOTOR RATED TOGGLE SWITCH
OS	OCCUPANCY SENSOR SWITCH, 120/277V, 20A, 48" AFF
	RECEPTACLE, DUPLEX, 120V, 20A, 18" AFF LEVITON TBR20 (TAMPER-RESISTANCE RECEPTACLE)
GFI	RECEPTACLE, DUPLEX GFI, 120V, 20A, ABOVE CABINET COUNTER TOP, GROUND FAULT INTERRUPTOR LEVITON 6898 (EXTERIOR IN NEMA 3R ENCLOSURE)
	EXHAUST FAN
	CEILING MOUNTED FAN
	ELECTRICAL PANEL
	PROPOSED METER
	HEAVY DUTY DISCONNECT SWITCH
	LIGHTED EMERGENCY EXIT SIGN WITH BATTERY BACKUP
	EMERGENCY LIGHTS WITH BATTERY BACKUP
	WALL MOUNTED LIGHT
	RECESSED LIGHT
	RECESSED MOUNTED 2X4 FLUORESCENT STRIP
	SURFACE MOUNTED FLUORESCENT STRIP

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
5/2/23

P-0961

JDS Consulting ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TT 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

ELECTRICAL PLANS

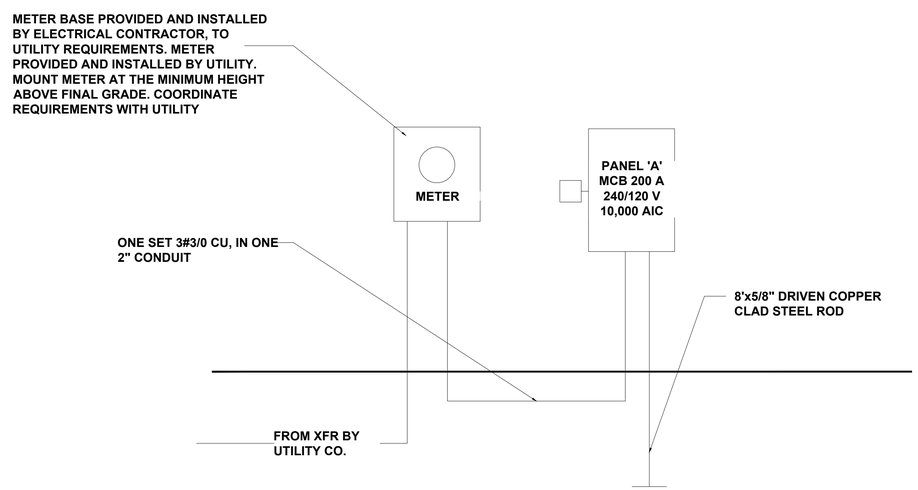
E1.0

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) A	PHASE LOADS (VA) B		POLE	TRIP AMPS	DESCRIPTION	CKT NO.
1	LIGHITNG 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	-	SPACE	40
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 RECEESED 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.



ELECTRICAL RISER

NTS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051518 JONATHAN M. CROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TF 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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR THE LIFETIME OF THE PROJECT. 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: 05/02/2023

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

DOMESTIC COLD WATER

DOMESTIC HOT WATER

CHECK VALVE (RPZ)

BALL VALVE (RPZ)

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	TYPE	MANUFACT.	MODEL	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	NOTES
							MANUFACT. MODEL NO.	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	SQAURE 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

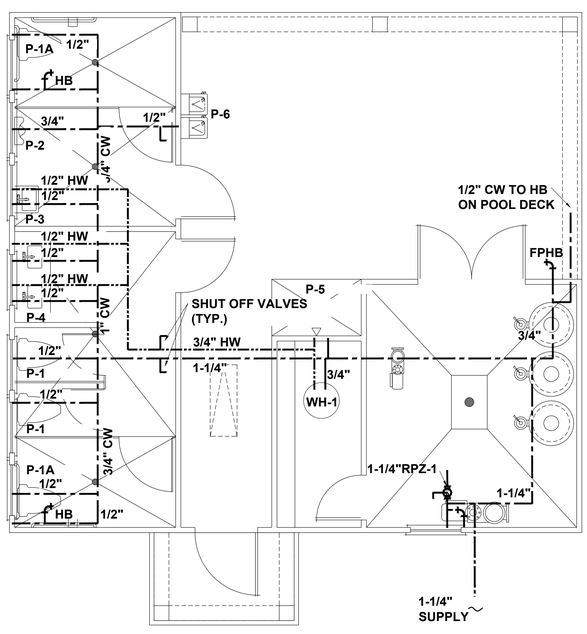
PLUMBING NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. INSTALL ANY GAS PIPING IN ACCORDANCE WITH CURRENT GAS CODES, REQUIREMENTS OF LOCAL GAS SUPPLIER AND N.B.F.U.
6. DOMESTIC WATER PIPE AND FITTINGS INSIDE BUILDINGS SHALL BE TYPE L COPPER BELOW AND ABOVE GRADE, JOINTS SHALL BE 95/5 SOLDER.
7. 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.
8. ALL PLUMBING FIXTURES ARE THE 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.
9. ALL PLUMBING MATERIALS USED WILL COMPLY WITH THE LATEST PLUMBING CODE.
   A. ANY ABOVE-GROUND DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.1
   B. ANY UNDERGROUND SANITARY DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 702.2.
   C. ANY WATER SERVICE PIPE SHALL COMPLY WITH SECTION 605.3.
   D. ANY WATER DISTRIBUTION PIPE SHALL COMPLY WITH SECTION 605.4.
10. ALL PIPING ABOVE TOP PLATE, OR OUTSIDE THERMAL ENEVELOPE, SHALL BE INSULATED TO A MINIMUM OF R6.5 WITHOUT EXCEPTION. ALL PLUMBING LOCATED IN WALL SHALL BE ON WARM SIDE OF INSULATION.

2

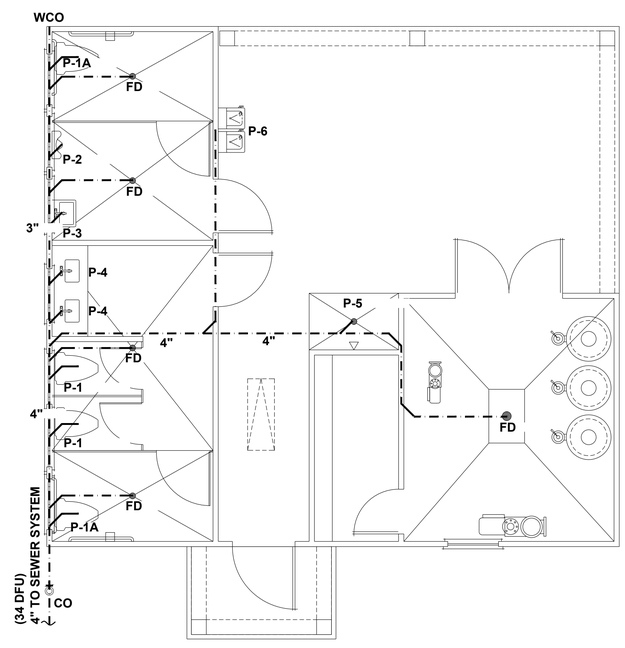
MATERIAL SPECIFICATIONS

1. PIPE INSULATION: DG TURBOLIT FOAM PIPE INSULATION
2. WASTE: SCHEDULE 40 PVC
3. VENT: SCHEDULE 40 PVC
4. DOMESTIC WATER: COPPER / PEX / CPVC



SUPPLY PLAN

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



WASTE PLAN

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051518 JONATHAN M. CROUCH 8/3/23

P-0961

JDS Consulting ENGINEERING • DESIGN • ENERGY

JDS Consulting, PLLC, 8400 ?? 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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR REVIEW AS PDF FILES. THE TITLE BLOCK ON THE FIRST PAGE OF EACH 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

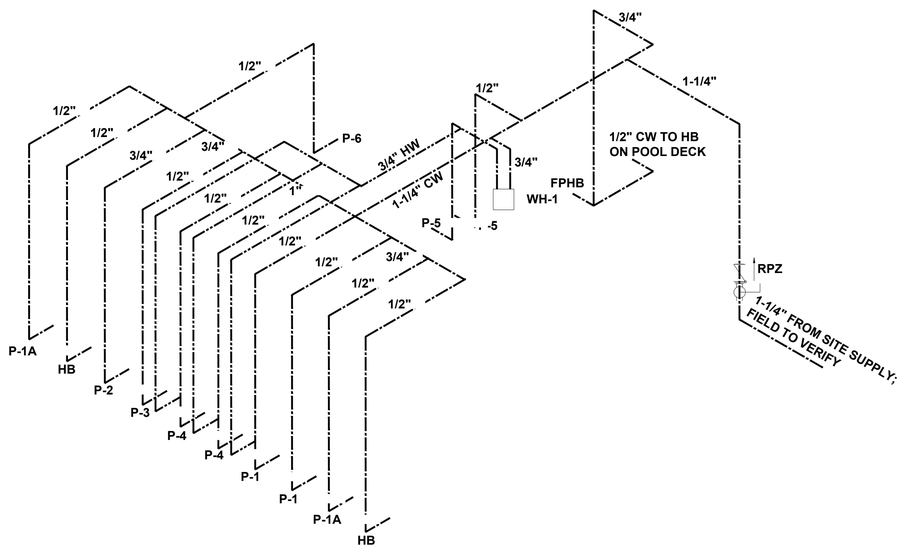
PROJECT NO.: 23900139

DATE: 05/02/2023

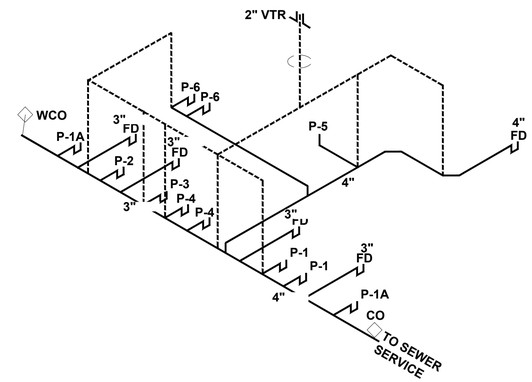
DRAWN BY: FAB

PLUMBING PLANS

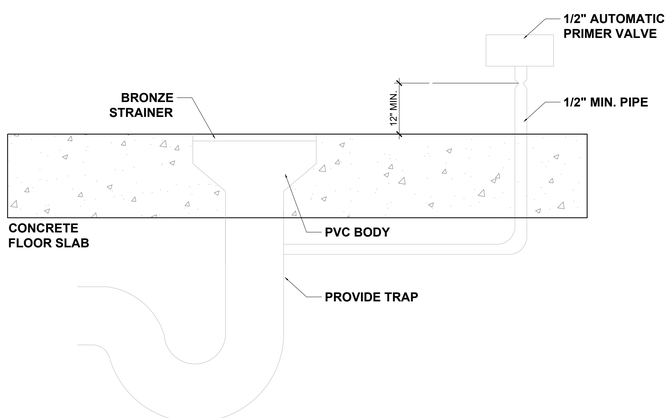
P1.0



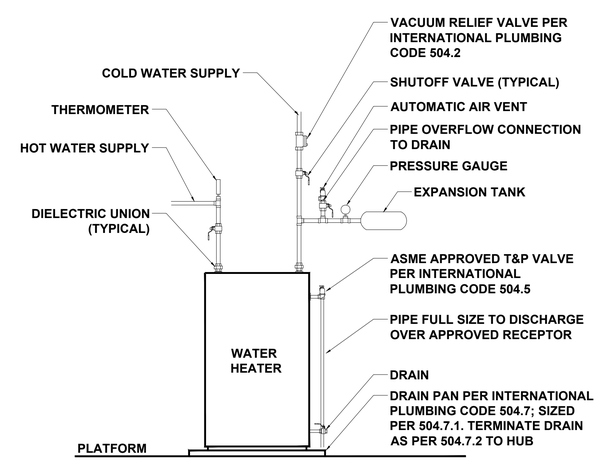
DOMESTIC WATER SUPPLY RISER



SS RISER



FLOOR DRAIN DETAIL



TYPICAL WATER TANK HEATER DETAIL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051518 JONATHAN M. CROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY

JDS Consulting, PLLC, 8400 D 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

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

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

PLUMBING NOTES AND DETAILS

P1.1

POOL PIPING NOTES

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

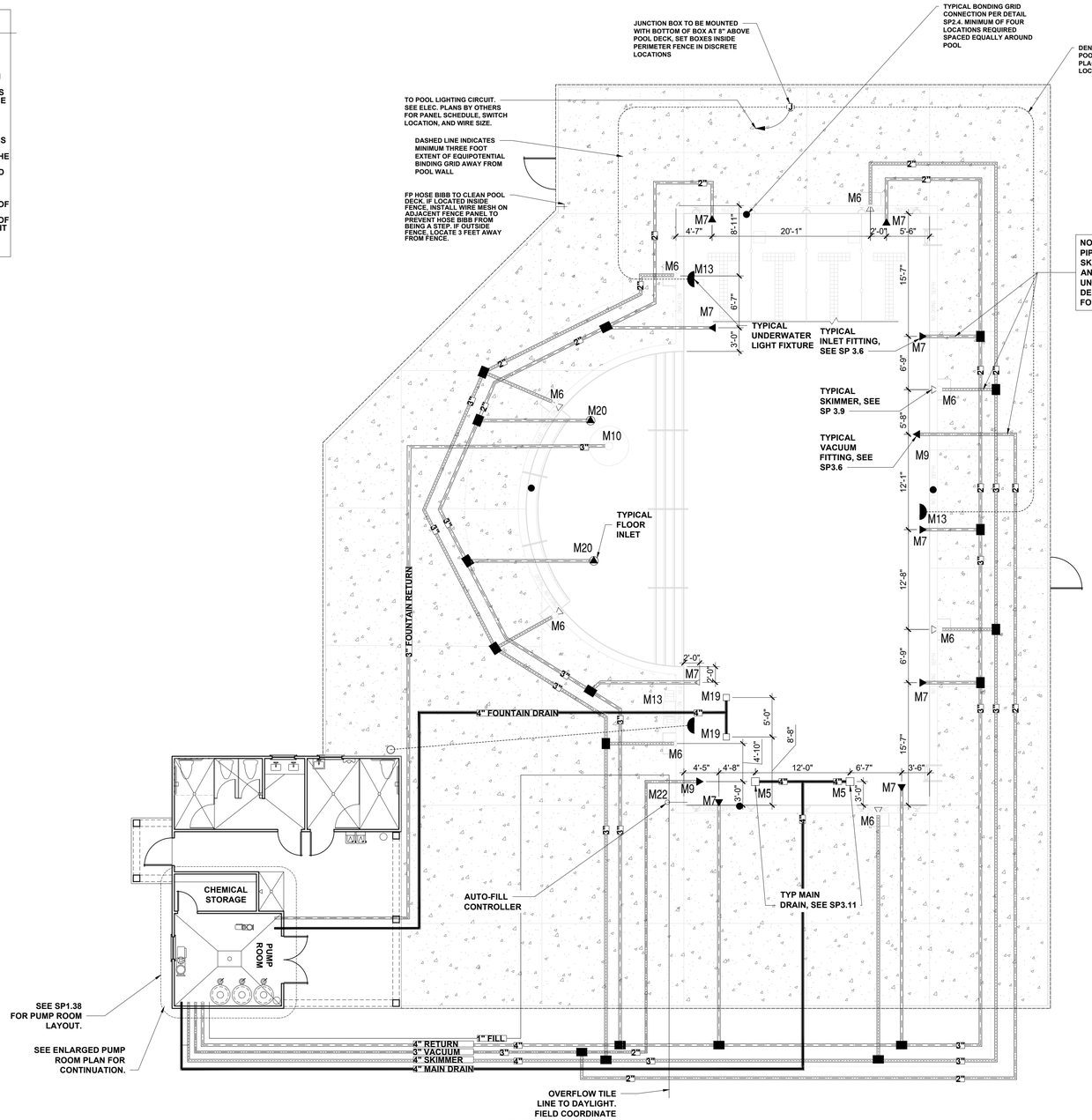
GENERAL NOTES - ELECTRICAL

1. SEE ELECTRICAL PLANS BY OTHERS FOR ALL ELECTRICAL DESIGN, INCLUDING ELECTRICAL SPECIFICATIONS, CIRCUITING, AND CONNECTION OF ELECTRICAL DEVICES SCHEDULED ON THE POOL PLANS.
2. 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.
3. BOND ALL NON CURRENT CARRYING METALLIC PARTS RELATING TO POOL. SEE THE BONDING DETAIL ON THIS SHEET.
4. AREA LIGHTING NOTE: AREA LIGHTING OF THE POOL DECK IS BY OTHERS.
   - 4.1. 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.
   - 4.2. NIGHT SWIMMING IS NOT ALLOWED UNTIL AREA LIGHTING IS PROVIDED.
   - 4.3. REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION OF THE MAIN DRAINS OF THE POOL.
   - 4.4. 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.
   - 4.5.

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



NOTE:
PIPE CONNECTIONS TO ALL SKIMMERS, VACUUM LINES AND INLETS TO BE 2" PIPE, UNLESS NOTED OTHERWISE. DESIGNATION NOT SHOWN FOR CLARITY OF DRAWING.

SP1 .1 **PIPING AND LIGHTING LAYOUT**

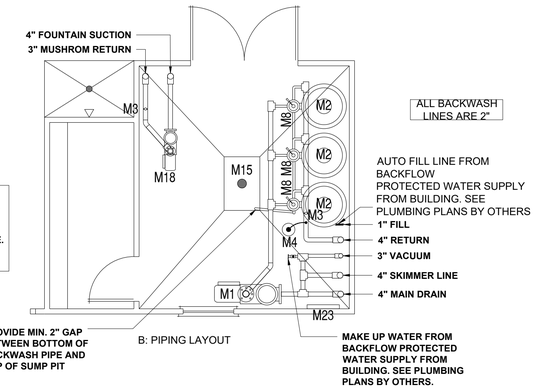
SCALE: 1/4" = 1'-0"

PIPE LEGEND
- INLET LINE
- SKIMMER LINE
- VACUUM LINE
- DRAIN LINE
- FILL LINE

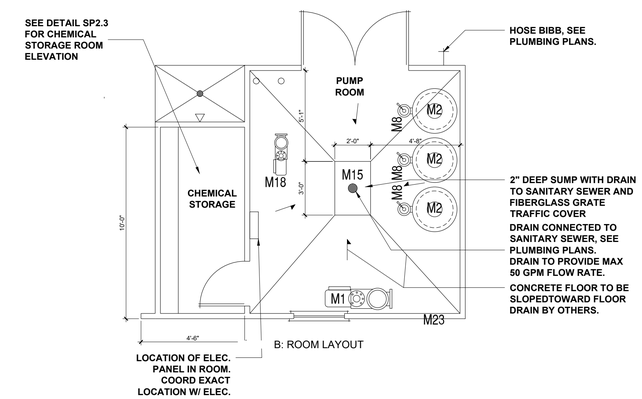
REQUIRED UNDERWATER LIGHTING FOR:

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



B: PIPING LAYOUT



B: ROOM LAYOUT

SP1 .2 **ENLARGED PUMP ROOM LAYOUT**

SCALE: N.T.S.

N

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
5/2/23

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TY 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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR REVIEW AND APPROVAL. SCALE IS AS INDICATED ON EACH 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: 05/02/2023

DRAWN BY: FAB

POOL PIPING LAYOUT

SP1.0

CHEMICAL STORAGE NOTES

CHEMICAL STORAGE REQUIREMENTS FOR THE POOL AS IS 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)
+21.09.40 SQ (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. F 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"0.2 EQUAL 53" OF EXIT REQUIRED, 3 EXITS REQ'D. MIN. OF 132" SHOWN ON PLAN.

REQ'D EXIT SEPARATION EQUALS ⅓ THE 133' DIAGONAL, OR 66'. 50' 5" SHOWN ON PLANS.

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 = 2968 / 15 = 198

BATHROUSE 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:	GUNITE
FINISH:	NON-SLIP 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: FILTER SIZE, PROV: FILTER SIZE, REQD: MEDIA CIRC. RATE: BACKWASH RATE: TURNOVER RATE:	HIGH RATE SAND (3) @4.91 SF, 14.73 SF TOTAL 13.57 SF TOTAL 15 GPM/SF 15 GPM/SF 6 HOURS.
BACKWASH TO:	SANITARY SEWER
FRESHWATER SOURCE:	IN-LINE, MANUAL FILL

PROVIDE SIGN STATING "WARNING NO LIFEGUARD 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

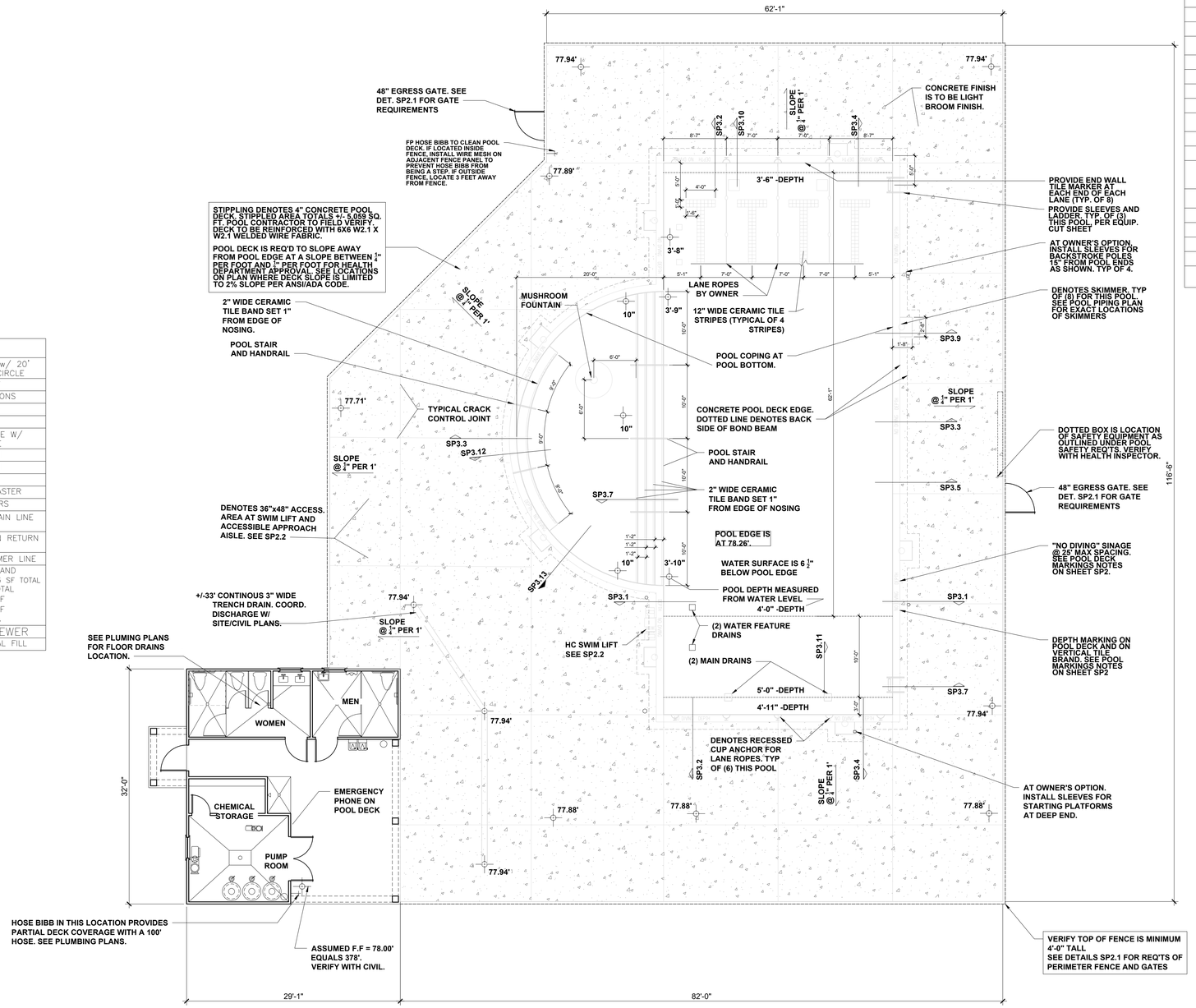
POOL DECK AREA IS 3,036 SF AND INCLUDES ONLY THE STIPPLED AREA ON THE PLAN.

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 JOINS TO BE LET INTO CONCRETE AT A DEPTH OF ¼"THE THICKNESS OF THE CONCRETE SLAB.



SP1.1 .1 **SWIMMING POOL LAYOUT**

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

MAIN POOL EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	PRODUCT
M1	5 HP, SELF-PRIMING PUMP W/ MATCHING STRAINER, 220 GPM @ 65F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER.	PENTAIR - WQ500
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 AND 1½" HYDROSTATIC RELIEF VALVE.	AQUASTAR 914xxx [SUMP P/N 9-4 SB]
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-LF24-3B-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	
M16	BACKSTROKE FLAG ANCHOR	SELECTED BY OWNER
M17	HANDICAPPED LIFT	SR SMITH MULTI-LIFT
M18	3HP FOUNTAIN PUMP w/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER	PENTAIR-WFE-12
M19	12"x12" FOUNTAIN SUMP AND COVER	ASA FPK 50-812-4 AQUASTAR WAVE12
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 EASYTOUCH8

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051518 JONATHAN M. CROUCH
Jonathan M. Crouch 5/4/23
P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TT JERSEY CT, RALEIGH, NC 27617 919.480.1075
DFW@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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR REVIEW AND APPROVAL. DO NOT SCALE DRAWINGS. USE ONLY THE LATEST 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: 05/02/2023
DRAWN BY: FAB

POOL LAYOUT

SP1.1

POOL DECK MARKINGS

DEPTH MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:
1. LOCATED ON TOP OF POOL DECK AND AT OR ABOVE THE WATER SURFACE ON THE VERTICAL WALL
2. SHALL BE IN ARABIC NUMERALS AT LEAST 4" HIGH
3. LETTER COLOR TO CONTRAST WITH BACKGROUND
4. MARKINGS IN POOL DECK SHALL PROVIDE A SLIP RESISTANT WALKING SURFACE.
5. NOT TO EXCEED 25'-0" IN SPACING ALONG THE PERIMETER OF THE POOL.

"NO DIVING" MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHEREING TO THE FOLLOWING:
1. NOT TO EXCEED 25'-0" IN SPACING.
2. DENOTED IN ONE OF THE FOLLOWING MANNERS:
   - 2.A. CONSISTING OF THE WORDS "NO DIVING" IN LETTERS AT LEAST 4" HIGH AND OF A COLOR CONTRASTING WITH THE BACKGROUND.
   - 2.B. AT LEAST A 6"x6" IN SIZE INTERNATIONAL SYMBOL FOR NO DIVING IN RED AND BLACK ON A WHITE BACKGROUND.
3. MARKINGS IN POOL DECK SHALL PROVIDE A SLIP RESISTANT WALKING SURFACE.

POOL SIGNAGE REQUIREMENTS

POOL SIGNAGE:

SIGN "A" - 4" TALL LETTERS

WARNING - NO LIFEGUARD ON DUTY

THIS SIGN IS TO BE POSTED IN THE MAIN POOL AREA.
A MIN. OF (1) THIS PROJECT

SIGN "B" - 1" TALL LETTERS

POOL SAFETY RULES
1. CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION.
2. ADULTS SHOULD NOT SWIM ALONE.
3. PETS ARE PROHIBITED IN THE POOL AREA.
4. GLASS CONTAINERS ARE PROHIBITED IN THE POOL AREA.
5. NO DIVING IS ALLOWED IN POOL AREA.

SIGN "C" - PROVIDE A SIGN VISIBLE UPON ENTERING THE POOL ENCLOSURE DIRECTING POOL USERS TO SHOWER BEFORE ENTERING THE POOL.

SIGN "D" - PROVIDE A SIGN STATING "POOL CLOSED" FOR EVERY POOL ENTRANCE. VERIFY WITH FINAL POOL ENCLOSURE DESIGN FOR FINAL NUMBER OF ENTRANCES.

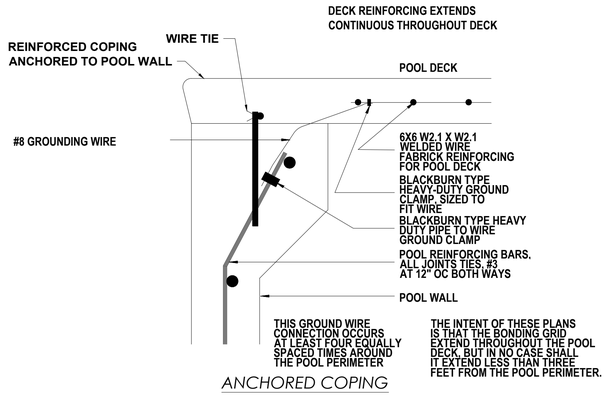
POOL SAFETY REQUIREMENTS

PROVIDE SAFETY PROVISIONS PER SECTION .2530. THE MINIMUM BEING:

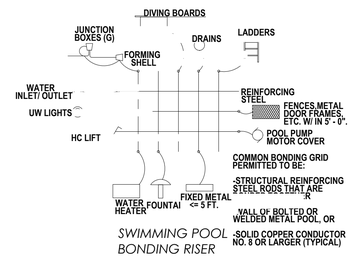
OUTDOOR POOL REQUIREMENTS:
- A. (2) 12' LONG, MIN., METAL POLE AND BODY HOOK SECURELY ATTACHED. THE POLE SHALL BE NON-TELESCOPING, NON-ADJUSTABLE & NON-COLLAPSIBLE.
- B. (2) U.S. COAST GUARD APPROVED RING BUOYS WITH 50'-0" OF ¼" DIAMETER THROWING ROPE.

EMERGENCY TELEPHONE SERVICE:
- A. TELEPHONE CAPABLE OF DIRECTLY DIALING 911 OR OTHER EMERGENCY NOTIFICATION SYSTEM SHALL BE PROVIDED.
- B. THE TELEPHONE SHALL BE PERMANENTLY AFFIXED TO A LOCATION INSIDE THE POOL ENCLOSURE OR OUTSIDE THE ENCLOSURE WITHIN 75' OF THE BATHER ENTRANCE.
- C. THE TELEPHONE SHALL BE VISIBLE FROM WITH THE POOL ENCLOSURE OR A VISIBLE SIGN SHALL BE POSTED INDICATING THE LOCATION OF THE EMERGENCY PHONE.
- D. AT THE TELEPHONE - PROVIDE A SIGN WITH LEGIBLE LETTERS PROVIDING THE FOLLOWING INFORMATION.
  - D.A. DIALING INSTRUCTIONS
  - D.B. ADDRESS OF THE POOL LOCATION
  - D.C. TELEPHONE NUMBER OF THE POOL LOCATION.

SEE POOL HOUSE PLANS BY OTHERS FOR EXACT LOCATION OF THE TELEPHONE SERVICE.



ANCHORED COPING



SWIMMING POOL BONDING RISER

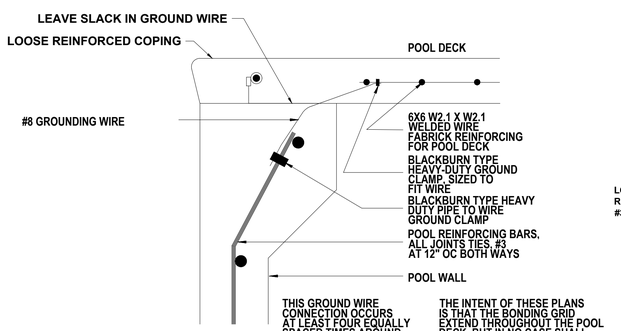
SP2 .5

SWIMMING POOL BONDING RISER

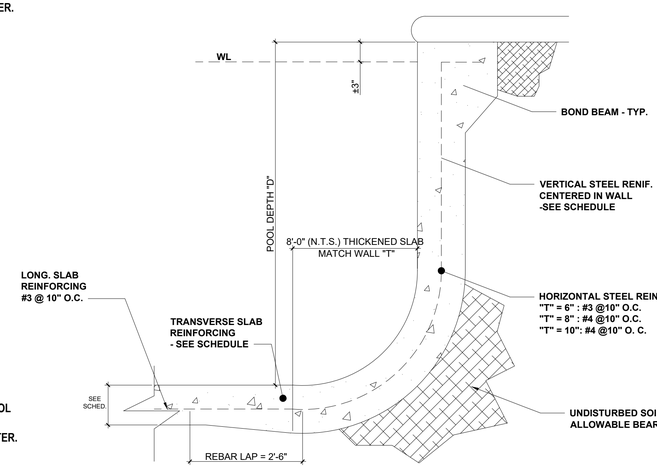
NOT TO SCALE

POOL REINFORCING SCHEDULE

DEPTH D"	≤ 4'-0"	≤ 6'-0"	≤ 7'-6"	≤ 9'-0"	≤ 10'-0"
THICKNESS "T"	6"	8"	10"	10"	10"
VERTICAL STEEL	#3 @ 10" O.C.	#4 @ 10" O.C.	#5 @ 10" O.C.	#6 @ 10" O.C.	#7 @ 10" O.C.
SLAB	6" #3 @ 10" O.C.	6" #3 @ 10" O.C.	6" #4 @ 10" O.C.	6" #4 @ 10" O.C.	8" #4 @ 10" O.C.



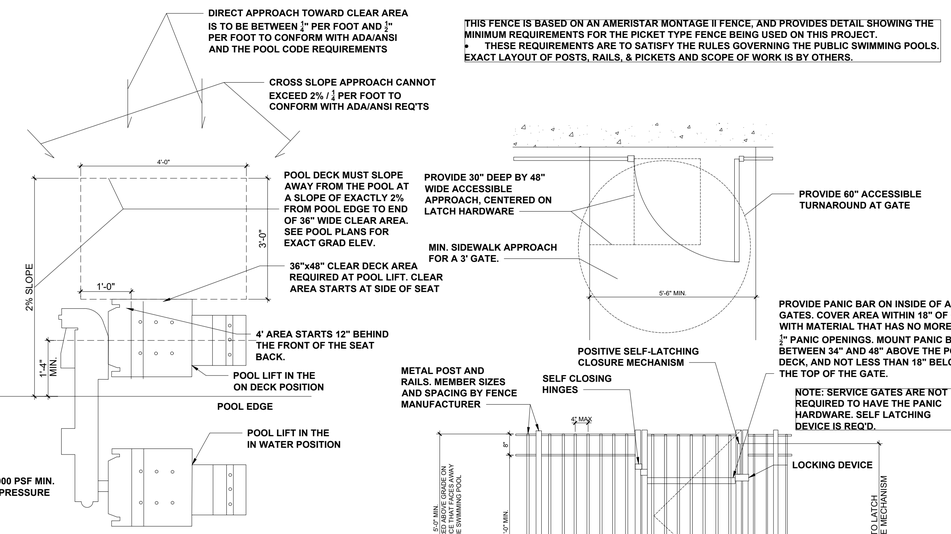
LOOSE COPING



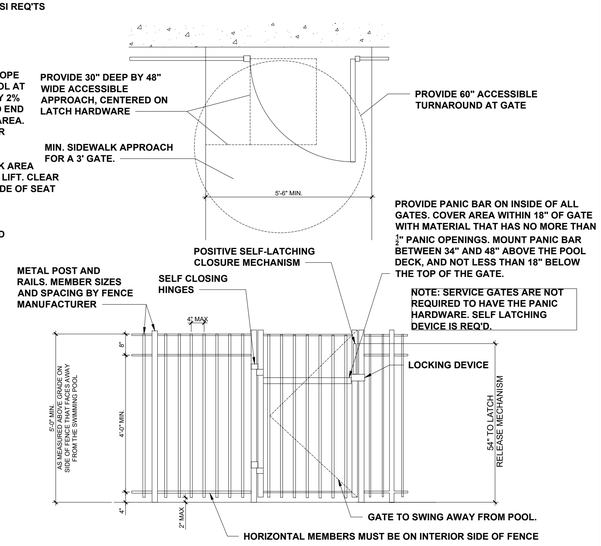
SP2 .4

STRUCTURAL POOL SECTION

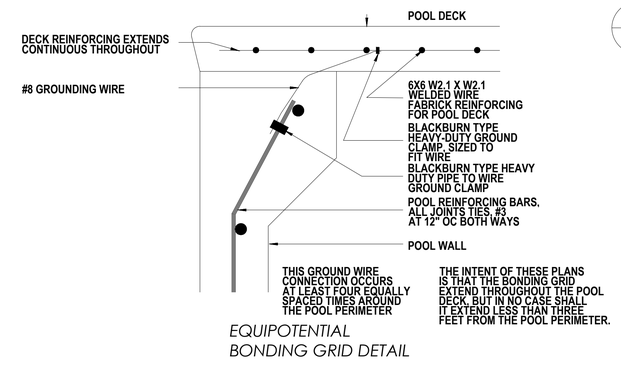
TYPICAL — NOT TO SCALE



THIS FENCE IS BASED ON AN AMERISTAR MONTAGE II FENCE, AND PROVIDES DETAIL SHOWING THE MINIMUM REQUIREMENTS FOR THE PICKET TYPE FENCE BEING USED ON THIS PROJECT.
- THESE REQUIREMENTS ARE TO SATISFY THE RULES GOVERNING THE PUBLIC SWIMMING POOLS. EXACT LAYOUT OF POSTS, RAILS, & PICKETS AND SCOPE OF WORK IS BY OTHERS.



LOCKING DEVICE REQUIREMENTS:
- IF THE HEIGHT TO THE RELEASE MECHANISM OF THE SELF-LATCHING DEVICE IS LESS THAN 54" FROM THE BOTTOM OF THE GATE, THEN THE RELEASE MECHANISM SHALL REQUIRE THE USE OF A KEY, COMBINATION, OR CARD READER TO OPEN THE GATE.
- AN ALTERNATE LOCATION FOR THE RELEASE MECHANISM IS ON THE POOL SIDE OF THE GATE AT LEAST 3" BELOW THE TOP OF THE GATE, AND THE GATE AND FENCE SHALL HAVE NO OPENINGS GREATER THAN .5" WITHIN 18" OF THE RELEASE MECHANISM.

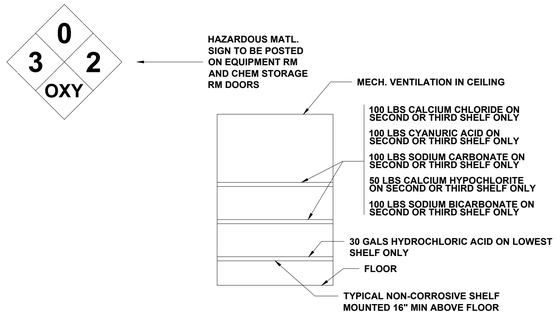


EQUIPOTENTIAL BONDING GRID DETAIL

SP2 .6

EQUIPOTENTIAL BONDING GRID DETAIL

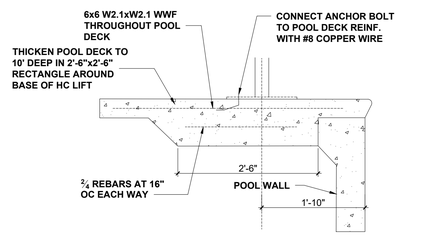
NOT TO SCALE



SP2 .3

CHEMICAL STORAGE ROOM ELEVATION

SCALE: NTS



SP2 .2

SWIM LIFT INST. DETAIL

SCALE: NTS

SP2 .1

GATE AND FENCE DETAIL

SCALE: NTS

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
5/2/23

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TT 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

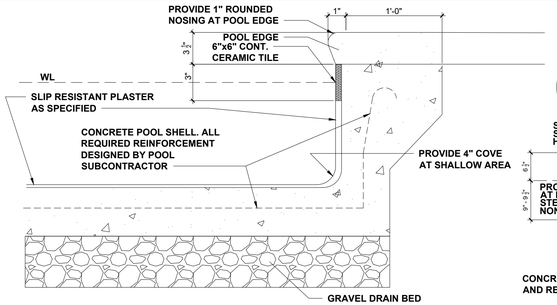
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: 23900139

DATE: 05/02/2023 | DRAWN BY: FAB

SECTIONS & DETAILS

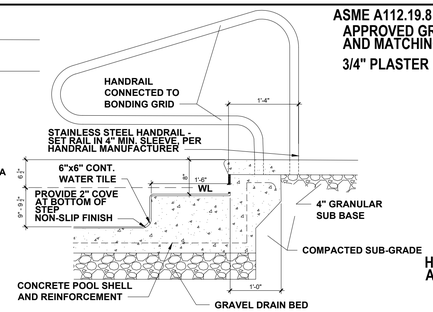
SP.2



SP3 .13

WALL SECTION

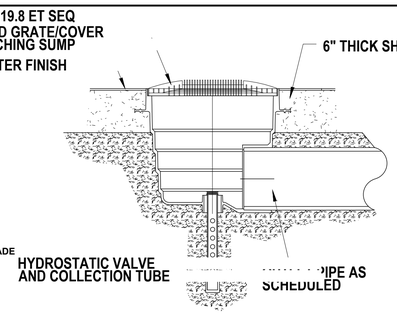
SHALLOW WATER SCALE: NTS



SP3 .12

SHALLOW POOL WALL SECTION

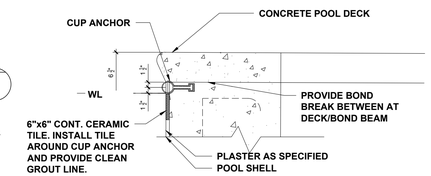
SCALE: NTS



SP3 .11

MAIN DRAIN DETAIL

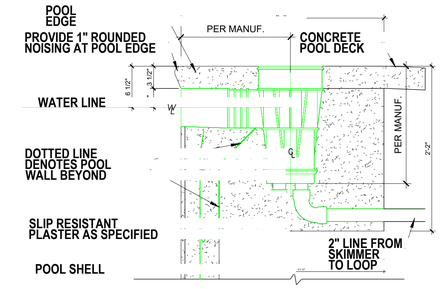
SCALE: NTS



SP3 .10

CUP ANCHOR DETAIL

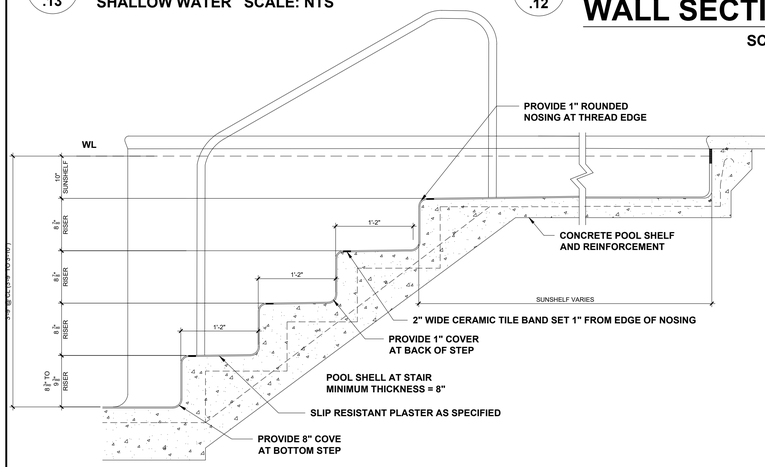
SCALE: NTS



SP3 .9

DETAIL - POOL SKIMMER

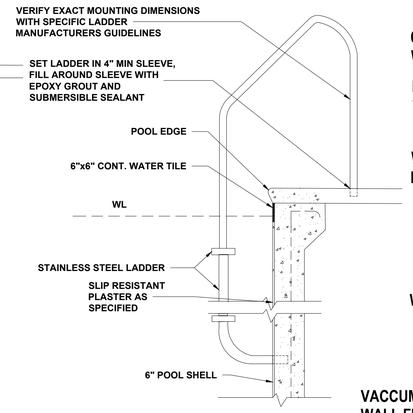
SCALE: NTS



SP3 .8

POOL STAIR DETAIL

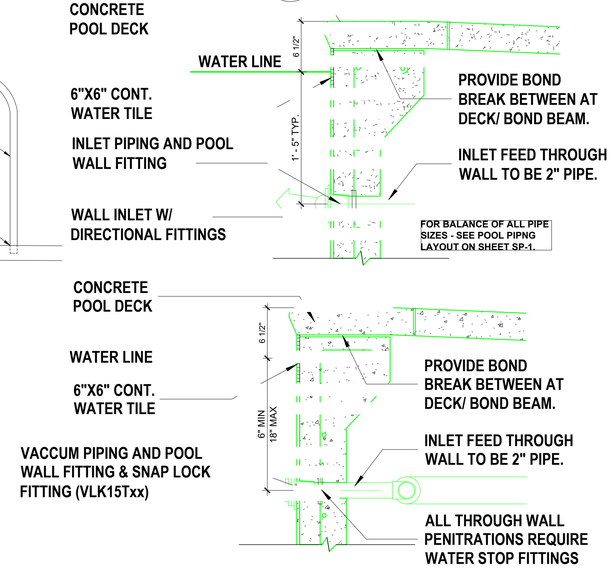
SCALE: NTS



SP3 .7

LADDER DETAIL

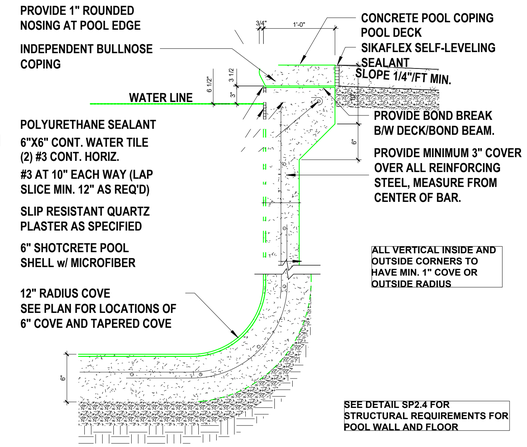
SCALE: NTS



SP3 .6

PIPING DETAIL

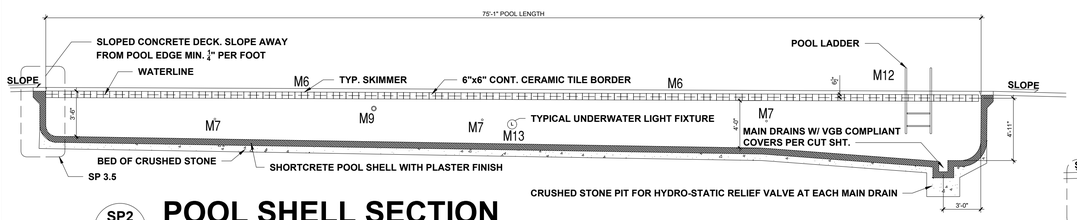
SCALE: NTS



SP3 .5

TYP. POOL WALL SECTION

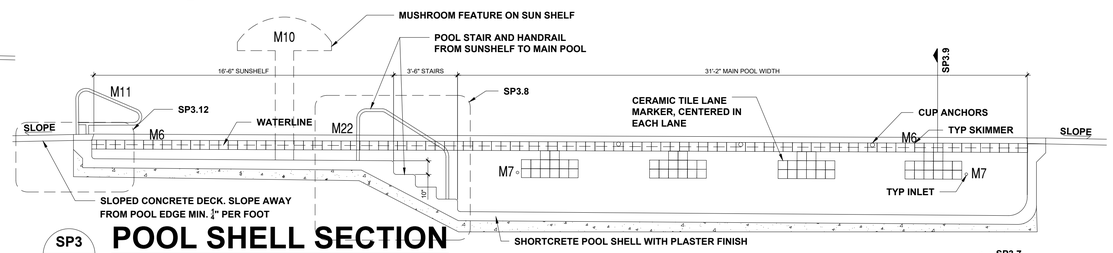
SCALE: NTS



SP2 .4

POOL SHELL SECTION

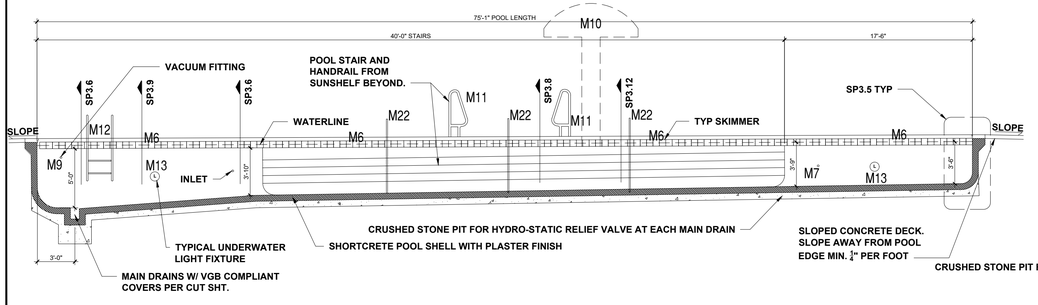
SCALE: NTS



SP3 .3

POOL SHELL SECTION

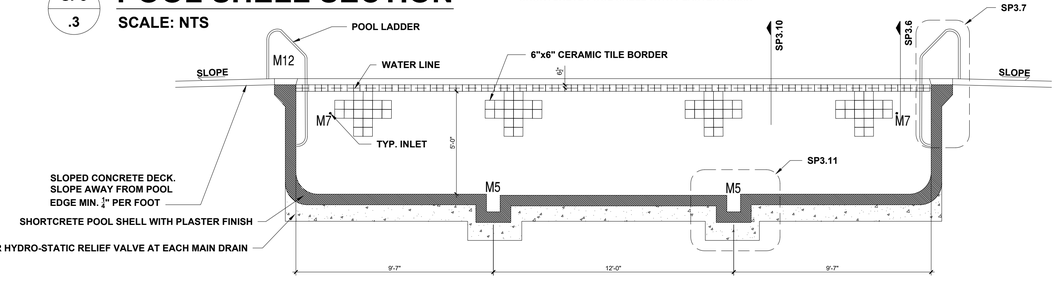
SCALE: NTS



SP3 .2

POOL SHELL SECTION

SCALE: NTS



SP3 .1

POOL SHELL SECTION

SCALE: NTS

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
Jonathan M Crouch 5/2/23
P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8400 TY 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

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

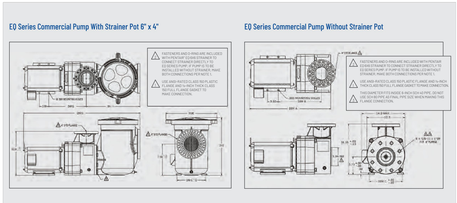
PROJECT NO.: 23900139

DATE: 05/02/2023 | DRAWN BY: FAB

SECTIONS & DETAILS

SP.3

M1



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

Part # ODP Motor	Part # TEFC Motor	Description	Voltage	Amps	Phase	HP	Wt	Dim. A-ODP	Dim. A-TEFC	Dim. B	Dim. C	Dim. D-ODP	Dim. D-TEFC
340026		EQW 300 WaterFall	208/230	38/19	1	3	126	26.62	N/A	10.03	7.5	43.590	N/A
340027		EQWK 300 WaterFall	208 - 230/460	8.4 - 7.9/3.9	3	3	106	23.12	N/A	10.16	7.5	40.094	N/A
340028		EQW 500 WaterFall	230	23.4	1	5	126	26.62	N/A	13.18	9.7	43.590	N/A
340029		EQWK 500 WaterFall	208 - 230/460	13.6 - 12.7/6.4	3	5	106	23.12	24.68	13.31	9.7	40.094	41.65
340030		EQ500	230	19.6	1	5	126	26.62	N/A	10.03	7.5	43.590	N/A
340031	340604	EQK500	208 - 230/460	13.5 - 12.3/6.2	3	5	106	23.12	24.68	10.16	7.5	40.094	41.65
340032		EQ750	230	30.4	1	7.5	161	27.53	N/A	10.78	8.5	44.580	N/A
340033	340605	EQK750	208 - 230/460	20.1 - 18.3/9.1	3	7.5	116	24.50	28.08	10.16	7.5	41.560	45.12
340034	340606	EQK1000	208 - 230/460	27.1 - 24.3/12.2	3	10	146	26.31	29.81	10.78	8.5	43.290	46.79
340035	340607	EQK1500	208 - 230/460	40.0 - 36.0/17.8	3	15	161	26.31	28.31	10.78	8.5	43.290	45.29
340238		EQ1000	230	40.0	1	10	179	29.0	N/A	11.50	8.5	48.29	N/A

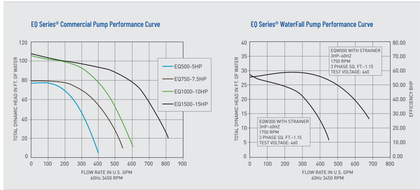
340013 Strainer Pot Assembly, Including Strainer, Lid, Basket and Hardware

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

Part # ODP Motor	Part # TEFC Motor	Description	Voltage	Amps	Phase	HP	Wt
340014		EQW 300 WaterFall	115/230	38/19	1	3	97
340016		EQWK 300 WaterFall	208 - 230/460	8.4 - 7.9/3.9	3	3	77
340017		EQW 500 WaterFall	230	23.4	1	5	97
340018		EQWK 500 WaterFall	208 - 230/460	13.6 - 12.7/6.4	3	5	77
340019		EQ500	230	19.6	1	5	97
340020	340608	EQK500	208 - 230/460	13.5 - 12.3/6.2	3	5	77
340021		EQ750	230	30.4	1	7.5	132
340022	340609	EQK750	208 - 230/460	20.1 - 18.3/9.1	3	7.5	97
340237		EQ1000	230	40.0	1	10	125
340023	340610	EQK1000	208 - 230/460	27.1 - 24.3/12.2	3	10	117
340024	340611	EQK1500	208 - 230/460	40.0 - 36.0/17.8	3	15	132

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

M5, M19



MATERIALS AND DESIGN

PUMP BODY

Volute type, back pull-out design.

- Port Size
  - 6-inch, ANSI-rated 125 bolted flange suction port.[1]
  - 4-inch, ANSI-rated 125 bolted flange discharge port.[1]
- 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 JM type. Premium efficient ODP class F insulated. On TEFC options, JMZ type. premium efficient, class F insulated.

- Frame and Size
  - NEMA-rated "C" flange.
- 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 JMZ 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.

ELECTRICAL

- Power Supply Required
  - Three-phase pumps are 208-230/460. Single-phase models are available in ODP 230V, 60 Hz only.

[1]Use ANSI-rated class 125 plastic flange and ⅛-inch thick class 125 full flange gasket to make connection.

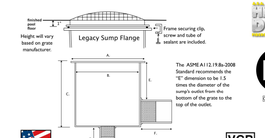
A.S.A. MFG. INC.

www.asamfg.com
email: 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" f.p.t. x f.p.t. fitting for hydro relief valve and pebble pipe
- "Quick Mount" hardware and sealant included
- Custom configurations fabricated -- Call us today!
- Optional waterstop flange



Made in the USA

VGB 2008

HEAVY DUTY

NSF COMPONENT

Legacy Flange Design

Frame & Grates Sold Separately

Fiberglass LEGACY SUMP Dimensions

Sump Sizes & Part #'s	Dimensions (in inches) * A	B	C	D	E	F	Outlet Size f.p.t. x size	Compatible Grates **	NOTES
9" x 9"									
FPK-50-809	10.5	8.5	12	4.5	6.5	3	3"	List A	1
12" x 12"									
FPK-50-812-4	14	12.5	12	4.5	6.5	3.5	4"	List B	1
FPK-50-812-18-6	14	12	18	4.5	10	5.5	6"	List B	1
18" x 18"									
FPK-50-818-6	20.5	18	20	4.5	10	5.5	6"	List C	1
FPK-50-818-24-8	20.5	18	24	4.5	13.5	6.5	8"	List C	1
24" x 24"									
FPK-50-824-10	27	24	30	4.5	17	11.5	10" * sxs x sxs	List D	1, 2

NOTES:
* See Sump Drawing above for A,B,C,D,E,F measurements
** See Compatible Grates for below:
1. ASME A112.19.8a-2008 dimensionally compliant (as an alternative to a field built sump / 2.3.4 Fig 2)
2. Sumps with 10" outlets are sxs x sxs

VGB Compatible Grates *

Grass Sizes Part #'s	List	Open Area (+0.0,-0.5)**	Flow Rate** @1-1/8 in sec	NOTES
9" x 9" A				
CPP 2008-09		38.9	120 gpm	
640-479XV		39.9	186 gpm	
PLD-F620-0909		42.1	248 gpm	
914101		84	394 gpm	1
12" x 12" B				
WG1020HF		41.07	232 gpm	
640-472D		62.4	292 gpm	
CPP 2008-120		70.8	330 gpm	
PLD-F620-1212		81.3	340 gpm	
121410		101	474 gpm	2
18" x 18" C				
WG1030HF		92.7	434 gpm	
SUN1809H101		104.4	490 gpm	
CPP 2008-180		155.6	610 gpm	
640-477DV		159.6	744 gpm	
PLD-F620-1818		183	712 gpm	
24" x 24" D				
640-476DV		249.6	1148 gpm	
WM1241D1		340	1444 gpm	3
FLAT2401D		352	1531 gpm	3

NOTES
* Compatible or time of publication and subject to change
1. Grass size is 9"x9" or 9"x12" or specification at time of publication
2. Grass size is 12"x12" 12"x18"
3. Grass size is 18"x18" / 12" x12"
4. Stainless Steel Frame may require grounding

Fabricating Fiberglass Construction Solutions for the Aquatics Industry

011112

M6

WHITE GOODS & VALVES - SKIMMERS

PENTAIR

U-3 SKIMMERS

SWIMQUIP® INGROUND SKIMMERS

Featured Highlights

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

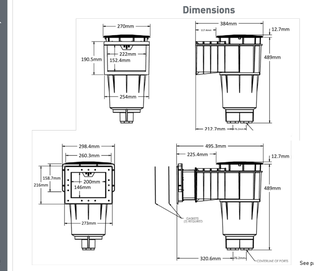
1 YEAR LIMITED WARRANTY

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 (mm)	Pallet Qty.	Carton Wt. (kg)
SKIMMERS FOR CONCRETE POOLS				
08650-1404	U-3 Skimmer White w/White Lid & Frame, 2 in. Slip with 1-1/2 in. Slip Reducers; Incl. Float and Check Valve, Basket	390x260x495	26	4
SKIMMERS FOR VINYL POOLS				
09655-1404	Vinyl Skimmer – White; 2 in. Slip with 1-1/2 in. Slip Reducers	390x260x495	26	4

Dimensions



*All dimensions in mm.

See page 182 for replacement parts.

M2

Model Number	Filter Area Sq Ft	Vertical Clearance	Filter Diameter	Required Sand* (kg)	Flow Rate LPM Rec.	Cont.	Turnover Capacity Min. (Litres) 8Hrs.	10hrs.	12Hrs.
TR 40	0.178	826mm	483mm	80	144	144	69,045	86,307	103,568
TR 50	0.228	934mm	533mm	103	186	186	89,022	111,291	133,549
TR 60	0.291	953mm	609mm	148	239	239	114,470	143,088	171,706
TR 100	0.456	1061mm	762mm	273	371	281	178,065	222,582	267,098
TR 140	0.655	1200mm	914mm	400	534	402	256,196	320,245	384,295

*Use standard 16/30 silica sand.
**Pressure Rise Less than 1 lb/in² for closure.
***Maximum flow rate. Flow rate is based on 30' fp per square. of filter area. Actual system flow will depend on plumbing size and other system components.

The best reputation in the industry for all the right reasons

Besides its superior filtration performance,Triton® II delivers a level of dependability and ease of operation and maintenance for a track record that's unsurpassed. Every design detail has been refined to make Triton II the industry standard. Additional features include :

- Combination sand and water drain speeds servicing and winterizing.
- All internal parts are threaded for ease of maintenance.
- Swing-away water diffuser allows instant access to sand and all internal parts.
- Ten-year limited warranty.See warranty for details.

PENTAIR

AVAILABLE FROM:

Head Office:
Pentair AquaC
1-21 Monash Drive,
Dandenong South, Vic 3175
Australia:
National Customer Service: Phone: 1300 137 344
Fax: 1800 238 888
National Dealer Location: Phone: 1800 994 290
Email: australia@pentair.com
Web: www.pentair.com.au
New Zealand:
National Customer Service: Phone: 0800 654 112
Fax: 0800 654 110
National Dealer Location: Phone: 0800 994 290
Email: nz.sales@pentair.com
Web: www.pentair.co.nz
International Australia/New Zealand:
Phone: +61 3 9730 5900
Fax: +61 3 9730 5988

LIT0700 R1012

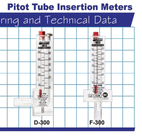
pumps / filters / heaters / heat pumps / automation / lighting / cleaners / sanitizers / water features / maintenance products

M3

Blue-White® Industries, Ltd.

Pitot Tube Insertion Meters
Engineering and Technical Data

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



Features:

- 1" through 8" pipe sizes.
- Flow rates from 4 to 1900 GPM.
- Resistant PVDF internal float materials.
- One piece machined acrylic body.
- Mounts to existing pipe. No unions or adapters required.
- Models for mounting on horizontal or vertical pipe.
- Mounting clamps and gasket included.
- NSF Listed

Specifications:

Pipe Requirements	IPS inch pipe size (ASTM-D-1785)
Max PSI (bar)	75 PSI (5.2 bar) at 70°F (21°C)
Fluid Temp Range	0° to 190°F / -18 to 88°C @ 0 PSI
Ambient Temp Range	0° TO 110°F / -18 TO 43°C
Note: Temperature and Pressure ratings for meter only. Actual pipe rating may vary.	
Accuracy	1", 1.25", 1.5" and 2" pipe size: 5% of rate 2.5", 3", 4", 6", and 8" pipe size: 10% of rate
Power Requirement	No Power Required
Enclosure	NEMA 4X (IP66)
Approximate Ship Wt.	1" - 4" units: 1lb. (.45kg) 6" - 8" units: 2lb. (.91kg)

Materials of Construction:

Meter Body	Cast Acrylic	Gasket	Neoprene
Float	PVDF	Pipe Clamp	316 Series Stainless Steel

Installation Requirements:

Minimum Straight Pipe Length Requirements

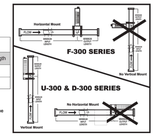
The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe as far as possible from any disturbances.

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 6")	12 inch (2" x 6")

Mounting location

- The meter is designed to withstand outdoor conditions.
- F series meters must be mounted at the vertical (twelve o'clock) position on horizontal pipe only.
- U & D series meters must be mounted on vertical pipe only.
- The pipe must be completely full of water at all times.
- See the minimum straight length of pipe requirement chart above.
- The meter can accurately measure flow from one direction only.
- U-series meters measure upward flows only.
- D-series meters measure downward flows only.



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

THE PERFORMANCE LEADER IN AUTOMATIC SANITIZATION FOR LARGE RESIDENTIAL AND COMMERCIAL POOLS

The INLET control valve side of the feeder connects to the plumbing on the discharge side of the pump, before the filter. The OUTLET side of the feeder connects to the pool return line after the filter and/or heater, pool cleaner, diverter valves, or any other installed equipment. Installation of a corrosion-resistant check valve such as #R172288 by Pentair between the feeder inlet and outlet and the equipment is strongly recommended to check backflow of chemicals. This helps ensure equipment longevity.

MODELS & SPECIFICATIONS

Model	HC-3315	HC-3330	HC-3340
Part Number	R172115	R172230	R172340
Height	21.5"	29.125"	49.75"
Width	8"	8"	8"
Depth	15"	15"	15"
Maintenance Clearance	22.75"	40.375"	51"
Capacity lbs.1	15	30	40
@ 100% Setting: Flow rate (GPM)	34	34	11.5
@ 100% Setting: Maximum Output Rate, Chlorine² (lbs./hr.)-Pool at listed flowrate	2.8	4.4	3.0
@ 100% Setting: Maximum Output Rate, Chlorine² (lbs./hr.)-Spa at listed flowrate	4.8	7.9	5.7
@ 100% Setting: Maximum Output Rate, Bromine² (lbs./hr.)-Pool at listed flowrate	1.3	2.7	1.7
@ 100% Setting: Flow rate (GPM)	17.8	17.8	9.2
@ 100% Setting: Output Rate, Chlorine² (lbs./hr.)-Pool at listed flowrate	2.1	3.4	2.4
@ 100% Setting: Output Rate, Chlorine² (lbs./hr.)-Spa at listed flowrate	1.8	3.0	5.4
@ 100% Setting: Output Rate, Bromine (lbs./hr.)-at listed flowrate	1.0	2.0	1.5
Maximum Pool Size @ 36 GPM (Chlorine-Gals)	224,000	369,000	658,500
Maximum Pool Size @ 36 GPM (Bromine-Gals)	99,200	164,000	292,600

Maximum working pressure – 90 psi
* Results based on use of 1" Trichlor tablets

AVAILABLE FROM:

PENTAIR

M7

AQUASTAR pool products

A Safe Drain is No Accident

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

VGB Series
Product Specification Sheet

The AquaStar line of suction outlet covers, compliant with the new Virginia Graeme-Baker Pool and Spa Safety Act (ASME/ANSI A112.19.8a-2008)

Features

For single or multiple drain use (see installation instructions)

Requires a minimum 3" sump depth

Single
Flow: 36.1 GPM at 1.3 fps
Wall: 36.1 GPM at 1.3 fps

FL-2 square inch opening

Trademarked VGB compliance button easily identifies VGB 2008 compliant cover from on deck and underwater

#316 stainless steel screws

Manufactured from superior UV-resistant engineered polymers

Easily and safely retrofits most brands' existing 12" frames* (see chart on pages 164-166 and installation instructions for details and special requirements)

All components (cover, frame, screws) meet or exceed ASME/ANSI A112.19.8a-2008 national standards and ASTM G154 UV testing exposure

12 per case

Specially designed and engineered for ALL 1.0 and 1.5 fps states – great for gravity drain systems as well as direct suction.

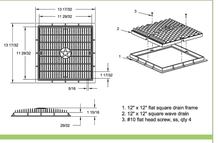
Part # WAV12xxx

*This AquaStar (p/n 12xxx, pre-VGB "Star"), Pentair (R) setting with ¼" deep existing frames and four screw hole pattern

Part Numbers / Colors

- WAV12101 White
- WAV12102 Black
- WAV12103 L. Gray
- WAV12104 Blue
- WAV12105 Dk. Gray
- WAV12106 Bone
- WAV12107 Taupe
- WAV12108 Tan

Frame included
VGB 2008 Compliant



1. 12" x 12" flat square drain frame
2. 12" x 12" square wave drain
3. #10 flat head screw, ss, qty 4

P 877-768-3717 F 877-376-POOL Outside the US: P +1-949-459-1202 F +1-949-336-1940
info@aquastarpoolproducts.com www.aquastarpoolproducts.com

M19

VGBA-2017 PRODUCT SPECIFICATIONS

Suction Outlet Fitting Assembly (SOFA)
VGBA-2017 Flow Ratings, Sump Dimensions, Sump Flow Path Zone, and Head Loss Curves

NSF LISTED
COMPONENT
NSF/ANSI/CAN 50
POOL EQUIPMENT

DIRECTIONS: Please follow the SOFA specific flow rates, sump specifications, and flow path zone information below. The installation must conform to these minimum/maximum requirements including the SOFA dimension defined in Figure 1. Find the SOFA model that matches your application. Select the appropriate flow rate based on your pool size. It may be dependent than Figure 1. Please write the Cover Model Number, connection, and SOFA Model Flow Rating on the VGBA DRAIN COVER IDENTIFICATION INFORMATION label that comes with each AquaStar Pool Products, Inc. drain cover.

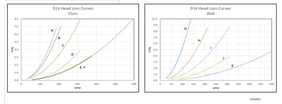
Cover Model Number: 91 Extra

FIGURE 1 – SOFA MODEL & FLOW PATH

For approximate flow rate based on pool size see VGBA-2017 ENGINEERING INFORMATION & INSTALLATION INSTRUCTIONS

SOFA Model No.	Pipe Size Nominal	Pipe Depth Nominal	Orientation Wall / Floor	Flow Rating GPM	Head Loss Curve
914-JF-A-2a_B1-E_C0-4_D0-5_E2-4_F16	2" (sx)	1.8"	Floor (F)	150	A
914-JF-A-2b_B1_C1-4_D1-5_E2-4_F16	2" (sx)	3"	Floor (F)	170	B
914-JF-A2-3b_B0_C1-6_D1-5_E2-4_F16	2.5" (fp)	3"	Floor (F)	250	C
914-JF-A-3b_B0_C1-6_D1-5_E2-5_F16	3" (fp)	3"	Floor (F)	250	D
914-JF-A-4a_B0-5_C1-6_D0-5_E1-7_F16 (Sump P/N 9-358)	4" (sx)	5.8"	Floor (F)	300	E
914-JF-A-4b_B0-5_C1-6_D0-5_E1-7_F16 (Sump P/N 9-458)	4" (sx)	9.8"	Floor (F)	560	F
914-JW_A-1-3b_B0_C1-6_D0_5_E1-6_F16	1.5" (fp)	3"	Wall (w)	125	G
914-JW_A-2b_B0_C1-6_D1_5_E2-6_F16	2" (fp)	3"	Wall (w)	175	H
914-JW_A-2-3b_B0_C1-6_D0_5_E2-6_F16	2.5" (fp)	3"	Wall(w)	250	I
914-JW_A-3b_B0_C1-6_D1_5_E2-6_F16	3" (fp)	3"	Wall (w)	250	J
914-JW_A-4b_B9-5_C1-5_D0_5_E1-5_F16 (Sump P/N 9-458)	4" (fp)	9.8"	Wall (w)	430	K

Note 1: "SOFA Model No" nomenclature: bottom pipe = (fp), side pipe = (sx). See Fig 1 for capital letters in through E.
Note 2: Head loss only is measured 16 to 24 inches from the finish surface of the pool. Reference Fig 1 dimension F.



WALL FITTINGS - INLETS

Directional eyeball inlets with 1-1/2 in. MIP thread to fit standard female adapter or wall fitting

Insider directional inlet wall fittings with 1/2, 3/4, 1 in. and slotted openings

Economy Insider 542000

CALIFORNIA PROPOSITION 65 WARNING
⚠ WARNING: Cancer and Reproductive Harm.
⚠ ADVERTENCIA: Peut Causer le Cancer et Des Troubles de la Reproduction.
⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

Ordering Information

Product	Description	Carton Qty.
1-1/2 INCH THREADED DIRECTIONAL EYEBALLS		
542087	Ultimate eyeball 1-1/2 in. threaded with snap-in disks, 1/2 in., 3/4 in., 1 in., and pressure test orifices, white	50
540008	Slotted opening, white	50
540001	Slotted opening, black	50
540002	Slotted opening, dark gray	50
540007	3/8 in. opening, white	50
540008	3/8 in. opening, black	50
540009	3/8 in. opening, dark gray	50
540014	1/2 in. opening, white	50
540015	1/2 in. opening, black	50
540016	1/2 in. opening, dark gray	50
540021	3/4 in. opening, white	50
540022	3/4 in. opening, black	50
540023	3/4 in. opening, dark gray	50
540028	1 in. opening, white	50
540029	1 in. opening, black	50
540030	1 in. opening, dark gray	50
ECONOMY INSIDER		
542000	1 in. slip inlet with snap-in 3/8 in., 3/4 in. and pressure test disks, white	300
542001	1 in. slip inlet with snap-in 3/8 in., 3/4 in. and pressure test disks, black	50
542002	1-1/2 in. slip inlet with snap-in 1/2 in., 3/4 in., 1 in., and pressure test disks, white	200
542003	1-1/2 in. slip inlet with snap-in 1/2 in., 3/4 in., 1 in., and pressure test disks, black	200
INSIDER DIRECTIONAL FITTINGS		

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. GROUCH

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 5600 77 JERSEY CT RALEIGH, NC 27617 919.480.1075
DWG@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 BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR THEIR USE IN PERMITTING, CONSTRUCTION, AND RECORD PURPOSES ONLY. THE 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

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.	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 AND 1 ½" HYDROSTATIC RELIEF VALVE	AQUASTAR 914xxx [SUMP P/N 9–4 SB]
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	
M16	BACKSTROKE FLAG ANCHOR	SELECTED BY OWNER
M17	HANDICAPPED LIFT	SR SMITH MULTI–LIFT
M18	3HP FOUNTAIN PUMP w/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD – PROVIDE A SPARE BASKET FOR STRAINER	PENTAIR–WFE–12
M19	12"x12" FOUNTAIN SUMP AND COVER	ASA FPK 50–812–4 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
POOL CONTRACTOR SHALL VERIFY THAT POOL EQUIPMENT SCHEDULE AND CUT SHEETS MATCH BEFORE ORDERING ANY ITEMS OF EQUIPMENT		

PROJECT NO.: 23900139

DATE: 05/02/2023

DRAWN BY: FAB

DETAILS

SP.4

M8

PRE-PLUMBED VALVES

BACKWASH VALVES FOR 1-1/2 & 2 IN. D.E. AND SAND FILTERS

Side mounted HiFlow™ and Multiport Valves are designed for maximum performance and working pressures. Available in 1-1/2 and 2 in. threaded or slip models.

Featured Highlights

- PVC body
- The right valve for easy operation
- Six-position, positive-lock operation
- Special winterizing position

Ordering Information

Product	Description	Carton Qty.	Carton Wt. (Lbs.)
MULTIPORT VALVE KIT FOR FILTERS, SLIP			
261055	2 in. MPV, for Triton & Quad D.E. filters [SM 20-3] 7-1/2 in. Centerline	1	9
261152	2 in. MPV, for FNS, FNS Plus & NSP filters [SM 20-2] 7-1/2 in. Centerline	1	9
261173	1-1/2 in. MPV, for Triton & Quad D.E. filters [SM 10-3] 7-1/2 in. Centerline	1	8
261177	1-1/2 in. MPV, for FNS, FNS Plus & NSP filters [SM 10-2] 7-1/2 in. Centerline	1	8
HIFLOW VALVE KIT FOR FILTERS, SLIP			
261050	2 in., w/ bulkhead fittings, for Triton & Quad D.E. filters, 7-1/2 in. Centerline	1	9
261142	2 in., w/ bulkhead fittings, for FNS, FNS Plus & NSP filters, 7-1/2 in. Centerline	1	9
PVC SLIDE VALVE, SLIP			
263064	Push Pull Valve, 7-1/2 in. Center, PVC, Almond	1	4.5
263079	2 in. w/o bulkhead fittings for D.E. and sand filters, 7-1/2 in. Centerline	1	
FULLFLOXF BACKWASH VALVES			
262507	Sta-Rite version for System 3 Model D.E., inlet on top, with Sta-Rite offset adapters glued on		
262508	Sta-Rite version for System 3 D.E. and Sand, inlet on bottom, with Sta-Rite offset adapters glued on		
262509	Valve with filter inlet port on top, no fittings, only valve		
262511	Valve with filter inlet port on bottom, no fittings, only valve		
263080	Valve for Sand and Quad D.E., inlet port on top, Pentair 2 in. unions glued on		
263081	Valve for D.E., inlet port on bottom, Pentair 2 in. unions glued on		

HiFlow Valve Kit 261050

PVC Slide Valve Kit 263064

Multiport Valve Kit 261055

FullFloXF™ Backwash Valve Kit 263080

ECO select™

CALIFORNIA PROPOSITION 65 WARNING
⚠ **WARNING:** Cancer and Reproductive Harm.
⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Troubles sur la Fonction Reproductrice
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

M13

AMERLITE® LIGHTS

UNDERWATER INCANDESCENT LIGHTS WITH S/S FACE RINGS

TRADEGRADE

Amerlite Incandescent Light

Featured Highlights

- World standard of reliability
- Stainless steel face ring with uni-tension clamp
- Superior light diffusion
- Prismatic tempered lens
- Low water cutoff
- Medium blue lenses available
- Plastic snap-on face rings available for six lights

Amerlite light, the world standard of reliability for underwater lights, features a stainless steel shell, 0.5(R) in. prismatic tempered glass lens and stainless steel face ring with uni-tension clamp. Amerlite lights are UL listed to install in full-sized Pentair Pool Products, American, PacFab and Pures niches.

All Pentair UL Listed underwater lights are certified for use in fresh water with up to 8,000 ppm salinity.

CALIFORNIA PROPOSITION 65 WARNING
⚠ **WARNING:** Cancer and Reproductive Harm.
⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Troubles sur la Fonction Reproductrice
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

Product	Voltage	Wattage	Cord Length (Ft.)	Carton Qty.	Carton Wt. (Lbs.)
AMERLITE WITH STAINLESS STEEL FACE RING – 300 WATT, 120 VOLT					
78421100	120	300	15	1	6
78428100	120	300	50	1	10
78928050	120	300	100	1	15
78927000	120	300	150	1	20
78927900	120	300	200	1	25
AMERLITE WITH STAINLESS STEEL FACE RING – 400 WATT, 120 VOLT					
78441100	120	400	15	1	6
78448100	120	400	50	1	10
78949100	120	400	100	1	15
78447100	120	400	150	1	20
78449100	120	400	200	1	25
AMERLITE WITH STAINLESS STEEL FACE RING – 500 WATT, 120 VOLT					
78451100	120	500	15	1	6
78458100	120	500	50	1	10
78456300	120	500	100	1	15
78457100	120	500	150	1	20
78459100	120	500	200	1	25
78458300	120	500	250	1	35
AMERLITE WITH STAINLESS STEEL FACE RING – 100 WATT, 12 VOLT					
78411100	12	100	15	1	6
78418100	12	100	50	1	10
78415100	12	100	100	1	15

M14

POOL SPECIALTY FITTINGS (CONT'D)

WHITE GOODS

Ordering Information

Vacuum Plug

86201500

Rope Hook

Valve Lid & Ring ABS

542044

542142

Product	Description	Carton Qty.	Carton Wt. (Lbs.)
FLOOR INLET FITTINGS			
08417-0000	2 in. Slip with 1-1/2 in. slip bushing, white [1]	1	1
08417-0100	2 in. Slip with 1-1/2 in. slip bushing, gray [1]	1	1
08417-0200	2 in. Slip with 1-1/2 in. slip bushing, black [1]	1	1
SPECIAL FITTINGS			
46550000	Aerator Cap, 1-1/2 in. for air channel, white	50	13
46550015	Aerator Cap, 1-1/2 in. for air channel, dark gray	50	13
46550065	Aerator Cap, 1-1/2 in. for air channel, gray	50	13
510166	Hose adapter, straight, white [4]	50	3
86201500	Aerator inlet (used as a return spray nozzle)	10	1
K12500	Snap Lock Kit Fitting	1	0.10
GW9530	Vac-port fitting, NSF listed	1	0.10
86200500	Vacuum or Winterizing plug with O-ring	1	0.50
VALVE COVERS			
86300100	Valve Lid & Ring, ABS, 6 in., white	1	1
86300130	Valve Lid & Ring, ABS, 6 in., beige	1	1
GRATE INSERTS			
540056	Grate insert, 1-1/2 in. MIP, white [2]	50	2
540057	Grate insert, 1-1/2 in. MIP, black [2]	50	2
ROPE ANCHORS & HOOKS			
542044	Anchor Cup with SS bar, white [1]	100	24
542045	Anchor Cup with SS bar, black [1]	100	24
86201200	Anchor Cup, ABS, white	100	16
86201215	Anchor Cup, ABS dark gray	100	16
86201300	Anchor Cup, ABS with SS cross bar, white [1]	100	16
86201400	Rope Hook, 3/4 in., ABS	150	16
542142	Rope Hook for 3/4 in. rope with two SS screws	200	22
STEPS			
82400700	ABS Steps, set of three, white	1	3
82400800	ABS Steps, set of three, gray	1	3

[1] Not for use with saltwater pools.
[2] Not for use as a suction fitting.
[3] Use only as a floor inlet fitting.
[4] Hose to NPT fittings.

M10

Mushroom Spray Fountain Model 1800-18

Specifications

Model: 1800-18
Size: 5' 0" Diameter

Features

- Fiberglass dome
- 10" Diameter fiberglass stem
- Water flow: 60-267 gpm (spec)
- Variety of colors

Height Options

Model Number	Clearance
1800-18-84	7' 0"
1800-18-90	7' 6"
1800-18-96	8' 0"
1800-18-102	8' 6"
1800-18-120	10' 0"

GPM required for Curtain

Length of Curtain in Feet	GPM	Minimum Feed Pipe Size
8	267	4"
5.5	193	3"
3.5	133	2.5"
1.5	100	2"
Rain Sprinkle	60	1.5"

Natural Structures
PO Box 270, Baker City, OR 97814 (541) 523-0224 (800) 252-8475 www.naturalstructures.com - info@naturalstructures.com

May 2018

M17

multiLift™

A flanged pool lift, with left or right side mounting, and optional folding seat version.

- Third-party tested & verified ADA compliant
- Integrated armrests
- State of California compliant
- 350 lb/159kg lifting capacity
- Retrofit anchor jig is standard
- Optional folding seat assembly
- LiftOperator® Intelligent Controller
- Powder-coated stainless steel and aluminum construction

ADA COMPLIANT

Lift Color

GRAY MIST

Due to printing technology, actual color may differ.

Model No.	Description	Shipping – (Class 150)			
	Pool Lift with Armrests	Weight	Length	Width	Height
575-0100	multiLift	200 lbs/91kg	50" 127cm	28" 71cm	22" 56cm
575-0100N	multiLift, no anchor				

Note:
• Includes battery, charger, battery console cover, water-resistant hand control, footrest, seat belt assembly, armrests and retrofit anchor jig.

Parts & Accessories

- 1001495 Battery
- 500-3100T Cover
- 900-5100 Wheel-A-Way
- 900-1000 Seat Belt
- 300-6700A Anchors, set of 4
- 300-6900 Retrofit Anchor Jig
- 300-6800A Anchor Bolts, set of 4
- 970-5000T Seat Saver Cover
- 900-4000 Stability Strap
- 170-3000A Armrest Replacement (pair)

New Construction Jig with Anchors 500-5000A

Wheel-A-Way mobility option provides flexibility to transport the lift if needed

Optional folding seat assembly

multiLift with Folding Seat

Model No.	Description	Shipping – (Class 77.5)			
		Weight	Length	Width	Height
575-0100	multiLift with folding seat*	225 lbs/102kg	50" 127cm	24" 61cm	22" 71cm
575-0100N	multiLift with folding seat, no anchor*	225 lbs/102kg			
575-0100	multiLift with armrests and folding seat	230 lbs/104kg			
575-0100N	multiLift with armrests and folding seat, no anchor	230 lbs/104kg			

Note:
• Includes battery, charger, battery console cover, water-resistant hand control, footrest, seat belt assembly and retrofit anchor jig.
* Models without armrests are not compliant with State of California requirements.

Parts & Accessories

- 1001495 Battery
- 500-5100NCT Folding Seat Cover
- 160-6000T Folding Seat
- 900-2000 Stability Vest
- 900-4000 Seat Pad
- 970-0000T Seat Saver Cover
- 170-2320 Armrest Assembly, gray, left & right

New Construction Guidelines

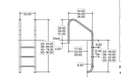
Scenario	Pool Lift	Anchor Jig
Order pool lift and new construction jig at same time	575-3000	500-5000 (no anchors)
Order new construction jig ahead of pool lift	575-3000N	500-5000A (comes with anchors)

M12

Commercial Ladder

- Tubing: 1.90" OD
- Wall Thickness: .065"
- Stainless Steel: 304 or 316L Marine Grade* (add – MG to part number)
- Treads: LTDF-103 Stainless Steel (Elite)
- Bends: 6" Radius
- Options: Powder-coating and SealedSteel Salt Friendly (rails only)
- Recommended anchors: AS-100B (order separately)
- Recommended escutcheon: EP-100F (order separately)

* Minimum requirement for salt pools is 316L Marine Grade



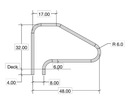
Model No.	Description
LF-1^-2A	2-Step Ladder
LF-1^-3B	3-Step Ladder
LF-1^-4C	4-Step Ladder
LF-1^-5D	5-Step Ladder
LFB-1^-2A	2-Step Ladder with cross brace
LFB-1^-3B	3-Step Ladder with cross brace
LFB-1^-4C	4-Step Ladder with cross brace
LFB-1^-5D	5-Step Ladder with cross brace
LFB-3B-3B-12	Special 36" crossbrace 3-step ladder w/ 12" extended length

Notes:
• Key to order: 1=Finish (choices 2,3 for 24" ladder, 3D for 30" ladder, or 3k for 36" ladder.
• Add "-MG" for 316L Marine Grade.
• Safety Step Kits Add "S" to the end of the part number.
• Frames extend 5½" from the pool wall. Frame is secured to the pool deck with two anchor sockets or 30" centers. The lower end of the frame is bent to meet the pool wall and fitted with two white rubber bumpers (WRB-1005).

M11

Hand & Stair Rails

DMS-101



- Tubing: 1.90" OD
- Wall Thickness*: .049" or .065"
- Stainless Steel: 304 or 316L Marine Grade** (add –MG to part number)
- Bends: 6" Radius
- Options: Powder-coating and SealedSteel Salt Friendly
- Recommended Anchors: AS-100P or AS-100B (order separately)
- Recommended Escutcheon: EP-100F (order separately)
- **Sold as a single rail**

* Minimum rail thickness is .065 for Commercial
** Minimum requirement for salt pools is 316L Marine Grade

DMS-101

Model No.	Description	Shipping			
		Weight	Length	Width	Height
DMS-101A	48" Center Grab Rail, .049	13 lbs — 16 lbs 6 — 7kg	59" 150cm	39" 99cm	2" 5cm
DMS-101B	48" Center Grab Rail, .065	13 lbs — 16 lbs 6 — 7kg	59" 150cm	39" 99cm	2" 5cm

M9

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.	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 AND 1 ½" HYDROSTATIC RELIEF VALVE	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	
M16	BACKSTROKE FLAG ANCHOR	SELECTED BY OWNER
M17	HANDICAPPED LIFT	SR SMITH MULTI–LIFT
M18	3HP FOUNTAIN PUMP w/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD – PROVIDE A SPARE BASKET FOR STRAINER	PENTAIR–WFE–12
M19	12"x12" FOUNTAIN SUMP AND COVER	ASA FPK 50–812–4 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

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

NORTH CAROLINA PROFESSIONAL SEAL 051518 ENGINEER JONATHAN M. CROUCH
Jonathan M. Crouch 5/4/23

P-0961

JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting, PLLC, 5400 77 JERSEY CT RALEIGH, NC 27617 919.480.1075
DWC@JDSCONSULTING.NET - WWW.JDSCONSULTING.NET

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: 05/02/2023
DRAWN BY: FAB

DETAILS

SP.5