

PLANS FOR:

PROVIDENCE CREEK AMENITY CENTER & POOL



P-0061

JDS Consulting
 ENGINEERS • DESIGN • ENERGY

JDS Consulting, PLLC, 543 Pylon Drive, Raleigh, NC 27606
 INFO@JDSCONSULTING.COM WWW.JDSCONSULTING.COM

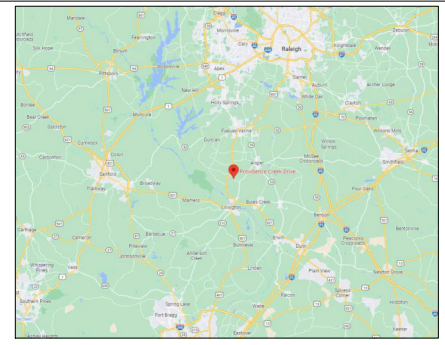
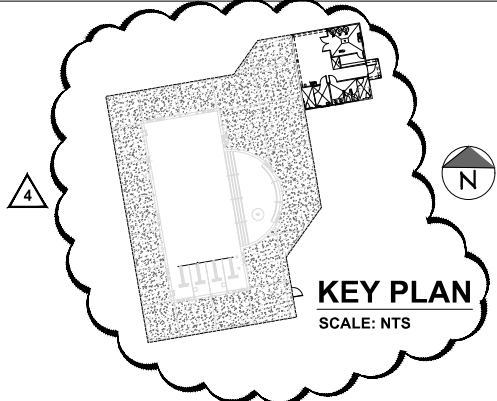
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INDEX OF SHEETS		REVISION LOG		
SHEET	TITLE	DATE	REVISED BY	REVISION
T	TITLE SHEET: PROJECT INFORMATION AND NOTES	03/07/2023	NWS	REMOVED FIRE ALARM FROM APPENDIX B
GN1.0	GENERAL NOTES	05/02/2023	NWS	REVISED B2 DETAILS PER CLIENT REQUEST, ADDED PLUMBING NOTE PER CLIENT REQUEST
APP B1	APPENDIX "B"	05/31/2023	NWS	REVISED AS PER DEPARTMENT OF ENVIRO. HEALTH REVISIONS
APP B2	APPENDIX "B"	09/08/2023	NWS	RESIZED POOL DECK AS PER CLIENT REQUEST
B1.0	FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES			
B2.0	ELEVATIONS, RESTROOMS, WALL SECTION			
B2.1	LIFE SAFETY PLAN			
S1.0	FIRST FLOOR FRAMING PLAN			
M1.0	MECHANICAL PLANS			
E1.0	ELECTRICAL PLANS			
E1.1	ELECTRICAL SCHEDULES			
P1.0	PLUMBING PLANS			
P1.1	PLUMBING NOTES AND DETAILS			
SP1.1	POOL PIPING LAYOUT			
SP1.2	POOL LAYOUT			
SP.2	SECTIONS AND DETAILS			
SP.3	SECTIONS AND DETAILS			
SP.4	DETAILS			
SP.5	DETAILS			
SP.6	DETAILS			

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.	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 JURISDICTION. 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.
2. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.	

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 543 PYLON DRIVE RALEIGH, NC 27606 FIRM LIC. NO: P-09961 PROJECT REFERENCE: 23902104



VICINITY MAP
SCALE: NTS

CLIENT: MATTAMY HOMES
 PROJECT: PROVIDENCE CREEK AMENITY CENTER & POOL
 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.: 23902104
 DATE: 09/13/2023
 DRAWN BY: NWS
 TITLE SHEET: T

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Unit/Notes. Includes terms like ABV ABOVE, AFF ABOVE FINISHED FLOOR, ALT ALTERNATE, BRG BEARING, BSHT BEARING, CANT CANTILEVER, CJ CEILING JOIST, CLG CEILING, CMU CONCRETE MASONRY UNIT, CASD CASING, COL COLUMN, CONC CONCRETE, CONT CONTINUOUS, DBL CLOTHES DRYER, DIAM DIAMETER, DJ DOUBLE JOIST, DP DEEP, DR DOUBLE RAFTER, DBP DOUBLE STUD POCKET, EA EACH, EE EACH END, EQ EQUAL, EX EXTERIOR, FAL FORCE-AIR UNIT, FDN FOUNDATION, FIN FINISHED FLOOR, FLR FLOORING, FP FIREPLACE, FTO FOOTING, HB HOSE BIBB, HBR HANGER, HJR HANGER, HJS HANGER STUD COLUMN, KS KING STUD COLUMN, LVL LAMINATED VENEER LUMBER, MAX MAXIMUM, MECH MECHANICAL, MFR MANUFACTURER, NTS NOT TO SCALE, OC ON CENTER, ON CENTER, P PRESSURE TREATED, RIBER, REF REFRIGERATOR, RFG ROOFING, RO ROUGH OPENING, SC STUD COLUMN, SF SQUARE FOOT (FEET), SHL SHELL / SHELVES, SHTG SHEATHING, SHW SHOWER, SM SMILAR, SJ SINGLE JOIST, STU STUD POCKET, SPEC'D SPECIFIED, SQ SQUARE, T TREAD, TEMP TEMPERED GLASS, THK THICKNESS, TOC TOP OF CURB / CONCRETE, TYP TYPICAL, TR TRIPLE RAFTER, UNO UNLESS NOTED OTHERWISE, W CLOTHES WASHER, WH WATER HEATER, WWF WELDED WIRE FABRIC, 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

Table with 2 columns: Description and Value. Includes items like 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): 150 PSF, 4. SNOW LOADS: a. GROUND SNOW: 15 PSF, b. FLAT ROOF SNOW: 15 PSF, c. SNOW EXPOSURE FACTOR, Ce: 1.0, d. IMPORTANCE FACTOR, Ie: 1.0, e. THERMAL FACTOR, Ct: 1.0, f. DRIFT SURCHARGE LOADS, Pd: 0, g. WIDTH OF SNOW DRIFT(S), w: 0, 5. WIND: a. ULTIMATE DESIGN WIND SPEED: 118 MPH, b. NOMINAL DESIGN WIND SPEED: 90 MPH, c. RISK CATEGORY: II, d. WIND EXPOSURE CATEGORY: B, e. INTERNAL PRESSURE COEFFICIENT: +1.0, -1.0, f. ROOF COMPONENTS AND CLADDING: +10 PSF, -31 PSF, g. WALL COMPONENTS AND CLADDING: +18 PSF, -59 PSF, 6. SEISMIC: a. RISK CATEGORY: II, b. IMPORTANCE FACTOR, Ie: 1.0, c. MAPPED SPECTRAL RESPONSE ACCELERATION, Sa: 0.118, d. MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.059, e. SITE CLASS: D, f. DESIGN SPECTRAL RESPONSE ACCELERATION, Sds: 0.23, g. DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1: 0.148, 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: 0.5, 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 BY UNSATURATED FACTORY CONDITIONS TEST.
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" ON CENTER 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 STRIPPUS.
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 DUCTS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THESE RESPECTIVE ITEMS.
7. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1197.
8. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABLY 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 1,500 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 = 50 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 A505, TYPE N, SINKS 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 GRIDDERS 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 DETAILD 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 1/4" 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 SPOUCE-PINE-FR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (IF SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):
Fb = 875 PSI Fv = 70 PSI E = 1,465 PSF
3. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SPY) WITH THE FOLLOWING DESIGN PROPERTIES:
Fb = 975 PSI Fv = 95 PSI E = 1,668 PSI
4. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2600 PSI Fv = 285 PSI E = 1,856 PSI
5. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2900 PSI Fv = 280 PSI E = 2,068 PSI
6. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2250 PSI Fv = 400 PSI E = 1,566 PSI
7. REFER TO JOIST EQUIVALENCE CHART ON JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.
8. ALL BEARING HEADERS TO BE (2) 2x4 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 BE 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 CONSIDER 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 METHODS 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 CS35 STRAPS ACROSS STUDS @ 30" OC, 4" 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 RMW 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 SLINGING 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 AMERICAN...
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 CONSIDER 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-A (MINIMUM) OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION AT OVER-HANG AREAS, UNLESS NOTED OTHERWISE.
9. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.
10. WOOD MEMBERS SHALL NOT BE CUT FOR PLUMBING OR IRVING UNLESS DETAILED ON THE APPROVED SHOP DRAWINGS.

FASTENER SCHEDULE table with columns: CONNECTION, 3" x 0.131" NAIL, 3" x 0.120" NAIL. Rows include JOIST TO SILL PLATE, SOLE PLATE TO JOIST / BLOCKING, STUD TO SOLE PLATE, TOP OR SOLE PLATE TO STUD, RM JOIST OR BAND JOIST TO TOP OR SILL PLATE, BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE, DOUBLE STUD, DOUBLE TOP PLATES, DOUBLE TOP PLATES LAP, TOP PLATE LAP AT CORNERS AND INTERSECTING WALL, OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE, BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE.

DETAILS AND NOTES ON DRAWINGS GOVERN.



JDS Consulting, Inc. logo and contact information: 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526. Includes website URL and phone number.

Project information block including: CLIENT: MATTAMY HOMES, PROJECT: PROVIDENCE CREEK AMENITY CENTER & POOL, ADDRESS: 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526, PROJECT NO.: 23902104, DATE: 09/13/2023, DRAWN BY: NWS, GENERAL NOTES, and logo 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 27256 Zip Code: 27256
Owner/Authorized Agent: JDS CONSULTING Phone # (919) 675-8619 E-Mail: TOLABR@JDSCONSULTING.NET
Owned By: City/County Private State
Code Enforcement Jurisdiction: City FUQUAY-VARINA County State

CONTACT:
DESIGNER: FIRM: JDS CONSULTING NAME: JONATHAN CROUCH LICENSE #: 051518 TELEPHONE #: (919) 698-3683 E-MAIL: JCROUCH@JDSCONSULTING.NET
Architectural: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Electrical: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Fire Alarm: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Plumbing: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Mechanical: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Sprinkler-Standpipe: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Structural: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
Retaining Walls >5' High: JDS CONSULTING JONATHAN CROUCH 051518 (919) 698-3683 JCROUCH@JDSCONSULTING.NET
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 Change of Use
 Historic Property

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

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

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
(check all that apply)
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes Flood Hazard Area: No Yes
Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table		
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)
3 rd Floor		
2 nd Floor		
Mezzanine		
1 st Floor		931 SQ. FT.
Basement		
TOTAL		931 SQ. FT.

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 De/flagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 Condition I-2 I-3 Condition I-1 I-2 I-3 I-4 I-5
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.

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

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

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

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 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		TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
PARKING LOT	10	20	0	2	2
TOTAL	10	20	0	2	2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)										
USE	WATER CLOSETS			URINALS			LAVATORIES		SHOWERS	DRINKING FOUNTAINS
	MALE	FEMALE	UNSEV	MALE	FEMALE	UNSEV	70 IN	70 IN	REGULAR	ACCESSIBLE
SPACE	0	0	0	0	0	0	N/A	0	0	0
EXIST'G	0	0	0	0	0	0	1	2	0	1
NEW	1	3	0	1	1	1	2	0	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 _____

239021104

DATE: 09/13/2023 DRAWN BY: NWS

CODE SUMMARY

APP.B1


 PROJECT NO. 239021104
 DATE: 09/13/2023 DRAWN BY: NWS
 CODE SUMMARY
APP.B1

MATTAMY HOMES
 PROJECT: PROVINCE CREEK AMENITY CENTER & POOL
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27256
 SCALE: 1/4" = 1'-0" FOR 24x36 PAGES, NOT TO SCALE FOR 11x17 PAPER OR AS NOTED
 CONSULTING ENGINEER: JDS CONSULTING
 196 COMBING PLACE, SUITE 100, FAYETTEVILLE, NC 27008
 INFO: (704) 782-1111 FAX: (704) 782-1112
 WWW.JDSCONSULTING.NET
 JDS CONSULTING
 ENGINEERS • DESIGNERS • ARCHITECTS
 196 COMBING PLACE, SUITE 100, FAYETTEVILLE, NC 27008
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ENERGY SUMMARY

ENERGY REQUIREMENTS:

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

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

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

Climate Zone: 3A 4A 5A

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly) **FIBERGLASS SHINGLES OVER WOOD SHEATHING**

Description of assembly: **W/ R42 INSULATION AND 1/2" GWB.**

U-Value of total assembly: **0.22**

R-Value of insulation: **R42**

Skylights in each assembly: _____

U-Value of skylight: _____

total square footage of skylights in each assembly: _____

Exterior Walls (each assembly) **LAP SIDING, RIGID INSULATION, WOOD STUDS.**

Description of assembly: **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

4" THICK CONCRETE SLAB OVER 6MIL VAPOR BARRIER OVER 4"

Description of assembly: **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 u

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) I II III IV

Spectral Response Acceleration S_s 0.125 %g S₁ 0.065 %g

Site Classification (ASCE 7) A B C D E F

Data Source: Field Test Presumptive Historical Data

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

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field test (provide copy of test report) _____ psf

Presumptive Bearing capacity 2000 psf

Pile size, type, and capacity _____

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____

summer dry bulb: _____

Interior design conditions

winter dry bulb: _____

summer dry bulb: _____

relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary description of unit: _____

heating efficiency: _____

cooling efficiency: _____

size category of unit: _____

Boiler Size category. If oversized, state reason: _____

Chiller Size category. If oversized, state reason: _____

List equipment efficiencies: _____

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)

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


Additional Efficiency Package Options

(When using the 2018 NCECC; not required for ASHRAE 90.1)

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

SEE SHT.E1

SEE SHT M2.0



PROJECT NO. **23902104**

DATE: **09/13/2023** DRAWN BY: **NWS**

CODE SUMMARY


APP.B2

CLIENT: **MATTAMY HOMES**

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

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

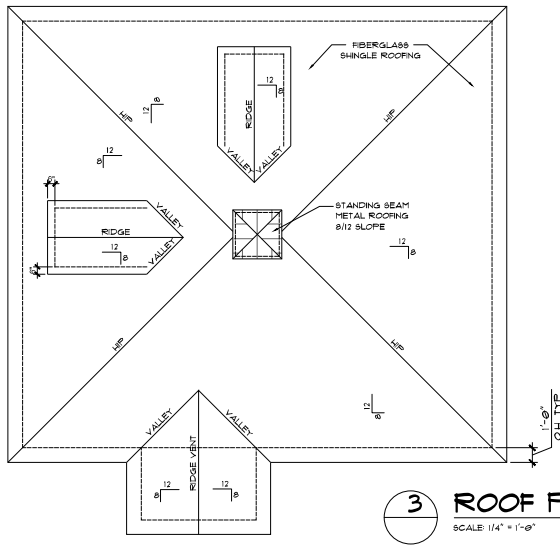
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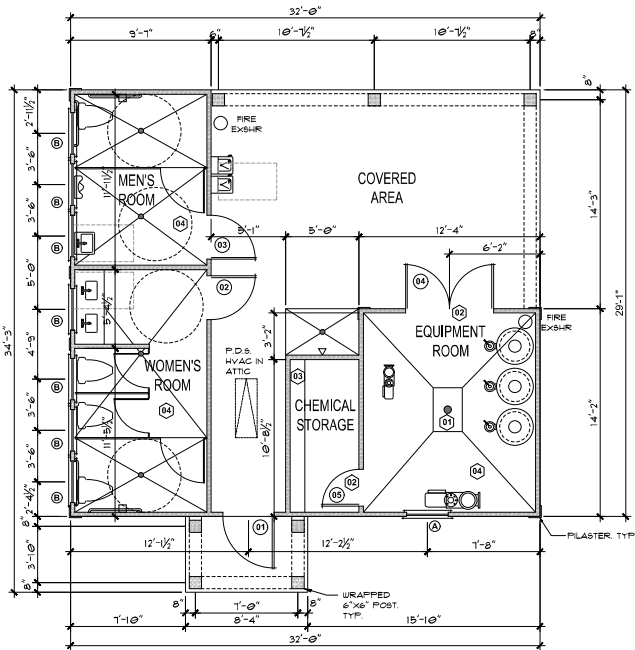
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3 ROOF PLAN
SCALE: 1/4" = 1'-0"



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

FINISH SCHEDULE

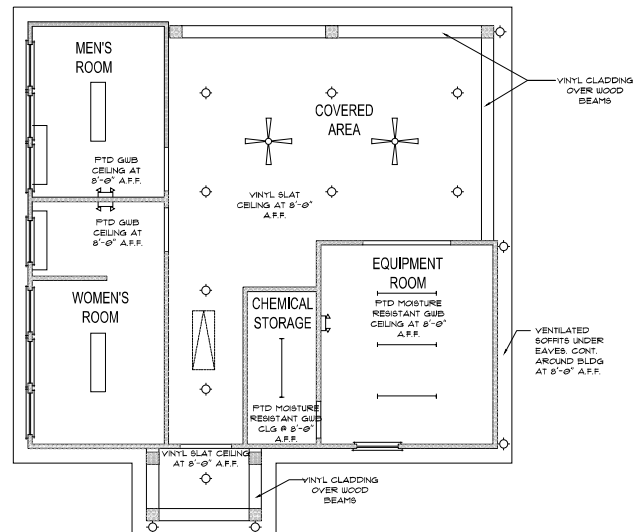
ROOM	WALLS	FLOOR	BASE	CEILING	CEILING HT.
MENS	CERAMIC TILE TO 48" A.F.F. FTD GUB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
WOMENS	CERAMIC TILE TO 48" A.F.F. FTD GUB ABOVE	CERAMIC TILE	CER. TILE COVE	PAINTED GYP BD	8'-0"
PUMP ROOM	PAINTED M.R. GUB	SEALED CONCRETE	4. VINYL COVE	PAINTED M.R.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

DOOR AND WINDOW SCHEDULE

DOOR #	SIZE	TYPE	FRAME TYPE	HARDWARE	COMMENTS
01	3'-6" X 1'-0"	6 PANEL WOOD	HM	02	-
02	2'-6" X 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOVERED
03	3'-0" X 1'-0"	6 PANEL WOOD	HM	01	BOTTOM PANEL TO BE LOVERED
04	PAIR 3'-0" X 1'-0"	6 PANEL WOOD	HM	05	FULL LOVERED DOOR
05	3'-0" X 1'-0"	6 PANEL WOOD	HM	04	BOTTOM PANEL TO BE LOVERED
WINDOW A	34" X 84"	DOUBLE HING	WOOD		ADD OBSCURE GLAZING FILM
WINDOW B	34" X 16"	TRANSOM	WOOD		ADD OBSCURE GLAZING FILM

HARDWARE SETS

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



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

GENERAL NOTES

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



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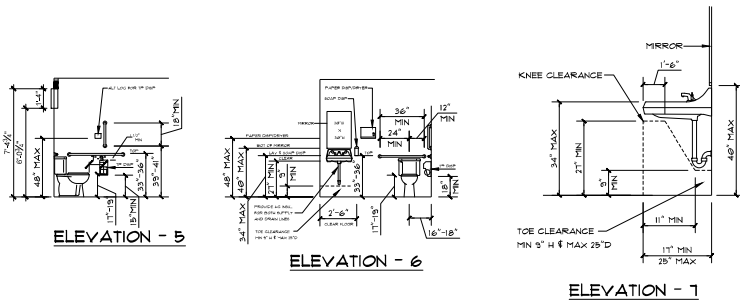
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919.850.1111
www.jdsconsulting.com

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

PROJECT NO.: **23902104**
DATE: **09/13/2023** DRAWN BY: **NWS**

FLOOR PLAN, ROOF PLAN, RCP, SCHEDULES

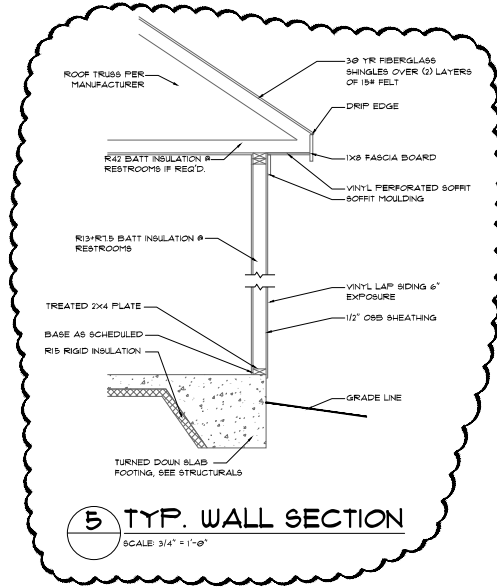
B1.0



NOTE FINISH DIMENSIONS

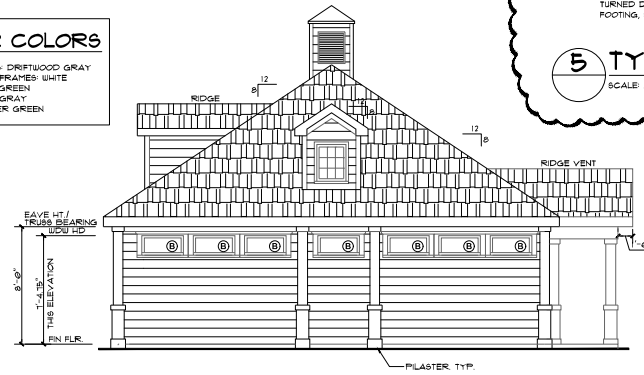
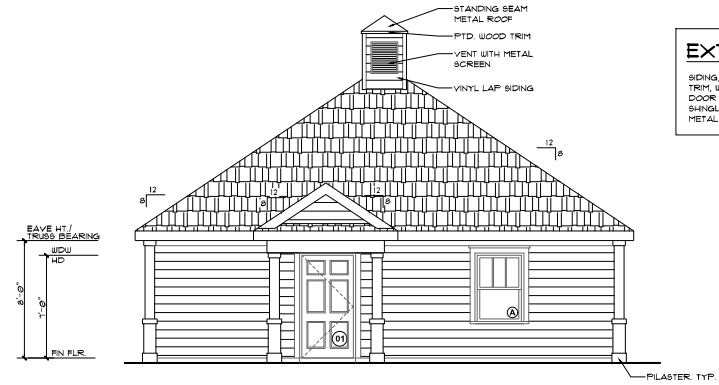
HC RESTROOM ELEVATIONS

SCALE N.T.S.



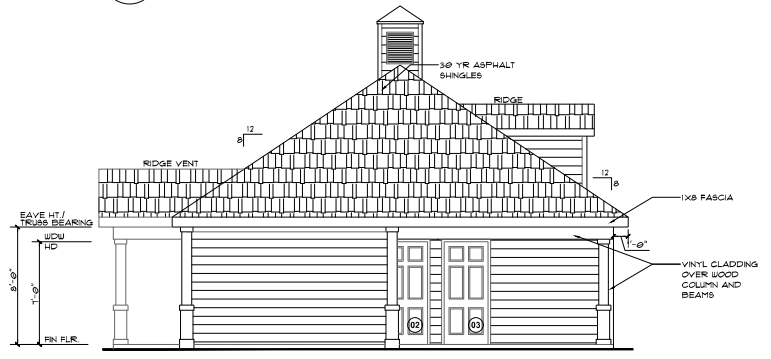
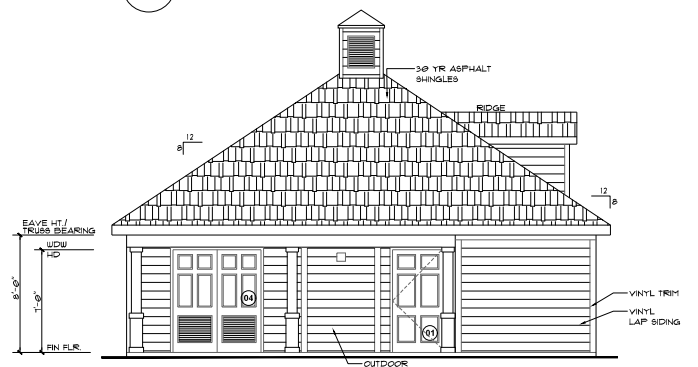
EXTERIOR COLORS

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



732 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
5.4 SF AREA - DORMER GLAZING
5.4 SF AREA - PLASTER 1
5.4 SF AREA - PLASTER 2
5.4 SF AREA - PLASTER 3
5.4 SF AREA - PLASTER 4
14 SF AREA - TOTAL 31.8%



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196 Providence Creek Drive, Fuquay-Varina, NC 27526
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MATTAMY HOMES

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

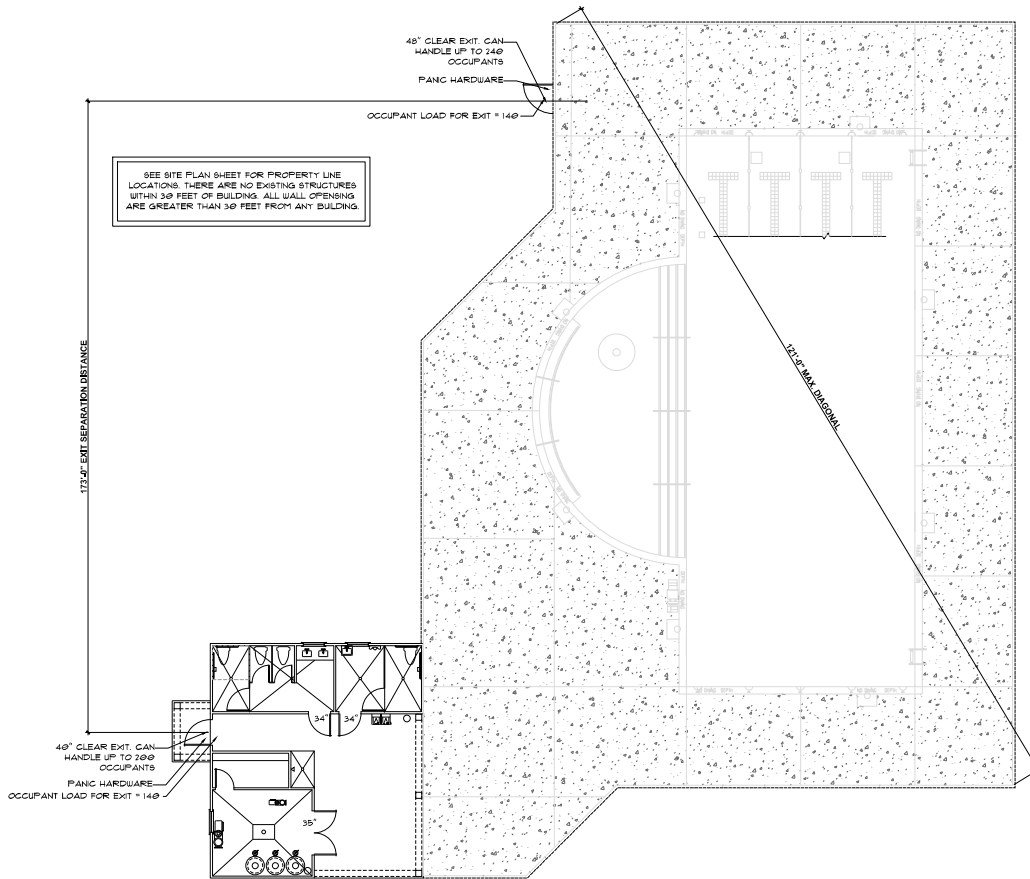
196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

PROJECT NO. **23902104**

DATE: **09/13/2023** DRAWN BY: **NWS**

ELEVATIONS, RESTROOMS, WALL SECTION

B2.0



1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

POOL DECK OCCUPANCY REQUIREMENTS

- TOTAL POOL DECK AREA IS 4,396 SF. MINIMUM UNOCCUPABLE AREA AROUND THE POOL IS 2,116 SF.
- GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,996 +/- 116 = 2,880 SF.
- DECK IS 2,880 SF AT 15 SF PER PERSON, DECK OCCUPANT LOAD IS 192.
- 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 280*0.2 EQUAL 56" OF EXIT REQUIRED. MIN OF 88" SHOWN ON PLAN.
- REQ'D EXIT SEPARATION EQUALS 1/2 THE 121" DIAGONAL, OR 61.173" SHOWN ON PLANS.

4

4

ENTIRE DRAWING ON THIS SHEET HAS BEEN MODIFIED



P-061

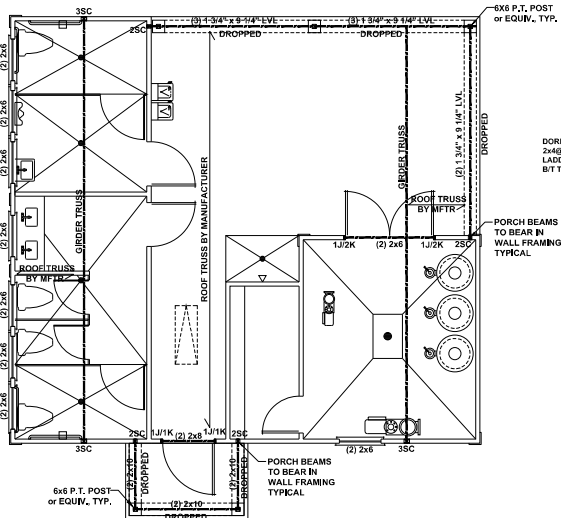
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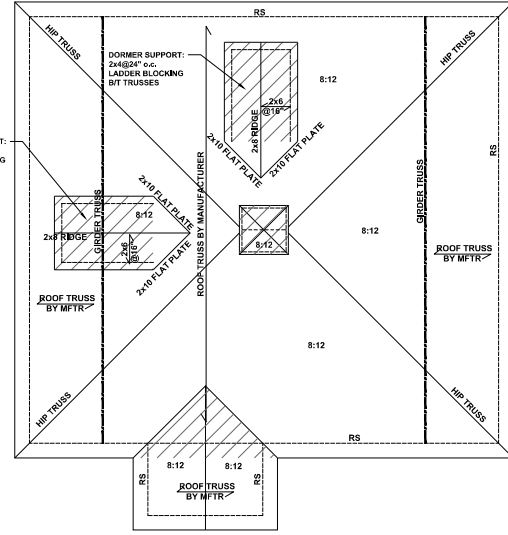
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CLIENT:	MATTAMY HOMES
PROJECT:	PROVINCE CREEK AMENITY CENTER & POOL
ADDRESS:	196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
PROJECT NO.:	23902104
DATE:	09/13/2023
DRAWN BY:	NWS
UL DETAILS	
B2.1	

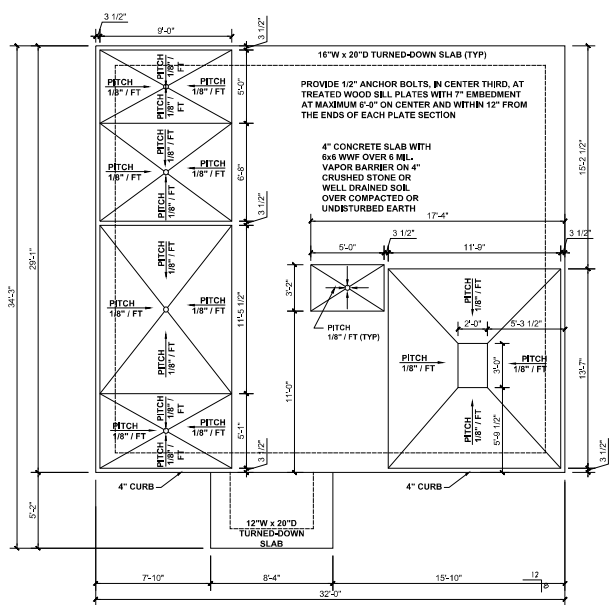
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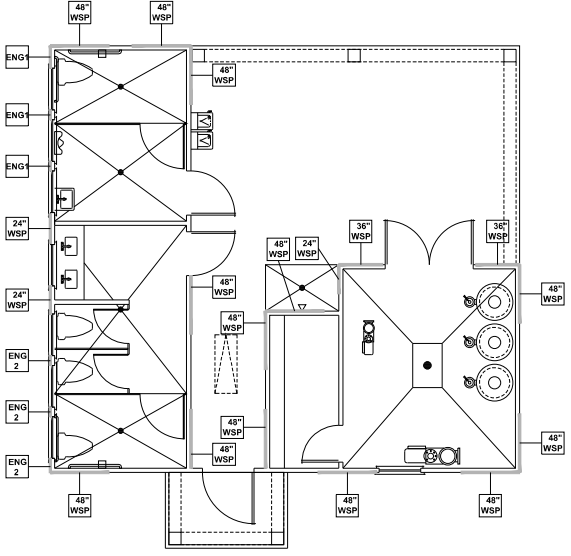
CEILING FRAMING PLAN
SCALE: 1/4" = 1'-0"



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



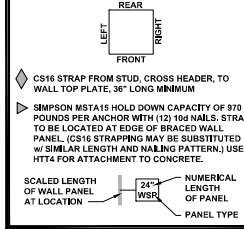
SLAB FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



WALL BRACING PLAN
SCALE: 1/4" = 1'-0"

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTHS 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 APPL.)
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEETS.
- SCHEMATIC BELOW INDICATES HOW SIZES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



ENGINEERED WALL SCHEDULE

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

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS)

- ALL FRAMING TO BE #2 SPF MINIMUM.
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END. UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K. UNO.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TORN OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) AB44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4x4 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).
- FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

TRUSSED ROOF - STRUCTURAL NOTES

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

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE 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



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196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
TEL: 703-408-2456 FAX: 703-408-2457
WWW.JPSCONSULTING.COM

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

PROJECT NO. 23902104
DATE: 09/13/2023 DRAWN BY: NWS
FIRST FLOOR FRAMING PLAN

\$1.0

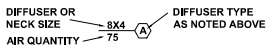
EXHAUST FAN SCHEDULE											
UNIT NO.	SERVICE	CFM	STATIC	RPM	TYPE	MIN. MOTOR HP & VOLTAGE	MAKE	MODEL #	DRIVE	CONTROL SCHEME	REMARKS
EF-1	RESTROOMS	225	0.1	1000	CEILING	813 WATTS/0.77A 120/1	GREENHECK	SP-A250	DIRECT	A	1-6
EF-2	PUMP ROOM	284	0.25	1577	IN-LINE	1/4 HP 120/1	GREENHECK	BSQ-70-4	BELT	B	1-6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

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

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

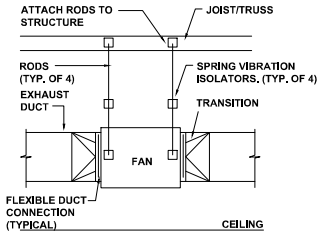
DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	AS NOTED	AS NOTED	12X12	SURFACE	EGGCRATE	NO	ALUM	RETURN	NOTE 2	TITUS 50F	1-3

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



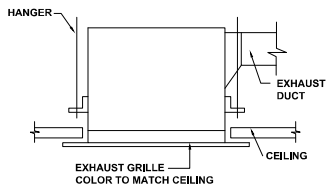
UNIT HEATER SCHEDULE									
TAG	LOCATION	TYPE	BTUH	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
				W	V	PH	HZ		
UH-1	BATHROOMS	ELEC	2,500	750	120	1	60	MARKEL E3321TTD-RP	ALL

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



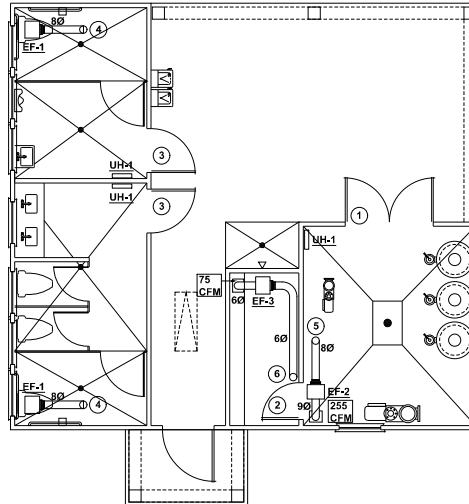
IN-LINE FAN DETAIL

NTS



EXHAUST FAN DETAIL

NTS



MECHANICAL FLOOR PLAN

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

MECHANICAL ABBREVIATIONS

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

MECHANICAL GENERAL NOTES

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

ADDITIONAL MECHANICAL NOTES

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

POOL EXHAUST CALCULATIONS

PUMP ROOM
= 152 SQ FT X 10 FT = 1520 CU FT
10 AIR CHANGES/HOUR = 1520 X (10/60) = 254 CFM
(EF-2 PROVIDES 284 CFM)
CHEMICAL STORAGE ROOM
= 45 SQ FT X 10 FT = 450 CU FT
10 AIR CHANGES/HOUR = 450 X (10/60) = 75 CFM
(EF-3 PROVIDES 129 CFM)

TAGGED PLAN NOTES

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



JDS Consulting
 ENGINEERS • DESIGNERS • ENERGY

170 Commons Place, Suite 1000, Raleigh, NC 27604-4807
 INFO@JDSCONSULTING.COM WWW.JDSCONSULTING.COM

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CLIENT: **MATTAMY HOMES**

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

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. **239021104**

DATE: **09/13/2023** DRAWN BY: **NWS**

MECHANICAL PLAN

M1.0

POOL NOTES

- ALL ELECTRICAL EQUIPMENT IN POOL AREA SHALL BE BONDED TOGETHER WITH #8 CU. GND. PER N.E.C. #680-26.
- ALL RECEPTACLES IN POOL AREA WITHIN 20' OF POOL AND IN POOL EQUIPMENT ROOM SHALL BE WEATHERPROOF G.F.C.I. TYPE.
- ELECTRICAL INSTALLATION IS TO BE IN COMPLIANCE WITH ARTICLE 680 OF THE N.E.C.
- 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:
 - ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING STEEL WITHIN 5' HORIZONTALLY OF THE POOL WALL IN ALL CONCRETE SLABS.
 - UNDERWATER LIGHT FIXTURES, INCLUDING FORMING SHELLS, MOUNTING BRACKETS AND JUNCTION BOXES AS REQUIRED.
 - HANDRAILS.
 - LADDERS.
 - PUMP MOTORS, FOR ALL POOLS.
 - WINDOW FRAMES, WHERE NOTED.
 - LIGHT FIXTURES ABOVE THE POOL AND WITHIN 5 FEET HORIZONTALLY OF THE POOL WALLS.
 - ANY OTHER METALLIC PARTS REQUIRED BY THE N.E.C.
- 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:
 - UNDERWATER LIGHTING FIXTURES.
 - ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CIRCULATION SYSTEM OF THE POOL.
 - ALL ELECTRICAL EQUIPMENT WITHIN 5 FEET OF THE POOL.
 - JUNCTION BOXES.
 - TRANSFORMER ENCLOSURES.
 - PANELBOARDS SUPPLYING POWER TO ANY EQUIPMENT ASSOCIATED WITH THE POOL OR SPRAY AREA.
 - GROUND FAULT INTERRUPT CIRCUITS.
 - GROUNDING FOR POOL LIGHTS AND FOR PUMP MOTORS IS TO BE IN CONDUIT.
 - ALL UNDERWATER LIGHT FIXTURES MUST BE SUBMERGED BEFORE BEING OPERATED.
 - UNDERWATER LIGHT FIXTURES MUST BE REMOVABLE FROM THE WATER FOR RELAMPING OR NORMAL MAINTENANCE WITHOUT REQUIRING DRAINAGE OF THE POOL.
 - 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).
 - WHEN RESALING 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).
 - ALL THREADED CONNECTIONS MUST BE MADE WITH NATIONAL TAPERED PIPE THREADS (N.P.T.) AND APPROVED THREAD SEALANT.

- 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.
- ALL METALLIC PIPING SYSTEMS ASSOCIATED WITH THE POOL MUST BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE POOL.
- UNDERWATER TYPE SO AND ST CORD CANNOT BE SPLICED EXCEPT IN AN APPROVED UNDERWATER JUNCTION BOX OR UL LISTED UNDERWATER SPLICE KIT.
- MAXIMUM EXPOSED CORD LENGTH IS 10 FEET, ANY LENGTH BEYOND 10 FEET MUST BE PROTECTED BY CONDUIT.
- THE CONDUIT SYSTEM MUST BE WATERTIGHT FROM THE PANEL TO THE POOL.
- ALL CONDUITS EXPOSED TO MOISTURE (BELOW GROUND, IN THE POOL, ETC.) MUST BE OF A NON-CORROSIBLE MATERIAL.
- 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
- CW COPPER WIRE
- EF ELECTRIC FAN
- EL EMERGENCY LIGHTING
- EM EMERGENCY EXIT SIGN
- GF GROUND FAULT INTERRUPTER
- GRD GROUND
- HP HEAT PUMP
- J JUNCTION BOX
- MCB MINUTIAURE CIRCUIT BREAKER
- PH PHASE
- OS MOTION SENSOR
- TWH INLINE WATER HEATER

ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR IS TO REVIEW COMPLETE DRAWING SET BEFORE ANY WORK AND/OR INSTALLATION IS STARTED.
- ELECTRICAL CONTRACTOR IS TO REPORT ON ANY DISCREPANCY(S) TO ENGINEER PRIOR TO WORK/INSTALLATION FOR CLARIFICATION AND/OR SOLUTION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK EXPLICITLY SHOWN AND WORK IMPLIED UNLESS OTHERWISE NOTED.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICTS AND MISTAKES, AND TO ENSURE OTHER TRADES/PURPOSE MEASURES TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ETC.)
- 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.
- FINAL ELECTRICAL CONNECTION(S) TO ALL EQUIPMENT, AND/OR FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC.) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL CONDUCTORS SHALL BE COPPER AND TYPE NM #12AWG MINIMUM WIRE SIZES SHALL BE BASED ON 75 DEGREE WIRE & TERMINALS.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
- ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH ELECTRICAL UTILITY PRIOR TO PURCHASING DISTRIBUTION EQUIPMENT.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADE DISCIPLINE TO AVOID INTERFERENCE AND RE-WORK.
- ALL CONDUCTORS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED 24" B.F.G AND IN SCHEDULE 40 PVC CONDUIT.
- ALL FLUORESCENT LAMPS SHALL BE T-8 SP 41 OR APPROVED EQUAL LAMPS SHALL BE ENVIRONMENTALLY SAFE.
- 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.
- ELECTRICAL CONTRACTORS OR DESIGNATED TELECOMMUNICATIONS SUBCONTRACTOR SHALL COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.
- 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.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST FAN MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATHROOM EXHAUST DUCTWORK.
- ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SEALS TO MAIN DISTRIBUTION PANELS PER NEC 225.27.
- ALL DEVICES TO BE INSTALLED FOR ADA ACCESSIBILITY PER ANSI A117.1
- CONDUIT ENTERING COOLER AND FREEZER TO BE SEALED PER NEC 300.7
- ELECTRICAL CONTRACTOR TO PROVIDE AUG-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.
- ALL EXTERNAL LIGHTS TO BE CONNECTED TO UNSWITCHED SIDE OF NEAREST LIGHT CIRCUIT.
- ALL EXTERNAL LIGHTING TO BE CONNECTED TO TIMER AND PHOTO -CELL IF NOT INCLUDED.
- WHENEVER AND WHEREVER APPLICABLE ALL OUTLETS/RECEPTICLES INSIDE OF ALL AMENITY STRUCTURES SHALL BE TAMPER RESISTANT.



JDS Consulting
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100 Commons Place, 3rd Floor, Raleigh, NC 27601-4800
 919-876-1111
 www.jdsconsulting.com

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PROJECT NO. **23902104**

DATE: **09/13/2023** DRAWN BY: **NWS**

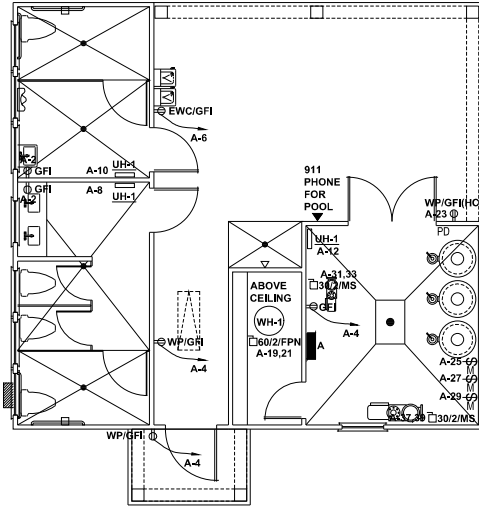
ELECTRICAL PLANS

CLIENT: **MATTAMY HOMES**

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

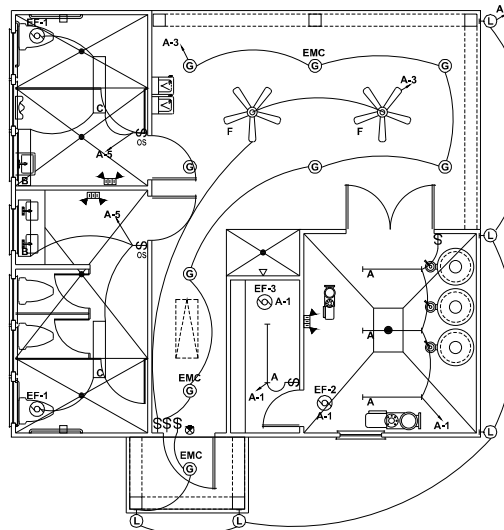
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SCALE: 1/4" = 1'-0" FOR 24x36 PAGES, NOT TO SCALE FOR 11x17 PAGES, OR AS NOTED.



ELECTRICAL FLOOR PLAN - POWER

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



ELECTRICAL FLOOR PLAN - LIGHTING

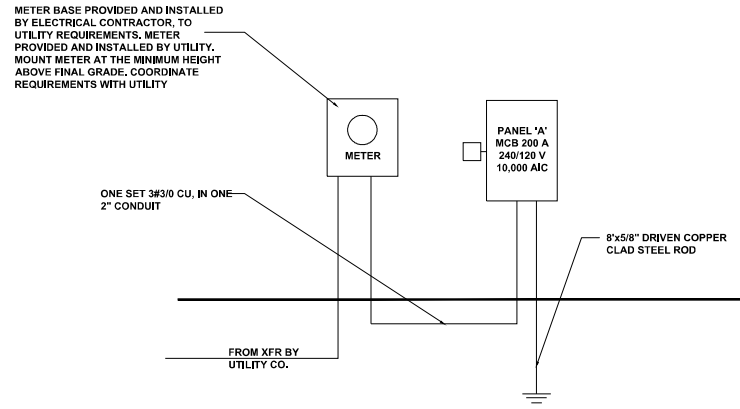
SCALE: 1/4" = 1'-0"

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

E1.0

PANEL A				ENCLOSURE TYPE: NEMA 3R							
VOLTAGE (L-N): 120				MOUNTING: SURFACE							
VOLTAGE (L-L): 240				AIC RATING: 22000							
PHASES, WIRES: 1 Ø, 3 W				NOTES: ---							
MINIMUM BUS CAPACITY (A): 200 A											
MAIN C.C. DEVICE (A): 200 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				POLE	TRIP AMPS	DESCRIPTION	CKT NO.
				A	B						
1	LIGHTING GENERAL	20	1	600	400			1	20	REC. MEN,WOMEN	2
3	LIGHTING EXTERIOR	20	1		400	600		1	20	REC. EXTERIOR, PUMP	4
5	LIGHTING RESTROOM	20	1	500	800			1	20	REC. EWC	6
7	POOL LIGHTS	20	1		700	800		1	20	HVAC: UH-1	8
9	POOL LIGHTS	20	1	700	800			1	20	HVAC: UH-1	10
11	POOL LIGHTS (FUTURE)	20	1		700	800		1	20	HVAC: UH-1	12
13	POLE LIGHTS	20	1	700	360			2	20	POWER CENTER	14
15	SPACE	-	1		0	360		2	20	POWER CENTER	16
17	SPACE	-	1	0	360			1	20	EASY TOUCH	18
19	WH-1	35	2			3000	0	1	-	SPACE	20
21				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				3200	0			1	-	SPACE	34
35	SHUNT TRIP				0	0		1	-	SPACE	36
37	POOL PUMP	40	2	3100	0			1	-	SPACE	38
39					3100	0		1	-	SPACE	40
41	SHUNT TRIP			0	0			1	-	SPACE	42
				CONNECTED LOAD PHASE TOTALS (KVA)							
				15120	14060			DEMAND LOAD		31.88 KVA	
								SPARE CAPACITY		16.12 KVA	
								SPARE CAPACITY		67.0 AMPS	
								SPARE CAPACITY		33%	
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)			
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" MARNER SERIES OUTDOOR WHITE CEILING FAN WITH PENDANT MOUNT WHERE REQ. COORD. MOUNTING HEIGHT WITH OWNER	
G	LITHONIA	AF 2 18TRT 6AR 120	RECESSED	2	CF 18W TRT	36	120	6" NOMINAL APERTURE RECESSED DOWNLIGHT WITH CLEAR ALZAC REFLECTOR, DAMP LABEL WHERE APPLICABLE	
L	SEAGULL	8920-12	SURFACE	1	CF 22W QIAD	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

PROJ: 23092104

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105 Commons Place, 6th Floor, Raleigh, NC 27604-4000
 919-876-7800 | www.jdsconsulting.com
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CLIENT: **MATTAMY HOMES**

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

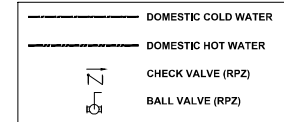
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PROJECT NO. 23902104	
DATE: 09/13/2023	DRAWN BY: NWS
ELECTRICAL SCHEDULES	
E1.1	

PLUMBING ABBREVIATIONS

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



P-001

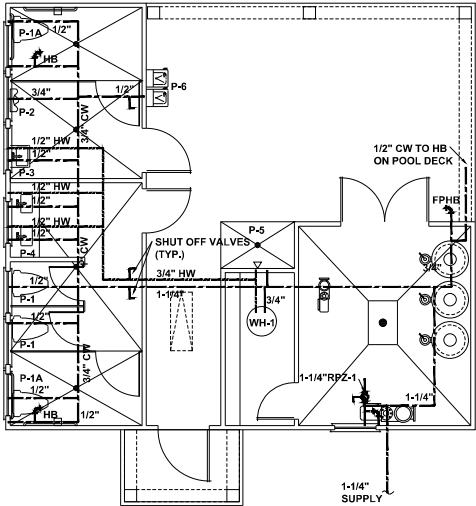
PLUMBING NOTES

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% 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 TO BE EQUIPPED WITH WATER HAMMER ARRESTORS AS PER PLUMBING CODE 604.9. ARRESTORS ARE EXEMPT IF PLASTIC PIPE USED, PC 604.9 PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY.
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 ENVELOPE, SHALL BE INSULATED TO A MINIMUM OF R-5 WITHOUT EXCEPTION. ALL PLUMBING LOCATED IN WALL SHALL BE ON WARM SIDE OF INSULATION.

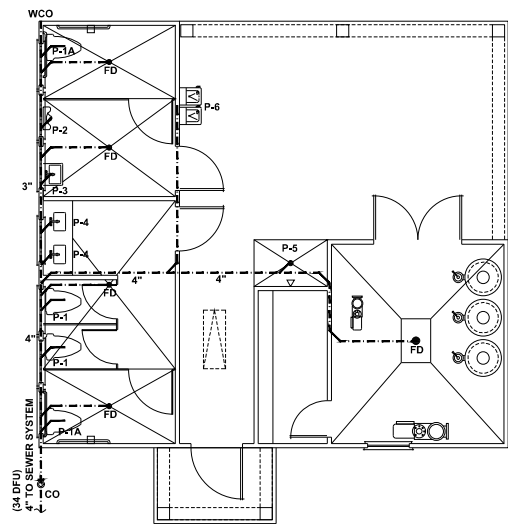
MATERIAL SPECIFICATIONS

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

SYMBOL	FIXTURE	TYPE	MANUFACT.	MODEL	MATERIAL	STYLE	FAUCET/WALVE				DRAIN		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 165	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 165	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID AT ADA HEIGHT	
P-2	URNAL	FLUSH VALVE	AMERICAN STANDARD	6541.132	VITREOUS CHINA	ADA ELONGATED	SLOAN ROYAL 186-ADA	-	-	-	-	-	3"	1-1/2"	3/4"	-	WALL	MOUNT AT REQUIRED ADA HEIGHT	
P-3	LAVATORY	WALL HUNG	AMERICAN STANDARD	355.812	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 COMPT	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	VRCLFR88C	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, 1.38 GPM REC AT 90F RSE, DRAIN PAN, SET TO 105F	
FD	FLOOR DRAIN	SQUARE TOP	J.R.SMITH	2010	PVC	NKALOV	-	-	-	-	-	-	-	-	-	-	-	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



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



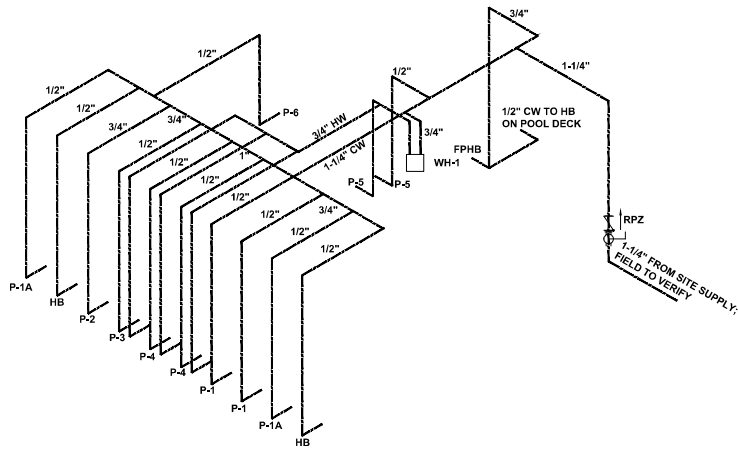
WASTE PLAN
 SCALE: 1/4" = 1'-0"

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 ENGINEERS • DESIGNERS • ARCHITECTS
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
 PHONE: 919.487.1111 FAX: 919.487.1112
 WWW.JPSCONSULTING.COM

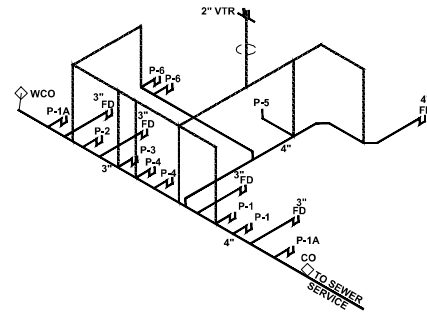
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 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

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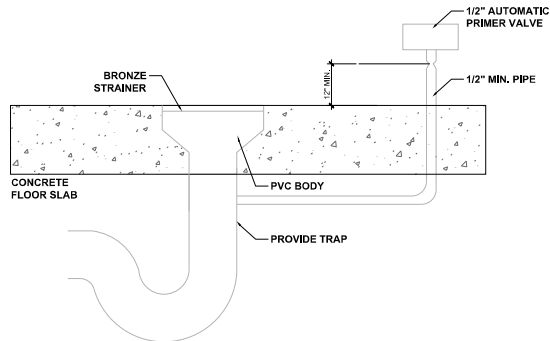
PLUMBING PLANS
P1.0



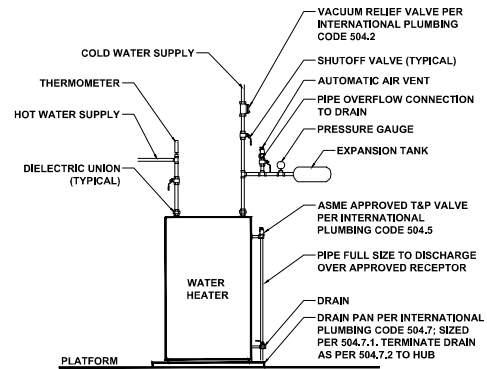
DOMESTIC WATER SUPPLY RISER



SS RISER



FLOOR DRAIN DETAIL



TYPICAL WATER TANK HEATER DETAIL



P-061

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JPS Consulting, Inc. 501 PO BOX 100, RALPH, NC 27153-0100
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PROJECT:	PROVINCE CREEK AMENITY CENTER & POOL
ADDRESS:	196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
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PLUMBING NOTES AND DETAILS

P1.1

POOL PIPING NOTES

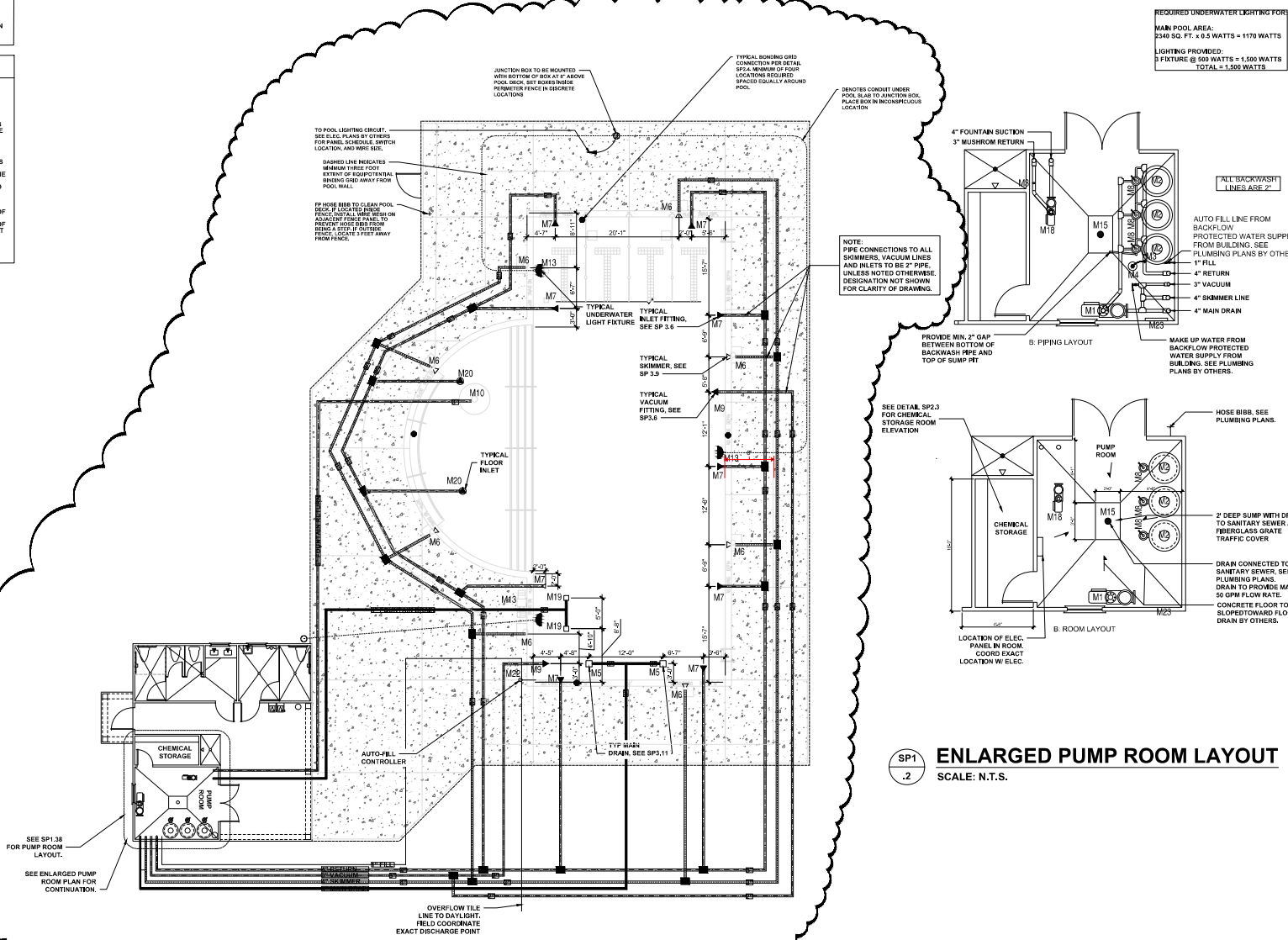
- WHERE PIPES RUN UNDER FOOTINGS - PROVIDE SCHEDULE 40 PIPE, 1/2" DIA. TOP, 3/4" C.I. BELOW TO BE CONNECTED TO MFL REQUIREMENTS FOR FOUNDATION SYSTEM.
- ALL PIPES TO BE SCHEDULE 40 PVC.
- PIPE CONNECTIONS TO SKIMMERS, VACUUM LINES AND RETURN LINE TO BE MADE WITH 90° ELBOWS.
- PROVIDE 1" CLEAR OVER OPENINGS TO RUN TO DAYLIGHT OUTSIDE OF POOL DECK ENCLOSURE.
- ALL PIPE RUNS ARE SCHEMATIC RUN PIPE TO MINIMIZE TRENCHING/EXCAVATION.
- ALL FITTINGS TO BE MARKED DESIGNATING FLOW DIRECTION AND IDENTITY.

GENERAL NOTES - ELECTRICAL

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

PUMP FLOW PIPE SIZE BASIS "DESIGN FLOW RATE"

OUTDOOR POOL: 2000 GPM FLOW AT 65 FEET OF WATER IS 200 GPM WITH SPECIFIED 4" MAIN DRAIN, SKIMMER LINES, AND RETURN PIPING VELOCITIES ARE AT 5.0 FPS.
 FEATURE PUMP: WFE-12 PUMP FLOW AT 65 FEET OF WATER IS 150 GPM WITH SPECIFIED 4" MAIN DRAIN VELOCITY IS AT 5.0 FPS AND 3" RETURN PIPING VELOCITIES AT 6.4 FPS.



SP1 PIPING AND LIGHTING LAYOUT
 SCALE: 1/8" = 1'-0"

SP1 ENLARGED PUMP ROOM LAYOUT
 SCALE: N.T.S.

4



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 919-876-7200
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POOL PIPING LAYOUT

SP1.0

CHEMICAL STORAGE NOTES

CHEMICAL STORAGE REQUIREMENTS FOR THE POOL AS IS FOLLOWING:
 5.0 FT FOR FIRST 1000 GALLONS OF POOL FLUID
 5.0 FT FOR EACH ADDITIONAL 1000 GALLONS
 UP TO 100 SQ FT OF STORAGE
 5.0 FT FOR FIRST 10,000
 2.0 FT FOR EACH ADDITIONAL 10,000
 2.0 FT FOR FIRST 100,000
 2.0 FT FOR EACH ADDITIONAL 100,000
 CLUBHOUSE PROVIDES 45.0 SQ FT FOR CHEMICAL STORAGE

POOL DECK OCCUPANCY REQUIREMENTS

- TOTAL POOL DECK AREA IS 4,996 SF. 8' MINIMUM UN-OCCUPIABLE AREA AROUND THE POOL IS 2,116 SF.
 GROSS POOL DECK FOR OCCUPANCY EXIT REQUIREMENTS IS 4,996 - 2,116 = 2,880 SF.
 - DECK IS 2,880 SF AT 15 SF PER PERSON. DECK OCCUPANT LOAD IS 192.
 - COVERED AREA IS 421 SF. AT 15 SF PER PERSON, COVERED AREA OCCUPANT LOAD IS 28.
 - POOL AREA IS 2,869 SF. AT 50 SF PER PERSON, POOL OCCUPANT LOAD IS 60.
 - TOTAL OCCUPANT LOAD OF 239'0.2 EQUAL 56' OF EXT REQUIRED, MIN OF 88' SHOWN ON PLAN.
 - REQ'D EXIT SEPARATION EQUALS 12' DIAGONAL, OR 61' 173'4" 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 = 386 / 15 = 188
 - BATHHOUSE REQUIREMENTS:
 - 99 MEN, MIN FIXTURES REQUIRED ARE
 - ONE LAVATORY
 - ONE URINAL
 - ONE WATER CLOSET
 - 99 WOMEN, MIN FIXTURES ARE
 - TWO LAVATORIES
 - TWO WATER CLOSETS
 - 2 SHOWERS ARE REQUIRED

MAIN POOL DATA	
POOL DIMENSIONS:	31'-2"x75'-1" w/ 20' RADIUS SEMI-CIRCLE
POOL DEPTHS:	9'-5"-0"
POOL VOLUME:	73,261 GALLONS
SURFACE AREA:	2,968 SF
PERIMETER:	235 LF
COPING:	CAST-IN-PLACE W/ BULLNOSE
MIN. FLOW RATE:	204 GPM
DESIGN FLOW RATE:	220 GPM
CONSTRUCTION:	CONCRETE
FINISH:	NON-SLIP WHITE PLASTER
BATHER LOAD:	158 BATHERS
MAIN DRAINS:	(2), 4" MAIN DRAIN LINE
INLETS:	11 REG 4" MAIN RETURN LINE
SKIMMERS:	8, 4" MAIN SKIMMER LINE
FILTER, TYPE:	HIGH RATE SAND
FILTER SIZE, PROY:	(3) 84x21 SF, 1473 SF TOTAL
FILTER SIZE, REQ'D:	13.57 SF TOTAL
MEDIA, CONC. RATE:	15 GPM/SF
BACKWASH RATE:	15 GPM/SF
TURNOVER RATE:	18 HOURS
BACKWASH TO:	SANITARY SEWER
FRESHWATER SOURCE:	IN-LINE, MANUAL FILL

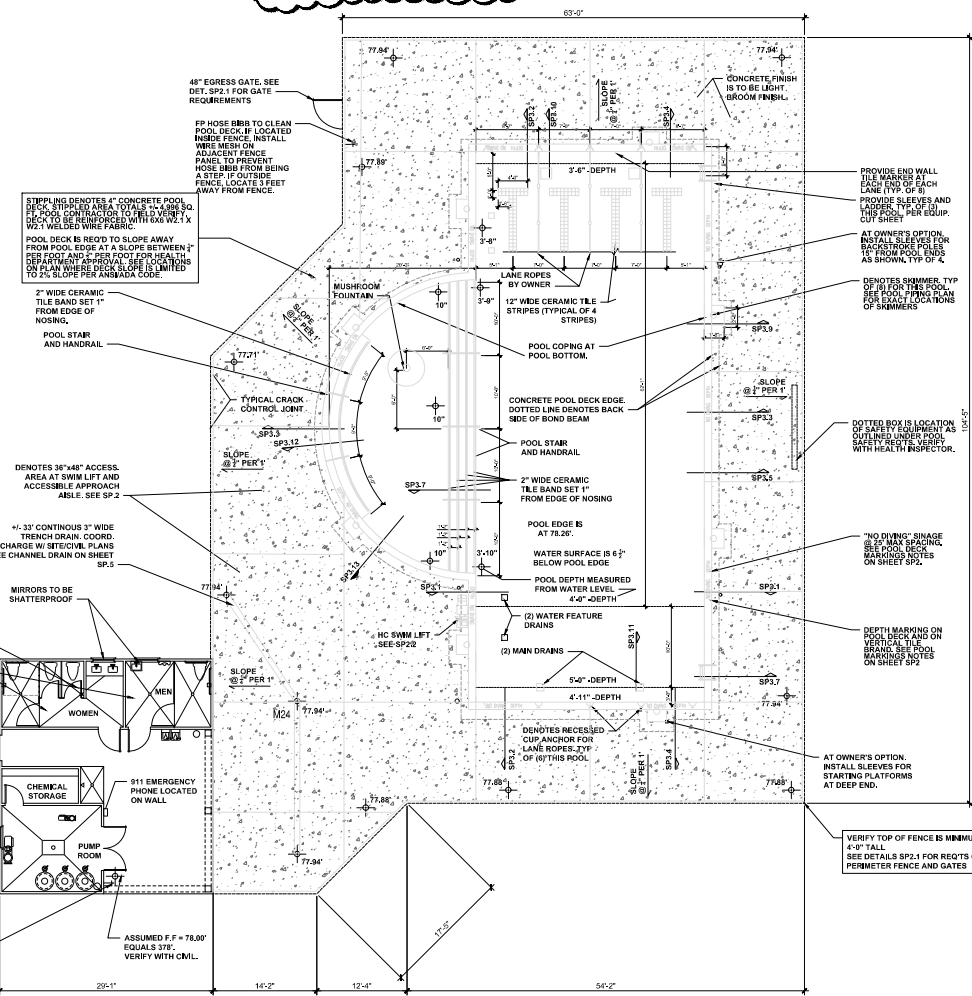
PROVIDE SIGN STATING "WARNING NO LIFEGUARD ON DUTY" SEE POOL SIGN REGTS SIGN "A"

PROVIDE SIGN STATING THAT NO DIVING IS ALLOWED IN POOL AREA. SEE POOL SIGN REGTS, SIGN "B"

PROVIDE SIGN FOR SHOWERING REGTS, SEE POOL SIGN REGTS, SIGN "C"

CONCRETE DECK NOTES

- POOL DECK AREA IS 4,996 SF AND INCLUDES ONLY THE STIPLED AREA ON THE PLAN.
 - DECK ELEVATIONS ARE RELATIVE TO THE TOP OF DECK AT THE POOL EDGE. COORDINATION WITH THE SITE/CIVIL DRAWINGS 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 1/3 THE THICKNESS OF THE CONCRETE SLAB.



MAIN POOL EQUIPMENT SCHEDULE		
M1	5 HP, SELF-PRIMING PUMP W/ MATCHING STRAINER, 220 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER, NON VARIABLE SPEED.	PENTAIR - EQ500
M2	30" DIA., HIGH RATE SAND FILTER WITH 4.91 S.F. MEDIA	TRIOO
M3	FLOW RATE INDICATOR	BLUE-WHITE F70/U-300
M4	EROSION CHLORINATOR	PENTAIR HC 3315
M5	MAIN DRAIN - 14"x14" SLUMP AND COVER/GRATE W/ HYDROSTATIC RV	AQUASTAR 814xxx
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 1500-18
M11	POOL HANDRAIL, 4" LONG	SRSMITH DMS101-MG
M12	POOL LADDER, 3" RUNG	SRSMITH LP24-38-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	SR SMITH WFE-12
M16	BACKSTROKE FLUG ANCHOR	SELECTED BY OWNER
M17	HANDICAPPED LIFT	PENTAIR-MULTI-LIFT
M18	3HP FOUNTAIN PUMP W/ MATCHING STRAINER, 130 GPM @ 65 F. OF HEAD - PROVIDE A SPARE BASKET FOR STRAINER, NON VARIABLE SPEED.	ASA TPX 50-813-4
M19	12"x12" FOUNTAIN SLUMP AND COVER	AQUASTAR WAV12
M20	POOL FLOOR INLET	PENTAIR 08417
M21	POOL HANDRAIL, 4" LONG, TWO BEND	SRSMITH 2WR-4-MG
M22	AUTOMATIC WATER LEVEL CONTROLLER	PENTAIR 140-FW
M23	POOL CONTROL PANEL	PENTAIR EASYTOUCH 8
M24	DECK DRAIN	AQUASTAR DD3 3"
M25	HYDROSTATIC VALVE	AQUA HV 2"

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

SP1.1 SWIMMING POOL LAYOUT
 SCALE: 1/8" = 1'-0"



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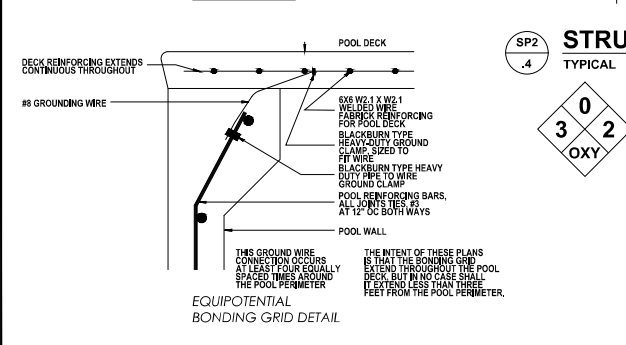
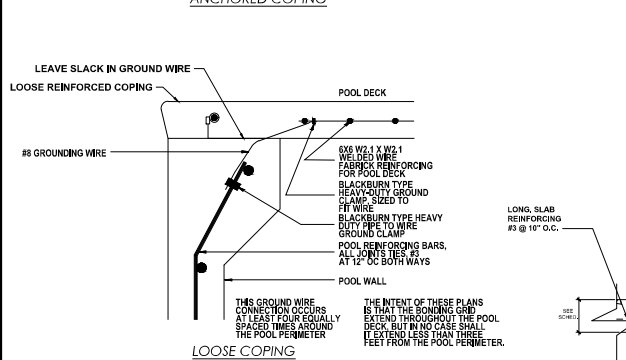
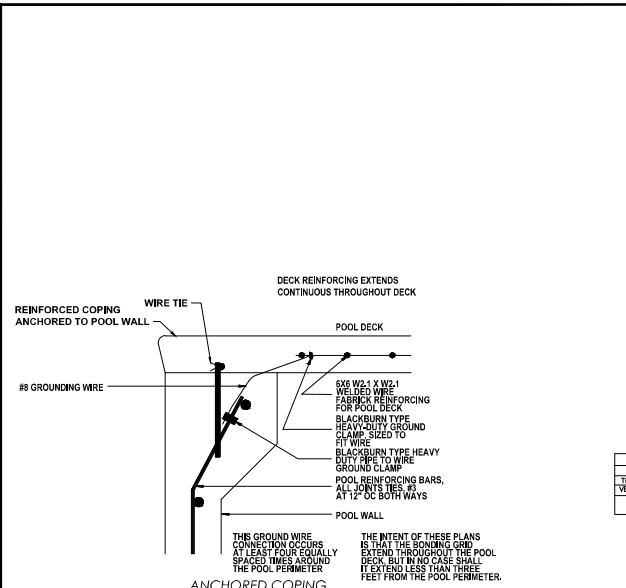
196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
 PHONE: 704.249.2499 FAX: 704.249.2498
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THIS CONTRACTOR HAS BEEN LICENSED BY THE STATE OF NORTH CAROLINA. THE CONTRACTOR HAS BEEN LICENSED BY THE STATE OF NORTH CAROLINA. THE CONTRACTOR HAS BEEN LICENSED BY THE STATE OF NORTH CAROLINA. THE CONTRACTOR HAS BEEN LICENSED BY THE STATE OF NORTH CAROLINA.

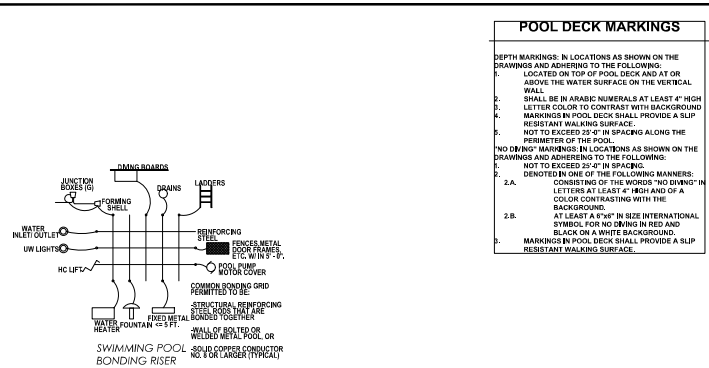
CLIENT: **MATTAMY HOMES**
 PROJECT: **PROVINCE CREEK AMENITY CENTER & POOL**
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

PROJECT NO: **23902104**
 DATE: **09/13/2023** DRAWN BY: **NWS**

POOL LAYOUT
SP1.1

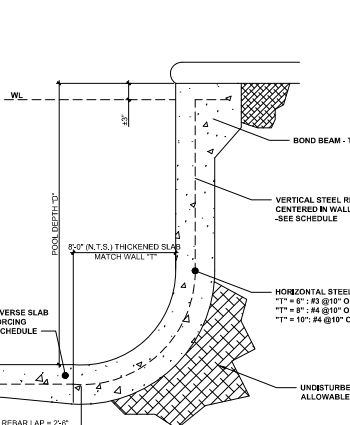


SP2 EQUIPOTENTIAL BONDING GRID DETAIL
NOT TO SCALE

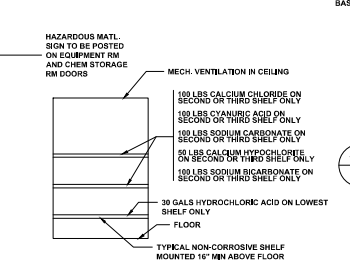


SP2 SWIMMING POOL BONDING RISER
NOT TO SCALE

DEPTH OF THICKNESS	VERTICAL STEEL	SLAB
5'-4\"/>		



SP2 STRUCTURAL POOL SECTION
TYPICAL NOT TO SCALE



SP2 CHEMICAL STORAGE ROOM ELEVATION
SCALE: NTS

POOL DECK MARKINGS

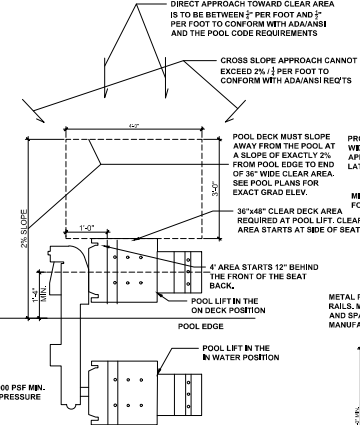
DEPTH MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:
 1. LOCATED ON TOP OF POOL DECK AND AT OR ABOVE THE WATER SURFACE ON THE VERTICAL WALL.
 2. SHALL BE IN ARABIC NUMERALS AT LEAST 4\"/>

POOL SIGNAGE REQUIREMENTS

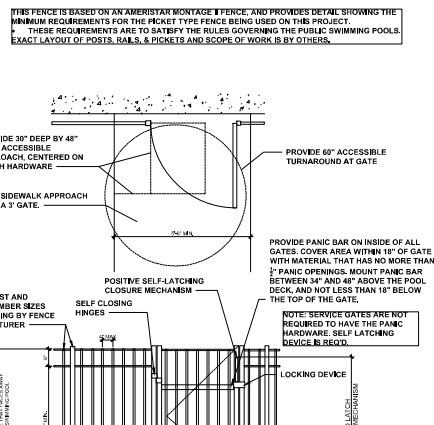
POOL SIGNAGE:
 SIGN "A" - 4\"/>

POOL SAFETY REQUIREMENTS

PROVIDE SAFETY PROVISIONS PER SECTION 2530, THE MINIMUM BEING:
 OUTDOOR POOL REQUIREMENTS:
 A. (2) 12\"/>



SP2 SWIM LIFT INST. DETAIL
SCALE: NTS



SP2 GATE AND FENCE DETAIL
SCALE: NTS

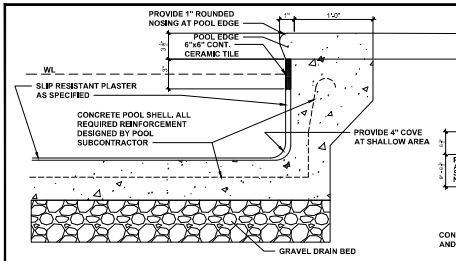


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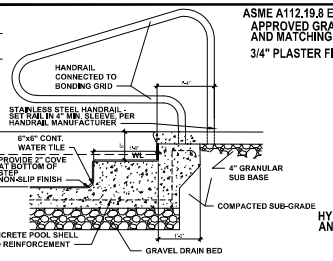
196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526
 919.286.7666
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MATTAMY HOMES
 PROJECT: PROVIDENCE CREEK AMENITY CENTER & POOL
 196 PROVIDENCE CREEK DRIVE, FUQUAY-VARINA, NC 27526

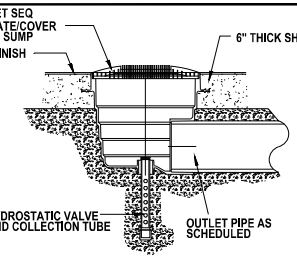
PROJECT NO. 23902104
 DATE: 09/13/2023 DRAWN BY: NWS
 SECTIONS & DETAILS
SP.2



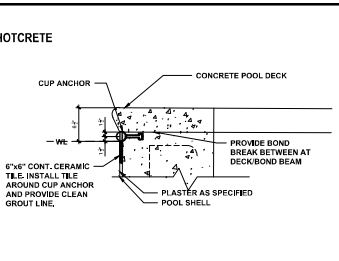
SP3 WALL SECTION
SHALLOW WATER SCALE: NTS
.13



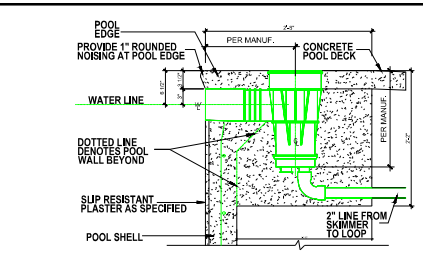
SP3 SHALLOW POOL WALL SECTION
SCALE: NTS
.12



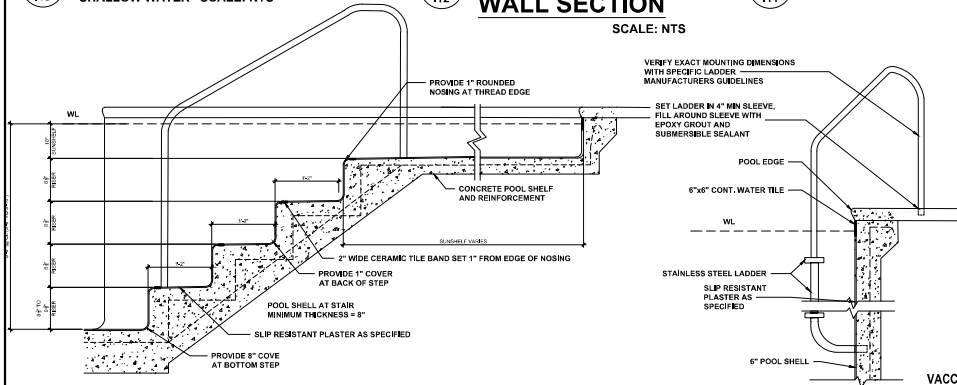
SP3 MAIN DRAIN DETAIL
SCALE: NTS
CONCRETE POOL DECK
.11



SP3 CUP ANCHOR DETAIL
SCALE: NTS
.10

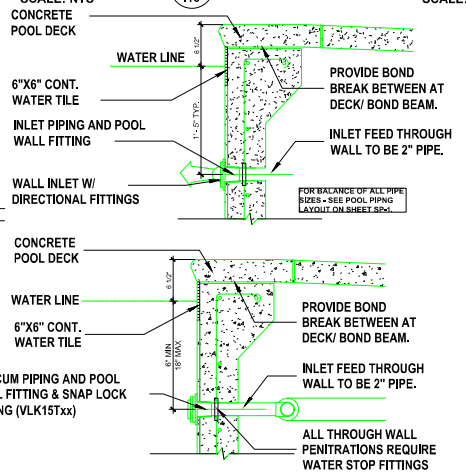


SP3 DETAIL - POOL SKIMMER
SCALE: NTS
.9

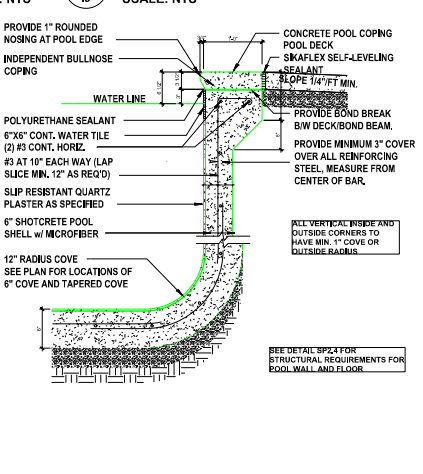


SP3 POOL STAIR DETAIL
SCALE: NTS
.8

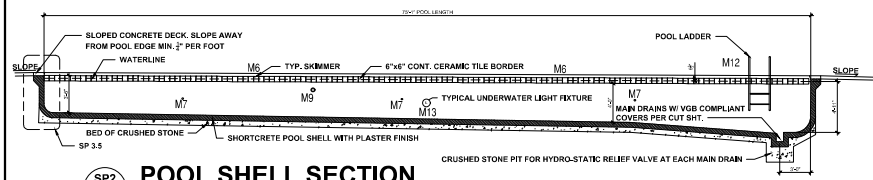
SP3 LADDER DETAIL
SCALE: NTS
.7



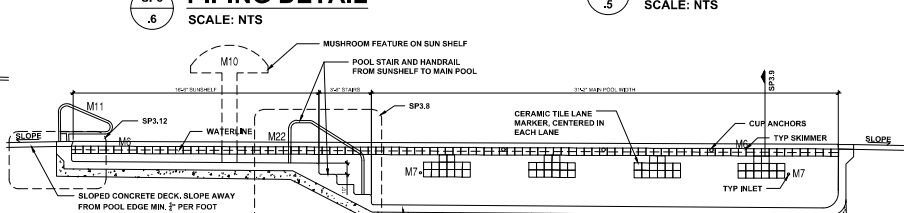
SP3 PIPING DETAIL
SCALE: NTS
.6



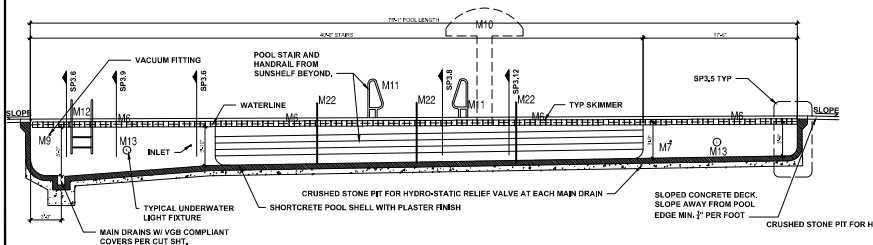
SP3 TYP. POOL WALL SECTION
SCALE: NTS
.5



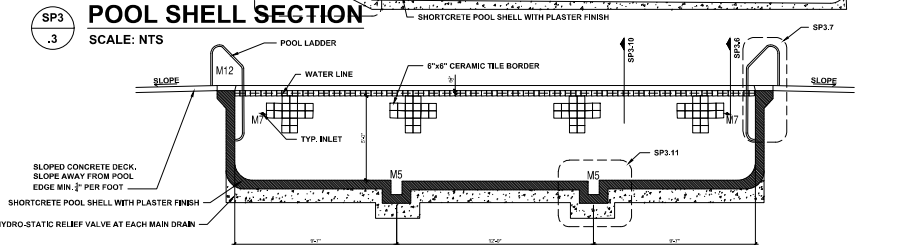
SP2 POOL SHELL SECTION
SCALE: NTS
.4




SP3 POOL SHELL SECTION
SCALE: NTS
.3



SP3 POOL SHELL SECTION
SCALE: NTS
.2



SP3 POOL SHELL SECTION
SCALE: NTS
.1



PROJECT NO. 23902104
DATE: 09/13/2023
DRAWN BY: NWS

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

SECTIONS & DETAILS
SP.3

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

CONTRACTOR SHALL BE NOTIFIED FOR CHANGES MADE TO PLANS BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

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