CAMPBELL POOL ENTRY PAVILION AND POOL AREA IMPROVEMENTS

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INDEX OF DRAWINGS

COVER SHEET

ARCHITECTURAL

GENERAL PROJECT INFORMATION SITE PLAN FLOOR PLAN PAVILION EXTERIOR ELEVATIONS PAVILION BUILDING SECTIONS FINISH SCHEDULE + WALL TYPES DETAILS

LANDSCAPE

LANDSCAPE GENERAL NOTES LANDSCAPE GENERAL NOTES LANDSCAPE PLAN

MECHANICAL

MECHANICAL SYMBOLS LEGEND FLOOR PLAN - MECHANICAL MECHANICAL DETAILS

ELECTRICAL

ELECTRICAL SYMBOLS LEGEND AND SPECIFICATIONS SITE PLAN- ELECTRICAL FLOOR & CEILING PLANS - ELECTRICAL ELECTRICAL SCHEDULES

STRUCTURAL

GENERAL STRUCTURAL NOTES PLANS AND SECTIONS DETAILS

SHEET

A0.1

A0.2 A1.1	PROJECT LOCATION —
A2.1 A3.1 A4.1 A6.4 A9.1	
L1.0 L1.01 L1.1	MCLEOD BETMUNE BLUE MCLEOD BETMUNE BLUE MITERUN TONNA SPIEDNIN
M001 M201 M801	
E001 E101 E201 E701	And Contract And Contract
S-001 S-101 S-501	SCALE: NTS

THE CITY OF DAYTONA BEACH



PUBLIC WORKS DEPARTMENT TECHNICAL SERVICES

950 BELLEVUE AVENUE DAYTONA BEACH, FL 32114

P 386 671 8610 F 386 957 6404

BRENT COHEN, ARCHITECT FL LICENSE # AR93854

ISSUE	DATE
BID SET	4.7.20

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GENERAL NOTES

GENERAL

1. ALL WORK TO BE PROVIDED BY CONTRACTOR UNLESS IT IS SPECIFICALLY NOTED TO BE DONE BY OTHERS.

SAFETY

CODES: CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN FORCE AT THE TIME OF CONSTRUCTION.

WORK PRACTICES

- 1. MATERIALS: ALL MATERIALS ARE ASSUMED TO BE NEW (U.O.N.).
- SUBCONTRACTOR COORDINATION: CONTRACTOR IS 2. **RESPONSIBLE FOR COORDINATION OF THEIR** SUBCONTRACTORS AND FOR THE SCHEDULING + COORDINATION OF WORK INDICATED ON THE DRAWINGS TO BE DONE BY OTHERS.
- 3. LAYOUT: CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES DISCOVERED.
- 4. SERVICE SHUTDOWNS: CONTRACTOR TO NOTIFY THE OWNER & LANDLORD (48) HOURS IN ADVANCE OF SERVICE SHUTDOWNS. CONTRACTOR TO OBTAIN THE OWNER AND LANDLORD'S PERMISSION TO SHUTDOWN ANY BUILDING SERVICE.
- 5. SITE CLEANING: CONTRACTOR TO CLEAN PREMISES AND REMOVE DEBRIS ON A REGULAR BASIS.
- 6. UNEXPECTED CONDITIONS: CONTRACTOR TO NOTIFY ARCHITECT OF ANY CONDITIONS WHICH ARE UNCOVERED WHICH DIFFER FROM WHAT IS SHOWN ON THESE DRAWINGS.
- 7. CONTRACTOR TO COMPLY WITH LANDLORD WORK RULES

DRAWING SPECIFICITY

- 1. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY NAIL, SCREW, BOLT AND CONNECTION ETC. REQUIRED TO INSTALL A GIVEN ITEM. THE CONTRACTOR IS TO MAKE REASONABLE ASSUMPTIONS AS TO MISCELLANEOUS ITEMS WHICH ARE REQUIRED TO INSTALL ITEMS NOTED ON THESE DRAWINGS.
- 2. CONTRACTOR TO PROVIDE NECESSARY BACKING, BLOCKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL FIXTURES AND OTHER ITEMS REQUIRING SAME.
- 3. DIMENSIONS: HORIZONTAL DIMENSIONS ARE FROM FINISHED SURFACE TO FINISHED SURFACE U.O.N. VERTICAL DIMENSIONS ARE FROM TOP OF SLAB U.O.N. DRAWINGS ARE NOT TO BE SCALED.
- 4. NOT ALL SYMBOLS SHOWN ARE USED.

PROJECT DATA

PROJECT ADDRESS **409 SCHOOL STREET** DAYTONA BEACH, FL 32114

PARCEL NUMBER 5339-80-01-0010 LEGAL DESCRIPTION A PORTION OF SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST, LYING IN VOLUSIA COUNTY, FLORIDA.

PROJECT DESCRIPTION ADDITION OF AN ENTRY BUILDING WITH ASSOCIATED RAMP AND STAIR ACCESS TO THE EXISTING POOL FACILITY. PROJECT ALSO INCLUDES THE EXPANSION OF THE EXISTING POOL DECK WITH NEW SHADE STRUCTURES AND TABLES.

AUTHORITY HAVING JURISDICTION CITY OF DAYTONA BEACH

ZONING R1B

CONSTRUCTION TYPE TYPE-IIB (ENTRY BUILDING)

MAX BUILDING HT 35 FEET

OCCUPANCY TYPE GROUP U FOR BUILDING

OCCUPANT LOAD PER TABLE 1004.1.2 OF THE 2017 FBC (BUSINESS AREA = 100 SF PER OCCUPANT)

100SF PER OCCUPANT FOR ENTRY PAVILION 165/100 =2 OCCUPANTS

EXCEPTION 1004.2 INCREASED OCCUPANT LOAD IS TAKEN.

POSTED OCCUPANT LOAD OF BUILDING TO BE 2.

REQUIRED EXITS PER TABLE 1006.2.1, 1 EXIT REQUIRED PER 49 OCCUPANTS FOR GROUP U OCCUPANCY. 1 EXIT PROVIDED.

FIRE-PROTECTION

N/A

PROJECT AREAS

TOTAL AREA OF NEW WORK = 165 SF (NEW ENTRY BUILDING) ASSOCIATE SITE WORK (RAMPS / STAIRS / SLABS ARE PER PLANS)

ENERGY & ENVELOPE INFORMATION ALL NEW CONSTRUCTION OF CONDITIONED SPACE TO COMPLY WITH THE FLORIDA BUILDING CODE ENERGY CODE 2017 EDITION.

REFER TO MEP SHEETS FOR ENERGY CODE COMPLIANCE.

APPLICABLE CODES

OCCUPANCY CLASSIFICATION (SECTION 302 / 307)
GROUP U	
ALLOWABLE HEIGHT AND BUILDING AREA (TABLE	506.2)
GROUP U , NS, IIB , ALLOWABLE AREA IS 8,500 SF	
8,500 SF > 165 SF = OK	
TYPE OF CONSTRUCTION (SECTION 602)	
TYPE IIB	
BUILDING AREA TABULATION:	
PROPOSED PAVILION	= 165 S.F.
TOTAL	= 165 S.F.

PROJECT TEAM

OWNER CITY OF DAYTONA BEACH

ARCHITECT BRENT COHEN 950 BELLEVUE AVENUE P.O. BOX 2451 DAYTONA BEACH, FL 32115-2451 PHONE: (386) 671-8617 COHENB@CODB.US E-MAIL: ATTN: BRENT COHEN

STRUCTURAL ENGINEER GRAEF 2300 MAITLAND CENTER PARKWAY MAITLAND, FL 32751 PHONE: (407) 659-6500

MEP ENGINEER SGM ENGINEERING 935 LAKE BALDWIN LN ORLANDO, FL 32814 PHONE: (407) 767-5188

GENERAL CONTRACTOR TBD

APPLICABLE CODES FOR: STATE OF FLORIDA

• FLORIDA BUILDING CODE, 2017 EDITION

 NATIONAL ELECTRICAL CODE, 2011 EDITION • FLORIDA ACCESSIBILITY CODE, 2017 EDITION

COMPLIANCE STATEMENT:

PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2017 FLORIDA BUILDING CODE EDITION

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GRAPHICS



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- RETAINING WALL, FLUSH WITH POOL DECK SURFACE REPAIR / REPLACE EXISITNG POOL DECK AS NEEDED FOR FINISHED AND FLUSH SURFACES TO THE NEW RETAINING





A1.1

THE CITY OF DAYTONA BEACH

	DOOR SCHEDULE FIRST FLOOR							
	TYPE	DOOR						REMARKS
Mark		WIDTH	HEIGHT	MAT'L	FINISH	MANUF. NUMBER WHEN APPLICABLE	HARDWARE GROUP	-EXTERIOR STOREFRONT DOORS -EXTERIOR DOORS MANUFACTUR -REFER TO ELEVATIONS FOR MUN
1ST F	LOOR							
101	STOREFRONT	3'-0"	8'-0"	STOREFRONT	ANODIZED	YKK OR EQUAL		TRANSOM WINDOW ABOVE / IMPA / THUMBTURN STYLE DEADBOLT /
102	GATE	3'-0"	6'-0"	FENCE	BLACK VINYL			SELF CLOSING HINGES AND MAGN
103	GATE	3'-0"	6'-0"	FENCE	BLACK VINYL			SELF CLOSING HINGES AND MAGE





REFLECTED CEILING PLAN NOTES (RCP)

GENERAL 1. ALL CEILINGS ARE SLOPED, REFER TO SECIONTS

2. GYPSUM BOARD CEILINGS ARE PLASTER OVER BLUE BOARD
 3. PLYWOOD SOFFIT IS CENTERED AS SHOWN, ATTACHED WITH S.S. FINISH NAILS

RCP ISSUES RELATED TO MECH., PLUMBING, AND ELEC. 1. ARCHITECTURAL RCP TO TAKE PRECEDENCE OVER ELECTRICAL LIGHTING PLANS IN TERMS

OF LIGHT FIXTURE PLACEMENT. 2. HVAC DIFFUSERS + GRILLS TO BE WHITE

RCP LEGEND



GYPSUM BOARD CEILING

BE MANUFACTURED BY YKK RER TO MATCH WINDOW MANUFACTURER NTIN PATTERNS ACT RATED/ 9" "D" STYLE PULL HANDLES BOTH SIDES / CYLINDER KEYED TO CITY SPECS BY GC NA LOCK LATCH NA LOCK LATCH

V	VINDC)W SC	HEDULE	FIRST F	LOOR				
FRAME SIZE (U.O.N.)			TYPE	MANUFACTUR	ER	REMARKS			
Mark	WIDTH	HEIGHT	MATERIAL	INTERIOR FINISH	EXTERIOR FINISH		NUMBER	INSECT SCREENS	-LOW-E GLAZING -ALL WINDOWS ARE TO BE IMPACT RATED
А	3'-4"	6'-8"	ALUMINUM	ALUMINUM	ALUMINUM	STFRNT.	YKK YOW 225H OR EQUAL		PICTURE WINDOW WITH PERF. ALUMINUM PANEL PER ELEV.
В	6'-2"	+/- 8'-0"				STFRNT.	YKK YHS 50FS OR EQUAL		TOP OF WINDOW TO FOLLOW SLOPING CEILING
С	8'-4"	6'-8"				STFRNT.	YKK YOW 225H OR EQUAL		12" x 48" SLIDING TRANSACTION WINDOW PER ELEVATIONS
D	2'-6"	6'-8"				STFRNT.	YKK YHS 50FS OR EQUAL		TRANSOM WINDOW ABOVE, SEE ELEVATION. LOWER UNIT TO HAVE STEEL PLATE PAINTED IN LIEU OF GLASS TO MATCH OTHER SPANDREL GLAS
Е	6'-8"	6'-8"				STFRNT.	YKK YHS 50FS OR EQUAL		
				1 542	,		,		

DOOR / WINDOW SCHEDULE NOTES

1. EXTERIOR DOOR AND WINDOW THICKNESS PER PRODUCT APPROVAL

2. REFER TO ELEVATIONS FOR STOREFRONT LAYOUT

3. COORDINATE DIMENSIONS SHOWN ABOVE WITH MANUFACTURERS DIMENSION REQUIREMENTS.

4. G.C. TO COORDINATE DOOR HARDWARE SPECIFICATIONS WITH ARCHITECT

- 5. GENERAL CONTRACTOR AND WINDOW / DOOR SUPPLIER TO VERIFY A LL QUANTITIES AND PROVIDE SHOP DRAWINGS PRIOR TO ORDERING / FABRICATION
- 6. WINDOWS AND DOORS TO HAVE SAFETY GLAZING IN HAZARDOUS AREAS PER FBC 2406.4 AS REQUIRED
- 7. SUBMIT SHOP DRAWINGS OF ALL WINDOWS PRIOR TO MANUFACTURING

1/2" BLUE BOARD AND PLASTER CEILING FINISH. LEVEL 5 FINISH ON CEILING, PAINT PER FINISH

3/4" X 5" CLEAR CEDAR T & G PLANKING OVER FURRING. OIL BASED POLYURETHANE FINISH BY ARCHITECT FASTEN WITH PIN

SURFACE MOUNTED 1X4 LED FIXTURE PER FIXTURE SCHEDULE ON ELECTRICAL SHEETS, CENTER IN ROOM AND WINDOW AS SHOWN





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VINYL LETTERING	
8" BOX GUTTER	-[
SAND COAT STUCCO	POOL HOURS
PIN MOUNTED 4" LETTERING	CAMPBELL AQUATIC CENTER
1 1/4" PIPE RAILING PER DETAILS ON	
SHEET A3.4	
SPANDREL GLASS, COLOR V948 BY VIRACON OR EQUAL	

NEW BLACK VINYL 6' CHAIN LINK FENCING ON THIS FENCING RUN

MOUNTED LETTERS BY MODERN HOUSE NUMBERS OR EQUAL. LETTERS MOUNTED ON POUR IN PLACE WALL /

BLACK VINYL "TIGHT MESH" CHAIN LINK FENCING TO BE INSTALLED (CORE DRILLED POSTS) ON TOP OF RAMP

DRAWINGS FOR APPROVAL PRIOR TO FABRICATION (4 PIECES AS SHOWN) (PANELS PRIMED AND PAINTED WITH AIRLESS SPRAYER FOR AN AUTOMOTIVE TYPE

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- 7" MIN. SPRAY CLOSED CELLFOAM INSULATION BETWEEN JOISTS. SEE MEP SHEETS FOR FOAM SPECIFICATIONS

-LINEAR SUPPLY DIFFUSER PER MEP

-1/2" GYPSUM BOARD OVER FURRING. R5.7 MIN **RIDGID INSULATION BETWEEN FURRING** (TYPICALL ALL INTERIOR CMU WALLS) -DRYWALLSOFFIT ABOVE REF.

- KERF DESIGN OR EQUAL 3/4" EUROPLY OPEN CUBBY CASEV ADJUSTABLE SHELVES, SUBMIT SHOP DRAWINGS FOR APPF WITH BLUM SOFT CLOSE HARDWARE, ONE TALL CABINET WI BLUM HARDWARE. CIRCLE VOID FINGER PULL AS SHOWN (C PLAM FRONT AS SHOWN) - 1/2" PAINTED ALUMINUM PANELS OVER ALUMINUM FRAMING, SEE DETAILS ON

SHEET A9.1 FOR ATTACHMENT DETAILS

- 2 1/2" 16GA. FRAMING FOR PANELS.
- SUBMIT SHOP DRAWINGS FOR APPROVAL

-6" SIDEWALK PER SITE PLAN

-FOOTING PER STRUCTURAL

TUBE STEEL DESK SUPPORT PER DETAILS





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VINYL COATED CHAIN LINK CORE DRILLED

NOTE: CHAIN LINK ON TO BE TOP OF WALL FOR ENTIRE LENGTH OF RAMP RUN

6" CONCRETE SLAB / RAMP WALKING SURFACE **OVER COMPACTED / TREATED FILL**

POUR IN PLACE RAMP WALLS AND FOOTINGS PER

1 1/4" CONTINUOUS PIPE RAILING, CORE DRILL INTO SLAB EACH END AS SHOWN

6" SLAB PER PLANS

POUR IN PLACE CONCRETE STEPS PER STRUCTURAL (5 R @ 6",4 T @ 12") ADJUST RISER HEIGHT AS NEEDED IN FIELD ISSUE DATE BID SET 4.7.20

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COUNTER SURFACE SCHEDULE

MARK	MANUFACTURER	PRODUCT/DESCRIPTION	QUANTITY	FINISH / COLOR	REMARKS
SS-1	SILESTONE	QUARTZ 1.2 CM	AS NEEDED	POLISHED (ICONIC WHITE)	POLISHED WITH A BASIC EASED EDGE @ TOP INTERACTION POINT, ALL SQUARE EDGES OTHERWISE

APPLIANCE SCHEDULE

MARK	MANUFACTURER	PRODUCT/DESCRIPTION	QUANTITY	FINISH	REMARKS
Τ	TRUE	T-19G-HC~FGD01	1	CLEAR	

KERFWALL SCHEDULE

MARK	MANUFACTURER	PRODUCT/DESCRIPTION	QUANTITY	FINISH	REMARKS
Α	KERF DESIGN	KERFWALL PANEL	AS NEEDED	MAPLE	SUMBIT DRAWINGS TO KERF DESIGNS FOR PRICING
В	KERF DESIGN	HOOKS	3	MAPLE	SUMBIT DRAWINGS TO KERF DESIGNS FOR PRICING
С	KERF DESIGN	7 SLOT SHELF	1	MAPLE	PLAM COLORS BY ARCHITECT
С	KERF DESIGN	7 SLOT BIG SLIDER	2	MAPLE	PLAM COLORS BY ARCHITECT

NOTE: BEFORE MOUNTING PLEASE CONTACT ARCHITECT FOR LAYOUT APPROVAL

SITE FURNISHING SCHEDULE

MARK	MANUFACTURER	PRODUCT/DESCRIPTION	QUANTITY	FINISH	REMARKS
Α	WASAU	TF-3212	8	G23 GRAY	ALL BENCHES AND TABLES TO BE FASTENED PER
В	LANDSCAPE FORMS	RING BIKE RACK	3	FLAMBE ORANGE	SPACE PER MANUF. RECOMMENDATIONS. COORD
С					

NOTE: BEFORE MOUNTING ANY SITE FURNISHING AND EQUIPMENT, PLEASE CONTACT ARCHITECT FOR LAYOUT APPROVAL

PAVILION FINISH SCHEDULE

LOCATION	PAINT COLOR	PRODUCT/DESCRIPTION
PAVILION TUBE STEEL COLUMNS / STEEL FASCIA	PT-1	DURATION MATTE (SHERWIN WILLIAMS)
PAVILION EXPOSED SOFFIT	PT-2	SATIN SHEEN
PAVILION INTERIOR WALLS / CEILING	PT-3	DURATION MATTE (SHERWIN WILLIAMS)
PAVILION EXTERIOR WALLS (STUCCO)	PT-4	DURATION MATTE (SHERWIN WILLIAMS)
PAVILION POWDER COAT PANELS	PT-5	POWDER COAT TO MATCH SW9055, PROVIDE SAMPLE

MATERIAL LEGEND NOTES:

PT-1	SHERWIN WILLIAMS DURATION IRON
PT-2	OSMO OIL CLEAR UV PROTECTION (S/
PT-3	SHERWIN WILLIAMS DURATION SNOW
PT-4	SHERWIN WILLIAMS DURATION SNOW
PT-5	POWDER COAT FINISH TO MATCH SH

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R MANUFACTURERS SPECIFICATIONS

DINATE EXACT INSTALLATION LOCATION WITH ARCHITECT



FASTEN PLYWOOD TO METAL STUDS WITH #10 S.S. SELF DRILLING WAFER HEAD SCREW WITH WINGS @ 12" O.C. EACH STUD

FASTEN ALUMINUM PANELS TO PLYWOOD WITH TAPERED HEAD #10 S.S. SHEET METAL SCREWS @ 24" O.C. EACH STUD (COUNTERSINK FOR A FLUSH FINISH) SCREW HEADS TO BE

PAINT / PRIMER TO BE APPLIED TO PANELS WITH AIRLESS SPRAYER IN A CONTROLLED

NOTE: SUBMIT SHOP DRAWINGS FOR ALL STEEL FABRICATION PRIOR TO PRODUCTION

SLIDING GLASS OPENING

GAP TO STOREFRONT. SUBMIT SHOP DRAWINGS FOR APPROVAL

ALIGN STOREFRONT HORIZONTAL WITH TRANSACTION COUNTER, SUBMIT SHOP

DRAWINGS FOR APPROVAL CONT. 1/4" THICK X 7 1/2" LONG

ALUMINUM PLATE OVER EACH BRACKET

1/4" SOLID SURFACE COUNTER, (SOLID SURF-1) OVER 3/4" PLY WOOD

(BRACKETS WELDED TO STEEL PLATE) 3 CUSTOM STEEL BRACKETS NOTCHED AS SHOWN FOR COUNTER SUPPORT, WELD TO STEEL PLATE, PAINT

TO MATCH BUILDING COLOR 6" x 6" x 1/4" STEEL PLATE @ EA. END, FIELD WELD TO STEEL PLATE SUPPORT EA. END PER STRUCTURAL

STEEL PLATE BEYOND PER WINDOW SCHEDULE AND NOTE ON FLOOR PLAN. WELD DESK ASSEMBLY TO THIS PLATE AND FINISH TO MATCH

OTHER SPANDREL GLASS NOTE: OTHER ENDS OF TUBE STEEL

TO BE SUPPORTED BY A 3"X4"X1/4" THICK ANGLE

1/4" THICK STEEL PLATE THIS WINDOW BAY FOR WELDING TRANSACTION COUNTER BRACKETS AS SHOWN







V RIB STANDING SEAM METAL ROOFING OVER ROOFING MEMBRANE OVER 5/8" CDX PLYWOOD OVER ROOF FRAMING PER STRUCTURAL (EXPOSED END FLASHING TO MATCH RIB HEIGHT / PROFILE (TYPCIAL)) P.T. BLOCKING

SAF BETWEEN BLOCKING AND FASCIA FLANGE (TYPICAL) C12 X 25 CHANNEL "FASCIA", ATTACH WITH COUNTERSUNK #8 TAPERED HEAD SELF TAPPING SCREWS @ 24" O.C. STAGGERED. MITRE, WELD, AND GRIND SMOOTH ALL 4 OUTSIDE CORNERS FOR SEAMLESS FINISH ONCE PAINTED ** PROVIDE "MOCK" UP OF FASCIA ASSEMBLY FOR APPROVAL CHANNEL AT PERIMETER TO ACT AS "NAILER" / "SUB-FASCIA" FOR PLYWOOD DECKING AND C12 FASCIA.

FASTEN PLYWOOD WITH #6 FINISH / TRIM HEAD SQUARE DRIVE S.S. SCREWS @ 24" O.C. EDGE + FIELD





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NAILER / BLOCKING AS NEEDED FOR FLUSH FINISH AS SHOWN ON TOP OF FASCIA FLANGE. ATTACH WITH #8 TEK SCREWS OR SIM. COUNTERSINK AND PAINT TO MATCH

MEMBRANE OVER 5/8" CDX PLYWOOD OVER 8 1/4" DEEP

C12 X 25 CHANNEL "FASCIA", ATTACH WITH COUNTERSUNK #8 TAPERED HEAD SELF TAPPING SCREWS @ 24" O.C. STAGGERED. MITRE, WELD, AND GRIND SMOOTH ALL 4 OUTSIDE CORNERS FOR SEAMLESS FINISH ONCE PAINTED

PAINT EXPOSED 2X BLOCKING BLACK TO MATCH FASCIA

PAINT 2X FURRING BLACK AT ALL REVEAL AREAS. FURRING TO BE CONTINUOUS AT PERIMETER CLEAR T & G CEDAR 1X4 SOFFIT PER RCP OVER 2x6 FURRING @ 24" O.C. (FASTEN 2X TO STRUCTURE WITH #10X 2¹/₂" TITEN SELF TAPPING SCREWS.

> NOTE: CARRY 2X FRAMING ENTIRE LENGTH OF ROOF FOR SOFFIT AND GYPSUM BOARD ATTACHMENT

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NOTES:

- 1. SIDEWALKS, BIKE PATHS. RAMPS AND DRIVEWAY APRONS SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MAXIMUM SLUMP OF 3", A MINIMUM DEVELOPED COMPRESSIVE STRENGTH OF 3500 P.S.I. IN 28 DAYS, AND A MINIMUM UNIFORM THICKNESS OF 6".
- 2. ALL CURB CUTS AND HANDICAP RAMPS SHALL BE ADA COMPLIANT AND TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST EDITION.
- 3. ISOLATION JOINTS (TYPE A JOINTS) SHALL BE PROVIDED BETWEEN EXISTING SLABS OR STRUCTURES AND FRESH CONCRETE, TO SEPARATE PEDESTRIAN SECTIONS FROM SECTIONS WHICH WILL ENCOUNTER VEHICLE TRAFFIC, TO SEPARATE FRESH PLACEMENT OF CONCRETE WHICH HAS SET FOR MORE THAN 60 MINUTES. AND NO FARTHER APART THAN 100' IN SIDEWALKS AND BIKE PATHS. PREFORMED EXPANSION JOINT MATERIAL SHALL BE AS SPECIFIED IN F.D.O.T. STANDARDS AND SPECIFICATIONS, LATEST EDITION, AND SHALL BE SYNTHETIC, RECYCLED RUBBER OR OTHER PRE-APPROVED NON-BIODEGRADABLE ELASTOMERIC MATERIAL. WOOD AND DECCA-DRAIN STYLE POOL DRAINS ARE STRICTLY PROHIBITED IN ACCORDANCE WITH CHAPTER 8.1.2 OF THE FDOT SOILS AND FOUNDATIONS HANDBOOK, LATEST EDITION.
- 4. CONTROL JOINTS (TYPE B JOINTS) SHALL BE TOOLED INTO THE FRESH CONCRETE OR SAW CUT INTO CURED CONCRETE TO A DEPTH EQUAL TO $\frac{1}{4}$ THE SLAB THICKNESS AND SPACED APART A DISTANCE EQUAL TO THE WIDTH OF THE SLAB OR 5' WHICHEVER IS LESS.
- 5. THE SLAB SURFACE SHALL BE BROOM FINISHED TO BE SLIP RESISTANT, AND SHALL MATCH AS CLOSELY AS POSSIBLE THE FINISH OF EXISTING ADJACENT SLABS AND ALL EDGES SHALL BE TOOLED TO ELIMINATE SHARP CORNERS.
- 6. THE BEARING SUBSURFACE SHALL HAVE ALL ORGANIC, LOOSE, AND DELETERIOUS MATTER REMOVED, AND THE REMAINING CLEAN SOIL SHALL BE SMOOTH, SOUND, AND SOLID. ANY FILL MATERIAL SHALL BE COMPACTED WITH A VIBRATORY OR IMPACT COMPACTION MACHINE IN MAXIMUM 12" LIFTS OR COMPACTED WITH A HAND TAMPER IN MAXIMUM 4" LIFTS THE CITY SHALL REQUIRE A COMPACTION TEST FOR EACH LIFT IF THE TOTAL FILLED SECTION IS MORE THAN 12" DEEP OR IF THE SUBSURFACE HAS BEEN DISTURBED MORE THAN 12" DEEP. WHERE SUCH TEST IS REQUIRED, THE RESULTS SHALL SHOW A MINIMUM PROCTOR FIELD DENSITY OF 95%. MOISTURE SHALL BE APPLIED TO DRY FILL MATERIAL TO ACHIEVE DENSITY REQUIREMENTS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE FINISHED SLAB FROM ALL DAMAGE AND VANDALISM UNTIL THE CITY ACCEPTS OR APPROVES THE SLAB, AFTER WHICH TIME THE OWNER OF THE ABUTTING LAND SHALL BE RESPONSIBLE FOR THE SLAB IN ACCORDANCE WITH THE CITY CODE. ANY SLAB SECTION DAMAGED OR VANDALIZED PRIOR TO ACCEPTANCE OR APPROVAL SHALL BE CUT OUT BETWEEN JOINTS AND REPLACED AT ON ADDITIONAL COST TO THE OWNER. REPAIRS ARE NOT ACCEPTABLE.
- 8. ALL FORMS SHALL BE REMOVED PRIOR TO ACCEPTANCE OR APPROVAL AND THE DISTURBED GROUND SHALL BE BACKFILLED, RE-GRADED, AND SODDED SO THAT THE WEAR SURFACE OF THE CONCRETE IS REASONABLY FLUSH WITH THE ADJACENT GRADE.

THE CITY OF DAYTONA BEACH

PUBLIC WORKS DEPARTMENT **TECHNICAL SERVICES**

950 BELLEVUE AVENUE DAYTONA BEACH, FL 32114

P 386 671 8610 F 386 957 6404

BRENT COHEN, ARCHITECT FL LICENSE # AR93854

ISSUE	DATE
BID SET	4.7.20

CAMPBELL **POOL ENTRY PAVILION AND POOL AREA IMPROVEMENTS**

SCALE:	AS NOTED
DRAWN:	BCC
CHECKED	BCC
PROJECT NO:	2018-044

Landscape Notes

- A. PLANT MATERIAL STANDARDS
- · ALL PLANT MATERIAL USED ON THIS PROJECT SHALL EXCEED THE CLASSIFICATION OF "FLORIDA NO. 1" AS DESCRIBED IN THE LATEST EDITION OF "GRADES AND STANDARDS FOR NURSERY PLANTS", PARTS I AND II, BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. REFER TO DETAILS FOR FURTHER QUALITY SPECIFICATIONS. ALL QUESTIONS CONCERNING THIS PLAN SET AND/OR SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- · ALL PLANT MATERIAL SHALL MEET OR EXCEED SIZE SPECIFICATIONS DEFINED HEREIN. ANY MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE LANDSCAPE ARCHITECT/OWNER WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION. PLANT MATERIAL IS SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND OWNER, BEFORE, DURING AND AFTER
- INSTALLATION, AS PER SPECIFICATIONS. · ALL SOD SHALL BE 100% SOLID SOD, 99% FREE OF NOXIOUS WEEDS, WITH A TWO (2) INCH THICKNESS OF ROOTS CAPABLE OF HOLDING SAND. SOD SHALL BE FRESHLY CUT WITHIN TWENTY-FOUR (24) HOURS OF LAYING, LAID WITH TIGHTLY-BUTTED JOINTS AND ROLLED. HAND RAKING SHALL BE DONE AS NECESSARY TO ENSURE PROPER EVEN GRADES AND CLEAR SURFACES FOR SOD.
- · ALL SINGLE-TRUNK TREES SHALL BE STRAIGHT TRUNKED WITH ONE CENTRAL LEADER AND FULLY CROWNED.
- · ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUND SCARS IN THE CLEAR TRUNK AREA. · ALL TREES SHALL HAVE A MINIMUM HEIGHT OF EIGHT (8) TO TEN (10) FEET AND TWO (2) INCHES OF CALIPER.

B. GRADING OF PLANTING BEDS

- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING FINE GRADING OF PLANTING AREAS TO INSURE AT LEAST 3% POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO TURF AREAS, PONDS, STREETS OR OTHER DRAINAGE WAYS. IN ADDITION, THE FINISH MULCH ELEVATION AT THE BUILDINGS SHALL BE AT LEAST 6" BELOW FINISH FLOOR OF THE ADJACENT BUILDINGS. VERIFY THIS CONDITION WITH GENERAL CONTRACTOR PRIOR TO BEGINNING WORK. PARKING LOT ISLANDS SHALL SLOPE AT 3" FROM CENTER OF ISLAND TO CURB. TURF AND PLANTING BEDS SHALL MEET SIDEWALKS AND FLATWORK AT 2" BELOW THE FLATWORK.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL FINAL GRADING OF BERMS, BED AREAS AND SOD AREAS UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT, BOTH BEFORE AND AFTER LANDSCAPE INSTALLATION HAS BEGUN.
- C. BED PREPARATION AND PLANTING
- · LOOSEN SOIL TO A MINIMUM DEPTH OF FOUR (4) INCHES AND REMOVE ALL DEBRIS. REGRADE THE BED TO ITS PRE-PLANTING SUBGRADE. FILL PLANT PIT WITH 50% EXISTING SOIL AND 50% TOPSOIL (SEE BELOW) AND COMPACT SO THAT THE TOP OF ROOT BALL WILL SETTLE 1/8 DEPTH OF ROOT BALL ABOVE FINISH GRADE. SET PLANT AND FILL REMAINDER OF HOLE WITH PLANTING MIX, FERTILIZE EACH PLANT AS RECOMMENDED BY SOIL ANALYSIS. THE LANDSCAPE CONTRACTOR SHALL PROVIDE OWNER WITH A YEARLY FERTILIZATION PROGRAM AS DEFINED BY THE SOIL ANALYSIS. WATER IN THOROUGHLY. RESET ANY PLANTS THAT SETTLE TOO DEEP. REMOVE SPOIL DIRT AND RAKE THE BED TO ITS FINISH GRADING. COVER ALL BED AREAS WITH A 3" DEPTH OF MULCH (SEE PLANT LIST). REMOVE ALL DEBRIS FROM MULCH.
- NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN TEN (10) FEET FROM OTHER TREES AND CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 20 - 30 FEET, DEPENDING UPON SPECIES OR UNLESS APPROVED BY THE COUNTY ADMINISTRATOR AND/OR LANDSCAPE ARCHITECT.
- PLANT MATERIAL THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN FIFTEEN (15) FEET OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.
- TREES SHALL NOT BE PLANTED CLOSER THAN SEVEN AND ONE HALF (7.5) FEET FROM THE CENTERLINE OF UNDERGROUND UTILITIES. BALLED AND BURLAPPED STRAPPING WIRE AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL
- INSPECTION. WIRE BASKETS SHOULD BE CUT AWAY FROM THE TOP 1/3 OF THE ROOTBALL. · MULCH SHALL BE PROVIDED A MINIMUM OF THREE (3) INCHES IN DEPTH AROUND ALL NEWLY PLANTED
- LANDSCAPE <u>(CYPRESS MULCH IS NOT ALLOWED PER SJC CODE</u>). SEE PLANT SCHEDULE FOR TYPE OF MULCH. $^{\circ}$ A MULCH RING FOR ALL NEWLY PLANTED TREES SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER. DO NOT MULCH WITHIN SIX (6) INCHES FROM THE TREE TRUNK.
- · PLANT INSTALLATION SHALL NOT PROCEED PRIOR TO THE INSTALLATION AND OPERATION OF THE LANDSCAPE IRRIGATION SYSTEM. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL CAUSED BY INSUFFICIENT WATER.
- · ALL PLANTINGS AND BED LAYOUTS SHALL BE SET AND APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IF PLANT MATERIAL IS INSTALLED PRIOR TO OWNER/LANDSCAPE ARCHITECT'S APPROVAL. CONTRACTOR WILL BE SUBJECT TO RELOCATING THE MATERIAL AT THE OWNER'S REQUEST AND THE CONTRACTOR'S OWN EXPENSE.
- · ALL DISTURBED AREAS OUTSIDE OF THIS SCOPE TO BE SODDED; REFER TO CIVIL ENGINEERING PLANS FOR DETAILS AND SPECIFICATIONS.

D. TOPSOIL

- TOPSOIL SHALL BE A NATURAL FRIABLE, FERTILE, FINE LOAM SOIL. IT SHALL BE CERTIFIED (BY TESTING) TO BE FREE OF WEED SEEDS AND PATHOGENS. IT SHALL ALSO BE FREE OF LITTER, SOD, CLAY, STONES, ROOTS AND STUMPS. IT SHALL BEAR A PH OF BETWEEN 5.5 AND 7.5.
- · SOIL IN TREE ISLANDS SHALL HAVE AT LEAST TWELVE (12) INCHES OF SUITABLE SOIL FOR TREE PLANTINGS AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIALS. • THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL PLANTING ISLANDS, PARKING LOT ISLANDS OR PLANTING AREAS SHALL BE CLEAN OF ALL TRASH, DEBRIS OR OTHER NON-INDIGENOUS MATERIALS TO A DEPTH OF 36"
- PRIOR TO ANY LANDSCAPE INSTALLATION. · FILL FOR ALL PARKING LOT ISLANDS SHALL BE A MIN. OF 3" BELOW TOP OF CURBING AND BE CROWNED TO A
- MIN. OF 6" ABOVE CURBING AT THE CENTER OF EACH ISLAND.

E. EDGING

· ALL EDGING SHALL BE AS DESCRIBED IN THE PLANTING DETAILS. • MULCHING AND EDGING SHALL BE PER APPROPRIATE NOTES & SPECIFICATIONS.

F. TREE STAKING

· ALL TREES TO BE STAKED AND GUYED AS SHOWN IN THE DETAILS UNLESS OTHERWISE NOTED. · ALL TREES, INCLUDING PALMS, SHALL BE SET VERTICALLY TO THE GROUND OR IF ON SLOPES OR BERMS, SHALL BE SET VERTICALLY TO THE SURROUNDING FLAT TERRAIN.

G. WARRANTY

- \cdot All plant material shall be guaranteed for a period of one year from final acceptance by the OWNER AND/OR LANDSCAPE ARCHITECT. UNTIL FINAL ACCEPTANCE BY THE OWNER AND/OR LANDSCAPE ARCHITECT, ALL PLANT MATERIAL MUST BE MAINTAINED IN GOOD, LIVING CONDITION. THIS INCLUDES KEEPING BEDS FREE OF DEBRIS AND WEEDS, ALL MECHANICAL MAINTENANCE, FERTILIZATION, CHEMICAL TREATMENTS FOR DISEASE OR INFESTATION AND WATERING. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS DIRECTED BY OWNER).
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY AND ALL NECESSARY REPAIRS TO DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR WARRANTY OF HEALTH OF PLANTS IN ON-SITE SOILS. IF DURING
- DIGGING, CONTRACTOR DISCOVERS WATER-LOGGED, CLAYEY, COMPACTED OR SIMILARLY POORLY DRAINED SOILS, IT SHOULD BE BROUGHT TO THE ATTENTION OF OWNER/LANDSCAPE ARCHITECT FOR REMEDIAL ACTION.
- · ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.

Contractor Notes

- CONSTRUCTION.
- COMMENCING WORK.
- SURVIVABILITY OF ITALIAN CYPRESS IN THIS SCOPE OF WORK.
- FORTH IN THE PLAN SET OR WRITTEN SPECIFICATIONS.
- 6. CONTRACTOR SHALL SUBMIT UNIT PRICES FOR ALL BID ITEMS.
- CONSIDERED FOR NEGOTIATION).
- ARCHITECT.
- ARCHITECT. CONTRACTOR SHALL SUBMIT UNIT PRICES FOR ALL BID ITEMS.

- OWNER).

Irrigation Design Notes

IT IS THE INTENT OF THE OWNER TO HAVE AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM FOR THIS PROJECT. THE SYSTEM IS TO BE EXECUTED THROUGH A QUALIFIED CONTRACTOR AS A DESIGN/BUILD SCOPE OF WORK. THE DESIGN OF THIS SYSTEM MUST, AT A MINIMUM, COMPLY WITH THE FOLLOWING CRITERIA.

- DESIGN OF THE IRRIGATION SYSTEM.
- MUNICIPALITIES AND ANY WATER MANAGEMENT DISTRICTS.
- 5. SYSTEM SHOULD BE DESIGNED TO ISOLATE TURF AREAS FROM SHRUB AREAS.
- 7. SYSTEM SHOULD BE DESIGNED TO MINIMIZE OVERSPRAY ONTO PAVED SURFACES.
- 8. SYSTEM SHOULD BE DESIGNED TO BE METERED AS STAND ALONE WATER SERVICE. 9. SYSTEM SHOULD BE DESIGNED TO INCLUDE A RAIN SENSOR.
- CENTER.
- CONTROLLERS AND VALVE BOXES.
- ROTORS, SPRAY HEADS, DRIP EMITTERS, QUICK COUPLERS AND NOZZLES.
- 13. ALL IRRIGATION PIPING TO BE SCHEDULE 40, NO SUBSTITUTES

RELATE TO THE IRRIGATION SYSTEM:

- 3 COPIES OF OWNER'S OPERATIONS AND MAINTENANCE MANUALS.
- 6 EXTRA SPRAY / ROTOR HEADS FOR EACH TYPE USED ON THE PROJECT.

Mulch Notes

PINE BARK MINI NUGGETS SHALL BE PROVIDED FOR ALL AREAS WITHIN THE LIMITS OF WORK DESIGNATED TO RECEIVE NEW TREES OR SHRUBS; SEE LANDSCAPE PLANS FOR MORE DETAILS. MULCH SHALL BE PROVIDED TO A CONSISTENT DEPTH OF 3 INCHES THROUGHOUT.

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ISSUE DATE 4.7.20 BID SET

CAMPBELL **POOL ENTRY PAVILION AND POOL AREA IMPROVEMENTS**

400 Dr. M.L.K Jr. BLVD DAYTONA BEACH, FL 32114

1. THE LANDSCAPE CONTRACTOR SHALL REVIEW ALL LANDSCAPE PLANS AND SPECIFICATIONS AND PERFORM AN ANALYSIS OF SITE CONDITIONS RELATIVE TO THE PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION AS WELL AS BECOMING FAMILIAR WITH ALL UNDERGROUND UTILITIES. PIPES, STRUCTURES AND LINE RUNS PRIOR TO CONSTRUCTION. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCUR AS A RESULT OF THE LANDSCAPE

2. REPORT ALL DISCREPANCIES IN SITE CONDITIONS OR NON-CONFORMANCE TO SPECIFICATIONS (SUCH AS GRADING, BACKFILLING, REMOVAL OF DEBRIS, GRUBBING, ETC) TO LANDSCAPE ARCHITECT PRIOR TO

3. CONTRACTOR SHALL BE RESPONSIBLE FOR AND WARRANTY THE HEALTH OF PLANTS IN ON-SITE SOILS. IF, DURING DIGGING, THE CONTRACTOR DISCOVERS WATER-LOGGED, CLAYEY, COMPACTED OR SIMILARLY POORLY DRAINED SOILS, IT SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER FOR IMMEDIATE REMEDIAL ACTION. CONTRACTOR SHALL ALSO TAKE ALL NECESSARY MEASURES TO ENSURE THE VIABILITY AND

4. TO INSURE A TIMELY FLOW OF WORK, THE LANDSCAPE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES OR PROFESSIONALS ON THE SITE WHOSE WORK MAY OVERLAP OR INTERFERE WITH THE WORK SET

5. THE PLANT QUANTITIES WITHIN THE PLANT LIST ARE PROVIDED FOR CONVENIENCE PURPOSES. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT MATERIAL QUANTITIES AND ALL QUANTITIES FOR SOD. MULCH. ROCK MULCH, FINISH GRADE/BERMING AND PLANTING SOIL, PRIOR TO BIDDING. WHERE CONFLICTS OCCUR BETWEEN PLAN DRAWINGS AND PLANT LIST, THE PLAN DRAWINGS SHALL PREVAIL.

7. DISCREPANCIES IN DOCUMENTS OR SITE CONDITIONS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IN WRITING AT TIME OF BIDDING OR PRIOR TO CONSTRUCTION. NO ACCOUNT SHALL BE MADE AFTER CONTRACT COMPLETION FOR FAILURE TO REPORT SUCH CONDITION OR FOR ERRORS ON THE PART OF THE LANDSCAPE CONTRACTOR AT TIME OF BIDDING (ONLY EXTREMELY PECULIAR AND UNUSUAL CONDITIONS WILL BE

8. ALL QUESTIONS CONCERNING THIS PLAN SET OR SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE

9. PLANT MATERIALS ARE TO BE BID AS SPECIFIED UNLESS UNAVAILABLE. AT WHICH TIME THE LANDSCAPE ARCHITECT WILL BE NOTIFIED BY TELEPHONE AND IN WRITING OF THE INTENDED CHANGES. THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTIONS WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE

10. IF ISSUED, WRITTEN SPECIFICATIONS SHALL BE AN INTEGRAL PART OF THIS PLAN SET.

11. THE LANDSCAPE CONTRACTOR SHALL FIELD VERIFY PROPERTY LINE LOCATIONS BEFORE INSTALLATION OF ANY PERIMETER PLANT MATERIAL OR IRRIGATION SYSTEM.

12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY APPLICABLE PERMITS AND LICENSES TO PERFORM THE WORK SET FORTH IN THE PLAN SET OR WRITTEN SPECIFICATIONS.

13. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTINGS (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, MOWING, ETC) OF PLANTING AREAS AND LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT AND THE OWNER.

14. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF FINAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS DIRECTED BY THE

1. SYSTEM SHOULD PROVIDE FOR 100% COVERAGE OF ALL PLANTING AREAS WITH HEAD TO HEAD COVERAGE. 2. SYSTEM SHOULD BE DESIGNED FOR MOST EFFICIENT USAGE OF WATER USING BEST MANAGEMENT PRACTICES FOR THE PROTECTION OF WATER RESOURCES IN FLORIDA DEVELOPED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DEPARTMENT OF

COMMUNITY AFFAIRS, WATER MANAGEMENT DISTRICTS, THE UNIVERSITY OF FLORIDA. 3. ALL PROPOSED TREES SHALL EACH HAVE CORRESPONDING BUBBLERS ASSOCIATED WITH IT AS A PART OF THE

4. IF WATER SOURCE IS FROM THE REUSE OF RECLAIMED WATER; SYSTEM SHOULD BE DESIGNED TO MEET ALL REQUIREMENTS FOR AS SET FORTH BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE FLORIDA DEPARTMENT OF HEALTH, PLUS ANY ADDITIONAL REQUIREMENTS FOR STATE AND LOCAL

6. SYSTEM SHOULD BE DESIGNED TO ALLOW IRRIGATION TO BE ACCOMPLISHED IN A SIX HOUR PERIOD.

10. SYSTEM SHOULD BE DESIGNED TO INCORPORATE QUICK COUPLER VALVES AT NO MORE THAN 200 FEET ON

11. OWNER RESERVES THE RIGHT TO REVIEW THE DESIGN PLACEMENT OF ALL BACKFLOW PREVENTORS,

12. IRRIGATION PLANS SHOULD BE PREPARED AT A SCALE NO SMALLER THAN 1 INCH = 20 FEET AND SHOULD ACCURATELY, AND CLEARLY, DEPICT THE LOCATION OF ALL POINTS OF CONNECTION, BACKFLOW PREVENTORS, CONTROLLERS, VALVE BOXES, SLEEVES, MAIN LINE (INCLUDING DIA.), LATERAL LINES (INCLUDING DIA.), TURF

14. ALL HEADS, VALVES, AND TIMERS TO BE MANUFACTURED BY HUNTER, NO SUBSTITUTES

AT THE COMPLETION OF THE PROJECT THE OWNER WILL BE PROVIDED WITH THE FOLLOWING ITEMS AS THEY

1 - SET OF DIGITAL AS-BUILT RECORD DRAWINGS AT A SCALE NO SMALLER THAN 1 INCH = 20 FEET. 3 – SETS OF AS-BUILT RECORD DRAWINGS AT A SCALE NO SMALLER THAN 1 INCH = 20 FEET. 3 - COPIES OF RECOMMENDED IRRIGATION SCHEDULE WITH PROPOSED APPLICATION RATES.

AS NOTED SCALE: BCC DRAWN: BCC CHECKED PROJECT NO: 2018-044

SECTION 02950 TREES, SHRUBS, AND GROUND COVER

PART 1 GENERAL

1.01 WORK INCLUDED A. Trees, shrubs, vines and ground cover as applicable.

B. Topsoil backfill.

C. Staking and guying.

D. Maintenance service.

E. Annuals and perennials planting.

1.02 RELATED WORK A. Section 02811 - Underground Sprinkler System.

B. Section 02938 - Sodding.

1.03 REFERENCES A. Standardized Plant Names, 1942 edition, American Joint Committee on Horticulture Nomenclature.

B. American Standard for Nursery Stock (ANSI Z60), latest edition, American Association of Nurserymen.

C. FS O-F-241 - Fertilizer, Mixed, Commercial.

1.04 QUALITY ASSURANCE A. Perform work with personnel experienced in the E. Prepare topsoil for shrub and ground cover work required of this Section under direction of a beds, after removing any vegetation with approved skilled foreman.

B. Submit sources of plant materials. All materials to have name tags attached. Submit invoice with plant names noted if required.

C. Contractor shall locate all materials and be responsible for conformance with requirements of this Section. All plants not meeting requirements to be rejected.

1.05 DELIVERY, STORAGE, AND HANDLING A. Move B&B plant materials with solid balls wrapped in burlap. Plants to be lifted only by ball or container.

B. Deliver plant materials immediately prior to placement. Keep plant materials not immediately installed moist and protect from freezing by covering ball or container with mulch.

C. Reject plants when ball or container of earth surrounding roots has been cracked, broken or frozen preparatory to or during process of planting.

1.06 WARRANTY A. Warrant all plants to be living, healthy specimens for a period of one year commencing upon date of final acceptance. Warranty period shall terminate only if plants have been in full leaf

for 30 days at end of warranty period. Termination of warranty period shall be extended as necessary to comply. All materials to be in vigorous condition at end of warranty period.

B. Immediately remove dead plants and plants not in a vigorous condition and replace as soon as weather conditions permit. Each replacement shall be covered with one year warranty commencing at time of planting.

C. Replacements: Match with adjacent plants of the same species in size and form.

1.07 MAINTENANCE SERVICE

A. Begin maintenance of plant materials immediately after planting and continue until date of final project acceptance.

B. Maintenance shall include measures necessary to in caliper, area to be 6 feet in diameter. For establish and maintain plants in a vigorous and healthy growing condition. Include the following: 1. Cultivation and weeding of plant beds and tree pits. When herbicides are used for weed control,

apply in accordance with manufacturer's instructions. Remedy damage resulting from use of herbicides.

2. Watering sufficient to maintain optimum moisture

3. Pruning, including removal of dead or broken branches, and treatment of prune wounds. 4. Disease and insect control.

5. Maintaining plants in an upright, plumb position, and repair of settling.

6. Maintenance of wrappings, guys, turnbuckles and stakes. Adjust turnbuckles or otherwise keep guy wires tight. Repair or replace accessories when required.

PART 2 PRODUCTS

2.01 MATERIALS

A. Trees, Shrubs, Vines, and Ground Cover: Species and size identified in plant list. Plant materials shall be true to name, in good health, free of disease and insects, excellent in form and END OF SECTION 02950 in complete conformance with ANSI Z60. All materials to be nursery grown.

B. Topsoil: Friable loam, typical of cultivated topsoils locally, containing at least 2% of decayed organic matter (humus) secured from a well drained, arable site, reasonably free of subsoil, stones, earth clods, sticks, roots or other objectionable extraneous matter or debris and containing no toxic materials. Topsoil to have acidity range of 6.0 to 7.0.

C. Mulch: See Plant Schedule. Cypress products are prohibited.

D. Fertilizer: Osmocote 18-6-12. Or Approved Equal.

E. Organic Compost: Supplied by Wild Earth Products - State Line Bark & Mulch Inc. Rte. 4 Box 630, Old Dixie Hwy. 121 Folkston, GA 31537 ph. 912-496-2999 fx. 912-496-2998 wildearth1@yahoo.com - Or Approved Equal.

2.02 ACCESSORIES A. Wrapping Materials: Heavy paper manufactured for tree wrapping purpose.

B. Stakes: Metal Fence posts (Painted Brown) - 6

foot height. Wood (Painted Brown) - All sizes decay resistant.

C. Hardware (cables, wire, eye bolts, and turnbuckles): Noncorrosive; of sufficient strength to withstand wind pressure.

D. Tie straps: Soft polypropylene material equal to ArborTie, by Deep Root Partners, L.P., 31 Langston St., Suite 4, San Francisco, CA, 94103, 1-800-277-7668.

PART 3 EXECUTION

3.01 PREPARATION A. Verify topsoil is ready to receive the work of this Section. All areas to be planted with shrub or ground cover masses to have minimum 6 inch depth of topsoil.

B. Remove all weeds and grasses from planting beds. Bermuda grass, if present, to be exterminated by approved means or all soil removed to 6 inch depth and replaced with

topsoil free of bermuda grass. C. Stake tree locations and place shrubs, vines, and ground covers for review and final orientation

D. Outline bed edges for approval prior to installation.

procedure, by tilling 2 inch layer (165 CF per 1000 sq. ft.) of compost into the upper 6 inches of soil.

3.02 INSTALLATION

A. Excavate for plant materials. Tree pits shall be 24 inches greater in diameter than root ball. Circle to be centered on tree and true in form. Slope cut edge to 6" depth and bottom of pit to depth required to accommodate tree rootball. Shrub pits shall be 12 inches greater in diameter than root ball. Topsoil from excavation may be retained for backfill if it is friable and free of rock and clods greater than 2" in dia. Remove all subsoil, rock, and debris from site.

B. Set trees with top of root ball 3 inches above surrounding grade, and other plant materials 2 inches above surrounding grade, after settlement.

C. Remove containers from container-grown stock. Set plants in center of pits and backfill with topsoil in 6 inch layers. Pull away ropes, wires, etc. from the top of the ball.

D. Final 6 inch layer of backfill around trees to consist of 1:1 mixture of organic compost and

Thoroughly water soil when the hole is half full, and again when full.

F. Apply 1/2 pound fertilizer evenly over cultivated area around each tree and 1 pound per 100 square feet to shrub and ground cover plantings.

G. Evenly spread a 3 inch layer of mulch over tree pits and planting beds. For trees, avoid placing mulch within 6" of tree trunk. For shrubs, avoid placing mulch within 3" of plants main stem.

H. Prune trees and shrubs after planting to improve form and to remove dead and broken branches.

I. Circular area around trees to be mulched and free of vegetation. For trees 2 inch and greater trees less than 2 inch caliper, area to be 4 feet in diameter. Circle to be centered on tree and true in form.

J. After planting trees, form a 3' diameter ridge of topsoil around edge of excavation to retain water.

3.03 PLANT SUPPORT A. Brace plants upright and plumb in position by staking and guying as detailed. Guys to be secured to tree with loops as detailed.

3.04 SPECIAL PLANTING A. Annuals, Seasonal Planting: Prepare soil per requirements for shrubs and ground cover as described in Article 3.01. Refresh annually by Incorporating 2 inch layer (165 CF per 1000 SF)

of organic compost. 1. Spring Planting should be installed between March and April. 2. Fall Planting should be installed between

October and November. 3. Spring or Fall planting time is contingent upon current weather patterns and temperature.

by Owner's Representative prior to installation.

REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING

TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. ALL TREES SHOULD BE STAKED ACCORDING TO THE DETAILS PROVIDED IN THESE DRAWINGS UNLESS STATED OTHERWISE BY THE LANDSCAPE ARCHITECT. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.

- o TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE. o TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
- o PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE. • ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
- ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL. STAKING ADVISABLE. • TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

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P 386 671 8610 F 386 957 6404

BRENT COHEN, ARCHITECT FL LICENSE # AR93854

EDGE OF PLANTING EQUAL SPACING -BED EQUALS SPACING BETWEEN PLANTS BETWEEN ALL PLANTS AS NOTED ON PLANT LIST AS NOTED

SHRUB MASS PLANTING LAYOUT

ISSUE	DATE
BID SET	4.7.20

CAMPBELL **POOL ENTRY PAVILION AND POOL AREA IMPROVEMENTS**

SCALE:	AS NOTED
DRAWN:	BCC
CHECKED	BCC
PROJECT NO:	2018-044

PLANT	PLANT SCHEDULE							
QUAN	۱.	KEY	BOTANICAL/COMMON NAME	DESCRIPTION				
2		QV	CATHEDRAL OAK Quercus virginiana LIVE OAK	3.5" caliper 65 gal. 14'ht.x 8'spr.				
200) } 0	OPHIPOGON JAPONICUS MONDO GRASS	1 gal. full 16" o.c.				
30	$\overline{\mathbf{\cdot}}$	ZP	Zamia pumila COONTIE	12" o.a. ht. 3 gal. 30" o.c.				
100		MF	ASPIDISTRA ELATIOR CAST IRON PLAN	24" o.a. ht. 3 gal. 12" o.c.				

THE CITY OF DAYTONA BEACH

PUBLIC WORKS DEPARTMENT TECHNICAL SERVICES

950 BELLEVUE AVENUE DAYTONA BEACH, FL 32114

P 386 671 8610 F 386 957 6404

BRENT COHEN, ARCHITECT FL LICENSE # AR93854

ISSUE	DATE
BID SET	4.7.20

CAMPBELL POOL ENTRY PAVILION AND POOL AREA IMPROVEMENTS

400 Dr. M.L.K Jr. BLVD DAYTONA BEACH, FL 32114

SCALE:AS NOTEDDRAWN:BCCCHECKEDBCCPROJECT NO:2018-044

MECHANICAL LEGEND

-CHILLED WATER SUPPLY
-REFRIGERANT LIQUID
-REFRIGERANT SUCTION
-GATE VALVE
-BALL VALVE
-CALIBRATE BALANCING VALVE
-BUTTERFLY VALVE
-GAS COCK
-UNION
-STRAINER
-PSI REG.
-CHECK VALVE
-CONNECTION, BOTTOM
-CONNECTION, TOP
-ELBOW,TURNED DOWN
-ELBOW, TURNED UP
-REDUCER, CONCENTRIC
-REDUCER, ECCENTRIC STRAIGHT CI
-REDUCER, ECCENTRIC STRAIGHT CI
-CAP

^	٨ID		
~		HR	HOUR
AAV		HVAC	HEATING VENTILATING
AC			AND AIR CONDITIONING
ACU		H7	
AD		114	
AFF			
AFG		ID	
AHU	AIR HANDLING UNIT	IN	INCH
ALUM	ALUMINUM		
AP	ACCESS PANEL	KEF	KITCHEN EXHAUST FAN
APD	AIR PRESSURE DROP	KW	KILOWATT
ATC	AUTOMATIC TEMPERATURE CONTROL		
AV	AIR VENT	LDB	
BDD	BACK DRAFT DAMPER	LVVB	
BOT	BOTTOM	LOR LI	MIT OF REMOVAL
BEP	BACKELOW PREVENTER	MAX	MAXIMUM
BTU	BRITISH THERMAL LINIT	MBC	MASTER BUILDING CONTROLLER
DIO		MBH	THOUSAND BTU PER HOUR
С	CELSIUS, DEGREE CELSIUS	MD	MANUAL DAMPER
CENT	CENTRIFUGAL	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	N	NORTH
CHWS&R	CHILLED WATER SUPPLY & RETURN	ΝΔ	
CLG	CEILING		
CF	CEILING FAN		
CO	CLEAN OUT	NI S	NOT TO SCALL
COND	CONDENSATE	~	
		0A ODD	
DB	DRY BULB, DOWN BLOW	OBD	
DCW	DOMESTIC COLD WATER		
DEG	DEGREE	OPER	OPERATING
DELIV	DELIVERY	501	
DHW	DOMESTIC HOT WATER	PSI	POUNDS PER SQUARE INCH
DISC	DISCONNECT	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN		
		RA	RETURN AIR
EA	EXHAUST AIR, EACH	REG	REGISTER
EAT	ENTERING AIR TEMPERATURE	RF	RETURN FAN
EDB	ENTERING DRY BULB	RG	RETURN GRILLE
FF	EXHAUST FAN	RH	RELATIVE HUMIDITY
EFF	EFFICIENCY	RHC	REHEAT COIL
FLEV	FLEVATION	RM	ROOM
EMS	ENERGY MANAGEMENT SYSTEM		
ENT	ENTERING	50	
ERG	EXISTING RETURN GRILLE		SMOKE EXHAUST FAN
EWB	ENTERING WET BULB		SUPPLY FAN
		S/FD	SMOKE/FIRE DAMPER
F	FAHRENHEIT		
FD	FIRE DAMPER, FLOOR DRAIN	т	THERMOSTAT
FPM	FEET PER MINUTE	TEC	TERMINAL EQUIPMENT CONTROLLER
FPS	FEET PER SECOND	TEMP	TEMPERATURE
F/SD	FIRE/SMOKE DAMPER	T/D	TRANSFER DUCT
FT	FEET	TYP	TYPICAL
GPH		V	VENT. VOLT
GPM		VD	
GLY		VFRT	VERTICAL
GRV			
GWS	GLYCOL WATER SUPPLY	VVB	
GWR	GLYCOL WATER RETURN	VVPD	WATER PRESSURE DROP
		1WB	
		2WB	
НОА			

MECHANICAL GENERAL NOTES

- 1. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR. OR IS CAPABLE OF MORE THAN ONE INTERPRETATION. SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELVES WITH THE PLANS.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA MECHANICAL CODE AND ALL LOCAL CODES.
- 4. THE SIZE AND LOCATION OF EQUIPMENT INSTALLED UNDER DIVISION 23 MECHANICAL SHALL BE COORDINATED WITH OTHER TRADES. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- 5. DISCONNECT SWITCHES REQUIRED FOR THE MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR EXCEPT WHEN INDICATED ON SCHEDULE.
- 6. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. SUPPORT ALL OBJECTS FROM STRUCTURE WITHOUT PENETRATING THE CEILING SLAB.
- SLEEVE & FIRESTOP PENETRATIONS THROUGH FIRE RATED SYSTEMS TO MAINTAIN RATING OF SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PENETRATION DETAILS & INFORMATION.
- 8. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT, SHEET M6.01 & M6.02.
- 9. THERE SHALL BE ENOUGH ROOM AROUND THE AIR HANDLERS FOR EASE OF SERVICE AND ACCESSIBILITY. FOLLOW MANUFACTURER'S RECOMMENDATIONS ON EQUIPMENT ACCESS AND MAINTENANCE.
- 10. CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE COORDINATED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. FOLLOW MANUFACTURER'S RECOMMENDATIONS. CPVC IS NOT AN ALLOWED MATERIAL.
- 11. ALL CONDENSATE DRAIN LINES SHALL BE INSULATED AND INSTALLED WITH A 'P' TRAP AT THE UNIT WITH A MINIMUM DEPTH OF 2" OR PER MANUFACTURER'S INSTRUCTIONS, WHICHEVER IS GREATER.
- 12. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN OR DRY WELL.
- 13. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA 90A AND 90B.
- 14. DUCT SIZES SHOWN ARE MINIMUM INSIDE DIMENSIONS.
- 15. SEE SPECS. FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- 16. BEFORE FABRICATION, VERIFY AND COORDINATE ALL DIMENSIONS IN FIELD. DUCT SIZES AND ALL OPENINGS THRU BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT/MATERIALS FURNISHED.
- 17. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDING DUCTS) AND
- TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST. 18. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.

MECHANICAL ABBREVIATIONS

MECHANICAL SYMBOLS LEGEND

DUCTWORK

NEW WORK	
SUPPLY AIR DUCT - SECTION	
RETURN AIR DUCT - SECTION	
EXHAUST AIR DUCT - SECTION SUPPLY DUCT UP THRU ROOF OR	Ę
FLOOR/CEILING ASSEMBLY RETURN DUCT UP THRU ROOF OR FLOOR/CEILING ASSEMBLY	
ELBOW TURNED UP	
ELBOW TURNED DOWN	TYPE
OFFSET IN DUCTWORK - UP	
OFFSET IN DUCTWORK - DOWN	
TEE WITH DOUBLE THICKNESS	
MITERED ELBOW	
RADIUS ELBOW	
CEILING DIFFUSER - BOTTOM DUCT CONNECTION	
STANDARD BRANCH TAKEOFF	
MANUAL DAMPER	

- 19. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT AND FIRE DAMPERS.
- 20. ALL DUCT BENDS FROM VERTICAL TO THE HORIZONTAL AND ANGLED TURNS OF DUCTWORK SHALL HAVE TURNING VANES INSTALLED.
- 21. EXHAUST DUCTWORK SHALL BE UNINSULATED GALVANIZED STEEL 28 GA.
- 22. EXHAUST FAN OUTLETS SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES.
- 23. CONTROL DEVICE MOTORS (DAMPERS, ETC.) SHALL BE 24VAC TYPE WITH ALL ELECTRICAL POWER REQUIREMENTS CLEARLY NOTED ON THE CONSTRUCTION DRAWINGS.
- 24. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- 25. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 36" ABOVE ROOF.
- 26. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO EACH FAN, AIR HANDLING UNIT, AND FAN COIL UNIT.
- 27. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- 28. AIR-CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE 1 1/2" THICK (R6.0) FIBERGLASS DUCTBOARD. FOR LOWER FLOORS, CONTRACTOR CAN USE 1" THICK (R4.2) FIBERGLASS DUCTBOARD, CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181. DUCTBOARD SHALL BE 475EI OR 800EI AS PRESCRIBED BY SMACNA DEPENDING ON THE DUCT SIZE.
- 29. ALL FIBROUS GLASS DUCTBOARD JOINTS, SEAMS AND CONNECTIONS SHALL BE SEALED WITH GLASS FABRIC AND MASTIC. ALL FIBROUS GLASS DUCT BOARD JOINTS, SEAMS & CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LATEST EDITION OF SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCT & DUCT WRAP SHALL BE SEALED WITH GLASS FAB & MASTIC. ALL DUCTWORK SHALL BE CLASS 1, UL-181 & ALL CLOSURES SHALL MAINTAIN THIS RATING.
- 30. DUCTWORK SHALL BE: TYPE INL-25 AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORP. OR EQUAL, SUPPORTED WITH 1 1/2" SHEET METAL OR NYLON STRAPS AT 5'-0" ON CENTERS. SUPPORT DUCTWORK 18" FROM EACH REGISTER, BRANCH OR PLENUM BOX. FLEXIBLE DUCTWORK SHALL COMPLY WITH UL181 AND CLASS 0 OR 1 AND SHALL NOT BE LIMITED IN LENGTH.
- 31. COORDINATE ALL HVAC SYSTEM DRAWINGS WITH TRUSS/JOIST MANUFACTURER DURING SHOP DRAWING REVIEW TO AVOID INTERFERENCES BETWEEN MECHANICAL SYSTEMS ROOF STRUCTURE. COORDINATE IN ADVANCE; ENGINEER/ARCHITECT WILL NOT BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TRUSS/JOIST INTERFERENCES THAT OCCUR IN THE FIELD DURING CONSTRUCTION. DUCT SIZES MAY BE REVISED TO FIT TRUSS/JOIST SYSTEM SO LONG AS THE EQUIVALENT INSIDE CROSS-SECTIONAL AREA IS NOT DECREASED.
- 32. COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- 33. COORDINATE WITH ARCHITECT BEFORE PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS, AND OTHER AIR DISTRIBUTION DEVICES TO VERIFY FINISH.
- 34. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- 35. ALL OPERABLE THERMOSTAT PARTS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR, UNLESS STATED OTHERWISE. THERMOSTATS SHALL BE FURNISHED WITH A FACTORY FURNISHED TRANSPARENT VANDAL PROOF LOCKING COVER IN ALL PUBLIC COMMON AREAS. VOLTAGE SHALL BE 24 VOLT UNLESS OTHERWISE INDICATED.
- 36. COORDINATE THERMOSTAT LOCATIONS WITH FURNITURE/EQUIPMENT LAYOUTS, WINDOWS, AND DOOR SWING AREAS.
- 37. ALL CONTROL WIRING AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED BY THE CONTRACTOR OF THESE CONTRACT DOCUMENTS UNLESS INDICATED OTHERWISE ON DRAWINGS.

- CONTRACTOR, AND OWNER PRIOR TO PURCHASE AND INSTALLATION.
- OWNER.

OFF.

- 49. FOR ALL EXPOSED INSULATION ON ROOF, PROVIDE UV PROTECTIVE COATING.
- 50. INSTALL FIRE DAMPERS PER MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL SYMBOLS LEGEND

38. ALL HVAC EQUIPMENT LOCATION & WEIGHT SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER,

39. PROVIDE ALL MANUFACTURER INSTALLATION AND MAINTENANCE FOR EQUIPMENT INSTALLED FOR ENGINEER REVIEW BEFORE RELEASE TO THE

40. AIR FILTERING SHALL BE ACCOMPLISHED USING 1" PLEATED 30% EFFICIENT (MIN.) FILTERS OR EQUAL IN AIR HANDLING EQUIPMENT. NO ELECTROSTATIC OR WASHABLE FILTERS ARE ALLOWED. INSTALL PRIOR TO UNIT START UP, REPLACED A MINIMUM OF ONCE PER MONTH DURING THE CONSTRUCTION PERIOD, REPLACED PRIOR TO TEST AND BALANCE, AND REPLACED MONTHLY UNTIL FINAL COMPLETION.

41. ALL EQUIPMENT SHALL BE FREE OF ANY DAMAGE AT THE TIME OF ACCEPTANCE. ALL DENTS, SCRATCHES, AND ANY OTHER DAMAGES HAVE TO BE REPAIRED PRIOR TO THE INSTALLATION OF THE EQUIPMENT.

42. ALL EXHAUST FANS SHALL BE PROVIDED WITH BACK DRAFT OR MOTORIZED DAMPERS TO MINIMIZE OUTSIDE AIR INFILTRATION WHEN FANS ARE

43. ALL PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND RUN IN A PIPING CHASE OR CONDUIT OF SUFFICIENT SIZE TO ALLOW REPLACEMENT OF THE PIPING IN THE FUTURE. EACH END OF THE CHASE SHALL BE SEALED AIR AND WATERTIGHT.

44. ALL REFRIGERANT PIPING AND ASSOCIATED CONTROLS AND ACCESSORIES SHALL BE ROUTED IN A MANNER THAT WOULD NOT HINDER SERVICEABILITY OF THE UNIT AND ACCESS TO THE COMPONENTS THAT REQUIRE PERIODIC MAINTENANCE AND UPKEEP.

45. ALL REFRIGERANT PIPING IN CONCEALED CHASES FOR SPLIT DX UNITS SHALL BE SOFT DRAWN TYPE K COPPER. SERVICE FITTINGS FOR REFRIGERANT LINES SHALL BE SPECIFIED TO BE LOCATED IN A MANNER TO BE INACCESSIBLE FROM THE PUBLIC.

46. ALL DUCTWORK ACCESSORIES THAT PENETRATE THE SHEET METAL DUCT SHALL BE PROPERLY FASTENED, SEALED, AND INSULATED.

47. ALL HVAC EQUIPMENT AND IT'S APPURTENANCES TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

48. LOCATE WALL AND ROOF TERMINATION'S AT THE SAME RELATIVE ELEVATION AND HORIZONTAL POSITION TO MAINTAIN A UNIFORM APPEARANCE. WHEN IN DOUBT, COORDINATE PLACEMENT WITH ARCHITECT. PRIME COAT AND PAINT EXTERIOR TERMINATION'S TO MATCH BUILDING COLOR.

_NGINEERING CA-00006208 935 Lake Baldwin Lane Orlando, Fl. 32814 Tel: 407-767-5188 FAX: 407-767-5772 WWW.SGMENGINEERING.COM COPYRIGHT © 2019 SGM ENGINEERING, INC. Client Name: THE CITY OF **DAYTONA BEACH PUBLIC WORKS DEPT. 950 BELLEVUE AVE** DAYTONA BEACH, FL 32114 ssue: BID SET 04/06/20 No. Date Description Project Name: CAMPBELL POOL **ENTRY BUILDING** Drawing File Name: Project Number: 1500-M001-2020021.DWG 2020-021 AS SHOWN Scale: Design By: Drawn By: Checked By: Engineer of Record: JOHN STELLPFLUG License Number: FL68794 Sheet Name: MECHANICAL SYMBOLS LEGEND heet Number: MOO

										MIN	NI SPL	IT SY	STEM	SCHE	DULE														
			CO	OLING	EFFICIENCY						A IR HA	NDLER											CONDEN	SING UNIT					
MARK	AREA SERVED	MANUFACTURER	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	SEER	MODEL#	SUPPLY (CFM)	OUTSIDE ESP	MOTOR POWER (W)	COIL E	EAT (°F)	COIL L	AT (°F)	HEATING		ELECT	RICAL		WEIGHT	MODEL#	REFRIGERANT	COMP	RESSOR		ELEC	TRICAL		WEIGHT	REMARKS
										DB	WB	DB	WB		VOLT	PHASE	MCA	MOP				QTY.	TYPE	VOLT	PHASE	MCA	MOP	(200)	
AC-1	SPACE	DA IKIN	11,500	10,400	21.5	FDXS12LVJU	280	- 0.1	62	80	67	55	54	11,500	230	1	-	-	47	RXS12LVJU	R-410A	1	SWING	230	1	8.75	15	75	1-5

NOTES:

1. REFRIGERANT LINES AND INSULATION SHALL BE SIZED AND INSTALLED IN STRICT A CCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUBMITTALS ON INSULATION WITH EQUIPMENT SUBMITTALS.

2. PROVIDE MERV 8 THROWAWAY FILTERS.

3. PROVIDE OPTIONAL CONDENSATE PUMP.

4. PROVIDE WITH PROGRAMMA BLE THERMOSTAT.

5. SYSTEM TO BE INVERTER TECHNOLOGY.

PLAN KEY NOTES (#)

- 1. CONDENSATE DRAIN LINE, $\frac{3}{4}$ " DIA. ROUTE FROM AHU, ABOVE CEILING AND DOWN EXPOSED AGAINST WALL AND INTO A LANDSCAPED AREA. PROVIDE WITH CONDENSATE PUMP. USE TURNED DOWN ELBOW. TERMINATE ELBOW MIN. 6" ABOVE EXTERIOR GRADE. CPVC IS NOT ACCEPTABLE FOR CONDENSATE DRAINS.
- 2. REFRIGERANT LINES. ROUTE FROM AHU ABOVE CEILING TO EXTERIOR CONDENSER.
- 3. AIR HANDLING UNIT MOUNTED CONCEALED IN SOFFIT SPACE. PROVIDE ACCESS PANEL LARGE ENOUGH TO SERVICE THE EQUIPMENT AND WITH INTEGRAL RETURN GRILLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CONDENSATE PUMP.
- 4. WALL MOUNTED CONDENSER UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER SHEET M8.01 FOR DETAIL.
- 5. RETURN PLENUM. SOFFIT ENCLOSURE TO BE USED AS PLENUM AND ALL MATERIAL WITHIN THIS SPACE SHALL BE NON-COMBUSTIBLE.
- 6. EXTERIOR HOSE BIBB MODEL B24.
- 7. EXTERIOR UNDERGROUND BRONZE GATE VALVE PLACED IN A HEAVY DUTY VALVE BOX.
- 8. ROUTE UNDERGROUND 1/2" DOMESTIC COLD WATER MAIN AND CONNECT TO THE WATER SUPPLY PROVIDED AT THE ADJACENT BUILDING. FIELD VERIFY EXACT LOCATION AND MAKE FINAL CONNECTIONS DOWNSTREAM OF EXISTING METER.

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

0 2' 4'

CONDITIONS AT JOB SIT	SGN ENGINEERING
TY ALL DIMENSIONS AND	935 LAKE BALDWIN LANE ORLANDO, FL. 32814 TEL: 407-767-5188 FAX: 407-767-5772 WWW.SGMENGINEERING.COM COPYRIGHT © 2019 SGM ENGINEERING, INC.
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MECHANICAL DETAILS

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				SECTIO	N 26
	1'x4' FIXTURE, BATTERY/EMERGENCY			1.	ALI
н	12" STEP LIGHT				LIN
	PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC,				
Ş	800/1200W. WATTSTOPPER PW-100 OR EQUAL.			2	UTI
Р	POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY.			£.	WA
				3.	AC TH
	PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR			Δ	PR ALL
	ZONE/AREA CONTROL. WATTSTOPPER BZ-250 OR EQUAL.			4. 5.	ALI
PC	PHOTOCELL			6. 7.	ALI CO
¢	FLOOD LIGHT FIXTURE				CO TH
				8.	WC
				9.	(IN) VIS
<u>POWER</u>	DISTRIBUTION				EN EV
	120/208V PANELBOARD, SURFACE MOUNT			10.	AN
\frown	FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL,			11.	۱U WF
\frown	HOMERUN CONSISTING OF ONE SINGLE-PHASE 1-POLE CIRCUIT SEE				
1R1-1	SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES.				DE
	PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.			12.	INF TO
1M1-1:3	SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE				SH
	SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.				SH
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POWER	DEVICES				IN] TH
C	DUPLEX RECEPTACLE				AC
₽	DUPLEX RECEPTACLE, GROUND FAULT			14.	AD IF,
WP	COVER				MC
	DISCONNECT SWITCH				PE
Т	TRANSFORMER			15.	OF PR
(\mathbf{J})	JUNCTION BOX			16	BE
Ŭ					HC
	NICATION SYMBOL			17. 18.	IH PR
	NICATION STMBOL			19.	CC FIF
—	X = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE				CC
	ADAPTER (P)OLE, (R)ACEWAY, (D)OUBLE GANG FLUSH, (PD) PEDESTAL			20.	EL W
	- N = # OF DATA JACKS				AC HC
				04	AC
	COMMUNICATIONS "INFORMATION OUTLET" MOUNTED. AT RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED. MODULE AND			21.	OF
	FACEPLATE			22.	SY WI
	SPECIAL NOTES:				EL
	1. DATA JACKS:				IVI/-
	EACH RJ45 CAT6 JACK FOR DATA SHALL BE CONNECTED TO A DEDICATED UTP 4 PR CAT6 CABLE			SECTIO	N 26
				1	<u></u>
				1. 2.	PR
				3.	CC PR
ABBR	EVIATIONS			3.1	CC
A AMP				0.1.	
AFC ABO	E FINISHED SEILING EQUIP EQUIPMENT E FINISHED FLOOR EXIST EXISTING	MFR	MANUFACTURER	3.2.	
AFG ABO	/E FINISHED GRADE FA FIRE ALARM	MIN MISC	MINIMUM	3.3.	
	CITY GFCI GFCI GFCI GRCUIT	MTD MTG	MOUNTED MOUNTING	3.4.	
AVVG AME	W FINISHED CEILING GND GROUND	NEC PNI	NATIONAL ELECTRICAL CODE PANEL	4.	PR
BFG BELC	W FINISHED GRADE HGT HEIGHT	PVC		5.	DC
CAB CABI	NET HVAC HEATING/VENTILATING/	REC RGS	REGEPTAGLE RIGID GALVANIZED STEEL	6.	US
CKT CIRC CLG CEIL	UII AIR CONDITIONING NG HV HIGH VOLTAGE	SPD TYP	SURGE PROTECTION DEVICE		LU PR
				7	
CL CEN	JERLINE JB JUNCTION BOX	UON		1.	

WP

WEATHER PROOF

XFMR TRANSFORMER

kWH

LTG

MAX

KILO-WATT-HOURS

LIGHTING

MAXIMUM

DRAWING(S)

ENCLOSED CIRCUIT BREAKER

FACH

DWG

EA

ECB

CTRICAL SPECIFICATIONS

00 - COMMON WORK RESULTS FOR ELECTRICAL

ELECTRICAL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS. THIS SHALL INCLUDE BUT NOT BE FED TO THE FOLLOWING

A. NFPA 70 NATIONAL ELECTRICAL CODE (2014 EDITION)

3. FLORIDA BUILDING CODE (SIXTH EDITION 2017) C. NFPA 72 NATIONAL FIRE CODE (2013 EDITION)

D. FLORIDA FIRE PREVENTION CODE (SIXTH EDITION)

. LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION

IZE GOOD WORKMANSHIP FOR THE INSTALLATION OF ALL WORK. INSTALL WORK LEVEL, PLUMB, AND TRUE WITH THE BUILDING STRUCTURE AND LS. SECURE ALL WORK IN PLACE WITH SUPPORTS THAT ARE SUFFICIENT IN SIZE AND QUANTITY TO PERMANENTLY SUPPORT THE WORK IN

ORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

DEMOLITION OF EXISTING AND/OR THE STOCKING OF NEW BUILDING MATERIALS SHALL NOT HINDER OR INTERFERE WITH EMERGENCY ACCESS TO THE PERTY OR VICINITY THEREOF (INCLUDING FIRE LANES). MATERIALS SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. (IE. UL, CSA, MET, ETC)

MATERIALS SHALL BE NEW AND FREE FROM DEFECT, EXCEPT WHERE SPECIFICALLY SHOWN TO REUSE EXISTING MATERIALS.

WORK SHALL BE SUITABLE FOR THE ENVIRONMENT THAT IT IS INSTALLED. DRDINATE THE INSTALLATION OF THE UTILITY TRANSFORMER WITH THE APPROPRIATE POWER COMPANY. CONFIRM WITHIN 10 DAYS OF THE AWARD OF TRACT THAT THE AVAILABLE FAULT CURRENT AT THE TRANSFORMER SECONDARY BUSHINGS DOES NOT EXCEED THE DESIGNED FAULT CURRENT AT SERVICE ENTRANCE EQUIPMENT. NOTIFY THE ENGINEER IMMEDIATELY IF THE DESIGNED FAULT CURRENT IS EXCEEDED.

RK SHALL BE PERFORMED IN ACCORDANCE WITH THE SCHEDULE PROVIDED BY THE OWNER/GC. CONTRACTOR SHALL SUPPLY ALL MANPOWER LUDING SHIFT WORK, OVERTIME, AND HOLIDAYS) AND MATERIALS AS REQUIRED TO COMPLY WITH THIS SCHEDULE.

THE SITE OF THE PROPOSED PROJECT TO BECOME FAMILIAR WITH CONDITIONS AND NATURE OF THE WORK PRIOR TO SUBMITTING BIDS. NOTIFY THE INEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION PRIOR TO SUBMITTING BIDS. SUBMISSION OF A PROPOSAL WILL BE ENCE THAT SUCH FAMILIARIZATION HAS BEEN ATTAINED.

DEMOLISHED ITEMS SHALL BE DISPOSED OF OR RECYCLED OFF SITE IN ACCORDANCE WITH STATE STATUTES UNLESS NOTED SPECIFICALLY TO BE NED OVER TO OWNER. RE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF CONDUIT, DIFFERENT LOCATIONS OF EQUIPMENT, ETC. THE

TRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT OME APPARENT AT A LATER DATE, AND SHALL BE RESPONSIBLE FOR ALL COST AND CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, CIENCIES OR PROBLEMS THAT INCREASE COST, INCREASE CONSTRUCTION TIME OR CREATE CODE VIOLATIONS. RMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE

THE ENGINEER. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE LOCATED EXACTLY AS WN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES FOR LOCATION AND BURIAL DEPTHS WILL BE REQUIRED AND ANY SUCH REQUIRED ATIONS SHALL BE CONSIDERED PART OF THIS SCOPE OF WORK. SITE UTILITY INFORMATION IS NOT GUARANTEED, THEREFORE THE CONTRACTOR LL FIELD VERIFY THE EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO BEGINNING WORK. PROTECT ANY EXISTING UTILITIES TO AIN FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.

IVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE PLANS AND SPECIFICATIONS ARE ENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL BECOME THOROUGHLY UAINTED WITH THE MECHANICAL, PLUMBING, ARCHITECTURAL, STRUCTURAL, CIVIL AND ELECTRICAL PLANS BEFORE SUBMITTING BIDS. NO ITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH THE PROJECT.

HROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR OR IS CAPABLE OF E THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING PRIOR TO MISSION OF A BID. THE ARCHITECT OR ENGINEER SHALL MAKE CORRECTION OR CLARIFICATION IN WRITING. NO ADDITIONAL COMPENSATION WILL BE WITTED FOR WORK OR MATERIALS WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED IT COMES WITHIN A REASONABLE INTERPRETATION THE DRAWINGS AND SPECIFICATIONS

IVIDE TEMPORARY LIGHTING AND POWER FOR THE PROJECT IN ACCORDANCE WITH OSHA STANDARDS. ADEQUATE DISTRIBUTION AND OUTLETS SHALL PROVIDED TO POWER ALL CONTRACTORS 120V SINGLE PHASE TOOLS WITHIN 100' OF ALL WORK SPACES. SYSTEMS SHALL BE TESTED FOR PERFORMANCE VERIFICATION IN THE PRESENCE OF THE OWNER, AT THE COMPLETION OF THE PROJECT. ALLOW 4 IRS FOR TRAINING OWNERS PERSONNEL ON ALL SYSTEMS.

CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT TO BE COMPLETELY FREE OF INTERNAL DEBRIS, EXTERIOR PAINT/MARKS, AND DIRT. IVIDE 1 YEAR WARRANTY FOR ALL MATERIALS AND LABOR FROM THE DATE OF CERTIFICATE OF OCCUPANCY.

TRACTOR PERFORMING ANY PART OF THIS SCOPE OF WORK SHALL BE A STATE CERTIFIED (TYPE E.C. LICENSE) ELECTRICAL CONTRACTOR. PROVIDE) SUPERINTENDENT WHO HAS A MINIMUM OF FOUR (4) YEARS PREVIOUS SUCCESSFUL EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND PLEXITY. SUPERINTENDENT SHALL BE ON THE SITE AT ALL TIMES DURING CONSTRUCTION AND MUST HAVE AN ACTIVE JOURNEYMAN OR MASTER CTRICAL LICENSE FOR THE JURISDICTION WHERE THE WORK IS BEING PERFORMED.

RK IS IN CONNECTION WITH EXISTING BUILDINGS WHICH MUST REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. WORK SHALL BE IN ORDANCE WITH THE SCHEDULE REQUIRED BY THE CONTRACT. SCHEDULE WORK FOR MINIMUM OUTAGES ACCEPTABLE TO OWNER. NOTIFY OWNER 72 RS IN ADVANCE OF ANY SHUT-DOWN OF EXISTING SYSTEMS. PERFORM WORK DURING NON-SCHOOL OPERATING HOURS UNLESS OTHERWISE. EPTED BY OWNER. PROTECT EXISTING BUILDINGS AND EQUIPMENT DURING CONSTRUCTION.

USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. THE REQUIREMENTS OF THIS SPECIFICATION FOR COMPLETE AND OPERATING ELECTRICAL TEMS SHALL BE MET WITHOUT THE USE OF ASBESTOS OR PCB.

IN 30 DAYS OF SYSTEM ACCEPTANCE, CONTRACTOR IS TO PROVIDE THE OWNER WITH AS-BUILT DRAWINGS OF THE SINGLE LINE DIAGRAM OF THE CTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATIONS OF EQUIPMENT SERVED. ALSO, PROVIDE OPERATIONS AND MAINTENANCE UALS FOR EQUIPMENT REQUIRING MAINTENANCE AND THE CONTACT INFORMATION FOR A QUALIFIED SERVICE AGENCY.

19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

POWER CONDUCTORS SHALL BE COPPER WITH DUAL RATED THHN/THWN 600V INSULATION. VIDE ALL FEEDERS WITH CONDUCTORS SIZED SUCH THAT THEY DO NOT EXCEED 2% VOLTAGE DROP PER FBC ENERGY

SERVATION C405.7.3.1 IVIDE ALL BRANCH CIRCUITS WITH CONDUCTORS SIZED SUCH THAT THEY DO NOT EXCEED 3% VOLTAGE DROP PER FBC ENERGY

ISERVATION C405.7.3.2. THE FOLLOWING METHOD SHALL BE USED FOR TYPICAL BRANCH CIRCUITS: ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS LESS THAN 60' IN LENGTH FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL UTILIZE

#12 MINIMUM THROUGHOUT AND #12 GROUND. ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 60' TO 120' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL

UTILIZE #10 MINIMUM THROUGHOUT AND #10 GROUND, UNLESS OTHERWISE NOTED. ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 120' to 240' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 8 CONDUCTOR MINIMUM THROUGHOUT AND #8 GROUND, UNLESS OTHERWISE NOTED.

ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS GREATER THAN 240' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 6 CONDUCTOR MINIMUM THROUGHOUT AND #6 GROUND, UNLESS OTHERWISE NOTED.

IVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL DIMMER CIRCUITS FROM THE LOAD BACK TO THE DIMMER.

NOT PULL CONDUCTORS INTO CONDUIT UNTIL CONDUIT IS COMPLETE FROM END TO END AND ALL WORK, WHICH MAY CAUSE DAMAGE CONDUCTORS, IS COMPLETED.

PULLING MEANS THAT WILL NOT DAMAGE CABLES OR RACEWAY. USE MANUFACTURERS APPROVED PULLING COMPOUND OR RICANT WHERE NECESSARY. DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL SSURE VALUES.

ITEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF UFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B. PLICES SHALL BE MADE IN JUNCTION BOX, AND OUTLET BOXES (WIRE NO. 6 AND LARGER) WITHOUT WRITTEN ACCEPTANCE OF

ALL INTERIOR POWER AND LIGHTING TAPS AND SPLICES IN NO. 8 OR SMALLER SHALL BE FASTENED TOGETHER BY MEANS OF "SPRING TYPE" CONNECTORS. ALL TAPS AND SPLICES IN WIRE LARGER THAN NO. 8 SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS AND TAPED TO PROVIDE INSULATION EQUAL TO WIRE.

ALL EXTERIOR BELOW GRADE POWER AND LIGHTING TAPS AND SPLICES SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS AND COVERED WITH RAYCHEM HEAVYWALL CABLE SLEEVES (TYPE CRSM-CT, WCSM OR MCK) WITH TYPE "S" SEALANT COATING WITH SLEEVE KITS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS OR BE TERMINATED/CONNECTED TO IN ABOVE GRADE TERMINAL BOXES SUITABLE FOR SUCH EXTERIOR USE.

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

10.

PROVIDE CONTINUOUS GROUNDING SYSTEM IN ACCORDANCE WITH NEC 250 AND AS INDICATED.

PROVIDE COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.

PROVIDE AT LEAST (3) 30' X 3/4" COPPER GROUND RODS SPACED 30' APART TO FORM A DELTA FOR THE GROUNDING ELECTRODE. TEST GROUND RESISTANCE OF THE DELTA RODS TO BE 5 OHM OR LESS WITHOUT CONNECTION TO THE REMAINDER OF THE GROUNDING ELECTRODE. IF RESISTANCE IS GREATER THAN 5 OHMS, DRIVE ADDITIONAL GROUND RODS TO ACHIEVE 5 OHMS OR LESS. EFFECTIVELY GROUNDED METAL WATER PIPING, STRUCTURAL STEEL, UFER GROUNDS, COUNTERPOISE AND GROUND RODS SHALL BE CONNECTED TO

FORM THE GROUNDING ELECTRODE IN ACCORDANCE WITH NEC 250. PROVIDE THE GROUNDING ELECTRODE CONDUCTOR IN ACCORDANCE WITH NEC 250. EQUIPMENT GROUND CONDUCTORS SHALL BE INSULATED AND HAVE A CONTINUOUS OUTER FINISH THAT IS GREEN. EQUIPMENT GROUNDING CONDUCTORS LARGER THAN #6AWG SHALL BE PERMITTED TO BE PERMANENTLY IDENTIFIED AT ONLY THOSE POINTS WHERE THE CONDUCTOR IS ACCESSIBLE

GROUND BARS SHALL BE COPPER OF THE SIZE AND DESCRIPTION AS SHOWN ON THE DRAWINGS. IF NOT SIZED ON DRAWINGS, BUS BAR SHALL BE MINIMUM 1/4" X 4" BUS GRADE COPPER, SPACED FROM WALL ON INSULATING 2" POLYESTER MOLDED INSULATOR STANDOFF/SUPPORTS, AND BE 12" OR GREATER MINIMUM OVERALL LENGTH, ALLOWING 2" LENGTH PER LUG CONNECTED THERETO. INCREASE OVERALL LENGTH AS REQUIRED TO FACILITATE ALL LUGS REQUIRED WHILE MAINTAINING 2" SPACING. SIZE OF BUS BAR USED IN MAIN ELECTRICAL ROOM SHALL BE SIMILAR EXCEPT MINIMUM OF 4" HIGH AND 24" LONG.

ALL CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC WELDED UNLESS OTHERWISE NOTED HEREIN. ALL CONNECTIONS ABOVE GRADE AND IN ACCESSIBLE LOCATIONS MAY BE BY EXOTHERMIC WELDING OR BY BRAISING OR CLAMPING WITH DEVICES UL LISTED AS SUITABLE FOR USE EXCEPT IN LOCATIONS WHERE EXOTHERMIC WELDING IS SPECIFICALLY SPECIFIED IN THESE SPECIFICATIONS OR CALLED FOR ON DRAWINGS. BOND LIGHTNING PROTECTION SYSTEM GROUNDS TO ELECTRICAL SERVICE SYSTEM GROUND, ALL PIPING ENTERING OR LEAVING ALL BUILDINGS, AND

COUNTERPOISE SYSTEM GROUND WHERE PROVIDED. ONE 30 FT. GROUND ROD ELECTRODE SHALL BE DRIVEN VERTICALLY TO A MINIMUM DEPTH OF 30 FT. PLUS 1 FT. BELOW GRADE IN EACH MANHOLE. HANDHOLE OR PULLBOX (IN GROUND). BOND ROD TO METAL COVER WITH APPROPRIATE LUG AND BARE CU CONDUCTOR.

ELECTRICAL SYMBOLS LEGEND AND SPECIFICATIONS

SECTION 26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

- APPROPRIATE UL LISTED FIRE PENETRATION DETAILS.

- OF MOTORS, TRANSFORMERS AND OTHER EQUIPMENT WITH VIBRATION.

- PROVIDE OUTLET BOXES THAT ARE CAST ALUMINUM WITH THREADED HUBS FOR EXPOSED DAMP OR WET LOCATIONS.
- STAINLESS STEEL OR PVC BOXES IF EXPOSED TO CORROSIVE ENVIRONMENT

- 15. OTHER
- 16. SYSTEM DEVICES PRIOR TO THE INSTALLATION OF BOXES AND CONDUIT.
- VERTICALLY CENTERED AND ALIGNED WITH THE TILE JOINTS.
- CEILING PLAN, CONSULT THE ARCHITECT AND LOCATE ACCORDINGLY.
- BACKSPLASH IF SO EQUIPPED)
- INSTALL LIGHTING FIXTURE BOXES SHOWN WALL MOUNTED ABOVE MIRRORS CENTERED WITH THE MIRROR AND 1" FROM THE BOTTOM OF THE BOX OR 21.
- FIXTURE TO THE TOP OF THE MIRROR.

SECTION 26 51 00 - LIGHTING FIXTURES

- FOR 90 MIN BACK UP OF FIXTURES AS INDICATED ON THE PLANS.
- APPROPRIATE SLOPED CEILING ADAPTERS FOR SLOPED CEILINGS.

SECTION 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

- LETTERS TO INDICATE THE PANEL AND CIRCUIT NUMBER OF EACH CONDUCTOR.
- UNDERGROUND LINE SHALL BE INSTALLED OVER ALL UNDERGROUND CONDUITS.
- PANELBOARD OR DISTRIBUTION EQUIPMENT.
- MARKING SHALL ENCIRCLE THE CONDUCTOR OR INSULATION.
- ACCESSIBLE POINT AND AT EACH TERMINATION POINT IN LIEU OF CONTINUOUS COLOR CODING.
- THE MOST CURRENT VERSION OF NFPA 70E.

SECTION 26 27 26 - WIRING DEVICES

- LIGHT SWITCHES SHALL BE 20A, 120/277V, SPECIFICATION GRADE, TOGGLE. PROVIDE SINGLE POLE, DOUBLE POLE, 3 WAY, OR 4 WAY AS INDICATED.

- THE NORMAL AND EMERGENCY SYSTEMS. PRACTICE OF "LOOPING" CONDUCTORS THROUGH RECEPTACLE BOXES SHALL NOT BE ACCEPTABLE.

SECTION 27 26 26 - TELEPHONE/DATA/CATV

JACKS EACH.

DO NOT COMPLY.

- 1. UTILIZE THE FOLLOWING COLOR CODE FOR CATEGORY 6 COMPONENTS. (VOICE-"PURPLE") AND (DATA-"PURPLE"). EACH OF THE FOLLOWING COMPONENTS SHALL BE COLOR MATCHED TO ALLOW FOR SYSTEM "COLOR CODING" CAT. 6 CABLE JACKET, PATCH CORDS AND CAT. 6 JACKS.
- (TDMM) AND TELECOMMUNICATIONS INSTALLATION MANUAL.

3. BLANKS (OFFICE WHITE): #SFB10 (10 PACK)

ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

9. COMPLY WITH ALL OWNERS REQUIREMENTS.

ALL WIRING SHALL BE INSTALLED IN ADEQUATELY SIZED CONDUIT UNLESS OTHERWISE NOTED. USE 3/4" MINIMUM FOR ALL CONDUITS. CONCEAL ALL CONDUITS IN WALLS, ABOVE FINISHED CEILING, IN FLOOR SLABS AND UNDERGROUND EXCEPT IN MECHANICAL AND ELECTRICAL ROOMS. CREATE ALL OPENINGS FOR CONDUIT PENETRATIONS THROUGH WALLS, SLABS, AND ROOF OPENINGS. SEAL ALL PENETRATIONS APPROPRIATELY. PROVIDE PROPER FIRE PENETRATION SEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS, CEILING, AND FLOORS IN ACCORDANCE WITH THE

COORDINATE THE INSTALLATION OF ALL CONDUITS WITH STRUCTURAL, MECHANICAL, PLUMBING, AND OTHER CONTRACTORS PRIOR TO INSTALLATION. USE SCHEDULE 40 PVC FOR ALL EXTERIOR BELOW GRADE WORK. USE GRC FOR EXPOSED EXTERIOR WORK. SWEEPS SHALL BE UTILIZED FOR ALL UTILITY CONDUITS AND AS NEEDED BY THE CONTRACTOR FOR PULLING PURPOSES.

EMT SHALL BE USED FOR ALL INTERIOR WORK EXCEPT USE GRC WHERE CONDUIT IS SUBJECT TO DAMAGE. STEEL SET SCREW INSULATED THROAT FITTINGS SHALL BE USED IN DRY LOCATIONS. STEEL COMPRESSION INSULATED THROAT FITTINGS SHALL BE USED IN WET OR DAMP LOCATIONS. USE FLEXIBLE METAL CONDUIT IN DRY LOCATIONS AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT IN DAMP OR WET LOCATIONS FOR THE FINAL CONNECTION

ALL UNUSED OR SPARE CONDUITS SHALL BE CAPPED AND LABELED (OPPOSITE END LOCATION AND USE) AT BOTH ENDS. PROVIDE WITH A PULL STRING. ALL CONDUIT AND CABLE SUPPORTS SHALL BE LISTED AND LABELED FOR THEIR INTENDED INSTALLATION. TIE WIRE SHALL NOT BE UTILIZED FOR SUPPORT PROVIDE OUTLET BOXES THAT ARE 4" SQUARE STEEL WITH PLASTER RING SIZED IN ACCORDANCE WITH THE NEC FOR DRY LOCATIONS. USE MINIMUM 1 1/2" DEEP BOXES. COORDINATE THE APPROPRIATE RING TYPE WITH THE DEVICE OR FIXTURE TO BE INSTALLED.

USE NEMA 1 RATED BOXES FOR PULL BOXES IN DRY LOCATIONS. USE NEMA 3R RATED BOXES FOR ALL EXTERIOR ABOVE GROUND PULL BOXES. USE

EXTERIOR IN GROUND BOXES SHALL BE NEMA 6 RATED FOR UNDERWATER SUBMERSION. PROVIDE APPROPRIATE CONCRETE RING AND COVER OVER NEMA 6 BOXES FOR ACCESS AND MECHANICAL PROTECTION. PROVIDE TRAFFIC RATED COVERS FOR CONCRETE RINGS IN ALL AREAS. FLOOR BOXES FOR SLAB ON GRADE SHALL BE PVC WITH BRASS COVERS AND RINGS. FLOOR BOXES IN ALL OTHER RATED FLOORS SHALL BE DEEP CAST STEEL WITH BRASS COVERS AND RINGS. UTILIZE POKE THRU BOXES WITH BRASS COVERS FOR USE IN EXISTING FIRE RATED FLOORS. COORDINATE ALL POWER AND SYSTEM DEVICE BOX LOCATIONS SO THAT THEY ARE LOCATED AT THE SAME HEIGHT WHEN LOCATED ADJACENT TO EACH

THIS CONTRACTOR SHALL GET FINAL APPROVAL FROM THE ARCHITECT FOR THE LOCATIONS OF ALL EXTERIOR LIGHT FIXTURES, POWER OUTLETS, AND

ITEMS LOCATED IN TILE SURFACES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE DIMENSIONS GIVEN AND SHALL BE HORIZONTALLY AND

LOCATE CEILING MOUNTED ITEMS AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS. WHERE ITEMS ARE NOT SHOWN ON THE REFLECTED 19. WHERE INSTALLATION ABOVE COUNTER IS INDICATED, INSTALL ITEM 1" FROM THE BOTTOM OF THE BOX OR ITEM TO THE TOP OF THE COUNTER (OR

INSTALL FIXTURE BOXES ABOVE DOORS A MINIMUM OF 1" FROM THE BOTTOM OF THE BOX OR FIXTURE TO THE TOP OF THE DOOR FRAME. PRIOR TO BOX INSTALLATION, VERIFY THAT THERE IS SUFFICIENT WALL SPACE ABOVE THE DOOR IS AVAILABLE FOR THE ITEM TO BE INSTALLED.

22. THE CONTRACTOR SHALL VERIFY THE EXACT DIRECTION OF ALL DOOR SWINGS PRIOR TO THE ROUGH IN OF BOXES MOUNTED IN WALLS.

PROVIDE ALL FIXTURES AS INDICATED IN THE FIXTURE SCHEDULE INCLUDING MATCHING LAMP(S) FOR EACH FIXTURE. ALL FIXTURES MUST BE UL LABELED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES. ALL EMERGENCY FIXTURES SHALL PROVIDE BATTERY BACK-UP FOR 90 MIN UPON LOSS OF POWER. PROVIDE 1100 LUMEN EMERGENCY BATTERY PACKS

PROVIDE FIXTURE SUPPORTS TO ALLOW FOR A REDUNDANT SUPPORT (ALLOW FOR FAILURE OF ONE SUPPORT POINT) FOR ALL FIXTURES. PROVIDE

COORDINATE THE CEILING TRIM TYPE WITH THE ACTUAL CEILING TO BE INSTALLED.

PROVIDE ENGRAVED LABELS FOR ALL LOADCENTERS, PANELBOARDS, DISTRIBUTION PANELBOARDS, SWITCHBOARDS, SWITCHBOARD/DISTRIBUTION PANEL MOUNTED CIRCUIT BREAKERS, DISCONNECT SWITCHES AND TRANSFORMERS THAT IDENTIFY THE ITEM OR LOAD SERVED, VOLTAGE, AMPERAGE AND WHERE IT ORIGINATES. SCREWS SHALL BE USED TO ATTACH THE LABELS (DO NOT USE TAPE OR ADHESIVE). FIRST LINE SHALL HAVE WHITE 3/8" LETTERS AND ALL OTHER LINES SHALL BE 1/4" LETTERS. LABELS SHALL BE BLACK FOR "NORMAL POWER" AND RED FOR "EMERGENCY POWER". TYPED CIRCUIT DIRECTORIES SHALL BE PROVIDED FOR EACH LOADCENTER OR PANELBOARD INDICATING THE LOAD SERVED AND ROOM IDENTIFICATION.

LABEL EACH JUNCTION BOX WITH INDELIBLE MARKER AS TO THE SYSTEM WITHIN OR CIRCUIT NUMBERS CONTAINED WITHIN. POWER CONDUCTORS SHALL BE LABELED WITH VINYL OR VINYL-CLOTH, SELF ADHESIVE, WRAPAROUND TYPE LABELS WITH PREPRINTED NUMBERS AND PERMANENT, BRIGHT COLORED, CONTINUOUS PRINTED, VINYL UNDERGROUND WARNING TAPE WITH PRINTED LEGEND THAT INDICATES THE TYPE OF

GROUNDED CONDUCTORS #6 AWG AND SMALLER SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OUTER FINISH FOR 240 OR 208 V SYSTEMS AND SHALL BE

IDENTIFIED BY A CONTINUOUS GRAY OUTER FINISH FOR 480V SYSTEMS. THIS IDENTIFICATION SHALL BE PERMANENTLY POSTED AT EACH BRANCH CIRCUIT

GROUNDED CONDUCTORS LARGER THAN #6 AWG SHALL BE IDENTIFIED AT THE TIME OF INSTALLATION BY A DISTINCTIVE WHITE MARKING AT ITS TERMINATION FOR 240v OR 208v SYSTEMS AND SHALL BE INDENTIFIED BY A DISTINCTIVE GRAY MARKING AT ITS TERMINATION FOR 480v SYSTEMS. THIS THE FOLLOWING COLOR CODING SHALL BE UTILIZED FOR ALL CURRENT CARRYING CONDUCTORS. CONTINUOUS COLOR CODED INSULATION SHALL BE

BLACK, RED, BLUE FOR 240V OR 208 V SYSTEMS AND BROWN, ORANGE, YELLOW FOR 480V SYSTEMS. 1" WIDE COLORED TAPE ENCIRCLING THE CONDUCTOR EVERY 2" FOR THE ENTIRE EXPOSED CONDUCTOR MAY BE UTILIZED FOR COLOR CODING CONDUCTORS LARGER THAN #6 AT EACH

PROVIDE ARC FLASH LABELING OF ALL ELECTRICAL PANELS, SWITCHGEAR, TRANSFORMERS, DISCONNECTS, ENCLOSED CIRCUIT BREAKERS, CONTROL PANELS, AND MOTOR CONTROLLERS IN ACCORDANCE WITH NFPA 70 110.16. ARC FLASH CALCULATIONS REQUIRED FOR THE LABEL SHALL BE PROVIDED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA AS PART OF THIS CONTRACT. LABEL SHALL INCLUDE ALL INFORMATION AS REQUIRED BY

THE COLOR OF WIRING DEVICES SHALL BE SELECTED BY THE ARCHITECT FROM IVORY, WHITE, BLACK, BROWN, OR GRAY.

GENERAL USE RECEPTACLES SHALL BE 20A, 120V, SPECIFICATION GRADE, HEAVY DUTY, N5-20R.

GROUND FAULT INTERRUPTING RECEPTACLES SHALL BE 20A. 120V. HEAVY DUTY, SPECIFICATION GRADE, N5-20R.

PROVIDE HIGH IMPACT THERMOPLASTIC 1MM THICK WALL PLATES FOR ALL DEVICES. PROVIDE A SINGLE PLATE FOR MULTIPLE GANG MOUNTED DEVICES. IN WET LOCATIONS PROVIDE METALLIC SPRING LOADED LIFT COVERS LISTED AND LABELED FOR USE IN WET LOCATIONS WHILE "IN USE". ALL RECEPTACLES AND SWITCHES SHALL BE GROUNDED BY MEANS OF A GROUND WIRE FROM DEVICE GROUND SCREW TO OUTLET BOX SCREW AND

BRANCH CIRCUIT GROUND CONDUCTOR. STRAP ALONE WILL NOT CONSTITUTE AN ACCEPTABLE GROUND. UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP

ADJACENT SWITCHES OR RECEPTACLES UNDER MULTIGANG WALL PLATES. PROVIDE PROPER NEC BARRIERS IN BOXES WHICH SERVE DEVICES FOR BOTH AT EACH RECEPTACLE "IN" AND "OUT" PHASE AND NEUTRAL CONDUCTORS SHALL HAVE AN ADDITIONAL CONDUCTOR FOR CONNECTION TO DEVICE. THE

2. GENERAL: CABLE ROUTING AND INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH BICSI'S TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL

3. AVOIDING EMI: TO AVOID EMI, ALL PATHWAYS SHALL PROVIDE CLEARANCES OF AT LEAST 4 FEET (1.2 METERS) FROM MOTORS OR TRANSFORMERS; 1 FOOT (12 INCHES) FROM CONDUIT AND CABLES USED FOR ELECTRICAL POWER DISTRIBUTION; AND 1 FOOT (12 INCHES) FROM FLUORESCENT LIGHTING. PATHWAYS SHALL CROSS PERPENDICULAR TO FLUORESCENT LIGHTING AND ELECTRICAL POWER CABLES AND CONDUITS.

4. GENERAL: COMMUNICATIONS OUTLETS THAT CONTAIN COPPER SERVICES SHALL BE EQUIPPED WITH ANSI/TIA/EIA-568-B.2-1 CATEGORY 6, 8-POSITION MODULAR JACKS (RJ45 TYPE) UTILIZING T568A WIRING. ALL OUTLET CABLING SHALL TERMINATE ON APPROPRIATE TERMINATION BLOCKS AT THEIR ASSOCIATED IDF. OUTLET JACK MODULE ARRANGEMENT AND QUANTITIES ARE SHOWN ON THE DRAWINGS. OUTLETS SHALL BE CERTIFIED TO OPERATE AT 1000 MBPS DATE SPEED WITH TWISTED PAIR TERMINAL WIRING AS VERIFIED BY ETL OR UL. FACEPLATES SHALL BE ABLE TO ACCOMMODATE UP TO 6, 8-POSITION MODULAR

5. DESIGN SELECTION: HUBBELL PREMISE WIRING XCELERATOR, AS FOLLOWS. SEE DRAWING DETAILS FOR EXACT OUTLET CONFIGURATIONS 1. WALL FACEPLATE (OFFICE WHITE): #IFP16OW (6 PORT)

2. PDS JACKS (PURPLE): #HXJ6P OR #HXJ6P25 (25 PACK)

a. PROVIDE BLANK MODULE INSERTS FOR ALL UNUSED MODULE LOCATIONS.

6. OUTLET LABELING: EACH JACK ON ALL OUTLETS SHALL BE IDENTIFIED WITH PERMANENT MACHINE GENERATED LABELS, MEETING THE EIA/TIA 606 REQUIREMENTS, MATCHING THE NUMBERING PLAN INDICATED ON THE DRAWINGS WITH THE ADDITION OF A LETTER SUFFIX INDICATING THE JACK POSITION ON THE FACEPLATE. ALL LABELING MUST BE PERMANENT. ALL LABELING SHALL BE A MINIMUM 12 PT. IN SIZE. ALL LABELING SYSTEMS SHALL BE SUBMITTED TO THE

7. INSTALLATION OF CAT. 6 UTP CABLE SHALL BE IN ACCORDANCE WITH EIA/TIA GUIDELINES FOR CAT. 6. REPLACE CABLE INSTALLATION AND TERMINATIONS THAT

8. ALL CABLE RUNS SHALL CONTAIN SERVICE SLACK PRIOR TO THE TERMINATION POINT. PROVIDE 12-INCH SERVICE SLACK IN THE CEILING ABOVE EACH OUTLET.

ND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.		S ENC 935 O WWW.: COPYRIGHT	CA-000 LAKE BA RLANDO TEL: 407- FAX: 407- SGMENG 2019 SC	ERING 06208 LDWIN LANE 9, FL. 32814 767-5188 767-5772 INFERING.COM GM ENGINEERING, INC.
ENSIONS WITH THE ENGINEER. CONTRACTOR SHALL CHECK	DA	Name: TI DAY PUBLIC 950 E YTON/	HE C TON C WO BELL A BE	EVUE AVE ACH, FL 32114
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veering, inc. do not scale drawings. Use given dimi	No.	Date	Desc	ription
RMAL WITHOUT PRIOR WRITTEN CONSENT OF SGM ENGIN	Projec	ct Name:		
IOLE OR PARI IN ANY FORM OR FO	Drawi			ELL POOL BUILDING
IS SHALL NOT BE USED OR REPRODUCED IN WH	1600- Seal:	- <u>E001</u> -20200	21.DWG	2020-021 Scale: AS SHOWN Design By: EFO Drawn By: EFO Checked By: JLM Engineer of Record: JUSTIN L. MUNDELL License Number: FL70700
WINGS, WRITTEN MATERIAL, AND DESIGN CONCEP	Sheet	Name: ECTR LE(SPE(ICA Gen Cifi(L SYMBOLS ID AND CATIONS
M ENGINEERING, INC. DRA.	Sheet	Number:	EC	01

GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON SHEET E001.
- b. REFER TO DRAWING SPECIFICATIONS.
- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
- d. CONTRACTOR TO IDENTIFY CONDUITS EXITING PANEL WITH CIRCUIT NUMBER INFORMATION.
- e. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

PLAN KEY NOTES: (#)

- 1. REFER TO ONE LINE DIAGRAM AND PANEL FEEDER SCHEDULE FOR ADDITIONAL INFORMATION.
- ROUTE CONDUIT IN GROUND, FIELD VERIFY EXACT ROUTING PATH OF CONDUIT. SEE DETAIL 2 ON SHEET E701 FOR ADDITIONAL INFORMATION.
- 3. ROUTE NEW 1" CONDUIT TO EXISTING UTILITY POLE TO NEW TERMINATION BOXES. COORDINATE NEW PHONE AND DATA SERVICE WITH UTILITIES. BRIGHTHOUSE FOR DATA AND AT&T FOR PHONE.

ND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.		S EN 935 C WWW. COPYRIGHT	GINERING CA-00006208 LAKE BALDWIN LANE PRIANDO, FL. 32814 TEL: 407-767-5788 FAX: 407-767-5772 SGMENGINEERING.COM © 2019 SGM ENGINEERING, INC.
WITH THE ENGINEER. CONTRACTOR SHALL CHECK A	Client	Name: T DAY PUBLI 950 E YTON	HE CITY OF TONA BEACH C WORKS DEPT. BELLEVUE AVE A BEACH, FL 32114
ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS			EDBORATED JULY
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TS SHALL			FL70700
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FLOOR PLAN-ELECTRICAL SCALE: 1/4"=1'-0" 0 2' 4' 8'

GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON SHEET E001.
- b. REFER TO BOOK SPECIFICATIONS.
- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
- d. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E701 FOR DISCONNECT, CONDUIT AND WIRE SIZES.
- e. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- f. CONTRACTOR TO SEGREGATE ALL GROUNDS AND NEUTRALS ONTO THE CORRECT BUS.
- g. CONTRACTOR TO CONFIRM THAT THERE IS A GROUND CONDUCTOR FOR EACH LOAD OR THAT THE CONDUIT PATH GROUND IS CONTINUOUS FOR EACH LOAD.
- h. CONTRACTOR TO IDENTIFY CONDUITS EXITING PANEL WITH CIRCUIT NUMBER INFORMATION.
- ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.
- j. CONNECT ALL EMERGENCY BALLAST, EMERGENCY BATTERY UNITS AND EXITS AHEAD OF ALL SWITCHING TO LOCAL LIGHTING CIRCUIT.
- e. MOTION SENSOR LOCATIONS ARE SHOWN FOR GENERAL INFORMATION. LOCATE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. LOCATE MOTION SENSORS A MINIMUM OF 4' AWAY FROM ANY A/C DIFFUSER.

PLAN KEY NOTES: (#)

- PROVIDE NEMA 4X DISCONNECT AND CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION OF DISCONNECT TO PROVIDE ALL REQUIRED CLEARANCES. REFER TO EQUIPMENT FEEDER SCHEDULE FOR DISCONNECT, CONDUIT, AND WIRE SIZES.
- 2. PROVIDE SWITCHES AND CONTROL AS SHOWN IN LIGHT SWITCHING DETAIL 1 ON SHEET E701.
- 3. INSTALL NEW POWER PANEL. COORDINATE WITH PANEL FEEDER
- SCHEDULE AND ONE-LINE ON SHEET E701.4. APPROXIMATE LOCATION OF NEW PHONE AND DATA TERMINAL
- BOXES. COORDINATE EXACT LOCATION WITH UTILITY.
- 5. INSTALL NEW COMBINATION PHONE AND DATA JACK.
- 6. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. COORDINATE WITH MANUFACTURER INSTALLATION LITERATURE.

AT JOB SITE.	SGM
DIMENSIONS AND CONDITIONS	ENGINEERING CA-00006208 935 LAKE BALDWIN LANE ORLANDO, FL. 32814 TEL: 407-767-5188 FAX: 407-767-5772 WWW.SGMENGINEERING.COM
ND VERIFY ALL	Copyright © 2019 SGM Engineering, Inc.
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T BE USED OR	Checked By: JLM Engineer of Record: JUSTIN L. MUNDELL
EPTS SHALL NC	License Number: FL70700
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MATERIAL, ANE	PLANS - ELECTRICAL
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L FEEDE	RS	CHEDU	JLE:				* WI	RESIZE	ES AI	REBASE		-PA 70	TABLE 3	310.1	5(B)	(16) 60) DEG	REE CU (COLUMN	FORSI	ZES OF	100A A	ND LESS	, ALL O	THERS E	ASEDC	N 75 D	EGR
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FE	EDEF	R		VOLTS	PH	NEUT	200%	GRND	ISC	MAIN	LOA	C	DISCO	ONNE	CT			WIRE	NEUT	ADD	GND	ISO	SYST	#	CON	DUIT /	PPROX	
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LIGHTING FIXTURE SCHEDULE														
4X = NEMA 4 W.P. STAINLESS STEEL ENC	L.													
3R = NEMA 3R ENCLOSURE														
ECB = ENCLOSED CIRCUIT BREAKER														
N.F. = NON-FUSED														
ABBREVIATIONS:														
#12 FEEDERS SHOWN AND OVER 100)FT. LONG	TO BE	#10 WI	RE FOR	277V (CIRCUIT	S.							
(6) - #12 FEEDERS SHOWN AND OV ER 50	FT. LONG	TO BE #	‡10 WIF	RE FOR 1	20V C	RCUITS								

		LIC	GHTING FIXTURE SCI	HEDU	LE				
TYPE	DECRIPTION	MFR	CATALOG NUMBER	VOLTS	LAMPS	WATTS	DIMMING	MOUNTING	Notes
A	LED SHALLOW SURFACE MOUNTED 1'X4' LIGHT FIXTURE	H.E. WILLIAMS	PTS-14-L45/835-RA-DIM-UNV	UNV	LED	33.7	0-10V	SURFACE	_
A,EM	LED SHALLOW SURFACE MOUNTED 1'X4' LIGHT FIXTURE WITH BUILT IN 12W LOW PROFILE EMERGENCY BATTERY	H.E. WILLIAMS	PTS-14-L45/835-RA-EM/10WLP- DIM-UNV	UNV	LED	33.7	0-10V	SURFACE	_
S	12" LED STEP LIGHT	SIGNIFY	941L-31L-NW-C-LV-120-TP-BZ	120	LED	32	-	SURFACE	_
F	FLOOD LIGHT	SIGNIFY	FL80-NW-G1-S-FL-8-BZ	120	LED	79	-	SURFACE	_

AICH EATENDATION LOCKER RM TYPE: 3R IDENTIFICATION CKT NO. T S PUMPS 2 4 SPARE 6 IT REC 8 10 12 10 12 14 16 18 20 	TYPE: NQOD RATING: 10 K AMPS TS L-N: 120 V LTS L-L: 240 V PHASE 1 LOAD/PHASE (KV/ ENTIFICATION A B EXTERIOR GFI R 0.18 EXTERIOR GFI R 0.36 RIGERATOR/ICE R 1.20 LIGHTING L 0.20 SPARE I I SPARE I I SPARE I I SPACE I I Image: SPARE Image: SUB FEED Image: SPACE Image: SUB FEED Image: SUB FEED Image: SUB FEED	MCB: 100 AMPS MLO: N/A AMPS S.E RATED: SHUNT TRIP: N/A A) CIRCUIT BREAKER LOAD/PHASE (KVA) TRIP P P TRIP A B 20 1 2 15 0.66 H 20 1 1 20 1.80 0 20 1 1 20 0.08 L 20 1 1 1 0.0 L 20 1 1 1 0.0 L 20 1 1 0 0.08 L 20	LOCATION:EXTERIOR WALLMOUNTING:SURFACENEMA TYPE:3RWIDTH:20.00INDEPTH:5.75INIDENTIFICATIONCKT NO.0 T E SAC-12AC-14FUTURE IRRIGATION TIMER6STEPS LIGHTING8SIGN LIGHTING10SPARE12SPACE14SPACE16SPACE18	SUCCEVENT OF THE OTHER OF THE O	, INC. HEPT. VE . 32114
. TO FEED NEW POOL ENTRY	LIGHTING (L) O.0 CONN LOAD DEMAND (KVA) FACTOR (KVA) 1.74 1.00 1.1 EPTACLES OVER 10KVA(R) 0.00 HVAC EQUIPMENT (H) 1.32 APPLIANCES (A) 0.00 EQUIPMENT (E) 0.00 LARGEST MOTOR (M) 0.00 APARE (S) 0.00 OTHER (O) 1.80 SPARE (S) 0.00 LINKED PANEL (P) INCLUDED IN ABOVE TOTA	IAND TOTAL CONNECTED KVA: 5.24 AD TOTAL CONNECTED AMPS/PH: 22 /A) TOTAL DEMAND KVA: 5.33 47 TOTAL DEMAND AMPS/PH: 22 74 00 00 NOTES: 32 1. PROVIDE ARC FLASH LABELING FOR THAS SPECIFIED. 00 80 00 80 00 ILIS	HE PANEL IN ACCORDANCE WITH NFPA 70 & 70E	ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH	
AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING. D SYST # CONDUIT APPROX VOLT D BOND OF SIZE DIST.** DROP NOTES JUMP RUNS FT VD% L 1 1-1/4" 100 1.92% ACU FUTURE IRRGATION TIMER GENERAL NOTES: (1) - PROVIDE DISC. SW. AT ALL PIECES (2) - FUSES SHOWN FOR REFERENCE O (3) - PROVIDE DISC. SW. AT ALL PIECES (2) - FUSES SHOWN FOR REFERENCE O (3) - PROVIDE NEWA OUTDOOR RATED I (4) - COORDINATE STARTER TYPE WITH (5) - DISCONNECTS BETWEENS MOTOR WIRED TO THE E-STOP OF THE VFE	E: * WIRE SIZES ARE BASED ON VOLTS PH NEUT MOTOR ADDITIONAL Y/N (LARGEST) MOTORS 240 1 Y 5.30 0.22 120 1 Y 5.30 0.22 SOF EQUIPMENT NOT WITHIN SIGHT OF THE OVERCURR NLY, PROVIDE FUSES AS RECOMMENDED BY EQUIP. M ENCLOSURES FOR ALL DISC. SWS MOUNTED OUTDOOI 1 MECHANICAL EQUIPMENT. PROTECTIVE DEVICES WITH THE ACTUAL EQUIPMENT B RS AND VFC'S SHALL BE PROVIDED WITH AN AUXILARY D.	N NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR **DISTANCE SHOWN FOR VOLTA GE DROP CALCU HEAT MISC TOTAL PNL. DISCONNECT STRIPS AMPS AMPS C.B. SIZE FUSE SIZE NI KW AMPS 555 15 30 10 10 10 10 10 10 10 10 10 10 10 10 10	RSIZES OF 100A OR LESS, ALL OTHERS BASED ON 75 DEG ULATION ONLY. ACTUAL DISTANCE MAY VARY DEPENDENT WIRE NEUT GND # CONDUIT APPROX WIRE NEUT GND # CONDUIT APPROX SMA PER WIRE WIRE OF SIZE DIST.** (PE PHASE* RUNS FT #12 #12 #12 1 3/4" 30 1 #12 #12 #12 1 3/4" 30 1 (a)	GGREE COLUMN. Issue: BID SET 04/06/20 NO. Date Description DROP NOTES VD% 0.28% 11.50% 1.50% 11.50%	
SLOPE TO ANGLE OF REPOSE BACKFILL WELL TAMPERED	SELECT BACKFILL	EXISTING MDP	PP1	Project Name: CAMPBELL POC ENTRY BUILDIN Project Name: Campbell Project Num 1600-E701-2020021.0WC Seal: Design By: Drawn By: Checked By: Engineer of I JUSTIN L. W License Num 17070	DL JG DL JG DL JC I S SHOW EF(EF(JLN Record: MUNDELL 1ber: '00
CONDUIT TRENCH No Scale ELECTRICAL SCHEDULES	2	ONE-LINE DIAGRAM No Scale		3 Sheet Number: E701	

EQUIPMENT FEEDER SCHEDUL	E:			* M	IRE SIZE	ES ARE E	BASED	ON NFPA	70 TAE	BLE 310.	15(B)(16	3) 60 D	EGREE	CL
									**D	ISTANCI	E SHOW	N FOR	VOLTA	G
EQUIPMENT	VOLTS	PH	NEUT	MO	TOR	ADDIT	IONAL	HE	AT	MISC	TOTAL	PNL.		D
DESCRIPTION			Y/N	(LAR	GEST)	MOT	ORS	STF	RIPS	AMPS	AMPS	C.B.	SIZE	F
				H.P.	FLA	H.P.	FLA	KW	AMPS			SIZE		
ACU	240	1	Y		5.30		0.22				5.5	15	30	
FUTURE IRRIGATION TIMER	120	1	Y							15.0	15.0	20		
GENERAL NOTES:														
(1) - PROVIDE DISC. SW. AT ALL PIECES	OF EQUI	PMEN	IT NOT	WITHIN	S <mark>IGHT</mark> O	F THE O	VERCUF	RRENT P	ROTECT	IVE DEV	ICE.			
(2) - FUSES SHOWN FOR REFERENCE O	NLY, PRC	V IDE	FUSES	ASRE	COMMEN	DED BY	EQUIP.	MANUF.						
(3) - PROVIDE NEMA OUTDOOR RATED	ENCLOSU	RES	FOR AL	L DISC.	SWS M	OUNTED	OUTDO	ORS.						
(4) - COORDINATE STARTER TYPE WITH	MECHAN	ICAL	EQUIPI	MENT.										
(5) - COORDINATE ALL OV ERCURRENT	PROTECT	NEC	EV ICES	S WITH T	HEACT	UAL EQU	JIPMENT	BEING	SUPPLIE	D. NOT	FY THE	ENGINE	ER	
IF DESCREPINCIES ARE FOUND.														
(6) - DISCONNECTS BETWEENS MOTOR	S AND VI	-C'S	SHALL	BE PRO	V IDED V	VITH AN	AUXILA	RY CON	TACT A	ND				
WIRED TO THE E-STOP OF THE VFD	D.													
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ELECTRICAL

	1	2
	DESIGN SPECIFICATIONS	
	DESIGN IS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 .	
	MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE:	
	FOOTINGS AND SLAB ON GRADE 3000 PSI OTHERS 3000 PSI	
	REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.	
	STRUCTURAL STEEL W-SHAPES SHALL CONFORM TO ASTM A992 GRADE 50.	
	 STRUCTURAL STEEL HSS TUBES SHALL CONFORM TO ASTM A500 GRADE B. STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, AND OTHER ROLLED MEMBERS SHALL 	
	CONFORM TO ASTM A36.	
D	• CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 TYPE ILLIGHT WEIGHT OR NORMAL WEIGHT UNITS.	
	 MORTAR SHALL CONFORM TO ASTM C270 TYPE S. MASONRY GROUT SHALL CONFORM TO ASTM C476 MINIMUM COMPRESSIVE STRENGTH SHALL 	
	 MINIMUM COMPRESSIVE STRENGTH OF UNREINFORCED CONCRETE MASONRY CONSTRUCTION SHALL BE fm = 2500 PSI. 	
	 MINIMUM COMPRESSIVE STRENGTH OF REINFORCED CONCRETE MAONSRY CONSTRUCTION SHALL BE fm = 2500 PSI. 	
	ANCHOR RODS SHALL BE ASTM F1554 GRADE 36.	
	 ASSUMED BEARING CAPACITY FOR SPREAD FOOTINGS IS 2000 PSF. DESIGN LOADS: 	
	MINIMUM ROOF LIVE LOAD 20 PSF	
	WIND LOAD (ASCE 7-10) OCCUPANCY CATEGORY III	
	BASIC WIND SPEED V = 137MPH EXPOSURE C INTERNAL PRESSURE COEFFICIENT GC _{pi} = +/-0.18	
	ALL STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS	
	ENCOUNTERED DURING ERECTION AND CONSTRUCTION. ANY INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE STRUCTURAL FRAMING AND CONNECTIONS FOR ADEQUACY DURING THE ERECTION AND	
	 CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND JOB SITE 	
	SAFETY.	
	GENERAL NOTES	
	EARTHWORK	WOOD FRAMING
С	 PROOF ROLL THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT LEAST 95% OF THE 	 ERECTION OF ALL WOOD FRAMING SHALL CONFORM TO THE NATIONAL FOREST PRODUCTS ASSOCIATION DESIGN SPECIFICATIONS, AMERICAN PLYWOOD ASSOCIATION, AND THE STATE
	MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE NEW SLAB ON GRADE.	 OF FLORIDA BUILDING CODE, LATEST EDITIONS. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL
	 ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE. 	OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE BLACED OR SET IN THE STRUCTURAL WORK
		 LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL
	CONCRETE	NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN SPECIFICATIONS". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING
	 FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION. 	IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
	REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE" LATEST EDITION. UNLESS OTHERWISE NOTED	LAYOUT AND FASTENING SCHEDULE.
	 LAP ALL WALL BARS 36 DIAMETERS UNLESS OTHERWISE DETAILED. 	 WALL AND SOFFIT SHEATHING SHALL BE 5/8-INCH APA RATED ACX SHEATHING. SEE PLAN FOR SHEATHNG LAYOUT AND FASTENING SCHEDULE.
	 CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14. 	SCREWS OF FASCIA, ROOF SHEATHING AND SOFFIT SHALL BE: #12 AT 6 INCHES ON CENTER AT BANEL EDGES
	CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE	#12 AT 12 INCHES ON CENTER AT INTERMEDIATE FRAMING MEMBERS
	DO NOT PLACE OR CUT HOLES IN CONCRETE SLABS, BEAMS, WALLS OR COLUMNS WITHOUT DRIVE ADDROVAL OF THE ENCINEER	 INSTALL ALL SHEATHING WITH THE LONG DIMENSIONS OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS.
	WATER TO CEMENT RATIO SHALL BE EQUAL OR LESS THAN 0.5.	ALLOW 1/8-INCH SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
	 EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 5 PERCENT (+/-1 1/2 PERCENT). 	 ALL SCREWS SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF STAPLES IS PROHIBITED.
	PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER, PIPE AND CONDUITS EMBEDDED IN CONCRETE	WALL AND ROOF SHEATHING SCREWS SHALL BE HOT-DIPPED GALVANIZED.
	SHALL NOT BE LARGER THAN 2 INCHES IN OUTSIDE DIAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL.	 ALL FRAMING EXPOSED TO THE WEATHER SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE
	 ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT: 	TO THE ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STANDARD M4)
	1. THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER. 2. THE CONCRETE COVER IS NOT LESS THAN 2 INCH.	
В	3. THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.	CONCRETE MASONRY
	 PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING. 	PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH
	CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.	"TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION", LATEST EDITION.
	 INTEROR SLABS ON GRADE SHALL BE 6 INCHES THICK AND REINFORCED WITH #5@18" OC BOTH WAYS, MID-DEPTH. 	 HOT AND COLD WEATHER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE IMIAC (INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL) "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT AND COLD WEATHER MASONRY AND CONSTRUCTION".
	STRUCTURAL STEEL	CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
	STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH	 MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND FORCES UNTIL PERMANENT DESIGN SUPPORTS ARE IN PLACE AND FUNCTIONAL. BRACING SHALL BE DESIGNED BY THE CONTRACTOR
	THE AISC "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", JUNE 15, 2016 EDITION.	 PROVIDE DOWELS INTO FOUNDATION THE SAME SIZE AND NUMBER AS WALL REINFORCING.
	 STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE. 	LAP REINFORCING BARS 48 DIAMETERS.
	 ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE. PROVIDE 	 CONCRETE MASONRY WALLS SHALL BE REINFORCED AT EVERY OTHER BED JOINT WITH 9 GAGE LADDER TYPE JOINT REINFORCEMENT.
	 CONTINUOUS MINIMUM SIZED WELDS PER AISC REQUIREMENTS, UNLESS NOTED OTHERWISE. THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TABLE J2.4 IN THE AISC 	 VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNOBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES.
	"STEEL CONSTRUCTION MANUAL".	 ALL BOND BEAMS AND PILASTERS SHALL BE REINFORCED AS SHOWN ON THE DESIGN DRAWINGS AND FILLED WITH GROUT.
	DRAWINGS, ALL SHOP AND FIELD WELDS SHALL DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER OF ELEMENT JOINED. ALL MEMBERS WITH MOMENT CONNECTIONS, NOTED ON	 ALL DOOR AND WINDOW JAMBS SHALL BE GROUTED SOLID 8 INCHES WIDE UNLESS SHOWN OTHERWISE.
	THE DRAWINGS, SHALL BE WELDED TO DEVELOP THE FULL FLEXURAL CAPACITY OF THE MEMBER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.	WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW BEAM DEACTIONS SHALL BE 16 INCHES DEED BY 22 INCHES LONG
	 COLUMN BASE PLATES SHALL HAVE OVERSIZED HOLES WITH PLATE WASHERS (MINIMUM 3/8- INCH THICK) PROVIDED WITH ANCHOR RODS. 	 WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW LINTEL
	 GROUT UNDER BASE PLATES IN ACCORDANCE WITH THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", JUNE 15, 2016 EDITION. 	 REACTIONS SHALL BE 16 INCHES DEEP BY 16 INCHES LONG. PROVIDE BOND BEAM WITH (2) #5 x CONTINUOUS AT EACH FLOOR LEVEL.
	 CLEAN, PREPARE, AND SHOP PRIME EXTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-6. 	PROVIDE CONTROL JOINTS AT 25'-0" OC MAXIMUM SPACING.
	WHILE THE DESIGN DOCUMENTS MAY REFERENCE OSHA, THEY ARE NOT INTENDED TO SPECIFICALLY IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. IT IS THE CONTRACTOR'S	CONTROL JOINTS SHALL BE PLACED A MINIMUM 16' AWAY FROM LINTEL BEARING LOCATIONS.
A	RESPONSIBILITY TO IDENTIFY AND COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.	
	GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.	

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SYMBOL LEGEND

3

ADHESIVE ANCHOR

STEEL LEGEND

	 STEEL ROOF DECK (LONGITUDINAL)	
/	 STEEL ROOF DECK (TRANSVERSE)	<u>T</u> BOT
)))	© ◎ BOLT ◎	<u>т</u> вот т
)	SHEAR STUD	BOT T BOT
		т

WIND PROVISIONS FOR COMPONENTS AND CLADDING TABLE

DANCE WITH DITION.

FLAT KOUF DUILDING a = X'-X"

= END ZONE

ROOF = ZONE 2 WALLS = ZONE 5

= CORNER ZONE ROOF = ZONE 3

DE	SIGN WIND	PRESSURE	, PSF	
	EFFECTIVE	E WIND ARE	A, SF	
ZONE	10	50	100	DESCRIPTION
1	-40.9	-38.5	-37.4	ROOF INTERIOR ZONE
2	-68.6	-51.7	-44.4	END ZONE REGION OF THE ROOF
3	-103.3	-62.1	-44.4	CORNER ZONE REGION OF THE ROOF
ROOF OVERHANG (ZONES 1 AND 2)	-58.9	-56.5	-55.5	
	-97.7	-48.6	-27.7	
4 (+)	37.4	33.6	31.9	
4 (-)	-40.6	-36.7	-35.1	
5 (+)	37.4	33.6	31.9	
5 (-)	-49.9	-42.2	-38.9	

NOTES:

= INTERIOR ZONE

ROOF = ZONE 1

WALLS = ZONE 4

1. NEGATIVE PRESSURES ACT AWAY FROM COMPONENT SURFACE. POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES.

2. WIND UPLIFT PRESSURE ON CANOPIES AND ROOF OVERHANGS SHALL BE 60 PSF.

3. FOR NET UPLIFT TO ROOF JOISTS. SUBTRACT A ROOFING DEAD LOAD OF 15 PSF (NOT

INCLUDING JOIST SELF WEIGHT) FROM THE WIND PRESSURES SHOWN.

4. WIND LOADS PROVIDED ARE ULTIMATE LOADS, AS DETERMINED USING ASCE 7-10 PROVISIONS.

- 3

STEEL SHAPES LEGEND

STEEL FRAMING PLAN LEGEND

5

SHEET INDEX

S-001 GENERAL NOTES AND INFORMATION S-101 PLANS AND SECTIONS S-501 DETAILS

ABBREVIATIONS

YD YARD

LB

POUND

SHEET NUMBER:

GENERAL NO	TES AND N	

SHEET TITLE:

PROJECT NUMBER:	20
DATE:	03
DRAWN BY:	KF
CHECKED BY:	S
APPROVED BY:	S
SCALE:	AS

PROJECT INFORMATION: 0194124 3/16/2020 RN DH DH AS NOTED

ISSUE:

PROJECT ADDRESS

PROJECT TITLE: DAYTONA BEACH CAMPBELL POOL LIFEGUARD BUILDING

CITY OF DAYTONA BEACH, FL

CLIENT:

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CERTIFICATION # 4270

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MASONRY WALL SCHEDULE

				CONEDOLE
MARK	NOMINAL THICKNESS	TYPE	VERTICAL REINFORCEMENT	REMARKS
MW1	8"	Α	#5@32" OC	

MASONRY WALL SCHEDULE NOTES:

SIDE OF BEAM BEARING LOCATIONS.

- 1. PROVIDE TYPICAL VERTICAL REINFORCEMENT AT WALL ENDS AND EACH SIDE OF CONTROL JOINTS. REINFORCE FIRST TWO CELLS EACH SIDE OF OPENINGS FULL HEIGHT OF WALL. WHERE THE USE OF STEEL OR PRECAST LINTELS INTERRUPTS VERTICAL CONTINUITY OF WALL REINFORCEMENT, SHIFT REINFORCED CELLS PAST LINTEL BEARING AND GROUT WALL SOLID BELOW ENDS OF LINTELS.
- 2. PROVIDE DOWELS FOR VERTICAL REINFORCEMENT INTO FOUNDATION WALLS AND FOOTINGS BELOW PER DETAILS.
- 3. SEE GENERAL NOTES AND DETAILS FOR HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REQUIREMENTS.
- 4. UNLESS DETAILED OR OTHERWISE CALLED OUT, PROVIDE CMU LINTELS PER LINTEL SCHEDULE OVER OPENINGS IN MASONRY WALLS.
- 5. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AS PER SPECIFICATIONS.
- 6. OPENINGS IN WALLS PROVIDED FOR MECHANICAL DUCTWORK SHALL BE CENTERED IN BETWEEN BEAM BEARING LOCATIONS OR POSITIONED WITH THE NEAREST EDGE NO CLOSER THAN 24" EITHER
- 7. SEE PLAN AND DETAILS FOR ADDITIONAL WALL REINFORCEMENT AND GROUTING REQUIREMENTS NOT COVERED IN THIS SCHEDULE.

3

SHEET NUMBER:

DETAILS

SHEET TITLE:

PROJECT NUMBER: 20194124 DATE: 03/16/2020 DRAWN BY: KRN CHECKED BY: SDH APPROVED BY: SDH AS NOTED SCALE:

PROJECT INFORMATION:

POOL LIFEGUARD BUILDING

PROJECT TITLE: DAYTONA BEACH CAMPBEL

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