Coral Shores High School Cosmetology Alterations

PREPARED FOR Monroe County School District

> 241 Trumbo Road Key West, Florida 33040



SCHOOL BOARD MEMBERS

District 1 - Bobby Highsmith District 2 - Andy Griffiths, Vice Chair District 3 - Mindy Conn District 4 - John Dick, Chair Distict 5 - Dr. Sue Woltanski

SUPERINTENDENT OF SCHOOLS Theresa Axford

PREPARED BY



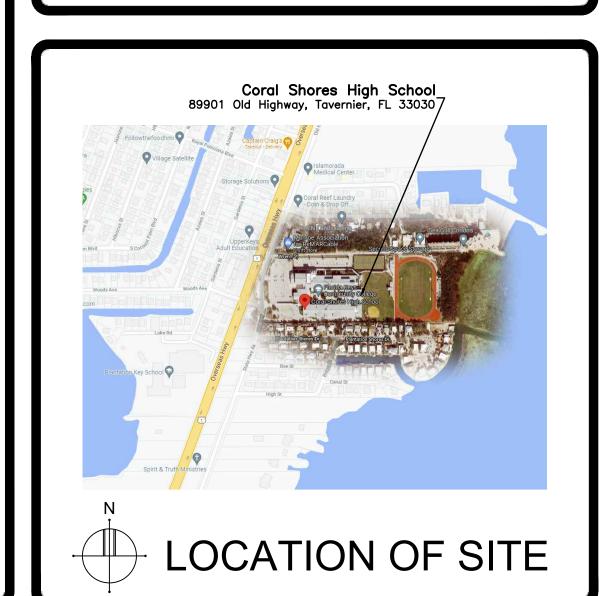
April 18, 2022 CONSTRUCTION DOCUMENTS

DRAWING INDEX

NUMBER	TITLE
_	COVER SHEET
P0.1 P1.1	PLUMBING GENERAL NOTES, SCHEDULE, AND LEGEND AREA F2 2ND FLR PLUMBING PLANS, DETAILS, AND RISERS
E0.1 E1.1 E2.1 E3.1	ELECTRICAL GENERAL NOTES & LEGEND POWER AND SYSTEMS DEMOLITION PLAN — UNIT F2 ELECTRICAL PLAN — UNIT B2 PARTIAL ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES







04.18.2022

21027

	PLUMBING FIXTURE &	: EQUIPMENT	SCHE	EDUL	E		
MARK	DESCRIPTION	SELECTION	w or s	TRAP	VENT	HW	CW
P1 HAND SINK	HANDICAPPED ** HOT/ COLD WATER (SINGLE BOWL) BOWL: SINGLE BOWL, STAINLESS STEEL, COUNTERTOP-MOUNTED 18 GAUGE-TYPE 304, SELF RIM, OVERFLOW, 19"x18"x5-1/2" OVERALL, 16"x11-1/2" BOWL, ONE FAUCET HOLE IN CENTER OF BACK LEDGE AS REQUIRED FOR ACCESSIBILITY, ADA COMPLIANT. FAUCET: 5-1/4" HIGH GOOSENECK OUTLET, NON-AERATING (0.5 GPM), LEVER HANDLES, CHROME FINISHED, ADA COMPLIANT DRAIN: FLAT GRID STRAINER WITHOUT STOPPER, 1-1/2" OUTLET. P-TRAP: CHROME FINISHED WITH TWO UNIONS, 1-1/2" INLET AND OUTLET, WITHOUT CLEANOUT. SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVES, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET CONNECTIONS. MIXING VALVE: THERMOSTATICALLY CONTROLLED POINT OF USE MIXING VALVE. LEAD FREE. ASSE 1070 COMPLIANT. SET TEMPERATURE TO 105°F.	ELKAY LRAD191855 (CUSTOM PUNCH) CHICAGO 50-E2805-5ABCP ELKAY LK-18 MCGUIRE 8912CNC MCGUIRE 2165CCLK SYMMONS 7-225-CK	2"	2"	2"	3/8"	3/8"
P2 SALON SHAMPOO STATION	SALON SHAMPOO STATION — OWNER PROVIDED CHAIR WITH INTEGRAL WASH BOWL, H&CW FAUCET WITH SPRAY WAND, VACUUM BREAKER, AND FLEXIBLE DRAIN HOSE. DRAIN: PROVIDE AIR GAP DRAIN CONNECTOR AND HAIR STRAINER. SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVES, WALL ESCUTCHEONS, FLEXIBLE TUBE RISERS, 3/8" INLET CONNECTIONS. PROVIDE 0.75 GPM FLOW RESTRICTORS ON THE H&CW LINES OR 1.5 gpm FLOW RESTRICTOR IN THE LINE TO THE SPRAY WAND	IMT B087BRW3BF SMITH 3951T-CP SMITH 8760T-CP MCGUIRE 2165CCLK	2"	1-1/2"	1-1/2"	3/8"	3/8"
P3 PEDICURE STATION	SALON PEDICURE STATION — OWNER PROVIDED CHAIR WITH INTEGRAL WASH BOWL, H&CW FAUCET, VACUUM BREAKER, WHIRLPOOL / DISCHARGE PUMP, AND FLEXIBLE DRAIN HOSE. DRAIN: PROVIDE AIR GAP DRAIN CONNECTOR AND P—TRAP. SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVES, WALL ESCUTCHEONS, FLEXIBLE TUBE RISERS, 1/2" INLET CONNECTIONS.	J&A CLEO AX SMITH 3951T-CP MCGUIRE 8089CNC MCGUIRE 2165CCLK	2"	1-1/2"	1-1/2"	1/2"	1/2"
EWH	TANKLESS POINT OF USE ELECTRIC WATER HEATER 17.5 KW © 208V, SINGLE PHASE, 84 AMPS 5 GPM, 30°F RISE. SET TEMPERATURE TO 95°F. 17"H x 17"W x 3.5"D. PROVIDE BALL VALVE AT CONNECTING CW LINE.	EEMAX PR024240-IR3-4	-	_	-	3/4"	3/4"
AAV	VENT TERMINAL RELIEF LOCATE AIR ADMITTANCE VALVE JUST BELOW ROOF DECK. SIZE AS INDICATED ON DRAWINGS.	STUDOR	_	_		_	_
WCO	CAST IRON TEE WALL CLEAN-OUT WITH BRONZE PLUG AND ROUND STAINLESS STEEL COVER PLATE. SIZE C.O. SAME AS LINE SIZE (2-1/2" MINIMUM). PROVIDE PVC TO NO-HUB ADAPTERS FOR PVC DWV APPLICATIONS.	SMITH 4351S-Y	2-1/2" MIN.	-	-	_	_

** FIXTURE AND ALL ATTACHMENTS SHALL COMPLY WITH THE FBC/ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT,

ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; CHILDREN'S FACILITIES. FIXTURE TO BE MOUNTED PER THIS SCHEDULE UNLESS

NOTED OTHERWISE IN PLAN. FLUSH VALVE HANDLE IS TO BE ON THE SIDE TOWARDS THE ASSOCIATED LAVATORY WHERE APPLICABLE.

PLUMBING FIXTURE & EQUIPMENT SCHEDULE											
MARK	DESCRIPTION	SELECTION	W OR S TRAP		VENT	нw	CW				
P1 HAND SINK	HANDICAPPED ** HOT/ COLD WATER (SINGLE BOWL) BOWL: SINGLE BOWL, STAINLESS STEEL, COUNTERTOP-MOUNTED 18 GAUGE-TYPE 304, SELF RIM, OVERFLOW, 19"x18"x5-1/2" OVERALL, 16"x11-1/2" BOWL, ONE FAUCET HOLE IN CENTER OF BACK LEDGE AS REQUIRED FOR ACCESSIBILITY, ADA COMPLIANT.	ELKAY LRAD191855 (CUSTOM PUNCH)	2"	2"	2"	3/8"	3/8"				
	FAUCET: 5-1/4" HIGH GOOSENECK OUTLET, NON-AERATING (0.5 GPM), LEVER HANDLES, CHROME FINISHED, ADA COMPLIANT	CHICAGO 50-E2805-5ABCP									
	DRAIN: FLAT GRID STRAINER WITHOUT STOPPER, 1-1/2" OUTLET.	ELKAY LK-18									
	<u>P-TRAP:</u> CHROME FINISHED WITH TWO UNIONS, 1-1/2" INLET AND OUTLET, WITHOUT CLEANOUT.	MCGUIRE 8912CNC									
	SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVES, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET CONNECTIONS. MIXING VALVE: THERMOSTATICALLY CONTROLLED POINT OF	MCGUIRE 2165CCLK									
	USE MIXING VALVE. LEAD FREE. ASSE 1070 COMPLIANT. SET TEMPERATURE TO 105°F.	SYMMONS 7-225-CK									
P2 SALON SHAMPOO STATION	SALON SHAMPOO STATION — OWNER PROVIDED CHAIR WITH INTEGRAL WASH BOWL, H&CW FAUCET WITH SPRAY WAND, VACUUM BREAKER, AND FLEXIBLE DRAIN HOSE. DRAIN: PROVIDE AIR GAP DRAIN CONNECTOR AND HAIR STRAINER. SUPPLY: TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVES, WALL ESCUTCHEONS, FLEXIBLE TUBE RISERS, 3/8" INLET CONNECTIONS. PROVIDE 0.75 GPM FLOW RESTRICTORS ON THE H&CW LINES OR 1.5 gpm FLOW RESTRICTOR IN THE LINE TO THE SPRAY WAND	IMT B087BRW3BF SMITH 3951T-CP SMITH 8760T-CP MCGUIRE 2165CCLK	2"	1-1/2"	1-1/2"	3/8"	3/8"				
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AAV	VENT TERMINAL RELIEF	CTUDOD									

PLUMBING LEGEND → — — → VENT PIPING

WASTE PIPING BELOW FLOOR OR GRADE (SAN) COLD WATER PIPING (CW)

COLD WATER PIPING (CW)

→ · · → · · → HOT WATER PIPING (HW)

O PIPING UP

PIPING DOWN

HOT WATER BALANCING VALVE

PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE

CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING

EXISTING — EXACT SIZE AND LOCATION TO BE FIELD VERIFIED. EXISTING ITEM TO BE DEMOLISHED

EXISTING ITEM TO BE RELOCATED

NEW LOCATION OF EXISTING ITEM

VALVE BOX LAVATORY

WATER CLOSET

GENERAL PLUMBING NOTES

- 1. ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
- A. FLORIDA BUILDING CODE (FBC) 7TH EDITION (2020): THIS CODE INCLUDES THE 2020 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2020).
- B. 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2020).
- C. 2017 NATIONAL ELECTRIC CODE.
- D. 2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF): (EFFECTIVE NOVEMBER 4, 2014)
- 2. PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS. EQUIPMENT. AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
- 3. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- 4. CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED
- TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD. 5. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- 6. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES..
- 7. WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND
- 8. ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV.
- 9. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
- 10. UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
- 11. PROVIDE ALL CUTTING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.
- 12. ALL SOIL AND WASTE PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. LARGER WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
- 13. ALL WATER PIPING SHALL BE SUPPORTED RIGIDLY AND IN LINE FROM THE BUILDING STRUCTURE. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
- 14. PRIOR TO COMMENCING ANY PLUMBING ROUGH—IN, THE EXISTING SANITARY PIPING SHALL BE EXCAVATED. VERIFY THE EXACT SIZE, LOCATION, INVERT AND DIRECTION OF FLOW. NOTIFY THE ENGINEER IMMEDIATELY IF THE DRAIN IS SMALLER THAN INDICATED OR IF THE INVERT WILL NOT BE LOW ENOUGH FOR THE NEW PLUMBING ROUGH-IN. CONNECT NEW SANITARY LINES TO EXISTING SANITARY LINES AS INDICATED. PATCH THE FLOOR AS DIRECTED BY THE ARCHITECT.
- 15. VERIFY ALL SITE RELATED SANITARY & WATER CONNECTIONS PRIOR TO STARTING WORK. SHOULD DEPTHS BE DIFFERENT THAN THAT SHOWN HEREIN ADVISE ENGINEER IMMEDIATELY.
- 16. VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE INDICATED.
- 17. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. ANY PIPING EXPOSED TO VIEW SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER IF DETERMINED BY THE OWNER TO BE OBJECTIONABLE.
- 18. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON- ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 19. PROVIDE DIELECTRIC ISOLATION/SEPARATION (I.E. UNIONS) AT CONNECTIONS OF DISSIMILAR
- 20. ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURE'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS TO RENDER EQUIPMENT FULLY OPERATIONAL. ALL SUPPLIES SHALL BE VALVED. PROVIDE VACUUM BREAKERS OR CHECK VALVES WHERE REQUIRED BY AUTHORITY HAVING JURISDICTION.
- 21. PLUMBING CONTRACTOR SHALL TAG ALL VALVES WITH STAMPED BRASS TAGS. PROVIDE FIELD COORDINATED VALVE SCHEDULE MOUNTED IN 8-1/2"X11" PICTURE FRAME IN THE MECHANICAL
- 22. ALL EXPOSED PLUMBING PENETRATIONS SHALL HAVE ESCUTCHEON PLATES.
- 23. PROVIDE A BLUE STICKER ON CEILING GRID TEE BELOW ANY WATER VALVE ABOVE CEILING FOR LOCATION FACILITATION.

PLUMBING DRAWING INDEX

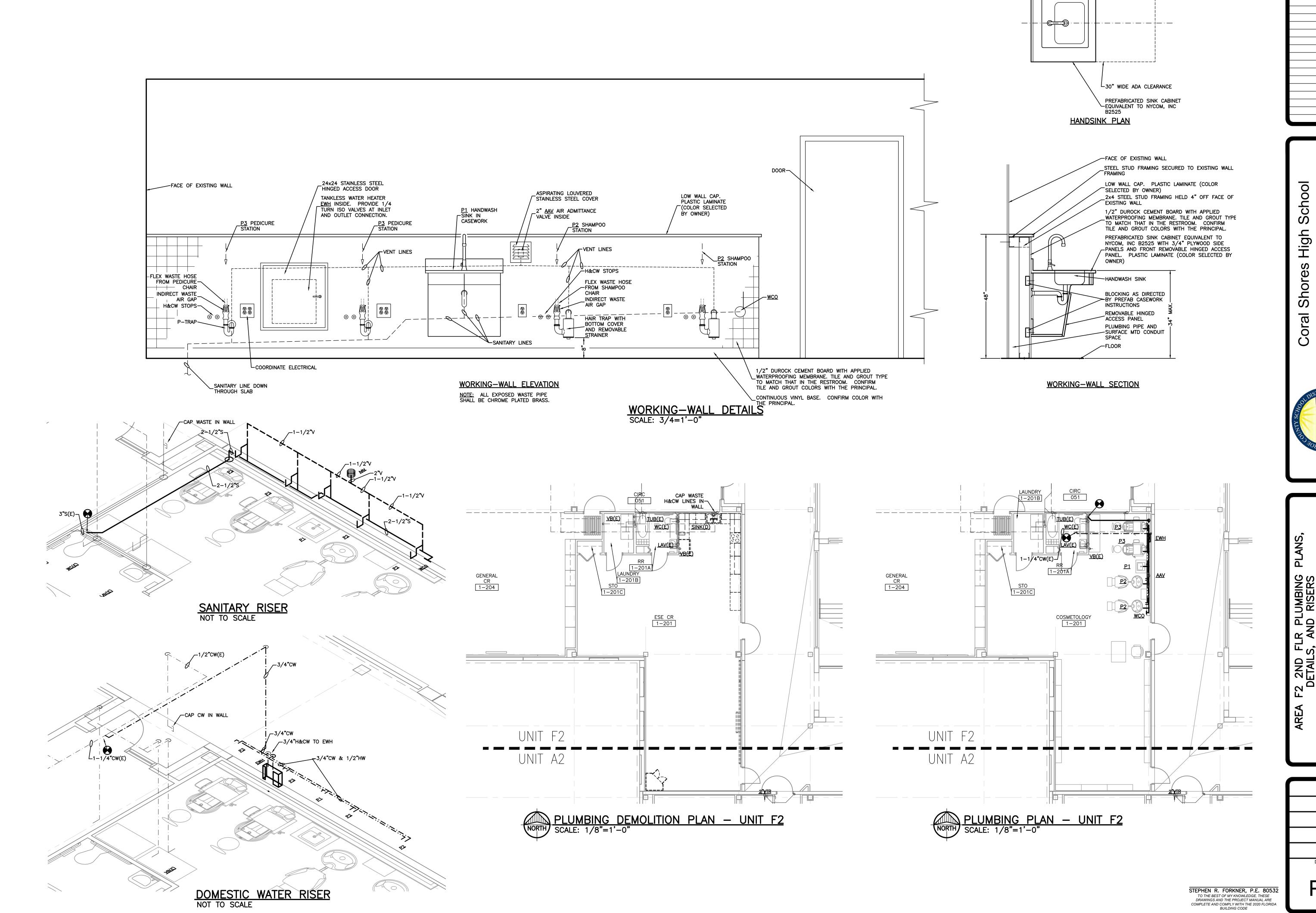
PLUMBING GENERAL NOTES, SCHEDULE, AND LEGEND AREA F2 2ND FLR PLUMBING PLANS, DETAILS, AND RISERS

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CWR CHECKED SRF 04.18.2022 AS NOTED 21027

DRAWING NO.



REVISIONS

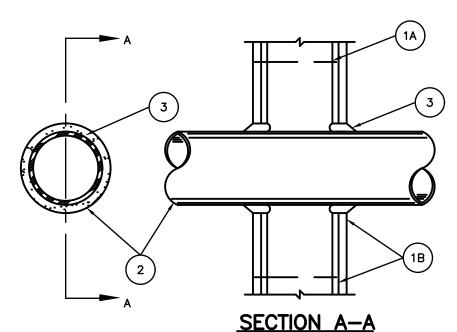
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FLR PLUMBING LS, AND RISERS

DRAWN CWR CHECKED SRF DATE **04.18.2022** SCALE AS NOTED JOB NO. 21027

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient — less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



FIRE—RATED WALL PENETRATION DETAIL FOR PIPE OR CONDUIT

- 1. WALL ASSEMBLY THE 1, 2, 3 OR 4 HR FIRE—RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
- B. GYPSUM BOARD* NOM 1/2 OR 5/8 IN. (13 OR 16 MM)
 THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES.
 THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF
 LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS
 SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN
 THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS
 26 IN. (660 MM).
- 2. THROUGH—PENETRANT ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- A. STEEL PIPE NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. IRON PIPE NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
- C. CONDUIT NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
- D. COPPER TUBING NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
- E. COPPER PIPE NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- F. THROUGH PENETRATING PRODUCT* FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
- 1) NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC
- 2) NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITEFLEX
- 3) NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG L L C

3 .	FILL, VOID OR CAVITY MATERIAL* — CAULK OR
	SEALANT — MIN $5/8$., $1-1/4$, $1-7/8$ AND $2-1/2$ IN.
	(16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AN
	4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULU
	FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM
	BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFA
	AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE
	HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON
	THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS
	INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T
	RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE
	OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING
	OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED
	HEI ()W+

MAX PIPE OR CONDUIT DIAM. IN (MM)	F RATING HR	T RATING HR
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H.

3M COMPANY — CP 25WB+ OR FB-3000 WT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

LAST UPDATED ON 2005-06-15

XAMPLE
'AH1'
480Y/277V, 3Ø, 4W.
FED FROM PANEL 'AC'

CIR-1,3,5

TYPICAL NAMEPLATE DETAIL NOT TO SCALE

NOTES:

- PROVIDE NAMEPLATE LABELS ON ALL EQUIPMENT. EACH NAME PLATE SHALL HAVE THE FOLLOWING INFORMATION:

 1. EQUIPMENT NAME.
- VOLTAGE AND PHASE.
 LOCATION FROM WHICH EQUIPMENT IS BEING FED FROM. INCLUDE CIRCUIT NUMBERS.

	ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A
<u></u>	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED BELOW FINISHED FLOOR OR UNDERGROUND.	N/A
	RACEWAY EXPOSED ON WALL OR CEILING	N/A
EG IG	HOMERUN TO PANELBOARD — LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A
OUP DOWN	RACEWAY RISER, UP OR DOWN AS NOTED	N/A
 3	CONDUIT CAPPED	N/A
WP GFI €	DUPLEX RECEPTACLE — 120VAC. LETTER NEXT TO DEVICE INDICATES THE FOLLOWING: 'WP' = WEATHERPROOF TYPE (IN USE TYPE). GFI' = GROUND FAULT PROTECTION TYPE. 'DL' = DAMP LOCATION WEATHERPROOF COVER (NOT IN USE TYPE). 'TP' = TAMPER PROOF.	M.H. 16" AFF TO BOTTOM
€	DUPLEX RECEPTACLE — 120VAC F = PEDESTAL MOUNTED	M.H. 16" AFF TO BOTTOM
⊕	DUPLEX RECEPTACLE - 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
—————————————————————————————————————	DOUBLE DUPLEX RECEPTACLE - 120VAC	M.H. 16" AFF TO BOTTOM
—————————————————————————————————————	DOUBLE DUPLEX RECEPTACLE — 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
$lack{\mathbb{Q}}$	SPECIAL PURPOSE RECEPTACLE AS NOTED	M.H. 42" AFF TO BOTTOM
<u> </u>	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
<u></u>	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	WALL MOUNTED
<u>(S)</u>	PAGING SPEAKER	CEILING MOUNTED
₩ ₩	CAT 6 COMMUNICATIONS OUTLET WITH CAT. 6 CABLING, JACK AND PLASTIC FOG-WHITE FACEPLATE, NUMBER INDICATES # OF PORTS AND CABLING REQUIRED, 1-1/4" CONDUIT W/BUSHING STUBBED INTO CEILING SPACE. ROUTE CABLING TO NEAREST IDF RACK.	M.H. 16" AFF TO BOTTOM OR AS NOTED
₩A ✓	WIRELESS ACCESS POINT COMMUNICATIONS OUTLET WITH TWO (2) CAT. 6A CABLES, JACKS AND PLASTIC FOG-WHITE FACEPLATE, 1-1/4" CONDUIT W/BUSHING STUBBED INTO CEILING SPACE. ROUTE CABLING TO NEAREST IDF RACK.	WALL MOUNTED AT 84" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER
	120/208 VOLT POWER PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED
	277/480 VOLT POWER PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED
	NON-FUSIBLE SWITCH	M.H. 6'-0" TO TOP OR AS NOTED
LEE .	FUSIBLE SAFETY SWITCH	M.H. 6'-0" TO TOP OR AS NOTED
÷	FIRE ALARM STROBE XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER
- PIF	FIRE ALARM COMBINATION HORN/STROBE, LETTER IN CIRCLE INDICATES TYPE: C=CHIME, B=BELL, H=HORN, S=SPEAKER XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N. YY = SPEAKER WATTAGE, MINIMUM 1/2 WATT U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER
F	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP
FRI	FIRE ALARM REMOTE INDICATOR	M.H. 48" AFF TO TOP
Fs	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
F _{SD}	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	DUCT MOUNTED (SEE MECHANICAL DWGS.)
F _H	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

ABBRE	ABBREVIATIONS:										
AFF	ABOVE FINISHED FLOOR	INT	INTERCOM/PAGING CABINET								
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING								
E	EXISTING	MTD	MOUNTED								
ETR	EXISTING TO REMAIN	M.H.	MOUNTING HEIGHT								
EWC	ELECTRIC WATER COOLER	N/A	NOT APPLICABLE								
EWH	ELECTRIC WATER HEATER	PROJ	PROJECTOR LOCATION								
EG	EQUIPMENT GROUND	U.O.N.	UNLESS OTHERWISE NOTED								
ESB	ENERGY SAVING BALLAST	R	REMOVE								
EXP	EXPLOSION PROOF	RL	RELOCATED								
FACP	FIRE ALARM CONTROL PANEL	WP	WEATHER PROOF								
FATC	FIRE ALARM TERMINAL CABINET	OFCI	OWNER FURNISHED,								
GFI	GROUND FAULT PROTECTION		CONTRACTOR INSTALLED								
G, GND	GROUND	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED								
GWB	GYPSUM WALL BOARD	OFOI	OWNER FURNISHED, OWNER								
H.D.	HAND DRYER		INSTALLED								

ELECTRICAL GENERAL NOTES: (THESE NOTES APPLY TO ALL SHEETS)

- 1. ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE
- FOLLOWING:

 A. FLORIDA BUILDING CODE (FBC) 7TH EDITION (2020): THIS CODE INCLUDES THE 2020 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2020).
- B. 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2020).
- C. 2017 NATIONAL ELECTRIC CODE.
- D. 2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF): (EFFECTIVE NOVEMBER 4, 2014)
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK
- 3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- 4. IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 5. ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL—TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
- 6. ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
 ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE
 DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
- 7. APPLY A BITUMASTIC COATING FOR ALL CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
- 8. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
- 9. PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH—IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
- 10. PROVIDE FIRE—STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
- 11. ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'-0" IN LENGTH.
- 12. MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
- 13. ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
- 14. ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
- 15. WHEN REUSING OR EXTENDING EXISTING CIRCUITS, VERIFY ALL CIRCUIT NUMBERS AND VERIFY ANY EXISTING LOAD. CIRCUITS MAY BE PICKED UP AT AN EXISTING JUNCTION BOX IF AVAILABLE RATHER THAN PROVIDING A SEPARATE HOMERUN TO A PANEL.
- 16. THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
- 17. PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
- 18. BRANCH CIRCUIT SHALL NOT BE RUN UNDERGROUND UNLESS SPECIFIED OR APPROVED BY THE OWNER AND ENGINEER. ROUTE CONCEALED IN WALL AND ABOVE CEILINGS. DISTRIBUTION FEEDERS FROM THE MAIN SWITCHBOARD MAY BE RUN UNDERGROUND
- 19. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
- 20. PROVIDE HANDLE TIES FOR 2 OR MORE SINGLE POLE WITH SHARED NEUTRALS TO COMPLY WITH NEC 210.4 (B)

ELECTRICAL DRAWING INDEX

ELECTRICAL PLAN - UNIT B2

E2.1

ELECTRICAL GENERAL NOTES & LEGEND

POWER AND SYSTEMS DEMOLITION PLAN - UNIT F2

PARTIAL ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

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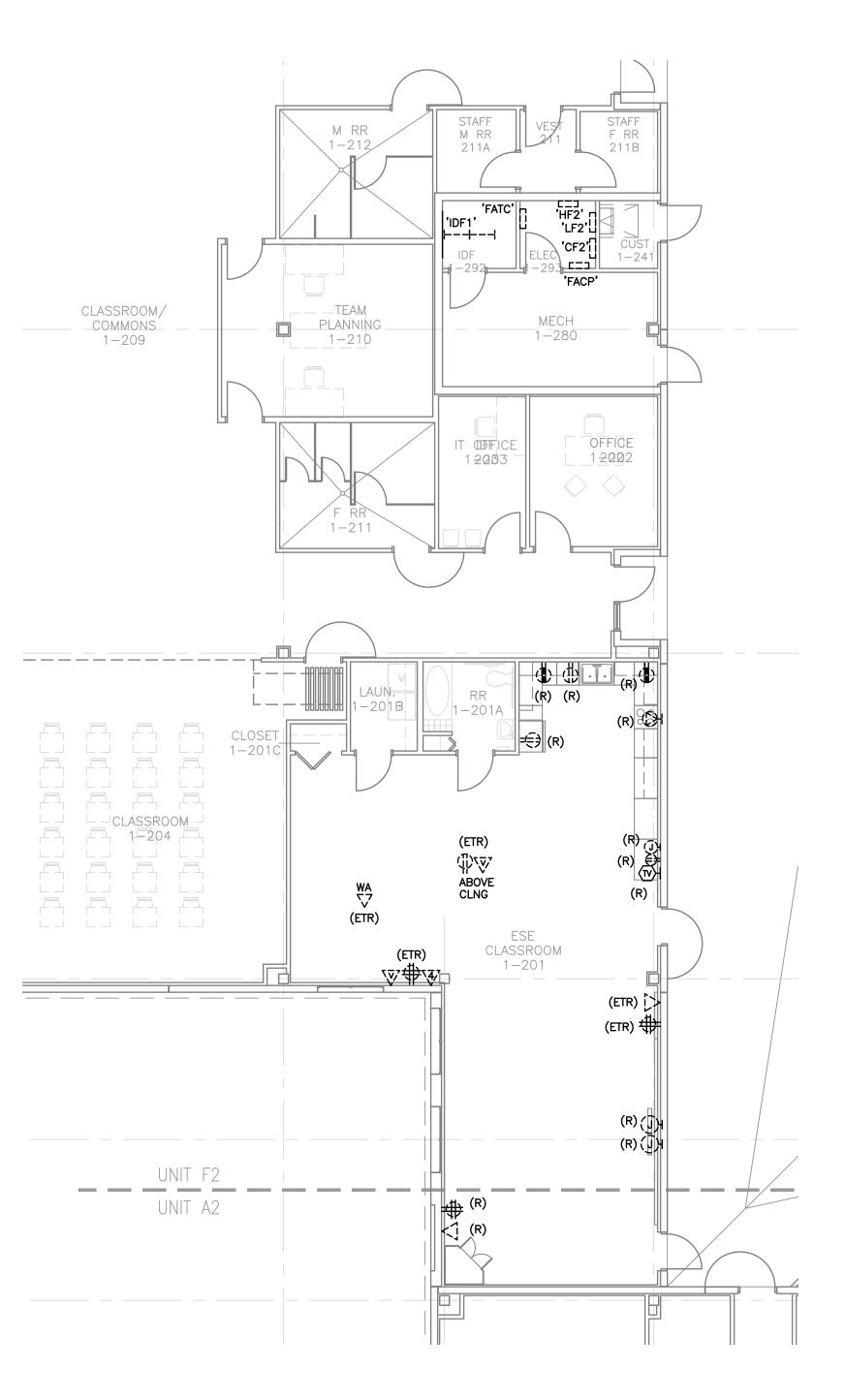
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- 1. DASHED FIXTURES/DEVICES INDICATE EXISTING.
- 2. FIXTURES/DEVICES INDICATED WITH (R) ARE TO BE REMOVED. ALL OTHER FIXTURES/DEVICES ARE EXISTING TO REMAIN.
- PROVIDE ALL REQUIRED DEMOLITION ASSOCIATED WITH THE NEW WORK AND REMOVE ALL EQUIPMENT, RACEWAYS, BOXES, WIRING, ETC. THAT IS RENDERED OUT OF SERVICE OR OBSOLETE. UPDATE PANEL CIRCUIT DIRECTORIES.
- 4. SPLICE AND EXTEND CIRCUITS AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING LUMINAIRES, RECEPTACLES, EQUIPMENT AND OTHER DEVICES WHICH ARE TO REMAIN. DO NOT SPLICE TELEPHONE OR DATA CIRCUITS.
- EXISTING JUNCTION BOXES WHICH ARE NOT BEING REUSED SHALL BE REMOVED AND THE WALLS OR CEILINGS SHALL BE PATCHED AND PAINTED TO MATCH THE SURROUNDING AREA.



POWER AND SYSTEMS DEMOLITION PLAN — UNIT F2

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

District School Alterations High Cosmetology Shores ounty Road Key Coral

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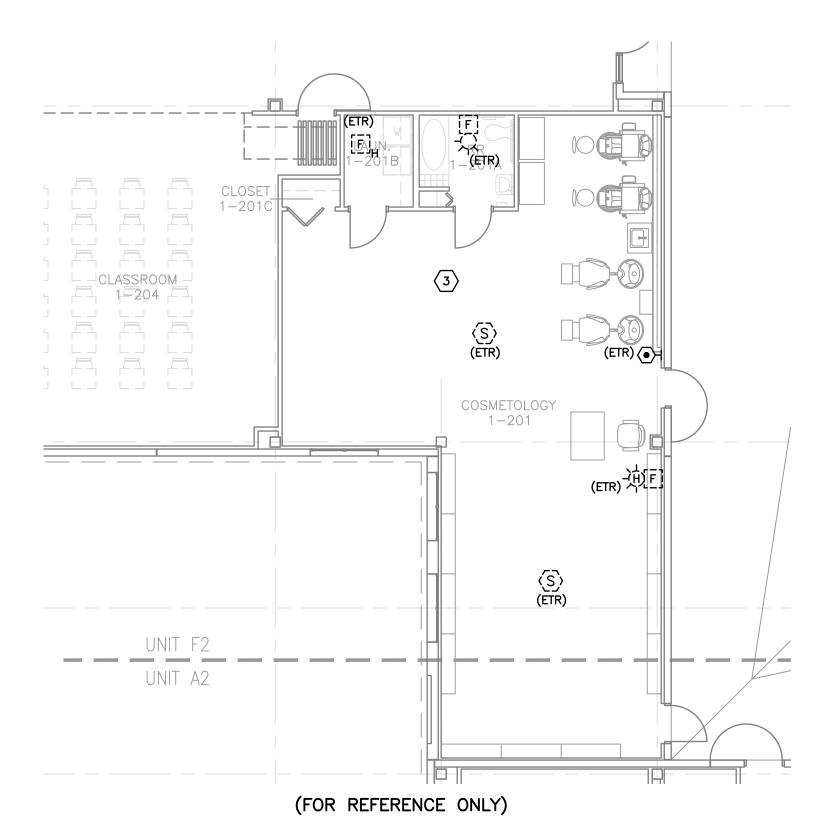


DRAWN **TRG** CHECKED RCA DATE **04.18.2022** SCALE AS NOTED JOB NO. **21027**

ROBERT C. ANSTON, P.E. 40858

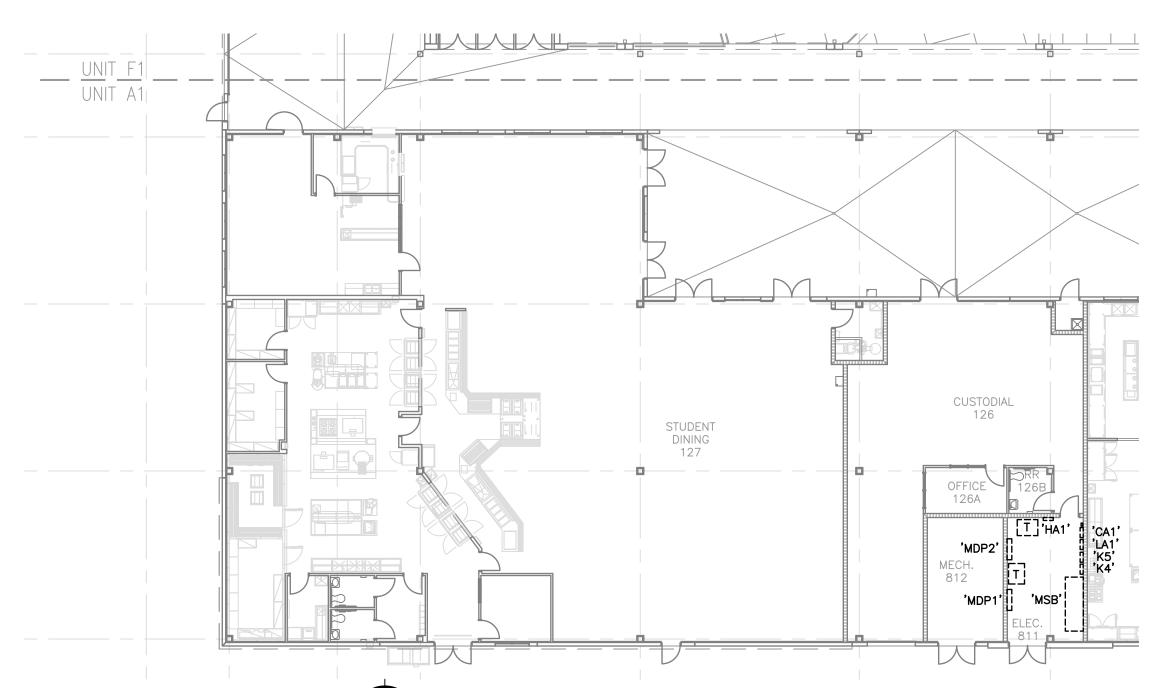
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE															
NARK ROOM VOLTAGE/ KW HR FLA MCA REFAKER HOMERIN CIRCUIT CONDUIT & CARLING COMBINATION STARTER/DISCONNECT SWITCH INTERL							VOLTAGE /					INTERLOCK/			
MARK	NUMBER	PHASE	KW	HP	FLA	MCA	BREAKER	HOMERUN CIRCUIT	CONDUIT & CABLING	SIZE AMPS	POLES	FUSE	STARTER SIZE	NEMA RATING	REMARKS
TANKLESS P	OINT OF USE EL	ECTRIC WATE	R HEATER	?	-	-	-	•					-		
EWH	COSMETOLOGY	208/1	17.5	-	84.0	84.0	100	LF3-25,27	1-1/4°C.; 2-#3, 1-#8 GND.	100	2	NF	_	1	HEAVY DUTY TYPE
MRS = MO	MFS = MANUFACTURER'S RECOMMENDED FUSE SIZE MRS = MOTOR RATED TOGGLE SWITCH BY DIVISION 26 NF = NON-FUSED DIV23 = DISCONNECTING MEANS PROVIDED BY THE MANUFACTURER OR DIVISION 23 CONTRACTOR														



FIRE ALARM AND INTERCOM SYSTEMS PLAN — UNIT F2

NORTH SCALE: 1/8"=1'-0"

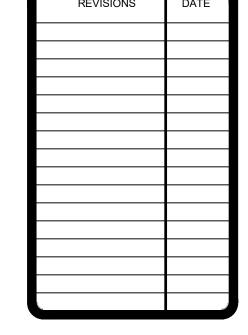


POWER AND SYSTEMS PLAN — UNIT A1

NORTH SCALE: 1/16"=1'-0"



- MOUNT DISCONNECT FOR TANKLESS WATER HEATER ABOVE CEILING DIRECTLY ABOVE EWH.
- PROVIDE SIGNAGE THAT STATES 'DISCONNECT FOR WATER HEATER LOCATED ABOVE CEILING'.
- PROTECT ALL EXISTING LOW VOLTAGE SYSTEMS THAT ARE TO REMAIN AND MAINTAIN OPERATION.
- 4 ALL RECEPTACLES SHALL BE 120 VOLT, 20 AMP RATED TYPE (NO 15 AMP), TYPICAL.



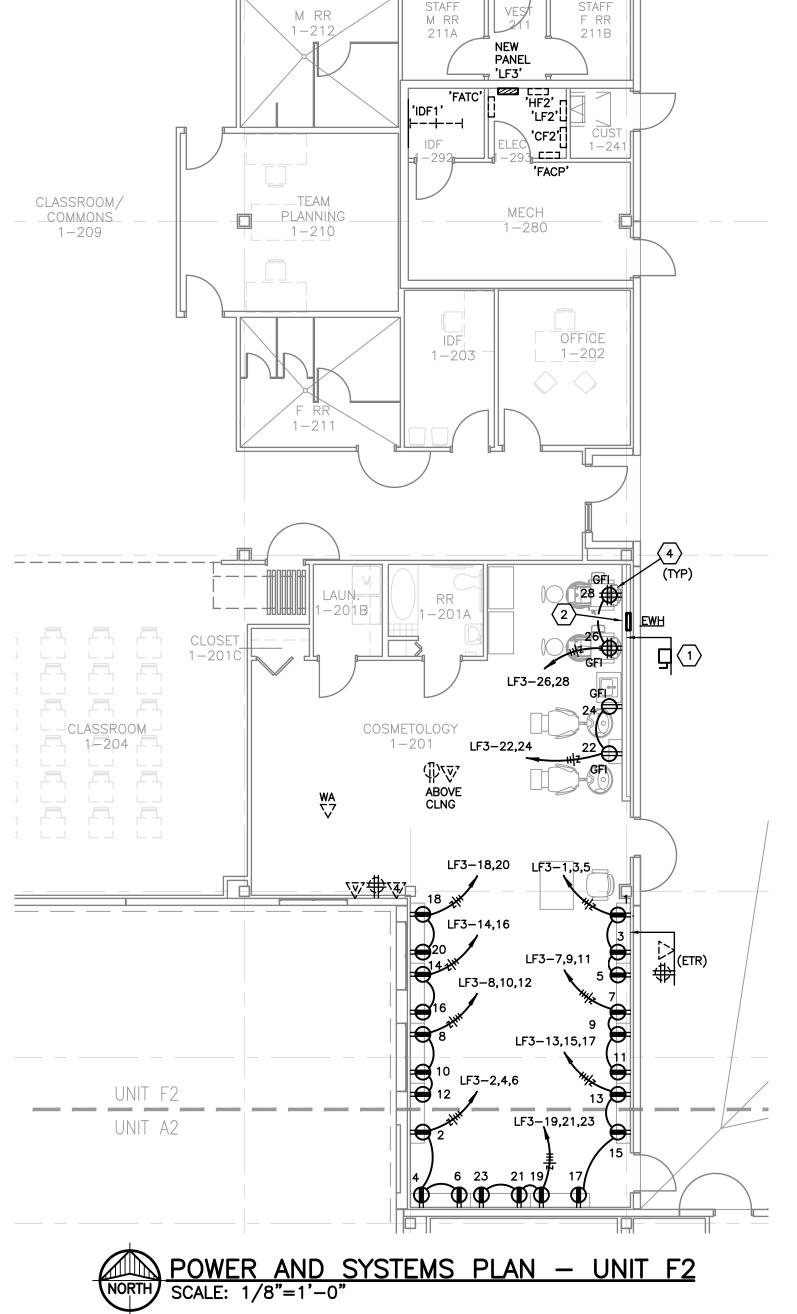
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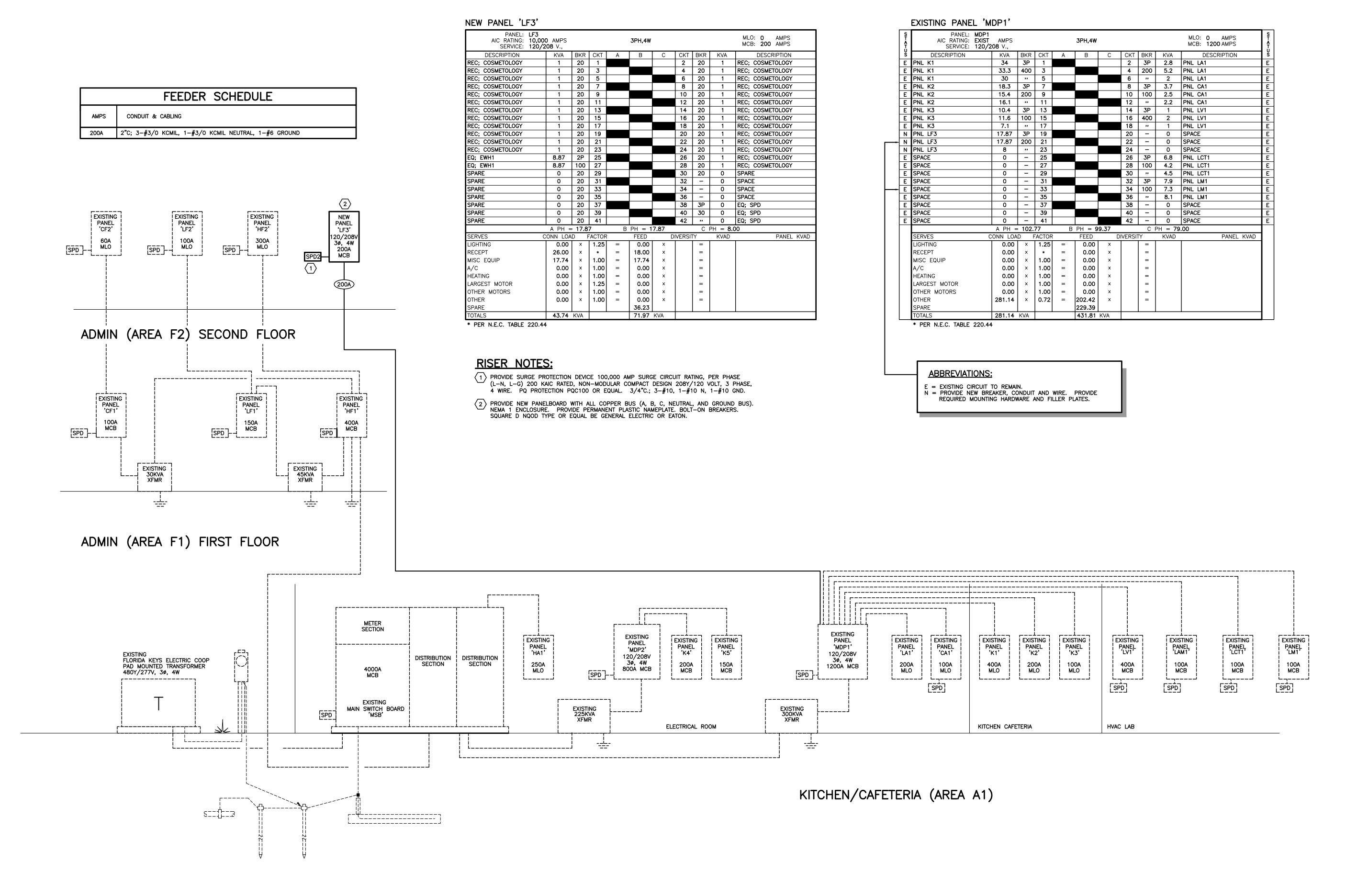


B2 UNIT

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PARTIAL ELECTRICAL RISER DIAGRAM
NOT TO SCALE

Coral Shores High School Cosmetology Alterations

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SCHEDULES

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04.18.2022
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AS NOTED
JOB NO.
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ROBERT C. ANSTON, P.E. 40858
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