

ORANGE COUNTY LIBRARY SYSTEM

BRANCH RESTROOM REFURBISHMENT

SOUTHEAST BRANCH LIBRARY
5575 S. SEMORAN BLVD.
ORLANDO, FL 32822

PROJECT TEAM

OWNER

ORANGE COUNTY LIBRARY SYSTEM
101 E. CENTRAL BLVD.
ORLANDO, FL 32801
PHONE: 407-835-7635

ARCHITECT

RLARCHITECTURE, INC.
301 S SWEETWATER COVE BLVD.
LONGWOOD, FLORIDA 32779
RONALD LANG, AIA, FLAR0016218
PHONE: 407-756-7833

ENGINEER

ELECTRICAL
ALERS ENGINEERING GROUP, LLC
NICHOLAS V. ALERS, P.E. FL48176

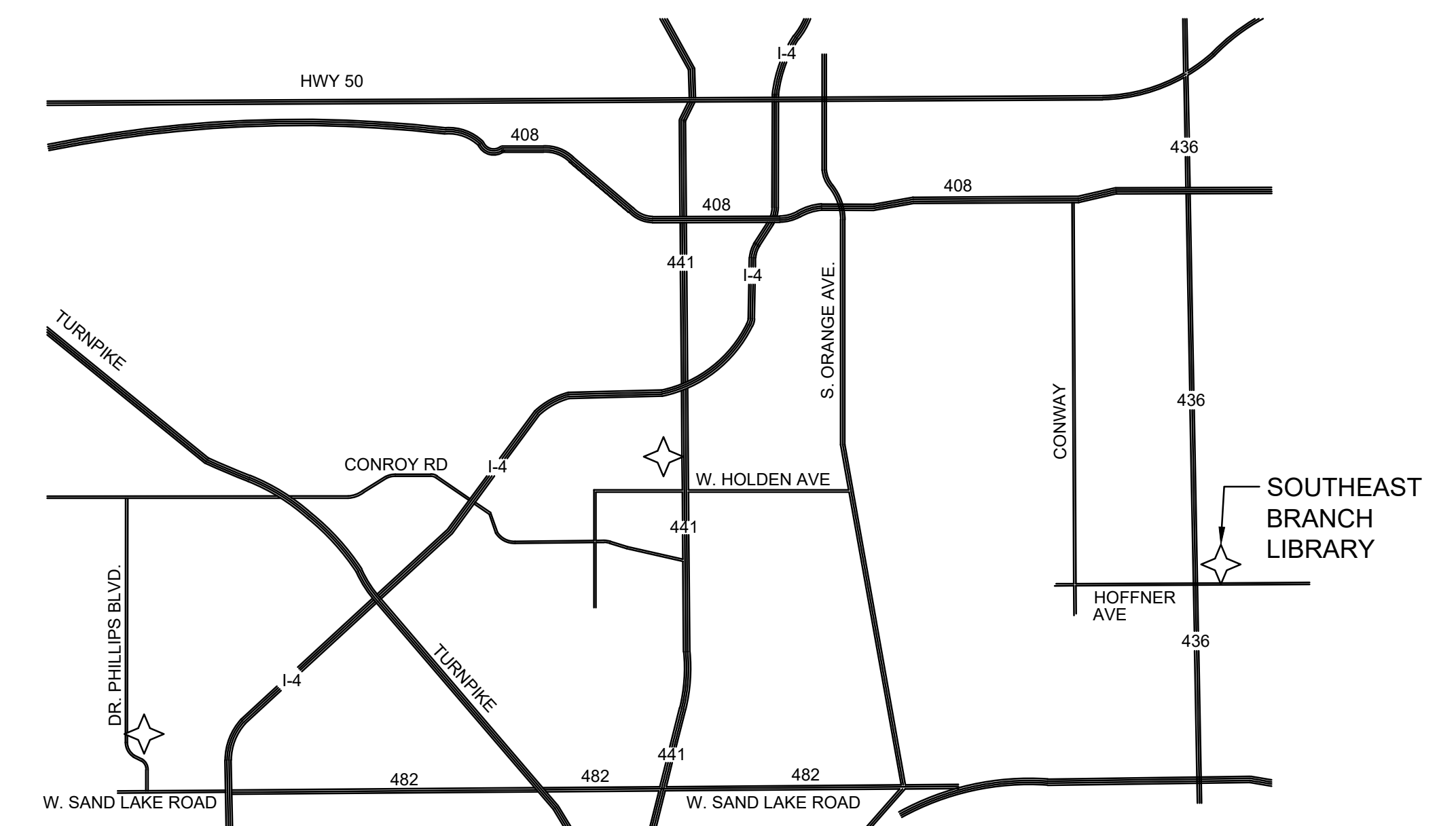
ENGINEER

MECHANICAL/PLUMBING
TAGS ENGINEERING
TUGCE AGSAK, PE. FL68336

PERMITTING AGENCY

CITY OF ORLANDO
OFFICE OF PERMITTING SERVICES
400 SOUTH ORANGE AVE.
ORLANDO, FLORIDA 32801
PHONE: 407-246-2271

LOCATION MAP



ABBREVIATIONS

AB: ANCHOR BOLT
 ADA: AMERICANS WITH DISABILITIES ACT
 AFF: ABOVE FINISHED FLOOR SLAB
 AP: ACCESS PANEL
 BB: BALL BEARING
 BD: BOARD
 BIT: BITUMINOUS
 BLK: BLOCK
 BM: BEAM, BENCH MARK
 BS: BOTH SIDES
 BUR: BUILT-UP ROOF
 BW: BOTH WAYS
 C/C: CENTER TO CENTER
 CB: CATCH BASIN
 CJ: CONTROL JOINT
 CL: CENTERLINE
 CMU: CONCRETE MASONRY UNIT
 CO: CLEANOUT
 CONC: CONCRETE
 CONSTE: CONSTRUCTION
 CONT: CONTINUOUS
 CONTR: CONTRACTOR
 CFCI: CONTRACTOR FURNISHED CONTRACTOR INSTALLED
 CORR: CORRIDOR
 CRT: CARPET
 CRS: COURSE
 CT: CERAMIC TILE
 CTR: CENTER
 CY: CUBIC YARD
 CYL: CYLINDER
 DEMO: DEMOLITION
 DF: DRINKING FOUNTAIN
 DIM: DIMENSION
 DISP: DISPENSER
 DS: DOWNSPOUT
 EJ: EXPANSION JOINT
 EL: ELEVATION
 ELEV: ELEVATION
 ETR: EXISTING TO REMAIN
 EW: EACH WAY
 EWC: ELECTRIC WATER COOLER
 EWH: ELECTRIC WATER HEATER
 EXP: EXPANSION
 EXT: EXTERIOR
 FA: FIRE ALARM
 FBC: FLORIDA BUILDING CODE
 FD: FLOOR DRAIN
 FE: FIRE EXTINGUISHER
 FEC: FIRE EXTINGUISHER CABINET
 FH: FIRE HYDRANT
 FLUOR: FLUORESCENT
 FS: FLOOR SINK
 GA: GAUGE, GAGE
 GALV: GALVANIZED
 GB: GRAB BAR
 GC: GENERAL CONTRACTOR
 GFCI: GROUND FAULT CIRCUIT INTERRUPTED
 GMS: GALVANIZED METAL STUDS
 GWB: GYPSUM WALLBOARD
 GYP BD: GYPSUM BOARD
 HB: HOSE BIB
 HC: HOLLOW CORE, HANDICAPPED (ACCESSIBLE)
 HDWE: HARDWARE
 HM: HOLLOW METAL
 HMP: HOLLOW METAL, PAINTED
 HW: HOT WATER
 J-BOX: JUNCTION BOX
 JT: JOINT
 LAV: LAVATORY
 LBL: LABEL
 LH: LEFT HAND
 LL: LIVE LOAD
 LT WT: LIGHTWEIGHT
 MH: MANHOLE
 MO: MASONRY OPENING
 MULL: MULLION
 NIC: NOT IN CONTRACT
 NRP: NON-REMOVABLE PIN
 NTS: NOT TO SCALE
 OA: OUTSIDE AIR
 OC: ON CENTER
 OD: OUTSIDE DIAMETER
 OFCI: OWNER FURNISHED CONTRACTOR INSTALLED
 OFOI: OWNER FURNISHED OWNER INSTALLED
 OPP: OPPOSITE
 OPP H: OPPOSITE HAND
 P: PAINT
 P-LAM: PLASTIC LAMINATE
 PIV: POST INDICATOR VALVE
 PLAS LAM: PLASTIC LAMINATE
 PLG: PLUMBING
 PR: PAIR
 PT: PAINT
 QT: QUARRY TILE
 RCP: REFLECTED CEILING PLAN
 REC: REINFORCED CONCRETE PIPE
 RD: ROOF DRAIN
 REC/P: RECEPTACLE
 RES: RESILIENT
 RWL: RAIN WATER LEADER
 SHR: SHOWER
 SIM: SIMILAR
 SK: SINK
 SS: STAINLESS STEEL
 STD: STANDARD
 STL: STEEL
 STOR: STORAGE
 T: THERMOSTAT
 TAB: TOP AND BOTTOM
 TC: TOP OF CURB
 TEL: TELEPHONE
 THRU: THROUGH
 TOP: TOP OF PAVEMENT
 TOS: TOP OF STEEL
 UC: UNDERCUT
 UNO: UNLESS NOTED OTHERWISE
 VCT: VINYL COMPOSITION TILE
 VF: VERIFY IN THE FIELD

GENERAL NOTES

- COORDINATION: THE GENERAL CONTRACTOR, SUBCONTRACTORS, VENDORS, MANUFACTURERS, ETC. ARE RESPONSIBLE FOR THE REVIEW OF ALL CONTRACT DRAWINGS TO ASSURE ALL WORK IS PROPERLY COORDINATED BETWEEN ALL PARTIES. THE FAILURE TO REVIEW AND COORDINATE THE WORK SHALL NOT RELIEVE THE APPLICABLE PARTIES FROM PROVIDING ALL REQUIRED WORK.
- SAFETY: PROVIDE AND MAINTAIN BARRICADES, TEMPORARY LIGHTING, AND OTHER SAFETY DEVICES REQUIRED BY APPLICABLE REGULATORY AGENCIES FOR THE PROTECTION OF BUILDING OCCUPANTS AND WORKERS.
- TIMELY COORDINATION: THE GENERAL CONTRACTOR SHALL SCHEDULE, COORDINATE, CONSTRUCT AND REVIEW ALL WORK IN A TIMELY MANNER TO AVOID DELAYS.
- EXISTING CONDITIONS: DOCUMENTS ARE BASED ON AVAILABLE INFORMATION PROVIDED TO AND GATHERED BY THE DESIGN TEAM. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- SITE: COORDINATE USE OF SITE WITH CLIENT PRIOR TO THE START OF CONSTRUCTION.
- SITE ACCESS: MAINTAIN A SAFE AND APPROVED MEANS OF EGRESS IN AND OUT OF THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
- DRAWINGS: DRAWINGS ARE NOT TO BE SCALED. RELY ON INDICATED DIMENSIONS, ACTUAL SIZE OF CONSTRUCTION ITEMS, AND CONFIGURATION OF ANY EXISTING CONDITIONS. WHERE ADDITIONAL INFORMATION IS REQUIRED TO COORDINATE AND CONSTRUCT THE WORK THE GENERAL CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT PRIOR TO THE START OF SUCH WORK.
- DIMENSIONS: DIMENSIONS ARE GENERALLY FROM FINISHED FACE TO FINISHED FACE OF PARTITION (MASONRY OR GYPSUM BOARD PARTITIONS). DIMENSIONS IDENTIFIED AS CLEAR SHALL BE A MINIMUM FACE TO FACE DIMENSION TO FINISHED MATERIALS UNLESS OTHERWISE NOTED.
- OWNER FURNISHED EQUIPMENT: COORDINATE ALL SUCH EQUIPMENT INSTALLATION WITH THE OWNER. PRIOR TO ROUGH-IN, VERIFY SIZE, REQUIREMENTS, CLEARANCES, BLOCKING, SUPPORTS, UTILITIES, ETC. ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO STARTING ANY WORK.
- PROTECT EQUIPMENT PRIOR TO, DURING AND AFTER INSTALLATION.
- MECHANICAL, ELECTRICAL & PLUMBING COORDINATION: ALL DUCTS, PIPE, CONDUIT, ETC. (HORIZONTAL AND VERTICAL) IN FINISHED SPACES SHALL BE CONCEALED IN FINISHED WALLS, ABOVE CEILINGS OR IN FURRED OUT CHASES WHETHER SHOWN OR NOT. CHASE CONSTRUCTION SHALL MATCH CONSTRUCTION OF ADJACENT FINISHED SURFACES.
- ACCESS PANELS: FURNISH AND INSTALL ALL ACCESS PANELS IN WALLS AND INACCESSIBLE AREAS REQUIRED FOR THE SERVICE AND ADJUSTMENT OF MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS. ALL REQUIRED ACCESS PANELS MAY NOT BE SHOWN ON THE DRAWINGS.

CUTTING & PATCHING

STRUCTURAL ELEMENTS: WHERE CUTTING AND PATCHING INVOLVE ADDING REINFORCEMENT TO STRUCTURAL ELEMENTS, SUBMIT DETAILS AND ENGINEERING CALCULATIONS SHOWING INTEGRATION OF REINFORCEMENT WITH ORIGINAL STRUCTURE.

USE MATERIALS IDENTICAL TO IN-PLACE MATERIALS. FOR EXPOSED SURFACES, USE MATERIALS THAT VISUAL MATCH IN-PLACE ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE.

PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE.

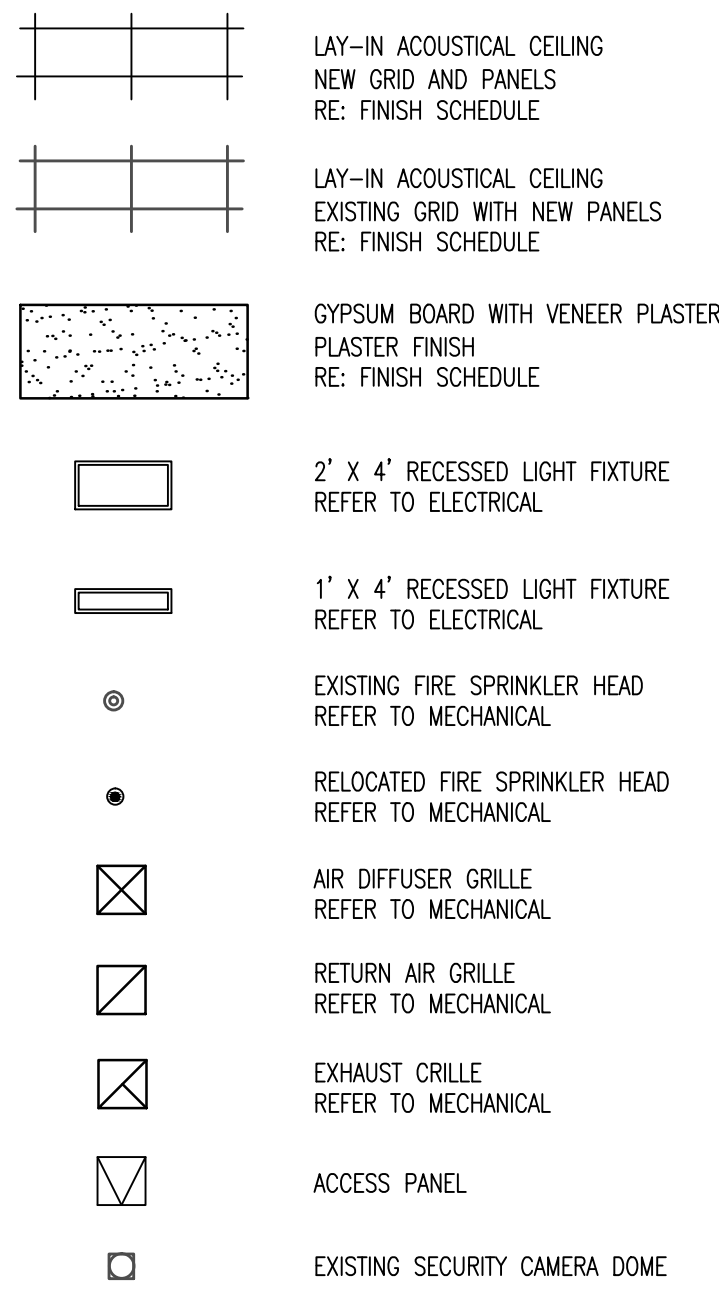
RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.

FLOORS AND WALLS: WHERE WALLS OR PARTITIONS ARE REMOVED EXTEND ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES AT THE AREA OF NEW WORK. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE. REMOVE IN-PLACE FLOOR AND WALL COVERING AND REPLACE WITH NEW MATERIALS, IF NECESSARY, TO ACHIEVE UNIFORM COLOR AND APPEARANCE.

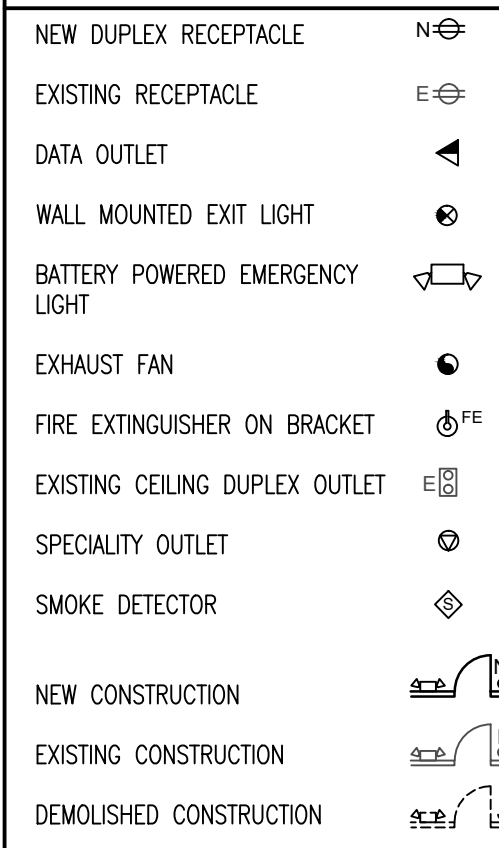
CEILINGS: PATCH, REPAIR, OR RE-HANG IN-PLACE CEILING AS NECESSARY TO PROVIDE AN EVEN-PLANE SURFACE OF UNIFORM APPEARANCE.

CLEANING: CLEAN AREAS AND SPACES WHERE CUTTING AND PATCHING ARE PERFORMED. COMPLETELY REMOVE PAINT, MORTAR, OILS, PUTTY AND SIMILAR MATERIALS.

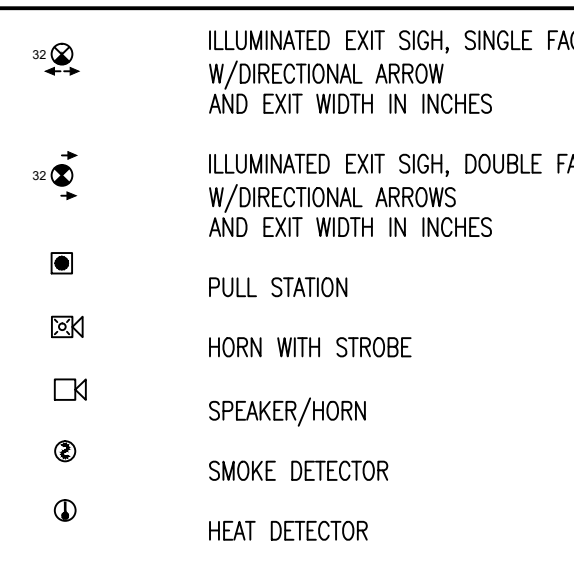
REFLECTED CEILING LEGEND



SYMBOLS LEGEND



LIFE SAFETY LEGEND

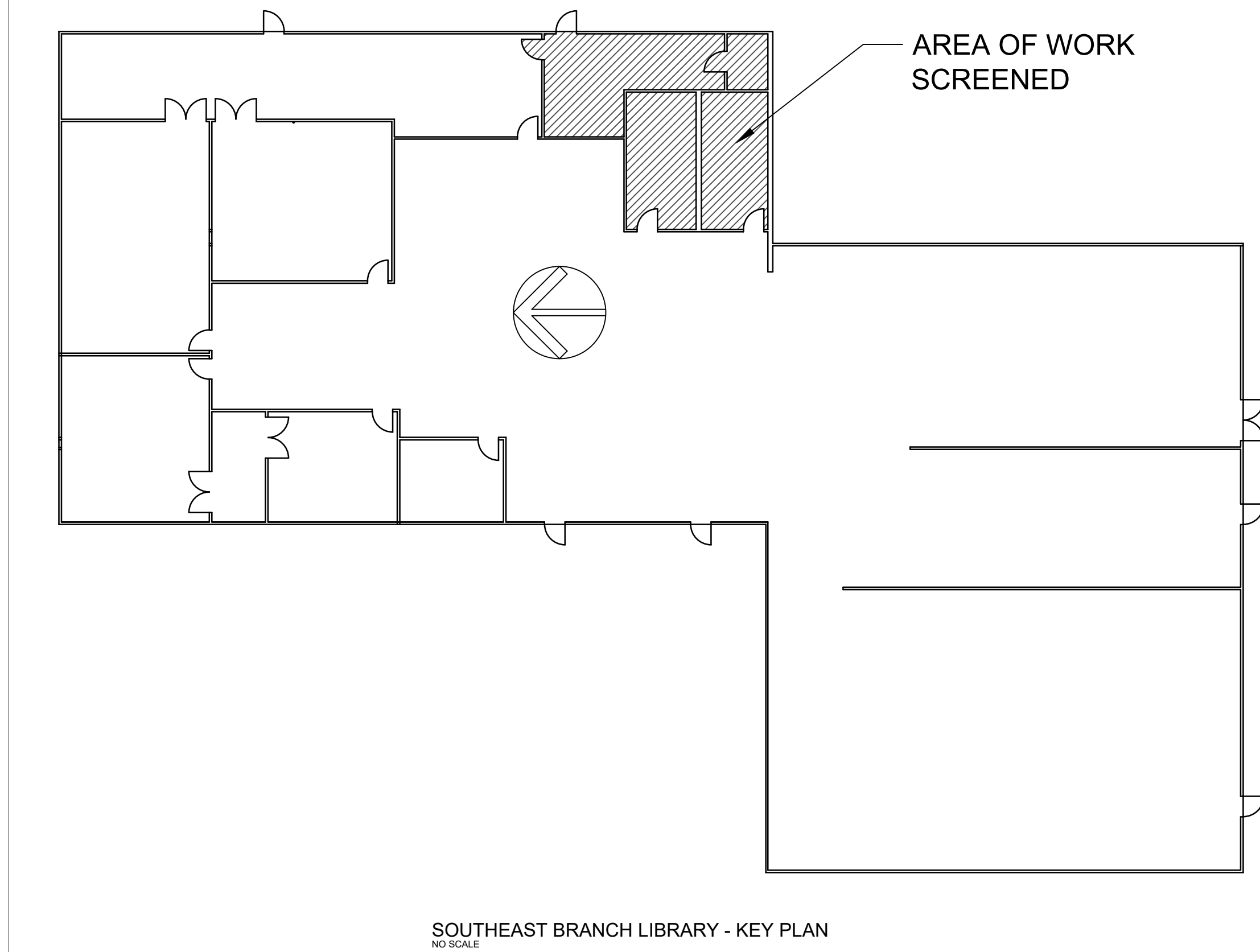


APPLICABLE BUILDING CODES

2017 FLORIDA BUILDING CODE, 6TH EDITION ACCESSIBILITY
 2017 FLORIDA BUILDING CODE, 6TH EDITION BUILDING
 2017 FLORIDA BUILDING CODE, 6TH EDITION ENERGY CONSERVATION
 2017 FLORIDA BUILDING CODE, 6TH EDITION EXISTING BUILDING
 2017 FLORIDA BUILDING CODE, 6TH EDITION MECHANICAL
 2017 FLORIDA BUILDING CODE, 6TH EDITION PLUMBING
 2017 FLORIDA BUILDING CODE, 6TH EDITION TEST PROTOCOLS
 2017 FLORIDA ENERGY CODE, 6TH EDITION
 2014 NATIONAL ELECTRICAL CODE (NFPA 70)
 2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION
 2017 FBC TEST PROTOCOLS
 NFPA & NFPA 101 (2012) AS INCORPORATED INTO FFPC, 6TH EDITION

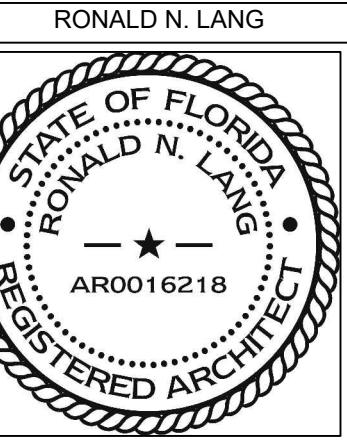
DESCRIPTION OF THE WORK

THE PROJECT IS LIMITED TO THE REFURBISHMENT OF THE EXISTING PUBLIC RESTROOMS, STAFF RESTROOM AND STAFF KITCHEN/BREAKROOM. THE REFURBISHMENT INVOLVES NEW FLOOR, WALL AND CEILING FINISHES, NEW LIGHTING, AND THE REPLACEMENT OF ALL TOILET FIXTURES AND ACCESSORIES. THE EXISTING WATER AND SEWAGE SYSTEMS WILL BE UTILIZED FOR THE IMPROVEMENTS.



Architecture
 Planning
 Programming
RLArchitecture
 AA2602035
 301 S SWEETWATER COVE BLVD.
 LONGWOOD, FL 32779
 (407) 756-7933

**ORANGE COUNTY LIBRARY SYSTEM
 RESTROOM REFURBISHMENT**
 SOUTH EAST BRANCH
 5575 S SEMORAN BLVD., ORLANDO, FL.
 CONTRACT DOCUMENTS



AR0016218
 RLA PROJ. NO: 10420
 DRAWN BY: IMT
 CHECKED BY: RL
 DATE: 03/22/19

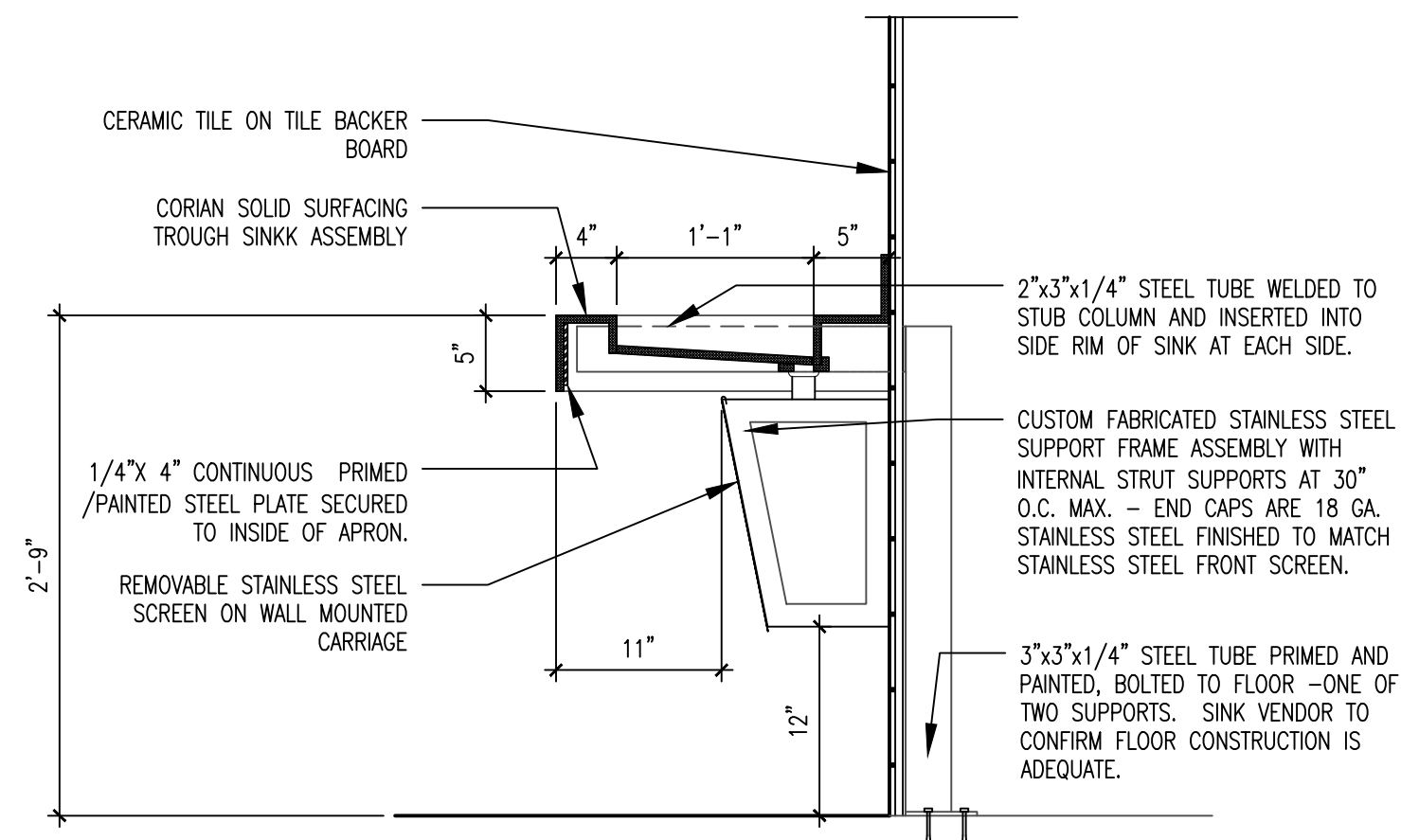
REVISED

DRAWING TITLE:
**GENERAL
 NOTES &
 LEGENDS**

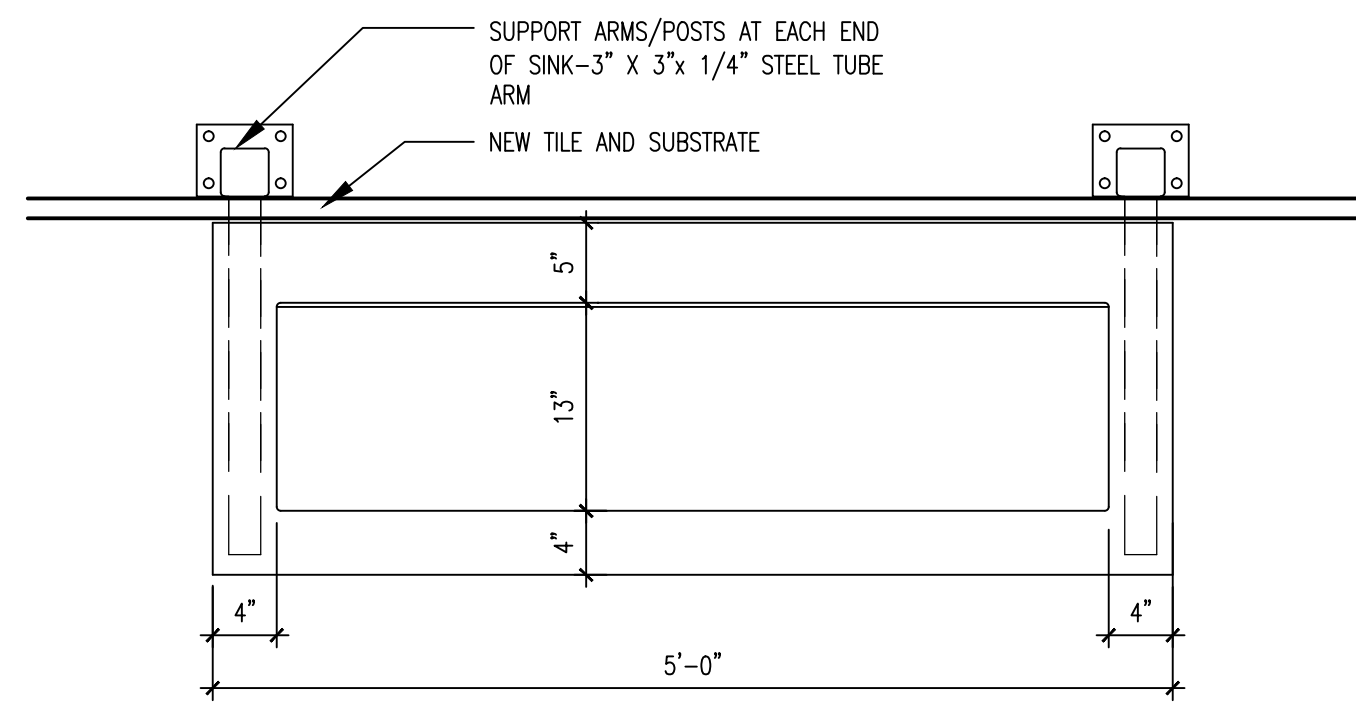
A-1.01

DRAWING INDEX

- COVER SHEET
- A-1.01 GENERAL NOTES AND LEGENDS
 - A-1.1 SOUTH EAST DEMO & RENOVATION PLANS
 - A-1.2 SOUTH EAST INTERIOR ELEVATIONS & DETAILS
 - IN-1 SOUTH EAST INTERIORS - TILE PATTERNS & FINISHES
 - E-100 ELECTRICAL SPECIFICATIONS & PANELS
 - E-101 SOUTH EAST DEMOLITION PLAN
 - E-102 SOUTH EAST LIGHTING PLAN
 - E-103 SOUTH EAST POWER PLAN
 - M-2.01 SOUTH EAST MECHANICAL PLAN
 - P-2.01 SOUTH EAST PLUMBING FLOOR PLANS, NOTES & SCHEDULES



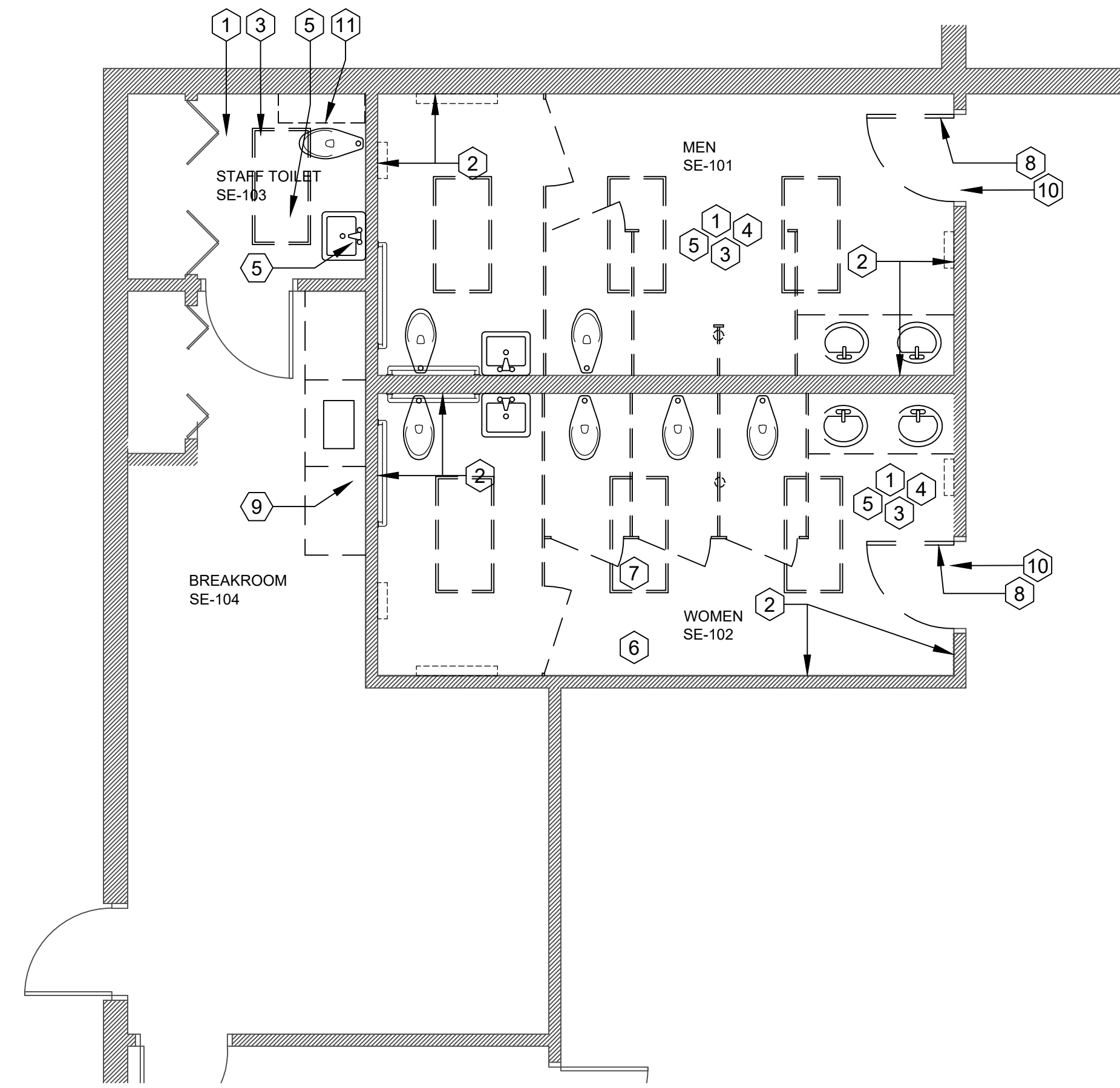
SECTION VIEW



PLAN VIEW

1 TROUGH SINK DETAILS
SCALE: 1" = 1'-0"

NOTE: TROUGH SINK ASSEMBLY WILL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR - GENERAL CONTRACTOR TO SCHEDULE, COORDINATE AND SUPERVISE THE WORK.



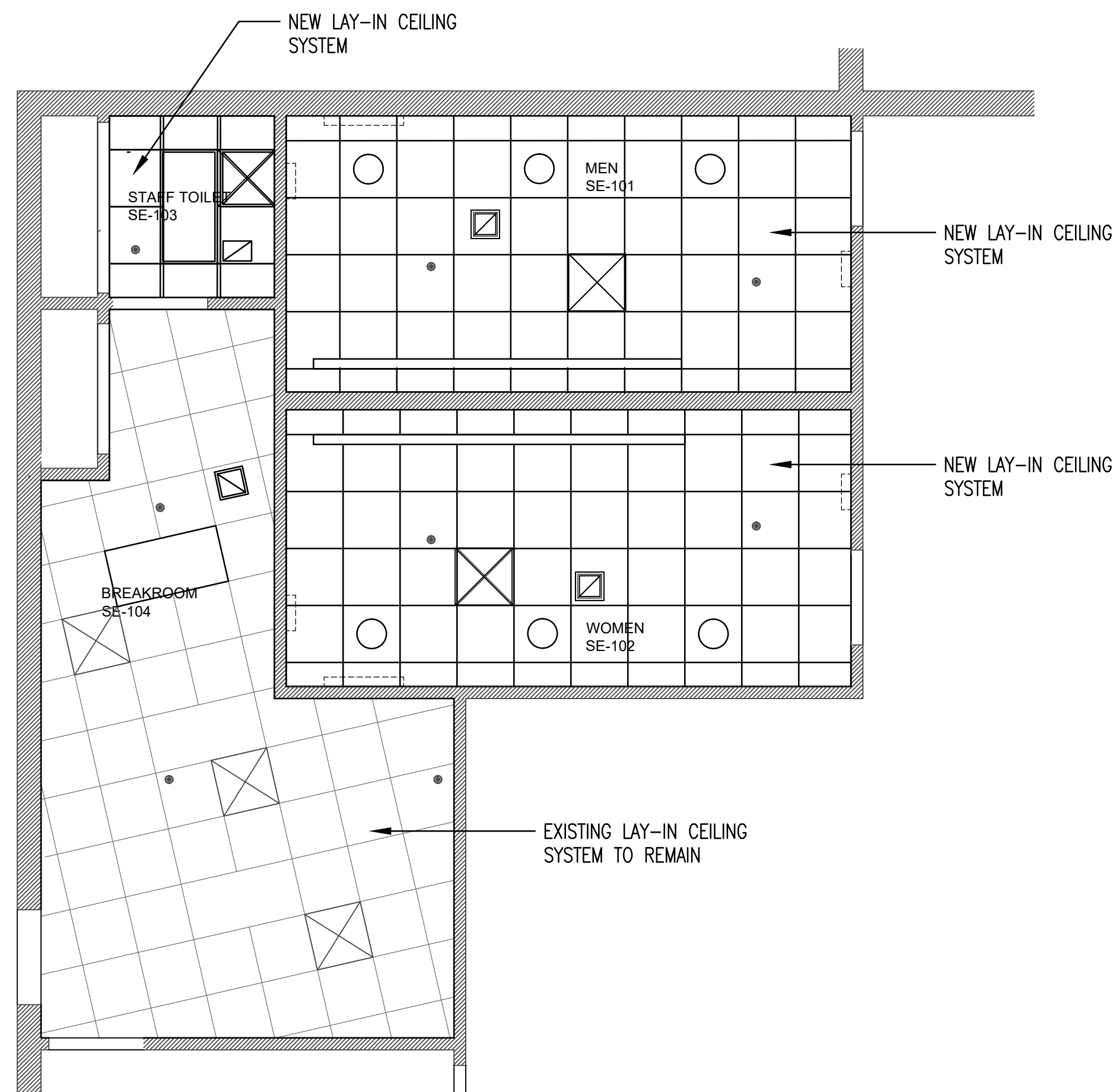
SOUTHEAST BRANCH
DEMOLITION FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

GENERAL DEMOLITION NOTES

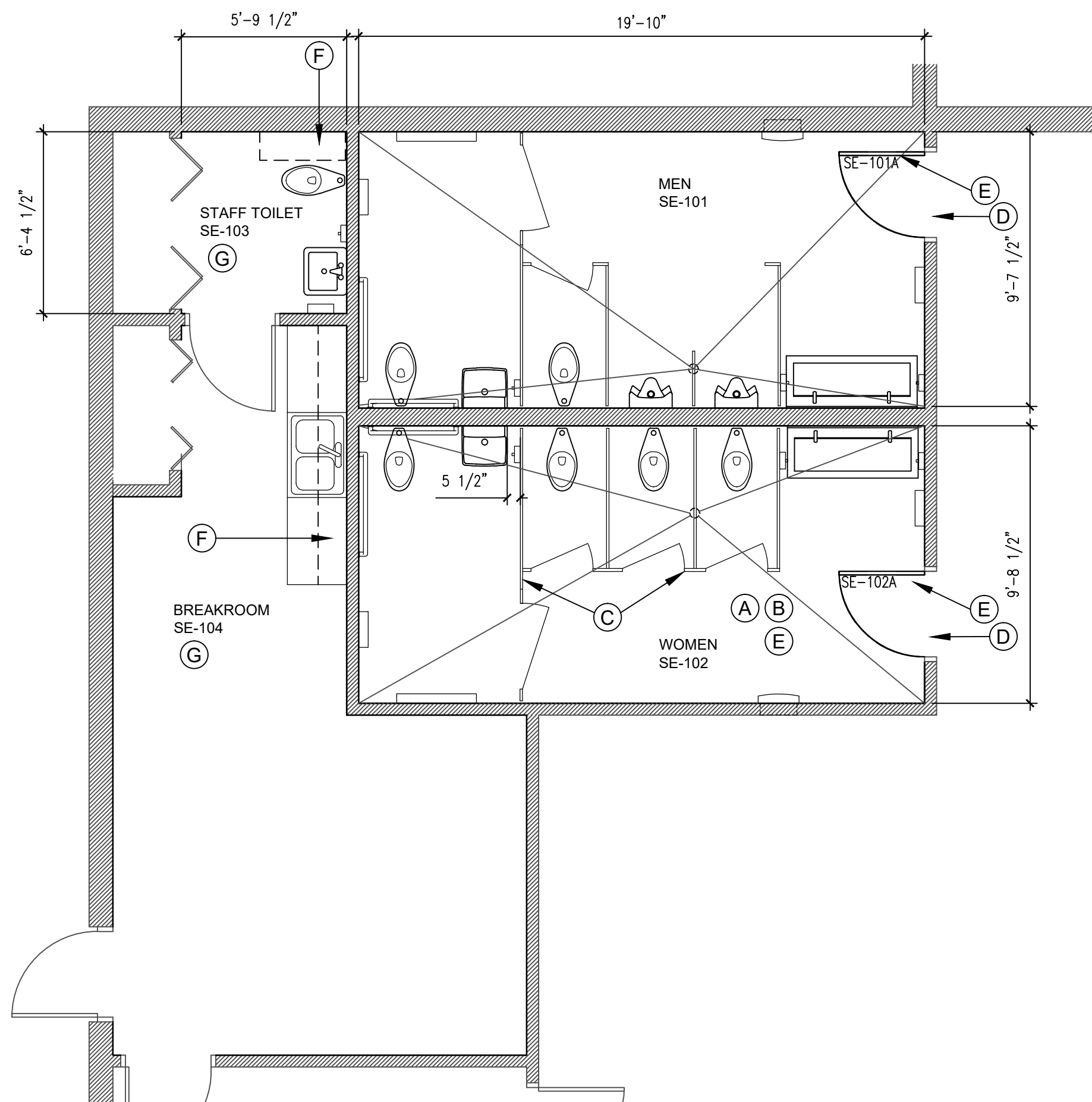
1. REFER TO SPECIFICATIONS FOR GENERAL CONSTRUCTION, DEMOLITION AND PROCEDURAL NOTES.
2. CONSULT WITH OWNER'S REPRESENTATIVE ON THE DISPOSITION OF EQUIPMENT AND SALVAGED ASSEMBLIES IDENTIFIED FOR DEMOLITION AND REMOVAL UNDER THIS CONTRACT.
3. USE CARE IN REMOVING ITEMS IDENTIFIED FOR SALVAGE.
4. PROTECT ALL EVACUATION SIGNS AND DOOR SIGNAGE. IF REMOVED, SAVE FOR RE-INSTALLATION, IF LOST REPLACE WITH SIMILAR SIGNAGE TO MATCH EXISTING.

DEMOLITION NOTES

- 1 DEMOLISH EXISTING TILE FLOORING AND BASE AND PREPARE CONCRETE SURFACE FOR NEW TILE FINISH.
- 2 DEMOLISH WALL TILE AND BACKER BOARD. PREPARE FRAMING FOR NEW BACKER BOARD AND NEW TILE FINISHES.
- 3 DEMOLISH ALL SINKS, WATER CLOSETS, URINALS, COUNTERTOPS, AND MIRRORS UNLESS OTHERWISE NOTED.
- 4 DEMOLISH ALL TOILET PARTITIONS.
- 5 SALVAGE ALL SOAP DISPENSERS, GRAB BARS, TOILET TISSUE DISPENSERS, TOILET SEAT COVER DISPENSERS, HAND DRYERS, NAPKIN DISPOSAL UNITS, WALL MOUNTED BABY CHANGING STATIONS AND SS FRAMED MIRRORS TO THE OWNER.
- 6 REMOVE & PROTECT FOR REINSTALLATION ALL FIRE ALARM DEVICES, AND EMERGENCY LIGHTING FIXTURES.
- 7 DEMOLISH EXISTING LAY-IN CEILING SYSTEM, LIGHTING, SUPPLY/RETURN REGISTERS AND EXHAUST FAN COVERS. PROTECT FIRE SPRINKLER HEADS. REFER TO MECHANICAL.
- 8 DEMOLISH ENTRANCE DOORS & HARDWARE. REPAIR DENTS AND SCRATCHES AT FRAMES TO REMAIN AND PREPARE FOR NEW PAINT FINISH.
- 9 DEMOLISH MILLWORK, SINK AND UPPER CABINETS
- 10 DEMOLISH STONE THRESHOLD AT RESTROOM ENTRANCE DOORS.
- 11 DEMOLISH EXISTING UPPER CABINET.



SOUTHEAST BRANCH
REFLECTED CEILING PLAN
1/4" = 1'-0"
0 2' 4' 8'



SOUTHEAST BRANCH
RENOVATION FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

GENERAL RENOVATION NOTES

1. REFER TO SPECIFICATIONS FOR GENERAL CONSTRUCTION AND PROCEDURAL NOTES.
2. ALL LIFE SAFETY ITEMS (HORNS, STROBES, EMERGENCY LIGHTS, ETC.) WILL BE REUSED. REMOVE AS REQUIRED TO COMPLETE WORK AND RE-INSTALL AFTER WORK IS IN PLACE.
3. PAINT HM FRAMES IN THE AREA OF WORK TO MATCH EXISTING FRAME COLOR IN ADJACENT AREA UNLESS OTHERWISE DIRECTED.
4. PROVIDE NEW CEILING SYSTEM, LIGHTING, SUPPLY/RETURN REGISTERS AND EXHAUST FAN COVERS. PROTECT FIRE SPRINKLER HEADS. REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL SCOPE.
5. NEW TOILET PARTITIONS ARE GENERALLY INSTALLED AT THE MID-POINT BETWEEN ADJACENT FIXTURES - FIXTURES ARE NEW BUT UTILIZE EXISTING WASTE LINE CONNECTIONS.
6. RESTROOM ACCESSORIES ARE IDENTIFIED AND LOCATED ON THE INTERIOR ELEVATIONS.
7. ALL TILE (FLOORING AND WALLS) WILL BE PROVIDED AND INSTALLED UNDER THE OWNER'S STATE CONTRACT. GENERAL CONTRACTOR TO SCHEDULE, COORDINATE, AND SUPERVISE THE WORK.

RENOVATION NOTES

- A NEW TILE FLOOR FINISH. REFER TO IN-1 FOR TILE TYPES AND PATTERNS.
- B NEW TILE WALL FINISH OVER NEW TILE BACKER BOARD AT WALLS - REFER TO IN-1 FOR TILE TYPES AND PATTERNS.
- C NEW FLOOR MOUNTED TOILET PARTITIONS-REFER TO SPECS. PROVIDE BLOCKING AT WALLS FOR PARTITION SUPPORT BRACKETS.
- D PROVIDE NEW STONE THRESHOLD AT ENTRANCE DOOR. COLOR TO MATCH TILE.
- E NEW DOOR AND HARDWARE. PREP & PAINT EXISTING FRAME TO REMAIN. REFER TO 13/A-2
- F NEW MILLWORK RE: SHEET A-2
- G PAINT ALL WALLS AT STAFF BREAKROOM & GYPSUM BOARD WALLS AT STAFF TOILET ROOM.
SHERWIN-WILLIAMS CO.
COAT 1 PROMAR 200 ZERO VOC INTERIOR PAINT-B2BW02600-2 MILS, DFT
COAT 2 PROMAR 200 ZERO VOC S/G B30 2600 SERIES-2 MILS, DFT
COAT 3 PROMAR 200 ZERO VOC S/G B30 2600 SERIES-2 MILS, DFT



Architecture
Planning
Programming
RLArchitecture
AA2002035
301 S SWEETWATER COVE BLVD.
LONGWOOD, FL 32779
(407) 756-7953

ORANGE COUNTY LIBRARY SYSTEM
RESTROOM REFURBISHMENT
SOUTHEAST BRANCH
5575 S SEMORAN BLVD., ORLANDO, FL.
CONTRACT DOCUMENTS

RONALD N. LANG



AR0016218

RLA PROJ. NO: 10420

DRAWN BY: IMT

CHECKED BY: RL

DATE 03/22/19

REVISED

DRAWING TITLE:

SOUTHEAST
BRANCH
FLOOR PLANS

SPECIFICATIONS - DIVISION 26 - ELECTRICAL

16200 ELECTRICAL SERVICE SYSTEM

1.01 IN GENERAL, ALL ELECTRICAL EQUIPMENT, METALLIC CONDUIT, MOTOR FRAMES, PANEL-BOARDS, ETC., SHALL BE GROUNDED WITH A SEPARATE GREEN SYSTEM GROUNDING CONDUCTOR RUN FROM THE MAIN SWITCH GROUND TO ALL PANELS AND FROM GROUNDING LUGS ON EACH PANEL TO EACH BRANCH CIRCUIT DEVICE AND FIXTURE IN ACCORDANCE WITH THE SPECIFIC RULES OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. ALL PANELS SHALL HAVE A SEPARATE NEUTRAL BAR ISOLATED FROM STANDARD NEUTRAL BAR FOR GROUNDING.

1.02 THE FACILITIES AND EQUIPMENT REQUIRED TO PROVIDE ALL ELECTRIC POWER FOR CONSTRUCTION, LIGHTING, BALANCING AND TESTING CONSUMED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE PROVIDED UNDER THE ELECTRICAL CONTRACT.

16300 ELECTRICAL DISTRIBUTION SYSTEM

1.01 ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. SWITCHES SHALL BE QUIET TYPE. RECEPTACLES SHALL HAVE GROUND TERMINAL. SEE EQUIPMENT SCHEDULE.

16400 LIGHTING FIXTURES

1.01 ALL LIGHT FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS, AND ALL NECESSARY MOUNTING HARDWARE, HANGERS AND TRIM. LIGHT FIXTURES SHALL BE BID AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE. ALL FLUORESCENT BALLASTS SHALL BE AUTO-RESET, CLASS P, ETL, CBM WITH EXTERNAL FUSE AND FUSE HOLDER. ALL FLUORESCENT LAMPS AND BALLASTS TO BE ENERGY SAVING TYPE.

RACEWAYS AND FITTINGS: ALL RACEWAYS SHALL BE GALVANIZED RIGID STEEL WITH LOCKNUTS AND BUSHINGS, WITH THE EXCEPTION THAT WHERE SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES, BRANCH CIRCUIT RACEWAYS MAY BE (E.M.T.) ELECTRICAL METALLIC TUBING OR PVC SCHEDULE 40. (PVC MAY BE USED BELOW GRADE ONLY.) E.M.T. SHALL BE JOINED WITH STEEL COMPRESSION TYPE FITTINGS.

BASIC MATERIALS AND METHODS

CONDUCTORS: BRANCH CIRCUIT CONDUCTORS SHALL BE (#12 UNLESS OTHERWISE NOTED) "THW OR THHN" COPPER (NO ALUMINUM SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE). ALL BRANCH CIRCUITS SHALL BE WREDED WITH COLOR-CODED WIRE WITH THE SAME COLOR USED FOR A PHASE THROUGHOUT. COLOR-CODE SHALL BE AS FOLLOWS: PHASE A- BLACK, PHASE B- RED, PHASE C- BLUE, NEUTRAL- WHITE, GROUND- GREEN.

MC CABLE AS PERMITTED BY THE NEC IS ALLOWED FOR BRANCH CIRCUITS. MC CABLE SHALL HAVE A GREEN, INSULATED GROUNDING CONDUCTOR.

PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE & PROPERLY OPERATING SYSTEM.

CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE 2014 NATIONAL ELECTRICAL CODE, THE LOCAL COUNTY ELECTRICAL CODE AND POWER COMPANY. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, & SHALL BEAR THE UNDERWRITERS' LABEL.

CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.

ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.

SPECIAL REQUIREMENTS: SUBMIT FIVE (5) COPIES OF TECHNICAL INFORMATION ON ALL EQUIPMENT IN BINDER, MARK-UP PRINTS OF THE DESIGN DRAWINGS WITH RED PENCIL AS ITEMS ARE INSTALLED, AND SUBMIT TWO COPIES SHOWING AN ACCURATE "AS-BUILT" RECORD OF THE ENTIRE SYSTEM. TEST EACH ITEM OF EQUIPMENT, AND SUBMIT TABULATED TEST INFORMATION, SECURE FROM THE MANUFACTURER'S REPRESENTATIVE. A CHECK-OUT MEMO ON EACH ITEM OF EQUIPMENT, GIVE THE OWNER INSTRUCTION IN THE OPERATION OF THE SYSTEM. SECURE FROM THE OWNER A SIGNED MEMO STATING THAT TECHNICAL INFORMATION, AS-BUILT DRAWINGS AND INSTRUCTIONS IN OPERATION HAVE BEEN RECEIVED; SUBMIT COPY TO THE ARCHITECT.

BRANCH CIRCUIT WIRING NOTES:

VOLTAGE DROP SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD. (FBC 13-413.1.ABC.1.2 BRANCH CIRCUITS.)

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

PROVIDE A GREEN GROUND CONDUCTOR IN ALL CIRCUITS, APPROPRIATELY SIZED INCREASE CONDUITS TO ACCOMMODATE GROUND CONDUCTOR.

UNLESS SHOWN OTHERWISE (BRANCH CIRCUITING INSTRUCTIONS):

6. 1600 WATTS MAXIMUM PER 20A/1P BRANCH CIRCUIT, UNLESS SHOWN OTHERWISE.
- 6 CONV. OUTLETS MAXIMUM PER 20A/1P BRANCH CIRCUIT.

FEEDER NOTES:

VOLTAGE DROP: FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. (FBC 13-413.1.ABC.1.1 FEEDERS.)

ELECTRICAL DEMOLITION NOTES

ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.

COORDINATE SEQUENCING WITH OWNER & OTHER CONTRACTORS.

DEVICES & CONNECTIONS SHOWN ON PLANS WERE TAKEN FROM A SITE VISITATION. THESE PLANS MAY NOT BE ENTIRELY ACCURATE. THEY ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OF WHAT EQUIPMENT IS BEING REMOVED, DISCONNECTED OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF SITE TO DETERMINE ACTUAL CONDITIONS OF THE INSTALLATION AND/OR THE EXISTING EQUIPMENT BEFORE SUBMITTING BID.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE INTEGRITY OF REMAINING DEVICES OR EQUIPMENT, AND ANY SUCH CONNECTION SHALL BE CONCEALED UNLESS LOCATED IN UNFINISHED AREAS.

DISCONNECT, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL MATERIAL AND EQUIPMENT THAT INTERFERES WITH NEW INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO PANELS, LIGHTING FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, BASEBOARD HEATERS, UNIT HEATERS, ECT.

SEE MECHANICAL DRAWINGS FOR HEATERS, EXHAUST FANS, ETC., WHICH MUST BE DISCONNECTED BY THE CONTRACTOR FOR REMOVAL OR ABANDONMENT BY MECHANICAL CONTRACTOR.

REMOVE ALL CONDUIT WIRE, BOXES AND FASTENING DEVICES, AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.

ABANDONED CONDUIT SHALL BE CAPPED AT BOTH ENDS.

ANY PRESENT FLOOR OUTLETS OCCURRING SHALL BE CAPPED FLUSH WITH FLOOR.

ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY THIS CONTRACTOR UNLESS DIRECTED TO DO OTHERWISE BY THE OWNER.

WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENING, ETC.) RESULTS IN THE REMOVAL, RELOCATION OF REFEEDING OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RECONNECT AS REQUIRED ALL ACTIVE DEVICES SOME TO SUIT CONFLICTING EQUIPMENT.

THE COVERS ON ALL JUNCTION OR PULL BOXES IN UNFINISHED AREAS SHALL BE MARKED WITH A "MAGIC MARKER" TO INDICATE CIRCUIT NUMBER & SERVING PANEL OF CONDUCTORS OR SYSTEM CABLES ASSOCIATED WITH EACH BOX.

CONTRACTOR CAN REUSE EXISTING UNDERSLAB CONDUIT IF APPLICABLE FOR PULLING NEW CIRCUIT WIRING.

EXISTING PANEL D

240/120 VOLTS 1 PHASE 3 WIRE 200 AMPS M.C.B. M.L.O. SINGLE PANEL
 22 KAIC DOUBLE PANEL
 TYPE: SQUARE D NEMA 1 SURFACE
 NQOD RECESSED

LOAD	KVA			PHASE						KVA			LOAD
	OTHER	REC	LTG	BK	PL	A	C	PL	BK	LTG	REC	OTHER	
AIR HANDLER #6				2/60	1	X		2	2/60				AIR HANDLER #5
ROOF TOP				2/50	5	X		6	2/50				AC ROOF TOP
COPIER				1/20	9	X		10	1/20				OFFICE LIGHTS
CLOCK				1/20	11		X	12	1/20				OFFICE LIGHTS
OFFICE RECEP				1/20	13	X		14	1/20				OFFICE LIGHTS
OFFICE RECEP				1/20	15		X	16	1/20				OFFICE LIGHTS
OFFICE RECEP				1/20	17	X		18	1/20				FRONT LIGHTS
OFFICE RECEP				1/20	19		X	20	1/20				FRONT LIGHTS
FRONT LIGHTS				1/20	21	X		22	1/20				FRONT LIGHTS
WORK ROOM LIGHTS				1/20	23		X	24	1/20				FRONT LIGHTS
FRONT LIGHTS				1/20	25	X		26	1/20				BACK WALL LIGHTS
FRONT LIGHTS				1/20	27		X	28	1/20				EMERG LIGHTS
BACK LIGHTS				1/20	29	X		30	1/20				BACK LIGHTS
EXISTING LOAD				1/20	31		X	32	1/20				FLOOR BOX
EXISTING LOAD				1/20	33	X		34	1/20				FLOOR BOX
EXISTING LOAD				1/20	35		X	36	1/20				EXISTING LOAD
EXISTING LOAD				1/20	37	X		38	1/20				EXISTING LOAD
EXISTING LOAD				1/20	39		X	40	1/20				EXISTING LOAD
EXISTING LOAD				1/20	41	X		42	1/20				EXISTING LOAD
SUB TOTALS	0.00	0.00	0.00							0.00	0.00	0.00	SUB TOTALS
TOTAL CONN. KVA	0.00									0.00 0.00 0.00			CONNECTED KVA
TOTAL DEMAND KVA	0.00									1.25 1.0 1.0			DEMAND FACTOR
VOLTAGE	240									0.00 0.00 0.00			DEMAND KVA
DEMAND AMPS	0.00												

EXISTING PANEL B

240/120 VOLTS 3 PHASE 4 WIRE 200 AMPS M.C.B. M.L.O. SINGLE PANEL
 22 KAIC DOUBLE PANEL
 TYPE: SQUARE D NEMA 1 SURFACE
 NQOD RECESSED

LOAD	KVA			PHASE						KVA			LOAD
	OTHER	REC	LTG	BK	PL	A	C	PL	BK	LTG	REC	OTHER	
EXISTING LOAD				1/20	1	X		2	2/50				EXISTING LOAD
EXISTING LOAD				1/20	3			4					EXISTING LOAD
EXISTING LOAD				1/20	5		X	6	2/60				AHU#2
EXISTING LOAD				1/20	7	X		8					
EXISTING LOAD				1/20	9			10	1/20				EXISTING LOAD
EXISTING LOAD				1/20	11		X	12	1/20				EXISTING LOAD
EXISTING LOAD				1/20	13	X		14	1/20				EXISTING LOAD
EXISTING LOAD				1/20	15			16	1/20				EXISTING LOAD
EXISTING LOAD				1/20	17		X	18	1/20				EXISTING LOAD
EXISTING LOAD				1/20	19	X		20	1/20				EXISTING LOAD
EXISTING LOAD				1/20	21			22	1/20				EXISTING LOAD
EXISTING LOAD				1/20	23		X	24	1/20				EXISTING LOAD
EXISTING LOAD				1/20	25	X		26	1/20				EXISTING LOAD
EXISTING LOAD				1/20	27			28	1/20				EXISTING LOAD
SPACE				1/20	29		X	30	1/20				SPACE
SUB TOTALS	0.00	0.00	0.00							0.00	0.00	0.00	SUB TOTALS
TOTAL CONN. KVA	0.00									0.00 0.00 0.00			CONNECTED KVA
TOTAL DEMAND KVA	0.00									1.25 1.0 1.0			DEMAND FACTOR
VOLTAGE	240									0.00 0.00 0.00			DEMAND KVA
DEMAND AMPS	0.00												

EXISTING PANEL C

240/120 VOLTS 3 PHASE 4 WIRE 200 AMPS M.C.B. M.L.O. SINGLE PANEL
 22 KAIC DOUBLE PANEL
 TYPE: SQUARE D NEMA 1 SURFACE
 NQOD RECESSED

LOAD	KVA			PHASE						KVA			LOAD
	OTHER	REC	LTG	BK	PL	A	C	PL	BK	LTG	REC	OTHER	
A/C				2/60	1	X		2	1/20				SPARE
SPARE				1/20	3			4	1/20				EXIT AND EMERGENCY LIGHTS
SPARE				1/20	5		X	6	1/20				POWER POLE
SPARE				1/20	7	X		8	1/20				EXIT AND EMERGENCY LIGHTS
SHOWROOM RECEPTACLES				1/20	9			10	1/20				SHOW ROOM OUTLETS
RR OUTLS ACCESS CONTROL				1/20	11		X	12	1/20				POWER POLE
EXHAUST FAN KITCHEN				1/20	13	X		14	1/20				SHOW ROOM OUTLETS
RECEPTACLE				1/20	15			16	1/20				SPARE
HANDICAPPED DRYERS				1/20	17		X	18	2/30				WATER HEATER
LIGHT STAFF RESTR MENS BOTH ADA DRYER				1/20	19	X		20	---				---
A/C ROOF TOP				2/40	21			22	2/60				AHU
A/C ROOF TOP				---	23		X	24	---				---
A/C ROOF TOP				2/50	25	X		26	2/20				AHU
SPACE				---	27			28	---				---
SPACE				---	29		X	30	---				SPACE
SUB TOTALS	0.00	0.00	0.00							0.00	0.00	0.00	SUB TOTALS
TOTAL CONN. KVA	0.00									0.00 0.00 0.00			CONNECTED KVA
TOTAL DEMAND KVA	0.00									1.25 1.0 1.0			DEMAND FACTOR
VOLTAGE	240									0.00 0.00 0.00			DEMAND KVA
DEMAND AMPS	0.00												

GENERAL NOTE:

EXISTING PANEL BOARD SCHEDULES SHOWN ARE BASED ON OUR SITE VISIT. DEMOLITION SCOPE OF WORK WILL AFFECT THE FINAL CIRCUITS THAT WILL BE LEFT. PROVIDE NEW PANEL SCHEDULE DIRECTORIES DEPICTING THESE LOADS.

EXISTING PANEL A

240/120 VOLTS 3 PHASE 4 WIRE 200 AMPS M.C.B. M.L.O. SINGLE PANEL
 22 KAIC DOUBLE PANEL
 TYPE: SQUARE D NEMA 1 SURFACE
 NQOD RECESSED

LOAD	KVA			PHASE						KVA			LOAD
	OTHER	REC	LTG	BK	PL	A	C	PL	BK	LTG	REC	OTHER	
AHU-1				2/60	1	X		2	2/60				AHU-4
COPIER				2/30	5		X	6	2/60				A/C
HAND DRYER				1/20	9			10	2/60				A/C
REF				1/20	11		X	12	---				---
WATER COOLER				1/20	13	X		14	1/20				HAND DRYER
MENS DRYER				1/20	15			16	1/20				REC
SEC PANEL				1/20	17		X	18	1/20				WOMENS DRYER
VENDING MACHINE				1/20	19	X		20	1/20				HAND DRYER
RECEPTACLE GENERAL				1/20	21			22	1/20				FRONT DESK RECP
NEW OFFICE AREA RECEP				1/20	23		X	24	1/20				MANAGERS OFFICE RECP
NEW OFFICE AREA RECEP				1/20	25	X		26	1/20				ROOM 140
NEW COMP RM				1/20	27			28	1/20				ROOM 140
NEW COMP RM				1/20	29		X	30	---				SPACE
SUB TOTALS	0.00	0.00	0.00							0.00	0.00	0.00	SUB TOTALS
TOTAL CONN. KVA	0.00									0.00 0.00 0.00			CONNECTED KVA
TOTAL DEMAND KVA	0.00									1.25 1.0 1.0			DEMAND FACTOR
VOLTAGE	240									0.00 0.00 0.00			DEMAND KVA
DEMAND AMPS	0.00												



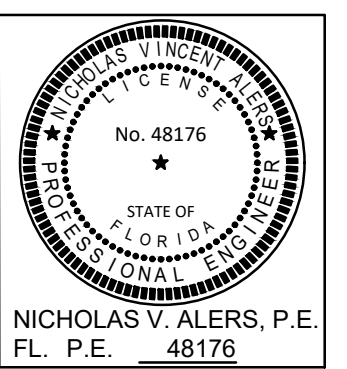
Architecture
 Planning
 Programming
RLArchitecture
 AA0000005
 301 S SWEETWATER COVE BLVD.
 LONGWOOD, FL 32779
 (407) 756-7833



ALERS ENGINEERING GROUP, LLC
 C.A. #26095
 12807 CAYWOOD FORD RD
 WINDERMERE, FL 34786
 (407) 721-1166
 ALERS1399@GMAIL.COM

THIS ITEM HAS BEEN ELECTRONICALLY SEALED BY NICHOLAS V. ALERS, P.E., STATE OF FLORIDA LICENSE NO. 48176 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND VALID UNLESS THEY BE VERIFIED BY ANY ELECTRONIC COPIES.

ORANGE COUNTY LIBRARY SYSTEM
 RESTROOM REFURBISHMENT
 SOUTHEAST BRANCH
 5675 S SEMORAN BLVD., ORLANDO, FL.
 CONTRACT DOCUMENTS

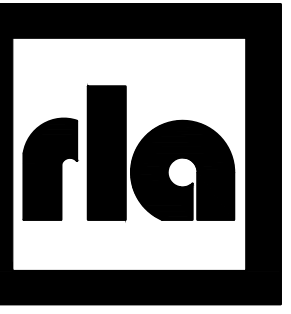


RLA PROJ. NO: T0420
 DRAWN BY: IL
 CHECKED BY: NVA
 DATE: 03/22/19

REVISED

DRAWING TITLE:

SOUTHEAST
 ELECTRICAL
 SPECIFICATIONS
 PANELS



ARCHITECTURE

Architecture
Planning
Programming

RLArchitecture

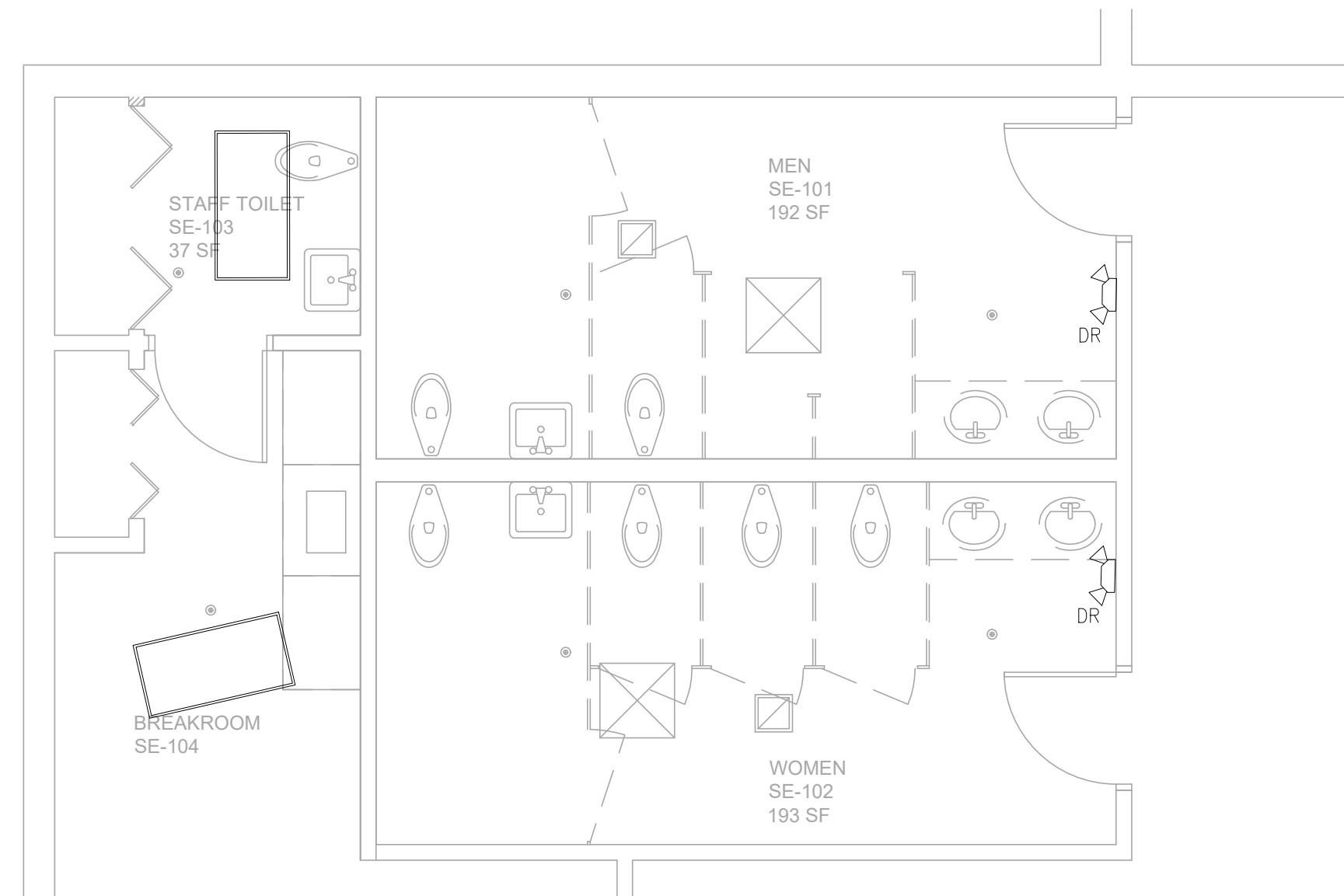
AA0602035
301 S SWEETWATER COVE BLVD.
LONGWOOD, FL 32779
(407) 756-7633



ALERS ENGINEERING GROUP, LLC

C.A. #26095
19877 CAYWOOD POND DRIVE
WINDERMERE, FLORIDA 34786
407.721.1166
ALERS1399@GMAIL.COM

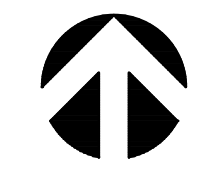
THIS ITEM HAS BEEN
ELECTRONICALLY SEALED BY
NICHOLAS V. ALERS, P.E.
STATE OF FLORIDA LICENSE
NO. 48176 USING A DIGITAL
SIGNATURE.
PRINTED COPIES OF THIS
DOCUMENT ARE NOT
CONSIDERED SIGNED AND
SEALED AND THE
SIGNATURE MUST BE
VERIFIED ON ANY
ELECTRONIC COPIES.



DEMOLITION PLAN KEY NOTES:

DR= DISCONNECT AND REMOVE. PULL BACK WIRING TO SOURCE AND REMOVE IN ITS ENTIRETY INCLUDING THE CONDUIT. FIELD VERIFY CIRCUIT FROM EXISTING PANELS. SEE SHEET E100

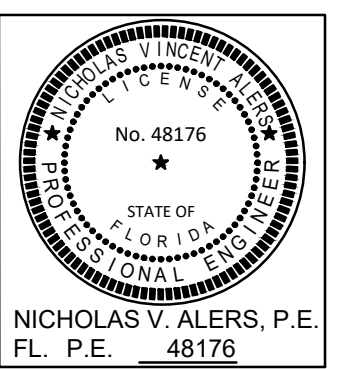
E= EXISTING TO REMAIN



SOUTHEAST BRANCH LIBRARY DEMO PLAN

1/4" = 1'-0"
0 2' 4' 8'

ORANGE COUNTY LIBRARY SYSTEM
RESTROOM REFURBISHMENT
SOUTHEAST BRANCH
5575 S SEMORAN BLVD., ORLANDO, FL.
CONTRACT DOCUMENTS

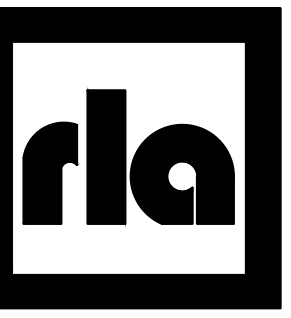


RLA PROJ. NO: 10420
DRAWN BY: IL
CHECKED BY: NVA
DATE: 03/22/19

REVISED

DRAWING TITLE:
SOUTHEAST
DEMO PLAN

E101



ARCHITECTURE

Architecture
Planning
Programming

RLArchitecture

AA0602035
301 S SWEETWATER COVE BLVD.
LONGWOOD, FL 32779
(407) 756-7633

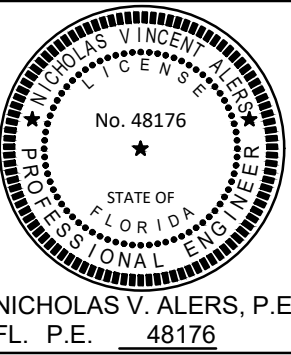


ALERS ENGINEERING GROUP, LLC

C.A. #26095
NICHOLAS V. ALERS, P.E., FL. 48176
19877 CAYWOOD POND DRIVE
WINDERMERE, FLORIDA 34786
407.721.1166
ALERS1399@GMAIL.COM

THIS ITEM HAS BEEN ELECTRONICALLY SEALED BY NICHOLAS V. ALERS, P.E., STATE OF FLORIDA LICENSE NO. 48176 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ORANGE COUNTY LIBRARY SYSTEM
RESTROOM REFURBISHMENT
SOUTHEAST BRANCH
5675 S SEMORAN BLVD., ORLANDO, FL.
CONTRACT DOCUMENTS



RLA PROJ. NO: 10420

DRAWN BY: IL

CHECKED BY: NVA

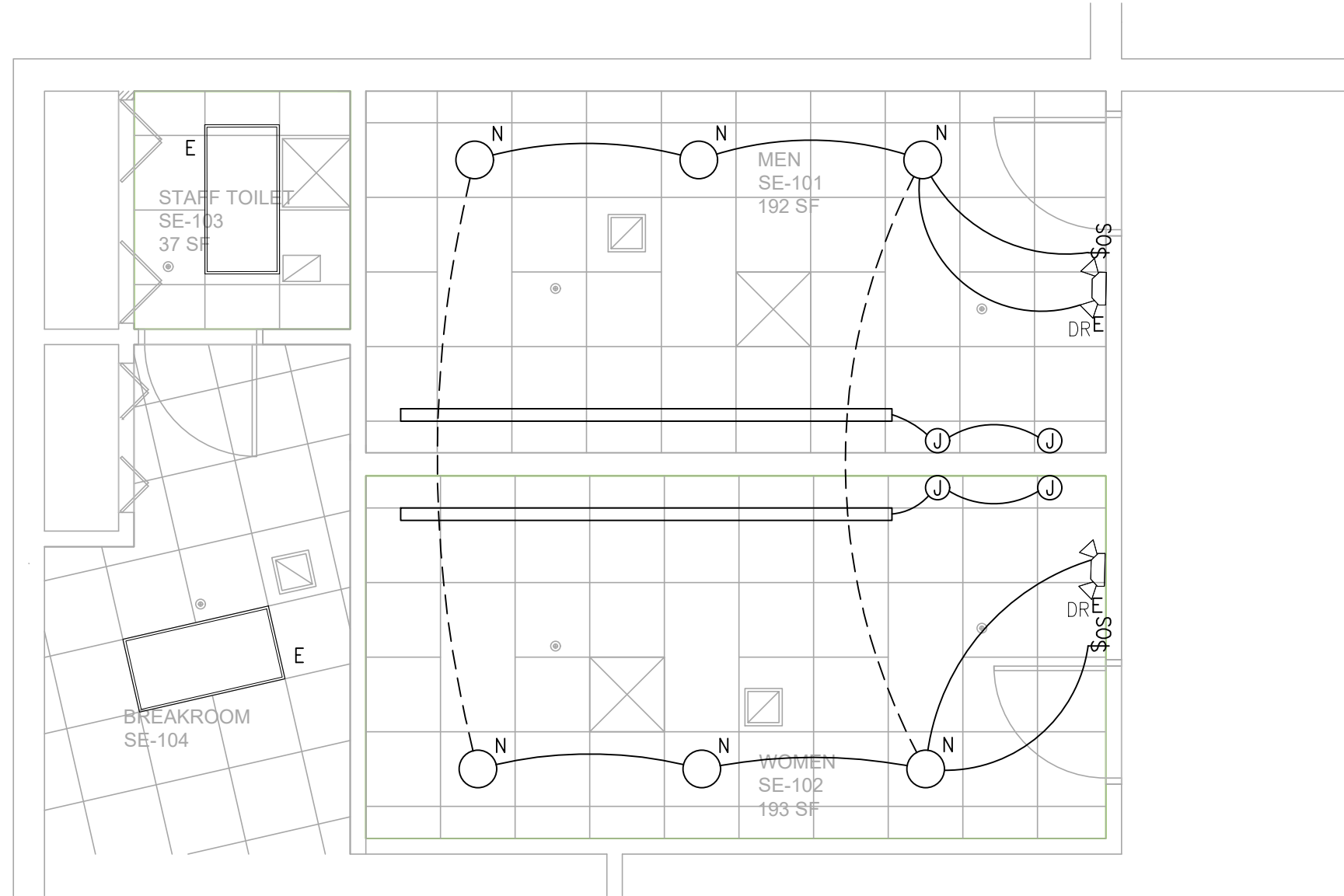
DATE: 03/22/19

REVISED

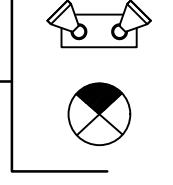
DRAWING TITLE:

SOUTHEAST LIGHTING PLAN

E102

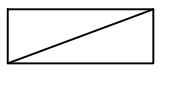


PROVIDE HOT LEG OF CIRCUIT AHEAD OF SWITCH



LIGHTING FIXTURE SPECIFICATIONS:

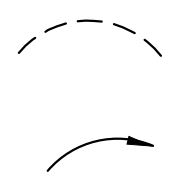
LED EMERGENCY LIGHTING UNIT W/NICAD BATTERY WHITE. 12W LED LITHONA ELM2 LED 120V.
120V, 10W, LED FACE EXIT SIGN W/BATTERY BACK-UP, BEGHELLI UNO SA-LR-2-W



DAYLED TROFFER 2X4 DAY-BRITE RECESSED-2TLG56L840-4-21-UNV-DIM

\$ \$2 \$3 \$4 0 \$p \$OC

1-POLE SWITCH, 2-POLE SWITCH, 3-WAY, 4-WAY, DIMMER SWITCH (1000W MIN.), P INDICATES PILOT LIGHT - 48" A.F.F., SWITCH-OCCUPANCY SENSOR TYPE



LIGHTING BRANCH CIRCUIT BETWEEN ROOMS. SWITCHED LEG AND LIGHTING CIRCUIT WITHIN A ROOM SHOWN AS SOLID LINE.

BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS, SHORT SLASH IS NEUTRAL, LONG SLASH IS HOT (GROUND WIRE NOT SHOWN). LONG SLASH WITH FLAG INDICATES AN EXTRA GROUND FOR ISOLATED GROUND BRANCH CIRCUITS. 2 #12, #12G MINIMUM (UNLESS OTHERWISE NOTED OR MARKED). QUANTITY OF ARROWS INDICATES QUANTITY OF HOMERUNS TO PANELBOARD.

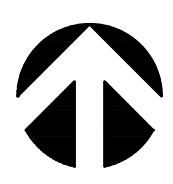
LETTER NEXT TO DEVICE INDICATES THE FOLLOWING SCOPE:

N = NEW DEVICE. PROVIDE (2)#12, (1)#12 GND IN 3/4" EMT CONDUIT TO CIRCUIT.

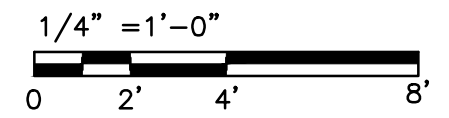
E = EXISTING TO REMAIN IN SERVICE

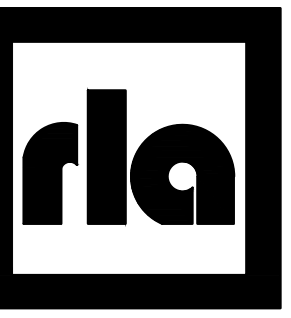
GENERAL NOTES:

- 1. CONNECT NEW LIGHTING TO EXISTING CIRCUIT WITH (2)#12, (1)#12 GND IN 3/4" EMT C. VERIFY IN FIELD CIRCUIT. SEE SHEET E100



SOUTHEAST BRANCH LIBRARY NEW LIGHTING PLAN





ARCHITECTURE

Architecture
Planning
Programming

RLArchitecture

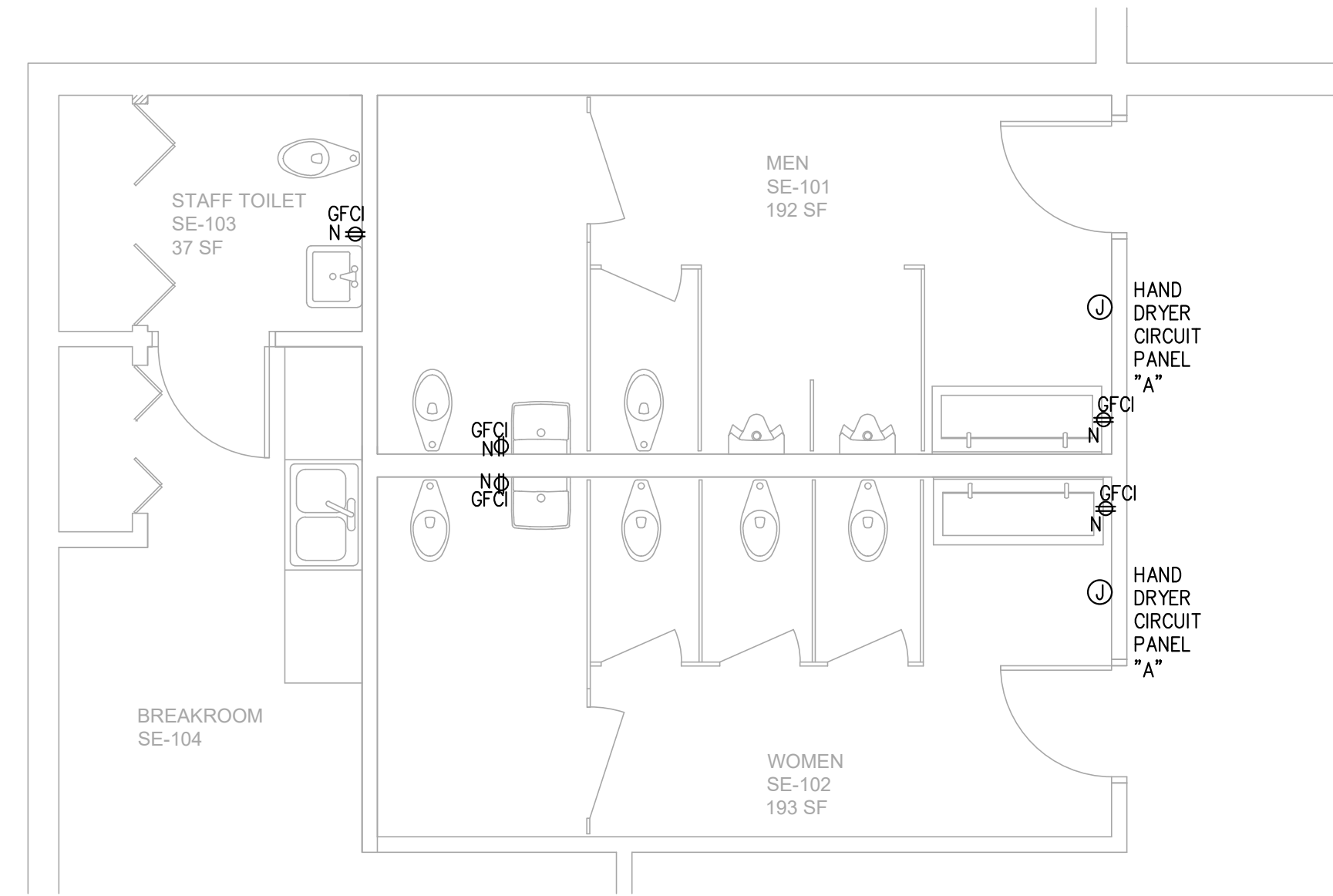
301 S SWEETWATER COVE BLVD.
LONGWOOD, FL 32779
(407) 756-7633



ALERS ENGINEERING GROUP, LLC

C.A. #26095
NICHOLAS V. ALERS, P.E., FL. 48176
19877 CAYWOOD POND DRIVE
WINDERMERE, FLORIDA 34786
407.721.1166
ALERS1399@GMAIL.COM

THIS ITEM HAS BEEN
ELECTRONICALLY SEALED BY
NICHOLAS V. ALERS, P.E.,
REGISTERED ENGINEER
STATE OF FLORIDA LICENSE
NO. 48176. LONG & DIGITAL
SIGNATURE.
PRINTED COPIES OF THIS
DOCUMENT ARE NOT
CONSIDERED SIGNED AND
SEALED AND THE
SIGNATURE MUST BE
VERIFIED ON ANY
ELECTRONIC COPIES.



ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
Φ_{GF} Φ_{AF} Φ_{IG} Φ_{WP} Φ_D Φ_{DC} Φ_{WS}	DUPLEX RECEPTACLE AT 18", DUPLEX RECEPTACLE AT 44"A.F.F., GROUND FAULT CIRCUIT INTERRUPTER TYPE, ARC FAULT CIRCUIT INTERRUPTER TYPE, ORANGE ISOLATED GROUND TYPE, WEATHERPROOF TYPE, DEDICATED DUPLEX RECEPTACLE, TWIST LOCK AND DROP CORD, WINDOW SIGN.
\square	FLOOR MOUNTED RECEPTACLE
--- ---	120/208 OR 120/240V PANELBOARD - FLUSH MOUNTED, SURFACE MOUNTED
\square	DISCONNECT SWITCH
\oplus	QUAD RECEPTACLE AT 18" 20A,120V.
\odot	SPECIAL RECEPTACLE - 18"A.F.F. NEMA TYPE SHOWN ON PLANS.

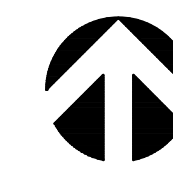
LETTER NEXT TO DEVICE INDICATES THE FOLLOWING SCOPE:

N = NEW DEVICE, PROVIDE (2)#12, (1)#12 GND IN 3/4" EMT CONDUIT TO CIRCUIT.

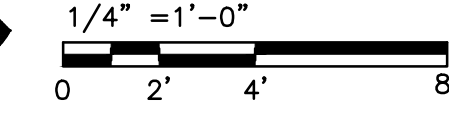
E = EXISTING TO REMAIN IN SERVICE

GENERAL NOTES:

- CONNECT NEW RECEPTACLES TO EXISTING CIRCUIT WITH (2)#12, (1)#12 GND IN 3/4" EMT C. VERIFY IN FIELD CIRCUIT. SEE SHEET E100



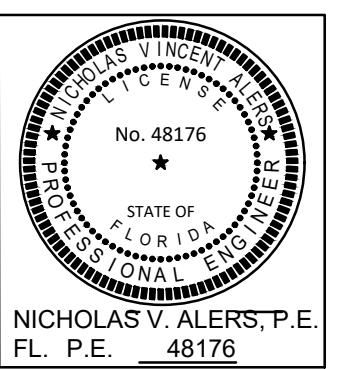
SOUTHEAST BRANCH LIBRARY POWER PLAN



ORANGE COUNTY LIBRARY SYSTEM
RESTROOM REFURBISHMENT

SOUTHEAST BRANCH
5675 S SEMORAN BLVD., ORLANDO, FL.

CONTRACT DOCUMENTS



RLA PROJ. NO:	10420
DRAWN BY:	IL
CHECKED BY:	NVA
DATE	03/22/19

REVISED

DRAWING TITLE:

SOUTHEAST
POWER
PLAN

E103



ARCHITECTURE

Architecture
Planning
Programming
RLArchitecture

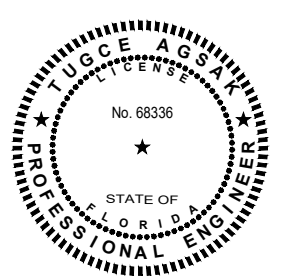
AA26002035
301 S SWEETWATER COVE BLVD.
LONGWOOD, FL 32778
(407) 756-7833



TAGS ENGINEERING

MEPP Engineering, Energy Modeling, Sustainability Consulting
Certificate of Accreditation Number: 1118
Address: 1621 Kate Ct., Sanford, FL 32771
Tel: (407) 463-9566 Website: www.tagseng.com

ORANGE COUNTY LIBRARY SYSTEM
RESTROOM REFURBISHMENT
SOUTHEAST BRANCH
5575 S SEMORAN BLVD., ORLANDO, FL.
CONTRACT DOCUMENTS



RLA PROJ. NO: 10420
DRAWN BY: DG
CHECKED BY: TA
DATE: 03/22/19

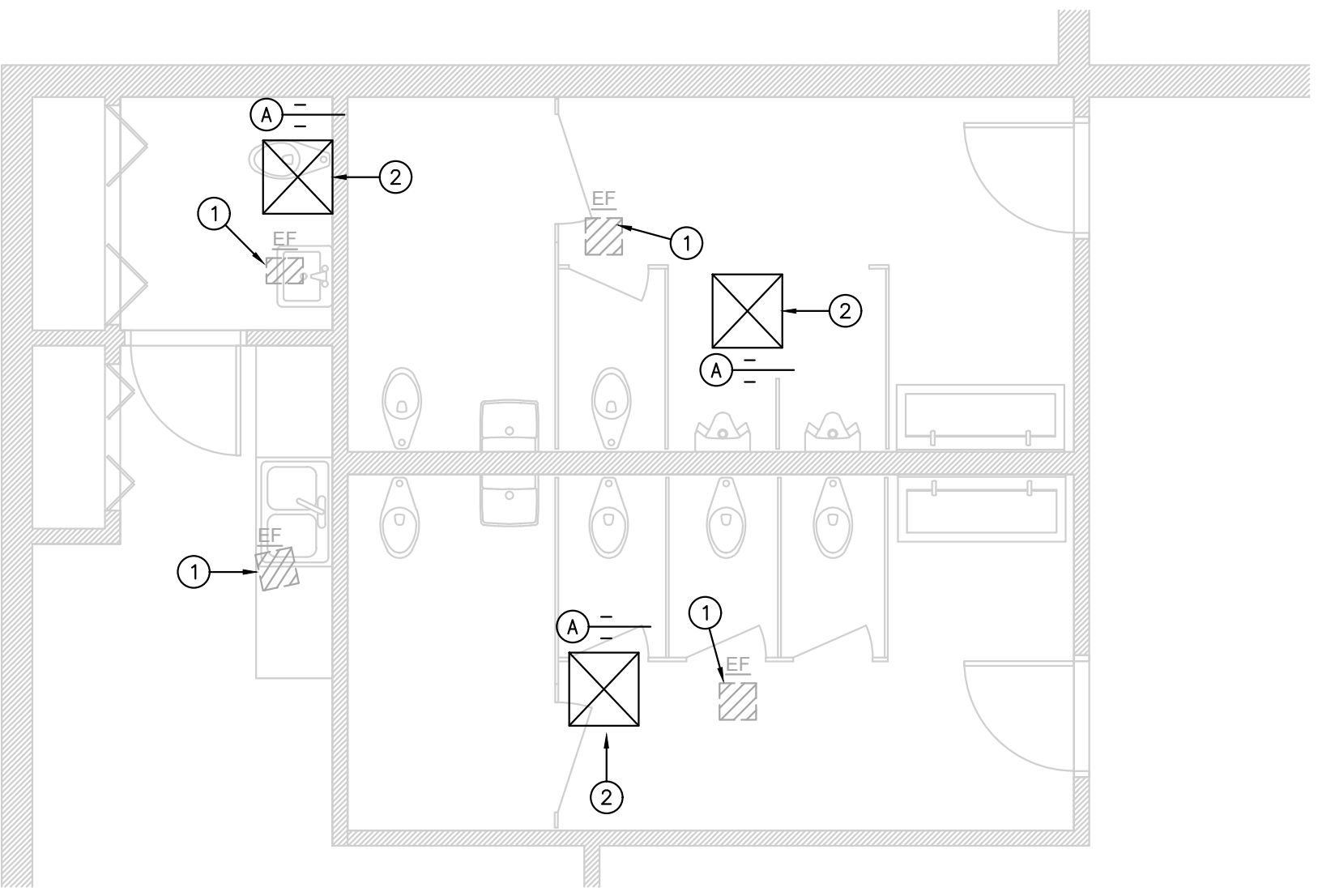
REVISED

DRAWING TITLE:
SE
MECHANICAL
FLOOR PLAN

M2.01

MECHANICAL KEY NOTES:

- ① EXISTING EQUIPMENT TO REMAIN IN NEW CEILING GRID. REPLACE GRILLE ONLY IN KIND. CONTRACTOR SHALL CONFIRM THE EQUIPMENT IS IN GOOD OPERATING CONDITION.
- ② REPLACE ALL EXISTING AIR DEVICES WITH NEW. USE EXISTING TAPS AND NECK SIZES.



SE MECHANICAL FLOOR PLAN

1/4" = 1'-0"
0 2 4 6

TYPE	DESCRIPTION	MANUFACTURER AND MODEL NO.	SPECIFICATIONS
A	SUPPLY DIFFUSER	PRICE PDS	24"x24" SQUARE PERFORATED DIFFUSER, 4 WAY PATTERN, LAY-IN/SURFACE MOUNTED SUPPLY DIFFUSER, ALUMINUM CONSTRUCTION, FINISH TO MATCH CEILING.

KEY: TYPE CFM
NECK SIZE AND DUCT RUN-OUT SIZE, UNLESS NOTED OTHERWISE.

NOTE: REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING, DIFFUSER BORDER TYPE, AND FINAL LOCATION OF AIR DEVICES.

2 AIR DEVICE SCHEDULE
M NOT TO SCALE

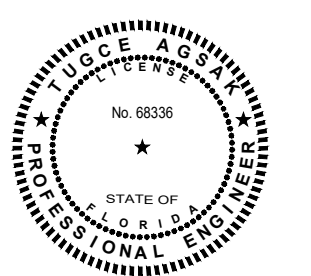


ARCHITECTURE
 Architecture
 Planning
 Programming
RLArchitecture
 AA26002035
 301 S SWEETWATER COVE BLVD.
 LONGWOOD, FL 32778
 (407) 756-7833



TAGS ENGINEERING
 MEPFP Engineering, Energy Modeling, Sustainability Consulting
 Certificate of Accreditation Number: 1116
 Address: 1621 Kate Ct., Sanford, FL 32771
 Tel: (407) 845-9566 Website: www.tagseng.com

**ORANGE COUNTY LIBRARY SYSTEM
 RESTROOM REFURBISHMENT**
 SOUTHEAST BRANCH
 5575 S SEMORAN BLVD., ORLANDO, FL.
 CONTRACT DOCUMENTS



RLA PROJ. NO: 10420
 DRAWN BY: DG
 CHECKED BY: TA
 DATE: 03/22/19

REVISED

DRAWING TITLE:
**SE
 PLUMBING
 FLOOR PLANS,
 NOTES AND
 SCHEDULES**

P2.01

PLUMBING KEY NOTES:

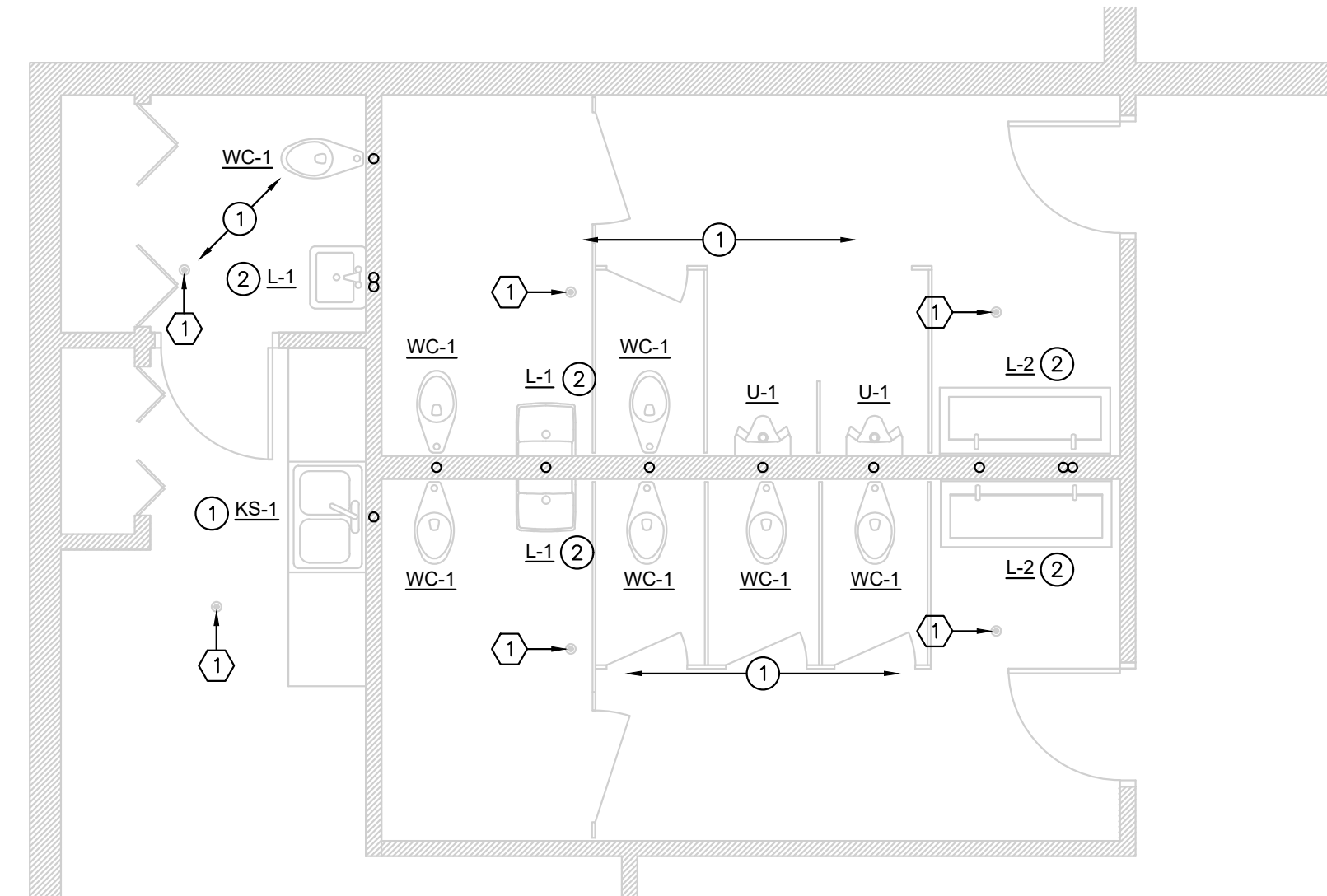
- ① EXISTING PLUMBING FIXTURES TO BE REMOVED AND RETURNED TO OWNER. UNUSED SANITARY, VENT AND WATER PIPING SHALL BE CAPPED BELOW GRADE, ABOVE CEILING AND/OR BEHIND WALL IN ACCORDANCE WITH CODE. RECONNECT FIXTURES TO EXISTING PIPING IN WALL. FLOOR DRAINS TO REMAIN IN PLACE.
- ② PROVIDE TEMPERATURE LIMITING DEVICES IN ACCORDANCE WITH FBPC-2017 SECTION 416.5 FOR LAVATORIES. MIXING VALVE SHALL BE WATTS LFMMV OR APPROVED EQUAL. TEMPERATURE SHALL NOT EXCEED 104°F.

FIRE PROTECTION KEY NOTES:

- ① EXISTING SPRINKLER HEADS AND PIPING TO REMAIN.

PLUMBING GENERAL NOTES:

1. COORDINATE EXACT LOCATION OF ALL PLUMBING SYSTEMS AND DEVICES IN CABINETS AND AT FIXTURE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
2. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AS ENCOUNTERED IN FIELD.
3. ALL PLUMBING INSTALLATION AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND APPLICABLE STANDARDS, REGULATIONS AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
4. SANITARY DRAINAGE PIPING SHALL SLOPE NO LESS THAN 1/4" FALL PER FOOT FOR PIPES SMALLER THAN 3" AND 1/8" FALL PER FOOT FOR PIPES 3" AND LARGER.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS, AND HANDICAPPED REQUIREMENTS.
6. ALL WORK AND EQUIPMENT SHALL MEET THE REQUIREMENT OF THE MOST RECENTLY REVISED VERSION OF ALL APPLICABLE LAWS, RULES, REGULATION, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES, WHETHER INDICATED ON THE DRAWINGS OR NOT.
7. ADHERE TO THE DRAWINGS WHEN REQUIREMENTS ARE STRICTER THAN CODE REQUIREMENTS AND ARE PERMITTED UNDER THE CODE.
8. REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWINGS AS REQUIRED BY THE ABOVE AUTHORITIES TO THE ARCHITECT AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.
9. THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ARCHITECT IN ALL CASES OF DOUBT AS TO THE WORK INTENDED, OR IF ADDITIONAL EXPLANATION IS NEEDED.
10. PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS.
11. PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED COMPLETE WITH TRIM AND ALL OTHER APPURTENANCES REQUIRED TO CONNECT TO ROUGH-IN PIPING AT FLOORS AND WALLS UNLESS OTHERWISE SPECIFIED.
12. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT THAT ARE NOT REUSED SHALL BE RETURNED TO THE OWNER.
13. ALL ABOVE FLOOR DOMESTIC WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER CONFORMING TO ASTM B88.
14. ALL DRAINAGE AND VENT PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELDED JOINTS.
15. **DOMESTIC WATER PIPING:**
 - A. PROVIDE VALVE IN BRANCH LINES TO EACH PIECE OF WATER CONSUMING EQUIPMENT OR FIXTURE. STOP VALVES SATISFY THIS REQUIREMENT.
 - B. CLEANING WATER PIPING; CLEAN ALL WATER PIPING. INCLUDE SURGE TANKS, STORAGE VESSELS, AND ALL COMPONENTS AND DEVICES IN THE PIPING SYSTEM. FLUSH THOROUGHLY. STERILIZE WITH CHLORINE SOLUTION FOR MINIMUM 24 HOURS, THEN FLUSH CLEAN. STRENGTH OF CHLORINE SOLUTION AND METHODS MUST COMPLY WITH CITY CODE AND HEALTH AUTHORITIES. AT COMPLETION, THERE MUST BE NO DISCERNIBLE ODOR. POST WARNINGS UNTIL STERILIZATION IS COMPLETE.
16. **DOMESTIC HOT WATER PIPING SYSTEMS:**
 - A. PIPE: MATERIALS SHALL BE 1" THICK FACTORY MOLDED FIBERGLASS PIPE COVERING, DENSITY NOT LESS THAN 3 LBS PER CU.FT., CONDUCTIVITY (K) NOT HIGHER THAN .25 AT 100°F MEAN TEMPERATURE DIFFERENCE, WITH FACTORY ATTACHED WHITE AS-J JACKET.
 - B. FITTING AND OTHER COMPONENTS: MATERIALS SHALL BE PRE-MOLDED OR JOB FORMED COVER OF SAME MATERIAL AS PIPE COVERING. FINISHED INSULATION THICKNESS SHALL NOT BE LESS THAN ADJACENT PIPE.



SE PLUMBING FLOOR PLAN
 1/4" = 1'-0"
 0 2' 4' 8'

PLUMBING FIXTURE SCHEDULE

P-NO.	FIXTURE DESCRIPTION	MOUNTING HEIGHT	CONNECTION SIZES				MANUFACTURER	MODEL #	SPECIFICATIONS		NOTES
			C.W.	H.W.	WASTE	VENT			FLUSH VALVE	FAUCET	
L-1	WHITE LAVATORY SINK & FAUCET, WALL MOUNT	SEE ARCH FOR MOUNTING HEIGHT	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD	LUCERNE 0356.041	---	CHICAGO FAUCETS 116.201.AB.1	WALL MOUNT, NEW VALVE STOPS AND TRAP WRAP, WHITE VITREOUS CHINA WITH FRONT OVERFLOW, SINGLE HOLE, WHITE FINISH. FAUCET - CHICAGO FAUCETS #116.201.AB.1, ELECTRONIC SENSOR FAUCETS, DECK MOUNT, SINGLE HOLE HYTRONIC, DUAL BEAM INFRARED SENSOR, 0.5 GPM VANDAL PROOF NON-AERATING SPRAY, BATTERY POWERED. PROVIDE W/ TEMPERATURE MIXING VALVE.
L-2	60"x22"x5" WALL MOUNTED DECK LAVATORY SYSTEM W/ TWO DECK MOUNTED FAUCETS	SEE ARCH FOR MOUNTING HEIGHT	1/2"	1/2"	2"	1-1/2"	B. SHEA SURFACES	CUSTOM	---	CHICAGO FAUCETS 116.201.AB.1	SINK - B. SHEA SURFACES #CUSTOM, DECK MOUNTED, MONOLITHIC CONSOLE, TWO STATION LAVATORY, PROVIDE W/ SINK CONNECTOR, MOUNTING HARDWARE PROVIDED BY OTHERS. FAUCET - CHICAGO FAUCETS #116.201.AB.1, ELECTRONIC SENSOR FAUCETS, DECK MOUNT, SINGLE HOLE HYTRONIC, DUAL BEAM INFRARED SENSOR, 0.5 GPM VANDAL PROOF NON-AERATING SPRAY, BATTERY OPERATED.
KS-1	33"x22"x6" DOUBLE BOWL, KITCHEN SINK, TOP MOUNT	SEE ARCH FOR MOUNTING HEIGHT	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD	COLONY 22DB.6332283S.075	---	AMERICAN STANDARD 7074000.075	SINK - AMERICAN STANDARD #COLONY 22DB.6332283S.075, 50/50 DOUBLE BOWL SINK, 3-HOLE, 20 GAUGE STAINLESS STEEL, ADA COMPLIANT. FAUCET - AMERICAN STANDARD #7074000.075, 1.5 GPM, METAL DECK AND HANDLE.
WC-1	WATER CLOSET	REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT	1/2"	-	4"	2"	ZURN	Z5615-BWL	ZURN ZZTR6200EV	---	TOILET - ZURN #Z5615-BWL, FLOOR MOUNT, VITREOUS CHINA, SIPHON JET FLUSHING, ELONGATED FRONT RIM, 1-1/2" TOP SPUD, ADA COMPLIANT, PROVIDE W/ ZURN #Z5955SSELSTS SEAT. FLUSH VALVE - ZURN #ZZTR6200EV, 1.28 GPF, CHROME PLATED, MECHANICAL MANUAL OVERRIDE BUTTON, BATTERY OPERATED.
U-1	URINAL WALL HUNG 0.5 GPF	REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT	3/4"	-	3"	2"	ZURN	Z5755-U	ZURN ZZTR6203JULF	---	URINAL - ZURN #Z5755-U, WALL MOUNT, VITREOUS CHINA, INTEGRAL TRAP, 3/4" TOP CONNECTION SPUD, FLUSH VALVE - ZURN #ZZTR6203JULF, 0.125 GPF, CHROME PLATED, MECHANICAL MANUAL OVERRIDE BUTTON, BATTERY POWERED.