
SCHOOL DISTRICT OF INDIAN RIVER COUNTY

PELICAN ISLAND ELEMENTARY SCHOOL

SINGLE POINT OF ENTRY RENOVATION

1355 SCHUMANN DR., SEBASTIAN, FL 32958



S + A Project No. 18033

ARCHITECT

SONG + ASSOCIATES, INC.
1545 CENTREPARK DRIVE NORTH
WEST PALM BEACH, FLORIDA 33401

TEL: 561-655-2423
FAX: 561-655-1482

STRUCTURAL

ANDREW MORGAN SERVICES
513 US 1, SUITE 109
NORTH PALM BEACH, FL 33408

TEL: 561-881-8999

MEP

OCI ASSOCIATES
181 MELODY LANE, SUITE 107
FORT PIERCE, FL 34950

TEL: 772-466-1165

SCHOOL DISTRICT OF INDIAN RIVER COUNTY

BOARD MEMBERS

SHAWN FROST
DISTRICT 1

DALE SIMCHICK
DISTRICT 2

LAURA ZORC
DISTRICT 3

CHARLES SEARCY
DISTRICT 4

TIFFANY JUSTICE
DISTRICT 5

DR. MARK J. RENDELL
SUPERINTENDENT



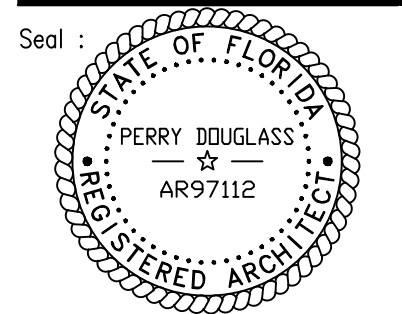
Song + Associates

Architecture • Planning • Interior Design

CONSTRUCTION DOCUMENTS

SEPTEMBER 19, 2018

TO THE BEST OF MY KNOWLEDGE,
THESE DRAWINGS AND THE PROJECT
MANUAL ARE COMPLETE AND
COMPLY WITH THE FLORIDA
BUILDING CODE, THE FLORIDA FIRE
PREVENTION CODE, AND OTHER
APPLICABLE CODES AND
REGULATIONS, AS DETERMINED BY
THE LOCAL AUTHORITY IN
ACCORDANCE WITH FBC CH. 105 AND
633 FLORIDA STATUTES.

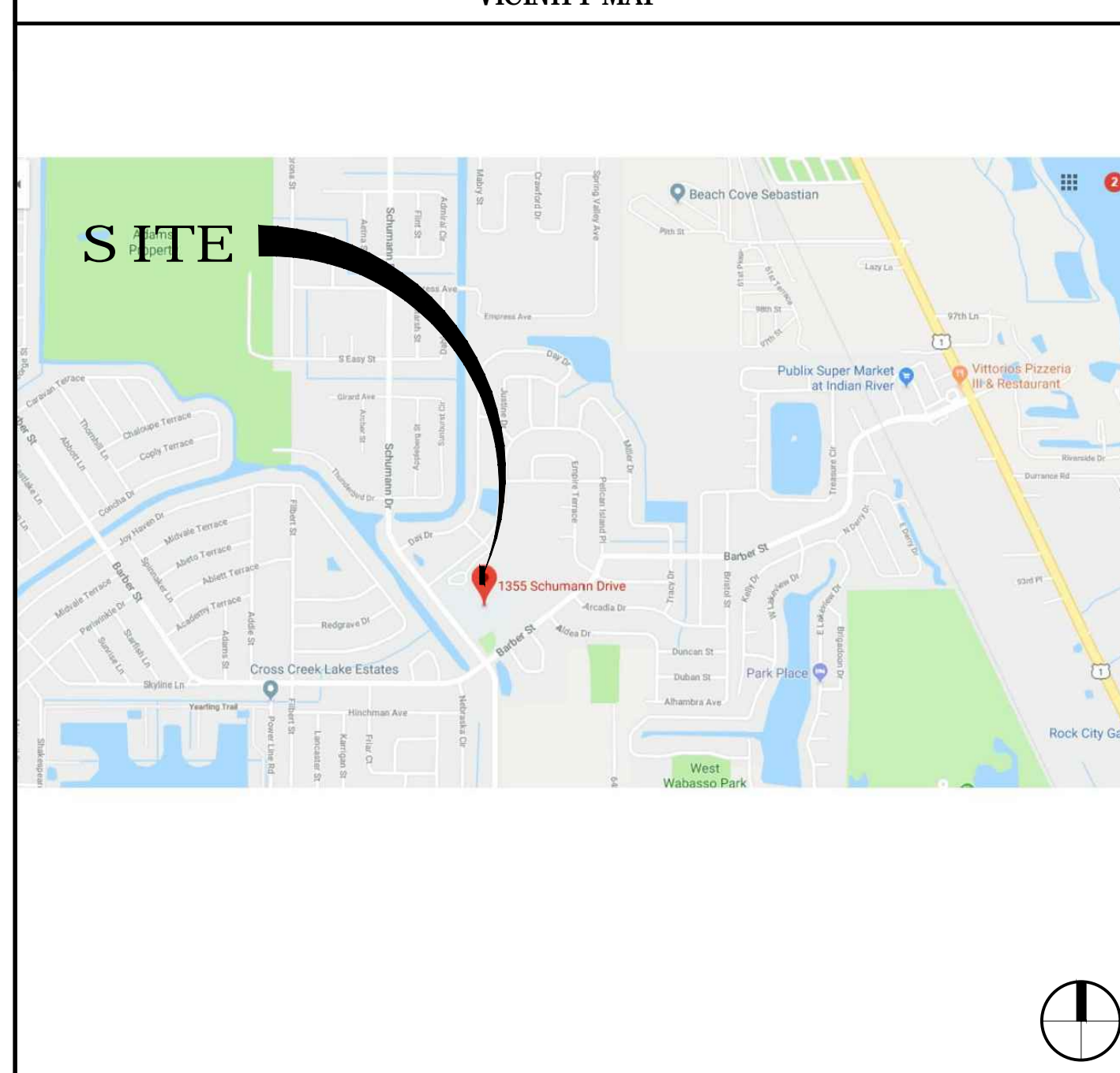
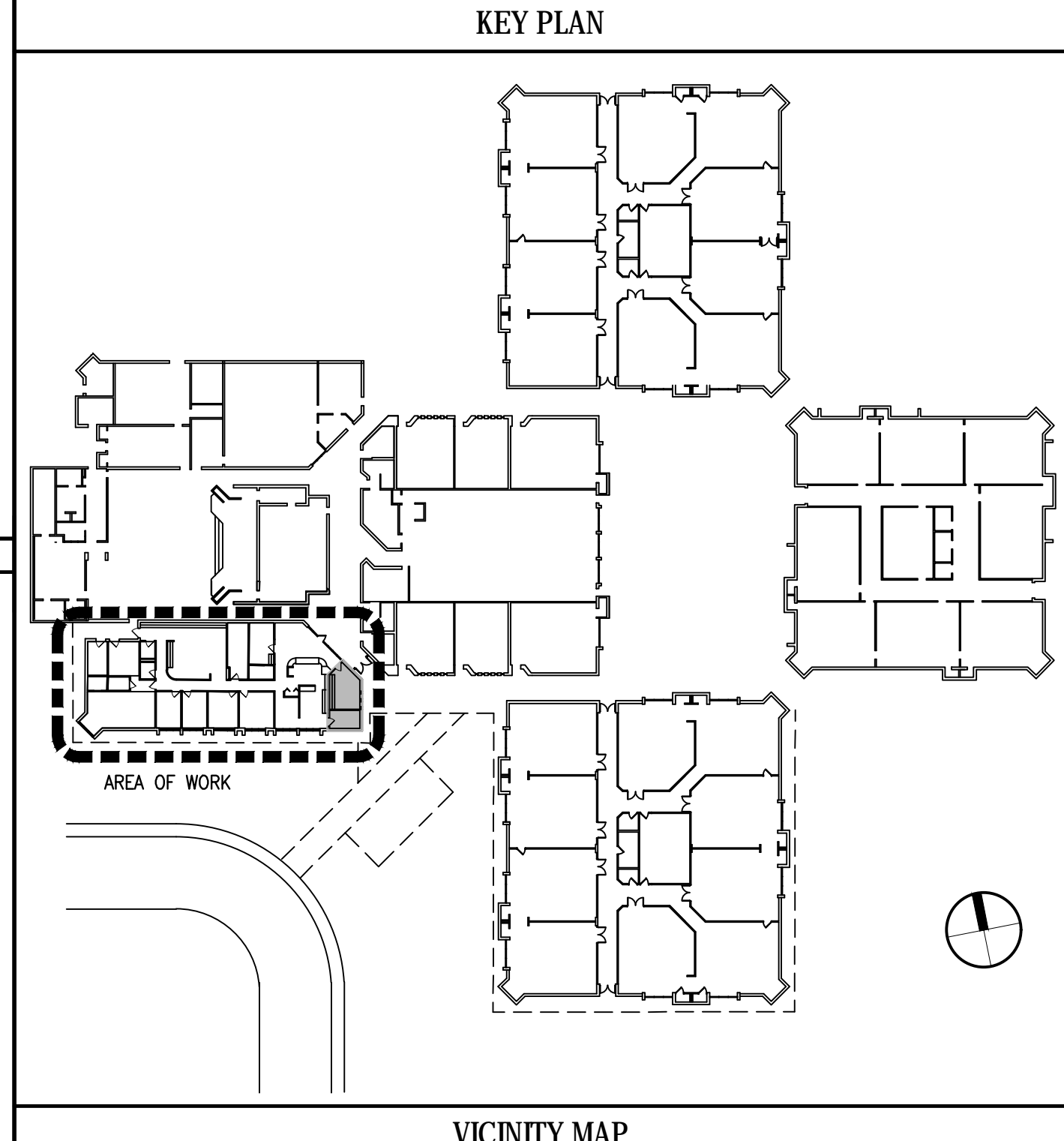


Seal :
Name : PERRY DOUGLASS
License # : AR 97112

MATERIAL INDICATION		
ELEVATION	SECTION	PLAN
		EARTH FILL MATERIAL
		POROUS FILL (STONE, GRAVEL, ETC.)
		CAST IN PLACE CONCRETE
		PRECAST CONCRETE CAST STONE
		BRICK
		CONCRETE MASONRY UNIT (LARGE SCALE)
		CONCRETE MASONRY UNIT (SMALL SCALE)
		STEEL (LARGE SCALE)
		STEEL (SMALL SCALE)
		ALUMINUM (LARGE SCALE)
		ALUMINUM (SMALL SCALE)
		STONE VENEER
		METAL (SMALL SCALE)
		ROUGH WOOD (CONTINUOUS)
		ROUGH WOOD (INTERMITTENT BLOCKING)
		WOOD (FINISHED)
		PLYWOOD (LARGE SCALE)
		PLYWOOD (SMALL SCALE)
		PARTICLE BOARD
		INSULATION (BATT)
		RIGID INSULATION (ROOF OR WALL)
		CERAMIC TILE
		PLASTER, SAND, CEMENT, GROUT, GYPSUM BOARD
		MARBLE
		GLASS

ARCHITECTURAL ABBREVIATIONS		
	PLUS OR MINUS	
	PLATE OR PROPERTY LINE	
	SQUARE	
	CENTER TO CENTER	
	POUND OR NUMBER	
AC	AIR CONDITIONING	INT
ACC	ACCESSIBLE	INT
ACT	ACOUSTICAL CEILING TILE	JB
AD	AREA DRAIN	JT
ADJ	ADJUSTABLE	JO
AFF	ABOVE FINISH FLOOR	MAX
A.L.	ARC LENGTH	MIN
ALUM	ALUMINUM	MISC
BD	BOARD	MO
BLDG	BUILDING	MTL
BLK	BLOCK	NIC
BM	BEAM	NTS
BOB	BOTTOM OF BEAM	OH
BUR	BUILT-UP ROOF	OC
CIP	CAST IN PLACE	OD
CJ	CONTROL JOINT	OPP
CL	CHAIN LINK	PLAS
CLR	CLEAR	PLYWD
CLG	CEILING	POB
CMU	CONCRETE MASONRY UNIT	PREFAB
COL	COLUMN	PSF
CONC	CONCRETE	PSI
CONT	CONTINUOUS/CONTINUE	PT
D	DEPTH	R
DWG	DRAWING	RA
EA	EACH	RAD/ R
EC	EASED CORNER	RD
EJ	EXPANSION JOINT	REINF
ELEV	ELEVATION/ ELEVATOR	REQ'D
EQ	EQUAL	RM
EQUIP	EQUIPMENT	SCHED
EXP	EXPANSION	SHT
EWC	ELECTRIC WATER COOLER	SIM
EXT	EXTERIOR	SP
FD	FLOOR DRAIN	SPEC(S)
FE	FIRE EXTINGUISHER	STD
FEC	FIRE EXTINGUISHER CABINET	STL
FDN	FOUNDATION	SUSP
FHC	FIRE HOSE CABINET	SW
FIN	FINISH	T
F.F.	FINISH FLOOR	TOB
FLR	FLOOR	TOC
FT	FEET / FOOT	TOF
GA	GAUGE	TOI
GALV	GALVANIZED	TOM
GEN	GENERAL	TOS
GL	GLASS	TOW
GUM	GLASS UNIT MASONRY	TYP
GWB	GYPSUM WALLBOARD	UNO
GYP	GYPSUM	VERT
H/HT	HEIGHT	VCT
ID	INSIDE DIAMETER	W
IN	INCH / INCHES	W/
INSUL	INSULATION	WD

SYMBOLS AND NOTES		
	ROOM DESIGNATION	ELEVATION DATUM
	ROOM NUMBER	T.O. PARAPET
	ROOM NAME	LOCATION HEIGHT
	DOOR KEY	EXTERIOR ELEVATION KEY
	BUILDING NUMBER	SHEET NUMBER
	DOOR NUMBER	ELEVATION NUMBER
	WINDOW KEY	VIEWPOINT KEY
	WINDOW NUMBER	ELEVATION NUMBER
	WINDOW TYPE REFER TO SHEET XXXX	SHEET NUMBER
	FINISH KEY	VIEWPOINT KEY
	FINISH NUMBER	ELEVATION NUMBER
	CASE KEY	BUILDING SECTION / DETAIL KEY
	CASE NUMBER	SECTION NO.
	CASE NAME	SHEET NO.
	PARTITION TYPE KEY	WALL SECTION/DETAIL KEY
	WALL, PARTITION OR CHASE TYPE DETAIL NUMBER	SHEET NO.
	STUD OR MASONRY THICKNESS, IF DIFFERENT THAN INDICATED IN DETAIL	SECTION NO.
	IF WALL TYPE FOLLOWED WITH AN 'S', WALL IS TO BE PROVIDED WITH INSULATION AS INDICATED IN DETAIL	DETAIL KEY
	WALL HOURLY FIRE RATING	DETAIL NUMBER
	POINT ELEVATION KEY	SHEET NUMBER
	HEIGHT	REVISION DELTA
	NORTH ARROW	DETAIL NO.
		INTERIOR ELEVATIONS KEY
		ELEVATION NUMBER
		SHEET NUMBER



SHEET INDEX				
SHEET NUMBER	SHEET TITLE	ISSUE DATE	REV. #	REV. DATE
GENERAL				
--	COVER SHEET	09/19/18		
G-101	INDEX, ABBREVIATIONS, GENERAL NOTES & VICINITY MAP	09/19/18		
G-102	SPECIFICATIONS	09/19/18		
G-103	SPECIFICATIONS	09/19/18		
G-104	SPECIFICATIONS	09/19/18		
STRUCTURAL				
S-001	STRUCTURAL NOTES	09/19/18		
S-100	STRUCTURAL DETAILS	09/19/18		
ARCHITECTURAL				
D-101	DEMOLITION PLAN	09/19/18		
A-101	FLOOR PLAN	09/19/18		
A-121	REFLECTED CEILING PLAN	09/19/18		
A-301	WALL SECTIONS AND DETAILS	09/19/18		
A-601	DOOR SCHEDULE AND DETAILS	09/19/18		
MEP				
M-100	GENERAL NOTES - HVAC	09/19/18		
M-201	FLOOR PLAN - HVAC	09/19/18		
ED-201	DEMOLITION FLOOR PLAN - ELECTRICAL	09/19/18		
E-100	ELECTRICAL SYMBOLS, LEGENDS, & NOTES	09/19/18		
E-201	FLOOR PLAN - ELECTRICAL	09/19/18		
E-501	DETAILS - ELECTRICAL	09/19/18		

GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ANY INCONSISTENCIES.
- ALL DIMENSIONS FOR NEW WORK ARE TO FACE OF STUDS, FACE OF CMU OR CONC. AND CENTERLINES OF COLUMNS, UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO EXISTING ARE TO FACE OF FINISH UNLESS OTHERWISE INDICATED. DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
- UPON COMPLETION OF THE WORK, PROPERTY AND ADJACENT AREAS SHALL BE LEFT CLEAN AND SATISFACTORY TO THE OWNER AND THE ARCHITECT.
- SCHOOL CAMPUS IS OCCUPIED AND GENERAL CONTRACTOR AND SUBS SHALL TAKE ALL MEANS NECESSARY TO PROVIDE A SAFE AND SECURE CONSTRUCTION BOUNDARY/LIMIT OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING AND FITTING OF ALL WORK IN A NEAT WORKMANLIKE MANNER. PROTECT ALL ADJACENT SURFACES FROM DAMAGE. PATCH AND REPAIR ALL WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL OR BETTER CONDITION. WHERE NEW WORK ADJOINS EXISTING IN THE SAME PLANE, MATCH ADJACENT FINISHES, MATERIALS, TEXTURES, SHEEN, ETC.
- A PRE-CONSTRUCTION COORDINATION MEETING SHALL BE HELD WITH THE CONTRACTOR, OWNER AND ARCHITECT PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A LIST OF ALL SUB-CONTRACTOR'S TO THE ARCHITECT PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
- GENERAL AND ALL SUB-CONTRACTORS, SHALL VISIT THE SITE AND PRECISELY EXAMINE THE EXISTING STRUCTURE, SURFACES, CONDITIONS AND EXTENT OF WORK INVOLVED. AFTER EXAMINATION A DEMOLITION SCHEDULE SHALL BE PREPARED AND SUBMITTED IN WRITING TO THE OWNER AND THE ARCHITECT FOR THEIR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR(S) ARE RESPONSIBLE FOR VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING, AND FOR THE COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS AND FINISHES INDICATED IN THE CONTRACT DOCUMENTS. REFER TO THE NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED, BUT SHOWN ON DEMOLITION PLANS, IF APPLICABLE.
- ALL CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL ORDINANCES.
- EXECUTE ALL DEMOLITION WORK IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ANY EXISTING STRUCTURE. EXTREME CAUTION SHALL BE EXERCISED TO ENSURE THAT NO DAMAGE OCCURS ABSOLUTELY TO ANY OF THE EXISTING EQUIPMENT, FURNITURE, OR EXISTING STRUCTURE TO REMAIN. METHODS SHALL BE IN PLACE TO PREVENT ANY DEBRIS FROM FALLING ONTO LOWER LEVELS AT ALL TIMES. WORK SHALL BE CONFINED EXCLUSIVELY WITHIN THE BUILDING BOUNDARY IDENTIFIED. DEMOLITION CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE TO ADJOINING SURFACES, FINISHES OR STRUCTURE CAUSED BY CONSTRUCTION OPERATIONS.(ACTIVITY)
- ALL MATERIAL REMOVED UNDER THIS CONTRACT, WHICH IS NOT TO BE SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. TO REMOVE MATERIALS, USE MOVABLE, COVERED, DEBRIS BOXES. DO NOT STORE/PERMIT DEBRIS TO ACCUMULATE ON SITE.
- UPON COMPLETION OF THE WORK, ADJACENT AREAS AND THE PROPERTY SHALL BE LEFT CLEAN AND SATISFACTORY TO THE LOCAL AUTHORITIES, THE OWNER, AND THE ARCHITECT. THE SITE SHALL BE CLEANED DAILY.
- ALL DEBRIS REMOVAL FREQUENCY AND LOCATION AND STAGING SHALL BE COORDINATED WITH OWNER.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR WORK NEXT TO THE WORK SITE.

APPLICABLE CODES

- TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS ARE COMPLETE, AND COMPLY WITH ALL APPLICABLE CODES
- THE DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS. SHOULD THERE BE A CONFLICT BETWEEN ANY CODE REQUIREMENTS, COMPLY WITH THE REQUIREMENT THAT PROVIDES THE GREATEST DEGREE OF LIFE SAFETY.
 - FBC (FLORIDA BUILDING CODE), 6TH EDITION (2017) INCLUDING:
 - FBC-BUILDING
 - FBC-MECHANICAL
 - FBC-PLUMBING
 - FBC-FUEL GAS
 - FBC-ACCESSIBILITY
 - FLORIDA FIRE PREVENTION CODE FAC 2017 INCLUDING:
 - NFPA 1-2015
 - NFPA 101-2015
 - NFPA CODES LISTED IN FAC 69A-60.005
 - 69A-58 FL FIRE SAFETY IN EDUCATIONAL FACILITIES, CURRENT EDITION
 - STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES 2014
 - ASCE 7-10: AMERICAN SOCIETY OF CIVIL ENGINEERS
 - UL FIRE RESISTANCE DIRECTORY AS VERIFIED AT WWW.UL.COM
 - OSHA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, USDEPARTMENT OF LABOR, CFR 29 AS CURRENTLY REVISED
 - FEMA (FEDERAL EMERGENCY MANAGEMENT AGENCY), RULES & REGULATIONS, 44 CFR, PARTS 59 & 60, REVISED OCTOBER 1995 FOR FLOOD PLAIN CRITERIA GOVERNING INSURABILITY OF FACILITIES CONSTRUCTED IN FLOOD PLAIN AREAS.
 - FLORIDA STATUTES AND STATE RULES, INCLUDING, BUT NOT LIMITED TO, CHAPTERS 1013, 240, 255, 468, 471, 481, 489, 553, 633, AND SECTION 287.055, FLORIDA STATUTES, AND VARIOUS STATE RULES AS APPLICABLE TO SPECIFIC PROJECTS.
 - NFPA 101 CHAPTER 14 NEW EDUCATIONAL FACILITIES, SECTION 14.3.2 PROTECTION FROM HAZARDS

宋
Song + Associates

Architecture • Planning • Interior Design

1545 Centrepark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482

AA - 0003165 IB - 0001095

Seal:

Name: PERRY DOUGLASS
License #: AR 97112

Consultants:

COPYRIGHT ©2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is completed or not. They are not to be used in any manner on other projects or extensions to the project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions:

Date: 09/19/2018

S+A Project No: 18033

Owner Project No: PD/WS

Drawn By: PD

Checked By: PD

Phase: CONSTRUCTION DOCUMENTS

Sheet Title: INDEX, ABBREVIATIONS, GENERAL NOTES & VICINITY MAP

Sheet #: G-101

SECTION 02 41 19 - SELECTIVE DEMOLITION

PART 1 GENERAL

1.1 RELATED DOCUMENTS:

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO WORK IN THIS SECTION.

1.2 SECTION INCLUDES:

A. REQUIRED DEMOLITION OF DESIGNATED EXISTING PORTIONS OF BUILDINGS AND BUILDING ELEMENTS.
B. SALVAGE OF DESIGNATED ITEMS.

1.3 REFERENCES:

A. COMPLY WITH NFPA 1 - CHAPTER 29
B. NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION ALTERATION AND DEMOLITION OPERATION 2000 EDITION.
C. FLORIDA BUILDING CODE CHAPTER 33

1.4 NOTIFICATION OF OWNERS OF UTILITY LINES AND EQUIPMENT

A. NOTIFY THE OWNER OR LOCAL AUTHORITY OWNING ANY CONDUITS, WIRES, PIPES OR EQUIPMENT AFFECTED BY DEMOLITION WORK.
B. ARRANGE FOR REMOVAL OR RELOCATION OF AFFECTED ITEMS AND PAY FEES OR COSTS IN CONJUNCTION WITH REMOVAL OR RELOCATION, EXCEPT AS OTHERWISE NOTED.

1.5 PROTECTION

A. PRIOR TO STARTING ANY WORK ON SITE, PROVIDE A SAFETY PLAN TO THE OWNER FOR APPROVAL.
B. CONSTRUCTION MAY BE TAKING PLACE ON ACTIVE OCCUPIED CAMPUS. COORDINATION WITH IRCSD FACILITIES PLANNING/CONSTRUCTION DEPARTMENT AND CONSIDERATIONS FOR THE SAFETY OF STUDENTS, FACULTY, STAFF AND VISITORS SHOULD BE A HIGH PRIORITY.
C. COORDINATE THE IMPLEMENTATION OF THE SAFETY PLAN WITH THE OWNER, CAMPUS SECURITY, BUILDING REPRESENTATIVES, AND MAINTENANCE.
D. PRIOR TO STARTING DEMOLITION OPERATIONS, PROVIDE NECESSARY PROTECTION OF EXISTING SPACES AND ITEMS TO REMAIN.
E. OWNER WILL BE CONTINUOUSLY OCCUPYING AREAS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION. IF OWNER CONTINUES TO OCCUPY THE FACILITY COMPLY WITH THE FOLLOWING:

- 1. CONDUCT DEMOLITION WORK IN A MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF OWNERS NORMAL OPERATIONS.
2. PROVIDE PROTECTIVE MEASURES AS REQUIRED TO PROVIDE FREE AND SAFE PASSAGE OF OWNER'S PERSONNEL, OCCUPANTS, AND STUDENTS, AND GENERAL PUBLIC TO AND FROM OCCUPIED PORTIONS OF THE FACILITIES.
3. PROVIDE MINIMUM OF 72 HOURS ADVANCE NOTICE TO OWNER OF DEMOLITION ACTIVITIES THAT WILL IMPACT OWNER'S NORMAL OPERATIONS. OBTAIN SPECIFIC APPROVAL FROM OWNER FOR IMPACT.
F. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS TO BE DEMOLISHED. CONDITIONS AT TIME OF COMMENCEMENT OF CONTRACT WILL BE MAINTAINED BY OWNER INSOFAR AS PRACTICAL.
G. PROTECT ANY EXPOSED EXISTING FINISH WORK THAT IS TO REMAIN DURING DEMOLITION OPERATIONS.
H. ERECT AND MAINTAIN DUST PROOF PARTITIONS, CLOSURES AND VENTILATOR SYSTEMS AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. TAKE WHATEVER PRECAUTIONS NECESSARY TO MINIMIZE IMPACT ON OCCUPIED AREAS.
I. INSTALL SOUND MITIGATING MATERIALS WHERE EXCESSIVE NOISE MAY IMPACT OWNER AND OCCUPANTS. COORDINATE SOUND MITIGATION EFFORTS WITH THE OWNER.
J. CONSTRUCTION SITE SHALL BE KEPT COMPLETELY SECURED.
K. NO UNAUTHORIZED IRCSD FACULTY, STAFF OR VISITORS SHALL BE ALLOWED ON THE CONSTRUCTION SITE WITHOUT APPROVAL OF FACILITIES PLANNING.

A.

1.6 REGULATORY REQUIREMENTS

A. CONFORM TO APPLICABLE CODES FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF AND EROSION CONTROL, AND DISPOSAL OF DEMOLISHED MATERIALS.
B. OBTAIN REQUIRED PERMITS FROM AUTHORITIES HAVING JURISDICTION.
C. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
D. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND HYDRANTS, WITHOUT PERMITS AND OWNER'S PERMISSION.
E. CONFORM TO APPLICABLE REGULATORY PROCEDURES WHEN DISCOVERING HAZARDOUS OR CONTAMINATED MATERIALS. CONTACT THE ARCHITECT AND OWNER IMMEDIATELY.
F. TEST SOILS AROUND BURIED TANKS FOR CONTAMINATION.
G. NO DEMOLITION WILL OCCUR AFTER ESTABLISHED HOURS WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
H. OBTAIN OWNER'S APPROVAL PRIOR TO DEMOLITION/INVASIVE TESTING.

1.7 EXPLOSIVES

A. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. PART 2 PRODUCTS - 2.01 GENERAL

A. PROVIDE ALL PRODUCTS AND MATERIALS NECESSARY TO COMPLY WITH THESE SPECIFICATIONS. PART 3 EXECUTION

3.1 PREPARATION

A. VERIFY THAT ABANDONED UTILITIES ARE PROPERLY DISCONNECTED AND CAPPED.
B. VERIFY THAT REQUIRED BARRICADES AND OTHER PROTECTIVE MEASURES ARE IN PLACE.
C. PROVIDE NECESSARY SHORING, BRACING, AND OTHER PRECAUTIONS REQUIRED TO PROPERLY SUPPORT EXISTING STRUCTURE DURING CUTTING AND DEMOLITION OPERATIONS.
D. PHOTOGRAPH EXISTING CONDITIONS OF STRUCTURE, SURFACES, EQUIPMENT AND SURROUNDING SPACES THAT COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK. SUBMIT PHOTOGRAPHS AND WRITTEN REPORT OF EXISTING DAMAGE TO ARCHITECT PRIOR TO STARTING WORK.

1. CONTRACTOR SHALL REPAIR DAMAGE CAUSED TO EXISTING FACILITIES AT NO COST TO OWNER UNLESS THEY CAN PROVIDE DOCUMENTATION IS INDICATING PRE-EXISTING DAMAGE.

3.2 DEMOLITION OPERATIONS

A. COMPLY WITH THE DRAWINGS AND ALTERATION PRECAUTIONS AND PROCEDURES SPECIFIED IN SECTION 01 26 00.
B. CUT AND REMOVE ELEMENTS AND EQUIPMENT AS DESIGNATED ON DRAWINGS. REMOVE

ELEMENTS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED.

C. EXECUTE DEMOLITION IN A CAREFUL AND ORDERLY MANNER WITH LEAST POSSIBLE DISTURBANCE OR DAMAGE TO ADJOINING SURFACES AND STRUCTURE.
D. EXERCISE EXTREME CAUTION IN CUTTING AND DEMOLITION OF PORTIONS OF EXISTING STRUCTURE. OBTAIN APPROVAL OF ARCHITECT PRIOR TO CUTTING OR REMOVING STRUCTURAL MEMBERS FOR ANY REASON.
E. AVOID EXCESSIVE VIBRATIONS IN DEMOLITION PROCEDURES THAT MAY BE TRANSMITTED THROUGH EXISTING STRUCTURE AND FINISH MATERIALS.
F. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING ASSESSMENT, REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION AND IMMEDIATELY CONTACT THE OWNER AND ARCHITECT.

3.3 DISPOSAL

A. MATERIALS, EQUIPMENT AND DEBRIS RESULTING FROM DEMOLITION OPERATIONS SHALL BECOME PROPERTY OF CONTRACTOR. REMOVE DEMOLITION DEBRIS AT LEAST ONCE EACH DAY IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND FEDERAL LAWS.
B. COVER DEBRIS IN TRUCKS WITH APPROVED NETTING TO PREVENT SPILLAGE DURING TRANSPORTATION.
A.
C. DO NOT BURN MATERIALS.
D. DO NOT STORE DEBRIS ON SITE EXCEPT IN APPROVED CONTAINERS. REMOVE COMBUSTIBLE WASTE MATERIALS IN A MANNER APPROVED BY LOCAL FIRE DEPARTMENT.
E. REMOVE, HANDLE AND DISPOSE OF ANY HAZARDOUS WASTE AND DEBRIS IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND FEDERAL LAWS.
F. TRANSPORT DEMOLITION DEBRIS TO OFF-SITE DISPOSAL AREA AND LEGALLY DISPOSE OF DEBRIS.
G. USE STREET ROUTES SPECIFICALLY DESIGNATED BY CITY OR COUNTY FOR HAULING DEBRIS.
H. WHEN POSSIBLE, DISPOSE OF MATERIAL TO RECYCLING CENTERS.
3.4 CLEANING AND REPAIR
A. LEAVE BUILDING BROOM CLEAN AND FREE OF DEBRIS, READY TO RECEIVE NEW WORK.
B. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION.

END OF SECTION 02 41 19

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION SPECIFIES CAST-IN PLACE CONCRETE, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, MIXTURE DESIGN, PLACEMENT PROCEDURES, AND FINISHES, FOR THE FOLLOWING:
1. SLABS-ON-GRADE.

1.2 DEFINITIONS

A. CEMENTITIOUS MATERIALS: PORTLAND CEMENT ALONE OR IN COMBINATION WITH ONE OR MORE OF THE FOLLOWING: BLENDED HYDRAULIC CEMENT, FLY ASH AND OTHER POZZOLANS, GROUND GRANULATED BLAST-FURNACE SLAG, AND SILICA FUME; SUBJECT TO COMPLIANCE WITH REQUIREMENTS.

1.3 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
B. DESIGN MIXTURES: FOR EACH CONCRETE MIXTURE. SUBMIT ALTERNATE DESIGN MIXTURES WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.
C. STEEL REINFORCEMENT SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS, TIE SPACING, HOOP SPACING, AND SUPPORTS FOR CONCRETE REINFORCEMENT.
D. MATERIAL CERTIFICATES: FOR EACH OF THE FOLLOWING, SIGNED BY MANUFACTURERS:
1. CEMENTITIOUS MATERIALS.
2. ADMIXTURES.
3. FORM MATERIALS AND FORM-RELEASE AGENTS.
4. STEEL REINFORCEMENT AND ACCESSORIES.
5. FIBER REINFORCEMENT.
6. WATER-STOPS.
7. CURING COMPOUNDS.
8. BONDING AGENTS.
9. ADHESIVES.
10. VAPOR RETARDERS.
11. SEMI-RIGID JOINT FILLER.
12. JOINT-FILLER STRIPS.
13. REPAIR MATERIALS.

1.4 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS AND THAT COMPLIES WITH ASTM C 94/C 94M REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.
1. MANUFACTURER CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES."
B. SOURCE LIMITATIONS: OBTAIN EACH TYPE OR CLASS OF CEMENTITIOUS MATERIAL OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT, OBTAIN AGGREGATE FROM ONE SOURCE, AND OBTAIN ADMIXTURES THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
C. WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.4, "STRUCTURAL WELDING CODE - REINFORCING STEEL."
D. ACI PUBLICATIONS: COMPLY WITH THE FOLLOWING UNLESS MODIFIED BY REQUIREMENTS IN THE CONTRACT DOCUMENTS:
1. ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE;" SECTIONS 1 THROUGH 5
2. ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
E. CONCRETE TESTING SERVICE: DESIGN BUILD CONTRACTOR WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM MATERIAL EVALUATION TESTS AND TO DESIGN CONCRETE MIXTURES.

1.5 DELIVERY, STORAGE, AND HANDLING

A. STEEL REINFORCEMENT: DELIVER, STORE, AND HANDLE STEEL REINFORCEMENT TO PREVENT BENDING AND DAMAGE.
B. WATER-STOPS: STORE WATER-STOPS UNDER COVER TO PROTECT FROM MOISTURE, SUNLIGHT, DIRT, OIL, AND OTHER CONTAMINANTS.

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. SMOOTH-FORMED FINISHED CONCRETE: FORM-FACING PANELS THAT WILL PROVIDE CONTINUOUS, TRUE, AND SMOOTH CONCRETE SURFACES. FURNISH IN LARGEST PRACTICABLE SIZES TO MINIMIZE NUMBER OF JOINTS.
1. PLYWOOD, METAL, OR OTHER APPROVED PANEL MATERIALS.
B. ROUGH-FORMED FINISHED CONCRETE: PLYWOOD, LUMBER, METAL, OR ANOTHER APPROVED MATERIAL.
PROVIDE LUMBER DRESSED ON AT LEAST TWO EDGES AND ONE SIDE FOR TIGHT FIT.
C. FORM-RELEASE AGENT: COMMERCIALY FORMULATED FORM-RELEASE AGENT THAT WILL NOT BOND WITH, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES.
1. FORMULATE FORM-RELEASE AGENT WITH RUST INHIBITOR FOR STEEL FORM-FACING MATERIALS.
D. FORM TIES: FACTORY-FABRICATED, REMOVABLE OR SNAP-OFF METAL OR GLASS-FIBER-REINFORCED PLASTIC FORM TIES DESIGNED TO RESIST LATERAL PRESSURE OF FRESH CONCRETE ON FORMS AND TO PREVENT SPALLING OF CONCRETE ON REMOVAL.

2.2 STEEL REINFORCEMENT

A. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.
B. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, PLAIN, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
C. GALVANIZED-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, PLAIN, FABRICATED FROM GALVANIZED STEEL WIRE INTO FLAT SHEETS.

2.3 REINFORCEMENT ACCESSORIES

A. JOINT DowEL BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), PLAIN-STEEL BARS, CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
B. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE," OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE AND AS FOLLOWS:
1. FOR CONCRETE SURFACES EXPOSED TO VIEW WHERE LEGS OF WIRE BAR SUPPORTS CONTACT FORMS, USE CRSI CLASS 1 PLASTIC-PROTECTED STEEL WIRE OR CRSI CLASS 2 STAINLESS-STEEL BAR SUPPORTS.

2.4 CONCRETE MATERIALS

A. CEMENTITIOUS MATERIAL: USE THE FOLLOWING CEMENTITIOUS MATERIALS, OF THE SAME TYPE, BRAND, AND SOURCE, THROUGHOUT PROJECT:
1. PORTLAND CEMENT: ASTM C 150, TYPE I OR I/II
a. FLY ASH: ASTM C 618, CLASS C.
B. NORMAL-WEIGHT AGGREGATES: ASTM C 33 COARSE AGGREGATE OR BETTER, GRADED, PROVIDE AGGREGATES FROM A SINGLE SOURCE.
1. MAXIMUM COARSE-AGGREGATE SIZE: 1 INCH (25 MM) NOMINAL.
2. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
C. WATER: ASTM C 94/C 94M.

2.5 ADMIXTURES

A. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
B. CHEMICAL ADMIXTURES: PROVIDE ADMIXTURES CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES AND THAT WILL NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.
1. WATER-REDUCING ADMIXTURE: ASTM C 494/C 494M, TYPE A.
2. RETARDING ADMIXTURE: ASTM C 494/C 494M, TYPE B.
3. WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C 494/C 494M, TYPE D.
4. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C 494/C 494M, TYPE F.
5. HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C 494/C 494M, TYPE G.
6. PLASTICIZING AND RETARDING ADMIXTURE: ASTM C 1017/C 1017M, TYPE II.

2.6 VAPOR RETARDERS

A. PLASTIC VAPOR RETARDER: ASTM E 1745, CLASS C, OR POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 10 MILS (0.25 MM) THICK. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE JOINT TAPE.
2.7 CURING MATERIALS
A. EVAPORATION RETARDER: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
B. ABSORPTIVE COVER: AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ./SQ. YD. (305 G/SQ. M) WHEN DRY.
C. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.
D. WATER: POTABLE.
E. CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B, NON-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

2.8 RELATED MATERIALS

A. EXPANSION- AND ISOLATION-JOINT-FILLER STRIPS: HIGH-R EXPANSION/INSULATION FILLER.
B. BONDING AGENT: ASTM C 1059, TYPE II, NON-REDISPERSIBLE, ACRYLIC EMULSION OR STYRENE BUTADIENE.
C. DOVETAIL ANCHOR SLOTS: HOT-DIP GALVANIZED STEEL SHEET, NOT LESS THAN 0.0336 INCH (0.85 MM) THICK, WITH BENT TAB ANCHORS. TEMPORARILY FILL OR COVER FACE OPENING OF SLOTS TO PREVENT INTRUSION OF CONCRETE OR DEBRIS.

2.9 CONCRETE MIXTURES, GENERAL

A. PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, ACCORDING TO ACI 301.
1. USE A QUALIFIED INDEPENDENT TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIXTURE DESIGNS BASED ON LABORATORY TRIAL MIXTURES.
B. CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE AS FOLLOWS:
1. FLY ASH: 25 PERCENT.
2. COMBINED FLY ASH AND POZZOLAN: 25 PERCENT.
C. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.06 PERCENT BY WEIGHT OF CEMENT.
D. ADMIXTURES: USE ADMIXTURES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. USE WATER-REDUCING OR PLASTICIZING ADMIXTURE IN CONCRETE, AS REQUIRED, FOR PLACEMENT AND WORKABILITY.
2. USE WATER-REDUCING AND RETARDING ADMIXTURE WHEN REQUIRED BY HIGH TEMPERATURES, LOW HUMIDITY, OR OTHER ADVERSE PLACEMENT CONDITIONS.
3. USE WATER-REDUCING ADMIXTURE IN PUMPED CONCRETE, CONCRETE FOR HEAVY-USE INDUSTRIAL SLABS AND PARKING STRUCTURE SLABS, CONCRETE REQUIRED TO BE WATERTIGHT, AND CONCRETE WITH A WATER-CEMENTITIOUS MATERIALS RATIO BELOW 0.50.

2.10 CONCRETE MIXTURES FOR BUILDING ELEMENTS

A. COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURES.
B. PREPARE DESIGN MIXES, PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA BASES, AS FOLLOWS:
1. COMPRESSIVE STRENGTH (28 DAYS): 3000 PSI (20.7 MPA), 4000 PSI (27.6 MPA), REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REQUIRED STRENGTH AND MAXIMUM W/C RATIO WHERE SPECIFIED.
2. SLUMP: 4 INCHES (100 MM).
a. SLUMP LIMIT FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: NOT MORE THAN 8 INCHES (200 MM) AFTER ADDING ADMIXTURE TO PLANT- OR SITE-VERIFIED, 2- TO 3-INCH (50- TO 75-MM) SLUMP.
C. ADD AIR-ENTRAINING ADMIXTURE AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AN AIR CONTENT OF 2.5 TO 4.5 PERCENT.
1. AIR CONTENT OF TROWEL-FINISHED INTERIOR CONCRETE FLOORS SHALL NOT EXCEED 3.0 PERCENT.

2.11 FABRICATING REINFORCEMENT

A. FABRICATE STEEL REINFORCEMENT ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE."

2.12 CONCRETE MIXING

A. READY-MIXED CONCRETE: MEASURE, BATCH, MIX, AND DELIVER CONCRETE ACCORDING TO ASTM C 94/C 94M, AND FURNISH BATCH TICKET INFORMATION.
1. WHEN AIR TEMPERATURE IS BETWEEN 85 AND 90 DEG F (30 AND 32 DEG C), REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90 DEG F (32 DEG C), REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
2. PROVIDE BATCH TICKET FOR EACH BATCH DISCHARGED AND USED IN THE WORK, INDICATING PROJECT IDENTIFICATION NAME AND NUMBER, DATE, MIXTURE TYPE, MIXTURE TIME, QUANTITY, AND AMOUNT OF WATER ADDED. RECORD APPROXIMATE LOCATION OF FINAL DEPOSIT IN STRUCTURE.

PART 3 - EXECUTION

3.1 FORMWORK

A. DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.
B. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.
C. LIMIT CONCRETE SURFACE IRREGULARITIES, DESIGNATED BY ACI 347R AS ABRUPT OR GRADUAL, AS FOLLOWS:
1. CLASS A, 1/8 INCH (3.2 MM) FOR SMOOTH-FORMED FINISHED SURFACES.
2. CLASS C, 1/2 INCH (13 MM) FOR ROUGH-FORMED FINISHED SURFACES.
D. CONSTRUCT FORMS TIGHT ENOUGH TO PREVENT LOSS OF CONCRETE MORTAR.
E. FABRICATE FORMS FOR EASY REMOVAL WITHOUT HAMMERING OR PRYING AGAINST CONCRETE SURFACES.
PROVIDE CRUSH OR WRECKING PLATES WHERE STRIPPING MAY DAMAGE CAST CONCRETE SURFACES. PROVIDE TOP FORMS FOR INCLINED SURFACES STEEPER THAN 1.5 HORIZONTAL TO 1 VERTICAL.
1. INSTALL KEYWAYS, REGLETS, RECESSES, AND THE LIKE, FOR EASY REMOVAL.
2. DO NOT USE RUST-STAINED STEEL FORM-FACING MATERIAL.
F. SET EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED STRIPS FOR SLABS TO ACHIEVE REQUIRED ELEVATIONS AND SLOPES IN FINISHED CONCRETE SURFACES. PROVIDE AND SECURE UNITS TO SUPPORT SCREED STRIPS; USE STRIKE-OFF TEMPLATES OR COMPACTING-TYPE SCREDS.
G. PROVIDE TEMPORARY OPENINGS FOR CLEANOUTS AND INSPECTION PORTS WHERE INTERIOR AREA OF FORMWORK IS UNACCESSIBLE. CLOSE OPENINGS WITH PANELS TIGHTLY FITTED TO FORMS AND SECURELY BRACED TO PREVENT LOSS OF CONCRETE MORTAR. LOCATE TEMPORARY OPENINGS IN FORMS AT INCONSPICUOUS LOCATIONS.
H. DO NOT CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
I. FORM OPENINGS, CHASES, OFFSETS, SINK-AGES, KEYWAYS, REGLETS, BLOCKING, SCREEDS, AND BULKHEADS REQUIRED IN THE WORK. DETERMINE SIZES AND LOCATIONS FROM TRADES PROVIDING SUCH ITEMS.
J. CLEAN FORMS AND ADJACENT SURFACES TO RECEIVE CONCRETE. REMOVE CHIPS, WOOD, SAWDUST, DIRT, AND OTHER DEBRIS JUST BEFORE PLACING CONCRETE.
K. RETIGHTEN FORMS AND BRACING BEFORE PLACING CONCRETE, AS REQUIRED, TO PREVENT MORTAR LEAKS AND MAINTAIN PROPER ALIGNMENT.
L. COAT CONTACT SURFACES OF FORMS WITH FORM-RELEASE AGENT, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, BEFORE PLACING REINFORCEMENT.

3.2 REMOVING AND REUSING FORMS

A. GENERAL: FORMWORK FOR SIDES OF BEAMS, WALLS, COLUMNS, AND SIMILAR PARTS OF THE WORK THAT DOES NOT SUPPORT WEIGHT OF CONCRETE MAY BE REMOVED AFTER CUMULATIVELY CURING AT NOT LESS THAN 50 DEG F (10 DEG C) FOR 24 HOURS AFTER PLACING CONCRETE, IF CONCRETE IS HARD ENOUGH TO NOT BE DAMAGED BY FORM-REMOVAL OPERATIONS AND CURING AND PROTECTION OPERATIONS ARE MAINTAINED.
1. LEAVE FORMWORK FOR BEAM SOFFITS, JOISTS, SLABS, AND OTHER STRUCTURAL ELEMENTS THAT SUPPORTS WEIGHT OF CONCRETE IN PLACE UNTIL CONCRETE HAS ACHIEVED AT LEAST 70 PERCENT OF ITS 28-DAY DESIGN COMPRESSIVE STRENGTH.
2. REMOVE FORMS ONLY IF SHORES HAVE BEEN ARRANGED TO PERMIT REMOVAL OF FORMS WITHOUT LOOSENING OR DISTURBING SHORES.
B. CLEAN AND REPAIR SURFACES OF FORMS TO BE REUSED IN THE WORK. SPLIT, FRAYED, DELAMINATED, OR OTHERWISE DAMAGED FORM-FACING MATERIAL WILL NOT BE ACCEPTABLE FOR EXPOSED SURFACES. APPLY NEW FORM-RELEASE AGENT.
C. WHEN FORMS ARE REUSED, CLEAN SURFACES, REMOVE FINIS AND LAITANCE, AND TIGHTEN TO CLOSE JOINTS.
ALIGN AND SECURE JOINTS TO AVOID OFFSETS. DO NOT USE PATCHED FORMS FOR EXPOSED CONCRETE SURFACES UNLESS APPROVED BY ARCHITECT.

3.3 VAPOR RETARDERS

A. PLASTIC VAPOR RETARDERS: PLACE, PROTECT, AND REPAIR VAPOR RETARDERS ACCORDING TO ASTM E 1643 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

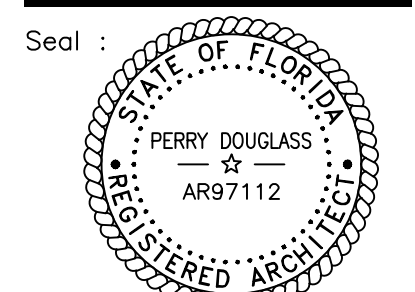
1. LAP JOINTS 6 INCHES (150 MM) AND SEAL WITH MANUFACTURERS RECOMMENDED TAPE.

3.4 STEEL REINFORCEMENT

A. GENERAL: COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING REINFORCEMENT.
1. DO NOT CUT OR PUNCTURE VAPOR RETARDER. REPAIR DAMAGE AND RESEAL VAPOR RETARDER BEFORE PLACING CONCRETE.
B. CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, AND OTHER FOREIGN MATERIALS THAT WOULD REDUCE BOND TO CONCRETE.
C. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. LOCATE AND SUPPORT REINFORCEMENT WITH BAR SUPPORTS TO MAINTAIN MINIMUM CONCRETE COVER. DO NOT TACK WELD CROSSING REINFORCING BARS.
D. SET WIRE TIES WITH ENDS DIRECTED INTO CONCRETE, NOT TOWARD EXPOSED CONCRETE SURFACES.



Architecture • Planning • Interior Design
1545 Centrepark Drive North West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482



Name: PERRY DOUGLASS
License #: AR 97112
Consultants:

COPYRIGHT © 2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR. SEBASTIAN, FL 32958

Revisions table with columns for revision number and description.

Date: 09/19/2018
S+A Project No.: 18033
Owner Project No.:
Drawn By: PD/WS
Checked By: PD

Phase: CONSTRUCTION DOCUMENTS

Sheet Title:

SPECIFICATIONS

Sheet #:

G-102

E. INSTALL WELDED WIRE REINFORCEMENT IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS AT LEAST ONE MESH SPACING. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.

3.5 JOINTS

A. GENERAL: CONSTRUCT JOINTS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE.
B. CONSTRUCTION JOINTS: INSTALL SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY ARCHITECT.
1. PLACE JOINTS PERPENDICULAR TO MAIN REINFORCEMENT. CONTINUE REINFORCEMENT ACROSS CONSTRUCTION JOINTS, UNLESS OTHERWISE INDICATED. DO NOT CONTINUE REINFORCEMENT THROUGH SIDES OF STRIP PLACEMENTS OF FLOORS AND SLABS.
2. FORM KEED JOINTS AS INDICATED. EMBED KEYS AT LEAST 1-1/2 INCHES (38 MM) INTO CONCRETE.
3. LOCATE JOINTS FOR BEAMS, SLABS, JOISTS, AND GIRDERS IN THE MIDDLE THIRD OF SPANS. OFFSET JOINTS IN GIRDERS A MINIMUM DISTANCE OF TWICE THE BEAM WIDTH FROM A BEAM-GIRDER INTERSECTION.
4. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF FLOORS, SLABS, BEAMS, AND GIRDERS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS.
5. USE EPOXY-BONDING ADHESIVE AT LOCATIONS WHERE FRESH CONCRETE IS PLACED AGAINST HARDENED OR PARTIALLY HARDENED CONCRETE SURFACES.
C. CONTRACTION JOINTS IN SLABS-ON-GRADE: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE- FOURTH OF CONCRETE THICKNESS AS FOLLOWS:
1. SAWed JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH- (3.2-MM-) WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADe, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.

3.6 CONCRETE PLACEMENT

A. BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED.
B. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED BY ARCHITECT.
C. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED.
D. HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301 AND AS FOLLOWS:
1. MAINTAIN CONCRETE TEMPERATURE BELOW 90 DEG F (32 DEG C) AT TIME OF PLACEMENT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE. PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER.

3.7 FINISHING FORMED SURFACES

A. RUBBED FINISH: APPLY THE FOLLOWING TO SMOOTH-FORMED FINISHED AS-CAST CONCRETE:
1. SMOOTH-RUBBED FINISH: NOT LATER THAN ONE DAY AFTER FORM REMOVAL, MOISTEN CONCRETE SURFACES AND RUB WITH CARBORUNDUM BRICK OR ANOTHER ABRASIVE UNTIL PRODUCING A UNIFORM COLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN THAT CREATED BY THE RUBBING PROCESS.
B. RELATED UNFORMED SURFACES: AT TOPS OF WALLS, HORIZONTAL OFFSETS, AND SIMILAR UNFORMED SURFACES ADJACENT TO FORMED SURFACES, STRIKE OFF SMOOTH AND FINISH WITH A TEXTURE MATCHING ADJACENT FORMED SURFACES. CONTINUE FINAL SURFACE TREATMENT OF FORMED SURFACES UNIFORMLY ACROSS ADJACENT UNFORMED SURFACES, UNLESS OTHERWISE INDICATED.

3.8 FINISHING FLOORS AND SLABS

A. GENERAL: COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RE-STRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.
B. BROOM FINISH: APPLY A BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS, AND ELSEWHERE AS INDICATED.
1. IMMEDIATELY AFTER FLOAT FINISHING, SLIGHTLY ROUGHEN TRAFFICKED SURFACE BY BROOMING WITH FIBER-BRISTLE BROOM PERPENDICULAR TO MAIN TRAFFIC ROUTE. COORDINATE REQUIRED FINAL FINISH WITH ARCHITECT BEFORE APPLICATION.

3.9 MISCELLANEOUS CONCRETE ITEMS

A. FILLING IN: FILL IN HOLES AND OPENINGS LEFT IN CONCRETE STRUCTURES, UNLESS OTHERWISE INDICATED, AFTER WORK OF OTHER TRADES IS IN PLACE. MIX, PLACE, AND CURE CONCRETE, AS SPECIFIED, TO BLEND WITH IN- PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING INDICATED OR REQUIRED TO COMPLETE THE WORK.

3.10 CONCRETE PROTECTING AND CURING

A. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND ACI 301 FOR HOT-WEATHER PROTECTION DURING CURING.
B. EVAPORATION RETARDER: APPLY EVAPORATION RETARDER TO UNFORMED CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS APPROACHING 0.2 LB/SQ. FT. X H (1 KG/SQ. M X H) BEFORE AND DURING FINISHING OPERATIONS. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AFTER PLACING, SCREEDING, AND BULL FLOATING OR DARBYING CONCRETE, BUT BEFORE FLOAT FINISHING.
C. FORMED SURFACES: CURE FORMED CONCRETE SURFACES, INCLUDING UNDERSIDE OF BEAMS, SUPPORTED SLABS, AND OTHER SIMILAR SURFACES. IF FORMS REMAIN DURING CURING PERIOD, MOIST CURE AFTER LOOSENING FORMS. IF REMOVING FORMS BEFORE END OF CURING PERIOD, CONTINUE CURING FOR THE REMAINDER OF THE CURING PERIOD.
D. UNFORMED SURFACES: BEGIN CURING IMMEDIATELY AFTER FINISHING CONCRETE. CURE UNFORMED SURFACES, INCLUDING FLOORS AND SLABS, CONCRETE FLOOR TOPPING, AND OTHER SURFACES.
E. CURE CONCRETE ACCORDING TO ACI 308.1.

3.11 JOINT FILLING

A. PREPARE, CLEAN, AND INSTALL JOINT FILLER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. DEFER JOINT FILLING UNTIL CONCRETE HAS AGED AT LEAST ONE MONTH(S). DO NOT FILL JOINTS UNTIL CONSTRUCTION TRAFFIC HAS PERMANENTLY CEASED.
B. REMOVE DIRT, DEBRIS, SAW CUTTINGS, CURING COMPOUNDS, AND SEALERS FROM JOINTS; LEAVE CONTACT FACES OF JOINT CLEAN AND DRY.
C. INSTALL SEMI-RIGID JOINT FILLER FULL DEPTH IN SAW-CUT JOINTS AND AT LEAST 2 INCHES (50 MM) DEEP IN FORMED JOINTS. OVERFILL JOINT AND TRIM JOINT FILLER FLUSH WITH TOP OF JOINT AFTER HARDENING.

3.12 CONCRETE SURFACE REPAIRS

A. DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.
B. PATCHING MORTAR: MIX DRY-PACK PATCHING MORTAR, CONSISTING OF ONE PART PORTLAND CEMENT TO TWO AND ONE-HALF PARTS FINE AGGREGATE PASSING A NO. 16

(1.18-MM) SIEVE, USING ONLY ENOUGH WATER FOR HANDLING AND PLACING.
C. REPAIRING FORMED SURFACES: SURFACE DEFECTS INCLUDE COLOR AND TEXTURE IRREGULARITIES, CRACKS, SPALLS, AIR BUBBLES, HONEYCOMBS, ROCK POCKETS, FINIS AND OTHER PROJECTIONS ON THE SURFACE, AND STAINS AND OTHER DISCOLORATIONS THAT CANNOT BE REMOVED BY CLEANING.

1. IMMEDIATELY AFTER FORM REMOVAL, CUT OUT HONEYCOMBS, ROCK POCKETS, AND VOIDS MORE THAN 1/2 INCH (13 MM) IN ANY DIMENSION IN SOLID CONCRETE, BUT NOT LESS THAN 1 INCH (25 MM) IN DEPTH. MAKE EDGES OF CUTS PERPENDICULAR TO CONCRETE SURFACE. CLEAN, DAMPEN WITH WATER, AND BRUSH-COAT HOLES AND VOIDS WITH BONDING AGENT. FILL AND COMPACT WITH PATCHING MORTAR BEFORE BONDING AGENT HAS DRIED. FILL FORM-TIE VOIDS WITH PATCHING MORTAR OR CONE PLUGS SECURED IN PLACE WITH BONDING AGENT.
2. REPAIR DEFECTS ON SURFACES EXPOSED TO VIEW BY BLENDING WHITE PORTLAND CEMENT AND STANDARD PORTLAND CEMENT SO THAT, WHEN DRY, PATCHING MORTAR WILL MATCH SURROUNDING COLOR. PATCH A TEST AREA AT INCONSPICUOUS LOCATIONS TO VERIFY MIXTURE AND COLOR MATCH BEFORE PROCEEDING WITH PATCHING. COMPACT MORTAR IN PLACE AND STRIKE OFF SLIGHTLY HIGHER THAN SURROUNDING SURFACE.
3. REPAIR DEFECTS ON CONCEALED FORMED SURFACES THAT AFFECT CONCRETE'S DURABILITY AND STRUCTURAL PERFORMANCE AS DETERMINED BY ARCHITECT.
D. REPAIRING UNFORMED SURFACES: TEST UNFORMED SURFACES, SUCH AS FLOORS AND SLABS, FOR FINISH AND VERIFY SURFACE TOLERANCES SPECIFIED FOR EACH SURFACE. CORRECT LOW AND HIGH AREAS. TEST SURFACES SLOPED TO DRAIN FOR TRUENESS OF SLOPE AND SMOOTHNESS; USE A SLOPED TEMPLATE.
1. REPAIR FINISHED SURFACES CONTAINING DEFECTS. SURFACE DEFECTS INCLUDE SPALLS, POP-OUTS, HONEYCOMBS, ROCK POCKETS, CRAZING AND CRACKS IN EXCESS OF 0.01 INCH (0.25 MM) WIDE OR THAT PENETRATE TO REINFORCEMENT OR COMPLETELY THROUGH UNREINFORCED SECTIONS REGARDLESS OF WIDTH, AND OTHER OBJECTIONABLE CONDITIONS.
2. AFTER CONCRETE HAS CURED AT LEAST 14 DAYS, CORRECT HIGH AREAS BY GRINDING.
3. CORRECT LOCALIZED LOW AREAS DURING OR IMMEDIATELY AFTER COMPLETING SURFACE FINISHING OPERATIONS BY CUTTING LOW AREAS AND REPLACING WITH PATCHING MORTAR. FINISH REPAIRED AREAS TO BLEND INTO ADJACENT CONCRETE.
4. CORRECT OTHER LOW AREAS SCHEDULED TO RECEIVE FLOOR COVERINGS WITH A REPAIR UNDERLAYMENT. PREPARE, MIX, AND APPLY REPAIR UNDERLAYMENT AND PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PRODUCE A SMOOTH, UNIFORM, PLANE, AND LEVEL SURFACE. FEATHER EDGES TO MATCH ADJACENT FLOOR ELEVATIONS.
5. CORRECT OTHER LOW AREAS SCHEDULED TO REMAIN EXPOSED WITH A REPAIR TOPPING. CUT OUT LOW AREAS TO ENSURE A MINIMUM REPAIR TOPPING DEPTH OF 1/4 INCH (6 MM) TO MATCH ADJACENT FLOOR ELEVATIONS. PREPARE, MIX, AND APPLY REPAIR TOPPING AND PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PRODUCE A SMOOTH, UNIFORM, PLANE, AND LEVEL SURFACE.
6. REPAIR DEFECTIVE AREAS, EXCEPT RANDOM CRACKS AND SINGLE HOLES 1 INCH (25 MM) OR LESS IN DIAMETER, BY CUTTING OUT AND REPLACING WITH FRESH CONCRETE. REMOVE DEFECTIVE AREAS WITH CLEAN, SQUARE CUTS AND EXPOSE STEEL REINFORCEMENT WITH AT LEAST A 3/4-INCH (19-MM) CLEARANCE ALL AROUND. DAMPEN CONCRETE SURFACES IN CONTACT WITH PATCHING CONCRETE AND APPLY BONDING AGENT. MIX PATCHING CONCRETE OF SAME MATERIALS AND MIXTURE AS ORIGINAL CONCRETE EXCEPT WITHOUT COARSE AGGREGATE. PLACE, COMPACT, AND FINISH BLENDING WITH ADJACENT FINISHED CONCRETE. CURE IN SAME MANNER AS ADJACENT CONCRETE.
7. REPAIR RANDOM CRACKS AND SINGLE HOLES 1 INCH (25 MM) OR LESS IN DIAMETER WITH PATCHING mortar. GROOVE TOP OF CRACKS AND CUT OUT HOLES TO SOUND CONCRETE AND CLEAN OFF DUST, DIRT, AND LOOSE PARTICLES. DAMPEN CLEANED CONCRETE SURFACES AND APPLY BONDING AGENT. PLACE PATCHING MORTAR BEFORE BONDING AGENT HAS DRIED. COMPACT PATCHING MORTAR AND FINISH TO MATCH ADJACENT CONCRETE. KEEP PATCHED AREA CONTINUOUSLY MOIST FOR AT LEAST 72 HOURS.

E. PERFORM STRUCTURAL REPAIRS OF CONCRETE, SUBJECT TO ARCHITECT'S APPROVAL, USING EPOXY ADHESIVE AND PATCHING MORTAR.
F. REPAIR MATERIALS AND INSTALLATION NOT SPECIFIED ABOVE MAY BE USED, SUBJECT TO ARCHITECT'S APPROVAL.

3.13 FIELD QUALITY CONTROL

A. TESTING AND INSPECTING: DESIGN BUILD CONTRACTOR WILL ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND PREPARE TEST REPORTS.
B. CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
1. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD. (4 CU. M), BUT LESS THAN 25 CU. YD. (19 CU. M), PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. (38 CU. M) OR FRACTION THEREOF.
a. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
2. SLUMP: ASTM C 143/C 143M; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
3. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
4. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M.
a. CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
5. COMPRESSIVE-STRENGTH TESTS: ASTM C 39/C 39M; TEST ONE SET OF TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
a. TEST ONE SET OF TWO FIELD-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
b. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.
6. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI (3.4 MPa).
7. TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.
8. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BY ARCHITECT BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF CONCRETE.
9. ADDITIONAL TESTS: TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS

OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ARCHITECT. TESTING AND INSPECTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42/C 42M OR BY OTHER METHODS AS DIRECTED BY ARCHITECT.
10. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
11. CORRECT DEFICIENCIES IN THE WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS.
C. MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155 (ASTM E 1155M) WITHIN 48 HOURS OF FINISHING.

END OF SECTION 03 30 00

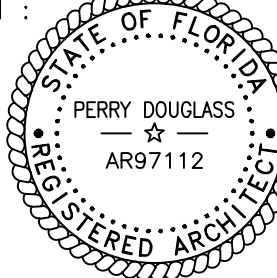
SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL


1.1 RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
1.2 SUMMARY
A. SECTION INCLUDES:
1. EXTERIOR MANUAL-SWING ENTRANCE DOORS.
1.3 DEFINITIONS
A. ADA/ABA ACCESSIBILITY GUIDELINES: U.S. ARCHITECTURAL & TRANSPORTATION BARRIERS COMPLIANCE BOARD'S "AMERICANS WITH DISABILITY ACT (ADA) AND ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."
1.4 PERFORMANCE REQUIREMENTS
A. GENERAL PERFORMANCE: ALUMINUM-FRAMED SYSTEMS SHALL WITHSTAND THE EFFECTS OF THE FOLLOWING PERFORMANCE REQUIREMENTS WITHOUT EXCEEDING PERFORMANCE CRITERIA OR FAILURE DUE TO DEFECTIVE MANUFACTURE, FABRICATION, INSTALLATION, OR OTHER DEFECTS IN CONSTRUCTION:
1. MOVEMENTS OF SUPPORTING STRUCTURE INDICATED ON DRAWINGS INCLUDING, BUT NOT LIMITED TO, STORY DRIFT AND DEFLECTION FROM UNIFORMLY DISTRIBUTED AND CONCENTRATED LIVE LOADS.
2. DIMENSIONAL TOLERANCES OF BUILDING FRAME AND OTHER ADJACENT CONSTRUCTION.
3. FAILURE INCLUDES THE FOLLOWING:
a. DEFLECTION EXCEEDING SPECIFIED LIMITS.
b. THERMAL STRESSES TRANSFERRING TO BUILDING STRUCTURE.
c. FRAMING MEMBERS TRANSFERRING STRESSES, INCLUDING THOSE CAUSED BY THERMAL AND STRUCTURAL MOVEMENTS TO GLAZING.
d. GLAZING-TO-GLAZING CONTACT.
e. NOISE OR VIBRATION CREATED BY WIND AND BY THERMAL AND STRUCTURAL MOVEMENTS.
f. LOOSENING OR WEAKENING OF FASTENERS, ATTACHMENTS, AND OTHER COMPONENTS.
g. SEALANT FAILURE.
h. FAILURE OF OPERATING UNITS.
B. DELEGATED DESIGN: DESIGN ALUMINUM-FRAMED SYSTEMS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.
C. STRUCTURAL LOADS:
1. WIND LOADS:
a. BASIC WIND SPEED: 90 MPH (40 M/S).
b. IMPORTANCE FACTOR: II.
c. EXPOSURE CATEGORY: B.
D. DEFLECTION OF FRAMING MEMBERS:
1. DEFLECTION NORMAL TO WALL PLANE: LIMITED TO EDGE OF GLASS IN A DIRECTION PERPENDICULAR TO GLASS PLANE SHALL NOT EXCEED 1/75 OF THE GLASS EDGE LENGTH FOR EACH INDIVIDUAL GLAZING LITE OR AN AMOUNT THAT RESTRICTS EDGE DEFLECTION OF INDIVIDUAL GLAZING LITES TO 3/4 INCH (19 MM), WHICHEVER IS LESS.
2. DEFLECTION PARALLEL TO GLAZING PLANE: LIMITED TO L360 OF CLEAR SPAN OR 1/8 INCH (3.2 MM), WHICHEVER IS SMALLER.
E. STRUCTURAL-TEST PERFORMANCE: PROVIDE ALUMINUM-FRAMED SYSTEMS TESTED ACCORDING TO ASTM E 330 AS FOLLOWS:
1. WHEN TESTED AT POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, SYSTEMS DO NOT EVIDENCE DEFLECTION EXCEEDING SPECIFIED LIMITS.
2. WHEN TESTED AT 150 PERCENT OF POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, SYSTEMS, INCLUDING ANCHORAGE, DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, AND PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT OF SPAN.
3. TEST DURATIONS: AS REQUIRED BY DESIGN WIND VELOCITY, BUT NOT FEWER THAN 10 SECONDS.
F. WINDBORNE-DEBRIS-IMPACT-RESISTANCE PERFORMANCE: PROVIDE ALUMINUM-FRAMED SYSTEMS THAT PASS MISSILE-IMPACT AND CYCLIC-PRESSURE TESTS WHEN TESTED ACCORDING TO ASCE-7 AND TESTING INFORMATION IN ASTM E 1996.
1. LARGE-MISSILE IMPACT: FOR ALUMINUM-FRAMED SYSTEMS LOCATED WITHIN 30 FEET (9.1 M) OF GRADE.
2. SMALL-MISSILE IMPACT: FOR ALUMINUM-FRAMED SYSTEMS LOCATED MORE THAN 30 FEET (9.1 M) ABOVE GRADE.
G. AIR INFILTRATION: PROVIDE ALUMINUM-FRAMED SYSTEMS WITH MAXIMUM AIR LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS OF 0.06 CFMSQ. FT. (0.03 LUS PER SQ. M) OF FIXED WALL AREA WHEN TESTED ACCORDING TO ASTM E 283 AT A MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 LBF/SQ. FT. (75 PA).
H. WATER PENETRATION UNDER STATIC PRESSURE: PROVIDE ALUMINUM-FRAMED SYSTEMS THAT DO NOT EVIDENCE WATER PENETRATION THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED ACCORDING TO ASTM E 331 AT A MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 6.24 LBF/SQ. FT. (300 PA).
I. WATER PENETRATION UNDER DYNAMIC PRESSURE: PROVIDE ALUMINUM-FRAMED SYSTEMS THAT DO NOT EVIDENCE WATER LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED ACCORDING TO AAMA 501.1 UNDER DYNAMIC PRESSURE EQUAL TO 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 6.24 LBF/SQ. FT. (300 PA).
1. MAXIMUM WATER LEAKAGE: NO UNCONTROLLED WATER PENETRATING ALUMINUM-FRAMED SYSTEMS OR WATER APPEARING ON SYSTEMS NORMALLY EXPOSED INTERIOR SURFACES FROM SOURCES OTHER THAN CONDENSATION. WATER LEAKAGE DOES NOT INCLUDE WATER CONTROLLED BY FLASHING AND GUTTERS THAT IS DRAINED TO EXTERIOR AND WATER THAT CANNOT DAMAGE ADJACENT MATERIALS OR FINISHES.
J. THERMAL MOVEMENTS: PROVIDE ALUMINUM-FRAMED SYSTEMS THAT ALLOW FOR THERMAL MOVEMENTS RESULTING FROM THE FOLLOWING MAXIMUM CHANGE (RANGE) IN AMBIENT AND SURFACE TEMPERATURES. BASE ENGINEERING CALCULATION ON SURFACE TEMPERATURES OF MATERIALS DUE TO BOTH SOLAR HEAT GAIN AND NIGHTTIME-SKY HEAT LOSS.
1. TEMPERATURE CHANGE (RANGE): 120 DEG F (67 DEG C), AMBIENT; 180 DEG F (100 DEG C), MATERIAL SURFACES.
2. TEST PERFORMANCE: NO BUCKLING, STRESS ON GLASS; SEALANT FAILURE; EXCESS STRESS ON FRAMING, ANCHORS, AND FASTENERS; OR REDUCTION OF PERFORMANCE WHEN TESTED ACCORDING TO AAMA 501.5.
a. HIGH EXTERIOR AMBIENT-AIR TEMPERATURE: THAT WHICH PRODUCES AN EXTERIOR METAL- SURFACE TEMPERATURE OF 180 DEG F (82 DEG C).
b. LOW EXTERIOR AMBIENT-AIR TEMPERATURE: 0 DEG F (MINUS 18 DEG C).
3. INTERIOR AMBIENT-AIR TEMPERATURE: 75 DEG F (24 DEG C).
K. CONDENSATION RESISTANCE: PROVIDE ALUMINUM-FRAMED SYSTEMS WITH FIXED GLAZING AND FRAMING AREAS HAVING CONDENSATION-RESISTANCE FACTOR (CRF) OF NOT LESS THAN 45 WHEN TESTED ACCORDING TO AAMA 1503.
L. THERMAL CONDUCTANCE: PROVIDE ALUMINUM-FRAMED SYSTEMS WITH FIXED GLAZING AND FRAMING AREAS HAVING AN AVERAGE U-FACTOR OF NOT MORE THAN 0.57 BTU/SQ. FT. X H X DEG F (3.23 W/SQ. M X K) WHEN TESTED ACCORDING TO AAMA 1503.
M. SOUND TRANSMISSION: PROVIDE ALUMINUM-FRAMED SYSTEMS WITH FIXED GLAZING AND FRAMING AREAS HAVING

THE FOLLOWING SOUND-TRANSMISSION CHARACTERISTICS:
1. SOUND TRANSMISSION CLASS (STC); MINIMUM 35 STC WHEN TESTED FOR LABORATORY SOUND TRANSMISSION LOSS ACCORDING TO ASTM E 90 AND DETERMINED BY ASTM E 413.
2. OUTDOOR-INDOOR TRANSMISSION CLASS (OITC); MINIMUM 34 OITC WHEN TESTED FOR LABORATORY SOUND TRANSMISSION LOSS ACCORDING TO ASTM E 90 AND DETERMINED BY ASTM E 1332.
N. STRUCTURAL SEALANT: CAPABLE OF WITHSTANDING TENSILE AND SHEAR STRESSES IMPOSED BY ALUMINUM-FRAMED SYSTEMS WITHOUT FAILING ADHESIVELY OR COHESIVELY. WHEN TESTED FOR PRECONSTRUCTION ADHESION AND COMPATIBILITY, COHESIVE FAILURE OF SEALANT SHALL OCCUR BEFORE ADHESIVE FAILURE.
1. ADHESIVE FAILURE OCCURS WHEN SEALANT PULLS AWAY FROM SUBSTRATE CLEANLY, LEAVING NO SEALANT MATERIAL BEHIND.
2. COHESIVE FAILURE OCCURS WHEN SEALANT BREAKS OR TEARS WITHIN ITSELF BUT DOES NOT SEPARATE FROM EACH SUBSTRATE BECAUSE SEALANT-TO-SUBSTRATE BOND STRENGTH EXCEEDS SEALANT'S INTERNAL STRENGTH.
O. STRUCTURAL-SEALANT JOINTS: DESIGNED TO PRODUCE TENSILE OR SHEAR STRESS OF LESS THAN 20 PSI (138 KPA).
1.5 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES FOR ALUMINUM-FRAMED SYSTEMS.
B. SHOP DRAWINGS: FOR ALUMINUM-FRAMED SYSTEMS. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
1. INCLUDE DETAILS OF PROVISIONS FOR SYSTEM EXPANSION AND CONTRACTION AND FOR DRAINAGE OF MOISTURE IN THE SYSTEM TO THE EXTERIOR.
2. FOR ENTRANCE DOORS, INCLUDE HARDWARE SCHEDULE AND INDICATE OPERATING HARDWARE TYPES, FUNCTIONS, QUANTITIES, AND LOCATIONS.
D. SAMPLES FOR INITIAL SELECTION: FOR UNITS WITH FACTORY-APPLIED COLOR FINISHES.
E. SAMPLES FOR VERIFICATION: FOR EACH TYPE OF EXPOSED FINISH REQUIRED, IN MANUFACTURER'S STANDARD SIZES.
F. FABRICATION SAMPLE: OF EACH VERTICAL-TO-HORIZONTAL INTERSECTION OF ALUMINUM-FRAMED SYSTEMS, MADE FROM 12-INCH (300-MM) LENGTHS OF FULL-SIZE COMPONENTS AND SHOWING DETAILS OF THE FOLLOWING:
1. JOINERY, INCLUDING CONCEALED WELDS.
2. ANCHORAGE.
3. EXPANSION PROVISIONS.
4. GLAZING.
5. FLASHING AND DRAINAGE.
G. OTHER ACTION SUBMITTALS:
1. ENTRANCE DOOR HARDWARE SCHEDULE: PREPARED BY OR UNDER THE SUPERVISION OF SUPPLIER, DETAILING FABRICATION AND ASSEMBLY OF ENTRANCE DOOR HARDWARE, AS WELL AS PROCEDURES AND DIAGRAMS. COORDINATE FINAL ENTRANCE DOOR HARDWARE SCHEDULE WITH DOORS, FRAMES, AND RELATED WORK TO ENSURE PROPER SIZE, THICKNESS, HAND, FUNCTION, AND FINISH OF ENTRANCE DOOR HARDWARE.
H. DELEGATED-DESIGN SUBMITTAL: FOR ALUMINUM-FRAMED SYSTEMS INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
1. DETAIL FABRICATION AND ASSEMBLY OF ALUMINUM-FRAMED SYSTEMS.
2. INCLUDE DESIGN CALCULATIONS.
1.6 INFORMATIONAL SUBMITTALS
A. QUALIFICATION DATA: FOR QUALIFIED INSTALLER AND TESTING AGENCY.
B. SEISMIC QUALIFICATION CERTIFICATES: FOR ALUMINUM-FRAMED SYSTEMS, ACCESSORIES, AND COMPONENTS, FROM MANUFACTURER.
1. BASIS FOR CERTIFICATION: INDICATE WHETHER WITHSTAND CERTIFICATION IS BASED ON ACTUAL TEST OF ASSEMBLED COMPONENTS OR ON CALCULATION.
C. WELDING CERTIFICATES.
D. PRECONSTRUCTION TEST REPORTS: FOR SEALANT.
E. PRODUCT TEST REPORTS: BASED ON EVALUATION OF COMPREHENSIVE TESTS PERFORMED BY A QUALIFIED TESTING AGENCY, FOR ALUMINUM-FRAMED SYSTEMS, INDICATING COMPLIANCE WITH PERFORMANCE REQUIREMENTS.
F. SOURCE QUALITY-CONTROL REPORTS.
G. QUALITY-CONTROL PROGRAM FOR STRUCTURAL-SEALANT-GLAZED SYSTEM: INCLUDE REPORTS.
H. FIELD QUALITY-CONTROL REPORTS.
I. WARRANTIES: SAMPLE OF SPECIAL WARRANTIES.
1.7 CLOSEOUT SUBMITTALS
A. MAINTENANCE DATA: FOR ALUMINUM-FRAMED SYSTEMS TO INCLUDE IN MAINTENANCE MANUALS.
1.8 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: MANUFACTURER'S AUTHORIZED REPRESENTATIVE WHO IS TRAINED AND APPROVED FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.
B. TESTING AGENCY QUALIFICATIONS: QUALIFIED ACCORDING TO ASTM E 699 FOR TESTING INDICATED.
C. ENGINEERING RESPONSIBILITY: PREPARE DATA FOR ALUMINUM-FRAMED SYSTEMS, INCLUDING SHOP DRAWINGS, BASED ON TESTING AND ENGINEERING ANALYSIS OF MANUFACTURER'S STANDARD UNITS IN SYSTEMS SIMILAR TO THOSE INDICATED FOR THIS PROJECT.
D. QUALITY-CONTROL PROGRAM FOR STRUCTURAL-SEALANT-GLAZED SYSTEM: DEVELOP QUALITY CONTROL PROGRAM SPECIFICALLY FOR PROJECT, DOCUMENT QUALITY-CONTROL PROCEDURES AND VERIFY RESULTS FOR ALUMINUM-FRAMED SYSTEMS. COMPLY WITH ASTM C 1401 RECOMMENDATIONS INCLUDING, BUT NOT LIMITED TO, SYSTEM MATERIAL QUALIFICATION PROCEDURES, PRECONSTRUCTION SEALANT-TESTING PROGRAM, PROCEDURES FOR SYSTEM FABRICATION AND INSTALLATION, AND INTERVALS OF REVIEWS AND CHECKS.
E. PRODUCT OPTIONS: INFORMATION ON DRAWINGS AND IN SPECIFICATIONS ESTABLISHES REQUIREMENTS FOR SYSTEMS' AESTHETIC EFFECTS AND PERFORMANCE CHARACTERISTICS. AESTHETIC EFFECTS ARE INDICATED BY DIMENSIONS, ARRANGEMENTS, ALIGNMENT, AND PROFILES OF COMPONENTS AND ASSEMBLIES AS THEY RELATE TO SIGHTLINES, TO ONE ANOTHER, AND TO ADJOINING CONSTRUCTION. PERFORMANCE CHARACTERISTICS ARE INDICATED BY CRITERIA SUBJECT TO VERIFICATION BY ONE OR MORE METHODS INCLUDING PRECONSTRUCTION TESTING, FIELD TESTING, AND IN-SERVICE PERFORMANCE.
1. DO NOT REVISE INTENDED AESTHETIC EFFECTS, AS JUDGED SOLELY BY ARCHITECT, EXCEPT WITH ARCHITECT'S APPROVAL. IF REVISIONS ARE PROPOSED, SUBMIT COMPREHENSIVE EXPLANATORY DATA TO ARCHITECT FOR REVIEW.
F. PRECONSTRUCTION SEALANT TESTING: FOR STRUCTURAL-SEALANT-GLAZED SYSTEMS, PERFORM SEALANT MANUFACTURER'S STANDARD TESTS FOR COMPATIBILITY WITH AND ADHESION OF EACH MATERIAL THAT WILL COME IN CONTACT WITH SEALANTS AND EACH CONDITION REQUIRED BY ALUMINUM-FRAMED SYSTEMS.
1. TEST A MINIMUM FIVE SAMPLES EACH OF METAL, GLAZING, AND OTHER MATERIAL.
2. PREPARE SAMPLES USING TECHNIQUES AND PRIMERS REQUIRED FOR INSTALLED SYSTEMS.
3. FOR MATERIALS THAT FAIL TESTS, DETERMINE CORRECTIVE MEASURES NECESSARY TO PREPARE EACH MATERIAL TO ENSURE COMPATIBILITY WITH AND ADHESION OF SEALANTS INCLUDING, BUT NOT LIMITED TO, SPECIALLY FORMULATED PRIMERS. AFTER PERFORMING THESE CORRECTIVE MEASURES ON THE MINIMUM NUMBER OF SAMPLES REQUIRED FOR EACH MATERIAL, RETEST MATERIALS.
G. ACCESSIBLE ENTRANCES: COMPLY WITH APPLICABLE PROVISIONS IN THE U.S. ARCHITECTURAL & TRANSPORTATION BARRIERS COMPLIANCE BOARD'S ADA-ABA ACCESSIBILITY GUIDELINES AND ICC/ANSI A117.1.
H. SOURCE LIMITATIONS FOR ALUMINUM-FRAMED SYSTEMS: OBTAIN FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
I. STRUCTURAL-SEALANT GLAZING: COMPLY WITH ASTM C 1401, "GUIDE FOR STRUCTURAL SEALANT GLAZING" FOR DESIGN AND INSTALLATION OF STRUCTURAL-SEALANT-GLAZED SYSTEMS.
J. STRUCTURAL-SEALANT JOINTS: DESIGN REVIEWED AND APPROVED BY STRUCTURAL-SEALANT MANUFACTURER.
K. WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.2, "STRUCTURAL WELDING CODE - ALUMINUM."
L. MOCKUPS: BUILD MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND TO DEMONSTRATE AESTHETIC EFFECTS AND SET QUALITY STANDARDS FOR FABRICATION AND INSTALLATION.
1. BUILD MOCKUP OF TYPICAL WALL AREA AS SHOWN ON DRAWINGS.
2. FIELD TESTING SHALL BE PERFORMED ON MOCKUPS ACCORDING TO REQUIREMENTS IN "FIELD QUALITY CONTROL" ARTICLE.
3. APPROVAL OF MOCKUPS DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM THE CONTRACT DOCUMENTS CONTAINED IN MOCKUPS UNLESS ARCHITECT SPECIFICALLY APPROVES SUCH DEVIATIONS IN WRITING.
4. APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK IF UNDISTURBED AT TIME OF SUBSTANTIAL COMPLETION.

宋
Song + Associates
Architecture • Planning • Interior Design
1545 Centrepark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482
AA - 0003165 IB - 0001095

Seal: 
Name: PERRY DOUGLASS
License #: AR 97112
Consultants:

Copyright © 2017 Song & Associates, Inc. All rights reserved. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION

School District of
Indian River County

SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND
ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions:
Date: 09/19/2018
S+A Project No.: 18033
Owner Project No.:
Drawn By: PD/WS
Checked By: PD
Phase: CONSTRUCTION DOCUMENTS

Sheet Title:
SPECIFICATIONS
Sheet #:
G-103

M. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE.

1.9 PROJECT CONDITIONS
A. FIELD MEASUREMENTS: VERIFY ACTUAL LOCATIONS OF STRUCTURAL SUPPORTS FOR ALUMINUM-FRAMED SYSTEMS BY FIELD MEASUREMENTS BEFORE FABRICATION AND INDICATE MEASUREMENTS ON SHOP DRAWINGS.

1.10 WARRANTY
A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF ALUMINUM-FRAMED SYSTEMS THAT DO NOT COMPLY WITH REQUIREMENTS OR THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. STRUCTURAL FAILURES INCLUDING, BUT NOT LIMITED TO, EXCESSIVE DEFLECTION.
b. NOISE OR VIBRATION CAUSED BY THERMAL MOVEMENTS.
c. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
d. ADHESIVE OR COHESIVE SEALANT FAILURES.
e. WATER LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS.
f. FAILURE OF OPERATING COMPONENTS.
2. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
B. SPECIAL FINISH WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS ON WHICH FINISHES DO NOT COMPLY WITH REQUIREMENTS OR THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY DOES NOT INCLUDE NORMAL WEATHERING.
1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

1.11 MAINTENANCE SERVICE
A. ENTRANCE DOOR HARDWARE:
1. MAINTENANCE TOOLS AND INSTRUCTIONS: FURNISH A COMPLETE SET OF SPECIALIZED TOOLS AND MAINTENANCE INSTRUCTIONS AS NEEDED FOR OWNER'S CONTINUED ADJUSTMENT, MAINTENANCE, AND REMOVAL AND REPLACEMENT OF ENTRANCE DOOR HARDWARE.
2. INITIAL MAINTENANCE SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, PROVIDE 12 MONTHS' FULL MAINTENANCE BY SKILLED EMPLOYEES OF ENTRANCE DOOR HARDWARE INSTALLER, INCLUDE QUARTERLY PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJUSTING AS REQUIRED FOR PROPER ENTRANCE DOOR HARDWARE OPERATION AT RATED SPEED AND CAPACITY. PROVIDE PARTS AND SUPPLIES THE SAME AS THOSE USED IN THE MANUFACTURE AND INSTALLATION OF ORIGINAL EQUIPMENT.
B. STRUCTURAL-SEALANT-GLAZED SYSTEMS:
1. INITIAL MAINTENANCE SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, PROVIDE 12 MONTHS' FULL MAINTENANCE BY SKILLED EMPLOYEES OF STRUCTURAL-SEALANT-GLAZED SYSTEM INSTALLER. INCLUDE QUARTERLY PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT TO ENSURE LONG-TERM PERFORMANCE AND DURABILITY OF STRUCTURAL-SEALANT-GLAZED SYSTEM AS REQUIRED FOR PROPER ENTRANCE DOOR HARDWARE OPERATION AT RATED SPEED AND CAPACITY. PROVIDE PARTS AND SUPPLIES THE SAME AS THOSE USED IN THE MANUFACTURE AND INSTALLATION OF ORIGINAL SYSTEM.
2. CONTINUING MAINTENANCE PROPOSAL: FROM INSTALLER TO OWNER, IN THE FORM OF A STANDARD YEARLY (OR OTHER PERIOD) MAINTENANCE AGREEMENT, STARTING ON DATE INITIAL MAINTENANCE SERVICE IS CONCLUDED. STATE SERVICES, OBLIGATIONS, CONDITIONS, AND TERMS FOR AGREEMENT PERIOD AND FOR FUTURE RENEWAL OPTIONS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. ARCADIA, INC.
2. ARCH ALUMINUM & GLASS CO., INC.
3. CMI ARCHITECTURALCOMMERCIAL ARCHITECTURAL PRODUCTS, INC.
4. EFCO CORPORATION.
5. KAWNEER NORTH AMERICA; AN ALCOA COMPANY.
6. LEED HIMMEL INDUSTRIES, INC.
7. PITCOO ARCHITECTURAL METALS, INC.
8. TRACO.
9. TUBELITE.
10. UNITED STATES ALUMINUM.
11. VISTAWALL ARCHITECTURAL PRODUCTS; THE VISTAWALL GROUP; A BLUESCOPE STEEL COMPANY.
12. YKK AP AMERICA INC.

2.2 MATERIALS
A. ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED.
1. SHEET AND PLATE: ASTM B 209 (ASTM B 209M).
2. EXTRUDED BARS, RODS, PROFILES, AND TUBES: ASTM B 221 (ASTM B 221M).
3. EXTRUDED STRUCTURAL PIPE AND TUBES: ASTM B 429.
4. STRUCTURAL PROFILES: ASTM B 308B 308M.
5. WELDING RODS AND BARE ELECTRODES: AWS A5.10/A5.10M.
B. STEEL REINFORCEMENT: MANUFACTURER'S STANDARD ZINC-RICH, CORROSION-RESISTANT PRIMER, COMPLYING WITH SSPC-PS GUIDE NO. 12.00; APPLIED IMMEDIATELY AFTER SURFACE PREPARATION AND PRETREATMENT. SELECT SURFACE PREPARATION METHODS ACCORDING TO RECOMMENDATIONS IN SSPC- SP COM AND PREPARE SURFACES ACCORDING TO APPLICABLE SSPC STANDARD.
1. STRUCTURAL SHAPES, PLATES, AND BARS: ASTM A 36/A 36M.
2. COLD-ROLLED SHEET AND STRIP: ASTM A 1008/A 1008M.
3. HOT-ROLLED SHEET AND STRIP: ASTM A 1011/A 1011M.

2.3 FRAMING SYSTEMS
A. FRAMING MEMBERS: MANUFACTURER'S STANDARD EXTRUDED-ALUMINUM FRAMING MEMBERS OF THICKNESS REQUIRED AND REINFORCED AS REQUIRED TO SUPPORT IMPOSED LOADS.
1. CONSTRUCTION: THERMALLY IMPROVED.
2. GLAZING SYSTEM: RETAINED MECHANICALLY WITH GASKETS ON FOUR SIDES.
3. GLAZING PLANE: FRONT.
B. BRACKETS AND REINFORCEMENTS: MANUFACTURER'S STANDARD HIGH-STRENGTH ALUMINUM WITH NONSTAINING, NONFERROUS SHIMS FOR ALIGNING SYSTEM COMPONENTS.
C. FASTENERS AND ACCESSORIES: MANUFACTURER'S STANDARD CORROSION-RESISTANT, NONSTAINING, NONBLEEDING FASTENERS AND ACCESSORIES COMPATIBLE WITH ADJACENT MATERIALS.
1. USE SELF-LOCKING DEVICES WHERE FASTENERS ARE SUBJECT TO LOOSENING OR TURNING OUT FROM THERMAL AND STRUCTURAL MOVEMENTS, WIND LOADS, OR VIBRATION.
2. REINFORCE MEMBERS AS REQUIRED TO RECEIVE FASTENER THREADS.
3. USE EXPOSED FASTENERS WITH COUNTERSUNK PHILLIPS SCREW HEADS, FINISHED TO MATCH FRAMING SYSTEM, FABRICATED FROM STAINLESS STEEL.
D. CONCRETE AND MASONRY INSERTS: HOT-DIP GALVANIZED CAST-IRON, MALLEABLE-IRON, OR STEEL INSERTS, COMPLYING WITH ASTM A 123/A 123M OR ASTM A 153/A 153M.
E. CONCEALED FLASHING: MANUFACTURER'S STANDARD CORROSION-RESISTANT, NONSTAINING, NONBLEEDING FLASHING COMPATIBLE WITH ADJACENT MATERIALS.
F. FRAMING SYSTEM GASKETS AND SEALANTS: MANUFACTURER'S STANDARD, RECOMMENDED BY MANUFACTURER FOR JOINT TYPE.
1. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL HAVE A VOC CONTENT OF 250 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
2. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS.*

2.4 GLAZING SYSTEMS
A. GLAZING: AS SPECIFIED IN SECTION 088000 "GLAZING."
B. GLAZING GASKETS: MANUFACTURER'S STANDARD COMPRESSION TYPES, REPLACEABLE, MOLDED OR

EXTRUDED, OF PROFILE AND HARDNESS REQUIRED TO MAINTAIN WATERTIGHT SEAL.
C. SPACERS AND SETTING BLOCKS: MANUFACTURER'S STANDARD ELASTOMERIC TYPE.
D. BOND-BREAKER TAPE: MANUFACTURER'S STANDARD TFE-FLUOROCARBON OR POLYETHYLENE MATERIAL TO WHICH SEALANTS WILL NOT DEVELOP ADHESION.
E. GLAZING SEALANTS: FOR STRUCTURAL-SEALANT-GLAZED SYSTEMS, AS RECOMMENDED BY MANUFACTURER FOR JOINT TYPE, AND AS FOLLOWS:
1. STRUCTURAL SEALANT: ASTM C 1184, SINGLE-COMPONENT NEUTRAL-CURING SILICONE FORMULATION THAT IS COMPATIBLE WITH SYSTEM COMPONENTS WITH WHICH IT COMES IN CONTACT, SPECIFICALLY FORMULATED AND TESTED FOR USE AS STRUCTURAL SEALANT AND APPROVED BY A STRUCTURAL-SEALANT MANUFACTURER FOR USE IN ALUMINUM-FRAMED SYSTEMS INDICATED.
a. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL HAVE A VOC CONTENT OF 100 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
b. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS.*
c. COLOR: BLACK.
2. WEATHERSEAL SEALANT: ASTM C 920 FOR TYPE S, GRADE NS, CLASS 25, USES NT, G, A, AND O; SINGLE-COMPONENT NEUTRAL-CURING FORMULATION THAT IS COMPATIBLE WITH STRUCTURAL SEALANT AND OTHER SYSTEM COMPONENTS WITH WHICH IT COMES IN CONTACT; RECOMMENDED BY STRUCTURAL-SEALANT, WEATHERSEAL-SEALANT, AND ALUMINUM-FRAMED-SYSTEM MANUFACTURERS FOR THIS USE.
a. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL HAVE A VOC CONTENT OF 250 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
b. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS.*
c. COLOR: MATCHING STRUCTURAL SEALANT.

2.5 ENTRANCE DOOR SYSTEMS
A. ENTRANCE DOORS: MANUFACTURER'S STANDARD GLAZED ENTRANCE DOORS FOR MANUAL-SWING OPERATION.
1. DOOR CONSTRUCTION: 1-3/4-INCH (44.5-MM) OVERALL THICKNESS, WITH MINIMUM 0.125-INCH- (3.2-MM) THICK, EXTRUDED-ALUMINUM TUBULAR RAIL AND STILE MEMBERS, MECHANICALLY FASTEN CORNERS WITH REINFORCING BRACKETS THAT ARE DEEPLY PENETRATED AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE RODS.
a. THERMAL CONSTRUCTION: HIGH-PERFORMANCE PLASTIC CONNECTORS SEPARATE ALUMINUM MEMBERS EXPOSED TO THE EXTERIOR FROM MEMBERS EXPOSED TO THE INTERIOR.
2. DOOR DESIGN: MEDIUM STILE: 3-1/2-INCH (88.9-MM) NOMINAL WIDTH.
a. ACCESSIBLE DOORS: SMOOTH SURFACED FOR WIDTH OF DOOR IN AREA WITHIN 10 INCHES (255 MM) ABOVE FLOOR OR GROUND PLANE.
3. GLAZING STOPS AND GASKETS: BEVELED, SNAP-ON, EXTRUDED-ALUMINUM STOPS AND PREFORMED GASKETS.
a. PROVIDE NONREMOVABLE GLAZING STOPS ON OUTSIDE OF DOOR.
B. ENTRANCE DOOR HARDWARE: AS SPECIFIED IN SECTION 087100 "DOOR HARDWARE."

2.6 ENTRANCE DOOR HARDWARE
A. GENERAL: PROVIDE ENTRANCE DOOR HARDWARE FOR EACH ENTRANCE DOOR TO COMPLY WITH REQUIREMENTS IN THIS SECTION.
1. ENTRANCE DOOR HARDWARE SETS: PROVIDE QUANTITY, ITEM, SIZE, FINISH OR COLOR INDICATED, AND PRODUCTS COMPLYING WITH BHMA STANDARD REFERENCED.
2. SEQUENCE OF OPERATION: PROVIDE ELECTRIFIED DOOR HARDWARE FUNCTION, SEQUENCE OF OPERATION, AND INTERFACE WITH OTHER BUILDING CONTROL SYSTEMS INDICATED.
3. OPENING-FORCE REQUIREMENTS:
a. EGRESS DOORS: NOT MORE THAN 15 LBF (67 N) TO RELEASE THE LATCH AND NOT MORE THAN 30 LBF (133 N) TO SET THE DOOR IN MOTION AND NOT MORE THAN 15 LBF (67 N) TO OPEN THE DOOR TO ITS MINIMUM REQUIRED WIDTH.
b. ACCESSIBLE INTERIOR DOORS: NOT MORE THAN 5 LBF (22.2 N) TO FULLY OPEN DOOR.
B. DESIGNATIONS: REQUIREMENTS FOR DESIGN, GRADE, FUNCTION, FINISH, SIZE, AND OTHER DISTINCTIVE QUALITIES OF EACH TYPE OF ENTRANCE DOOR HARDWARE ARE INDICATED IN "ENTRANCE DOOR HARDWARE SETS" ARTICLE. PRODUCTS ARE IDENTIFIED BY USING ENTRANCE DOOR HARDWARE DESIGNATIONS AS FOLLOWS:
1. NAMED MANUFACTURERS' PRODUCTS: MANUFACTURER AND PRODUCT DESIGNATION ARE LISTED FOR EACH DOOR HARDWARE TYPE REQUIRED FOR THE PURPOSE OF ESTABLISHING MINIMUM REQUIREMENTS. MANUFACTURERS' NAMES ARE ABBREVIATED IN "ENTRANCE DOOR HARDWARE SETS" ARTICLE.
2. REFERENCES TO BHMA STANDARDS: PROVIDE PRODUCTS COMPLYING WITH THESE STANDARDS AND REQUIREMENTS FOR DESCRIPTION, QUALITY, AND FUNCTION.
C. OPENING-FORCE REQUIREMENTS:
1. DELAYED-EGRESS LOCKS: LOCK RELEASES WITHIN 15 SECONDS AFTER APPLYING A FORCE OF NOT MORE THAN 15 LBF (67 N) FOR NOT MORE THAN 3 SECONDS.
2. LATCHES AND EXIT DEVICES: NOT MORE THAN 15 LBF (67 N) REQUIRED TO RELEASE LATCH.
D. PIVOT HINGES: BHMA A156.4, GRADE 1.
1. OFFSET-PIVOT HINGES: PROVIDE TOP, BOTTOM, AND INTERMEDIATE OFFSET PIVOTS AT EACH DOOR LEAF.
E. BUTT HINGES: BHMA A156.1, GRADE 1, RADIUS CORNER.
1. NONREMOVABLE PINS: PROVIDE SET SCREW IN HINGE BARREL THAT, WHEN TIGHTENED INTO A GROOVE IN HINGE PIN, PREVENTS REMOVAL OF PIN WHILE ENTRANCE DOOR IS CLOSED.
2. EXTERIOR HINGES: STAINLESS STEEL, WITH STAINLESS-STEEL PIN.
3. QUANTITIES:
a. FOR DOORS UP TO 87 INCHES (2210 MM) HIGH, PROVIDE 3 HINGES PER LEAF.
b. FOR DOORS MORE THAN 87 AND UP TO 120 INCHES (2210 AND UP TO 3048 MM) HIGH, PROVIDE 4 HINGES PER LEAF.
F. CONTINUOUS-GEAR HINGES: MANUFACTURER'S STANDARD WITH STAINLESS-STEEL BEARINGS BETWEEN KNUCKLES; FABRICATED TO FULL HEIGHT OF DOOR AND FRAME.
G. MORTISE AUXILIARY LOCKS: BHMA A156.5, GRADE 1.
H. MANUAL FLUSH BOLTS: BHMA A156.16, GRADE 1.
I. AUTOMATIC AND SELF-LATCHING FLUSH BOLTS: BHMA A156.3, GRADE 1.
J. PANIC EXIT DEVICES:
J.1. PROVIDE VON DUPRIN 99 RIM DEVICE.
J.2. BHMA A156.3, GRADE 1, LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR PANIC PROTECTION, BASED ON TESTING ACCORDING TO UL 305.
K. CYLINDERS: BHMA A156.5, GRADE 1.
1. PROVIDE CORBIN RUSSWIN 6-PIN.
2. KEYING: MASTER KEY SYSTEM. PERMANENTLY INSCRIBE EACH KEY WITH A VISUAL KEY CONTROL NUMBER AND INCLUDE NOTATION "DO NOT DUPLICATE".
L. STRIKES: PROVIDE STRIKE WITH BLACK-PLASTIC DUST BOX FOR EACH LATCH OR LOCK BOLT; FABRICATED FOR ALUMINUM FRAMING.
M. OPERATING TRIM: BHMA A156.6.
N. CLOSERS: BHMA A156.4, GRADE 1, WITH ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION, SIZED AS REQUIRED BY DOOR SIZE, EXPOSURE TO WEATHER, AND ANTICIPATED FREQUENCY OF USE; ADJUSTABLE TO MEET FIELD CONDITIONS AND REQUIREMENTS FOR OPENING FORCE.
O. SURFACE-MOUNTED HOLDERS: BHMA A156.16, GRADE 1.
P. DOOR STOPS: BHMA A156.16, GRADE 1, FLOOR OR WALL MOUNTED, AS APPROPRIATE FOR DOOR LOCATION INDICATED, WITH INTEGRAL RUBBER BUMPER.
Q. WEATHER STRIPPING: MANUFACTURER'S STANDARD REPLACEABLE COMPONENTS.
1. COMPRESSION TYPE: MADE OF ASTM D 2000, MOLDED NEOPRENE, OR ASTM D 2287, MOLDED PVC.
2. SLIDING TYPE: AAMA 701, MADE OF WOOL, POLYPROPYLENE, OR NYLON WOVEN PILE WITH NYLON-FABRIC OR ALUMINUM-STRIP BACKING.
R. WEATHER SWEEPS: MANUFACTURER'S STANDARD EXTERIOR-DOOR BOTTOM SWEEP WITH CONCEALED FASTENERS ON MOUNTING STRIP.
S. SILENCERS: BHMA A156.16, GRADE 1.
T. THRESHOLDS: BHMA A156.21, RAISED THRESHOLDS BEVELED WITH A SLOPE OF NOT MORE THAN 1:2, WITH MAXIMUM HEIGHT OF 1/2 INCH (13 MM).
U. FINGER GUARDS: MANUFACTURER'S STANDARD COLLAPSIBLE NEOPRENE OR PVC GASKET ANCHORED TO FRAME HINGE-JAMB AT CENTER-PIVOTED DOORS.

2.7 ACCESSORY MATERIALS
A. JOINT SEALANTS: FOR INSTALLATION AT PERIMETER OF ALUMINUM-FRAMED SYSTEMS, AS SPECIFIED IN SECTION 079200 "JOINT SEALANTS."
1. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL HAVE A VOC CONTENT OF 250 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
2. SEALANTS USED INSIDE THE WEATHERPROOFING SYSTEM SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS.*
B. BITUMINOUS PAINT: COLD-APPLIED, ASPHALT-MASTIC PAINT COMPLYING WITH SSPC-PAINT 12 REQUIREMENTS EXCEPT CONTAINING NO ASBESTOS; FORMULATED FOR 30-MIL (0.762-MM) THICKNESS PER COAT.

2.8 FABRICATION
A. FORM OR EXTRUDE ALUMINUM SHAPES BEFORE FINISHING.
B. WELD IN CONCEALED LOCATIONS TO GREATEST EXTENT POSSIBLE TO MINIMIZE DISTORTION OR DISCOLORATION OF FINISH. REMOVE WELD SPATTER AND WELDING OXIDES FROM EXPOSED SURFACES BY DESCALING OR GRINDING.
C. FRAMING MEMBERS, GENERAL: FABRICATE COMPONENTS THAT, WHEN ASSEMBLED, HAVE THE FOLLOWING CHARACTERISTICS:
1. PROFILES THAT ARE SHARP, STRAIGHT, AND FREE OF DEFECTS OR DEFORMATIONS.
2. ACCURATELY FITTED JOINTS WITH ENDS COPEDED OR MITERED.
3. MEANS TO DRAIN WATER PASSING JOINTS, CONDENSATION WITHIN FRAMING MEMBERS, AND MOISTURE MIGRATING WITHIN THE SYSTEM TO EXTERIOR.
4. PHYSICAL AND THERMAL ISOLATION OF GLAZING FROM FRAMING MEMBERS.
5. ACCOMMODATIONS FOR THERMAL AND MECHANICAL MOVEMENTS OF GLAZING AND FRAMING TO MAINTAIN REQUIRED GLAZING EDGE CLEARANCES.
6. PROVISIONS FOR FIELD REPLACEMENT OF GLAZING FROM INTERIOR.
7. FASTENERS, ANCHORS, AND CONNECTION DEVICES THAT ARE CONCEALED FROM VIEW TO GREATEST EXTENT POSSIBLE.
D. MECHANICALLY GLAZED FRAMING MEMBERS: FABRICATE FOR FLUSH GLAZING WITHOUT PROJECTING STOPS.
E. STRUCTURAL-SEALANT-GLAZED FRAMING MEMBERS: INCLUDE ACCOMMODATIONS FOR USING TEMPORARY SUPPORT DEVICE TO RETAIN GLAZING IN PLACE WHILE STRUCTURAL SEALANT CURES.
F. STOREFRONT FRAMING: FABRICATE COMPONENTS FOR ASSEMBLY USING HEAD-AND-SILL-RECEPTOR SYSTEM WITH SHEAR BLOCKS AT INTERMEDIATE HORIZONTAL MEMBERS.
G. ENTRANCE DOOR FRAMES: REINFORCE AS REQUIRED TO SUPPORT LOADS IMPOSED BY DOOR OPERATION AND FOR INSTALLING ENTRANCE DOOR HARDWARE.
1. AT EXTERIOR DOORS, PROVIDE COMPRESSION WEATHER STRIPPING AT FIXED STOPS.
2. AT INTERIOR DOORS, PROVIDE SILENCERS AT STOPS TO PREVENT METAL-TO-METAL CONTACT. INSTALL THREE SILENCERS ON STRIKE JAMB OF SINGLE-DOOR FRAMES AND TWO SILENCERS ON HEAD OF FRAMES FOR PAIRS OF DOORS.
H. ENTRANCE DOORS: REINFORCE DOORS AS REQUIRED FOR INSTALLING ENTRANCE DOOR HARDWARE.
1. AT PAIRS OF EXTERIOR DOORS, PROVIDE SLIDING-TYPE WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP AND MORTISED INTO DOOR EDGE.
2. AT EXTERIOR DOORS, PROVIDE WEATHER SWEEPS APPLIED TO DOOR BOTTOMS.
I. ENTRANCE DOOR HARDWARE INSTALLATION: FACTORY INSTALL ENTRANCE DOOR HARDWARE TO THE GREATEST EXTENT POSSIBLE. CUT, DRILL, AND TAP FOR FACTORY-INSTALLED ENTRANCE DOOR HARDWARE BEFORE APPLYING FINISHES.
J. AFTER FABRICATION, CLEARLY MARK COMPONENTS TO IDENTIFY THEIR LOCATIONS IN PROJECT ACCORDING TO SHOP DRAWINGS.

2.9 ALUMINUM FINISHES
A. COLOR ANODIC FINISH: AAMA 611, AA-M12C22A42J44, CLASS 1, 0.018 MM OR THICKER.
1. COLOR: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS AND COLOR DENSITIES.
2.10 SOURCE QUALITY CONTROL
A. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO EVALUATE STRUCTURAL-SEALANT-GLAZED SYSTEMS.
B. STRUCTURAL-SEALANT-GLAZED SYSTEMS: PERFORM QUALITY-CONTROL PROCEDURES COMPLYING WITH ASTM C 1401 RECOMMENDATIONS, INCLUDING, BUT NOT LIMITED TO, SYSTEM MATERIAL-QUALIFICATION PROCEDURES, SEALANT TESTING, AND SYSTEM FABRICATION REVIEWS AND CHECKS.
C. STRUCTURAL-SEALANT-GLAZED SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
D. PREPARE TEST AND INSPECTION REPORTS.

2.11 ENTRANCE DOOR HARDWARE SETS
A. COLOR ANODIC FINISH: AAMA 611, AA-M12C22A42J44, CLASS 1, 0.018 MM OR THICKER.
1. COLOR: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS AND COLOR DENSITIES.
2.10 SOURCE QUALITY CONTROL
A. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO EVALUATE STRUCTURAL-SEALANT-GLAZED SYSTEMS.
B. STRUCTURAL-SEALANT-GLAZED SYSTEMS: PERFORM QUALITY-CONTROL PROCEDURES COMPLYING WITH ASTM C 1401 RECOMMENDATIONS, INCLUDING, BUT NOT LIMITED TO, SYSTEM MATERIAL-QUALIFICATION PROCEDURES, SEALANT TESTING, AND SYSTEM FABRICATION REVIEWS AND CHECKS.
C. STRUCTURAL-SEALANT-GLAZED SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
D. PREPARE TEST AND INSPECTION REPORTS.

2.10 SOURCE QUALITY CONTROL
A. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO EVALUATE STRUCTURAL-SEALANT-GLAZED SYSTEMS.
B. STRUCTURAL-SEALANT-GLAZED SYSTEMS: PERFORM QUALITY-CONTROL PROCEDURES COMPLYING WITH ASTM C 1401 RECOMMENDATIONS, INCLUDING, BUT NOT LIMITED TO, SYSTEM MATERIAL-QUALIFICATION PROCEDURES, SEALANT TESTING, AND SYSTEM FABRICATION REVIEWS AND CHECKS.
C. STRUCTURAL-SEALANT-GLAZED SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
D. PREPARE TEST AND INSPECTION REPORTS.

PART 3 - EXECUTION

3.1 EXAMINATION
A. EXAMINE AREAS AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION
A. GENERAL:
1. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. DO NOT INSTALL DAMAGED COMPONENTS.
3. FIT JOINTS TO PRODUCE HAIRLINE JOINTS FREE OF BURRS AND DISTORTION.
4. RIGIDLY SECURE NONMOVEMENT JOINTS.
5. INSTALL ANCHORS WITH SEPARATORS AND ISOLATORS TO PREVENT METAL CORROSION AND ELECTROLYTIC DETERIORATION.
6. SEAL JOINTS WATERTIGHT UNLESS OTHERWISE INDICATED.
B. METAL PROTECTION:
1. WHERE ALUMINUM WILL CONTACT DISSIMILAR METALS, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH PRIMER OR APPLYING SEALANT OR TAPE, OR BY INSTALLING NONCONDUCTIVE SPACERS AS RECOMMENDED BY MANUFACTURER FOR THIS PURPOSE.
2. WHERE ALUMINUM WILL CONTACT CONCRETE OR MASONRY, PROTECT AGAINST CORROSION BY PAINTING CONTACT SURFACES WITH BITUMINOUS PAINT.
C. INSTALL COMPONENTS TO DRAIN WATER PASSING JOINTS, CONDENSATION OCCURRING WITHIN FRAMING MEMBERS, AND MOISTURE MIGRATING WITHIN THE SYSTEM TO EXTERIOR.
D. SET CONTINUOUS SILL MEMBERS AND FLASHING IN FULL SEALANT BED AS SPECIFIED IN SECTION 079200 "JOINT SEALANTS" TO PRODUCE WEATHERTIGHT INSTALLATION.
E. INSTALL COMPONENTS PLUMB AND TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES, AND WITHOUT WARP OR RACK.
F. INSTALL GLAZING AS SPECIFIED IN SECTION 088000 "GLAZING."
1. STRUCTURAL-SEALANT GLAZING:
a. PREPARE SURFACES THAT WILL CONTACT STRUCTURAL SEALANT ACCORDING TO SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE COMPATIBILITY AND ADHESION. PREPARATION INCLUDES, BUT IS NOT LIMITED TO, CLEANING AND PRIMING SURFACES.
b. INSTALL WEATHERSEAL SEALANT ACCORDING TO SECTION 079200 "JOINT SEALANTS" AND ACCORDING TO SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS TO PRODUCE WEATHERPROOF JOINTS. INSTALL JOINT FILLER BEHIND SEALANT AS RECOMMENDED BY SEALANT MANUFACTURER.
G. ENTRANCE DOORS: INSTALL DOORS TO PRODUCE SMOOTH OPERATION AND TIGHT FIT AT CONTACT POINTS.
1. EXTERIOR DOORS: INSTALL TO PRODUCE WEATHERTIGHT ENCLOSURE AND TIGHT FIT AT WEATHER STRIPPING.
2. FIELD-INSTALLED ENTRANCE DOOR HARDWARE: INSTALL SURFACE-MOUNTED ENTRANCE DOOR HARDWARE ACCORDING TO ENTRANCE DOOR HARDWARE MANUFACTURERS' WRITTEN INSTRUCTIONS USING CONCEALED FASTENERS TO GREATEST EXTENT POSSIBLE.
H. INSTALL PERIMETER JOINT SEALANTS AS SPECIFIED IN SECTION 079200 "JOINT SEALANTS" TO PRODUCE WEATHERTIGHT INSTALLATION.

3.3 ERECTION TOLERANCES
A. INSTALL ALUMINUM-FRAMED SYSTEMS TO COMPLY WITH THE FOLLOWING MAXIMUM ERECTION TOLERANCES:
1. LOCATION AND PLANE: LIMIT VARIATION FROM TRUE LOCATION AND PLANE TO 1/8 INCH IN 12 FEET (3 MM IN 3.7 M); 1/4 INCH (6 MM) OVER TOTAL LENGTH.
2. ALIGNMENT:
a. WHERE SURFACES ABUT IN LINE, LIMIT OFFSET FROM TRUE ALIGNMENT TO 1/16 INCH (1.5 MM).
b. WHERE SURFACES MEET AT CORNERS, LIMIT OFFSET FROM TRUE ALIGNMENT TO 1/32 INCH (0.8 MM).
B. DIAGONAL MEASUREMENTS: LIMIT DIFFERENCE BETWEEN DIAGONAL MEASUREMENTS TO 1/8 INCH (3 MM).

3.4 FIELD QUALITY CONTROL
A. TESTING AGENCY: ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS.
B. TESTING SERVICES: TESTING AND INSPECTING OF REPRESENTATIVE AREAS TO DETERMINE COMPLIANCE OF INSTALLED SYSTEMS WITH SPECIFIED REQUIREMENTS SHALL TAKE PLACE AS FOLLOWS AND IN SUCCESSIVE PHASES AS INDICATED ON DRAWINGS. DO NOT PROCEED WITH INSTALLATION OF THE NEXT AREA UNTIL TEST RESULTS FOR PREVIOUSLY COMPLETED AREAS SHOW COMPLIANCE WITH REQUIREMENTS.
1. STRUCTURAL-SEALANT COMPATIBILITY AND ADHESION: STRUCTURAL SEALANT SHALL BE TESTED ACCORDING TO RECOMMENDATIONS IN ASTM C 1401.
a. DESTRUCTIVE TEST METHOD A, "HAND PULL TAB (DESTRUCTIVE)," IN ASTM C 1401, APPENDIX X2, SHALL BE USED.
1) A MINIMUM OF TWO AREAS ON EACH BUILDING FACE SHALL BE TESTED.
2) REPAIR INSTALLATION AREAS DAMAGED BY TESTING.
2. STRUCTURAL-SEALANT GLAZING INSPECTION: AFTER INSTALLATION OF ALUMINUM-FRAMED SYSTEMS IS COMPLETE, STRUCTURAL-SEALANT GLAZING SHALL BE INSPECTED AND EVALUATED ACCORDING TO RECOMMENDATIONS IN ASTM C 1401.
3. AIR INFILTRATION: AREAS SHALL BE TESTED FOR AIR LEAKAGE OF 1.5 TIMES THE RATE SPECIFIED FOR LABORATORY TESTING UNDER "PERFORMANCE REQUIREMENTS" ARTICLE, BUT NOT MORE THAN 0.09 CFM/SQ. FT. (0.03 L/S PER SQ. M) OF FIXED WALL AREA WHEN TESTED ACCORDING TO ASTM E 783 AT A MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 LBF/SQ. FT. (75 PA).
4. WATER PENETRATION: AREAS SHALL BE TESTED ACCORDING TO ASTM E 1105 AT A MINIMUM UNIFORM AND CYCLIC STATIC-AIR-PRESSURE DIFFERENCE OF 4.67 TIMES THE STATIC-AIR-PRESSURE DIFFERENCE SPECIFIED FOR LABORATORY TESTING UNDER "PERFORMANCE REQUIREMENTS" ARTICLE, BUT NOT LESS THAN 4.18 LBF/SQ. FT. (200 PA), AND SHALL NOT EVIDENCE WATER PENETRATION.
5. WATER SPRAY TEST: BEFORE INSTALLATION OF INTERIOR FINISHES HAS BEGUN, A MINIMUM AREA OF 75 FEET (23 M) BY 1 STORY OF ALUMINUM-FRAMED SYSTEMS DESIGNATED BY ARCHITECT SHALL BE TESTED ACCORDING TO AAMA 501.2 AND SHALL NOT EVIDENCE WATER PENETRATION.
C. REPAIR OR REMOVE WORK IF TEST RESULTS AND INSPECTIONS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.
D. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
E. ALUMINUM-FRAMED ASSEMBLIES WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.
F. PREPARE TEST AND INSPECTION REPORTS.

3.5 ADJUSTING
A. ADJUST OPERATING ENTRANCE DOOR HARDWARE TO FUNCTION SMOOTHLY AS RECOMMENDED BY MANUFACTURER.
1. FOR ENTRANCE DOORS ACCESSIBLE TO PEOPLE WITH DISABILITIES, ADJUST CLOSERS TO PROVIDE A 3- SECOND CLOSER SWEEP PERIOD FOR DOORS TO MOVE FROM A 70-DEGREE OPEN POSITION TO 3 INCHES (75 MM) FROM THE LATCH, MEASURED TO THE LEADING DOOR EDGE.

3.6 ENTRANCE DOOR HARDWARE SETS
DOOR HARDWARE:
a. (2) PAIRS OF MORTISE BUT HINGES PER LEAF. BALL BEARING 4 1/2" X 4" BRASS US26D FINISH
b. (1) ADAMS RITE MS1850 THREE POINT HOOK-BOLT LOCK ON ACTIVE LEAF OR SINGLE DOOR (1) ADAMS RITE TWO POINT LOCK ON INACTIVE LEAF.
c. CORBIN RUSSWIN 6-PIN MASTER RING KEYING SYSTEMS CYLINDER
d. VON DUPRIN 99 RIM PANIC DEVICE.
e. LCN 4040 SURFACE MOUNTED CLOSER (HOLD OPEN OPTIONAL).
f. INCLUDE ANY ADDITIONAL ITEMS NECESSARY FOR A COMPLETE WORKING SYSTEM AS SPECIFIED.
g. PROVIDE ADDITIONAL REQUIREMENTS AND SEQUENCE OF OPERATION IN ENTRANCE DOOR HARDWARE SET ABOVE FOR ELECTRIFIED ENTRANCE DOOR HARDWARE. COORDINATE WITH VILLAGE OF WELLINGTON.

END OF SECTION 084113

Song + Associates
Architecture • Planning • Interior Design
1545 Centrepark Drive North West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482
AA - 0003165 IB - 0001095

Seal: PERRY DOUGLASS
Name: PERRY DOUGLASS
License #: AR 97112
Consultants:

Copyright © 2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. THIS DRAWING AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF SONG & ASSOCIATES, INC. NEITHER THE PROJECT FOR WHICH THEY WERE PREPARED IS ENDORSED OR NOT. THEY ARE NOT TO BE USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING WITH THE APPROPRIATE COMPENSATION TO SONG & ASSOCIATES, INC. REPRODUCTION OF DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF SONG & ASSOCIATES, INC. IS PROHIBITED.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION
School District of Indian River County

SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR. SEBASTIAN, FL 32958

Revisions:
Date: 09/19/2018
S+A Project No.: 18033
Owner Project No.:
Drawn By: PD/WS
Checked By: PD
Phase: CONSTRUCTION DOCUMENTS

SPECIFICATIONS

Sheet #: G-104

GENERAL STRUCTURAL NOTES

- GENERAL**
- The Structural Drawings shall be read in conjunction with the other Contract Documents which include, but are not limited to, Architectural, Site, Civil, Electrical and Mechanical Drawings, and the Specifications. Report any discrepancies between Contract Documents to the Architect before proceeding.
 - These general notes are to be read in conjunction with the notes on other structural drawings.
 - All work shall be in accordance with the 2017 Florida Building Code, FBC.
 - All referenced standards and codes shall be as listed in the Florida Building Code 2017.
 - The structure has been designed for the in-service loads only. The methods, procedures, and sequences of construction are the responsibility of the Contractor. The Contractor shall provide and maintain all temporary systems to ensure the integrity of the structure at all stages of construction. All work shall be performed without damage to adjacent existing work.
 - Refer items on the structural drawings requiring clarifications to the Architect and Structural Engineer. Do NOT use scaled dimensions. In case of a discrepancy between dimensions and/or details on the contract documents, relating to new or existing construction, please notify the Architect and Engineer before proceeding.
 - Cover no work until the appropriate inspection has been completed.

COORDINATION WITH OTHER TRADES

- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field, and report any errors or discrepancies to the Structural Engineer prior to the fabrication and erection of any new members. The contractor has the responsibility for the correctness and fit of the new parts to the old part.
- The Contractor shall coordinate and check all dimensions relating to architectural finishes, structural framing, mechanical openings, equipment, etc. The Structural Engineer and Architect shall be notified of any discrepancies before proceeding with work in any area under question.

REINFORCING STEEL

- Reinforcing bar detailing, fabricating, and placing shall conform to the latest edition of the following standards: Specifications for Structural Concrete for Buildings (ACI 301), ACI Detailing Manual (SP66) The latest editions of Concrete Reinforcing Steel Institute's Reinforcing Bar Detailing and Placing Reinforcing Bars may also be used.
 - Reinforcing steel shall be deformed bars of new billet steel conforming to ASTM A615 and shall have a minimum yield strength of 60,000 psi.
 - Provide specified bar chairs and spacers as required to maintain concrete protection specified.
 - Reinforcement bars shall not be tack welded, welded, heated or cut unless indicated on the contract documents or approved by the Structural Engineer. Reinforcing steel shall not be field bent.
 - Welded wire fabric shall be smooth wire fabric conforming to ASTM A185 unless otherwise noted. Welded wire fabric in slabs on grade shall be placed 2 inches down from the top of the slab unless otherwise noted.
 - Lap to reinforcing bars shall be 48x bar diameter typically.
- STRUCTURAL STEEL**
- Structural steel detailing, fabrication and erection shall conform to the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings - Load & Resistance Factor Design, latest edition.
 - Steel members shall conform to the following ASTM Standards:
Structural steel rolled shapes WF shapes ASTM A992, M and S ASTM A572 Grade 50.
Steel plates ASTM A36
Structural tube steel HSS Rectangular and square ASTM A500, GRADE C (Fy=50 ksi).
Round ASTM A500, GRADE C (Fy=46 ksi).
 - Structural steel SHALL be shop-painted with a rust inhibiting primer.
 - All field and shop connections to have 3/16 inch continuous fillet welds, unless noted as bolted connections. Welding procedures shall conform to the latest edition of the American Welding Society's (AWS) Structural Welding Codes: For Structural Steel ANSI/AWS D1.1; for Sheet Steel ANSI/AWS D1.3; for Reinforcing Steel ANSI/AWS D1.4.
 - Welded connections using ASTM A992 steel as a base metal shall be made with E70XX Low Hydrogen electrodes. Unless otherwise noted, other welded connections may be made with regular E70XX electrodes.

MASONRY

- Structural masonry has been designed in accordance with the ACI Building Code Requirements for Masonry Structures (ACI 530/ASCE 5).
- Concrete masonry construction shall conform to the ACI Specification for Masonry Structures (ACI 530.1/ASCE 6).
- Concrete masonry construction shall have a minimum compressive strength (f'm) of 1900 psi at 28 days. Mortar shall be type S for interior non-load bearing walls. For all load bearing walls, mortar shall be type M or S proportioned in accordance with ASTM C270, with a 28 day compressive strength of 2150 psi minimum. Portland cement-lime without air entrainment shall be used in the mortar mix.
- Masonry grout shall be a high slump mix having a minimum 28 day compressive strength of 2500 psi. Grout to conform to ASTM C-476. Concrete shall not be used in lieu of masonry grout.
- Lap splices in reinforcing bars to be 48x bar diameter. See typical reinforced cmu wall detail.
- Provide hot-dipped, 9 gauge min., ladder type horizontal joint reinforcement at 16" o.c. vertically unless otherwise noted.
- Masonry reinforcement shall extend from footing to tie, or bond, beam at top of wall, or roof support.
- Concrete masonry shall be laid in a running bond pattern.

COLD FORMED STEEL

- Cold formed (light gauge) steel members shall be detailed and fabricated in accordance with the AISC Specification for the Design of Cold Formed Steel Structural Members, latest edition.
- Splicing of axially loaded members is not permitted. Studs and accessories shall conform to the requirements of ASTM A-653, minimum yield stress 33 ksi, and shall be designed by manufacturer/supplier.
- Studs shall be braced in accordance with the manufacturer's specifications but not less than at four foot centers vertically.

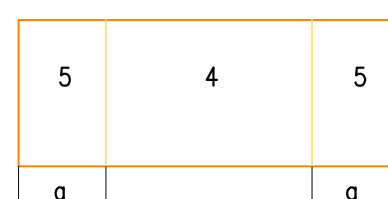
WIND LOAD PER FBC 2017 AND ASCE 7-10:
ULTIMATE WIND SPEED = 170 MPH (132 MPH ASD)
RISK CATEGORY III/V WIND EXPOSURE CATEGORY "c"
ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT = +/- 0.18
WIND DIRECTIONALITY FACTOR Kd = 0.85

MEAN ROOF HEIGHT 15 FT		ROOF SLOPE < 7 DEGREES			
VELOCITY PRESSURE = 53.5 PSF		TRIBUTARY AREA (SQ. FT.)			
AREA	ZONE	10	20	50	100
MAIN ROOF	1,2&3	26	25	23	20
	1	-63	-63	-61	-58
	2	-106	-102	-89	-69
OVERHANG	3	-159	-149	-119	-69
	2	-101	-100	-98	-95
	3	-159	-148	-112	-52

TABLE 1: GROSS ROOF CLADDING ULTIMATE WIND LOADS

ZONE	AREA	10 SF	50 SF
4&5	PRESSURE psf	35	34
4	SUCTION psf	-38	-37
5	SUCTION psf	-46	-45

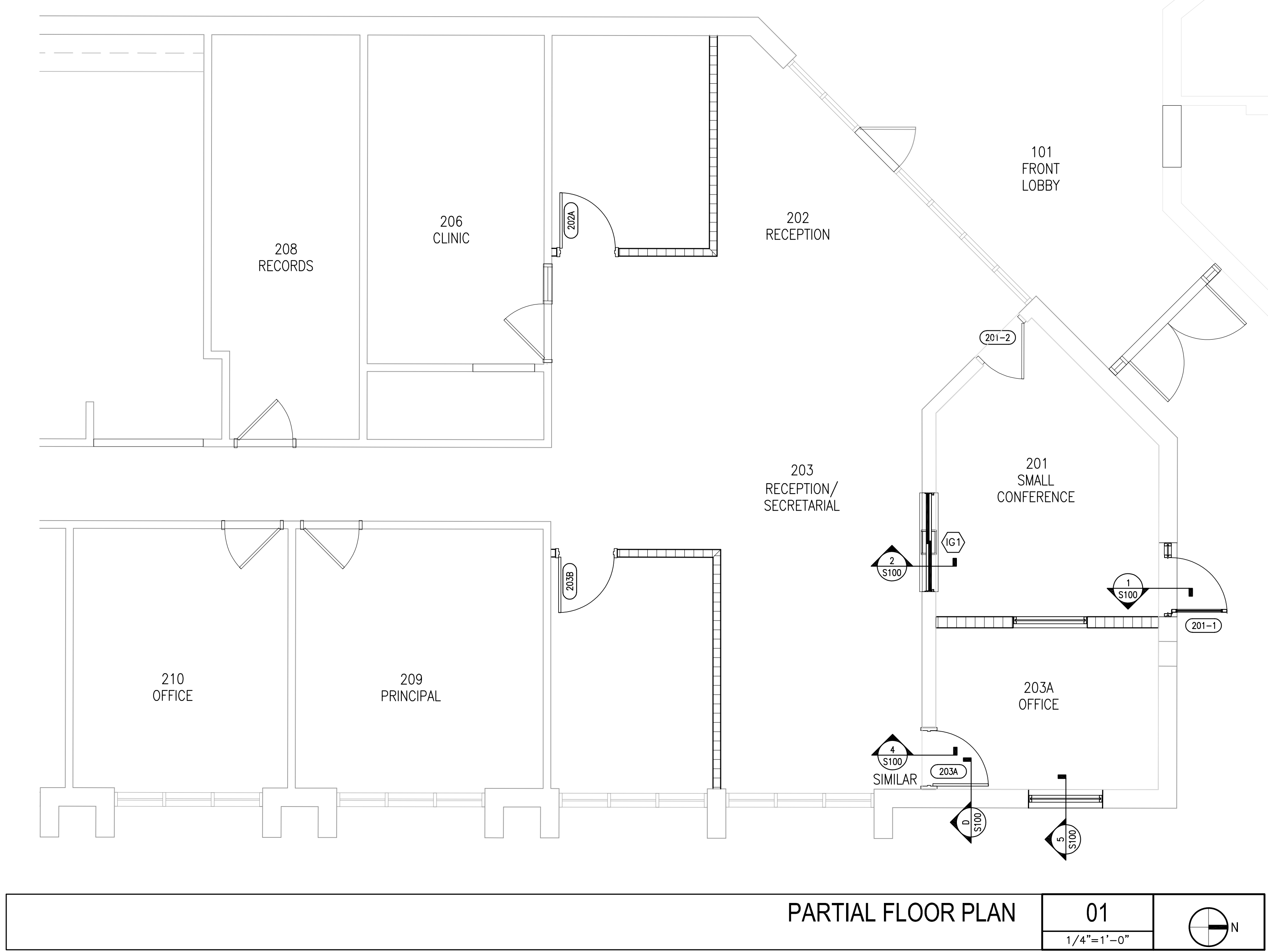
TABLE 2: SERVICE WIND PRESSURES ON WALLS/OPENINGS



WALL WIND ZONES

STANDARD ABBREVIATIONS

- A.B. Anchor Bolt
- ADJ. Adjacent
- ARCH. Architect
- B. (Bot) Bottom
- BEW Bottom Each Way
- BCX Bottom Chord Extension
- BLL Bottom Lower Layer
- BUL Bottom Upper Layer
- BLDG Building
- BM Beam
- BP Base Plate
- C/C Center to Center
- CFW Continuous Fillet Weld
- DIAG. Diagonal
- DIA. Diameter
- D. FIR Douglas Fir
- DIM Dimension
- DJ Double Joist
- DWG Drawing
- DWL Dowel
- EA. Each
- EE Each End
- EF Each Face
- EJ Expansion Joint
- EW Each Way
- EWB Each Way Bottom
- EWL Each Way Top
- EL. ELEV. Elevation
- ELECT Electrical
- E-W East-West
- EQ Equal
- EXIST Existing
- EXT External
- FF Far Face
- FDN Foundation
- FFL Finished structural floor level
- FIN Finished
- FL Floor
- FTG Footing
- FMC Full Moment Connection
- GA Gauge
- GALV Galvanized
- GT Girder Truss
- HORI Horizontal
- HD Holding Down (anchors)
- HT Hip/Valley truss
- INT Interior
- JB Joist bearing elevation
- JT Joint
- JST Joist
- JST GRD Joist Girder
- KIPS Kilopounds, Kips
- KLF Kilopounds per foot
- L Angle (e.g. L4x4x1/4)
- LBS Pounds
- LG Long
- LLV Long Leg Vertical
- LH Long Leg Horizontal
- LONG Longitudinal
- MAX Maximum
- MECH Mechanical
- MEZZ Mezzanine
- MIN Minimum
- MISC Miscellaneous
- MOM Moment
- MC Moment Connection
- MSL Mean Sea Level
- N-S North-South
- NTS Not to Scale
- NO. Number
- NW Normal weight
- O/C On Center (C/C)
- O.D. Outside Diameter
- PL Plate
- PC Precast
- PROJ Projection
- PSI Pounds per square inch
- PSF Pounds per square foot
- PLF Pounds per linear foot
- RC Reinforced concrete
- REINF Reinforcement (steel)
- REQ'D Required
- REV Revision
- RHS Rectangular Hollow Steel Section
- SDF Step Down Footing Specification
- SPEC Square Hollow Steel Section
- SHS Steel
- ST Standard
- STD Square
- SQ Square
- STRUCT Structural
- SJ Sawn (Control) Joint
- SP Southern Pine
- T Top
- TB Truss Bearing elevation
- TLL Top Lower Level
- TML Top Middle Level
- TUL Top Upper Level
- TEMP Temperature
- TYP Typical
- TRANS Transverse
- TS Tube steel section
- TJ Tie Joist
- TOB Top of Beam
- TOD Top of Deck
- TOS Top of Steel
- TOW Top of wall
- U/S Underside
- UNO Unless noted otherwise
- VERT Vertical
- W Wide Flange (beam)
- WWF Welded Wire Fabric
- WWR Welded Wire Rebar/Reinforcing



PARTIAL FLOOR PLAN 01

1/4"=1'-0"

FASTENERS FOR DOOR OPENING

1" X P.T. BUCK W/ 1/4"Ø X 1 1/2" CONC. EMBEDMENT
TAPCON W/ 1"Ø WASHER AT 12" O.C., START 3" FROM CORNERS.

BUCKS TO BE FASTENED HORIZONTALLY AND VERTICALLY TO CONCRETE WALLS.
G.C. TO COORDINATE OPENING DIMENSIONS AND BUCK FASTENING DETAIL WITH PRODUCT APPROVALS.

MINIMUM WINDOW/ DOOR BUCK FASTENERS TO REINFORCED CONCRETE WALLS



Architecture • Planning • Interior Design
1545 Centrepark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482
AA - 0003165 IB - 0001095

Name: **ANDREW MORGAN**
License #: **PE 57171**
Consultants :

COPYRIGHT © 2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

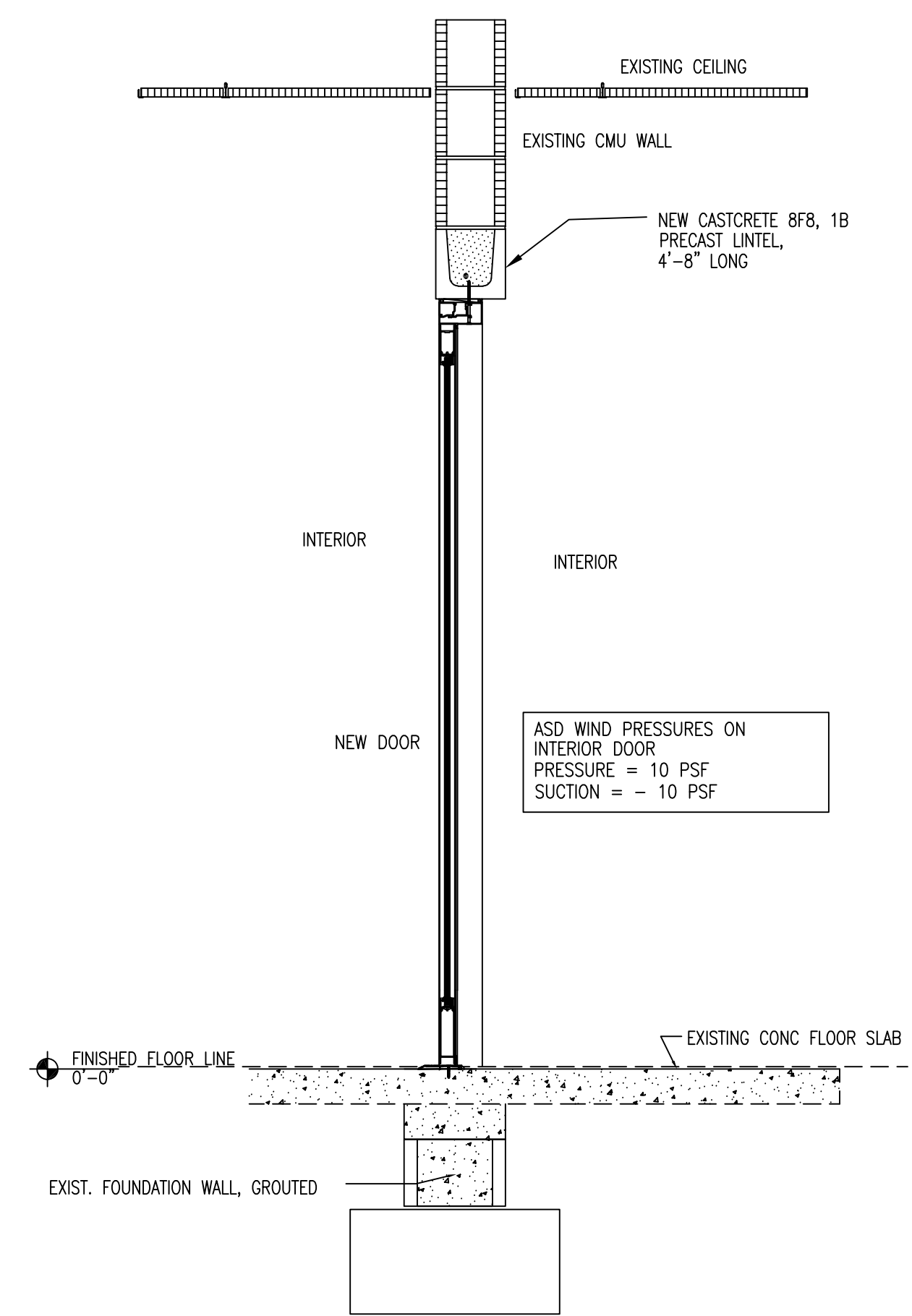
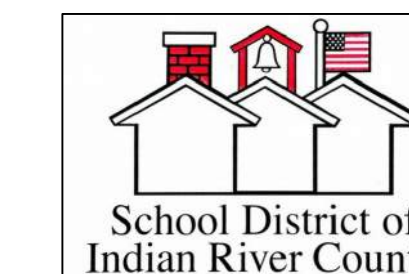
PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions :
Date : 09/14/2018
S+A Project No. : 18033
Owner Project No. :
Drawn By : AM
Checked By : AM

Phase :
90% CONSTRUCTION DOCUMENTS

Sheet Title :
STRUCTURAL NOTES

Sheet # :
S-001



DOOR LINTEL SECTION

VERT. MASONRY BEING IN GROUT FILLED CELLS. SEE MASONRY WALL SCHEDULE.

LINTEL SCHEDULE				
PLAN MARK	MAXIMUM OPENING WIDTH FT	CASTCRETE LINTEL DETAILS	ACTUAL LOADS PLF	ALLOWABLE LOADS PLF
L1	3'-4"	8FB, 1B	1100 -636	2189 G -1207 U
L2	5'-4"	8FB, 1B	1100 -636	1238 G -835 U

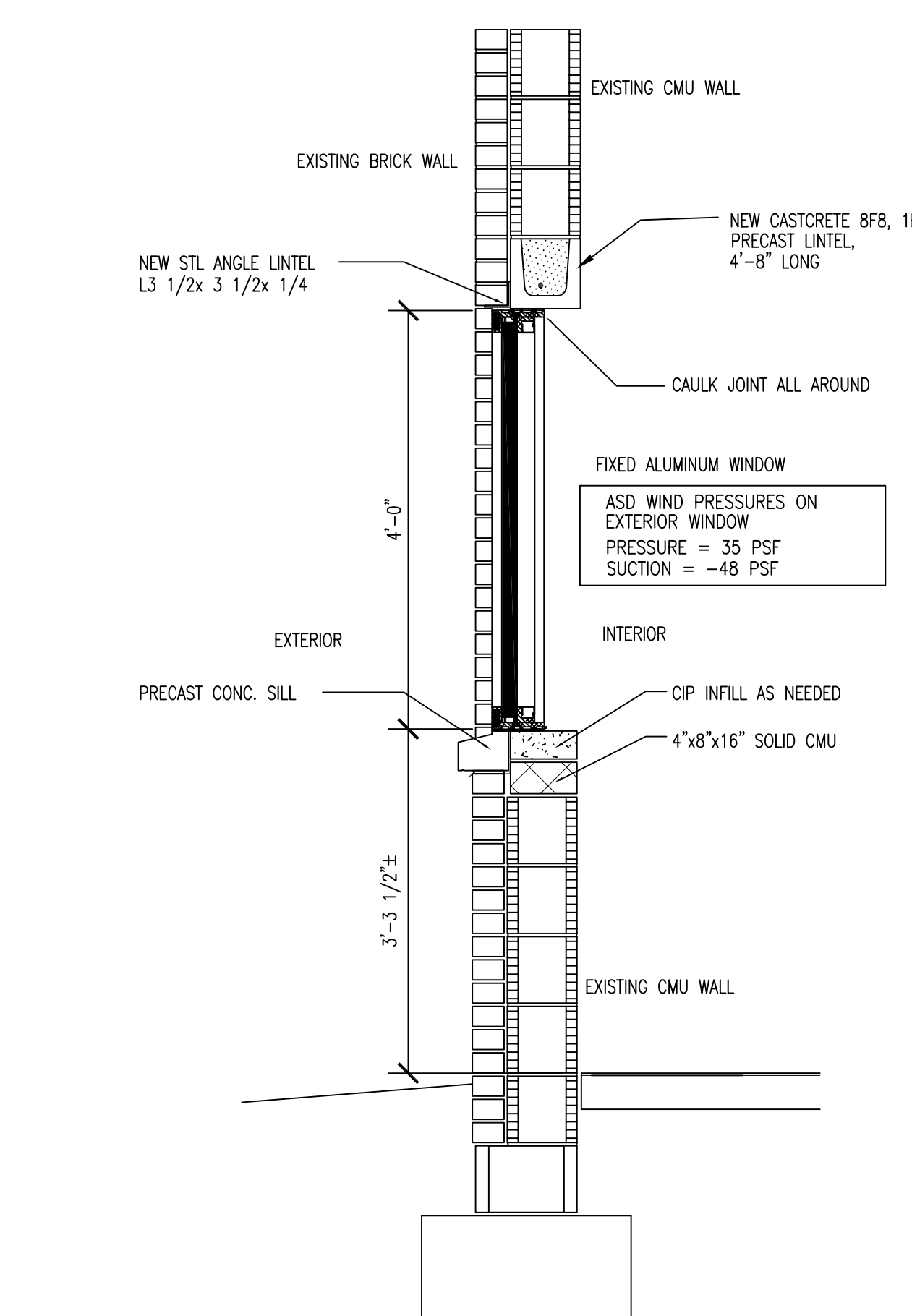
1238 G: 1238 PLF VERTICAL GRAVITY LOAD
-835 U: 835 PLF UPLIFT LOAD

* PRECAST CONCRETE LINTEL AS MANUFACTURED BY CAST-CRETE, OR APPROVED EQUAL, WITH 8" BEARING EACH END, ENDS TO HAVE 5 1/2" LONG x 4" WIDE NOTCH TO ACCOMMODATE VERTICAL REINFORCING AND GROUTING.

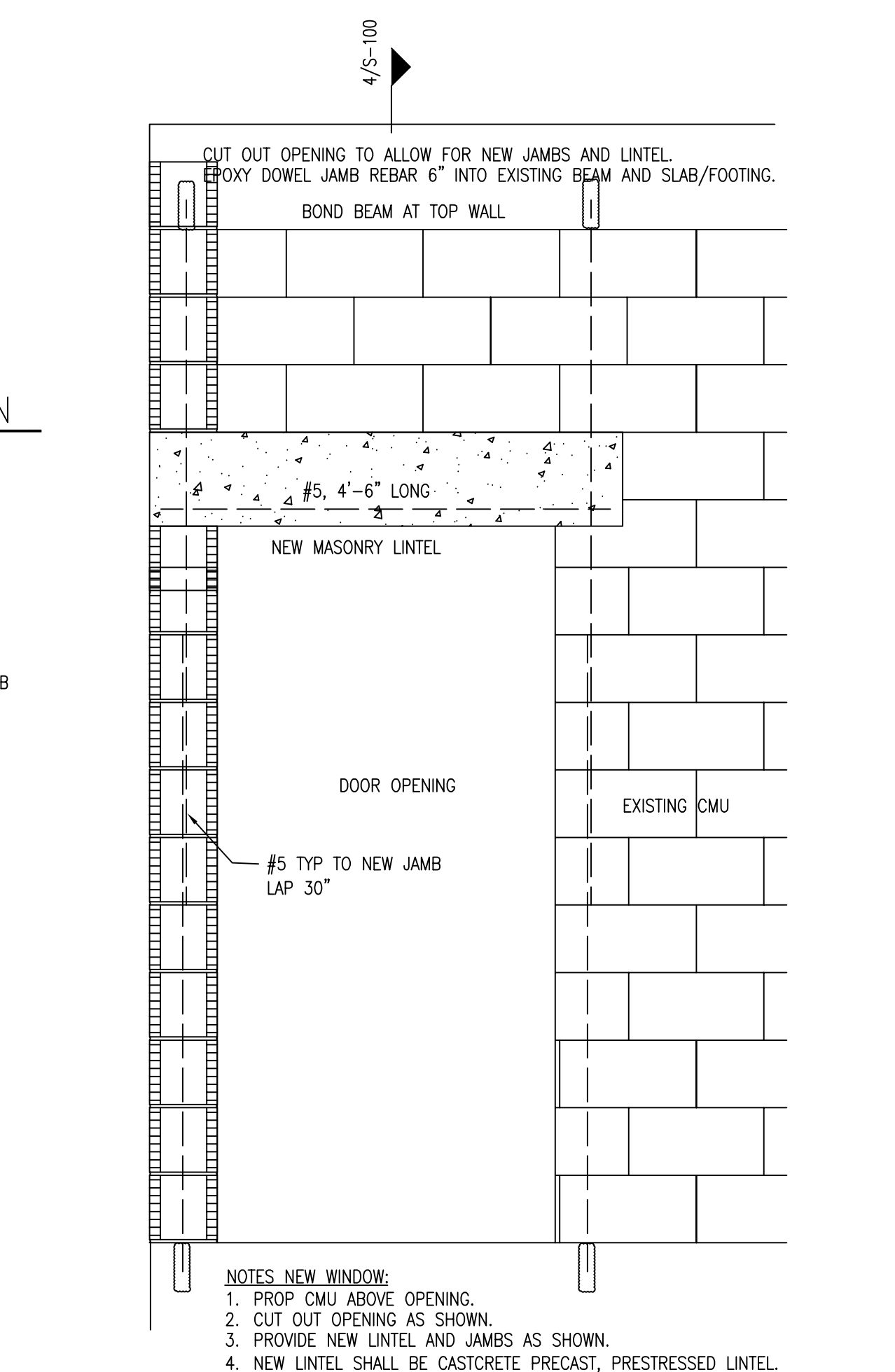
NOTES:
1. GROUT SOLID ALL MASONRY UNITS AS SHOWN.
2.
3. CMU SHALL BE 8" NORMAL WEIGHT LAID IN RUNNING BOND.
4. SHORE LINTEL UNTIL CONCRETE CURES (7 DAY MIN)

C CONCRETE MASONRY LINTEL DETAILS
NTS

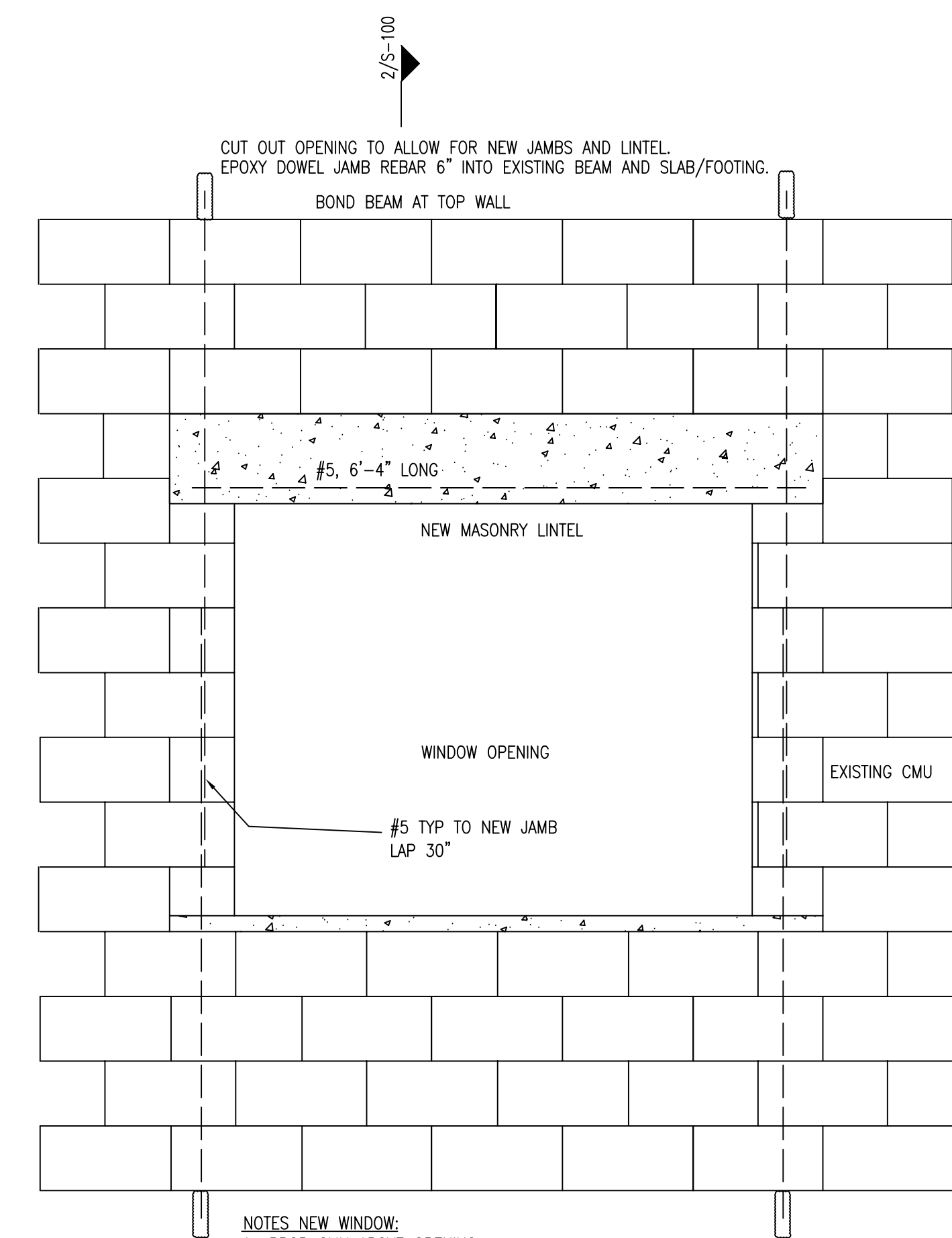
SECTION 4
DOOR 201-1
3/4" = 1'-0"



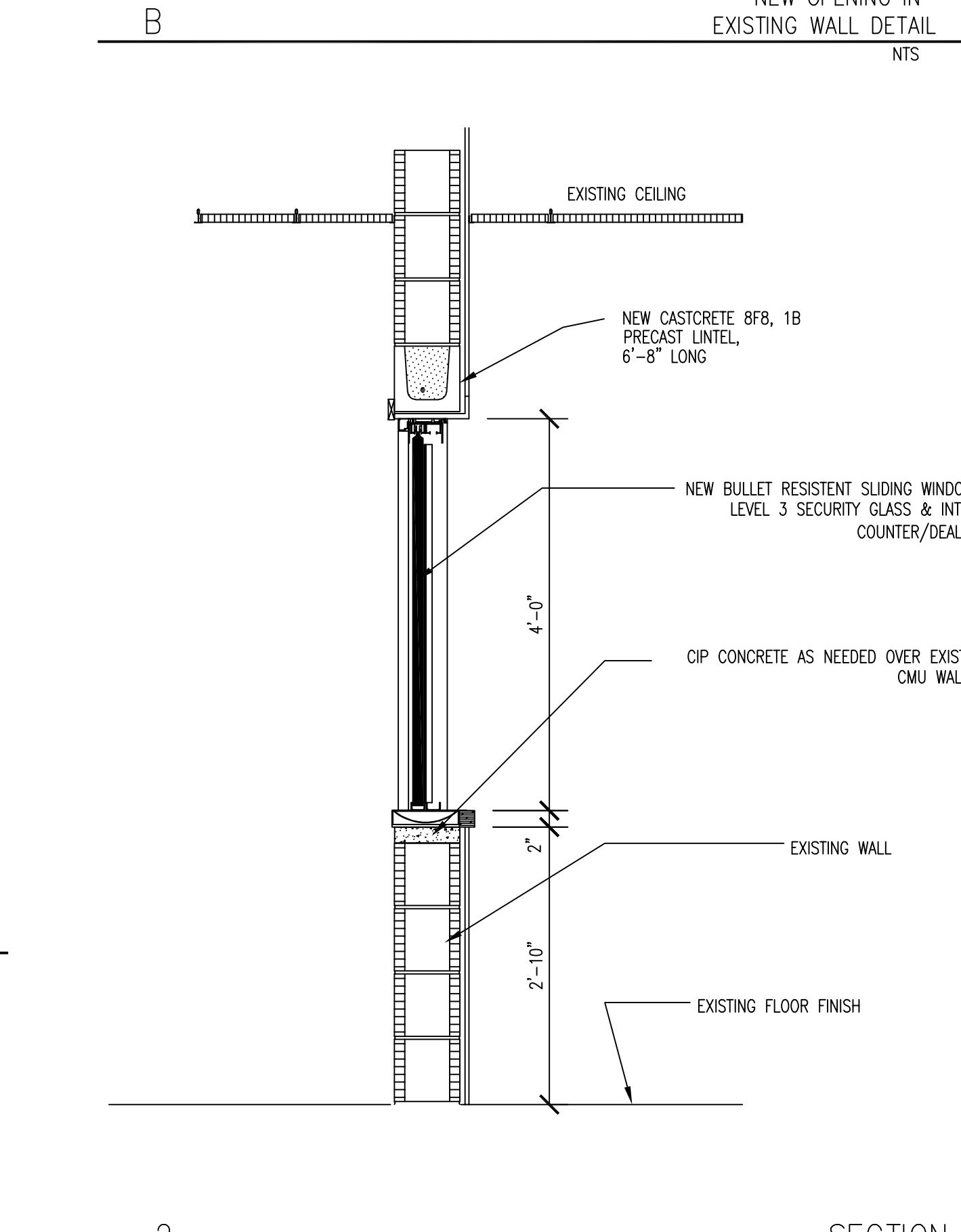
SECTION 5
DOOR 203A
3/4" = 1'-0"



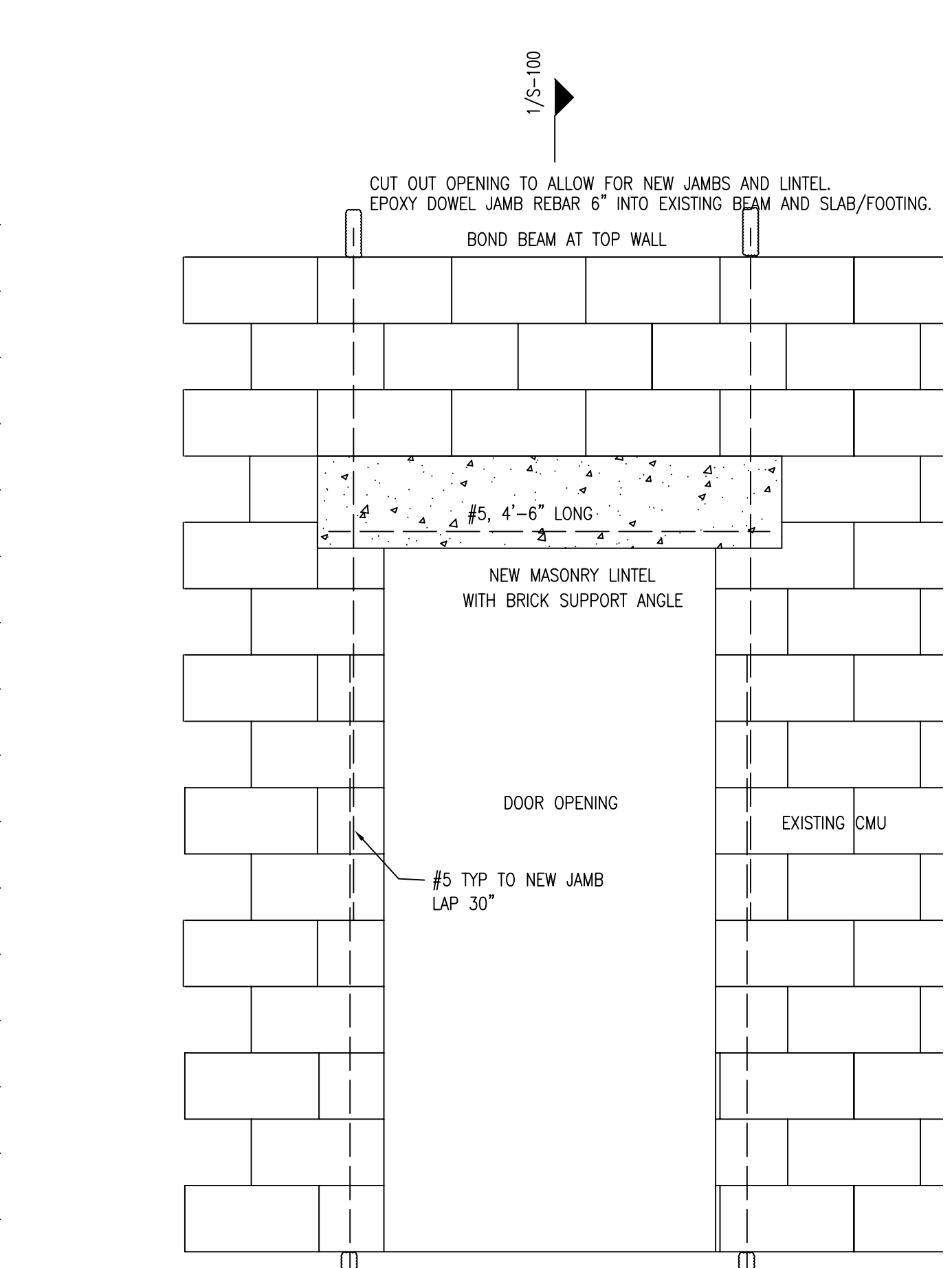
SECTION B
NEW DOOR OPENING IN EXISTING WALL DETAIL
NTS



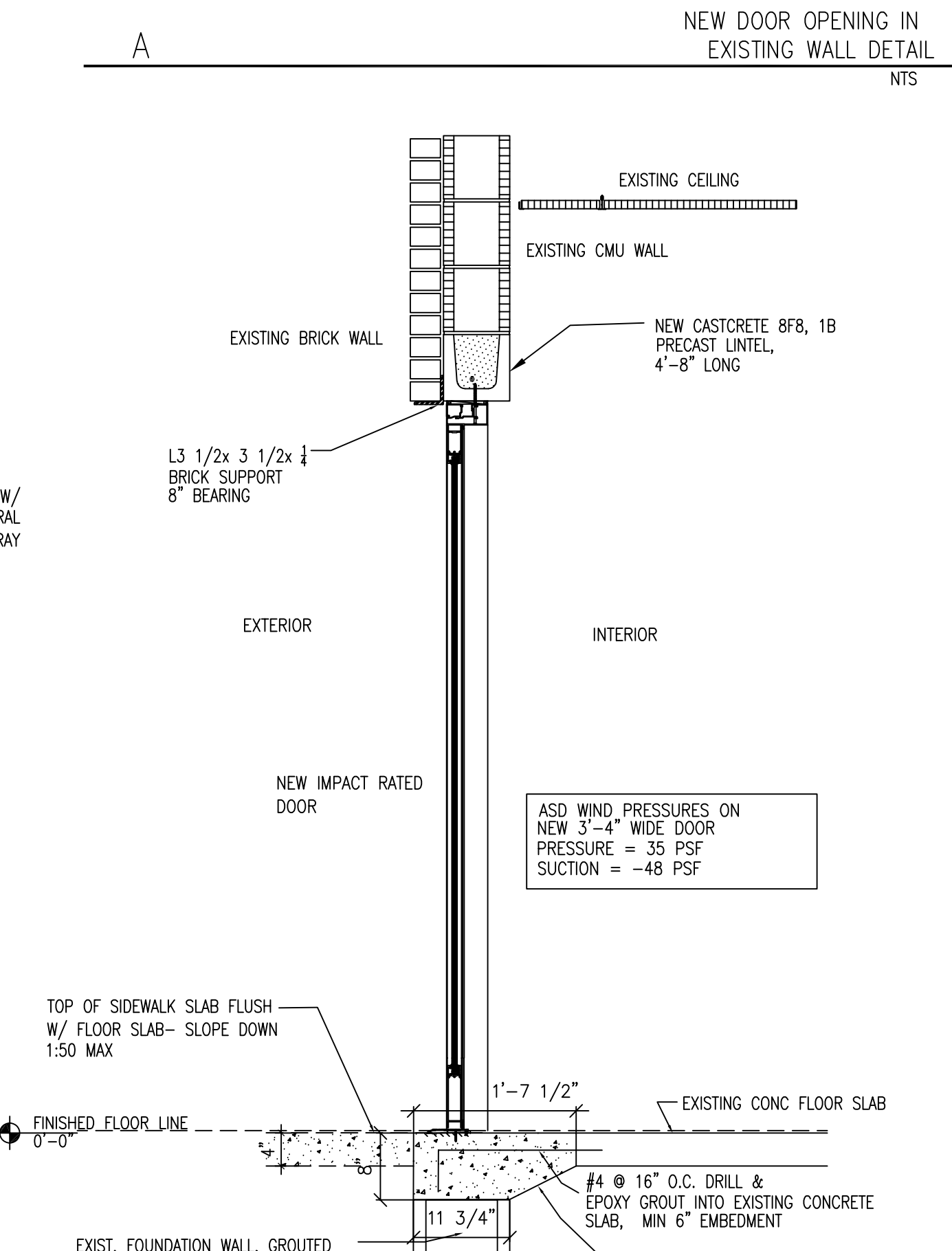
SECTION B
NEW OPENING IN EXISTING WALL DETAIL
NTS



SECTION 2
DOOR 201-1
3/4" = 1'-0"



SECTION A
NEW DOOR OPENING IN EXISTING WALL DETAIL
NTS



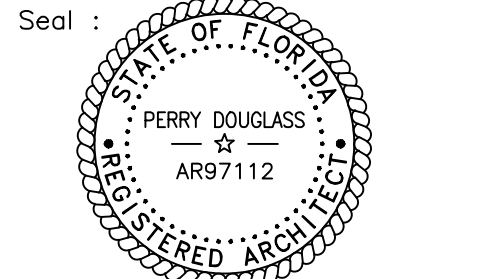
SECTION 1
DOOR 201-1
3/4" = 1'-0"



Song + Associates

Architecture • Planning • Interior Design
1545 Centpark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482

AA - 0003165 IB - 0001995



Name: PERRY DOUGLASS
License #: AR 97112

Consultants :

COPYRIGHT ©2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is accepted or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions :

Date : 09/19/2018

S+A Project No : 18033

Owner Project No :
Drawn By : PD/WS

Checked By : PD

Phase :

CONSTRUCTION DOCUMENTS

Sheet Title :

DEMOLITION FLOOR PLAN

Sheet # :

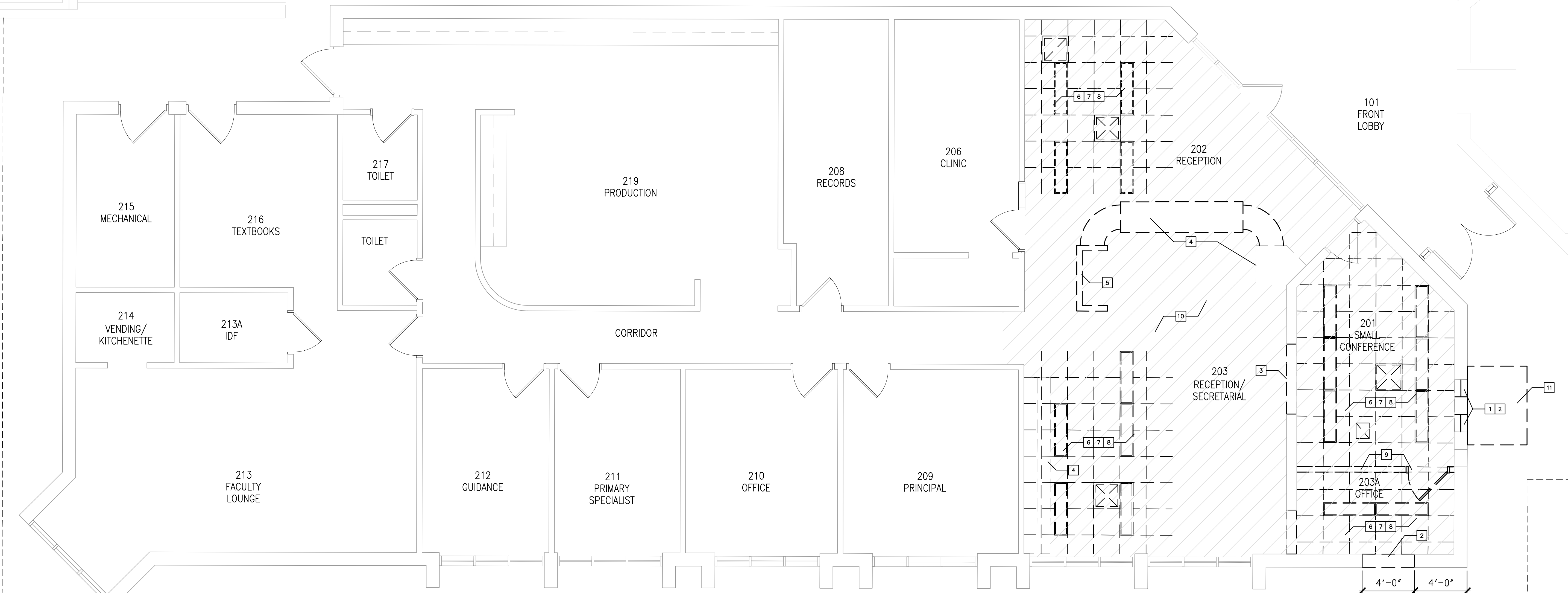
D-101

DEMOLITION CODED NOTES

- 1 REMOVE ALUMINUM WINDOW AND BRICK VENEER CMU WALL TO PREPARE OPENING FOR NEW STOREFRONT ENTRY SYSTEM
- 2 COMPLETELY REMOVE EXISTING BRICK VENEER/CMU WALL TO ACCOMMODATE NEW DOOR OR WINDOW OPENING/STRUCTURAL LINTEL
- 3 COMPLETELY REMOVE EXISTING CMU WALL TO ACCOMMODATE NEW TRANSACTION WINDOW OPENING/STRUCTURAL LINTEL
- 4 COMPLETELY REMOVE EXISTING CASEWORK/COUNTERTOPS. TERMINATE EXISTING INTERNAL ELECTRIC/DATA WIRING PER ELECTRICAL DRAWINGS/NOTES.
- 5 COMPLETELY REMOVE EXISTING GWB/FRAMED SHELF NOOK. TERMINATE EXISTING INTERNAL ELECTRIC/DATA WIRING PER ELECTRICAL DRAWINGS/NOTES. RELOCATE ALARM PANEL PER ELECTRICAL DRAWINGS AND AED BOX AS DIRECTED BY OWNER.
- 6 COMPLETELY REMOVE EXISTING LIGHT FIXTURES @ AREAS OF NEW WORK. SALVAGE FIXTURES AND TURN OVER TO SCHOOL DISTRICT.
- 7 COMPLETELY REMOVE EXISTING DIFFUSERS @ AREAS OF NEW WORK. SALVAGE FIXTURES AND TURN OVER TO SCHOOL DISTRICT.
- 8 COMPLETELY REMOVE EXISTING ACT AND GRID. MAINTAIN AREAS TO REMAIN TO THE EXTENT POSSIBLE TO PROVIDE UNIFORM TIE INTO NEW WORK.
- 9 COMPLETELY REMOVE EXISTING STUD WALL, DOOR, AND FRAME
- 10 COMPLETELY REMOVE EXISTING FLOORING TO SLAB
- 11 NEATLY SAWCUT EXISTING SIDEWALK AS NEEDED TO PERFORM NEW WORK. UTILIZE EXISTING CONTROL JOINTS TO THE EXTENT POSSIBLE.

DEMOLITION GENERAL NOTES

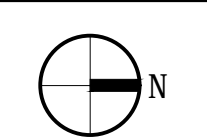
- A. GENERAL AND ALL SUB-CONTRACTORS, SHALL VISIT THE SITE AND PRECISELY EXAMINE THE EXISTING STRUCTURE, SURFACES, CONDITIONS AND EXTENT OF WORK INVOLVED. AFTER EXAMINATION A DEMOLITION SCHEDULE SHALL BE PREPARED AND SUBMITTED IN WRITING TO THE OWNER AND THE ARCHITECT FOR THEIR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK.
- B. CONTRACTOR(S) ARE RESPONSIBLE FOR VERIFYING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS AND FINISHES INDICATED IN THE CONTRACT DOCUMENTS. REFER TO THE NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED, BUT SHOWN ON DEMOLITION PLANS.
- C. ALL CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL ORDINANCES.
- D. EXECUTE ALL DEMOLITION WORK IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ANY EXISTING STRUCTURE. EXTREME CAUTION SHALL BE EXERCISED TO ENSURE THAT NO DAMAGE OCCURS ABSOLUTELY TO ANY OF THE EXISTING EQUIPMENT, FURNITURE, OR EXISTING STRUCTURE TO REMAIN. WORK SHALL BE CONFINED EXCLUSIVELY WITHIN THE BUILDING BOUNDARY IDENTIFIED. DEMOLITION CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE TO ADJOINING SURFACES, FINISHES OR STRUCTURE CAUSED BY CONSTRUCTION OPERATIONS.(ACTIVITY)
- E. ANY EXISTING ACTIVE UTILITY SERVICE LINES, INDICATED OR NOT, SHALL BE PROTECTED FROM DEMOLITION OR DAMAGE. DISCONNECT ANY ELECTRIC, TELEPHONE, GAS, WATER, OR OTHER UTILITY LINES SERVICING THE STRUCTURE ACCORDING TO THE EXISTING RULES & REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. PRIOR TO DISCONNECTING ANY UTILITY SERVICE LINE, NOTIFY OWNER AND COORDINATE THE TIME WITH THE OWNER'S SCHEDULE.
- F. "FLOORING" DENOTES FLOOR COVERING MATERIALS, INCLUDING ADHESIVES, DOWN TO, BUT EXCLUSIVE OF FLOOR SLABS, STRUCTURAL SLABS, AND STRUCTURAL SYSTEMS, UNLESS NOTED OTHER WISE.
- G. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON THE SLAB OR AS SPECIFICALLY NOTED. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
- H. ALL MATERIAL REMOVED UNDER THIS CONTRACT, WHICH IS NOT TO BE SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. TO CONVEY MATERIALS, USE MOVABLE, COVERED, DEBRIS BOXES. DO NOT STORE/PERMIT DEBRIS TO ACCUMULATE ON SITE.
- I. WHERE PORTIONS OF THE EXISTING STRUCTURE ARE TO BE REMOVED, PROVIDE BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW CONSTRUCTION HAS BEEN INSTALLED AND ADEQUATELY BRACED.
- J. ANY MATERIALS SPECIFIED TO BE REUSED BY THE OWNER SHALL BE CAREFULLY REMOVED, PROTECTED & STORED AT THE OWNER'S DIRECTION.
- K. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACES SHALL BE SMOOTH AND FLUSH AND TO BLEND SEAMLESSLY WITH THE EXISTING CONDITIONS. PATCH, REPAIR, AND REPLACE SURFACES AS REQUIRED.
- L. UPON COMPLETION OF DEMOLITION WORK, ADJACENT AREAS AND THE PROPERTY SHALL BE LEFT CLEAN AND SATISFACTORY TO THE LOCAL AUTHORITIES, THE OWNER, AND THE ARCHITECT. IN ADDITION TO DAILY CLEANING OF THE SITE.
- M. GENERAL CONTRACTOR SHALL VERIFY THE EXISTING UNDER SLAB ELECTRICAL AND OTHER UTILITY SERVICE IN AREAS OF SLAB DEMOLITION. VERIFICATION METHODS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR WHO SHALL COORDINATE WITH THE OWNER IF ANY UTILITY SERVICES FOUND TO BE IN CONFLICT. GENERAL CONTRACTOR SHALL COORDINATE UTILITY SERVICE SHUT DOWN WITH THE OWNER PRIOR TO DEMOLITION.
- N. AREA DESIGNATED AS OWNER-OCCUPIED DURING CONSTRUCTION PERIOD SHALL HAVE ALL BUILDING SERVICES MAINTAINED WITHOUT INTERRUPTION EXCEPT AS REQUIRED FOR CONSTRUCTION AND WITH PRIOR APPROVAL BY THE OWNER. SCHEDULE SUCH DOWN TIME WITH OWNER 72 HOURS IN ADVANCE.
- O. BUILDING EXIT ACCESS, AND ALL LIFE SAFETY DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE AREA DESIGNATED AS OWNER-OCCUPIED DURING THE CONSTRUCTION PERIOD.
- P. "COMPLETELY" DENOTES TOTAL REMOVAL OF ALL ITEMS INDICATED FOR DEMOLITION, INCLUDING BUT NOT LIMITED TO DOORS, FRAMES, WINDOWS, MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.
- Q. REFER TO MECHANICAL, PUMBLING AND ELECTRICAL DWGS FOR ADDITIONAL DEMOLITION NOTES.
- R. NO REMOVAL OF HAZARDOUS MATERIALS IS ANTICIPATED, AND IS NOT INCLUDED IN SCOPE OF WORK. IN THE EVENT THAT ANY SUSPICIOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY NOTIFY THE DISTRICT.



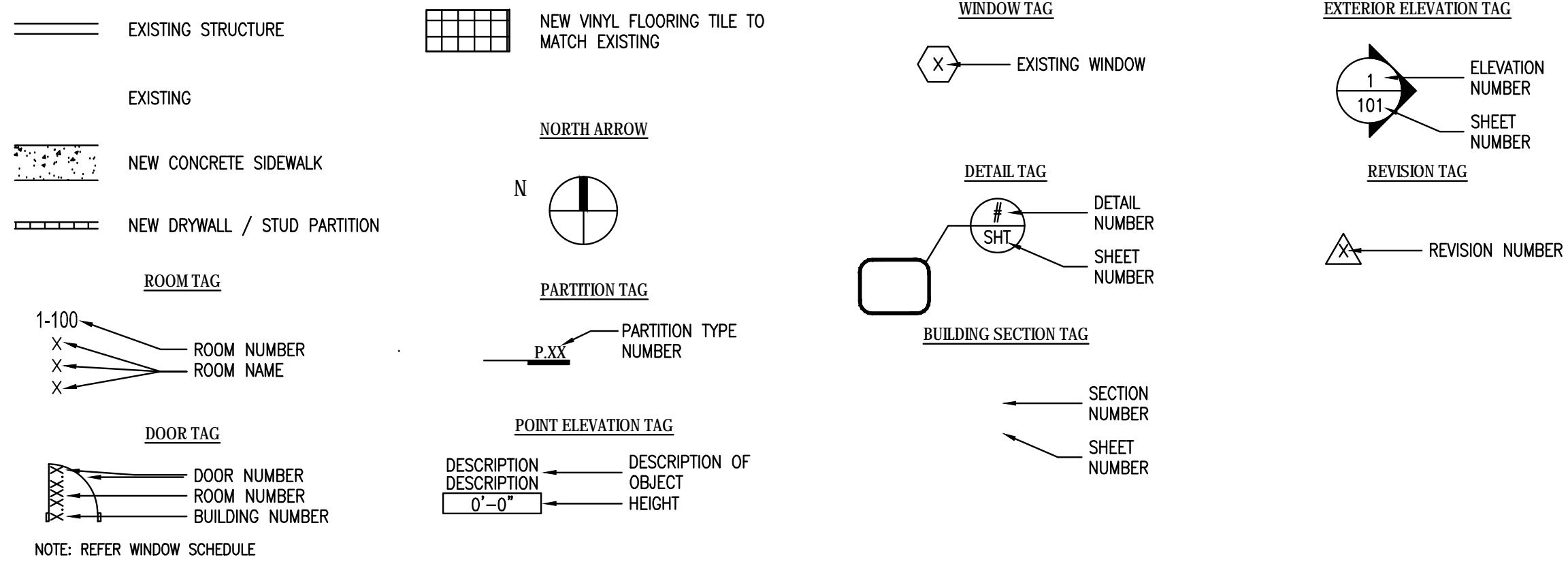
DEMOLITION FLOOR PLAN

01

1/4"=1'-0"



FLOOR PLAN LEGEND



GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ANY INCONSISTENCIES.
2. ALL DIMENSIONS FOR NEW WORK ARE TO FACE OF FINISH AND CENTERLINES OF COLUMNS, UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO EXISTING ARE TO FACE OF FINISH UNLESS OTHERWISE INDICATED. DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
3. PROVIDE ALL REQUIRED BLOCKING AS NEEDED FOR BUILT IN CASEWORK, EQUIPMENT SUPPORTS, TOILET ACCESSORIES, ETC. COORDINATE WITH ALL TRADES AS REQUIRED. PROVIDE G-185 COATING FOR PT WOOD ANCHORS.
4. VERIFY SIZES OF ALL OWNER PROVIDED EQUIPMENT AND COORDINATE ALL OPENINGS, CLEARANCES, ELECTRICAL AND MECHANICAL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION.
5. UPON COMPLETION OF THE WORK, PROPERTY AND ADJACENT AREAS SHALL BE LEFT CLEAN AND SATISFACTORY TO THE OWNER AND THE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING AND FITTING OF ALL WORK IN A NEAT WORKMANLIKE MANNER. PROTECT ALL ADJACENT SURFACES FROM DAMAGE. PATCH AND REPAIR ALL WORK DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL OR BETTER CONDITION. WHERE NEW WORK ADJOINS EXISTING IN THE SAME PLANE, MATCH ADJACENT FINISHES, MATERIALS, TEXTURES, SHEEN, ETC.
7. AT AREAS OF FLOOR SLAB REPLACEMENT (DUE TO DEMOLITION), PROVIDE VAPOR BARRIER SHEET, BACKFILL TRENCH, COMPACT AND REPLACE SLAB TO MATCH EXISTING ADJACENT IN ELEVATION, FINISH AND REINFORCEMENT.

GENERAL PARTITION NOTES :

WALL TAG DESIGNATION IS INTENDED TO INDICATE WALL TYPE ALONG AN ENTIRE WALL PLANE AND/OR SURFACE ALONG THE FULL LENGTH OF A SPACE OR CORRIDOR INCLUDING ASSOCIATED ALCOVES AND NICHES, UNLESS INDICATED OTHERWISE.

AT NEW ASSEMBLIES, WALL BOARD AND SURFACE FINISH MATERIAL SHALL EXTEND TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.

REFER TO FINISH SCHEDULE FOR TYPE OF WALL FINISH TO BE UTILIZED AT PARTICULAR LOCATIONS. EXTEND FINISHES 4" ABOVE CEILING.

IF A CEILING IS NOT REQUIRED IN A SPACE, CONTRACTOR SHALL CONTINUE WALL AND FINISH TO DECK ABOVE.

ALL FURRING INDICATED SHALL MATCH DEPTH OF ADJACENT EXISTING U.N.O.

MAXIMUM STUD SPACING & MIN. STUD GAUGE SHALL PROVIDE A MAXIMUM DEFLECTION OF L/240 UNDER A MINIMUM 5 PSF LATERAL LOAD, UNLESS OTHERWISE INDICATED

SET FLOOR TRACKS IN TWO CONTINUOUS BEADS OF ACOUSTICAL SEALANT (TYP)

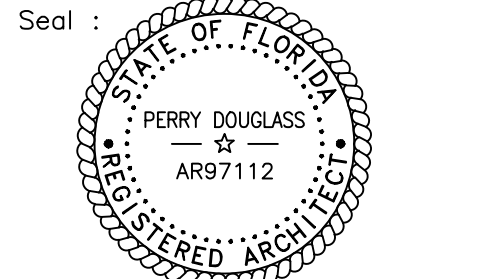
CODED NOTES

1. PROVIDE NEW TILE FLOORING AND BASE TO MATCH EXISTING THROUGHOUT. EXISTING BASE MAY BE MAINTAINED SHOULD IT BE DEEMED FEASIBLE.
2. REFER TO A-211 FOR NEW CASEWORK DIMENSIONS AND DETAILS..
3. FACE OF NEW WALL TO ALIGN W/ EXIST. WINDOW JAMB.
4. INFILL INTERIOR SLAB WHERE MASONRY WALL WAS REMOVED FOR DOOR OPENING. REFER TO SECTION 2/A-211.
5. INFILL EXTERIOR SIDEWALK AS NEEDED. FEATHER INTO NEW THRESHOLD TO SLOPE AWAY FROM BUILDING @ 1:50 MAX. REFER TO SECTION 2/A-211.
6. MAINTAIN ALIGNMENT OF NEW TILE JOINTS WITH EXISTING.
7. PROVIDE FULL ENCLOSURE END PANELS TO MATCH CASEWORK (TYP)
8. PROVIDE ALUMINUM VISITOR SIGNAGE ABOVE INTERCOM PER DETAIL THIS PAGE



Architecture • Planning • Interior Design
 1545 Centrepark Drive North
 West Palm Beach, Florida 33401
 Telephone: 561-655-2423
 Fax: 561-655-1482

AA - 0003165 IB - 0001995



Name: PERRY DOUGLASS
 License #: AR 97112

Consultants :

COPYRIGHT ©2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is accepted or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
 OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
 1355 SCHUMANN DR.
 SEBASTIAN, FL 32958

Revisions :

Date : 09/19/2018
 S+A Project No : 18033
 Owner Project No :
 Drawn By : PD/WS
 Checked By : PD

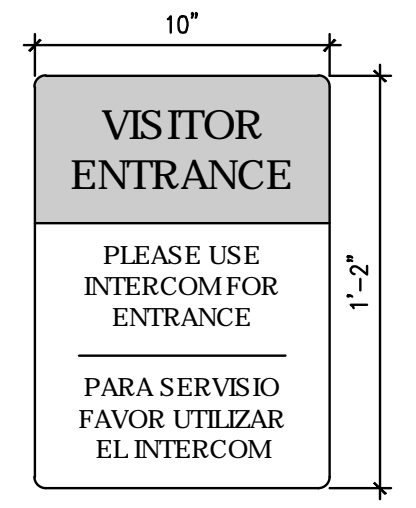
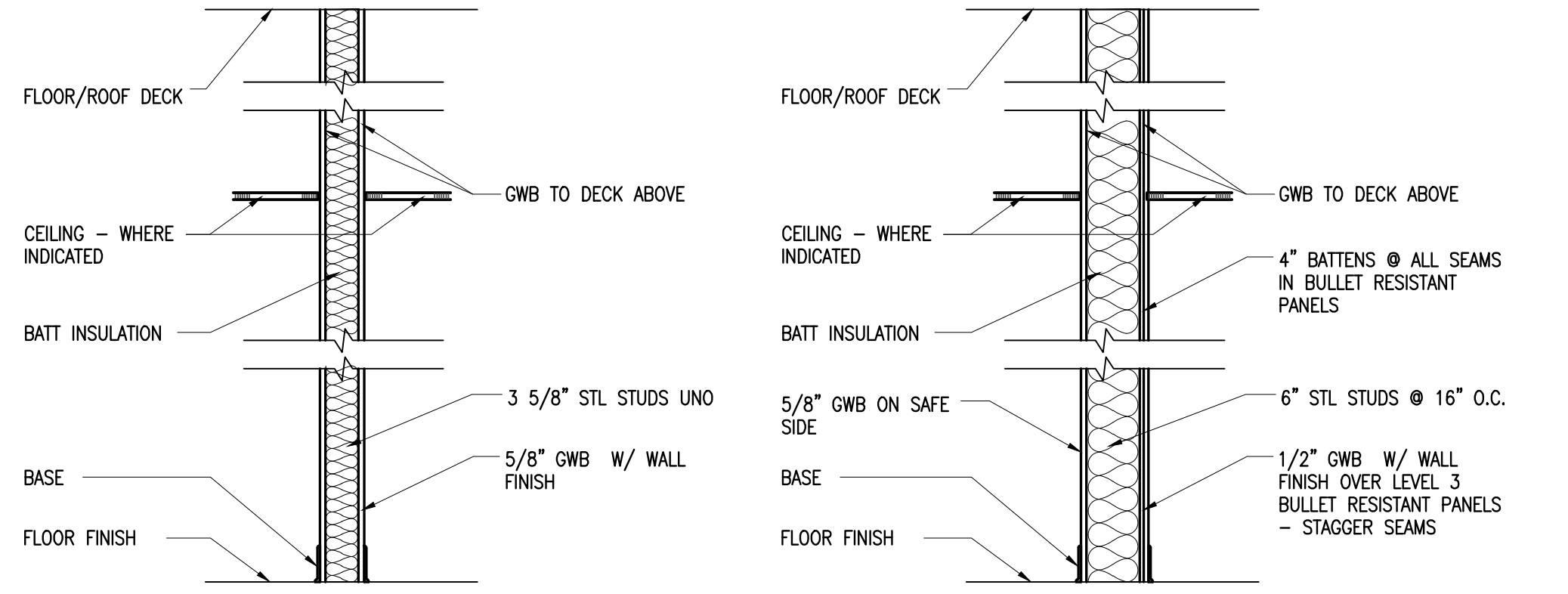
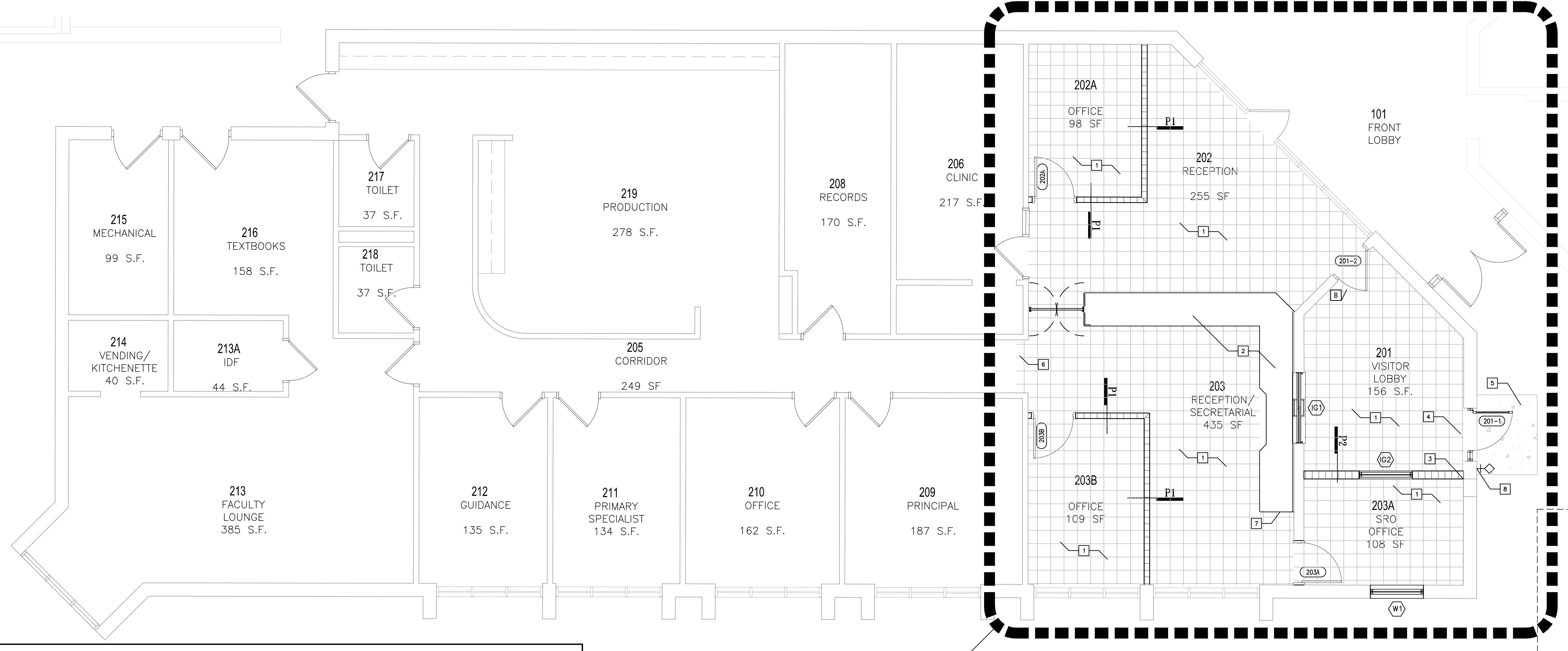
Phase :
 CONSTRUCTION DOCUMENTS

Sheet Title :

FLOOR PLAN

Sheet # :

A-101



PARTITION TYPES

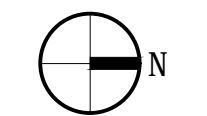
02

3/4"=1'-0"

PARTIAL FLOOR PLAN

01

1/4"=1'-0"



REFLECTED CEILING LEGEND

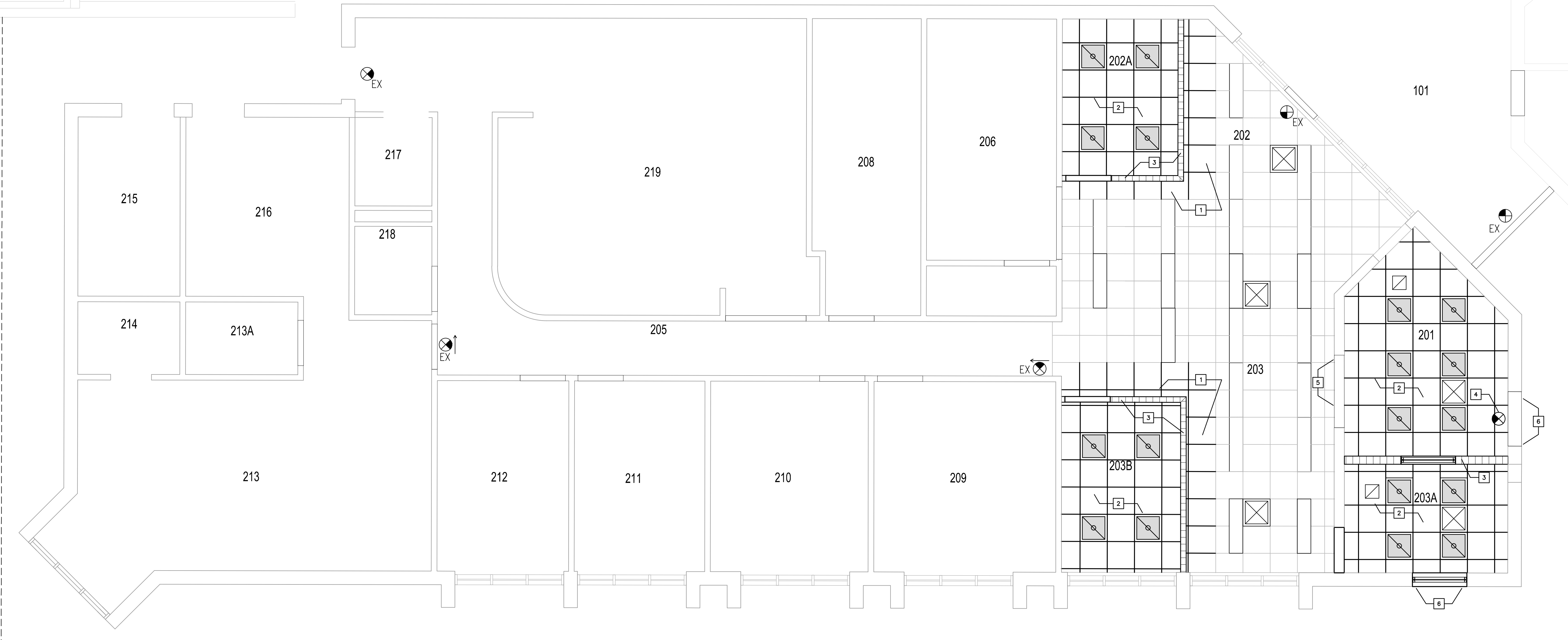
<p>ROOM TAG</p> <p>1-100 X ROOM NUMBER X ROOM NAME X</p> <p>DETAIL TAG</p> <p># SHT DETAIL NUMBER SHEET NUMBER</p> <p>DETAIL SECTION TAG</p> <p>XX/XXX SHEET NUMBER DETAIL NUMBER</p> <p>CEILING HEIGHT TAG</p> <p>0'-0" CEILING HEIGHT (AS MEASURED FROM FINISHED FLOOR)</p> <p>2' x 2' LAY IN ACOUSTICAL CEILING TILE</p> <p>2' x 4' LAY IN ACOUSTICAL CEILING TILE</p> <p>QWB CEILING SOFFIT / BULKHEAD</p> <p>STUCCO CEILING / SOFFIT</p>	<p>EXPOSED STRUCTURE</p> <p>PLASTER/ VENEER PLASTER</p> <p>WASHABLE ACOUSTICAL CEILING TILES</p> <p>2x2 LAY-IN FIXTURE</p> <p>2x2 LAY-IN FIXTURE - EMERGENCY</p> <p>2x4 LAY-IN FIXTURE</p> <p>2x4 LAY-IN FIXTURE - EMERGENCY</p> <p>RECESSED FIXTURE</p> <p>RECESSED FIXTURE - EMERGENCY</p> <p>1X4 SURFACE MOUNTED FIXTURE</p> <p>1X4 SURFACE MOUNTED FIXTURE - EMERGENCY</p> <p>SURFACE MOUNTED FIXTURE</p> <p>SURFACE MOUNTED FIXTURE - EMERGENCY</p> <p>SUSPENDED FIXTURE</p> <p>SUSPENDED FIXTURE - EMERGENCY</p> <p>SUSPENDED PENDANT FIXTURE</p> <p>SUSPENDED PENDANT FIXTURE - EMERGENCY</p>	<p>RETURN AIR GRILLE</p> <p>SUPPLY AIR GRILLE</p> <p>EXHAUST GRILLE</p> <p>SMOKE DETECTOR</p> <p>HEAT DETECTOR</p> <p>SPRINKLER</p> <p>CEILING PROJECTOR</p> <p>SOUND DIFFUSER</p> <p>LIGHTED EXIT SIGN - SINGLE FACED DARKENED AREA INDICATES FACE OF SIGN VIEWED</p> <p>LIGHTED EXIT SIGN - DOUBLE FACED DARKENED AREA INDICATES FACE OF SIGN VIEWED</p> <p>LIGHTED DIRECTIONAL EXIT SIGN - SINGLE FACED ARROW INDICATES DIRECTION(S) TO EXIT</p> <p>LIGHTED DIRECTIONAL EXIT SIGN - DOUBLE FACED ARROW INDICATES DIRECTION(S) TO EXIT</p> <p>EXISTING EXIT SIGN TO REMAIN</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

GENERAL NOTES:

1. ALL FIXTURES AND DEVICES SHALL BE INSTALLED ON THE CENTERLINE OF CEILING TILE OR SPACE UNLESS OTHERWISE NOTED.
2. ALL SOFFITS SHALL ALIGN WITH WALLS OR CORNERS AT ALL LOCATIONS WHERE SOFFITS MEET WALLS OR CORNERS AS TO PROVIDE A FLUSH FINISH.
3. TAPE AND FINISH ALL INSIDE JOINTS.
4. PROVIDE CORNER BEADS FOR ALL OUTSIDE JOINTS.
5. CONTRACTOR TO COORDINATE ALL DISCIPLINES TO ENSURE ALL DUCTWORK, EQUIPMENT, FIXTURES, PIPES, CONDUITS, SUSPENSION AND ACOUSTIC SYSTEMS NECESSARY TO MAINTAIN CEILING ELEVATIONS.
6. CONTRACTOR TO COORDINATE ALL DUCT LOCATIONS W. OTHER TRADES. ARCHITECT TO REVIEW AND HAVE FINAL APPROVAL FOR ALL EXPOSED CEILING SURFACES.
7. ALL EXTERIOR STUCCO CEILING FRAMING TO BE PROVIDED IN SHOP DRAWINGS BY SPECIFIED STRUCTURAL ENGINEER.

CODED NOTES:

- 1 INSERT NEW GRID MATCHING EXISTING TO EXTEND TO NEW WALLS. PROVIDE EDGE ANGLE ALONG FACE OF WALL.
- 2 PROVIDE NEW ACT AND GRID SYSTEM THROUGHOUT THIS AREA.
- 3 NEW WALLS TO EXTEND TO DECK ABOVE
- 4 NEW ILLUMINATED EXIT SIGNAGE
- 5 PATCH/REPAIR ANY CEILING DAMAGED DURING INSTALLATION OF NEW TRANSACTION WINDOW
- 6 PATCH/REPAIR ANY EXTERIOR STUCCO SOFFIT DAMAGED DURING INSTALLATION OF NEW OPENING



宋
Song + Associates

Architecture • Planning • Interior Design

1545 Centrepark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482

AA - 0003165 IB - 0001095

Seal:

Name: PERRY DOUGLASS
License #: AR 97112

Consultants:

COPYRIGHT © 2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications without the written consent of Song & Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions:

Date: 09/19/2018

S+A Project No: 18033

Owner Project No:

Drawn By: PD/WS

Checked By: PD

Phase: CONSTRUCTION DOCUMENTS

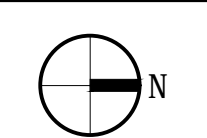
Sheet Title: REFLECTED CEILING PLAN

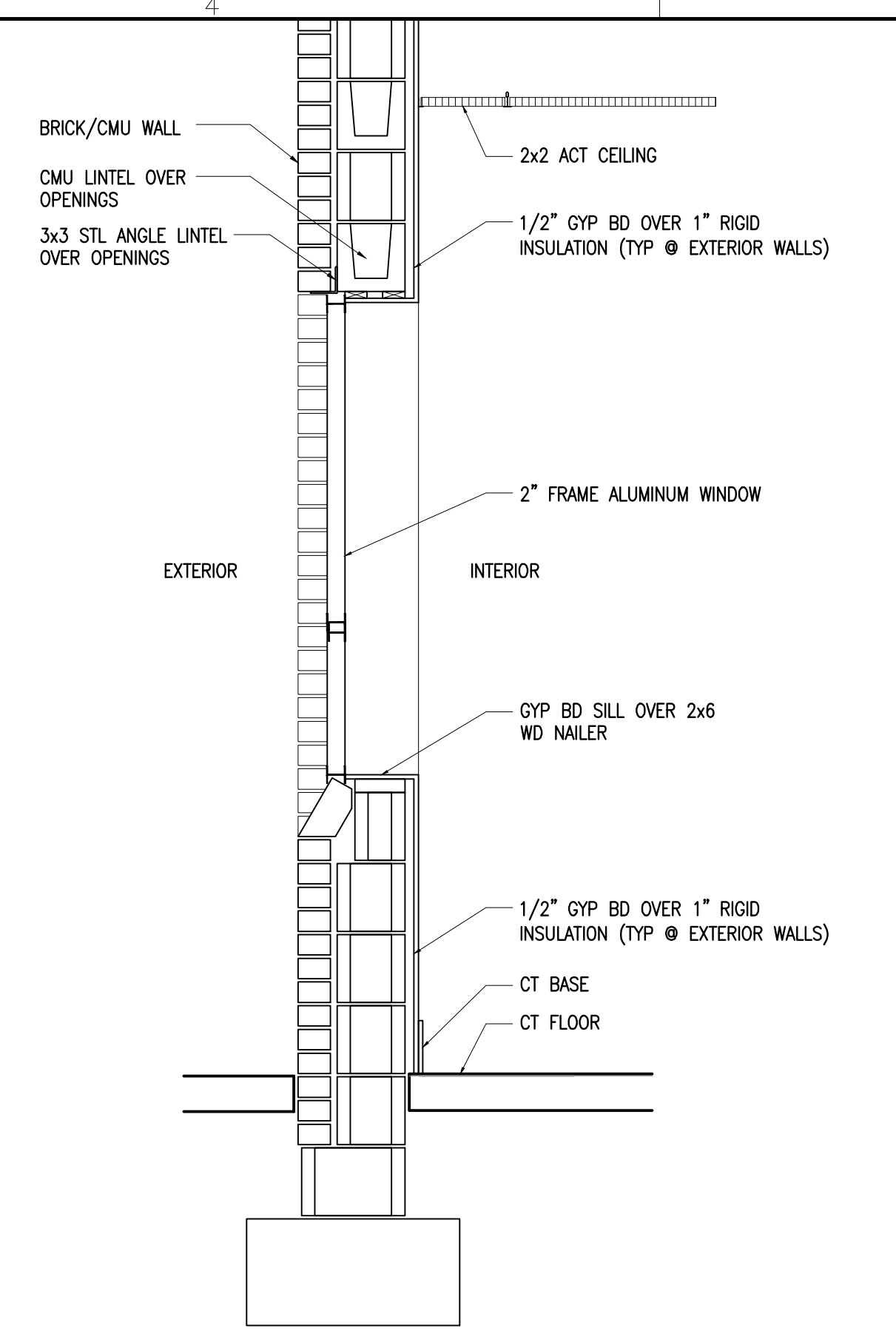
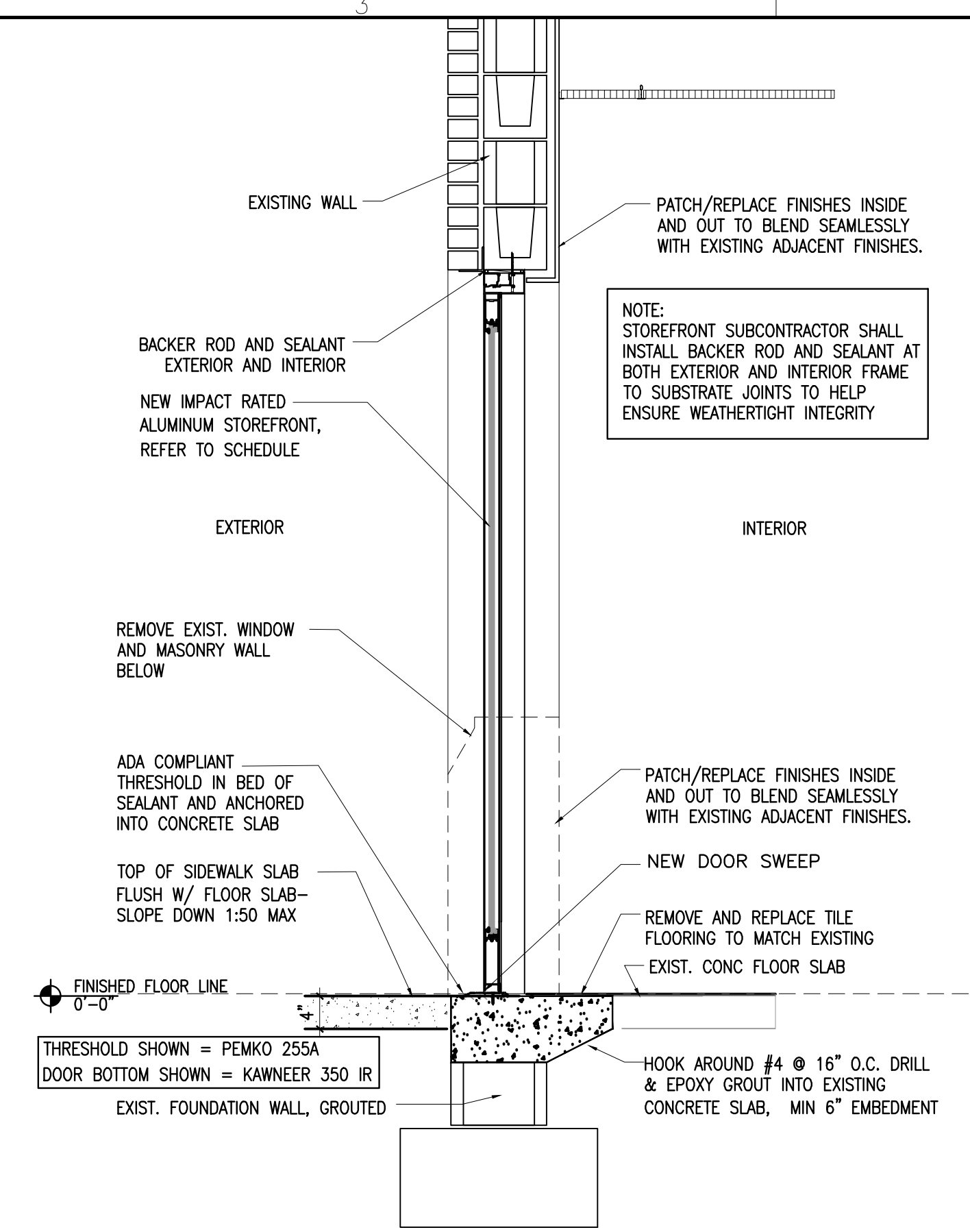
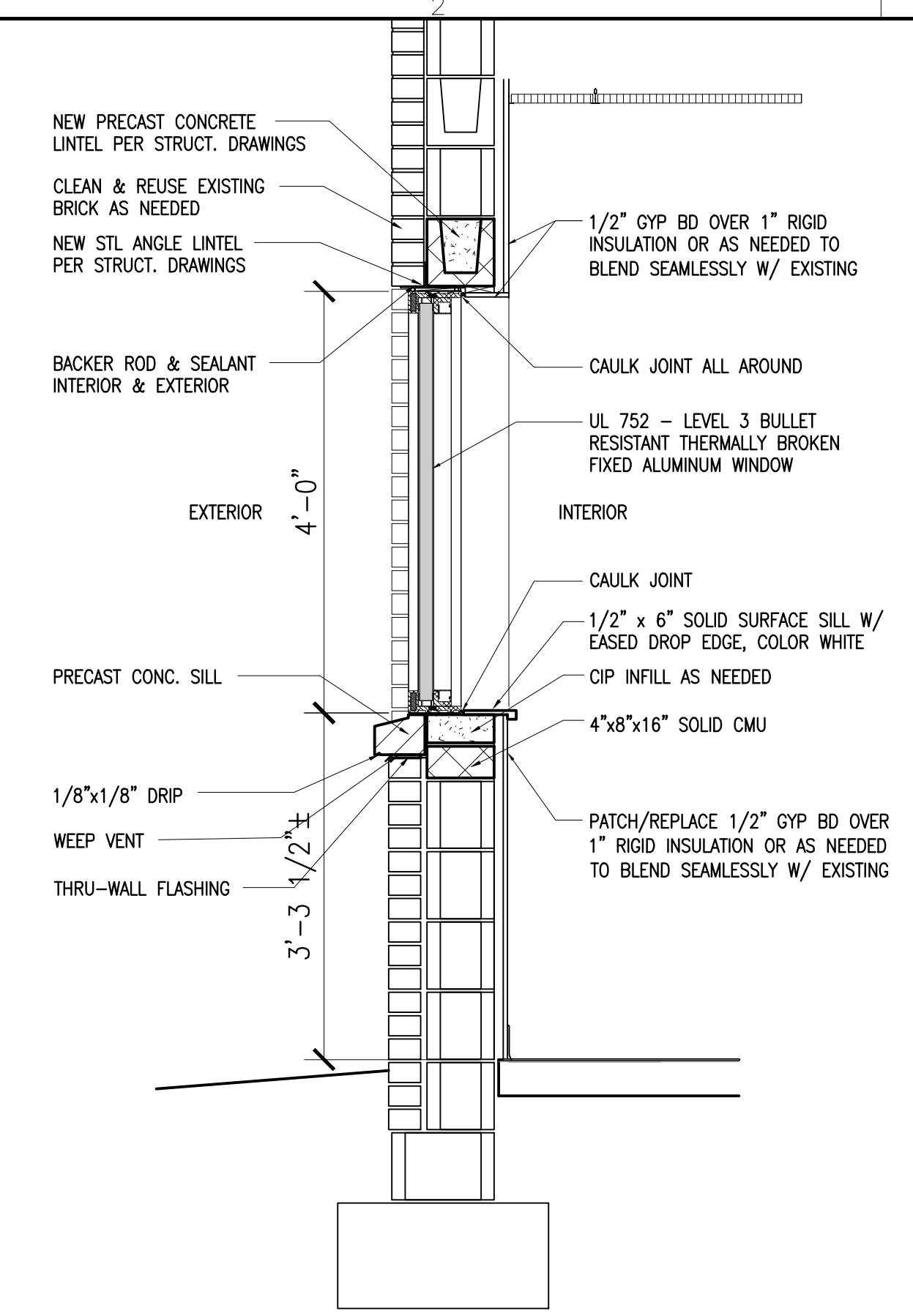
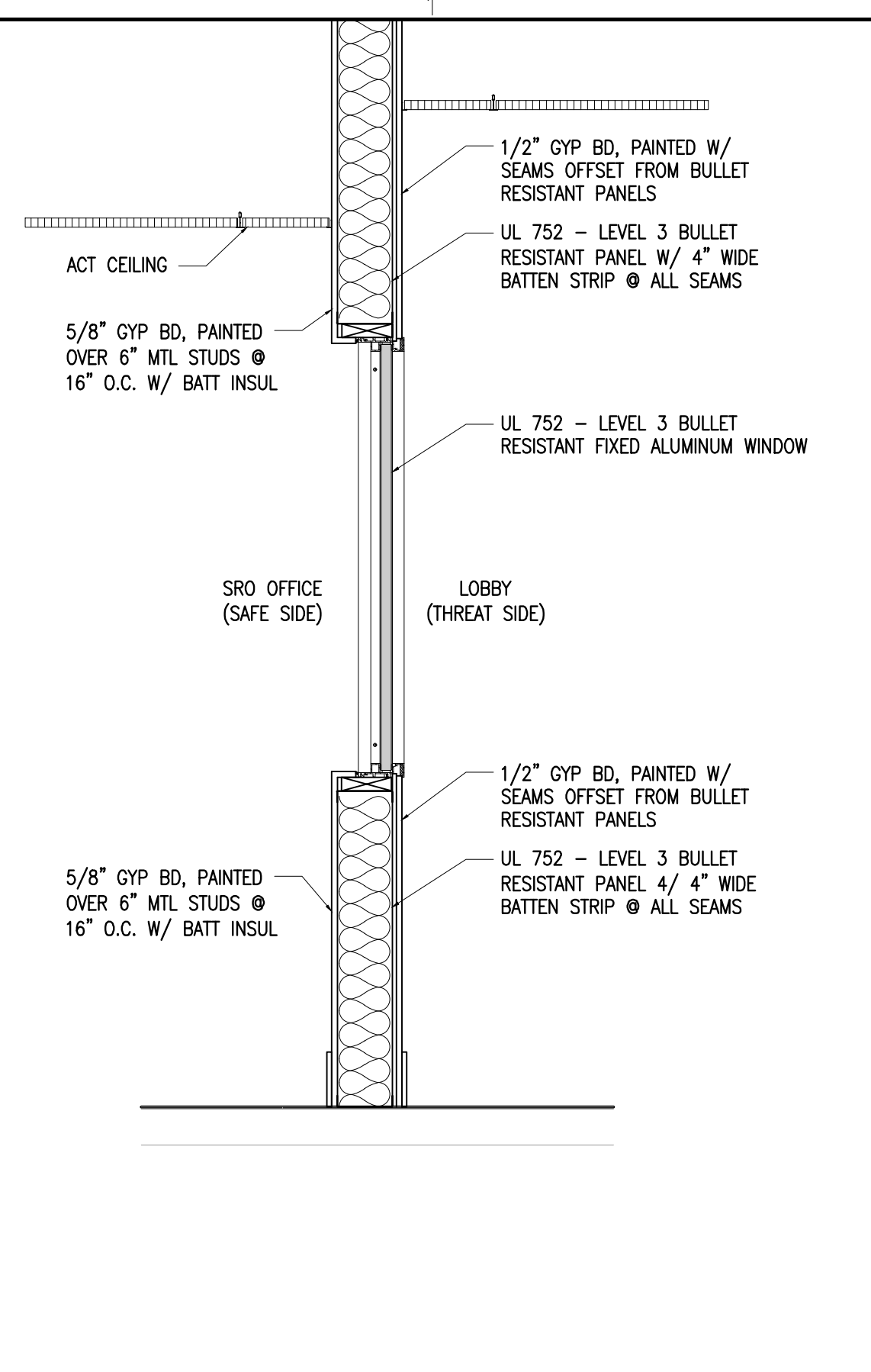
Sheet #: A-121

PARTIAL FLOOR PLAN

01

1/4"=1'-0"





CASEWORK GENERAL NOTES

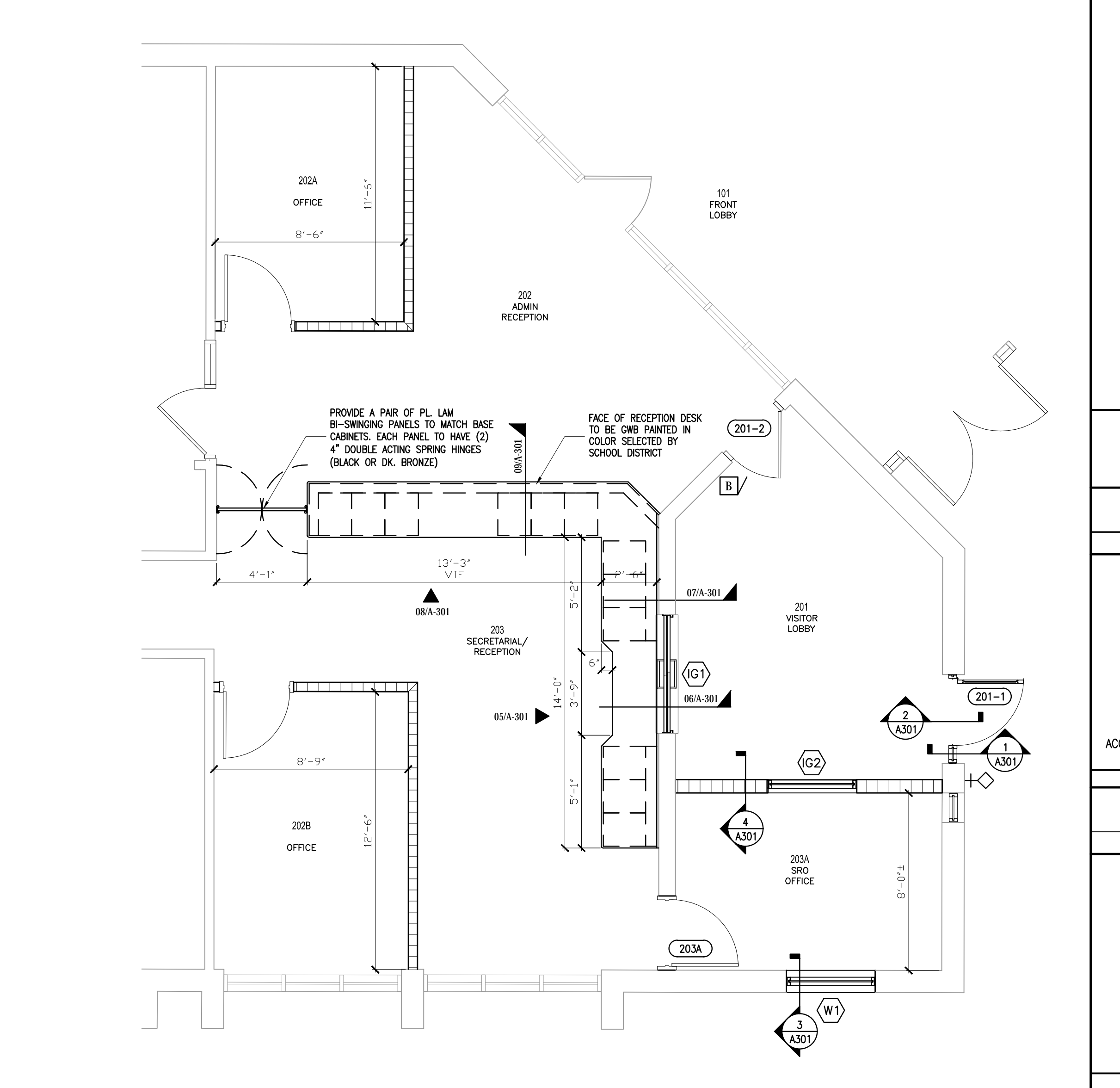
- SOLID SURFACE BASIS OF DESIGN: CORIAN BY DUPONT. COLOR: GLACIER WHITE
- CABINET DOORS AND DRAWERS TO BE SLAB STYLE PROFILE TO MATCH EXISTING. GC TO PROVIDE COLOR SAMPLES FROM PRODUCT LINE SELECTED FOR OWNER TO SELECT.
- PULLS: SOLID ALUMINUM OR STAINLESS-STEEL WIRE PULLS, FASTENED FROM BACK WITH TWO SCREWS. FOR SLIDING DOORS, PROVIDE RECESSED STAINLESS STEEL FLUSH PULLS. PROVIDE TWO PULLS FOR DRAWERS MORE THAN 24 INCHES WIDE. PULL DESIGN SHALL COMPLY WITH AMERICANS WITH DISABILITY ACT (ADA).
- PULLS: SOLID ALUMINUM OR STAINLESS-STEEL WIRE PULLS, FASTENED FROM BACK WITH TWO SCREWS. FOR SLIDING DOORS, PROVIDE RECESSED STAINLESS STEEL FLUSH PULLS. PROVIDE TWO PULLS FOR DRAWERS MORE THAN 24 INCHES WIDE. PULL DESIGN SHALL COMPLY WITH AMERICANS WITH DISABILITY ACT (ADA).
- CONCEALED HINGES: BLUM 120 W/ PLATE CLIP-ON SELF CLOSING
- DRAWER SLIDES: KV 100LB CAPACITY FULL EXTENSION

WALL SECTION 04
INTERIOR WALL/WINDOW @ SRO OFFICE
3/4"=1'-0"

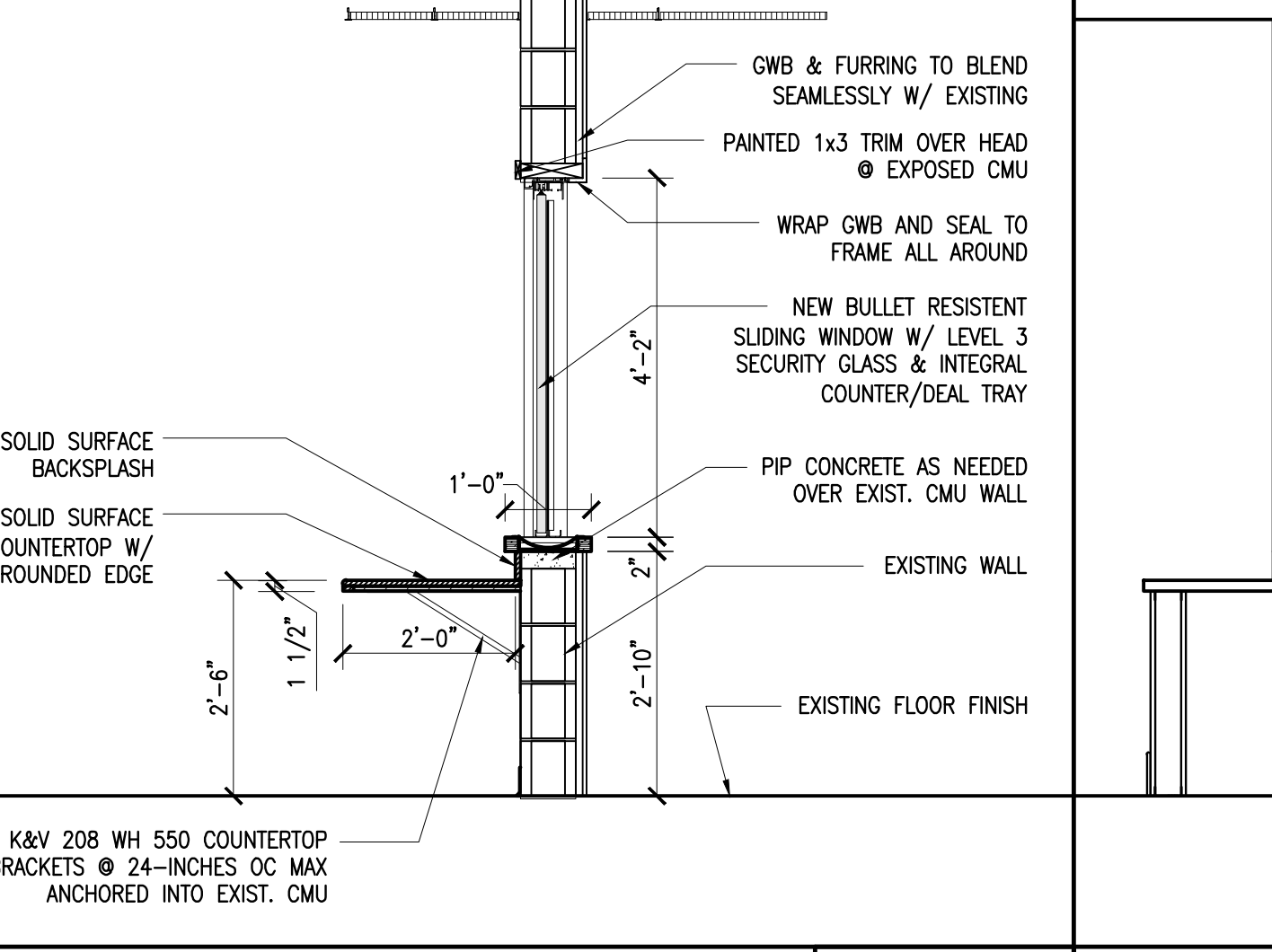
WALL SECTION 03
EXTERIOR WINDOW @ SRO OFFICE
3/4"=1'-0"

WALL SECTION 02
NEW ALUMINUM ENTRANCE DOOR
3/4"=1'-0"

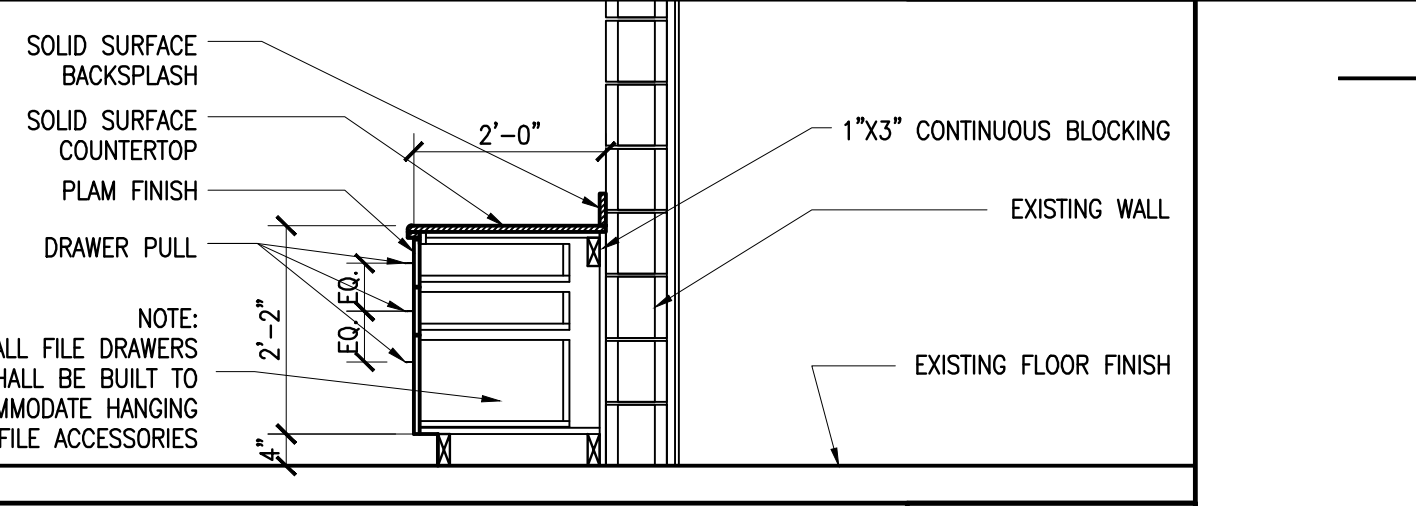
EXISTING WALL SECTION 01
FOR REFERENCE
3/4"=1'-0"



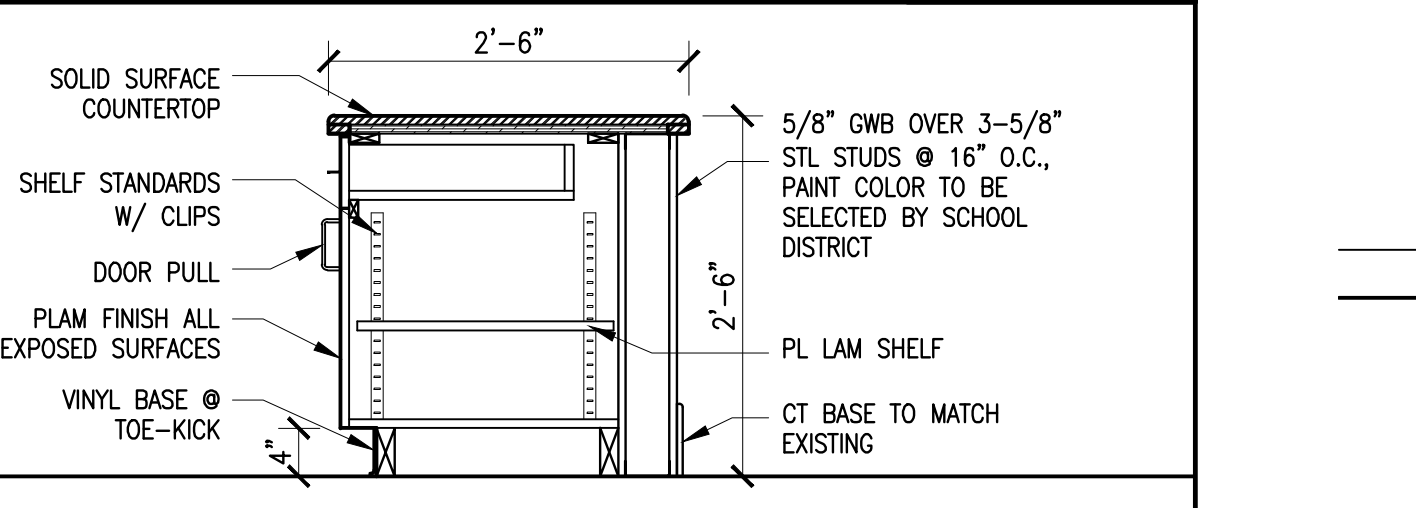
ANNOTATED PLAN 10
1/4"=1'-0"



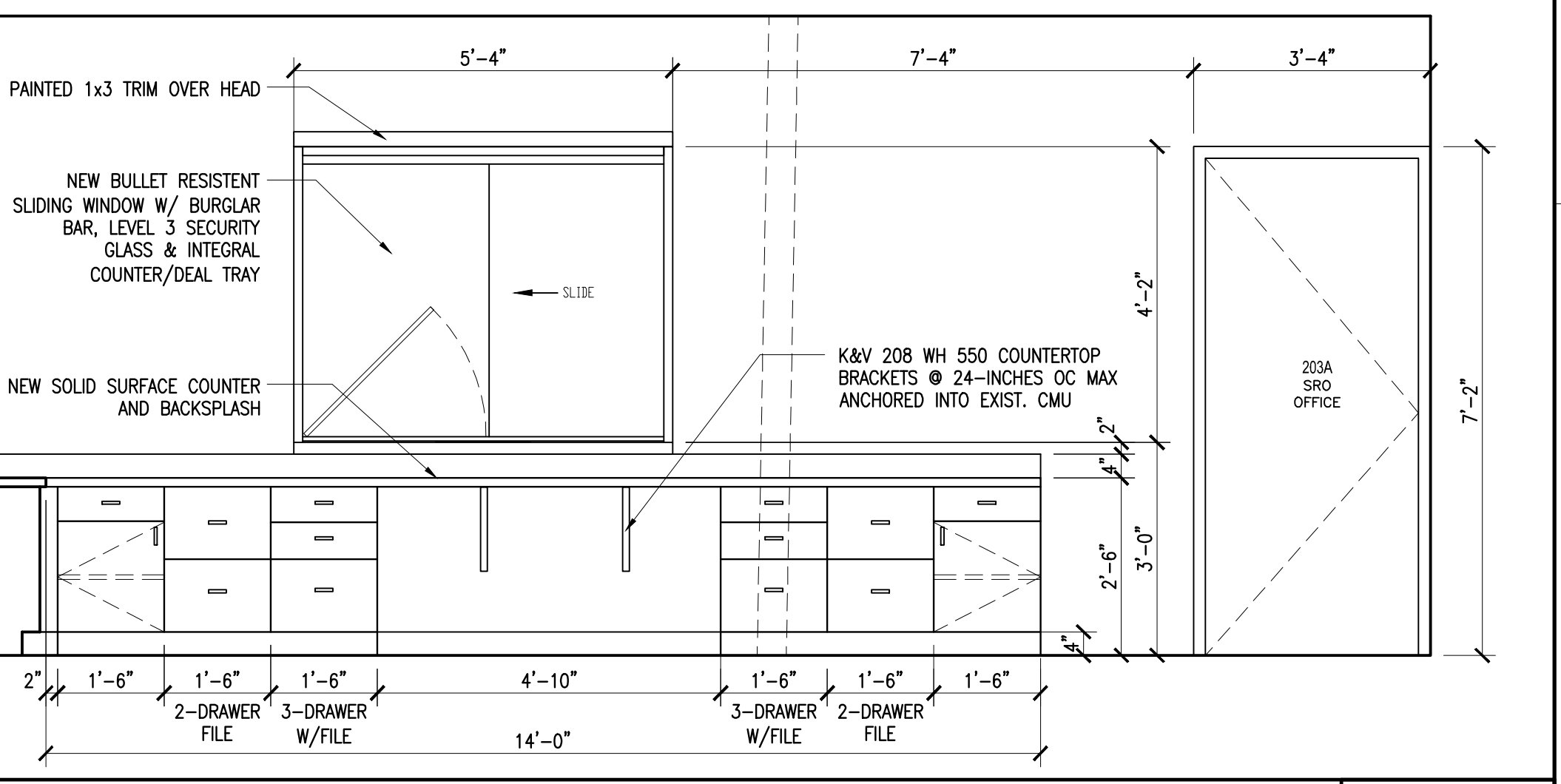
CASEWORK SECTION 06
1/2"=1'-0"



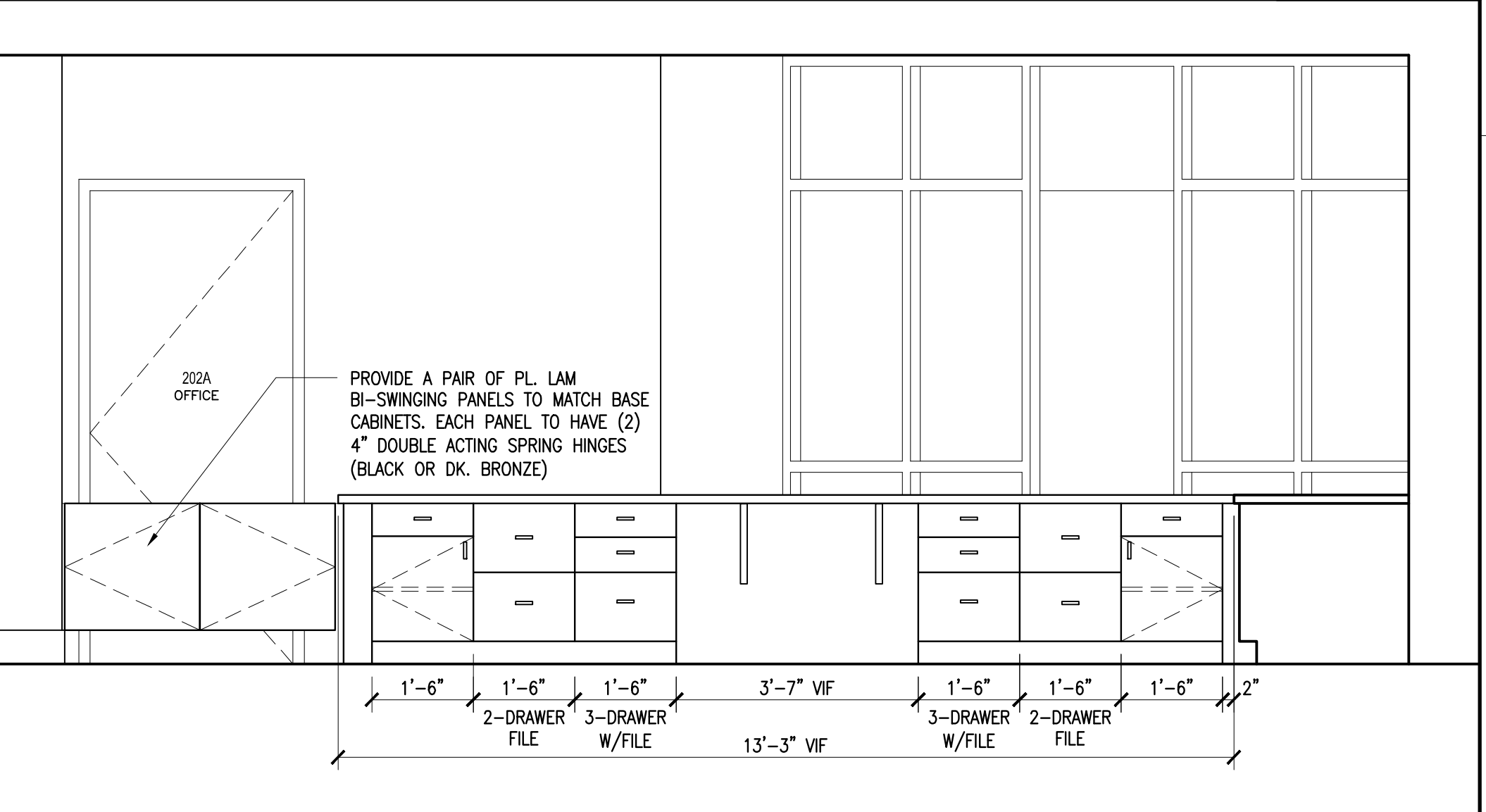
CASEWORK SECTION 07
1/2"=1'-0"



CASEWORK SECTION 09
3/4"=1'-0"



CASEWORK ELEVATION 05
1/2"=1'-0"



CASEWORK ELEVATION 08
1/2"=1'-0"

宋 Song + Associates
Architecture • Planning • Interior Design
1545 Centrepark Drive North West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482
AA - 0003165 IB - 0001095
Seal: PERRY DOUGLASS AR97112
Name: PERRY DOUGLASS
License #: AR 97112
Consultants:

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION

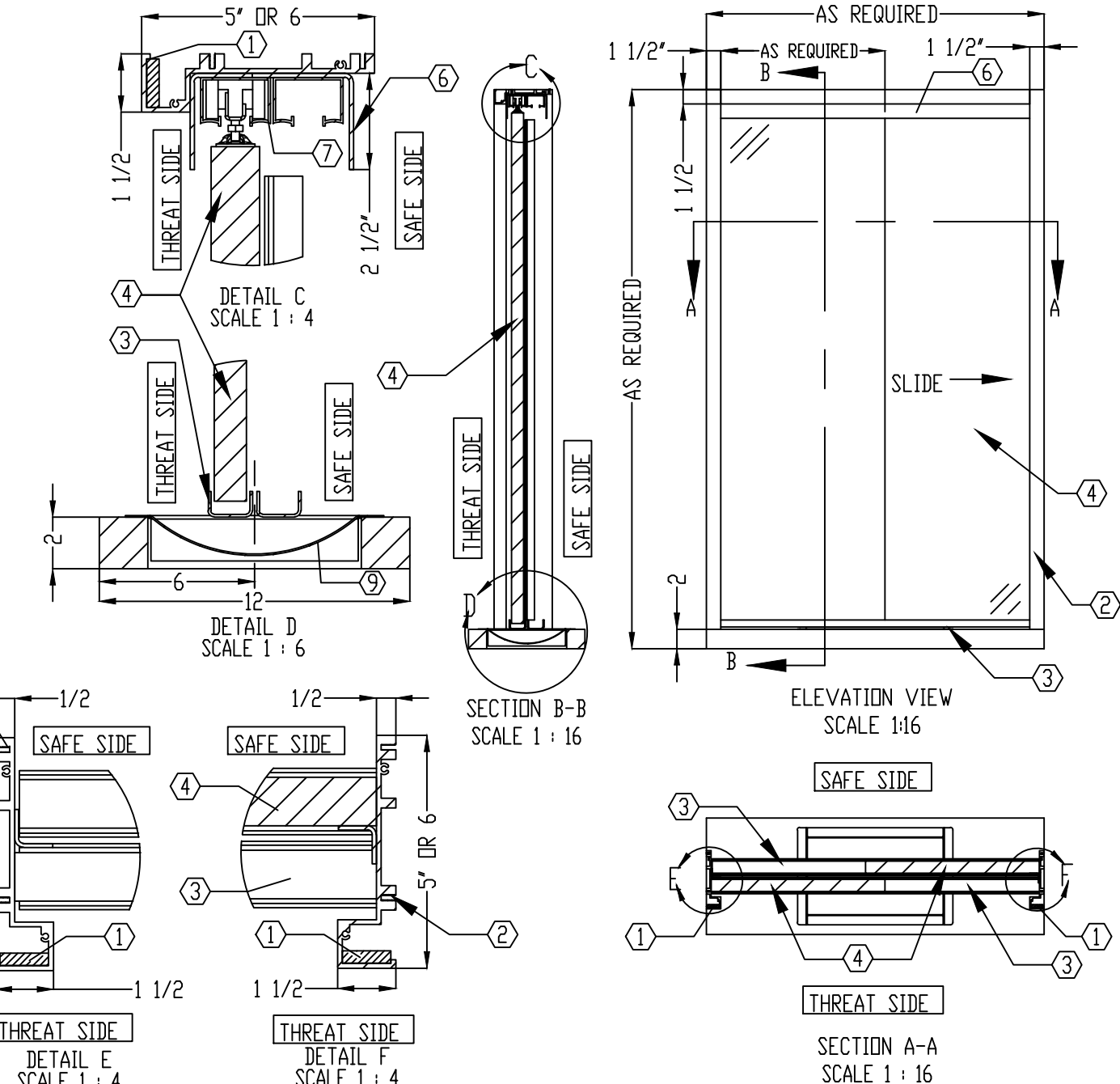
School District of Indian River County
SINGLE POINT OF ENTRY RENOVATION
PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR. SEBASTIAN, FL 32958

Revisions:

Date: 09/19/2018
S+A Project No.: 18033
Owner Project No.:
Drawn By: PD/WS
Checked By: PD
Phase: CONSTRUCTION DOCUMENTS
Sheet Title: WALL SECTIONS AND DETAILS
Sheet #: A-301

NOTES:

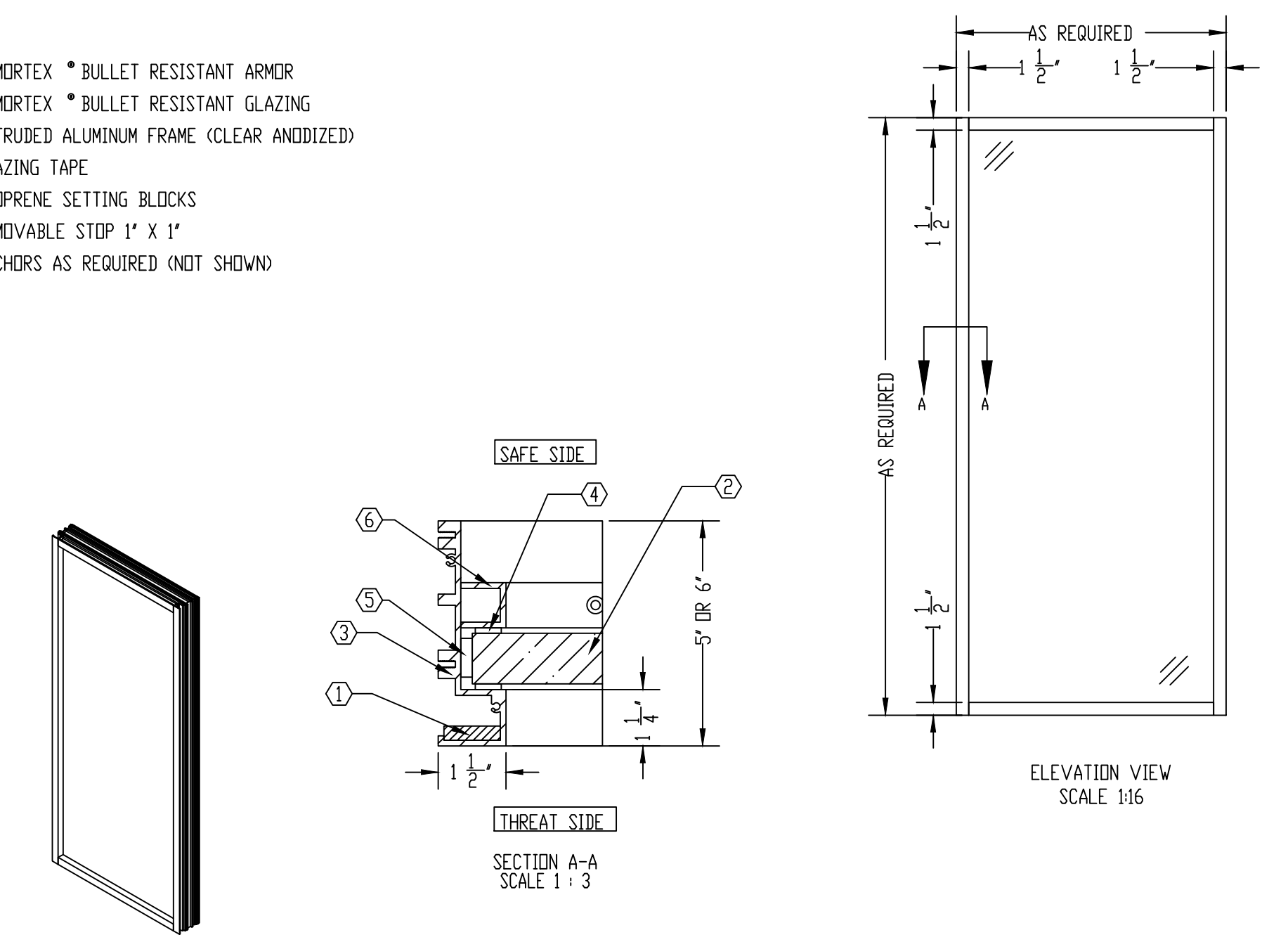
- ① ARMORTEX * BULLET RESISTANT ARMOR
- ② EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ③ STAINLESS STEEL TRACK
- ④ ARMORTEX * BULLET RESISTANT GLAZING
- ⑤ 1/4" Ø QUICK RELEASE PIN W/ NYLON COATED CABLE (NOT SHOWN)
- ⑥ DOUBLE STAINLESS STEEL ROLLER GUARD
- ⑦ ROLLER TRACK
- ⑧ HANDPULL (NOT SHOWN)
- ⑨ STAINLESS STEEL DEAL TRAY
- ⑩ HIGH PRESSURE LAMINATED BLACK PLASTIC SHELF (STAINLESS STEEL OPTIONAL)
- ⑪ ANCHORS AS REQUIRED (NOT SHOWN)



SCALE: AS NOTED	TITLE: TRANSACTION WINDOW ALUMINUM SLIDING	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-24-2015	MODEL: WI-TW-AL-SW	PROJECT: SRO OFFICE - WINDOW TYPE IG1	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	TEL: 281-441-8200 800-988-8200 FAX: 281-441-8200	WWW.ARMORTEX.COM

NOTES:

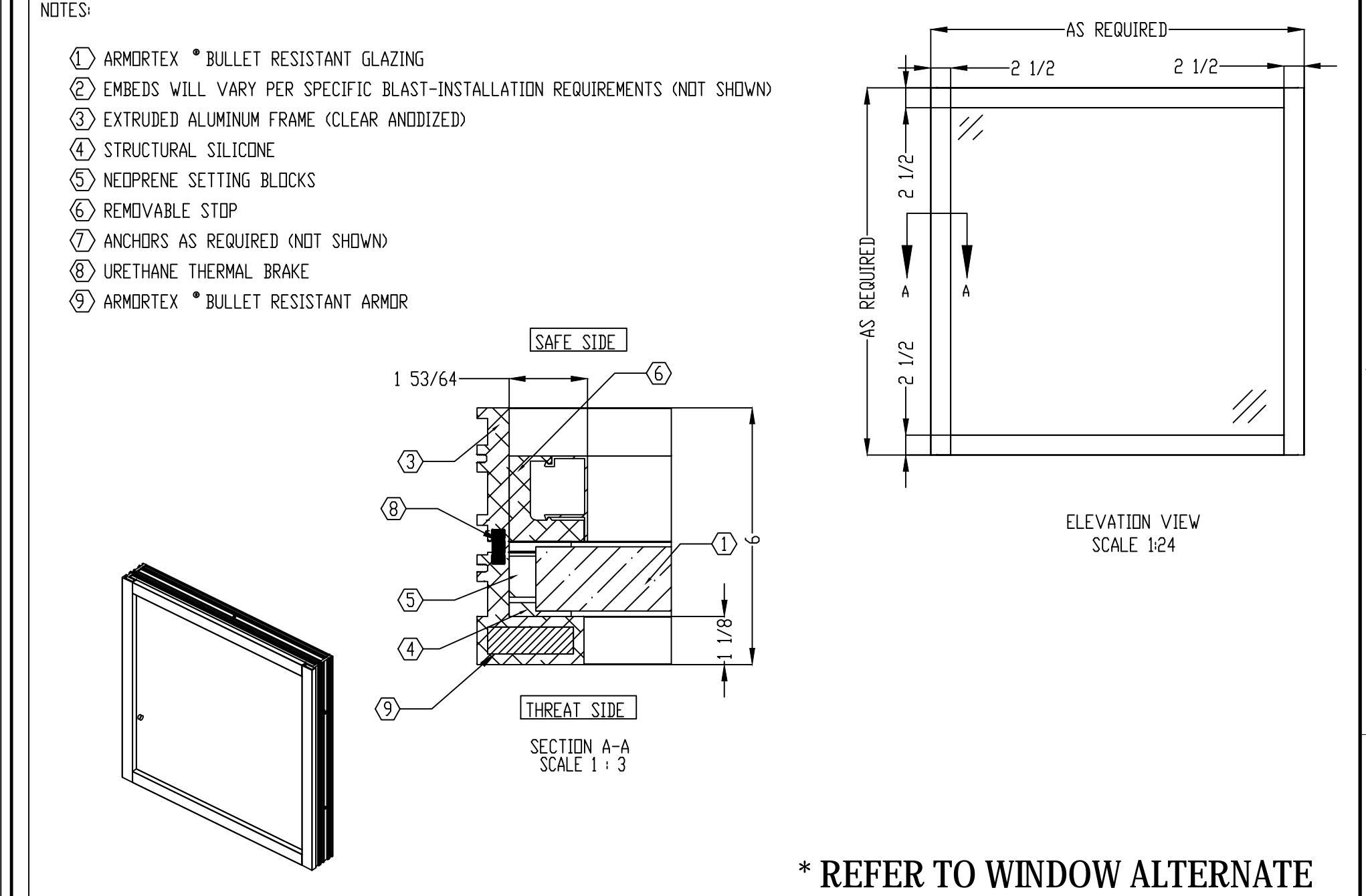
- ① ARMORTEX * BULLET RESISTANT ARMOR
- ② ARMORTEX * BULLET RESISTANT GLAZING
- ③ EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ④ GLAZING TAPE
- ⑤ NEOPRENE SETTING BLOCKS
- ⑥ REMOVABLE STOP 1" X 1"
- ⑦ ANCHORS AS REQUIRED (NOT SHOWN)



SCALE: AS NOTED	TITLE: FIXED WINDOW ALUMINUM	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-18-2015	MODEL: WI-FW-AL-RS	PROJECT: SRO OFFICE - WINDOW TYPE IG2	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	TEL: 281-441-8200 800-988-8200 FAX: 281-441-8200	WWW.ARMORTEX.COM

NOTES:

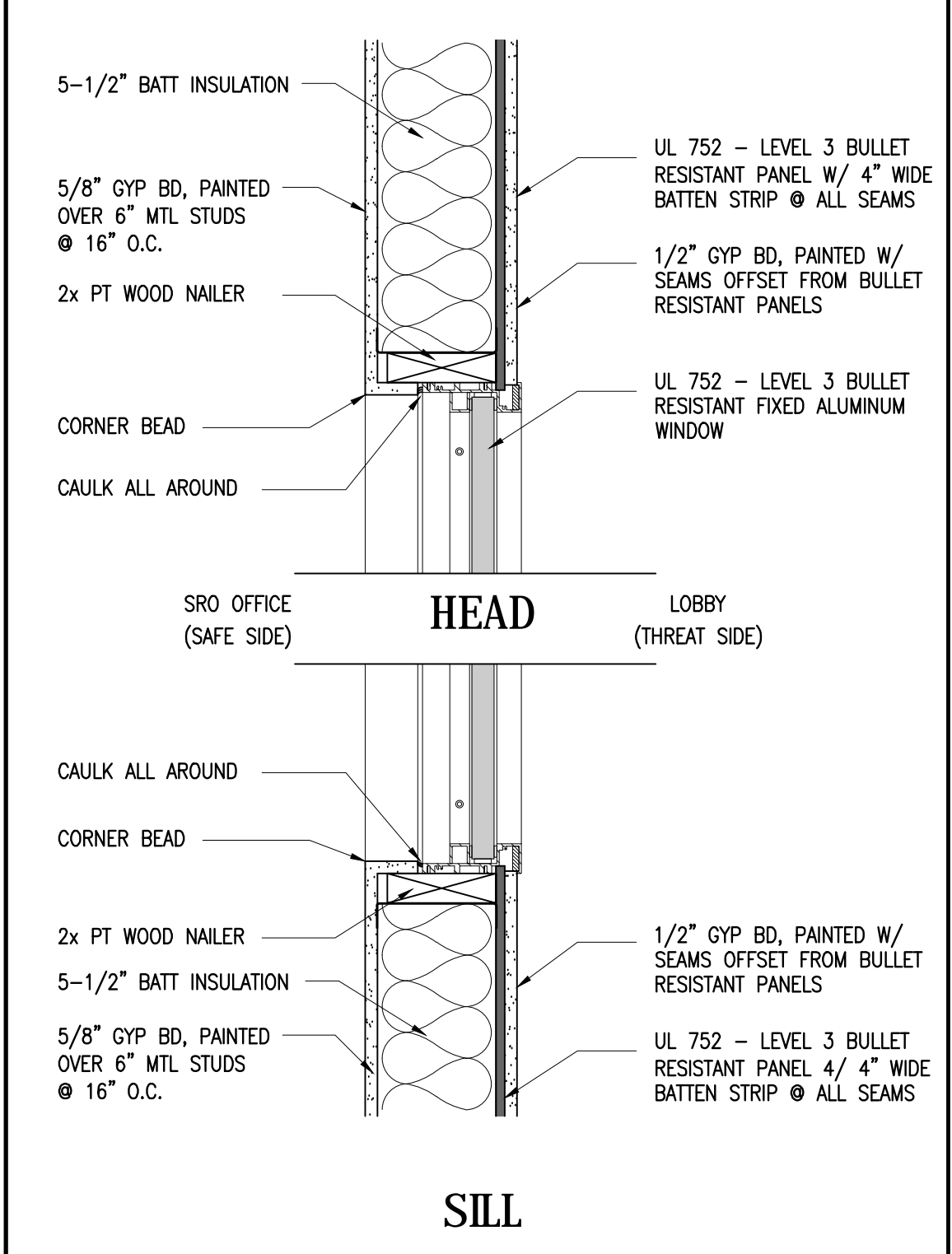
- ① ARMORTEX * BULLET RESISTANT GLAZING
- ② EMBEDS WILL VARY PER SPECIFIC BLAST-INSTALLATION REQUIREMENTS (NOT SHOWN)
- ③ EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ④ STRUCTURAL SILICONE
- ⑤ NEOPRENE SETTING BLOCKS
- ⑥ REMOVABLE STOP
- ⑦ ANCHORS AS REQUIRED (NOT SHOWN)
- ⑧ URETHANE THERMAL BRAKE
- ⑨ ARMORTEX * BULLET RESISTANT ARMOR



SCALE: AS NOTED	TITLE: FIXED WINDOW THERMALLY BROKEN	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	ARMORTEX
DATE: 06-22-2015	NOTE: WI-FW-AL-TB	PROJECT: SRO OFFICE - WINDOW TYPE W1	5926 CORRIDOR PKWY SCHERTZ, TX 78154
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	TEL: 281-441-8200 800-988-8200 FAX: 281-441-8200	WWW.ARMORTEX.COM

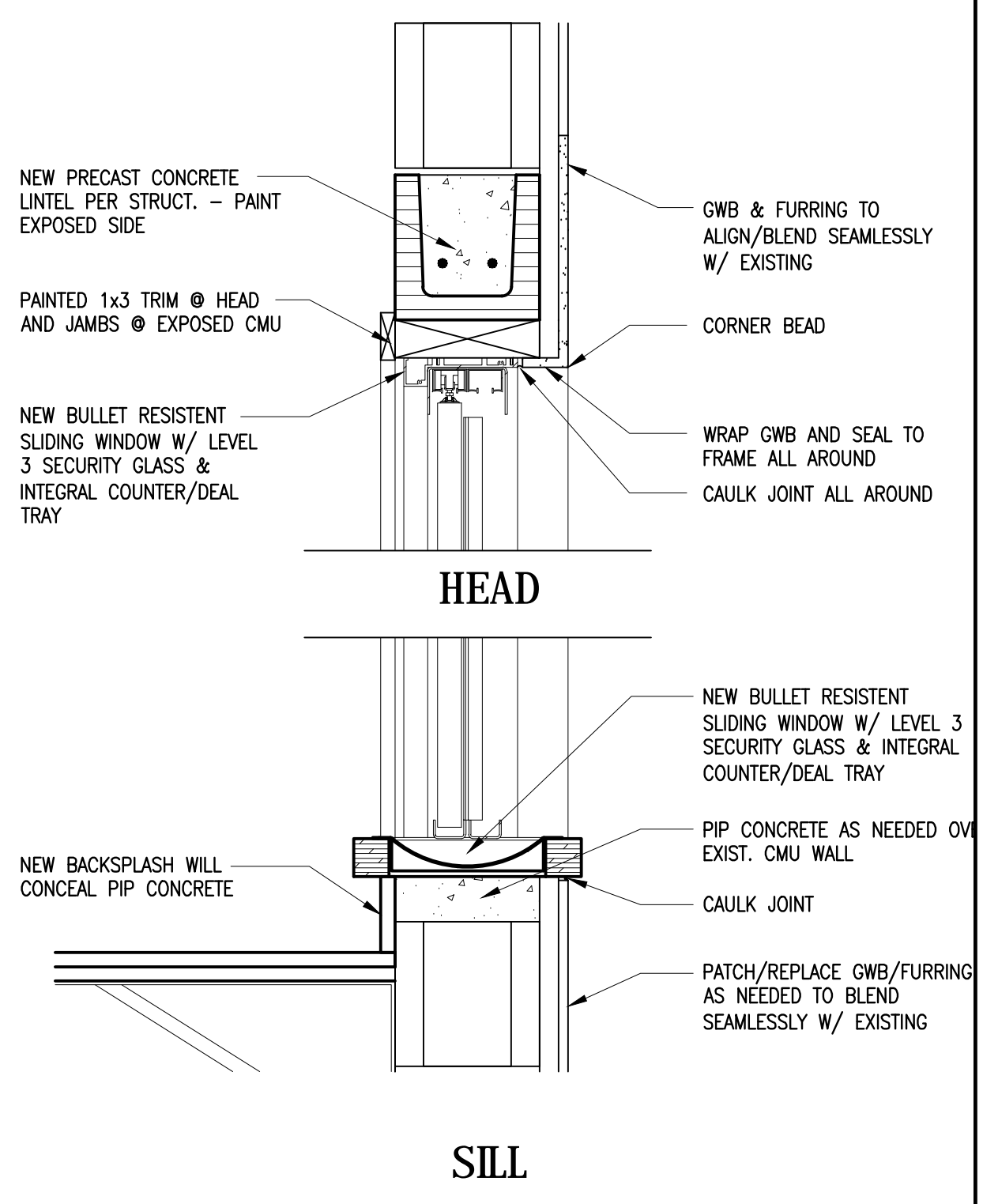
* REFER TO WINDOW ALTERNATE

IG1



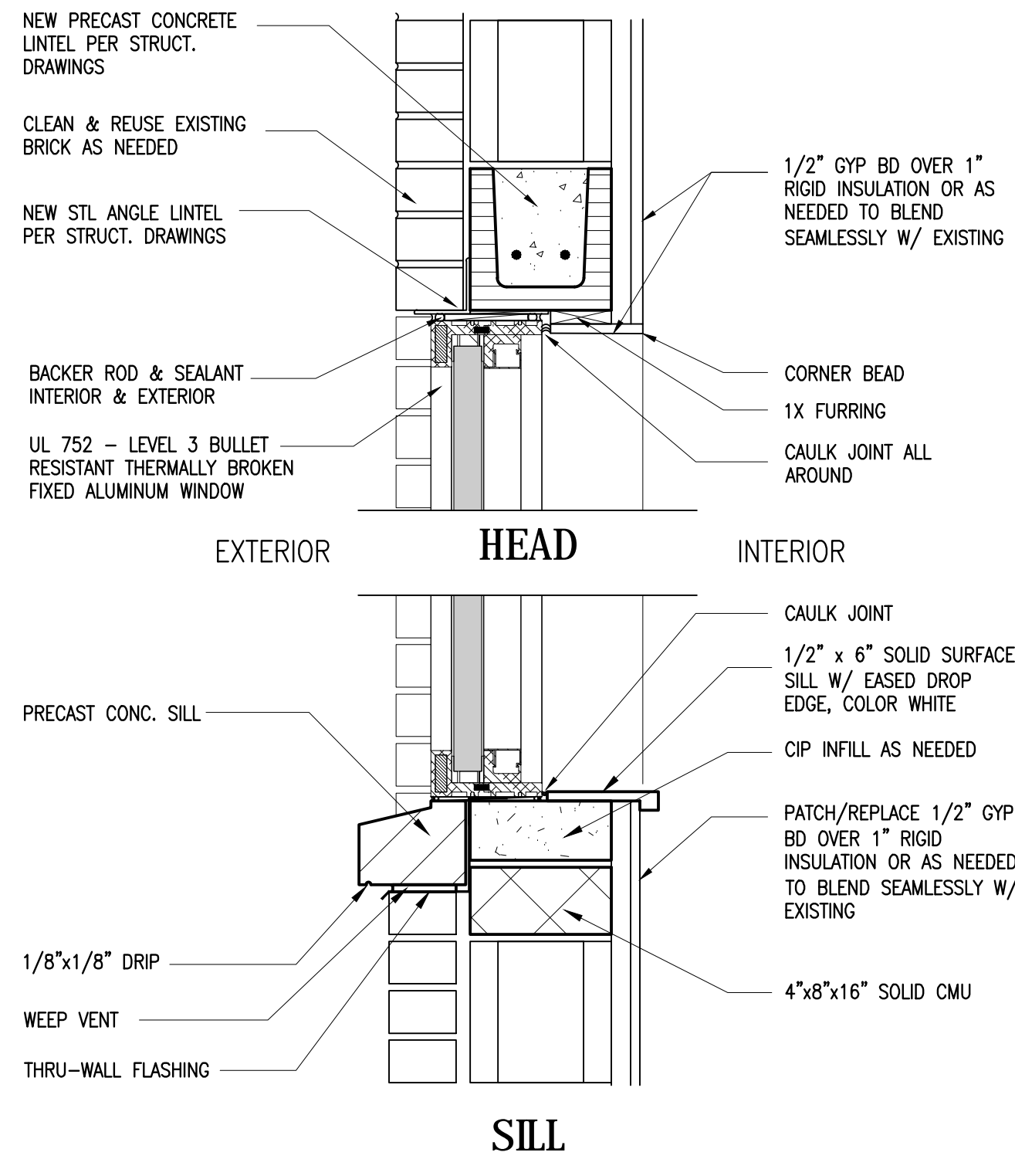
INTERIOR WINDOW DETAILS 05
SRO OFFICE - WINDOW TYPE IG2 1-1/2"=1'-0"

IG2



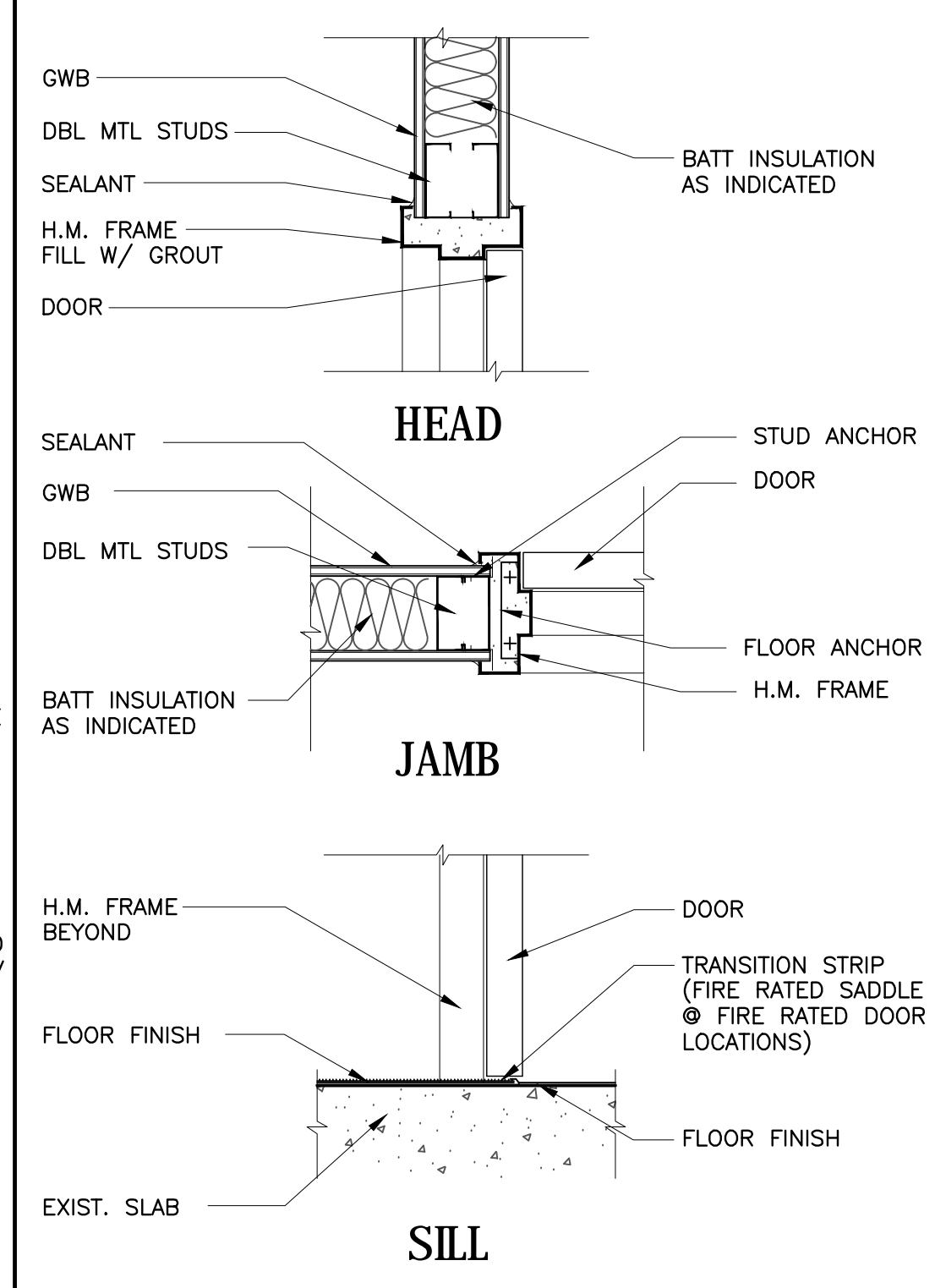
TRANSACTION WINDOW DETAILS 04
WINDOW TYPE IG1 1-1/2"=1'-0"

IG2



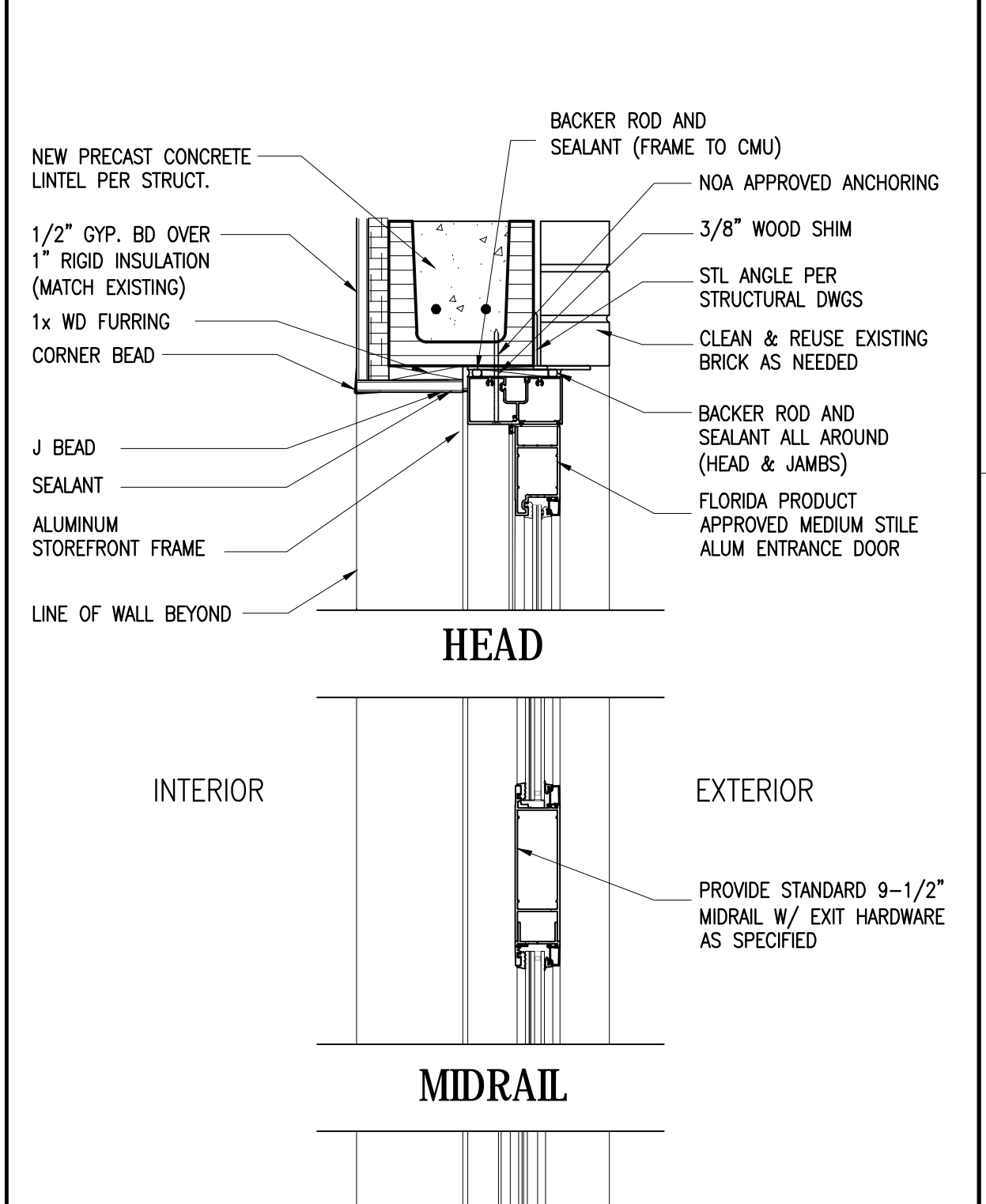
EXTERIOR WINDOW DETAILS 03
SRO OFFICE - WINDOW TYPE W1 1-1/2"=1'-0"

W1



HM DOOR FRAME DETAILS 02
1-1/2"=1'-0"

W1



ALUMINUM ENTRANCE DETAILS 01
1-1/2"=1'-0"

DOOR & WINDOW SCHEDULE										
DOOR	DOORS			FRAMES			DETAILS			REMARKS
	SIZE	MAT	TYPE	SIZE	MAT	TYPE	HEAD	JAMB	SILL	
201-1	3070	AL	FG		AL	F1	REFER TO SECTION DETAILS 01/A-212			1, 2, 3, 4
201-2	3070	EXST	EXST		EXST	EXST				3
202A	3070	WD	D1		HM	F2	REFER TO SECTION DETAILS 02/A-212			
203A	3070	WD	D1		HM	F2	REFER TO SECTION DETAILS 02/A-212			
203B	3070	EXST	EXST		EXST	EXST				

WINDOW ALTERNATE

ALT. A-1: FOR WINDOW TYPE W-1, PROVIDE PRICING TO PROVIDE CLEAR ANODIZED THERMALLY BROKEN ALUMINUM FRAME WINDOW, YKK AP SERIES YCW 700 OR APPROVED EQUIVALENT, WITH LARGE MISSILE IMPACT RESISTANT GLAZING IN LIEU OF BULLET RESISTANT SYSTEM SPECIFIED.

GLAZING:

- THICKNESS: 0.060" (MINIMUM, BUT NOT LESS THAN REQUIRED TO MEET IMPACT REQUIREMENTS.
- CLEAR INTERLAYER BETWEEN TWO 1/4" HEAT-STRENGTHENED GLASS, CLEAR INBOARD, CLEAR OUTBOARD.

HARDWARE SCHEDULE

Qty	Description	Catalog Number	Finish	Mfr
Hardware Group No. 01 For use on mark/door #s): 201-1				
3EA	HW HINGE	3CB1HW 4.5 X 4.5 NRP	630	IVE
1EA	POWER TRANSFER	EPT10 CON	689	VON
1EA	ELEC PANIC HARDWARE	QEL-98-NL-COIN	626	VON
1EA	MORTISE CYLINDER	1000	626	C-R
1EA	RM CYLINDER	3000	626	C-R
1EA	SURF. AUTO OPERATOR	9542 LONG2 MS	626	LN
1EA	KEYSWITCH	8310-806K	BLK	LN
2EA	ACTUATOR, WALL MOUNT	8310-856	630	LN
1EA	THRESHOLD	65A-MSL-1-10	A	ZER
1EA	WIRE HARNESS CON-12P	CON-12P	A	VON
1EA	WIRE HARNESS CON-6P	CON-6P		VON
1EA	PUSHBUTTON	621AL	629	SZE
1EA	POWER SUPPLY	PS804 900-4RL	LGR	VON
Balance of Door Hardware to be supplied by Aluminum Door Supplier 084100 verify door function before installation - wiring diagram by hardware supplier				
Hardware Group No. 02 For use on mark/door #s): 201-2				
3EA	HINGE	3CB1 4.5 X 4.5	652	IVE
1EA	CLASSROOM	CL3352 NZD	626	C-R
1EA	SURFACE CLOSER	4040XP	689	LN
1EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
3EA	SILENCER	SR64	GRY	IVE
Hardware Group No. 03 For use on mark/door #s): 202A, 203A, 203B				
Qty	Description	Catalog Number	Finish	Mfr
3EA	HINGE	3PB1 4.5 X 4.5	652	IVE
1EA	CLASSROOM	CL3355 NZD	626	C-R
1EA	WALL STOP	WS406/407CCV	630	IVE
3EA	SILENCER	SR64	GRY	IVE

REMARKS

- 1/2" TEMPERED GLASS, IMPACT RESISTANT.
- PANIC HARDWARE TO BE PROVIDED.
- WIRE FOR REMOTE DOOR RELEASE.
- PROVIDE ALPHONE JO-DVF FLUSH MOUNT VIDEO INTERCOM W/ INTEGRAL ELECTRONIC DOOR LOCK @ 48" AFF. KEYPAD MONITOR TO BE LOCATED AT RECEPTION DESK.

NOTE: EXAMPLE DOOR SIZE DESIGNATION: 3870 = 3'-8" WIDE X 7'-0" HIGH DOOR LEAF SIZE.

宋
Song + Associates

Architecture • Planning • Interior Design

1545 Centrepark Drive North West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482

AA - 0003165 IB - 0001095

Seal: PERRY DOUGLASS ARCHITECT

Name: PERRY DOUGLASS
License #: AR 97112
Consultants:

Copyright © 2017 Song + Associates, Inc. All rights reserved. These drawings and specifications are instruments of service and shall remain the property of Song + Associates, Inc. No part of these drawings or specifications may be reproduced or transmitted in any form or by any means electronic, mechanical, photocopying, recording, or by any information storage and retrieval system without the written consent of Song + Associates, Inc. Reproduction of drawings or specifications without the written consent of Song + Associates, Inc. is prohibited.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
OFFICE OF FACILITIES & CONSTRUCTION

School District of Indian River County

SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND ELEMENTARY SCHOOL
1355 SCHUMANN DR.
SEBASTIAN, FL 32958

Revisions:

Date: 09/19/2018

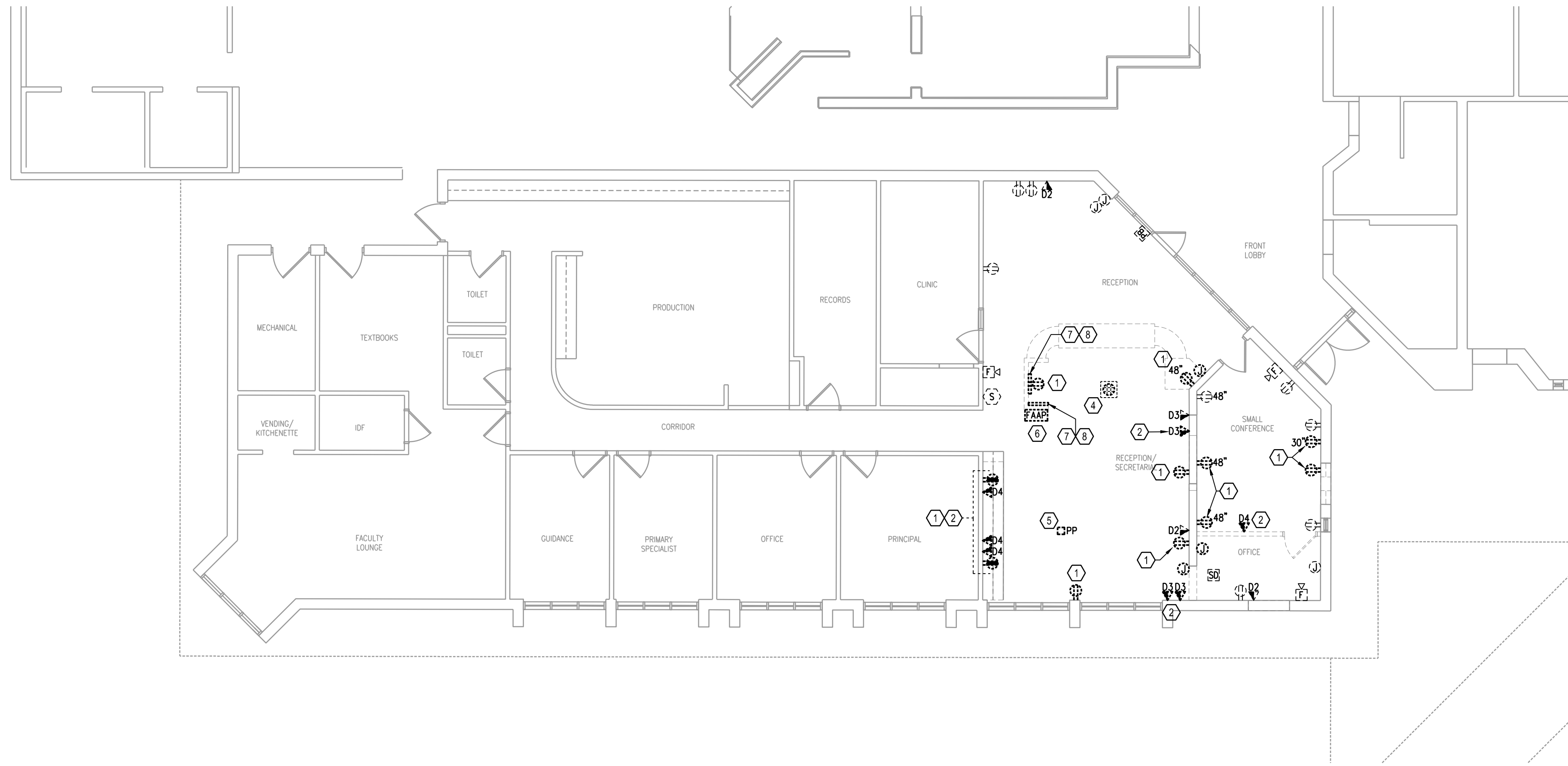
S+A Project No.: 18033

Owner Project No.:
Drawn By: PD/WS
Checked By: PD

Phase: CONSTRUCTION DOCUMENTS

Sheet Title: DOOR / WINDOW SCHEDULE AND DETAILS

Sheet #: A-601



GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
3. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNER'S REQUEST DISPOSED OF BY THE CONTRACTOR.
4. ALL EXISTING ELECTRICAL EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, CONDUIT/WIRING ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.

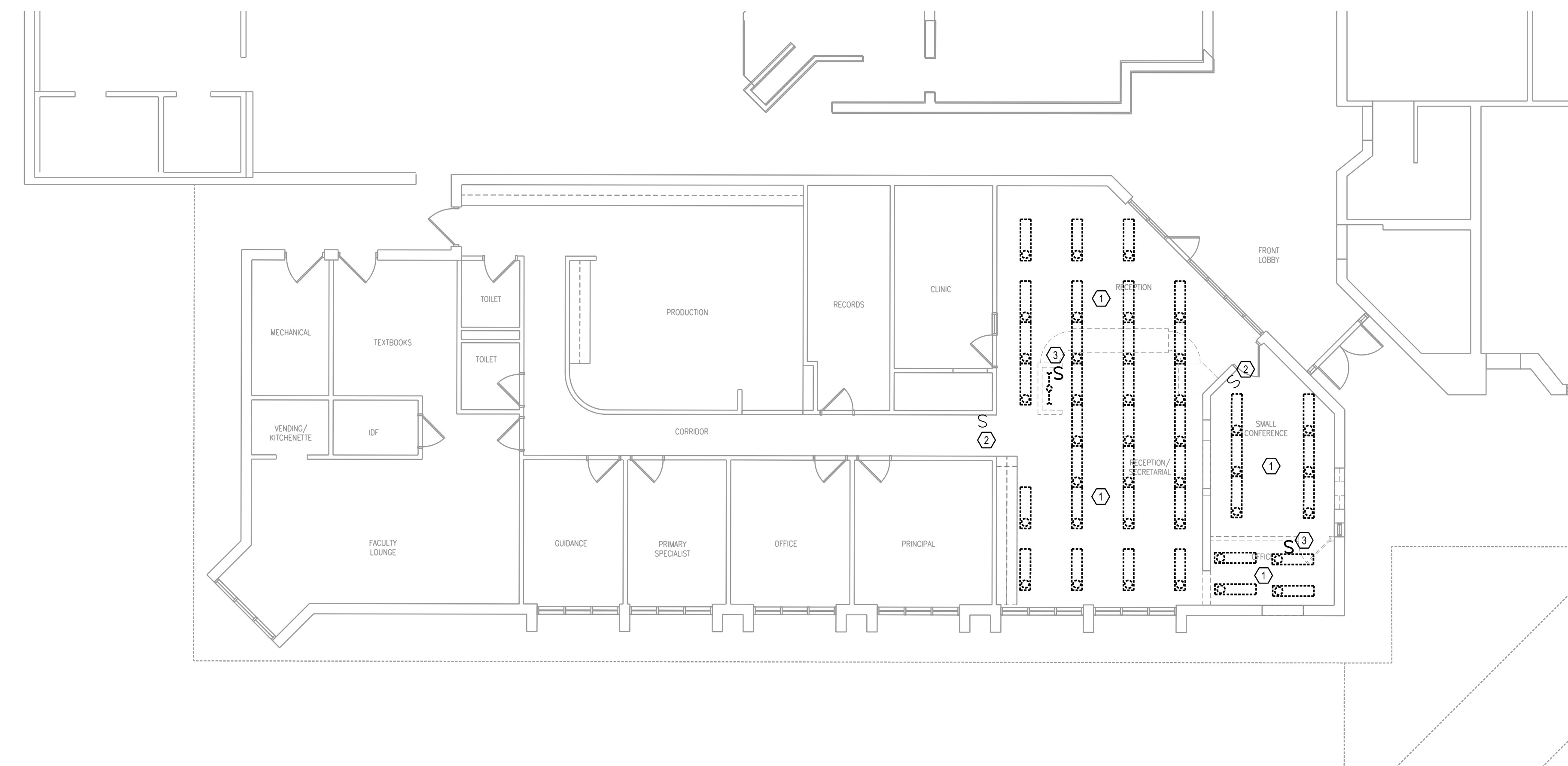
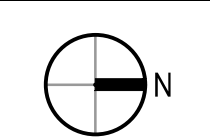
DEMO KEYNOTES (X):

- 1 REMOVE RECEPTACLE(S). RETAIN CIRCUITRY IN NEMA 1 JUNCTION BOX IN ACCESSIBLE CEILING FOR USE IN NEW WORK.
- 2 REMOVE DATA DEVICE(S) FROM WALLS BEING DEMOLISHED. RETAIN DATA DROPS TO BE USED IN NEW WORK. SHOW ON E201
- 3 REMOVE DATA WIRES FROM THIS LOCATION AND RELOCATE TO NEW WORK SHOWN IN E201. BLANK JUNCTION BOX
- 4 REMOVE EXISTING FLOOR RECEPTACLE. REMOVE WIRE BACK TO CLOSET JUNCTION POINT. FILL FLOOR BOX OPENING WITH CONCRETE AND FINISH FLUSH WITH EXISTING FLOOR.
- 5 REMOVE EXISTING POWER POLE. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO ACCESSIBLE CEILING AND RETAIN CIRCUITRY IN NEMA 1 JUNCTION BOX FOR REUSE IN NEW WORK.
- 6 EXISTING FIRE ALARM ANNUNCIATOR PANEL TO BE RELOCATED. PROVIDE ALL NECESSARY ADDITIONAL CONDUIT, WIRE BOXES, ETC. REFER TO NEW WORK SHOWN ON E201.
- 7 CONTRACTOR TO REMOVE ALL CONDUCTORS AND CIRCUITS FROM EXISTING JUNCTION BOXES TO BE REMOVED. CONDUITS CAN BE TERMINATED IN FLOOR BOXES BELOW GRADE.
- 8 EXISTING JUNCTION BOXES TO BE REMOVED FROM KNEEWALL.

DEMO FLOOR PLAN - POWER

01

1/8"=1'-0"



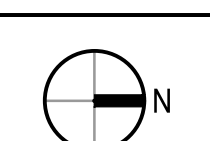
DEMO KEYNOTES (X):

- 1 REMOVE ALL EXISTING LIGHTING SHOWN IN THIS AREA BACK TO FIXTURE CLOSEST TO SOURCE AND RETAIN IN NEMA 1 JUNCTION BOX IN ACCESSIBLE CEILING FOR REUSE IN NEW WORK.
- 2 EXISTING SWITCH(ES) TO REMAIN.
- 3 REMOVE EXISTING SWITCH, BACK BOX AND CONDUIT STUB INTO CEILING IN ITS ENTIRETY.

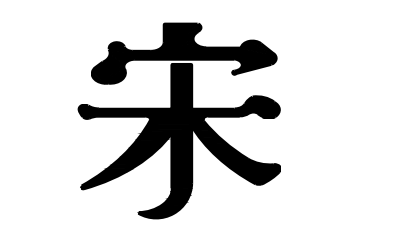
DEMO FLOOR PLAN - LIGHTING

02

1/8"=1'-0"



PRINT DATE: 09/24/2018 4:15 PM. SAVE DATE: 07/19/2018 1:53 PM. FILE LOCATION: J:\085\18084 - RSD\PELICAN ISLAND ES SINGLE PT ENTRY\DWGS\18084ED-201.DWG



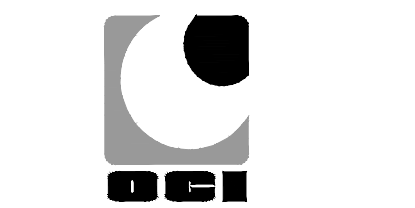
Song + Associates

Architecture • Planning • Interior Design

1545 Centrepark Drive North
West Palm Beach, Florida 33401
Telephone: 561-655-2423
Fax: 561-655-1482

AA - 0003165 IB - 0001095

KYRIAKOS G. LIATOS
600 S. ORLANDO AVE., SUITE 100
MAITLAND, FL 32751
FL REG. NO. PE68402



OCI ASSOCIATES, INC.
CONSULTING ENGINEERS
FL Permit No. BR-0000010, BR-0000011, BR-0000012, BR-0000013, BR-0000014, BR-0000015, BR-0000016, BR-0000017, BR-0000018, BR-0000019, BR-0000020, BR-0000021, BR-0000022, BR-0000023, BR-0000024, BR-0000025, BR-0000026, BR-0000027, BR-0000028, BR-0000029, BR-0000030, BR-0000031, BR-0000032, BR-0000033, BR-0000034, BR-0000035, BR-0000036, BR-0000037, BR-0000038, BR-0000039, BR-0000040, BR-0000041, BR-0000042, BR-0000043, BR-0000044, BR-0000045, BR-0000046, BR-0000047, BR-0000048, BR-0000049, BR-0000050, BR-0000051, BR-0000052, BR-0000053, BR-0000054, BR-0000055, BR-0000056, BR-0000057, BR-0000058, BR-0000059, BR-0000060, BR-0000061, BR-0000062, BR-0000063, BR-0000064, BR-0000065, BR-0000066, BR-0000067, BR-0000068, BR-0000069, BR-0000070, BR-0000071, BR-0000072, BR-0000073, BR-0000074, BR-0000075, BR-0000076, BR-0000077, BR-0000078, BR-0000079, BR-0000080, BR-0000081, BR-0000082, BR-0000083, BR-0000084, BR-0000085, BR-0000086, BR-0000087, BR-0000088, BR-0000089, BR-0000090, BR-0000091, BR-0000092, BR-0000093, BR-0000094, BR-0000095, BR-0000096, BR-0000097, BR-0000098, BR-0000099, BR-0000100, BR-0000101, BR-0000102, BR-0000103, BR-0000104, BR-0000105, BR-0000106, BR-0000107, BR-0000108, BR-0000109, BR-0000110, BR-0000111, BR-0000112, BR-0000113, BR-0000114, BR-0000115, BR-0000116, BR-0000117, BR-0000118, BR-0000119, BR-0000120, BR-0000121, BR-0000122, BR-0000123, BR-0000124, BR-0000125, BR-0000126, BR-0000127, BR-0000128, BR-0000129, BR-0000130, BR-0000131, BR-0000132, BR-0000133, BR-0000134, BR-0000135, BR-0000136, BR-0000137, BR-0000138, BR-0000139, BR-0000140, BR-0000141, BR-0000142, BR-0000143, BR-0000144, BR-0000145, BR-0000146, BR-0000147, BR-0000148, BR-0000149, BR-0000150, BR-0000151, BR-0000152, BR-0000153, BR-0000154, BR-0000155, BR-0000156, BR-0000157, BR-0000158, BR-0000159, BR-0000160, BR-0000161, BR-0000162, BR-0000163, BR-0000164, BR-0000165, BR-0000166, BR-0000167, BR-0000168, BR-0000169, BR-0000170, BR-0000171, BR-0000172, BR-0000173, BR-0000174, BR-0000175, BR-0000176, BR-0000177, BR-0000178, BR-0000179, BR-0000180, BR-0000181, BR-0000182, BR-0000183, BR-0000184, BR-0000185, BR-0000186, BR-0000187, BR-0000188, BR-0000189, BR-0000190, BR-0000191, BR-0000192, BR-0000193, BR-0000194, BR-0000195, BR-0000196, BR-0000197, BR-0000198, BR-0000199, BR-0000200, BR-0000201, BR-0000202, BR-0000203, BR-0000204, BR-0000205, BR-0000206, BR-0000207, BR-0000208, BR-0000209, BR-0000210, BR-0000211, BR-0000212, BR-0000213, BR-0000214, BR-0000215, BR-0000216, BR-0000217, BR-0000218, BR-0000219, BR-0000220, BR-0000221, BR-0000222, BR-0000223, BR-0000224, BR-0000225, BR-0000226, BR-0000227, BR-0000228, BR-0000229, BR-0000230, BR-0000231, BR-0000232, BR-0000233, BR-0000234, BR-0000235, BR-0000236, BR-0000237, BR-0000238, BR-0000239, BR-0000240, BR-0000241, BR-0000242, BR-0000243, BR-0000244, BR-0000245, BR-0000246, BR-0000247, BR-0000248, BR-0000249, BR-0000250, BR-0000251, BR-0000252, BR-0000253, BR-0000254, BR-0000255, BR-0000256, BR-0000257, BR-0000258, BR-0000259, BR-0000260, BR-0000261, BR-0000262, BR-0000263, BR-0000264, BR-0000265, BR-0000266, BR-0000267, BR-0000268, BR-0000269, BR-0000270, BR-0000271, BR-0000272, BR-0000273, BR-0000274, BR-0000275, BR-0000276, BR-0000277, BR-0000278, BR-0000279, BR-0000280, BR-0000281, BR-0000282, BR-0000283, BR-0000284, BR-0000285, BR-0000286, BR-0000287, BR-0000288, BR-0000289, BR-0000290, BR-0000291, BR-0000292, BR-0000293, BR-0000294, BR-0000295, BR-0000296, BR-0000297, BR-0000298, BR-0000299, BR-0000300, BR-0000301, BR-0000302, BR-0000303, BR-0000304, BR-0000305, BR-0000306, BR-0000307, BR-0000308, BR-0000309, BR-0000310, BR-0000311, BR-0000312, BR-0000313, BR-0000314, BR-0000315, BR-0000316, BR-0000317, BR-0000318, BR-0000319, BR-0000320, BR-0000321, BR-0000322, BR-0000323, BR-0000324, BR-0000325, BR-0000326, BR-0000327, BR-0000328, BR-0000329, BR-0000330, BR-0000331, BR-0000332, BR-0000333, BR-0000334, BR-0000335, BR-0000336, BR-0000337, BR-0000338, BR-0000339, BR-0000340, BR-0000341, BR-0000342, BR-0000343, BR-0000344, BR-0000345, BR-0000346, BR-0000347, BR-0000348, BR-0000349, BR-0000350, BR-0000351, BR-0000352, BR-0000353, BR-0000354, BR-0000355, BR-0000356, BR-0000357, BR-0000358, BR-0000359, BR-0000360, BR-0000361, BR-0000362, BR-0000363, BR-0000364, BR-0000365, BR-0000366, BR-0000367, BR-0000368, BR-0000369, BR-0000370, BR-0000371, BR-0000372, BR-0000373, BR-0000374, BR-0000375, BR-0000376, BR-0000377, BR-0000378, BR-0000379, BR-0000380, BR-0000381, BR-0000382, BR-0000383, BR-0000384, BR-0000385, BR-0000386, BR-0000387, BR-0000388, BR-0000389, BR-0000390, BR-0000391, BR-0000392, BR-0000393, BR-0000394, BR-0000395, BR-0000396, BR-0000397, BR-0000398, BR-0000399, BR-0000400, BR-0000401, BR-0000402, BR-0000403, BR-0000404, BR-0000405, BR-0000406, BR-0000407, BR-0000408, BR-0000409, BR-0000410, BR-0000411, BR-0000412, BR-0000413, BR-0000414, BR-0000415, BR-0000416, BR-0000417, BR-0000418, BR-0000419, BR-0000420, BR-0000421, BR-0000422, BR-0000423, BR-0000424, BR-0000425, BR-0000426, BR-0000427, BR-0000428, BR-0000429, BR-0000430, BR-0000431, BR-0000432, BR-0000433, BR-0000434, BR-0000435, BR-0000436, BR-0000437, BR-0000438, BR-0000439, BR-0000440, BR-0000441, BR-0000442, BR-0000443, BR-0000444, BR-0000445, BR-0000446, BR-0000447, BR-0000448, BR-0000449, BR-0000450, BR-0000451, BR-0000452, BR-0000453, BR-0000454, BR-0000455, BR-0000456, BR-0000457, BR-0000458, BR-0000459, BR-0000460, BR-0000461, BR-0000462, BR-0000463, BR-0000464, BR-0000465, BR-0000466, BR-0000467, BR-0000468, BR-0000469, BR-0000470, BR-0000471, BR-0000472, BR-0000473, BR-0000474, BR-0000475, BR-0000476, BR-0000477, BR-0000478, BR-0000479, BR-0000480, BR-0000481, BR-0000482, BR-0000483, BR-0000484, BR-0000485, BR-0000486, BR-0000487, BR-0000488, BR-0000489, BR-0000490, BR-0000491, BR-0000492, BR-0000493, BR-0000494, BR-0000495, BR-0000496, BR-0000497, BR-0000498, BR-0000499, BR-0000500, BR-0000501, BR-0000502, BR-0000503, BR-0000504, BR-0000505, BR-0000506, BR-0000507, BR-0000508, BR-0000509, BR-0000510, BR-0000511, BR-0000512, BR-0000513, BR-0000514, BR-0000515, BR-0000516, BR-0000517, BR-0000518, BR-0000519, BR-0000520, BR-0000521, BR-0000522, BR-0000523, BR-0000524, BR-0000525, BR-0000526, BR-0000527, BR-0000528, BR-0000529, BR-0000530, BR-0000531, BR-0000532, BR-0000533, BR-0000534, BR-0000535, BR-0000536, BR-0000537, BR-0000538, BR-0000539, BR-0000540, BR-0000541, BR-0000542, BR-0000543, BR-0000544, BR-0000545, BR-0000546, BR-0000547, BR-0000548, BR-0000549, BR-0000550, BR-0000551, BR-0000552, BR-0000553, BR-0000554, BR-0000555, BR-0000556, BR-0000557, BR-0000558, BR-0000559, BR-0000560, BR-0000561, BR-0000562, BR-0000563, BR-0000564, BR-0000565, BR-0000566, BR-0000567, BR-0000568, BR-0000569, BR-0000570, BR-0000571, BR-0000572, BR-0000573, BR-0000574, BR-0000575, BR-0000576, BR-0000577, BR-0000578, BR-0000579, BR-0000580, BR-0000581, BR-0000582, BR-0000583, BR-0000584, BR-0000585, BR-0000586, BR-0000587, BR-0000588, BR-0000589, BR-0000590, BR-0000591, BR-0000592, BR-0000593, BR-0000594, BR-0000595, BR-0000596, BR-0000597, BR-0000598, BR-0000599, BR-0000600, BR-0000601, BR-0000602, BR-0000603, BR-0000604, BR-0000605, BR-0000606, BR-0000607, BR-0000608, BR-0000609, BR-0000610, BR-0000611, BR-0000612, BR-0000613, BR-0000614, BR-0000615, BR-0000616, BR-0000617, BR-0000618, BR-0000619, BR-0000620, BR-0000621, BR-0000622, BR-0000623, BR-0000624, BR-0000625, BR-0000626, BR-0000627, BR-0000628, BR-0000629, BR-0000630, BR-0000631, BR-0000632, BR-0000633, BR-0000634, BR-0000635, BR-0000636, BR-0000637, BR-0000638, BR-0000639, BR-0000640, BR-0000641, BR-0000642, BR-0000643, BR-0000644, BR-0000645, BR-0000646, BR-0000647, BR-0000648, BR-0000649, BR-0000650, BR-0000651, BR-0000652, BR-0000653, BR-0000654, BR-0000655, BR-0000656, BR-0000657, BR-0000658, BR-0000659, BR-0000660, BR-0000661, BR-0000662, BR-0000663, BR-0000664, BR-0000665, BR-0000666, BR-0000667, BR-0000668, BR-0000669, BR-0000670, BR-0000671, BR-0000672, BR-0000673, BR-0000674, BR-0000675, BR-0000676, BR-0000677, BR-0000678, BR-0000679, BR-0000680, BR-0000681, BR-0000682, BR-0000683, BR-0000684, BR-0000685, BR-0000686, BR-0000687, BR-0000688, BR-0000689, BR-0000690, BR-0000691, BR-0000692, BR-0000693, BR-0000694, BR-0000695, BR-0000696, BR-0000697, BR-0000698, BR-0000699, BR-0000700, BR-0000701, BR-0000702, BR-0000703, BR-0000704, BR-0000705, BR-0000706, BR-0000707, BR-0000708, BR-0000709, BR-0000710, BR-0000711, BR-0000712, BR-0000713, BR-0000714, BR-0000715, BR-0000716, BR-0000717, BR-0000718, BR-0000719, BR-0000720, BR-0000721, BR-0000722, BR-0000723, BR-0000724, BR-0000725, BR-0000726, BR-0000727, BR-0000728, BR-0000729, BR-0000730, BR-0000731, BR-0000732, BR-0000733, BR-0000734, BR-0000735, BR-0000736, BR-0000737, BR-0000738, BR-0000739, BR-0000740, BR-0000741, BR-0000742, BR-0000743, BR-0000744, BR-0000745, BR-0000746, BR-0000747, BR-0000748, BR-0000749, BR-0000750, BR-0000751, BR-0000752, BR-0000753, BR-0000754, BR-0000755, BR-0000756, BR-0000757, BR-0000758, BR-0000759, BR-0000760, BR-0000761, BR-0000762, BR-0000763, BR-0000764, BR-0000765, BR-0000766, BR-0000767, BR-0000768, BR-0000769, BR-0000770, BR-0000771, BR-0000772, BR-0000773, BR-0000774, BR-0000775, BR-0000776, BR-0000777, BR-0000778, BR-0000779, BR-0000780, BR-0000781, BR-0000782, BR-0000783, BR-0000784, BR-0000785, BR-0000786, BR-0000787, BR-0000788, BR-0000789, BR-0000790, BR-0000791, BR-0000792, BR-0000793, BR-0000794, BR-0000795, BR-0000796, BR-0000797, BR-0000798, BR-0000799, BR-0000800, BR-0000801, BR-0000802, BR-0000803, BR-0000804, BR-0000805, BR-0000806, BR-0000807, BR-0000808, BR-0000809, BR-0000810, BR-0000811, BR-0000812, BR-0000813, BR-0000814, BR-0000815, BR-0000816, BR-0000817, BR-0000818, BR-0000819, BR-0000820, BR-0000821, BR-0000822, BR-0000823, BR-0000824, BR-0000825, BR-0000826, BR-0000827, BR-0000828, BR-0000829, BR-0000830, BR-0000831, BR-0000832, BR-0000833, BR-0000834, BR-0000835, BR-0000836, BR-0000837, BR-0000838, BR-0000839, BR-0000840, BR-0000841, BR-0000842, BR-0000843, BR-0000844, BR-0000845, BR-0000846, BR-0000847, BR-0000848, BR-0000849, BR-0000850, BR-0000851, BR-0000852, BR-0000853, BR-0000854, BR-0000855, BR-0000856, BR-0000857, BR-0000858, BR-0000859, BR-0000860, BR-0000861, BR-0000862, BR-0000863, BR-0000864, BR-0000865, BR-0000866, BR-0000867, BR-0000868, BR-0000869, BR-0000870, BR-0000871, BR-0000872, BR-0000873, BR-0000874, BR-0000875, BR-0000876, BR-0000877, BR-0000878, BR-0000879, BR-0000880, BR-0000881, BR-0000882, BR-0000883, BR-0000884, BR-0000885, BR-0000886, BR-0000887, BR-0000888, BR-0000889, BR-0000890, BR-0000891, BR-0000892, BR-0000893, BR-0000894, BR-0000895, BR-0000896, BR-0000897, BR-0000898, BR-0000899, BR-0000900, BR-0000901, BR-0000902, BR-0000903, BR-0000904, BR-0000905, BR-0000906, BR-0000907, BR-0000908, BR-0000909, BR-0000910, BR-0000911, BR-0000912, BR-0000913, BR-0000914, BR-0000915, BR-0000916, BR-0000917, BR-0000918, BR-0000919, BR-0000920, BR-0000921, BR-0000922, BR-0000923, BR-0000924, BR-0000925, BR-0000926, BR-0000927, BR-0000928, BR-0000929, BR-0000930, BR-0000931, BR-0000932, BR-0000933, BR-0000934, BR-0000935, BR-0000936, BR-0000937, BR-0000938, BR-0000939, BR-0000940, BR-0000941, BR-0000942, BR-0000943, BR-0000944, BR-0000945, BR-0000946, BR-0000947, BR-0000948, BR-0000949, BR-0000950, BR-0000951, BR-0000952, BR-0000953, BR-0000954, BR-0000955, BR-0000956, BR-0000957, BR-0000958, BR-0000959, BR-0000960, BR-0000961, BR-0000962, BR-0000963, BR-0000964, BR-0000965, BR-0000966, BR-0000967, BR-0000968, BR-0000969, BR-0000970, BR-0000971, BR-0000972, BR-0000973, BR-0000974, BR-0000975, BR-0000976, BR-0000977, BR-0000978, BR-0000979, BR-0000980, BR-0000981, BR-0000982, BR-0000983, BR-0000984, BR-0000985, BR-0000986, BR-0000987, BR-0000988, BR-0000989, BR-0000990, BR-0000991, BR-0000992, BR-0000993, BR-0000994, BR-0000995, BR-0000996, BR-0000997, BR-0000998, BR-0000999, BR-0001000, BR-0001001, BR-0001002, BR-0001003, BR-0001004, BR-0001005, BR-0001006, BR-0001007, BR-0001008, BR-0001009, BR-0001010, BR-0001011, BR-0001012, BR-0001013, BR-0001014, BR-0001015, BR-0001016, BR-00010

MASTER ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE:
(EM) DENOTES FIXTURE WITH BATTERY BALLAST

- FLUORESCENT FIXTURE - CEILING MOUNTED
- FLUORESCENT FIXTURE - CEILING MOUNTED, LIFE SAFETY BRANCH
- HID, FLUORESCENT OR INCANDESCENT FIXTURE - RECESSED

- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED

SWITCHES

- LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
 - * (2) DOUBLE POLE
 - (3) WAY
 - (4) DIMMER SWITCH (1500W UNLESS NOTED)
 - (1) SINGLE PHASE MOTOR STARTING SWITCH
 - (OS) OCCUPANCY SENSOR
 - (P) MULTI-BUTTON LIGHTING CONTROL PANEL
- OCCUPANCY SENSOR, LOW VOLTAGE - CEILING MOUNTED, OC SENSOR SHALL
- DAYLIGHT SENSOR, LOW VOLTAGE - CEILING MOUNTED

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - CONDUCTORS ARE #12 AWG CU UNLESS OTHERWISE INDICATED. (SEE SPECIFICATIONS FOR DERATING OF CONDUCTORS BASED ON CIRCUIT LENGTH AND CONDUCTORS IN A CONDUIT)
- CONDUIT EXPOSED ON WALLS OR CEILINGS
- EXISTING CONDUIT
- CONDUIT TURNED UP OR DOWN IN WALL

RECEPTACLES

- DUPLEX RECEPTACLE
 - * (C) DUPLEX GFCI RECEPTACLE
 - (O) DUPLEX ISOLATED GROUND RECEPTACLE (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER (WPG) DUPLEX GFCI RECEPTACLE, WEATHERPROOF COVER
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.
- QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- SMOKE DETECTOR - PHOTO
- SIGNALING HORN
 - * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)

INTERCOM SYSTEM

- INTERCOM CEILING SPEAKER
- INTERCOM SYSTEM RACEWAY
- INTERCOM EQUIPMENT PANEL

SECURITY SYSTEM

- SECURITY VIDEO CAMERA
 - * (C) CEILING MOUNTED
 - (W) WALL MOUNTED
 - (PT) PAN AND TILT TYPE
 - (WP) WEATHERPROOF

TECHNOLOGY

- TECHNOLOGY OUTLET, FLUSH WALL MTD. 18" OC AFF UNLESS OTHERWISE NOTED
- NOTE: ALL FACEPLATES SHALL HAVE 6 SPACES FOR TERMINATION MODULES.
- (#) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.

ABBREVIATIONS:

- A AMPERES
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AL ALUMINUM
- ANNUN ANNUNCIATOR
- ARCH ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISHED GRADE
- BLDG BUILDING
- C CONDUIT
- CAT CATALOG
- CAT CATALOG
- CKT CIRCUIT
- CU COPPER
- C/B CIRCUIT BREAKER
- C/T CURRENT TRANSFORMERS
- Δ DELTA
- DWG DRAWING
- FT FEET
- G GROUND
- GEN GENERATOR
- GFI GROUND FAULT INTERRUPT
- IG ISOLATED GROUND
- KVA KILOVOLT - AMPERES
- KW KILOWATTS
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCM THOUSAND CIRCULAR MILS
- MISC MISCELLANEOUS
- MLO MAIN LUGS ONLY
- NEC NATIONAL ELECTRICAL CODE
- NC NORMALLY CLOSED
- NL NIGHT LIGHT CIRCUIT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- NIC NOT IN CONTRACT
- # PHASE
- POS POINT OF SALE
- PVC POLYVINYL CHLORIDE
- P/T POTENTIAL TRANSFORMER
- R RECESSED
- SCR SHORT CIRCUIT RATING
- SURF SURFACE
- TEL TELEPHONE
- UG UNDERGROUND
- UNIV UNIVERSAL
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- W WATTS
- WP WEATHERPROOF
- WPG WEATHERPROOF WITH GROUND FAULT INTERRUPT
- XFMR TRANSFORMER
- Y WYE

GENERAL NOTES:

- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
- CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE 2008 NATIONAL ELECTRICAL CODE, THE FLORIDA ELECTRICAL CODE AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
- CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
- WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
- IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
- 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 AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN HIS BID PROPOSAL.
- WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC. PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
- WHERE CONDUIT IS REQUIRED WITHIN THE BUILDING, IT SHALL BE:
 - WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL CONDUIT.
 - WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
- FITTING SHALL BE APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
- ALL CONDUCTORS SHALL BE COPPER (#12 MIN.), THHN/THWN INSULATION. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
- PROVIDE ALL SUPPORTS FOR ELECTRICAL MATERIAL AND EQUIPMENT.
- ALL PLATE FINISHES SHALL BE AS DESIGNATED BY OCPs.
- PROVIDE COMMERCIAL GRADE 20 AMP, 2 POLE, 3 WIRE, GROUNDING TYPE DEVICES WITH BACK AND SIDE WIRING CAPABILITY, SUITABLE FOR SPLIT CIRCUIT OPERATION.
- GROUND FAULT INTERRUPTER: PROVIDE "SPECIFICATION GRADE" DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS (GFI), FEED-THRU TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, GROUNDING TYPE UL RATED CLASS A, 20 AMPERES RATING, 120 VOLTS, WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMPERES GROUND FAULT TRIP LEVEL; AND EQUIP WITH LOCAL TEST/RESET BUTTONS.
- SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR 4JC UNITS AS PER ULL LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES.
- A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122, SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
- ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDING.
- THE CONTRACTOR SHALL INSTALL HIS WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING HIS WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS, OR RAISING OR LOWERING HIS WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
- EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
- DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
- ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- PROVIDE 120V RECEPTACLE CIRCUIT CONTROLS PER 2017 FBC ENERGY SECTION 405.6.1 & ASHRAE 90.1-2013 8.4.2 IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. RECEPTACLES DESIGNATED "CR" INDICATES A CONTROLLED RECEPTACLE. THESE RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
- PROVIDE 120V RECEPTACLE CIRCUIT CONTROLS PER 2017 FBC ENERGY SECTION 405.6.1 & ASHRAE 90.1-2013 8.4.2 IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. RECEPTACLES DESIGNATED "CR" INDICATES A CONTROLLED RECEPTACLE. THESE RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.

Applicable Codes and Standards :

FLORIDA BUILDING CODE, 2017 EDITION
 ADA
 FLORIDA BUILDING CODE, MECHANICAL 2017 EDITION
 FLORIDA BUILDING CODE, PLUMBING 2017 EDITION
 FLORIDA FIRE PREVENTION CODE, 5TH EDITION
 FLORIDA BUILDING CODE, 2017 EDITION CHAPTER 13 - FLORIDA ENERGY EFFICIENCY FOR BUILDING CONSTRUCTION
 NATIONAL FIRE PROTECTION ASSOCIATES (NFPA) STANDARDS
 NFPA 70, 2014 EDITION
 NFPA 72, 2014 EDITION

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL	LAMPS	VOLTAGE	MOUNTING	
A	2X2 LED LAY-IN FLAT PANEL FIXTURE, 0-10 V DIMMING	32	32	LED 120/277	RECESSED	FIDELUX # FFP22-32-40K-UNV-D
B	1X4 LED LAY-IN FLAT PANEL FIXTURE, 0-10 V DIMMING	32	32	LED 120/277	RECESSED	FIDELUX # FFP14-32-40K-UNV-D
X1	EXIT LIGHT, SINGLE FACE, RED LETTERS	-	12	LED 120/277	SURFACE	COMPASS# CER

LIGHTING FIXTURE SCHEDULE NOTES:

- CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGHTING FIXTURE TRIM TYPES WITH THE TYPE OF CEILING WHERE LIGHTING FIXTURES ARE TO BE INSTALLED MODIFY FIXTURE CATALOG NUMBER FROM THAT SHOWN ABOVE TO THAT REQUIRED TO COORDINATE WITH CEILING TYPE/CONSTRUCTION.
- ALL BALLASTED FIXTURES TO HAVE IN-LINE FUSE AND FUSE HOLDER.



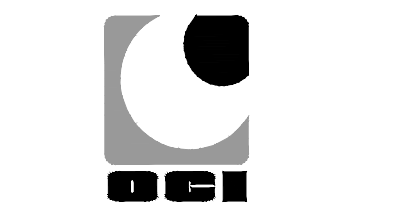
Song + Associates

Architecture • Planning • Interior Design

1545 Centrepark Drive North
 West Palm Beach, Florida 33401
 Telephone: 561-655-2423
 Fax: 561-655-1482

AA - 0003165 IB - 0001095

KRYSTON G. LIATOS
 600 S. ORLANDO AVE., SUITE 100
 WINTERLAND, FL 32790
 FL. REG. NO. # P668402



OCI ASSOCIATES, INC.
 CONSULTING ENGINEERS
 11101 W. US HWY 19, SUITE 1000, WEST PALM BEACH, FL 33411
 600 South Orlando Ave.
 Winterland, FL 32790
 Phone: (407) 330-1111 Fax: (407) 330-7754
 www.ociassociates.com
 CERTIFICATE OF AUTHORIZATION #081

COPYRIGHT © 2017 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. THESE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF SONG & ASSOCIATES, INC. WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING WITH THE APPROPRIATE REPRESENTATIVE OF SONG & ASSOCIATES, INC. REPRODUCTION OF DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF SONG & ASSOCIATES, INC. IS PROHIBITED.

THE SCHOOL DISTRICT OF INDIAN RIVER COUNTY
 OFFICE OF FACILITIES & CONSTRUCTION



SINGLE POINT OF ENTRY RENOVATION

PELICAN ISLAND
 ELEMENTARY SCHOOL
 1355 SCHUMANN DR.
 SEBASTIAN, FL 32958

Revisions :

Date : 09/19/2018
 S+A Project No : 18033
 Owner Project No :
 Drawn By : JB
 Checked By : KGL

Phase :
 CONSTRUCTION DOCUMENTS

Sheet Title :

GENERAL NOTES - ELECTRICAL

Sheet # :
E-100

PRINT DATE: 09/27/2018 4:15 PM SAVE DATE: 07/19/2018 2:11 PM FILE LOCATION: J:\8 JOBS\18084 - RSD PELICAN ISLAND ES SINGLE PT ENTRY\DWGS\18084E-100.DWG

