

Project Description



The building is a two-story, eclectic traditional architecture with frontage on Church Street, east of Garland Avenue. The proposed renovation to the Church Street façade will occur on the first level only. The wrought iron balcony, cross street bridge, and brick façade on the second floor will not be affected. The geometry of the existing street façade can be described as a symmetrical layout with the center axis defined by a street spanning ornamental cross bridge, and marked on the first level with a single leaf door patio below the bridge. On each side of the bridge are two structural bays. The first level are articulated with large window openings with ornamental details including large single pane arch windows framed by pairs of ionic wood columns and topped with stained glass transom windows.

The purpose of the façade renovation is to re-define a new street entrance for Ceviche Tapas restaurant, and to introduce large operable windows that will engage the atmosphere of the street with the restaurant. Effort will be made to preserve the brick herringbone header above the existing fenestration openings, the ornamental downspouts and stained glass transom windows. The large plate glass windows and wood ionic columns below the transom line will be removed for the proposed windows and doors. Structural shoring will be implemented and strict care will be taken in order to stabilize and protect the existing ornamental elements to remain, including the stained glass transom.

Phase I (easternmost bay) – New Restaurant Entrance

The proposed entrance bay will be located in the easternmost structural bay opening. It will have a new structural frame to support the existing stained glass transom while creating a structural header for a new pair of entrance doors and new fixed windows. The new entrance will be defined by new outswinging French wood and aluminum cladded doors with large full vision lites. Fixed sidelight windows will flank the new door. The new pair of doors will be centered under the existing arch top. New vertical mullions will align with the mullions above.

Phase II (three remaining bays) – Operable Window Partitions

Like the Phase I opening, each bay will be structurally supported with a new frame and header. The operable window panels will fold out from each end meeting in the middle under the existing arch. Each hinge fold will align w/ the vertical mullions above. These windows will be large vision panels to simulate much of the openness in the existing windows, while providing a narrow profile frame for each pane.

The end result will enhance the street and restaurant atmosphere with a cohesive integration of new operable doors and windows to the existing architecture without compromising much of the character that defines this historic building.







Ceviche Existing Condition













Church Street Examples

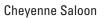




Harry Buffalo



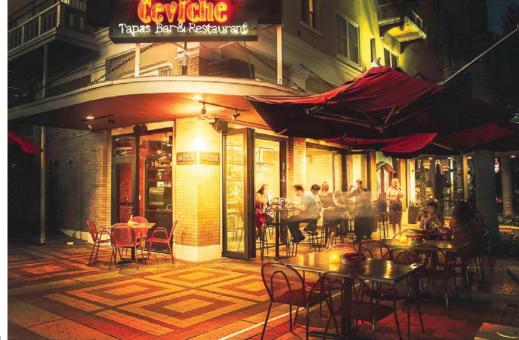
Church St. Tavern







Patio Partition Examples



Ceviche St. Petersburg



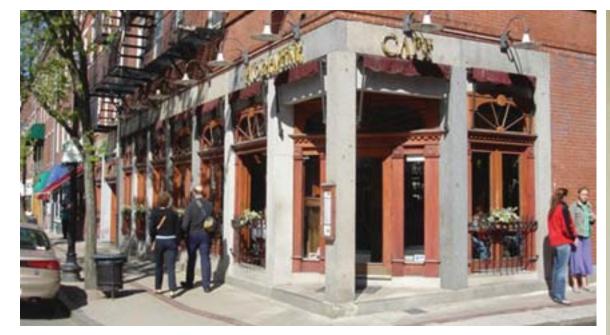
Antoine's - New Orleans



Prato - Winter Park















Folding Partition Examples

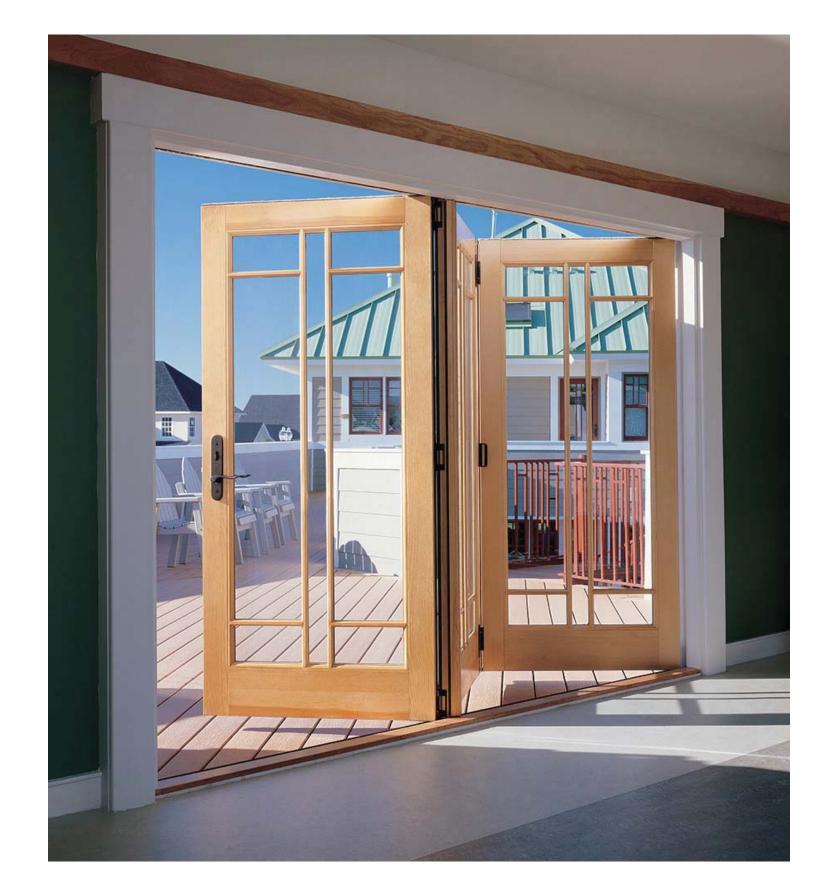








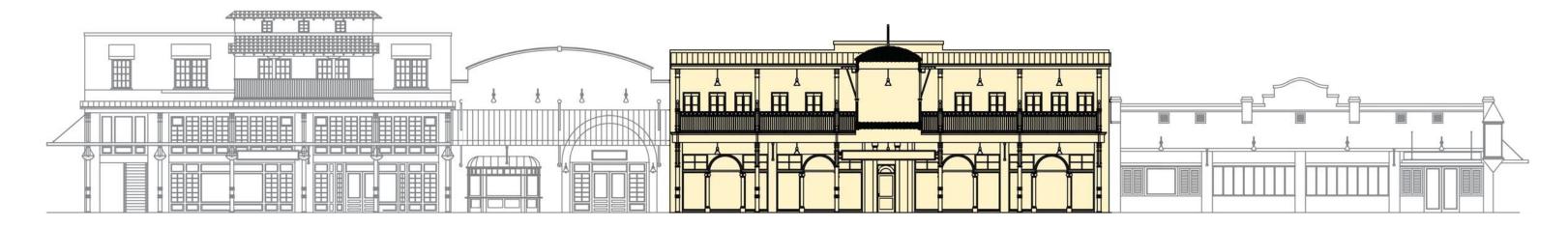
Marvin Windows and Doors













Existing Building Elevations







New Wood Cladded Steel Beam

New Wood Cladded Steel Columns

New Arch Insulated Glass

Proposed - Partitions Open



Existing Stained Glass Transom

























CEVICHE RENOVATION - PHASE 2

125 W. CHURCH STREET ORLANDO, FL 32801



INDEX OF DRAWINGS

Architectural

SHEET SPECIFICATIONS

INFILL WALL DETAILS ENLARGED EXTERIOR ELEVATIONS

FLOOR PLANS AND PLAN DETAILS

ENTRY DOOR/BIFOLD SECTIONS AND DETAILS

Structural

Electrical

ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS, AND SHEET INDEX

CEILING PLAN - LEVEL 1 - LIGHTING PHASE 2

FLOOR PLAN - LEVEL 1 - POWER PHASE 2

ELECTRICAL SCHEDULES





	<u>TENANT</u>	OWNERS REPRESENTATIVE	DEVELOPMENT MANAGER
	CALEDON CONCEPTS	TREMONT REALTY	JLL
CITY OF ORLANDO HISTORIC PRESERVATION CASE NUMBER: HPB 2016-00093	2504 AZEELE STREET, TAMPA, FL 33609	30 FEDERAL STREET, BOSTON, MA 02110	250 S. ORANGE AVENUE, 7TH FLOOR ORLANDO, FL 32801
	CONTACT: LEE KARLINS	CONTACT: STEVEN SKELLEY	CONTACT: MAUREEN LACHMAI

CONTACT: CARL JENNE



CONTACT: MAURO CAMPOS

ELECTRICAL ENGINEER	MECHANICAL AND PLUMBING ENGINEER	STRUCTURAL ENGINEER
TLC	TLC	TLC
55 S. ORANGE AVENUE, SUITE 1600 ORLANDO, FL 32801	255 S. ORANGE AVENUE, SUITE 1600 ORLANDO, FL 32801	255 S. ORANGE AVEN SUITE 1600 ORLANDO, FL 3280

CONTACT: ERIC CEPULL

08/02/2016

LITTLE

ARCHITECT

201 S. ORANGE AVENUE, SUITE 940 ORLANDO, FL 32801 407-218-8282 CONTACT: ARANYA MOM

861.5242.00

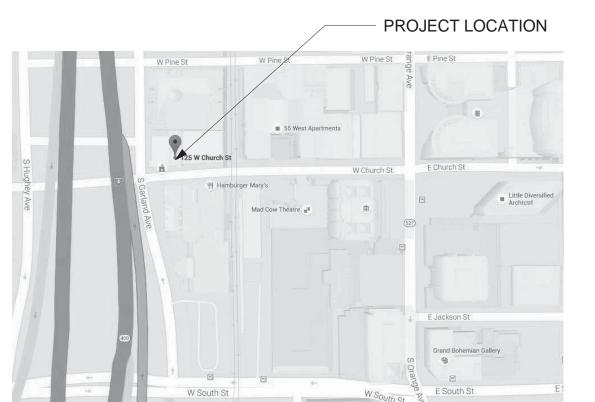
PROJECT NARRATIVE

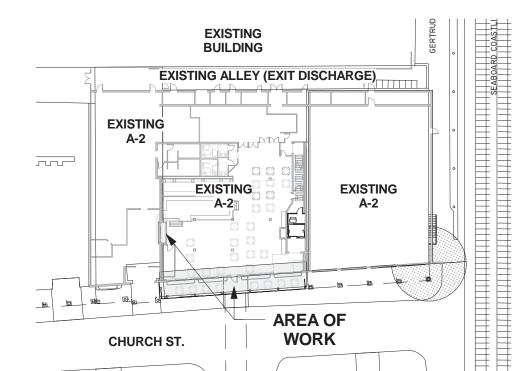
PHASE 2 - THE CEVICHE RESTAURANT ON CHURCH STREET IN DOWNTOWN ORLANDO WILL UNDERGO AN EXTERIOR FACADE RENOVATION COMPRISING OF A NEW ENTRY AND REDUCING THE SIZE OF THE EXISTING TENANT SPACE, CLOSING THE EXISTING ENTRANCE IN THE PROCESS. ASSOCIATED WORK INCLUDES, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL.

PHASE I WAS SUBMITTED UNDER SEPARATE COVER. CASE NO: BLD 2016-05512

PROJECT LOCATION

KEY PLAN





ONLY

R THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 18, PAGE 28 A POINT ON THE WEST RIGHT OF WAY LINE OF CSX HREE COURSES AND DISTANCES ALONG SAID WEST RIGHT OF WAY RTH 89'10'23" EAST, A DISTANCE OF 4.75 FEET; THENCE RUN RLY RIGHT OF WAY LINE OF CHURCH STREET; THENCE RUN SOUTH 0.81 FEET TO A POINT ON THE EAST SIDE OF A BRICK WALL; SAID EAST SIDE OF A BRICK WALL, A DISTANCE OF 150.23 FEET THENCE RUN NORTH 89'50'49" EAST ALONG SAID SOUTH LINE, A

ABBREVIATIONS

MOLITION	HDW	HARDWARE	OFF	OFFICE	TEMP	TEMPERED
	HWD	HARDWOOD	OC	ON CENTER(S)	TME	TO MATCH EXISTING
	HDR	HEADER	OPNG	OPENING	TYP	TYPICAL
	HVAC	HEATING, VENTILATION AND	O.H.	OPPOSITE HAND	THK	THICKNESS
		AIR CONDITIONING			TR	TRANSOM
	HGT	HEIGHT	PNT	PAINT(ED)		
	HC	HOLLOW CORE	PR	PAIR	U.O.N.	UNLESS OTHERWISE NOTED
	HORIZ	HORIZONTAL	PNL	PANEL	U.N.O.	UNLESS NOTED OTHERWISE
	HR	HOUR	PTN	PARTITION	\	VENEED
	INIOL	INICI LIDE(D) (INIC)	PED	PEDESTAL PEDESTAL	VEN	VENEER
	INCL I.D.	INCLUDE(D), (ING) INSIDE DIAMETER	PERF PLAS	PERFORATE(D) PLASTER OR PLASTIC	VERT VIN	VERTICAL VINYL
	INSUL	INSIDE DIAMETER INSULATE(D), (ION), (ING)	P.LAM	PLASTIC LAMINATE	VIIN	VINYL BASE
	INT	INTERIOR	PLWD	PLYWOOD	VCT	VINYL COMPOSITION TILE
	IBC	INTERNATIONAL BUILDING CODE	PFB	PREFABRICATE(D)	VT	VINYL TILE
	150	INTERNATIONAL BOILDING GODE	PFN	PREFINISHED	VWC	VINYL WALL COVERING
	JC	JANITOR'S CLOSET	PRF	PERFORMED	V.I.F.	VERIFY IN FIELD
	JT	JOINT		•		
	•		QT	QUARRY TILE	WTW	WALL TO WALL
	KPL	KICKPLATE			WC	WATER CLOSET
	KIT	KITCHEN	REC	RECEPTACLE	WGT	WEIGHT
TER COOLER			REF	REFERENCE	W	WIDTH
	L	LENGTH	REFR	REFRIGERATOR	WIN	WINDOW
	LBL	LABEL	REM	REMOVE	W/	WITH
OVERING	LAM	LAMINATE(D)	REQ'D	REQUIRED	W/O	WITHOUT
	LT	LIGHT	RESIL	RESILENT	WD	WOOD
OUED	LCKR	LOCKER	RM	ROOM	WB	WOOD BASE
SHER	MED	MAANUUEA OTUDE (D)	RB	RUBBER BASE		
NT TREATED	MFR	MANUFACTURE(R)	RBT	RUBBER TILE		
INITREATED	MATL MAX	MATERIAL(S)	CECT	CECTION		
-	MECH	MAXIMUM MECHANICAL	SECT SV	SECTION SHEET VINYL		
-	MTL	METAL	S&R	SHELF AND ROD		
OTHERS	MWK	MILLWORK	SHR	SHOWER		
G)	MIN	MINIMUM	SIM	SIMILAR		
- /	MISC	MISCELLANEOUS	SPEC	SPECIFICATION(S)		
	MTD	MOUNTED	SQ FT	SQUARE FEET		
	MULL	MULLION	SS	STAINLESS STEEL		
			SBC	STANDARD BUILDING CODE		
TRACTOR	N	NORTH	STD	STANDARD		
IG	NO OR #	NUMBER	STOR	STORAGE		
	NR	NOISE REDUCTION	SUSP	SUSPENDED		
DOADD	NRC	NOISE REDUCTION COEFFICIENT	SUSP CLG	SUSPENDED CEILING		
. BOARD	NIC	NOT IN CONTRACT	SCW	SOLID CORE WOOD		
	NTS	NOT TO SCALE	SAFB	SOUND ATTENUATION FIRE BATTS		
			SYS	SYSTEM		

SYMBOLS

PROJECT INFORMATION

BUILDING INFORMATION SUMMARY

Proposed Use: Owner or Authorized Agent: Owned By: Code Enforcement Jurisdiction: LEAD DESIGN PROFESSIONAL: ARANYA MOM, AIA, LEED ® AP BD+C SAME DESIGNER FIRM LICENSE # PHONE # E-MAIL **BUILDING** Architectural Electrical Fire Alarm Plumbing FL 45800 X **DATA FROM** FL 64750 (407) 487-1137 eric.cepull@tlc-eng.com PHASE 1, Mechanical ERIC CEPULL FL 64750 (407) 487-1137 eric.cepull@tlc-eng.com Sprinkler-Standpipe N/A FL 54036 (407) 487-1306 carl.jenne@tlc-eng.com Structural CARL JENNE **INCLUDED** Landscape YEAR EDITION OF CODE: 2014 5th Edition Florida Existing Building Code

APPLICABLE CODES

Name of Project: CEVICHE RENOVATION - PHASE 2

Address: 125 W CHURCH STREET, ORLANDO, FLORIDA 3280

2014 5th EDITION FLORIDA BUILDING CODE 2014 5th EDITION FLORIDA MECHANICAL CODE 2014 5th EDITION FLORIDA PLUMBING CODE 2014 5th EDITION FLORIDA FUEL GAS CODE 2012 FLORIDA FIRE PREVENTION CODE 2014 5th EDITION FLORIDA ACCESSIBILITY CODE 2014 5th EDITION FLORIDA ENERGY CONSEVATION CODE

THE 2014 FLORIDA BUILDING CODE FOR GROUP A-2 ASSEMBLY. THE ALLOWABLE AREA AND

BUILDING HEIGHT ARE CALCULATED WITH A MODIFIED INCREASE WITH THE PRESENCE OF AN

2014 5th EDITION NFPA 1 AND NFPA 101

2011 NATIONAL ELECTRIC CODE

☐ New Construction ■ Renovation (Existing Bldg.) ☐ Upfit ☐ Alteration ☐ Rehab

EXISTING BUILDING

BUILDING DATA Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B* ☐ III-A ■ III-B □ V-A
□ V-B Mixed Construction: ☐ No ☐ Yes Types: -* THE EXISTING BUILDING APPEARS TO MEET THE MINIMUM TYPE OF CONSTRUCTION OF III-B PER

EXISTING AUTOMATIC FIRE PROTECTION SYSTEM (SPRINKLERS).

Sprinklers: ☐ No ■ Yes ■ NFPA 13-02 ☐ NFPA 13R-02 ☐ NFPA 13D-02 Standpipes: ☐ No ☐ Yes NFPA 14-00 Type: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry Fire District: ■ No □ Yes **Building Height:** 29' Feet 3 Number of Stories ☐ Unlimited per Mezzanine: ■ No □ Yes **High Rise:** ■ No □ Yes Central Reference Sheet # (if provided) Compliant High Rise: ■ No ☐ Yes

Gross Building Area (sq. ft.): LEVEL EXISTING **COVERED AREA** 1,930 SF

ALLOWABLE AREA

☐ Incidental Use Separation (508.2)

TOTAL 18,406 SF

■ A-2 □ A-3 Primary Occupancy: Assembly A-1 □ A-4 ☐ Business ☐ Education Factory ☐ F-1 Moderate ☐ F-2 Low Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM ☐ I-3 ☐ I-4 **3** ☐ Mercantile ☐ Residential ☐ R-1 ☐ R-2 ☐ R-3 □ R-4 ☐ S-2 ☐ High-piled Parking Garage Open ☐ Enclosed ☐ Repair Utility and Miscellaneous

18,406 SF

Secondary Occupancy: 402 403 404 405 406 407 408 409 410 411 412 □ 413 □ 414 □ 415 □ 416 □ 417 □ 418 □ 419 □ 420 □ 421 □ 422 □ 423 **Special Provisions:** □ 509.2 □ 509.3 □ 509.4 □ 509.5 □ 509.6 □ 509.7 □ 509.8 Mixed Occupancy: No Separation: Hr. Exception:

This separation is not exempt as a Non-Separated Use (see exceptions) ☐ Non-Separated Use (508.3.2) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.3.3) - see below for area calculations For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503 ⁵ AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴	(G) TOTAL ALLOWABLE AREA
				N/A		N/A	UNLIMITED	
LEVEL 1	А	8,959	9,500		19,000			28,500
LEVEL 2	А	7,517	9,500		19,000			28,500
LEVEL 3	S	1,930	17,500		35,000			42,500
TOTAL		18,406		V		V	V	

¹ Frontage area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum with = _____(F) b. Total Building Perimeter = ____ (P) c. Ratio (F/P) = ____ (F/P) d. W = Minimum width of public way = ____ (W)

e. Percent of frontage increase $I_f = 100 \, [F/P - 0.25] \, x \, W/30 =$ (%) ² The sprinkler increase per Section 506.3 is as follows: a. Multi-story building I_S= 200 percent b. Single story building I_S= 300 percent

³ Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.3), A-3 (507.6); Group A motion picture (507.10); covered malls (402.6); and H-2 aircraft paint hangers (507.8). ⁴ Maximum Building Area = total number of stories in the building x E but not greater that 3 x E (506.4). ⁵ The maximum area of a single-use parking garage shall be permitted to comply with Table 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

FIRE PROTECTION REQUIREMENTS (Tables 601 & 602)

Life Safety Plan Sheet # A100.1 SEPARATION REQ'D PROVIDED DISTANCE (FEET) REDUCTION) Structural Frame, including columns, girders, trusses Bearing Walls Exterior North > 30' East West > 30' South > 30' Interior Nonbearing walls and Partitions Exterior 0/NC 0/NC North > 30' 0/NC > 30' 0/NC 0/NC South > 30' 0/NC 0/NC Interior 0/NC 0/NC Floor Construction including supporting beams and joists ** Roof Construction including supporting beams and joists Shafts - Exit (707.4) Shafts - Other (707.4) Corridor Separation (T1017.1) 0 0 Occup. Separation (T508.3.3) 0 (508.2.4)

N/A N/A Atrium Separation (404.5) * Indicate section number permitting reduction ** Ceiling panels are not a part of floor assembly. N.R. = not required N/A = not applicable NC = noncombustible

N/A N/A

0 N/A

0-NC(710.3) 0-NC

0 0

N/A N/A

AREA OF WORK

Party/Fire Wall Separation

Smoke Barrier Separation Smoke Partition Separation

Tenant Separation (708.1)

Incidental Use Separation

EXISTING BUILDING CODE CLASSIFICATION

☐ 402 - REPAIRS ☐ 406 - CHANGE OF OCCUPANCY ☐ 403 - ALTERATION LEVEL 1 ☐ 407 - ADDITIONS ■ 404 - ALTERATION LEVEL 2 ■ 408 - HISTORIC BUILDINGS ☐ 405 - ALTERATION LEVEL 3 ☐ 409 - RELOCATED BUILDINGS

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

CINDER AND ART	AI TOLIVI		EXIIO				
FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NUMBER OF EXITS		TRAVEL DISTAN	NCE	ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1015.2.1)		
	REQUIRED Table 1021.1	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS	
AREA OF WORK - LEVEL 1	2	3	250'	106' - 4"	41'	97' - 10"	
AREA OF WORK - LEVEL 2	2	2	250'	194' - 4"	41'	56' - 4"	
AREA OF WORK - LEVEL 3	2	2	250'	81' - 8"	41'	74' - 1"	

¹ Corridor Dead Ends (Section 1017.3) ² Buildings with single exits (Table 1019.2), Spaces with one means of egress (Table 1015.1) ³ Common Path of Travel (Section 1014.3)

OCCUPANT LOAD AND EXIT WIDTH

USE GROUP	(a)	(b)		10	c)	EXIT WIDTH (in) 2,3,4,5,6			
OR SPACE DESCRIPTION ⁷	AREA ¹ sq. ft.	AREA ¹ PER OCCUPANT	CALCULATED OCCUPANT LOAD		WIDTH CUPANT		D WIDTH 1005.1)		. WIDTH ON PLANS
		(Table 1004.1.1)	(a ÷ b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
LEVEL 1 FLOOR (AREA OF WORK)	8,959	100 gross	281	N/A	0.2	N/A	56.2"	N/A	
AREA OF WORK TOTAL	8,959		281	N/A	0.2	N/A	56.2"	N/A	
LEVEL 1		100 gross		N/A	0.2	N/A		N/A	
(REMAINING FLOOR SPACE)		15 net		N/A	0.2	N/A		N/A	
REMAINING FLOOR									
SPACE TOTAL TOTAL FLOOR	8,959		281		0.2		56.2"		
OCCUPANCY	, , , , , , , , , , , , , , , , , , ,								
LEVEL 2 FLOOR (AREA OF WORK)	7,517	100 gross	263	N/A	0.2	N/A	52.6"	N/A	
,									
AREA OF WORK TOTAL	7,517		263	N/A	0.2	N/A	52.6"	N/A	
LEVEL 2 (REMAINING		100 gross		N/A	0.2	N/A		N/A	
FLOOR SPACE)		15 net		N/A	0.2	N/A		N/A	
REMAINING FLOOR SPACE TOTAL					0.2				
TOTAL FLOOR OCCUPANCY	7,517		263		0.2		52.6"		



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infringement will be subject to legal action.

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——ⓒ Little 2016 —



CONSTRUCTION

ISSUE DATE

08/02/2016

S OF THE CONTRACT FOR CONSTRUCTION uction", AIA A201 is hereby made a part of these AIA A201 can be obtained from Owner's

rom Contractor on AIA Document G709, Architect ment G701, for all changes to the Contract Sum e on the terms of a proposal, Architect may issue

PROCEDURES

Document G714, instructing Contractor to nt inclusion in a Change Order. Construction ion of the change and designate the method to be ontract Sum or the Contract Time. 10 days before the initial Application for n into at least one line item for each Specification

ontents. Coordinate the Schedule of Values with ole dollar: total shall equal the Contract Sum. the Schedule of Values for initial cost of materials t part of the Work. or payment on AIA Document G702/703, Owner/Contractor Agreement. nent, submit waivers of mechanic's liens from ors, and suppliers for construction period covered yment after completion of Project closeout and supporting documentation. y to final payment on AIA Document G707 and

ngs for utilities, a record of stored fuel, and similar stantial Completion. UIREMENTS

INATION ficient and orderly installation of each part of the tings at Project site at regular intervals. Notify nd times. Require attendance of each with current progress or involved with planning or nd distribute to everyone concerned, including

cation, purchasing, testing, delivery, other quire sequential activity. ime will be authorized because of failure to vance of the Work to permit processing, including ubmittal. Architect will return one copy. s received from sources other than Contractor on each submittal for identification. Provide a abel or beside title block to record Contractor's on taken by Architect. Include the following

ractor or supplier. Specification Section Documents on submittals. Submittal Procedure: Submit two copies of blished for Commencement of the Work. ow applicable products and options. Include the

endations, product specifications, and installation rv-installed wiring. nd operational range diagrams. ndards and requirements. ecific information, drawn accurately to scale. Do ns of the Contract Documents or standard printed y 11 inches but no larger than 30 by 42 inches.

wings and roughing-in and setting diagrams. installed wiring. shed by field measurement. v of kind, color, pattern, and texture and for a tween submittal and actual component as of manufacturer and product name on label ial or product, submit at least three sets of paired empleted projects with project names and

chitects and owners, and other information

statements on manufacturer's letterhead uirements in the Contract Documents. EDULE nprehensive, fully developed, horizontal s of date established for commencement of the t construction activity separately. Identify first us vertical line. coordination with other Work of the Contract and

nents. Note corrections and field dimensions. tting to Architect. nittal, make marks to indicate corrections or as appropriate to indicate action taken, and ule to Owner, Architect, subcontractors, testing entified by Contractor with a need-to-know s are made, distribute updated schedules to the

e schedule to reflect actual construction progress k before each regularly scheduled progress ate Actual Completion percentage for each

are included in the Conditions of the Contract wner's action on Contractor's submittals, is limited to Owner's duties and responsibilities as n by Owner. Other terms including "requested," quired," and "permitted" have the same meaning d by graphic representations or in written form on r Contract Documents. Other terms including cified" have the same meaning as "indicated. atutes, and lawful orders issued by authorities ns, and agreements within the construction ect site, ready for unloading, unpacking, ncluding unloading, temporarily storing, g, anchoring, applying, working to dimension, nd similar operations.

ete and ready for the intended use.

rforming construction activities. The extent of

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

1.1 SECTION REQUIREMENTS

A. Use Charges: Cost or use charges for temporary facilities shall be included in the Contract Sum. B. Use water and electric power from Owner's existing system without metering and without payment of use charges. C. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70. PART 2 - PRODUCTS A. Heating Equipment: Unless Owner authorizes use of permanent heating system,

provide vented, self-contained heaters with thermostatic control. 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited. 2. Heating Units: Listed and labeled, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. PART 3 - EXECUTION 3.1 TEMPORARY UTILITIES A. General: Arrange with utility company, Owner, and existing users for time when

service can be interrupted, if necessary, to make connections for temporary services. B. Sanitary Facilities: Use of Owner's existing toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use. C. Heating and Cooling: Provide temporary heating and cooling required for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. D. Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions. 3.2 TEMPORARY SUPPORT FACILITIES A. Provide field offices, storage and fabrication sheds, and other support facilities as

necessary for construction operations B. Provide waste-collection containers in sizes adequate to handle waste from construction operations. Collect waste daily and, when containers are full, legally dispose of waste off-site. Comply with requirements of authorities having jurisdiction. C. Install project identification and other signs in locations approved by Owner and Architect to inform the public and persons seeking entrance to Project.

3.3 TEMPORARY SECURITY AND PROTECTION FACILITIES A. Provide temporary environmental protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects. B. Provide temporary enclosures for protection of construction and workers from

inclement weather and for containment of heat. C. Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner and tenants from fumes and noise. D. Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting. E. Remove and safely store existing window treatment during construction.

 Clean and reinstall at time of Substantial Completion. F. Furnish and install site enclosure in a manner that will prevent easy entering except by G. Install and maintain temporary fire-protection facilities. Comply with NFPA 241. 3.4 TERMINATION AND REMOVAL A. Temporary Utilities: At earliest feasible time, when acceptable to Owner, change over

from use of temporary service to use of permanent service. B. Remove temporary facilities and controls no later than Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner. END OF SECTION 01 50 00

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 - GENERAL **1.1 SECTION REQUIREMENTS** A. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent B. Procure products from regional area of project location.

C. Product Substitutions will only be considered when specified product is no longer D. Product Substitutions: Substitutions include changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor after award of the Contract. 1. Submit three copies of each request for product substitution.

2. Submit requests within days after the Notice of Award. 3. Do not submit unapproved substitutions on Shop Drawings or other submittals. 4. Identify product to be replaced and show compliance with requirements for substitutions. Include a detailed comparison of significant qualities of proposed substitution with those of the Work specified, a list of changes needed to other parts of the Work required to accommodate proposed substitution, and any proposed changes in the Contract Sum or the Contract Time should the

substitution be accepted. 5. Architect will review the proposed substitution and notify Contractor of its acceptance or rejection by Change Order. E. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written

instructions. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces. 2. Deliver products to Project site in manufacturer's original sealed container or packaging, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. 3. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected. 4. Store materials in a manner that will not endanger Project structure. 5. Store products that are subject to damage by the elements, under cover in a

weathertight enclosure above ground, with ventilation adequate to prevent condensation. F. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

PART 2 - PRODUCTS 2.1 PRODUCT OPTIONS

A. Product Selection Procedures: 1. Where Specifications name a single product or manufacturer, provide the item indicated that complies with requirements. 2. Where Specifications include a list of names of products or manufacturers, provide one of the items indicated that complies with requirements. B. Unless otherwise indicated, Architect will select color, pattern, and texture of each product from manufacturer's full range of options that includes both standard and

premium items. PART 3 - EXECUTION (Not Applicable)

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS

END OF SECTION 01 60 00

PART 1 - GENERAL 1.1 CLOSEOUT SUBMITTALS A. Record Drawings: Maintain a set of prints of the Contract Drawings as Record Drawings. Mark to show actual installation where installation varies from that shown

1. Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location. PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION 3.1 EXAMINATION AND PREPARATION A. Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level, plumb, smooth,

clean, and free of deleterious substances; substrates within installation tolerances; and application conditions within environmental limits. Proceed with installation only after unsatisfactory conditions have been corrected B. Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to property survey and existing benchmarks C. Take field measurements as required to fit the Work properly. Where fabricated products are to be fitted to other construction, verify dimensions by field measurement

before fabrication and, when possible, allow for fitting and trimming during installation. 3.2 CUTTING AND PATCHING A. Do not cut structural members or operational elements without prior written approval of Architect. B. Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to

C. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections. 3.3 INSTALLATION

A. Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned with other portions of the Work. Clean

exposed surfaces and protect from damage.

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS (Continued) 6. Deliver tools, spare parts, extra materials, and similar items. Make final changeover of permanent locks and deliver keys to Owner.

8. Complete startup testing of systems. Remove temporary facilities and controls. 10. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

11. Complete final cleaning requirements, including touchup painting. 12. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects. B. Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after

inspection or will advise Contractor of items that must be completed or corrected before certificate will be issued. C. Request inspection for Final Completion, once the following are complete: Submit a copy of Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance. 2. Instruct Owner's personnel in operation, adjustment, and maintenance of

 D. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected. E. Submit a written request for final inspection for acceptance. On receipt of request, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare final Certificate for Payment after inspection or will advise Contractor of items that must be completed or corrected before certificate will be issued. 3.6 DEMONSTRATION AND TRAINING

A. Engage qualified instructors to instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system. Include a detailed 1. Include instruction for basis of system design and operational requirements,

review of documentation, emergency procedures, operations, adjustments, troubleshooting, maintenance, and repairs. END OF SECTION 01 70 00

products, equipment, and systems.

SECTION 01 73 29 - CUTTING AND PATCHING PART 1 - GENERAL

1.1 SUBMITTALS A. Cutting and Patching Proposal: Submit a proposal describing procedures at least 10 days before the time cutting and patching will be performed requesting approval to proceed. Include the following information:

1. Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided. 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements. 3. Products: List products to be used and firms or entities that will perform the

4. Dates: Indicate when cutting and patching will be performed. 5. Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted. 6. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations

showing integration of reinforcement with original structure. 7. Architect's] Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

1.2 QUALITY ASSURANCE A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio. B. Operational Elements: Do not cut and patch operating elements and related

components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or C. List below is an example only. Revise to suit Project's operating systems. With advice of counsel, delete below if Architect's approval is not required. If list is deleted,

delete option in paragraph above. D. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety E. Visual Requirements: Do not cut and patch construction in a manner that results in

visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

1.3 WARRANTY A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties. PART 2 - PRODUCTS

A. General: Comply with requirements specified in other Sections. or result from demolition or alteration Work, to match adjacent undisturbed

1. Close and patch holes and opening in existing floor, wall, and ceiling which exist 2. Perform new Work, and restore and refinish existing Work, to comply with applicable requirements of Sections for new Work.

B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place

PART 3 - EXECUTION 3.1 EXAMINATION A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.

1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers. 2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected. 3.2 PREPARATION

A. Temporary Support: Provide temporary support of Work to be cut. B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations. C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas. D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services

systems are required to be removed, relocated, or abandoned, bypass such services /systems before cutting to prevent interruption to occupied areas. 3.3 PERFORMANCE A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay. 1. Cut in-place construction to provide for installation of other components or

performance of other construction, and subsequently patch as required to restore surfaces to their original condition. B. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections. 1. Inspection: Where feasible, test and inspect patched areas after completion to

demonstrate integrity of installation. 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing. 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if

necessary, to achieve uniform color and appearance. 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance. 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition. C. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

END OF SECTION 01 73 29

PART 1 - GENERAL

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1.3 WASTE MANAGEMENT PLAN A. General: Develop plan consisting of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan. B. Waste Identification: Indicate anticipated types and quantities of demolition and construction waste generated by the Work. Include estimated quantities and

assumptions for estimates. C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures. 1. Salvaged Materials for Reuse: For materials that will be salvaged and reused

in this Project, describe methods for preparing salvaged materials before

2. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers. 3. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone

4. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator 5. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located. PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION 3.1 PLAN IMPLEMENTATION A. General: Implement waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract. B. Training: Train workers, subcontractors, and suppliers on proper waste management

procedures, as appropriate for the Work occurring at Project site. 1. Distribute waste management plan to everyone concerned within three days of submittal return. 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and

C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities. 3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL A. General: Recycle paper and beverage containers used by on-site workers.

B. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical. 1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin. a. Inspect containers and bins for contamination and remove contaminated

materials if found. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent 3. Stockpile materials away from construction area. Do not store within drip line of

4. Store components off the ground and protect from the weather. 5. Remove recyclable waste off Owner's property and transport to recycling receiver or processo 3.3 RECYCLING DEMOLITION WASTE A. Concrete: Remove reinforcement and other metals from concrete and sort with other

B. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood C. Metals: Separate metals by type. 1. Structural Steel: Stack members according to size, type of member, and length.

2. Remove and dispose of bolts, nuts, washers, and other rough hardware. D. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners. E. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location. 1. Separate suspension system, trim, and other metals from panels and tile and

sort with other metals. F. Carpet: Roll large pieces tightly after removing debris, trash, adhesive, and tack 1. Store clean, dry carpet in a closed container or trailer provided by Carpet

Reclamation Agency or carpet recycle G. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs. Protect equipment from exposure to weather. H. Plumbing Fixtures: Separate by type and size.

I. Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size. J. Lighting Fixtures: Separate lamps by type and protect from breakage. K. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit breakers, and other devices by type. L. Conduit: Reduce conduit to straight lengths and store by type and size. 3.4 RECYCLING CONSTRUCTION WASTE

A. Packaging 1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location. 2. Polystyrene Packaging: Separate and bag materials. 3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood. 4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood. B. Wood Materials:

1. Clean Cut-Offs of Lumber: Grind or chip into small pieces. 2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood. C. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location. 3.5 DISPOSAL OF WASTE A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site. 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas

B. Disposal: Transport waste materials off Owner's property and legally dispose of them.

SECTION 02 41 19 - SELECTIVE STRUCTURE DEMOLITION

END OF SECTION 01 74 19

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Comply with EPA regulations and hauling and disposal regulations of authorities having jurisdiction. B. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted. C. It is not expected that hazardous materials will be encountered in the Work. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.

PART 2 - PRODUCTS (Not Applicable) PART 3 - EXECUTION 3.1 DEMOLITION A. Maintain services/systems indicated to remain and protect them against damage during selective demolition operations. Before proceeding with demolition, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of the building.

B. Locate, identify, shut off, disconnect, and cap off utility services and mechanical/electrical systems serving areas to be selectively demolished. C. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain. D. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain or construction being demolished. E. Provide temporary weather protection to prevent water leakage and damage to structure and interior areas. F. Protect walls, ceilings, floors, and other existing finish work that are to remain. Erect

and maintain dustproof partitions. Cover and protect furniture, furnishings, and equipment that have not been removed. G. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. H. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials. FND OF SECTION 02 41 19

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE (continued)

2.2 MIXES A. Comply with ACI 301 requirements for concrete mixtures. B. Normal-Weight Concrete: Prepare design mixes, proportioned according to ACI 301, as follows:

1. Minimum Compressive Strength: 3000 psi at 28 days. 2. Maximum Water-Cementitious Materials Ratio: 0.50. Slump Limit: 4 inches, plus or minus 1 inch. 4. Air Content: Maintain within range permitted by ACI 301. Do not allow air content of floor slabs to receive troweled finishes to exceed 3 percent.

C. Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116. 1. When air temperature is above 90 deg F, reduce mixing and delivery time to 60

PART 3 - EXECUTION 3.1 CONCRETING A. Construct formwork according to ACI 301 and maintain tolerances and surface irregularities within ACI 347R limits of Class A, 1/8 inch for concrete exposed to view and Class C, 1/2 inch for other concrete surfaces. B. Place vapor retarder on prepared subgrade, with joints lapped 6 inches and sealed. C. Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement. D. Install construction, isolation, and contraction joints where indicated. Install full-depth joint-filler strips at isolation joints. E. Place concrete in a continuous operation and consolidate using mechanical vibrating

to hot or cold weather during mixing, placing, and curing. G. Formed Surface Finish: Smooth-formed finish for concrete exposed to view, coated, or covered by waterproofing or other direct-applied material; rough-formed finish H. Slab Finishes: Comply with ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces. Provide the following

F. Protect concrete from physical damage, premature drying, and reduced strength due

1. Troweled finish for floor surfaces and floors to receive floor coverings, paint, or other thin film-finish coatings. 2. Nonslip-broom finish to exterior concrete platforms, steps, and ramps. Cure formed surfaces by moist curing for at least seven days. J. Begin curing concrete slabs after finishing. Keep concrete continuously moist for at

K. Owner will engage a testing agency to perform field tests and to submit test reports. L. Protect concrete from damage. Repair surface defects in formed concrete and slabs. END OF SECTION 03 30 00

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: Shop Drawings showing details of fabrication and installation. PART 2 - PRODUCTS

A. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.

SECTION 05 50 00 - METAL FABRICATIONS

B. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, Alloy 6061-T6. C. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F. A. Nonshrink, Nonmetallic Grout: ASTM C 1107; recommended by manufacturer for exterior applications.

2.3 FABRICATION A. General: Shear and punch metals cleanly and accurately. Remove burrs and ease exposed edges. Form bent-metal corners to smallest radius possible without impairing B. Welding: Weld corners and seams continuously. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals. At exposed connections, finish welds and surfaces smooth with contour of welded surface matching those adjacent.

2.4 STEEL AND IRON FINISHES A. Prepare uncoated ferrous metal surfaces to comply with SSPC-SP 3, "Power Tool Cleaning," and paint with a fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79. PART 3 - EXECUTION 3.1 INSTALLATION

A. Perform cutting, drilling, and fitting required for installing miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack. B. Fit exposed connections accurately together to form hairline joints. C. Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint. END OF SECTION 05 50 00

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

E. Thermoset Decorative Panels: Comply with LMA SAT - 1.

F. High-Pressure Decorative Laminate: NEMA LD 3.

A. Submittals: Product Data for materials and Shop Drawings. B. Quality Standard: Architectural Woodwork Institute's "Architectural Woodwork Quality Standards". C. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is completed, and HVAC system is operating. D. Provide products having a percentage of post consumer and/or preconsumer recycled content.

PART 2 - PRODUCTS 2.1 MATERIALS A. Hardboard: AHA A135.4. B. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde. C. Softwood Plywood: DOC PS 1. D. Hardwood Plywood and Face Veneers: HPVA HP-1, made with adhesive containing no urea formaldehyde.

G. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying 2.2 CABINET HARDWARE AND ACCESSORY MATERIALS A. Provide hardware as indicated complying with BHMA A156.9. B. Exposed Hardware Finishes: Comply with BHMA A156.18 for BHMA code number

C. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated lumber, kiln dried to 15 percent moisture content. D. Adhesives: Provide adhesives containing low voc content and no ureaformaledhyde. E. Provide wood products complying with FSC-accredited certification body. 2.3 INTERIOR WOODWORK A. Complete fabrication to maximum extent possible before shipment to Project site.

Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting. B. Backout or groove backs of flat trim members and kerf backs of other wide, flat C. Interior Standing and Running Trim for Transparent Finish: Custom grade, species as D. Interior Standing and Running Trim for Opaque Finish: Custom grade, made from any closed-grain hardwood. E. Interior Ornamental Work for Transparent Finish: Custom grade, made from species as indicated.

F. Interior Ornamental Work for Opaque Finish: Custom grade, made from any closed-grain hardwood. G. Wood Cabinets for Transparent Finish: Custom grade. 1. AWI Type of Cabinet Construction: Flush overlay. 2. Wood Species and Cut for Exposed Surfaces: As indicated, and directed by

3. Grain Direction: As directed by Architect. 4. Matching of Veneer Leaves: As directed by Architect. 5. Semiexposed Surfaces Other Than Drawer Bodies: Same species and cut indicated for exposed surfaces. 6. Drawer Sides and Backs: Solid-hardwood lumber, stained to match species indicated for exposed surfaces 7. Drawer Bottoms: Thermoset decorative panels

2. Drawer Sides and Backs: Solid hardwood. 3. Drawer Bottoms: Thermoset decorative panels. I. Plastic-Laminate Countertops: Premium grade, Greenguard certified laminate. 1. Laminate Grade: HGS for flat countertops, HGP for post-formed countertops. 2. Edge Treatment: Same as laminate cladding on horizontal surfaces. J. Solid-Surfacing Material Countertops: Custom grade 1. Solid-Surfacing Material Thickness: 3/4 inch.

H. Plastic-Laminate Cabinets: Custom grade, Greenguard certified laminate.

1. AWI Type of Cabinet Construction: Flush overlay.

2. Fabricate tops in one piece with shop-applied edges.

2.4 SHOP FINISHING OF INTERIOR ARCHITECTURAL WOODWORK

A. Finishes: Same grades as items to be finished.

after installation.

a record of successful in-service performance. B. Source Limitations: Obtain penetrating firestopping, for each kind of penetration and construction condition indicated, from a single manufacturer. C. Fire-Test-Response Characteristics: Provide penetrating firestopping that comply with B. Finish architectural woodwork at the fabrication shop; defer only final touch up until the following requirements and those specified in "Performance Requirements" Article: 1. Firestopping tests are performed by a qualified testing and inspecting agency. 1. Apply one coat of sealer or primer to concealed surfaces of woodwork. A qualified testing and inspecting agency is UL, or another agency performing

SECTION 06 42 00 - WOOD PANELING

PART 1 - GENERAL 1.1 SUMMARY A. Paneling includes wood furring, blocking, and shims for installing paneling, unless concealed within other construction before paneling installation.

1.2 SUBMITTALS A. Product Data: For finishing materials and processes. B. Shop Drawings: Show location of paneling, large-scale details, attachment devices, and other components. Include dimensioned plans and elevations.

1. Lumber and panel products for transparent finish, for each species and cut, finished on one side and one edge. 1.3 QUALITY ASSURANCE A. Installer Qualifications: Participant in AWI Quality Certification Program.

B. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural

Woodwork Quality Standards." PART 2 - PRODUCTS 2.1 PANELING FABRICATORS A. Fabricators: Subject to compliance with requirements, provide paneling by one of the

2.2 FIRE-RETARDANT-TREATED MATERIALS A. Fire-Retardant Fiberboard: ANSI A208.2 medium-density fiberboard panels made f rom softwood fibers, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture with flame-spread index of 25 or less and smoke-developed

index of 200 or less per ASTM E 84. 2.3 INSTALLATION MATERIALS A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, fire-retardant-treated, kiln-dried to less than 15 percent moisture content. B. Adhesives: Provide adhesives containing low you content and no ureaformoldehy C. Provide wood panel products complying with FSC-accredited certification body.

A. Paneling Grade: Provide Custom grade paneling complying with referenced quality B. Complete fabrication to maximum extent possible, before shipment to Project site. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and C. Flush Wood Paneling for Transparent Finish:

1. Wood Species and Cut: As indicated on Finish Schedule. 2. Trim and Edges: At paneling fabricator's option, trim and edges indicated as solid wood (except moldings) may be either lumber or veneered construction of same species and cut as panel faces and compatible with grain and color of panel 3. Matching of Adjacent Veneer Leaves: Slip match.

5. Panel-Matching Method: No matching between panels is required. Select and

arrange panels for similarity of grain pattern and color between adjacent panels. 6. Panel-Matching Method: In each separate area, use sequence-matched, uniform-size sets. 7. Fire-Retardant-Treated Paneling: Provide panels consisting of wood veneer and fire-retardant particleboard or fire-retardant medium-density fiberboard. Panels shall have flame-spread index of 25 or less and smoke-developed index of 450 or less per ASTM E 84.

Matching within Panel Face: Center-balance match.

8. Provide paneling of 3/4-inch minimum thickness. 2.5 SHOP FINISHING A. General: Finish paneling at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation. B. General: Shop finish transparent-finished paneling at fabrication shop as specified in this Section. Refer to Division 09 painting Sections for finishing of opaque-finished

C. Backpriming: Apply two coats of sealer or primer, compatible with finish coats, to concealed surfaces of paneling. D. Transparent Finish: Comply with requirements indicated below for grade, finish system, staining, and sheen, with sheen measured on 60-degree gloss meter per ASTM D 523: Grade: Premium. 2. AWI Finish System: TR-4, conversion varnish. Staining: Match sample. 4. Wash Coat for Stained Finish: Apply a wash coat sealer to woodwork made

5. Sheen: Satin, 30-50 gloss units. PART 3 - EXECUTION A. Before installation, condition paneling to average prevailing humidity conditions in installation areas. Examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming. B. Grade: Install paneling to comply with requirements for same grade specified in Part 2 for fabrication of type of paneling involved.

C. Install paneling level, plumb, true, and straight. Shim as required with concealed

from closed-grain wood before staining and finishing.

shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.

1. For flush paneling, install with variations in reveal width, alignment of top and bottom edges, and flushness between adjacent panels not exceeding 1/16 inch. D. Scribe and cut paneling to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts. E. Anchor paneling to supporting substrate with concealed panel-hanger clips. Do not use face fastening.

SECTION 07 84 13 - PENETRATION FIRESTOPPING

1. Penetrations located outside wall cavities.

END OF SECTION 06 42 00

PART 1 - GENERAL 1.1 PERFORMANCE REQUIREMENTS A. General: For the following constructions, provide penetrating firestopping that are produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of assembly penetrated.

1. Fire-resistance-rated non-load-bearing walls, including partitions, with fire-protection-rated openings. 2. Comply with jurisdictional requirements for locations and firestopping systems. B. F-Rated Systems: Provide penetrating firestopping with F-ratings indicated, as determined per ASTM E 814, but not less than that equalingor exceeding fire-resistance rating of constructions penetrated. C. T-Rated Systems: For the following conditions, provide penetrating firestopping with T-ratings indicated, as well as F-ratings, as determinedper ASTME 814, where systems protect penetrating items exposed to potential contact with adjacent materials in occupiable floor areas:

2. Penetrations located in construction containing fire-protection-rated openings. 3. Penetrating items larger than 4-inch- diameter nominal pipe or 16 sq. in. in overall cross-sectional area. D. For penetrating firestopping exposed to view, traffic, moisture, and physical damage. provide products that after curing do not deteriorate when exposed to these conditions both during and after construction. For piping penetrations for plumbing provide moisture-resistant penetrating

2. For penetrations involving insulated piping, provide penetrating firestopping not requiring removal of insulation. E. For penetrating firestopping exposed to view, provide products with flame-spread ratings of less than 25 and smoke-developed ratings of less than 450, as determined per

1.2 SUBMITTALS A. Product Data: For each type of penetrating firestopping system product indicated. B. Shop Drawings: For each penetrating firestopping, show each kind of construction condition penetrated, relationships to adjoining construction, and kind of penetrating item. Include firestop design designation of testing and inspecting agency acceptable to authorities having jurisdiction that evidences compliance with requirements for each condition indicated.

1. Submit documentation, including illustrations, from a qualified testing and

inspecting agency that is applicable to each penetrating firestopping configuration for construction and penetrating items. 2. Where Project conditions require modification of qualified testing and inspecting agency's illustration to suit a particular penetrating firestopping condition, submit illustration, with modifications marked, approved by penetrating firestopping manufacturer's fire-protection engineer. C. Qualification Data: If requested by Architect, for firms and persons specified in

"Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified. 1.3 QUALITY ASSURANCE A. Installer Qualifications: An experienced installer who specializes in the installation of firestop and has completed penetrating firestopping similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with

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nd field experience. h firestop system that are needed to install Requirements" Article. Use only nufacturer and approved by the qualified tems indicated. Accessories include, but g materials, including the following: with other forming/damming/backing ill materials in liquid state.

ping that are compatible with one another

th the items, if any, penetrating penetrating

application, as demonstrated by penetrating

ING (continued)

containing the types of fill materials edule at the end of Part 3 by reference to e. Fill materials are those referred to in ecting agencies as fill, void, or cavity ormulations that after cure do not

ars formed from galvanized steel and lined diameter of penetrant. nels consisting of aluminum-foil-faced tric, water-resistant putties containing no ent intumescent elastomeric sheets with pillows/bags consisting of glass-fiber cloth per, water-insoluble expansion agents and -based liquid elastomers that, when mixed,

e, nonshrinking foam. component, silicone-based indicated below: ulation for openings in floors and other ation for openings in vertical and other nable sealant, unless indicated firestop both opening conditions. nstaller present, for compliance with etrating items, substrates, and other

factory conditions have been corrected. mediately before installing penetrating dations of firestop system manufacturer and ubstrates and from penetrating items foreign sion of penetrating firestopping.

trating items to produce clean, sound m bond with penetrating firestopping cleaning operation. ended in writing by penetrating firestopping nmended products and methods. Confine ge and migration onto exposed surfaces. ent penetrating firestopping from contacting on completion of Work and that would d by such contact or by cleaning methods materials. Remove tape as soon as seal with substrates.

comply with "Performance anufacturer's written installation instructions lications indicated. and other accessories of types required to and in the position needed to produce o achieve fire ratings indicated. proven techniques to produce the following enings, forming materials, accessories, and

ve, self-adhesive, preprinted vinyl labels. Attach labels oth sides of each firestop system installation where rating items or firestop systems. Include the following ing -- Do Not Disturb. Notify Building Owner of Any

e fire-resistance ratings indicated.

adhere to substrates formed by openings

osed after completing Work, finish to match

cable testing and inspecting agency. s Work progresses by methods and with cleaning estopping manufacturers and that do not damage

g and after installation that ensure penetrating of Substantial Completion. If, despite such protection, naged or deteriorated penetrating firestopping ating firestopping complying with specified

d with installation of joint sealants when s are outside limits permitted by joint fillers, and other related materials that are bstrates under service and application

ic Tile and Other Hard Surfaces in Toilet silicone sealant, ASTM C 920, Type S; nd O; formulated with fungicide. oor and Window Frames: nsag, mildew-resistant, paintable, h ASTM C 834.

x sealant complying with ASTM C 834. ng, nonstaining, gunnable, synthetic-rubber ior concealed joints to reduce transmission

erial and type that are nonstaining; are mers, and other joint fillers; and are t manufacturer. 30, of size and density to control sealant optimum sealant performance. other plastic tape recommended by from adhering to rigid, inflexible joint-filler

"Fire Exit Hardware." PART 2 - PRODUCTS 1. Hinges with stainless-steel pins for exterior. 2. Nonremovable hinge pins for exterior and public interior exposure.

C. Fire-Resistance-Rated Assemblies: Provide products that comply with NFPA 80 and are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for applications indicated. On exit devices provide label indicating

C. Fire-Rated Doors and Frames: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per NFPA. At stairs and exit passageways, provide doors that have a temperature rise

A. Cold-Rolled Steel Sheets: ASTM A 1008/A 1008M, suitable for exposed applications , B. Hot-Rolled Steel Sheets: ASTM A 1011/A 1011M, free of scale, pitting, or surface defects, containing recycled material. C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, with G40A40 metallic coating. D. Frame Anchors: ASTM A 591/A 591M, 4OZ coating designation; mill phosphatized. For anchors built into exterior walls, sheet steel complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, hot-dip galvanized according END OF SECTION 08 80 00

to ASTM A 153/A 153M, Class B. E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M 2.2 HOLLOW METAL DOORS AND FRAMES A. Doors: Complying with ANSI 250.8 for level and model and ANSI A250.4 for physical-endurance level indicated, 1-3/4 inches thick unless otherwise indicated. 1. Interior Doors: Level 2 and Physical Performance Level B (Heavy Duty), Model 1 (Full Flush). 2. Exterior Doors: Level 2 and Physical Performance Level B (Heavy Duty), Model 1 (Full Flush), metallic-coated steel sheet faces. 3. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with

reinforcement plates from same material as door face sheets. B. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated. Steel Sheet Thickness for Interior Doors: 0.042 inch. 2. Steel Sheet Thickness for Exterior Doors: 0.053 inch. 3. Fabricate interior frames with mitered or coped and continuously welded comers, or both comers knocked down for field assembly; as indicated. 4. Fabricate exterior frames from metallic-coated steel sheet, with mitered or coped and continuously welded corners.

5. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames. 6. Frame Anchors: Not less than 0.042 inch thick. C. Door Silencers: Three on strike jambs of single-door frames and two on heads of D. Prepare doors and frames to receive mortised and concealed hardware according to

ANSI A250.6 and ANSI A115 Series standards. E. Reinforce doors and frames to receive surface-applied hardware. F. Prime Finish: Manufacturer's standard, factory-applied coat of lead- and chromate-free primer complying with ANSI/SDI A250.10 acceptance criteria. PART 3 - EXECUTION 3.1 INSTALLATION A. Install hollow metal frames to comply with ANSI/SDI A250.11.

 Fire-Rated Frames: Install according to NFPA 80. B. Install doors to provide clearances between doors and frames as indicated in ANSI/SDI A250.11. C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying rust-inhibitive primer. Use galvanizing repair paint for metallic coated surfaces.

SECTION 08 14 16 - FLUSH WOOD DOORS PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

END OF SECTION 08 11 13

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

A. Submittals: Product Data and Shop Drawings.

B. Comply with ANSI/SDI A250.8.

rating of 450 deg F.

containing recycled material.

PART 1 - GENERAL

PART 2 - PRODUCTS

2.1 MATERIALS

1.1 SECTION REQUIREMENTS

A. Submittals: Samples for factory-finished doors. B. Quality Standard: WDMA I.S.1-A. C. Fire-Rated Wood Doors: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per NFPA 252. At stairs and exit passageways, provide doors that have a temperature rise rating of 450 deg F.

PART 2 - PRODUCTS 2.1 DOOR CONSTRUCTION, GENERAL A. WDMA I.S.1-A Performance Grade: Heavy Duty unless otherwise indicated. B. Core Doors: Provide partical board lumber cores for doors, containing no ureaformaldehyde.

C. Fire-Protection-Rated Doors: Provide core specified or mineral core as needed to provide fire-protection rating indicated. Provide the following for mineral-core doors: Composite blocking where required to eliminate through-bolting hardware. Laminated-edge construction. Formed-steel edges and astragals for pairs of doors. 2.2 FLUSH WOOD DOORS

A. Doors for Transparent Finish: 1. Interior Solid-Core Doors: Custom grade, five or seven-ply, structural composite lumber cores. a. Faces: Grade A species as indicated. b. Veneer Matching: Slip match, end balanced. c. Pair matching and set matching.

 d. Continuous matching for doors with transoms. 2.3 FABRICATION AND FINISHING A. Factory fit doors to suit frame-opening sizes indicated and to comply with clearances B. Factory machine doors for hardware that is not surface applied. Locate hardware to

C. Factory finish doors indicated for transparent finish with stain and manufacturer's standard finish complying with WDMA System TR-4, conversion varnish for grade specified for doors **PART 3 - EXECUTION**

3.1 INSTALLATION A. Install doors to comply with manufacturer's written instructions, WDMA I.S.1-A and as 1. Install fire-rated doors to comply with NFPA 80. B. Align and fit doors in frames with uniform clearances and bevels. Machine doors for hardware. Seal cut surfaces after fitting and machining C. Clearances: As follows, unless otherwise indicate

 1. 1/8 inch at heads, jambs, and between pairs of doors. 2. 1/8 inch from bottom of door to top of decorative floor finish or covering. 3. 1/4 inch from bottom of door to top of threshold.

Comply with NFPA 80 for fire-rated doors. D. Repair, refinish, or replace factory-finished doors damaged during installation, as directed by Architect END OF SECTION 08 14 16

SECTION 08 31 13 - ACCESS DOORS AND FRAMES PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: Product Data. B. Fire-Rated Access Doors and Frames: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per the following: Access Doors and Frames: ASTM E 119. PART 2 - PRODUCTS

2.1 MATERIALS A. Steel Sheets: ASTM A 1008/A 1008M or ASTM A 591/A 591M. 2.2 ACCESS DOORS AND PANELS A. Flush Access Doors and Frames with Exposed Trim: Prime-painted steel units. B. Flush Access Doors and Trimless Frames: Prime-painted steel units with drywall

bead flange. C. Fire-Rated, Uninsulated, Flush Access Doors and Frames with Exposed Trim: Prime-painted steel, self-latching units with automatic closer. D. Locks: Flush to finished surface, screwdriver operated. PART 3 - EXECUTION 3.1 INSTALLATION

A. Coordinate location and requirements for access dors and frames with Architect prior B. Install access doors and panels accurately in position. Adjust hardware and door and C. Install fire-rated access doors and panels according to NFPA 80.

SECTION 08 71 00 - DOOR HARDWARE PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: Hardware schedule and keying schedule. B. Deliver keys to Owner.

3. Carrying Channels: Cold-rolled steel, 0.0538 inch thick. C. Partition and Soffit Framing: 1. Studs and Runners: In depth and thickness as indicated. Flat Strap and Backing: 0.0179 inch thick. 4. Resilient Furring Channels: 1/2 inch deep, with single- or double-leg

SECTION 08 80 00 - GLAZING PART 1 - GENERAL (Not Applicable) 1.1 SECTION REQUIREMENTS A. Glass Thickness: Comply with ASTM C1036 for glass lites.

 Deflection subject to rejection by Architect. PART 2 - PRODUCTS 2.1 GLASS A. Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated) or Condition C (coated), Type I, Class 1 (clear) or Class 2 (tinted), Quality Q3, Kind FT (fully tempered) as indicated.

PART 3 - EXECUTION 3.1 INSTALLATION A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are contained in GANA's "Glazing Manual."

B. Set glass lites in each series with uniform pattern, draw, bow, and similar C. Remove nonpermanent labels, and clean surfaces immediately after installation.

SECTION 08 83 00 - MIRRORS PART 1 - GENERAL

1.1 SUBMITTALS A. Product Data: For mirror hardware. A. Glazing Publications: Comply with GANA's "Glazing Manual" and GANA Mirror Division's "Mirrors, Handle with Extreme Care: Tips for the Professional on the Care and

Handling of Mirrors" unless more stringent requirements are indicated PART 2 - PRODUCTS 2.1 SILVERED FLAT GLASS MIRROR MATERIALS A. Clear Glass Mirrors: ASTM C 1503, Mirror Glazing Quality. 2.2 MISCELLANEOUS MATERIALS A. Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85,

B. Edge Sealer: Coating compatible with glass coating and approved by mirror manufacturer for use in protecting against silver deterioration at mirrored glass edges. C. Mirror Mastic: An adhesive setting compound, produced specifically for setting mirrors and certified by both mirror manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrors will be installed. 2.3 MIRROR HARDWARE A. Mirror Clips: As indicated

B. Mirror Standoff: As indicated. C. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed. D. Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of exterior walls and where indicated.

A. Mirror Sizes: To suit Project conditions, cut mirrors to final sizes and shapes. B. Cutouts: Fabricate cutouts for notches and holes in mirrors without marring visible surfaces. Locate and size cutouts so they fit closely around penetrations in mirrors. Cutouts to be approved by Architect.

C. Mirror Edge Treatment: Rounded polished edge. Seal edges of mirrors after edge treatment to prevent chemical or atmospheric penetration of glass coating. PART 3 - EXECUTION

3.1 INSTALLATION A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images. B. Provide a minimum air space of 1/8 inch (3 mm) between back of mirrors and mounting surface for air circulation between back of mirrors and face of mounting

C. For wall-mounted mirrors, install with mirror hardware. 1. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so

heads do not impose point loads on backs of mirrors. D. Protect mirrors from breakage and contaminating substances resulting from construction operations. E. Do not permit edges of mirrors to be exposed to standing water.

F. Maintain environmental conditions that will prevent mirrors from being exposed to moisture from condensation or other sources for continuous periods of time. END OF SECTION 08 83 00

SECTION 08 84 00 - PLASTIC GLAZING PART 1 - GENERAL 1.1 SUBMITTALS

A. Product Data: For each type of plastic glazing sheet and glazing material indicated. B. Shop Drawings: Show details of fabrication and installation. C. Samples: For each exposed product required. PART 2 - PRODUCTS

2.1 GLAZING PLASTICS, GENERAL A. Sizes: Fabricate plastic glazing sheets to sizes required for glazing openings indicated. Allow for thermal expansion and contraction of plastic glazing without restraint and without withdrawal of edges from frames, with edge clearances and tolerances complying with written instructions of plastic glazing manufacturer. B. Provide products as indicated on Finish Schedule.

2.2 GLAZING SEALANTS A. General: Provide manufacturer's standard products of type indicated and complying with the following requirements: 1. Compatibility: Select glazing sealants that are compatible with one another and with other materials they will contact, including plastic glazing products and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience. 2. Suitability: Comply with sealant and glass manufacturers' written instructions

for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation. PART 3 - EXECUTION 3.1 GLAZING, GENERAL A. Comply with combined written instructions of manufacturers of plastic glazing materials, sealants, gaskets, and other glazing materials, unless more stringent

requirements are indicated, including those in referenced glazing publication. B. Glazing channel dimensions indicated on Drawings are designed to provide the necessary bite on plastic glazing, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust plastic glazing lites during installation to ensure that bite is equal on all sides. C. Remove burrs and other projections from glazing channel surfaces. D. Protect plastic glazing surfaces from abrasion and other damage during handling and

installation, according to the following requirements: 3.2 PROTECTING AND CLEANING A. Protect plastic glazing from contact with contaminating substances from construction operations. If, despite such protection, contaminating substances do come into contact with plastic glazing, remove immediately and wash by method recommended in writing by plastic glazing manufacturer.

B. Remove and replace plastic glazing that is broken, chipped, cracked, abraded, or damaged in other ways during construction period, including natural causes, accidents, END OF SECTION 08 84 00

SECTION 09 22 16 - NON-STRUCTURAL METAL FRAMING PART 1 - GENERAL

1.1 SECTION REQUIREMENTS A. Submittals: Product Data. B. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction. PART 2 - PRODUCTS 2.1 METAL FRAMING AND SUPPORTS

A. Steel Framing Members, General: ASTM C 754. 1. Steel Sheet Components: ASTM C 645. Thickness specified is minimum uncoated base-metal thickness. 2. Protective Coating: ASTM A 653/A 653M, G40, hot-dip galvanized zinc coating. B. Suspended Ceiling and Soffit Framing: 1. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch diameter, or double strand of 0.0475-inch- diameter wire. 2. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, and

0.162-inch diameter. 3. Rigid Hat-Shaped Furring Channels: In depth indicated and 0.0179 inch thick. 1.1 SECTION REQUIREMENTS A. Submittals: Product Data. B. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction. C. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 90 and classified per ASTM E 413 by a qualified independent

SECTION 09 29 00 - GYPSUM BOARD

testing and inspecting agency.

PART 1 - GENERAL

PART 2 - PRODUCTS

2.1 PANEL PRODUCTS A. Provide in maximum lengths available to minimize end-to-end butt joints. B. Interior Gypsum Board: ASTM C 36/C 36M or ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard edges. Type X where indicated and Sag-resistant type for ceiling surfaces.

2.2 ACCESSORIES A. Trim Accessories: ASTM C 1047, formed from galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet. For exterior trim, use accessories formed from hot-dip galvanized-steel sheet, plastic, or rolled zinc. Provide cornerbead at outside corners unless otherwise indicated. Provide LC-bead (J-bead) at exposed panel edges.

B. Aluminum Accessories: Extruded-aluminum accessories indicated with Class II, clear anodic finish; AA-C12C22A31. C. Joint-Treatment Materials: ASTM C 475/C 475M. Joint Tape: Paper unless otherwise recommended by panel manufacturer. Joint Compounds: Drying-type, ready-mixed, all-purpose compounds. 3. Skim Coat: For final coat of Level 5 finish, use high-build interior coating product designed for application by airless sprayer and to be used instead of skim

D. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. E. Sound-Attenuation Blankets: ASTM C 665, Type I (unfaced). 3.1 INSTALLATION

coat to produce Level 5 finish.

Provide control joints where indicated.

A. Install gypsum board to comply with ASTM C 840. 1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant. 2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with 3. Multilayer Fastening Methods: Fasten base layers and face layer separately to

supports with screws. B. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies. C. Finishing Gypsum Board: ASTM C 840. 1. At concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints. 2. At substrates for tile, provide Level 2 finish: Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges.

3. Unless otherwise indicated, provide Level 4 finish: Embed tape and apply

separate first, fill, and finish coats of joint compound to tape, fasteners, and trim 4. Where indicated, provide Level 5 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Apply skim coat to entire surface. END OF SECTION 09 29 00

SECTION 09 30 00 - TILING

PART 1 - GENERAL 1.1 SECTION REQUIREMENT A. Submittals: Product Data for tile and installation materials and Samples for tile. B. Floor Tiles: Static coefficient of friction not less than 0.6 for level surfaces and 0.8 for ramps, per ASTM C 1028. PART 2 - PRODUCTS

A. Tile that complies with Standard grade requirements in ANSI A137.1, "Specifications for Ceramic Tile." 2.2 INSTALLATION MATERIALS A. VOC Limit for Adhesives and Fluid-Applied Waterproofing Membranes: 65 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

B. Crack-Suppression Membranes for Thin-Set Tile Installation: Manufacturers standard fabric-reinforced liquid latex product complying with ANSI A118.10. Install for flooring tiles of 12 by 12 or larger. C. Setting and Grouting Materials: Comply with material standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and

methods indicated with low voc content. Thin-Set Mortar Type: Latex-portland cement. Grout Type: Polymer modified unless otherwise indicated. 3. Grout Color: As indicated on Finish Schedule D. Metal Edge Strips: Angle of L-Shap, height to match tile and setting-bed thickness, metal designed specifically for flooring application.

E. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout. PART 3 - EXECUTION 3.1 INSTALLATION

A. Comply with tile installation standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated. 1. For installations indicated below, follow procedures in ANSI's "Specifications for the Installation of Ceramic Tile" for providing 95 percent mortar coverage. a. Tile floors composed of tiles 8 by 8 inches or larger.

 Tile floors composed of rib-backed tiles. B. Comply with TCA's "Handbook for Ceramic Tile Installation." C. Floor Tile Installation Method(s) 1. Over Concrete Subfloors: TCA F113 (thin-set mortar on concrete). 2. Over Concrete Subfloors for Floor Tile 12 by 12 Inches or Larger: TCA F122 thin-set mortar over crack suppression membrane on concrete. D. Wall Tile Installation Method(s):

1. Over Gypsum Board: TCA W242 (organic adhesive on gypsum board and 2. Over Glass-Mat, Water-Resistant Backer Board: TCA W245 with thin-set mortar (thin-set mortar on glass-mat, water-resistant backer board). E. Install tiles on floors as selected by architect.

F. Install tiles on walls as selected by architect. G. Lay tile in grid pattern, unless otherwise indicated. Align joints where adjoining tiles on floor, base, walls, and trim are the same size. H. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cu edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile close to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers

SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

butted and tight gaps are not acceptable.

PART 3 - EXECUTION

END OF SECTION 09 30 00

A. Submittals: Product Data and material Samples B. Surface-Burning Characteristics of Panels: ASTM E 1264, Class A materials, tested per ASTM E 84. C. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting

agency acceptable to authorities having jurisdiction. D. Seismic Standard: Provide acoustical panel ceilings designed and installed to withstand the effects of earthquake motions according to the following: 1. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings". PART 2 - PRODUCTS 2.1 ACOUSTICAL PANELS A. Provide acoustical panels and suspension system as indicated on Finish Schedule.

B. Attachment Devices: Sized for 5 times the design load indicated in ASTM C 635,

Table 1, Direct Hung, unless otherwise indicated. Comply with seismic design

requirements. C. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel wire; ASTM A 641/A 641M, Class 1 zinc coating, soft temper. D. Seismic Struts: Manufacturer's standard product designed to accommodate seismic E. Seismic Clips: Manufacturer's standard seismic clips designed to secure panels in F. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if

not indicated, manufacturer's standard moldings for edges and penetratons that comply with seismic design requirements; formed from sheet metal of same material, finish, an color as that used for exposed flangesof suspension system runners. G. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide m manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements and the

1. Provide trim in full lengths to elevate joint. If joints are reequired, joints to be

exposed surfaces.

SECTION 09 68 13 - TILE CARPETING PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: Product Data and Samples. PART 2 - PRODUCTS

2.1 CARPET TILE A. Provide carpet tile as indicated on Finish Schedule. B. PVC backing is not allowed. C. Adhesives: Waterborne, low voc. D. Critical Radiant Flux Classification: Not less than 0.22 W/sq. cm per ASTM E 648.

3.1 INSTALLATION A. Comply with CRI 104. B. Prepare substrates according to ASTM F710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners. C. Installation Method: Glue down; releasable, pressure-sensitive adhesive. D. Install borders parallel to walls.

SECTION 09 68 16 - SHEET CARPETING PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: Product Data and Samples. PART 2 - PRODUCTS 2.1 CARPET

PART 3 - EXECUTION

END OF SECTION 09 68 13

SECTION 09 72 00 - WALL COVERINGS

 A. Provide carpet as indicated on Finish Schedule. B. PVC backing is not allowed. C. Adhesives: Waterborne, low voc. D. Critical Radiant Flux Classification: Not less than 0.22 w/sq. cm per ASTM E 648. PART 3 - EXECUTION 3.1 INSTALLATION

B. Prepare substrates according to ASTM F710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners C. Installation Method: Direct glue-down. D. Maintain uniformity of carpet direction and lay of pile. At doorways, center seams under door in closed position. Bind or seal cut edges as recommended by carpet

E. Install pattern parallel to walls and borders. END OF SECTION 09 68 16

PART 1 - GENERAL 1.1 SUBMITTALS A. Product Data: For each type of product indicated. B. Shop Drawings: Show location and extent of each wall-covering type. Indicate pattern placement, seams and termination points. C. Samples: Full width treatments, including pattern matching examples.

1. Surface-Burning Characteristics: As follows, per ASTM E 84:

1.2 QUALITY ASSURANCE A. Fire-Test-Response Characteristics: As determined by testing identical wall coverings applied with identical adhesives to substrates according to test method indicated below by a qualified testing agency. Identify products with appropriate markings of applicable

 a. Flame-Spread Index: 25 or less. b. Smoke-Development: 450 or less PART 2 - PRODUCTS 2.1 WALL COVERINGS A. General: Provide rolls of each type of wall covering from same print run or dye lot. B. Provide products as indicated on Finish Schedule 2.2 ACCESSORIES

A. Adhesive: Mildew-resistant, nonstaining, strippable adhesive, for use with specific wall covering and substrate application; as recommended in writing by wall-covering manufacturer and with a VOC content of 50 g/L or less when calculated according to

40 CFR 59, Subpart D (EPA Method 24). B. Primer/Sealer: Mildew resistant, complying with requirements in Division 09 Section and recommended in writing by wall-covering manufacturer for intended substrate. PART 3 - EXECUTION 3.1 INSTALLATION A. Clean substrates of substances that could impair bond of wall covering, including dirt,

oil, grease, mold, mildew, and incompatible primers. B. Prepare substrates to achieve a smooth, dry, clean, structurally sound surface free of flaking, unsound coatings, cracks, and defects. C. Acclimatize wall-covering materials by removing them from packaging in the installation areas not less than 24 hours before installation. D. Cut wall-covering strips in roll number sequence. Change roll numbers at partition

breaks and corners. E. Install wall covering with no gaps or overlaps, no lifted or curling edges, and no visible F. Install seams vertical and plumb at least 6 inches from outside corners and 3 inches from inside corners unless a change of pattern or color exists at corner. No horizontal seams are permitted.

G. Fully bond wall covering to substrate. Remove air bubbles, wrinkles, blisters, and other defects. H. Trim edges and seams for color uniformity, pattern match, and tight closure. Butt seams without any overlay or spacing between strips. I. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces. **END OF SECTION 09 72 00**

SECTION 09 91 20 - PAINTING (PROFESSIONAL LINE PRODUCTS) (continued) PART 3 - EXECUTION 3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for paint application. Comply with procedures specified in PDCA P4. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry. B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers. Notify Architect about anticipated problems when using the materials specified over substrates primed by

3.2 PREPARATION A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surfaceapplied protection before surface preparation and painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the

B. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as

D. Material Preparation: Mix and prepare paint materials according to manufacturer's written instructions. E. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat. 3.3 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators

and techniques best suited for substrate and type of material being applied.

1. Paint colors, surface treatments, and finishes are indicated in the paint 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film. Provide finish coats that are compatible with primers used. 4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, convector covers, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection. 5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only. 6. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.

7. Paint back sides of access panels and removable or hinged covers to match

8. Finish exterior doors on tops, bottoms, and side edges the same as exterior

B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. A minimum of one prime coat and two finish coats is 1. The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth,

SECTION 09 91 20 - PAINTING (PROFESSIONAL LINE PRODUCTS) PART 1 - GENERAL

1.1 SUBMITTALS A. Product Data: For each paint system indicated. B. Samples: Provide 12 by 12 inch samples of each paint color and finish. Paint sample to be applied on same type of substrate as indicated. 1.2 QUALITY ASSURANCE A. Applicator Qualifications: A firm or individual experienced in applying paints and

coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance. B. Source Limitations: Obtain primers for each coating system from the same manufacturer as the finish coats. PART 2 - PRODUCTS 2.1 MANUFACTURERS A. Products: Subject to compliance with requirements, provide one of the products listed

in other Part 2 articles. B. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles: ICI Paints (ICI Paints). 2. Porter Paints (Porter)

PPG Industries, Inc. (Pittsburgh Paints). 4. Sherwin-Williams Co. (Sherwin-Williams). Flame Control Coatings, Inc. (Flame Control Coatings) 2.2 INTERIOR PRIMERS A. Interior Gypsum Board Primer: Factory-formulated latex-based primer for interior

1. ICI Paints; 1000 Prep & Prime Hi-Hide Wall Interior Water-Based Primer Sealer: Applied at a dry film thickness of not less than 1.2 mils. Porter; 867 ProMaster 2000 PVA Drywall Primer Sealer: Applied at a dryfilm thickness of not less than 1.1 mils. 3. Pittsburgh Paints; 6-2 SpeedHide Interior Quick-Drying Latex Sealer: Applied at a dry film thickness of not less than 1.0 mil. 4. Sherwin-Williams: PrepRite High Build Interior Latex Primer/Surfacer B28W601 Series: Applied at a dry film thickness of not less than 1.6 mils. B. Interior Wood Primer for Acrylic-Enamel and Semigloss Acrylic-Enamel Finishes:

Factory-formulated acrylic-latex-based interior wood primer. 1. ICI Paints; 3210 Prep & Prime Gripper Multi-Purpose Interior/Exterior Water-Based Primer Sealer: Applied at a dry film thickness of not less than 1.8 2. Porter; 1129 Blanket Acrylic Primer Sealer: Applied at a dry film thickness of not less than 1.5 mils. 3. Pittsburgh Paints; 6-855 SpeedHide Latex Enamel Undercoater: Applied at a dry film thickness of not less than 1.0 mil. 4. Sherwin-Williams; PrepRite Wall and Wood Primer B49W200 Series: Applied at a dry film thickness of not less than 1.6 mils. C. Interior Ferrous-Metal Primer: Factory-formulated quick-drying rust-inhibitive

acrylic-based metal primer. 1. ICI Paints; 4160 Devguard Multi-Purpose Primer: Applied at a dry film thickness of not less than 2.2 mils. 2. Porter; 215 porter Guard DTM White Acrylic Metal Primer. Applied at a dry film thickness of not less than 2.0 mils. 3. Pittsburgh Paints; 90-712 Pitt-Tech Acrylic Primer: Applied at a dry film thickness of not less than 1.5 mils. 4. Sherwin-Williams; Kem Kromik Universal Metal Primer B66W1: Applied at a dry film thickness of not less than 3.0 mils. D. Interior Zinc-Coated Metal Primer: Factory-formulated galvanized metal primer.

1. ICI Paints; 4160 Devguard Multi-Purpose Primer: Applied at a dry film thickness of not less than 2.0 mils. 2. Porter; 215 Porter Guard DTM White Acrylic Metal Primer: Applied at a dry film thickness of not less than 3.0 mils. 3. Pittsburgh Paints; 90-712 Pitt-Tech Water Borne Acrylic DTM Primer: Applied at a dry film thickness of not less than 3.0 mils. 4. Sherwin-Williams; B66W1 Direct to Metal (DTM) Acrylic Primer: Applied at a dry film thickness of not less than 3.0 mils. RIOR FINISH COATS

Interior Flat Acrylic Enamel: Factory-formulated flat acrylic-latex interior enamel: 1. ICI Paints; 1200 Dulux Professional Velvet Matte Interior Flat Latex Wall & Trim Finish: Applied at a dry film thickness of not less than 1.4 mils. 2. Pittsburgh Paints; 6-70 Line SpeedHide Interior Wall Flat-Latex Paint: Applied at a dry film thickness of not less than 1.0 mil. 3. Sherwin-Williams; ProMar 200 Interior Latex Flat Wall Paint B30W200 Series: Applied at a dry film thickness of not less than 1.4 mils. 4. Porter Paints; Pro-Master 2000 Flat Interior Latex Wall Paint No. 6109: Applied at a dry film thickness of not less than 1.3 mils. Interior Low-Luster Acrylic Enamel: Factory-formulated eggshell acrylic-latex interior

 ICI Paints; 1402 Dulux Professional Acrylic Eggshell Interior Wall & Trim Enamel: Applied at a dry film thickness of not less than 1.4 mils. 2. Porter; 6129 ProMaster 2000 Acrylic Latex Eggshell Enamel: Applied at a dry film thickness of not less than 1.4 mils. 3. Pittsburgh Paints; 6-400 Series SpeedHide Eggshell Acrylic Latex Enamel: Applied at a dry film thickness of not less than 1.25 mils. 4. Sherwin-Williams; ProMar 400 Interior Latex Egg-Shell Enamel B20-4400 Series: Applied at a dry film thickness of not less than 1.6 mils. Interior Semigloss Acrylic Enamel: Factory-formulated semigloss acrylic-latex enamel

1. ICI Paints; 1406 Dulux Professional Acrylic Semi-Gloss Interior Wall & Trim

2. Porter: 6139 Promaster 2000 Acrylic Latex Semi-Gloss Enamel: Applied at a

3. Pittsburgh Paints; 6-500 Series SpeedHide Interior Semi-Gloss Latex: Applied

Enamel: Applied at a dry film thickness of not less than 1.5 mils.

4. Sherwin-Williams; ProMar 400 Interior Latex Semi-Gloss Enamel

B31-4400 Series: Applied at a dry film thickness of not less than 1.3 mils.

dry film thickness of less than 1.5 mils.

at a dry film thickness of not less than 1.0 mil.



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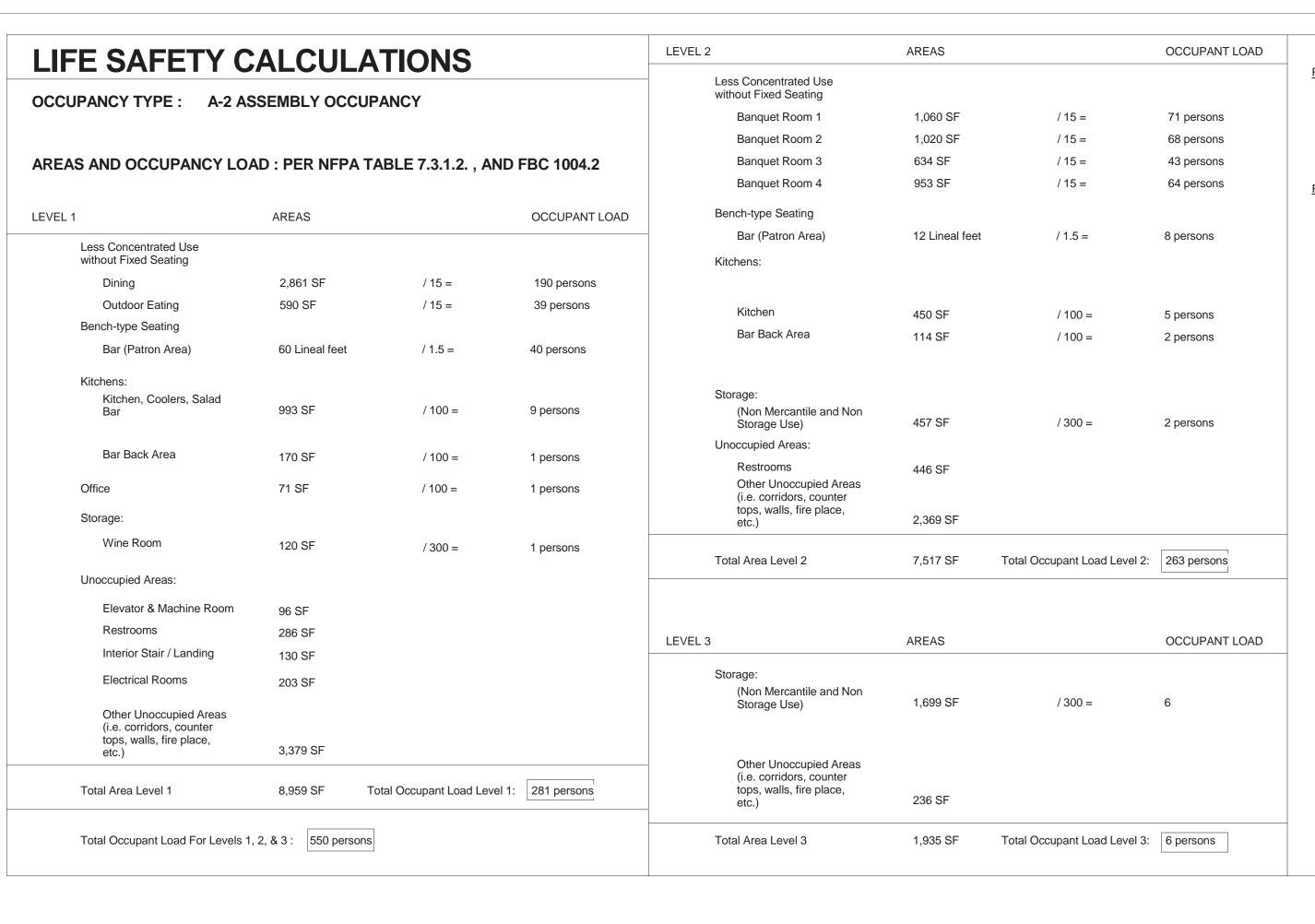
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Orlando, FL 32801

CONSTRUCTION

ISSUE DATE

08/02/2016



REQUIRED WIDTH AT MAIN EXIT:

PER FBC 1028.2, FOR AN ASSEMBLY OCCUPANCY, THE MAIN EXIT MUST ACCOMODATE 50% OF THE TOTAL OCCUPANCY.

> TOTAL RESTAURANT OCCUPANT LOAD: 750 persons / 2 = 375 persons X 0.2 = **75" required** (1) Pr. 48" Doors Provided = **96" provided**

REQUIRED EGRESS WIDTHS OF OTHER EXITS: REMAINING OCCUPANT LOAD: 375 persons / 0.2 = 75" required

(3) 36" Doors Provided as Secondary Exits = 108" provided

TRAVEL DISTANCE:

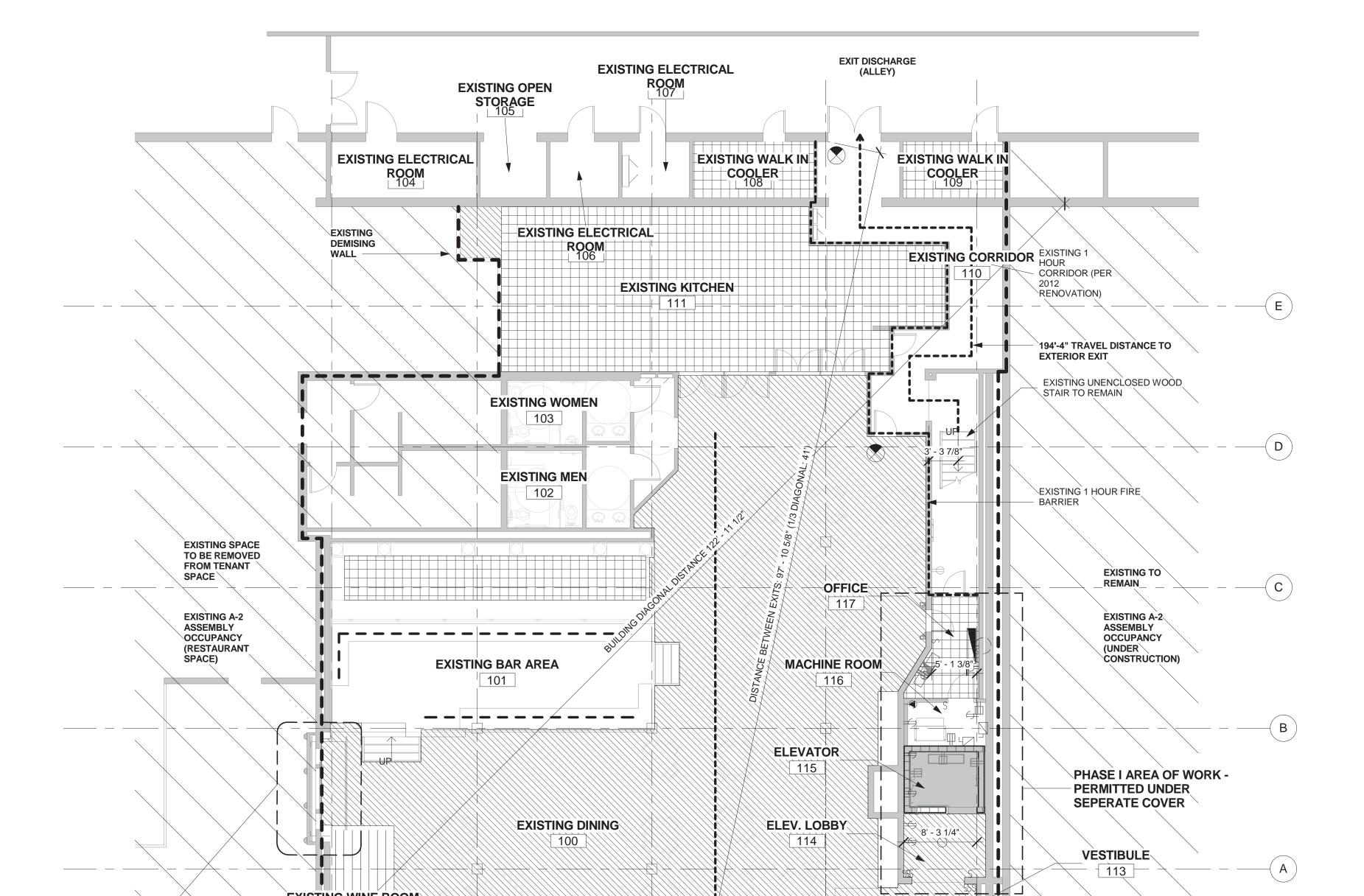
MINIMUM ALLOWABLE TRAVEL DISTANCE: 250' MAXIMUM PROVIDED TRAVEL DISTANCE: 165'

OCCUPANCY LOAD FACTOR SYMBOLS:

----1.5 LINEAR FEET / PERSON UNOCCUPIED SPACE 5 SF / PERSON 15 SF / PERSON 100 SF / PERSON 300 SF / PERSON

KEYNOTE

A-1 ADD ALTERNATE 1:
ALUMINUM CLADDED WOOD OUTSWING BI-FOLD PARTITION, B.O.D.: PELLA: FRAME COLOR: (MATCH EXISTING WOOD) RAL 8012 INSULATED LOW E NON IMPACT GLASS





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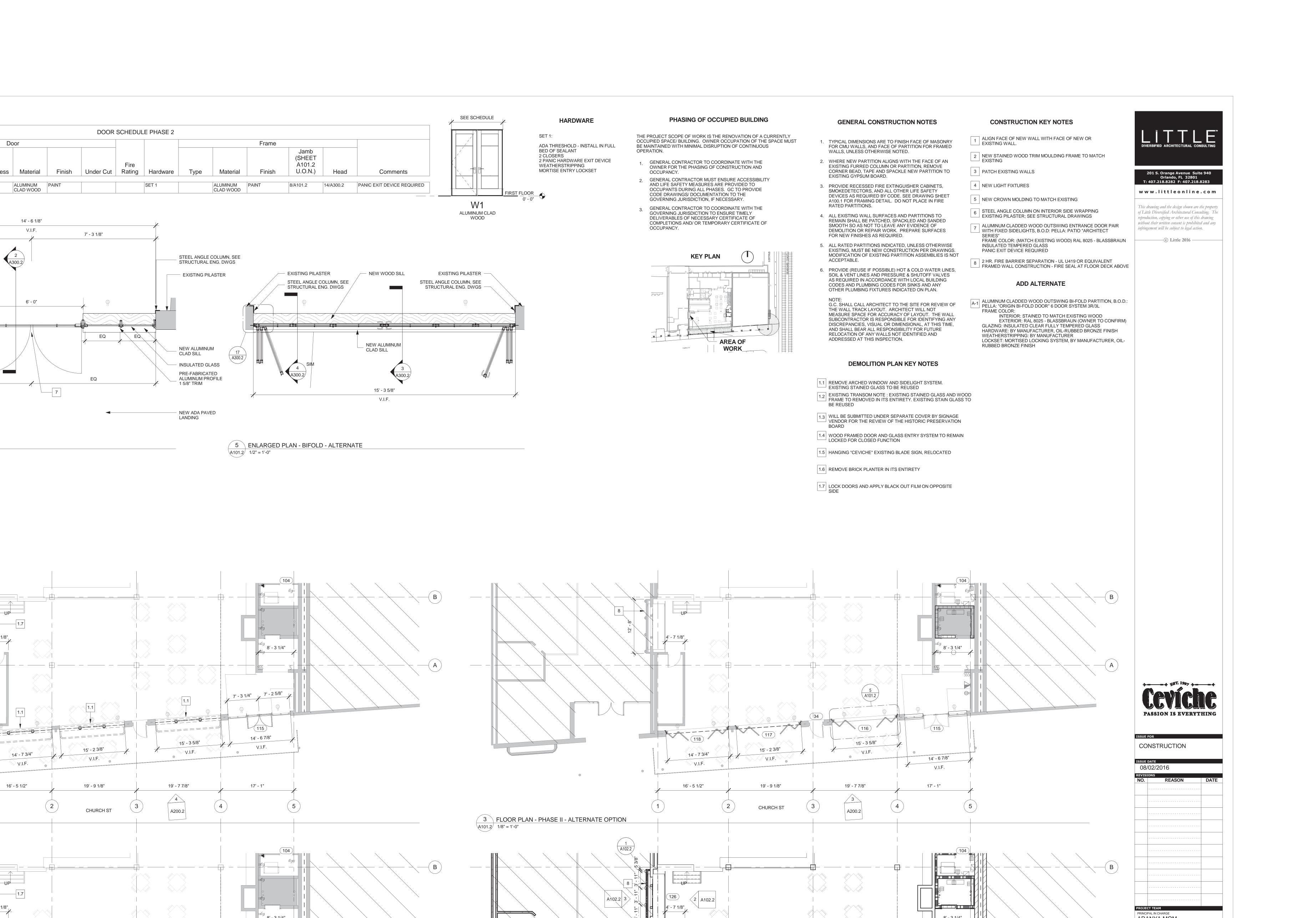
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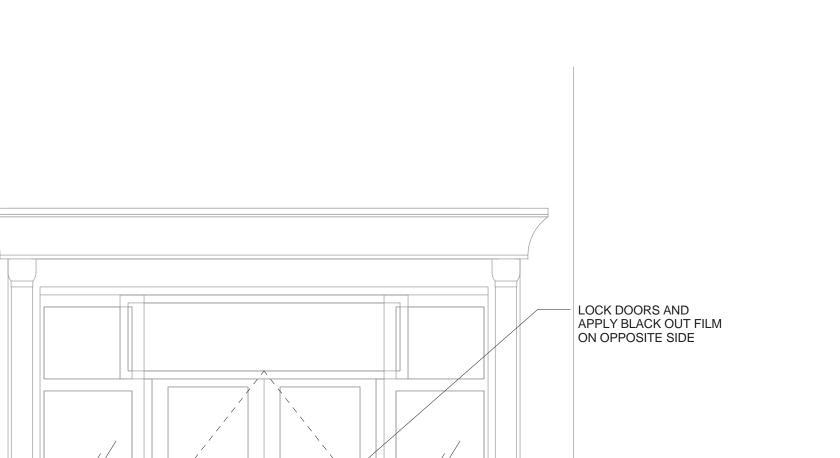
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CONSTRUCTION

ISSUE DATE 08/02/2016



2 HR WALL BEHIND TRIM PANEL WOOD TRIM NEW WOOD CARPENTRY COLUMNS REPURPOSED FROM EXTERIOR



GENERAL CONSTRUCTION NOTES

- TYPICAL DIMENSIONS ARE TO FINISH FACE OF MASONRY FOR CMU WALLS, AND FACE OF PARTITION FOR FRAMED WALLS, UNLESS OTHERWISE NOTED.
- 2. WHERE NEW PARTITION ALIGNS WITH THE FACE OF AN EXISTING FURRED COLUMN OR PARTITION, REMOVE CORNER BEAD, TAPE AND SPACKLE NEW PARTITION TO EXISTING GYPSUM BOARD.
- 3. PROVIDE RECESSED FIRE EXTINGUISHER CABINETS, SMOKEDETECTORS, AND ALL OTHER LIFE SAFETY DEVICES AS REQUIRED BY CODE. SEE DRAWING SHEET A100.1 FOR FRAMING DETAIL. DO NOT PLACE IN FIRE RATED PARTITIONS.
- 4. ALL EXISTING WALL SURFACES AND PARTITIONS TO REMAIN SHALL BE PATCHED, SPACKLED AND SANDED SMOOTH SO AS NOT TO LEAVE ANY EVIDENCE OF DEMOLITION OR REPAIR WORK. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED.
- 5. ALL RATED PARTITIONS INDICATED, UNLESS OTHERWISE EXISTING, MUST BE NEW CONSTRUCTION PER DRAWINGS. MODIFICATION OF EXISTING PARTITION ASSEMBLIES IS NOT ACCEPTABLE.
- 6. PROVIDE (REUSE IF POSSIBLE) HOT & COLD WATER LINES, SOIL & VENT LINES AND PRESSURE & SHUTOFF VALVES AS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODES AND PLUMBING CODES FOR SINKS AND ANY OTHER PLUMBING FIXTURES INDICATED ON PLAN.
- NOTE:
 G.C. SHALL CALL ARCHITECT TO THE SITE FOR REVIEW OF THE WALL TRACK LAYOUT. ARCHITECT WILL NOT MEASURE SPACE FOR ACCURACY OF LAYOUT. THE WALL SUBCONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ANY DISCREPANCIES, VISUAL OR DIMENSIONAL, AT THIS TIME, AND SHALL BEAR ALL RESPONSIBILITY FOR FUTURE RELOCATION OF ANY WALLS NOT IDENTIFIED AND ADDRESSED AT THIS INSPECTION.

DEMOLITION PLAN KEY NOTES

- 1.1 REMOVE ARCHED WINDOW AND SIDELIGHT SYSTEM. EXISTING STAINED GLASS TO BE REUSED
- EXISTING STAINED GLASS TO BE REUSED

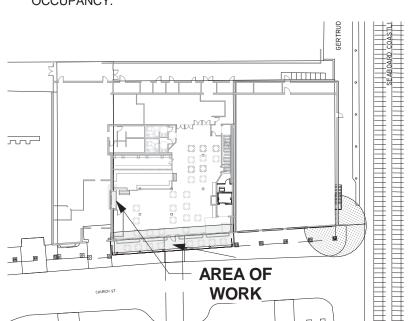
 1.2 EXISTING TRANSOM NOTE: EXISTING STAINED GLASS AND WOOD FRAME TO REMOVED IN ITS ENTIRETY. EXISTING STAIN GLASS TO BE REUSED
- 1.3 WILL BE SUBMITTED UNDER SEPARATE COVER BY SIGNAGE VENDOR FOR THE REVIEW OF THE HISTORIC PRESERVATION BOARD
- 1.4 WOOD FRAMED DOOR AND GLASS ENTRY SYSTEM TO REMAIN LOCKED FOR CLOSED FUNCTION
- 1.5 HANGING "CEVICHE" EXISTING BLADE SIGN, RELOCATED
- 1.6 REMOVE BRICK PLANTER IN ITS ENTIRETY
- 1.7 LOCK DOORS AND APPLY BLACK OUT FILM ON OPPOSITE SIDE

CONSTRUCTION KEY NOTES

- 1 ALIGN FACE OF NEW WALL WITH FACE OF NEW OR EXISTING WALL.
- 2 NEW STAINED WOOD TRIM MOULDING FRAME TO MATCH EXISTING
- 3 PATCH EXISTING WALLS
- 4 NEW LIGHT FIXTURES
- 5 NEW CROWN MOLDING TO MATCH EXISTING
- 6 STEEL ANGLE COLUMN ON INTERIOR SIDE WRAPPING EXISTING PILASTER; SEE STRUCTURAL DRAWINGS
- ALUMINUM CLADDED WOOD OUTSWING ENTRANCE DOOR PAIR WITH FIXED SIDELIGHTS, B.O.D: PELLA: PATIO "ARCHITECT SERIES"
 FRAME COLOR: (MATCH EXISTING WOOD) RAL 8025 BLASSBRAUN INSULATED TEMPERED GLASS
 PANIC EXIT DEVICE REQUIRED
- 8 2 HR. FIRE BARRIER SEPARATION UL U419 OR EQUIVALENT FRAMED WALL CONSTRUCTION FIRE SEAL AT FLOOR DECK ABOVE

ADD ALTERNATE

- A-1 ALUMINUM CLADDED WOOD OUTSWING BI-FOLD PARTITION, B.O.D.: PELLA: "ORIGIN BI-FOLD DOOR" 6 DOOR SYSTEM 3R/3L FRAME COLOR:
- INTERIOR: STAINED TO MATCH EXISTING WOOD
 EXTERIOR: RAL 8025 BLASSBRAUN (OWNER TO CONFIRM)
 GLAZING: INSULATED CLEAR FULLY TEMPERED GLASS,
 HARDWARE: BY MANUFACTURER, OIL-RUBBED BRONZE FINISH
 WEATHERSTRIPPING: BY MANUFACTURER
 LOCKSET: MORTISED LOCKING SYSTEM, BY MANUFACTURER, OILTHE IRUBBED BRONZE FINISHRK IS THE RENOVATION OF A CURRENTLY
 OCCUPIED SPACE/ BUILDING. OWNER OCCUPATION OF THE SPACE MUST
 BE MAINTAINED WITH MINIMAL DISRUPTION OF CONTINUOUS
 OPERATION.
- GENERAL CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE PHASING OF CONSTRUCTION AND OCCUPANCY.
- 2. GENERAL CONTRACTOR MUST ENSURE ACCESSIBILITY AND LIFE SAFETY MEASURES ARE PROVIDED TO OCCUPANTS DURING ALL PHASES. GC TO PROVIDE CODE DRAWINGS/ DOCUMENTATION TO THE GOVERNING JURISDICTION, IF NECESSARY.
- 3. GENERAL CONTRACTOR TO COORDINATE WITH THE GOVERNING JURISDICTION TO ENSURE TIMELY DELIVERABLES OF NECESSARY CERTIFICATE OF COMPLETIONS AND/ OR TEMPORARY CERTIFICATE OF OCCUPANCY.





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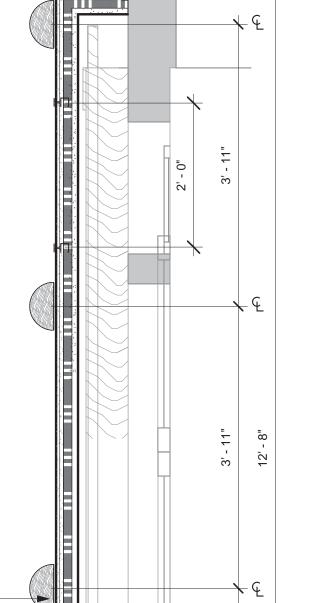
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A102.2 3

HALVED EXTERIOR

WOOD COLUMNS

REUSED IN THIS LOCATION -

NEW WOOD CARPENTRY



CONSTRUCTION

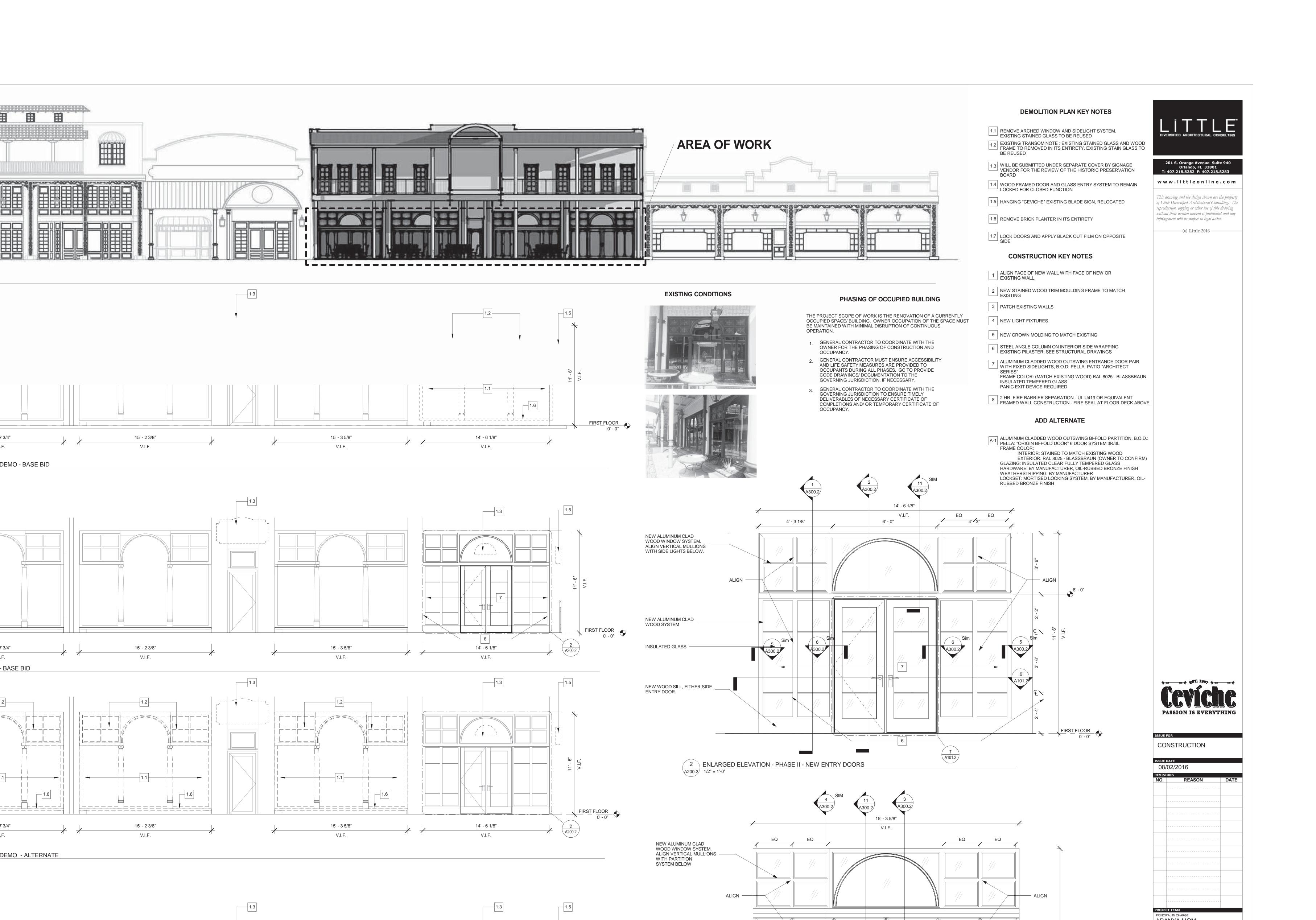
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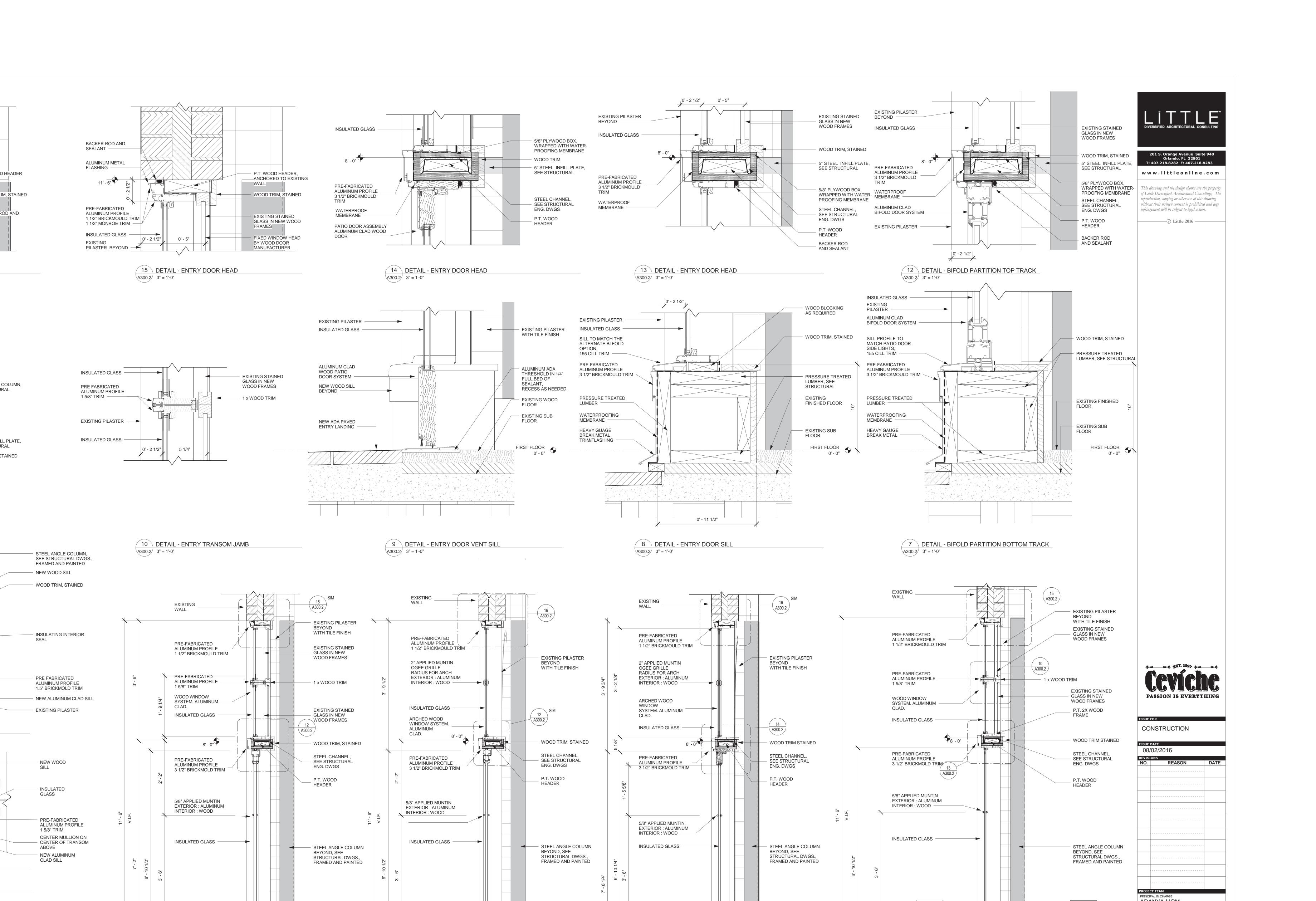
08/02/2016

REVISIONS

NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE





SYMBOL DESCRIPTION LED OR FLUORESCENT STRIP FIXTURE LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE LOWER CASE LETTER INDICATES CONTROLLING SWITCH ZX-X — CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER LED OR FLUORESCENT FIXTURE RECESSED, PENDANT OR SURFACE EVICE DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) LED OR FLUORESCENT FIXTURE, WALL MOUNTED LED, FLUORESCENT, HID, RECESSED, PENDANT OR SURFACE CEILING LED, FLUORESCENT, HID, WALL MOUNTED EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE EXIT LIGHT, LED, WALL MOUNTED FIRE ALARM/DETECTION SYSTEM DESCRIPTION F MANUAL PULL STATION CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION DUCT SMOKE DETECTOR BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED COMBINATION HORN/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING XXCD VOICE AND DATA RACEWAY SYSTEM DEVICE SYMBOL DESCRIPTION SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR VOICE/DATA OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED; PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING C = ABOVE COUNTER

LIGHTING

. SYMBOL LEGEND

DIVISION 26 - ELECTRICAL 26010 BASIC ELECTRICAL REQUIREMENTS A. ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH CODES, STANDARDS, AND PRACTICES LISTED HEREIN, AND THEIR RESPECTIVE DATES ARE FURNISHED AS THE MINIMUM LATEST REQUIREMENTS. STATE OF FLORIDA ORANGE COUNTY CITY OF ORLANDO 4. BUILDING CODE: FLORIDA BUILDING CODE (LATEST EDITION WITH 5. AMENDMENTS) 6. FLORIDA FIRE PREVENTION CODE (2012 EDITION) 7. LIFE SAFETY CODE (NFPA 101, 2003 EDITION) NATIONAL ELECTRICAL CODE (NFPA 70, 2011 EDITION)

B. SCOPE OF WORK: THE WORK PROVIDED UNDER THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS, INSPECTIONS AND REINSPECTION FEES, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, TEMPORARY PROTECTION, SUPERVISION, AND INCIDENTAL ITEMS ESSENTIAL FOR PROPER INSTALLATION AND OPERATION EVEN THOUGH NOT SPECIFICALLY MENTIONED OR INDICATED BUT WHICH ARE USUALLY PROVIDED OR ARE ESSENTIAL FOR PROPER INSTALLATION AND OPERATION OF ALL ELECTRICAL SYSTEMS AS INDICATED IN CONTRACT DOCUMENTS.

C. NOTICES: GIVE ALL NOTICES, FILE ALL PLANS, PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION. INCLUDE ALL FEES IN THE BID PRICE.

D. INTERPRETATION OF DRAWINGS:

ELECTRICAL SPECIFICATIONS

1. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF CONDUIT RUNS, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, ETC. THE LOCATIONS OF EQUIPMENT, APPLIANCES, FIXTURES, CONDUITS, OUTLETS, BOXES AND SIMILAR DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY, EXACT LOCATIONS SHOULD BE AS ACCEPTED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION. OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK, AND IN THE CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE ARCHITECT/ENGINEER AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.

- 2. DISCREPANCIES: NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT, OR UNTIL DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE ARCHITECT/ENGINEER SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT.
- 3. WIRING: COMPLY WITH NEC WITH FOR MAXIMUM 40% CONDUIT FILL REQUIREMENT, AND FOR DERATING CURRENT-CARRYING CONDUCTORS WHERE THERE ARE MORE THAN THREE IN A RACEWAY. UNLESS OTHERWISE ACCEPTED BY ENGINEER, CONDUIT SHALL NOT BE EXPOSED UNLESS SPECIFICALLY DIRECTED OR LOCATED IN OPEN STRUCTURE CEILINGS. PAINT CONDUIT & BOXES IN THOSE AREAS TO MATCH SURROUNDING PAINT FINISH. WHERE CIRCUITS ARE SHOWN AS "HOMERUNS", PROVIDE ALL NECESSARY FITTINGS AND BOXES FOR A COMPLETE RACEWAY INSTALLATION.

E. INVESTIGATION OF SITE:

- . GENERAL: BEFORE COMMENCING THE WORK, VERIFY EXISTING CONDITIONS AT THE PREMISES INCLUDING, BUT NOT LIMITED TO, EXISTING STRUCTURAL FRAMING, LOCATION AND ALL DIMENSIONS; EXISTING OPENINGS AND CHARACTERISTICS; EXISTING WALL AND PARTITION LOCATIONS, CHARACTERISTICS AND RELATIONSHIP TO EACH OTHER; EXISTING MECHANICAL AND ELECTRICAL WORK, EQUIPMENT TYPE, AND EXAMINE ALL ADJOINING WORK ON WHICH THIS WORK IS ANY WAY DEPENDENT FOR ITS PERFECT EFFICIENCY ACCORDING TO THE INTENT OF THE CONTRACT DOCUMENTS. INFORMATION INDICATED ON THE CONTRACT DOCUMENTS IS TAKEN FROM EXISTING RECORD DOCUMENTATION AND EXACT LOCATIONS OF ELECTRICAL CONNECTIONS TO BE INTERFACED WITH NEW CONNECTIONS MUST BE FIELD LOCATED BY THE CONTRACTOR.
- POWER OUTAGE: SPECIAL ATTENTION IS CALLED TO THE FACT THAT WORK INVOLVED IS IN CONNECTION WITH THE EXISTING BUILDING WHICH IS TO REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. REQUEST WRITTEN PERMISSION AND RECEIVE WRITTEN ACCEPTANCE FROM THE OWNER NO LATER THAN 72 HOURS IN ADVANCE OF ALL POWER AND COMMUNICATION SHUT DOWNS. PERFORM WORK REQUIRED AT OTHER THAN STANDARD WORKING HOURS WHERE OUTAGES CANNOT BE ACCEPTED BY OWNER DURING REGULAR OPERATING HOURS. PROTECT EXISTING BUILDING AND EQUIPMENT DURING CONSTRUCTION.
- 3. SPECIAL CONSIDERATIONS: SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES, OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MIGHT REQUIRED TO BE REMOVED. OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.
- 4. DEMOLITION GENERAL: DURING THE EXECUTION OF WORK, ALL REQUIRED RELOCATION, REROUTING, ETC. OF EXISTING EQUIPMENT AND SYSTEMS IN THE EXISTING BUILDING AREAS WHERE THE WORK IS REQUIRED, SHALL BE PERFORMED BY THE CONTRACTOR, AS INDICATED ON THE DRAWINGS, PR AS REQUIRED BY JOB CONDITIONS AND AS DETERMINED BY THE ARCHITECT IN THE FIELD, TO FACILITATE THE INSTALLATION OF THE NEW SYSTEMS. THE OWNER SHALL REQUIRE CONTINUOUS OPERATION OF THE EXISTING SYSTEMS, WHILE DEMOLITION, RELOCATION WORK OR NEW TIE-INS ARE
- 5. OWNER'S SALVAGE: OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS. F. EXISTING CONDITIONS:
- 1. SUPPORT: ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS
- 2. INSTALLATION: ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REWORKING OR REQUIRED RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.
- 3. VIOLATIONS: WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE ARCHITECT FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.
- 4. PATCHING: ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.
- G. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE EITHER U.L. LABELED, U.L. LISTED OR BEAR THE SEAL OF A NATIONALLY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- H. SHOP DRAWINGS ARE REQUIRED FOR LIGHTING FIXTURES; ELECTRICAL DISTRIBUTION EQUIPMENT, AND WIRING DEVICES.
- ALL EQUIPMENT SHALL BE FIRMLY MOUNTED USING APPROVED HANGERS ATTACHED TO THE STRUCTURAL PORTIONS OF THE BUILDING. SUPPORTING WITH TIE WIRE IS PROHIBITED. LIGHT FIXTURES RECESSED IN CEILINGS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF THE CEILING SYSTEM.
- SYSTEMS GUARANTEE: PROVIDE A ONE-YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER FOR ANY DEFECTIVE WORKMANSHIP OR MATERIAL WHICH HAS BEEN PROVIDED UNDER THIS CONTRACT OR AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. THE GUARANTEE SHALL INCLUDE ALL LAMPS FOR NINETY DAYS AFTER DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. EXPLAIN THE PROVISIONS OF GUARANTEE TO THE OWNER AT THE "DEMONSTRATION OF COMPLETED SYSTEM".

26030 ELECTRICAL IDENTIFICATION

A. LANGUAGE: ALL IDENTIFICATION SHALL BE IN ENGLISH.

B. CONDUITS SYSTEM MARKERS SHALL BE ENGRAVED PLASTIC, LAMINATE NAMEPLATES AND SHALL BE ADHESIVE OR PRE-TENSIONED SNAP ON COLOR CODED, SYSTEM MARKING MATERIALS.

C. IDENTIFICATION: IDENTIFY ALL RACEWAYS PROVIDED OR UTILIZED AS PART OF THIS PROJECT AS FOLLOWS:

1. APPLY BANDS 10 FEET ON CENTER ALONG THE RACEWAY SYSTEM AND AT EACH SIDE OF WALLS OR FLOORS, AND AT BRANCHES FORM MAINS.

2. IDENTIFY THE FOLLOWING SERVICES:

SERVICE: a. LOW VOLTAGE

b. HIGH VOLTAGE c. VOICE/DATA

d. TELEVISION

B. CABLE AND CONDUCTOR IDENTIFICATION WILL BE PER NFPA 70.

C. OPERATIONAL SIGNAGE SHALL BE PROVIDED WHERE REQUIRED 120/208 VOLTAGE 277/480 VOLTAGE

26110 BASIC MATERIALS AND METHODS A. RACEWAYS AND FITTINGS:

- ALL WIRING SHALL BE INSTALLED IN APPROPRIATE RACEWAYS SYSTEMS OF RIGID GALVANIZED CONDUIT, ELECTRIC METALLIC TUBING, FLEXIBLE STEEL CONDUIT AND LIQUID-TIGHT FLEXIBLE CONDUIT AS CONDITIONS AND CODES DICTATE. EMT SHALL BE JOINED WITH STEEL SET-SCREW TYPE FITTINGS.
- 2. ALL CONDUIT SHALL HAVE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT WITHIN THE CONDUIT.
- 3. MINIMUM 1" EMT CONDUIT SHALL BE STUBBED UP INTO NEAREST ACCESSIBLE CEILING FOR ALL NEW SYSTEMS WALL BOXES. PROVIDE NYLON PULLSTRING AND SMOOTH BUSHING.
- 4. PROVIDE NYLON PULLSTRING WITH SMOOTH BUSHING FOR ALL EMPTY CONDUITS. ALL EXPOSED CABLE SHALL BE IN CONDUIT.

26120 WIRES AND CABLES

A. ALL BRANCH CIRCUITS SHALL BE COPPER WITH THHN OR THWN INSULATION. MINIMUM SIZE #12 AWG.

B. FEEDERS AND SUBFEEDERS SIZE #4 AND LARGER SHALL BE XHHW COPPER.

VOICE/DATA TELEVISION

C. COLOR CODING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE. PHASE CONDUCTORS OF EACH VOLTAGE SYSTEM MUST BE OF A DIFFERENT COLOR. NEUTRALS SHALL BE WHITE FOR 120/208 AND GRAY FOR 277/480. EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN INSULATED.

26130 OUTLET BOXES

- A. OUTLET BOXES: OUTLET BOXES SHALL BE ONE PIECE OR PROJECTION WELDED, GALVANIZED STAMPED STEEL FOR GANG SIZES REQUIRED. SECTIONAL BOXES ARE NOT ACCEPTABLE. BOXES SHALL BE 4" SQUARE AND 1-1/2" DEEP GENERALLY. LARGER BOXES SHALL BE USED AS REQUIRED BY CODE.
- B. COORDINATE APPROPRIATE BOX FOR ALL LOW VOLTAGE SYSTEMS WITH TENANT'S VENDOR PRIOR TO ROUGHING IN (VOICE/DATA, A/V, SECURITY, ETC.)

26140 WIRING DEVICES

A. ALL RECEPTACLES SHALL BE 20 AMP, 125 VOLT GROUNDING TYPE, SPECIFICATION GRADE AND MOUNTED AT 18" AFF.

CMITCHES SHALL BE 20 AMD 125V SILENT TYPE SPECIFICATION CRAPE AND MOUNTED AT 40" AFE

	ELECTRICAL DRAWING INDEX	
SHEET	DESCRIPTION	ISSUED
E-001.2	ELECTRICAL SYMBOL LEGEND, SPECIFICATIONS, AND SHEET INDEX	Yes
E-002.2	GENERAL NOTES	Yes
E-101.2	CEILING PLAN - LEVEL 1 - LIGHTING PHASE 2	Yes
E-201.2	FLOOR PLAN - LEVEL 1 - POWER PHASE 2	Yes
E-301.2	ELECTRICAL DETAILS	Yes
E-401.2	ELECTRICAL SCHEDULES	Yes



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Э.	REASON	DATE

ELECTRICAL GENERAL NOTES

ELECTRICAL DEVICES, OUTLET BOXES, JUNCTION BOXES:

A. ALL ELECTRICAL BOXES SHALL BE METALLIC.

C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.

OF THE WALL RATING SHALL BE MAINTAINED.

SQUARE INCHES PER 100 SQUARE FEET.

DEVICE, UNLESS OTHERWISE NOTED.

LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF

WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED

AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE

D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY

E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY

G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL

I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH

IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN

WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILINGS, OR

FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MOUNTED, UNLESS

SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS A/E GRANTS WRITTEN PERMISSION.

FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN

LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS

ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE

INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFIED NOTED OTHERWISE.

THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC

NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS

ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT CONDUIT

MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED, NOTIFY

SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED WALLS.

ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO ROUTING.

PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALL, CEILINGS AND ROOFS WHERE REQUIRED. COORDIANTE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL

THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.

COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC.

13. SET SCREW TYPE FITTINGS ARE ALLOWED FOR EMT CONDUIT.

120V (BASED ON 1500W LOAD)

71 FT - 115 FT

116 FT - 180 FT

CIRCUIT LENGTH

0 FT - 140 FT

141 FT - 220 FT

221 FT - 350 FT

CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL.

STRANDED FOR #8 AWG AND LARGER.

DURING THE PROJECT CONSTRUCTION PHASE.

THE BUILDING LINES.

<u>LIGHTING</u>:

INSTALLED.

277V (BASED ON 4155W LOAD)

CIRCUIT LENGTH

MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.

METAL TAG INDICATING CONDUIT DESIGNATION.

FOR BRANCH CIRCUITS:

DRAWINGS, FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS

PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH

NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE

IT IS THE INTENT THAT ALL RACEWAYS BE CONCEALED IN WALLS, ABOVE CEILINGS, IN SLAB, OR

BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN

PERMISSION. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM

STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE

PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A

PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED

ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE

VOLT CIRCUITS. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING

LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3%

VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES

MIN. CONDUCTOR SIZE INCREASE FOR VOLTAGE DROP

MIN. CONDUCTOR SIZE

#12 AWG

#10 AWG

INCREASE FOR VOLTAGE DROP

#12 AWG. EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120/208 VOLT CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 277/480

SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR LESS.

181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL.

3. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATING LISTED IN NEC.

ALL CONDUCTORS SHALL BE COPPER, THHN/THWN , AND SOLID FOR #10 AWG AND SMALLER, AND

METAL CLAD (MC) CABLE IS ACCEPTABLE FOR USE IN LIEU OF CONDUIT AND WIRING FOR BRANCH

GYPBOARD CEILINGS, IN METAL STUD WALLS). MC CABLE IS TO BE TRANSITIONED TO CONDUIT &

CIRCUITS FOR LIGHTING AND RECEPTACLES ONLY, AND ONLY WHERE CONCEALED (ABOVE LAY-IN OR

WIRING FOR HOMERUNS, AND IS TO BE NEATLY INSTALLED, RUN PARALLEL AND PERPENDICULAR TO

MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING

ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED.

EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING CONTROLS. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE REQUIRED

REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS

ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L),

4. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH

DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN

CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES

HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH

BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.

F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100

BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.

ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL

(CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY

EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS

THE NEC, WHETHER INDICATED ON THE CONTRACT DOCUMENTS OR NOT. ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED.

GRANTS WRITTEN PERMISSION.

ARE TO BE SEALED WATERTIGHT.

H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.

FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:

B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.

FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).

HALL BE CONSIDERED SUPPLEMENTARY, ONE TO DOCUMENTS". ALL WORKMANSHIP, METHODS AND NOT DESCRIBED OR IMPLIED BY THE OTHER S IF IT HAD APPEARED IN BOTH SECTIONS. THE IS NOT LIMITED SOLELY TO THE ELECTRICAL BUT ENCOMPASSES THE DRAWINGS AND

L TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE AL DATA STATING EQUIPMENT RATING AND SELECTED IG MAINTENANCE. ALSO PROVIDE TWO OPERATIONS QUIPMENT REQUIRING MAINTENANCE. REQUIRED PERATION FOR EQUIPMENT SHALL BE CLEARLY DRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

G, DIRECTIONAL BORING, CORE DRILLING, INISHES, ETC. THAT IS REQUIRED IN ORDER TO

ORARY ELECTRICAL SERVICE AS REQUIRED FOR USE EMPORARY POWER AT THE COMPLETION OF THE MITS FOR TEMPORARY POWER. ENGINEER OF RECORD ON FROM THE CONTRACTOR WHERE SIGNED & ACTOR TO THE ENGINEER OF RECORD IF REQUIRED

RECYLING OF ALL WASTE MATERIALS GENERATED BY RIDA STATUTES REGARDING MERCURY-CONTAINING SUIDELINES AT THE TIME OF DISPOSAL. PROVIDE

PLIANCE WITH SECTION C405.7.3 OF THE ENERGY QUIRING 2% OR LESS VOLTAGE DROP FOR RDANCE WITH THE 2011 NATIONAL ELECTRICAL

ANEOUS EQUIPMENT REQUIRING ELECTRICAL

S. KITCHEN APPLIANCES. LAUNDRY APPLIANCES.

OR SUPPLEMENTAL ELECTRICAL INFORMATION.

TORS, ETC.) WITH APPROVED SHOP DRAWINGS, STRUCTIONS, AND EQUIPMENT NAMEPLATE NECESSARY ELECTRICAL REQUIRED. CTRICAL REQUIREMENTS FOR ALL MECHANICAL O SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL NDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ERS, CONTROL TRANSFORMERS, FIRE ALARM PERATIONAL SYSTEM, COORDINATE WITH

MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, Y THE CONTRACTOR. PARTICIPATE IN THE

D PROVIDE ALL NECESSARY INFORMATION

THE CONTRACT DOCUMENTS SHALL BE NS/TRADES PRIOR TO COMMENCEMENT OF F OTHER DIVISIONS/TRADES. ICTION, PROVIDE COORDINATION FOR EXACT FRICAL COMPONENTS INSTALLED WITHIN TILT-UP

RS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC E COORDINATED WITH CONTRACTOR'S ENSURE PROPER NEC CLEARANCES AND

OF THE TILT-UP WALLS, PRIOR TO MANUFACTURE

UIPMENT DRAWINGS FOR RELATED EMENTS TO BE PERFORMED AS PART OF THE EEN ONE DRAWING AND ANOTHER, OR

ST STRINGENT REQUIREMENT SHALL GOVERN

IS. NOTIFY THE ARCHITECT/ENGINEER

FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR

BLE CODES OR OWNER'S DESIGN STANDARDS, SHALL GOVERN. NG AND/OR SITE AFFECTED BY THIS WORK PRIOR WITH EXISTING CONDITIONS AND DIFFICULTIES SION OF A BID PRICE SHALL BE CONSTRUED AS LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR ERED THAT COULD HAVE BEEN REASONABLY

REQUIREMENTS WITH ARCHITECT/ENGINEER AND CT MAY REQUIRE PHASING SEQUENCES AND SUCH SHALL BE INCLUDED IN THE BID PRICE. ND INCLUDE PREMIUM TIME AS MAY BE REQUIRED DITIONALLY, ENSURE THAT LONG LEAD ITEMS DO

FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR PRE-APPROVED IN WRITING BY THE OWNER AND

UTILITY COMPANIES AND PROVIDERS (ELECTRIC FOR PROVIDING TEMPORARY AND PERMANENT RICE. BID PRICE SHALL INCLUDE, BUT NOT BE PMENT, EQUIPMENT PADS, BACKBOARDS,

N A MANNER THAT ENSURES MINIMUM , TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT IS REQUIRED TO EFFECTIVELY PROTECT JRNITURE, ETC. FROM DAMAGE OR EXCESSIVE CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES JRE TO ADHERE TO THIS REQUIREMENT. RESTORE CONTRACTOR TO THE SATISFACTION OF THE . COSTS. REPORT OF ANY SUCH OCCURRENCE TO AND AWAIT WRITTEN DIRECTION PRIOR TO

DEVICES AND BOXES WITH WINDOWS, MIRRORS, ASS WALLS PRIOR TO INSTALLATION OF GS TO ASCERTAIN ANY CONFLICTS PRIOR TO ID. CONTRACTOR SHALL NOT BE ENTITLED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR

NELBOARDS, AND EXISTING PANELBOARDS LECT PROJECT AS-BUILT CONDITIONS FOR ALL RE EACH PANEL IS FED FROM. ADDITIONALLY. EACH THE ROOM NUMBER(S) FOR EACH LOAD SERVICE (I.E., E BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN AND OWNER PRIOR TO COMPLETION OF PANEL

ERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT

HE EXTERIOR COVER OF ALL JUNCTION BOXES, S)/ CIRCUIT NUMBER(S) CONTAINED WITHIN. RDS, NEC REQUIREMENTS, AND OWNER'S

E AN EQUIPMENT GROUND CONDUCTOR. METAL

DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND

ELECTRICAL DEMOLITION NOTES

DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN DASHED LINE TYPE ARE EXISTING TO BE DEMOLISHED; DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN LIGHT SOLID LINE TYPE ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

EXISTING EQUIPMENT, LIGHT FIXTURES, DEVICES SHOWN ARE BASED ON FIELD SURVEYS AND RECORD DRAWINGS PROVIDED BY THE OWNER, AND IS NOT NECESSARILY ALL INCLUSIVE IN EVERY AREA AS FAR AS EXISTING ELECTRICAL EQUIPMENT, LIGHIT FIXTURES AND DEVICES. EXISTING CIRCUITING SHOWN IS BASED ON RECORD DRAWINGS AND THE SURVEYED PANEL DIRECTORIES, WHERE THEY WERE AVAILABLE. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT, WHERE SHOWN ON THE PLAN DRAWINGS, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.

WHERE EXISTING DEVICES ARE INDICATED TO REMAIN OR RELOCATED, LOCATED WITHIN THE SCOPE OF THIS PROJECT AND EXISTING CIRCUITING INFORMATION IS UNAVAILABLE, CONTRACTOR IS TO PROVIDE CIRCUIT TRACING TO IDENTIFY PANEL AND CIRCUIT DEVICES ARE CONNECTED TO AND PROVIDE THAT INFORMATION TO A/E PRIOR TO ROUTING CONDUITS AND WIRING FOR NEW DEVICES AND EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT.

WHERE EXISTING DEVICES ARE TO REMAIN, CONTRACTOR MUST EXTEND EXISTING CIRCUITING WHERE NECESSARY TO MAINTAIN CONTINUITY OF CIRCUIT. COORDINATE WITH THE OWNER FOR DISPOSITION OF ELECTRICAL ITEMS TO BE DEMOLISHED. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS SUCH AS COVERPLATES. RECEPTACLES, LIGHT FIXTURES, PANELBOARDS, TRANSFORMERS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH THE OWNER PRIOR TO START OF DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.

COORDINATE EXACT AREAS, WALLS, CEILINGS, ETC. TO BE DEMOLISHED WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND MECHANICAL DEMOLITION PLANS. WHERE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT ARE INDICATED TO BE DEMOLISHED, REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL OR TO NEAREST JUNCTION BOX TO MAINTAIN CIRCUIT CONTINUITY OF DEVICES TO REMAIN AND EQUIPMENT TO REMAIN. WHERE PANELS ARE TO BE REMAIN, TURN BREAKER TO "OFF" POSITION AND LABEL THE CIRCUIT AS "SPARE" ON THE PANEL DIRECTORY.

ALL AREAS OUTSIDE THE SCOPE OF CONSTRUCTION ARE TO REMAIN ENERGIZED. COORDINATE PHASING WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO DEMOLITION WHICH MAY RESULT IN INTERRUPTION OF POWER.

REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF AREA REQUIRING DEMOLITION AND ADDITIONAL INFORMATION ON ELECTRICAL DEMOLITION WITHIN THAT AREA. DISCONNECT ELECTRICAL SERVICE TO ALL EQUIPMENT BEING REMOVED. DEMOLITION SHALL BE PHASED AS REQUIRED BY DIVISION

REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED OR RENOVATED AREA. CAP BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT. ELECTRICAL DEVICES CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC., AND NOT NOTED ON THE DEMOLITION DRAWINGS ARE TO BE REMOVED AS REQUIRED, UNLESS SHOWN AS EXISTING TO REMAIN.

CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E OR OWNER CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS. REPAIRS ARE TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED AND SHALL MATCH IMMEDIATE ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND

PROVIDE BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E., EXPOSED MATCH COLOR OF NEW ADJACENT DEVICE COVERPLATES. CEILINGS, BUILDING EXTERIOR WALL RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALLS AND FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.

COORDINATE SERVICE INTERRUPTION WITH CONSTRUCTION MANAGER, OWNER, LANDLORD, AND UTILITY WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL COMPANY, WHERE APPLICABLE, AND DO NOT INTERRUPT POWER WITHOUT WRITTEN PERMISSION. PROVIDE A MINIMUM OF ONE WEEK'S WRITTEN NOTIFICATION WHEN POWER IS DESIRED TO BE INTERRUPTED.

B. EXERCISE EXTREME CAUTION WHEN REMOVING/ RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE. INFORMATION INDICATED IN THE DEMOLITION PORTION OF THE CONTRACT DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD VERIFY ELECTRICAL CIRCUIT HOMERUNS TO ALL ELECTRICAL ITEMS SCHEDULED TO BE DEMOLISHED AND PERFORM THE WORK AS INTENDED AND DEPICTED ON

8. UPDATE ALL EXISTING ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES AS NECESSARY TO REFLECT FINAL AS-BUILT CONDITIONS AT THE END OF CONSTRUCTION.

19. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED. 20. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL

UTILITY COMPANY AND THE OWNER PRIOR TO COMMENCEMENT OF WORK. SCHEDULE ALL POWER INTERRUPTION WITH OWNER FOR EXACT DATE, TIME AND DURATION. PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO DISCONNECTING ANY POWER TO ANY PORTION OF THE BUILDING, AND MAKE ARRANGEMENTS TO MAINTAIN POWER TO ALL CRITICAL EQUIPMENT AS NEEDED AND REQUESTED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.

PROVIDE ANY NECESSARY REPROGRAMMING OF EXISTING BUILDING FIRE ALARM SYSTEMS TO DISABLE FIRE ALARM DEVICES THAT ARE BEING DISCONNECTED AND REMOVED, AND FOR ANY NEW DEVICES THAT ARE ADDED. AS PART OF BID PRICE.

3. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION WHETHER INDICATED ON THE PLANS OR NOT.

ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE DISRUPTION TO THESE OTHER SPACES. ENSURE THAT ALL CONDUITS, NEW OR EXISTING WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED IN ACCORDANCE WITH THE NEC. BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM

> REMOVE ALL ABANDONED WIRING AND CONDUIT THAT IS WITHIN THE PROJECT AREA PRIOR TO THE END OF CONSTRUCTION.

APPLICABLE CODES

ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN:

 A. LIFE SAFETY CODE, NFPA 101. UNDERWRITERS LABORATORIES, INC. (UL) PUBLICATIONS. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). NATIONAL ELECTRICAL CODE (NEC), 2011 EDITION. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA). REQUIREMENTS OF LOCAL POWER COMPANY. I. THE AMERICANS WITH DISABILITIES ACT (ADA). OWNER'S PUBLISHED DESIGN STANDARDS.

THE FLORIDA ACCESSIBILITY CODE. THE FLORIDA ENERGY CONSERVATION CODE. M. FLORIDA FIRE PREVENTION CODE, 2014 EDITION.

N. FLORIDA BUILDING CODE, 2014 EDITION. INTERNATIONAL BUILDING CODE.

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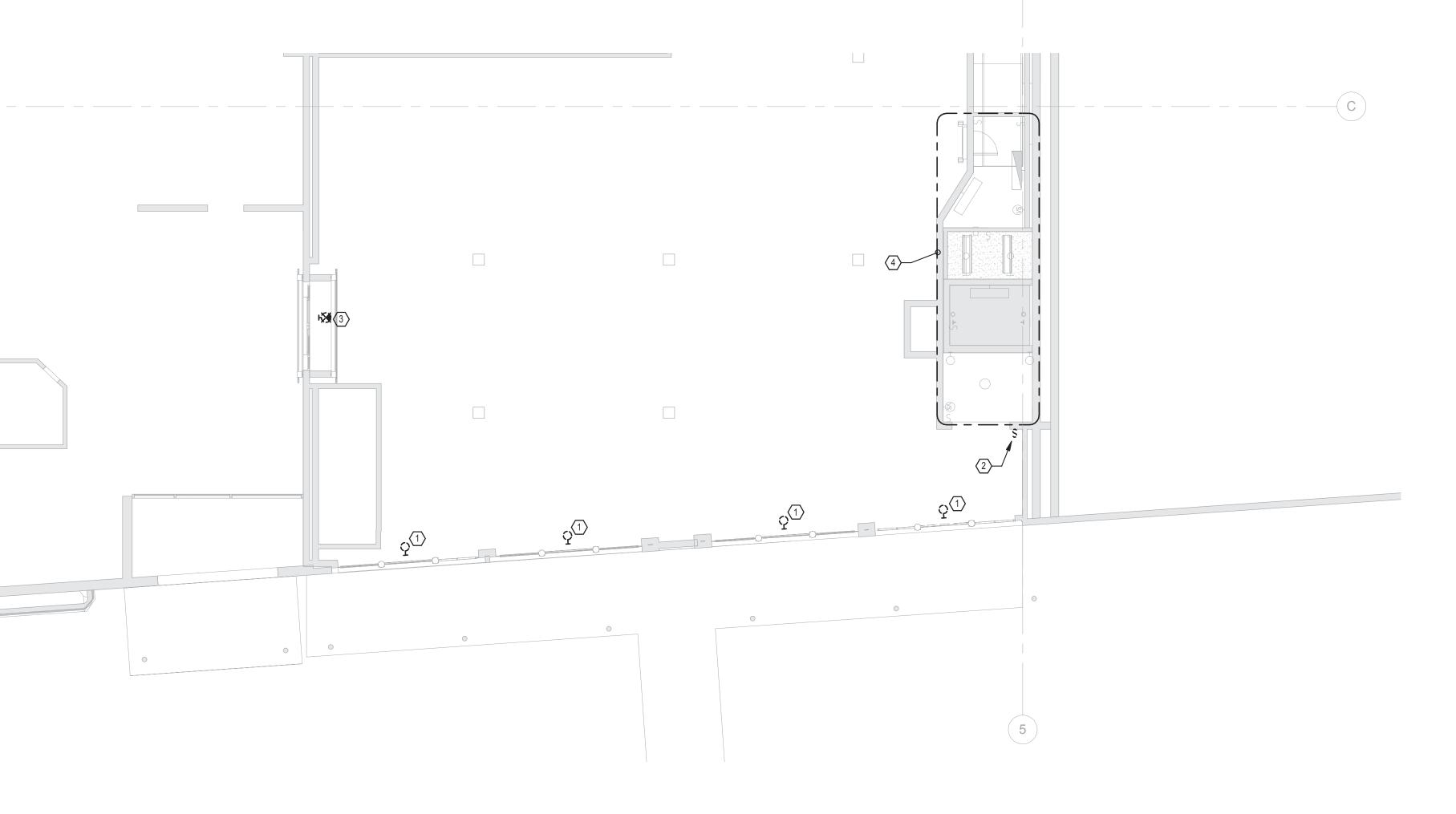


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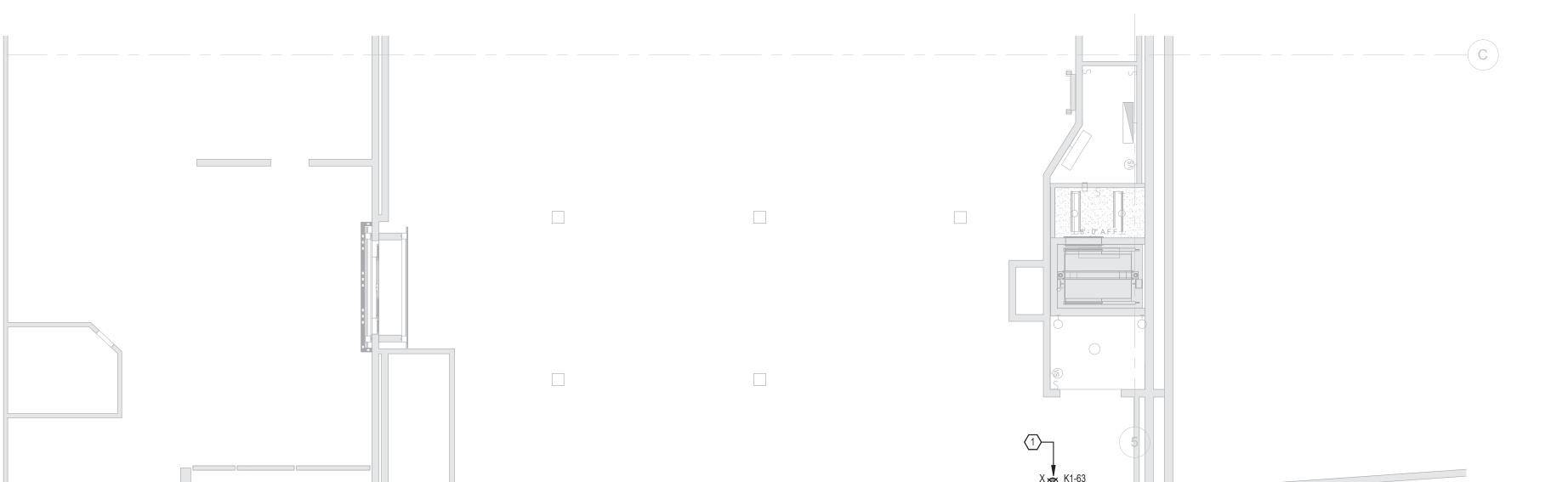
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NO.	REASON	DATE







GENERAL NOTES

- 1. REFER TO SYMBOL LEGEND, ABBREVIATION AND SHEET INDEX ON SHEET E-001.
- 2. REFER TO GENERAL NOTES ON SHEET E-002.
- 3. REFER TO SPECIFICATIONS.
- 4. COORDINATE ALL DEMOLITION WITH ARCHITECTURAL DRAWINGS.
- 5. ALL EXISTING EQUIPMENT IS NOT SHOWN.

PLAN NOTES:

- REMOVE EXISTING WINDOW ACCENT LIGHTING FIXTURES, AND ALL ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO NEXT UPSTREAM JUNCTION OUTSIDE AREA OF SCOPE.
- 2 REMOVE EXISTING LIGHTING CONTROL SWITCH.
- REMOVE EXISTING EXIT SIGNS, AND ALL ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO NEXT UPSTREAM JUNCTION OUTSIDE AREA OF SCOPE.
- 4 EXISTING LIGHTING TO REMAIN.



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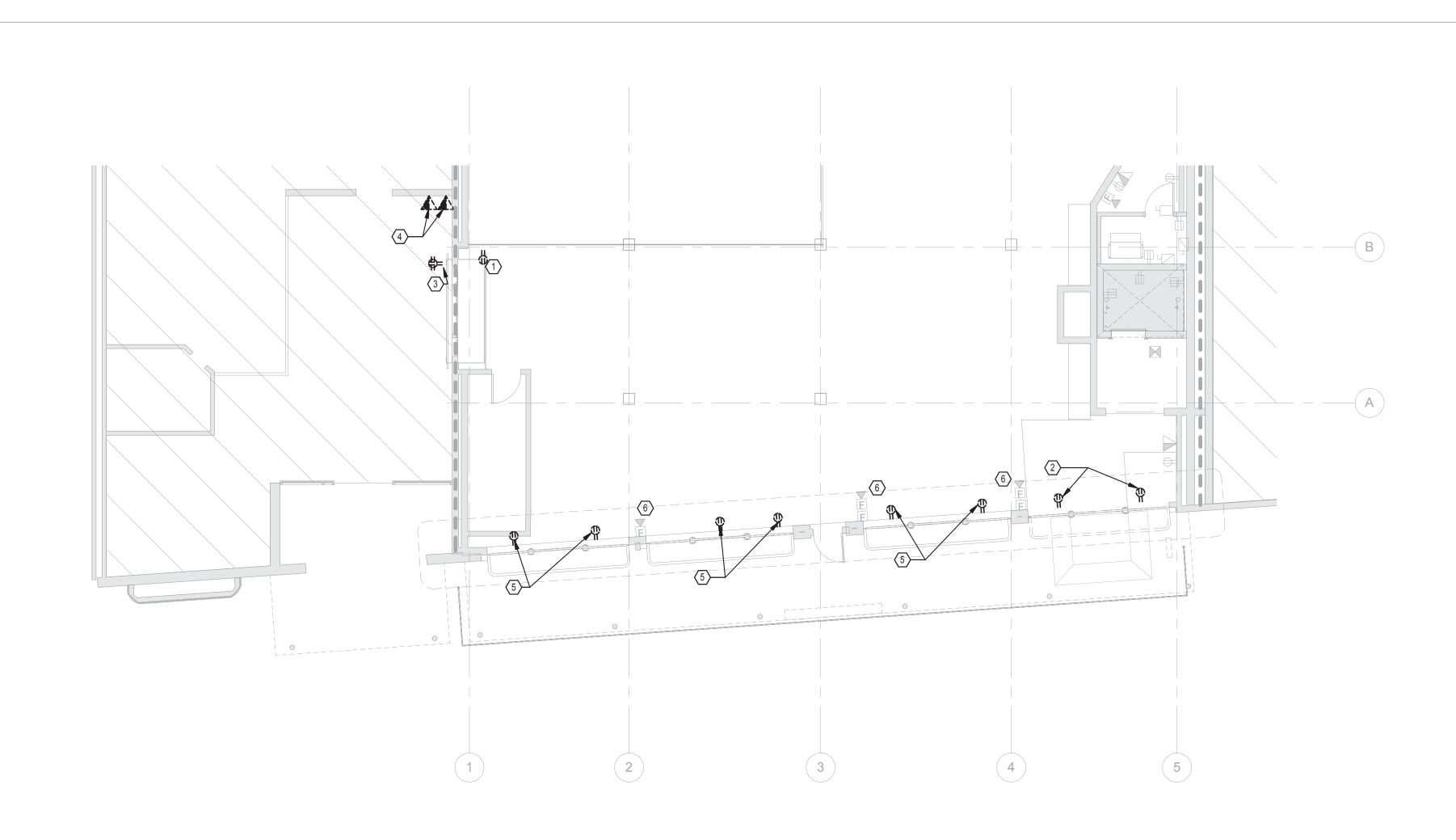
PLAN NOTES:

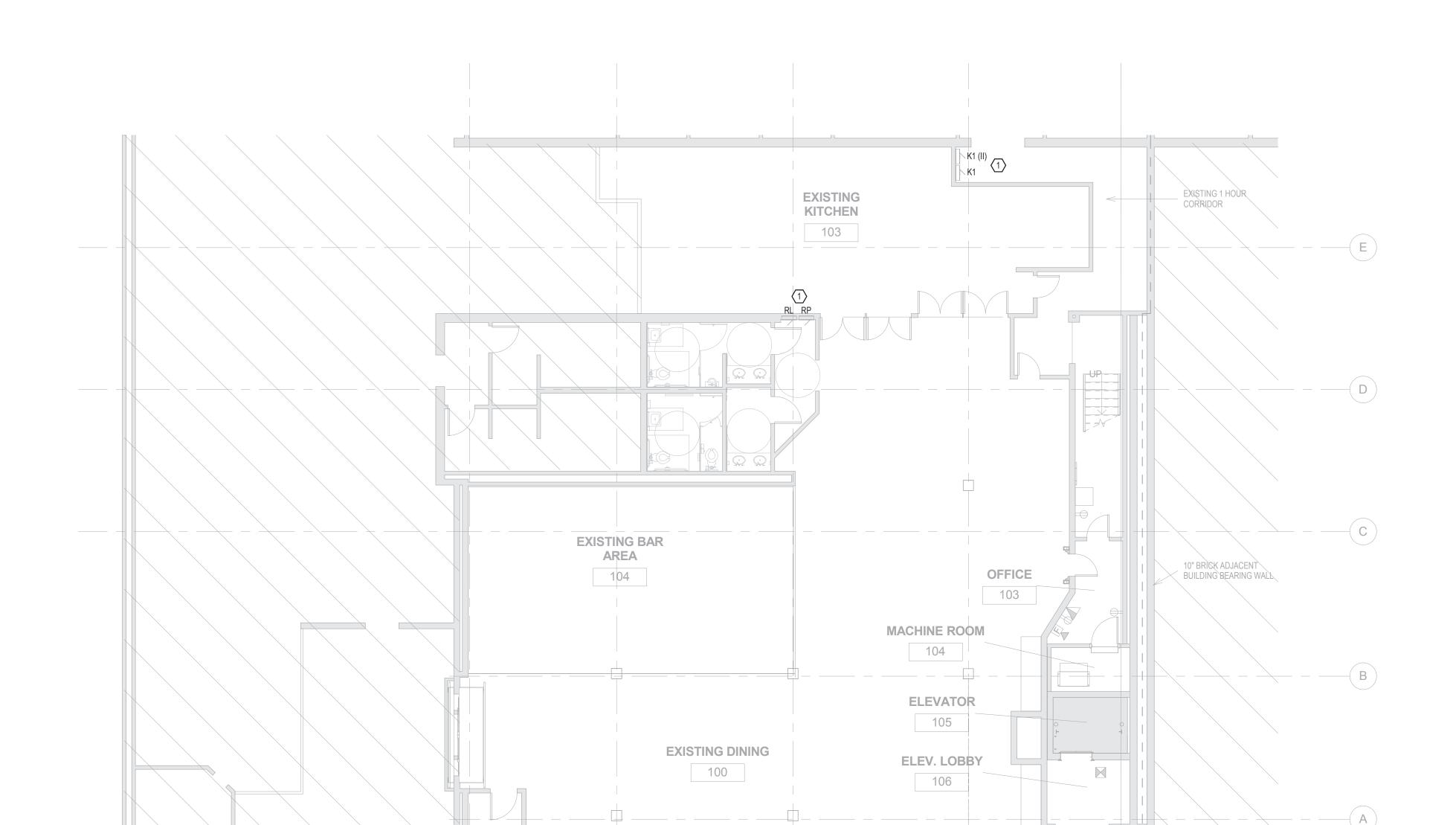
MATCH MOUNTING HEIGHT OF EXISTING EXIT SIGNS LOCATED IN SPACE. CONNECT TO CIRCUIT AS SHOWN. CIRCUIT AHEAD ON ANY SWITCHING.

CONSTRUCTION

08/02/2016

NO. REAGON DA





GENERAL NOTES

- 1. REFER TO SYMBOL LEGEND, ABBREVIATION AND SHEET INDEX ON SHEET E-001.
- 2. REFER TO GENERAL NOTES ON SHEET E-002.
- 3. REFER TO SPECIFICATIONS.
- 4. COORDINATE ALL DEMOLITION WITH ARCHITECTURAL DRAWINGS.
- 5. ALL EXISTING EQUIPMENT IS NOT SHOWN.



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255 S. Orange Avenue Orlando, FL 32801 Phone: 407-841-9050 FAX: 407-425-7367 Www.tlc-engineers.com © Copyright 2016 TLC Engineering for Architecture, Inc. COA 15 TLC NO: 116019

PLAN NOTES:

- 1 EXISTING TO REMAIN.
- REMOVE RECEPTACLES, BOXES, CONDUIT AND WIRE BACK TO NEXT UPSTREAM JUNCTION BOX. MARK BREAKERS AS SPARE. PROVIDE ALL ELECTRICAL AS REQUIRED TO MAINTAIN CONTINUITY TO DOWNSTREAM RECEPTACLES.
- REMOVE RECEPTACLES, BOXES, CONDUIT AND WIRE BACK TO NEXT UPSTREAM JUNCTION BOX. REMOVE EXISTING TELECOMM/DATA DISTRIBUTION OUTLETS, BOXES AND WIRE BACK TO
- REMOVE RECEPTACLES, BOXES, CONDUIT AND WIRE BACK BACK TO SOURCE. MARK BREAKER AS SPARE. (PHASE 2 ALTERNATE) CONTRACTOR SHALL REMOVE FIRE ALARMS WIRING TO FACILITATE ELEVATOR MODIFICATIONS. FIRE ALARM SHALL BE REWORKED TO MAINTAIN EXISTING FIRE ALARM DEVICES FED WITH THIS WIRING. (PHASE 2 ALTERNATE)

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PLAN NOTES:

- ROUTE ELECTRICAL CONDUIT CONCEALED WHERE POSSIBLE. COORDINATE EXACT ROUTING OF ANY CONDUIT WITH OWNER PRIOR TO ROUGH-IN, AND PAINT CONDUIT TO MATCH WALL WHERE EXPOSED. (ELECTRICAL AS PART OF PHASE 2 ALTERNATE)
- 2 ANY HVAC HEATING/COOLING EQUIPMENT SERVING THE PORTION(S) OF THE RESTAURANT THAT IS IMMEDIATELY ADJACENT TO THE PROPOSED OPERABLE PARTITIONS TO THE OUTSIDE SHALL BE INTERLOCKED TO SHUT DOWN UPON OPENING THE OPERABLE PARTITIONS. NORMAL OPERATIONS OF THE HVAC HEATING/COOLING EQUIPMENT SHALL RESUME WHEN ALL OPERABLE PARTITIONS ARE CLOSED. INTERLOCK RESUME ADDRESS OF THE HADDEN OF THE PARTITIONS OF THE HOUSE OF THE PARTITIONS OF T NOT APPLY TO EXHAUST FANS, CEILING FANS, OR AIR MOVING FANS SERVING THE AREA IMMEDIATELY ADJACENT TO THE PROPOSED OPERABLE PARTITIONS. (ELECTRICAL AS PART OF PHASE 2 - ALTERNATE)



NO.	REASON	DATE
		-

System No. C-AJ-3180

increte Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. am (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly,

SECTION A-A

n opening to be max 45 percent of the aggregate cross-sectional area of the opening. Cables embly. Any combination of the following types and sizes of metallic conductor or fiber optic cable

with thermoplastic insulation and polyvinyl chloride (PVC) jacket. munication cables with polyvinyl chloride (PVC) insulation and jacket material.

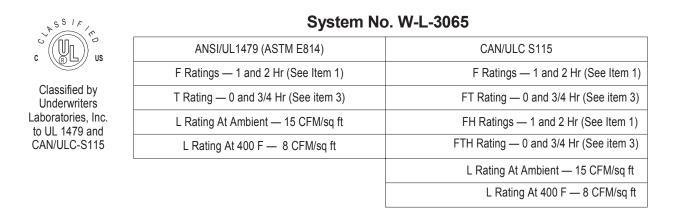
tor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) with PVC and having a max outside diam of 1/2 in. (13 mm). uminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.

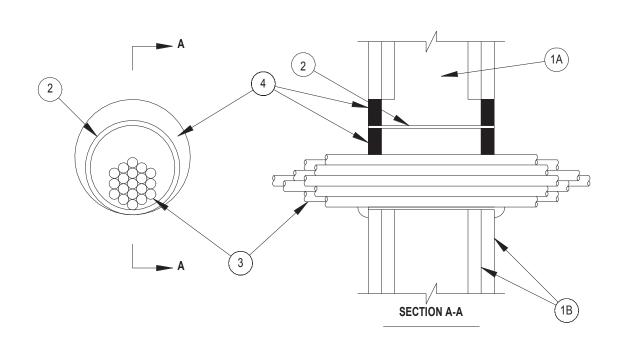
R cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.

n and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm) single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent

of floor to accommodate the required thickness of fill material. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or

IC — FS-One Sealant.





1. Wall Assembly — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surfaces. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

combination of the following types and sizes of copper conductor cables may be used:

B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket. B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables. C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm). C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.

D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm). E. Through Penetrating Products*— Max three copper conductor No. 8 AWG .Metal-Clad Cable+. AFC CABLE SYSTEMS INC

F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing. G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.

H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.

I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket. J. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products

K. Maximum 3/C No. 8 AWG metal-clad cable. L. Maximum 5/8 diam fiber-optic cable with PVC jacket. For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T rating is ¾ hr

for a 2 hr wall assembly. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

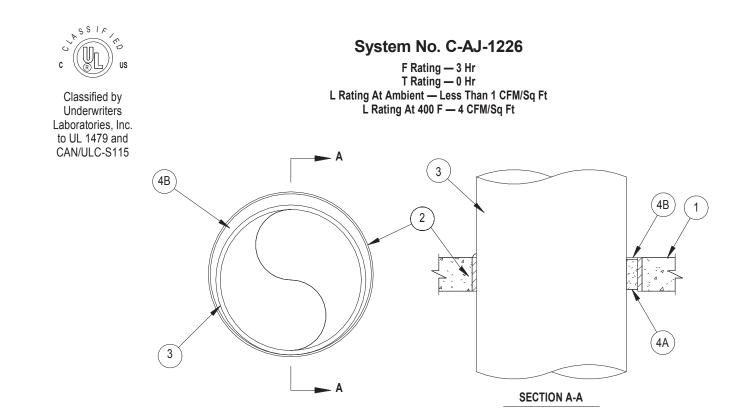
4. Fill, Void or Cavity Material*— Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional

1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealants or CP618 Putty *Bearing the UL Classification Mark +Bearing the UL Listing Mark

FIRE STOP -CABLES THROUGH

2 (UL SYSTEM W-L3065) N.T.S.



1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.

2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be

cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor. 2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be

3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic

cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe. C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. E. Conduit — Nom 6 in. diam (or smaller) steel conduit.

F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).

4. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required

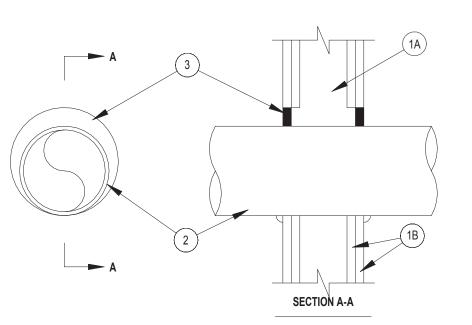
B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

FIRE STOP - METAL PIPE THROUGH CONCRETE (UL SYSTEM



System No. W-L-1054 ANSI/UL1479 (ASTM E814) CAN/ULC S115 F Ratings —1 and 2 Hr F Ratings — 1 and 2 Hr (See Items 1 and 3) (See Items 1 and 3) FT Rating — 0 Hr Γ Rating — 0 Hr L Rating at Ambient — Less Than FH Ratings —1 and 2 Hr (See Items 1 and 3) Rating at 400 F — Less Than FTH Rating — 0 Hr FTH Rating — 0 Hr L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe. C. Conduit — Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit. D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

FIRE STOP - METAL PIPE THROUGH GYP (UL SYSTEM W-L1054) N.T.S.



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E- EQUIPMENT SCHEDULE - MECHANICAL AIR CURTAIN								
Number of Poles	Panel	Circuit Number	Apparent Load	Wire Size	Breaker Rating	Comments		
			·					
2	K1	69,71	3.1 kVA	2-#8, 1-#8, 1-#10	40 A	PHASE 2 ALTERNATE		
2	K1	73,75	3.1 kVA	2-#8, 1-#8, 1-#10	40 A	PHASE 2 ALTERNATE		

AIR CURTAIN SCHEDULE										
		OVERALL								
MODEL	NUMBER	LENGTH	FAN	WEIGHT		ELEC.	MAX	MAX		
NUMBER	REQUIRED	(INCHES)	H.P.	(LBS.)	FLA	VOLT/PH.	FPM	CFM		
ETD-4-180	4	180	3/4 (4 EA)	X	X	208/1	1800	X		
ION, HIGH-EFFICIENCY PLENUM. COORDINATE FINISH WITH ARCHITECT AND OWNER.										
JRVED CENTRIF	FUGAL TYPE, D	OUBLE INLET I	DESIGN, WITH	ZINC PLATED I	HUBS.					

IE TO FACILITATE DEFLECTION OF AIRSTREAM +/- 20 DEGREES.

IP EC MOTORS. BLE SPEED SWITCH AND ADJUSTABLE TIME DELAY RELAY.

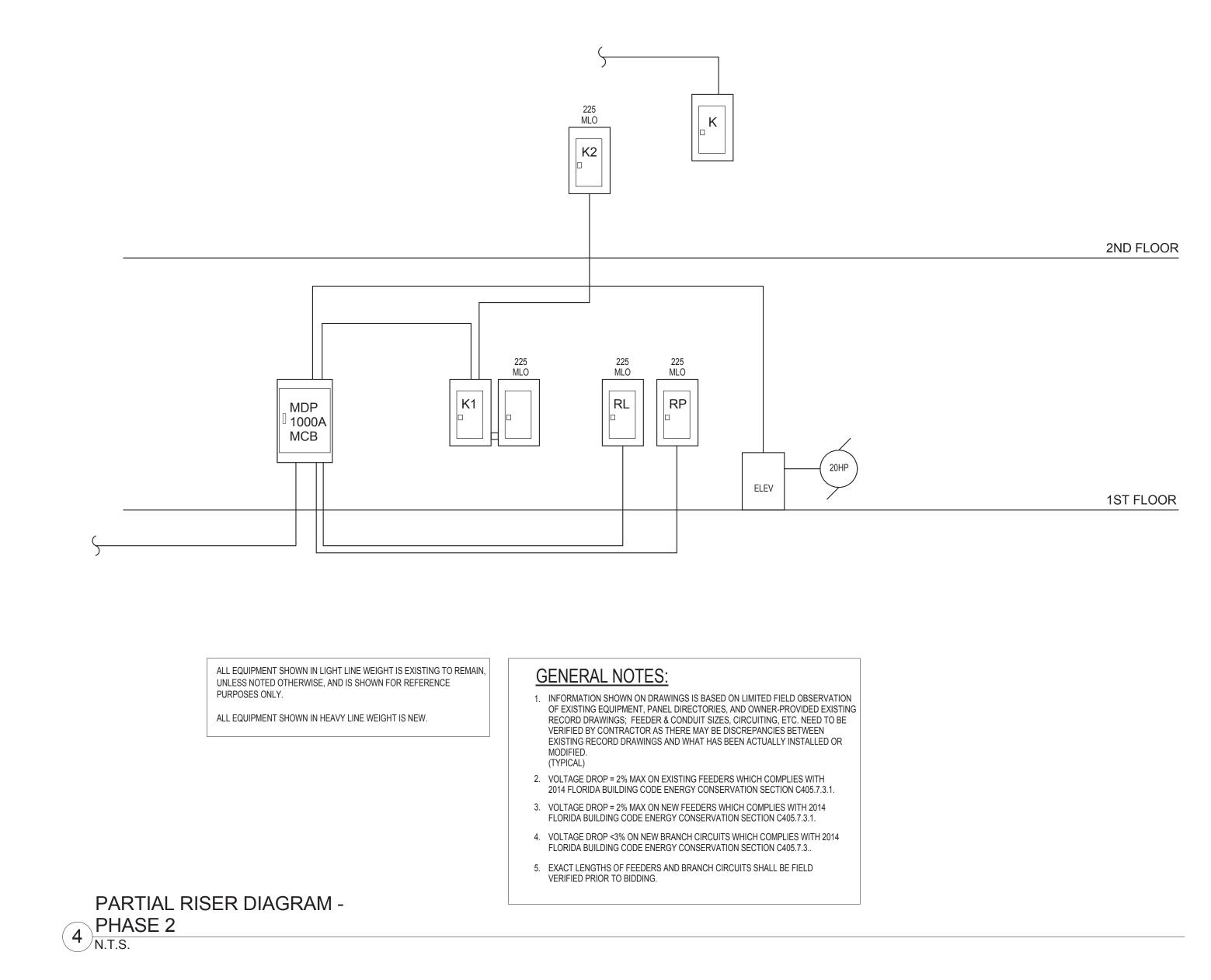
TO ENABLE UNIT WHEN ASSOCIATED PARTITION DOOR IS OPEN AND DISABLE UNIT WHEN DOOR IS CLOSED.

GLASS WINDOWS. PROVIDE BRACKETS AND LOCATE PER MANUFACTURER'S RECOMMENDATIONS,

FOR THE UNITED STATES AND CANADA.

240-VOLT, SINGLE PHASE, 20 AMP OR 30 D FROM THE FOLLOWING TABLES: CH SPECIFIC PROJECT)

ING FOR <3% VOLTAGE DROP CONSERVATION C405.7.3) ANCES (FT)			208 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP (PER FBC ENERGY CONSERVATION C405.7.3) DISTANCES (FT)						
#8	#6	#4	AMPS	#12	#10	#8	#6	#4	
			30 AMP CIR	RCUIT:					
105	164	254	24		126	191	298	457	
109	167	265	23		130	199	311	477	
114	179	277	22		137	208	325	499	
120	188	290	21		144	218	340	523	
126	197	305	20		151	229	357	549	
132	207	321	19		159	241	376	578	
140	219	338	18		168	255	397	610	
148	232	358	17		178	270	420	646	
	•		20 OR 30 A	MP CIRCUIT:					
157	246	381	16	114	189	286	445	686	
168	263	405	15	121	201	303	476	731	
180	282	435	14	130	215	326	509	783	
194	303	469	13	140	232	352	550	844	
210	329	508	12	152	251	381	596	915	
229	359	554	11	166	274	416	650	998	
252	395	610	10	182	301	456	714	1096	
280	438	677	9	203	336	507	793	1219	
315	493	762	8	229	378	572	892	1372	
360	564	871	7	262	431	655	1020	1568	
420	658	1016	6	305	504	762	1190	1829	
505	790	1220	5	365	604	915	1429	2195	
631	987	1525	4	457	757	1143	1786	2744	
841	1316	2033	3	610	1008	1524	2382	3658	
1262	1975	3050	2	916	1514	2292	3573	5487	
2525	3950	6101	1	1833	3028	4581	7148	10974	





EXISTING SERVICE: 95.8kW * 1.25 = 120kW

AC-1 + AC-2 + AC-3 + AC-4

NEW LOAD ADDED:

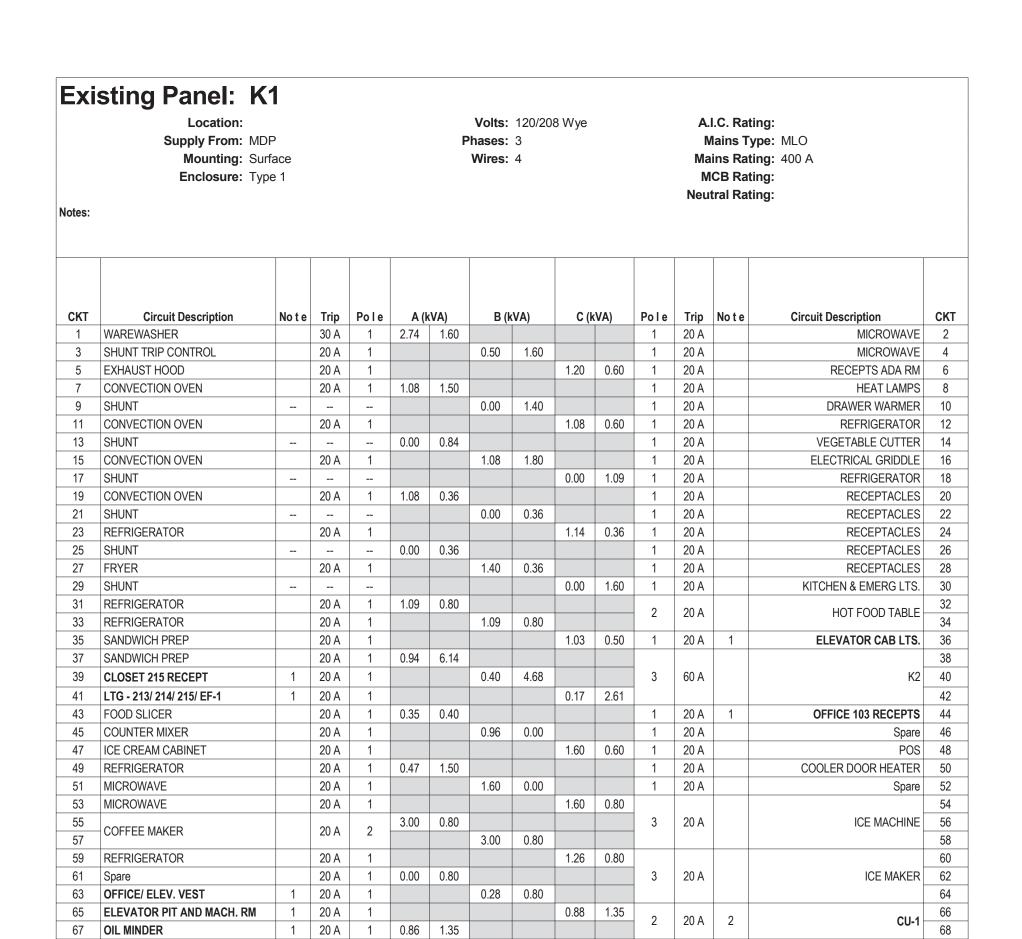
3.2 + 3.2 + 3.2 + 3.2 = 12.8

TOTAL BUILDING LOAD: 120kW + 40.35kW (ADDED IN PHASE 1)+ 12.8kW @ 208V 3-PHASE ~480A

MAIN SERVICE:

800A - 480A= 320A SPARE AMPS OF SERVICE CAPACITY

3 SERVICE CALC - PHASE 2





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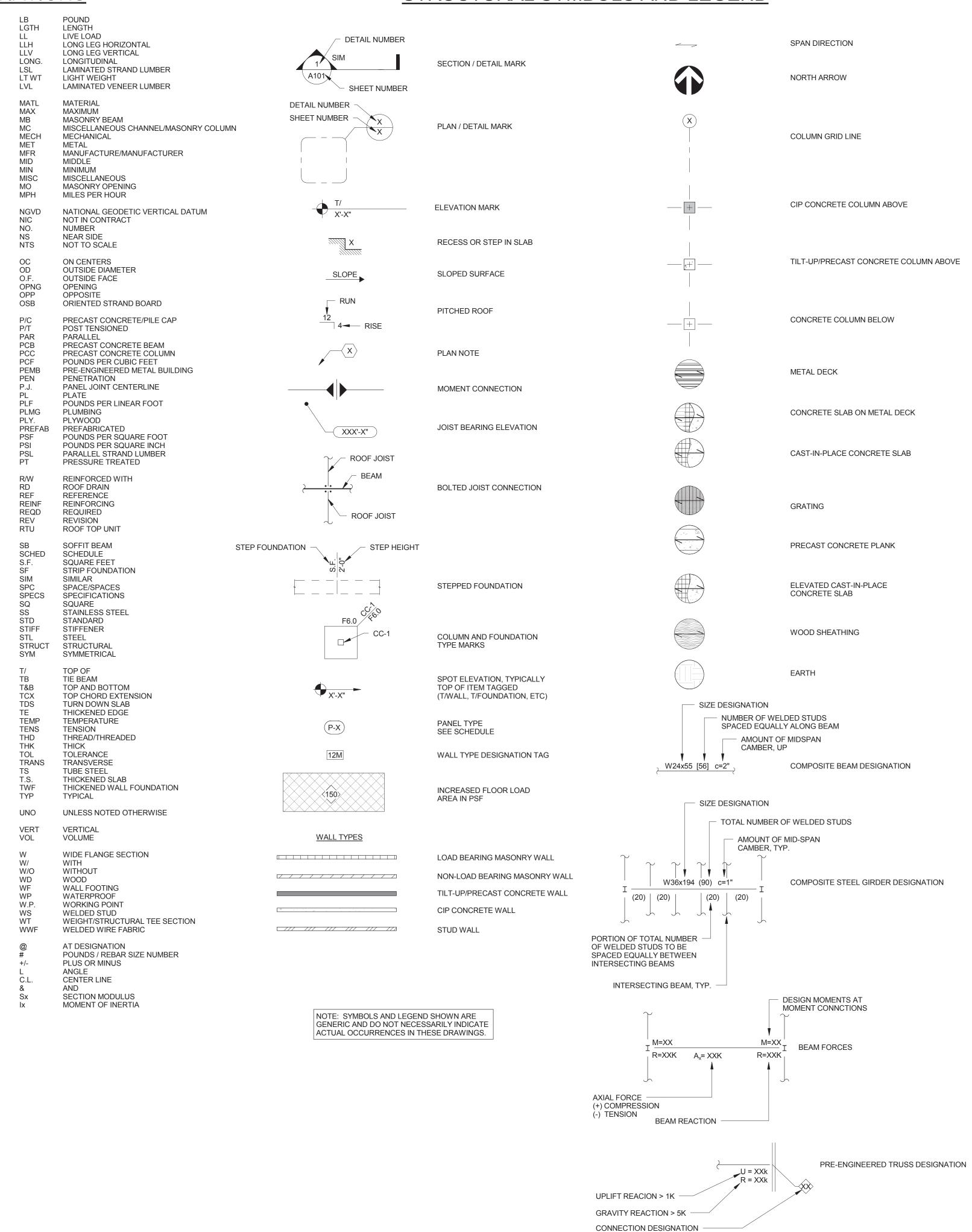
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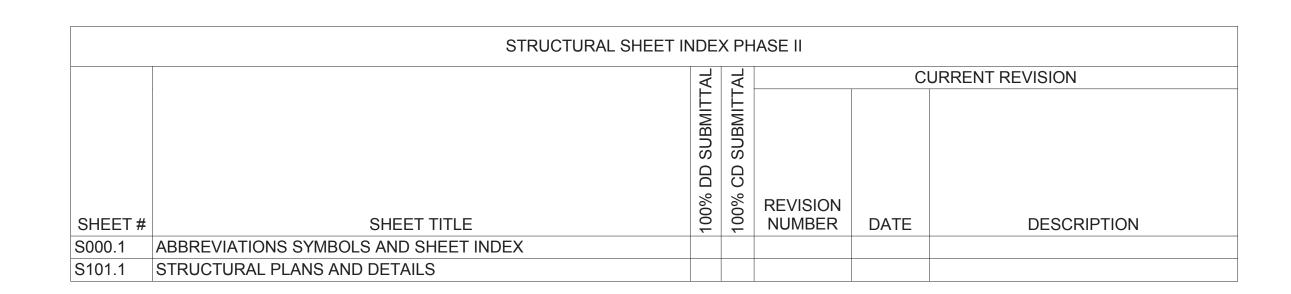
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08	/02/2016	
NO.	REASON	DATE

STRUCTURAL SYMBOLS AND LEGEND





STRUCTURAL DESIGN CRITERIA

- FLORIDA BUILDING CODE 2014 EDITION - ASCE 7-10
- D-2 DESIGN LIVE LOADS:

PUBLIC SPACE 100 PSF

D-3 ALLOWABLE SOIL BEARING PRESSURE1500 PSF (ASSUMED). TO BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

GENERAL NOTES

- G-1 REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH WORK. DIMENSIONS RELATING TO EXISTING CONSTRUCTION ARE TO BE FIELD VERIFIED.
- G-2 THE STRUCTURE IS DESIGNED TO BE VIABLE IN ITS FINAL, FULLY ERECTED CONFIGURATION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE SAFETY AND STABILITY OF THE BUILDING AND ITS COMPONENT PARTS DURING THE CONSTRUCTION PHASE OF THE PROJECT.
- G-3 THE EXTENT OF UNDERGROUND UTILITIES IS UNKNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING CONSTRUCTION DURING EXCAVATION.
- G-4 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN SIZE OR STRENGTH WITHOUT PRIOR APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER.
- G-5 COORDINATE STRUCTURAL AND OTHER DRAWINGS THAT ARE PART OF THE CONTRACT DOCUMENTS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS WHICH MAY AFFECT THE
- G-6 ALL DETAILS AND SECTIONS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT EXCEPT WHERE A SEPARATE DETAIL IS SHOWN.
- G-7 THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO PROVIDE ALL NECESSARY DETAILS TO CONSTRUCT A COMPLETE STRUCTURE. WHEN SPECIFIC INFORMATION IS MISSING OR IS IN CONFLICT, THE CONTRACTOR SHALL USE A SIMILAR DETAIL AND/OR THE MORE COSTLY ITEM OF CONFLICT. THE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- G-8 THE ENGINEER SHALL NOT BE RESPONSIBLE FOR LAYOUT, DIMENSIONAL ERRORS OR DISCREPANCIES RESULTING FROM THE REPRODUCTION AND USE OF CONTRACT DRAWINGS FOR ERECTION AND SHOP DRAWINGS. USE OF CONTRACT DRAWINGS REPRODUCED IN WHOLE OR IN PART IN SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTORS FROM THEIR RESPONSIBILITY TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- G-9 REVIEW ALL SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND FOR COMPLETENESS AND ANSWER ALL CONTRACTOR RELATED QUESTIONS. STAMP AND INITIAL ALL SHEETS PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT AND ENGINEER FOR REVIEW. NON-COMPLIANCE WITH THIS REQUIREMENT SHALL RESULT IN REJECTION OF SUBMITTAL.
- G-10 SHOP DRAWING SUBMITTALS SHALL BE CONSISTENT WITH THE SPECIFICATIONS. ADDITIONAL SETS OF SHOP DRAWINGS OTHER THAN THOSE REQUIRED WILL BE DISCARDED.
- G-11 THE INTERFACE TO THE EXISTING CONSTRUCTION WAS DESIGNED WITH THE MOST RELIABLE INFORMATION AVAILABLE TO THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. SHOULD EXISTING CONDITIONS VARY FROM THOSE SHOWN ON PLANS AND SECTIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER FOR EVALUATION AND, IF NECESSARY, MODIFICATION OF DESIGN.

STRUCTURAL STEEL

- S-1 FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION," THIRTEENTH EDITION AND THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," 2005 EDITION.
- S-2 ALL STRUCTURAL "W" SHAPES TO CONFORM TO ASTM A992 WITH MINIMUM YIELD STRENGTH OF 50 KSI. ANGLES, CHANNELS AND PLATES SHALL CONFORM TO ASTM A36 WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- S-3 ALL HIGH-STRENGTH BOLTS SHALL MEET THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- S-4 UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE 3/4" DIAMETER A325 AND SHALL BE BEARING TYPE CONNECTIONS.
- S-5 ALL SHOP AND FIELD WELDING SHALL BE DONE BY CURRENTLY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE," LATEST EDITION.
- S-6 USE E70XX LOW HYDROGEN ELECTRODES FOR ALL WELDING UNLESS NOTED OTHERWISE. GRIND SMOOTH ALL EXPOSED WELDS.
- S-7 SUBMIT STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. CLEARLY SHOW ALL PIECE MARKS, CONNECTIONS AND ERECTION DRAWINGS. ANY SPLICES NOT SHOWN ON CONTRACT DRAWINGS ARE TO BE CLEARLY NOTED FOR APPROVAL.

S-8 DO NOT WELD TO EMBEDS UNTIL CONCRETE HAS CURED AT LEAST 72 HOURS. USE



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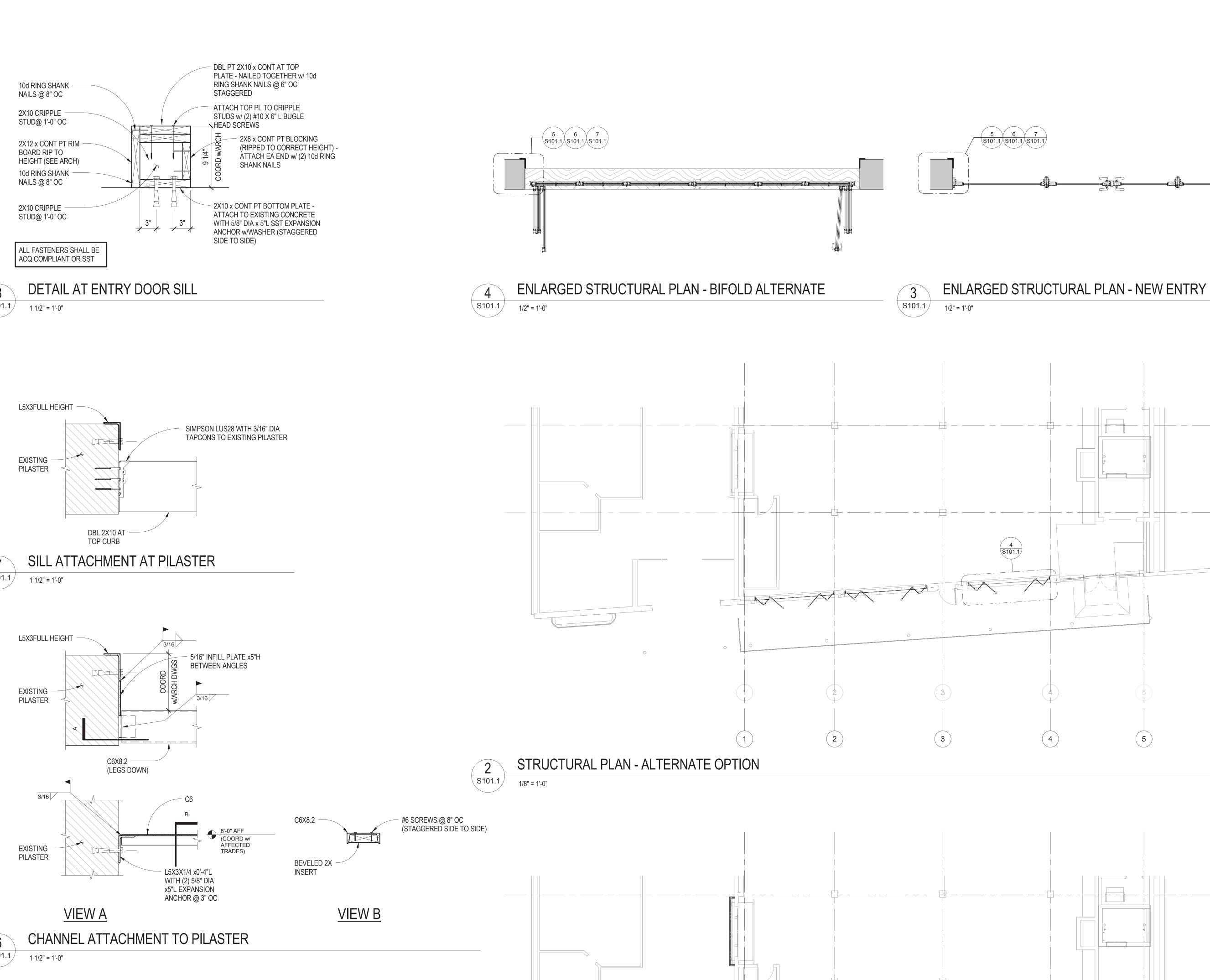


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ISSUE DATE

06/24/2016 REASON

PROJECT TEAM





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