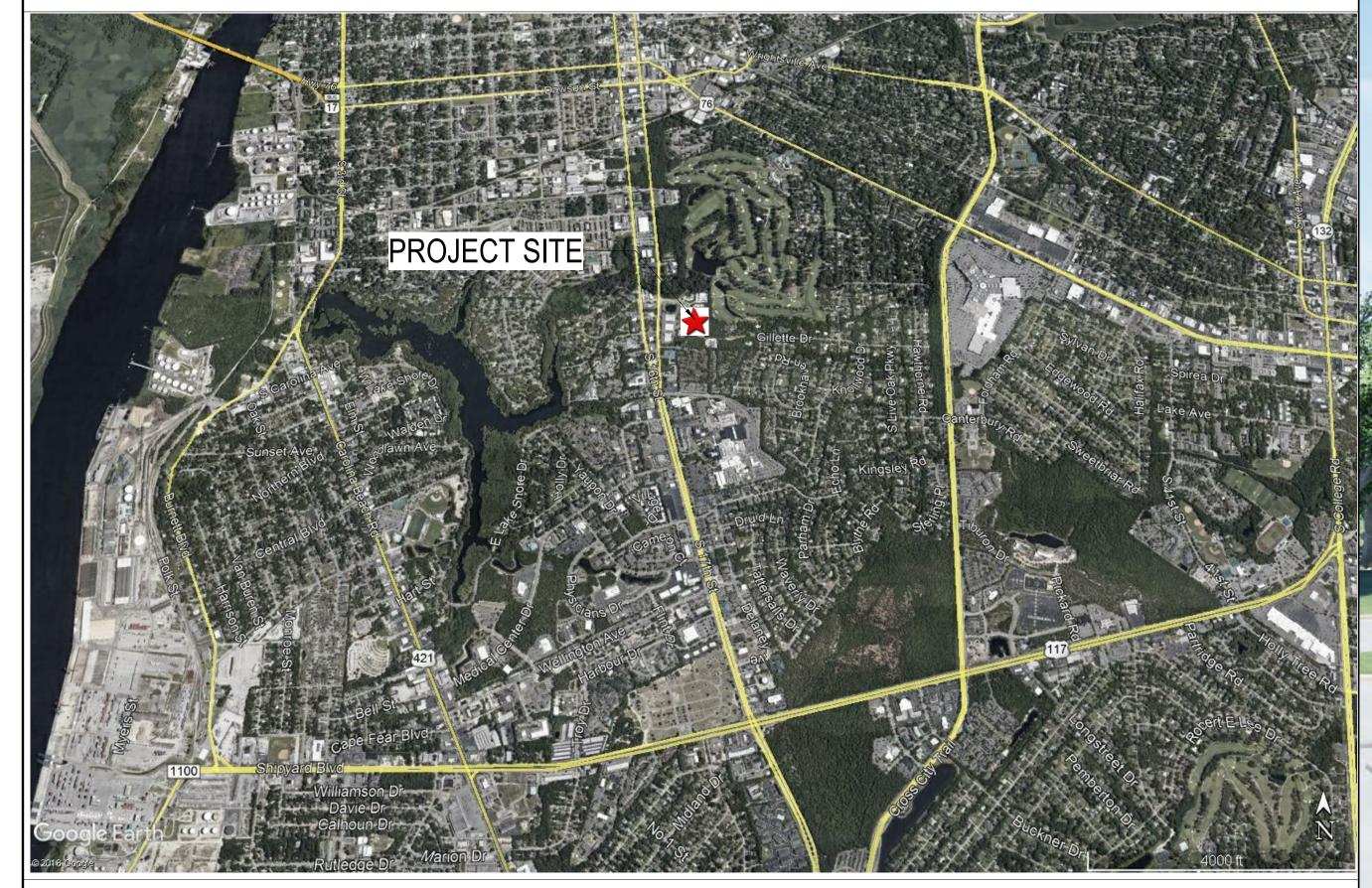
# WILMINGTON EYE CLINIC

# **CORE AND SHELL PLANS**

# SITE LOCATION MAP



# PROJECT TEAM

SEE SHEET T1.1 FOR DESIGN PROFESSIONALS



			ABE	BREVIATIONS			CALLO	UT SYMBOLS	
8	<u>k</u>	AND	FL	FLOOR	PLS	PLASTER	1		
L	-	ANGLE	FLDR FM	FOLDING DOOR FACTORY MUTUAL	PNL	PANEL	(A03.1)	EXTERIOR ELEVATION CALLOUT	
() X	<u>@</u> (	AT BY	FND	FOUNDATION	PTD	PAINTED (PAINTED FINISH)			
#	<b>‡</b>	NUMBER	F.O.M.	FACE OF MASONRY	PR PROJ	PAIR PROJECT			
	V/O	AID CONDITION/ED) (INC)	FR	FIRE RATED	PT	PRESSURE TREATED			
	VC \B	AIR CONDITION(ER) (ING) ANCHOR BOLT	FRTW FSS	FIRE RETARDANT TREATED WOOD FOLDING SHOWER SEAT	PLYWD	PLYWOOD	1		
	ACOUST	ACOUSTICAL	FT	FOOT	QT	QUARRY TILE	4 A08.1 2	INTERIOR ELEVATION CALLOUT	
	ACT	ACOUSTICAL CEILING TILE	FTG	FOOTING	QI	QUARRY FILE	4 A00.1 2	INTERIOR ELEVATION CALLOUT	
	ADJ AFF	ADJUSTABLE ABOVE FINISHED FLOOR	<b>C</b> A	GAUGE	RAD	RADIUS	3		
	AHJ	AUTHORITY HAVING JURISDICTION	GA GALV	GALVANIZED	RD	ROOF DRAIN	-		
	ALT	ALTERNATE	GB	GRAB BAR	REBAR RECT	REINFORCING BAR RECTANGULAR			
	ALUM	ALUMINUM	GC	GENERAL CONTRACTOR	REINF	REINFORCEMENT	1		
	APPROX ARCH	APPROXIMATELY ARCHITECTURAL	GFCMU	GROUND FACE CONCRETE MASONRY UNITS	REQ	REQUIRED	A000		
		7.11.01.11.12.01.01.01.12	GL	GLASS, GLAZING	REP	REPRESENTATIVE			
	BLDG	BUILDING	GLB	GLASS BLOCK	RFG RM	RECESSED FOOT GRILLE ROOM	]	SECTION CALLOUT	
	BLKG BM	BLOCKING BEAM	GLCMU	GLAZED FACE CONCRETE	R/W	RIGHT-OF-WAY			
	BR	BRICK	GYPLS	MASONRY UNITS GYPSUM PLASTER	RWC	RAIN WATER CONDUCTOR			
Е	BRG	BEARING	GWB	GYPSUM WALL BOARD					
	BTM	BOTTOM			S/H	SEALER/HARDENER			
ь	BUR	BUILT UP ROOFING	H	HIGH, HEIGHT	SC SF	SOLID CORE SQUARE FOOT	_	(1)	
C	C/C	CENTER TO CENTER	HC HD	HANDICAPPED HAND DRYER	SF SFCMU	SPLIT FACE CONCRETE		A000	
	CJ	CONSTRUCTION JOINT	HDWE	HARDWARE		MASONRY UNITS	[ ]		
	C/L C/L	CENTER LINE CENTER LINE	HDWD	HARDWOOD	SGB	STRUCTURAL GLAZED BLOCK	1 1	ENLARGED PLAN CALLOUT	
	CAR	CARPET (ROLL GOODS/BROADLOOM)	HM HORIZ	HOLLOW METAL HORIZONTAL(LY)	SIM SK	SIMILAR SINK	1 1		
C	CBB	CEMENTITIOUS BACKER BOARD	HR	HOUR	SOG	SLAB ON GRADE			
	CCT	CUBICLE CURTAIN TRACK	HVAC	HEATING, VENTILATING,	SPEC	SPECIFICATIONS	\ \'		
	CLG CLO	CEILING CLOSET		AIR CONDITIONING	SQ	SQUARE SAG-RESISTANT GYPSUM BOARD			
	CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	SRGB SS	STAINLESS STEEL			
	COL	COLUMN	INSUL	INSULATION	STC	SOUND TRANSMISSION CLASS	N		
	CONC	CONCRETE CONFERENCE	INT	INTERIOR	STD	STANDARD		NORTH ARROW	
	CONST	CONSTRUCTION	INTMD INV	INTERMEDIATE INVERT	STL STOR	STEEL STORAGE		NORTH ARROW	
C	CONT	CONTINUOUS	IRWC	IMPACT RESISTANT WALLCOVERING	STRUCT	STRUCTURAL			
	CONTR	CONTRACTOR			SUPPL	SUPPLEMENTARY			
	CORR	CORRIDOR CARPET TILE	JAN	JANITOR JUNCTION BOX	SUSP SV	SUSPENDED SHEET VINYL	20011111		
	CRS	COURSE	JB JT	JOINT BOX	SVT	SOLID VINYL TILE	ROOM NAME	ROOM TAG W/ SQ. FT.;	
C	CT	CERAMIC TILE					101	SEE ROOM FINISH SCHEDULE	
г	DBL	DOUBLE	LAM	LAMINATED	TEMP	TEMPERED	150 SF		
	DEM	DEMISING	LAV LF	LAVATORY LINEAR FEET	T/BM T&G	TOP OF BEAM TONGUE AND GROOVE			
	OF .	DRINKING FOUNTAIN	LIN	LINOLEUM	THR	THRESHOLD			
	DIA DIM	DIAMETER DIMENSION	LLH	LONG LEG HORIZONTAL	T/JST	TOP OF JOIST	XX#-X/X-#	WALL TAG W/ SOUND	
	ON .	DOWN	LLV	LONG LEG VERTICAL	TKBD TOM	TACK BOARD TOP OF MASONRY	STC - 1hr	& FIRE RATING	
	OS	DOWN SPOUT	M	MIRROR	TOS	TOP OF MASONKT			
	)P	DEEP	MAINT	MAINTENANCE	T/ST	TOP OF STEEL			
	DR DET	DOOR DETAIL	MATL MAX	MATERIAL MAXIMUM	TTD TYP	TOILET TISSUE DISPENSER TYPICAL	(1'-0")	OFILINO TAO	
	DWG	DRAWING	MECH	MECHANICAL	ITP	TYPICAL	ACTX	CEILING TAG	
			MET	METAL	UNO	UNLESS NOTED OTHERWISE			
	EA EF	EACH EACH FACE	MFR	MANUFACTURER					
	Ξ.J.	EXPANSION JOINT	MH MIN	MANHOLE MINIMUM	V VCT	VINYL VINYL COMPOSITION TILE	(101)	DOOR TAG;	
Е	ΞL	ELEVATION	MO	MASONRY OPENING	VERT	VINTE COMPOSITION TILE  VERTICAL	101)	SEE DOOR SCHEDULE	
	ELEC	ELECTRICAL	MOULD	MOULDING	VEST	VESTIBULE			
	ELEV ENCL	ELEVATION ENCLOSED (SURE)	MTD	MOUNTED	1844	MUTI			
	ENCL EQ	EQUAL	NIC	NOT IN CONTRACT	W/ WC	WITH WATER CLOSET	1t	WINDOW TAG	
Е	EQUIP	EQUIPMENT	NO.	NUMBER	WD	WOOD			
	ETC EW	ET CETERA EACH WAY	NOM	NOMINAL	W/O	WITHOUT			
	EWC	ELECTRIC WATER COOLER	NTS	NOT TO SCALE	WR WPT	WASTE RECEPTACLE WOOD - PRESERVATIVE TREATED			
E	EXIST	EXISTING	O OC	OF ON CENTER	WWF	WELDED WIRE FABRIC	####	KEYNOTE	
E	EXT	EXTERIOR	OD	OUTSIDE DIAMETER	NOTES:				
					MICHILLO:				

1. FOR ADDITIONAL REFERENCE THE

CONSTRUCTION INDUSTRY STANDARDS -

2. THIS LEGEND DOES NOT ASSUME THAT

ALL ABBREVIATIONS ARE USED.

C.S.I DOCUMENT TD - 2-4 ABBREVIATIONS.

CODED NOTE

OPENING

PERIM PERIMETER

PLATE

P/L PROPERTY LINE
PLAM PLASTIC LAMINATE
PLBG PLUMBING

OPPOSITE

ORD OVERFLOW ROOF DRAIN

OPNG

FIRE EXTINGUISHER

FIRE HOSE CABINET

FIRE HYDRANT

FIXTURE

FHC

FIN FIXT

FIRE EXTINGUISHER CABINET

	EARTH (UNDISTURBED)	ALUMINUM	PROJECT MANAGER.  2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES A  3. THE CONTRACTOR IS TO ADHERE TO ALL ACCEPTED INDUST
	EARTH (COMPACT FILL)	SOLID WOOD	<ol> <li>THE CONTRACTOR IS TO FOLLOW ALL INSTALLATION PROCE INSTRUCTIONS.</li> <li>DO NOT SCALE DRAWINGS. DIMENSIONAL DISCREPANCIES PROJECT MANAGER / ARCHITECT.</li> </ol>
	STONE/GRAVEL FILL	FINISH WOOD	6. THIS DESIGN BUILD PROJECT INCLUDES BUILDING SHELL, ST MAIN BUILDING ENTRANCE, BUILDING ELEVATOR, STAIRS, EX FLOOR TENANT PLANS. PARTIAL MECHANICAL, ELECTRICAL FUTURE TENANT PLANS NOT INCLUDED IN THIS SET. THIS B
	RIVER ROCK	PLYWOOD	
	GRADE	GYPSUM WALL BOARD	
	CONCRETE	RIGID INSULATION	
	CONCRETE MASONRY UNIT (CMU)	ACOUSTIC CEILING TILE	
	CMU - SOLID	BATT INSULATION	
	CMU - HOLLOW	CONTINUOUS WOOD FRAMING	
	BRICK	WOOD BLOCKING	
	STUCCO	NOT IN CONTRACT	
	STEEL		

**MATERIALS** 

I. ALL EXISTING CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. IN THE EVENT OF ANY DISCREPANCIES, THE CONTRACTOR IS TO REPORT SAID ANOMALIES TO THE OWNER'S S AND SERVICES PRIOR TO START OF WORK. DUSTRY PRACTICES. OCEDURES PER MANUFACTURER'S IES AND QUESTIONS SHALL BE DIRECTED TO THE L, STRUCTURE, FOUNDATION, EXTERIOR WALL, S, EXTERIOR FINISHES AND LIGHTING, AND FIRST ICAL AND PLUMBING WORK IN SUPPORT OF IS BUILDING WILL NOT BE SPRINKLERED.

**GENERAL PROJECT NOTES** 

Sheet Number	Chart Name	
nulliber	Sheet Name	
ΓITLE		
T1.0	TITLE SHEET	
T1.1	APPENDIX B - BUILDING CODE SUMMARY	
ARCHITECTURAL		
AS1.1	ARCHITECTURAL SITE PLAN & LIFE SAFETY PLANS	
A0.1	PARTITION TYPES	
A1.1	FIRST FLOOR PLAN	
A1.2	SECOND FLOOR PLAN	
A1.4	DOOR DETAILS, SCHEDULES & NOTES	
A1.5	GLAZING SYSTEM ASSEMBLIES	
A2.1	ROOF PLAN	
A2.2	ROOF DETAILS	
A3.1	EXTERIOR ELEVATIONS	
A3.2	EXTERIOR ELEVATIONS	
A4.1	BUILDING SECTIONS	
A5.1	WALL SECTIONS	
A5.2	WALL SECTIONS AND DETAILS	
A6.1	STAIRS/ELEVATOR PLANS & SECTIONS	
A6.2	RESTROOM PLANS & ELEVATIONS	
A9.1	FIRST FLOOR REFLECTED CEILING PLAN	
A9.2	SECOND FLOOR REFLECTED CEILING PLAN	
A10.1	ROOM FINISH SCHEDULE & DETAILS	
STRUCTURAL		
S0.1	STRUCTURAL NOTES	
S1.0	FOUNDATION PLAN	
S2.0	SECOND FLOOR FRAMING PLAN	
S2.1	ROOF FRAMING PLAN	
S3.0	STRUCTURAL DETAILS	
S4.0	TRASH ENCLOSURE	
MECHANICAL		
M1	FIRST FLOOR PLAN - MECHANICAL	
M2	FIRST FLOOR PLAN - VENTILATION AND PIPING	
M3	SECOND FLOOR PLAN - MECHANICAL	
M4	SECOND FLOOR PLAN - VENTILATION AND PIPING	
M5	MECHANICAL SCHEDULES AND DETAILS	

Sheet Number	Sheet Name
PLUMBING	
P1	FIRST FLOOR PLAN - WASTE
P2	SECOND FLOOR PLAN - WASTE
P3	FIRST FLOOR PLAN - WATER
P4	SECOND FLOOR PLAN - WATER
P5	PLUMBING ISOMETRICS
P6	PLUMBING DETAILS AND SCHEDULES
ELECTRICAL	
<u>=</u> 1	FIRST FLOOR PLAN - LIGHTING
E2	SECOND FLOOR PLAN - LIGHTING
E3	FIRST FLOOR PLAN - POWER
E4	SECOND FLOOR PLAN - POWER
<del>-</del> 5	FIRST FLOOR PLAN - FIRE ALARM
<b>E</b> 6	SECOND FLOOR PLAN - FIRE ALARM
E7	PANEL SCHEDULES
E8	RISERS

CIVIL DRAWINGS ARE PREPARED BY:

1123 FLORAL PARKWAY WILMINGTON, N.C. 28403

HDS HANOVER DESIGN SERVICES P.A.

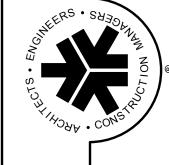
LAND SURVEYORS ENGINEERS & LAND PLANNERS

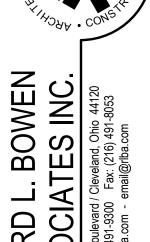
DRAWINGS ARE AVAILABLE UPON REQUEST.

DRAWN BY: CHECKED BY:

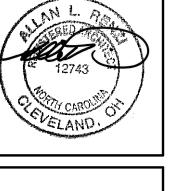








THIS ARCHITECTURAL AND DISSEMINATION MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT. ALL RIGHTS ARE HEREBY SPECIFICALLY RESERVED



**Project Information** 

2015 IECC Energy Code: Project Title: Wilmington Eye Clinic Leland, North Carolina Location: Climate Zone: Project Type: New Construction Vertical Glazing / Wall Area: 20%

Construction Site: 1729 Medical Park Drive Wilmington, NC 28403

Designer/Contractor:

 $\cdot$ 

Additional Efficiency Package(s) High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist

**Building Area** Floor Area 1-Office: Nonresidential

Envelope Assemblies

Project Title: Wilmington Eye Clinic

Data filename: P:\13151\Arch\Comcheck\Wilmington Eye Clinic 2018 IECC.cck

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
Roof 1: Insulation Entirely Above Deck: High Albedo Roof Required, 3- Year-Aged Solar Reflectance Index = 90.00 (d), [Bldg. Use 1 - Office]	11280	-	38.0	0.026	0.039
Floor 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - Office] (c)	442	- <del> </del>		0.730	0.730
NORTH Exterior Wall 2: Solid Concrete:7" Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Office]	2511	19.0	0.0	0.129	0.123
Window 2: Metal Frame with Thermal Break, Perf. Specs.: Product ID IG-1, SHGC 0.25, [Bldg. Use 1 - Office] (b)	240	\$ <u></u>		0.450	0.460
Door 1 copy 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Clear , SHGC 0.80, [Bldg. Use 1 - Office]	72	(****	200	1.200	0.770
<u>EAST</u> Exterior Wall 1: Solid Concrete:7" Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Office]	3588	19,0	0.0	0.129	0.123
Window 1: Metal Frame with Thermal Break, Perf. Specs.: Product ID IG-1, SHGC 0.25, [Bldg. Use 1 - Office] (b)	696			0.450	0.460
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Clear , SHGC 0.80, [Bldg. Use 1 - Office]	24	(254)		1.200	0.770
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	24	pre.	222	0.160	0.610
SOUTH Exterior Wall 4: Solid Concrete:7" Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Office]	1992	19.0	0.0	0.129	0.123
Window 4: Metal Frame with Thermal Break, Perf. Specs.: Product ID IG-1, SHGC 0.25, [Bldg. Use 1 - Office] (b)	714			0.450	0.460

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
Door 5: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Clear , SHGC 0.80, [Bldg. Use 1 - Office]	80			1.200	0.770
<u>WEST</u>					
Exterior Wall 3: Solid Concrete:7" Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Office]	3808	19.0	0.0	0.129	0.123
Window 3: Metal Frame with Thermal Break, Perf. Specs.: Product ID IG-1, SHGC 0.25, [Bldg. Use 1 - Office] (b)	476	una.	**************************************	0.450	0.460
Door 4: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	24			0.160	0.610
Door 1 copy 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Clear, SHGC 0.80, [Bldg. Use 1 - Office]	24	HOUSER	ESSEA.	1.200	0.770

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation. (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors. (d) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

invelope PASSES: Design 1% better than code

**Envelope Compliance Statement** Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Data filename: P:\13151\Arch\Comcheck\Wilmington Eye Clinic 2018 IECC.cck

Project Title: Wilmington Eye Clinic

Report date: 08/16/19

Page 2 of 9

Report date: 08/16/19

Page 1 of 9

APPENDIX B - BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

) \	Name of Project:	WILMINGTO	N EYE CLINIC				
	Address:	1729 MEDIC	AL PARK DRIVE, WILMING	STON, NC 28403			
)	Proposed Use:	B-BUSINESS	3				
)	Owner or Authorized Age	ent:	TRACE ADAMS	Phone #	<del> </del>	910.443.8753	
)	Owned By:		☐ City/County	<b>■</b> Pi	rivate		☐ State
	Code Enforcement Juriso	diction:	☐ City	<b>C</b>	ounty	NEW HANOVER	
)			•				

DESIGNER	FIRM Richard L. Bowen + Assoc., Inc	NAME Allan L. Renzi	LICENSE # 12743	TELEPHONE # (216) 491-9300
Architectural Civil	Hanover Design Services	Adam H. Grady	43166	(910) 343-8002
Electrical	S & S Designs	Sid A Bendahmane	12918	(910) 470-9687
Fire Alarm Plumbing	S & S Designs	Sid A Bendahmane	12918	(910) 470-9687
Mechanical	S & S Designs	Sid A Bendahmane	12918	(910) 470-9687
Sprinkler - Standpipe Structural Retaining Walls > 5' High Other	Citadel Contractors Inc	Christopher Jackson	036852	(919) 362-5122

YEAR EDITION OF CODE:  ■ New Construction:			NORTH CAROLINA BUILDING CODE, 2018 I				ווטו			
		$\square$ R	Renovation (Existing Bldg)				☐ Upfit			Alteration
BUILDING DATA										
Construction Type:		I-A	□ I-B		I-A		II-B	☐ III-A		☐ III-B
		IV	□ V-A		V-B					
	Mi	ixed Constru	uction:		No		Yes	Types		
Sprinklers:	No	☐ Yes		[	□ NFP	A 13		NFPA 13R	☐ NFF	PA 13D
Standpipes:	No	☐ Yes		Class [				III Wet	☐ Dry	
Fire District:	No	☐ Yes								
Building Height: _	36'-0"	Feet _	2	_ Number o	f Stories	S		Unlimited Per		
Mezzanine:	No	☐ Yes								
High Rise: ■	No	☐ Yes	Centr	al Referenc	e Sheet	# (if prov	vided)			
Gross Building Area:										
FLOOR	EXISTI	NG (SQ FT)	)	NE'	W (SQ	FT)		SUB	-TOTAL	
6th Floor		•								
5th Floor		•								
4th Floor		•								
3rd Floor		•								
2nd Floor		•			11,573				11,573	3
Mezzanine		-								
1st Floor					11,573				11,573	}
Basement		-								
TOTA:										

23,146

ALLOWABI	E AREA
☐ Assembly	

?	Primary Occupancy:		Assembly	□ A-1 □	A-2	□ A-4 □	A-5
)	Business	Educational	Factory-Industria	l	□ F-1	□ F-2	
3	High-Hazard	☐ H-1	☐ H-2		H-3 🔲 H-4	☐ H-5	
3	Institutional	□ I-1	□ I-2		I-3		
く		I-3 Use Condition	□ 1 □ 2	□ 3 □	4 🗆 5		
Z	Mercantile	Residential	☐ R-1 ☐ R-2	□ R-3 □	R-4		
?	Storage	□ S-1	☐ S-2 ☐ High-p	iled			
$\langle$	Utility and Misce	llaneous	Parking Garage   (	Open $\square$	Enclosed	Repair	
3	Secondary Occupancy:	N/A					
3	Special Occupancy:	□ 508.2 □	508.3 🗆 508.4 🖂 🖯	508.5 🗆 508.6			
$\langle$	Mixed Occupancy:	■ No □ `	Yes Separation:	<u> </u>	Exception:		

Separation: \_\_\_0 Hr. Exception: The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Mixed Occupancy (302.3.2) See below for area calculations

Actual Area of Occupancy A

Allowable Area of Occupancy A

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.

	Allowable Alloa of Goodparioy A			7 IIIOWabio 7 II oc	d of Goodparloy B			
			+ _		+	=	≤ 1	
Story No.	Description and Use	(A) Bldg Area Per Story (Actual)	(B) Table 506.2 Area	(C) Area For Open Space Increase	(D) Area For Sprinkler Increase	(E) Allowable Area Or Unlimited	(F) Maximum Building Area	
1ST - 2ND	OFFICE	11,573	23,000	N/A	N/A	-		

Actual Area of Occupancy B

Allowable Area of Occupancy B

1 Open space area increases from Section 506 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width= b. Total Building Perimeter = c. Ratio (F/P) =

d. W = Minimum width of public way = e. Percent of frontage increase If = 100 [F/P - 0.25] x W/30 = 2 The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building Is = 200 percent b. Single story building Is = 300 percent

3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-3, A-4 (507.1, 507.2, 507.3, 507.5); Group A motion picture (507.9); Malls (402.6); and H-2 aircraft paint hangers (507.7). 4 Maximum Building Area = total number of stories in the building x E but not greater than 3 x E

5 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type II-B		Type II-B	601
Building Height in Feet	Feet <u>55</u>	Feet=H+20'= N/A	36'-0"	503
Building Height in Stories	Stories 3	Stories + 1 = N/A	Stories 2	503
	·	·		·

WL 1054

		FIRE PI	ROTECTION REQU	JIREMENTS			
Life Safety Plan Sheet #, if Provide	N	<u>/A</u>					
BULDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL# AND	DESIGN# FOR	DESIGN # FOR RATED	DESIGN# FOR
		REQ'D	PROVIDED (W/ REDUCTION)	SHEET#	RATED ASSEMBLY	PENETRATION	RATED JOINTS
Structural frame, including columns, girders, trusses	0	0	0	0	0	0	0
Bearing walls							
Exterior							
North	≥ <b>30</b> ′	0					
East	≥ <b>30</b> ′	0					
West	≥ <b>30</b> ′	0					

North	≥ 30'	0				
East	≥ <b>30</b> ′	0				
West	≥ 30'	0				
South	≥ <b>30</b> ′	0				
Interior		N/A				
Nonbearing walls and partitions						
Exterior		N/A				
North	≥ 30'	N/A				
East	≥ <b>30</b> ′	N/A				
West	≥ 30'	N/A				
South	≥ <b>30</b> ′	N/A				
Interior		0				
Floor construction Including supporting beams and joists		0				
					WL 1054	
Roof construction Including supporting beams and joists		0				
Shafts - Exit		1	1	Per NC Code Table 720.1 (2) Item No. 4-1.1	WL 1054	
Shafts - Other		1			WL 1054	

Occupancy N/A Separation Party/Fire Wall N/A Separation

N/A

N/A

Tenant Separation \* Indicate section number permitting reduction

Corridor Separation

Smoke Barrier

Separation

	LIFE SAFETY S	YSTEM REQUIREME
Emergency Lighting:	□ No	Yes
Exit Signs:	□ No	Yes
Fire Alarm:	□ No	Yes
Smoke Detection Systems:	■ No	☐ Yes
Panic Hardware:	□ No	Yes

# EXIT REQUIREMENTS

# NUMBER AND ARRANGEMENT OF EXITS

FLOOR ROOM OR SPACE	_	M NUMBER EXITS	TRAVEL [	DISTANCE	ARRANGEMENT MEANS OF EGRES (SECTION 1014.2.1)		
DESIGNATION	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1015.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS	
FIRST	2	5	200'-0"	161'-0"	79'-6"	131'-6"	
SECOND	2	2	200'-0"	159'-0"	79'-6"	131'-6"	

1 Corridor dead ends (Section 1016.3) 2 Single exits (Table 1014.1) 3 Common Path of Travel (Section 1013.3)

# EVIT WIDTH

USE GROUP OR	(a)	(b)	(c	:)		EXIT WIDTH (	(in)2,3,4,5,6	
SPACE DESCRIPTION	AREA sq. ft.	. ft. AREA PER EGR		EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED WIDTH (SECTION 1005) (a/b) x c		L WIDTH WN ON ANS
		1004.1.2)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
Business	11,573	100	0.3	0.2	34.8"	23.2"	96" Total	68" Total

1 See Table 1004.1.2 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area, Net" (Section 1002)

2 The sprinkler increase per Section 506.3 is as follows:

c. Multi-story building Is = 200 percent d. Single story building Is = 300 percent

3 Minimum stairway width (Section 1009.1); min. corridor width (Section 1006.1); min. door width (Section 1008.1)

4 Minimum width of exit passageway (Section 1005.1)

5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)

6 Assembly occupancies (Section 1024)

STRUCTURAL DESIGN REFER TO STRUCTURAL DWGS.

**DESIGN LOADS:** REFER TO STRUCTURAL DWGS. Importance Factors: REFER TO STRUCTURAL DWGS. Snow (Is) REFER TO STRUCTURAL DWGS. Seismic (IE) REFER TO STRUCTURAL DWGS. Live Loads: Mezzanine REFER TO STRUCTURAL DWGS.

Snow Load:

Wind Load: Basic Wind Speed Exposure Category Wind Base Shears (for MWFRS)

(See shell documents) SEISMIC DESIGN CATEGORY A Compliance with Section 1616.4 only? ☐ Yes ☐ No

SEISMIC DESIGN CATEGORY B, C, &D Provide the following Seismic Design Parameters: Seismic Use Group Spectral Response Acceleration Site Classification Basic structural system (check one) \_ Bearing Wall Dual w/Special Moment Frame \_ Building Frame \_ Dual w/Intermediate R/C or Special Steel \_ Moment Frame Inverted Pendulum

Vx = Seismic base shear Vy -Analysis Procdure \_ Equivalent Lateral Force Architectural, Mechanical, Components anchored?

LATERAL DESIGN CONTROL: SOIL BEARING CAPACITIES: Field Test (provide copy of test report) Presumptive Bearing capacity Pile size, type, and capacity

### PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY	WATER	ER CLOSETS URINAL		URINALS LAVATORIES		SHOWERS/	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
1ST (BUSINESS)	1	2	1	2	2	N/A	1	1
2ND (BUSINESS)	1	2	1	2	2	N/A	1	1

#### ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE PA	TOTAL # ACCESSIBLE PROVIDES	
	REQUIRED	PROVIDED	REGULAR W/ 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	REF. CIVIL DWGS.				
TOTAL					

#### SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

# **ENERGY SUMMARY**

**ENERGY REQUIREMENTS:** The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

THERMAL ENVELOPE

Method of Compliance: ■ Prescriptive □ Performance □ Energy Cost Budget (See attached COMcheck this sheet)

ELECTRICAL SUMMARY REFER TO ELECTRICAL DWGS.

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Prescriptive Performance Energy Cost Budget

MECHANICAL SUMMARY REFER TO MECHANICAL DWGS.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Method of Compliance: ☐ Prescriptive ☐ Energy Cost Budget

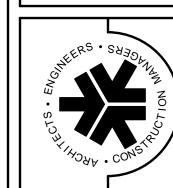


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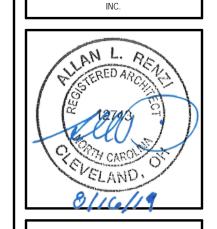






RICHARD + ASSOCI

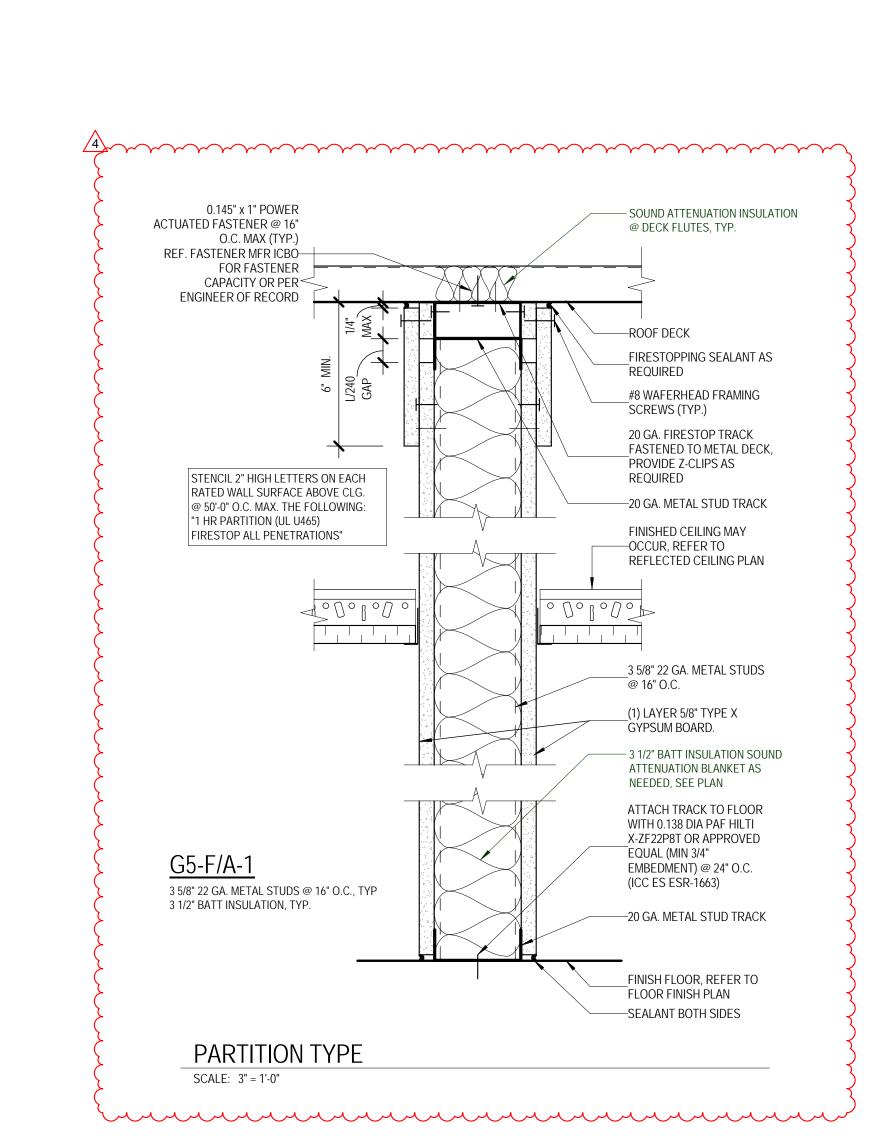
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WILMINGTON E 1729 MEDICAL PARK WILMINGTON, NC 28

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RLB NO.: DRAWING NO.



SOLID TRACK STUD @ TOP OF

WALL TYP.

F5-F/A 3 5/8" 22 GA. METAL STUDS @ 16" O.C., TYP 3 1/2" BATT INSULATION, TYP.

6" 22 GA. METAL STUDS @ 16" O.C., TYPE

PARTITION TYPE

<u>F6-F/A</u>

6" BATT INSULATION, TYP.

SCALE: 3" = 1'-0"

### PARTITION TYPES LEGEND

F-FURRING G-GYPSUM M-MASONRY PART'N MATERIAL

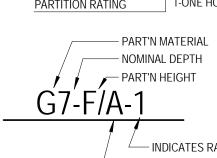
NOMINAL HEIGHT

\_\_\_\_ C-CONCRETE F-FULL HEIGHT TO STRUCTURE

P-PARTIAL HEIGHT ABOVE CEILING K-KNEEWALL BELOW CEILING C-PARTIAL HEIGHT TO CEILING

A-SOUND ATTENUATION OR BATT INSULATION

PARTITION RATING 1-ONE HOUR FIRE RATED



INDICATES RATED/NO. OF HOURS — INDICATES SOUND ATTENUATING INSULATION

#### **PARTITION NOTES:**

- 1. FLOOR PLAN DIMENSIONS FOR GYPSUM WALL BOARD PARTITIONS ARE TO FACE OF METAL STUD. (U.N.O.).
- 2. ALL INTERIOR GYPSUM WALL BOARD PARTITIONS TO BE G5-F/A (U.N.O.)
- 3. ALL PENETRATIONS AT NON-RATED WALLS ARE TO BE SEALED WITH ACOUSTICAL SEALANT UNLESS NOTED OTHERWISE (U.N.O.).

ABOVE @ 4'-0" O.C. MIN. OR MORE FREQUENTLY WHERE INDICATED.

- 4. ALL GYPSUM WALL BOARD TO BE TYPE "X" (U.N.O.). 5. WALL FINISHES PER FUTURE TENANT PLANS NOT IN THIS SET.
- 6. INTERIOR METAL STUD FRAMING EXTENDING TO ROOF DECK/STRUCTURE AND BRACING FROM ROOF STRUCTURE SHALL NOT BE INSTALLED UNTIL ROOF DEAD LOAD IS IN PLACE.
- 7. ALLOW FOR REQUIRED DEFLECTION AT ALL FULL HEIGHT WALLS. 8. ALL GYPSUM WALL BOARD PARTITIONS SHALL BE LATERALLY BRACED TO DECK / STRUCTURE
- 9. DIAGONAL WALL BRACING IS NOT REQUIRED AT INTERSECTION OF THE SAME HEIGHT WALLS. 10. PROVIDE CONTROL JOINTS IN ALL INTERIOR AND EXTERIOR GYPSUM BOARD WALLS THAT EXCEED 30 FEET IN LENGTH. CONTROL JOINTS SHALL BE SPACED NOT MORE THAN 30 FEET ON
- 11. PROVIDE CONTROL JOINTS IN ALL GYPSUM WALL BOARD FURRED ON CONCRETE TILT-UP PANELS @ ALL TILT-UP PANEL JOINT LOCATIONS.

CENTER U.N.O. WHERE POSSIBLE ALIGN CONTROL JOINT WITH DOOR FRAME.

12. CONCRETE TILT WALL PARTITIONS FULL HEIGHT MIN 6" IN DEPTH MEETING MIN. 1 HR RATING. 13. THROUGH WALL FIRE STOP PENETRATIONS THROUGH 1 HR RATED WALLS PER UL-WL5028 THROUGH FIRE STOP PENETRATIONS OR OTEHR APPROVED SYSTEM.

─ FLOOR, OR ROOF DECK

FINISHED CEILING MAY

OCCUR. REFER TO

REFLECTED CEILING

MIN. 6" 22 GA. METAL STUDS @ 16" O.C. TYP.

—— (1) LAYER 5/8" GYPSUM BOARD

- EXTERIOR WALL

R-19 BATT INSULATION



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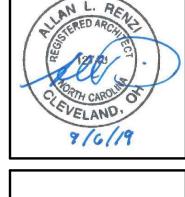




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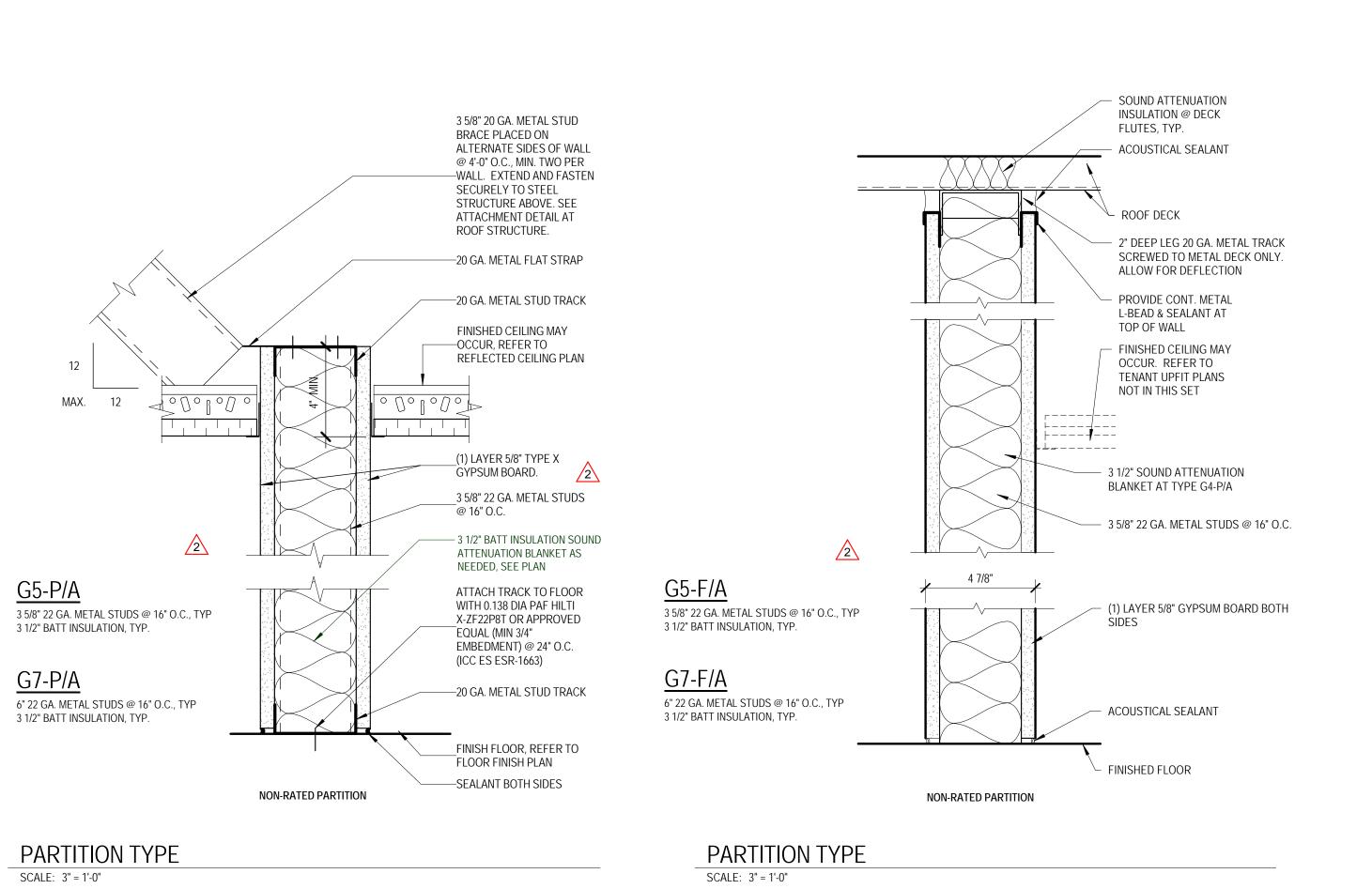
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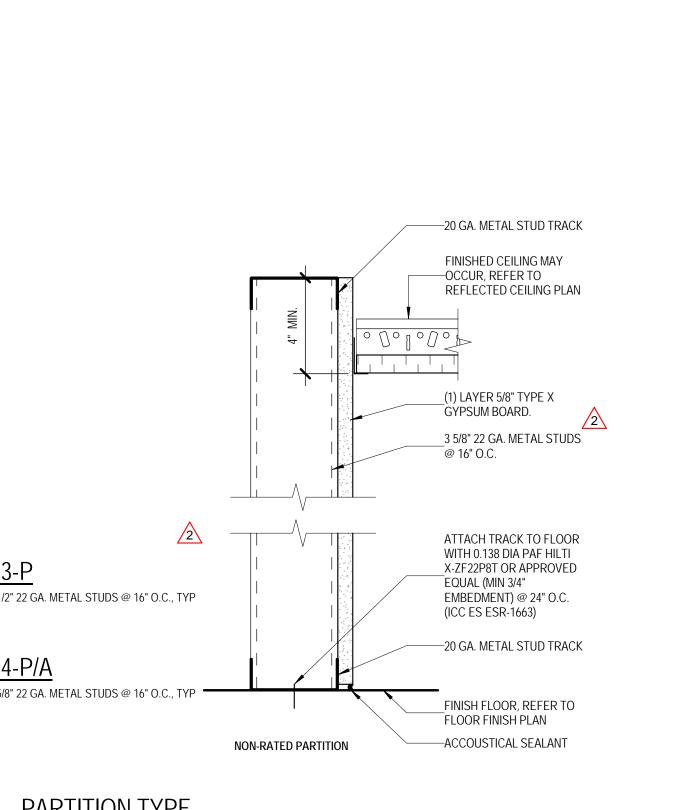
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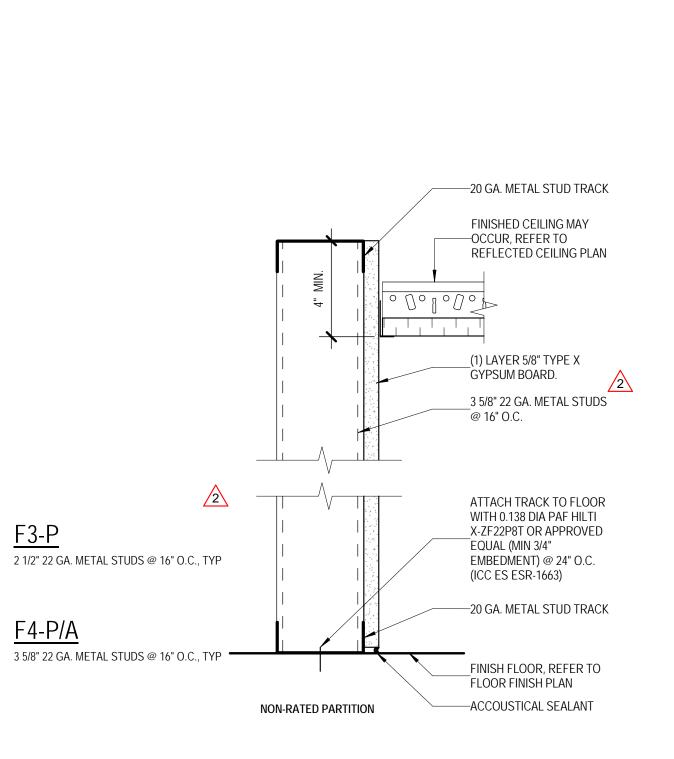


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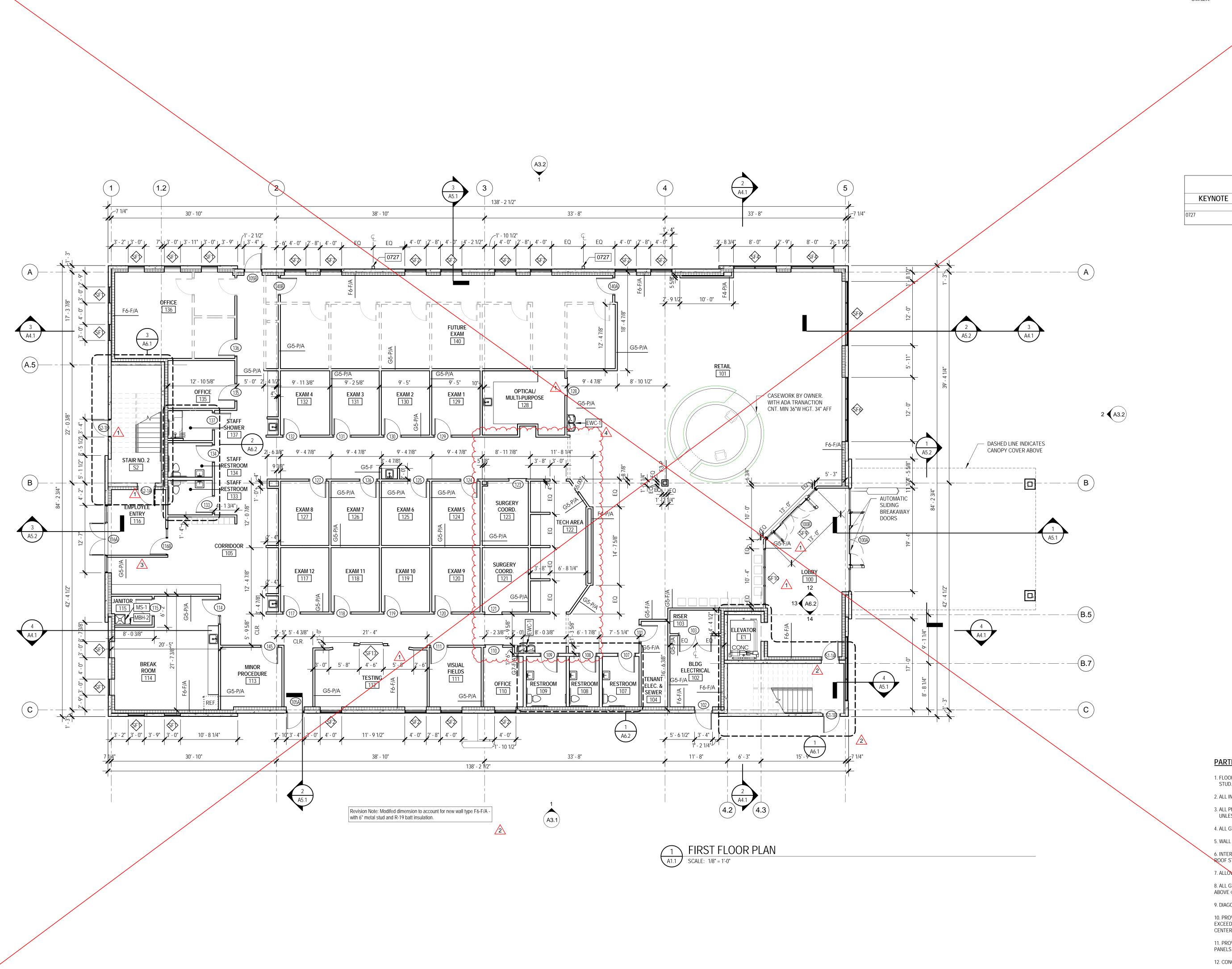
DRAWING NO.







PARTITION TYPE SCALE: 3" = 1'-0"



# **GENERAL NOTES - ARCHITECTURAL PLANS**

- 1. PLANS PROVIDED ARE FOR CORE AND SHELL PERMIT, TENANT UPFIT PLANS WILL BE SUBMITTED UNDER A SEPARATE COVER AND NOT INCLUDED IN THIS SET.
- 2. INTERIOR WALL METAL STUDS, INSULATION AND FINISHES AT EXTERIOR WALLS ARE BY FUTURE TENANT.
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- 6. CASEWORK BY OWNER SHALL MEET ALL ADA REQUIRMENTS. 7. ALL LINE WORK SHOWN HALF-TONE AND DASHED IS INTENDED FOR FUTURE AND SHALL BE PROVIDED BY

# KEYNOTE LEGEND DESCRIPTION 4" X 10" SCUPPER WITH PREFINISHED CONDUCTOR HEAD AND MINIMUM 6" SQUARE

DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAINAGE SYSTEM.

**3405 APEX PEAKWAY** APEX, NC 27502 TEL 1-919-362-5122

**DATES AND REVISIONS** . Date / Description 06/10/19 PERMIT SET

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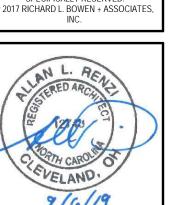
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**PARTITION TYPES LEGEND** 

G-GYPSUM

M-MASONRY

F-FULL HEIGHT TO STRUCTURE

C-PARTIAL HEIGHT TO CEILING

INDICATES RATED/NO. OF HOURS

— INDICATES SOUND ATTENUATING INSULATION

P-PARTIAL HEIGHT ABOVE CEILING K-KNEEWALL BELOW CEILING

A-SOUND ATTENUATION OR BATT INSULATION

PART'N MATERIAL C-CONCRETE

PARTITION RATING 1-ONE HOUR FIRE RATED

----- NOMINAL DEPTH PART'N HEIGHT

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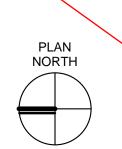
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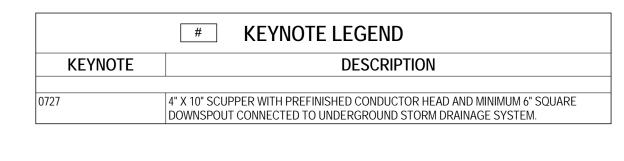




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DATES AND REVISIONS

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08/19/19 Bulletin 3

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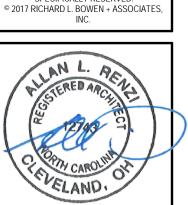
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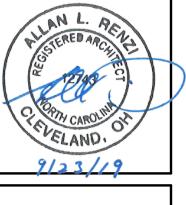
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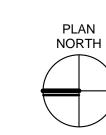
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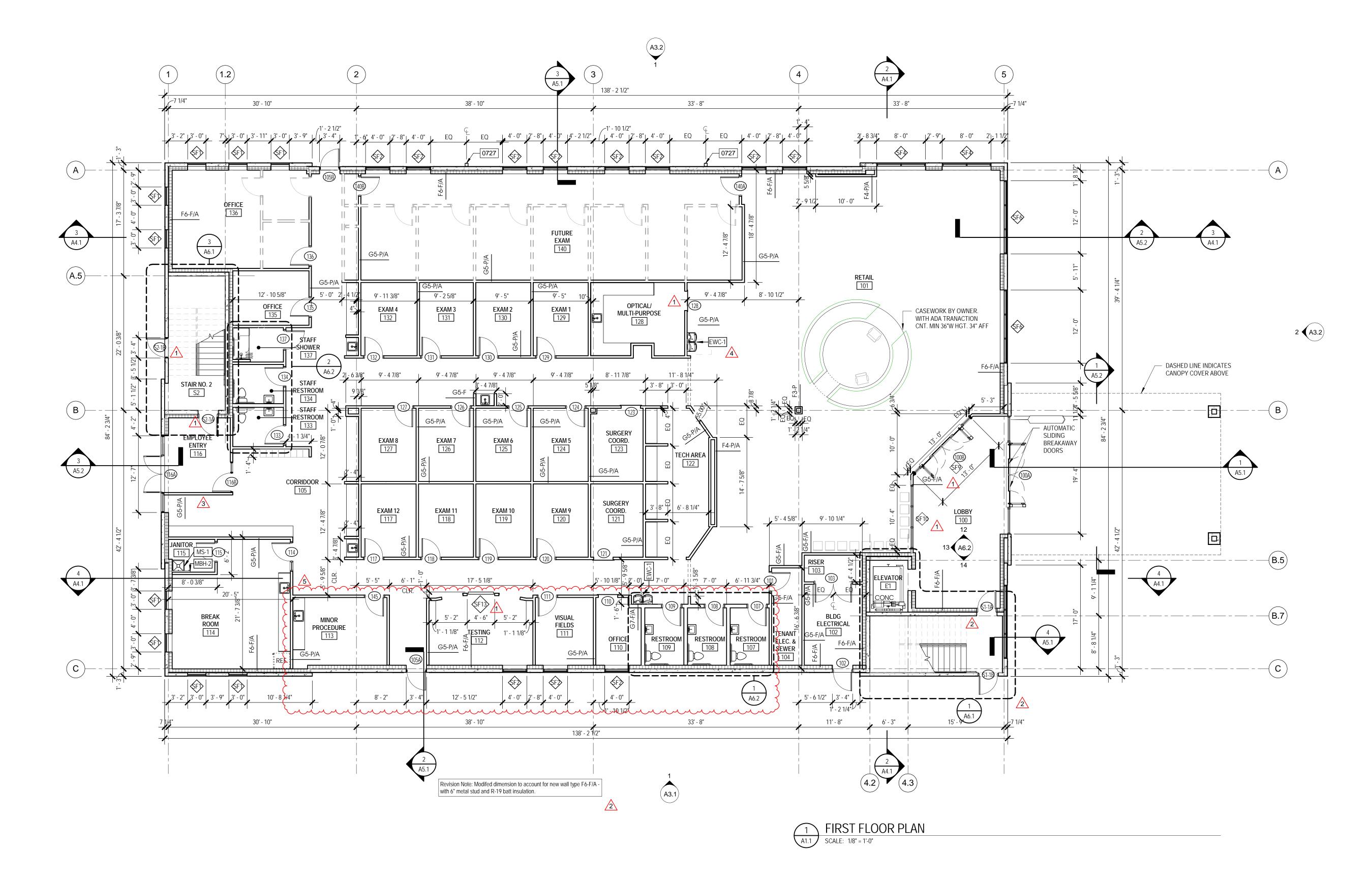
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NORTH

CHECKED BY:



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1 09/06/19 Bulletin 4

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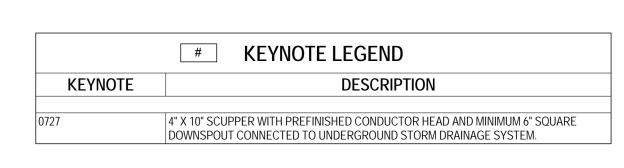
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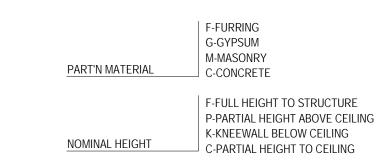
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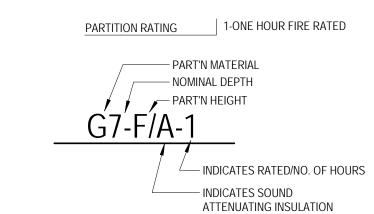




**PARTITION TYPES LEGEND** 



A-SOUND ATTENUATION OR BATT INSULATION



# <u>PARTITION NOTES:</u>

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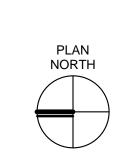
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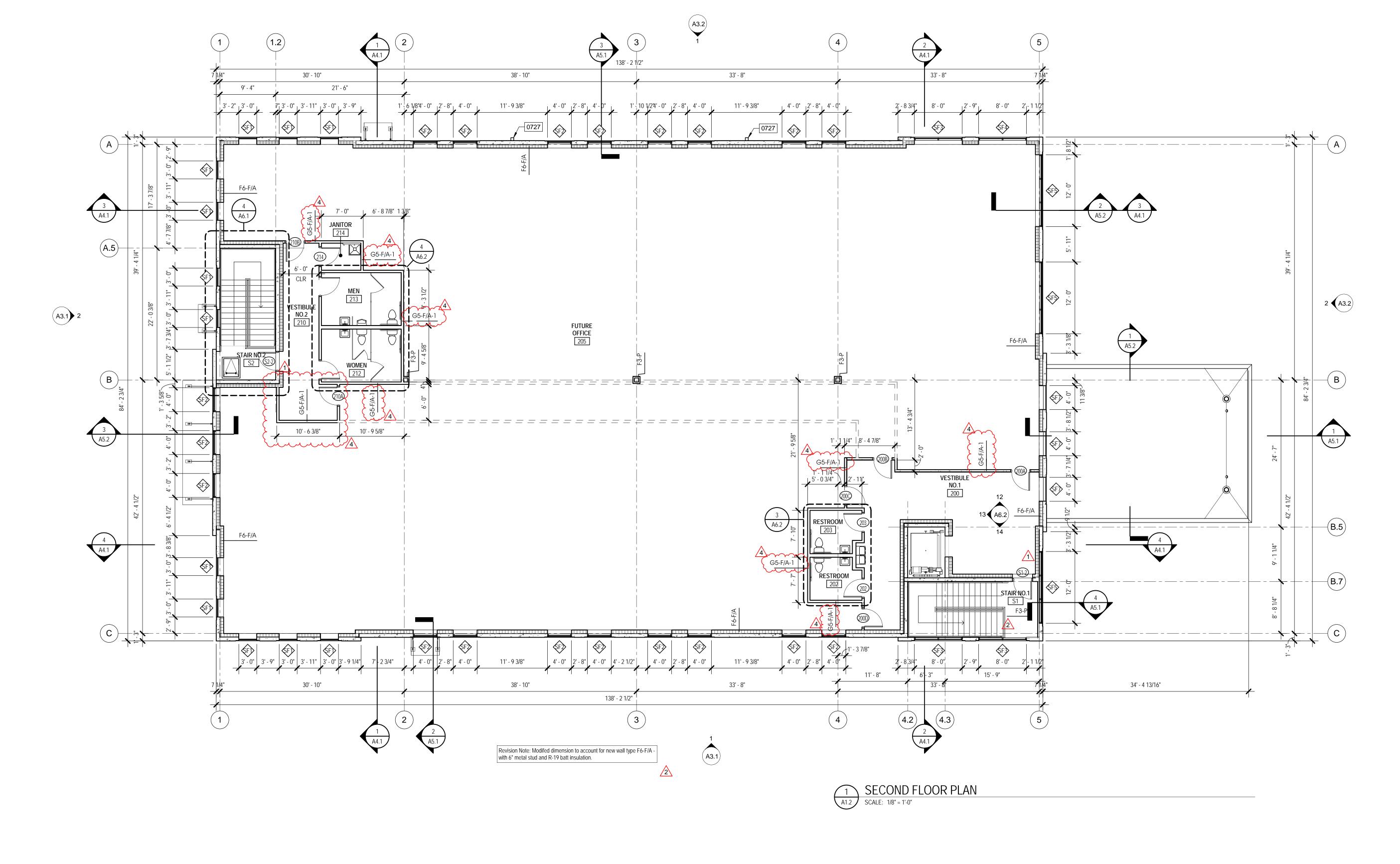
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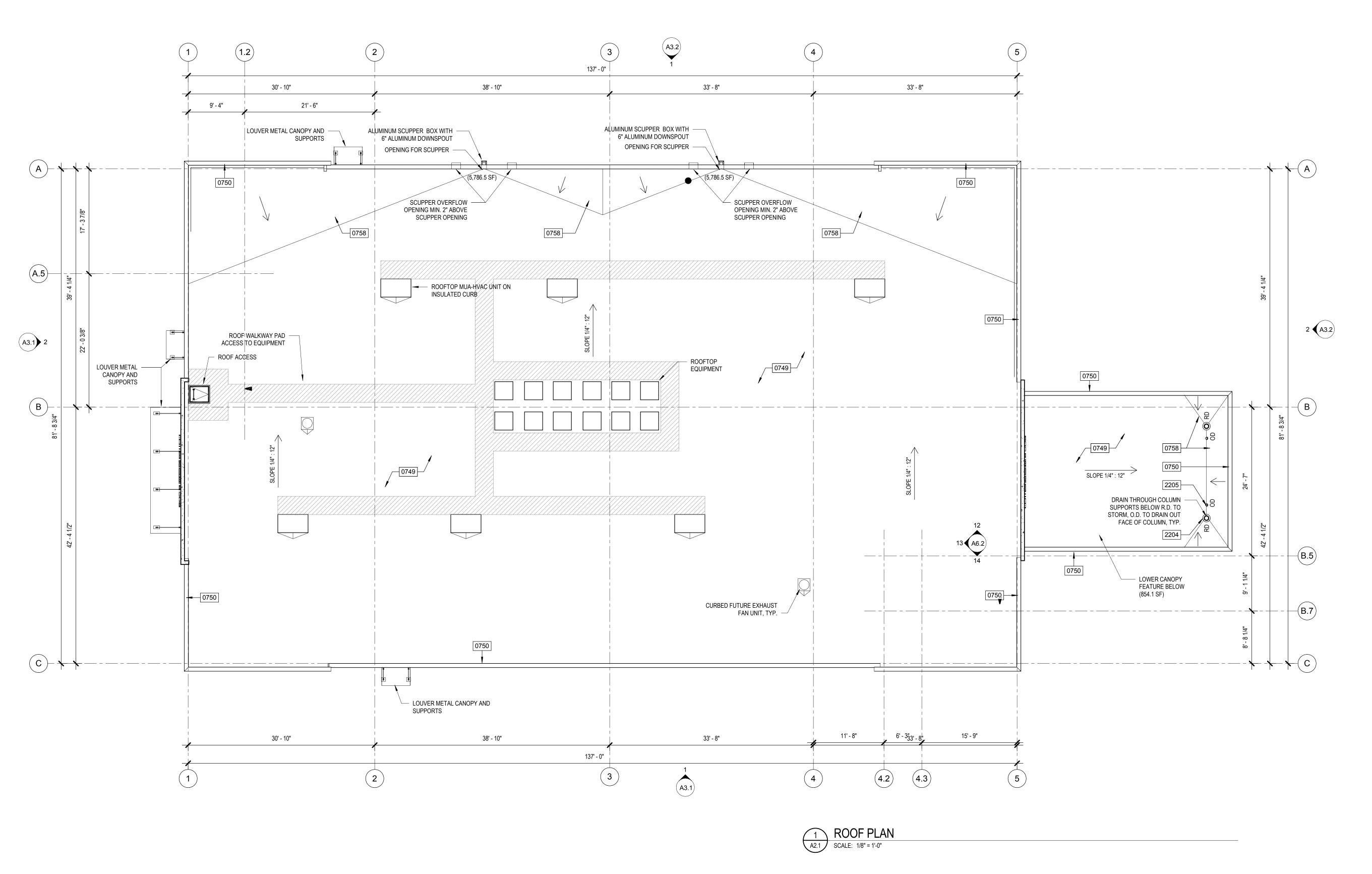
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CHECKED BY:





#### **GENERAL NOTES - ARCHITECTURAL ROOF PLAN**

- 1. DIMENSIONS FOR THE LOCATION OF THE ROOF TOP FUTURE UNITS ARE TO THE CENTER OF THE CURB OPENING. EXACT LOCATION CURB SIZES ARE TO BE COORDINATED WITH FINAL ROOF TOP FUTURE UNIT
- 2. PROVIDE PIPE FLASHING, CONDUIT FLASHING AND MANUFACTURED GAS PIPING SUPPORTS.
- CONTRACTOR SHALL KEEP ROOF CLEAN OF ALL DEBRIS DURING CONSTRUCTION WORK.
   REFER TO PLUMBING, MECHANICAL (FUTURE EQUIPMENT, PIPING, ACCESSORIES AND OTHERS NOT IN THIS SET) AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS REQUIRING ROOF FLASHING WORK. ALL ROOF PENETRATIONS FOR MINOR ROOF VENTS AND SIMILAR MAY NOT BE
- INDICATED ON THIS ROOF PLAN. ALL FLASHING WORK SHALL BE PROVIDED BY THE ROOFING CONTRACTOR PER ROOFING MFG RECOMMENDATIONS TO OBTAIN OR MAINTAIN ROOFING WARRANTIES.

  5. ALL CONCEALED WOOD NAILERS, WOOD BLOCKING AND WOOD FRAMING SHALL BE PRESERVATIVE
- TREATED MATERIALS IN COMPLIANCE WITH ROOFING MFG RECOMMENDATIONS.

  6. REFER TO PLUMBING DRAWINGS FOR ROOF DRAINS AND VENTS.
- 7. PROVIDE CONCRETE SPLASH BLOCK ON WEARING MEMBRANE PADS AT CONDENSATE DRAINS FOR FUTURE HVAC AND ACCU UNITS TYPICAL UNLESS NOTED OTHERWISE
- 8. BASIS OF DESIGN IS .60 MIL WHITE TPO MEMBRANE ROOF FULLY ADHERED SYSTEM BY FIRESTONE OR APPROVED EQUAL, ON (2) LAYERS OF 3.3" RIGID INSULATION TO OBTAIN A MIN. R VALUE OF R38 ON 22 GA.
- 9. ROOF RIGID INSULATION SHALL BE POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II, FELT OR GLASS-FIBER MAT FACER ON BOTH MAJOR SURFACES
- 10. ROOFING SYSTEM DESIGN: PROVIDE A MEMBRANE ROOFING SYSTEM THAT IS IDENTICAL TO SYSTEMS THAT HAVE BEEN SUCCESSFULLY TESTED BY A QUALIFIED TESTING AND INSPECTING AGENCY TO RESIST UPLIFT PRESSURE CALCULATED ACCORDING TO ASCE / SEI 7. ROOF SYSTEM SHALL BE TESTED IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897.REFER TO STRUCTURAL DRAWING FOR WIND DESIGN REQUIREMENTS, ROOF COMPONENTS, AND CLADDING. FOLLOW ALL MANUFACTURER'S ROOFING INSTALLATION INSTRUCTIONS TO PROVIDE A COMPLETE WEATHER TIGHT ROOF MEMBRANE SYSTEM
- 11. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- 12. REFER TO TYPICAL ROOF DETAILS, SHEET A2.2.
- 13. PROVIDE VAPOR BARRIER BETWEEN STEEL DECK AND INSULATION AS RECOMMENDED BY ROOFING MANUFACTURER FOR ROOF ASSEMBLY.
- 14. COMPLY WITH SHEET METAL STANDARDS FOR FLASHING AND TRIM: "THE NRCA ROOFING MANUAL" AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" FOLLOW REQUIREMENTS FOR DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. MANUFACTURE AND INSTALL COPINGS TESTED ACCORDING TO SPRI ES-1 AND CAPABLE OF RESISTING WIND DESIGN PRESSURES AS INDICATED ON STRUCTURAL DRAWINGS.

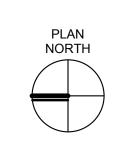
# KEYNOTE LEGEND					
KEYNOTE	DESCRIPTION				
0749	FULLY ADHERED MEMBRANE ROOF ON MIN. 1/2" ROOF COVER BOARD "DENSDECK" FASTENED TO STEEL DECK.				
0750	PREFINISHED .032 ALUMINUM FASCIA COPING TYP. WITH 5-1/2" PROFILE. REFER TO ELEVATIONS FOR COLOR SELECTION, TYP.				
0758	TAPERED ROOF INSULATION CRICKET, MINIMUM SLOPE 1/2" PER FOOT.				
2204	ROOF DRAIN AND OVERFLOW WITH RAIN WATER CONDUCTOR; REFER TO PLUMBING DRAWINGS.				
2205	ROOF OVERELOW DRAIN: REFER TO PLUMBING DRAWINGS				

ROOF LEGEND



TYPICAL ROOF WALKWAY PAD.





DATES AND REVISIONS

No. Date / Description

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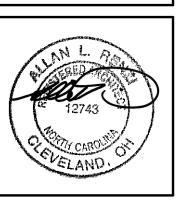
SOUTHEASTERN CONSTRUCTION





RICHARD L. BOWEN
+ ASSOCIATES INC.
13000 Shaker Boulevard / Cleveland, Ohio 44120
Phone: (216) 491-9300 Fax: (216) 491-8053
www.rlba.com - email@rlba.com

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TON EYE CLINIC AL PARK DRIVE IN, NC 28403

1729 MEDICAL PA WILMINGTON, NC

DRAWN BY:

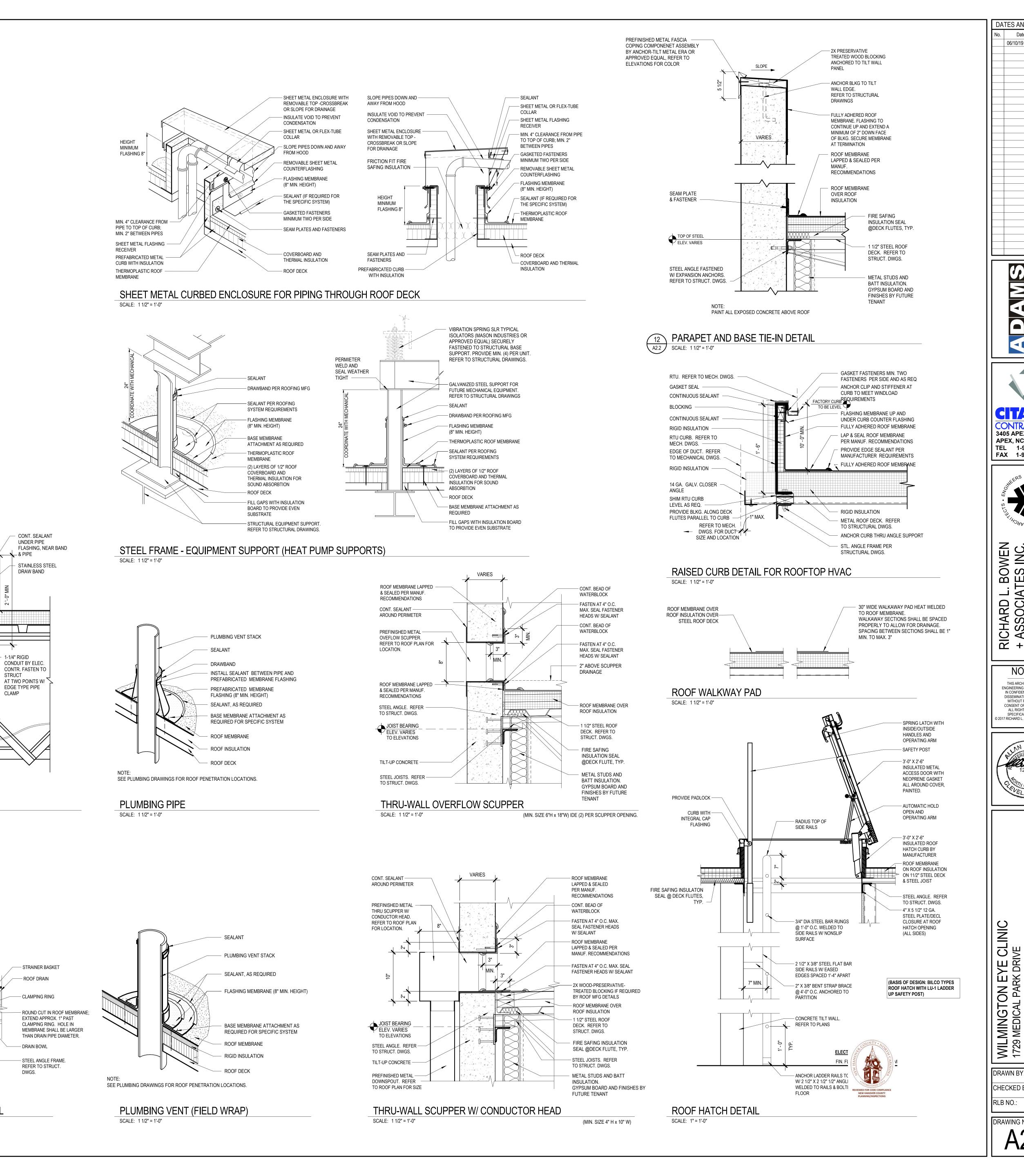
CB/JB

CHECKED BY:

MW

RLB NO.:

8988



DATA OR ELECTRICAL

ELECTRIC DRAWINGS

PREFABRICATED PIPE FLASHING

ELECTRIC, DATA

REFER TO ELECT

COORDINATE WITH FUTURE TENANT PLAN.

AND CABLE.

DRAWINGS.

WEATHERHEAD FOR DATA/ELEC

ROOF MEMBRANE ON ———

METAL DECK

ROOF INSULATION ON

NOTE:
INSTALL COMPATIBLE SEALANT BETWEEN DRAIN BOWL FLANGE AND ROOF MEMBRANE

**ROOF DRAIN & OVERFLOW DRAIN DETAIL** 

1-1/4" RIGID

EDGE TYPE PIPE

CABLE. REFER TO

WEATHERHEAD

SCALE: 1 1/2" = 1'-0"

STRAINER BASKET -

24" X 24" SUMP

OVER FLOW DRAIN W/ -

RECEIVER. SET DRAIN 2"

2" HIGH WATER DAM CLAMPING -

ROUND CUT IN ROOF MEMBRANE;

EXTEND APPROX. 1" PAST

CLAMPING RING. HOLE IN

DRAIN BOWL -

SCALE: 1 1/2" = 1'-0"

TO STRUCT. DWGS. -

MEMBRANE SHALL BE LARGER THAN DRAIN PIPE DIAMETER.

STEEL ANGLE FRAME. REFER

ABOVE ROOF DRAIN.

DRAWING NO.

WILMINGTON E 1729 MEDICAL PARK WILMINGTON, NC 28

DRAWN BY:

CHECKED BY:

RLB NO.:

DATES AND REVISIONS Date / Description

06/10/19 PERMIT SET

**3405 APEX PEAKWAY** 

APEX, NC 27502

TEL 1-919-362-5122

FAX 1-919-362-6910

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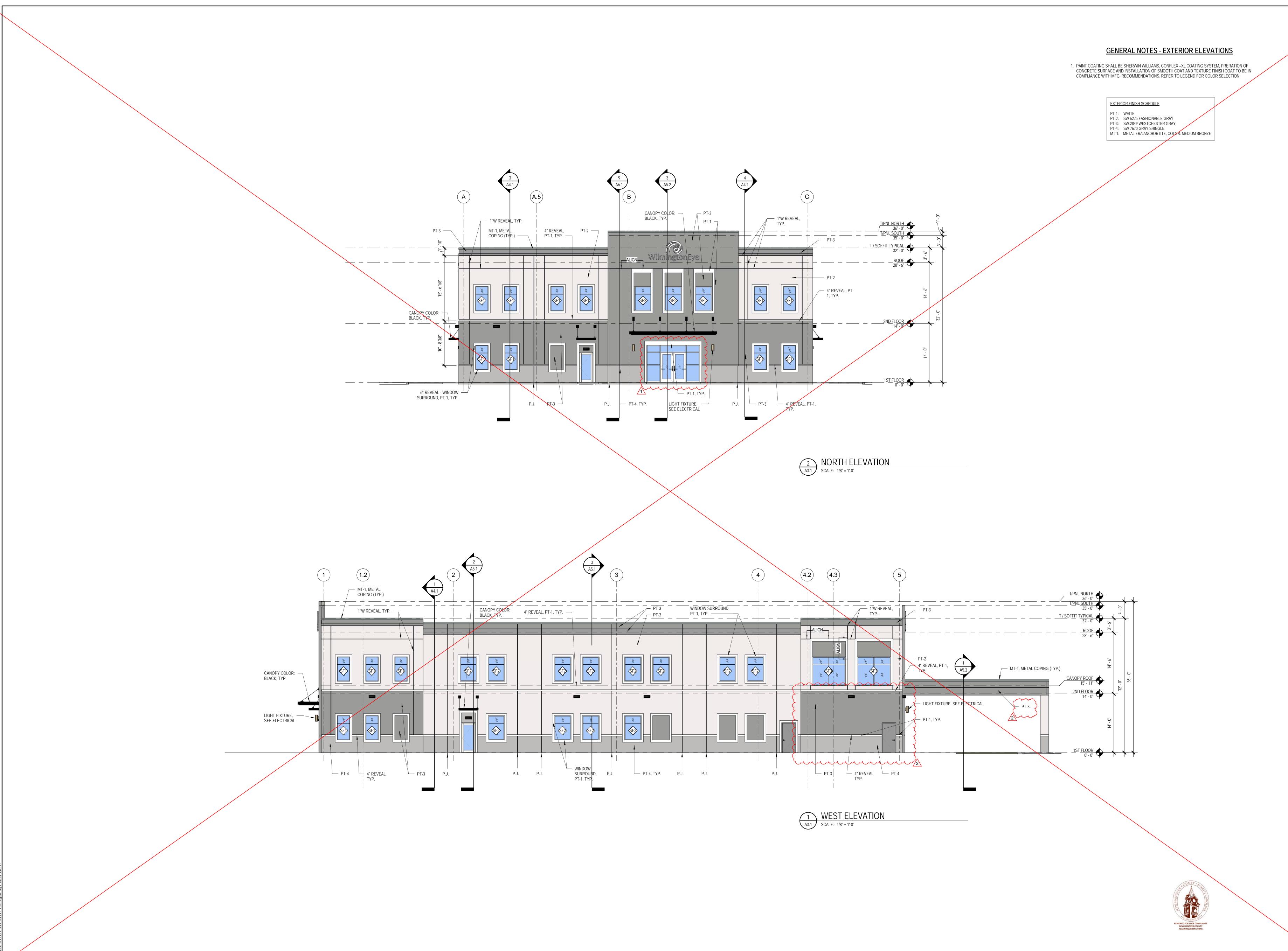
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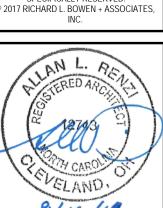
08/07/19 Bulletin 1 08/16/19 Bulletin 2







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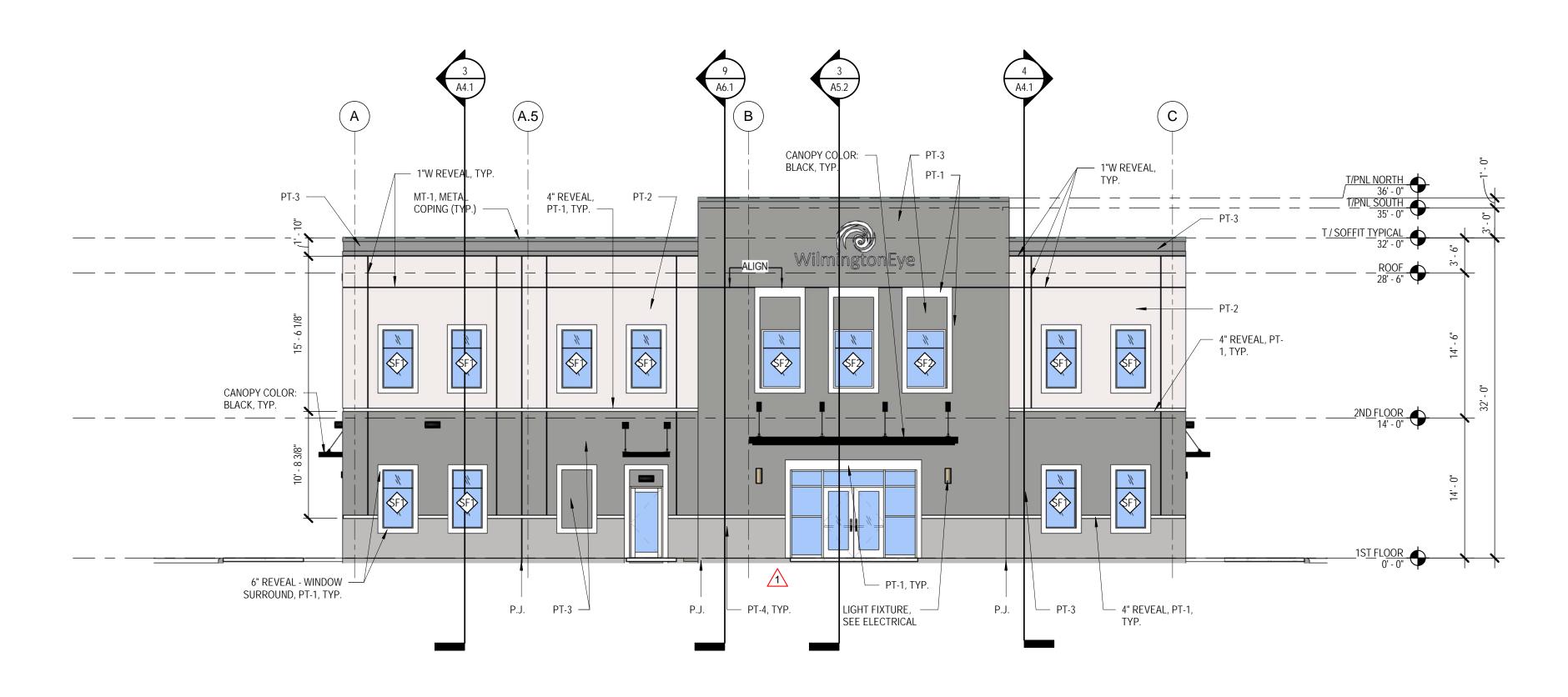
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# **GENERAL NOTES - EXTERIOR ELEVATIONS**

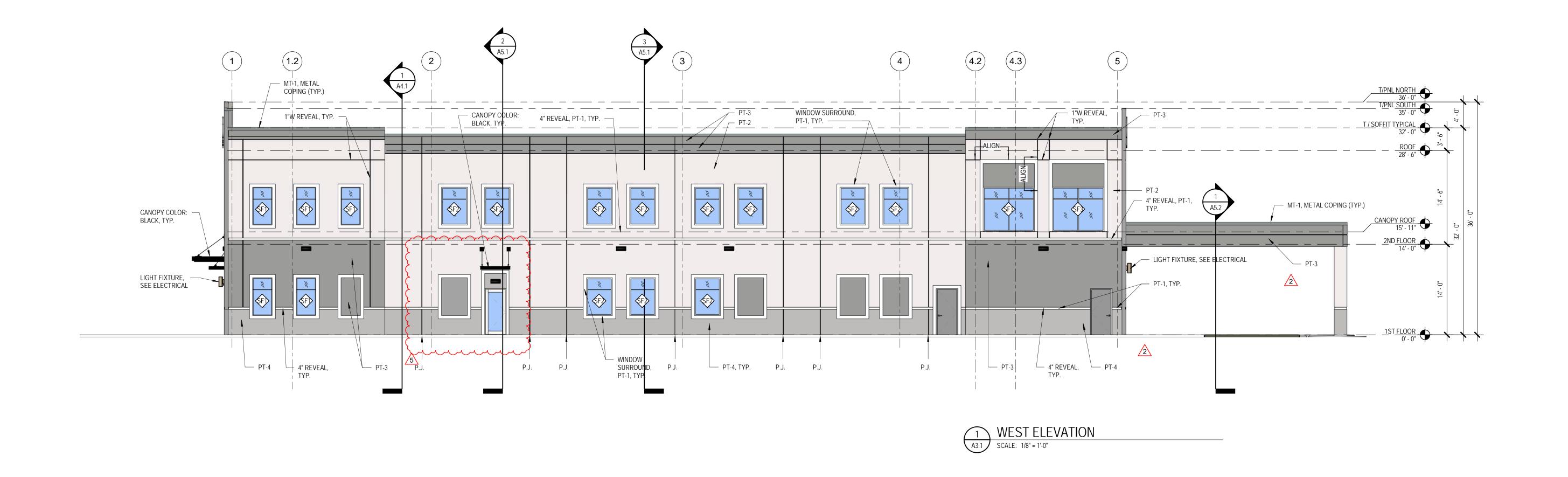
PAINT COATING SHALL BE SHERWIN WILLIAMS, CONFLEX –XL COATING SYSTEM, PRERATION OF CONCRETE SURFACE AND INSTALLATION OF SMOOTH COAT AND TEXTURE FINISH COAT TO BE IN COMPLIANCE WITH MFG. RECOMMENDATIONS. REFER TO LEGEND FOR COLOR SELECTION.

EXTERIOR FINISH SCHEDULE

PT-1: WHITE
PT-2: SW 6275 FASHIONABLE GRAY
PT-3: SW 2849 WESTCHESTER GRAY
PT-4: SW 7670 GRAY SHINGLE MT-1: METAL ERA ANCHORTITE, COLOR: MEDIUM BRONZE



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

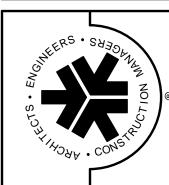


Date / Description 06/10/19 PERMIT SET 08/07/19 Bulletin 1

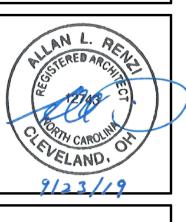
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EXTERIOR FINISH SCHEDULE

PT-2: SW 6275 FASHIONABLE GRAY PT-3: SW 2849 WESTCHESTER GRAY PT-4: SW 7670 GRAY SHINGLE

MT-1: METAL ERA ANCHORTITE, COLOR: MEDIUM BRONZE

# KEYNOTE LEGEND KEYNOTE

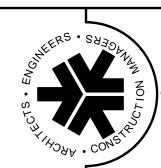
DESCRIPTION

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08/07/19 Bulletin 1 08/16/19 Bulletin 2

Date / Description 06/10/19 PERMIT SET

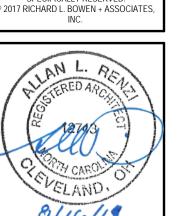


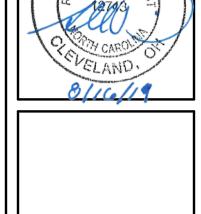


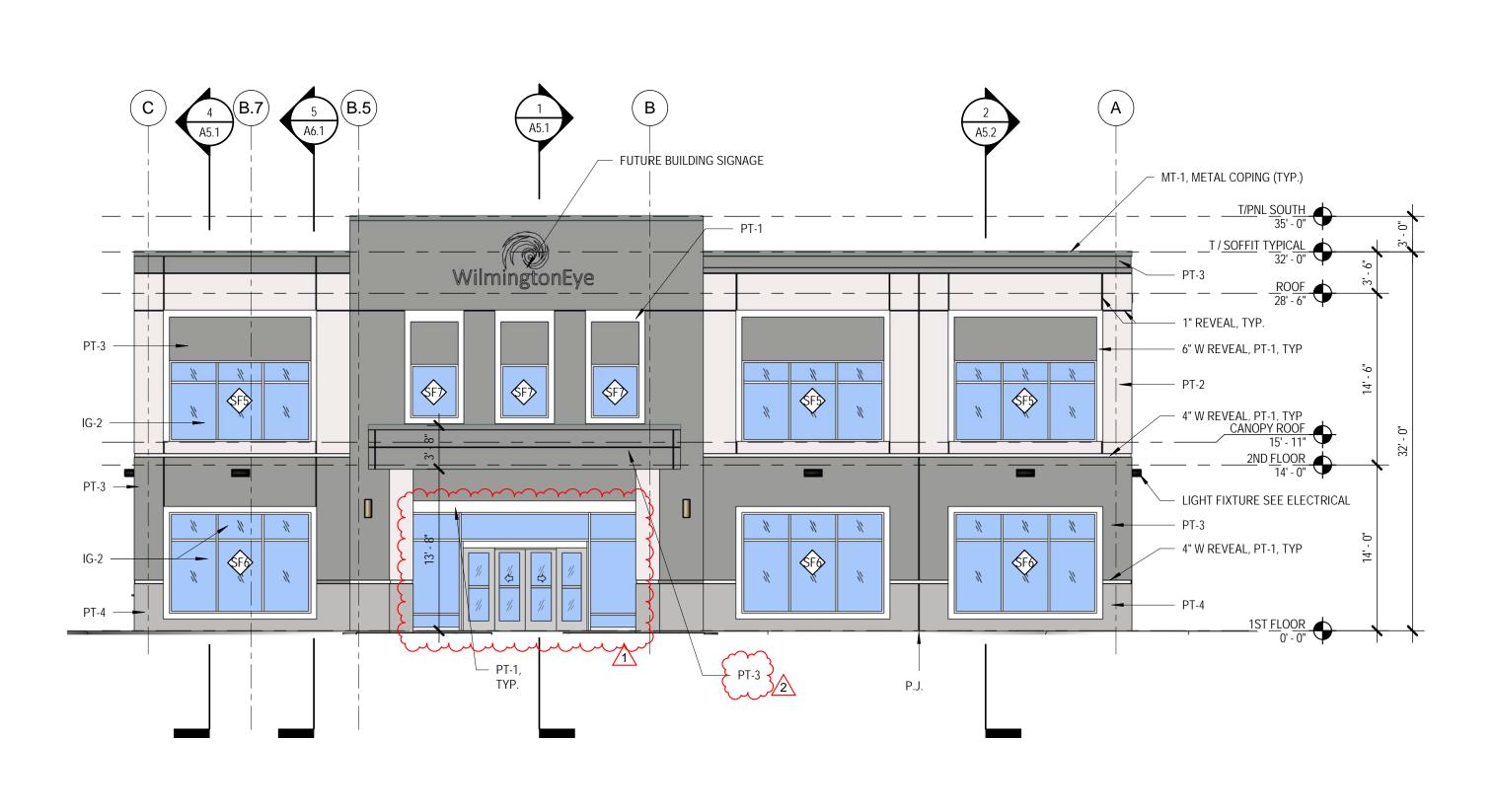
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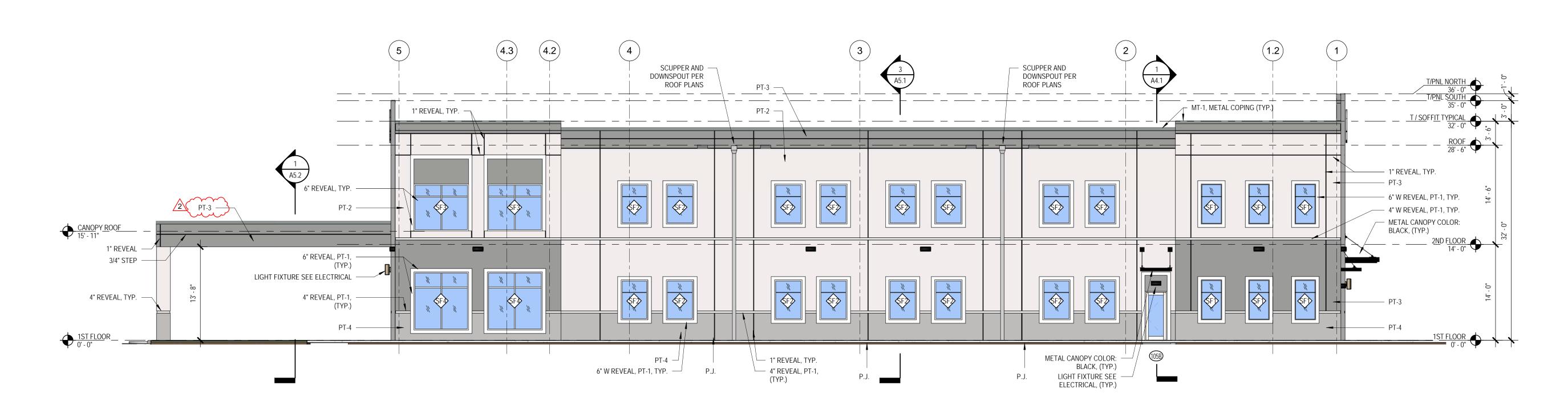






SOUTH ELEVATION

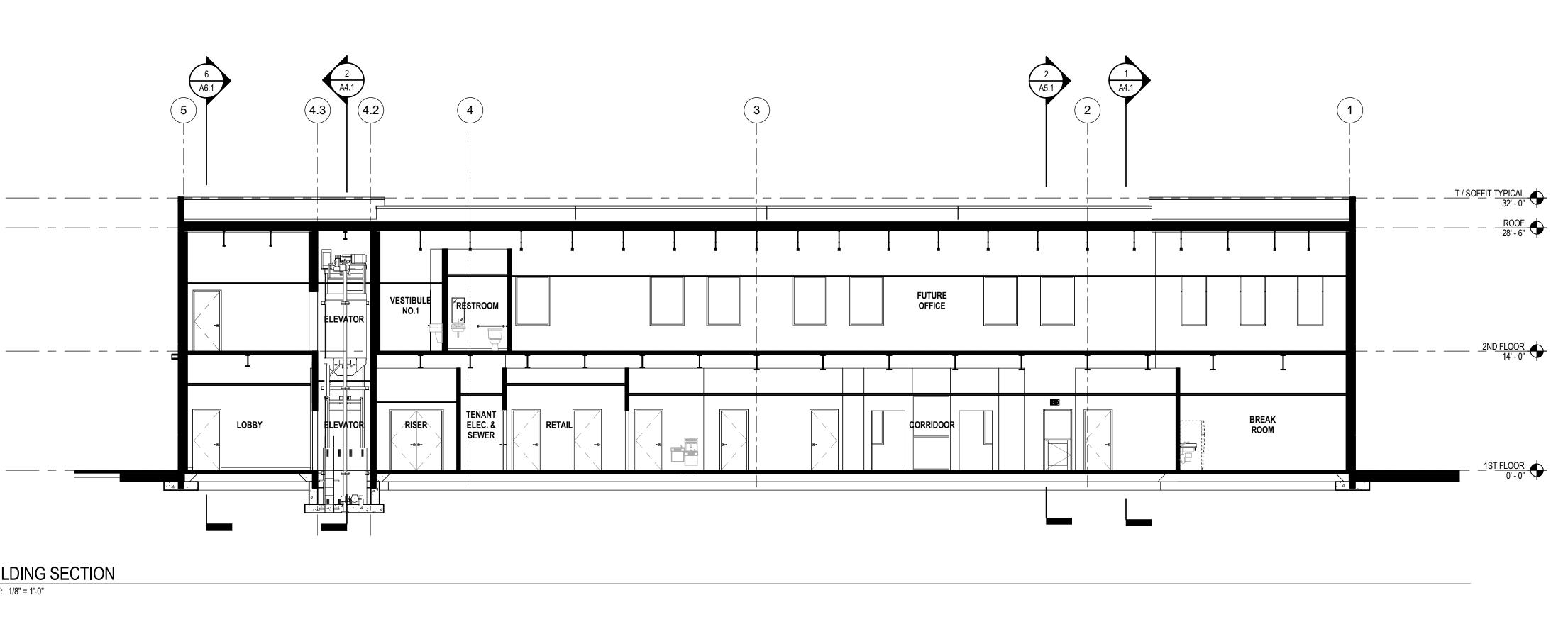
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1 EAST ELEVATION

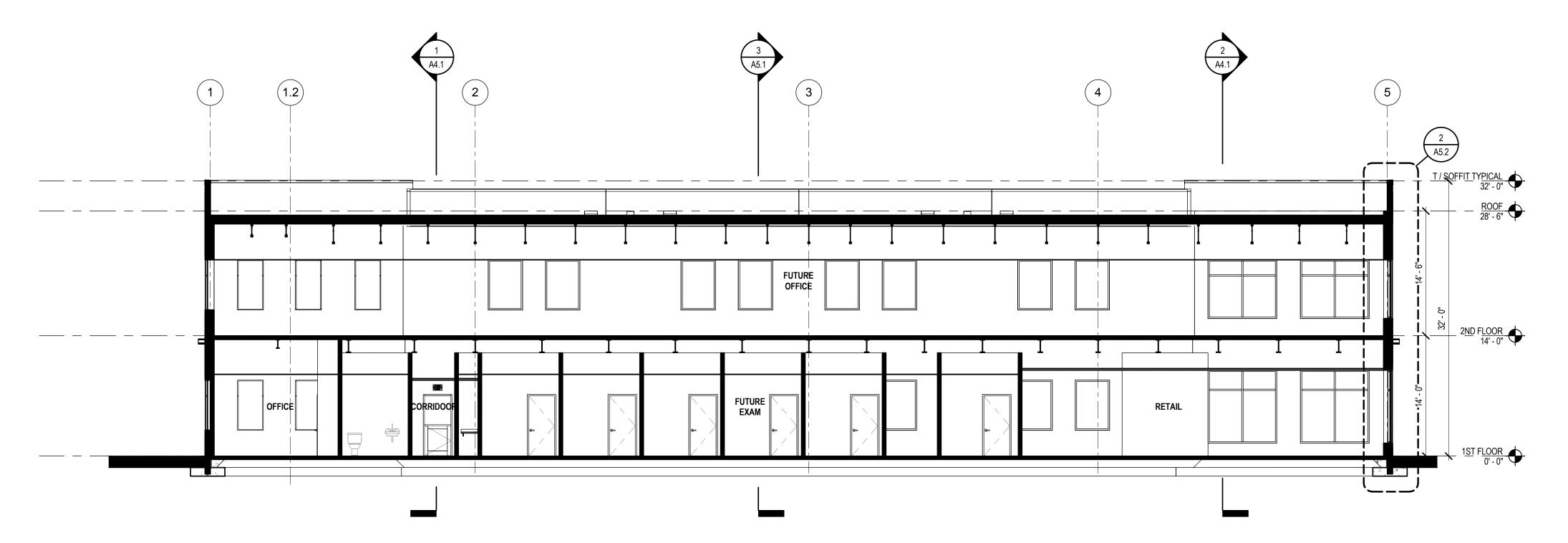
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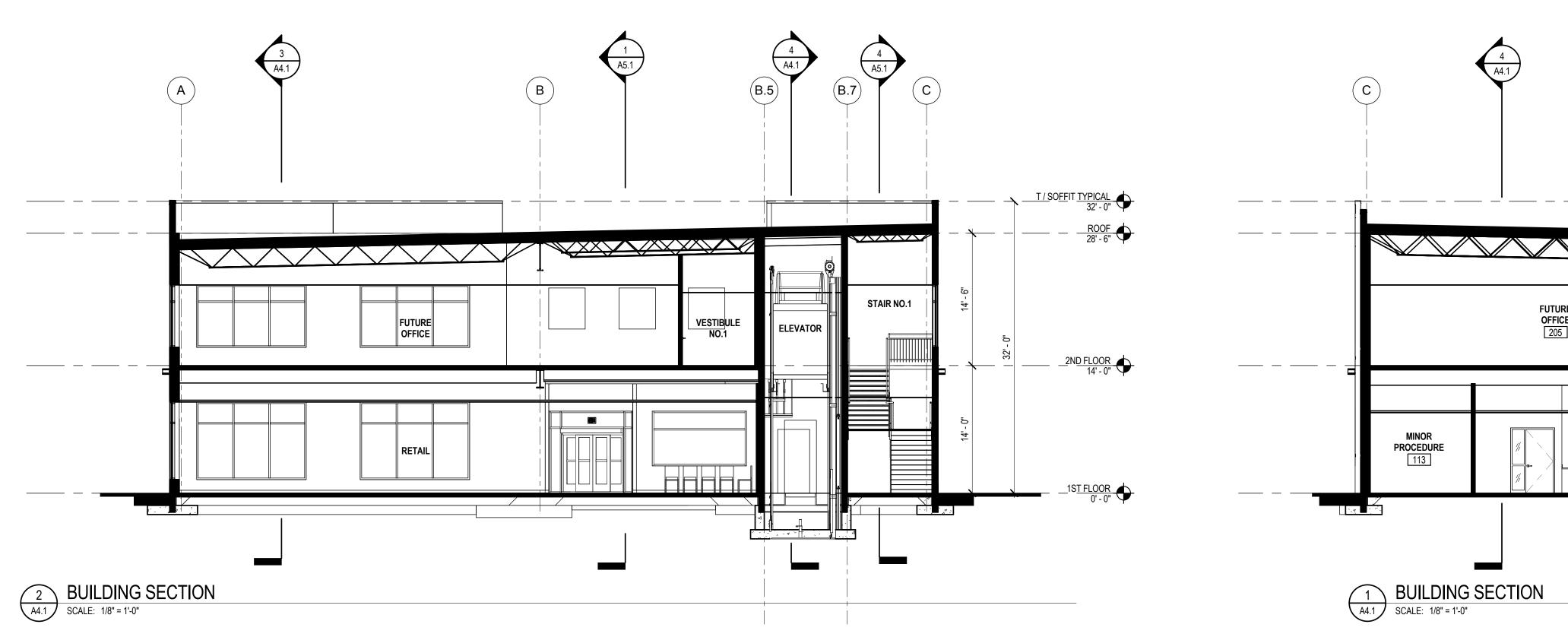
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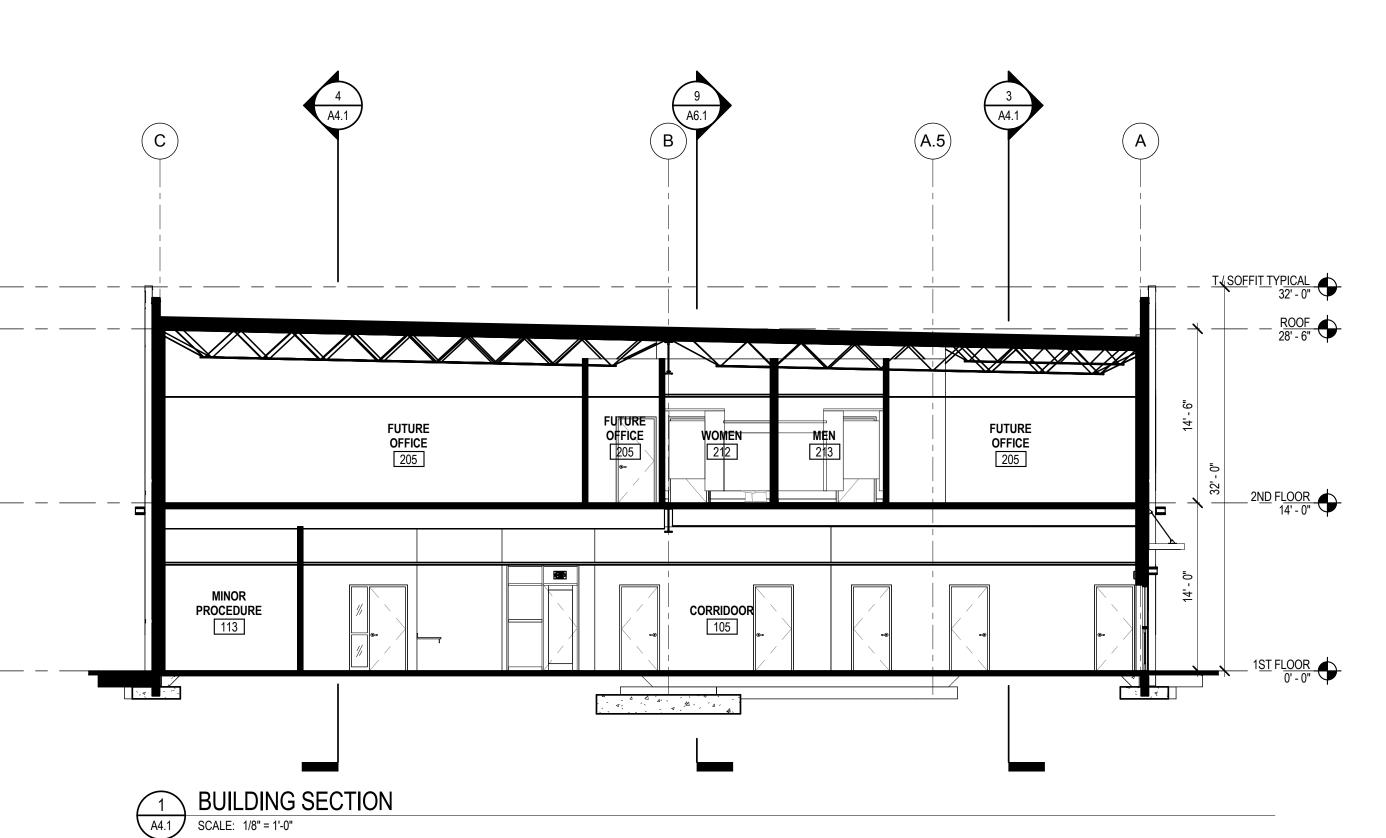
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BUILDING SECTION

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







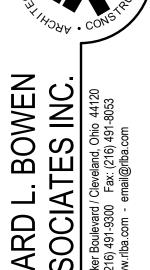


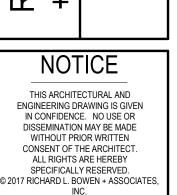
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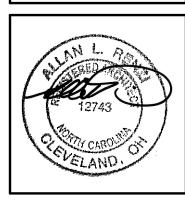
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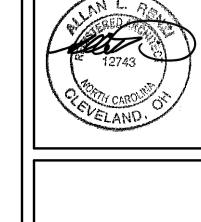




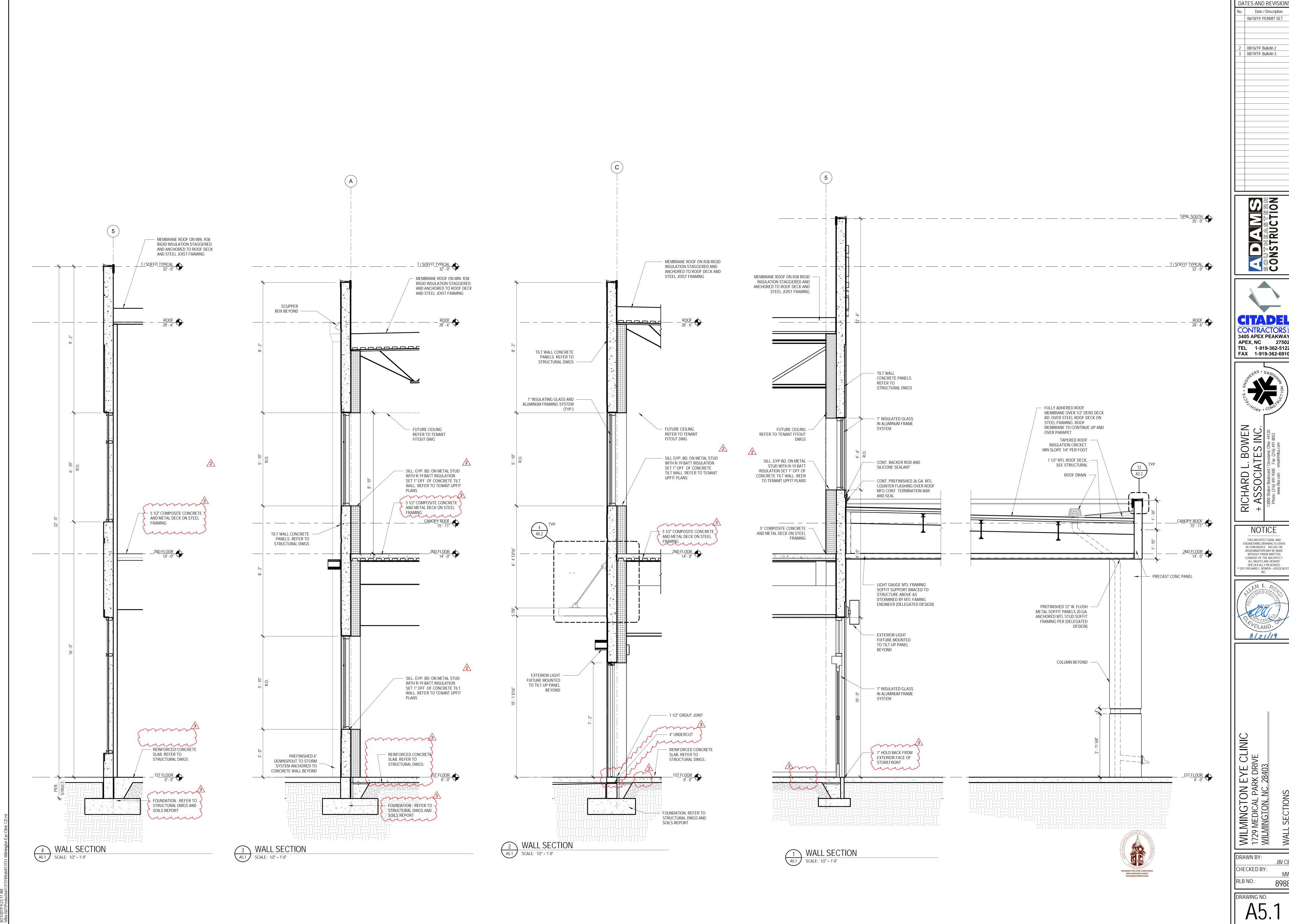


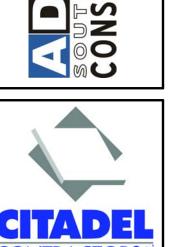




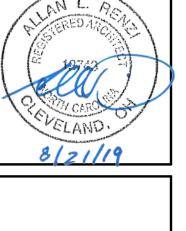


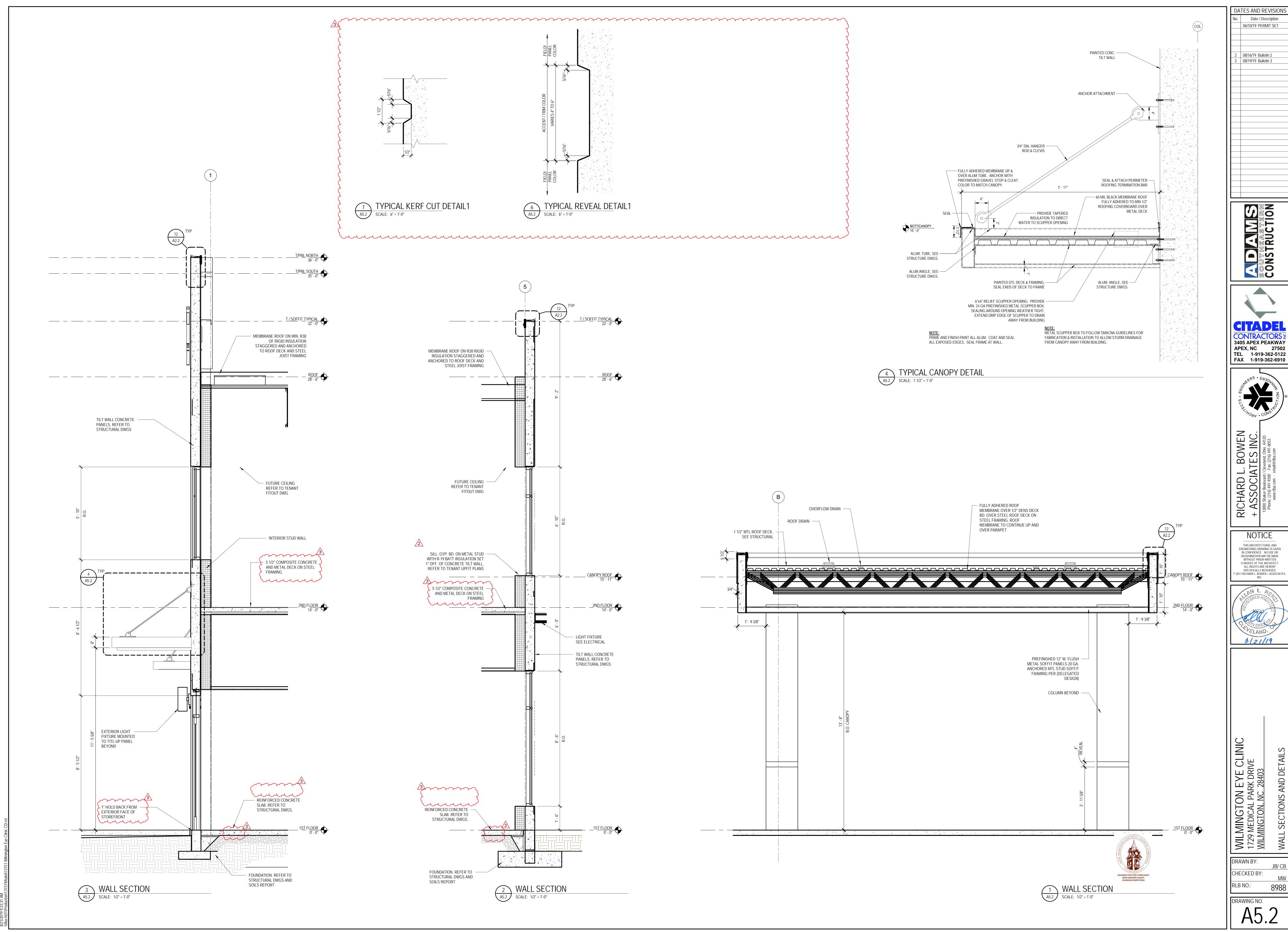
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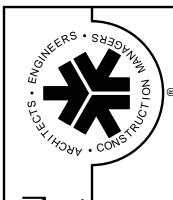




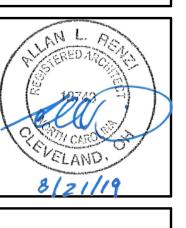


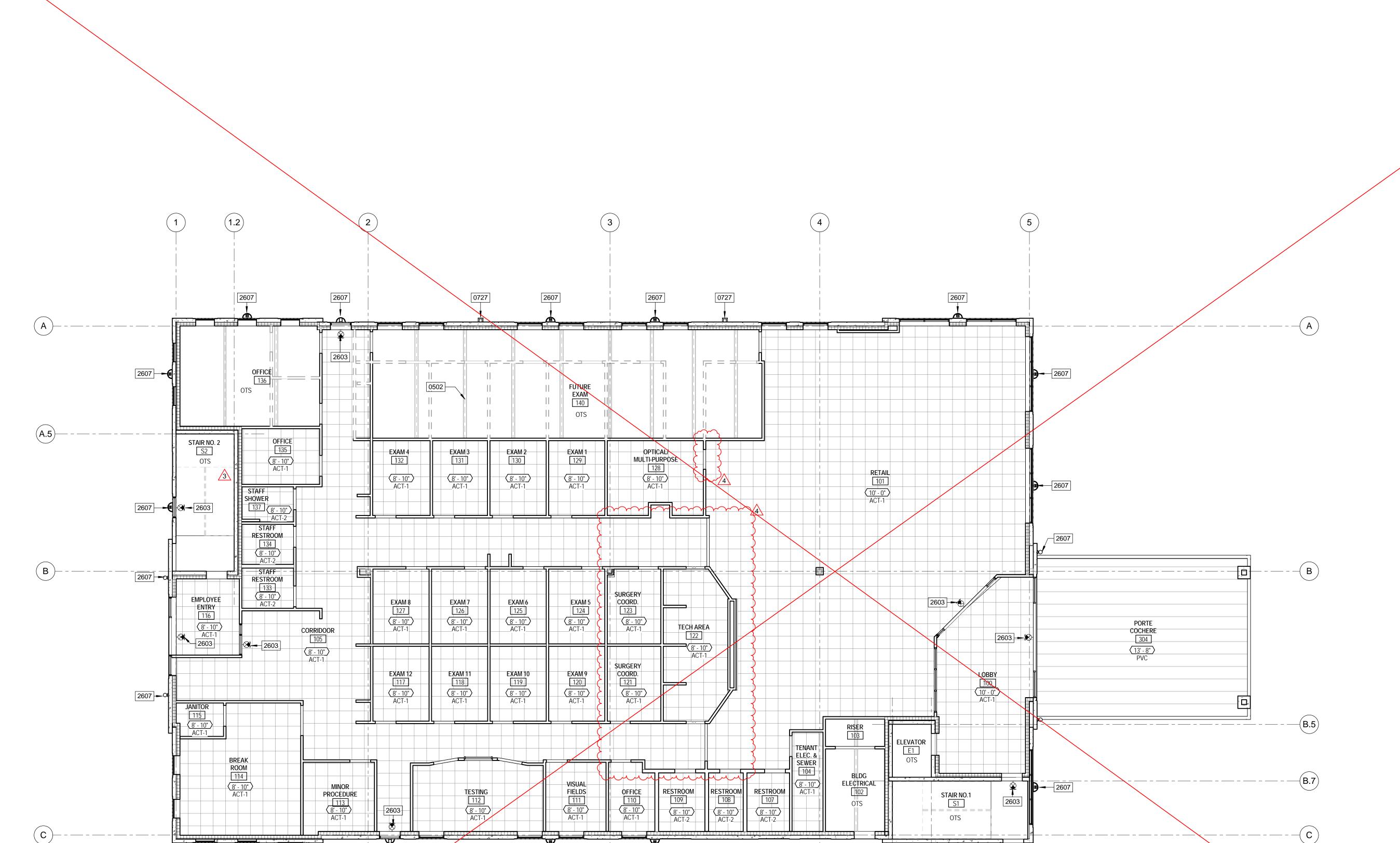
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4.2

4.3

5

FIRST FLOOR REFLECTED CEILING PLAN

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

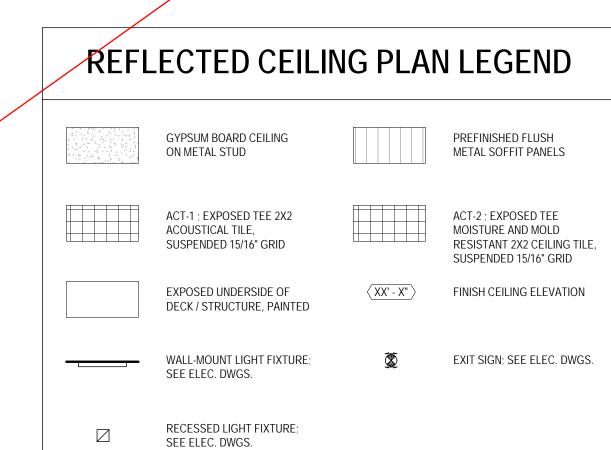
**GENERAL NOTES - ARCHITECTURAL RCP** 

1. PROVIDE FIRESTOPPING AT TOP OF FIRE-RATED PARTITIONS AND SHAFT WALLS.

2. REFER TO SHEET AS1.1 FOR EXTENT OF SPRAY-APPLIED FIREPROOFING. 3. UNDERSIDE OF EXPOSED STRUCTURE AND DECK AT STAIRS, ELECTRIC/DATA ROOMS, AND RISER ROOM

TO BE PAINTED 'WHITE.' 4. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURES REQUIRED IN ELEVATOR HOISTWAY'S AND PITS. 5. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURES IN TENANT AREAS.

# KEYNOTE LEGEND				
KEYNOTE	DESCRIPTION			
0502	STEEL FRAMING. REFER TO STRUCTURAL DRAWINGS.			
0727	4" X 10" SCUPPER WITH PREFINISHED CONDUCTOR HEAD AND MINIMUM 6" SQUARE DOWNSPOUT COMMECTED TO UNDERGROUND STORM DRAINAGE SYSTEM.			
2603	EXIT SIGN; REFER TO ELECTRICAL DRAWINGS			
2607	EXTERIOR WALL MOUNTED LIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS.			

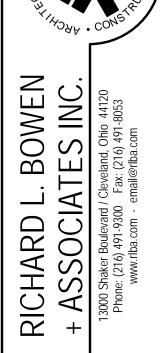


DATES AND REVISIONS Date / Description 06/10/19 PERMIT SET

08/19/19 Bulletin 3 09/06/19 Bulletin 4

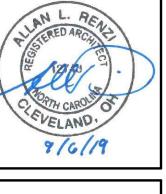


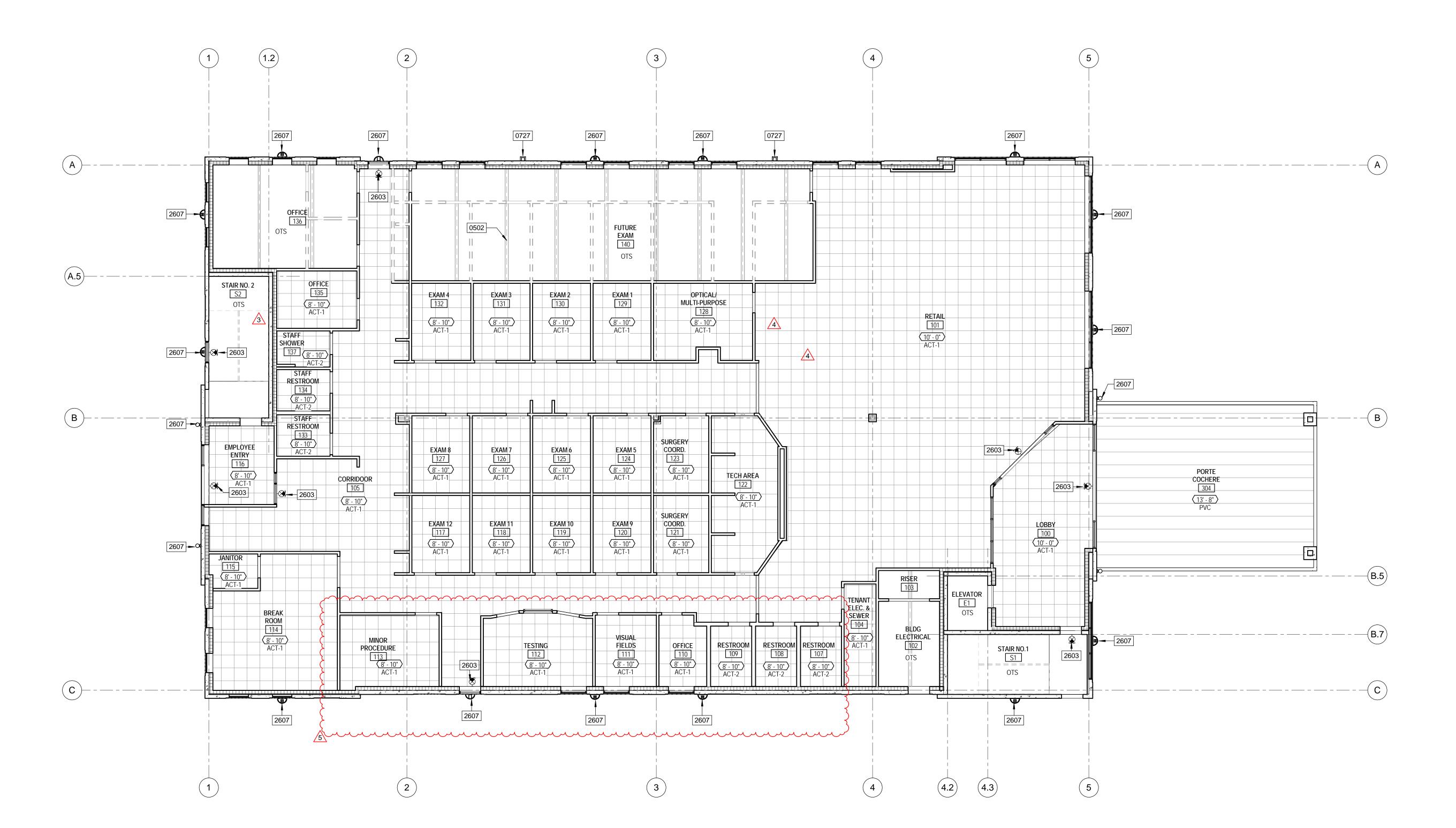




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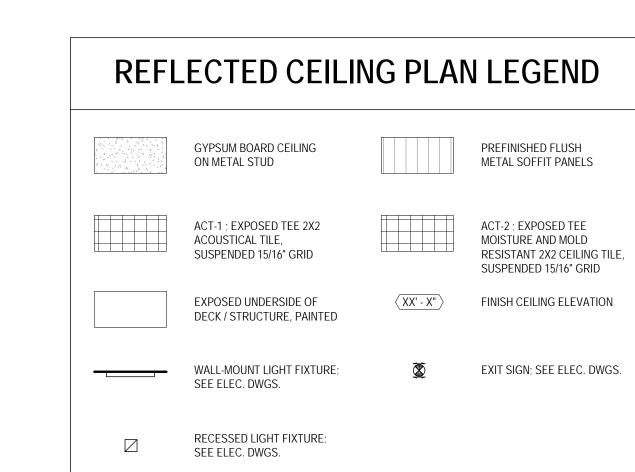
FIRST FLOOR REFLECTED CEILING PLAN

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

#### **GENERAL NOTES - ARCHITECTURAL RCP**

- 1. PROVIDE FIRESTOPPING AT TOP OF FIRE-RATED PARTITIONS AND SHAFT WALLS.
- 2. REFER TO SHEET AS1.1 FOR EXTENT OF SPRAY-APPLIED FIREPROOFING.
- 3. UNDERSIDE OF EXPOSED STRUCTURE AND DECK AT STAIRS, ELECTRIC/DATA ROOMS, AND RISER ROOM TO BE PAINTED 'WHITE.'
- 4. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURES REQUIRED IN ELEVATOR HOISTWAYS AND PITS. 5. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURES IN TENANT AREAS.

# KEYNOTE LEGEND					
KEYNOTE	DESCRIPTION				
0502	STEEL FRAMING. REFER TO STRUCTURAL DRAWINGS.				
0727	4" X 10" SCUPPER WITH PREFINISHED CONDUCTOR HEAD AND MINIMUM 6" SQUARE DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAINAGE SYSTEM.				
2603	EXIT SIGN; REFER TO ELECTRICAL DRAWINGS				
2607	EXTERIOR WALL MOUNTED LIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS.				



06/10/19 PERMIT SET 08/19/19 Bulletin 3 09/06/19 Bulletin 4

5 09/18/19 Bulletin 5

DATES AND REVISIONS

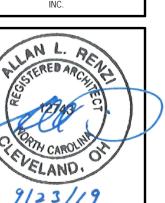
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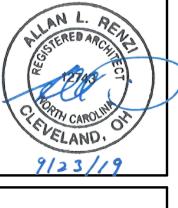


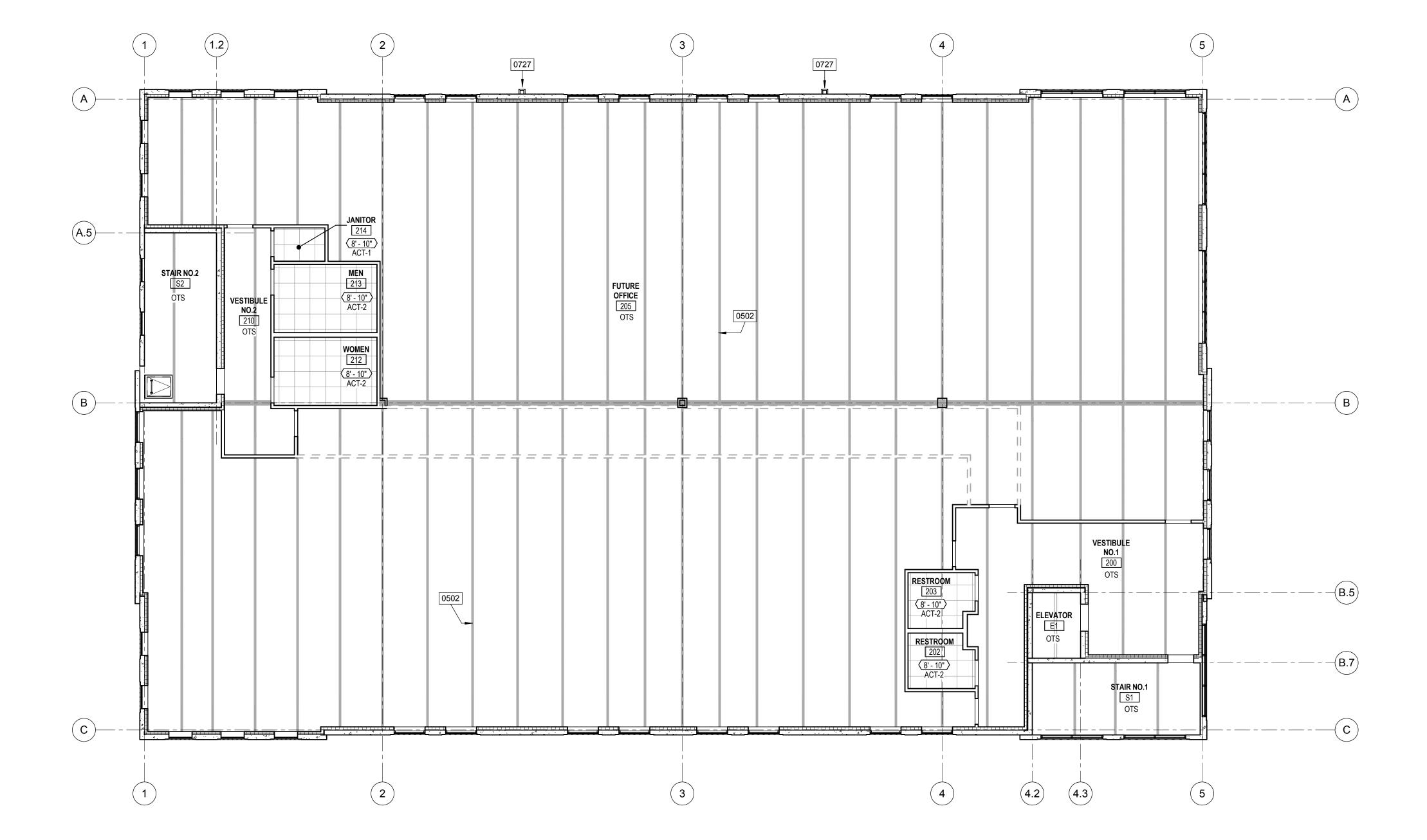




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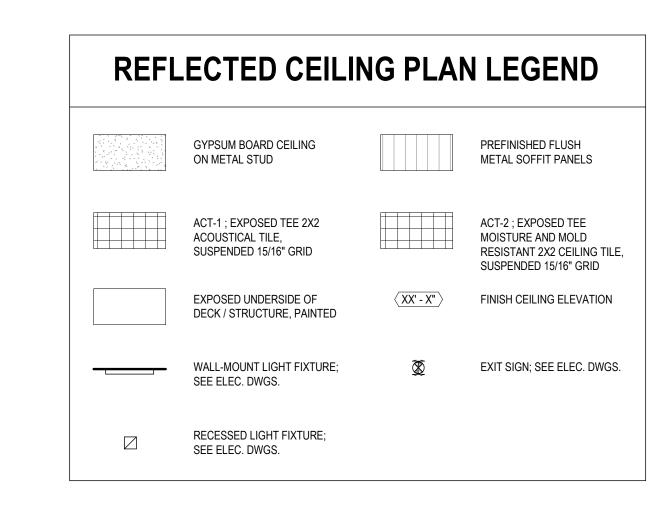
SECOND FLOOR REFLECTED CEILING PLAN

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

### **GENERAL NOTES - ARCHITECTURAL RCP**

- 1. PROVIDE FIRESTOPPING AT TOP OF FIRE-RATED PARTITIONS AND SHAFT WALLS.
- 2. REFER TO SHEET AS1.1 FOR EXTENT OF SPRAY-APPLIED FIREPROOFING.
- 3. UNDERSIDE OF EXPOSED STRUCTURE AND DECK AT STAIRS, ELECTRIC/DATA ROOMS, AND RISER ROOM TO BE PAINTED 'WHITE.'
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	# KEYNOTE LEGEND
KEYNOTE	DESCRIPTION
0502	STEEL FRAMING. REFER TO STRUCTURAL DRAWINGS.
0727	4" X 10" SCUPPER WITH PREFINISHED CONDUCTOR HEAD AND MINIMUM 6" SQUAF DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAINAGE SYSTEM.

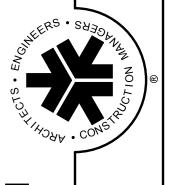




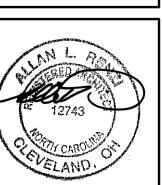
DATES AND REVISIONS

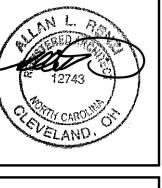
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ROOM FINISH SCHEDULE									
						CEILING			
ROOM#	ROOM NAME	Area	FLOOR	BASE	Wall Finish	MATERIAL	REMARKS		
100	Loppy	100.05	1107	55.4	DT 4	107.1			
100	LOBBY	428 SF	LVT*	RB-1	PT-1	ACT-1			
101	RETAIL	2776 SF	LVT*	RB-1	PT-1	ACT-1			
102	BLDG ELECTRICAL	126 SF	LVT*	RB-1	PT-1	OTS			
103	RISER	42 SF	LVT*	RB-1	PT-1	OTS			
104	TENANT ELEC. & SEWER	79 SF	LVT*	RB-1	PT-1	ACT-1			
105	CORRIDOOR	1652 SF	LVT*	RB-1	PT-1	ACT-1			
107	RESTROOM	64 SF	LVT*	RB-1	PT-1	ACT-2			
108	RESTROOM	60 SF	LVT*	RB-1	PT-1	ACT-2			
109	RESTROOM	62 SF	LVT*	RB-1	PT-1	ACT-2			
110	OFFICE	79 SF	LVT*	RB-1	PT-1	ACT-1			
111	VISUAL FIELDS	107 SF	LVT*	RB-1	PT-1	ACT-1			
112	TESTING	231 SF	LVT*	RB-1	PT-1	ACT-1			
113	MINOR PROCEDURE	128 SF	LVT*	RB-1	PT-1	ACT-1			
114	BREAK ROOM	369 SF	LVT*	RB-1	PT-1	ACT-1			
115	JANITOR ENTRY	39 SF	LVT*	RB-1	PT-1	ACT-1			
116	EMPLOYEE ENTRY	124 SF	LVT*	RB-1	PT-1	ACT-1			
117	EXAM 12	108 SF	LVT*	RB-1	PT-1	ACT-1			
118	EXAM 11	108 SF	LVT*	RB-1	PT-1	ACT-1			
119	EXAM 10	108 SF	LVT*	RB-1	PT-1	ACT-1			
120	EXAM 9	108 SF	LVT*	RB-1	PT-1	ACT-1			
121	SURGERY COORD.	84 SF	LVT*	RB-1	PT-1	ACT-1			
122	TECH AREA	274 SF	LVT*	RB-1	PT-1	ACT-1			
123	SURGERY COORD.	83 SF	LVT*	RB-1	PT-1	ACT-1			
124	EXAM 5	108 SF	LVT*	RB-1	PT-1	ACT-1			
125	EXAM 6	108 SF	LVT*	RB-1	PT-1	ACT-1			
126	EXAM 7	108 SF	LVT*	RB-1	PT-1	ACT-1			
127	EXAM 8	108 SF	LVT*	RB-1	PT-1	ACT-1			
128	OPTICAL/ MULTI-PURPOSE  EXAM 1	177 SF 108 SF	LVT*	RB-1 RB-1	PT-1 PT-1	ACT-1			
129				+	PT-1				
130 131	EXAM 2 EXAM 3	108 SF 106 SF	LVT*	RB-1	PT-1	ACT-1 ACT-1			
132	EXAM 4	111 SF	LVT*	RB-1	PT-1	ACT-1			
133	STAFF RESTROOM	53 SF	LVT*	RB-1	PT-1	ACT-2			
134	STAFF RESTROOM  STAFF RESTROOM	53 SF	LVT*	RB-1	PT-1	ACT-2			
135	OFFICE	111 SF	LVT*	RB-1	PT-1	ACT-1			
		356 SE	LVI VT*						
<del></del>	OFFICE STAFF SHOWER	45 SF	LVT*	RB-1	PT-1 PT-1	OTS ACT-2	TILE FLOOR AT STAFF SHOWER - SLOPE TO DRAIN		
137	FUTURE EXAM	1085 SF	TOTAL TOTAL	RB-1	PT-	OTS OTS	THE LEGITAL STALL SHOWER, SELLE TO DIVAIN		
200	VESTIBULE NO.1	509 SF	LVT*	RB-1	PT-1	OTS			
202	RESTROOM	59 SF	LVT*	RB-1	PT-1	ACT-2			
203	RESTROOM	59 SF	LVT*	RB-1	PT-1	ACT-2			
205	FUTURE OFFICE	9278 SF	LVT*	RB-1	PT-1	OTS			
210	VESTIBULE NO.2	196 SF	LVT*	RB-1	PT-1	OTS			
212	WOMEN	118 SF	LVT*	RB-1	PT-1	ACT-2			
213	MEN	118 SF	LVT*	RB-1	PT-1	ACT-2			
214	JANITOR	30 SF	LVT*	RB-1	PT-1	OTS			
304	PORTE COCHERE	908 SF	LVT*	RB-1	PT-1	PVC			
E1	ELEVATOR	53 SF	N/A	N/A	N/A	OTS			
E1	ELEVATOR	53 SF	N/A	N/A	N/A	OTS			
S1	STAIR NO.1	203 SF	LVT*	RB-1	PT-1	OTS			
S1	STAIR NO.1	205 SF	LVT*	RB-1	PT-1	OTS			
S2	STAIR NO. 2	208 SF	LVT*	RB-1	PT-1	OTS			
S2	STAIR NO.2	208 SF	LVT*	RB-1	PT-1	OTS			

# **GENERAL NOTES - ROOM FINISH**

- 1. ALL FLOORS TO BE POLISHED CONCRETE, U.N.O. REFER TO MATERIAL & FINISH SCHEDULE FOR FLOOR
- FINISHES. 2. CONTRACTOR SHALL VERIFY ALL FLOORING MATERIAL THICKNESS AND PROVIDE TRANSITION STRIPS AS
- DISSIMILAR MATERIALS. 3. ONCE THE CONCRETE FLOOR SLAB IS POURED, FREE OF DUST, DIRT, PAINTS, STAINS AND TIRE MARKS,
- UP UNTIL PUNCHLIST. THERE SHALL BE NO STORING OF MATERIALS ON CONCRETE IN AREAS TO RECEIVE THE CONCRETE FINISH TREATMENT. ALL LIFTS TO BE DIAPERED (TO PREVENT LEAKING FLUIDS FROM REACHING THE FLOOR) AND USE NON-MARKING TIRES.

REQUIRED. ALL FLOORING LEVELING SHALL BE PROVIDED TO ENSURE A SMOOTH TRANSITION BETWEEN

4. EXPOSED SLAB SHALL BE PREPARED PER MANUFACTURER'S INSTRUCTIONS FOR FINAL FINISH TO OCCUR. REPAIR MARRED FINISHED SO THAT FINAL FINISH IS SMOOTH AND DOES NOT TELEGRAPH THROUGH THE FINAL FINISH. SEAL AT PERIMETER.



DATES AND REVISIONS Date / Description

08/19/19 Bulletin 3







THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE. NO USE OR DISSEMINATION MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT ALL RIGHTS ARE HEREBY SPECIFICALLY RESERVED.

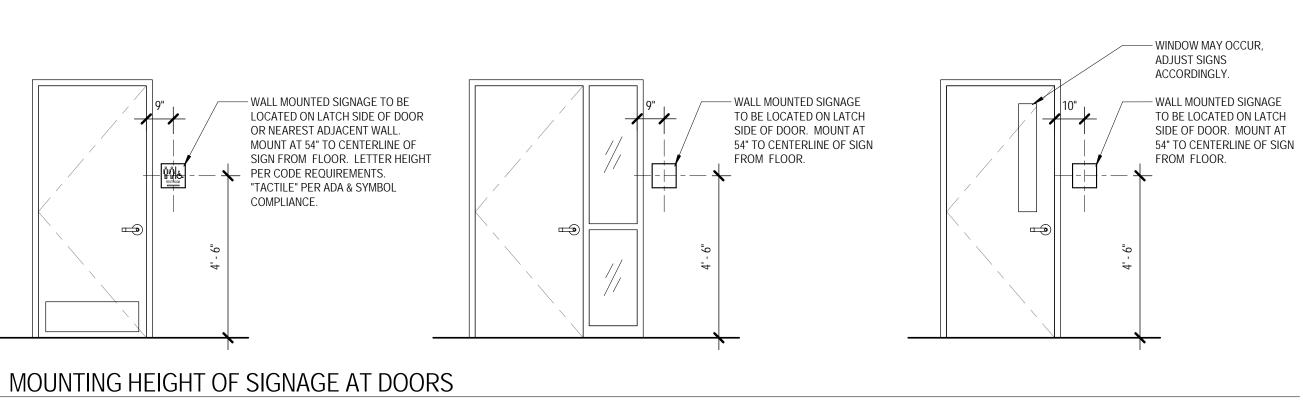
2017 RICHARD L. BOWEN + ASSOCIATE INC.

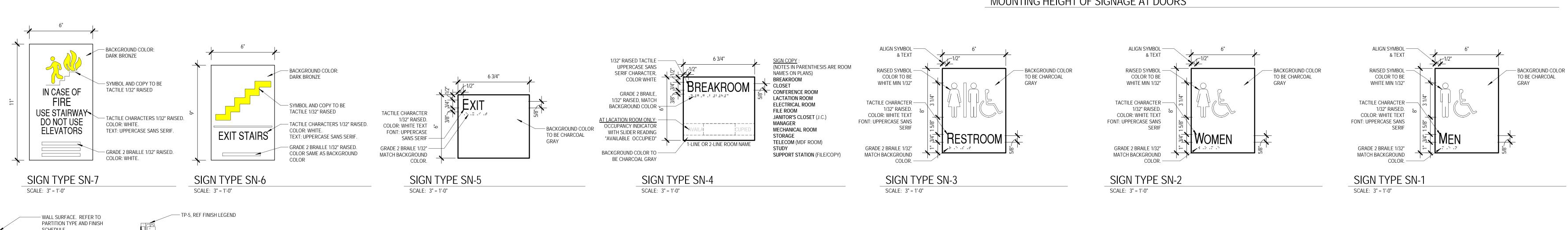
8/21/19

WILMINGTON EYE
1729 MEDICAL PARK DRI
WILMINGTON, NC 28403

DRAWN BY: CHECKED BY: RLB NO.:

DRAWING NO.





8 FLOOR TRANSITION DETAIL

A10.1 SCALE: 6" = 1'-0"

— TP-6, REF

FINISH LEGEND

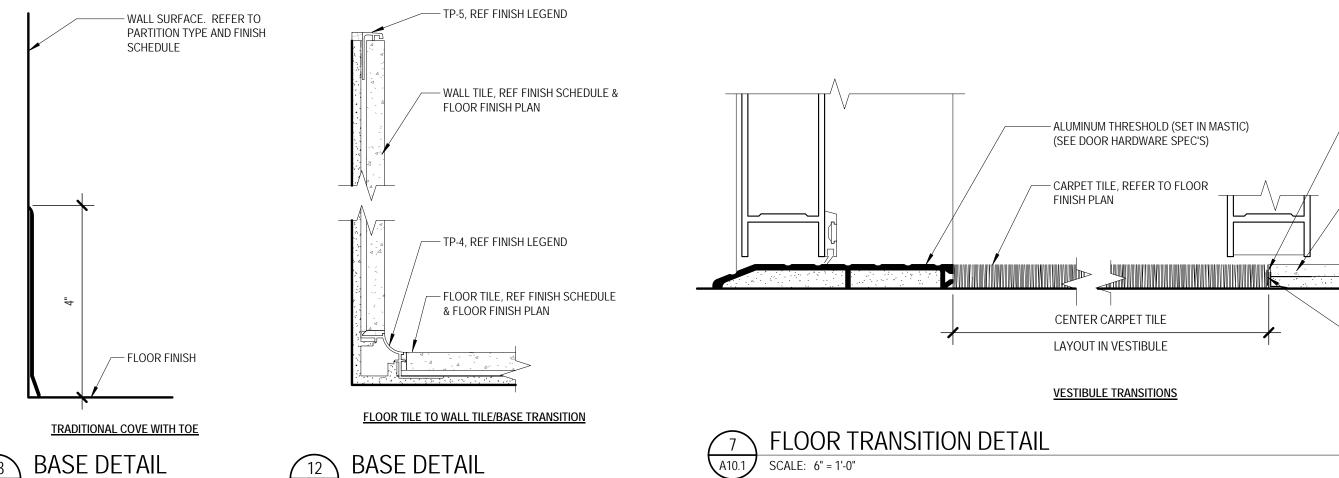
— CERAMIC TILE

- ALIGN UNDER

CENTER OF DOOR

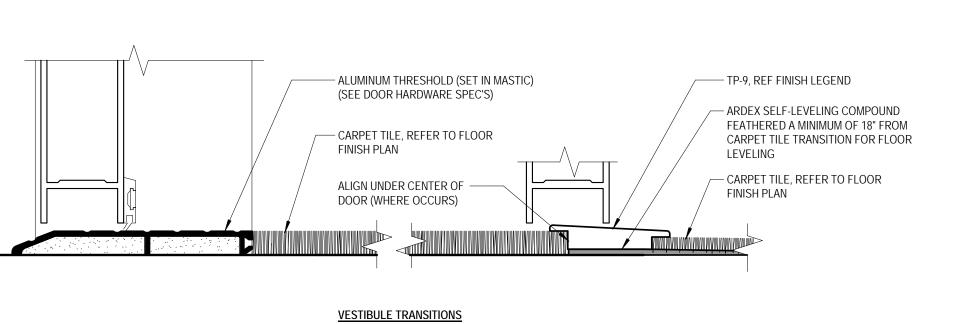
(WHERE OCCURS)

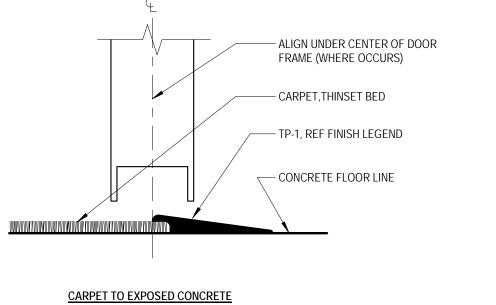
ON MEDIUM BED

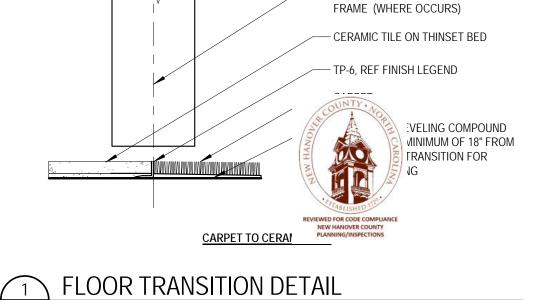


SCALE: 6" = 1'-0"

A10.1 SCALE: 6" = 1'-0"







A10.1 SCALE: 6" = 1'-0"

— ALIGN UNDER CENTER OF DOOR

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH SITE, ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS, AND APPLICABLE INFORMATION FURNISHED BY MATERIALS AND EQUIPMENT SUPPLIERS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.

3. CONFIRM ALL DIMENSIONS WITH ARCHITECTURAL AND SITE DRAWINGS PRIOR TO CONSTRUCTION

# CONCRETE:

CONCRETE WORK SHALL COMPLY WITH PROVISIONS OF THE CURRENT EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE REQUIRED.

SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE "BUILDING REQUIREMENTS FOR REINFORCED CONCRETE" ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" - ACI SP-15 "FIELD REFERENCE MANUAL"

CONCRETE REINFORCING STEEL INSTITUTE "CRSI MANUAL OF STANDARD PRACTICE FOR REINFORCING PLACEMENT"

**AMERICAN WELDING SOCIETY** 

REINFORCING STEEL SHALL BE GRADE 60, DEFORMED TYPE, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE COLD-DRAWN, RESISTANCE WELDED TYPE, CONFORMING TO ASTM A1064 REQUIREMENTS.

CONCRETE STRENGTH AT 28 DAYS (fc) SHALL BE AS FOLLOWS: FOOTINGS 3000 PSI 3500 PSI SLAB ON GRADE ELEVATED FLOORS 3500 PSI NORMAL WEIGHT

TILT-UP PANELS 4000 PSI U.N.O. 4. PORTLAND CEMENT SHALL BE TYPE I OR III, CONFORMING TO ASTM C150 REQUIREMENTS TO MAINTAIN THE MINIMUM COVER INDICATED ON THE DETAILS. PROVIDE NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C33.

5. GROUT BASE PLATES WITH A NONSHRINKABLE, NON-METALLIC GROUT CONFORMING TO ASTM C1107. THE GROUT SPECIFIED COMPRESSIVE STRENGTH IS 5000 PSI AT 28 DAYS. DO NOT PRE-GROUT BASEPLATES.

6. FOOTING DESIGN IS BASED A SOIL BEARING PRESSURE OF 2,000 PSF AS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY ECS SOUTHEAST, LLP. ECS PROJECT NUMBER # 22:27986, DATED JUNE 10th, 2019. SOIL BEARING PRESSURE IS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE PRIOR TO CONSTRUCTION.

DO NOT PLACE CONDUIT OR PIPES IN ANY CONCRETE ELEMENTS INCLUDING SLABS, BEAMS, WALLS, OR COLUMNS UNLESS INDICATED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

TILT-UP PANELS ARE TO BE DESIGNED BY THE TILT-UP CONTRACTOR FOR THE DESIGN LOADS SHOWN IN THESE DOCUMENTS. SHOP DETAILS, SHOWING PANEL DIMENSIONS, REINFORCEMENT DETAILS, AND EMBED LOCATIONS & DETAILS ARE TO BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

# STEEL:

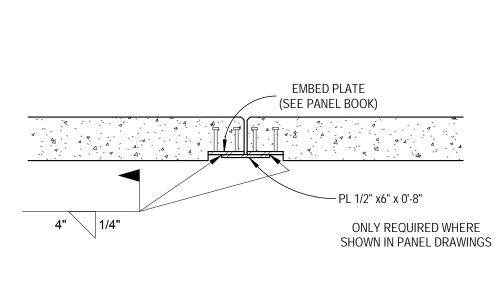
SPECIFICATIONS: STRUCTURAL STEEL IS DESIGNED, AND IS TO BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH: 1.) THE STEEL CONSTRUCTION MANUAL, 14TH EDITION
PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

2. STRUCTURAL STEEL IS TO CONFORM TO THE FOLLOWING SPECIFICATIONS: STRUCTURAL STEEL W-SHAPES ASTM A992  $F_v = 50$ ksi MISC. BARS, PLATES, C's, & L's ASTM A36  $F_v = 36ksi$ ASTM A500 GRADE B or C  $F_v = 46$ ksi STRUCTURAL TUBING

3. ALL WELDING IS TO CONFORM TO ANSI/AWS D1.1 STRUCTURAL WELDING CODE USING E70XX ELECTRODES. METAL DECK MAY BE PUDDLE WELDED TO STRUCTURE USING E6022 ELECTRODES. ALL WELDING IS TO BE DONE BY WELDERS QUALIFIED UNDER ANSI/AWS D1.1. PROVIDE EVIDENCE OF QUALIFICATION TO ARCHITECT PRIOR TO ERECTION.

4. ALL BOLTED CONNECTIONS ARE TO BE MADE USING 3/4" DIA. BOLTS CONFORMING TO ASTM F3125 GRADE A325 IN BEARING TYPE CONNECTION (SNUG TIGHT) UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS. A307 BOLTS MAY BE USED FOR

5. ANCHOR RODS ARE TO BE OF A1554 GR 36 MATERIAL w/ DOUBLE A 563a HEX NUTS & DOUBLE F844 WASHERS.

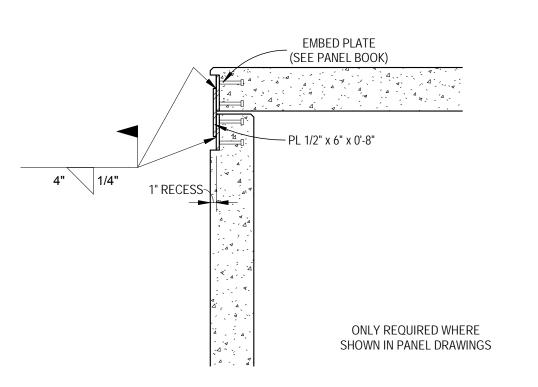


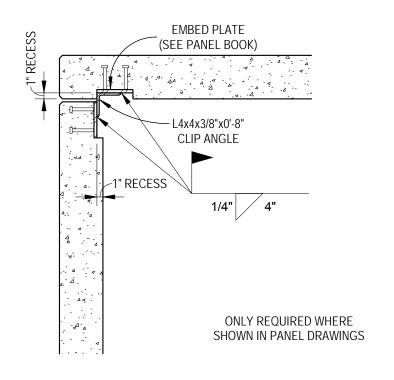
TIE BARS, SPACING PER SCHEDULE

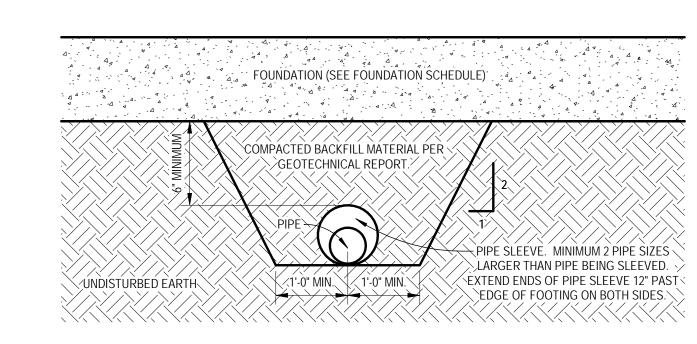
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-CONTINUOUS BARS PER SCHEDULE

'/ 3/4" = 1'-0"





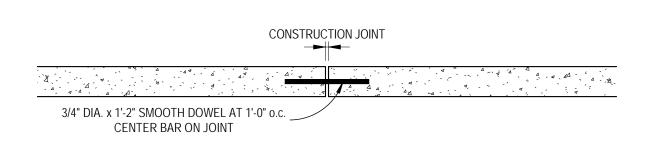


PIPE UNDER FOOTING

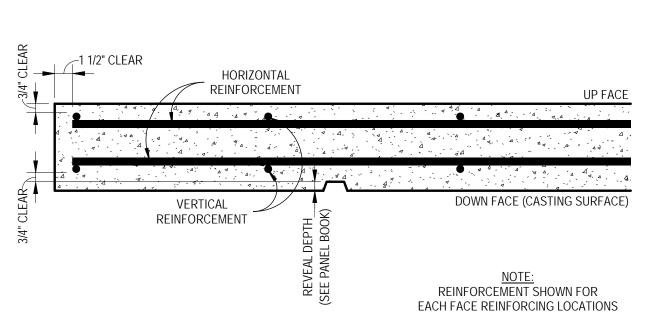
<sup>√</sup> 3/4" = 1'-0"

NSIDE CORNER CONNECTION PLANAR PANEL TO PANEL CONNECTION OUTSIDE CORNER CONNECTION

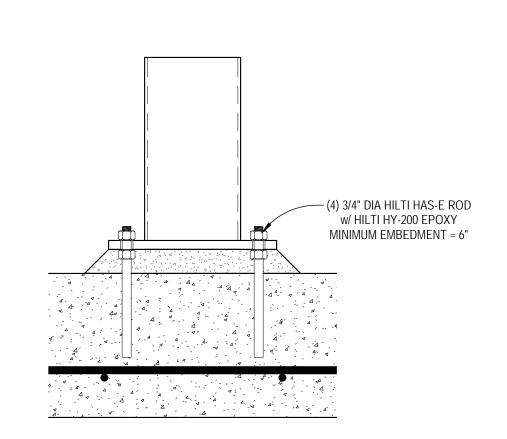
# NOTE: LOCATION OF CONSTRUCTION JOINT TO BE AT CONTRACTOR'S DISCRETION



6 CONSTRUCTION JOINT



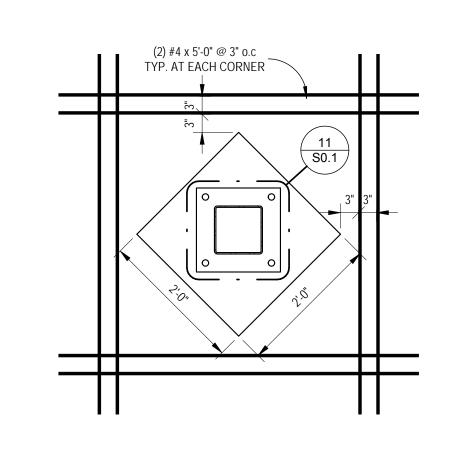
NOTE: SEE STRUCTURAL PLAN & SCHEDULE FOR FOUNDATION SIZE, REINFORCING, DEPTH, AND SUB-BASE REQUIREMENTS ISOLATION JOINT. FILL w/ CONCRETE FROM TOP OF FOOTING TO TOP OF SLAB - 4- 4 - 4 - 4 - 4 - 4 - 4 COLD JOINT AT CONTRACTOR'S DISCRETION STRUCTURAL FOUNDATION SEE SCHEDULE FOR SIZE & REINFORCING

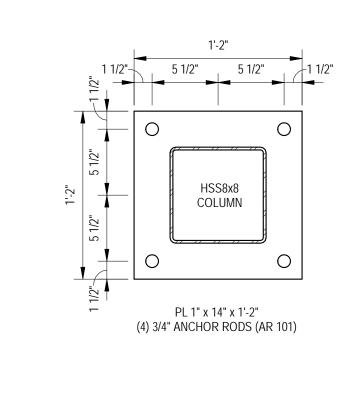


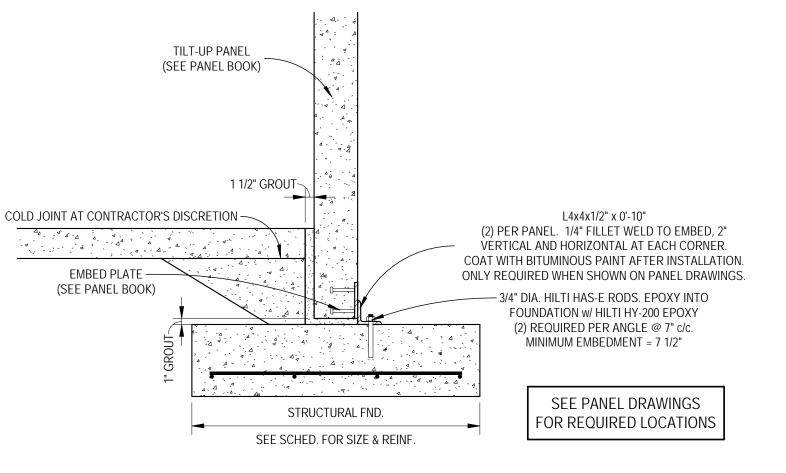
5 CONT. FDN CORNER REBAR LAP 1/2" = 1'-0" 7 TILT-UP PANEL REINFORCEMENT LOCATION - SOLID 1 1/2" = 1'-0"

INTERIOR COLUMN FOOTING 8 3/4" = 1'-0"

ANCHOR ROD DETAIL 9 1 1/2" = 1'-0"







BASE PLATE "A" - HSS8x8 EXTERIOR WALL FOOTING - HAS-E ROD & EPOXY 3/4" = 1'-0"



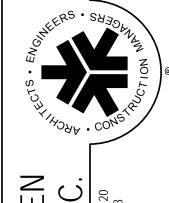


DATES AND REVISIONS

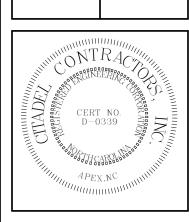
2019-06-10 Permit Set

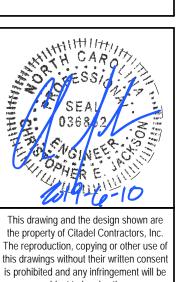
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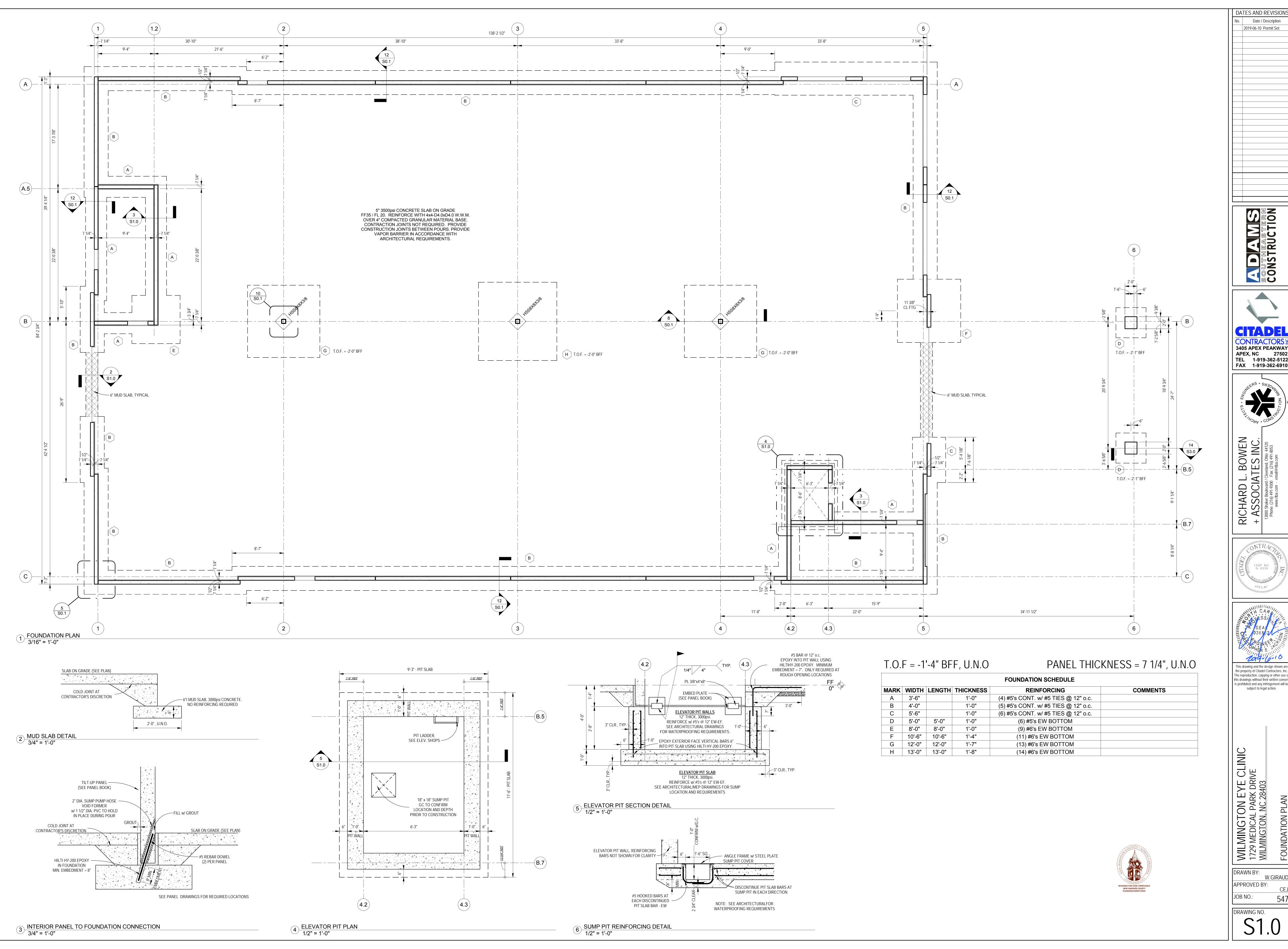
RICHARD L. + ASSOCIAT





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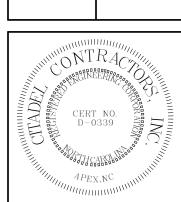
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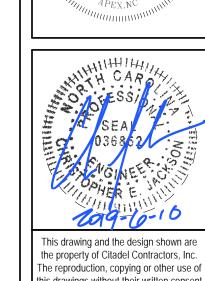


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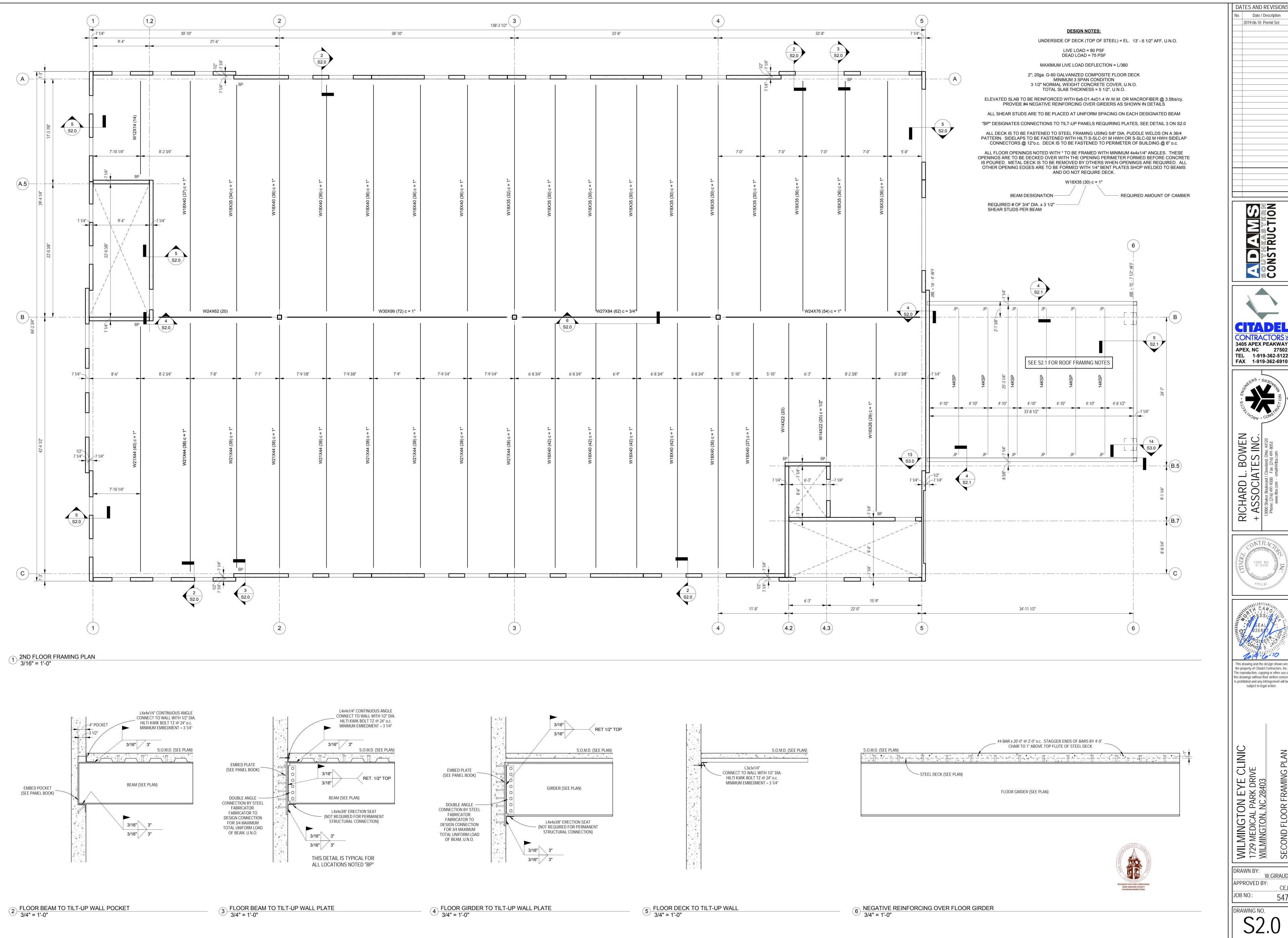




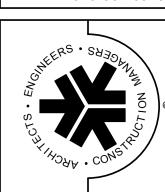
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WILMINGTON EYE (1729 MEDICAL PARK DRIV WILMINGTON, NC 28403

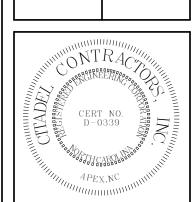
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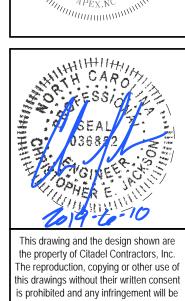










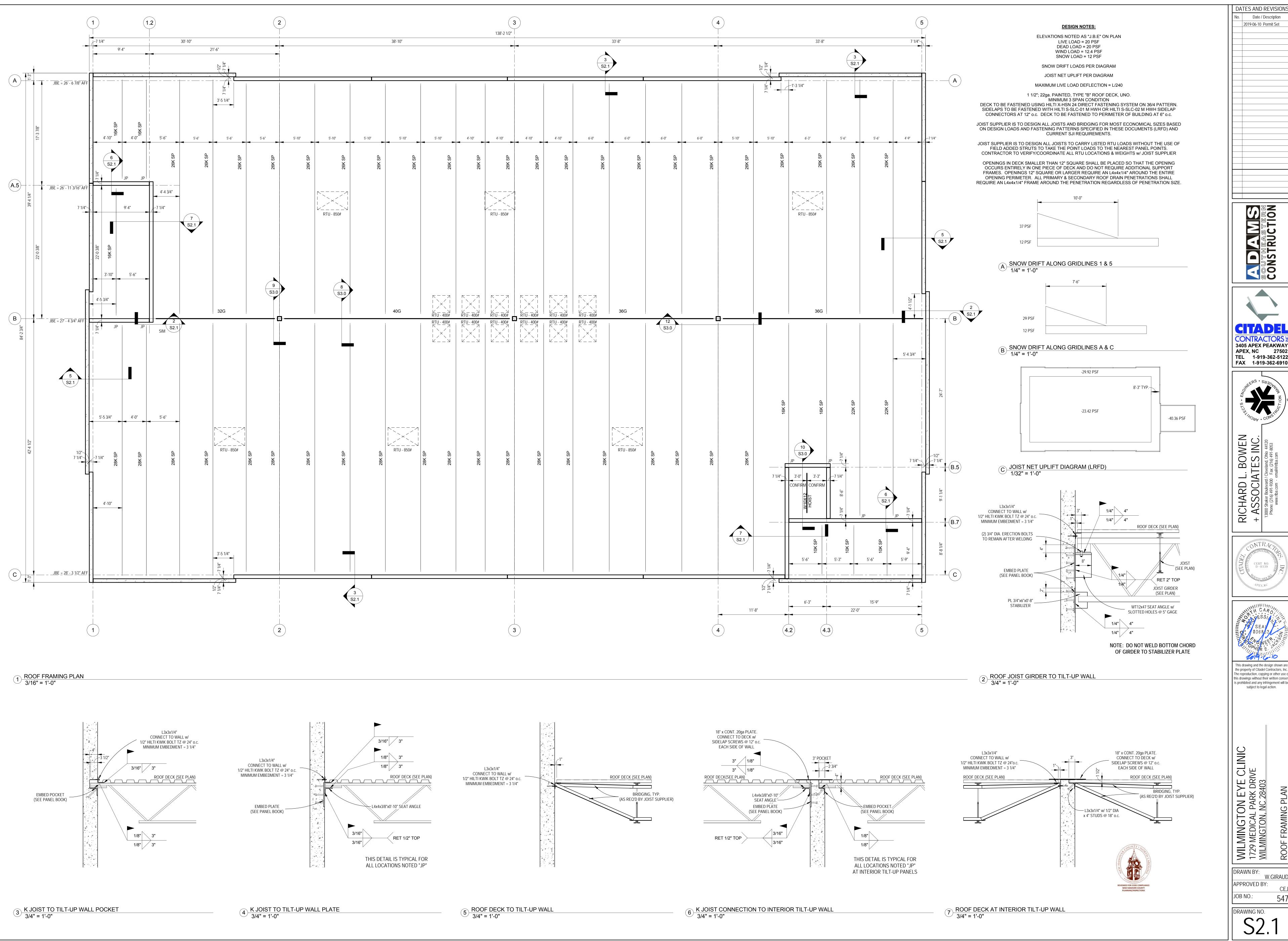




WILMINGTON EYE CLINIC 1729 MEDICAL PARK DRIVE WILMINGTON, NC 28403

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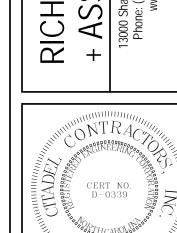


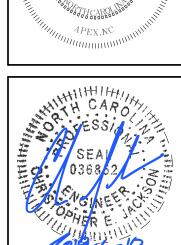
2019-06-10 Permit Set

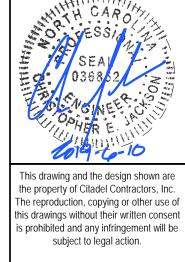


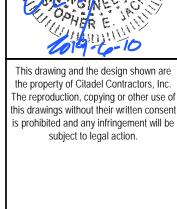






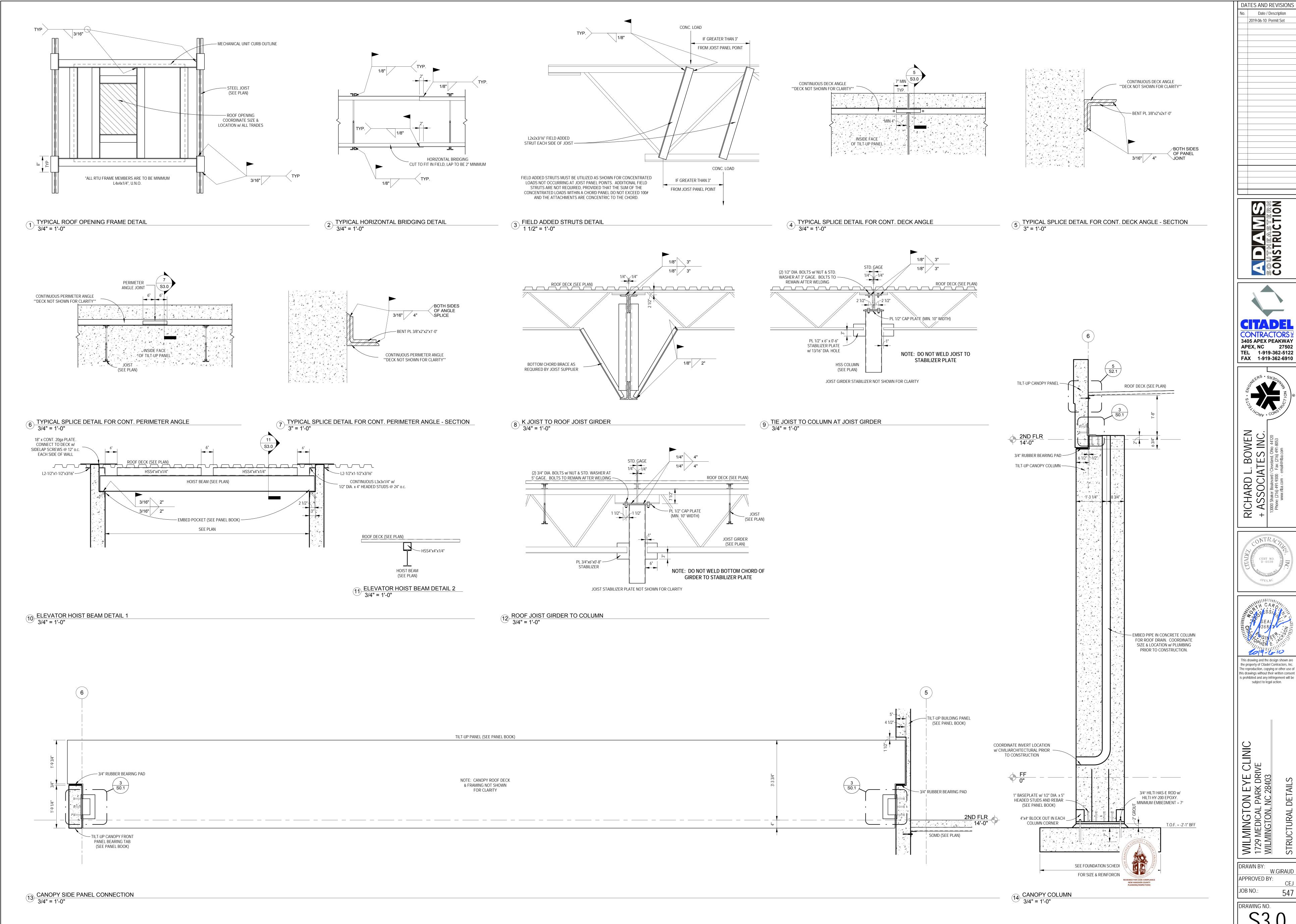






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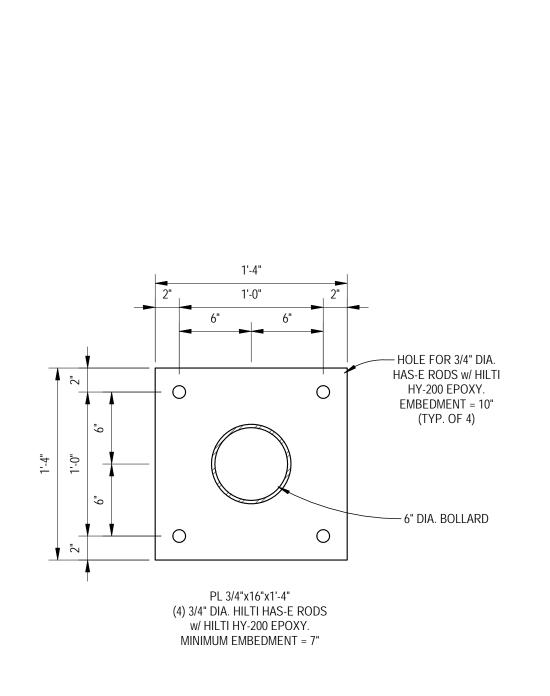
TILT-UP PANEL — S.O.G. (SEE PLAN) 2'-0" DIA.

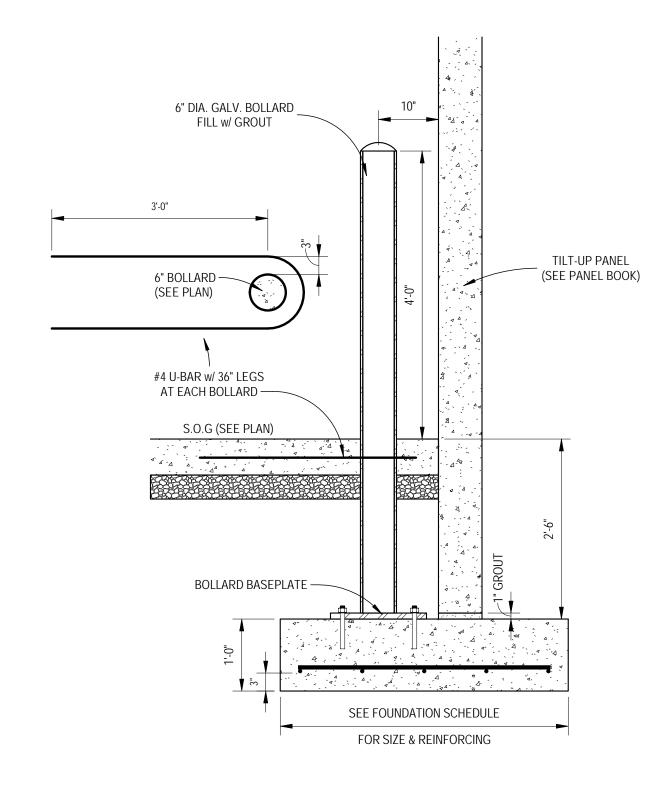
NO REINFORCING REQ'D

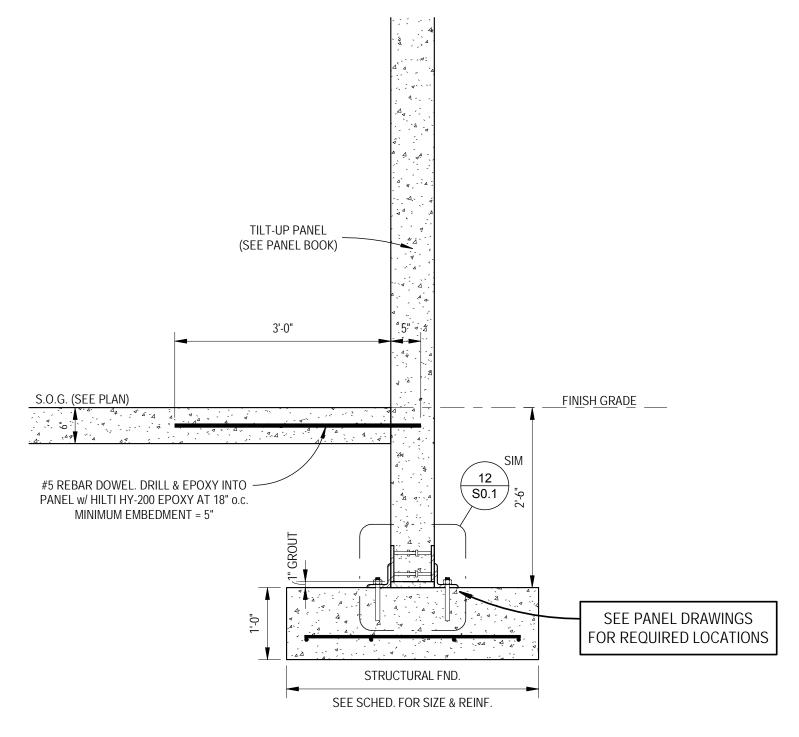
2 6" BOLLARD BASEPLATE 1 1/2" = 1'-0"

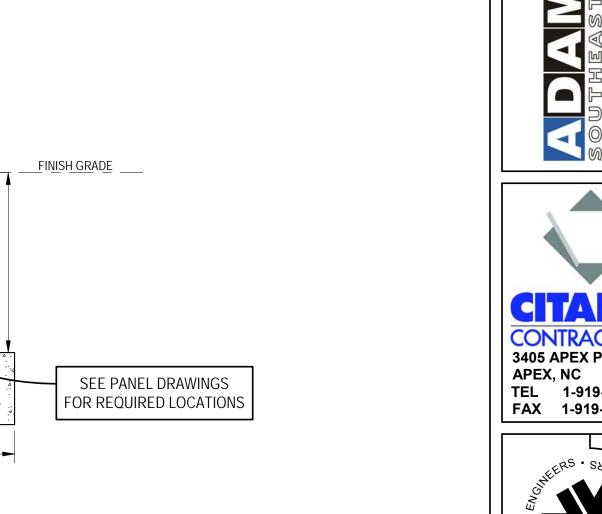
3 BOLLARD w/ BASEPLATE DETAIL 3/4" = 1'-0"

TRASH ENCLOSURE WALL DETAIL
3/4" = 1'-0"











DATES AND REVISIONS

No. Date / Description 2019-06-10 Permit Set



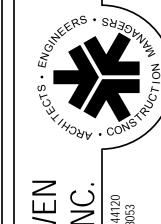




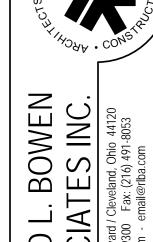








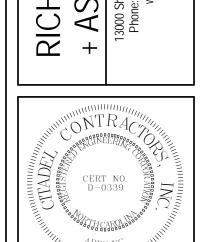


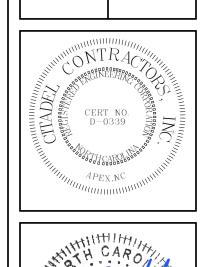


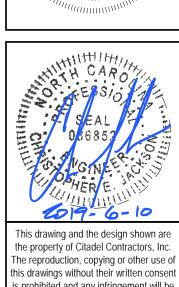


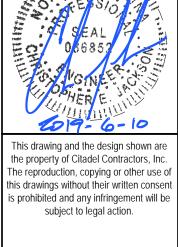
RICHARD L. BOWEN
+ ASSOCIATES INC.

13000 Shaker Boulevard / Cleveland, Ohio 44120
Phone: (216) 491-9300 Fax: (216) 491-8053





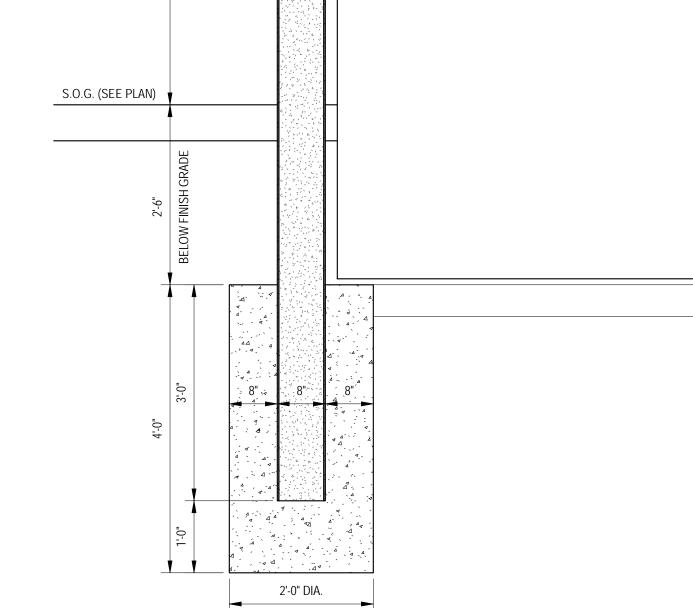




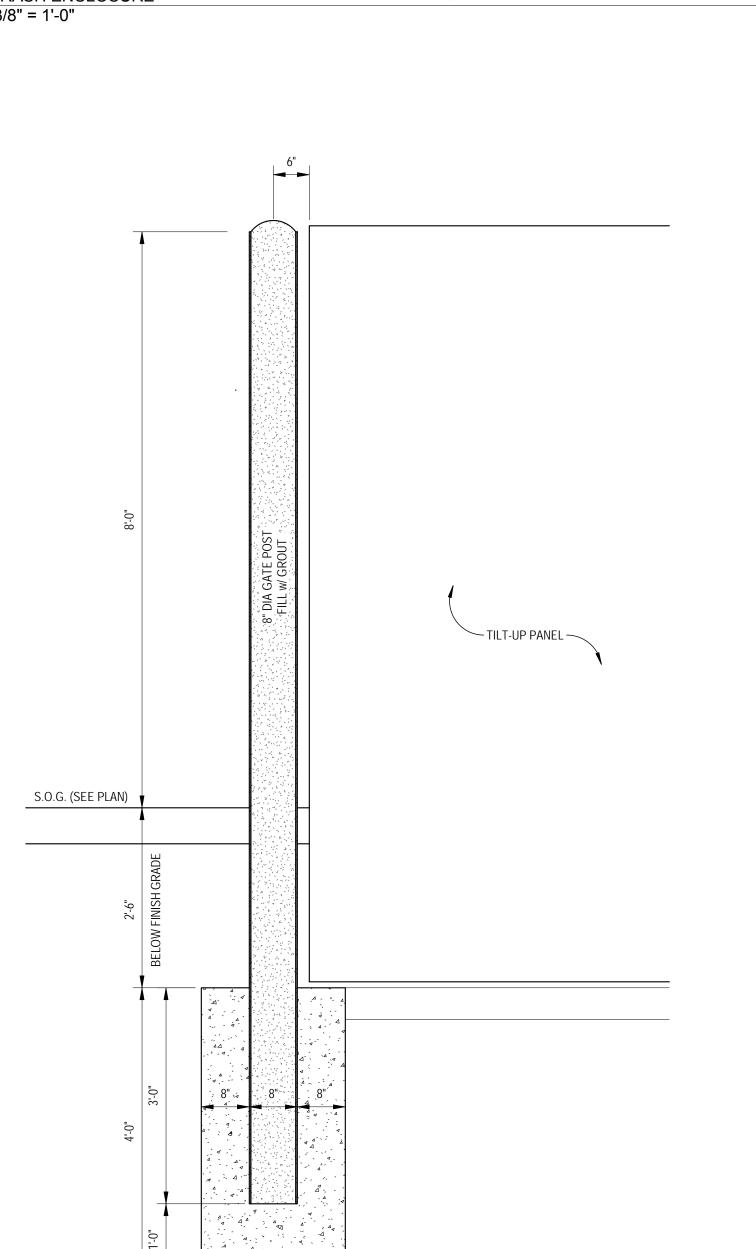
WILMINGTON EYE CLINIC 1729 MEDICAL PARK DRIVE WILMINGTON, NC 28403

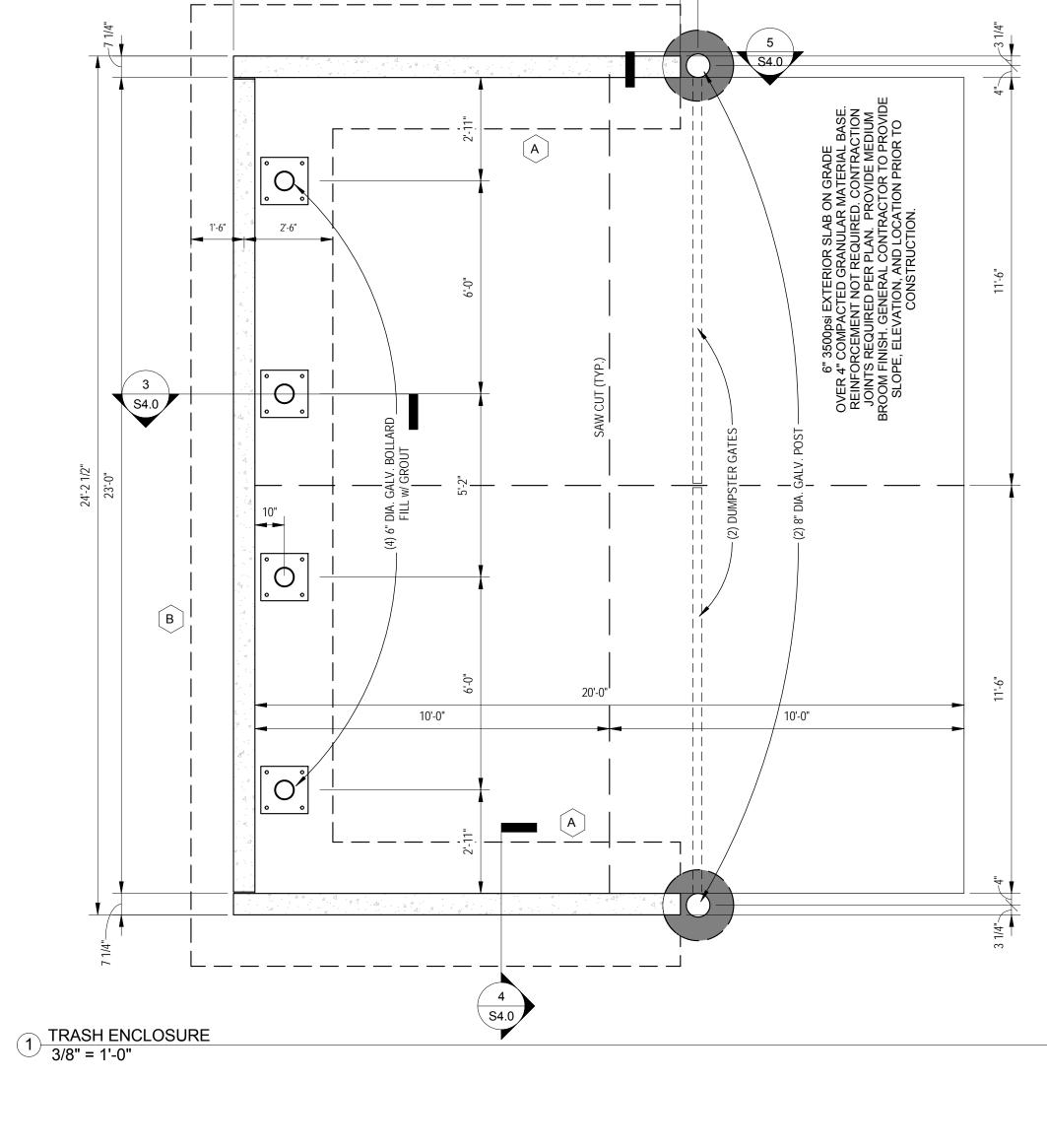
DRAWN BY: W.GIRAUD APPROVED BY:

DRAWING NO.

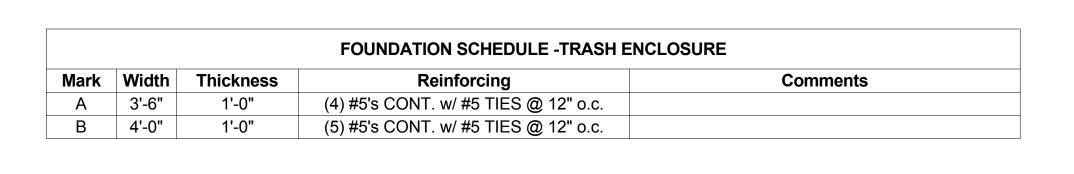


5 GATE POST DETAIL 3/4" = 1'-0"





12'-7 1/4"



#### **OUTLINE SPECIFICATIONS - PLUMBING**

#### 1. <u>GENERAL:</u>

- a. It is the intent and meaning of these drawings to provide complete and operable plumbing and drainage systems. Contractor shall comply with the following Codes and Standards insofar as they apply: North Carolina State Building Code,
- Plumbing, Energy Code, National Fire Protection Association Codes and all Local Codes and Ordinances.
- Contractor shall secure all permits, inspections, licenses and tests required for this work and pay all fees in connection
- d. Unless specifically indicated otherwise, all equipment and materials shall be installed in accordance with the recommendations of the manufacturers.
- e. The drawings are generally diagrammatic and may not show all details of bolts, nuts, fittings, connections, etc. required for a complete system, and do not indicate the exact locations of piping, fixtures, ducts, equipment, etc. While these drawings shall be followed as closely as possible, all dimensions shall be checked and verified at the building and any necessary changes shall be made in accordance with structural conditions, equipment to be installed, or other systems, etc., without additional cost to the Owner and as directed by the Architect and Engineer.
- Coordinate work in this division with work of other divisions.
- g. All materials shall be new and shall bear the manufacturer's name, trade name and be UL labeled. Equipment and materials of the same general type shall be of the same make throughout the work.
- h. It shall be the responsibility of the Contractor to verify that items to be furnished fit the space available.
- i. Contractor shall submit to the Engineer shop drawings for approval (6 copies required) for the following items: (1) All items of equipment, (2) Insulation, (3) Piping specialties.
- This Contractor shall locate and size all openings required for his equipment and piping and provide this information to the
- General Contractor in time to not delay the building construction. k. This Contractor shall provide and locate all sleeves and inserts required before the floor and walls are built or shall be responsible for the cost of cutting and patching required for pipes where sleeves and inserts were not installed or where

#### 2. PLUMBING FIXTURES:

incorrectly located.

- a. All exposed piping and metal parts shall be chrome—plated.
- b. All floor—mounted closets shall be set and grouted with white grout between floor and closet. Connections for water closets
- shall be made by use of extra heavy cast brass flanges and vermin proofed wax gaskets. c. All wall—hung fixtures shall be sealed between wall and fixtures with white silicone caulking.
- d. All counter mounted fixture rims shall be sealed with clear silicone caulking.
- e. Fixtures shall be as specified on the drawings. Approved equals will be acceptable.

#### 3. <u>PIPING:</u>

- a. Unless otherwise indicated, all piping shall be run in concealed spaces between floors and ceilings or in chases. Pipes shall be run at right angles or parallel lines with building walls.
- b. Provide necessary grading and valves for drainage. Grade waste and drainage piping 2 1/2—inches and smaller at minimum of 1/4 inch per foot and 3-inches and larger at a minimum of 1/8 inch per foot unless otherwise noted.
- Contractor shall make provisions for expansion loops where necessary whether or not shown on the drawings.
- Support all interior piping from building structure by means of hangers or inserts to maintain required grading and pitching of lines, to prevent vibration and secure piping in place.
- e. Soil, waste and vent stacks shall be well supported at the base by means of piers of heavy—duty hangers close to the bottom of riser and secured at each floor by means of heavy—duty iron riser clamps.
- f. Piping table:

USAGE	SIZES	MATERIAL	FITTINGS		
Domestic Water (below grade)	1/2"-3"	Type "K" Soft Copper (ASTM B-88)	Wrought Copper (ASA B 16.22)	95-5 tin-antimony	
Domestic Water (above grade)	1/2"-3" Type "L" Hard Copper (ASTM B-88)		Wrought Copper (ASA B 16.22)	95-5 tin-antimony	
Waste, Vent and Roof Drainage	ALL	PVC-DWV Schedule 40 (ASTM D-2665-73)	PVC-DWV (ASTM D-2665-73)	Solvent (ASTM D-2665-73)	
Waste and Drain Stack	ALL	Cast Iron			

- g. Use dielectric unions for connecting copper tubing with hot water storage tank and other equipment and piping made of
- Provide shock arrestors in water supplies to each fixture be Josam, Smith or Zurn.
- i. All traps shall be approved "P" type. Traps at floor drains shall be deep seal type cast iron. Provide trap primers as required by local inspection departments.
- Cleanouts shall be accessible and shall be Josam, Smith or Zurn. All exposed portions of cleanouts in finished areas shall be nickel brass alloy.
- k. Drain valves shall be of brass construction with 3/4-inch hose thread outlet and vacuum breaker. Contractor shall provide insulation on all above ground cold and hot water lines. Insulation shall be 1—inch thick fiberglass
- m. All water service, cold and hot water piping shall be sterilized with chlorine solution as outlined in the North Carolina State Building Code, Plumbing. A record of the sterilization shall be submitted to the Engineer. The Plumbing Contractor shall
- notify the Board of Health in writing 7 days in advance of system sterilization. n. The Plumbing Contractor shall notify the Engineer 24 hours in advance of all tests. The Plumbing Contractor shall make all necessary preliminary tests to insure a tight system. All water piping shall be made tight under a hydrostatic test pressure
- of 125 pounds per square inch and maintained without pressure loss for a minimum of 4 hours. No caulking of joints will be permitted. Waste piping shall be pressure tested for leaks.

#### 4. **GUARANTEE**:

The Plumbing Contractor shall guarantee all work performed under this contract to be free from defects in material and workmanship for a period of one (1) year from the date of final acceptance of such work by the Architect. Water heaters shall be guaranteed for three (3) years.

#### **OUTLINE SPECIFICATIONS - MECHANICAL**

#### 1. GENERAL:

- a. It is the intent and meaning of these drawings to provide complete heating and air—conditioning systems for the areas
- b. Contractor shall comply with the following standards and codes insofar as they apply:
- (1) National Fire Protection Association Codes.
- (2) North Carolina State Mechanical Code, Energy Code and Local Requirements.
- (3) SMACNA Standards.
- c. Contractor shall secure all permits, inspections, licenses and tests required for this work and pay all fees in connection
- d. Unless specifically indicated otherwise, all equipment and materials shall be installed in accordance with the recommendations
- of the manufacturers. e. Contractor shall submit shop drawings for approval (6 copies required) for the following items prior to ordering:
  - (1) Air Distribution.
  - (2) Insulation and Jacketing.
  - (3) Heating, Ventilation and Air Conditioning Equipment.

#### 2. PIPING VALVES ACCESSORIES:

- a. GENERAL REQUIREMENTS:
  - (1) Provide refrigerant piping from outdoor units to indoor coils in accordance with manufacturer's recommendations.
  - Provide cooling coil condensate drain piping from indoor unit to drain points.
  - (2) Piping connections shall be made strictly in accordance with equipment manufacturer's recommendations. This Contractor shall make all vents and drain, other small pipe connections, etc. required to complete the installation in accordance with good practice.
- b. REFRIGERANT PIPING, VALVES, FITTINGS, AND MISCELLANEOUS:
  - (1) All refrigerant piping shall be Type "L" hard drawn copper tubing with wrought copper fittings with all joints made with hard solder of the silver type similar to "SIL—FOS" or "Easy—Flow" or approved equal.
  - (2) Each refrigerant circuit shall contain all the accessories as recommended by the compressor manufacturer. Refrigerant
  - pipe sizes shall be as recommended by the compressor manufacturer for the length of run and lift required. (3) Furnish a full charge of refrigerant for each system and maintain the charge and the complete HVAC system for a
  - period of one (1) year from date of acceptance. (4) Testing: All refrigerant piping shall be tested in accordance with manufacturer's recommendations.
- c. CONDENSATE DRAIN PIPING:
- (1) All condensate drain piping from cooling coils and drain pans to be of PVC with fittings for all changes in direction.

#### 3. <u>DUCTWORK, SHEET METAL AND ACCESSORIES:</u>

- a. GENERAL REQUIREMENTS:
  - (1) Provide all sheet metal ducts required for air distribution shown on the drawings and as specified herein. This Contractor shall be responsible for location of wall and floor openings for ductwork.
  - (2) All ducts, fittings and components shall be as constructed in accordance with standards as described in applicable
  - (3) Provide manual volume control dampers of the multiblade or splitter type as required for balancing the airflow.
  - Dampers to be fitted with locking quadrants.
  - (4) Duct hangers and supports shall be in accordance with standards as described in SMACNA manual titled "Low Pressure Duct Construction Standards" for low velocity ducts.
  - (5) Flexible connections shall be installed at all locations between ductwork and fans.
  - (6) All duct joint sealing compounds, glues, mastics and adhesives used on duct construction shall be "Fire Safe" and be
  - UL approved and labeled. (7) All square bends or elbows shall be fitted with turning vanes.
- (8) All duct dimensions shown on the drawings are clear and free inside dimensions.
- DUCT CONSTRUCTION FOR LOW VELOCITY AND LOW PRESSURE:
- (1) All rectangular and round galvanized sheet metal duct handling low pressure and low velocity air shall be constructed in accordance with the latest edition of SMACNA duct manual titled "Low Pressure Duct Construction Standards".
- (2) All mechanical joints in low—pressure supply ductwork shall be sealed with an approved type duct sealing tape or
- compound. Duct tape will not be approved. (3) Ductwork shall be UL listed Class 1 or better.

#### 4. INSULATION:

- a. Insulate all refrigerant piping in accordance with Table Section 503, paragraph 503.2.8 of the N.C. State Energy Code Latest Edition. Insulation to be Armstrong Armaflex or equal. All joints in insulation to be sealed with adhesive as recommended by the manufacturer.
- b. Insulate all condensate drain piping with 1/2" wall thickness Armstrong Armaflex or equal. All joints in insulation to be
- sealed with adhesive as recommended by the manufacturer. c. All supply, return and outside air ductwork and plenums shall be insulated in accordance with Section 503, paragraph 503.2.7
- of the N.C. State Energy Code Latest Edition. d. Internally insulated ductwork shall be provided with (1) clip per square foot of duct surface in addition to continuous adhesive to attach lining to inside of ducts. Ducts with duct lining will not require additional exterior insulation. Duct sizes shown on drawings are clear inside and shall be increased in size to accommodate duct lining.
- All ducts, boots and any other portion of ductwork not lined on the interior shall be insulated on the exterior with flexible type insulation with factory applied vapor barrier meeting the requirements of Section 503, paragraph 503.2.7 of the N.C. State Energy Code — Latest Edition. Flexible duct insulation shall be adhered to duct with and approved adhesive, applied in strips about 6" wide on approximately 12" centers. All joints to have 2" overlap stapled on 3" centers and sealed with 3" vapor barrier type tape.

#### 5. EQUIPMENT:

Refer to drawings and schedules for manufacturers and model numbers of all equipment. Approved equals by the Engineer will be accepted.

#### 6. AIR BALANCE:

The Contractor shall perform an airflow balance of the systems using airflow hood, pilot tubes, etc. Contractor shall then prepare an air balance report indicating airflows at the air handlers and at the air distribution devices.

#### 7. <u>COMMISSIONING:</u>

Equipment installation and operation shall be fully inspected and commissioned by a representative of Mitsubishi Corporation.

#### 8. **GUARANTEE**:

The Contractor shall guarantee the materials, equipment and workmanship furnished and installed under this contract against defects for a period of one (1) year form date of acceptance by the owner. Each air conditioning compressor warranty shall extend for additional four (4) year period.

#### **OUTLINE SPECIFICATIONS - ELECTRICAL**

#### 1. <u>GENERAL:</u>

- a. The contract documents shall consist of the complete project Specifications and Drawings.
- b. All electrical work shall be provided in accordance with the latest edition of the National Electrical Code, State Building Codes including Volume X Energy Code and Local Codes.
- c. The Electrical Contractor shall be responsible for securing all permits, inspections, licenses, insurance's, etc. required for this work and paying all fees in connection therewith.

#### 2. <u>SCOPE:</u>

a. The Electrical contract documents require the Electrical Contractor to provide the complete installation of all electrical equipment, materials, services, labor, etc. required to produce the intended results.

#### 3. MATERIALS:

- a. Unless otherwise specified, all wiring shall consist of individually insulated copper conductors installed in conduits. MC cable may be used in walls and above ceilings where it does not come in contact with concrete or ground and it is not subject to injury.
- b. CONDUCTORS: (1) All wiring shall be copper.
  - (2) Type THW in raceways for service conductors.
  - (3) Type THW in raceways for panel boards and power feeders and grounding conductors.
  - (4) Type THHN or THWN for branch circuits.
  - (5) All conductor connectors shall be compression type. (6) Wire shall be color coded as follows:
  - Phase A Black
  - Phase B Red Phase C - Blue
  - Neutral White
  - Ground Green
- (7)Provide each circuit with a ground wire. Bond ground wire in panel and at device.
- c. CONDÚITS:
  - (1) PVC Sch. 40 with solvent weld joints for underground systems. (2)EMT for above grade system, unless subject to injury.
- (3) If subject to injury, use rigid galvanized conduit.
- (4) Weatherproof flexible conduit for connection to outdoor equipment.
- (5) Rigid galvanized conduit for service feeders.
- d. WIRING DEVICES: Wiring devices shall be Leviton Spec Grade or approved equal. Covers shall be plastic and white color unless otherwise noted.

Wiring devices shall be one make throughout entire project.

#### 4. EQUIPMENT:

- a. All distribution equipment shall be one make throughout entire project. Acceptable manufacturers include Square D, General Electric
- b. Main circuit breakers and secondary breakers shall have short circuit rating as shown on drawings. These ratings shall be coordinated with Power Company and higher ratings shall be provided if the Power Company requires same.
- See light fixture schedules for fixture manufacturers and model numbers.
- d. Each panel board shall be provided with a typed directory card showing the type and size of load for each breaker.
- e. Each disconnect switch and panel board shall be labeled. f. All electrical material furnished under this contract shall be new and unused. Defective electrical equipment and/or materials shall
- be removed and replaced by the Electrical Contractor at his expense. All indoor junction boxes shall be stamped metal with knockouts.
- Fused disconnect switches shall be heavy duty. Panels and disconnect switches in dry locations may be NEMA 1. Panels and disconnect switches in wet locations shall be NEMA
- Provide three 3/4" spare conduits with pull wire from all flush mounted panels. Stub spare conduits above the ceiling for future

# 5. EXECUTION:

- a. All electrical work shall be coordinated with work of other trades to provide a thoroughly coordinated installation that meets all
- code clearances and is free of conflicts.
- b. Do not back-to-back mount wall receptacles. c. The circuit distance for 20-ampere circuits with #12 AWG wire from the point of home run to the panel shall not exceed 75 feet
- Where the distance exceeds 75 feet, use #10 AWG wire in lieu of #12 AWG wire. d. Do not scale the Electrical Drawings. Secure all dimensions from Architectural Drawings.

#### 6. <u>GROUNDING:</u>

The service equipment, conduit system support cabinets, equipment and neutral conductor shall be grounded in accordance with Article 250 of the latest edition of the National Electrical Code. Grounding conductors shall be routed as to permit, as far as practical, the

#### 7. <u>GUARANTEE:</u>

All materials, equipment and workmanship under this contract shall be guaranteed to be free from defects for a period of one (1) year from the date of acceptance by the Owner.

shortest and most direct path to the ground electrode system. All ground connections shall have a clean contact surface.



# S

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WILMINGTON EYE CLINIC

**SPECIFICATIONS** 

DATE: JUNE 24, 2019 DRAWN BY: SHB CHECKED BY: SAB

PROJECT NO: 2019:004-2329 **REVISIONS:** 

