

CONCEPTUAL RENDERING: RENDERING MAY NOT ACCURATELY REFLECT CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

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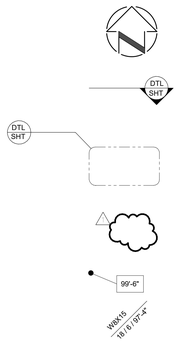
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PROJECT INFORMATION

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CITY, STATE ZIP	PENSACOLA, FLORIDA, 32505
PROJECT NO.	2613
STATUS	BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
OWNER ID	DESIGN & CONSTRUCTION ADMINISTRATION DIVISION ESCAMBIA COUNTY, FLORIDA 100. E BLOUNT STREET PENSACOLA, FL

STRUCTURAL CALLOUTS



NORTH ARROW (PLAN NORTH)

SECTION CALLOUT

PLAN DETAIL CALLOUT

REVISION CLOUD & DELTA

SPOT ELEVATION

COLUMN / PIER CALLOUT

STRUCTURAL PLANS



STRUCTURAL GRID

FACE OF ARCH FINISH (MATL VARIES)

MECHANICAL EQUIPMENT

REINFORCED CONCRETE

STRUCTURAL CONCRETE WALL OR COLUMN IN SECTION

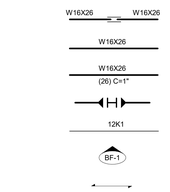
PIERS AND GRADE BEAM FOUNDATION (STRAIGHT OR BELL)

FOOTING AND GRADE BEAM FOUNDATION (SPREAD OR CONT)

STRUCTURAL STEEL FRAMING



STRUCTURAL COLUMNS TUBE, PIPE OR WIDE FLANGE



SPLICE FOR STEEL BEAM DROP-IN-SYSTEM

STEEL FRAMING - PURLIN BEAM OR GIRDER

STEEL BEAM OR GIRDER w/ NO OF HS AND CAMBER

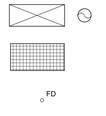
MOMENT CONNECTION

STEEL BAR JOIST

BRACE FRAME DESIGNATION

FLOOR/ROOF DECK SPAN DIRECTION

ZONE FOR METAL DECK SPECIAL WELDING PATTERNS



SLAB/ROOF DECK OPENING

GRATING SYSTEM

FLOOR DRAIN

CMU WALLS

CMU WALL

STRUCTURAL ABBREVIATIONS

ABOVE FINISH FLOOR	AFF	KIPS (1000 LBS.)	K
ADDITIONAL	ADDL	KIP PER LINEAR FOOT	KLF
AMERICAN INSTITUTE OF STEEL CONSTRUCTION	AISC	KIP PER SQUARE FLOOR	KSF
AMERICAN WELDING SOCIETY	AWS	KNOCKOUT PANEL	K/O
ANCHOR BOLT	AB	PANEL	
AMERICAN CONC. INSTITUTE	ACI	LIGHT WEIGHT	LT WT
APPROXIMATE	APPROX	LIVE LOAD	LL
ARCHITECT	ARCH	LONGITUDINAL	LONG
ARCHITECTURAL	ARCH	LONG LEG BACK TO BACK	LLBB
AREA DRAIN	AD	LONG LEG HORIZONTAL	LLH
AIR CONDITIONER	A/C	LONG LEG VERTICAL	LLV
AIR HANDLING UNIT	AHU	LOW	LO
AT	@		
		MANUFACTURER	MFR
BASEMENT	BSMT	MASONRY	MAS
BASE PLATE	B PL	MATERIAL	MATL
BEAM	BM	MAXIMUM	MAX
BEARING	BRG	MECHANICAL	MECH
BELOW FINISH FLOOR	BFF	METAL	MTL
BETWEEN	BTWN	MEZZANINE	MEZZ
BLOCK	BLK	MIDDLE	MID
BLOCKING	BLKG	MINIMUM	MIN
BOTTOM	BOT	MISCELLANEOUS	MISC
BRICK LEDGE	BL	MOMENT CONNECTION	MC
BRIDGING	BRDG		
BUILDING	BLDG	NEAR SIDE	NS
BUILDING LINE	BLDG LINE	NOMINAL	NOM
		NORMAL WEIGHT	N WT
CANTILEVER	CANT	NOT APPLICABLE	NA
CAST-IN-PLACE	CIP	NOT IN CONTRACT	NIC
CEILING	CLG	NOT TO SCALE	NTS
CENTER LINE	CL	NUMBER	NO, #
CLEAR	CLR		
COLUMN	COL	ON CENTER	OC
COLD FORMED METAL	CFM	OPENING	OPNG
COMPRESSION, COMPRESSIBLE	COMP	OPPOSITE	OPP
CONCRETE	CONC	OPPOSITE HAND	OH
CONCRETE MASONRY UNIT	CMU	ORIGINAL	ORIG
CONNECTION	CONNX	OUTSIDE FACE	OF
CONTINUOUS	CONT	OUTSIDE DIAMETER	DD
CONSTRUCTION	CONSTR	PARALLEL	PARAL
CONSTRUCTION JOINT	CJ	PAVEMENT	PVMT
CONTRACTOR	CONTR	PERIMETER	PERIM
COORDINATE	COORD	PERPENDICULAR	PERP
		PLATE	PL
DEGREE	DEG	POST-TENSION	PT
DETAIL	DTL	POUNDS	LBS
DEAD LOAD	DL	POUNDS PER CUBIC FOOT	PCF
DIAGONAL	DIAG	POUNDS PER SQUARE INCH	PSI
DIAMETER	DIA	PRECAST CONCRETE	PC
DIMENSION	DIM	COMPRESSIBLE JOINT FILLER	CJF
DRAWING	DWG	PROJECTION	PROJ
DOUBLE	DBL		
DOUBLE ANGLE	2L	QUANTITY	QTY
DOWEL	DWL		
DOWN	DN	RADIUS	R
		RECOMMENDATIONS	REC
EACH	EA	REFER/REFERENCE	REF
EACH FACE	EF	REINFORCED CONCRETE PIPE	RCP
EACH WAY	EW	REINFORCED, REINFORCING	REINF
ELEVATOR	ELEV	REQUIRED	REQD
EMBEDMENT	EMBED	REQUIREMENT	REQT
ENGINEER	ENG	ROOF DRAIN	RD
EQUAL	EQ	ROOF TOP UNIT	RTU
EQUIPMENT	EQUIP		
EXHAUST FAN	EXF	SCHEDULE	SCHED
EXISTING	EXIST (E)	SECTION	SECT
EXPANSION JOINT	EJ	SHEET	SHT
EXTERIOR	EXT	SHORT LEG BACK TO BACK	SLBB
FABRICATOR, FABRICATE	FAB	SIMILAR	SIM
FACE OF	FO	SLAB ON GRADE	SOG
FACE TO FACE	F TO F	SPACE	SP
FAR SIDE	FS	SPECIFICATION	SPEC
FINISHED FLOOR	FIN FLR	SQUARE	SQ
FLOOR	FLR	SQUARE FOOT/FEET	SF
FLOOR DRAIN	FD	STAINLESS STEEL	SS
FOOT	FT	STANDARD	STD
FOOTING	FTG	STEEL	STL
FOUNDATION	FDN	STEEL STUD MFR. ASSOC.	SSMA
FRAME	FRM	STIFFENER	STIFF
		STRAIGHT	STR
GAGE OR GAUGE	GA	STIRRUPS	STIRR
GALVANIZED	GALV	STRUCTURAL	STRUCT
GENERAL	GEN	SUPPORT	SUPT
GENERAL CONTRACTOR	GC	SYMMETRICAL	SYM
GIRDER TRUSS	GT		
GRADER BEAM	GB	TEMPERATURE	TEMP
		THICK	THK
HEADED STUDS	HS	THREADED ROD	TH RD
HEIGHT	HT	TONGUE AND GROOVE	T&G
HIGH	HI	TOP AND BOTTOM	T&B
HIGH AND LOW	HI & LO	TOP OF	T/O
HORIZONTAL	HORIZ	TOTAL LOAD	TL
		TRANSVERSE	TRANS
INCH	IN	TYPICAL	TYP
INFORMATION	INFO		
INSIDE DIAMETER	ID	UNLESS NOTED OTHERWISE	UNO
INSIDE FACE	IF	VERTICAL	VERT
INTERIOR	INT		
INTERMEDIATE	INTERM	WATERSTOP	WS
		WEIGHT	WT
JOINT	JT	WELDER WIRE FABRIC	WWF
JOIST	JST	WIDE FLANGE BEAM	WF
		WITH	W/
		WITHOUT	W/O
		WORK POINT	WP

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

STRUCTURAL ABBREVIATIONS AND LEGEND **S000**

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," ANSI/AISC 360, LATEST EDITION.
2. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, LATEST EDITION. CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE IN DRAWINGS.
3. ALL W SHAPES SHALL CONFORM TO ASTM A992.

   ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
4. ALL STRUCTURAL STEEL TUBE MEMBERS SHALL CONFORM TO ASTM A500, GRADE C.
5. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
6. ALL STRUCTURAL ROUND SHAPES SHALL CONFORM TO ASTM A53, GRADE B.
7. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123/A123M. ALL STEEL FRAMING THAT COMES IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE COATED TO A G90 THICKNESS AND ALL BOLTS, HEADED STUDS AND CONNECTORS SHALL BE COATED TO A G185 THICKNESS. ALL EXPOSED STRUCTURAL STEEL FRAMING AND ACCESSORIES FOR MECHANICAL EQUIPMENT SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE BOLTS AND PUNCH BEAMS AS REQUIRED BY EQUIPMENT MANUFACTURER'S DETAILS.
8. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
9. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS.
10. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
11. NON-COMPOSITE: THE BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL DEVELOP THE END REACTION OF THE CONNECTED BEAM. THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED FROM THE LOAD CARRYING CAPACITY OF THE BEAM ON THE BASIS OF EQUIVALENT UNIFORM LOADS GIVEN IN PART 3 (FLEXURAL MEMBERS) OF THE AISC MANUAL. THE MINIMUM SHEAR CAPACITY OF THE 12 KIPS SHALL BE PROVIDED FOR ALL BEAMS 8" TO 10" DEEP WITH 8 KIPS FOR BEAMS OF DEPTH LESS THAN 8". ANY REACTIONS GIVEN ON THE DRAWINGS SUPERSEDE THIS NOTE. CONNECTIONS SHALL BE DESIGNED AND DETAILED AS REQUIRED BY PART 9 (DESIGN OF CONNECTING ELEMENTS) OF THE AISC MANUAL. NON COMPOSITE BEAMS SHALL BE DEFINED AS THOSE REQUIRING NO SHEAR CONNECTORS (HEADED STUDS).
12. WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", D1.1. ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE.
13. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
14. FULL AND PARTIAL PENETRATION WELDS PERFORMED IN THE FIELD SHALL BE ULTRASONICALLY TESTED.
15. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1.
16. THE STEEL FABRICATOR IS RESPONSIBLE FOR COORDINATION WITH THE MANUFACTURER OF STEEL JOISTS AND JOIST GIRDERS.
17. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED, AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS SHALL BE CAPABLE OF SECURING THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS.
18. THE LIFTING AND ERECTION OF PRE-ASSEMBLED ELEMENTS SUCH AS TRUSSES OR PRE-FABRICATED FRAMING ARE CONSIDERED SPECIAL ERECTION CONDITIONS. THE SELECTION OF LIFT POINTS AND ERECTION TECHNIQUES ARE THE RESPONSIBILITY OF THE CONTRACTOR. LOCATE AND PROVIDE SUFFICIENT LIFT POINTS TO PREVENT OVERSTRESS AND/OR DISTORTION OF ANY COMPONENTS WITHIN THE ASSEMBLY. PROVIDE TEMPORARY STRONG-BACKS, STIFFENERS AND/OR LIFTING DEVICES AS REQUIRED.
19. ALL GROUT BELOW ALL COLUMN BASE PLATES AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT UNLESS NOTED OTHERWISE.

COMPOSITE STEEL BEAM NOTES

1. NO SHORING IS REQUIRED FOR COMPOSITE BEAMS.
2. ALL SHEAR STUDS SHALL BE 3/4" DIA. x 4 1/2" UNLESS NOTED OTHERWISE, AND CONFORM TO ASTM A-108.
3. ALL SHEAR STUDS SHALL BE APPLIED IN THE FIELD UNLESS NOTED OTHERWISE.
4. SHEAR STUD SPACING IS INDICATED:
   A. (40) SPACED EQUALLY ACROSS THE BEAM SPAN ALONG BEAM CENTERLINE (IN THE METAL DECK FLUTES). WHERE BEAM LENGTH DOES NOT PERMIT SINGLE ROW SPACING, PLACE STUDS IN TANDEM PAIRS SYMMETRICALLY ABOUT THE BEAM CENTER LINE BEGINNING AT EACH END.
   B. (20-5-20) THE TWO OUTSIDE FIGURES INDICATE THE NUMBER OF STUDS REQUIRED AT EACH END OF THE GIRDER OUTSIDE THE SUPPORTED BEAMS AND THE INSIDE FIGURE IS THE NUMBER OF STUDS REQUIRED BETWEEN THE SUPPORTED BEAMS.
   C. WHERE THE NUMBER OF SHEAR STUDS IS NOT INDICATED ON PLANS, PROVIDE A MINIMUM NUMBER OF STUDS SPACED AT THE MAXIMUM STUD SPACING.
5. MAXIMUM SPACING OF SHEAR STUDS IS 2'-0" O.C.
6. BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DETAILED AS REQUIRED BY THE AISC MANUAL TO RESIST REACTIONS NOTED ON PLAN. A MINIMUM SHEAR CAPACITY OF 12 KIPS SHALL BE PROVIDED FOR ALL BEAMS. CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTED CONNECTIONS SHALL USE A MINIMUM OF TWO HIGH STRENGTH BOLTS IN SINGLE OR DOUBLE SHEAR.

STEEL JOIST NOTES

1. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND LOAD TABLE FOR OPEN WEB STEEL JOISTS, ADOPTED BY THE STEEL JOIST INSTITUTE LATEST EDITION.
2. JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE. JOIST ERECTION SHALL CONFORM TO ALL APPLICABLE SAFETY STANDARDS.
3. WHEN SPECIAL JOISTS ARE INDICATED ON PLAN (SP), COMPLY WITH THE STANDARD SPECIFICATIONS AND SPECIAL DESIGN CRITERIA AS NOTED ON THE DRAWINGS. SPECIAL DESIGN CRITERIA MAY INCLUDE LOADING, END MOMENTS, WIND UPLIFT, DEFLECTION LIMITS, MAXIMUM WIDTHS, SPECIAL BRIDGING, BOTTOM CHORD BRACING, CHORD STIFFENERS, BEARING CONDITIONS, SPECIAL SEATS, SPECIAL CHORD CONFIGURATIONS, CLEARANCE FOR DUCTS THROUGH MEMBERS, ETC. PROVIDE ALL ACCESSORIES REQUIRED TO COMPLY WITH THE STANDARD SPECIFICATIONS AND THE DESIGN CRITERIA.
4. DESIGN ALL JOISTS TO RESIST NET WIND UPLIFT FORCES FROM ROOF C&C TABLE ON S-001. JOIST DESIGNER TO ASSUME 10 PSF DEAD LOAD TO RESIST WIND UPLIFT TO GET CALCULATED NET UPLIFT FOR JOIST DESIGN. REFER TO PLANS FOR ANY SPECIAL CONDITIONS.
5. ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, ETC., FROM THE BOTTOM CHORD OF STEEL JOISTS SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS.
6. EXTEND BOTTOM CHORDS OF ALL JOISTS CENTERED ON COLUMNS AND WELD THE BOTTOM CHORDS TO THE COLUMNS AND/OR WALLS EACH END. DO NOT CONNECT BOTTOM CHORDS OF JOISTS TO THE COLUMNS UNTIL THE ROOF (AND/OR) FLOOR DEAD LOAD IS APPLIED.
7. PROVIDE BOTTOM CHORD CEILING EXTENSIONS WHERE REQUIRED BY ARCHITECTURAL DETAILS.
8. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE STEEL JOIST INSTITUTE SPECIFICATIONS FOR OPEN WEB JOISTS. PROVIDE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY AS REQUIRED BY THE STANDARD SPECIFICATIONS, THE GOVERNING BUILDING CODE AND/OR OSHA. PROVIDE ADDITIONAL BRIDGING AS REQUIRED BY DESIGN TO RESIST WIND UPLIFT FORCES INDICATED IN NOTES OR ON DRAWINGS, INCLUDING A SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOISTS.
9. DEPTH OF JOISTS SEATS SHALL BE 2 1/2" FOR SHORT SPAN JOISTS AND 5" FOR LONG SPAN JOISTS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. PROVIDE DOUBLE ANGLES IN LIEU OF RODS FOR BOTTOM CHORD OF ALL JOISTS.
11. JOISTS SHALL BE WELDED TO SUPPORTING STEEL MEMBERS.
12. PROVIDE FLAT BEARING FOR ALL JOISTS.
13. THE FOLLOWING MINIMUM BEARING LENGTHS PARALLEL TO THE LENGTH OF THE JOIST SHALL BE PROVIDED PER SJI STANDARD SPECIFICATIONS.

BEARING ON STEEL	2 1/2"
BEARING ON CONC OR MASONRY W/BEARING PLATE	4"

14. WHERE END ANCHORAGE FOR JOISTS ARE NOT SHOWN OR NOTED, THE FOLLOWING MINIMUM ANCHORAGES SHALL BE PROVIDED:

    STEEL SUPPORTS:

    TWO 1/8" FILLET WELDS x 1" LONG OR EQUIVALENT WELD

    OR

    TWO 1/2" DIA A325 BOLTS.

    CONC OR MASONRY SUPPORTS:

    TWO 1/2" DIA x 6" LONG HEADED STUD ANCHORS WELDED TO STEEL BEARING PLATE AND FULLY EMBEDED IN CONC OR SOLID MASONRY UNIT.
15. JOISTS SHALL BE CAMBERED THE MINIMUM RECOMMENDED CAMBER AS INDICATED IN THE STEEL JOIST INSTITUTE SPECIFICATIONS.
16. WHERE JOISTS ARE UTILIZED, AND COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A JOIST SHALL BE FIELD BOLTED AT COLUMNS (EACH END OF JOIST) TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.
17. DAMAGED JOISTS WILL BE REJECTED. THE CONTRACTOR AND THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING DAMAGED JOISTS. ALL REPAIRS SHALL BE ENGINEERED BY THE JOIST MANUFACTURER AND REPAIR DETAILS, SIGNED AND SEALED BY A REGISTERED ENGINEER (IN THE STATE OF THE PROJECT) SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. AN INDEPENDENT TESTING LAB SHALL INSPECT ALL REPAIRS. AFTER SUCCESSFUL COMPLETION OF THE REPAIR WORK, THE JOIST MANUFACTURER SHALL SUBMIT THE TESTING AGENCY'S REPORTS ALONG WITH A LETTER STATING THAT THE DAMAGED MEMBERS HAVE BEEN SATISFACTORILY REPAIRED.
18. HANGERS AND OTHER SUPPORTS FOR MECHANICAL, ELECTRICAL, PLUMBING, ETC SHALL BE LOCATED AT THE INTERSECTION OF THE CHORD AND WEB (PANEL POINT). CONCENTRATED LOADS IN EXCESS OF 200 LBS MUST BE APPROVED BY THE ENGINEER OF RECORD.
19. ALL PIPING LARGER THAN 4", PARALLEL TO JOISTS, SHALL BE HUNG FROM A MINIMUM OF TWO JOISTS, AND SUPPORTS SHALL BE ATTACHED AT PANEL POINTS ONLY.

SUBGRADE PREPARATION

1. ALL SUBGRADE SHALL BE PREPARED IN STRICT CONFORMANCE TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO THE GEOTECHNICAL REPORT, SUPPLEMENTARY LETTERS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

   THE SUBGRADE SHALL BE IMPROVED TO REDUCE THE POTENTIAL FOR SUBGRADE MOVEMENT TO LESS THAN OF ONE INCH TOTAL SETTLEMENT & 1/2 INCH OF DIFFERENTIAL SETTLEMENT BY RE-COMPACTING IN-SITU SOIL AS APPROVED BY GEOTECH ENGINEER.

   THE FOLLOWING IS A SUMMARY OF THE INFORMATION CONTAINED IN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS:

   A. THE BUILDING EXCAVATION AREA SHALL EXTEND BEYOND THE BUILDING LINE A MINIMUM OF 5 FEET IN GENERAL AT ALL ENTRANCES AND AT AREAS WITH SIDEWALKS/PAVING DIRECTLY ADJACENT TO THE BUILDING.
   B. WITHIN THE BUILDING AREA, EXCAVATE AND REMOVE ALL FILL MATERIAL. REFER TO THE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS OF FILL. THE TESTING LAB SHALL DETERMINE THROUGH FIELD OBSERVATION AND TESTING THAT ALL UNACCEPTABLE FILLS HAVE BEEN REMOVED.
   C. WITHIN THE BUILDING AREA, RE-COMPACT NATIVE SOIL OR IMPORTED FILL AS REQUIRED TO PROVIDE A COMPACTED MATERIAL BENEATH BUILDING AREA. FOOTING THAT HAVE A WIDTH GREATER THAN 3FT IN WIDTH WILL REQUIRE ADDITIONAL 2FT OF SOIL COMPACTION BENEATH FOOTING.
   D. SCARIFY EXPOSED NATIVE SOILS TO A DEPTH OF 12 INCHES FOR FOOTING LESS THAN 3FT IN WIDTH AND RECOMPACT TO A MINIMUM OF 95% OF MODIFIED PROCTOR (ASTM D1557) AT A MINIMUM OF +3 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS DIRECTED IN THE GEOTECHNICAL REPORT.
   K. SELECT FILL SHALL CONSIST OF A SLIGHTLY SILTY SAND OR SILTY/CLAYEY SAND. ALL SELECT FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
   L. SPREAD THE SELECT FILL IN THIN LOOSE LIFTS NOT EXCEEDING 10 TO 12 INCHES THICK FOR SLIGHTLY SILTY SAND OR LIFTS NOT EXCEEDING 6 TO 8 INCHES THICK FOR SILTY/CLAYEY SAND AND UNIFORMLY COMPACT TO A MINIMUM OF 95% OF ASTM D1557 WITHIN +2 OR –2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
   M. PLACE FIRST LIFT OF SELECT FILL WET OF OPTIMUM TO PREVENT DRYING OF THE UNDERLYING SUBGRADE.
   N. PROTECT FILL TO PREVENT DESICCATION PRIOR TO PLACING A SUBSEQUENT LIFT.
2. CONTACT THE GEOTECHNICAL ENGINEER FOR ANY QUESTIONS REGARDING INTERPRETATION OR CLARIFICATION OF THE ABOVE INFORMATION.
3. FOUNDATION AND SUBGRADE PREPARATION SHALL BE MONITORED AND TESTED BY THE SOILS ENGINEER. REFER TO SPECIFICATIONS FOR QUALITY CONTROL REQUIREMENTS.

TRENCH SAFETY

1. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS PREPARED AND SEALED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER AS REQUIRED BY ALL LOCAL AND STATE LAWS. SAID ENGINEER SHALL ALSO BE RESPONSIBLE FOR ON SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTRACTOR SHALL FURNISH A SEPARATE AND DISTINCT PRICE FOR TRENCH SAFETY SYSTEM THAT MEETS OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.

SLAB-ON-GRADE NOTES

1. FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB OVER A 15 MIL VAPOR RETARDER, OVER SUBGRADE PREPARED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. TAPE ALL SEAMS, PENETRATIONS AND TEARS IN THE VAPOR RETARDER WITH A COMPATIBLE WATERPROOF TAPE.
2. REINFORCE SLAB WITH #3 @ 18" CTRS. EACH WAY PLACED AND SUPPORTED ON CHAIRS OR CONCRETE BRIQUETS, AT SLAB MID DEPTH.
3. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTERLINE OF ALL COLUMNS, AND @ 15' O.C. MAXIMUM.
   A. CONSTRUCTION JOINTS WHERE DETAILED ON DRAWINGS.
   B. SAW CUT CONTROL JOINTS ELSEWHERE 1 1/4" DEEP OR ONE QUARTER OF THE SLAB DEPTH DEEP, WHICHEVER IS GREATER.
4. A METAL CONTROL JOINT FORM MAY BE USED IN LIEU OF EITHER OF THE ABOVE.
5. CUT SAW CUT JOINTS WITHIN 8 HOURS OF POURING CONCRETE.
6. CONCRETE FINISHES AND SPRAY ON CURRING / SEALING COMPOUNDS SHALL BE COORDINATED WITH ARCHITECTURAL FLOORING FINISHES FOR COMPATIBILITY.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318- PER GOVERNING BUILDING CODE.
2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS UNLESS NOTED OTHERWISE. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

FOOTING AND SLABS ON GRADE	f'_c = 4,000 psi
SLAB ON METAL DECK	f'_c = 4,000 psi
ALL OTHER CONCRETE	f'_c = 4,000 psi

3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS: REFER TO ACI 318 - SECTION 7.7 FOR CONDITIONS NOT NOTED.

FOOTINGS	3"
SLABS-ON-GRADE	CENTERED
SLABS-ON-METAL DECK	3/4" TOP

4. MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 1 1/2" MAX FOR PIERS AND 1" MAX TYPICAL UNLESS NOTED OTHERWISE.
5. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

SLAB ON METAL DECK	4" MAX, 2" MIN
CONCRETE CONTAINING HRWR	10" MAX
ALL OTHER CONCRETE	5" MAX, 2" MIN

6. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS FOLLOWS:

3/4"	NOMINAL AGGREGATE SIZE	4% TO 8%
1"	NOMINAL AGGREGATE SIZE	3.5% TO 6.5%
1 1/2"	NOMINAL AGGREGATE SIZE	3% TO 6%

7. ALL FOUNDATIONS, CAST IN PLACE WALLS AND PILASTER SHALL BE FORMED ON SIDES. ALL ELEMENTS OF THE FORMS, FORMWORK, BRACING AND SHORING SHALL CONSIST OF WOOD, METAL OR OTHER MANUFACTURED PRODUCTS AS SPECIFIED. EARTH MAY NOT BE USED AS A FORM, EITHER DIRECTLY OR INDIRECTLY. NEITHER EARTH TRENCHES NOR EARTH TRENCHES LINED WITH ANOTHER MATERIAL ARE ACCEPTABLE.
8. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULK HEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
9. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED IN THE STRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD. ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS. WHEN CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS ARE REQUIRED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH JOINT AND A KEY SHALL BE PROVIDED FOR ADEQUATE SHEAR TRANSFER.
10. UNLESS OTHERWISE NOTED OR DETAILED, PROVIDE (2)#5, (1) EACH FACE AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO SIDES OF OPENINGS AND EXTEND 24 INCHES BEYOND CORNERS.
11. PROVIDE EQUIPMENT BASES AND SUPPORTS AS REQUIRED, COMPLYING WITH APPROVED MANUFACTURERS CERTIFIED SHOP DRAWINGS AND DETAILS.
12. SIZE AND LOCATION OF BASES AND EMBEDDED ANCHORS FOR EQUIPMENT SHALL BE COORDINATED WITH EQUIPMENT SUPPLIER AND ALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
13. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED AND APPROVED BY THE ENGINEER OR RECORD.
14. NO ELECTRICAL CONDUIT SHALL BE PLACE ABOVE THE WELDED WIRE FABRIC IN THE SLAB-ON-GRADE OR CONCRETE PLACED ON COMPOSITE METAL DECK. MAXIMUM SIZE OF CONDUIT SHALL BE 1/3 THE SLAB THICKNESS (ABOVE DECK ON COMPOSITE SLAB) INCLUDING CROSSOVERS. CONDUIT SHALL NOT BE PLACED CLOSER THAN 3 DIAMETERS ON CENTER.

NON LOAD-BEARING MASONRY

1. STRUCTURAL MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530 / ASCE 5 - LATEST EDITION.
2. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90, LIGHTWEIGHT, TYPE N, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1900 psi ON THE NET AREA OF THE BLOCK. DESIGN IS BASED ON AN ULTIMATE COMPRESSIVE STRENGTH OF f'm =2500 psi.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S.
4. COARSE GROUT SHALL CONFORM TO ASTM A476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", AND A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi.
5. VERTICAL REINFORCING SHALL BE #6 BARS AT A MAXIMUM SPACING OF 40" O.C. (GROUT ALL CELLS, UNLESS OTHERWISE NOTED ON DRAWINGS. THE FIRST CELL AT CORNERS AND ENDS OF WALLS SHALL BE REINFORCED WITH 1-#6 AND GROUTED FULL. 1-#4 (EXTENDING 2'-0" BEYOND CORNERS) SHALL BE PLACED ON EACH SIDE OF WALL OPENINGS.
6. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
7. REINFORCING STEEL SHALL BE LAPPED 60 BAR DIAMETERS MINIMUM WHERE SPLICED AND SHALL BE WIRED TOGETHER.
8. HORIZONTAL WALL REINFORCING SHALL BE HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C.

DEFERRED SUBMITTALS NOTES

1. DEFERRED SUBMITTALS ARE PORTIONS OF THE OVERALL DESIGN WHICH ARE NOT SUBMITTED AT TIME OF PERMIT APPLICATION AND ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL.
2. DEFERRED SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR SYSTEMS DESIGNED BY THE CONTRACTOR WHICH REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

   REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES.

   APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.
3. FOLLOWING DEFERRED SUBMITTALS ARE TO BE PROVIDED FOR REVIEW:
   A. CONCRETE FORMWORK / RETENTION SYSTEMS
   B. STEEL BEAM AND VERTICAL BRACING CONNECTIONS
   C. STEEL FRAMING CONNECTION CALCULATIONS
   D. STEEL STAIRS
   E. COLD-FORMED METAL FRAMING
   F. EXTERIOR CURTAIN WALL SYSTEM

   SUPPLIER'S ENGINEERS SHALL PROVIDE SIGNED AND SEALED CALCULATIONS WITH THE SUBMITTAL FOR REVIEW.

   REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THE MANUFACTURER/SUPPLIER AND ITS SPECIALTY STRUCTURAL ENGINEER REMAIN RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.

   NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE ENGINEER.
4. FOLLOWING SHOP DRAWINGS ARE TO BE PROVIDED FOR APPROVAL:
   A. CONCRETE MIXES
   B. REINFORCING STEEL
   C. STRUCTURAL STEEL
   D. STEEL JOISTS AND JOIST GIRDERS
   E. METAL DECKING
   F. ELEVATORS

   SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."
5. CONCRETE IS A MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.

   MANY VARIABLES, INCLUDING ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.
6. BEFORE SUBMISSION FOR REVIEW, GENERAL CONTRACTOR SHALL PRE-CHECK SUBMITTALS. SUBMITTALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT REVIEW STAMPS WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.
7. SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS FOR ENGINEER'S PROCESSING AND REVIEW. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

   SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

   TEN DAY REVIEW PERIODS CAN NOT BE HONORED WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED AT ONE TIME. WHEN THIS HAPPENS, THE CONTRACTOR SHALL SUBMIT AN ITEMIZED LIST INDICATING PRIORITIES AND REASONABLE RETURN DATES.

   REVIEW OF RESUBMITTALS WILL BE LIMITED TO ONLY EARLIER COMMENTS AND IS NOT AN EXTENSIVE REVIEW.
8. USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
9. STRUCTURAL FRAMING WAS BASED ON PRE-BID MEP EQUIPMENT AND INITIAL ELEVATOR INFORMATION. MODIFICATIONS MAY BE NECESSARY IF DIFFERENT EQUIPMENT IS SELECTED OR IF DIFFERENT CRITERIA ARE REQUIRED. BASED ON THE EXTENT OF THE CHANGES, ADDITIONAL SERVICES FOR STRUCTURAL REDESIGN MAY BE REQUIRED. GENERAL CONTRACTOR SHALL INCLUDE A CONTINGENCY FOR THIS REVISED DESIGN AND CONSTRUCTION WORK. COSTS OF THE DESIGN AND CONSTRUCTION REVISIONS SHALL BE BORNE BY THE CONTRACTOR.

   GENERAL CONTRACTOR TO SUBMIT FINAL WEIGHTS AND CUT-SHEETS FOR REVIEW AND APPROVAL IF EQUIPMENT DIFFERS FROM WHAT IS SHOWN ON THE CONSTRUCTION DOCUMENTS.

GEOTECHNICAL INFORMATION

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON GEOTECHNICAL REPORT #26-162 PREPARED FOR THIS PROJECT BY LARRY M JACOBS & ASSOCIATES, INC AND DATED MAY 1, 2026 & EMAIL RESPONSE DATED SEPTEMBER 1, 2026.
2. GEOTECHNICAL ENGINEER OF RECORD (GER) IS SOLELY RESPONSIBLE FOR ESTABLISHING FOUNDATION, SLAB-ON-GRADE AND PAVEMENT DESIGN CRITERIA, AND FOR THE CONSTRUCTION RECOMMENDATIONS FOR EXCAVATION, SUBGRADE PREPARATION, BACKFILLING AND COMPACTION.
3. GEOTECHNICAL INFORMATION INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS IS INTENDED TO REPLICATE THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL ENGINEERING REPORT. PRESENTATION OF THIS INFORMATION IN THE STRUCTURAL DOCUMENTS DOES NOT DEMONSTRATE, STATE OR IMPLY GEOTECHNICAL EXPERTISE BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND COMPLY WITH THE RECOMMENDATIONS INDICATED THEREIN.
4. IF DISCREPANCIES BETWEEN THE REPORT AND CONSTRUCTION DOCUMENTS ARE DISCOVERED, THE REPORT SHALL

POST-INSTALLED ANCHOR NOTES

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING OR POST-TENSIONING.

2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

3. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, UNDERCUT ANCHORS AND ADHESIVE ANCHORS. ADHESIVE ANCHORS SHALL CONSIST OF A STRUCTURAL ADHESIVE AND STEEL INSERT. STEEL INSERTS SHALL BE EITHER ASTM F1554, GRADE 36 THREADED ROD OR ASTM A615, GRADE 60 REINFORCING STEEL UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE, STORE AND INSTALL PRODUCTS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

4. EXPANSION ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION ANCHORS SHALL BE EITHER HILTI KWIK BOLT TZ ANCHORS OR SIMPSON STRONG-TIE STRONG-BOLT 2 ANCHORS, UNLESS NOTED OTHERWISE ON DRAWINGS. EXPANSION ANCHORS SHALL BE 3/4" DIAMETER WITH 4 3/4" EMBEDMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5. EXPANSION ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01. EXPANSION ANCHORS IN CMU SHALL BE EITHER HILTI KWIK BOLT 3 ANCHORS OR SIMPSON STRONG-TIE WEDGE-ALL ANCHORS.

6. UNDERCUT ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. UNDERCUT ANCHORS SHALL BE EITHER HILTI HDA ANCHORS OR SIMPSON STRONG-TIE TORQ-CUT ANCHORS, UNLESS NOTED OTHERWISE ON DRAWINGS.

7. STRUCTURAL ADHESIVES FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. STRUCTURAL ADHESIVES SHALL BE HILTI HIT-RE 500-SD EPOXY, HILTI HIT-HY 200-A ADHESIVE, SIMPSON STRONG-TIE SET-XP ADHESIVE OR SIMPSON STRONG-TIE AT-XP ADHESIVE UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO DRAWINGS FOR SIZE AND EMBEDMENT REQUIREMENTS. ALL THREADED RODS USED IN EXTERIOR EXPOSURES SHALL BE GALVANIZED.

8. THE FOLLOWING PARAMETERS HAVE BEEN USED IN THE DESIGN OF ALL ADHESIVE ANCHORS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

   A. MINIMUM AGE OF CONCRETE – 28 DAYS.
   B. CONCRETE TEMPERATURE RANGE FOR ANCHORS NOT EXPOSED TO THE ENVIRONMENT – MAXIMUM SHORT TERM TEMPERATURE OF 104°F; MAXIMUM LONG TERM TEMPERATURE OF 75°F.
   C. CONCRETE TEMPERATURE RANGE FOR ANCHORS EXPOSED TO THE ENVIRONMENT – MAXIMUM SHORT TERM TEMPERATURE OF 150°F; MAXIMUM LONG TERM TEMPERATURE OF 110°F.
   D. MOISTURE CONDITION OF CONCRETE AT THE TIME OF INSTALLATION – DRY CONCRETE
   E. HOLE DRILLING AND PREPARATION – PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

9. STRUCTURAL ADHESIVES FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. STRUCTURAL ADHESIVES SHALL BE HILTI HIT-HY 70 ADHESIVE, SIMPSON STRONG-TIE SET ADHESIVE, OR SIMPSON STRONG-TIE AT ADHESIVE UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO DRAWINGS FOR SIZE AND EMBEDMENT REQUIREMENTS. ALL THREADED RODS USED IN EXTERIOR EXPOSURES SHALL BE GALVANIZED.

10. ANCHOR CAPACITY IS DEPENDANT UPON THE SPACING BETWEEN ADJACENT ANCHORS AND THE PROXIMITY OF ANCHORS TO THE EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH THE SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

11. PRIOR TO PLACEMENT, THE CONTRACTOR SHALL HAVE THE MANUFACTURER'S TECHNICAL REPRESENTATIVE VISIT THE SITE TO INSTRUCT THE CONSTRUCTION TEAM AND TESTING LAB ON PROPER STORAGE AND INSTALLATION TECHNIQUES. THE CONTRACTOR SHALL PROVIDE A LETTER FROM THE MANUFACTURER'S REPRESENTATIVE STATING THAT SUCH A VISIT WAS CONDUCTED.

12. ALL EXPANSION ANCHORS SHALL BE INSPECTED BY AN INDEPENDENT TESTING LAB FOR THE FOLLOWING:

   A. CORRECT LOCATION AND POSITION OF HOLE.
   B. CORRECT HOLE DIAMETER
   C. CORRECT EMBEDMENT DEPTH.
   D. CORRECT BOLT TYPE AND FINISH.
   E. CONDITION OF HOLE IN CONNECTION MATERIAL (NO BURNING OF HOLES ALLOWED).
   F. SNUG TIGHT FIT.

13. ADHESIVE ANCHORS SHALL BE INSPECTED AND TESTED BY AN INDEPENDENT TESTING LAB AS FOLLOWS:

   ALL ANCHORS SHALL BE INSPECTED FOR THE FOLLOWING:

   A. CORRECT LOCATION AND POSITION OF HOLE.
   B. CORRECT THREADED ROD OR REINFORCING BAR SIZE.
   C. CORRECT THREADED ROD OR REINFORCING BAR TYPE AND FINISH.
   D. CONDITION OF HOLE IN CONNECTION MATERIAL (NO BURNING OF HOLES ALLOWED).
   E. SNUG TIGHT FIT.
   F. CORRECT EMBEDMENT DEPTH.
   G. HOLE PREPARATION (INCLUDING DRILL BIT TYPE WHERE CRITICAL TO MANUFACTURER) AND CLEANOUT PER MANUFACTURER'S RECOMMENDATIONS.
   H. ADHESIVE TYPE, EXPIRATION DATE AND METHOD OF STORAGE.
   I. ADHESIVE AND ANCHOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
   J. 10% OF EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF LOADED PER THE MANUFACTURER'S RECOMMENDATIONS. IF 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD, ALL ANCHORS OF THE SAME DIAMETER AND TYPE SHALL BE TESTED.

14. THE TESTING LAB SHALL PREPARE AN INSPECTION REPORT SPECIFICALLY INDICATING DEGREE OF CONFORMANCE IN ALL CATEGORIES LISTED ABOVE.

COMPOSITE FLOOR DECK NOTES

1. COMPOSITE FLOOR CONSTRUCTION SHALL BE 4.5" OF NORMAL WEIGHT CONCRETE OVER 2", 20 GAUGE GAGE GALVANIZED (G60) COMPOSITE METAL DECK (VULCRAFT TYPE VLI OR EQUIVALENT). OVERALL THICKNESS IS 6.5".

   A. DECK SHALL BE INSTALLED IN 3-SPAN LENGTHS ONLY. NO 2-SPAN CONDITIONS WILL BE ALLOWED. VERIFY WITH DECK MANUFACTURERS THAT NO DECK SHORING IS REQUIRED.

   B. REINFORCE SLAB WITH 6x6 W2.1 x W2.1 W.W.F. MAINTAIN 3/4" TOP COVER. LAP ONE MESH AT ENDS AND SIDES.

   C. SEE TYPICAL DETAILS FOR PLACEMENT OF ADDITIONAL REINFORCING REBAR OVER FLOOR GIRDERS AND AT OPENINGS & COLUMNS.

   D. IF STUD SHEAR CONNECTORS ARE USED, DECK UNITS SHOULD BE BUTTED AND NOT LAPPED OVER SUPPORTS.

   E. WELD METAL DECK TO SUPPORTING STEEL PER THE MANUFACTURER'S RECOMMENDATIONS. PER SDI SPECIFICATIONS, THE MAXIMUM SPACING OF ATTACHMENT SHALL NOT EXCEED 16 INCHES. IF STUDS ARE BEING APPLIED THROUGH THE DECK, THE STUD WELDS CAN BE USED TO REPLACE PUDDLE WELDS.

2. UNSHORED BEAMS AND PURLINS WILL DEFLECT DURING CONCRETE PLACEMENT DUE TO THE WEIGHT OF WET CONCRETE. CONCRETE SHALL BE SCREEDED AND FINISHED TO THE SPECIFIED DEPTH. DO NOT ATTEMPT TO PROVIDE A PERFECTLY LEVEL SLAB BY ADDING CONCRETE TO ACHIEVE A LASER LEVEL FINISH.

3. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECKS.

METAL ROOF DECK NOTES

1. ROOF METAL DECK SHALL BE 1 1/2" DEEP, 20 GAGE WIDE RIB GALVANIZED (G60) METAL DECK. (VULCRAFT TYPE 1.5 B 20 OR EQUIVALENT.) ASTM A1008 STRUCTURAL QUALITY MINIMUM YIELD POINT OF 50,000 PSI.

   A. DECK SHALL BE INSTALLED IN 3-SPAN LENGTHS ONLY. NO 2-SPAN CONDITIONS WILL BE ALLOWED.

   B. DECK CONNECTIONS SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLAN):

      PERIMETER ZONE ATTACHMENT (REFER TO ROOF LOADING FOR DIMENSION 'B' ON S-001)

      ATTACH TO SUPPORTS w/ HILTI-HSN24 PAF IN 36/5 PATTERN AND AT 6" OC AT PERIMETER. FASTEN SIDELAPS W/ #10 SCREWS @ 12" PER SPAN.
      LRFD DESIGN DECK SHEAR= 1359PLF UPLIFT= 51PSF

      INTERIOR ZONE ATTACHMENT

      ATTACH TO SUPPORTS W/ HILTI-HSN24 PAF IN 36/5 PATTERN AND AT 6" OC AT PERIMETER. FASTEN SIDELAPS W/ #10 TEK SCREWS @ 12" PER SPAN.
      LRFD DESIGN DECK SHEAR = 832 PLF UPLIFT = 51 PSF

2. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECKS.

COLD FORMED METAL FRAMING NOTES

1. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS AND CONFORM WITH THE PROPERTIES OF LIGHT GAGE MEMBERS AS INDICATED IN THE STEEL STUD MANUFACTURER'S ASSOCIATION – PRODUCT TECHNICAL INFORMATION (ICC-#3064P).

2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" LATEST EDITION.

3. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL (G90), CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 33mil (20 GA) AND 43 mil (18 GA) STUDS, 50 KSI FOR 54 mil AND HEAVIER (16 GA, 14 GA, AND 12 GA) STUDS, AND 33 KSI FOR CR-STYLE RUNNERS.

4. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

5. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.

6. SPLICES IN STUDS SHALL NOT BE PERMITTED.

7. PROVIDE AND INSTALL BRIDGING AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE ASSEMBLY IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AT WALLS THAT DO NOT HAVE SHEATHING ON BOTH FACES, PROVIDE QUANTITY AND TYPE OF BRIDGING TO ADEQUATELY BRIDGE ALL STUDS PER THE MANUFACTURER'S RECOMMENDATIONS.

METAL STAIR NOTES

1. METAL STAIRS ARE A PRE-ENGINEERED SYSTEM THAT SHALL BE DESIGNED AND ENGINEERED BY THE SUPPLIER. METAL STAIRS ARE DEFERRED SUBMITTAL AND TO BE HANDLED PER FBC THE METAL STAIR SYSTEM INCLUDES ALL COMPONENTS OF THE STAIRS (TREADS, STRINGERS, LANDINGS (INTERMEDIATE AND AT FLOOR LEVEL), RAILINGS, ETC.), AND ALL SUPPORT/CONNECTION DEVICES (HANGERS, POSTS AND COLUMNS TO CARRY LANDING BEAMS OR HORIZONTAL FRAMING, CLIPS, ANCHORAGES, ETC.).

2. REFER TO ARCHITECTURAL DRAWINGS FOR MATERIALS, CONFIGURATIONS, DIMENSIONS, DESIGNS, EXTENT AND FINISHES. COORDINATE FIT OF STAIR SYSTEM WITH THE ROUGH OPENINGS SHOWN ON THE STRUCTURAL DOCUMENTS.

3. THE STRUCTURAL DESIGN SHALL BE PERFORMED BY AN ENGINEER THAT IS LEGALLY QUALIFIED (LICENSED OR REGISTERED) TO PRACTICE IN THE JURISDICTION WHERE THIS PROJECT IS LOCATED, AND WHO IS EXPERIENCED IN THE DESIGN OF METAL STAIRS AND HAND RAIL SYSTEMS. SUBMITTALS WHICH DO NOT BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER WILL BE RETURNED REJECTED.

4. THE STRUCTURAL DESIGN SHALL BE IN CONFORMANCE WITH THE LOCAL BUILDING CODE AS NOTED IN THE GENERAL NOTES FOR THIS PROJECT, WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AND WITH THE AISC CODE OF STANDARD PRACTICE.

5. THE STAIR SYSTEM SHALL BE DESIGNED TO MEET THE FOLLOWING MINIMUM PERFORMANCE CRITERIA (REFER TO SPECIFICATIONS FOR ADDITIONAL, SPECIAL OR MORE RESTRICTIVE CRITERIA):

   A. UNIFORM LIVE LOAD: ---------- 100 psf
   B. CONCENTRATED LIVE LOAD: ---------- 300 pounds (OVER 4 SQ. IN.)
   C. MAX. LIVE LOAD DEFLECTION: ---------- L/480
   D. MAX. TOTAL LOAD DEFLECTION: ---------- L/360

6. POST INSTALLED ANCHORAGES TO MASONRY WALLS SHALL BE LIMITED TO THE USE OF ADHESIVE ANCHORING SYSTEMS (HILTI HIT HY200 ADHESIVE ANCHORING SYSTEM OR EQUAL) INSTALLED IN FULLY GROUTED CELLS. EXPANSION ANCHORS WILL BE ALLOWED IN CONCRETE ONLY. ANCHORS SHALL BE CLOSELY COORDINATED WITH THE PLACEMENT OF REINFORCING STEEL. TO THE GREATEST EXTENT POSSIBLE, ANCHORAGES SHALL BE LIMITED TO SHEAR CONDITIONS ONLY. ANCHORAGES IN TENSION SHALL BE AVOIDED.

7. ENGINEER'S REVIEW OF STAIR SHOP DRAWINGS WILL BE LIMITED TO THE INTERFACE BETWEEN STAIR SYSTEM AND BUILDING STRUCTURE. THIS REVIEW WILL CHECK THE COMPATIBILITY OF LOADS AND POSITIONS OF LOADS IMPARTED ONTO THE BUILDING STRUCTURE, AND COMPATIBILITY OF THE CONNECTIONS WITH THE BUILDING STRUCTURE. THE STRUCTURAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE STAIR SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE STAIRS AND THE CONNECTIONS TO THE BUILDING STRUCTURE. SHOP DRAWINGS SHALL CLEARLY IDENTIFY THE FOLLOWING:

   A. PROJECT IDENTITY AND LOCATION
   B. SUPPLIER/FABRICATOR IDENTITY AND ADDRESS
   C. ENGINEERS IDENTITY AND ADDRESS
   D. CONFORMANCE WITH THE APPLICABLE BUILDING CODES.
   E. DESIGN LOADING CRITERIA.
   F. DESIGN DEFLECTION CRITERIA.
   G. CONNECTIONS TO THE STRUCTURE (CLEARLY IDENTIFIED AND DETAILED).
   H. SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE STAIR SYSTEM. SUBMITTALS WHICH DO NOT BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER WILL BE RETURNED REJECTED.

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

GENERAL NOTES (CONTINUED) **S002**

REQUIRED VERIFICATION AND INSPECTION OF CMU CONSTRUCTION

1. SPECIAL INSPECTIONS FOR CMU CONSTRUCTION ARE BASED ON QUALITY ASSURANCE LEVEL 2 AND MINIMUM INSPECTIONS AS REQUIRED IN THE FOLLOWING TABLES.

QUALITY ASSURANCE VERIFICATIONS	ACTION	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	VERIFY	TMS 602 ART 1.5		
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND FACC, EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE	VERIFY	TMS 602 ART 1.4B		
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	VERIFY	TMS 602 ART 1.5 & 1.6.3		
4. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND FACC FOR EVERY 5,000 SQUARE FEET	NO ACTION	TMS 602 ART 1.4B		
5. DURING CONSTRUCTION, VERIFICATION OF DESIGNATIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT	NO ACTION	TMS 602 ART 1.4B		

MINIMUM INSPECTIONS TASK	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE.					1705.4	042000, 3.13
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		TMS 602 ART 2.1 & 2.6A & 2.6C		
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS,		X		TMS 602 ART 3.4 & 3.4A		
d. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[b]	X[c]		TMS ART 2.1 C.1		
e. SAMPLE PANEL CONSTRUCTION		X		TMS 602 ART 1.6D		
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE						
a. GROUT SPACE		X		TMS 602 ART 3.2D & 3.2F		
b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X		TMS 402 SEC. 6.1, 6.3.1 6.3.6, 6.3.7 TMS 602 ART 3.2E & 3.4		
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION						
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		TMS 602 ART 1.5		
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		TMS 602 ART 3.3B		
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		TMS 602 ART 3.3F		
d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X		TMS 402 SEC. 1.2.1(e), 6.2.1 & 6.3.1		
e. WELDING OF REINFORCEMENT	X			TMS 402 SEC. 6.1.6.1.2		
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)			X	TMS 602 ART 1.8C & D		
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X[b]	X[c]		TMS 602 ART 3.3 B.9 & 3.3 F.1.b		
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.		X		TMS 602 ART 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, B.3.B.1.4 B.4		

(b) REQUIRED FOR THE FIRST 5,000 SQUARE FEET OF AAC MASONRY.
(c) REQUIRED AFTER THE FIRST 5,000 SQUARE FEET OF AAC MASONRY.

REQUIRED VERIFICATION AND INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

1. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND GIRDERS IN BUILDINGS, STRUCTURES AND PORTIONS THERE OF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE COMPLIANCE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.					1705.2.3	052100, PART 3, FIELD QUALITY CONTROL
a. END CONNECTIONS - WELDING OR BOLTED.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
b. BRIDGING - HORIZONTAL OR DIAGONAL						
1. STANDARD BRIDGING.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
2. BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X				

REQUIRED VERIFICATION AND INSPECTION OF METAL DECK CONSTRUCTION

1. SPECIAL INSPECTIONS OF METAL DECKING IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT				MANUFACTURER'S APPROVED SHOP DRAWINGS	IBC 1705.2.2 SDI QA/QC	053000, 3.04
a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS			X			
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES			X			
2. INSPECTION OR EXECUTION TASKS AFTER TO DECK PLACEMENT						
a. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS			X			
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES			X			
c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES			X			
3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING						
a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE			X			
b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE			X			
c. MATERIAL IDENTIFICATION (TYPE/GRADE)			X			
d. CHECK WELDING EQUIPMENT			X			
4. INSPECTION OR EXECUTION TASKS DURING WELDING						
a. USE OF QUALIFIED WELDERS			X			
b. CONTROL AND HANDLING OF WELDING CONSUMABLES			X			
c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)			X			
d. WPS FOLLOWED			X			
5. INSPECTION OR EXECUTION TASKS AFTER WELDING						
a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.			X			
b. WELDS MEET VISUAL ACCEPTANCE CRITERIA			X			
c. VERIFY REPAIR ACTIVITIES			X			
d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS			X			
6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING						
a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS			X			
b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION			X			
c. PROPER STORAGE FOR MECHANICAL FASTENERS			X			
7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING						
a. FASTENERS ARE POSITIONED AS REQUIRED			X			
b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION			X			
8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING						
a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS			X			
b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS			X			
c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS			X			
d. VERIFY REPAIR ACTIVITIES			X			
e. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS			X			

REQUIRED VERIFICATION AND INSPECTION OF LIGHT GAUGE METAL FRAMING

1. SPECIAL INSPECTIONS FOR LIGHT GAUGE METAL FRAMING CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. SPECIAL INSPECTIONS OF THE FABRICATION PROCESS OF PREFABRICATED LIGHT GAUGE METAL STRUCTURAL ELEMENTS AND ASSEMBLIES.		X		APPROVED CONSTRUCTION DOCUMENTS	1705.2.4	054000
2. SHEAR WALLS, FLOOR DIAPHRAGMS, AND ROOF DIAPHRAGMS:		X				
a. THE SPECIAL INSPECTOR SHALL INSPECT THE WOOD OR GYPSUM PANEL SHEATHING TO ASCERTAIN WHETHER IT IS OF THE GRADE AND THICKNESS SHOWN ON THE APPROVED BUILDING PLANS.		X				
b. THE SPECIAL INSPECTOR SHALL VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES; THE NAIL OR STAPLE DIAMETER AND LENGTH; THE NUMBER OF FASTENER LINES AND THAT SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED CONSTRUCTION DOCUMENTS.		X				
3. THE SPECIAL INSPECTOR SHALL VERIFY STUD, BEAM, AND POST SIZE, GAUGE AND ORIENTATION.		X				

REQUIRED SPECIAL INSPECTION AND TESTS OF STEEL CONSTRUCTION

1. SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, AS REQUIRED IN THE FOLLOWING TABLES.

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.		X				
2. WPS AVAILABLE.	X					
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X					
4. MATERIAL IDENTIFICATION (TYPE/GRADE).		X				
5. WELDER IDENTIFICATION SYSTEM.[a]		X				
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY). a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION). e. BACKING TYPE AND FIT (IF APPLICABLE).		X				
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY). a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION).		X				
8. CONFIGURATION AND FINISH OF ACCESS HOLES.		X				
9. FIT-UP OF FILLET WELDS. a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT). b. CLEANLINESS (CONDITION OF STEEL SURFACES). c. TACKING (TACK WELD QUALITY AND LOCATION).		X				
10. CHECK WELDING EQUIPMENT.	X					

[a] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. CONTROL AND HANDLING OF WELDING CONSUMABLES. a. PACKAGING. b. EXPOSURE CONTROL.		X				
2. NO WELDING OVER CRACKED TACK WELDS.		X				
3. ENVIRONMENTAL CONDITIONS. a. WIND SPEED WITHIN LIMITS. b. PRECIPITATION AND TEMPERATURE.		X				
4. WPS FOLLOWED. a. SETTINGS ON WELDING EQUIPMENT. b. TRAVEL SPEED. c. SELECTED WELDING MATERIALS. d. SHIELDING GAS TYPE/FLOW RATE. e. PREHEAT APPLIED. f. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) g. PROPER POSITION (F, V, H, OH).		X				
5. WELDING TECHNIQUES. a. SEQUENCE AND FINAL CLEANING. b. EACH PASS WITHIN PROFILE LIMITATIONS. c. EACH PASS MEETS QUALITY REQUIREMENTS.		X				
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	X					

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDS CLEANED.		X				
2. SIZE, LENGTH AND LOCATION OF WELDS.	X					
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA. a. CRACK PROHIBITION. b. WELD/BASE-METAL FUSION. c. CRATER CROSS SECTION. d. WELD PROFILES. e. WELD SIZE. f. UNDERCUT. g. POROSITY.	X					
4. ARC STRIKES.	X					
5. a-AREA [a]	X					
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES. [b]	X					
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X					
8. REPAIR ACTIVITIES.	X					
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X					
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.		X				

[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE a-AREA, VISUALLY INSPECT THE WEB A-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.

[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

STRUCTURAL STEEL INSPECTION CONTINUED

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X					
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.		X				
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).		X				
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.		X				
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.		X				
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.		X				
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.		X				

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.		X				
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.		X				
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.		X				
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.		X				

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X					

INSPECTION OF FABRICATORS

1. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION.
2. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THIS CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING OFFICIAL.
3. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED AGENCY AT COMPLETION OF FABRICATION. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AUTHORIZED AGENT IN SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS

REQUIRED VERIFICATION AND INSPECTION OF SOILS

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR SUBGRADE SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE CONSTRUCTION DOCUMENTS SHALL BE USED TO DETERMINE COMPLIANCE.
3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X				
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X				
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS IN ACCORDANCE WITH PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT, VERIFY DENSITY AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X					
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X				

REQUIRED VERIFICATION AND INSPECTION OF THE UNDERSLAB DRAINAGE COURSE

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR THE UNDERSLAB DRAINAGE COURSE SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE APPROVED CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS, SHALL BE USED TO DETERMINE COMPLIANCE.
3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. SITE PREPARATION: PRIOR TO PLACEMENT OF THE DRAINAGE COURSE, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
2. DURING DRAINAGE COURSE PLACEMENT: DURING PLACEMENT AND COMPACTION OF THE DRAINAGE COURSE MATERIAL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED, THE MAXIMUM LIFT THICKNESS, THE OVERALL DEPTH OF MATERIAL AND THE USE OF FILTER FABRICS COMPLY WITH THE APPROVED GEOTECHNICAL REPORT.		X				
3. DURING INSTALLATION OF FILTER FABRICS, DRAINAGE MATS AND OTHER GEOTEXTILE FABRICS, THE SPECIAL INSPECTOR SHALL CONFIRM THAT THE MATERIALS AND METHOD OF INSTALLATION COMPLY WITH THE APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS.		X				
4. EVALUATION OF IN-PLACE DENSITY: THE SPECIAL INSPECTOR SHALL DETERMINE, AT THE APPROVED FREQUENCY, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED MATERIAL COMPLIES WITH THE APPROVED REPORT.		X				

REQUIRED VERIFICATION AND INSPECTION OF WALL BACKFILL

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR THE PERIMETER GRADE BEAM BACKFILL SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE APPROVED CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS, SHALL BE USED TO DETERMINE COMPLIANCE.
3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. DURING FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED, THE MAXIMUM LIFT THICKNESS, AND THE OVERALL DEPTH OF FILL COMPLY WITH THE APPROVED GEOTECHNICAL REPORT.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
a. WHERE UTILITY TRENCHES INTERSECT THE PERIMETER FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT MATERIALS AND TECHNIQUES USED TO PROVIDE A POSITIVE CUT-OFF TO PREVENT WATER MIGRATION ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.		X				
b. AT BUILDING ENTRANCES, THE SPECIAL INSPECTOR SHALL DETERMINE THAT MATERIALS USED ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT THEY ARE EXTENDED FROM THE FACE OF BUILDING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.		X				
2. EVALUATION OF IN-PLACE DENSITY: THE SPECIAL INSPECTOR SHALL DETERMINE, AT THE APPROVED FREQUENCY, THAT THE MOISTURE CONTENT OF THE SOIL AND THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE APPROVED REPORT.		X				

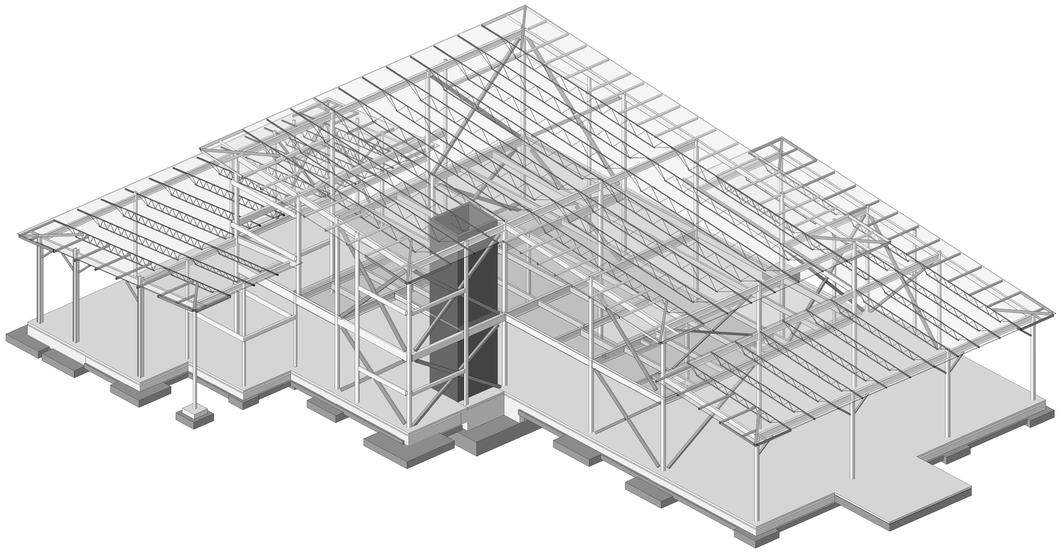
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X		ACI 318 CH.20, 25.2, 25.3, 26.6.1-26.6.3		032000, 3.02
2. REINFORCING BAR WELDING:						
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		AWS D1.4 ACI 318: 26.6.4	-	032000, 3.02
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND		X				
c. INSPECT ALL OTHER WELDS	X					
3. INSPECT ANCHORS CAST IN CONCRETE		X		ACI 318: 17.8.2	-	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS						
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X			ACI 318:17.8.2.4		
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X		ACI 318: 17.8.2		
5. VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2	033000, 3.03
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, ASTM C31, ACI 318: 26.5, 26.12		033000, 3.03
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			ACI 318: 26.5	1908.6, 1908.7, 1908.8	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X			ACI 318: 26.4.7-26.4.9	1908.9	033000, 3.03
9. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		ACI 318: Ch. 26.11.2	-	033000, 3.03; 033816, 3.04
10. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	X			ACI 318:26.10.1(b)	-	031000, 3.05

STATEMENT OF SPECIAL INSPECTIONS

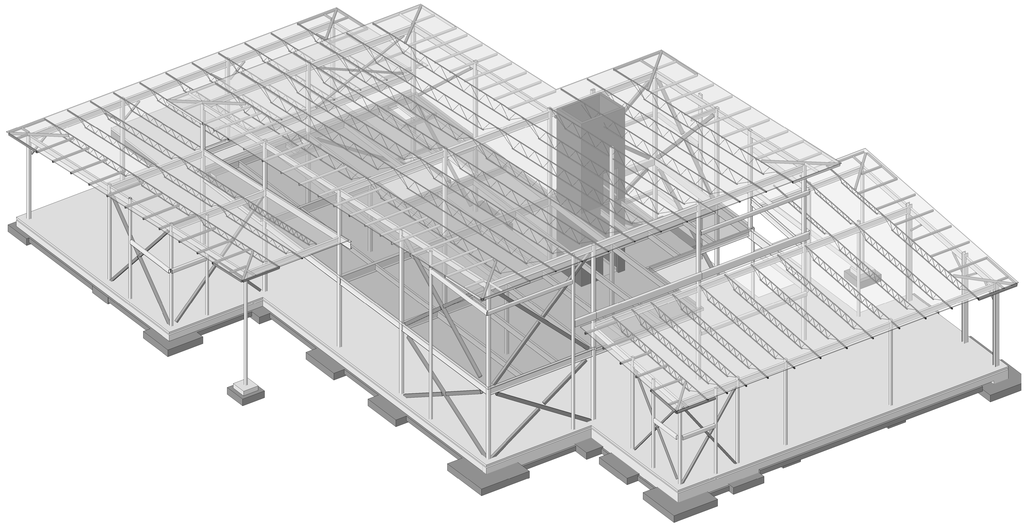
1. INFORMATION ON THIS SHEET IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PROVISIONS OF THE 8th EDITION OF FLORIDA BUILDING CODE. THIS INFORMATION CONSTITUTES THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT.
2. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HEREIN.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. THE SPECIAL INSPECTOR SHALL FULFILL THE FOLLOWING REPORT REQUIREMENTS:
   a. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS.
   b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE GENERAL CONTRACTOR, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. IN ADDITION, REPORTS RELATED TO GEOTECHNICAL ISSUES SHALL BE DISTRIBUTED TO THE GEOTECHNICAL ENGINEER. WHEN TESTS OR INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS, THE SPECIAL INSPECTOR SHALL NOTIFY THE OWNER, CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER BY PHONE ON THE DAY OF THE TEST OR INSPECTION AND SHALL FOLLOW THAT CALL WITH AN EXPEDITED WRITTEN REPORT WITHIN ONE BUSINESS DAY. ALL OTHER REPORTS SHALL BE SUBMITTED WITHIN 5 BUSINESS DAYS OF THE EVENT DOCUMENTED.
   c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
   d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
   e. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITHIN ONE BUSINESS DAY. A FINAL REPORT DOCUM



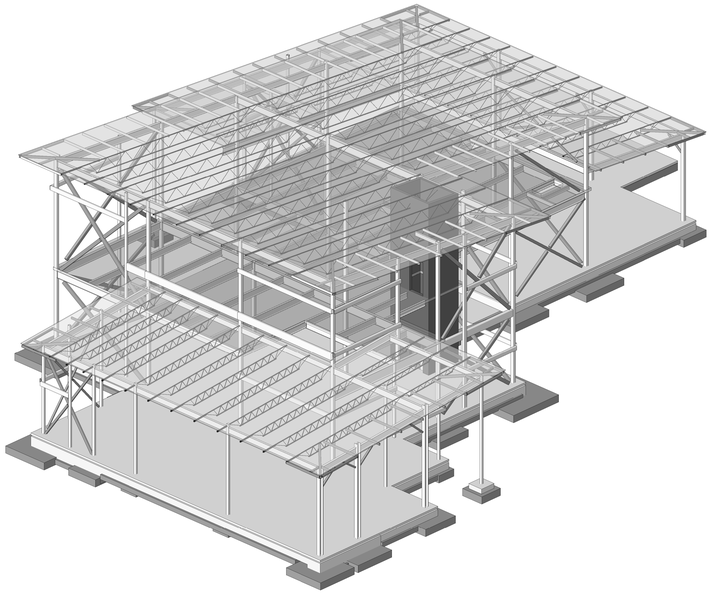
03 ISOMETRIC VIEW

NOTES:

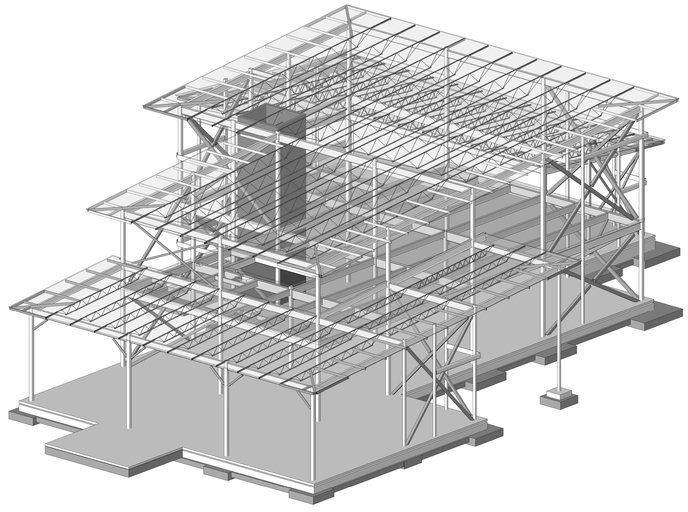
1. ISOMETRIC VIEW IS FOR REFERENCE ONLY. THIS DRAWING IS NOT TO BE USED FOR SCALE, DETAILING OR QUANTITIES.
2. ONLY PRIMARY STRUCTURE IS SHOWN IN THIS VIEW. REFER TO PLANS & DETAILS FOR CONNECTIONS AND MISCELLANEOUS STEEL REQUIRED.



01 ISOMETRIC VIEW



04 ISOMETRIC VIEW



02 ISOMETRIC VIEW

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

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Discipline:
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Discipline:
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P - 214.749.0333

Discipline:
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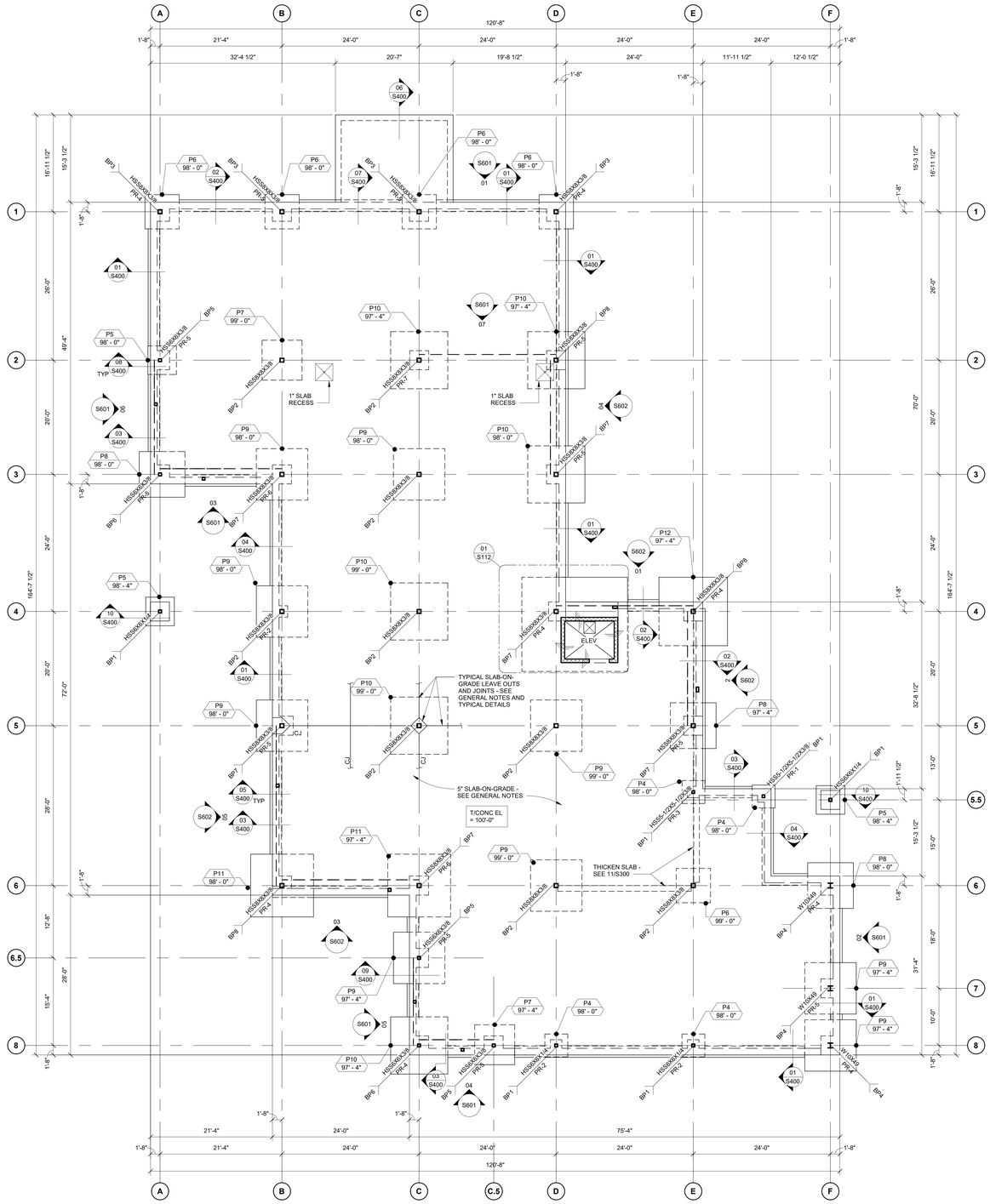
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

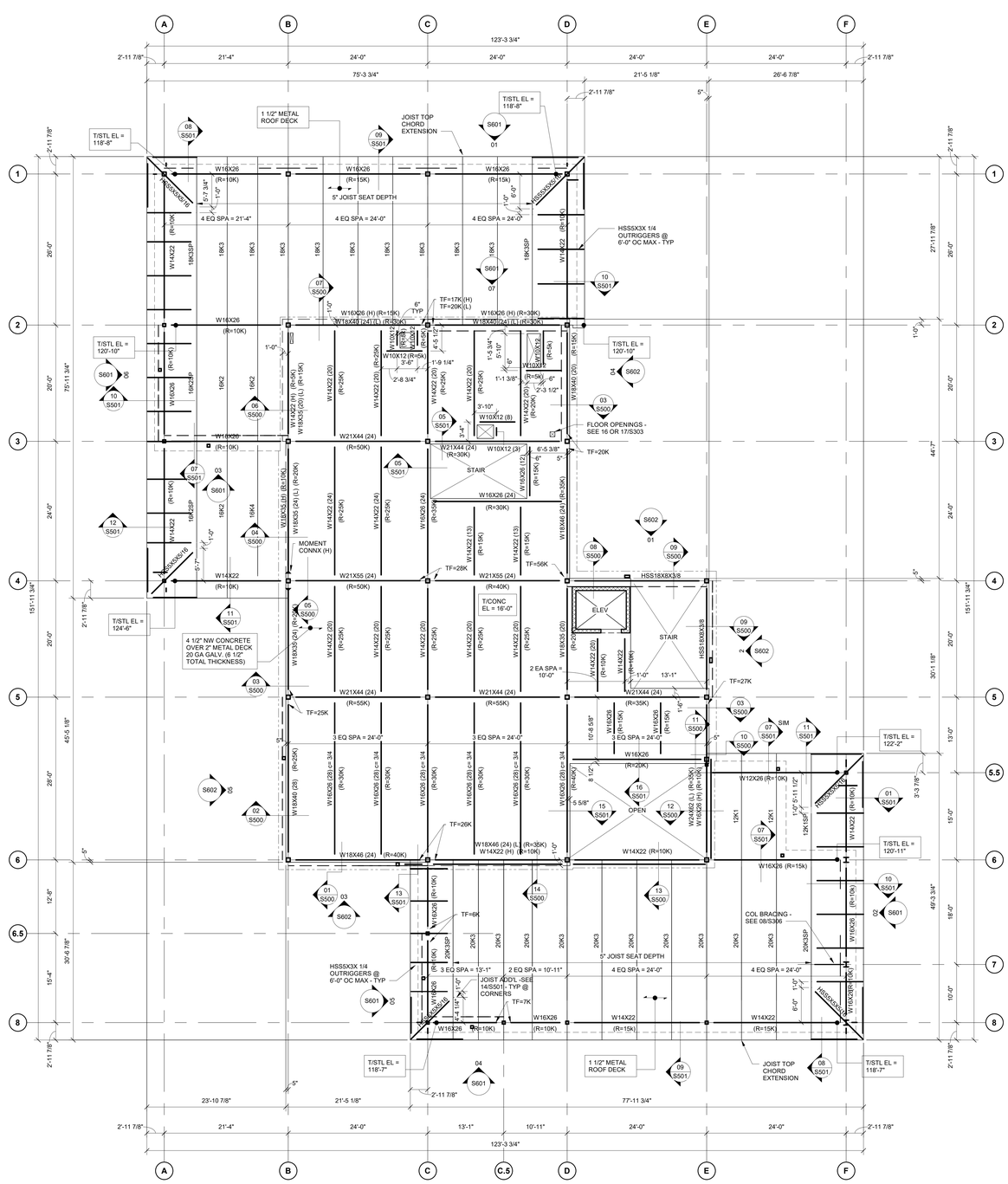
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

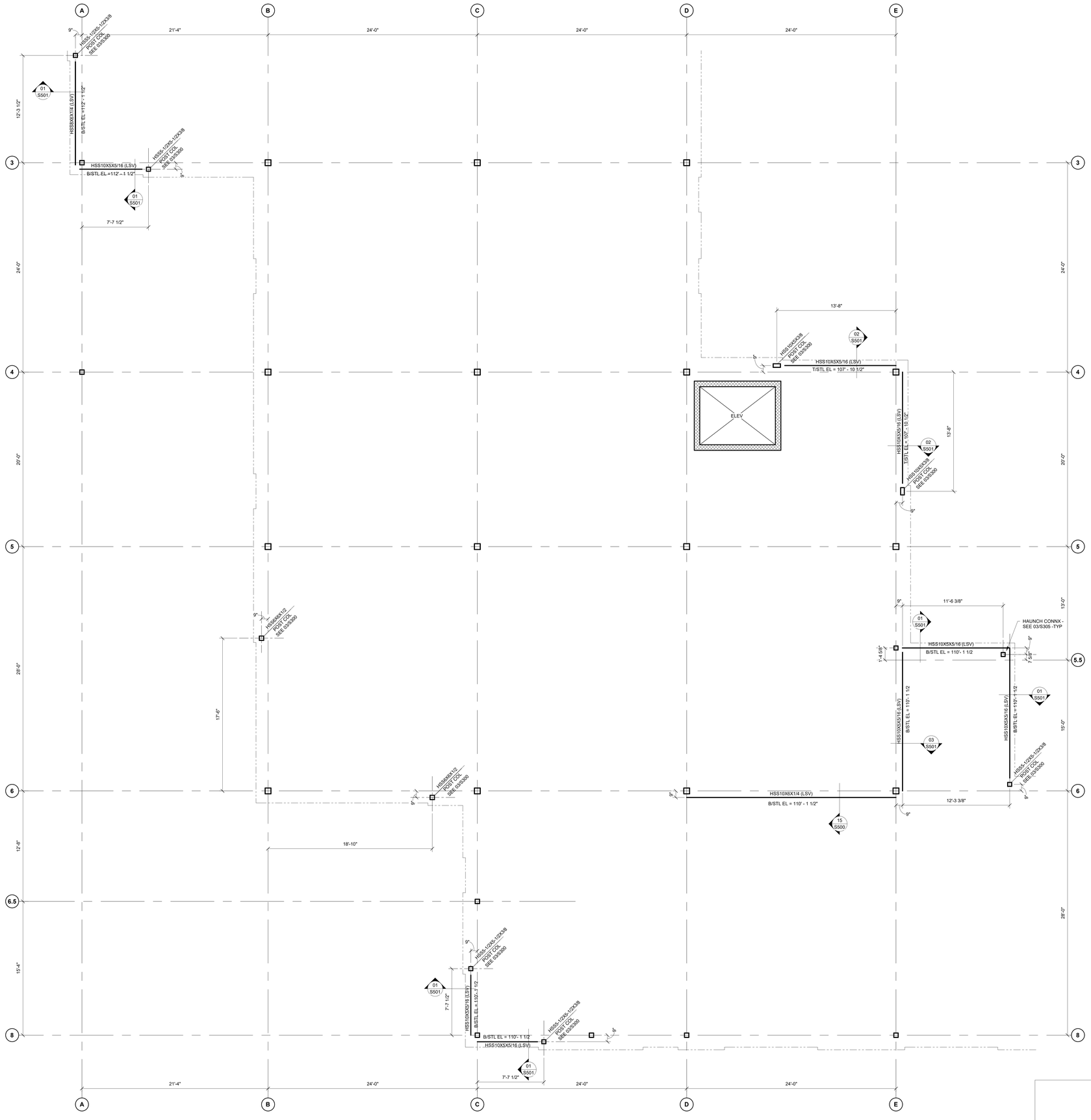
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ISOMETRIC VIEWS **S004**




A
B
C
C.5
D
E
F
1
2
3
4
5
6
6.5
8
123'-3 3/4"
2'-11 7/8"
21'-4"
24'-0"
75'-3 3/4"
21'-5 1/8"
26'-6 7/8"
5"
151'-11 3/4"
75'-11 3/4"
44'-7"
27'-11 7/8"
26'-0"
20'-0"
40'-5 1/8"
30'-6 7/8"
49'-3 3/4"
30'-1 1/8"
15'-0"
13'-0"
10'-0"
1'-0"
T/STL EL = 118'-8"
T/STL EL = 120'-10"
T/STL EL = 124'-6"
T/STL EL = 122'-2"
T/STL EL = 120'-11"
T/STL EL = 118'-7"
1 1/2" METAL ROOF DECK
JOIST TOP CHORD EXTENSION
5" JOIST SEAT DEPTH
4 EQ SPA = 21'-4"
4 EQ SPA = 24'-0"
3 EQ SPA = 24'-0"
2 EQ SPA = 10'-11"
3 EQ SPA = 13'-1"
2 EA SPA = 10'-0"
HSS5X3X 1/4 OUTRIGGERS @ 6'-0" OC MAX - TYP
4 1/2" NW CONCRETE OVER 2" METAL DECK 20 GA GALV. (6 1/2" TOTAL THICKNESS)
MOMENT CONNX (H)
FLOOR OPENINGS - SEE 16 OR 17/S303
COL BRACING - SEE 08/S306
JOIST ADD'L -SEE 14/S501 - TYP @ CORNERS
STAIR
ELEV
OPEN
T/CONC EL = 16'-0"
TF=17K (H) TF=20K (L)
TF=20K
TF=28K
TF=56K
TF=27K
TF=25K
TF=26K
TF=6K
TF=7K
W16X26 (H) (R=19K)
W18X46[24](L) (R=35K)
W16X26 (H) (R=39K)
W21X44 (24) (R=30K)
W21X44 (24) (R=50K)
W21X44 (24) (R=55K)
W21X55 (24) (R=40K)
W21X55 (24) (R=50K)
W18X46 (24) (R=40K)
W14X22 (R=10K)
W16X26 (R=15k)
W16X26 (R=20K)
W16X26 (R=10K)
W16X26 (R=15K)
W16X26 (R=25K)
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W16X26 (R=50K)
W16X26 (R=54K)
W16X26 (R=39K)
W16X26 (R=15K)
W16X26 (R=10K)
W16X26 (R=8K)
W16X26 (R=5K)
W16X26 (R=0K)
W16X26 (R=10K)
W16X26 (R=15K)
W16X26 (R=20



01 ENLARGED FLOOR FRAMING PLAN

1/4" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO LEVEL 1 FINISHED FLOOR EL = 100'-0" (79.50'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S000 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
4. XXX'-X" - DENOTES TOP OF SLAB ELEVATION.
5. - DENOTES MOMENT CONNECTION - SEE S304 FOR TYPICAL DETAILS.
6. BF-X - DENOTES BRACED FRAME ELEVATION - SEE S600.
7. JOIST MANUFACTURER SHALL DESIGN JOIST CHORD EXTENSION FOR TYPICAL UNIFORM LOADING (20 PSF DEAD, 20 PSF ROOF LIVE) PLUS SPECIFIC LOADING SHOWN IN SECTION.
8. ALL ROOF LEVEL BEAMS SHALL HAVE BOTTOM FLANGES BRACED PER 10/S306.
9. FLOOR LEVEL BEAMS THAT ARE APPART OF BRACE FRAME OR HAVE TRANSFER LOADING ON SHALL HAVE THE BOTTOM FLANGE BRACED PER 02/S302.
10. ALL BEAMS IN X-BRACED FRAMES, MOMENT FRAMES AND BEAMS WITH TRANSFER LOADS SUPPORTING JOISTS SHALL HAVE DECK SHEAR TRANSFER SPACERS TO TRANSFER DECK SHEAR TO THE BEAMS PER 12/S306

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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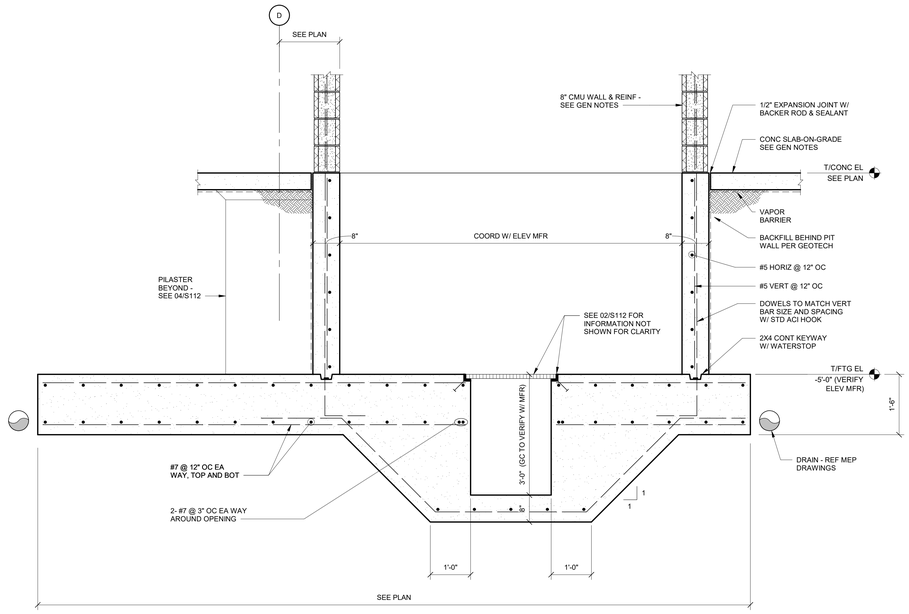
Discipline: Owner Consultant
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OWNER ID:
Design and Construction Administration Division
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100 E. BLOUNT ST. PENSACOLA, FL 32501

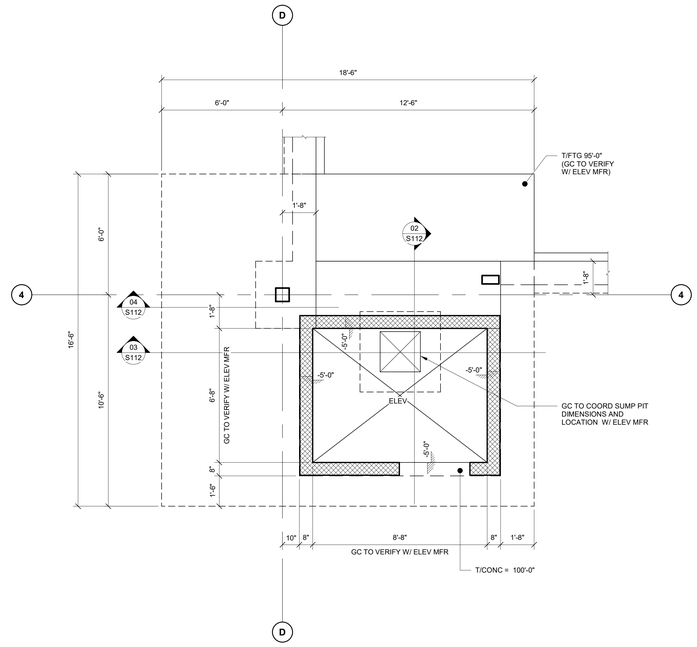
Revisions

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DATE 10/22/2026
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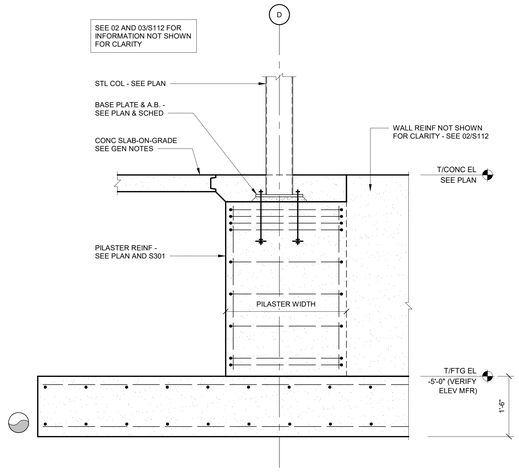
ENLARGED FLOOR FRAMING PLAN **S111**



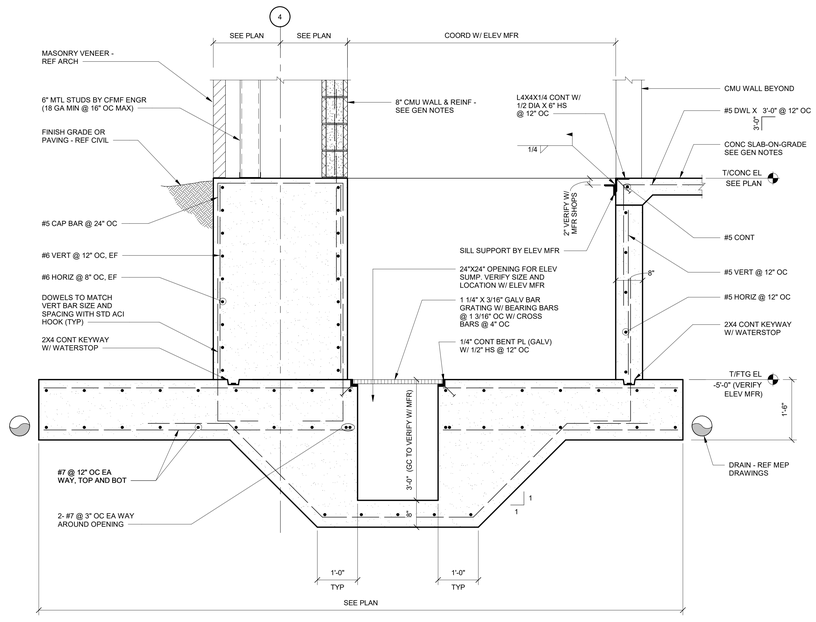
03



01 ENLARGED FOUNDATION PLAN - ELEVATOR
3/8" = 1'-0"



04



02

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
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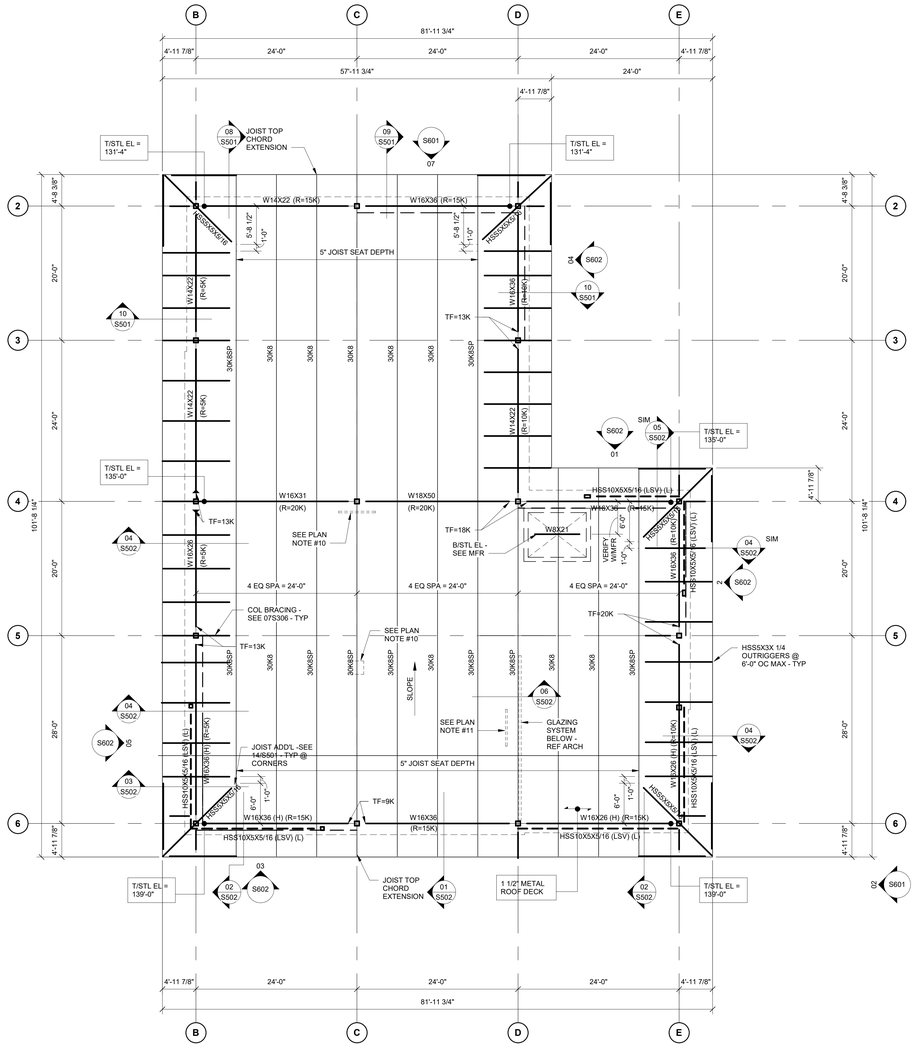
Discipline: Owner Consultant
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P - 309.231.8272

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Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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ENLARGED FLOOR FRAMING PLAN **S112**



N

01 HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO LEVEL 1 FINISHED FLOOR EL = 100'-0" (79.50'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S300 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
4. XXX'-X" - DENOTES TOP OF STEEL ELEVATION (METAL DECK BEARING).
5. ▶— - DENOTES MOMENT CONNECTION - SEE S304 FOR TYPICAL DETAILS.
6. BF-X - DENOTES BRACED FRAME ELEVATION - SEE S600.
7. JOIST MANUFACTURER SHALL DESIGN JOIST CHORD EXTENSION FOR TYPICAL UNIFORM LOADING (20 PSF DEAD, 20 PSF ROOF LIVE) PLUS SPECIFIC LOADING SHOWN IN SECTION.
8. ALL ROOF LEVEL BEAMS SHALL HAVE BOTTOM FLANGES BRACED PER 10/S306.
9. ALL BEAMS IN X-BRACED FRAMES, MOMENT FRAMES AND BEAMS WITH TRANSFER LOADS SUPPORTING JOISTS SHALL HAVE DECK SHEAR TRANSFER SPACERS TO TRANSFER DECK SHEAR TO THE BEAMS PER 12/S306.
10. ALL PROJECTOR & PROJECTOR SCREEN SUPPORT FRAMES SHALL BE DESIGNED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WEIGHTS & LOCATION WITH JOIST MANUFACTURE.
11. HANGING TV SUPPORT FRAME SHALL BE DESIGNED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WEIGHTS & LOCATION WITH THE JOIST MANUFACTURE.

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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Discipline:
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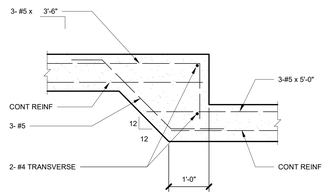
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Discipline: Owner Consultant
OSC SERVICES, LLC
PMB #69
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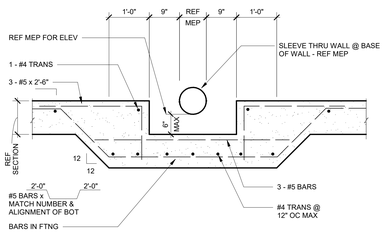
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ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

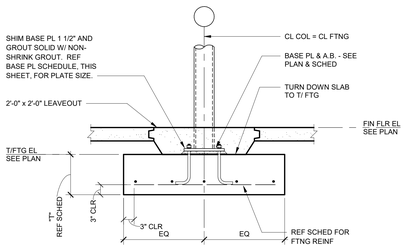
PROJECT NO. 2613
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DATE 10/22/2026
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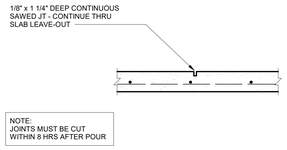
15 **TYPICAL STEP IN FOOTING**



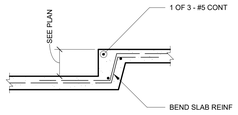
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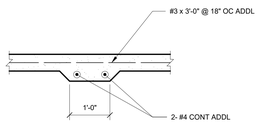
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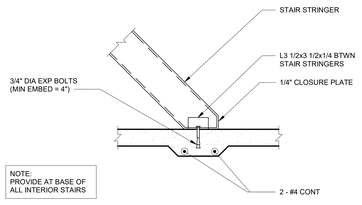
09 **TYPICAL SLAB ON GRADE SAWED JOINT**



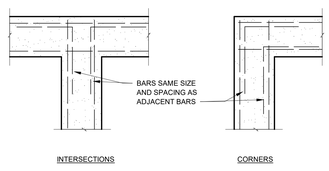
10 **TYPICAL SLAB DEPRESSION**



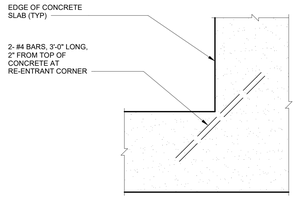
11 **TYPICAL THICKENED SLAB**



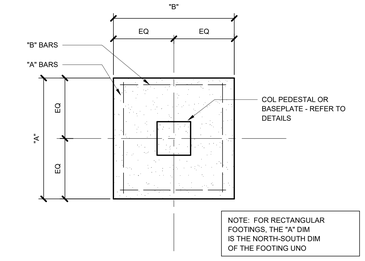
12 **THICKENED SLAB AT STAIR CONNECTION**



13 **TYPICAL CORNER BARS**

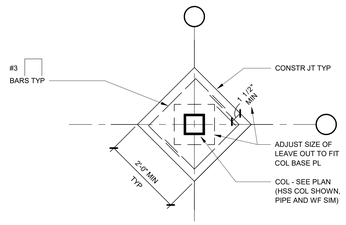


14 **TYPICAL RE-ENTRANT CORNER REINFORCING**

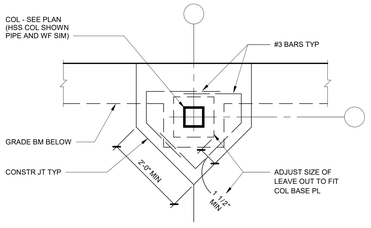


SPREAD FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCING		NOTES
	"A"	"B"	"T"	A BARS	B BARS	
P4	4'-0"	4'-0"	1'-6"	5- #6	5- #6	STD ACI HOOKS EA END
P5	5'-0"	5'-0"	2'-0"	6- #6	6- #6	REINF T& B
P6	6'-0"	6'-0"	1'-6"	7- #6	7- #6	REINF T& B
P7	7'-0"	7'-0"	1'-6"	7- #6	7- #6	REINF T& B
P8	8'-0"	8'-0"	1'-6"	8- #6	8- #6	REINF T& B
P10	10'-0"	10'-0"	1'-6"	9- #6	9- #6	REINF T& B
P12	12'-0"	12'-0"	1'-6"	11- #6	11- #6	REINF T& B

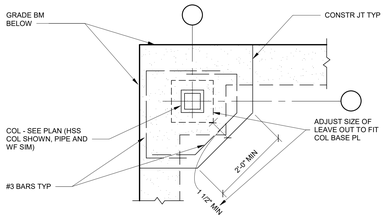
04 **TYPICAL SPREAD FOOTING PLAN AND SCHEDULE**



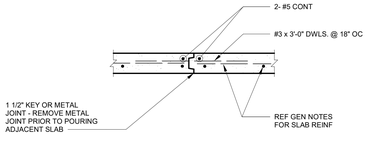
05 **TYPICAL CONSTRUCTION JOINT AT INTERIOR COLUMN**



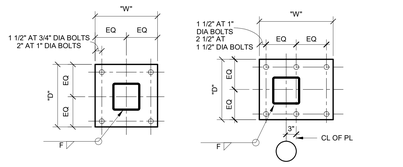
06 **TYPICAL CONSTRUCTION JOINT AT EXTERIOR COLUMN**



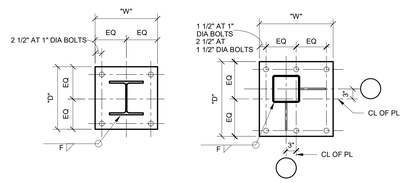
07 **TYPICAL CONSTRUCTION JOINT AT EXTERIOR COLUMN**



08 **TYPICAL SLAB ON GRADE CONSTRUCTION JOINT**



TYPE 'A' **TYPE 'B'**

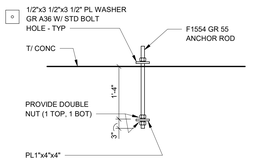


TYPE 'C' **TYPE 'D'**

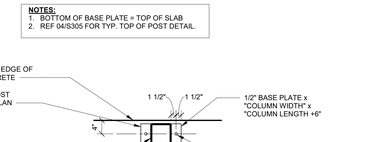
PLATE SCHEDULE								
MARK	COLUMN SIZE	D	W	T	ANCHORS	TYPE	WELD SIZE 'F'	COMMENT
BP1	HSS6X6	12"	12"	3/4"	4-3/4" DIA	A	5/16"	
BP2	HSS8X8	14"	14"	3/4"	4-3/4" DIA	A	5/16"	
BP3	HSS8X8	16"	16"	1"	4-1" DIA	A	5/16"	SEE NOTE 2
BP4	W10	20"	20"	1 1/4"	4-1" DIA	C	5/16"	SEE NOTE 2
BP5	HSS6X6	20"	16"	1"	4-1" DIA	B	5/16"	SEE NOTE 2
BP6	HSS6X6	16"	16"	1"	4-1" DIA	D	5/16"	SEE NOTE 2
BP7	HSS8X8	26"	18"	1"	4-1 1/4" DIA	B	5/16"	SEE NOTE 2
BP8	HSS8X8	24"	24"	1"	6-1 1/4" DIA	D	5/16"	SEE NOTE 2

NOTES:
1. PROVIDE AISC STANDARD OVERSIZED BOLT HOLES FOR ALL BASE PLATES.
2. BASE PLATE SHALL BE A572 GR 50 STEEL.

01



02 **TYPICAL ANCHOR RODS**



03

NOTE: DETAILS SHOWN ON THIS SHEET ARE APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BBY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.

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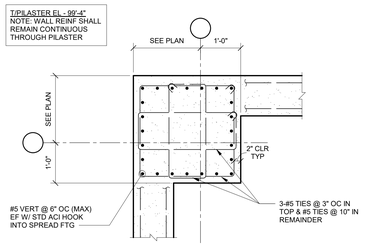
Discipline: Owner Consultant
QSC SERVICES, LLC
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

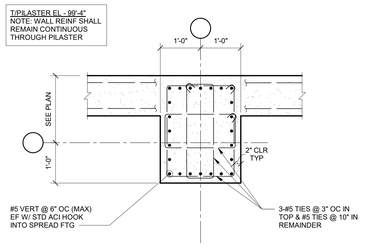
Revisions

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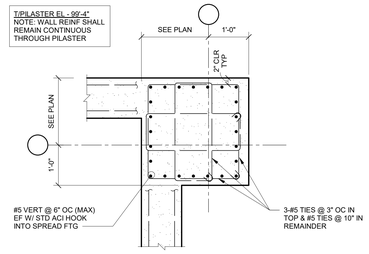
TYPICAL DETAILS - FOUNDATION DETAILS **S300**



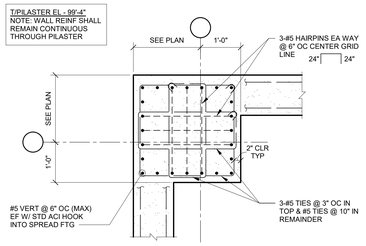
PILASTER PR-1



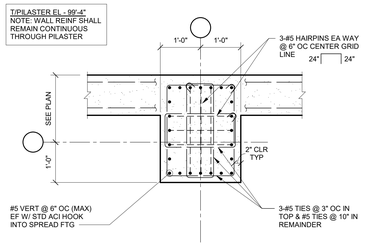
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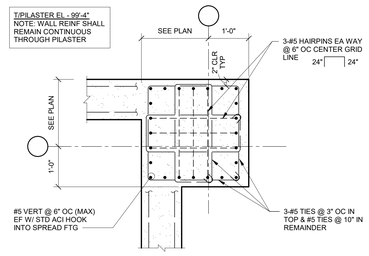
PILASTER PR-3



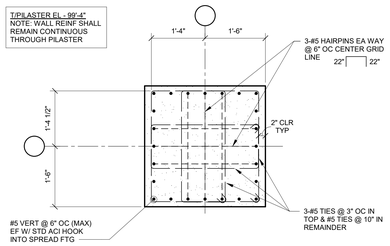
PILASTER PR-4



PILASTER PR-5



PILASTER PR-6



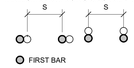
PILASTER PR-7

DEVELOPMENT LENGTH SCHEDULE (INCHES)

GRADE	BAR SIZE	MIN BAR SPACING (INCHES) [MAX OF db+1" OR 2db]	TENSION												COMPRESSION					
			NOTED AS Ld ON DRAWINGS						NOTED AS Ldh ON DRAWINGS						NOTED AS Ldc ON DRAWINGS					
			f'c (PSI)						f'c (PSI)						f'c (PSI)					
			3000	4000	5000	6000	7000	8500	3000	4000	5000	6000	7000	8500	3000	4000	5000	6000	7000	8500
60	#3	1.375	17	15	13	12	12	12	9	8	7	6	6	6	9	8	8	8	8	8
	#4	1.5000	22	19	17	16	15	14	11	10	9	8	8	7	11	10	9	9	9	9
	#5	1.625	28	24	22	20	18	17	14	12	11	10	9	9	14	12	12	12	12	12
	#6	1.750	33	29	26	24	22	20	17	15	13	12	11	10	17	15	14	14	14	14
	#7	1.875	48	42	38	34	32	29	20	17	15	14	13	12	20	17	16	16	16	16
	#8	2.000	55	48	43	39	36	33	22	19	17	16	15	14	22	19	18	18	18	18
	#9	2.250	62	54	48	44	41	37	25	22	20	18	17	15	25	22	21	21	21	21
80	#10	2.500	93	81	72	66	61	56	38	33	29	27	25	23	38	33	31	31	31	31
	#11	2.750	103	90	80	73	68	62	42	36	32	30	27	25	42	36	34	34	34	34

LAP SPLICE NOTES:

1. TABULATED VALUES ARE PER ACI 318-19 REQUIREMENTS FOR NORMAN WEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE.
2. SEE TYPICAL DETAILS FOR CLEAR COVER.
3. MINIMUM BAR SPACING DIAGRAM - "S"



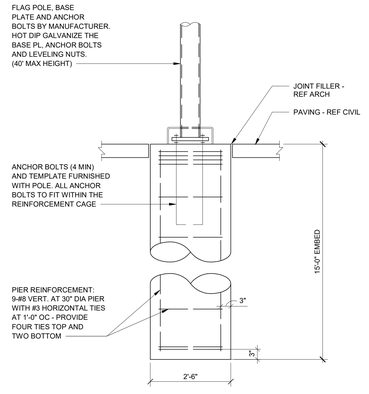
4. WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE, MINIMUM SPACING AND/OR fc, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED REINFORCEMENT. FOR EPOXY COATED REINFORCEMENT MULTIPLY VALUES BY 1.3 FOR "TOP BARS" AND 1.5 FOR ALL OTHER REINFORCEMENT
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, THE LAP LENGTH SHALL BE THE TENSION LAP SPLICE LENGTH (LTS) OF THE SMALLER BAR.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE LARGER OF THE COMPRESSION DEVELOPMENT LENGTH (Ldc) OF THE LARGER BAR OR THE COMPRESSION LAP SPLICE LENGTH OF THE SMALLER BAR.
8. "TOP BARS" ARE DEFINED PER ACI HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. "OTHER BARS ARE ALL BARS FOR WHICH THIS DOES NOT APPLY".
9. FOUNDATION WALL LAP SPLICES ARE BASED ON A MINIMUM 1 1/2" CLEAR COVER. IF CLEAR COVER IS REDUCED ON INTERIOR FACE, LAP SPLICES MUST BE REVISED.

SLAB/SLAB-ON-GRADE REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

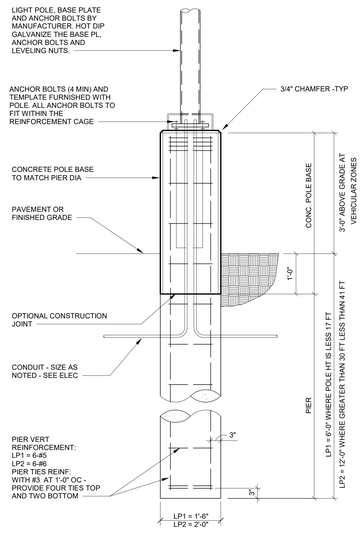
GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)					
			f'c = 3 KSI	f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8.5 KSI
60	#3	1.750	22	19	17	16	14	13
	#4	1.875	29	25	23	21	19	17
	#5	2.000	36	31	28	26	24	22
	#6	2.250	43	37	34	31	28	26
	#7	2.625	94	81	73	67	62	56
	#8	3.000	107	93	83	76	70	64

FOOTING/MAT REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)											
			f'c = 3 KSI		f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8.5 KSI	
			TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
60	#4	1.875	38	29	33	25	29	23	27	21	25	19	22	17
	#5	2.000	47	36	41	31	36	28	33	26	31	24	28	22
	#6	2.250	56	43	49	37	44	34	40	31	37	28	33	26
	#7	2.625	81	63	71	54	63	49	58	45	54	41	49	38
	#8	3.000	93	72	81	62	72	56	66	51	61	47	55	43
	#9	3.375	105	81	91	70	81	63	74	57	69	53	63	48
80	#10	3.750	157	121	136	105	122	94	111	86	103	79	94	72
	#11	4.125	175	134	151	116	135	104	124	95	114	88	104	80



02 FLAG POLE BASE DETAIL



01 LIGHT POLE BASE DETAIL

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Discipline:
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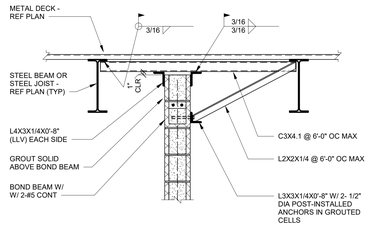
Discipline:
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Discipline: Owner Consultant
QSC SERVICES, LLC
PM8 #69
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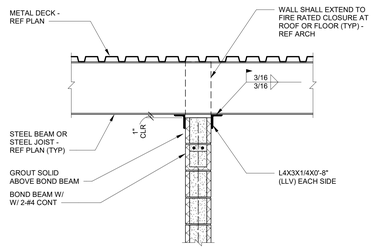
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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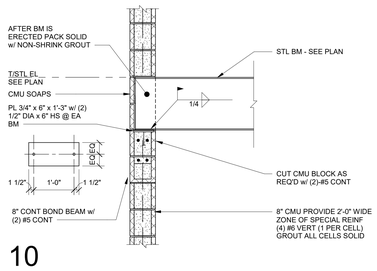
FULL-HEIGHT WALL BETWEEN BEAM / JOIST



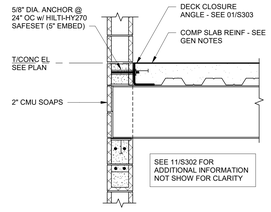
FULL-HEIGHT WALL PERPENDICULAR TO BEAM / JOIST

TYP CMU WALLTOP BRACING AT STEEL FRAMING

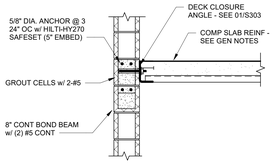
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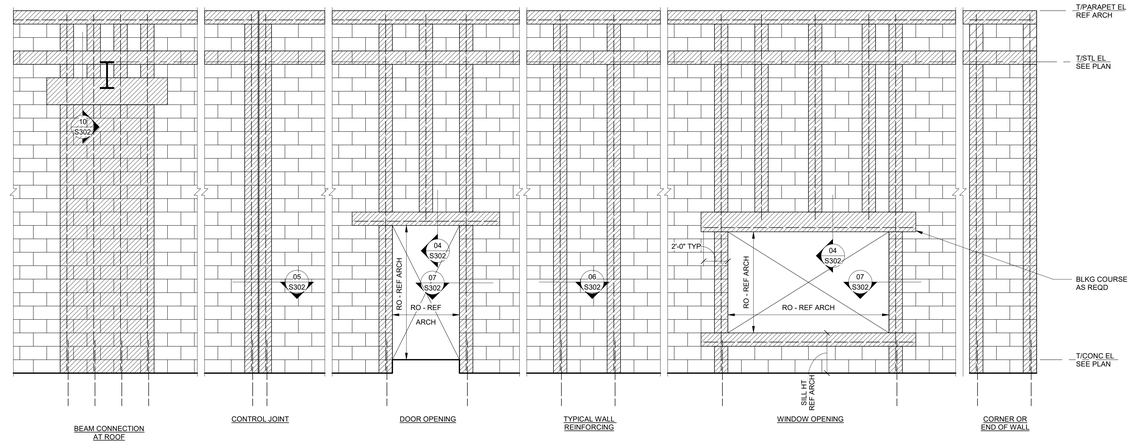


PERPENDICULAR TO BEAMS



PARALLEL TO BEAMS

11



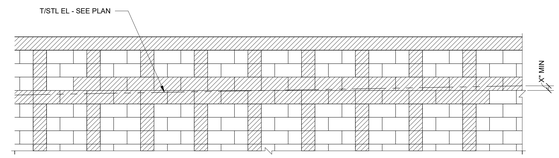
TYPICAL CMU WALL ELEVATION

NOTE:
1. - DENOTES CELLS TO BE GROUTED SOLID

01

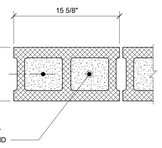


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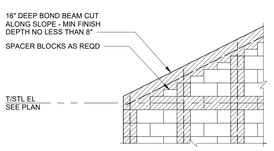
BOND BEAM AT SLOPED ROOF

02



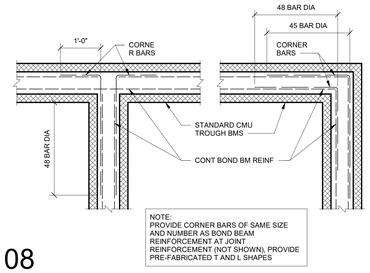
07

DETAIL AT DOOR JAMB

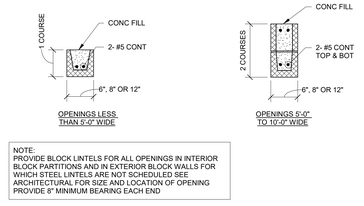


03

BOND BEAM AT RIDGE

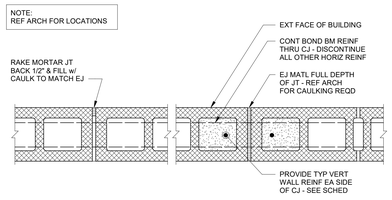


08



TYPICAL CMU BLOCK LINTELS

04



BLOCK REVEAL **BLOCK CONTROL JOINT**

05

NOTE: DETAILS SHOWN ON THIS SHEET ARE APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BBY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.

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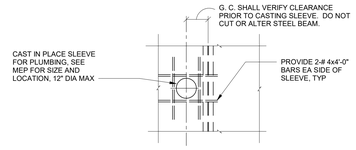
Discipline: Owner Consultant
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OWNER ID:
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100 E. BLOUNT ST. PENSACOLA, FL 32501

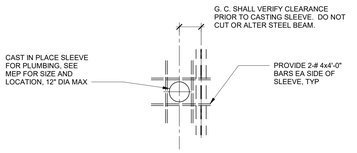
Revisions

PROJECT NO. 2613
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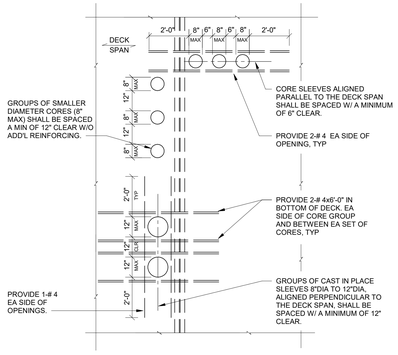
TYPICAL DETAILS - CMU WALLS **S302**



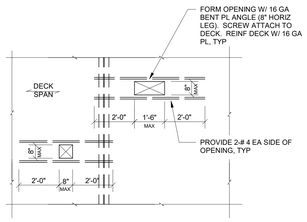
13 **SINGLE ISOLATED ROUND CORE FOR PLUMBING**



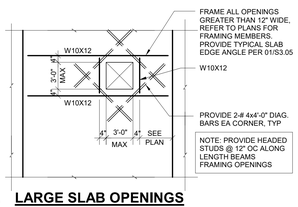
14 **SINGLE ISOLATED ROUND SLEEVE FOR PLUMBING**



15 **SLEEVE GROUPINGS FOR PLUMBING**



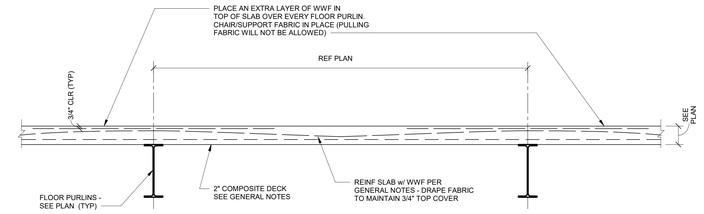
16 **SMALL RECTANGULAR SLAB OPENINGS**



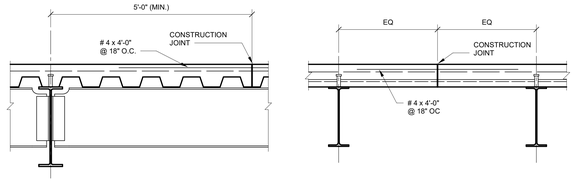
17 **LARGE SLAB OPENINGS**

DECK OPENINGS AND HOLES

1. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS. INSTALL DECK, FORM OR CUT HOLES AND OPENINGS, AND PROVIDE PROTECTIVE COVERING AND/OR RAILS AS REQUIRED, IN STRICT COMPLIANCE WITH OSHA.
2. DECK HOLES REFERS TO GAPS IN THE DECK MORE THAN 2" IN THE LEAST DIMENSION AND LESS THAN 12" IN THE GREATEST DIMENSION. DECK OPENINGS REFERS TO GAPS 12" OR MORE IN THE LEAST DIMENSION.
3. PROVIDE SPECIAL REINFORCING AROUND DECK HOLES AND OPENINGS AS SHOWN IN DETAILS 13 THRU 17/S303, REGARDLESS OF METHOD OF HOLE INSTALLATION (CORING VS. FORMING).
4. ROUND DECK HOLES, LESS THAN 12" IN DIAMETER, MAY BE CORE DRILLED AFTER PLACEMENT OF CONCRETE. CONTRACTOR SHALL COORDINATE PLACEMENT OF HOLE TO PREVENT CUTTING OF STRUCTURAL FRAMING.
5. ROUND DECK HOLES OF ANY SIZE MAY BE FORMED PRIOR TO POURING CONCRETE. ALL RECTANGULAR DECK HOLES SHALL BE FORMED PRIOR TO POURING CONCRETE. PROVIDE AND INSTALL FORM AND CELL CLOSURES ABOVE THE DECK ALLOWING DECK TO RUN CONTINUOUS THROUGH THE HOLE. NEATLY CUT THE METAL DECK FROM THE HOLE IMMEDIATELY PRIOR TO INSTALLATION OF EQUIPMENT. DO NOT DAMAGE METAL DECK BEYOND THE EDGE OF HOLE.
6. SMALL RECTANGULAR DECK OPENINGS SHALL BE FORMED PRIOR TO POURING CONCRETE. SIMILAR TO RECTANGULAR DECK HOLES NOTED ABOVE.
7. LARGE FLOOR OPENINGS SHALL BE FRAMED WITH SUPPORTING STEEL AND EDGE ANGLES AS INDICATED IN DETAIL 17/S303. STAIRS, ELEVATORS AND LARGE MECHANICAL CHASES FALL IN THIS CATEGORY. THE CONTRACTOR SHALL PROVIDE PROTECTIVE COVER AND/OR RAILINGS AS REQUIRED BY OSHA.



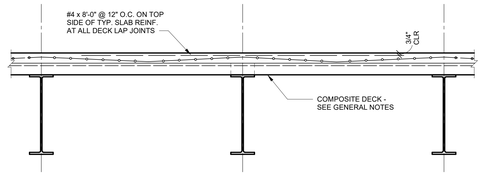
04 **TYP SLAB REINFORCEMENT OVER PURLINS**



CONSTRUCTION JOINT PARALLEL TO DECK SPAN

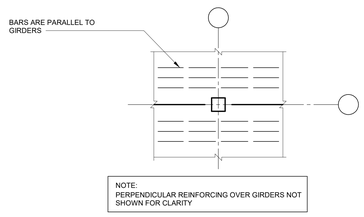
CONSTRUCTION JOINT PERPENDICULAR TO DECK SPAN

09

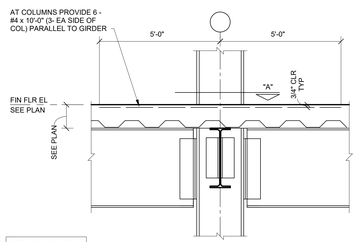


ADDITIONAL REINFORCING AT DECK LAP JOINTS

10



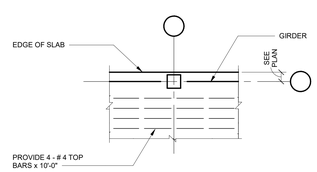
"A" PLAN



SECTION

TYPICAL SLAB REINFORCEMENT AT INTERIOR COLUMNS

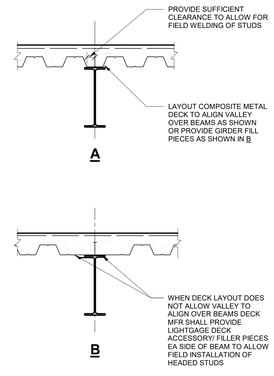
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PLAN

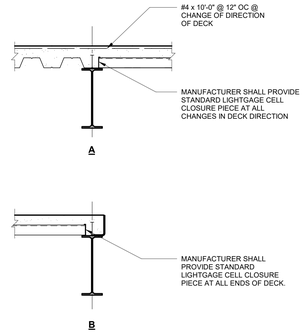
TYPICAL SLAB REINFORCEMENT AT COLUMNS ALONG SLAB EDGE

12



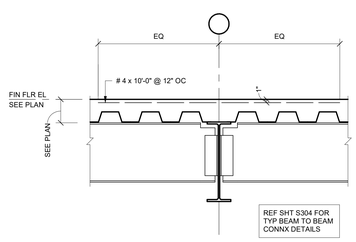
TYPICAL DECK LAYOUT

05



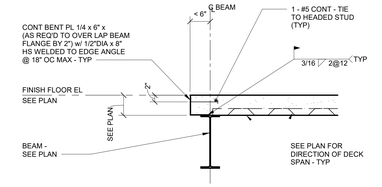
TYPICAL DECK CLOSURE

06

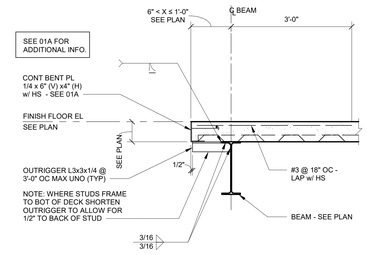


TYPICAL SLAB REINFORCEMENT OVER ALL GIRDERS

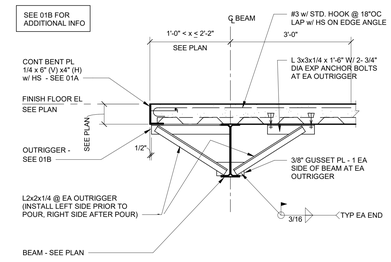
07



'A' TYPICAL SLAB EDGE

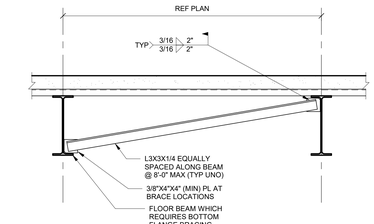


'B' TYPICAL SLAB EDGE



'C' TYPICAL SLAB EDGE

01

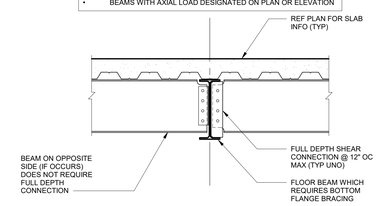


BEAM PERPENDICULAR TO DECK SPAN

NOTES:

FLOOR BEAMS WHICH REQUIRE BOTTOM FLANGE BRACING INCLUDE:

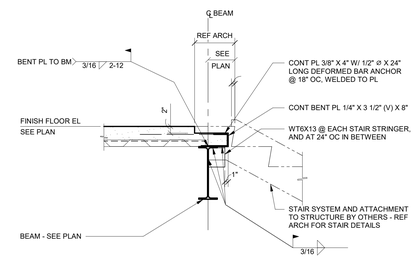
- BEAMS IN BRACE FRAMES
- BEAMS WITH MOMENT CONNECTIONS AT ONE OR BOTH ENDS
- BEAMS WITH AXIAL LOAD DESIGNATED ON PLAN OR ELEVATION



BEAM PARALLEL TO DECK SPAN

TYPICAL FLOOR BEAM BOTTOM FLANGE BRACING

02



TYP SLAB EDGE @ STAIR

03

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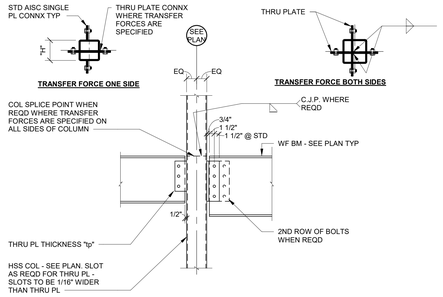
Discipline:
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Revisions

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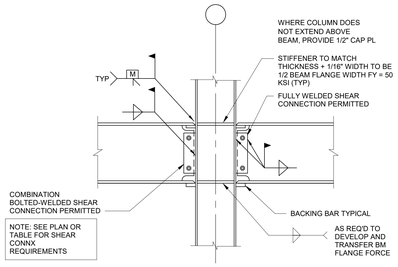


TYPICAL LATERAL SINGLE PL CONNX TO HSS COL

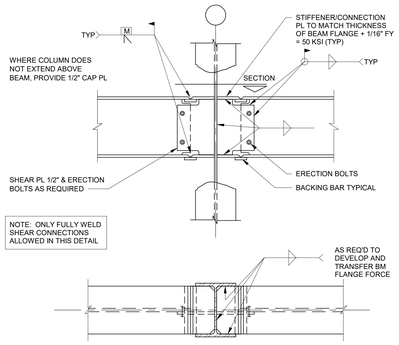
NOTES:

1. REF PLAN FOR SPECIFIED TRANSFER FORCES (TF) AND DIRECTION
2. USE SLIP CRITICAL BOLTS WHERE SHORT SLOTTED HOLES ARE PROVIDED
3. FOR INFO NOT NOTED - SEE DETAIL 06/S-212
4. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY

07



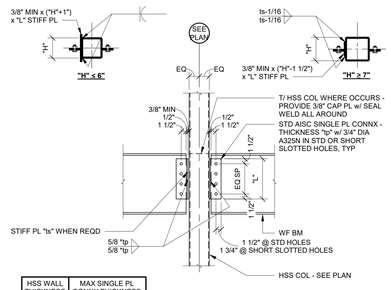
TYPICAL BEAM TO COLUMN MOMENT CONNECTION



SECTION

TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION

05

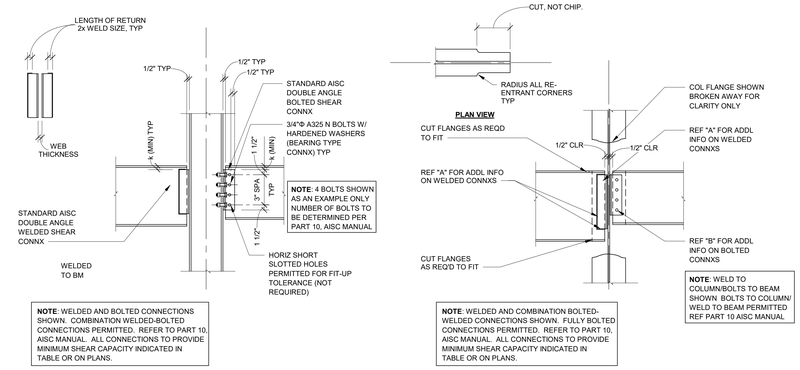


HSS WALL THICKNESS	MAX SINGLE PL CONNX THICKNESS
1/4"	3/8"
5/16"	7/16"
3/8"	1/2"
1/2"	5/8"
5/8"	5/8"

TYPICAL GRAVITY SINGLE PL CONNX TO HSS COL

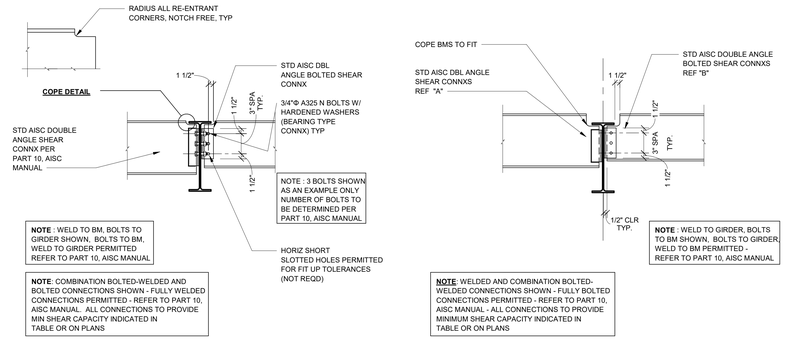
1. PLATE MATERIAL TO BE A36
2. WHERE CONNECTION PLATE THICKNESS EXCEEDS REQUIREMENT OF TABLE ABOVE, PROVIDE STIFFENER PLATE. STIFF PL THICKNESS "ts" SHALL BE MIN 3/8" OR THICKNESS OF SINGLE PLATE.
3. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY

06



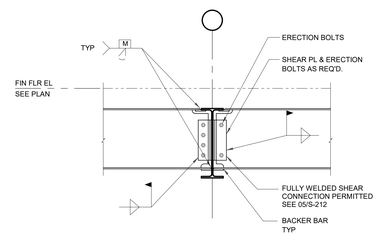
TYPICAL BEAM TO COLUMN FRAMING CONNECTIONS

01



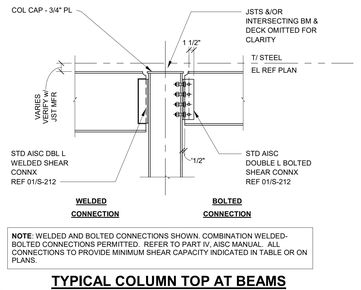
TYPICAL BEAM TO BEAM FRAMING CONNECTIONS

02



TYPICAL BEAM TO BEAM MOMENT CONNECTION

04



NOTE: WELDED AND BOLTED CONNECTIONS SHOWN. COMBINATION WELDED-BOLTED CONNECTIONS PERMITTED. REFER TO PART IV, AISC MANUAL. ALL CONNECTIONS TO PROVIDE MINIMUM SHEAR CAPACITY INDICATED IN TABLE OR ON PLANS.

TYPICAL COLUMN TOP AT BEAMS

03

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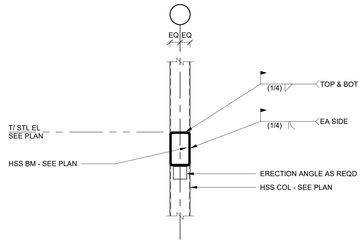
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TYPICAL DETAILS - STRUCTURAL STEEL **S304**



TYPICAL HSS BM TO HSS COL CONNECTION

02

LOOSE LINTEL SCHEDULE

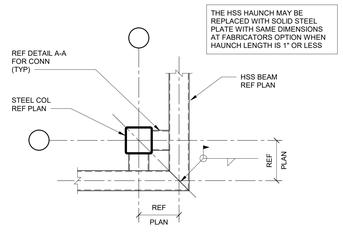
NOTE: PROVIDE 8" MIN BEARING EACH END FOR STEEL LOOSE LINTELS. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK. SEE ARCH DRAWINGS FOR LOCATIONS.

STANDARD OPENING CONDITIONS		
MASONRY OPNG	SIZE	DETAIL
LESS THAN 4'-0"	L 3 1/2 X 3 1/2 X 1/4	⌞
4'-0" TO 8'-0"	L 4 x 3 1/2 x 1/4	⌞
5'-0" TO 6'-0"	L 5 x 3 1/2 x 5/16	⌞
6'-0" TO 7'-0"	L 6 x 3 1/2 x 5/16	⌞
7'-0" TO 8'-0"	L 6 x 4 x 3/8	⌞
8'-0" TO 10'-0"	L 5x3 1/2x3/8 W/ PL 3/8x8	⌞ ✳

✳ SEE DETAIL BELOW.



01

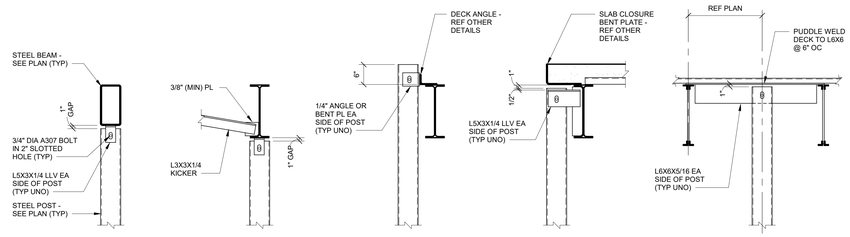


PLAN DETAIL AT CORNER

PLAN DETAIL A-A

HSS OFFSET BEAM TO COLUMN CONNECTION DETAIL WITH HSS HAUNCH

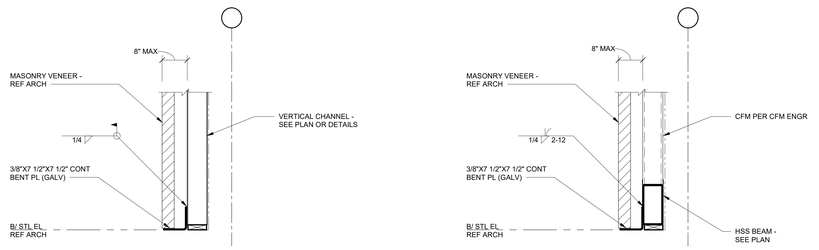
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POST BELOW HSS BEAM | **POST BELOW WF BEAM** | **POST BYPASSING ROOF BEAM** | **POST AT FLOOR BEAM** | **POST BELOW ROOF BETWEEN JOIST / BEAM**

TYPICAL TOP OF POST CONNECTION DETAILS

04



LINTEL WELDED TO CHANNELS

LINTEL WELDED TO TUBE

TYPICAL WELDED LINTEL DETAIL

05

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01 - ADMIN BUILDING
50 CLARINDA LN
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Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

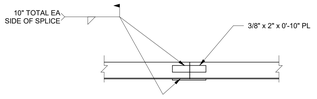
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
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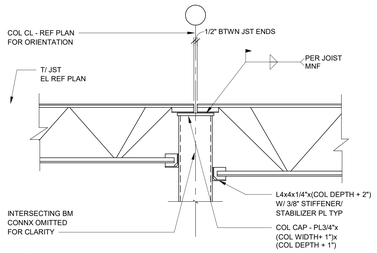
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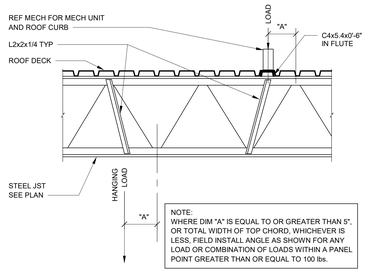
TYPICAL DETAILS - STRUCTURAL STEEL **S305**



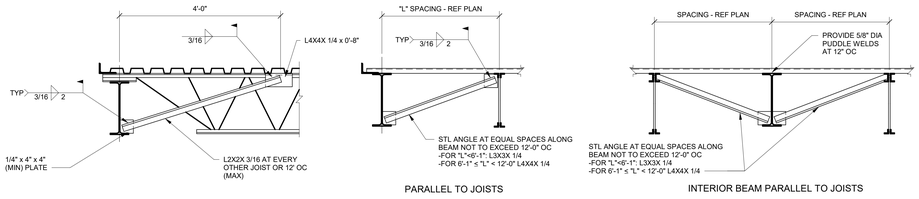
09 **TYPICAL SPLICE OF EDGE ANGLE DETAILS**



05 **TYPICAL COLUMN TOP AT JOISTS**



01 **TYPICAL JOIST LOAD STRUT DETAIL**



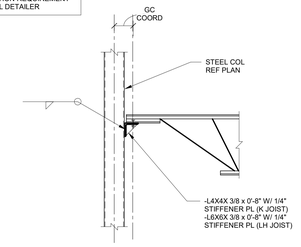
PERPENDICULAR TO JOISTS

PARALLEL TO JOISTS

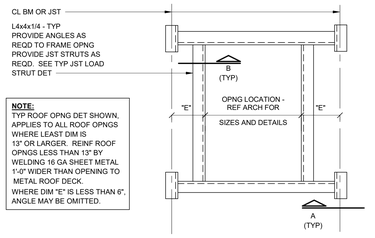
INTERIOR BEAM PARALLEL TO JOISTS

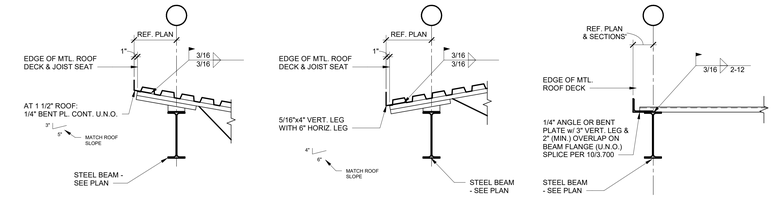
10 **TYPICAL ROOF BEAM BOTTOM FLANGE BRACING**

NOTE:
GC TO COORDINATE JOIST SEAT
& CONNECTION REQUIREMENT
WITH STEEL DETAILER

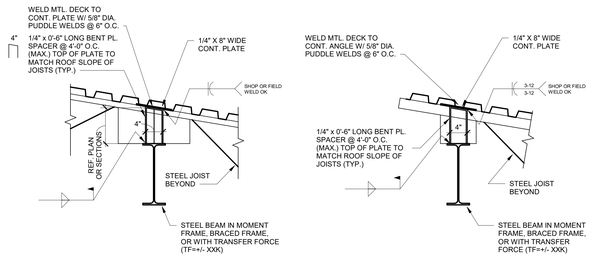


'A' HSS COLUMN BYPASS WITH JOIST BEARING





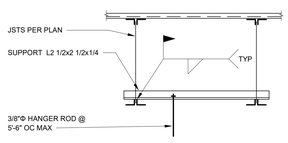
11 **TYPICAL ROOF DECK EDGE ANGLE**



INTERIOR BEAM

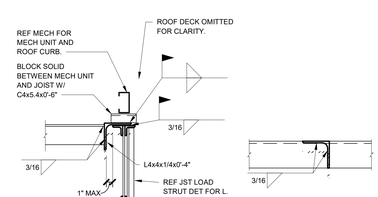
EXTERIOR BEAM

12 **TYPICAL ROOF BEAM DECK SHEAR TRANSFER SPACER**



1. AT WALL PANEL, PROVIDE L3x3x1/4x1'-0" W/ 2 - 3/4"Φ x6" EXP BOLTS TO CONNECT PANEL & SUPPORT L (SIM TO JST EXTENSION CONNX.)
2. WHEN CLG FUR DOWN IS PREP TO JSTS, ATTACH HANGER ROD TO JSTS BY USING ROD WASHERS. ATTACH TO EVERY JST.

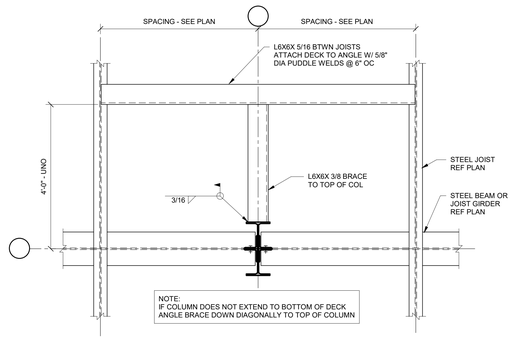
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SECTION "A"

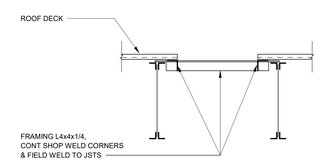
SECTION "B"

02 **TYPICAL ROOF OPENING DETAIL**

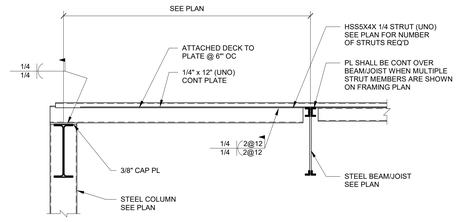


TYPICAL COLUMN BRACE BETWEEN JOIST DETAILS

07

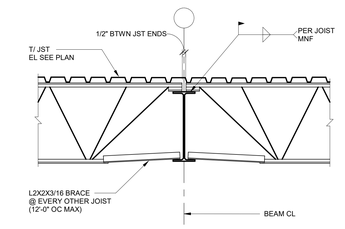


03 **TYPICAL ROOF OPENING DETAIL**



COLUMN BRACING STRUT DETAIL FOR STRUT PERPENDICULAR TO JOIST

08



04 **TYPICAL JOIST TO BEAM**

TYPICAL JOIST SEAT DETAIL AT COLUMN

06

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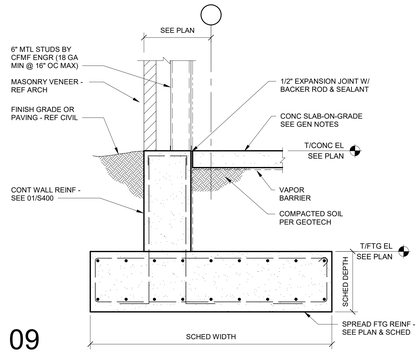
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

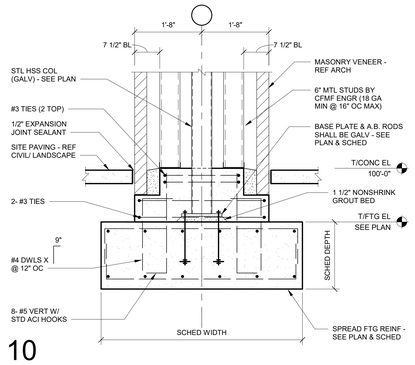
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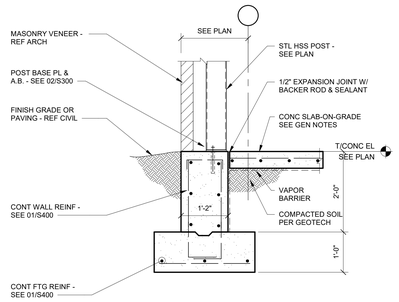
TYPICAL DETAILS - STRUCTURAL STEEL ROOF **S306**



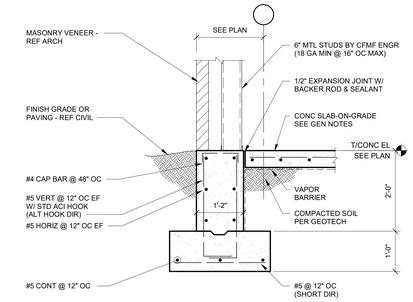
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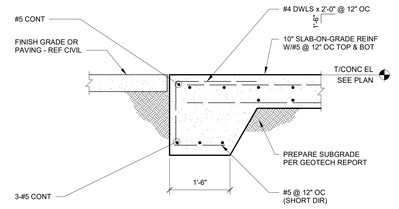
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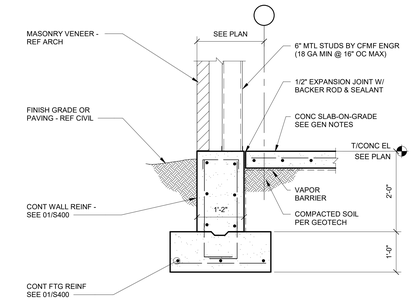
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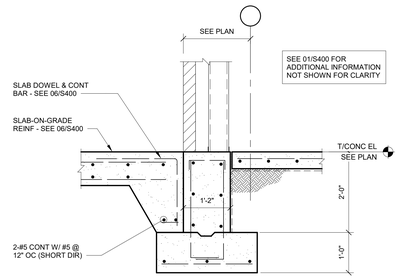
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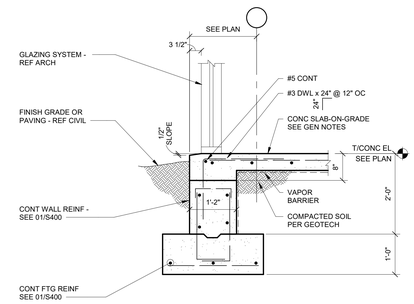
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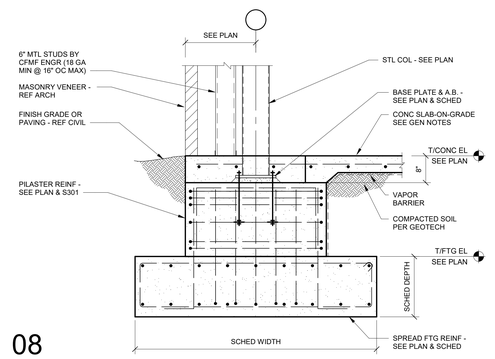
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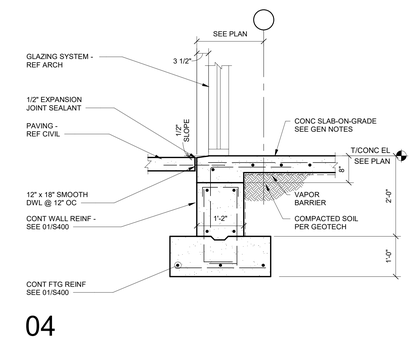
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03



08



04

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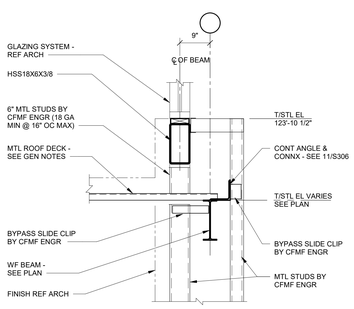
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
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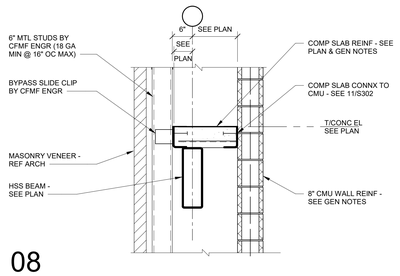
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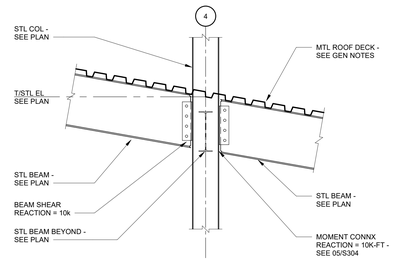
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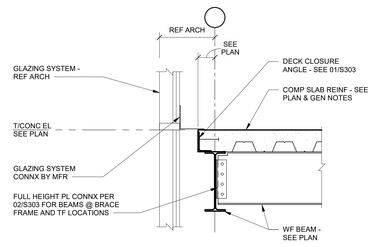
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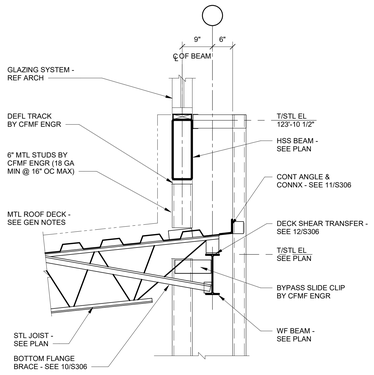
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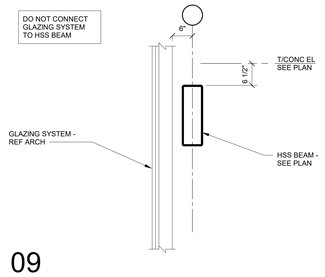
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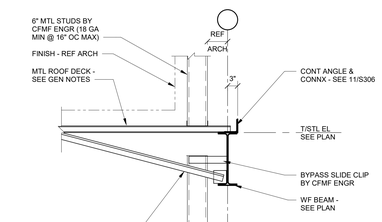
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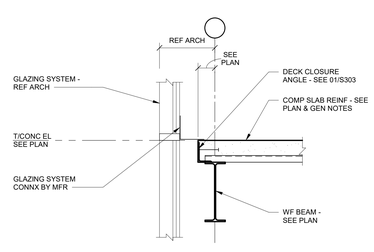
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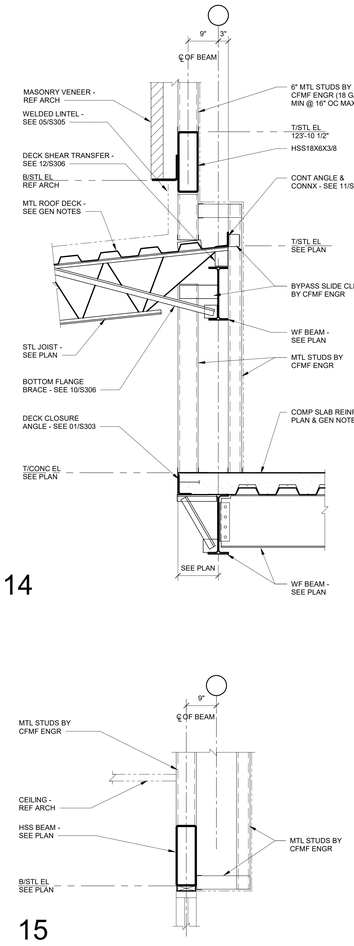
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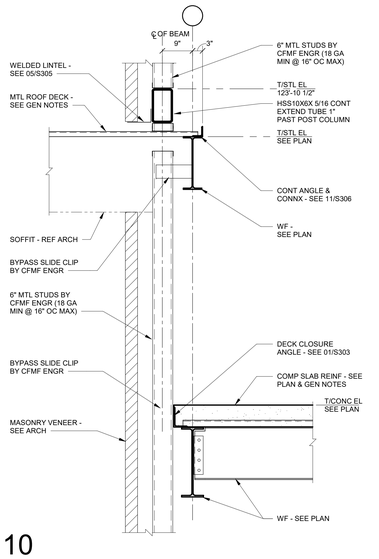
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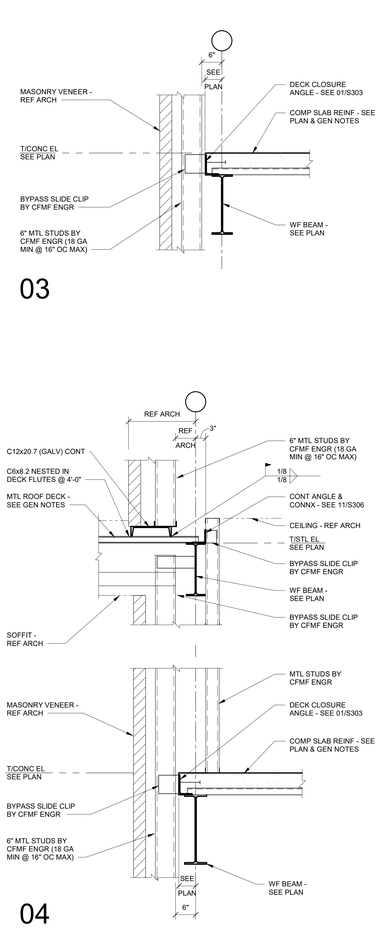
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14



10



04

15

11

07

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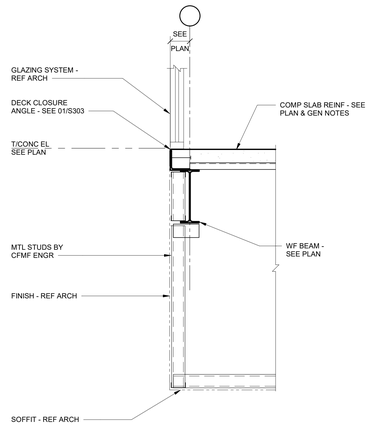
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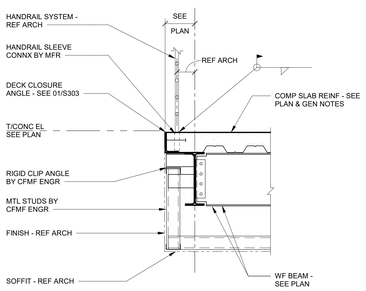
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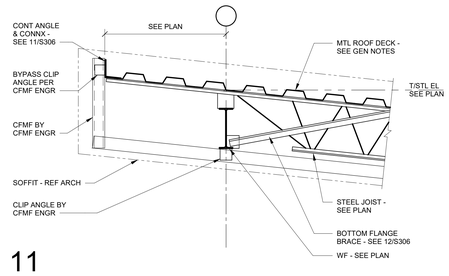
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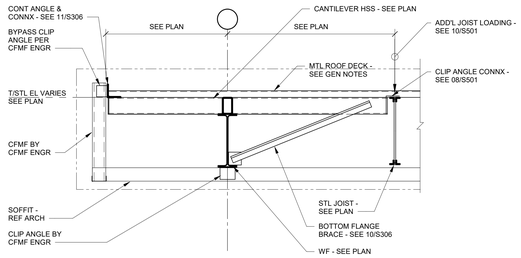
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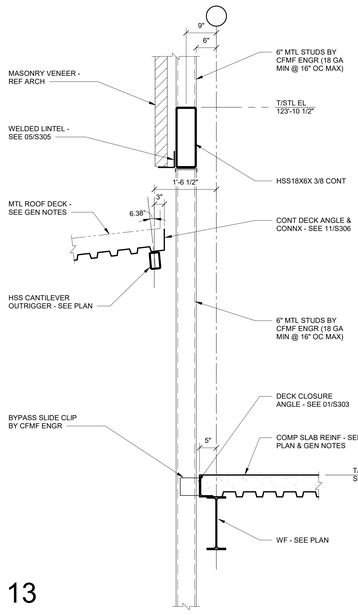
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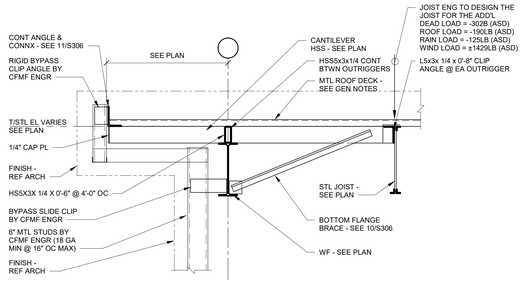
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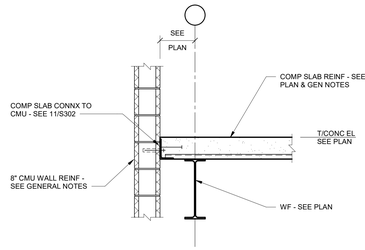
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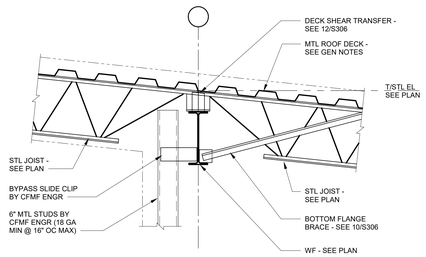
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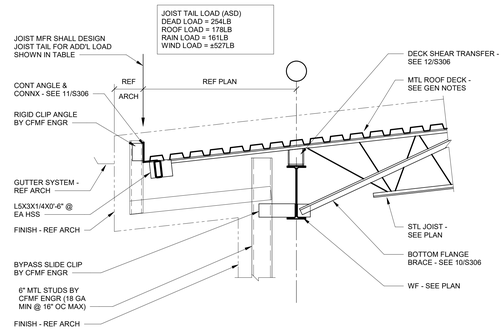
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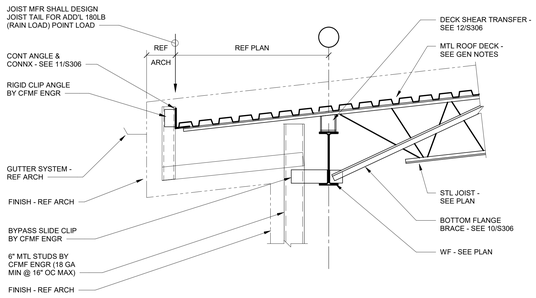
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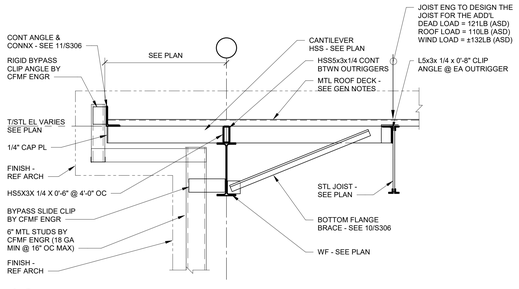
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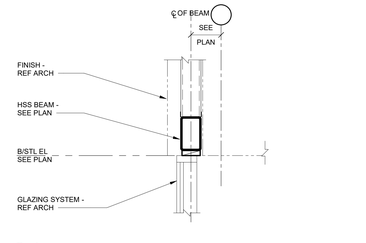
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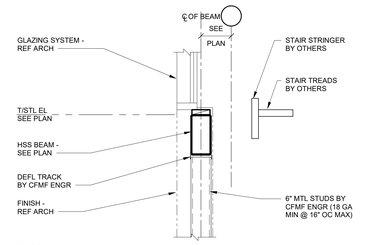
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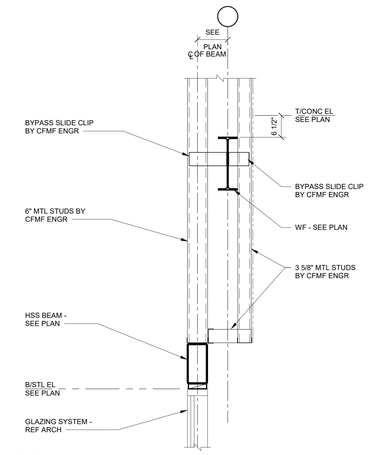
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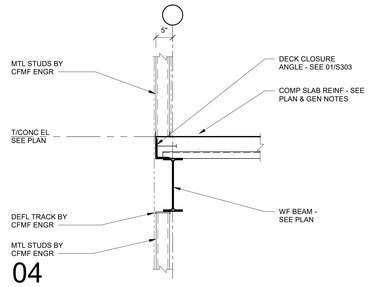
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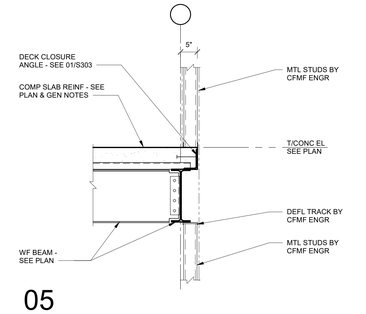
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03



04



05

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N CENTRAL EXPY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

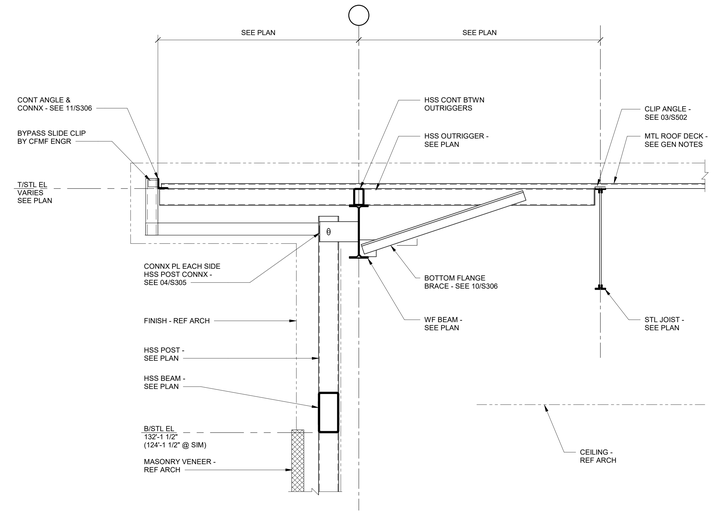
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

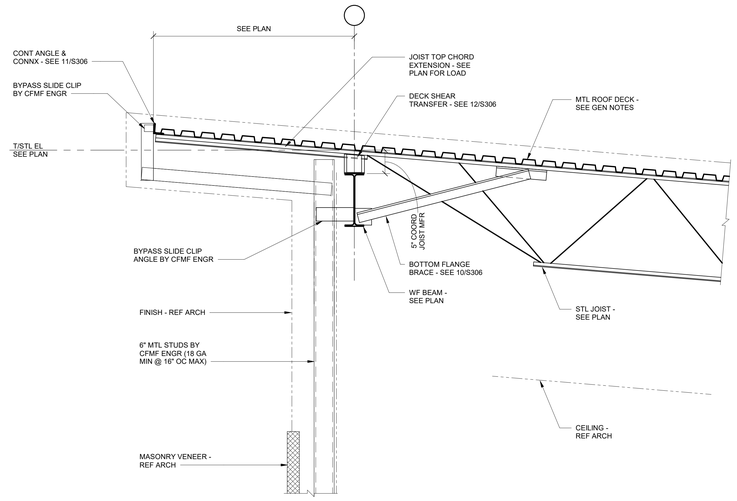
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

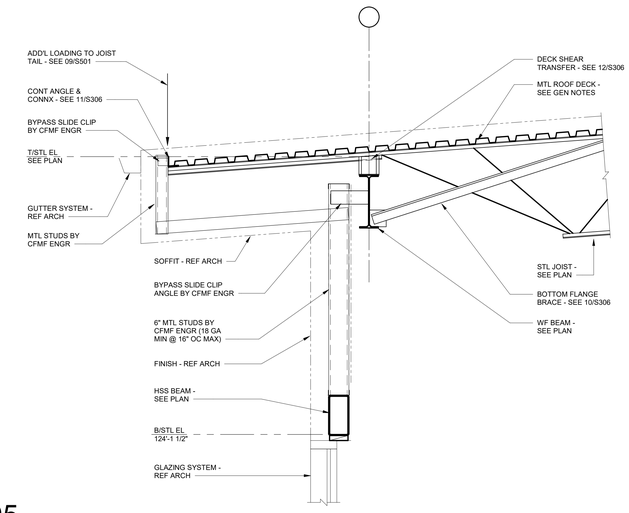
FRAMING DETAILS S501



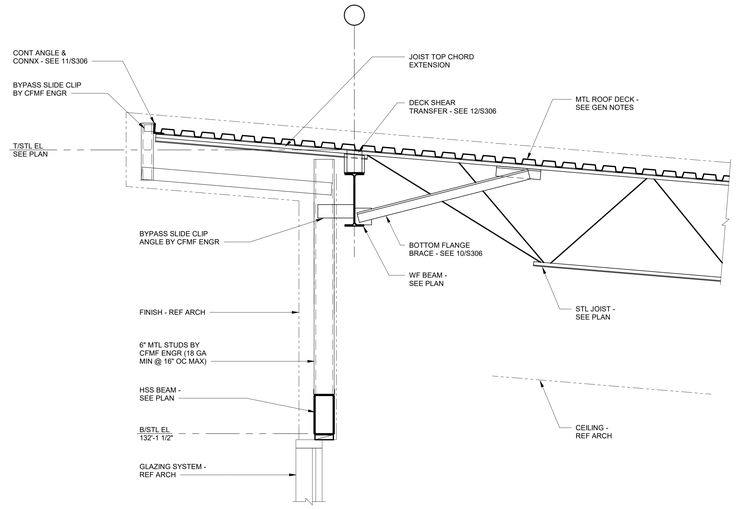
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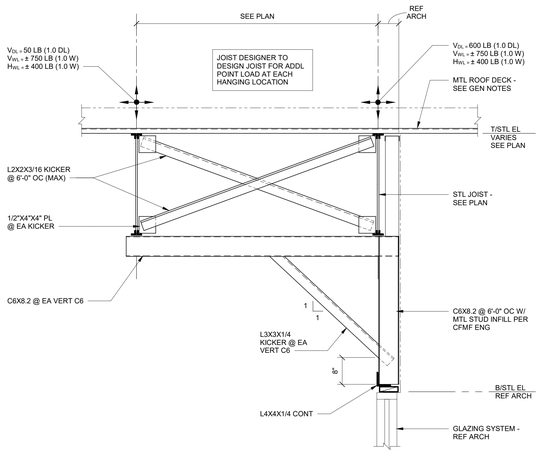
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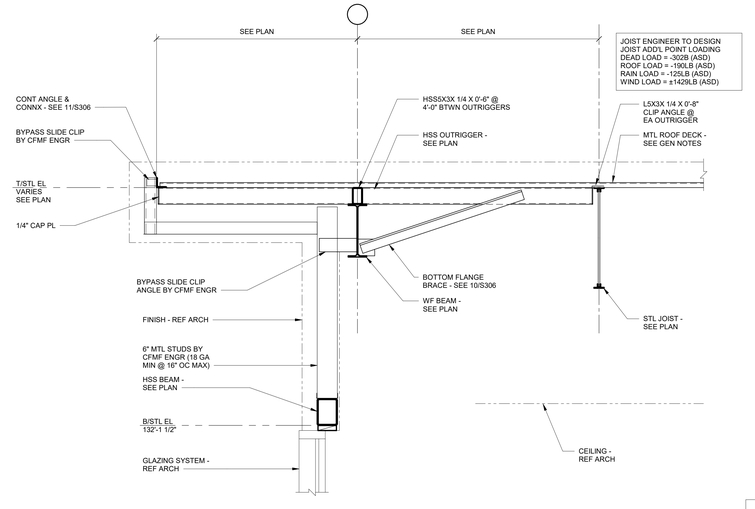
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02



06



03

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
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Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
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DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
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Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

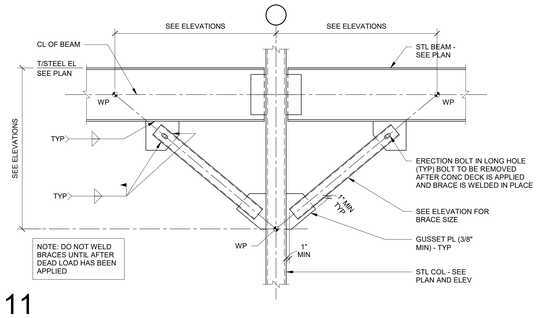
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

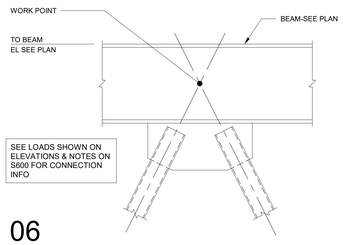
FRAMING DETAILS **S502**



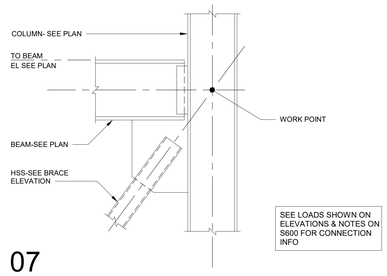
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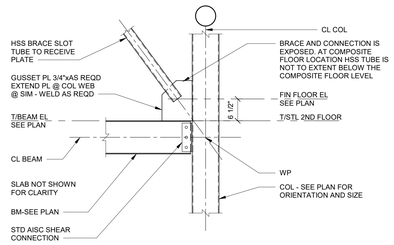
1. ALL BRACE FORCES SHOWN ARE LRFD FACTORED AXIAL LOADS. ALL LOADS ARE REVERSIBLE. IF NO FORCES ARE SHOWN, THE CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE FULL TENSION CAPACITY OF THE BRACE MEMBER.
2. BEAM WEB CONNECTIONS SHALL BE DESIGNED TO RESIST CONCURRENT FORCE BELOW:
   A. AXIAL FORCE INDICATED ON BRACE FRAME ELEVATIONS.
   B. SHEAR FORCES INDICATED ON PLAN.
3. WHERE JOIST BEAR ON BRACED FRAMES AND AXIALLY LOADED BEAMS, PROVIDE CONTINUOUS INFILL TUBES BETWEEN JOISTS PER DETAILS 12/S306.
4. BRACED FRAME BEAMS GREATER THAN 12'-0" IN LENGTH SHALL BE BRACED BACK TO THE TOP OF THE ADJACENT BEAM/JOIST REFER TO 10/S306 AT ROOF LEVEL.
5. CONTRACTOR SHALL DESIGN ALL BRACING CONNECTIONS BASED ON STANDARD AISC UNIFORM FORCE METHOD (NON-SPECIAL CASE). CONNECTION DETAIL SHOWN IS A REPRESENTATION OF A TYPICAL CONDITION ONLY. CONTRACTOR SHALL FULLY DESIGN ALL PARTS OF CONNECTIONS AND SUBMIT CALCULATIONS, SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA, TO ENGINEER FOR REVIEW.



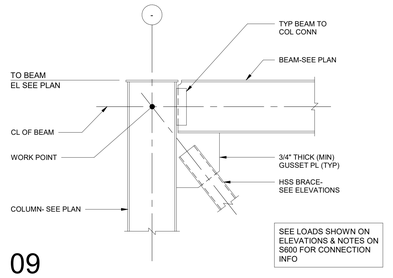
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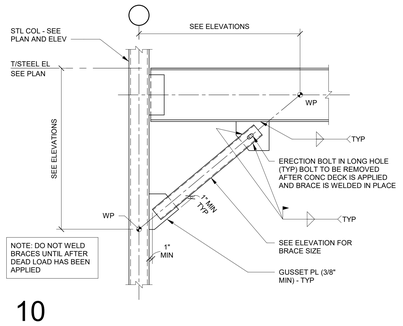
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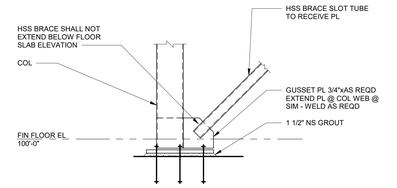
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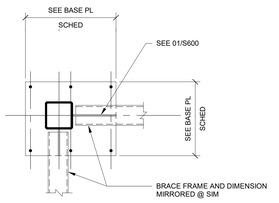
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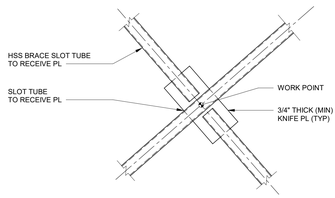
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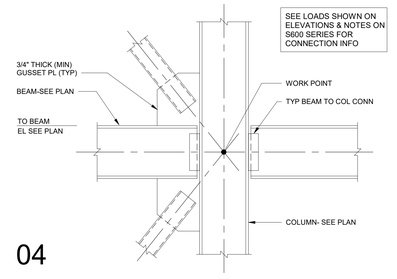


02 PLAN VIEW
3/4" = 1'-0"

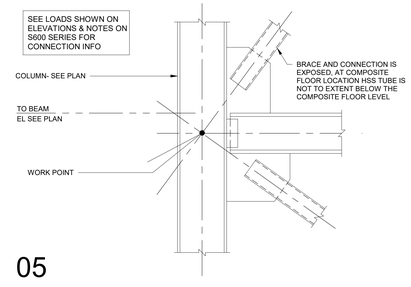


03

SEE LOADS SHOWN ON ELEVATIONS & NOTES ON S600 FOR CONNECTION INFO



04



05

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N CENTRAL EXPY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

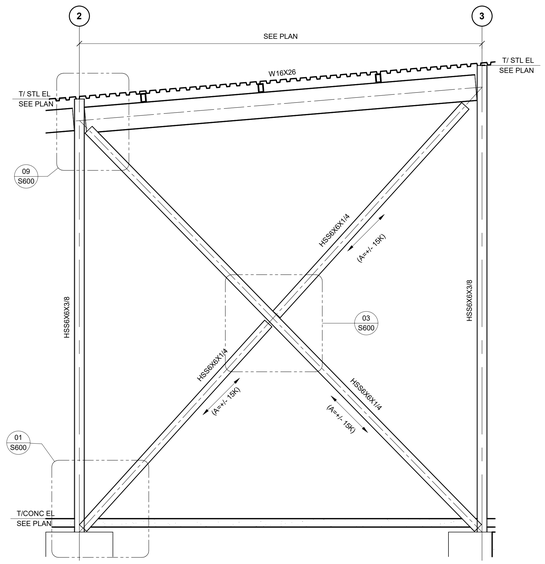
Discipline: Owner Consultant
OSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

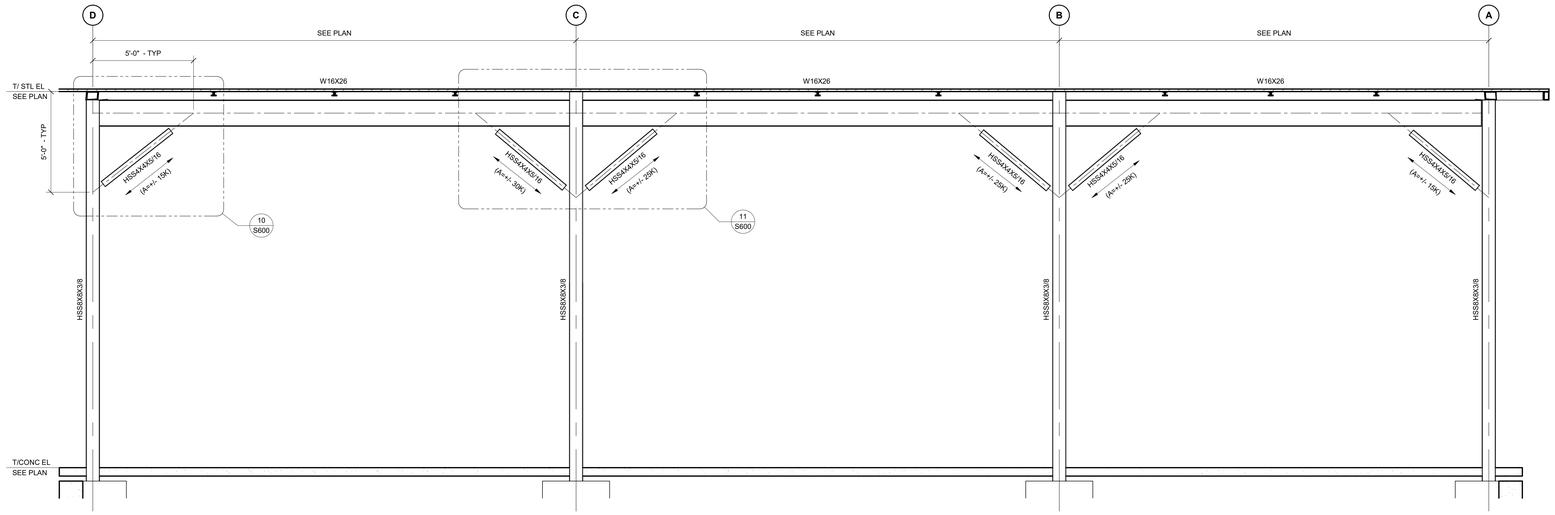
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PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

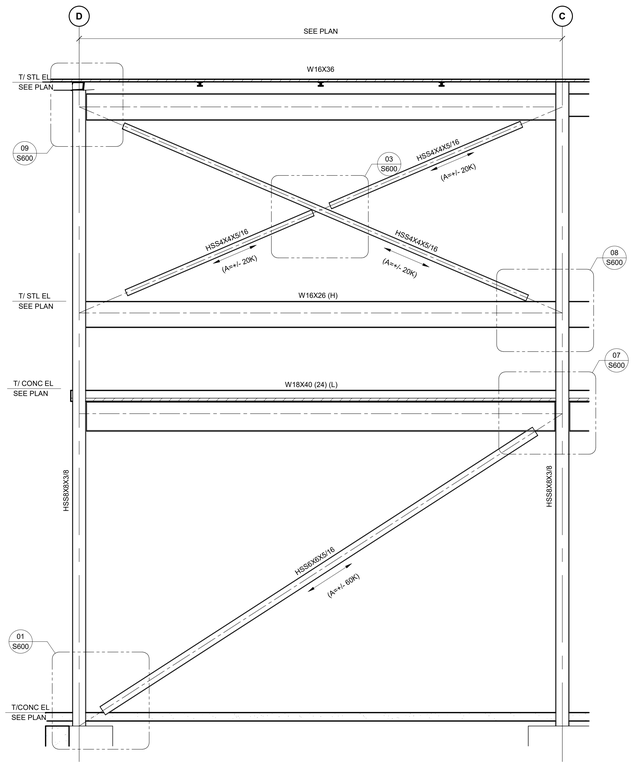
TYPICAL FRAME ELEVATION DETAILS **S600**



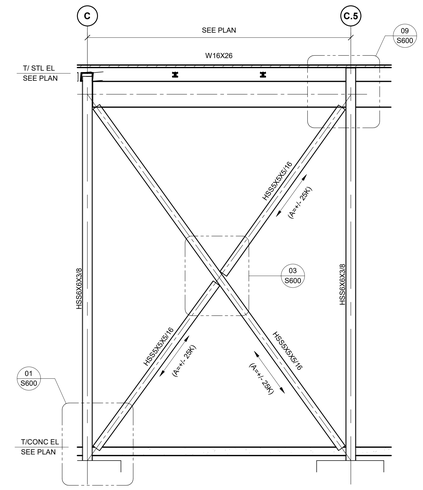
06 BF-4 (ALONG GRID LINE A)
3/8" = 1'-0"



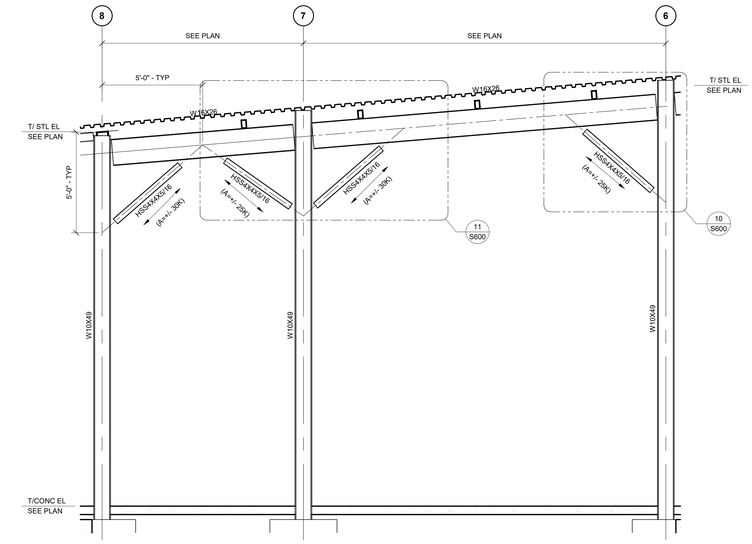
01 BF-1 (ALONG GRID LINE 1)
3/8" = 1'-0"



07 BF-3 (ALONG GRID LINE 2)
3/8" = 1'-0"



04 BF-5 (ALONG GRID LINE 8)
3/8" = 1'-0"



02 BF-2 (ALONG GRID LINE F)
3/8" = 1'-0"

05 BF-6 (ALONG GRID LINE C)
3/8" = 1'-0"

03 BF-2 (ALONG GRID LINE 3
3/8" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N CENTRAL EXPY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE #300
DALLAS, TX 75243
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Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

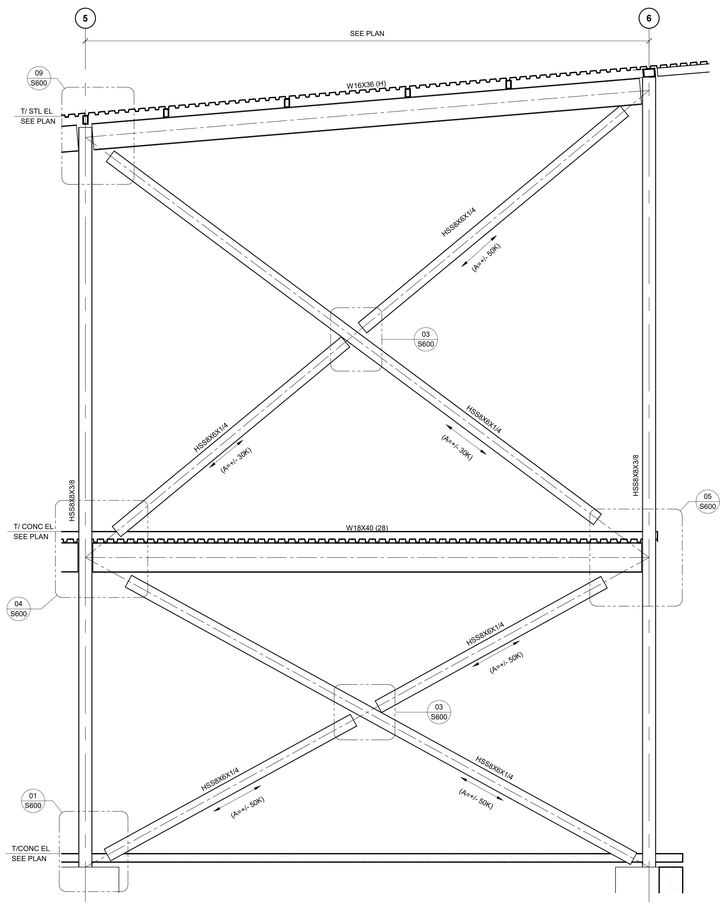
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

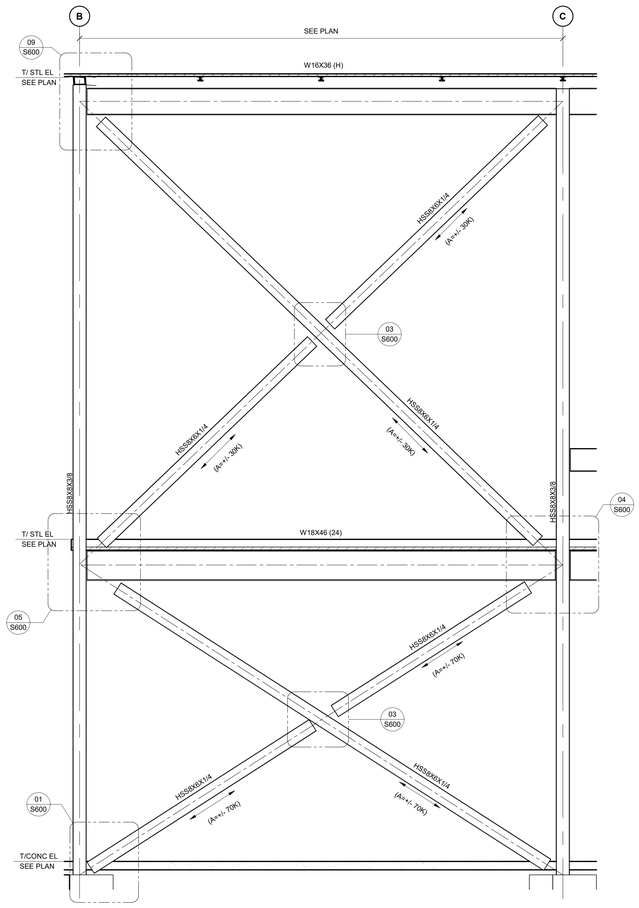
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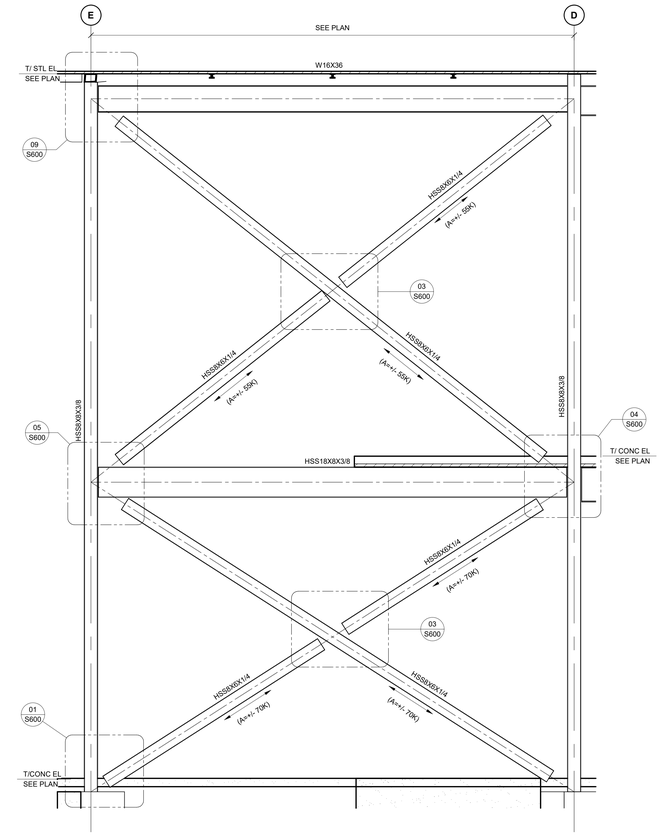
BRACED FRAME ELEVATIONS **S601**



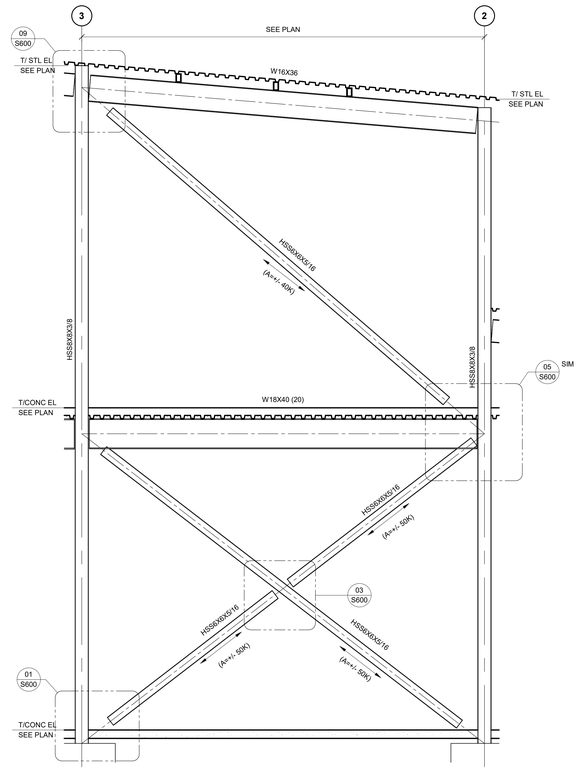
05 BF-11 (ALONG GIRD LINE B)
3/8" = 1'-0"



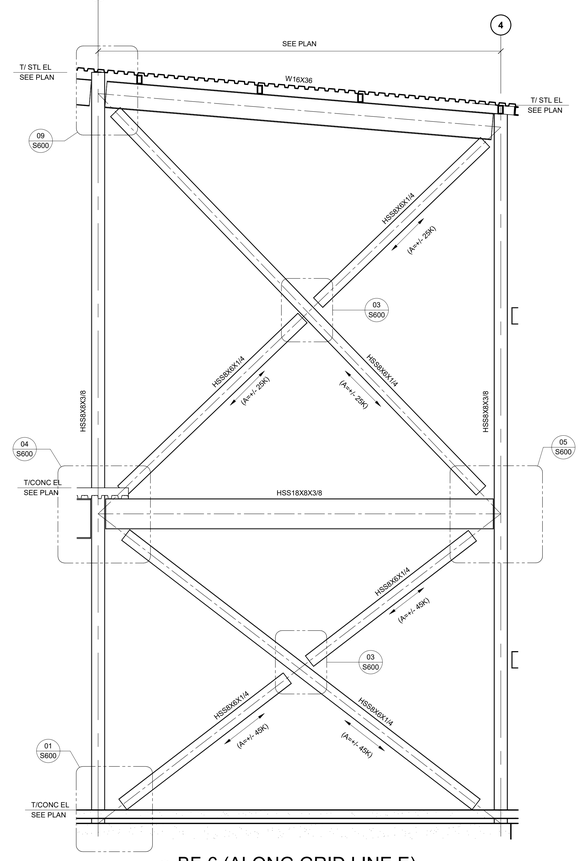
03 BF-10 (ALONG GRID LINE 6)
3/8" = 1'-0"



01 BF-5 (ALONG GRID LINE 4)
3/8" = 1'-0"



04 BF-14 (ALONG GRID LINE D)
3/8" = 1'-0"



2 BF-6 (ALONG GRID LINE E)
3/8" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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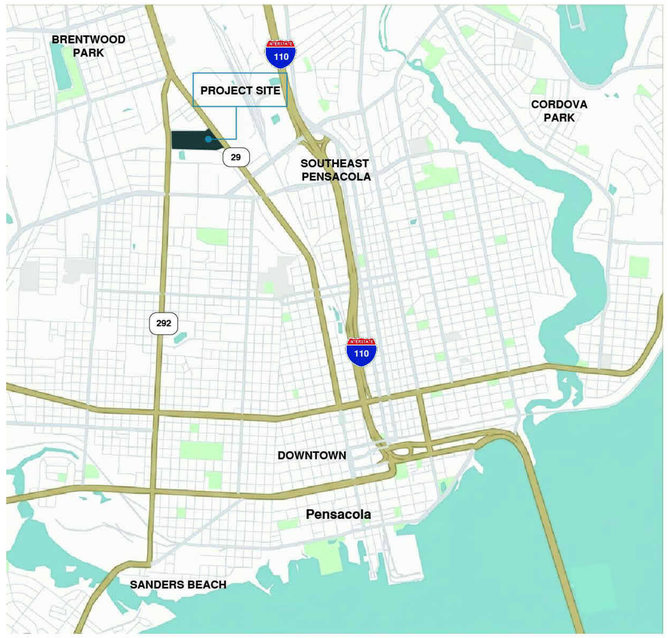
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
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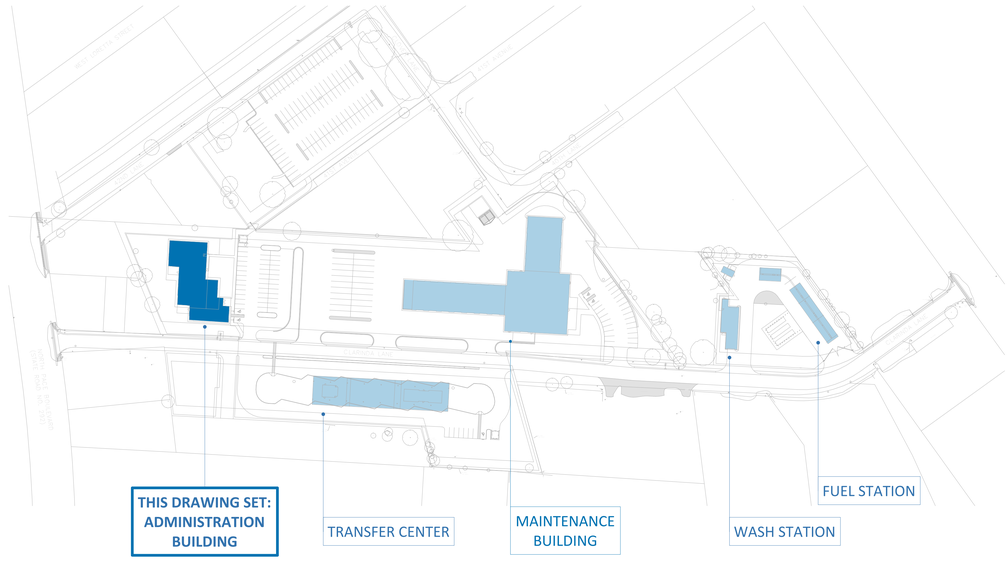
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

BRACED FRAME ELEVATIONS S602





SITE LOCATION PLAN

ABBREVIATIONS

GENERAL

A/C	Air Conditioning
A.F.F.	Above Finished Floor
APPROX	Approximate
ARCH	Architectural
BLDG	Building
BM	Beam
BOT	Bottom
BSMT	Basement
CL	Centerline
CLG	Ceiling
CONC	Concrete
CONST	Construction
CONTR	Contractor
CTR	Center
DET	Detail
DIM	Dimension
DN	Down
E	East
E.O.S.	Edge of Slab
EL	Elevation
ENCL	Enclosure
EXST	Existing
EXP	Expansion
FC	Fiber Cement
F.G.	Finish Grade
FIN	Finish
F.O.C.	Face of Concrete
F.O.F.	Face of Finish
F.O.M.	Face of Masonry
F.O.S.	Face of Stud
FR	Frame
FS	Full Size
FT	Foot or Feet
FUT	Future
GA	Gauge
GALV	Galvanized
GD	Grade
GND	Ground
G.B.	Gypsum Board
H.B.	Hose Bib
H.C.	Hollow Core
HCP	Handicapped
HORIZ	Horizontal
HR	Hour
HT	Height
H.W.	Hot Water
HVAC	Heating, Ventilation and Cooling
I.D.	Inside Diameter
INCL	Including
JNT	Joint
JST	Joist
L.H.	Left Hand
LT	Light
MATL	Material
MAX	Maximum
MECH	Mechanical
MET	Metal
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
N	North
N.I.C.	Not in Contract
NO	Number
NOM	Nominal
S	South
S.A.D.	See Architectural Drawings
S.S.	Stainless Steel
S.S.D.	See Structural Drawings
STD	Standard
STRUCT	Structural
SYM.	Symmetrical
SUSP	Suspended
THK	Thick or Thickness
T.O.C.	Top of Curb
T.O.D.	Top of Drain
T.O.T.	Top of Truss
T.O.W.	Top of Wall
TYP	Typical
U.O.N.	Unless Otherwise Noted
UNF	Unfinished
VERT	Vertical
V.I.F.	Verify in Field
W	West
W/	With
W/O	Without

EXTERIOR WALLS

AB	Anchor Bolt
AVB	Air/Vapor Barrier
CI	Continuous Insulation
CMU	Concrete Masonry Unit
FDN	Foundation
FTG	Footing
MB	Metal Backup
SFRM	Spray-Applied Fire-Resistant Material
SHT	Sheathing
WRB	Weather-Resistant Barrier

CLADDING & FINISHES

ACC	Architectural Concrete Cladding
ACM	Aluminum Composite Material
A.F.F.	Above Finished Floor
AL PN	Aluminum Panel
ANOD	Anodized
ASPH	Asphalt
BRK	Brick
FCB	Fiber Cement Board
FCP	Fiber Cement Panel
EIFS	Exterior Insulation and Finish System
GRFC	Glass Fiber Reinforced Concrete
MCM	Metal Composite Material
PCP	Precast Concrete Panel
T&G	Tongue and Groove
TRM	Trim
VDL	Vertical Drip Leg
WD SLP	Wood Siding, Lap

OPENINGS

ALUM	Aluminum
CLR	Clear (glass or opening)
FIX	Fixed (window)
GL	Glass or Glazing
IGU	Insulated Glass Unit
INSUL	Insulation
LVR	Louver
M.O.	Masonry Opening
OH	Overhead (door)
OPNG	Opening
R.O.	Rough Opening
SGU	Single Glass Unit
SL	Sill
WDW	Window

ROOF & DRAINAGE

B.U.R	Built Up Roofing
DS	Downspout
EPDM	Ethylene Propylene Diene Monomer
GUT	Gutter
INS	Insulation
MBR	Membrane
PAR	Parapet
RD	Roof Drain
RFG	Roofing
SCUP	Scupper
T.O.P.	Top of Parapet
TPO	Thermoplastic Polyolefin (membrane)

PLAN SYMBOLS

VIEW TITLE — 1 DRAWING TITLE, X" = Y'-Y"

NORTH ARROW — N

GRID HEAD — D.27

SECTION — DETAIL NO. 1, SHEET NO. A101

ELEVATION — DETAIL NO. 1, SHEET NO. A101

DETAIL — DETAIL NO. X, SHEET NO. AX.X, REFERENCE AREA

KEYNOTE — ?

DOOR TAG — 000

ROOM TAG — ROOM, 1

CEILING TAG — CEILING TYPE, X' - Y" A.F.F.

WINDOW TAG — H

ROOM TAG (FINISHES) — ROOM, 101, FLR | BASE, WALL

ROOM FINISH TAG — 0

REVISION CLOUD — REVISION NO. 01

PROJECT PLAN NOTES

VALUE	DESCRIPTION

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL, EXPY #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N. CENTRAL EXPRESSWAY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
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Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

Discipline: Owner Consultant
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PMB #69
545 BRENT LN. PENSACOLA, FL
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SITE LOCATION PLAN, ABBREVIATIONS, AND SYMBOLS LEGEND **G000**

PROJECT DATA

PROJECT DESCRIPTION: NEW CONSTRUCTION
ADMINISTRATION OFFICE
BUILDING AND PUBLIC MEETING ROOM
FOR ECAT COMPLEX

GOVERNING CODES:
2023 FLORIDA BUILDING CODE, EIGHTH EDITION
2023 FLORIDA BUILDING CODE—ACCESSIBILITY, EIGHTH EDITION
2023 FLORIDA BUILDING CODE—ENERGY CONSERVATION, EIGHTH EDITION

REFER TO ENGINEERING DISCIPLINE SHEETS FOR ADDITIONAL CODES.

USE GROUP CLASSIFICATION:
FIRST FLOOR: B - BUSINESS
SECOND FLOOR: A-3 - ASSEMBLY

CONSTRUCTION CLASSIFICATION: TYPE IIB - NONCOMBUSTILE, UNPROTECTED

FIRE SUPPRESSION SYSTEM: AUTOMATIC SPRINKLER SYSTEM

FIRE ALARM SYSTEM: YES

NUMBER OF FLOORS: 2

	ACTUAL	ALLOWABLE
HEIGHT ABOVE GRADE PLANE:	40'	75'
STORIES ABOVE GRADE PLANE:	2	4

AREA OF FLOORS:

	ACTUAL	ALLOWABLE
FIRST FLOOR:	10,835 S.F.	28,000 S.F.
SECOND FLOOR:	6,130 S.F.	28,500 S.F.

CAPACITY OF EXITS:

COMMON PATH:	SEE CODE PLAN
DEAD END CORRIDOR:	SEE CODE PLAN
EXIT ACCESS TRAVEL DISTANCE:	SEE CODE PLAN
SINGLE DOOR CAPACITY (3'-0" TYP):	0.2" PER OCCUPANT (TYP:36"/0.2" = 180 MAX OCCUPANTS)
DOUBLE DOOR CAPACITY (PAIR OF 3'-0", TYP):	0.2" PER OCCUPANT (TYP: 72"/0.2" = 360 MAX OCCUPANTS)
STAIR CAPACITY: (WIDTHS VARY)	0.2" PER OCCUPANT (SEE CODE PLAN FOR WIDTH/OCCUPANTS)

SHAFT ENCLOSURE (STAIR B): 1-HOUR FIRE BARRIER

CORRIDOR FIRE RATING: 0 HOURS

MINIMUM NUMBER OF PLUMBING FIXTURES

	WATER CLOSETS		LAVATORIES		UNISEX		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE	WC	LAVS			
BUSINESS									
OCCUPANTS:	77	77	77	77					
PROVIDED:	4	4	4	4	1	1	2	1	1
REQUIRED:	3	3	2	2	0	0	0	1	1
ASSEMBLY									
OCCUPANTS:	71	71	71	71					
PROVIDED:	2	2	2	2			2	1	1
REQUIRED:	3	3	1	1			0	1	1

OCCUPANCY TOTAL:
FIRST FLOOR - BUSINESS : 142
SECOND FLOOR - ASSEMBLY : 154

USE GROUP CLASSIFICATION LEGEND

B BUSINESS (FIRST FLOOR)

A-3 ASSEMBLY (SECOND FLOOR)

ACCESSIBILITY LEGEND

4.5" ROUND ADA PUSH PAD ON 42" HIGH BOLLARD BY PUSH PAD MANUFACTURER

LIFE SAFETY LEGEND

OCCUPANTS

EXITING

1 HR FIRE

EXIT

FEC = FIRE EXTINGUISHER CABINET, SEMI-RECESSED

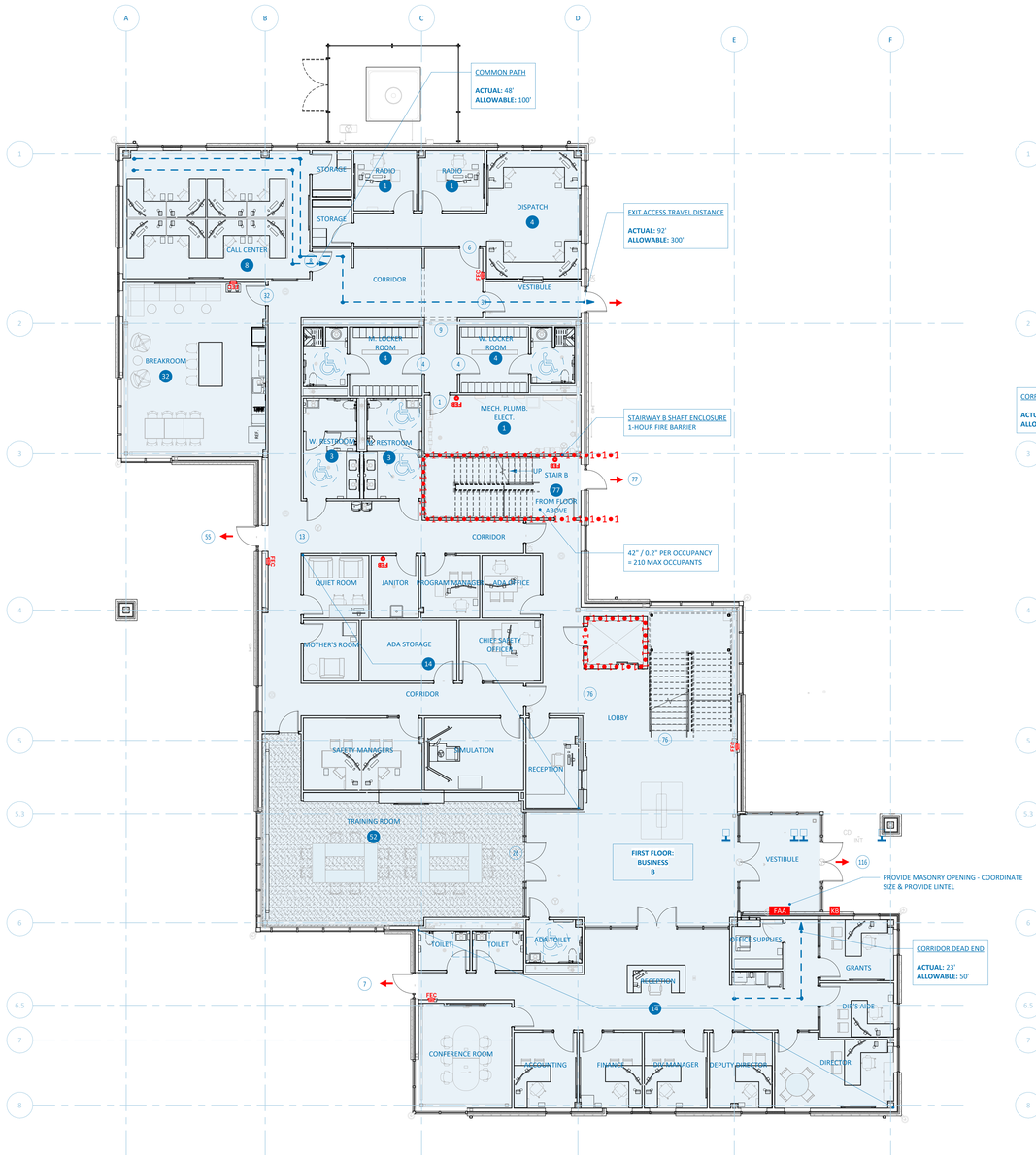
FEB = FIRE EXTINGUISHED BRACKET

FAA = FIRE ALARM ANNUNCIATOR; RECESSED

KB = KNOX BOX; RECESSED 6FT ABOVE PAVEMENT

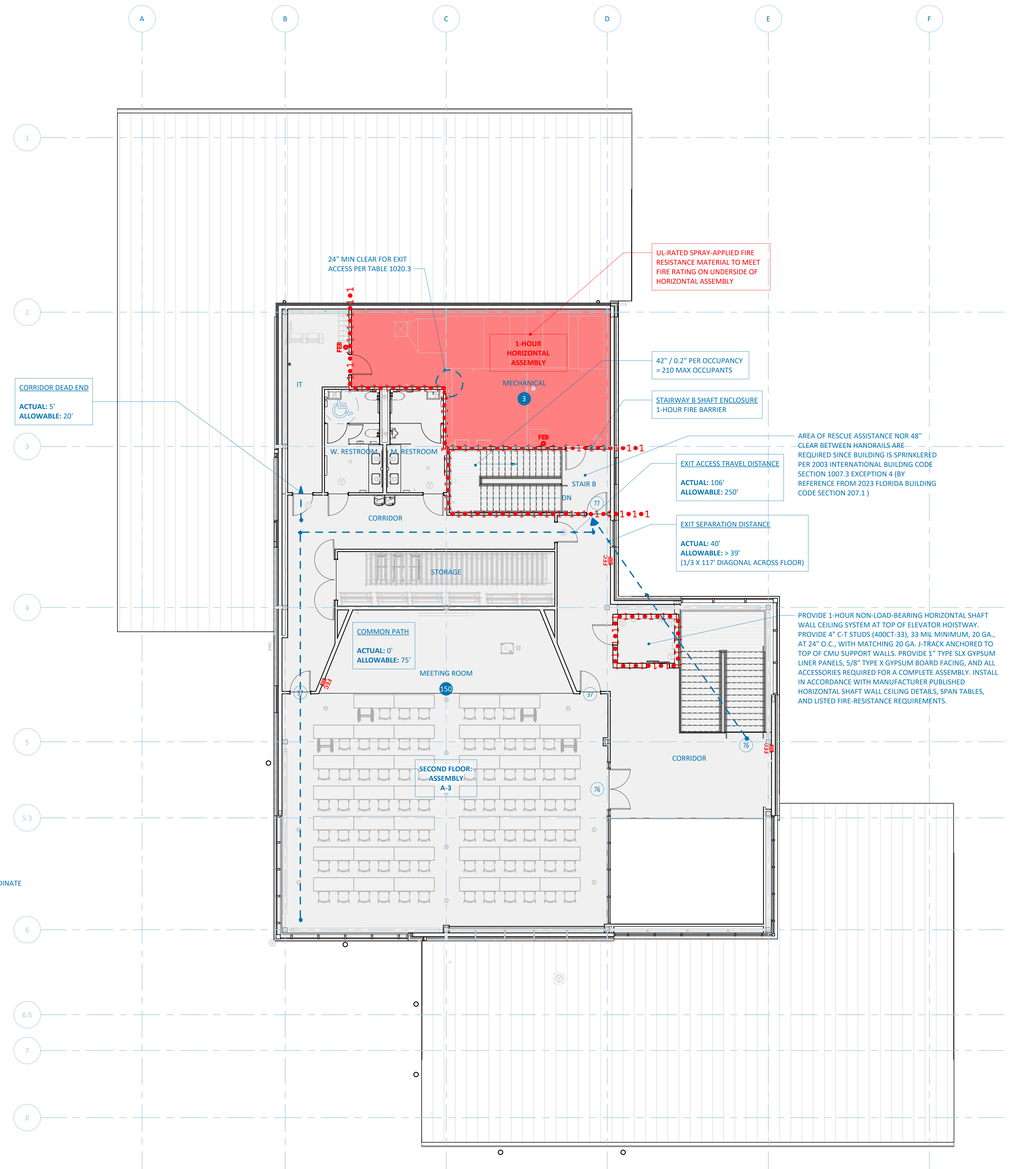
PATH OF TRAVEL

HORIZONTAL ASSEMBLY



1 FIRST FLOOR CODE PLAN

1/8" = 1'-0"



2 SECOND FLOOR CODE PLAN

1/8" = 1'-0"

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CODE PLAN G001

PROJECT PLAN NOTES

VALUE DESCRIPTION

7

PLAN SYMBOLS

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1 DRAWING TITLE
X" = Y'-Y"

NORTH ARROW


GRID HEAD

SECTION
DETAIL NO.
SHEET NO.


ELEVATION
DETAIL NO.
SHEET NO.


DETAIL
DETAIL NO.
SHEET NO.
REFERENCE AREA


KEYNOTE

DOOR TAG

ROOM TAG


CEILING TAG


WINDOW TAG

ROOM TAG (FINISHES)


ROOM FINISH TAG

REVISION CLOUD
REVISION NO.
REVISION CLOUD


SHELL ABBREVIATIONS

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ROOF & DRAINAGE

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EPDM	Ethylene Propylene Diene Monomer
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INS	Insulation
MBR	Membrane
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RFG	Roofing
SCUP	Scupper
T.O.P.	Top of Parapet
TPO	Thermoplastic Polyolefin (membrane)

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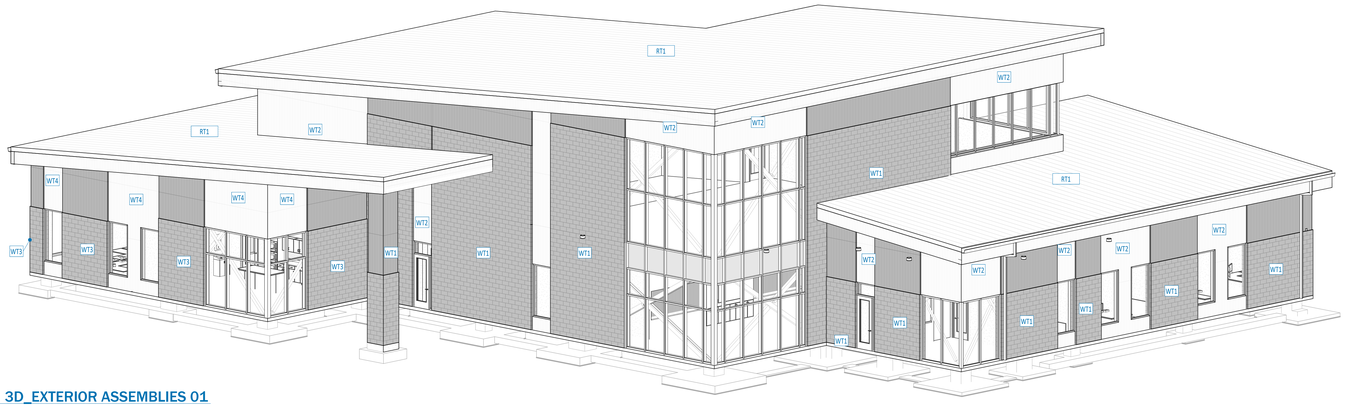
Discipline: Owner Consultant
QSC SERVICES, LLC
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Design and Construction Administration Division
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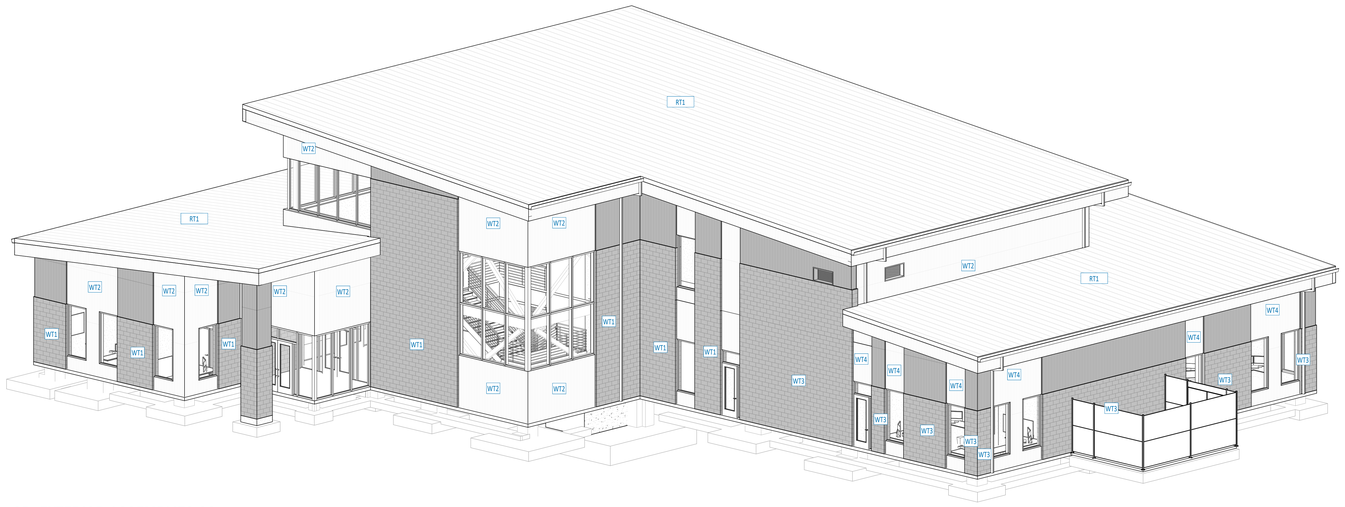
Revisions

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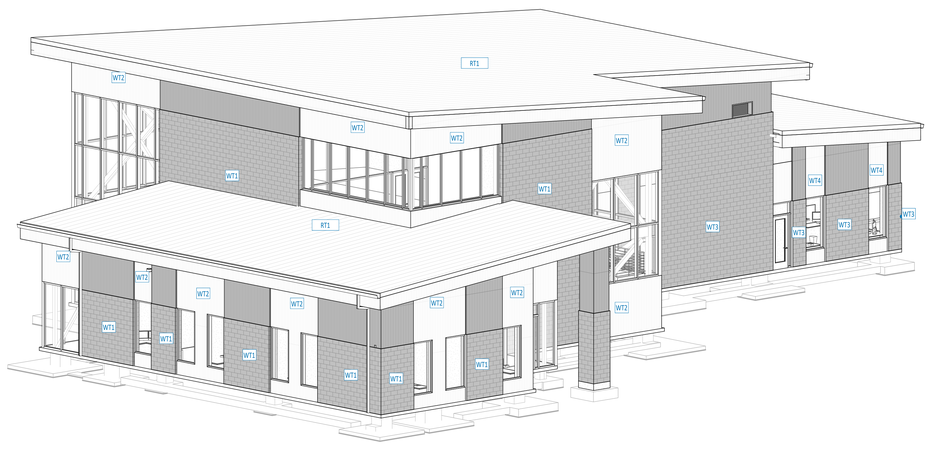
OVERALL KEYNOTE SCHEDULES AND GENERAL NOTES **X000**



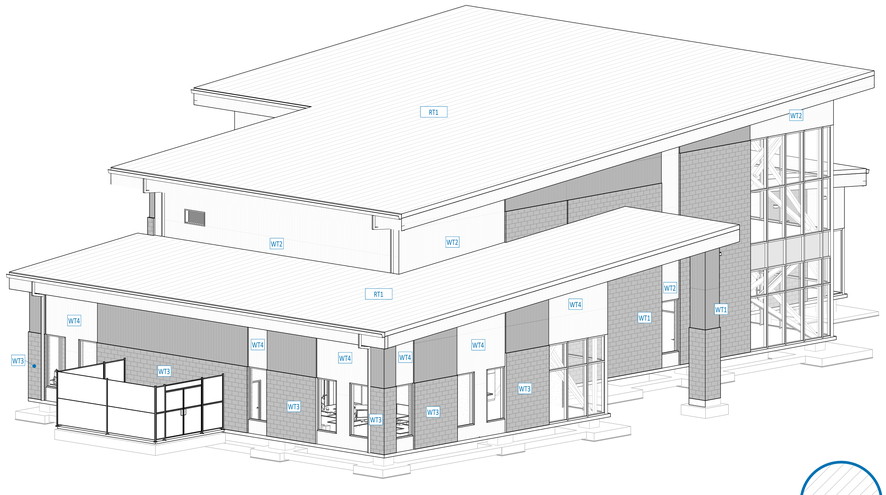
1 3D_EXTERIOR ASSEMBLIES 01



2 3D_EXTERIOR ASSEMBLIES 02



3 3D_EXTERIOR ASSEMBLIES 03

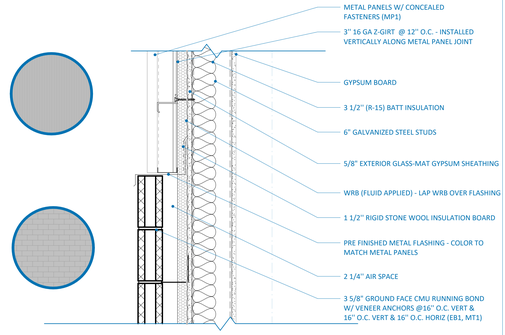


4 3D_EXTERIOR ASSEMBLIES 04

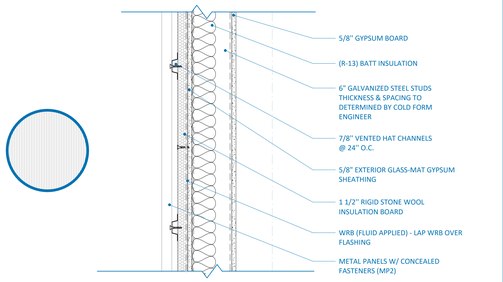
EXTERIOR FINISH SCHEDULE

EB1	ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 12" X 16" - COLOR: 5108 (DARK)
EB2	ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 12" X 16" - COLOR: 5301 (LIGHT)
EB3	ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 8" X 16" - COLOR: 5301 (LIGHT)
EB4	ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 8" X 16" - COLOR: 5301 (DARK)
MP1	MBCI - CONCEALED FASTENING SYSTEM - FW-120-2 PANEL, 24 GAUGE, SMOOTH - COLOR: BROWNSTONE
MP2	ARMSTRONG WALL & ROOF SYSTEMS - PBU PANEL - COLOR: POLAR WHITE
MT1	SOLOMON COLORS, INC., CONCENTRATED MORTAR - COLOR: 22X TAN

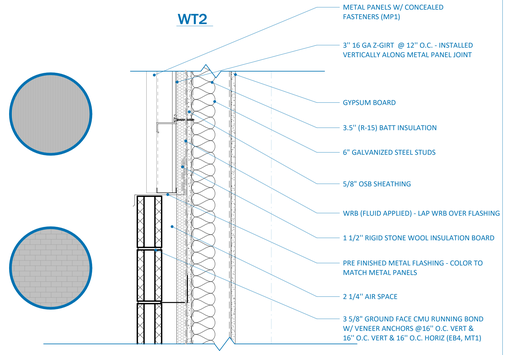
EXTERIOR WALL TYPE (WT) ASSEMBLIES



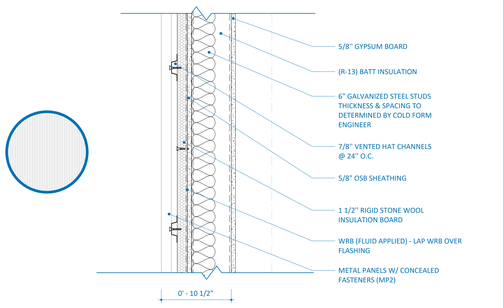
WT1



WT2

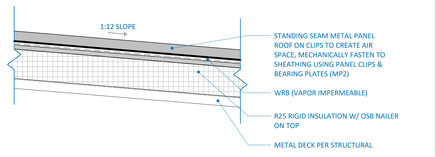


WT3



WT4

ROOF TYPE (RT) ASSEMBLIES



RT1

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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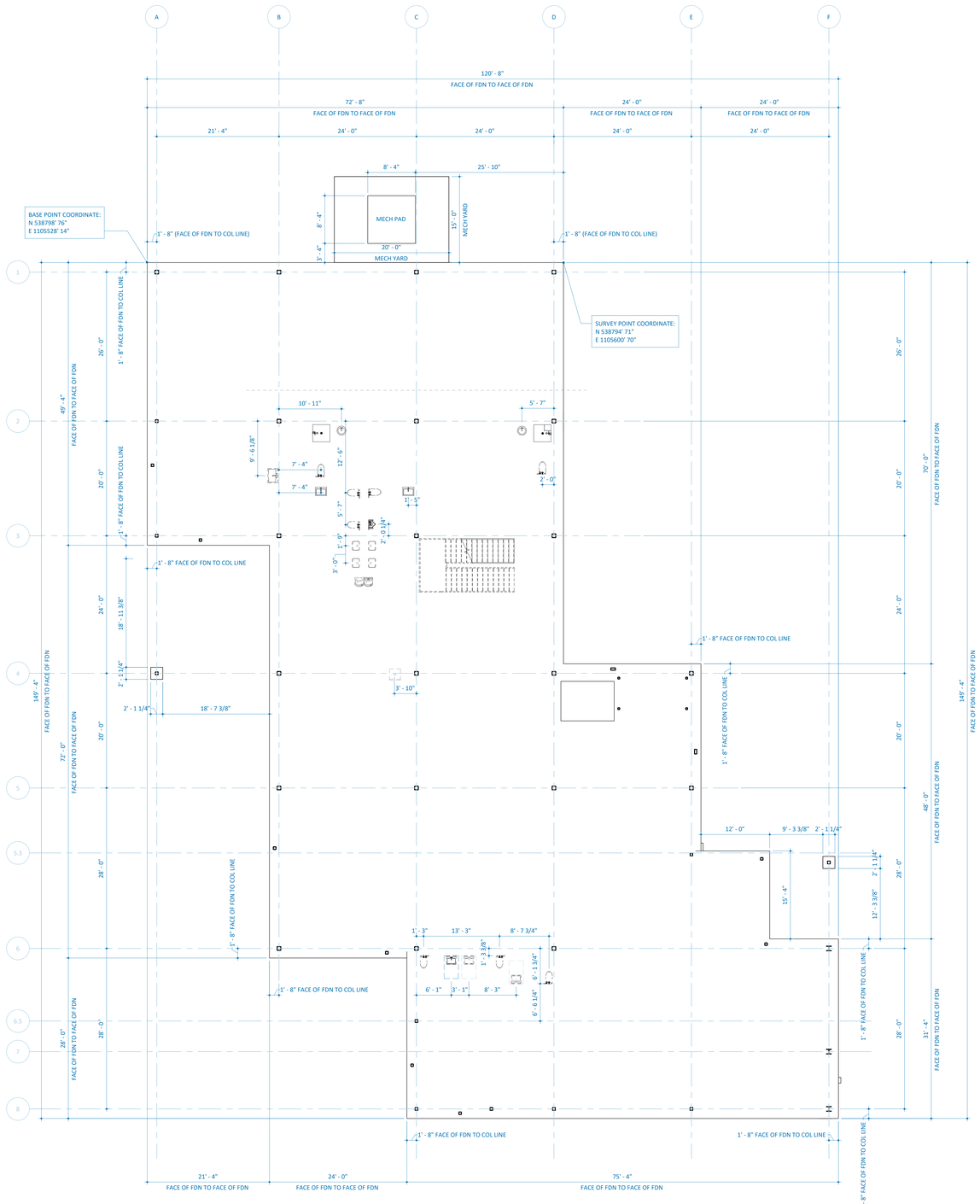
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Revisions

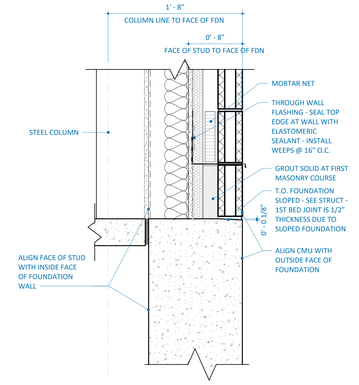
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3D VIEWS AND WALL / ROOF ASSEMBLIES X001



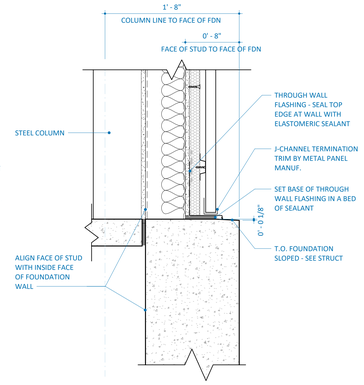
1 FIRST FLOOR LAYOUT PLAN

1/8" = 1'-0"



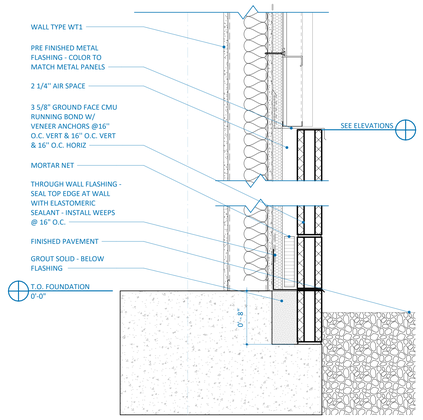
2 FOUNDATION DETAIL, TYP. AT WT1

1 1/2" = 1'-0"



3 FOUNDATION DETAIL, TYP. AT WT2

1 1/2" = 1'-0"



4 FOUNDATION DETAIL, TYP. AT EXT COLUMN ENCLOSURES

1 1/2" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL, EXPY #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N. CENTRAL EXPRESSWAY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL, EXPY #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
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P - 515.259.5957

Discipline: Owner Consultant
OSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

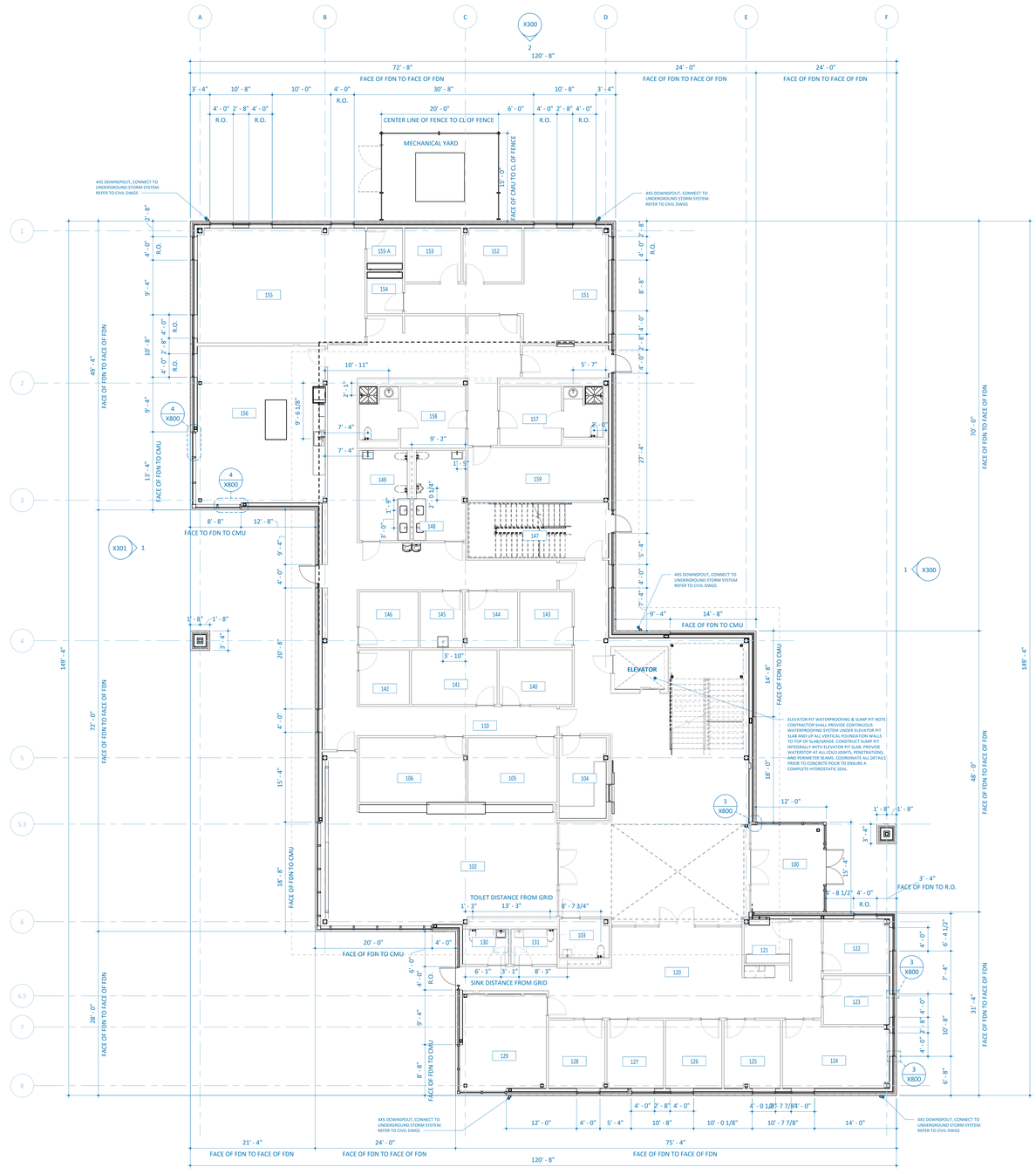
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Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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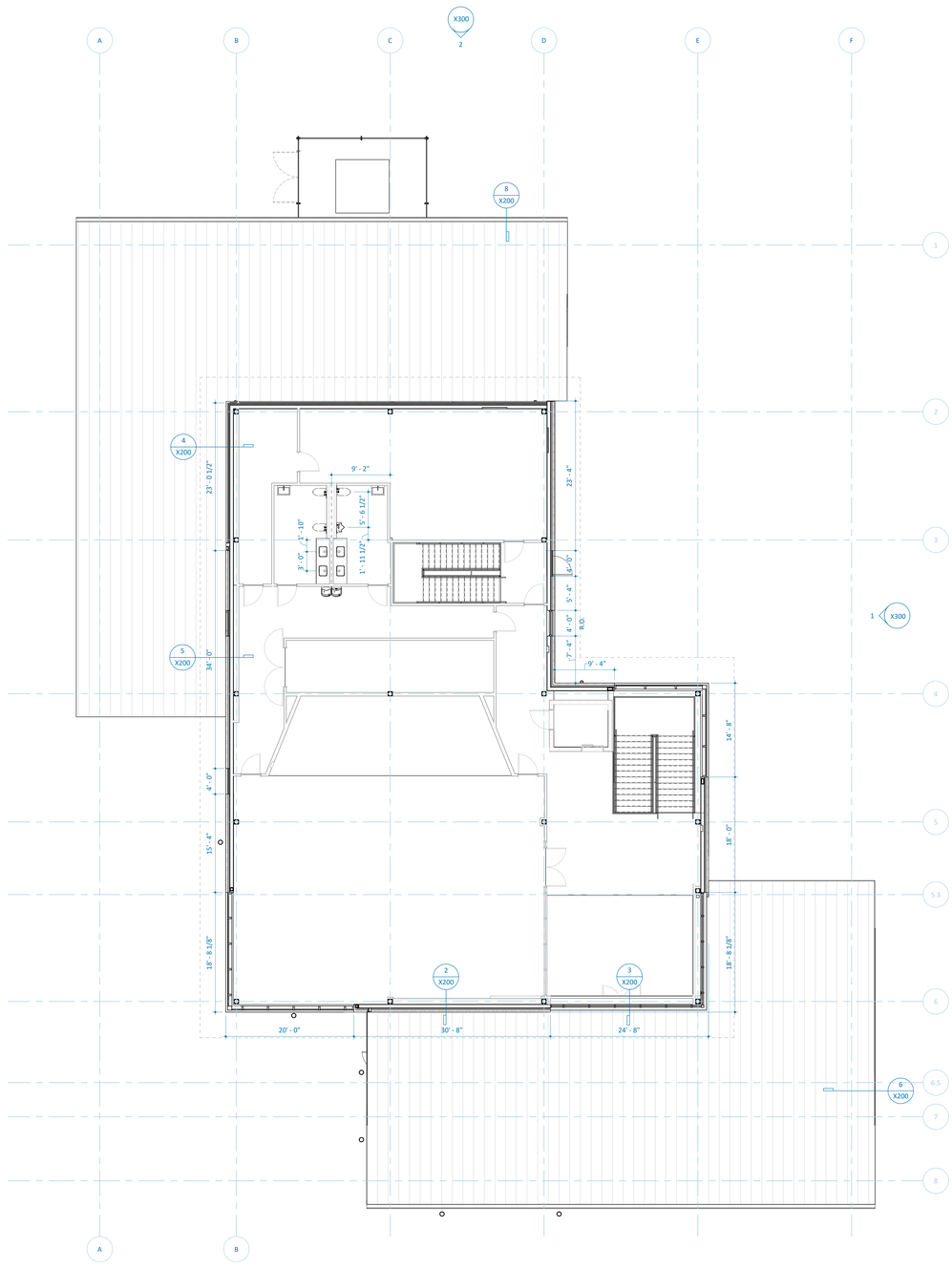
LAYOUT PLAN **X002**

PROVIDE UNDER SLAB AT VAPOR BARRIER



1 EXTERIOR DIMENSION PLAN

1/8" = 1'-0"



2 SECOND FLOOR EXTERIOR DIMENSION PLAN

1/8" = 1'-0"

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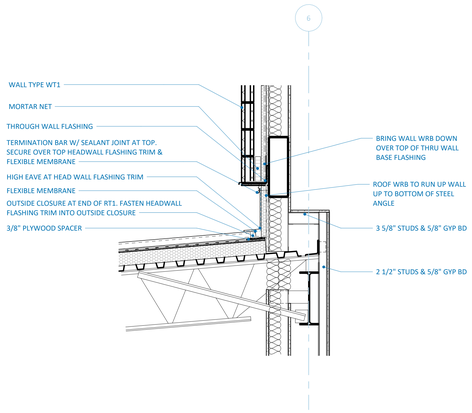
Discipline: Owner Consultant
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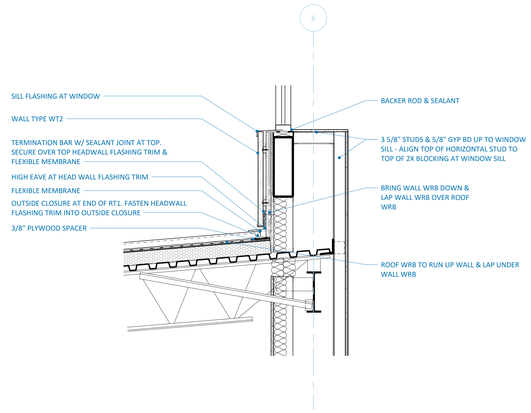
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EXTERIOR DIMENSION PLAN **X112**



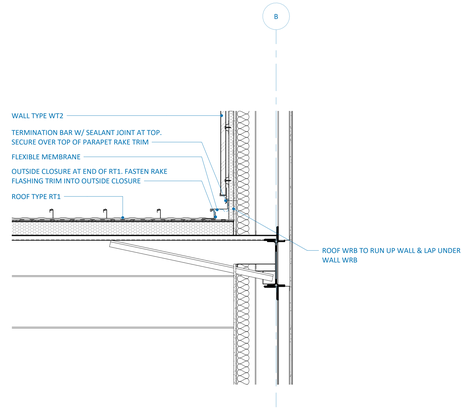
2 HEADWALL DETAIL - RT1 TO WT1

3/4" = 1'-0"



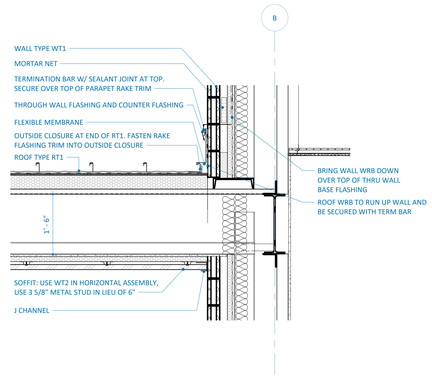
3 HEADWALL DETAIL - RT1 TO WT2

3/4" = 1'-0"



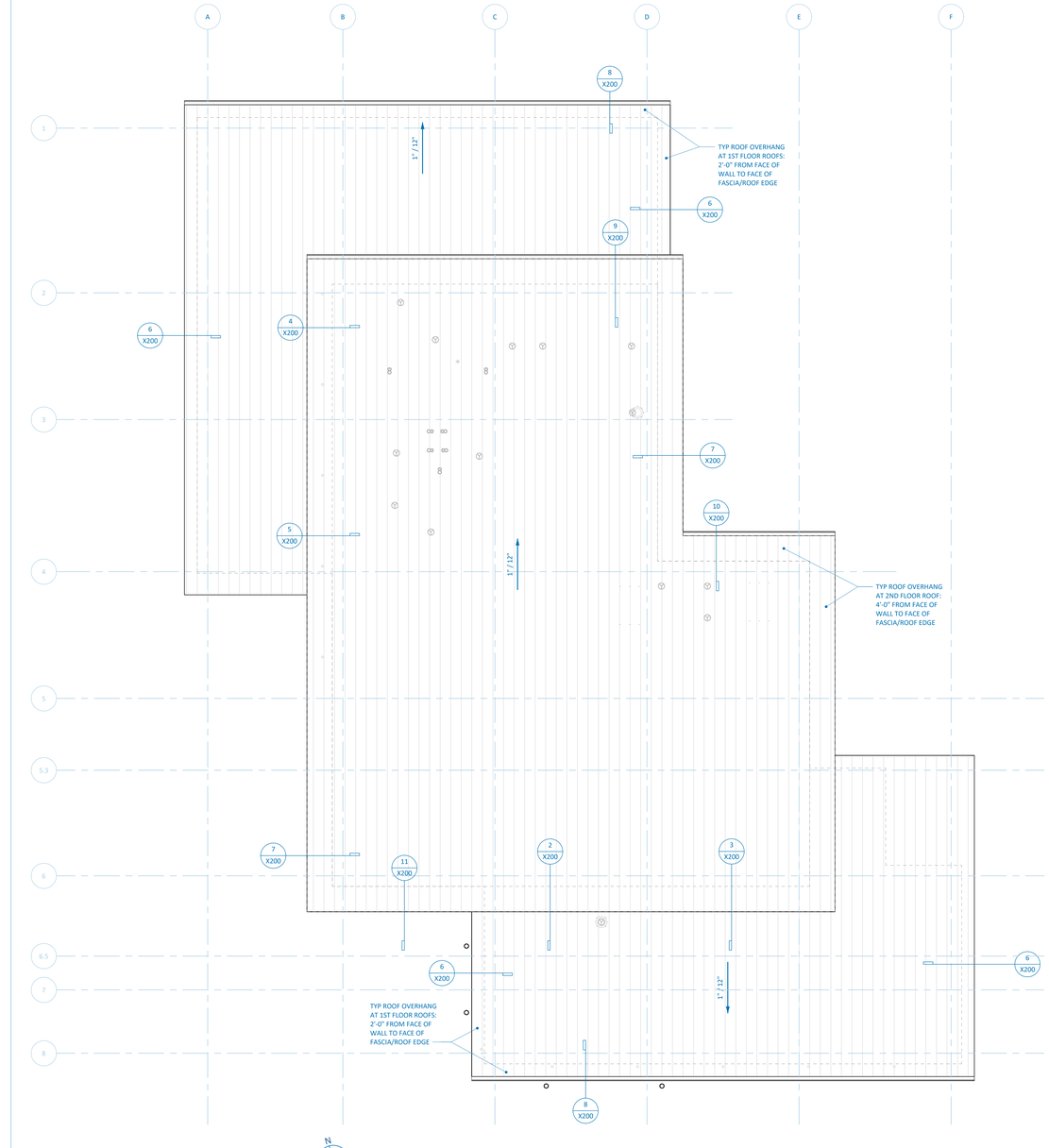
4 SIDEWALL DETAIL - RT1 (FIRST FLOOR) TO WT2

3/4" = 1'-0"



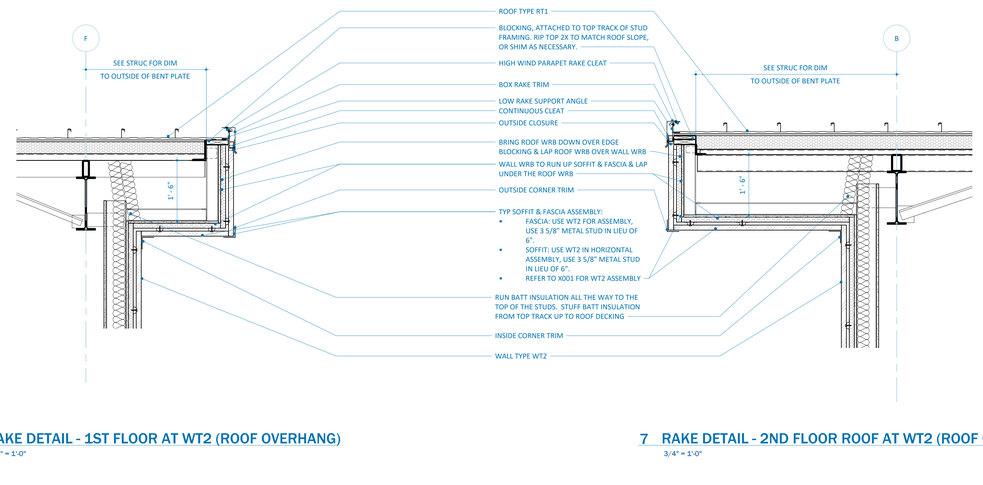
5 SIDEWALL DETAIL - RT1 (FIRST FLOOR) TO WT1

3/4" = 1'-0"



1 ROOF PLAN

1/8" = 1'-0"

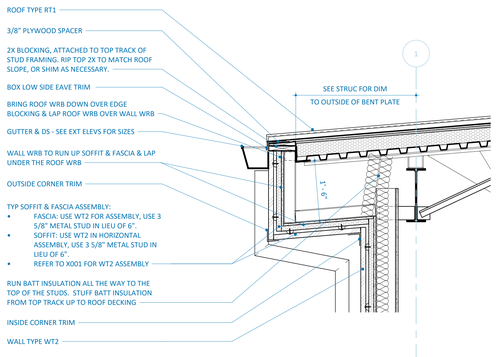


6 RAKE DETAIL - 1ST FLOOR AT WT2 (ROOF OVERHANG)

3/4" = 1'-0"

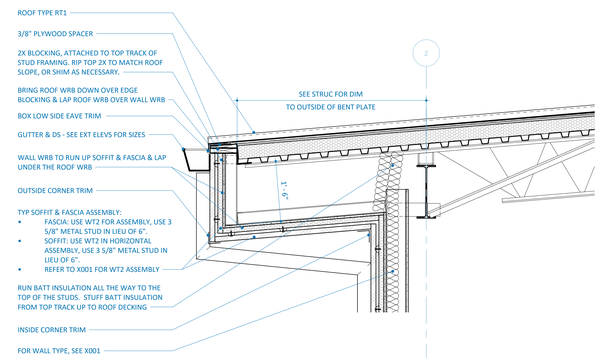
7 RAKE DETAIL - 2ND FLOOR ROOF AT WT2 (ROOF OVERHANG)

3/4" = 1'-0"



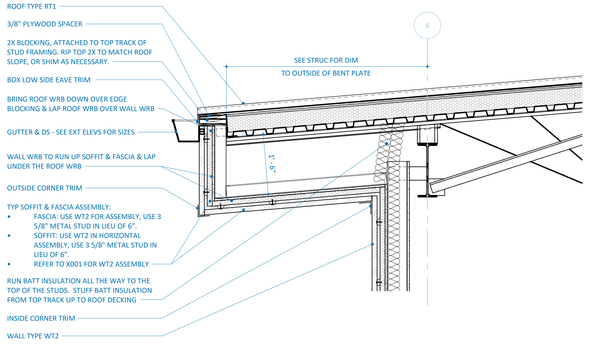
LOW EAVE DETAIL - 1ST FLOOR ROOF AT WT2
8 ROOF OVERHANG - SOFFIT, FASCIA, GUTTER)

3/4" = 1'-0"



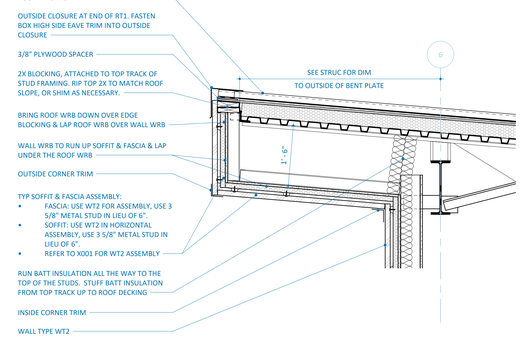
LOW EAVE DETAIL - 2ND FLOOR ROOF AT WT1
9 (ROOF OVERHANG - SOFFIT, FASCIA, GUTTER)

3/4" = 1'-0"



LOW EAVE DETAIL - 2ND FLOOR ROOF AT WT2
10 (ROOF OVERHANG - SOFFIT, FASCIA, GUTTER)

3/4" = 1'-0"



HIGH EAVE DETAIL - 2ND FLOOR ROOF AT WT2
11 (ROOF OVERHANG - SOFFIT, FASCIA)

3/4" = 1'-0"

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KEDbluestone
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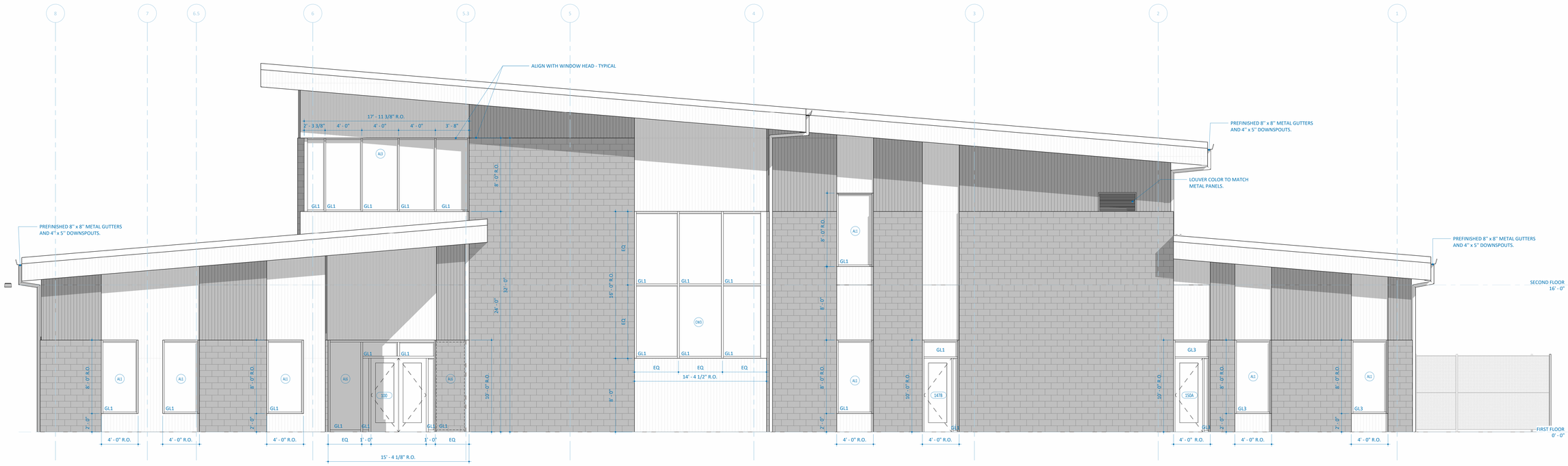
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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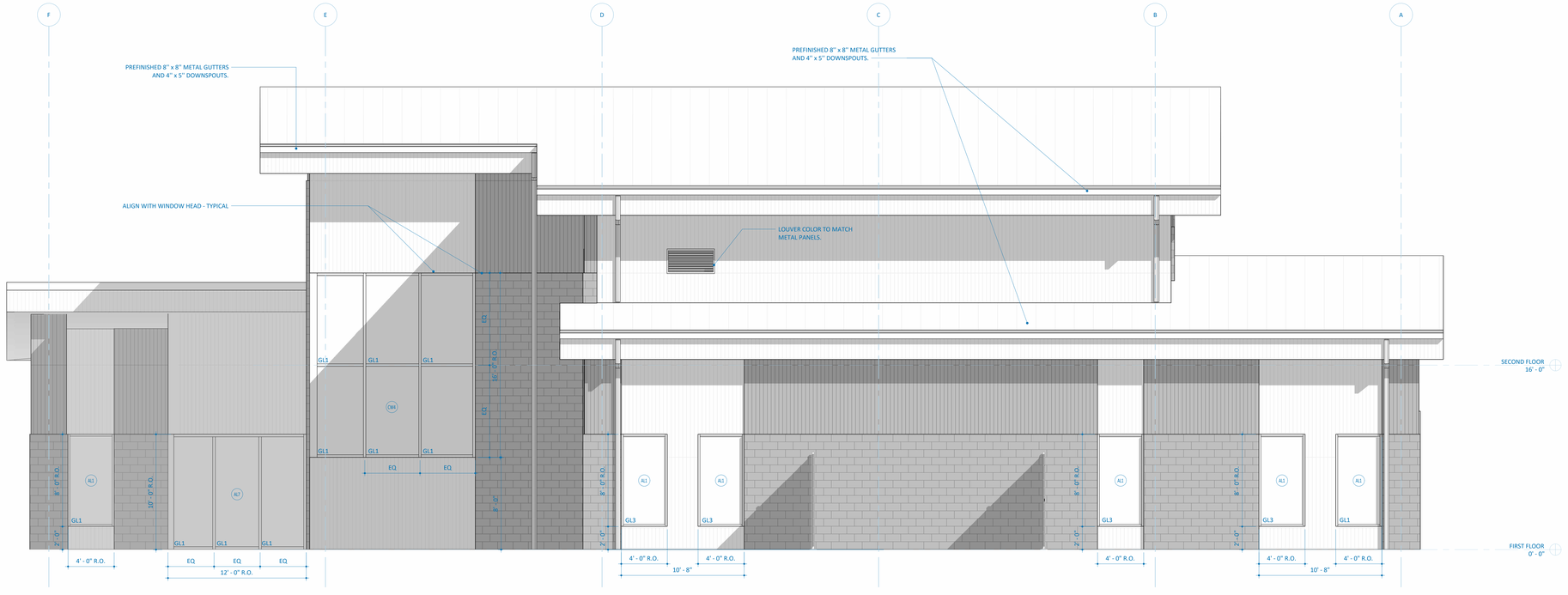
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ROOF PLAN AND ROOF DETAILS X200



1 EAST ELEVATION

1/4" = 1'-0"



2 NORTH ELEVATION

1/4" = 1'-0"

WINDOW SCHEDULE

AL1	KAWNEER	IR Trifab 451T Center Set
AL2	KAWNEER	IR Trifab 451T Center Set
AL3	KAWNEER	IR Trifab 451T Center Set
AL4	KAWNEER	IR501T Impact Storefront
AL5	KAWNEER	IR501T Impact Storefront
AL6	KAWNEER	IR501T Impact Storefront
AL7	KAWNEER	IR501T Impact Storefront
AL9		IR Trifab 451T Center Set
AL10		IR Trifab 451T Center Set
AL11	KAWNEER	IR Trifab 451T Center Set
CW1	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall
CW2	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall
CW3	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall

GLAZING SCHEDULE

GL1 1" INSULATED GLAZING UNIT

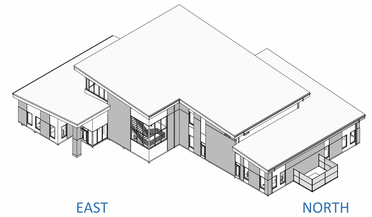
GL2 1" SPANDREL INSULATED GLAZING UNIT

GL3 1" INSULATED GLAZING UNIT (HARDENED AREA)

GL4 1/4" TEMPERED

GENERAL ELEVATION NOTES

1. SEE X001 FOR EXTERIOR WALL TYPE ASSEMBLIES
2. SEE X800 FOR WINDOW DETAILS
3. SEE A900 FOR DOOR DETAILS
4. 'AL' = ALUMINUM STOREFRONT
5. 'CW' = ALUMINUM CURTAIN WALL SYSTEM
6. ALL DOOR PANELS & FRAMES TO BE CLEAR ANODIZED



EAST NORTH

NORTHEAST AERIAL VIEW

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
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Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
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DALLAS, TX 75243
P - 214.749.0333

Discipline:
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Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

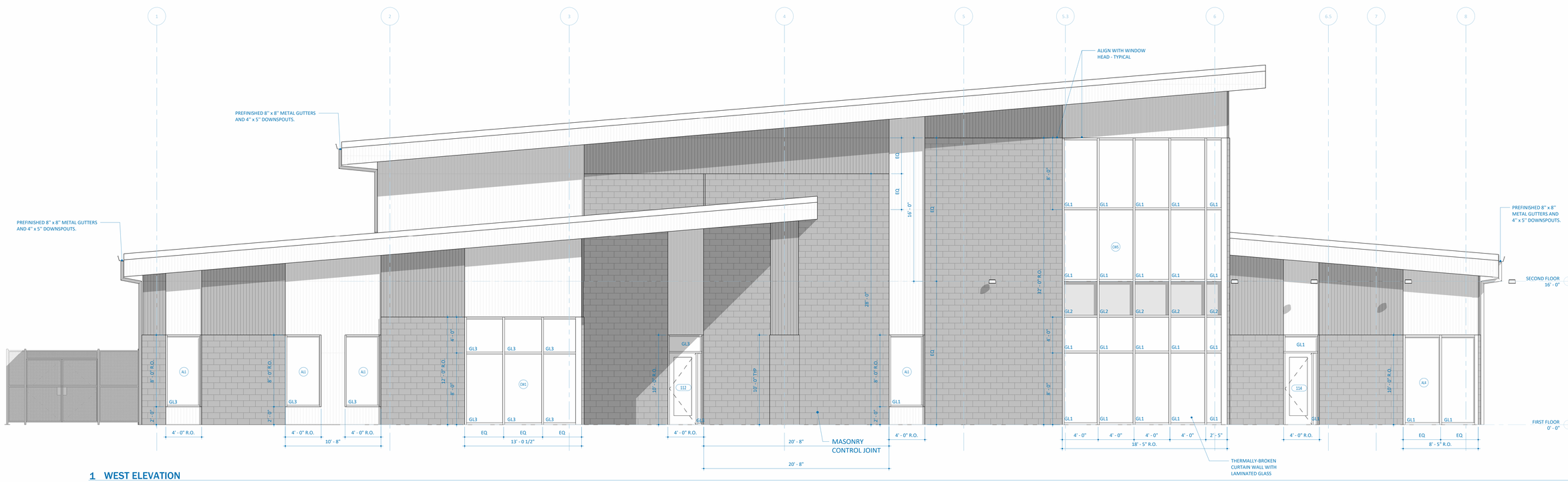
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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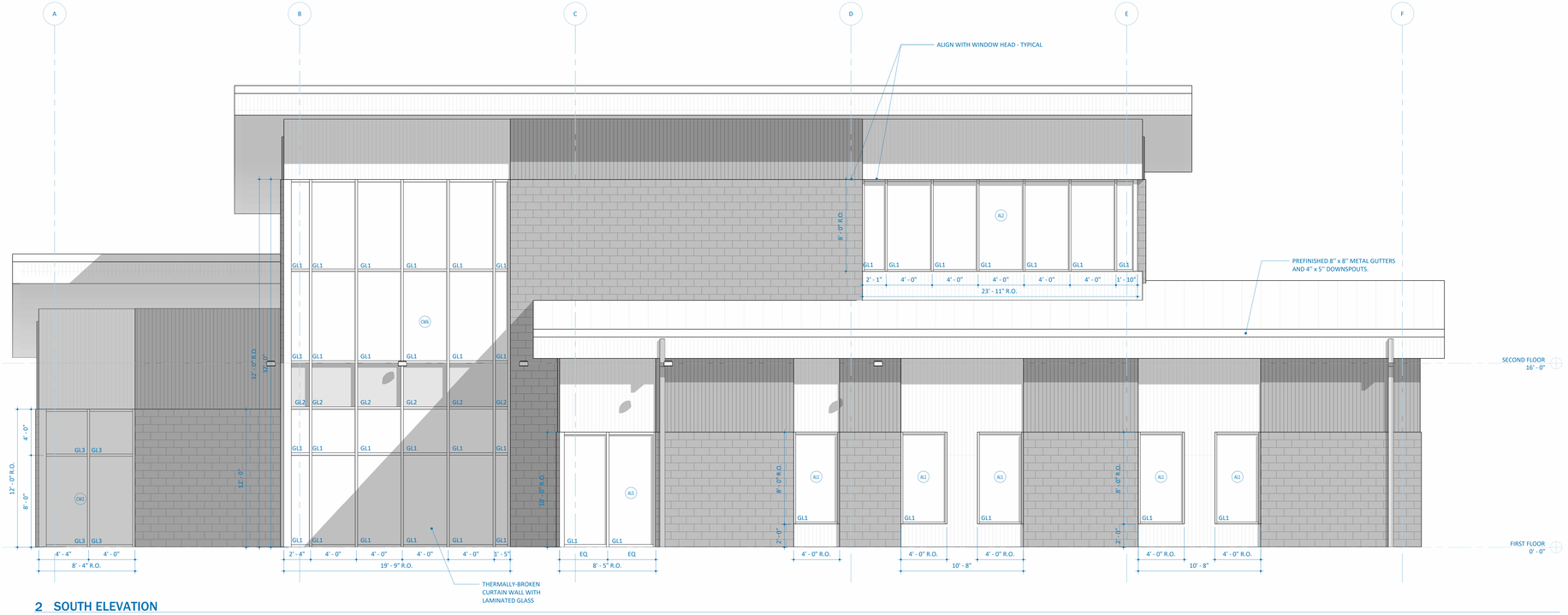
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DATE 10/22/2026
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EXTERIOR ELEVATIONS X300



1 WEST ELEVATION

1/4" = 1'-0"



2 SOUTH ELEVATION

1/4" = 1'-0"

WINDOW SCHEDULE

AL1	KAWNEER	IR Trifab 451T Center Set
AL2	KAWNEER	IR Trifab 451T Center Set
AL3	KAWNEER	IR Trifab 451T Center Set
AL4	KAWNEER	IR501T Impact Storefront
AL5	KAWNEER	IR501T Impact Storefront
AL6	KAWNEER	IR501T Impact Storefront
AL7	KAWNEER	IR501T Impact Storefront
AL9		IR Trifab 451T Center Set
AL10		IR Trifab 451T Center Set
AL11	KAWNEER	IR Trifab 451T Center Set
CW1	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall
CW2	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall
CW3	KAWNEER	IR1600 System 7-13/16" Depth Curtain Wall

GLAZING SCHEDULE

GL1 1" INSULATED GLAZING UNIT

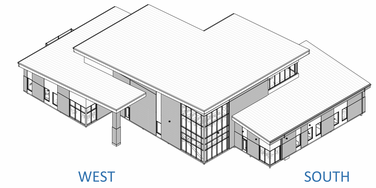
GL2 1" SPANDREL INSULATED GLAZING UNIT

GL3 1" INSULATED GLAZING UNIT (HARDENED AREA)

GL4 1/4" TEMPERED

GENERAL ELEVATION NOTES

1. SEE X001 FOR EXTERIOR WALL TYPE ASSEMBLIES
2. SEE X800 FOR WINDOW DETAILS
3. SEE A900 FOR DOOR DETAILS
4. 'AL' = ALUMINUM STOREFRONT
5. 'CW' = ALUMINUM CURTAIN WALL SYSTEM
6. ALL DOOR PANELS & FRAMES TO BE CLEAR ANODIZED



WEST SOUTH

SOUTHWEST AERIAL VIEW

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
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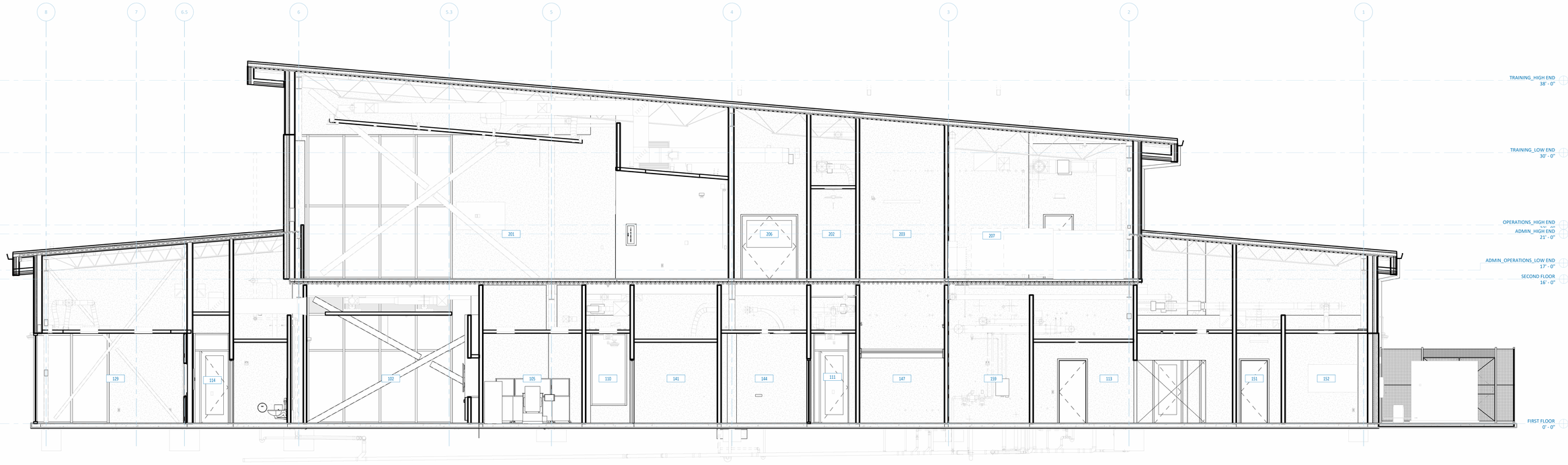
Discipline: Owner Consultant
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Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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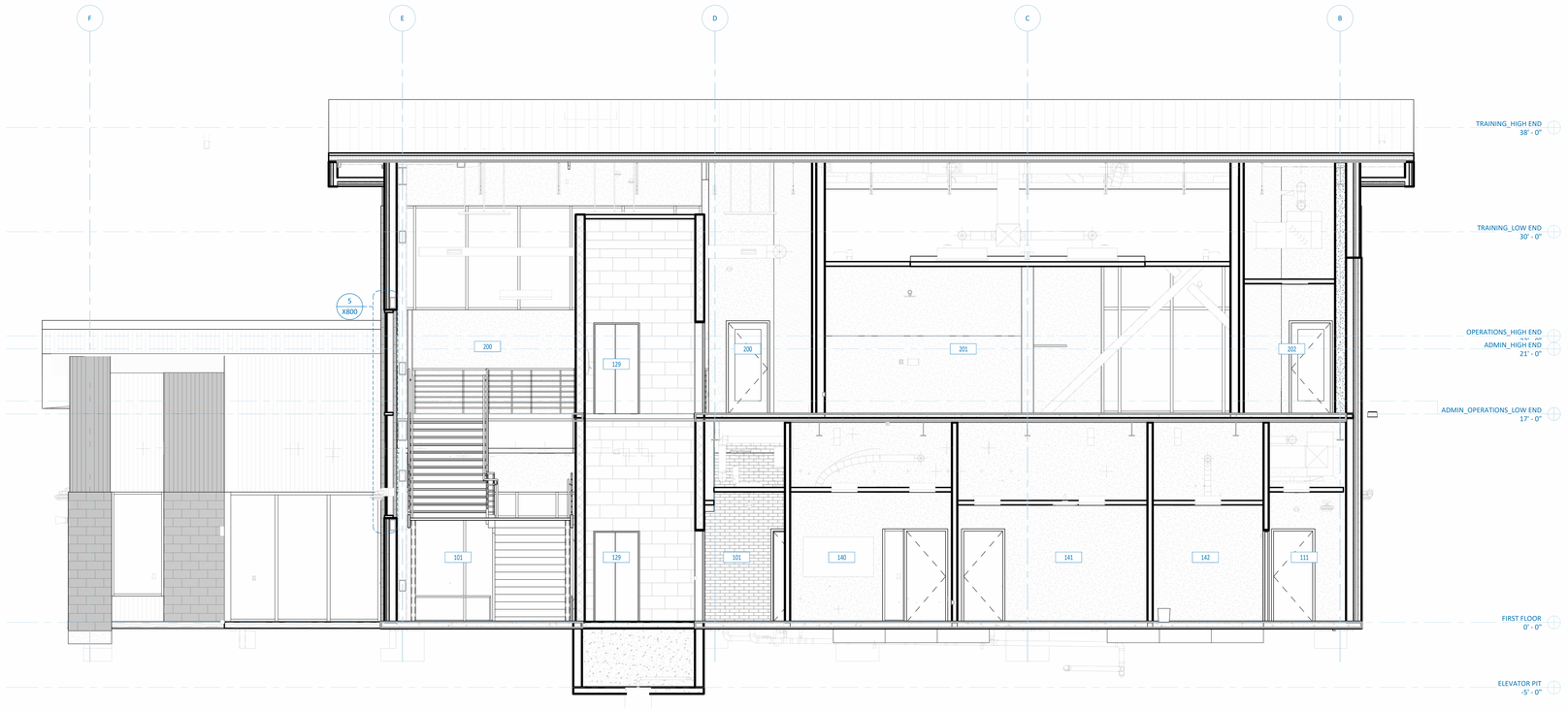
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EXTERIOR ELEVATIONS X301



1 SECTION 1

1/4" = 1'-0"



2 SECTION 2

1/4" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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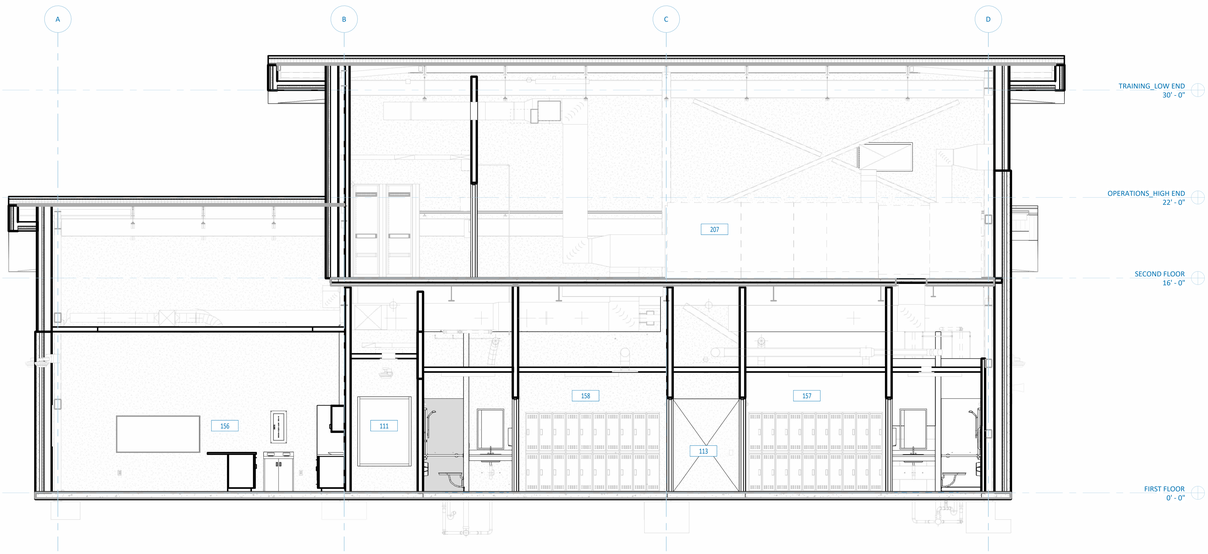
Discipline: Owner Consultant
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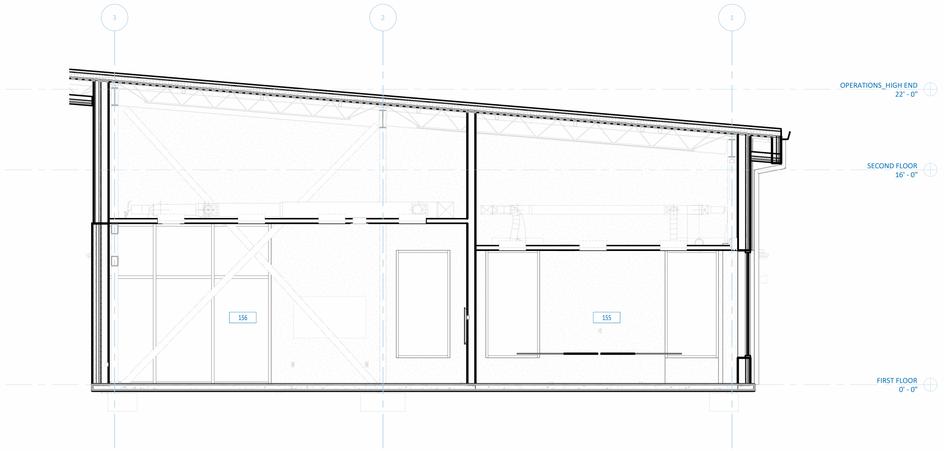
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BUILDING SECTIONS X400



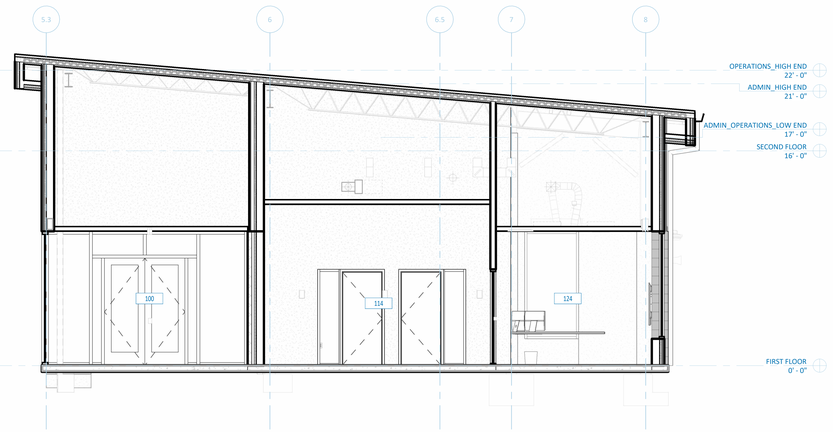
1 SECTION 3

1/4" = 1'-0"



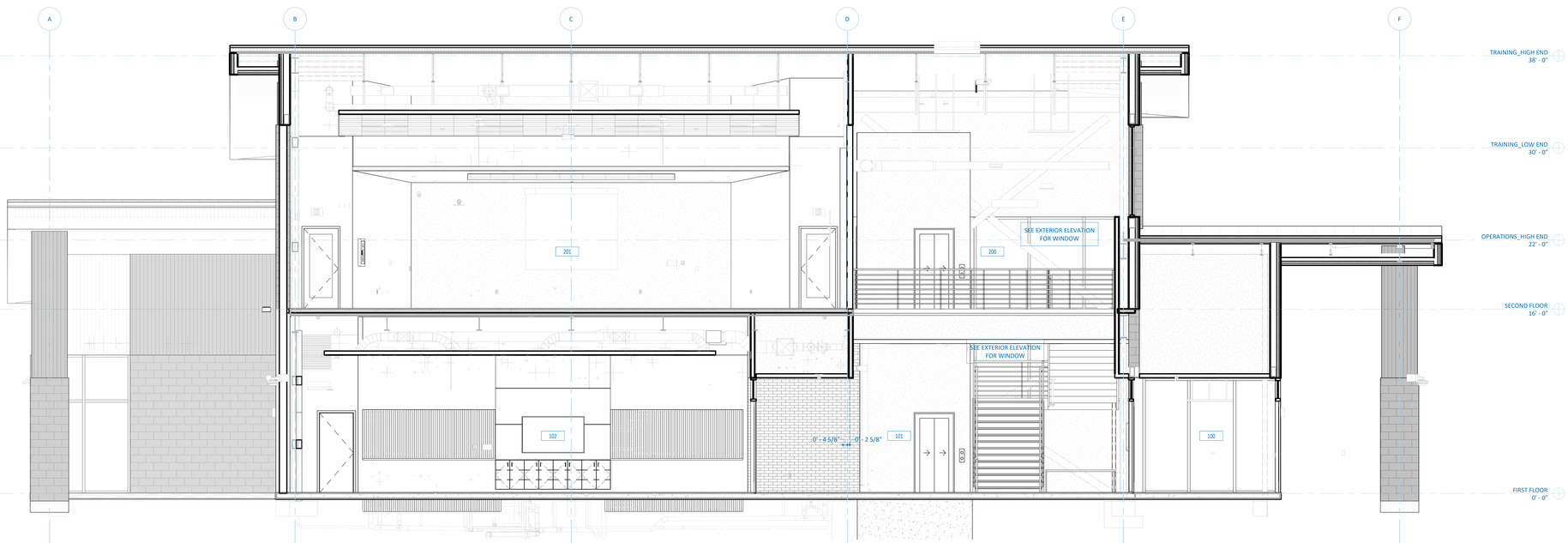
2 SECTION 4

1/4" = 1'-0"



4 SECTION 6

1/4" = 1'-0"



3 SECTION 5

1/4" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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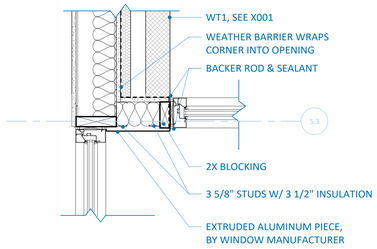
Discipline: Owner Consultant
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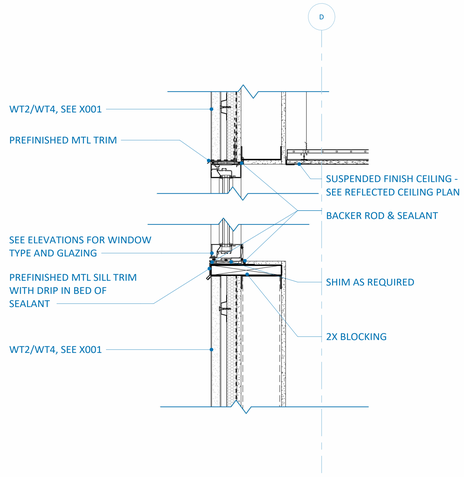
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BUILDING SECTIONS X401



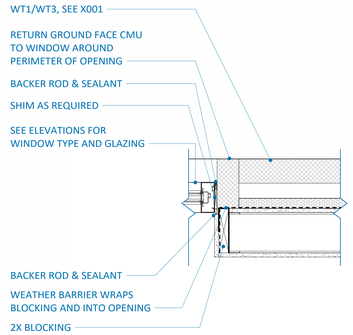
1 STOREFRONT CORNER DETAIL

1 1/2" = 1'-0"



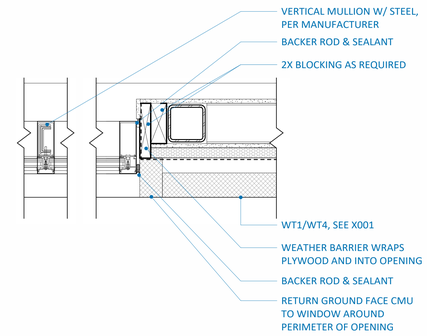
2 TYP. EXTERIOR WINDOW HEAD & SILL DETAIL

1 1/2" = 1'-0"



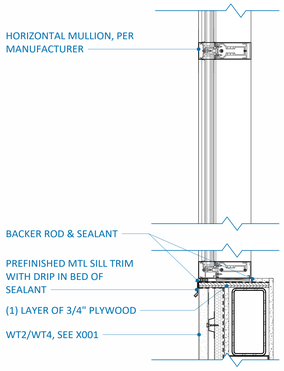
3 AL1 - TYP. WINDOW JAMB

1 1/2" = 1'-0"



4 CURTAIN WALL - TYP. WINDOW JAMB DETAIL

1 1/2" = 1'-0"



5 CURTAIN WALL - TYP. WINDOW HEAD & SILL DETAIL

1 1/2" = 1'-0"

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Discipline:
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P - 309.231.8272

OWNER ID:
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DETAILS **X800**

PROJECT PLAN NOTES

VALUE	DESCRIPTION

ABBREVIATIONS

GENERAL

A/C	Air Conditioning
A.F.F.	Above Finished Floor
APPROX.	Approximate
ARCH	Architectural
BLDG	Building
BM	Beam
BOT	Bottom
BSMT	Basement
CL	Centerline
CLG	Ceiling
CONC.	Concrete
CONST	Construction
CONTR	Contractor
CTR	Center
DET	Detail
DIM	Dimension
DN	Down
E	East
E.O.S.	Edge of Slab
EL	Elevation
ENCL	Enclosure
EXST	Existing
EXP	Expansion
FC	Fiber Cement
F.G.	Finish Grade
FIN	Finish
F.O.C.	Face of Concrete
F.O.F.	Face of Finish
F.O.M.	Face of Masonry
F.O.S.	Face of Stud
FR	Frame
FS	Full Size
FT	Foot or Feet
FUT	Future
GA	Gauge
GALV	Galvanized
GD	Grade
GND	Ground
G.B.	Gypsum Board
H.B.	Hose Bib
H.C.	Hollow Core
HCP	Handicapped
HORIZ	Horizontal
HR	Hour
HT	Height
H.W.	Hot Water
HVAC	Heating, Ventilation and Cooling
I.D.	Inside Diameter
INCL	Including
JNT	Joint
JST	Joist
L.H.	Left Hand
LT	Light
MATL	Material
MAX	Maximum
MECH	Mechanical
MET	Metal
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
N	North
N.I.C.	Not in Contract
NO	Number
NOM	Nominal
S	South
S.A.D.	See Architectural Drawings
S.S.	Stainless Steel
S.S.D.	See Structural Drawings
STD	Standard
STRUCT	Structural
SYM	Symmetrical
SUSP	Suspended
THK	Thick or Thickness
T.O.C.	Top of Curb
T.O.D.	Top of Drain
T.O.T.	Top of Truss
T.O.W.	Top of Wall
TYP	Typical
U.O.N.	Unless Otherwise Noted
UNF	Unfinished
VERT	Vertical
V.I.F.	Verify in Field
W	West
W/	With
W/O	Without

EXTERIOR WALLS

AB	Anchor Bolt
AVB	Air/Vapor Barrier
CI	Continuous Insulation
CMU	Concrete Masonry Unit
FDN	Foundation
FTG	Footing
MB	Metal Backup
SFRM	Spray-Applied Fire-Resistant Material
SHT	Sheathing
WRB	Weather-Resistant Barrier

CLADDING & FINISHES

ACC	Architectural Concrete Cladding
ACM	Aluminum Composite Material
A.F.F.	Above Finished Floor
AL PN	Aluminum Panel
ANOD	Anodized
ASPH	Asphalt
BRK	Brick
FCB	Fiber Cement Board
FCP	Fiber Cement Panel
EIFS	Exterior Insulation and Finish System
GRFC	Glass Fiber Reinforced Concrete
MCM	Metal Composite Material
PCP	Precast Concrete Panel
T&G	Tongue and Groove
TRM	Trim
VDL	Vertical Drip Leg
WD SLP	Wood Siding, Lap

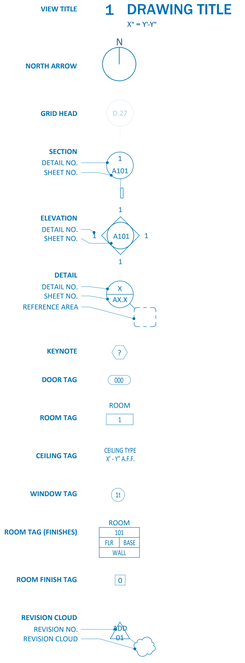
OPENINGS

ALUM	Aluminum
CLR	Clear (glass or opening)
FIX	Fixed (window)
GL	Glass or Glazing
IGU	Insulated Glass Unit
INSUL	Insulation
LVR	Louver
M.O.	Masonry Opening
OH	Overhead (door)
OPNG	Opening
R.O.	Rough Opening
SGU	Single Glass Unit
SL	Sill
WDW	Window

ROOF & DRAINAGE

B.U.R	Built Up Roofing
DS	Downspout
EPDM	Ethylene Propylene Diene Monomer
GUT	Gutter
INS	Insulation
MBR	Membrane
PAR	Parapet
RD	Roof Drain
RFG	Roofing
SCUP	Scupper
T.O.P.	Top of Parapet
TPO	Thermoplastic Polyolefin (membrane)

PLAN SYMBOLS



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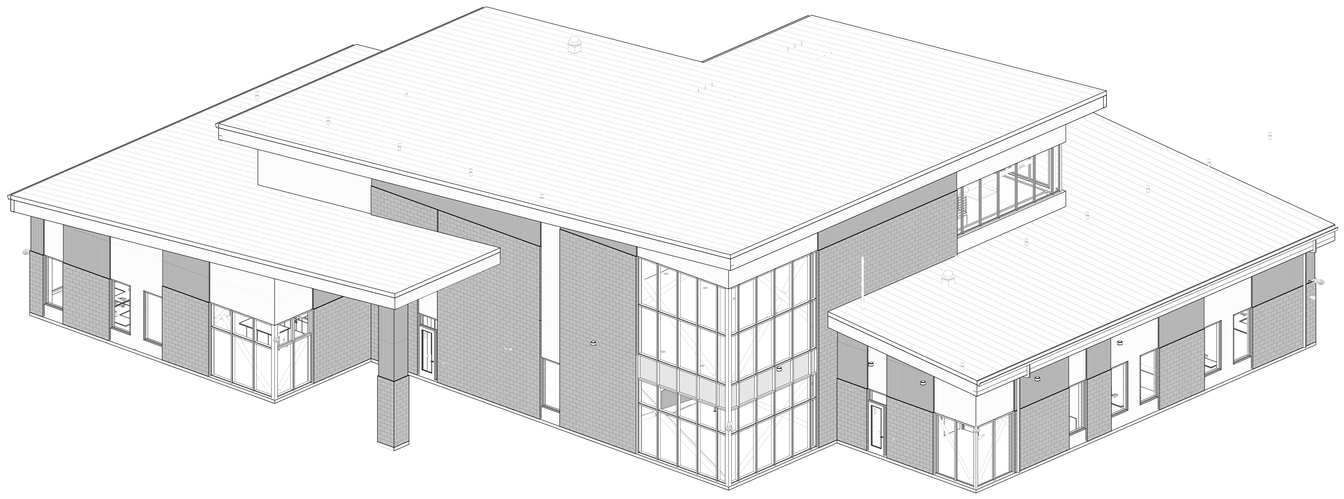
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ARCH ABBREVIATIONS AND SYMBOLS LEGEND **A000**



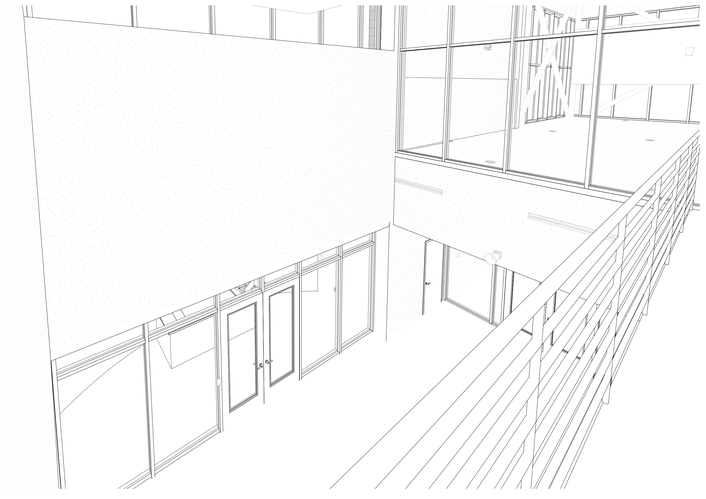
1 3D VIEW



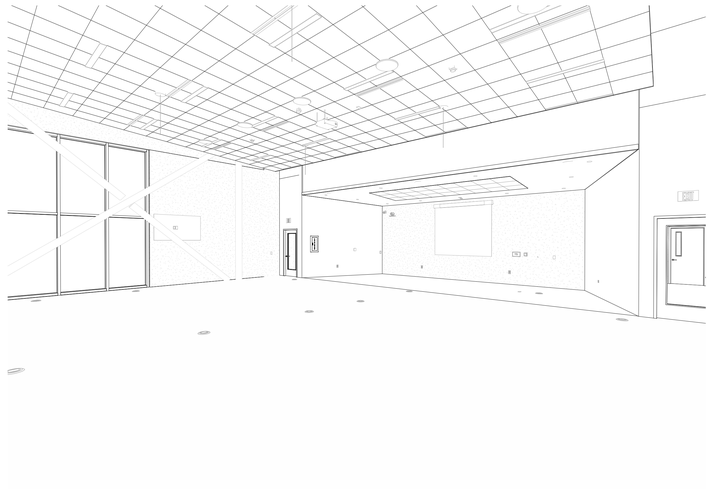
5 LOBBY VIEW FROM ENTRY



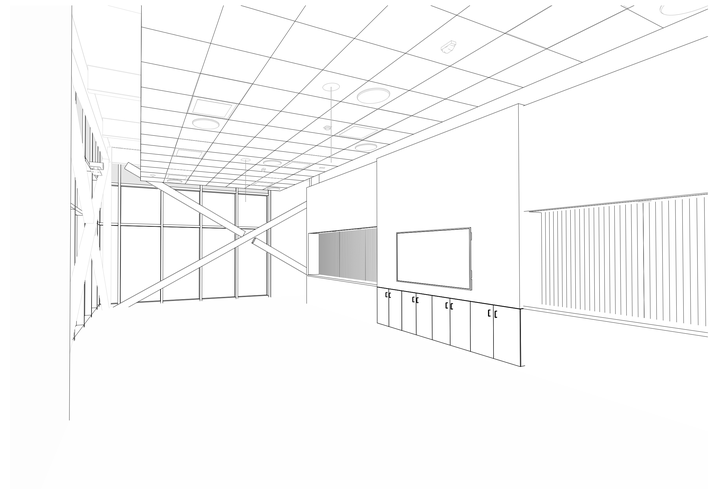
6 LOBBY VIEW FROM RECEPTION



2 SECOND FLOOR LOBBY LOOKING DOWN



3 MEETING ROOM



4 TRAINING ROOM

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3D VIEWS **A001**

WALL LEGEND

NEW CONSTRUCTION WALL AND PARTITION

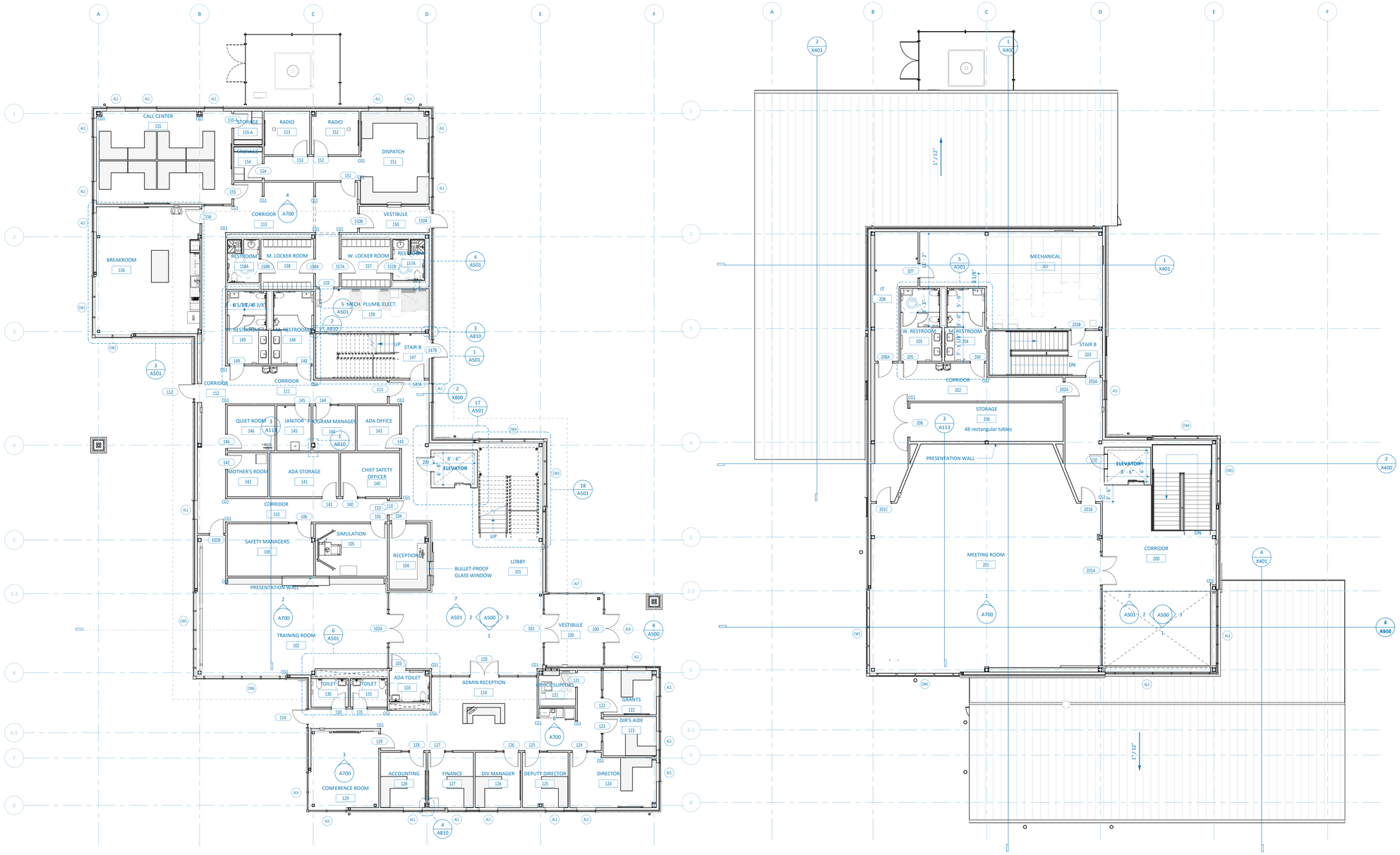
NEW CONSTRUCTION DOOR AND FRAME

GENERAL NOTES

1. SEE X300 AND X301 FOR EXTERIOR WINDOW ELEVATIONS
2. SEE A500 AND A700 FOR INTERIOR WINDOW ELEVATIONS

ACCESSIBILITY LEGEND

4.5" ROUND ADA PUSH PAD ON 42" HIGH BOLLARD BY PUSH PAD MANUFACTURER



1 FIRST FLOOR PLAN

1/8" = 1'-0"

2 SECOND FLOOR PLAN

1/8" = 1'-0"

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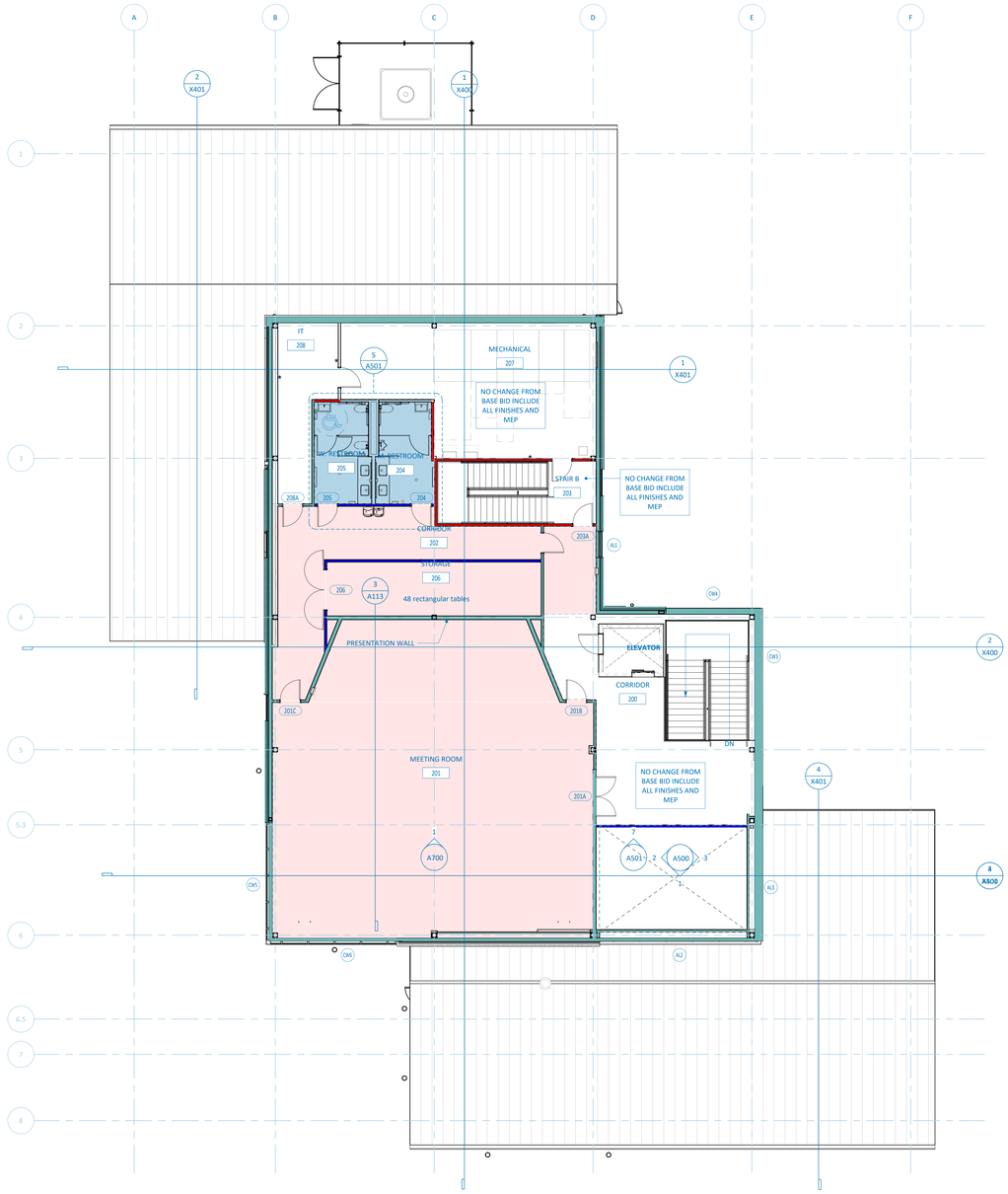
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FLOOR PLANS **A110**



2 SECOND FLOOR PLAN

1/8" = 1'-0"

IN DEDUCTIVE ALTERNATE

BUILD FIRE-RATED WALLS

BUILD STUDS W/ LEVEL 3 GYP, EXCEPT FOR THE FOLLOWING:

. LEVEL 4 AT ALL WALLS IN CORRIDOR 200

METAL STUDS, NO GYP.

STORAGE 206, CORRIDOR 202, MEETING ROOM 201

FLOOR: EXPOSED CONCRETE
CEILING: NO CEILING, NO PAINTED STRUCTURE
MECHANICAL: MAIN TRUNK DUCTS ONLY TO TEMPER THE SPACE
PLUMBING: NOT APPLICABLE
FIRE PROTECTION: PROVIDE
ELECTRICAL: MINIMUM LIGHTING FOR CODE COMPLIANCE, ONE CONVENIENCE OUTLET AT PRESENTATION WALL

M. RESTROOM 204 AND W. RESTROOM 205

CHASE WALL: DO NOT BUILD
FLOOR: EXPOSED CONCRETE
CEILING: NO CEILING
MECHANICAL: MAIN TRUNK DUCTS ONLY TO TEMPER THE SPACE
PLUMBING: ROUGH-IN MAINS
FIRE PROTECTION: PROVIDE
ELECTRICAL: MINIMUM LIGHTING FOR CODE COMPLIANCE, ONE CONVENIENCE OUTLET AT PRESENT WALL

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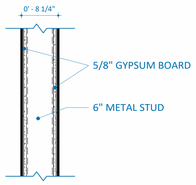
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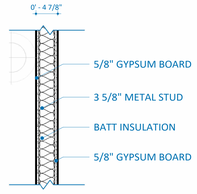
DEDUCTIVE ALTERNATE BID FLOOR PLAN A111

PARTITION TYPE SCHEDULE

MARK	INSULATION	SHEATHING LAYER SIZE	SHEATHING LAYER SIZE	CORE STUD SIZE	SHEATHING LAYER SIZE	SHEATHING LAYER SIZE	RATING TYPE	WALL TYPE NOTE	NOTES	MARK
--M112-X	-			M1 1/2"	5/8" GYP		-	#	COLUMN WRAP	--M112-X
--X	-				5/8" GYP		-	#	COLUMN WRAP	--X
X-M6-X	-		5/8"GYP	M6"	5/8"GYP		-	B		X-M6-X
X-M6-X	INS		5/8"GYP	M6"	5/8"GYP		-	B		X-M6-X
--M212-TB	-			M2 1/2"	5/8" GYP		-	B		--M212-TB
--M212-TB	-			M2 1/2"	5/8" GYP		-	B		--M212-TB
--M358-X				M3 5/8"	5/8" GYP		-	B		--M358-X
--M358-X	-			M3 5/8"	5/8" GYP		-	B		--M358-X
--M358-X	INS			M3 5/8"	5/8" GYP		-	B		--M358-X
--M358-X	-			M3 5/8"	5/8" GYP		-	1	NICHE; SEE INTERIOR ELEVATIONS	--M358-X
X-M358-X	-		5/8"GYP	M3 5/8"	5/8"GYP		-	B		X-M358-X
X-M358-X	INS		5/8"GYP	M 3 5/8"	5/8"GYP		-	B		X-M358-X
X-M358-X	-		5/8"GYP	M 3 5/8"	5/8"GYP		1 HR	#		X-M358-X
X-M358-X	-		5/8"GYP	M 3 5/8"	5/8"GYP		1 HR	B		X-M358-X
--TB	-				5/8"TB		-	B	COLUMN WRAP	--TB
--M212-TB	-			M2 1/2"	5/8"TB		-	B		--M212-TB
--M358-TB	-			M3 5/8"	5/8"TB		-	B		--M358-TB
TB-M358-X	-		5/8"TB	M3 5/8"	5/8" GYP		-	B		TB-M358-X
TB-M358-TB	-		5/8"TB	M3 5/8"	5/8"TB		-	B		TB-M358-TB
X-M6-TB	-		5/8"GYP	WD6"	5/8"GYP		-	B		X-M6-TB
-CMU8-X	-			CMU8"	5/8" GYP		1 HR	#	ELEVATOR	-CMU8-X
X-M358-XBRK	-		5/8"GYP	M3 5/8"	5/8" GYP	BRK	-	#	RECEPTION	X-M358-XBRK
X-M358-XBRK	INS		5/8"GYP	M3 5/8"	5/8" GYP	BRK	-	#	RECEPTION	X-M358-XBRK

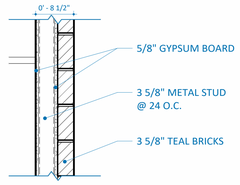


X-M6-X

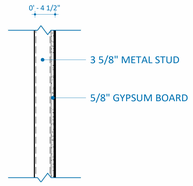


1 HR FIRE-RESISTANT RATING STC 50

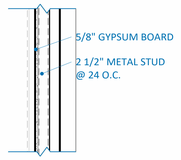
X-M358-X



X-M358-XBRK



M358-X



M212-X

DIMENSIONING NOTES

1 DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR FACE OF STUD TO COLUMN GRID LINE

2 IN ADDITION TO REQUIREMENTS NOTED FOR EXTERIOR WALLS ON THIS SHEET, REFER TO EXTERIOR WALL ASSEMBLIES X-SHEET FOR ADDITIONAL INFORMATION.

GENERAL SHEET NOTES

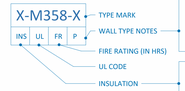
- AT TOILETS USE MOISTURE RESISTANT GYPSUM BOARD IN LIEU OF TYPE 'X' GYPSUM BOARD
- AT WALL TILE USE TILE BACKER IN LIEU OF TYPE 'X' GYPSUM BOARD
- TYP. COLUMN WRAP: WHERE GRAPHICALLY SHOWN INSTALL 5/8" TYPE 'X' GYPSUM BOARD ON METAL STUD FURRING AROUND COLUMNS. MINIMIZE DIMENSIONS.

PARTITION LEGEND

CMU

BRICK

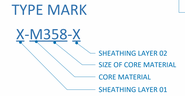
PARTITION TAG



P	PARTITION WITH CORE MATERIAL TO DECK ABOVE, SHEATHING TO 6" ABOVE CEILING
B	BARRIER WITH CORE MATERIAL AND SHEATHING TO DECK ABOVE
#	SEE NOTES COLUMN IN PARTITION TYPE SCHEDULE

-	NO INSULATION
INS	BATT INSULATION, FULL HEIGHT AND DEPTH OF CORE MATERIALS

TYPE MARK



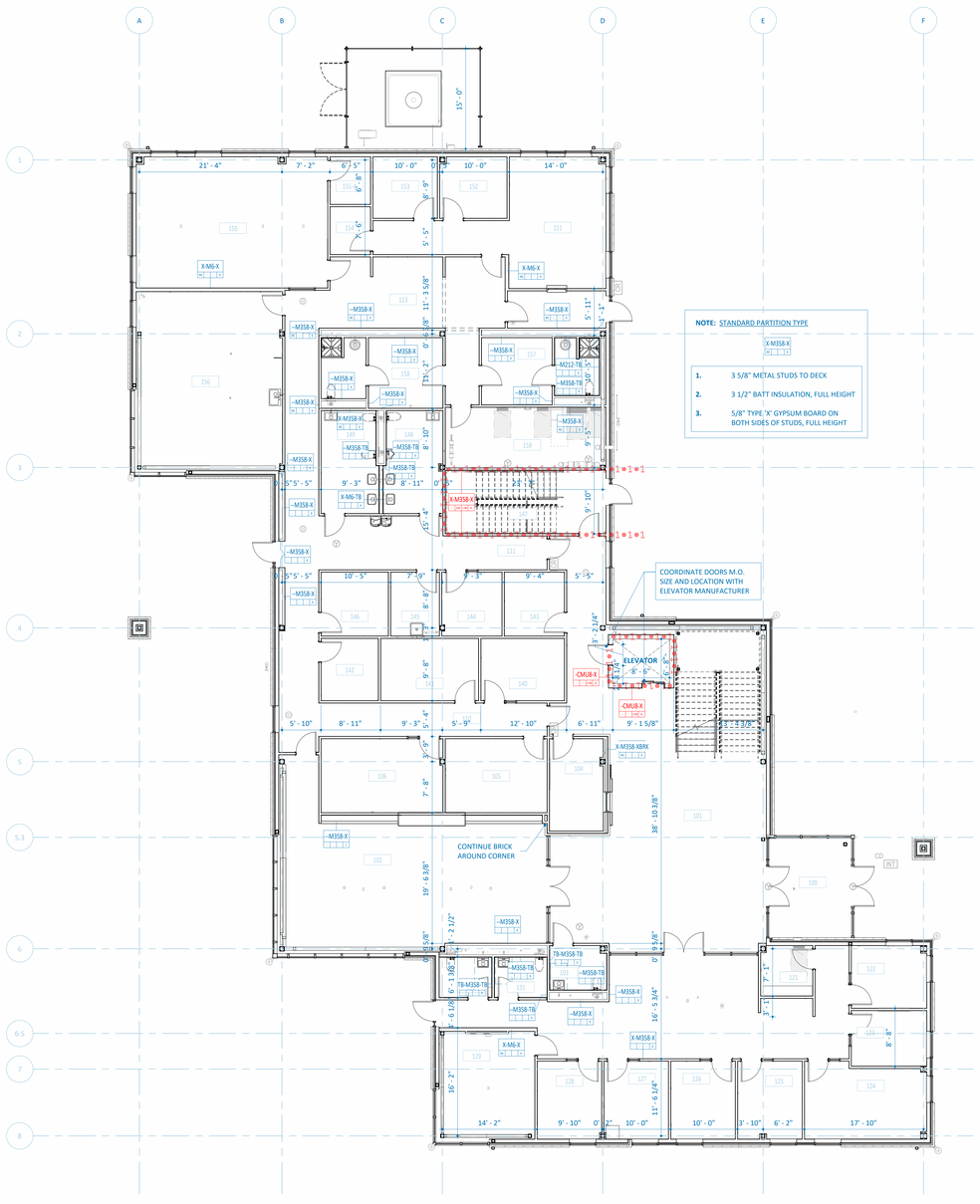
ABBREVIATIONS

CORE MATERIAL

BRK	BRICK
CMU	CONCRETE MASONRY UNIT
M	METAL STUD

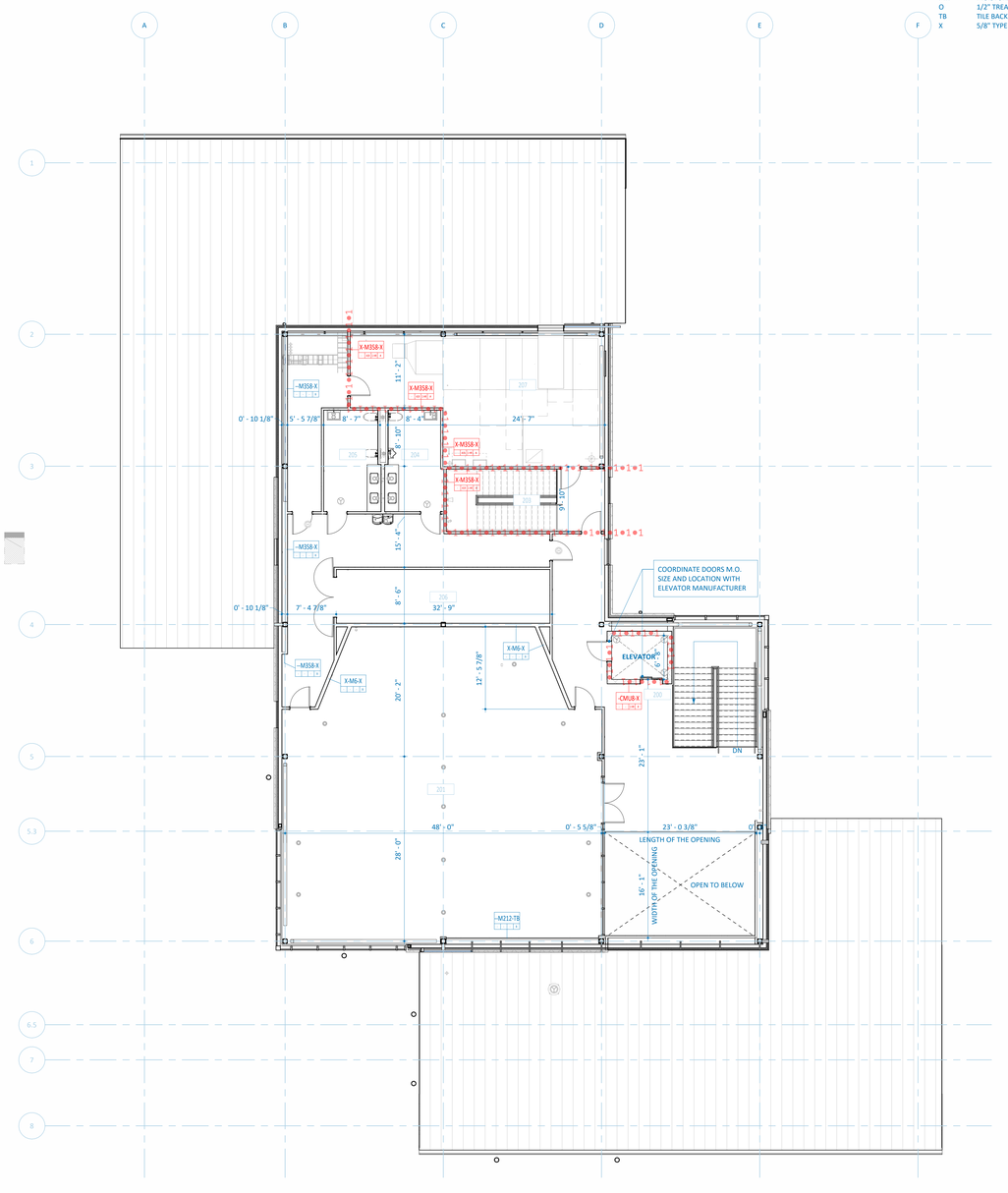
SHEATHING MATERIAL

-	NO MATERIAL
MR	MOISTURE RESISTANT GYP
O	1/2" TREATED ORIENTED-STRAND BOARD (OSB)
TB	TILE BACKER
X	5/8" TYPE X GYP BOARD



1 FIRST FLOOR DIMENSION AND PARTITION PLAN

1/8" = 1'-0"



2 SECOND FLOOR DIMENSION AND PARTITION PLAN

1/8" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

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800 SW ADAMS STREET, SUITE 101
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12001 N. CENTRAL EXPRESSWAY, STE 1170
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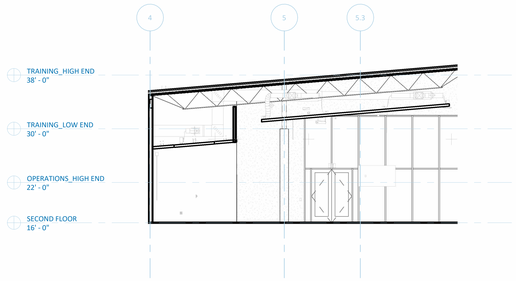
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P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO.	2613
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DIMENSION AND PARTITION TYPES **A112**



3 MEETING ROOM - CEILING

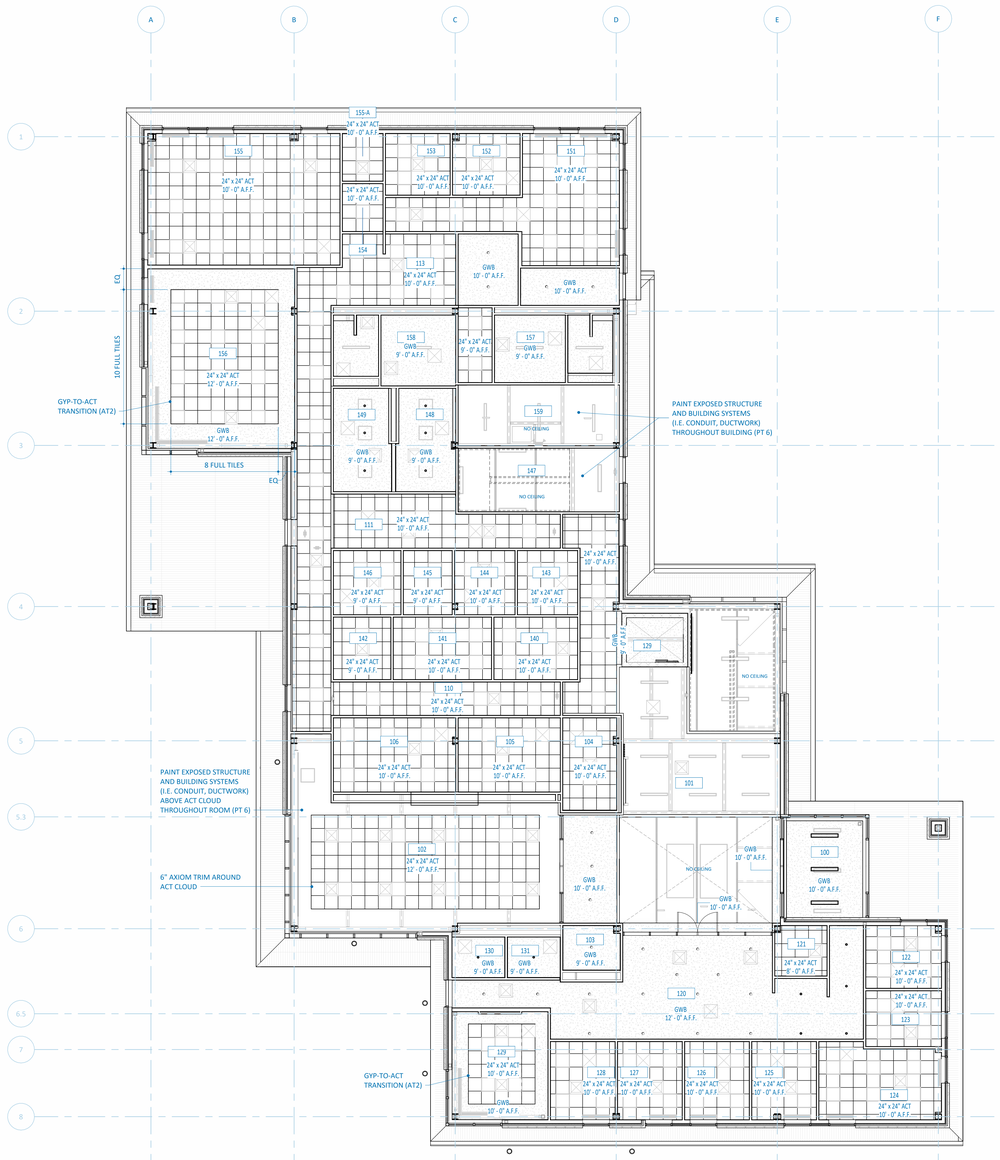
1/8" = 1'-0"

CEILING TYPES

- 2 X 2 SUSPENDED ACOUSTICAL TILE, SEE ROOM FINISH SCHEDULE A116
- 2 X 4 SUSPENDED ACOUSTICAL TILE, SEE ROOM FINISH SCHEDULE A116
- GYPSUM, SEE ROOM FINISH SCHEDULE A116

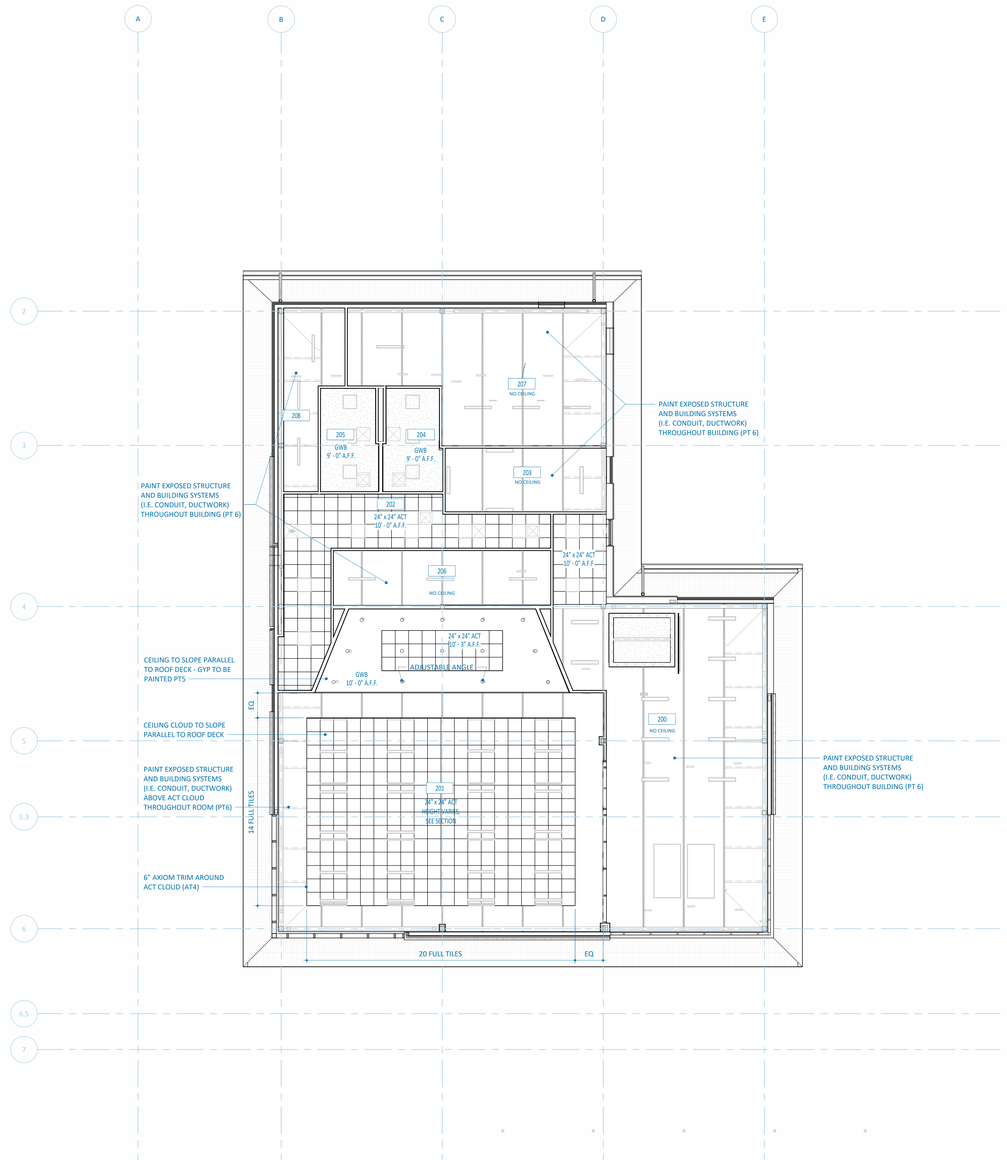
LIGHTING LEGEND

- 2'X2' LED FLAT PANEL
- 2'X2' LED FLAT PANEL W/ EMERGENCY BATTERY
- 2' X 2' CEILING DIFFUSER
- 2' X 2' CEILING EXHAUST
- 4" X 2' RECESSED LED LIGHT
- 4" X 2' LINEAR SLOT DIFFERING
- 6" X 2' HANGING LED LIGHT
- GLOWBALL SIGNATURE CLUSTERS RECTANGULAR BASE
- 4" DIAMETER OPEN DOWNLIGHT
- DUCT MOUNT GRILL
- CEILING MOUNTED EXIT SIGN



1 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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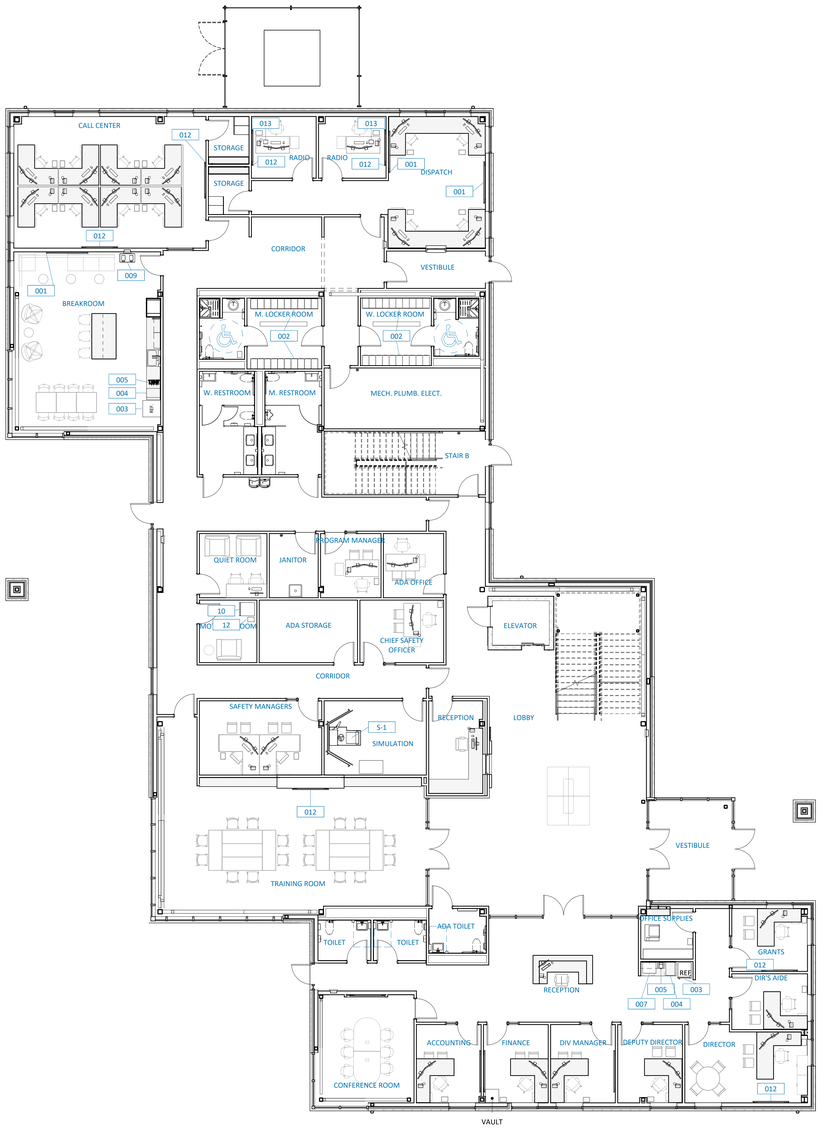
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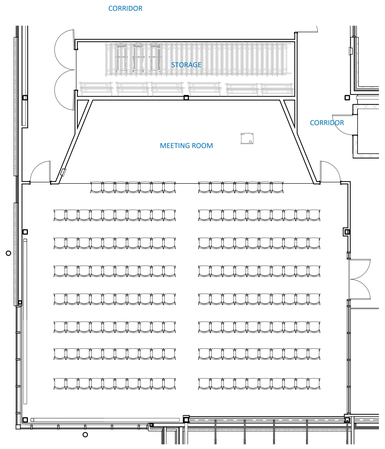
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REFLECTED CEILING PLAN **A113**



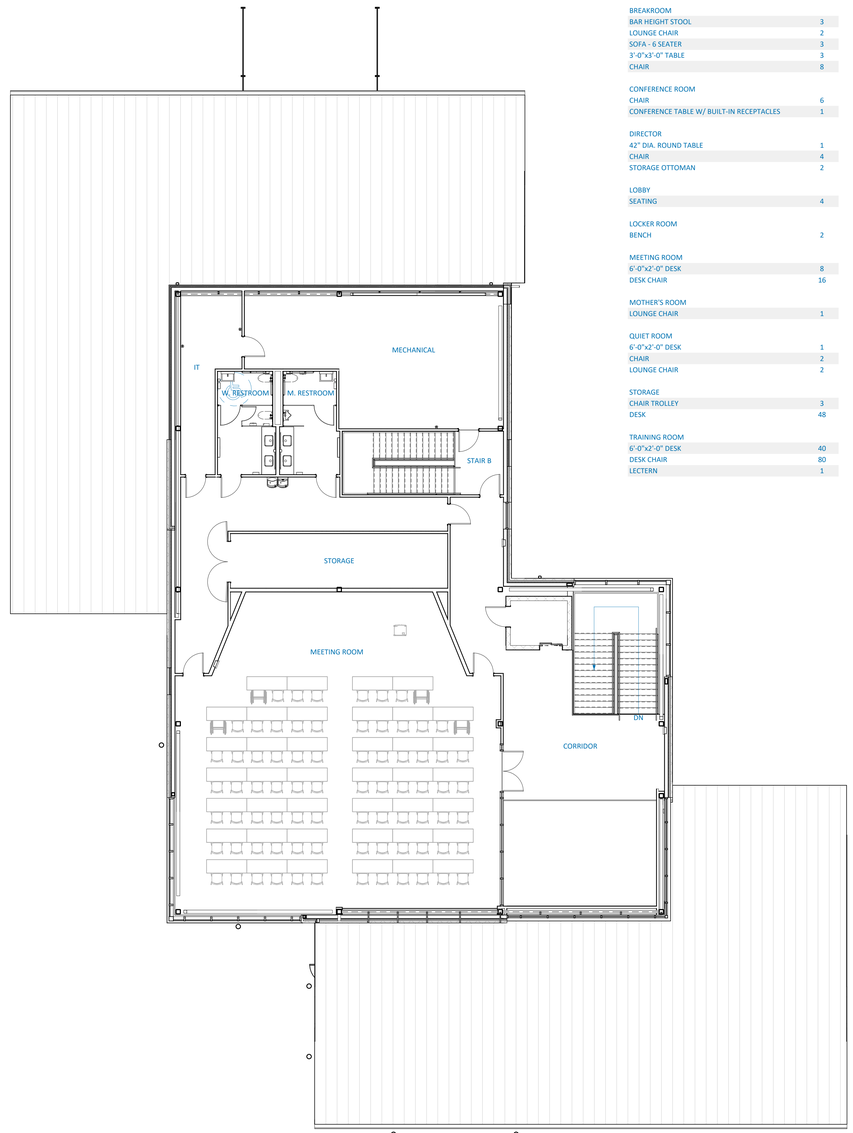
1 FIRST FLOOR FURNITURE AND EQUIPMENT PLAN

1/8" = 1'-0"



3 PARTIAL SECOND FLOOR FURNITURE PLAN

1/8" = 1'-0"



2 SECOND FLOOR FURNITURE AND EQUIPMENT PLAN

1/8" = 1'-0"

CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL-MOUNTED EQUIPMENT ITEMS

EQUIPMENT SCHEDULE

???

MARK	FURNISHED BY	INSTALLED BY	DESCRIPTION	COUNT
BREAK ROOM				
001	OWNER	CONTRACTOR	WALL-MOUNTED 75" MONITOR	1
003	OWNER	OWNER	REFRIGERATOR	1
004	OWNER	OWNER	ICE & WATER MACHINE	1
005	OWNER	OWNER	COFFEE MACHINE	1
007	OWNER	OWNER	MICROWAVE	3
009	OWNER	OWNER	TRASH RECEPTACLE	1
BREAK STATION				
003	OWNER	OWNER	REFRIGERATOR	1
004	OWNER	OWNER	ICE & WATER MACHINE	1
005	OWNER	OWNER	COFFEE MACHINE	1
007	OWNER	OWNER	MICROWAVE	1
CALL CENTER				
012	OWNER	CONTRACTOR	WALL-MOUNTED 65" MONITOR	2
DIRECTOR				
012	OWNER	CONTRACTOR	WALL-MOUNTED 65" MONITOR	1
DISPATCH			. RELOCATED; NEEDS BLOCKING AT WALL	
001	OWNER	CONTRACTOR	WALL-MOUNTED 75" MONITOR	1
GRANTS			RELOCATED; NEEDS BLOCKING AT WALL	
012	OWNER	CONTRACTOR	WALL-MOUNTED 65" MONITOR	1
LOCKER ROOM				
002	CONTRACTOR	CONTRACTOR	LOCKERS - TWENTY (20) HALF HEIGHT LOCKERS PER LOCKER ROOM (40 UNITS, 80 LOCKERS ALTOGETHER) 12"W x 18"D x 72"H	40
MEETING ROOM				
012	OWNER	CONTRACTOR	WALL-MOUNTED 65" MONITOR	1
MOTHER'S ROOM				
10	OWNER	OWNER	COMPACT REFRIGERATOR	1
RADIO				
012	OWNER	CONTRACTOR	WALL-MOUNTED 65" MONITOR	2
013	OWNER	OWNER	RELOCATE FROM EXISTING FACILITY - MOTOTRBO XPR 5550e DISPATCH/BASE RADIOS	2
SIMULATION				
S-1	OWNER	OWNER	VIRAGE SIMULATOR - V5700M BUS DRIVING SIMULATOR W/ OPERATION STATION & ELECTRONIC CABINET	1

FURNITURE SCHEDULE

NOT IN CONTRACT

DESCRIPTION	COUNT
BREAKROOM	
BAR HEIGHT STOOL	3
LOUNGE CHAIR	2
SOFA - 6 SEATER	3
3'-0"x3'-0" TABLE	3
CHAIR	8
CONFERENCE ROOM	
CHAIR	6
CONFERENCE TABLE W/ BUILT-IN RECEPTACLES	1
DIRECTOR	
42" DIA. ROUND TABLE	1
CHAIR	4
STORAGE OTTOMAN	2
LOBBY	
SEATING	4
LOCKER ROOM	
BENCH	2
MEETING ROOM	
6'-0"x2'-0" DESK	8
DESK CHAIR	16
MOTHER'S ROOM	
LOUNGE CHAIR	1
QUIET ROOM	
6'-0"x2'-0" DESK	1
CHAIR	2
LOUNGE CHAIR	2
STORAGE	
CHAIR TROLLEY	3
DESK	48
TRAINING ROOM	
6'-0"x2'-0" DESK	40
DESK CHAIR	80
LECTERN	1

TYPICAL WORKSTATION EQUIPMENT LIST:

PROVIDED BY & INSTALLED BY OWNER

- TWO (2) 27" MONITORS (INCLUDING 1 KEYBOARD & MOUSE FOR BOTH)
- ONE (1) TASK CHAIR
- ONE (1) DESK TELEPHONE
- ONE (1) PEDESTAL CABINET
- ONE (1) WASTE BASKET
- CUBICLE SETUP (FOR ROOMS WITH MORE THAN ONE WORKSTATION)

PROVIDED BY OWNER & INSTALLED BY CONTRACTOR

- 65" (012) OR 75" (001) WALL-MOUNTED TELEVISION - SEE EQUIPMENT SCHEDULE

ACCOUNTING : ONE (1) WORKSTATION
FINANCE : ONE (1) WORKSTATION
DIV MANAGER : ONE (1) WORKSTATION
DEPUTY DIRECTOR : ONE (1) WORKSTATION
DIRECTOR : ONE (1) WORKSTATION
DIR'S AIDE : ONE (1) WORKSTATION
GRANTS : ONE (1) WORKSTATION
SAFETY MANAGERS : TWO (2) WORKSTATIONS
CHIEF SAFETY OFFICER : ONE (1) WORKSTATION
PROGRAM MANAGER : ONE (1) WORKSTATION
ADA OFFICE : ONE (1) WORKSTATION
CALL CENTER : EIGHT (8) WORKSTATIONS
RADIO : ONE (1) WORKSTATION
RADIO : ONE (1) WORKSTATION
DISPATCH : FOUR (4) WORKSTATIONS

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FURNITURE AND EQUIPMENT PLAN **A114**

ABBREVIATIONS

-	NO MATERIAL
X	EXISTING
ACT ( )	ACOUSTICAL CEILING TILE (TYPE)
AT ( )	ACOUSTICAL TILE / BAFFLE (TYPE)
CB	INTEGRAL COVE BASE
CG ( )	CORNER GUARD (TYPE)
CONC	CONCRETE
CPT ( )	CARPET (TYPE)
ESC ( )	EPOXY SEALED CONCRETE (TYPE)
GB ( )	GLAZED BRICK (TYPE)
GYP BD	GYPSUM BOARD
HPF ( )	HIGH PERFORMANCE FLOORING
LVT ( )	LUXURY VINYL TILE (TYPE)
PL ( )	PLASTIC LAMINATE (TYPE)
PT ( )	PAINT (TYPE)
RB ( )	RESILIENT BASE (TYPE)
RS ( )	ROLLER SHADE (TYPE)
SSM ( )	SOLID SURFACE MATERIAL (TYPE)
STN ( )	STAIN (TYPE)
SVF ( )	SHEET VINYL FLOORING (TYPE)
TP ( )	TOILET PARTITION (TYPE)
VB ( )	VINYL BASE (TYPE)
WCPT ( )	WALKOFF CARPET (TYPE)
WP ( )	WALL PROTECTION (TYPE)
WT ( )	WALL TILE (TYPE)

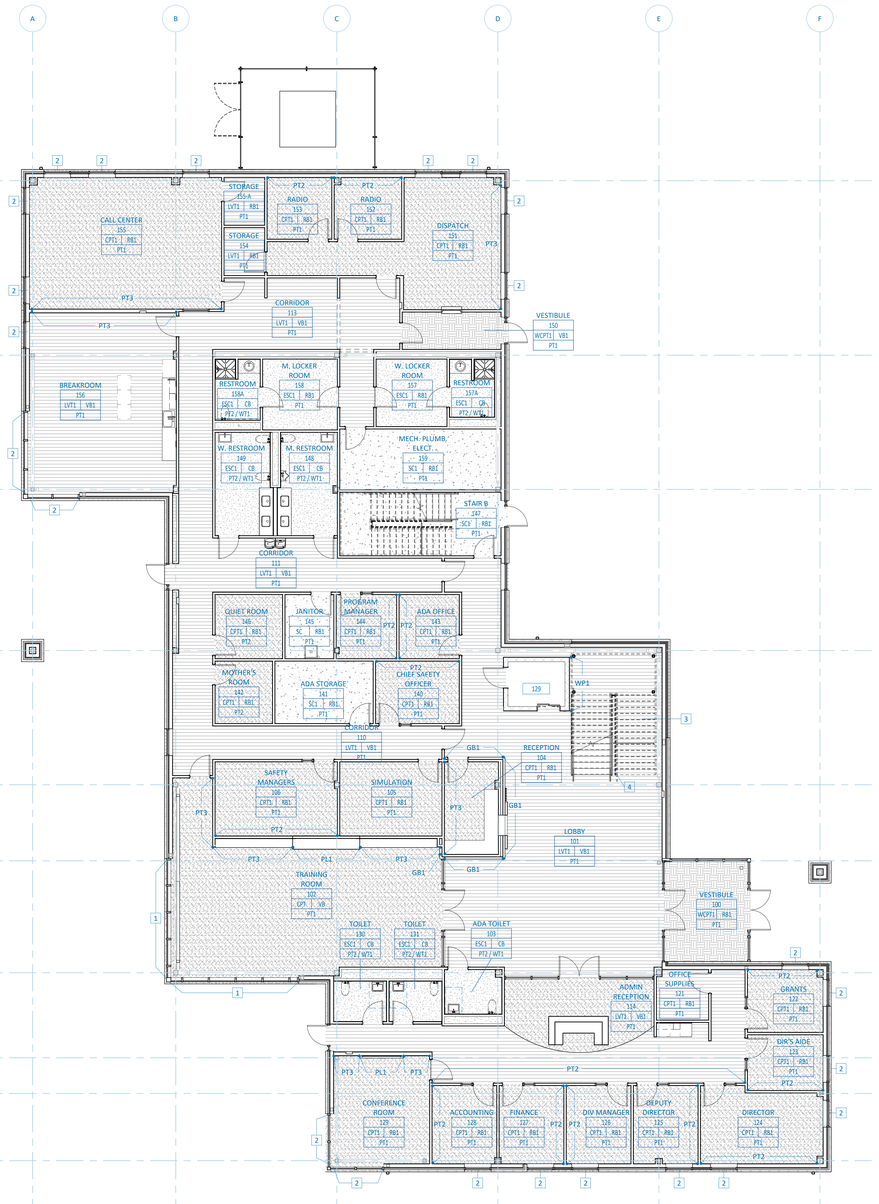
GENERAL FINISH NOTES

1. ALL CHANGE OF FLOOR MATERIALS SHALL OCCUR UNDER DOOR UNLESS OTHERWISE NOTED. ADD TRANSITION STRIP WHERE FLOORING HEIGHTS CHANGE.
2. SOFFITS TO BE PAINTED THE SAME COLOR AS ADJACENT WALLS UNLESS OTHERWISE NOTED
3. PAINT ALL NEW HM DOORS AND FRAMES PT4 UNLESS OTHERWISE NOTED
4. INTERIOR PAINTED SURFACES SHALL BE COMMERCIAL GRADE, HIGH-HIDE SCRUBBABLE, AND SATIN FINISH LATEX ACRYLIC WITH THREE FULL COATS, ONE PRIMER AND TWO FINISH COATS
5. ALL CASEWORK TO BE PL2 AND COUNTERTOPS TO BE SSM2 UNLESS NOTED OTHERWISE.
6. WALL CABINET DEPTH TO BE 12" AND BASE CABINET DEPTH TO BE 24" UNLESS NOTED OTHERWISE.
7. ALL CABINETS ARE TO HAVE TWO ADJUSTABLE SHELVES AND NO LOCKS.
8. ROOM TAG DESCRIPTION:



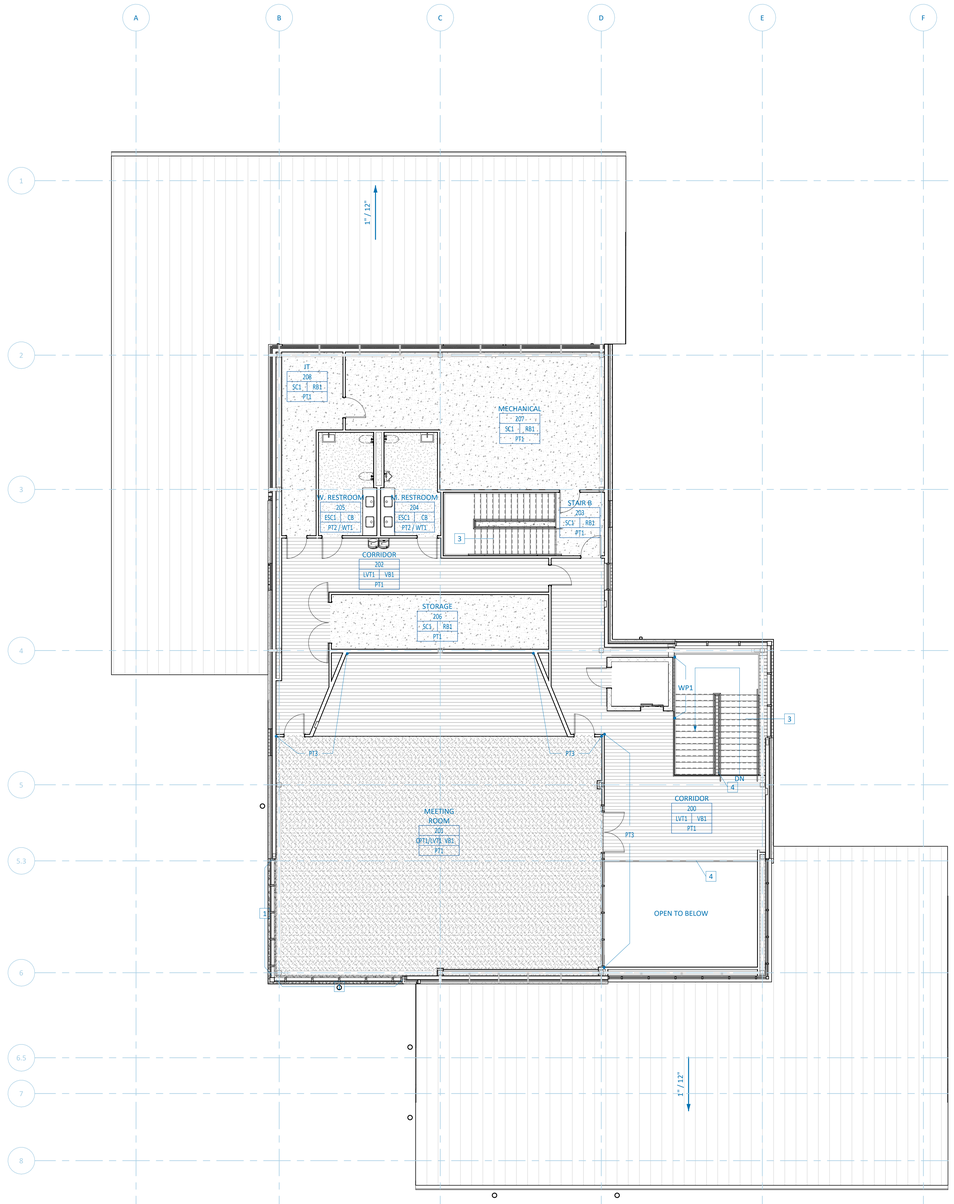
GENERAL FINISH KEYNOTES 0

1. INSTALL MOTORIZED ROLLER SHADES (RS2)
2. INSTALL MANUAL ROLLER SHADES (RS1)
3. STAIR TREADS TO BE LVT1. METAL RISERS TO BE PAINTED PT1. STRINGERS TO BE PAINTED PT4.
4. RAILINGS TO HAVE CLEAR ANODIZED FINISH. HANDRAIL TO BE WOOD WITH STAIN TO MATCH DS1.



1 FIRST FLOOR FINISHES PLAN

1/8" = 1'-0"



2 SECOND FLOOR FINISHES PLAN

1/8" = 1'-0"

COLOR

FLOORS

CPT1	INTERFACE - THIRD SPACE COLLECTION - THIRD SPACE 301 - COLOR: MIST - SIZE: 50 CM X 50 CM
ESC1	SHERWIN WILLIAMS - HYBRI-FLEX EQ Q28-36, ARMOR TOP GLOSS WITH GRIT BY DUR-A-FLEX.COM - COLOR: MARINA - WITH COVE BASE
LVT1	MANNINGTON - UNINTERRUPTED COLLECTION - UNINTERRUPTED WOOD - COLOR: EARTHY CHESTNUT UN206 - 7.25" X 48" - 4.0 MM
WCPT	MANNINGTON COMMERICAL - FRIXTION COLLECTION - CHARGE - COLOR: 11360 KINETIC - 18" X 36"
RB1	JOHNSONITE THERMOPLASTIC RUBBER WALL BASE 1/8" (TYPE TP) - DURACOVE 4" H - COLOR: CHARCOAL 20 (OFFICES)
VB1	ROPPE VINYL WALL BASE - 1/8" STANDARD TOE BASE (TYPE TV) - 4" H - COLOR: CHARCOAL 123 (COMMON AREAS/LOBBY)
SC1	SHERWIN WILLIAMS CLARISHIELD SOLVENT-BASED WET LOOK CLEAR SEALER

WALLS (SEE GENERAL FINISH NOTES FOR ADDITIONAL PAINT DETAILS)

EXP	EXPOSED, UNPAINTED CMU
PT1	SHERWIN WILLIAMS - SATIN FINISH - SNOWBOUND SW7004 (GENERAL)
PT2	SHERWIN WILLIAMS - SATIN FINISH - QUIETUDE SW6212 (ACCENT)
PT3	SHERWIN WILLIAMS - SATIN FINISH - SURF GREEN SW6473 (ACCENT)
PT4	SHERWIN WILLIAMS - SEMI-GLOSS FINISH - GRIZZLE GRAY SW7068 (HM DOORS & FRAMES)
PT5	SHERWIN WILLIAMS - FLAT FINISH - EXTRA WHITE SW7006 (GYP CEILINGS)
PT6	SHERWIN WILLIAMS - SATIN FINISH - AMAZING GRAY SW7044 (STRUCTURAL & EXPOSED CEILINGS)
DT1	MILESTONE TILE - NET-ZERO COLLECTION - COLOR: IVORY - SIZE: 12"X24" - BRICK INSTALLATION, CENTERED ON WALL - UP TO 5'-0" AFF - BRUSHED STAINLESS STEEL L-SHAPE TILE TRIM ALONG UNFINISHED EDGES
DT2	MSI - FLAMENCO - COLOR: CELTIC AQUA - SIZE: 3"X18" - BRICK INSTALLATION, CENTERED ON WALL - BRUSHED STAINLESS STEEL L-SHAPE TILE TRIM ALONG UNFINISHED EDGES
GT1	MAPEI GROUT - COLOR: WARM GRAY 5093 - 1/8" GROUT LINES
GT2	MAPEI GROUT - COLOR: CASTLE WALL 5227 - 1/8" GROUT LINES
GB1	GLEN-GERY - CUSTOM GLAZED FACEBRICK - SMOOTH TEXTURE/FINISH - SIZE: 7 5/8" x 4 3/8" x 2 1/4" - SINGLE FINISHED FACE & 90° "L" CORNERS (2 FINISHED SIDES) - COLOR: TO MATCH SHERWIN WILLIAMS SURF GREEN SW6473
WP1	INPRO ASPEX PRINTED WALL PROTECTION - CUSTOM GRAPHIC - TOTAL SIZE: 8'-0 1/2" x 24'-9" (TRIM TO FOLLOW STAIR STRINGER)
AP1	DESIGNTEX - WANNBE STRIPE - COLOR: JUNIPER
AS1	ARMSTRONG WOODWORKS GRILLE WALL SYSTEM - 12" X 96" PANELS, 1" WIDE, 2" BETWEEN, BACKER EDGE - COLOR: ENGLISH CHESTNUT
WS1	PURE + FREEFORM - FORGE WALL SYSTEM - FORMED CORNERS - COLOR: GRUNGE GOLD - SEE A500 FOR DETAILS

PLASTIC LAMINATE

PL1	WILSONART - HARMONIA 8297-38
PL2	WILSONART - TRACELESS - SLATE VELVET 15507

SOLID SURFACE

SSM1	CORIAN - CARBON CONCRETE
SSM2	CORIAN - NEUTRAL CONCRETE
SSM3	INPRO INTEGRAL SINK BOWL - NEAT 859P, GLACIER WHITE

CEILINGS

AT1	USG 560 FISSURED BASIC ACOUSTICAL PANELS - SQUARE - 24"X24" - DONN BRAND DX/DXL 15/16" ACOUSTICAL SUSPENSION SYSTEM
AT2	USG DONN BRAND TRANSITION MOLDING (FOR DRYWALL-TO-ACT TRANSITIONS)
AT3	USG DRYWALL SUSPENSION SYSTEM SC2238 - FLAT CEILINGS
AT4	ARMSTRONG AXIOM TRIM 6" - COLOR: WHITE

CORNER GUARDS

CG1	INPRO SURFACE MOUNTED STAINLESS STEEL - UP TO 4' - 0"

MISC

DS1	VT INDUSTRIES - WHITE BIRCH - COLOR: UMBER UM24
RS1	HARDWARE: CLUTCH-OPERATED FLEXSHADE NEXO W/ HEADBOX, SILVER SHADE: DRAPER SHEERWEAVE SW2400 (Z410) 3%, PEARL GRAY
RS2	HARDWARE: FLEXSHADE 2 MOTORIZED, SILVER SHADE: DRAPER SHEERWEAVE SW2400 (Z410) 3%, PEARL GRAY

TOILET PARTITIONS & SHOWER SYSTEMS

TP1	ASI GLOBAL PARTITIONS - COLOR-THRU PHENOLIC TOILET PARTITIONS - STAINLESS STEEL VAULT HINGE - CEILING HUNG - STANDARD PRIVACY - COLOR: CHARCOAL 3072
SW1	MPL COMPANY - CULTURED MARBLE SHOWER WALL PANELS - 96" H x WIDTH SHOWN IN DRAWINGS - 6" x 12" STAGGERED TILE EFFECT SMOOTH - COLOR: BRIGHT WHITE, MATTE - ACCESSORIES: 7" x 7" SHAMPOO SHELF, 96" x 2" x 3/4" TRIM STRIPS (TOP & SIDES)
SB1	MPL COMPANY - CULTURED MARBLE TRANSFER SHOWER PAN - SIZE: 36" x 36" - COLOR: BRIGHT WHITE

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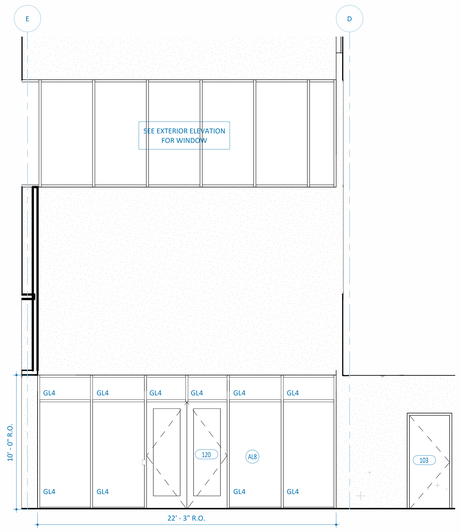
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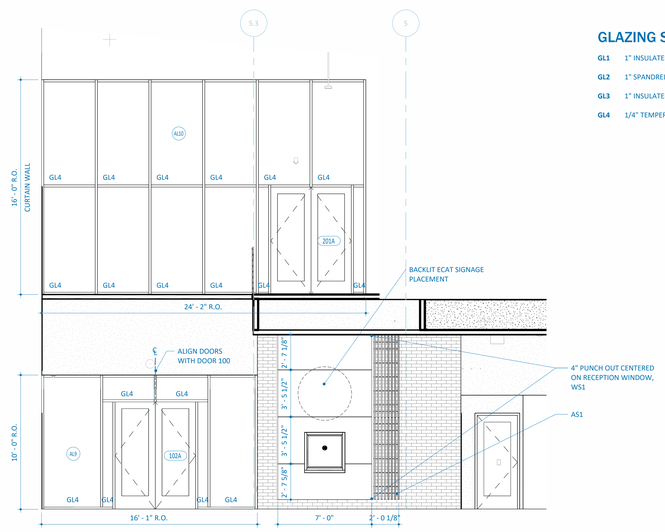
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FINISH PLAN **A115**



1 LOBBY SOUTH ELEVATION

1/4" = 1'-0"



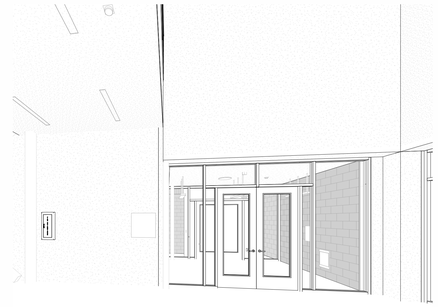
2 LOBBY WEST ELEVATION

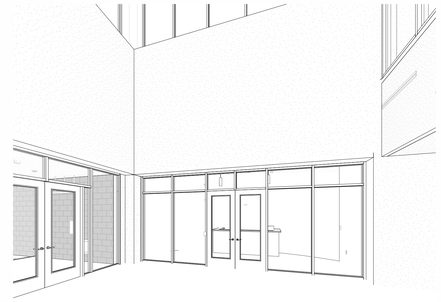
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GLAZING SCHEDULE

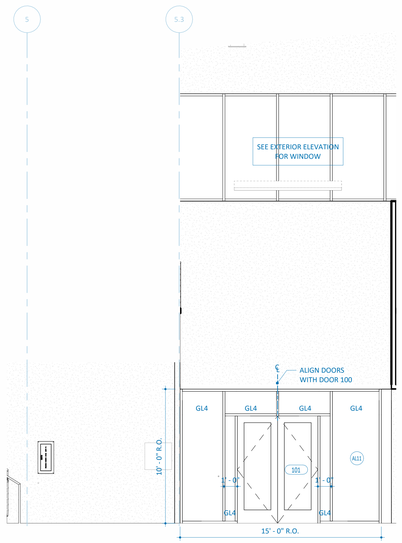
GL1	1" INSULATED GLAZING UNIT
GL2	1" SPANDREL INSULATED GLAZING UNIT
GL3	1" INSULATED GLAZING UNIT (HARDENED AREA)
GL4	1/4" TEMPERED







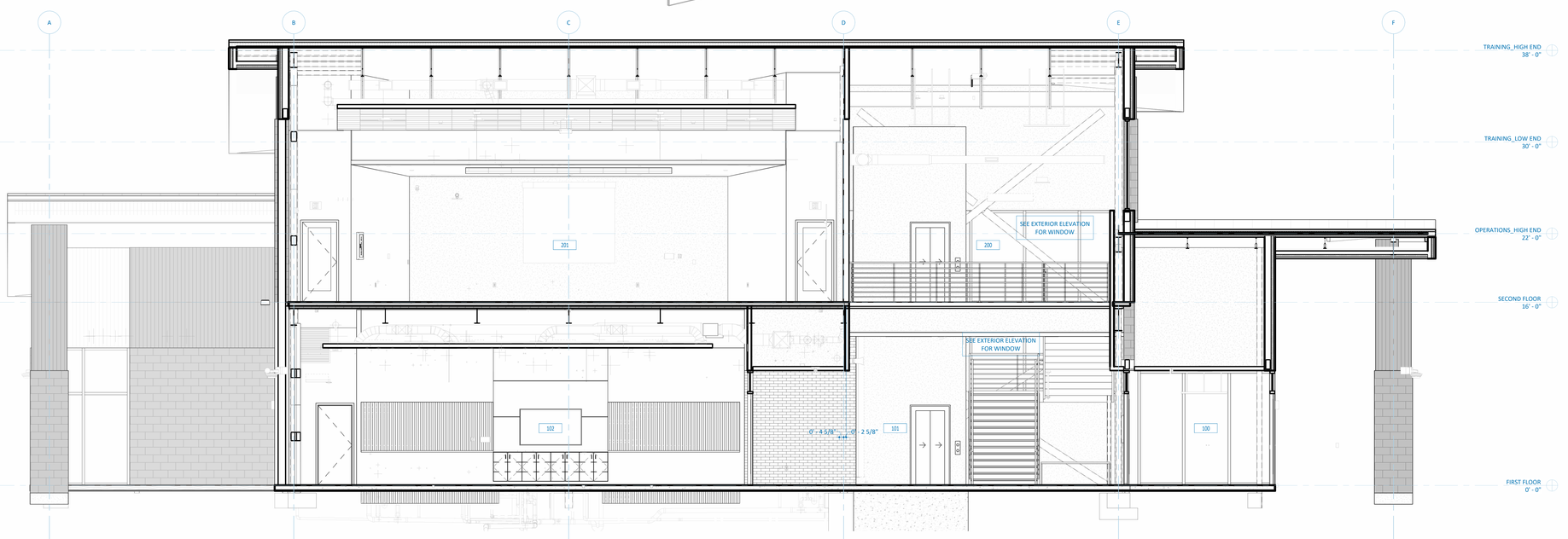




3 LOBBY EAST ELEVATION

1/4" = 1'-0"





4 BUILDING SECTION/INTERIOR ELEVATION - WEST PATIO, TRAINING ROOM, LOBBY, EAST ENTRANCE, AND SECOND FLOOR MEETING ROOM

1/4" = 1'-0"

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Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N. CENTRAL EXPRESSWAY, STE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL, EXPY #300
DALLAS, TX 75243
P - 214.739.8100

Discipline:
KEDbluestone
707 NE JEFFERSON AVE,
PEORIA, IL 61602
P - 515.259.5957

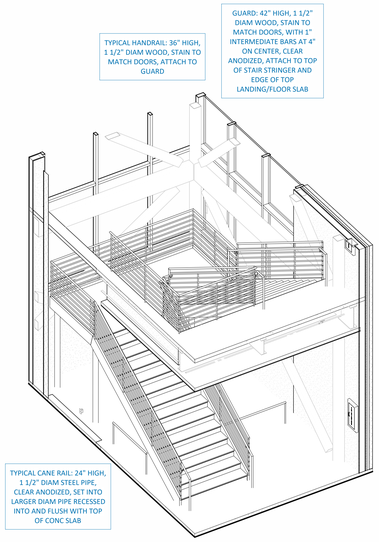
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

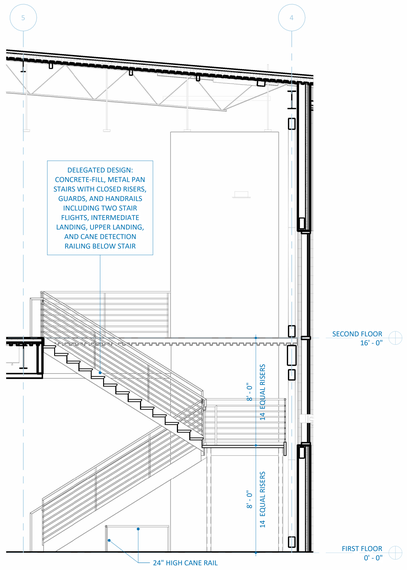
Revisions

PROJECT NO. 2613
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LOBBY 101 **A500**

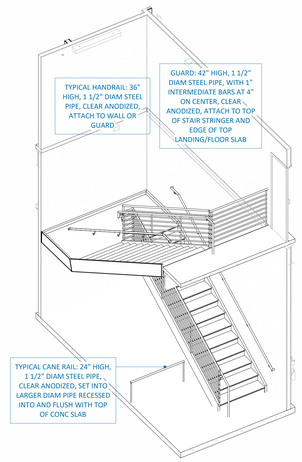


22 STAIR A - 3D

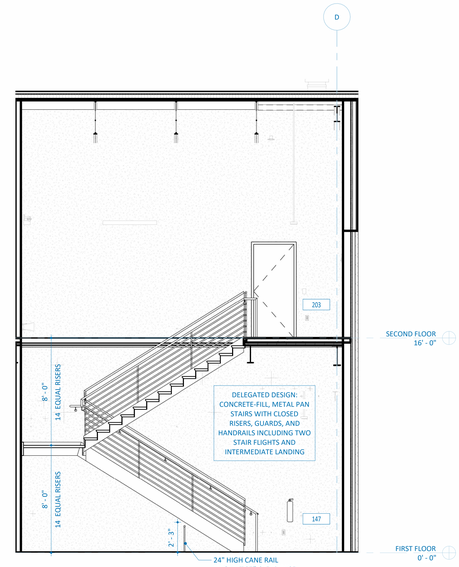


20 STAIR A - SECTION

1/4" = 1'-0"

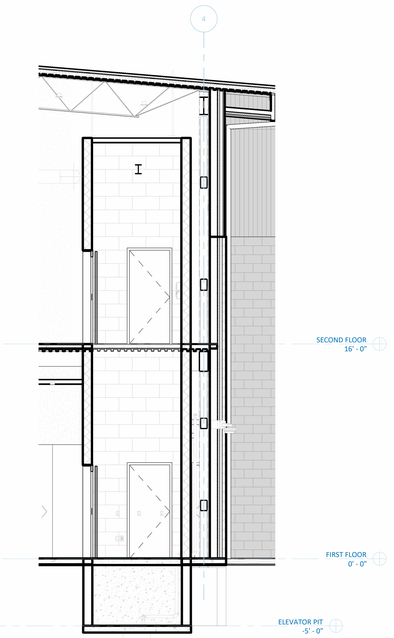


24 STAIR B - 3D



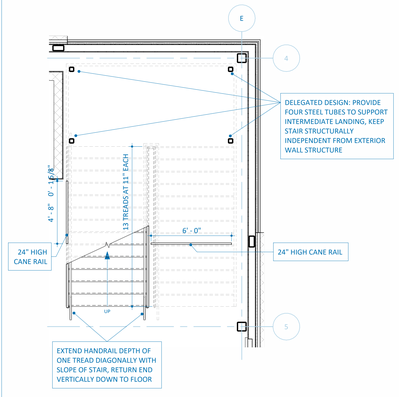
2 STAIR B - SECTION

1/4" = 1'-0"



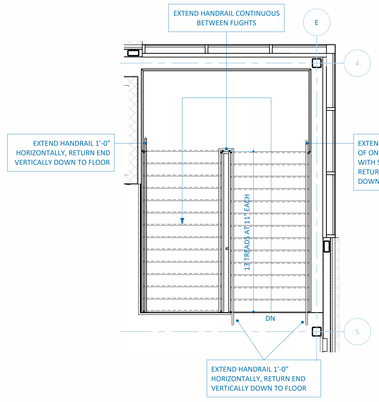
19 ELEVATOR - SECTION

1/4" = 1'-0"



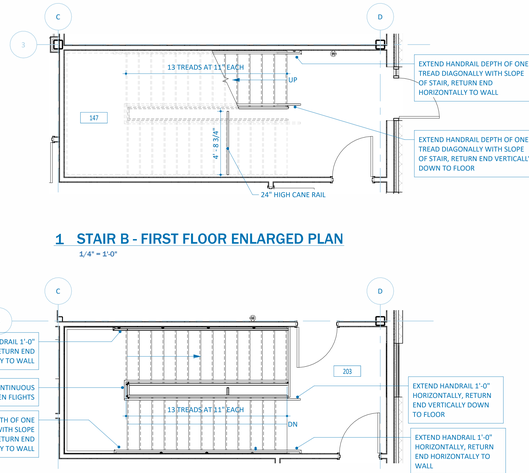
18 STAIR A - FIRST FLOOR ENLARGED PLAN

1/4" = 1'-0"



23 STAIR A - SECOND FLOOR ENLARGED PLAN

1/4" = 1'-0"

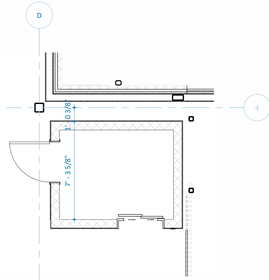


1 STAIR B - FIRST FLOOR ENLARGED PLAN

1/4" = 1'-0"

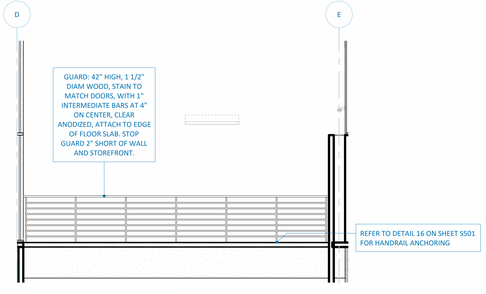
21 STAIR B - SECOND FLOOR ENLARGED PLAN

1/4" = 1'-0"



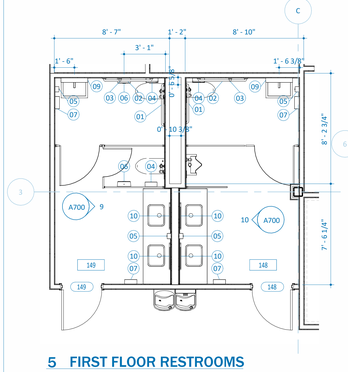
17 ELEVATOR SHAFT

1/4" = 1'-0"



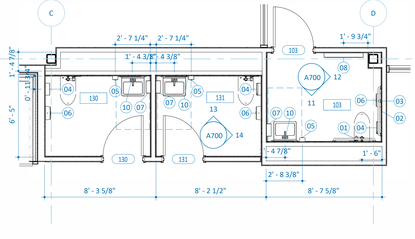
7 LOBBY GUARD RAIL

1/4" = 1'-0"



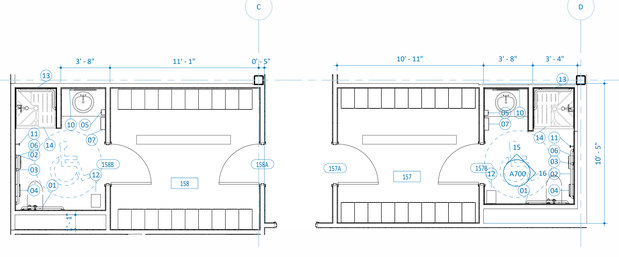
5 FIRST FLOOR RESTROOMS

1/4" = 1'-0"



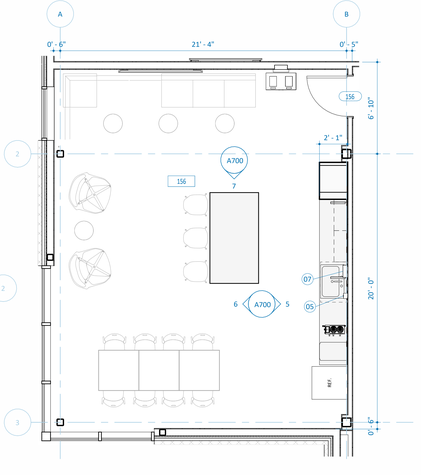
6 SOUTH TOILETS

1/4" = 1'-0"



4 ENLARGED LOCKER ROOM AND ADA SHOWER

1/4" = 1'-0"



3 BREAK ROOM - ENLARGED

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION
01	36" GRAB BAR
02	42" GRAB BAR
03	18" VERTICAL GRAB BAR
04	TOILET PAPER DISPENSER
05	SOAP DISPENSER
06	SANITARY DISPOSAL UNIT
07	PAPER TOWEL DISPENSER
08	CHANGING STATION
09	MIRROR 24" X 36"
10	MIRROR 36" X 48"
11	ROBE HOOK
12	WASTEBASKET
012	The ViewSonic CDE31 Series is a turnkey, commercial-grade digital display that delivers impactful communication across corporate, retail, education, and healthcare environments.
13	ADA GRAB BAR
013	
14	ADA SHOWER SEAT

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
PENSACOLA, FLORIDA, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
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DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
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STAIRS A/B AND LARGE SCALE PLANS **A501**

SYMBOLS LEGEND

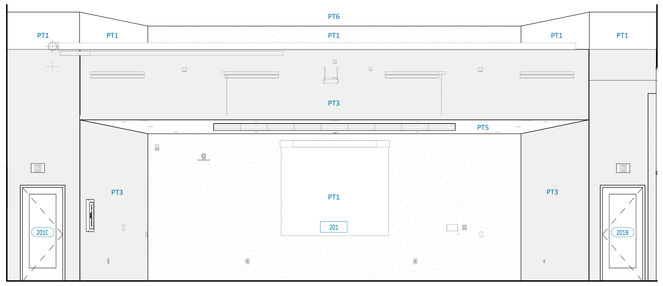
- 2 — DUPLEX RECEPTACLE
- 4 — QUAD RECEPTACLE
- LS — LIGHT SWITCH
- O — OXYGEN OUTLET
- V — VACUUM OUTLET
- A — MED AIR OUTLET
- N — NITROUS OXIDE OUTLET
- BS — BOTTLE SLIDE
- TELEPHONE / DATA OUTLET
- W — WALL TELEPHONE OUTLET
- NC — NURSE CALL

CASEWORK LEGEND

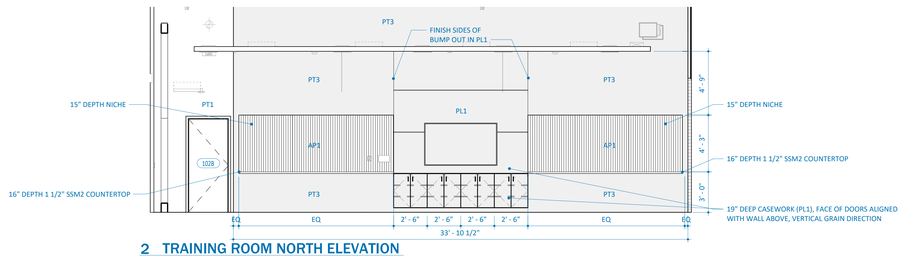
B	BASE
DB	DRAWER BASE
TB	TRASH BASE
SB	SINK BASE
TM	TALL MICROWAVE
F	FILLER STRIP

GENERAL NOTES

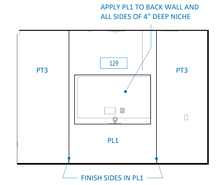
1. SEE FLOOR PLAN FOR CORNERGUARD LOCATIONS



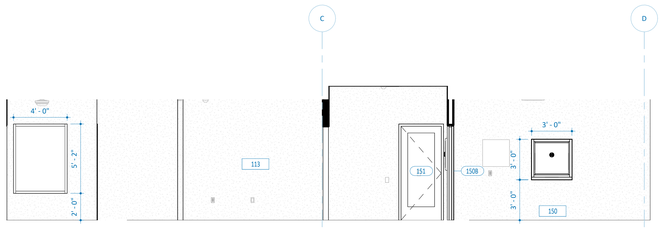
1 MEETING ROOM NORTH ELEVATION
1/4" = 1'-0"



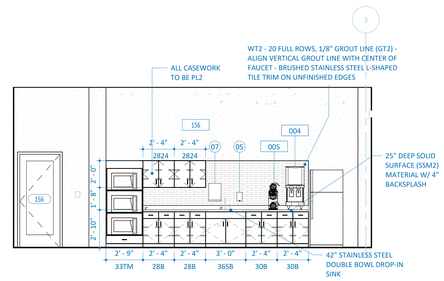
2 TRAINING ROOM NORTH ELEVATION
1/4" = 1'-0"



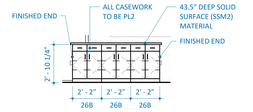
3 CONF. ROOM NORTH ELEVATION
1/4" = 1'-0"



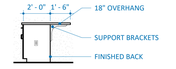
4 CORRIDOR 132 ELEVATION
1/4" = 1'-0"



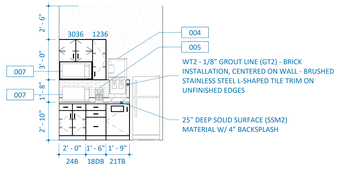
5 BREAK ROOM - ELEVATION
1/4" = 1'-0"



6 BREAK ROOM ISLAND - ELEVATION
1/4" = 1'-0"



7 BREAK ROOM ISLAND - ELEVATION 2
1/4" = 1'-0"

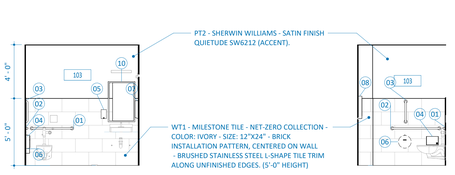


8 ADMIN SUITE KITCHENETTE
1/4" = 1'-0"



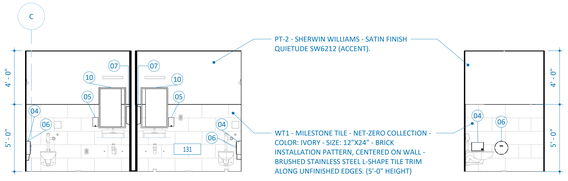
9 W. RESTROOM
1/4" = 1'-0"

10 M. RESTROOM
1/4" = 1'-0"



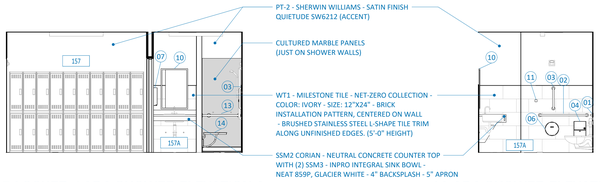
11 ADA TOILET S. ELEVATION
1/4" = 1'-0"

12 ADA TOILET E. ELEVATION
1/4" = 1'-0"



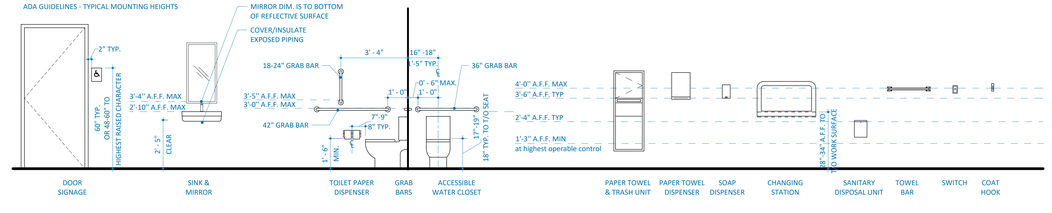
13 TOILET N. ELEVATION
1/4" = 1'-0"

14 TOILET E. ELEVATION
1/4" = 1'-0"



15 LOCKER / ADA SHOWER ELEVATION A
1/4" = 1'-0"

16 ADA SHOWER ELEVATION B
1/4" = 1'-0"



17 TYPICAL ADA DETAILS & EQUIPMENT MOUNTING HEIGHTS
3/8" = 1'-0"

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
01 - ADMIN BUILDING
50 CLARINDA LN
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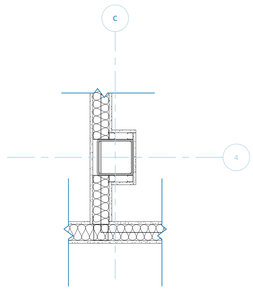
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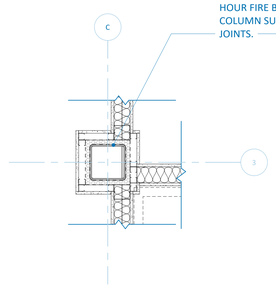
Revisions

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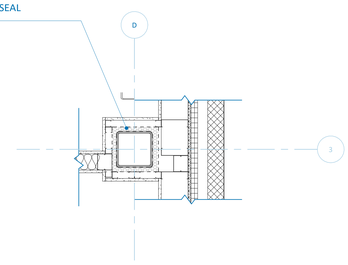
1 FRAMING DETAIL 1

1" = 1'-0"



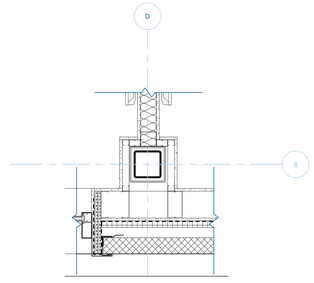
2 FRAMING DETAIL 2

1" = 1'-0"



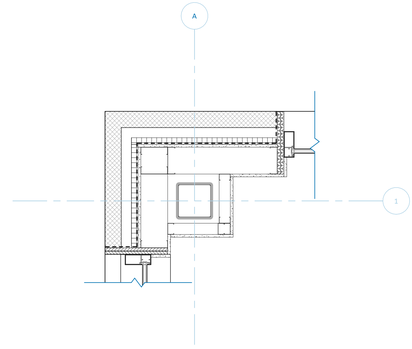
3 FRAMING DETAIL 3

1" = 1'-0"



4 FRAMING DETAIL 4

1" = 1'-0"



5 FRAMING DETAIL 5

1" = 1'-0"

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DETAILS **A810**

EXTERIOR DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATL	GLAZING	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME TYPE	FRAME MATL	FIRE RATING	NOTES	MARK
100	6' - 0"	8' - 0"	0' - 1 3/4"	FG	AL	GL1				SEE BUILDING ELEVATIONS	AL	-	CR;AI;CONTROLLED LOCK – CONTROL FROM REMOTE DOOR RELEASE BUTTON ON SOUTH WALL OF RECEPTION 104;PAIR OF 3'-0" DOORS	100
112	3' - 0"	8' - 0"	0' - 1 3/4"	FG	AL	GL3				SEE BUILDING ELEVATIONS	AL		CR	112
114	3' - 0"	8' - 0"	0' - 1 3/4"	FG	AL	GL1				SEE BUILDING ELEVATIONS	AL	-	CR	114
147B	3' - 0"	8' - 0"	0' - 1 3/4"	FG	AL	GL1				SEE BUILDING ELEVATIONS	AL	-		147B
150A	3' - 0"	8' - 0"	0' - 1 3/4"	FG	AL	GL3				SEE BUILDING ELEVATIONS	AL			150A

INTERIOR DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATL	GLAZING	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME TYPE	FRAME MATL	FIRE RATING	NOTES	MARK
101	6' - 0"	8' - 0"	0' - 1 3/4"	FG	WD	GL4				SEE LOBBY INTERIOR ELEVATIONS	AL	-	CONTROLLED LOCK – CONTROL FROM REMOTE DOOR RELEASE BUTTON ON SOUTH WALL OF RECEPTION 104;PAIR OF 3'-0" DOORS	101
102A	6' - 0"	8' - 0"	0' - 1 3/4"	FG	WD	GL4				SEE LOBBY INTERIOR ELEVATIONS	AL		PAIR OF 3'-0" DOORS	102A
102B	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		102B
103	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	OVERHEAD STOP. PRIVACY LOCK W/ OCCUPANCY INDICATOR	103
104	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		104
105	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	STOREROOM LOCK	105
106	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	106
110	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-	CR	110
111	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-	CR	111
120	6' - 0"	8' - 0"	0' - 1 3/4"	FG	WD	GL4				SEE LOBBY INTERIOR ELEVATIONS	AL		CR;CONTROLLED LOCK – CONTROL FROM REMOTE DOOR RELEASE BUTTON ON SOUTH WALL OF RECEPTION 116 AND FROM REMOTE DOOR RELEASE BUTTON AT RECEPTION 104;PAIR OF 3'-0" DOORS	120
121	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	CLASSROOM LOCK	121
122	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	122
123	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	123
124	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	124
125	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	125
126	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	126
127	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	127
128	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	128
129	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-	OFFICE LOCK	129
130	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	PRIVACY LOCK	130
131	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	PRIVACY LOCK	131
140	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-	OFFICE LOCK	140
141	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		141
142	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	OCCUPANCY INDICATOR	142
143	3' - 0"	7' - 0"	0' - 1 3/4"	N	HM	GL4				FT1	HM	-	OFFICE LOCK	143
144	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	GL4				FT3	HM	-		144
145	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	STOREROOM LOCK	145
146	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	OCCUPANCY INDICATOR	146
147A	3' - 0"	7' - 0"	0' - 1 3/4"	N	HM	GL4				FT1	HM	1.0HR	CR	147A
148	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		148
149	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		149
150B	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-	CR;M	150B
151	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-	CR	151
152	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		152
153	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		153
154	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-		154
155	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-		155
155-A	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	OFFICE LOCK	155-A
156	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-		156
157A	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	1.0HR		157A
157B	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		157B
158A	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	1.0HR		158A
158B	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		158B
159	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-	CR	159
201A	6' - 0"	8' - 0"	0' - 1 3/4"	FG	WD	GL4				SEE LOBBY INTERIOR ELEVATIONS	AL	-		201A
201B	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-		201B
201C	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-		201C
202A	3' - 0"	7' - 0"	0' - 1 3/4"	FG	WD	GL4				FT1	HM	-		202A
203A	3' - 0"	7' - 0"	0' - 1 3/4"	N	HM	GL4				FT1	HM	1.0HR		203A
203B	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	1.0HR		203B
204	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		204
205	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		205
206	6' - 0"	7' - 0"	0' - 1 3/4"	F	WD	-				FT1	HM	-	PAIR OF 3'-0" DOORS; 180-DEGREE HINGES	206
207	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	1.0HR		207
208A	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT1	HM	-		208A
209	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT2	HM	1.0HR		209
210	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM	-				FT2	HM	1.0HR		210

ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
F	FLUSH
N	NARROW LITE
HG	HALF GLASS
FG	FULL GLASS
PT	PAINT

GLAZING SCHEDULE

GL1 1" INSULATED GLAZING UNIT

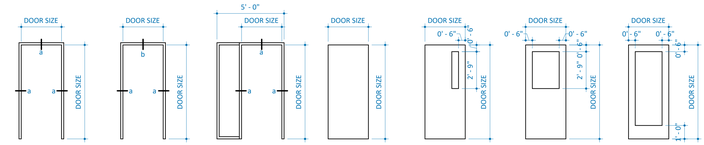
GL2 1" SPANDREL INSULATED GLAZING UNIT

GL3 1" INSULATED GLAZING UNIT (HARDENED AREA)

GL4 1/4" TEMPERED

GENERAL DOOR SCHEDULE NOTES

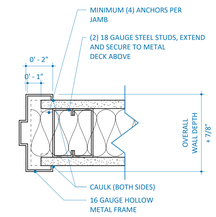
1. STAIN WOOD DOORS - REFER TO FINISH PLAN SHEET



DOOR FRAME & TYPE LEGEND



HOLLOW METAL FRAME SECTION



1 DETAIL - JAMB @ FT1

3" = 1'-0"

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

EXTERIOR AND INTERIOR DOOR SCHEDULE AND ELEVATIONS **A900**

ABBREVIATIONS

▲T	TEMPREATURE DIFFERENCE	LB	POUND
Ø	ROUND	LB/HR	POUNDS PER HOUR
ABV	ABOVE	LD	LINEAR DIFFUSER
AC	AIR CONDITIONING	LP	LOW PRESSURE
AD	AREA DRAIN	LP	LIQUEFIED PETROLEUM GAS
ADD	ADDENDUM	LVR	LOUVER
A/E	ARCHITECT / ENGINEER	LWT	LEAVING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	MA	MIXED AIR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MAX	MAXIMUM
ALT	ALTERNATE	MBH	ONE THOUSAND BTU PER HOUR
AP	ACCESS PANEL	M.C.	MECHANICAL CONTRACTOR
ARCH	ARCHITECT/ARCHITECTURAL	MD	MOTORIZED DAMPER
BAS	BUILDING AUTOMATION SYSTEM	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS	MP	MEDIUM PRESSURE
BTUH	BRITISH THERMAL UNITS PER HOUR	MTR	MOTOR
CAP	CAPACITY	MUA	MAKE-UP/AIR
CB	CATCH BASIN	NC	NOISE CRITERIA
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CFH	CUBIC FEET PER HOUR	NG	NATURAL GAS
CLG	CEILING	NO	NUMBER
C.M.	CONSTRUCTION MANAGER	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CV	CONTROL VALVE	O	OXYGEN
CW	COLD WATER	OA	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROLS	PIV	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DEIONIZED WATER	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
E.C.	ELECTRICAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
EA	EXHAUST AIR	RD	ROOF DRAIN
EG	EXHAUST GRILLE	REC	RECESSED
EXIST	EXISTING	RED	REDUCER
F	DEGREES FAHRENHEIT	RG	RETURN GRILLE
FCO	FLOOR CLEAN OUT	RH	RELATIVE HUMIDITY
FD	FLOOR DRAIN	RLA	RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	SA	SUPPLY AIR
FOV	FUEL OIL VENT	SAN	SANITARY
FOR	FUEL OIL RETURN	SD	SMOKE DAMPER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPC	FIRE PROTECTION CONTRACTOR	SG	SUPPLY GRILLE
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FS	FLOOR SINK	SP	STATIC PRESSURE
FT	FOOT/FEET	SR	SUPPLY REGISTER
FTR	FIN TUBE RADIATION	STM	STEAM
GAL	GALLON	T	THERMOSTAT
GF	GAS-FIRED	T.C.	TEMP CONTROLS CONTRACTOR
G.C.	GENERAL CONTRACTOR	TD	TEMPERATURE DROP
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GW	GREASE WASTE	TEMP	TEMPERATURE
HB	HOSE BIBB	TYP	TYPICAL
HP	HORSE POWER	UG	UNDERGROUND
HP	HIGH PRESSURE	VAC	VACUUM
HTG	HEATING	V	VENT
HTR	HEATER	VAV	VARIABLE AIR VOLUME
HW	HOT WATER	VENT	VENTILATION
HYD	HYDRANT	VTR	VENT THROUGH ROOF
ID	INDIRECT DRAIN	W	WASTE
IN	INCH	WB	WET BULB
I.E.	INVERT ELEVATION	WCO	WALL CLEAN OUT
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR	WH	WALL HYDRANT
LAT	LEAVING AIR TEMPERATURE	YCO	YARD CLEANOUT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ERV	ENERGY RECOVERY VENTILATOR
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
BCU	BLOWER COIL UNIT	GRV	GRAVITY ROOF VENTILATOR
CH	CHILLER	HP	HEAT PUMP
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	P	PUMP
CP	CONDENSER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RF	RETURN FAN
DC	DUCT MOUNTED COIL	RHC	REHEAT COIL
CP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
ET	EXPANSION TANK	WH	WATER HEATER

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL SUBSEQUENT SHEETS IN SHEET LIST. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- KEYNOTE SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room Name / Number — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT
- MARK — SCHEDULED EQUIPMENT (UNDERLINED)
- MARK — NONSCHEDULED EQUIPMENT
- (E) MARK — EXISTING EQUIPMENT - HALFTONE - (E) PREFIX
- (R) MARK — EXISTING RELOCATED EQUIPMENT - (R) PREFIX

FIRE PROTECTION SYMBOLS

- FP — FIRE PROTECTION
- DRY — FIRE PROTECTION DRY
- PA — FIRE PROTECTION PRE-ACTION
- UPRIGHT SPRINKLER
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- CONCEALED HEAD
- SIDEWALL SPRINKLER
- EXTENDED COVERAGE SPRINKLER
- OS&Y VALVE
- POST INDICATOR VALVE
- VALVE TAMPER DETECTION SWITCH
- FREESTANDING SIAMESE F.D. CONNECTION
- SIAMESE F.D. CONNECTION
- FIRE PUMP TEST HEADER
- SINGLE FIRE DPT. CONNECTION

GENERAL NOTES - FIRE PROTECTION

1. ALL FIRE PROTECTION WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION:
   - NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
   - NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
   - NFPA 70 - NATIONAL ELECTRICAL CODE
   - 2023 FLORIDA BUILDING CODE, EIGHTH EDITION
   - 2023 FLORIDA FIRE PREVENTION CODE, EIGHTH EDITION
   - LOCAL CODES, INCLUDING ALL AMENDMENTS AND ORDINANCES
2. COORDINATE INSTALLATION OF FIRE PROTECTION WORK WITH GENERAL CONTRACTOR/ CONSTRUCTION MANAGER AND ALL OTHER TRADES TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS. FIRE PROTECTION CONTRACTOR SHOULD PROVIDE RECORD DRAWING COMMENTARY REFLECTING ACTUAL INSTALLATION. PROVIDE ONE HARD-COPY SET TO A/E.
3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THIS WORK.
4. REFERENCE ARCHITECTURAL DRAWINGS FOR CODE-RATED WALLS, FLOORS, AND CEILINGS. PROVIDE UL RATED, FM APPROVED FIRE STOP AT ALL NEW FIRE PROTECTION PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS.
5. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND OTHER CEILING MOUNTED ITEMS.
6. PROVIDE AND INSTALL AUXILIARY DRAINS AT ALL PIPING LOW POINTS. AUXILIARY DRAINS SHALL TERMINATE WITH A HOSE THREAD CONNECTION AND HAVE A PERMANENT LABEL ATTACHED.
7. DO NOT ROUTE PIPING DIRECTLY ABOVE OR BELOW ELECTRICAL PANELS, INCLUDING PANEL SERVICE CLEARANCES.
8. DO NOT SUSPEND PIPING FROM OTHER PIPING, DUCTWORK OR CONDUIT, ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE USING THE APPROPRIATE ATTACHMENTS.
9. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, TESTING AND CERTIFICATION OF REDUCED PRESSURE BACKFLOW DEVICE. POST CERTIFICATION ON BACKFLOW DEVICE ONCE TESTING HAS BEEN COMPLETED.
10. FIRE PROTECTION CONTRACTOR SHOULD REVIEW ANTICIPATED MAN/MATERIAL LIFT EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO UTILIZING FOR INSTALLATION. DAMAGED FLOORING RESULTING FROM UNAPPROVED EQUIPMENT WILL BE REPLACED AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
11. REFER TO WRITTEN SPECIFICATIONS FOR EQUIPMENT AND MATERIAL RELATED TO THIS WORK.
12. FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CORING REQUIRED FOR INSTALLATION OF NEW FIRE PROTECTION SYSTEMS. CORING ACTIVITIES SHOULD BE CLOSELY COORDINATED WITH OWNER'S REPRESENTATIVE. FPC SHALL DEMARCATE INTENDED CORING LOCATIONS AND REVIEW WITH OWNER PRIOR TO PROCEEDING WITH WORK.
13. FIRE PROTECTION CONTRACTOR SHOULD TAKE PRECAUTIONS NECESSARY TO MINIMIZE CONSTRUCTION DEBRIS TRANSFER TO ADJACENT NON-WORK AREAS.
14. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL LOW VOLTAGE CABLING AND POWER WIRING/CONDUIT INDICATED ON THIS PLAN. COORDINATE WORK WITH ELECTRICAL CONTRACTOR PRIOR TO BID.
15. FIRE PROTECTION CONTRACTOR SHALL RUN ALL FIRE PROTECTION PIPING AS HIGH AS POSSIBLE WITHIN THE TRUSS SPACE. COORDINATE THE LOCATION OF ALL PIPING WITH THE STRUCTURAL PLANS, ARCHITECTURAL CEILING HEIGHTS AND OTHER TRADES TO AVOID CONFLICTS. NOTIFY CONSTRUCTION MANAGER AS SOON AS ANY CONFLICTS ARE DETECTED. FAILURE TO PROPERLY COORDINATE PIPE ROUTING WITH OTHER TRADES WILL BE REQUIRED TO BE MOVED AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
16. FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL SPRINKLER HEADS ABOVE AND BELOW CEILING WHERE CONCEALED COMBUSTIBLE SPACES ARE PRESENT.
17. FIRE PROTECTION SYSTEM PIPING MUST BE HYDRAULICALLY CALCULATED, SIZED, AND BID USING SCHEDULE 10 ROLL-GROOVED AND SCHEDULE 40 CUT-GROOVED, THREADED OR WELDED PIPE. PIPE SCHEDULE DESIGN METHODS ARE NOT PERMITTED. HYDRAULIC CALCULATIONS MUST BE PERFORMED TO ALL APPLICABLE NFPA SPECIFICATIONS, AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL AS PART OF THE SHOP DRAWING PROCEDURE. ROLL AND CUT GROOVED PIPE SHALL BE PROVIDED WITH MECHANICAL JOINT FITTINGS AND COUPLINGS.
18. PROVIDE DRAWINGS AND CALCULATIONS WITH PROFESSIONAL ENGINEER OR NICET III SEAL FOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION FOR REVIEW PRIOR TO INSTALLATION.
19. THE FOLLOWING INFORMATION TO BE USED FOR HYDRAULIC CALCULATIONS:
    - A. OCCUPANCY CLASSIFICATION = LIGHT HAZARD / ORDINARY HAZARD GROUP 1 / ORDINARY HAZARD GROUP 2.
    - B. AREA OF SPRINKLER APPLICATION = 1500 S.F.
    - C. AREA OF SPRINKLER COVERAGE = 200 S.F. / 130 S.F. / 130 S.F.
    - D. DENSITY = 0.10 GPM PER S.F. / 0.15 GPM PER S.F / 0.20 GPM PER S.F.
    - E. RESIDUAL PRESSURE AT MOST REMOTE HEAD AS REQUIRED BY AREA OF APPLICATION.
    - F. HOSE STREAM ALLOWANCE = 100 GPM / 250 GPM / 250 GPM.
20. UNDERGROUND FIRE SERVICE CONTRACTORS ARE REQUIRED TO HAVE A CLASS I OR V LICENSE.

FIRE PROTECTION SHEET INDEX

FPA000	FIRE PROTECTION COVER PAGE
FPA100	FIRE PROTECTION 1ST & 2ND FLOOR PLAN
FPA500	FIRE PROTECTION DETAILS AND SCHEDULES

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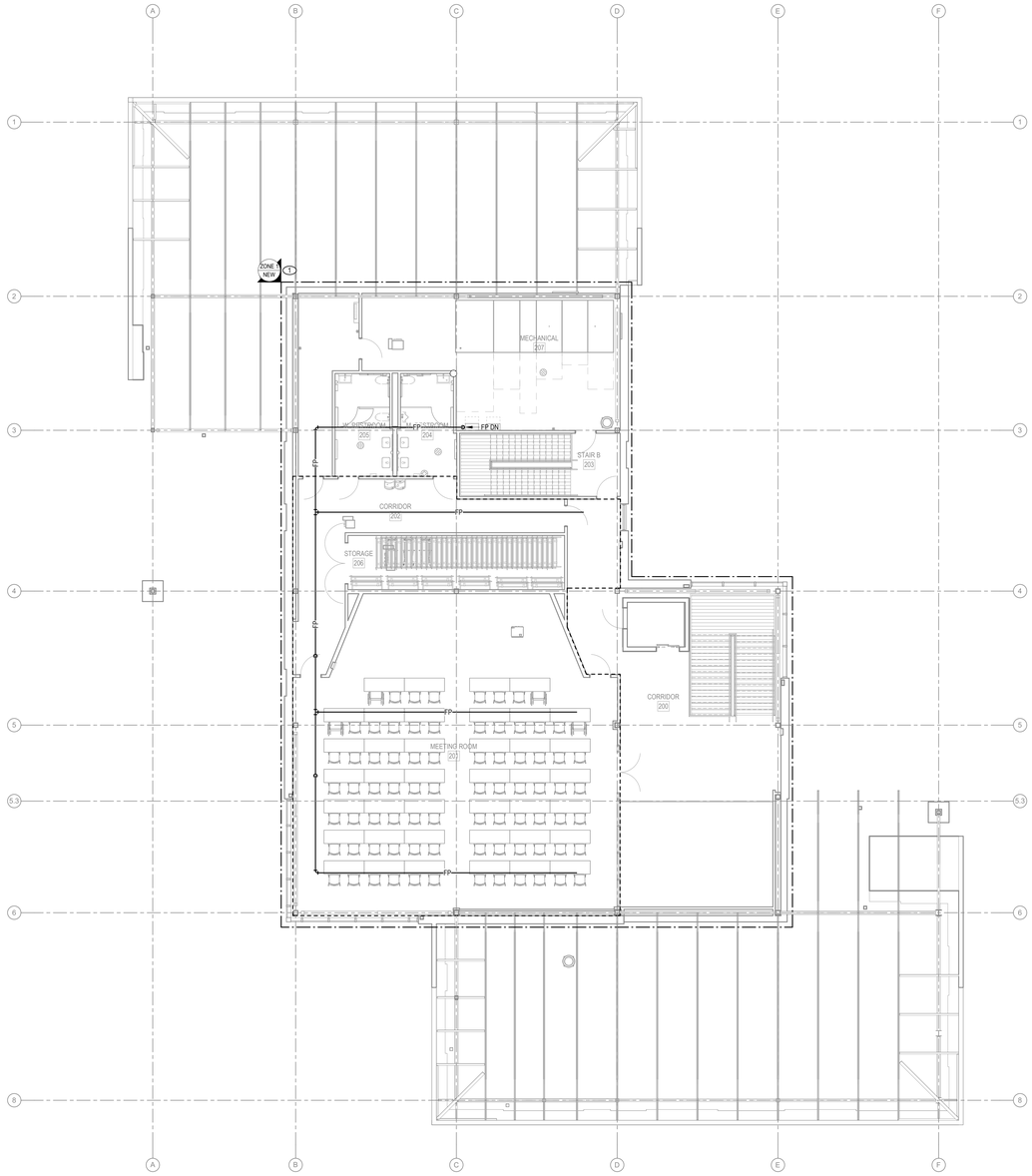
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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FIRE PROTECTION COVER PAGE FPA000

KEYED NOTES:

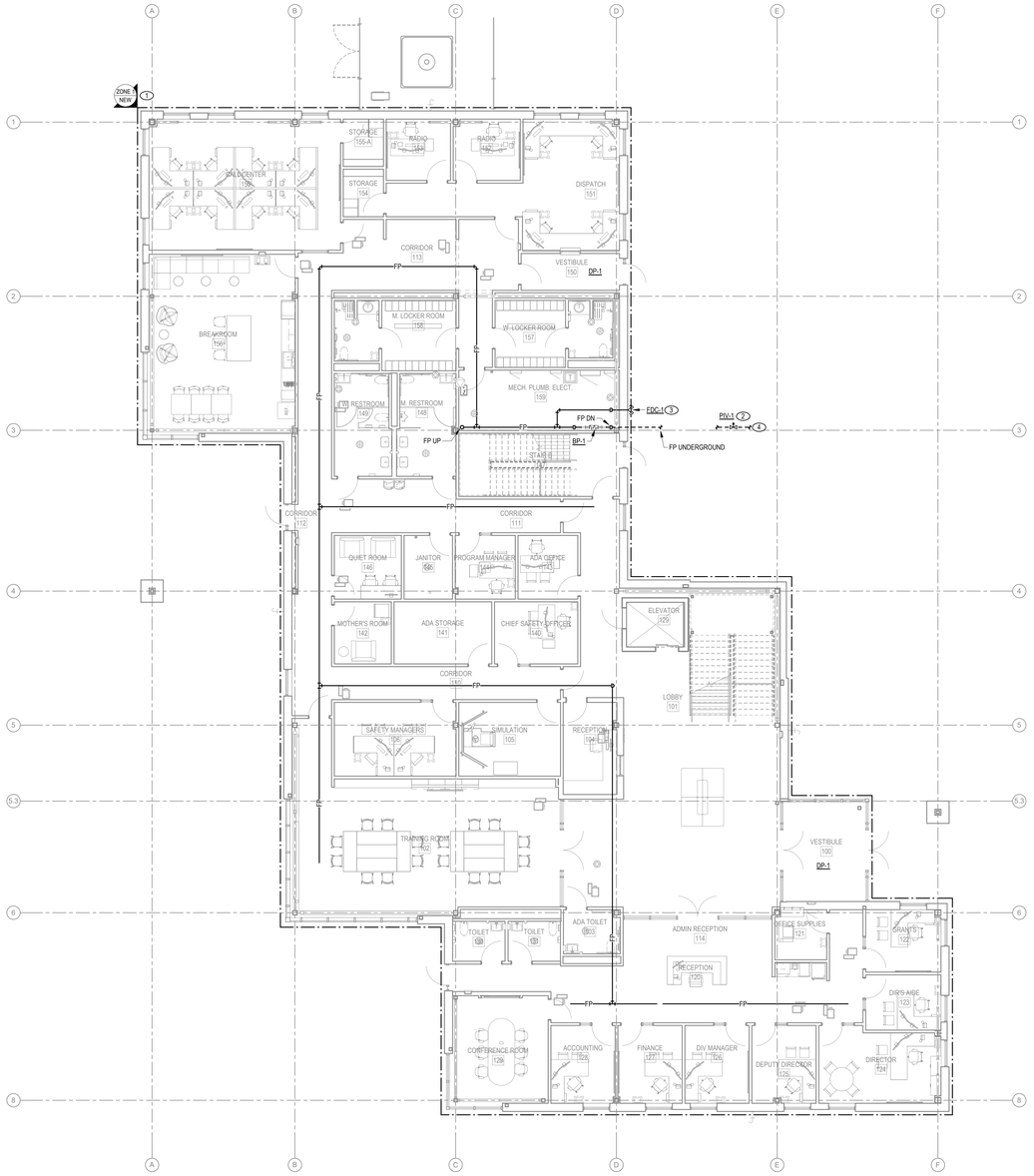
1. PROVIDE NEW SPRINKLER ZONE 1 TO SERVE BUILDING. ZONE IS APPROXIMATELY 17,000 SQUARE FEET. ALL EXPOSED PIPING TO BE PAINTED.
2. PROVIDE POST INDICATOR VALVE ON FIRE SPRINKLER LINE ENTERING THE BUILDING. LOCATE IN GREEN SPACE ON SITE. REFER TO CIVIL PLANS. COORDINATE EXACT LOCATION WITH AUTHORITY HAVING JURISDICTION.
3. COORDINATE FIRE DEPARTMENT CONNECTION LOCATION WITH AUTHORITY HAVING JURISDICTION.
4. REFER TO CIVIL PLANS FOR PIPE CONTINUATION.



N

1 FIRE PROTECTION SECOND FLOOR PLAN

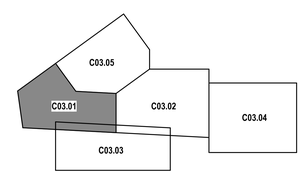
1/8" = 1'-0"



N

2 FIRE PROTECTION FIRST FLOOR PLAN

1/8" = 1'-0"



KEY MAP

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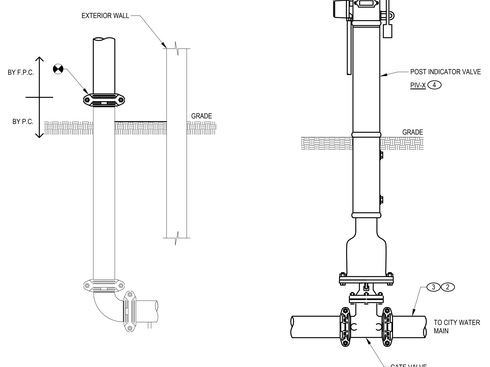
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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

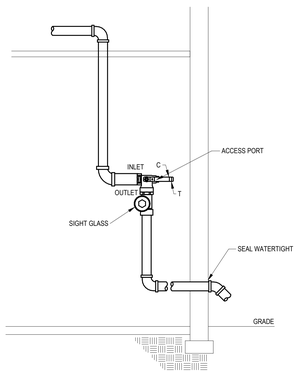
FIRE PROTECTION 1ST & 2ND FLOOR PLAN **FPA100**



1 FREE STANDING PIV
N.T.S.

KEYED NOTES:

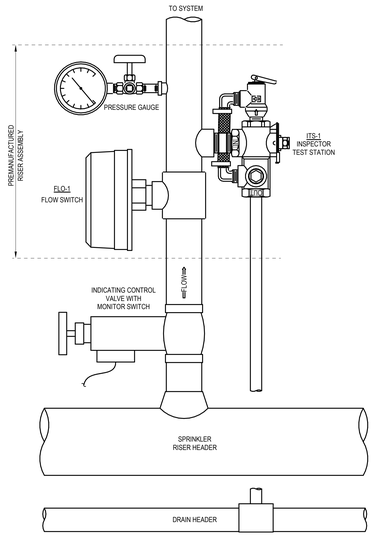
1. SEAL ALL WALL AND FLOOR PENETRATIONS WATERTIGHT.
2. INSTALL WITH PROPER SUPPORT AND THRUST RESTRAINTS PER NFPA AND LOCAL WATER DEPARTMENT.
3. UNDERGROUND PIPING TO MEET MINIMUM BURY DEPTH AS OUTLINED IN THE SPECIFICATION.
4. PIV IS PROVIDED BY FPC AND INSTALLED BY P.C.



2 REMOTE INSPECTOR TEST ASSEMBLY
N.T.S.

GENERAL NOTES:

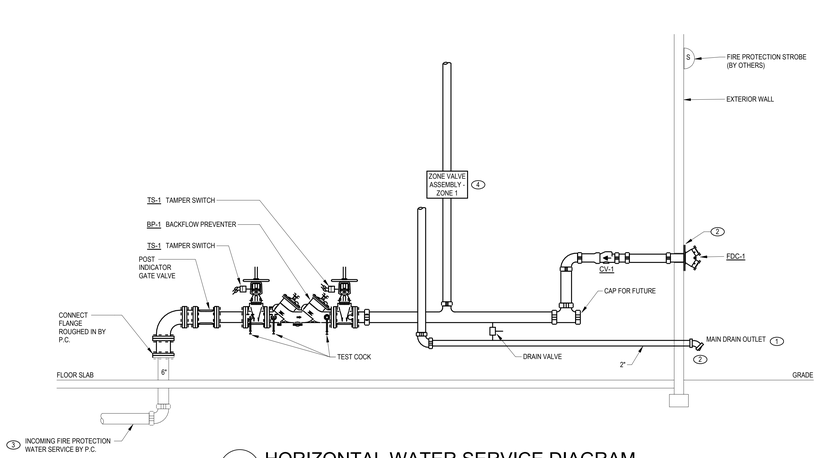
1. DRY PIPE SYSTEMS SHALL HAVE THE INSPECTOR TEST VALVE LOCATED AT THE MOST REMOTE LOCATION AS REQUIRED BY NFPA 13.
2. PROVIDE A SPLASH BLOCK IN AREAS WITHOUT HARD SURFACES AT DISCHARGE.



3 ZONE VALVE ASSEMBLY
N.T.S.

GENERAL NOTES:

1. COMPONENTS CAN BE PROVIDED AS A PREMANUFACTURED ASSEMBLY OR AS INDIVIDUAL COMPONENTS.
2. FOR COMBINED STANDPIPE SYSTEMS PROVIDE A CHECK VALVE AS REQUIRED BY NFPA 14
3. FOR COMBINED STANDPIPE SYSTEM PROVIDE A PRESSURE RELIEF VALVE AS REQUIRED BY NFPA 13.
4. FOR DRY SYSTEMS PROVIDE THE INSPECTOR TEST VALVE AT THE MOST REMOTE LOCATION AS REQUIRED BY NFPA 13



4 HORIZONTAL WATER SERVICE DIAGRAM
N.T.S.

KEYED NOTES:

1. TURN DOWN 45°. IF PIPING DISCHARGE IS LOCATED ABOVE A MATERIAL OTHER THAN HARD SURFACE, PROVIDE A CONCRETE SPLASH BLOCK.
2. ALL WALL PENETRATIONS SHALL BE SEALED WATERTIGHT.
3. CONTRACTOR TO VERIFY THE WATER SERVICE ENTRANCE SIZE INDICATED, BASED ON HYDRANT FLOW TEST DATA TAKEN AT SITE AND SYSTEM FLOW AND PRESSURE REQUIREMENTS
4. REFER TO ZONE VALVE ASSEMBLY DETAIL FOR ALL REQUIRED COMPONENTS.

FIRE PROTECTION MATERIAL LIST

EQUIPMENT (NOTE 1)	MANUFACTURER	DESCRIPTION	FIRE ALARM CONNECTION(S)	RATINGS		NOTES
				UL	FM	
BFV-1	TYCO, ANVIL, KENNEDY, MILWAUKEE, NIBCO, VICTAULIC	ITEM: BUTTERFLY VALVE - INDICATING TYPE, METAL WHEEL HANDLE, SUPERVISORY SWITCH WITH AUXILLIARY CONTACTS. 2" AND SMALLER, BRONZE BODY WITH THREADED ENDS. 2-1/2" AND LARGER, CAST OR DUCTILE IRON BODY WITH FLANGED OR GOOVED ENDS.	X	x		-
BP-1	FEBCO 850 SERIES AMES / FEBCO / WATTS, APOLLO / CONBRACO, ZURN / WILKINS	ITEM: BACKFLOW PREVENTER - DOUBLE CHECK DETECTOR ASSEMBLY RATED FOR 2-1/2" - 10" DIAMETER PIPING. THE CHECK VALVES SHALL UTILIZE CAPTURED SPRINGS AND SHALL HAVE REPLACEABLE SEATS. THE CHECKS SHALL BE DOUBLE-GUIDED, BOTH ALONG THE OUTSIDE EDGE OF THE CHECK MODULE AND THROUGH THE CENTER STEM ASSEMBLY. THE SEATS SHALL BE REPLACEABLE WITHOUT THE USE OF SPECIAL TOOLS. ACCESS TO THE INTERNAL CHECK ASSEMBLIES SHALL BE VIA A SINGLE TOP ENTRY COVER. THE COVER SHALL BE SECURELY HELD IN PLACE BY STAINLESS STEEL BOLTS. THE ASSEMBLY SHALL BE LISTED OR APPROVED UNDER THE REQUIREMENTS OF ASSE STD. 1048, AWWA STD. C510-92 AND CSA B64.5. APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA.	X	X		2
CV-1	VIKING MODEL G-1 NIBCO, RELIABLE, VICTAULIC	ITEM: CHECK VALVE - 3" - 8" CHECK VALVES SHALL BE CONSTRUCTED OF A DUCTILE IRON BODY WITH A BRASS SEAT AND A RUBBER FACED CLAPPER ASSEMBLY HINGED TO A REMOVABLE ACCESS COVER. VALVES SHALL HAVE A 250 PSI WORKING PRESSURE.		X		-
DP-1	VICTAULIC MODEL VS1 OR APPROVED EQUAL	ITEM: DRY PENDANT SPRINKLER HEAD WITH A FLEXIBLE CONNECTION SERVED OFF THE WET PIPE SPRINKLER SYSTEM. AVAILABLE IN PENDENT, CONCEALED AND HORIZONTAL SIDEWALL WITH LENGTHS UP TO 58". HOSE CONSTRUCTED OF STAINLESS STEEL. UL MODELS TO ALLOW FOR (4) 90 DEGREE BENDS. CONFIRM NUMBER OF 90 DEG BENDS ALLOWED FOR FM RATED MODELS. RATED FOR USE IN LIGHT AND ORDINARY HAZARD SYSTEMS.		X	X	-
FDC-1	POTTER, FPPI, CROKER	ITEM: FIRE DEPARTMENT CONNECTION - 4" X (2) 2-1/2" SIAMESE CONNECTION WITH NO CLAPPER. CAST BRASS BODY RATED FOR 175 PSI. PIN LUG DESIGN, 2-1/2" SWIVEL INLETS AND SWIVEL GASKETS. PROVIDE WITH CAPS AND CHAINS AS WELL AS BREAKABLE CAPS IN METAL OR PLASTIC TO PROTECT SWIVELS. PROVIDE WITH A POLISHED BRASS PLATE TO LABEL "AUTO SPKR". ACCESSORIES: BALL DRIP VALVE TO PROVIDE DRAINAGE OF ALL PIPING THAT COULD POTENTIALLY FREEZE. PIPE TO BUILDING EXTERIOR ABOVE SPLASH BLOCK OR HARD SURFACE. SEAL ALL EXTERIOR WALL PENETRATIONS WATERTIGHT.		X		3
FLO-1	SYSTEM SENSOR WFD SERIES VIKING, POETTER	ITEM: FLOW SWITCH - WATER FLOW SWITCH - SHALL BE A VANE TYPE WATERFLOW SWITCH AFFIXED TO THE SYSTEM RISER. WATER VANE TYPE SWITCH SHALL BE LABELED AS TO THE CORRECT ORIENTATION OF FLOW WHEN MOUNTED ON SYSTEM PIPING. IF DRILLING OF THE SYSTEM RISER IS NECESSARY TO MOUNT FLOW SWITCH, THE DRILLED OUT DISC SHALL BE RETRIEVED AND ATTACHED TO THE MOUNTING U-BOLT OF THE FLOW SWITCH. THE VANE TYPE FLOW SWITCH SHALL BE EQUIPPED WITH AN ADJUSTABLE DELAY OF AUDIBLE ALARM INITIATION APPROVED FOR ITS INTENDED USE. ADJUSTMENT RANGE SHALL BE FROM 0 TO 90 SECONDS.	X	X		-
ITS-1	AGF MODEL 1000, RELIABLE, TYCO VIKING	ITEM: INSPECTOR TEST STATION - COMBINATION TEST AND DRAIN ASSEMBLY SHALL CONFORM TO NFPA STANDARDS NFPA-13, NFPA-13R AND NFPA-13D (AS APPLICABLE). THE COMBINATION TEST AND DRAIN VALVE SHALL BE RATED FOR A WORKING PRESSURE OF 300 PSIG. ANGLED DESIGN WITH A TAMPER RESISTANT TEST ORIFICE FOR ALL SIZES, TAMPER RESISTANT SIGHT GLASSES AND STEEL IDENTIFICATION PLATE INDICATING THE VALVE'S MODEL NUMBER, ORIFICE SIZE, AND CURRENT POSITION (OFF-TEST-DRAIN). BRONZE BODY, BRASS STEM, IMPREGNATED TEFLON SEAT, CHROME COATED BRASS BALL, F.I.P.T., AND A STEEL HANDLE ALLOWING FOR POSITIVE STOPS AT THE TEST AND DRAIN POSITIONS. TAPPED PORT IN THE VALVE BODY FOR INSTALLATION OF THE RELIEF VALVE AND A PRESSURE GAUGE. LOCKING KIT, IF SPECIFIED, SHALL PROVIDE VANDAL RESISTANCE AND PREVENT ACCIDENTAL ALARM ACTIVATION.		X		-
PIV-1	MUELLER NIBCO, KENNEDY VICTAULIC	ITEM: FREE STANDING POST INDICATOR VALVE - 2" - 12" BASE MOUNTED VALVE ASSEMBLY, CAST IRON CONSTRUCTION. TO CONNECT TO A NON-RISING STEM GATE VALVE. POSITION INDICATOR AND LOCKABLE HANDLE.		X		-
	MUELLER NIBCO VICTAULIC	ITEM: GATE VALVE - 2" - 12" OS & Y GATE VALVE WITH NON-RISING STEM. VALVE RATED FOR 175 PSI AND DESIGNED TO CONNECT TO THE POST INDICATOR VALVE.		X		-
	SYSTEM SENSOR PIBV2, POTTER, PRIOR APPROVED EQUAL	ITEM: TAMPER SWITCH - POST INDICATOR VALVE SUPERVISORY SWITCH INSTALLED ON EACH VALVE AS DESIGNATED ON THE DRAWINGS. MOUNT SWITCHES TO NOT INTERFERE WITH OPERATION OF THE VALVE AND OPERATE WITHIN TWO REVOLUTIONS OF THE VALVE. ASSEMBLY TO BE CONTAINED IN A WEATHERPROOF DIE CAST METAL HOUSING, WITH A 1/2" CONDUIT CONNECTION. AND NECESSARY EQUIPMENT FOR ATTACHMENT TO THE VALVE. THE SWITCH ASSEMBLY SHALL INCLUDE TWO SWITCHES EACH WITH A RATED CAPACITY OF 10 AMP @ 125/250VAC AND 2.5 AMP @ 24VDC. TAMPER RESISTANT COVER LISTED FOR INDOOR OR OUTDOOR USE.	X	X		-
TS-1	SYSTEM SENSOR OSY2, POTTER, PRIOR APPROVED EQUAL	ITEM: TAMPER SWITCH - OS & Y SUPERVISORY SWITCH INSTALLED ON EACH VALVE AS DESIGNATED ON THE DRAWINGS. MOUNT SWITCHES TO NOT INTERFERE WITH OPERATION OF THE VALVE AND OPERATE WITHIN TWO REVOLUTIONS OF THE VALVE. ASSEMBLY TO BE CONTAINED IN A WEATHERPROOF DIE CAST METAL HOUSING, WITH A 1/2" CONDUIT CONNECTION. AND NECESSARY EQUIPMENT FOR ATTACHMENT TO THE VALVE. THE SWITCH ASSEMBLY SHALL INCLUDE TWO SWITCHES EACH WITH A RATED CAPACITY OF 10 AMP @ 125/250VAC AND 2.5 AMP @ 24VDC. TAMPER RESISTANT COVER LISTED FOR INDOOR OR OUTDOOR USE.	X	X		-

NOTES:
1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL VALVE AND EQUIPMENT REQUIREMENTS.
2. UNIT APPROVED FOR VERTICAL OR HORIZONTAL INSTALLATION
3. COORDINATE EXACT REQUIREMENTS WITH AHJ.

PIPING APPLICATION SCHEDULE (FIRE PROTECTION)

SYSTEM (NOTE 1)	USAGE	LOCATION	DESIGN WORKING PRESSURE (PSI) (NOTE 2)	MATERIAL	SCHEDULE	JOINTS	USAGE SIZE RANGE	NOTES
SERVICE PIPING	PIPING BETWEEN THE FIRE DEPARTMENT CONNNECTION AND CHECK VALVES	ABOVE GRADE	STANDARD	GALVANIZED	10 OR 40	GROOVED ENDS	ALL	4
SERVICE PIPING	WATER SERVICE ENTRANCE TO THE BUILDING - BACKFLOW PREVENTER	ABOVE GRADE	STANDARD	BLACK STEEL	10 OR 40	GROOVED ENDS OR WELDED	ALL	-
DRAIN RISERS	INSPECTOR TEST DISCHARGE RISER OR HOSE VALVE TEST DRAIN	ABOVE GRADE	STANDARD	GALVANIZED	40	THREADED, WELDED, OR GROOVED (CUT OR ROLLED)	ALL	3, 4
					10	WELDED, OR ROLL-GROOVED	ALL	3, 4
WET - PIPE SPRINKLER	FIRE PROTECTION MAIN AND BRANCH PIPING	ABOVE GRADE	STANDARD	BLACK STEEL	40	THREADED, WELDED, OR GROOVED (CUT OR ROLLED)	2" AND SMALLER	3
					10	WELDED, OR ROLL-GROOVED	2-1/2" AND LARGER	3

NOTES:
1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. STANDARD PRESSURE IS < 175 PSI / HIGH PRESSURE IS 175 - 350 PSI
3. PAINT EXPOSED PIPING. COORDINATE WITH ARCHITECT.
4. PROVIDE GALVANIZED PIPING WHERE REQUIRED BY NFPA.

FIRE SPRINKLER USAGE MATRIX

SPRINKLER CALLOUT	AREA TYPE SERVED	HAZARD CLASSIFICATION					SPRINKLER TYPE						TYPE OF SYSTEM SERVED						CEILING TYPE				SPRINKLER FINISH					RESPONSE TYPE			NOTES
		LIGHT	ORD. GROUP 1	ORD. GROUP 2	EXTRA GROUP 1	EXTRA GROUP 2	PENDANT	UPRIGHT	RECESSED	GASKETED	SIDEWALL	CONCEALED	WET - PIPE	DRY - PIPE	DOUBLE INTERLOCK	CHEMICAL SYSTEM	WET - PIPE W/ DRY PENDANT	GLYCOL	LAY - IN	GYP BOARD	CLOUDS	EXPOSED STRUCTURE	CHROME	WHITE	CUSTOM COLOR	POLISHED BRASS	ROUGH BRASS	QUICK	STANDARD	ESFR	
SPR-1	OFFICE / CONFERENCE ROOM	X										X	X						X		X			X				X			-
SPR-2	STORAGE		X					X				X	X						X			X		X			X	X			1, 2
SPR-3	JANITOR CLOSET		X									X	X						X					X				X			1
SPR-4	MECHANICAL / ELECTRICAL ROOMS		X					X					X									X					X	X			1, 2
SPR-5	ENTRANCE VESTIBULE	X										X					X			X				X				X			3
SPR-6	LOCKER ROOM	X										X	X							X				X				X			1

GENERAL NOTES: (APPLIES TO ALL AREAS AND SPRINKLER TYPES)
1. SPRINKLER CALLOUT TO BE USED IN THE SHOP DRAWING PROCESS FOR NOTING THE VARIOUS SPRINKLER CONFIGURATIONS.
2. ALL SPRINKLERS TO BE UL LISTED.
3. CONTRACTOR TO VERIFY SPRINKLER TEMPERATURE RATING IS ADEQUATE FOR THE AREA TO BE SERVED. THIS INCLUDES AREAS WITH ELEVATED TEMPERATURES DUE TO EQUIPMENT IN THE SPACE.
4. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE CEILING MATERIAL AND LAYOUT.

NOTES:
1. INSTALL PIPE MOUNTED SPRINKLER GUARD CONFORMING TO UL 199 STANDARDS ON ALL SPRINKLERS IN THIS AREA.
2. PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW OBSTRUCTIONS.
3. DRY PENDANT HEAD TO SERVE AREAS WITH FREEZE POTENTIAL. USE MODEL DP-1 FROM THE FPML. ALL FIRE PROTECTION PIPING NORMALLY CONTAINING WATER WILL NEED TO BE LOCATED IN A SPACE MAINTAINED ABOVE 40 DEG F.

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PROJECT NUMBER: 05.076
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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

FIRE PROTECTION DETAILS AND SCHEDULES FPA500

GENERAL PLAN SYMBOLS

PLAN REVISION NUMBER

DETAIL NUMBER ON SHEET
SHEET NUMBER WHERE DETAIL IS PLACED

KEYNOTE SYMBOL

CONTINUATION SYMBOL

POINT WHERE NEW CONNECTS TO EXISTING

Room Name
Number
ROOM NAME / NUMBER

AREA BEING DEMOLISHED

AREA NOT IN CONTRACT

MARK — SCHEDULED EQUIPMENT (UNDERLINED)

MARK — NONSCHEDULED EQUIPMENT

(E) MARK — EXISTING EQUIPMENT - HALFTONE - (E) PREFIX

(R) MARK — EXISTING RELOCATED EQUIPMENT - (R) PREFIX

ABBREVIATIONS

▲T	TEMPERATURE DIFFERENCE
@	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
A/E	ARCHITECT / ENGINEER
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFH	CUBIC FEET PER HOUR
CLG	CEILING
C.M.	CONSTRUCTION MANAGER
CO	CLEAN OUT
CV	CONTROL VALVE
CW	COLD WATER
D	DEGREE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DN	DOWN
DW	DEIONIZED WATER
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EA	EXHAUST AIR
EG	EXHAUST GRILLE
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATION
GAL	GALLON
GF	GAS-FIRED
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORSE POWER
HP	HIGH PRESSURE
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT DRAIN
IN	INCH
I.E.	INVERT ELEVATION
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LB/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LP	LOW PRESSURE
LP	LIQUEFIED PETROLEUM GAS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
M.C.	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MP	MEDIUM PRESSURE
MTR	MOTOR
MUA	MAKE-UP/AIR
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
R	DUCT RISER
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RLA	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SM	SURFACE MOUNT
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
STM	STEAM
T	THERMOSTAT
T.C.	TEMP CONTROLS CONTRACTOR
TD	TEMPERATURE DROP
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
YCO	YARD CLEANOUT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLING CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CH	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CHWP	CHILLED WATER PUMP
CP	CONDENSER PUMP
DBP	DOMESTIC WATER BOOSTER PUMP
DC	DUCT MOUNTED COIL
CP	DOMESTIC WATER CIRCULATING PUMP
EF	EXHAUST FAN
EDC	ELECTRIC DUCT COIL
ET	EXPANSION TANK
ERV	ENERGY RECOVERY VENTILATOR
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FP	FIRE PUMP
GI	GREASE INTERCEPTOR
GRV	GRAVITY ROOF VENTILATOR
HP	HEAT PUMP
HWP	HEATING WATER PUMP
HRU	HEAT RECOVERY UNIT
P	PUMP
PRV	POWER ROOF VENTILATOR
RF	RETURN FAN
RHC	REHEAT COIL
RTU	ROOFTOP UNIT
SP	SUMP PUMP
UH	UNIT HEATER
WH	WATER HEATER

* NOTE *
ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL SUBSEQUENT SHEETS IN SHEET LIST. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING PIPING

2"	NOMINAL PIPE SIZE
2" CW	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
	COLD WATER TYPE
CW	COLD WATER
SCW	SOFTENED COLD WATER
	HOT WATER TYPE
HW	HOT WATER
HW 140°	HOT WATER 140°
SHW	SOFTENED HOT WATER
HWC	HOT WATER RECIRC TYPE
HWC	HOT WATER RECIRC
HWC 140°	HOT WATER RECIRC 140°
SHWC	SOFTENED HOT WATER RECIRC
DI	DEIONIZED WATER
DIR	DEIONIZED WATER RETURN
RO	REVERSE OSMOSIS
ROR	REVERSE OSMOSIS RETURN
WS	WATER SERVICE
ST	STORM
STO	STORM OVERFLOW
SAN	SANITARY
PD	PUMPED DISCHARGE
V	VENT
AW	ACID WASTE
AV	ACID VENT
GSAN	GREASE SANITARY
GV	GREASE VENT
OW	OIL WASTE
OV	OIL VENT
CA	COMPRESSED AIR

PIPE FITTINGS

PIPE RISE / DROP

PIPE ELBOW

PIPE TEE HORIZONTAL / RISER / DROP

PIPE CAP / CLEANOUT / CONTINUATION

P-TRAP

PIPE ACCESSORIES

BALANCING VALVE	ANGLE VALVE
BALL VALVE	BUTTERFLY VALVE
SOLENOIDVALVE	PLUG VALVE
GATE VALVE	INLINE PUMP
GENERIC ISOLATION VALVE	HOSE BIBB/ HYDRANT
PRESSURE REDUCING VALVE	PRESSURE GAUGE
UNION	AIR VENT
STRAINER	PRESSURE RELIEF
WATER METER	BACKFLOW PREVENTER
	BACKFLOW PREVENTER

FIXTURE SYMBOLS

FD FLOOR DRAIN (ROUND)

FD FLOOR DRAIN (SQUARE)

FCO FLOOR CLEANOUT

FS FLOOR SINK

RD COMBINATION ROOF DRAIN

RD ROOF DRAIN

GENERAL NOTES - PLUMBING

1. ALL PLUMBING WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION:
   - 2023 FLORIDA PLUMBING CODE
   - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
   - 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION
   - LOCAL CODES, INCLUDING ALL AMENDMENTS AND ORDINANCES.
2. THESE DRAWINGS ARE DIAGRAMMATIC, NOT ALL PIPING, FITTINGS, OFFSETS, VALVES OR OTHER ACCESSORIES ARE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ANYALL NECESSARY PIPING, FITTINGS, VALVES, REGULATORS, GAUGES, HANGERS, INSULATION, EQUIPMENT, FIXTURES, ETC. REQUIRED FOR A COMPLETE FUNCTIONAL SYSTEM AS SHOWN ON PLUMBING PLANS AND AS OUTLINED IN SPECIFICATION INFORMATION UNLESS OTHERWISE NOTED.
3. PLUMBING CONTRACTOR SHOULD UTILIZE THESE PLANS AND PROVIDE RECORD DRAWING COMMENTARY REFLECTING ACTUAL INSTALLATION. PROVIDE ONE HARD-COPY SET TO ARCHITECT/ENGINEER.
4. PLUMBING CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THIS WORK.
5. PLUMBING CONTRACTOR SHOULD REVIEW ANTICIPATED MAN/MATERIAL LIFT EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO UTILIZING FOR INSTALLATION. DAMAGED FLOORING RESULTING FROM UNAPPROVED EQUIPMENT WILL BE REPLACED AT THE PLUMBING CONTRACTOR'S EXPENSE.
6. REFER TO WRITTEN SPECIFICATIONS FOR EQUIPMENT AND MATERIAL RELATED TO THIS WORK.
7. COORDINATE SEQUENCE OF PLUMBING WORK CLOSELY WITH GENERAL CONTRACTOR/ CONSTRUCTION MANAGER AND OTHER TRADES TO AVOID CONFLICTS.
8. PLUMBING CONTRACTOR SHOULD TAKE PRECAUTIONS NECESSARY TO MINIMIZE CONSTRUCTION DEBRIS TRANSFER TO ADJACENT NON-WORK AREAS.
9. PRIOR TO COMMENCING WORK ON THIS PROJECT , VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY.
10. PLUMBING UTILITY CONNECTIONS SHALL EXTEND TO 5'-0" OUTSIDE OF THE BUILDING FOR CONNECTION BY THE SITE UTILITIES CONTRACTOR.
11. COORDINATE ALL BELOW FLOOR PLUMBING PIPING AND EQUIPMENT WITH STRUCTURAL PLANS.
12. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
13. PLUMBING CONTRACTOR SHALL RUN ALL DOMESTIC WATER, WASTE AND VENT, AND NATURAL GAS AS HIGH AS POSSIBLE WITHIN THE CEILING / TRUSS SPACE. COORDINATE THE LOCATION OF ALL PIPING WITH THE STRUCTURAL PLANS, ARCHITECTURAL CEILING HEIGHTS, AND OTHER TRADES TO AVOID CONFLICTS. NOTIFY GENERAL CONTRACTOR/ CONSTRUCTION MANAGER AS SOON AS ANY CONFLICTS ARE DETECTED. FAILURE TO PROPERLY COORDINATE PIPE ROUTING WITH OTHER TRADES WILL BE REQUIRED TO BE MOVED AT THE PLUMBING CONTRACTOR'S EXPENSE.
14. PLUMBING CONTRACTOR SHALL COORDINATE PIPE ROUTING TO AVOID ROOF HATCHES, SKYLIGHTS, EQUIPMENT SERVICE ACCESS AND ACCESS PANELS.
15. PLUMBING CONTRACTOR SHALL FIELD VERIFY MEANS AND METHODS REQUIRED TO BRING PLUMBING FIXTURES, EQUIPMENT AND MATERIAL INTO THE BUILDING. COORDINATE STORAGE AND LAY DOWN AREAS WITH THE GENERAL CONTRACTOR/ CONSTRUCTION MANAGER PRIOR TO BRINGING MATERIALS TO THE PROJECT SITE.
16. REFERENCE ARCHITECTURAL DRAWINGS FOR CODE-RATED WALLS, FLOORS, AND CEILINGS. PROVIDE UL RATED, FM APPROVED FIRE STOP AT ALL NEW PLUMBING PIPE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS.
17. ALL DOMESTIC WATER AND VENT PIPING DROPS TO PLUMBING FIXTURES SHALL BE CONCEALED IN THE WALL UNLESS OTHERWISE NOTED.
18. FLUSH NEW WATER PIPING AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
19. PROVIDE WATER HAMMER ARRESTORS SERVING QUICK-CLOSING VALVES IN EACH BRANCH OR AT APPLIANCE OR FIXTURE.
20. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS, AND OTHER CEILING MOUNTED ITEMS.
21. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE PIPING SHALL BE CHROME PLATED.
22. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
23. ALL PLUMBING PIPING SHALL BE SUPPORTED. SEE SPECIFICATIONS.
24. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AUTHORITY HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" ABOVE FINISHED FLOOR.
25. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR TESTS AND CERTIFICATION OF REDUCED PRESSURE BACKFLOW DEVICE PER AUTHORITY HAVING JURISDICTION. BACKFLOW CERTIFICATION SHALL BE POSTED ON BACKFLOW DEVICE ONCE TESTING HAS BEEN COMPLETED.
26. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.
27. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
28. COORDINATE FLOOR DRAIN AND CLEANOUT ROUGH-IN WITH SELECTED FLOOR COVERING SYSTEM.
29. DO NOT UTILIZE COMBINATION WASTE AND VENT SYSTEM FOR SINKS AND LAVATORIES ROUGHED IN ABOVE FLOOR.
30. NOTIFY LOCAL INSPECTOR PRIOR TO BACKFILL OF ALL UNDER SLAB PLUMBING. ANY WORK COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE INSPECTOR'S REQUEST.
31. FILL/SEAL ALL DRAIN TRAPS WITH MINERAL OIL.
32. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
33. DO NOT USE PVC MATERIALS IN PLENUM AREAS USED AS RETURN AIR PATHS. REFERENCE ARCHITECTURAL CEILING PLAN AND MECHANICAL PLANS.
34. VERIFY THE LOCATION AND INVERT ELEVATION OF THE SANITARY SEWER ON THE SITE PLAN AND REVISE THE SEWER SYSTEM AS REQUIRED.
35. VERIFY THE LOCATION AND INVERT ELEVATION OF THE STORM SEWER ON THE SITE PLAN AND REVISE THE SEWER SYSTEM AS REQUIRED.
36. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, GRAB BARS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
37. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES AND A MAXIMUM OF 24 INCHES FROM ANY VERTICAL SURFACE AND A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE OR OPERABLE DOOR, WINDOW, ETC.. SHIFT VENT THRU ROOF AS REQUIRED.
38. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
39. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE NOT LESS THAN 1".
40. DO NOT ROUTE PIPING DIRECTLY ABOVE OR BELOW ELECTRICAL PANELS, INCLUDING PANEL SERVICE CLEARANCES.
41. DO NOT SUSPEND PIPING FROM OTHER PIPING, DUCTWORK OR CONDUIT. ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE USING THE APPROPRIATE ATTACHMENTS.
42. PIPE SPACING SHOWN ON THE DRAWINGS IS FOR CLARITY ONLY. PIPING SHALL BE INSTALLED TO CONSERVE SPACE WHERE POSSIBLE.
43. REFER TO MECHANICAL SHEETS FOR PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT.
44. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL LOW VOLTAGE CABLING AND POWER WIRING/CONDUIT INDICATED THIS PLAN UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR PRIOR TO BID.
45. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPING SIZES TO INDIVIDUAL FIXTURES. BRANCH PIPE SIZES SHALL MATCH SCHEDULE UNLESS OTHERWISE NOTED.
46. SOIL ON SITE IS CONTAMINATED AND CANNOT BE REMOVED FROM SITE. SEE CIVIL DRAWINGS FOR STOCKPILE LOCATION.

PLUMBING SHEET INDEX

PA000	PLUMBING COVER PAGE
PA100	PLUMBING UNDERFLOOR PLAN
PA101	PLUMBING 1ST & 2ND FLOOR PLAN
PA401	PLUMBING 1ST & 2ND FLOOR ENLARGED VIEWS
PA500	PLUMBING DETAILS
PA600	PLUMBING SCHEDULES

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100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

PLUMBING COVER PAGE PA000

KEYED NOTES:

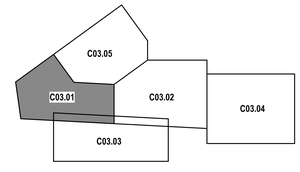
1. 4" SAN UP.
2. 2" V UP.
3. 2" SAN UP.
4. 2 1/2" CW UP.
5. 3" SAN UP.
6. SEE CIVIL PLANS FOR PIPE CONTINUATION.



N

1 PLUMBING UNDERFLOOR PLAN

1/8" = 1'-0"



KEY MAP

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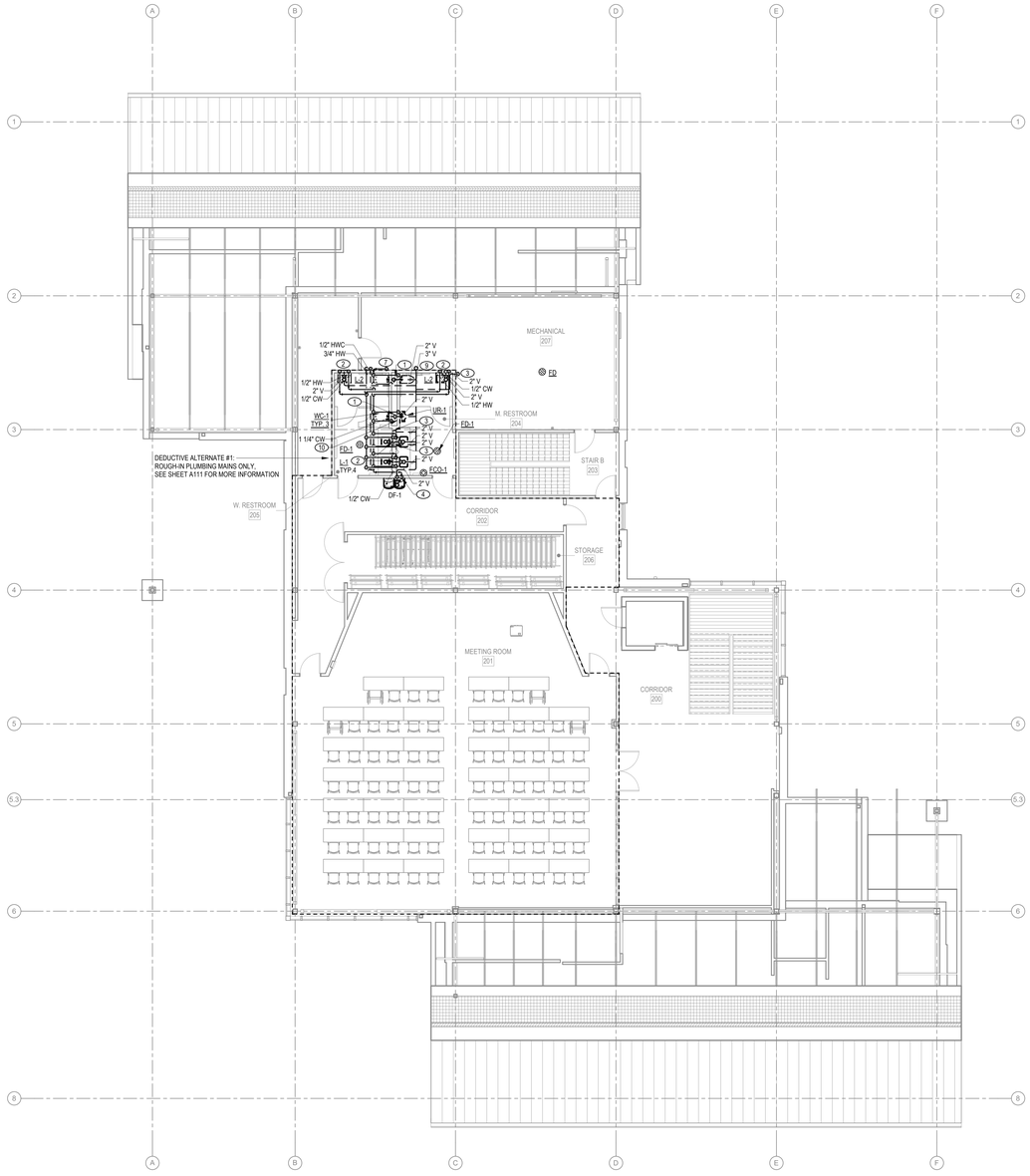
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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PLUMBING UNDERFLOOR PLAN PA100

KEYED NOTES:

1. 4" SAN FROM BELOW, 2" V DN, 1 1/4" CW DN.
2. 2" SAN FROM BELOW, 2" V DN, 1/2" CW DN, 1/2" HW DN.
3. 2" V DN.
4. 2" SAN FROM BELOW, 2" V DN, 1/2" CW DN.
5. 3" SAN FROM BELOW, 2" V DN, 3/4" CW DN, 3/4" HW DN.
6. 3/4" CW DN.
7. 1 1/4" CW DN, 3/4" HW DN, 1/2" HWC DN.
8. 3" SAN UP.
9. 4" VTR.
10. 2" SAN FROM BELOW, 2" V DN, 3/4" CW DN.
11. 2 1/2" DN.
12. 2" PD TO INDIRECTLY DISCHARGE TO MOP BASIN.
13. 1/2" CW DN.
14. 1/2" CW DN, 2" SAN TYING INTO SINK SANITARY PIPING.



N

1 PLUMBING SECOND FLOOR PLAN

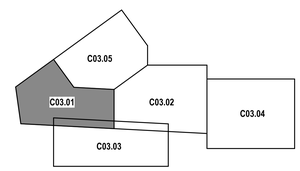
1/8" = 1'-0"



N

2 PLUMBING FIRST FLOOR PLAN

1/8" = 1'-0"



KEY MAP

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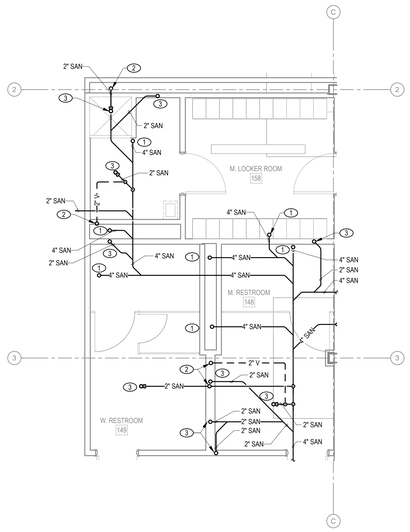
Revisions

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DATE 10/22/2026
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PLUMBING 1ST & 2ND FLOOR PLAN **PA101**

KEYED NOTES:

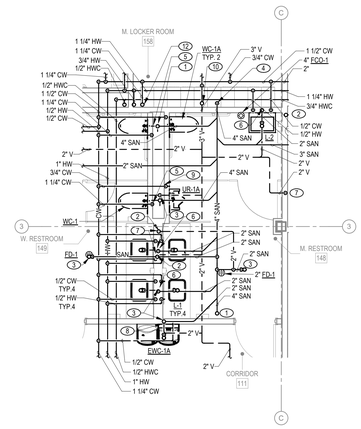
1. 4" SAN UP.
2. 2" V UP.
3. 2" SAN UP.
4. 4" SAN DN.
5. 4" SAN FROM BELOW, 2" V DN, 1 1/4" CW DN.
6. 2" SAN FROM BELOW, 2" V DN, 1/2" CW DN, 1/2" HW DN.
7. 2" V DN.
8. 2" SAN FROM BELOW, 2" V DN, 1/2" CW DN.
9. 2" SAN FROM BELOW, 2" V DN, 3/4" CW DN.
10. 3" V UP.
11. 2 1/2" DN.
12. 1 1/4" CW UP, 3/4" HW UP.



N

1 ENLARGED PLUMBING UNDERFLOOR PLAN

1/4" = 1'-0"



N

2 ENLARGED PLUMBING FIRST FLOOR PLAN

1/4" = 1'-0"

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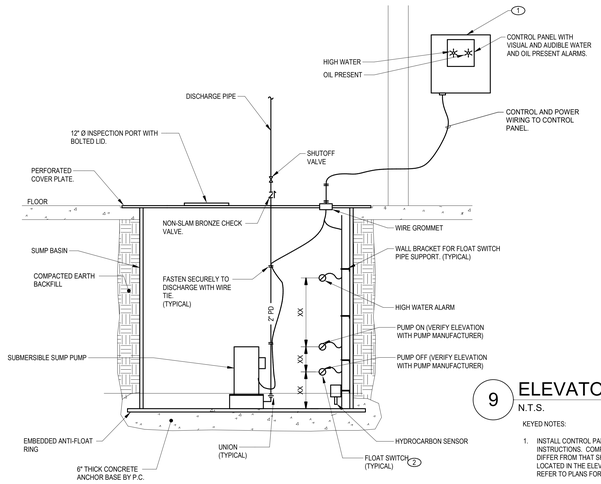
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PLUMBING 1ST & 2ND FLOOR ENLARGED VIEWS **PA401**

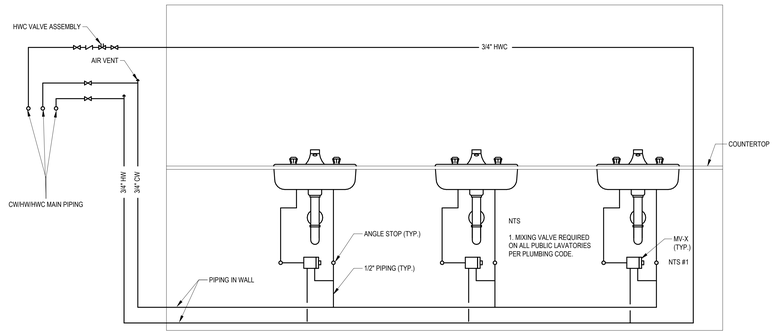


9 ELEVATOR SUMP PUMP

N.T.S.

KEYED NOTES:

1. INSTALL CONTROL PANEL PER MANUFACTURERS INSTRUCTIONS. COMPONENTS AND WIRING ARRANGEMENT MAY DIFFER FROM THAT SHOWN. CONTROL PANEL SHALL NOT BE LOCATED IN THE ELEVATOR MACHINE ROOM OR ELEVATOR PIT. REFER TO PLANS FOR LOCATION.
2. INSTALL ALL FLOATS & SENSORS PER MANUFACTURER'S REQUIREMENTS.

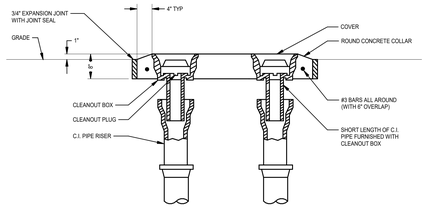


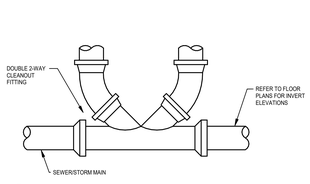
3 LAVATORY HOT WATER RECIRCULATING PIPING

N.T.S.

GENERAL NOTES:

1. HOT WATER DEAD LEG LENGTH FOR EACH FIXTURE SHALL NOT EXCEED 2'.



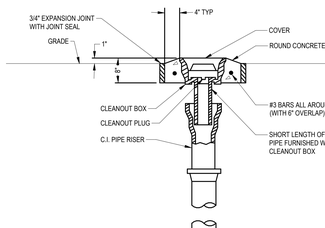


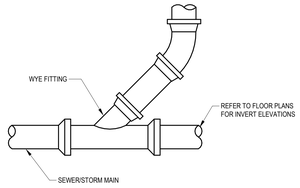
8 P - 2-WAY YARD CLEANOUT

N.T.S.

GENERAL NOTES:

1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.



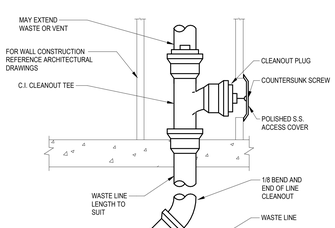


7 YARD CLEANOUT

N.T.S.

GENERAL NOTES:

1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.

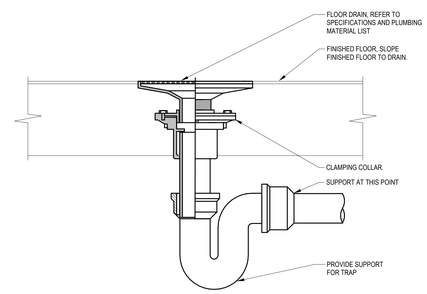


5 WALL CLEANOUT

N.T.S.

GENERAL NOTES:

1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.
2. INSTALL WALL CLEANOUTS IN ALL LOCATIONS SHOWN ON THE FLOOR PLANS.
3. INSTALL WALL CLEANOUTS IN DRAIN LINES AND RISERS SERVING ALL OF THE FOLLOWING PLUMBING FIXTURES:
   A. URINALS
   B. SINKS
4. COORDINATE ALL WALL CLEANOUT LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH IN.

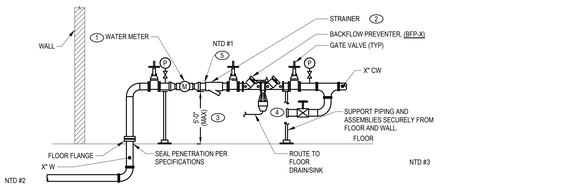


2 FLOOR DRAIN - ON GRADE

N.T.S.

GENERAL NOTES:

1. REFER TO PLUMBING MATERIAL LIST FOR SPECIFIC DRAIN OPTIONS & ACCESSORIES.



6 WATER SERVICE ENTRANCE - WM, BFP, IRRIGATION

N.T.S.

KEYED NOTES:

1. VERIFY METER SIZE, QUANTITY, & INSTALLATION REQUIREMENTS WITH UTILITY. PROVIDE & INSTALL REMOTE METERING EQUIPMENT WHEN REQUIRED. MAINTAIN UPSTREAM AND DOWNSTREAM PIPE DIAMETERS AS REQUIRED BY METER MANUFACTURER.
2. STRAINER MAY BE SUPPLIED INTEGRAL TO BACKFLOW PREVENTER ASSEMBLY.
3. INSTALL THE BACKFLOW PREVENTER ASSEMBLY AT A MINIMUM DISTANCE FROM THE FLOOR OF 12"
4. VALVE & CAP 2" WATER LINE FOR FUTURE IRRIGATION SYSTEM BACKFLOW PREVENTER.
5. PROVIDE 4" TEST TEE WITH GATE VALVE. PIPE TO AN APPROVED LOCATION ON THE OUTSIDE WALL OF THE BUILDING WITH POTABLE METALLIC PIPE FOR DES MOINES WATER WORKS METER TESTING REQUIREMENT.

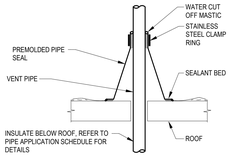
NOTE TO DESIGNER (NTD):

NTD #1 KEYED NOTE #4: DES MOINES WATER WORKS REQUIREMENT FOR 3" METERS AND ABOVE. DELETE KEYNOTE AND NOTE IF OUTSIDE CITY JURISDICTION.

NTD #2 COORDINATE WITH FOUNDATION DEPTHS. PROVIDE & NOTE SLEEVES THROUGH FOOTINGS ON PLAN. MAY NEED TO HAVE STRUCTURAL DEEPEN FOOTINGS TO PROVIDE SLEEVES. DELETE/MODIFY AS NEEDED IF EXISTING ENTRANCE PIPING OR FOR PROJECT SPECIFICS.

NTD #3 COORDINATE WITH FLOOR PLANS. EITHER OPTION SHOULD BE A 4" SAN PIPE.

NTD #4 COORDINATE SIZE WITH IRRIGATION CONTRACTOR. COORDINATE IRRIGATION CONTROL PANEL REQUIREMENTS. TYPICALLY CONTROL PANEL CANNOT BE IN THIS ROOM PER CODE. COORDINATE SPECIFIC IRRIGATION REQUIREMENTS WITH CITY OR LOCAL AHJ. TYPICALLY HAS DIFFERENT REQUIREMENTS FOR DEDUCT METERING.

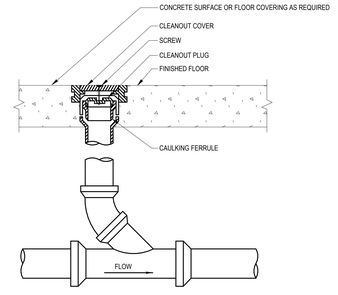


4 VENT THROUGH ROOF

N.T.S.

GENERAL NOTES:

1. PIPE SEAL SHALL BE COMPATIBLE WITH ROOFING SYSTEM.
2. THE MINIMUM PIPE SIZE FOR ALL ROOF PENETRATIONS SHALL BE 4"
3. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ALL OUTSIDE AIR INTAKES. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.



1 FLOOR CLEANOUT

N.T.S.

GENERAL NOTES:

1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.
2. INSTALL FLOOR CLEANOUTS IN ALL OF THE FOLLOWING LOCATIONS:
   A. ALL LOCATIONS SHOWN ON THE FLOOR PLANS
   B. IN ALL HORIZONTAL BRANCHES THAT ARE GREATER THAN 5'-0" IN LENGTH
   C. EVERY 100' OF DEVELOPED PIPING LENGTH
   D. EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135°.

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PROJECT NUMBER: 526381
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No.	Revisions

PROJECT NO.	2613
STATUS	BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
DRAWN BY	ADG

PLUMBING DETAILS **PA500**

PLUMBING CONNECTION SCHEDULE

	MINIMUM BRANCH SIZING				FIXTURE CONNECTION SIZE			
FIXTURE	CW	HW	SAN	VENT	CW	HW	SAN	NOTES
ELECTRIC WATER COOLER	1/2"	-	1 1/2"	1 1/4"	3/8"	-	1 1/4"	1, 2
FLOOR DRAIN/FLOOR SINK	-	-	2-3"	1 1/2"	-	-	2-3"	1
FLOOR DRAIN/FLOOR SINK	-	-	4"	2"	-	-	4"	
HOSE BIBB	3/4"	-	-	-	1/2"	-	-	
KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/4"	3/8"	3/8"	1 1/2"	1, 2
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	3/8"	3/8"	1 1/4"	1, 2
MOP BASIN	3/4"	3/4"	3"	1 1/2"	1/2"	1/2"	3"	1
URINAL	1"	-	2"	1 1/2"	3/4"	-	2"	
ICE MAKER WALL BOX	1/2"	-	-	-	1/2"	-	-	
WATER CLOSET	1"	-	4"	2"	1"	-	4"	

NOTES:
1. ALL BELOW GRADE SANITARY AND VENT PIPING SHALL BE A MINIMUM OF 2"
2. ALL SUPPLY PIPING SERVING MORE THAN A SINGLE FIXTURE SHALL HAVE A MINIMUM PIPE SIZE OF 3/4".

MISCELLANEOUS PLUMBING EQUIPMENT SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	SERVICE	SYMBOL					NOTES
				VOLT	PH	MOCP	DISCONNECT		
							BY	TYPE	
SPCP-1	SJE RHOMBUS	ELEVATOR SUMP PUMP CONTROL PANEL	SP-1	120	1	20	MFR	NON-FUSED	1, 2

NOTES:
1. ALL CONTROL CABINETS IN WET OR DAMP LOCATIONS TO BE NEMA 3 RATED.
2. PROVIDE CONTROL PANEL WITH PUMP FLOAT(S) AND HYDROCARBON SENSOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

CIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	PUMP SPEED	PUMP CONSTRUCTION		FLOWRATE PER PUMP (GPM)	HEAD (FT.)	ELECTRICAL				NOTES
					HOUSING	IMPELLER			HP	VOLT	PHASE	DISCONNECT BY	
CP-1	GRUNDFOS	UP 15-29 SU	INLINE	SINGLE SPEED	STAINLESS STEEL	COMPOSITE	2	8	1/8	115	1	E.C.	1, 2, 3

NOTES:
1. PROVIDE PUMP WITH IMMERSION TYPE AQUASTAT TEMPERATURE SENSOR FOR PUMP OPERATION. REFER TO WATER HEATER DETAIL FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. PROVIDE PUMP WITH FLANGED CONNECTIONS.
3. REFER TO DOMESTIC WATER PIPING DIAGRAM AND PUMP DETAILS FOR ADDITIONAL REQUIREMENTS.

WATER HEATER SCHEDULE (DOMESTIC)

MARK	MANUFACTURER	MODEL	FUEL	INPUT (MBH OR KW)	EFFICIENCY	GAS PRESSURE (IN. W.C.)	HW SETPOINT	WORKING PRESSURE	ASME RATED	ELECTRICAL				NOTES
			GAS OR ELECTRIC							HP	VOLT	PH	DISCONNECT BY	
GWH-1	RHEEM	RTGH-95	GAS	199.9	93%	-	140	150 PSI	NO	-	120	1	EC	1,2

NOTES:
1 PROVIDE CONCENTRIC VENT KIT.
2 PROVIDE CONDENSATE NEUTALIZATION KIT.

SUMP PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	FLOWRATE PER PUMP (GPM)	HEAD	RPM	ELECTRICAL					BASIN INFORMATION				NOTES
							HP	VOLT	PH	DISCONNECT BY	CONTROLLER BY	TYPE	COVER	DIAMETER (IN.)	DEPTH (IN.)	
SP-1	HYDROMATIC	SHEF50	SIMPLEX	50	30'	3,450	1/2	120	1	CORD & PLUG BY MFR	MFR	FIBERGLASS	PERFORATED	24	36	1, 2

NOTES:
1. PROVIDE WITH: PUMP REMOVAL CABLE, FLOAT SWITCH CONTROL.
2. PROVIDE PUMP WITH HYDROCARBON SENSOR AND ASSOCIATED WIRING AND CONTROLS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

PIPING APPLICATION SCHEDULE (PLUMBING)

SYSTEM (NOTE 1)	LOCATION	DESIGN WORKING PRESSURE (PSI)	MATERIAL	JOINTS	USAGE SIZE RANGE	INSULATION APPLICATION		NOTES
						THICKNESS (IN.)	TYPE (NOTES 2, 3)	
DOMESTIC COLD WATER	ABOVE GRADE	125	TYPE L COPPER	SOLDER OR MECHANICAL PRESS CONNECTION	1-1/4" OR LESS	1/2"	ELASTOMERIC FOAM OR FIBERGLASS	-
					1-1/2" & GREATER	1"		
			PEX	PEX EXPANSION	1-1/4" OR LESS	1/2"	ELASTOMERIC FOAM OR FIBERGLASS	7
					1-1/2" & GREATER	1"		
	BELOW GRADE	125	TYPE K COPPER	SOLDER	LESS THAN 3"	-	-	-
			DUCTILE IRON PRESSURE WATER PIPE	MECHANICAL OR PUSH-ON	3" & GREATER	-	-	6
DOMESTIC HOT WATER SUPPLY AND RECIRCULATING	ABOVE GRADE	125	TYPE L COPPER	SOLDER OR MECHANICAL PRESS CONNECTION	1-1/4" OR LESS	1"	ELASTOMERIC FOAM OR FIBERGLASS	-
					1-1/2" & GREATER	1-1/2"		
			PEX	PEX EXPANSION	1-1/4" OR LESS	1"	ELASTOMERIC FOAM OR FIBERGLASS	7
					1-1/2" & GREATER	1-1/2"		
SANITARY/VENT	BELOW GRADE	N/A	CAST IRON AND/OR SCH 40 PVC	BELL & SPIGOT, NO HUB, OR SOLVENT	ALL	-	-	-
	ABOVE GRADE (NON PLENUM)	N/A	CAST IRON, DWV COPPER, AND/OR SCH 40 PVC	BELL & SPIGOT, NO HUB, SOLDER, OR SOLVENT	ALL	1/2"	FIBERGLASS	4
	ABOVE GRADE (RETURN AIR PLENUM)	N/A	CAST IRON, DWV COPPER	BELL & SPIGOT, NO HUB, SOLDER	ALL	1/2"	FIBERGLASS	4
PLUMBING EQUIPMENT DRAINS	ABOVE GRADE (RETURN AIR PLENUM)	N/A	DWV COPPER	SOLDER	ALL	1"	FIBERGLASS	8
	ABOVE GRADE (NON-PLENUM)	N/A	DWV COPPER, AND/OR SCH 40 PVC	SOLDER, AND/OR SOLVENT	ALL	1"	FIBERGLASS	8
WATER HEATER INTAKE AND FLUE	ABOVE GRADE	N/A	SCH 40 CPVC	SOLVENT	ALL	1/2"	ELASTOMERIC FOAM	9

NOTES:
1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. SEE SPECIFICATION SECTION 230719 FOR COMPLETE INSULATION AND JACKETING REQUIREMENTS. ALL INSULATION SHALL BE PLENUM RATED MEETING ASTM E84 WHERE INSTALLED IN A RETURN AIR PLENUM.
3. INSTALL RIGID CALCIUM SILICATE INSERTS AT ALL PIPING HANGERS.
4. INSULATE ALL PLUMBING VENT PIPE WITHIN 10' OF ROOF PENETRATION.
5. INSULATE ALL ROOF DRAIN BODIES EXPOSED WITHIN BUILDING.
6. PIPE SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA STANDARDS. FITTINGS SHALL BE LONG RADIUS, 200 PSI RATED, CEMENT MORTAR LINED.
7. PEX PIPING SHALL ONLY BE ALLOWED FOR INDIVIDUAL FIXTURE DROPS. PEX PIPING SHALL NOT BE INSTALLED IN RATED WALLS.
8. INSULATION ONLY REQUIRED FOR COLD SERVICE PIPING. EQUIPMENT DRAIN PIPING LESS THAN 5' IN LENGTH NEED NOT BE INSULATED.
9. INSULATION REQUIRED FOR THE FIRST 10' OF PIPING FROM ROOF AND FOR HORIZONTAL PIPING INSTALLED FOR 7' IN A MECHANICAL ROOM.

LAVATORIES AND SINK SCHEDULE

MARK	ADA	MANUFACTURER (NOTE 1)		DESCRIPTION			FIXTURE DIMENSIONS (INCHES)					ELECTRICAL CONNECTION		NOTES
		FIXTURE	TRIM	FIXTURE	TRIM	ACCESSORIES	OVERALL		INSIDE BOWL			VOLTAGE	PHASE	
							SIDE TO SIDE	FRONT TO BACK	SIDE TO SIDE	FRONT TO BACK	DEPTH			
L-1	L-1A	ZURN Z-5340 SERIES	SLOAN SF-2300 SERIES	WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTER FAUCET HOLES. HOLES FOR CONCEALED ARM CARRIER. WALL SUPPORTED CONCEALED ARM CARRIER WITH PLATE SET SECURELY WITHIN WALL. PROVIDE ALL REQUIRED ACCESSORIES FOR INSTALLATION.	SENSOR ACTIVATED MIXING FAUCET, DOUBLE HOLE 4" CENTERS WITH DECK PLATE, 4" CHROME PLATED, CONVENTIONAL SPOUT WITH LAMINAR FLOW OUTLET. SOLID BRASS SOLENOID WITH BUILT-IN FILTER. UNDERCOUNTER SOLID BRASS MECHANICAL MIXING VALVE (WYE PATTERN STYLE NOT ACCEPTABLE) WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES. BATTERY POWERED WITH WATERPROOF CONNECTORS AND CABLE. CONTROLS AND BATTERIES TO BE LOCATED IN WATERPROOF, VANDAL-RESISTANT ENCLOSURE MOUNTED BELOW LAVATORY. UL APPROVED TRANSFORMER, 120 VAC INPUT, WITH WATERPROOF CONNECTORS AND CABLE. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. MAXIMUM FLOW TO BE 0.5 GPM. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS OR FLEXIBLE BRAIDED STAINLESS STEEL RISERS AND CHROME ESCUTCHEONS. PERFORATED DRAIN GRATE, CHROME-PLATED P-TRAP, [OFFSET] TAILPIECE AND ESCUTCHEON. PRE-MANUFACTURED, DURABLE, SINGLE-PIECE ENCLOSURE THAT CONCEALS PIPING, ELECTRONIC SENSOR CONNECTIONS, MIXING VALVES, TRAPS, INSTANTANEOUS WATER HEATERS, ETC. ENCLOSURE TO BE ADA-COMPLIANT. EQUAL TO TRUEBRO LAV SHIELD. PROVIDE WITH MV-1. INSTALL BELOW FIXTURE IN ACCESSIBLE LOCATION.	20	18 1/4	16 1/2	10 1/4	6 3/8	120	1	2
SK-1	SK-1A	JUST DL SERIES	DELTA 440 DST	STAINLESS STEEL DROP-IN SINK, DOUBLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304, SELF-RIMMING. COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET.	SINGLE HANDLE MIXING FAUCET FOR SINGLE HOLE SINK APPLICATIONS. SWIVEL SPOUT WITH 9" REACH & INTEGRAL ANTI-SIPHON DEVICE. HANDLE TO HAVE CERAMIC CARTRIGE CONTROL MECHANISM & RED/BLUE TEMPERATURE INDICATORS. DECK MOUNTED SPRAY ATTACHMENT, 45" LONG SPRAY HOSE. MAXIMUM FLOW TO BE 1.5 GPM. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	REMOVABLE STAINLESS STEEL BASKET STRAINER AND NEOPRENE STOPPER. QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS OR FLEXIBLE BRAIDED STAINLESS STEEL RISERS AND CHROME ESCUTCHEONS. CHROME-PLATED P-TRAP AND TAILPIECE AND ESCUTCHEON. PROVIDE WITH WALL CLEANOUT WCO-1 BELOW SINK.	43	22	19	16	7 5/8	-	-	3

NOTES:
1. SEE SPECIFICATIONS FOR LIST OF ACCEPTABLE MANUFACTURERS AND INSTALLATION REQUIREMENTS.
2. HARDWIRED DISCONNECT BY E.C.
3. VERIFY SINK DIMENSIONS WITH CASEWORK PRIOR TO ORDERING.

PLUMBING MATERIAL LIST

FIXTURE	ADA (NOTE 1)	MANUFACTURER (NOTE 2)	DESCRIPTION	ELECTRICAL CONNECTION (VOLT/PHASE/AMPS)	NOTES
AG-1	-	WATTS 909AG SERIES	FIXTURE: INLINE AIR GAP FITTING. PRESSURE FIT INLET FOR USE WITH STANDPIPE. FEMALE THREAD TO STANDPIPE.	-	-
BFP-1	-	WATTS 957	FIXTURE: REDUCED PRESSURE BACKFLOW PREVENTER, (2) INDEPENDANT SPRING LOADED CHECKS WITH A DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN THE CHECK VALVES, 304 STAINLESS STEEL HOUSING AND SLEEVE WITH LEAD FREE CONSTRUCTION. THE WETTED SURFACE OF THE BACKFLOW PREVENTER SHALL CONTAIN LESS THAN 0.25% LEAD BY WEIGHT. UNITS SHALL INCLUDE FOUR TEST COCKS WITH SHUT-OFF VALVES AND SHALL BE BACKFLOW TESTED AT THE FACTORY. RATED FOR 175 PSI AT 33 DEGREES F. TO 140 DEGREES F. MAXIMUM PRESSURE DROP 15 PSI AT 10 FPS REGARDLESS OF SIZE. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE. WITH RESILIENT SEATED GATE SHUTOFF VALVES ON BOTH SIDES OF UNIT AND AIR GAP DRAIN FITTING. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM FROM UNIT. APPROVED BY: USC FCCC & HR, AWWA C511-02, ASSE 1013, IAPMO AND SBCCI LISTED. UNIT SHALL BE SAME SIZE AS PIPE IF NO SIZE IS SHOWN ON THE DRAWING. ACCESSORIES: FLOOD PROTECTION SHUT DOWN VALVE. FULLY OPEN, ELECTRONICALLY ACTUATED GLOBE VALVE TO CLOSE BASED ON EXCESS FLOW THROUGH THE BFP DRAIN PIPE SYSTEM INCLUDES THE VALVE, CONTROL PANEL (120 V POWER CONNECTION) AND FLOW SENSOR. WATTS MODEL LFF113BFP OR PRIOR APPROVED EQUAL. PROVIDE WITH AIR GAP DRAIN FITTING EQUAL TO AG-1.	120V / SINGLE PHASE / 20 AMP	3
ET-1	-	THERM X-TROL ST-5	FIXTURE: EXPANSION TANK - WELDED STEEL CONSTRUCTION; WITH ASME STAMP, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS. ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. MINIMUM TANK VOLUME TO BE 2 GALLONS, MINIMUM ACCEPTING VOLUME TO BE 0.9 GALLONS. FACTORY PRE-CHARGED TO 40 PSIG. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. COORDINATE FIELD CHARGE PRESSURE WITH THE ACTUAL STATIC SYSTEM PRESSURE ADJACENT TO THE EXPANSION TANK CONNECTION.	-	-
EWC-1	EWC-1A	ELKAY EZH2O VR SERIES	FIXTURE: ELECTRIC WATER COOLER WITH INTEGRAL VANDAL RESISTANT BOTTLE FILLER WITH WATER FILTER - WALL HUNG, BI-LEVEL UNITS, PUSH BAR OR BUTTON OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, DRAIN & TRAP ASSEMBLY, 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS. STREAM PROJECTORS WITH PROTECTIVE HOODS. 7.8 GPH OF WATER FROM 80 DEGREES F. TO 50 DEGREES F. AT 90 DEGREES F. ROOM TEMPERATURE. TANK TESTED TO 125 PSIG. ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS. CORD AND PLUG. COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. EWC SHALL CONFORM TO ANSI A117.1-1986. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. ACCESSORIES: PROVIDE WITH 3 SPARE WATER FILTERS PER UNIT.	120V / SINGLE PHASE / 15 AMP	4
FCO-1	-	ZURN Z-1400	FIXTURE: FLOOR CLEANOUT - CAST IRON THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH PLUG AND SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP, TILE- ROUND RECESSED TOP, CARPET - ROUND TOP WITH CARPET MARKER.	-	-
FD-1	-	ZURN Z415 SERIES	FIXTURE: FLOOR DRAIN - 5" DIAMETER NICKEL BRONZE ADJUSTABLE TOP WITH SURFACE MEMBRANE CLAMP, 2" BOTTOM OUTLET, CAST IRON BODY WITH 1/2" TRAP PRIMER CONNECTION, FLASHING COLLAR, DEEP SEAL TRAP.	-	-
FD-2	-	ZURN Z415 SERIES	FIXTURE: FLOOR DRAIN - 6" DIAMETER NICKEL BRONZE ADJUSTABLE TOP WITH SURFACE MEMBRANE CLAMP, 4" BOTTOM OUTLET, CAST IRON BODY WITH 1/2" TRAP PRIMER CONNECTION, FLASHING COLLAR, DEEP SEAL TRAP.	-	-
FD-3	-	ZURN FD-2322	FIXTURE: 5" SHOWER FLOOR DRAIN - CHROME PLATED BRONZE GRATE ADJUSTABLE TOP, CAST IRON BODY WITH SURFACE MEMBRANE CLAMP, 2" BOTTOM OUTLET, FLASHING COLLAR, DEEP SEAL TRAP.	-	-
GD-1	-	INSINKERATOR BADGER 5	FIXTURE: GARBAGE DISPOSAL, 1/2 HP, 1-1/2" OUTLET CONNECTION, WALL SWITCH ON/OFF CONTROL, STAINLESS STEEL GRINDING ELEMENTS, PERMANENTLY LUBRICATED BEARINGS, AUTOMATIC RESET OVERLOAD PROTECTION, 5 YEAR MINIMUM WARRANTY.	120V / SINGLE PHASE / 20 AMP	4
HB-1	-	ACORN 8160 SERIES	FIXTURE: FREEZELESS WALL HYDRANT, CONCEALED TYPE WITH FLUSH MOUNTED WALL BOX WITH STANDARD FINISH, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, BRASS VALVE BODY AND SEAT, NON-FERROUS METAL STEM, STANDARD FINISH, WALL CLAMP. FURNISH TWO LOOSE KEY OPERATORS. ASSE 1019 APPROVED AND LISTED.	-	-
MB-1	-	FIAT MSB	FIXTURE: MOP BASIN - MOLDED STONE, 24"x24"x10", STAINLESS STEEL DRAIN WITH COMBINATION DOME STRAINER AND LINT BASKET, 3" OUTLET. DEEP SEAL TRAP. TRIM: TWO HANDLE EXPOSED MIXING FAUCET, COLOR INDEXED METAL CROSS HANDLES, POLISHED CHROME PLATED, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, INTEGRAL STOPS. EQUAL TO DELTA 2879. ACCESSORIES: STAINLESS STEEL BUMPER GUARD ON ALL OPEN SIDES. FRICTION HINGE MOP HANGER, HOSE, AND HOSE BRACKET. STAINLESS STEEL WALL GUARDS.	-	-
MV-1	-	POWERS LFLM495 SERIES	FIXTURE: UNDER-COUNTER THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL LEAD FREE BRONZE/BRASS CONSTRUCTION. TAMPER RESISTANT ADJUSTABLE TEMPERATURE CONTROL, UNION CONNECTIONS WITH INTEGRAL CHECKS AND STRAINERS. UNIT TO MIX 120 DEGREE F. HOT WATER SUPPLY AND 40 DEGREE F. COLD WATER SUPPLY FOR 110 DEGREE F. OUTLET AT 0.5 GPM MINIMUM. SHALL CONFORM TO THE REQUIREMENTS OF ASSE 1070. ACCESSORIES: PROVIDE SURFACE MOUNTED STAINLESS STEEL CABINET WITH LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. CONFIGURATION OF VALVE AND BOX SHALL BE AS INDICATED ON THE PLANS.	-	-
SH-1	-	INPRO DSTRSHR36	FIXTURE: SHOWER BASE - SOLID SURFACE, INTERIOR DIMENSIONS OF 36"x36". SLIP-RESISTANT FLOOR, ADA COMPLIANT. WALLS OF SHOWER BY OTHERS. SEE ARCHITECT SPECIFICATION SECTION 102116. TRIM: SEE SHV-1. DRAIN: SEE FD-3. CENTER DRAIN LOCATION. ACCESSORIES: 1" OD 18 GAUGE TYPE 304 STAINLESS STEEL CURTAIN ROD (INSTALLED AS HIGH AS POSSIBLE) WITH COMMERCIAL GRADE VINYL SHOWER CURTAIN.	-	-
SHV-1	-	POWERS E700 SERIES	FIXTURE: THERMOSTATIC & PRESSURE (T&P) BALANCED MIXING SHOWER VALVE - BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, CHROME PLATED METAL SINGLE LEVER CONTROL WITH OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, INTEGRAL CHECK-STOPS, ADJUSTABLE SAFETY LIMIT STOP SET TO 110 DEGREES F DISCHARGE. ASSE 1016-T-P LISTED. ACCESSORIES: FIXED, CHROME PLATED BRASS SHOWER HEAD WITH PIVOT BALL JOINT. PROVIDE WITH CHROME PLATED BRASS ARM AND FLANGE KIT FOR CONNECTION TO WATER SUPPLY. MAXIMUM FLOW TO BE 2.5 GPM. ADJUSTABLE SPRAY HAND-HELD SHOWER WITH SEPARATE DIVERTER VALVE, 60" METAL HOSE WITH QUICK DISCONNECT AND IN-LINE VACUUM BREAKER, SWIVEL CONNECTOR TO 24" CHROME PLATED MOUNTING SLIDE BAR. PROVIDE CHROME PLATED BRASS SUPPLY ELBOW FLANGE FOR HOSE CONNECTION TO WATER SUPPLY.	-	-
UR-1	UR-1A	ZURN Z5750	FIXTURE: URINAL - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, WASHOUT, WATER SAVING 1.0 GALLON PER FLUSH, 3/4" [BACK][TOP] SPUD, 2" OUTLET, ELONGATED RIM AND EXTENDED SIDE SHIELDS. TRIM: FLUSH VALVE - EXPOSED, SENSOR OPERATED, WITH OVER-RIDE, HARDWIRED, 120VAC TO 24VAC TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, RANGE ADJUSTMENT SCREW CHROME PLATED 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE, VACUUM BREAKER, WALL AND SPUD FLANGES, 1.0 GALLONS PER FLUSH. 3 YEAR WARRANTY. FLOOR MOUNTED CARRIER AND ACCESSORIES TO MATCH INSTALLATION REQUIREMENTS. EQUAL TO ZURN Z6000 SERIES. ACCESSORIES: PROVIDE WITH WALL CLEANOUT WCO-1.	120V / SINGLE PHASE / 20 AMP	3
WHA-#	-	ZURN 1260XL	FIXTURE: WATER HAMMER ARRESTOR. METAL BODY AND CONNECTIONS. PISTON-TYPE WHERE WATER IS NOT IN DIRECT CONTACT WITH AIR, AND AIR IS PERMANENTLY SEALED WITHIN CHAMBER. ALL WETTED COMPONENTS SHALL BE LEAD FREE COMPLIANT. UNIT SHALL MEET REQUIREMENTS OF ASSE 1010. SIZE AS FOLLOWS - # (FIXTURE UNITS RANGE): 1 (1-11 SFU), 2 (12-32 SFU), 3 (33-60 SFU), 4 (61-113 SFU), 5 (114-154), 6 (155-330). NUMBER ON PLAN DENOTES SIZE.	-	-
WB-1	-	GUY GRAY M8 SERIES	FIXTURE: WALL BOX - WHITE POWDER COATED 20 GA STEEL ENCLOSURE WITH HINGED COVER, ONE QUARTER-TURN ANGLE VALVE. COORDINATE OUTLET TYPE AND SIZE WITH EQUIPMENT SERVED. ACCESSORIES: INSTALL WALL BOX BELOW COUNTER BEHIND CABINETRY. ROUTE CW LINE UP THROUGH COUNTERTOP AND PROVIDE RUBBER GROMMET.	-	-
WB-2	-	GUY GRAY RMDW SERIES	FIXTURE: WALL BOX - WHITE POWDER COATED 20 GA STEEL ENCLOSURE WITH HINGED COVER, ONE QUARTER-TURN ANGLE VALVE, INTEGRAL WATER HAMMER ARRESTOR AND DRAIN PORT. COORDINATE OUTLET TYPE AND SIZE WITH EQUIPMENT SERVED. ACCESSORIES: PROVIDE WITH AIR GAP ON WASTE CONNECTION.	-	-
WC-1	WC-1A	ZURN Z-5615 SERIES	FIXTURE: WATER CLOSET - WALL HUNG, WHITE VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD. TRIM: FLUSH VALVE - EXPOSED, SENSOR OPERATED, WITH OVER-RIDE, HARDWIRED, 120VAC TO 24VAC TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, RANGE ADJUSTMENT SCREW CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, [BEDPAN WASHER,] VACUUM BREAKER, WALL AND SPUD FLANGES, 1.6 GALLONS PER FLUSH. 3 YEAR WARRANTY. EQUAL TO ZURN Z6200 (AUTOMATIC). ACCESSORIES: WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC SELF-SUSTAINING SEAT WITH CHECK HINGE AND STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CLOSET CARRIER (COMBINATION CHAIR CARRIER AND DRAINAGE FITTING) AND ACCESSORIES TO MATCH INSTALLATION REQUIREMENTS.	120V / SINGLE PHASE / 20 AMP	3
WCO-1	-	ZURN Z-1446	FIXTURE: WALL CLEANOUTS SHALL HAVE CAST IRON ACCESS BODY, GAS AND WATERTIGHT THREADED PLUG, ROUND [POLISHED BRASS][STAINLESS STEEL] ACCESS COVER AND EXTENDED MACHINE SCREW.	-	-
YCO-1	-	ZURN Z-1474	FIXTURE: 2-WAY YARD CLEANOUT - TWO ROUND DURA-COATED CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSINGS, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVERS WITH LIFTING DEVICE. BRONZE CLEANOUT PLUGS AND GAS/WATERTIGHT SEALS. PROVIDE WITH A DOUBLE, 2-WAY CLEANOUT FITTING. REFER TO YARD CLEANOUT DETAIL FOR ADDITIONAL INFORMATION. SIZE AS LISTED ON PLANS.	-	-

NOTES:
1. FIXTURE TO BE ADA COMPLIANT AND INSTALLED AT ADA HEIGHT. COORDINATE REQUIRED LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. SEE SPECIFICATIONS FOR LIST OF ACCEPTABLE MANUFACTURERS AND INSTALLATION REQUIREMENTS.
3. HARDWIRED DISCONNECT BY E.C.
4. CORD & PLUG DISCONNECT BY MFR.

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Revisions

PROJECT NO. 2613
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DRAWN BY ADG

PLUMBING SCHEDULES **PA600**

ABBREVIATIONS

▲T	TEMPERATURE DIFFERENCE	LB	POUND
Ø	ROUND	LB/HR	POUNDS PER HOUR
ABV	ABOVE	LD	LINEAR DIFFUSER
AC	AIR CONDITIONING	LP	LOW PRESSURE
AD	AREA DRAIN	LP	LIQUEFIED PETROLEUM GAS
ADD	ADDENDUM	LVR	LOUVER
A/E	ARCHITECT / ENGINEER	LWT	LEAVING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	MA	MIXED AIR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MAX	MAXIMUM
ALT	ALTERNATE	MBH	ONE THOUSAND BTU PER HOUR
AP	ACCESS PANEL	M.C.	MECHANICAL CONTRACTOR
ARCH	ARCHITECTIARCHITECTURAL	MD	MOTORIZED DAMPER
BAS	BUILDING AUTOMATION SYSTEM	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS	MP	MEDIUM PRESSURE
BTUH	BRITISH THERMAL UNITS PER HOUR	MTR	MOTOR
CAP	CAPACITY	MUA	MAKE-UP/AIR
CB	CATCH BASIN	NC	NOISE CRITERIA
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CFH	CUBIC FEET PER HOUR	NG	NATURAL GAS
CLG	CEILING	NO	NUMBER
C.M	CONSTRUCTION MANAGER	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CV	CONTROL VALVE	O	OXYGEN
CW	COLD WATER	OA	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROLS	PIV	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DEIONIZED WATER	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
E.C.	ELECTRICAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
EA	EXHAUST AIR	RD	ROOF DRAIN
EG	EXHAUST GRILLE	REC	RECESSED
EXIST	EXISTING	RED	REDUCER
F	DEGREES FAHRENHEIT	RG	RETURN GRILLE
FCO	FLOOR CLEAN OUT	RH	RELATIVE HUMIDITY
FD	FLOOR DRAIN	RLA	RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	SA	SUPPLY AIR
FOV	FUEL OIL VENT	SAN	SANITARY
FOR	FUEL OIL RETURN	SD	SMOKE DAMPER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPC	FIRE PROTECTION CONTRACTOR	SG	SUPPLY GRILLE
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FS	FLOOR SINK	SP	STATIC PRESSURE
FT	FOOT/FEET	SR	SUPPLY REGISTER
FTR	FIN TUBE RADIATION	STM	STEAM
GAL	GALLON	T	THERMOSTAT
GF	GAS-FIRED	T.C.	TEMP CONTROLS CONTRACTOR
G.C.	GENERAL CONTRACTOR	TD	TEMPERATURE DROP
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GW	GREASE WASTE	TEMP	TEMPERATURE
HB	HOSE BIBB	TYP	TYPICAL
HP	HORSE POWER	UG	UNDERGROUND
HP	HIGH PRESSURE	VAC	VACUUM
HTG	HEATING	V	VENT
HTR	HEATER	VAV	VARIABLE AIR VOLUME
HW	HOT WATER	VENT	VENTILATION
HYD	HYDRANT	VTR	VENT THROUGH ROOF
ID	INDIRECT DRAIN	W	WASTE
IN	INCH	WB	WET BULB
I.E.	INVERT ELEVATION	WCO	WALL CLEAN OUT
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR	WH	WALL HYDRANT
LAT	LEAVING AIR TEMPERATURE	YCO	YARD CLEANOUT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ERV	ENERGY RECOVERY VENTILATOR
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
BCU	BLOWER COIL UNIT	GRV	GRAVITY ROOF VENTILATOR
CH	CHILLER	HP	HEAT PUMP
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	P	PUMP
CP	CONDENSER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RF	RETURN FAN
DC	DUCT MOUNTED COIL	RHC	REHEAT COIL
CP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
ET	EXPANSION TANK	WH	WATER HEATER

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL SUBSEQUENT SHEETS IN SHEET LIST. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- KEYNOTE SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room Name / Number — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT
- MARK — SCHEDULED EQUIPMENT (UNDERLINED)
- MARK — NONSCHEDULED EQUIPMENT
- (E) MARK — EXISTING EQUIPMENT - HALFTONE - (E) PREFIX
- (R) MARK — EXISTING RELOCATED EQUIPMENT - (R) PREFIX

DUCTWORK SYMBOLS

- 24/12 — RECT. DUCT SIZE (WIDTH / HEIGHT)
- 18Ø — ROUND DUCT SIZE (DIAMETER)
- 18/12Ø SUPPLY AIR — OVAL DUCT SIZE (WIDTH / HEIGHT)
- 18/12 — EXISTING DUCT TO REMAIN
- 18/12 — DUCT TO BE DEMOLISHED
- SA — SUPPLY AIR
- RA — RETURN AIR
- EA — EXHAUST AIR
- OA — OUTSIDE AIR
- FLUE — FLUE GAS VENT
- CA — COMBUSTION AIR
- RECT. SUPPLY DUCT RISE / DROP
- ROUND SUPPLY DUCT RISE / DROP
- RECT. RETURN DUCT RISE / DROP
- ROUND RETURN DUCT RISE / DROP
- RECT. EXHAUST DUCT RISE / DROP
- ROUND EXHAUST DUCT RISE / DROP
- FLEXIBLE DUCTWORK

AIR TERMINALS

- SUPPLY GRILLE, REGISTER, DIFFUSER
- RETURN GRILLE, REGISTER, DIFFUSER
- EXHAUST GRILLE, REGISTER, DIFFUSER
- DIFFUSER CALLOUT SYMBOL: NECK SIZE — CD-1 / EXH 15 — MARK; CFM — 100 — SLOT QT. (IF APPLICABLE)

DAMPER TYPES

- MANUAL DAMPER
- (M) MOTORIZED DAMPER
- (B) BACKDRAFT DAMPER
- (S) SMOKE DAMPER
- (F) FIRE DAMPER
- (C) COMB. FIRE/ SMOKE DAMPER

MECHANICAL PIPING SYMBOLS

- 2" — NOMINAL PIPE SIZE
- 2" CHWS — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- BD — BOILER BLOW DOWN
- BFW — BOILER FEED-WATER
- CHWS — CHILLED-WATER SUPPLY
- CHWR — CHILLED-WATER RETURN
- CWS — CONDENSER-WATER SUPPLY
- CWR — CONDENSER-WATER RETURN
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- GLS — GEOTHERMAL LOOP SUPPLY
- GLR — GEOTHERMAL LOOP RETURN
- HWS — HOT-WATER SUPPLY
- HWR — HOT-WATER RETURN
- RL — REFRIGERANT LINESET
- LPS — LOW PRESSURE STEAM SUPPLY
- LPR — LOW PRESSURE STEAM RETURN
- MPS — MEDIUM PRESSURE STEAM SUPPLY
- MPR — MEDIUM PRESSURE STEAM RETURN
- HPS — HIGH PRESSURE STEAM SUPPLY
- HPR — HIGH PRESSURE STEAM SUPPLY
- NG — NATURAL GAS
- LP — LIQUID PROPANE
- D — CONDENSATE DRAIN

PIPE FITTINGS

- PIPE RISE / DROP
- PIPE ELBOW
- PIPE TEE HORIZONTAL / RISER / DROP
- PIPE CAP / CONTINUATION

PIPE ACCESSORIES

- BALANCING VALVE
- BALL VALVE
- GATE VALVE
- GENERIC ISOLATION VALVE
- PRESSURE REDUCING VALVE
- 2-WAY ELEC. CONTROL VALVE
- 3-WAY ELEC. CONTROL VALVE
- FLOW SENSOR
- PRESSURE SENSOR
- TEMPERATURE SENSOR & WELL
- INLINE SENSOR
- FLEXIBLE CONNECTOR
- PRESSURE GAUGE
- UNION
- STRAINER
- ANGLE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GAS METER
- INLINE PUMP
- HOSE BIBB/ HYDRANT
- P/T PORT
- AIR VENT
- PRESSURE RELIEF
- STEAM TRAP
- THERMOMETER

DATA DEVICES

- THERMOSTAT
- HUMIDISTAT
- TEMPERATURE & HUMIDITY DETECTOR
- TEMPERATURE & CO2 DETECTOR
- GENERIC DETECTOR
- DDC SENSOR. SEE ABBREVIATIONS LIST

GENERAL NOTES - FUEL GAS

1. ALL FUEL GAS WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION:
   - NFPA 54 -NATIONAL FUEL GAS CODE
   - 2023 FLORIDA BUILDING CODE - FUEL GAS
   - LOCAL CODES, INCLUDING ALL AMENDMENTS AND ORDINANCES
2. NATURAL GAS SERVICE, METER AND UTILITY REGULATOR SHALL BE PROVIDED AND INSTALLED BY THE GAS UTILITY COMPANY, PAID FOR BY THE OWNER.
3. TEST AND PURGE NATURAL GAS PIPING PER NFPA 54 RECOMMENDATIONS.
4. PROVIDE GAS PIPING TO EQUIPMENT AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
5. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT. FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE "WHEN ALLOWED BY CODE", AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE IF GAS PRESSURE GREATER THAN 10" WC IS ISSED DOWNSTREAM FROM THE GAS METER.
6. NATURAL GAS PIPING INSTALLED BELOW FLOOR SHALL BE INSTALLED IN CONDUIT AND VENTED PER NFPA 54 REQUIREMENTS.
7. EMERGENCY GAS SOLENOID VALVES SHALL BE WIRED TO BE POWER OPEN/FAIL CLOSED.
8. VENT ALL REGULATORS PER FUEL GAS CODE REQUIREMENTS, EITHER TO THE BUILDING EXTERIOR OR BY PROVIDING VENT LIMITING DEVICES APPROVED FOR INDOOR LOCATIONS.

GENERAL NOTES - MECHANICAL

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY MOST CURRENT INTERNATIONAL MECHANICAL CODE AND ANY APPLICABLE LOCAL CODES. PROVIDE CLEARANCE FOR INSPECTION, REPAIR, REPLACEMENT, AND SERVICE TO ALL EQUIPMENT TO INCLUDE A MINIMUM OF 36 INCHES FROM ALL OBSTRUCTIONS (WALLS, STRUCTURE, DUCTWORK, PIPES, ETC.). CLEARANCE SHALL MAINTAIN ACCESS TO ALL ELECTRICAL PANELS, ACCESS DOORS, CONTROLLERS, VALVES, JUNCTION BOXES AND OPERATORS AND INCLUDE THE AREA DIRECTLY IN FRONT OF AND ABOVE THE SYSTEM COMPONENTS. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, FLANGES, ACCESSORIES, AND OTHER APPARATUS REQUIRING ACCESS ARE ACCESSIBLE.
2. MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE THE DRAWINGS OF OTHER TRADES PRIOR TO BIDDING TO THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE SCOPE OF THE PROJECT. FAILURE TO DO SO DOES NOT RELIEVE THE MECHANICAL CONTRACTOR OF THE RESPONSIBILITY TO UNDERSTAND THE SCOPE OR OF UNDERSTANDING ANY FIELD CONDITIONS WHICH COULD BE REASONABLY EXPECTED TO BE KNOWN BY A THOROUGH INVESTIGATION.
3. DRAWINGS ARE DIAGRAMMATICAL IN NATURE. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY DUCT, FITTING, TRANSITION, DAMPER, ETC., AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE PROPER INSTALLATION ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS, LOCAL CODES AND STANDARD PRACTICES SHALL BE PROVIDED. MECHANICAL CONTRACTOR TO PROVIDE ALL DUCTWORK TRANSITIONS, FLEXIBLE CONNECTIONS, AND ACCESSORIES AS REQUIRED. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION. REPORT ANY PROBLEMS OR CONFLICTS TO THE OWNER OR ENGINEER.
4. ANY MINOR CHANGES IN THE LOCATION OF EQUIPMENT, DUCTS, PIPE CONTROL DEVICES, ETC., FROM THOSE LOCATIONS SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT EXTRA COST IF SO DIRECTED BY THE OWNERS REPRESENTATIVE OR ENGINEER BEFORE THE INSTALLATION IS MADE. A MINOR CHANGE IN LOCATION SHALL BE CONSIDERED TO BE WITHIN 6'-0" OF THE ORIGINALLY INDICATED LOCATIONS.
5. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
6. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
7. INSTALL SYSTEMS, MATERIALS AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS WHERE INSTALLED EXPOSED IN FINISHED SPACES AND GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.
8. INSTALL ALL HVAC EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
9. ALL OPENINGS IN FIRE-RATED AND SMOKE-RATED WALLS DUE TO DUCTWORK, PIPING AND CONTROL CONDUIT SHALL BE FIRE-STOPPED WITH AN APPROVED FIRE STOP MATERIAL. COORDINATE INSTALLATION WITH ARCHITECTURAL CODE PLANS.
10. PROVIDE ACCESS DOORS IN DUCTWORK OR WALLS/CEILING FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, COILS AND MECHANICAL EQUIPMENT. COILS LOCATED IN DUCTWORK TO BE PROVIDED WITH ACCESS DOORS ON OUTLET SIDE OF COIL.
11. LOCATIONS AND SIZES OF ALL FLOOR, CEILING AND WALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED AND THE OWNER.
12. MECHANICAL CONTRACTOR SHALL COORDINATE CEILING DIFFUSER/GRILLE/REGISTER LOCATIONS WITH LIGHTING, FIRE ALARM EQUIPMENT AND FIRE SUPPRESSION SYSTEMS.
13. MECHANICAL CONTRACTOR SHALL PROVIDE MANUAL BALANCE DAMPERS IN ALL BRANCH TAKE-OFFS TO SUPPLY DIFFUSERS. PROVIDE ADDITIONAL MANUAL BALANCE DAMPERS IN MAIN AND SUB-MAIN DUCTS AS REQUIRED TO ENSURE THE SUPPLY AND RETURN AIR SYSTEMS CAN BE BALANCED TO THE SPECIFIED DESIGN AIRFLOW.
14. IN AREAS WHERE A CEILING AND GRID EXISTS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF EXISTING CEILING GRID AND TILES AS NECESSARY FOR INSTALLATION OF VENTILATING WORK. ANY PORTION OF THE EXISTING TILES OR GRID WHICH BECOME DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE MECHANICAL CONTRACTOR.
15. DO NOT ROUTE DUCT OR PIPING ABOVE OR BELOW ELECTRICAL PANELS INCLUDING SERVICE CLEARANCES.
16. ALL RECTANGULAR AND/OR ROUND SUPPLY AND RETURN DUCTWORK SHOWN ON THE PLANS MAY BE CONVERTED TO EQUIVALENT ROUND/RECTANGULAR DUCTWORK AT THE DISCRETION OF THE MECHANICAL CONTRACTOR. ANY DUCT CONVERSIONS SHALL BE SUBMITTED AS PART OF THE DUCTWORK SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER.
17. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING METHODS OF BRINGING IN MECHANICAL EQUIPMENT THROUGH BUILDING INTO MECHANICAL ROOMS.
18. PIPING SHALL NOT BE SUPPORTED FROM OTHER PIPING, CONDUIT, OR DUCTWORK.
19. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL. CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
20. COORDINATE PIPE ROUTING TO AVOID RUNNING PIPING BELOW ROOF HATCHES, SKYLIGHTS AND ACCESS PANELS.
21. ALL CONTROL WIRING ROUTED EXPOSED IN SPACES SUCH AS MECHANICAL ROOMS OR ABOVE HARD CEILINGS SHALL BE ROUTED IN CONDUIT. CONTROL WIRING ROUTED ABOVE ACCESSIBLE CEILINGS IS NOT REQUIRED TO BE RUN IN CONDUIT, BUT SHOULD BE SECURELY STRAPPED TO PERMANENT SUPPORTS FOR A CLEAN INSTALLATION.
22. ALL THERMOSTATS SHALL BE MOUNTED AT SAME ELEVATION AS ADJACENT LIGHT SWITCHES UNLESS NOTED OTHERWISE.

MECHANICAL SHEET INDEX

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MA500	MECHANICAL DETAILS
MA600	MECHANICAL SCHEDULES
MA601	MECHANICAL SCHEDULES

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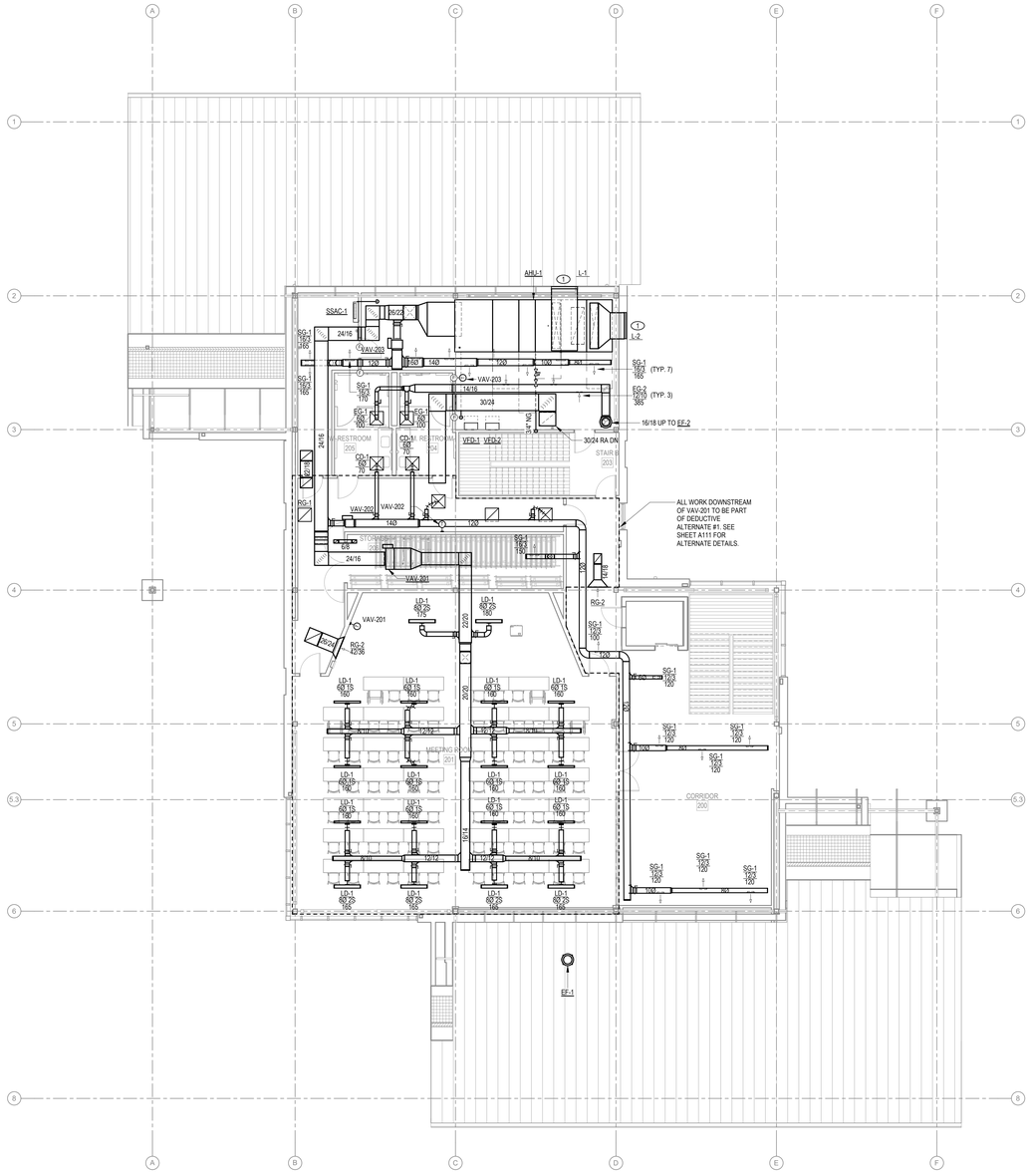
PROJECT NO.	2613
STATUS	BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
DRAWN BY	ADG

Revisions

MECHANICAL COVER PAGE MA000

KEYED NOTES:

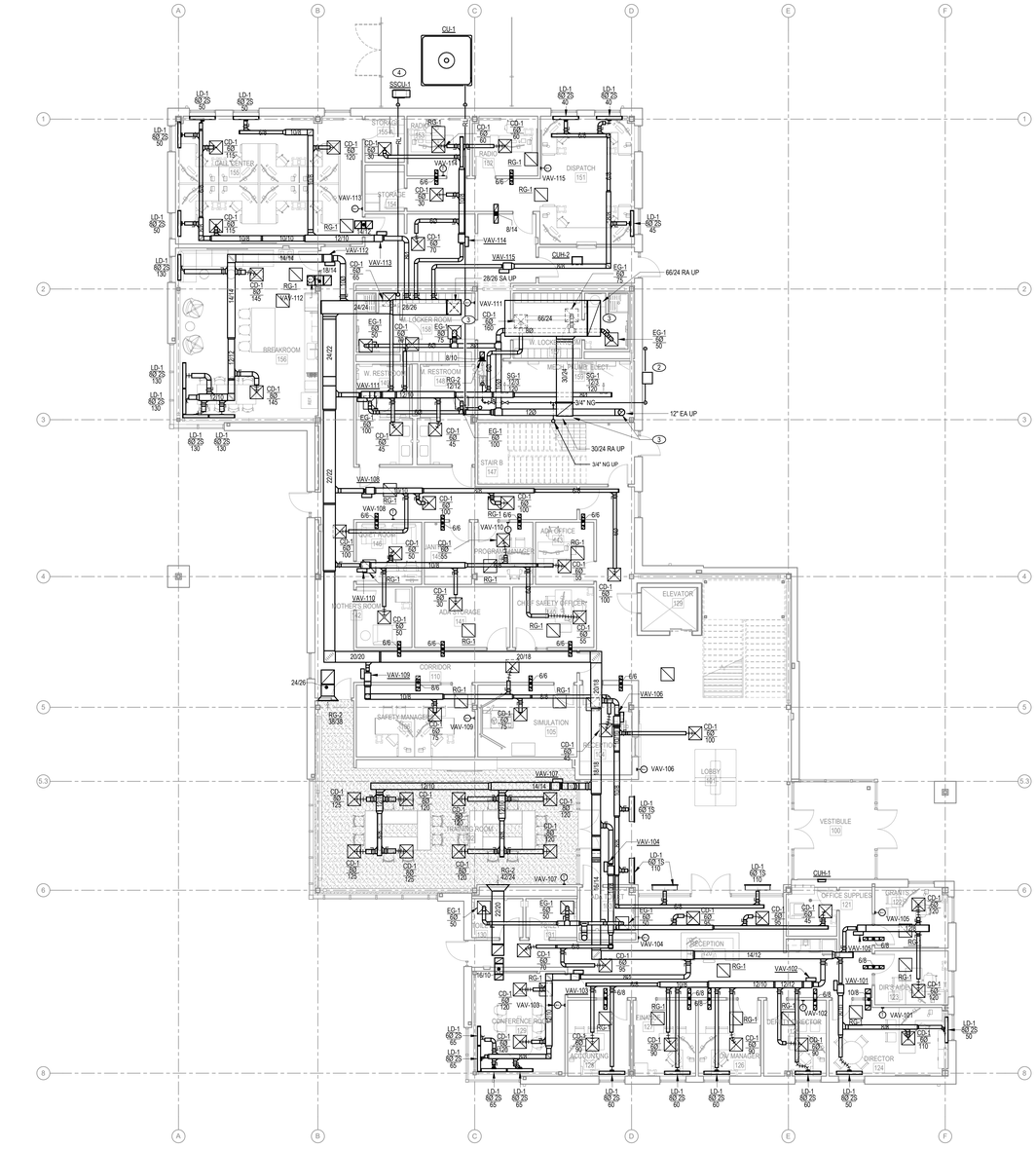
1. COORDINATE LOUVER PLACEMENT WITH EXTERIOR METAL PANELS TO MATCH VERTICAL PANEL.
2. COORDINATE WITH LOCAL UTILITY TO PROVIDE GAS METER AND REGULATOR. PROVIDE 2 PSI GAS. SEE CIVIL FOR PIPE CONTINUATION BELOW GRADE.
3. ADD FIRE DAMPER TO DUCT AT CEILING PENETRATION TO SECOND FLOOR MECHANICAL ROOM.
4. PROVIDE PLASTIC PAD A MINIMUM OF 4 INCHES THICK FOR CONDENSING UNIT TO BE INSTALLED ON. PAD TO BE 6 INCHES WIDER AND LONGER THAN CONDENSING UNIT IN ALL DIRECTIONS.



N

1 MECHANICAL SECOND FLOOR PLAN

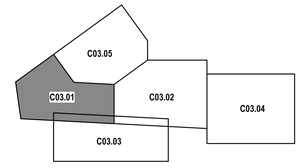
1/8" = 1'-0"



N

2 MECHANICAL FIRST FLOOR PLAN

1/8" = 1'-0"



KEY MAP

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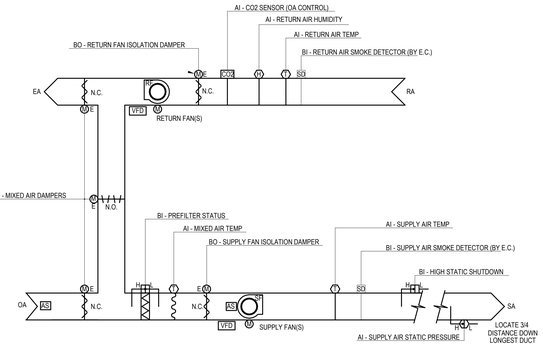
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MECHANICAL 1ST & 2ND FLOOR PLAN **MA100**



11 AIR HANDLING UNIT CONTROLS DIAGRAM
N.T.S.

GENERAL NOTES:
1. ATC TO PROVIDE ALL CONTROLS ACCESSORIES AND SENSORS.

CONTROL SEQUENCE:

RUN CONDITIONS - REQUESTED:
THE UNIT SHALL RUN CONTINUOUSLY WHEN THE UNIT IS IN THE OCCUPIED MODE. THE UNIT SHALL CYCLE ON/OFF WHEN THE UNIT IS IN AN UNOCCUPIED MODE. THE UNIT SHALL SHUT DOWN IF OVERRIDDEN TO DO SO OR AN ALARM SHUTS DOWN THE UNIT.

IF THE UNIT IS COMMANDED TO BE SHUT DOWN OR IF IT IS SHUT DOWN BASED ON AN ALARM (FIRE ALARM, FREEZESTAT, POWER LOSS, ETC.) THE FANS SHALL SHUT DOWN AND ALL DAMPERS & VALVES SHALL FAIL TO THEIR NORMALLY CLOSED POSITION.

THE UNIT SHALL GO THROUGH A STARTUP SEQUENCE AFTER ANY OF THE FOLLOWING CONDITIONS:
- UNIT IS COMMANDED TO RESTART
- ALARM IS RESET
- POWER IS RESTORED

THE FOLLOWING SHALL OCCUR DURING UNIT STARTUP:
- OUTDOOR AIR / RETURN AIR / RELIEF AIR DAMPERS SHALL MODULATE TO THE REQUIRED POSITION.
- SUPPLY & RETURN FANS SHALL RAMP UP TO THE DESIRED SPEED VIA THE VARIABLE FREQUENCY DRIVE. RAMP UP TIME FROM 0 - 60 HZ SHALL BE 60 SEC. (ADJ.)

AHU OPTIMAL START:
THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGE IN OUTSIDE AIR TEMPERATURE & ZONE TEMPERATURES. OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL REMAINED CLOSED. RETURN AIR DAMPER SHALL BE OPEN. STAGGER START TIMES FOR SYSTEMS WITH MULTIPLE UNITS.

HIGH STATIC SHUTDOWN (SUPPLY):
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL.

LOW STATIC SHUTDOWN (RETURN):
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A LOW STATIC SHUTDOWN SIGNAL.

RETURN AIR SMOKE DETECTION (BY E.C.):
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

SUPPLY AIR SMOKE DETECTION (BY E.C.)
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

UNIT LEVEL SMOKE DETECTED:
- IF SMOKE IS DETECTED AT THE AIR HANDLING UNIT LEVEL DETECTORS THE UNIT WILL BE SHUT DOWN.
- THE FIRE ALARM PANEL WILL SEND A SIGNAL TO SHUT DOWN THE UNIT VARIABLE FREQUENCY DRIVES.
- THE FIRE ALARM WILL SEND AN ALARM TO THE DDC SYSTEM TO SHUT DOWN THE AIR HANDLING UNIT.
- THE OUTSIDE AIR DAMPER AND THE EXHAUST AIR DAMPER WILL CLOSE TO PREVENT A COIL FROM FREEZING IN THE EVENT OF A PROLONGED OUTAGE.
- THE BUILDING HEATING AND COOLING PLANTS WILL CONTINUE TO OPERATE.

SUPPLY FAN
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. ISOLATION DAMPERS SHALL CLOSE UPON FAN FAILURE OR BY MANUAL ACTIVATION IF FAN STATUS IS PROVEN OFF.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

SUPPLY AIR DUCT STATIC PRESSURE CONTROL: (ALL)
- THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.). THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED ON ZONE COOLING REQUIREMENTS.
  - THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5 IN H2O (ADJ.)
  - AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 2.5 IN H2O (ADJ.). THE CONTROL SYSTEM SHALL DETERMINE THE ZONE REQUIRING THE MOST STATIC PRESSURE AND OPEN THAT ZONE DAMPER TO APPROXIMATELY 90%. THE FAN SPEED SHALL ADJUST UNTIL THIS ZONE IS SATISFIED. AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.25 IN H2O (ADJ.).

A HIGH STATIC SENSOR SHALL BE INSTALLED IN THE SUPPLY DUCT MAIN. A LOW STATIC SENSOR SHALL BE INSTALLED IN THE RETURN DUCT MAIN. THESE SENSORS SHALL BE HARDWIRED TO SHUT DOWN THE RESPECTIVE FANS IF THE SENSOR REACHES THE DUCTWORK'S RESPECTIVE PRESSURE CLASS. AN ALARM SHALL BE SENT TO DDC.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
- SUPPLY FAN VFD FAULT.

THE CRITICAL VAV BOX (THE CONTROLLING ZONE) SETTING/RESETTING THE DUCT STATIC PRESSURE SETPOINT MUST BE DISPLAYED ON THE WORKSTATION GRAPHIC. DURING STARTUP OF THE BUILDING, THE CONTROLS TECHNICIAN MUST TEST AND VERIFY THE SUPPLY DUCT STATIC PRESSURE CONTROL SEQUENCE. THIS IS DONE BY CHOOSING A ROOM/VAV ZONE AND THEN TURNING THE SENSOR THUMBWHEEL TO THE COLDEST POINT. THE CHOSEN ZONE/ROOM THEN MUST APPEAR ON THE WORKSTATION GRAPHIC AS THE CONTROLLING/CRITICAL ZONE. THE TEMPERATURE CONTROLS CONTRACTOR WILL BE RESPONSIBLE FOR PROGRAMMING THE SYSTEM SUCH THAT THIS TEST PASSES BEFORE THE SYSTEM IS ACCEPTED. OPERATION OF SYSTEM SHALL BE VERIFIED BY ENGINEER.

RETURN FAN:
THE RETURN FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS.
ISOLATION DAMPERS SHALL CLOSE UPON FAN FAILURE OR BY MANUAL ACTIVATION IF FAN STATUS IS PROVEN OFF
AHU-1 WILL OPERATE TO MAINTAIN A FIXED AIRFLOW OFFSET FROM SUPPLY FANS. -10% (ADJ.)
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RETURN FAN VFD FAULT.

BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE RETURN FAN VFD SPEED TO MAINTAIN A DIFFERENTIAL PRESSURE SETPOINT OF +0.05IN H2O RELATIVE TO OUTSIDE (ADJ.). THE RETURN FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJ.).
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

MAIN COOLING COIL:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT
THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

MINIMUM OUTSIDE AIR VENTILATION:
THE OUTSIDE AIR REQUIREMENTS OF THE AIR HANDLING UNIT WILL CORRELATE TO SUPPLY AIRFLOW OF THE UNIT. THE CONTROLS CONTRACTOR SHALL DEVELOP A CURVE TO RELATE THE OUTSIDE AIR REQUIREMENT (DAMPER POSITION) BASED ON THE VARIOUS SUPPLY AIRFLOWS OF THE SYSTEM. THIS CURVE SHALL BE DEVELOPED BASED ON THE OUTSIDE AIR REQUIREMENT TABLE FOR EACH UNIT.

OUTSIDE AIR FLOW SHALL BE CALCULATED USING THE FOLLOWING PARAMETERS:
- OUTSIDE AIR FLOW (SENSOR)
- SUPPLY FAN AIRFLOW (SUMMATION OF VAV BOXES AIRFLOWS)

ROOM CO2 LEVELS SHALL BE MONITORED. IF A ROOM CO2 LEVEL EXCEEDS THE MAX VALUE AND THE BOX IS AT THE MAX AIRFLOW FOR MORE THAN 15 MIN (ADJ.) THE AHU OA DAMPER POSITION SHALL MODULATE OPEN AT 5% STEPS EVERY 15 MIN UNTIL THE CO2 LEVEL IS ACCEPTABLE. AFTER 1 HOUR (ADJ.) THE AHU CONTROL SHALL REVERT TO BEING CONTROLLED BASED ON TOTAL AIRFLOW AND THE CORRESPONDING OA CFM.

RETURN AIR HUMIDITY:
THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR HUMIDITY CONTROL.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 60% R.H. (ADJ.).

SUPPLY AIR HUMIDITY:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR HUMIDITY FOR LEVELS, ALARMS, AND EQUIPMENT SHUTDOWN.
THE HUMIDIFIER MANIFOLD SHALL BE COMMANDED OFF UPON A HIGH SUPPLY AIR HUMIDITY ALARM.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR HUMIDITY: IF SUPPLY AIR HUMIDITY IS GREATER THAN 70% (ADJ.).
- LOW SUPPLY AIR HUMIDITY: IF SUPPLY AIR HUMIDITY IS LESS THAN 50% (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.).

FILTER STATUS:
THE CONTROLLER SHALL MONITOR THE FILTER BANK STATUS.

AHU-1: FILTER PRESSURE DROP SHALL BE DISPLAYED VIA LCD DISPLAY.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- PRE-FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS 0.5" W.G. (ADJ.)
- FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS 0.5" W.G. (ADJ.).

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 80°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).

10 TERMINAL AIR BOX - WITH REHEAT CONTROL DIAGRAM
N.T.S.

TERMINAL AIR BOX -CONTROL DIAGRAM:

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAT THE COOLING SETPOINT BY 10°F (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10°F (ADJ.).

ZONE SETPOINT ADJUSTMENT:
REFER TO ZONE SENSOR SCHEDULE ON DRAWINGS FOR ZONE SENSOR TYPE, LOCATION, AND ADJUSTMENT INFORMATION.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR 30 MINUTES (ADJ.). UP TO A MAXIMUM OF 2 HOURS PER ENERGY CODE. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE. FOR ZONES WITH LOCAL OVERRIDE CAPABILITY, REFER TO ZONE SENSOR SCHEDULE ON DRAWINGS.

OPTIMUM START CONTROLS:
THE START TIME SHALL BE AUTOMATICALLY ADJUSTED IN ORDER FOR THE HVAC SYSTEM TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING: [SEE TAB SCHEDULE FOR AIR FLOW SETTINGS.]

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, AND THE HEATING IS OFF, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.)
- WHEN THE ZONE DAMPER IS AT IT'S MINIMUM SETTING, AND TEMPERATURE CONTINUES TO FALL, MODULATE HEATING COIL CONTROL VALVE TO MAINTAIN SCHEDULED LEAVING AIR TEMP. IF TEMPERATURES CONTINUES TO FALL MODULATE DAMPER OPEN WHILE MAINTAIN LEAVING AIR TEMP UNTIL DAMPER IS AT MAX REHEAT POSITION.

UNOCCUPIED:
- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL BE FULLY CLOSED.
- WHEN ZONE TEMPERATURE IS GREATER THAN ITS UNOCCUPIED COOLING SETPOINT, SEND A SIGNAL TO ENERGIZE THE AIR HANDLING UNIT. THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS SETPOINT.

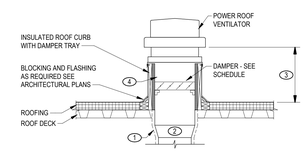
REHEATING COIL VALVE (DURING MECHANICAL COOLING):
REHEAT SHALL BE ALLOWED WHEN MECHANICAL COOLING AND ECONOMIZER COOLING ARE NOT OPERATING OR THE AIRFLOW RATE THAT IS REHEATED IS LESS THAN 50% OF THE ZONE DESIGN PEAK SUPPLY RATE. WHERE REHEAT IS PERMITTED, ZONES THAT HAVE BOTH SUPPLY AND RETURN/EXHAUST AIR OPENINGS GREATER THE 6 FT ABOVE FLOOR SHALL NOT SUPPLY HEATING AIR MORE THAN 20°F ABOVE THE SPACE TEMPERATURE SETPOINT EXCEPT DURING PRECOCCUPANCY BUILDING WARM-UP AND SETBACK.

REHEATING COIL (HEATING):
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE SCR CONTROLLER TO MAINTAIN ITS HEATING SETPOINT.

DISCHARGE AIR TEMPERATURE SENSOR:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

CO2 CONTROL:
FOR ROOMS WITH CO2 SENSORS THE BOX SHALL BE ALLOWED TO MODULATE FROM FULLY CLOSED TO MAX AIRFLOW TO SATISFY THE SPACE HEATING AND COOLING REQUIREMENTS. THE CO2 LEVEL IN EACH ROOM SHALL BE MAINTAINED AT OR BELOW 750 PPM (ADJ.). IF THE LEVEL RISES ABOVE 750 PPM THE BOX AIRFLOW SHALL INCREASE AT 20% (ADJ.) INCREMENTS EVERY 10 MINUTES UNTIL THE CO2 LEVEL IS AT AN ACCEPTABLE LEVEL. AS THE CO2 LEVEL DROPS BELOW 500 PPM (ADJ.) THE BOX AIRFLOW SHALL DROP AS NEEDED TO SATISFY THE SPACE TEMPERATURE NEEDS. IF THE SPACE CO2 LEVEL EXCEEDS 1000 PPM AN ALARM SHALL BE SENT.

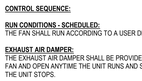
END OF SEQUENCE



9 EXHAUST FAN - DOWNBLAST
N.T.S.

GENERAL NOTES:
1. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION AND FLASHING WITH THE GENERAL CONTRACTOR. REFER TO SCHEDULE FOR HEIGHT REQUIREMENTS.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENING AND CURB SIZE REQUIRED FOR DUCT PENETRATION.
3. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" (10MM) CADMIUM PLATED LAG BOLTS NOT OVER 12" (305MM) ON CENTER
4. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF)
5. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THEN CURB SUPPLIED WITH ROOF VENTILATOR.

KEYED NOTES:
1. COORDINATE DUCT INSULATION AND CONSTRUCTION WITH DUCT USAGE SCHEDULE.
2. REFER TO PLAN FOR DUCT SIZES AND ROUTING. TRANSITION DUCT TO FULL SIZE OF DAMPER SUPPLIED WITH ROOF VENTILATOR.
3. EXHAUST AIR OUTLET TO BE A MINIMUM OF 18" ABOVE ROOF.
4. RIGID CONDUIT TO ACCOMODATE ELECTRICAL WIRES.



8 EXHAUST FAN - ON/OFF
N.T.S.

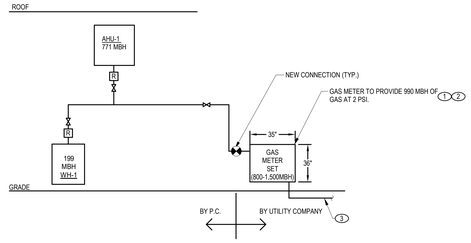
CONTROL SEQUENCE:

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

EXHAUST AIR DAMPER:
THE EXHAUST AIR DAMPER SHALL BE PROVIDED WITH THE EXHAUST FAN AND OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

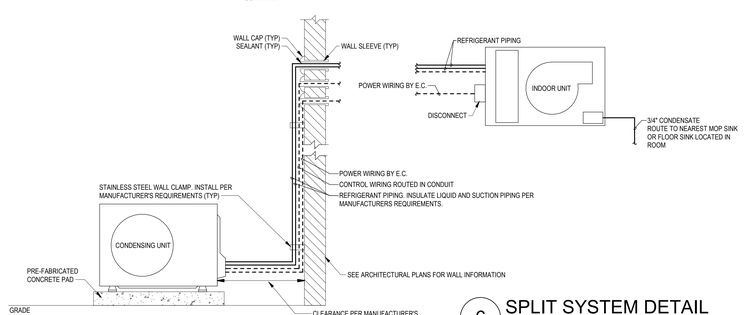
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.



7 NATURAL GAS PIPING RISER
N.T.S.

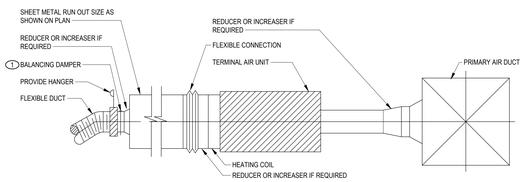
GENERAL NOTES:
1. SEE PLANS FOR PIPE SIZES.
2. VENT ALL REGULATORS PER THE FUEL GAS CODE.
3. PAINT ALL EXPOSED PIPING AND FITTINGS. COORDINATE COLOR WITH ARCHITECT
4. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL NEW SERVICE AND METER FEES ASSOCIATED WITH INSTALLING NEW AND/OR RELOCATING GAS METER(S).
5. COORDINATE LOCATION OF SOLENOID VALVES WITH ARCHITECT.
6. METER SET DIMENSIONS LISTED ARE APPROXIMATE. M.C. TO COORDINATE FINAL METER SET DIMENSIONS BASED ON PROJECT SPECIFIC METER SET DESIGN WITH UTILITY COMPANY.

KEYED NOTES:
1. M.C. TO PROVIDE UNI-STRUT RACK AND MOUNTING HARDWARE PER UTILITY COMPANY REQUIREMENTS.
2. M.C. TO PROVIDE BOLLARD POSTS PER UTILITY COMPANY REQUIREMENTS. REFER TO NATURAL GAS METER SET BOLLARD DETAIL FOR ADDITIONAL REQUIREMENTS.
3. UNDER GROUND GAS UTILITY MAIN BY OTHERS.



6 SPLIT SYSTEM DETAIL
N.T.S.

GENERAL NOTES:
1. VERIFY REFRIGERANT PIPING LENGTH AND ELEVATION CHANGE. DO NOT EXCEED MANUFACTURER'S REQUIREMENTS.
2. MAINTAIN ALL REQUIRED SERVICE CLEARANCES TO MEET MANUFACTURER'S REQUIREMENTS.

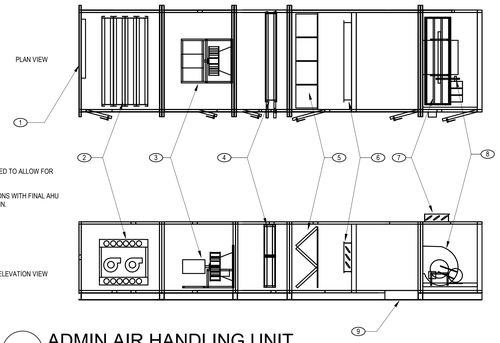


5 TERMINAL UNIT DUCT TAKE-OFF
N.T.S.

GENERAL NOTES:
BRANCH DUCT SERVING TERMINAL AIR BOX INLET SIZING CRITERIA. REFER TO PLANS FOR ACTUAL DUCT AND TERMINAL AIR BOX AIRFLOW.

1. SEE DUCTWORK APPLICATION SCHEDULE FOR INSULATION REQUIREMENTS.
2. EQUIVALENT RECTANGULAR DUCT SIZES ARE ACCEPTABLE BASED ON THE SIZING CRITERIA ABOVE.

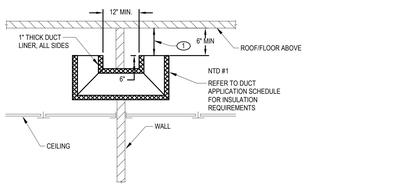
KEYED NOTES:
1. INCLUDE IF UNIT SERVES MORE THAN ONE AIR OUTLET.



KEYED NOTES:
1. DISCHARGE OPENING
2. GAS HEATER
3. SUPPLY FAN
4. COOLING COIL
5. FILTER SECTION
6. DAMPER
7. DAMPER TOP
8. PLENUM RETURN FAN
9. BOTTOM OPENING

GENERAL NOTES:
1. COORDINATE CURB HEIGHT REQUIRED TO ALLOW FOR PROPER CONDENSATE DRAINAGE.
2. COORDINATE FLOOR DRAIN LOCATIONS WITH FINAL AHU SHOP DRAWINGS PRIOR TO ROUGH IN.

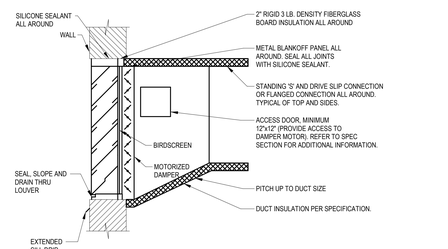
4 ADMIN AIR HANDLING UNIT
N.T.S.



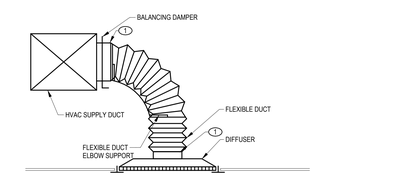
3 TRANSFER DUCT - ACOUSTIC TRANSFER DUCT
N.T.S.

GENERAL NOTES:
1. IF 1/2 DUCT HEIGHT IS NOT AVAILABLE FROM FLOOR/ROOF ABOVE, ROTATE TRANSFER DUCT ASSEMBLY 90 DEGREES.
2. ELBOWS CAN BE INSTALLED HORIZONTALLY IF HEIGHT LIMITATIONS ARE PRESENT

KEYED NOTES:
1. INSTALL HIGH, MAINTAIN CLEARANCE OF 1/2 DUCT HEIGHT FROM FLOOR/ROOF ABOVE.



2 LOUVER AND DAMPER - DUCTED
N.T.S.



1 FLEX DUCT INSTALL
N.T.S.

GENERAL NOTES:
1. INSTALL FLEXIBLE DUCT ELBOW SUPPORTS AT ALL FLEXIBLE DUCT 90 DEGREE BENDS.
2. 5'-0" MAX FLEXIBLE DUCT LENGTH ALLOWED

KEYED NOTES:
1. M.C TO USE ZIP TIES TO ATTACH FLEX DUCT TO DUCT TAP AND DIFFUSER

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PROJECT NUMBER: CEL05
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AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	LOCATION (INDOOR/OUTDOOR) (NOTE 1)	SUPPLY FAN								RETURN / RELIEF FAN								DESIGN OUTSIDE AIR (CFM)	COMPONENTS (NOTE 5)		MAXIMUM UNIT DIMENSIONS				DISCONNECT		OPTIONS	NOTES
					FAN QUANTITY (NOTE 2)	AIRFLOW (CFM) (NOTE 2)	ESP (IN W.C.) (NOTES 2, 3, 4)	FAN TYPE	BHP (NOTE 3)	HP (NOTE 3)	VOLT	PHASE	FAN QUANTITY (NOTE 2)	AIRFLOW (CFM) (NOTE 2)	ESP (IN W.C.) (NOTES 2, 3, 4)	FAN TYPE	BHP (NOTE 3)	HP (NOTE 3)	VOLT	PHASE		COILS		BASERAIL HEIGHT (IN.) (NOTE 7)	HEIGHT (IN.) (NOTE 8)	WIDTH (IN.)	LENGTH (IN.)	TYPE	BY		
																						COOLING COIL	HEATING COIL							
AHU-1	TRANE	CSAA030	ADMIN BUILDING	INDOOR	1	12,500	3.7	DIRECT	13.9	25	460	3	1	12,500	2.8	DIRECT	10.6	15	460	3	2,600	CC-1	HC-1	6	71	93.5	283	NON-FUSED	MFR	1, 2, 3	9, 10

NOTES:

1. CONTRACTOR TO PROVIDE THE NECESSARY DUCTWORK TRANSFORMATION PIECES & FLEXIBLE DUCTWORK CONNECTIONS FOR ALL AIR HANDLING UNITS. FIELD COORDINATE REQUIREMENTS WITH APPROVED EQUIPMENT SHOP DRAWINGS PRIOR TO DUCT FABRICATION.
2. PERFORMANCE VALUE LISTED IS PER FAN.
3. EXTERNAL STATIC PRESSURE INCLUDES 0.5" W.C. FOR MID-LIFE FILTER PRESSURE DROP.
4. MANUFACTURER TO VERIFY TOTAL STATIC PRESSURE BASED ON FINAL UNIT CONFIGURATION.
5. SYSTEM COMPONENTS TO HAVE INDIVIDUAL POWER CONNECTIONS. MFR TO PROVIDE COMPONENT WIRING CONNECTION TERMINATED AT A JUNCTION BOX ON THE EXTERIOR OF THE UNIT.
6. EACH SECTION OF THE UNIT TO HAVE LIGHTS PER THE SPECIFICATIONS. E.C. TO PROVIDE A SINGLE SWITCH, WIRING & CONDUIT BETWEEN EACH MODULAR SECTION OF THE UNIT TO POWER UNIT LIGHTING.
7. PROVIDE UNIT WITH BASERAIL THAT WILL ALLOW FOR PROPER CONDENSATE DRAIN TRAP DEPTH BASED ON FINAL UNIT CONFIGURATION AND UNIT T.S.P.
8. HEIGHT LISTED INCLUDES BASE RAIL HEIGHT.
9. PROVIDE WITH MERV 8 FILTER
10. PROVIDE WITH MOTORIZED DAMPERS FOR THE SUPPLY, RETURN, OUTDOOR, EXHAUST, AND MIXING SECTIONS.

OPTIONS:

1. CONVENIENCE OUTLET. FIELD POWERED BY E.C.
2. LED LIGHTS
3. VFD(S) FOR SUPPLY & RETURN FAN(S)

COIL SCHEDULE - REFRIGERANT COOLING

MARK	MANUFACTURER	MODEL	SERVICE	AIRFLOW (CFM)	COIL CONFIGURATION					MAX FACE VELOCITY (FPM)	AIR TEMPERATURE (°F)				TOTAL CAPACITY (MBH)	REFRIGERANT CIRCUITS (NOTE 2)				NOTES
					COIL DIMENSIONS (IN.)			MAX ROWS	MAX FINS PER INCH		ENTERING		LEAVING			QUANTITY	TYPE	SUCTION TEMP (°F)	LIQUID TEMP (°F)	
					W	X	H				DB (°F)	WB (°F)	DB (°F)	WB (°F)						
CC-1	TRANE	NOTE 3	ADMIN	12,500	82	X	52	6	9	422	78.4	66.42	55	53.54	491	4	R-454B	45	115	4

NOTES:

1. PRESSURE DROP BASED ON TOTALLY SATURATED COIL.
2. MATCH COOLING COIL AND CONDENSING UNIT PERFORMANCE DATA. SIZE AND ROUTE ALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
3. COIL PROVIDED WITH AHU-1 AIR HANDLING UNIT.

SPLIT SYSTEM AIR CONDITIONER SCHEDULE - INDOOR & OUTDOOR UNITS

MARK	MANUFACTURER	MODEL	SERVICE	NOMINAL CAPACITY (TONS)	SEER2	INDOOR UNIT						DIMENSIONS (IN.)			ELECTRICAL (NOTE 1)					NOTES
						AIRFLOW (CFM)	REFRIGERANT	MAXIMUM LINESET LENGTH (FT.) (NOTE 3)	EAT		TOTAL MBH	FILTERS	LENGTH (INDOOR/OUTDOOR)	DEPTH (INDOOR/OUTDOOR)	HEIGHT (INDOOR/OUTDOOR)	VOLT	PH	MCA	MOCP		
									DB (°F)	WB (°F)										BY	TYPE	
SSAC-1 / SSCU-1	MITSUBISHI	PKA SERIES (INDOOR) PUY SERIES (OUTDOOR)	IT	1.5	19.5	375	R454B	100	80	67	18.0	1" WASHABLE	36"/35"	10"/12"	12"/25"	208	1	16	20	EC	NON-FUSED	1, 2, 3, 4, 5, 6

NOTES:

1. PROVIDE WITH A SINGLE POINT POWER CONNECTION TO THE CONDENSING UNIT. INDOOR UNIT TO BE POWERED FROM THE OUTDOOR UNIT. WIRING BY E.C.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT AND CONTROLS.
3. COORDINATE INDOOR AND OUTDOOR UNIT LOCATIONS WITH FINAL PIPING ROUTING. INSTALL PER MANFUACTURERS REQUIREMENTS.
4. PROVIDE WITH LOW AMBIENT KIT FOR OPERATION DOWN TO ZERO DEGREES.
5. PROVIDE WITH PLENUM RATED UNIT MOUNTED CONDENSATE PUMP EQUAL TO LITTLE GIANT.
6. PROVIDE WITH FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM.

VARIABLE FREQUENCY MOTOR CONTROLLER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	MOTOR VOLTAGE	MOTOR HP	BYPASS	DISCONNECT TYPE	NOTES
VFD-1	TOSHIBA	Q9	SUPPLY FAN	480-3	25	YES	INTEGRAL	1, 2, 3
VFD-2	TOSHIBA	Q9	EXHAUST FAN	480-3	15	YES	INTEGRAL	1, 2, 3

NOTES:

1. PROVIDE 3% AC LINE REACTOR.
2. PROVIDE INTEGRATED ENCLOSURE.
3. PROVIDED BY M.C., MOUNTED TO WALL/STRUCTURE AND WIRED BY E.C.

COIL SCHEDULE - GAS FURNACE

MARK	SERVICE	AIRFLOW (CFM)	FUEL (NATURAL GAS OR PROPANE)	OPERATING PRESSURE (IN. W.C.)	COIL PERFORMANCE					NOTES
					EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	TURNDOWN	
HC-1	ADMIN	12,500	NATURAL GAS	5-10.5	62.2	107.7	771.0	625.0	20:1	1, 2

NOTES:

1. PROVIDE WITH NATURAL GAS REGULATOR. VENT REGULATOR TO OUTDOORS.
2. COIL PROVIDED WITH MODULAR AIR HANDLING UNIT.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	AIRFLOW (CFM)	SIZE (INCHES)			FREE AREA (FT^2)	FREE AREA VEL. (FPM)	MAX. S.P. (IN. W.C.)	FINISH (NOTE 1)	NOTES
					W	x	H					
L-1	GREENHECK	EVH-501D	AHU OUTSIDE AIR	2,600	48	x	24	3.80	690	0.1	BAKED ENAMEL	-
L-2	GREENHECK	EVH-501D	AHU EXHAUST	2,600	48	x	24	3.80	690	0.1	BAKED ENAMEL	-

NOTES:

1. COLOR SELECTION BY ARCHITECT.

ZONE SENSOR SCHEDULE

ZONE TYPE	THERMOSTAT CONFIGURATION (NOTES 1,2,3)				UNOCCUPIED MODE WITH SETBACK (YES OR NO)	HEATING SETPOINT (°F)	HEATING SETBACK (°F)	COOLING SETPOINT (°F)	COOLING SETBACK (°F)	NOTES
	SENSOR ONLY	LOCAL OVERRIDE	ADJUSTMENT	ADJUSTMENT AMOUNT (°F)						
ENCLOSED OFFICES	NO	YES	YES	± 3	YES	70	55	72	85	
OPEN OFFICE	YES	NO	NO	-	YES	70	55	72	85	
CONFERENCE ROOMS	NO	YES	YES	± 3	YES	70	55	72	85	
TRAINING ROOMS	NO	YES	YES	± 3	YES	70	55	72	85	
RESTROOMS	YES	NO	NO	± 3	NO	70	-	72	-	
BREAKROOMS	NO	YES	YES	± 3	YES	70	55	72	85	
MECHANICAL ROOMS	YES	NO	NO	-	NO	70	-	72	-	
LOBBY	YES	NO	NO	-	YES	70	55	72	85	
VESTIBULES (SMALL)	YES	NO	NO	-	NO	70	-	72	-	
CORRIDORS	YES	NO	NO	-	NO	70	-	72	-	
AUDITORIUM	YES	NO	NO	-	YES	70	55	72	85	

NOTES:

1. VERIFY LOCATION OF ALL THERMOSTATS WITH THE OWNER, ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
2. ALL TEMPERATURE SENSORS & THERMOSTATS THAT HAVE USER ADJUSTMENT SHALL BE INSTALLED AT 42" A.F.F. TO THE CENTERLINE OF THE DEVICE.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	AIRFLOW (CFM)	S.P. (IN. W.C.)	MAX FAN RPM	DRIVE	WHEEL DIA. (INCHES)	MAX. AMCA SONES	ROOF CURB			FAN CONSTRUCTION		ELECTRICAL (FAN)						DAMPER			CONTROL TYPE	NOTES
											TYPE	HEIGHT (IN.) NOTE 2)	PROVIDED BY	HOUSING (STEEL OR ALUM)	WHEEL (STEEL OR ALUM)	BHP	MHP	VOLT	PH	DISCONNECT		STARTER BY	TYPE (MOTORIZED OR GRAVITY)	VOLT	PH		
																					BY	TYPE					
EF-1	GREENHECK	G-080-VG	RESTROOMS	MUSHROOM EXHAUST	150	0.5	1436	DIRECT	11	7	STANDARD	12"	MFR.	ALUM	COMPOSITE	0.04	1/10	115	1	MFR	1	MFR	MOTORIZED	120	1	TYPE 1	1
EF-2	GREENHECK	G-130-VG	LOCKERS AND MECH ROOM	MUSHROOM EXHAUST	1805	0.5	1468	DIRECT	13	14.8	STANDARD	12"	MFR.	ALUM	ALUM	0.35	1/2	115	1	MFR	1	MFR	MOTORIZED	120	1	TYPE 1	1

NOTES:

1. MOTORIZED BACKDRAFT DAMPER WIRED TO OPEN WHEN FAN OPERATES. FAN TO HAVE A SINGLE POINT POWER CONNECTION FOR FAN AND DAMPER FOR ON / OFF FANS.
2. HEIGHT LISTED IS THE MINIMUM REQURIED HEIGHT ABOVE THE FINISHED ROOF LEVEL. COORDINATE REQUIRED CURB HEIGHT WITH ARCHITECTURAL DRAWINGS AND ROOF CONSTRUCTION.

CONTROL TYPE:

TYPE 1. TIME OF DAY SCHEDULE (DDC)
TYPE 2. WALL MOUNTED SWITCH
TYPE 3. 24/7 OPERATION
TYPE 4. GAS DETECTION SYSTEM

VIBRATION ISOLATION SCHEDULE

EQUIPMENT SERVED		MANUFACTURER	ISOLATION INFORMATION		SERVICE	THICKNESS (IN.)	DEFL (IN.)	NOTES
TYPE	MARK		TYPE	DESCRIPTION				
AIR HANDLING UNIT	AHU-1	MASON	B3	SPRING FLOOR ISOLATOR (BASE MOUNTED)	ISOLATION OF UNIT FROM FLOOR SLAB	-		
		MASON	FC1	DUCTWORK FLEX CONNECTION	ALL DUCTWORK CONNECTIONS TO UNIT	-	-	
		MASON	FC2	PIPING FLEX CONNECTION	ALL PIPING CONNECTIONS TO UNIT	SEE TABLE BELOW		
CONDENSING UNIT	CU-1	MASON	B1	RUBBER PAD ISOLATOR (BASE MOUNTED)	ISOLATION OF UNIT FROM FLOOR SLAB	0.25	-	
		MASON	B4	RESTRAINED SPRING FLOOR ISOLATOR (BASE MOUNTED)	ISOLATION OF UNIT FROM FLOOR SLAB	-		

NOTES:

1. DEFLECTION SIZE LISTED IS FOR LATERAL MOVEMENT.

REQUIRED HOSE LENGTH FOR FLEXIBLE PIPING CONNECTIONS	
NOMINAL PIPE DIAMETER (IN.)	HOSE LENGTH (IN.)
0.75	12
1	12
1.5	12
2	12
2.5	12
3	18
4	18
5	24
6	24
8	24
10	24
12	36

CABINET UNIT HEATER SCHEDULE - ELECTRIC

MARK	MANUFACTURER	MODEL	SERVICE	CONFIGURATION			NOMINAL AIRFLOW (CFM)	ELECTRIC HEATING COIL		CONTROLS TYPE	CABINET DIMENSIONS			ELECTRICAL					NOTES
				CABINET	MOUNTING	DISCHARGE		NUMBER OF STAGES	KW		HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	HP	VOLT	PH	DISCONNECT		
																	BY	TYPE	
CUH-1	INDEECO	WAI	VESTIBULE	VERTICAL	RECESSED	FRONT	300	1	3.0	2	23-3/4"	23-3/4"	7"	FHP	208	1	MFR	NON-FUSED	1
CUH-2	INDEECO	CDIR	VESTIBULE	HORIZONTAL	RECESSED	BOTTOM	300	1	3.0	2	23-3/4"	23-3/4"	7"	FHP	208	1	MFR	NON-FUSED	1

NOTES:

1. VERIFY FINAL COLOR SELECTION WITH ARCHITECT.

CONFIGURATION NOTES:

CABINET: HORIZONTAL OR VERTICAL
MOUNTING: CONCEALED / RECESSED / SEMI-RECESSED / SURFACE
DISCHARGE: BOTTOM / TOP / DUCTED / FRONT

CONTROL TYPES:

1. UNIT MOUNTED THERMOSTAT
2. WALL MOUNTED THERMOSTAT - STAND ALONE
3. WALL MOUNTED THERMOSTAT - DDC

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE (NOTE 1)	NOMINAL DESIGN TONS	REFRIGERANT	AMBIENT TEMP. (°F)	NUMBER OF COMPRESSORS	NUMBER OF STAGES	NUMBER OF CIRCUITS	NUMBER OF FANS	ELECTRICAL (NOTE 2)						CONTROLS	NOTES
											VOLT	PH	MCA	MOCP	DISCONNECT			
															BY	TYPE		
CU-1	TRANE	RAUKC404E	ADMIN	40	R-454B	95	4	4	1	4	460	3	99	110	EC	NON-FUSED	NOTE 3	4, 5

NOTES:

1. CONDENSING UNIT PERFORMANCE TO MATCH THE ASSOCIATED COOLING COIL.
2. PROVIDE WITH A 120 V SERVICE RECEPTICLE WITH A DEDICATED CIRCUIT.
3. PROVIDE WITH PACKAGED CONTROLS BY MFR.
4. PROVIDE WITH CONDENSER HAIL GUARDS.
5. UNIT TO SIT ON A CONCRETE PAD WITH FROST FOOTINGS. COORDINATE SIZE OF PAD WITH FINAL EQUIPMENT SELECTION.

TEMPERATURE CONTROLS RESPONSIBILITY MATRIX

ITEM	PROVIDED BY	INSTALLED BY
THERMOSTATS AND TEMPERATURE SENSORS FOR EQUIPMENT CONTROLLED BY THE DDC SYSTEM	ATC	ATC
THERMOSTATS AND TEMPERATURE SENSORS FOR STAND-ALONE EQUIPMENT.	EQUIP MFR	EC
SENSORS AND METERS REFERENCED IN THE CONTROLS DOCUMENTS	ATC (NOTE 1)	MC
PRESSURE AND TEMPERATURE WELLS	MC	MC
CONTROL VALVES	ATC	MC
CONTROL DAMPERS	ATC	MC
DAMPER AND VALVE ACTUATORS	ATC	ATC
REFRIGERANT LEAK DETECTION SYSTEM	MC	ATC
TEMPERATURE CONTROL WIRING AND CONDUIT	ATC	ATC
INTERFACE FROM PACKAGED EQUIPMENT CONTROLS TO THE DDC	MC	ATC (NOTE 2)
VARIABLE FREQUENCY DRIVES	ATC	ATC

NOTES:

1. THE TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL SENSORS TO EXECUTE ALL SEQUENCES AS INDICATED ON THE DRAWINGS. COORDINATE ADDITIONAL SENSOR REQUIREMENTS WITH EQUIPMENT MANUFACTURER(S).
2. ATC TO CONNECT THE PACKAGED CONTROLS TO THE DDC SYSTEM.

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL	STYLE	BORDER (NOTE 1)	INLET SIZE (INCH) (NOTE 2)	FACE SIZE (INCH)	DAMPER NEEDED	MATERIAL	COLOR	NOTES
CD-1	TITUS	OMNI	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	STEEL	WHITE	
RG-1	TITUS	OMNI	PANEL FACE	LAY-IN	15" DIA.	24x24	NO	STEEL	WHITE	
RG-2	TITUS	350RL	35° DEFLECTION	SURFACE	SEE DWG.	INLET + 1 3/4"	NO	STEEL	WHITE	
SG-1	TITUS	300RL	DOUBLE DEFLECTION	SURFACE	SEE DWG.	INLET + 1 3/4"	NO	STEEL	WHITE	
EG-1	TITUS	OMNI-AA	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	ALUMINUM	WHITE	
EG-2	TITUS	350FL	35° DEFLECTION	DUCT MOUNTED	SEE DWG.	INLET + 1 3/4"	NO	ALUMINUM	WHITE	
SR-1	TITUS	S300FL	CURVED DOUBLE DEFLECTION	DUCT MOUNTED	SEE DWG.	INLET + 1 1/2"	YES	STEEL	WHITE	3

NOTES:

1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING TYPE.
2. BRANCH DUCT TO DIFFUSERS SHALL BE AT THE SAME SIZE AS THE DIFFUSER NECK, UNLESS SHOWN OTHERWISE.
3. PROVIDE WITH EXTRACTOR.

LINEAR DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	STYLE (NOTE 1, 2)	CONFIGURATION (NOTE 3)				PLENUM			FIXED BLADE DEFLECTION ANGLE	PATTERN CONTROL		INTEGRAL BALANCING DAMPER	MATERIAL	COLOR	NOTES
				NUMBER OF SLOTS	SLOT WIDTH (IN.)	TOTAL MAX. WIDTH (IN.)	NOMINAL LENGTH (IN.)	REQUIRED	INSULATION			REQUIRED	TYPE (NOTE 4)				
									TYPE	THICKNESS (IN.)	INLET SIZE (IN.)						
LD-1	TITUS	ML / MLT	CEILING LINEAR SLOT	2	1	4	48	YES	LINER	1/2	SEE PLANS	N/A	YES	2B	NO	ALUMINUM WITH STEEL BLADES	WHITE	

NOTES:

1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE AND END FABRICATION TO MATCH CEILING CONSTRUCTION.
2. PROVIDE WITH CONCEALED FASTENERS.
3. AT DESIGN AIRFLOW AS NOTED ON THE PLANS THE DIFFUSER NOISE SHALL NOT EXCEED AN NC OF 30.
4. PATTERN CONTROL SHALL BE AS FOLLOWS:

TYPE 1 1 - SLOT: DIRECT AT EXTERIOR WALL
TYPE 2A 2 - SLOT: DIRECT ONE SLOT AT EXTERIOR WALL AND ONE TOWARDS INTERIOR
TYPE 2B 2 - SLOT: DIRECT BOTH SLOTS AT EXTERIOR WALL
TYPE 3A 3 - SLOT: DIRECT TWO SLOTS AT EXTERIOR WALL AND ONE TOWARDS INTERIOR
TYPE 3B 3 - SLOT: DIRECT THREE SLOTS AT EXTERIOR WALL

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

MECHANICAL SCHEDULES MA600

NOTES:

1. DUCT DIMENSIONS SHOWN ON PLAN ARE CLEAR INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION.
2. R-VALUE LISTED IN SCHEDULE IS THE MINIMUM ALLOWABLE INSTALLED R-VALUE.
3. INSULATION THICKNESS LISTED IS THE MINIMUM ALLOWABLE INSULATION THICKNESS. CONTRACTOR TO VERIFY REQUIRED INSULATION THICKNESS BASED ON INSULATION DENSITY USED.
4. DUCT SEAL CLASS TO BE BASED ON PRESSURE CLASS AS NOTED BELOW:
   - CLASS A: -10"W.C. THRU -4" W.C.
   - CLASS B: -3" W.C.
   - CLASS C: -2" W.C. THRU +2"W.C.
   - CLASS B: +3" W.C.
   - CLASS A: +4"W.C. THRU +10" W.C.
5. ACTUAL DUCT CONSTRUCTION SHALL EXCEED THE ACTUAL PRESSURE RATING LISTED AND FALL INTO ONE OF THE STANDARD DUCT PRESSURE CLASS RATINGS AS FOLLOWS:
   - 0.5", 1", 2", 3", 4", 6", 10" (POSITIVE OR NEGATIVE)
6. ALL DUCTWORK BETWEEN A FAN AND A FIRE, FIRE / SMOKE OR SMOKE DAMPER REQUIRES A PRESSURE RELIEF DOOR TO PROTECT THE DUCTWORK DURING A CLOSURE OF THE DAMPER WHILE THE FAN IS STILL OPERATING. REFER TO THE PRESSURE RELIEF DOOR SCHEDULE AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
7. DUCTWORK INSULATION TO BE METAL JACKETED AND SEALED WATERTIGHT. SLOPE DUCTWORK WITH ADEQUATE SLOPE TO PREVENT PONDING WATER.
8. DUCTWORK SYSTEM TO BE PRE-FABRICATED, DOUBLE LAYERED, DOUBLE WALL, PRE-INSULATED, WEATHERPROOF OUTDOOR DUCT.
9. ALL EXPOSED DUCTWORK TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

INSULATION TYPES:

- TYPE A: FLEXIBLE FIBERGLASS - OUTSIDE WRAP
- TYPE B: SEMI-RIGID FIBERGLASS BOARD (EXTERIOR OF DUCT)
- TYPE C: FLEXIBLE FIBERGLASS LINER
- TYPE D: PREFORMED RIGID FIBERGLASS ACOUSTICAL LINER
- TYPE E: FLEXIBLE MINERAL FIBER DUCT WRAP
- TYPE F: FLEXIBLE FIBERGLASS SPIRAL DUCT LINER

DUCTWORK APPLICATION SCHEDULE

AIR HANDLING SYSTEM	EQUIPMENT SERVICE	AIRSTREAM	DUCTWORK LOCATION (ALL DUCT CONCEALED UNLESS NOTED OTHERWISE)	SYSTEM TYPE (CONSTANT VOLUME OR VAV OR BOTH)	ACTUAL PRESSURE RATING (IN W.C.) (NOTES 4, 5, & 6)		DUCTWORK MATERIAL	SINGLE OR DOUBLE WALL	DUCT SHAPE	INSULATION APPLICATION (NOTE 1)				NOTES
					SEAL CLASS	AHU-1			ROUND / RECT / FLAT OVAL	MINIMUM R-VALUE (NOTE 2)	THICKNESS (IN.) (NOTE 3)	TYPE	LINER, WRAP, OR BOARD	
AIR HANDLING UNITS ROOFTOP UNITS MAKEUP AIR UNITS		OUTSIDE AIR	OUTSIDE AIR LOUVER TO AHU HEATING COIL	BOTH	B	3	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
		SUPPLY AIR	FAN TO TERMINAL AIR BOX	VARIABLE AIR VOLUME	B	3	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
										R-6	1-1/2"	C OR D	LINER	
		SUPPLY AIR	INDOOR EXPOSED	BOTH	C	2	GALVANNEALED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-4	1"	C OR D	LINER	9
					C	2		DOUBLE WALL WITH SOLID INNER LINER		R-4	1"	C OR D	LINER	9
					C	2		DOUBLE WALL WITH PERFORATED INNER LINER		R-4	1"	C OR D	LINER	9
					C	2		SINGLE	ROUND	R-4	1"	F	LINER	9
		SUPPLY AIR	TERMINAL AIR BOX HEATING COIL	VARIABLE AIR VOLUME	-	-	GALVANIZED SHEET METAL	SINGLE	-	R-6	2.2"	A	WRAP	
		SUPPLY AIR	TERMINAL AIR BOX TO OUTLET	VARIABLE AIR VOLUME	C	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					C	2				R-6	1-1/2"	C OR D	LINER	
AIR HANDLING UNITS		RETURN AIR	AIR INLET TO AHU / RTU	BOTH	C	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					C	2				R-6	1-1/2"	C OR D	LINER	
		RELIEF AIR	AHU / RTU TO RELIEF AIR LOUVER	BOTH	B	3	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
GENERAL EXHAUST		EXHAUST AIR	INLET TO EXHAUST FAN	CONSTANT VOLUME	A	N / A	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	-	NONE	-	-	
			FIRST 10' UPSTREAM OF EXHAUST FAN	CONSTANT VOLUME	A		GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-4	1"	C OR D	LINER	
LOUVERS		OUTSIDE AIR	LOUVER TO INSULATED DAMPER	CONSTANT VOLUME	-	N / A	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
		RELIEF / EXHAUST AIR	INSULATED DAMPER TO LOUVER	CONSTANT VOLUME	-	N / A	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
TRANSFER DUCT		RETURN AIR	INDOOR CONCEALED	CONSTANT VOLUME	C	N / A	GALVANIZED SHEET METAL	SINGLE	RECT	R-4	1"	C OR D	LINER	
DUCTWORK ACCESSORIES	GENERAL	GENERAL	-	VARIABLE AIR VOLUME	-	N / A	-	-	-	R-6	2.2"	A	WRAP	
TERMINAL AIRBOX / REHEAT COIL HEADERS	GENERAL	GENERAL	-	VARIABLE AIR VOLUME	-	N / A	-	-	-	R-6	2.2"	A	WRAP	

NOTES:

1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. GAS PIPING IS PROHIBITED FROM BEING INSTALLED IN SOLID PARTITIONS OR WALLS UNLESS IN A CHASE OR CASING (PIPE SLEEVE).
3. SEE SPECIFICATION SECTION 230719 FOR COMPLETE INSULATION AND JACKETING REQUIREMENTS. ALL INSULATION SHALL BE PLENUM RATED MEETING ASTM E84 WHERE INSTALLED IN A RETURN AIR PLENUM.
4. INSTALL RIGID CALCIUM SILICATE INSERTS AT ALL PIPING HANGERS.

PIPING APPLICATION SCHEDULE

SYSTEM (NOTE 1)	LOCATION	DESIGN WORKING PRESSURE (PSI)	MATERIAL	JOINTS	USAGE SIZE RANGE	INSULATION APPLICATION		NOTES
						THICKNESS (IN.)	TYPE (NOTES 3, 4)	
NATURAL GAS	ABOVE GRADE 5 PSI PRESSURE OR LESS	125	SCH 40 BLACK STEEL	THREADED OR WELDED	ALL	-	-	2
	ABOVE GRADE GREATER THAN 5 PSI PRESSURE	125	SCH 40 BLACK STEEL	WELDED	ALL	-	-	2
REFRIGERANT	GENERAL	500	ACR COPPER	FLARED END WITH SOLDER	LESS THAN 1-1/2"	1"	ELASTOMERIC FOAM	-
					1-1/2" & GREATER	1-1/2"		

TERMINAL AIR BOX SCHEDULE (AHU-1)

SYMBOL	AREA SERVED	MANUFACTURER	MODEL	COIL TYPE	MIN. INLET SIZE	CFM			ELECTRIC HEATING COIL						DEMAND CONTROL VENTILATION REQUIRED	NOTES
						COOLING MAX.	HEATING MAX.	MIN.	EAT °F	KW	MIN. COIL LAT °F	VOLT-PHASE	DISCONNECT	NO. OF STEPS		
VAV-101	OFFICE	TRANE	VCE	ELECTRIC	6	210	70	45	55	1.0	100	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-102	OFFICE	TRANE	VCE	ELECTRIC	8	600	125	90	55	2.0	106	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-103	CONFERENCE	TRANE	VCE	ELECTRIC	6	500	100	95	55	1.5	102	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-104	RESTROOM	TRANE	VCE	ELECTRIC	6	255	90	70	55	1.5	108	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-105	OFFICE	TRANE	VCE	ELECTRIC	6	240	70	45	55	1.0	100	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-106	LOBBY	TRANE	VCE	ELECTRIC	6	430	140	115	55	2.0	100	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-107	TRAINING	TRANE	VCE	ELECTRIC	10	975	265	145	55	3.5	97	277-1	FUSED BY MFR	3	NO	1, 2, 3, 4
VAV-108	CORRIDOR	TRANE	VCE	ELECTRIC	6	400	200	95	55	3.0	102	277-1	FUSED BY MFR	3	NO	1, 2, 3, 4
VAV-109	SIMULATION	TRANE	VCE	ELECTRIC	6	205	75	75	55	1.0	97	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-110	OFFICE	TRANE	VCE	ELECTRIC	6	295	110	110	55	1.5	98	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-111	RESTROOM	TRANE	VCE	ELECTRIC	8	625	90	90	55	1.5	108	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-112	BREAKROOM	TRANE	VCE	ELECTRIC	10	890	180	145	55	2.5	99	277-1	FUSED BY MFR	3	NO	1, 2, 3, 4
VAV-113	OPEN OFFICE	TRANE	VCE	ELECTRIC	8	550	150	150	55	2.0	97	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-114	OFFICE	TRANE	VCE	ELECTRIC	6	250	100	75	55	1.5	102	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-115	OFFICE	TRANE	VCE	ELECTRIC	6	125	75	45	55	1.0	97	277-1	FUSED BY MFR	2	NO	1, 2, 3, 4
VAV-201	ASSEMBLY	TRANE	VCE	ELECTRIC	16	2935	1100	1100	55	14.0	95	480-3	FUSED BY MFR	3	YES	1, 2, 3, 4
VAV-202	RESTROOM	TRANE	VCE	ELECTRIC	12	1430	875	190	55	11.5	97	480-3	FUSED BY MFR	3	NO	1, 2, 3, 4
VAV-203	MECHANICAL	TRANE	VCE	ELECTRIC	12	1655	525	190	55	7.0	97	480-3	FUSED BY MFR	3	NO	1, 2, 3, 4

NOTES:

1. CONTROLS TO BE FIELD MOUNTED BY ATC.
2. RADIATED AND DISCHARGE NOISE LEVELS SHALL NOT EXCEED AN NC OF 35 AT A PRESSURE DROP OF 1.0" W.C. PER ARI STANDARD 880.
3. TOTAL TERMINAL UNIT AIR PRESSURE DROP NOT TO EXCEED 0.5" W.C. AT PEAK COOLING AIRFLOW.
4. BOXES SHALL BE INSULATED FOR NONISOTHERMAL CONDITIONS.

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Revisions

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MECHANICAL SCHEDULES MA601

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)	LTNG	LIGHTNING
A	6" ABOVE COUNTER OR BACKSPLASH TO CENTERLINE OF DEVICE	LV	LOW VOLTAGE
		M	INSTALL DEVICE IN MILLWORK
A, AMP	AMPERE	MAX	MAXIMUM
AC	ABOVE COUNTER, AIR CONDITIONING UNIT	MAG.S	MAGNETIC STARTER
ACLG	ABOVE CEILING	MC	MOMENTARY CONTACT
AF	AMP FRAME	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MDC	MAIN DISTRIBUTION CENTER
		MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AL	ALUMINUM	MFS	MAIN FUSED DISCONNECT SWITCH
ALT	ALTERNATE	MH	MANHOLE
AMP	AMPERE	MIC	MICROPHONE
AMPL	AMPLIFIER	MIN	MINIMUM
ANNUN	ANNUNCIATOR	MISC	MISCELLANEOUS
APPROX	APPROXIMATELY	MLO	MAIN LUGS ONLY
AQ-STAT	AQUASTAT	MMS	MANUAL MOTOR STARTER
ARCH	ARCHITECT, ARCHITECTURAL	MOA	MULTIOUTLET ASSEMBLY
AS	AMP SWITCH	MSP	MOTOR STARTER PANELBOARD
AT	AMP TRIP	MSBD	MAIN SWITCHBOARD
ATC	AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR	N/A	NOT APPLICABLE
		NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
ATS	AUTOMATIC TRANSFER SWITCH		
AUTO	AUTOMATIC	NIC	NOT IN CONTRACT
AUX	AUXILIARY	NL	NIGHT LIGHT
AV	AUDIO VISUAL	N.O.	NORMALLY OPEN
AWG	AMERICAN WIRE GAUGE	NPF	NORMAL POWER FACTOR
B	BLACK DEVICE COLOR WITH BLACK UNBREAKABLE THERMOPLASTIC COVER	NTS	NOT TO SCALE
		OC	ON CENTER
	PLATE	OH	OVERHEAD
BAS	BUILDING AUTOMATION SYSTEM	OL	OVERLOADS
BATT	BATTERY	PA	PUBLIC ADDRESS
BD	BOARD	PB	PULL BOX OR PUSHBUTTON
BLDG	BUILDING	PC	PLUMBING CONTRACTOR
BMS	BUILDING MANAGEMENT SYSTEM	PE	PNEUMATIC ELECTRIC
C	CONDUIT	PED	PEDESTAL
CAB	CABINET	PF	POWER FACTOR
CAT	CATALOG	PH	PHASE
CATV	CABLE TELEVISION	PIV	POST INDICATING VALVE
CB	CIRCUIT BREAKER	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	PP	POWER POLE
CKT	CIRCUIT	PR	PAIR
CLG	CEILING	PRI	PRIMARY
CM	CONSTRUCTION MANAGER	PROJ	PROJECTION
COMB	COMBINATION	PRV	POWER ROOF VENTILATOR
CMPR	COMPRESSOR	PT	POTENTIAL TRANSFORMER
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE (CONDUIT)
CONST	CONSTRUCTION	PWR	POWER
CONT	CONTINUATION OR CONTINUOUS	QTY	QUANTITY
CONTR	CONTRACTOR	RAC	RIGID ALUMINUM CONDUIT
CP	CIRCULATING PUMP	RCPT	RECEPTACLE
CRT	CATHODE-RAY TUBE	REQD	REQUIRED
CT	CURRENT TRANSFORMER	RM	ROOM
CTR	CENTER	RMC	RIGID METALLIC CONDUIT
CU	COPPER	RTU	ROOF TOP UNIT
DEPT	DEPARTMENT	SC	SURFACE CONDUIT
DET	DETAIL	SEC	SECONDARY
DIA	DIAMETER	SHT	SHEET
DISC	DISCONNECT	SIM	SIMILAR
DIST	DISTRIBUTION	SLD	SINGLE-LINE DIAGRAM
DN	DOWN	S/N	SOLID NEUTRAL
DO	AUTOMATIC DOOR OPENER	SPEC	SPECIFICATION
DPR	DAMPER	SPKR	SPEAKER
DS	SAFETY DISCONNECT SWITCH	SP	SPARE
DT	DOUBLE THROW	SPP	SINGLE-POINT POWER
DWG	DRAWING	SR	SURFACE RACEWAY
EC	ELECTRICAL CONTRACTOR	SS	STAINLESS STEEL
ECB	ENCLOSED CIRCUIT BREAKER	SSW	SELECTOR SWITCH
ELEC	ELECTRIC, ELECTRICAL	S/S	STOP/START PUSHBUTTONS
ELEV	ELEVATOR	STA	STATION
ELU	EMERGENCY LIGHTING UNIT	STD	STANDARD
EM	EMERGENCY	SURF	SURFACE MOUNTED
EMS	ENERGY MANAGEMENT SYSTEM	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	SWBD	SWITCHBOARD
EP	ELECTRIC PNEUMATIC	SYM	SYMMETRICAL
EPO	EMERGENCY POWER OFF	SYS	SYSTEM
EQUIP	EQUIPMENT	TEL	TELEPHONE
EWC	ELECTRIC WATER COOLER	TERM	TERMINAL
EXIST	EXISTING	T	TAMPER RESISTANT
EXH	EXHAUST	TL	TWIST LOCK
EXP	EXPLOSION PROOF	T-STAT	THERMOSTAT
FA	FIRE ALARM	TTC	TELEPHONE TERMINAL CABINET
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TV	TELEVISION
		TVTC	TELEVISION TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FIXT	FIXTURE	UE	UNDERGROUND ELECTRICAL
FLR	FLOOR	UG	UNDERGROUND
FLUOR	FLUORESCENT	UH	UNIT HEATER
FPC	FIRE PROTECTION CONTRACTOR	UT	UNDERGROUND TELEPHONE
FU	FUSE	UTIL	UTILITY
FUDS	FUSED SAFETY DISCONNECT SWITCH	UV	ULTRAVIOLET
GA	GAUGE	V	VOLT
GAL	GALLON	VA	VOLT-AMPERES
GALV	GALVANIZED	VDT	VIDEO DISPLAY TERMINAL
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GEN	GENERATOR	VFD	VARIABLE FREQUENCY DRIVE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VOL	VOLUME
GFP	GROUND FAULT PROTECTOR	W	WATT
GND	GROUND	W/	WITH
GYP BD	GYPSUM BOARD	WG	WIRE GUARD
HWC#	DOMESTIC WATER CIRCULATING PUMP	WH	WATER HEATER
HOA	HANDS-OFF-AUTOMATIC SWITCH	W/O	WITHOUT
H	INSTALL DEVICE HORIZONTALLY	WP	WEATHERPROOF
HH	HANDHOLE	XFMR	TRANSFORMER
HP	HORSEPOWER	XFR	TRANSFER
HPF	HIGH POWER FACTOR	#"	LOCATION-SPECIFIC MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE
HT	HEIGHT		
HTG	HEATING		
HTR	HEATER		
HV	HIGH VOLTAGE	∠	ANGLE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	@	AT
		▲	DELTA
IC	INTERRUPTING CAPACITY	'	FEET
IG	ISOLATED GROUND	"	INCHES
IMC	INTERMEDIATE METAL CONDUIT	#	NUMBER
INCAND	INCANDESCENT	Ø	PHASE
IR	INFRARED	C	CENTER LINE
I/W	INTERLOCK WITH	P	PLATE
J-BOX	JUNCTION BOX		
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LT	LIGHT		
LTG	LIGHTING		

BREAKER FUNCTION SCHEDULE

SYMBOL	DESCRIPTION
A	ARC FAULT INTERUPTER (AFCI)
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
E	EXISTING BREAKER TO REMAIN
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
EN	EXISTING BREAKER SERVING NEW CIRCUIT
G	GROUND FAULT CIRCUIT INTERUPTER (GFCI) PROTECTION (5mA)
GE	GROUND FAULT CIRCUIT INTERRUPTER FOR EQUIPMENT (30mA)
GF	ADJUSTABLE GROUND FAULT PROTECTION FOR EQUIPMENT
HL	HANDLE LOCK TO LOCK BREAKER IN CLOSED POSITION
K#	KEY INTERLOCK (# REPRESENTS GROUPED KEYING)
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT, AND GROUND FAULT ADJUSTMENT
LSIA	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT, AND GROUND FAULT ALARM
N	NEW BREAKER IN EXISTING PANEL
NE	NEW BREAKER SERVING EXISTING CIRCUIT
SD	DENOTE SERVICE DISCONNECT
ST	SHUNT TRIP (120V OPERATED UNLESS NOTED OTHERWISE)

EQUIPMENT/DEVICE HOME RUN KEY

1. BRANCH CIRCUIT WIRING SHALL BE #12AWG UNLESS NOTED OTHERWISE ON THE PLAN OR IN THE SCHEDULES.
2. AS A MINIMUM, USE 10 AWG CONDUCTOR FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 100 FEET AND 277 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 200 FEET.
3. REFER TO SPECIFICATION SECTION 260519 FOR ADDITIONAL REQUIREMENTS.

EQUIPMENT GROUNDING CONDUCTOR
PHASE CONDUCTOR (SHORT LINE)
NEUTRAL CONDUCTOR (LONG LINE)

GENERAL PLAN SYMBOLS

MARK	SCHEDULED EQUIPMENT (UNDERLINED)
MARK	NONSCHEDULED EQUIPMENT
(E) MARK	EXISTING EQUIPMENT - (E) PREFIX (HALFTONE)
(R) MARK	EXISTING RELOCATED EQUIPMENT - (R) PREFIX
# / #	SECTION VIEW, TOP REPRESENTS DETAIL NUMBER, BOTTOM REPRESENTS SHEET NUMBER
# / #	ENLARGED VIEW, TOP REPRESENTS VIEW NUMBER, BOTTOM REPRESENTS SHEET NUMBER
	NEW WORK BY THE EC (DARK SOLID LINE)
	NEW UNDERGROUND WORK BY THE EC (DARK DASHED LINE)
	WORK BY OTHERS AND/OR EXISTING (LIGHT SOLID LINE)
	DEMO WORK BY THE EC (DARK DASHED LINE)
	MATCHLINE
X	KEYED NOTE
1	LIGHTING CONTROL CALLOUT SYMBOL (DIAMOND)
1	ELECTRICAL EQUIPMENT SYMBOL (OCTAGON)

GENERAL ELECTRICAL SYMBOLS

J	ELECTRICAL CONNECTION
EPO	EMERGENCY STOP PUSH BUTTON
DPM	DIGITAL POWER METER
PP	AUTOMATIC DOOR PUSH PAD
	PANELBOARD
	UTILITY TRANSFORMER
	SWITCHBOARD
T	TRANSFORMER
	DISCONNECT SWITCH
	UTILITY POWER METER
	COMBINATION STARTER
	ELECTRICAL EQUIPMENT (DASHED LINES INDICATE CODE REQUIRED CLEARANCES)
	GROUND BAR
HH-#	HAND HOLE

POWER SYMBOLS

SYMBOL	DESCRIPTION
	DUPLEX / DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, EMERGENCY POWER
	DUPLEX / DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
CD CR	CORD REEL / CORD DROP
	SIMPLEX RECEPTACLE, NEMA 5-20R
	SPECIAL RECEPTACLE
	RECESSED FLOOR BOX OR POKE-THRU
	CEILING MOUNTED RECEPTACLE, NEMA 5-20R
	SURFACE MOUNT MULTI-OUTLET ASSEMBLY
H $	HORSE POWER RATED SWITCH

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
FAP	CONTROL PANEL
NEF	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
FAA	REMOTE ANNUNCIATOR PANEL
PIV	POST INDICATOR VALVE AND TAMPER SWITCH
PS	AIR PRESSURE SWITCH
TS	VALVE TAMPER SWITCH
FS	WATER FLOW SWITCH
SD BR	BEAM SMOKE REFLECTOR
SD BE	LINEAR BEAM SMOKE DETECTOR
SD	LINEAR BEAM SMOKE DETECTOR
DSD	DUCT SMOKE DETECTOR
RS	DUCT SMOKE DETECTOR REMOTE INDICATOR STATION
H	HEAT DETECTOR ADDRESSABLE
LHD	LINEAR HEAT DETECTION CABLE
F	ADDRESSABLE FIRE ALARM MANUAL PULL STATION
SD	SMOKE DETECTOR
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
#	VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
	SPEAKER NOTIFICATION APPLIANCE, CEILING MOUNTED
#	SPEAKER/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
	HORN NOTIFICATION APPLIANCE, WALL MOUNTED
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
	SPEAKER NOTIFICATION APPLIANCE, WALL MOUNTED
#	SPEAKER/VISUAL NOTIFICATION APPLIANCE, WALL SWITCH
	VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
AM	ADDRESSABLE MONITOR MODULE
RM	ADDRESSABLE RELAY MODULE
	MAGNETIC DOOR HOLDER
HC	HVAC ELEVATOR HOISTWAY DAMPER
SD	HVAC SMOKE DAMPER
ZAM	ZONE ADAPTER MODULES
CO	CO DETECTOR
VCC	VOICE COMMAND CENTER
DCD	DUCT CO DETECTOR
	BELL
	HIGH FIDELITY SPEAKER - CEILING MOUNT
	HIGH FIDELITY SPEAKER - WALL MOUNT
ASD	AIR SAMPLING SMOKE DETECTOR
FSD	FIRE SMOKE DAMPER

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	CRITICAL FIXTURE (FULL SHADED)
	LIFE SAFETY (HALF SHADED)
	RECESSED MOUNTED (DIAGONAL SLASH)
	SURFACE MOUNTED
	SURFACE OR PENDANT FIXTURE (DOTS)
	POLE MOUNTED SITE FIXTURE
	RECESSED DOWNLIGHT (ARROW INDICATES WALL WASH)
	EMERGENCY LIGHT
	SINGLE / DOUBLE FACED EXIT SIGN
	EMERGENCY REMOTE HEAD (SINGLE/DOUBLE)
	COMBINATION EXIT/EMERGENCY LIGHT
	WALL MOUNTED FIXTURE (STEM OR STEMS)
	CYLINDRICAL FIXTURE (ARROW INDICATES WALL WASH)

LIGHTING CONTROL SYMBOLS

SYMBOL	DESCRIPTION
$	WALL SWITCH
OM	CEILING MOUNT SENSOR, DUAL TECHNOLOGY
IR	CEILING MOUNT SENSOR, INFRARED TECHNOLOGY
UM	CEILING MOUNT SENSOR, ULTRASONIC TECHNOLOGY
PC	PHOTOCELL

GENERAL NOTES

1. ALL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FLORIDA BUILDING CODES, AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL HAVE FINAL APPROVAL OF ALL INSTALLATIONS AND PRACTICES.
2. ALL MATERIALS FURNISHED SHALL BE NEW, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) UNLESS NOTED OTHERWISE.
3. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AHJ. INSTALL ALL CABLES AND WIRING IN CONDUIT OR RACEWAY UNLESS NOTED OTHERWISE. DO NOT SUPPORT CABLES OR WIRING FROM CEILING DEVICES, PIPING, DUCTWORK, OR CEILING FRAMING. PROVIDE NEW WIRING FOR ALL BRANCH CIRCUITS AND FEEDERS.
4. FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL NOT INCLUDE BENDS GREATER THAN 90 DEGREES. CONDUITS ABOVE GRADE SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES AND STRUCTURE.
5. CIRCUIT WIRING FOR THE EMERGENCY SYSTEM SHALL BE INSTALLED IN SEPARATE CONDUITS OR RACEWAYS AND SHALL REMAIN COMPLETELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER NEC REQUIREMENTS.
6. ALL FEEDER AND BRANCH CIRCUITS TO PANELS, MOTORS, LIGHT FIXTURES, RECEPTACLES, AND GENERAL DISTRIBUTION EQUIPMENT SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED PER THE NEC. THE CONDUIT SYSTEM SHALL NOT BE USED AS AN EQUIPMENT GROUND.
7. REFER TO MECHANICAL AND PLUMBING EQUIPMENT SCHEDULES FOR EQUIPMENT CONNECTIONS, DISCONNECT REQUIREMENTS, AND CONTROLS. THE ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE AND INSTALL ALL ITEMS INDICATED AS "BY EC" ON THE MECHANICAL AND PLUMBING SCHEDULES.
8. ALL WIRING AND FEEDER SIZES SHOWN ARE BASED ON COPPER CONDUCTORS UNLESS NOTED OTHERWISE. USE OF ALUMINUM FEEDER CONDUCTORS SHALL REQUIRE ENGINEER REVIEW OF FAULT CURRENT AND VOLTAGE DROP PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC-REQUIRED CLEARANCES, INCLUDING WORKING CLEARANCES AT ELECTRICAL DISTRIBUTION EQUIPMENT AND INSTALLATIONS ABOVE ACCESSIBLE CEILINGS.
10. CONDUIT FOR POWER WIRING MAY BE INSTALLED BELOW FLOOR SLABS UNLESS NOTED OTHERWISE. RACEWAYS FOR LOW-VOLTAGE CABLING (CONTROLS, TELECOMMUNICATIONS, ETC.) SHALL NOT BE INSTALLED BELOW OR WITHIN FLOOR SLABS UNLESS SPECIFICALLY NOTED. WHERE LOW-VOLTAGE CABLING IS ROUTED BELOW OR WITHIN SLABS, CONTRACTOR SHALL VERIFY CABLING IS LISTED FOR SUCH USE.
11. ALL ELECTRICAL CONDUCTORS SHALL BE STRANDED COPPER WITH TYPE THHN/THWN INSULATION UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR GENERAL WIRING AND #10 AWG FOR HOMERUNS. REFER TO SPECIFICATIONS OR SHEET-SPECIFIC NOTES FOR ADDITIONAL INFORMATION.
12. ALL NEW CIRCUITS REQUIRING NEUTRAL CONDUCTORS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT PERMITTED.
13. A GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED TO ALL LOADS. THE CONDUCTOR SHALL BE SIZED PER THE NEC. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
14. ALL BUILDING WIRING SHALL BE INSTALLED IN CONDUIT TO ACHIEVE CIRCUITING AS SHOWN. MINIMUM BRANCH CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SIZE CONDUCTORS PER NEC AMPACITY AND CONDUIT FILL REQUIREMENTS.
15. ALL HOME RUN CONDUITS FROM ELECTRICAL PANELBOARDS TO THE FIRST JUNCTION BOX SHALL BE A MINIMUM OF 1" CONDUIT AND SHALL TERMINATE IN A 4-11/16" SQUARE BY 2-1/8" DEEP (MINIMUM) JUNCTION BOX. JUNCTION BOX COVERS SHALL BE PAINTED AND CLEARLY MARKED WITH CIRCUIT NUMBERS. EACH HOME RUN RACEWAY SHALL HAVE SPARE CAPACITY FOR ONE (1) ADDITIONAL CIRCUIT AND ITS DEDICATED NEUTRAL.
16. MC CABLING SHALL NOT BE USED UNLESS SPECIFICALLY NOTED OTHERWISE.
17. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC., WHERE POSSIBLE.
18. ALL CONDUIT ROUTED EXPOSED IN FINISHED SPACES SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS. EXPOSED CONDUIT ROUTING SHALL BE REVIEWED WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
19. COORDINATE THE EXACT LOCATION OF ALL DEVICES ABOVE OR BELOW COUNTERTOPS OR SIMILAR INSTALLATIONS WITH OTHER TRADES, ARCHITECTURAL ELEVATIONS, AND APPROVED SUBMITTALS PRIOR TO ROUGH-IN. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER ELECTRICAL DRAWINGS.
20. ALL CUTTING AND PATCHING REQUIRED FOR CONDUITS, DEVICES, OR OTHER ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
21. ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH AN NRTL-APPROVED FIRESTOP SYSTEM EQUAL TO OR EXCEEDING THE RATING OF THE PENETRATED ASSEMBLY.
22. COORDINATE LOCATIONS OF ALL ELECTRICAL ITEMS INCLUDING, BUT NOT LIMITED TO, LIGHTING FIXTURES, CEILING-MOUNTED DEVICES (OCCUPANCY SENSORS, FIRE ALARM DEVICES, SPEAKERS, ETC.), SPRINKLER HEADS, AND HVAC DIFFUSERS/RETURNS. CENTER DEVICES IN CEILING TILES WHERE POSSIBLE.
23. ALL CEILING DEVICES REQUIRING WIRE TERMINATIONS SHALL BE INSTALLED WITH MANUFACTURER-RECOMMENDED BACK BOXES AND SUPPORTS AS REQUIRED BY THE NEC OR MANUFACTURER.
24. COORDINATE ALL MOUNTING OF ELECTRICAL MATERIALS, EQUIPMENT, AND DEVICES REQUIRED FOR EQUIPMENT SUPPLIED BY OTHERS. ELECTRICAL INSTALLATIONS SHALL NOT INTERFERE WITH OPERATION OR ACCESS. ALL SUCH INSTALLATIONS SHALL BE REVIEWED AND APPROVED BY THE SUPPLYING CONTRACTOR PRIOR TO ROUGH-IN.
25. BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" OR SHALL BE PROTECTED WITH A FIRE-RATED MATERIAL EQUAL TO OR GREATER THAN THE WALL RATING.
26. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6".
27. REMOVE AND REINSTALL CEILING TILES AS NECESSARY TO PERFORM REQUIRED ELECTRICAL WORK. REPLACE ALL DAMAGED CEILING TILES WITH NEW TILES OF THE SAME MANUFACTURER AND MODEL.
28. PROVIDE FIELD TYPED PANELBOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS.
29. ALL REQUESTS FOR CHANGE PROPOSALS SHALL INCLUDE DETAILED BREAKDOWNS OF MATERIALS, LABOR, AND SUBCONTRACTOR COSTS. SUPPLIER QUOTES SHALL BE PROVIDED ON SUPPLIER LETTERHEAD. LABOR UNITS FOR NEW MATERIAL INSTALLATIONS SHALL NOT EXCEED 75% OF NECA 1 "NORMAL CONDITION" RATES WITHOUT SPECIFIC APPROVAL.

ELECTRICAL SHEET LIST

EA000	ELECTRICAL COVER PAGE
ES101	ELECTRICAL BID #2 SITE PLAN
ES102	ELECTRICAL SITE LIGHTING PLAN
ES103	ELECTRICAL SITE PHOTOMETRIC PLAN
ELA100	ELECTRICAL LIGHTING PLAN
EMA100	MECHANICAL POWER PLAN
EPA100	ELECTRICAL POWER PLAN
EPA300	ELECTRICAL ROOF PLAN
EYA100	ELECTRICAL SYSTEMS PLAN
EA500	ELECTRICAL DETAILS
EA501	ELECTRICAL DETAILS
EA502	ELECTRICAL DETAILS
EA503	ELECTRICAL DETAILS
EA600	ELECTRICAL SCHEDULES
EA601	ELECTRICAL SCHEDULES

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ELECTRICAL COVER PAGE EA000

LIGHTING CONTROLS	
TYPE	**DESCRIPTION**
1	AUTO ON / AUTO OFF AFTER 20 MINUTES OF BEING UNOCCUPIED
2	MANUAL ON / OFF DUE TO SAFETY CONCERNS
3	AUTO ON TO 50%, MANUAL ON TO 100% / AUTO OFF AFTER 20 MINUTES OF BEING UNOCCUPIED

NOTES:

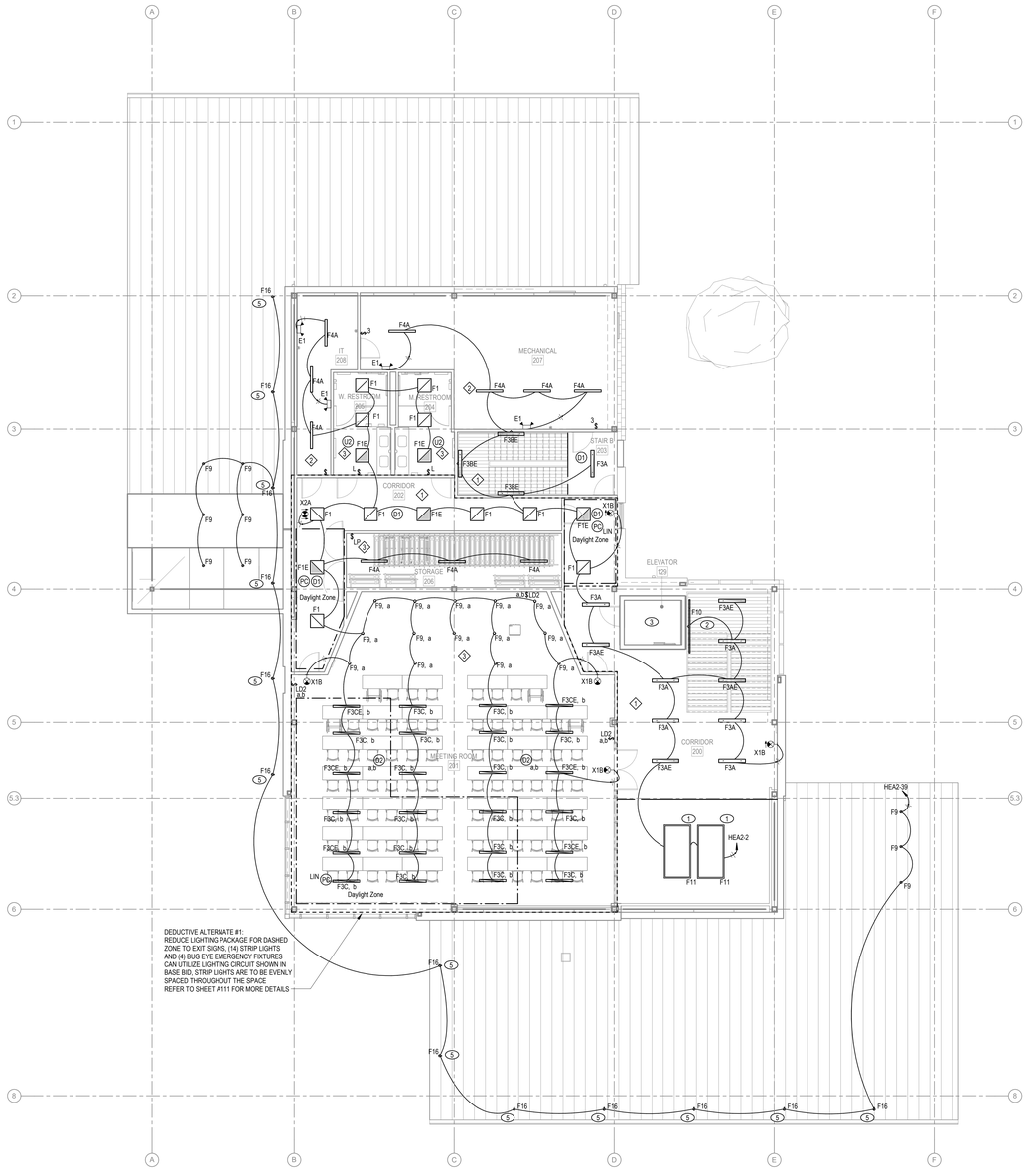
1. LIGHTING CONTROLS SHALL MEET INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2021).
2. THE SWITCHES AND OCCUPANCY SENSORS SHOWN IN A ROOM SHALL CONTROL ALL LIGHTING ZONES IN THE ROOM UNLESS NOTED IN THE OTHER WITH A SUBSCRIPT ON THE SWITCH OR OCCUPANCY SENSORS.
3. LIGHTING WITHIN ROOMS SHALL BE CONTROLLED BY THE DEVICES SHOWN WITHIN THE ROOM UNLESS NOTED OTHERWISE WITHIN THIS NARRATIVE.
4. ALL FIXTURES WITHIN 15' OF EXTERIOR FENESTRATION SHALL UTILIZE DAYLIGHT HARVESTING ZONE IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). FIXTURES WITHIN ZONE SHALL ALSO BE CONTROLLED BY OCCUPANCY SENSORS AND SWITCHES LOCATED IN THE ROOM AS INDICATED ON DRAWINGS.
5. SUBSCRIPTS INDICATED ON PLANS SUCH AS 'a' 'b' ETC. INDICATE A MULTIZONE ROOM. THE CORRESPONDING SWITCHES IN ROOM FOR ZONE LABELED WITH THE SAME SUBSCRIPT SHALL CONTROL THAT ZONE.
6. IF NO SUBSCRIPTS ARE SHOWN WITHIN A ROOM, ALL LIGHTS WITHIN THAT ROOM WILL BE CONTROLLED AS A SINGLE ZONE.
7. PROVIDED 0-10V CONTROL WIRING TO ALL LUMINAIRES SERVED BY 0-10V DIMMING DEVICES.
8. EXTERIOR FIXTURES SHOWN ON PLAN SHALL BE CIRCUITED TOGETHER AND CONTROLLED VIA TIMER WITH EXTERIOR PHOTOCELL OVERRIDE.

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO COORDINATE FINAL SECURITY CAMERA PLACEMENTS ON SITE LIGHTING POLE PRIOR TO ORDERING LIGHT POLES. REFER TO TECHNOLOGY PLANS FOR EXACT CAMERA PLACEMENT ON POLES.

KEYED NOTES:

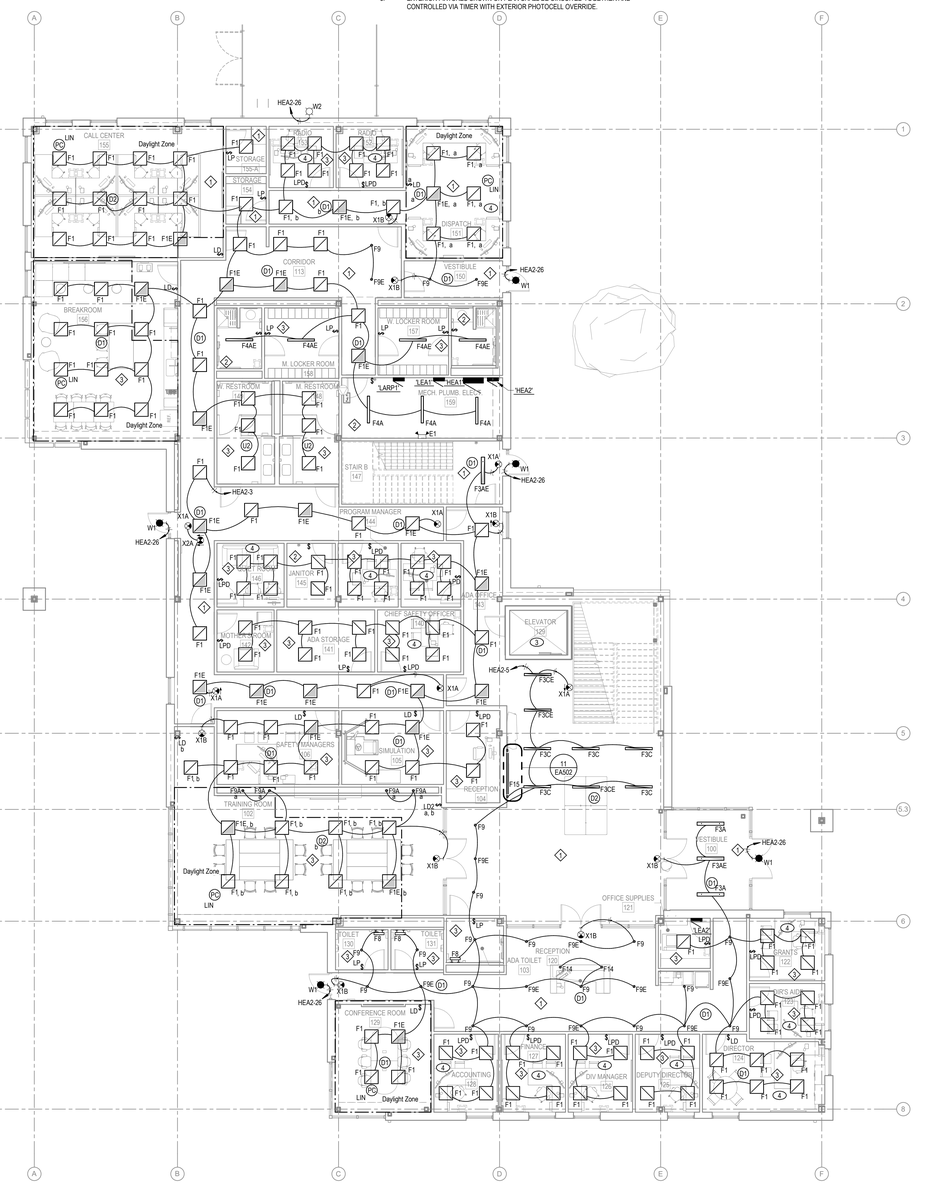
1. GLOWBALL CANOPY SHALL HAVE 50 DROPS IN A RANDOM PATTERN. COORDINATE FINAL PATTERN WITH MANUFACTURER PROVIDED DRAWINGS. LONGEST DROP SHALL BE 20' AFF.
2. CONNECT TO NIGHTLIGHT CIRCUIT. CONTRACTOR TO FIELD VERIFY MOUNTING ANGLE TO PROPERLY LIGHT WALL MURAL.
3. REFER TO ELEVATOR DETAIL ON 4/EA500 FOR ELEVATOR LIGHTING REQUIREMENTS. ALL ELEVATOR LIGHTING SHALL BE CIRCUITED TO HEA2-34. ALL PIPING/ CONDUIT/ DUCT LOCATED IN HOIST-WAY MUST BE DIRECTLY RELATED TO ELEVATOR OPERATION.
4. "F1" FIXTURES WITHIN ROOM SHALL BE SET TO THE "LOW" OUTPUT SETTING.
5. FIXTURE SHALL BE INSTALLED IN CENTER OF ROOF SOFFIT. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.



N

1 ELECTRICAL LIGHTING SECOND FLOOR PLAN

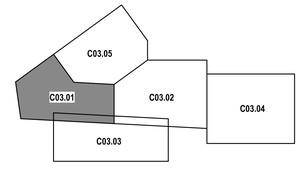
1/8" = 1'-0"



N

2 ELECTRICAL LIGHTING FIRST FLOOR PLAN

1/8" = 1'-0"



KEY MAP

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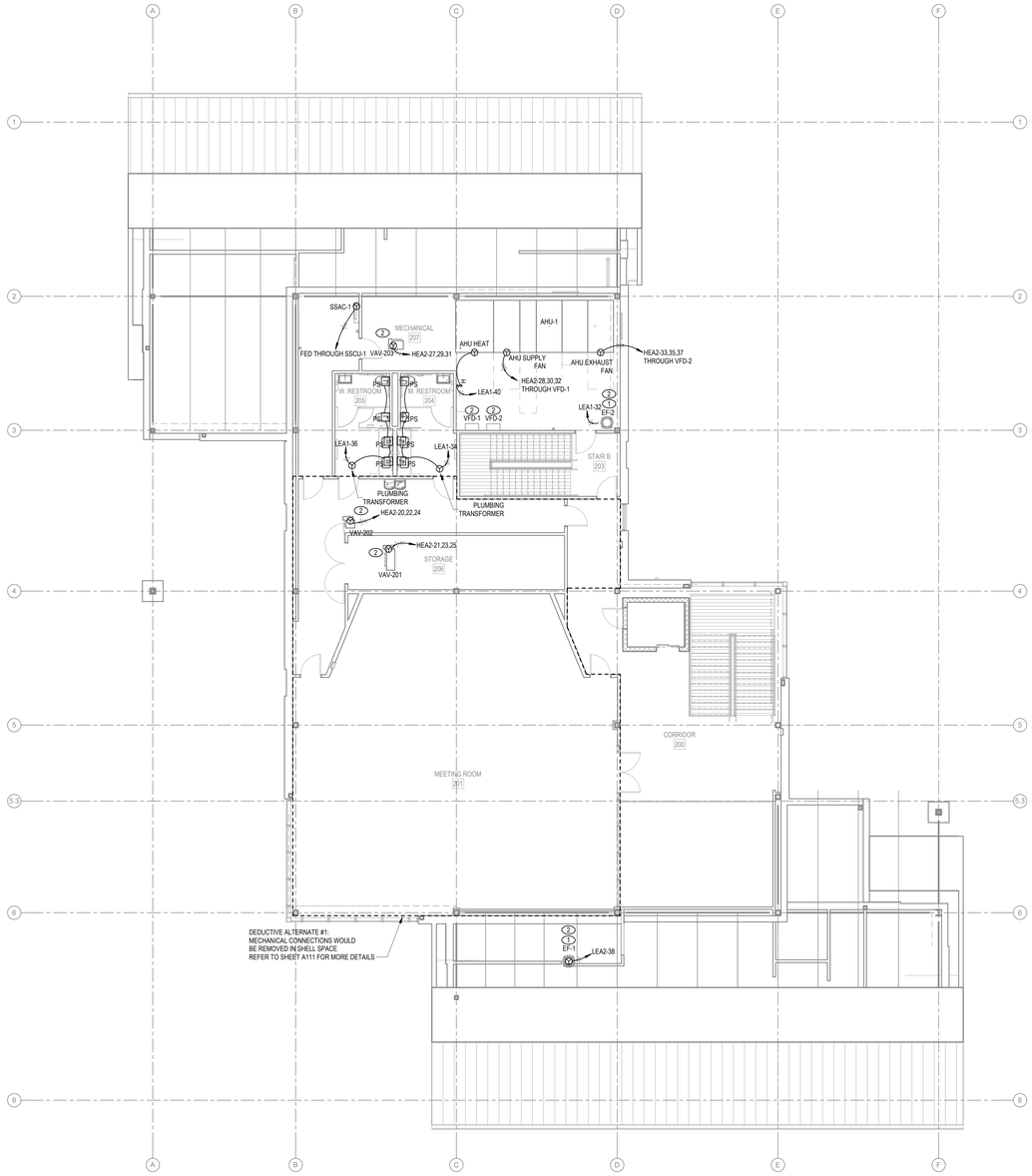
ELECTRICAL LIGHTING PLAN **ELA100**

GENERAL NOTES:

1. COORDINATE FINAL POWER LOCATION OF PLUMBING SENSOR TRANSFORMER FOR EASY MAINTENANCE ACCESS PRIOR TO ROUGH-IN (TYPICAL).
2. PLUMBING SENSOR TRANSFORMER CORD AND PLUG DISCONNECT. REFER TO PLUMBING SCHEDULE FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. REFER TO 3/TA500 FOR WIRELESS ACCESS POINT DETAIL
2. DISCONNECT PROVIDED BY MANUFACTURER



N

1 MECHANICAL POWER PLAN SECOND FLOOR

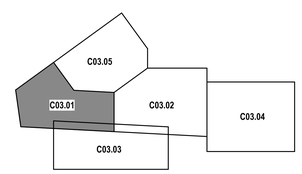
1/8" = 1'-0"



N

2 MECHANICAL POWER PLAN FIRST FLOOR PLAN

1/8" = 1'-0"



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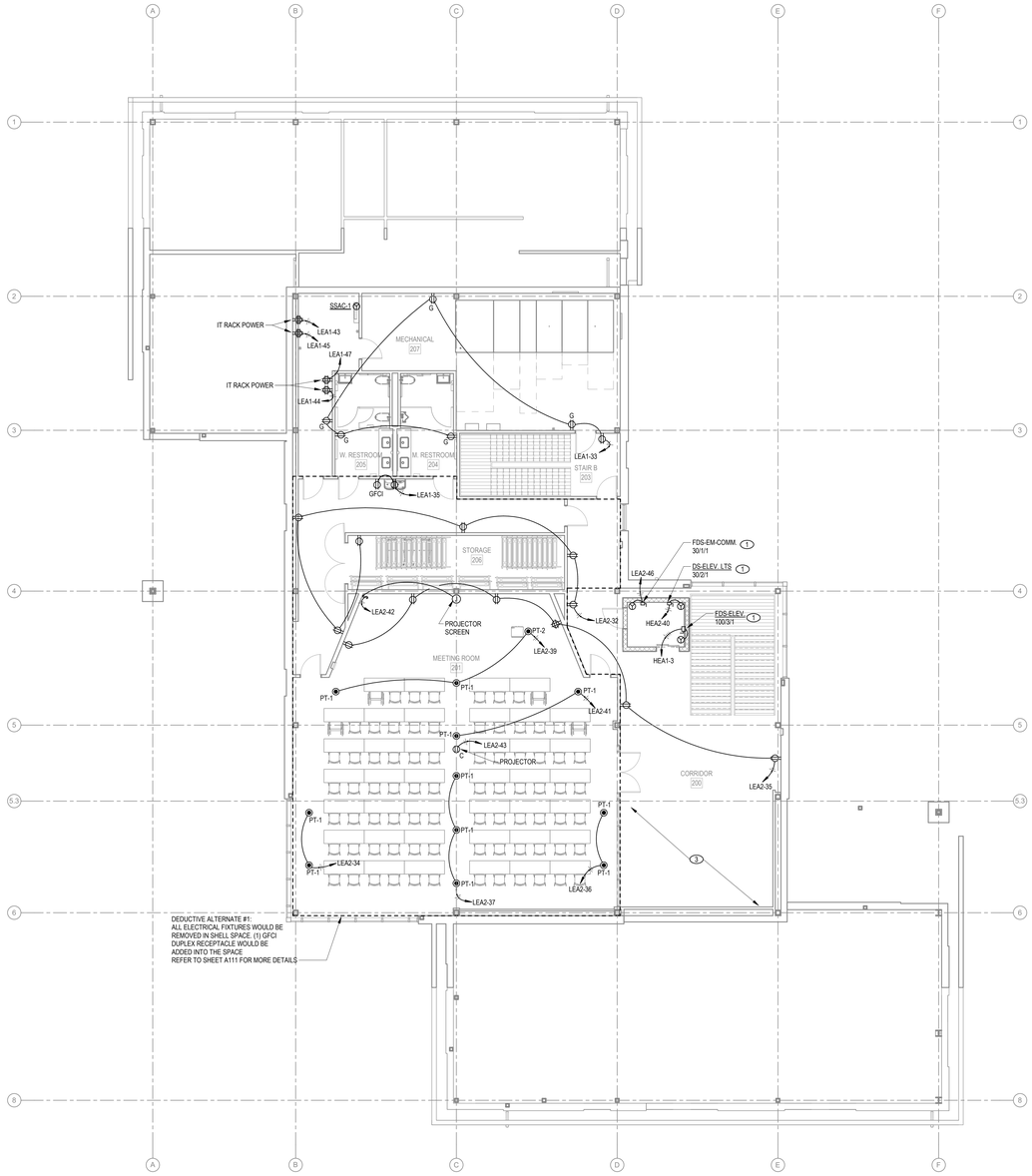
MECHANICAL POWER PLAN **EMA100**

GENERAL NOTES:

1. COORDINATE FINAL MOUNTING HEIGHT OF TV'S WITH TECHNOLOGY DRAWINGS AND OWNER PRIOR TO ROUGH-IN.
2. ELECTRICAL CONTRACTOR TO ROUTE CONDUIT PATH FROM FLOOR BOX(ES) TO WALL MOUNTED TV WITHIN SPECIFIED ROOM (TYP).

KEYED NOTES:

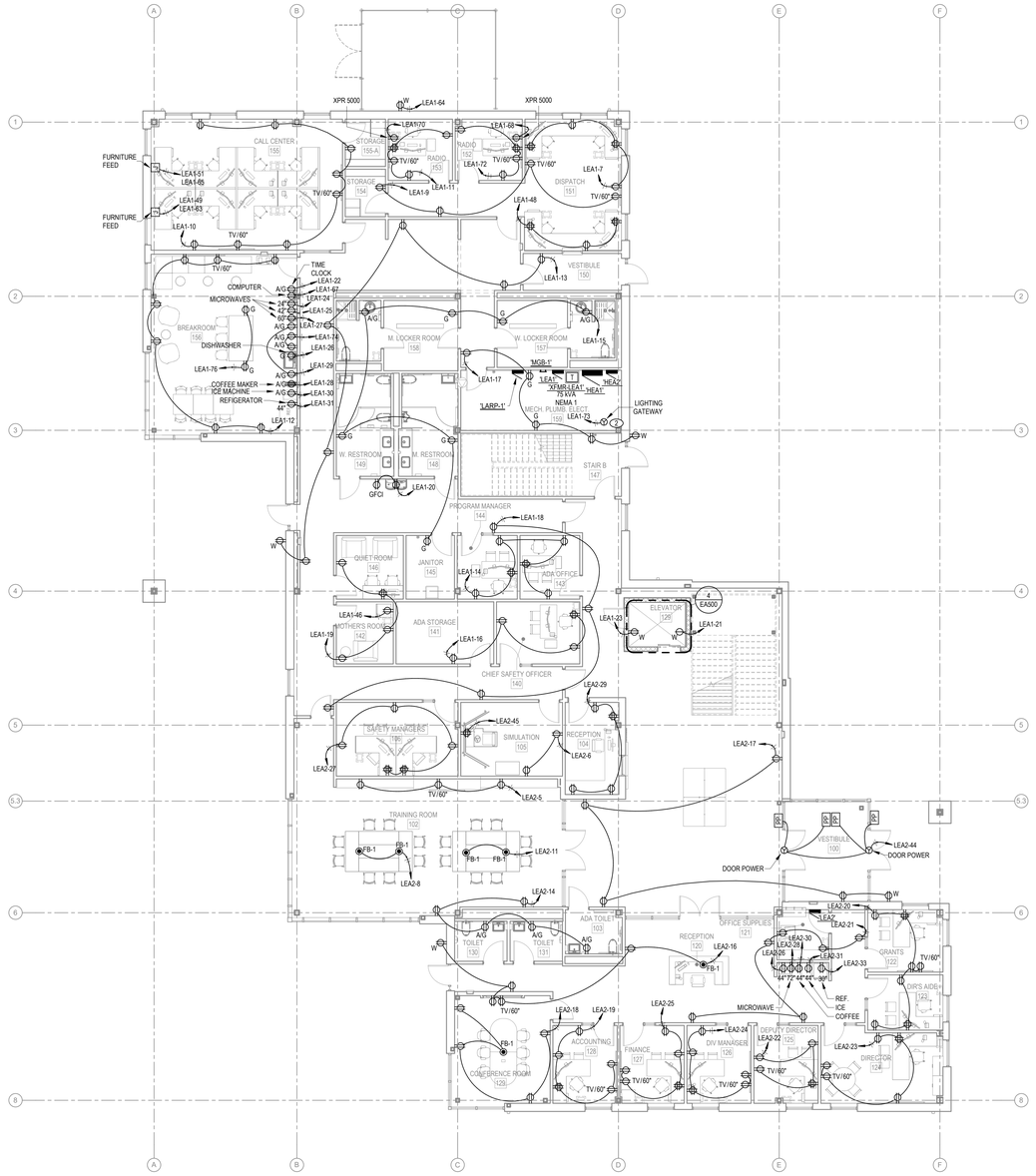
1. ELECTRICAL CONTRACTOR TO CONFIRM ELEVATOR POWER REQUIREMENTS PRIOR TO ROUGH-IN WITH ELEVATOR MANUFACTURER.
2. GATEWAY CONNECTION FOR EXTERIOR LIGHTING CONTROL. NETWORK BACK TO EXTERIOR PHOTOCELL ON MAINTENANCE BUILDING FOR CAMPUS CONTROL.
3. AREA OPEN TO BELOW.



N

1 ELECTRICAL POWER SECOND FLOOR PLAN

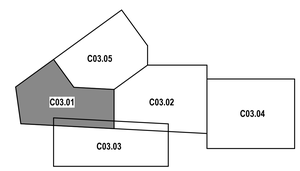
1/8" = 1'-0"



N

2 ELECTRICAL POWER FIRST FLOOR PLAN

1/8" = 1'-0"



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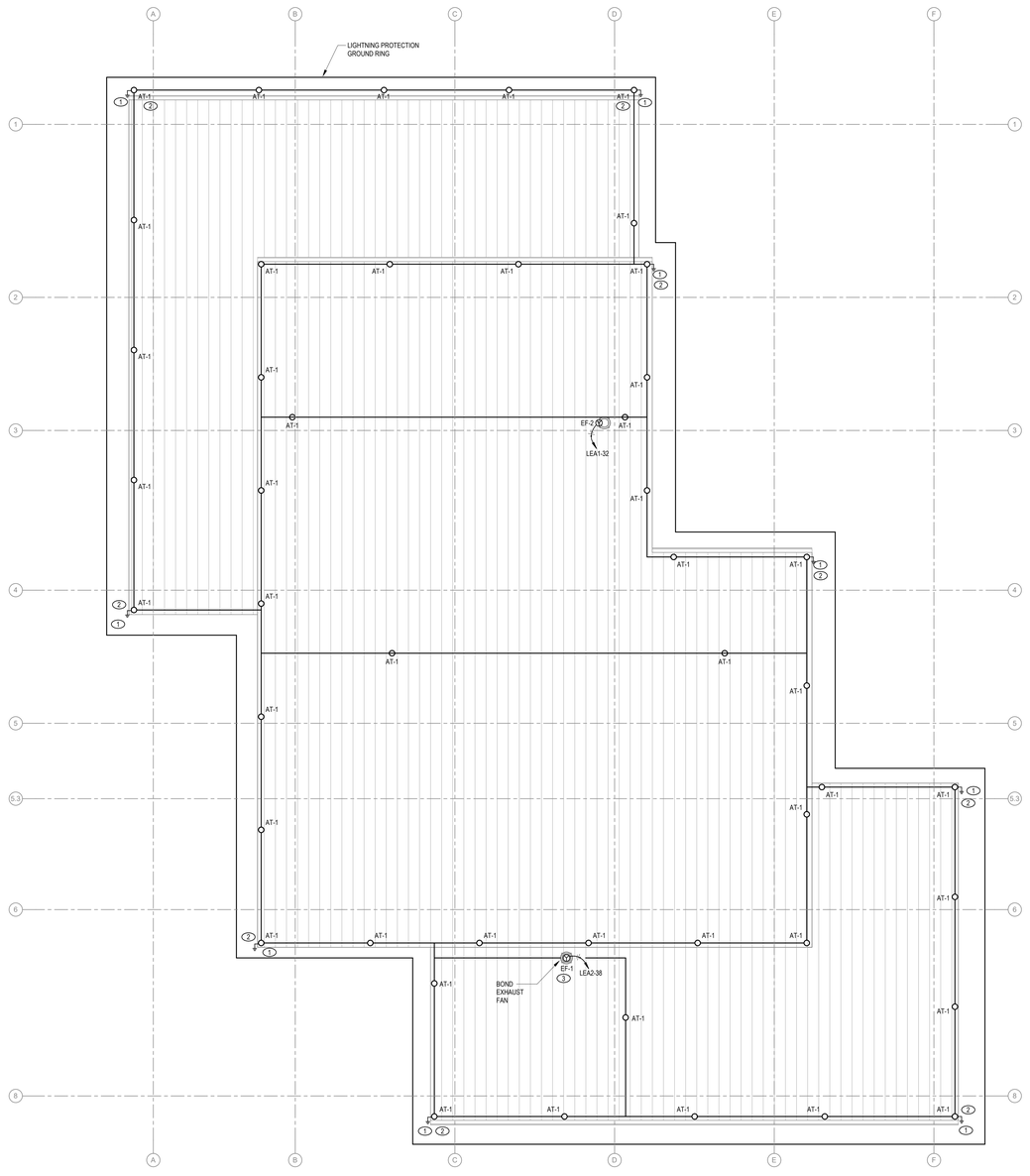
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ELECTRICAL POWER PLAN EPA100

GENERAL ELECTRICAL SCHEDULE		
⏚	GROUND ROD LOCATION	CAT. NO 10T COPPER BONDING WIRE (14 STR., X 17 GA.)

KEYED NOTES:

1. PROVIDE LIGHTNING PROTECTION DOWNLEAD CONDUCTOR VIA ROOF PENETRATION. CONNECT DOWNLEAD CONDUCTOR TO BUILDING STEEL. REFER TO LIGHTNING PROTECTION DETAILS ON SHEET EA502 AND MANUFACTURER'S SHOP DRAWINGS FOR ADDITIONAL INFORMATION. INSTALL 3/3" X 10' COPPER CLAD GROUND ROD FOR CONNECTION TO THE DOWNLEAD CONDUCTOR.
2. CONNECT DOWNLEAD CONDUCTOR TO BUILDING GROUNDING RING.
3. REFER TO S/TA501 FOR TV ELEVATION.

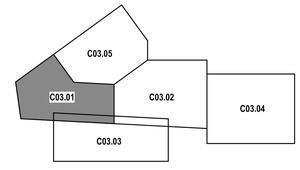


N

1 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

NOTES:

1. REFER TO EA502 FOR LIGHTNING PROTECTION INSTALLATION DETAILS.
2. ALL LIGHTNING PROTECTION DOWN CONDUCTORS SHALL BE ROUTED WITHIN BUILDING WALL, COLUMNS AND UTILITY CHASES. CONCEALED CONDUCTORS SHALL BE INSTALLED IN NONMETALLIC PVC SLEEVES WHERE PASSING THROUGH FLOORS, WALLS AND FOUNDATIONS. BOND ALL METALLIC SYSTEMS WITHIN SIDE-FLASH DISTANCE IN ACCORDANCE WITH NFPA 780. FIRESTOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH LISTED FIRE STOP SYSTEMS.
3. ALL CONDUCTORS SHALL BE COPPER.
4. THE DESIGN & DETAILS SHOWN WILL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORY CODE 96/96A, NATIONAL FIRE PROTECTION ASSOCIATION CODE 780 & THE LIGHTNING PROTECTION INSTITUTE CODE 175 FOR LIGHTNING PROTECTION SYSTEMS.
5. A CONDUCTOR BEND SHALL NOT FORM A SHARPER ANGLE THAN 90 DEGREES OR HAVE RADIUS LESS THEN 8 INCHES.
6. METAL BODIES OF INDUCTANCE LOCATED WITHIN 6' OF A MAIN LIGHTNING COMPONENT SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM. (INCLUDING BUT NOT LIMITED TO METAL VENTS, FLASHING, LOUVERS & ROOF DRAINS).
7. CONNECTIONS TO GROUND AND/ OR COUNTERPOISE SHALL BE MADE AT A POINT NOT LESS THAN 2'-0" BELOW GRADE, AND 3'-0" TO 8'-0" AWAY FROM FOUNDATION WALL.
8. AIR TERMINAL SHALL BE PLACED AT THE LOCATIONS INDICATED, NOT MORE THAN 2'-0" FROM THE ENDS OF RIDGES, OUTSIDE CORNERS, OR OUTSIDE EGRESS OF MAIN ROOFS, AND MUST EXTEND A MINIMUM OF 10" ABOVE THE OBJECTS TO BE PROTECTED.
9. MID-ROOF AIR TERMINALS SHALL BE SPACED AT 40'-0" O.C. MAX. SPACING.
10. PERIMETER AIR TERMINALS THAT ARE LESS THAN 24" IN HEIGHT SHALL BE SPACED AT 20'-0" O.C. MAX PERIMETER AIR TERMINALS THAT AREA 24" IN HEIGHT OR GREATER SHALL BE SPACED AT 25'-0" O.C. MAX.
11. JOB CONDITIONS MAY DICTATE SLIGHT VARIATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS, BUT IN NO INSTANCE SHALL A VARIATION BREAK COMPLIANCE WITH THESE NOTES AND REQUIREMENTS.
12. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD PATH FREE FROM "U" AND "V" POCKETS. ANY RISE IN CONDUCTOR SHALL BE NO STEEPER THAN 3" OF RISER PER 12" OF RUN.
13. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE PLACED ON ALUMINUM, GALVANIZED, OR BARE GALVANIZED STEEL SURFACES. ALUMINUM MATERIALS SHALL NOT BE PLACED ON COPPER SURFACES.
14. FOR THE SAKE OF CLARITY EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS IS NOT CALLED OUT ON THE ROOF PLAN. SHOWN ARE TYPICAL DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN, ONLY IN SCATTERED LOCATIONS.
15. ALL MISCELLANEOUS STEEL INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, REBAR, FRAMING & RAILINGS, SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGH CONSTRUCTION (NOT THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR).
16. ELECTRIC, TELEPHONE, ANTENNA SYSTEM, AND OTHER MISCELLANEOUS GROUNDING SHALL BE CONNECTED WITH MAIN SIZED CONDUCTOR TO ANY LIGHTNING PROTECTION GROUND.
17. A LIGHTNING ARRESTOR, PROTECTOR, OR ANTENNA DISCHARGE UNIT MUST BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE ENTRANCE AND RADIO AND TELEVISION ANTENNA LEAD IN. (TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR).
18. ALL ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH ROOFING MATERIAL. ADHESIVES SHALL BE APPROVED IN ADVANCE BY THE ROOFING CONTRACTOR.
19. BOND ALL METAL PIPES SUCH AS WATER, GAS, FIRE, STORM, SEWER WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLOAD, GROUND ROD OR COUNTERPOISE.
20. SEAL THE ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL, SILICONE OR LEAD WEDGES (NOT THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR).
21. CABLE MUST BE FASTENED EVERY 3'-0" O.C. MAXIMUM.
22. THE LIGHTNING PROTECTION INSTALLER IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE THE WORK IS STARTED. INSTALLERS WHO FAIL TO VERIFY, REVIEW, AND COORDINATE THE WORK SHALL TAKE FULL RESPONSIBILITY FOR THE WORK AND ANY PORTION OF THE WORK THAT IS IMPROPERLY INSTALLED OR LOCATED. THE INSTALLER SHALL NOTIFY THE DESIGNER IF DIMENSIONAL ERRORS OR DESIGN CONFLICTS OCCUR, AND SHALL PROCEED ONLY UPON CLARIFICATION OR REVISION AS ISSUED BY ROBBINS LIGHTNING, INC.
23. ALL LIGHTNING PROTECTION SYSTEMS REQUIRE PROPERLY INSTALLED SURGE PROTECTIVE DEVICES AS OUTLINED IN PARAGRAPH 13 OF UL 96A.
24. WHERE POSSIBLE, SECURELY INSERT CABLE INTO EXISTING SPLICER OR POINT BASE TO CONSERVE SPLICERS.
25. PICTURES NEED TO BE TAKEN WHERE BONDS ARE GOING TO BE CONCEALED OR BURIED SUCH AS WATER, GAS, & ELECTRIC BONDS, GROUND RODS, THRU WALLS & THRU ROOFS. (INTERIOR PICTURES).
26. THIS SYSTEM INCLUDES BONDING TO GAS PIPING PER CURRENT CODES. IF "CSST" GAS PIPING IS PRESENT, CURRENT PRACTICE MAY BE INADEQUATE TO PREVENT FLASHOVER FROM THE LIGHTNING PROTECTION SYSTEM. BONDING METHODS ARE UNDER CODE REVIEW. THE LIGHTNING PROTECTION MANUFACTURER, INSTALLER, LPI AND LPI-IP ACCEPT NO LIABILITY DUE TO LACK OF CONSENSUS ON MEASURES REQUIRED TO PREVENT DAMAGE, INJURY, OR LOSS DUE TO "CSST" FAILURES.
27. ALL ADDITIONAL GROUNDING SHALL BE PROVIDED & INSTALLED BY OTHERS. I.E.: TRANSFORMER, BUS-BAR, ETC.



KEY MAP

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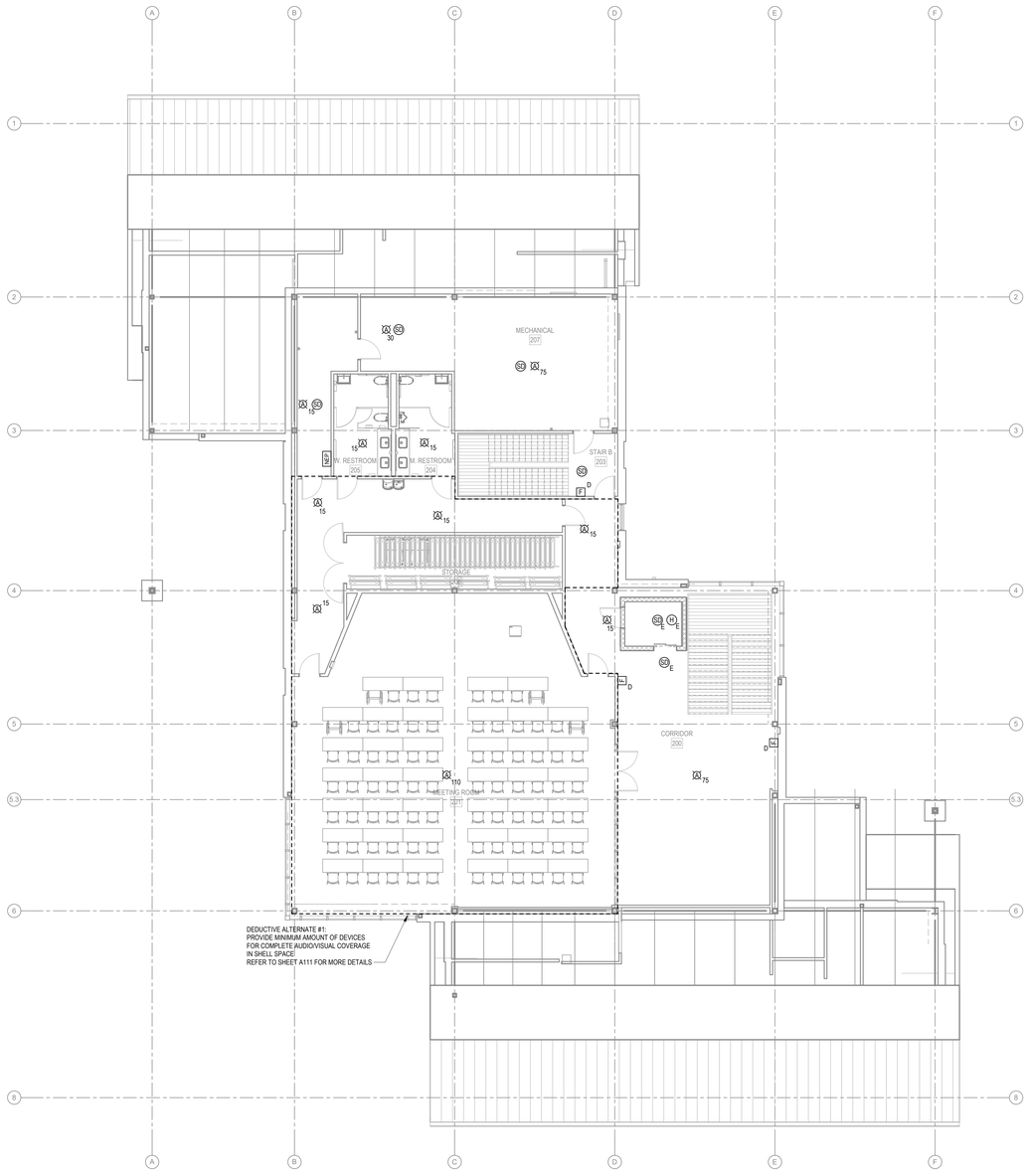
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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ELECTRICAL ROOF PLAN **EPA300**

KEYED NOTES:

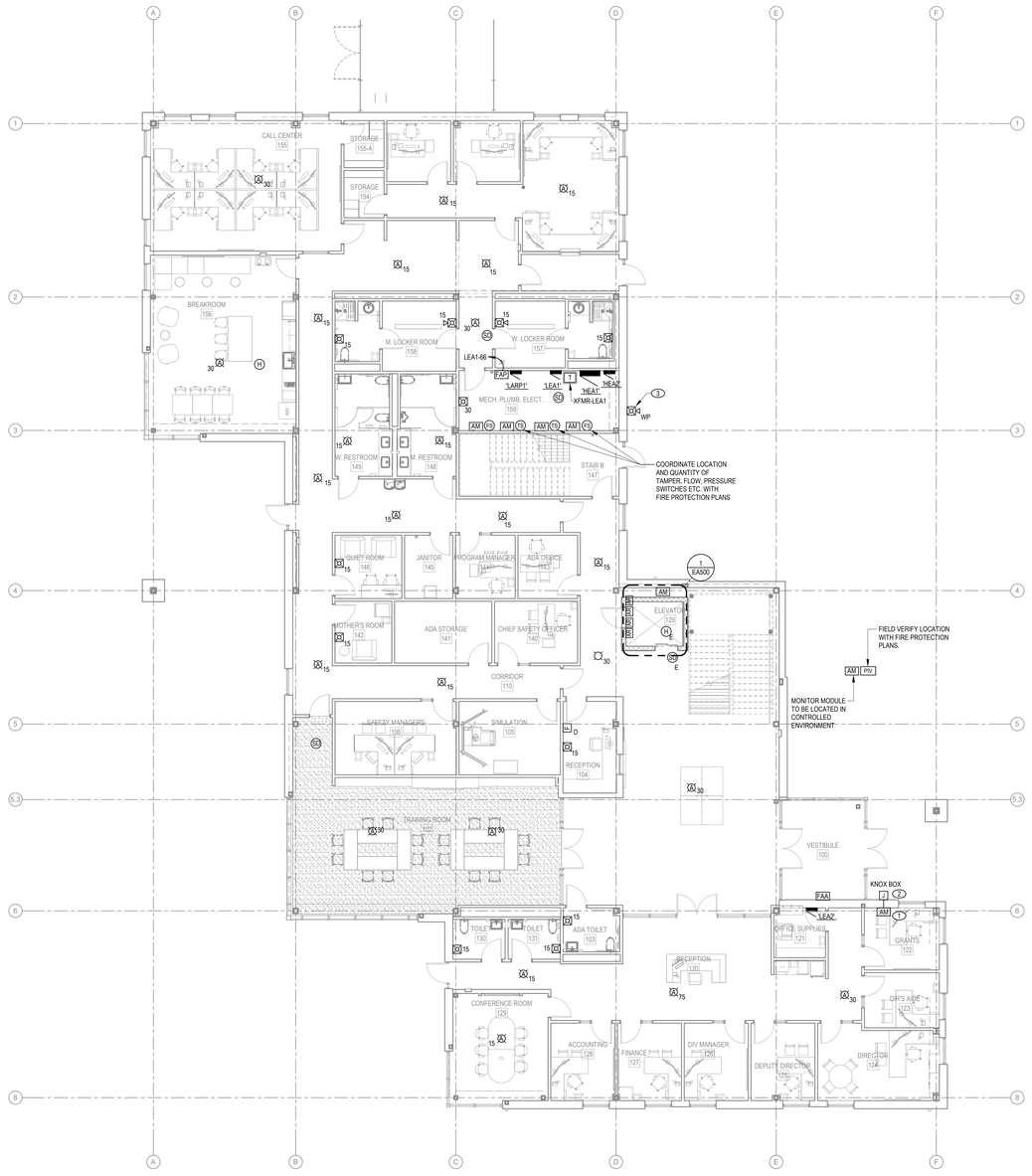
1. CONNECT MONITOR MODULE TO DOOR CONTACT IN KNOX BOX. COORDINATE WITH G.C.
2. KNOX BOX. COORDINATE EXACT LOCATION WITH ARCHITECT AND G.C. PRIOR TO ROUGH-IN.
3. COORDINATE FIRE ALARM NOTIFICATION DEVICE ABOVE FDC. REFER TO SPRINKLER PLANS FOR ADDITIONAL INFORMATION.



N

1 ELECTRICAL SYSTEMS SECOND FLOOR PLAN

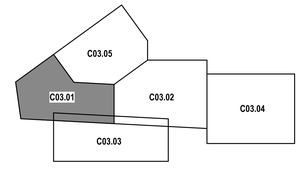
1/8" = 1'-0"



N

2 ELECTRICAL SYSTEMS FIRST FLOOR PLAN

1/8" = 1'-0"



KEY MAP

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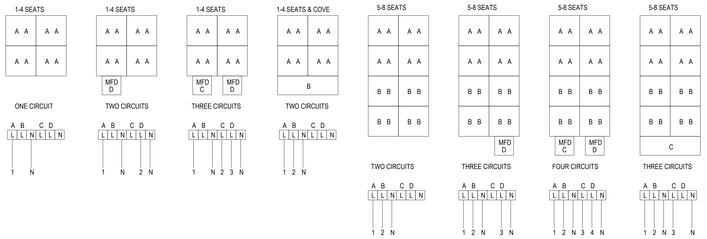
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ELECTRICAL SYSTEMS PLAN EYA100



7 FURNITURE WIRING DIAGRAM

N.T.S.

NOTES:

1. CIRCUITS 'A' AND 'B' ARE TO SHARE A NEUTRAL. CIRCUITS 'C' AND 'D' ARE TO SHARE A NEUTRAL.
2. THE CONTRACTOR SHALL CIRCUIT THE PANELBOARDS AS SHOWN ON THE DRAWINGS. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER. SHOULD THE DIFFERENCE AT ANY PANELBOARD BETWEEN PHASES EXCEED 10 PERCENT, REARRANGE CIRCUITS IN THE PANELBOARD TO BALANCE THE PHASE LOADS WITHIN 10 PERCENT.

6 TOILET FLUSH VALVE ROUGH-IN DETAIL

N.T.S.

NOTES:

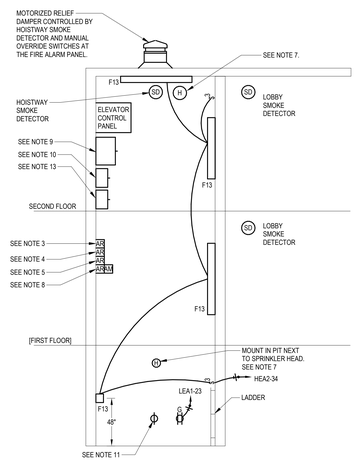
1. ROUGH-IN IS FOR A TYPICAL TOILET FLUSH VALVE. ACTUAL ROUGH-IN SHALL BE COORDINATED IN THE FIELD WITH THE APPROVED PLUMBING SHOP DRAWINGS AND THE VENDORS TEMPLATE AND/OR SUPPORT KIT.
2. FAILURE TO PROPERLY POSITION THE ELECTRICAL BOXES TO THE PLUMBING ROUGH-IN WILL RESULT IN IMPROPER INSTALLATION AND IMPAIR PERFORMANCE.
3. ELECTRICAL ROUGH-INS SHALL BE A 4" SQUARE, 2-1/8" DEEP BOXES WITH A TWO-GANG MUD RING. MUD RING SHALL BE INSTALLED WITH THE DEVICE SCREWS ON THE LEFT AND RIGHT SIDE OF THE BOX.
4. POSITION OF THE SENSOR BOX CAN BE RAISED OR LOWERED 1" IF IN CONFLICT WITH HANDICAP GRAB BARS.
5. PROVIDE 120V CONNECTION TO THE LOW VOLTAGE TRANSFORMER, PROVIDED BY THE P.C., AND PROVIDE LV WIRING FROM THE TRANSFORMER TO THE UNIT, OR UNITS, PER THE APPROVED PLUMBING SHOP DRAWINGS. COORDINATE SENSOR LOCATION ABOVE THE CEILING TO ENSURE IT IS LOCATED IN AN ACCESSIBLE SPACE.

5 URINAL FLUSH VALVE ROUGH-IN DETAIL

N.T.S.

NOTES:

1. ROUGH-IN IS FOR A TYPICAL URINAL FLUSH VALVE. ACTUAL ROUGH-IN SHALL BE COORDINATED IN THE FIELD WITH THE APPROVED PLUMBING SHOP DRAWINGS AND THE VENDOR'S TEMPLATE AND/OR SUPPORT KIT.
2. FAILURE TO PROPERLY POSITION THE ELECTRICAL BOX TO THE PLUMBING ROUGH-IN WILL RESULT IN IMPROPER INSTALLATION AND IMPAIR PERFORMANCE.
3. ELECTRICAL ROUGH-IN SHALL BE A 4" SQUARE, 2-1/8" DEEP BOX WITH A TWO-GANG MUD RING. MUD RING SHALL BE INSTALLED WITH THE DEVICE SCREWS ON THE LEFT AND RIGHT SIDE OF THE BOX.
4. PROVIDE 120V CONNECTION TO THE LOW VOLTAGE TRANSFORMER, PROVIDED BY THE P.C., AND PROVIDE LV WIRING FROM THE TRANSFORMER TO THE UNIT, OR UNITS, PER THE APPROVED PLUMBING SHOP DRAWINGS. COORDINATE SENSOR LOCATION ABOVE THE CEILING TO ENSURE IT IS LOCATED IN AN ACCESSIBLE SPACE.

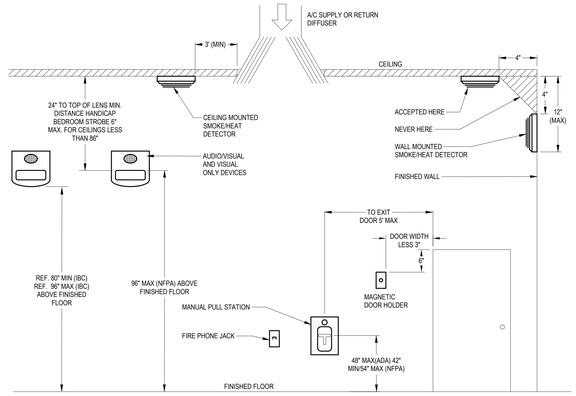


4 ELEVATOR SCHEMATIC DETAIL

N.T.S.

NOTES:

1. ALL SMOKE DETECTORS SHALL ALARM THE FIRE ALARM SYSTEM.
2. ELECTRICAL CONTRACTOR TO VERIFY THE LOCATION OF ALL DEVICES WITH THE ELEVATOR INSTALLER PRIOR TO ROUGHING-IN.
3. PROVIDE AN ADDRESSABLE RELAY IN THE ELEVATOR MACHINE ROOM THAT ACTIVATES "ALTERNATE FLOOR RECALL" WHEN A SMOKE DETECTOR LOCATED IN THE FIRST FLOOR ELEVATOR LOBBY GOES INTO ALARM.
4. PROVIDE AN ADDRESSABLE RELAY IN THE ELEVATOR MACHINE ROOM THAT ACTIVATES "DESIGNATED FLOOR RECALL" WHEN A SMOKE DETECTOR LOCATED IN THE GROUND OR SECOND FLOOR ELEVATOR LOBBY GOES INTO ALARM.
5. PROVIDE AN ADDRESSABLE RELAY IN THE ELEVATOR MACHINE ROOM THAT ACTIVATES "ELEVATOR UNSAFE" WHEN A SMOKE DETECTOR LOCATED IN THE HOISTWAY OR ELEVATOR MACHINE ROOM GOES INTO ALARM.
6. LOBBY SMOKE DETECTOR ACTIVATION SHALL RELEASE ELEVATOR DOOR HOLD-OPEN DEVICES. PROVIDE A RELAY PER ELEVATOR BANK FOR CONTROL OF THE DOOR HOLDERS. PROVIDE CONDUIT AND WIRING TO DOOR HOLDERS AS SHOWN ON THE FIRE ALARM SHOP DRAWINGS.
7. IF THE ELEVATOR MACHINE ROOM OR ELEVATOR HOISTWAY IS SPRINKLERED, PROVIDE HEAT DETECTORS SHOWN. ACTIVATION OF THESE HEAT DETECTORS SHALL DISCONNECT POWER TO THE ELEVATOR EQUIPMENT BY ENERGIZING THE SHUNT TRIP COIL IN THE CIRCUIT BREAKER SERVING THE ELEVATOR. PROVIDE AN ADDRESSABLE RELAY(S) FOR THIS FUNCTION AND MAKE CONNECTIONS TO THE SHUNT TRIP COIL.
8. PROVIDE AN ADDRESSABLE RELAY TO CONTROL THE SHUNT TRIP BREAKER FEEDING THE ELEVATOR. PROVIDE A MONITOR MODULE TO MONITOR ELEVATOR SHUNT TRIP POWER.
9. FUSED DISCONNECT FOR ELEVATOR CONTROLLER POWER. FDS-ELEV [A/B/C/D]. REFER TO GENERAL ELECTRICAL SCHEDULE ON SHEET EA600.
10. NON-FUSED DISCONNECT FOR ELEVATOR CAB LIGHTS. DS-ELEV LTS 30/2/1. REFER TO GENERAL ELECTRICAL SCHEDULE ON SHEET EA600.
11. SIMPLEX RECEPTACLE FOR SUMP PUMP. RECEPTACLE POWERED THROUGH SUMP PUMP CONTROL PANEL WHICH IS PROVIDED BY OTHERS. REFER TO [DRAWING] FOR CONTROL PANEL LOCATION.
12. REFER TO [DRAWING] FOR HVAC EQUIPMENT REQUIRMENTS FOR COOLING OF MACHINE ROOM.
13. PROVIDE DEDICATED 15 AMO, 120V CIRCUIT FOR EMERGENCY COMMUNINATION SYSTEM LOCATED WITHIN ELEVATOR. PROVIDE 30 AMP FUSED NEMA 1 DISCONNECT IN ELEVATOR EQUIPMENT ROOM OR CONTROLLER LOCATION.
14. ELEVATOR CONTROLLER SHALL BE CONNECTED TO EMERGENCY GENERATOR TO OPERATE IN THE EVENT OF POWER LOSS.



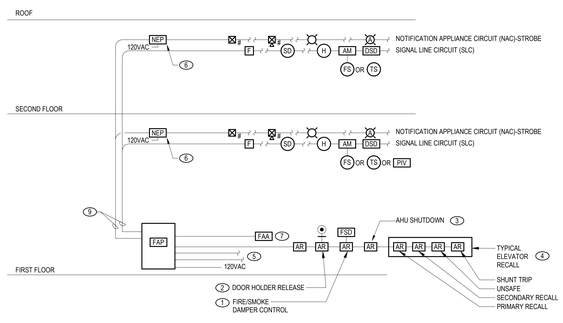
3 FIRE ALARM DEVICE MOUNTING HEIGHT

N.T.S.

		SYSTEM OUTPUTS																				
		FACP ANNUNCIATION						NOTIFICATION			REQUIRED FIRE SAFETY CONTROL										
	SYSTEM INPUTS	A ACTUATE COMMON ALARM SIGNAL INDICATOR	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D ACTUATE AUDIBLE SUPERVISORY SIGNAL	E ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F ACTUATE AUDIBLE TROUBLE SIGNAL	G ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	H ACTUATE VISIBLE & AUDIBLE ALARM ANNUNCIATION	I TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	J TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	K TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	L RELEASE MAGNETICALLY HELD DOORS	M ACTUATE WDN DOOR CLOSURE	N RECALL ELEVATOR TO RECALL FLOOR	O RECALL ELEVATOR TO ALTERNATE RECALL FLOOR	P ACTUATE WARNING TO ELEVATOR CABS	Q DELAYED REMOVAL OF POWER FROM ELEVATOR	R CLOSE SMOKE DAMPERS ASSOCIATED WITH THE DETECTOR(S) IN ALARM	S UNLOCK EXITS AND CONTROL DOORS	T SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT
1	FIRE ALARM SYSTEM AC POWER FAILURE					X	X					X										
2	FIRE ALARM SYSTEM LOW BATTERY					X	X					X										
3	OPEN CIRCUIT					X	X					X										
4	GROUND FAULT					X	X					X										
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X					X										
6	BUILDING MANUAL PULL STATIONS	X	X					X	X	X			X								X	
7	CORRIDOR SMOKE DETECTORS	X	X					X	X	X			X							X	X	
8	AREA SMOKE DETECTORS	X	X					X	X	X			X								X	
9	HVAC AIR DUCT SMOKE DETECTORS			X	X			X			X									X		X
10	AREA HEAT DETECTORS	X	X					X	X	X			X								X	
11	HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM	X	X					X	X	X			X								X	
12	SPRINKLER TAMPER SWITCH			X	X			X			X											
13	SPRINKLER WATER FLOW SWITCH	X	X					X	X	X			X								X	
14	SPRINKLER AIR PRESSURE SWITCH			X	X			X			X											
15	ELEV EQUIP RM AREA SMOKE DETECTOR	X	X					X	X	X					X		X					
16	ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS	X	X					X	X	X					X		X	X				
17	ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS	X	X					X	X	X			X		X		X				X	
18	ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR	X	X					X	X	X			X			X	X				X	
19	ELEV CONTROLLER POWER SHUNT TRIP STATUS			X	X						X											X
20	AREA CO DETECTORS			X	X			X			X											

2 FIRE ALARM MATRIX

N.T.S.



1 ADDRESSABLE FIRE ALARM SYSTEM RISER

N.T.S.

NOTES:

1. THE FIRE ALARM RISER DIAGRAM IS MEANT TO CONVEY THE GENERAL SCOPE OF WORK AND SHOULD NOT BE USED AS A DETAILED WIRING SCHEMATIC. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITIES OF DEVICES AND CONTROL/MONITORING INTERFACES WITH OTHER BUILDING SYSTEMS (I.E. FIRE/SMOKE DAMPERS, AHU SHUT-DOWN, ELEVATOR CONTROLS, ETC.).
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AS WELL AS THE FIRE ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL 120VAC CIRCUITS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. THIS INCLUDES THE MAIN FIRE ALARM PANEL AS WELL AS ANY NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANELS. ALL 120VAC CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL BE PROVIDED WITH HANDLE LOCKS.
4. ALL FIRE ALARM WIRING SHALL BE INSTALLED EITHER IN EXISTING RACEWAY (WHERE AVAILABLE) OR FLOWN ABOVE THE FINISHED CEILING. ALL FLOWN CABLES SHALL BE PLENUM RATED AND SHALL BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM USING J-HOOKS AND OTHER APPROPRIATE SUPPORTS. COORDINATE CABLE TYPE REQUIREMENTS WITH THE FIRE ALARM SYSTEM MANUFACTURER.
5. MAINTAIN 3'-0" SEPARATION BETWEEN SMOKE DETECTORS AND HVAC DIFFUSERS.
6. ALL DEVICES SHALL BE FLUSH MOUNTED WHERE WALL AND CEILING CONSTRUCTION ALLOWS. IF FLUSH MOUNTING OF DEVICES IS NOT POSSIBLE, SURFACE MOUNT USING SURFACE BOXES AND WIREMOLD 700 SERIES METALLIC RACEWAY (OR EQUAL), PAINTED TO MATCH EXISTING FINISHES.
7. FIRE ALARM PANEL TO HAVE AN INPUT TO ACCEPT FIBER OPTIC CONNECTIONS BETWEEN PANELS FOR NETWORKING PURPOSES FOR EACH BUILDING.

KEYED NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONNECT TO FIRE/SMOKE DAMPER CIRCUITS. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF NEW ADDRESSABLE RELAYS REQUIRED FOR FIRE/SMOKE DAMPER CONTROL.
2. THE ELECTRICAL CONTRACTOR SHALL CONNECT TO DOOR RELEASE CIRCUITS. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF NEW ADDRESSABLE RELAYS REQUIRED FOR DOOR RELEASE CONTROL.
3. THE ELECTRICAL CONTRACTOR SHALL CONNECT FIRE ALARM RELAYS TO AIR HANDLING UNIT CONTROLS FOR SHUT-DOWN PURPOSES. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF ADDRESSABLE RELAYS REQUIRED FOR AHU SHUT-DOWN CONTROL.
4. REFER TO DETAIL 4/EA500 FOR THE ELEVATOR FIRE ALARM INTERFACE SCHEMATIC.
5. PROVIDE A FIBER OPTIC CONNECTION TO THE MASTER FIRE ALARM PANEL LOCATED IN THE MAINTENANCE BUILDING FOR CENTRALIZED MONITORING, SUPERVISION, ANNUNCIATION, AND STATUS REPORTING OF ALL FIRE ALARM CONTROL PANELS. INDIVIDUAL DIALERS ARE NOT REQUIRED.
6. PROVIDE NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANELS AS REQUIRED. IT IS THE FIRE ALARM SYSTEM MANUFACTURER'S RESPONSIBILITY TO DETERMINE QUANTITY OF PANELS NEEDED TO MEET THE SPECIFICATIONS. PANELS TO BE INSTALLED IN LOCATIONS APPROVED BY THE OWNER. ACCEPTABLE LOCATIONS INCLUDE: ELECTRICAL ROOMS, JANITOR'S CLOSETS, MECHANICAL ROOMS.
7. REFER TO 1/EYA100 FOR LOCATION OF GROUND LEVEL ANNUNCIATOR PANEL.
8. REFER TO SPECIFICATIONS FOR SIGNAL AND NOTIFICATION LOOP REQUIREMENTS.

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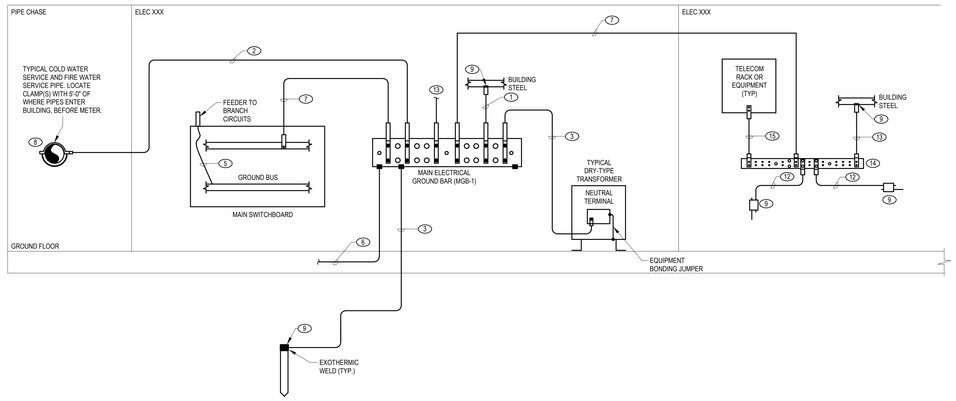
Revisions

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ELECTRICAL DETAILS **EA500**

MINIMUM BRANCH CIRCUIT FEEDER SIZE (RHW, THHW, THW, THWN, XHHW, XHWN, USE, ZE) BASED ON NEC 2020 AT 75°C			
BREAKER SIZE	PHASE/NEUTRAL	GRD	CONDUIT
20A	#12	#12	3/4"
25A	#10	#10	3/4"
30A	#10	#10	3/4"
35A	#8	#10	1"
40A	#8	#10	1"
50A	#6	#10	1"
60A	#4	#10	1-1/4"
70A	#4	#8	1-1/4"
80A	#3	#8	1-1/2"
100A	#1	#8	2"

6 ELECTRICAL BRANCH FEEDER SCHEDULE
N.T.S.



2 GROUNDING RISER DIAGRAM
N.T.S.

GENERAL NOTES:
1. SEAL ANY HOLES IN EXTERIOR WALLS OR FOUNDATIONS. FINISH TO MATCH SURFACE.
2. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL CONDUCTORS TO BE ROUTED IN CONDUIT UNLESS NOTED OTHERWISE.
4. REFER TO T-SERIES SHEETS FOR ADDITIONAL GROUND BAR DETAILS.

KEYED NOTES:
1. BUILDING STEEL GROUNDING ELECTRODE CONDUCTOR.
2. WATER SERVICE BONDING CONDUCTOR.
3. GROUNDING ELECTRODE CONDUCTOR AND ASSOCIATED GROUND RODS.
4. NOT USED.
5. EQUIPMENT GROUND CONDUCTOR; SIZE PER NEC TABLE 250.122 OR AS SHOWN ON THE PLANS.
6. CONCRETE ENCASED ELECTRODE, MINIMUM 20'-0" LENGTH.
7. MAIN GROUND BAR BONDING CONDUCTOR; #3/0 COPPER MINIMUM OR AS SHOWN ON THE PLANS.
8. PROVIDE #2/0 COPPER JUMPER OVER WATER METER AND GROUND STRAPS FOR WATER PIPING.
9. UL LISTED EXOTHERMIC OR PERMANENT COMPRESSION STYLE CONNECTION.
10. MAIN COPPER GROUNDING ELECTRODE CONDUCTOR; SIZE PER NEC TABLE 250.66 OR AS SHOWN ON THE PLANS (#2/0 MINIMUM).
11. FURNISH AND INSTALL COUNTERPOISE SYSTEM GROUND ROD USING AN EXOTHERMIC CONNECTION. VERIFY THAT SERVICE GROUND IMPEDANCE IS LESS THAN 5 OHMS.
12. INTERCONNECTING BONDING CONDUCTOR; #3/0 COPPER MINIMUM OR AS SHOWN ON THE PLANS.
13. BONDING CONDUCTOR; #6 COPPER WITH GREEN INSULATION.
14. GROUND BAR. REFER TO DRAWINGS AND GENERAL ELECTRICAL SCHEDULE FOR MORE INFORMATION.
15. BONDING CONDUCTOR BETWEEN GROUND BAR AND DATA RACK. #6 COPPER WITH GREEN INSULATION. CONDUCTOR IS NOT REQUIRED TO BE IN CONDUIT.

PANEL "___#___"

FED FROM "___#___"

(VOLTAGE)

(AIC RATING)

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN

ENGINEER: KEDbluestone

CONTRACTOR:

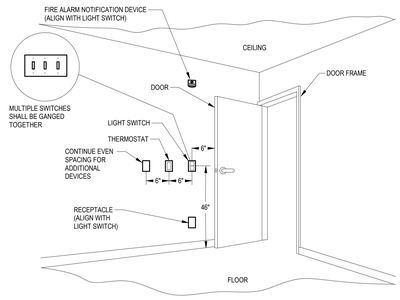
5 PANEL BOARD NAMEPLATE
N.T.S.

NOTES:

1. FOR 208V SYSTEMS, FOLLOW COLORS AS SHOWN.
2. FOR 480/277 SYSTEMS, COLOR SHALL BE AS FOLLOWS:

   PHASE A - BROWN
   PHASE B - ORANGE
   PHASE C - YELLOW
   NEUTRAL - GRAY
   GROUND - GREEN

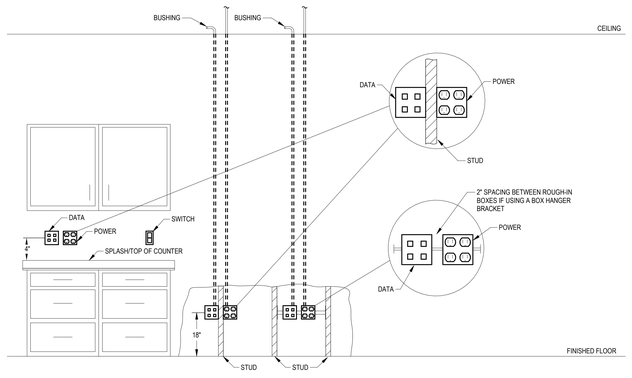
3. NAME PLATE SHALL BE PERMANENTLY ATTACHED TO PANELBOARD. REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE CONSTRUCTION REQUIREMENTS.



4 ROOM DEVICE MOUNTING ORTHOGRAPHIC DETAIL
N.T.S.

NOTES:

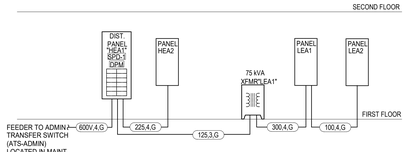
1. LIGHT SWITCH, THERMOSTAT, AND ADDITIONAL DEVICES TO BE MOUNTED ON WALL ADJACENT TO THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE ON PLANS.
2. CENTER OF LIGHT SWITCH TO BE 6" FROM THE EDGE OF THE DOOR WHEN IN FULL OPEN POSITION.
3. IF LIGHT SWITCHES ARE LOCATED BACK TO BACK ON BOTH SIDES OF THE WALL, MOVE ONE TO THE NEXT AVAILABLE STUD CAVITY AWAY FROM THE DOOR AS NEEDED.
4. IF WALL PROTECTION IS PRESENT, DEVICES TO BE MOUNTED 42" A.F.F. RATHER THAN 46".
5. ALL DEVICES TO BE INSTALLED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO AHJ ADOPTED *NEC - INFORMATIVE ANNEX J* OR AHJ ADOPTED PUBLISHING OF *ADA STANDARDS FOR ACCESSIBLE DESIGN* FOR ADDITIONAL INFORMATION.



3 SCHEMATIC ELECTRICAL MOUNTING DETAIL
N.T.S.

NOTES:

1. SOME DEVICES SHOWN MAY NOT BE USED. DETAIL IS NOT TO SCALE.
2. MOUNTING HEIGHTS ARE AS SHOWN IN THIS DETAIL UNLESS NOTED OTHERWISE ON THE FLOORPLAN.
3. TYPICAL FOR POWER AND DATA IN THE SAME GENERAL LOCATION. POWER AND DATA ROUGH-IN TO BE MOUNTED ADJACENT TO EACH OTHER ON EITHER SIDE OF A STUD OR BETWEEN STUDS IF USING A BRACKET HANGER. IF USING A BRACKET HANGER, POWER AND DATA BOXES TO BE INSTALLED WITH A 2" SPACE BETWEEN THEM.
4. ALL DEVICES TO BE INSTALLED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO AHJ ADOPTED *NEC - INFORMATIVE ANNEX J* OR AHJ ADOPTED PUBLISHING OF *ADA STANDARDS FOR ACCESSIBLE DESIGN* FOR ADDITIONAL INFORMATION.



PANEL FEEDER SCHEDULE - COPPER						
CALL OUT	OCPD RATING	PARALLEL SETS	PHASE	NEUTRAL	GRD	CONDUIT
100,4,G	100	1	#3	#3	#8	1-1/4"
125,3,G	125	1	#1	-	#6	1-1/2"
225,4,G	225	1	4/0	4/0	#4	2-1/2"
300,4,G	300	1	350KCM	350KCM	#4	3"
600V,4,G	600	2	600KCM	600KCM	#1/0	4"

1 ELECTRICAL RISER DIAGRAM
N.T.S.

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PROJECT NUMBER: 126100

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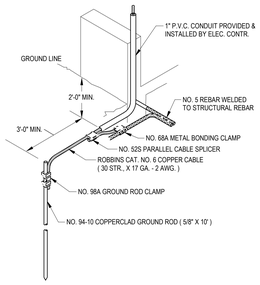
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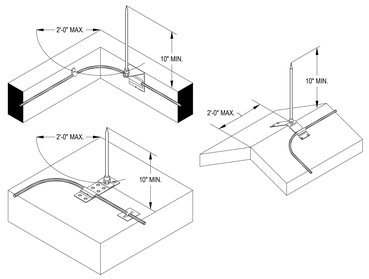
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS EA501



10 REBAR BOND & GROUNDING CONNECTION DETAIL
N.T.S.

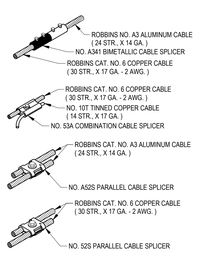


9 PLACEMENT OF AIR TERMINAL ON OUTSIDE CORNERS
N.T.S.

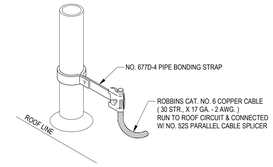
NOTES:

1. AIR TERMINALS MUST BE WITHIN 2' FROM AN OUTSIDE CORNER AS INDICATED, THIS WOULD APPLY TO ALL SITUATIONS. PARAPETS, FLAT ROOFS, METAL UNITS, ETC.

11 Tape Light Detail
1/4" = 1'-0"



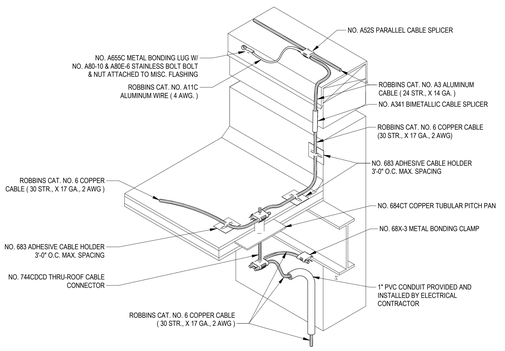
8 SPLICER DETAIL
N.T.S.



7 ROOF VENT DETAIL
N.T.S.

NOTES:

1. METAL V.T.R. WITHIN 6' OF A L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION

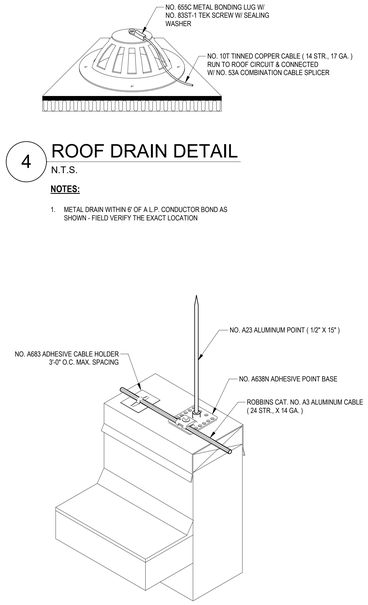


6 LASHING BOND, THRU ROOF, STEEL BOND & DOWNLEAD
N.T.S.

NOTES:

1. ROOFING CONTRACTOR TO INSTALL & SEAL ROOFING PENETRATIONS
2. ROOFING CONTRACTOR TO INSTALL PITCH PAN ON TOP OF INSULATION
3. A MINIMUM OF 2" OF THREADED ROD MUST BE LEFT ABOVE TOP OF PITCH PAN

5 EXHAUST FAN / MECHANICAL AIR TERMINAL
N.T.S.



4 ROOF DRAIN DETAIL
N.T.S.

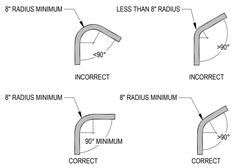
NOTES:

1. METAL DRAIN WITHIN 6' OF A L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION

3 ADHESIVE BASE AIR TERMINAL DETAIL
N.T.S.

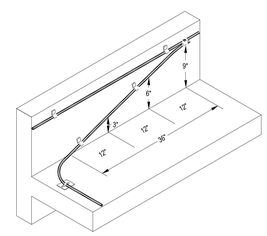
NOTES:

1. POINT BASE & CABLE HOLDER WILL BE SET WITH ADHESIVE COMPOUND COMPATIBLE TO ROOFING MATERIAL. ANY SPECIAL PADS, STRIPS, PAVER BLOCKS, ETC. TO BE SUPPLIED AND INSTALLED BY THE ROOFING CONTRACTOR.



REFER TO GENERAL NOTE NO. 1 ON SHEET ONE

2 ACCEPTABLE CABLE BEND DETAIL
N.T.S.



CABLE MAY RUN UPHILL FROM BONDING OR AIR TERMINAL LOCATIONS NOT TO EXCEED A RATE OF 3" OF RISE PER 12" OF RUN. FASTEN CABLE EVERY 3'-0" O.C. MAXIMUM.

1 3 TO 12 CABLE RISER ELEVATION
N.T.S.

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PROJECT NUMBER: 25106

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS EA502

EQUIPMENT	KED-BSE DRAWINGS - DEVICE LOCATIONS	EQUIPMENT BY OWNER	INSTALLATION OF EQUIPMENT	INSTALLATION OF CABLE	ROUGH-IN AND PATHWAY INSTALLATION	COMMENTS
TELEPHONE SYSTEM		X	OWNER			VOIP SYSTEM (Using existing system)
WIRELESS ACCESS POINTS - EQUIPMENT	X	X	OWNER	SECURITY ENGINEERING	EC	OWNER TO PROVIDE EQUIPMENT (DESIGN STILL NEEDED FOR DROP LOCATIONS AND DATA INSTALLATION BY SECURITY ENGINEERING)
WIRELESS ACCESS POINT ROUGH-IN - (1) CAT 6 PLENUM CABLING	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM CABLE- PHONE/PRINTERS/FAX/ANALOG TYPE CABLE	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM FOR FLOOR BOX - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - CAMERA	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
TESTING - FIBER AND CAT6A AND LABELING	x		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
FIBER DISTRIBUTION CABINET	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RACK HORIZONTAL MANAGER	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RJ-45 JACKS AT WORKAREA AND IDF MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FACEPLATES	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
EQUIPMENT RACKS (4POST IN THE MDF AND 2POST IN IDF TYPE WITH VERTICAL /HORIZONTAL MANAGERS)	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT RACK	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT WORKSTATIONS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
BACKBONE FIBER OPTIC CABLING -TERMINATIONS BETWEEN THE MDF AND IDF ROOMS	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FIBER PATH CORDS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
MDF/IDF ROOM - TELECOM TERMINAL BOARD, CONDUIT SLEEVES, OVERHEAD LADDER RACK AND GROUNDING BAR	X		EC	EC	EC	
NETWORK SWITCHES		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
ROUTERS, MODEMS, PHONE EQUIPMENT, HANDSETS		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
CONDUITS-J-BOXES					EC	
SERVICE PROVIDER CABLING TO THE MDF -NETWORK	X		UNITI	UNITI	EC	OWNER TO WORK WITH THERE PREFERRED INTEGRATOR AND COORDINATE ALL CONTRACTS OF ESTABLISHING SERVICE TO THE FACILITY
CONDUIT ROUTE FROM THE SERVICE PROVIDERS MEET ME POINT TO THE MDF IN ADMINISTRATION BUILDING. INCLUDES CONDUITS AND HANDHOLES INTO THE MDF/IDF ROOMS	X				EC	
WIRED BASKET TRAY	X				EC	
MASS NOTIFICATION / PAGING SPEAKERS - INTERIOR AND EXTERIOR	X	X	SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SPEAKERS TO BE INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MASS NOTIFICATION / PAGING SYSTEM HEADEND	X		OWNERS VENDOR	OWNERS VENDOR	EC	INTERGRATED WITH EXISTING NOTIFICATION SYSTEM (INFORMACAST)
ACCESS CONTROL PANEL - LENEL ONGUARD	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CARD READERS- DUAL AUTHENTICATIONS	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CODE BLUE STATIONS INTERCOM/CAMERA PEDESTALS -CODE BLUE	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
ELECTRIC LATCH/STRIKES -PROVIDED BY DOOR HARDWARE INTEGRATOR	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
DOOR CONTACT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
LOCKDOWN	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
REQUEST TO EXIT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PANIC ALARM SWITCHES	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERA SYSTEM - SOFTWARE, CAMERAS LICENSES, AND STORAGE -AVIGILON		X	S			TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV MONITOR -VIEWING STATION 55" TV	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERAS INTERIOR AND EXTERIOR - AVIGILON	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
AREA OF REFUGE MASTER HEADEND AND INTERCOM BUTTON AND WIRING	X		EC	EC	EC	
TVS AND TV MOUNTS WITH BRIGHT SIGN DIGITAL MEDIA PLAYER -DIGITAL SIGNAGE LOCATIONS	X		EC	EC	EC	TRANSIT BUS MESSAGE BOARDS-ONLY -NO DIGITAL SIGNAGE LOCATIONS ANYWHERE ELSE FOR THE PROJECT
TRAINING ROOM AND CONFERENCE ROOM - FLOOR BOXES ONLY	X		EC	EC	EC	
TRAINING ROOM AV SYSTEM -TVS TV MOUNTS, FRONT/REAR CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS FRONT OF ROOM)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
CONFERENCE ROOM AV SYSTEM -TVS TV MOUNTS, FRONT CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT CONFERENCE TABLE)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
MEETING ROOM AV SYSTEM -CEILING PROJECTOR, CEILING PROJECTOR SCREEN, TV DISPLAYS FOR BACK OF HOUSE VIEWING, FRONT/REAR CAMERAS,AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT LECTURN)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
TVS AND TV MOUNTS WITH HDMI CABLING FOR PRESENTATION IN OFFICES TYPE-SIZE ROOMS -(RADIO, CALL CENTER, SAFETY OFFICER, ACCOUNTING, FINANCE, DIV MANAGER, DEPUTY DIRECTOR, DIRECTOR, MAINTENANCE SUPERVISOR, FACILITY MANAGER, AND FACILITY MANAGER)	X		EC	EC	EC	
INTERCOM CAMERA/DOOR STATION AND INTERCOM MASTER STATION AT GATE ENTRANCES AND ENTRANCES INTO FACILTY - AIPHONE	X		EC	EC	EC	
UPS	X		EC	EC	EC	
TIME CLOCK LOCATIONS (NETWORK CABLING) • ADMIN BUILDING: CORR 113 ON WALL OF ROOM AND ROOM 158 LOCKER RM(TWO CLOCKS) • MAINT BLDG: CORR 101 • TRANSFER CNTR: INSIDE DOOR OF BREAK RM ON WALL ON THE RIGHT SIDE.	X		OWNERS VENDOR	OWNERS VENDOR	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PRINTER LOCATIONS (NETWORK CABLE) ADMIN BUILDING: OFFICE SUPPLIES 121, RECEPT 120, SAFETY HALLWAY, RECEPT 104, DISPATCH / RADIO ROOMS, CALL CENTER, MAINTENANCE BUILDING: MAINTENANCE SUPERVISOR OFFICE, ROOM123, TRANSFER BUILDING: CUSTOMER SERVICE ARA, AND ADMIN BUILDING ROOM 104 AND 105	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CATV JACKS: ADMIN BUILDING ROOMS -DIR RM 124, DEPUTY DIR RM 125, DIV MAN RM 126, FIN RM 127, ACCNT RM 128, CONF RM 129, TRAIN RM 102, CHIEF SAFETY RM 140, SAFETY MAN RM 106, DISPATCH RM 151,RADIO RM 152 & 153, CALL CNTR RM 155, MEET RM 201. MAINT BLDG: BREAK RM 122, FACILITY MAN RM 104, MAIN MAN RM 122. TRANSFER CENTER: CUSTOMER WAITING RM, CUST SERV RM 339, AND BREAK RM 347	X		EC	EC	EC	
RADIO ROOM EQUIPMENT/ANTENNA LOCATIONS THE TWO RADIO ROOMS IN THE ADMIN BUILDING ARE THE ONLY ROOMS THAT WILL GET RADIOS INSTALLED.						EQUIPMENT TO BE RELOCATED FROM EXISTING LOCATION. OWNERS VENDOR (CES) TO RELCOATE/RE-INSTALL/TEST EQUIPMENT
CATV SYSTEM HORIZONTAL CABLE TO THE NEAREST MDF/IDF-NO SPLITTER, COUPLERS, OR TAPS	X		EC	EC	EC	
AMPLFIERS	X		EC	EC	EC	

1 TECHNOLOGY RESPONSIBILITY MATRIX
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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS **EA503**

ELECTRICAL CONNECTION SCHEDULE

CALLOUT	LOAD CHARACTERISTICS					PANEL AND CIRCUIT INFORMATION				NOTES
	VOLTAGE	PHASE	VA	AMPS	MCA	FED FROM	CIRCUIT	MOCP	CONDUIT & WIRE	
AHU EXHAUST FAN	480 V	3	18810 VA	22.6 A	22.6 A	HEA2	33,35,37	30/3	3/4"C, 3#10, #10N, #10G	
AHU HEAT	120 V	1	650 VA	5.4 A	5.4 A	LEA1	40	20/1	3/4"C, 1#12, #12N, #12G	
AHU SUPPLY FAN	480 V	3	31177 VA	37.5 A	37.5 A	HEA2	28,30,32	50/3	1"C, 3#6, #6N, #10G	
CP-1	120 V	1	600 VA	5.0 A	5.0 A	LEA1	62	20/1	3/4"C, 1#12, #12N, #12G	
CU-1	480 V	3	77162 VA	92.8 A	92.8 A	HEA1	4	125/3	1-1/2"C, 3-1/0, 1/0N, #6G	
CUH-1	208 V	1	3750 VA	18.0 A	18.0 A	LEA1	6,8	30/2	3/4"C, 2#10, #10N, #10G	
CUH-2	208 V	1	3000 VA	14.4 A	14.4 A	LEA1	2,4	20/2	3/4"C, 2#12, #12N, #12G	
DOOR POWER	120 V	1	180 VA	1.5 A	0.0 A	LEA2	44	20/1	3/4"C, 1#12, #12N, #12G	
DOOR POWER	120 V	1	180 VA	1.5 A	0.0 A	LEA2	44	20/1	3/4"C, 1#12, #12N, #12G	
EF-1	120 V	1	100 VA	0.8 A	0.8 A	LEA2	38	20/1	3/4"C, 1#12, #12N, #12G	
EF-2	120 V	1	840 VA	7.0 A	7.0 A	LEA1	32	20/1	3/4"C, 1#12, #12N, #12G	
ELEV. LTS	277 V	1	600 VA	2.2 A	2.2 A	HEA2	40	20/1	3/4"C, 1#12, #12N, #12G	
ELEVATOR	480 V	3	33280 VA	40.0 A	40.0 A	HEA1	3	60/3	1-1/4"C, 3#4, #4N, #10G	
EM. COMM.	120 V	1	600 VA	5.0 A	5.0 A	LEA2	46	20/1	3/4"C, 1#12, #12N, #12G	
GWH-1	120 V	1	250 VA	2.1 A	2.1 A	LEA1	38	20/1	3/4"C, 1#12, #12N, #12G	
LIGHTING GATEWAY	120 V	1	180 VA	1.5 A	0.0 A	LEA1	73			
PLUMBING TRANSFORMER	120 V	1	110 VA	0.9 A	0.9 A	LEA2	40	20/1	3/4"C, 1#12, #12N, #12G	
PLUMBING TRANSFORMER	120 V	1	100 VA	0.8 A	0.8 A	LEA1	37	20/1	3/4"C, 1#12, #12N, #12G	
PLUMBING TRANSFORMER	120 V	1	100 VA	0.8 A	0.8 A	LEA1	39	20/1	3/4"C, 1#12, #12N, #12G	
PLUMBING TRANSFORMER	120 V	1	90 VA	0.8 A	0.8 A	LEA1	36	20/1	3/4"C, 1#12, #12N, #12G	
PLUMBING TRANSFORMER	120 V	1	90 VA	0.8 A	0.8 A	LEA1	34	20/1	3/4"C, 1#12, #12N, #12G	
PLUMBING TRANSFORMER	120 V	1	50 VA	0.4 A	0.0 A	LEA1	41	20/1	3/4"C, 1#12, #12N, #12G	
SSAC-1	208 V	1	0 VA	0.0 A	0.0 A	LEA1	59,61	20/2	3/4"C, 2#12, #12N, #12G	POWERED THROUGH SSCU-1
SSCU-1	208 V	1	3328 VA	16.0 A	16.0 A	LEA1	59,61	20/2	3/4"C, 2#12, #12N, #12G	
VAV-101	277 V	1	1250 VA	4.5 A	4.5 A	HEA2	4	20/1	3/4"C, 1#12, #12N, #12G	
VAV-102	277 V	1	2500 VA	9.0 A	9.0 A	HEA2	7	20/1	3/4"C, 1#12, #12N, #12G	
VAV-103	277 V	1	1875 VA	6.8 A	6.8 A	HEA2	9	20/1	3/4"C, 1#12, #12N, #12G	
VAV-104	277 V	1	1875 VA	6.8 A	6.8 A	HEA2	11	20/1	3/4"C, 1#12, #12N, #12G	
VAV-105	277 V	1	1250 VA	4.5 A	4.5 A	HEA2	6	20/1	3/4"C, 1#12, #12N, #12G	
VAV-106	277 V	1	2500 VA	9.0 A	9.0 A	HEA2	10	20/1	3/4"C, 1#12, #12N, #12G	
VAV-107	277 V	1	4375 VA	15.8 A	15.8 A	HEA2	8	20/1	3/4"C, 1#12, #12N, #12G	
VAV-108	277 V	1	3750 VA	13.5 A	13.5 A	HEA2	15	20/1	3/4"C, 1#12, #12N, #12G	
VAV-109	277 V	1	1250 VA	4.5 A	4.5 A	HEA2	12	20/1	3/4"C, 1#12, #12N, #12G	
VAV-110	277 V	1	1875 VA	6.8 A	6.8 A	HEA2	13	20/1	3/4"C, 1#12, #12N, #12G	
VAV-111	277 V	1	1875 VA	6.8 A	6.8 A	HEA2	17	20/1	3/4"C, 1#12, #12N, #12G	
VAV-112	277 V	1	3125 VA	11.3 A	11.3 A	HEA2	14	20/1	3/4"C, 1#12, #12N, #12G	
VAV-113	277 V	1	2500 VA	9.0 A	9.0 A	HEA2	16	20/1	3/4"C, 1#12, #12N, #12G	
VAV-114	277 V	1	1875 VA	6.8 A	6.8 A	HEA2	18	20/1	3/4"C, 1#12, #12N, #12G	
VAV-115	277 V	1	1250 VA	4.5 A	4.5 A	HEA2	19	20/1	3/4"C, 1#12, #12N, #12G	
VAV-201	480 V	3	17500 VA	21.0 A	21.0 A	HEA2	21,23,25	30/3	3/4"C, 3#10, #10N, #10G	
VAV-202	480 V	3	14375 VA	17.3 A	17.3 A	HEA2	20,22,24	30/3	3/4"C, 3#10, #10N, #10G	
VAV-203	480 V	3	8750 VA	10.5 A	10.5 A	HEA2	27,29,31	20/3	3/4"C, 3#12, #12N, #12G	

NEMA 5-20R RECEPTACLE SUBSCRIPT SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
W	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE WITH DIE-CAST WEATHERPROOF COVER (WHILE IN USE), NEMA 5-20R	HUBBELL GFRS352ST/WP26E LEVITON PASS & SEYMOUR COOPER
TV	STEEL RECESSED TV BOX, WHITE COVER PLATE, COORDINATE EXACT MOUNTING LOCATION WITH AV CONTRACTOR PRIOR TO INSTALLATION. REFER TO TECHNOLOGY DRAWINGS FOR TV ROUGH-IN DETAIL.	ARLINGTON COVER - DVFRC ARLINGTON RECESSED 2 GANG STEEL BOX - TVBS505 FACEPLATE 2 GANG
NO SUBSCRIPT	DOUBLE DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL (2) HBL5362 LEVITON PASS & SEYMOUR COOPER
NO SUBSCRIPT	DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL HBL5362 LEVITON PASS & SEYMOUR COOPER
NO SUBSCRIPT	SIMPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL HBL5361 LEVITON PASS & SEYMOUR COOPER
GFCI	FACELESS GFCI RECEPTACLE, 20A, 120V AC, 2 POLES, AUTO RESET, SET TEST TECHNOLOGY	HUBBELL GFBFST20 LEVITON PASS & SEYMOUR COOPER
G	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE, NEMA 5-20R	HUBBELL GFRS352ST LEVITON PASS & SEYMOUR COOPER
C	DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, CEILING MOUNTED, NEMA 5-20R	HUBBELL HBL5362 LEVITON PASS & SEYMOUR COOPER
A/G	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE, NEMA 5-20R	HUBBELL GFRS352ST LEVITON PASS & SEYMOUR COOPER

NOTE: "A" SUBSCRIPT DENOTES ABOVE COUNTER. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS.

FIRE ALARM DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MODEL
FD	ADDRESSABLE FIRE ALARM MANUAL PULL STATION, DOUBLE ACTION, RED POLYCARBONATE BODY, KEY RESET, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
AM	ADDRESSABLE MONITOR MODULE, LED INDICATOR, SUPERVISION OF NORMALLY OPEN OR NORMALLY CLOSED CONTACT DEVICE	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
AR	ADDRESSABLE RELAY MODULE, LED INDICATOR, SPDT RELAY (CONTACT RATING OF 2A AT 24VDC OR 0.5A AT 120VAC), PROVIDE ADDITIONAL RELAYS WHERE LOAD CONTROLLED EXCEEDS CONTACT RATING, LED SHALL BE VISIBLE WITH COVER INSTALLED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
SD	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
A #	FIRE ALARM AUDIO/VISUAL, NOTIFICATION APPLIANCE, CEILING MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 4-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
	FIRE ALARM AUDIO/VISUAL, NOTIFICATION APPLIANCE, WALL MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 4-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
WP	FIRE ALARM AUDIO/VISUAL, NOTIFICATION APPLIANCE, WEATHER PROOF WALL MOUNTED, RED WHITE HOUSING WITH "FIRE" MARKING, 4-WIRE	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
FAP	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MOUNT. REFER TO SPECIFICATION SECTION 283100 FOR ADDITIONAL INFORMATION. PROVIDE DEDICATED 120V POWER [FROM LIFE SAFETY PANELBOARD] WITH HANDLE LOCK.	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL, LCD DISPLAY, ALARM, SUPERVISORY, AND TROUBLE ACKNOWLEDGE, ALARM SILENCE, SYSTEM RESET, KEYSWITCH FOR ACCESS CONTROL, THREE PROGRAMMABLE LED INDICATORS, BRUSHED ALUMINUM TRIM, FLUSH MOUNT AT 48" IN A RECESSED ELECTRICAL BOX	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
#	FIRE ALARM VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 2-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
#	FIRE ALARM VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 2-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
PIV	FIRE PROTECTION POST INDICATOR VALVE AND TAMPER SWITCH, FURNISHED AND INSTALLED BY F.P.C., WIRED BY E.C., INSTALL THE MONITOR MODULE INSIDE THE BUILDING AND PROVIDE CONDUIT AND WIRING TO THE PIV.	BY FIRE PROTECTION CONTRACTOR
TS	FIRE PROTECTION VALVE TAMPER SWITCH, FURNISHED AND INSTALLED BY F.P.C., WIRED BY E.C.	BY FIRE PROTECTION CONTRACTOR
FS	FIRE PROTECTION WATER FLOW SWITCH, FURNISHED AND INSTALLED BY F.P.C., WIRED BY E.C.	BY FIRE PROTECTION CONTRACTOR
H	HEAT DETECTOR, ADDRESSABLE, RATE-OF-RISE OR FIXED TEMPERATURE SENSOR WITH A 135 OR 155 DEGREE TEMPERATURE ALARM, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
NEP	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL, ADDRESSABLE, SURFACE MOUNT. PROVIDE DEDICATED 120V POWER [FROM LIFE SAFETY PANELBOARD] WITH HANDLE LOCK.	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS

PHOTOCELL SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
LIN	DIGITAL INTERIOR PHOTO SENSOR FOR DAYLIGHT HARVESTING, LOW VOLTAGE, CEILING MOUNT, CONNECT TO ZONE CONTROLLER. PROVIDE ZONE CONTROLLER SUITABLE OF QUANTITY/TYPE OF ZONES CONTROLLED SUBSCRIPTS ON PLANS INDICATE LIGHTING ZONES CONTROLLED BY PHOTO SENSOR. A ':' IS USED BETWEEN GROUPS OF ZONES ON PLAN TO INDICATE MULTIPLE ZONES ARE CONTROLLED VIA THE INPUT FOR THIS SINGLE SENSOR	WATT STOPPER LMLS-500 ACUITY NLIGHT OR PREAPPROVED EQUAL

FLOOR BOX / POKE THRU SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
FB-1	SQUARE RECESSED FLOOR BOX. ABOVE GROUND OR ON-GRADE CONCRETE POUR INSTALLATIONS. FOUR GANG STEEL HOUSING. CONCRETE POUR OF 3.5" TO 5.75", (1) 1" CONDUIT FOR POWER, (1) 1-1/4" CONDUIT FOR TELECOMMUNICATIONS, (1) 1-1/4" CONDUIT FOR AV CABLING. TWO DUPLEX RECEPTACLES (NEMA 5-20R), EXTEND TELECOMMUNICATIONS CONDUIT TO ABOVE ACCESSIBLE CEILING, EXTEND A/V CONDUIT TO AV EQUIPMENT LOCATION. FLOOR CONSTRUCTION: CARPET COVER FINISH: BRUSHED NICKEL	BOX: WIREMOLD RFBA-OC COVER: WIREMOLD FPB(C)
PT-1	6" SURFACE STYLE TWO GANG ROUND POKE-THRU. TWO HOUR FIRE RATED MINIMUM, RECESSED DEVICES, HINGED DIE-CAST ALUMINUM COVER, 3/4" CONDUIT TO 2 DUPLEX RECEPTACLES (NEMA 5-20) FLOOR CONSTRUCTION: HARD SURFACE COVER FINISH: BRUSHED NICKEL	ASSEMBLY: WIREMOLD (1) 6ATP HUBBELL
PT-2	6" SURFACE STYLE TWO GANG ROUND POKE-THRU. TWO HOUR FIRE RATED MINIMUM, RECESSED DEVICES, HINGED DIE-CAST ALUMINUM COVER, 3/4" CONDUIT TO 2 DUPLEX RECEPTACLES (NEMA 5-20), ROUTE 1-1/4" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING, PROVIDE VOLTAGE SEPARATION FROM LINE AND LOW VOLTAGE DEVICES FLOOR CONSTRUCTION: HARD SURFACE COVER FINISH: BRUSHED NICKEL	ASSEMBLY: WIREMOLD (1) 6ATP HUBBELL

CEILING MOUNTED OCCUPANCY SENSOR SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
D1	DIGITAL OCCUPANCY SENSOR, DUAL SENSING TECHNOLOGIES (PASSIVE INFRARED AND ULTRASONIC OR MIRCOPHONIC), LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 1000 SF COVERAGE SUBSCRIPTS ON PLAN INDICATE LIGHTING ZONES CONTROLLED	WATTSTOPPER LMDC-100 ACUITY NLIGHT OR PREAPPROVED EQUAL
D1	OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 1000 SF COVERAGE	WATTSTOPPER DT-305 ACUITY NLIGHT OR PREAPPROVED EQUAL
D2	DIGITAL OCCUPANCY SENSOR, DUAL SENSING TECHNOLOGIES (PASSIVE INFRARED AND ULTRASONIC OR MICROPHONIC), LOW VOLTAGE, ROTATABLE CEILING PENDANT MOUNT, 90 DEGREE COVERAGE, UP TO 2000 SF COVERAGE SUBSCRIPTS ON PLAN INDICATE LIGHTING ZONES CONTROLLED BY EACH OCCUPANCY SENSOR	WATTSTOPPER LMDX-100 ACUITY NLIGHT OR PREAPPROVED EQUAL
D2	OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE, UP TO 2000 SF COVERAGE, WALL OR CEILING MOUNT	WATTSTOPPER DT-205 ACUITY NLIGHT OR PREAPPROVED EQUAL
U2	DIGITAL OCCUPANCY SENSOR, ULTRASONIC OR MIRCOPHONIC, LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 1000 SF OF COVERAGE SUBSCRIPTS ON PLAN INDICATE LIGHTING ZONES CONTROLLED BY EACH OCCUPANCY SENSOR	WATTSTOPPER LMUC-100 ACUITY NLIGHT OR PREAPPROVED EQUAL
U2	OCCUPANCY SENSOR, ULTRASONIC, LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 1000 SF COVERAGE	WATTSTOPPER WT-1105 ACUITY NLIGHT OR PREAPPROVED EQUAL

SWITCH SUBSCRIPT SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
3	SINGLE POLE THREE WAY SWITCH, COMMERCIAL GRADE, 20 AMP	WATT STOPPER CS20ACTW ACUITY NLIGHT OR PREAPPROVED EQUAL
L	DIGITAL LOW VOLTAGE WALL STATION, SINGLE ZONE ON/OFF MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER LMDW-001 ACUITY NLIGHT OR PREAPPROVED EQUAL
LD	DIGITAL LOW VOLTAGE WALL STATION, SINGLE ZONE ON/OFF AND RAISE/LOWER MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER LMDW-101 ACUITY NLIGHT OR PREAPPROVED EQUAL
LD2	DIGITAL LOW VOLTAGE WALL STATION, DUAL ZONE ON/OFF AND RAISE/LOWER MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER LMDW-101 ACUITY NLIGHT OR PREAPPROVED EQUAL
LP	LOW VOLTAGE WALL STATION WITH INTEGRAL OCCUPANCY SENSOR, PASSIVE INFRARED, SINGLE ZONE OF ON/OFF MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER PW-302-W ACUITY NLIGHT OR PREAPPROVED EQUAL
LPD	LOW VOLTAGE WALL STATION WITH INTEGRAL OCCUPANCY SENSOR, PASSIVE INFRARED, SINGLE ZONE ON/OFF AND RAISE/LOWER MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER PW-311-W ACUITY NLIGHT OR PREAPPROVED EQUAL
NO SUBSCRIPT	SINGLE POLE SWITCH, COMMERCIAL GRADE, 20 AMP	WATT STOPPER CS20ACTW ACUITY NLIGHT OR PREAPPROVED EQUAL

POWER SWITCH SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
H	MANUAL TOGGLE DISCONNECT SWITCH, HORSE-POWER RATED	SQUARE D SIEMENS EATON
NO SUBSCRIPT	TOGGLE DISCONNECT SWITCH, NEMA 1 RATING	SQUARE D SIEMENS EATON

GENERAL ELECTRICAL SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER
M	CONNECTION TO MECHANICAL EQUIPMENT	MOTOR/EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL OR PLUMBING CONTRACTOR
J	ELECTRICAL CONNECTION TO MISC. EQUIPMENT	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS
DIST. PANEL 'HEA1'	DISTRIBUTION PANEL, 480/277V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO ONE-LINE DIAGRAM FOR DETAILS	SQUARE D I-LINE OR PREAPPROVED EQUAL
PANEL 'HEA2'	BRANCH CIRCUIT PANELBOARD, 480/277V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO PANEL SCHEDULES FOR DETAILS	SQUARE D NF OR PREAPPROVED EQUAL
PANEL 'LEA1', 'LEA2'	BRANCH CIRCUIT PANELBOARD, 208/120V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO PANEL SCHEDULES FOR DETAILS	SQUARE D NQ OR PREAPPROVED EQUAL
XMFR-LEA1	DRY-TYPE TRANSFORMER, DOE 2016 COMPLIANT, 75 KVA, 480V PRIMARY, 208/120V SECONDARY, 6 TAPS (2+, 4-), ALUMINUM WINDINGS, 150 DEGREE C TEMP RISE, MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD	SQUARE D EXN75T3H OR PREAPPROVED EQUAL
SPD-1	SURGE PROTECTION DEVICE. EXTERNALLY MOUNTED, NON-MODULAR BRICK, 277/480V, 1-PHASE, 4-WIRE + GRD SERVICE, 160 KAIC SURGE CURRENT RATING PER PHASE, 200K SCCR, SUITABLE FOR SERVICE ENTRANCE DOWNSTREAM OF SERVICE DISCONNECT, UL 1449 TYPE 2, ANSI/IEEE C62.41 CATEGORY C	SQUARE D SURGELOGIC EMB SERIES OR PREAPPROVED EQUAL
DS-XXX A/B/C	DISCONNECT SWITCH, HEAVY DUTY, SIZE INDICATED ON PLANS (A/B/C) WHERE A = RATING IN AMPS, B = NUMBER OF POLES, C = NEMA RATING (E.G. 1 = NEMA 1), XXX = NAME OF LOAD SERVED	SQUARE D CLASS 3110 OR PREAPPROVED EQUAL
FDS-XXX A/B/C/D	FUSIBLE DISCONNECT SWITCH, HEAVY DUTY, SIZE INDICATED ON PLANS (A/B/C) WHERE A = RATING IN AMPS, B = NUMBER OF POLES, C = NEMA RATING (E.G. 1 = NEMA 1), D = FUSE SIZE IN AMPS, XXX = NAME OF LOAD SERVED, PROVIDE FUSES OF RATING PER MFR RECOMMENDATION	SQUARE D CLASS 3110 OR PREAPPROVED EQUAL
MS-XXX A/B/C	HORSEPOWER RATED MANUAL SWITCH, SIZE INDICATED ON PLANS (A/B/C) WHERE A = RATING IN AMPS, B = NUMBER OF POLES, C = NEMA RATING (E.G. 1 = NEMA 1), XXX = NAME OF LOAD SERVED, RED PILOT LIGHT	SQUARE D CLASS 2510 OR PREAPPROVED EQUAL
CS-XXX A/B/C/D	COMBINATION STARTER CONTAINING FUSED DISCONNECT SWITCH AND NON-REVERSING NEMA STARTER (MINIMUM SIZE 0), VOLTAGE PER PLANS, XXX = NAME OF LOAD SERVED, HAND-OFF-AUTO AND RED "RUN" PILOT LIGHT IN DOOR, A = FDS RATING IN AMPS, B = FDS NUMBER OF POLES, C = NEMA RATING, D = STARTER SIZE	SQUARE D CLASS 8502 OR PREAPPROVED EQUAL
LIGHTING RELAY PANEL 'LARP1'	LIGHTING RELAY PANEL, FEED-THRU TYPE, (8) 20A/1P RATED RELAYS, EXTERIOR PHOTO CELL INPUT, REFER TO SPECIFICATION 260923. SERVES EXTERIOR BUILDING-MOUNTED AND SITE LIGHTING	CURRENT NX CONTROLS WATTSTOPPER DLM ACUITY NLIGHT
MGB-1	MAIN GROUND BAR, WALL MOUNTED	REFER TO SPECIFICATION 260526
AT-1	24" LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECIFICATION	REFER TO SPECIFICATION
AT-2	8" LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECIFICATION	REFER TO SPECIFICATION
PP	AUTOMATIC DOOR PUSH PAD, PROVIDE SINGLE GANG OPENING AT 42" AFF WITH 1/2" CONDUIT TO THE POWER OPERATOR. REFER TO DOOR HARDWARE SUBMITTALS FOR ADDITIONAL INFORMATION	FURNISHED BY OTHERS, ROUGH IN BY EC

NOT ALL SYMBOLS/NOTES ARE USED

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/MODEL	FINISHES	LIGHT SOURCE	MOUNTING	DELIVERED LUMENS	CRI	CCT	DIMMING	DISTRIBUTION	WATTS	VOLTAGE	EMERGENCY BACK-UP
E1	INDOOR LED EMERGENCY LIGHTING UNIT, TWO ADJUSTABLE HEADS, SELF-TEST/SELF-DIAGNOSTICS, THERMOPLASTIC HOUSING	LITHONIA / ELM4L OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	640	N/A	6500 K	NA	NA	3 W	277	BATTERY
F1	2'X2' LED FLAT PANEL, BACK LIT, MEDIUM SELECTED OUTPUT	LITHONIA / CPANL OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	3930	80	4000 K	0-10V, 5% DIM	LAMBERTIAN	29 W	277	NONE
F1E	SIMILAR TO F1 BUT WITH EMERGENCY BATTERY	LITHONIA / CPANL OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	3930	80	4000 K	0-10V, 5% DIM	LAMBERTIAN	29 W	277	BATTERY
F3A	4" APERTURE SUSPENDED ARCHITECTURAL LINEAR, DIRECT LIGHTING DISTRUBUTION, FROSTED WHITE SNAP-IN FLUSH ACRYLIC TOP AND BOTTOM LENSES, LENGTH AND SHAPE PER PLANS	MARK ARCHITECTURAL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	SUSPENDED	400 PER FOOT	80	3500 K	0-10V, 1% DIM	100% DOWN	38 W	277	NONE
F3AE	SIMILAR TO F3B BUT WITH EMERGENCY BATTERY	MARK ARCHITECTURAL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	SUSPENDED	400 PER FOOT	80	3500 K	0-10V, 1% DIM	100% DOWN	38 W	277	BATTERY
F3BE	4" APERTURE WALL MOUNT ARCHITECTURAL LINEAR WITH INTEGRAL EMERGENCY BATTERY, DIRECT LIGHTING DISTRUBUTION, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS, LENGTH AND SHAPE PER PLANS	MARK ARCHITECTURAL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	WALL 8' AFF	400 PER FOOT	80	3500 K	0-10V, 1% DIM	100% DOWN	38 W	277	BATTERY
F3C	4" APERTURE RECESSED ARCHITECTURAL LINEAR, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS, LENGTH AND SHAPE PER PLANS	MARK ARCHITECTURAL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	400 PER FOOT	80	3500 K	0-10V, 1% DIM	100% DOWN	38 W	277	NONE
F3CE	SIMILAR TO F3C BUT WITH EMERGENCY BATTERY	MARK ARCHITECTURAL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	400 PER FOOT	80	3500 K	0-10V, 1% DIM	100% DOWN	38 W	277	BATTERY
F4A	4' STRIP, ACRYLIC DROP LENS	HE WILLIAMS / 75L OR PREAPPROVED EQUAL	WHITE	LED	SUSPENDED	5131	80	3500 K	N/A	LAMBERTIAN	42 W	277	NONE
F4AE	SIMILAR TO F4A, BUT WITH INTEGRAL EMERGENCY BATTERY	HE WILLIAMS / 75L OR PREAPPROVED EQUAL	WHITE	LED	SUSPENDED	5131	80	3500 K	N/A	LAMBERTIAN	42 W	277	BATTERY
F8	24" LIGHTED MIRROR, TOP AND BOTTOM DIRECT TASK LIGHTS, FROSTED LENS	CORDOVA / NURA-4 OR PREAPPROVED EQUAL	WHITE	LED	WALL	3962	90	3500 K	N/A	FORWARD FACING	32 W	277	NONE
F9	4" DIAMETER OPEN DOWNLIGHT, SPECIFICATION GRADE	ALPHABET / NU4 OR PREAPPROVED EQUAL	FLANGED TRIM WHITE, SPECULAR	LED	RECESSED	2095	90	3500 K	0-10V, 1% DIM	25 DEGREE BEAM	17 W	277	NONE
F9A	SIMILAR TO F9, BUT WITH SMALLER LUMEN OUTPUT	ALPHABET / NU4 OR PREAPPROVED EQUAL	FLANGED TRIM WHITE, SPECULAR	LED	RECESSED	990	90	3500 K	0-10V, 1% DIM	25 DEGREE BEAM	9 W	277	NONE
F9E	SIMILAR TO F9, BUT WITH INTEGRAL EMERGENCY BATTERY	ALPHABET / NU4 OR PREAPPROVED EQUAL	FLANGED TRIM WHITE, SPECULAR	LED	RECESSED	2095	90	3500 K	0-10V, 1% DIM	25 DEGREE BEAM	17 W	277	BATTERY
F10	2" APERATURE, 8' LONG WALL, MOUNT LINEAR, WALL WASH LIGHTING DISTRUBUTION	SCULPT / MIKROLITE OR PREAPPROVED EQUAL	WHITE	LED	WALL 18' AFF	8000	90	4000 K	0-10V, 1% DIM	WALL WASH	81 W	277	NONE
F11	OCL GLOWBALL RECTANGULAR CANOPY, 50 DROPS PER CANOPY, RANDOM PATTERN, LONGEST DROP SHALL BE 20' AFF	OCL / GLOWBALL CLUSTER OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	17500	80	3500 K	0-10V, 10% DIM	LAMERTIAN	250 W	277	NONE
F14	4" ROUND PENDANT MOUNTED CYLINDER	FLUXWERX / SPEAK 4" OR PREAPPROVED EQUAL	BLACK HOUSING, BLACK TRIM	LED	PENDANT	2100	80	4000 K	0-10V, 3% DIM	100% DOWN	20 W	277	NONE
F15	TAPE LIGHT, INTEGRAL DRIVER, PROVIDE NECESSARY FIXTURE LENGTHS TO FORM SHAPE ON PLAN WITH A MAXIMUM 6" GAP BETWEEN ADJACENT LUMINAIRE AND FROM LAST LUMINAIRE TO END OF CHANNEL. REFER TO ARCHITECTURAL PLANS AND TAPE LIGHT DETAIL. PROVIDE MOUNT

DISTRIBUTION PANELBOARD: HEA1

LOCATION: MECH. PLUMB. ELECT. 159
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: SWG-1

VOLTAGE: 480/277 Wye
PHASE: 3
WIRE: 4
LUGS: Standard

MAIN DEVICE: MCB 600A
BUS RATING: 600
NEUTRAL RATING: 100%
A.I.C. RATING: 18000

CKT #	CIRCUIT DESCRIPTION	A	B	C	FRAME	TRIP	POLES	FEEDER RACEWAY & CONDUCTORS	NOTES
1	XFMR - A3	29.8	28.7	25.9	125 A	125 A	3	REFER TO RISER	
2	HEA2	48.8	44.8	42	225 A	225 A	3	REFER TO RISER	
3	ELEVATOR	11.1	11.1	11.1	60 A	60 A	3	1-1/4"C, 3#4, #4N, #10G	(ST)
4	CU-1	25.7	25.7	25.7	125 A	125 A	3	1-1/2"C, 3-1/0, 1/0N, #6G	
5	SPD-1	0	0	0	400 A	60 A	3		
6	4.5" PREPARED SPACE	--			--	--	1		
7	6" PREPARED SPACE	--			--	--	1		
	TOTAL CONNECTED KVA BY PHASE	115.4 kVA	110.3 kVA	104.8 kVA					
	TOTAL CONNECTED AMPS BY PHASE	420 A	401 A	378.2 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	248956 VA	100.00%	248956 VA	
Lighting	10353 VA	125.00%	12941 VA	**TOTAL CONNECTED KVA** 330.5 kVA
Other	500 VA	100.00%	500 VA	**TOTAL CALCULATED KVA** 306.9 kVA
RECEPTACLE	61960 VA	58.07%	35980 VA	
Spare	8924 VA	100.00%	8924 VA	**TOTAL CONNECTED AMPS** 397.5 A
Power	540 VA	100.00%	540 VA	**TOTAL CALCULATED AMPS** 369.1 A
Lighting - Interior	108 VA	125.00%	135 VA	

NOTES:

BRANCH PANELBOARD: LEA1

LOCATION: MECH. PLUMB. ELECT. 159
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: XFMR-LEA1

VOLTAGE: 208/120 Wye
PHASE: 3
WIRE: 4
LUGS: Standard

MAIN DEVICE: MCB 300AT, 400AF
BUS RATING: 400
NEUTRAL RATING: 100%
A.I.C. RATING: 10000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	A		B		C		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1					8.7	1.5									2
3	100 A	3		LEA2			9.7	1.5			CUH-2		2	20 A	4
5									9.3	1.9					6
7	20 A	1		RECEPTACLE	1.1	1.9					CUH-1		2	30 A	8
9	20 A	1		RECEPTACLE			0.7	1.4			RECEPTACLE		1	20 A	10
11	20 A	1		RECEPTACLE					0.9	1.3	RECEPTACLE		1	20 A	12
13	20 A	1		RECEPTACLE	1.3	1.4					RECEPTACLE		1	20 A	14
15	20 A	1		RECEPTACLE			1.3	0.9			RECEPTACLE		1	20 A	16
17	20 A	1		RECEPTACLE					0.9	0.7	RECEPTACLE		1	20 A	18
19	20 A	1		RECEPTACLE	0.9	1.2					RECEPTACLE		1	20 A	20
21	20 A	1		RECEPTACLE			0.2	0.2			RECEPTACLE		1	20 A	22
23	20 A	1		RECEPTACLE					0.2	1.8	RECEPTACLE		1	20 A	24
25	20 A	1		RECEPTACLE	1.8	1.8					RECEPTACLE		1	20 A	26
27	20 A	1		RECEPTACLE			1.8	3.8			RECEPTACLE		1	40 A	28
29	20 A	1		RECEPTACLE					0.4	1.2	RECEPTACLE		1	20 A	30
31	20 A	1	G	RECEPTACLE	0.8	0.8					EF-2		1	20 A	32
33	20 A	1		RECEPTACLE			1.1	0.1			PLUMBING TRANSFORMER		1	20 A	34
35	20 A	1		RECEPTACLE					1.2	0.1	PLUMBING TRANSFORMER		1	20 A	36
37	20 A	1		PLUMBING TRANSFORMER	0.1	0.3					GWH-1		1	20 A	38
39	20 A	1		PLUMBING TRANSFORMER			0.1	0.6			AHU HEAT		1	20 A	40
41	20 A	1		PLUMBING TRANSFORMER					0.1	0.2	CAMERA POWER		1	20 A	42
43	20 A	1		RECEPTACLE	0.4	0.4					RECEPTACLE		1	20 A	44
45	20 A	1		RECEPTACLE			0.4	0.8			RECEPTACLE	G	1	20 A	46
47	20 A	1		RECEPTACLE					0.4	0.9	RECEPTACLE		1	20 A	48
49	20 A	1		ROOM 155 MODULAR FURNITURE...	0.2	1					MOTORIZED GATE		2	20 A	50
51	20 A	1		ROOM 155 MODULAR FURNITURE...			0.2	1							52
53	20 A	1		CAMERA POWER					0.2	0.2	CAMERA POWER		1	20 A	54
55	20 A	1		CAMERA POWER	0.2	1					PEDESTRIAN GATE		2	20 A	56
57	20 A	1		CAMERA POWER			0.2	1							58
59	20 A	2		SSAC-1, SSCU-1					1.7	0.2	CAMERA POWER		1	20 A	60
61					1.7	0.6					CP-1		1	20 A	62
63	20 A	1		ROOM 155 MODULAR FURNITURE...			0	0.2			RECEPTACLE		1	20 A	64
65	20 A	1		ROOM 155 MODULAR FURNITURE...					0	0.5	FIRE ALARM PANEL	HL	1	20 A	66
67	20 A	1		RECEPTACLE	0.2	0.2					RECEPTACLE		1	20 A	68
69	20 A	2		MOTORIZED GATE			1	0.2			RECEPTACLE		1	20 A	70
71									1	0.9	RECEPTACLE		1	20 A	72
73	20 A	1		HVAC	0.2	0.4					RECEPTACLE		1	20 A	74
75	20 A	1		SPARE			0	0.4			RECEPTACLE		1	20 A	76
77	20 A	1		SPARE					0	0	SPARE		1	20 A	78
79	20 A	1		SPARE	0	0					SPARE		1	20 A	80
81	20 A	1		SPARE			0	0			SPARE		1	20 A	82
83	20 A	1		SPARE					0	0	SPARE		1	20 A	84
				TOTAL CONNECTED KVA BY PHASE	29.8 kVA		28.7 kVA		25.9 kVA						
				TOTAL CONNECTED AMPS BY PHASE	251.7 A		242.4 A		216.2 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	14198 VA	100.00%	14198 VA	
Lighting	0 VA	0.00%	0 VA	**TOTAL CONNECTED KVA** 84.4 kVA
Other	500 VA	100.00%	500 VA	**TOTAL CALCULATED KVA** 58.4 kVA
RECEPTACLE	61960 VA	58.07%	35980 VA	
Spare	7200 VA	100.00%	7200 VA	**TOTAL CONNECTED AMPS** 234.3 A
Power	540 VA	100.00%	540 VA	**TOTAL CALCULATED AMPS** 162.2 A

NOTES:

BRANCH PANELBOARD: HEA2

LOCATION: MECH. PLUMB. ELECT. 159
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: HEA1

VOLTAGE: 480/277 Wye
PHASE: 3
WIRE: 4
LUGS: Standard

MAIN DEVICE: MLO
BUS RATING: 225
NEUTRAL RATING: 100%
A.I.C. RATING: 14000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	A		B		C		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1	20 A	1		LIGHTING	2.3	3.4					LIGHTING		1	20 A	2
3	20 A	1		LIGHTING			2	1.3			VAV-101		1	20 A	4
5	20 A	1		LIGHTING					2.3	1.3	VAV-105		1	20 A	6
7	20 A	1		VAV-102	2.5	4.4					VAV-107		1	20 A	8
9	20 A	1		VAV-103			1.9	2.5			VAV-106		1	20 A	10
11	20 A	1		VAV-104					1.9	1.3	VAV-109		1	20 A	12
13	20 A	1		VAV-110	1.9	3.1					VAV-112		1	20 A	14
15	20 A	1		VAV-108			3.8	2.5			VAV-113		1	20 A	16
17	20 A	1		VAV-111					1.9	1.9	VAV-114		1	20 A	18
19	20 A	1		VAV-115	1.3	4.8									20
21							5.8	4.8			VAV-202		3	30 A	22
23	30 A	3		VAV-201					5.8	4.8					24
25					5.8	0.1					LIGHTING		1	20 A	26
27							2.9	10.4							28
29	20 A	3		VAV-203					2.9	10.4	AHU SUPPLY FAN		3	50 A	30
31					2.9	10.4									32
33							6.3	0			ELEVATOR LIGHTING		1	20 A	34
35	30 A	3		AHU EXHAUST FAN					6.3	1.7	SITE LIGHTING		1	20 A	36
37					6.3	0.1					FLAGPOLE LIGHTING		1	20 A	38
39	20 A	1		LIGHTING			0.4	0.6			ELEV. LTS	HL	1	20 A	40
41	20 A	1		SPARE					0	0	SPARE		1	20 A	42
43	20 A	1		SPARE	0	0					SPARE		1	20 A	44
45	20 A	1		SPARE			0	0			SPARE		1	20 A	46
47	20 A	1		SPARE					0	0	SPARE		1	20 A	48
49	20 A	1		SPARE	0	0					SPARE		1	20 A	50
51	20 A	1		SPARE			0	0			SPARE		1	20 A	52
53	20 A	1		SPARE					0	0	SPARE		1	20 A	54
55	20 A	1		SPARE	0	0					SPARE		1	20 A	56
57	20 A	1		SPARE			0	0			SPARE		1	20 A	58
59	20 A	1		SPARE					0	0	SPARE		1	20 A	60
				TOTAL CONNECTED KVA BY PHASE	48.8 kVA		44.8 kVA		42 kVA						
				TOTAL CONNECTED AMPS BY PHASE	177.9 A		163.4 A		151.7 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	124337 VA	100.00%	124337 VA	
Lighting	10353 VA	125.00%	12941 VA	**TOTAL CONNECTED KVA** 135.7 kVA
Spare	1724 VA	100.00%	1724 VA	**TOTAL CALCULATED KVA** 138.1 kVA
Lighting - Interior	108 VA	125.00%	135 VA	
				TOTAL CONNECTED AMPS 163.2 A
				TOTAL CALCULATED AMPS 166.1 A

NOTES:

BRANCH PANELBOARD: LEA2

LOCATION: OFFICE SUPPLIES 121
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: LEA1

VOLTAGE: 208/120 Wye
PHASE: 3
WIRE: 4
LUGS: Standard

MAIN DEVICE: MLO
BUS RATING: 100
NEUTRAL RATING: 100%
A.I.C. RATING: 10000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	A		B		C		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1	20 A	1		SPARE	0	0					SPARE		1	20 A	2
3	20 A	1		SPARE			0	0			SPARE		1	20 A	4
5	20 A	1		RECEPTACLE					0.5	0.4	RECEPTACLE		1	20 A	6
7	20 A	1		SPARE	0	0.4					RECEPTACLE		1	20 A	8
9	20 A	1		SPARE			0	0			SPARE		1	20 A	10
11	20 A	1		RECEPTACLE					0.4	0	SPARE		1	20 A	12
13	20 A	1		SPARE	0	0.9					RECEPTACLE		1	20 A	14
15	20 A	1		SPARE			0	1.1			RECEPTACLE		1	20 A	16
17	20 A	1		RECEPTACLE					0.9	0.9	RECEPTACLE		1	20 A	18
19	20 A	1		RECEPTACLE	1.1	1.6					RECEPTACLE		1	20 A	20
21	20 A	1		RECEPTACLE			1.9	0.9			RECEPTACLE		1	20 A	22
23	20 A	1		RECEPTACLE					1.1	1.1	RECEPTACLE		1	20 A	24
25	20 A	1		RECEPTACLE	1.1	0.2					RECEPTACLE	G	1	20 A	26
27	20 A	1		RECEPTACLE			1.3	1.8			RECEPTACLE	G	1	20 A	28
29	20 A	1		RECEPTACLE					0.9	1	RECEPTACLE	G	1	20 A	30
31	20 A	1	G	RECEPTACLE	1.2	1.1					RECEPTACLE		1	20 A	32
33	20 A	1	G	RECEPTACLE			0.8	0.4			RECEPTACLE		1	20 A	34
35	20 A	1		RECEPTACLE					1.3	0.4	RECEPTACLE		1	20 A	36
37	20 A	1		RECEPTACLE	0.5	0.1					EF-1		1	20 A	38
39	20 A	1		RECEPTACLE			0.5	0.1			PLUMBING TRANSFORMER		1	20 A	40
41	20 A	1		RECEPTACLE					0.4	0.2	PROJECTOR SCREEN		1	20 A	42
43	20 A	1		RECEPTACLE	0.2	0.4					DOOR POWER		1	20 A	44
45	20 A	1		RECEPTACLE			0.4	0.6			EM. COMM.	HL	1	20 A	46
47	20 A	1		SPARE					0	0	SPARE		1	20 A	48
49	20 A	1		SPARE	0	0					SPARE		1	20 A	50
51	20 A	1		SPARE			0	0			SPARE		1	20 A	52
53	20 A	1		SPARE					0	0	SPARE		1	20 A	54
55	20 A	1		SPARE	0	0					SPARE		1	20 A	56
57	20 A	1		SPARE			0	0			SPARE		1	20 A	58
59	20 A	1		SPARE					0	0	SPARE		1	20 A	60
				TOTAL CONNECTED KVA BY PHASE	8.7 kVA		9.7 kVA		9.3 kVA						
				TOTAL CONNECTED AMPS BY PHASE	72.3 A		81.7 A		78.1 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	1170 VA	100.00%	1170 VA	
Lighting	0 VA	0.00%	0 VA	**TOTAL CONNECTED KVA** 27.7 kVA
Other	0 VA	0.00%	0 VA	**TOTAL CALCULATED KVA** 19.5 kVA
RECEPTACLE	26320 VA	69.00%	18160 VA	
Power	180 VA	100.00%	180 VA	**TOTAL CONNECTED AMPS** 76.8 A
				TOTAL CALCULATED AMPS 54.2 A

NOTES:

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www.KEDbluestone.com

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL SCHEDULES EA601

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)
A	6" ABOVE COUNTER OR BACKSPLASH
	TO CENTERLINE OF DEVICE
A, AMP	AMPERE
AC	ABOVE COUNTER, AIR CONDITIONING UNIT
ACLG	ABOVE CEILING
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFCI	ARC FAULT CIRCUIT
	INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATC	AUTOMATIC TEMPERATURE CONTROLS
	CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
B	BLACK DEVICE COLOR WITH BLACK
	UNBREAKABLE THERMOPLASTIC COVER
	PLATE
BAS	BUILDING AUTOMATION SYSTEM
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DO	AUTOMATIC DOOR OPENER
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE-THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER
	SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FPC	FIRE PROTECTION CONTRACTOR
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GYP BD	GYPSUM BOARD
HWC-#	DOMESTIC WATER CIRCULATING PUMP
HOA	HANDS-OFF-AUTOMATIC SWITCH
H	INSTALL DEVICE HORIZONTALLY
HH	HANDHOLE
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR
	CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
M	INSTALL DEVICE IN MILLWORK
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
N/A	NOT APPLICABLE
NFDS	NON-FUSED SAFETY DISCONNECT
	SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PC	PLUMBING CONTRACTOR
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QTY	QUANTITY
RAC	RIGID ALUMINUM CONDUIT
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RMC	RIGID METALLIC CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
SLD	SINGLE-LINE DIAGRAM
SN	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SPP	SINGLE-POINT POWER
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TERM	TERMINAL
T	TAMPER RESISTANT
TL	TWIST LOCK
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
#"	LOCATION-SPECIFIC MOUNTING
	HEIGHT ABOVE FINISHED FLOOR
	TO CENTERLINE OF DEVICE
∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

GENERAL PLAN SYMBOLS

MARK	SCHEDULED EQUIPMENT (UNDERLINED)
MARK	NONSCHEDULED EQUIPMENT
(E) MARK	EXISTING EQUIPMENT - (E) PREFIX (HALFTONE)
(R) MARK	EXISTING RELOCATED EQUIPMENT - (R) PREFIX
# / #	SECTION VIEW, TOP REPRESENTS DETAIL NUMBER, BOTTOM REPRESENTS SHEET NUMBER
# / #	ENLARGED VIEW, TOP REPRESENTS VIEW NUMBER, BOTTOM REPRESENTS SHEET NUMBER
———	NEW WORK BY THE EC (DARK SOLID LINE)
— — —	NEW UNDERGROUND WORK BY THE EC (DARK DASHED LINE)
———	WORK BY OTHERS AND/OR EXISTING (LIGHT SOLID LINE)
- - - - -	DEMO WORK BY THE EC (DARK DASHED LINE)
— · —	MATCHLINE
(X)	KEYED NOTE

ACCESS CONTROL SYMBOLS

SYMBOL	DESCRIPTION
AS	ALARM SWITCH
DC	DOOR CONTACT
CR	CARD READER
J	FLUSH MOUNTED JUNCTION BOX
ACP-#	ACCESS CONTROL PANEL
ES	ELECTRIC STRIKE
GB	GLASS BREAK SENSOR
KP	KEYPAD
ML	MAGNETIC LOCK
MC	MONEY CLIP
	MOTION DETECTOR
OPTURN-#	OPTICAL TURNSTILE
REX	REQUEST TO EXIT
BR	BIOMETRIC READER
DSW	DOOR SWITCH

CELLULAR SYMBOLS

SYMBOL	DESCRIPTION
IBFC	INDOOR CELLULAR ENHANCEMENT ANTENNA
OBFC	OUTDOOR CELLULAR ENHANCEMENT ANTENNA
IRFS	INCOMING SERVICE CELLULAR ENHANCEMENT ANTENNA

AV SYMBOLS

SYMBOL	DESCRIPTION
AV-#	AV CABINET
CAM-#	CONFERENCE CAMERA
MC	CEILING MOUNTED MICROPHONE
S A	CEILING MOUNTED AUDIO SPEAKER
J	JUNCTION BOX
S A	WALL MOUNTED AUDIO SPEAKER
MC T	TABLETOP MICROPHONE
MPC-#	MEDIA PRESENTATION CONTROLLER
MPWP-#	MEDIA PRESENTATION WALL PLATE
PS $	PROJECTOR SCREEN OVERRIDE SWITCH
PRS-#	PROJECTOR SCREEN
PRO-#	PROJECTOR
TV-#	TELEVISION
AVI	AV RACK BACKBOX
PLIFT-#	PROJECTOR LIFT

SOUND MASKING SYMBOLS

SYMBOL	DESCRIPTION
SM	DIRECT FIRE SOUND MASKING SPEAKER
SM	SOUND MASKING SPEAKER
V	VOLUME CONTROL
AMP-SM-#	SOUND MASKING AMPLIFIER

NURSE CALL SYMBOLS

N	WALL MOUNTED NURSE CALL DEVICE
	CEILING MOUNTED NURSE CALL DOME LIGHT
D	WALL MOUNTED NURSE CALL DOME LIGHT

CABLE TV SYMBOLS

SYMBOL	DESCRIPTION
TV	CABLE TV COAX JACK
TV C	CABLE TV COAX JACK - CEILING MOUNTED
MAU	DISTRIBUTION AMPLIFIER

CCTV SYMBOLS

SYMBOL	DESCRIPTION
	SECURITY CAMERA ROUGH-IN ONLY - CEILING MOUNTED
	SECURITY CAMERA ROUGH-IN ONLY - WALL MOUNTED
	SECURITY CAMERA
SMON-#	SECURITY MONITOR
NVR	NETWORK VIDEO RECORDER

INTERCOM SYMBOLS

SYMBOL	DESCRIPTION
INT CO	INTERCOM COLOR DOOR STATION
INT	EMERGENCY VANDAL RESISTANT PHONE TOWER
INT M	INTERCOM MASTER STATION
INT D	INTERCOM DOOR STATION
INT AR	INTERCOM AREA OF RESCUE CALL BUTTON
INT MAR	INTERCOM AREA OF RESCUE MASTER STATION

PAGING SYMBOLS

SYMBOL	DESCRIPTION
AMP	TELEPHONE PAGING AMPLIFIER
S A	HORN SPEAKER - WALL MOUNTED
S	HORN SPEAKER - CEILING MOUNTED
S	PAGING SPEAKER OR DROP IN CEILING GRID SPEAKER
V	VOLUME CONTROL

CLOCK SYMBOLS

SYMBOL	DESCRIPTION
ETC $	ELAPSED TIME CLOCK CONTROL
C 2	WIRELESS ANALOG CLOCK DUAL FACE
C D	DIGITAL WIRELESS CLOCK
C ETC	DIGITAL ELAPSED TIME CLOCK
C	WIRELESS ANALOG CLOCK SINGLE FACE
	ALARM BELL

NETWORK SYMBOLS

SYMBOL	DESCRIPTION
CT-#	CABLE TRAY
J	JUNCTION CEILING MOUNTED DOUBLE GANG
ER-#	EQUIPMENT RACK
MTGB	GROUND BAR
#	INFORMATION OUTLET
#	INFORMATION OUTLET MOUNTED IN CEILING
#	INFORMATION OUTLET MOUNTED IN FLOORBOX
LR-#	LADDER RACK
MPP-#	MODULAR PATCH PANEL
TTB-#	TELECOMMUNICATION TERMINAL BOARD
VM-#	VERTICAL WIRE MANAGEMENT
WAP	INFORMATION OUTLET FOR WIRELESS ACCESS POINT

TECHNOLOGY SHEET LIST

TA000	TECHNOLOGY COVER PAGE
TA100	TECHNOLOGY 1ST & 2ND OVERALL PLAN
TA101	TECHNOLOGY 1ST & 2ND FLOOR PLAN
TA500	TECHNOLOGY DETAILS
TA501	TECHNOLOGY DETAILS
TA502	TECHNOLOGY DETAILS
TA600	TECHNOLOGY SCHEDULES

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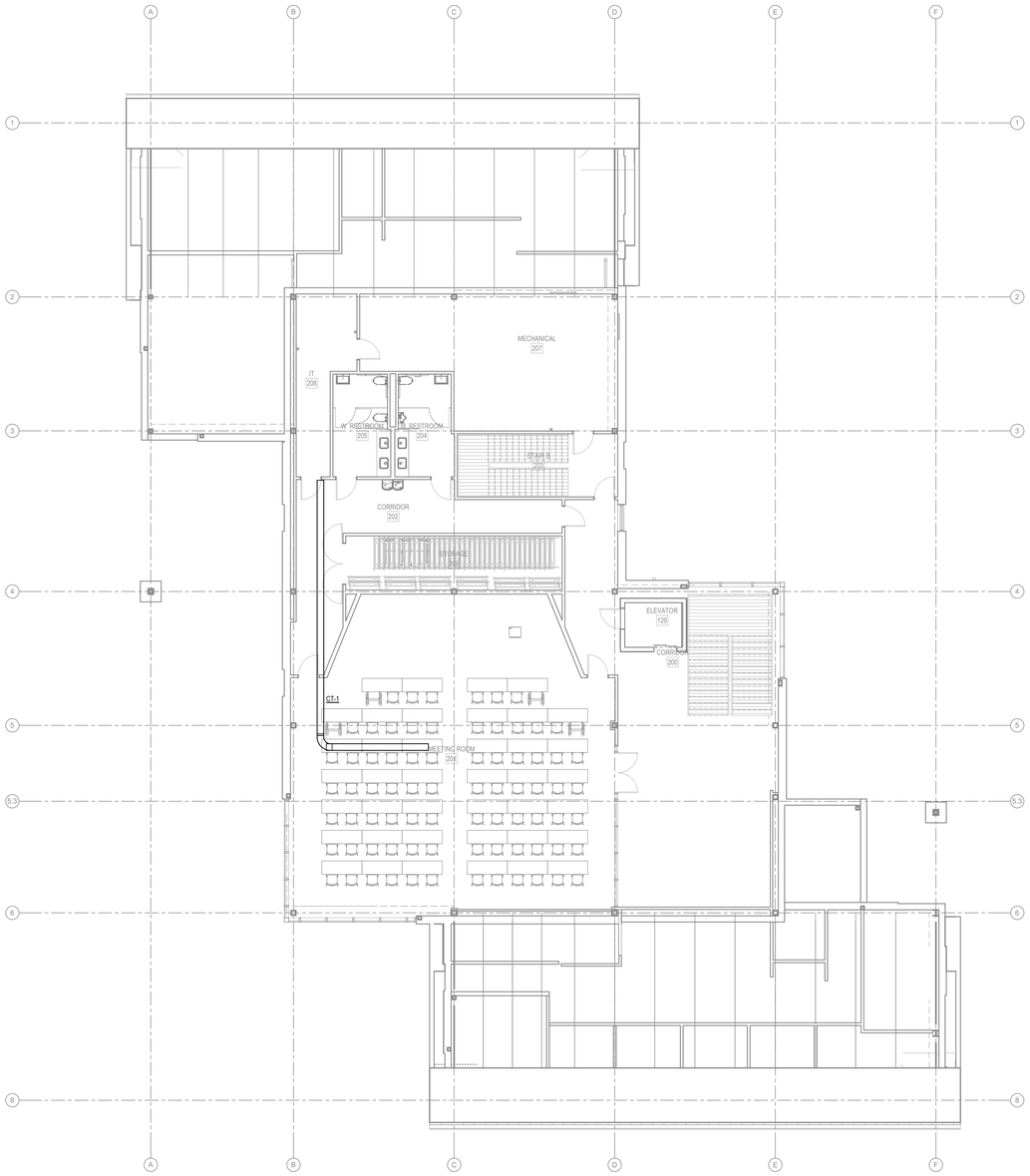
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TECHNOLOGY COVER PAGE TA000



2 TECHNOLOGY OVERALL SECOND FLOOR PLAN

1/8" = 1'-0"

NOTES:

1. FOR REFERENCE ONLY.

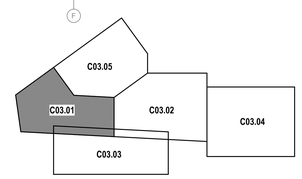


1 TECHNOLOGY OVERALL FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES:

1. FOR REFERENCE ONLY.



KEY MAP

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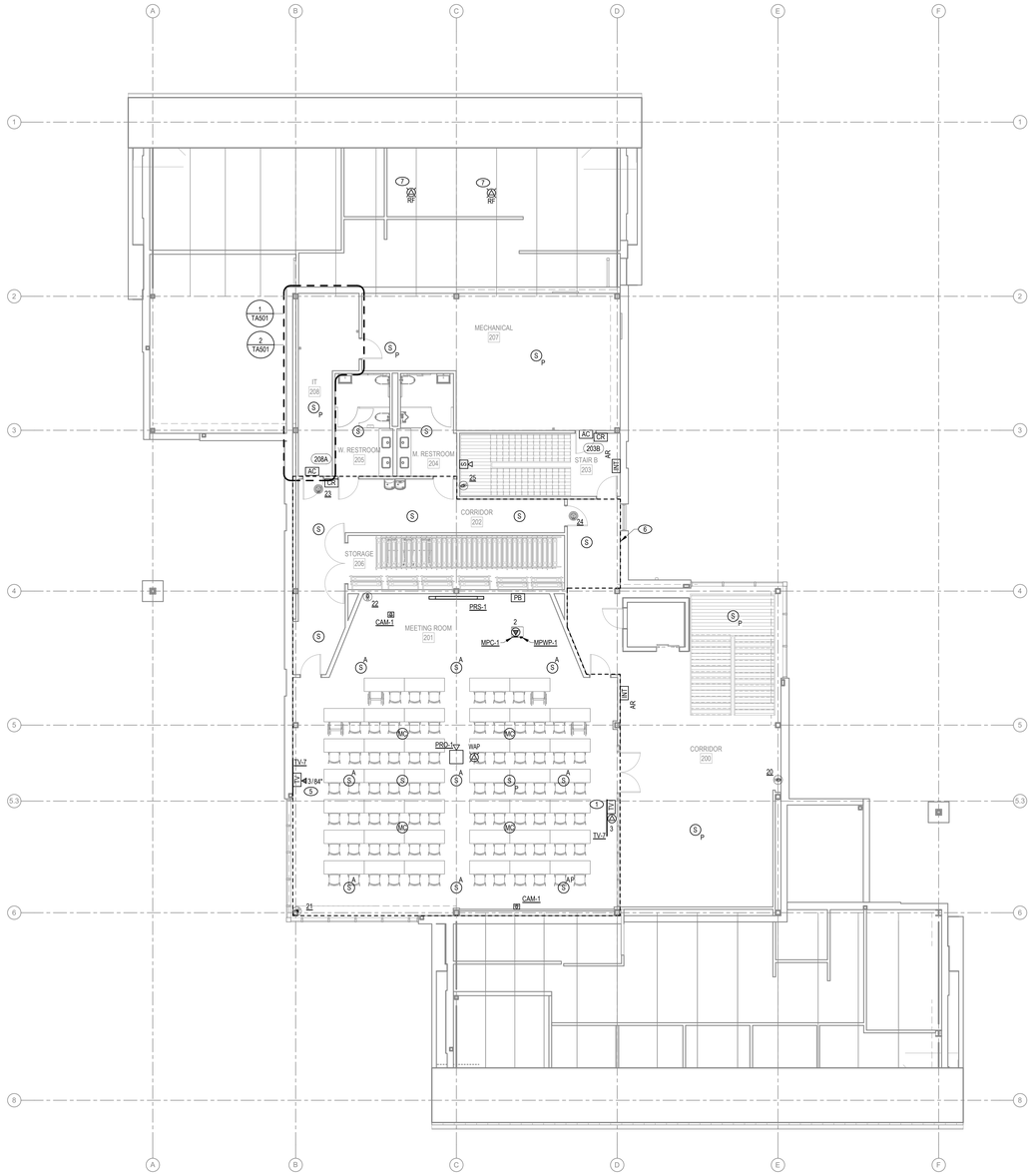
TECHNOLOGY 1ST & 2ND OVERALL PLAN **TA100**

GENERAL NOTES:

1. INFORMATION OUTLETS ON THIS SHEET SHALL BE FED OUT OF MECHANICAL AND IT 208.
2. OWNER TO ARRANGE AND CONDUCT THEIR OWN WIRELESS SURVEY AFTER CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE IF ANY ADDITIONAL LOCATIONS ARE REQUIRED AFTER SURVEY IS COMPLETED.
3. MASS NOTIFICATION SYSTEM CONSISTS OF AMPLIFIER, CABLING, AND NEW SPEAKERS.
4. CCTV CAMERA SYSTEM CONSISTS OF SOFTWARE, SERVER, CABLING, AND CAMERAS.
5. ACCESS CONTROL SYSTEM CONSISTS OF HEADEND, SOFTWARE, CARD READERS, REQUEST EXIT, DOOR CONTACTS, AND ELECTRIC STRIKES.
6. CATV SYSTEM CONSISTS OF AMPLIFIER AND RG-6 CABLING. REFER TO 1/TA502 FOR RISER DIAGRAM. REFER TO SPECIFICATION SECTION 274133 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

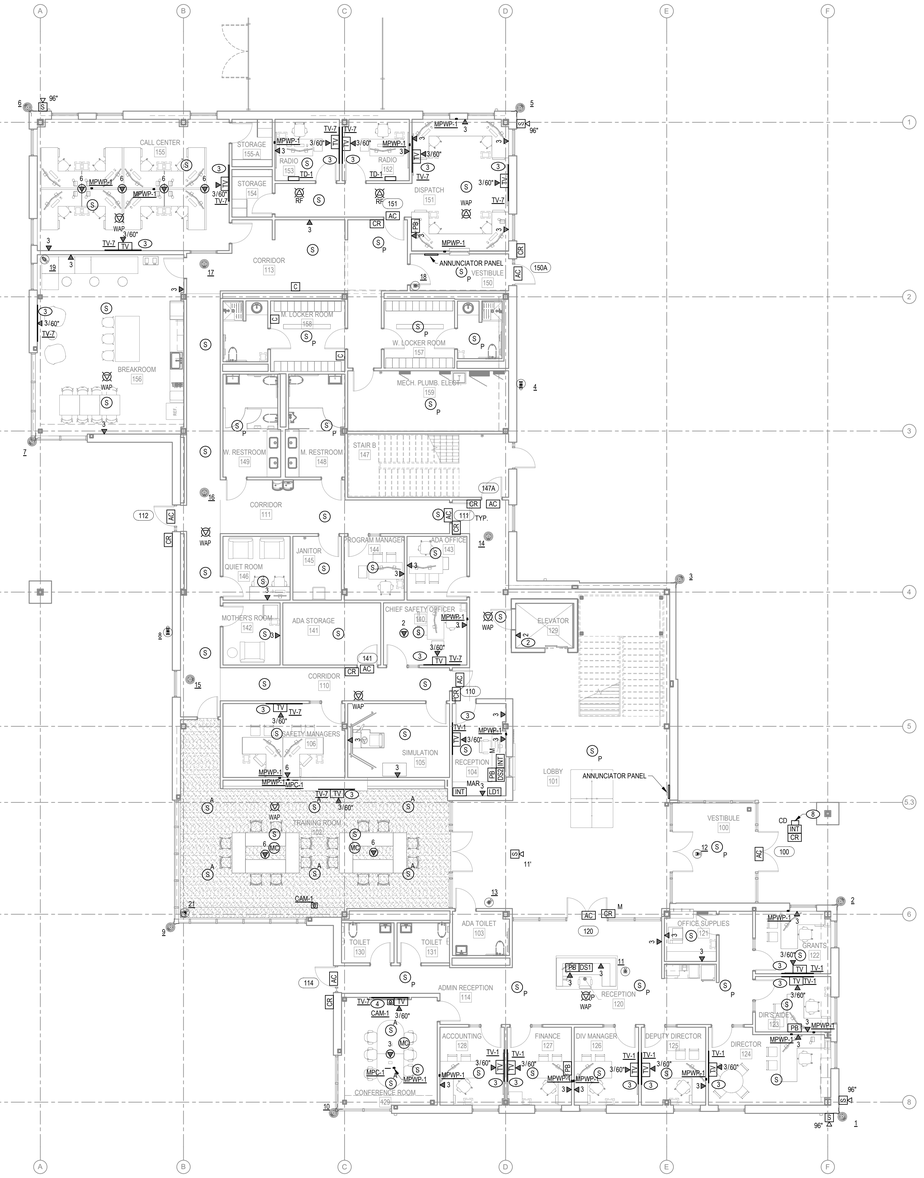
1. REFER TO D/TA600 FOR CEILING MOUNTED TV ELEVATION.
2. CONTRACTOR TO COORDINATE EXACT LOCATION WITH ELEVATOR OR CONTRACTOR PRIOR TO INSTALLATION.
3. REFER TO 5/TA501 FOR TV ELEVATION.
4. REFER TO 7/TA501 FOR TV ELEVATION WITH VIDEO CONFERENCE.
5. REFER TO 1/TA600 FOR TV ELEVATION WITH PULL OUT ARM.
6. DEVICES IN AREA ARE FUTURE/SPACE IS SHELL SPACE.
7. ROOF PENETRATION FOR RADIO ANTENNAS. COORDINATE LOCATIONS WITH OWNERS INTEGRATOR. REFER TO 3/TA600 FOR ANTENNA DETAIL.
8. PEDESTAL PROVIDED/INSTALLED BY DOOR HARDWARE INTEGRATOR.



N

1 TECHNOLOGY SECOND FLOOR PLAN

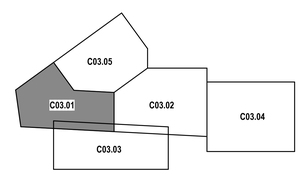
1/8" = 1'-0"



N

2 TECHNOLOGY FIRST FLOOR PLAN

1/8" = 1'-0"



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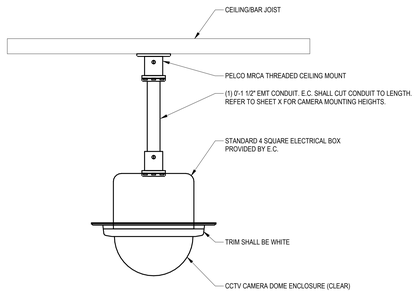
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Revisions

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TECHNOLOGY 1ST & 2ND FLOOR PLAN TA101

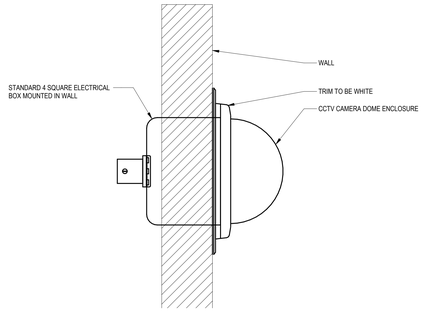


5 INTERIOR POLE MOUNT CAMERA DETAIL

N.T.S.

NOTES:

1. ALL INTERIOR CAMERAS AND MOUNTING HARDWARE SHALL MATCH THE CEILING COLOR. PROVIDE CAT6 UTP AND INSTALL/HIDE CABLING WITHIN BAR JOIST TO NEAREST DATA CLOSET.

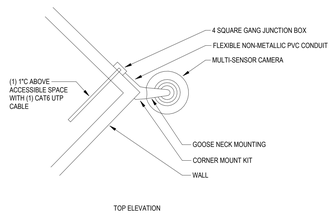


4 WALL MOUNT CAMERA DETAIL

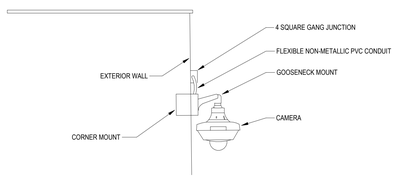
N.T.S.

NOTES:

1. E.C. SHALL PROVIDE STANDARD 4 SQUARE ELECTRICAL BOX FLUSH MOUNTED IN WALL. PROVIDE CAT6 UTP AND ROUTE THROUGH 3/4" CONDUIT TO ACCESSIBLE SPACE.



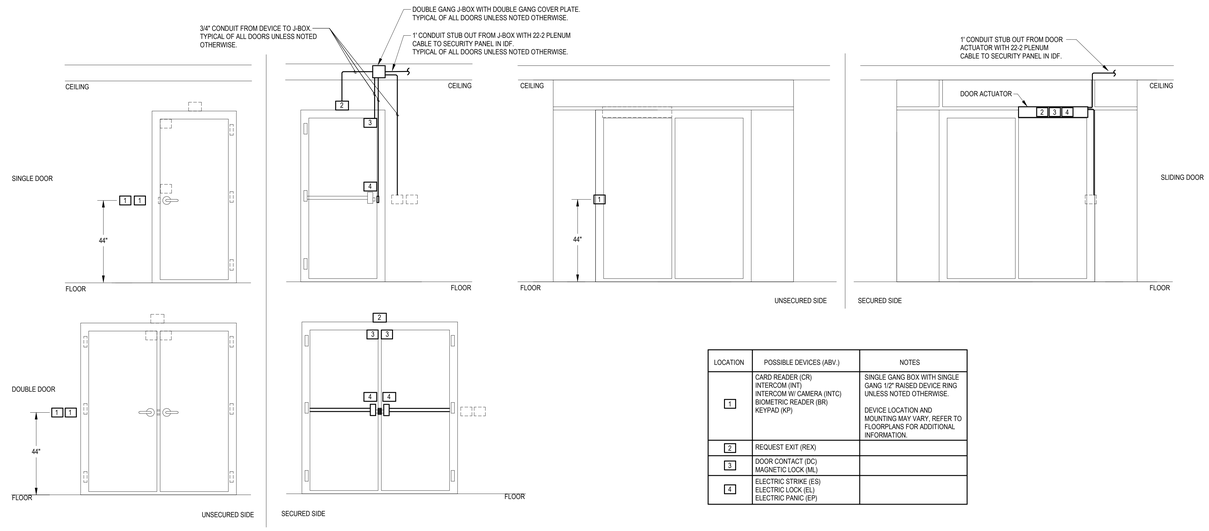
TOP ELEVATION



SIDE ELEVATION

3 EXTERIOR CORNER MOUNT CAMERA DETAIL

N.T.S.



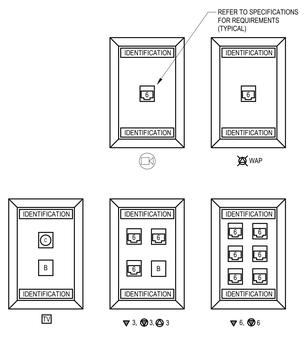
LOCATION	POSSIBLE DEVICES (ABV.)	NOTES
1	CARD READER (CR) INTERCOM (INT) INTERCOM W/ CAMERA (INTC) BIOMETRIC READER (BR) KEYPAD (KP)	SINGLE GANG BOX WITH SINGLE GANG 1/2" RAISED DEVICE RING UNLESS NOTED OTHERWISE. DEVICE LOCATION AND MOUNTING MAY VARY. REFER TO FLOORPLANS FOR ADDITIONAL INFORMATION.
2	REQUEST EXIT (REX)	
3	DOOR CONTACT (DC) MAGNETIC LOCK (ML)	
4	ELECTRIC STRIKE (ES) ELECTRIC LOCK (EL) ELECTRIC PANIC (EP)	

2 ACCESS CONTROL DOOR DETAIL

N.T.S.

NOTES:

1. OWNERS SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL 24V FOR DOOR HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V TO POWER SUPPLIES.



INFORMATION OUTLET JACK LEGEND

SYMBOL	DESCRIPTION	MODEL #
B	BLANK MODULE	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
	CAT6 RJ-45 JACK #= QUANTITY OF DATA ALL ARE DATA UNLESS NOTED OTHERWISE	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
	1 DATA JACK FOR CCTV SYSTEM	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
	"F" TYPE COUPLER MODULE	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
#	INFORMATION OUTLET ADAPTER - 4 PORT MOUNTED IN FLOORBOX PROVIDED BY OTHERS. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
#	CEILING INFORMATION OUTLET BOX: (1) CEILING SURFACE MOUNTED BOX SHALL BE SECURELY SUPPORTED ABOVE CEILING. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
#	INFORMATION OUTLET (1) 4" SQUARE BOX, SINGLE GANG PLASTER RING, FLUSH MOUNT ON WALL OR AS NOTED ON PLANS. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR
WAP	CEILING WIRELESS ACCESS POINT: (1) CEILING SURFACE MOUNTED BOX SHALL BE SECURELY SUPPORTED ABOVE CEILING.	EQUIPMENT PROVIDED/INSTALLED BY OWNER'S INTEGRATOR

1 INFORMATION OUTLET DETAIL

N.T.S.

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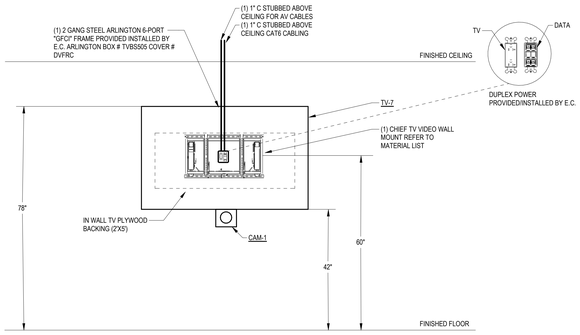
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OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

TECHNOLOGY DETAILS **TA500**

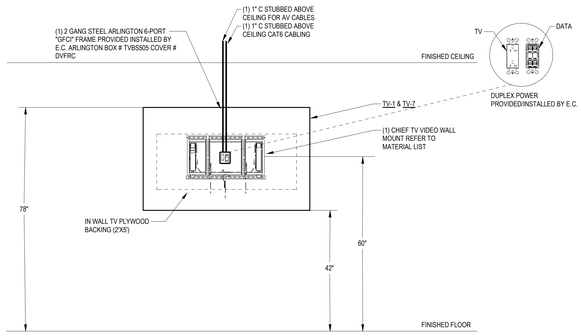


7 75" TV ELEVATION WITH VIDEO

N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.
3. TV AND TV MOUNT SHALL BE CENTERED WITH TABLE IN LIEU OF CENTER ON WALL.

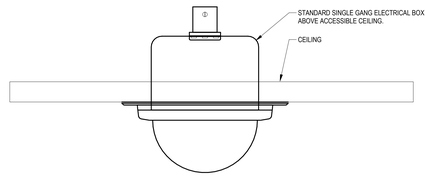


5 65" AND 75" TV ELEVATION

N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.
3. HDMI (MPWP-1) BEING ROUTED FROM WORKSTATION TO BEHIND TV.

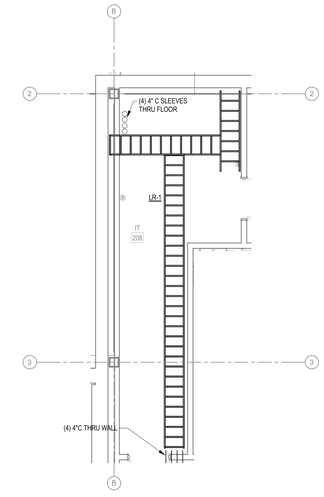


4 CEILING CAMERA MOUNTING DETAIL

N.T.S.

NOTES:

1. E.C. SHALL PROVIDE STANDARD SINGLE GANG ELECTRICAL BOX MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE CAT6 UTP AND WHIP THROUGH THE CEILING.



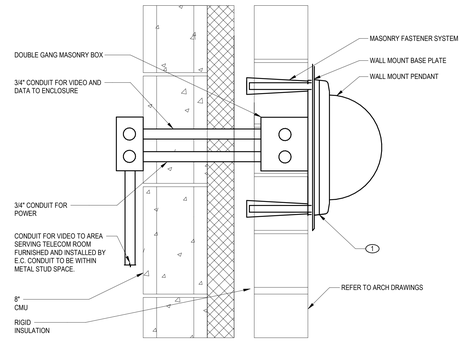
N

2 TECHNOLOGY OVERHEAD PLAN IDF 208

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TA501 FOR EQUIPMENT PLAN.



6 EXTERIOR CAMERA MOUNTING DETAIL

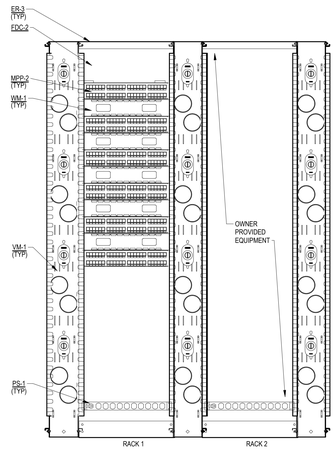
N.T.S.

NOTES:

1. SECURE WALL MOUNT BASE PLATE TO METAL STUDS WITH FASTENERS. DO NOT SECURE TO METAL PANEL.
2. SEAL WALL MOUNT BASE PLATE TO METAL PANEL TO PREVENT WATER INFILTRATION.
3. IF A COMMON BACKBOX IS USED PROVIDE BOX DIVIDER FOR POWER AND VIDEO/DATA.
4. COORDINATE ALL WORK ON THE EXTERIOR WITH G.C. FINAL INSTALLATION SHALL NOT VIOLATE THE WARRANTY WALL OR COMPROMISE WATER AND AIR SEAL OF THE SYSTEM.

KEYED NOTES:

1. SECURITY CONTRACTOR SHALL FURNISH AND INSTALL BLACK COVER PLATE FOR ROUGH-IN LOCATIONS. SECURITY CAMERA HOUSING SHALL BE PAINTED TO MATCH EXTERIOR.

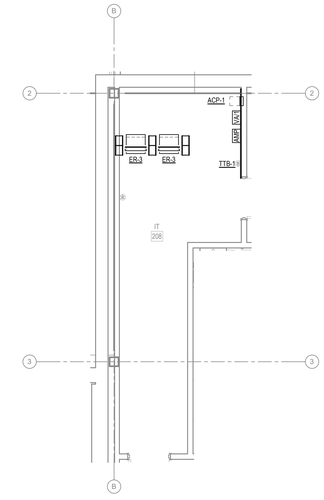


3 RACK ELEVATION DETAIL

N.T.S.

NOTES:

1. AVAILABLE SPACE IN RACK IS FOR OWNER PROVIDED SWITCHES AND EQUIPMENT. EQUIPMENT PROVIDED BY OWNER'S TELECOM CONTRACTOR.
2. FOR REFERENCE ONLY.



N

1 TECHNOLOGY EQUIPMENT PLAN IDF 208

1/4" = 1'-0"

NOTES:

1. REFER TO 3/TA501 FOR RACK ELEVATION.
2. REFER TO 2/TA501 FOR OVERHEAD PLAN.

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Revisions.

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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TECHNOLOGY DETAILS **TA501**

EQUIPMENT	KED-BSE DRAWINGS - DEVICE LOCATIONS	EQUIPMENT BY OWNER	INSTALLATION OF EQUIPMENT	INSTALLATION OF CABLE	ROUGH-IN AND PATHWAY INSTALLATION	COMMENTS
TELEPHONE SYSTEM		X	OWNER			VOIP SYSTEM (Using existing system)
WIRELESS ACCESS POINTS - EQUIPMENT	X	X	OWNER	SECURITY ENGINEERING	EC	OWNER TO PROVIDE EQUIPMENT (DESIGN STILL NEEDED FOR DROP LOCATIONS AND DATA INSTALLATION BY SECURITY ENGINEERING)
WIRELESS ACCESS POINT ROUGH-IN - (1) CAT 6 PLENUM CABLING	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM CABLE-PHONE/PRINTERS/FAX/ANALOG TYPE CABLE	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM FOR FLOOR BOX - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - CAMERA	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
TESTING - FIBER AND CAT6A AND LABELING	x		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
FIBER DISTRIBUTION CABINET	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RACK HORIZONTAL MANAGER	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RJ-45 JACKS AT WORKAREA AND IDF MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FACEPLATES	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
EQUIPMENT RACKS (4POST IN THE MDF AND 2POST IN IDF TYPE WITH VERTICAL HORIZONTAL MANAGERS)	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT RACK	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT WORKSTATIONS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
BACKBONE FIBER OPTIC CABLING -TERMINATIONS BETWEEN THE MDF AND IDF ROOMS	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FIBER PATH CORDS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
MDF/IDF ROOM - TELECOM TERMINAL BOARD, CONDUIT SLEEVES, OVERHEAD LADDER RACK AND GROUNDING BAR	X		EC	EC	EC	
NETWORK SWITCHES		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
ROUTERS, MODEMS, PHONE EQUIPMENT, HANDSETS		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
CONDUITS–J-BOXES					EC	
SERVICE PROVIDER CABLING TO THE MDF -NETWORK	X		UNITI	UNITI	EC	OWNER TO WORK WITH THERE PREFERRED INTEGRATOR AND COORDINATE ALL CONTRACTS OF ESTABLISHING SERVICE TO THE FACILITY
CONDUIT ROUTE FROM THE SERVICE PROVIDERS MEET ME POINT TO THE MDF IN ADMINISTRATION BUILDING. INCLUDES CONDUITS AND HANDHOLES INTO THE MDF/IDF ROOMS	X				EC	
WIRED BASKET TRAY	X				EC	
MASS NOTIFICATION / PAGING SPEAKERS - INTERIOR AND EXTERIOR	X	X	SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SPEAKERS TO BE INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MASS NOTIFICATION / PAGING SYSTEM HEADEND	X		OWNERS VENDOR	OWNERS VENDOR	EC	INTERGRATED WITH EXISTING NOTIFICATION SYSTEM (INFORMACAST)
ACCESS CONTROL PANEL - LENEL ONGUARD	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CARD READERS- DUAL AUTHENTICATIONS	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CODE BLUE STATIONS INTERCOM/CAMERA PEDESTALS -CODE BLUE	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
ELECTRIC LATCH/STRIKES -PROVIDED BY DOOR HARDWARE INTEGRATOR	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
TCATNOC ROOD	X		CE	CE	CE	(GHT NO GNKROW SEITILICAF(GNREENGNE YTRUCES YB DEDVORP EB OT
LOCKDOWN	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
REQUEST TO EXIT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PANIC ALARM SWITCHES	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERA SYSTEM - SOFTWARE, CAMERAS LICENSES, AND STORAGE -AVIGILON		X	S			TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV MONITOR -VIEWING STATION 55" TV	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERAS INTERIOR AND EXTERIOR - AVIGILON	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
AREA OF REFUGE MASTER HEADEND AND INTERCOM BUTTON AND WIRING	X		EC	EC	EC	
TVS AND TV MOUNTS WITH BRIGHT SIGN DIGITAL MEDIA PLAYER -DIGITAL SIGNAGE LOCATIONS	X		EC	EC	EC	TRANSIT BUS MESSAGE BOARDS-ONLY -NO DIGITAL SIGNAGE LOCATIONS ANYWHERE ELSE FOR THE PROJECT
TRAINING ROOM AND CONFERENCE ROOM - FLOOR BOXES ONLY	X		EC	EC	EC	
TRAINING ROOM AV SYSTEM -TVS TV MOUNTS, FRONT/REAR CAMERAS, AMPLIFIER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS FRONT OF ROOM)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
CONFERENCE ROOM AV SYSTEM -TVS TV MOUNTS, FRONT CAMERAS, AMPLIFIER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT CONFERENCE TABLE)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
MEETING ROOM AV SYSTEM -CEILING PROJECTOR, CEILING PROJECTOR SCREEN, TV DISPLAYS FOR BACK OF HOUSE VIEWING, FRONT/REAR CAMERAS,AMPLIFIER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT LECTURN)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
TVS AND TV MOUNTS WITH HDMI CABLING FOR PRESENTATION IN OFFICES TYPE-SIZE ROOMS -(RADIO, CALL CENTER, SAFETY OFFICER, ACCOUNTING, FINANCE, DIV MANAGER, DEPUTY DIRECTOR, DIRECTOR, MAINTENANCE SUPERVISOR, FACILITY MANAGER, AND FACILITY MANAGER)	X		EC	EC	EC	
INTERCOM CAMERA/DOOR STATION AND INTERCOM MASTER STATION AT GATE ENTRANCES AND ENTRANCES INTO FACILTY - AIPHONE	X		EC	EC	EC	
UPS	X		EC	EC	EC	
TIME CLOCK LOCATIONS (NETWORK CABLING) - ADMIN BUILDING: CORR 113 ON WALL OF ROOM AND ROOM 158 LOCKER RM(TWO CLOCKS) - MAINT BLDG: CORR 101 - TRANSFER CNTR: INSIDE DOOR OF BREAK RM ON WALL ON THE RIGHT SIDE.	X		OWNERS VENDOR	OWNERS VENDOR	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PRINTER LOCATIONS (NETWORK CABLE) ADMIN BUILDING: OFFICE SUPPLIES 121, RECEPT 120, SAFETY HALLWAY, RECEPT 158, DISPATCH / RADIO ROOMS, CALL CENTER. MAINTENANCE BUILDING 101, MAINT SUPERVISOR OFFICE, ROOM120, TRANSFER BUILDING: CUSTOMER SERVICE AWA, AND ADMIN BUILDING ROOM 104 AND 105	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CATV JACKS: ADMIN BUILDING ROOMS -DIR RM 134, DEPUTY DIR RM 135, DIV MAN RM 136, FIN RM 127, ACCNT RM 128, CONF RM 129, TRAIN RM 152, CHIEF SAFETY RM 140, SAFETY MAN RM 106, DISPATCH RM 151,RADIO RM 152 & 153, CALL CNTR RM 155, MEET RM 201. MAINT BLDG: BREAK RM 102, FACILITY MAN RM 104, MAIN MAN RM 122. TRANSFER CENTER, CUSTOMER WAITING RM, CUST SERV RM 339, AND BREAK RM 347	X		EC	EC	EC	
RADIO ROOM EQUIPMENT/ANTENNA LOCATIONS THE TWO RADIO ROOMS IN THE ADMIN BUILDING ARE THE ONLY ROOMS THAT WILL GET RADIOS INSTALLED						EQUIPMENT TO BE RELOCATED FROM EXISTING LOCATION. OWNERS VENDOR (CES) TO RELOCATE/RE-INSTALL/TEST EQUIPMENT
CATV SYSTEM HORIZONTAL CABLE TO THE NEAREST MDF/IDF-NO SPLITTER, COUPLERS, OR TAPS	X		EC	EC	EC	
AMPLIFIERS		X	EC	EC	EC	

1 CATV RISER DIAGRAM
N.T.S.

NOTES:

1. SEE SPECIFICATION SECTION 274133 FOR ADDITIONAL INFORMATION.

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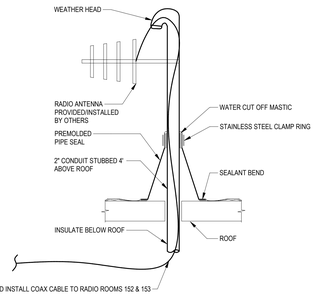
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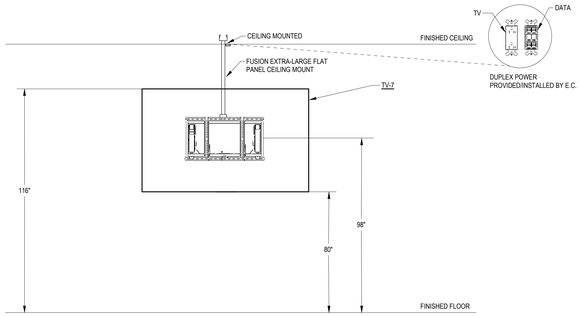
Revisions.

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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TECHNOLOGY DETAILS **TA502**



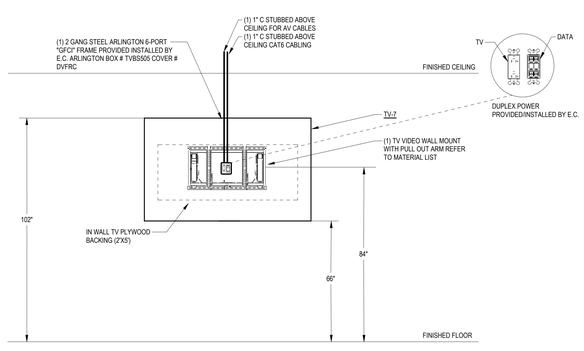
3 RADIO ANTENNA ROOF PENETRATION DETAIL
N.T.S.



2 75" TV ELEVATION CEILING MOUNT
N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.



1 75" TV ELEVATION WITH PULL OUT ARM
N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.

CAMERA SCHEDULE

CCTV CAMERA. PROVIDE FLUSH FOUR SQUARE JUNCTION BOX FOR CAMERA WITH 3/4" C. FROM DEVICE TO JUNCTION BOX LOCATED ABOVE ACCESSIBLE SPACE.
SUBSCRIPT "#" INDICATES SPECIFIC INFORMATION ON CAMERA CHARACTERISTICS.

REFER TO NETWORK SCHEDULE FOR FACEPLATE/RJ-45 JACK INFORMATION.

CAMERA NUMBER	CAMERA NAME	CAMERA MODEL	CAMERA TYPE	HEIGHT A.F.F.	FOV DISTANCE TO OBJECT	FOV UPPER LIMIT	FOV BOTTOM LIMIT	FOV ACTUAL FOCAL LENGTH	FOV RANGE OF LENS	REFER TO MOUNTING DETAIL	COMMENTS
1	SE EXT CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
2	SE EXT	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
3	E EXT	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
4	NE EXT	AVIGILON ALTA H6A - WALL MOUNT	FIXED BULLET CAMERA	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	12	12 - 48		REFER TO 6/TA501 FOR EXTERIOR WALL MOUNTING DETAIL
5	NE EXT CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
6	NW EXT CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
7	NW EXT	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
8	W EXT	AVIGILON ALTA H6A - WALL MOUNT	FIXED BULLET CAMERA	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	12	12 - 48		REFER TO 6/TA501 FOR EXTERIOR WALL MOUNTING DETAIL
9	SW EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
10	SW EXT CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 3/TA500 FOR EXTERIOR CORNER MOUNT CAMERA DETAIL.
11	RECEPTION 120	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
12	VESTIBULE 100	AVIGILON ALTA H6M - PENDANT MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 5/TA500 FOR INTERIOR POLE MOUNT CAMERA DETAIL.
13	LOBBY 101 S	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
14	LOBBY 101 N	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
15	CORRIDOR 112 S	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
16	CORRIDOR 112 N	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
17	CORRIDOR 113	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
18	VESTIBULE 150	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL
19	BREAKROOM 156	AVIGILON ALTA H6M - WALL MOUNT	FIXED DOME CAMERAS	0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA500 FOR WALL MOUNT CAMERA DETAIL.
20	CORRIDOR 200	AVIGILON ALTA H6M - WALL MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA500 FOR WALL MOUNT CAMERA DETAIL.
21	MEETING RM 201 S	AVIGILON ALTA H6M - PENDANT MOUNT	FIXED DOME CAMERAS	8'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 5/TA500 FOR INTERIOR POLE MOUNT CAMERA DETAIL.
22	MEETING RM 201 N	AVIGILON ALTA H6M - WALL MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA500 FOR WALL MOUNT CAMERA DETAIL.
23	CORRIDOR 202 W	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL.
24	CORRIDOR 202 E	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TA501 FOR CEILING CAMERA MOUNTING DETAIL.
25	STAIR B	AVIGILON ALTA H6M - WALL MOUNT	FIXED DOME CAMERAS	9'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 4/TA500 FOR WALL MOUNT CAMERA DETAIL.

DOOR SCHEDULE

REFER TO 27/TA500 FOR DOOR ROUGH-IN DETAIL.

DOOR NUMBER	CARD READER	DOOR CONTACT	REQUEST EXIT (PIR)	REQUEST EXIT (BUTTON)	ELECTRIC STRIKE	ELECTRIC LATCH	ELECTRIC PANIC	INTERCOM CAMERA	INTERCOM	BIOMETRIC READER	MAGNETIC LOCK	KEYPAD	LOCKDOWN (LD#)	DOOR SWITCH (DS#)
100	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No	No	No	0	0
112	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
114	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	&2
120	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	1
141	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	2
147A	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
150A	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
151	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
203B	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
207	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
CORRIDOR 110	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0
CORRIDOR 111	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	0	0

NETWORK SCHEDULE

LABEL	DESCRIPTION	MODEL
CT-1	CABLE TRAY	CABLOFIL CF105/330EZ
ER-3	EQIPMENT RACK 2 POST 84"H'X23"WX3"D' BLACK, 45RU	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
FDC-2	OPTICAL FIBER DISTRIBUTION CABINET, SINGLEMODE FIBER COMBINATION SHELF FOR 72 LC TERMINATIONS. 4RU	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
LR-1	LADDER RACK, 18"W TUBULAR STEEL	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
MPP-2	FLAT MODULAR PATCH PANEL 48 PORT	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
MTGB	PRE-ASSEMBLED BUS COPPER GROUND BAR.	PANDUIT GB2B0312TPI-1 NEWTON INSTRUMENTS ERICO STORM COPPER OR AN APPROVED EQUAL
TTB-1	TELECOMMUNICATION TERMINAL BOARD, 3/4" PLYWOOD 4' X 8', PAINTED WHITE WITH FIRE RETARDANT PAINT.	
VM-1	VERTICAL WIRE MANAGEMENT 6" WIDE, SLACK LOOPS, WITH HINGED DOORS.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
WM-1	WIRE MANAGEMENT HORIZONTAL 2 RACK UNITS	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.

CATV SCHEDULE

SYMBOL	DESCRIPTION	MODEL
VA/1	PROFESSIONAL QUALITY, TWO WAY, BROADBAND INDOOR MULTI CHANNEL RF DISTRIBUTION AMPLIFIER. PROFESSIONAL QUALITY, TWO WAY. WALL MOUNTED.	BLONDER TONGUE BIDA 750-30
TV	WALL CATV/INFORMATION OUTLET BW (1) 4 SQUARE BOX, SINGLE GANG PLASTER RING, FLUSH MOUNTED ON WALL OR AS NOTED ON PLANS. PROVIDE (1) CAT6 UTP HORIZONTAL CABLE. PROVIDE (1) HDMI CABLE BETWEEN CATV OUTLET BOX AND HDMI ROUGH-IN. REFER TO 1/TA500 FOR INFORMATION OUTLET TYPES.	FACEPLATE: PANDUIT CFPE1IGY BLANK PLATE: PANDUIT CMBWH-X F-CONNECTOR: PANDUIT CMFWH JACK: CATE: PANDUIT CJ688TGWH HDMI CABLE: EXTRON

AV SCHEDULE

SYMBOL	DESCRIPTION	MODEL
S A#	AUDIO CEILING SPEAKER 6", ROTARY TAPPING, RECESSED TERMINATION BOX. WIDE DISPERSION FOR ADEQUATE COVERAGE, INCLUDE TILE RAILS, BACKBOXES, AND C-RING FOR INSTALLATION. PROVIDE/INSTALL EQUIPMENT, CABLING, AND CONNECTIONS. SUBSCRIPT "A" FOR PENDANT TYPE SPEAKER.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
MC	CEILING MICROPHONE, CEILING MOUNTED ADJUSTABLE DROP HEIGHT DEVICES, 360 DEGREE VOICE PICK UP. AVC. TO PROVIDE CABLING FROM EACH MICROPHONE TO THE CODEC HEADEND.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
PRO-1 VC	CEILING PROJECTOR 4000 LUMENS, PROVIDE ALL CABLING WITHIN PIPE AND ANY EXPOSED CABLE SHALL BE INSTALLED THRU SLEEVE AT PROJECTOR. PROVIDE/INSTALL UNIVERSAL PROJECTOR MOUNT, POLE, AND CEILING PLATE. E.C TO PROVIDE/INSTALL 20 AMP DUPLEX RECEPTACLE WITH A DOUBLE GANG BOX AND A 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
CAM-1	HD VIDEO CONFERENCE PTZ CAMERA WITH CODEC. REFER TO FLOORPLAN FOR LOCATIONS AND MOUNTING INFORMATION.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
MPC-1	MEDIA PRESENTATION CONTROLLER, MOUNT AT 42" A.F.F. PROVIDE SINGLE GANG JUNCTION BOX IN 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO FLOORPLAN FOR LOCATIONS.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
MPWP-1	MEDIA PRESENTATION WALL PLATE. PROVIDE DOUBLE GANG BOX WITH 1" C. TO ABOVE ACCESSIBLE CEILING CONTRACTOR TO PROVIDE HDMI CABLES TO ALL OFFICES. CABLES NOT PROVIDED FOR CONFERENCE, MEETING/TRAINING ROOMS. REFER TO MATRIX FOR ADDITIONAL INFORMATION. REFER TO FLOORPLAN FOR LOCATIONS.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
PRS-2	PROJECTION SCREEN, MOTORIZED, 65"H X 104"W. PROVIDE/INSTALL CABLING AND CONNECTIONS FROM EQUIPMENT RACK AND THE PROJECTION SCREEN.	PROVIDED/INSTALLED BY OWNER'S INTEGRATOR.
TV-1	TV MONITORS 65" WITH BUILT IN SPEAKERS AND MOUNTING HARDWARE. COORDINATE LOCATION OF TV MONITOR AND MOUNTING HARDWARE PRIOR TO INSTALLATION.	REFER TO SPECIFICATION SECTION 274100 FOR ADDITIONAL INFORMATION.
TV-7	TV MONITORS 75" WITH BUILT IN SPEAKERS AND MOUNTING HARDWARE. COORDINATE LOCATION OF TV MONITOR AND MOUNTING HARDWARE PRIOR TO INSTALLATION.	REFER TO SPECIFICATION SECTION 274100 FOR ADDITIONAL INFORMATION.

ACCESS CONTROL SCHEDULE

SYMBOL	DESCRIPTION	MODEL
ACP-#	ACCESS CONTROL PANEL	PROVIDED/INSTALLED BY SECURITY ENGINEERING
AC	ACCESS CONTROLLED DOOR. REFER TO DOOR SCHEDULE FOR DOOR INFORMATION.	
CR	CARD READER - PROVIDE FLUSH SINGLE GANG JUNCTION BOX FOR CARD READER. FROM DEVICE TO JUNCTION BOX TO ABOVE ACCESSIBLE SPACE. MOUNT AT 42" A.F.F. SUBSCRIPT "M" FOR MULLION MOUNT.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
DC	DOOR CONTACT - PROVIDE 1" DIAMETER HOLE IN THE FRAME. SNAP LOCK INSULATION BUSHING FOR TIGHT FIT.	REFER TO SPECIFICATION SECTION 281000 FOR ADDITIONAL INFORMATION.
DS#	DOOR SWITCH SHALL BE SURFACE MOUNTED UNDERNEATH WORK SURFACE. E.C. SHALL COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE 22-2 WIRE BETWEEN ALARM SWITCH DEVICES AND CONTROL PANEL. SECURITY VENDOR SHALL TEST MONITORING SYSTEM AFTER INSTALLATION. NUMBER INDICATES WHICH DOORS ARE CONTROLLED BY DOOR SWITCH. REFER TO DOOR SCHEDULE FOR DOORS CONTROLED BY EACH BUTTON.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
ES	ELECTRIC STRIKE - CONCEALED WITH TAMPER REISSTANT 24 VAC.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
LD#	LOCKDOWN BUTTON SHALL BE SURFACE MOUNTED UNDERNEATH WORK SURFACE. E.C. SHALL COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE 22-2 WIRE BETWEEN ALARM SWITCH DEVICES AND CONTROL PANEL. SECURITY VENDOR SHALL TEST MONITORING SYSTEM AFTER INSTALLATION. NUMBER INDICATES WHICH DOORS ARE CONTROLLED BY LOCKDOWN BUTTON. REFER TO DOOR SCHEDULE FOR DOORS CONTROLLED BY EACH BUTTON.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
PB	PUSH BUTTON SHALL BE SURFACE MOUNTED UNDERNEATH WORK SURFACE. E.C. SHALL COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE 22-2 WIRE BETWEEN ALARM SWITCH DEVICES AND CONTROL PANEL. SECURITY VENDOR SHALL TEST MONITORING SYSTEM AFTER INSTALLATION.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
REX	REQUEST TO EXIT. PROVIDE A FLUSH MOUNTED SINGLE GANG JUNCTION BOX CENTERED 12" ABOVE DOOR FRAME. CONNECTED TO DOUBLE GANG J-BOX ABOVE THE CEILING.	PROVIDED/INSTALLED BY SECURITY ENGINEERING

INTERCOM SCHEDULE

SYMBOL	DESCRIPTION	MODEL
INT AR	INTERCOM AREA OF RESCUE CALL BUTTON. PROVIDE FLUSH DOUBLE GANG JUNCTION BOX FOR INTERCOM DOOR STATION WITH 3/4" C FROM DEVICE TO JUNCTION BOX TO ABOVE ACCESSIBLE SPACE. MOUNT AT 42" A.F.F.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
INT MAR	INTERCOM AREA OF RESCUE MASTER STATION. INTERNAL SPEAKER AND CALL BUTTON.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
INT CD	INTERCOM DOOR STATION COLOR CAMERA, VANDAL RESISTANT. STAINLESS STEEL - WEATHER RESISTANT FINISH, INTERNAL SPEAKER, AND CALL BUTTON. PROVIDE ELECTRIC DOOR STRIKE AT DOOR STATION LOCATION. PROVIDE FLUSH DOUBLE GANG JUNCTION BOX FOR INTERCOM DOOR STATION WITH 3/4" C FROM DEVICE TO JUNCTION BOX TO ABOVE ACCESSIBLE SPACE. MOUNT AT 42" A.F.F.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
INT M	INTERCOM MASTER STATION. INTERNAL SPEAKER AND CALL BUTTON. PROVIDE ELECTRIC DOOR STRIKE AT DOOR STATION LOCATION.	PROVIDED/INSTALLED BY SECURITY ENGINEERING

MASS NOTIFICATION SCHEDULE

SYMBOL	DESCRIPTION	MODEL
S	HORN SPEAKER INDOOR-OUTDOOR RATED WALL MOUNTED. ALL PURPOSE MOUNTING BRACKET. 30 WATTS AT 70V. ROTATEABLE HORN FLARE, AND MOUNTABLE ELECTRICAL BOX. POWER TAPS AT 70V - 30,15,7.5,3.7, AND 1.8 WATTS.	PROVIDED/INSTALLED BY OWNER AND DATA CABLE INSTALLED BY SECURITY ENGINEERING
AMP	MASS NOTIFICATION AMPLIFIER WALL MOUNTED, TELEPHONE ACCESS MODULE	PROVIDED/INSTALLED BY OWNER AND DATA CABLE INSTALLED BY SECURITY ENGINEERING
S #	MASS NOTIFICATION SPEAKER OR DROP IN CEILING GRID SPEAKER - 8" MAIN CONE. 95HZ TO 20KHZ FREQUENCY RESPONSE, TRANSFORMER, 70V/25V LINE. POWER TAPS OF 4, 2, 1, 1/2, AND 1/4 WATTS. SUBSCRIPT "P" FOR PENDANT TYPE SPEAKERS	PROVIDED/INSTALLED BY OWNER AND DATA CABLE INSTALLED BY SECURITY ENGINEERING

CLOCK SCHEDULE

SYMBOL	DESCRIPTION	MODEL
C	BATTERY TYPE CLOCK	PROVIDED/INSTALLED BY OWNER

CELLULAR SCHEDULE

SYMBOL	DESCRIPTION	MODEL
RF	CELLULAR ENHANCEMENT ANTENNA, CABLING, AND HEAD END TO BE PROVIDED / INSTALLED BY [VERIZON, ATT, AND SPRINT.]	PROVIDED/INSTALLED BY OWNERS INTEGRATOR
334	RADIO ROUGH-IN DEVICE PROVIDE FLUSH DOUBLE GANG JUNCTION BOX WITH 3/4" C FROM DEVICE TO JUNCTION BOX ABOVE ACCESSIBLE SPACE.	PROVIDED/INSTALLED BY OWNERS INTEGRATOR

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Revisions

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