

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

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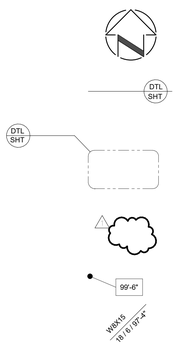
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PROJECT INFORMATION

ADDRESS	10 CLARINDA LN
CITY, STATE ZIP	PENSACOLA, FL 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

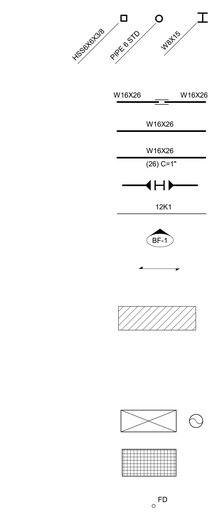
REINFORCED CONCRETE

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	OD
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	
EACH WAY	EW	CONCRETE PIPE	RCP
ELEVATOR	ELEV	REINFORCED, REINFORCING	REINF
EMBEDMENT	EMBED	REQUIRED	REQD
ENGINEER	ENG	REQUIREMENT	REQT
EQUAL	EQ	ROOF DRAIN	RD
EQUIPMENT	EQUIP	ROOF TOP UNIT	RTU
EXHAUST FAN	EXF		
EXISTING	EXIST (E)	SCHEDULE	SCHED
EXPANSION JOINT	EJ	SECTION	SECT
EXTERIOR	EXT	SHEET	SHT
		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**

LOAD BEARING STRUCTURAL 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 BASED ON AN ULTIMATE COMPRESSIVE STRENGTH f'm = 2500 psi.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S.
4. GROUT SHALL CONFORM TO ASTM A476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi. USE COARSE GROUT IN TYPICAL APPLICATION. USE FINE GROUT IN 4" AND 6" CMU WALLS AND IN ANY CELL REINFORCED WITH MORE THAN ONE BAR.
5. REFER TO REINFORCING STEEL NOTES FOR REINFORCEMENT USED IN MASONRY CONSTRUCTION. ALL REINFORCING TO BE GRADE 60. PRIOR TO FABRICATION SUBMIT SHOP DRAWINGS FOR REVIEW, INCLUDING WALL ELEVATIONS SHOWING ALL REINFORCING STEEL.
6. VERTICAL REINFORCING SHALL BE #6 BARS AT A MAXIMUM SPACING OF 40" O.C., UNLESS OTHERWISE NOTED ON DRAWINGS. THE FIRST CELL AT CORNERS AND ENDS OF WALLS SHALL BE REINFORCED WITH 1-#6 BAR AND GROUTED FULL. ON EACH SIDE OF WALL OPENINGS 2-#5 BAR EXTENDING 2'-0" BEYOND CORNERS OF OPENING SHALL BE PLACED. ALL REINFORCED CELLS SHALL BE FILLED SOLIDLY WITH GROUT. REFER TO DETAILS FOR SPECIAL REINFORCEMENT AT SUPPORTS.
7. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
8. REINFORCING STEEL SHALL BE LAPPED 60 BAR DIAMETERS WHERE SPLICED AND SHALL BE WIRED TOGETHER.
9. HORIZONTAL WALL REINFORCING SHALL BE EXTRA HEAVY HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 12" CMU AND STANDARD HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 8" CMU. IN LIEU OF HOHMANN & BARNARD COMPANY REINFORCEMENT THE CONTRACTOR MAY PROVIDE HORIZONTAL BOND BEAMS LOCATED 48" O.C. VERTICALLY AND REINFORCED WITH 2-#5 CONTINUOUS BARS.
10. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP, BOTTOM, AND AT INTERVALS NOT FURTHER APART THAN 192 BAR DIAMETERS BY WALL-BRAC VERTICAL STEEL POSITIONER AS MANUFACTURED BY W.C.R. FABRICATORS, OR AN EQUIVALENT POSITIONER.
11. PROVIDE CONTINUOUS CMU BOND BEAMS (8" MIN. DEPTH) REINFORCED WITH 2-#5 CONTINUOUS BARS AT TOP OF PARAPETS AND AT ROOF FRAMING ELEVATION FOR FULL LENGTH OF ALL WALLS. WHERE BOND BEAMS REQUIRE SLOPES, PROVIDE 16" DEEP BOND BEAM AND CUT TO PROVIDE AN 8" MINIMUM DEPTH. CONTINUE HORIZONTAL REINFORCEMENT THROUGH MASONRY COLUMNS AND PILASTERS.
12. PROVIDE 2-#5 CORNER BARS (2'-6"x2'-6"), LAP WITH CONTINUOUS BARS IN ALL BOND BEAMS AT CORNERS AND WALL INTERSECTIONS.
13. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS WHERE SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, AND NOT TO EXCEED 30 FEET O.C. PROVIDE MATCHING CONTROL JOINTS IN FINISH MATERIALS (i.e. BRICK, STUCCO, etc.). VERTICAL CELLS ON EACH SIDE OF CONTROL JOINTS SHALL BE REINFORCED AND GROUTED TO MATCH THE TYPICAL WALL REINFORCEMENT.
14. AT WALL CONTROL JOINTS, CONTINUE BOND BEAM REINFORCEMENT THROUGH JOINT AND DISCONTINUE ALL OTHER HORIZONTAL WALL REINFORCING AT JOINT.
15. ALL UNITS SHALL BE LAID WITH FULL MORTAR BEDS ON THE FACE SHELLS. ALL HEAD JOINTS SHALL BE FILLED SOLIDLY WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. UNLESS THE WALL IS TO BE POURED SOLID, END WALLS OF CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULLBEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT.
16. ALL DOWELS, ANCHOR BOLTS, AND HEADED STUDS SHALL BE SET IN SOLID GROUTED CELLS.
17. GROUT ALL CELLS SOLID BELOW GRADE.

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

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 +2 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.

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
   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
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:

   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 AND CAST IN PLACE WALLS 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.

PRECAST CONCRETE NOTES

1. THE DESIGN AND ERECTION OF PRECAST CONCRETE COMPONENTS SHALL BE THE RESPONSIBILITY OF THE PRECAST FABRICATOR. THE FABRICATOR'S SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT, AND SHALL BE IN ACCORDANCE WITH ACI 318, AND PCI MNL 120 - PCI DESIGN HANDBOOK.
2. THE FABRICATOR SHALL DESIGN ALL PRECAST UNITS TO SUPPORT THE LIVE AND DEAD LOADS INDICATED ON PLANS AND DETAILS. REFER TO PLANS AND DETAILS FOR AREAS REQUIRING THICKER TOPPINGS. DESIGN ALL UNITS SUCH THAT NO SHORING WILL BE REQUIRED DURING CONSTRUCTION. LIMIT DEFLECTIONS TO THE STANDARDS SET FORTH IN ACI 318 FOR STRUCTURES SUPPORTING ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS.
3. THE FABRICATOR SHALL USE THE FOLLOWING WEIGHTS OF BUILDING MATERIALS TO DETERMINE ACTUAL LOADING CONDITIONS:

NORMAL WEIGHT CONCRETE	150 pcf
LIGHTWEIGHT CONCRETE	120 pcf
4. IN ADDITION TO THE LIVE AND DEAD LOADS INDICATED ON PLANS AND DETAILS, PRECAST COMPONENTS SHALL BE DESIGNED TO SUPPORT A 15 psf SUPERIMPOSED DEAD LOAD + MECHANICAL EQUIPMENT LOADING SHOWN ON PLAN AND ROOF FALL PROTECTION SYSTEM.
5. NO ROOF LIVE LOAD REDUCTION SHALL BE ALLOWED.
6. TYPICAL ROOF UNITS SHALL BE 8" DEEP X 24" OR 48" WIDE SEE PLAN. UNITS SHALL BE FABRICATED FROM NORMAL WEIGHT CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH = 5000 psi AND A RELEASE STRENGTH OF 3500 psi.
7. UNITS HAVE BEEN LAID OUT USING THE 24" OR 48 " WIDTH AS TYPICAL. PROVIDE SPECIAL WIDTH UNITS AND FILLERS AS REQUIRED TO COMPLETE THE FLOOR AND ROOF SYSTEM. ALTERNATE UNIT WIDTHS WILL BE CONSIDERED PROVIDED THE CONTRACTOR COORDINATES REVISIONS TO THE SYSTEM WITH THE DESIGN TEAM AND ALL APPROPRIATE SUB CONTRACTORS.
8. FABRICATOR SHALL DESIGN UNITS TO ACCOMMODATE OPENINGS SHOWN ON STRUCTURAL DRAWINGS AND SHALL REFER TO MECHANICAL, ELECTRICAL, ETC. FOR ADDITIONAL OPENINGS IN UNITS. FABRICATOR MAY PROPOSE STEEL HEADERS WHERE APPROPRIATE, BUT SHALL COORDINATE THEM WITH ARCHITECT.
9. ALL TEMPORARY BRACING AND SHORING DURING ERECTION OF PRECAST ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL BRACING IS TO REMAIN IN PLACE UNTIL THE FLOOR AND ROOF DECKS HAVE ATTAINED DESIGN STRENGTH AND DIAPHRAGM CONNECTIONS HAVE BEEN COMPLETED.
10. UNLESS NOTE OTHERWISE, ALL PRECAST/PRESTRESSED CONCRETE SHALL BE SUPPLIED BY A "PCI CERTIFIED PLANT"
11. ALL PRECAST / PRESTRESSED MEMBERS SHALL BE OF SIZE, SHAPE, AND SPAN INDICATED ON THE DRAWINGS. ALL UNITS SHALL BE CAPABLE OF SUPPORTING THE SUPERIMPOSED DEAD AND LIVE LOADS AS SHOWN ON THE DOCUMENTS, PLUE THE SELFWEIGHT OF THE PRECAST MEMBERS.
12. MANUFACTURER SHALL SUBMIT COMPLETE DESIGN CALCULATIONS FOR RECORD THAT ARE PREPARED B A LICENSED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA FOR ALL PRECAST / PRESTRESSED CONCRETE MEMBERS.
13. FIELD CUT HOLES FOR OPENINGS THAT DO NOT DISTURB PRESTRESSING STRANDS IN ACCORDANCE WITH THE PRESTRESSED UNIT MANUFACTURER'S INSTRUCTIONS. VERIFY SIZE AND LOCATION OF HOLES AND SLEEVES WITH ALL APPLICABLE TRADES.
14. PRECAST MANUFACTURER SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS INCLUDING BUT NOT LIMITED TO OPENING SIZE AND LOCATIONS.

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. PRECAST CONCRETE PLANKS (SIGNED AND SEALED CALCULATIONS AND DRAWINGS)

   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. MASONRY WALL REINFORCING

   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 CONSTRUC

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 f'_{AAC}, 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 f'_{AAC} FOR EVERY 5,000 SQUARE FEET	NO ACTION	TMS 602 ART 1.4B		
5. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS 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		
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X		TMS 602 ART 2.4 B & 2.4M & N		
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS		X		TMS 602 ART 2.4A, D, E, F, G, H, I, J, K & L		
d. PRESTRESSING TECHNIQUE		X		TMS 602 ART 3.6B		
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[b]	X[c]		TMS ART 2.1 DC.1		
f. 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 PRESTRESSING TENDONS AND ANCHORAGES		X		TMS 402 SEC 10.8 & 10.9 TMS 602 ART 3.6		
C. 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		
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		TMS 602 ART 2.6B & 2.4M.1.b		
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 3.3G		
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. TYPE, SIZE, AND LOCATION OF VENEER TIES & MOVEMENT JOINTS		X		TMS 402 SEC. 13.3 TMS 602 ART 3.4D		
f. WELDING OF REINFORCEMENT	X			TMS 402 SEC. 6.1.7.3		
g. 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		
h. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			TMS 602 ART 3.6B		
i. PLACEMENT OF GROUT	X			TMS 602 ART 3.5		
i. PLACEMENT OF PRESTRESSING GROUT FOR BONDED TENDONS	X			TMS 602 3.6C		
J. 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, B.2.b.3, B.2.c.3, B.3 & 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.

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 FOR 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	FBC 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	FBC 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 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	FBC 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. INSPECT PRESTRESSED CONCRETE FOR:						
a. APPLICATION OF PRESTRESSING FORCES	X			ACI 318: Ch. 26. 10		
b. GROUTING OF BONDED PRESTRESSING TENDONS	X					
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X		ACI 318: Ch. 26.9		
11. INSPECTION INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X		ACI 318: Ch. 26.13.13 ACI 550.5		
12. 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	-	031000, 3.05
13. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318:26.10.1(b)	-	033000, 3.03; 033816, 3.04

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 DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
   g. THE SPECIAL INSPECTOR'S FINAL REPORT SHALL IDENTIFY THE FOLLOWING:
      1) THE MATERIALS, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING BY THE BUILDING OFFICIAL OR BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK.
      2) THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.
      3) THE TYPE AND EXTENT OF EACH TEST.
      4) ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION OR TESTING FOR SEISMIC OR WIND RESISTANCE AS SPECIFIED IN SECTIONS 1705.11, 1705.12 AND 1705.13.
         i. WHERE SECTION 1705.12 OR 1705.13 SPECIFIES SPECIAL INSPECTION, TESTING OR QUALIFICATION FOR SEISMIC RESISTANCE, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE DESIGNATED SEISMIC SYSTEMS AND SEISMIC FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS OR TESTS.
         ii. WHERE SECTION 1705.11 SPECIFIES SPECIAL INSPECTION FOR WIND REQUIREMENTS, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE MAIN WINDFORCE-RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTIONS. THE REPORT SHALL BE SIGNED BY THE SPECIAL INSPECTOR
5. FOR EACH TYPE OF SPECIAL INSPECTION, IDENTIFICATION AS TO WHETHER IT WILL BE CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION OR PERFORMED IN ACCORDANCE WITH THE NOTATION USED IN THE REFERENCED STANDARD WHERE THE INSPECTIONS ARE DEFINED.
6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON QUANTITY, FREQUENCY AND DETAILED INFORMATION ON TESTING, INSPECTION AND REPORTING.
7. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE SPECIAL INSPECTION REQUIREMENTS WITH ALL INVOLVED PARTIES.
8. THE SPECIAL INSPECTIONS PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.
9. THE CONTRACTOR SHALL PAY FOR ENGINEERING SERVICES REQUIRED TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

PERMIT'S APPLICATION RESPONSIBILITIES

1. THE PERMIT APPLICANT SHALL SUBMIT THIS SHEET AS THE STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AS A CONDITION FOR PERMIT ISSUANCE.
2. THE PERMIT APPLICANT SHALL LIST BELOW THE INDIVIDUALS, APPROVED AGENCIES OR FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
   a. SUBGRADE PREPARATION, DRAINAGE COURSES, WALL AND GRADE BEAM BACKFILL, DRILLED PIERS, PILES, FOOTINGS AND OTHER GEOTECHNICAL RELATED ELEMENTS. _____ Name or Firm Name
   b. CONCRETE _____ Name or Firm Name
   c. STRUCTURAL STEEL, STEEL JOISTS AND JOIST GIRDERS,METAL DECK AND SPRAYED ON FIREPROOFING _____ Name or Firm Name
   d. CMU _____ Name or Firm Name
   e. LIGHT GAUGE METAL FRAMING _____ Name or Firm Name
   f. WOOD _____ Name or Firm Name
3. THE PERMIT APPLICANT SHALL OBTAIN ALL NECESSARY SIGNATURES INCLUDING CONTRACTOR ACKNOWLEDGEMENT OF SPECIAL INSPECTION REQUIREMENTS.

CONTRACTOR'S ACKNOWLEDGEMENT OF RESPONSIBILITY FOR IMPLEMENTATION OF THE SPECIAL INSPECTIONS PLAN

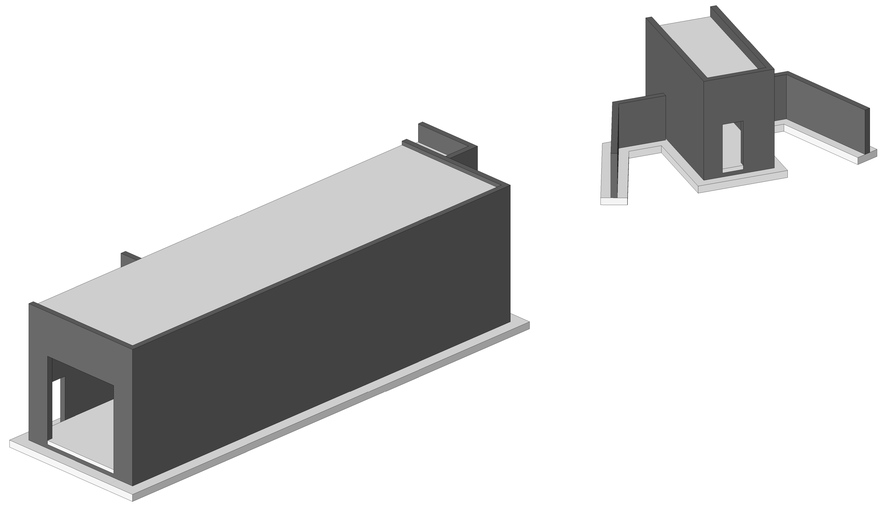
1. AS PART OF THE SUBMITTAL FOR BUILDING PERMIT, THE GENERAL CONTRACTOR SHALL COMPLETE THE FOLLOWING FORM AS A WRITTEN STATEMENT OF RESPONSIBILITY.
   a. AS THE GENERAL CONTRACTOR, WE ARE AWARE OF THE REQUIREMENTS FOR SPECIAL INSPECTIONS AS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
   b. AS GENERAL CONTRACTOR, WE ACKNOWLEDGE THAT CONTROL MUST BE EXERCISED BY OUR ORGANIZATION TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL. WE ACKNOWLEDGE OUR RESPONSIBILITY TO DISTRIBUTE UP TO DATE DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, RESPONSES TO REQUESTS FOR INFORMATION, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS, SHOP DRAWINGS, ETC., TO ALL SUBCONTRACTORS AND TO THE SPECIAL INSPECTORS. WE ACKNOWLEDGE OUR RESPONSIBILITY FOR CALLING THE APPROPRIATE SPECIAL INSPECTORS AT APPROPRIATE TIMES TO FULFILL THE REQUIREMENTS IN THE STATEMENT OF SPECIAL INSPECTIONS.
   c. AS GENERAL CONTRACTOR, WE HAVE DEVELOPED PLANS AND PROCEDURES FOR EXERCISING CONTROL WITHIN OUR ORGANIZATION, FOR THE METHOD AND FREQUENCY OF REPORTING AND FOR THE DISTRIBUTION OF THE REPORTS.
   d. THE FOLLOWING QUALIFIED INDIVIDUAL(S) WITHIN OUR FIRM WILL BE RESPONSIBLE FOR CONTROLLING THE PLAN, PROCEDURES AND PROCESS OF THE SPECIAL INSPECTIONS PLAN:

Name	Position within Firm

2. THE GENERAL CONTRACTOR ACKNOWLEDGES OUR RESPONSIBILITIES AS STATED ABOVE.

Name _____ Position within Firm _____ Date _____

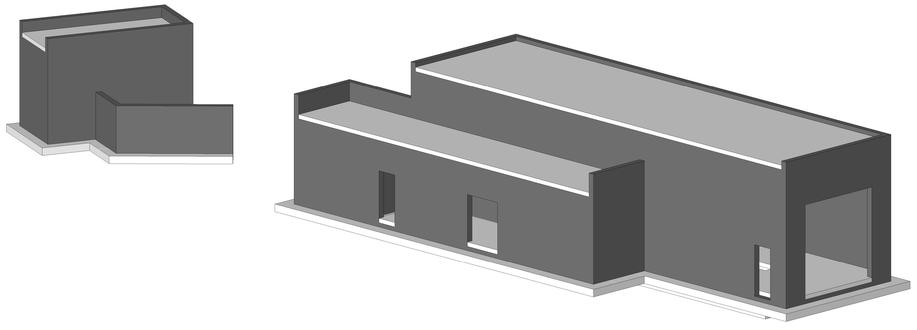
Firm Name _____



01 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.



02 ISOMETRIC VIEW

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
04 - BUS WASH
10 CLARINDA LN
PENSACOLA, FL 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, STE 300
DALLAS, TX 75243
P - 214.739.8100

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

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL EXPY, STE 300
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P - 214.739.8100

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

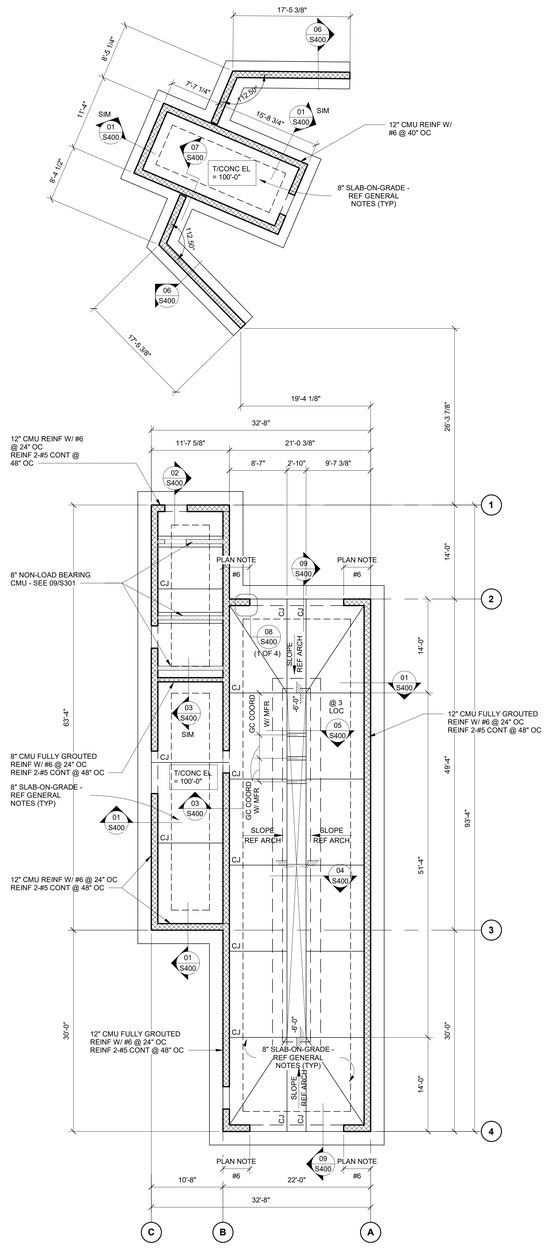
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

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

ISOMETRIC VIEWS **S003**



N

01 FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO LEVEL 1 FINISHED FLOOR EL = 100'-0" (86.75'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S000 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. SEE SHEET S300 FOR TYPICAL SPREAD FOOTING DETAIL.
4. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
5. XXX'-X" - DENOTES TOP OF SLAB ELEVATION.
6. 12" CMU WALL SHALL BE REINFORCED WITH #5 @ 8" OC EACH FACE W/ 2- #5 CONT HORIZONTAL @ 48" OC.
7. CONTRACTOR SHALL VERIFY / COORDINATE PIT DIMENSIONS AND DEPTH WITH BUS WASH MANUFACTURE.
8. GC SHALL APPLY SEALANT TO ALL CONTROL JOINT LOCATIONS.

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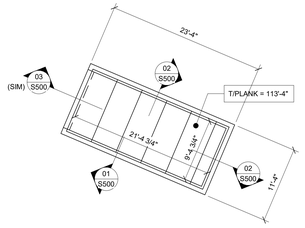
Discipline: Owner Consultant
QSC SERVICES, LLC
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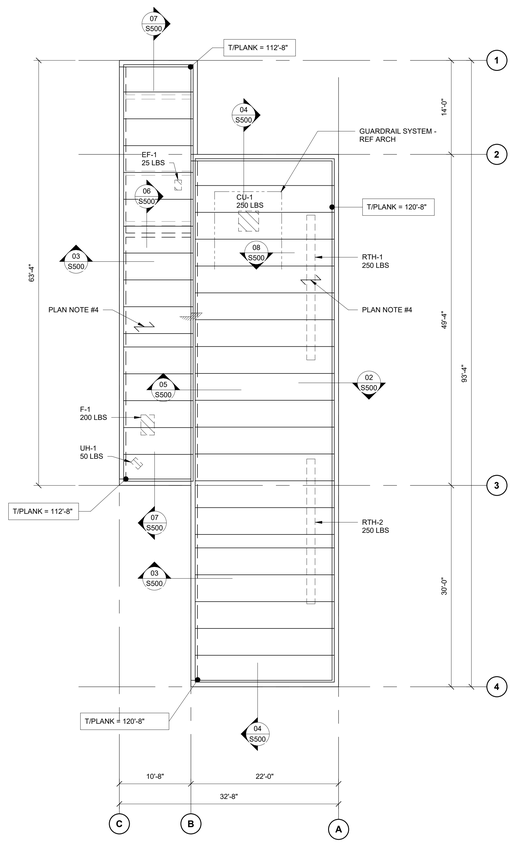
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

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DATE 10/22/2026
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FOUNDATION FRAMING PLAN **S110**





N

01 T.O. WASH BAY ROOF

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO LEVEL 1 FINISHED FLOOR EL = 100'-0" (86.73'). 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. 8" HOLLOW CORE PLANK SPAN DIRECTION. FOR HOLLOW CORE PLAN CONNX DETAILS S500 FOR DETAILS.

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ROOF FRAMING PLANS **S200**

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

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

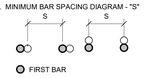
GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)					
			f'c = 3 KSI	f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8.5 KSI
60	#3	1.750	22	19	17	16	14	13
	#4	1.875	29	25	23	21	19	17
	#5	2.000	36	31	28	26	24	22
	#6	2.250	43	37	34	31	28	26
	#7	2.625	94	81	73	67	62	56
	#8	3.000	107	93	83	76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

FOOTING/MAT REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

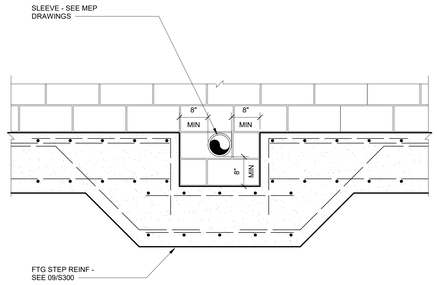
GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)											
			f'c = 3 KSI		f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8.5 KSI	
			TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
60	#4	1.875	38	29	33	25	29	23	27	21	25	19	22	17
	#5	2.000	47	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

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"

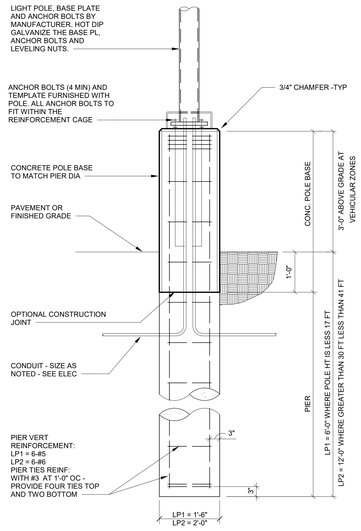


4. WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE, MINIMUM SPACING AND/OR f'c, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED REINFORCEMENT. 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.

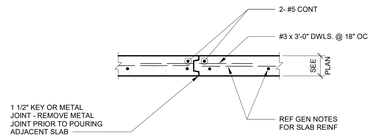


NOTES:
1. DO NOT CUT VERTICAL REINFORCING. IF SLEEVE IS INSTALLED AFTER CMU WALL IS IN PLACE, GC SHALL SCAN CMU WALL TO LOCATE VERTICAL BAR TO AVOID CUTTING REINFORCING.

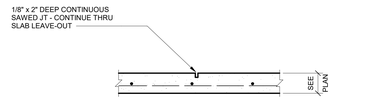
06 **TYPICAL FOOTING STEP AT PLUMBING LINE**



07 LIGHT POLE BASE DETAIL

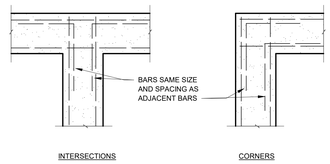


01 **TYPICAL SLAB ON GRADE CONSTRUCTION JOINT**

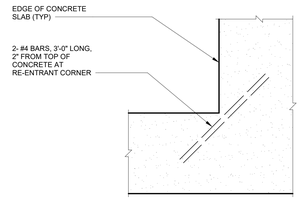


NOTE:
JOINTS MUST BE CUT WITHIN 8 HRS AFTER POUR

02 **TYPICAL SLAB ON GRADE SAWED JOINT**

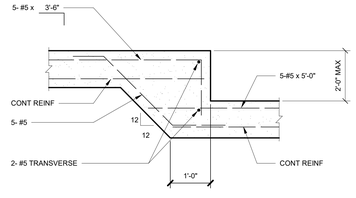


03 **TYPICAL CORNER BARS**



TYPICAL RE-ENTRANT CORNER REINFORCING

04



05 **TYPICAL STEP IN FOOTING**

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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P - 515.259.5957

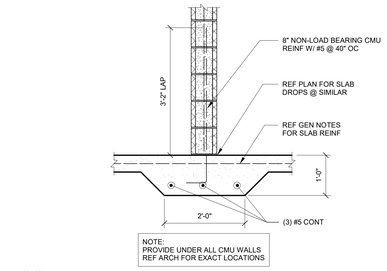
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

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

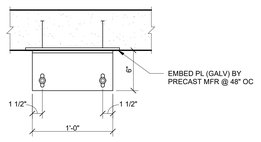
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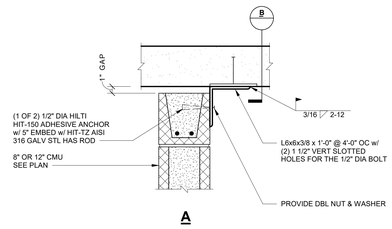
TYPICAL DETAILS - FOUNDATION DETAILS **S300**



09 **THICKENED SLAB AT CMU WALLS**

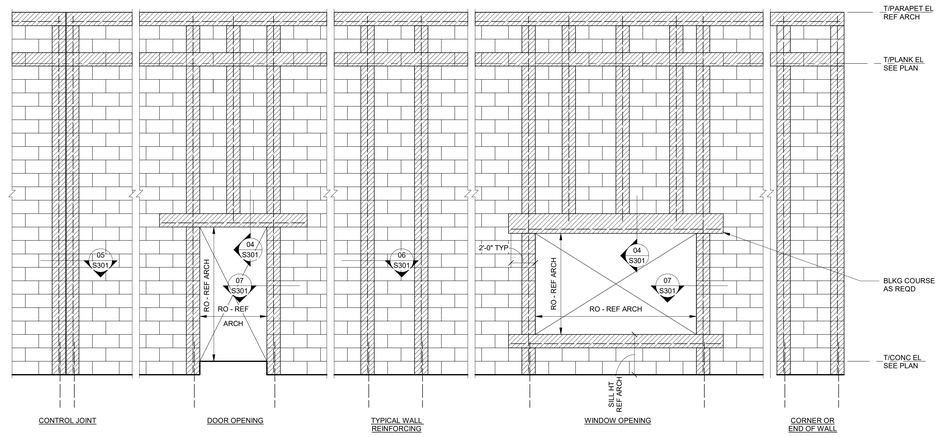


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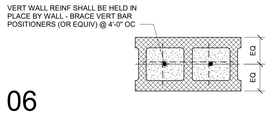
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10 **TOP OF MASONRY WALL TO CONCRETE CONNECTION**

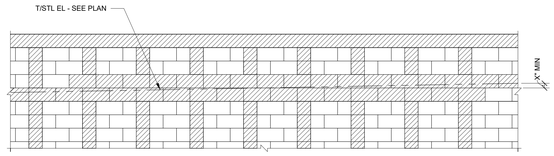


01 **TYPICAL CMU WALL ELEVATION**

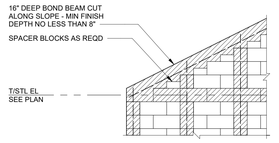
NOTE:
1. ▨ - DENOTES CELLS TO BE GROUTED SOLID



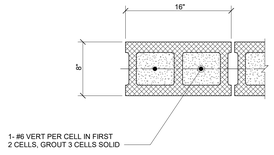
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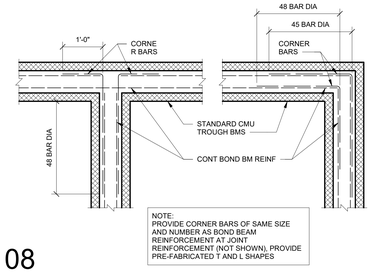
02 **BOND BEAM AT SLOPED ROOF**



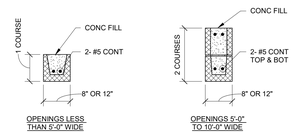
03 **BOND BEAM AT RIDGE**



07 **DETAIL "B" AT DOOR JAMB**



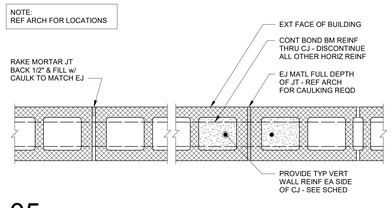
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NOTE:
PROVIDE BLOCK LINTELS FOR ALL OPENINGS IN INTERIOR BLOCK PARTITIONS AND IN EXTERIOR BLOCK WALLS FOR WHICH STEEL LINTELS ARE NOT SCHEDULED SEE ARCHITECTURAL FOR SIZE AND LOCATION OF OPENING
PROVIDE 8" MINIMUM BEARING EACH END

TYPICAL CMU BLOCK LINTELS

04



05 **BLOCK REVEAL** **BLOCK CONTROL JOINT**

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 BY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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PENSACOLA, FL 32505

Architect of Record:
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DALLAS, TX 75243
P - 214.739.8100

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

Discipline:
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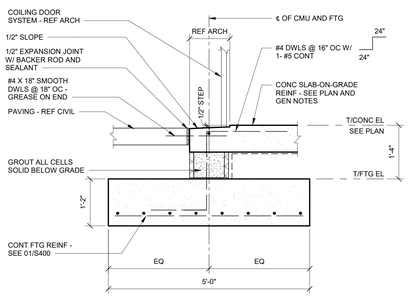
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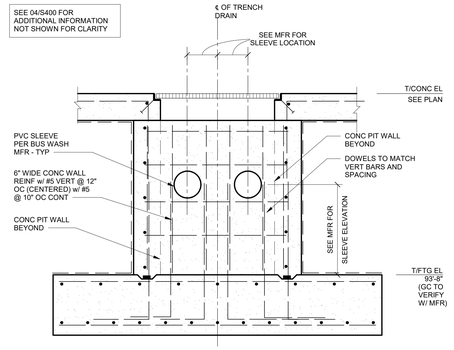
Revisions

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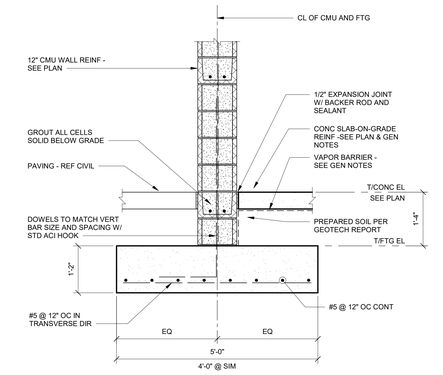
TYPICAL DETAILS - CMU WALLS **S301**



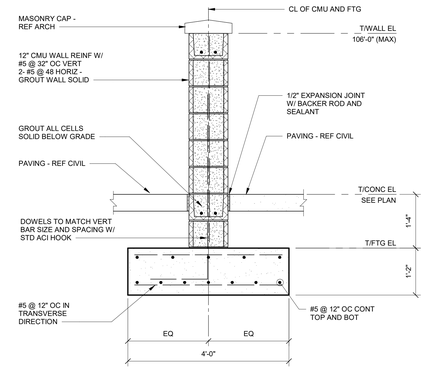
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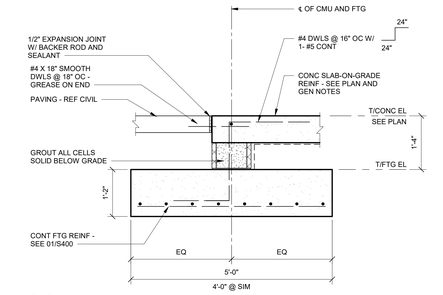
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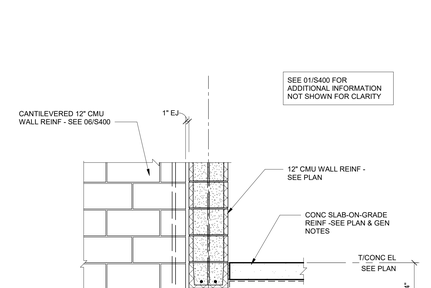
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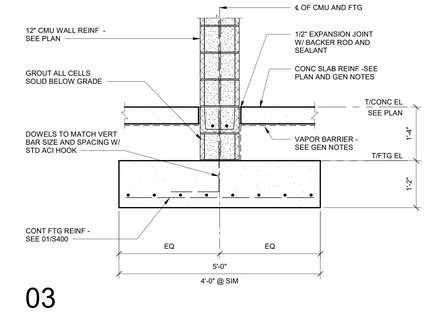
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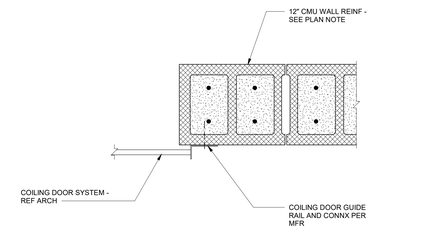
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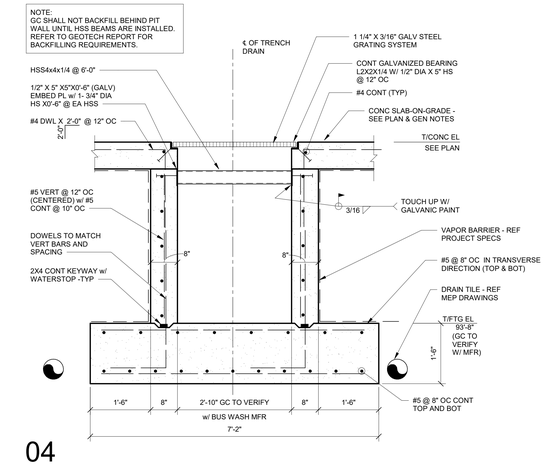
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03



08



04

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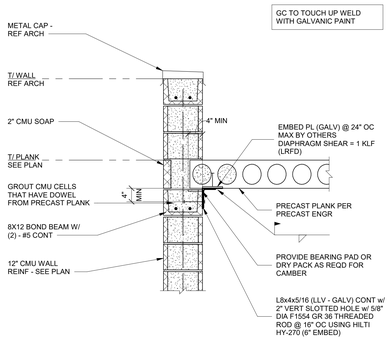
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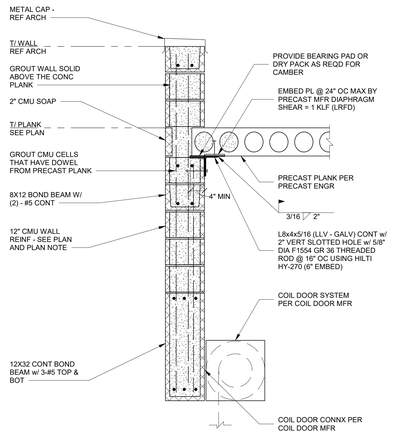
Revisions

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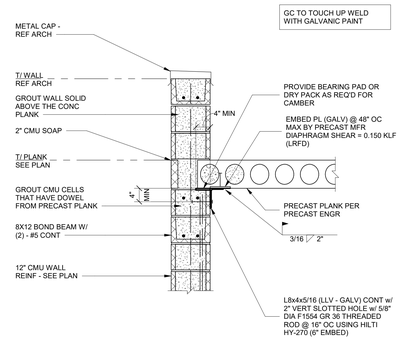
FOUNDATION DETAILS **S400**



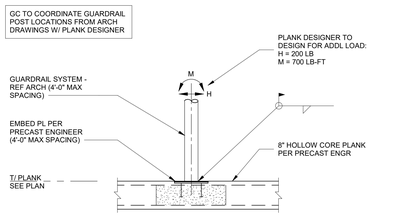
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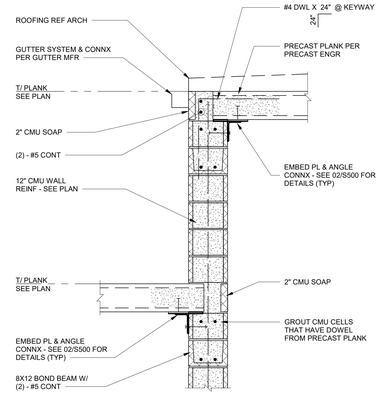
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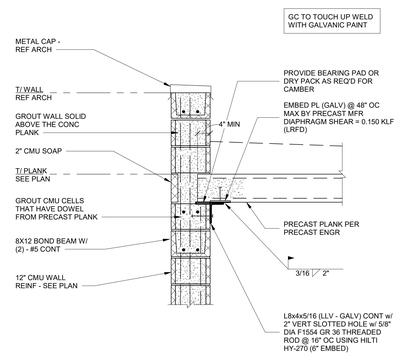
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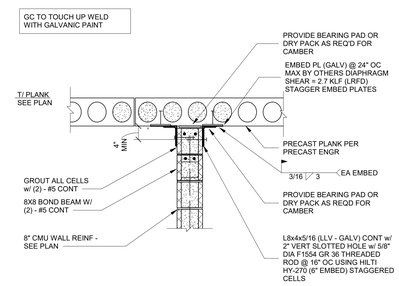
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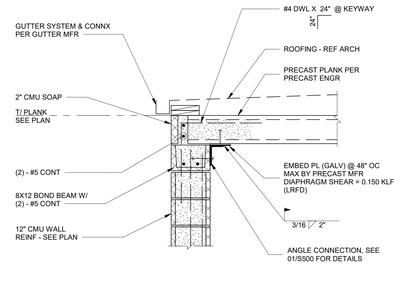
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02



06



03

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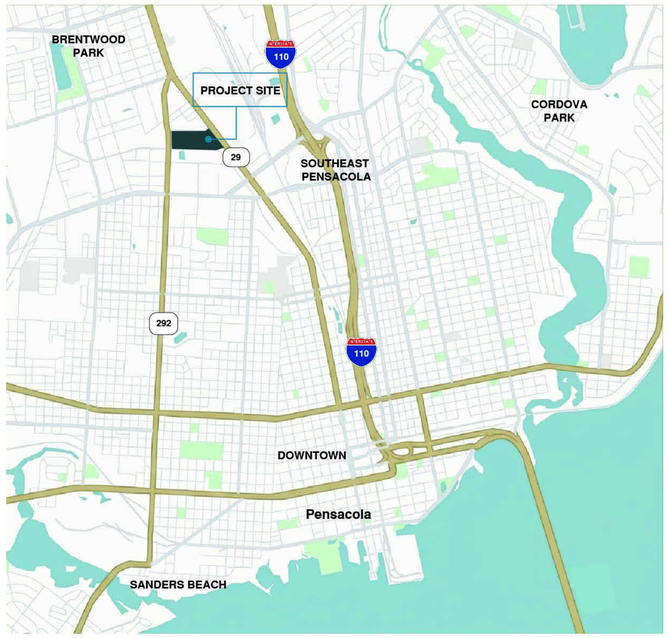
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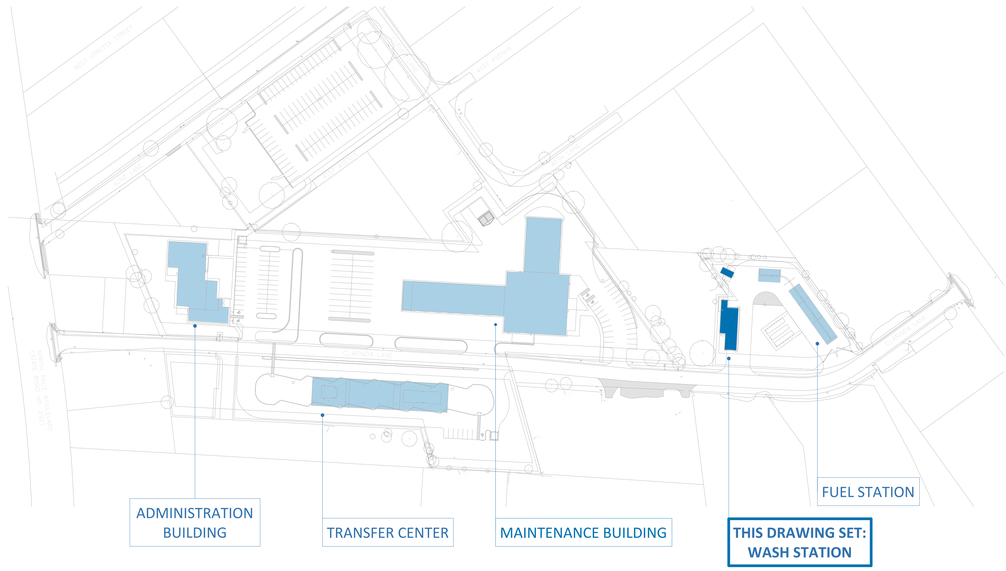
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Revisions

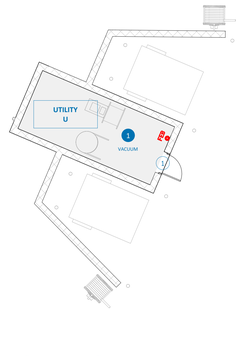
PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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FRAMING DETAILS S500





SITE LOCATION PLAN



PROJECT DATA

PROJECT DESCRIPTION:
NEW CONSTRUCTION BUILDING HOUSING BUS WASH EQUIPMENT, CASH VAULT AND TOILET ROOM. TOILET ROOM FOR STAFF ONLY.

NEW CONSTRUCTION BUILDING HOUSING A VACUUM STATION.

SHARES SITE WITH FUEL STATION. SEE FUEL STATION DRAWING SET UNDER SEPARATE COVER FOR MORE INFORMATION.

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:

VACUUM BUILDING:	U UTILITY
CASH VAULT (UNOCCUPIED):	B BUSINESS ACCESSORY OCCUPANCY
BUS WASH:	U UTILITY

CONSTRUCTION CLASSIFICATION: TYPE IIB - NONCOMBUSTIBLE, UNPROTECTED

FIRE SUPPRESSION SYSTEM: NONE

FIRE ALARM SYSTEM: YES

NUMBER OF FLOORS: 1

	ACTUAL	ALLOWABLE
HEIGHT ABOVE GRADE PLANE:	25'	55'
STORIES ABOVE GRADE PLANE:	1	2

AREAS OF FLOORS:

	ACTUAL	ALLOWABLE
VACUUM		
BUS WASH	175	8,500
	2,450	8,500

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)

CORRIDOR FIRE RATING: 0 HOURS

MINIMUM NUMBER OF PLUMBING FIXTURES

	WATER CLOSETS		LAVATORIES				BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE	UNISEX				
					WC	LAVS			
UTILITY - U									
OCCUPANTS:					23				
PROVIDED:	0	0	0	0	1	1	0	NOT PROVIDED DUE TO TRANSIENT ONLY, NO OCCUPANCY	1
REQUIRED:	0	0	0	0	1	1	0	1	1

1 FIRST FLOOR CODE PLAN

1/8" = 1'-0"

SHELL ABBREVIATIONS

GENERAL

A/C	Air Conditioning
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
T	Tread
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
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

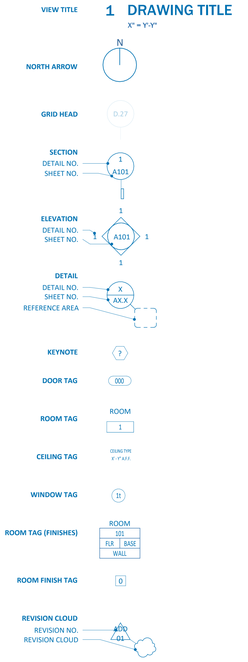
OPENINGS

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



USE GROUP CLASSIFICATION LEGEND

B BUSINESS ACCESSORY OCCUPANCY

U UTILITY

LIFE SAFETY LEGEND



(XXX) OCCUPANTS

(XXX) EXITING

EXIT

FEB = FIRE EXTINGUISHED BRACKET

B = BELL SOUNDER

FAA = FAA FIRE ALARM ANNUNCIATOR

PATH OF TRAVEL

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P - 214.739.8100

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HODGSON DOUGLAS LANDSCAPE ARCHITECTS
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DALLAS, TX 75243
P - 214.749.0333

Discipline:
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DALLAS, TX 75243
P - 214.739.8100

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

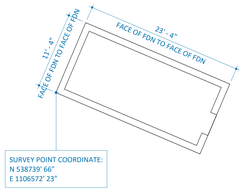
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

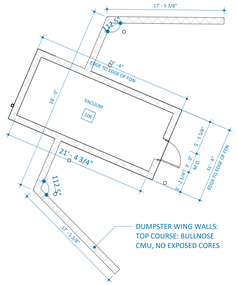
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

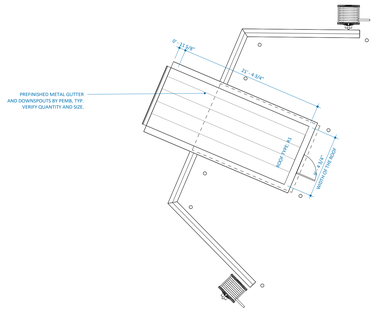
Revisions

PROJECT NO.	2613
STATUS	BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
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SITE LOCATION PLAN, CODE PLAN, ABBREVIATIONS, AND SYMBOLS LEGEND G000







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

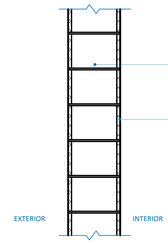
EXTERIOR WALL TYPE (WT) ASSEMBLIES



WT1 - DARK



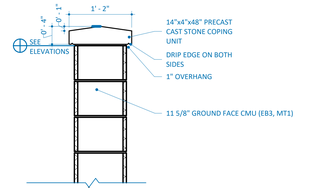
WT2 - LIGHT



WT1 - DARK
WT2 - LIGHT

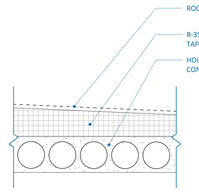


WT3 - LIGHT

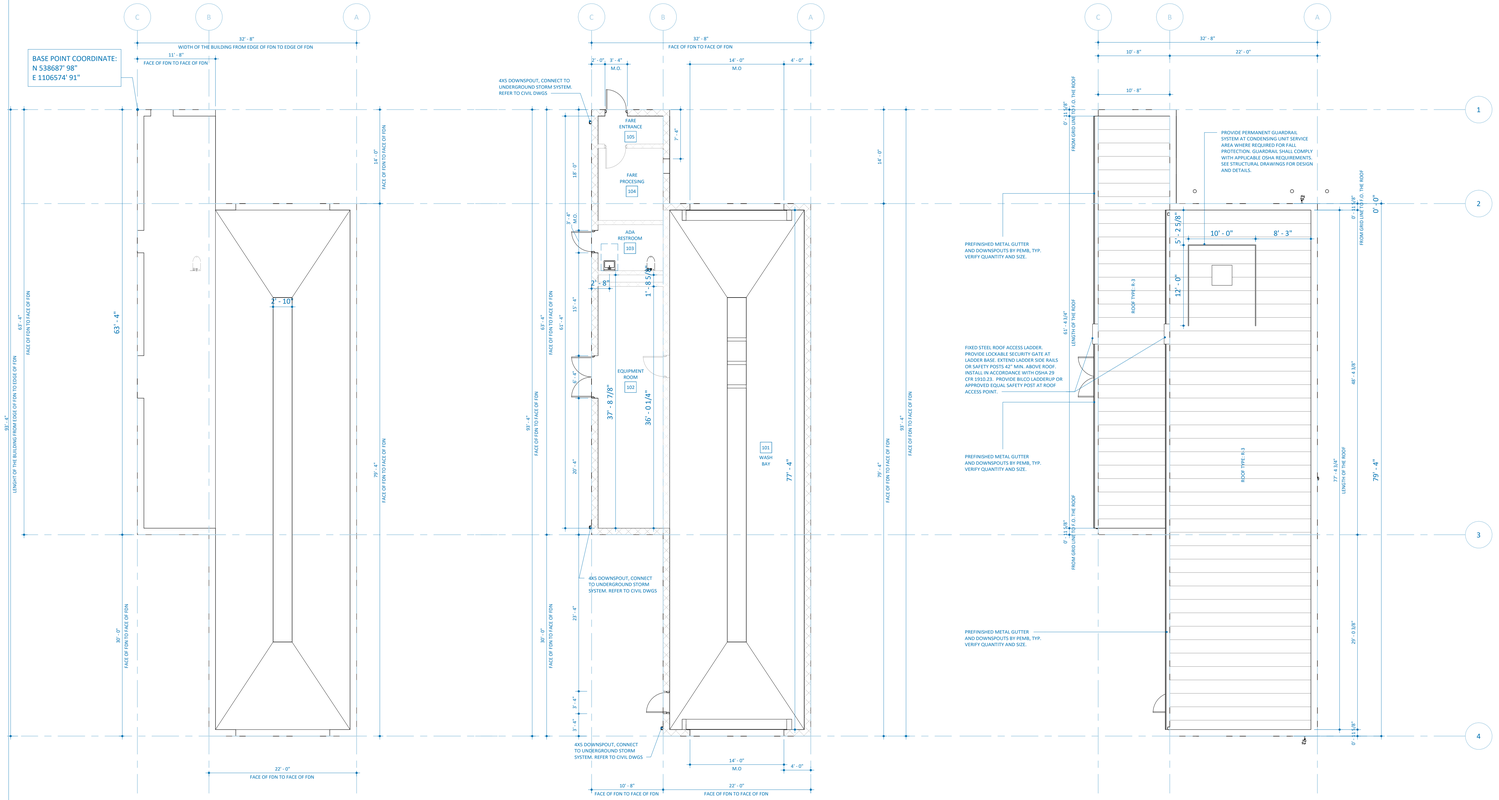


WT3





R1



1 FIRST FLOOR LAYOUT PLAN

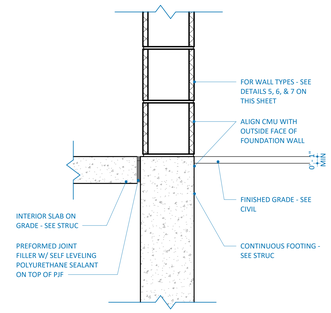
1/8" = 1'-0"

2 FIRST FLOOR DIMENSIONS AND WALL TYPE PLAN

1/8" = 1'-0"

4 ROOF PLAN

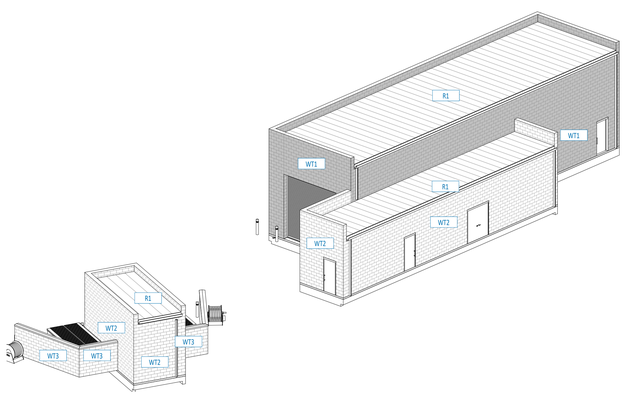
1/8" = 1'-0"



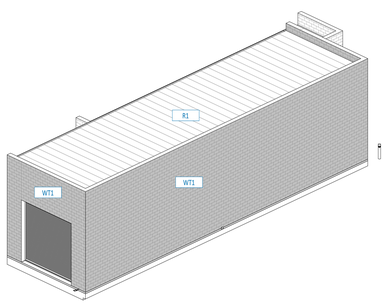
3 TYP FOUNDATION DETAIL

1 1/2" = 1'-0"

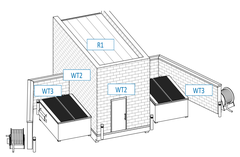
PROVIDE UNDER SLAB AT VAPOR BARRIER

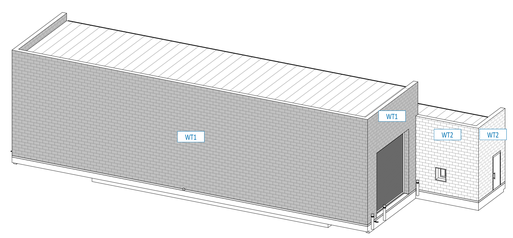


5 3D VIEW, ROOF AND EXTERIOR WALL ASSEMBLIES

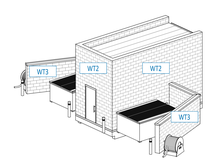


6 3D VIEW, ROOF AND EXTERIOR WALL ASSEMBLIES





7 3D VIEW, ROOF AND EXTERIOR WALL ASSEMBLIES



ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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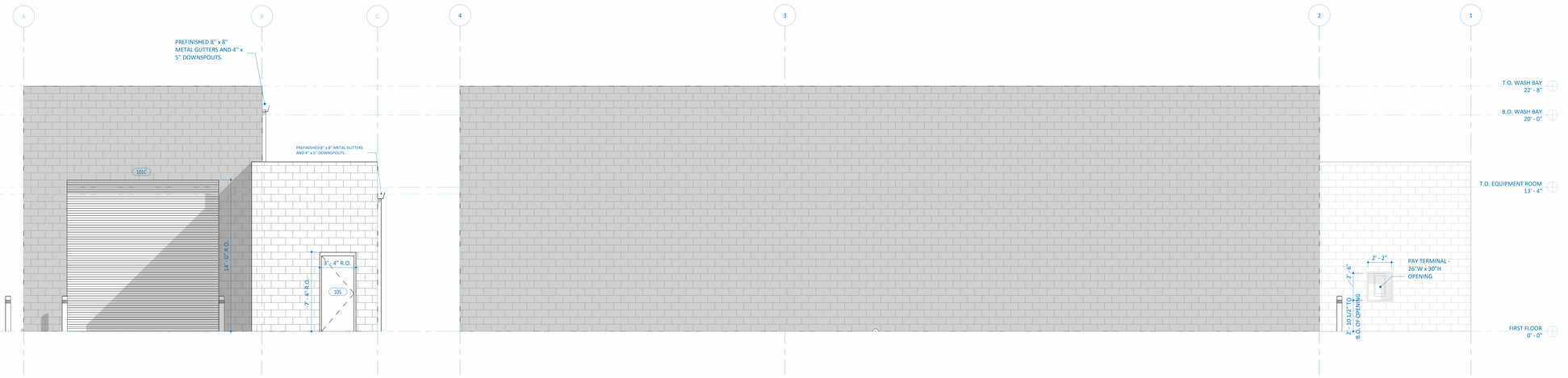
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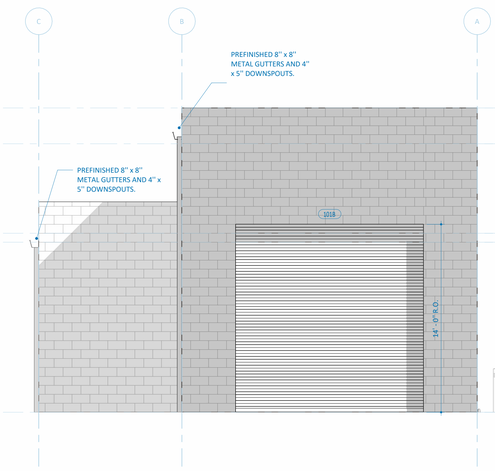
PROJECT NO. 2613
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LAYOUT PLAN, 3D VIEWS AND WALL / ROOF ASSEMBLIES **X001**



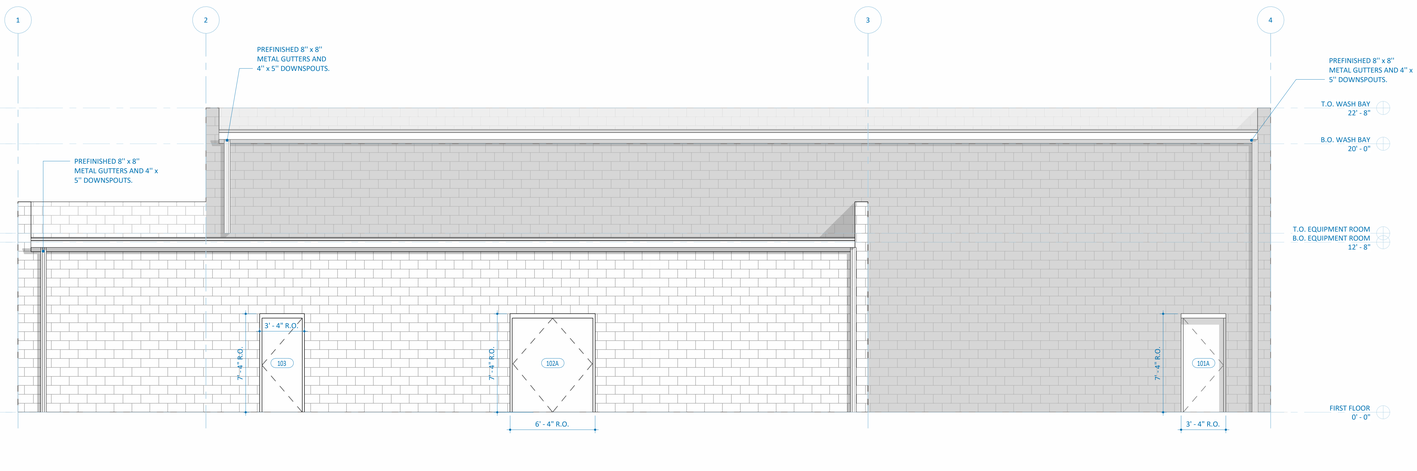
1 WASH BLDG NORTH ELEVATION

1/4" = 1'-0"



2 WASH BLDG EAST ELEVATION

1/4" = 1'-0"

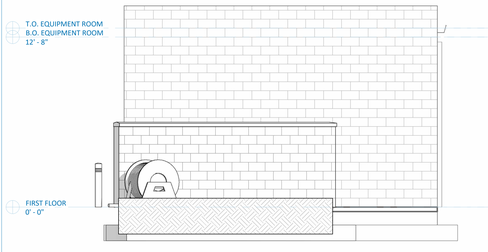


3 WASH BLDG SOUTH ELEVATION

1/4" = 1'-0"

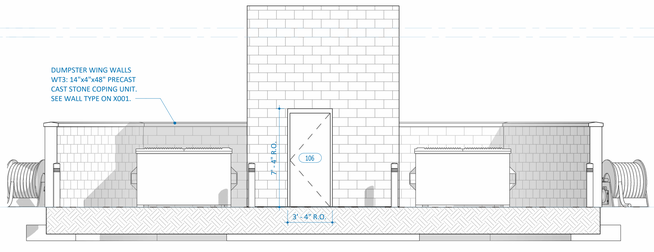
4 WASH BLDG WEST ELEVATION

1/4" = 1'-0"



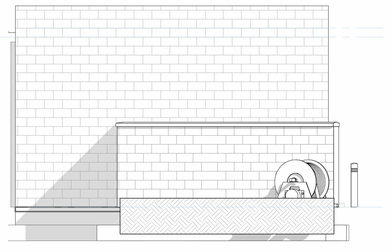
5 DUMPSTER NORTH ELEVATION

1/4" = 1'-0"



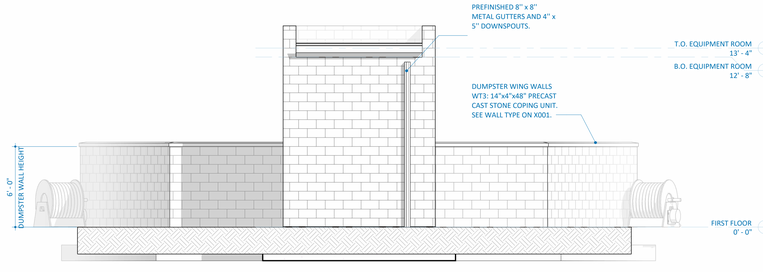
6 DUMPSTER EAST ELEVATION

1/4" = 1'-0"



7 DUMPSTER SOUTH ELEVATION

1/4" = 1'-0"

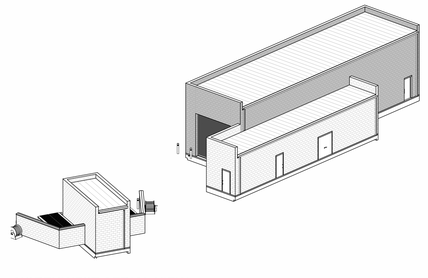


8 DUMPSTER WEST ELEVATION

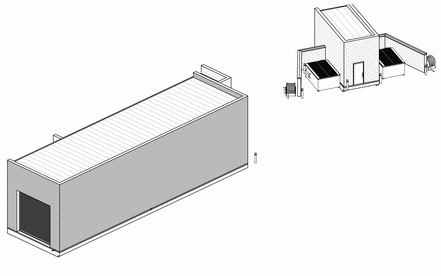
1/4" = 1'-0"

GENERAL ELEVATION NOTES

- SEE X001 FOR EXTERIOR WALL ASSEMBLIES & LAYOUT
- SEE SHEET A900 FOR DOOR SCHEDULE, ELEVATIONS & DETAILS
- SEE SHEET X800 FOR DETAILS



NORTHWEST AERIAL VIEW



SOUTHEAST AERIAL VIEW

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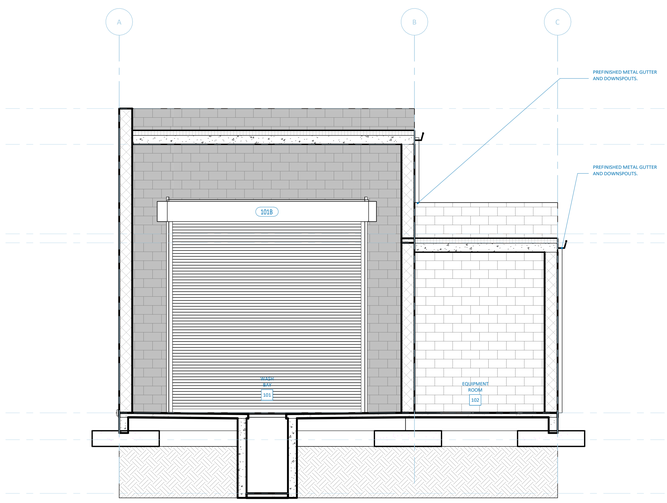
Discipline: Owner Consultant
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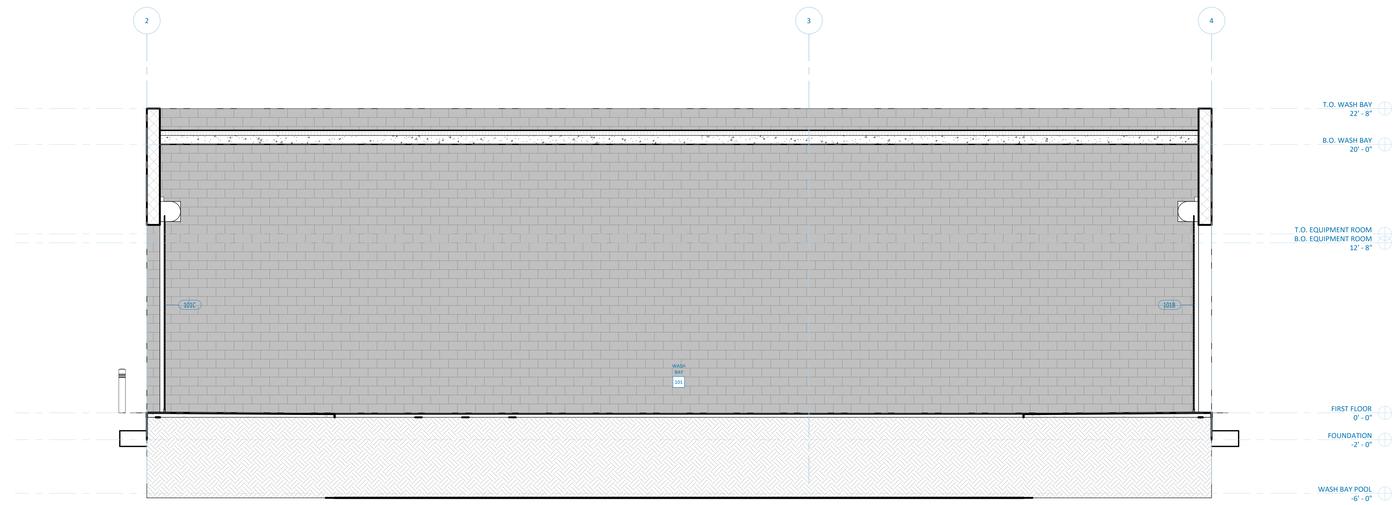
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EXTERIOR ELEVATIONS X300



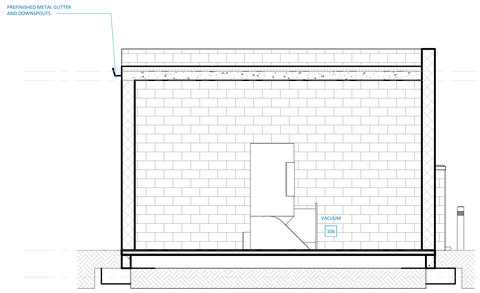
1 WASH BLDG SECTION B

1/4" = 1'-0"



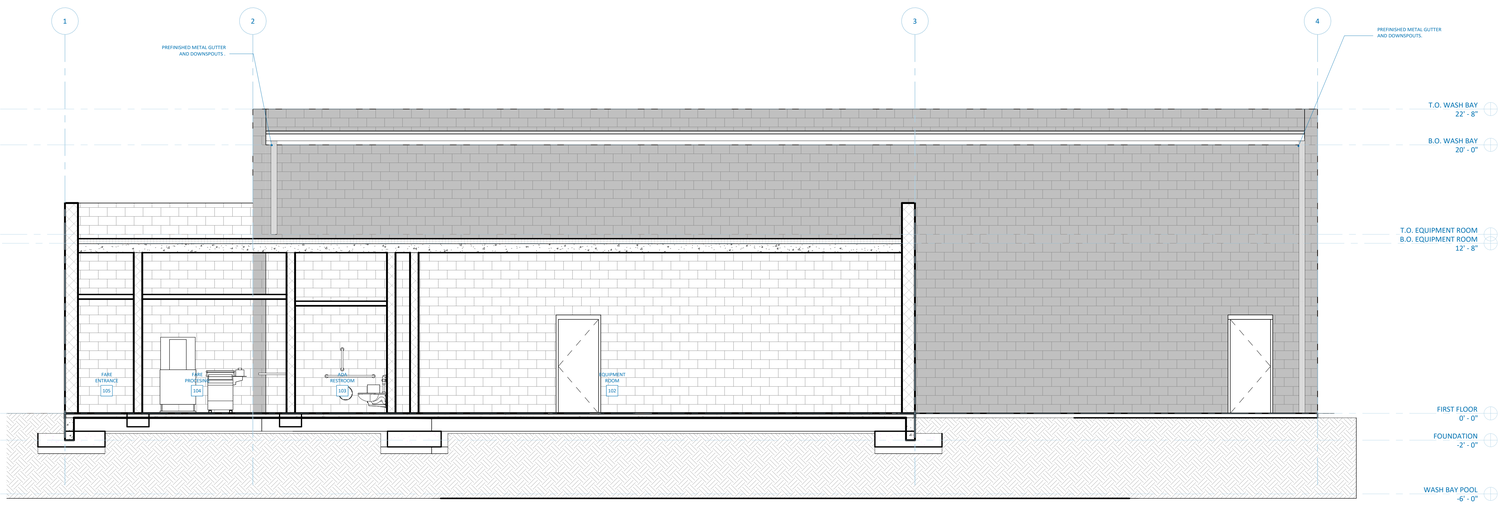
2 WASH BLDG SECTION A

1/4" = 1'-0"



3 DUMPSTER SECTION A

1/4" = 1'-0"



4 EQUIPMENT ROOM SECTION

1/4" = 1'-0"

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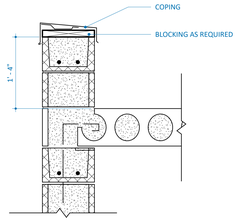
Discipline: Owner Consultant
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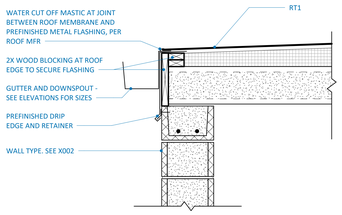
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BUILDING SECTIONS AND WALL SECTIONS **X400**



1 TYP PARAPET DETAIL

1" = 1'-0"



2 TYP GUTTER DETAIL

1" = 1'-0"

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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

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, 100, FLR | BASE, WALL

ROOM FINISH TAG — 0

REVISION CLOUD — REVISION NO. 00, 01; REVISION CLOUD

ABBREVIATIONS

DEMO

EX	Existing
ACT ( )	Acoustical Ceiling Tile (type)
AL	Aluminum
B.O.	Bottom of
BRG	Bearing
CL	Centerline
CLR	Clear (space or dimension)
CMU	Concrete Masonry Unit
CLG	Ceiling
CONC	Concrete
CONT	Continuous
CPT	Carpet
DEMO	Demolish / Demolition
DWG	Drawing
EPDM	Ethylene Propylene Diene Monomer
FIN FL	Finished Floor
F.R.R.	Fire Resistant Rating
GB	Gypsum Board
GD	Grade
GWB	Gypsum Wall Board
INCL	Including
INFILL	Fill in Opening (wall, floor, ceiling, etc.)
INSUL	Insulation
MATL	Material
MFR	Manufacturer
MIN	Minimum
MTL	Metal
N	North
N.I.C.	Not in Contract
N.T.S.	Not to Scale
PRT	Partial Removal
PT	Paint
RCP	Reflected Ceiling Plan
RELOC	Relocate
R.O.	Rough Opening
S	South
SALV	Salvage
S.S.D.	See Structural Drawings
T.O.S.	Top of Steel
T.O.W.	Top of Wall
U.N.O.	Unless Noted Otherwise
V.I.F.	Verify in Field
W	West
WD	Wood

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)

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
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Architect of Record:
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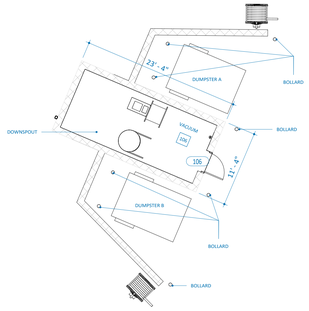
Discipline: Owner Consultant
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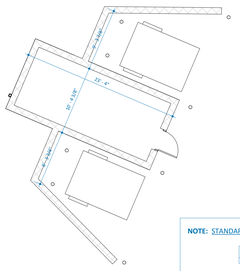
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
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Revisions

PROJECT NO. 2613
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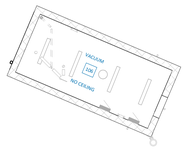
ARCH ABBREVIATIONS AND SYMBOLS LEGEND **A000**

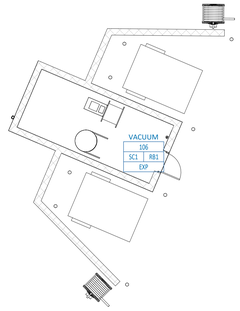


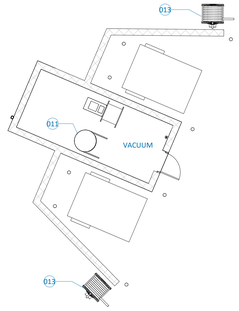


NOTE: STANDARD PARTITION TYPE

--CMU8--







DIMENSIONING NOTES

1. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR FACE OF STUD TO FINISH FACE OF EXISTING WALL.
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

- SEE G000 FOR CODE PLANS & GENERAL INFORMATION
- SEE 'X' SHEETS FOR EXTERIOR ASSEMBLIES & ADDITIONAL INFORMATION

WALL LEGEND

NEW CONSTRUCTION WALL AND PARTITION

NEW CONSTRUCTION DOOR AND FRAME

PARTITION LEGEND

CMU

PARTITION TAG

X-M358-X

INS	UL	FR	P

- TYPE MARK
- WALL TYPE NOTES
- FIRE RATING (IN HRS)
- UL CODE
- INSULATION

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

X-M358-X

- SHEATHING LAYER 02
- SIZE OF CORE MATERIAL
- CORE MATERIAL
- SHEATHING LAYER 01

PARTITION ABBREVIATIONS

CORE MATERIAL

CMU	CONCRETE MASONRY UNIT

SHEATHING MATERIAL

-	NO MATERIAL

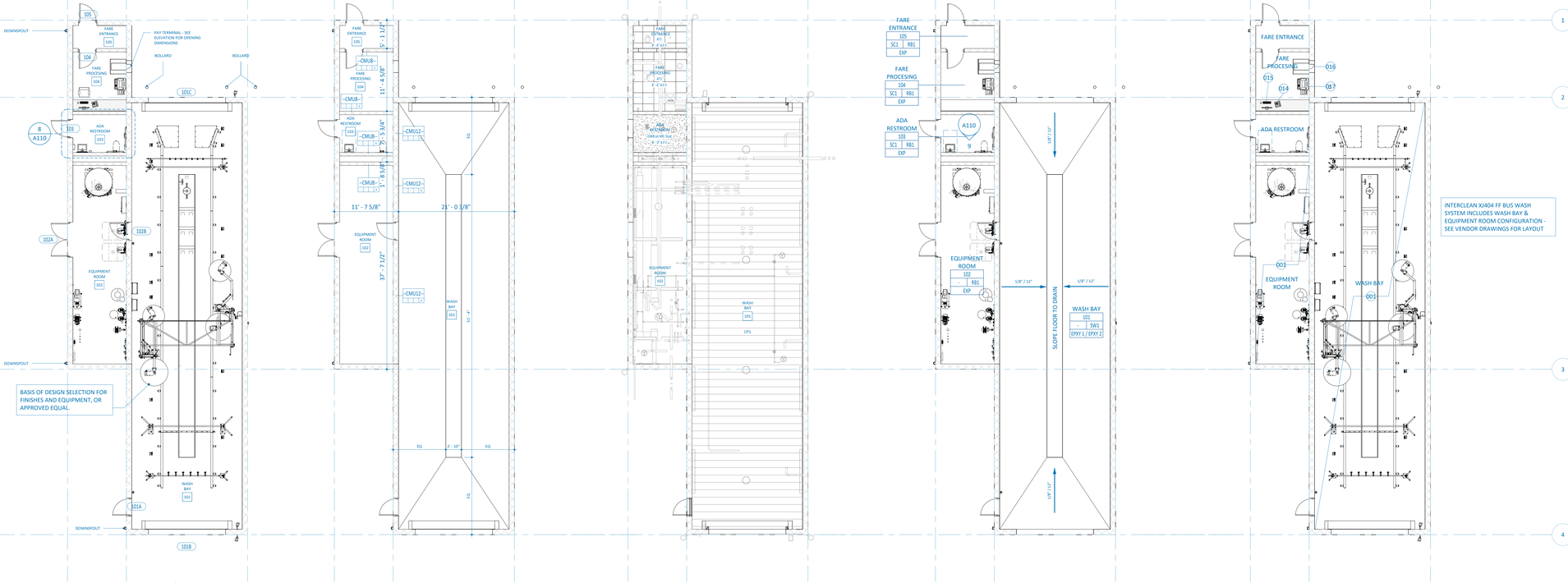
FINISH ABBREVIATIONS

-	NO MATERIAL
AT()	ACOUSTICAL CEILING TILE (TYPE)
CP()	CEILING PANEL (TYPE)
EPXY()	EPOXY (TYPE)
EXP	EXPOSED
PT()	PAINT (TYPE)
SC()	SEALED CONCRETE (TYPE)
SW()	STEM WALL / INTEGRAL CONCRETE CURB (TYPE)

GENERAL FINISH NOTES

1. PAINT ALL NEW HM DOORS AND FRAMES PT4 UNLESS OTHERWISE NOTED
2. ROOM TAG DESCRIPTION:

ROOM NUMBER
FLOORING FINISH
WALL FINISH
ROOM NAME
101
SVT | BB
PT
BASE FINISH



INTERCLEAN X1404 FF BUS WASH SYSTEM INCLUDES WASH BAY & EQUIPMENT ROOM CONFIGURATION - SEE VENDOR DRAWINGS FOR LAYOUT

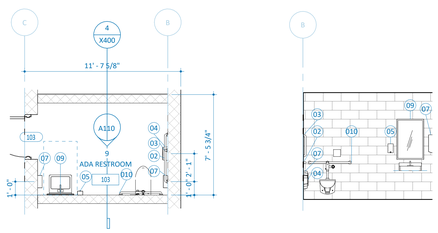
1 FIRST FLOOR PLAN
1/8" = 1'-0"

2 DIMENSIONS AND WALL TYPES PLAN
1/8" = 1'-0"

3 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

4 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

5 FIRST FLOOR EQUIPMENT PLAN
1/8" = 1'-0"



8 ADA TOILET - ENLARGED
1/4" = 1'-0"

9 ADA TOILET ELEVATION
1/4" = 1'-0"

TOILET...

MARK	DESCRIPTION
001	36" GRAB BAR
02	42" GRAB BAR
03	18" VERTICAL GRAB BAR
04	TOILET PAPER DISPENSER
05	SOAP DISPENSER
07	PAPER TOWEL DISPENSER
09	MIRROR

EQUIPMENT SCHEDULE

???

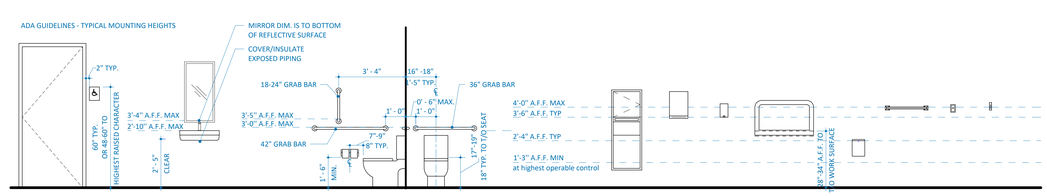
NO.	FURNISHED BY	INSTALLED BY	DESCRIPTION	COUNT
FARE PROCESSING				
017	OWNER	OWNER	CUMMINS ALLISON JETSORT 4000 HIGH-SPEED COIN SORTER - RELOCATE FROM EXISTING FACILITY	1
016	OWNER	OWNER	GENFARE VAULT	1
014	OWNER	OWNER	TELEPHONE, DESK	1
015	OWNER	OWNER	WORKSTATION (MONITOR, KEYBOARD, MOUSE)	1
VACUUM				
011	OWNER	CONTRACTOR	3BIN PULSE JET SEPARATOR	1
013	OWNER	CONTRACTOR	MOTORIZED HOSE REEL	2
WASH BAY & EQUIPMENT ROOM				
001	OWNER	CONTRACTOR	INTERCLEAN XJ404 FF BUS WASH SYSTEM - CONFIRM LAYOUT WITH VENDOR DRAWINGS	1

PARTITION TYPE SCHEDULE

MARK	INSULATION	SHEATHING LAYER SIZE	SHEATHING LAYER SIZE	CORE STUD SIZE	SHEATHING LAYER SIZE	SHEATHING LAYER SIZE	RATING TYPE	NOTES	MARK
--CMU8--	-		-	CMU8"	-		-		--CMU8--
--CMU12--	-		-	CMU12"	-		-		--CMU12--

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" DIAMETER OPEN DOWNLIGHT
- DUCT MOUNT GRILL
- CEILING MOUNTED EXIT SIGN



TYPICAL ADA DETAILS & EQUIPMENT MOUNTING HEIGHTS

FINISH SCHEDULE

FLOORS

SC1	SHERWIN WILLIAMS CLARISHIELD SOLVENT-BASED WET LOOK CLEAR SEALER
SC2	PPG SUPER COAT EPOXY GARAGE FLOOR COATING, COLOR: STONE GRAY
SW1	STEM WALL / INTEGRAL CONCRETE CURB - 4"

WALLS

PT4	SHERWIN WILLIAMS - SEMI-GLOSS FINISH - GRIZZLE GRAY SW7068 (HM DOORS & FRAMES)
EPXY 1	SHERWIN WILLIAMS KEM CATI-COAT HS EPOXY BLOCK FILLER
EPXY 2	SHERWIN WILLIAMS MACROPOXY 646 FAST CURE EPOXY (2 COATS AT 5-10ML DFT EACH) - COLOR: WHITE

CEILINGS

AT1	USG 560 FISSURED BASIC ACOUSTICAL PANELS - SQUARE - 24"X24" - DONN BRAND DX/DXL 15/16" ACOUSTICAL SUSPENSION SYSTEM
CP1	DELPRO 1638™ SMOOTH PANEL, 16" x 20'- WALL-TO-WALL - ATTACH TO PRECAST CONCRETE PLANKS

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P - 214.739.8100

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

Discipline:
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FLOOR PLAN, RCP, DIMENSION AND PARTITION TYPES AND 3D VIEWS **A110**

EXTERIOR DOOR AND FRAME SCHEDULE

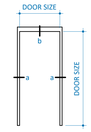
MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATL	GLAZING	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME TYPE	FRAME MATL	FIRE RATING LABEL	NOTES	MARK
101A	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		2/A900	3/A900		FT1	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	101A
101B	14' - 0"	14' - 0"	0' - 0 3/4"	OHD	STL			4/A900		MFR	STL	-	OVERHEAD;BASIS OF DESIGN FOR THERMAL PERFORMANCE: WAYNE DALTON THERMOTITE 800C	101B
101C	14' - 0"	14' - 0"	0' - 0 3/4"	OHD	STL			4/A900		MFR	STL	-	OVERHEAD;BASIS OF DESIGN FOR THERMAL PERFORMANCE: WAYNE DALTON THERMOTITE 800C	101C
102A	6' - 0"	7' - 0"	0' - 1 3/4"	F	HM		2/A900	3/A900		FT1	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR; PAIR OF 3'-0" DOORS	102A
103	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		2/A900	3/A900		FT1	HM	-	POLYURETHANE INSULATED STEEL DOOR	103
105	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		2/A900	3/A900		FT1	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	105
106	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		2/A900	3/A900		FT1	HM	-	POLYURETHANE INSULATED STEEL DOOR	106

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 LABEL	NOTES	MARK
102B	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		102B
104	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-	CR	104

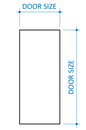
ABBREVIATIONS

CR	CARD READER
HM	HOLLOW METAL
F	FLUSH
OHD	OVERHEAD
STL	STEEL
MFR	MANUFACTURER



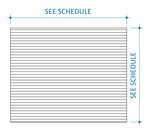
FT1

HOLLOW METAL FRAME



F

FLUSH



OHD

OVERHEAD

DOOR FRAME & TYPE LEGEND



a

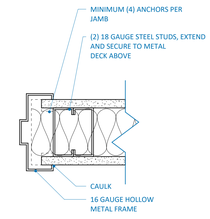
HOLLOW METAL FRAME SECTION



b

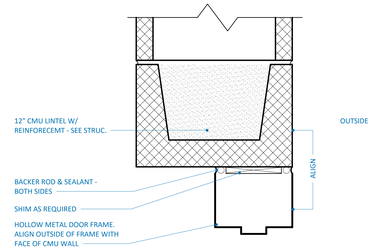
HOLLOW METAL FRAME SECTION

HOLLOW METAL FRAME SECTION



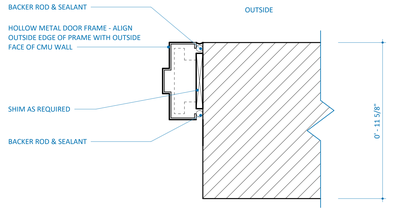
1 DETAIL - JAMB @ FT1

3" = 1'-0"



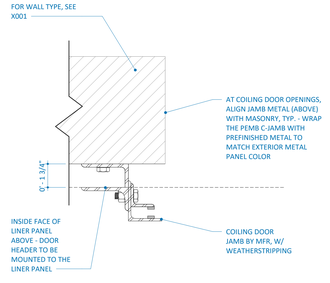
2 DETAIL - HEAD @ FT2

3" = 1'-0"



3 DOOR JAMB @ CMU WALL

3" = 1'-0"



4 COILING DOOR DETAIL

3" = 1'-0"

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

GENERAL PLAN SYMBOLS

	PLAN REVISION NUMBER
1 / P	DETAIL NUMBER ON SHEET SHEET NUMBER WHERE DETAIL IS PLACED
X	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	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
AE	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
C.LG	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.

PLUMBING PIPING

2"	NOMINAL PIPE SIZE
2" CW	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
CW	COLD WATER TYPE
CW	COLD WATER
SCW	SOFTENED COLD WATER
HW	HOT WATER TYPE
HW	HOT WATER
HW 140°	HOT WATER 140°
SHW	SOFTENED HOT WATER
HWR	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
S	SOLENOID VALVE		PLUG VALVE
	GATE VALVE		INLINE PUMP
	GENERIC ISOLATION VALVE		HOSE BIBB/ HYDRANT
	PRESSURE REDUCING VALVE		PRESSURE GAUGE
	UNION		AIR VENT
	STRAINER		PRESSURE RELIEF
M	WATER METER		BACKFLOW PREVENTER
			BACKFLOW PREVENTER

FIXTURE SYMBOLS

FD-1	FLOOR DRAIN (ROUND)	RD	COMBINATION ROOF DRAIN
FD-1	FLOOR DRAIN (SQUARE)		
FCO	FLOOR CLEANOUT	RD	ROOF DRAIN
FS	FLOOR SINK		

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 ANY/ALL 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, NATURAL GAS, AND COMPRESSED AIR PIPING 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 LINES TO 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. DO NOT USE PVC MATERIALS IN PLENUM AREAS USED AS RETURN AIR PATHS. REFERENCE ARCHITECTURAL CEILING PLAN AND MECHANICAL PLANS.
33. VERIFY THE LOCATION AND INVERT ELEVATION OF THE SANITARY SEWER ON THE SITE PLAN AND REVISE THE SEWER SYSTEM AS REQUIRED.
34. 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.
35. 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.
36. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
37. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE NOT LESS THAN 1".
38. DO NOT ROUTE PIPING DIRECTLY ABOVE OR BELOW ELECTRICAL PANELS, INCLUDING PANEL SERVICE CLEARANCES.
39. DO NOT SUSPEND PIPING FROM OTHER PIPING, DUCTWORK OR CONDUIT. ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE USING THE APPROPRIATE ATTACHMENTS.
40. PIPE SPACING SHOWN ON THE DRAWINGS IS FOR CLARITY ONLY. PIPING SHALL BE INSTALLED TO CONSERVE SPACE WHERE POSSIBLE.
41. REFER TO MECHANICAL SHEETS FOR PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT.
42. 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.
43. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPING SIZES TO INDIVIDUAL FIXTURES. BRANCH PIPE SIZES SHALL MATCH SCHEDULE UNLESS OTHERWISE NOTED.
44. SOIL ON SITE IS CONTAMINATED AND CANNOT BE REMOVED FROM SITE. SEE CIVIL DRAWINGS FOR STOCKPILE LOCATION.

PLUMBING SHEET INDEX

PW000	PLUMBING COVER PAGE
PW100	PLUMBING FLOOR PLANS
PW500	PLUMBING DETAILS
PW600	PLUMBING SCHEDULES

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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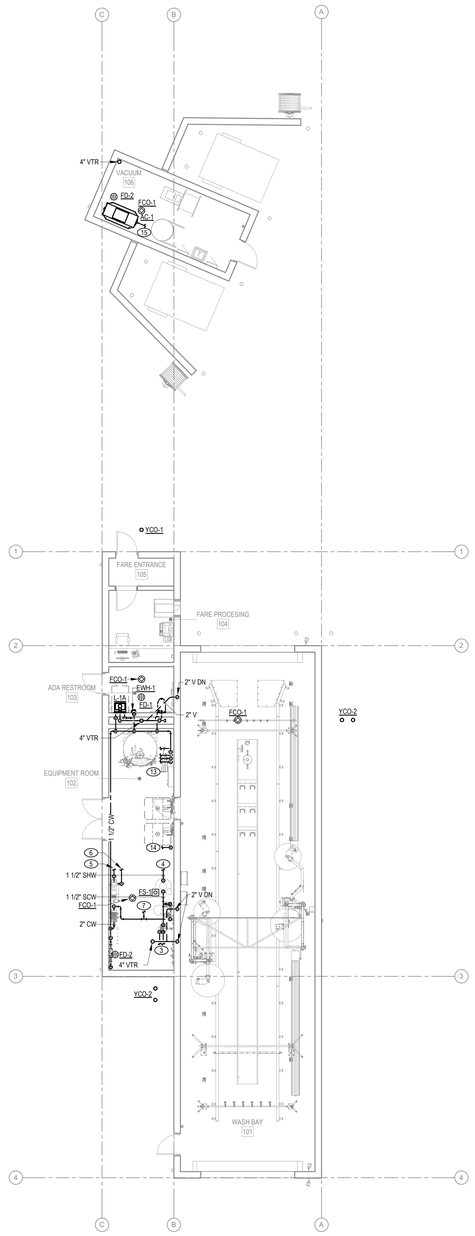
PLUMBING COVER PAGE **PW000**

GENERAL NOTES:

1. PLUMBING CONTRACTOR TO COORDINATE WITH INTERCLEAN DRAWINGS, SPECIFICALLY THE PLUMBING SCHEMATICS. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL ITEMS SLATED TO BE PROVIDED BY GENERAL CONTRACTOR, PLUMBING CONTRACTOR, AND CUSTOMER. PLUMBING CONTRACTOR TO COORDINATE WITH ITEMS PROVIDED BY INTERCLEAN TO ENSURE PROPER CONNECTIONS AND OPERATION.

KEYED NOTES:

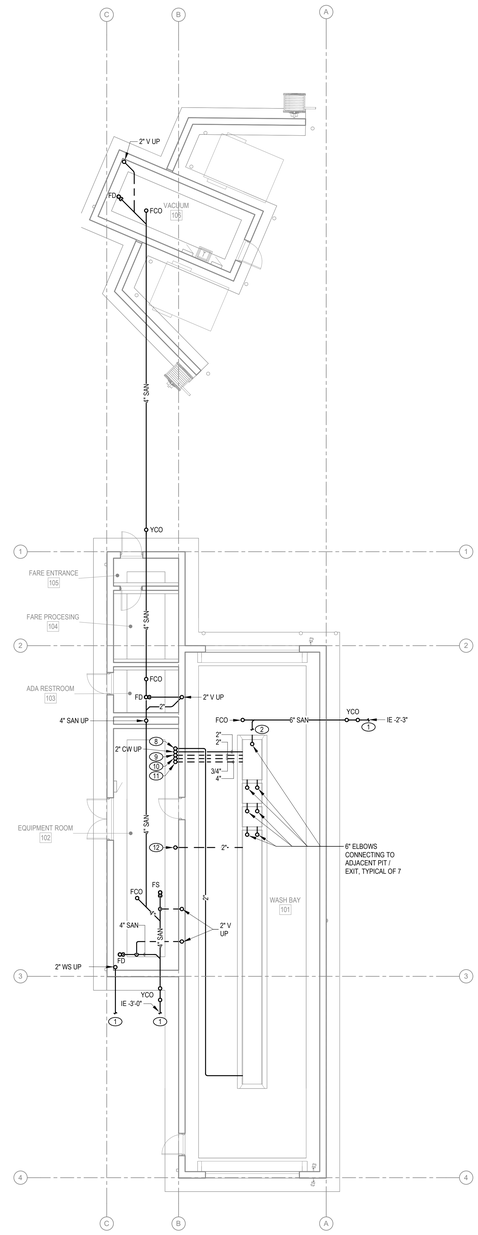
1. SEE CIVIL DRAWINGS FOR PIPE CONTINUATION.
2. CONNECT 6" SAN TO WASH PIT. SEE INTERCLEAN DRAWINGS.
3. TWO (2) 1" RO PIPES TO CONNECT TO RO WATER TANKS, THEN PIPED TO RINSE MODULE AND FINAL RINSE ARCH. SEE INTERCLEAN DRAWINGS.
4. ONE (1) 1 1/2" SHW PIPE TO CONNECT TO CHEMICAL MODULE. SEE INTERCLEAN DRAWINGS.
5. ONE (1) 3/4" CA PIPE TO CONNECT TO EQUIPMENT MODULE. SEE INTERCLEAN DRAWINGS.
6. ONE (1) 1/2" CA HOSE TO CONNECT TO WALL MODULE AND PNEUMATIC PANEL. SEE INTERCLEAN DRAWINGS.
7. ONE (1) 1" CW PIPE TO CONNECT TO LUBRICATION INJECTION MODULE. SEE INTERCLEAN DRAWINGS.
8. ONE (1) 2" PIPE FOR PIT CIRCULATION/AERATION DISCHARGE UP. SEE INTERCLEAN DRAWINGS.
9. ONE (1) 2" PIPE FOR PIT CIRCULATION/AERATION SUCTION UP. SEE INTERCLEAN DRAWINGS.
10. ONE (1) 3/4" AIR PIPE FOR INTAKE SCREEN AIR BACK-WASH UP. SEE INTERCLEAN DRAWINGS.
11. ONE (1) 4" PIPE FOR SUMP PUMP SUCTION UP. SEE INTERCLEAN DRAWINGS.
12. ONE (1) 2" PIPE FOR WATER TANK OVERFLOW UP. SEE INTERCLEAN DRAWINGS.
13. ASSORTED PIPING TO CONNECT TO EQUIPMENT MODULE. SEE INTERCLEAN DRAWINGS.
14. ONE (1) 2" PIPE FOR WATER TANK OVERFLOW TO CONNECT TO WATER TANK. SEE INTERCLEAN DRAWINGS.
15. ONE (1) 1/2" COMPRESSED AIR PIPE TO CONNECT TO RESERVOIR TANK OF PULSE JET SEPARATOR (PULSE JET SEPARATOR PROVIDED BY OTHERS).



N

2 PLUMBING FLOOR PLAN

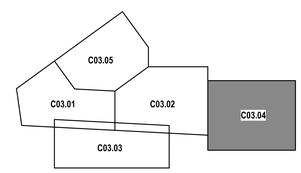
1/8" = 1'-0"



N

1 PLUMBING UNDERFLOOR PLAN

1/8" = 1'-0"



KEY MAP

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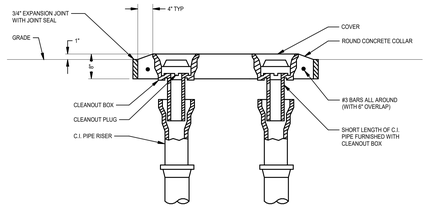
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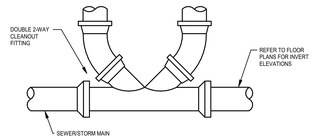
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PLUMBING FLOOR PLANS PW100

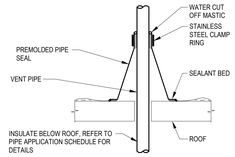




6 P - 2-WAY YARD CLEANOUT
N.T.S.

GENERAL NOTES:

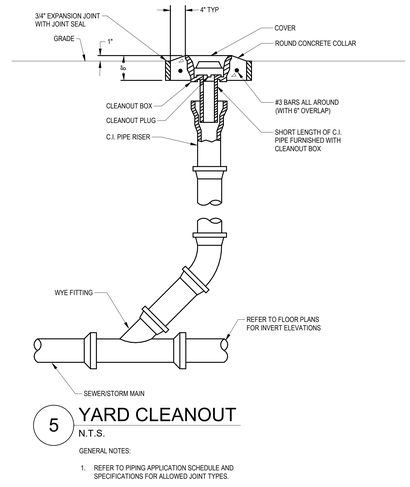
1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.



3 VENT THROUGH ROOF
N.T.S.

GENERAL NOTES:

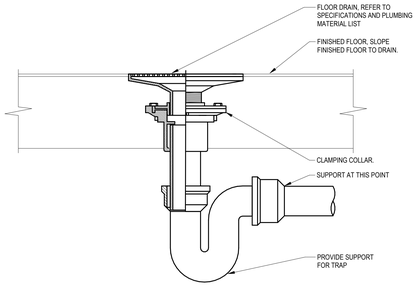
1. PIPE SEAL SHALL BE COMPATIBLE WITH ROOFING SYSTEM.
2. THE MINIMUM PIPE SIZE FOR ALL ROOF PENETRATIONS SHALL BE 4"
3. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ALL OUTSIDE AIR INTAKES. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.



5 YARD CLEANOUT
N.T.S.

GENERAL NOTES:

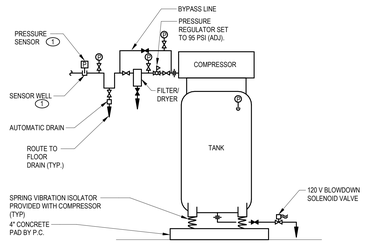
1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.



2 FLOOR DRAIN - ON GRADE
N.T.S.

GENERAL NOTES:

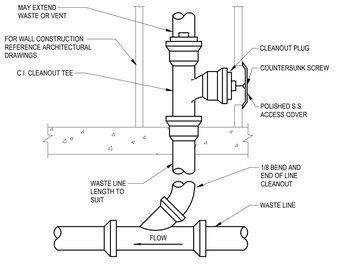
1. REFER TO PLUMBING MATERIAL LIST FOR SPECIFIC DRAIN OPTIONS & ACCESSORIES.



7 AIR COMPRESSOR
N.T.S.

KEYED NOTES:

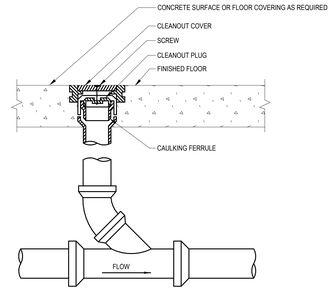
1. PRESSURE SENSORS PROVIDED BY A.T.C., INSTALLED BY P.C.



4 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. COORDINATE ALL WALL CLEANOUT LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS 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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Revisions

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

PLUMBING DETAILS **PW500**

AIR COMPRESSOR SCHEDULE

MARK	MANUFACTURER	MODEL	COMPRESSOR		RECIEVER TANK		AIRFLOW	PRESSURE (PSI)		ELECTRICAL						OPTIONS	NOTES
			TYPE	QUANTITY	CAPACITY (GAL)	DIMENSIONS (INCHES)	SCFM	DESIGN	OPERATING	HP	VOLT	PH	EMERGENCY POWER	DISCONNECT BY	CONTROLLER BY		
AC-1	SAYLOR-BEALL	CD-720-80	RECIPROCATING	1	80	63 x 32 x 32	7.5	200	175	2	460	3	NO	E.C.	MFR	1,2,3,4,5,6	1

NOTES:
1. REFER TO VIBRATION ISOLATION SCHEDULE FOR SPECIFIC EQUIPMENT REQUIREMENTS.

OPTIONS
1. AIR COOLED AFTERCOOLER
2. SINGLE POINT POWER CONNECTION
3. UNIT MOUNTED CONTROLS
4. COALESCING FILTER
5. REFRIGERATED AIR DRYER
6. PRESSURE GAUGES

PLUMBING CONNECTION SCHEDULE

	MINIMUM BRANCH SIZING				FIXTURE CONNECTION SIZE			
FIXTURE	CW	HW	SAN	VENT	CW	HW	SAN	NOTES
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"	-	-	
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	3/8"	3/8"	1 1/4"	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".

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	
EWH-1	RHEEM	RTEH-30	ELEC	3.0	-	-	120	150 PSI	NO	-	120	1	EC	-

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"		
DEIONIZED / REVERSE OSMOSIS	ABOVE GRADE	125	POLYPROPYLENE, STAINLESS STEEL, CPVC	MECHANICAL PRESS CONNECTION, OR SOLVENT	ALL	-	-	9
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 (NON-PLENUM)	N/A	DWV COPPER, AND/OR SCH 40 PVC	SOLDER, AND/OR SOLVENT	ALL	1"	FIBERGLASS	8
COMPRESSED AIR	GENERAL	125	SCH 40 BLACK STEEL, SCH 40 GALVANZED STEEL, COPPER	THREADED, FLANGED, WELDED, OR SOLDER	ALL	-	-	-
			POWDER COATED ALUMINUM	MECHANICAL PUSH-ON CONNECTION	ALL	-	-	-
WATER HEATER INTAKE AND FLUE	ABOVE GRADE	N/A	SCH 40 CPVC	SOLVENT	ALL	1/2"	ELASTOMERIC FOAM	10

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. ALL VALVES, FITTINGS, CONNECTORS, SPECIALTIES, AND APPURTENANCES SHALL BE COMPATIBALE WITH DI/RO WATER.
10. INSULATION REQUIRED FOR THE FIRST 10' OF PIPING FROM ROOF AND FOR HORIZONTAL PIPING INSTALLED FOR 7' IN A MECHANICAL ROOM.

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 LF009	FIXTURE: REDUCED PRESSURE BACKFLOW PREVENTER, SPRING LOADED CHECKS WITH A DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN THE CHECK VALVES. BRONZE WITH BRONZE, PLASTIC OR STAINLESS STEEL INTERNAL PARTS AND STAINLESS STEEL SPRINGS. 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 SHUTOFF, BALL 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 C511-92, 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 LFF113RFP OR PRIOR APPROVED EQUAL. PROVIDE WITH AIR GAP DRAIN FITTING EQUAL TO AG-1.	120V / SINGLE PHASE / 20 AMP	3
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 Z-415 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 Z-415 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.	-	-
FS-1		ZURN Z-1900 SERIES	FIXTURE: FLOOR SINK - 8" x 8" NICKEL BRONZE RIM AND 1/2 GRATE, 4" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH DOME STRAINER, CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE, SEEPAGE HOLES, & CLAMPING COLLAR, DEEP SEAL TRAP.	-	-
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.	-	-
MV-1		POWERS LF480 SERIES	FIXTURE: UNDER-COUNTER THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL. ALL LEAD FREE BRONZE/BRASS CONSTRUCTION. TAMPER RESISTANT ADJUSTABLE TEMPERATURE CONTROL, 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.	-	-
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 (115-330). NUMBER ON PLAN DENOTES SIZE.	-	-
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, 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 STAINLESS STEEL ACCESS COVER AND EXTENDED MACHINE SCREW.	-	-
YCO-1	-	ZURN Z-1474	FIXTURE: YARD CLEANOUT - ROUND DURA-COATED CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER WITH LIFTING DEVICE. BRONZE CLEANOUT PLUG AND GAS/WATERTIGHT SEAL. SIZE AS LISTED ON PLANS.	-	-
YCO-2	-	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.

LAVATORY 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-6340 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

NOTES:
1. SEE SPECIFICATIONS FOR LIST OF ACCEPTABLE MANUFACTURERS AND INSTALLATION REQUIREMENTS.
2. HARDWIRED DISCONNECT BY E.C.

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PLUMBING SCHEDULES **PW600**

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	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

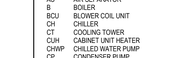
DUCTWORK SYMBOLS

- 24/12 — RECT. DUCT SIZE (WIDTH / HEIGHT)
- 18Ø — ROUND DUCT SIZE (DIAMETER)
- 16/12Ø SUPPLY AIR — OVAL DUCT SIZE (WIDTH / HEIGHT)
- 18/12 — EXISTING DUCT TO REMAIN
- 16/12 — 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



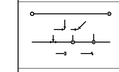
DAMPER TYPES

- 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 AMENDOMENTS 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 USED 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 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

MW000	MECHANICAL COVER PAGE
MW100	MECHANICAL FLOOR PLAN
MW500	MECHANICAL DETAILS
MW600	MECHANICAL SCHEDULES

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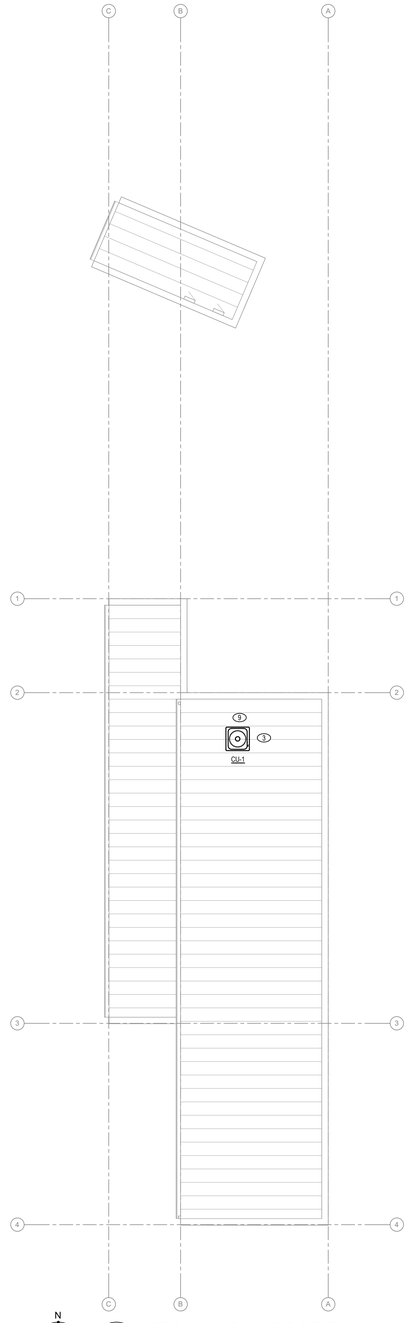
Revisions

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MECHANICAL COVER PAGE **MW000**

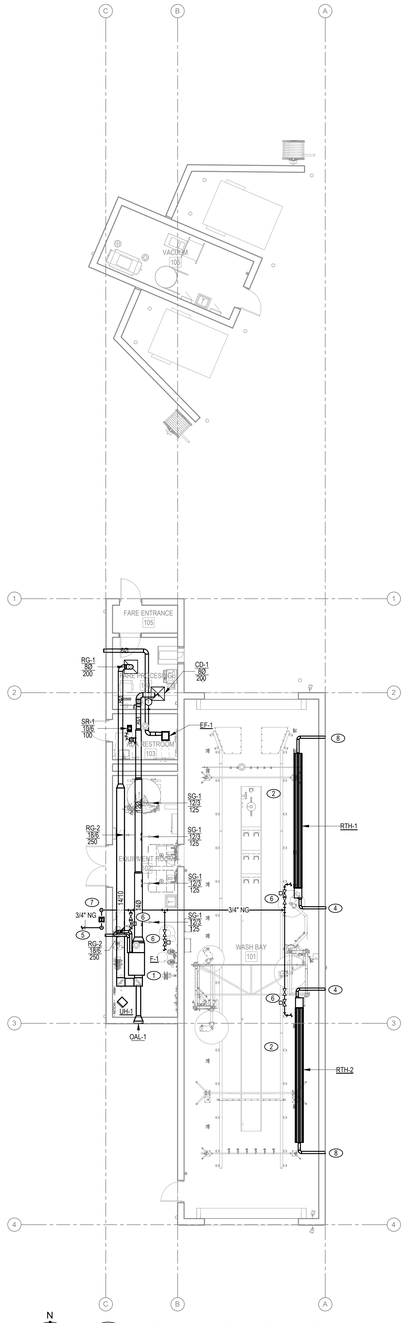
KEYED NOTES:

1. MOUNT FURNACE FROM STRUCTURE. COORDINATE EXACT LOCATION AND CLEARANCES WITH WASH EQUIPMENT.
2. PROVIDE SHEET METAL COVER A MINIMUM OF 2" ABOVE ROOF MOP TO PROTECT EQUIPMENT FROM RADIANT TUBE HEATER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO INSTALLATION.
3. COORDINATE CONDENSING UNIT PLACEMENT WITH SAFETY GUARDRAIL PRIOR TO INSTALLATION.
4. COMBUSTION AIR INLET. TERMINATE WITH MFR APPROVED INTAKE HOOD.
5. COORDINATE WITH LOCAL UTILITY OT PROVIDE GAS METER AND REGULATOR. PROVIDE 2 PSI GAS. SEE CIVIL FOR PIPE CONTINUATION BELOW GRADE.
6. PROVIDE GAS PRESSURE REDUCING VALVE (2 PSI TO MANUFACTURERS RECOMMENDED PRESSURE) AND SHUTOFF VALVE AT UNIT. VENT VALVE AS REQUIRED. PROVIDE DRIP LEG
7. ALL EXTERIOR NATURAL GAS PIPING TO BE PAINTED.
8. PROVIDE CATEGORY III VENT AND SIDEWALL VENT CAP PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE PLASTIC PAD A MINIMUM OF 4 INCHES THICK FOR CONDENSING UNIT TO BE INSTALLED ON. PAD TO BE 6 INCHES WIDER AND LONGER IN ALL DIRECTIONS.



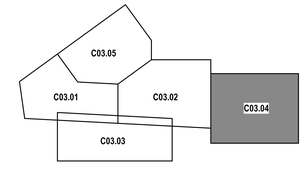
N

2 MECHANICAL ROOF PLAN
1/8" = 1'-0"



N

1 MECHANICAL FLOOR PLAN
1/8" = 1'-0"



KEY MAP

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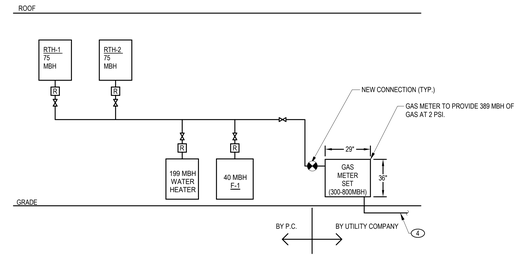
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MECHANICAL FLOOR PLAN **MW100**



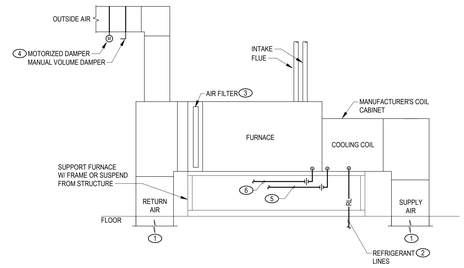
4 NATURAL GAS PIPING RISER
N.T.S.

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:

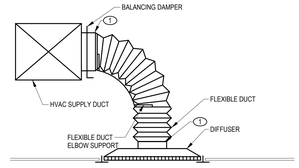
1. M.C. TO PROVIDE UNI-STRUT RACK AND MOUNTING HARDWARE PER UTILITY COMPANY REQUIREMENTS.
2. M.C. TO PROVIDE BOLLARD POSTS PER UTILITY COMPANY REQUIREMENTS. REFER TO NATURAL GAS METER SET BOLLARD DETAIL FOR ADDITIONAL REQUIREMENTS.
3. LINE SIZE VALVE & CAP FOR FUTURE CONNECTION.
4. UNDER GROUND GAS UTILITY MAIN BY OTHERS.



3 GAS FURNACE DETAIL - HORIZONTAL
N.T.S.

KEYED NOTES:

1. SEE DRAWINGS FOR DUCT ROUTING AND PIPE SIZING.
2. COORDINATE SIZE AND ROUTING OF REFRIGERANT LINES WITH MANUFACTURER.
3. LOCATE FILTER IN RETURN AIR DUCT IF STANDARD BOTTOM INLET FILTER AREA IS TOO SMALL. ADJUST DUCTWORK SIZE TO OBTAIN MIN. AREA REQUIREMENTS. PROVIDE HINGED, GASKETED AND CAM-LOCKED ACCESS DOOR.
4. INTERLOCK MOTORIZED DAMPER W/ FURNACE TO OPEN WHEN FAN RUNS. SEE DRAWINGS FOR LOCATION OF MOTORIZED DAMPER.
5. CONDENSATE DRAIN. ROUTE FULL SIZE TO FLOOR DRAIN. PROVIDE TRAP.
6. COMBUSTION CHAMBER DRAIN. PROVIDE NEUTRALIZATION BASIN/ TUBE. ROUTE SEPARATE FROM COIL DRAIN. ROUTE FULL SIZE TO FLOOR DRAIN. PROVIDE TRAP.



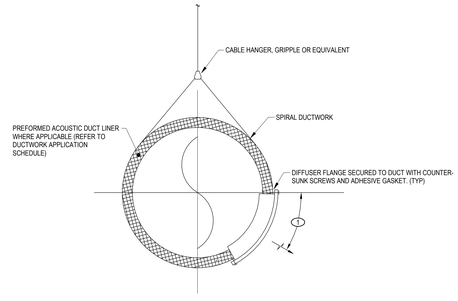
2 FLEX DUCT INSTALL
N.T.S.

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



1 DUCT MOUNTED DIFFUSER - CURVED
N.T.S.

GENERAL NOTES:

1. DAMPER/EXTRACTOR NOT SHOWN. INCLUDE UNLESS NOTED OTHERWISE.
2. PROVIDE AN "L" SHAPED ALUMINUM TRIM PIECE AT ALL WALL PENETRATIONS TO COVER THE GAP BETWEEN THE DUCT AND THE WALL MATERIAL. COORDINATE THE COLOR WITH THE ARCHITECT.

KEYED NOTES:

1. VERIFY ANGLE PRIOR TO FABRICATION.

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Revisions

PROJECT NO. 2613
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MECHANICAL DETAILS **MW500**

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.

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

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	F-1			ROUND / RECT / FLAT OVAL	MINIMUM R-VALUE (NOTE 2)	THICKNESS (IN.) (NOTE 3)	TYPE	LINER, WRAP, OR BOARD	
FURNACES	F-#	OUTSIDE AIR	OUTSIDE AIR LOUVER TO AHU HEATING COIL	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
		SUPPLY AIR	FAN TO AIR OUTLET	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					B	2				R-6	1-1/2"	C OR D	LINER	
	F-#	RETURN AIR	AIR INLET TO AHU / RTU	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					B	2				R-6	1-1/2"	C OR D	LINER	
GENERAL EXHAUST	EF-#	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	OAL-#	OUTSIDE AIR	LOUVER TO INSULATED DAMPER	CONSTANT VOLUME	-	N / A	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
GAS-FIRED APPLIANCE INTAKES AND FLUES	F-#	OUTSIDE AIR	INSIDE THE BUILDING: INLET TO COMBUSTION AIR	CONSTANT VOLUME	-	N / A	SCH 40 CPVC	-	ROUND	R-6	-	A	WRAP	
		EXHAUST / FLUE	INSIDE THE BUILDING: COMBUSTION AIR TO OUTLET	CONSTANT VOLUME	-	N / A	SCH 40 CPVC	-	ROUND	R-4	-	A	WRAP	
DUCTWORK ACCESSORIES	GENERAL	GENERAL	-	-	-	N / A	-	-	-	R-6	2.2"	A	WRAP	

FURNACE & CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	FURNACE MODEL	COND. UNIT MODEL	EVAP. COIL MODEL	MINIMUM OUTSIDE AIR (CFM)	FAN/BLOWER				HEATING		FILTERS (NOTE 2)		ELECTRICAL				CONDENSING UNIT									NOTES
						AIRFLOW (CFM) (HIGH SPEED)	EXT. S.P. (IN. W.C.)	HP	AIR FLOW TYPE	MIN. INPUT (BTUH)	MIN. OUTPUT (BTUH)	THICKNESS/TYPE	MERV	VOLT	PH	DISCONNECT BY	CONTROLLER BY	AMBIENT AIR TEMP. (°F)	REFRIGERANT (NOTE 4)	MBH	SEER	VOLT	PH	MCA	MOCP	DISCONNECT		CONTROLLER BY	
																									BY	TYPE	
F-1 / CU-1	TRANE	S9V2B0403VSAB	5TTV0X24A1000B	4XT SERIES	160	800	0.9	3/4	HORIZONTAL	40,000	39,000	2"	8	120	1	EC	MFR	95	R-454B	24	18.2	208	1	19.0	30.0	EC	NON-FUSED	MFR	1, 3

NOTES:
1. PROVIDE GAS FURNACE WITH A CONCENTRIC VENT KIT. INSTALL VENT PIPING PER THE MANUFACTURER RECOMMENDATIONS.
2. CONTRACTOR TO PROVIDE FURNACE WITH FILTER RACK. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
3. PROVIDE SEA COAST COATING TO UNITS. VERIFY COATING REQUIREMENTS WITH MANUFACTURER.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	AIRFLOW (CFM)	S.P. (IN. W.C.)	MAX FAN RPM	DRIVE	MAX. AMCA SONES	FAN CONSTRUCTION	ELECTRICAL (FAN)					DAMPER	CONTROL TYPE	NOTES
										HOUSING (STEEL OR ALUM)	WATTS	VOLT	PH	DISCONNECT		TYPE (MOTORIZED OR GRAVITY)		
														BY	TYPE			
EF-1	GREENHECK	SP-B110	RESTROOM	RESTROOM FAN	125	0.5	950	DIRECT	1.5	STEEL	8	115	1	MFR	NON-FUSED	GRAVITY	1	1

NOTES:
1. PROVIDE WITH HOODED WALL CAP.

CONTROL TYPE:
TYPE 1. WALL MOUNTED SWITCH INTERLOCKED WITH LIGHT.

UNIT HEATER SCHEDULE - ELECTRIC

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	NOMINAL CFM	ELECTRIC COIL				ELECTRICAL								CONTROL TYPE	NOTES
						EAT (°F)	LAT (°F)	TOTAL KW	NUMBER OF STAGES	FAN HP	VOLT	PH	MCA	MOCP	DISCONNECT		STARTER BY		
															BY	TYPE			
UH-1	TRANE	UHEC	EQUIPMENT ROOM	WALL HUNG	400	50	76	3.3	1	FHP	277	1	15.9	20	MFR.	NON-FUSED	N/A	1	1

NOTES:
1. COORDINATE EXACT LOCATION AND CLEARANCE WITH EQUIPMENT IN ROOM.

CONTROL TYPES:
1. UNIT MOUNTED THERMOSTAT (EXTERNAL KNOB ADJUSTMENT. NO TOOLS REQUIRED)
2. UNIT MOUNTED THERMOSTAT (TAMPER PROOF / SCREWDRIVER OPERATED)
3. WALL MOUNTED THERMOSTAT - STAND ALONE
4. WALL MOUNTED THERMOSTAT - DDC
5. WALL MOUNTED THERMOSTAT - STAND-ALONE WITH HEAVY DUTY ENCLOSURE

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"		

RADIANT TUBE HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	HEATING - GAS		ELEMENT LENGTH (FT.)	MOUNTING ANGLE	ELECTRICAL					NOTES
				PRESSURE (IN. W.C.)	INPUT (MBH)			AMPS	VOLT	PH	DISCONNECT	CONTROLLER BY	
											BY	TYPE	
RTH-1	DETROIT RADIANT	HL2-SS-20-75-N	WASH BAY	7-14"	75	21' 7"	0°	4.8	120	1	EC	NON-FUSED	MFR	1, 2, 3, 4
RTH-2	DETROIT RADIANT	HL2-SS-20-75-N	WASH BAY	7-14"	75	21' 7"	0°	4.8	120	1	EC	NON-FUSED	MFR	1, 2, 3, 4

NOTES:
1. INSTALL PER MANUFACTURER'S REQUIREMENTS MAINTAINING CLEARANCES TO COMBUSTIBLES.
2. INSTALL SHEET METAL GUARD A MINIMUM OF 2" ABOVE ANY WASH EQUIPMENT OVER 14' 6" TALL.
3. PROVIDE WALL CAP FOR INTAKE AND EXHAUST. PROVIDE WITH BIRDSCREENS.
4. VERIFY HEATERS ARE STAINLESS STEEL AND RATED FOR WET ENVIRONMENT.

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	30RS	0° DEFLECTION	DUCT MOUNTED	SEE DWG.	INLET + 3/4"	NO	STEEL	WHITE	
SG-1	TITUS	S300FL	CURVED DOUBLE DEFLECTION	DUCT MOUNTED	SEE DWG.	INLET + 1 1/2"	YES	ALUMINUM	WHITE	3
EG-1	TITUS	OMNI-AA	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	ALUMINUM	WHITE	

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.

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					
OAL-1	GREENHECK	EHH-601	F-1	160	16	x	12	0.30	494	0.1	BAKED ENAMEL	2

NOTES:
1. COLOR SELECTION BY ARCHITECT.
2. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK TO OPEN WITH FURNACE OPERATION DURING OCCUPIED TIME.

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	-

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.

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Revisions

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DRAWN BY ADG

MECHANICAL SCHEDULES **MW600**

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)	LTNG	LIGHTNING
A	6" ABOVE COUNTER OR BACKSPLASH	LV	LOW VOLTAGE
	TO CENTERLINE OF DEVICE	M	INSTALL DEVICE IN MILLWORK
A, AMP	AMPERE	MAX	MAXIMUM
AC	ABOVE COUNTER, AIR CONDITIONING UNIT	MAG.S	MAGNETIC STARTER
ACLG	ABOVE CEILING	M/C	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	MDC	MAIN DISTRIBUTION CENTER
	INTERRUPTER	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	N/A	NOT APPLICABLE
	CONTRACTOR	NFDS	NON-FUSED SAFETY DISCONNECT
ATS	AUTOMATIC TRANSFER SWITCH		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	NTS	NOT TO SCALE
	UNBREAKABLE THERMOPLASTIC COVER	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	TV	TELEVISION
	SUPPLY PANEL	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
HT	HEIGHT		HEIGHT ABOVE FINISHED FLOOR
HTG	HEATING		TO CENTERLINE OF DEVICE
HTR	HEATER		
HV	HIGH VOLTAGE	∠	ANGLE
HVAC	HEATING, VENTILATING AND AIR	@	AT
	CONDITIONING	▲	DELTA
IC	INTERRUPTING CAPACITY	'	FEET
IG	ISOLATED GROUND	"	INCHES
IMC	INTERMEDIATE METAL CONDUIT	#	NUMBER
INCAND	INCANDESCENT	Ø	PHASE
IR	INFRARED	C	CENTER LINE
IW	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		

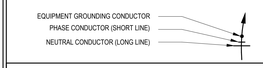
BREAKER FUNCTION SCHEDULE

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 INTERUPTER FOR EQUIPMENT (30mA)
GF	ADJUSTABLE GROUND FAULT PROTECTION FOR EQUIPMENT
HL	HANDLE LOCK TO LOCK BREAKER IN CLOSED POSITION
KI	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
	KEYED NOTE
	LIGHTING CONTROL CALLOUT SYMBOL (DIAMOND)
1	ELECTRICAL EQUIPMENT SYMBOL (OCTAGON)

GENERAL ELECTRICAL SYMBOLS

	ELECTRICAL CONNECTION
EPO	EMERGENCY STOP PUSH BUTTON
EPM	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
NEP	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
BR	BEAM SMOKE REFLECTOR
BT	LINEAR BEAM SMOKE DETECTOR
SCT	LINEAR BEAM SMOKE DETECTOR
DSD	DUCT SMOKE DETECTOR
RI	DUCT SMOKE DETECTOR REMOTE INDICATOR STATION
H	HEAT DETECTOR ADDRESSABLE
LHD	LINEAR HEAT DETECTION CABLE
F	ADDRESSABLE FIRE ALARM MANUAL PULL STATION
S	SMOKE DETECTOR
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
#	VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
	SPEAKER NOTIFICATION APPLIANCE, CEILING MOUNTED
#	SPEAKER/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
A	HORN NOTIFICATION APPLIANCE, WALL MOUNTED
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
S	SPEAKER NOTIFICATION APPLIANCE, WALL MOUNTED
S #	SPEAKER/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
	VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
AM	ADDRESSABLE MONITOR MODULE
AR	ADDRESSABLE RELAY MODULE
	MAGNETIC DOOR HOLDER
HD	HVAC ELEVATOR HOISTWAY DAMPER
SD	HVAC SMOKE DAMPER
ZAM	ZONE ADAPTER MODULES
CO	CO DETECTOR
VCC	VOICE COMMAND CENTER
DCD	DUCT CO DETECTOR
T	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

EW000	ELECTRICAL COVER PAGE
ES101	ELECTRICAL BID #2 SITE PLAN
ES102	ELECTRICAL SITE LIGHTING PLAN
ES103	ELECTRICAL SITE PHOTOMETRIC PLAN
ELW100	ELECTRICAL LIGHTING PLAN
EMW100	ELECTRICAL EQUIPMENT POWER PLAN
EPW100	ELECTRICAL POWER PLAN
EPW300	ELECTRICAL ROOF PLAN
EYW100	ELECTRICAL SYSTEMS PLAN
EW500	ELECTRICAL DETAILS
EW501	ELECTRICAL DETAILS
EW502	ELECTRICAL DETAILS
EW600	ELECTRICAL SCHEDULES

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ELECTRICAL COVER PAGE **EW000**

KEYED NOTES:

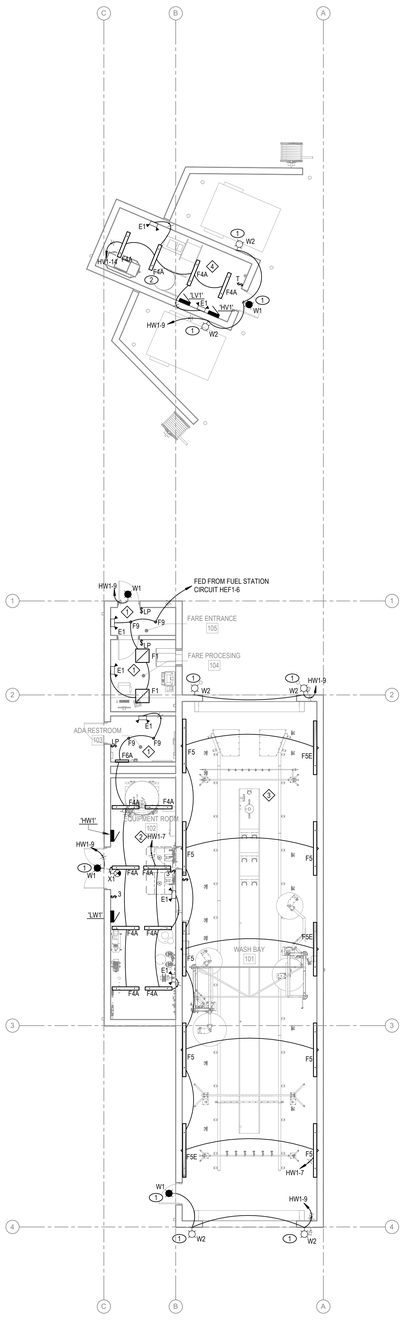
1. EXTERIOR LIGHTS SHALL BE CIRCUITED TOGETHER AND CONTROLLED VIA TIMER FROM DUSK TO DAWN WITHIN WASH BUILDING WITH PHOTOCELL OVERRIDE AS PART OF THE CAMPUS BUILDING LIGHTING CONTROL SYSTEM. VERIFY WITH OWNER EXACT TIMING OF EXTERIOR LIGHTING CONTROLS.
2. DRIVE GROUND ROD AND BOND TO VACUUM BUILDING STEEL TO FORM A CONTINUOUS GROUNDING ELECTRODE SYSTEM.

LIGHTING CONTROLS

TYPE	DESCRIPTION
1	AUTO ON TO 50% MANUAL ON TO 100% / AUTO OFF AFTER 20 MINUTES OF BEING UNOCCUPIED.
2	MANUAL ON / MANUAL OFF DUE TO SAFETY CONCERNS
3	AUTO ON WHEN GARAGE DOORS OPEN / AUTO OFF UPON GARAGE DOORS CLOSING AFTER COMPLETION OF WASH CYCLE. MANUAL ON / MANUAL OFF SWITCH OVERRIDE SWITCH LOCATED WITHIN WASHBAY FOR MAINTENANCE.
4	MANUAL ON / AUTO OFF AFTER 30 MINUTES VIA TIMED SWITCH

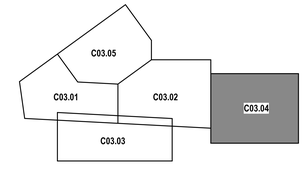
NOTES:

1. LIGHTING CONTROL SHALL MEET INTERNATIONAL ENERGY CONSERVATION CODES. (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 PENETRATION 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 SERVERS BY 0-10V DIMMING DEVICES.



N

1 ELECTRICAL WASH STATION LIGHTING PLAN
1/8" = 1'-0"



KEY MAP

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ELECTRICAL LIGHTING PLAN **ELW100**

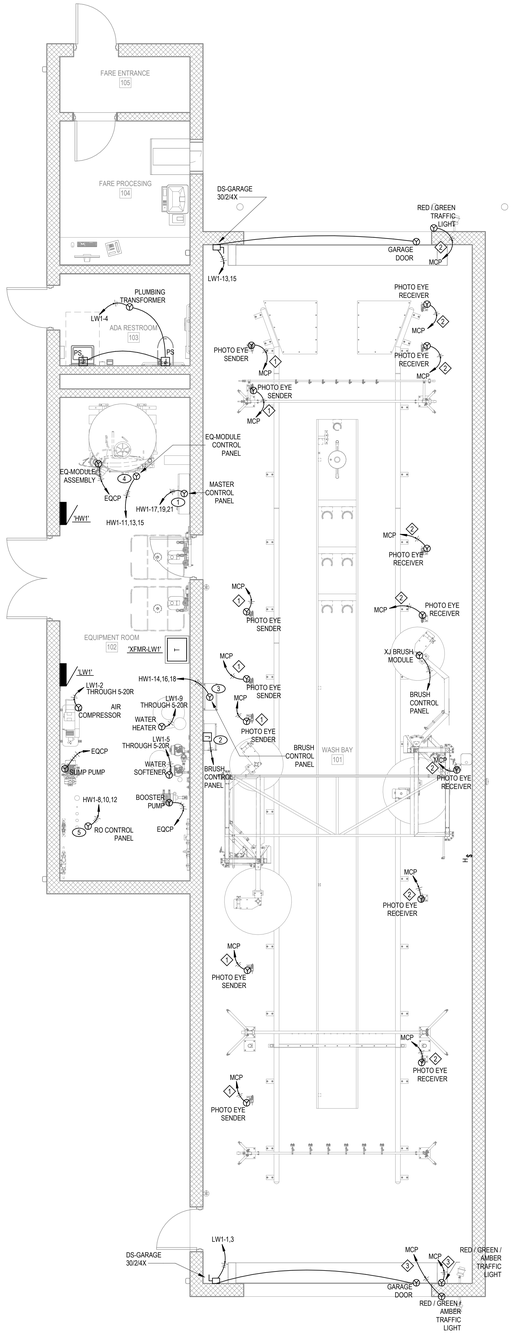
GENERAL NOTES

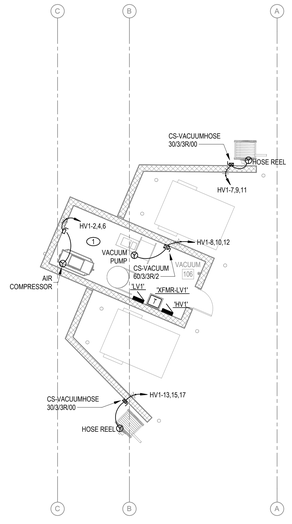
1. COORDINATE FINAL LOCATIONS OF ROUGH-INS FOR INTERCLEAN PROVIDED EQUIPMENT WITH INTERCLEAN DRAWINGS PRIOR TO ROUGH-IN

KEYED NOTES:

1. <Use Assistant to Resolve>
2. ROUGH IN FOR MANUFACTURER-PROVIDED PNEUMATIC PANEL.
3. ROUGH IN FOR MANUFACTURER-PROVIDED BRUSH CONTROL PANEL.
4. ROUGH IN FOR MANUFACTURER-PROVIDED EQ CONTROL PANEL.
5. ROUGH IN FOR MANUFACTURER PROVIDED REVERSE OSMOSIS CONTROL PANEL COORDINATE FINAL LOCATION WITH MANUFACTURER PROVIDED DRAWINGS

CONDUIT SCHEDULE	
ID	FEEDER SIZE
1	2 - #14, 1/2" CONDUIT
2	3 - #14, 1/2" CONDUIT
3	4 - #14, 1/2" CONDUIT





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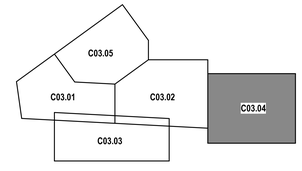
2 VACUUM BUILDING POWER PLAN

1/8" = 1'-0"

N

1 ENLARGED WASH BAY ELECTRICAL EQUIPMENT POWER PLAN

1/4" = 1'-0"



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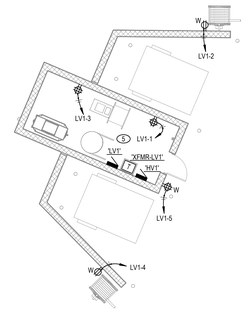
Revisions

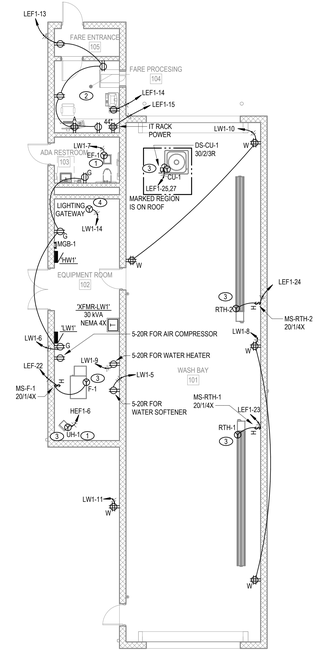
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ELECTRICAL EQUIPMENT POWER PLAN EMW100

KEYED NOTES:

1. DISCONNECT PROVIDED BY MANUFACTURER
2. ALL RECEPTACLES, LIGHTS, EQUIPMENT LOCATED WITHIN FARE PROCESSING AND FAR ENTRANCE SHALL BE FED FROM THE FUEL STATION PANEL LOCATED ON SITE. REFER TO FUEL STATION DRAWINGS FOR ADDITIONAL INFORMATION. POST SIGN NEXT TO PANEL HW1 AND LW1 NOTING ADDITIONAL POWER SOURCE. PLACE SIGN IN FARE PROCESSING ROOM NOTING PANEL AND LOCATION POWER IS SERVED FROM.
3. ALL HVAC EQUIPMENT LOCATED WITHIN THE WASH STATION SHALL BE FED FROM FUEL STATION PANEL LOCATED ON SITE. REFER TO FUEL STATION DRAWINGS FOR ADDITIONAL INFORMATION. POST SIGN NEXT TO PANEL HW1 AND LW1 NOTING ADDITIONAL POWER SOURCE. PLACE SIGN NEAR EQUIPMENT NOTING PANEL AND LOCATION POWER IS SERVED FROM.
4. GATEWAY CONNECTION FOR EXTERIOR LIGHTING CONTROL. NETWORK BACK TO EXTERIOR PHOTOCELL ON MAINTENANCE BUILDING FOR CAMPUS CONTROL
5. DRIVE GROUND ROD AND BOND TO VACUUM BUILDING STEEL TO SERVE VACUUM BUILDING ELECTRICAL EQUIPMENT.

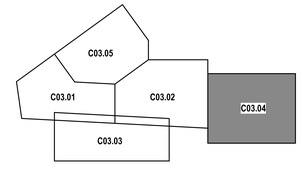




N

1 ELECTRICAL WASH STATION POWER PLAN

1/8" = 1'-0"



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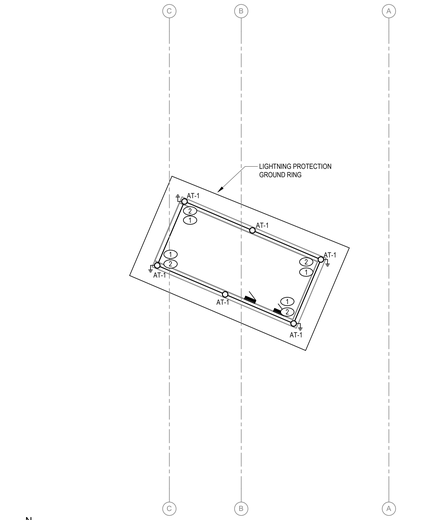
GENERAL ELECTRICAL SCHEDULE		
⏚	GROUND ROD LOCATION	CAT. NO 10T COPPER BONDING WIRE (14 STR., X 17 GA.)

KEYED NOTES:

1. PROVIDE LIGHTNING PROTECTION DOWNLEAD CONDUCTOR VIA ROOF PENETRATION. CONNECT DOWNLEAD CONDUCTOR TO BUILDING STEEL. REFER TO LIGHTNING PROTECTION DETAILS ON SHEET EW502 AND MANUFACTURER'S SHOP DRAWINGS FOR ADDITIONAL INFORMATION. INSTALL 3/4" X 10' COPPER CLAD GROUND ROD FOR CONNECTION TO THE DOWNLEAD CONDUCTOR.
2. CONNECT DOWNLEAD CONDUCTOR TO BUILDING GROUNDING RING.

NOTES:

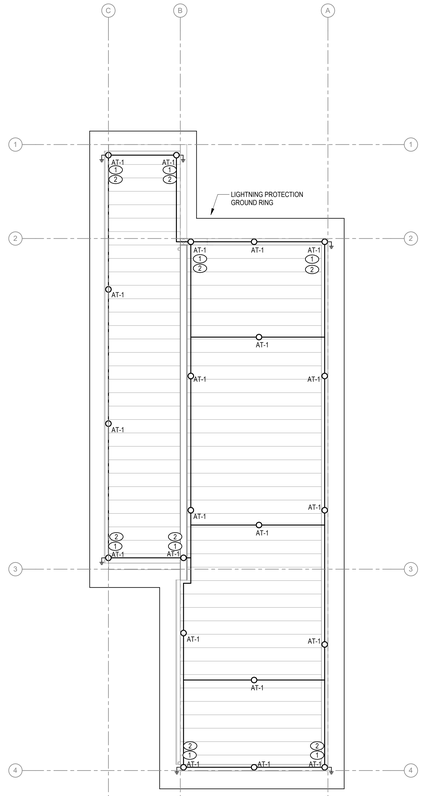
1. REFER TO EA502 FOR LIGHTNING PROTECTION INSTALLATION DETAILS.
2. ALL LIGHTNING PROTECTION DOWN CONDUCTORS SHALL BE ROUTED WITHIN BUILDING WALL, COLUMNS AND UTILITY CHASES. CONCEALED CONDUCTORS SHALL BE INSTALLED IN NONMETALLIC PVC SLEEVES WHERE PASSING THROUGH FLOORS, WALLS AND FOUNDATIONS. BOND ALL 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.



N

2 DUMPSER ENCLOSURE ROOF PLAN

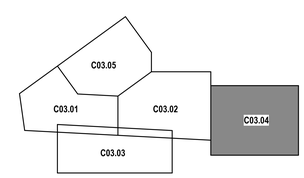
1/8" = 1'-0"



N

C 1 ELECTRICAL ROOF PLAN

1/8" = 1'-0"



KEY MAP

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Johnston, IA 50131
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www.KEDbluestone.com

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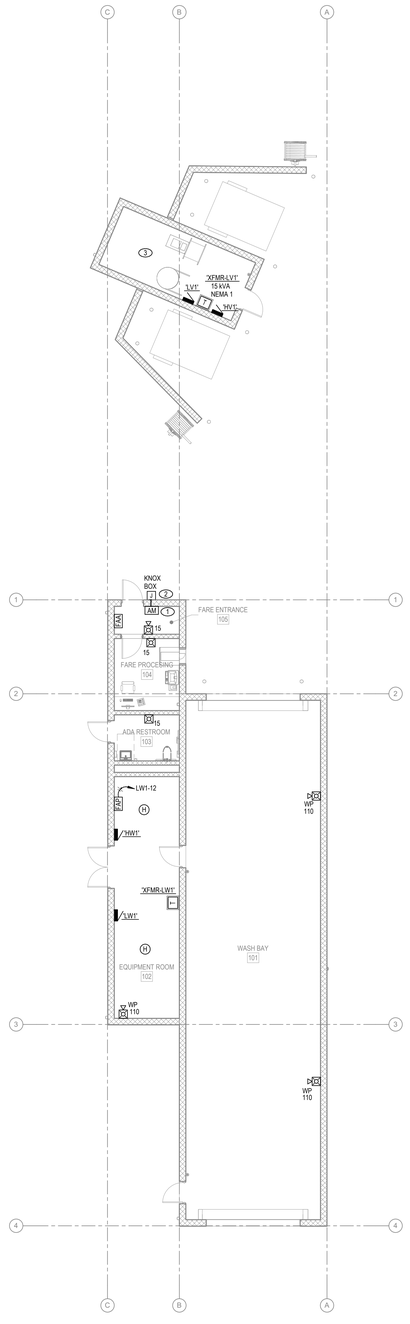
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
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ELECTRICAL ROOF PLAN EPW300

KEYED NOTES:

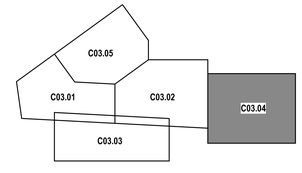
1. CONNECT MONITOR MODULE TO DOOR CONTACT IN KNOX BOX. COORDINATE WITH G.C.
2. KNOX BOX. COORDINATE EXACT LOCATION WITH ARCHITECT AND G.C. PRIOR TO ROUGH-IN.
3. DRIVE GROUND ROD AND BOND TO VACUUM BUILDING STEEL TO SERVE VACUUM BUILDING ELECTRICAL EQUIPMENT.



N

1 ELECTRICAL WASH STATION SYSTEMS PLAN

1/8" = 1'-0"



KEY MAP

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Revisions

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ELECTRICAL SYSTEMS PLAN **EYW100**

PANEL "___#___"

FED FROM "___#___"

(VOLTAGE)

(AIC RATING)

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

ENGINEER: KEDbluestone

CONTRACTOR:

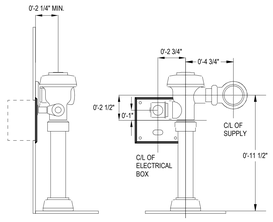
8 PANEL BOARD NAMEPLATE
N.T.S.

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

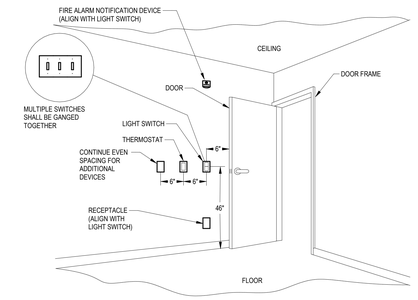
3. NAME PLATE SHALL BE PERMANENTLY ATTACHED TO PANELBOARD. REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE CONSTRUCTION REQUIREMENTS.



7 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.



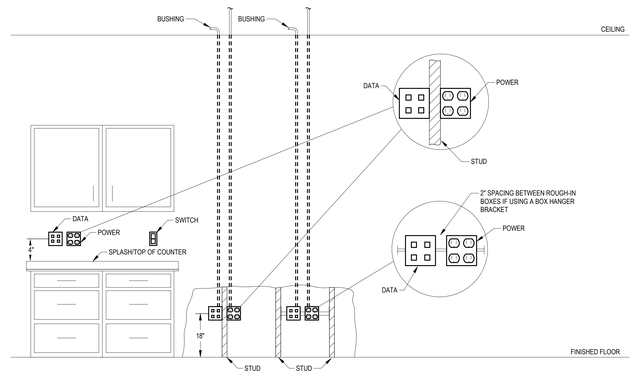
5 ROOM DEVICE MOUNTING ORTHOGRAPHIC DETAIL
N.T.S.

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.

		SYSTEM OUTPUTS																
		FACP ANNUNCIATION						NOTIFICATION				REQUIRED FIRE SAFETY CONTROL						
	SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	ACTUATE VISIBLE & AUDIBLE ALARM ANNUNCIATION	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RELEASE MAGNETICALLY HELD DOORS	ACTUATE IRON DOOR CLOSURE	CLOSE SMOKE DAMPERS ASSOCIATED WITH FIRE RESISTIVE WALLS	UNLOCK EXITS AND CONTROL DOORS	SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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	AREA HEAT DETECTORS	X	X					X	X	X			X			X	

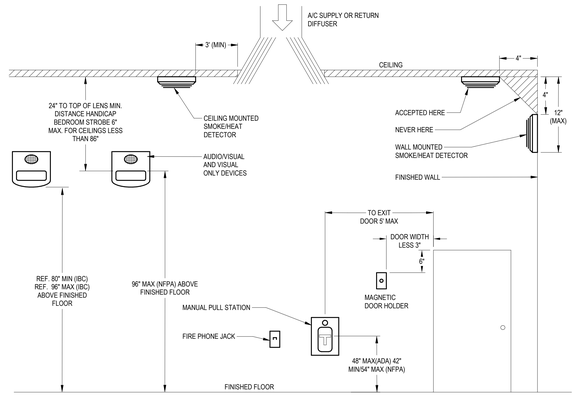
3 FIRE ALARM MATRIX
N.T.S.



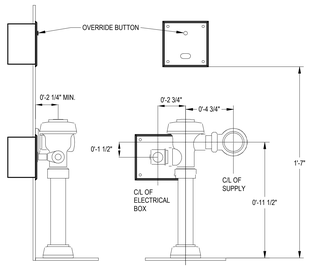
4 SCHEMATIC ELECTRICAL MOUNTING DETAIL
N.T.S.

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.



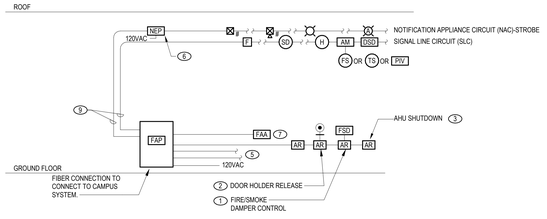
2 FIRE ALARM DEVICE MOUNTING HEIGHT
N.T.S.



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 VENDOR'S 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.



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.

KEYED NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONNECT TO EXISTING 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 EXISTING 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 EXISTING 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. 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.
5. 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.
6. REFER TO EYW100 FOR LOCATION OF GROUND LEVEL ANNUNCIATOR PANEL.
7. REFER TO SPECIFICATIONS FOR SIGNAL AND NOTIFICATION LOOP REQUIREMENTS.

1 ADDRESSABLE FIRE ALARM SYSTEM RISER
N.T.S.

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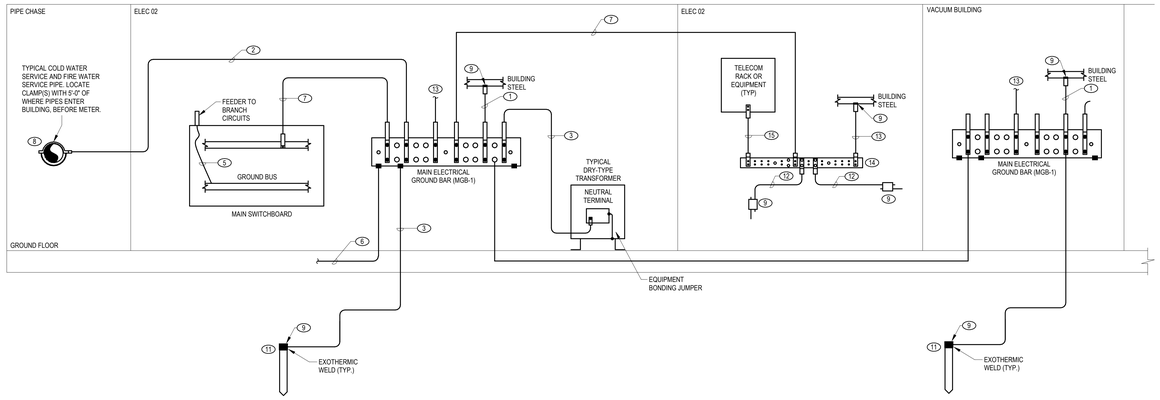
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P: - 309.231.8272

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

Revisions

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

ELECTRICAL DETAILS **EW500**



2 GROUNDING RISER DIAGRAM
N.T.S.

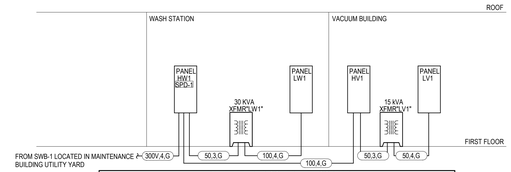
GENERAL NOTES:
1. SEAL ANY HOLES IN EXTERIOR WALLS OR FOUNDATIONS. FINISH TO MATCH SURFACE.
2. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL CONDUCTORS TO BE ROUTED IN CONDUIT UNLESS NOTED OTHERWISE.

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

EQUIPMENT	KEDB DRAWINGS - DEVICE LOCATIONS	EQUIPMENT BY OWNER	INSTALLATION OF EQUIPMENT	INSTALLATION OF CABLE	ROUGH-IN AND PATHWAY INSTALLATION	COMMENTS
TELEPHONE SYSTEM		X				VOIP SYSTEM
WIRELESS ACCESS POINTS - EQUIPMENT	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
WIRELESS ACCESS POINT ROUGH-IN - (1) CAT 6 PLENUM CABLING	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
HORIZONTAL CABLING CAT6 PLENUM CABLE- PHONE/PRINTERS/FAX/ANALOG TYPE CABLE	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
HORIZONTAL CABLING CAT6 PLENUM FOR FLOOR BOX - NETWORK	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
HORIZONTAL CABLING CAT6 PLENUM - CAMERA	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
HORIZONTAL CABLING CAT6 PLENUM - NETWORK	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
TESTING - FIBER AND CAT6A AND LABELING				OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
FIBER DISTRIBUTION CABINET	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
RACK HORIZONTAL MANAGER	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
RJ-45 JACKS AT WORKAREA AND IDF MODULAR PATCH PANEL	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
FACEPLATES	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
MODULAR PATCH PANEL	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
EQUIPMENT RACKS (4POST IN THE MDF AND 2POST IN IDF TYPE WITH VERTICAL /HORIZONTAL MANAGERS)	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
COPPER PATCH CORDS AT RACK	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
COPPER PATCH CORDS AT WORKSTATIONS	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
BACKBONE FIBER OPTIC CABLING -TERMINATIONS BETWEEN THE MDF AND IDF ROOMS	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
FIBER PATH CORDS	X		OWNERS VENDOR	OWNERS VENDOR		OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
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		
ROUTERS, MODEMS, PHONE EQUIPMENT, HANDSETS		X	BY OWNER	BY OWNER		
CONDUITS-J-BOXES					EC	
SERVICE PROVIDER CABLING TO THE MDF -NETWORK	X		SERVICE PROVIDER	SERVICE PROVIDER	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				X	
WIRED BASKET TRAY	X				EC	
MASS NOTIFICATION / PAGING SPEAKERS - INTERIOR AND EXTERIOR	X		OWNERS VENDOR	OWNERS VENDOR	EC	INFORMACAST SYSTEM FOR THE PROJECT
MASS NOTIFICATION / PAGING SYSTEM HEADEND	X		OWNERS VENDOR	OWNERS VENDOR	EC	
ACCESS CONTROL PANEL - LENEL ONGUARD	X		EC	EC	EC	
CARD READERS- DUAL AUTHENTICATIONS	X		EC	EC	EC	
CODE BLUE STATIONS INTERCOM/CAMERA PEDESTALS -CODE BLUE	X		EC	EC	EC	
ELECTRIC LATCH/STRIKES -PROVIDED BY DOOR HARDWARE INTEGRATOR	X		EC	EC	EC	
DOOR CONTACT	X		EC	EC	EC	
LOCKDOWN	X		EC	EC	EC	
REQUEST TO EXIT	X		EC	EC	EC	
PANIC ALARM SWITCHES	X		EC	EC	EC	
CCTV CAMERA SYSTEM - SOFTWARE, CAMERAS LICENSES, AND STORAGE -AVIGILON		X				
CCTV MONITOR -VIEWING STATION 55" TV	X		EC	EC	EC	
CCTV CAMERAS INTERIOR AND EXTERIOR - AVIGILON	X		EC	EC	EC	
WIRELESS CLOCK SYSTEM HEADEND	X		EC	EC	EC	OWNER CHECKING FIRST TO SEE IF ACTUALLY NEEDED. IF NEEDED THEY ARE CHECKING TO SEE IF THIS WILL BE BY THERE VENDOR OR IF IT IT NEEDES TO BE PART OF THE CONSTRUCTION DOCUMENTS
ANALOG WIRELESS CLOCKS - BATTERY TYPE	X		EC	EC	EC	
AREA OF REFUGE MASTER HEADEND AND INTERCOM BUTTON AND WIRING	X		EC	EC	EC	
TV'S AND TV MOUNTS WITH BRIGHT SIGN DIGITAL MEDIA PLAYER -DIGITAL SIGNAGE LOCATIONS, TRANSIT BUS MESSAGE BOARDS	X		EC	EC	EC	
CODE BLUE STATION INTERCOM CAMERA PEDESTAL	X		EC	EC	EC	
TRAINING ROOM AND CONFERENCE ROOM - FLOOR BOXES ONLY	X		EC	EC	EC	
TRAINING ROOM AV SYSTEM -TV'S 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 -TV'S 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
TV'S 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)	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	BY OWNER			

3 TECH RESPONSIBILITY MATRIX
N.T.S.

MINIMUM BRANCH CIRCUIT FEEDER SIZE (RHW, THHW, THW, THWN, XHHW, XHHN, 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"



PANEL FEEDER SCHEDULE - COPPER						
CALL OUT	OCPD RATING	PARALLEL SETS	PHASE	NEUTRAL	GRD	CONDUIT
50,3,G	50	1	#6	-	#10	1"
50,4,G	60	1	#6	#6	#10	1"
100,4,G	100	1	#3	#3	#8	1-1/4"
300V,4,G	300	1	500KCM	500KCM	#4	4"

1 ELECTRICAL VEHICLE WASH RISER
N.T.S.

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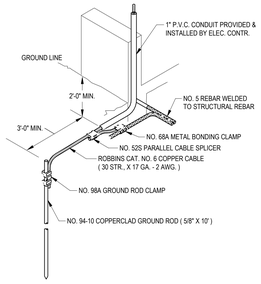
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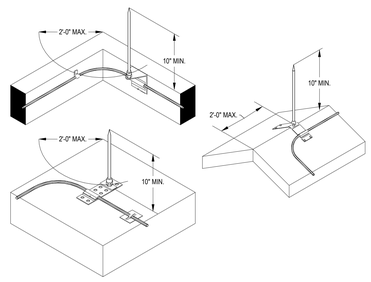
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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ELECTRICAL DETAILS **EW501**



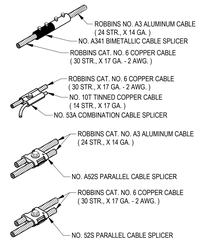
10 REBAR BOND & GROUNDING CONNECTION DETAIL
N.T.S.



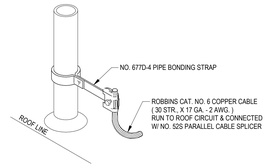
9 PLACEMENT OF AIR TERMINAL ON OUTSIDE CORNERS
N.T.S.

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.



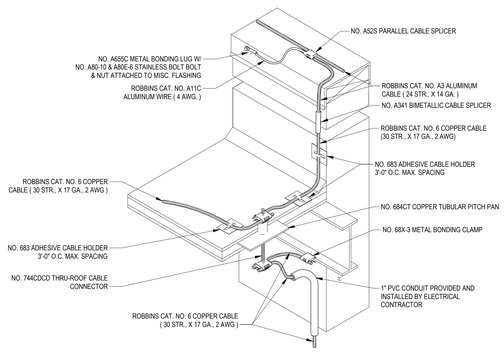
8 SPLICER DETAIL
N.T.S.



7 ROOF VENT DETAIL
N.T.S.

NOTES:

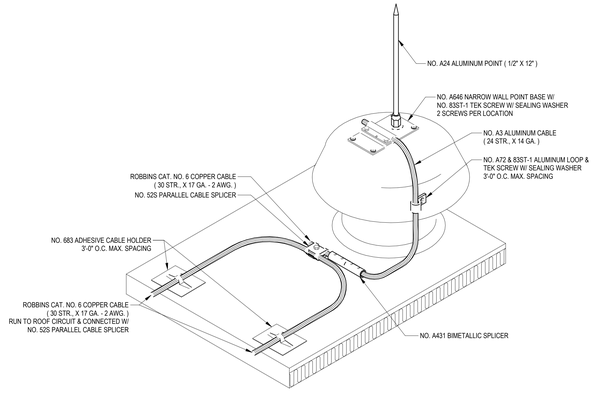
1. METAL V.T.R. WITHIN 6' OF A.L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION



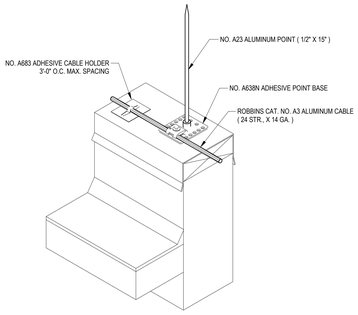
6 LASHING BOND, THRU ROOF, STEEL BOND & DOWNLEAD
N.T.S.

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.

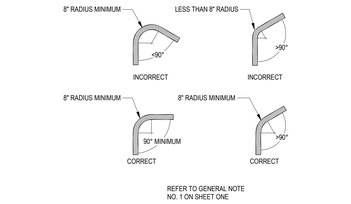
NOTES:

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.

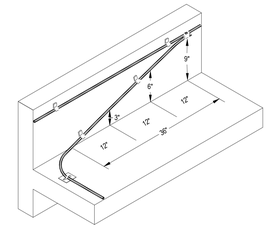
NOTES:

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.



1 3 TO 12 CABLE RISER ELEVATION
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.

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Revisions

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ELECTRICAL DETAILS **EW502**

GENERAL ELECTRICAL SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER
	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
PANEL 'HW1', 'HV1'	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 'LW1', 'LV1'	BRANCH CIRCUIT PANELBOARD, 208/120V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO PANEL SCHEDULES FOR DETAILS	SQUARE D NQ OR PREAPPROVED EQUAL
'XFMR-LW1'	DRY-TYPE TRANSFORMER, DOE 2016 COMPLIANT, 30 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 EXN30T3H OR PREAPPROVED EQUAL
'XFMR-LV1'	DRY-TYPE TRANSFORMER, DOE 2016 COMPLIANT, 15 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 EXN15T3H OR PREAPPROVED EQUAL
SPD-1	SURGE PROTECTION DEVICE, EXTERNALLY MOUNTED, NON-MODULAR BRICK, 480/277 V, 3-PHASE, 4-WIRE + GRD SERVICE, 200 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
VFD-XX	VARIABLE FREQUENCY DRIVE	PROVIDED BY ATC, INSTALLED BY EC
LIGHTING RELAY PANEL 'XXX'	LIGHTING RELAY PANEL, FEED-THRU TYPE, (8) 20A/1P RATED RELAYS, EXTERIOR PHOTO CELL INPUT, REFER TO SPECIFICATION 260923, SERVES EXTERIOR BUILDING-MOUNTED LIGHTING AND HANGAR HIGH-BAY LIGHTING	CURRENT NX CONTROLS WATTSTOPPER DLM ACUITY NLIGHT OR PREAPPROVED EQUAL
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
S_H	MANUAL TOGGLE DISCONNECT SWITCH, HORSE-POWER RATED	SQUARE D OR PREAPPROVED EQUAL

NOT ALL SYMBOLS/NOTES ARE USED

FIRE ALARM DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MODEL
AM	ADDRESSABLE MONITOR MODULE, LED INDICATOR, SUPERVISION OF NORMALLY OPEN OR NORMALLY CLOSED CONTACT DEVICE	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
SD	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
	FIRE ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 4-WIRE, 'A' 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, 'A' IDENTIFIES CANDELA RATING: 15, 30, 75, 110, NEMA 4X RATED, STAINLESS STEEL MOUNTING HARDWARE	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, WALL MOUNTED, WHITE HOUSING WITH "FIRE" MARKING, 2-WIRE, 'A' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
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

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
NO SUBSCRIPT	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL HBL5362 LEVITON PASS & SEYMOUR COOPER
NO SUBSCRIPT	DUPLEX RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL (2) HBL5362 LEVITON PASS & SEYMOUR COOPER
G	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE, NEMA 5-20R	HUBBELL GFRS352ST LEVITON PASS & SEYMOUR COOPER
A	DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL (2) HBL5362 LEVITON PASS & SEYMOUR COOPER

SWITCH SUBSCRIPT SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
	SINGLE POLE SWITCH, COMMERCIAL GRADE, 20 AMP	WATTSTOPPER CS20ACTW OR PREAPPROVED EQUAL
3	SINGLE POLE THREE WAY SWITCH, COMMERCIAL GRADE, 20 AMP	WATTSTOPPER CS20ACTW 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 LMPW-101 ACUITY NLIGHT OR PREAPPROVED EQUAL
T	SPRING WOUND TIME SWITCH, 0-60 MINUTES, COMMERCIAL GRADE, 20 AMP	MARK TIME PARAGON TORK OR PREAPPROVED EQUAL

ELECTRICAL CONNECTION SCHEDULE

CALLOUT	LOAD CHARACTERISTICS						PANEL AND CIRCUIT INFORMATION				NOTES
	VOLTAGE	PHASE	VA	AMPS	MCA	LOAD CLASS	FED FROM	CIRCUIT	MOCP	CONDUIT & WIRE	
AIR COMPRESSOR	480 V	3	3533 VA	4.2 A	4.2 A	HVAC	HV1	2,4,6	20/3	3/4"C, 3#12, #12N, #12G	
BRUSH CONTROL PANEL	480 V	3	15588 VA	18.7 A	18.7 A	HVAC	HW1	14,16,18	30/3	3/4"C, 3#10, #10N, #10G	
CU-1	208 V	1	3962 VA	19.0 A	19.0 A	HVAC	LEF1	25,27	30/2	3/4"C, 2#10, #10N, #10G	
EF-1	120 V	1	8 VA	0.1 A	0.1 A	HVAC	LW1	7	20/1	3/4"C, 1#12, #12N, #12G	
EQ-MODULE CONTROL PANEL	480 V	3	59236 VA	71.2 A	71.2 A	HVAC	HW1	11,13,15	90/3	1-1/4"C, 3#2, #2N, #6G	
F-1	120 V	1	200 VA	1.7 A	1.7 A	HVAC	LEF1	22	20/1	3/4"C, 1#12, #12N, #12G	
GARAGE DOOR	208 V	1	3500 VA	16.8 A	16.8 A	HVAC	LW1	13,15	30/2	3/4"C, 2#10, #10N, #10G	
GARAGE DOOR	208 V	1	3500 VA	16.8 A	16.8 A	HVAC	LW1	1,3	30/2	3/4"C, 2#10, #10N, #10G	
HOSE REEL	480 V	3	1143 VA	1.4 A	1.4 A	Motor	HV1	7,9,11	20/3	3/4"C, 3#12, #12N, #12G	
HOSE REEL	480 V	3	1143 VA	1.4 A	1.4 A	Motor	HV1	13,15,17	20/3	3/4"C, 3#12, #12N, #12G	
LIGHTING GATEWAY	120 V	1	200 VA	1.7 A	0.0 A	HVAC	LW1	14	20/1	3/4"C, 1#12, #12N, #12G	
MASTER CONTROL PANEL	480 V	3	28059 VA	33.7 A	33.7 A	HVAC	HW1	17,19,21	50/3	1"C, 3#6, #6N, #10G	
PLUMBING TRANSFORMER	120 V	1	50 VA	0.4 A	0.4 A	HVAC	LW1	4	20/1	3/4"C, 1#12, #12N, #12G	
RO CONTROL PANEL	480 V	3	12470 VA	15.0 A	15.0 A	HVAC	HW1	8,10,12	20/3	3/4"C, 3#12, #12N, #12G	
RTH-1	120 V	1	720 VA	6.0 A	6.0 A	HVAC	LEF1	23	20/1	3/4"C, 1#12, #12N, #12G	
RTH-2	120 V	1	720 VA	6.0 A	6.0 A	HVAC	LEF1	24	20/1	3/4"C, 1#12, #12N, #12G	
UH-1	277 V	1	4404 VA	15.9 A	15.9 A	HVAC	HEF1	6	20/1	3/4"C, 1#12, #12N, #12G	
VACUUM PUMP	480 V	3	28059 VA	33.7 A	33.7 A	Motor	HV1	8,10,12	50/3	1"C, 3#6, #6N, #10G	

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / MODEL	FINISHES	LIGHT SOURCE	MOUNTING	DELIVERED LUMENS	CRI	CCT	DIMMING	WATTS	VOLTAGE	EMERGENCY BACK-UP
E1	INDOOR LED EMERGENCY LIGHTING UNIT, TWO ADJUSTABLE HEADS, SELF-TEST/SELF-DIAGNOSTICS, THERMOPLASTIC HOUSING	LITHONIA / ELM6L OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	N/A	80	6500 K	N/A	3 W	277	BATTERY
F1	2'X2' LED FLAT PANEL, BACK LIT, MEDIUM SETTING	LITHONIA / CPANL OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	4200	80	3500 K	N/A	30 W	277	N/A
F4A	4' SUSPENDED UTILITY STRIP LIGHT, DIRECT LIGHTING DISTRUBUTION, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS	HE WILLIAMS / 75L OR PREAPPROVED EQUAL	WHITE	LED	SUSPENDED	3800	80	4000 K	N/A	31 W	277	N/A
F5	6" APERTURE, 8' LONG, WALL MOUNT VAPORTIGHT FIXTURE, DIRECT LIGHTING DISTRUBUTION, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS, STAINLESS STEEL MOUNTING HARDWARE, FULLY GASKETED AND SEALED, IP66 RATED	LITHONIA / FEM OR PREAPPROVED EQUAL	WHITE	LED	WALL 16' AFF	9000	80	4000 K	N/A	53 W	277	N/A
F5E	SIMILAR TO F5, BUT WITH INTEGRAL EMERGENCY BATTERY	LITHONIA / FEM OR PREAPPROVED EQUAL	WHITE	LED	WALL 16' AFF	9000	80	4000 K	N/A	53 W	277	BATTERY
F6A	2' VANITY LIGHT, DAMP LOCATION LISTED, FROSTED RECTILINEAR LENS	COLUMBIA / CVM2 OR PREAPPROVED EQUAL	WHITE	LED	WALL 6' 6" AFF	1500	80	3500 K	N/A	18 W	277	N/A
F9	4" DIAMETER OPEN DOWNLIGHT, SPECIFICATION GRADE	ALPHABET / NU4 OR PREAPPROVED EQUAL	FLANGED WHITE, SPECULAR	LED	RECESSED	2095	80	3500 K	N/A	17 W	277	N/A
W1	MULLION MOUNTED VANDAL RESISTANT EXTERIOR WALLPACK, ALUMINUM CONSTRUCTION, UL WET LOCATION LISTED	LUMINAIRE LED / BLADE OR PREAPPROVED EQUAL	BLACK	LED	WALL	2006	80	4000 K	N/A	20 W	277	BATTERY
W2	EXTERIOR WALL PACK, ALUMINUM CONSTRUCTION, UL WET LOCATION LISTED	BEACON / VIPER WALL OR PREAPPROVED EQUAL	BLACK	LED	WALL	6000	80	4000 K	N/A	45 W	277	N/A
X1	EXIT SIGN, SINGLE SIDED, THERMOPLASTIC HOUSING, SELF-TESTING/SELF-DIAGNOSTICS	LITHONIA / LQM OR PREAPPROVED EQUAL	WHITE HOUSING WITH RED LETTERING	LED	WALL	N/A	80	6000 K	N/A	3 W	277	BATTERY

BRANCH PANELBOARD: HW1

LOCATION: EQUIPMENT ROOM 102
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: SWB-1
VOLTAGE: 480/277 Wye
PHASE: 3
WIRE: 4
LUGS: Standard
MAIN DEVICE: MCB 300AT, 400AF
BUS RATING: 400
NEUTRAL RATING: 100%
A.I.C. RATING: 25000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	KVA LOAD 'PHASE A'		KVA LOAD 'PHASE B'		KVA LOAD 'PHASE C'		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1					12	4.6									2
3	100 A	3		HV1			11.8	4.5			XFMR-LW1		3	125 A	4
5									11.7	1.7					6
7	20 A	1		LIGHTING	0.9	4.2									8
9	20 A	1		Lighting - Interior			0.4	4.2			RO CONTROL PANEL		3	20 A	10
11									19.7	4.2					12
13	90 A	3		EQ-MODULE CONTROL PANEL	19.7	5.2									14
15							19.7	5.2			BRUSH CONTROL PANEL		3	30 A	16
17									9.4	5.2					18
19	50 A	3		MASTER CONTROL PANEL	9.4	0					SPARE		1	20 A	20
21							9.4	0			SPARE		1	20 A	22
23									0	0	SPARE		1	20 A	24
25	30 A	3		SPD-1	0	0					SPARE		1	20 A	26
27							0	0			SPARE		1	20 A	28
29	20 A	1		SPARE					0	0	SPARE		1	20 A	30
31	20 A	1		SPARE	0	0					SPARE		1	20 A	32
33	20 A	1		SPARE			0	0			SPARE		1	20 A	34
35	--	1		SPACE					--	--	SPACE		1	--	36
37	--	1		SPACE	--	--					SPACE		1	--	38
39	--	1		SPACE			--	--			SPACE		1	--	40
41	--	1		SPACE					--	--	SPACE		1	--	42
				TOTAL CONNECTED KVA BY PHASE	55.9 kVA		55.1 kVA		51.8 kVA						
				TOTAL CONNECTED AMPS BY PHASE	203.5 A		200.7 A		186.9 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS	
HVAC	126684 VA	100.00%	126684 VA		
LIGHTING	1081 VA	100.00%	1081 VA	**TOTAL CONNECTED KVA**	162.7 kVA
Motor	30345 VA	123.12%	37360 VA	**TOTAL CALCULATED KVA**	169.8 kVA
Other	600 VA	100.00%	600 VA		
RECEPTACLE	3780 VA	100.00%	3780 VA	**TOTAL CONNECTED AMPS**	195.7 A
Lighting - Interior	350 VA	125.00%	438 VA	**TOTAL CALCULATED AMPS**	204.3 A

NOTES:

BRANCH PANELBOARD: LW1

LOCATION: EQUIPMENT ROOM 102
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: XFMR-LW1
VOLTAGE: 208/120 Wye
PHASE: 3
WIRE: 4
LUGS: Standard
MAIN DEVICE: MCB 100A
BUS RATING: 100
NEUTRAL RATING: 100%
A.I.C. RATING: 10000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	KVA LOAD 'PHASE A'		KVA LOAD 'PHASE B'		KVA LOAD 'PHASE C'		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1	30 A	2		GARAGE DOOR	1.8	0.2					AIR COMPRESSOR		1	20 A	2
3							1.8	0.1			PLUMBING TRANSFORMER		1	20 A	4
5	20 A	1		WATER SOFTENER					0.2	0.5	RECEPTACLE		1	20 A	6
7	20 A	1		EF-1	0	0.7					RECEPTACLE		1	20 A	8
9	20 A	1		WATER HEATER			0.2	0.7			RECEPTACLE		1	20 A	10
11	20 A	1		RECEPTACLE					0.4	0.6	Other	HL	1	20 A	12
13	30 A	2		GARAGE DOOR	1.8	0.2					LIGHTING GATEWAY		1	20 A	14
15							1.8	0			SPARE		1	20 A	16
17	20 A	1		SPARE					0	0	SPARE		1	20 A	18
19	20 A	1		SPARE	0	0					SPARE		1	20 A	20
21	20 A	1		SPARE			0	0			SPARE		1	20 A	22
23	20 A	1		SPARE					0	0	SPARE		1	20 A	24
25	20 A	1		SPARE	0	0					SPARE		1	20 A	26
27	20 A	1		SPARE			0	0			SPARE		1	20 A	28
29	20 A	1		SPARE					0	0	SPARE		1	20 A	30
31	20 A	1		SPARE	0	0					SPARE		1	20 A	32
33	20 A	1		SPARE			0	--			SPACE		1	--	34
35	--	1		SPACE					--	--	SPACE		1	--	36
37	--	1		SPACE	--	--					SPACE		1	--	38
39	--	1		SPACE			--	--			SPACE		1	--	40
41	--	1		SPACE					--	--	SPACE		1	--	42
				TOTAL CONNECTED KVA BY PHASE	4.6 kVA		4.5 kVA		1.7 kVA						
				TOTAL CONNECTED AMPS BY PHASE	42 A		40.6 A		14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS	
HVAC	7798 VA	100.00%	7798 VA		
Other	600 VA	100.00%	600 VA	**TOTAL CONNECTED KVA**	10.7 kVA
RECEPTACLE	2340 VA	100.00%	2340 VA	**TOTAL CALCULATED KVA**	10.7 kVA
				TOTAL CONNECTED AMPS	29.8 A
				TOTAL CALCULATED AMPS	29.8 A

NOTES:

BRANCH PANELBOARD: HV1

LOCATION: VACUUM 106
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: HW1
VOLTAGE: 480/277 Wye
PHASE: 3
WIRE: 4
LUGS: Standard
MAIN DEVICE: MCB 100A
BUS RATING: 100
NEUTRAL RATING: 100%
A.I.C. RATING: 10000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	KVA LOAD 'PHASE A'		KVA LOAD 'PHASE B'		KVA LOAD 'PHASE C'		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1					0.5	1.2									2
3	25 A	3		XFMR-LV1			0.5	1.2			AIR COMPRESSOR		3	20 A	4
5									0.4	1.2					6
7					0.4	9.4									8
9	20 A	3		HOSE REEL			0.4	9.4			VACUUM PUMP		3	50 A	10
11									0.4	9.4					12
13					0.4	0.1					LIGHTING		1	20 A	14
15	20 A	3		HOSE REEL			0.4	0			SPARE		1	20 A	16
17									0.4	0	SPARE		1	20 A	18
19	20 A	1		SPARE	0	0					SPARE		1	20 A	20
21	20 A	1		SPARE			0	0			SPARE		1	20 A	22
23	20 A	1		SPARE					0	0	SPARE		1	20 A	24
25	20 A	1		SPARE	0	0					SPARE		1	20 A	26
27	--	1		SPACE			--	--			SPACE		1	--	28
29	--	1		SPACE					--	--	SPACE		1	--	30
31	--	1		SPACE	--	--					SPACE		1	--	32
33	--	1		SPACE			--	--			SPACE		1	--	34
35	--	1		SPACE					--	--	SPACE		1	--	36
37	--	1		SPACE	--	--					SPACE		1	--	38
39	--	1		SPACE			--	--			SPACE		1	--	40
41	--	1		SPACE					--	--	SPACE		1	--	42
				TOTAL CONNECTED KVA BY PHASE	12 kVA		11.8 kVA		11.7 kVA						
				TOTAL CONNECTED AMPS BY PHASE	43.3 A		42.8 A		42.1 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS	
HVAC	3533 VA	100.00%	3533 VA		
LIGHTING	145 VA	100.00%	145 VA	**TOTAL CONNECTED KVA**	35.4 kVA
Motor	30345 VA	123.12%	37360 VA	**TOTAL CALCULATED KVA**	42.5 kVA
RECEPTACLE	1440 VA	100.00%	1440 VA		
				TOTAL CONNECTED AMPS	42.6 A
				TOTAL CALCULATED AMPS	51.1 A

NOTES:

BRANCH PANELBOARD: LV1

LOCATION: VACUUM 106
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: XFMR-LV1
VOLTAGE: 208/120 Wye
PHASE: 3
WIRE: 4
LUGS: Standard
MAIN DEVICE: MCB 50AT, 100AF
BUS RATING: 100
NEUTRAL RATING: 100%
A.I.C. RATING: 10000

CKT #	CKT BKR A / P		NOTES	CIRCUIT DESCRIPTION	KVA LOAD 'PHASE A'		KVA LOAD 'PHASE B'		KVA LOAD 'PHASE C'		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A		CKT #
1	20 A	1		RECEPTACLE	0.4	0.2					RECEPTACLE		1	20 A	2
3	20 A	1		RECEPTACLE			0.4	0.2			RECEPTACLE		1	20 A	4
5	20 A	1		RECEPTACLE					0.4	0	SPARE		1	20 A	6
7	20 A	1		SPARE	0	0					SPARE		1	20 A	8
9	20 A	1		SPARE			0	0			SPARE		1	20 A	10
11	20 A	1		SPARE					0	0	SPARE		1	20 A	12
13	20 A	1		SPARE	0	0					SPACE		1	--	14
15	20 A	1		SPARE			0	0			SPACE		1	--	16
17	--	1		SPACE					--	--	SPACE		1	--	18
19	--	1		SPACE	--	--					SPACE		1	--	20
21	--	1		SPACE			--	--			SPACE		1	--	22
23	--	1		SPACE					--	--	SPACE		1	--	24
25	--	1		SPACE	--	--					SPACE		1	--	26
27	--	1		SPACE			--	--			SPACE		1	--	28
29	--	1		SPACE					--	--	SPACE		1	--	30
31	--	1		SPACE	--	--					SPACE		1	--	32
33	--	1		SPACE			--	--			SPACE		1	--	34
35	--	1		SPACE					--	--	SPACE		1	--	36
37	--	1		SPACE	--	--					SPACE		1	--	38
39	--	1		SPACE			--	--			SPACE		1	--	40
41	--	1		SPACE					--	--	SPACE		1	--	42
				TOTAL CONNECTED KVA BY PHASE	0.5 kVA		0.5 kVA		0.4 kVA						
				TOTAL CONNECTED AMPS BY PHASE	4.7 A		4.7 A		3 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS	
RECEPTACLE	1440 VA	100.00%	1440 VA		
				TOTAL CONNECTED KVA	1.4 kVA
				TOTAL CALCULATED KVA	1.4 kVA
				TOTAL CONNECTED AMPS	4 A
				TOTAL CALCULATED AMPS	4 A

NOTES:

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Discipline

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 PUISHBUTTON
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
LW	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		

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
	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
M	MOTION DETECTOR
OPTURN-#	OPTICAL TURNSTILE
REX	REQUEST TO EXIT
BR	BIOMETRIC READER
DS#	DOOR SWITCH

CELLULAR SYMBOLS

SYMBOL	DESCRIPTION
IBTS RF	INDOOR CELLULAR ENHANCEMENT ANTENNA
ODTS RF	OUTDOOR CELLULAR ENHANCEMENT ANTENNA
ICRFS	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
	LECTURN
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
AV	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
DA-1	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 CD	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 A	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

TW000	TECHNOLOGY COVER PAGE
TW100	TECHNOLOGY PLAN
TW500	TECHNOLOGY DETAILS
TW501	TECHNOLOGY DETAILS
TW600	TECHNOLOGY SCHEDULES

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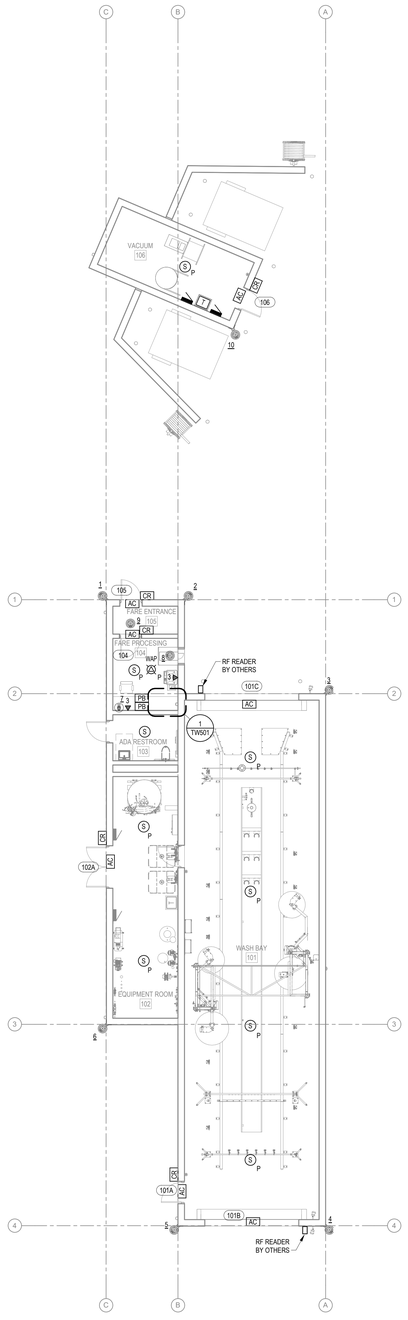
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TECHNOLOGY COVER PAGE TW000

GENERAL NOTES:

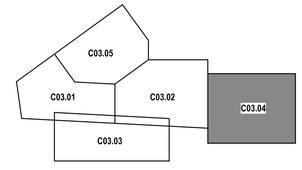
1. INFORMATION OUTLETS ON THIS SHEET SHALL BE FED OUT OF 104.
2. OWNER TO ARRANGE AND CONDUCT THEIR OWN WIRELESS SURVEY AFTER CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE IF ANY ADDITIONAL LOCATIONS ARE REQUIRED AFTER SURVEY IS COMPLETED.
3. MASS NOTIFICATION SYSTEM CONSISTS OF AMPLIFIER, CABLING, AND 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.



N

1 TECHNOLOGY PLAN

1/8" = 1'-0"



KEY MAP

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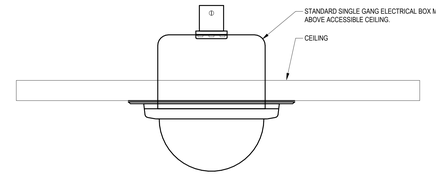
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TECHNOLOGY PLAN **TW100**

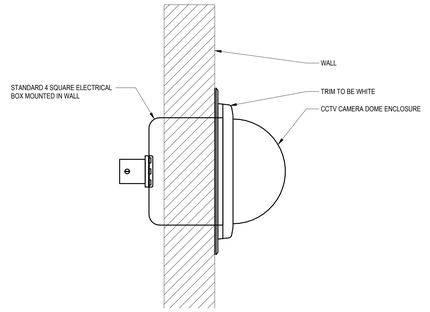


3 CEILING CAMERA MOUNTING DETAIL

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.

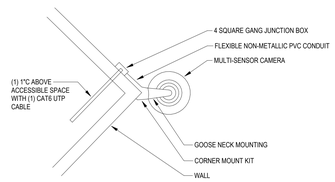


2 WALL MOUNT CAMERA DETAIL

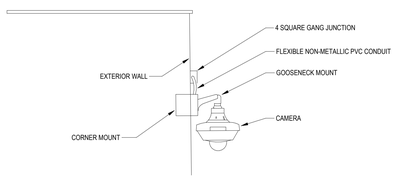
N.T.S.

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.



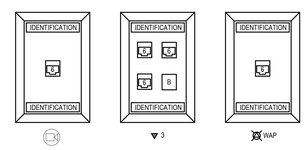
TOP ELEVATION



SIDE ELEVATION

4 EXTERIOR CAMERA CORNER WALL MOUNT

N.T.S.



INFORMATION OUTLET JACK LEGEND

SYMBOL	DESCRIPTION	MODEL #
0	BLANK MODULE	ROUGH-IN ONLY EQUIPMENT PROVIDED/INSTALLED BY OWNERS CONTRACTOR
	CAT6 RJ-45 JACK #= QUANTITY OF DATA ALL ARE DATA UNLESS NOTED OTHERWISE	ROUGH-IN ONLY EQUIPMENT PROVIDED/INSTALLED BY OWNERS CONTRACTOR
	1 DATA JACK FOR CCTV SYSTEM	ROUGH-IN ONLY EQUIPMENT PROVIDED/INSTALLED BY OWNERS CONTRACTOR
#	INFORMATION OUTLET ADAPTER - 4 PORT MOUNTED IN FLOORBOX PROVIDED BY OTHERS. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	ROUGH-IN ONLY EQUIPMENT PROVIDED/INSTALLED BY OWNERS CONTRACTOR
WAP	CEILING WIRELESS ACCESS POINT: (1) CEILING SURFACE MOUNTED BOX SHALL BE SECURELY SUPPORTED ABOVE CEILING.	ROUGH-IN ONLY EQUIPMENT PROVIDED/INSTALLED BY OWNERS CONTRACTOR

1 INFORMATION OUTLET DETAIL

N.T.S.

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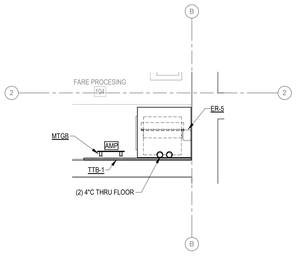
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TECHNOLOGY DETAILS TW500

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/PRINTER/SFAX/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+JBOXES					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	[SHT 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 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 -SIR RM 124, DEPUTY DIR RM 126, DIV MAN RM 128, FIN RM 127, ACCNT RM 129, CONF RM 129, TRAIN RM 102, CHIEF SAFETY RM 140, SAFETY MAN RM 106, DISPATCH RM 101,RADIO RM 152 & 153, CALL CNTR RM 155, MEET RM 201. MAINT BLDG: BREAK RM 102, FACILITY MAN RM 104, MAIN MAN RM 102. 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	



N

1 ENLARGED FARE PROCESSING 104 EQUIPMENT PLAN

1/2" = 1'-0"

NOTES:

1. REFER TO 1/TW600 FOR RACK ELEVATION.

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Revisions

PROJECT NO. 2613
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DATE 10/22/2026
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TECHNOLOGY DETAILS TW501

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	NW CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
2	N CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
3	NE CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
4	SE CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
5	S CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
6	SW CORNER	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.
7	FARE PROCESSING 104	AVIGILON ALTA H6M - WALL MOUNT	FIXED DOME CAMERAS	8'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/TW500 FOR WALL MOUNT CAMERA DETAIL.
8	VAULT CAMERA	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	8'-6"		11 13/16"	8'-6 3/8"				REFER TO 3/TW500 FOR CEILING MOUNT CAMERA DETAIL.
9	FARE ENTRANCE 105	AVIGILON ALTA H5A - PENDANT MOUNT	MULTISENSOR DOME	8'-6"		11 13/16"	8'-6 3/8"				REFER TO 3/TW500 FOR CEILING MOUNT CAMERA DETAIL.
10	VACUUM 106 EXTERIOR	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR CAMERA	15'-0"		11 13/16"	8'-6 3/8"				REFER TO 4/TW500 FOR CORNER MOUNT CAMERA DETAIL.

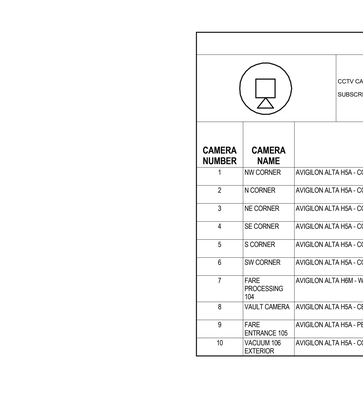
DOOR SCHEDULE

REFER TO ###### 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#)
101A	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	0
101B	No	Yes	No	No	No	No	No	No	No	No	No	No	0	0
101C	No	Yes	Yes	No	No	No	No	No	No	No	No	No	0	0
102A	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	0
104	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	0
105	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	0
106	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	0	0

ACCESS CONTROL SCHEDULE

SYMBOL	DESCRIPTION	MODEL
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.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
ES	ELECTRIC STRIKE - CONCEALED WITH TAMPER REISSTANT 24 VAC.	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. [WIRELESS DEVICE] 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



1 WALL RACK ELEVATION DETAIL
N.T.S.

NETWORK SCHEDULE

LABEL	DESCRIPTION	MODEL
ER-5	EQUIPMENT NETWORK WALL RACK, SWING TYPE 24"HX24"DX24"W, BLACK, 19RU	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, MULTIMODE FIBER COMBINATION SHELF FOR 24 LC TERMINATIONS. 1RU	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MPP-1	FLAT MODULAR PATCH PANEL 24 PORT	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MTGB	PRE-ASSEMBLED BUS COPPER GROUND BAR.	PANDUIT GB2B0312TP1-1 NEWTON INSTRUMENTS ERICO STORM COPPER COMPONENTS GEORGIA COPPER OR AN APPROVED EQUAL
PS-1	POWER STRIP 20A, 5-15P, MOUNTED HORIZONTAL IN RACK.	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
TTB-1	TELECOMMUNICATION TERMINAL BOARD; 3/4" PLYWOOD 4' X 8', PAINTED WHITE WITH FIRE RETARDANT PAINT.	
WM-1	WIRE MANAGEMENT HORIZONTAL 2 RACK UNITS	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING

MASS NOTIFICATION SCHEDULE

SYMBOL	DESCRIPTION	MODEL
AMP	MASS NOTIFICATION AMPLIFIER WALL MOUNTED, TELEPHONE ACCESS MODULE	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE 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" INDICATES PENDANT TYPE SPEAKER.	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING

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