

CONTRACT DRAWINGS FOR:

# GILTZ & ASSOCIATES, INC. BOX HANGAR PROJECT

**AIRPORT ROAD  
FERNANDINA BEACH MUNICIPAL AIRPORT  
CITY OF FERNANDINA BEACH, FLORIDA**

- **THREE UNIT BOX HANGAR BUILDING**

**JANUARY, 2020**

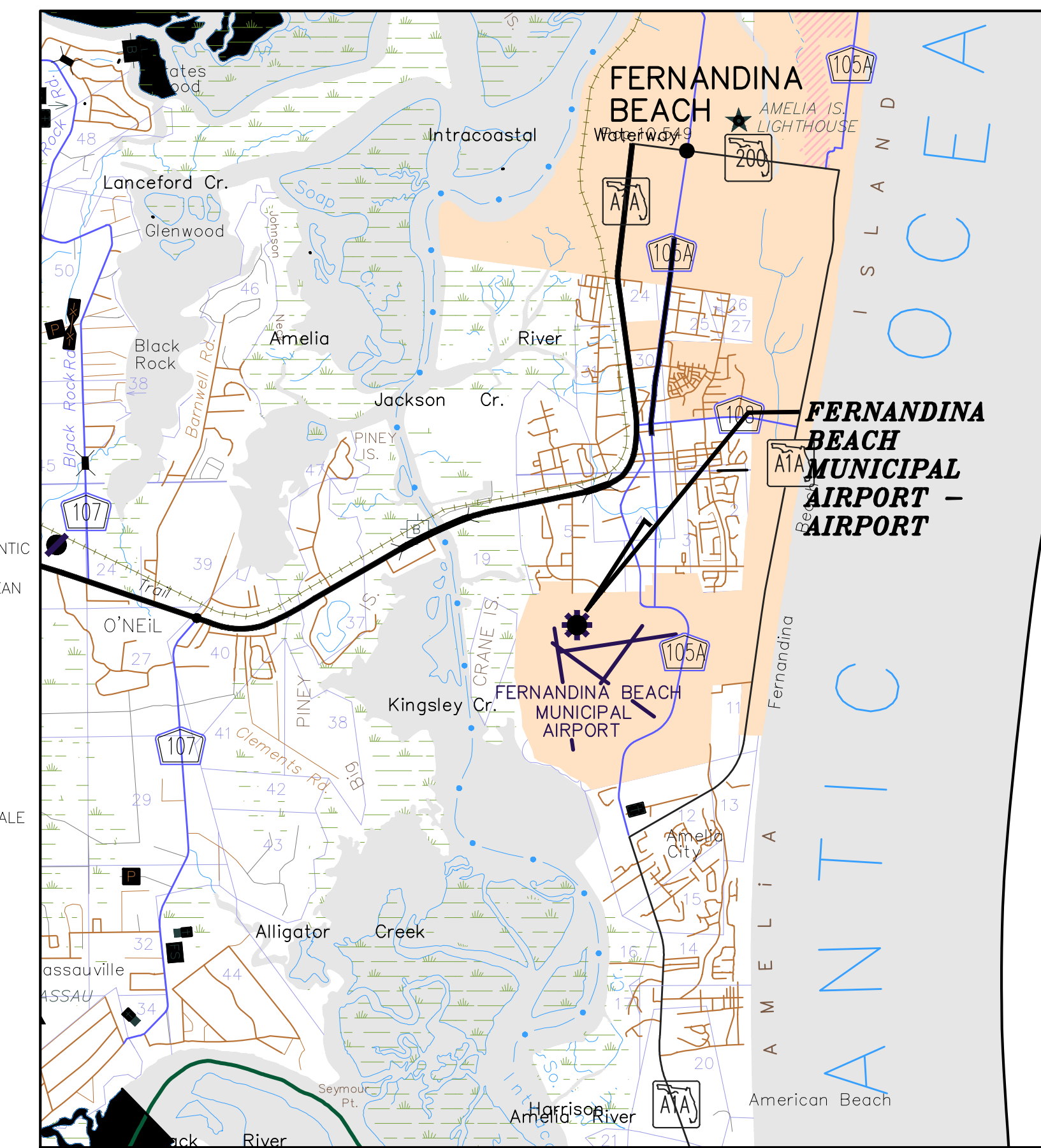
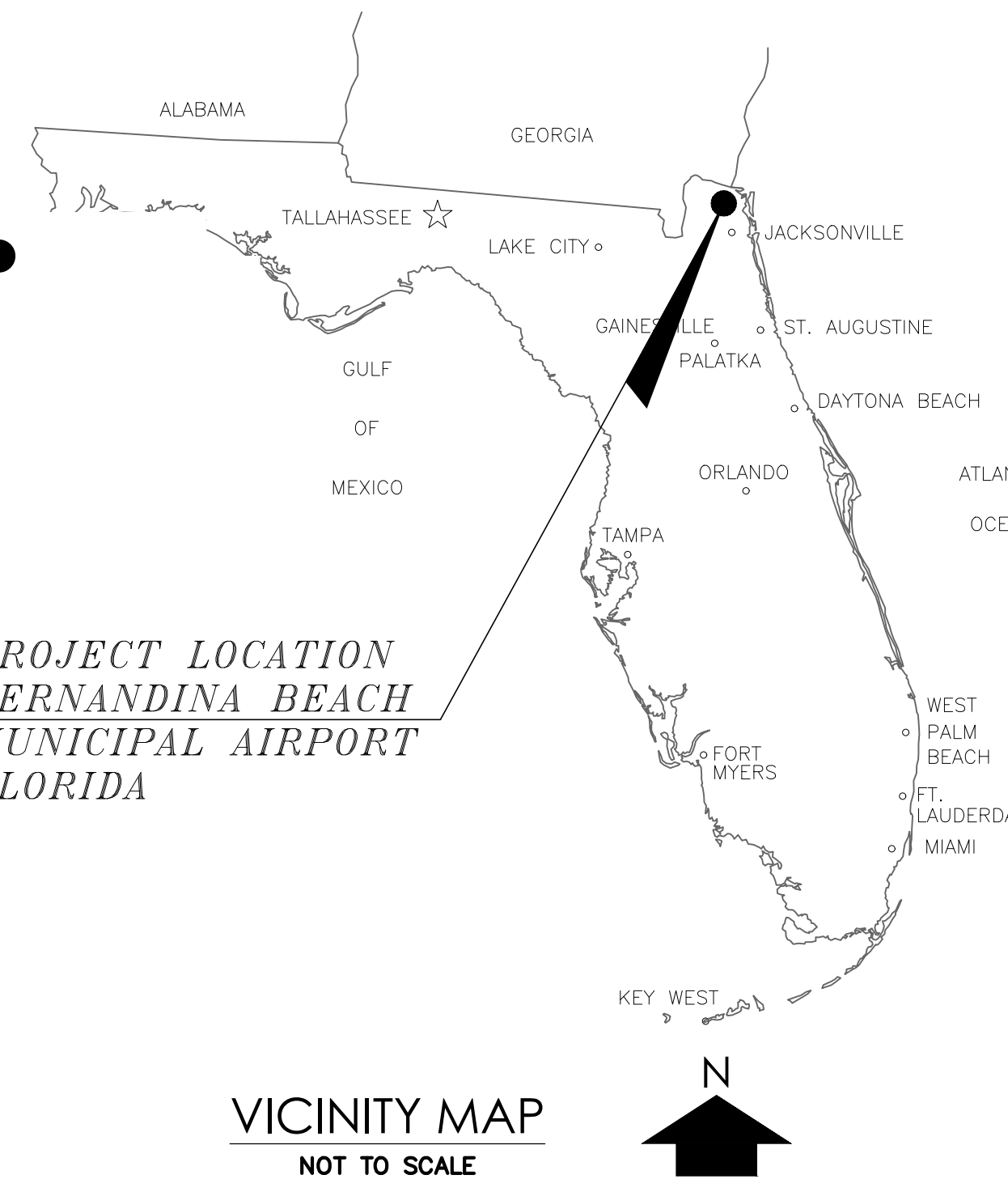
PASSERO ASSOCIATES  
PROJECT NUMBER 20182651.0003

City of Fernandina Beach  
Fernandina Beach Municipal Airport  
700 Airport Road  
Fernandina Beach, Florida 32034

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*PROJECT LOCATION  
FERNANDINA BEACH  
MUNICIPAL AIRPORT  
FLORIDA*



**LOCATION MAP  
NOT TO SCALE**

**Passero Associates**  
 4730 Casa Cola Way, Suite 200 St. Augustine, FL 32095  
 (904) 757-6106 Fax: (904) 757-6107  
 Certificate of Authorization # 3428  
 Engineering Architecture  
 www.passero.com



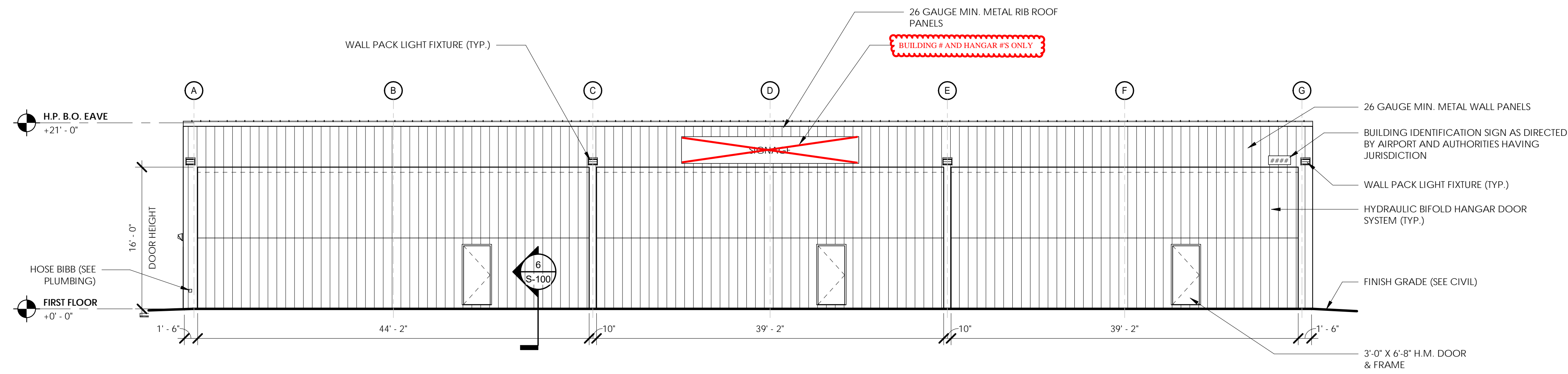
**GILTZ & ASSOCIATES, INC.**  
4835 MUNSON STREET, NW  
CANTON, OH 44718  
(330) 494-6688

**PERMIT SET**

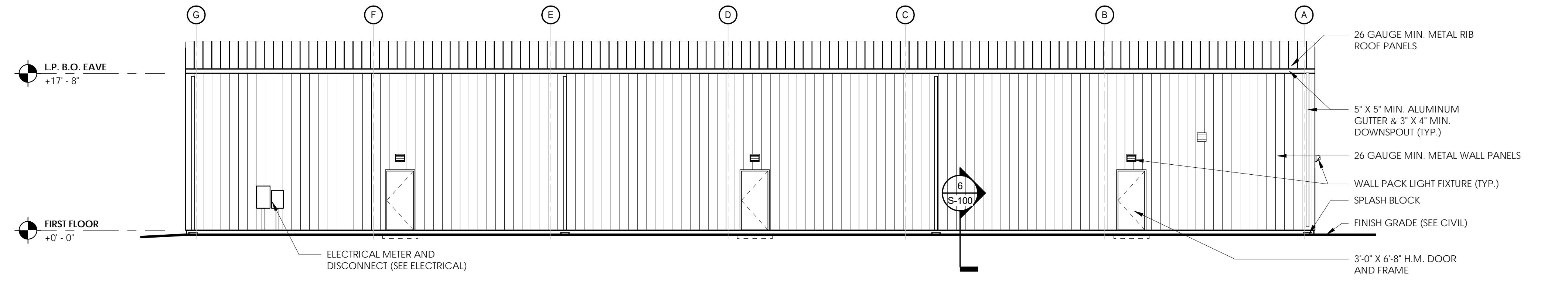


**NOTES:**

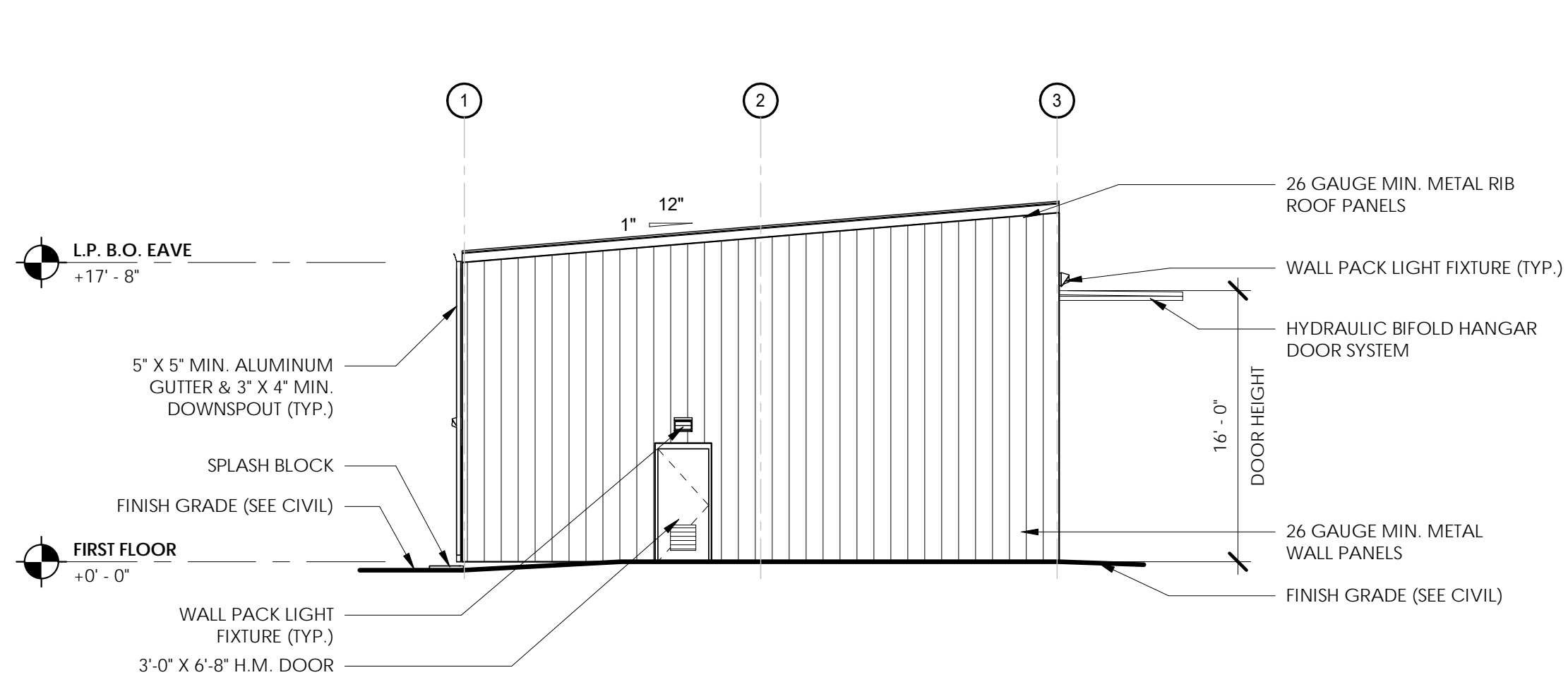
ELEVATIONS EXPRESSED IN DECIMAL FEET REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD). ELEVATIONS EXPRESSED IN FEET AND INCHES REFER TO BUILDING RELATIVE ELEVATIONS WHERE 0'-0" = ±12.42' AND ENGINEERING SPECIFICATIONS. SEE ENGINEERING DRAWINGS.



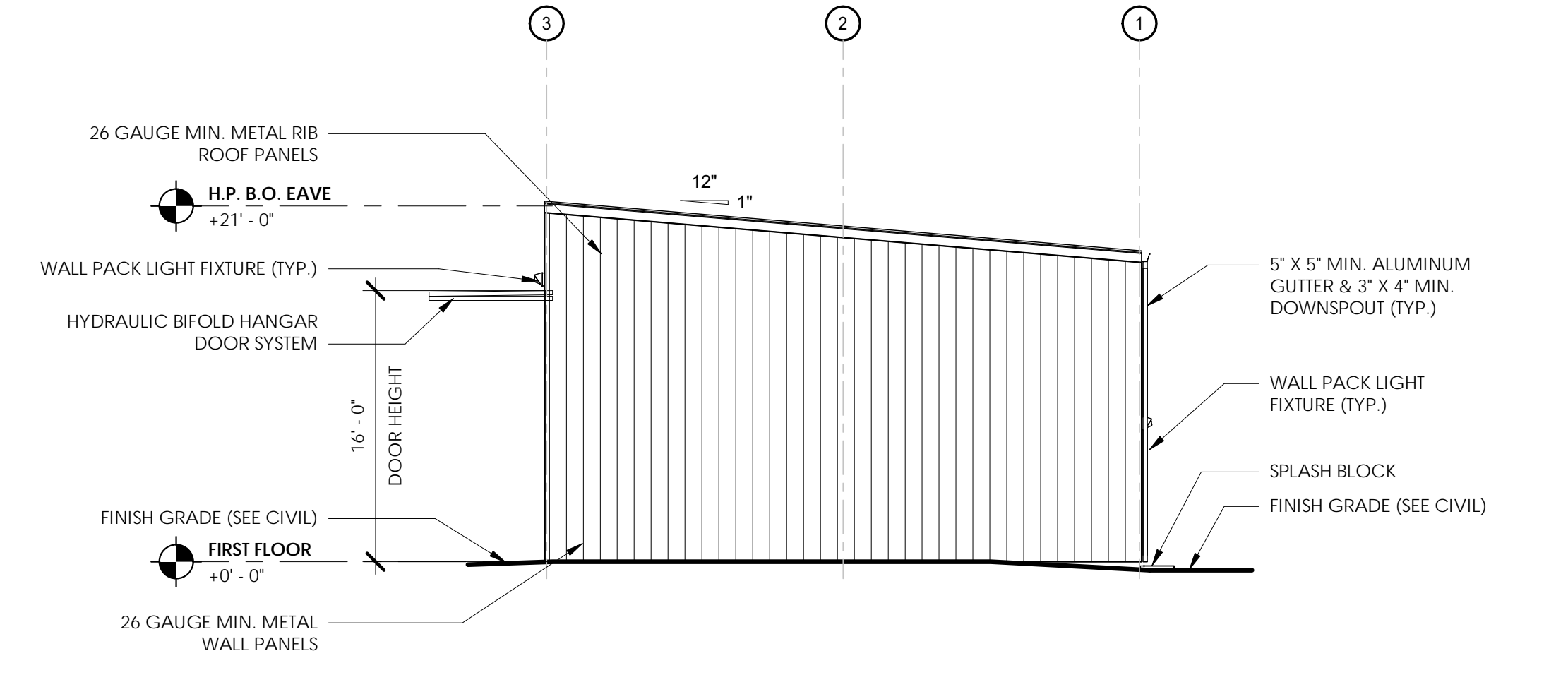
**3 SOUTH ELEVATION**



**4 NORTH ELEVATION**



**1 EAST ELEVATION**



**2 WEST ELEVATION**



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4835 Munson St. NW  
Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
Fernandina Beach, FL 32034

**Passero Associates**

4730 Casa Gola Way, Suite 208 St. Augustine, FL 32095 (888) 325-1000 Fax: (888) 325-1691  
Principle-In-Charge: Andrew Holesko, C.M.  
Project Manager: Matt Singletary, P.E.  
Project Architect: Chris Nardone, R.A.

No.	Date	By	Description

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**EXTERIOR ELEVATIONS**

**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

Project No.: 20182651.0002

Drawing No.: A-200

Date: JANUARY 2020

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**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

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Fernandina Beach, FL 32034

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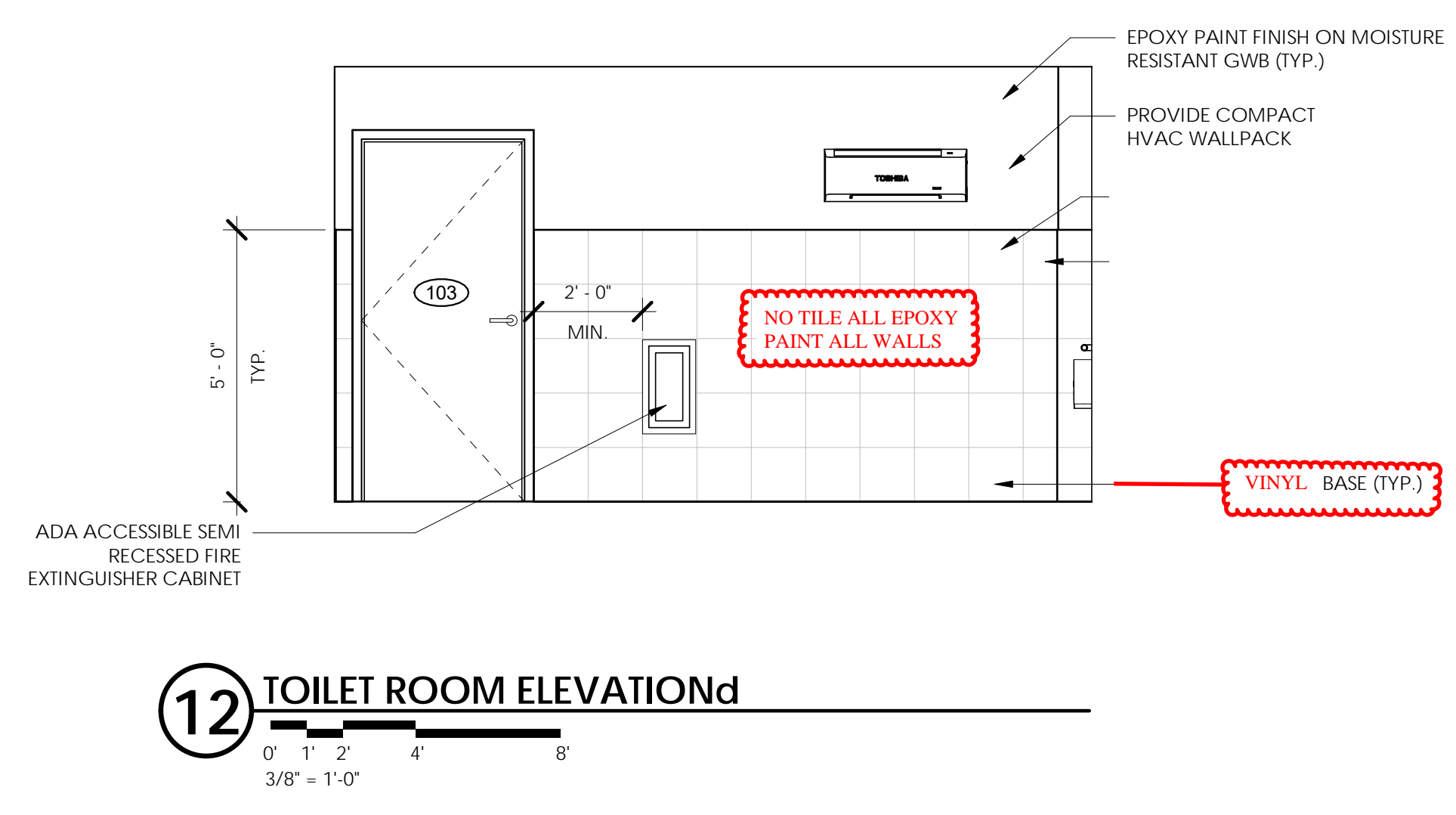
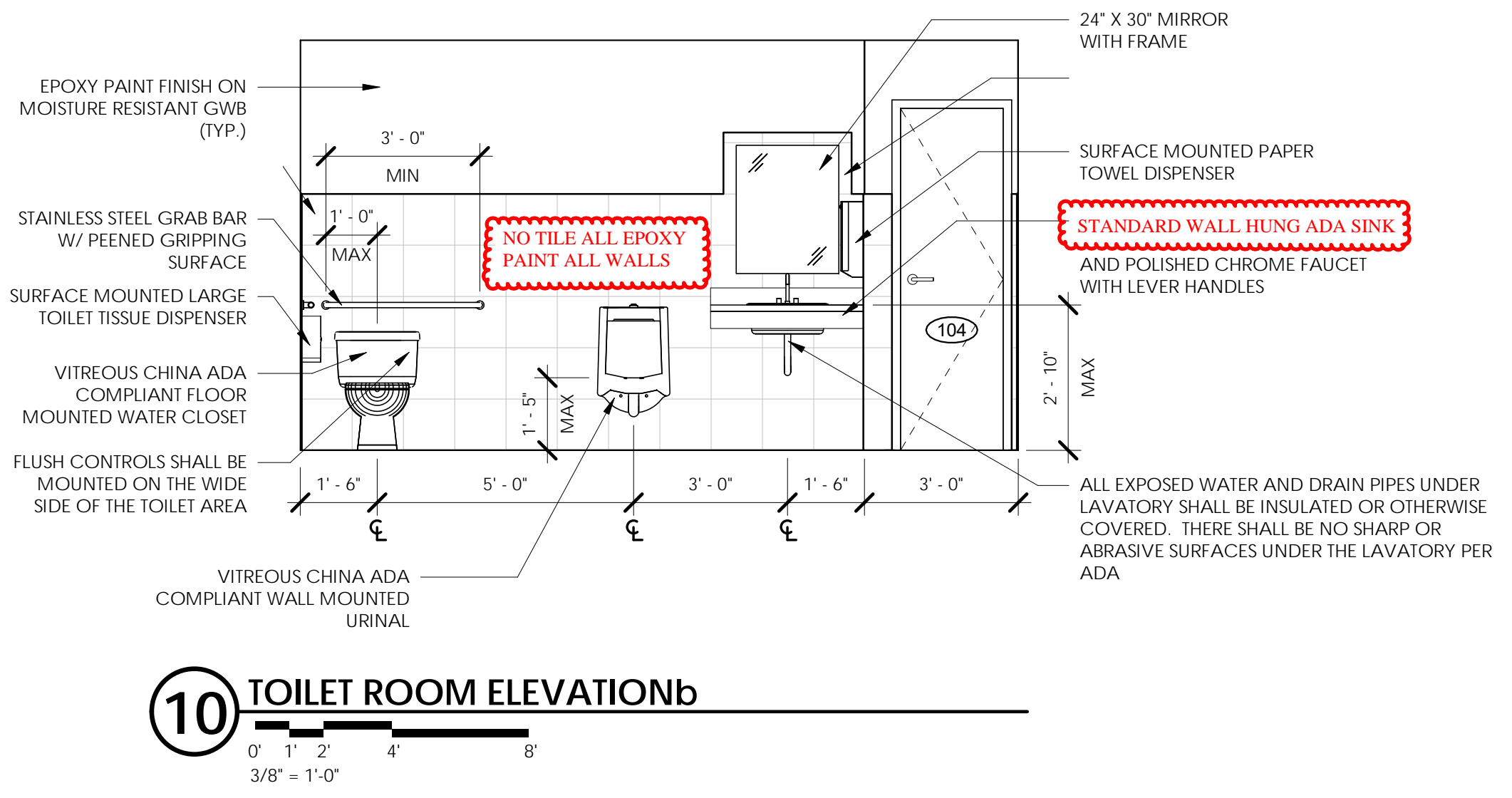
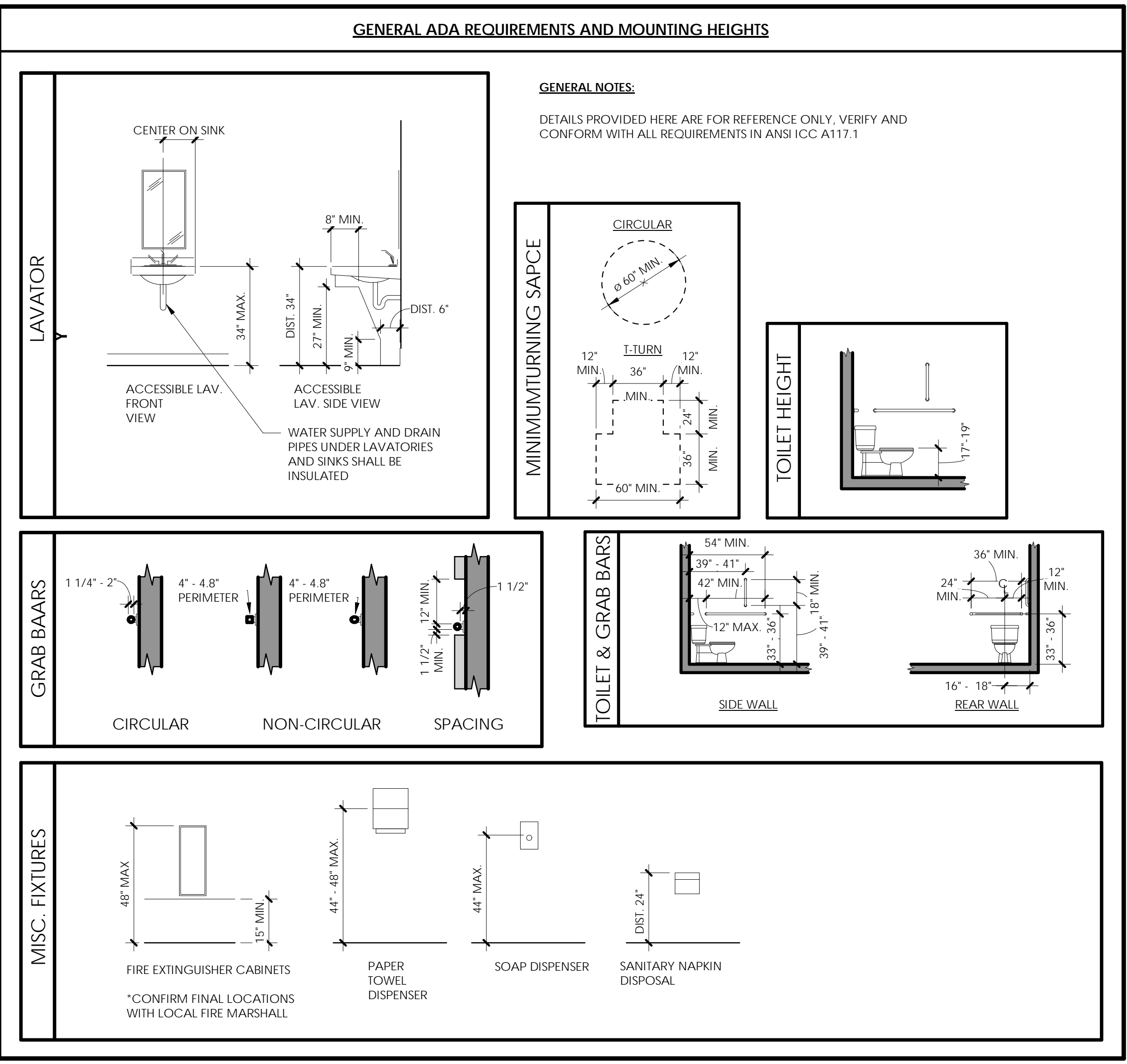
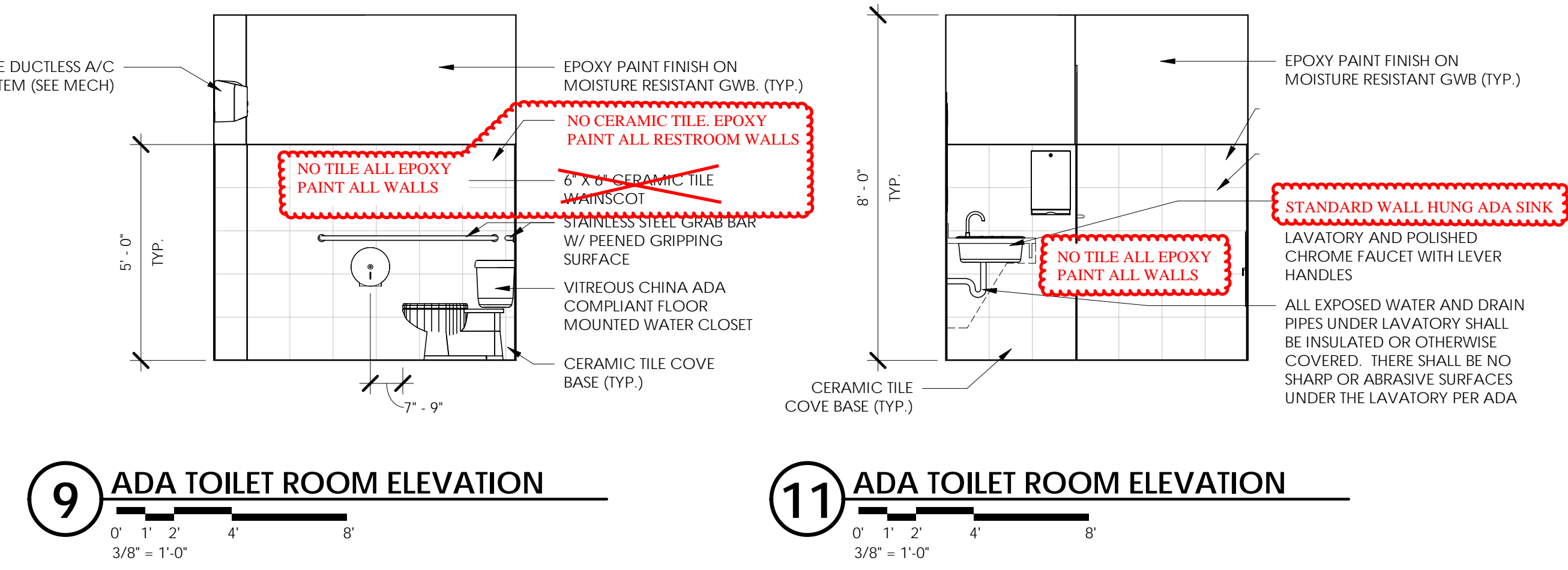
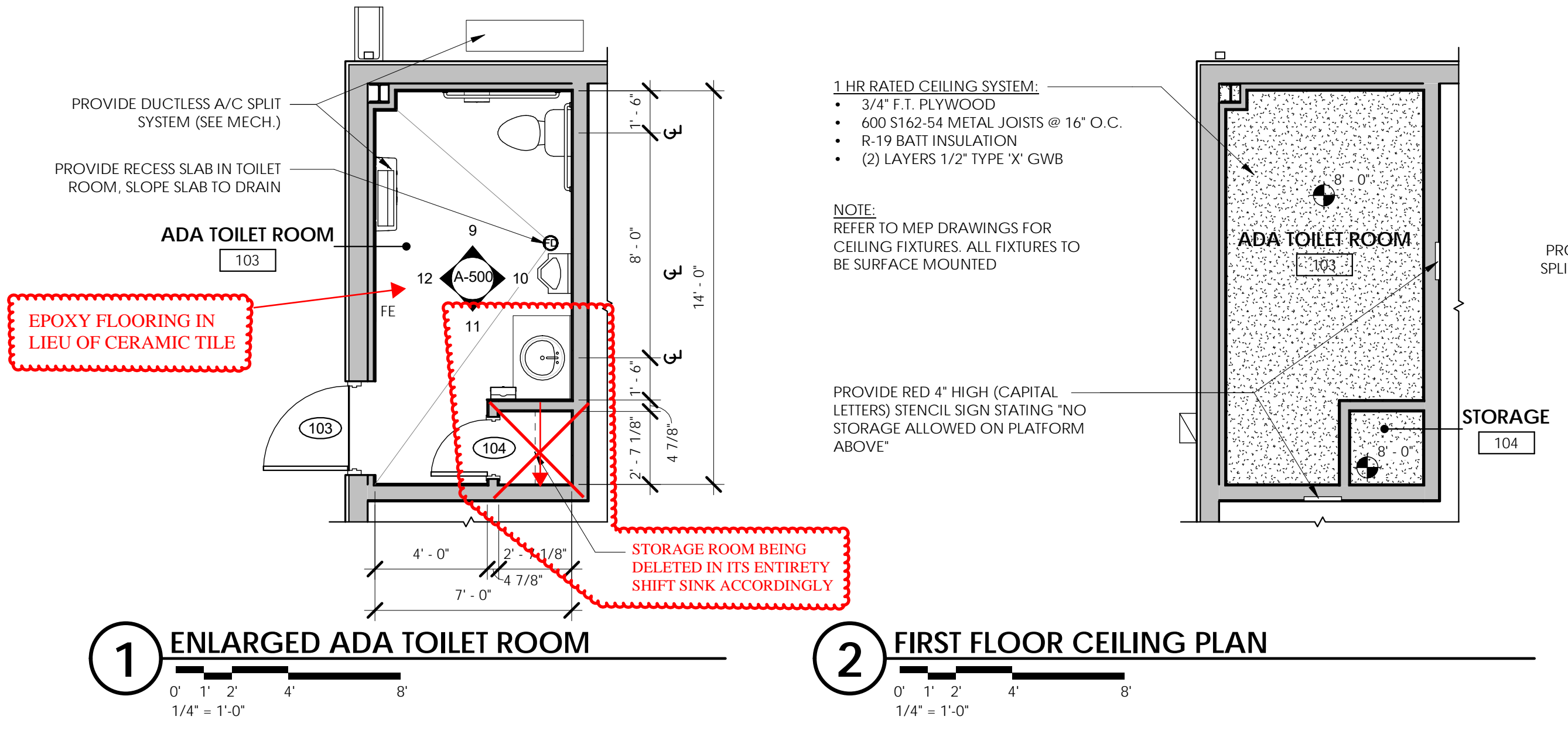
**ENLARGED FLOOR PLANS AND INT. ELEVATIONS**  
**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

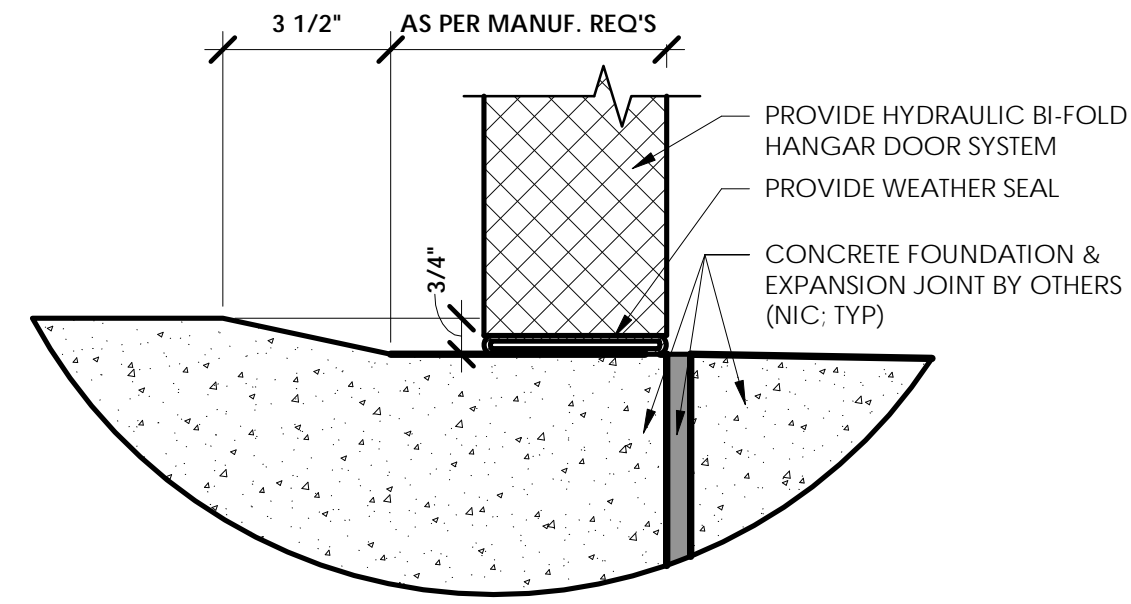
Project No.: 20182651.0002

Drawing No.: A-500

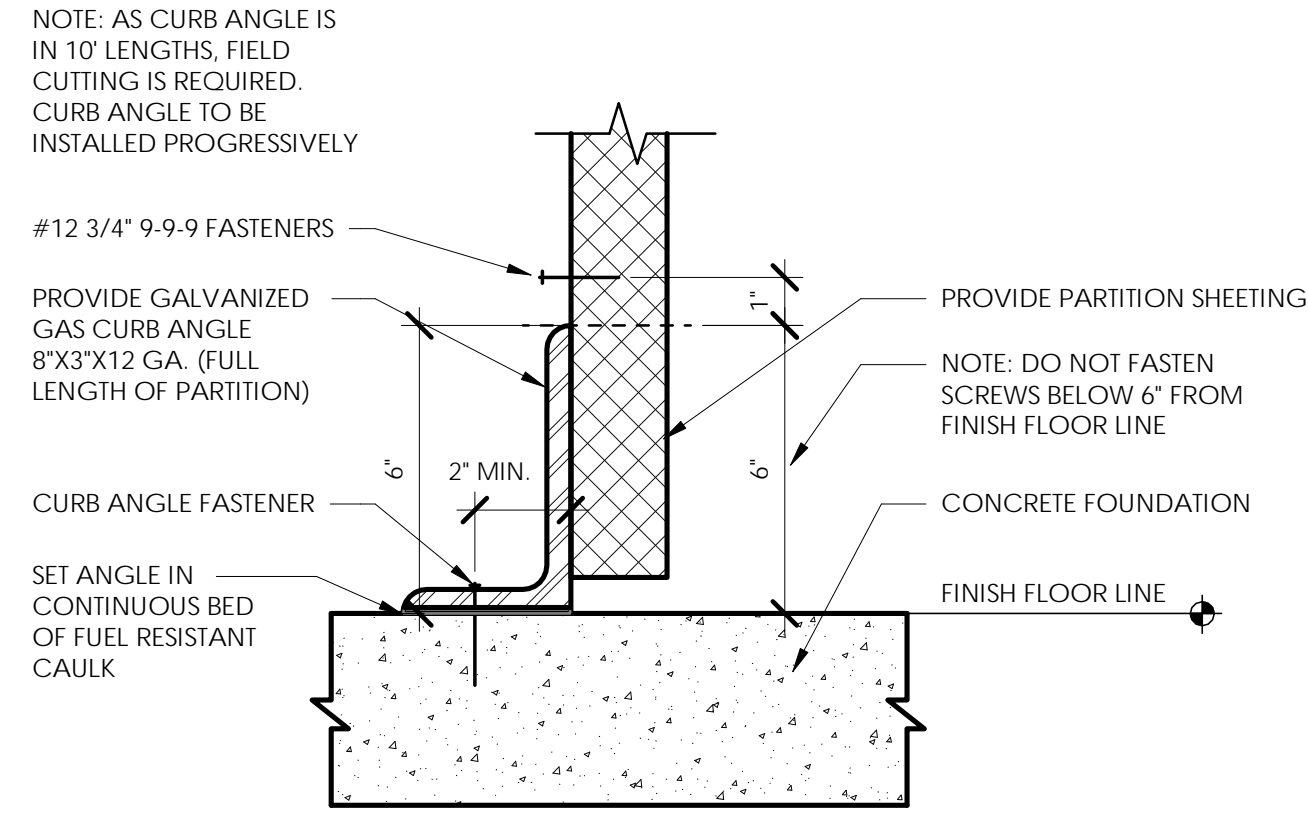
Date: JANUARY 2020



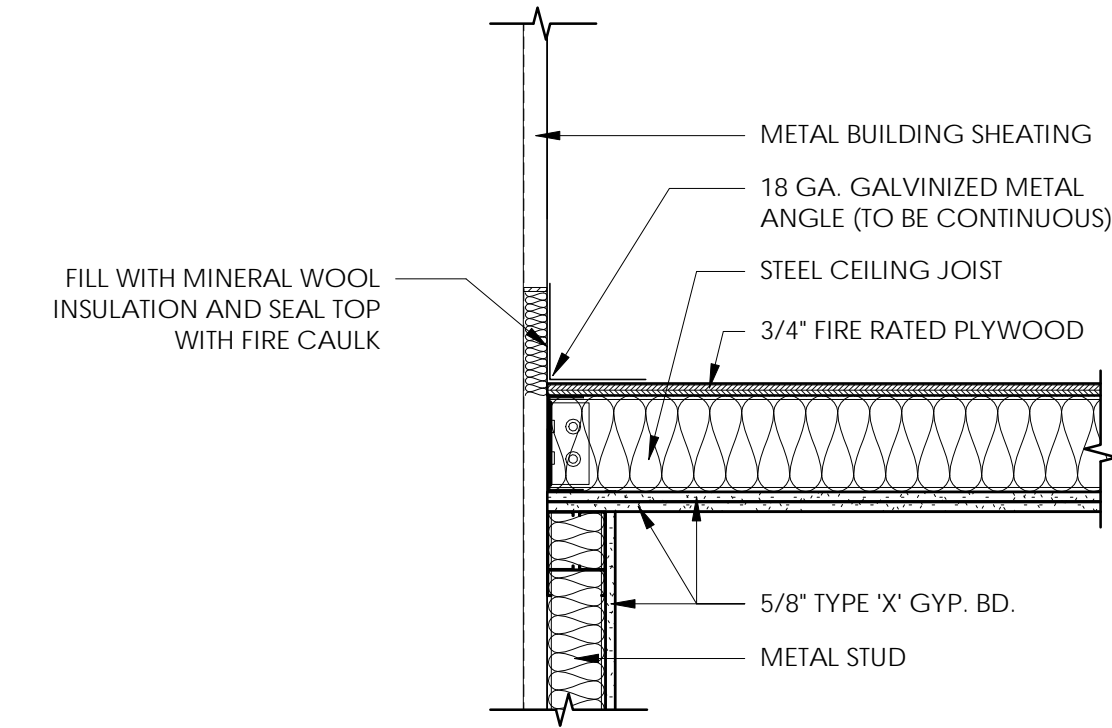
- TOILET ROOM NOTES:**
- TOILET ROOMS SHALL BE FULLY HANDICAPPED ACCESSIBLE. ALL FIXTURES AND ACCESSORIES SHALL BE INSTALLED TO COMPLY WITH THE FLORIDA ACCESSIBILITY CODE.
  - ALL OPERABLE PARTS OR MECHANISMS FOR HANDICAPPED TOILET FIXTURES AND ACCESSORIES SHALL NOT BE HIGHER THAN 48" A.F.F.
  - ALL GYP. BOARD TO BE USED INSIDE TOILET ROOMS TO BE MOISTURE RESISTANT (M.R.)
  - MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTING SURFACE NO HIGHER THAN 40" A.F.F.
  - KNEE CLEARANCE THAT IS AT LEAST 27" HIGH, 30" WIDE AND 19" DEEP SHALL BE PROVIDED UNDER SINKS AND LAVATORIES.
  - PROVIDE PAPER TOWEL AND TOILET TISSUE DISPENSERS AS SELECTED BY OWNER.
  - CONTRACTOR TO PROVIDE BACKING TO SUPPORT ALL GRAB BARS, ACCESSORIES AND FIXTURES. BACKING AND FASTENERS MUST CONFORM TO MINIMUM SHEAR AND STRUCTURAL STRESS AS OUTLINED IN 4.26.3 CODE OF FEDERAL REGULATIONS (28 CFR, PART 36)



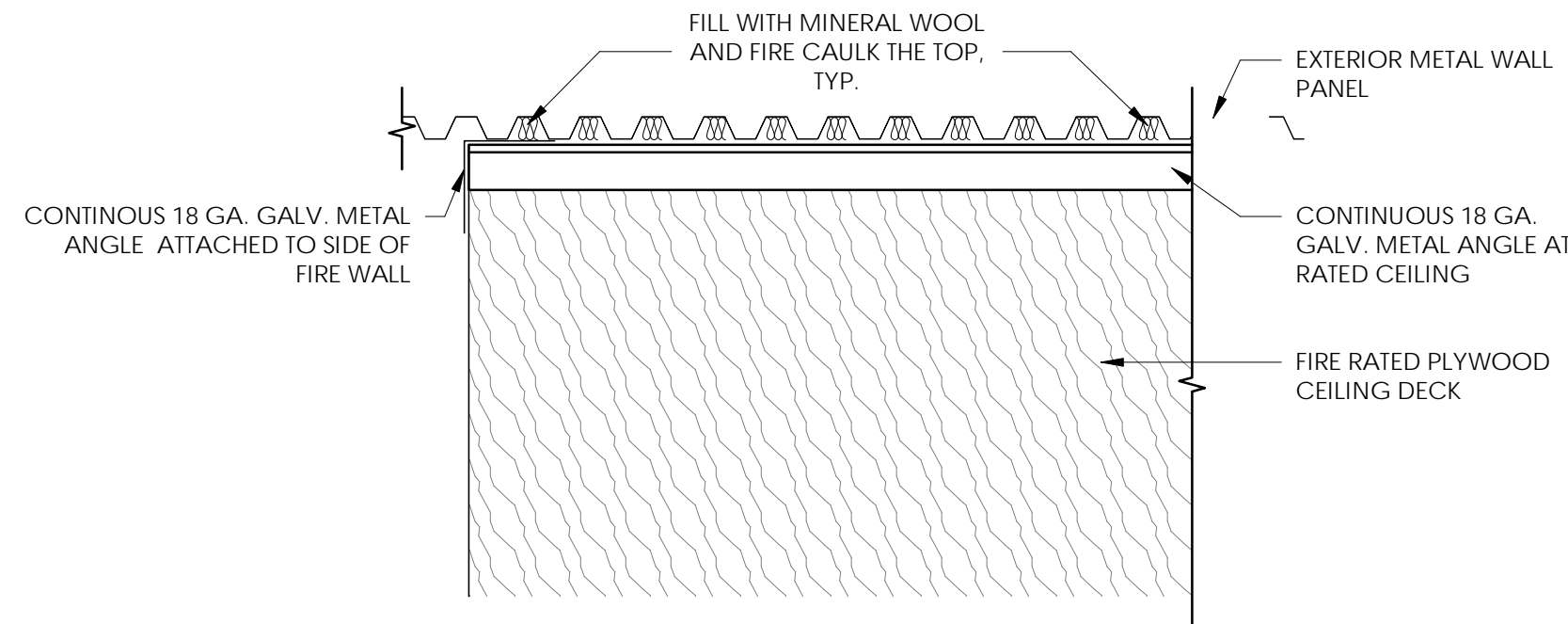
**1** TYP. THRESHOLD DETAIL  
 0' 1' 2' 4' 8'  
 3" = 1'-0"



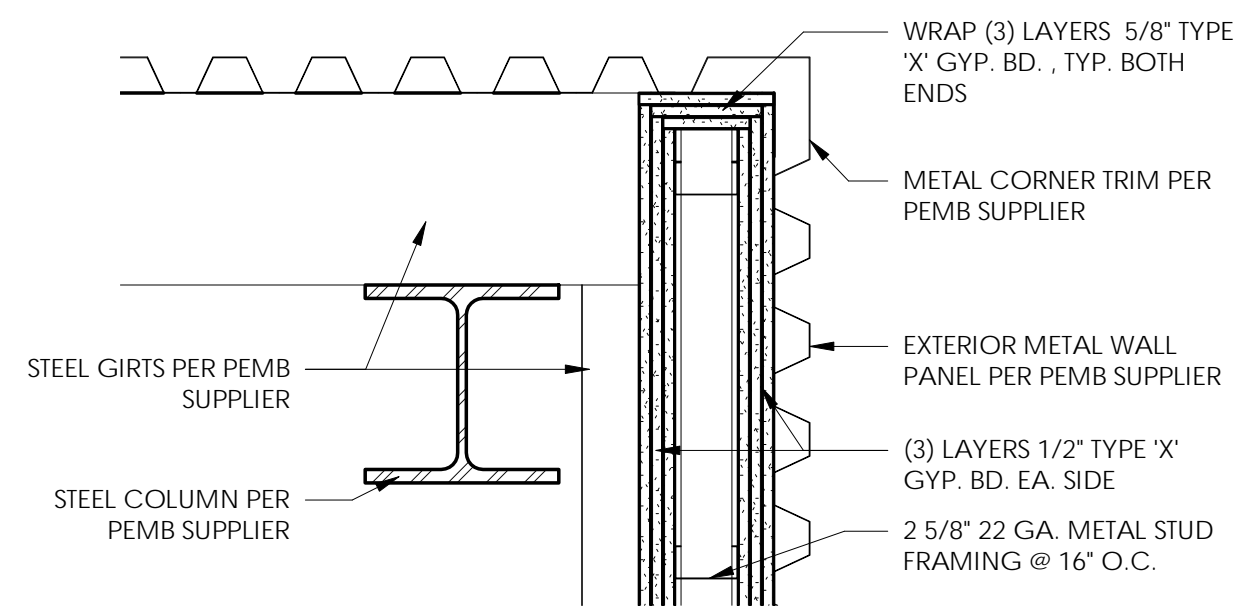
**2** CURBING AT INTERIOR PARTITIONS (TYP)  
 0' 1' 2' 4' 8'  
 3" = 1'-0"



**3** RATED CEILING ASSEMBLY AT EXTERIOR WALL (SECTION)  
 0' 1' 2' 4' 8'  
 1" = 1'-0"



**4** RATED CEILING ASSEMBLY AT EXTERIOR WALL (PLAN)  
 0' 1' 2' 4' 8'  
 1" = 1'-0"



**5** 3-HOUR FIRE BARRIER DETAIL  
 0' 1' 2' 4' 8'  
 1 1/2" = 1'-0" UL DESIGN NO. U435

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DETAILS

BOX HANGARS (GILTZ)

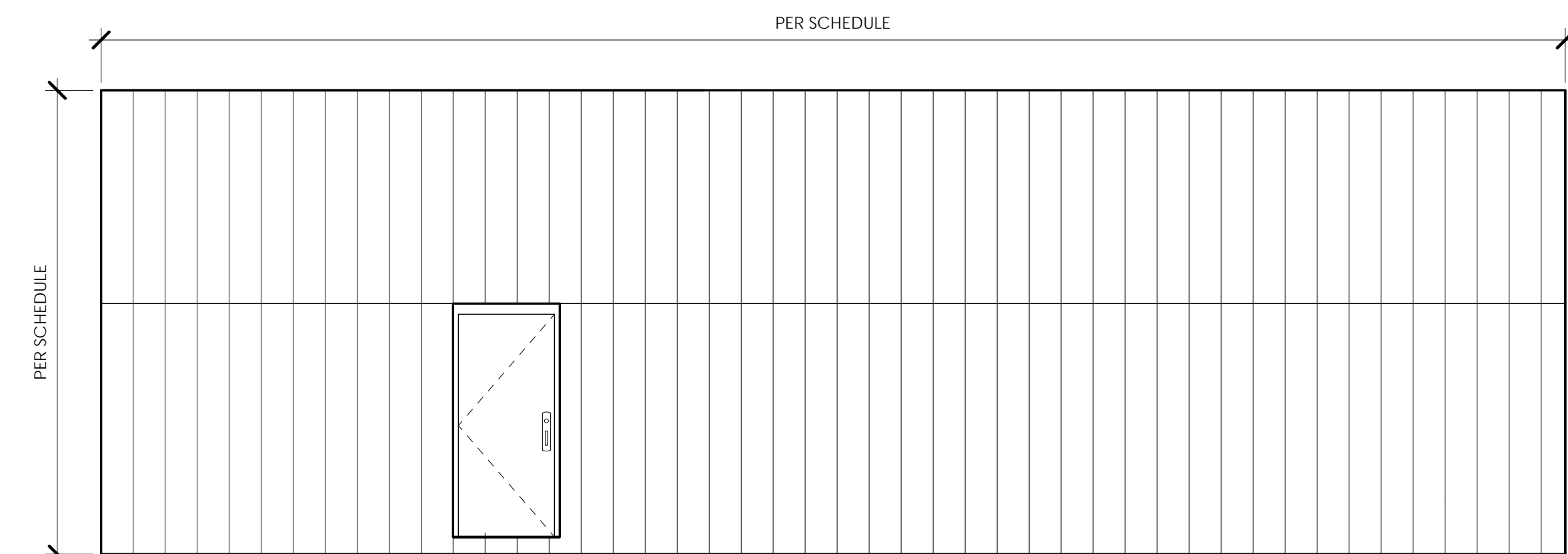
Fernandina Beach Municipal Airport  
 Town/City: Fernandina Beach  
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Project No.:  
 20182651.0002

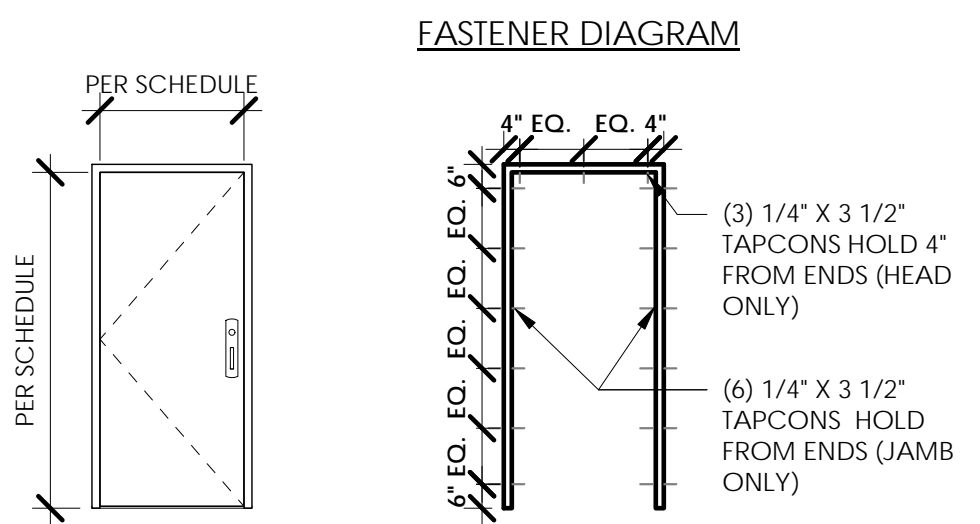
Drawing No.:  
 A-501

Date:  
 JANUARY 2020

DOOR #	DOOR WTL.	DOOR FIN.	DOOR							FRAME		HW SET	REMARKS	WIND LOAD POSITIVE	WIND LOAD NEGATIVE	IMPACT RATED ASSEMBLY	
			# OF LEAVES	THICKNESS	WIDTH	HEIGHT	LABEL RATING	LOUVER	GLASS	ELEV. LETTER	FRAME TYPE						FRAME FINISH
100A	METAL	PER MANUF.	2		39' - 2"	16' - 0"	-	-	-	A	METAL	PER MANUF.	PER MANUF.	ELECTRIC OPERATION W/ BATTERY BACK UP	+24.17	-30.55	YES
100B	HM	PAINT	1	1 3/4"	3' - 0"	6' - 8"	-	-	-	B	HM	PAINT	ENTRY	PROVIDE AN ALUMINUM RAIN DRIP GUARD THE FULL LENGTH OF THE DOOR FRAME AND ATTACHED TO THE DOOR FRAME ABOVE THE DOOR.	+20.06	-22.34	YES
101A	METAL	PER MANUF.	2		39' - 2"	16' - 0"	-	-	-	A	METAL	PER MANUF.	PER MANUF.	ELECTRIC OPERATION W/ BATTERY BACK UP	+20.06	-22.34	YES
101B	HM	PAINT	1	1 3/4"	3' - 0"	6' - 8"	-	-	-	B	HM	PAINT	ENTRY	PROVIDE AN ALUMINUM RAIN DRIP GUARD THE FULL LENGTH OF THE DOOR FRAME AND ATTACHED TO THE DOOR FRAME ABOVE THE DOOR.	+20.06	-22.34	YES
102A	METAL	PER MANUF.	2		44' - 2"	16' - 0"	-	-	-	A	METAL	PER MANUF.	PER MANUF.	ELECTRIC OPERATION W/ BATTERY BACK UP	+24.17	-30.55	YES
102B	HM	PAINT	1	1 3/4"	3' - 0"	6' - 8"	-	-	-	B	HM	PAINT	ENTRY	PROVIDE AN ALUMINUM RAIN DRIP GUARD THE FULL LENGTH OF THE DOOR FRAME AND ATTACHED TO THE DOOR FRAME ABOVE THE DOOR.	+20.06	-22.34	YES
103	HM	PAINT	1	1 3/4"	3' - 0"	6' - 8"	-	-	-	B	HM	PAINT	STOREROOM		+20.06	-22.34	YES
104	HM	PAINT	1	1 3/4"	3' - 0"	6' - 8"	-	-	-	B	HM	PAINT	STOREROOM		+20.06	-22.34	YES



**DOOR #104 DELETED ALL OTHER DOORS AND HARDWARE BY PEMB MANUFACTURER**



NOTE: THE FASTENING SPECIFICATION ARE DIAGRAMMATIC ONLY & INTENDED AS A GUIDE FOR SHOP DRAWINGS. PRODUCT APPROVAL SHALL SUPERCEDE. ARCHITECT TO APPROVE ANY SUBSTITUTE EQUAL.

**GENERAL NOTES:**

- ALL ENTRY DOORS SHALL BE HANDICAP ACCESSIBLE AS PER THE FLORIDA ACCESSIBILITY CODE. FOR BUILDING CONSTRUCTION SECTION 404 THESE DOORS ARE DENOTED BY THE INTERNATIONAL SYMBOL OF ACCESS (ISA).
- ALL STRUCTURES ARE DESIGNED TO MEET FLORIDA BUILDING CODE (2017 6TH EDITION) THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.
- ALL WALL OPENINGS AND WALL CONSTRUCTION TO COMPLY WITH TABLE 601 OF THE FLORIDA BUILDING CODE. (2017 6TH EDITION)
- THIS AIRCRAFT HANGAR SHALL BE UN-SPRINKLERED THEREFORE NO HAZARDOUS OPERATIONS SHALL BE PERMITTED INCLUDING FUEL TRANSFER, WELDING, TORCH CUTTING, TORCH SOLDERING, DOPING AND SPRAY PAINTING.
- NO HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT EMPLOYING AN OPEN FLAME OR GLOWING ELEMENT SHALL BE ALLOWED.
- IN ACCORDANCE WITH NFPA 10, PROVIDE 2 PURPLE K DRY CHEMICAL 10 POUND, 80 B-C, PORTABLE FIRE EXTINGUISHER FE WITH ADA ACCESSIBLE FIRE EXTINGUISHER CABINET FOR ORDINARY (MODERATE) HAZARDOUS OCCUPANCY AT ALL EGRESS EXITS AND WITHIN A TRAVEL DISTANCE OF 75 FT. MAX. THE FIRE EXTINGUISHERS WILL BE HUNG IN COMPLIANCE WITH NFPA, FLORIDA FIRE PROTECTION CODE, FLORIDA BUILDING CODE, AND ADA. EACH LOCATION SHALL HAVE A SIGN MOUNTED ABOVE THE FIRE EXTINGUISHER IDENTIFIED AS "FIRE EXTINGUISHER" AND PROVIDE 1/300 S.F. EXTINGUISHERS TO SQ. FT. AREA OR ADDITIONAL DEVICES AS MAY BE REQUIRED BY LOCAL FIRE MARSHALL HAVING JURISDICTION.
- EXPOSED INTERIOR INSULATION ATTACHED TO WALLS AND CEILINGS SHALL COMPLY WITH SPECIAL PROVISIONS FOR INTERIOR WALL AND CEILING FINISH CRITERIA OF NFPA 101 & FBC.
- THE SURFACE OF THE FLOOR SLAB SHALL BE NONCOMBUSTIBLE AND ABOVE THE ADJACENT APRON AT THE ENTRANCE OF THE HANGAR.
- ANY DISRUPTION IN THE CONTINUITY OF EXISTING UTILITIES WITHIN THE SITE SHALL BE COORDINATED WITH THE FERNANDINA BEACH MUNICIPAL AIRPORT REPRESENTATIVE, GIVING 72 HOURS NOTICE PRIOR TO ANY DISRUPTION AND SHALL BE RESTORED IMMEDIATELY.
- GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COMPLETE ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE LAWS, CODES, REGULATIONS, SAFETY, AND FOOT STANDARDS.
- CONTRACTOR SHALL COORDINATE STAGING AREAS WITH ARCHITECT/ ENGINEER AND FERNANDINA BEACH MUNICIPAL AIRPORT REPRESENTATIVE.
- THE CONTRACTORS SHALL MAINTAIN A SAFE ENVIRONMENT DURING ALL PHASES OR CONSTRUCTION.
- THE CONTRACTOR GUARANTEES AND WARRANTS THAT ALL WORK PERFORMED SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE ISSUANCE OF THE CERTIFICATE OF FINAL COMPLETION. ANY DEFECTS OR DAMAGE DISCOVERED DURING SAID PERIOD SHALL BE REPAIRED OR REPLACED AS DIRECTED IN WRITING BY THE ARCHITECT/ ENGINEER WITH NO COST TO FERNANDINA BEACH MUNICIPAL AIRPORT REPRESENTATIVE.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION.
- THERE SHALL BE NO ANIMALS/PETS ALLOWED AT THE JOB SITE.
- MATERIALS SHALL BE NEW OF SPECIFIED QUALITY, DELIVERED IN A TIMELY FASHION AND AMPLI QUANTITY TO PREVENT DELAY OF WORK. SUBSTITUTIONS REQUIRE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER AND CAN BE MADE DURING THE SHOP DRAWING SUBMITTAL PHASE.
- THE CONTRACTOR SHALL CLEAR THE PROJECT JOB SITE OF ALL TRASH, RUBBISH AND DEBRIS DAILY. DISPOSE OF ALL WASTE MATERIAL IN A LEGAL MANNER. CONTRACTOR SHALL SUPPLY HIS OWN DUMPSTER AT LOCATIONS AS DIRECTED BY THE ARCHITECT/ ENGINEER AND FERNANDINA BEACH MUNICIPAL AIRPORT REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTAINING SECURITY PER FAA AND AIRPORT REGULATIONS FOR AN OPERATIONAL AIRPORT FACILITY INCLUDING PARKING, DELIVERY REQUIREMENTS ETC.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PREMISES THROUGHOUT THE DURATION OF THE PROJECT.
- INSTALL ALL ITEMS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REVIEWED SUBMITTALS. UPON COMPLETION MAKE ALL REQUIRED TESTS AND SECURE ALL REQUIRED APPROVALS FROM AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL SUBMIT PRODUCT DATA, SAMPLES AND MAINTENANCE RECOMMENDATIONS FOR EACH MATERIAL/ FINISH SPECIFIED. INCLUDE THIS AS PART OF SUBMITTALS AND PROJECT CLOSEOUT DOCUMENTATION. SUBMITTALS ARE REQUIRED FOR ALL EQUIPMENT, FIXTURES, FINISH MATERIALS, HARDWARE, ETC.
- THERE ARE NO SUBSTITUTIONS ALLOWED UNLESS APPROVED BY THE ARCHITECT/ ENGINEER AND THE FERNANDINA BEACH MUNICIPAL AIRPORT. THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ARCHITECT/ ENGINEER ANY AND ALL REQUIREMENTS FOR SUBSTITUTION.
- PERFORM ALL CONSTRUCTION AND ARRANGE FOR MATERIALS AND EQUIPMENT DELIVERY AND TRASH REMOVAL IN ACCORDANCE WITH THE REQUIREMENTS OF FERNANDINA MUNICIPAL AIRPORT.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR OMISSIONS FOUND DURING CONSTRUCTION. AS THOSE DISCREPANCIES OR OMISSIONS AFFECT THEIR WORK, WORK SHALL STOP ON THE AFFECTED PORTION OF THE PROJECT UNTIL THE ARCHITECT/ ENGINEER HAS PROVIDED INSTRUCTION ON THE DISCREPANCY OR OMISSION.
- CONTRACTOR TO COORDINATE ALL PENETRATIONS IN EXTERIOR WALL AND ROOF WITH MANUFACTURER. THESE INCLUDE ROOF VENTS, SLEEVES, ETC. CONTRACTOR TO PROVIDE ALL OPENINGS IN EXTERIOR WALLS AND ROOF FOR OTHER TRADES TO INSTALL VENT LINES ETC.
- CONTRACTOR SHALL PROVIDE APPROPRIATE INFILL AT ALL PARTITIONS, FLOOR SURFACE, CEILING SURFACES WHERE HEIGHT, PLAN, OR MATERIAL OR OTHER TRANSITIONS OCCUR. INFILL SHALL INCLUDE APPROPRIATE STRUCTURAL BACK-UP.
- WORK REQUIRING TAPPING INTO EXISTING UTILITIES, ETC. SHALL BE COORDINATED WITH THE ENGINEER.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE (2) SETS OF AS BUILT DRAWINGS, ON REPRODUCIBLES, AS WELL AS ELECTRONIC FILES ON DISK (AUTOCAD) TO FERNANDINA BEACH MUNICIPAL AIRPORT.

**DOOR NOTES:**

- ALL DOORS SHALL HAVE ACCESSIBLE HANDLES, LATCHES, LOCKS, WIND CHAINS AND OTHER OPERATING DEVICES INCLUDING THRESHOLDS (EXCEPT FOR INTEGRAL DOOR THRESHOLDS) AS PER ADA REQUIREMENTS.
- DOOR OPENING FORCE SHALL BE EQUAL TO OR LESS THAN FIVE POUNDS.
- ALL DOORS SHALL COMPLY WITH NFPA 101.7.2.1.
- PROVIDE CLOSER FOR ALL EXTERIOR DOORS.
- IMPACT RATED FOR THE WIND-BORNE DEBRIS REGION REQUIREMENTS ARE APPLICABLE THE AIRPORT IS IN A WIND-BORNE DEBRIS REGION.
- WIND PRESSURES SHOWN ABOVE ARE DERIVED FROM VALUES PROVIDED BY THE ENGINEER. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES REGARDING THE WIND PRESSURES ABOVE.
- CONTRACTOR SHALL COORDINATE PROPER ATTACHMENT OF FRAMES TO WALLS AS PER THE STATE OF FLORIDA PRODUCT APPROVALS.
- PEMB & HANGAR DOOR MANUFACTURER/ SUPPLIER INCLUDING GENERAL CONTRACTOR PERFORMING THE PEMB & HANGAR DOOR INSTALLATION SHALL CONDUCT A POST INSTALLATION INSPECTION OF ALL HYDRAULIC BI-FOLD HANGAR DOOR SYSTEMS INSTALLED ACCORDINGLY IN THE PEMB & PROVIDE A WRITTEN CERTIFICATION THAT THEY ARE INSTALLED CORRECTLY PRIOR TO OWNER PROVIDING FINAL PAYMENT OF 10% TO PEMB AND HANGAR DOOR MANUFACTURER/ SUPPLIER.

FINISH SCHEDULE										
RM. NO.	NAME	BASE	FLOOR	WALLS				CEILING	CEILING HEIGHT	REMARKS
				N	E	W	S			
103	ADA TOILET ROOM	B1	F1	P1	P1	P1	P1	C1	8'-0"	SEE ABOVE INTERIOR ELEVATIONS
104	STORAGE	B1	F1	P1	P1	P1	P1	C1	8'-0"	
100 101 102	BOX HANGAR UNITS	-	F2	-	-	-	-	C2	VARIABLES	

FINISH LEGEND				
	MARK	MATERIAL	DESCRIPTION	REMARKS
INTERIOR/ EXTERIOR	P1	PAINT EPOXY	2 COATS SHERWIN WILLIAMS OR EQUAL ARMOR TILE HS POLYESTER EPOXY FINISH ON 1 COAT PREP-RITE 200 LATEX PRIMER. COLOR TO BE SELECTED BY OWNER.	
	P1	PAINT FLAT	2 COATS SHERWIN WILLIAMS OR EQUAL EXTERIOR LATEX FLAT FINISH ON 1 COAT KEM-BOND HS PRIMER. COLOR TO BE SELECTED BY OWNER.	ALL METAL DOORS AND FRAMES
FLOORS	F1	EPOXY PAINT	EPOXY FLOOR PAINT WITH SLIP RESISTANT SURFACE (SHERWIN WILLIAMS)	
	F2	SEALED CONCRETE	2 COATS SHERWIN WILLIAMS OR EQUAL H&C SILICONE ACRYLIC CONCRETE SEALER. MUST DELIVER SLIP RESISTANCE WHEN CURED. COLOR TO BE SELECTED BY OWNER.	
BASE	B1	VINYL BASE	4" VINYL BASE COLOR TBD BY OWNER	
CEILING	C1	GYPSUM WALLBOARD CEILING	2 COATS SHERWIN WILLIAMS OR EQUAL PROMAR LATEX EGG-SHELL FINISH ON 1 COAT PREP-RITE 200 LATEX PRIMER COLOR TO BE SELECTED BY OWNER	
	C2	VINYL LINING	CLASS 'A' ONLY METALIZED FILM AND WHITE POLYETHYLENE SINGLE BUBBLE REFLECTIVE INSULATION	

NOTE: CONCRETE SLAB SHALL BE CLEAN & SMOOTH. GYPSUM WALL BOARD SHALL BE TAPED AND SPACKLED. SAND SMOOTH PRIOR TO FINISHES.

PERMIT SET

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**DOOR AND FINISH SCHEDULE**

**BOX HANGARS (GILTZ)**

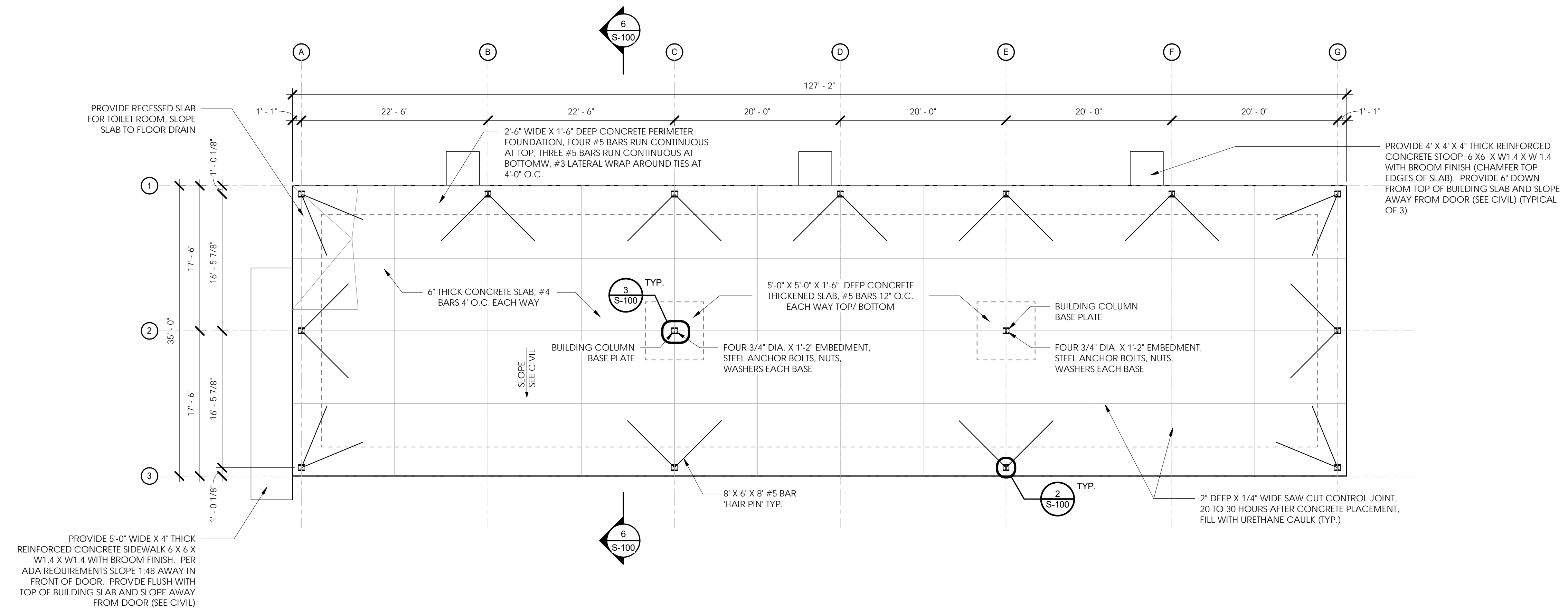
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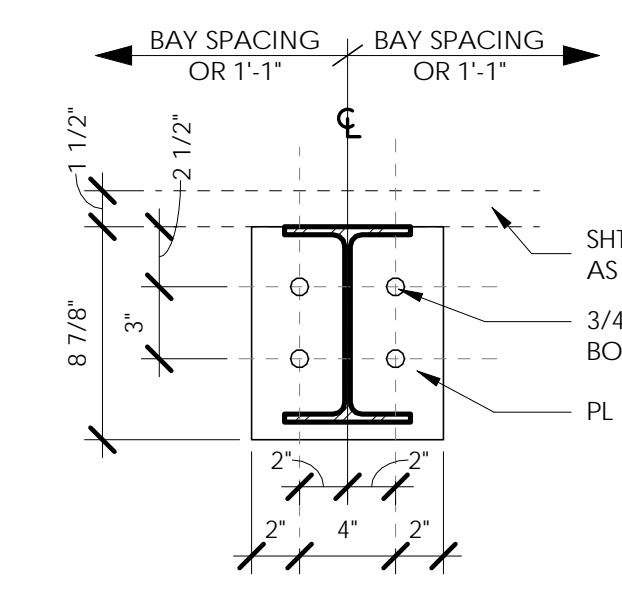
Drawing No.: A-600

Date: JANUARY 2020

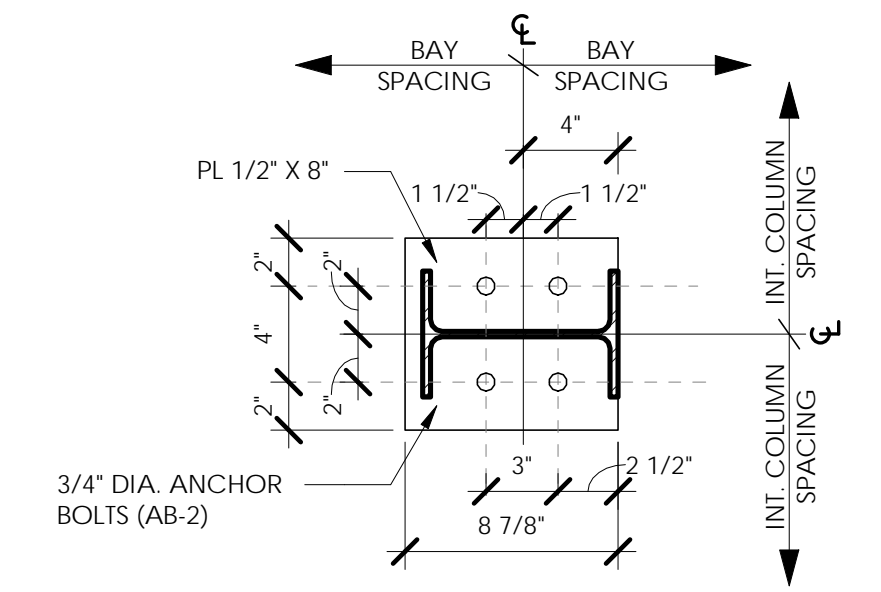
- STRUCTURAL NOTES:**
- DESIGNED PER FLORIDA BUILDING CODE 2017
  - WIND SPEED (3 SECOND GUST) - 130 MPH
  - IMPORTANCE FACTOR - ONE
  - EXPOSURE CATEGORY - B, ENCLOSED
  - INTERNAL PRESSURE COEFFICIENT - ±0.18
  - SOIL DESIGN LOAD BEARING CAPACITY - 2000 PSF - PER REPORT OF GEOTECHNICAL EXPLORATION ECS PROJECT NO. 35-27903 DATED NOVEMBER 9, 2018
  - COMPACT FILL TO 98% MAXIMUM DENSITY, MODIFIED PROCTOR
  - TREAT SUBGRADE FOR TERMITES
  - PLACE 6 MIL POLY VAPOR BARRIER OVER TREATED SOIL
  - REINFORCEMENT BARS GRADE 60
  - #4 BAR SPLICED 48", #5 BAR SPLICED 60"
  - CONCRETE 4000 PSI, FIBER REINFORCED, SMOOTH FINISH
  - BOLTS - ASTM A325
  - VERIFY ANCHOR BOLT DIAMETER, LOCATION PER BUILDING MANUFACTURER, EMBED TO DEPTH SHOWN



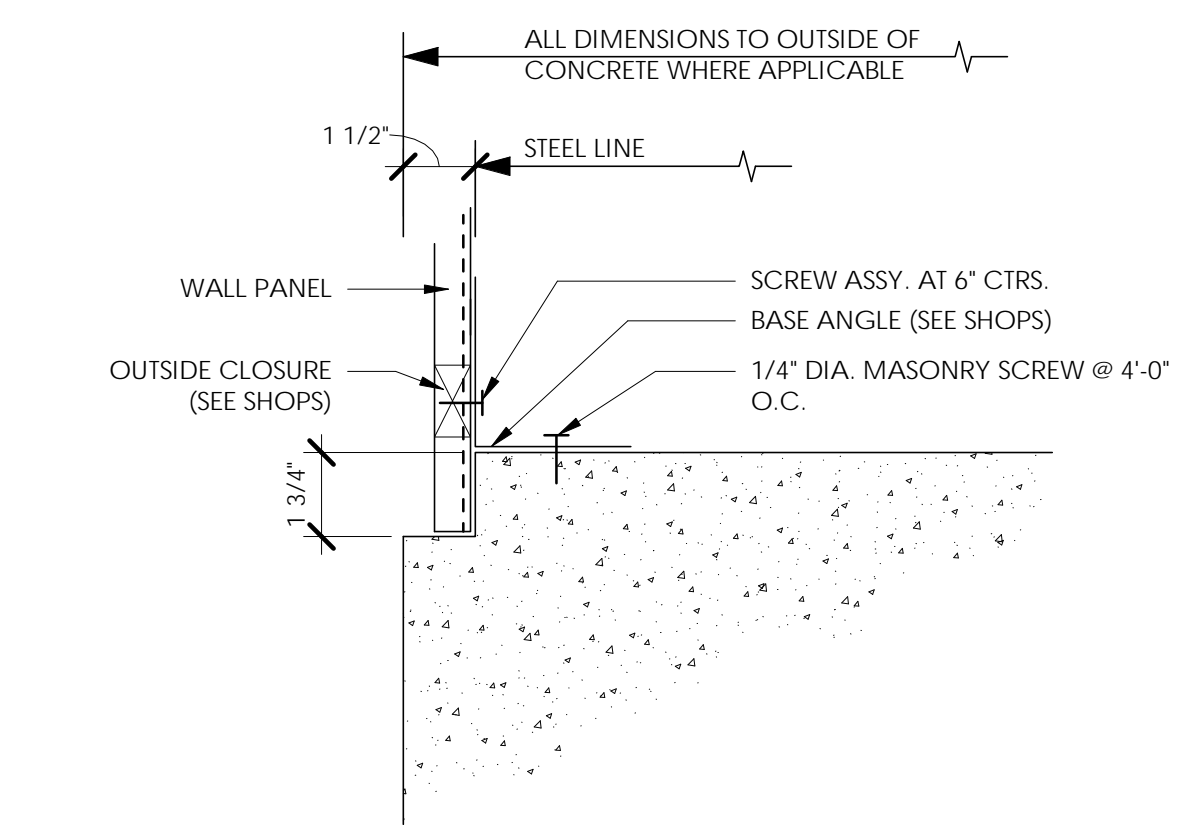
**1 FOUNDATION PLAN**  
0' 1' 2' 4' 8'  
1/8" = 1'-0"



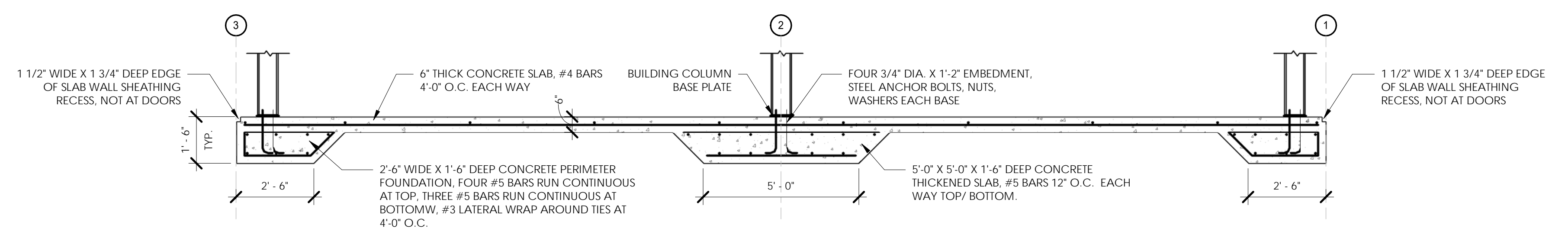
**2 EXTERIOR COLUMN BASE PLATE DETAIL**  
0' 1' 2' 4' 8'  
1 1/2" = 1'-0"



**3 INTERIOR COLUMN BASE PLATE DETAIL**  
0' 1' 2' 4' 8'  
1 1/2" = 1'-0"



**4 SHEET LEDGE DETAIL**  
0' 1' 2' 4' 8'  
3" = 1'-0"



**6 SECTION AT SLAB**  
0' 1' 2' 4' 8'  
3/8" = 1'-0"

PERMIT SET

Stamp:

Client:  
**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
Fernandina Beach, FL 32034

**Passero Associates**

4730 Casa Gola Way, Suite 208 St. Augustine, FL 32095 (885) 325-1000 Fax: (885) 325-1691

Principle-In-Charge: Andrew Holesko, C.M.  
Project Manager: Matt Singletary, P.E.  
Project Architect: Chris Nordone, R.A.

No.	Date	By	Description

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FOUNDATION PLAN

BOX HANGARS (GILTZ)

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

Project No.:  
20182651.0002

Drawing No.:  
S-100

Date:  
JANUARY 2020

**EXHAUST FAN SCHEDULE**

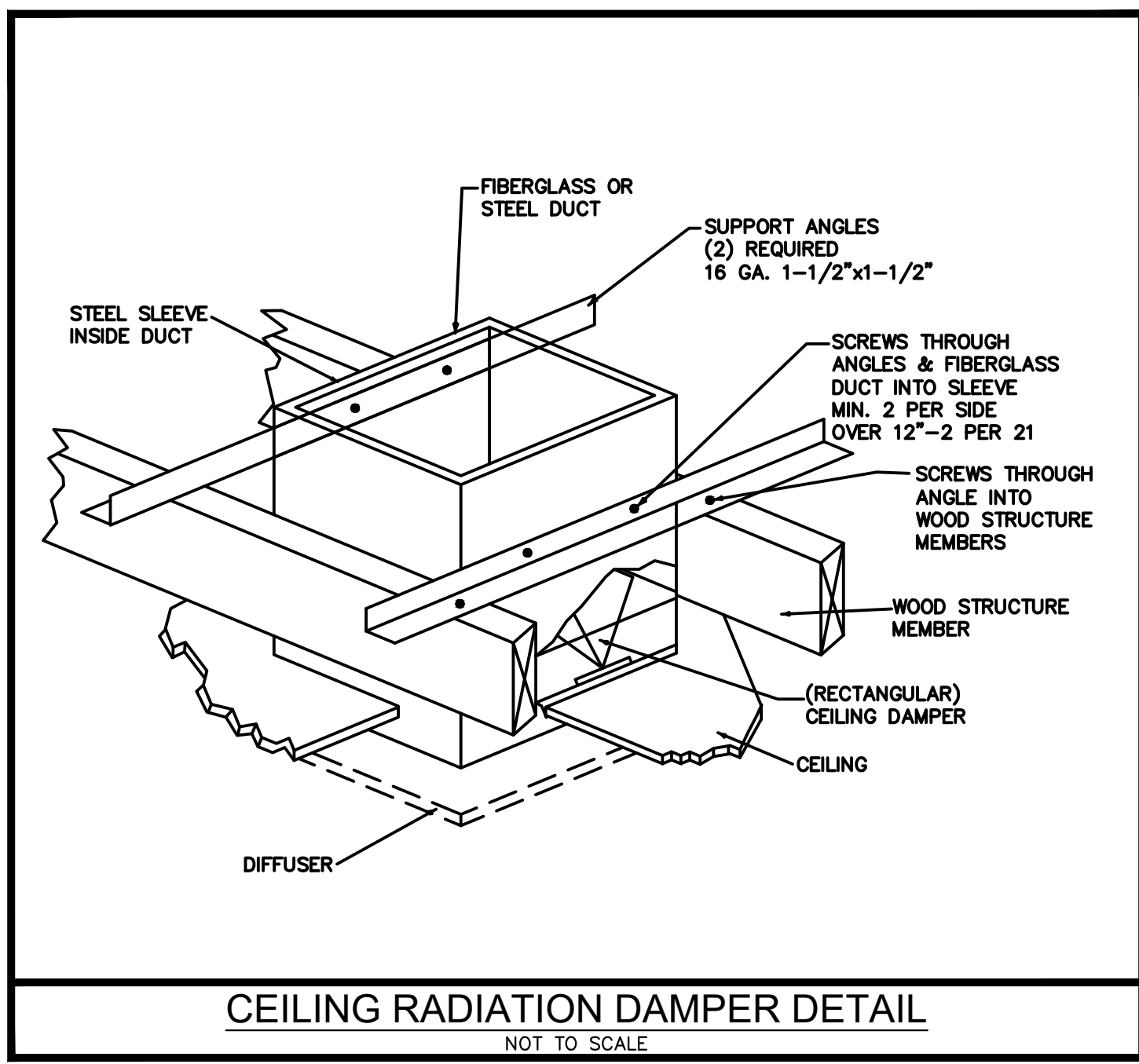
MARK	GREENHECK MODEL	SERVICE AREA	CONFIGUR.	TOTAL EXHAUST CFM	APPROX. ESP IN WG	SONES	SUPPLY FAN HP	RPM	DRIVE	VOLTAGE PHASE V/NO	WEIGHT LBS	DIMENSION IN	OPENING IN	CONTROL	T-STAT SET POINT	NOTES
EF-1	SQ-65-VG	ADA RESTROOM	INLINE	150	0.25	4.9	1/10	1,709	DIRECT	120/1	35	16x12x12	N/A	LIGHTING CONTROL	-	ALL NOTES APPLY

- NOTES:**
- APPROVED EQUAL MANUFACTURER: COOK, PENN, ACME
  - IN-LINE DUCT MOUNTED FAN
  - PROVIDE FACTORY MOUNTED DISCONNECT SWITCH
  - PROVIDE SPRING VIBRATION ISOLATORS
  - PROVIDE FACTORY TIME DELAY SWITCH AND SET TO 10 MIN.
  - PROVIDE INTERNAL FACTORY MOUNTED SPEED CONTROLLER FOR DIRECT DRIVE FAN
  - EXHAUST FAN BRANCH CIRCUIT SHALL BE WIRED THRU LIGHTING CONTROL DEVICE FOR FAN CONTROL. COORDINATE WITH ELECTRICAL.
  - PROVIDE TIME DELAY RELAY TO ALLOW OPERATION OF MOTORIZED DAMPERS
  - PROVIDE INTERLOCK FOR FAN AND ASSOCIATED MOTORIZED DAMPER(S) AT LOUVER SERVING SAME ROOM OR SPACE
- GENERAL FAN NOTES:**
- MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER WIRING BY ELECTRICAL CONTRACTOR.
  - ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO THE NATIONAL ELECTRICAL CODE PAR. 430-32.
  - FIELD ADJUST OPENINGS WITH STRUCTURE.
  - SEE PROJECT PLANS AN SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
  - ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECIFICATIONS.

**DUCTLESS AIR CONDITIONING SPLIT SYSTEM SCHEDULE**

MARK	MITSUBISHI MODEL		NOMINAL TONNAGE	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	HEATING @ 47°F MBH	SEER/HSPF	ENTRERING DB/WB °F	LEAVING DB/WB °F	VOLTAGE PHASE V/NO	MCA/MOCP AMPS		WEIGHT LBS		DIMENSIONS IN		NOTES
	OUTDOOR	INDOOR										OUTDOOR	INDOOR	OUTDOOR	INDOOR	OUTDOOR	INDOOR	
DSS-1	MUZ-GE12	MSZ-GE12	1.0	12.0	9.3	320	14.4	20.5/10	75/64	55/54	208/1	12/15	1.0/15	77	22	32x12x22	32x9x12	ALL NOTES APPLY

- NOTES:**
- APPROVED EQUAL MANUFACTURER: CARRIER, DAIKIN, LG
  - COOLING CAPACITIES BASED ON STANDARD AHRI CONDITIONS
  - HIGH SIDEWALL INDOOR UNIT. INSTALL REFRIGERANT LINES THROUGH REAR OF UNIT CONCEALED WITHIN WALL. NO EXPOSED PIPING SHALL BE ALLOWED.
  - SUPPLY AIRFLOW CFM BASED ON HIGH SPEED AND DRY COIL
  - HEAT PUMP SYSTEM (HEATING AT 47°F)
  - PROVIDE AND INSTALL INTEGRAL/ACCESSORY CONDENSATE PUMP WITHIN INDOOR UNIT AND WIRE TO UNIT TERMINAL BLOCK PER MANUFACTURER'S INSTRUCTIONS
  - PROVIDE MIN. 30% EFF. FILTER
  - PROVIDE HARD WIRED WALL MOUNTED CONTROLLER
  - INDOOR UNIT POWER SUPPLIED FROM OUTDOOR UNIT



**MECHANICAL NOTES**

- PART 1 - GENERAL**
- A. REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS**
- ALL EQUIPMENT, MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ONE OR MORE THE FOLLOWING:
    - FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017)
    - FLORIDA BUILDING CODE - MECHANICAL (FMC) 6TH EDITION (2017)
    - FLORIDA BUILDING CODE - ENERGY CONSERVATION (FEC) 6TH EDITION (2017)
    - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS (NFPA 90A), 2015 EDITION
    - SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) S5, S2, AND S9
    - AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA) STANDARD 205
    - NATIONAL ELECTRIC CODE (NEC), 2014 EDITION
    - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z10.1-95, Z10.3-95, Z21.5-94, Z21.53-95
    - STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA 72)
- B. SCOPE OF WORK**
- THE CONTRACTOR SHALL VISIT THE JOB SITE AND REVIEW CONSTRUCTION AND VENDOR DRAWINGS FOR ALL TRADES PRIOR TO BID TO BECOME FAMILIAR WITH THE PROJECT AND INTENT OF THE DRAWINGS.
  - THE CONTRACTOR SHALL OBTAIN A PERMIT FOR WORK TO BE COMPLETED AND INCLUDE COST FOR ALL PERMIT FEES, PERMITS, INSPECTIONS AND TESTING IN THE BID.
  - THE CONTRACTOR SHALL PROVIDE ALL NEW MATERIAL IN ACCORDANCE WITH THESE DOCUMENTS AND APPLICABLE SPECIFICATIONS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
  - THE CONTRACTOR SHALL COORDINATE THE MECHANICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTORS' EXPENSE.
  - ALL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER.
  - MECHANICAL PLANS, IN GENERAL, ARE DIAGRAMMATIC IN NATURE AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS.
  - DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
  - THE CONTRACTOR IS EXPECTED TO PROVIDE ALL MATERIAL NECESSARY FOR A COMPLETE OPERATING SYSTEM. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
  - THE CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR DURATION OF THE PROJECT AS REQUIRED BY GENERAL CONTRACTOR.
  - THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD SET OF ANY DEVIATIONS BETWEEN THE WORK AS DESIGNED ON THESE DOCUMENTS AND THAT WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF DRAWINGS SHALL BE KEPT WITH THE GENERAL CONTRACTOR AND TURNED OVER TO OWNER AT PROJECT COMPLETION.
- C. TERMS**
- "EXPOSED", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS EXPOSED TO VIEW INDOORS.
  - "PROVIDE", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS TO FURNISH AND INSTALL COMPLETE.
- D. WARRANTY**
- ALL MATERIAL AND WORK PERFORMED SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
  - CONTRACTOR SHALL PROVIDE COMPRESSOR WARRANTIES FOR FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN SHALL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.
  - ANY CORRECTIONS FOR DEFECTIVE MATERIALS AND/OR INSTALLATION SHALL BE MADE AT THE CONTRACTORS EXPENSE DURING THE WARRANTY PERIOD.

- PART 2 - PRODUCTS**
- A. EQUIPMENT**
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
- B. DUCTWORK**
- ALL EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN.
  - ALL INSULATION SHALL MEET 25/50 FLAME SPREAD SMOKE DEVELOPED REQUIREMENTS.
  - DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- C. DAMPERS**
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE. SQUARE ELBOWS, AND TEES SHALL BE FURNISHED WITH SINGLE FOIL TURNING VANES.
  - PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
- D. PIPING**
- REFRIGERANT PIPING
    - LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCUP SERIES COPPER-PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL.
    - SIZE PER MANUFACTURER'S RECOMMENDATIONS.
    - ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES. PIPING INSULATION SHALL MEET THE REQUIREMENTS OF 2017 FECC TABLE C403.2.10.
    - ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV RESISTANT PAINT OR ALUMINUM SHIELD.
- E. AIR DEVICES**
- ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT, UNLESS NOTED OTHERWISE.
  - OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR VENT.

- PART 3 - EXECUTION**
- A. COORDINATION**
- THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL, PLUMBING, AND VENDOR DOCUMENTS AND SUBMITTALS PRIOR TO PURCHASING MECHANICAL EQUIPMENT. COORDINATE ALL CONTROL WIRING REQUIRED FOR ALL EQUIPMENT RELATED TO THE PROJECT.
  - THE CONTRACTOR SHALL COORDINATE THE MECHANICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTORS' EXPENSE.
  - THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" MAX. AFF PER A.D.A REQUIREMENTS WHERE APPLICABLE.
- B. INSTALLATION**
- MECHANICAL EQUIPMENT SHALL BE PROTECTED FROM PHYSICAL DAMAGE WITH PERMANENT BARRIERS (BOLLARDS AND/OR CORNER GUARDS).
  - LABEL ALL EQUIPMENT WITH A PERMANENTLY ATTACHED EXTERIOR STENCIL ENAMEL IDENTIFICATION WITH 2" MIN. HIGH LETTERS. LABEL SHALL BE UV RESISTANT MATERIAL.
  - ALL EXPOSED DUCTWORK SHALL BE PAINTED TO MATCH EXPOSED SURFACE OR AS DIRECTED BY ARCHITECT.
  - THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUXILIARY SUPPORT STEEL, HOUSEKEEPING PADS, AND CONCRETE PADS.

**LOUVER SCHEDULE**

MARK	RUSKIN MODEL	SERVING SPACE	SIZE W x H IN	FREE AREA SQ.FT.	AIR FLOW CFM	VELOCITY FPM	BOTTOM ELEVATION FT	NOTES
LV-1	ELC-6375DAX	ADA TOILET ROOM	12x12	0.19	150	790	9	ALL NOTES APPLY

- NOTES:**
- PROVIDE BIRD SCREEN.
  - PROVIDE BAKED ENAMEL FINISH. COLOR TO MATCH BLDG EXTERIOR OR AS DIRECTED BY ARCHITECT.
  - PROVIDE COLOR SAMPLE FOR APPROVAL.
  - PROVIDE DRAINABLE BLADES.
  - COORDINATE FINAL LOCATION AND ELEVATION WITH ARCHITECT.
  - PROVIDE ACTUATOR AND INTERLOCK WITH ASSOCIATED EXHAUST FAN.
  - PROVIDE HURRICANE IMPACT RESISTANT APPROVED LOUVER. LOUVER MUST COMPLY WITH AMCA 550.

**COORDINATION NOTE:**

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

**MECHANICAL SHEET INDEX**

SHEET#	DESCRIPTION
M-001	MECHANICAL NOTES
M-201	MECHANICAL PLAN

**MECHANICAL LEGEND**

	NEW SCOPE OF WORK
	REFRIGERANT PIPING
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	ISOLATING GATE OR BALL VALVE
	RECTANGULAR DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	ROUND DUCTWORK OR FLUE PIPING
	NEW FLEXIBLE ROUND DUCT
	ADJUSTABLE DEFLECTOR VANES AT BRANCH DUCT
	SQUARE DUCT ELBOW WITH TURNING VANES
	FIRE DAMPER IN DUCT THROUGH WALL
	AUTOMATIC (MOTORIZED) CONTROL DAMPER
	MANUAL VOLUME DAMPER
	SPIN-IN TAP
	CEILING EXHAUST FAN
	WALL MOUNTED THERMOSTAT WITH TEMPERATURE SENSOR
	CONTROL WIRING - LOW VOLTAGE (24V)
	CONTROL WIRING - LINE VOLTAGE (120V+)
	DOOR GRILLE

**MECHANICAL ABBREVIATION LEGEND**

AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
DB	DRY BULB	MIN	MINIMUM
DIA, Ø	DIAMETER	NA	NOT APPLICABLE
DX	DIRECT EXPANSION	OA	OUTDOOR AIR
EA	EXHAUST AIR	RA	RETURN AIR
EER	ENERGY EFFICIENCY RATING	RH	RELATIVE HUMIDITY
EFF	EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
FLA	FULL LOAD AMPERAGE	SEER	SEASONAL ENERGY EFFICIENCY RATING
FT	FEET	SQ. FT.	SQUARE FEET
H	HEIGHT	TEMP	TEMPERATURE
HP	HORSEPOWER	TYP	TYPICAL
HSPF	HEATING SEASONAL PERFORMANCE FACTOR	UC	UNDERCUT DOOR 3/4"
IEER	INTEGRATED ENERGY EFFICIENCY RATING	V	VOLTS
IN	INCHES	W	WIDTH
IN. WG	INCHES WATER GAUGE	WB	WET BULB
kw	KILOWATTS	°F	DEGREES FAHRENHEIT

**AIR DISTRIBUTION SCHEDULE**

TAG	TITUS MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	NOISE CRITERIA	NOTES
BB	PAR	12x12	-	STEEL	LAY-IN	SEE NOTE 2	30	1,2,3,5,12,13
FF	CT-700L	18x18	16x16	ALUMINUM	SIDEWALL	WHITE	40	1,2,3,8,14

- SUPPLY AIR DIFFUSER OR REGISTER RETURN/TRANSFER OR EXHAUST AIR GRILLE
- NOTES:**
- APPROVED EQUAL MANUFACTURER: PRICE, CARNES, METALAIRE, NAILOR
  - FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL
  - CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER. VERIFY CEILING SYSTEM FOR EXACT BORDER TYPE, I.E. STANDARD GRID OR NARROW GRID.
  - SQUARE LOUVER FACE CEILING SUPPLY DIFFUSER WITH INSULATED TOP PANEL
  - SQUARE PERFORATED CEILING RETURN REGISTER WITH INSULATED TOP PANEL
  - DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE
  - SIDEWALL RETURN GRILLE
  - SIGHT-PROOF, DOUBLE FLANGED TELESCOPIC DOOR GRILLE
  - LINEAR CEILING DIFFUSER WITH ADJUSTABLE DEFLECTION VANES BEHIND EACH SLOT
  - PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION
  - PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY, 3-WAY OR VERTICAL ONLY WHERE INDICATED ON PLANS.
  - PROVIDE STEEL OPPOSED BLADE VOLUME DAMPER
  - PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW. NOT REQUIRED IN TRANSFER.
  - FRONT BLADES PARALLEL TO SHORT DIMENSION



**PERMIT SET**

Stamp:

Client:  
**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
Fernandina Beach, FL 32034

**Passero Associates**

4730 Casa Cola Way, Suite 208 St. Augustine, FL 32095 (585) 325-1000 Fax: (585) 325-1699  
Principle-In-Charge Project Manager Project Architect Andrew Holesko, C.E.M. Matt Singletary, P.E. Chris Nordone, R.A.

No.	Date	By	Description

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**MECHANICAL NOTES**

**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

Project No.: **20182651.0002**

Drawing No.: **M-001**

Date: **January 2020**

ROBERT W. BOOTH, P.E.  
FLORIDA LICENSE #81847  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: DARIN FRICK  
PHONE 678-246-5162



**PERMIT SET**

Stamp:

Client:  
**Giltz & Associates**  
 4835 Munson St. NW  
 Canton, OH 44718

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**City of Fernandina Beach**



204 Ash Street  
 Fernandina Beach, FL 32034

**Passero Associates**  
 4730 Casa Cole Way, Suite 208 St. Augustine, FL 32095 (585) 325-1000 Fax: (585) 325-1699  
 Principle-In-Charge: Andrew Holesko, C.M.  
 Project Manager: Matt Singletary, P.E.  
 Project Architect: Chris Nardone, R.A.

No.	Date	By	Description

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**MECHANICAL PLAN**

**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
 Town/City: Fernandina Beach  
 County: Nassau State: Florida

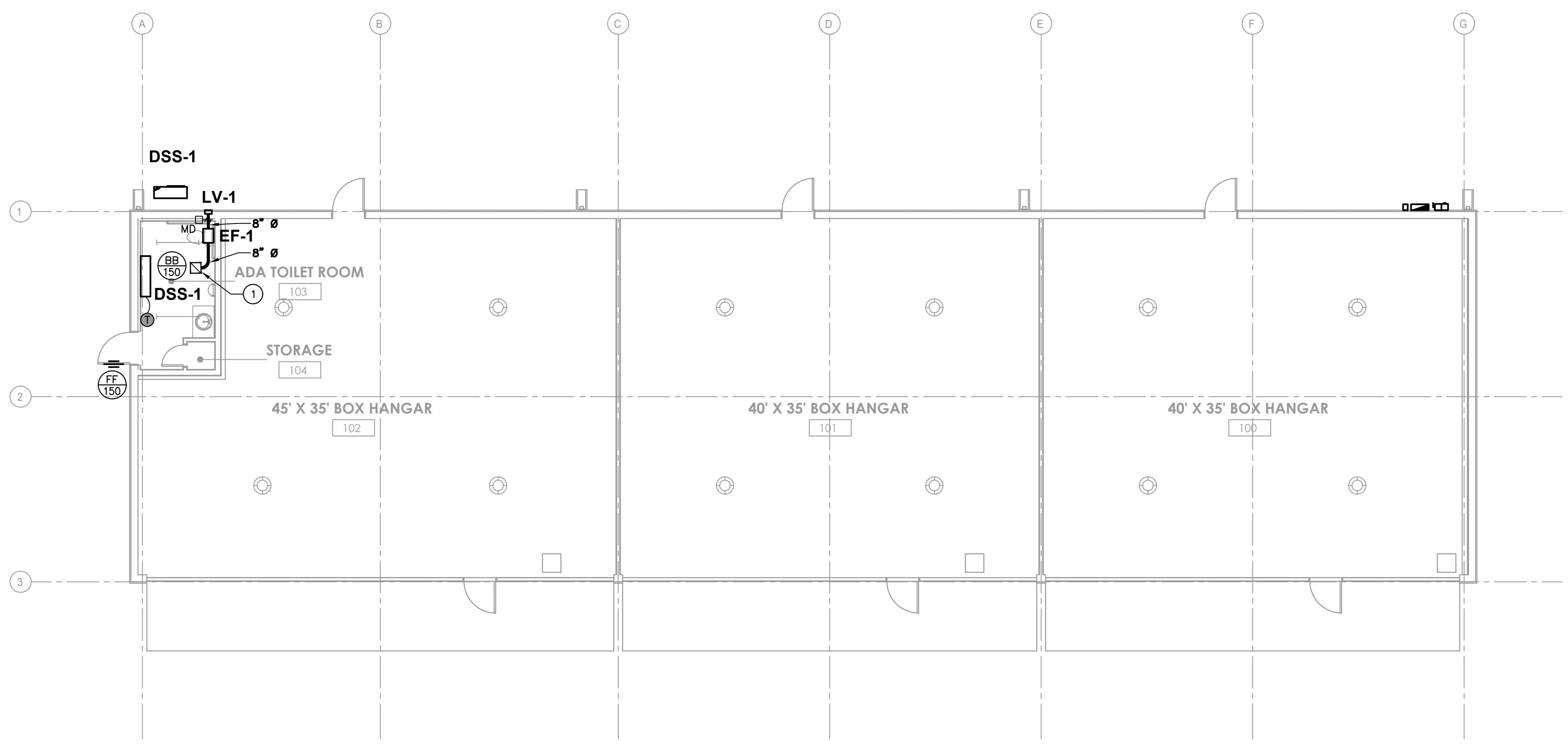
Project No.: **20182651.0002**

Drawing No.: **M-201**

Date: **January 2020**

ROBERT W. BOOTH, P.E.  
 FLORIDA LICENSE #81847  
 4245 LAND RD  
 BALL GROUND, GA 30107  
 PROJECT MANAGER: DARIN FRICK  
 PHONE 678-246-5162

**KEY NOTE**  
 ① PROVIDE CEILING RADIATION DAMPER. REFER TO CEILING RADIATION DAMPER DETAIL ON SHEET M001 FOR REQUIREMENTS.



**1 MECHANICAL PLAN**  
 0' 2' 4' 8' 16'  
 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE									
SYMBOL	LABEL	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES	
			NO.	TYPE	WATT				LUMENS
→	LA	6"x4" LED STRIPLIGHT WITH FULL FROST LENS - WIDE OPTIC, 80 CRI, AND FIRE RATED JUNCTION BOX DOME. EATON SHLED SERIES	-	LED	35	4,214	120	CEILING SUSPENDED Ø 9'-0"	①②③
⊙	LB	15" DIAMETER LED HIGH BAY FIXTURE WITH BLACK FINISH. TOPAZ LIGHTING F-LUMB SERIES	-	LED	200	30,000	UNV	CEILING SUSPENDED Ø 16'-0"	①②③
⊞	WM1	SEMI-CUT OFF EXTERIOR LED WALL PACK. EATON D455-LED-200-41-UNV	-	LED	200	26,000	UNV	WALL SURFACE Ø 17'-0"	②④

**GENERAL NOTES:**

- EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.
- PROVIDE COMPATIBLE EMERGENCY BATTERY PACK WITHOUT LAMPS (DUAL-LITE LM SERIES OR EQUAL) FOR ALL REMOTE HEAD TYPE EMERGENCY FIXTURES. INSTALL ON INTERIOR SIDE OF WALL AND LOCATE ABOVE ACCESSIBLE CEILING WHEN CEILINGS ARE PRESENT.
- COORDINATE EXACT LOCATION AND FINISH OPTIONS OF ALL EMERGENCY REMOTE TEST SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN AND CONNECT FOR OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR SECURING ANY SUSPENDED LIGHT FIXTURE(S) WHICH SWAY OR MOVE DUE TO AIR PRODUCING MECHANICAL EQUIPMENT OR EXTERIOR WIND WITH RIGID SUPPORT(S).
- FINISHES OF ALL FIXTURES INDICATED IN THIS SCHEDULE SHALL MATCH THE FINISH ADJACENT TO THE CEILING/WALL THE FIXTURE IS MOUNTED IN/ON UNLESS NOTED OTHERWISE. PROVIDE CUSTOM COLOR FINISH IF FINISH REQUIRED IS NOT A STANDARD FIXTURE OPTION.
- ALL LINEAR FIXTURES INSTALLED IN A 4"x4" CEILING SYSTEM SHALL BE MOUNTED SO THAT THE BOTTOM OF THE FIXTURE IS FLUSH WITH THE CEILING SYSTEM. REGRESSED MOUNTING OF FIXTURES SHALL NOT BE ACCEPTABLE. PROVIDE CREE CR-HDC MOUNTING CLIP KIT AS REQUIRED.

**NOTES:**

① VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.      ③ MOUNT FIXTURE AT HEIGHT AS INDICATED (BOTTOM OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.

② VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.      ④ MOUNT FIXTURE AT HEIGHT AS INDICATED (CENTER OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.

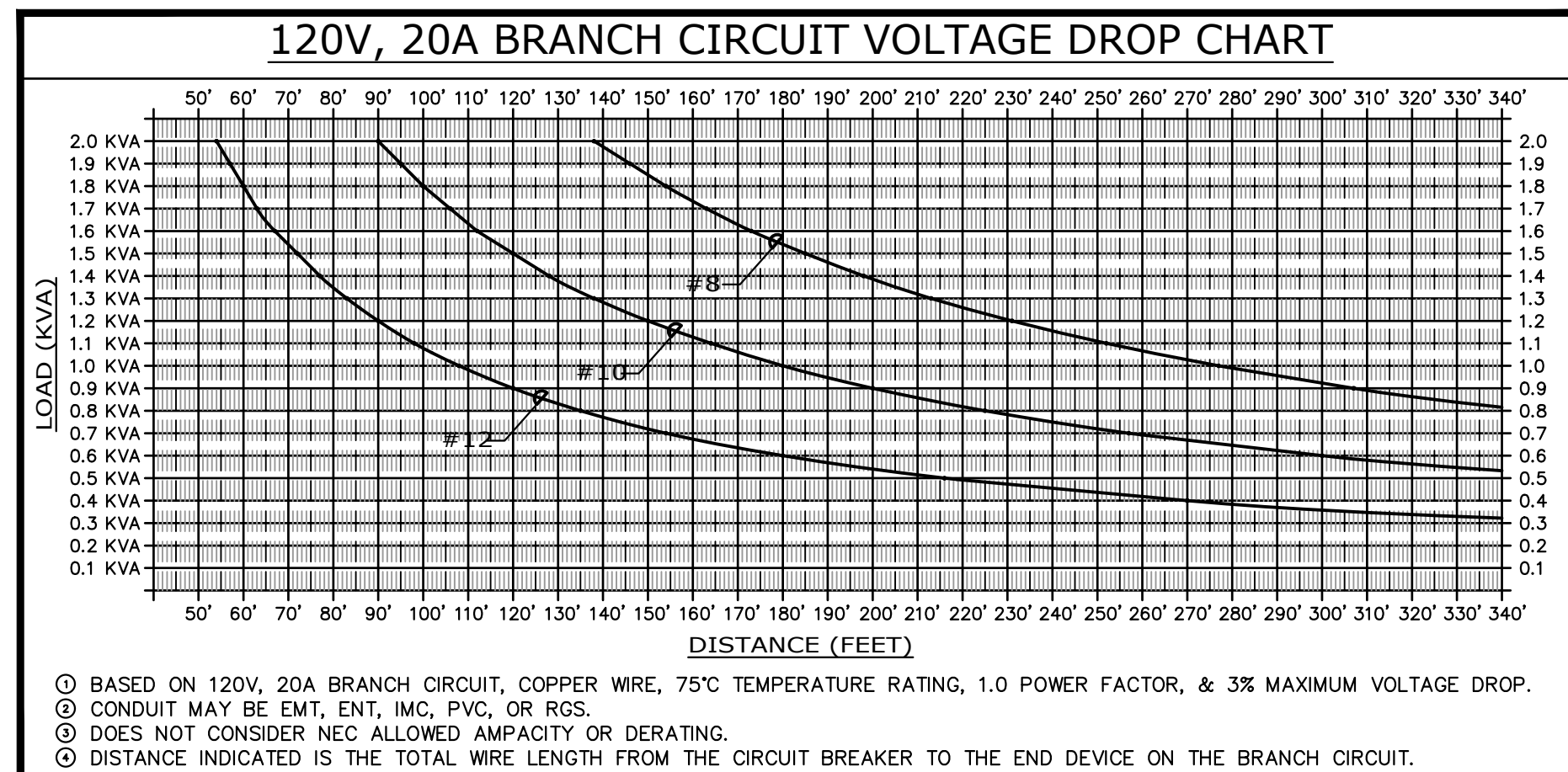
EMERGENCY LIGHTING FIXTURE SCHEDULE									
SYMBOL	LABEL	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES	
			NO.	TYPE	WATT				LUMENS
⊞	EX1	LED COMBINATION EXIT / EMERGENCY FIXTURE WITH RED LETTERING, STANDARD MODEL, AND SELF-DIAGNOSTICS. DUAL LITE LT SERIES	2	LED	3	-	UNV	WALL SURFACE	
⊞	EX2	PHOTOLUMINESCENT EXIT SIGN WITH RED LETTERING AND ABS THERMOPLASTIC CONSTRUCTION. DUAL LITE DPL SERIES	-	-	-	-	-	WALL SURFACE	
⊞	EM1	13"Wx5"Dx5"H EMERGENCY FIXTURE WITH 30 WATT CAPACITY, LEAD-CALCIUM BATTERY, STANDARD MODEL, AND SELF-DIAGNOSTICS. DUAL LITE LZ SERIES	2	LED	3	-	UNV	WALL SURFACE	
⊞	EM5	11"Wx3"Dx7"H LED NORMAL / EMERGENCY FIXTURE WITH WET LOCATION RATING. DUAL LITE PGN SERIES	-	LED	17	445	UNV	WALL SURFACE Ø 9'-0"	①

**GENERAL NOTES:**

- EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.
- PROVIDE COMPATIBLE EMERGENCY BATTERY PACK WITHOUT LAMPS (DUAL-LITE LM SERIES OR EQUAL) FOR ALL REMOTE HEAD TYPE EMERGENCY FIXTURES. INSTALL ON INTERIOR SIDE OF WALL AND LOCATE ABOVE ACCESSIBLE CEILING WHEN CEILINGS ARE PRESENT.
- COORDINATE EXACT LOCATION AND FINISH OPTIONS OF ALL EMERGENCY REMOTE TEST SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN AND CONNECT FOR OPERATION.
- SUSPENDED EXIT SIGNS SHALL BE SUPPORTED WITH PAINTED STEMS AND CONCEALED MOUNTING PLATES BY PENDANT SYSTEMS OR EQUAL. (EXCEPTIONS TO THIS REQUIREMENT INCLUDE WAREHOUSE, STORAGE AND INDUSTRIAL SPACES.)
- EXIT SIGNS LOCATED AT STOREFRONT EXITS AND ADJACENT CEILING IS GREATER THAN 12' A.F.F. SHALL BE INSTALLED CENTERED ON HORIZONTAL MULLION OF THE STOREFRONT SYSTEM ABOVE THE DOORWAY. ALL WIRING SHALL BE CONCEALED WITHIN MULLIONS AND SIGN SHALL BE INSTALLED FLUSH. NO VISIBLE BACK BOXES SHALL BE ALLOWED.

**NOTES:**

① MOUNT FIXTURE AT HEIGHT AS INDICATED (CENTER OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.



ELECTRICAL NOTES	
<b>PART 1 - GENERAL</b>	<b>A. REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS</b>
1.	ALL EQUIPMENT, MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ONE OR MORE THE FOLLOWING: a. NATIONAL ELECTRICAL CODE (NEC), NFPA-70 (2014) b. STATE OF FLORIDA FIRE PREVISION CODE, 6TH EDITION (2017) c. STATE OF FLORIDA BUILDING CODE - ENERGY, 6TH EDITION (2017) d. STATE OF FLORIDA BUILDING CODE - BUILDING, 6TH EDITION (2017) e. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) f. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) g. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) h. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) i. ILLUMINATING ENGINEERING SOCIETY (IES) j. UNDERWRITERS LABORATORIES (UL) k. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72) l. FEDERAL SPECIFICATION (FED. SPEC.) m. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
2.	<b>B. SCOPE OF WORK</b>
1.	THE CONTRACTOR SHALL VISIT THE JOB SITE AND REVIEW CONSTRUCTION AND VENDOR DRAWINGS FOR ALL TRADES PRIOR TO BID TO BECOME FAMILIAR WITH THE PROJECT AND INTENT OF THE DRAWINGS.
2.	THE CONTRACTOR SHALL OBTAIN A PERMIT FOR WORK TO BE COMPLETED AND INCLUDE COST FOR ALL PERMIT FEES, PERMITS, INSPECTIONS AND TESTING IN THE BID.
3.	THE CONTRACTOR SHALL PROVIDE ALL NEW MATERIAL IN ACCORDANCE WITH THESE DOCUMENTS AND APPLICABLE SPECIFICATIONS.
4.	THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES TO THE ARCHITECT/ENGINEER FOR WRITTEN DIRECTION/INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK.
5.	THE CONTRACTOR SHALL NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS.
6.	THE CONTRACTOR IS EXPECTED TO PROVIDE ALL MATERIAL NECESSARY FOR A COMPLETE OPERATING SYSTEM. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
7.	THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
8.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF THEIR WORK.
9.	THE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR.
10.	THE CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR DURATION OF THE PROJECT.
11.	NO COMBUSTIBLE MATERIALS, IE: PVC CONDUIT, NON-PLENUM RATED CABLING, ETC., ARE ALLOWED ABOVE ANY CEILING.
12.	<b>C. TERMS</b>
1.	"PROVIDE", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS TO FURNISH AND INSTALL COMPLETE.
2.	"WRING", AS USED IN THE DOCUMENTS MEANS CONDUIT AND WIRES WITHIN THE CONDUIT SYSTEM.
3.	"CONCEALED", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, BEHIND WALLS, INSIDE CABINETRY OR ABOVE SUSPENDED CEILING.
4.	"NEMA 1", INDICATES THE ENCLOSURE SHALL BE LISTED FOR INDOOR USE ONLY.
5.	"NEMA 3R", INDICATES THE ENCLOSURE SHALL BE LISTED FOR EXTERIOR USE.
6.	"SETS", AS USED FOR SERVICES, FEEDERS AND BRANCH CIRCUITS MEANS PARALLELED AND EACH SET SHALL BE INSTALLED IN SEPARATE CONDUITS.
7.	<b>D. WARRANTY</b>
1.	ALL MATERIAL AND WORK PERFORMED SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
2.	ANY CORRECTIONS FOR DEFECTIVE MATERIALS AND/OR INSTALLATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE DURING THE WARRANTY PERIOD.
3.	<b>E. PRODUCTS</b>
1.	<b>A. DISTRIBUTION AND BRANCH CIRCUIT BOARDS</b>
1.	CURRENT CARRYING BUSES AND GROUND BARS SHALL BE COPPER.
2.	ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE, PLUG ON TYPE CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
3.	ALL CIRCUIT BREAKERS USED FOR MECHANICAL EQUIPMENT SHALL BE "HACR" TYPE.
4.	AIC RATINGS SHALL BE AS INDICATED ON THE BRANCH CIRCUIT PANEL SCHEDULES.
5.	ALL PANEL BOARDS SHALL BE LABELED WITH PLASTIC LAMINATE IDENTIFICATION PLATES THAT ARE ENGRAVED WITH 1/4" LETTERING.
6.	ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN SCHEDULE OF BRANCH CIRCUIT DESCRIPTIONS.
7.	CIRCUIT BREAKERS SHALL MEET ALL PROVISIONS OF NEC 210.12. ALL CIRCUIT BREAKERS (OR OTHER LISTED MEANS) SUPPLYING 120 VOLT, SINGLE PHASE 15 AND 20 AMP OUTLETS OR DEVICES INSTALLED IN GUEST ROOMS, GUEST SUITES, DORMITORY UNITS AND CIRCUITS SUPPLYING OUTLETS AND DEVICES OR SIMILAR ROOMS SHALL BE ARC FAULT CIRCUIT INTERRUPTER TYPE.
8.	<b>B. DISCONNECT SWITCHES AND MOTOR STARTERS</b>
1.	SWITCHES SHALL BE HP, RATED, HEAVY DUTY TYPE.
2.	QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM.
3.	STARTERS SHALL BE COMBINATION TYPE, FUSIBLE WITH BIMETAL OVERLOADS IN EACH PHASE.
4.	STARTERS SHALL HAVE A "HAND-OFF-AUTO" (HOA) SWITCH UNLESS NOTED OTHERWISE.
5.	<b>C. CONDUCTORS</b>
1.	MINIMUM SIZE SHALL BE #12 AWG, EXCEPT FOR CONTROL/LOW VOLTAGE WRING.
2.	INSULATION TYPE SHALL BE THHN.
3.	ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
4.	<b>D. WRING DEVICES (GENERAL PURPOSE)/FACEPLATE</b>
1.	RECEPTACLES SHALL MEET ALL PROVISIONS OF NEC 406.12 (TAMPER-RESISTANT). PROVIDE GROUND FAULT (GFCI), ARC-FAULT, (AFCI) AND WEATHER-RESISTANT (WHERE REQUIRED BY CODE).
2.	PAINTED WOOD LOCATIONS, PROVIDE WHITE DEVICE WITH WHITE FACEPLATE, UNLESS DIRECTED OTHERWISE.
3.	WOOD STAINED AND TILED LOCATIONS, PROVIDE BLACK DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE.
4.	ACM (ALUMINUM COMPOSITE PANEL) INTERIOR LOCATIONS, PROVIDE GRAY DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE.
5.	FOR EXTERIOR WALL LOCATIONS, PROVIDE ARLINGTON DB SERIES OR EQUIVALENT WITH RECESS STEEL BOX AND WEATHERPROOF IN-USE, LOW PROFILE CLEAR COVER, WHITE TRIM.
6.	<b>E. JUNCTION BOXES</b>
1.	INTERIOR LOCATIONS SHALL BE PRESSED STEEL.
2.	EXTERIOR LOCATIONS SHALL BE HEAVY DUTY CAST ALUMINUM WITH THREADED HUBS.
3.	<b>F. CONDUIT</b>
1.	EMT SHALL BE SCHEDULED 40 WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
2.	PVC SHALL BE SCHEDULE 80 WHERE EXPOSED TO PHYSICAL DAMAGE.
3.	PVC SHALL BE SCHEDULE 40 WHERE EXPOSED TO PHYSICAL DAMAGE.
4.	MC CABLE IS ACCEPTABLE WITH LIGHTWEIGHT ALUMINUM INTERLOCKED ARMOR AND INTERNAL REDUNDANT GROUND.
5.	<b>G. COLOR CODING FOR CONDUCTORS SHALL BE THE FOLLOWING:</b>
1.	240/120 VOLT, SINGLE PHASE, THREE WIRE SYSTEM: A PHASE-BLACK, B PHASE-RED, GROUNDING (NEUTRAL)-WHITE AND GROUNDING-GREEN.
2.	CONDUCTORS FOR SERVICES AND BRANCH CIRCUITS #6 AND LARGER SHALL BE IDENTIFIED CONSISTENTLY BY: COLOR CODING, MARKING TAPE OR OTHER APPROVED MEANS.
3.	<b>H. WRING METHODS</b>
1.	CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE. CONNECTORS AND FITTINGS SHALL BE STEEL SET SCREW OR COMPRESSION TYPE.
2.	PVC, AS INDICATED IN PART 2-PRODUCTS (F) SHALL BE INSTALLED BELOW SLAB, UNDERGROUND AND EXPOSED WHERE LISTED FOR SUCH USE.
3.	MC CABLE, AS INDICATED IN PART 2-PRODUCTS (F) IS ACCEPTABLE FOR USE WITH GENERAL BRANCH CIRCUITS, RATED 20 AMPERES OR LESS, CONCEALED IN WALLS AND ABOVE SUSPENDED CEILING, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT IS NOT INTENDED TO USE MC CABLE EXPOSED.
4.	INSTALLATIONS WITHIN HAZARDOUS (CLASSIFIED) LOCATIONS SHALL MEET ALL REQUIREMENTS FOR THE LOCATION PER NEC 500. PENETRATIONS INTO CLASSIFIED LOCATIONS SHALL BE PROVIDED WITH SEALS AND ALL RACEWAYS WITHIN CLASSIFIED LOCATIONS SHALL BE RIGID STEEL. ALL ELECTRICAL EQUIPMENT INSTALLED IN CLASSIFIED AREAS SHALL BE LISTED FOR USE WITHIN THE LOCATION.
5.	ALL CONDUITS SHALL BE INSTALLED WITHIN WALL SYSTEM. NO EXPOSED VISIBLE CONDUITS SHALL BE ALLOWED. FOR CONCRETE MASONRY UNIT WALLS (CMU) THE CONDUIT SHALL BE INSTALLED WITHIN VERTICAL CELLS OF BLOCKS AND FOR PRE-ENGINEERED METAL BUILDING WALLS (PEMB) THE CONDUIT SHALL BE INSTALLED BEHIND WALL PANEL.
6.	<b>I. MISCELLANEOUS</b>
1.	LAY-IN TYPE LIGHTING FIXTURES SHALL BE SECURED ON ALL FOUR SIDES TO SUSPENDED CEILING.
2.	CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED IN THE PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF CIRCUIT BREAKER SIZE, WHICH EVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL CIRCUIT RUNS IN EXCESS OF 100 FT. FOR CALCULATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE SIZE BY ONE FOR CIRCUIT RUNS BETWEEN 100 FT. AND 200 FT. AND TWO WIRE SIZES FOR CIRCUIT RUNS GREATER THAN 200 FT.
3.	<b>D. GROUNDING</b>
1.	THE ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED PER THE LATEST EDITION OF THE NEC AND LOCAL CODES. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER.
2.	<b>E. COORDINATION</b>
1.	THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO STARTING WORK FOR METERING REQUIREMENTS, METERING LOCATION, TRANSFORMER CONDUIT REQUIREMENTS, LUG SIZE REQUIREMENTS AND EXACT SERVICE POINT CONNECTION. SERVICE SHUT DOWN SHALL BE COORDINATED WITH THE OWNER PRIOR TO SCHEDULING WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL CONDUITS FOR UTILITY PRIMARY FEEDER PER UTILITY GUIDELINES.
2.	THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE AND CABLE TV COMPANY PRIOR TO STARTING WORK FOR EXACT SERVICE POINT CONNECTION AND ANY REQUIREMENTS ANY ONE OF THE PROVIDERS MAY NEED.
3.	THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND VENDOR DOCUMENTS AND SUBMITTALS PRIOR TO PURCHASING ELECTRICAL EQUIPMENT. COORDINATE ALL CONTROL WRING REQUIRED FOR ALL EQUIPMENT RELATED TO THE PROJECT. PROVIDE ELECTRICAL BREAKERS, DISCONNECTS AND CONDUCTORS AS REQUIRED PER MECHANICAL SUBMITTALS AND ACTUAL EQUIPMENT NAMEPLATE RATINGS.
4.	THE CONTRACTOR SHALL LOCATE ALL RECEPTACLES, SWITCHES, BREAKERS AND DISCONNECTS ON OR ADJACENT TO EQUIPMENT SERVED. DEVICES SERVING EQUIPMENT IN FINISHED SPACES SHALL BE CONCEALED WITHIN EQUIPMENT ACCESSIBLE THROUGH EQUIPMENT PANELS. I.E. DRINKING FOUNTAINS AND WALL MOUNTED AIR HANDLING UNITS.
5.	<b>F. RECORD DOCUMENTS</b>
1.	THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD SET OF ANY DEVIATIONS BETWEEN THE WORK AS DESIGNED ON THESE DOCUMENTS AND THAT OF WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF DRAWINGS SHALL BE KEPT WITH THE GENERAL CONTRACTOR AND REQUIRE APPROVAL FROM THE ARCHITECT/ENGINEER.

ELECTRICAL SHEET INDEX	
DESCRIPTION	
E-001	ELECTRICAL NOTES
E-201	ELECTRICAL PLANS
E-501	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

ELECTRICAL SYMBOLS	
⊞	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
⊞	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
GFI	GROUND FAULT CIRCUIT INTERRUPTER VIA RECEPTACLE
\$	SINGLE POLE, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
\$3	3-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
⊞	ELECTRICAL PANELBOARD, SURFACE MOUNTED
⊞	FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
⊞	GROUNDING ELECTRODE AND CONDUCTOR SYSTEM
⊞	EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.
⊞	THERMOSTAT LOCATION. REFER TO MECHANICAL DRAWINGS FOR MOUNTING HEIGHT AND SPECIFICATIONS. PROVIDE JUNCTION BOX IN WALL BEHIND THERMOSTAT WITH 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. CONDUIT AND BOXES SHALL BE CONCEALED / RECESSED IN CONCRETE BLOCK (CMU) WALLS.
WP	WEATHERPROOF
(TIE)	USED FOR CLARITY PURPOSES AS FOLLOWS: - TO CONNECT GROUPS OF MULTIPLE DEVICES/LIGHT FIXTURES IN DIFFERENT LOCATIONS TOGETHER ON THE SAME BRANCH CIRCUIT AS INDICATED. - TO INDICATE BRANCH CIRCUIT USED IN DIFFERENT LOCATIONS, FOLLOW KEYNOTES AS INDICATED.



PERMIT SET

Stamp:

Client:  
**Giltz & Associates**  
 4835 Munson St. NW  
 Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
 Fernandina Beach, FL 32034

**Passero Associates**  
 4730 Casa Cole Way, Suite 208 (585) 325-1000  
 St. Augustine, FL 32095 Fax: (585) 325-1699

Principle-In-Charge Andrew Holesko, C.E.M.  
 Project Manager Matt Singletary, P.E.  
 Project Architect Chris Nordone, R.A.

No.	Date	By	Description

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**ELECTRICAL NOTES**

**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
 Town/City: Fernandina Beach  
 County: Nassau State: Florida

Project No.:  
**20182651.0002**

Drawing No.:  
**E-001**

Date:  
**January 2020**

ROBERT W. BOOTH, P.E.  
 FLORIDA LICENSE #81847  
 4245 LAND RD  
 BALL GROUND, GA 30107  
 PROJECT MANAGER: DARIN FRICK  
 PHONE 678-246-5162

PERMIT SET

Stamp:

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**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
Fernandina Beach, FL 32034

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4730 Casa Cole Way, Suite 208 (585) 325-1000  
St. Augustine, FL 32095 Fax: (585) 325-1699  
Principle-In-Charge: Andrew Holesko, C.M.  
Project Manager: Matt Singletary, P.E.  
Project Architect: Chris Nardone, R.A.

No.	Date	By	Description

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**ELECTRICAL PLANS**

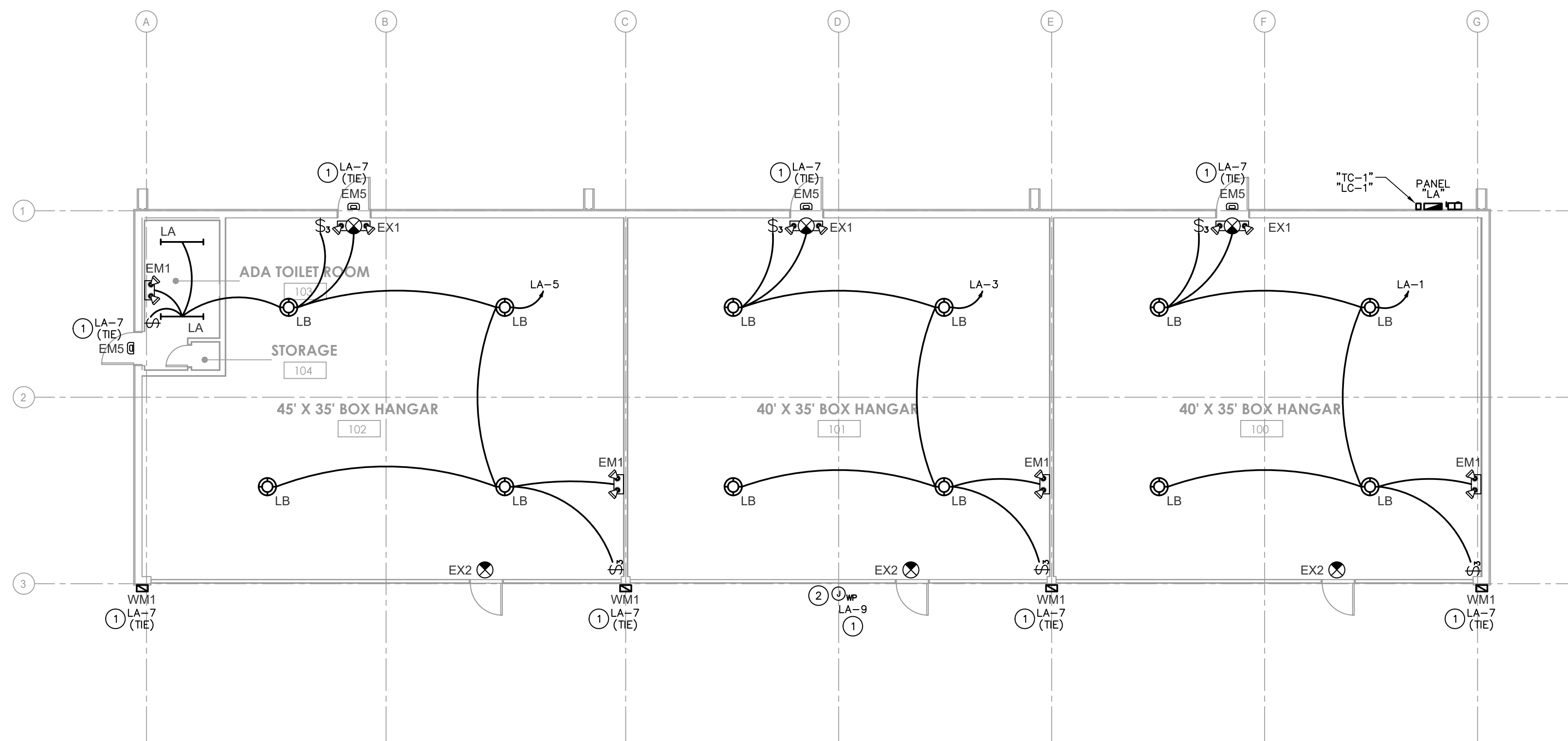
**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

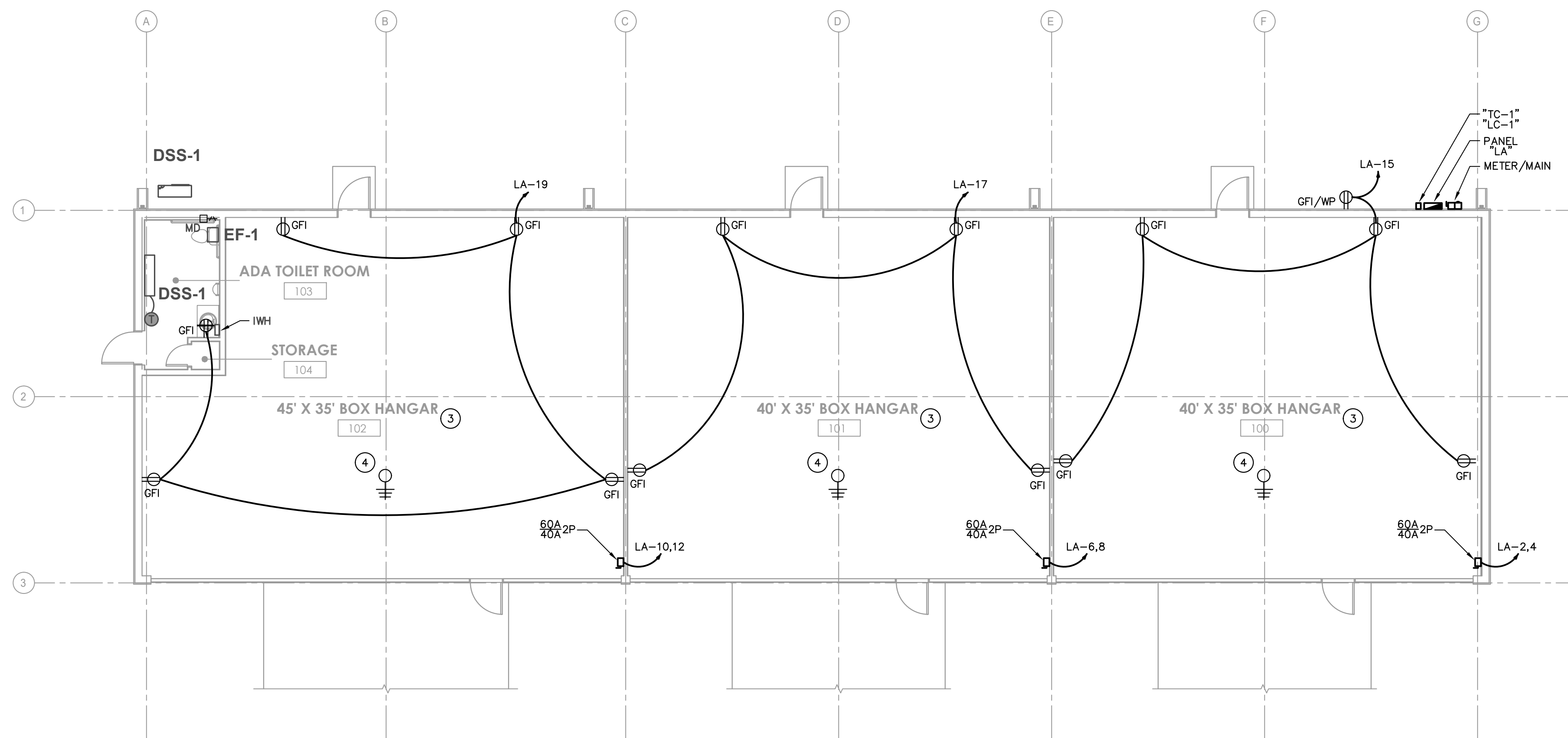
Project No.: **20182651.0002**

Drawing No.: **E-201**

Date: **January 2020**



**1 LIGHTING PLAN**  
0' 2' 4' 8' 16'  
1/8" = 1'-0"



**1 POWER PLAN**  
0' 2' 4' 8' 16'  
1/8" = 1'-0"

- KEY NOTES**
- 1 WIRE CIRCUIT THRU TIME CLOCK "TC-1" AND LIGHTING CONTACTOR "LC-1". REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E-001 FOR REQUIREMENTS.
  - 2 JUNCTION BOX FOR ELECTRICAL CONNECTION TO BUILDING SIGNAGE. BRANCH PANEL CIRCUIT BREAKER WITH LOCKABLE CLIP SHALL SERVE AS DISCONNECTING MEANS FOR BUILDING SIGNAGE PER NEC ARTICLE 600.6(A)(3)(3).
  - 3 EXISTING COMMUNICATION LINES UNDER SLAB TO BE RELOCATED THIS AREA. COORDINATE NEW ROUTING WITH UTILITY COMPANY AND CONNECT FOR OPERATION.
  - 4 PROPOSED LOCATION OF AIRCRAFT GROUND, FLOOR RECEPTACLE. 3/0 BOND TO SLAB REINFORCEMENT STEEL, 3 ACORN NUTS ON 20" LENGTH. HARGAR MODEL #351-5T OR EQUAL

**MECHANICAL EQUIPMENT-ELECTRICAL SCHEDULE**

EQUIPMENT TAG	BRANCH CIRCUIT	DISCONNECT SWITCH *		MOTOR STARTER *		NOTES
		FRAME	FUSE	POLES	NEMA SIZE	
DSS-1	LA-20,22	30	(2)	2	-	(1)(3)
EF-1	LOCAL LIGHTING CIRCUIT	-	-	-	-	(5)
IWH	LA-24,26	30	-	2	-	(4)
MOTORIZED DAMPERS	-	30	-	1	-	(6)

**KEY NOTES:**

- 1 PROVIDE NEMA 3R ENCLOSURE.
- 2 PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER OR NAMEPLATE RATING.
- 3 WIRE CIRCUIT FROM BREAKER TO CONDENSING UNIT DISCONNECT. WIRE ASSOCIATED AIR HANDLING UNIT FROM CONDENSING UNIT TERMINAL BLOCK. COORDINATE WITH MECHANICAL EQUIPMENT.
- 4 PROVIDE HARDWIRED ELECTRICAL CONNECTION TO UNIT AS REQUIRED. MOUNT JUNCTION BOX AT 20", BOTTOM OF BOX. CIRCUIT BREAKER FEEDING UNIT SHALL BE PROVIDED WITH LOCK OUT DEVICE IN ACCORDANCE WITH NEC AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 5 CONTROL FAN WITH LOCAL LIGHT SWITCH IN ROOM.
- 6 PROVIDE MOTOR RATED SWITCH FOR EACH UNIT INDICATED. MOUNT SWITCH ADJACENT TO EACH UNIT. SEE COORDINATION NOTE BELOW FOR COORDINATION OF DAMPER OPERATION.

**GENERAL MOTORIZED DAMPER NOTE:**  
MOTORIZED DAMPERS TO BE POWERED VIA ORIGINATING BRANCH CIRCUIT OF FAN, UNLESS NOTED OTHERWISE. REFER TO MANUFACTURER WIRING DETAIL FOR REQUIREMENTS. COORDINATE CONTROL OF MOTORIZED DAMPERS AT FAN AND LOUVERS WITH MECHANICAL CONTRACTOR. PROVIDE INTERLOCK AND RELAYS REQUIRED TO OPERATE DAMPERS BASED ON FAN(S) OPERATION SERVING SAME ROOM OR SPACE.

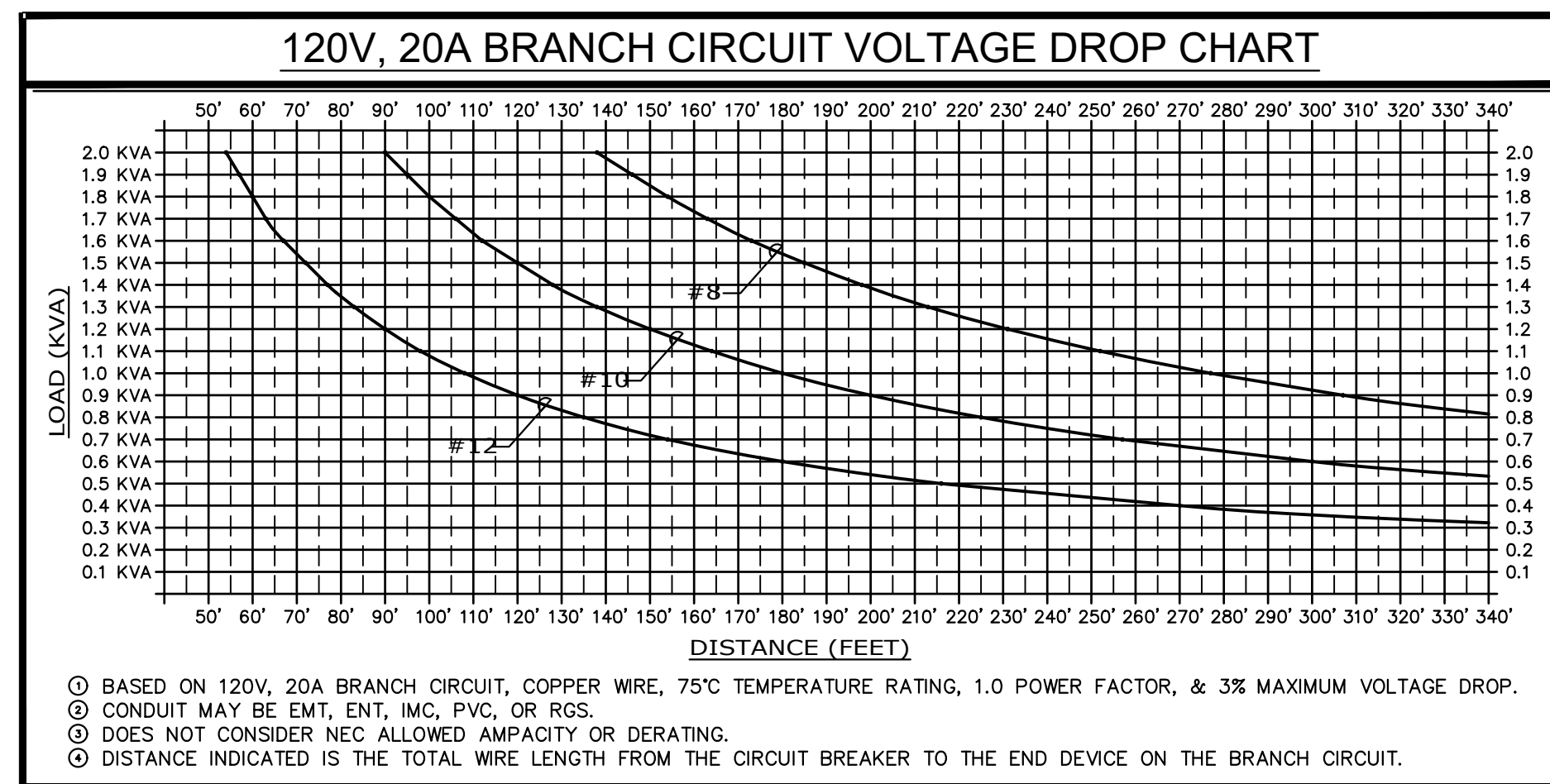
**GENERAL ROOF CU / DSS DISCONNECT MOUNTING NOTE:**  
CONTRACTOR TO PROVIDE INDEPENDENT MOUNTING FROM ROOF STRUCTURE, SEPARATE FROM CU/DSS, WITH UNISTRUT OR OTHER APPROVED METHOD FOR LOCAL DISCONNECT SWITCHES AS REQUIRED.

\* DISCONNECT / MOTOR STARTER TO BE PROVIDED BY THIS CONTRACTOR.

ROBERT W. BOOTH, P.E.  
FLORIDA LICENSE #81847  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: DARIN FRICK  
PHONE 678-246-5162



PASSERO ASSOCIATES  
engineering architecture



### SCHEDULE OF BRANCH CIRCUIT PANEL

CIRCUIT DESCRIPTION	WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	"LA"		CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	AIC SYMMETRICAL: 10,000 VOLTAGE: 240/120V, 1Ø, 3 WIRE	CIRCUIT DESCRIPTION
						A PHASE KVA	B PHASE KVA							
LIGHTING, HANGAR	2#12	1#12	3/4"	20	1	0.8	0.6	2	40	3/4"	1#10	2#8		HANGAR DOOR
LIGHTING, HANGAR	2#12	1#12	3/4"	20	3	0.8	0.6	4	2	3/4"	1#10	2#8		HANGAR DOOR
LIGHTING, HANGAR/RR	2#12	1#12	3/4"	20	5	0.9	0.6	6	2	3/4"	1#10	2#8		HANGAR DOOR
LIGHTING, BLDG EXTERIOR	2#12	1#12	3/4"	20	7	0.9	0.6	8	2	3/4"	1#10	2#8		HANGAR DOOR
LIGHTING, BLDG SIGNAGE	2#12	1#12	3/4"	20	9	1.2	0.6	10	40	3/4"	1#10	2#8		HANGAR DOOR
SPARE	-	-	-	20	11	-	-	12	2	-	-	-		SPARE
SPARE	-	-	-	20	13	-	-	14	20	-	-	-		SPARE
SPARE	-	-	-	20	15	-	-	16	20	-	-	-		SPARE
RECEPT., HANGAR/BLDG EXTERIOR	2#12	1#12	3/4"	20	17	1.0	-	18	20	-	-	-		SPARE
RECEPT., HANGAR	2#12	1#12	3/4"	20	19	-	-	20	15	3/4"	1#12	2#12		DSS-1
RECEPT., HANGAR/RR	2#12	1#12	3/4"	20	21	1.0	1.4	22	2	-	-	-		SPARE
SPARE	-	-	-	20	23	-	-	24	20	3/4"	1#12	2#12		IWH
SPARE	-	-	-	20	25	-	1.5	26	2	-	-	-		SPACE
SPARE	-	-	-	20	27	-	-	28	-	-	-	-		SPACE
SPARE	-	-	-	29	-	-	-	30	-	-	-	-		SPACE
SPARE	-	-	-	31	-	-	-	32	-	-	-	-		SPACE
SPARE	-	-	-	33	-	-	-	34	-	-	-	-		SPACE
SPARE	-	-	-	35	-	-	-	36	-	-	-	-		SPACE
SPARE	-	-	-	37	-	-	-	38	-	-	-	-		SPACE
SPD	2#8	1#10	3/4"	40	39	-	-	40	-	-	-	-		SPACE
						9.6	7.2	KVA TOTAL PER PHASE						
						80	60	AMPS TOTAL PER PHASE						
						16.8		KVA TOTAL						

PERMIT SET

- ### RISER KEY NOTES
- COORDINATE EXACT REQUIREMENTS FOR CONDUITS WITH UTILITY COMPANY PRIOR TO ROUGH IN.
  - EXOTHERMIC CONNECTION. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR, 20 FEET AT MINIMUM, IN BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
  - PROVIDE 10 FOOT BY 3/4" DIAMETER COPPER GROUND ROD, TYPICAL.
  - EXOTHERMIC CONNECTION, TYPICAL.
  - CONNECTION TO METALLIC COLD WATER PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP SUITABLE FOR THIS INSTALLATION.
  - PROVIDE 1#2 BONDING JUMPER AROUND FIRST VALVE.
  - PROVIDE 1#2 GROUNDING ELECTRODE CONDUCTOR IN 3/4" SCHEDULE 40 PVC.
  - NEUTRAL BAR.
  - GROUND BAR.
  - PROVIDE SURGE PROTECTION DEVICE (SPD) WITH 200KA SURGE CURRENT RATING IN A NEMA 4 ENCLOSURE, SURFACE MOUNTED. SPD SHALL BE UL 1449, 4TH EDITION LISTED.
  - PROVIDE INTERMATIC "ET1100" SERIES TIME CLOCK "TC-1" IN A NEMA ONE ENCLOSURE.
  - PROVIDE SQUARE D "LG" SERIES ELECTRICALLY HELD CONTACTOR "LC-1" WITH 4-30 AMP RATED POLES AND 120 VOLT COIL IN A NEMA ONE ENCLOSURE.
  - 1#2 SUPPLY SIDE MAIN BONDING JUMPER.
  - 200A, 240V/1Ø SERVICE ENTRANCE RATED, COMBINATION METER / MAIN BY SQUARE D (#SC2040M200C) OR EQUIVALENT.

Stamp:

Client:  
**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
Fernandina Beach, FL 32034

**Passero Associates**  
4730 Casa Cola Way, Suite 208 (585) 325-1000  
St. Augustine, FL 32095 Fax: (585) 325-1699  
Principle-In-Charge: Andrew Holesko, C.M.  
Project Manager: Matt Singletary, P.E.  
Project Architect: Chris Nardone, R.A.

No.	Date	By	Description

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### ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES BOX HANGARS (GILTZ)

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
County: Nassau State: Florida

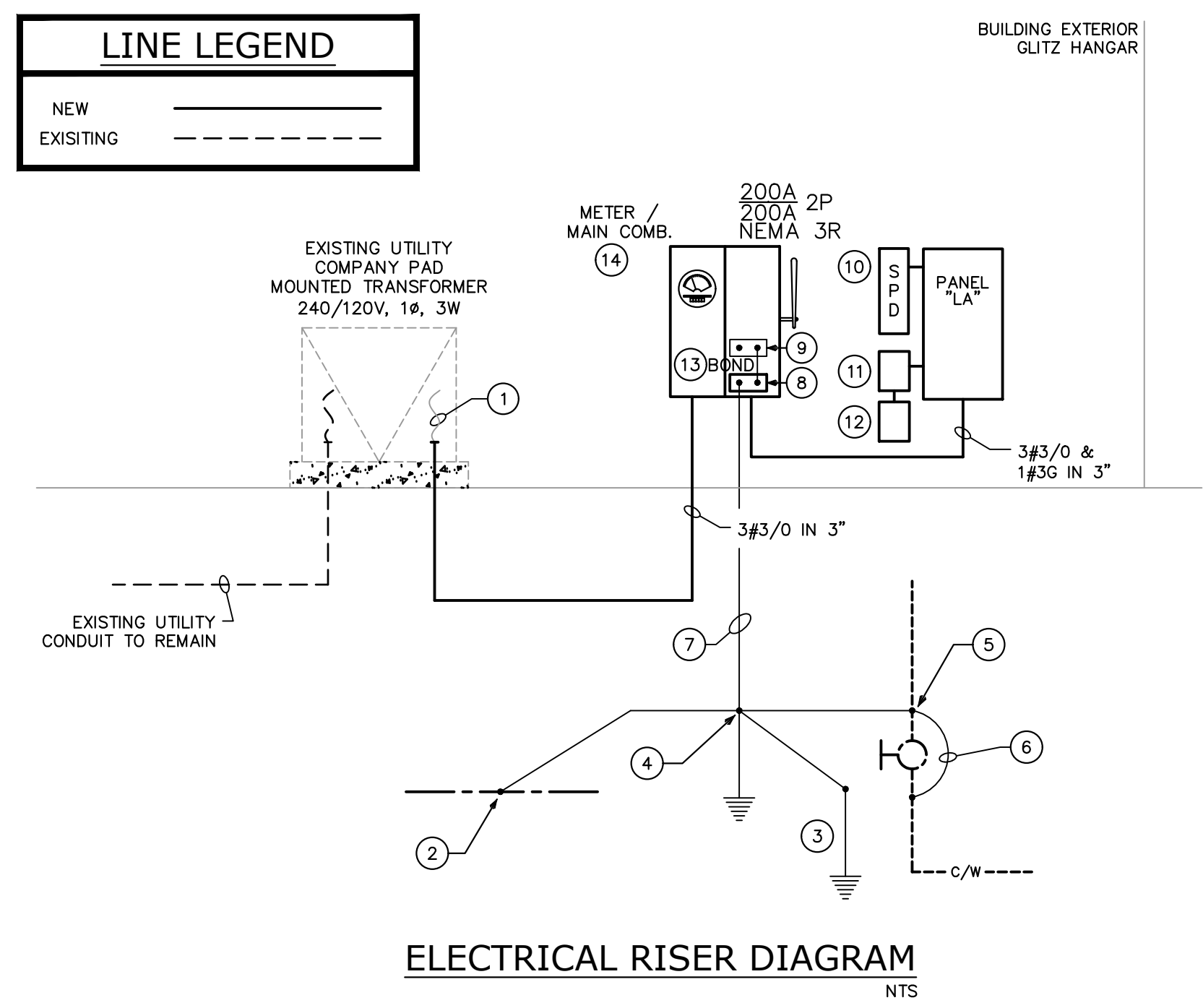
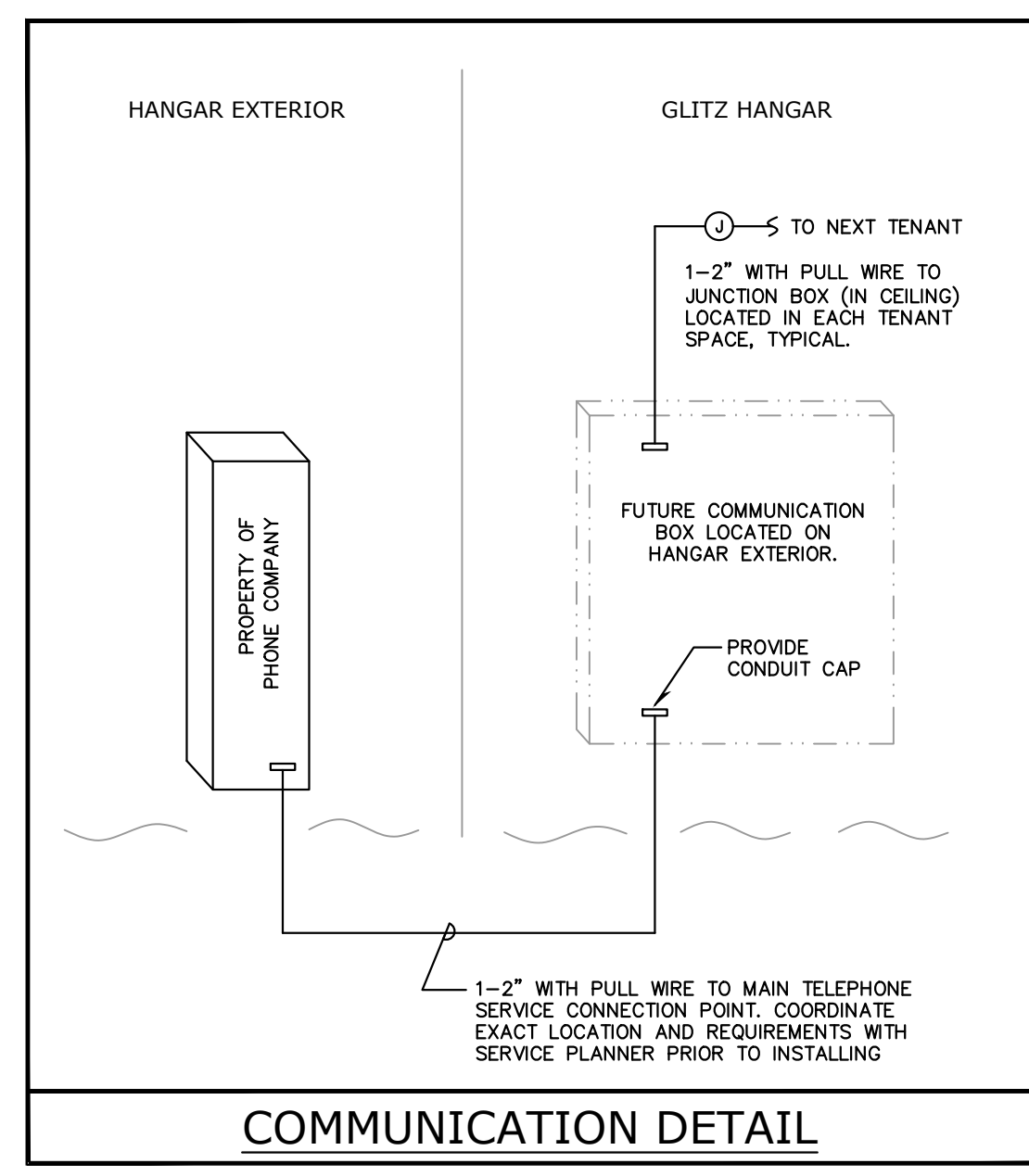
Project No.: **20182651.0002**

Drawing No.: **E-501**

Date: **January 2020**

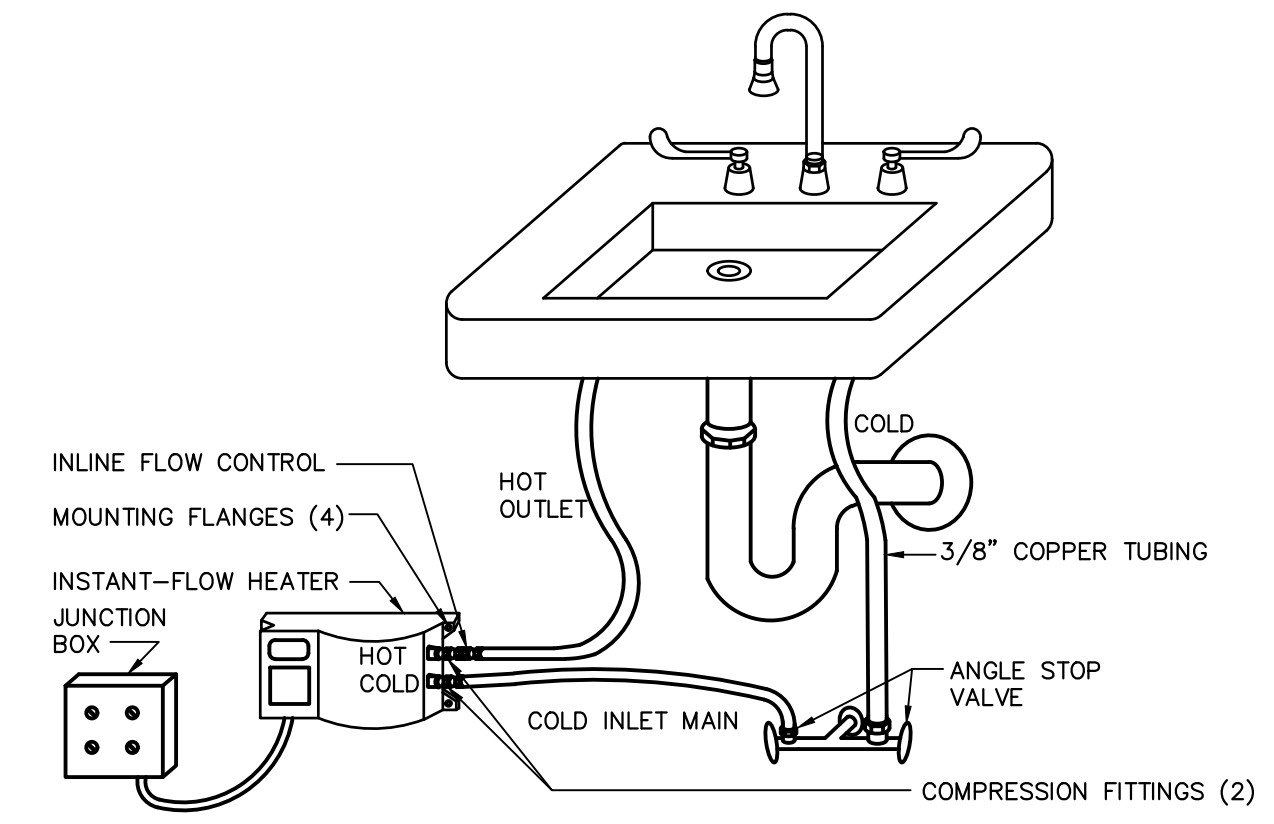
### LINE LEGEND

NEW	—————
EXISTING	- - - - -

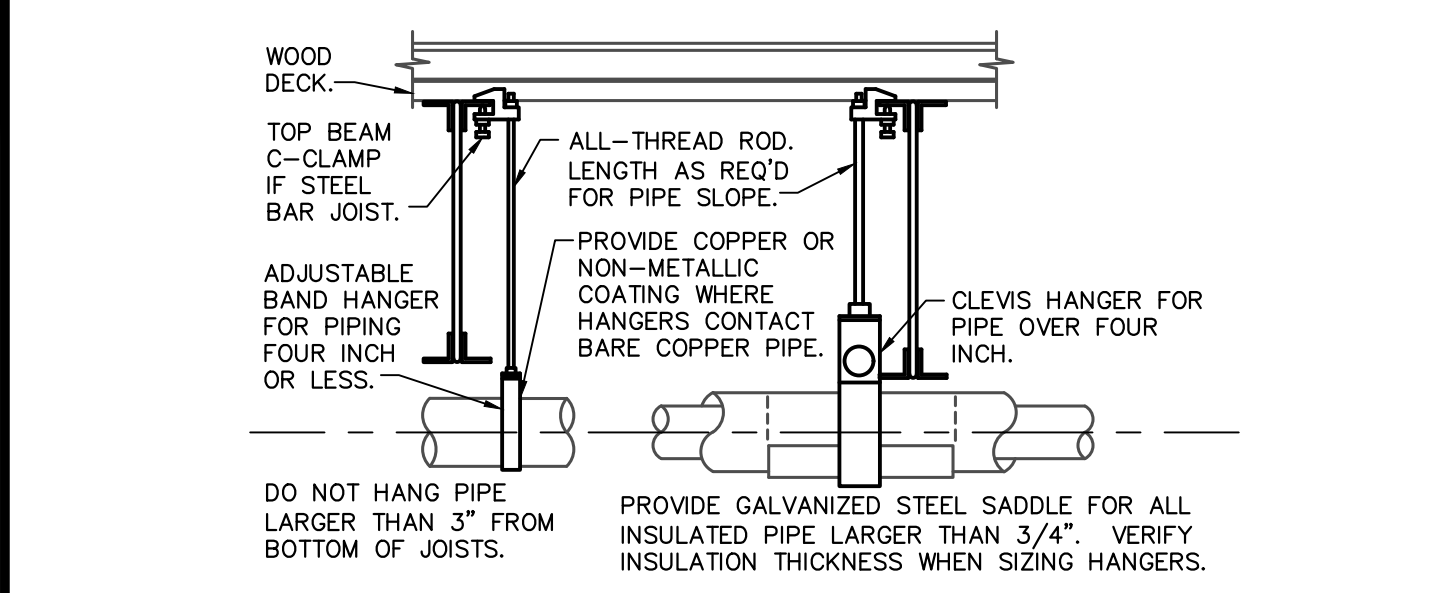


ROBERT W. BOOTH, P.E.  
FLORIDA LICENSE #81847  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: DARIN FRICK  
PHONE 678-246-5162

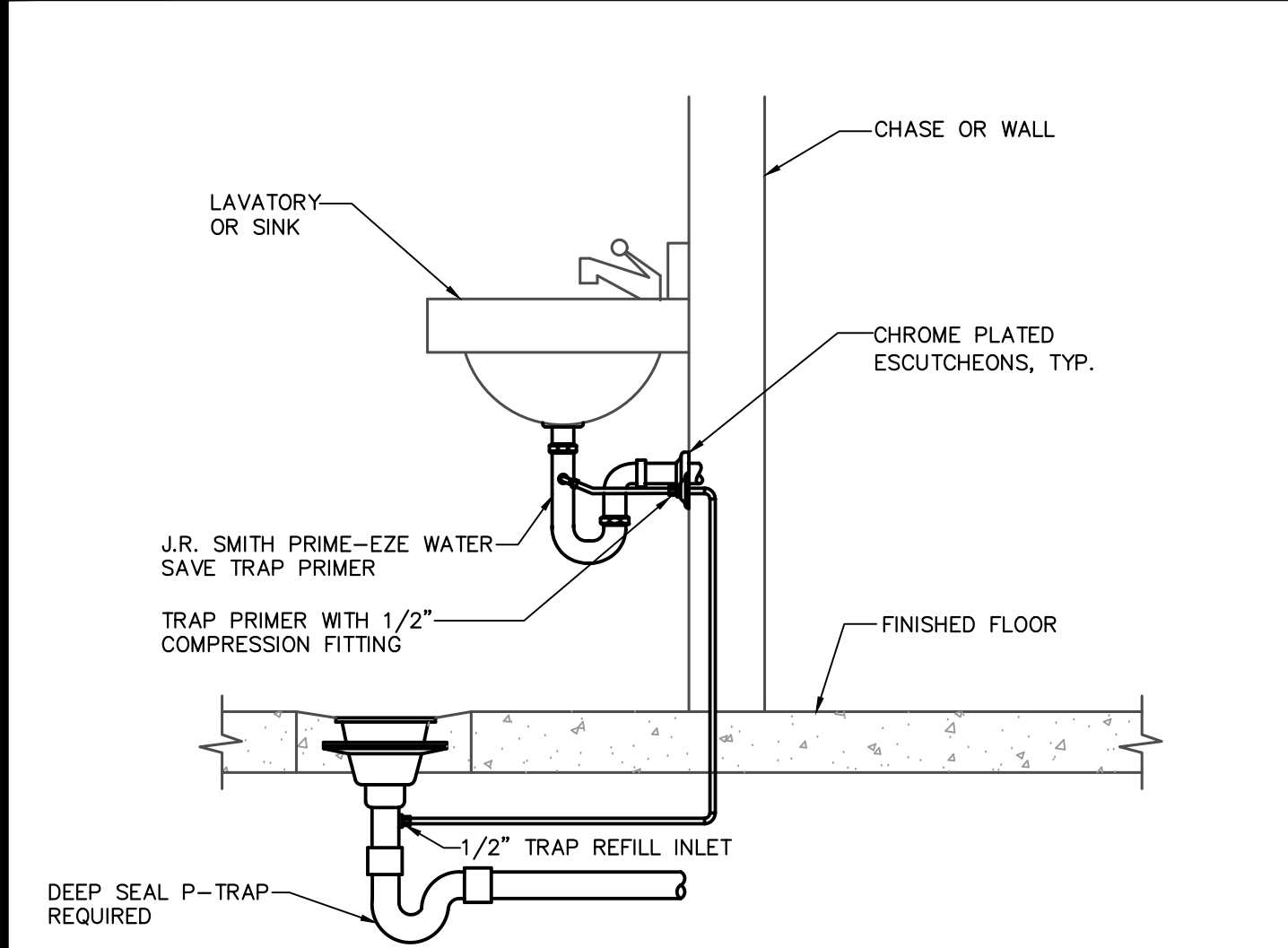
**STANDARD WALL HUNG ADA SINK**



**INSTANTANEOUS WATER HEATER CONNECTIONS**



**PIPE HANGERS DETAIL**



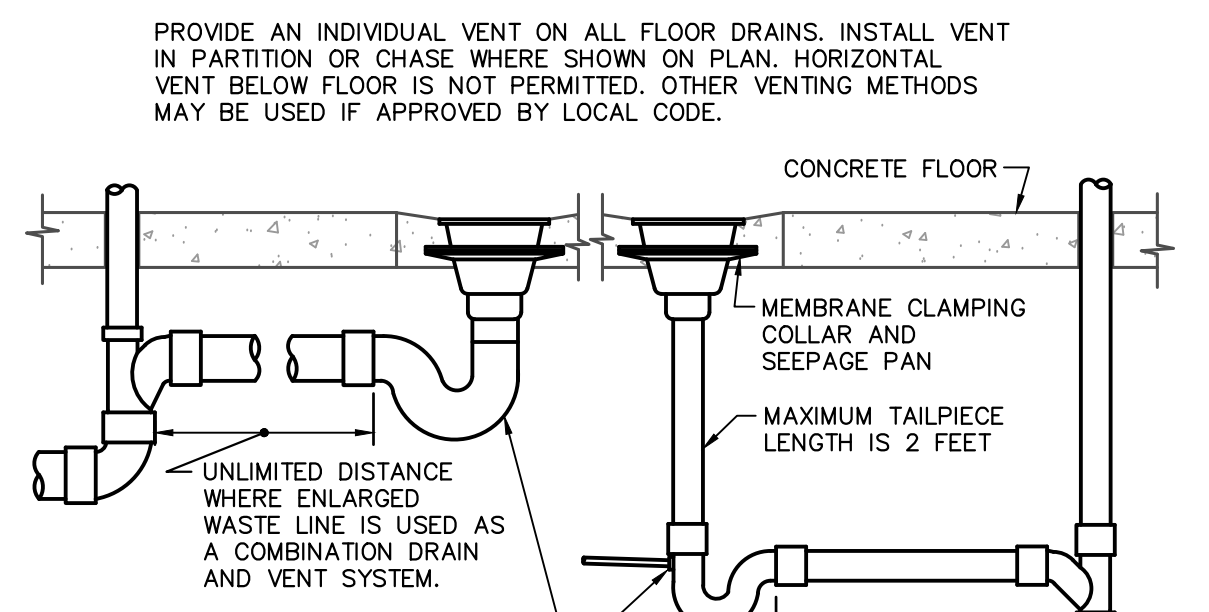
**LAVATORY/SINK PRIMER DETAIL**

**PLUMBING NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) 2017 APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- ALL MATERIALS SHALL BE NEW.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- COORDINATE LOCATION OF ALL PIPING CONNECTIONS TO BUILDING WITH LOCAL UTILITY AND CIVIL ENGINEER. PROVIDE APPROVED BACKFLOW PREVENTION DEVICE, MAIN SHUT-OFF VALVE AND PRESSURE REDUCING VALVE AT WATER SERVICE.
- WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. COORDINATE WITH LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS. PROVIDE ALTERNATE FOR CPVC PIPING EQUAL TO BFGOODRICH "FLOWGUARD GOLD" FOR WATER KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.
- SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED AND LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PDI-WH 201.
- DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
- ISOLATE COPPER PIPING FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
- PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.

**PLUMBING LEGEND**

	SANITARY SEWER PIPING
	DOMESTIC COLD WATER PIPING
	BALL VALVE



**FLOOR DRAIN DETAIL**

**PLUMBING SHEET INDEX**

SHEET#	DESCRIPTION
P-001	PLUMBING NOTES
P-201	PLUMBING PLANS

**PLUMBING EQUIPMENT & FIXTURE SCHEDULE**

HLAV	STANDARD WALL HUNG ADA SINK
HWC	WATER CLOSET, AMERICAN STANDARD CADET ELONGATED, FLOOR MOUNTED, WHITE, 1.28 GPF, OPEN FRONT SEAT. 16-1/2" HEIGHT, MUST MEET A.D.A. CODE. FLUSH LEVER SHALL BE LOCATED ON OPEN SIDE OF TANK AWAY FROM ADJACENT WALL.
UR	URINAL AMERICAN STANDARD WASHBROOK FLOWISE, WALL MOUNTED WITH TOP SPUD #6590.001. FLUSH VALVE SLOAN ROYAL #186-0.5, MANUAL (0.5 GPF)
FD	5"x5" SQUARE GRATE FLOOR DRAIN, WADE MODEL # 1103G5-TY. PROVIDE WITH TRAP PRIMER. FINAL FINISH TO BE COORDINATED WITH ARCHITECT.
WCO	WALL CLEANOUT, WADE MODEL # 8590 TAPPED PLUG WITH 8480R.
IWH	INSTANTANEOUS WATER HEATER - LAVADVANTAGE MODEL SPEX320BT, 208V. 1#, 15A, 3.0KW, 0.2GPM ACTIVATION, POINT-OF-USE MICROPROCESSOR TEMPERATURE CONTROL. NO MIXING VALVE REQUIRED.
HYD	WALL HYDRANT TO BE WOODFORD MODEL B65 WITH BOX, 3/4" STRAIGHT INLET CONNECTION, FREEZELESS. PROVIDE WITH ANTI-SIPHON VACUUM BREAKER. INSTALL 24" AFF.

**GENERAL NOTES:**  
 1. FIXTURES SHALL BE AS SHOWN OR EQUAL.  
 2. ALL FIXTURES SHALL COMPLY WITH TABLE 604.3, 604.4 AND 604.5 OF FBC 2014.  
 3. ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.  
 4. ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.  
 5. THERMOSTATIC MIXING VALVE SHALL BE PROVIDED FOR ALL LAVATORIES WITH HOT WATER DELIVERY SET TO 110°F. A SINGLE MIXING VALVE SHALL BE ACCEPTABLE FOR INSTALLATIONS WITH MULTIPLE LAVATORIES IN SAME LOCATION. MIXING VALVE SHALL COMPLY WITH ASSE 1070.

**PLUMBING SYSTEMS MATERIAL SCHEDULE**

SYSTEM	LINE TYPE	LOCATION	MATERIAL	INSULATION
SANITARY	---	ABOVE AND UNDERGROUND	PVC	NONE
SAN. VENT	---	ABOVE GROUND	PVC	NONE
COLD WATER	---	ABOVE AND UNDERGROUND	TYPE "L" COPPER	1" ARMAFLEX
HOT WATER	---	ABOVE AND UNDERGROUND	TYPE "L" COPPER	1" ARMAFLEX

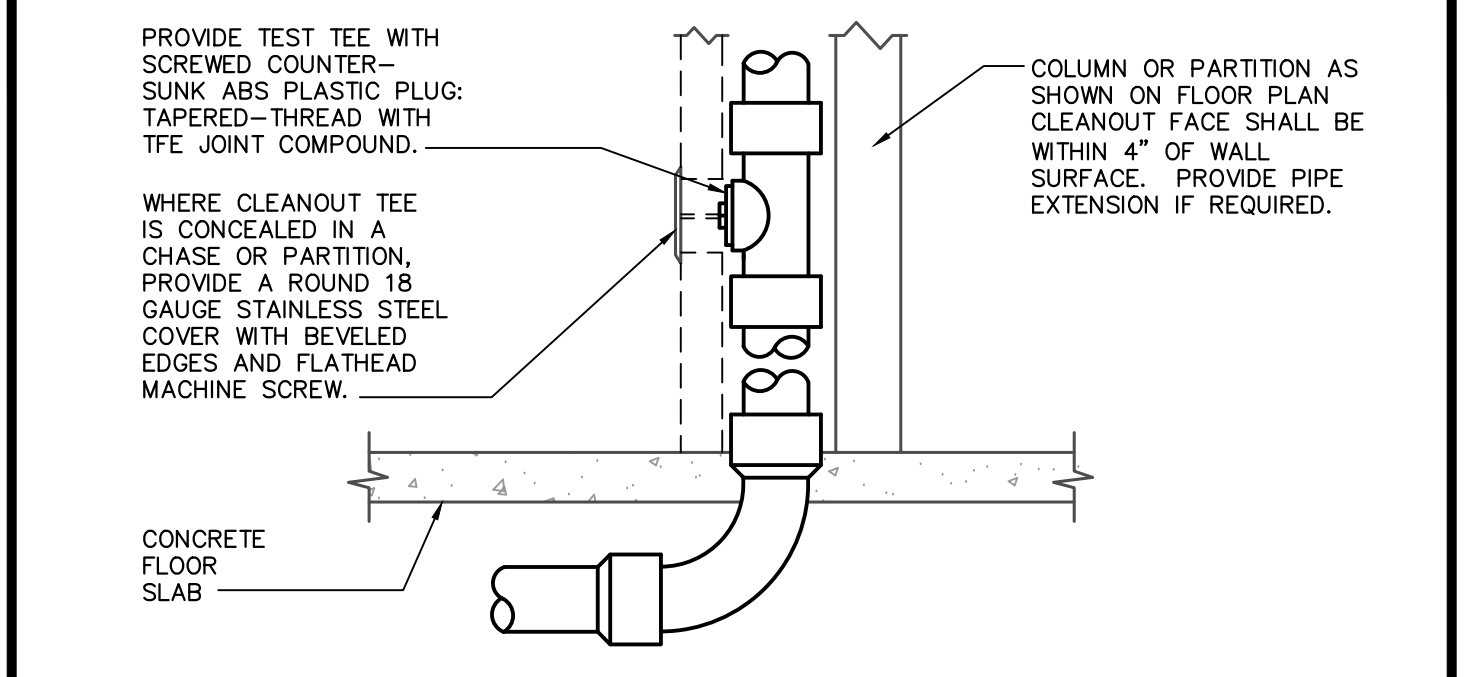
**SLOPE OF HORIZ. DRAINAGE PIPE**

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

**SHOCK ARRESTOR SCHEDULE**

PDI DESIGNATION	SIoux CHIEF MODEL	FIXTURE UNITS	CONNECTION
A	652-A	1-11	1/2"
B	653-B	12-32	3/4"
C	654-C	33-60	1"

TABLE 704.1 OF THE FBC 2017  
 SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.



**WALL CLEANOUT DETAIL**



**PERMIT SET**

Client:  
**Giltz & Associates**  
 4835 Munson St. NW  
 Canton, OH 44718

Owner:  
**City of Fernandina Beach**



204 Ash Street  
 Fernandina Beach, FL 32034

**Passero Associates**

4730 Casa Cola Way, Suite 208 (585) 325-1000  
 St. Augustine, FL 32095 Fax: (585) 325-1699

No.	Date	By	Description

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**PLUMBING NOTES**

**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
 Town/City: Fernandina Beach  
 County: Nassau State: Florida

Project No.: **20182651.0002**

Drawing No.: **P-001**

Date: **January 2020**

ROBERT W. BOOTH, P.E.  
 FLORIDA LICENSE #81847  
 4245 LAND RD  
 BALL GROUND, GA 30107  
 PROJECT MANAGER: DARIN FRICK  
 PHONE 678-246-5162

**PERMIT SET**

Stamp:

Client:  
**Giltz & Associates**  
4835 Munson St. NW  
Canton, OH 44718

Owner:  
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204 Ash Street  
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4730 Casa Cole Way, Suite 208 (585) 325-1000  
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**PLUMBING PLANS**

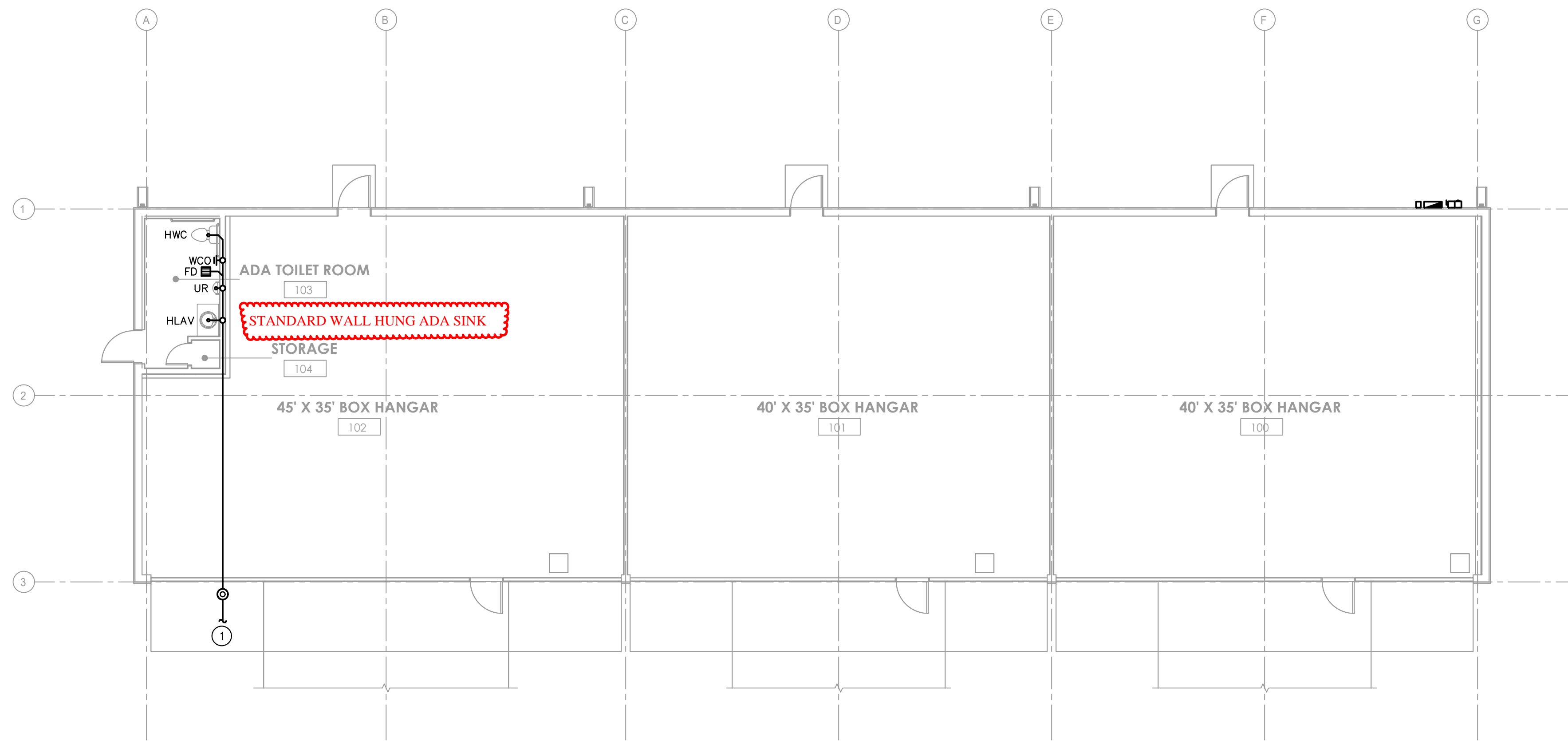
**BOX HANGARS (GILTZ)**

Fernandina Beach Municipal Airport  
Town/City: Fernandina Beach  
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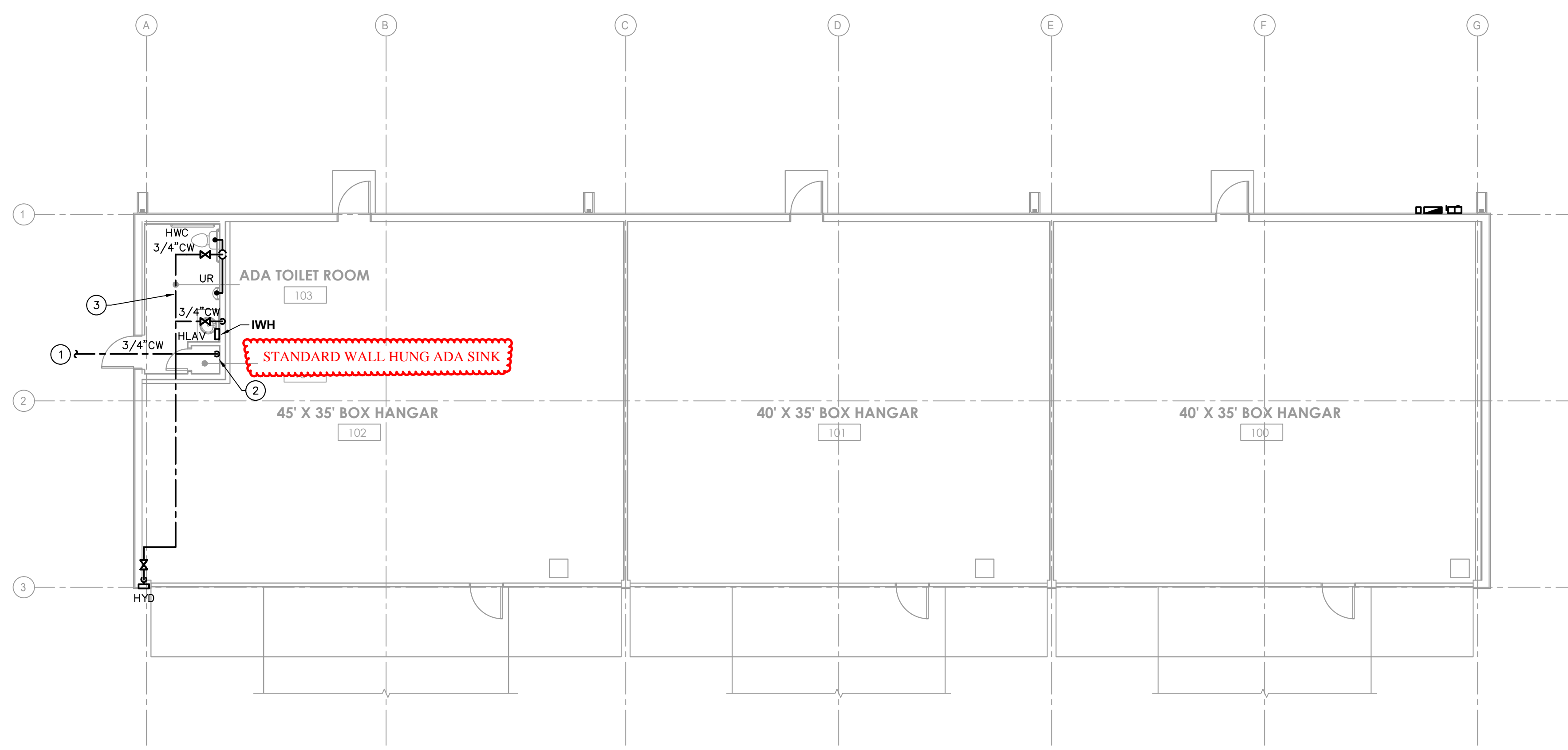
Project No.: **20182651.0002**

Drawing No.: **P-201**

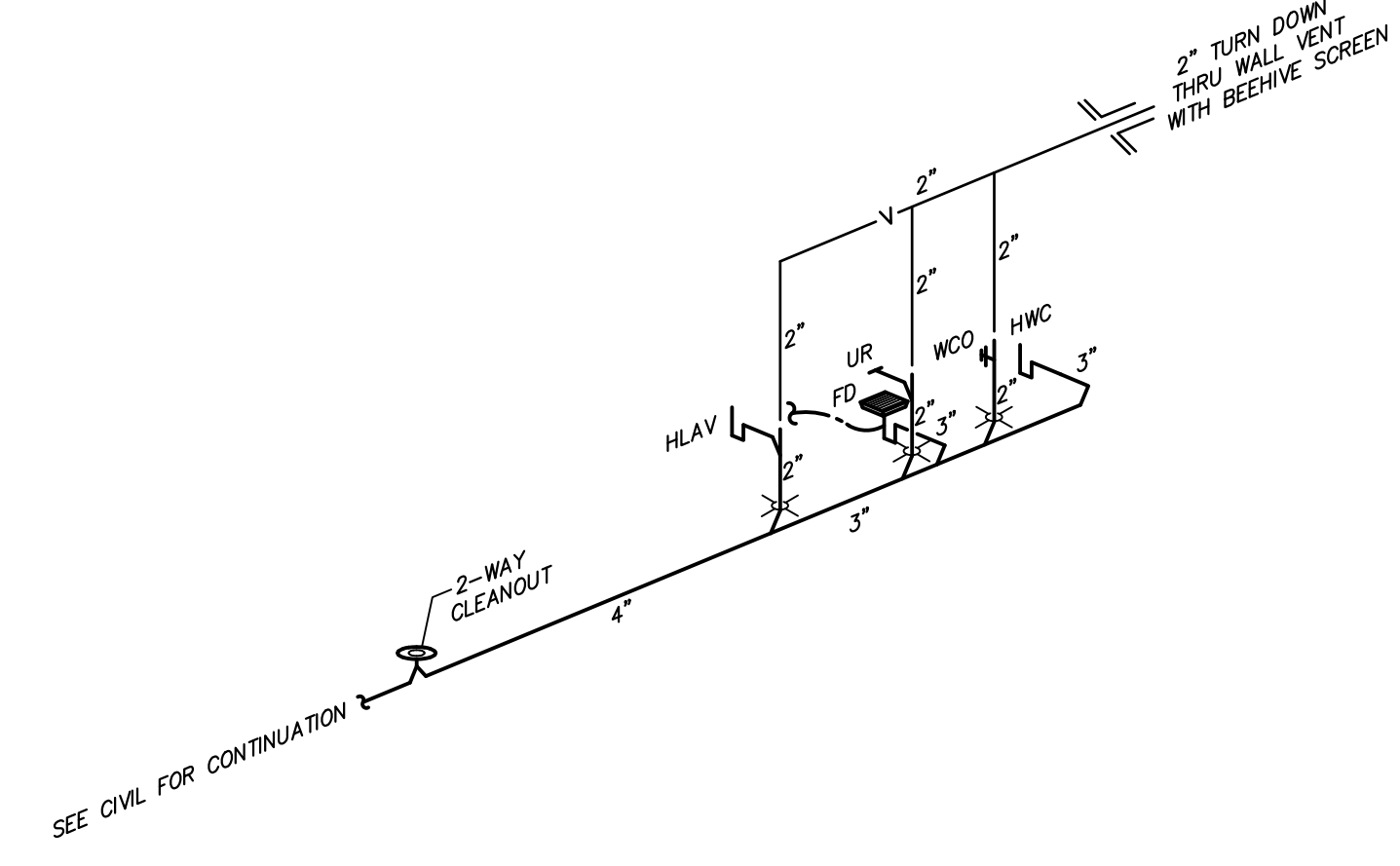
Date: **January 2020**



**1 SANITARY PLAN**  
0' 2' 4' 8' 16'  
1/8" = 1'-0"



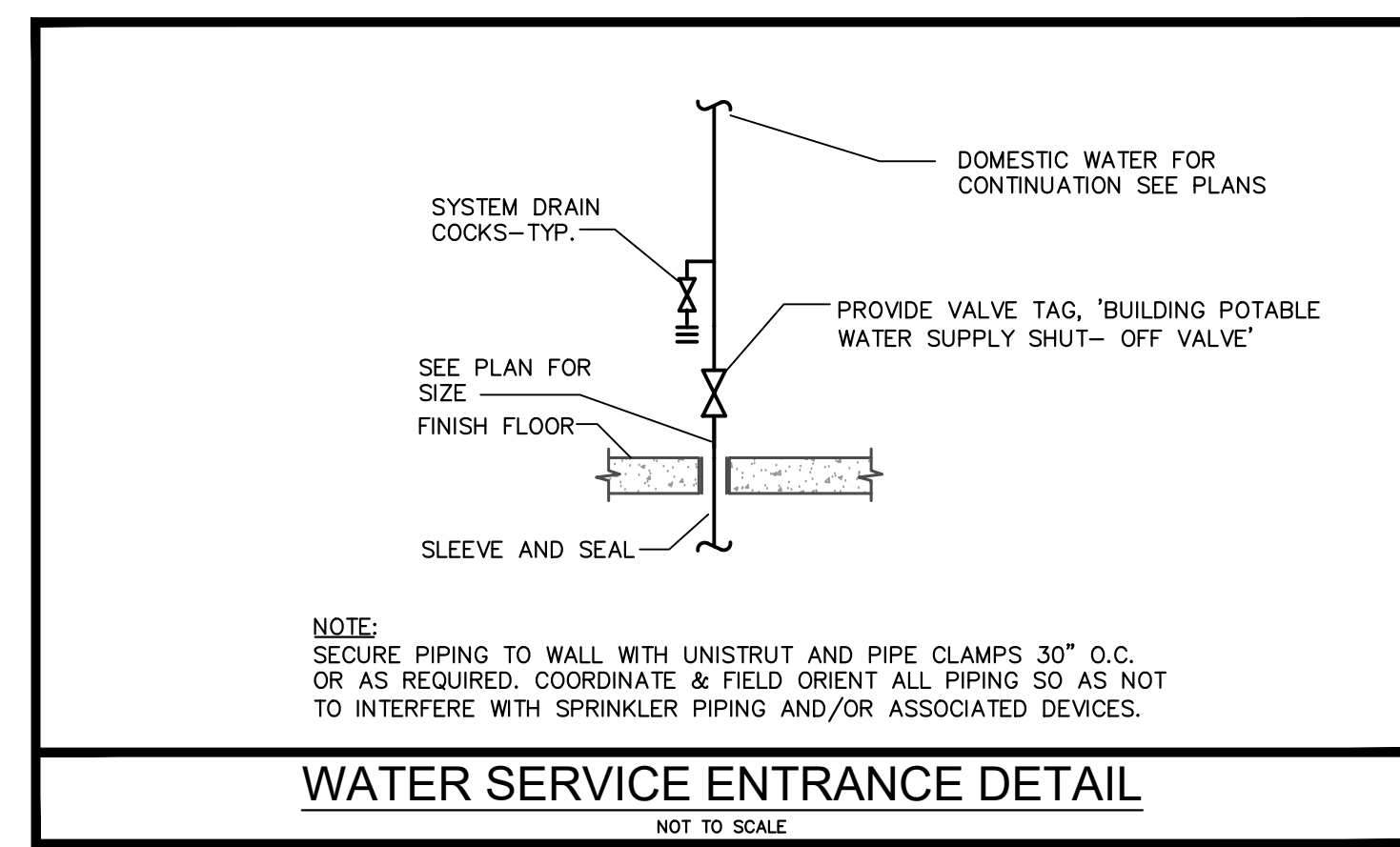
**2 DOMESTIC WATER PLAN**  
0' 2' 4' 8' 16'  
1/8" = 1'-0"



**3 SANITARY ISOMETRIC**  
NOT TO SCALE

- KEY NOTES**
- ① 4" SANITARY LINE BELOW GRADE. SEE CIVIL PLANS FOR CONTINUATION.
  - ② 3/4" COLD WATER RISER. SEE WATER SERVICE ENTRANCE DETAIL THIS SHEET.
  - ③ COLD WATER LINE MOUNTED TIGHT TO STRUCTURE.

**EXPOSED PIPING GENERAL NOTE**  
ALL EXPOSED PIPING IN THIS PROJECT SHALL BE INSULATED WITH 1" ARMAFLEX.



**WATER SERVICE ENTRANCE DETAIL**  
NOT TO SCALE

ROBERT W. BOOTH, P.E.  
FLORIDA LICENSE #81847  
4245 LAND RD  
BALL GROUND, GA 30107  
PROJECT MANAGER: DARIN FRICK  
PHONE 678-246-5162