

Proposed Improvements for

# C1 & C2 Hangars

Abraham Lincoln Capital Airport  
1200 Capital Airport Drive  
Springfield, Illinois 62707

PROJECT TEAM

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ABBREVIATIONS & LEGENDS

ACOUS - ACOUSTIC	DISP - DISPENSER	HTG - HEATING	OP OP HAND - OPPOSITE HAND	STL - STEEL
ACT - ACOUSTIC CEILING TILE	DN - DOWN	ID - INSIDE DIAMETER	O, O2, OX - OXYGEN	STO, STOR - STORAGE
ALUM - ALUMINUM	DWG - DRAWING	IN - INCH	PLAS - LAM, PLAM - PLASTIC	STR, STRUCT - STRUCTURAL
AB - ANCHOR BOLT	EA - EACH	INCL - INCLUDED	LAMINATE	SUSP - SUSPEND OR SUSPENDED
ANCH - ANCHOR	ELEC - ELECTRIC	INFO - INFORMATION	PLAS - PLASTER	STA - STATION
ARCH - ARCHITECTURAL	EWIC - ELECTRIC WATER COOLER	INSUL - INSULATION	PL - PLATE	TB - TACKBOARD
AUTO - AUTOMATIC	EL, ELEV - ELEVATION	INT - INTERIOR	PLYWD - PLYWOOD	TEL - TELEPHONE
AFF - ABOVE FINISH FLOOR	ELEV - ELEVATOR	ISO POLYSTYOCYANURATE	POL - POLISH	TV - TELEVISION
BM - BEAM	EPS- EXPANDED POLYSTYRENE	JC- JANITOR CLOSET	PORT - PORTABLE	TH - THICKNESS
BIT, BUTUM - BITUMINOUS	EQ- EQUAL	JT - JOINT	RAD, R - RADIUS	THK - THICK
BLK - BLOCK	EQUIP - EQUIPMENT	LAT - LAY-IN ACOUSTICAL TILE	REC - RECESS	TOIL - TOILET
BL - BORROWED LIGHT	EX, EXIST, EXIST - EXISTING	LAM - LAMINATED	RECP - RECEPTACLE	T/C - TOP OF CURB
BOT - BOTTOM	EJ - EXPANSION JOINT	LAV - LAVATORY	REF - REFERENCE	TRANS - TRANSFORMER
B.O. - BY - BOTTOM OF	FT - FEET OR FOOT	LK - LOCKER	REFRIG - REFRIGERATOR	TRO - TREATED
BLDG - BUILDING	FIN - FINISH	LP - LOW POINT	REINF - REINFORCE OR REINFORCING	TYP - TYPICAL
CB- CHALKBOARD	FEC - FIRE EXTINGUISHER CABINET	MFR, MANUF - MANUFACTURER	REQD - REQUIRED	UL - UNDERWRITERS LABORATORIES
CC - CUBICLE CURTAIN	FHC - FIRE HOSE CABINET	MAS - MASONRY	RESIL - RESILIENT	UNO - UNLESS OTHERWISE NOTED
CEM - CEMENT/CEMENTITIOUS	FHV - FIRE HOSE VALVE	MO - MASONRY OPENING	REV - REVISION	VAC - VACUUM
CJ - CONTROL JOINT	FLASH - FLASHING	MAT, MATL - MATERIAL	RD - ROOF DRAIN	VERT - VERTICAL
CG - CORNER GUARD	FL, FLR - FLOOR	MAX - MAXIMUM	RM - ROOM	VEST - VESTIBULE
CLR - CLEAR	FD- FLOOR DRAIN	MECH - MECHANICAL	R - RUBBER	VB - VINYL FLOOR BASE
CL - CENTER LINE	FTG - FOOTING	MED - MEDICINE	RT - RUBBER TILE	V - VINYL
CLOS - CLOSET	FDN- FOUNDATION	MET, MTL - METAL	SNK - SNK	VCT - VINYL COMPOSITION TILE
CMU - CONCRETE MASONRY UNIT	FR, FRM - FRAME	ML - METAL LATH	SCH, SCHED - SCHEDULE	VF - VINYL FABRIC
CO - CASSED OPENING/CLEANOUT	FURR - FURRING	MET STUD, MT STUD - METAL STUD	SEC, SECT - SECTION	W - WIDTH
(PLUMBING)	FS - FULL SIZE	MW - MILLWORK	SER - SERVICE	W/ - WITH
COL - COLUMN	F.V. - FIELD VERIFY	MIN - MINIMUM	SHT - SHEET	W/O - WITHOUT
CONC - CONCRETE	GALV - GALVANIZED	MISC - MISCELLANEOUS	SHT MTL, SM - SHEET METAL	WC - WATER CLOSET
CONT - CONTINUOUS	GA - GAUGE	MTD - MOUNTED	SIM - SIMILAR	WD - WOOD
CONTR - CONTRACT OR CONTRACTOR	GL - GLASS	NOM - NOMINAL	S - SLIDE	WP - WATERPROOF OR
CTR - COUNTER	GYP BD, GWB - GYPSUM WALL BOARD	N - NORTH	SL, SLG -SLIDING	WATERPROOFING
CTR FLASH - COUNTER FLASHING	HC- HOLLOW CORE	NIC - NOT IN CONTRACT	SVS - SERVICE SINK	WP - WORKING POINT
CRT - COMPUTER READOUT TERMINAL	HFS - HALF FULL SIZE	NTS - NOT TO SCALE	SC - SOLID CORE	WRB - WATER RESISTANT BARRIER
CSS - CLINICAL SERVICE SINK	HM - HOLLOW METAL	NO, # - NUMBER	SPEC - SPECIFICATIONS	WWR - WELDED WIRE REINFORCEMENT
DET, DTL - DETAIL	HORIZ - HORIZONTAL	OC, O/C - ON CENTER	SD - SQUARE	WT - WEIGHT
DIA - DIAMETER	HP - HIGH POINT	OPNG - OPENING	SS, S.STL - STAINLESS STEEL	XPS - EXTRUDED POLYSTYRENE
DIM - DIMENSION	HT - HEIGHT	OD - OUTSIDE DIAMETER	STD - STANDARD	

	STEEL		RIGID INSULATION
	CONCRETE		BATT INSULATION
	EARTH		WOOD BLOCKING
	GYPSUM BOARD		FINISHED WOOD
	CONCRETE MASONRY UNIT		PLYWOOD
	BRICK		

	KEYED NOTE
	PARTITION TYPE
	DOOR/OPENING NUMBER
	INTERIOR ELEVATION TAG
	SECTION TAG
	REVISION TAG
	COLUMN LINE
	STRUCTURAL LINE
	CEILING HEIGHT

BUILDING CODE SUMMARY

GOVERNING CODES

2018	International Building Code (IBC)
2018	International Existing Building Code (IEBC)
2018	International Residential Code (IRC)
2018	International Fire Code (IFC)
2018	International Property Maintenance Code (IPMC)
2018	International Mechanical Code (IMC)
2018	International Fuel Gas Code (IFGC)
2017	National Electrical Code (NEC)
Current	Illinois State Plumbing Code (ISPC)
2018	Illinois Accessibility Code (IAC)
2010	Americans with Disabilities Act (ADA)
2015	NFPA Life Safety Code 101
2015	NFPA 72 National Alarm and Signaling Code
2015	International Energy Conservation Code (IECC)
Current	Safety Code for Elevators and Escalators. American Society of Mechanical Engineers (ASME) A17.1

Springfield Building Ordinance, Chapter 170  
Springfield Plumbing Ordinance, Chapter 171  
Springfield Electrical Ordinance, Chapter 172  
Springfield Mechanical Ordinance, Chapter 173  
Springfield Fire Safety Ordinance, Chapter 94  
Springfield Zoning Ordinance, March 2005

LOCATION MAP  
Springfield, Illinois

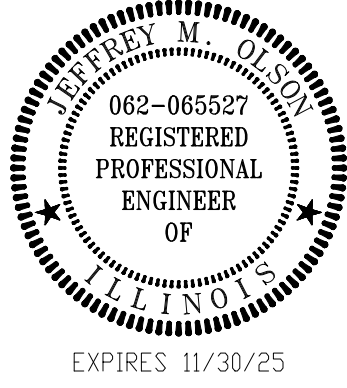
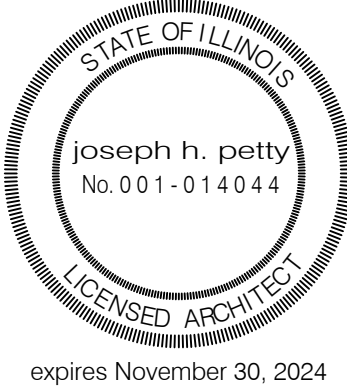
PROJECT LOCATION



general notes
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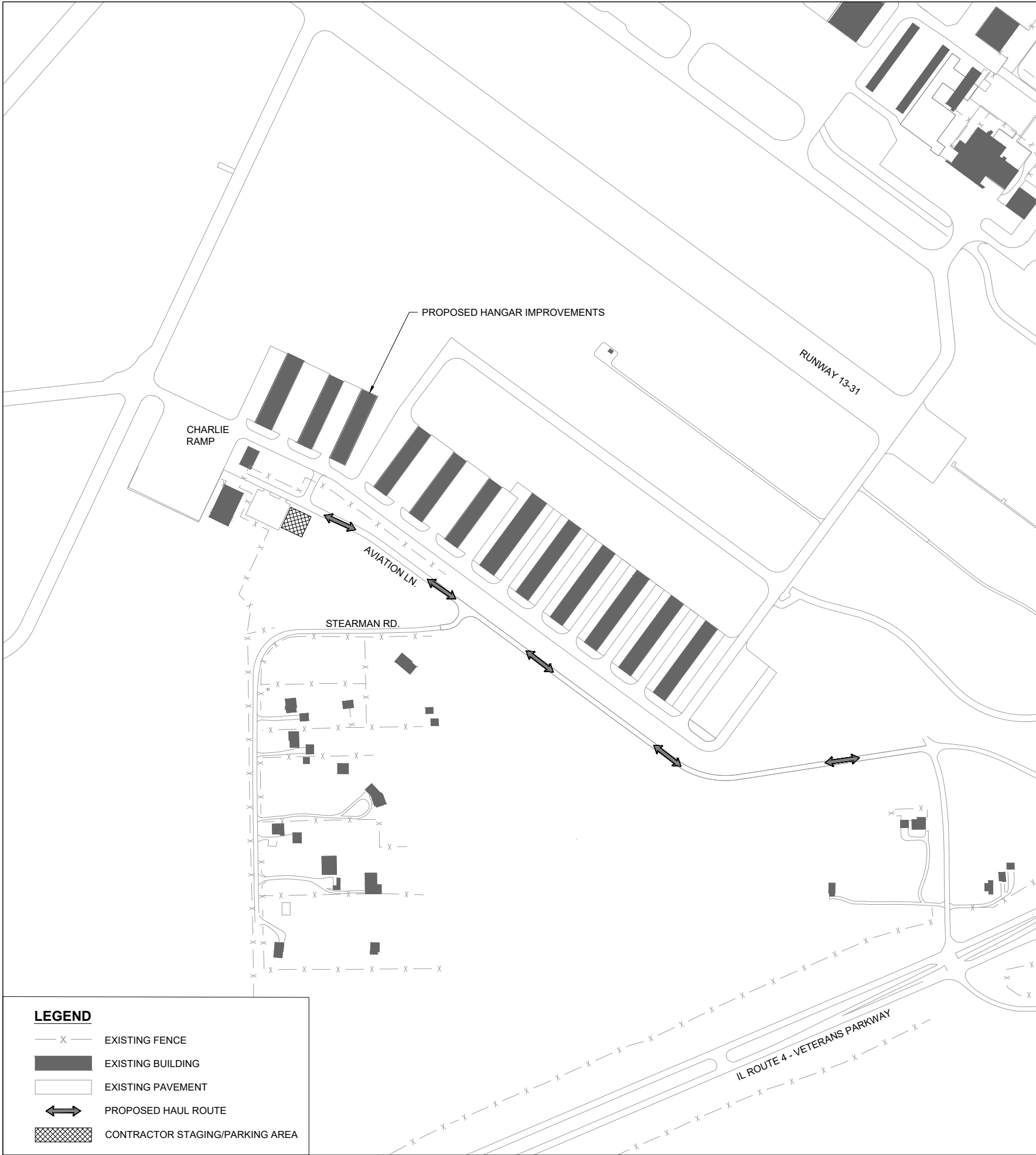


revisions		
no.	date	description
job title		
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1200 Capital Airport Drive Springfield, IL		
sheet title		
COVER PLAN		
sheet number		
G1.0		
project number	2024-077	date 22APR2025



BID SET

APR 30, 2025 3:57 PM CRAFT02387  
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**Airport Badging, Security and Safety**

**E.1 CONTRACTOR'S RESPONSIBILITY FOR AIRFIELD SAFETY DURING CONSTRUCTION**

As a minimum and when applicable, the Contractor shall be responsible for airfield safety during construction as follows:

This project will require a TSA Change of Condition plan to be signed by the contractor's representative. The TSA has up to 30 days to approve the Change of Condition plan. A safety briefing is required by this plan prior to the start of construction and usually takes less than one (1) hour.

- A. Possess a copy of the TSA Change of Condition plan onsite if required.
- B. Comply with the Change of Condition plans associated with the construction project and ensure that construction personnel are familiar with safety procedures and regulations on the Airport.
- C. Provide a point of contact that will coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety and security of the Airport.
- D. Provide a supervisor/flagman trained in airport safety to monitor construction activities and provide radio control, if required.
- E. Restrict movement of construction vehicles to construction areas as appropriate or as shown in plans. Vehicles shall be readably marked with business name and be marked with a 3'x3' checkered flag or beacon while inside the airport perimeter fence.
- F. Ensure that no construction employees, employees of subcontractors or suppliers, or other persons enter any part of the aircraft operations area from the construction site unless authorized.
- G. Comply with the requirements of Federal Aviation Administration Advisory Circular FAA AC 150/5370-2 (latest edition), Operational Safety on Airports During Construction.

**E.2 AIRPORT SECURITY BADGES**

- A. Airport security badges will be required for ~~all employees~~ the project superintendent working on this job and have a non-refundable processing fee of \$50.00 per applicant badge and a \$100 non-refundable fee to replace lost badges.
- B. Badge forms shall be completed prior to that person being issued an identification badge and allowed on the airfield.
- C. A list of personnel authorized to work on the airfield shall be provided to the Public Safety Department by the Contractor.
- D. Lost or stolen badges shall be reported to the Public Safety Department immediately. Badges shall be returned to the Airport once the project is complete or the person is no longer employed by the Contractor.

**E.3 SECURITY DURING CONSTRUCTION**

- A. The Contractor shall be responsible for security during construction as follows:
  - 1. Possess a copy of the Airport's project security plan and or TSA Change of Condition plan.
  - 2. Comply with the Airport's security plan associated with the construction project and ensure that construction personnel are familiar with security procedures and regulations on the Airport.
  - 3. Provide a point of contact that will coordinate an immediate response to correct any construction-related activity that may adversely affect the operational security of the Airport.
  - 4. Restrict movement of construction vehicles to construction areas.
  - 5. Ensure that no construction employees, employees of subcontractors or suppliers, or other persons enter any part of the aircraft operations area from construction site unless authorized.
  - 6. The Airport may require that all Security Guards undergo additional training necessary to meet the Airport's security needs.
  - 7. The Contractor shall be required to maintain security on the Airport as specified or as directed by the Airport.
  - 8. All workers are to remain in their immediate work area(s) at all times.
  - 9. Contractor will provide 24 hours contact phone numbers to the Airport prior to the start of any work.
  - 10. Only those person(s) with the approved security training and badges may have an unescorted physical presence inside the fenced areas and Airport Operations Area (AOA).
  - 11. Any person identified as being on a TSA/FAA security watch list will be immediately reported to the controlling agencies and is prohibited from working on Airport property. Notice will be given to the contractor if such action is necessary.
  - 12. If there are any security fines or penalties imposed upon the Contractor or subcontractors, the contractor is responsible to pay any fines.
  - 13. The Contractor shall be responsible for keeping the access gate closed and locked during work hours. If the Contractor chooses to leave the gate open, then he shall post a competent, properly trained Security Guard to prevent unauthorized entries. The Contractor shall replace any unsatisfactory security guards if so directed by the Airport.
  - 14. ~~The Contractor shall install and maintain a heavy-duty padlock on any manual access gates. He shall provide keys for this padlock to the Public Safety Department. No additional keys are to be distributed unless authorized by the Airport.~~
  - 15. All costs relating to Contractor's access and security shall be the responsibility of the Contractor.

E.4 The Contractor shall comply with all TSA, FAR Part 139 (Airport Certification) and with all rules and regulations of the Airport, including, but not limited to, control and access to the airfield by Contractor's, employees, subcontractors and agents.



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#184-001084

SPRINGFIELD AIRPORT AUTHORITY  
ABRAHAM LINCOLN CAPITAL AIRPORT  
1200 Capital Airport Dr.  
Springfield, IL 62707  
Phone: 217.788.1080

**C1 AND C2 HANGAR IMPROVEMENTS**

IDA No: SPI-XXXX  
SBGP No: N/A

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE:

PROJECT NO: 24A0100.00

CAD FILE: G-004-CSPP.DWG

DESIGN BY: JMO 12/17/2024

DRAWN BY: AJC 12/17/2024

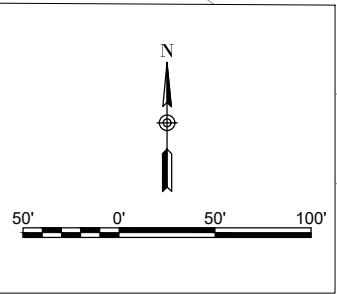
REVIEWED BY:

SHEET TITLE

**ACCESS PLAN**

G-004-CSPP

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SBGP No: N/A

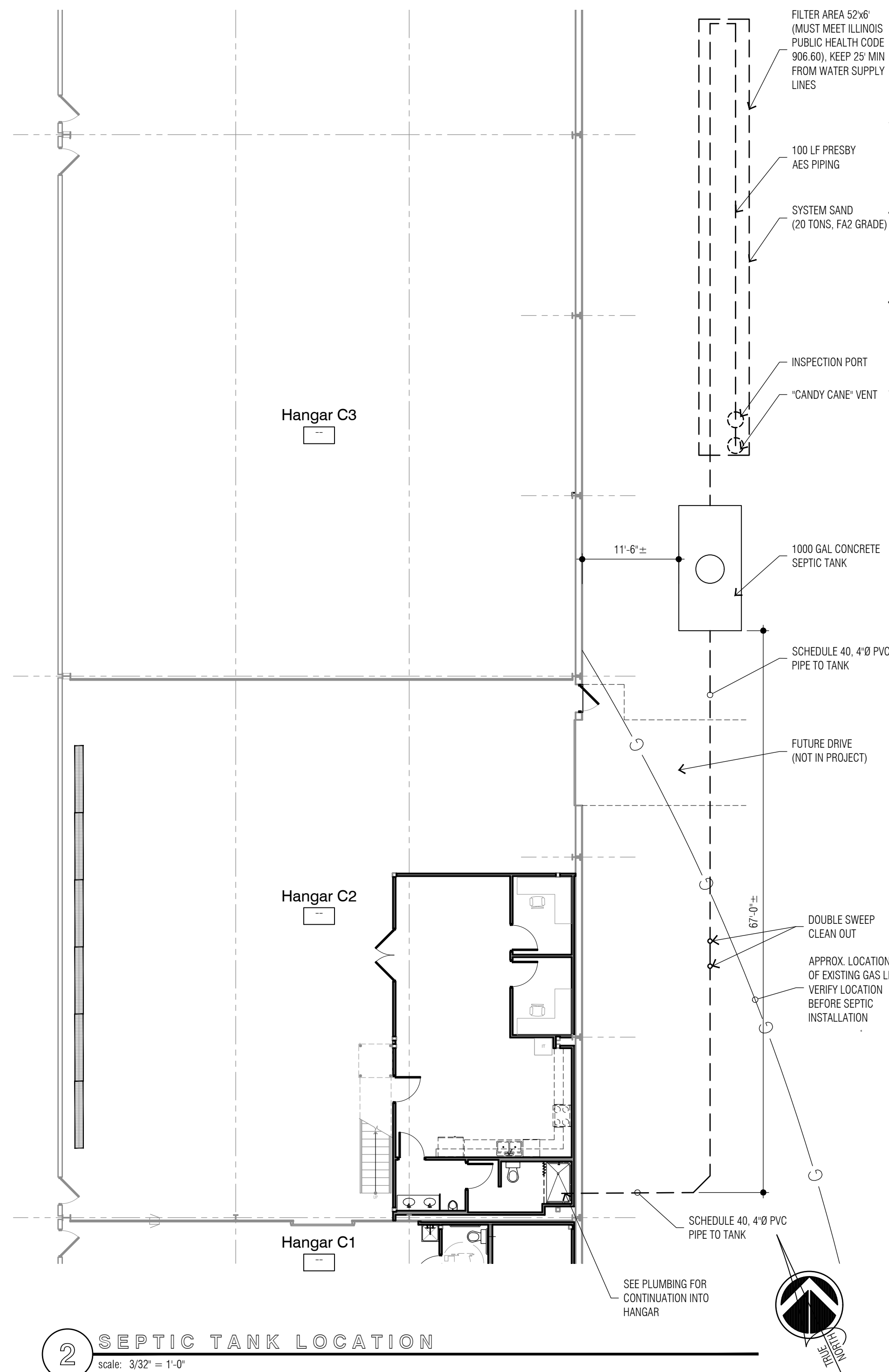
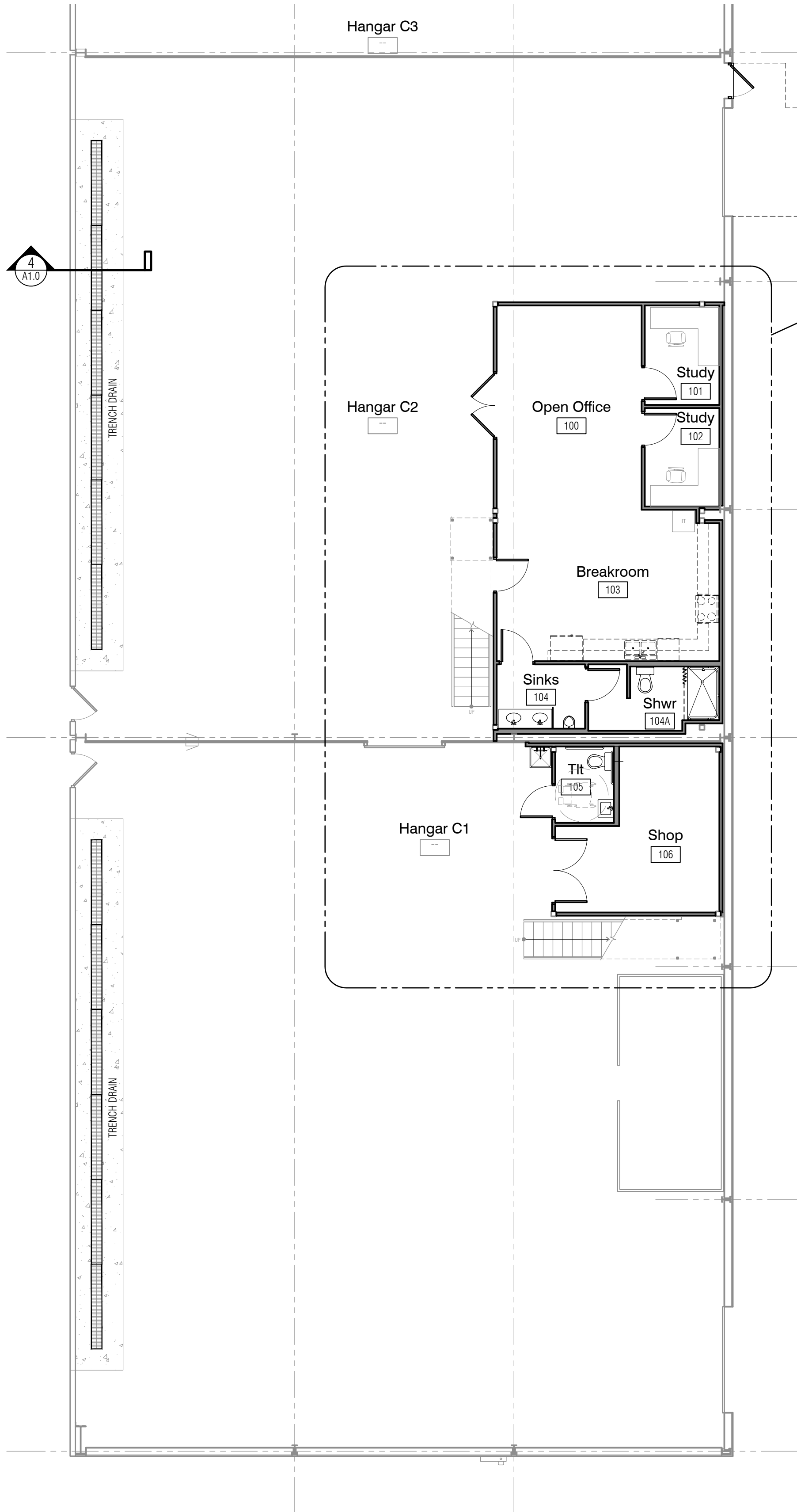
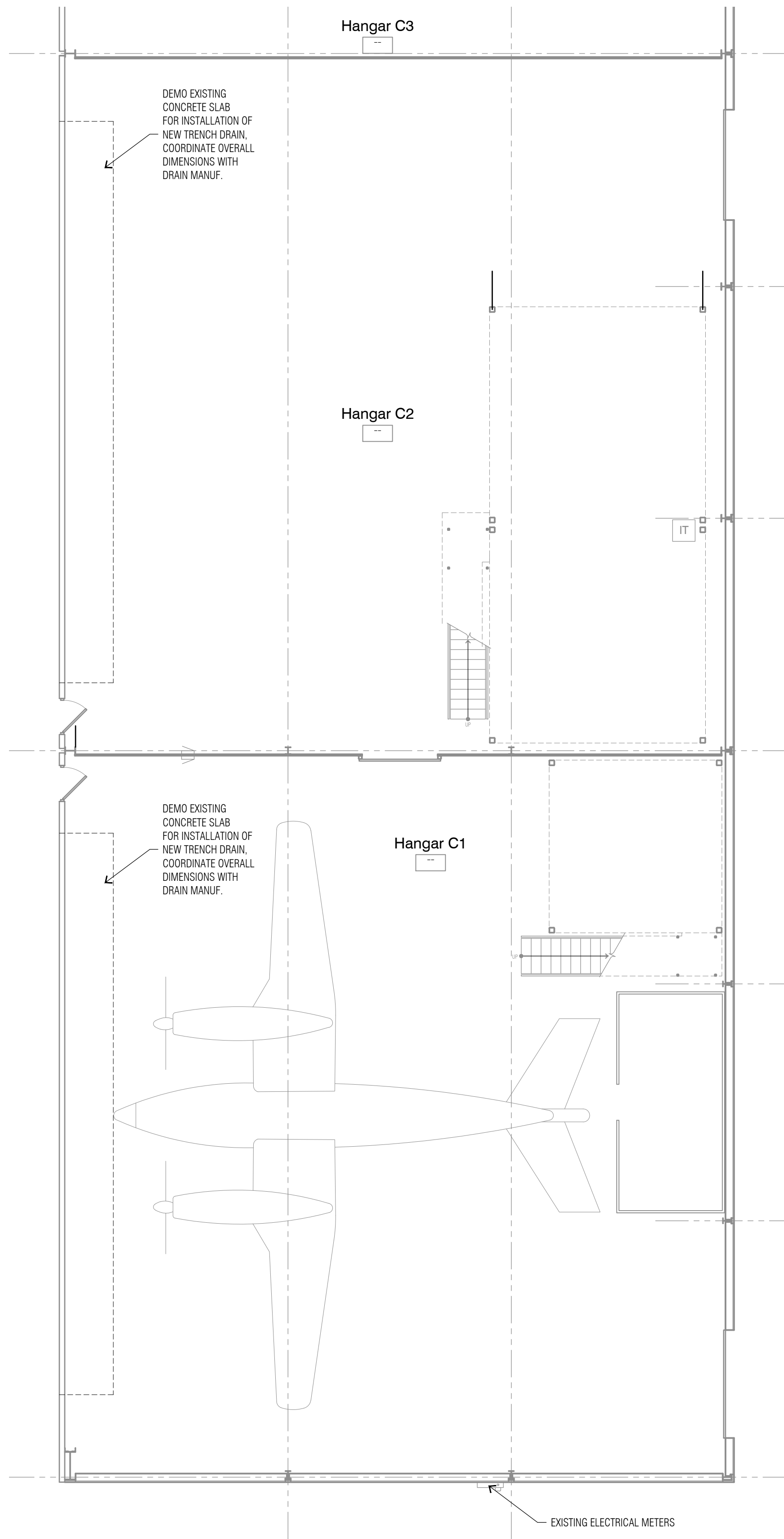
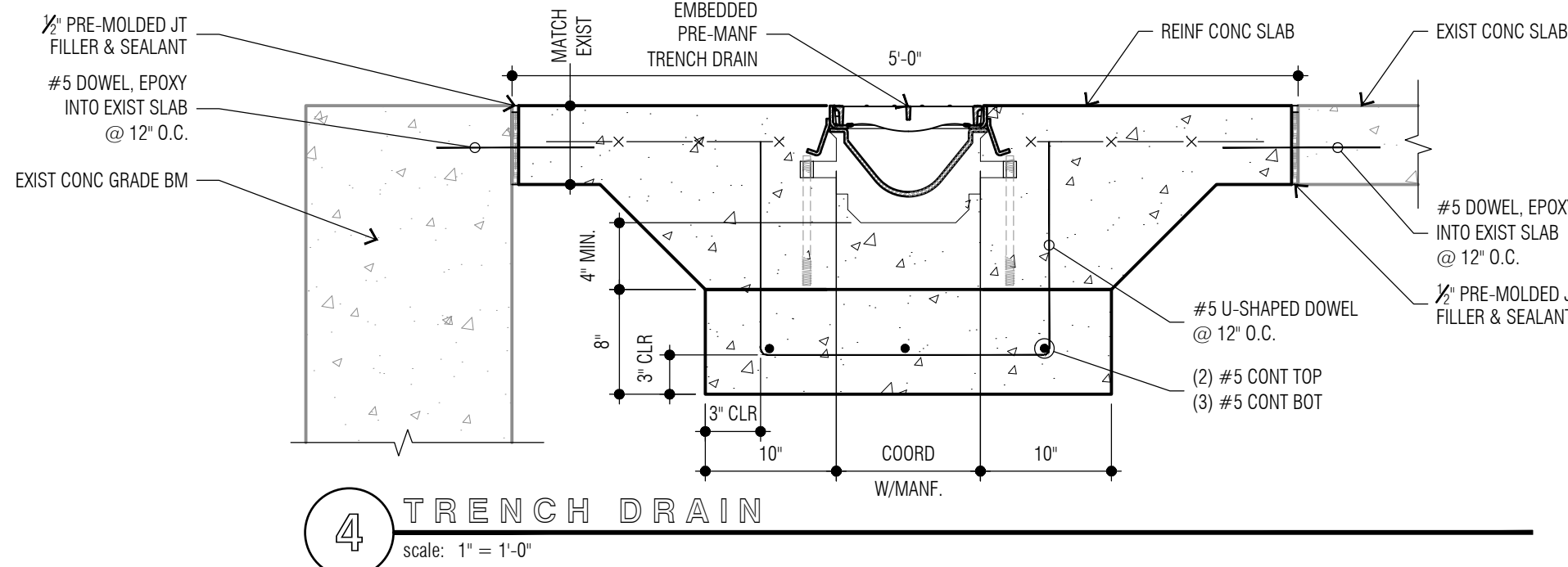
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		DES	DWN	REV

ISSUE:  
PROJECT NO: 24A0100.00  
CAD FILE: C-101-SITE.DWG  
DESIGN BY: JMO 12/17/2024  
DRAWN BY: AJC 12/17/2024  
REVIEWED BY:

SHEET TITLE

EXISTING SITE  
CONDITIONS

C-101-SITE



KEY PLAN  
scale: N.T.S.

general notes

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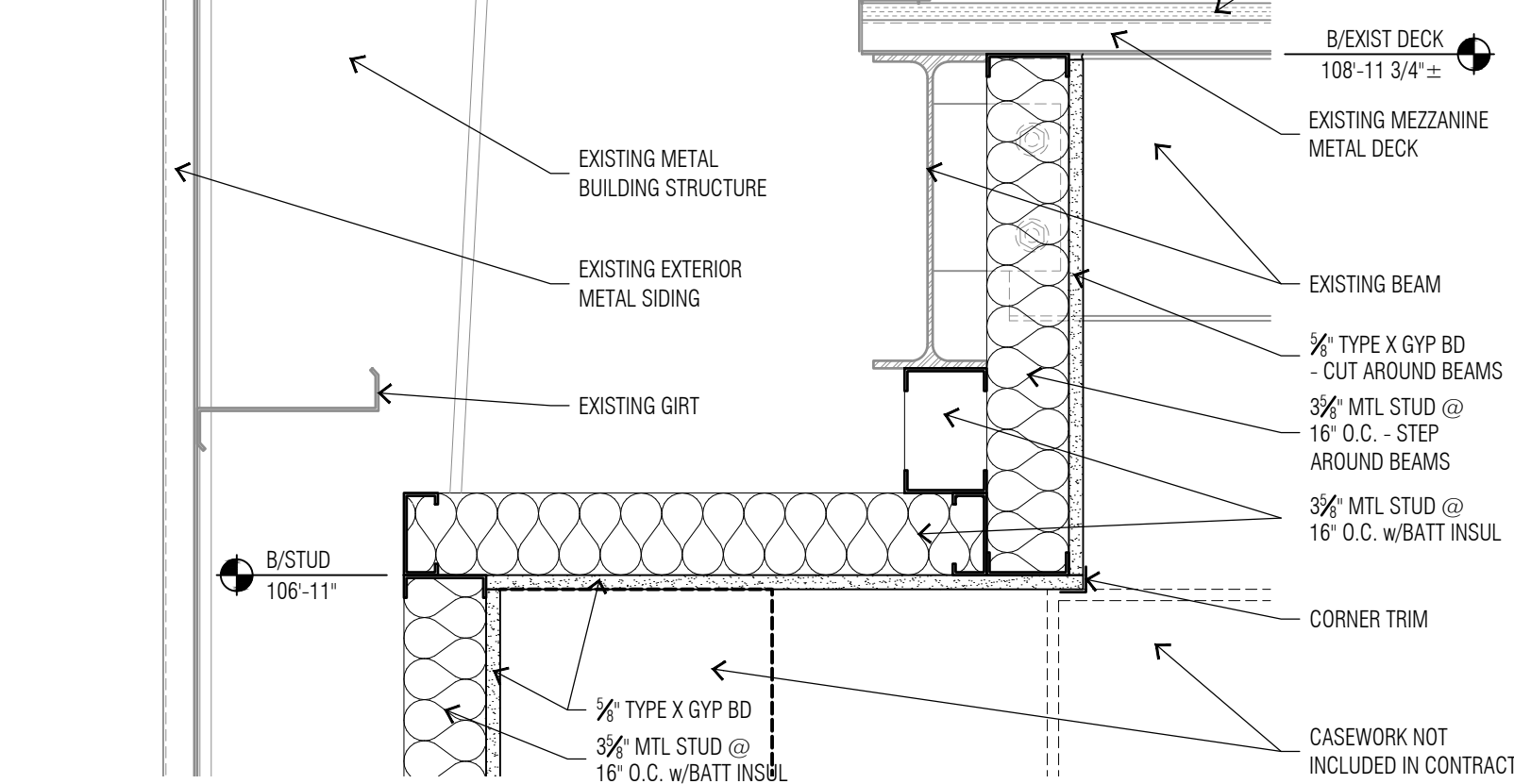
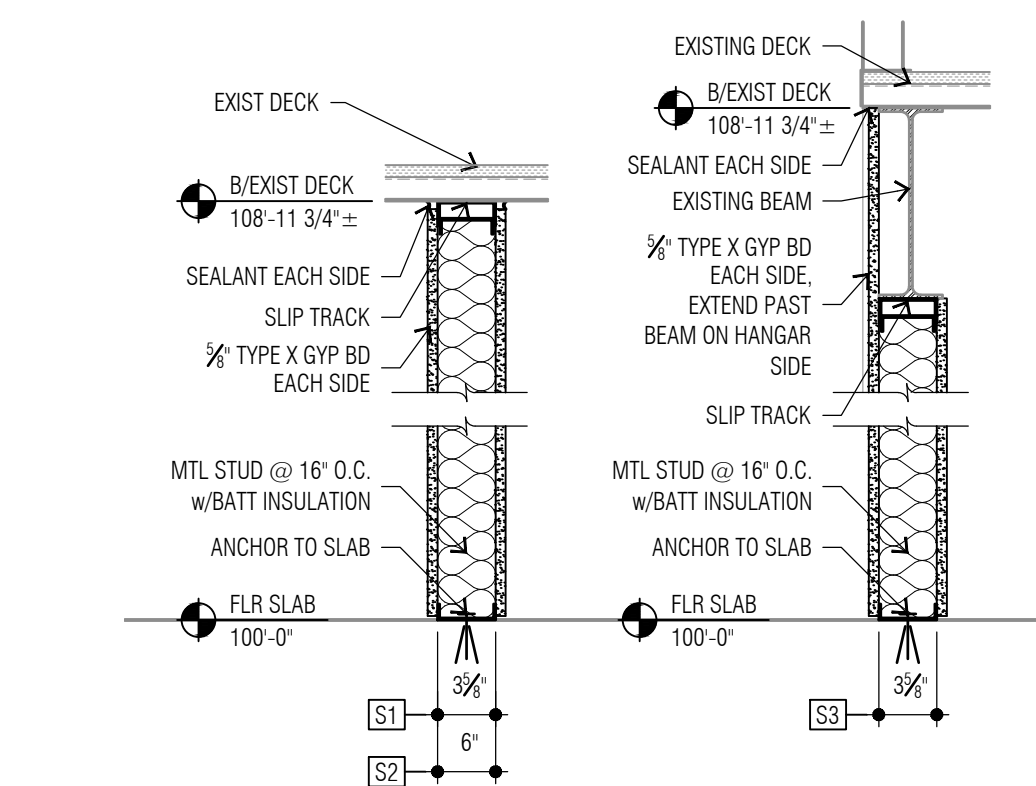
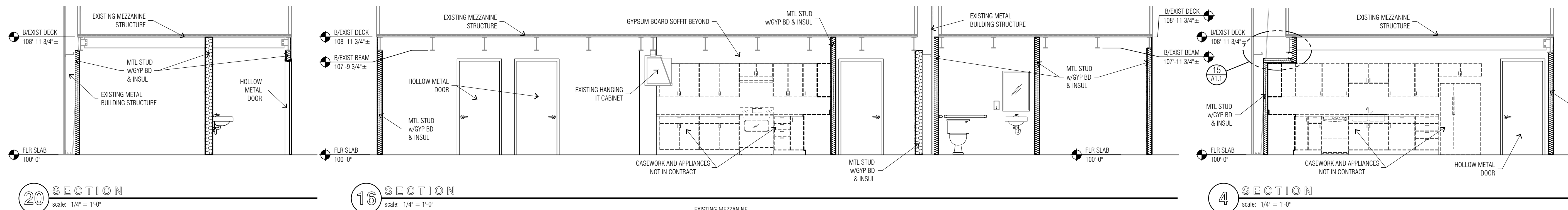
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1200 Capital Airport Drive  
Springfield, IL

sheet title  
OVERALL PLANS  
& KEY SITE PLAN

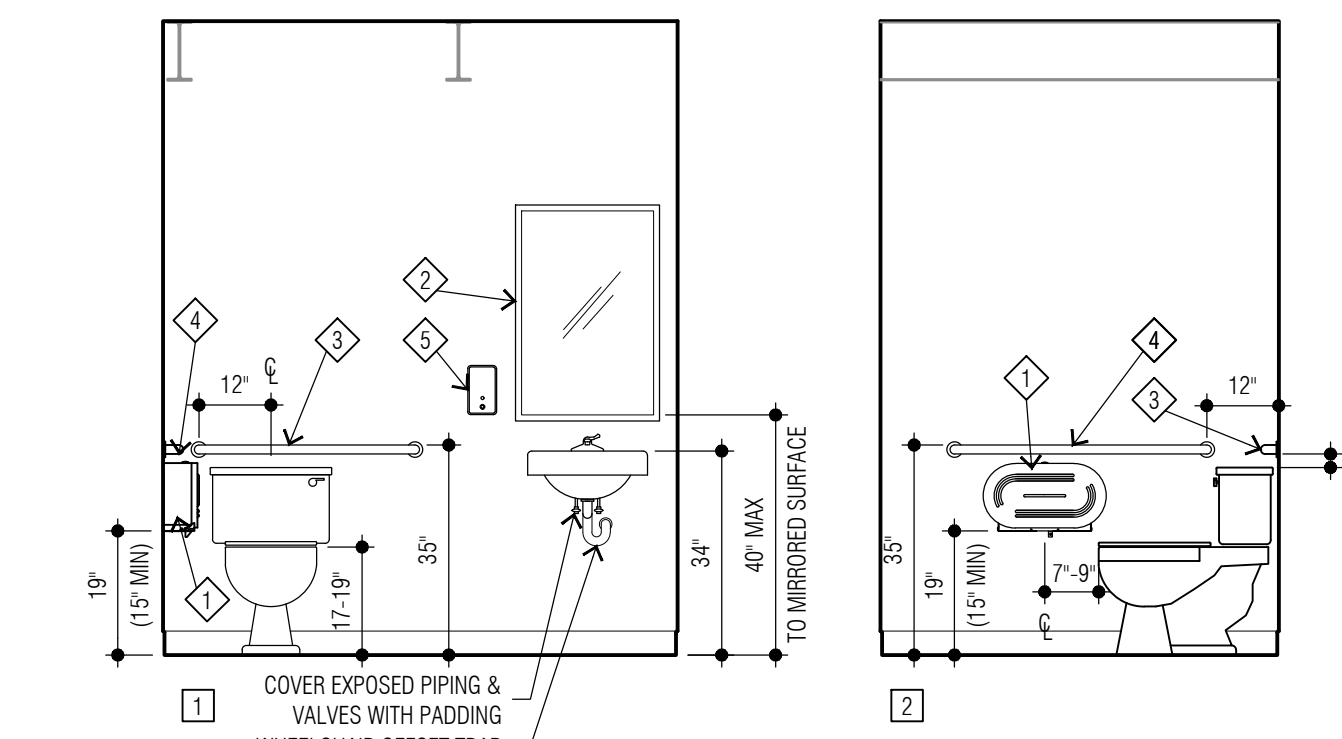
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A1.0

project number 2024-077 date 22APR2025



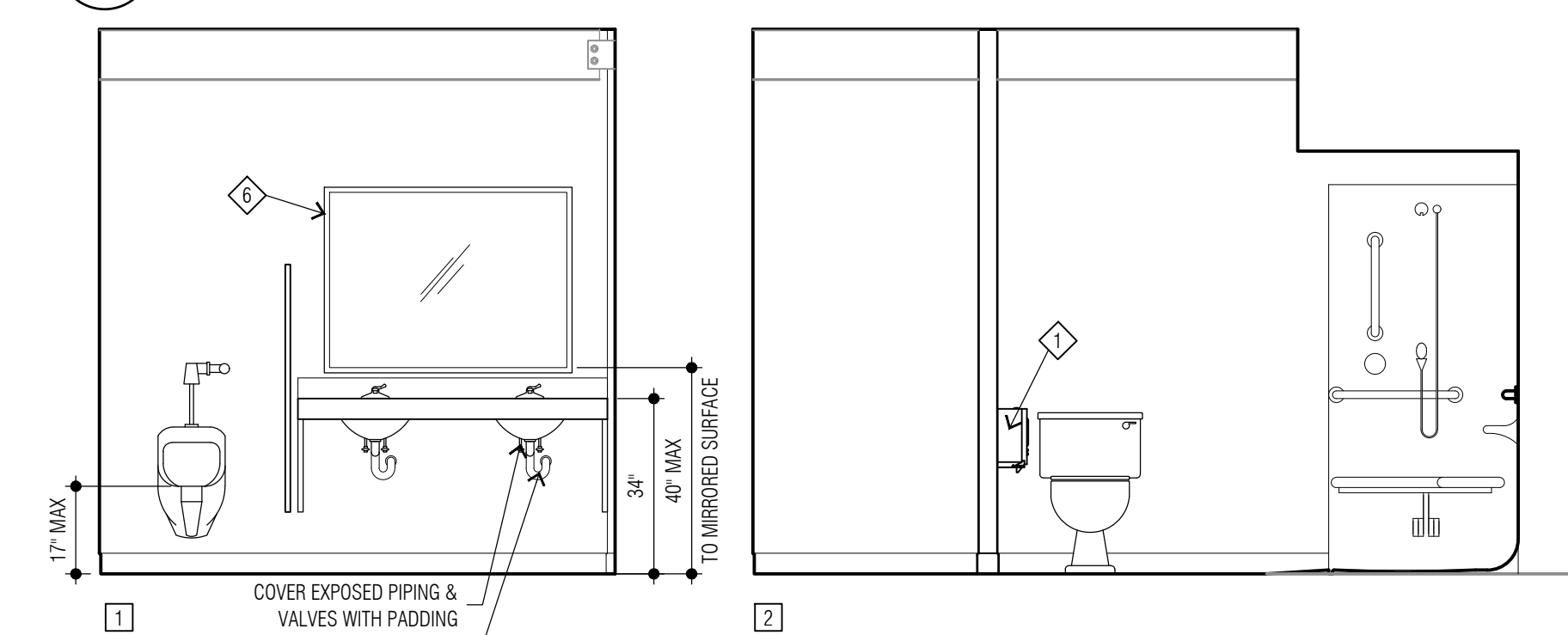
19 PARTITION TYPES  
scale: 1" = 1'-0"

15 SOFFIT DETAIL  
scale: 1" = 1'-0"



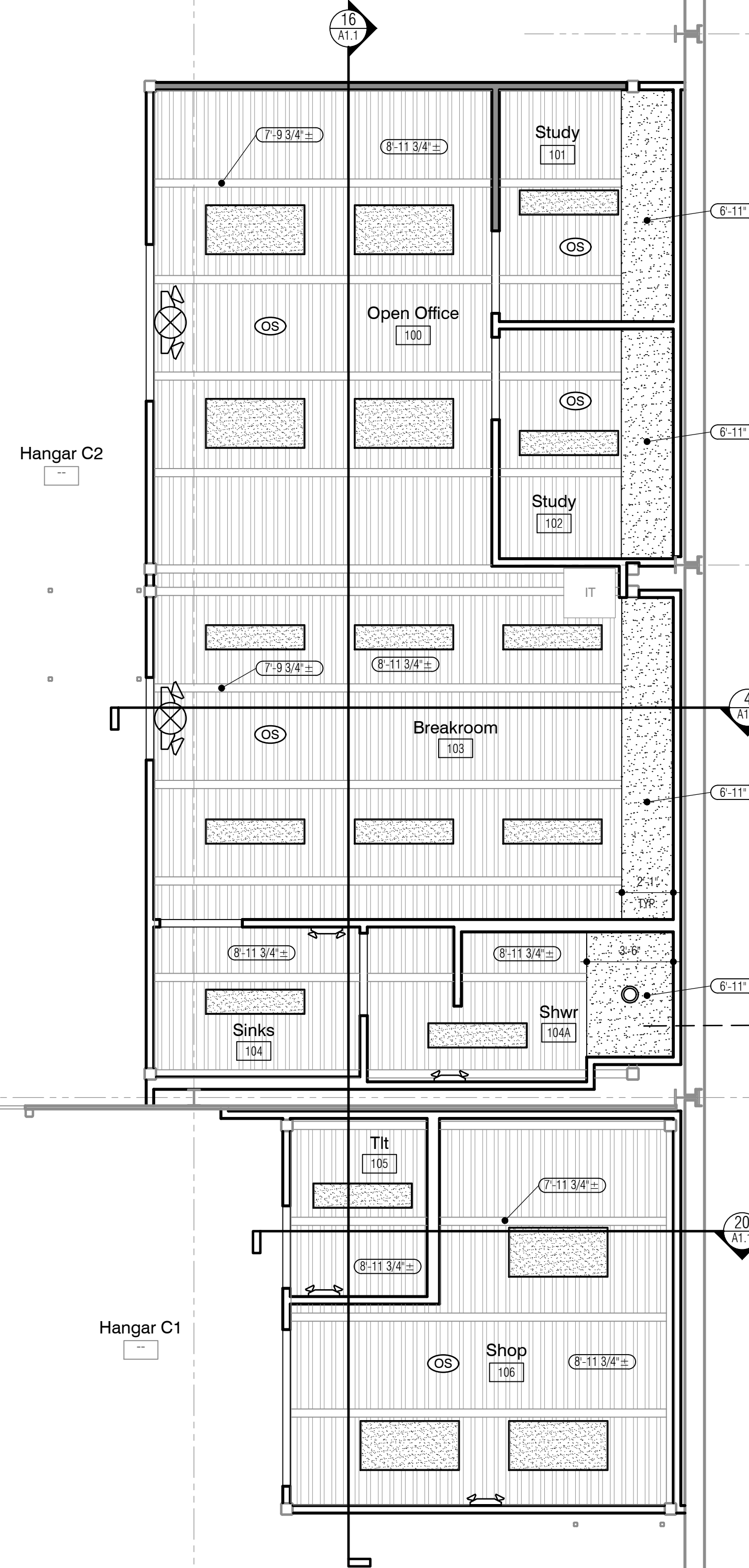
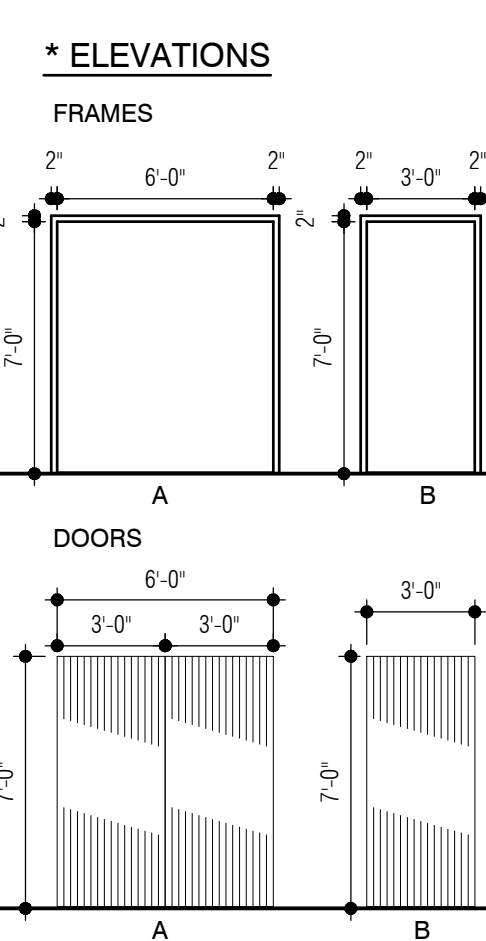
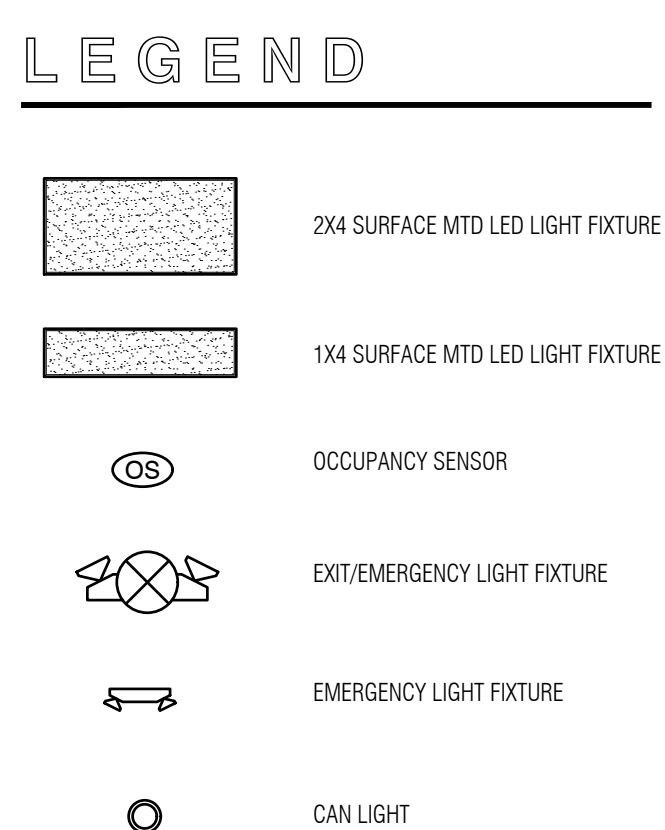
TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MFR	MOD #	REMARKS
1	TOILET PAPER HOLDER	--	--	OWNER PROVIDED, CONTRACTOR INSTALLED
2	24" W x 36" H MIRROR	BRADLEY	780-2436	--
3	36" GRAB BAR- SAFETY GRIP FINISH	BRADLEY	812-2-36	--
4	42" GRAB BAR- SAFETY GRIP FINISH	BRADLEY	812-2-42	--
5	WALL MOUNTED SOAP DISPENSER	--	--	OWNER PROVIDED, CONTRACTOR INSTALLED
6	48" W x 36" H MIRROR	BRADLEY	780-4836	--

18 TOILET 105 ELEVATIONS  
scale: 3/8" = 1'-0"

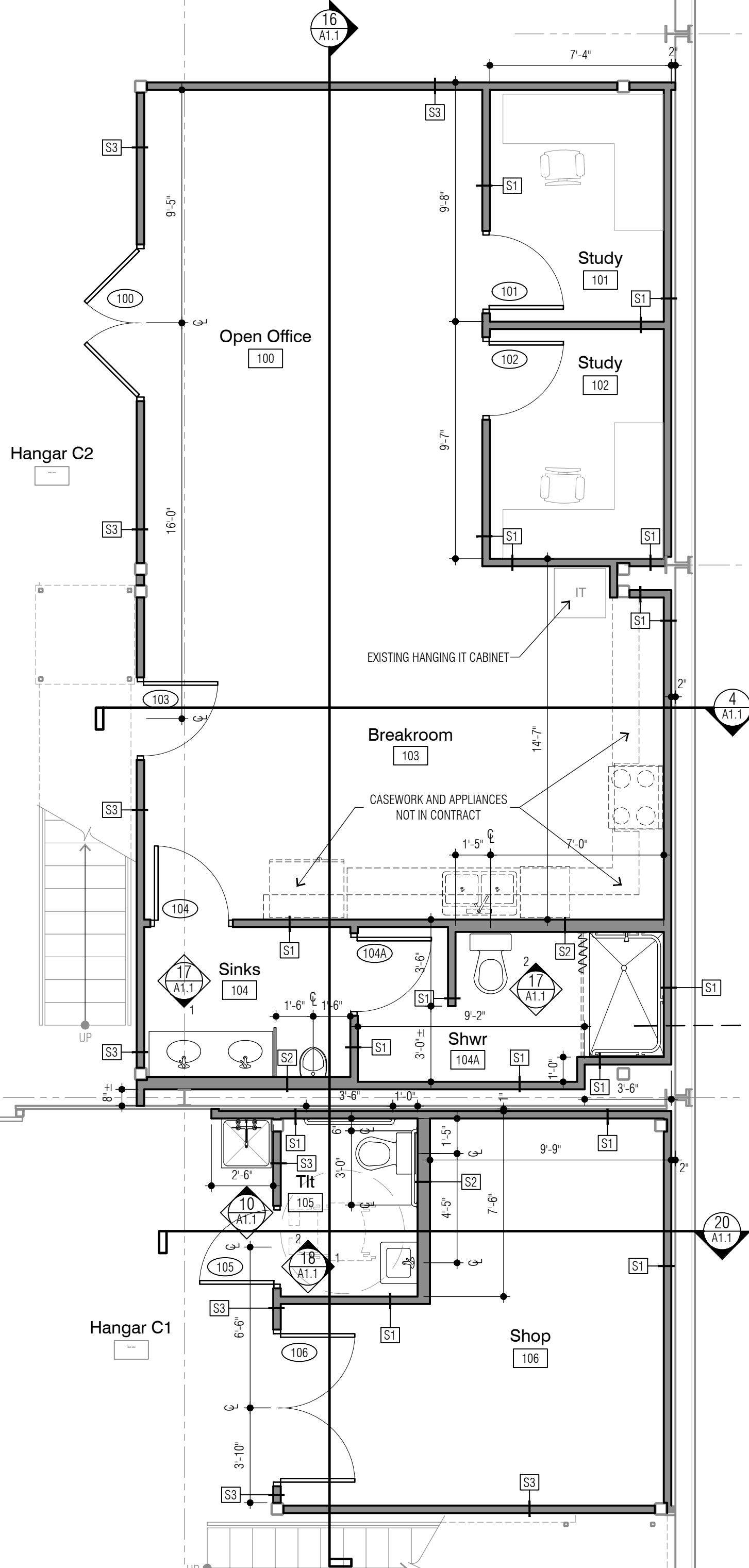


17 SINKS 104 & SHOWER 104A ELEVATIONS  
scale: 1" = 1'-0"

OPENING SCHEDULE											
OPN #	FRAME			DOOR			HARDWARE				
	ELEV*	MAT'L	FIN	ELEV*	MAT'L	FIN	HINGE	LOCK	CLOSER	SEAL	MISC
100	A	HM	PTD	A	HM	PTD	BALL BEARING, STAND DUTY	STOREROOM - ACT LEAF	PUSH SIDE MTD W/STOP - ACT LEAF	SILENCERS	OVERHEAD STOP - INACT LEAF
101	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	OFFICE	PULL SIDE MTD W/STOP	SILENCERS	--
102	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	OFFICE	PULL SIDE MTD W/STOP	SILENCERS	--
103	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	OFFICE	PULL SIDE MTD W/STOP	SILENCERS	--
104	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	PRIVACY	PUSH SIDE MTD	SILENCERS	WALL STOP
104A	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	PRIVACY	PULL SIDE MTD	SILENCERS	WALL STOP
105	B	HM	PTD	B	HM	PTD	BALL BEARING, STAND DUTY	PRIVACY	PULL SIDE MTD W/STOP	SILENCERS	--
106	A	HM	PTD	A	HM	PTD	BALL BEARING, STAND DUTY	STOREROOM - ACT LEAF	PULL SIDE MTD W/STOP - ACT LEAF	SILENCERS	OVERHEAD STOP - INACT LEAF



5 ENLARGED REFLECTED CEILING PLAN  
scale: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN  
scale: 1/4" = 1'-0"

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sheet title  
PROPOSED PLANS,  
SECTIONS, PARTITION  
TYPES, INTERIOR ELEVATIONS &  
OPENING SCHEDULE

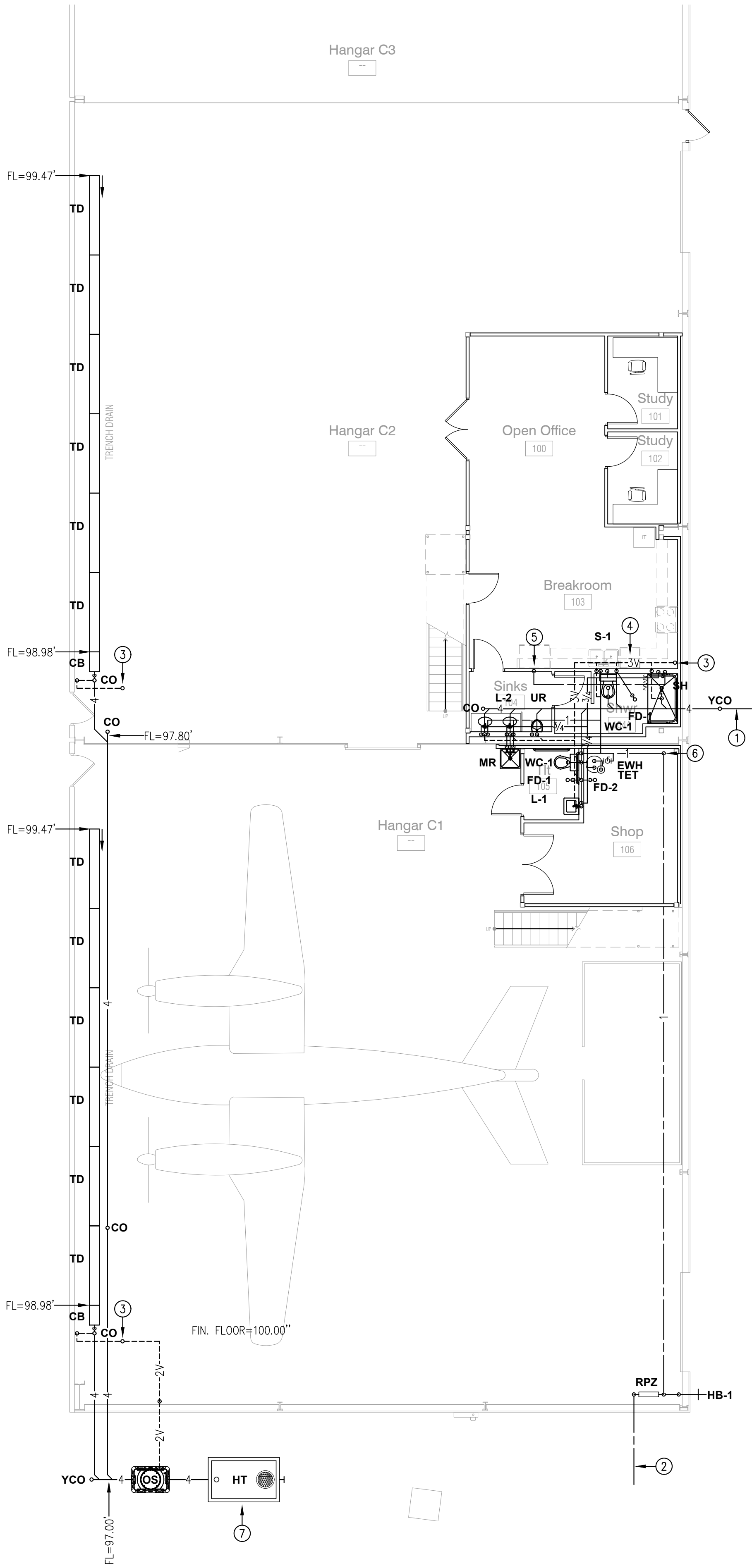
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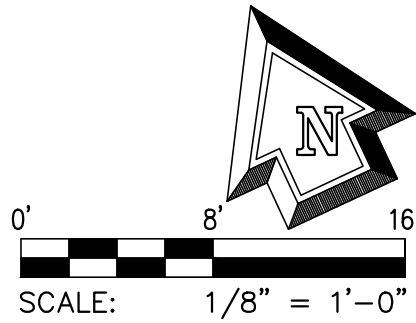
BID SET

- # KEYED NOTES
1. CONNECT TO SEPTIC SYSTEM. SEE SITE PLAN FOR CONTINUATION.
  2. NEW 1-INCH DOMESTIC WATER SERVICE. SEE SITE PLAN FOR CONTINUATION.
  3. 3-INCH VENT THRU ROOF
  4. BRANCH HW FROM SHUT-OFF VALVE IN SINK BASE CABINET TO DISHWASHER. BRANCH DRAIN FROM DISHWASHER TO TAILPIECE OF SINK DRAIN.
  5. 1/2" CW DOWN TO REFRIGERATOR ICE MAKER ROUGH-IN BOX WITH SHUT-OFF VALVE.
  6. 1-INCH CW DOWN TO BELOW MEZZANINE FLOOR.
  7. 1,000 GALLON HOLDING TANK. COORDINATE FINAL LOCATION WITH EXISTING SITE UTILITIES.



PLUMBING PLAN

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

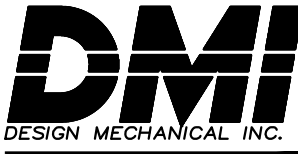


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revisions

no.	date	description

job title

Proposed Improvements for  
C1 and C2 Hangars

1200 Capital Airport Drive  
Springfield, IL

sheet title

PLUMBING PLAN

sheet number

P1.1

project number 2024-077 date 22APR2025

PLUMBING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MFR	MODEL	COMMENTS	BRANCH PIPE SIZE			
					CW	HW	W	V
*WC-1	FLOOR MOUNTED VITREOUS CHINA, ELONGATED BOWL, CLOSE-COUPLED TANK, COMFORT HT., CLASS FIVE, 1.28 GPF	KOHLER	K-3658		1/2"		3"	2"
	SEAT - ELONGATED, HEAVY DUTY, SOLID PLASTIC, OPEN FRONT, WITH LIFT-OFF HINGE SYSTEM.	BEMIS	DURAGUARD 2155C					
*UR	WALL HUNG, SIPHON JET FLUSHING ACTION, ELONGATED RIM, VITREOUS CHINA URINAL WITH 3/4" TOP SPUD	KOHLER	K-5016-ETSS				2"	2"
	FLUSH VALVE - 1.0 GPF BATTERY POWERED SENSOR WITH LONG LIFE (10 YR) BATTERIES	ZURN	Z1R-6203-WS1-LL		3/4"			
	CARRIER WITH FLUSH VALVE SUPPORT AND LOWER BEARING PLATE	ZURN	Z1222 -					
*L-1	WALL HUNG, 21"W X 18" LAVATORY, VITREOUS CHINA WITH FAUCET HOLES ON 4" CENTERS, WHITE	KOHLER	K-2005-4				2"	1-1/2"
	DRAIN OPEN GRID STRAINER, 1-1/4" TAILPIECE, OFFSET TRAP	-	-					
	FAUCET CENTERSET BATHROOM SINK FAUCET FOR 4" CENTERS 1.2 GPM, QUARTER-TURN WASHERLESS CERAMIC DISC VALVES BRASS BODY, POLISHED CHROME FINISH, LEVER HANDLES. POINT-OF-USE THERMOSTATIC MIXING VALVE	KOHLER CHICAGO	K-10270-4CP 131-FMAB		1/2"	1/2"		
	CARRIER: CONCEALED ARM	ZURN	Z1231					
	UNDERSINK PROTECTIVE PIPE COVER	TRUEBRO	LAV GUARD					
*L-2	SOLID SURFACE COUNTERTOP WITH INTEGRAL BOWL(S) SEE ARCHITECTURAL PLANS	-	-				2"	1-1/2"
	DRAIN FITTING CAST BRASS CP OPEN GRID STRAINER, 17 GA 1-1/4" CP BRASS TAILPIECE, 17 GA 1-1/4" CP BRASS P-TRAP	DEARBORN	760-1					
	FAUCET CENTERSET BATHROOM SINK FAUCET FOR 4" CENTERS 1.2 GPM, QUARTER-TURN WASHERLESS CERAMIC DISC VALVES BRASS BODY, POLISHED CHROME FINISH, LEVER HANDLES. POINT-OF-USE THERMOSTATIC MIXING VALVE	KOHLER CHICAGO	K-10270-4CP 131-FMAB		1/2"	1/2"		
S-1	DOUBLE BOWL DROP-IN SINK WITH TWO 13"x16x8d" BOWLS, 18 GA, 304 SS WITH THREE (3) FAUCET HOLES.	ELKAY	LR3322	GENERAL USE			2"	1-1/2"
	DRAIN FITTING: SS BODY, REMOVABLE BASKET STRAINER P-TRAP: 1-1/2" 17 GA BRASS W/CO	ELKAY DEARBORN	LK99 710-1					
	FAUCET 8" CENTERSET, DECK MOUNTED, 13" GOOSENECK SPOUT, 4" LEVER HANDLES, CERAMIC DISC CARTRIDGE, CHROME, 1.5 GPM THERMOSTATIC MIXING VALVE	ELKAY CHICAGO	LKD232SBH5C 131-FMAB		1/2"	1/2"		
*SH	36"x60" GELCOAT SHOWER MODULE. 1-PIECE SHOWER, REINFORCED FOR CUSTOMIZED PLACEMENT OF OPTIONAL GRAB BARS, SEAT AND SOAP DISH. CENTER DRAIN, TEXTURED BOTTOM PROVIDE WITH RECESSED SOAP DISH, GRAB BARS AND OTHER ACCESSORIES AS SHOWN ON THE ARCH. DRAWINGS.	AKER	OPS-6036G	-				
	SHOWER DRAIN	SIOUX CHIEF	825 SERIES				2"	1-1/2"
	THERMOSTATIC PRESSURE-BALANCING MIXING VALVE WITH SINGLE BLADE LEVER HANDLE. WALL/HAND SHOWER W/60" FLEXIBLE METAL HOSE, VACUUM BREAKER, & 30" SLIDE BAR. ADJ. STOP SCREW TO CONTROL MAX HW TEMP TO VALVE 2.0 GPM FLOW RESTRICTOR. INTEGRAL SERVICE STOPS	SYMMONS	9603-PLR  -2.0 -X	ASSE 1016 COMPLIANT	1/2"	1/2"		
MR	24"x24"x10" HIGH MOP RECEPTOR	MUSTEE	63M				3"	2"
	30" HOSE & BRACKET	MUSTEE	65.700					
	MOP HANGER	MUSTEE	65.600					
	FAUCET 8" CENTERS, LEVER ACTUATED TYPE W/ SEPARATE HOT & COLD WATER CONTROL, NOZZLE W/ VACUUM BREAKER, PAIL HOOK, AND TOP BRACE TO WALL W/ FLANGE	CHICAGO	897-CP		1/2"	1/2"		
	VINYL BUMPER GAURDS WALL GUARD - 20 GA 316 SS SPLASH GAURDS 12" HIGH	MUSTEE MUSTEE	-	ON ALL EXPOSED SIDES ON ADJACENT WALLS				
NOTE: ALL ITEMS DESIGNATED BY (*) SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA)								

PLUMBING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MFR	MODEL	COMMENTS	BRANCH PIPE SIZE			
					CW	HW	W	V
FD-1	FLOOR DRAIN - CAST IRON BODY WITH 5"x5" POLISHED NICKEL BRONZE TOP, NO HUB OUTLET, LIGHT DUTY STRAINER.	ZURN	ZN415-SZ1				2"	2"
FD-2	MEDIUM DUTY FLOOR DRAIN - 9". CAST IRON BODY, POLISHED NICKEL BRONZE TOP, SEDIMENT BUCKET.	ZURN	ZN550-Y				2"	2"
CO-F	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON BODY, POLISHED NICKEL BRONZE TOP, BRONZE PLUG, NO-HUB OUTLET	ZURN	ZN-1400-BP				VARIES	
CO-W	WALL CLEANOUT TEE - CAST IRON BODY, POLISHED SS WALL ACCESS COVER, BRONZE PLUG, NO-HUB OUTLET, VANDAL PROOF SECURED TOP	ZURN	Z-1445-BP-VP				VARIES	
YCO	YARD CLEANOUT - THREADED ADAPTER WITH WATERTIGHT PLUG 12"Ø HEAVY DUTY CLEANOUT HOUSING, CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE AND COVER	NEENAH	R-1976				VARIES	
HB-1	HOSEBIB - EXTERIOR FROSTPROOF, ANTI-SIPHON, AUTOMATIC DRAINING WITH LOOSE KEY	WOODFORD	MODEL 67		1/2"			
TD	12" WIDE PRE-SLOPED DRAIN SYSTEM, HEAVY DUTY STEEL FRAME WITH ANCHOR STUDS, CLASS C DUCTILE IRON SLOTTED GRATE, 96" HDPE CHANNEL SECTIONS. PROVIDE WITH SIDEWALL EXTENSIONS AS REQUIRED PROVIDE WITH BOTTOM DOME STRAINER	ZURN	Z-882-DGC  - -DB				4"	2"
CB	CATCH BASIN 12"x24x24"d 4" OUTLET PIPE WITH CATCH BASIN TRAP AND CLEAN OUT PROVIDE WITH SEDIMENT BUCKET CLASS C DUCTILE IRON SLOTTED GRATE	ZURN	Z-887-12-Y - - -				4"	2"
EWB	ELECTRIC WATER HEATER 50 GAL STORAGE TANK, 2-3KW ELEMENTS, 1-PHASE WIRING, SIMULTANEOUS OPERATION, 25 FLA @ 240V,1Ø MIN. 30 GPH AT 80F TEMP RISE.	A.O. SMITH	DEN-52		3/4"	3/4"		
TET	THERMAL EXPANSION TANK, 2 GAL IN-LINE TYPE	AMTROL	ST-5		3/4"			
OS	OIL SEPARATOR - HDPE CONSTRUCTION WITH GASKET SEAL TRAFFIC RATED COVER, 4" INLET & OUTLET AND BUILT IN FLOW CONTROL FLOW RATE = 75 GPM TOTAL CAPACITY = 110 GAL OIL CAPACITY = 27.5 GAL SOLIDS CAPACITY = 11 GAL PROVIDE RISERS AS REQUIRED TO MATCH FINISHED GRADE	STRIEM	OS-75				6"	2"
HT	CONCRETE HOLDING (SEPTIC) TANK 1,000 GAL CAPACITY 4-INCH INLET, 4-INCH CAPPED OUTLET 1-18" OPENING WITH 18" TRAFFIC RATED COVER/LID PROVIDE RISERS AS REQUIRED TO MATCH FINISHED GRADE	-	-				4"	-
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY WITH AIR GAP ADAPTER FITTING	WILKINS	MODEL 975XL2 -AG		1"			
NOTE: ALL ITEMS DESIGNATED BY (*) SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA)								

0

INCHES

1

2

3

3/4"

INCHES

0

1

2

3

4

general notes

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PLUMBING DETAILS,  
SCHEDULES AND NOTES

sheet number

P3.1

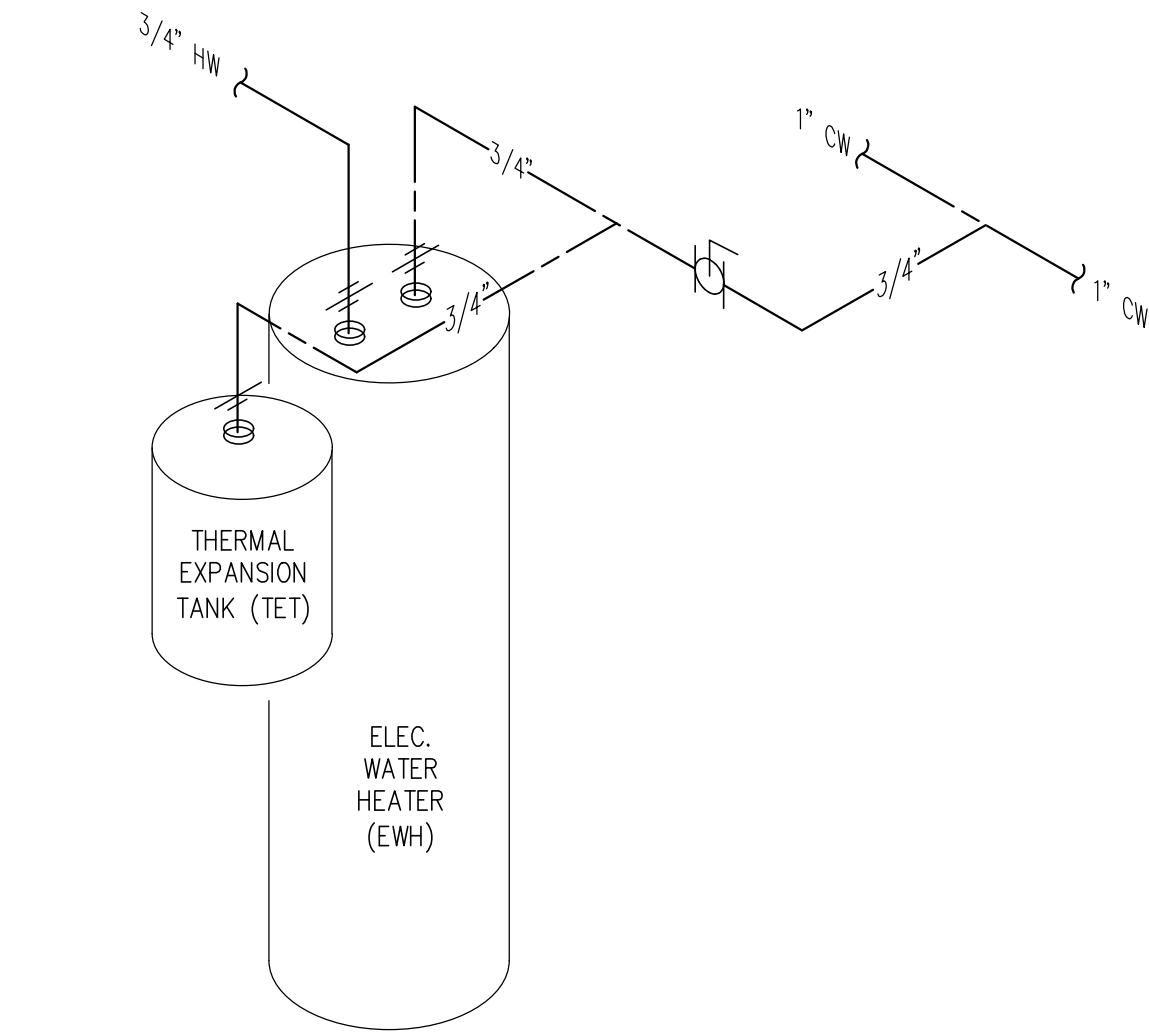
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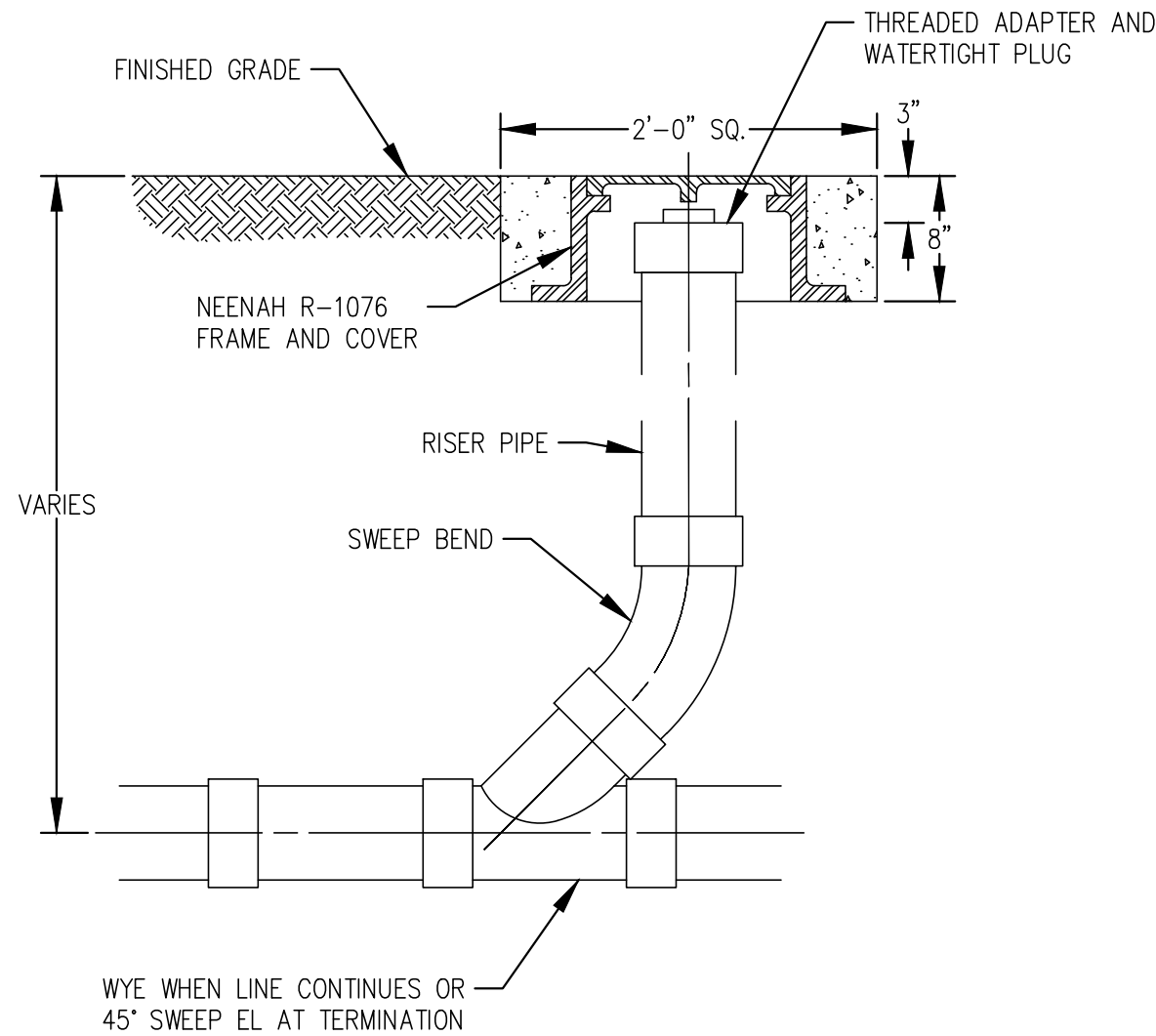
BID SET



NOTE: PIPE PRESSURE/TEMPERATURE RELIEF FROM WATER HEATER TO NEAREST FLOOR RECEPTOR. VENT THRU ROOF USING MANUFACTURER'S CONCENTRIC VENT KIT.

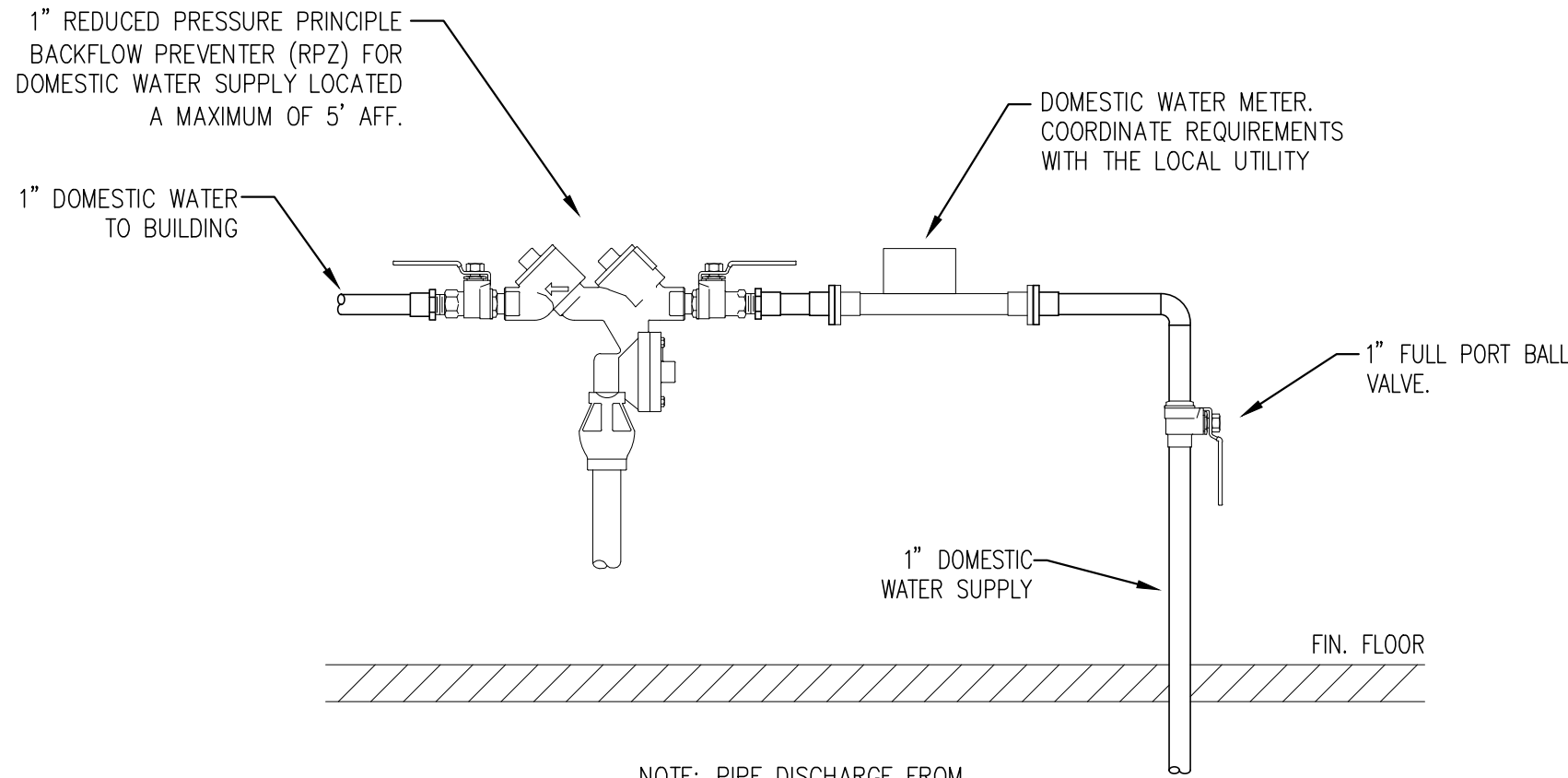
WATER HEATER PIPING SCHEMATIC

SCALE: NOT TO SCALE



EXTERIOR SEWER CLEANOUT (YCO) DETAIL

SCALE: NOT TO SCALE



NOTE: PIPE DISCHARGE FROM RPZ TO OUTSIDE BUILDING.

DOMESTIC WATER SUPPLY DETAIL

SCALE: NOT TO SCALE

## PIPE MATERIAL SCHEDULE

TAG	SYSTEM	OPERATING		SIZE	MATERIAL	MFR. PROCESS	WEIGHT	ASTM	JOINTS	INSULATION
		PRESS. (PSI)	TEMP. (°F)							
CW	DOMESTIC COLD WATER (UNDER GROUND)	60	50	ALL	SOFT COPPER	DRAWN/ANNEALED	TYPE K	B88	NO JOINTS UNDERGROUND	ELASTOMERIC
	DOMESTIC COLD WATER (ABOVE GROUND)			ALL	COPPER	DRAWN	TYPE L	B88	SOLDER OR PRESSFIT	FIBERGLASS WITH ASJ OR ELASTOMERIC
HW	DOMESTIC HOT WATER (UNDER GROUND)	60	140	ALL	SOFT COPPER	DRAWN/ANNEALED	TYPE K	B88	SOLDER	ELASTOMERIC
	DOMESTIC COLD WATER (ABOVE GROUND)			ALL	COPPER	DRAWN	TYPE L	B88	SOLDER OR PRESSFIT	FIBERGLASS WITH ASJ OR ELASTOMERIC
HWR	DOMESTIC HOT WATER RETURN	60	130	ALL	COPPER	DRAWN	TYPE L	B88	SOLDER OR PRESSFIT	FIBERGLASS WITH ASJ OR ELASTOMERIC
SAN	SANITARY WASTE AND VENT	—	—	ALL	PVC, TYPE DWV	SEAMLESS	SCH 40	ASTM D2665/D2949	SOLVENT—WELD	NOT REQUIRED

### NOTES

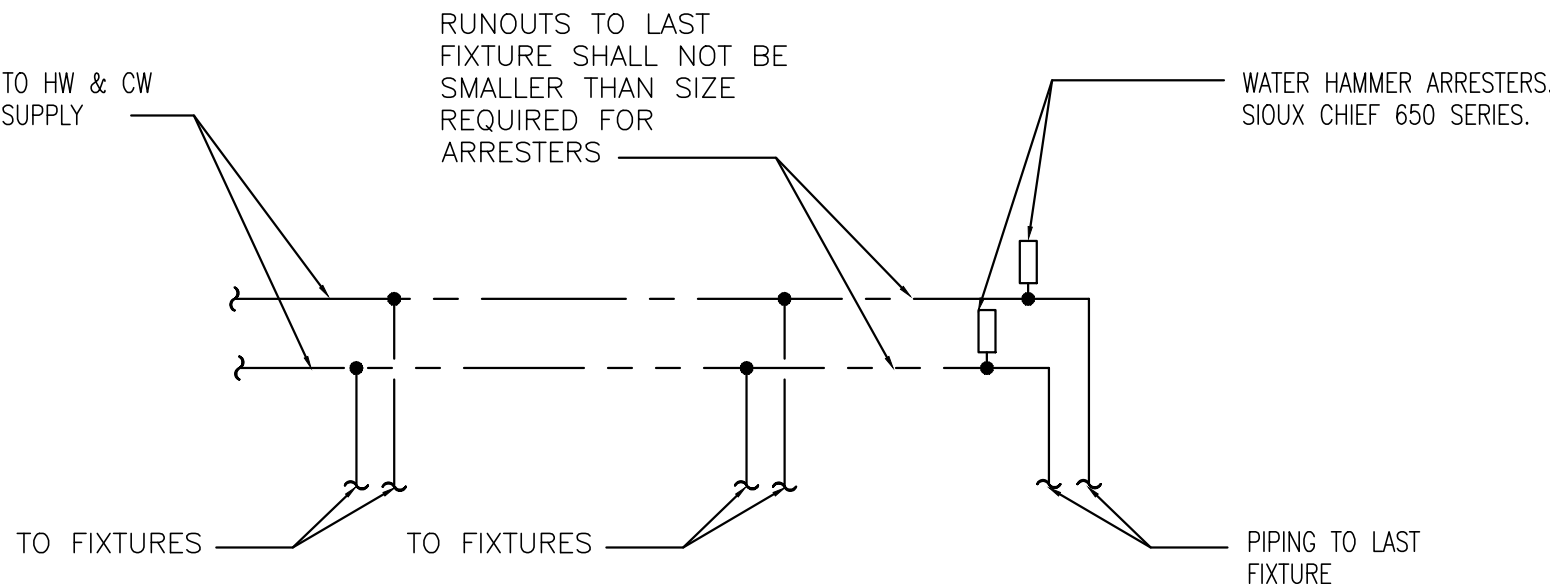
- CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC COUPLINGS.
- PVC PIPE USED IN AN AIR PLENUM SHALL BE WRAPPED WITH INSULATION (3M FIRE BARRIER WRAP 5A+ OR EQUAL) TO MAINTAIN A FLAME SPREAD INDEX LESS THAN 25 AND A SMOKE DEVELOPED INDEX LESS THAN 50.

## PIPE INSULATION SCHEDULE

UNIT	DESCRIPTION	PIPE SIZE	TYPE	THICK.	JACKET
CW	COLD WATER	ALL	FIBERGLASS W/ASJ	1"	—
HW	HOT WATER AT 140 F	1–1/4" & LESS	FIBERGLASS W/ASJ	1"	—
		1–1/2" TO 4"	FIBERGLASS W/ASJ	1.5"	—
HWR	HOT WATER RECIRCULATION AT 130 F	1–1/4" & LESS	FIBERGLASS W/ASJ	1"	—

### NOTES

- FIBERGLASS INSULATION: CONDUCTIVITY SHALL NOT EXCEED 0.27 BTU-INCH/H-FT<sup>2</sup>-F AT 75F.



## WATER HAMMER ARRESTER SIZING CHART

FIXTURE UNIT RATING	CONNECTION TO SUPPLY LINE	SIoux CHIEF 650 SERIES
1–11	1/2"	SIZE A
12–32	3/4"	SIZE B
33–60	1"	SIZE C

WATER HAMMER ARRESTOR SCHEMATIC

SCALE: NOT TO SCALE

## GENERAL PLUMBING NOTES

- All plumbing shall be installed in accordance with the Illinois Plumbing Code, latest edition and all applicable local codes.
- Waste and vent piping shall be SCH 40 PVC (Type DWV) or Cast Iron. No hub cast iron or SCH 40 PVC (Type DWV) covered with fire barrier plenum wrap (3M Fire Barrier Plenum Wrap 5A+ or equal) shall be used in all plenum spaces.
- All water supply piping shall be Type L Copper and insulated with a minimum 1-inch of fiberglass insulation with all service jacket (ASJ) or as otherwise shown or scheduled on the Drawings.
- Maintain access to all clean outs and valves.
- Backfill all excavations to 95% proctor density. Sub-grade where disturbed, shall be replaced with 6-inches of new compacted material.
- Existing utility connections are approximate. Contractor shall verify exact location of all utility connections prior to starting work.
- Extend all plumbing vents thru roof. Plumbing vents shall be located a minimum of 20 ft. from fresh air intakes and rooftop HVAC equipment intakes.
- Water hammer arrestors shall be installed at the ends of long pipe runs, near batteries of fixtures and near fast closing valves. Air chambers shall be at least 12-inches in length and the same size as the fixture supply.
- Provide a separate trap with clean out for each fixture. Fixture traps shall be tubular wall type, minimum 17 gauge with integral clean out plugs, polished chrome plated finish, except where shown or specified otherwise. Size trap to fit fixture tailpiece.
- Provide an accessible loose key or screwdriver stop in all water supplies to all fixtures.
- Provide a chrome plated brass escutcheon plate fastened in place for all wall penetrations for exposed connections to fixtures.
- Fire caulk/stop all penetrations thru fire rated construction.
- Accessible water closets shall be seventeen (17) inches to nineteen (19) inches measured to the top of the toilet seat and sixteen to eighteen (16–18) inches center from the sidewall with the flush handle located on the wide side of the room.
- Lavatories shall not have exposed water or waste pipes or abrasive surfaces but shall be covered with protective guards.
- Lavatory faucets for public use shall be provided with a water-mixing device complying with ASSE 1070 or 1017 adjusted to a maximum setting of one hundred and ten (110) degrees Fahrenheit, at the time of installation.
- All shower and shower-bath combination valves shall comply with ASSE 1016, ASSE 1017 or ASSE 1070 adjusted to a maximum setting of one hundred and fifteen (115) degrees Fahrenheit at the time of installation.
- The drainage and vent system shall be pressure tested with water or air.
- The water supply system shall be pressure tested with water at a pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi. This pressure test shall be held for not less than 15 minutes.
- Any water distribution pipe having been terminated or is an unused segment shall have no "dead ends". No segment of pipe with a developed length of more than two (2) feet shall be permitted.
- All backflow devices shall be tested and approved by a Cross Connection Control Device Inspector (CCCDI) before initial operation.
- The domestic water service shall have an approved reduced pressure backflow preventer (RPZ) installed in-line of equal pipe diameter of the water service and shall be located no more than five (5) feet above the floor.
- Provide drip tee, ball valve, gas filter (if required), pressure regulator (if required) and union at each connection to gas fired equipment.
- All new gas piping shall be tested in accordance with section 406 of the IFGC. The system shall be purged, visually and pressure tested. Soap testing is not acceptable. Mechanical Gauges used to measure test pressures, shall have a range such that the highest end of the scale is not greater than five (5) times the test pressure. The test shall be witnessed and report provided.
- Gas lines run in concealed locations shall be limited to the following fittings: Threaded elbows, Tees, couplings, brazed, welded, and fittings listed to ANSI LC-1/CSA 6.26 or ANSI LC-4.
- Provide protection of all gas piping from physical damage in concealed areas by the use of shielded plates.
- The new potable water system shall be purged of deleterious matter and disinfected prior to use. The method to be followed shall be that prescribed by the local health authority or authority having jurisdiction (AHJ) or, in absence of a prescribed method, the procedure described in either AWWA C651 or AWWA C652.

## PLUMBING LEGEND

----	DOMESTIC COLD WATER (CW)
----	DOMESTIC 115° HOT WATER (HW)
----	DOMESTIC 140° HOT WATER (HW)
----	DOMESTIC HOT WATER RECIRC. (HWR)
----	SEWER OR WASTE (W)
—OW—	OIL WASTE (OW)
—CWV—	COMBINATION WASTE AND VENT (CWV)
— — — — —	VENT LINE (V)
—G—	NATURAL GAS (G)
○ —	RISE
G —	DROP
— — — — —	CAP ON END OF PIPE
—●—	POINT OF CONNECTION
—○ CO	FLOOR CLEAN OUT
—C CO	WALL CLEAN OUT
—(V)—	BALL VALVE
—X—	CHECK VALVE
—P—	MANUAL BALANCING VALVE
● —	FLOOR DRAIN
● —	CIRCULATING PUMP

## OIL SEPARATOR (OS) SIZING

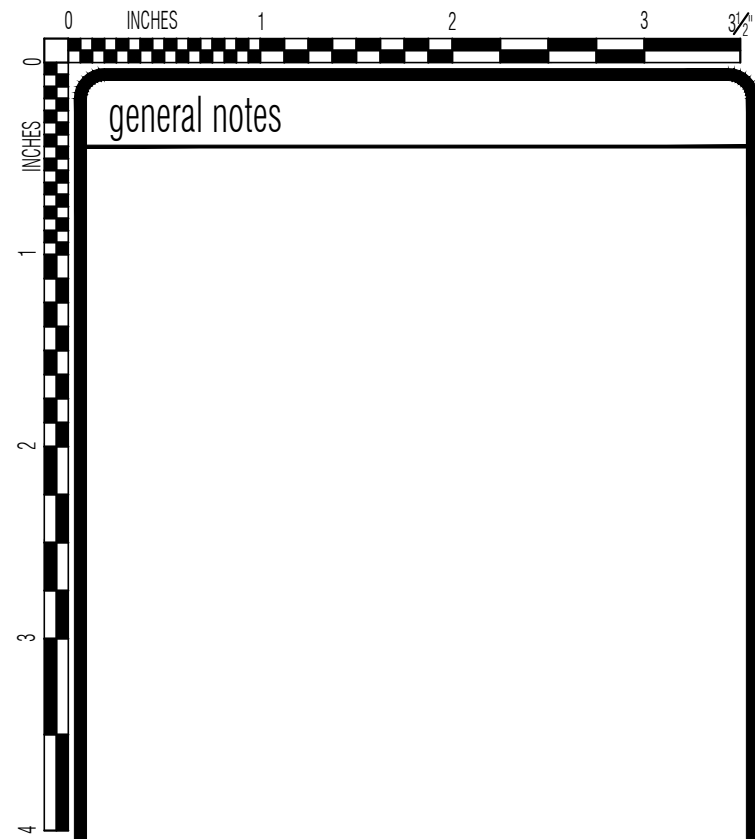
AREA	DRAINED AREA [SQ. FT.]	CAPACITY FIRST 3000 FT <sup>2</sup> [GAL]	ADDITIONAL CAPACITY [GAL]	REQUIRED CAPACITY [GAL]
HANGER C1	3,500			
HANGER C2	3,050			
TOTAL	6,550	45	27	72

- Sized in accordance with the Illinois Plumbing Code 890.520(f)(2): Oil Separators shall have a capacity of not less than 6 cubic feet (45 gal) for the first 3000 square feet of area to be drained plus 1 cubic foot (7.5 gal) for each additional 1000 square feet of area to be drained into the separator.

## DESIGN CRITERIA

LOCATION	DRAINAGE (DFU'S)	CW (WSFU'S)	HW (WSFU'S)	TOTAL (WSFU'S)	GAS (MBH)
HANGER C1 & C2	31	23	9	27	—

COLD WATER DEMAND = 18 GPM  
COLD WATER SERVICE SIZE (TOTAL BLDG.) = 1"ø  
BUILDING SEWER SIZE = 4"ø AT 1/8" PER FT.



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PLUMBING DETAILS,  
SCHEDULES AND NOTES

sheet number

P3.2

project number 2024-077 date 22APR2025

BID SET

HVAC LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER/GRILLE
	RETURN AIR DIFFUSER/GRILLE
	EXHAUST AIR DIFFUSER/GRILLE
	SUPPLY AIR DUCTWORK
	RETURN AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	THERMOSTAT
	VOLUME DAMPER
	CONDENSATE PIPING
	FIRE DAMPER
	EQUIPMENT/DIFFUSER CALLOUT SEE DIFFUSER LEGEND FOR ADDITIONAL INFORMATION.

### HEAT PUMP (HP) SCHEDULE

TAG	GENERAL INFORMATION			PERFORMANCE DATA		ELECTRICAL DATA			
	MODEL NUMBER	NOM CAPACITY [TON]	REFRIGERANT	TOTAL CAP [MBH]	VOLTAGE	PHASE	MCA	MOCP	
HP-1	DAIKIN: RXTQ60TBVJUB	5	R-410A	60.0	208	1	32.8	35	

NOTES: 1. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.

### DUCTLESS SPLIT (DS) SCHEDULE

TAG	GENERAL INFORMATION			PERFORMANCE DATA		ELECTRICAL DATA			
	MODEL NUMBER	SUPPLY AIR [CFM]	WT [LBS]	COOL CAP [MBH]	HEAT CAP [MBH]	VOLTAGE	PHASE	MCA	MOCP
DS-1	DAIKIN: FXZQ09TBVJU	317/282/229	40	8.1	10.6	208	1	0.3	15
DS-2	DAIKIN: FXAQ07PVJU	260/160	30	6.4	5.4	208	1	0.4	15
DS-3	DAIKIN: FXAQ07PVJU	260/160	30	6.4	5.4	208	1	0.4	15
DS-4	DAIKIN: FXAQ07PVJU	260/160	30	6.4	5.4	208	1	0.4	15
DS-5	DAIKIN: FXZQ09TBVJU	317/282/229	40	8.1	10.6	208	1	0.3	15
DS-6	DAIKIN: FXZQ09TBVJU	317/282/229	40	8.1	10.6	208	1	0.3	15
DS-7	DAIKIN: FXAQ07PVJU	260/160	30	6.4	5.4	208	1	0.4	15
DS-8	DAIKIN: FXAQ07PVJU	260/160	30	6.4	5.4	208	1	0.4	15

NOTES: 1. PROVIDE WITH TOGGLE TYPE DISCONNECT SWITCH, IF REQUIRED.

### EXHAUST FAN (EF) SCHEDULE

TAG	GENERAL INFORMATION							ELECTRICAL DATA		
	MODEL NUMBER	FLOW [CFM]	STATIC PRESS. [WG]	FRPM	ROOF OPENING	WEIGHT [LBS]	NOTES:	VOLTAGE	WATTS	HP
EF-1	BROAN: PTE511RK	50	0.25	—	NA	15	1-2	120	55	F
EF-2	BROAN: PTE511RK	80	0.25	—	NA	15	1-2	120	55	F
EF-3	BROAN: PTE511RK	50	0.25	—	NA	15	1-2	120	55	F

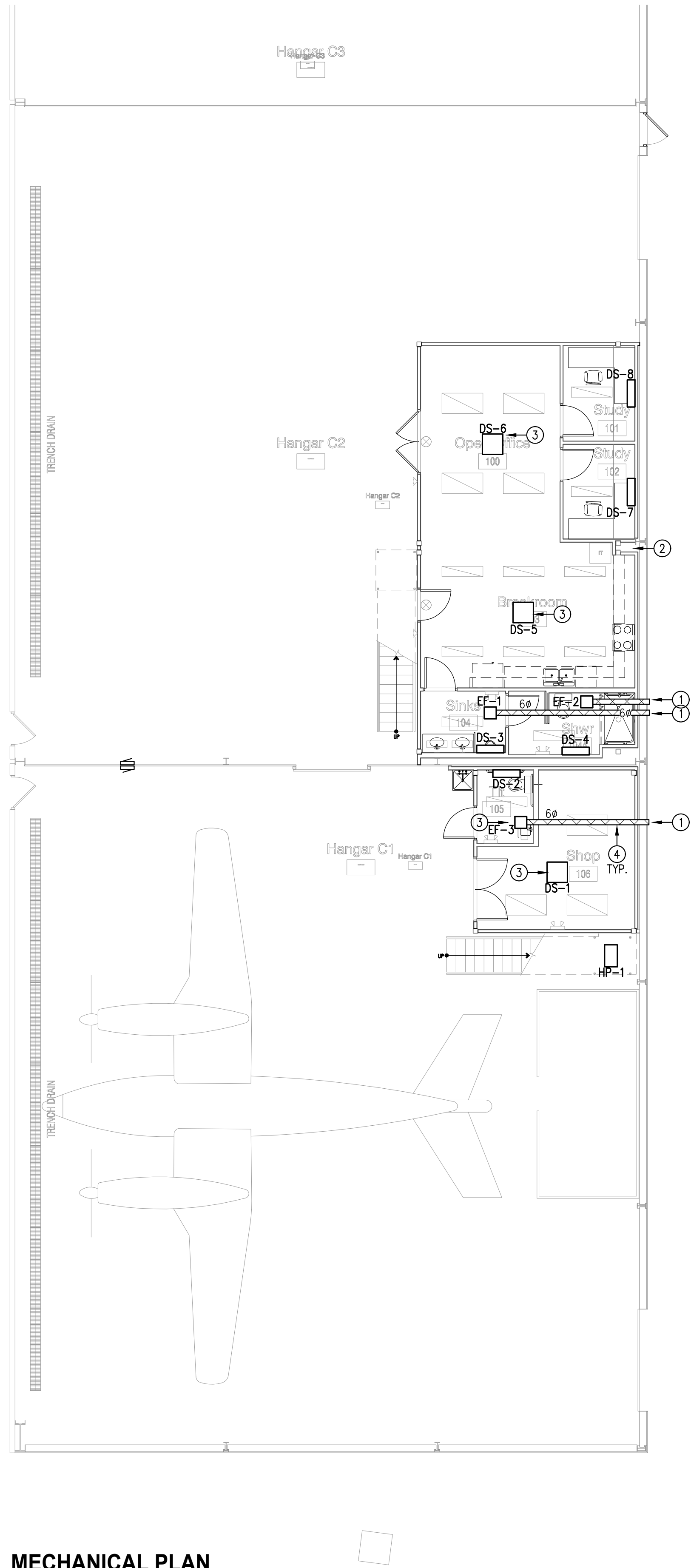
NOTES:  
1. PROVIDE WITH MANUFACTURER'S WALL CAP (BROAN 641 OR EQUAL) W/ INTEGRAL GRAVITY OPERATED BACKDRAFT DAMPER AND BIRD SCREEN.  
2. CONTROL WITH RESTROOM LIGHT SWITCH.

### GENERAL MECHANICAL SPECIFICATIONS AND NOTES

- ALL INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH ASHRAE, SMACNA, NFPA-90A, NFPA-90B AND ALL OTHER STATE AND LOCAL CODES.
- REPLACE ALL FILTERS AND VERIFY FRESH AIR DAMPERS/ECONOMIZERS FOR REQUIRED AIRFLOW AND PROPER OPERATION PRIOR TO COMPLETION OF CONSTRUCTION.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL OR FLEXIBLE DUCT SIZED AS SHOWN. SIZES SHOWN ON THE PLANS SHALL REFER TO UNOBSTRUCTED INTERNAL AIRFLOW AREA.
- ALL THERMOSTAT LOCATIONS SHALL BE FIELD COORDINATED WITH THE OWNER PRIOR TO ROUGH-IN. LOCATIONS SHOWN ARE APPROXIMATE AND MAY NOT BE REFLECTIVE OF WHAT THE OWNER PREFERS.
- COORDINATE PAINT FINISH OF ALL EXTERIOR LOUVERS, WALL CAPS, AND VENTILATORS WITH THE OWNER PRIOR TO STARTING WORK.
- ALL INTERIOR CONDENSATE PIPING SHALL BE PUMPED AND/OR GRAVITY PIPED (GRAVITY IS PREFERRED) TO THE MOP SINK OUTSIDE TOILET 105 OR TO THE NOTED EXISTING CONDENSATE PIPING FROM THE SPACE ABOVE. INTERIOR CONDENSATE PIPING SHALL BE INSULATED MINIMUM 3/4" THICK ARMAFLEX AND SHALL BE INSTALLED CONCEALED FROM SIGHT WITHIN THE OCCUPIED SPACES.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE CONSTRUCTION DOCUMENTS AND ALL EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND STARTING WORK.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH FIELD CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. ALL FIELD CHANGES AND/OR DEVIATIONS SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE ARCHITECT OR ENGINEER OF RECORD.
- DO NOT SCALE LOCATIONS FROM THESE MECHANICAL PLANS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF EQUIPMENT.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL THE NECESSARY EQUIPMENT AND ACCESSORIES TO PROVIDE A COMPLETE, OPERABLE, AND ACCEPTABLE SYSTEM.
- CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE WORK BEING PERFORMED BY OTHER TRADES TO AVOID INTERFERENCE AND CONFLICTS DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND FIRE STOPPING ASSOCIATED WITH THE WORK OF HIS TRADE.
- AT THE COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT PLANS SHOWING EXACTLY WHAT WAS CONSTRUCTED.

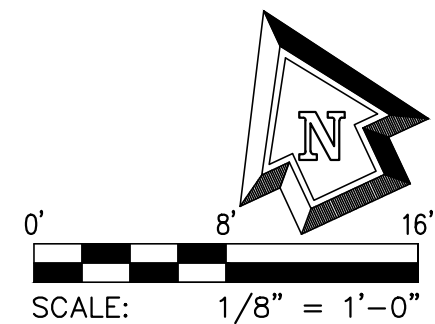
### KEYED NOTES

- PROVIDE MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND SCREEN FOR TERMINATION OR EXHAUST DUCTWORK. COORDINATE FINAL LOCATION AND HEIGHT WITH EXISTING CONDITIONS, OTHER TRADES, AND THE OWNER PRIOR TO ROUGH-IN.
- APPROXIMATE LOCATION OF EXISTING CONDENSATE PIPING FROM SPACE ABOVE. CONDENSATE MAY TIE TO THE EXISTING PIPING IF IT IS SIZED SUFFICIENTLY. FIELD VERIFY EXACT LOCATION, SIZE, ETC.
- EXHAUST FAN AND/OR CASSETTE UNIT SHALL BE RECESSED INTO THE CEILING STRUCTURE. COORDINATE PENETRATION WITH THE GENERAL CONTRACTOR, ARCHITECT, AND THE OWNER PRIOR TO ROUGH-IN.
- ALL EXHAUST DUCTWORK SHALL BE CONCEALED FROM SIGHT ABOVE THE OCCUPIED SPACE. TYPICAL OF ALL THREE (3) EXHAUST DUCTS.



### MECHANICAL PLAN

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



BID SET

### general notes

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### revisions

no.	date	description

job title

Proposed Improvements for  
C1 and C2 Hangars

1200 Capital Airport Drive  
Springfield, IL

sheet title

MECHANICAL PLAN

sheet number

M1.1

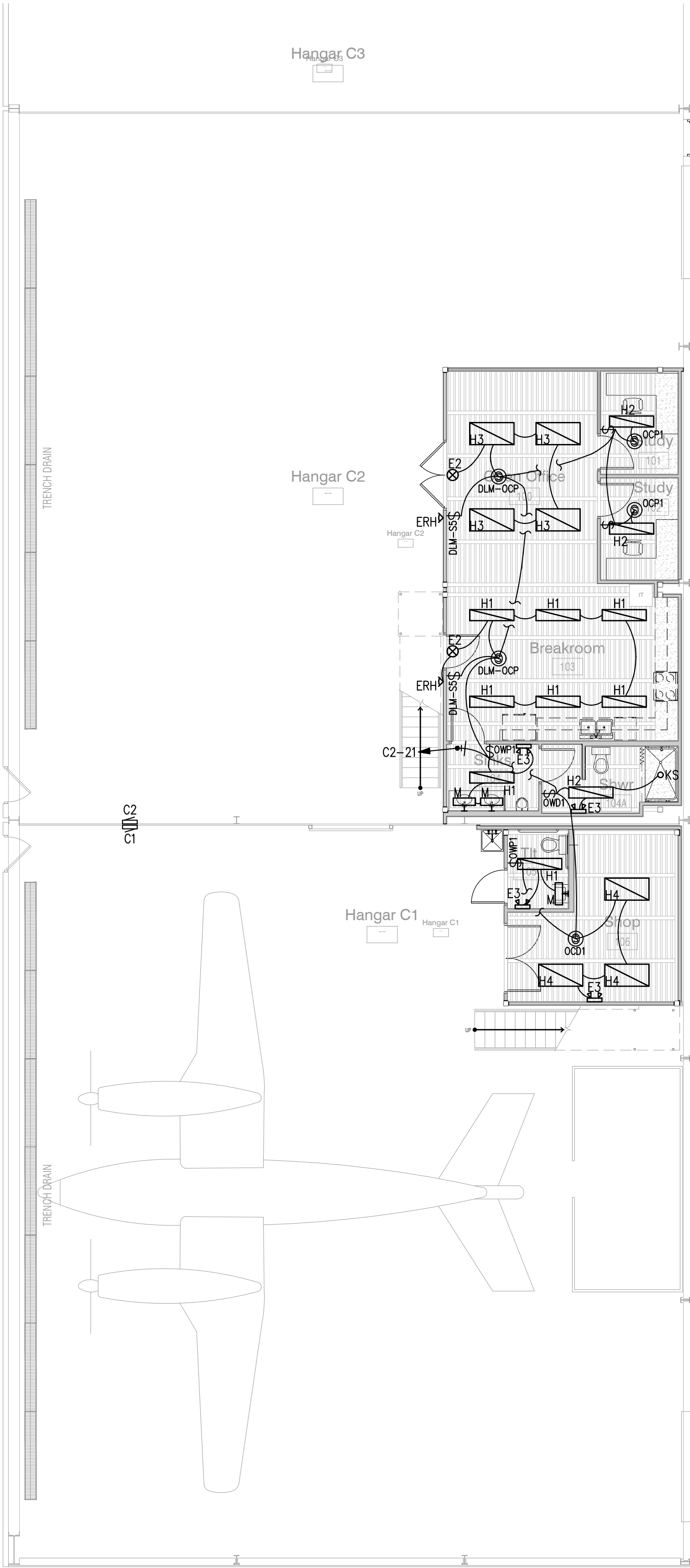
project number 2024-077 date 22APR2025

GENERAL NOTES

1. ALL ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, ETC.) AND THEIR FINAL LOCATIONS SHALL BE THOROUGHLY COORDINATED WITH THE BUILDING SYSTEM TO ENSURE COMPATIBILITY.

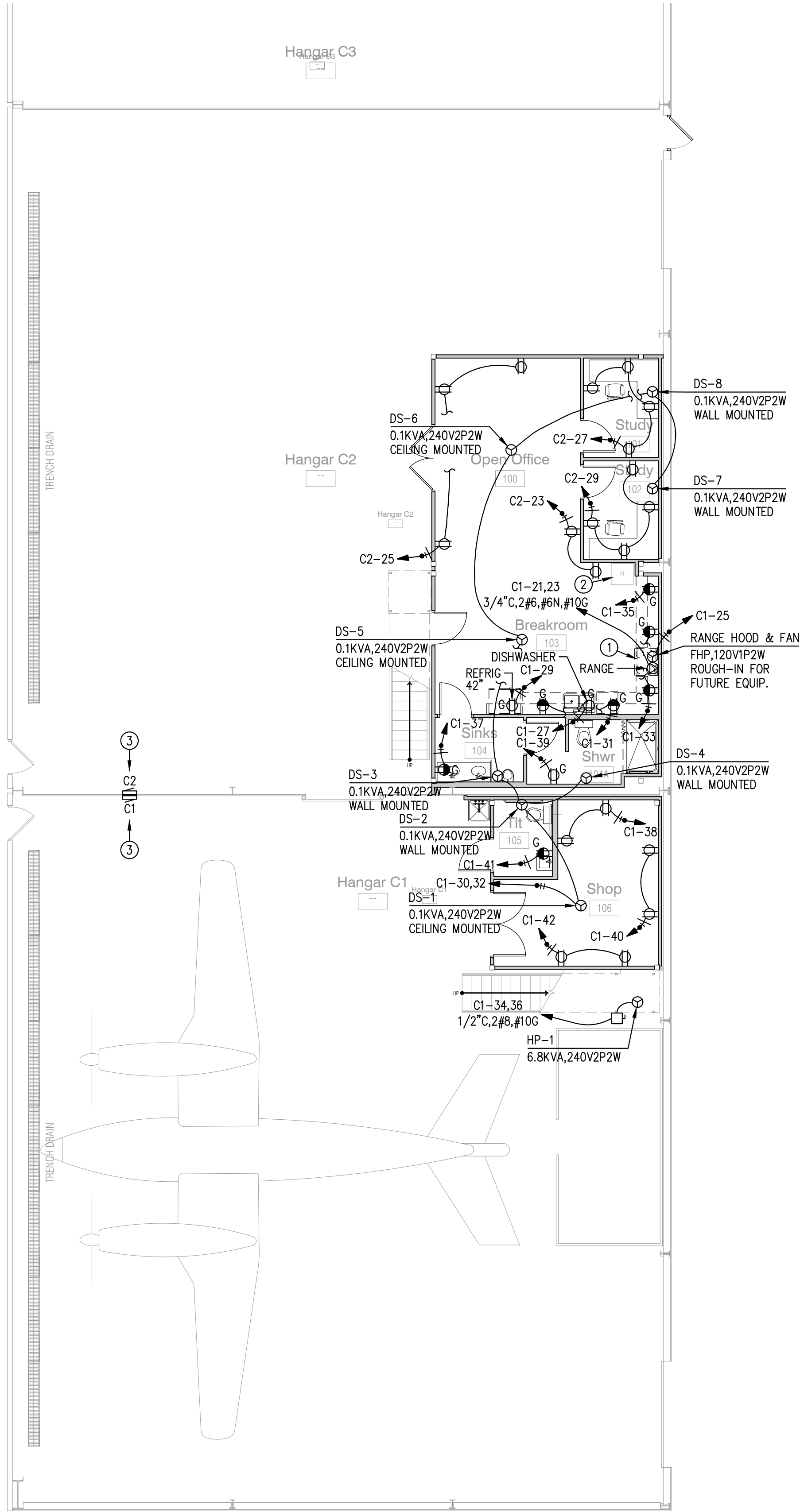
KEYED NOTES

1. PROVIDE ROUGH-IN FOR FUTURE RANGE AND NFPA 101 COMPLIANT RANGE HOOD. RANGE SHALL BE WIRED THROUGH RANGE HOOD DISCONNECT SWITCH.
2. EXISTING IT CABINET AND ASSOCIATED DATA/POWER TO REMAIN.
3. EXISTING ELECTRICAL PANEL (SQUARE D QO LOAD CENTER) TO REMAIN AND BE RE-USED. PROVIDE NEW BREAKERS AS NECESSARY TO ACCOMMODATE THE NEW CIRCUITS NOTED.



ELECTRICAL LIGHTING PLAN

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



ELECTRICAL POWER PLAN

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

general notes

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1200 Capital Airport Drive  
Springfield, IL

sheet title

**ELECTRICAL PLAN**

sheet number

**E1.1**

project number 2024-077 date 22APR2025

0' 8' 16'

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

**BID SET**

RECEPTACLE LEGEND			
CALLOUT	SYMBOL	VPW	FEATURES
STANDARD		120V 1P 2W	G = GROUND FAULT PROTECTED WP = WEATHERPROOF – PROVIDE GFCI RECEPTACLE WITH WHILE-IN-USE COVER. TV = TV RECEPTACLE – PROVIDE POWER (AND NETWORK CONN.) AT APPROX. 60" AFF. FIELD COORDINATE FINAL HEIGHT. USB = COMBINATION USB (A+C) AND 120 VOLT RECEPTACLE.
QUADRAPLEX		120V 1P 2W	
RECESSED FLOOR RECEPT.		120V 1P 2W	
SIMPLEX		120V 1P 2W, U.N.O.	
JUNCTION BOX		120V 1P 2W, U.N.O.	
COUNTER RECEPTACLE		120V 1P 2W	COUNTER RECEPTACLE(S) SHALL BE INSTALLED AT 2" ABOVE BACKSPASH TO BOTTOM OF RECEPTACLE, U.N.O.

NOTES: ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE AND SHALL BE RATED FOR 20 AMPS, UNLESS NOTED OTHERWISE.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EQUIPMENT/MOTOR LOAD
	SURFACE MOUNT RACEWAY – WIREMOLD SERIES 4000 OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. COORDINATE FINISH WITH ARCHITECT.
	SAFETY DISCONNECT SWITCH (NON–FUSED)
	SAFETY DISCONNECT SWITCH (FUSED)

LUMINAIRE SCHEDULE							
TAG	SYMBOL	DESCRIPTION	MODEL	LAMP	VOLTS	GENERAL NOTES	INSTALLATION NOTES
E2		EXIT SIGN WITH EMERGENCY LIGHTING & REMOTE CAPACITY	SURE–LITES: LPXC25R3SD LITHONIA: LHQM LED R HO SD	(1) 5W LED	120V 1P 2W	ADJUST CHEVRONS TO ACCOMMODATE EGRESS PATH. PROVIDE PANDANT MOUNTING KIT TO ACCOMMODATE CEILING TYPE, IF REQUIRED.	
E3		EMERGENCY LIGHTING	SURE–LITES: SEL60SD LITHONIA: ELM4L	(1) 5W LED	120V 1P 2W	INSTALL AT APPROXIMATELY 7.5'. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH–IN.	
ERH		REMOTE EMERGENCY LIGHTING	SURE–LITES: SRP LITHONIA: ELA SD QWP L0309	(1) 1W LED	120V 1P 2W	COORDINATE FINAL COLOR AND LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN. FIXTURE SHALL BE RATED FOR EXTERIOR USE.	
H1		1'x4' SURFACE MOUNT LUMINAIRE (~2700L)	WILLIAMS: PTS 1 4 L27 8 35 SA	(1) 22W LED	120V 1P 2W	LUMINAIRE SHALL REPLACE EXISTING LUMINAIRE AT THE SAME LOCATION, UNLESS NOTED OTHERWISE. CONTROLS SHALL REMAIN AS–IS.	SURFACE MOUNT LUMINAIRE HOUSING (KIT) SHALL BE LESS THEN 2.5 INCHES THICK/DEEP AND LUMINAIRE SHALL BE INSTALLED TIGHT TO THE CEILING.
H2		1'x4' SURFACE MOUNT LUMINAIRE (~4500L)	WILLIAMS: PTS 1 4 L45 8 35 SA	(1) 34W LED	120V 1P 2W	LUMINAIRE SHALL REPLACE EXISTING LUMINAIRE AT THE SAME LOCATION, UNLESS NOTED OTHERWISE. CONTROLS SHALL REMAIN AS–IS.	SURFACE MOUNT LUMINAIRE HOUSING (KIT) SHALL BE LESS THEN 2.5 INCHES THICK/DEEP AND LUMINAIRE SHALL BE INSTALLED TIGHT TO THE CEILING.
H3		2'x4' SURFACE MOUNT LUMINAIRE (~4900L)	WILLIAMS: PTS 2 4 L49 8 35 SA	(1) 38W LED	120V 1P 2W	LUMINAIRE SHALL REPLACE EXISTING LUMINAIRE AT THE SAME LOCATION, UNLESS NOTED OTHERWISE. CONTROLS SHALL REMAIN AS–IS.	SURFACE MOUNT LUMINAIRE HOUSING (KIT) SHALL BE LESS THEN 2.5 INCHES THICK/DEEP AND LUMINAIRE SHALL BE INSTALLED TIGHT TO THE CEILING.
H4		2'x4' SURFACE MOUNT LUMINAIRE (~6100L)	WILLIAMS: PTS 2 4 L61 8 35 SA	(1) 49W LED	120V 1P 2W	LUMINAIRE SHALL REPLACE EXISTING LUMINAIRE AT THE SAME LOCATION, UNLESS NOTED OTHERWISE. CONTROLS SHALL REMAIN AS–IS.	SURFACE MOUNT LUMINAIRE HOUSING (KIT) SHALL BE LESS THEN 2.5 INCHES THICK/DEEP AND LUMINAIRE SHALL BE INSTALLED TIGHT TO THE CEILING.
KS		6" SURFACE MOUNT DOWNLIGHT	HALO: SMD6R–12–WH–E JUNO: JSF 7IN 10LM 90CRI MVOLT ZT WH	(1) 13W LED	120V 1P 2W	LUMINAIRE SHALL BE RATED FOR WET LOCATION.	
M		WALL MOUNT VANITY LUMINAIRE (36")	AFX: BRCV2403LAJUDSN	(1) 25W LED	120V 1P 2W	FINISH SHALL BE SATIN NICKEL. SEE ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT. INITIAL SETTINGS SHALL BE 3000K WITH BOTH UP AND DOWN LIGHT.	

COLOR TEMPERATURE (CCT) FOR ALL LUMINAIRES SHALL BE 3500K, UNLESS REQUIRED OTHERWISE BY THE OWNER.

GENERAL ELECTRICAL NOTES AND SPECIFICATIONS	
GENERAL NOTES: 1. ALL INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS ALL OTHER STATE AND LOCAL CODES. 2. ELECTRICAL CONTRACTOR SHALL VERIFY AND MAINTAIN PROPER WORKING CLEARANCES ABOUT ALL ELECTRICAL PANELS AND EQUIPMENT IN ACCORDANCE WITH THE NEC. 3. MINIMUM WIRE SIZE SHALL BE #12 AWG, COPPER AND MINIMUM CONDUIT SIZING SHALL BE IN ACCORDANCE WITH THE NEC. UNLESS NOTED OTHERWISE, ALL WIRING SHALL BE THHN. 4. ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE CONSTRUCTION DOCUMENTS AND ALL EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND STARTING WORK. 5. IF THE CONTRACTOR INCURS A PROBLEM IN COMPLYING WITH THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ARCHITECT IMMEDIATELY. 6. DO NOT SCALE LOCATIONS FROM THESE ELECTRICAL PLANS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF EQUIPMENT. 7. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL THE NECESSARY EQUIPMENT AND ACCESSORIES TO PROVIDE A COMPLETE, OPERABLE, AND ACCEPTABLE SYSTEM. 8. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH FIELD CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. ALL FIELD CHANGES AND/OR DEVIATIONS SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE ARCHITECT OR ENGINEER OF RECORD. ALL CONSTRUCTION MATERIAL SHALL BE NEW AND SHALL HAVE U.L. LABELS, WHERE APPLICABLE. 9. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN THE JURISDICTION WHERE THE WORK IS BEING PERFORMED. 10. CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE WORK BEING PERFORMED BY OTHER TRADES TO AVOID INTERFERENCE AND CONFLICTS DURING CONSTRUCTION. 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND FIRE STOPPING ASSOCIATED WITH THE WORK OF HIS TRADE. 12. BUILDING COMMUNICATIONS SYSTEMS (INCLUDING INTERNET, TELEPHONE, SECURITY, ETC) SHALL BE FULLY COORDINATED WITH BOTH THE ASSOCIATED UTILITY COMPANY AND THE OWNER.	
ELECTRICAL POWER NOTES: 1. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMPERAGE OF ALL EQUIPMENT PRIOR TO INSTALLATION TO ASSURE PROPER WIRE, CONDUIT, AND BREAKERS SIZES ARE PROVIDED. 2. ELECTRICAL CONTRACTOR SHALL INCREASE WIRE SIZES AS NECESSARY TO MAINTAIN VOLTAGE DROP LESS THAN 3%, BASED ON FINAL CONDUCTOR ROUTING AND CIRCUIT LOADING. 3. ADDITIONALLY, CONDUCTOR SIZES SHALL BE INCREASED AS REQUIRED BY THE NEC TO ACCOMMODATE CONDUIT LOADING. 4. ELECTRICAL CONTRACTOR SHALL DE-RATE WIRING CAPACITIES AS REQUIRED BY THE NEC TO ACCOUNT FOR THE QUANTITY OF CURRENT CARRYING CONDUCTORS IN A GIVEN CONDUIT BASED ON FINAL CONDUIT LOADING. 5. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATIONS (INCLUDING ELEVATIONS) OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH–IN. 6. WHERE PANELS ARE EXISTING, CONTRACTOR SHALL VERIFY PANEL MANUFACTURER AND TYPE IN ORDER TO PROVIDE THE CORRECT BREAKERS AS NECESSARY TO ACCOMMODATE THE CIRCUITS NOTED. 7. ALL ELECTRICAL PANELS SHALL BE LABELED WITH NEW TYPE WRITTEN, COMPUTER GENERATED DIRECTORIES. 8. WHERE REQUIRED, BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HAZR RATED. ANY BREAKERS BEING USED AS A PRIMARY MEANS OF TURNING ON AND OFF LIGHTING, SHALL BE SWITCH RATED. ADDITIONALLY, BREAKERS SERVING LIGHTING THAT IS CONTROLLED ONLY BY MEANS OF CEILING OCCUPANCY SENSOR (NO WALL SWITCH) SHALL BE SWITCH RATED. 9. ALL ELECTRICAL RECEPTACLES AND DATA TERMINALS SHALL BE INSTALLED IN THE VERTICAL POSITION AT 18" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. ALL SWITCHES SHALL BE INSTALLED AT 42" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. 10. STANDARD RECEPTACLE SHALL BE A 20 AMP, TAMPER RESISTANT RECEPTACLE.	
ELECTRICAL LIGHTING NOTES: 1. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE STRUCTURE. 2. ALL EMERGENCY LIGHTING SHALL BE WIRED UNSWITCHED TO THE NOTED CIRCUIT, INCLUDING EMERGENCY WALL PACKS, EXIT SIGNS, EMERGENCY BALLASTS/DRIVERS, BATTERY BACKUPS, ETC. WHEN EMERGENCY EQUIPMENT IS SHOWN ON A COMMON CIRCUIT WITH GENERAL LIGHTING, THE EMERGENCY EQUIPMENT SHALL BE WIRED TO THAT SAME CIRCUIT UNSWITCHED. 3. AS A MINIMUM, ALL EMERGENCY LIGHTING SHALL OPERATE FOR 90 CONTINUOUS MINUTES. 4. WHERE STANDARD SWITCHES ARE SHOWN IN COORDINATION WITH CEILING MOUNTED OCCUPANCY SENSORS, THE STANDARD SWITCHES SHALL OPERATE AS A MASTER OFF SWITCH. WHEN THE STANDARD SWITCH IS OFF, THE LIGHTING SHALL BE OFF. WHEN THE STANDARD SWITCH IS ON, THE LIGHTING SHALL BE CONTROLLED BY THE CEILING SENSOR. 5. IN GENERAL, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING (DMX, 0–10V, ETC) AS NECESSARY TO ACCOMMODATE THE SWITCHING AND/OR CONTROL SHOWN ON THE PLANS.	
GENERAL LIGHTING CONTROL NOTES (IECC): 1. IN GENERAL, ALL WALL MOUNT OCCUPANCY SENSOR SWITCHES IN NON–CORRIDOR AND NON–STAIR AREAS SHALL BE CONTROLLED AS MANUAL ON AND AUTO OFF. WHERE DIMMING OCCUPANCY SENSORS ARE PROVIDED, AND WHERE SPECIFICALLY NOTED, THE SENSOR MAY CONTROL THE LIGHTING AS AUTO ON (TO 50% MAXIMUM) AND AUTO OFF. LIGHTING SHALL BE TURNED OFF AFTER A MAXIMUM NON–OCCURRED TIME OF 20 MINUTES. FINAL SETTINGS SHALL BE IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL BE COORDINATED WITH THE OWNER PRIOR TO COMPLETION OF WORK. 2. FULL AUTOMATIC CONTROLS WITH NO MANUAL CONTROLS SHALL BE PERMITTED IN CORRIDORS, INTERIOR PARKING AREAS, STAIRWAYS, RESTROOMS, LOCKER ROOMS, LOBBIES, LIBRARY STACKS, AND WHERE MANUAL OPERATION WOULD ENDANGER OCCUPANT SAFETY OR SECURITY. 3. THE FOLLOWING AREAS DO NOT REQUIRE LIGHTING CONTROLS: – AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT ARE REQUIRED TO BE CONTINUOUSLY LIGHTED. – EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF. – INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS, AND EXIT PASSAGEWAYS. 4. ALL OCCUPANT SENSOR CONTROLLED AREAS SHALL BE PROVIDED WITH A MANUAL OVERRIDE SWITCH TO TURN OFF THE LIGHTING IN THE AREA. SEE EXCEPTIONS ABOVE FOR AREAS WHERE MANUAL CONTROLS IS NOT REQUIRED. THE MANUAL OVERRIDE SWITCH SHALL BE READILY ACCESSIBLE TO THE OCCUPANTS AND THE LIGHTING SHALL BE VISIBLE FROM THE SWITCH LOCATION OR THE SWITCH SHALL BE CLEARLY LABELED AND SHALL HAVE LIGHTING STATUS INDICATION.	
KITCHEN NOTES: 1. ALL CIRCUITS SUPPLYING POWER TO RECEPTACLES OR EQUIPMENT UNDER THE KITCHEN HOOD SHALL BE PROTECTED WITH SHUNT–TRIP BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). THESE CIRCUITS SHALL BE SHUNT TRIPPED IF THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED. 2. ALL KITCHEN RECEPTACLES (15–AMP AND 20–AMP) SHALL BE GFCI PROTECTED, UNLESS NOTED OTHERWISE. GFCI RECEPTACLES ARE ACCEPTABLE IN LOCATIONS WHERE THE RECEPTACLES IS READILY ACCESSIBLE. WHERE NOT READILY ACCESSIBLE, A GFCI BREAKER SHALL BE USED.	
GENERAL DEMOLITION NOTES: 1. SEE ARCHITECTURAL PLANS FOR GENERAL DEMOLITION REQUIREMENTS. 2. IN GENERAL, POWER TO ALL ABANDONED EQUIPMENT AND EQUIPMENT TO BE ABANDONED DURING THIS PROJECT SHALL BE REMOVED. WHILE SOME SPECIFIC ITEMS HAVE BEEN NOTED FOR REMOVAL, MANY HAVE NOT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY (AND COORDINATE WITH THE OWNER AND ARCHITECT) FINAL DEMOLITION REQUIREMENTS. 3. REMOVAL OF ELECTRICAL EQUIPMENT SHALL INCLUDE: – DE–ENERGIZING OF THE EQUIPMENT. – REMOVAL OF THE EQUIPMENT. – REMOVAL OF CONTROLS ASSOCIATED WITH EQUIPMENT (IF PRESENT AND UNLESS REQUIRED OTHERWISE). – REMOVAL OF CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EQUIPMENT, INCLUDING REMOVAL OF CONDUIT AND CONDUCTORS BACK TO SOURCE – JUNCTION BOX, BREAKER, ETC, UNLESS NOTED OTHERWISE. – IF CONDUIT AND CONDUCTORS ARE REMOVED BACK TO AN OVERCURRENT PROTECTION DEVICE (OCPD), THE OCPD SHALL BE TURNED OFF (IF BREAKER) AND THE CIRCUIT IN THE PANEL SCHEDULE SHALL BE RE–LABELED AS "SPARE." 5. IN AREAS WHERE LIGHTING MAY BE REMOVED PRIOR TO INSTALLATION OF NEW LUMINAIRES, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY LIGHTING UNTIL THE NEW LUMINAIRES ARE INSTALLED AND OPERATIONAL.	

SWITCH SCHEDULE					
SYMBOL	DESCRIPTION	MANUFACTURER/ MODEL NO.	GENERAL NOTES	INSTALLATION NOTES	
	DLM OCC SENSOR [DLM–OCF]	WATTSTOPPER LMDC–100 WITH EXTENDED RANGE LENS OR APPROVED EQUAL. PROVIDE LMRC–211 ON/OFF/0–10 VOLT DIMMING ROOM CONTROLLER AS REQUIRED BY THE MANUFACTURER TO COMPLETE THE INSTALLATION.	DUAL TECHNOLOGY CEILING SENSOR FOR USE WITH DIGITAL LIGHTING MANAGEMENT (DLM) SYSTEM.	WHERE SAT CEILING IS PRESENT, INSTALL IN CENTER OF 2x2 CEILING TILE.	
	DLM SWITCH [DLM–SS]	WATTSTOPPER LMSW–105 5–BUTTON SWITCH OR APPROVED EQUAL. PROVIDE LMRC–211 ON/OFF/0–10 VOLT DIMMING ROOM CONTROLLER AS REQUIRED BY THE MANUFACTURER TO COMPLETE THE INSTALLATION. SWITCH SHALL BE PROGRAMMED FOR 100%, 75%, 50%, AND OFF. 5TH BUTTON SHALL CONTROL DIMMING.	BOX MOUNT DIMMER SWITCH FOR USE WITH DIGITAL LIGHTING MANAGEMENT (DLM) SYSTEM.	INSTALL AT 48" ABOVE FINISH FLOOR TO CENTER OF BOX.	
	OCC SENSOR [OCD1]	WATTSTOPPER DT–300, SENSORSWITCH CMPDT10, OR EQUAL. PROVIDE POWER PACKS AS REQUIRED BY THE MANUFACTURER TO COMPLETE THE INSTALLATION.	DUAL TECHNOLOGY CEILING SENSOR FOR CONTROL OF SINGLE LIGHTING LOAD WITH ISOLATED RELAY FOR USE WITH OTHER BUILDING SYSTEMS.	WHERE SAT CEILING IS PRESENT, INSTALL IN CENTER OF 2x2 CEILING TILE.	
	OCC SENSOR [OCP1]	WATTSTOPPER CI–200 OR APPROVED EQUAL. PROVIDE POWER PACKS AS REQUIRED BY THE MANUFACTURER TO COMPLETE THE INSTALLATION.	PIR CEILING SENSOR FOR CONTROL OF SINGLE LIGHTING LOAD WITH ISOLATED RELAY FOR USE WITH OTHER BUILDING SYSTEMS.	WHERE SAT CEILING IS PRESENT, INSTALL IN CENTER OF 2x2 CEILING TILE.	
	OCC SENSOR [OWD1]	WATTSTOPPER DSW–301, SENSORSWITCH WSXAPDT10, OR EQUAL.	DUAL TECHNOLOGY WALL SENSOR FOR CONTROL OF SINGLE LIGHTING LOAD.	INSTALL AT 48" ABOVE FINISH FLOOR TO CENTER OF BOX.	
	OCC SENSOR [OWP1]	WATTSTOPPER PW–301, SENSORSWITCH WSXA, OR APPROVED EQUAL.	PIR WALL SENSOR FOR CONTROL OF SINGLE LIGHTING LOAD.	INSTALL AT 48" ABOVE FINISH FLOOR TO CENTER OF BOX.	
	STANDARD SWITCH	LEVITON 1221–2, HUBBELL HBL1221, P&S 20AC1	SWITCH SHALL BE INDUSTRIAL SPECIFICATION GRADE. UNLESS NOTED OTHERWISE, ALL SWITCHES AND COVERPLATES SHALL BE WHITE.	INSTALL AT 48" ABOVE FINISH FLOOR TO CENTER OF BOX.	

Panel C1								Panel C2															
ROOM MOUNTING SURFACE FED FROM UTILITY NOTE: EXISTING PANEL TO REMAIN. PROVIDE NEW BREAKERS AS REQUIRED.				VOLTS 240/120V 2P 3W BUS AMPS 200 NEUTRAL 100%				A/C EXISTING MAIN BKR MLO LUGS STANDARD															
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION								
1	20/2	0	EXISTING CIRCUIT	a 2	20/1	0	EXISTING CIRCUIT	1	50/2	0	EXISTING CIRCUIT	a 2	20/2	0	EXISTING CIRCUIT								
3				b 4	20/1	0	EXISTING CIRCUIT	3				b 4											
5	20/1	0	EXISTING CIRCUIT	a 6	20/1	0	EXISTING CIRCUIT	5	20/1	0	EXISTING CIRCUIT	a 6	20/1	0	EXISTING CIRCUIT								
7	20/1	0	EXISTING CIRCUIT	b 8	20/1	0	EXISTING CIRCUIT	7	20/1	0	EXISTING CIRCUIT	b 8	20/1	0	EXISTING CIRCUIT								
9	20/1	0	EXISTING CIRCUIT	a 10	20/1	0	EXISTING CIRCUIT	9	20/1	0	EXISTING CIRCUIT	a 10	20/1	0	EXISTING CIRCUIT								
11	50/2	0	EXISTING CIRCUIT	b 12	20/1	0	EXISTING CIRCUIT	11	20/1	0	EXISTING CIRCUIT	b 12	20/1	0	EXISTING CIRCUIT								
13				a 14	20/1	0	EXISTING CIRCUIT	13	20/1	0	EXISTING CIRCUIT	a 14	20/1	0	EXISTING CIRCUIT								
15	20/1	0	EXISTING CIRCUIT	b 16	30/2	0	EXISTING CIRCUIT	15	20/1	0	EXISTING CIRCUIT	b 16	50/2	0	EXISTING CIRCUIT								
17	20/1	0	EXISTING CIRCUIT	a 18				17	20/1	0	SPARE	a 18											
19	20/1	0	SPARE	b 20	20/1	0	EXISTING CIRCUIT	19	20/1	0	SPARE	b 20	20/1	0	SPARE								
21	50/2	9.6	RANGE	a 22	40/2	0	EXISTING CIRCUIT	21	20/1	0.697	LIGHTING	a 22	20/1	0	SPARE								
23				b 24				23	20/1	0.36	RECEPTACLE	b 24	20/1	0	SPARE								
25	20/1	0.1	RANGE HOOD & FAN	a 26	20/1	0	SPARE	25	20/1	0.54	RECEPTACLE	a 26	20/1	0	SPARE								
27	20/1	0.9	DISHWASHER	b 28	20/1	0	SPARE	27	20/1	0.72	RECEPTACLE	b 28	20/1	0	SPARE								
29	20/1	0.9	REFRIGERATOR	a 30	20/2	0.8	DS-1, DS-2, DS-3, DS-4, DS-5, DS-6, DS-7, DS-8	29	20/1	0.72	RECEPTACLE	a 30	20/1	0	SPARE								
31	20/1	0.36	RECEPTACLE	b 32				31	20/1	0	SPARE	b 32	20/1	0	SPARE								
33	20/1	0.36	RECEPTACLE	a 34	40/2	6.8	HP-1	33	20/1	0	SPARE	a 34	20/1	0	SPARE								
35	20/1	0.18	RECEPTACLE	b 36				35	20/1	0	SPARE	b 36	20/1	0	SPARE								
37	20/1	0.18	RECEPTACLE	a 38	20/1	0.36	RECEPTACLE	37	20/1	0	SPARE	a 38	20/1	0	SPARE								
39	20/1	0.18	RECEPTACLE	b 40	20/1	0.36	RECEPTACLE	39	20/1	0	SPARE	b 40	20/1	0	SPARE								
41	20/1	0.18	RECEPTACLE	a 42	20/1	0.36	RECEPTACLE	41	20/1	0	SPARE	a 42	20/1	0	SPARE								
<div>CONN KVA</div> <div>LARGEST MOTOR 0.1</div> <div>MOTORS 7.7</div> <div>RECEPTACLES 2.52</div> <div>0.025 (25%)</div> <div>7.7 (100%)</div> <div>2.52 (50%&gt;10)</div>								<div>CONN KVA</div> <div>KITCHEN EQUIPMENT 0.9</div> <div>CONTINUOUS 9.6</div> <div>NONCONTINUOUS 0.9</div> <div>24</div> <div>100 A</div> <div>102%</div> <div>97.9%</div>								<div>CONN KVA</div> <div>LIGHTING 0.697</div> <div>RECEPTACLES 2.34</div> <div>0.871 (125%)</div> <div>2.34 (50%&gt;10)</div> <div>TOTAL LOAD</div> <div>BALANCED LOAD</div> <div>PHASE A</div> <div>PHASE B</div> <div>3.21</div> <div>13.4 A</div> <div>129%</div> <div>71.1%</div>							