

McHenry County College

Student Farm Renovations

8900 Northwest Hwy #14,
Crystal Lake, IL 60012

ISSUED FOR BID - NOT FOR CONSTRUCTION

04/21/2026

DKA PROJECT NO: 25-037

MCC BID NO: IFB#05142026_AG



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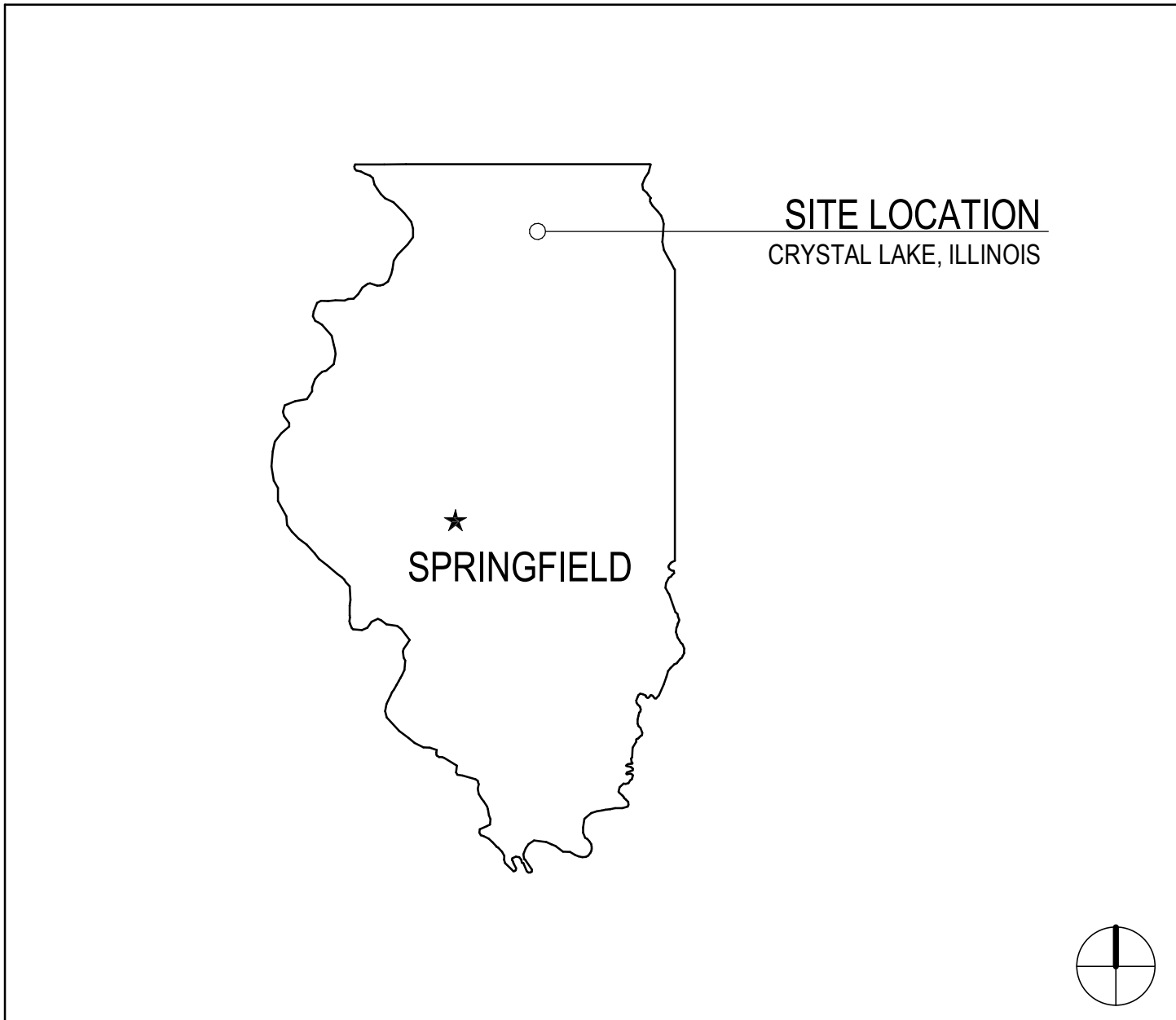


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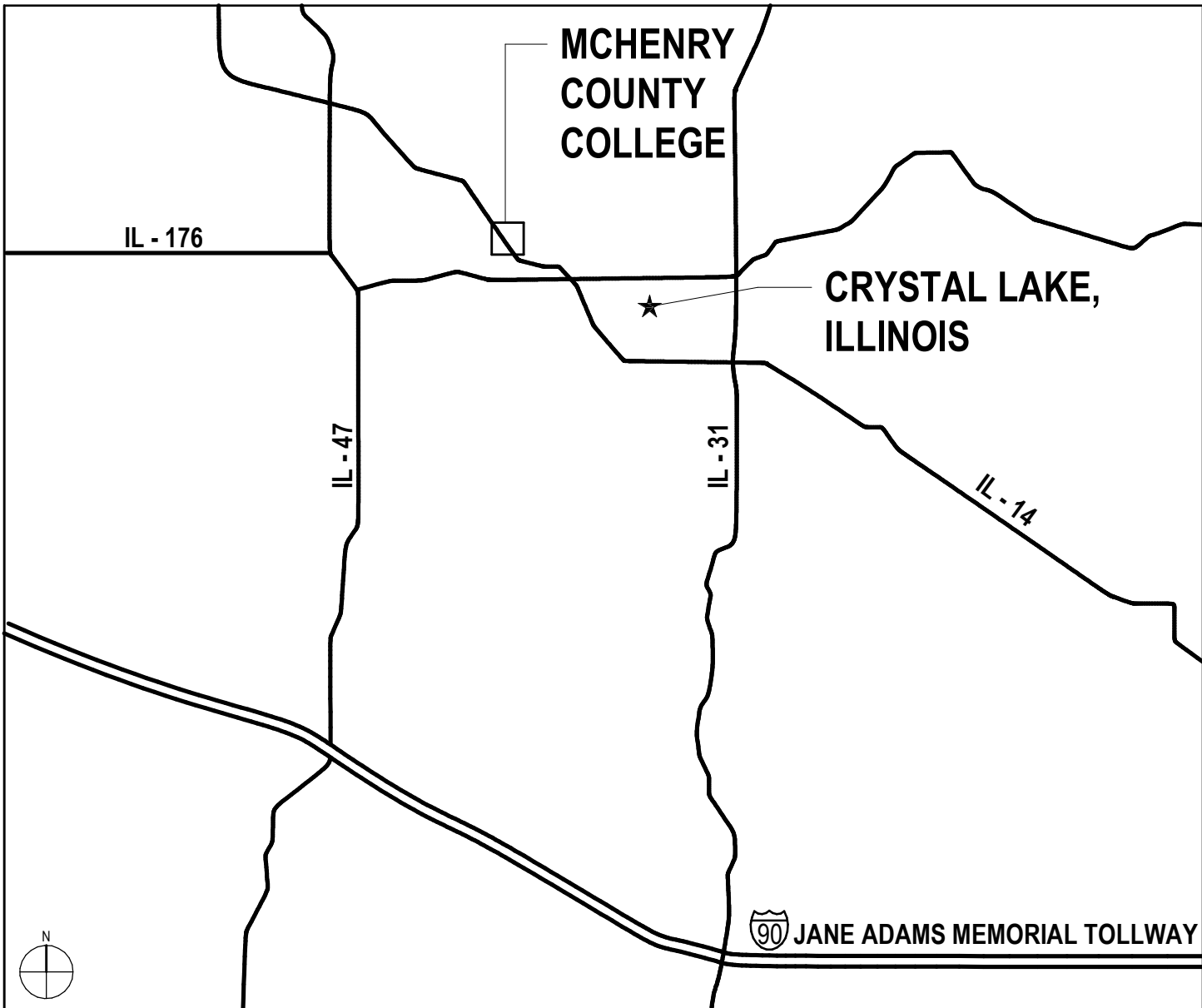
ABBREVIATIONS

A.P.	ACCESS PANEL	HDW.	HARDWARE	TEL.	TELEPHONE
ACoust.	ACOUSTICAL	HDWD.	HARDWOOD	T.V.	TELEVISION
A.C.T.	ACOUSTICAL CEILING TILE	HDR.	HEADER	TRZ.	TERRAZZO
ADJ.	ADJACENT	HTG.	HEATING	T.B.	TILE BASE
A.F.F.	ABOVE FINISH FLOOR	H.V.A.C.	HEATING, VENTILATING, AIR CONDITIONING	THK.	THICK
AGGR.	AGGREGATE	HT.	HEIGHT	T.O.C.	TOP OF CURB
A/C	AIR CONDITIONING	H.C.	HOLLOW CORE	T.O.P.	TOP OF PAVEMENT
ALT.	ALTERNATE	H.M.	HOLLOW METAL	T.O.W.	TOP OF WALL
ALUM.	ALUMINUM	H.M.F.	HOLLOW METAL FRAME	T&G	TONGUE AND GROOVE
L.	ANGLE	HORZ.	HORIZONTAL	TYP.	TYPICAL
APPD.	APPROVED	H.B.	HOSE BIB		
APPROX.	APPROXIMATE	HR.	HOUR	UNF.	UNFINISHED
ARCH.	ARCHITECTURAL OR ARCHITECT			U.N.O.	UNLESS NOTED OTHERWISE
A.D.	AREA DRAIN	INC.	INCLUDE	UR.	URINAL
ASB.	ASBESTOS	I.D.	INSIDE DIAMETER		
ASPH.	ASPHALT	INSUL.	INSULATION	V.B.	VINYL BASE
A/V	AUDIO VISUAL	INTR.	INTERIOR	VERT.	VERTICAL
		INV.	INVERT	VEST.	VESTIBULE
				V.C.T.	VINYL COMPOSITION TILE
				V.W.	VINYL WALLCOVERING
BSMT.	BASEMENT			WSCT.	WAINSCOT
BRG.	BEARING	JAN.	JANITOR	W.C.	WATER CLOSET
BM.	BEAM	JT.	JOINT	WLK.	WALK-OFF MAT
BTW.	BETWEEN	KIT.	KITCHEN	W.R.	WATER RESISTANT
BITUM.	BITUMINOUS	LAM.	LAMINATE	WT.	WALL TILE OR WEIGHT
BLK.	BLOCK	LAV.	LAVATORY	W.	WEST
BLKG.	BLOCKING	L.H.	LEFT HAND	W	WIDE FLANGE "W16x21"
BD.	BOARD	LGTH.	LENGTH	W	WIDTH
BRK.	BRICK	LT.	LIGHT	W/	WITH
BLDG.	BUILDING	L.W.C.	LIGHT WEIGHT CONCRETE	W/O	WITHOUT
		LTL.	LINOLEUM	WD.	WOOD
CAB.	CABINET	LL.	LIVE LOAD	WD.P.	WOOD PANEL
C.I.P.	CAST IN PLACE			X	EXISTING
C.I.P.C.	CAST IN PLACE CONCRETE				
C.I.	CURB INLET	MH.	MANHOLE		
C.B.	CATCH BASIN	MFR.	MANUFACTURER		
CLG.	CEILING	MAS.	MASONRY		
CTR.	CENTER	M.O.	MASONRY OPENING		
C.J.	CONTROL JOINT	MTL.	METAL		
C.L.	CENTER LINE	MAX.	MAXIMUM		
CPT.	CARPET	MECH.	MECHANICAL		
C.T.	CERAMIC TILE	M.T.C.	MECHANICAL TRADES CONTRACTOR		
CLR.	CLEAR	MEMB.	MEMBRANE		
CLO.	CLOSET	M.T.	MARBLE TILE		
COL.	COLUMN	MIN.	MINIMUM		
CONC.	CONCRETE	MISC.	MISCELLANEOUS		
CONN.	CONNECTION	MTD.	MOUNDED		
CONST.	CONSTRUCTION	MTG.	MOUNTING		
C.M.	CONSTRUCTION MANAGER	MUL.	MULLION		
CONT.	CONTINUOUS OR CONTINUE				
CONTR.	CONTRACTOR	NOM.	NOMINAL		
CK.	CORK	N	NORTH		
CORR.	CORRIDOR	N.I.C.	NOT IN CONTRACT		
CNSK.	COUNTERSUNK	N.T.S.	NOT TO SCALE		
CRS.	COURSE	NO. OR #	NUMBER		
DEMO	DEMOLISH OR DEMOLITION	OBS.	OBSURE		
DEPT.	DEPARTMENT	OFF.	OFFICE		
D.L.	DEAD LOAD	O.C.	ON CENTER		
DIA.	DIAMETER	OPNG.	OPENING		
DIM.	DIMENSION	OPP.	OPPOSITE		
DISP.	DISPENSER	O.S.B.	ORIENTED STRAND BOARD		
DIV.	DIVISION	O.D.	OUTSIDE DIAMETER		
DR.	DOOR	OA.	OVERALL		
D.O.	DOOR OPENING	OF.D.	OVERFLOW DRAIN		
DBL.	DOUBLE				
DS.	DOWNSPOUT	PT.	PAINT		
DRW.	DRAWER	PTD.	PAINTED		
DWG.	DRAWING	PR.	PAIR		
D.F.	DRINKING FOUNTAIN	PNL.	PANEL		
D.S.	DRY STANDPIPE	P.BD.	PARTICLE BOARD		
D.W.T.	DETECTABLE WARNING TILE	PTN.	PARTITION		
		PLAS.	PLASTIC		
E	EAST	P-LAM	PLASTIC LAMINATE		
EA.	EACH	PL.	PLATE		
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	P.T.C.	PLUMBING TRADES CONTRACTOR		
ELEC.	ELECTRICAL	PLYWD.	PLYWOOD		
E.T.C.	ELECTRICAL TRADES CONTRACTOR	P.S.I.	POUNDS PER SQUARE INCH		
E.W.C.	ELECTRICAL WATER COOLER	PC.	PRECAST		
E.P.	ELECTRICAL PANEL BOARD	PC.C.	PRECAST CONCRETE		
EL.	ELEVATION				
ELEV.	ELEVATION	Q.T.	QUARRY TILE		
ELVTR.	ELEVATOR	R.	RADIUS OR RISER		
ENCL.	ENCLOSURE	R.W.L.	RAIN WATER LEADER		
EMER.	EMERGENCY	RFRG.	REFRIGERATOR		
EP. PT.	EPOXY PAINT	RGTR.	REGISTER		
EP.F.	EPOXY FLOORING	REINF.	REINFORCED		
EQ.	EQUAL	REQ.	REQUIRED		
EQUIPMT.	EQUIPMENT	RES.	RESILIENT		
EXIST.	EXISTING	R.A.	RETURN AIR		
EXP.	EXPANSION	R.A.G.	RETURN AIR GRILLE		
EXP. JT.	EXPANSION JOINT	R.H.	RIGHT HAND		
EXPD.	EXPOSED	R.O.W.	RIGHT OF WAY		
EXTR.	EXTERIOR	R.D.	ROOF DRAIN		
		RM.	ROOM		
		R.O.	ROUGH OPENING		
		R.B.	RUBBER BASE		
F.O.C.	FACE OF CONCRETE	SECT.	SECTION		
F.O.F.	FACE OF FINISH	SK.	SINK		
F.O.S.	FACE OF STUD	SCHED.	SCHEDULE		
F.R.P.	FIBERGLASS REINFORCED PANEL	SHTG.	SHEATHING		
FIN.	FINISH OR FINISHED	SHT.	SHEET		
F.A.	FIRE ALARM	S.V.	SHEET VINYL		
F.E.	FIRE EXTINGUISHER	SHWR.	SHOWER		
F.E.C.	FIRE EXTINGUISHER CABINET	SIM.	SIMILAR		
F.H.C.	FIRE HOSE CABINET	S.C.	SEALED CONCRETE		
FIREP.	FIREPROOF	S.P.M.	SINGLE PLY MEMBRANE		
F.B.	FLAT BAR STOCK	S	SOUTH		
FL.	FLOOR	S.S.	SOLID SURFACE		
F.D.	FLOOR DRAIN	S.F.R.M.	SPRAY APPLIED FIRE RESISTIVE MATERIAL		
FLUOR.	FLUORESCENT	SPEC.	SPECIFICATION		
FT.	FOOT OR FEET	SQ.	SQUARE		
FTG.	FOOTING	ST. STL.	STAINLESS STEEL		
FDN.	FOUNDATION	STD.	STANDARD		
FRM.	FRAME	STA.	STATION		
FRMG.	FRAMING	STL.	STEEL		
F.S.	FULL SIZE	STOR.	STORAGE		
FURR.	FURRING	STRUCT.	STRUCTURE OR STRUCTURAL		
FUTR.	FUTURE	SUSP.	SUSPENDED		
F.W.	FABRIC WALLCOVERING	S.A.T.	SUSPENDED ACOUSTICAL TILE		
		SYM.	SYMMETRICAL		
GA.	GAUGE				
GALV.	GALVANIZED				
GEN.	GENERAL				
G.C.	GENERAL CONTRACTOR				
G.T.C.	GENERAL TRADES CONTRACTOR				
GL.	GLASS OR GLAZING				
GD.	GRADE				
GND.	GROUND				
GYP. BD.	GYPSUM BOARD				

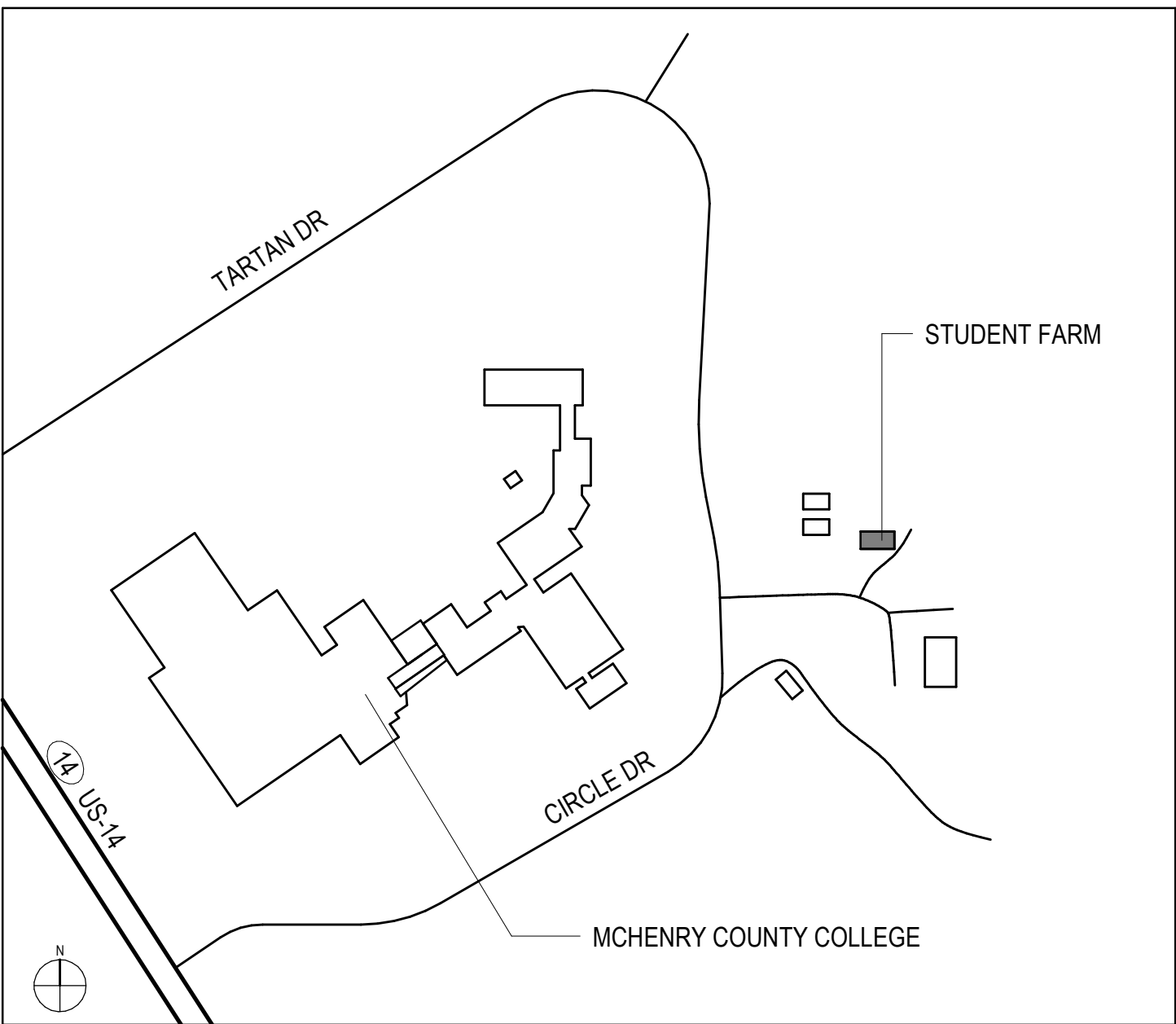
STATE LOCATION MAP



AREA MAP

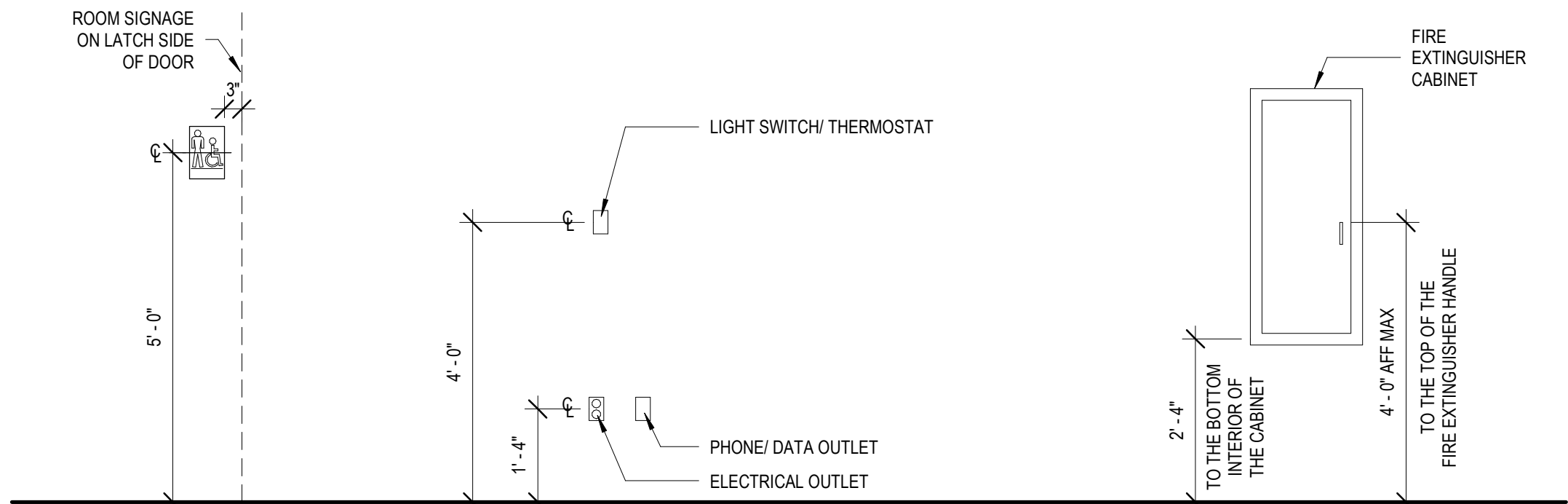


CAMPUS MAP



SHEET INDEX

GENERAL	SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES
G1.00	CODE PLAN
AC1.10	
CIVIL	
C-00	COVER SHEET
C-01	GENERAL NOTES, SPECIFICATIONS, & LEGEND
C-02	SITE DEMOLITION PLAN
C-03	SITE PLAN
C-04	UTILITY PLAN
C-05	EROSION CONTROL PLAN
C-06	EROSION CONTROL NOTES
C-07	STANDARD CONSTRUCTION DETAILS
C-08	STANDARD CONSTRUCTION DETAILS
C-09	STANDARD CONSTRUCTION DETAILS
ARCHITECTURAL	
AD1.10	DEMOLITION FLOOR PLAN & REFLECTED CEILING PLAN
AD4.00	DEMOLITION EXTERIOR ELEVATIONS
A1.10	FLOOR PLAN & REFLECTED CEILING PLAN
A4.00	EXTERIOR ELEVATIONS & BUILDING SECTIONS
AE.01	SECTIONS AND DETAILS
A10.00	DOOR SCHEDULE, ELEVATIONS, AND DETAILS
A11.01	FINISH PLAN
STRUCTURAL	
S0.00	GENERAL NOTES, TESTING AND INSPECTION, SYMBOLS AND ABBREVIATIONS
S1.00	FOUNDATION PLAN, ROOF FRAMING PLAN AND DETAILS
MECHANICAL	
M0.00	HVAC COVERSHEET
MD1.01	DEMOLITION FLOOR PLAN - HVAC
M1.01	FLOOR PLANS - PIPING & VENTILATION
M2.00	HVAC DETAILS
M2.01	HVAC DETAILS
M3.00	HVAC CONTROLS
M4.00	HVAC SCHEDULES
PLUMBING	
P0.00	PLUMBING COVERSHEET
PD1.01	DEMOLITION FLOOR PLANS - PLUMBING
P1.01	FLOOR PLANS - PLUMBING
P2.00	PLUMBING DETAILS
P3.00	PLUMBING MATERIAL LIST
FIRE PROTECTION	
F0.00	FIRE PROTECTION COVERSHEET
F1.01	FLOOR PLAN - FIRE PROTECTION
F2.00	FIRE PROTECTION DETAILS
F3.00	FIRE PROTECTION DIAGRAMS MATERIAL LIST
ELECTRICAL	
E0.00	ELECTRICAL COVERSHEET
ED0.01	ELECTRICAL SITE DEMOLITION
ED1.01	DEMOLITION FLOOR PLAN - ELECTRICAL
E0.01	ELECTRICAL SITE PLAN
E1.01	FLOOR PLAN - LIGHTING
E1.02	FLOOR PLAN - POWER & SYSTEMS
E2.00	ELECTRICAL DETAILS



NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.



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SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES

SHEET NUMBER:
G1.00

1 LEVEL 1 - CODE PLAN
1/4" = 1'-0"



CODE COMPLIANCE NOTES:

APPLICABLE CODES:

2021 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 NATIONAL ELECTRICAL CODE
2018 NFPA 101 LIFE SAFETY CODE
CURRENT EDITION, FIRE PREVENTION AND SAFETY CODE
CURRENT EDITION, ILLINOIS PLUMBING CODE
CURRENT EDITION (2018), ILLINOIS ACCESSIBILITY CODE
CURRENT EDITION (2021), ILLINOIS ENERGY CONSERVATION CODE

BUILDING AREA AND HEIGHT SUMMARY:

1. FIRST FLOOR (GROSS): 1,920 SF
2. BUILDING HEIGHT: 1 STORY, 16'-4"

OCCUPANCY CLASSIFICATION (IBC 508):

1. USE B: BUSINESS
EDUCATIONAL OCCUPANCY
FOOD PROCESSING / COMMERCIAL KITCHEN NOT ASSOCIATED W/ RESTAURANTS, UNDER 2500 SF

CONSTRUCTION TYPE (IBC 602): TYPE VB SPRINKLERED

1. NON-PROTECTED, WOOD FRAMED COMBUSTIBLE STRUCTURE (JOISTS/COLUMNS)
2. NON-RATED EXTERIOR WALLS

ALLOWABLE AREA (IBC 506) AND HEIGHT (IBC 504) CALCULATIONS:

USE GROUP B: BUSINESS, SPRINKLERED
MAX. BUILDING HEIGHT (IBC 504): 60 FT; 3 STORIES
MAX. BUILDING AREA: 36,000 SF

FIRE RESISTANCE RATINGS, TYPE VB CONSTRUCTION (IBC 601):

1. STRUCTURAL FRAME 0 HRS
2. EXTERIOR BEARING WALLS 0 HRS
3. INTERIOR BEARING WALLS 0 HRS
4. EXTERIOR NON-BEARING WALLS 0 HRS
5. INTERIOR NON-BEARING WALLS 0 HRS
6. FLOOR CONSTRUCTION 0 HRS
7. ROOF CONSTRUCTION 0 HRS

EXIT ACCESS TRAVEL DISTANCES, SPRINKLERED (IBC 1017):

1. USE B: 300 FT.

COMMON PATH OF EGRESS TRAVEL, SPRINKLERED (IBC 1006):

1. USE B: 100 FT.

DEAD-END CORRIDOR LENGTH, SPRINKLERED (IBC 1020.5):

1. USE B: 50 FT.
2. A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGTH WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.

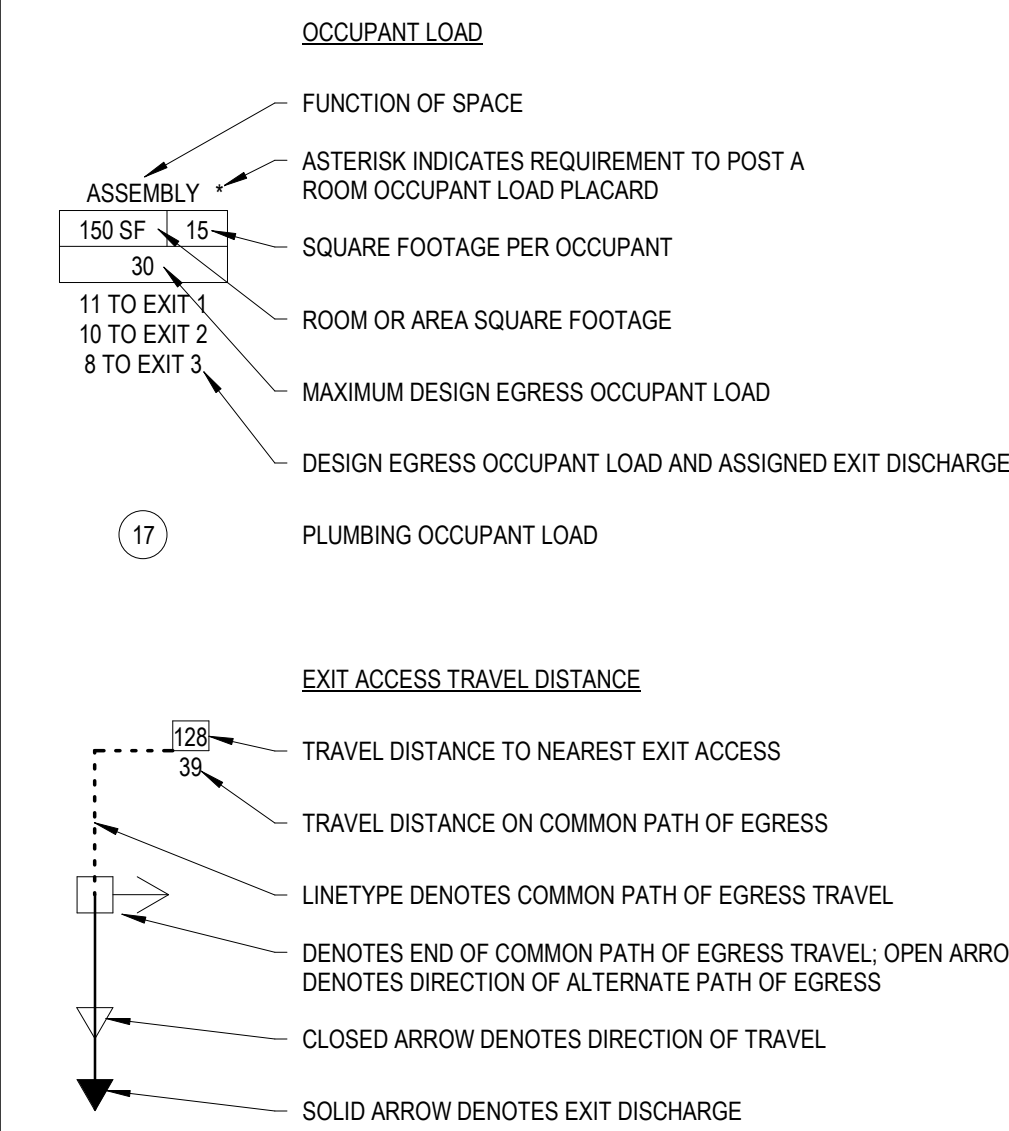
REVIEW 903.2.11

DUCTS CONVEYING HAZARDOUS EXHAUST PER 903.2.11.4 WITH EXCEPTION FOR 10" MAX CROSS-SECTIONAL DIAMETER, COMMERCIAL COOKING OPERATIONS PER 903.2.11.5 IF AUTOMATIC SPRINKLER SYSTEMS ARE USED

IECC 2018 CODE COMPLIANCE
EXISTING EXTERIOR ENVELOPE TO REMAIN. PER BUILDING TYPE / LOCATION, MIN. R-20 IS REQUIRED IN THE WALLS AND MIN. R-38 IS REQUIRED IN THE ATTIC SPACE. PER FIELD OBSERVATION AND EXISTING DRAWINGS AVAILABLE, R-38 INSULATION INSTALLED IN ATTIC AND CONTINUOUS SPRAYFOAM PROVIDED AT 6" EXTERIOR CAVITY WALL.

CODE COMPLIANCE PLAN SYMBOLS LEGEND:

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON FIRE ALARM SYSTEMS.
2. REFER TO FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION ON SPRINKLER SYSTEMS.



PLUMBING FIXTURE COUNT:

1. NUMBER OF OCCUPANTS, TOTAL: 11

2. NUMBER OF OCCUPANTS, PER SEX: 6

BUILDING TYPE: BUSINESS

FIXTURE TYPE	QUANTITY			
	REQUIRED		PROVIDED	
	WOMEN	MEN	WOMEN	MEN
LAVATORY	1	1	1	1
WATER CLOSET	1	1	1	1
URINAL	--	0*	--	0*
DRINKING FOUNTAIN		0		0
SERVICE SINK		1		1

* ILLINOIS PLUMBING CODE SECTION 800, APPENDIX A FOOTNOTE #2: URINALS MAY BE SUBSTITUTED FOR WATER CLOSETS FOR MALES (1), NOT TO EXCEED HALF OF THE REQUIRED TOTAL NUMBER OF WATER CLOSETS.



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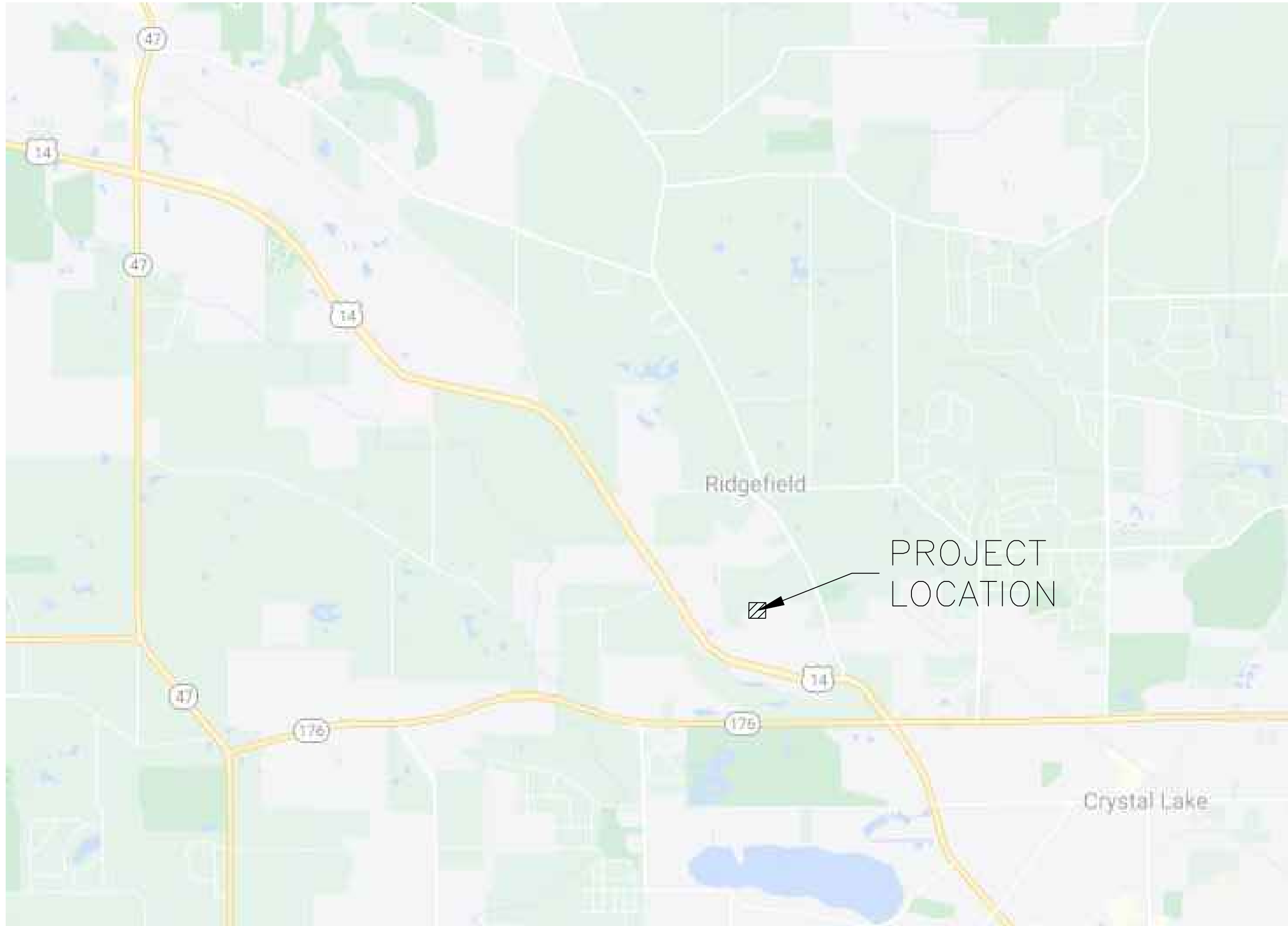
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4/21/2026 11:58:31 AM

MCHENRY COUNTY COLLEGE
STUDENT FARM RENOVATIONS
8900 US-14
CRYSTAL LAKE, ILLINOIS 60012
PARCEL # 13-25-300-021

LOCATION MAP



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C-00	COVER SHEET
C-01	GENERAL NOTES, SPECIFICATIONS & LEGEND
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SITE BENCHMARK NOTES:

- SOURCE BENCHMARK: BENCHMARK #4" PER AS SHOWN ON THE PLANS FOR "MCHENRY COUNTY COLLEGE NEW SCIENCE CENTER" DATED AUGUST 11, 2017, BEING A CUT SQUARE ON NORTH FACE OF LIGHT POLE BASE LOCATED IN THE MIDDLE CURB ISLAND LOCATED EAST OF PARKING LOT D, NORTH OF THE RING ROAD AND SOUTH OF BUILDING D.
 - ELEV = 921.24 (NAVD 88)
- SITE BENCHMARK (BM#1): NORTHWEST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 90 FEET WESTERLY OF THE ENTRANCE TO BUILDING E.
 - ELEV = 921.49 (NAVD 88)
- SITE BENCHMARK (BM#2): NORTHEAST ARROW BOLT ON THE FIRE HYDRANT LOCATED APPROXIMATELY 70 FEET NORTHEASTERLY OF THE ENTRANCE TO BUILDING B.
 - ELEV = 919.44 (NAVD 88)
- HR GREEN, INC. CONTROL DISCLAIMER: THE ATTACHED BENCHMARKS ARE FOR CONSTRUCTION PURPOSES ONLY. BY USING THE DATA PROVIDED HEREON, USERS ARE RESPONSIBLE FOR VERIFYING THE ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED IMPROVEMENTS BASED ON THE EXISTING EXTERIOR PROPERTY CORNERS AND SITE BENCHMARKS. HR GREEN, INC. ASSUMES NO RESPONSIBILITY FOR THE IMPROPER USE OF THE INFORMATION HEREIN PROVIDED.



CERTIFICATION

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.	
	JOSEPH F. VAVRINA, P.E. License Number: 062-058926 My license renewal date is December 31, 2027. Pages or sheets covered by this seal: ALL C SHEETS	04/21/2026 DATE



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SHEET TITLE:
COVER SHEET

SHEET NUMBER:

C-00

2/26/2026 11:33:40 AM



1391 CORPORATE DRIVE, SUITE 203 | McHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com

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Dial 811 or 1-800-892-0123

811

Know what's below.
Call before you dig.

CALL JULIE 1-800-892-0123

WITH THE FOLLOWING:
COUNTY: McHenry
CITY-TOWNSHIP: Crystal Lake - Dorr
SEC. & 1/4 SEC. NO. # SW 1/4 OF SEC-25-T-44N-7E

48 hours before you dig
(Excluding Sat., Sun. & Holidays)



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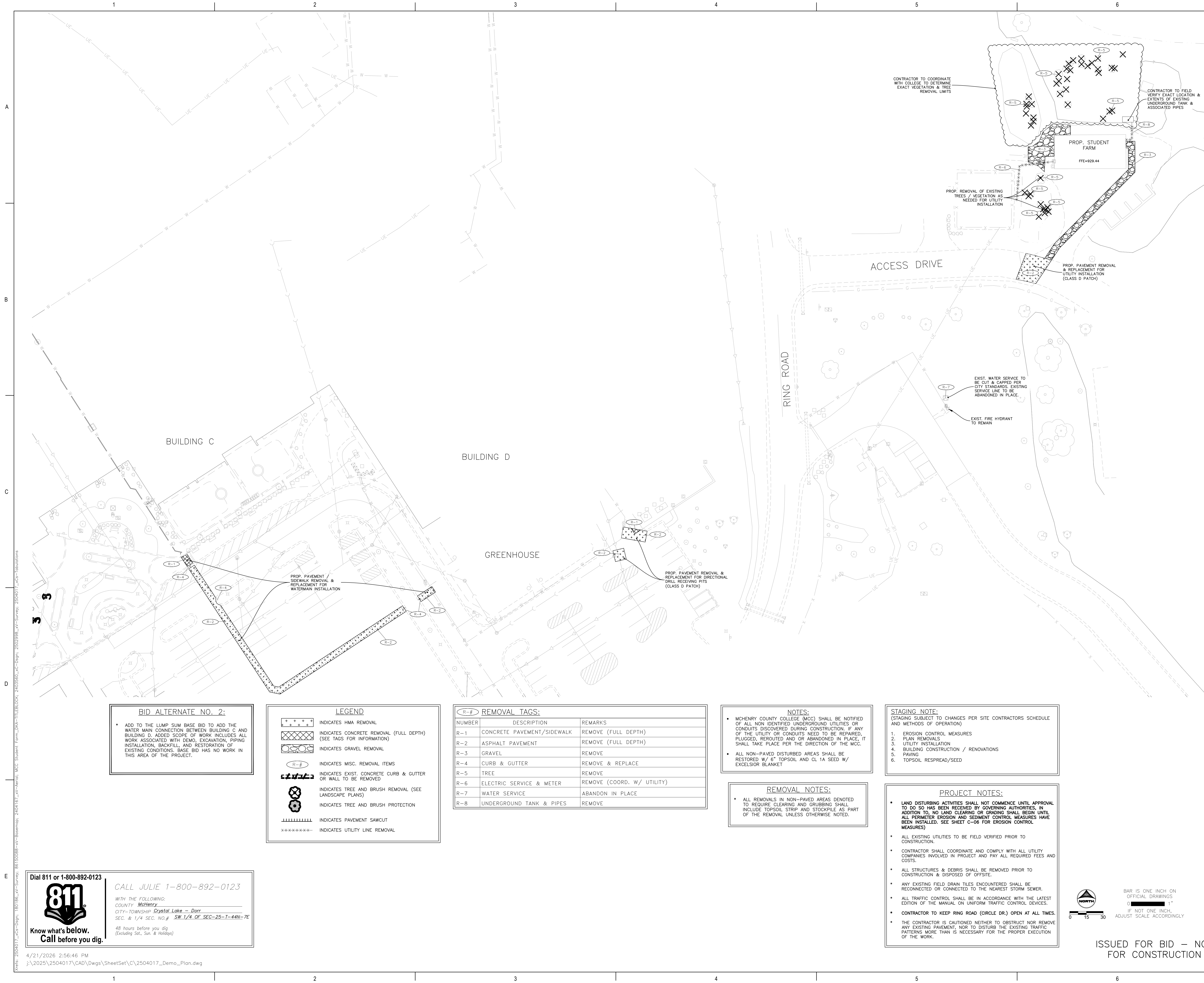
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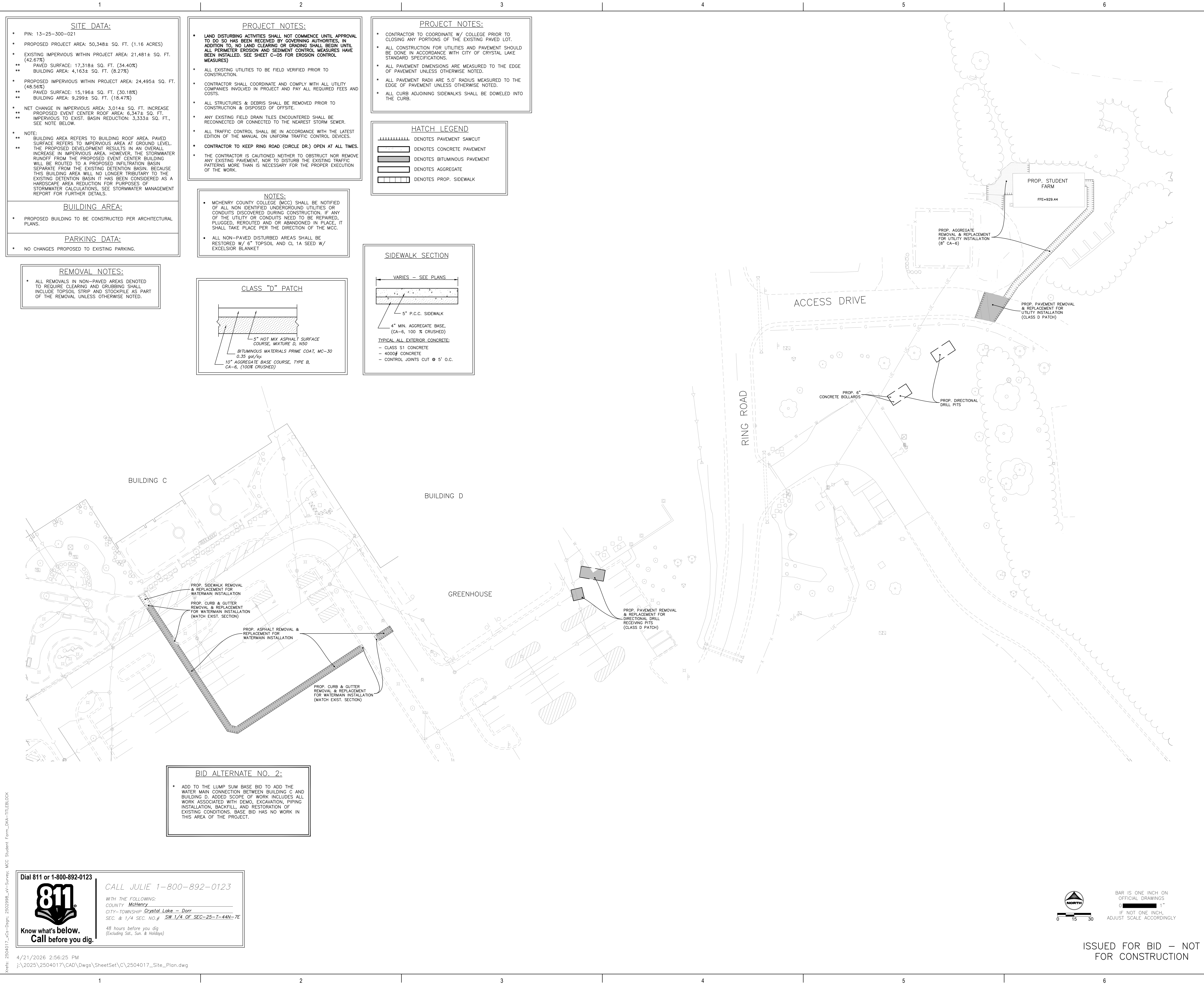
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SITE DEMOLITION PLAN

SHEET NUMBER:
C-02

2/26/2026 11:33:40 AM





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NEW VENTURE ADVISORS
2506 N. CLARK ST. #436
CHICAGO, IL, 60614
P: 773.245.3570

McHenry County College
Student Farm Renovations
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-03

2/26/2026 11:33:40 AM

Veris: 2504017_x03-Page: 2502998_xv-Survey: MCH-Student Farm_DKA-TITLEBLOCK

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WITH THE FOLLOWING:
COUNTY: McHenry
CITY-TOWNSHIP: Crystal Lake - Dorr
SEC. & 1/4 SEC. NO. # SW 1/4 OF SEC-25-T-44N-7E

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ARCHITECT:
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

S-MEP-PP-T ENGINEER:
IMEG CORP
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CIVIL ENGINEER:
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P: 815.385.1778

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McHenry County College

Student Farm Renovations

8900 Northwest Hwy #14, Crystal Lake, IL 60012

DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026

**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

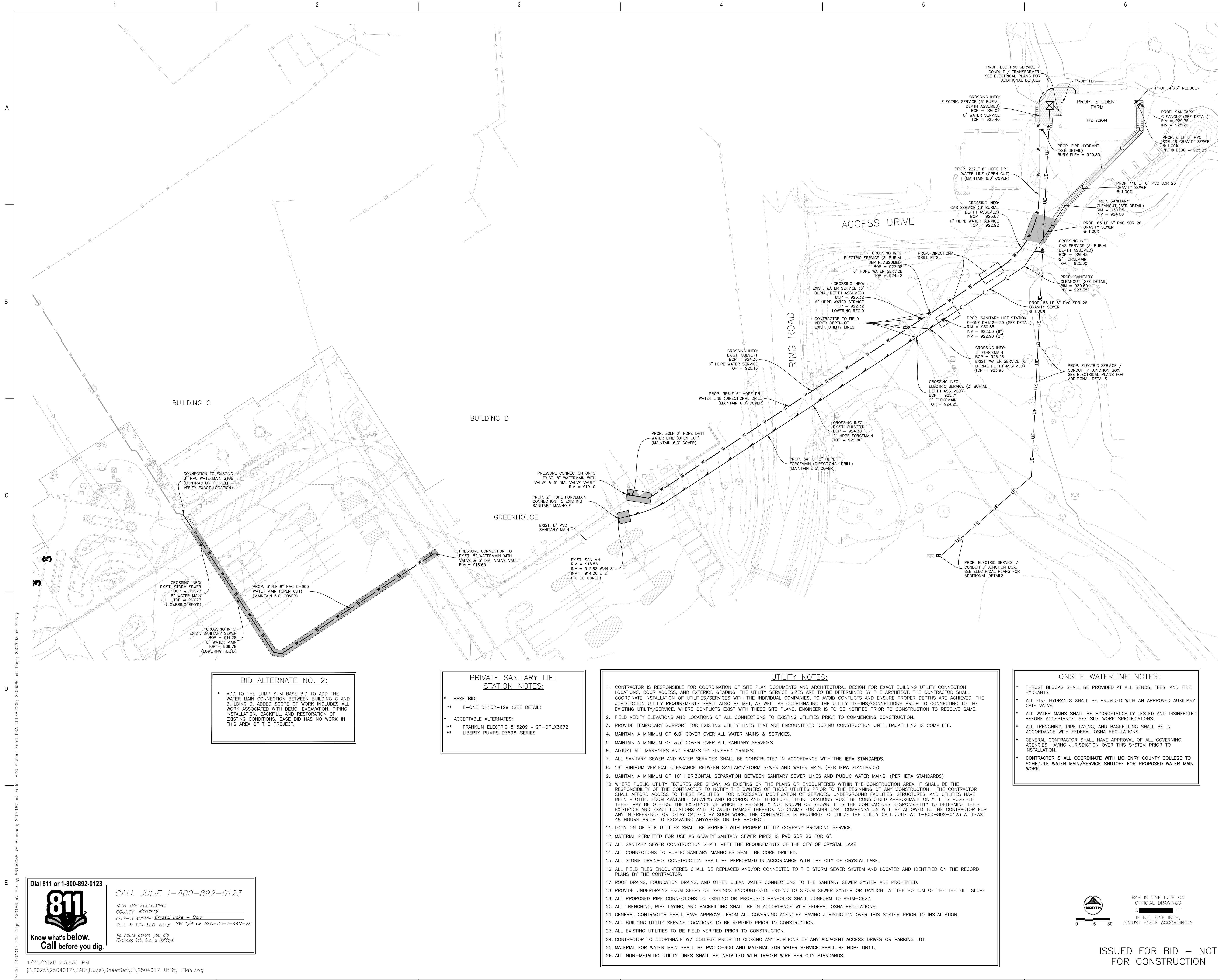
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SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:

C-04

2/26/2026 11:33:40 AM



Dial 811 or 1-800-892-0123

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COUNTY McHenry
CITY-TOWNSHIP Crystal Lake - Dorr
SEC. & 1/4 SEC. NO. # SW 1/4 OF SEC-25-T-44N-7E

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STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A, B, C, D			*	*					
SODDING												
TEMPORARY SEEDING			E				F					

A (1)	KENTUCKY BLUEGRASS 50 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 50 LBS/ACRE AND CREEPING RED FESCUE 20 LBS/ACRE	D (46)	ANNUAL RYE GRASS 250 LBS/ACRE OATS, SPRING 250 LBS/ACRE WETLAND GRASSES 6 LBS/ACRE
B (14)	BLUE GRASS 30 LBS/ACRE PERENNIAL RYEGRASS 10 LBS/ACRE DAWSON'S RED FESCUE 10 LBS/ACRE SCALDS HARD FESCUE 10 LBS/ACRE FULTS SALT GRASS 50 LBS/ACRE	E	SPRING OATS 100 LBS/ACRE
		F	WHEAT OR CEREAL RYE 150 LBS/ACRE.
		G	SOD
C (4)	ANDROPOGON GERMADI (BIG BLUE STEM) 4 LBS/ACRE ANDROPOGON SCARPANS (LITTLE BLUE STEM) 5 LBS/ACRE BOULEVARD CURPINDERIA (BIG OATS GRASS) 5 LBS/ACRE ELIUMS CANADENSIS (MILD RYE) 1 LBS/ACRE PANDOL VIRGATUM (SWITCH GRASS) 1 LBS/ACRE SORGHASTRUM NUTANS (INDIAN GRASS) 2 LBS/ACRE ANNUAL RYE GRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE PERENNIAL RYE GRASS 15 LBS/ACRE	H	ALFALFA/GOYBEANS 100-250 LBS/ACRE. (VERIFY WITH TOR)
		I	IRRIGATION NEEDED DURING JUNE AND JULY
		**	IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
		()	IDOT STANDARD

PHASING NOTES:

SEQUENCE OF MAJOR ACTIVITIES:

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor must be able to implement these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and measures will remain with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan sheet contained in this SWPPP for further details) to the Suggested Phasing Plan in the design drawings for construction sequencing):

- A. A pre-construction meeting shall be held by the **Site Project Manager** and the Operator's Engineer prior to land disturbing activities.
- B. Install perimeter silt fences and inlet protection in the locations shown on the Erosion Control plan sheets.
- C. Implement erosion control measures around the existing storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
- D. Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done in a sequential manner starting from the areas where building is planned to commence within 7 days after clearing and grubbing.
- E. Within 7 days of the site where Construction Activity has ceased for more than 7 days stop shall be temporarily sealed and watered.
- F. Commence construction.
- G. Construct gutter inlets, area inlets, storm sewer manholes and proposed storm sewer system. Implement erosion control measures around storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
- H. Finalize permanent subgrade preparation.
- I. Install base material and compact. Storm sewer manholes no more than 48 hours prior to placing stabilized base course.
- J. Install base material required for pavement.
- M. Carry out final grading and seeding, sodding and planting, including rolled erosion control products where shown on the Erosion Control plan sheets.
- N. Remove silt fencing only after all paving is complete and exposed surfaces are stabilized.

- (i) Appropriate temporary or permanent stabilization measures shall include seeding, mulching, sodding, and/or non-vegetative measures.
- (ii) Areas having slopes greater than 12 percent shall be stabilized with sod, mat, or blanket in combination with seeding or equivalent.

Soil storage piles containing more than 10 cu. yds. of material shall not be located with a down-slope drainage length less than 25 feet to a roadway or drainage channel. Filter barriers, including straw bales, filter fence, or equivalent, shall be installed immediately on the down slope of the piles.

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KEY PLAN:

SHEET STATUS: 04/21/2026

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FOR CONSTRUCTION**

NO.	DESCRIPTION:	DATE:
E		

2/26/2026 11:33:40 AM

A

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D

E

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GENERAL SITE-WORK		GRADING	
1. Pre-Construction meeting shall be conducted with City Staff and all Contractors prior to commencing any grading or underground utility construction activities (schedule meeting with the Community Development Department at 915-556-3605).		1. The grading and construction of the site improvements shall not cause ponding of storm sewer water. All areas adjacent to these improvements shall be graded to allow positive drainage.	
2. 24-hour Emergency contact numbers shall be provided to City Staff at the Pre-Construction meeting.		2. The proposed grading elevations shown on the plans are finished grade. A minimum of six (6) inches of topsoil is to be placed before finished grade elevations are achieved.	
3. Working hours shall be limited to the hours of 7:00 a.m. and 7:00 p.m. on weekdays only (except in cases of emergency). Non-emergency work on weekends or holidays is not permitted per City Code except under written permission from the City Engineer. The owner is responsible for the City Inspector cost of overtime inspection beyond the normal eight (8) hour day, including weekends and holidays.		3. Embankment material within parkway and open space areas shall be compacted to a minimum of thirty percent (30%) of maximum density. In accordance with ASTM Specification D-1557 (modified proctor method), or to such other density as may be determined appropriate by the soils engineer.	
4. Public/private streets shall be kept free of dirt and debris with regular cleaning, sweeping, and scraping conducted by the Contractor. Junk and debris shall not be allowed to accumulate, blow, or scatter onto streets or adjacent properties.		4. All subgrade material shall have a minimum CBR (California Bearing Ratio) of 3.0 as determined by the soils engineer, or base replacement and pavement design revisions shall be provided which are adequate to obtain equivalent pavement strength.	
5. JULULE shall be contacted for utility locations on-site and in the adjacent right-of-way.		5. Proposed pavement areas, building pads, driveways and sidewalks and yard/open space areas shall be excavated or filled to plus or minus 0.1 foot of design subgrade elevations by the Contractor.	
6. Contractor shall provide and maintain fencing, barricades, traffic control signs, and other safeguarding measures during the course of all work to protect the public from the construction operations.		6. Any borrow pit locations shall be identified by the Contractor on a copy of the approved site plans and forwarded to the Engineering Division at least 24-hours prior to excavation. Provide backfill completion reports from a geotechnical engineer and as-built plans to the Engineering Division for any borrow pit area.	
7. Maintain access to adjacent streets during construction. No closing of streets unless approval is first obtained from the agency with jurisdiction (City of Crystal Lake, McHenry County Department of Transportation, Illinois Department of Transportation, etc.).		7. Backfill shall be monitored by a geotechnical engineer on-site with compaction reports forwarded to the Engineering Division for review.	
8. Any damage to public light-sidewalk, public utilities, streets, curb, etc. shall be repaired/replaced as soon as possible and as directed by the City Engineer.		8. Water truck shall be on-site at all times during mass-grading operations and be available as needed for the purposes of dust control or at the request of City Staff.	
9. The Contractor shall give the City of Crystal Lake, Illinois Department of Transportation, and any other governmental agency having jurisdiction, at least two (2) working days notice excluding Saturday and Sunday prior to the initiation of any phase of construction. Contractor shall immediately notify if construction has ceased and renew the two (2) working day notification thereafter.		9. Use of City fire hydrants is not allowed unless approved (separate from this permit) by the Public Works Department and a hydrant meter and RPZ is obtained from the City of Crystal Lake Water Division (915-526-3014). Only the City of Crystal Lake Water Division may operate valves and hydrants.	
10. The Contractor shall be responsible for obtaining all required permits for construction prior to commencement along or across existing streets or highways. The Contractor shall make arrangements for the proper bracing, shoring and other protection of all roadways before construction begins.			

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		GE-02a	
2.		Date: 01/30/15	
3.		Drawn DD	Checked AW
4.			

STANDARD NOTES AND SPECIFICATIONS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

TOPSOIL STOCKPILING:		EROSION CONTROL:	
1. Location of any on-site topsoil stockpiles shall be identified on the approved plans with all fences installed around the perimeter of the stockpile.		1. All specified erosion control measures shall be installed and maintained per the requirements of the Crystal Lake Stormwater Ordinance in accordance with the active NPDES permit.	
2. Topsoil stockpiled for future use shall be relatively free from large roots, sticks, weeds, brush, stones larger than one (1) inch diameter, or other litter and waste products including other extraneous materials not conducive to plant growth.		2. All slopes 4:1 or steeper shall be sodded or blanketed immediately after mass earthwork.	
3. Topsoil shall be stockpiled in sequence to eliminate any re-handling or double movements by the Contractor. Failure to properly sequence the stockpiling operations shall not constitute a claim for additional compensation. No material shall be stockpiled in front yards, in utility easements, or in the right-of-way lines.		3. Erosion control measures to be inspected and approved by City Engineering Division prior to additional work on site.	
4. If a stockpile is to remain in place for more than (14) calendar days, it is required that the stockpile meet the requirements as outlined in section 565 of the City Code.		4. Continuous monitoring of erosion control measures is required. Maintain records of weekly reports per the City of Crystal Lake Stormwater Ordinance.	
		5. The Contractor shall implement any additional erosion control measures deemed necessary by the City per the standards of the City of Crystal Lake Stormwater Ordinance.	
		6. All storm sewer catch basins, sumps and/or retention basins provided are to be cleaned at the end of construction of the project prior to final acceptance. Cleaning may also be required during the course of the construction if it is determined that the silt and debris traps are not properly functioning and their performance is impaired.	
		7. Rip-rap material R2 (6") - R24 (18") shall be in accordance with Article 281	
		8. Projects of 1 Acre or greater must obtain an NPDES permit prior to commencement of any construction activity.	

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		GE-02b	
2. 02/25/2020		Date: 01/30/15	
3.		Drawn DD	Checked AW
4.			

STANDARD NOTES AND SPECIFICATIONS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

SANITARY SEWER:			
1. Non-shear stainless steel couplings shall be used when connecting sewer pipes of dissimilar materials and pipes with no hub joints. When connecting to an existing sanitary sewer by means other than an existing wye or manhole, contractor shall use a Sewer-Top and hub-wye or hub-tee saddle.		11. The Contractor shall provide the necessary tools and equipment and perform the work necessary to test the deflection in the initial 1200 feet of installed sewer and not less than ten percent (10%) of the remainder of the sewer project at random locations selected by the engineers no sooner than 30 days after backfilling has been completed. In the event that deflection exceeds the maximum limit of five percent (5%), the Contractor shall test all other new flexible pipe for deflection. Deflection shall be tested by use of either a manual or rigid ball having a diameter equal to ninety-five percent (95%) of the inside diameter of the pipe, and the test shall be performed without using mechanical pulling devices. Whenever the deflection limitation is exceeded, the contractor shall uncover the pipe, carefully replace compacted embankment and backfill material, and retest for deflection.	
2. Unless an alternate method is approved, water stop gaskets shall be provided at all sanitary sewer manhole connections. Type and manufacturer to be approved by the City.		12. The Contractor shall subject all sanitary sewers, including service lines, to an air test. Air testing shall be performed in accordance with the latest Standard Specifications for Water and Sewer.	
3. PVC plastic sewer pipe and fittings of sizes 4-inch through 15-inch shall conform to the latest revised specification requirements of ASTM D2238 for type F200 polyvinyl chloride (PVC) sewer pipe and fittings of minimum wall thickness SDR 26.		13. The Contractor shall subject all newly constructed sanitary manholes to the Negative Pressure (Vacuum) Test in accordance with ASTM C 1244. The Contractor shall also observe all public sanitary sewers. Testing of sanitary sewer cost for testing, and testing shall be the responsibility of the Contractor.	
4. Joints shall be either the solvent weld type conforming to the latest revised specification requirements of ASTM D2254 and ASTM D2255, or elastomeric gasket type conforming to the latest revised specification requirements of ASTM D1189 and ASTM D3212.		14. Cast Iron Soil Pipe service weight cast iron soil pipe and fittings conforming C.I.S.P.I. Specification HS-67 with compression type rubber gasket joints conforming to ASTM specification C584, or other suitable materials approved by the City Engineer.	
5. A braked welded pipe such as SDR 18 may be specified by the engineer depending on design and/or field conditions.			
6. PVC plastic sewer pipe and fittings of sizes 18-inch through 36-inch shall conform to the latest revised specification requirements of ASTM F479 or polyvinyl chloride (PVC) large diameter ribbed gravity sewer pipe and fittings, with integral bell gasketed joints and elastomeric gaskets to form a watertight seal conforming to the latest revised specification requirements of ASTM F477 or ASTM D3212.			
7. Pipe and fittings shall be the products of one approved manufacturer only, and there shall not be any mixing of pipe and fittings of different manufacturers between manholes.			
8. The handling and installation of pipe, assembly or joints, and manhole connections shall be in accordance with the manufacturer's recommendations.			
9. Gasket-type watertight collars consist of a neoprene collar and a stainless steel band or other approved manhole watertight seal shall be installed whenever the pipe passes through the manhole walls to provide a watertight joint to prohibit infiltration into the sewer system.			
10. PVC pipe shall be installed in accordance with the latest revised specification requirements of ASTM D2237 using either compacted class II or class III granular embankment materials for bedding, haunching and initial backfill of 12 inches over the top of pipe to provide the necessary support for the pipe so that the maximum deflection does not exceed five percent of the pipe's original internal diameter.			

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		GE-02c	
2. 01/25/2021 KL Vacuum Test Note 13		Date: 01/30/15	
3.		Drawn DD	Checked AW
4.			

STANDARD NOTES AND SPECIFICATIONS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

WATER MAIN:		PAVING:	
1. Water main shall be Ductile Iron. a) Ductile Iron water main shall be Class 52 conforming to ANSI/AWWA C151/A21.51-03. b) Ductile Iron fittings shall conform to ANSI/AWWA C153/A21.53 with mechanical joint gaskets.		1. All subgrades and bases shall be pre-approved and approved by the Engineering Division prior to base or drain installation.	
2. All belted connections shall be required to the manufacturer's specification. The Contractor shall verify the manufacturer's specification with an approved torque wrench.		2. Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus of plan elevation.	
3. Thrust blocking or Mega-Lugs with Mega-Bond coating or pre-approved equal shall be installed on water mains at all bends, tees, elbows, etc. except as noted below.		3. The Paving Contractor shall ensure that the subgrade has been properly prepared and that the finished top of subgrade elevation has been graded within the tolerances allowed in these specifications. Unless the Paving Contractor advises the owner and engineer in writing prior to the grading for base course construction, it is understood that the Contractor has approved and accepts responsibility for the subgrade.	
4. Thrust blocks not permitted with 45 degree vertical bends in water main shall be restrained with Mega-Lug or pre-approved equal.		4. For the purpose of providing handicap accessibility and complying with the American Disability Act and City Standards, curbs shall be depressed at locations where public walks or pedestrian paths intersect curb lines at street intersections and other locations as directed.	
5. Ductile Iron pipe shall be encased in polyethylene and shall conform with ANSI/AWWA C105/A21.10 - 10 and ASTM A674-10.		5. 1/4 inch thick premodulated fiber expansion joints with two (2) No. 4 plain round steel dowel bars shall be installed at designated intervals and at all T, C, P, T, curb returns and at the end of each pour. Alternate ends of the dowel bars shall be grouted and fitted with metal expansion tubes.	
6. Minimum cover from finished grade to top of water main shall be six (6) feet. Maximum cover shall be eight (8) feet.		6. 1/4 inch thick fiber expansion joints shall be used in every case where the sidewalk coincides with the curb and gutter. Contradiction joints shall be saw cut at designated intervals in the curb. The cost of these joints shall be considered as incidental to the cost of the contract.	
7. Water Main Taps: An Illinois licensed plumber is required for any water main tap.		7. All poured in place concrete curb and gutter shall incorporate two (2) No. 4 reinforcing bars installed wherever the curb and gutter crosses utility service lines. The cost of which shall be considered incidental to the cost of concrete curb and gutter.	
8. All water mains shall be subjected to a 2 hour pressure and leakage test by the Contractor in accordance with City Detail UW-49A and UW-49B. Water mains shall be chlorinated in accordance with City Detail UW-49A.		8. Sidewalks (where required) shall be of the thickness and dimensions as shown in the construction plans. All sidewalk concrete shall be a minimum of 6.1 bag mix (or IDOT class D3 concrete) and shall develop a minimum of 3,500 psi compressive strength at fourteen (14) days. Contradiction joints shall be set at five (5) foot centers, and one-half inch (1/2) inch premodulated fiber expansion joints at fifty (50) foot centers and where the sidewalk meets the curb or another sidewalk, or at the end of each pour. All sidewalks constructed over utility trenches and/or stubble/drainage areas shall be reinforced with three (3) No. 4 reinforcing bars (10 foot minimum length).	
9. The Underground Contractor shall consider incidental to the contract any chlorination and testing of existing water main where connections to and condition of such mains is indicated on the drawing.			
10. For repairs to existing PVC watermain, see details UW-12 and UW-13			

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		GE-02d	
2. KL 01/25/2021 Torque Specification		Date: 01/30/15	
3. 02/06/2023 JRG - Update Water Main Note 8		Drawn DD	Checked AW
4. 07/14/2023 JRG - Update Water Main Notes 1, 5, 10			

STANDARD NOTES AND SPECIFICATIONS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

COMMON WATER/SANITARY SERVICE TRENCH	
1. THE WATER SERVICE PIPING AND BUILDING SEWER PIPING MAY BE INSTALLED IN A COMMON TRENCH PROVIDED THAT THE WATER SERVICE PIPE IS PLACED ON A SHELVE A MINIMUM OF EIGHTEEN (18) INCHES ABOVE AND TWENTY-FOUR (24) INCHES HORIZONTALLY FROM THE BUILDING SEWER PIPING. SUCH INSTALLATION SHALL USE SEWER MATERIAL AS SPECIFIED IN THE CITY CODE FOR A BUILDING DRAIN.	
2. TRENCH BACKFILL (CA-6 GRADE NO.3 STONE) WITHIN 2' OF PAVEMENT, SIGNAL, DRIVEWAY OR CURB. BACKFILL WITH SUITABLE EXCAVATED MATERIAL IN NON-STRUCTURAL AREAS.	
3. PIPE BEDDING, AS REQUIRED, PER CITY TYPICAL TRENCH CROSS-SECTION DETAIL (UG-03)	

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		UG-02	
2.		Date: 04/15/2007	
3.		Drawn DD	Checked LZ
4.			

COMMON WATER/SANITARY SERVICE TRENCH

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

TYPICAL TRENCH CROSS SECTION	
1. TRENCH BACKFILL TO SUBGRADE AND WITHIN 2 FEET OF PROPOSED PAVEMENT, DRIVEWAY, CURB AND GUTTER OR SIDEWALK. TRENCH BACKFILL MATERIALS SHALL BE DOT APPROVED GRAVATION CA-6, GRADE 1 & 3, OR 9 COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. IN NON-STRUCTURAL AREAS BACKFILL WITH APPROVED EXCAVATED MATERIALS.	
2. PIPE BEDDING SHALL BE WASHED MATERIAL DOT GRAVATION CA-7 OR CA-11 FROM 4 INCHES BELOW BOTTOM OF PIPE TO HEIGHT SHOWN ON EACH SECTION	
3. UNSUITABLE MATERIAL, TO BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH COMPACTED SUITABLE MATERIAL.	
4. TRENCH WIDTH: PIPE O.D. + 12 INCHES MINIMUM PIPE I.D. + 18 INCHES MAXIMUM	
5. CONTRACTORS SHALL COMPLY WITH ALL CURRENT OSHA STANDARDS.	

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		UG-03	
2. 02/04/2021 KL CA-7 WASHED STONE		Date: 05/29/2015	
3. 07/14/2023 JRG PVC ALLOWED ONLY AS STATED		Drawn JH	Checked AW
4. 03/14/2024 JRG UPDATED CROSS SECTIONS			

TYPICAL TRENCH CROSS SECTION

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

PROPOSED SEWER LINE ABOVE EXISTING WATER MAIN WITH 18" MINIMUM SEPARATION.		PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.	
SEE NOTE 2 SEE NOTE 5 MINIMUM OR CASING (SEE NOTE 3b) SEE NOTE 1 EXISTING WATER MAIN		SEE NOTE 2 SEE NOTE 5 MINIMUM OR CASING (SEE NOTE 3b) SEE NOTE 1 EXISTING SEWER LINE	
NOTES 1. IF THE SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF THE WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT OVER LENGTH "L". 3a. CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST. OR 3b. USE CASING LENGTH "L" FOR PROPOSED SEWER AND SEAL ENDS OF CASING. SEE UW-14 FOR CASING DETAILS. 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN. 5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.		NOTES 1. IF THE SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER THE TOP OF THE WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT OVER LENGTH "L". 3. USE A CASING PIPE FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING. SEE UW-14 FOR CASING DETAILS. 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN. 5. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT OF WATER MAIN TRENCH.	
ADDITIONAL NOTES: "THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY OUTER DIAMETER = OD			

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		UG-04a	
2. 8/18/2023 JRG - SEWER AND WATER 2014 UPDATE		Date: 04/15/2007	
3.		Drawn EM	Checked AW
4.			

WATER AND SEWER SEPARATION REQUIREMENTS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION		PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" SEPARATION	
SEE NOTE 3 EXISTING SEWER LINE 10" SEWER OD 10" 18" MIN. OR CASING (SEE NOTE 2b) PROPOSED WATER MAIN		SEE NOTE 4 EXISTING WATER MAIN 10" WATER MAIN OD 10" LESS THAN 18" OR CASING (SEE NOTE 2b) PROPOSED SEWER MAIN (SEE NOTE 2a)	
NOTES 1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER THE TOP OF PROPOSED WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT OVER LENGTH "L". 2. IF THE SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT. 4. USE A CASING PIPE LENGTH "L" FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING. SEE UW-14 FOR CASING DETAILS.		NOTES 1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PROPOSED SEWER LINE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT OVER LENGTH "L". 2a. CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST. OR 2b. CONSTRUCT "L" FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING. SEE UW-14 FOR CASING DETAILS OR 3. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN. 4. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.	
ADDITIONAL NOTES: "THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (SEE PAGES 165-173) CLASS IV MATERIALS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY. OD = OUTSIDE DIAMETER			

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		UG-04b	
2. 8/30/2021 KL - SEWER AND WATER 2014 UPDATE		Date: 04/15/2007	
3.		Drawn EM	Checked AW
4.			

WATER AND SEWER SEPARATION REQUIREMENTS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

WATER AND SEWER SEPARATION REQUIREMENTS	
PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MIN. SEPARATION	PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM SEPARATION
EXISTING SEWER LINE LESS THAN 18" PROPOSED WATER MAIN	EXISTING WATER MAIN 18" MINIMUM PROPOSED SEWER MAIN
NOT ALLOWED: MUST MAINTAIN 18" VERTICAL SEPARATION	NOTES 1. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
ADDITIONAL NOTES: "THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (SEE PAGES 165-173)	

Revised:	Drawing Name	Drawing Number	
1. 06/12/2015		UG-04c	
2. 8/18/2023 JRG - SEWER AND WATER 2014 UPDATE		Date: 04/15/2007	
3.		Drawn EM	Checked AW
4.			

WATER AND SEWER SEPARATION REQUIREMENTS

ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS



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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
STANDARD CONSTRUCTIONS DETAILS

SHEET NUMBER:

C-07

ISSUED FOR BID - NOT FOR CONSTRUCTION

2/26/2026 11:33:40 AM



BEARING AREA (SQ. FT.)					
PIPE SIZE	TEE/PLUG	90°	45°	21 1/2°	11 1/4°
6	4	2	1	1	1
8	6	4	3	1	1
10	7	5	3	1	1
12	8	6	4	2	2
14	12	9	6	3	3
16	15	12	7	3	3
18	18	15	9	4	4
24	40	30	15	5	5

NOTES:

ALL BLOCKING SHALL BE POURED CLASS SI CONCRETE AGAINST UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN OR EQUAL TO 11 1/4" SHALL HAVE THRUST BLOCKING, FORM AS TO NOT COVER BOLTS.

IN LIEU OF THRUST BLOCKING, "MEGA LUG" (EBA) JOINT RESTRAINTS OR APPROVED EQUAL CAN BE USED AS APPROVED BY THE ENGINEER.

Revised:

1. 06/12/2015
- 2.
- 3.
- 4.

Drawing Name

THRUST BLOCK
INSTALLATION

Drawing Number

UW-03

Date: 05/29/2015

Drawn: JH Checked: VVR

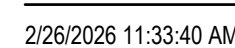
City of
Crystal Lake
ILLINOIS

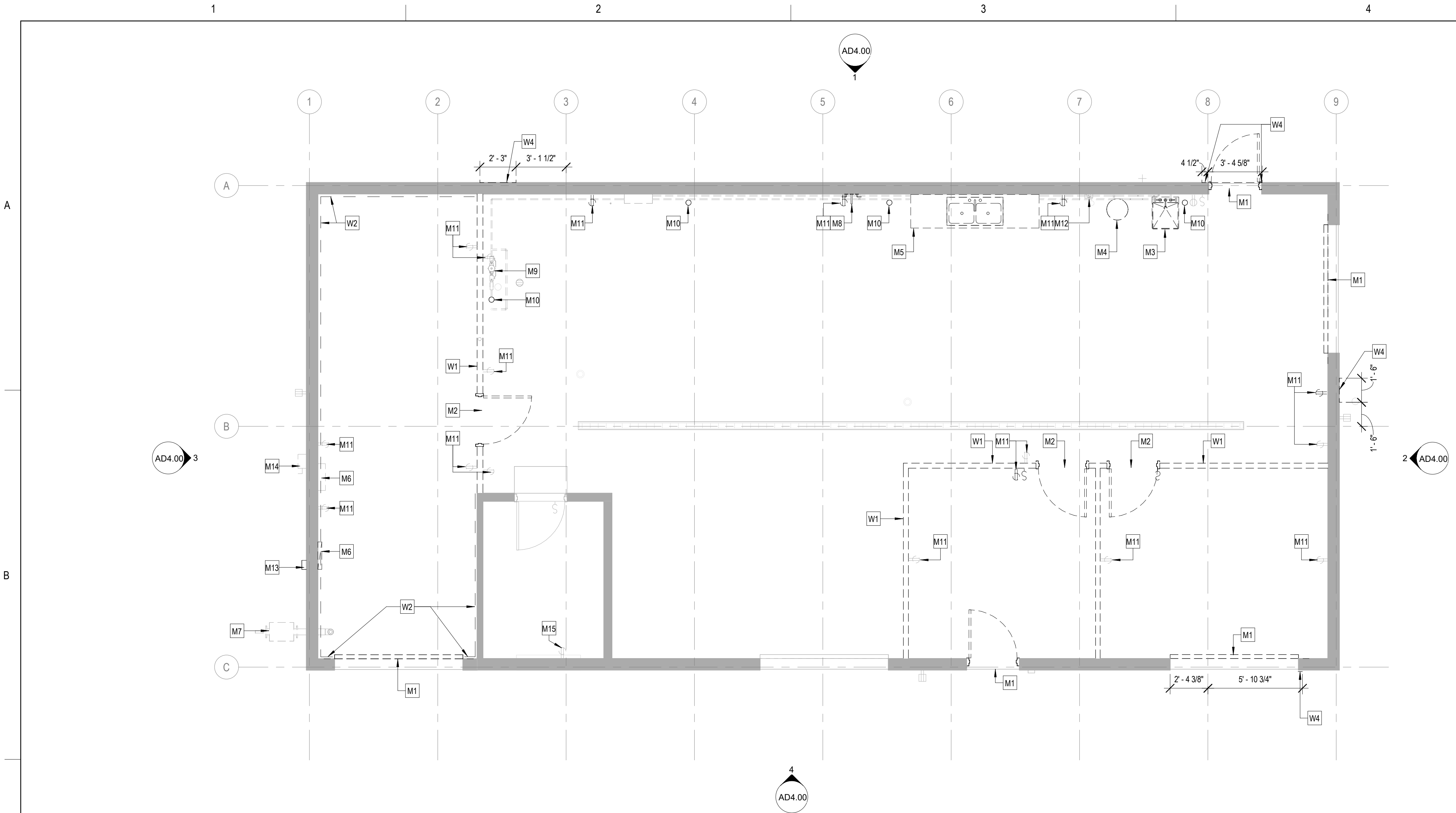
L:\ENGINEERING\BIDDING\ENGINEERING\UTS\A AND STANDARDS

[illegible]

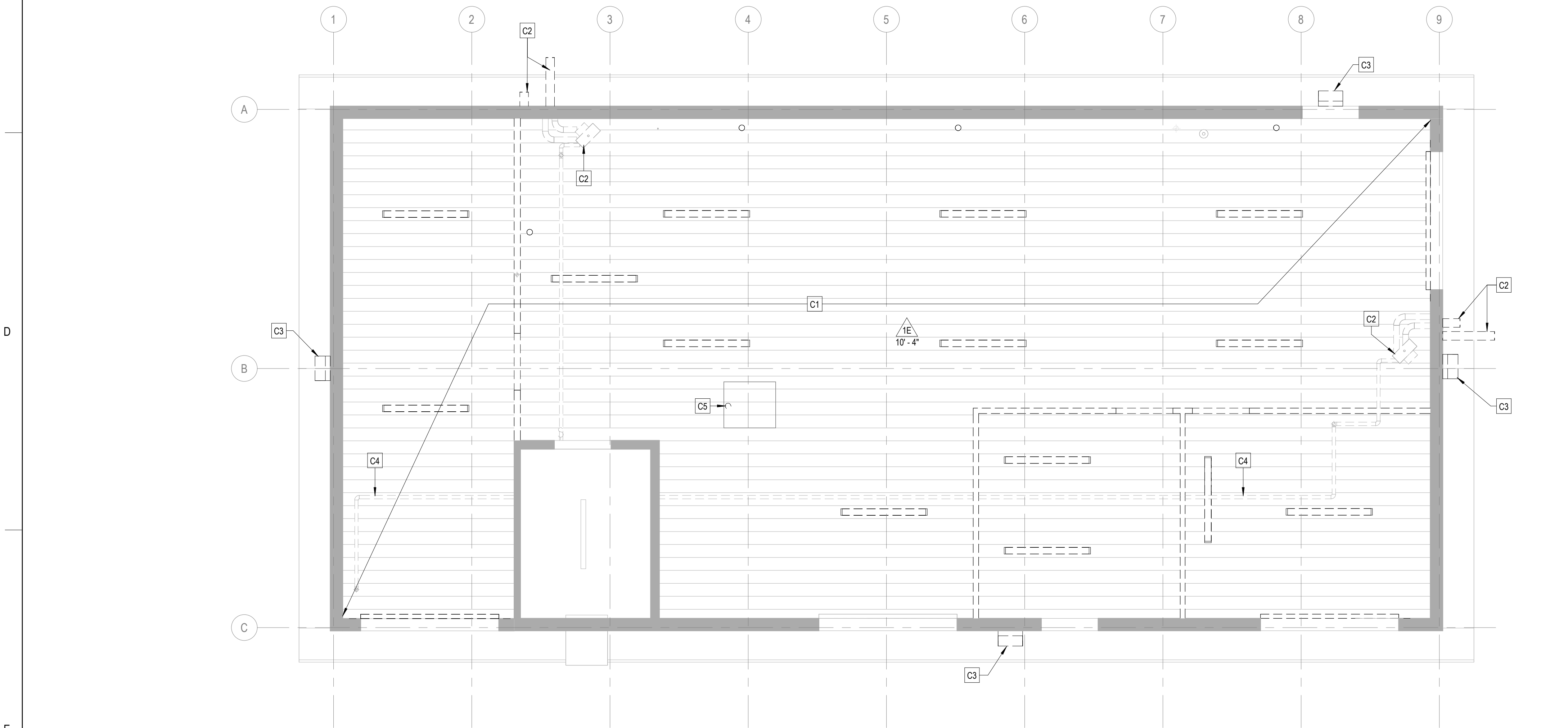
C-08

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1 LEVEL 1 - DEMO FLOOR PLAN
1/4" = 1'-0"



2 LEVEL 1 - DEMO REFLECTED CEILING PLAN
1/4" = 1'-0"



DEMO GENERAL NOTES:

1. REFER TO ME/P/PP/T DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.
2. DURING THE BID PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE PROJECT TO REVIEW EXISTING CONDITIONS, CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE NATURE OF EXISTING CONDITIONS AND THE WORK THEREBY INVOLVED SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
3. CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY DURING THE ENTIRE PROJECT DURATION.
4. PROVIDE ALL DEMOLITION, TEMPORARY REMOVAL, AND REINSTALLATION AND REPAIR REQUIRED TO INSTALL NEW WORK.
5. REMOVE ALL ME/P/PP/T EQUIPMENT, DEVICES, AND FIXTURES, INCLUDING EQUIPMENT PADS, WIRING, CONDUIT, PIPING, AND RELATED APPURTENANCES, ABANDONED THROUGH DEMOLITION. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT AS CLOSE AS POSSIBLE TO ADJOINING SURFACES. FILL FLOOR Voids.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED.
7. REPAIR EXISTING FLOORS, WALLS, AND CEILINGS WHERE AFFECTED BY DEMOLITION, MATCH EXISTING ADJACENT CONDITIONS.
8. INFILL OPENINGS CREATED BY DEMOLITION, PROVIDE A SEAMLESS TRANSITION TO EXISTING KEY NEW MASONRY INTO EXISTING USING WHOLE UNITS.
9. WHERE CEILINGS ARE SHOWN TO BE DEMOLISHED, REMOVE CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
10. WHERE ACOUSTICAL PANELS, CEILING SYSTEMS ARE SHOWN TO BE DEMOLISHED, CONTRACTOR SHALL SALVAGE ALL TILES AS EXTRA STOCK FOR OWNER UNLESS NOTED OTHERWISE. SALVAGE ONLY UN-CUT TILES WITH NO VISIBLE DAMAGE. OWNER WILL REVIEW TILES PRIOR TO STORAGE.

DEMO RCP SYMBOLS LEGEND:

- NOTES:
1. GRAYTONE LINEWORK DENOTES EXISTING CONSTRUCTION TO REMAIN.
 2. REFER TO ME/P/PP/T DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.

ROOM NAME	ROOM NAME AND NUMBER
	X-X'
	CEILING TYPE AND ELEVATION A.F.F.

EXIST. TO REMAIN	REMOVE	DESCRIPTION
		GYPSUM BOARD OR PLASTER ON METAL- OR WOOD-FRAMED PARTITION
		GYPSUM BOARD OR PLASTER CEILING SYSTEM
		LINEAR LIGHT FIXTURE - SEE ELECTRICAL
		FRAME AND DOOR, SALVAGE ALL DEMOLISHED HARDWARE TO OWNER

DEMOLITION FLOOR PLAN REFERENCED NOTES:

REFER TO ME/P/PP/T DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.

WALL DEMOLITION KEYED NOTES

- W1. REMOVE EXISTING WALL. PATCH AND REPAIR ADJACENT SURFACES AND PREP FOR NEW WORK.
- W2. REMOVE PLYWOOD ON WALL. PATCH AND REPAIR EXISTING FRAMING / INSULATION AND PREP FOR NEW WORK.
- W3. REMOVE PORTION OF PARTIAL EXTERIOR MTL. PANELS ADJACENT AND ABOVE EXISTING TO BE DEMOLISHED DOOR TO THE EXTENTS SHOWN AND PREP FOR PANEL REPLACEMENT. SEE DEMO ELEVATIONS.

MISCELLANEOUS DEMOLITION KEYED NOTES

- M1. REMOVE EXISTING DOOR COMPLETE. PREP ROUGH OPENING FOR NEW WORK. PATCH AND REPAIR ADJACENT FINISHES AS REQ.
- M2. REMOVE DOORS COMPLETE AND PRESERVE FOR REUSE WHERE POSSIBLE. SEE A10.00 FOR DOOR SCHEDULE.
- M3. REMOVE EXISTING MOP SINK COMPLETE. SEE PLUMB.
- M4. REMOVE EXISTING WATER HEATER COMPLETE. SEE PLUMB.
- M5. REMOVE EXISTING SINK AND STEEL COUNTER AND SALVAGE FOR RE-USE. PATCH AND REPAIR WALL AS REQ. PREP SURFACES FOR NEW WORK. SEE KITCHEN EQUIPMENT DRAWINGS.
- M6. EXISTING ELECTRICAL PANEL TO BE REMOVED. SEE ELEC.
- M7. EXISTING GAS LINE FEED / METER TO BE REMOVED. SEE MECH.
- M8. EXISTING DISCONNECT TO BE REMOVED. SEE ELEC.
- M9. EXISTING BACKFLOW PREVENTER AND WATER LINES TO BE REMOVED. SEE PLUMB.
- M10. EXISTING VENT PIPE TO BE REMOVED. SEE PLUMB.
- M11. EXISTING POWER OUTLET TO BE REMOVED. SEE ELEC.
- M12. EXISTING SAFETY SWITCH TO BE REMOVED. SEE ELEC.
- M13. EXISTING ELECTRICAL METER TO BE REMOVED. SEE ELEC.
- M14. EXISTING DISCONNECT SWITCH TO BE REMOVED. SEE ELEC.

RCP DEMOLITION KEYED NOTES

- C1. REMOVE EXISTING LIGHT FIXTURES AND SALVAGE FOR RE-USE. TURN OVER ANY ADD'L LIGHT FIXTURES NOT REINSTALLED TO OWNER. SEE ELEC.
- C2. EXISTING MECHANICAL EQUIP. TO BE REMOVED. SEE MECH. REMOVE ADJACENT MTL. PANELS AND PREP FOR REPLACEMENT MTL. PANELS. SEE ELEV.
- C3. EXISTING LIGHT FIXTURE TO BE REMOVED. SEE ELEC.
- C4. EXISTING GAS LINE TO BE REMOVED. SEE MECH.
- C5. EXISTING LIGHT FIXTURE IN ATTIC TO BE REMOVED AND BE REPLACED WITH EXISTING, SALVAGED LIGHT FIXTURE. SEE ELEC.



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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
DEMOLITION FLOOR PLAN & REFLECTED CEILING PLAN

SHEET NUMBER:
AD1.10



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DKA PROJECT NO: 25-037

KEY PLAN:

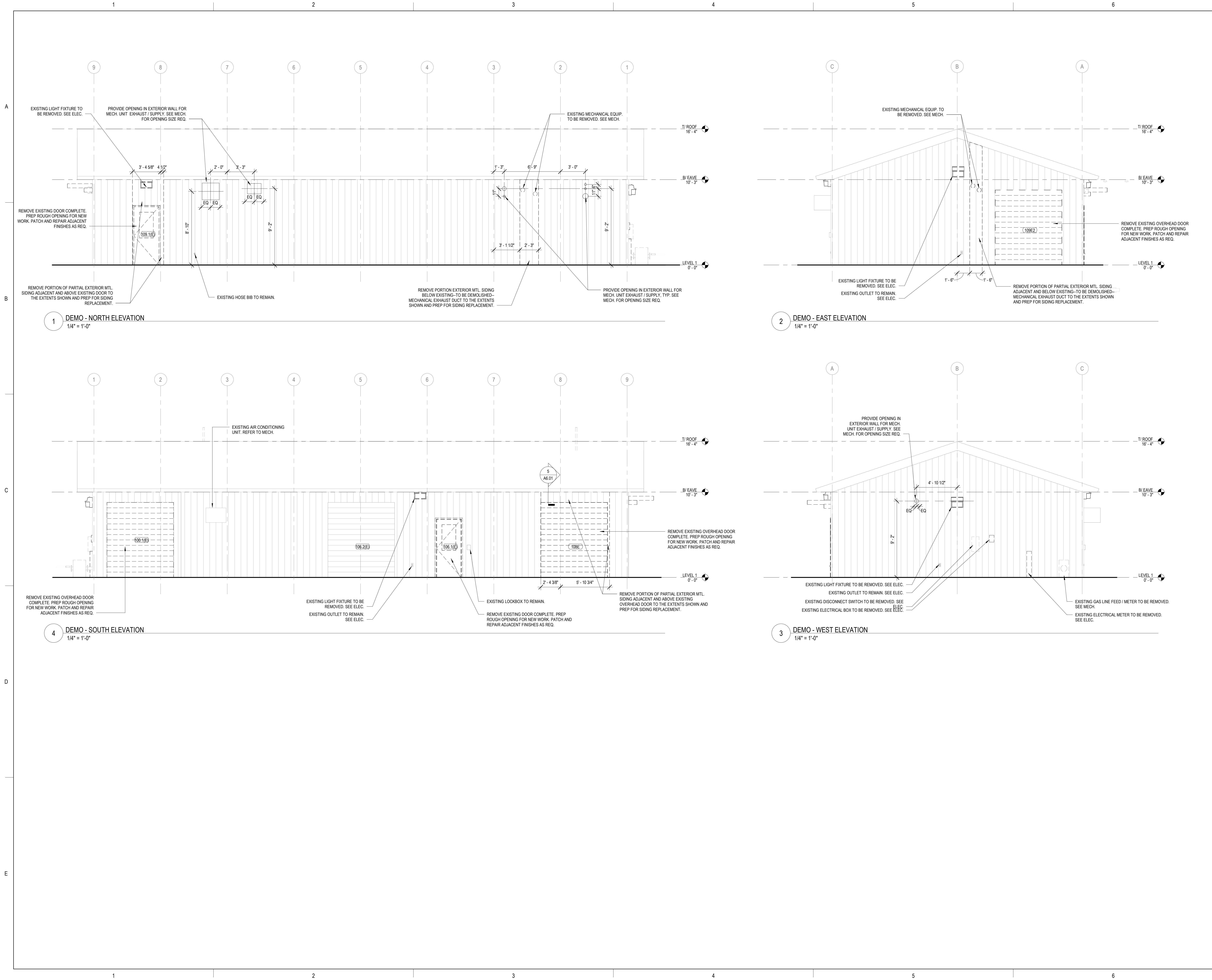
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FOR CONSTRUCTION**

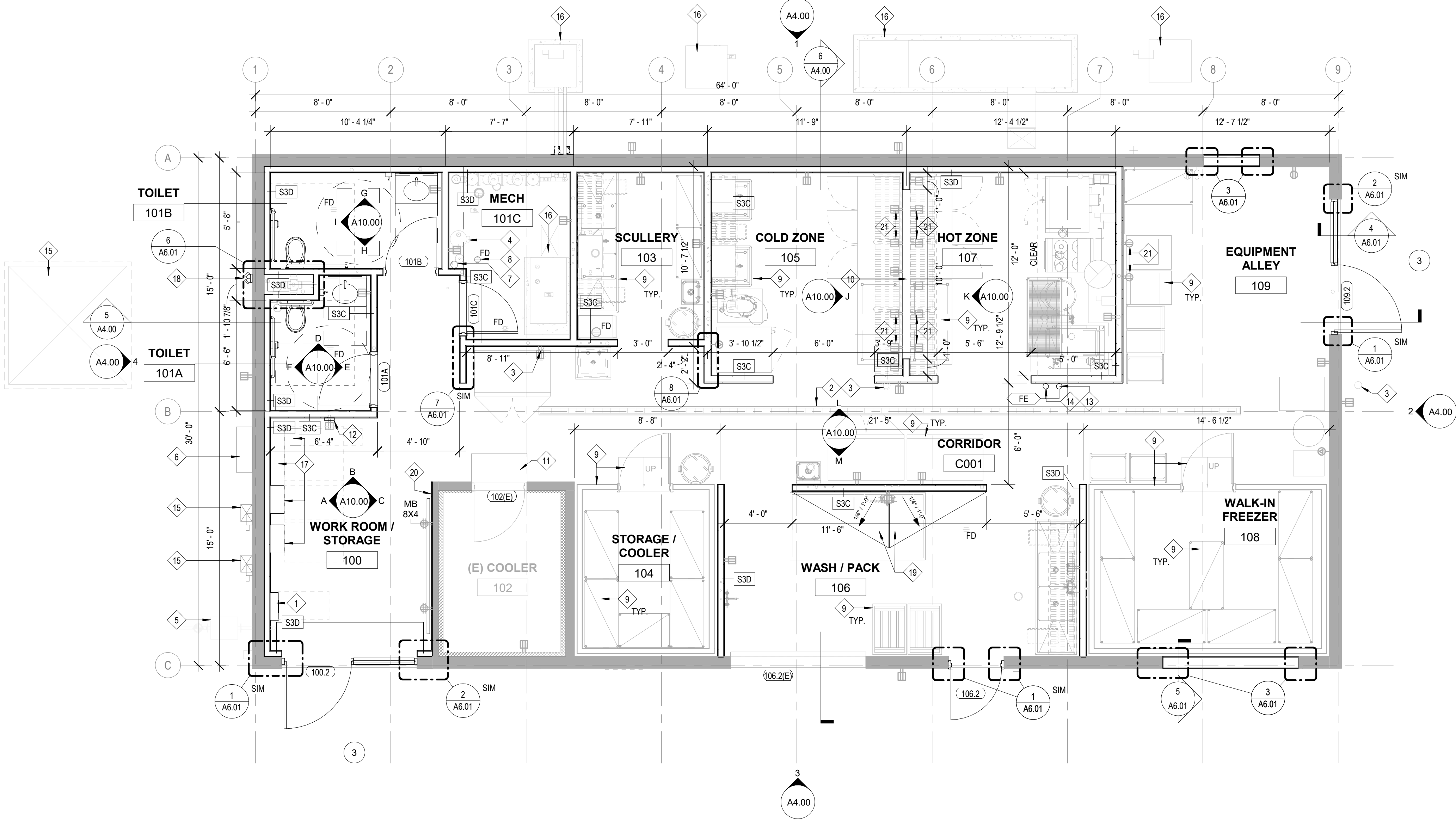
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**DEMOLITION
EXTERIOR
ELEVATIONS**

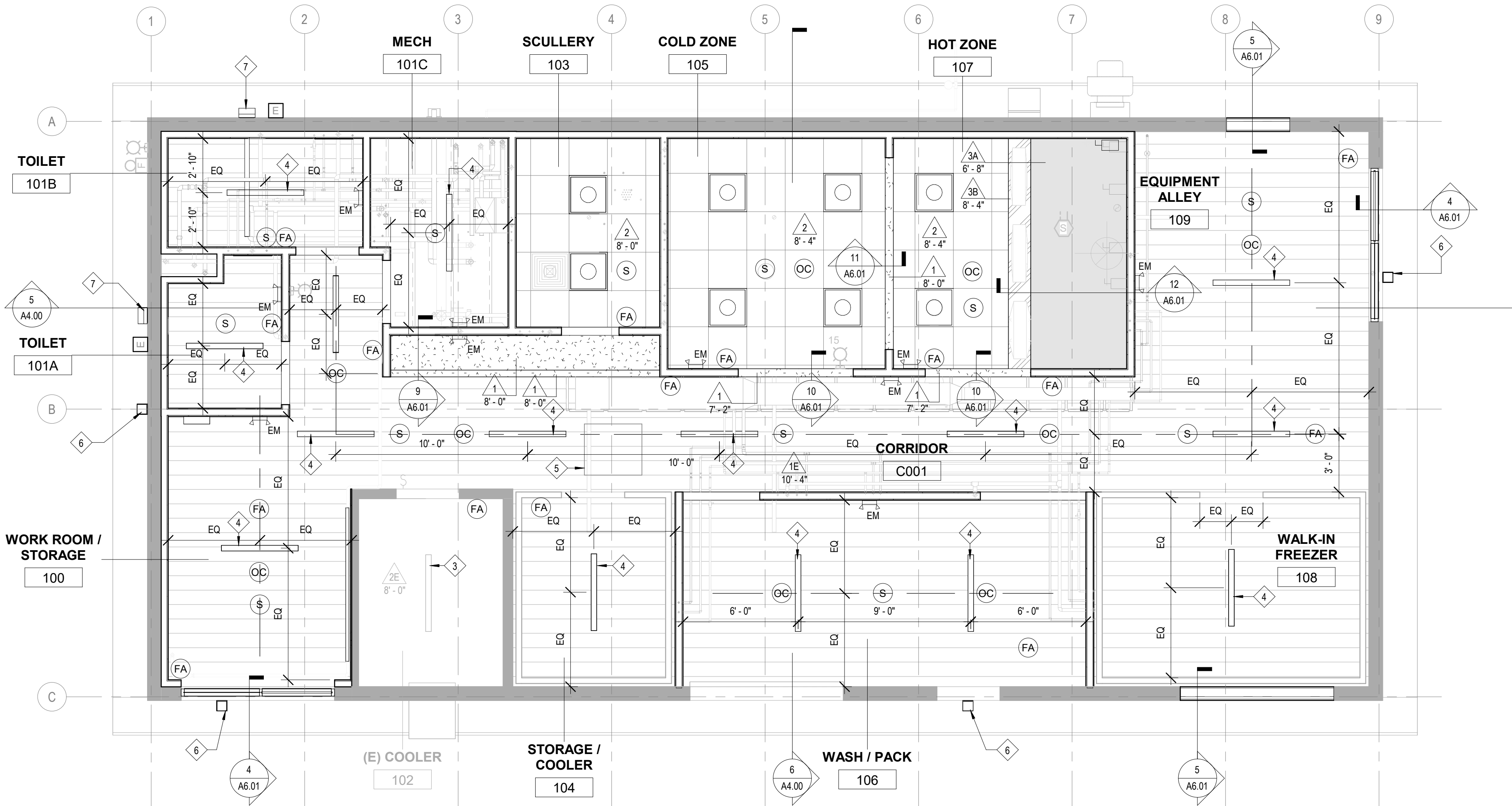
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1 LEVEL 1 - FLOOR PLAN
1/4" = 1'-0"



2 LEVEL 1 - REFLECTED CEILING PLAN
1/4" = 1'-0"



RCP SYMBOLS LEGEND:

- NOTES:
1. GRAYTONE LINEWORK DENOTES EXISTING CONSTRUCTION TO REMAIN.
2. REFER TO ME/P/FP DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.
- CEILING TYPE AND ELEVATION A.F.F.
 - SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
 - GYPSUM BOARD OR PLASTER CEILING SYSTEM
 - EXISTING CEILING OUTLET
 - EXTERIOR LIGHT
 - LINEAR LIGHT FIXTURE - SEE ELECTRICAL
 - 2 x 2 FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
 - SUPPLY AIR DIFFUSER - SEE MECHANICAL
 - RETURN AIR DIFFUSER - SEE MECHANICAL
 - EXHAUST AIR DIFFUSER - SEE MECHANICAL
 - EXIT SIGN, CEILING MOUNTED - SEE ELECTRICAL
SOLID DENOTES FACE PLATE, ARROW DENOTES EGRESS DIRECTION
 - EXIT SIGN, WALL MOUNTED - SEE ELECTRICAL
SOLID DENOTES FACE PLATE, ARROW DENOTES EGRESS DIRECTION
 - EMERGENCY LIGHT - SEE ELECTRICAL
 - FIRE ALARM DEVICE - SEE ELECTRICAL
 - OCCUPANT SENSOR - SEE ELECTRICAL
 - FIRE ALARM NOTIFICATION SPEAKER - SEE ELECTRICAL

RCP GENERAL NOTES:

- REFER TO ME/P/FP DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.
- DURING THE BID PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE PROJECT TO REVIEW EXISTING CONDITIONS. CONTRACTORS FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE NATURE OF EXISTING CONDITIONS AND THE WORK THEREBY INVOLVED SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
- ALL ME/P/ITEMS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE FOR REFERENCE AND COORDINATION ONLY. REFER TO ME/P FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT BETWEEN ITEMS THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION.
- IN AREAS THAT DO NOT HAVE REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, THE CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE, OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE THE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH, AND PROVIDE A SEAMLESS TRANSITION TO EXISTING ADJACENT FINISHES.
- CENTER ALL FIXTURES IN CEILING TILES U.N.O. - ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE U.N.O.
- CENTER ALL SPRINKLER HEADS IN CEILING TILES.
- EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS MINIMUM 4" ABOVE FINISHED CEILING U.N.O.
- ALL GYPSUM BOARD CEILINGS SHALL BE PAINTED PT.1 U.N.O.

RCP REFERENCED NOTES:

REFER TO ME/P/FP DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.

- EXISTING AIR CONDITIONING UNIT TO REMAIN. SEE MECH.
- EXISTING CEILING OUTLETS TO REMAIN. SEE ELEC.
- EXISTING LIGHT FIXTURE TO REMAIN. SEE ELEC.
- LIGHT FIXTURE. SEE ELEC. AND DEMO FOR RE-USE VERSUS NEW FIXTURES.
- EXISTING CEILING HATCH TO REMAIN. VERIFY LOCATION IN FIELD PRIOR TO NEW WORK.
- NEW EXTERIOR LIGHT FIXTURE. SEE ELEC.
- BATHROOM EXHAUST FAN. SEE MECH.

RCP CEILING TYPES:

TYPE	DESCRIPTION
1E	EXISTING CORR. METAL CEILING SYSTEM.
2E	EXISTING COOLER CEILING SYSTEM.
1	GYP. BD. ON METAL FRAMING.
2	2x2 WASHABLE, ACOUSTICAL PANEL CEILING SYSTEM
3A	KITCHEN HOOD, SEE MECH. AND KITCHEN EQUIPMENT DRAWINGS.
3B	SS. PERF. PANEL FOR KITCHEN HOOD. SEE MECH. AND KITCHEN EQUIPMENT DRAWINGS.

FLOOR PLAN SYMBOLS LEGEND:

- NOTES:
1. GRAYTONE LINEWORK DENOTES EXISTING CONSTRUCTION TO REMAIN.
2. REFER TO ME/P/FP DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND TECHNOLOGY SYSTEMS.
- GYPSUM BOARD, PLASTER OR ON METAL
 - UNIT MASONRY PARTITION
 - FRAME AND DOOR
 - TAGS
 - ROOM NAME
 - ROOM NAME AND NUMBER
 - DOOR NUMBER - SEE DOOR AND FRAME SCHEDULE
 - PARTITION TYPE - SEE PARTITION TYPES
 - ENLARGED DETAIL CALLOUT
 - BUILDING SECTION CALLOUT
 - WALL SECTION CALLOUT
 - ELEVATION VIEW CALLOUT
 - ELEVATION CALLOUT (RELATIVE TO ARCH 0'-0")
 - DEVICES
 - WALL-MOUNTED FIRE EXTINGUISHER
 - MARKER BOARD, WIDTH x HEIGHT
 - FLOOR DRAIN - SEE PLUMBING

FLOOR PLAN GENERAL NOTES:

- ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION.
- REFER TO CODE PLANS ON SHEETS AC1-10 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
- DO NOT SCALE DRAWINGS.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
- NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
- PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
- REFER TO A1.10 FOR PARTITION INFORMATION. ALL INTERIOR PARTITIONS SHALL BE TYPE S1A-A, U.N.O. - ALL GYP BD COLUMN ENCLOSURES SHALL BE TYPE S2D, U.N.O.
- REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

REFER TO ME/P/FP DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.

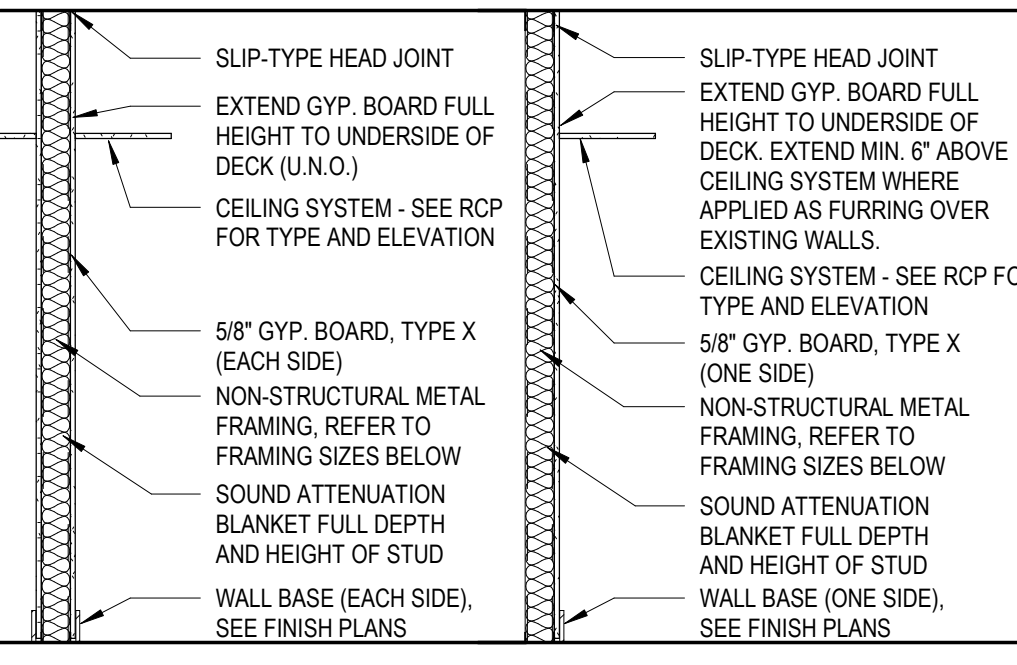
- FIRE ALARM CONTROL PANEL. SEE ELEC.
- EXISTING TRENCH DRAIN TO REMAIN. SEE PLUMB.
- EXISTING CLEANOUT TO REMAIN. SEE PLUMB.
- WATER HEATER. SEE MECH.
- GAS LINE FEED / METER. SEE MECH.
- ELECTRICAL METER. SEE ELEC.
- EXISTING WATER LINE. SEE PLUMB.
- EXISTING FLOOR DRAIN. SEE PLUMB.
- KITCHEN EQUIPMENT PROVIDED AND INSTALLED BY CONTRACTOR. SEE KITCHEN EQUIPMENT DRAWINGS AND SPECS.
- OPENING IN WALL. SEE ELEV.
- EXISTING STEP UP TO COOLER TO REMAIN.
- EXISTING WIRELESS HOTSPOT ENCLOSURE - REMOVE IN DEMO AND REINSTALL IN LOCATION INDICATED. PROVIDE POWER AS REQUIRED. SEE ELEC.
- TYPE ABC FIRE EXTINGUISHER MOUNTED TO WALL.
- TYPE K FIRE EXTINGUISHER MOUNTED TO WALL.
- ELECTRICAL EQUIPMENT AND ASSOCIATED CLEARANCES. SEE ELEC.
- MECHANICAL EQUIPMENT AND ASSOCIATED CONCRETE PAD, IF APPLICABLE. SEE MECH. AND KITCHEN EQUIPMENT DRAWINGS.
- ELECTRICAL EQUIPMENT AND ASSOCIATED CLEARANCES. SEE ELEC.
- FIRE DEPARTMENT CONNECTION. SEE PLUMB.
- SELF LEVELING, SLOPED INTEGRAL FLOOR SYSTEM. SEE FINISH PLANS.
- 5/8" GYP. BD. ON EXISTING WALL.
- ELEC. POWER OUTLET @ 48" AFF. SEE ELEC AND KITCHEN EQUIPMENT DRAWINGS.

PARTITION TYPE LEGEND

- MODIFIER DESIGNATION - REFER TO PARTITION TYPES FOR MORE INFORMATION
- FRAMING DEPTH
 - PARTITION STYLE
- PARTITION STYLE ABBREVIATIONS
- METAL STUDS

PARTITION TYPE GENERAL NOTES:

- ALL INTERIOR PARTITIONS SHALL BE TYPE S1A (U.N.O.)
- ALL GYP BD ENCLOSURES AROUND COLUMNS SHALL BE TYPE S2D (U.N.O.)
- PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING, FLAT METAL STRAPS, OR METAL BACKING PLATES AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, DOOR STOPS, MILLWORK, DIGITAL DISPLAYS, VISUAL DISPLAY BOARDS, TOILET PARTITIONS, AND SIMILAR CONDITIONS.
- PROVIDE MOISTURE RESISTANT GYP BD AT ALL PLUMBING PARTITIONS NOT SCHEDULED TO RECEIVE TILE.
- SEE SPECIFICATIONS FOR ORIENTATION OF GYP BD PANELS, SIZING, AND SPACING OF METAL STUD FRAMING.
- SEE SPECIFICATIONS FOR TYPE AND SPACING OF CMU HORIZONTAL JOINT REINFORCEMENT.
- SEE INTERIOR ELEVATIONS FOR ANY GYP BD REVEAL PATTERNS.



- S1A - GYP. BOARD EACH SIDE
CONSTRUCT PER UL 1419 AT SMOKE AND 1-HR FIRE RESISTANCE RATED PARTITIONS
- S3A - 3-5/8" FRAMING
 - S3B - 3-5/8" FRAMING
 - S3C - FRP ON GYP. BOARD EACH SIDE
 - S3D - FRP ON GYP. BOARD ONE SIDE
 - S3E - 3-5/8" FRAMING
 - S3F - 3-5/8" FRAMING



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KEY PLAN:

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SHEET TITLE:
FLOOR PLAN &
REFLECTED CEILING
PLAN

SHEET NUMBER:

A1.10



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McHenry County College
Student Farm Renovations
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
**ISSUED FOR BID - NOT
FOR CONSTRUCTION**

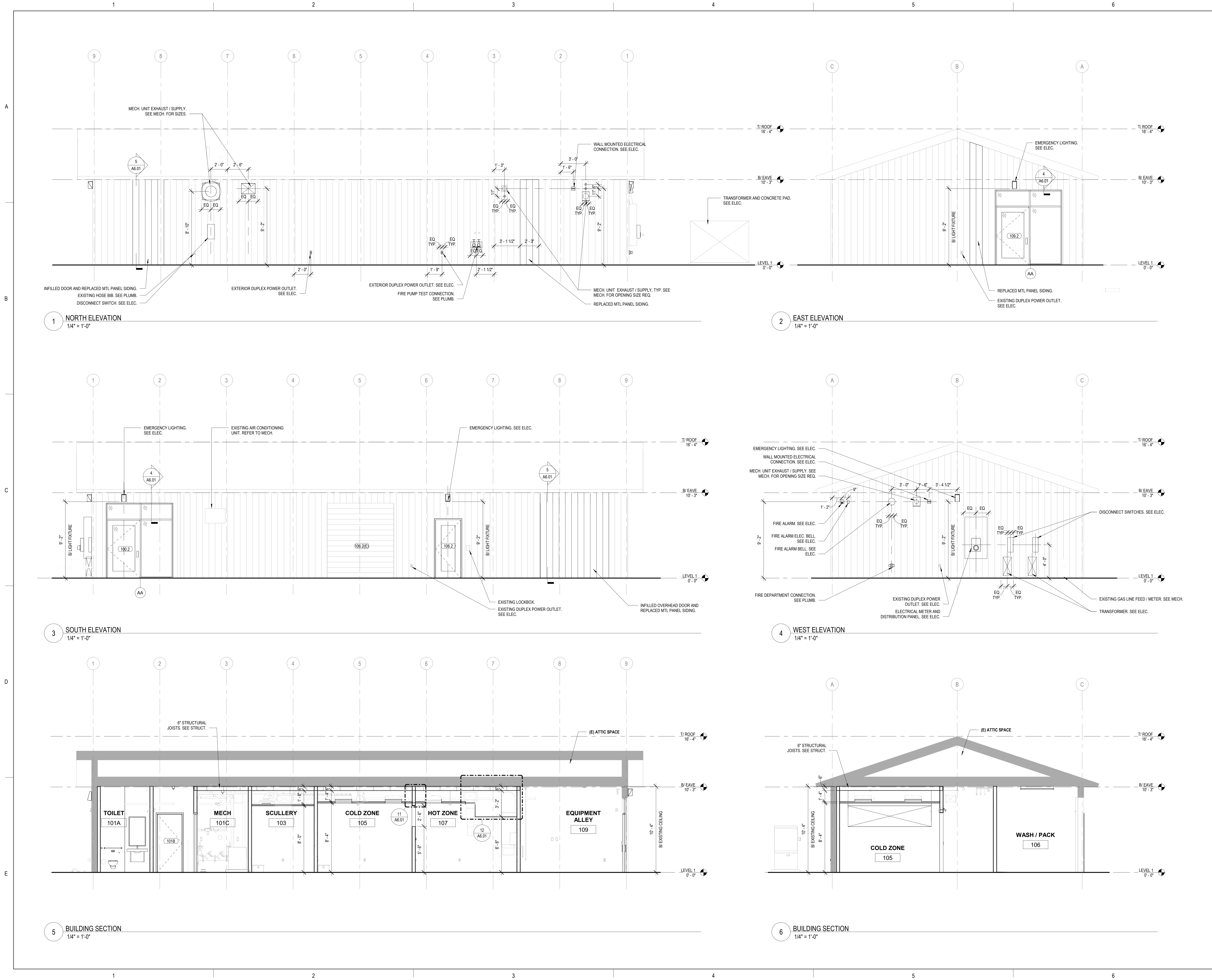
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SHEET TITLE:
**EXTERIOR
ELEVATIONS &
BUILDING SECTIONS**

SHEET NUMBER:

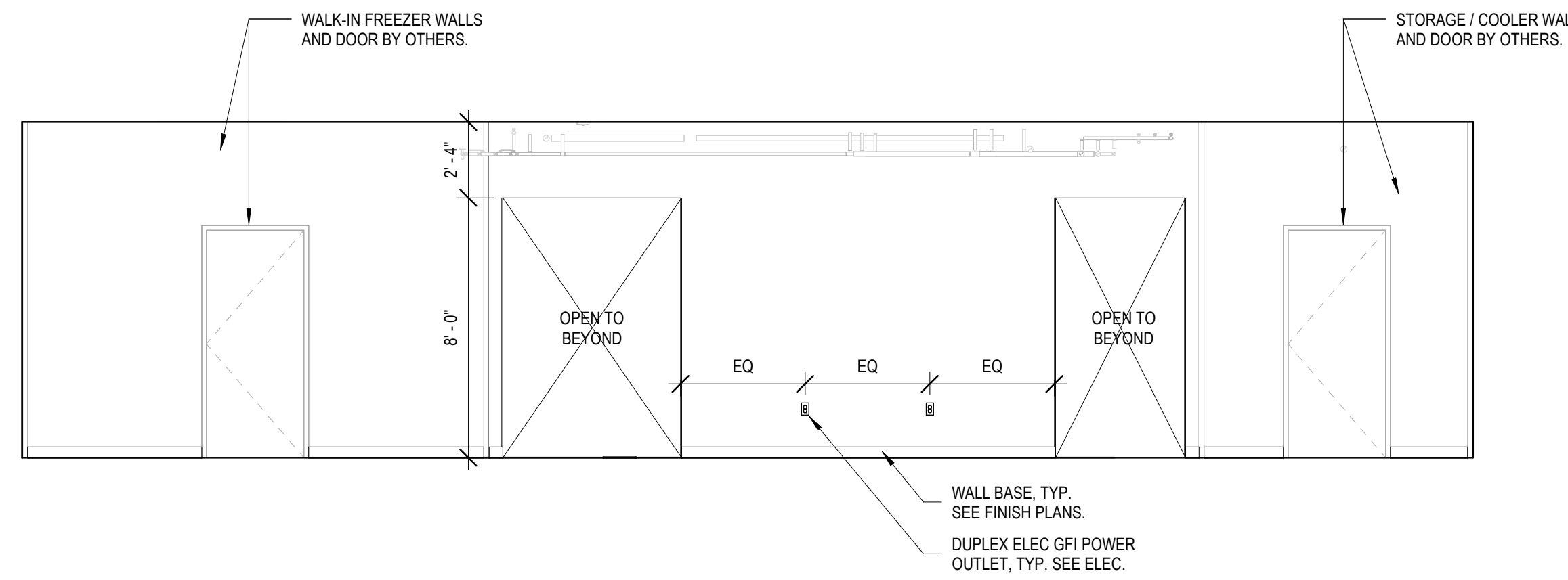
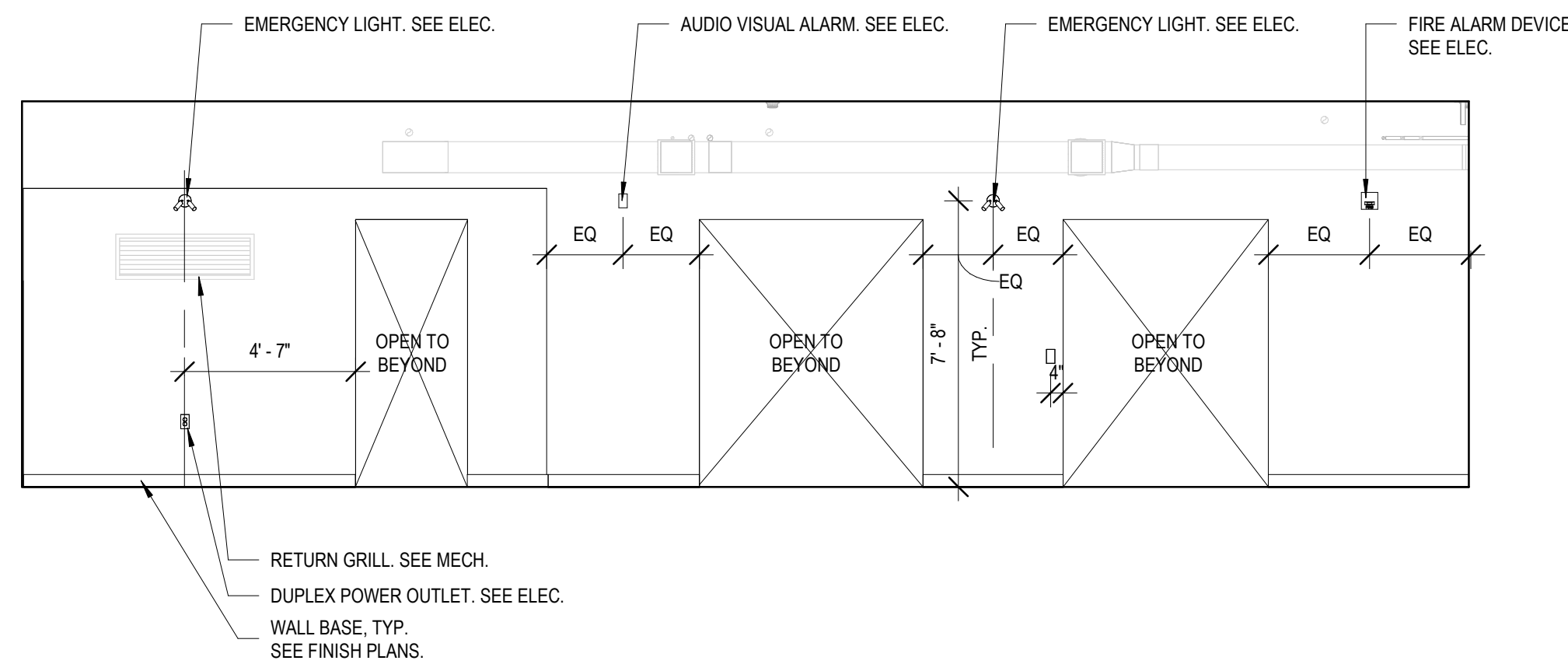
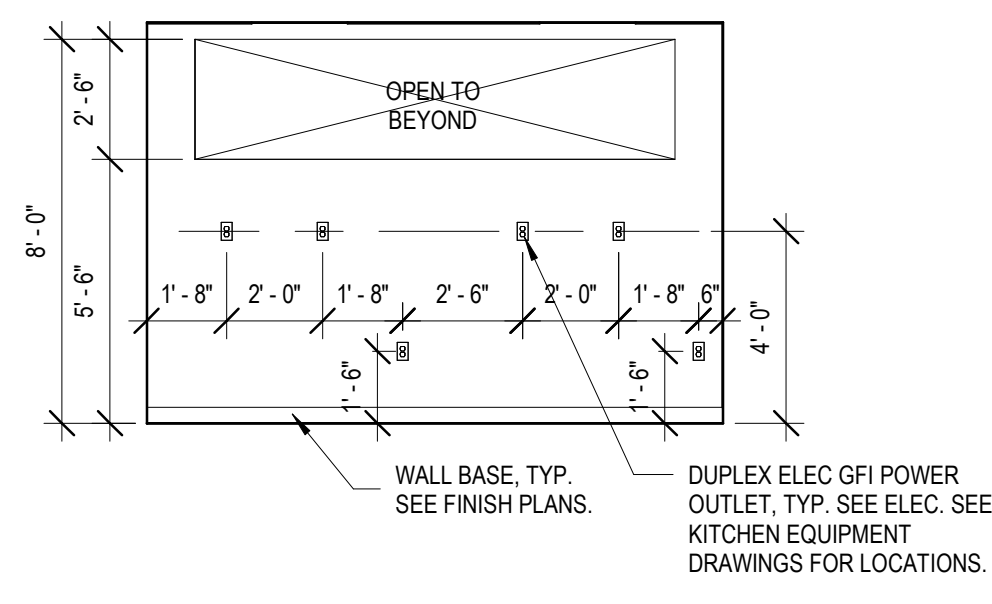
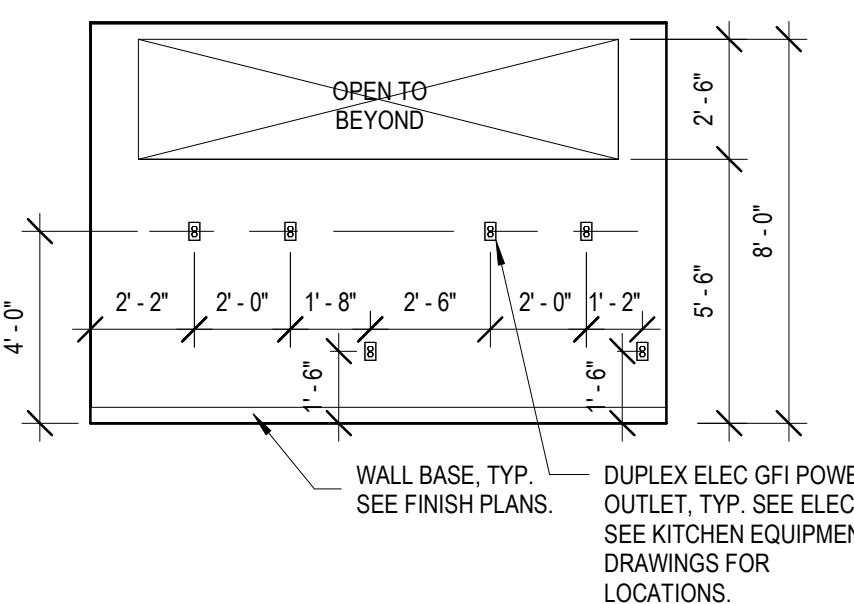
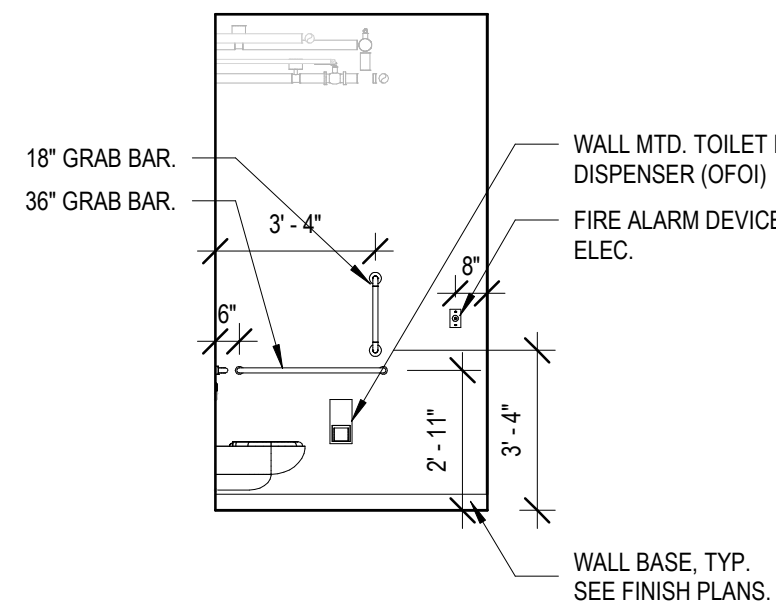
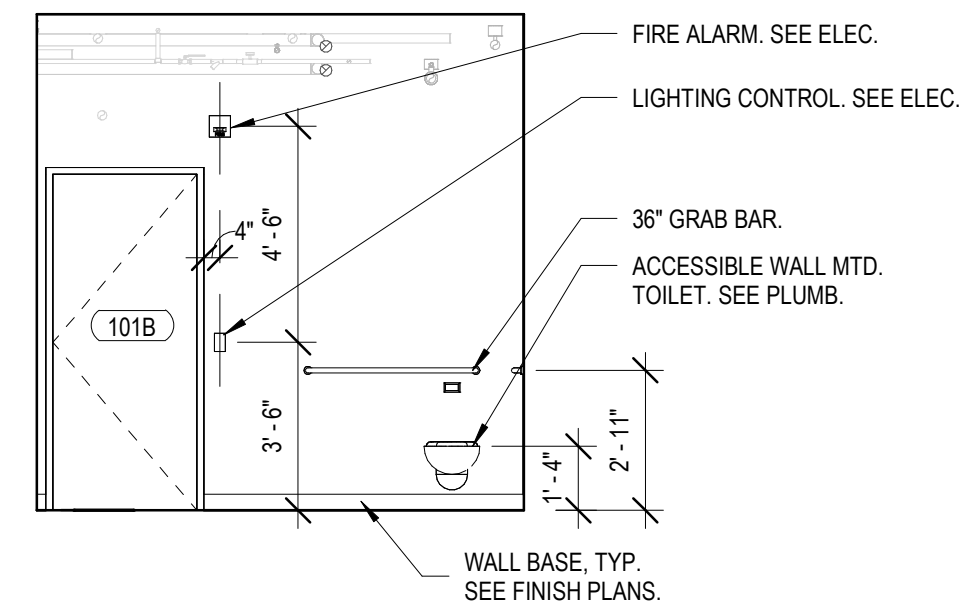
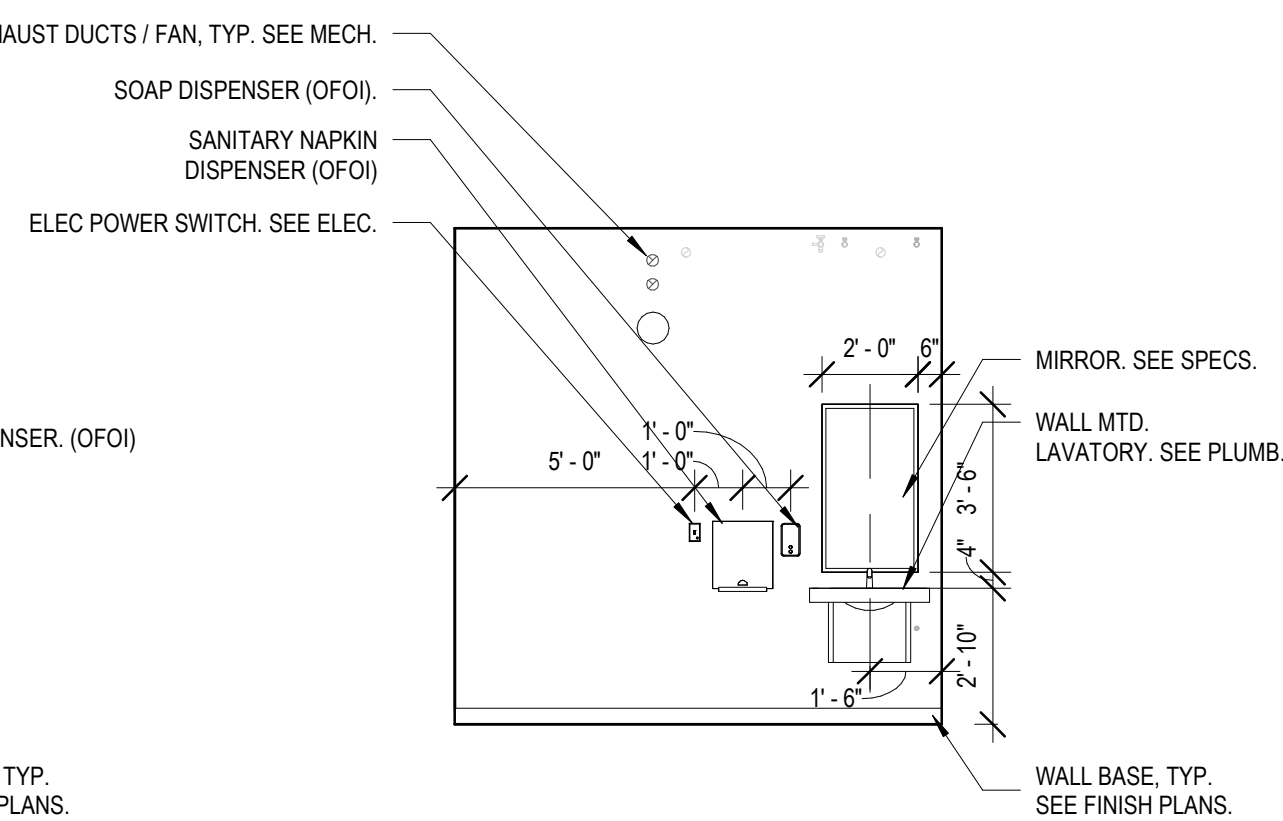
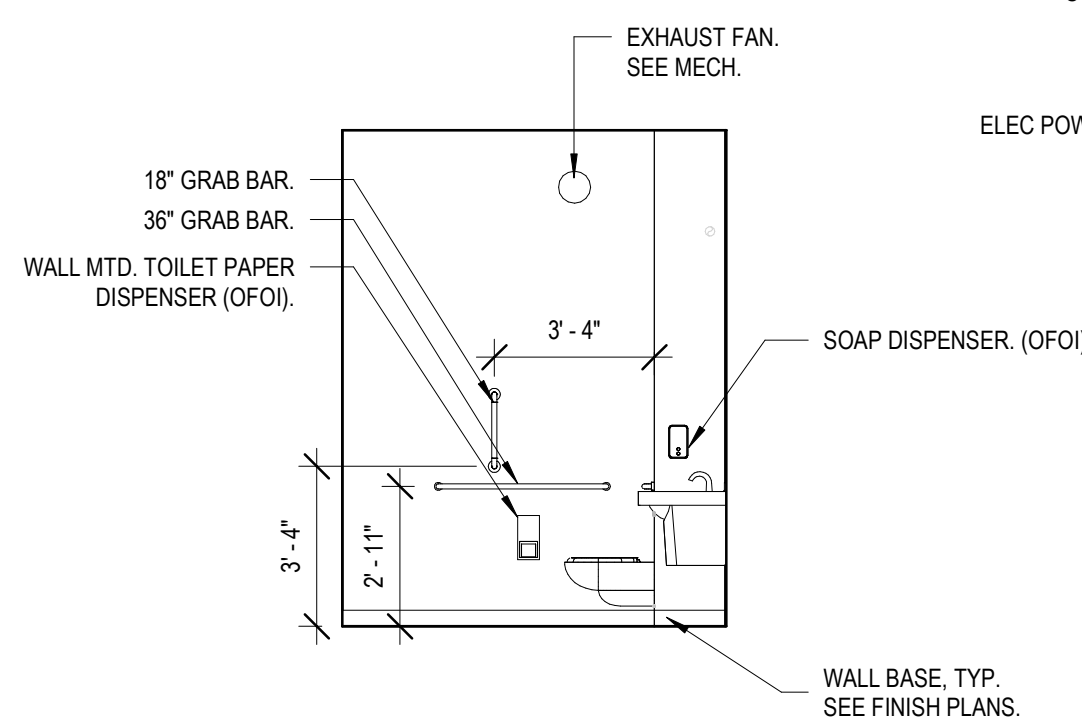
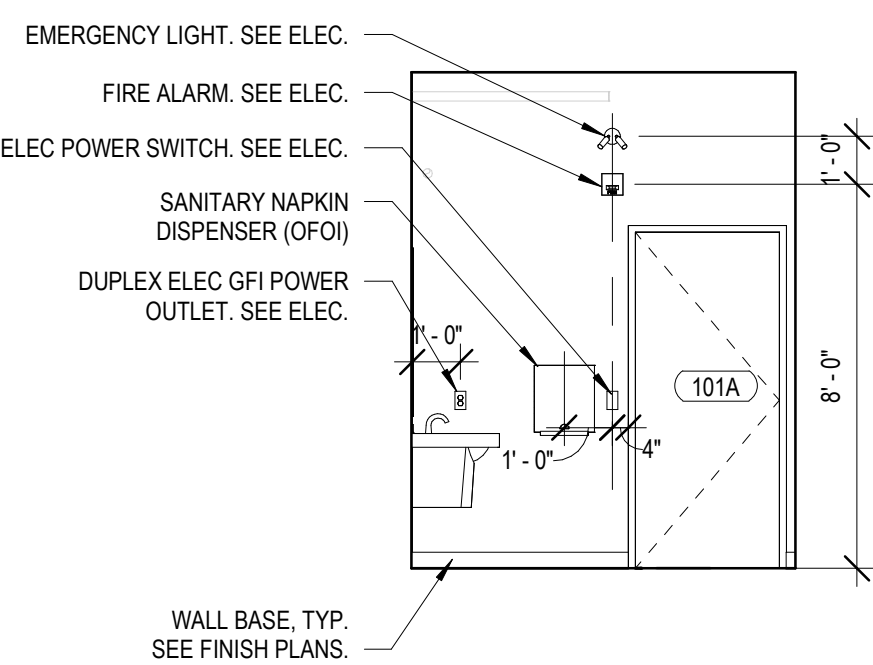
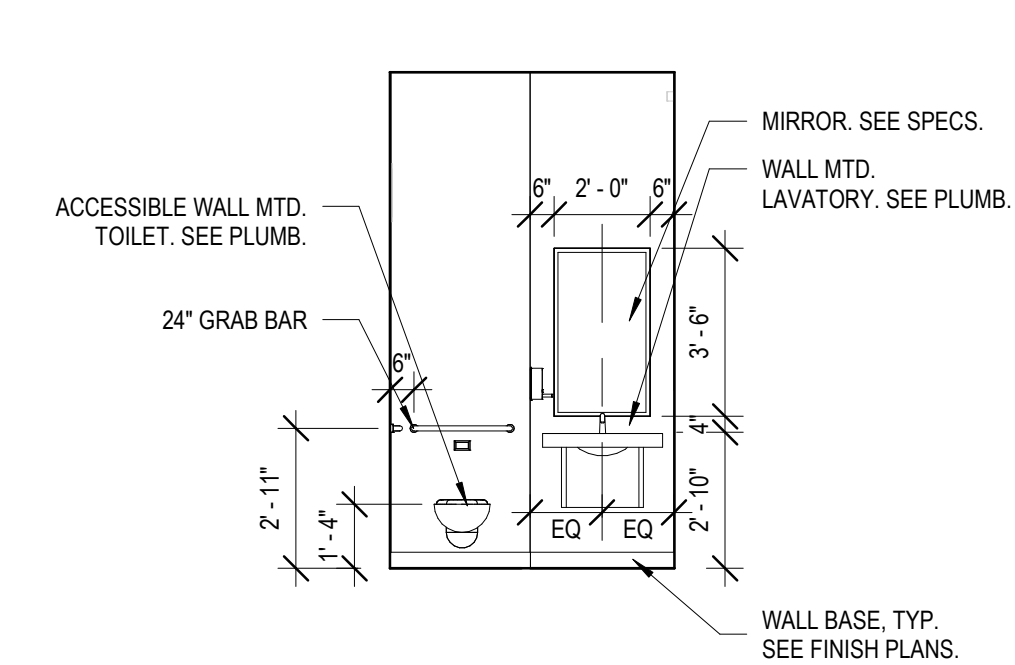
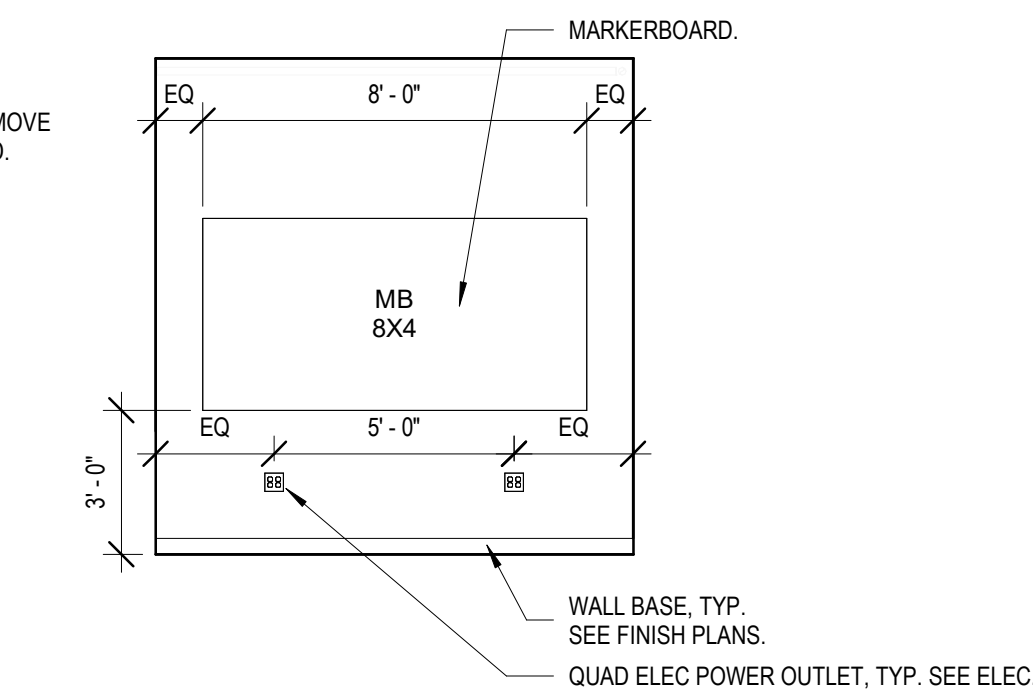
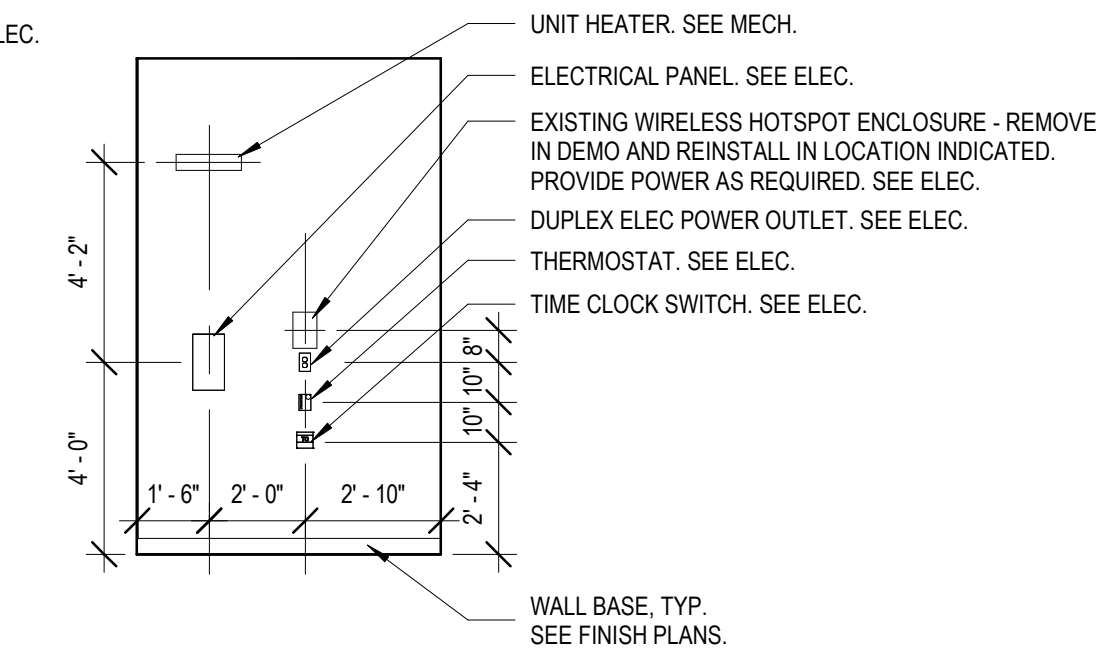
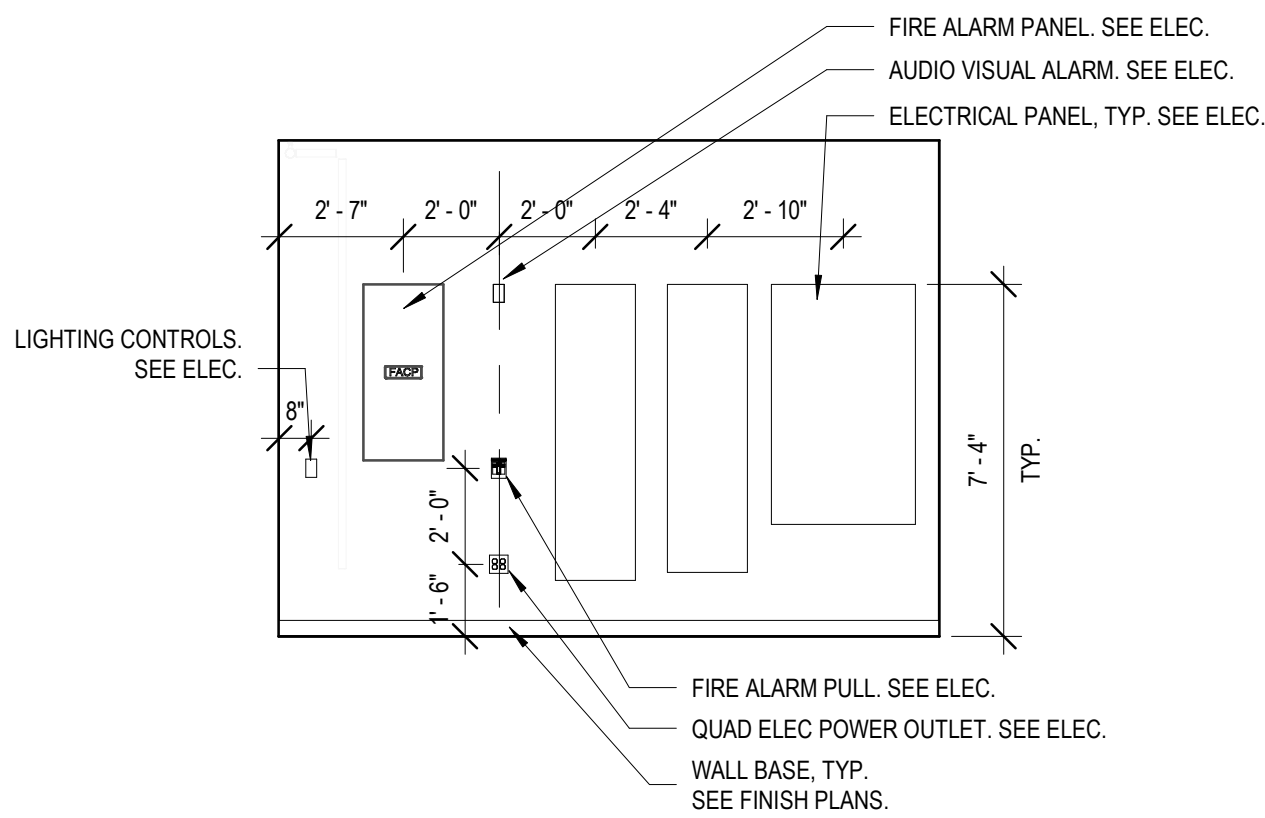
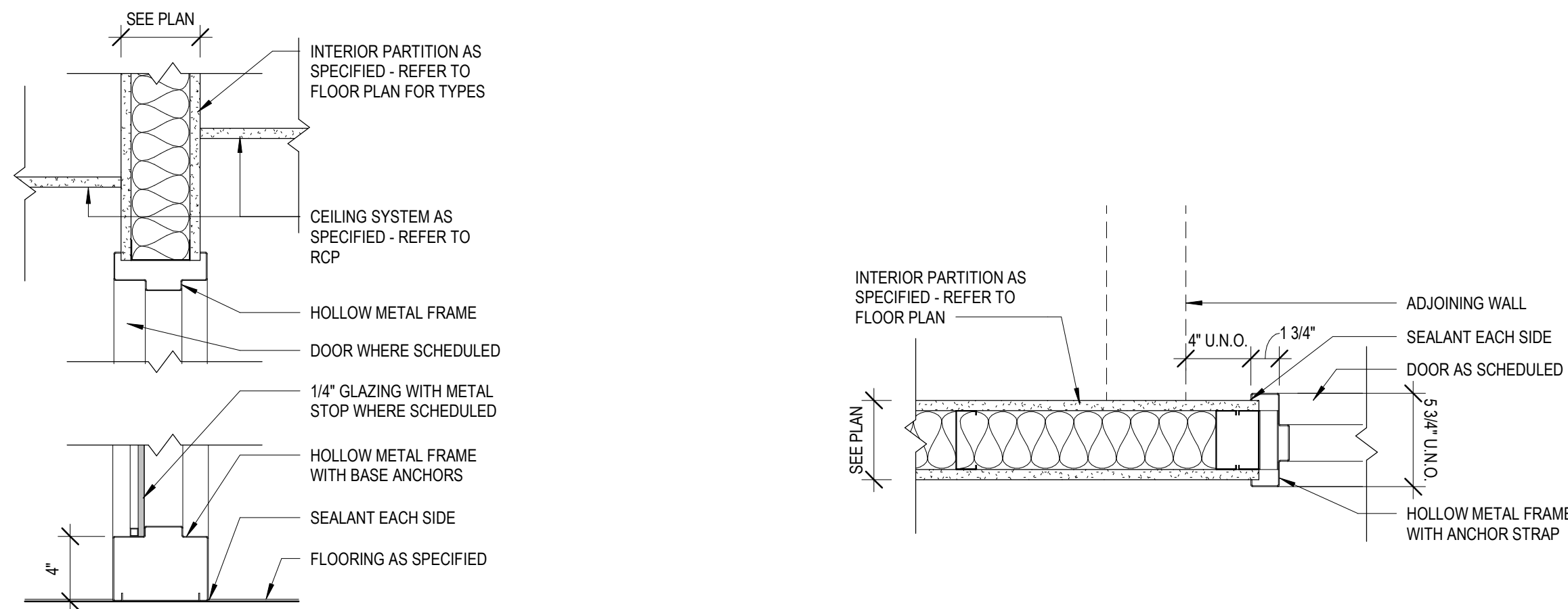
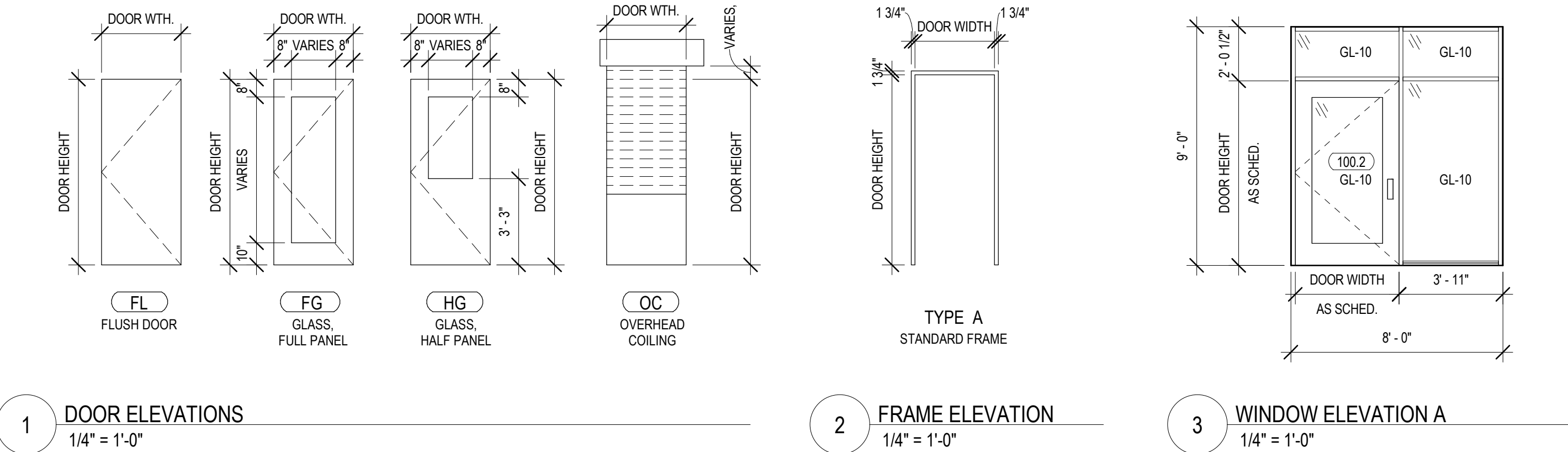
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DOOR AND FRAME SCHEDULE - NEW WORK												
NUMBER	ROOM NAME	DOOR		FIRE RATING	MATERIAL	ELEV	GLAZING TYPE	FRAME		HARDWARE SET		REMARKS
		WIDTH	HEIGHT					MATERIAL	GLAZING TYPE			
100.2	WORK ROOM / STORAGE	4'-0"	7'-0"	-	HM	FG	GL-10	HM	WINDOW ELEV A	HS-01		RE-CORE ALL DOORS TO BE ON CAMPUS SYSTEM
101A	TOILET	3'-0"	7'-0"	-	HM	FL	-	HM	A	HS-02		CONTRACTOR TO REVIEW EXISTING HM DOORS FOR SALVAGE AND REUSABILITY
101B	TOILET	3'-0"	7'-0"	-	HM	FL	-	HM	A	HS-02		CONTRACTOR TO REVIEW EXISTING HM DOORS FOR SALVAGE AND REUSABILITY
101C	MECH	3'-0"	7'-0"	-	HM	FL	-	HM	A	HS-03		CONTRACTOR TO REVIEW EXISTING HM DOORS FOR SALVAGE AND REUSABILITY
106.2	WASH / PACK	3'-0"	7'-0"	-	HM	FG	GL-10	HM	A	HS-01		RE-CORE ALL DOORS TO BE ON CAMPUS SYSTEM
109.2	EQUIPMENT ALLEY	4'-0"	7'-0"	-	HM	FG	GL-10	HM	WINDOW ELEV A	HS-01		RE-CORE ALL DOORS TO BE ON CAMPUS SYSTEM

DOOR AND FRAME SCHEDULE - EXISTING TO REMAIN												
NUMBER	ROOM NAME	DOOR		FIRE RATING	MATERIAL	ELEV	GLAZING TYPE	FRAME		HARDWARE SET		REMARKS
		WIDTH	HEIGHT					MATERIAL	ELEV			
100.1(E)	WORK ROOM / STORAGE	8'-0"	9'-0"	-	OC							OVERHEAD DOOR, FRAME AND TRACK TO REMAIN
102(E)	(E) COOLER	3'-0"	7'-0"	-	FL				A			EXISTING FLUSH DOOR AND FRAME TO REMAIN. REKEY TO NEW BUILDING KEYING / CORES.
106.1(E)	WASH / PACK	3'-0"	7'-0"	-	HG				A			EXISTING HG DOOR AND FRAME TO REMAIN. REKEY TO NEW BUILDING KEYING / CORES.
106.2(E)	WASH / PACK	8'-0"	9'-0"	-	OC							OVERHEAD DOOR, FRAME AND TRACK TO REMAIN
109.1(E)	EQUIPMENT ALLEY	3'-0"	7'-0"	-	HG				A			EXISTING HG DOOR AND FRAME TO REMAIN. REKEY TO NEW BUILDING KEYING / CORES.



GLAZING SCHEDULE	
TYPE	DESCRIPTION
GL-10	1" INSULATED GLAZING UNIT - CLEAR



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8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT
FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

SHEET TITLE:
DOOR SCHEDULE,
ELEVATIONS, AND
DETAILS

SHEET NUMBER:

A10.00

4/21/2026 11:54:30 AM

DESIGN CRITERIA

- STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH 2021 INTERNATIONAL BUILDING CODE AND SUBSEQUENT REFERENCE STANDARDS.
- RISK CATEGORY: II
- DEADLOADS:

	TYPICAL	5 PSF
CEILING		
SEISMIC:		
SEISMIC DESIGN CATEGORY		
IMPORTANCE FACTOR	B	1.0
SITE CLASS	D	
S _s	0.112 g	
S ₁	0.059 g	
S _{0.2}	0.12 g	
S _{0.1}	0.094 g	
WIND:		
BASIC WIND SPEED	V = 107 MPH	
EXPOSURE CLASS	B	
INTERNAL PRESSURE COEFFICIENT, GCPI	+0.18	
COMPONENTS & CLADDING:		
WALL COMPONENTS	ZONE 4	ZONE 5
A-200 SF	28 PSF	30 PSF
A-50 SF	31 PSF	35 PSF
A-20 SF	34 PSF	42 PSF

C & C NOTES:

- THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
- WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
- SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES. 'u' = 3 FT.
- SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT'S JURISDICTION FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.

GENERAL

- DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYS, ETC. SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE NOTIFIED FOR CLARIFICATION.
- STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN CRITERIA.
- STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

SUBMITTALS

- SUBMITTALS ARE:
 - CONCRETE MIX DESIGNS
 - MATERIAL, PRODUCT DATA FOR STRUCTURAL MATERIALS
 - CONCRETE REINFORCING
 - STEEL FABRICATION AND MISCELLANEOUS METALS
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
- SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE DESIGN PROFESSIONALS.
- SUBMITTALS SHALL BE REVIEWED BY THE DESIGN PROFESSIONALS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE DESIGN PROFESSIONALS ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
- FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DELEGATED DESIGN

- DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
- DELEGATED DESIGNS ARE:
 - COLD FORMED STEEL FRAMING AND CONNECTIONS
- ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.

EXISTING CONDITIONS / DEMOLITION

- EXISTING CONDITIONS:
 - EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM FIELD TAKE-OFF BY THE ARCHITECT AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
 - ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THE WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY TO PREVENT DAMAGE TO EXISTING ELEMENTS WHICH ARE TO REMAIN.
- ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITES THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
- ALL CONSTRUCTION IS NEW UNLESS IDENTIFIED AS EXISTING. 'EY' THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLAB UON. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318, 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE', AND ACI 301, 'SPECIFICATIONS FOR STRUCTURAL CONCRETE'. CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THE WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- CONCRETE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

REINFORCING STEEL UON	ASTM A615, GR 60	Fy=60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy=65 KSI
- MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#6 TO #18	2
		#5 AND SMALLER	1 1/2
	SLABS, JOISTS, AND WALLS	#14 & #18	1 1/2
		#11 AND SMALLER	3/4
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	BEAMS, COLUMNS, PRESTRESSING, AND TENSION TIES	PRIMARY REINF, STIRRUPS, TIES, PRESTRESSING, AND TENSION TIES	1 1/2

- REINFORCING STEEL SHALL BE INSTALLED TO WITHIN THE FOLLOWING TOLERANCES. INDICATED TOLERANCES ARE PER ACI 117, 'SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS':

ITEM FOR WHICH TOLERANCE IS BEING MEASURED	PERMITTED TOLERANCE
CONCRETE COVER FOR SLAB TOP AND BOTTOM BARS	±1/4"
COVER FOR OTHER REINFORCING STEEL	±3/8"

THE ABOVE LIST OF PERMITTED TOLERANCES SHALL BE PROVIDED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT PROVIDE THIS LIST OF TOLERANCES WILL BE REJECTED.
- FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED UON.
- WELDING OF REINFORCING STEEL OTHER THAN A706 IS PROHIBITED. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH AWS D1.4 OR D1.8.
- ALL WELDED WIRE REINFORCING SHALL BE LAP SPICED 2 PANELS (1'-0" MIN).
- FIELD CUTTING OF REINFORCING STEEL IS PROHIBITED UNLESS INDICATED ON THE REINFORCING PLACING DRAWINGS.
- REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315, 'THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
- REINFORCING STEEL SPACINGS ARE CENTER-TO-CENTER DIMENSIONS UON.
- REINFORCING STEEL SHOWN IN SECTION PERPENDICULAR TO THE CUT ARE CONTINUOUS UON.
- THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
- A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE UON.
- CONCRETE MATERIALS SHALL CONFORM TO:

PORTLAND LIMESTONE CEMENT	ASTM C595, TYPE II
FLY ASH	ASTM C618, TYPE C OR F
SLAG CEMENT	ASTM C989
FINE AND COARSE AGGREGATE	ASTM C33
LIGHTWEIGHT AGGREGATE	ASTM C330
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494

CONCRETE STRENGTHS SHALL CONFORM TO:			
COMPONENT	f _c AT 28 DAYS ¹ (PSI)	MAX PERMITTED W/C	EXPOSURE CLASS
INTERIOR SLAB-ON-GRADE	3000	0.60	F0, S0, W0, C0

- IF ALTERNATE VALUES ARE INDICATED ON PLANS OR DETAILS FOR SPECIFIC CONDITIONS, THEY SHALL BE USED IN LIEU OF THOSE LISTED IN THE TABLE.
- REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE:

CONCRETE ELEMENT	REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE ²
ALL CONCRETE UON	1"
TOPPING SLABS LESS THAN 3" THICK	3/8"

¹ SMALLER NOMINAL MAXIMUM COARSE AGGREGATE SIZE SHALL BE USED WHERE REQUIRED PER ACI 318.
- JOINTS ABUTTING EXISTING CONCRETE CONSTRUCTION SHALL BE ROUGH JOINTS UON.
- NOTIFY THE ARCHITECT 48 HOURS MINIMUM PRIOR TO ALL POURS.
- CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
- CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATIONS OF PROPOSED CONCRETE CORES.
- REINFORCING STEEL SHALL NOT BE DAMAGED WHEN DRILLING FOR CONCRETE.
- ADHERE TO ACI 308R AND ACI 308R FOR HOT AND COLD WEATHER CONCRETE CONSTRUCTION.
- THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AND INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTORS. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.

COLD-FORMED STEEL (CFS) DELEGATED

- ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS SHALL CONFORM TO THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL METALS, AISI S100.
- THE STRUCTURAL DRAWINGS DO NOT REFLECT THE ENTIRE SCOPE OF WORK REQUIRED FOR COLD-FORMED STEEL FRAMING AND CONNECTIONS. COLD-FORMED STEEL FRAMING SHALL BE PROVIDED FOR AND COORDINATED WITH ARCHITECTURAL, MEP, AND OTHER DRAWINGS.
- COLD-FORMED STEEL FRAMING AND CONNECTIONS INDICATED OR REFERENCED IN THE CONTRACT DOCUMENTS ARE FOR PURPOSES OF CONVEYING DESIGN INTENT ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL SYSTEMS THAT SUPPORT GRAVITY OR LATERAL LOADS SHALL BE THE RESPONSIBILITY OF THE COLD-FORMED STEEL SUBCONTRACTOR AND THEIR STRUCTURAL ENGINEER. THE DESIGN OF COLD-FORMED STEEL SYSTEMS SHALL CONFORM TO THE GOVERNING BUILDING CODE AND REGULATIONS, AS WELL AS ANY SPECIAL CONDITIONS AND REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.
- STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER DESIGNATIONS ARE SPECIFIED ON THE CONTRACT DOCUMENTS UON. WHERE SPECIFIC MANUFACTURERS ARE SPECIFIED AND PROPRIETARY FRAMING DESIGNATIONS INDICATED, FRAMING BY OTHER MANUFACTURERS MAY BE USED PROVIDED THOSE FRAMING MEMBERS HAVE DIMENSIONS EQUIVALENT TO THE SPECIFIED FRAMING AND ENGINEERING PROPERTIES EQUIVALENT TO OR GREATER THAN THE SPECIFIED FRAMING. SUCH PROPOSED SUBSTITUTIONS ARE PERMITTED ONLY IF APPROVED IN WRITING BY THE DESIGN PROFESSIONALS.
- STRUCTURAL COLD-FORMED STEEL IS DEFINED AS THE FOLLOWING:
 - ANY COLD-FORMED STEEL THICKER THAN 26GA (33 MIL)
 - ANY EXTERIOR COLD-FORMED FRAMING AND CONNECTIONS
 - ANY LOAD BEARING MEMBER
 - ANY MEMBER CALLED OUT AND SPECIFIED IN THE STRUCTURAL DRAWINGS
 - ALL OTHER COLD-FORMED STEEL IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
- STRUCTURAL COLD-FORMED STEEL (ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES) SHALL CONFORM TO THE FOLLOWING STANDARDS:

18GA (43 MIL) AND THINNER	ASTM A653, GR 33	Fy=33 KSI
16GA (54 MIL) AND THICKER	ASTM A653, GR 50	Fy=50 KSI
CONNECTION MATERIAL > 3/16"	ASTM A36	Fy=36 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
ELECTRODES FOR ARC WELDING	AWS 5.1 E60XX	
- WIND LOADS PERPENDICULAR TO THE PLANE OF EXTERIOR WALLS SHALL BE COMPUTED BASED UPON THE COMPONENT AND CLADDING WIND PRESSURES INDICATED IN THE GENERAL NOTES.
- DESIGN SHALL INCLUDE DESIGN AND DETAILING OF FRAMING, BRIDGING, TEMPORARY AND PERMANENT BRACING, AND ALL FRAMING CONNECTIONS.
- COLD-FORMED STEEL COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR A FULL ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE SECURED IN PLACE UNTIL PROPERLY ATTACHED.
- SPLICING OF COLD-FORMED MEMBERS IS NOT PERMITTED.
- CUTOOTS, HOLES, OR NOTCHES ARE NOT PERMITTED IN COLD-FORMED STEEL ROOF AND FLOOR JOISTS, HEADERS, OR BEAMS WITHOUT PRIOR WRITTEN APPROVAL OF EITHER THE STRUCTURAL ENGINEER OR THE COLD-FORMED STEEL ENGINEER.
- CUTTING OF COLD-FORMED STEEL MEMBERS SHALL BE ACCOMPLISHED WITH A SAW OR SHEARS. TORCH CUTTING OF SUCH MEMBERS IS NOT PERMITTED. THE CUTTING OF ANY LOAD BEARING MEMBER IS PROHIBITED.
- HOLES FIELD CUT THROUGH COLD-FORMED STUD FRAMING SHALL BE MADE WITHIN THE LIMITATIONS OF THE PRODUCT AND THE PRODUCT DESIGN. HOLES SHALL BE REINFORCED AS RECOMMENDED BY THE MANUFACTURER.
- ALL WELDS SHALL COMPLY WITH THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100, AND THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3.
- CONNECTIONS SHALL BE MADE BY WELDS, SCREWS, BOLTS, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE MATERIAL COMPATIBLE WITH THE COLD-FORMED STEEL.
- LIMIT HORIZONTAL COLD-FORMED STUD OUT-OF-PLANE DEFLECTIONS DUE TO WIND LOADS TO THE FOLLOWING:
 - STUDS BACKING UP ALL OTHER FACADE MATERIALS: L/360 UON
- TEMPORARY BRACING SHALL BE PROVIDED WHERE REQUIRED TO ENSURE ALIGNMENT UNTIL WALL PANELS ARE INSTALLED AND CONSTRUCTION IS COMPLETED.
- CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONALS. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE COLD-FORMED STEEL FRAMING CONTRACTOR'S ENGINEER LICENSED IN THE PROJECTS JURISDICTION. ALL SUBMITTALS, INCLUDING DESIGN CALCULATIONS AND SHOP DRAWINGS, SHALL BE SIGNED AND SEALED BY THAT ENGINEER.

GENERAL

- THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
- DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
 - SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
 - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
 - FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
 - SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
 - POST-INSTALLED ANCHORS - INSPECTION
- THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
INSPECT REINFORCEMENT, AND VERIFY PLACEMENT	-	X	ACI 318: CH 20, 25.2, 25.3, 26.6-1-26.6.3	-
INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	-	X	ACI 318: 17.8.2	-
VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	-
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	-
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3-26.5.5	-

COLD-FORMED STEEL FRAMING

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	IBC REFERENCE
PREFABRICATED COLD FORM STRUCTURAL ELEMENTS	-	X	1704.2.5
INSTALLATION OF PERMANENT RESTRAINT/BRACING FOR COLD FORM TRUSS INDIVIDUAL MEMBERS FOR TRUSSES SPANNING 60 FEET OR GREATER	-	X	1705.5.4
TEMPORARY INSTALLATION OF RESTRAINT/BRACING FOR COLD FORM TRUSSES SPANNING 60 FEET OR GREATER	-	X	1705.5.4
LATERAL FORCE RESISTING SYSTEMS (SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLDOWNS, WHERE FASTENER SPACING AT PANEL EDGES IS 4" OR LESS) [ENGR NOTE: ONLY APPLICABLE TO SDC C, D, E, OR F.]	-	X	1705.11.2, 1705.12.3
a. WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM	-	X	1705.11.2, 1705.12.3
b. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING FOR ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM	-	X	1705.11.2, 1705.12.3

FOUNDATION SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
	SLAB DEPRESSION	
	STEP IN FOOTING	

CONCRETE SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
	RAMP (DIRECTION)	N/A
	RAMP DOWN	
	RAMP UP	
	SLAB CURB WALL	
	SLAB DROP	
	SLAB FOLD	
	SLAB THICKNESS CHANGE	
	SLAB/BEAM	
	SLOPING SLAB DROP	

STRUCTURAL ABBREVIATION KEY

ABBR: DESCRIPTION:

ED	EXISTING
ADD	ADDITIONAL
B.O.	BOTTOM OF
BF	BRACED FRAME
BN	BOUNDARY NAILING
BOT	BOTTOM
BETW	BETWEEN
CFS	COLD FORM STEEL
CGS	CENTER OF GRAVITY OF THE TENDON
CL	COMPLETE JOINT PENETRATION WELD
CLR	CLEAR
CL	CENTERLINE
CONN	CONNECTION
CONST	CONSTRUCTION
DBA	DEFORMED BAR ANCHOR
DL	DEAD LOAD
EA	EACH
EF	EACH FACE
EL	ELEVATION
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EDGE	EDGE OF SLAB
EW	EACH WAY
EXT	EXTERIOR
FN	FIELD NAILING
GA	GAGE OR GAUGE
GL	GLULAM
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
NTS	NOT TO SCALE
OPP	OPPOSITE, OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER
PL	PARTIAL JOINT PENETRATION WELD
PL	PLATE
REQD	REQUIRED
SC	SLIP CRITICAL
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SIM	SIMILAR
SL	SNOW LOAD
SP	SPACE(S)
SQ	SQUARE
T&B	TOP AND BOTTOM
T.O.	TOP OF
TC	PRE-TENSIONED BOLT
TRANS	TRANSVERSE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/F	VERIFY IN FIELD
W/	WITH
WWR	WELD POINT
WWR	WELDED WIRE REINFORCING

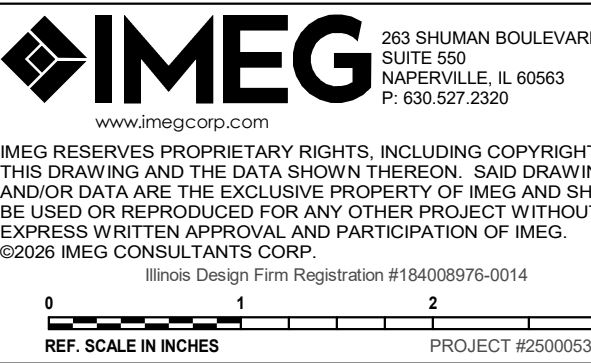
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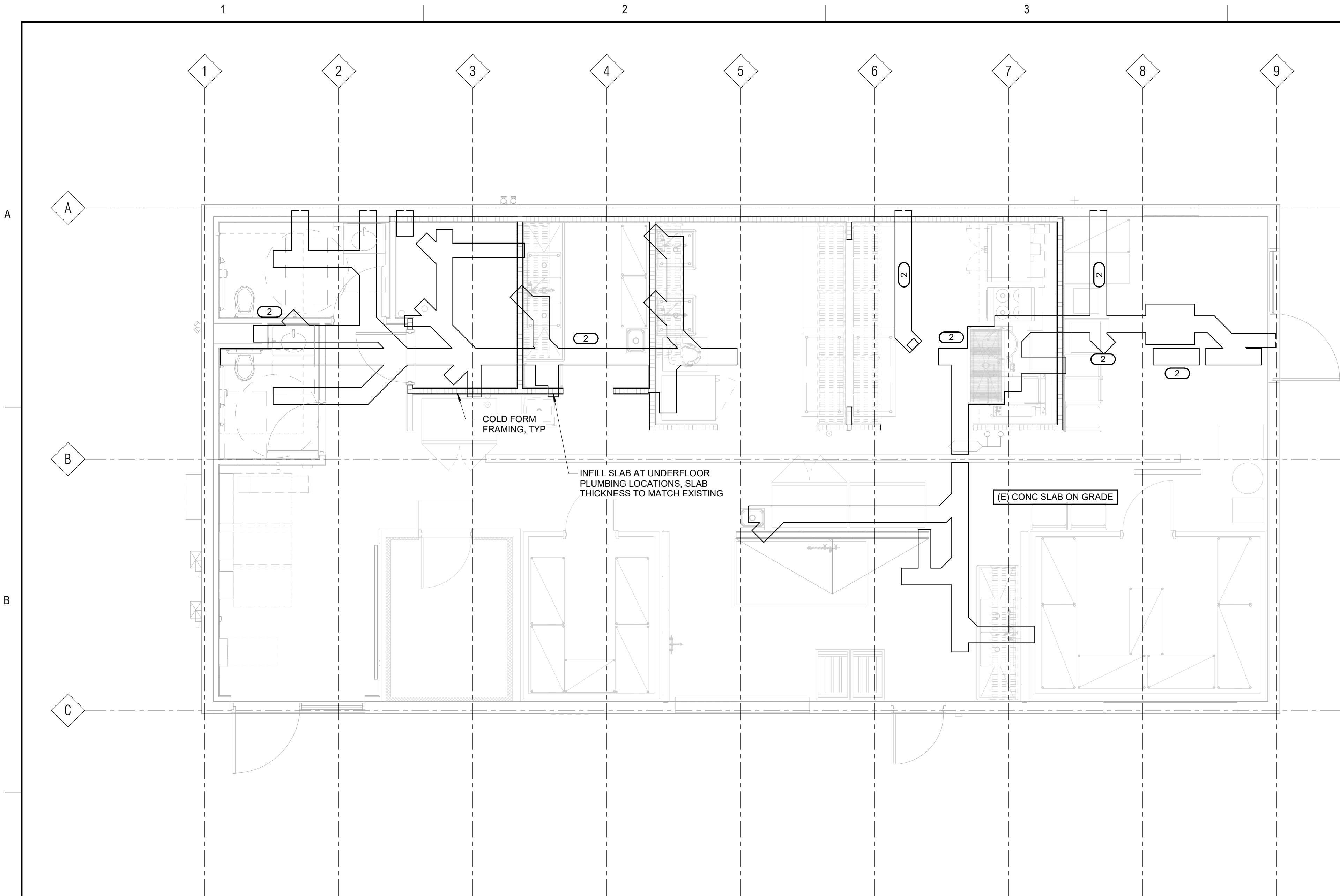
SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

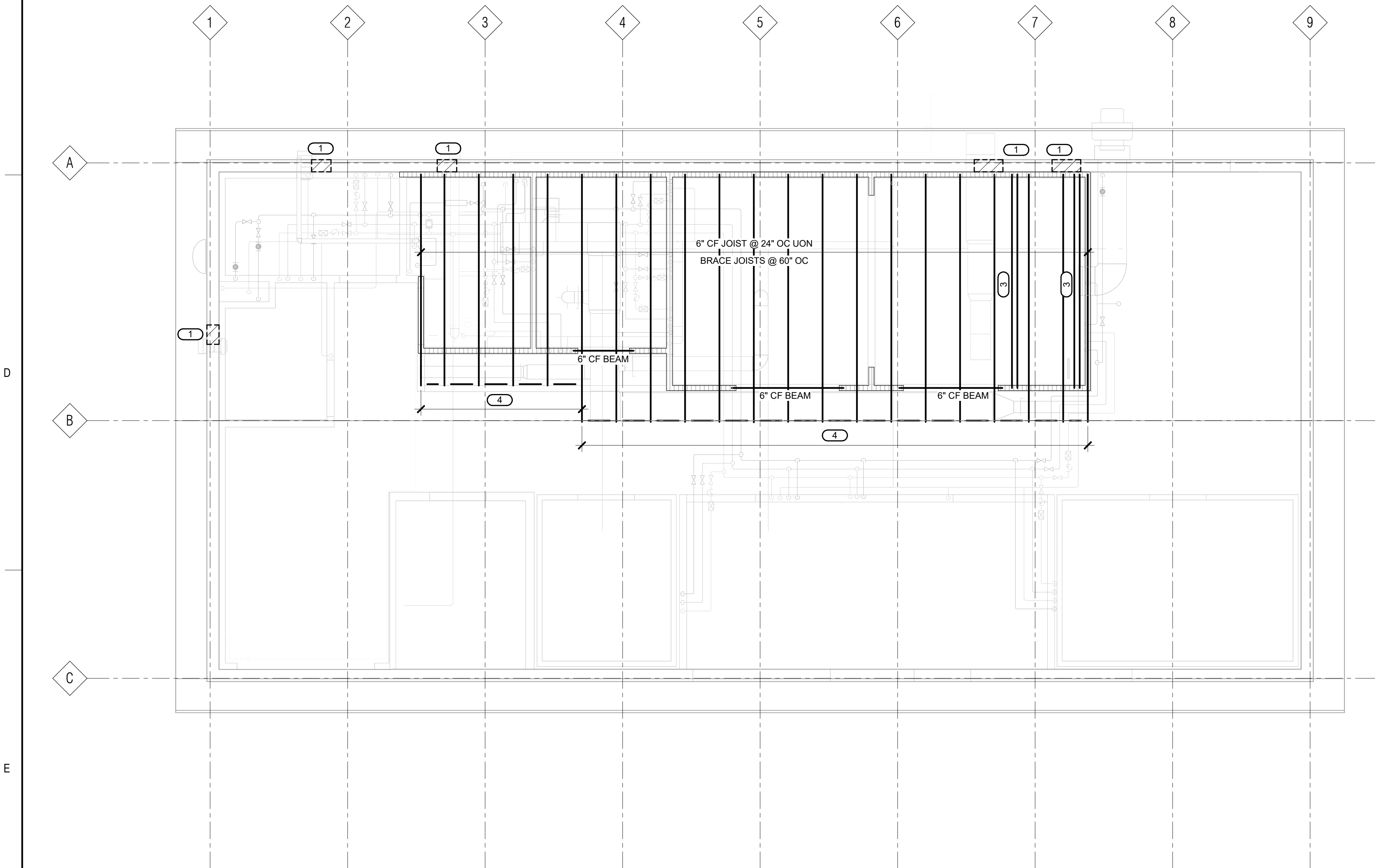
SHEET TITLE:
GENERAL NOTES, TESTING AND INSPECTION, SYMBOLS AND ABBREVIATIONS
SHEET NUMBER:

S0.00



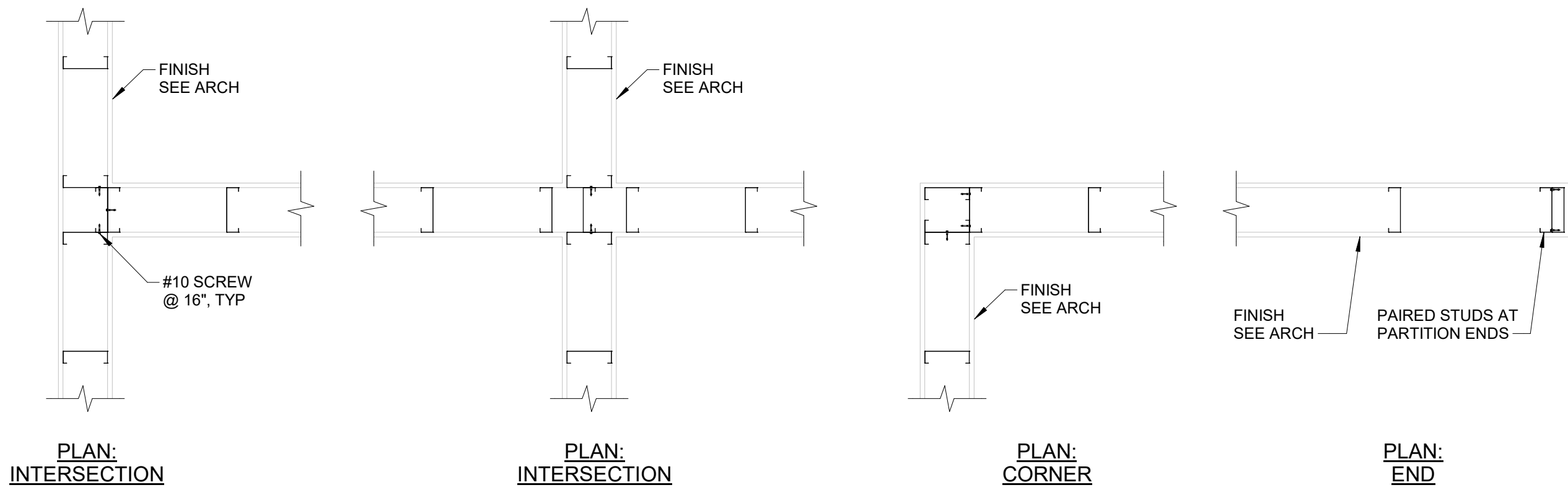


1 FOUNDATION PLAN
1/4" = 1'-0"

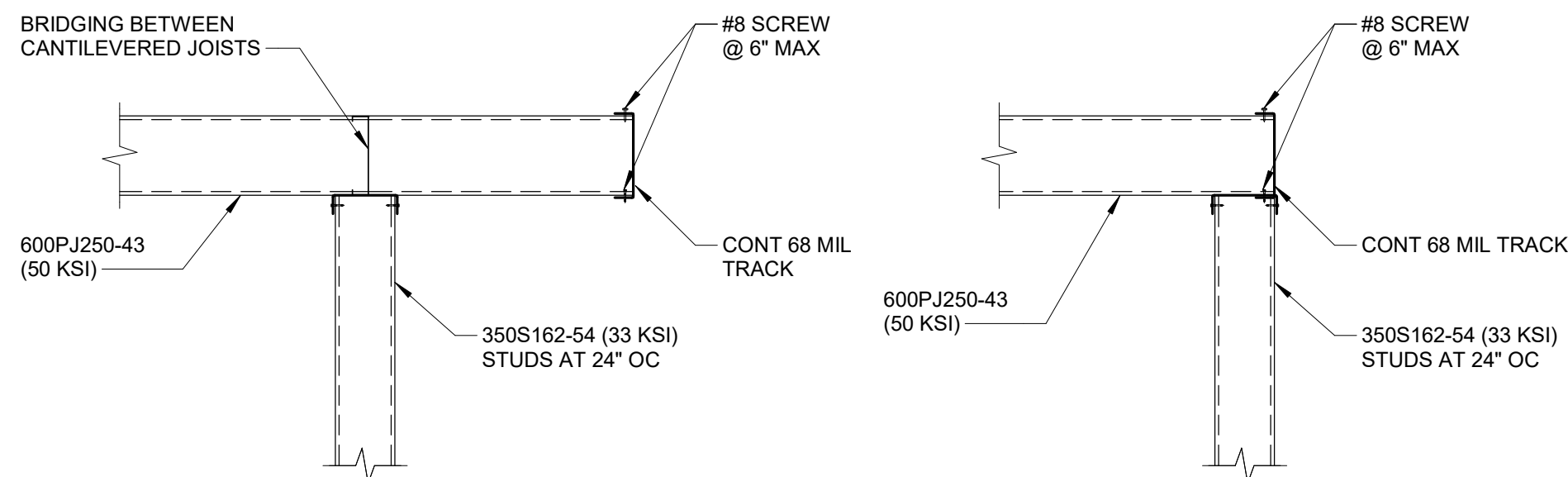


2 ROOF FRAMING PLAN
1/4" = 1'-0"

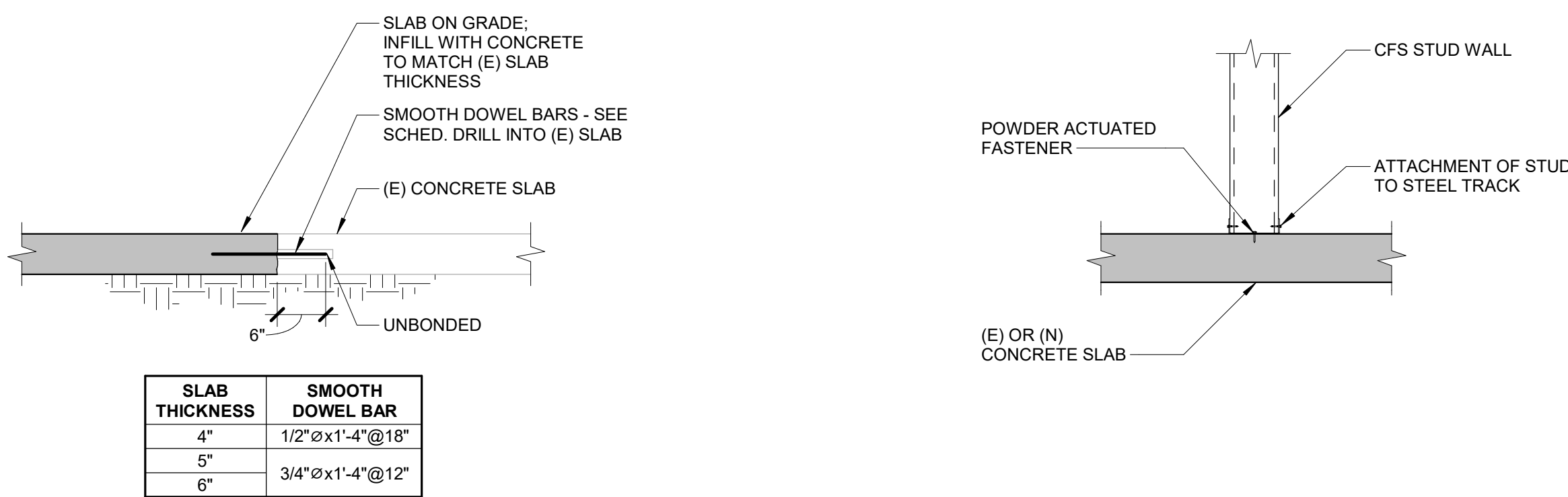
- (E) FOUNDATION & ROOF FRAMING SHEET NOTES:**
- STUDS ARE TO BE DESIGNED TO SUPPORT MECHANICAL DUCTWORK, PIPES AND HANGING KITCHEN EQUIPMENT. DEAD LOAD IS 10 PSF, TYP.
 - SEE GENERAL NOTES SECTIONS FOR ADDITIONAL INFORMATION.
 - CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCH DRAWINGS.
- KEYNOTES: (#)**
- OPENING THRU EXISTING WALL FOR EXHAUST FAN. FRAME OPENING WITH COLD FORM STUDS AND HEADER SISTERED INTO EXISTING STUD WALL. THICKNESS OF HEADERS AND STUDS TO MATCH EXISTING WALL CONSTRUCTION.
 - DEMO EXISTING SLAB, AS REQUIRED, FOR PLUMBING UNDERFLOOR. COORDINATE WITH PLUMBING CONTRACTOR. INFILL WITH NEW CONC. SEE DETAIL 5/S/1.00. THICKNESS OF SLAB TO MATCH (E) SLAB THICKNESS.
 - DOUBLE JOISTS AT KITCHEN HOOD CONNECTION. COORDINATE LOCATION WITH KITCHEN CONTRACTOR. HOOD WEIGHS 650 LBS.
 - CANTILEVER JOISTS TO SUPPORT DUCTWORK. COORDINATE WITH MECH CONTRACTOR.



3 STUD WALL CORNER AND INTERSECTIONS
3/4" = 1'-0"



4 CFS JOIST BEARING AT CFS WALL
3/4" = 1'-0"



5 NEW TO EXISTING SLAB-ON-GRADE CONNECTION
3/4" = 1'-0"

6 COLD FORMED TRACK TO SLAB CONNECTION
3/4" = 1'-0"

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Block Design Firm Registration #184008976-0014
PROJECT #25500535.00

REF. SCALE IN INCHES
PROJECT SCALE IN INCHES



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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FOUNDATION PLAN, ROOF FRAMING PLAN AND DETAILS

SHEET NUMBER:
S1.00

VIEW KEY

1

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

----- EXISTING TO REMAIN

----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALF TONING DOES NOT MODIFY SCOPE.

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
F.E.Q.	FOOD SERVICE CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR

DUCT ABBREVIATION KEY	
ABBR:	DESCRIPTION
EA	EXHAUST AIR
OA	OUTSIDE AIR
RA	RETURN/RELIEF AIR
SA	SUPPLY AIR

SYMBOL LIST - PIPING SYSTEMS			
SYMBOL	DESCRIPTION	° F	FLUID TYPE
DPP	DRAIN - PIPING	120	Water
LIQ	REFRIGERANT LIQUID		
SUC	REFRIGERANT SUCTION	35	Water

SYMBOL LIST - SENSORS	
SYMBOL	DESCRIPTION
①	THERMOSTAT

HVAC ABBREVIATION KEY	
ABBR:	DESCRIPTION:
DN	DOWN
N.C.	NORMALLY CLOSED
TP	TYPICAL

HVAC SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	NATURAL GAS
	PIPE DOWN
	PIPE UP OR UP/DOWN
	SHUTOFF VALVE NORMALLY OPEN
	PRESSURE/TEMPERATURE TEST PLUG
	GAS REGULATOR
	PRESSURE/TEMPERATURE TEST PLUG

- MECHANICAL RENOVATION NOTES:**
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING AND MECHANICAL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
 - EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS.
 - WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

HVAC SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	MANUAL VOLUME DAMPER
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	AIR TERMINAL PROPERTIES SYMBOL
	NECK SIZE/CFM THERMOSTAT

- PIPING GENERAL NOTES:**
- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 - PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
 - INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.
- VENTILATION GENERAL NOTES:**
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
 - UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
 - ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
 - PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
 - EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
 - CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

- MECHANICAL GENERAL NOTES:**
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING AND MECHANICAL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
 - DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS, WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY GREATER NUMBER SHALL GOVERN.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - SEAL ALL WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

HVAC SHEET INDEX	
M0.00	HVAC COVERSHEET
MD1.01	DEMOLITION FLOOR PLAN - HVAC
M1.01	FLOOR PLANS - PIPING & VENTILATION
M2.00	HVAC DETAILS
M2.01	HVAC DETAILS
M3.00	HVAC CONTROLS
M4.00	HVAC SCHEDULES
GRAND TOTAL: 7	

THIS IS A COMBINED VERSION OF THE VENTILATION AND PIPING COVERSHEETS. DELETE UNNEEDED SHEETS AND AVOID DUPLICATING INFORMATION.



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8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
HVAC COVERSHEET

SHEET NUMBER:

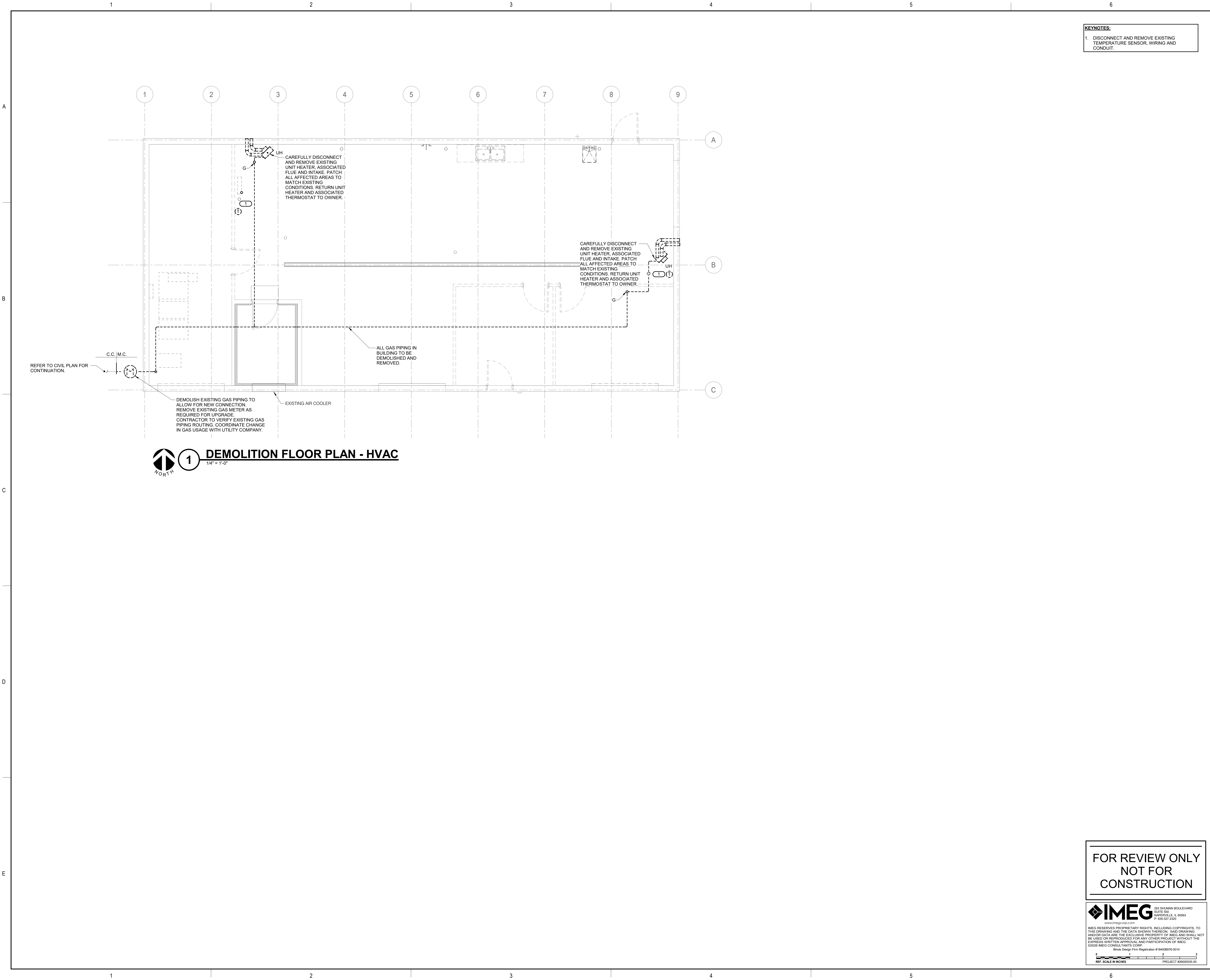
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REF. SCALE IN INCHES PROJECT #20200535.00



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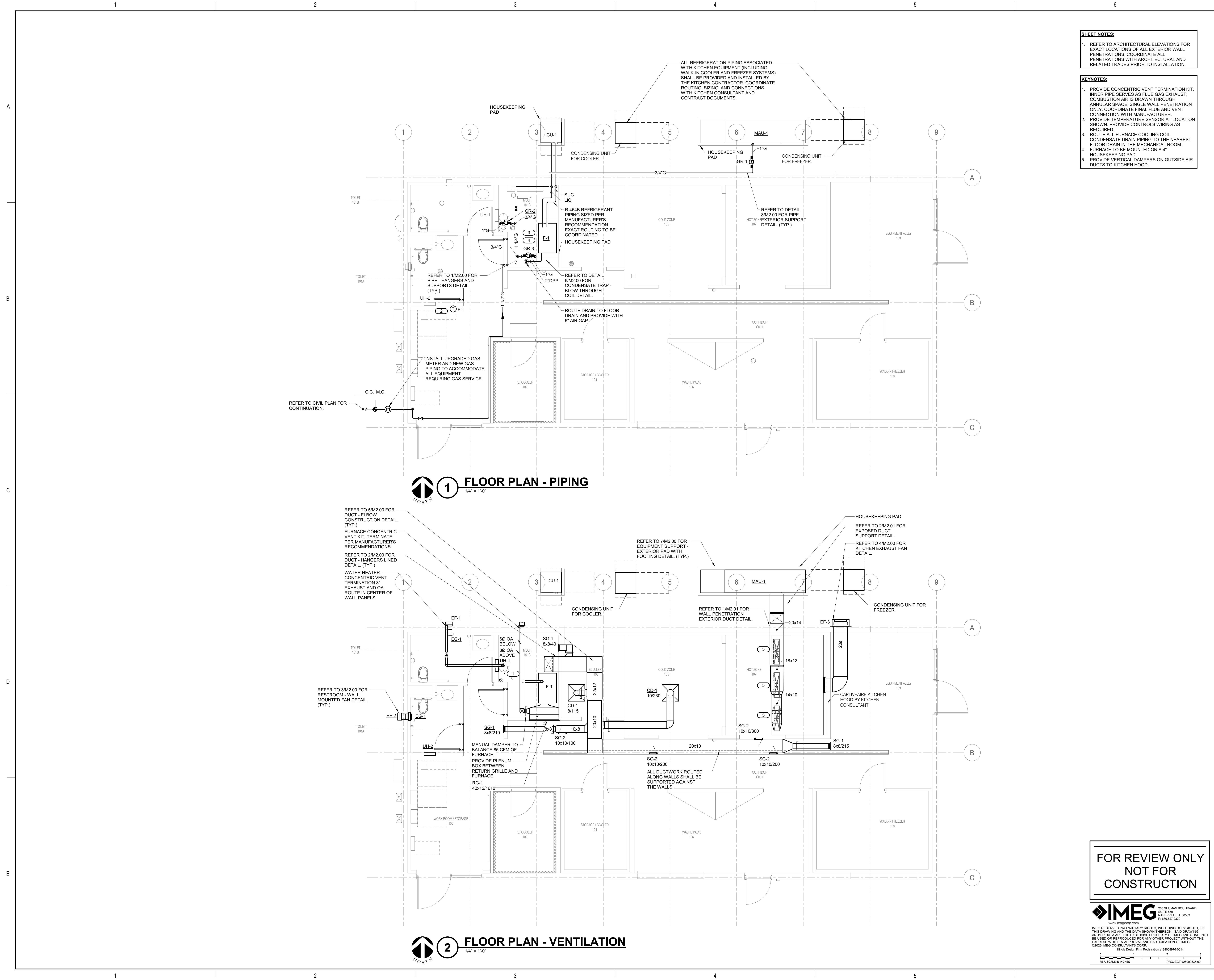
KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
**DEMOLITION FLOOR
PLAN - HVAC**

SHEET NUMBER:
MD1.01



- SHEET NOTES:**
 - REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF ALL EXTERIOR WALL PENETRATIONS. COORDINATE ALL PENETRATIONS WITH ARCHITECTURAL AND RELATED TRADES PRIOR TO INSTALLATION.
- KEYNOTES:**
 - PROVIDE CONCENTRIC VENT TERMINATION KIT. INNER PIPE SERVES AS FLUE GAS EXHAUST; COMBUSTION AIR IS DRAWN THROUGH ANNULAR SPACE. SINGLE WALL PENETRATION ONLY. COORDINATE FINAL FLUE AND VENT CONNECTION WITH MANUFACTURER.
 - PROVIDE TEMPERATURE SENSOR AT LOCATION SHOWN. PROVIDE CONTROLS WIRING AS REQUIRED.
 - ROUTE ALL FURNACE COOLING COIL CONDENSATE DRAIN PIPING TO THE NEAREST FLOOR DRAIN IN THE MECHANICAL ROOM.
 - FURNACE TO BE MOUNTED ON A 4" HOUSEKEEPING PAD.
 - PROVIDE VERTICAL DAMPERS ON OUTSIDE AIR DUCTS TO KITCHEN HOOD.



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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLANS - PIPING & VENTILATION

SHEET NUMBER:
M1.01

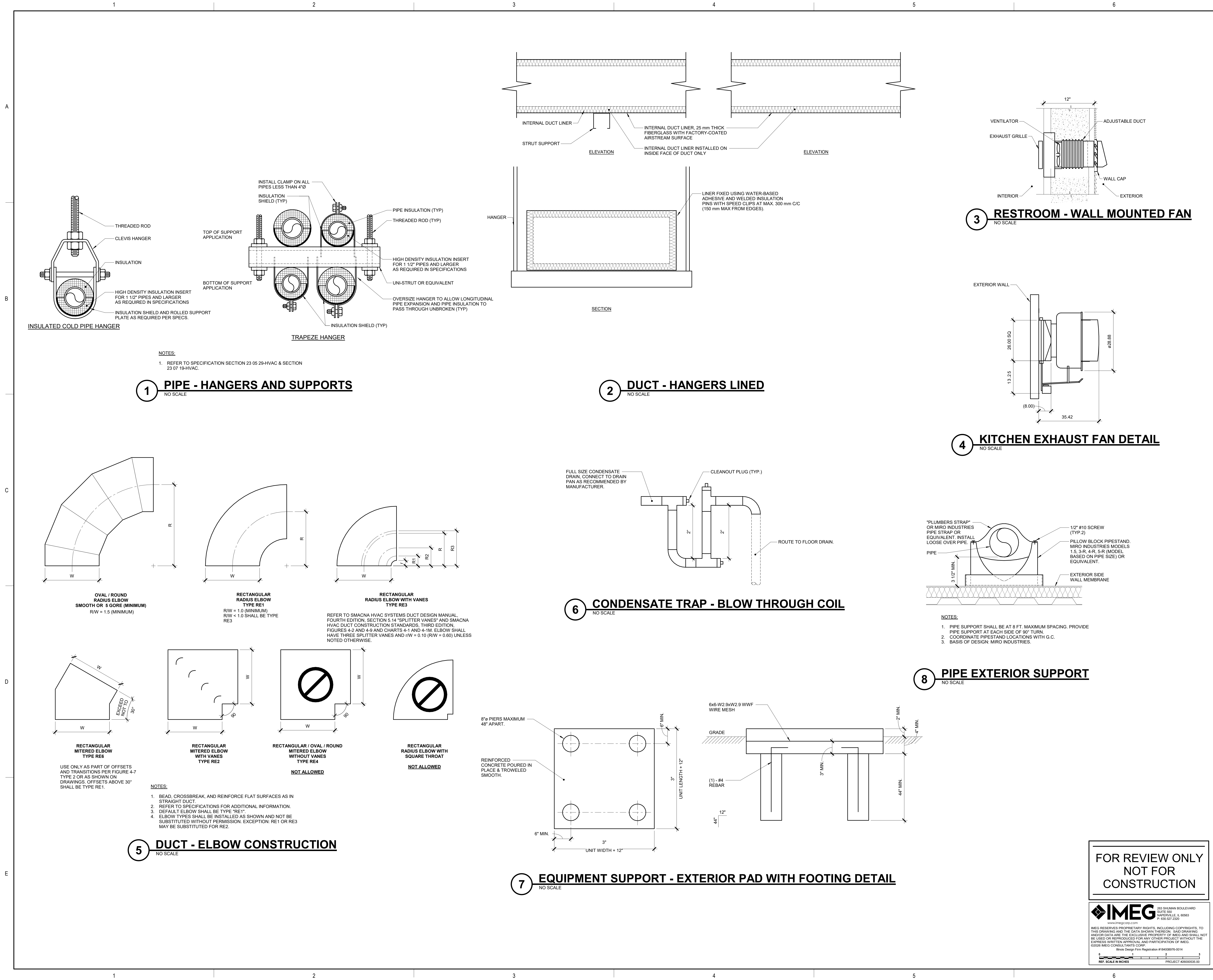
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REF. SCALE IN INCHES PROJECT #26000335-00



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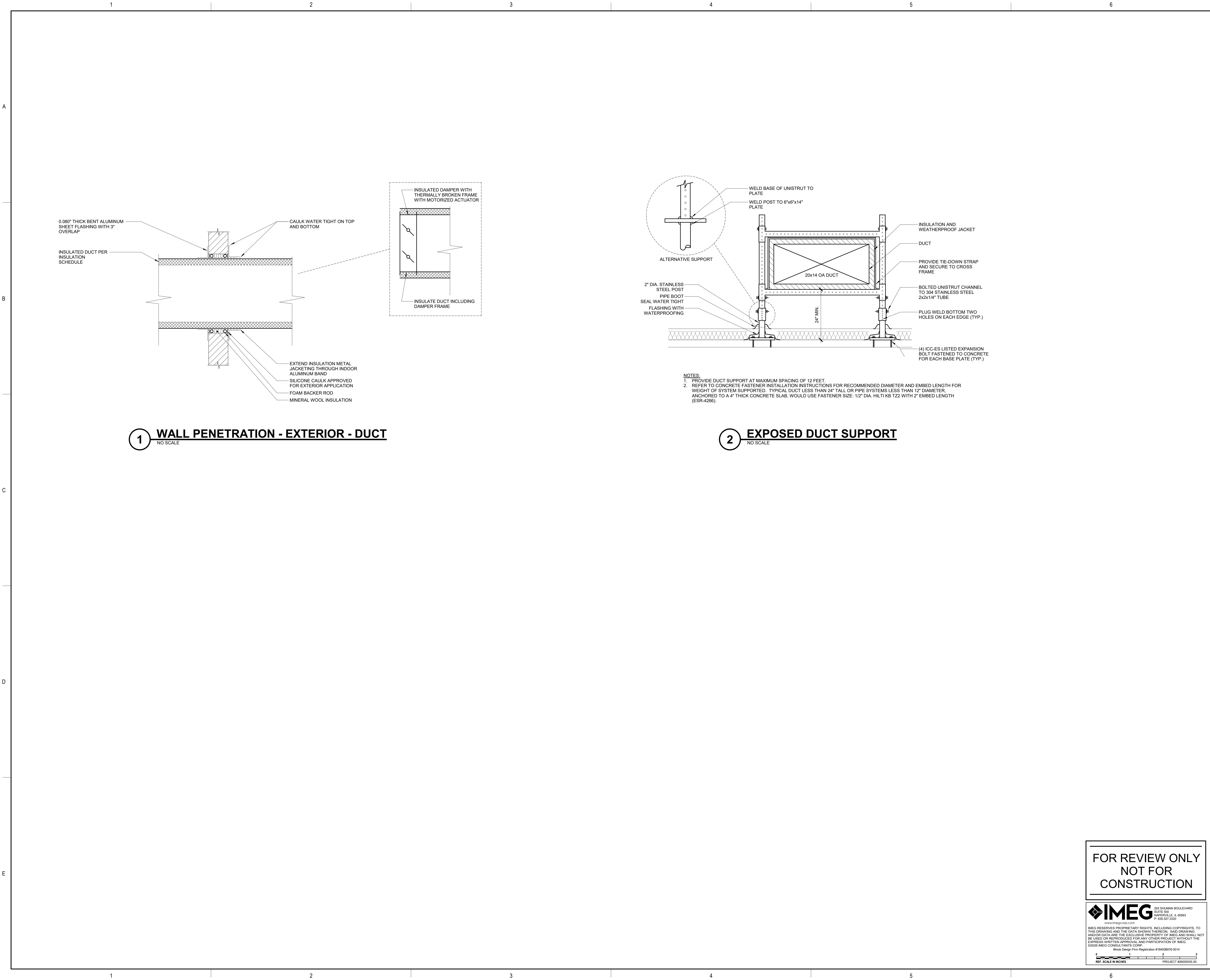
NO.	DESCRIPTION:	DATE:

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:

M2.00

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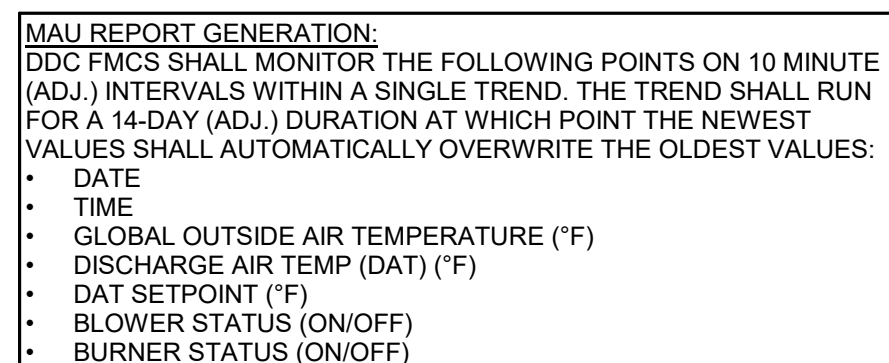
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SHEET TITLE:
HVAC DETAILS

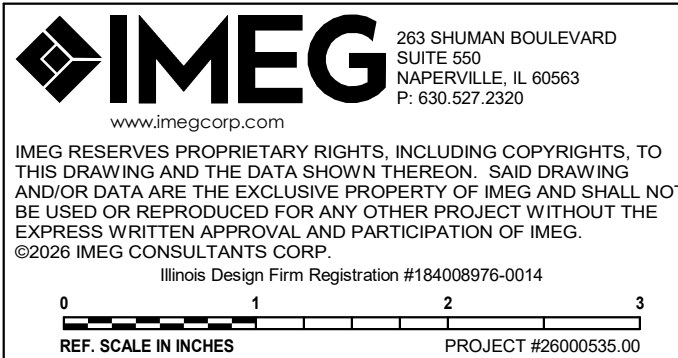
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REF. SCALE IN INCHES PROJECT #26000335-00



FURNACE SHALL CONTROL COOLING OPERATION AS REQUIRED TO IMPROVE LATENT REMOVAL AND MANTAIN SPACE HUMIDITY SETPOINT.



AIR TERMINAL SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	TYPE	MATERIAL	FINISH	FACE SIZE (NOTE 1,2)		BORDER (NOTE 3)	VOLUME DAMPER	MANUFACTURER	MODEL	NOTES
				WIDTH	HEIGHT					
CG-1	PLAQUE	STEEL	WHITE	24"	24"	LAY-IN	No	TITUS	01N1	
EG-1	PLAQUE	STEEL	WHITE	8"	8"	SURFACE MOUNT	Yes	FANTECH	MGE 8	METAL EXHAUST GRILLE,WALL MOUNT, DIRECT DUCT CONNECTION
RG-1	35 DEGREE DEFLECTION	STEEL	WHITE	42"	12"	SURFACE MOUNT	No	TITUS	350	LONG BLADES
SG-1	DOUBLE DEFLECTION	STEEL	WHITE	8"	8"	1 1/4"	No	TITUS	300	LONG FRONT BLADES
SG-2	DOUBLE DEFLECTION	ALUMINUM	WHITE	10"	10"	SURFACE MOUNT	Yes	TITUS	US300FL	

UNIT HEATER SCHEDULE - ELECTRIC (UH)

NOTES:
1. PROVIDE ELECTRIC UNIT HEATER WITH FACTORY CONTROLS AND BAS INTEGRATION.

TAG NAME	AREA SERVED	CONFIGURATION	CFM	STAGES	KW	ELECTRICAL							CONTROL DIAGRAM	MANUFACTURER	MODEL	NOTES
						VOLTS	PH	BY (NOTE A)	DISCONNECT	TYPE (NOTE B)	BY (NOTE A)	SCCR				
UH-1	TOILET 101A	ARCHITECTURAL WALL MOUNT	100	1	4	208	1	MFR	NF	MFR	5,000	4/M3.00	TRANE	UHAA-04	NOTE 1	
UH-2	TOILET 101B	ARCHITECTURAL WALL MOUNT	100	1	4	208	1	MFR	NF	MFR	5,000	4/M3.00	TRANE	UHAA-04	NOTE 1	

CONDENSING UNIT SCHEDULE - COOLING (CU)

NOTES:
1.UNIT SHALL INCLUDE FACTORY ECM inverter-driven compressor.

TAG NAME	SERVICE	TONNAGE IN (lb)	REFRIGERANT	SAT SUC TEMP °F	AMBIENT TEMP °F	NUMBER OF COMPRESSORS	NUMBER OF STAGES	NUMBER OF CIRCUITS	NUMBER OF FANS	RLA (AMP)	ELECTRICAL						MANUFACTURER	MODEL	NOTES		
											MCA	MOCF AMPS	VOLTS	PHASE	DISCONNECT	CONTROLLER/STARTER					
CU-1	F-1	257	R-454B	45	95	1	1	1	1	17.4	24	40	208	1	BY (NOTE A) MFR	TYPE (NOTE B) NF	BT (NOTE A) MFR	SCGR 5000	CARRIER	26VNA160W003	NOTE 1

FURNACE SCHEDULE

NOTES:
1. PROVIDE HIGH EFFICIENCY GAS FURNACE WITH FACTORY CONTROLS AND BAS INTEGRATION. COORDINATE FINAL OPERATION AND OCCUPIED SCHEDULE WITH OWNER.
2. PROVIDE WITH HUMIDITY CONTROL.

TAG NAME	SERVICE	EXT S.P. IN. WG	FAN/BLOWER			HP	RPM	VOLTAGE	PHASE	ELECTRICAL				STAGES	OUTPUT MBH	LAT F°	EVAPORATOR COIL		TOTAL MBH	AMBIENT AIR °F	MANUFACTURER	FURNACE MODEL	EVAPORATOR COIL MODEL	CONTROL DIAGRAM	NOTES
			CFM (HIGH SPEED)	IN. WG	HP					DISCONNECT	BY (NOTE A)	TYPE (NOTE B)	CONTROLLER/STAR TER				EAT DB °F	EAT WB °F							
F-1	BUILDING	0.5	1,625	0.75		1100	115		1	EC	NF	MFR	5000	4	117	57	80	67	120	95	CARRIER	59MN7C120C24-22	CVAVA6024XMA	3/M3.00	NOTES 1, 2

FAN SCHEDULE

NOTES:
1. PROVIDE WITH STANDARD ONE FAN CONTROLLER TO ACHIEVE SEQUENCE OF OPERATION PER M2.01 CONTROL DIAGRAMS.
2. GREASE EXHAUST FAN TO BE GREASE RATED UL 782 ETC.

TAG NAME	SERVICE	DESIGN	CFM	TOTAL S.P. IN. WC	WHEEL DIA	DRIVE	FAN RPM	BACK DRAFT DAMPER TYPE	BHP (NOTE E)	MHP (NOTE E)	VOLTS	PH	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	MANUFACTURER	MODEL	CONTROL DIAGRAM	NOTES
			IN. WG																	
EF-1	TOILET 101A	75	1.36	N/A	DIRECT	3457	GRAVITY	0.09	0.12	120	1	MFR	NF	MFR	ECM	FANTECH	#44860	2/M3.00		
EF-2	TOILET 101B	75	1.36	N/A	DIRECT	3457	GRAVITY	0.09	0.12	120	1	MFR	NF	MFR	ECM	FANTECH	#44860	2/M3.00		
EF-3	HOT ZONE 107	2,637	0.75	16"	DIRECT	1202	GRAVITY	0.66	0.78	120	1	MFR	NF	MFR	ECM	GREENHECK	CUE- 160- VG	1/M3.00	NOTES 1, 2	

MAKE-UP AIR UNIT SCHEDULE (MAU)

NOTES:
1. PROVIDE FACTORY CONTROLS WITH BACNET COMPATIBILITY FOR BAS INTEGRATION. UNIT TO OPERATE IN COORDINATION WITH EXHAUST SYSTEMS. FINAL AIRFLOW, DISCHARGE AIR TEMPERATURE, AND OCCUPIED SCHEDULE TO BE COORDINATED WITH OWNER.

TAG NAME	LOCATION	HEATING SECTION										COOLING SECTION										ELECTRICAL										FILTER	
		FAN		MOTOR		MBH		REFRIGERATION		MBH		EAT		LAT		DISCONNECT		CNTLR/STARTER		EM PWR	FINAL A.P.D. IN. W.G.	CONTROL DIAGRAM	MANUFACTURER	MODEL	NOTES								
		CFM	EXT S.P. IN. WG	DRIVE	HP	INPUT	OUTPUT	TURN DOWN	INLET PSIG	TYPE	EBR	FLUID TYPE	TOTAL	SENSIBLE	DB °F	WB °F	DB °F	WB °F	HP							VOLTS	PH	BY [A]	TYPE [B]	BY [A]	TYPE [C]	SCCR	
MAU-1	HOT ZONE	2,537	1	DIRECT	1.5	238.3	219.2	1	0.5	R-454B	16.35	R-454B	96.7	68.1	95	78	68	68	68	1	208	3	MFR	NF	MFR	VFD	5,000	No	1.95	1/M3.00	GREENHECK	DGX-P116-H12-D1-8	NOTE 1

GAS REGULATOR SCHEDULE

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
GR-1	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2PSI INLET PRESSURE, 7" - 10" OUTLET PRESSURE, 180 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 27 CFH.	FISHER, ITRON, SENSUS, MAXITROL
GR-2	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2PSI INLET PRESSURE, 7" - 10" OUTLET PRESSURE, 180 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 24 CFH.	MAXITROL VLIMITER OR APPROVED EQUIVALENT
GR-3	PROVIDE GAS REGULATOR WITH VENT LIMITING DEVICE. GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2PSI INLET PRESSURE, 7" - 10" OUTLET PRESSURE, 150 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 20 CFH. PROVIDE GAS REGULATOR WITH VENT LIMITING DEVICE.	MAXITROL VLIMITER OR APPROVED EQUIVALENT

SCHEDULE GENERAL...

[A] DISCONNECT AND CNTLR/STARTER FURNISHED AND INSTALLED BY: MFR = MANUFACTURER EC = ELECTRICAL CONTRACTOR MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR TCC = TEMPERATURE CONTROL CONTRACTOR
[B] DISCONNECT TYPE: CB = CIRCUIT BREAKER F = FUSED NF = NON-FUSED PLUG = PLUG AND CORD
[C] CONTROLLER STARTER TYPE: FV = FULL VOLTAGE WYE = WYE-DELTA SS = SOLID STATE (SOFT START) MS = MANUAL STARTER VFD = VARIABLE FREQUENCY DRIVE VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS ECM = ELECTRONICALLY COMMUTATED MOTOR NOTE: PROVIDE SHAFT GROUNDING ON MOTORS DRIVEN BY A VFD AS REQUIRED PER SPECIFICATIONS 22 05 13 AND 23 05 13.
[D] RPM LIMITATION FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE. WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
[E] HORSEPOWER LIMITATION NO EQUIPMENT SHALL BE SELECTED ABOVE 80% OF MOTOR NAME PLATE RATING.
[F] RPM DEVIATION MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
[G] CURB / PAD TYPE: STD = STANDARD CURB SAC = SOUND ATTENUATOR CURB CONC = CONCRETE BASE (HOUSEKEEPING PAD)
[G] CURB / PAD BY: MFR = MANUFACTURER MC = MECHANICAL CONTRACTOR GC = BY GENERAL CONTRACTOR
[H] CONTROL / SENSOR TYPE 1 = SENSOR ONLY 2 = SENSOR WITH ADJUSTMENT 3 = SENSOR WITH OVERRIDE 4 = SENSOR WITH ADJUSTMENT AND OVERRIDE.



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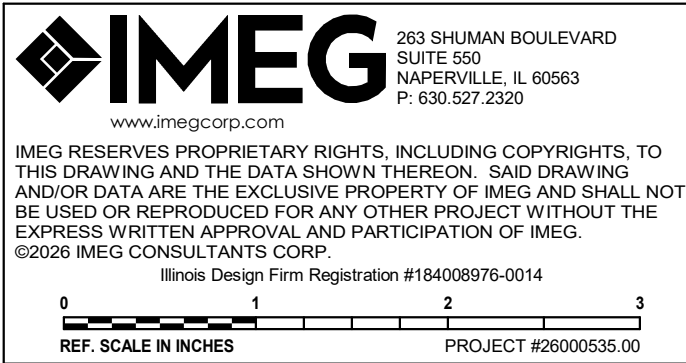
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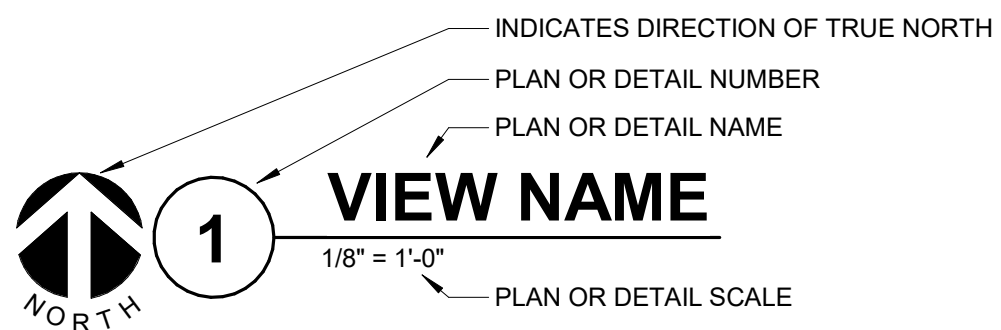
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VIEW KEY

1 KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
----- NEW
----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

----- EXISTING TO REMAIN
----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALF TONING DOES NOT MODIFY SCOPE.

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
F.E.Q.	FOOD SERVICE CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR

SYMBOL LIST - PLUMBING SYSTEMS

SYMBOL	DESCRIPTION
CW	COLD WATER - POTABLE
G	NATURAL GAS
GSAN	SANITARY DRAINAGE - GREASE LADEN
GV	GREASE VENT
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
SAN	SANITARY DRAINAGE
V	VENT
W	SERVICE WATER - POTABLE

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
BFP	BACKFLOW PREVENTER
E	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
L or LAV	LAVATORY
MB	MOP SINK
SK	SINK
TD	TRENCH DRAIN
TYP	TYPICAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING AND MECHANICAL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
- EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS.
- WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	CW	HW	SAN	VENT
FD-1	FLOOR DRAIN			4"	2"
FS-1	FLOOR SINK			4"	2"
HD-1	HUB DRAIN			4"	2"
L-1	LAVATORY (ACCESSIBLE)	1/2"	1/2"	1 1/2"	1 1/2"
WC-1	WATER CLOSET (ACCESSIBLE)	1 1/2"	-	4"	2"

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 5 3874.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22.05.05 FOR ADDITIONAL DEMOLITION INFORMATION.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22.05.05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING AND MECHANICAL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
- DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS, WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/GREATER NUMBER SHALL GOVERN.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- SEAL ALL WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING SHEET INDEX

P0.00	PLUMBING COVERSHEET
PD1.01	DEMOLITION FLOOR PLANS - PLUMBING
P1.01	FLOOR PLANS - PLUMBING
P2.00	PLUMBING DETAILS
P3.00	PLUMBING MATERIAL LIST
GRAND TOTAL: 5	

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT PERMITTED IN NON-CONDITIONED OR HIGH-HUMIDITY SPACES (E. G., MECHANICAL ROOMS, EXTERIOR, ATTICS, AND AHU SUPPLY/RETURN AIR TUNNELS). AHU TUNNELS SHALL NOT BE CONSIDERED CONDITIONED SPACES.

SYMBOL		PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
				< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
22 PLUMBING - WASTE									
GSAN	SANITARY DRAINAGE - GREASE LADEN	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
GV	GREASE VENT	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION
SAN	SANITARY DRAINAGE	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
V	VENT	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION
22 PLUMBING - WATER									
CW	COLD WATER - POTABLE	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	
HW	HOT WATER - POTABLE	A (GlsFbr)	1"	1"					
HWC	HOT WATER CIRCULATING - POTABLE	A (GlsFbr)	1"	1"	1"	1"	1"	1"	
W	SERVICE WATER - POTABLE	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1"	

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REF. SCALE IN INCHES 0 1 2 3 PROJECT #26000335.00

McHenry County College

Student Farm Renovations

8900 Northwest Hwy #14, Crystal Lake, IL 60012

DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PLUMBING
COVERSHEET

SHEET NUMBER:

P0.00



ITEM NO.	DESCRIPTION	FURNISHED/ INSTALLED BY (NOTE 7)	CW	HW 140°F	SAN	INDIRECT WASTE (W)	VENT	REMARKS
FEQ-03	CHILLER/FREEZER, BLAST	F.E.Q	-	-	-	0.75"	2"	NOTES 1, 2, 3, 6
FEQ-13	KETTLE/STEAM JACKETED	F.E.Q	0.5"	0.5"	-	-	-	NOTES 2, 3, 6
FPL-01	ONE COMPARTMENT SINK	F.E.Q	-	-	3.5"	-	1 1/2"	NOTES 1, 2, 3, 4, 6, 7
FPL-02	THREE COMPARTMENT SINK	F.E.Q	-	-	3.5"	-	1 1/2"	NOTES 1, 2, 3, 4, 6, 7
FPL-X01	EXISTING 2 COMPARTMENT SINK	F.E.Q	-	-	-	-	1 1/2"	NOTES 2, 3, 4, 6, 7
FPL-X02	EXISTING PRE-RINSE FAUCET, WALL MOUNT	F.E.Q	.75"	.75"	-	-	-	NOTES 2, 3, 4, 6, 7
FPL-03	PRE-RINSE FAUCET, WALL MOUNT	F.E.Q	0.5"	0.5"	-	-	-	NOTES 2, 3, 4, 5, 6, 7
FPL-04	PRE-RINSE FAUCET, WALL MOUNT	F.E.Q	.75"	.75"	-	-	-	NOTES 2, 3, 4, 6, 7
FPL-05	HAND SINK, WALL MOUNT	F.E.Q	.75"	.75"	2"	-	1 1/2"	NOTES 2, 3, 4, 6, 7, 8
FPL-06	MOP SINK STORAGE CABINET	F.E.Q	0.5"	0.5"	2"	-	2"	NOTES 2, 3, 4, 6, 7
FPL-07	FLOOR TROUGH	F.E.Q	-	-	4"	-	2"	NOTES 1, 2, 3, 4, 6, 7
FPL-08	FAUCET, SERVICE SINK	F.E.Q	0.5"	0.5"	-	-	-	NOTES 2, 3, 4, 6, 7
FPL-09	COILED HOSE	F.E.Q	-	-	-	-	-	NOTES 2, 3, 6

1. P.C. SHALL ROUTE ALL INDIRECT WASTE PIPING AS PER FOOD SERVICE DRAWINGS.
2. P.C. SHALL MAKE FINAL CONNECTION TO EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR ALL CONNECTION REQUIREMENTS.
3. COORDINATE ALL REQUIREMENTS WITH FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR SHALL REQUIREMENT FOOD SERVICE DRAWINGS AND SHALL COORDINATE ANY DISCREPANCIES BETWEEN FOOD SERVICE DRAWINGS AND PLUMBING DRAWINGS.
4. 1/2" CW AND HW ONLY APPLIES TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE MINIMUM 3/4" UNLESS NOT OTHERWISE. PROVIDE ALL REQUIRED CUOPER LINES DOWNSTREAM OF SHUTOFF VALVES USED TO MATCH CONNECTION TO EQUIPMENT.
5. CONTRACTOR TO CONFIRM WHETHER PRE-RINSE FAUCET IS PROVIDED WITH INTERNAL AIR GAP FITTING OR APPROVED BACKFLOW PREVENTION DEVICE. IF NOT, P.C. TO PROVIDE BACKFLOW PREVENTER DEVICE (BFP-2) AT THE FAUCET CONNECTION.
6. F.E.Q. STANDS FOR FOOD SERVICE EQUIPMENT CONTRACTOR AND P.C. STANDS FOR PLUMBING CONTRACTOR.
7. F.E.Q. TO PROVIDE SINK, TRIM, AND TWIST WASTE/LEVER FOR INSTALLATION BY P.C.. P.C. TO PROVIDE THE TRAPS, ACCESSORIES, MIXING VALVE (MV-1), AND PIPING TO SERVE EQUIPMENT.
8. F.E.Q. TO PROVIDE HAND SINKS AND TRIM. PLUMBING CONTRACTOR TO PROVIDE THE TRAPS, ACCESSORIES, MIXING VALVE, AND PIPING TO SERVE SINK.

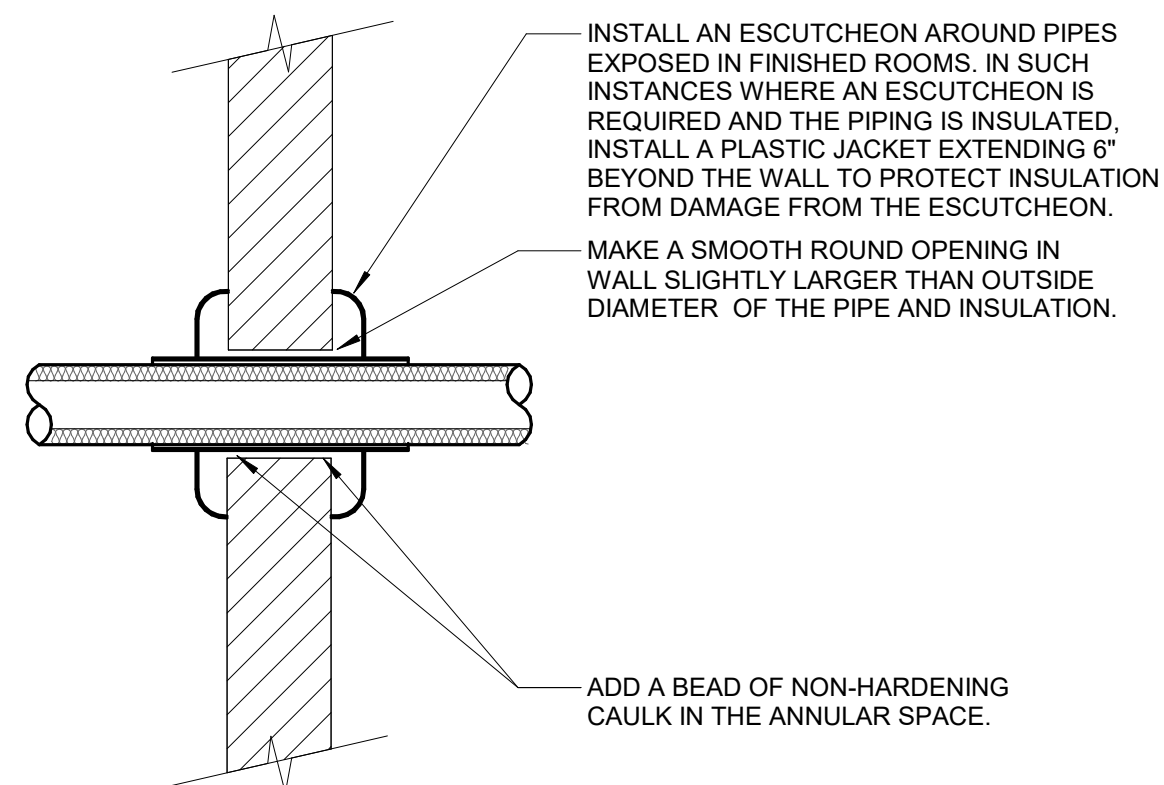
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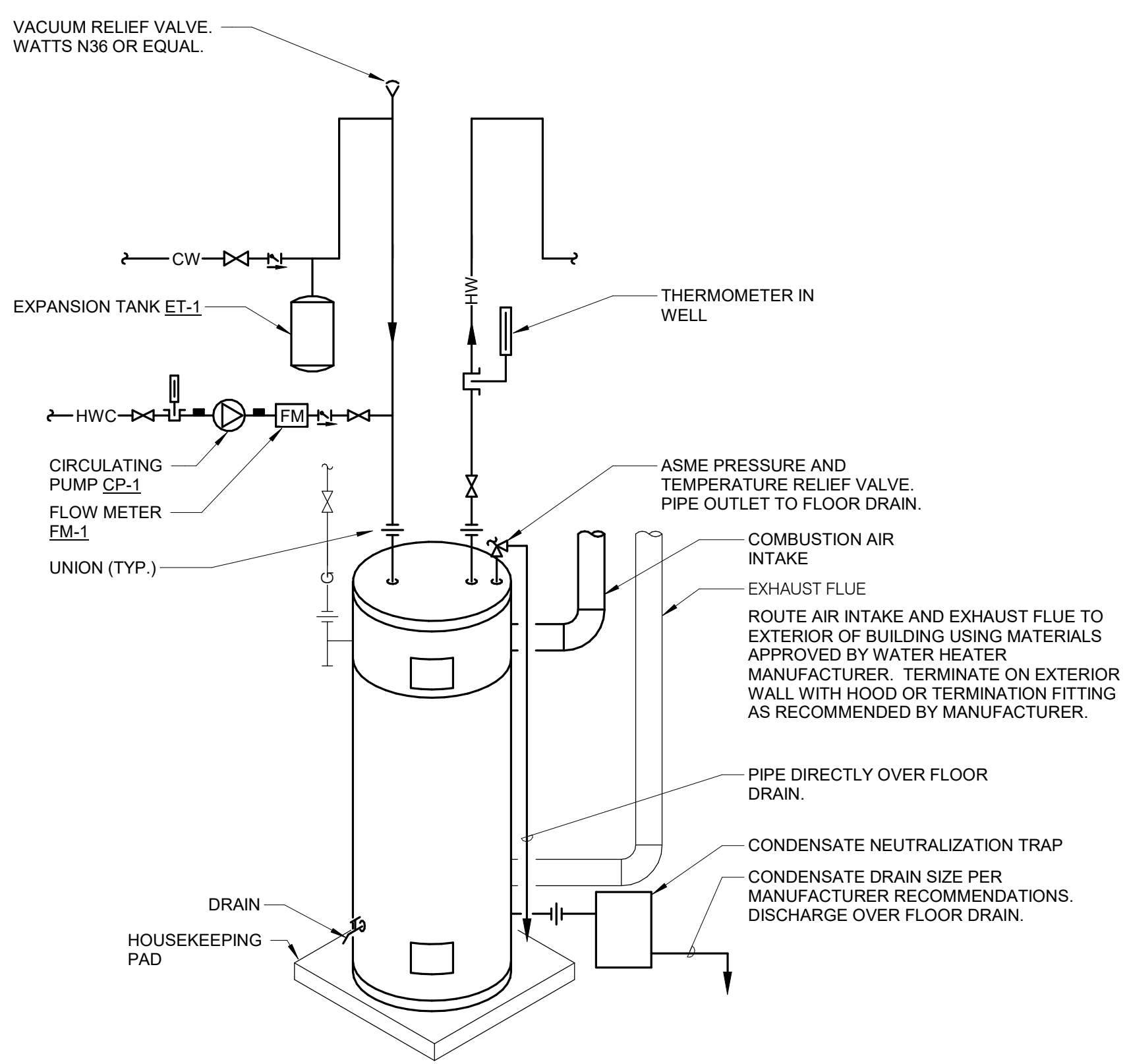
Illinois Design Firm Registration #154009576-0014

0 1 2 3 4 5 6 7 8 9 10
REF. SCALE IN INCHES PROJECT #26050055.00



NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTION 22 05 29 - PLUMBING FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION 22 05 29 - PLUMBING FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.



INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
**MAXIMUM ALLOWABLE PIPE LENGTH FROM THE
 NEAREST SOURCE OF HEATED WATER (CIRCULATED
 TEE FITTING) TO THE TERMINATION OF THE FIXTURE
 SUPPLY PIPE.**

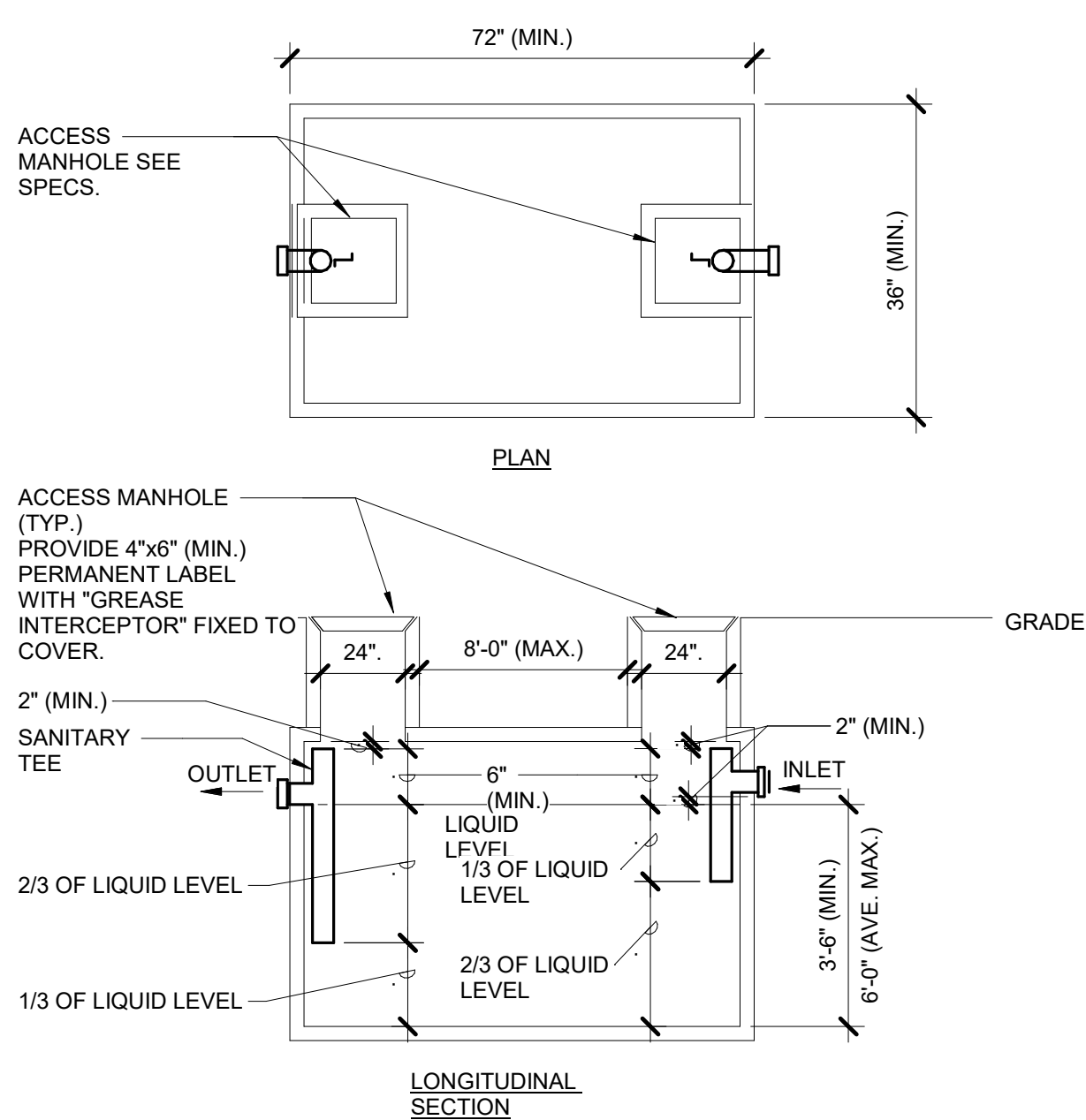
**TABLE C404.5.1
 PIPING VOLUME AND MAXIMUM PIPING LENGTHS**

NOMINAL PIPE SIZE (inches)	VOLUME (liters per foot length)	MAXIMUM PIPING LENGTH (feet)	Maximum Piping Length (feet) Primary lavatory faucets	Other fixtures and appliances
1/4	0.33	6	50	
5/16	0.5	4	50	
3/8	0.75	3	50	
1/2	1.5	2	43	
5/8	2	1	32	
3/4	3	0.5	21	
7/8	4	0.5	16	
1	5	0.5	13	
1 1/4	8	0.5	8	
1 1/2	11	0.5	6	
2 or larger	18	0.5	4	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 liquid ounce = 0.030 L,
1 gallon = 128 ounces.

Diagram illustrating the installation of a single-lever faucet. The diagram shows the faucet assembly with various components labeled and instructions provided:

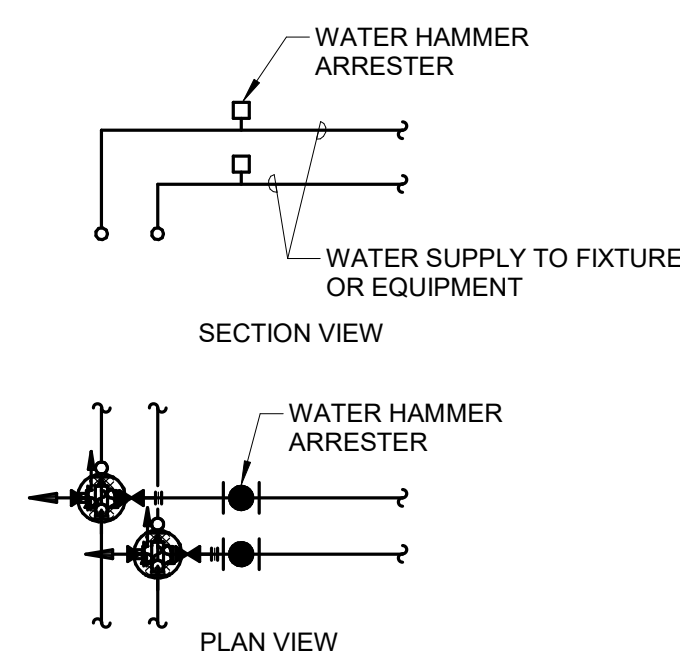
- PROVIDE BALANCING VALVE IN ACCESSIBLE LOCATION
- ROUTE TEMPERED WATER TO FIXTURE
- ROUTE HOT WATER CIRCULATION FROM TEE FITTING CONCEALED IN WALL. MAXIMUM LENGTH FROM HWC CONNECTION TO FIXTURE PER IBC TABLE C404.5.1.
- HW ANGLE STOP
- MOUNT MIXING VALVE AS CLOSE TO FIXTURE TRIM AS POSSIBLE.
- INSTALL ENCLOSURE IF CALLED FOR IN MATERIAL LIST.
- HWC
- HW
- CW
- HOT WATER FIXTURE REFER TO PLANS AND MATERIAL LIST FOR TYPE
- PROVIDE SEPARATE CW AND HW SUPPLIES TO FIXTURE IF APPLICABLE.
- CW ANGLE STOP.
- SINGLE**



NOTES:

1. DETAIL IS FOR GENERAL CODE COMPLIANCE ONLY. REFER TO PLAN FOR ACTUAL PROPOSED EQUIPMENT INFORMATION AND DEPARTMENT OF COMMERCE APPROVAL DATA.

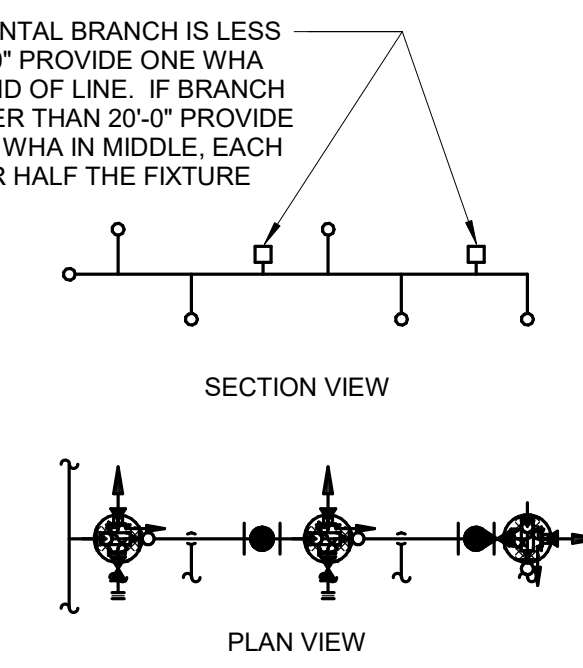
PROVIDE WATER HAMMER ARRESTER (WHA-#) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTER DESCRIPTION.



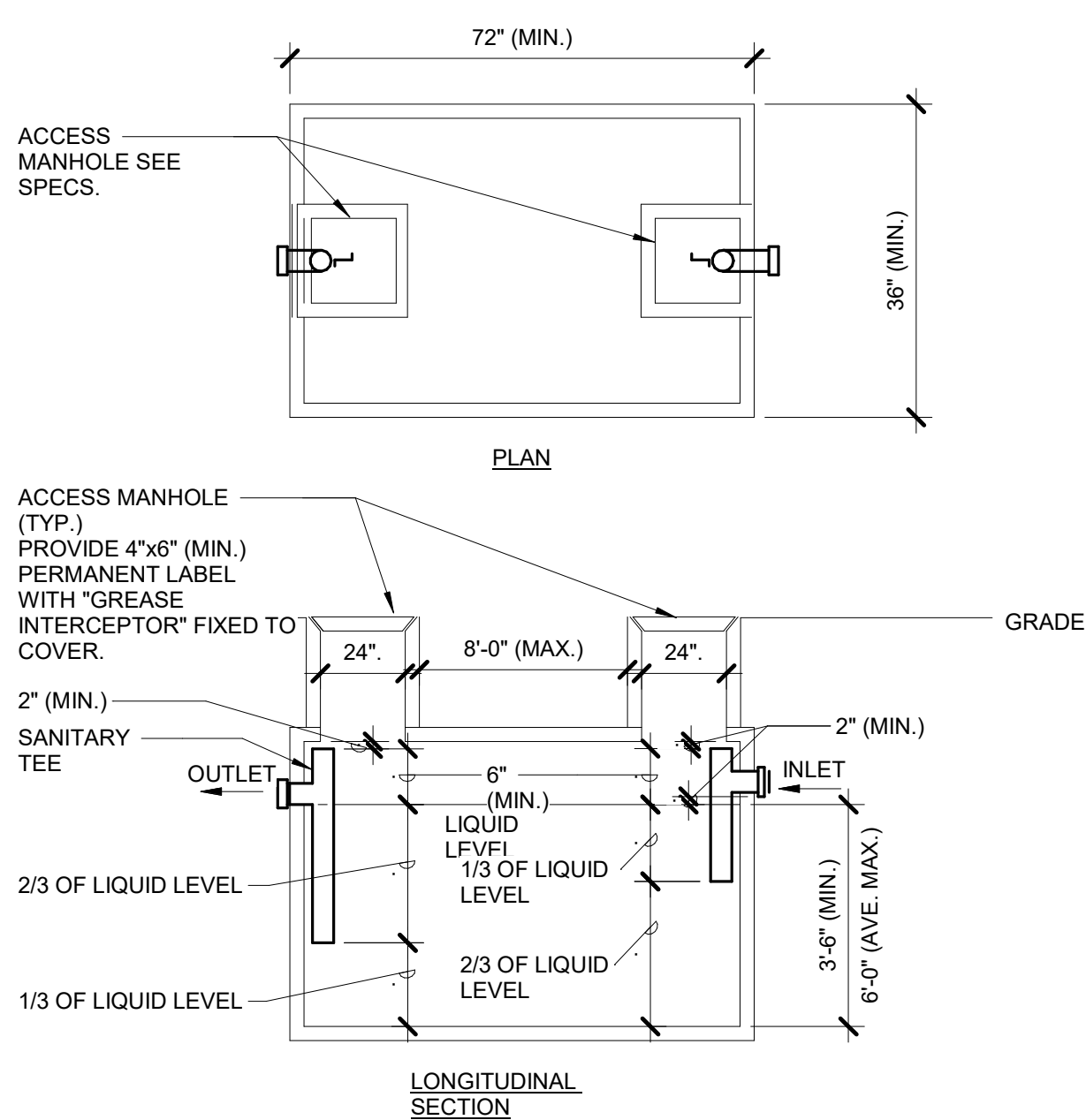
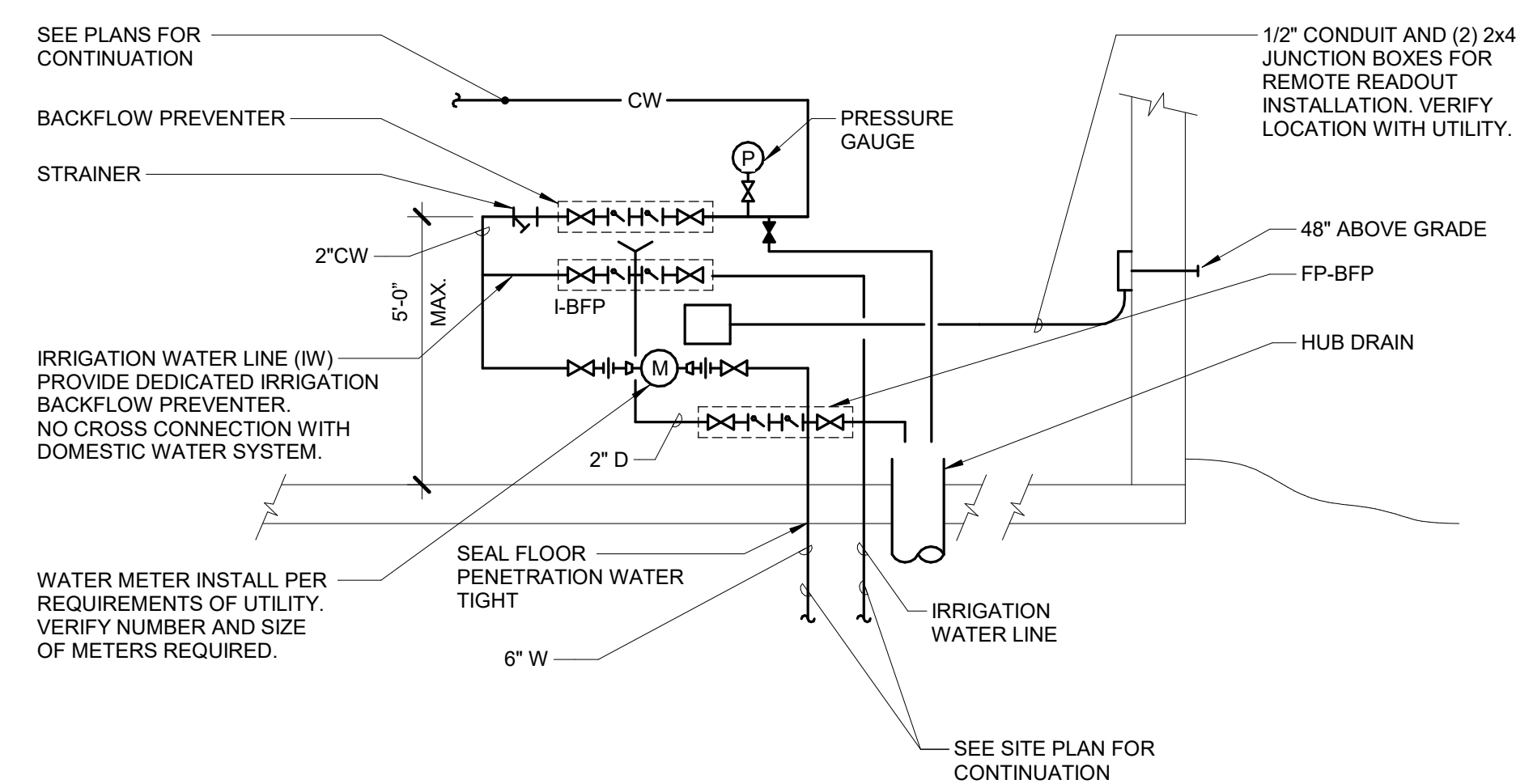
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

IF HORIZONTAL BRANCH IS LESS THAN 20'-0" PROVIDE ONE WHA AT THE END OF LINE. IF BRANCH IS GREATER THAN 20'-0" PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS.



FIXTURE UNIT CALCULATION		
FIXTURE	COLD	HOT
WATER CLOSET (F.V.)	10	--
WATER CLOSET (TANK)	5	--
URINAL	5	--
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATH/TUB	2	3
DRINKING FOUNTAIN	2	-
KITCHEN SINK	2	2
ICE MAKER / BEVERAGE	1	--



NOTES:

1. DETAIL IS FOR GENERAL CODE COMPLIANCE ONLY. REFER TO PLAN FOR ACTUAL PROPOSED EQUIPMENT INFORMATION AND DEPARTMENT OF COMMERCE APPROVAL DATA.

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REF. SCALE IN INCHES PROJECT #26000535.00

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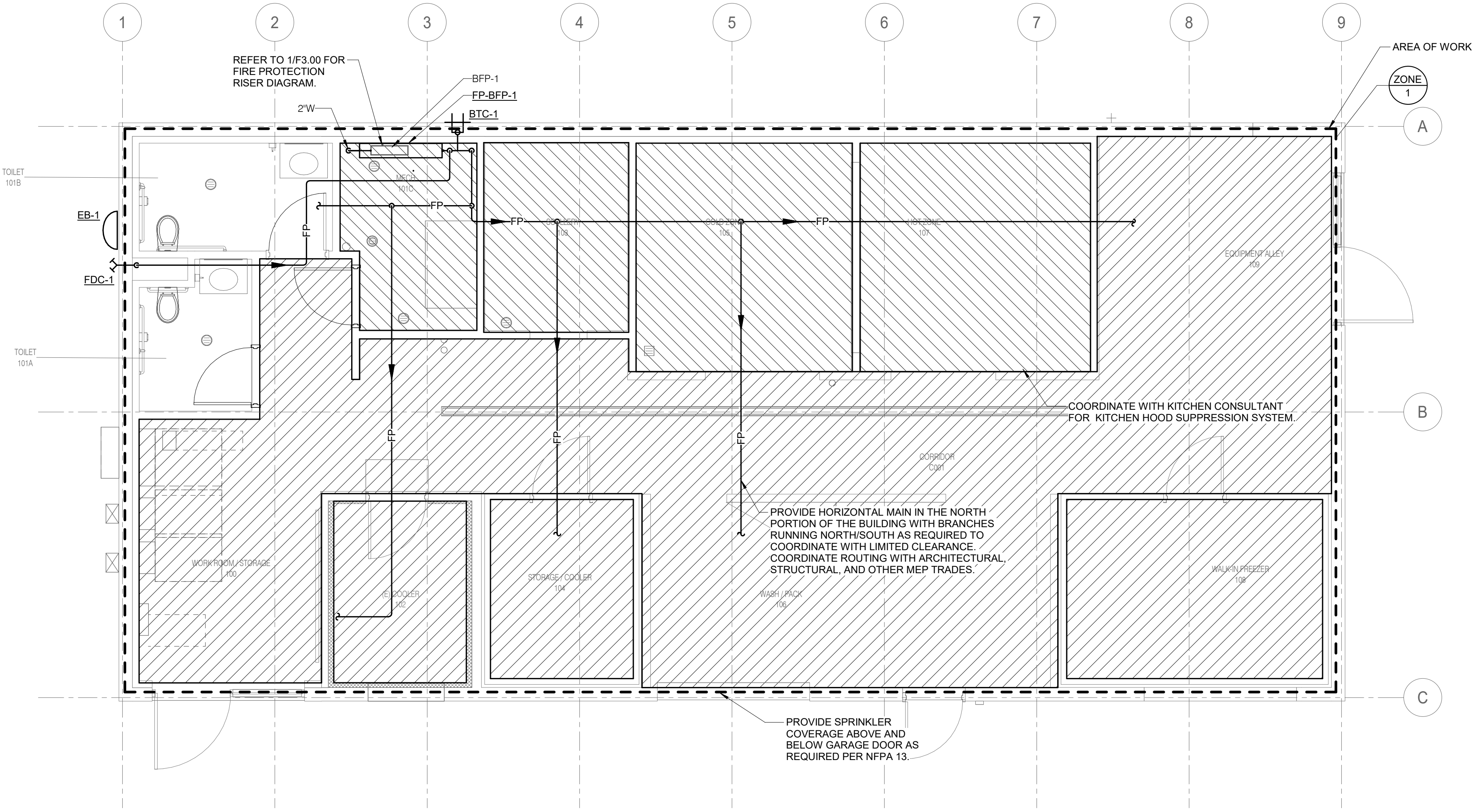
A

B

C

D

E



1

LEVEL 1 - FLOOR PLAN - FIRE PROTECTION

1/4" = 1'-0"

GENERAL SHEET NOTES:

1. ROUTE AND SIZE SPRINKLER PIPING PER NFPA 13. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FINAL DESIGN, LAYOUT AND QUANTITY OF SPRINKLER HEADS.
2. PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW DUCTWORK AS REQUIRED BY NFPA 13.
3. REFER TO 1/F2.00 FOR PIPE SUPPORT - FIRE PROTECTION DETAIL.
4. REFER TO 2/F2.00 FOR SPRINKLER HEAD MOUNTING DETAIL.
5. REFER TO 3/F2.00 FOR PENDENT SPRINKLER DETAIL.



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NEW VENTURE ADVISORS
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B

C

D

E

McHenry County College

Student Farm Renovations

8900 Northwest Hwy #14, Crystal Lake, IL 60012

DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - FIRE PROTECTION

SHEET NUMBER:
F1.01

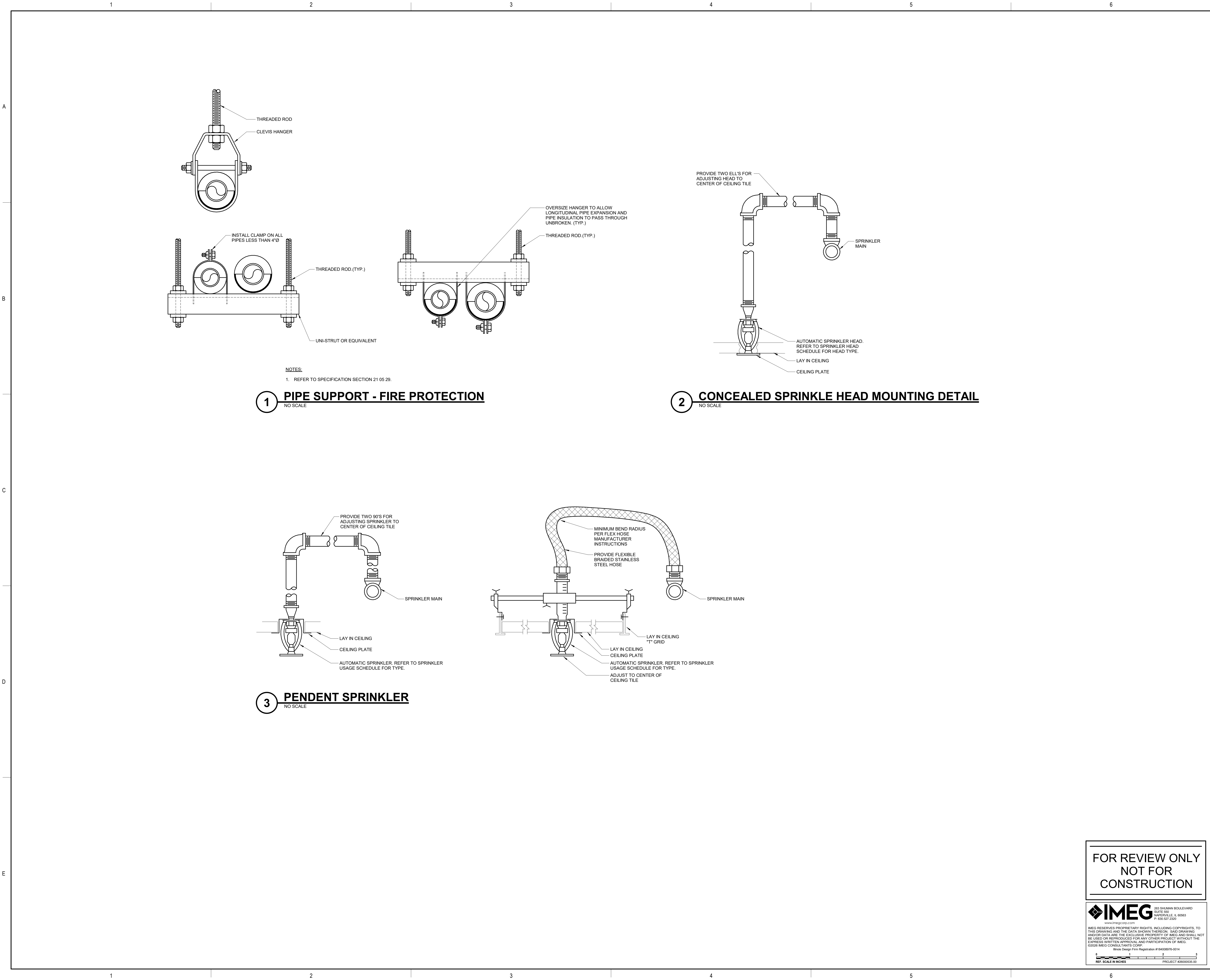
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McHenry County College
Student Farm Renovations
8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

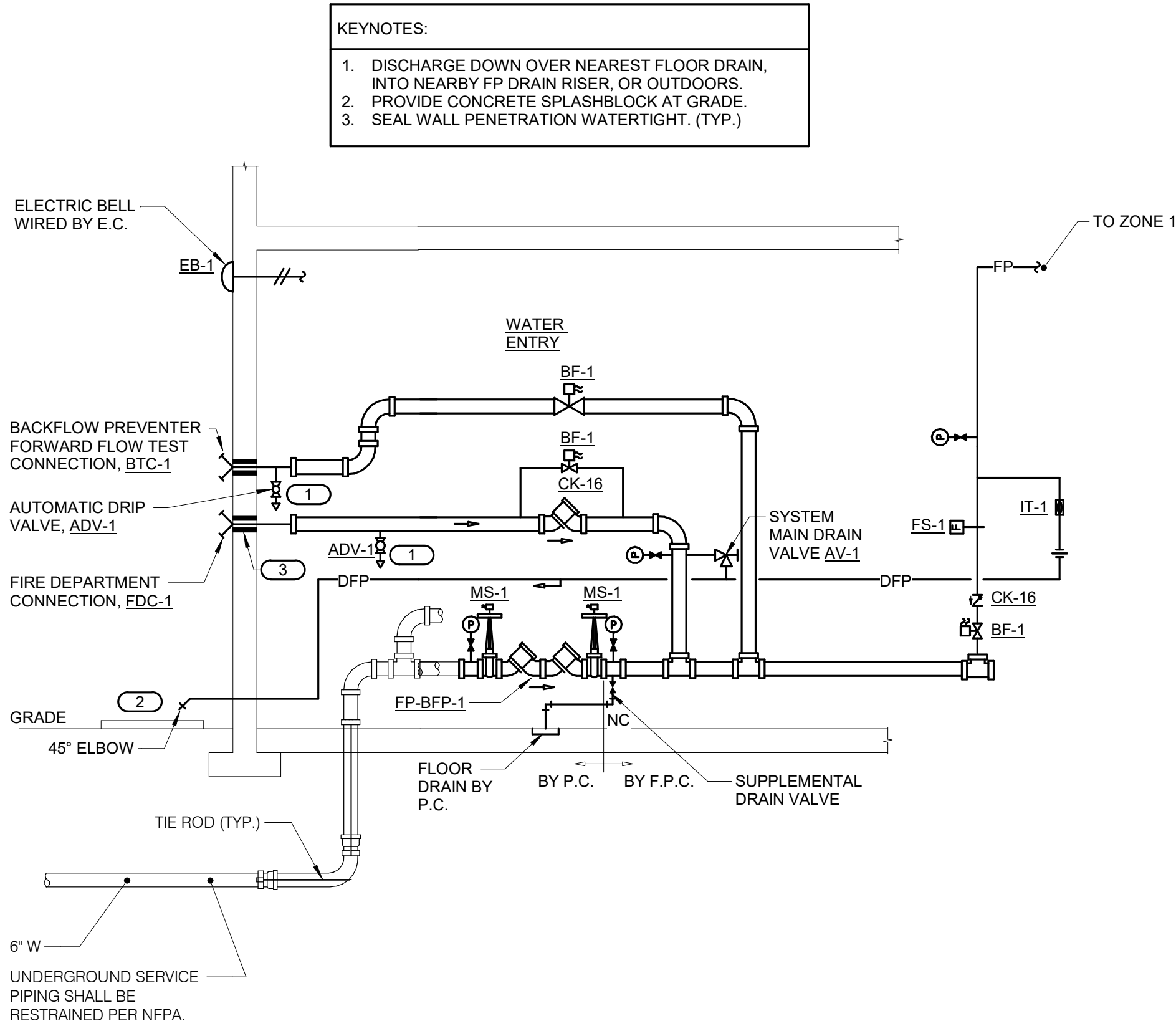
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
**FIRE PROTECTION
DETAILS**

SHEET NUMBER:
F2.00

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FIRE PROTECTION MATERIAL LIST		
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
ADV-1	AUTOMATIC DRIP VALVE, FOR USE ON INLET SIDE OF FDC OR PUMPER CONNECTION, 175 PSI, BRASS OR BRONZE BODY, STAINLESS STEEL OR BERYLLIUM COPPER SPRING AND RETAINING RING, MIN. CLOSING PRESSURE 7 PSI WITH INCREASING PRESSURE, MIN. OPENING PRESSURE 5 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET, VALVE ORIENTATION SHALL BE INSTALLED ACCORDING TO MFR. RECOMMENDATIONS, UL.	VIKING B-1, TYCO AD-2, RELIABLE MODEL C
AV-1	ANGLE VALVE, 1/2" TO 2", 175 PSI, RISING STEM, BRASS/BRONZE BODY, BRASS/BRONZE BONNET, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED, UL.	UNITED BRASS WORKS 126SUL, NIBCO T-301-W, FPPI 06-600
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WW/P, GROOVED TYPE, DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL/FM.	VICTAULIC (SERIES 705), TYCO (BFV-300), KENNEDY (G300), RELIABLE (REL-BFG-300), NIBCO (GD-4765-8N)
BTC-1	LUGGED OR WAFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.	POTTER ROEMER 5864, CROKER 6807, GUARDIAN SERIES 6744-6746
BTC-1	FLUSH FOUR WAY BACKFLOW PREVENTOR TEST OUTLET CONNECTION, HORIZONTAL ORIENTATION, CAST BRASS OR DUCTILE IRON BODY WITH POLISHED CHROME FINISH, 6" INLET WITH FOUR 2-1/2" OUTLETS, BRASS NON RISING STEM HOSE VALVES, 3" FEMALE NPT INLET x 2-1/2" MALE HOSE THREAD OUTLETS, CAPS AND CHAINS, WALL PLATE WITH SAME FINISH AS BODY LABELED "BACKFLOW TEST CONNECTION".	POTTER ROEMER 5864, CROKER 6807, GUARDIAN SERIES 6744-6746
CK-16	SWING CHECK VALVE, 300 PSI WW/P, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER FACED CLAPPER, BRASS SEAT RING, ACCESS COVER, 1/2" OR 3/4" TAPPED BOSSSES, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, UL/FM.	VIKING (G-1), TYCO (CV-1F)
EB-1	FLANGED TYPE IS ACCEPTABLE PROVIDED VALVE HAS THE FEATURES LISTED ABOVE.	POTTER PBA120, SYSTEM SENSOR SSV, ARGCO.
EB-1	FIRE SPRINKLER ELECTRIC BELL - 10" GONG SIZE, RATED FOR INDOOR OR OUTDOOR USE, WEATHERPROOF RED STEEL COVER AND BACKBOX, 120VAC, UL.	POTTER PBA120, SYSTEM SENSOR SSV, ARGCO.
FDC-1	EXPOSED STORZ FIRE DEPT. CONNECTION INLET CONNECTION, 5" FEMALE NPT OUTLET x 5" STORZ INLET, INLET SCREEN, 30 DEGREE ANGLE BODY STYLE, ALUMINUM LOCKING CAPS WITH KEY/WRENCH LOCK, BRASS WALL PLATE LABELED "AUTO SPKR"	FDC: POTTER ROEMER 5795/5799, CROKER SERIES 6303-6365, GUARDIAN 6624-6629
FDC-1	CONTRACTOR TO COORDINATE PURCHASE OF LOCKING CAPS WITH LOCAL FIRE DEPARTMENT.	LOCKING CAP: KNOX COMPANY [5001] 5002
FP-BFP-1	DOUBLE CHECK BACKFLOW PREVENTER, LISTED FOR USE IN FIRE PROTECTION SYSTEM, 175 PSI WW/P AT 33°F TO 140°F, LEAD FREE, STAINLESS STEEL CONSTRUCTION, SAME SIZE AS PIPE 6", NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, SPRING-LOADED CHECK VALVES, INDICATING BUTTERFLY SHUT-OFF VALVES ON INLET AND OUTLET, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, 8 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 1015, IAPMO AND SBCCI LISTED, UL.	AMES (C200), ZURN WILKINS (350AST), APOLLO (DCLF-4A)
FP-BFP-1	MOUNT WITHIN 60" OF FINISHED FLOOR, FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED, LISTED FOR HORIZONTAL OR VERTICAL CONFIGURATIONS.	
FS-1	FLOW SWITCH - VANE TYPE, 450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RETARD ADJUSTABLE FROM 0-60 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, UL/FM.	POTTER VSR, SYSTEM SENSOR WFD
IT-1	COMBINATION INSPECTOR'S TEST AND DRAIN VALVE, 300 PSI, INTEGRAL SIGHT GLASS, BALL VALVE PLATE INDICATING OFF-TEST DRAIN POSITIONS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, PRESSURE RELIEF VALVE, UL/FM.	AGF (M1011A), RELIABLE (MODEL TD), VICTAULIC (SERIES UTD)
MS-1	MONITOR SWITCH - ELECTRIC, ONE SINGLE POLE, DOUBLE THROW CONTACT, CAST ALUMINUM HOUSING WITH CORROSION RESISTANT PARTS, WITH J-BOLTS FOR MOUNTING, UL/FM, VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.	POTTER ELECTRIC OSYSU-1, SYSTEM SENSOR OSY2



1 FIRE PROTECTION RISER DIAGRAM
NO SCALE

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

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REF. SCALE IN INCHES PROJECT #26000335-00



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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
**FIRE PROTECTION
DIAGRAMS MATERIAL
LIST**

SHEET NUMBER:
F3.00

VIEW KEY

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALF TONING DOES NOT MODIFY SCOPE.

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

SYMBOL	TAG	SPEC SECTION	DESCRIPTION
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING W = WEATHERPROOF # = 15, 30, 75, 110, 177 CANDELA RATING

SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	FACP-SF	28 31 00	FIRE ALARM CONTROL PANEL
	FA-120	28 31 00	SMOKE DETECTOR - PHOTOELECTRIC
	FA-122	28 31 00	DUCT SMOKE DETECTOR
	FA-140	28 31 00	HEAT DETECTOR - FIXED TEMP.
	FA-130	28 31 00	MANUAL PULL STATION
	FA-200	28 31 00	VISUAL ALARM DEVICE ## INDICATES CANDELA RATING
	FA-263	28 31 00	ELECTRIC BELL FOR SPRINKLER SYSTEM
	FA-211	28 31 00	COMBINATION AUDIO HORN / VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING
	FA-242	28 31 00	REMOTE INDICATOR WITH TEST SWITCH
	FA-260	28 31 00	FLOW SWITCH TO MONITOR SPRINKLER SYSTEM
	FA-261	28 31 00	TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM
	FA-160	28 31 00	ADDRESSABLE MONITOR MODULE
	FA-161	28 31 00	ADDRESSABLE CONTROL MODULE

FIRE ALARM SEQUENCES KEY:		
SUBSCRIPTS: TYPE/PROGRAMMING:		
W WEATHERPROOF		
# 15, 30, 75, 110, 177 CANDELA RATING		

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
			LINEAR LUMINAIRES
			WALL PACK LUMINAIRE
			RECESSED TROFFER
			SINGLE FACE EXIT SIGN
			EMERGENCY UNIT

CONDUIT INSTALLATION SCHEDULE					
THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.					
INSTALLATION TYPE	RMC	IMC	EMT	PVC	PVC CONCRETE ENCASED
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X		
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X		
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.		X	X		
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LPMC TO PUMP)		X	X		
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X		
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X				
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X		
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X		
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X		
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)					
WITHIN THE PERIMETER OF THE BUILDING, UNDER SLAB ON GRADE	X			X	
WITHIN 5' OF ANY BUILDING WALL OR FOUNDATION WHEN PENETRATING THE STRUCTURAL FOUNDATION OR WALL	X				X
UNDERGROUND SITE CONDUITS:					
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X	
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HOPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT					X
DEFINITIONS:					
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.					

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	S	SW-1P	26 09 33	SWITCH - SINGLE POLE
	O	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR AND SWITCH
	V	SW-V	26 09 33	SWITCH - VACANCY SENSOR AND SWITCH
		SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
		SW-LS-PC	26 09 33	PHOTOCELL
		SW-#B	26 09 33	LIGHTING CONTROL STATION - UNIQUE ID
		SW-TC	26 09 33	TIME CLOCK SWITCH

SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	ECONN	26 05 33	ELECTRICAL CONNECTION - CEILING/SURFACE
	ECONN	26 05 33	ELECTRICAL CONNECTION - WALL
	JB	26 05 33	JUNCTION BOX - WALL
	ES	26 09 16	EMERGENCY STOP, N.C. CONTACT
	PANEL-##	26 24 16	PANELBOARD - SURFACE MOUNT
	DP-#	26 24 16	DISTRIBUTION PANEL
	MS-#	26 24 19	MANUAL STARTER, REFER TO DISCONNECT AND STARTER SCHEDULE
	TR-#	26 22 00	DRY TRANSFORMER(S)
	DS-#	26 28 16	DISCONNECT SWITCH, REFER TO DISCONNECT
	FDS-#	26 28 16	FUSIBLE DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	SPD-1	26 43 00	SURGE PROTECTION DEVICE

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
		REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, 125V - NEMA 3R WHILE IN-USE COVER
		REC-DUP-GFI	26 27 26	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V
		REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	620	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	L1530	REC-SIM-L1530R	26 27 26	RECEPTACLE-LOCKING, L15-30R, 250V, 3PH

RECEPTACLE SUBSCRIPT KEY:	
DEVICE KEY:	
DEVICE	# = MOUNTING (IF APPLICABLE) 1 = CIRCUIT NUMBER
	*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1
ELECTRICAL MOUNTING SUBSCRIPT KEY:	
A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH	
WG WIRE GUARD	
+# MOUNT AT #" TO CENTERLINE ABOVE FINISHED FLOOR	

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.

2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.

3. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR. CONTRACTOR SHALL NOTIFY THE PRIME CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.

4. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

2. ROOM BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL "INTELLIGENT" LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.

A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".

B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).

C. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG (L#-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.

F#

a

LUMINAIRE

a

S

CONTROL

2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.

A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".

B. EXAMPLE CONTROL DESIGNATIONS: a, b, c

C. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" AND "b" WITHIN THE SAME SPACE

D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG (L#-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

F#

a

LUMINAIRE

F#

b

LUMINAIRE

a,b

#B

CONTROL

LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

(L#-##) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E4.00.

(#B) LIGHTING CONTROL STATION. THE "B" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

LIGHTING CONTROL SUBSCRIPTS:

1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL, (S, SS, S4, ETC) OR (#B) ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.

REFER TO SHEET E4.00 FOR LUMINAIRE SCHEDULE

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.

3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.

4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.

5. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.

6. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.

7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

8. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.

9. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.

11. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.

12. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

13. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX	
E0.00	ELECTRICAL COVERSHEET
ED0.01	ELECTRICAL SITE DEMOLITION
ED1.01	DEMOLITION FLOOR PLAN - ELECTRICAL
E0.01	ELECTRICAL SITE PLAN
E1.01	FLOOR PLAN - LIGHTING
E1.02	FLOOR PLAN - POWER & SYSTEMS
E2.00	ELECTRICAL DETAILS
E4.00	ELECTRICAL SCHEDULES
GRAND TOTAL: 8	

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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL
COVERSHEET

SHEET NUMBER:
E0.00

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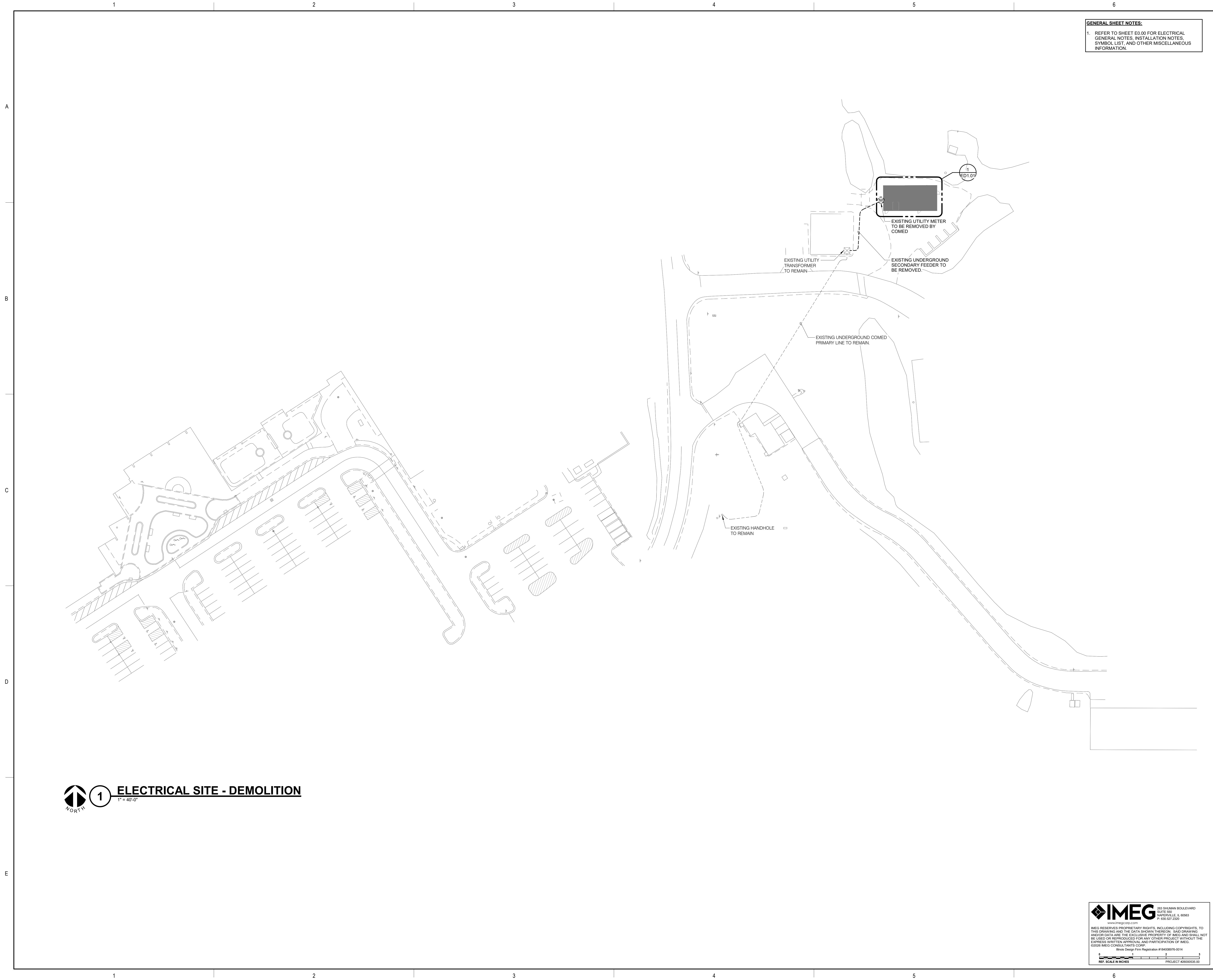
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REF. SCALE IN INCHES

PROJECT #26000335-00

4/21/2026 8:45:56 AM



GENERAL SHEET NOTES:
1. REFER TO SHEET E0.00 FOR ELECTRICAL GENERAL NOTES, INSTALLATION NOTES, SYMBOL LIST, AND OTHER MISCELLANEOUS INFORMATION.

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DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

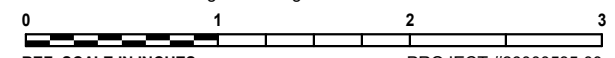
SHEET TITLE:
**ELECTRICAL SITE
DEMOLITION**

SHEET NUMBER:
ED0.01

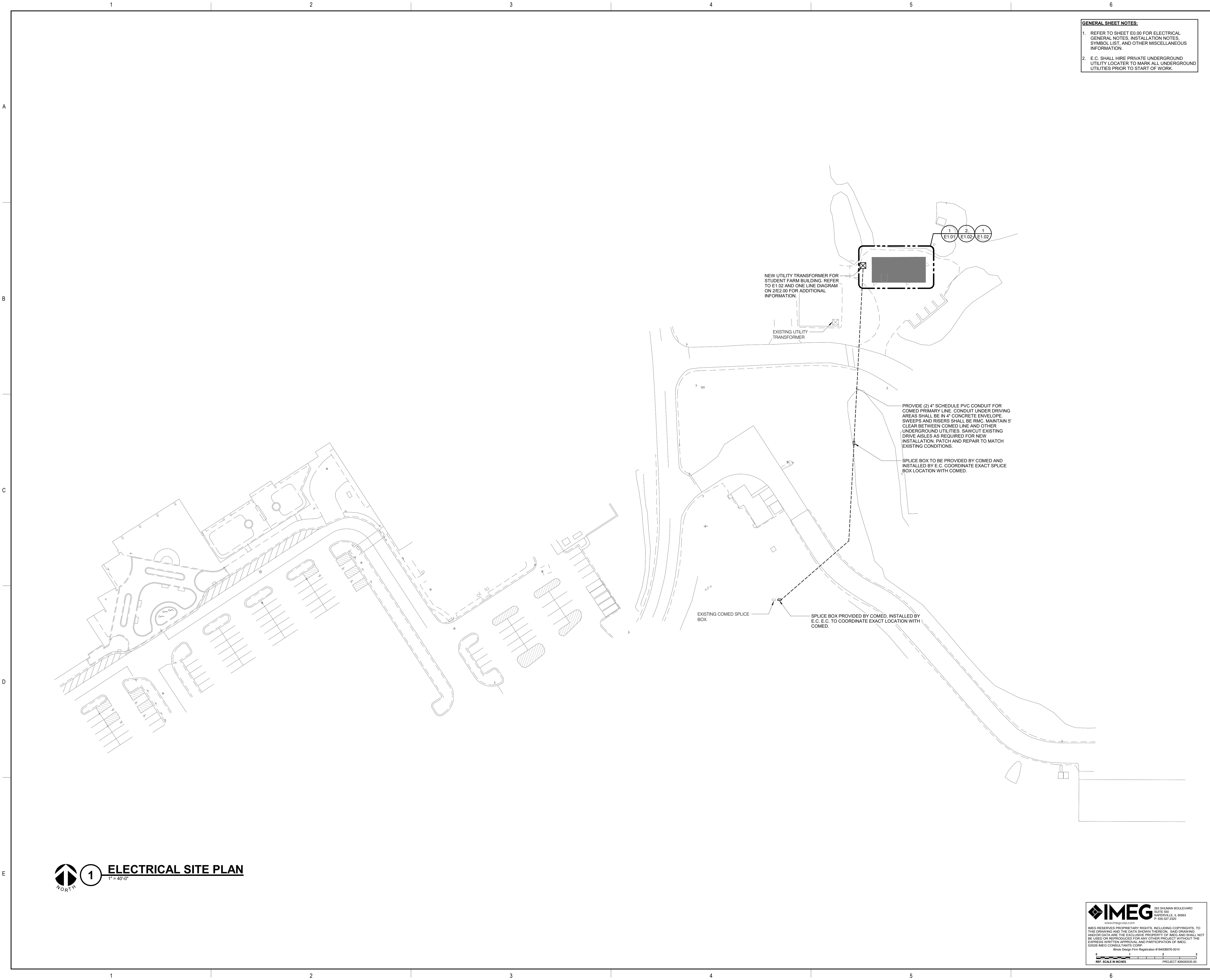


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Block Design Firm Registration #184008978-0014



REF. SCALE IN INCHES
PROJECT #26000335.00



GENERAL SHEET NOTES:

1. REFER TO SHEET E0.00 FOR ELECTRICAL GENERAL NOTES, INSTALLATION NOTES, SYMBOL LIST, AND OTHER MISCELLANEOUS INFORMATION.
2. E.C. SHALL HIRE PRIVATE UNDERGROUND UTILITY LOCATER TO MARK ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK.



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8900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E0.01

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REF. SCALE IN INCHES PROJECT #26000335.00



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$$1/4'' = 1'-0''$$


NO SCALE

1. REFER TO SHEET E4.00 FOR ELECTRICAL GENERAL NOTES, INSTALLATION NOTES, RENOVATION NOTES, SYMBOL LIST, AND OTHER MISCELLANEOUS INFORMATION.
2. REFER TO SHEET E4.00 FOR LUMINAIRE SCHEDULE AND LIGHTING SEQUENCE OF OPERATION.
3. REFER TO SHEET E4.00 FOR PANEL SCHEDULES.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL, FIRE PROTECTION, AND ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
5. FIXTURE TYPE WITH TAG EX. F1* ARE EXISTING FIXTURES RETAINED FOR RE-USE. FIXTURES SHALL BE INSTALLED AND CONNECTED TO NEW 120V CIRCUITS AND CONTROLS AS NOTED ON PLANS.
6. EXPOSED CONDUIT IS ACCEPTABLE WHERE A NEW DEVICE IS TO BE INSTALLED ON AN EXISTING WALL.
7. WIRE EXIT SIGNS AND EMERGENCY NOTES TO THE UN-SWITCHED LEG OF THE LOCAL LIGHT CIRCUIT.

1. PHOTOCELL FOR EXTERIOR LUMINAIRES. REFER TO DETAIL 2/E1.01 FOR WIRING DIAGRAM. MOUNT ON WALL FACING NORTH. COORDINATE EXACT LOCATION WITH OWNER.
2. LIGHT FIXTURES TO BE PROVIDED BY WALK-IN FREEZER MANUFACTURER. INSTALLED AND WIRED BY E.C. REFER TO ITEM FEQ-04 ON SHEET E1.02 FOR POWER REQUIREMENTS.
3. EXISTING COOLER LUMINAIRE SHALL BE CONNECTED TO NEW EXISTING 120V CIRCUIT LIGHTING CONTROLS TO REMAIN.
4. LIGHT FIXTURES TO BE PROVIDED BY WALK-IN COOLER MANUFACTURER. INSTALLED AND WIRED BY E.C. REFER TO ITEM FEQ-04 ON SHEET E1.02 FOR POWER REQUIREMENTS.
5. PROVIDE EX F1 FIXTURE IN ATTIC SPACE CONNECTED TO CONTROL "P2-1". PROVIDE LOCAL LIGHTING CONTROLS IN THE SPACE PARTITIONED OFF BY GLASS. EXACT FIXTURE LOCATION WITH ARCHITECT.

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REF. SCALE IN INCHES PROJECT #26000535.00

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88900 Northwest Hwy #14, Crystal Lake, IL 60012
DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2022
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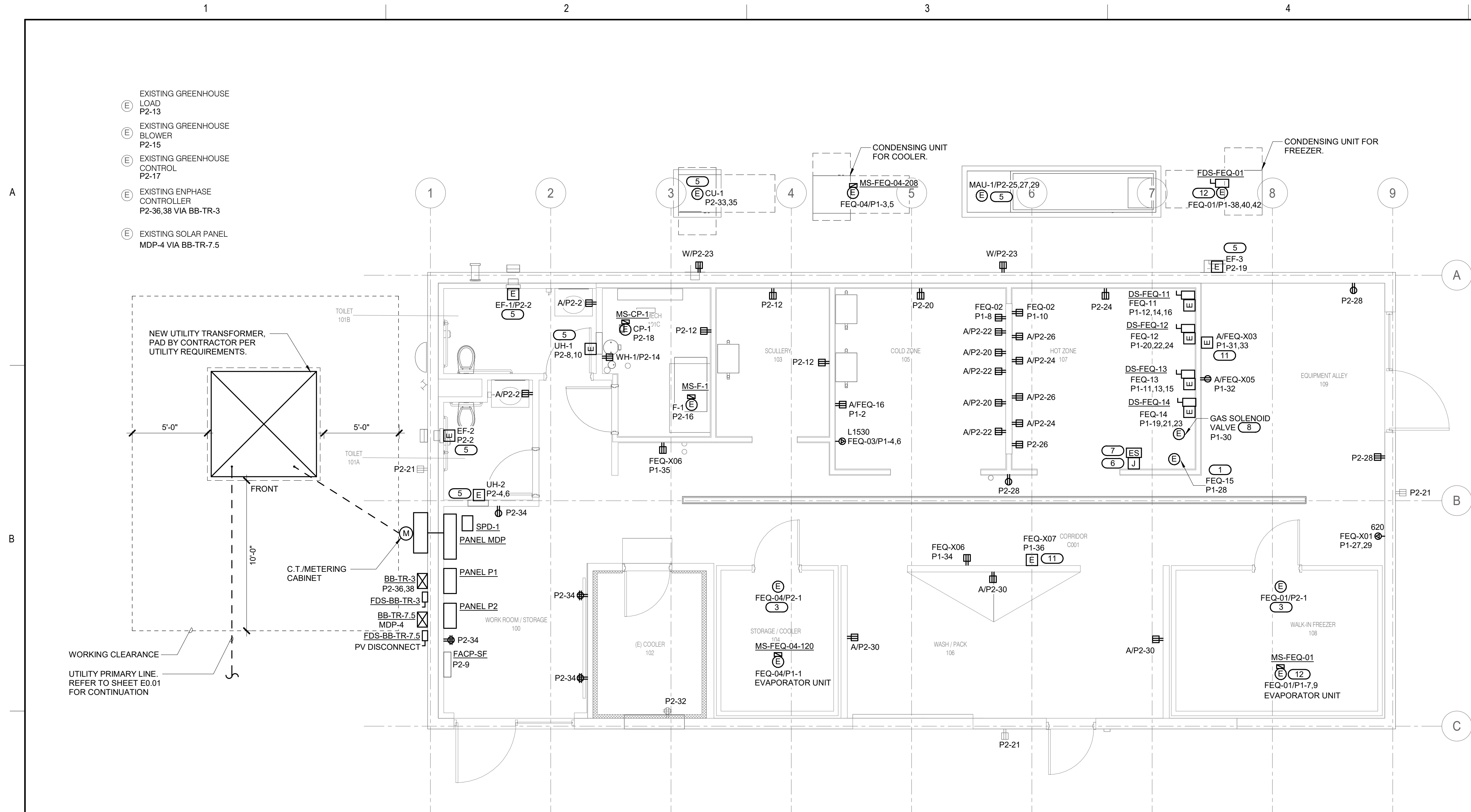
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**FLOOR PLAN -
LIGHTING**

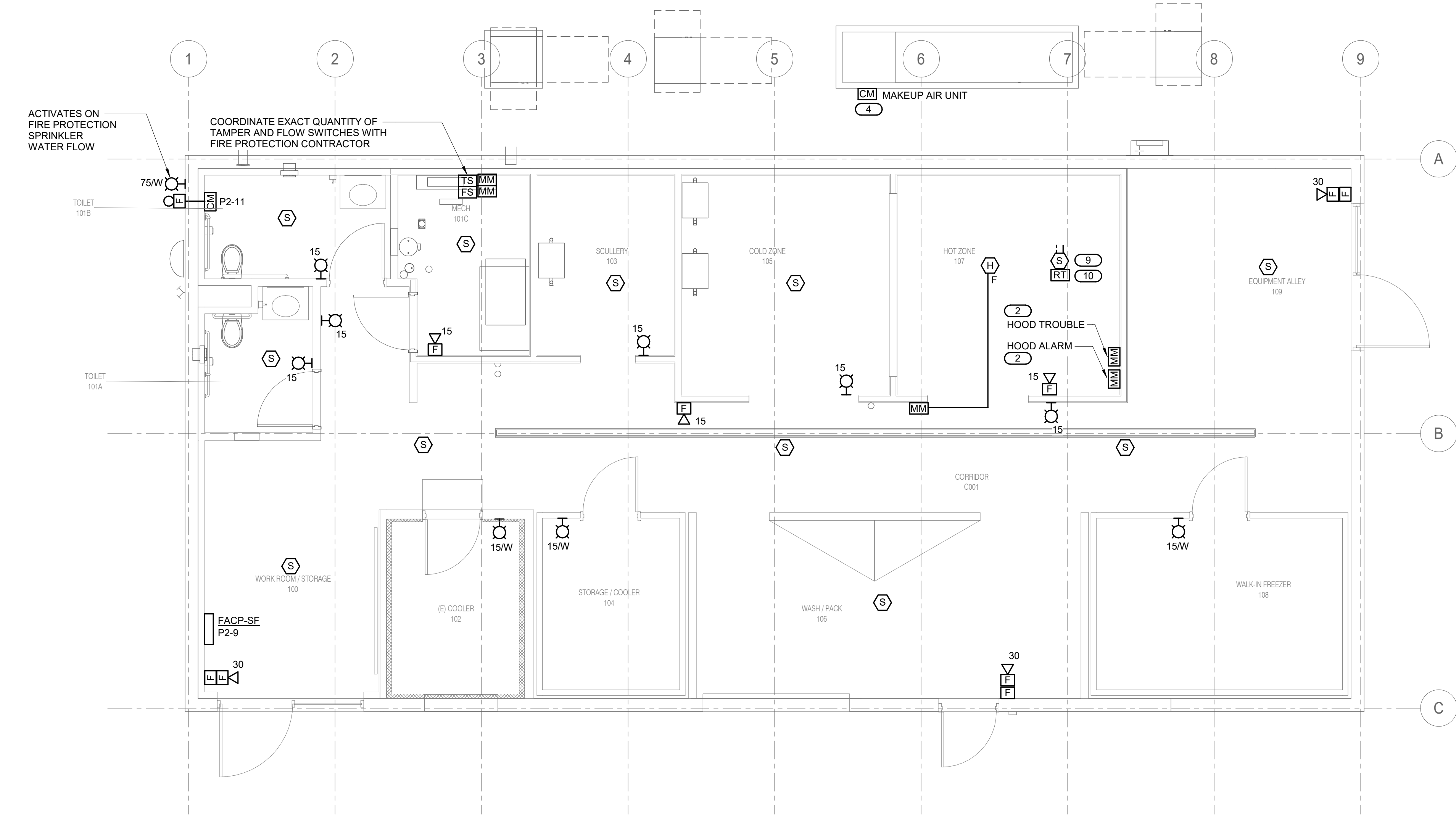
SHEET NUMBER

E1.01

4/21/2026 8:45:56 AM



2 LEVEL 1 - FLOOR PLAN - POWER
1/4" = 1'-0"



1 LEVEL 1 - FLOOR PLAN - SYSTEMS
1/4" = 1'-0"

- GENERAL SHEET NOTES:**
- REFER TO SHEET E0.00 FOR ELECTRICAL GENERAL NOTES, INSTALLATION NOTES, RENOVATION NOTES, SYMBOL LIST, AND OTHER MISCELLANEOUS INFORMATION.
 - REFER TO SHEET E4.00 FOR PANEL SCHEDULES.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL, FIRE PROTECTION, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
 - VERIFY EXACT LOCATION AND ELEVATION OF RECEPTACLES WITH ARCHITECT.
 - REFER TO DETAIL 1/E2.00 FOR EXHAUST HOOD CONTROL DIAGRAM.
 - EXPOSED CONDUIT IS ACCEPTABLE WHERE A NEW DEVICE IS TO BE INSTALLED ON AN EXISTING WALL.
 - COORDINATE LOCATIONS OF ALL KITCHEN EQUIPMENT DEVICES MARKED 'FEQ-##' WITH KITCHEN CONSULTANT PRIOR TO ROUGH-IN.

- KEYNOTES:**
- HOOD PROVIDED WITH LIGHT SWITCH, INSTALLED AND WIRED BY E.C.
 - MONITOR MODULE FOR EXHAUST HOOD CONTROL PANEL. REFER TO DETAIL 1/E2.00.
 - LIGHTING TO BE PROVIDED BY FREEZER/COOLER MANUFACTURER. INSTALLED AND WIRED BY E.C. PROVIDE LIGHTING CONTROL AS REQUIRED.
 - CONNECTION TO MOTOR CONTROLLER FOR MOTOR SHUTDOWN SEQUENCE.
 - CONNECT TO MANUFACTURER PROVIDED DISCONNECT/STARTER.
 - BACKBOX FOR MANUAL HOOD SUPPRESSION. COORDINATE LOCATION WITH HOOD INSTALLER. REFER TO DETAIL 1/E2.00 FOR WIRING DETAIL.
 - EMERGENCY GAS SHUTOFF SWITCH. REFER TO DETAIL 1/E2.00 FOR WIRING DETAIL.
 - GAS SOLENOID VALVE FOR COOKING APPLIANCE UNDER HOOD. COORDINATE EXACT LOCATION WITH M.C. REFER TO DETAIL 1/E2.00 FOR WIRING DETAIL.
 - INSTALL SAMPLING TUBE IN STRAIGHT RUN OF THE DUCT, DOWN STREAM OF FILTERS, AND AHEAD ANY BRANCH DUCTS. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN. SEAL ALL DUCT PENETRATIONS AIR-TIGHT.
 - INSTALL REMOTE INDICATOR TEST SWITCH ON WALL IN THE CORRIDOR. LABEL AS PER ASSOCIATED MAU, DUCT SYSTEM, AND SMOKE DETECTOR ADDRESS.
 - VERIFY EXISTING EQUIPMENT ON SITE. COORDINATE RECEPTACLE CONFIGURATION WITH EXISTING PLUG.
 - POWER REQUIREMENTS HAVE NOT BEEN PROVIDED TO IMEG DURING DESIGN. CONTRACTOR SHALL COORDINATE EXACT POWER REQUIREMENTS WITH APPROVED SHOP DRAWINGS.



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DKA PROJECT NO: 25-037

KEY PLAN:

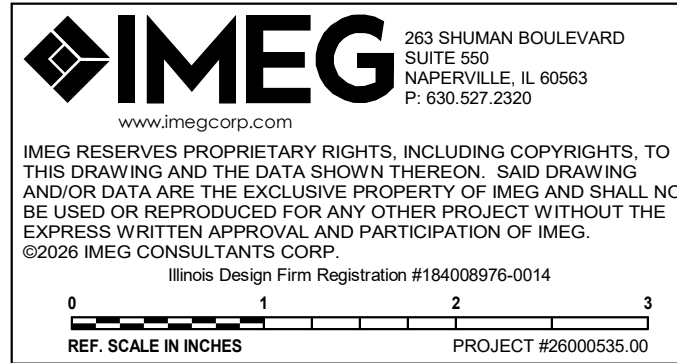
SHEET STATUS: 04/21/2026
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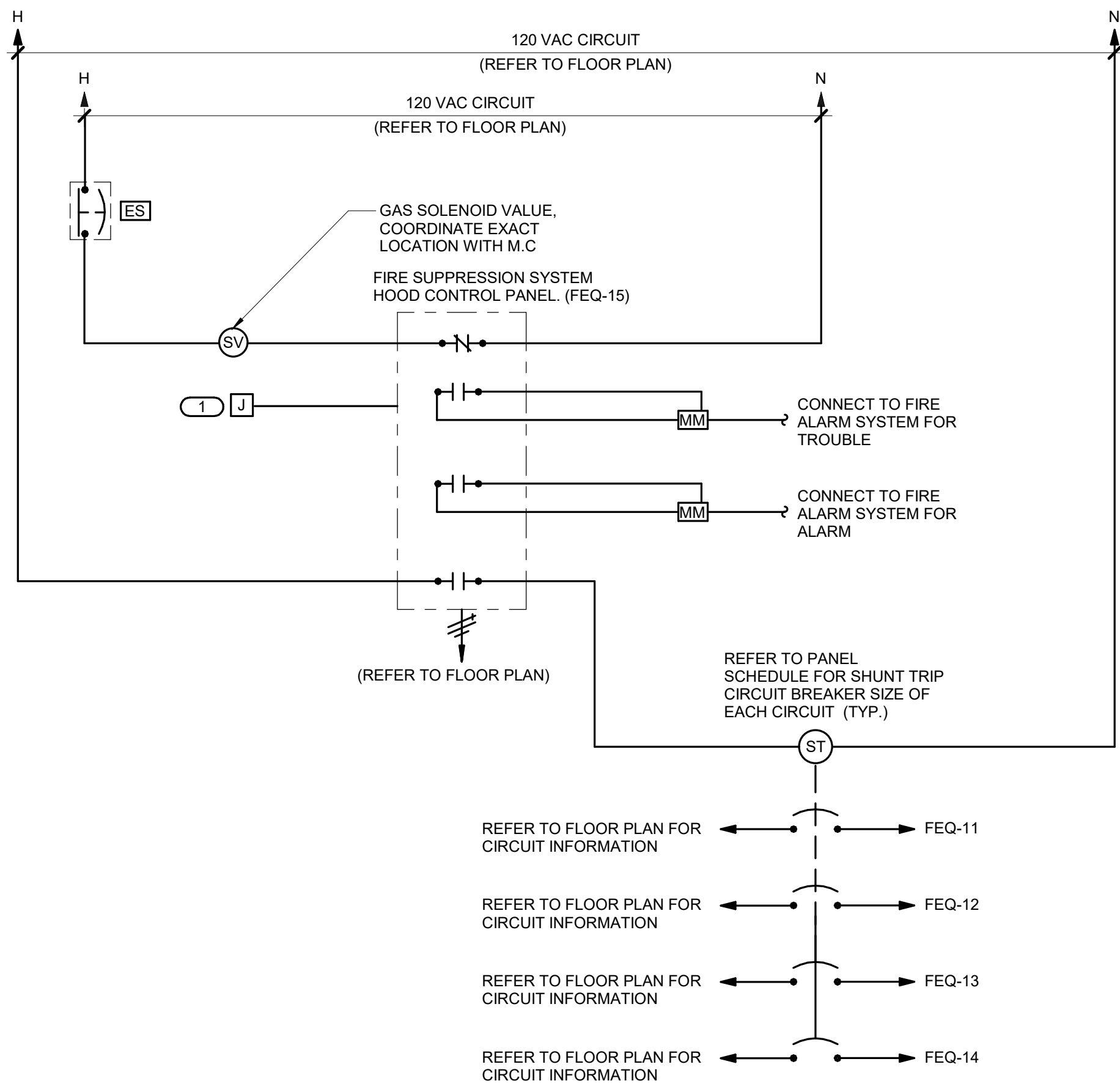
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLAN - POWER & SYSTEMS

SHEET NUMBER:

E1.02





1 EXHAUST HOOD CONTROL DIAGRAM

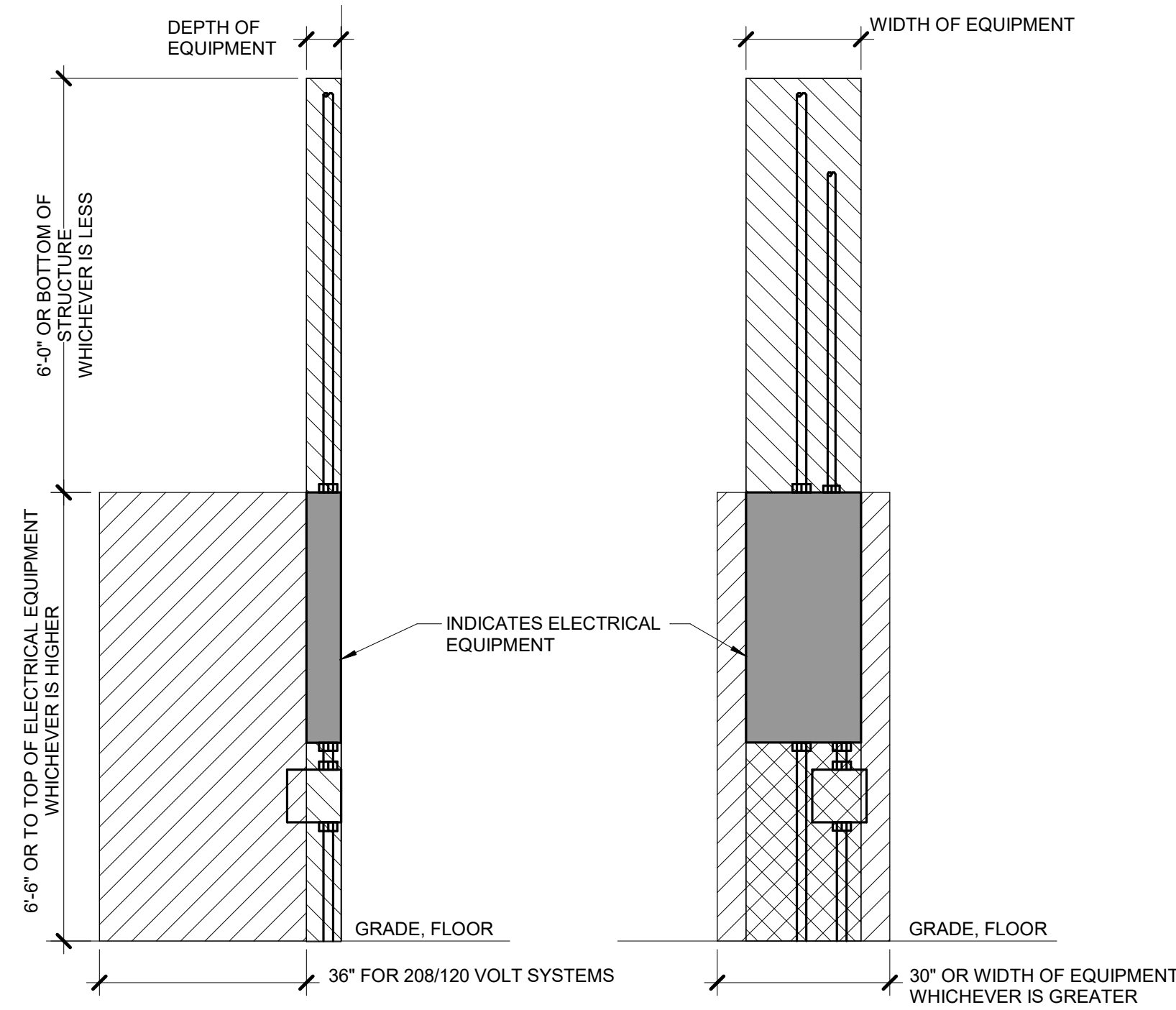
NO SCALE

NOTES:

1. WIRING PER MANUFACTURER'S RECOMMENDATIONS. ALL WIRING SHALL BE INSTALLED IN CONDUIT.

KEYNOTES: (#)

1. PROVIDE BACKBOX AND CONDUIT FOR MANUAL PULL STATION PROVIDED BY FOOD SERVICE EQUIPMENT SUPPLIER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SERVICE EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.



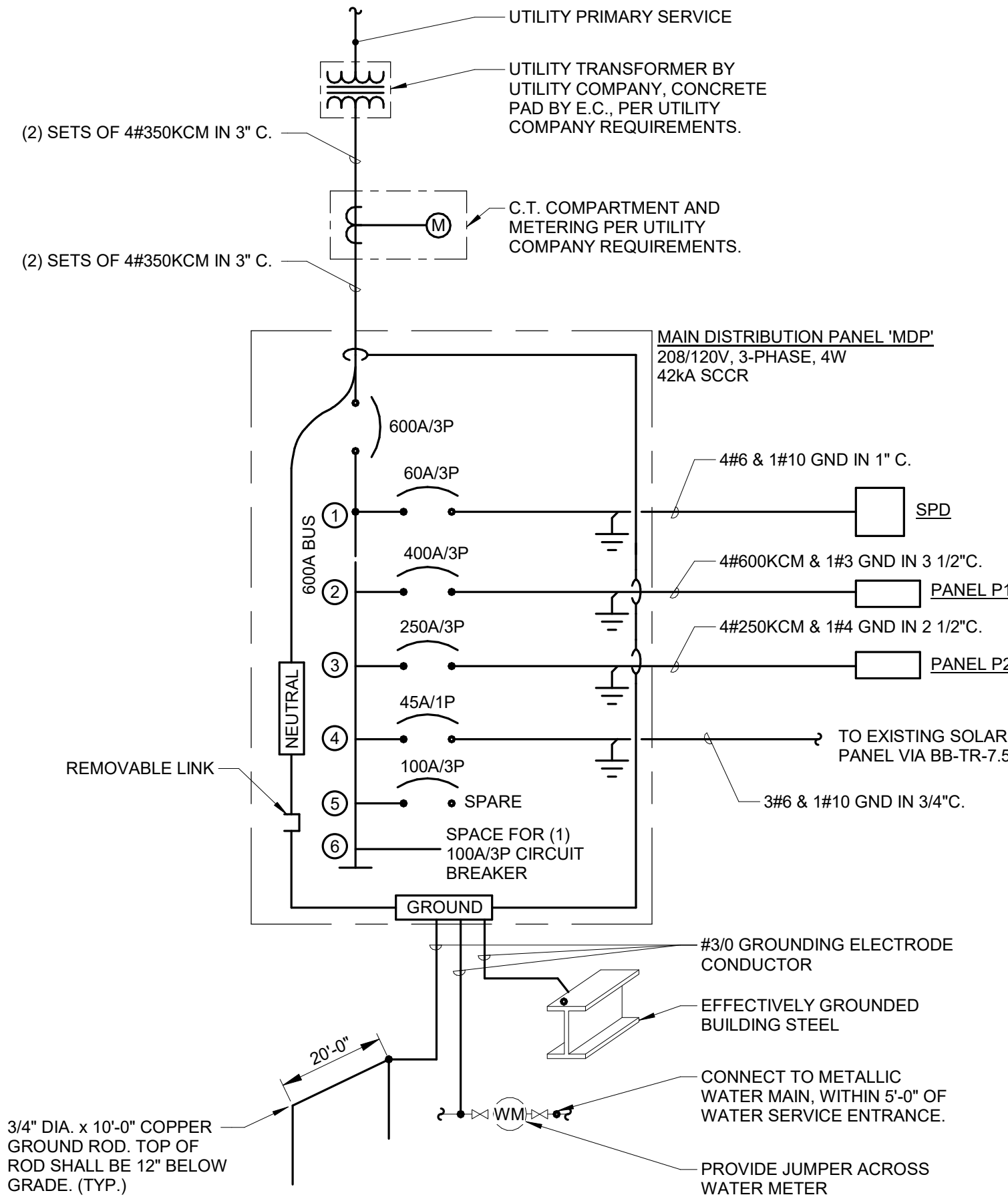
SECTION

ELEVATION

- INDICATES WORKING SPACE REQUIRED PER LOCAL ELECTRICAL CODE. ELECTRICAL EQUIPMENT LOCATED ABOVE OR BELOW OTHER RELATED EQUIPMENT SHALL NOT EXTEND MORE THAN 6" IN FRONT OF SUCH EQUIPMENT.
- INDICATES DEDICATED ELECTRICAL SPACE REQUIRED PER LOCAL ELECTRICAL CODE

3 PANELBOARD EQUIPMENT CLEARANCES

NO SCALE



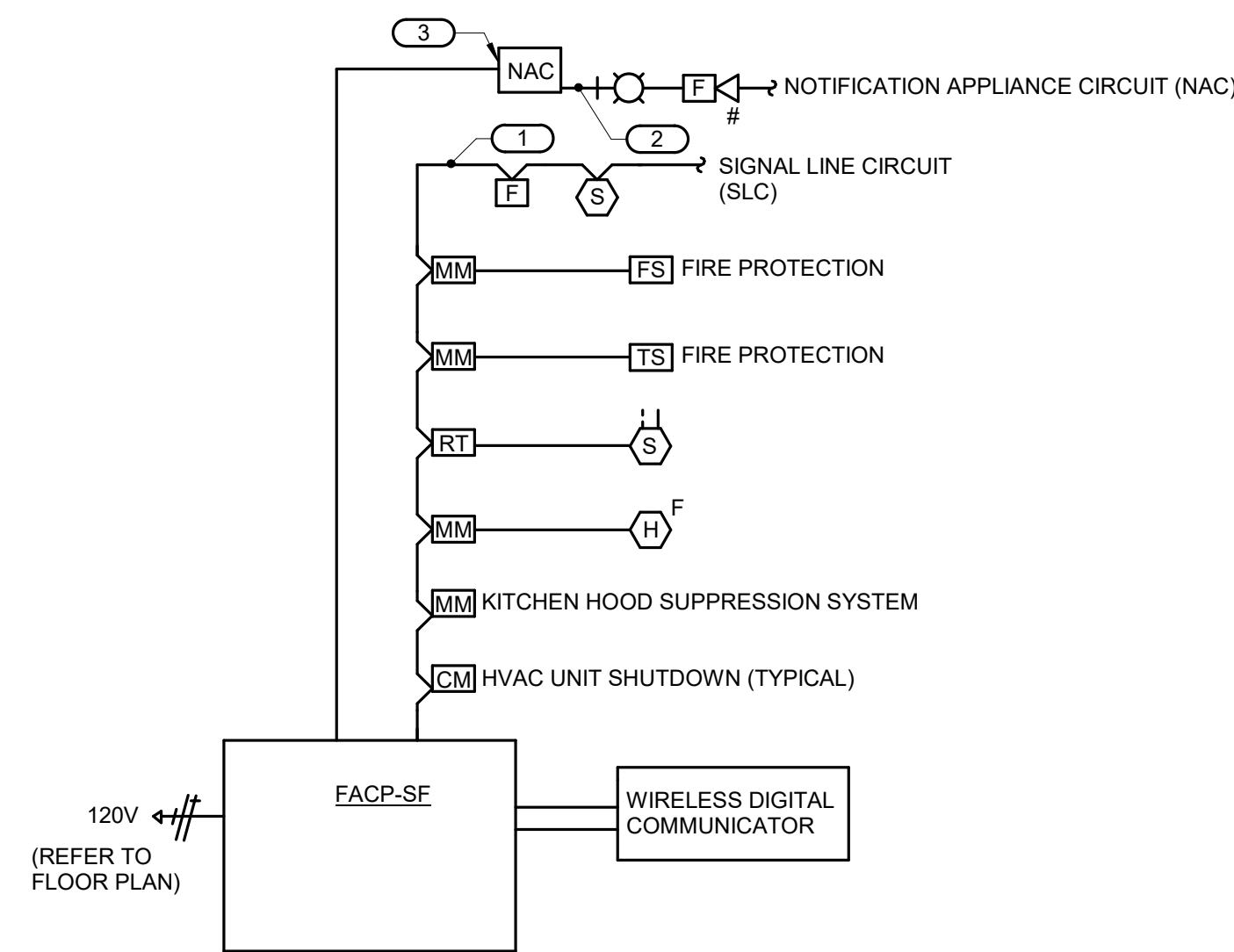
2 ONE LINE DIAGRAM

NO SCALE

SEQUENCE OF OPERATION		PANEL ANNUNCIATOR ALARM INDICATION	PANEL ANNUNCIATOR SUPERVISORY INDICATION	PANEL ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	INITIATING DEVICE FAILURE OR COMMUNICATION ERROR	CM
SYSTEM INPUTS								
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY		X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE			X					
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION		X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT			X					
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRRREGULARITY			X					
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT			X					
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR			X					
FIRE ALARM PANEL MANUAL FIRE DRILL		X			X	X		
MANUAL PULL STATION	[F]	X			X	X		
SMOKE DETECTOR	[S]	X			X	X		
HEAT DETECTOR	[H] _F	X			X	X		
SMOKE DETECTOR FOR HVAC CONTROL	[S] _{IT}							X
SPRINKLER SYSTEM FLOW SWITCH	[FS]	X			X	X		
SPRINKLER SYSTEM TAMPER SWITCH	[TS]		X					

4 FIRE ALARM OPERATION MATRIX

NO SCALE



NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.

KEYNOTES: (#)

1. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
3. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.

5 FIRE ALARM RISER DIAGRAM

NO SCALE



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 DKA PROJECT NO: 25-037

KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUED FOR BID

NO.	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E2.00

LUMINAIRE SCHEDULE LEGEND				
DESCRIPTION:				
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER				
MOUNTING (MTG):				
RE - RECESSED	WL - WALL	CL - CEILING	SU - SURFACE	
VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS. REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS, AND DETAILS FOR LUMINAIRE MOUNTING LOCATIONS AND REQUIREMENTS.				
DIMENSIONS:				
L - LENGTH	W - WIDTH	H - HEIGHT	D - DEPTH	Ø - DIAMETER
VAR. - DIMENSION VARIES, SEE ARCHITECTURAL PLANS.				
LIGHT SOURCE:				
SOURCE TYPE	LED - INTEGRAL LIGHT EMITTING DIODE			
CCT / CRI	INTERIOR CORRELATED COLOR TEMPERATURE 3500K. COLOR RENDERING INDEX (CRI) AT OR ABOVE 80 UNLESS NOTED OTHERWISE. EXTERIOR CORRELATED COLOR TEMPERATURE 4000K. COLOR RENDERING INDEX (CRI) AT OR ABOVE 80 UNLESS NOTED OTHERWISE.			
DELIVERED LUMENS:				
LUMENS INDICATED ARE MINIMUM INITIAL DELIVERED LUMENS AT SPECIFIED CCT AND CRI.				
WATTS:				
MAXIMUM ANSI WATTS PER: (BLANK) = PER LUMINAIRE FT = LINEAR FOOT				
VOLTAGE:				
VOLTAGE (V AC)	120			
POWER SUPPLY:				
PS TYPE	EM - EMERGENCY BATTERY			
CONTROL METHOD	0-10V - 0 TO 10V DIMMING 1% AS INDICATED			
COORDINATE LUMINAIRE DRIVER DIMMING METHODS AND PROTOCOLS WITH THE LIGHTING CONTROL SYSTEM AND CONTROL MANUFACTURER REQUIREMENTS TO ENSURE DIMMING COMPATIBILITY.				
MANUFACTURER - SERIES:				
1. THE FIRST MANUFACTURER AND MODEL LISTED IS THE BASIS OF DESIGN. 2. THE MODEL NUMBER SHOWN SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE MODEL NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.				
LUMINAIRE SCHEDULE GENERAL NOTES:				
1. REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.				

LUMINAIRE SCHEDULE									
TAG	DESCRIPTION	MTG	DIMENSIONS	LIGHT SOURCE	DELIVERED LUMENS	WATTS	VOLTAGE	POWER SUPPLY	MANUFACTURER - SERIES
EM1	EMERGENCY UNIT, NICKEL-CADMIUM BATTERY, TWO ADJUSTABLE HEADS, THERMOPLASTIC HOUSING. COORDINATE WITH ARCHITECT FOR FINISH AND MOUNTING.	WL	9 1/4"L X 3 1/8"W X 4 5/8"H	LED	220 lm	2 / FIX	120	EM	LITHONIA ELMZL EVENLITE TELESIS OR APPROVED EQUAL
EX1	SINGLE-FACE EXIT SIGN, WHITE THERMOPLASTIC BODY, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN. UNIVERSAL ARROWSMOUNTING. SELF TEST & DIAGNOSTICS OF INVERTER & LAMPS.	CL/WL	13"L X 2"W X 9"H	LED		2 / FIX	120	EM	DUAL-LITE EVE LITHONIA SURE-LITES CHLORIDE LIGHTALARMS SLED
EX F1	EXISTING RELOCATED SURFACE MOUNTED LIGHTING FIXTURE	SU	48"L X 3 1/2"W X 3 1/8"H	LED	7,800 lm	60 / FIX	120	0-10V	---
F2	RECESSED 2X2 TROFFER, FLAT FROSTED LENS, TIGHT ENCLOSURE ASSEMBLY, RATED FOR NSF/ANSI 2	RE	24"L X 24"W X 2 1/4"H	LED	4,000 lm	36 / FIX	120	0-10V	LITHONIA CPX DAY-BRITE METALUX COLUMBIA
S1	WALL PACK LED LUMINAIRE, P1 DISTRIBUTION, WET LOCATION LISTED, EM COLD RATED BATTERY. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED. COORDINATE FINAL FINISH AND MOUNTING WITH ARCHITECT.	WL	6 1/2"L X 11"W X 10 1/2"H	LED	1,500 lm	11 / FIX	120	EM	LITHONIA ARC 1 H.E. WILLIAMS GARDCO OR APPROVED EQUAL

DISCONNECT AND STARTER SCHEDULE

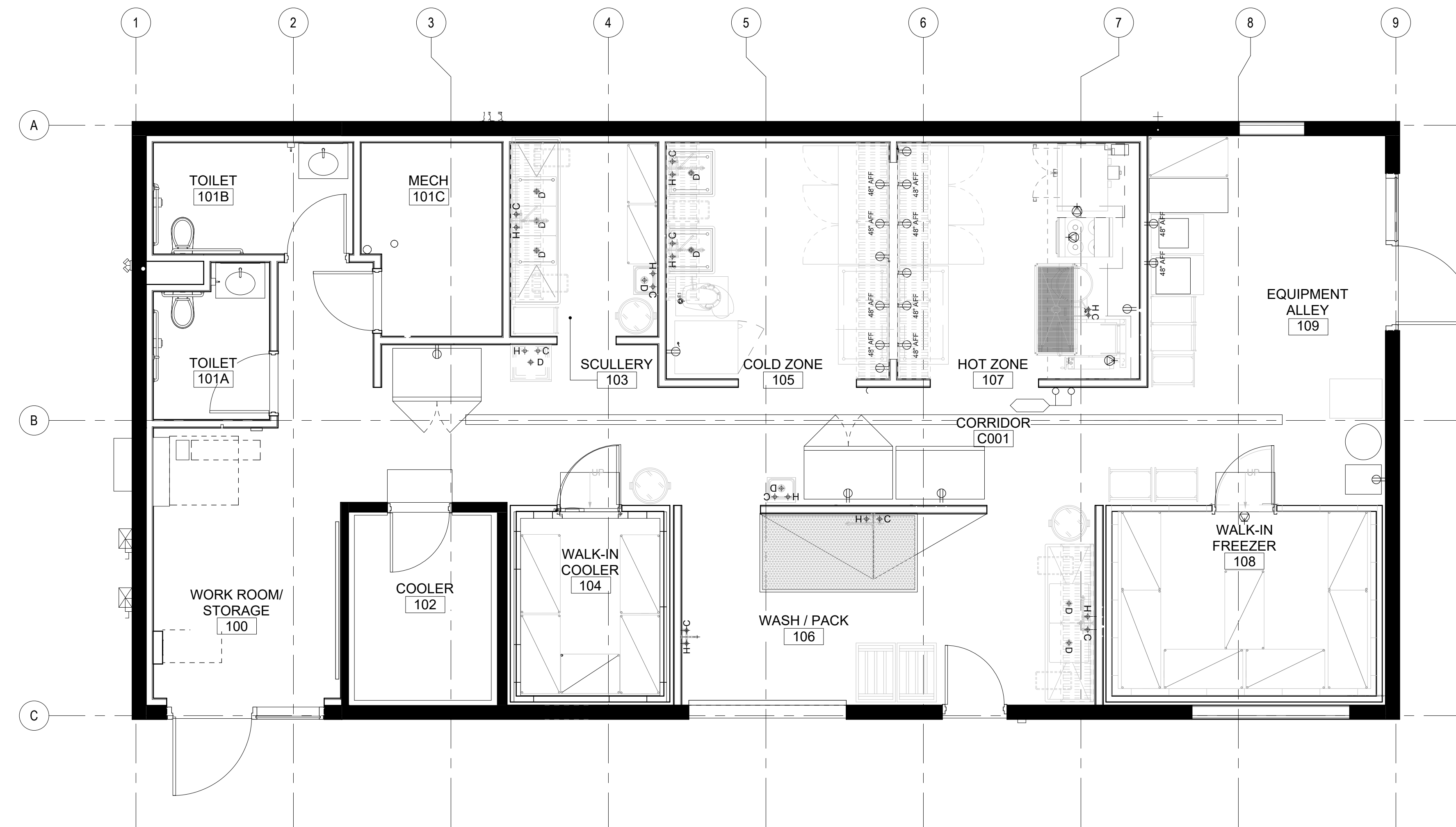
NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.									
DISCONNECT TYPE:		ACCESSORIES & OPTIONS							
FU - FUSED		SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)			PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...				
NF - NON-FUSED		*CT - CONTROL TRANSFORMER, FUSED 120V			TO - MELTING THERMAL OVERLOADS (1 PHASE)				
CB - CIRCUIT BREAKER		*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)			TS - 2 SPEED SELECTOR SWITCH IN DOOR				
		*HA - HAND-OFF-AUTO IN DOOR			GP - GREEN (OFF) PILOT LIGHT IN DOOR				
		*RP - RED (RUN) PILOT LIGHT IN DOOR			FA - 4-CONVERTIBLE AUXILIARY CONTACTS				
		*TA - TWO CONVERTIBLE AUXILIARY CONTACTS			EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.				
		S/N - INSULATED NEUTRAL ASSEMBLY			SS - START-STOP PUSHBUTTON IN DOOR				
					HL - HANDLE PADLOCK HASP				
STARTER TYPE:									
FV - FULL VOLTAGE									
YD - WYE - DELTA									
RE - REVERSING									
TW - 2 SPEED, 2 WINDING									
SW - 2 SPEED, 1 WINDING									
RV - REDUCED VOLTAGE AUTOXFMR									
SS - SOLID STATE									
MS - MANUAL STARTER									
MX - MANUAL SWITCH									
FS - FUSED SWITCH									
AMS-ASSEMBLED MOTOR STARTER									
DISCONNECT TYPE & RATING		STARTER			REQUIRED ACCESSORIES & OPTIONS				
ITEM	TYPE	RATING	TRIP RATING	VOLTAGE	POLES	NEMA SIZE	TYPE	ENCLOSURE	COMMENTS
MS-CP-1		20	120	1	0	MS	NEMA 1	RP,TO	
MS-F-1		20	120	1	0	MS	NEMA 1	RP,TO	
MS-FEQ-01		20	208	1	0	MS	NEMA 1	RP,TO	
MS-FEQ-04-120		20	120	1	0	MS	NEMA 1	RP,TO	
MS-FEQ-04-208		20	208	1	0	MS	NEMA 3R	RP,TO	
FDS-BB-TR-3	FU	30	20	240	1			HL	
FDS-BB-TR-7.5	FU	30	30	240	1		NEMA 3R	HL	
FDS-FEQ-01	FU	30	20	208	3		NEMA 3R	HL	
DS-FEQ-14	NF	30		208	3		NEMA 1		
DS-FEQ-11	NF	60		208	3		NEMA 1		
DS-FEQ-12	NF	60		208	3		NEMA 1		
DS-FEQ-13	NF	60		208	3		NEMA 1		

TRANSFORMER SCHEDULE

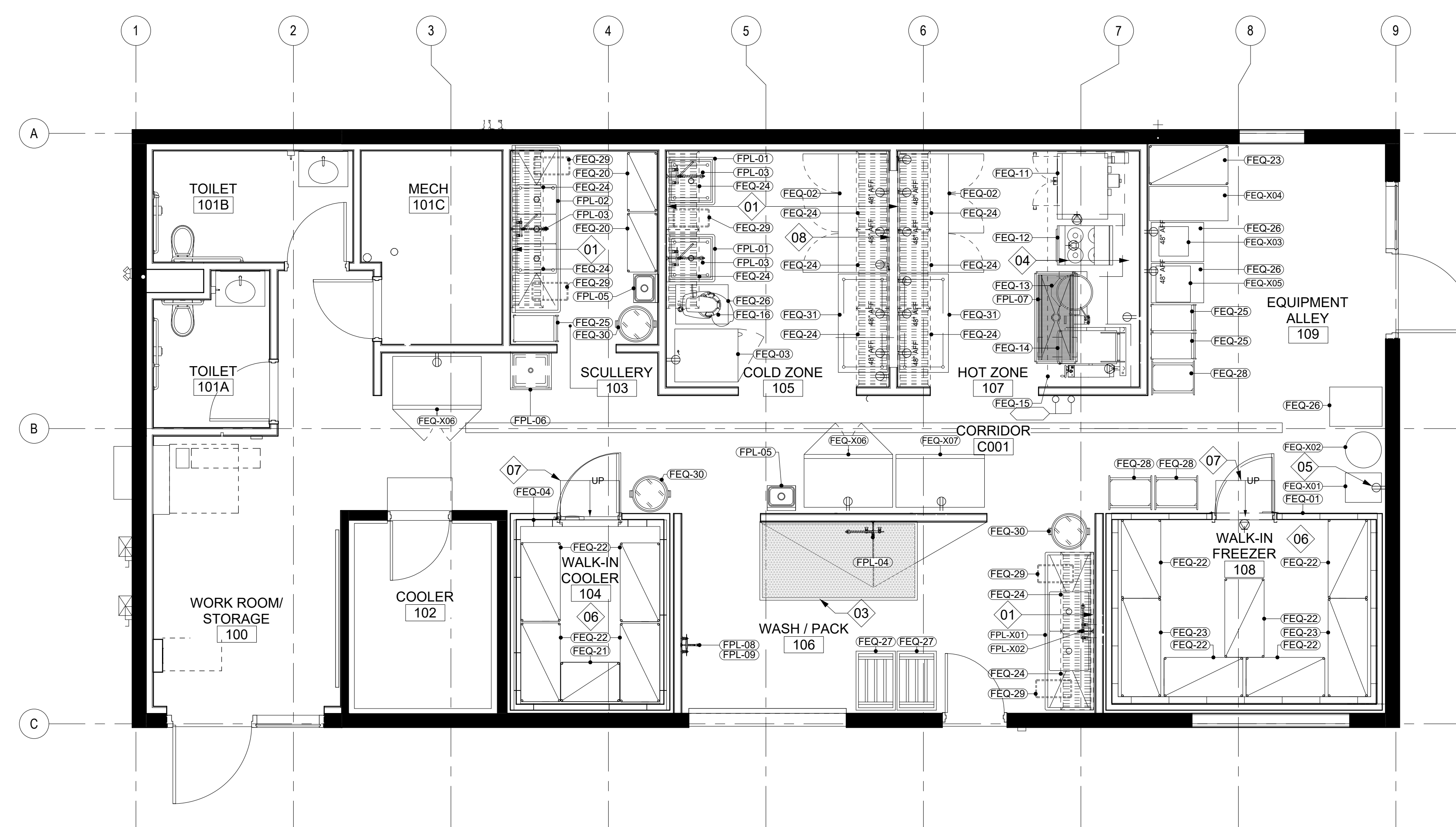
TYPE:						ACCESSORIES & OPTIONS				
K1 - DOE 2016 DRY TYPE					AUT - AUTOTRANSFORMER					AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE					BB - BUCK BOOST					CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE					LIQ - LIQUID FILLED					RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING										NV - NON-VENTILATED
PE - NEMA PREMIUM EFFICIENCY										NL - 200% RATED NEUTRAL
										EL - ELECTROSTATIC SHIELD
										TTM - TRANSFORMER TEMP MONITOR (REFER TO SPECIFICATION 26 59 13)
ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	PRIMARY VOLTS	PH	SECONDARY VOLTS	PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
BB-TR-3	3 kVA	K-1	NEMA 3R	150	208	1	240	1	AL	
BB-TR-7.5	7.5 kVA	K-1	NEMA 3R	150	208	1	240	1	AL	

LIGHTING SEQUENCE OF OPERATION	
PLAN ID	LIGHTING SWITCHED
(LS1)	SEQUENCE: Switched luminaires are manually controlled in this space. ON: Luminaires turn on manually to 100% via wall switch. OFF: Luminaires turn off manually via wall switch. EMERGENCY: Emergency units shall turn on automatically upon loss of normal power.
(LS2)	SEQUENCE: Switched luminaires are occupancy controlled in this space. ON: Luminaires shall turn on automatically to 100% via occupancy sensor or manually via wall sensor switch. OFF: After the space has been vacant for 15 minutes, the luminaires shall automatically turn off via occupancy sensor or manually via wall sensor switch. EMERGENCY: Emergency units shall turn on automatically upon loss of normal power.
(LS3)	SEQUENCE: Lights are photocell and time clock controlled. Refer to detail 2/E1.01. ON: The lights turn on via available daylight from exterior photocell or time clock. OFF: The lights turn off via available daylight from exterior photocell or time clock. EMERGENCY: Emergency battery backup lights will turn on upon loss of normal power.
(LS4)	SEQUENCE: Dimmable luminaires are occupancy controlled in this space. ON: Luminaires are automatically turned on to 50% via occupancy sensor. Luminaires are manually turned on to 100% via wall controller. ADJUST: Dimmable luminaires are raised/lowered via wall controller. OFF: After the space has been vacant for 10 minutes, the luminaires shall automatically turned off via occupancy sensor or can be turned off manually via wall controller. EMERGENCY: Emergency units shall turn on automatically upon loss of normal power.
(LS5)	SEQUENCE: switched luminaires are occupancy controlled in this space. ON: Luminaires are automatically turned on 100% via occupancy sensor. Luminaires are manually turned on to 100% via wall controller. OFF: After the space has been vacant for 15 minutes, the luminaires shall automatically turned off via occupancy sensor or can be turned off manually via wall controller. EMERGENCY: Emergency units shall turn on automatically upon loss of normal power.
(LS6)	SEQUENCE: Switched luminaires are vacancy controlled in this space. ON: Luminaires shall turn on automatically to 100% manually via wall sensor switch. OFF: After the space has been vacant for 15 minutes, the luminaires shall automatically turn off via vacancy sensor or manually via wall sensor switch.

MOUNTING: SURFACE ENCLOSURE: NEMA 1 FED FROM: 200/3P MCCB @ MDP LOCATION: WORK ROOM / STORAGE 100										PANEL P2 SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 250 MLO VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 22kA									
NOTES:																													
KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N	G	A	B	C	WIRE SIZE				OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY											
											G	N	H	P															
--	P2-1	Lighting	20	1	12	12	12	1.69	1.36			12	12	12	1	20	Receptacles, EF-1, EF-2	P2-2	--										
--	P2-3	Lighting	20	1	12	12	12		0.53	2			--	10	--	2	30	UH-2	P2-4	--									
--	P2-5	Exterior Lighting	20	1	10	10	10				0.06	2							P2-6	--									
--	P2-7	Time Clock	20	1	12	12	12	1	2				10	--	10	--	2	30	UH-1	P2-8	--								
--	P2-9	FACP	20	1	12	12	12		0.2	2										P2-10	--								
--	P2-11	Electric Ball	20	1	12	12	12				0.2	0.54	12	12	12	1	20	Receptacles	P2-12	--									
--	P2-13	Existing Greenhouse Load	20	1	10	10	10	0.5	0.6				12	12	12	1	20	UH-1	P2-14	--									
--	P2-15	Existing Greenhouse Blower	20	1	10	10	10		0.5	0.5			12	12	12	1	20	F-1	P2-16	--									
--	P2-17	Existing Greenhouse Control	20	1	10	10	10				0	1	12	12	12	1	20	CP-1	P2-18	--									
--	P2-19	EF-3	30	1	10	10	10	1.8	0.54				12	12	12	1	20	Receptacles	P2-20	--									
--	P2-21	Receptacles	20	1	10	10	10		0.54	0.54			12	12	12	1	20	Receptacles	P2-22	--									
--	P2-23	Receptacles	20	1	12	12	12				0.36	0.54	12	12	12	1	20	Receptacles	P2-24	--									
--	P2-25							5.57	0.54				12	12	12	1	20	Receptacles	P2-26	--									
--	P2-27	MAU-1	70	3	4	--	8		5.57	0.54			12	12	12	1	20	Receptacles	P2-28	--									
--	P2-29									5.57	0.54		12	12	12	1	20	Receptacles	P2-30	--									
--	P2-31	SPARE	20	1	--	--	--	0	0.18				12	12	12	1	20	Receptacles	P2-32	--									
--	P2-33							3.8	1.44				12	12	12	1	20	Receptacles	P2-34	--									
--	P2-35	CU-1	50	2	6	--	10				3.8	1.5	12	--	12	2	20	BB-TR-3	P2-36	--									
--	P2-37	SPARE	20	1	--	--	--	0	1.5				--	--	--	1	20	SPARE	P2-38	--									
--	P2-39	SPARE	20	1	--	--	--	0	0				--	--	--	1	20	SPARE	P2-40	--									
--	P2-41	SPARE	20	1	--	--	--				0	0	--	--	--	1	20	SPARE	P2-42	--									
--	P2-43	SPARE	20	1	--	--	--	0	0				--	--	--	1	20	SPARE	P2-44	--									
--	P2-45	SPARE	20	1	--	--	--		0	0			--	--	--	1	20	SPARE	P2-46	--									
--	P2-47	SPACE	--	1	--	--	--			--	--	--	--	--	--	1	--	SPACE	P2-48	--									
--	P2-49	SPACE	--	1	--	--	--	--			--	--	--	--	--	1	--	SPACE	P2-50	--									
--	P2-51	SPACE	--	1	--	--	--	--	--	--			--	--	--	1	--	SPACE	P2-52	--									
--	P2-53	SPACE	--	1	--	--	--	--			--	--	--	--	--	1	--	SPACE	P2-54	--									
--	P2-55	SPACE	--	1	--	--	--	--			--	--	--	--	--	1	--	SPACE	P2-56	--									
--	P2-57	SPACE	--	1	--	--	--	--	--	--			--	--	--	1	--	SPACE	P2-58	--									
--	P2-59	SPACE	--	1	--	--	--	--			--	--	--	--	--	1	--	SPACE	P2-60	--									
Total Load:								17.28 kVA	18.16 kVA	16.11 kVA																			
Total Amps:								145.46	152.80	134.23																			
LOAD SUMMARY																													
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*																	
HVAC			36.6 kVA			100.00%			36.6 kVA																				
Other			1.279 kVA			100.00%			1.279 kVA			TOTAL CONNECTED LOAD: 51.34 kVA																	
Power			0.2 kVA			100.00%			0.2 kVA			TOTAL ESTIMATED DEMAND LOAD: 51.339 kVA																	
			6 kVA			100.00%			6 kVA			TOTAL CONNECTED AMPS: 142.50 A																	
Receptacles			7.26 kVA			100.00%			7.26 kVA			TOTAL ESTIMATED DEMAND AMPS: 142.5																	
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																													
CIRCUT KEY NOTES:																													



C1 FOOD SERVICE UTILITIES PLAN
SCALE: 1/4" = 1' - 0"



E1 FOOD SERVICE EQUIPMENT PLAN
SCALE: 1/4" = 1' - 0"

EQUIPMENT SCHEDULE			
Item No	Equipment Category	Manufacturer	Model Number
FEQ-01	Freezer, Walk-In	Kolpak	Custom
FEQ-02	Refrigerator, Undercounter	True Mfg. - General Foodservice	TUC-72-HC
FEQ-03	Chiller/Freezer, Blast	American Panel	AP12BCF150-2-P
FEQ-04	Refrigerator, Walk-In Unit	Kolpak	KF8-0810-CR-4
FEQ-11	Conv Oven Double SS430 Kit 208V Elec	EFI Sales	HCV1-2-208V ELC
FEQ-12	Range, Heavy Duty, Electric	Imperial Range	IR-4-E
FEQ-13	Kettle, Steam Jacketed	Cleveland Range	KET-20-T
FEQ-14	Tilting Braising Pan, Electric	Groen	BPM-15EA
FEQ-15	Hood	CaptiveAire	ND-2
FEQ-16	Mixer, Counter	Hobart US Foodservice	HL200-1STD
FEQ-20	Shelving	Steelworks	SW1836C
FEQ-21	Shelving	Steelworks	SW2436C
FEQ-22	Shelving	Steelworks	SW2448C
FEQ-23	Shelving	Steelworks	SW2460C
FEQ-24	Shelving, Wall Mounted	New Age Industrial	1122PR
FEQ-25	Cart, Utility	Lakeside	316
FEQ-26	Stand, Equipment	Lakeside	738
FEQ-27	Dolly, Dunnage	Channel Manufacturing	MD2436
FEQ-28	Rack, Tray	Lakeside	135
FEQ-29	Trash Can	Rubbermaid	FG354060BLA
FEQ-30	Trash Can w/ Lid & Dolly	Lavex	475tc32bkkit
FEQ-31	Work Table	Steelworks	SWWTS-3060-318
FPL-01	1 Comp. Sinks	Steelworks	SWS1C242414-316
FPL-02	3 Comp. Sinks	Steelworks	SWS3C182414-24LR-318
FPL-03	Pre-Rinse Faucet, Wall Mount	Krowne	DX-109
FPL-04	Pre-Rinse Faucet, Wall Mount	Krowne	DX-109-X
FPL-05	Hand Sink, Wall Mount	Advance Tabco	7-PS-EC-SP
FPL-06	Mop Sink Storage Cabinet	Eagle Group/Metal Masters	F1916-VSCS
FPL-07	Floor Trough	Advance Tabco	FFTG-2454
FPL-08	Faucet, Service Sink	Krowne	16-127
FPL-09	Coiled Hose	HoseCoil Washdown Systems	HoseCoil PRO Series 25'
EXISTING EQUIPMENT SCHEDULE			
FPL-X01	2 Compartment Sink	EXISTING	
FPL-X02	Pre-Rinse Faucet, Wall Mount	EXISTING	
FEQ-X01	Commercial Dehydrator	EXISTING	
FEQ-X02	40 Liter Hydropress	EXISTING	
FEQ-X03	Electric Fruit Crusher	EXISTING	
FEQ-X04	Destemmer	EXISTING	
FEQ-X05	Vacuum Packing Machine	EXISTING	
FEQ-X06	Reach In Refrigerator	EXISTING	
FEQ-X07	Reach In Merchandiser Freezer	EXISTING	

FOOD SERVICE GENERAL NOTES

1. ALL FINISHES IN KITCHEN, WASHING, COLD STORAGE AND SCULLERY AREAS ARE TO BE NON-POROUS CLEANABLE SURFACES, SUCH AS FRP. EXPOSED CONCRETE FLOORS ARE TO BE SEALED. COVE BASE IS TO BE USED IN ALL FOOD PREPARATION AND STORAGE AREAS.
2. ALL STORAGE SHELVES ARE TO BE INSTALLED IN SUCH A WAY THAT THE LOWEST SHELF IS AT LEAST 6" AFF.
3. ADEQUATE LIGHT WITH A MINIMUM OF 20 FOOTCANDLES IS TO BE PROVIDED IN ALL FOOD PREPARATION AND STORAGE AREAS.
4. PROTECTIVE SHIELDING SHALL BE PROVIDED FOR ALL LIGHT FIXTURES OVER ALL PREPARATION, STORAGE, WARE WASHING, REFRIGERATION AND HOOD AREAS.
5. THERMOMETERS ARE TO BE LOCATED IN ALL REFRIGERATION UNITS.
6. ALL EXTERIOR DOORS ARE TO BE TIGHT FITTING WITH SELF-CLOSING DEVICES.
7. ALL RESTROOM DOORS ARE TO BE FITTED WITH SELF-CLOSING DEVICES.
8. ALL EXPOSED PLUMBING, ELECTRICAL, AND REFRIGERATION LINES ARE TO BE LOCATED 6" OFF THE FLOOR AND 1/2" AWAY FROM WALLS.
9. ALL OPERABLE WINDOWS ARE TO BE SCREENED WITH 16 MESHWINCH SCREENING.

KEYNOTES

- 01 PROVIDE IN-WALL BLOCKING PER ARCHITECTURAL SPECIFICATIONS FOR WALL MOUNTED SHELVING
- 02 NOT USED
- 03 EXISTING MESH TOP WASH TABLE
- 04 PROVIDE STRUCTURAL SUPPORT ABOVE FOR HOOD ATTACHMENT. PER MANUFACTURERS INSTRUCTIONS, HOOD TO BE HUNG WITH 1/2" THREADED RODS FROM BUILDING STRUCTURAL SUPPORT SYSTEM TO FACTORY PROVIDED WELDED-ON ANGLE MOUNTING BRACKETS ON HOOD
- 05 PROVIDE POWER FOR BENCHFOODS DEHYDRATOR AS FOLLOWS:
MAX POWER USAGE 3kW
AVG POWER USAGE 1.5 kW
VOLTAGE FREQUENCY 200-240/50-60hz
MAX AMPERAGE 12A
SAFETY BREAKER REQUIRED SINGLE PHASE/15A
POWER CABLE 3-WIRE CABLE, N6-20P PLUG T1P
- 06 KITCHEN CONTRACTOR TO DESIGN ASSOCIATED PIPING TO CONDENSING UNIT. REFER TO MECHANICAL DRAWINGS FOR GROUND MOUNTED CONDENSING UNIT LOCATION. WALK-IN DRAIN LINE TO BE COORDINATED WITH PLUMBING.
- 07 RAMP FOR WALK-IN TO BE PROCURED AND INSTALLED BY KITCHEN CONTRACTOR
- 08 FINAL CLEAR DIMENSION TO BE VERIFIED IN FIELD PRIOR TO CONFIRMATION OF WALL-HUNG SHELVING SIZES

DRAWING LEGEND

- FEQ-XX EQUIPMENT TAG
- FPL-XX PLUMBING FIXTURE TAG
- H+ HOT WATER CONNECTION
- C+ COLD WATER CONNECTION
- D+ DRAIN CONNECTION
- ⌚ DUPLEX OUTLET (REFER TO EQUIPMENT SPECIFICATIONS FOR MOUNTING HEIGHT)
- ⌚ 48" AFF DUPLEX OUTLET MOUNTED AT 48" AFF
- ⊙ HARDWIRED CONNECTION AT EQUIPMENT



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KEY PLAN:

SHEET STATUS: 04/21/2026
ISSUE FOR BID - NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

SHEET TITLE:
FOOD SERVICE PLANS

SHEET NUMBER:

QF1.01