OMAHA PUBLIC POWER DISTRICT TRAINING FACILITY PHASE 2 7264 L ROAD NEBRASKA CITY, NE 68410

1.	08 36 13 - SECTIONAL DOORS A. Superior Door, Wade Harvey, (402) 571-2999, www.superiordooromaha.com
2.	 13 34 19 - Metal Building Systems A. Kester Construction, Jeff Kester, (402) 359-4700, www.kesterconstructionomaha.com c Behlen approved installer.
3.	 27 41 34 - Audio Visual Systems A. AVI-SPL; 10351 Portal Rd. Omaha, NE 68128; (402) 509-3989 B. AVI Systems; 5055 S 111th St, Omaha, NE 68137; (402) 593-6500 C. CCS Presentation Systems; 11041 O St, Omaha, NE 68137; (402) 331-2320 D. CTi Technologies; 14990 Shepard Street, Suite 600, Omaha, NE 68138; (402) 593-6750
4.	 27 51 23 - Commercial Multi-Party Communications Systems A. GAI-TRONICS A Hubbell Company, 3030 Kutztown Road, Reading, PA, 19605; www.gai-tronics.com
5.	 28 13 00 - Access Control A. Paladin Technologies (formerly VTI Security); 11011 Q Street Building A Ste #101, Omaha, NE 68137; 402-210-2839
6.	28 23 00 - Video Surveillance A. Inteconnex; 4531 South 88th Street Suite B, Omaha, NE 68127; 402-779-7984

OPPD VENDOR LIST

		GENERAL		ARCHITECTURAL
	SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
В	CC-0 G1-0	COVER DRAWING STANDARDS, ABBREVIATIONS, PARTITION TYPES	A1-0 A1-1 A1-2 A1-3	FLOOR PLAN - LEVEL 1 NOT USED REFLECTED CEILING PLAN - LEVEL 1 NOT USED
	G1-1 G2-1	CODE SUMMARY / EXITING PLAN, ACCESSIBILITY STANDARDS	A1-4 A2-1	ROOF PLAN EXTERIOR ELEVATIONS
	G2-2 G3-0	ACCESSIBILITY STANDARDS	A2-2 A2-3	BUILDING SECTIONS BUILDING SECTIONS
	G3-0	PHOTOS	A3-1	WALL SECTIONS
		CIVIL	A4-1 - A4-2	NOT USED DETAILS
А	<u>SHEET NO.</u> C1.0 C2.0 C3.0	DESCRIPTION LEGEND SHEET EXISTING CONDITIONS ZONING COMPLIANCE PLAN	A5-0 A5-1	ENLARGED PLANS, INTERIOR ELEVATIONS, DETAILS DOOR SCHEDULE, FRAME SCHEDULE, DETAILS
	C4.0 C5.0 C6.0 C7.0	GRADING PLAN UTILITY PLAN PAVING PLAN DETAIL SHEET	A6-0	FURNITURE, FIXTURE, EQUIPMENT PLAN - LEVEL 1
		1	2	

PERMIT/CONSTRUCTION DRAWINGS

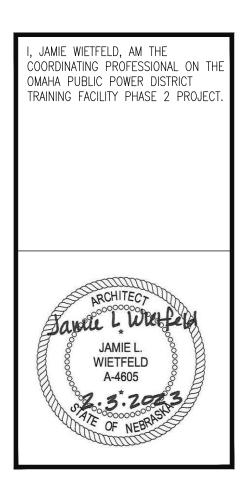
FEBRUARY 3, 2023 BCDM PROJECT NO. 5396-00

			SHEET IN	DEX	K			
	STRUCTURAL			MECHANICAL				
N	<u>SHEET NO.</u> S0-0 S1-0 S1-2	FOUNDATIO	ON STRUCTURAL NOTES DN PLAN AND DETAILS LAN AND DETAILS		SHEET NO. FP-1 M1-1 M2-1 M3-0 M3-1 M4-1 M4-2 M5-1 M5-2 M5-3	DESCRIPTION FLOOR PLANS - FIRE PROTECTION FLOOR PLANS - HVAC FLOOR PLANS - MECHANICAL PIPINO BELOW GRADE PLAN - PLUMBING FLOOR PLANS - PLUMBING MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL SCHEDULES PLUMBING FIXTURE SCHEDULE	HEET NO. 0-0 1-1 2-1 3-1 4-1 4-2 4-3 5-1 5-2 6-1 6-2	
	3			4		5		

ALTERNATES

DEDUCT THE INSTALLATION OF DATA CABLING, JACKS, FACEPLATES AND CABLING TERMINATIONS, TESTING, AND LABELING. WORK TO BE COMPLETED BY OPPD TECH GROUP.

GENERAL / LOW VOLTAGE CONTRACTOR RESPONSIBLE FOR BUILD OUT OF DATA ROOM, OVERHEAD LADDER RUNWAY, RACKS, PATCH PANELS, MANAGERS, FIBER PANELS, FIBER, GROUNDING, ETC. AS PART OF THE BASE BID.



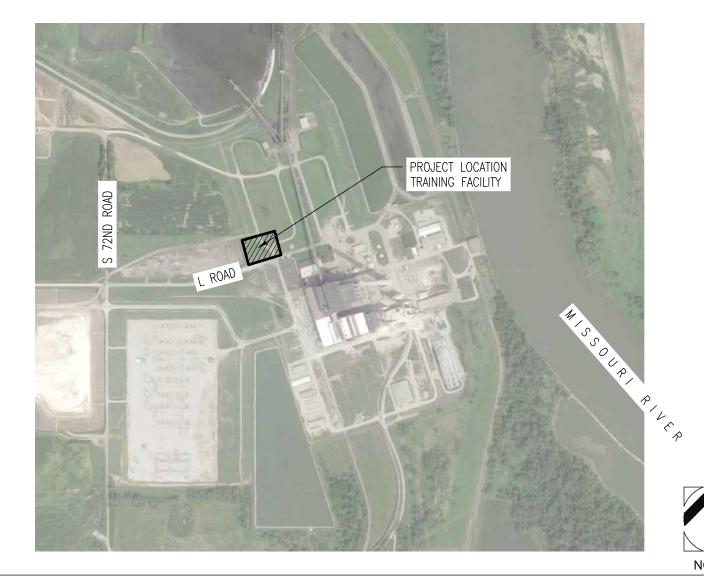
8

ELECTRICAL

DESCRIPTION

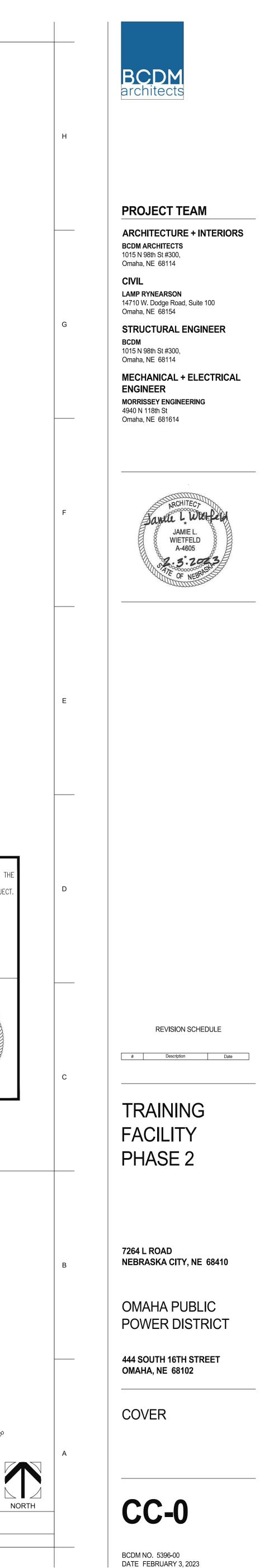
ELECTRICAL COVER SHEET SITE UTILITY PLAN - ELECTRICAL FLOOR PLAN - LIGHTING FLOOR PLANS - POWER **FLOOR PLANS - SPECIAL SYSTEMS** ELECTRICAL DETAILS SPECIAL SYSTEMS DETAILS SPECIAL SYSTEMS DETAILS ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES AUDIO / VISUAL PLANS AUDIO / VISUAL DETAILS

6

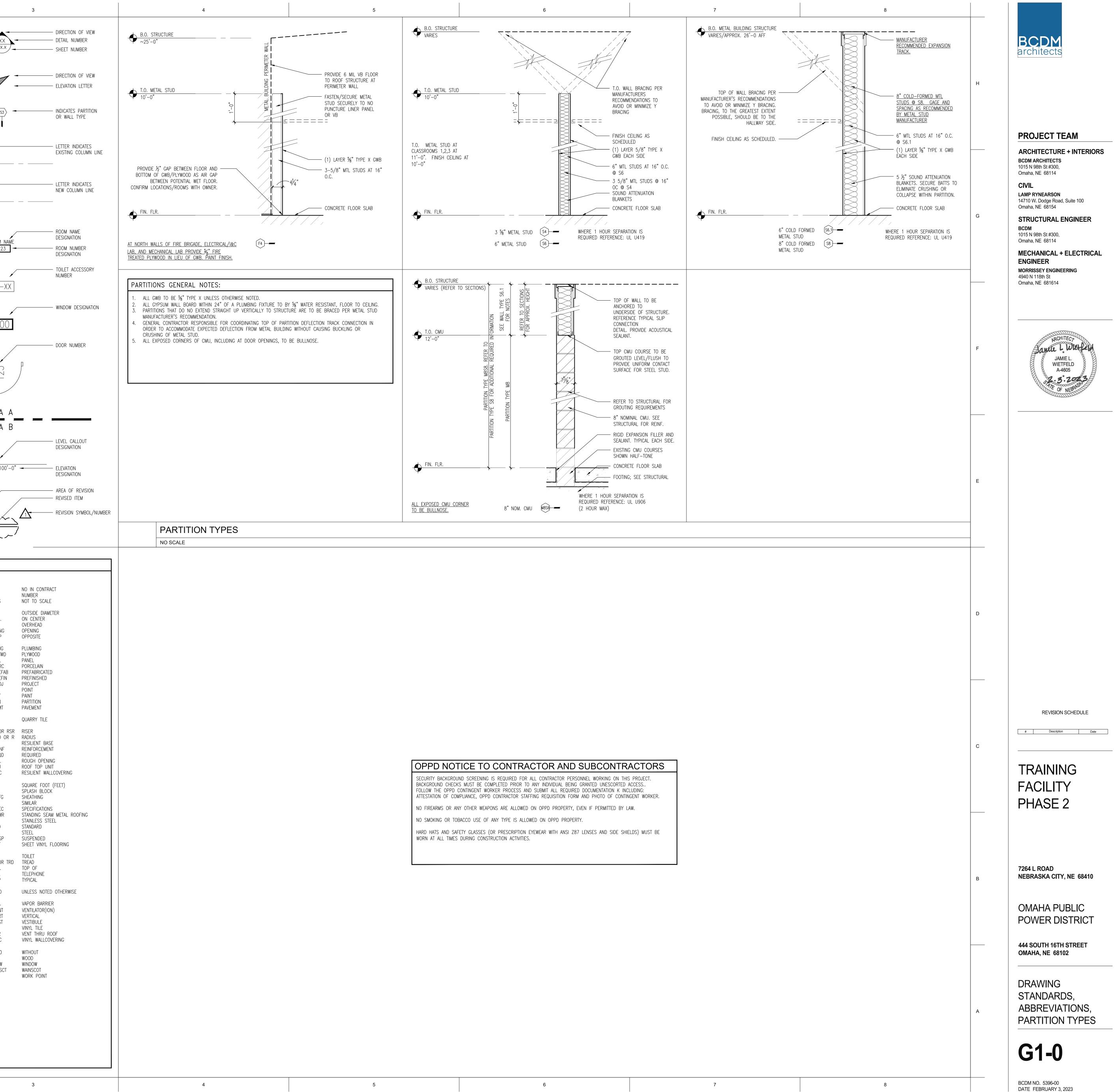


LOCATOR MAP

NO SCALE:



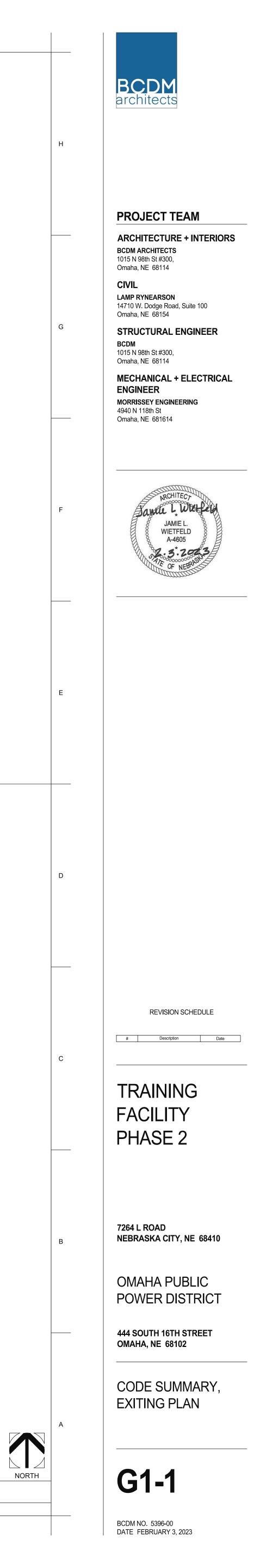
	1	2		
	TITLE MARKER	- DETAIL NUMBER - DETAIL TITLE	ELEVATION	XX AX.X
н	D1 FLOOR PLAN - LEVEL			A
		- DETAIL SCALE - DIRECTION OF VIEW	DETAIL PHOTO	(33)
	WALL SECTION/DETAIL	- SECTION/DETAIL NUMBER - SHEET NUMBER	PARTITION TYPE	l
	BUILDING CROSS SECTION	- DIRECTION OF VIEW - SECTION/DETAIL NUMBER - SHEET NUMBER	EXISTING COLUMN GRIDLINE	
G	PLAN DETAIL	- DETAIL NUMBER - SHEET NUMBER	NEW COLUMN GRIDLINE	
	MULTIPLE ROOM	- ELEVATION LETTER - DETAIL NUMBER	TOILET ACCESSORY	ROOM NA
	ELEVATIONS $P \begin{pmatrix} XX \\ AX,X \\ C \end{pmatrix} = C$	- SHEET NUMBER	TOILET ACCESSORY	TA-X
	REFERENCE NOTE	- REFERENCE DESIGNATION	WINDOW DESIGNATION	000
F	DEMOLITION NOTE	- DEMOLITION DESIGNATION		
		- EQUIPMENT NUMBER	DOOR NUMBER	123
	EQUIPMENT DESIGNATION (XXX-NN)	- SIGNAGE LOCATION	MATCHLINE	AREA
	SIGNAGE DESIGNATION		MATCHLINE	AREA
Е	CORNER GUARD	- CORNER GUARD	DATUM	• XXX EL.=100'
	NORTH ARROW		REVISION	
	NORTH PLAN NORTH	TRUE NORTH		~~~~
D	 GENERAL NOTES: A. ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO FULL SCOPE OF WORK. CONTRACTOR SHALL NOT BE ALLOWED EXTRA COSTS DUE T ENTIRE SET OF DOCUMENTS. B. CONTRACTOR SHALL TAKE ALL MEASUREMENTS FOR WORK AND BE RESPONSIBLE FOF SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO OWNE WORK AND SHOP DRAWINGS WITH ALL OTHER TRADES AFFECTED. C. FINE FULL-TONE LINES INDICATE EXISTING CONSTRUCTION TO REMAIN. THICK FULL- NEW OR RELOCATED CONSTRUCTION. D. DIMENSIONS ARE TYPICALLY TO FINISH FACE OF MASONRY, CONCRETE, GYPSUM WALL FRAMES; OR CENTER LINE OF COLUMN OR BEAMS, UNLESS NOTED OTHERWISE. DOC TO OUTER EDGE OF FRAME. E. PROVIDE FIRE TREATED 2x6 OR LARGER WOOD BLOCKING IN WALLS AND FURRING SF FOR MOUNTING OF ALL WALL SUPPORTED ITEMS. F. PROVIDE TREATED BLOCKING AT POINTS WHERE WOOD FRAME ASSEMBLIES ARE IN CO CONCRETE. G. ALL SKYWARD FACING JOINTS TO BE SEALED. H. EXPOSED PORTIONS OF STEEL LINTELS (OVER DOORS, WINDOWS, ETC.) ARE TO BE F COLOR BY ARCHITECT. I. AT INTERIOR PARTITIONS, PROVIDE GWB CONTROL JOINT AT EACH CORNER OF OPENIN OF WALL TO FINISH GWB CEILING OR A MINIMUM OF 6" ABOVE ACOUSTICAL TILE CEI NOT REQUIRED IF WITHIN 4" OF A PERPENDICULAR PARTITION ON SAME SIDE. 	O FAILURE TO REVIEW C SAME. CONTRACTOR R. COORDINATE THE TONE LINES INDICATE BOARD, AND METAL OR DIMENSIONS ARE PACES AS REQUIRED ONTACT WITH RIMED AND PAINTED. NG ON BOTH SIDES	ABANCHOR BOLTAFFABOVE FINISH FLOORAHUAIR HANDLING UNITALALUMINUMALTALTERNATEAPPROXAPPROXIMATEARCHARCHITECTURAL OR ARCHITECTATCACOUSTICAL TILE CEILINGBATTBATT INSULATIONBLDGBUILDINGBLKGBLOCKINGBMBEAMB.O.BOTTOM OFBRNGBEARINGCGCORNER GUARDCIPCAST IN PLACECJCONTROL JOINTCLGCEILINGCLRCLEARCMUCONCRETE MASONRY UNITCONCCONCRETECTCERAMIC TILE	NIC NO NTS OD O.C. OH OPNG OPP PLBG PLYWD PNL PORC PREFAB PREFIN PROJ PT PNT PTN PTN PVMT QT
C			DIA DIAMETER DIM DIMENSION DN DOWN DS DOWNSPOUT DWG DRAWING EA EACH EJ EXPANSION JOINT EL OR ELEV ELEVATION – GRADE OR BUILDING ELEC ELECTRIC OR ELECTRICAL ELEV ELEVATOR EQUIP EQUIPMENT EW EACH WAY EWC ELECTRIC WATER COOLER	SF SB SHTG SIM SPEC
B	EXISTING PARTITION AND EEXISTING PARTITION EEXISTING PARTITION/DEMOLITION EEXISTING PARTITION PARTITION/DEMOLITION EEXISTING PARTITION PARTITION PARTITION EEXISTING PARTITION		FDFLOOR DRAIN FEFEFIRE EXTINGUISHER FECFINFIRE EXTINGUISHER CABINETFINFINISH FLASHFLASHFLASHING FTFTFEET (FOOT) FTGGALVGALVANIZED GLASS OR GLAZING GYPGWBGYPSUM WALL BOARD GYPHCHANDICAPPED HOR HOLLOW METALINSULINSULATION INTERIORJBOXJUNCTION BOX JTLAVLAVATORY	SSMR SS STD STL SUSP SVF TLT T OR TI T.O. TEL TYP UNO V.B. VENT VEST VT VEST VT VTR VWC W/O WD WDW
A			MTL MATERIAL MAX MAXIMUM MECH MECHANICAL MFG MANUFACTURING MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS	WDW WNSCT WP
	1	2		

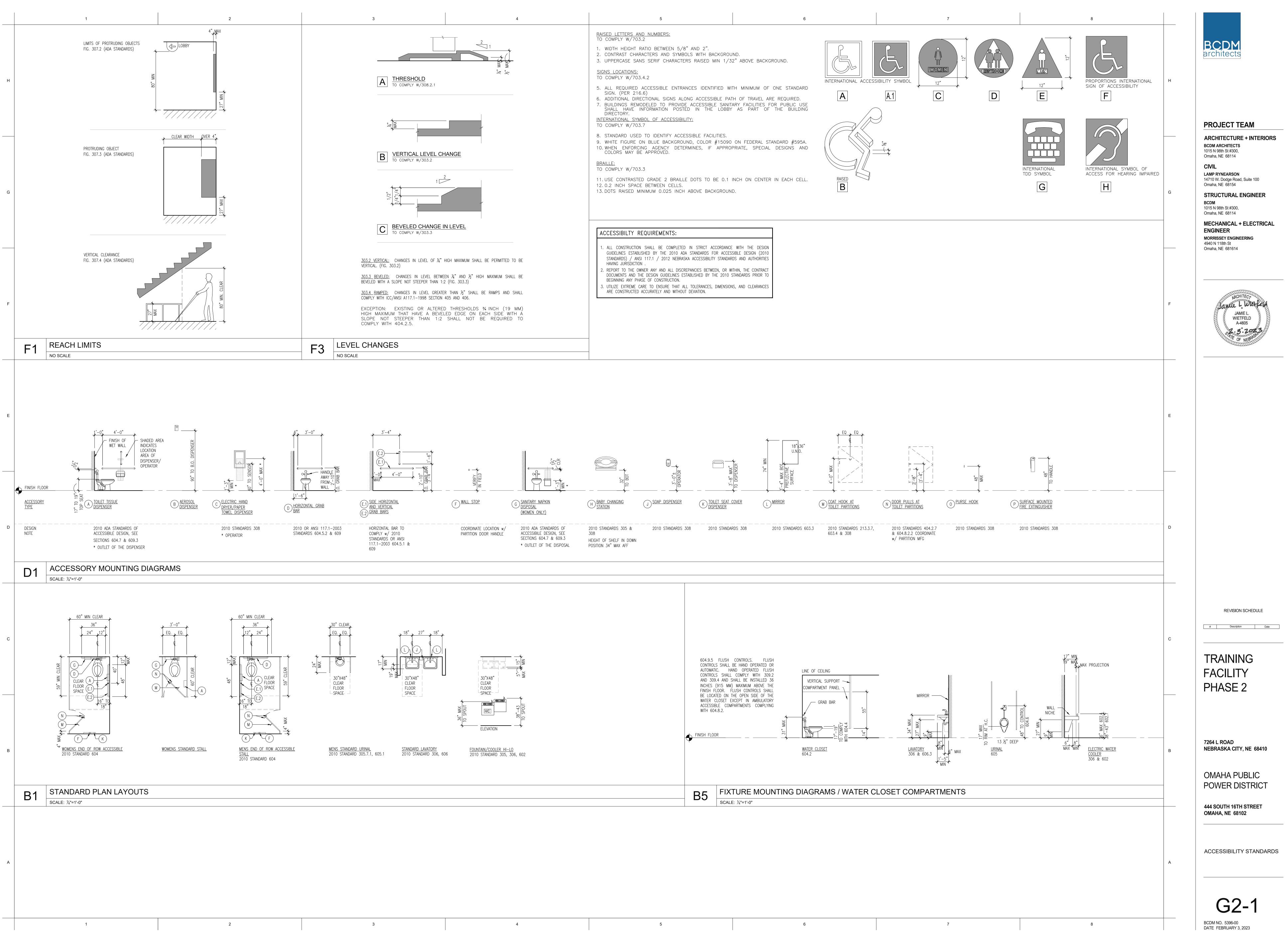


	1		2	3
	CODE SUMMARY			
Н	GOVERNING CODE: INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL PLUMBING CODE NATIONAL ELECTRIC CODE INTERNATIONAL ENERGY CONSERVATION CODE INTERNATIONAL FUEL GAS CODE AMERICAN WITH DISABILITIES ACT (ADA)	2012 EDITION 2012 EDITION 2012 EDITION MOST RECENT EDITION 2018 EDITION 2012 EDITION 2010 EDITION		
	NFPA LIFE SAFETY CODE 101 <u>PROJECT DESCRIPTION:</u> THIS PROJECT CONSISTS OF THE CONSTRUCTION FACILITATE GENERAL OFFICE, TRAINING, AND LAB STUD AND GWB PARTITIONS, CMU PARTITIONS, A MECHANICAL, AND ELECTRICAL WORK. <u>LEGAL DESCRIPTION:</u> 31–8–15 NW1/4 & N1/2 N1/2 SW1/4 & W1	TORY FUNCTIONS. INTERIOR CONSTRUCTION (ISTICAL PANEL CEILINGS, AND GENERAL/SUPP(CONSISTS OF METAL DRTING PLUMBING,	
G	ZONING: OCCUPANCY CLASSIFICATION/IBC SECTION 308.4 OCCUPANCY SEPARATION PER TABLE 508.4 TYPE OF CONSTRUCTION/IBC TABLE 601 FIRE SUPPRESSION SYSTEM:	NOT APPLICABLE B NO SEPARATIONS REQUIRED II–B (0,0,0)		
	PROVIDED <u>MAXIMUM FLOOR AREA ALLOWANCES PER OCCUP</u> PER IBC TABLE 1104.1.2	OCCUPANCY FLOC ACCESSORY STORAGE 300 ASSEMBLY (UNCONCENTRATED) 15 N BUSINESS 100	GROSS IET GROSS GROSS	
F	LOCKS AND LATCHES: PER IBC SECTION 1008 PROVIDE EXIT HARDWARE CONSISTENT WITH IBC	179 0.2 INCHES CTION 1008 AND IN ACCORDANCE WITH ASSUM	IED	
	OCCUPANCY/USES. <u>COMMON PATH OF EGRESS TRAVEL:</u> PER IBC SECTION 1014.3, EXCEPTION 1. (DEFINITION PER NFPA 2000 EDITION, 3.3.32) <u>EXIT ACCESS TRAVEL DISTANCE:</u> PER IBC TABLE 1016.1 PER NFPA 101 38.2.6	100' 300' 300'		
Е	CORRIDOR FIRE-RESISTANCE RATING PER IBC TABLE 1018.1DEAD ENDS: PER IBC TABLE 1018.4 EXCEPTION 2 PER NFPA 101 38.2.5.2, SPRINKLER EXCEPTION TRAVEL DISTANCE BETWEEN PORTABLE FIRE EXT PER NFPA 10, 2012	NONE REQUIRED 50' 50' JISHER: 75'		
	PENETRATIONS-FIRE-RATED WALLS AND PARTITIC PER NFPA 90A, 3-3.1.1 2012 EDITION	FIRE DAMPERS NOT REQUIRED AS F THRU 1 HOUR PARTITIONS.	PENETRATIONS ARE	
	LEGEND			
	14	- EXIT/OCCUPANT LOAD AT DOOR		
D	EXIT 14 EGRESS PATH TRAVEL DISTANCE TO EXIT 75' ROOM DATA 161 300	START POINT/RE	EMOTEST POINT	
	FIRE EXTINGUISHERS	OCCUPANTS OCCUPANTS FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER BRACKET AED (AUTOMATED EXTERNAL DEF	IBRILLATOR)	25'-0"
С	SMOKE SEPARATION 1 HOUR SEPARTAION	REFER TO EQUIPMENT PLAN FOR SM SM S 1HR 1HR	M	
				75'-0" 25'-0"
В				
A				م م EXITING PLAN - LEVE
	1		2	A3 EXITING PLAN - LEVE SCALE: ½"=1'-0"

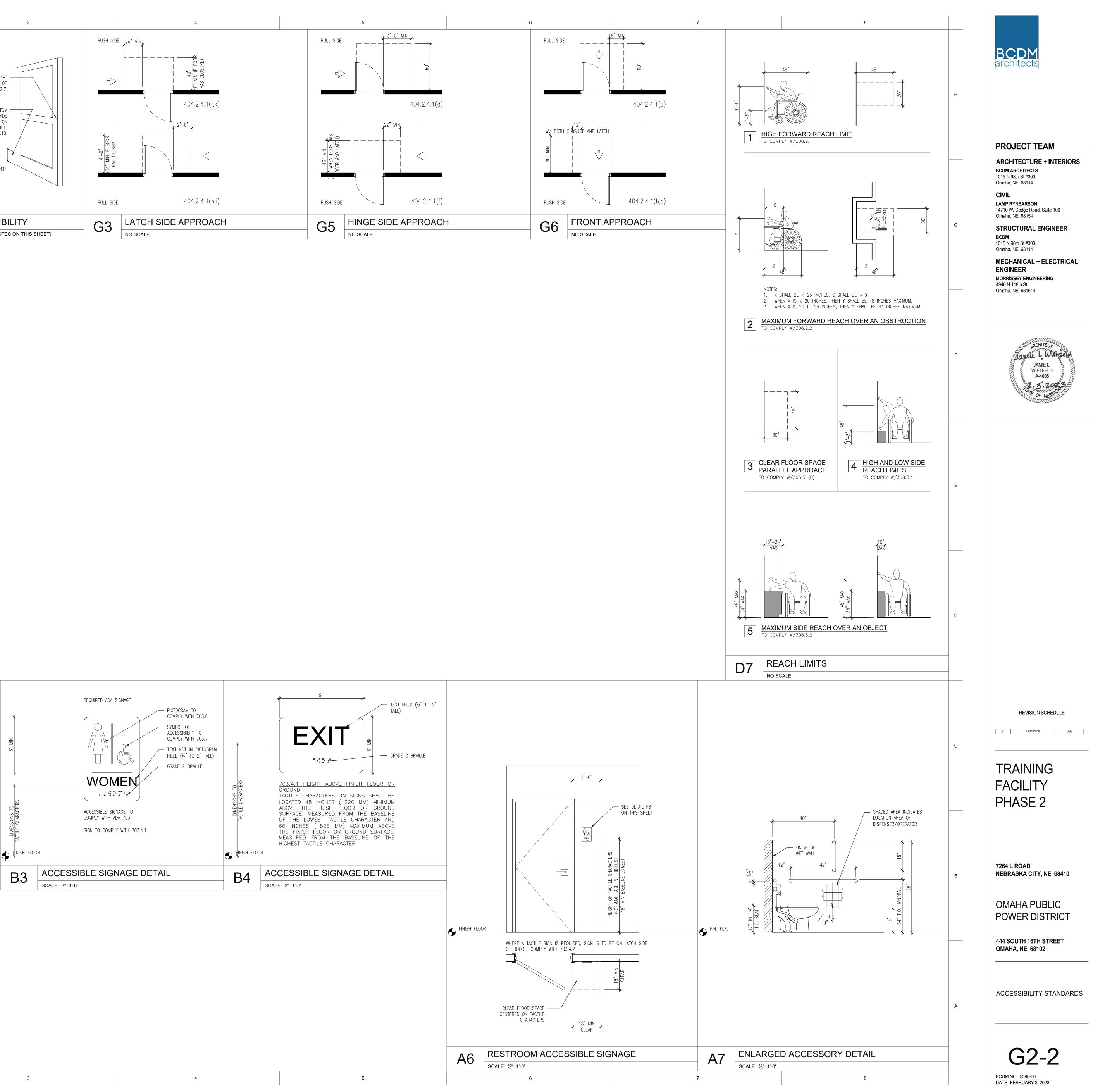
EXITING PLAN - LEVEL 1 SCALE: 1/8"=1'-0"

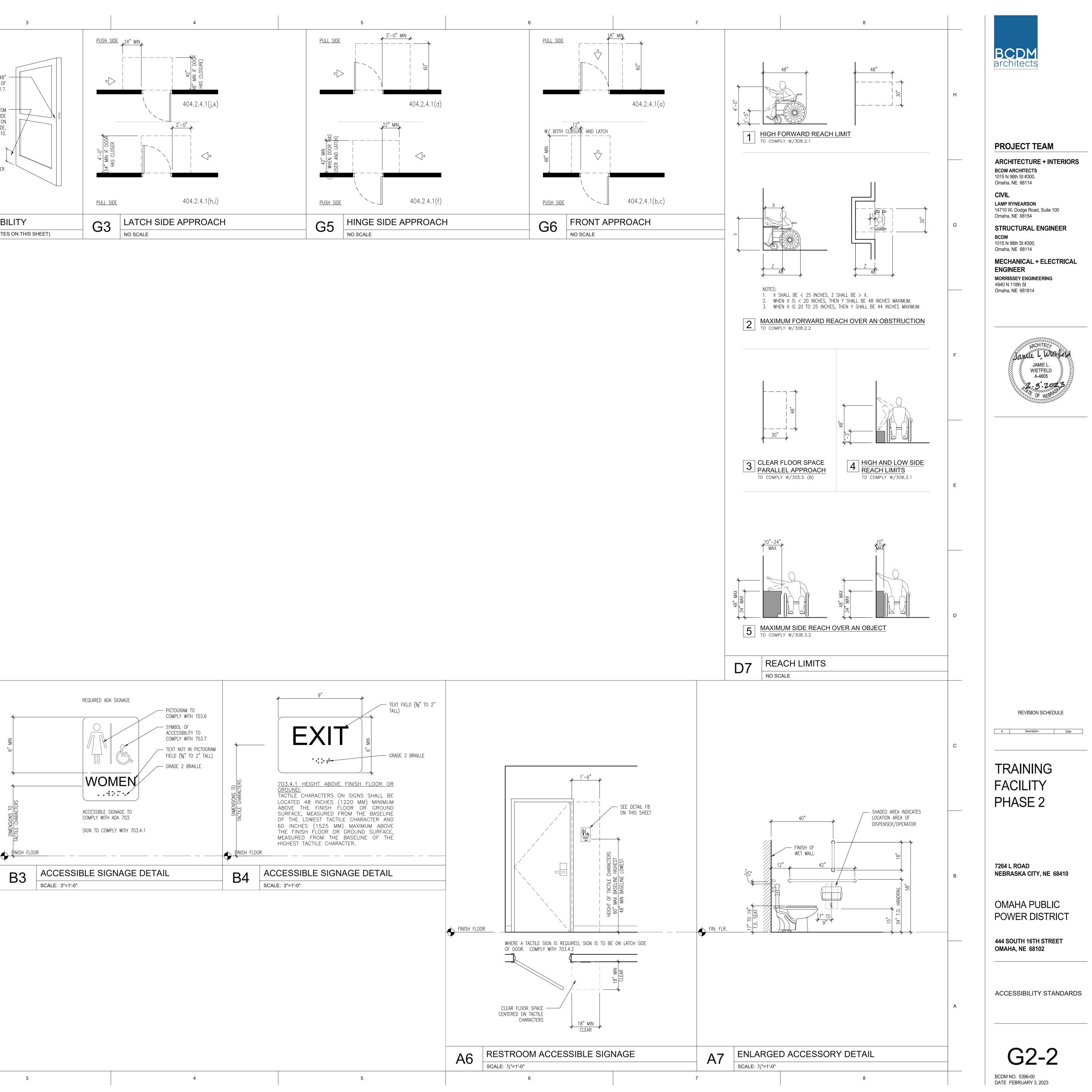






	1	2	3	
	DOOR ACCESSIBILITY NOTES:			<u>PUSH_SID</u>
н	<u>404.2.3 CLEAR WIDTH:</u> DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES		34" TO 48" BLE PARTS OF WARE, 404.2.7.	\$
	 (100 MM). EXCEPTIONS: 1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (16 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP. 2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND. 	RAI	" MIN. BOTTOM IL OR PROVIDE KICK PLATE ON PUSH SIDE, 404.2.10.	DOOR
	404.2.4MANEUVERINGCLEARANCES:MINIMUMMANEUVERINGCLEARANCESATDOORSANDGATESSHALLCOMPLYWITHTABLE404.2.4.1.MANEUVERINGCLEARANCESSHALLEXTENDTHEFULLWIDTHOFTHEDOORWAYANDTHEREQUIREDLATCHSIDEORHINGESIDECLEARANCE.404.2.5THRESHOLDS:THRESHOLDS, IFPROVIDEDATDOORWAYS, SHALLBE½INCH(13MM)HIGHMAXIMUM.RAISEDTHRESHOLDS ANDCHANGESINLEVELATDOORWAYSSHALLCOMPLYWITH302AND303.EXCEPTION:EXISTINGORALTEREDTHRESHOLDS¾INCH(19MM)HIGHMAXIMUMTHATHAVEABEVELEDEDGEONEACHSIDENOTSTEEPERTHAN1:2SHALLNOTBEREQUIREDTOCOMPLYWITH		BBER BUMPER CHAIR	4'-0" (54" MIN IF DOOR HAS CLOSER
G	404.2.5. <u>404.2.8.1 DOOR CLOSERS AND GATE CLOSERS:</u> DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.	G2 DETAIL-DOOR ACC	CESSIBILITY	<u>PULL SIDE</u> G3
	<u>404.2.9 DOOR AND GATE OPENING FORCE:</u> FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS: 1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM. 2. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.	NO SCALE (SEE DOOR ACCESSI	BILITY NOTES ON THIS SHEET)	
	CONTROL & DEVICE ACCESSIBILITY:			
F	309.2 CLEAR FLOOR SPACE: A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED. 309.3 HEIGHT: OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308. 309.4 OPERABLE PARTS OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.			
E				
D				
				REQUIRED ADA S
С				
			^م ً	
			S TO ACTERS	ACCESSIBLE SIGN
			DIMENSIONS TO TACTILE CHARACTERS	COMPLY WITH AD SIGN TO COMPLY
В			B3 ACCES	SIBLE SIGN
			SCALE: 3"=1	'-0"
А				
	1	2	3	

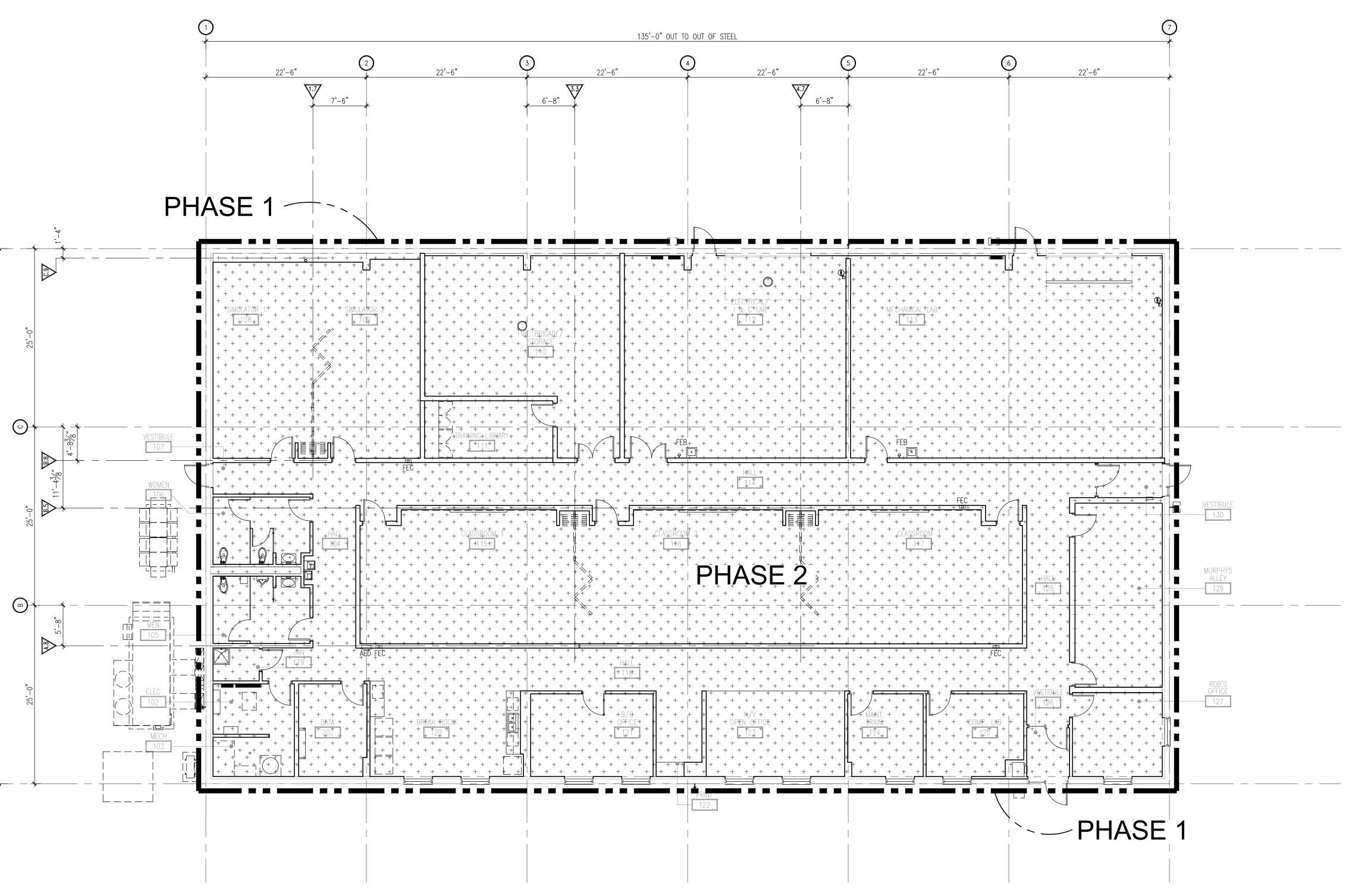




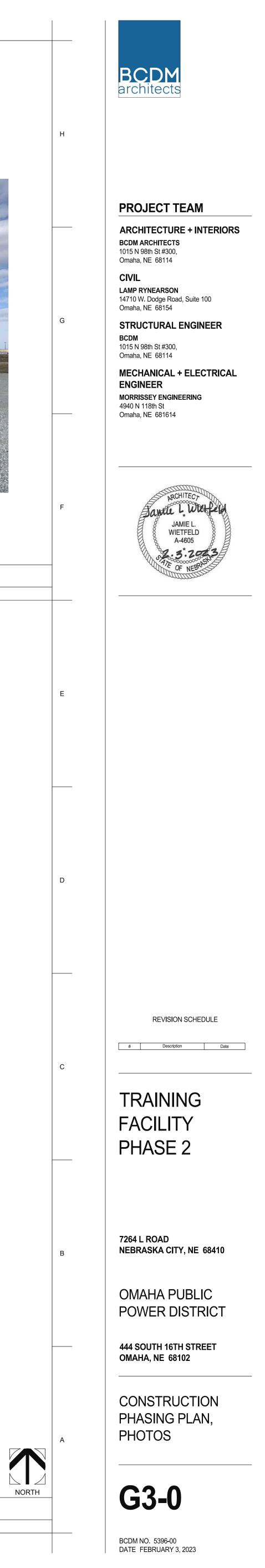
	1	2		
н				
G				
F			F3	PHOTOS
E	PHASESPHASE 1• EXISTING - NO NEW WORK+ + + + + + + + + + + + + + + + + + +	3 POLE		NO SCALE
D	SITE PAVING CONSTRUCT SIMULATORS CONSTRUCT LABS CONSTRUCT FIRE BRIGADE STC	DRAGE ROOM		25'-0"
С				75'-0" 25'-0"
В				25'-0"
A				
	1	2	A3	CONSTR SCALE: ½"=1'-0"



OTOS OF EXISTING CONDITIONS



NSTRUCTION PHASING PLAN



	DRAINAGE
100 YEAR	100 YR
500 YEAR	500 YR
100 YEAR EGL	
10 YEAR EGL	
2 YEAR EGL	
5 YEAR EGL	
100 YEAR HGL	100YR HGL
10 YEAR HGL	10YR HGL
2 YEAR HGL	
5 YEAR HGL	
FLOOD WAY	FLDWY FI
	PARCEL
	PARCEL
PROPERTY LINE	
PROPOSED LOT LINE	
EXISTING LOT LINE	
SECTION LINE	
EASEMENT	
<u>GENERA</u> ADA	ABBREVIATIONS
BC	BACK OF CURB
BOSW BP	BACK OF WALK BOTTOM OF PIPE
BW C	BOTTOM OF WALL COMPUTED DIMENSION
CATV	CABLE TELEVISION
CF CL	CUBIC FOOT CENTERLINE
CMP	CORRUGATED METAL PIPE
CP CY	CONTROL POINT CUBIC YARD
DIA	DIAMETER
DIP E	DUCTILE IRON PIPE EAST
ELEV. EOG	ELEVATION EDGE OF GRAVEL
FES	FLARED END SECTION
FFE FG	FINISH FLOOR ELEVATION FINISHED GRADE
FH	FIRE HYDRANT
FL G	FLOWLINE GAS
GB	GRADE BREAK
HP/LP HORIZ	HIGH POINT/LOW POINT HORIZONTAL
IE	INVERT ELEVATION
LF M	LINEAR FEET MEASURED DIMENSION
MH ME	MANHOLE MATCH EXISTING
ME N	NORTH
N.T.S. OT	NOT TO SCALE OPEN TOP PIPE
Ρ	PLAT DIMENSION
PC PI	POINT OF CURVATURE
FI	POINT OF INTERSECTION
PL	PROPERTY LINE

2	BOTTOM OF MALE
С	COMPUTED DIMENSION
CATV	CABLE TELEVISION
CF	CUBIC FOOT
CL	CENTERLINE
СМР	CORRUGATED METAL PIPE
CP	CONTROL POINT
CY	CUBIC YARD
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
	EAST
	ELEVATION
ELEV.	
	EDGE OF GRAVEL
FES	FLARED END SECTION
	FINISH FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
	FLOWLINE
G	GAS
GB	GRADE BREAK
HP/LP	HIGH POINT/LOW POINT
HORIZ	HORIZONTAL
IE	INVERT ELEVATION
LF	LINEAR FEET
М	MEASURED DIMENSION
мн	MANHOLE
	MATCH EXISTING
N	NORTH
N.T.S.	NOT TO SCALE
OT	OPEN TOP PIPE
P	PLAT DIMENSION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
	PINCHED TOP PIPE
PVC	POLYVINYL CHLORIDE
	POINT OF VERTICAL CURV
PVI	POINT OF VERTICAL INTER
PVT	POINT OF VERTICAL TANG
X 1020.12	SPOT ELEVATION
R	RECORD DIMENSION
RB	REBAR
RCP	REINFORCED CONCRETE F
ROW	RIGHT OF WAY
S	SOUTH
SF	SQUARE FEET
SS	SANITARY SEWER
ST	STORM
STA	STATION
STD	STANDARD
SW	SIDEWALK
Т	TELEPHONE
тс	TOP OF CURB
TOF	TOP OF FOUNDATION
TOG	TOP OF GRADE
TOI	TOP OF ISLAND
TP	TOP OF PAVEMENT
TS	TOP OF SLAB
TW	TOP OF WALL
TYP.	TYPICAL
VERT	VERTICAL
W	
	WEST
WQCV	WATER QUALITY CAPTURE
YPC	YELLOW PLASTIC CAP

	2	
	LINETYPES	
	PROPOSED	
AIR		10
CABLE	CA CA CA	
CONDUIT		- 100 YE
CONSTRUCTION FENCE	CF CF CF	10 YE
DRAIN TILES	DR DR DR	— 2 YE
FENCE	x x x	— 5 YE
FENCE BARBED WIRE		100 YE
FENCE STEEL	0 0	— 10 YE
		— 2 YE
	[] []	— 5 YE
	F0 F0	
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	F M F M	PR
GRAVEL AND DIRT	<u> </u>	E
EDGE	IRR — IRR — IRR — IRR —	SECTIO
NON POTABLE		
WATER	OIL OIL	
	0/G 0/G	
OVERHEAD POWER		_
OVERHEAD TELEPHONE	ОНТ ОНТ ОНТ	
	ОНИ ОНИ ОНИ	
POWER	P P P	— <u> </u>
RAW WATER	RW RW RW	
ROOF DRAIN		B
SANITARY SEWER	ss ss ss	
STORM SEWER	st st st	c
TELEPHONE	TTTT	C
UNDER DRAIN	UD UD	
UNIDENTIFIED UTILITY		
UTILITY	U U U	DI
WATER	w w w	E
LIMITS OF CONSTRUCTION		
LIMITS OF DISTURBED AREA	LDA LDA LDA	— Ff
<u>E</u>	ROSION CONTORL	F(
EARTH BERM	EBEB	
EARTH DIVERSION	ED ED	GI
EROSION CONTROL LOG	ECL ECL	Н
FENCE	xxx	
FILL DIVERSION	FDFDFD	М м
FLOW ARROW	\longrightarrow	M
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INTERCEPTOR SWALE	$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$	
LEVEL SPREADER	\longrightarrow > \longrightarrow > \longrightarrow	PI
LEVEL TERRACE	LTLTLT	P'
SEDIMENT CONTROL LOG	SCL SCL	P' P.
SILT FENCE		Pי P'
STRAW WATTLE	SWSWSW	— x
TEMPORARY DITCH	TDTDTD	R
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FLOW LINE		·· VI W

2

EXISTING				
AIR	AIR	AIR		
CA	CA	CA		
CF	CF	CF		
DR	DR	DR		
———— E ——	——— E ———	—— E ———		
X	X	×		
0	0			
	///			
[]	[]			
FO	——— F0 ———	FO		
FP	FP	FP		
>	·	\rightarrow \rightarrow $-$		
FM	FM	FM		
G	G	G		
	++++			
IRR	IRR	IRR		
NPW	NPW	NPW		
OIL	OIL	OIL		
0/G	0/G	0/G		
OHP	OHP	OHP		
OHT	OHT	OHT		
——— они ———	OHU	OHU		
——— P ——	——— P ———	P		
RW	RW	RW		
RD	RD	RD		
SS	SS	SS		
ST	ST	ST		
T	T	— т —		
UD	UD	UD		
UU	UU	UU		
U	U	U		
W	W	w		
F	RECORD			
_	—			
——————————————————————————————————————	— —R–A— — -	— —R–A— — —		
		— —R-A— — — — —R-CA— — -		
— —R–CA— — –	— —R-CA— —			
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RCA	R-CA R-FO R-G R-SS R-ST R-T PR- P	— — R—CA— — — — — — R—E— — — — — — — R—FO— — — — — — R—G— — — — — — R—SS— — — — — — R—SS— — — — — — R—ST— — — — UGP— — — — — —		
RCA	R-CA R-E R-FO R-G R-SS R-ST R-T R-T R	— — R—CA— — — — — — R—E— — — — — — — R—FO— — — — — — R—G— — — — — — R—SS— — — — — — R—SS— — — — — — R—ST— — — — UGP— — — — — —		
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RCA	R-CA R-FO R-G R-SS R-ST 	— — R—CA— — — — — — R—E— — — — — — — R—FO— — — — — — R—G— — — — — — R—SS— — — — — — R—ST— — — — — — R—T— — — — UGP— — — — — — — — R—U— — — —		
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R-CA	R - CA	R-CA		
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INAGE	
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	—500 YR————
-100YR EGL	
	— 2YR EGL————
	— 5YR EGL————
-100YR HGL	
	- 10YR HGL
	-2YR HGL
	-5YR HGL
RCEL	

3

TREE DECIDUOUS	\bigcirc
TREE CONIFEROUS	
BUSH	for a start
BOULDER	
ARROW LEFT	٦
ARROW RIGHT	~
ARROW STRAIGHT	t
STRIPING "ONLY"	ONLY
BICYCLE STRIPING	Øð
HANDICAP SYMBOL	Æ
TRAFFIC SIGNAL	ß
TRAFFIC SIGNAL PEDESTAL	Q
TRAFFIC SIGNAL PULL BOX	K
PARKING METER	
SIGN	d
STOP SIGN	STOP
YIELD SIGN	
RR CROSSING ARM	Xê
BENCHMARK	5
TEMPORARY BENCHMARK	
ROW MARKER	Ŗ
CONTROL POINT	Δ
MONUMENT FOUND	•
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WITNESS CORNER	
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\otimes	
G	GAS MANHOLE
G	GAS METER
-0	GAS VALVE
ß	GAS WARNING SIGN
(\mathbb{T})	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
Z	TELEPHONE PULLBOX
	TELEPHONE WARNING SIGN
\bigcirc	UNIDENTIFIED MANHOLE
Y	UNIDENTIFIED UTILITY PEDESTAL
-6-	UNIDENTIFIED VALVE
Ð	UNIDENTIFIED PULLBOX
\otimes	WATER CURB STOP
(WATER MANHOLE
\bigotimes	WATER METER
X	WATER VALVE
W	WATER WARNING SIGN
8>	AUTO SPRINKLER BUILDING
	FIRE HYDRANT
•	POST INDICATOR VALVE
5	YARD HYDRANT
	IRRIGATION CONTROL VALVE
Ĩ	IRRIGATION SPRINKLER HEAD
•	WELL
Ŵ	MONITORING WELL
\frown	TABLE
\oplus	SATELLITE DISH
MB	MAILBOX
•	MISCELLANEOUS POINT
\bigtriangledown	VENT
R	TOWER
	PROPANE TANK
\triangleright	FLAGPOLE
	AIR CONDITIONING UNIT
	DRINKING FOUNTAIN
(BBQ)	BBQ PIT
 	BENCH
Φ	BOLLARD
•	BORE HOLE
 ──	COLUMN ROUND
	COLUMN SQUARE

AINAGE	
	SANITARY CLEAN OUT
	SANITARY MANHOLE
— 100YR EGL —	SEWER WARNING SIGN
	SEPTIC TANK
	AREA INLET ROUND
— 100YR HGL ———————————————————————————————————	
2YR HGL	AREA INLET SQUARE
	GRATE INLET
FLDWY	GRATE INLET W/ HOOD
ARCEL	STORM MANHOLE
	STORM PIPE END
	4' CURB INLET
	CURB INLET LEFT
	CURB INLET RIGHT
	DOWN SPOUT/ROOF DRAIN
	FLARED END SECTION
	CONTINUE SYMBOL
<u>EVIATIONS</u>	CABLE MANHOLE
WITH DISABILITIES ACT	CABLE WARNING SIGN
URB ALK PIPE	
WALL DIMENSION	CABLE PEDESTAL
VISION -	CABLE PULLBOX
D METAL PIPE	LIGHT POLE
OINT)	YARD LIGHT
DN PIPE	GROUND LIGHT
RAVEL	BLDG MOUNTED LIGHT
D SECTION DR ELEVATION RADE	STREET LIGHT
NT	POWER POLE
AK	H STRUCTURE
/LOW POINT	H STRUCTURE W/ TRANSFORMER
VATION T DIMENSION	
TING	ELECTRIC MANHOLE
ALE	ELECTRIC METER
PIPE SION	ELECTRIC PEDESTAL
CURVATURE NTERSECTION	ELECTRIC PULLBOX
LINE DP PIPE CHLORIDE	ELECTRIC TRANSFORMER
'ERTICAL CURVE 'ERTICAL INTERSECTION	ELECTRIC VAULT
ERTICAL TANGENCY VATION	ELECTRIC WARNING SIGN
MENSION	GUY
AY	FIBER OPTIC MANHOLE
ET EWER	FIBER OPTIC PULL BOX
	FIBER OPTIC VAULT
RB UNDATION	FIBER OPTIC PEDESTAL
ADE AND	FIBER OPTIC WARNING SIGN
VEMENT AB	FUEL TANK
LL	FUEL CAP
LITY CAPTURE VOLUME	FUEL PUMP
ASTIC CAP	

UALITY CAPTURE PLASTIC CAP

6

	PROP	OSED	
CONTOUR	1100-	PAVEMENT	
CONTOUR		PC CURB AND GUTER	
CONTOUR		RETAINING WALL	
DT TO BE ISTURBED	* * * * * * * * * * * * * * * * *	X" PC CONCRETE SIDEWALK	
TILL AREA		ASPHALT PAVEMENT	
SS ROAD		SIDEWALK PAVEMENT	
ER STRIP		PAVING BARRICADE	• • • •
RIDGE	$-\frac{\lambda}{\prime}$ -	BUILDING	
OW PATH	$ \rightarrow$ $-$	PARKING STALL COUNT	(15)
ELEVATION	1000.00		
REA NAME			
RUNOFF EFFICIENT	C= AC.		
LINEATION			
UB BASIN LINEATION			
NTRATION	GRA 254 @ 7.85%		
WATTLE	W		
KING PAD			
SEEDING	TS		
HAY BALE	STB		
OTECTION	SP		
SEEDING	PS		
OTECTION	(IP)		
M SEWER	18"ST		
RY SEWER			
SERVICE	/		
CE RISER			
MANHOLE			
ER DRAIN	<u> </u>		
WATER	2"W		
AIR TAP	—		
HYDRANT	*		
TEE	Ц		
BEND	μ ζ γ		
REDUCER			
LVE GATE	I©I		
MANHOLE			
SECTION			

	FUTURE CONTOUR
	EXISTING CONTOUR
	WETLANDS AREA NOT TO BE DISTURBED
	FILL AREA
	STABILIZED ACCESS ROAD
	VEGETATED BUFFER STRIP
$-\frac{\lambda}{\prime}-$	RIDGE
$ \rightarrow$ $-$	FLOW PATH
1000.00	SPOT ELEVATION
	DRAINAGE AREA NAME
C= AC.	DRAINAGE AREA RUNOFF COEFFICIENT
	DRAINAGE BASIN DELINEATION
	DRAINAGE SUB BASIN DELINEATION
<u>GRA 254 @ 7.85%</u>	TIME OF CONCENTRATION DRAINAGE PATH
W	WATTLE
	VEHICLE TRACKING PAD
TS	TEMPORARY SEEDING
STB	STRAW HAY BALE
SP	SLOPE PROTECTION
PS	PERMANENT SEEDING
(IP)	INLET PROTECTION
18"ST	STORM SEWER
	SANITARY SEWER
/	SANITARY SEWER SERVICE
¢	SANITARY SERVICE RISER
	DROP MANHOLE
<u>= = 8"Dr</u> =	SLOTTED UNDER DRAIN
2"W	WATER
— —	AIR TAP
Ť	FIRE HYDRANT
μΨι	TEE
μ ζ γ	BEND
	REDUCER
I©I	VALVE GATE
	MANHOLE
	FLARED END SECTION
	CURB INLET
00	AREA INLET
	GRATE INLET

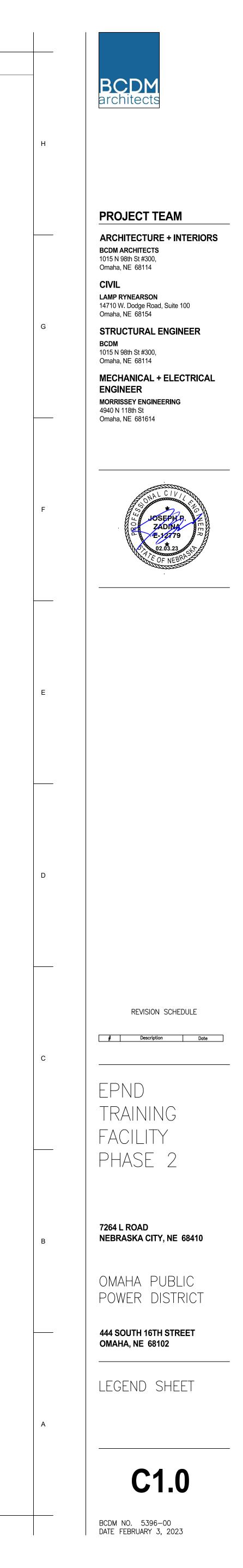
BIORETENTION GARDEN

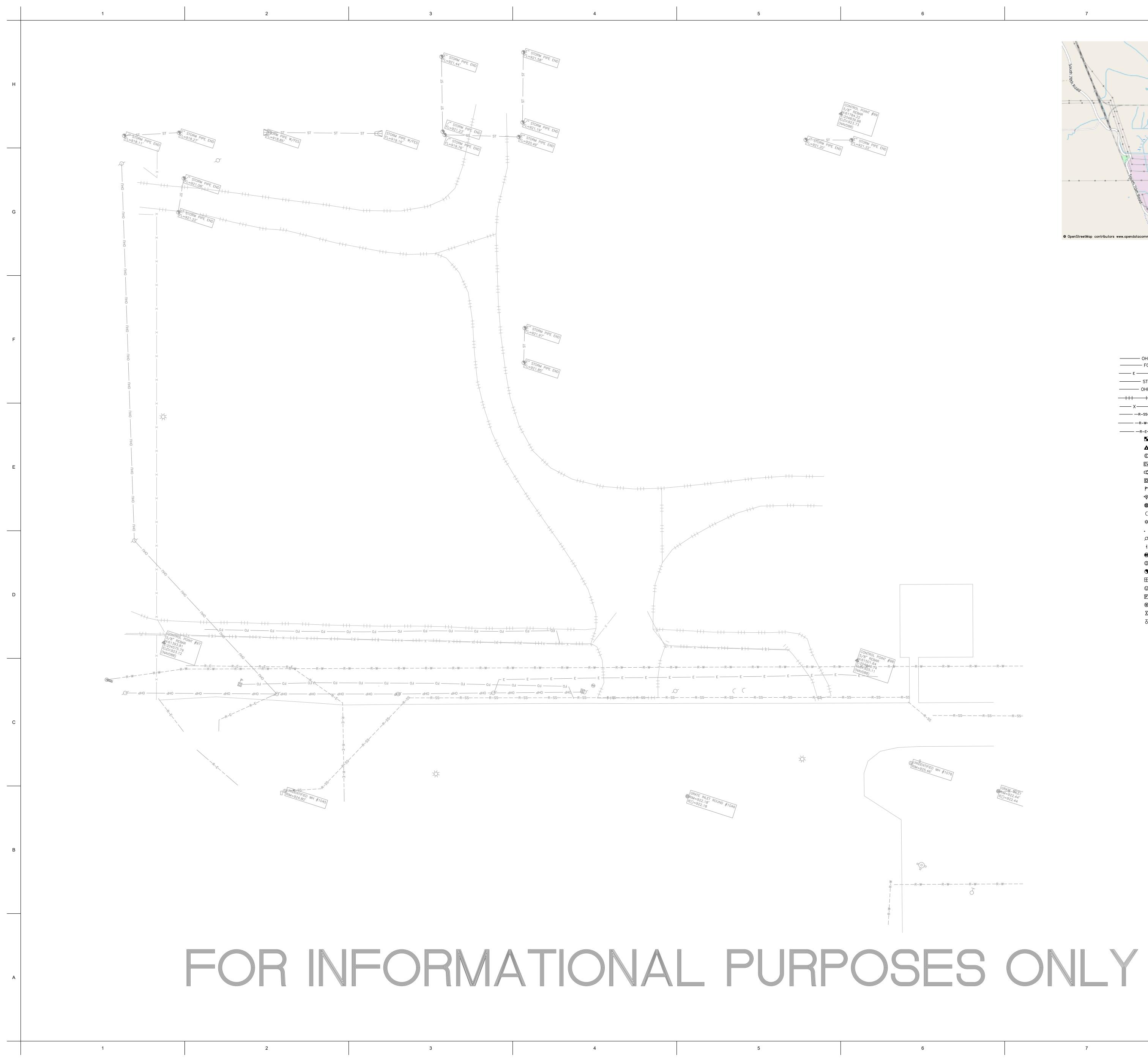
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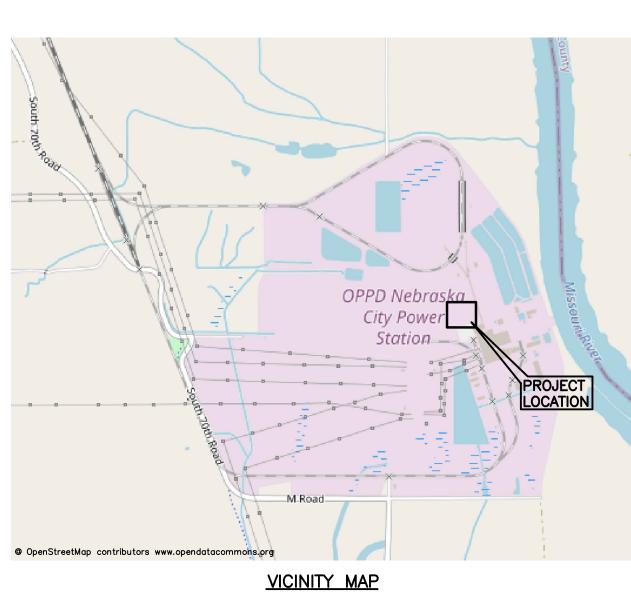
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8

PC CURB AND GUTER	
RETAINING WALL	
X" PC CONCRETE SIDEWALK	
ASPHALT PAVEMENT	
SIDEWALK PAVEMENT	
PAVING BARRICADE	* * * *
BUILDING	
PARKING STALL COUNT	(15)

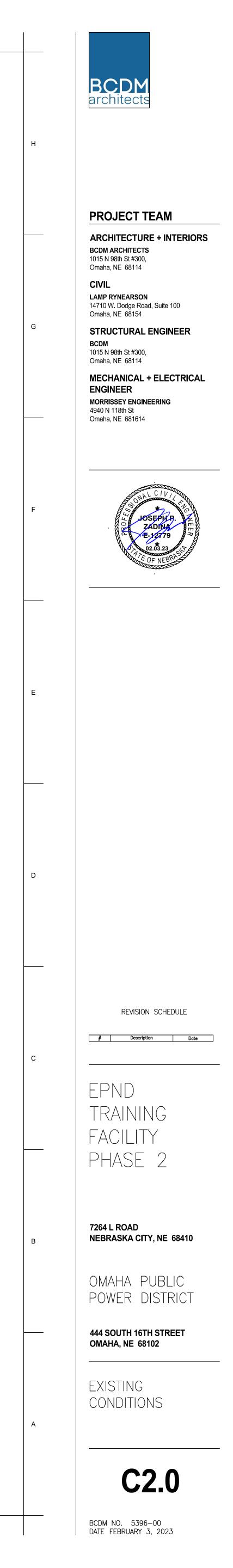


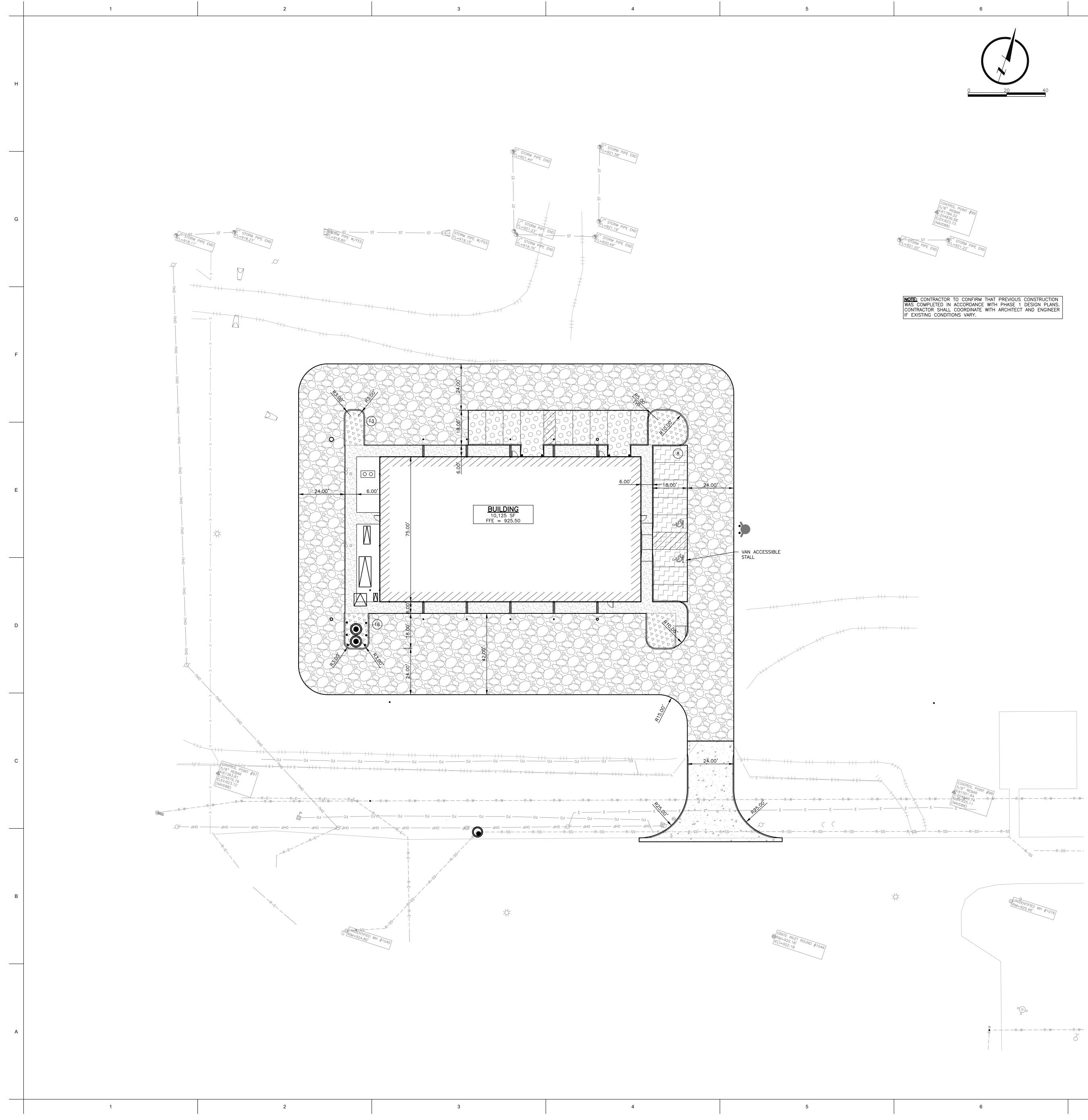


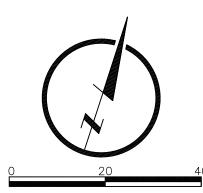


<u>LEGEND</u>

OHU	OVERHEAD UTILITY
—— FO ———	FIBER OPTICS
– E ——— E ———	ELECTRIC
ST	STORM SEWER
OHP	OVERHEAD POWER
+ +++	GRAVEL AND DIRT EDGE
- x x	FENCE
— —R-SS— — ——	RECORD SANITARY SEWER
— —R-W— — ———	RECORD WATER LINE
— —R-E— — ———	RECORD ELECTRICAL DUCT
	BENCHMARK
Δ	CONTROL POINT
Ē	ELECTRIC MANHOLE
EV	ELECTRIC VAULT
	FLARED END SECTION
斑	FIBER OPTIC PULLBOX
P	FIBER OPTIC WARNING SIG
፼	FIRE HYDRANT
•	GRATE INLET ROUND
C	GUY
*	STREET LIGHT
٠	POST INDICATOR VALVE
Ø	POWER POLE
4	SIGN
•	STOP SIGN
D	STORM MANHOLE
9	STORM PIPE END
\blacksquare	TELEPHONE PEDESTAL
0	UNIDENTIFIED MANHOLE
Y	UNIDENTIFIED PEDESTAL
W	WATER MANHOLE
Χ	WATER VALVE
б	YARD HYDRANT







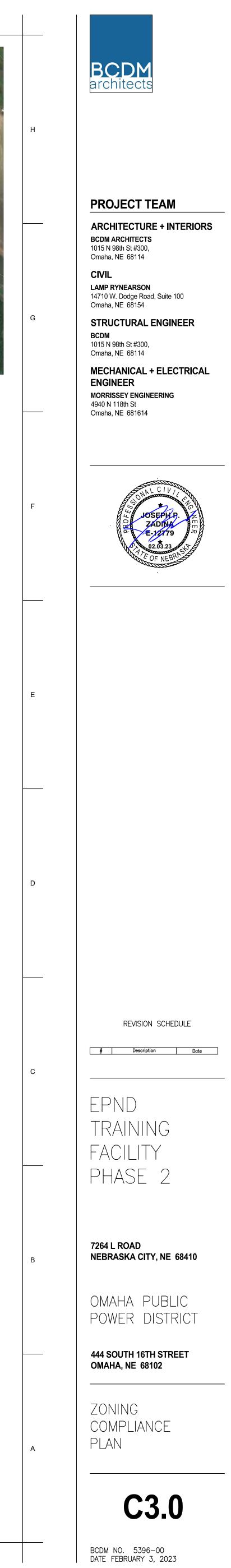


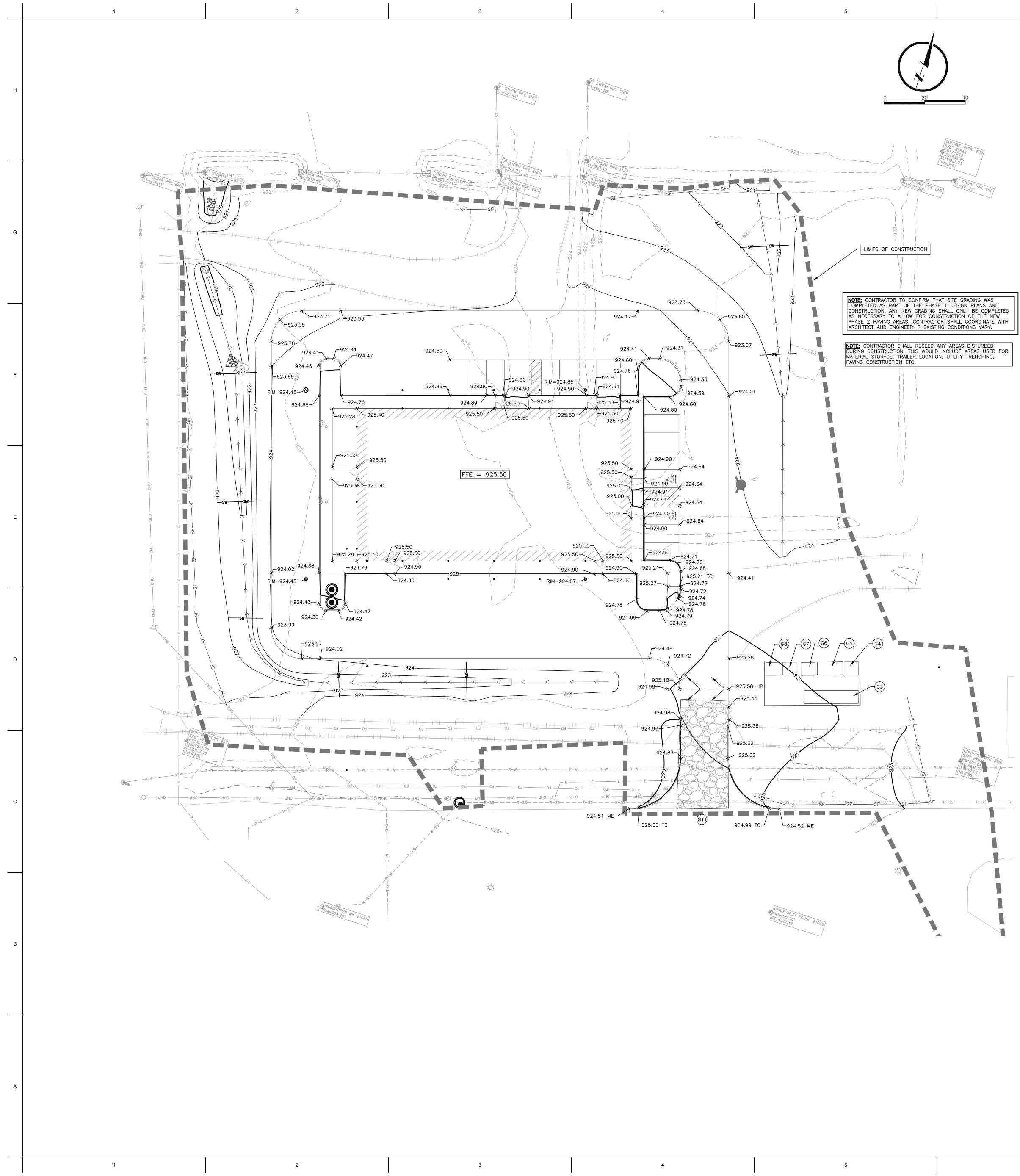
LOCATION MAP

GENERAL NOTES

- 1. ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE CITY OF OMAHA "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2020 EDITION AND ANY REVISIONS OR AMENDMENTS THERETO SHALL APPLY TO THIS PROJECT. EXCEPT AS MODIFIED BY THESE SPECIFICATIONS, SPECIAL CONDITIONS, AND/OR THE CONSTRUCTION DRAWINGS.
- 2. EXISTING UTILITIES ARE SHOWN AS A CONVENIENCE FOR THE CONTRACTOR. THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITIES MAY NOT BE INDICATED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE WORK IS STARTED TO VERIFY UTILITY LOCATIONS (ONE CALL 344–3565).
- 3. BARRICADES SHALL CONFORM TO OMAHA PUBLIC WORKS "BARRICADING STANDARDS, SPECIFICATIONS, METHODS & MATERIALS", AND/OR THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". 4. THE CONTRACTOR SHALL PROVIDE THE ENGINEER/ARCHITECT WITH A CONSTRUCTION RECORD DRAWING INDICATING ALL CHANGES IN GEOMETRY, GRADES, ELEVATIONS OR MATERIAL ON THE PROJECT PRIOR
- TO FINAL ACCEPTANCE. 5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO COMPLETE THIS
- PROJECT AND IS RESPONSIBLE FOR THE PAYMENT OF ALL FEES ASSOCIATED WITH THESE PERMITS. 6. THE CONTRACTOR SHALL CONTACT THE SOILS ENGINEER TO OBSERVE THE SUBGRADE PRIOR TO
- PLACING PAVEMENT TO DELINEATE ANY AREAS WHERE SUBGRADE OVEREXCAVATION MAY BE REQUIRED. 7. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PROPOSED UTILITY CONNECTIONS WITH THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- 8. THE INSTALLATION OF UTILITIES MAY REQUIRE THE DISTURBANCE OF EXISTING DRAINAGE AND EROSION CONTROL MEASURES. THESE ITEMS MAY INCLUDE SILT BASINS, LEVEL TERRACES, INTERCEPTOR SWALES, SILT FENCE AND ROCK CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE EXISTING SITE CONDITIONS PRIOR TO BIDDING THIS WORK. THE FUNCTION OF THESE ITEMS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION WITH EMPHASIS PLACED ON RESTORING THEIR INTEGRITY PRIOR TO ANY RAINFALL EVENT. AS PART OF THIS CONTRACT, ALL DISTURBED DRAINAGE AND EROSION CONTROL STRUCTURES SHALL BE RESTORED TO GOOD CONDITION AFTER COMPLETION OF THE WORK OR AS DIRECTED BY THE ENGINEER/ARCHITECT.
- 9. SEE PLAN SHEETS FOR ADDITIONAL NOTES.

7





| <u>NOTE:</u> SEE THIS SHEET FOR EROSION CONTROL MEASURES TO BE INSTALLED. THESE ARE PROPOSED LOCATIONS. IF THE CONTRACTOR WISHES TO USE ALTERNATE LOCATIONS IT MUST BE APPROVED BY THE ENGINEER.

THIS WORK SHALL BE PERFORMED UNDER THE AUTHORIZATION OF THE ASSOCIATED NPDES PERMIT NER 160000. WEEKLY AND RAINFALL EVENT INSPECTIONS WILL BE CONDUCTED UNDER THE AUTHORITY OF THE EXISTING PERMIT HOLDER.

8

ELEVATION NOTES

1. PROPOSED CONTOURS ARE FINISHED GRADE/TOP OF PAVEMENT ELEVATIONS. NOT SUBGRADE ELEVATIONS.

GRADING AND EROSION CONTROL NOTES

- 1. IN CONSTRUCTION OF CONTROLLED FILLS, ALL SOILS SHALL BE COMPACTED AS INDICATED ON THE COMPACTION REQUIREMENTS TABLE (THIS SHEET). MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 698 (STANDARD PROCTOR).
- 2. ALL OPERATORS/CONTRACTORS MUST COMPLY WITH ALL NOISE AND DUST CONTROL ORDINANCES OF APPLICABLE GOVERNMENT AGENCIES.
- 3. ALL OPERATORS/CONTRACTORS MUST LOCATE ALL EXISTING UTILITY PRIOR TO THE START OF WORK (ONE CALL 811).
- 4. ALL OPERATORS/CONTRACTORS SHALL BE RESPONSIBLE TO COMPLY WITH OSHA REGULATIONS.
- 5. FOR DUST CONTROL, THE CONTRACTORS/OPERATORS MUST USE ANY OF THE FOLLOWING MEASURES OR A COMBINATION IF NECESSARY: ESTABLISHING TEMPORARY SEEDING, PERMANENT SEEDING, AND/OR MULCH IN AREAS SUBJECT TO LITTLE OR NO CONSTRUCTION TRAFFIC; IRRIGATING STRIPPED AREAS AND/OR HAUL ROADS; REDUCING VEHICULAR SPEED ON HAUL ROADS. FURTHERMORE, THE DUST CONTROL (9.5.17) BMP PRESENTED WITHIN THE OMAHA REGIONAL STORMWATER DESIGN MANUAL MUST BE ADHERED TO AT ALL TIMES. THE AFOREMENTIONED PUBLICATIONS CAN BE FOUND AT HTTP://WWW.PCWPEROSIONCONTROL.ORG.
- 6. THE CONTRACTORS/OPERATORS MUST ENSURE SEDIMENT THAT HAS BEEN ACCIDENTALLY TRANSPORTED ONTO PUBLIC STREETS IS REMOVED AS NEEDED, AT THE END OF EACH WORKING DAY, AND PRIOR TO ALL RAIN EVENTS. SEDIMENT SHALL BE SHOVELED AND/OR SWEPT FROM THE STREET AND DISPOSED OF IN A MANNER THAT PREVENTS STORMWATER CONTAMINATION. FURTHERMORE, THE STREET CLEANING / SWEEPING (SM-4) BMP PRESENTED WITHIN THE SUPPLEMENTAL BMP GUIDE MUST BE ADHERED TO AT ALL TIMES. THE AFOREMENTIONED PUBLICATIONS CAN BE FOUND AT HTTP://WWW.PCWPEROSIONCONTROL.ORG.

GRADING KEYNOTES:

G5.

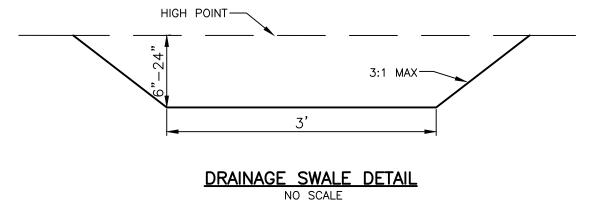
- G1. CONTRACTOR SHALL INSTALL AND MAINTAIN A SWPPP NOTIFICATION SIGN PER STANDARD SPECIFICATION 9.6.7, OMAHA REGIONAL STORMWATER DRAINAGE MANUAL.
- CONTRACTOR SHALL INSTALL AND MAINTAIN A STABILIZED G2. VEHICLE AND EQUIPMENT PARKING AREA.
- G3. PROPOSED LOCATION OF JOB TRAILER LOCATION; ALTERNATE LOCATION MUST BE APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL INSTALL AND MAINTAIN A SANITARY G4. WASTE RECEPTACLE PER STANDARD SPECIFICATION 9.6.2, OMAHA REGIONAL STORMWATER DRAINAGE MANUAL. CONTRACTOR SHALL INSTALL AND MAINTAIN A SOLID
- WASTE RECEPTACLE PER STANDARD SPECIFICATION 9.6.3, OMAHA REGIONAL STORMWATER DRAINAGE MANUAL. CONTRACTOR SHALL INSTALL AND MAINTAIN A DESIGNATED G6. VEHICLE AND EQUIPMENT FUELING AREA PER STANDARD SPECIFICATION 9.6.6, OMAHA REGIONAL STORMWATER
- G7. CONTRACTOR SHALL INSTALL AND MAINTAIN A DESIGNATED MATERIAL DELIVERY AND STORAGE AREA PER STANDARD SPECIFICATION 9.6.4, OMAHA REGIONAL STORMWATER DRAINAGE MANUAL.
- G8. CONSTRUCT AND MAINTAIN A CONCRETE WASHOUT.

DRAINAGE MANUAL.

- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS G9 WITH CITY OF OMAHA LAWN SEED MIXTURE, FERTILIZE AND MULCH.
- G10. CONTRACTOR SHALL INSTALL ROLLED EROSION CONTROL PRODUCT (NORTH AMERICAN GREEN S75 OR APPROVED EQUIVALENT).

NOTE: CONTRACTOR SHALL SEED DISTURBED AREA WITH TEMPORARY SEASONAL WINTER MIX BETWEEN PHASES.

- G11. AS REQUIRED THE CONTRACTOR SHALL IMPLEMENT STREET CLEANING/SWEEPING PRACTICES. SEPARATE PAYMENT SHALL NOT BE MADE FOR STREET CLEANING/SWEEPING. G12
- CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES PRIOR TO GRADING ANY SIDEWALK.
- CONTRACTOR SHALL INSTALL AND MAINTAIN A DRAINAGE G13. SWALE. SEE DETAIL, THIS SHEET.
- SF1-SF4 CONTRACTOR SHALL INSTALL AND MAINTAIN SILT _____SF_____ FENCE.
- SW1-SW7 CONTRACTOR SHALL INSTALL AND MAINTAIN STRAW _____SW_____ WADDLE WITHIN DRAINAGE SWALE.

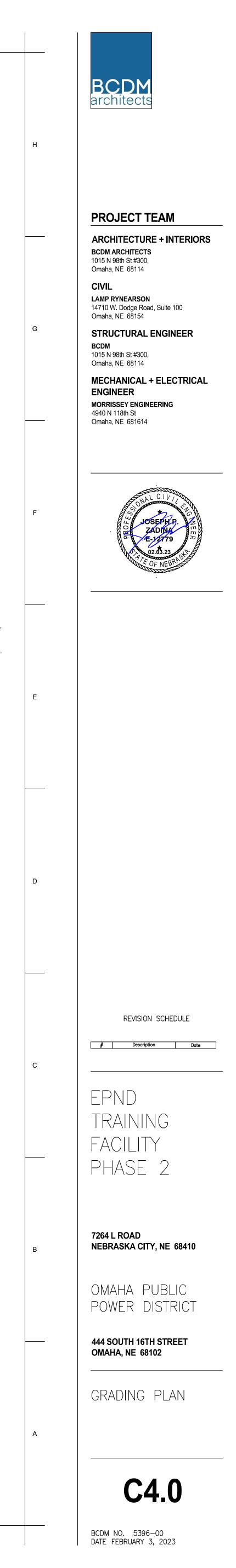


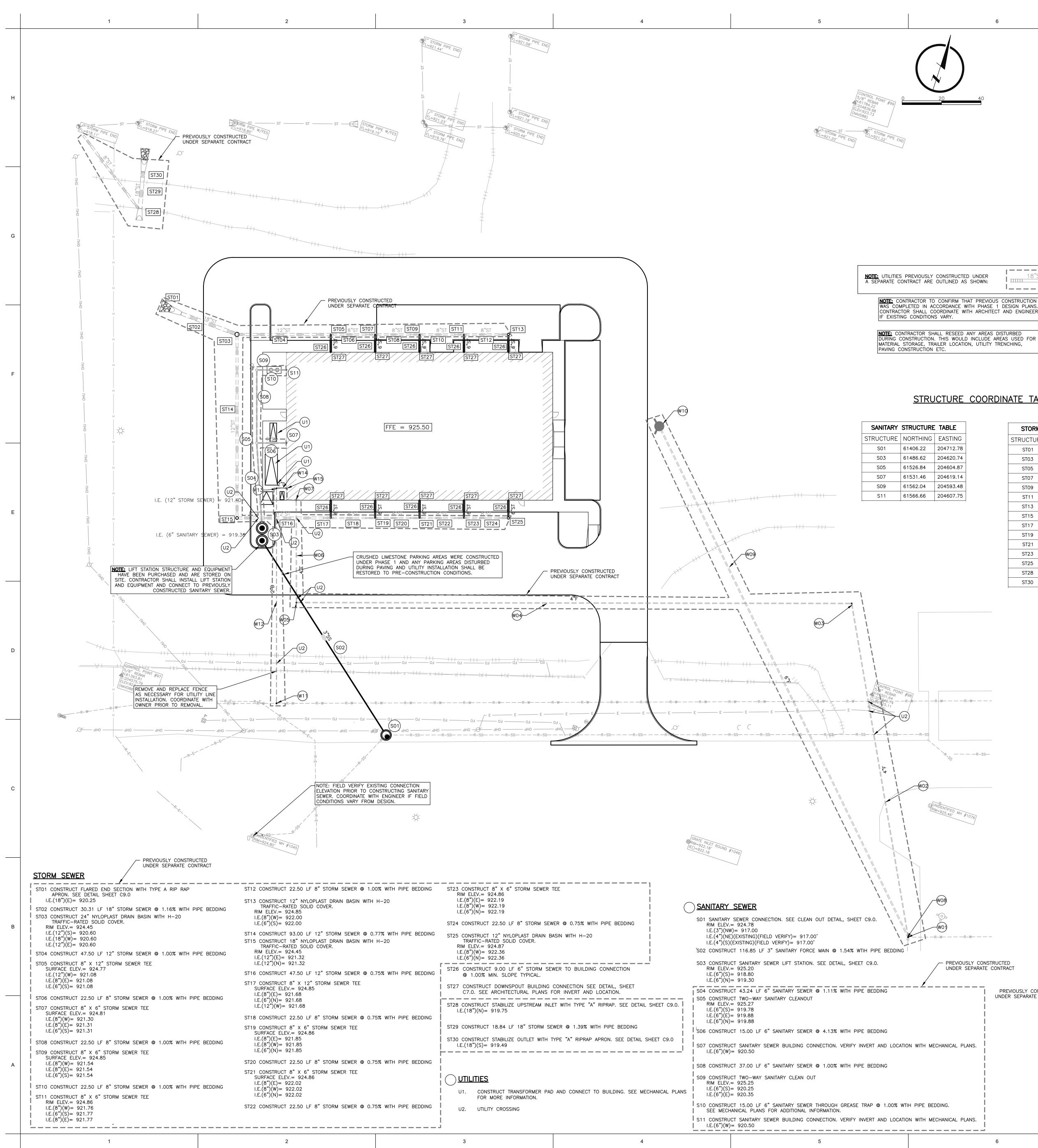
COMPACTION RE			
SEE GEOTECHNICAL ENGINEERING REPORT:	OPPD TRAINING BUILDING		
PREPARED BY:	THIELE GEOTECH INC. (402) 556-2171		
ENGINEER:	RAEANNA C. D. THIELE		
PROJECT NO:	20600.00		
DATED:	NOVEMBER 2, 2020		
MAX. DEPTH OF LIFT FOR FILL (MEASURED LOOSE)	8"		
AREA	TEST	COMPACTION	MOISTUR
UTILITY TRENCH BACKFILL (DEPTH < 5')	STANDARD PROCTOR	95%	-3/+4
UTILITY TRENCH BACKFILL (DEPTH > 5')	STANDARD PROCTOR	95%	-3/+4
PCC PAVEMENT SUBGRADE (UPPER 12")	MODIFIED PROCTOR	90%	-3/+4
ACC PAVEMENT SUBGRADE (UPPER 12")	MODIFIED PROCTOR	92%	-3/+4
PAVEMENT SUBGRADE (DEPTH > 12")	STANDARD PROCTOR	95%	-3/+4
MANHOLE + STRUCTURE BACKFILL (FULL DEPTH)	STANDARD PROCTOR	95%	-3/+4
SIDEWALK SUBGRADE (UPPER 6")	STANDARD PROCTOR	95%	-3/+4
ALL OTHER FILL	STANDARD PROCTOR	95%	-3/+4

1. STANDARD PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 698. 2. MODIFIED PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 1557.

EROSION CONTRO	<u>OL SUMMARY TABLE</u>
TOTAL AREA OF SITE	2.02 AC.
DISTURBED AREA	2.02 AC.
EROSION CONTROL MEASURES:	SILT FENCE, STRAW WADDLES, ROCK ACCESS ROAD, INLET PROTECTION, AND SEEDING

8





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!_____ NOTE: CONTRACTOR TO CONFIRM THAT PREVIOUS CONSTRUCTION WAS COMPLETED IN ACCORDANCE WITH PHASE 1 DESIGN PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND ENGINEER

STRUCTURE COORDINATE TABLES

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RE	TABLE
IG	EASTING
	204712.78
	204620.74
	204604.87
	204619.14
	204593.48
	204607.75

STORM S	STRUCTURE	TABLE
STRUCTURE	NORTHING	EASTING
ST01	61577.50	204548.15
ST03	61576.09	204578.42
ST05	61590.71	204623.61
ST07	61597.64	204645.02
ST09	61604.57	204666.43
ST11	61611.50	204687.83
ST13	61618.42	204709.24
ST15	61487.61	204607.05
ST17	61502.23	204652.25
ST19	61509.16	204673.65
ST21	61516.09	204695.06
ST23	61523.01	204716.47
ST25	61529.94	204737.87
ST28	61621.64	204512.03
ST30	61639.98	204507.68

SANITARY SEWER NOTES

1. MANHOLES SHALL BE LOCATED IN ACCORDANCE WITH THE COORDINATES SHOWN. THE LENGTH OF PIPE BETWEEN MANHOLES MAY VARY ACCORDINGLY.

- 2. THE CONTRACTOR IS REFERRED TO THE FOLLOWING CITY OF OMAHA STANDARD PLATES:
 - 701–01 SEWER BEDDING 700-01 CONCRETED COLLAR 700–02 SEWER TAP 703–04 SANITARY SEWER CLEAN–OUT
- 3. MANHOLES SHALL INCLUDE A 4" AND AN 8" ADJUSTING RING AT THE TOP OF THE RISER SECTION. RISER SECTIONS BELOW THE ADJUSTING RINGS SHALL BE AS NECESSARY TO COMPLETE THE MANHOLE.
- 4. THE CONTRACTOR SHALL PERFORM AIR OR WATER LEAKAGE TESTS IN ACCORDANCE WITH CITY OF
- OMAHA SPECIFICATIONS. 5. TRENCH BACKFILL SHALL BE COMPACTED AS SHOWN IN THE COMPACTION REQUIREMENTS TABLE,
- (SEE SHEET C4.0), OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- 6. CONCRETE FOR MANHOLES AND PIPE SHALL BE L65M USING TYPE II PORTLAND CEMENT. THE CEMENT FOR MANHOLE GROUT SHALL BE THE SAME AS THAT FOR MANHOLE CONCRETE AND SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. 7. ALL PIPES SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF OMAHA STANDARD PLATE 701-01.
- 8. ALL SANITARY SEWER SERVICE CONNECTIONS MUST BE MADE BY A LICENSED PLUMBER.
- 9. THE CONTRACTOR INSTALLING SEWER SHALL HOLD A VALID SEWER LAYER'S LICENSE AND SHALL OBTAIN ALL REQUIRED PERMITS. PERMITTING FEES SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

STORM SEWER NOTES

- 1. INLETS AND MANHOLES SHALL BE LOCATED IN ACCORDANCE WITH THE COORDINATES SHOWN. THE LENGTHS OF PIPES MAY VARY ACCORDINGLY.
- 2. THE CONTRACTOR IS REFERRED TO THE FOLLOWING CITY OF OMAHA STANDARD PLATES: 701-01 STORM BEDDING
- 700–02 SEWER TAP 700–03 PIPE PLUG

SEWER CONSTRUCTION:

- 3. TRENCH BACKFILL SHALL BE COMPACTED AS SHOWN IN THE COMPACTION REQUIREMENTS TABLE, (SEE SHEET C4.0) OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- 4. RCP PIPE SHALL BE BEDDED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS. ALL OTHER
- PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF OMAHA STANDARD PLATE 701-01. STORM SEWER MATERIALS: THE FOLLOWING MATERIALS ARE GENERALLY APPROVED FOR STORM
 - A. REINFORCED CONCRETE PIPE (RCP). RCP SHALL BE CLASS III WALL B OR C AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C76-03 AND SHALL BE INSTALLED AS REQUIRED BY ASTM C1479-01. ALL REINFORCED CONCRETE PIPE JOINTS SHALL BE INSTALLED USING RUBBER GASKETS IN ACCORDANCE WITH ASTM C443, STANDARD SPECIFICATIONS FOR JOINTS FOR CONCRETE PIPE
 - AND MANHOLES, USING RUBBER GASKETS. B. DUCTILE IRON PIPE (DIP). DIP SHALL CONFORM TO THE REQUIREMENTS OF ASTM A746-09 AND SHALL BE INSTALLED AS REQUIRED BY ASTM C800-08.
 - C. POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE. PVC PIPE SHALL BE TYPE 1, GRADE 1 AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D2665-02AE0 AND SHALL BE INSTALLED AS REQUIRED BY ASTM D2321-00.
 - D. HIGH DENSITY POLYETHYLENE (HDPE) PIPE. HDPE PIPE SHALL HAVE A CORRUGATED EXTERIOR AND A SMOOTH INTERIOR AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 TYPE S AND SHALL BE INSTALLED AS REQUIRED BY ASTM D2321-00 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS. HDPE PIPE SHALL BE MANUFACTURED FROM HDPE VIRGIN COMPOUNDS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3350 FOR THE CELL CLASSIFICATION 335420C. COUPLING BANDS SHALL MEET THE SOIL TIGHTNESS REQUIREMENTS OF AASHTO SECTION 26.4.2.4.
- 6. CONCRETE FOR STORM SEWER STRUCTURES SHALL BE L65M USING TYPE II PORTLAND CEMENT. THE CEMENT FOR MANHOLE GROUT SHALL BE THE SAME AS THAT FOR MANHOLE CONCRETE AND SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- 7. ALL STORM SEWER CONSTRUCTED IN THE PUBLIC RIGHT OF WAY SHALL BE REINFORCED CONCRETE PIPE (RCP).
- 8. THE CONTRACTOR INSTALLING SEWER SHALL HOLD A VALID SEWER LAYER'S LICENSE AND SHALL OBTAIN ALL REQUIRED PERMITS. PERMITTING FEES SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

WATER MAIN NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT WATER SERVICE FROM EXISTING MAINS TO THE BUILDING. CONTRACTOR SHALL VERIFY BUILDING CONNECTION LOCATIONS IN ARCHITECTURAL PLANS.
- 2. THE CONTRACTOR SHALL PROVIDE VALVE BOX AND WATER METER.
- 3. CALL M.U.D. BUILDER AND CONTRACTOR SERVICES (402) 554-7987 FOR FURTHER DETAILS.
- 4. ALL WATER LINES SHALL HAVE 5' MINIMUM COVER.
- 5. CONSTRUCT WATER SERVICE PER M.U.D. SPECIFICATIONS
- 6. ALL WATER LINES SHALL MEET THE REQUIREMENTS OF THE OMAHA MUNICIPAL CODE SECTION 49–1518. WATER SERVICE.
- 7. ALL WATER SERVICE MUST BE INSTALLED BY A LICENSED PLUMBER.
- 8. CONTRACTOR WILL COORDINATE WITH OWNER PRIOR TO HIS BID TO DETERMINE WHO PAYS TAPPING FEES, COST OF WATER METER, COST OF ASSOCIATED PERMITS, AND CAPITAL FACILITIES CHARGE.
- 9. ALL WATER SERVICE LINES AND CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE METROPOLITAN UTILITIES DISTRICT (M.U.D.) WATER RULES AND REGULATIONS.

POWER NOTES

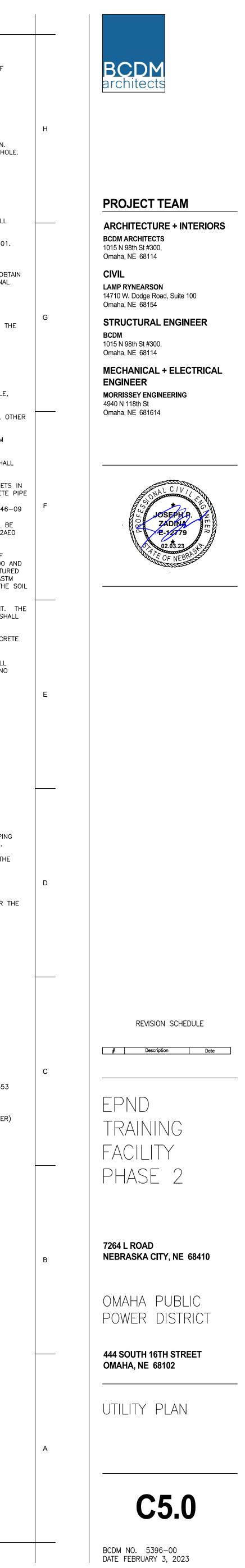
1. THE CONTRACTOR SHALL CONSTRUCT CONCRETE TRANSFORMER PAD AND PRIMARY CONDUIT PER THE OMAHA PUBLIC POWER DISTRICT GENERAL WIRING AND METERING SPECIFICATIONS. TELEPHONE SERVICE NOTES

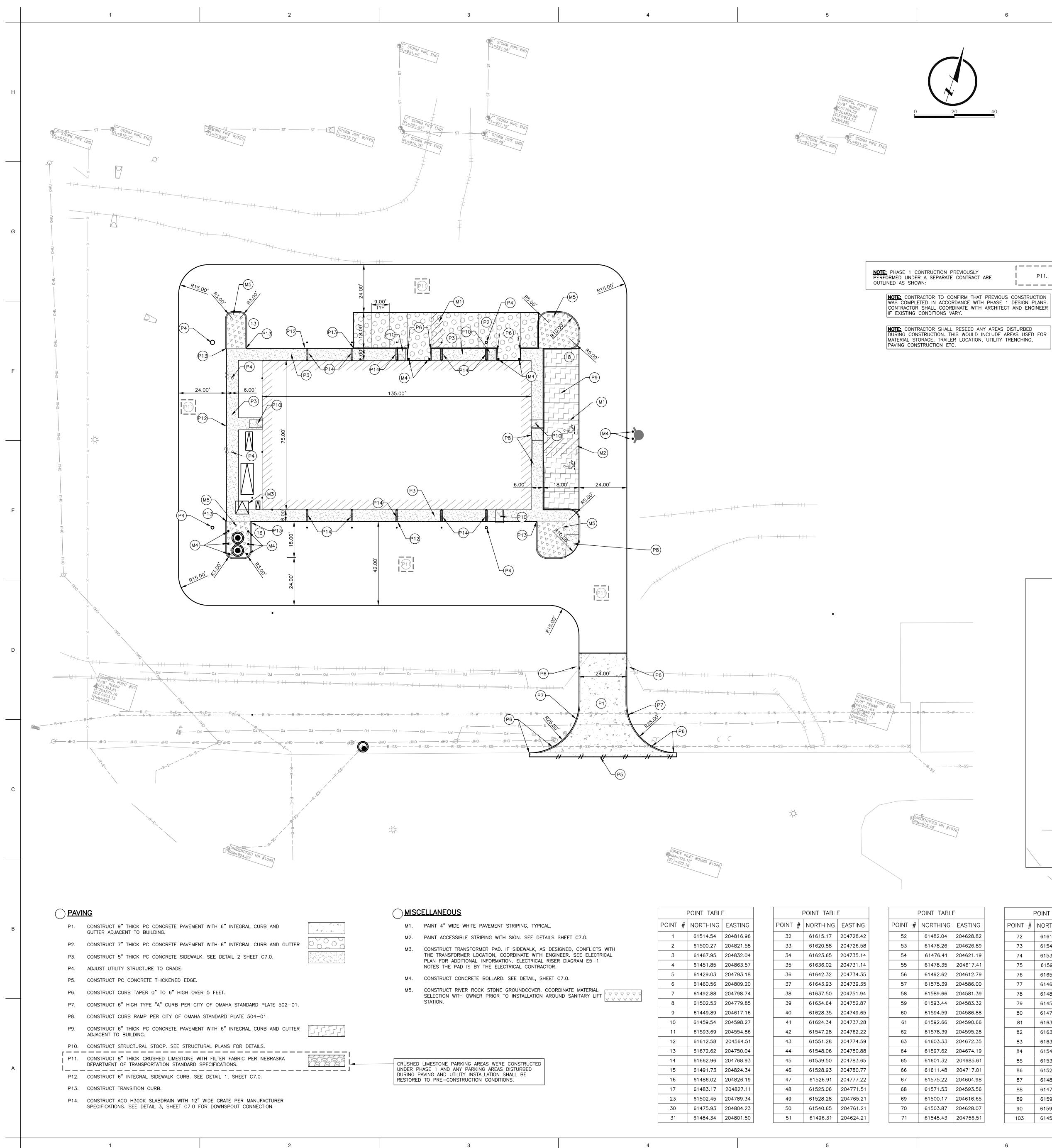
1. COORDINATE WITH OWNER AND WINDSTREAM TO PROVIDE COMMUNICATION LINES AS REQUIRED. UTILITY CONTACTS

UTILITE CONTACT.	2	
SANITARY SEWER:	OPPD SYSTEM ENGINEERING SHAWN PECK	531-226-8118
POWER:	OPPD LARRY CARMINE	531-226-4032 (OFFICE)
TELEPHONE:	WINDSTREAM	844-621-5090
FIBER:	OPPD NETWORK ENGINEERING QUYNH NGUYEN	531–226–5464 (FIBER TO RACK)
	RYAN SWEENEY	531-226-3121 (DOWNSTREAM OF RACK)
WATER:	(UP TO METER)	NEBRASKA CITY UTILITIES 402-873-335
	OPPD SYSTEM ENGINEERING SHAWN PECK	531-226-8118 (DOWNSTREAM OF THE METER
FIRE PROTECTION:	OPPD SYSTEM ENGINEERING KRIS AHRENS	531-226-8113

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	\bigcirc	<u>WAT</u>	ER KEYNOTES
(WOB		W01	CONNECT TO EXISTING WATER SERVICE OUTSIDE OF ADMINISTRATION BUILDING AND PROVIDE CONNECTION VALVE AS NECESSARY. POTHOLE AND FIELD VERIFY CONNECTION LOCATION.
rQ2		W02	CONSTRUCT ± 171 LF 4" FIRE WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
		W03	CONSTRUCT PIPE BEND.
		W04	CONSTRUCT ± 281 LF 4" FIRE WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
- PREVIOUSLY CONSTRUC		W05	CONSTRUCT POST INDICATOR VALVE.
UNDER SEPARATE CONT	IRACT	W06	CONSTRUCT ± 52 LF 4" FIRE WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
	PREVIOUSLY CONSTRUCTED	W07	CONNECT 4" FIRE WATER LINE TO BUILDING. VERIFY INVERT AND LOCATION WITH MECHANICAL PLANS.
	DER SEFARATE CONTRACT	W08	CONNECT 6" FIRE LINE TO EXISTING WATER SERVICE OUTSIDE OF ADMINISTRATION BUILDING AND PROVIDE CONNECTION VALVE AS NECESSARY. POTHOLE AND FIELD VERIFY CONNECTION LOCATION.
		W09	CONSTRUCT ± 109 LF 6" WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
MECHANICAL PLANS.		W10	CONSTRUCT FIRE HYDRANT. CONTRACTOR SHALL COORDINATE HYDRANT TYPE WITH OWNER PRIOR TO ORDERING AND INSTALLING.
		W11	CONNECT TO EXISTING WATER MAIN AND PROVIDE CONNECTION VALVE AS NECESSARY.
		W12	CONSTRUCT ±109 LF 2" DOMESTIC WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
	i	W13	CONSTRUCT PIPE BEND.
BEDDING.		W14	CONSTRUCT ±5 LF 2" DOMESTIC WATER LINE COMPLETE WITH ALL BENDS, CONNECTIONS, REDUCERS, AND CONCRETE BACKING BLOCKS AS REQUIRED. PROVIDE 5' MIN. COVER.
MECHANICAL PLANS.	•	W15	CONSTRUCT CONNECT TO 2" DOMESTIC WATER LINE TO BUILDING. VERIFY INVERT AND LOCATION WITH MECHANICAL PLANS.
		T	





ł	POINT TABL	E
POINT #	NORTHING	EASTING
1	61514.54	204816.96
2	61500.27	204821.58
3	61467.95	204832.04
4	61451.85	204863.57
5	61429.03	204793.18
6	61460.56	204809.20
7	61492.88	204798.74
8	61502.53	204779.85
9	61449.89	204617.16
10	61459.54	204598.27
11	61593.69	204554.86
12	61612.58	204564.51
13	61672.62	204750.04
14	61662.96	204768.93
15	61491.73	204824.34
16	61486.02	204826.19
17	61483.17	204827.11
23	61502.45	204789.34
30	61475.93	204804.23
31	61484.34	204801.50

	POINT TABL	E
POINT #	NORTHING	EASTING
32	61615.17	204728.42
33	61620.88	204726.58
34	61623.65	204735.14
35	61636.02	204731.14
36	61642.32	204734.35
37	61643.93	204739.35
38	61637.50	204751.94
39	61634.64	204752.87
40	61628.35	204749.65
41	61624.34	204737.28
42	61547.28	204762.22
43	61551.28	204774.59
44	61548.06	204780.88
45	61539.50	204783.65
46	61528.93	204780.77
47	61526.91	204777.22
48	61525.06	204771.51
49	61528.28	204765.21
50	61540.65	204761.21
51	61496.31	204624.21

	POINT
POINT #	NORT
52	6148
53	6147
54	6147
55	6147
56	6149
57	6157
58	6158
59	6159
60	6159
61	6159
62	6157
63	6160
64	6159
65	6160
66	6161
67	6157
68	6157
69	6150
70	6150
71	6154

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P11.

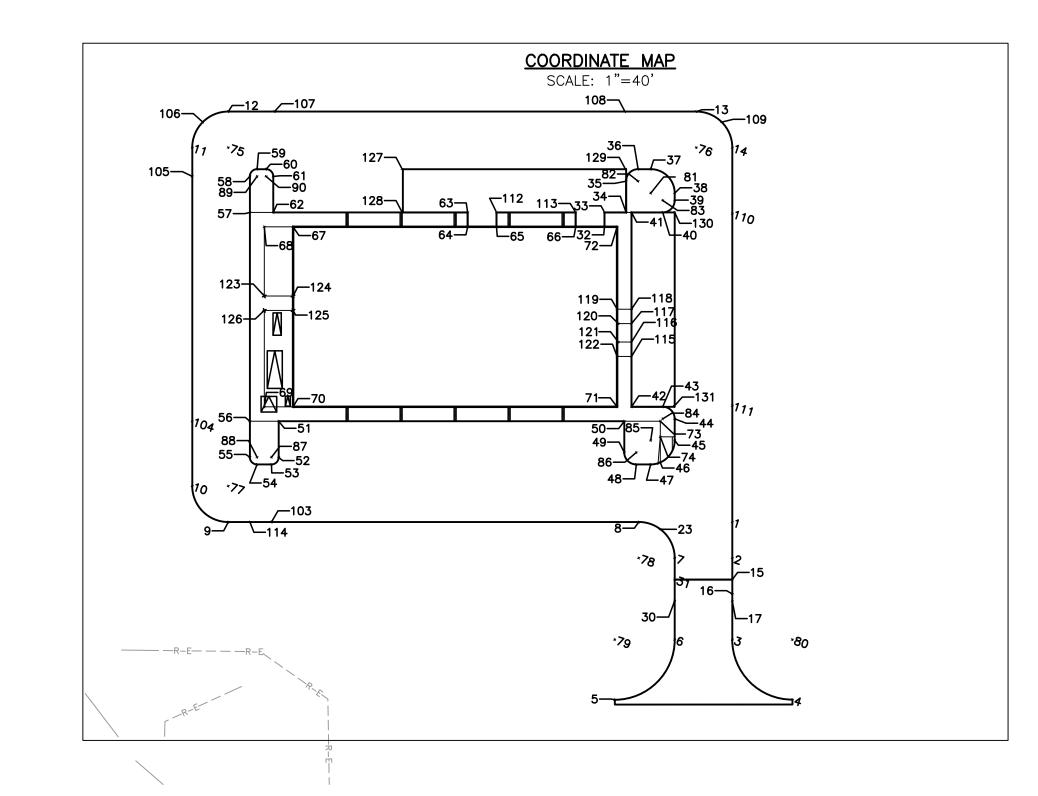
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PORTLAND CEMENT CONCRETE (PCC) PAVING NOTES

- 1. ALL PAVING ELEVATIONS ARE AT TOP OF SLAB UNLESS NOTED OTHERWISE.
- 2. CURBS SHALL BE TYPE "A" IN ACCORDANCE WITH CITY OF OMAHA STANDARD PLATE 502-01 UNLESS NOTED OTHERWISE.
- 3. PAVEMENT SUBGRADE TO A DEPTH OF 12 INCHES AND TO A WIDTH OF 4 FEET OUTSIDE PAVEMENT EDGES SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE (SEE SHEET C4.0).
- 4. BACKFILL BEHIND CURBS SHALL BE COMPACTED TO A MINIMUM IN-PLACE DENSITY OF 90% OF "MAXIMUM DENSITY" AS DETERMINED IN ACCORDANCE WITH ASTM D 1557 (90% MODIFIED PROCTOR).
- 5. THE CONTRACTOR SHALL CONTACT THE SOILS ENGINEER TO OBSERVE THE SUBGRADE PRIOR TO PLACING PAVEMENT TO DELINEATE ANY AREAS WHERE SUBGRADE OVEREXCAVATION MAY BE REQUIRED.
- 6. DROP CURB FOR FUTURE WHEELCHAIR RAMPS, SHALL BE CONSTRUCTED AT ALL PAVING RETURNS AND HANDICAP ACCESS POINTS. SEE CITY OF OMAHA STANDARD PLATE 504-01 FOR DETAILS. 7. THE CONTRACTOR IS REFERRED TO THE FOLLOWING CITY OF OMAHA STANDARD PLATES:
- 501-01 CONCRETE PAVEMENT JOINTS 502-01 CONCRETE CURBS 501-12 CONCRETE DRIVEWAY
- 504-01 CONCRETE CURB RAMP 8. CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF OMAHA STANDARD SPECIFICATIONS FOR ROW CONSTRUCTION, SECTION 500. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE L6 AIR ENTRAINED.
- 9. CONCRETE PAVEMENT SHALL BE CURED USING A LIQUID-MEMBRANE FORMING COMPOUND AT THE CONCENTRATIONS AND APPLICATION RATES RECOMMENDED BY THE MANUFACTURER. 10. WATER-REDUCING ADMIXTURE SHALL BE ADDED TO ALL HAND-PLACED AND FINISHED CONCRETE.
- 11. JOINT PATTERNS
 - A. THE MAXIMUM PANEL DIMENSION IN FEET IS EQUAL TO THE LESSER OF TWICE THE PAVEMENT THICKNESS IN INCHES OR FIFTEEN FEET. B. THE RATIO OF PANEL LENGTH TO WIDTH SHOULD NOT EXCEED 1.25:1. C. THE OUTER PARKING LOT JOINT SHALL BE REINFORCED TO FORM A RING. SEE DETAIL, SHEET

SIDEWALK NOTES

- 1. SIDEWALK SUBGRADE TO A DEPTH OF 6 INCHES AND TO A WIDTH OF 6 INCHES OUTSIDE OF SIDEWALK EDGES SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE. (SEE SHEET C4.0)
- 2. BACKFILL SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE. (SEE SHEET C4.0)
- 3. THE CONTRACTOR IS REFERRED TO THE FOLLOWING CITY OF OMAHA STANDARD PLATES: SIDEWALK CONSTRUCTION 503-01
- 504-01 CONCRETE CURB RAMP 4. THE CITY OF OMAHA HAS APPROVED THE FOLLOWING DETECTABLE WARNING PANELS. • IRON DOME BY ADA SOLUTIONS, INC. • DETECTABLE WARNING PLATE 4984 BY DEETER FOUNDRY, INC.
 - DURALAST DETECTABLE WARNING PLATE BY EAST JORDAN IRON WORKS • TUFTILE CAST IRON TILES BY TUFTILE, INC. ADVANTAGE TACTILE CAST IRON DETECTABLE WARNINGS
- 5. CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF OMAHA STANDARD SPECIFICATIONS FOR ROW
- CONSTRUCTION, SECTION 500. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE L6 AIR ENTRAINED. 6. CONCRETE PAVEMENT SHALL BE CURED USING A LIQUID-MEMBRANE FORMING COMPOUND AT THE
- CONCENTRATIONS AND APPLICATION RATES RECOMMENDED BY THE MANUFACTURER. 7. WATER-REDUCING ADMIXTURE SHALL BE ADDED TO ALL HAND-PLACED AND FINISHED CONCRETE.
- 8. ALL CURB RAMPS SHALL INCLUDE DETECTABLE WARNING TEXTURING AS PER CITY OF OMAHA STANDARD PLATE NO. 504–01.
- 9. JOINT SEALANT SHALL MEET THE REQUIREMENTS OF SECTION 500.02 (H) OF THE PROJECT SPECIFICATIONS EXPECT AS MODIFIED HEREIN. BITUMASTIC JOINT SEALER IS NOT ALLOWED. POLYURETHANE OR SILICONE JOINT SEALER SHALL COLOR-MATCH THE NEW PCC PAVEMENT. SUBMIT COLOR SAMPLES TO THE OWNER FOR HIS APPROVAL PRIOR TO APPLICATION.



COORDINATE TABLE

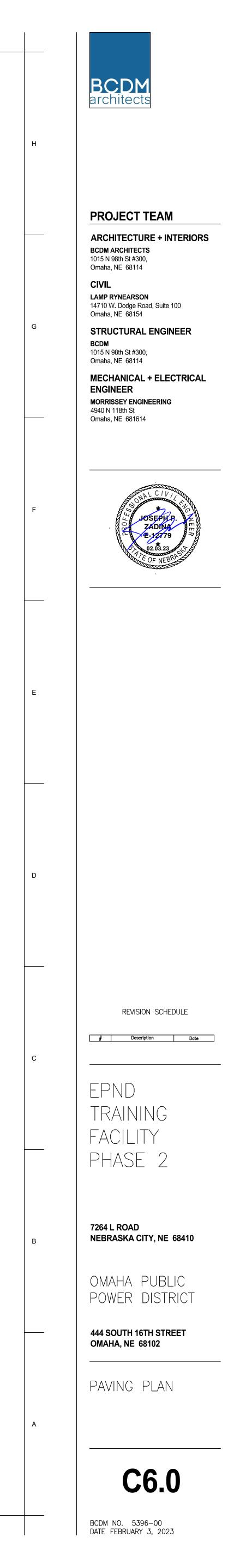
		f	POINT TABL	E
G	POINT	#	NORTHING	EASTING
32	72		61616.79	204733.42
39	73		61545.26	204775.48
19	74		61539.08	204777.48
41	75		61598.31	204569.13
79	76		61658.35	204754.66
00	77		61464.16	204612.54
39	78		61488.26	204784.47
32	79		61452.86	204785.42
38	80		61475.64	204855.82
56	81		61634.42	204742.43
28	82		61637.56	204735.89
35	83		61633.10	204748.11
19	84		61546.52	204776.13
51	85		61536.42	204774.14
D1	86		61529.82	204769.97
98	87		61481.12	204625.97
56	88		61479.27	204620.26
55	89		61590.59	204584.24
)7	90		61591.74	204587.81
51	103		61455.43	204634.28

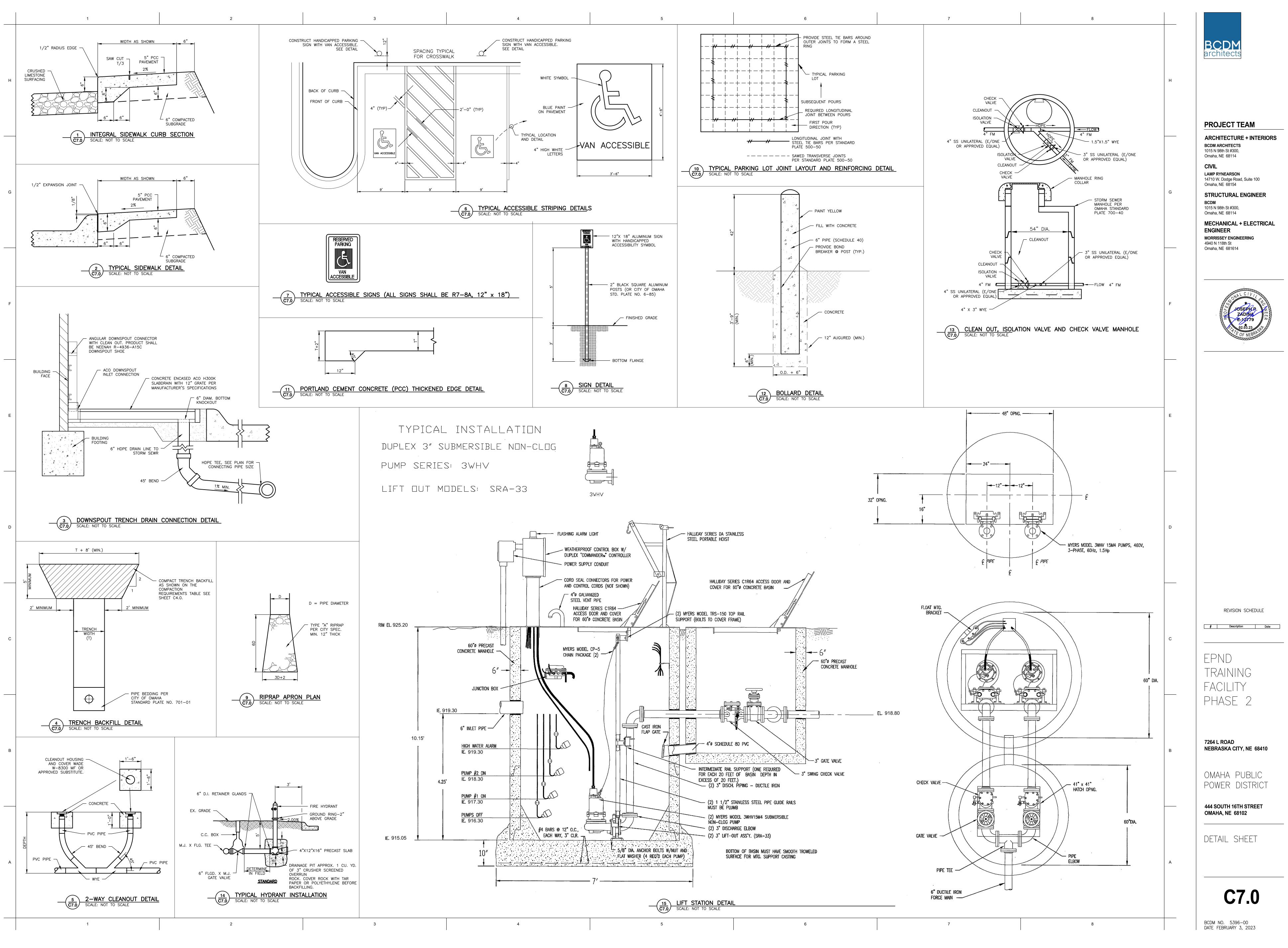
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1	POINT TABL	E
POINT #	NORTHING	EASTING
104	61485.23	204589.96
105	61582.27	204558.55
106	61605.13	204555.77
107	61618.51	204582.82
108	61663.46	204721.73
109	61671.70	204761.48
110	61636.80	204777.39
111	61560.69	204802.02
112	61607.03	204683.76
113	61617.19	204715.16
114	61452.66	204625.72
115	61567.26	204755.75
116	61572.97	204753.91
117	61580.26	204751.55
118	61585.97	204749.70
119	61584.12	204743.99
120	61578.57	204746.31
121	61571.27	204748.67
122	61565.41	204750.04
123	61544.10	204602.44

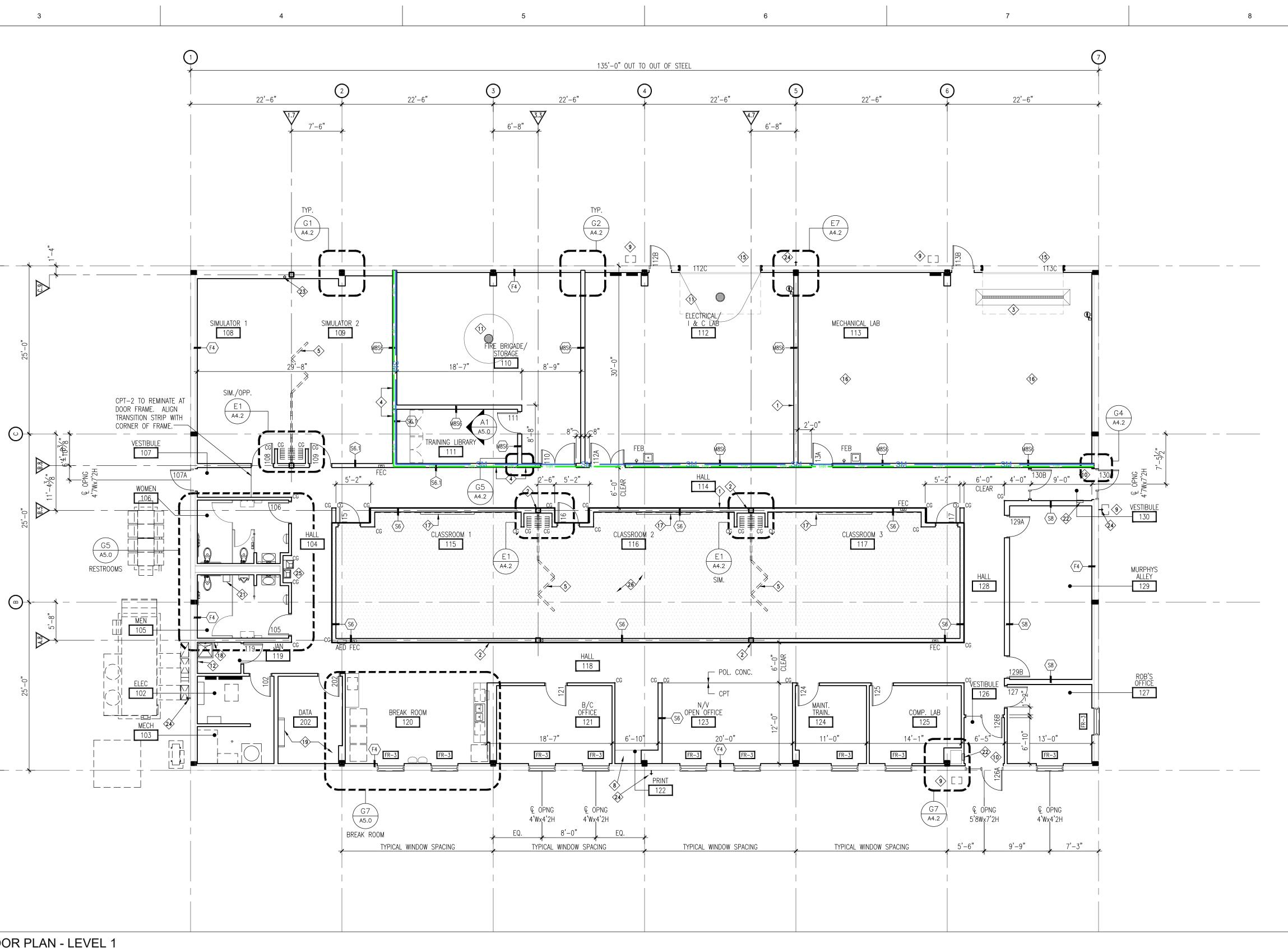
	POINT TABLI	E							
POINT #	NORTHING	EASTING							
124	61547.79	204613.85							
125	61542.08	204615.70							
126	61538.39	204604.28							
127	61612.14	204640.76							
128	61595.02	204646.30							
129	61640.78	204729.24							
130	61629.89	204754.41							
131	61552.82	204778.99							

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	 A. THESE NOTES APPLY TO ALL PLAN AND REFLECE B. ALL CONSTRUCTION SHALL COMPLY TO THE APPLICABLE EDITION OF THE INTERNATIONAL BUIL C. CONTRACTOR SHALL PROTECT ALL CONSTRUCTIO D. ALL GWB TO BE %" TYPE X UNLESS NOTED CONTENT GWB. E. REFER TO GENERAL SHEET FOR PARTITION TYPE F. ALL PARTITIONS THAT INTERACT WITH ROUMANUFACTURER'S RECOMMENDATIONS. G. ALL PERIMETER PARTITIONS TO BE F4 UNLESS H. EXCLUDING PERIMETER PARTITIONS, ALL PARTITIC 	REQUIREMENTS OF THE AMERICANS WITH E LDING CODE. N TO REMAIN FROM DAMAGE. THERWISE. REFER TO PARTITION TYPES FOR S. DF STRUCTURE TO ALLOW FOR EXPANSI ICY SEPARATION DETAIL PER GYPSUM WALL BO NOTED OTHERWISE.	LOCATIONS OF WATER		
	REFERENCED PLAN NOTE	ES (🕸)			⊚≁
	 THESE NOTES APPLY TO ALL PLAN AND REFLECTED CENTER WALL/PARTITION ON GRID LINE. WALL PARTITION IS NOT CENTERED ON GRID COLUMN FINISH PROJECTIONS TO OCCUR ON CI PROVIDE 1'-O" WIDE BORDER TO BE SLOPED LEVEL. ALIGN FINISH. OPERABLE PARTITION. REFER TO PROJECT MANU NOT USED. NOT USED. TWO-DOOR BASE CABINET WITH ADJUSTABLE SH BOOT SCRAPER. REFER TO PROJECT MANUAL. O VESTIBULE TO HAVE WALL TO WALL WALK-OFF PROVIDE MIN. 36"Ø, 1%" SLOPED OFFSET FROM 	LINE. HALLWAY SIDE GWB TO BE UNINTE ASSROOM SIDE. AT 1% AROUND TRENCH DRAIN. OTHERWIS AL. ELF AND SOLID SURFACE TOP. WNER TO PROVIDE CONFIRMATION OF BOOT SC CARPET.	SE CONCRETE SLAB IS CRAPER LENGTH.		
	 OTHERWISE CONCRETE SLAB IS LEVEL. 12. PROVIDE RESILIENT WALL COVERING SYSTEM (AC TO 48" AFF. 13. NOT USED. 14. NOT USED. 15. GENERAL CONTRACTOR AND OVERHEAD DOOR S SUPPLEMENTAL AND MISCELLANEOUS STEEL FOR 16. BRIDGE CRANE BEAM, STRUCTURE, AND EQUIP ADDITIONAL INFORMATION. 17. INSTALL MARKERBOARD ON EACH SIDE OF AV LOCATIONS. 18. MOP HOLDER AND SHELF. REFER TO PROJECT 19. DATA ROOM TO HAVE 6 MIL VAPOR BARRIER C LID TO FINISH AT 12'-0" ABOVE FINISH FLOO ABOVE FINISH FLOOR. COORDINATE THE SUPPLIATA CABLING, CONDUITS, AND DUCTS. 20. NOT USED. 21. PLUMBING ACCESS PANEL ♀ 55" AFF. OCC REFER TO PLUMBING AND PROJECT MANUAL. 22. RECESSED ELECTRIC HEATER. REFER TO ELECTRIC 4." VENT. REFER TO MECHANICAL. COORDINATE 	JPPLIER TO COORDINATE REQUIREMENTS FOR, THE MOUNTING OF DOOR TRACK AND MOTOR MENT ABOVE. REFER TO STRUCTURAL AND DISPLAY. PROVIDE FIRE—TREATED PLYWOOD BA MANUAL. N ALL WALLS AND CEILING. METAL FRAMING R. THE ACOUSTICAL PANEL CEILING SYSTEM ORTS OF SUSPENDED GWB CEILING WITH ME JRS ON MENS SIDE ONLY. CONFIRM LOCA	SUPPLY, AND INSTALL PROJECT MANUAL FOR CKING MATERIAL AT AV AND SUSPENDED GWB TO FINISH AT 10'-0" ECHANICAL, ELECTRICAL,		75'-0"
i .		. PLACEMENT TO EXTERIOR TO MINIMIZE DEPTH	H OF WALL FURRING.		
	 24. WALL HYDRANT. REFER TO MECHANICAL. 25. REFER TO ENLARGED RESTROOM PLAN FOR A DRINKING FOUNTAIN. 26. ADDING TO THE BASE PARTITIONS, ON THE CE VAPOR BARRIER OVER THE CLASSROOMS TO TH THE FULL HEIGHT OF THE PERIMETER PARTITION PUNCTURES. THE GWB LID IS TO BE FIRE TAI FRAMING FOR REQUIREMENTS OF FRAMING. RE ENCLOSURE TO BE CONTINUOUS, INCLUDING B SEAL ALL PENETRATION THRU WALLS AND CEILI THESE AFFECTED DOORS. 	DDITIONAL INFORMATION REGARDING PLACEME LING, PROVIDE METAL STUD FRAMING, %" TYF E EXTENTS SHOWN HATCHED. VAPOR BARRIEI IS. VAPOR BARRIER IS TO HAVE TAPED JOIN YED. SEE PROJECT MANUAL SECTION 05400C FER TO ELECTRICAL AND MECHANICAL FOR AE JLKHEADS OVER PARTITION STRUCTURE AND	NT OF PARTITION AND PE X GWB, AND 6 MIL R IS TO EXTEND DOWN NTS AND FREE OF ANY O COLD FORMED METAL DDITIONAL INFORMATION. STRUCTURAL MEMBERS.		
	 25. REFER TO ENLARGED RESTROOM PLAN FOR A DRINKING FOUNTAIN. 26. ADDING TO THE BASE PARTITIONS, ON THE CEI VAPOR BARRIER OVER THE CLASSROOMS TO TH THE FULL HEIGHT OF THE PERIMETER PARTITIOI PUNCTURES. THE GWB LID IS TO BE FIRE TAI FRAMING FOR REQUIREMENTS OF FRAMING. RE ENCLOSURE TO BE CONTINUOUS, INCLUDING B SEAL ALL PENETRATION THRU WALLS AND CEILI 	DDITIONAL INFORMATION REGARDING PLACEME LING, PROVIDE METAL STUD FRAMING, %" TYF E EXTENTS SHOWN HATCHED. VAPOR BARRIEI IS. VAPOR BARRIER IS TO HAVE TAPED JOIN YED. SEE PROJECT MANUAL SECTION 05400C FER TO ELECTRICAL AND MECHANICAL FOR AE JLKHEADS OVER PARTITION STRUCTURE AND	NT OF PARTITION AND PE X GWB, AND 6 MIL R IS TO EXTEND DOWN NTS AND FREE OF ANY O COLD FORMED METAL DDITIONAL INFORMATION. STRUCTURAL MEMBERS.	D3	TLOO SCALE: ½"
	 25. REFER TO ENLARGED RESTROOM PLAN FOR A DRINKING FOUNTAIN. 26. ADDING TO THE BASE PARTITIONS, ON THE CEI VAPOR BARRIER OVER THE CLASSROOMS TO TH THE FULL HEIGHT OF THE PERIMETER PARTITIOI PUNCTURES. THE GWB LID IS TO BE FIRE TAI FRAMING FOR REQUIREMENTS OF FRAMING. RE ENCLOSURE TO BE CONTINUOUS, INCLUDING B SEAL ALL PENETRATION THRU WALLS AND CEILI 	DDITIONAL INFORMATION REGARDING PLACEME LING, PROVIDE METAL STUD FRAMING, %" TYPE E EXTENTS SHOWN HATCHED. VAPOR BARRIER IS. VAPOR BARRIER IS TO HAVE TAPED JOIN VED. SEE PROJECT MANUAL SECTION 05400C FER TO ELECTRICAL AND MECHANICAL FOR AD JUKHEADS OVER PARTITION STRUCTURE AND NG. REFER TO DOOR SCHEDULE FOR ADDITION SCHEDULE FOR ADDITION MILLION ADDITION APPLICATION	NT OF PARTITION AND PE X GWB, AND 6 MIL R IS TO EXTEND DOWN NTS AND FREE OF ANY O COLD FORMED METAL DDITIONAL INFORMATION. STRUCTURAL MEMBERS.	MARK	TLOO
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OOR PLAN - LEVEL 1

						CEILING		NORTH	I WALL	SOUTH	H WALL	EAST	WALL	WEST	WALL	_
ROOM NO	ROOM NAME	SUBFLOOR MAT'L	FLOOR FINISH	BASE MAT'L	HEIGHT	MATERIAL	FINISH	I MAT'L	FINISH	MAT'L	FINISH	I MAT'L	FINISH	MAT'L	FINISH	NOT
102	ELECTRICAL	CONC.	SEALED CONC.	RB-1	12'-0"	GWB	PNT-6	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	-
103	MECHANICAL	CONC.	SEALED CONC.	RB-1	12'-0"	GWB	PNT-6	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	-
104	HALL	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB/ALUM	PNT-1	GWB	PNT-1	GWB	PNT-1	-
105	MEN	CONC.	POLISHED CONC.	RB-1/T-2	9'-0"	ATC	ATC-1	GWB	T-2	GWB	PNT-5	GWB	PNT-1	GWB	PNT-1	3
106	WOMEN	CONC.	POLISHED CONC.	RB-1/T-1	 .	ATC —	+ <u>-</u>	GWB	+ <u> </u>	GWB -	r		+ $ -$		PNT-1	$\frac{1}{3}$
107	VESTIBULE	CONC.	CPT-2/WALK-OFF	, RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB/ALUM	PNT-1	GWB/ALUM	PNT-1	-
108	SIMULATOR 1	CONC.	CPT-1	RB-1	10'-0"	ATC/GWG	ATC-1/PNT-6	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-2	5
109	SIMULATOR 2	CONC.	CPT-1	RB-1	10'-0"	ATC/GWB	ATC-1/PNT-6	GWB	PNT-1	GWB	PNT-1	GWB	PNT-2	GWB	PNT-1	5
110	FIRE BRIGADE/STORAGE	CONC.	SEALED CONC.	RB-1	~26''-0/VARIES	EXP. STR	PNT-1	PLYWOOD	PNT-1	CMU/GWB	PNT-1	CMU/GWB	PNT-1	CMU/GWB	PNT-1	3,4,6
<u> </u>	TRAINING LIBRARY	CONC.	SEALED CONC.	RB-1		ATC —	+ <u>-</u>		PNT-1	GWB -	PNT-1	<u> </u>	+	GWB	PNT-1	+ -
112	ELECTRICAL/I&C_LAB	CONC.	SEALED CONC.	RB-1	~26''-0/VARIES	EXP. STR	PNT-1	PLYWOOD	PNT-1	CMU/GWB	PNT-1	CMU/GWB	PNT-1	CMU/GWB	PNT-1	3,4,6
113	MECHANICAL LAB	CONC.	SEALED CONC.	RB-1	~26''-0/VARIES	EXP. STR	PNT-1	PLYWOOD	PNT-1	CMU/GWB	PNT-1	PLYWOOD	PNT-1	CMU/GWB	PNT-1	3,4,
114	HALL	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC/GWB	ATC-1/PNT-6	CMU/GWB	PNT-1	GWB	PNT-1	GWB/ALUM	PNT-1	GWB/ALUM	PNT-1	+
115	CLASSROOM 1	CONC.	CPT-1	RB-1	10'-0"	ATC/GWB	ATC-1/PNT-6	GWB	PNT-3	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	5,8
116	CLASSROOM 2	CONC.	CPT-1	RB-1	10'-0"	ATC/GWB	ATC-1/PNT-6	GWB	PNT-3	GWB -	PNT-1	GWB	PNT-1	GWB -	PNT-1	5,8
117	CLASSROOM 3	CONC.	CPT-1	RB-1	10'-0"	ATC/GWB	ATC-1/PNT-6	GWB	PNT-3	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	5,8
118	HALL	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	-
119	JANITOR	CONC.	SEALED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1/ACROV	GWB	PNT-1/ACROV	GWB	PNT-1/ACROV	GWB	PNT-1/ACRO	/ 2,3
120	BREAK ROOM	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
121	B/C OFFICE	CONC.	CPT-1	RB-1	9'-0"	ATC —	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB -	PNT-1	1-
122	PRINT	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
123	N/V OPEN OFFICE	CONC.	CPT-1	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
124	MAINT. TRAINING	CONC.	CPT-1	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
125	COMPUTER LAB	CONC.	CPT-1	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
126	VESTIBULE	CONC.	CPT-2/WALK-OFF		8'-0"	GWB — —	PNT-6	GWB -	PNT-1	GWB/ALUM	PNT-1	GWB	PNT-1	GWB	PNT-1	T_1
127	ROB'S OFFICE	CONC.	CPT-1	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
128	HALL	CONC.	POLISHED CONC.	RB-1	9'-0"	ATC	ATC-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	
129	MURPHY'S ALLEY	CONC.	POLISHED CONC.	RB-1	~26"-0/VARIES	EXP. STR	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	4
130	VESTIBULE	CONC.	CPT-2/WALK-OFF	RB-1	8'-0"	GWB	PNT-6	GWB	PNT-1	GWB	PNT-1	GWB/ALUM	PNT-1	GWB/ALUM	PNT-1	1
202	DATA (MOVED TO LEVEL 1)	CONC.	SEALED CONC.	RB-1	12'-0" SEE NOT	GWB E 7 REGARDING TH	PNT-6 IS ROOM	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	NOTE
					1			1								

5

6

ROOM FINISH SCHEDULE A3 NO SCALE

4

3

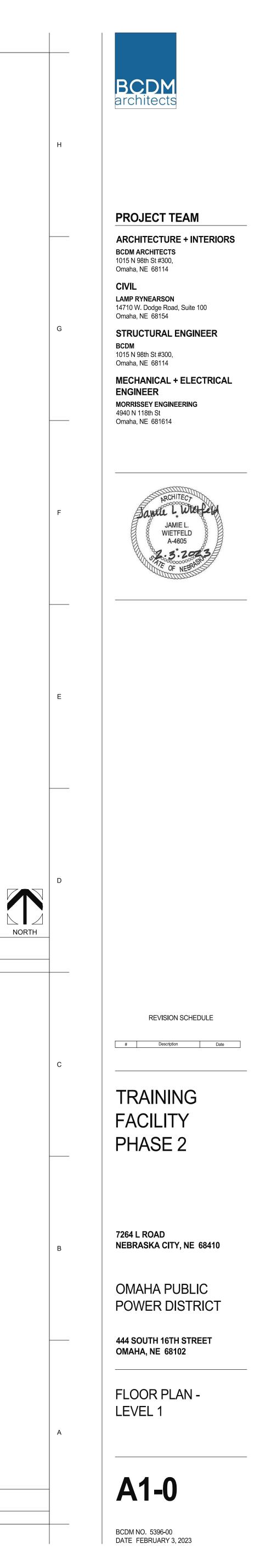
GENERAL NOTES:

- AT RESILIENT WALL COVERING LOCATIONS (ACROVYN OR SIMILAR), USE MANUFACTURER'S COMPATIBLE CORNER GUARD.
- TYPICAL, GYPSUM WALL BOARD CEILINGS AND BULKHEADS SHALL BE PNT-6
- UNLESS NOTED OTHERWISE. • UNLESS NOTED OTHERWISE, TILE FINISH IS FLOOR TO CEILING.

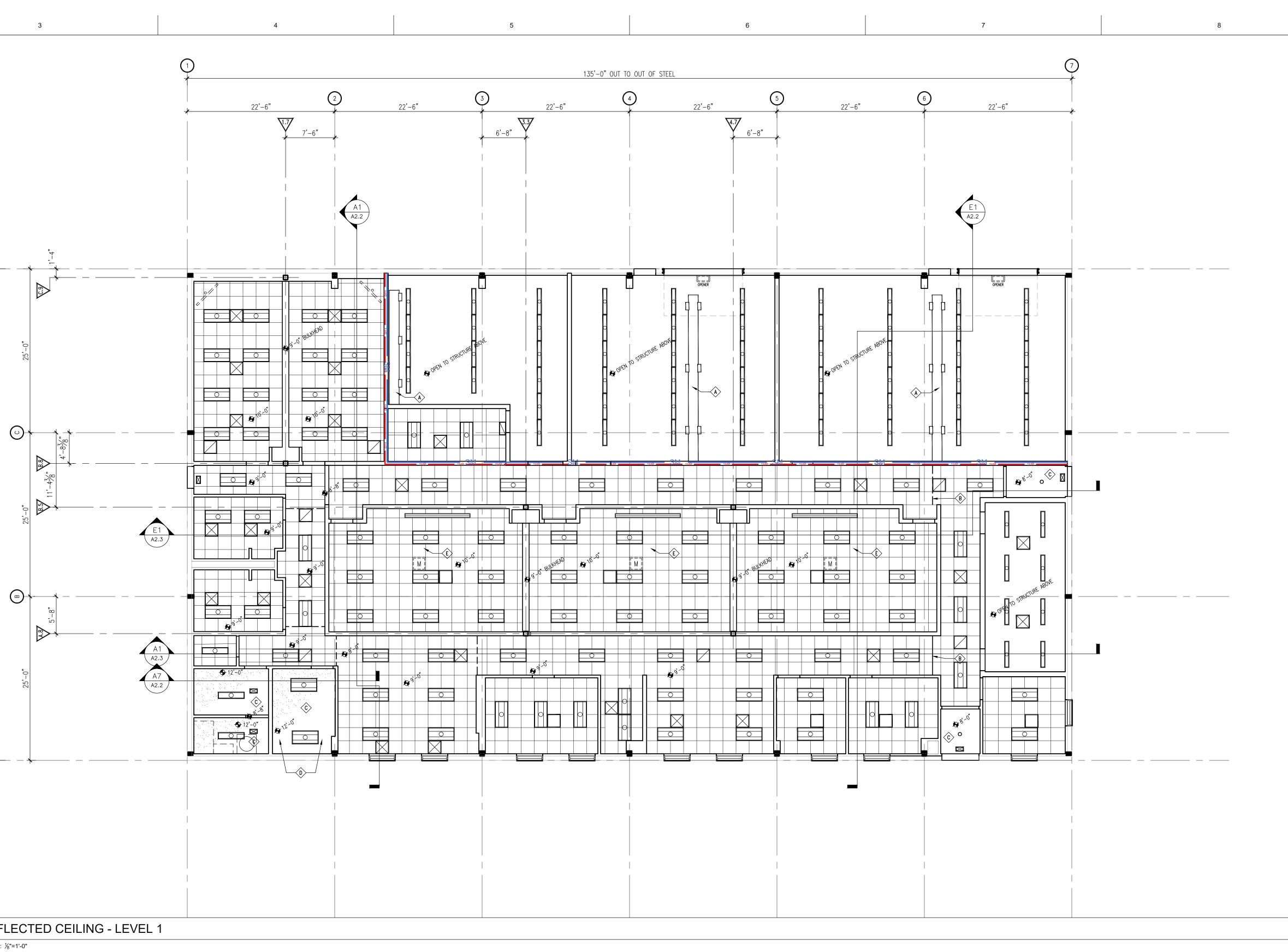
- <u>SCHEDULE_NOTES:</u> 1. INSTALL WALL TO WALL WALK-OFF CARPET TILE.
- 2. PROVIDE RESILIENT WALL COVERING SYSTEM (ACROVYN OR SIMILAR) AROUND MOP SINK TO EXTENTS SHOWN. FLOOR TO 48" AFF.
- 3. PROVIDE EPOXY PAINT AT PAINTED WALLS THIS ROOM. 4. PAINT EXPOSED STRUCTURE INCLUDING DECKING, JOISTS, BEAMS, DUCT WORK,
- PIPING, AND LINER SYSTEM. 5. FINISH BULKHEAD (FOR OPERABLE PARTITION) TO BE 1'-0" BELOW
- FINISH/SCHEDULED ATC CEILING. 6. NORTH WALLS TO RECEIVE %" FIRE TREATED PLYWOOD FLOOR TO 12'-0" AFF (IN LIEU OF GWB). REFER TO PARTITION TYPES.
- 7. DATA ROOM TO HAVE 6 MIL VAPOR BARRIER ON ALL WALLS AND CEILING. METAL FRAMING AND SUSPENDED GWB LID TO FINISH AT 12'–0" ABOVE FINISH FLOOR. COORDINATE THE SUPPORTS OF SUSPENDED GWB CEILING WITH MECHANICAL, ELECTRICAL, DATA CABLING, CONDUITS, AND DUCTS.
- 8. CLASSROOMS 1, 2, & 3: REFER TO REFERENCED PLAN NOTE 26 FOR FURTHER INFORMATION.

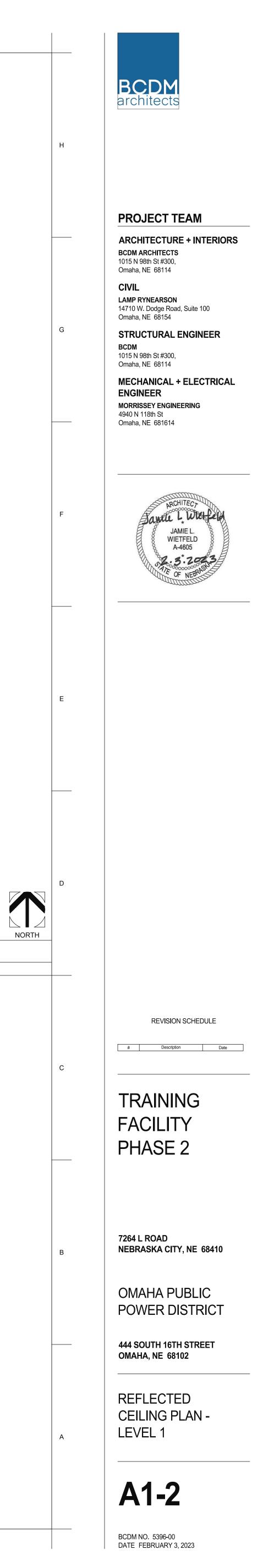
8

IN ADDITION TO DATA AND ELECTRICAL ROOM, WHERE BACKING IS NECESSARY OR REQUIRED, FIRE TREATED BACKING IS TO BE USED. PAINT FINISH AS SCHEDULED. TYPICAL.

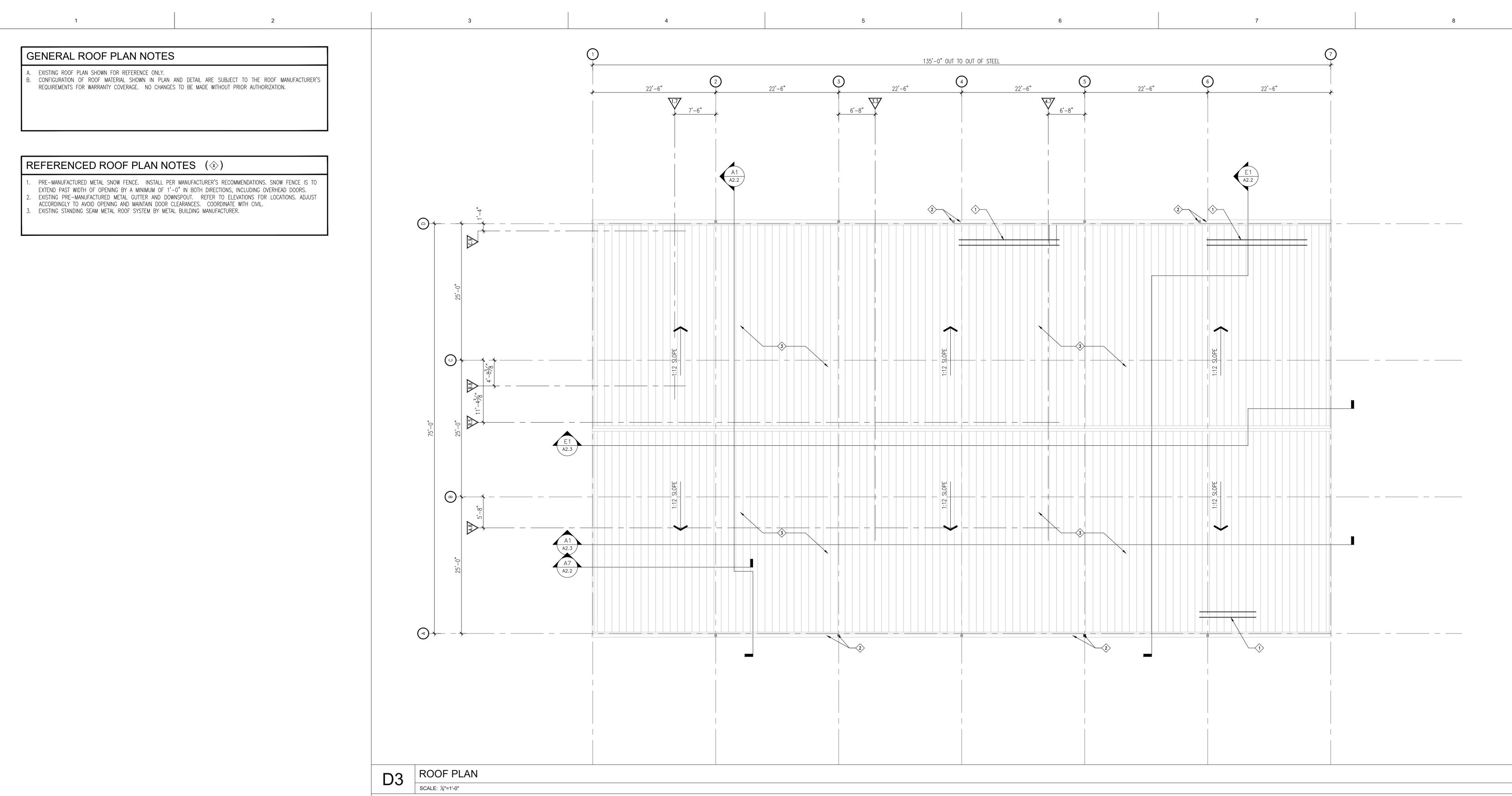


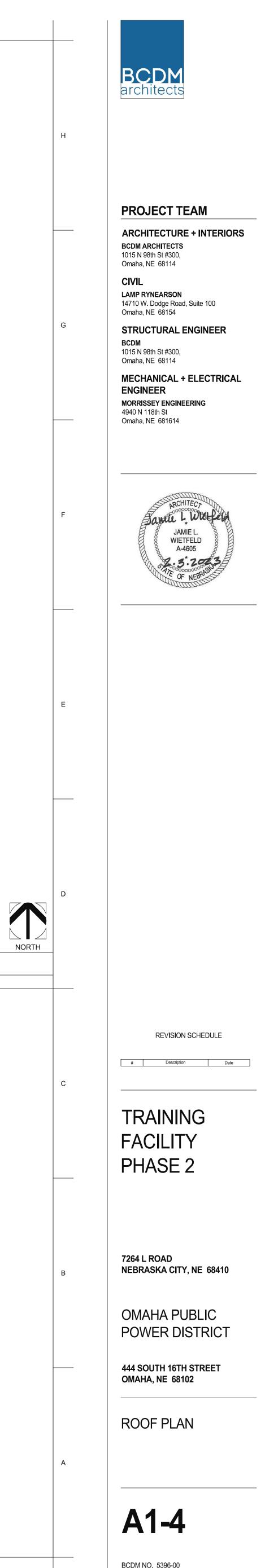
REFLECTED CEILING PLAN LEGEND		
2X2 SUSPENDED GRID AND PAD CEILING NATURAL WOOD LAP SIDING EXISTING LIGHT FIXTURES STAIN FINISH OR PRE-FINISHED EXISTING MECHANICAL DIFFUSERS		
EXISTING 2X2 SUSPENDED GRID AND PAD CEILING EXISTING 2X2 SUSPENDED GRID AND PAD CEILING EXPOSED ROOF/FLOOR JOISTS OR RAFTER PAINT FINISH EXPOSED ROOF/FLOOR JOISTS OR RAFTER PAINT FINISH EXPOSED ROOF/FLOOR JOISTS OR RAFTER PAINT FINISH EXPOSED CONTINUES		
GYPSUM BOARD CEILING (PAINT FINISH) WOOD TRIM FINISH WOOD TRIM FINISH HEAT LAMP	4 ,	
STRUCTURAL WOOD DECKING STAIN FINISH HARDI PANEL SOFFIT BOARD WITH 2X2 BATTENS AT 16" OC. PAINT FINISH CEILING ACCESS PANEL PANEL		
CEILING PLAN NOTES	25, -0,	
 ALL FINISH CEILINGS TO BE 9'-O" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. REFER TO ROOM FINISH SCHEDULE. ALL GYPSUM WALL BOARD BULKHEAD TO BE FINISHED 2" BELOW FINISH SUSPENDED CEILING SYSTEM UNLESS NOTED OTHERWISE. NOT ALL LIGHT FIXTURES AND ELECTRICAL DEVICES ARE REPRESENTED ON REFLECTED CEILING PLAN. SEE ELECTRICAL DRAWINGS. NOT ALL MECHANICAL FIXTURES AND DEVICES ARE REPRESENTED ON REFLECTED CEILING PLAN. SEE MECHANICAL DRAWINGS. 		
	75'-0" 25'-0" 	
 A. MECHANICAL DUCT. SEE MECHANICAL. B. LOCATION OF CUT/RESIZED CEILING PAD (TO ADJUST SPACING) C. GWB CEILING (PAINT FINISH) D. DATA ROOM; REFER TO NOTE 7 ON ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION REGARDING WALLS AND CEILING CONSTRUCTION. 		
E. CLASSROOMS 1, 2, & 3; REFER TO NOTE 26 ON THE REFERENCED PLAN NOTES FOR ADDITIONAL INFORMATION REGARDING WALLS AND CEILING CONSTRUCTION.		
		A A A A A
	52	AZ
	D3 REFLECTED CEILING - L	EVEL
	SCALE: ¹ / ₈ "=1'-0"	



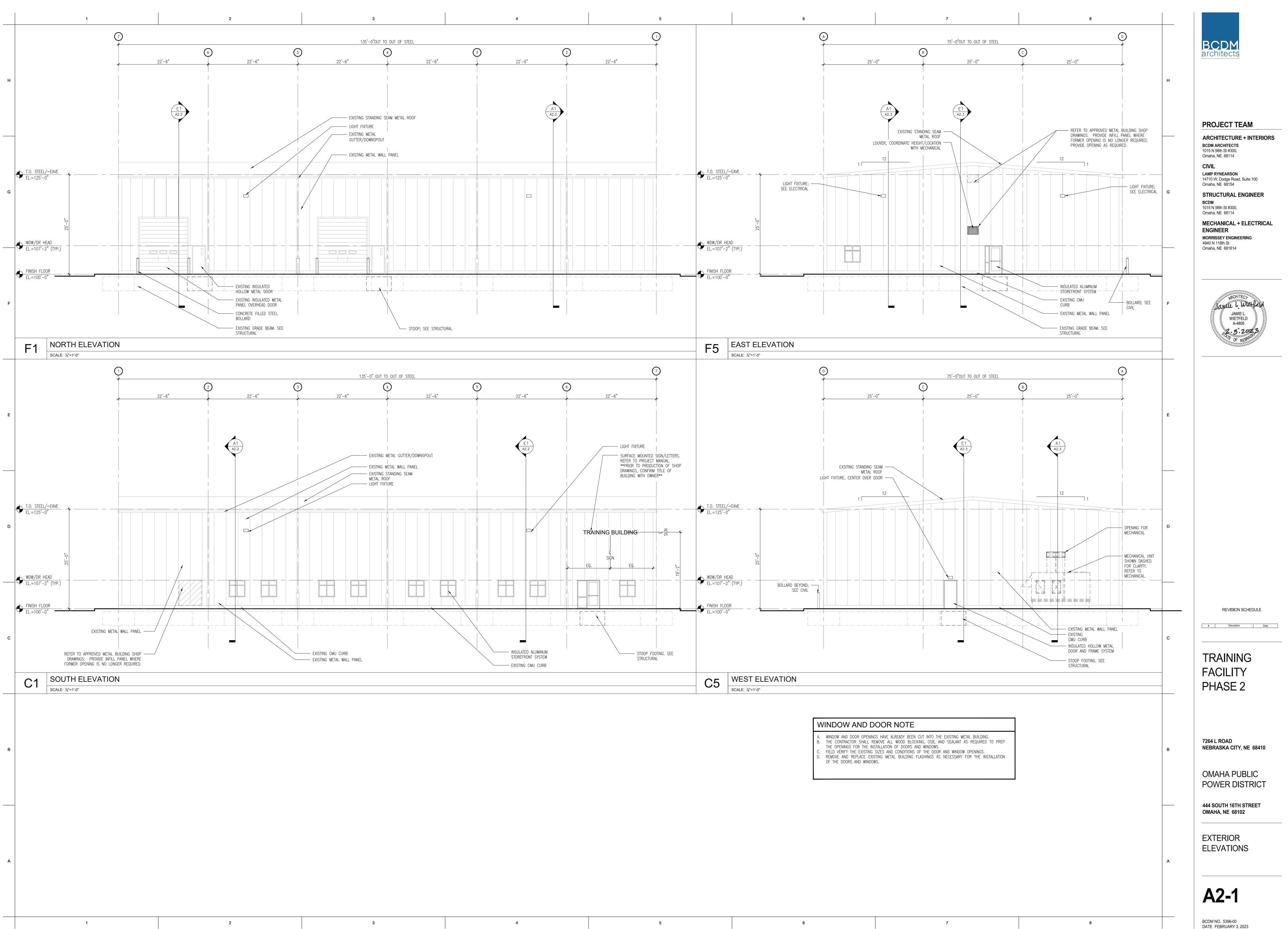


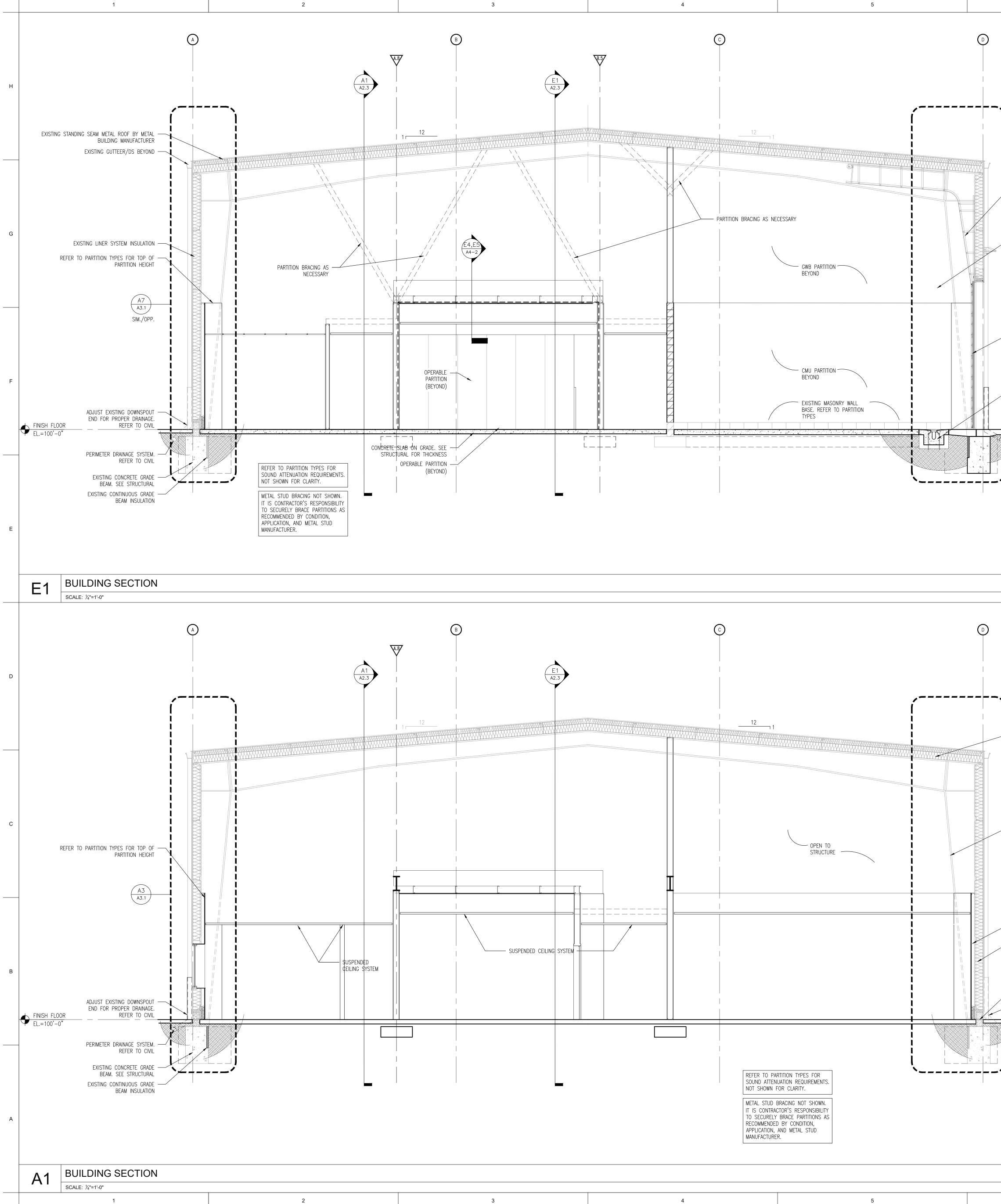
GENERAL ROOF PLAN NOTES A. EXISTING ROOF PLAN SHOWN FOR REFERENCE ONLY. B. CONFIGURATION OF ROOF MATERIAL SHOWN IN PLAN AND DETAIL ARE SUBJECT TO THE ROOF MANUFACTURER'S REQUIREMENTS FOR WARRANTY COVERAGE. NO CHANGES TO BE MADE WITHOUT PRIOR AUTHORIZATION.	
REFERENCED ROOF PLAN NOTES (③)	
 PRE-MANUFACTURED METAL SNOW FENCE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SNOW FENCE IS TO EXTEND PAST WIDTH OF OPENING BY A MINIMUM OF 1'-O" IN BOTH DIRECTIONS, INCLUDING OVERHEAD DOORS. EXISTING PRE-MANUFACTURED METAL GUTTER AND DOWNSPOUT. REFER TO ELEVATIONS FOR LOCATIONS. ADJUST ACCORDINGLY TO AVOID OPENING AND MAINTAIN DOOR CLEARANCES. COORDINATE WITH CIVIL. EXISTING STANDING SEAM METAL ROOF SYSTEM BY METAL BUILDING MANUFACTURER. 	★
	25'-0"
î Î	25, -0"
	A2 A A A2 A A
	↓ ↓
	DOF PLAN LE: ½"=1'-0"





BCDM NO. 5396-00 DATE FEBRUARY 3, 2023





— EXISTING HIGH BAY OVERHEAD DOOR TRACK.
 <u>KEEP DOOR AS CLOSE AS POSSIBLE TO</u> <u>CEILING STRUCTURE.</u>
 <u>COORDINATE LIGHTING, MECHANICAL DUCTING,</u> <u>AND BRIDGE CRANE EQUIPMENT</u>

— BRIDGE CRANE COLUMN BEYOND (NOT SHOWN)

EXISTING OVERHEAD DOOR

Λ5 ` A3.1

______ TRENCH DRAIN; SEE PLUMBING

- EXISTING LINER SYSTEM ROOF INSULATION

- EXISTING METAL BUILDING STRUCTURE

(A5 (A3.1) SEE PARTITION TYPES

— EXISTING LINER SYSTEM INSULATION

- ADJUST EXISTING DOWNSPOUT END FOR PROPER DRAINAGE. REFER TO CIVIL

— PERIMETER DRAINAGE SYSTEM. SEE CIVIL

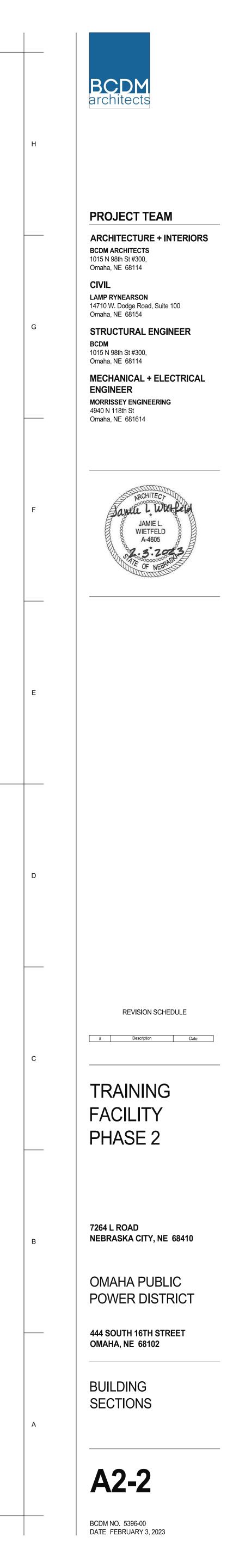
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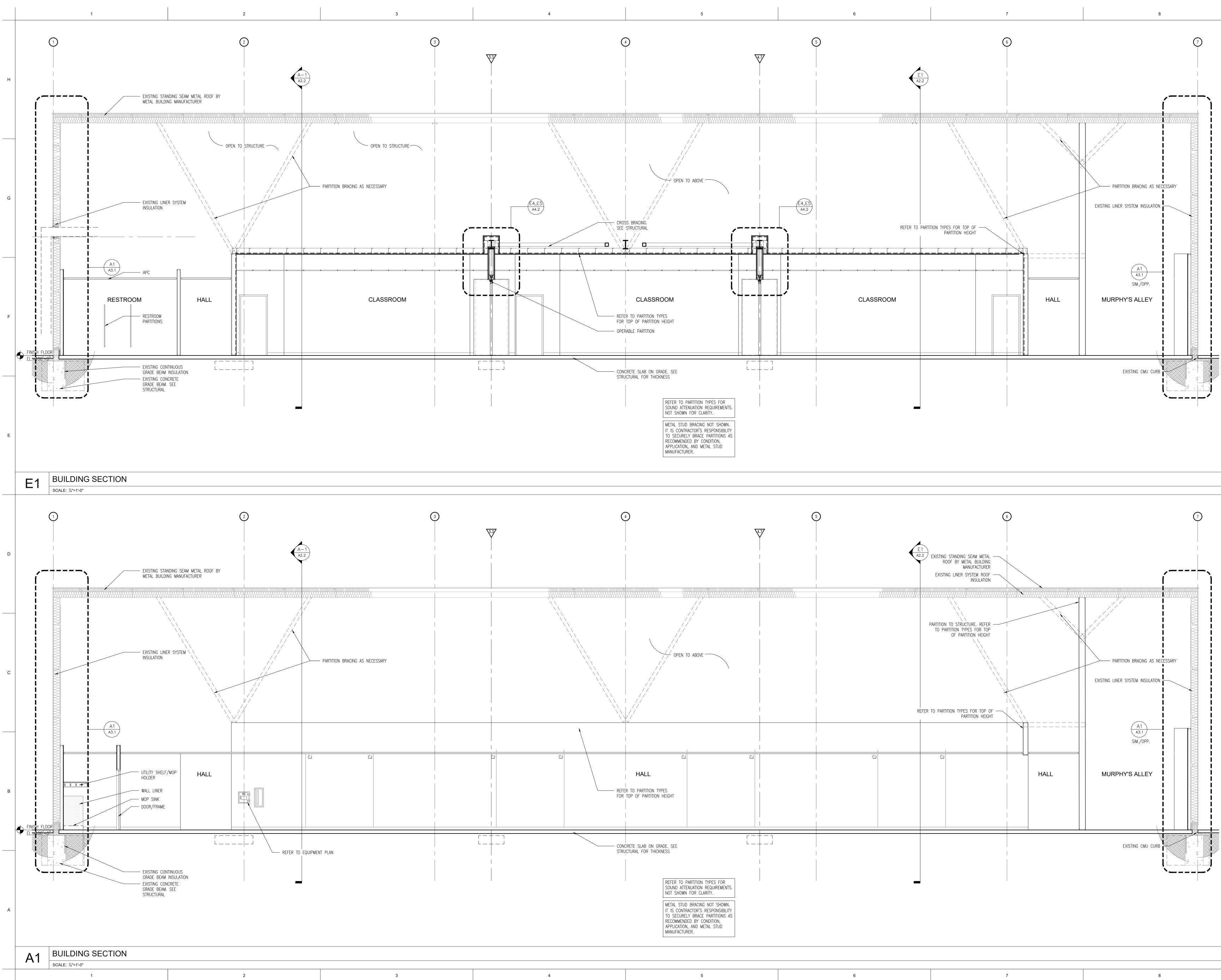
GENERAL SECTION NOTES

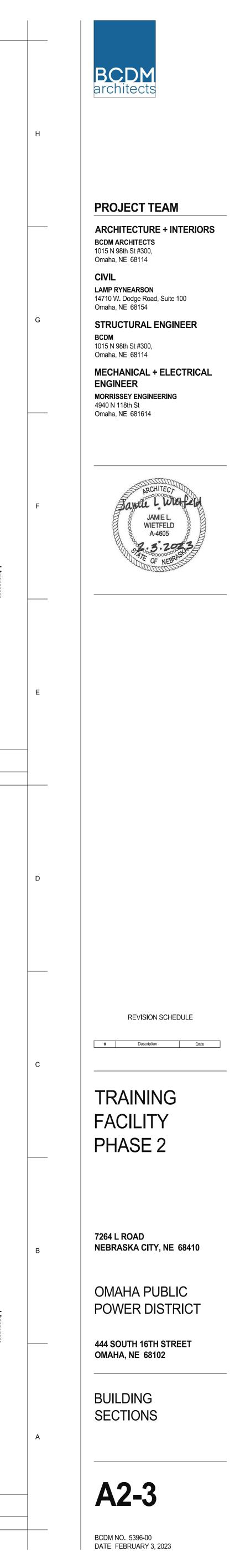
- A. THESE NOTES APPLY TO ALL PLAN AND BUILDING AND WALL SECTION SHEETS. B. FOR CLARITY, WALL BRACING IS NOT SHOWN. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING
- NECESSARY ABOVE CEILING BRACING FOR PARTITIONS. REFER TO PARTITION TYPES. B. FOR CLARITY, SOUND ATTENUATION BLANKETS ARE NOT SHOWN IN THE PARTITIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING SOUND ATTENUATION BLANKETS AS SHOWN IN PARTITION TYPES. REFER TO PARTITION TYPES.

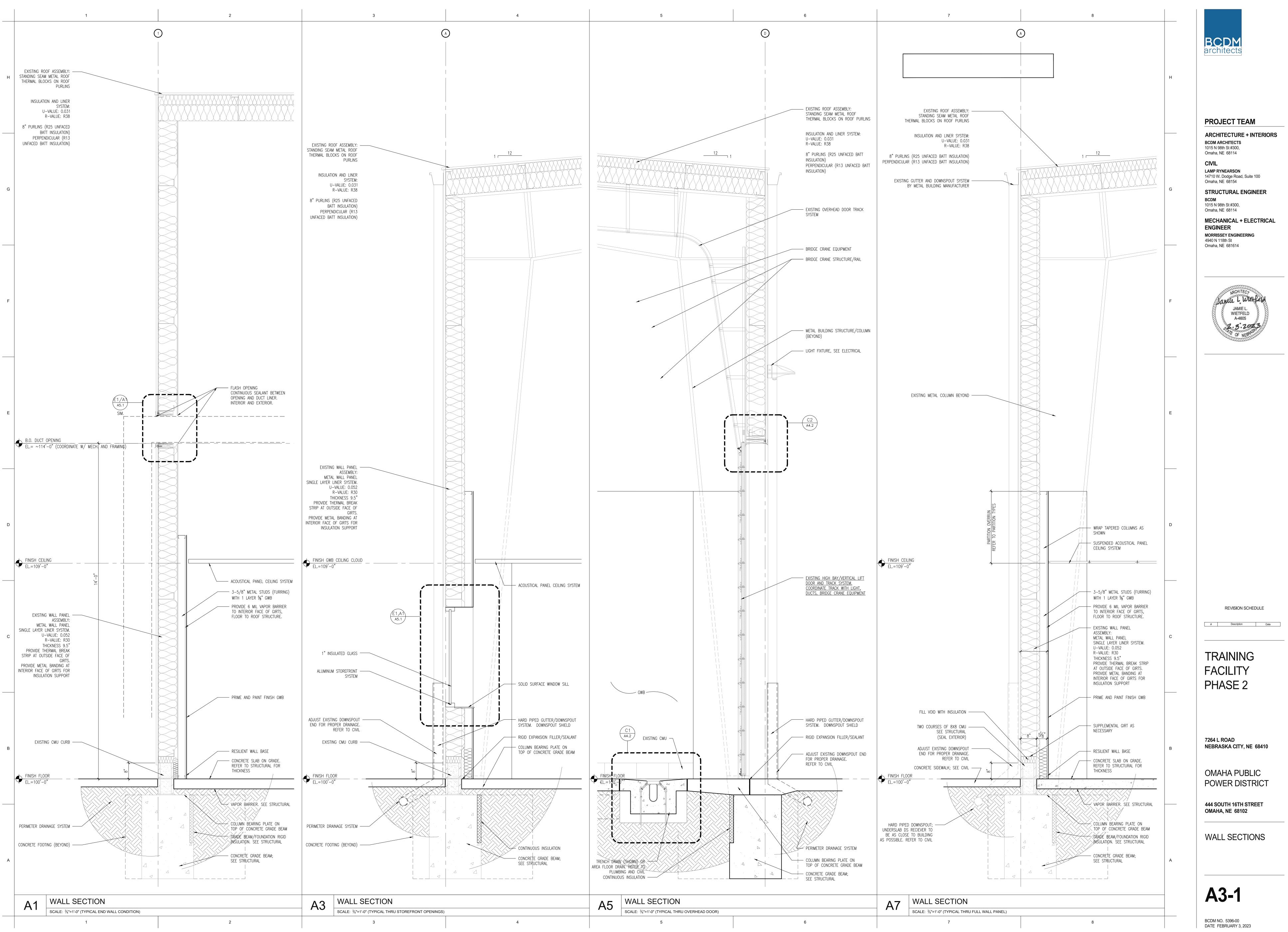
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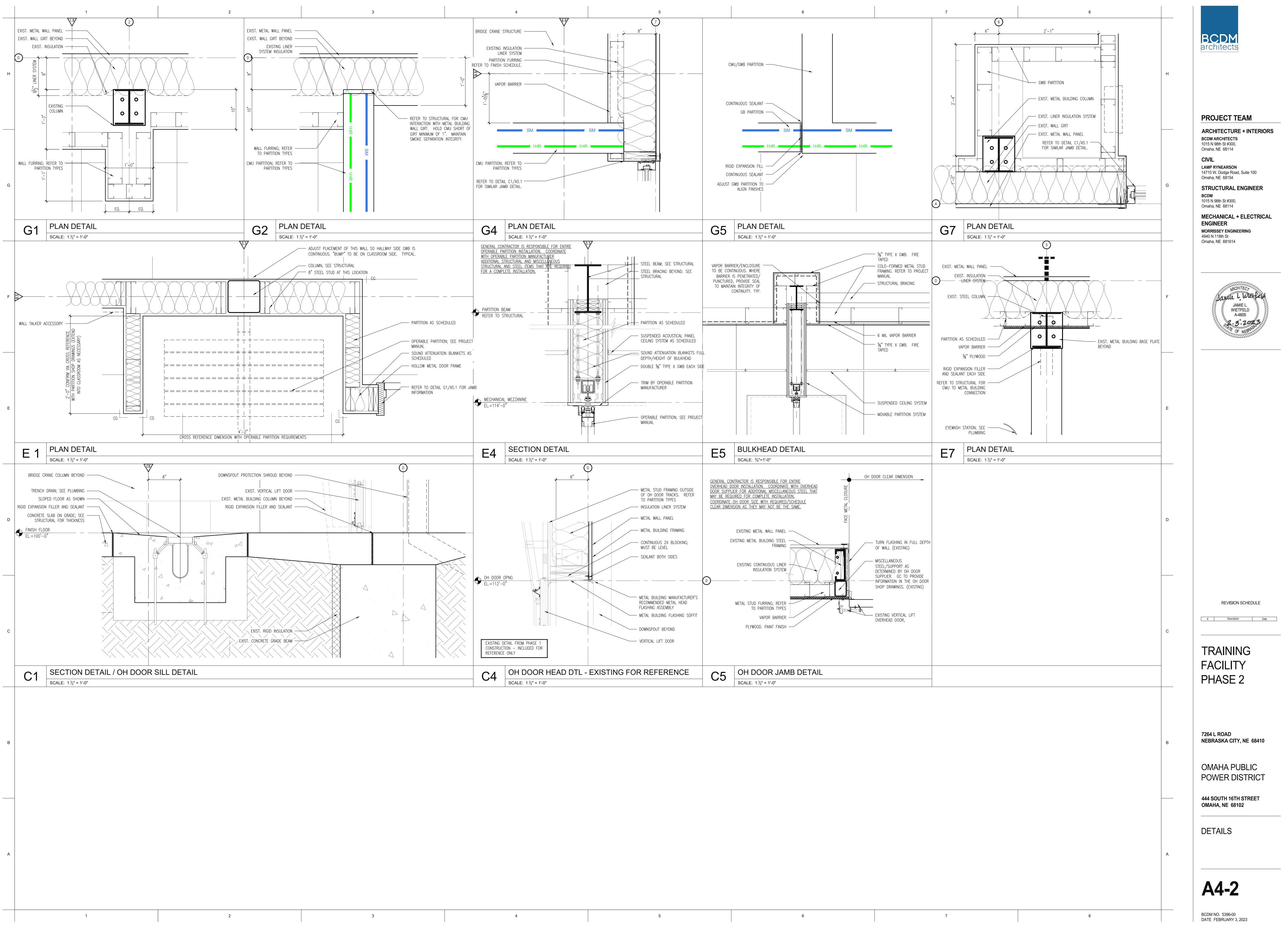
- C. ALL GWB TO BE % TYPE X UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES FOR LOCATIONS OF WATER RESISTANT GWB. . REFER TO GENERAL SHEET FOR PARTITION TYPES.
- E. ALL PARTITIONS THAT INTERACT WITH ROOF STRUCTURE TO ALLOW FOR EXPANSION/FLEX PER STUD MANUFACTURER'S RECOMMENDATIONS. OCCUPANCY SEPARATION DETAIL PER GYPSUM WALL BOARD MANUFACTURER'S RECOMMENDATIONS.
- ALL PERIMETER PARTITIONS TO BE F4 UNLESS NOTED OTHERWISE. G. EXCLUDING PERIMETER PARTITIONS, ALL PARTITIONS TO BE S4 UNLESS NOTED OTHERWISE. REFER TO FLOOR PLAN FOR PARTITION TYPE IDENTIFICATION(S).
- H. UNLESS NOTED OTHERWISE, GYPSUM WALL BOARD BULKHEADS TO BE 2" LOWER THAN THE SCHEDULED FINISH CEILING HEIGHT. TYPICAL.

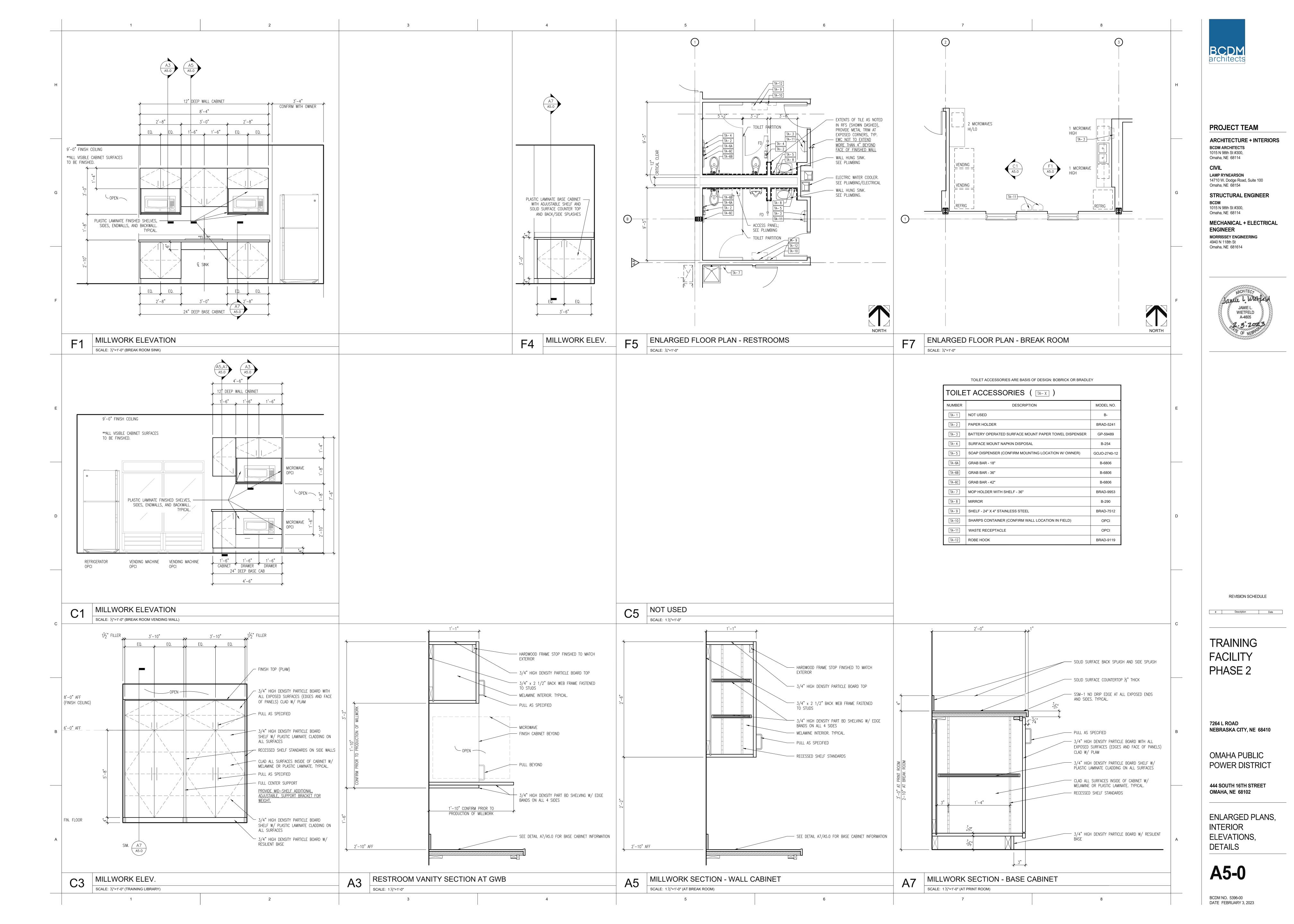


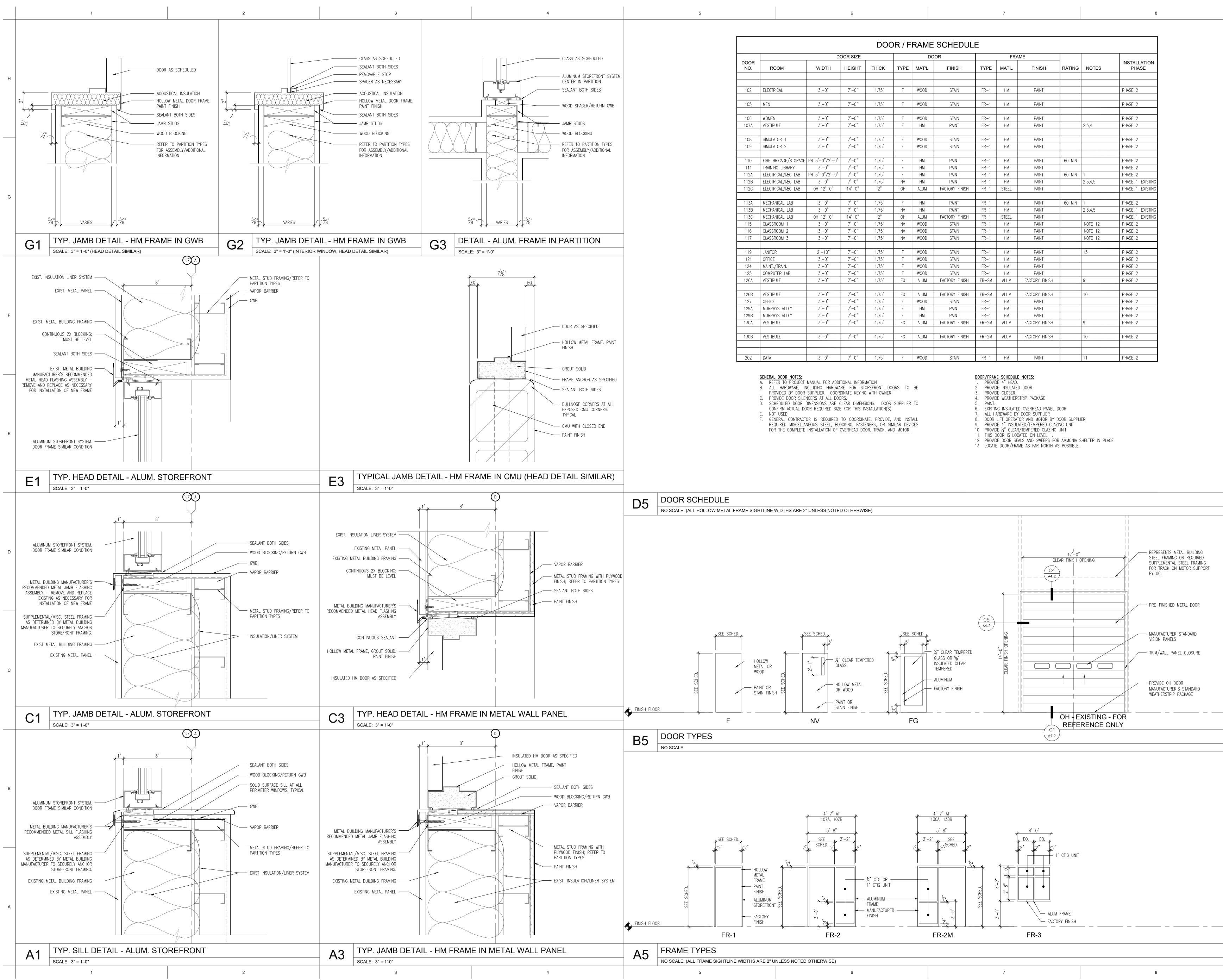






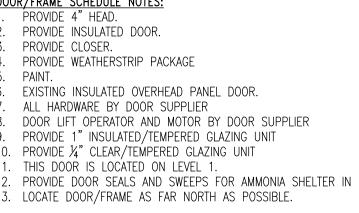


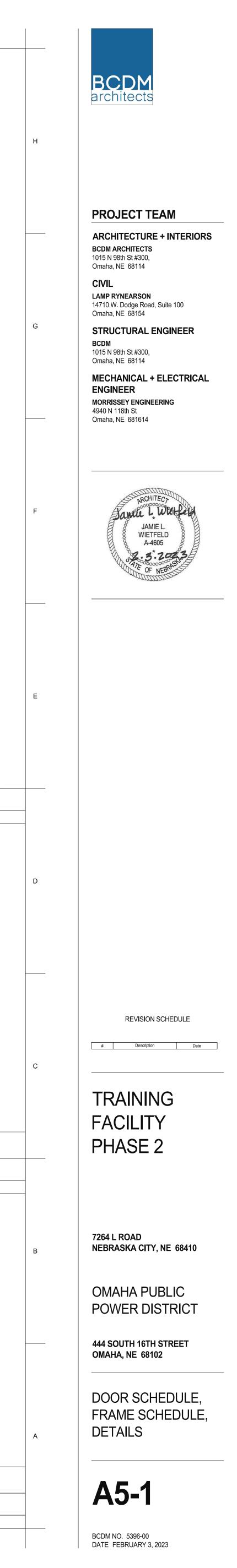




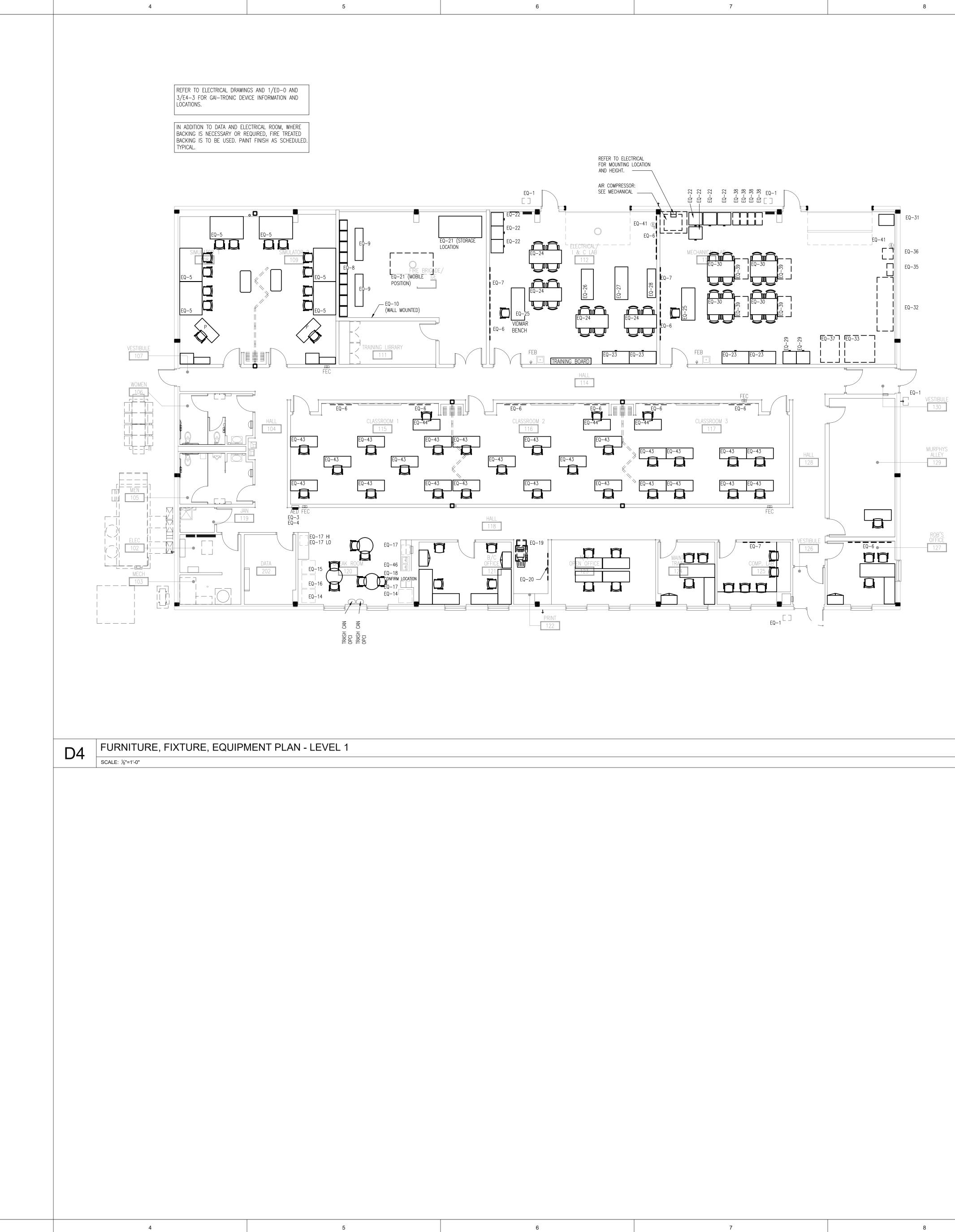
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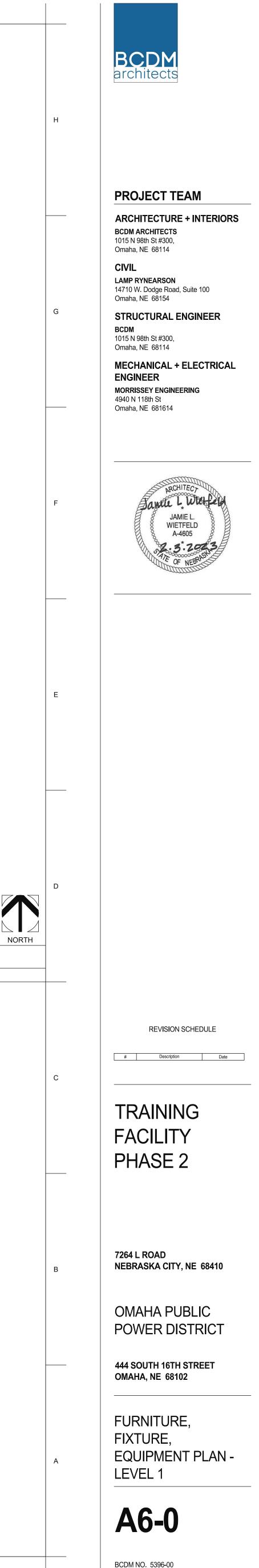
	D	OOR SIZE	IZE DOOR FRAME			DOOR						
	WIDTH	HEIGHT	THICK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	RATING	NOTES	INSTALLATION PHASE
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	HM	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	CTAIN		1114	DAINIT			
	5 -0	/ -0	1./5	F	WOOD	STAIN	FR-1	HM	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	HM	PAINT	FR-1	HM	PAINT		2,3,4	PHASE 2
	5 0	/ 0	1.70		1 1111				17401		2,0,1	
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT			PHASE 2
TORAGE	PR 3'-0"/2'-0"	7'-0"	1.75"	F	НМ	PAINT	FR-1	НМ	PAINT	60 MIN		PHASE 2
7Y	3'-0"	7'-0"	1.75"	F	НМ	PAINT	FR-1	HM	PAINT			PHASE 2
LAB	PR 3'-0"/2'-0"	7'-0"	1.75"	F	НМ	PAINT	FR-1	НМ	PAINT	60 MIN	1	PHASE 2
LAB	3'-0"	7'-0"	1.75"	NV	HM	PAINT	FR-1	HM	PAINT		2,3,4,5	PHASE 1-EXISTI
LAB	OH 12'-0"	14'-0"	2"	OH	ALUM	FACTORY FINISH	FR-1	STEEL	PAINT			PHASE 1-EXISTI
B	3'-0"	7'-0"	1.75"	F	HM	PAINT	FR-1	HM	PAINT	60 MIN	1	PHASE 2
B	3'-0"	7'-0"	1.75"	NV	HM	PAINT	FR-1	HM	PAINT		2,3,4,5	PHASE 1-EXISTI
3	0H 12'-0" 3'-0"	14'-0" 7'-0"	2" 1.75"	OH NV	ALUM WOOD	FACTORY FINISH STAIN	FR-1 FR-1	STEEL HM	PAINT		NOTE 12	PHASE 1-EXISTI PHASE 2
	3'-0"	7'-0"	1.75	NV	WOOD	STAIN	FR-1 FR-1	HM	PAINT		NOTE 12	PHASE 2 PHASE 2
	3'-0"	7'-0"	1.75"	NV	WOOD	STAIN	FR-1	HM	PAINT		NOTE 12	PHASE 2
	0 0	/ 0	1.70		11000	01/414						
	2'-10"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT		13	PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	HM	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	FG	ALUM	FACTORY FINISH	FR-2M	ALUM	FACTORY FINISH		9	PHASE 2
	3'-0"	7'-0"	1.75"	FG	ALUM	FACTORY FINISH	FR-2M	ALUM	FACTORY FINISH		10	PHASE 2
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	HM	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	F	HM	PAINT	FR-1	HM	PAINT			PHASE 2
,	3'-0"	7'-0"	1.75"	F	HM	PAINT	FR-1	HM	PAINT			PHASE 2
	3'-0"	7'-0"	1.75"	FG	ALUM	FACTORY FINISH	FR-2M	ALUM	FACTORY FINISH		9	PHASE 2
	3'-0"	7'-0"	1.75"	FG	ALUM	FACTORY FINISH	FR-2M	ALUM	FACTORY FINISH		10	PHASE 2
	5-0	/ -0	1./0	r6	ALUM	FACIUKI FINISH	ΓK−∠M	ALUM	FACIURI FINISH		IU	MASE Z
	3'-0"	7'-0"	1.75"	F	WOOD	STAIN	FR-1	НМ	PAINT		11	PHASE 2





EQUIPMENT SCHEDULE Room No. Equipment or Item Notes EQ-1 MOUNTED BOOT SCRAPER NORTHERN TOOL + EQUIPMENT; MODEL BB2: www.NorthernTool.com
BB2:www.NorthernTool.comCONTRACTORPROVIDED, CONTRACTOREQ-2NOTUSEDEQ-3AED CABINETSEE SPEC SECTION 10 43 00EQ-4FIRST AID KITOWNER PROVIDED, OWNER INSTALLEDEQ-5CONSOLESOWNER PROVIDED, OWNER INSTALLEDEQ-6WHITEBOARDSEE SPEC SECTION 10 11 00EQ-7WALL MOUNT FOR DISPLAYSEE ELECTRICALEQ-8BUNKER GEAR LOCKERSSEE SPEC SECTION 10 21 13.19EQ-9BENCHESSEE SPEC SECTION 10 21 13.19EQ-10BREATHING APPARATUS MOUNTS QUANTITY:6 (SIX) REQUIREDEQ-11NOT USEDCONTRACTOR INSTALLEDEQ-12WHITEBOARD WALL COVERINGSEE SPEC SECTION 09 72 00EQ-13PROJECTION SCREENSEE ELECTRICALEQ-14REFRIGERATOROWNER PROVIDED, OWNER INSTALLEDEQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
EQ-2NOT USEDNOT USEDEQ-3AED CABINETSEE SPEC SECTION 10 43 00EQ-4FIRST AID KITOWNER PROVIDED, OWNER INSTALLEDEQ-5CONSOLESOWNER PROVIDED, OWNER INSTALLEDEQ-6WHITEBOARDSEE SPEC SECTION 10 11 00EQ-7WALL MOUNT FOR DISPLAYSEE ELECTRICALEQ-8BUNKER GEAR LOCKERSSEE SPEC SECTION 10 51 43EQ-9BENCHESSEE SPEC SECTION 10 21 13.19GRAINGER, INC.; SUGATSUNE WALL HOC WITH A WORKING LOAD OF 26 LBS, ITEN QUANTITY:GRAINGER, INC.; SUGATSUNE WALL HOC WITH A WORKING LOAD OF 26 LBS, ITEN #4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-10BREATHING APPARATUS MOUNTS QUANTITY:#4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-11NOT USED
EQ-4FIRST AID KITOWNER PROVIDED, OWNER INSTALLEDEQ-5CONSOLESOWNER PROVIDED, OWNER INSTALLEDEQ-6WHITEBOARDSEE SPEC SECTION 10 11 00EQ-7WALL MOUNT FOR DISPLAYSEE ELECTRICALEQ-8BUNKER GEAR LOCKERSSEE SPEC SECTION 10 51 43EQ-9BENCHESSEE SPEC SECTION 10 21 13.19EQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIREDGRAINGER, INC.; SUGATSUNE WALL HOC WITH A WORKING LOAD OF 26 LBS, ITEN #4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIRED#CONTRACTOR INSTALLEDEQ-11NOT USEDImage: Contractor of the second seco
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EQ-8BUNKER GEAR LOCKERSSEE SPEC SECTION 10 51 43EQ-9BENCHESSEE SPEC SECTION 10 21 13.19EQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIREDGRAINGER, INC.; SUGATSUNE WALL HOO WITH A WORKING LOAD OF 26 LBS, ITEN #4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-11NOT USEDEQ-12WHITEBOARD WALL COVERINGSEE SPEC SECTION 09 72 00EQ-13PROJECTION SCREENSEE ELECTRICALEQ-14REFRIGERATOROWNER PROVIDED, OWNER INSTALLEDEQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
EQ-9BENCHESSEE SPEC SECTION 10 21 13.19EQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIREDGRAINGER, INC.; SUGATSUNE WALL HOO WITH A WORKING LOAD OF 26 LBS, ITEN #4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIRED#4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-11NOT USEDEQ-12EQ-12WHITEBOARD WALL COVERINGSEE SPEC SECTION 09 72 00EQ-13PROJECTION SCREENSEE ELECTRICALEQ-14REFRIGERATOROWNER PROVIDED, OWNER INSTALLEDEQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
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EQ-10BREATHING APPARATUS MOUNTS QUANTITY: 6 (SIX) REQUIREDWITH A WORKING LOAD OF 26 LBS, ITEM #4DRV7: www.grainger.com. OR APPRO EQUALCONTRACTORE PROVIDED, CONTRACTOR INSTALLEDEQ-11NOT USEDEQ-12WHITEBOARD WALL COVERINGSEE SPEC SECTION 09 72 00EQ-13PROJECTION SCREENSEE ELECTRICALEQ-14REFRIGERATOROWNER PROVIDED, OWNER INSTALLEDEQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
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EQ-13APROJECTOR WITH CEILING MOUNTSSEE ELECTRICALEQ-14REFRIGERATOROWNER PROVIDED, OWNER INSTALLEDEQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
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EQ-15VENDING - SNACKOWNER PROVIDE, OWNER INSTALLEDEQ-16VENDING - BEVERAGEOWNER PROVIDE, OWNER INSTALLEDEQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
EQ-17MICROWAVEOWNER PROVIDE, OWNER INSTALLEDEQ-18COFFEE MAKEROWNER PROVIDE, OWNER INSTALLED
EQ-18 COFFEE MAKER OWNER PROVIDE, OWNER INSTALLED
EQ-20 TACK BOARD SEE SPEC SECTION 10 11 00
EQ-21 FLOW TRAINER OWNER PROVIDED, OWNER INSTALLED
EQ-22 VIDMAR 9 DRAWER OWNER PROVIDED, OWNER INSTALLED EQ-23 VIDMAR 4 DRAWER OWNER PROVIDED, OWNER INSTALLED
EQ-23VIDMAR 4 DRAWEROWNER PROVIDED, OWNER INSTALLEDEQ-24VIDMAR BENCH W/OUT STORAGEOWNER PROVIDED, OWNER INSTALLED
EQ-24VIDMAR BENCH W/OOTSTOKAGEOWNER PROVIDED, OWNER INSTALLEDEQ-25VIDMAR BENCH W/ STORAGEOWNER PROVIDED, OWNER INSTALLED
EQ-26RESISTANCE TESTER PART 1OWNER PROVIDED, OWNER INSTALLED
EQ-27 RESISTANCE TESTER PART 2 OWNER PROVIDED, OWNER INSTALLED
EQ-28LAB VOLTOWNER PROVIDED, OWNER INSTALLEDEQ-29VIDMAR LOCKEROWNER PROVIDED, OWNER INSTALLED
EQ-29VIDMAR LOCKEROWNER PROVIDED, OWNER INSTALLEDEQ-30WELDING BENCHOWNER PROVIDED, OWNER INSTALLED
EQ-31 HOZTY PRESSURE WASHER OWNER PROVIDED, OWNER INSTALLED
EQ-32 LE BLOND LATHE OWNER PROVIDED, OWNER INSTALLED
EQ-33 ACRA CNC MILL OWNER PROVIDED, OWNER INSTALLED
EQ-34 NOT USED NOT USED
EQ-35 WILTON DRILL PRESS OWNER PROVIDED, OWNER INSTALLED
EQ-36BENCH GRINDEROWNER PROVIDED, OWNER INSTALLEDEQ-37PEERLESS VERTIAL SAWOWNER PROVIDED, OWNER INSTALLED
EQ-38 WELDERS OWNER PROVIDED, OWNER INSTALLED
EQ-39 WELDER EXHAUST CART OWNER PROVIDED, OWNER INSTALLED
EQ-40 CNC EXHAUST SEE MECHANICAL
EQ-41 EYE WASH STATION SEE MECHANICAL
EQ-42 NOT USED EQ-43 STUDENT WORK STATIONS AND CHAIRS OWNER PROVIDED, OWNER INSTALLED
EQ-44 INSTRUCTOR DESK AND CHAIR OWNER PROVIDED, OWNER INSTALLED
EQ-45 NOT USED NOT USED
EQ-46 GARBAGE DISPOSAL SEE MECHANICAL
EQ-47 NOT USED NOT USED





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DESIGN CRITERIA

3.

- 1. BUILDING CODE: INTERNATIONAL BUILDING CODE 2012 + ANY APPLICABLE LOCAL AMENDMENTS. DEAD LOAD: WEIGHT OF ALL STRUCTURAL AND NON-STRUCTURAL PERMANENT COMPONENTS OF THE 2.
- BUILDING. ROOF LIVE LOADS: MIN. LOAD USED IN DESIGN IS GREATER OF 20 PSF OR APPLICABLE SNOW DRIFT.
- 4.
- ROOF SNOW LOAD FACTORS: GROUND SNOW LOAD (Pg) FLAT ROOF SNOW LOAD (Pf) SNOW EXPOSURE FACTOR (Ce) SNOW LOAD IMPORTANCE FACTOR (Is) THERMAL FACTOR (Ct) WIND LOAD FACTORS: 5.
- BASIC WIND SPEED 115 MPH RISK CATEGORY EXPOSURE CATEGORY 6. SEISMIC LOAD FACTORS: SITE CLASS =

SEISMIC IMPORTANCE FACTOR le

SPECTRAL RESPONSE COEFFICIENT SDS 0.084 SPECTRAL RESPONSE COEFFICIENT SD1 0.079 1.0

30 PSF

20 PSF

1.0

1.0

1.0

7. NO PROVISIONS FOR FUTURE EXPANSION

SEISMIC DESIGN CATEGORY

RISK CATEGORY

•

COORDINATION AND VERIFICATION

10.

11.

1. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DESCREPANCIES FOUND. 2. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE, ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK.

FOUNDATIONS

- 1. ALL FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE = 2000 PSF
- PROVIDE SHEETING, SHORING, AND BRACING AS REQUIRED TO PROTECT ADJACENT BUILDINGS, STREET, AND UTILITIES.
- 3. AT PERIMETER FOOTINGS AND FOOTINGS BENEATH UNHEATED AREAS, FROST DEPTH TO BE MINIMUM 42 INCHES BELOW FINISH GRADE.
- 4. SUBSOIL INVESTIGATION REPORT AND BORING LOGS ARE INCLUDED IN THE PROJECT SPECIFICATIONS. THE
- CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THIS REPORT AND FOLLOW ALL RECOMMENDATIONS. NOTIFY ENGINEER AND GEOTECHNICAL ENGINEER OF UNUSUAL SOIL CONDITIONS BEFORE PROCEEDING WITH

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- 2. SUBMIT SHOP DRAWINGS FOR ALL REINFORCING STEEL AND EMBEDDED ITEMS.

WORK. THIS INCLUDES SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS.

- 3. COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306, HOT WEATHER CONCRETING SHALL CONFORM TO ACI - 305
- DO NOT PLACE PIPES, DUCTS, OR OTHER ITEMS IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE ARCHITECT OR ENGINEER.
- ALL REINFORCEMENT, ANCHOR BOLTS, & EMBEDED ITEMS SHALL BE PLACED AND INSPECTED PRIOR TO 5. CONCRETE PLACEMENT. DO NOT "FLOAT" ITEMS INTO FOOTINGS
- REINFORCEMENT: DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60. 6.
- WELDED WIRE FABRIC TO BE FLAT SHEETS AND CONORM TO ASTM A 185. 7.
- 8. CEMENT: NORMAL PORTLAND CEMENT, ASTM C150, TYPE 1.
- 9. AGGREGATE: DURABLE, WELL-GRADED MINERALS CONFORMING TO ASTM C33.
- 10. WATER SHALL BE CLEAN, POTABLE, AND FREE FROM DELETERIOUS MATERIALS. ADDITION OF WATER AT JOBSITE WILL NOT BE ALLOWED UNLESS SPECIFICALLY APPROVED
- 11. CONCRETE MIX: f'c = 4,000 PSI, SLUMP 2" TO 4", SEE SPECIFICATION FOR ANY ALTERNATE MIXES
- 12. ADMIXTURES SHALL CONFORM TO ASTM C494. USE AIR ENTRAINING ADMIXTURES CONFORMING TO ASTM C260 TO MAINTAIN AIR CONTENT RANGE 5%-7% FOR EXTERIOR CONCRETE.
- 13. GROUT SHALL BE NON-SHRINK, NON-METALLIC. CONCRETE CONTRACTOR TO PROVIDE AND INSTALL IN ACCORDANCE TO MANUFACTURER'S DIRECTIONS.
- 14. THOROUGHLY COMPACT AND VIBRATE CONCRETE INTO CORNERS AND AROUND REINFORCING AND EMBEDDED ITEMS. USE INTERNAL VIBRATION WHERE SIZE OF SECTION PERMITS.
- 15. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:
- CONCRETE CAST AGAINST, AND PERMANENTLY EXPOSED TO, EARTH. CONCRETE EXPOSED TO EARTH OR WEATHER CONCRETE NOT EXPOSED TO EARTH OR WEATHER, BEAM AND COLUMN BARS 1 1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER, SLAB AND WALLS 16. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
- 17. SAWCUT CONTROL JOINTS IN CONCRETE SLABS ON GRADE SHALL BE 1/8" WIDE AND 1/4 OF SLAB THICKNESS IN DEPTH. CUTTING OPERATIONS SHALL BE FROM 4 TO 12 HOURS AFTER PLACING CONCRETE. WHEN THE AIR TEMPERATURE IS LESS THAN 50 DEGREES, SAW CUT 12 HOURS AFTER PLACING CONCRETE. JOINTS TO BE ON COLUMN LINES AND MAXIMUM SPACING OF JOINTS SHALL BE 14'-0" UNLESS SHOWN OTHERWISE ON DRAWINGS.
- POST-INSTALLED MECHANICAL ANCHORS: HILTI KWIK BOLT TZ, ICC-ES ESR-1917 (CARBON STEEL AND ANSI 18. TYPE 304 STAINLESS STEEL).
- 19. POST-INSTALLED ADHESIVE ANCHORS: HILTI HAS THREADED RODS. INTERNALLY THREADED INSERTS, OR REBAR WITH HILTI RE 500 SD INJECTION ADHESIVE ANCHORING SYSTEM FOR ANCHORAGE TO CONCRETE, ICC-ES ESR-2322.
- MINIMUM LAP SPLICE AND DEVELOPMENT LENGTH IN INCHES SHOWN IN TABLE BELOW APPLY TO fc=4000 PSI 20. AND fy = 60,000 PSI. TOP BARS DEFINED AS HORIZONTAL REINFORCEMENT SUCH THAT 12" OF CONCRETE IS CAST BELOW THE SPLICE OR DEVELOPMENT LENGTH. LAP TOP BARS AT MID-SPAN. LAP BOTTOM BARS AT SUPPORTS.

BAR	SPLICE L	ENGTH	DEVELOPMEN	IT LENGTH
SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24	19	19	15
#4	32	25	25	19
#5	40	31	31	24
#6	48	37	37	29
#7	70	54	54	42
#8	80	62	62	48
#9	91	70	70	54
#10	102	79	79	61
#11	113	87	87	67

- - 6.

 - 9
 - 10.

3.

1.

<u>MASONRY</u>

3.

1. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C90. MASONRY UNIT COMPRESSIVE STRESS = 2000 PSI, MASONRY ASSEMBLAGE COMPRESSIVE STRESS f'm = 1500 PSI.

MORTAR SHALL CONFORM TO ASTM C270 TYPE S OR M, f'c = 2000 PSI.

GROUTING FOR REINFORCED MASONRY CELLS TO BE LOW LIFT WITH MAXIMUM GROUT HEIGHT = 4'-8" UNLESS SPECIFICALLY APPROVED.

ALL MASONRY WALLS SHALL BE REINFORCED HORIZONTALLY WITH HOT DIPPED GALVANIZED STEEL 9 GAGE LADDER TYPE JOINT REINFORCING AT 16" O.C. REINFORCE WALLS VERTICALLY AS SHOWN ON DRAWINGS WITH LAP SPLICES = 40 BAR DIAMETERS.

PROVIDE (1) - #5 VERTICAL BAR AT ALL CORNERS AND ENDS OF WALLS. PROVIDE (1) - #5 BAR ON EACH SIDE OF ALL OPENINGS. EXTEND BARS 2'-0" BEYOND OPENING.

PROVIDE CONTINUOUS BOND BEAM AT ALL BEARING LOCATIONS AND TOP OF WALL. PROVIDE 100% SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER JOISTS, UNLESS DETAILED OTHERWISE.

HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL UNITS. TOOL ALL JOINTS.

PROVIDE TEMPORARY SHORING NECESSARY FOR LATERAL SUPPORT OF ALL MASONRY WALLS.

PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS. REFER TO ALL DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS.

THE FABRICATOR SHALL SUPPLY LOOSE ANGLE LINTELS OVER ALL MASONRY OPENINGS AND RECESSES. LINTELS NOT SHOWN OR DETAILED ON DRAWINGS SHALL CONSIST OF A 3/8" BENT PLATE WITH 6" VERTICAL LEG AND HORIZONTAL LEG 1/2" LESS THAN EXTERIOR VENEER SURFACE TO SUBSTRATE WITH 8" END BEARING.

POST-INSTALLED MECHANICAL ANCHORS: HILTI KWIK BOLT TZ, ICC-ES ESR-3785 (CARBON STEEL AND ANSI TYPE 304 STAINLESS STEEL).

12. POST-INSTALLED ADHESIVE ANCHORS: HILTI HAS THREADED RODS, INTERNALLY THREADED INSERTS, OR REBAR WITH HILTI HIT-HY 70 INJECTION ADHESIVE ANCHORING SYSTEM FOR ANCHORAGE TO UNGROUTED CMU, ICC-ES ESR-2682.

13. POST-INSTALLED ADHESIVE ANCHORS: HILTI HAS THREADED RODS, INTERNALLY THREADED INSERTS, OR REBAR WITH HILTI HIT-HY 200 INJECTION ADHESIVE ANCHORING SYSTEM FOR ANCHORAGE TO GROUTED CMU, ICC-ES ESR-3963.

STRUCTURAL STEEL

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE "AISC" MANUAL OF STEEL CONSTRUCTION LATEST EDITIION, AND "AISC" CODE OF STANDARD PRACTICE, LATEST EDITION.

WIDE FLANGE AND WT SECTIONS: ASTM A992, GRADE 50, U.N.O. ALL OTHER SHAPES AND PLATES: ASTM A36 SQUARE AND RECTANGULAR TUBING: ASTM A500 GRADE B, FY=46 KSI. STRUCTURAL ROUND PIPE: ASTM A500 OR A53, GRADE B.

BOLTS FOR STRUCTURAL STEEL CONNECTIONS: 3/4" DIAMETER, ASTM A325, REGULAR HIGH STRENGTH BOLTS WITH HARDENED WASHERS. ALL HIGH STRENGTH BOLTS SHALL BE TORQUED PER ASTM A325, UNLESS DETAILED OTHERWISE

ANCHOR RODS: ASTM F1554 STEEL OR AS SPECIFIED, WITH EMBEDED NUT AND WASHER, LEVELING & TOP NUT WITH PLATE WASHERS.

WELDING TO BE PERFORMED BY WELDERS THAT ARE AWS CERTIFIED IN TYPE OF WELD CALLED FOR USING LOW HYDROGEN E70 ELECTRODES.

CONNECTIONS TO BE DESIGNED IN ACCORDANCE WITH "AISC" STANDARDS. CONNECTION DESIGN SHALL BE BY STEEL FABRICATOR UNLESS SPECIFICALLY DETAILED OTHERWISE. CONNECTIONS SHALL SUPPORT A MINIMUM OF ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY CALCULATED FROM THE TABLES FOR ALLOWABLE UNIFORM LOADS FOR BEAMS IN THE AISC "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION. 8. ALL OPEN ENDS OF TUBE SECTIONS SHALL BE SUPPLIED WITH A 1/4" SEAL WELDED END PLATE.

SUBMIT DETAILED FABRICATION AND ERECTION DRAWINGS FOR ALL WORK. SHOP DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.

INTERIOR STRUCTURAL STEEL THAT IS NOT EXPOSED TO VIEW WILL REQUIRE NO PRIMER OR PAINT. EXPOSED STRUCTURAL STEEL TO BE PAINTED PER PAINT SYSTEM SHOWN IN SPECIFICATIONS, SURFACES SHALL BE CLEANED IN ACCORDANCE WITH SSPC RATING PER PAINT MANUFACTURER'S RECOMMENDATIONS.

11. ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND LINTELS TO BE GALVANIZED.

METAL BUILDING

THE E	BUILDING SHALL BE DESI	GNED FOR THE FOLLOWNING MINIIMUM DEFLECTION REQUIREMETS:	
Α.	RRAME RAFTERS	L/240	
Β.	FRAME SIDESWAY	H/120	
C.	PURLINS	L/240	
D.	GIRTS	L/120	
E.	ENDWALL POSTS	L/180	
F.	ROOF PANEL	L/150	
G.	WALL PANEL	L/120.	

SPECIAL INSPECTIONS

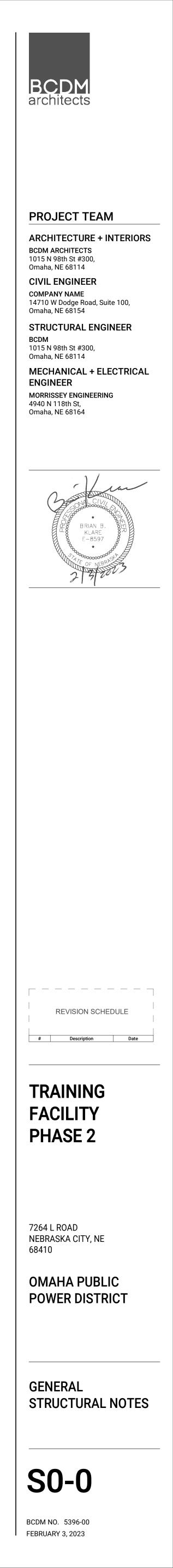
CONTRACTOR TO COORDINATE SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 2012 SECTION 1705. AS NOTED BELOW, SPECIAL INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER AND APPROVED BY THE BUILDING OFFICIAL AND ARCHITECT & ENGINEER OF RECORD.

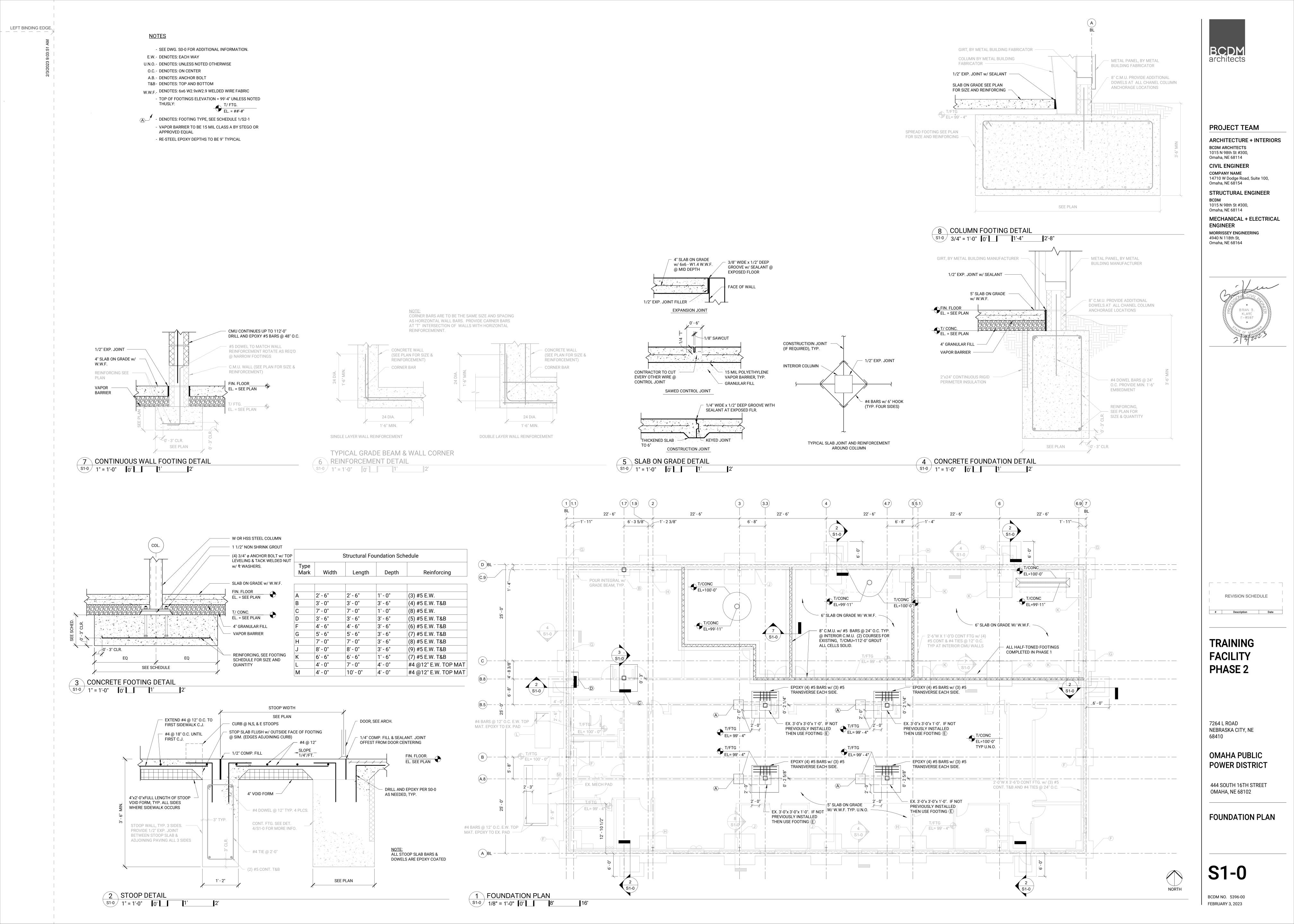
SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE w/ DESIGN DRAWINGS & SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. UNCORRECTED DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT & ENGINEER OF RECORD.

MONTHLY INSPECTION REPORTS SHALL BE PROVIDED TO BUILDING OFFICIAL AND ARCHITECT & ENGINEER OF RECORD.

4. SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING: STRUCTURAL STEEL PER SECTION 1705.2 AND AISC 360

- STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL PER TABLE 1705.2.2. WELDING OF STRUCTRUAL STEEL PER SECTION 1705.2, AISC 360, AND AWS D1.1. WELDING OF COLD
- FORMED STEEL FLOOR AND ROOF DECK PER TABLE 1705.2.2 AND AWS D1.3. CONCRETE CONSTRUCTION PER SECTION 1705.3 AND TABLE 1705.3. EXCEPTIONS 1 AND 2 NOT
- ALLOWED. STRUCTURAL MASONRY PER SECTION 1705.4, TMS 402/ACI 530/ASCE 5, AND TMS 602/ACU 530.1/ASCE
- SOIL EXCAVATIONS AND FILLING PER SECTION 1705.6 AND GEOTECHNICAL REPORT. POST INSTALLED EXPANSION AND ADHESIVE ANCHOR INSTALLATION IN ACCORDANCE WITH ICBO REPORTS NOTED THIS SHEET.





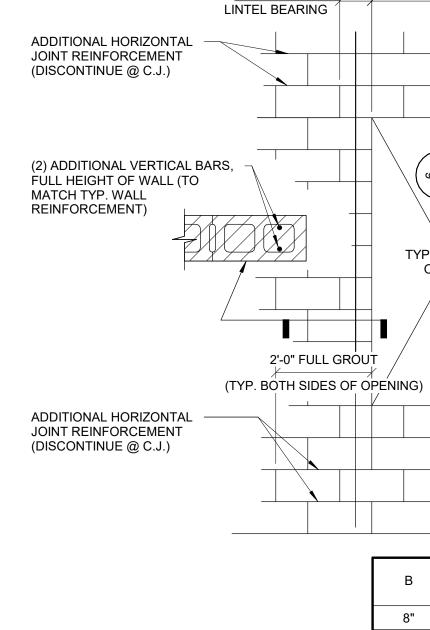


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- VERTICAL REINF. PLAN / (SEE PLAN, TYP.) - HORIZONTAL JOINT REINFORCEMENT BOND BEAM (SEE SCHEDULE) <u>TYPE 1</u> LINTEL SCHEDULE BOND BEAM REINF. DEPTH LINTEL # TYPE -(2) #5 8" L-1 1 L-2
 6
 LINTEL SCHEDULE & DETAIL

 \$1-2
 1" = 1'-0"
 0'
 1'
 2'

SEE

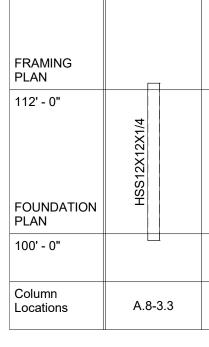


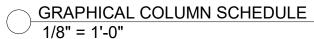
MINIMUM

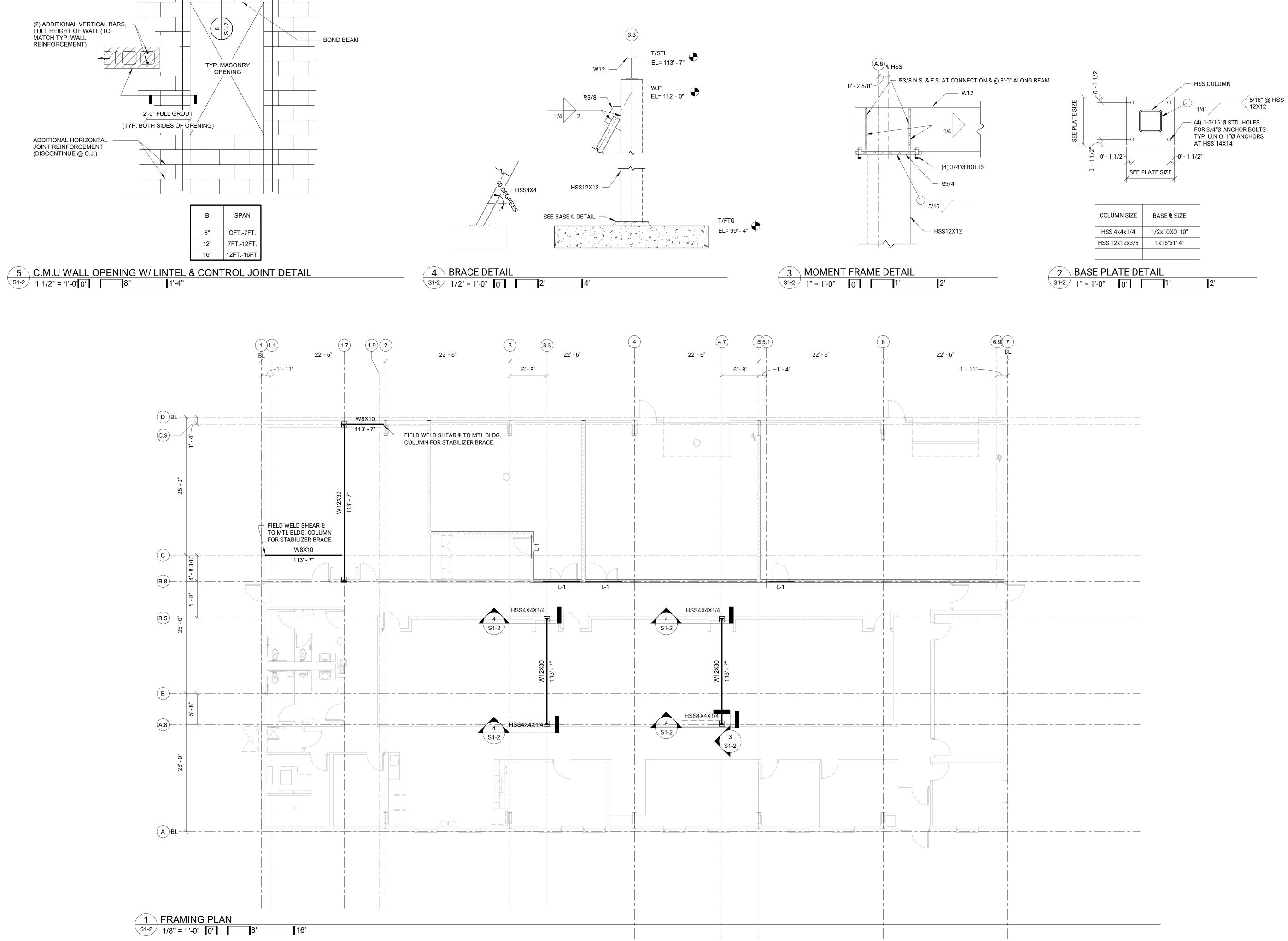
SPAN

VERTICAL CONTROL JOINT





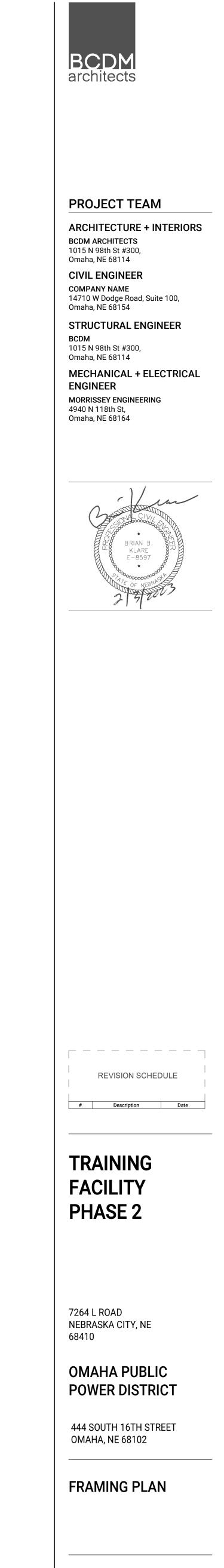




<u>NOTES</u>

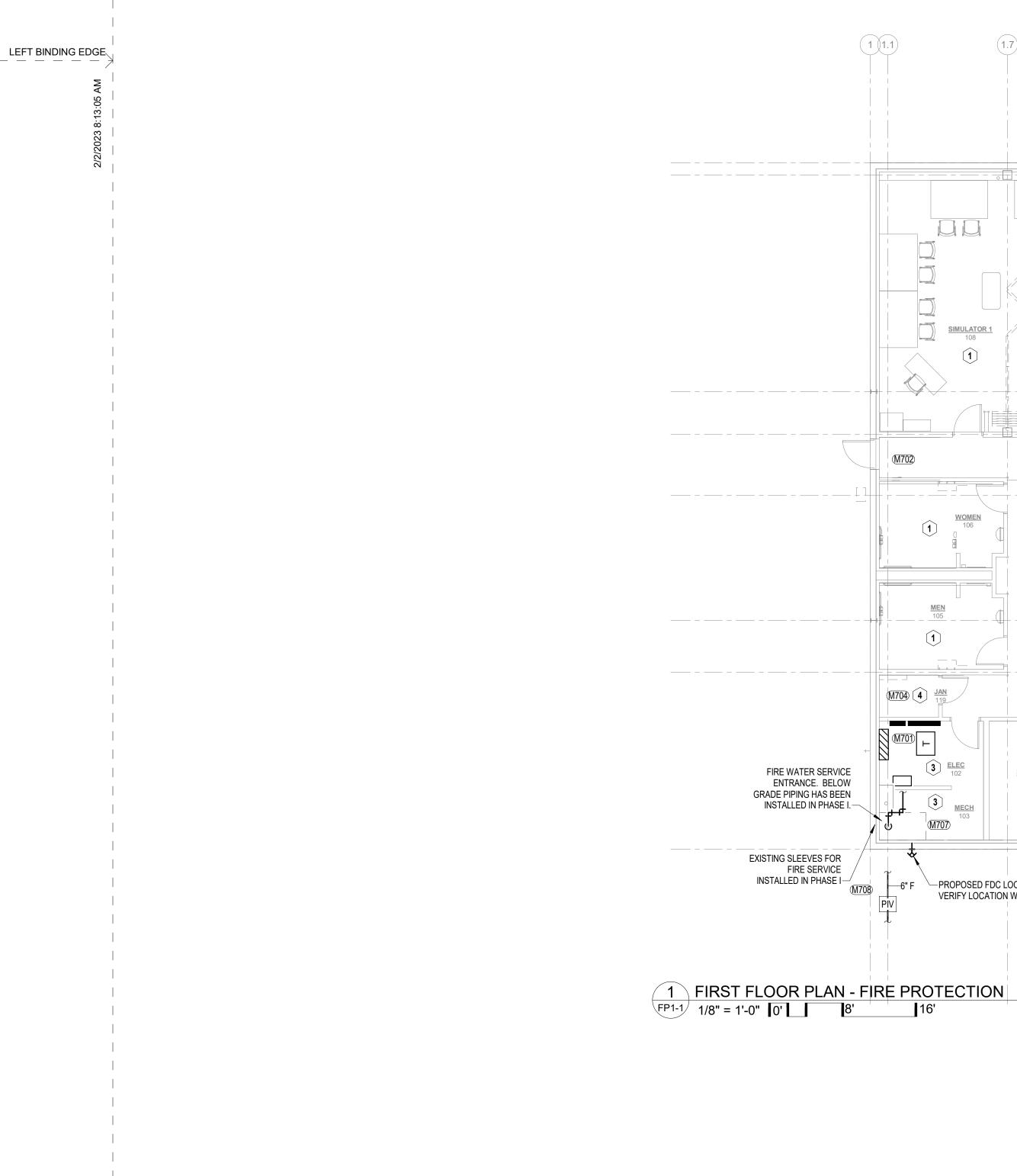
- SEE DWG. S0-0 FOR ADDITIONAL INFORMATION. U.N.O. - DENOTES: UNLESS NOTED OTHERWISE
- W.P. DENOTES: WORKING POINT
- O.C.- DENOTES: ON CENTER
- DENOTES: MOMENT CONNECTION
- □— DENOTES: BEAM FRAMING INTO COLUMN
- ---- DENOTES: BEAM OVER COLUMN W 8x13 113'-7" - DENOTES: T/ STL. ELEVATION. IF ONLY (1) IS SHOWN, T/ STL.
 - ELEVATION SAME AT BOTH ENDS
 - T/STL ELEVATION = 113'-7" U.N.O. - MECHANICAL UNITS HANGING FROM METAL BUILDING STRUCTURE TO BE DISTRIBUTED AMONG 2 PURLINS MINIMUM. NO MORE THAN ONE UNIT MAY ATTACH TO ANY INDIVIDUAL PURLIN.
 - HANGING CONNECTIONS TO PURLINS PER METAL BUILDING SYSTEMS MANUAL APPENDIX A6, FIGURE A6.1(a) AND FIGURE A6.1(e). USE L2 1/2x2 1/2x1/4 CLIP ANGLES AND L3X3X1/4 CROSS MEMBER w/ 1/2"Ø BOLTS IN A6.1(e)

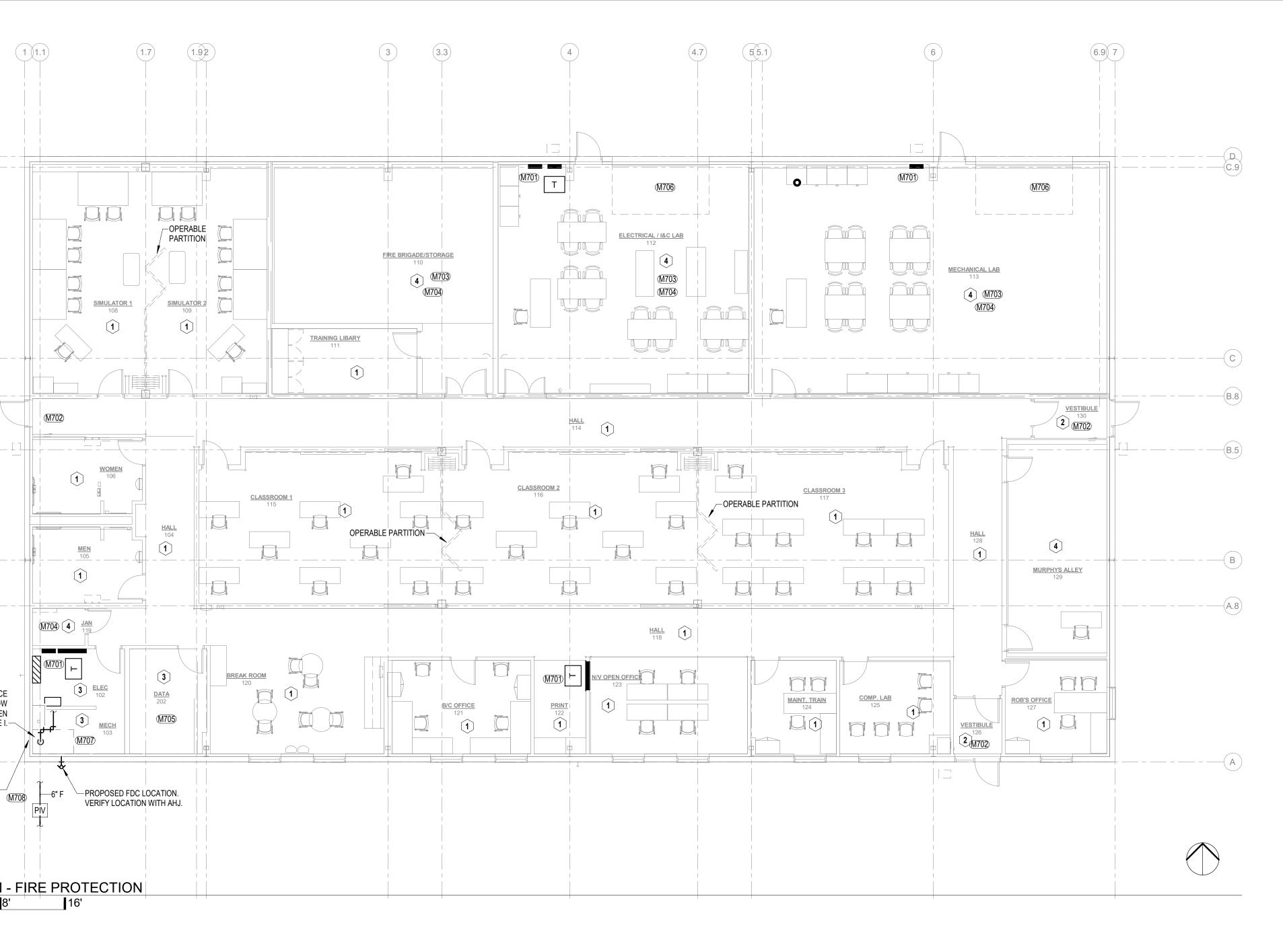
					FRAMING PLAN
HSS12X12X3/8	HSS12X12X3/8	HSS12X12X3/8	HSS12X12X3/8	HSS12X12X3/8	112' - 0" FOUNDATION PLAN
					100' - 0"
A.8-4.7	B.5-3.3	B.5-4.7	B.8-1.7	C.9-1.7	
	1	1	1	1	





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FIRE SPRINKLER GENERAL NOTES

- 1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2. COORDINATE ALL WALL AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT. FIRE CAULK AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS WITH AN APPROVED FIRE STOPPING MATERIAL.
- 3. COORDINATE FIRE SPRINKLER PIPE ROUTING AND FIRE SPRINKLER HEAD LOCATIONS WITH DIFFUSERS, REGISTERS, AND GRILLES, FIRE ALARM DETECTORS, LIGHTS AND CEILING PLANS.
- 4. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS.
- 5. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID CONFLICTS.
- 6. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT
- TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE. 7. ROUTE ALL PIPING IN BAR JOISTS, ABOVE CEILINGS, IN CHASES AND IN WALLS AS REQUIRED TO
- CONCEAL PIPING. 8. COORDINATE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTWORK, OR CEILING SYSTEMS CANNOT BE INSTALLED DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- LOCATE ALL FIRE SPRINKLER HEADS CENTERED IN CEILING TILES. QUARTER POINTS IN 2'x4' WILL BE ACCEPTABLE.

PLAN TAG	CEILING TYPE	HEAD TYPE	HEAD COLOR
1	LAY-IN ACCOUSTICAL TILE	FLAT PLATE CONCEALED	WHITE
2	GYP. BOARD	FLAT PLATE CONCEALED	WHITE
3	EXPOSED STRUCTURE	UPRIGHT	BRASS
4	EXPOSED STRUCTURE	UPRIGHT	BRASS (WITH CAGES)

1. THIS PLAN IS FOR COORDINATION PURPOSES ONLY. REFER TO ARCHITECTURAL CEILING PLANS FOR SPECIFIC CEILING TYPES AND POTENTIAL OBSTRUCTIONS. PROVIDE ALL HEADS AS REQUIRED FOR DESIGN INTENT AND AN NFPA 13 COMPLIANT SYSTEM. SEE ADDITIONAL FIRE PROTECTION NOTES FOR ADDITIONAL INFORMATION.

KEYNOTES

- M701 DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS / EQUIPMENT. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- M702 PROVIDE DRY-TYPE FIRE SPRINKLER(S) HEADS. DO NOT LOCATE WATER-FILLED PIPING IN AREAS PRONE TO FREEZING.
- M703 PAINT PIPING EXPOSED TO VIEW IN OCCUPIED SPACES TO MATCH
- STRUCTURE / CEILING. COLOR SELECTED BY ARCHITECT. M704 PROVIDE HEAD CAGES ON FIRE SPRINKLER HEADS PROTECTING THIS ROOM.
- M705 DO NOT ROUTE PIPING IN DATA ROOM THAT DOES NOT DIRECTLY SERVE DATA ROOM. DO NOT ROUTE WATER FILLED PIPING OVER DATA ROOM.
- M706 PROVIDE PROTECTION ABOVE AND BELOW OVERHEAD DOOR AS REQUIRED BY NFPA. PROVIDE HEAD CAGES FOR HEAD LOCATED BELOW DOOR.
- M707 PROVIDE FIRE SERVICE ENTRANCE WITH DOUBLE CHECK BACK-FLOW PREVENTER, ISOLATION VALVES, FLOW SWITCH, ETC. AS REQUIRED BY NFPA 13, STATE FIRE MARSHALL, AND LOCAL CODES.
- M708 FIRE SPRINKLER POST INDICATOR VALVE PER NFPA 13 AND AUTHORITY HAVING JURISDICTION REQUIREMENTS. LOCATE A MINIMUM OF 40'-0" FROM BUILDING (SEE CIVIL).

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4940 North 118th Street Omaha, NE 68164 P: 402.491.4144	note: do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. Iay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades
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PROJECT TEAM

ARCHITECTURE + INTERIORS BCDM ARCHITECTS 1015 N 98th St #300, Omaha, NE 68114 **CIVIL ENGINEER** LAMP RYNEARSON 14710 W. Dodge Road, Suite 100 Omaha, NE 68114 STRUCTURAL ENGINEER BCDM 1015 N 98th St #300, Omaha, NE 68114 MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164 Fundreus X ANDREW L. GILLIAM E-16619 02/03/2023

Description Date



7264 L ROAD, NEBRASKA CITY, NE 68410

OMAHA PUBLIC POWER DISTRICT

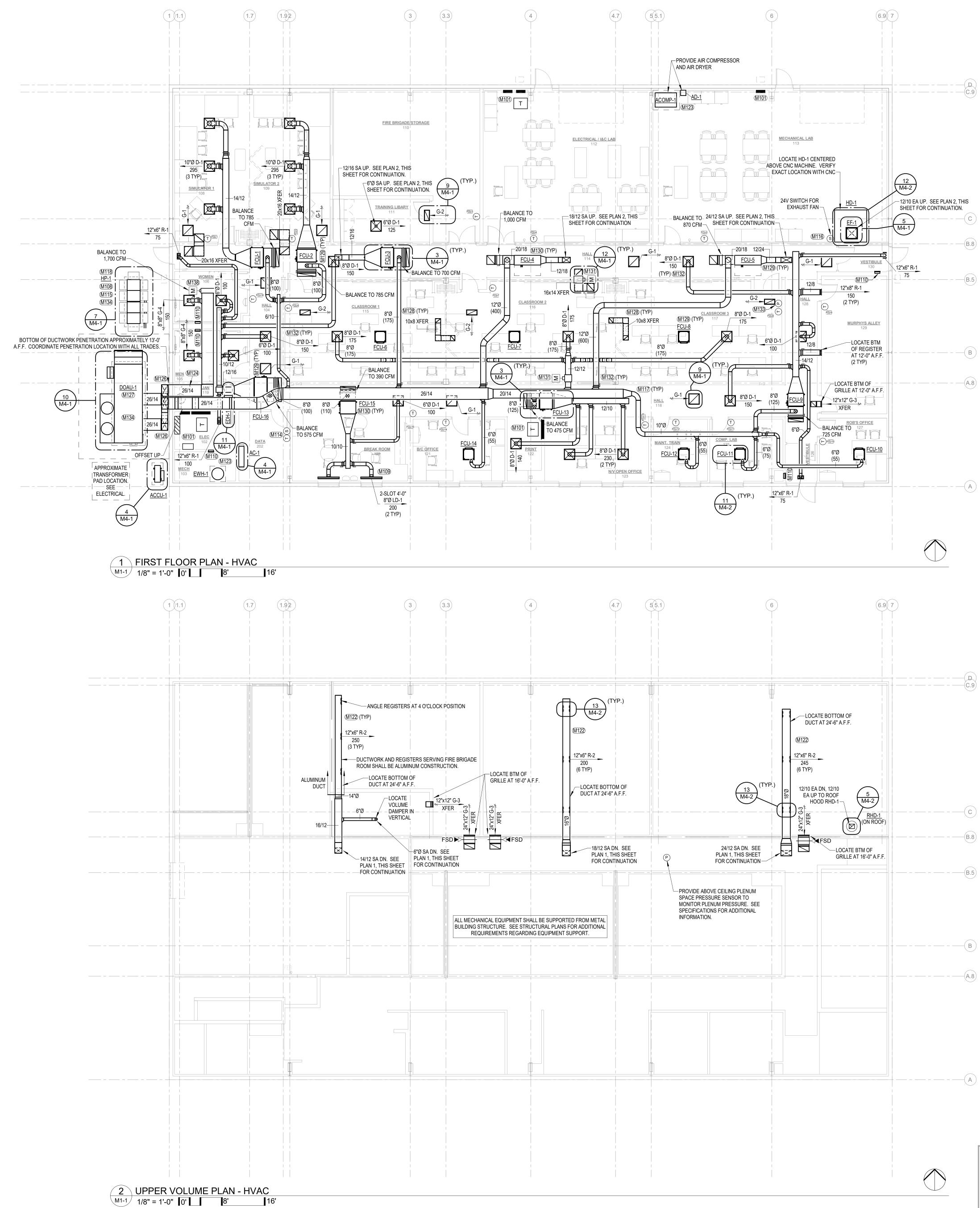
444 SOUTH 16TH STREET OMAHA, NE 68102

FLOOR PLAN - FIRE PROTECTION











HVAC GENERAL NOTES

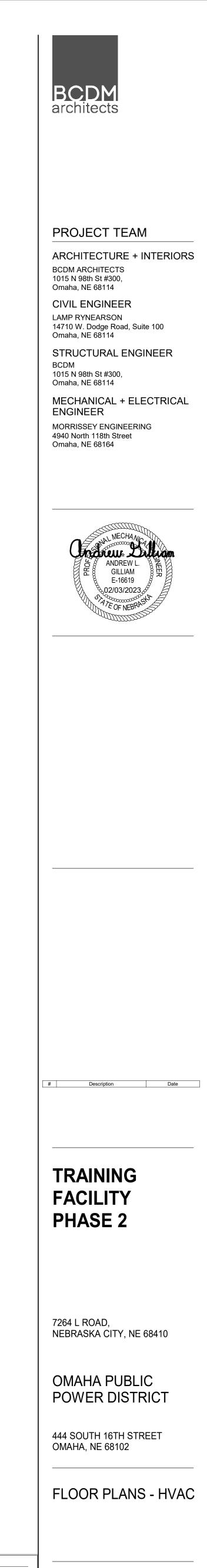
- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES. 2. FIRE CAULK ALL DUCTWORK PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES.
- ALL PENETRATIONS OF FIRE RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION. CAULK AROUND ALL DUCTWORK PENETRATIONS THROUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION.
- 3. COORDINATE DUCT ROUTING WITH ALL OTHER TRADES. OFFSET AND EXTEND DUCTWORK AS REQUIRED TO AVOID CONFLICTS.
- 4. CENTER DIFFUSERS, REGISTERS, AND GRILLES IN CEILING TILES WHERE 24x24 OR 24x12 CEILING DEVICES ARE NOT USED.
- 5. ROUND RUN-OUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE NECK UNLESS OTHERWISE NOTED. SEE DIFFUSER CONNECTION DETAIL 2 ON SHEET M4-1.
- 6. PROVIDE RETURN AIR BOOT AT EACH G-1 AND G-2 RETURN AIR GRILLES. SEE DETAIL 9 SHEET
- 7. LOCATE FIRE DAMPERS, VOLUME DAMPERS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE CEILING ACCESS PANELS AS REQUIRED IN GYP. BOARD CEILINGS TO SERVE DAMPERS. LOCATE DAMPERS ABOVE ACCESSIBLE LAY-IN TILE CEILINGS WHERE POSSIBLE. COORDINATE ALL LOCATIONS WITH REFLECTED CEILING PLANS, GENERAL CONTRACTOR AND ARCHITECT. MAINTAIN ACCESSIBILITY TO ALL DAMPERS.
- 8. CONTRACTOR TO PROVIDE ALL LOW VOLTAGE AND LINE VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE OPERATION OF ALL MECHANICAL EQUIPMENT.
- 9. PROVIDE VOLUME DAMPER IN EACH SUPPLY AIR BRANCH OFF OF MAIN DUCTWORK AS INDICATED ON PLAN.
- 10. SEE DUCT FITTING DETAILS 1, SHEET M4-1.
- 11. THERMOSTAT AND SENSOR ROUGH-INS BY ELECTRICAL CONTRACTOR.

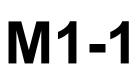
KEYNOTES

M101	DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS, MAINTAIN ALL NEC REQUIRED CLEARANCES.
M108	PROVIDE 18" TALL SUPPORT STAND (MITSUBISHI SUPERSTAND OR EQUAL) TO SUPPORT HEAT PUMP. BOLT STANDS DOWN TO CONCRETE BELOW. COORDINATE EXACT LOCATION WITH ALL TRADES. SEE DETAIL 7, SHEET M4-1.
M109	CENTER LINEAR DIFFUSER WITH BUILDING FEATURES.
M110	ELECTRIC HEATER BY ELECTRICAL CONTRACTOR. UNIT CONTROLLED BY INTEGRAL THERMOSTAT. SEE ELECTRICAL DRAWINGS.
M114	PROVIDE MANUFACTURERS HARD WIRED THERMOSTAT AND SPACE TEMPERATURE SENSOR CONNECTED TO BAS.
M115	MAINTAIN MANUFACTURERS RECOMMENDED AIRFLOW AND MAINTENANCE CLEARANCES AROUND VRF HEAT PUMP UNIT.
M116	LOW VOLTAGE WALL SWITCH PROVIDED BY TEMPERATURE CONTROL CONTRACTOR TO ACTIVATE EF-1 AND OPEN MOTORIZED DAMPERS.
M117	LOCATE ALL MECHANICAL EQUIPEMNT REQUIRING MAINTENANCE AT A MAXIMUM OF 3'-0" ABOVE CEILING AND DUCT ACCESSORIES REQUIRING CENTER LINE BALANCING AT A MAXIMUM 5'-0" ABOVE CEILING
M118	PROVIDE QUICK-DETACHABLE MAGNETIC FILTER SCREENS TO COVER ALL HEAT PUMP CONDENSER OPENINGS. CONFIRM SIZES AND QUANTITIES WITH ACTUAL EQUIPMENT PROVIDED. INTENT IS FOR SCREENS TO BE PLACED ON OPENINGS DURING DIRTY SITE OPERATION FOR REDUCED CONDENSER CLEANING.
M122	PROVIDE PAINT GRIP FINISH ON DUCTWORK EXPOSED TO VIEW.
M123	PROVIDE EQUIPMENT PAD TO EXTEND 4" BEYOND FOOTPRINT OF EQUIPMENT. VERIFY EXACT SIZE AND LOCATION.
M124	PROPOSED TEMPERATURE CONTROL PANEL LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR.
M126	EXTERIOR DUCTWORK SHALL INCLUDE 1-1/2" DUCT LINER AND 1-1/2" MINERAL FIBER BOARD COVERED WITH AN ALUMNAGUARD (OR EQUAL) WEATHERPROOF MEMBRANE. WATERPROOF MEMBRANE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AROUND ENTIREITY OF DUCTWORK AND SHED WATER. ANY PONDING OR STANDING WATER WILL BE UNACCEPTABLE.
M127	GRADE MOUNTED DEDICATED OUTDOOR AIR UNIT LOCATED ON EXTERIOR EQUIPMENT PAD. SEE STRUCTURAL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
M128	ROUTE DUCTWORK OVER TOP OF CLASSROOM LID. MINIMIZE PENETRATIONS THROUGH CLASSROOM POD LID.
M129	FANCOIL UNIT SHALL BE SUPPORTED BY UNITSTRUT WITH ALL-THREAD RODS. PROVIDE ANTI-SWAY ANGLE IRON KICKER BRACING TO PREVENT EQUIPMENT MOVEMENT. SEE STRUCTURAL PLANS FOR ADDITIONAL SUPPORT INFORMATION.
M130	MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND FANCOIL UNIT.
M131	PROVIDE 24V SMOKE DAMPER AT AMMONIA DETECTION SHELTER PENETRATION. DAMPER SHALL BE POWER OPEN, FAIL CLOSED.
M132	FIRE CAULK AROUND ALL DUCTWORK AND PIPING PENETRATIONS OF AMMONIA DETECTION SHELTER. ANY PENETRATION THRU SHELL OF SHELTER SHALL BE SEALED AIRTIGHT. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS. PIPING PENETRATION LOCATIONS NOT INDICATED.
M133	PROVIDE 24V PUSH BUTTON EMERGENCY ACTIVATION SHELTER-IN PLACE SYSTEM WITHIN LOCAKABLE METAL ENCLOSURE WITH BREAKABLE GLASS FRONT PANE. ROUGH-IN BY ELECTRICAL CONTRACTOR. BUTTON SHALL HAVE ENGRAVED PLAQUE MOUNTED ABOVE BUTTON STATING 'PUSH FOR OUTDOOR AMMONIA SPILL ONLY'. SEE SPECIFICATIONS FOR CONTROL REQUIREMENTS.
M134	PROVIDE QUICK-DETACHABLE MAGNETIC FILTER SCREENS TO COVER ALL DEDICATED OUTDOOR AIR UNIT AND VRF HEAT PUMP CONDENSER COILS. CONFIRM SIZES AND QUANTITIES WITH ACTUAL EQUIPMENT PROVIDED. INTENT IS FOR SCREENS TO BE PLACED ON OPENINGS DURING DIRTY SITE OPERATION FOR REDUCED CONDENSER CLEANING AND EASILY REMOVED FOR NORMAL OPERATION.

M138 BALANCE MOTORIZED DAMPER TO 1,700 CFM IN NORMAL OPERATION. DAMPER SHALL MODULATE TO MAINTAIN BUILDING PLENUM PRESSURE. SEE SPECFICIATIONS FOR ADDITIONAL INFORMATION.

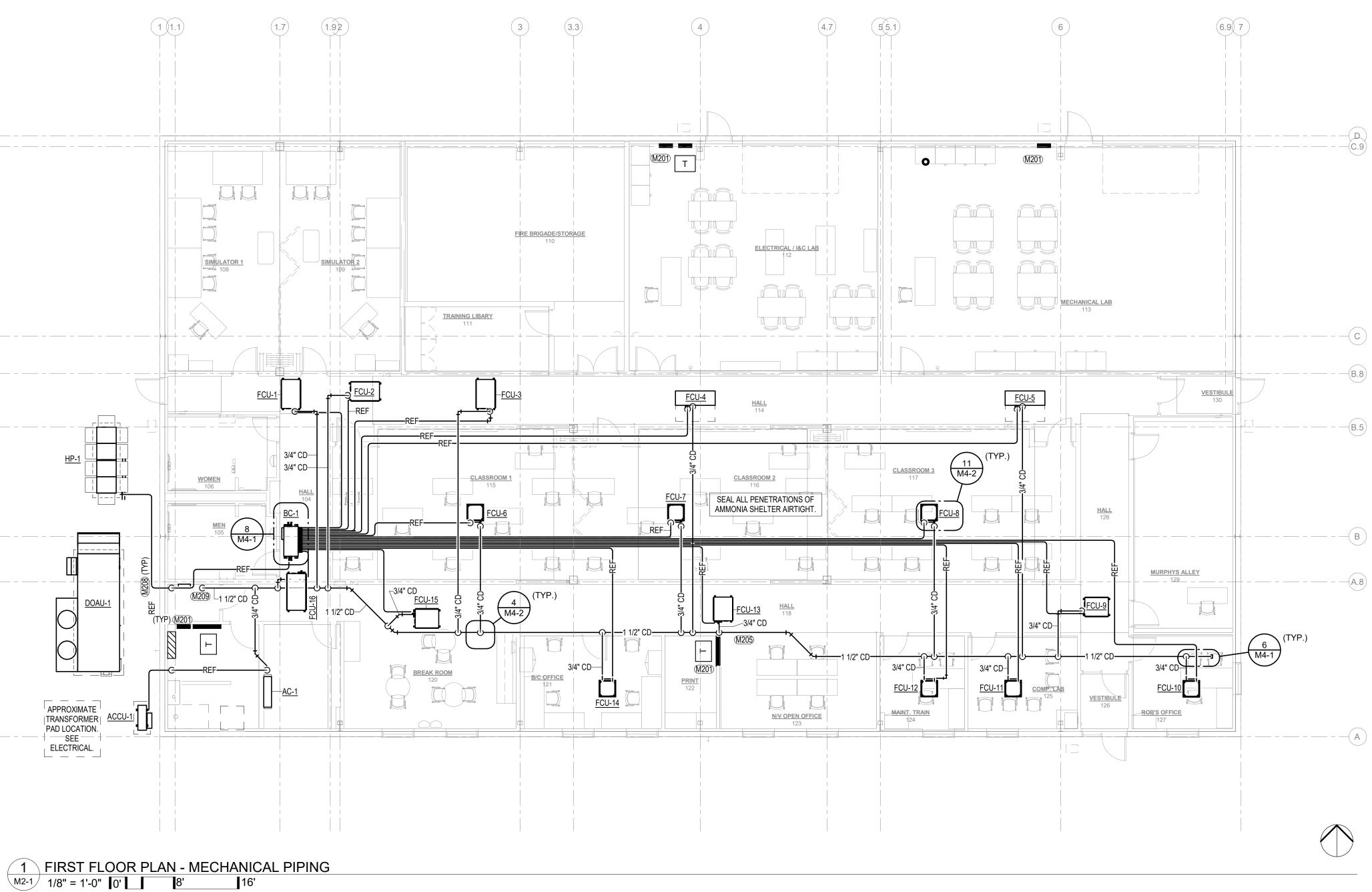
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LEFT BINDING EDGE

DOAU-1 APPROXIMATE TRANSFORMER ACCU-1 PAD LOCATION. — + — SEE — + ELECTRICAL.



MECHANICAL PIPING GENERAL NOTES

- 1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2. COORDINATE PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- 3. INSTALL ALL ISOLATION VALVES AND BALANCING VALVES IN ACCESSIBLE LOCATIONS.
- 4. ALL PIPING SHOWN FOR CLARITY. ROUTE CONDENSATE AND REFRIGERANT PIPING CONCEALED IN CHASES, IN WALLS OR ABOVE CEILINGS AS REQUIRED.
- 5. PROVIDE REFRIGERANT PIPING FOR VRF SYSTEM AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE REFRIGERANT PIPING AND ALL REFRIGERANT SPECIALITIES REQUIRED PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE OPERATION SYSTEM.
- 6. SEAL ALL REFRIGERANT PIPING HOLES IN MEZZANINES AND SPACES. MAINTAINTAIN FIRE RATINGS. ALL PENETRATIONS OF FIRE RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
- 7. SEE PIPING INSULATION DETAIL 6, SHEET M4-2.

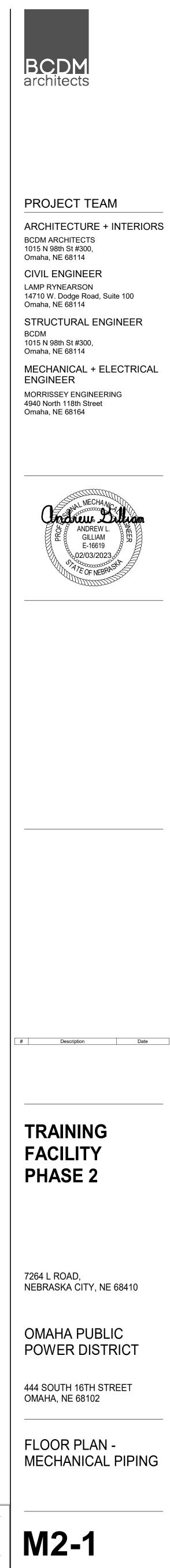
APPROXIMATELY 30" ABOVE CEILING.

KEYNOTES

- M201 DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS, MAINTAIN ALL NEC REQUIRED CLEARANCES.
- M205 CONDENSATE MAIN PIPING INTENDED TO BE PUMPED UP TO GRAVITY CONDENSATE MAIN. MAINTAIN 1/8" PER FOOT REQUIRED SLOPE ON GRAVITY PIPING.
- M208 SUPPORT REFRIGERANT PIPING OFF OF THE GROUND UTILIZING PRE-MANUFACTURED PIPE SUPPORTS (PIPE PIER ELITE OR APPROVED EQUAL) SPACED AT 5'-0" MAXIMUM AND AT EACH TURN IN DIRECTION. DISCHARGE CONDENSATE TO MOP SINK. MAINTAIN CODE REQUIRED AIR GAP ABOVE FLOOD PLANE OF FIXTURE. SLOPE GRAVITY CONDENSATE A MINIMUM M209 OF 1/8" PER FOOT. SLOPE TOWARDS DISCHARGE END, ROUTE

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LEFT BINDING EDGE

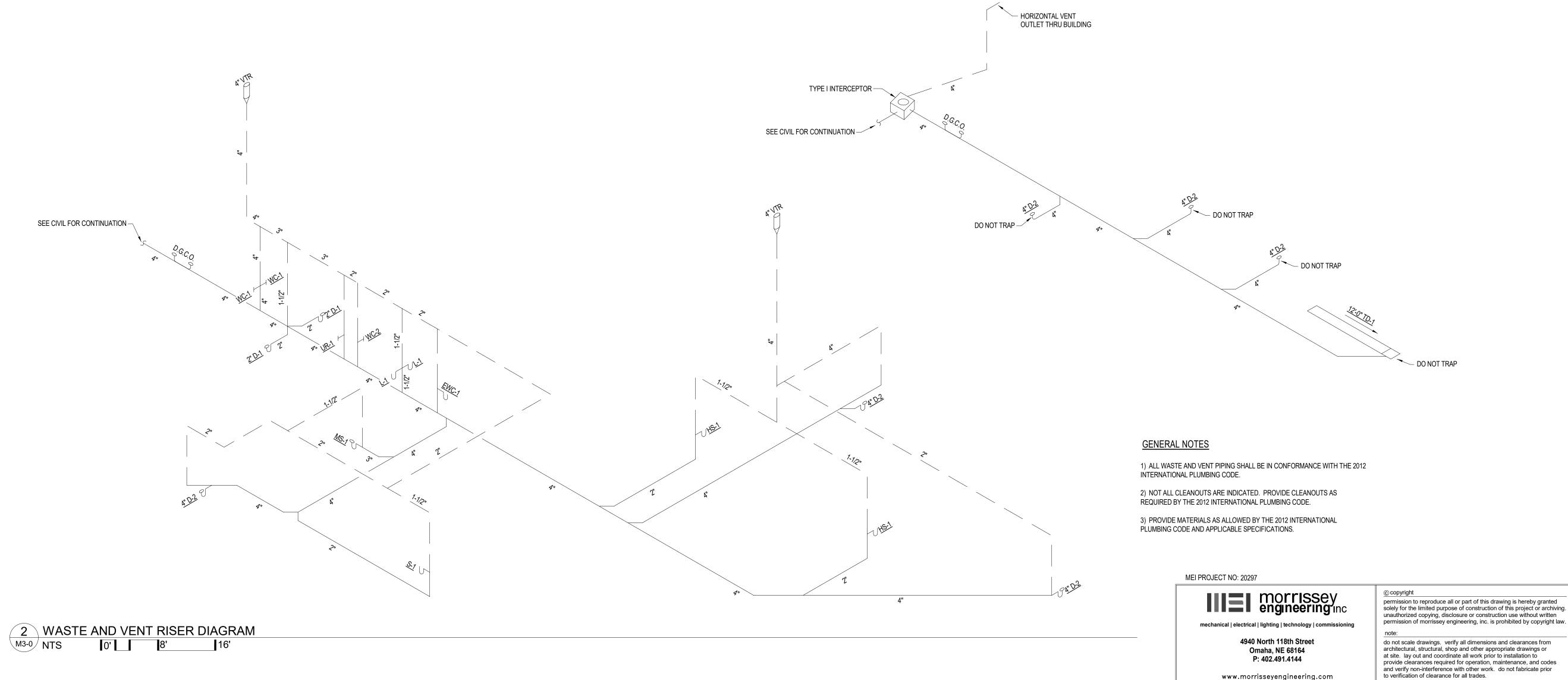
9 M4-2

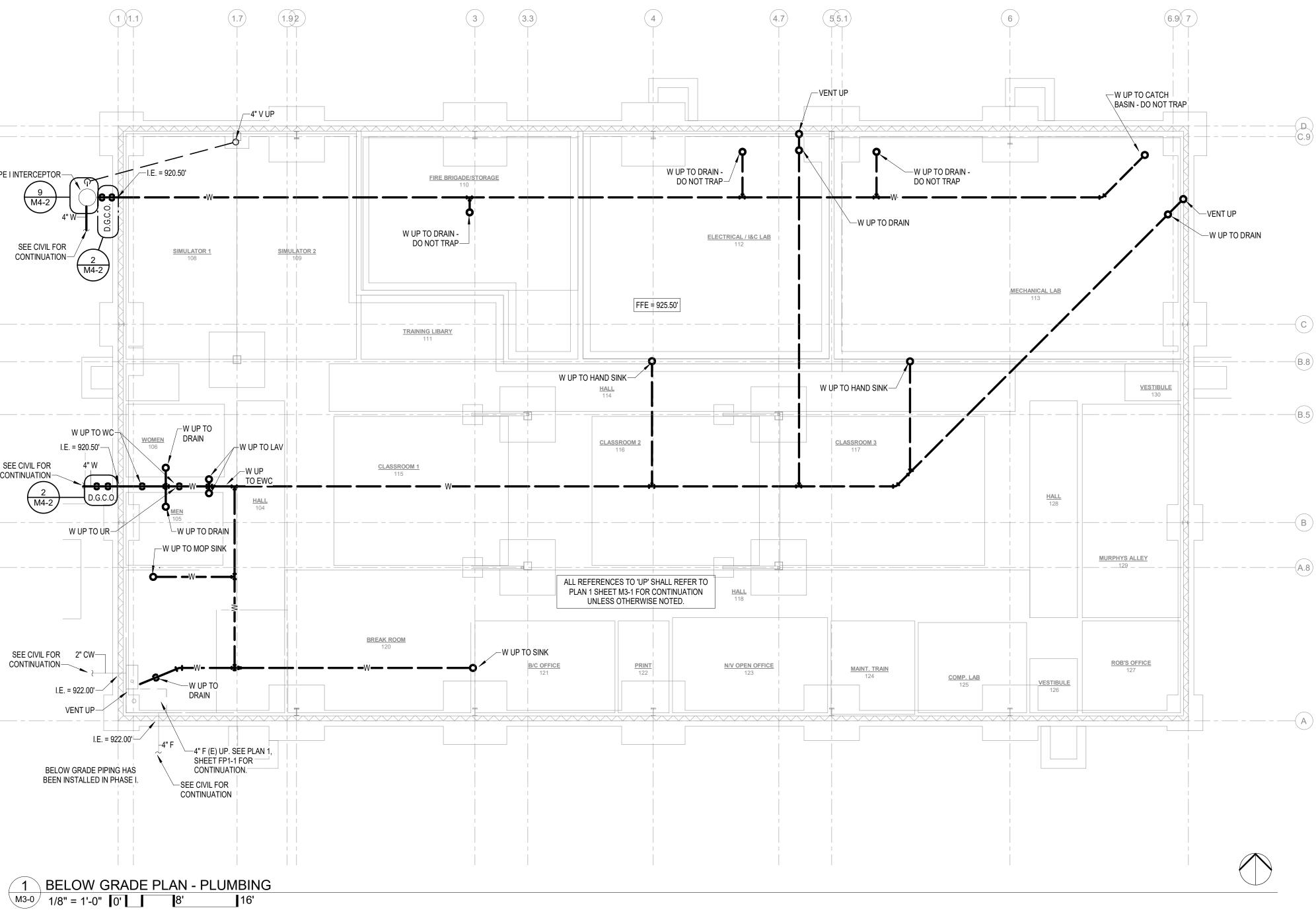
TYPE I INTERCEPTOR-

SEE CIVIL FOR

SEE CIVIL FOR $\left(\frac{2}{M4-2}\right)$

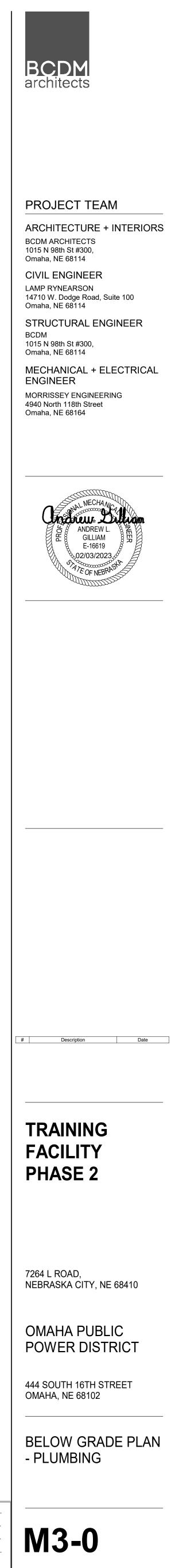
SEE CIVIL FOR 2" CW-CONTINUATION —





UNDERGROUND PLUMBING GENERAL NOTES

- 1. HOLES CUT IN FLOORS TO PERMIT THE INSTALLATION OF PIPING SHALL BE CAREFULLY MADE AND RESTRICTED TO THE SMALLEST PRACTICAL SIZE. C.9 2. PIPE ROUTING IS SHOWN FOR CLARITY AND GENERAL ROUTING INFORMATION. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH ALL TRADES. OFFSET AND TRANSITION PIPING AS
- REQUIRED TO AVOID CONFLICTS. 3. REFER TO WASTE AND VENT RISER DIAGRAM FOR COMPLETE WASTE AND VENT SIZES ON THIS
- SHEET. 4. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTINGS. PROVIDE SLEEVES AS REQUIRED.



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V UP TO VTR

+____ M3-1 —(B.5) M4-2 <u>EWH-2</u>-WATER SERVICE ENTRANCE (M4-2/ ____2" CW__<u>L-1</u>___2" CW__ <u>_____</u>1 1/2" CW___ —(В VENT DN-
 3
 ENLARGED RESTROOMS - PLUMBING PLAN

 M3-1
 1/4" = 1'-0"
 0'
 4'
 8'
 1 FIRST FLOOR PLAN - PLUMBING

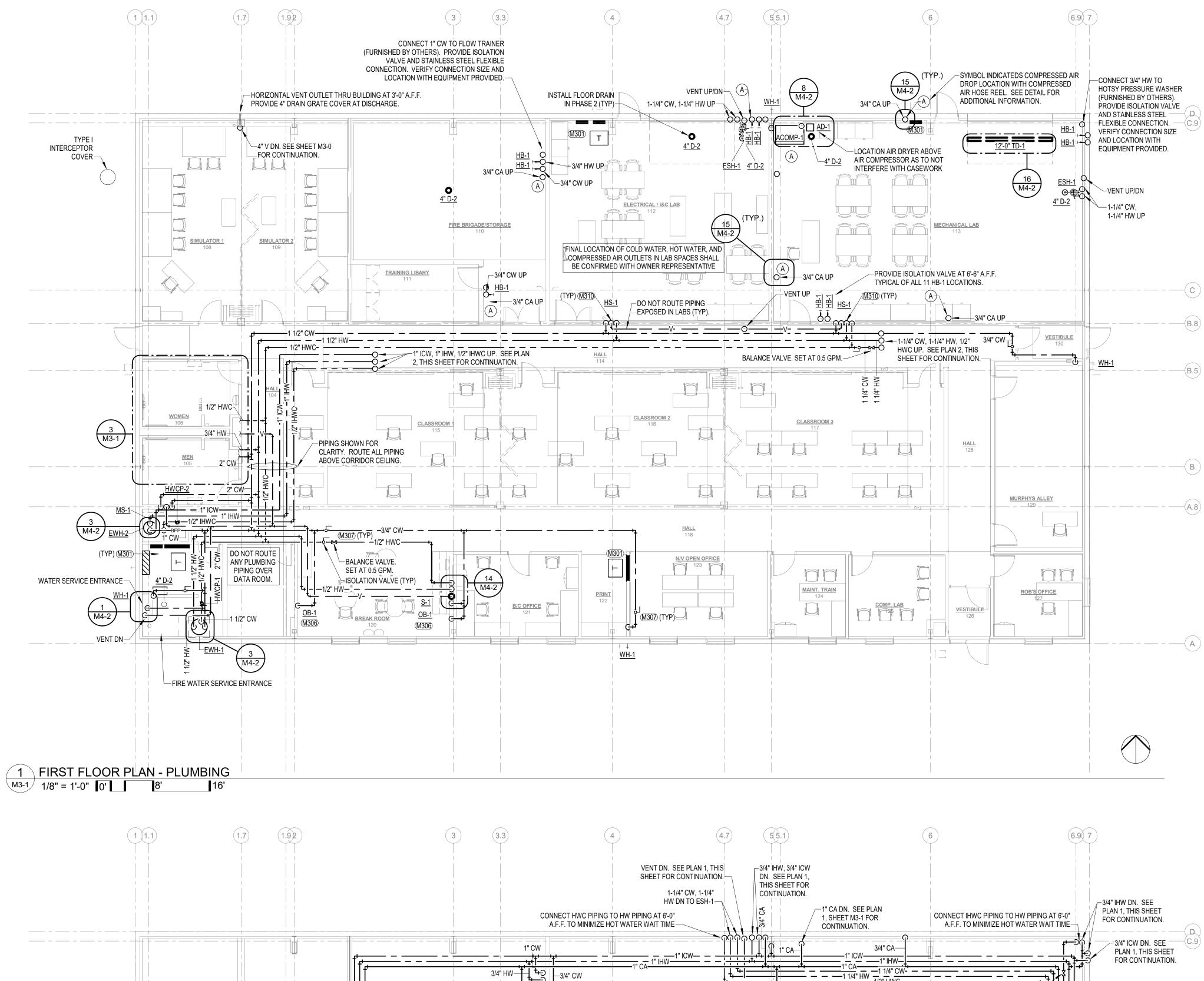
LEFT BINDING EDGE

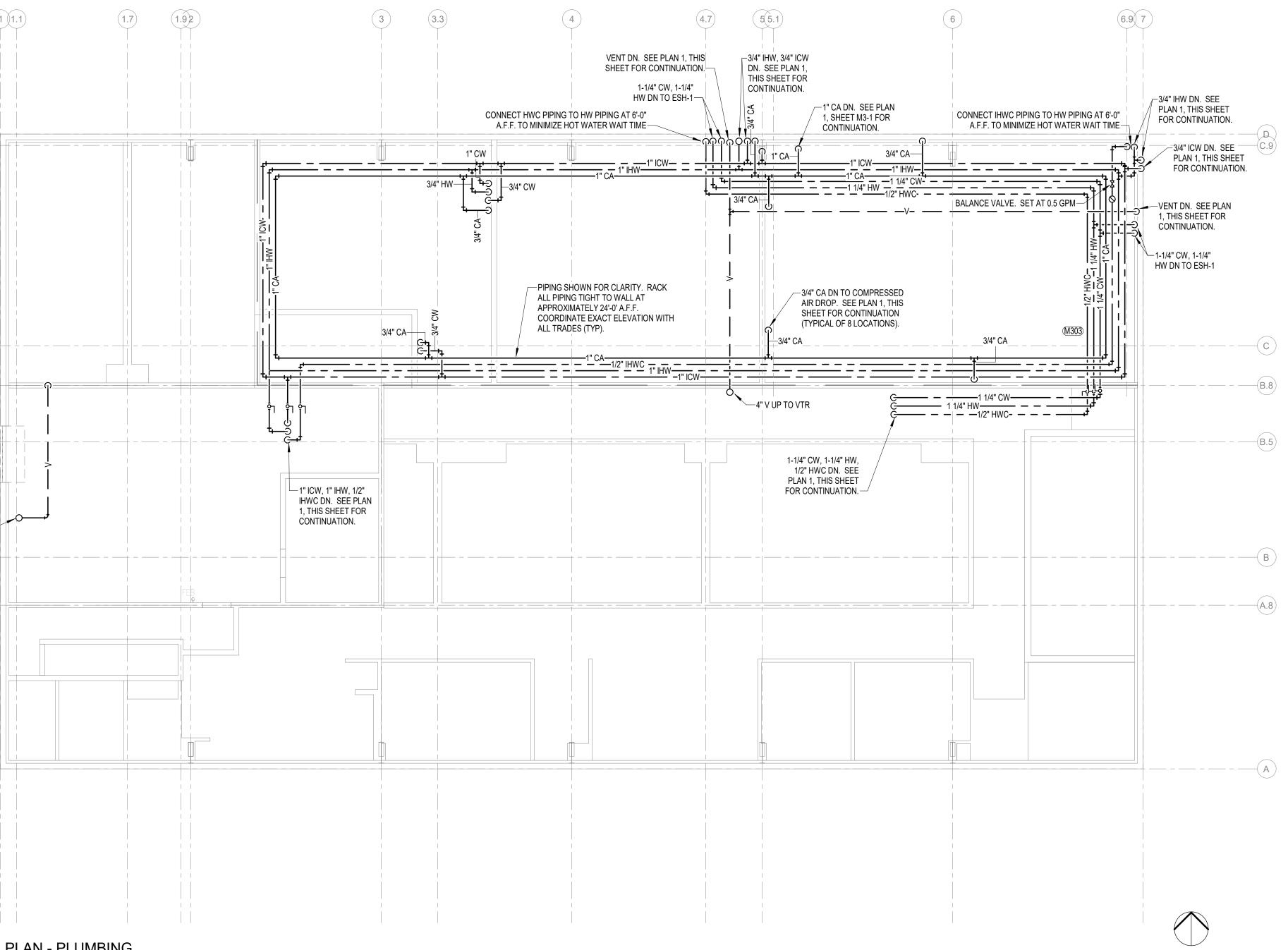
(1) (1.1)

V UP-

TYPE I INTERCEPTOR COVER-







PLUMBING GENERAL NOTES

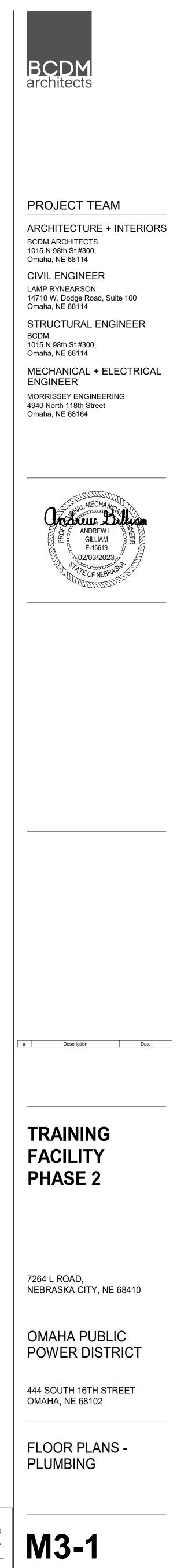
- 1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2. COORDINATE PIPE ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- 3. PLANS ARE SCHEMATIC IN NATURE. COORDINATE EXACT ROUTING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- 4. INSTALL ALL ISOLATION VALVES AND BALANCING VALVES IN ACCESSIBLE LOCATIONS.
- 5. ALL PIPING SHOWN FOR CLARITY. ROUTE WASTE, VENT, AND WATER PIPING CONCEALED IN CHASES, IN WALLS, OR ABOVE CEILINGS AS REQUIRED. 6. DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS.
- 7. NOT ALL CLEANOUTS ARE SHOWN. PROVIDE CLEANOUTS PER UNIFORM PLUMBING CODE. EXTEND CLEANOUTS TO WALLS WHERE APPLICABLE. COORDINATE CLEANOUT LOCATIONS
- WITH GENERAL CONTRACTOR. 8. SEE WASTE AND VENT RISER DIAGRAM ON SHEET M3-0 FOR WASTE AND VENT PIPE SIZES.
- 9. SEE PLUMBING FIXTURE SCHEDULE SHEET M6-3 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.
- 10. ALL PENETRATIONS OF FIRE RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.

<u>KEYNOTES</u>

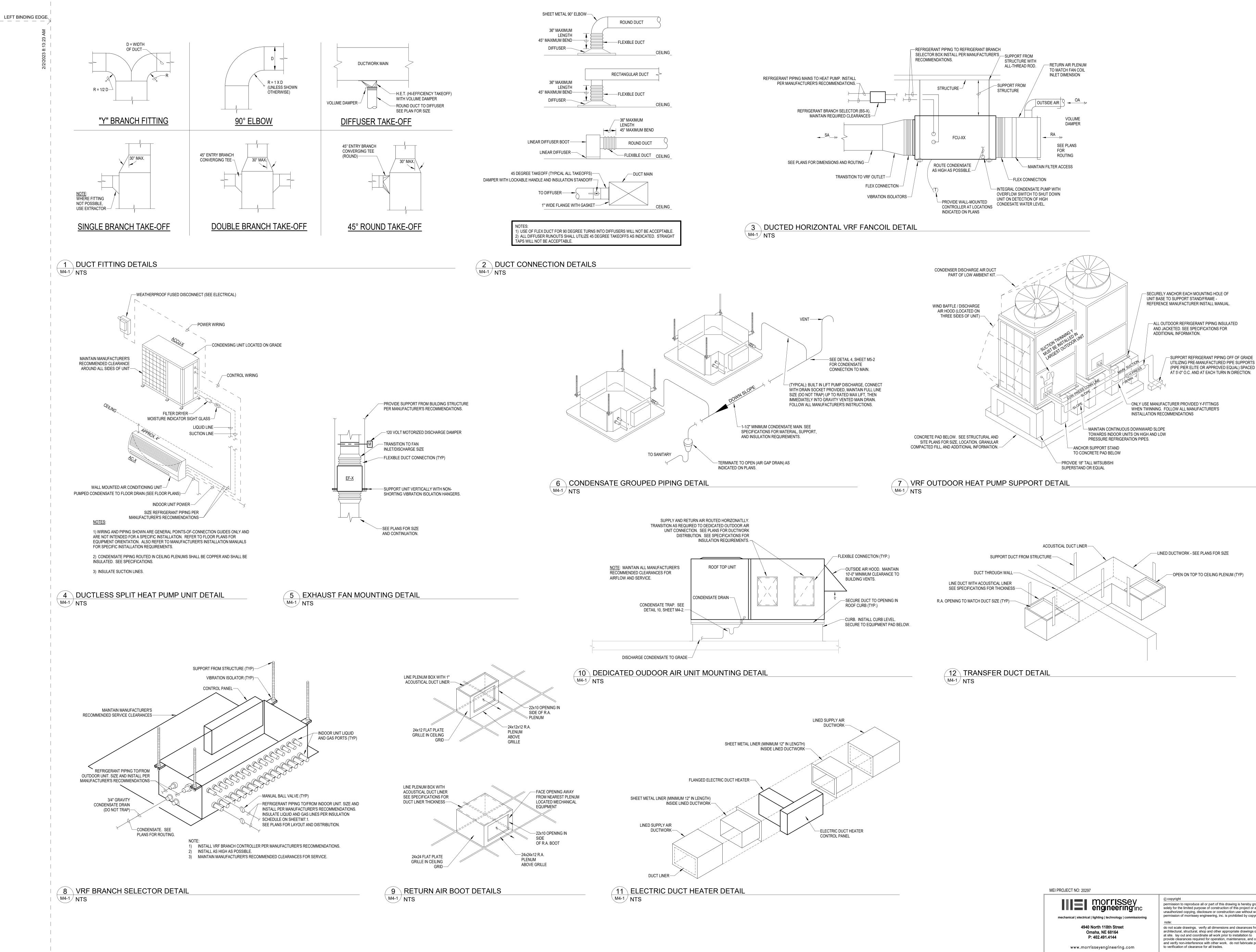
- M301 DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS, MAINTAIN ALL NEC REQUIRED CLEARANCES. M303 RACK COMPRESSED AIR, INDUSTRIAL COLD WATER, INDUSTRIAL HOT WATER, AND INDUSTRIAL HOT WATER CIRCULATION AGAINST WALL AT APPROXIMATELY 24'-0" A.F.F. VERIFY EXACT ROUTING WITH ALL TRADES. M306 PROVIDE ICE MAKER OUTLET BOX FOR REFRIGERATOR. COORDINATE EXACT BOX LOCATION WITH EQUIPMENT. ROUTE 1/4" CW WITH ISOLATION VALVE TO
- ICE MAKER OUTLET BOX. M307 LOCATE ALL PIPE ACCESSORIES REQUIRING ACCESS AT A MAXIMUM OF 3'-0" ABOVE CEILING.
- M308 PROVIDE WATER HAMMER ARRESTOR IN PLUMBING CHASE WITH ACCESS FROM MENS SIDE OF RESTROOM. COORDINATE EXACT LOCATION OF
- ACCESS PANEL WITH ALL TRADES. LOCATE PPIPING WITHIN CONCRETE BLOCK WALL. COORDINATE LOCATION M310 WITH ALL TRADES. NOT ALL LOCATIONS ARE IDENTIFIED.

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MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164



TRAINING FACILITY PHASE 2

Description Date

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7264 L ROAD, NEBRASKA CITY, NE 68410

OMAHA PUBLIC POWER DISTRICT

444 SOUTH 16TH STREET OMAHA, NE 68102

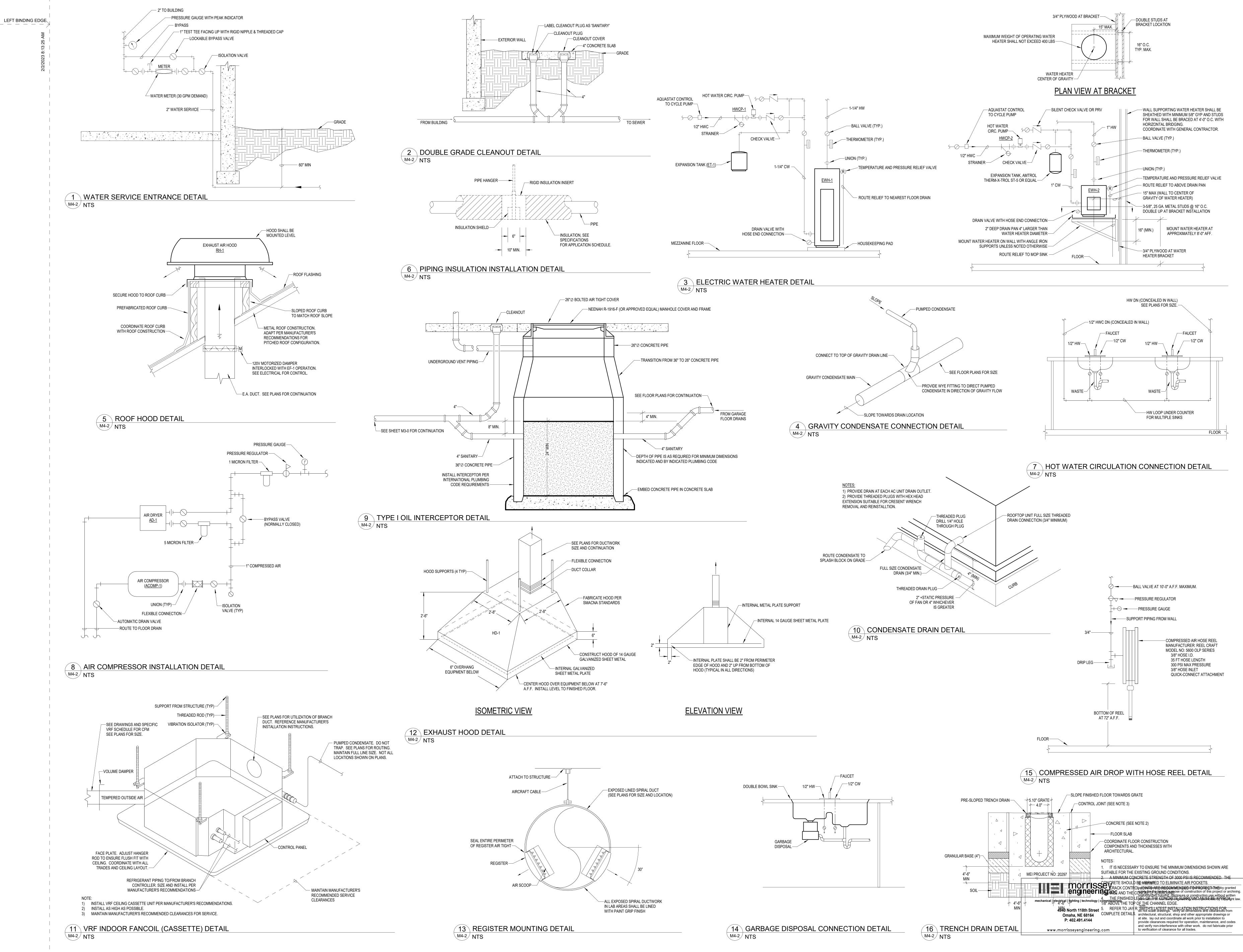
MECHANICAL DETAILS



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FLOOR



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TRAINING FACILITY PHASE 2

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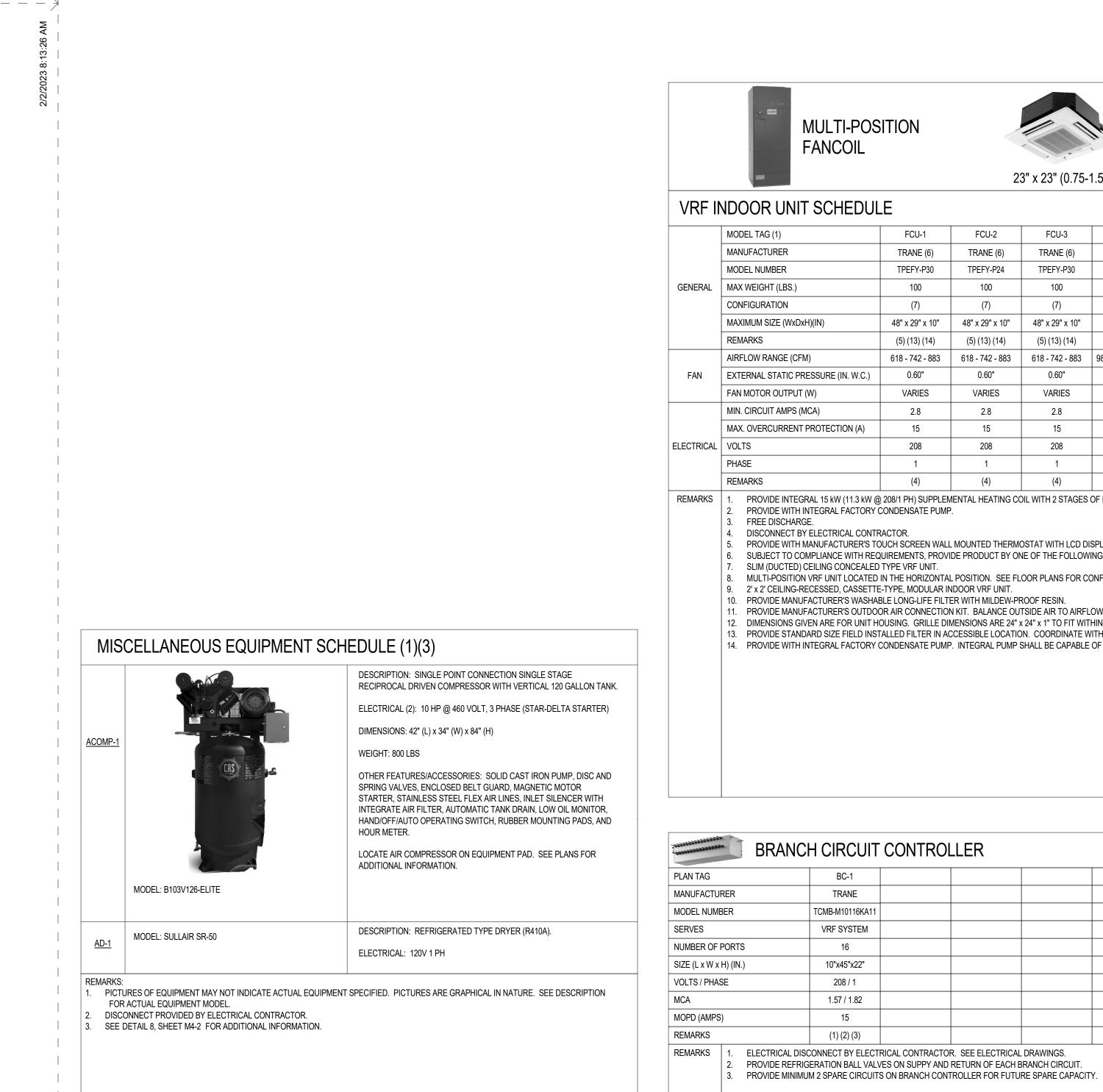
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OMAHA PUBLIC POWER DISTRICT

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MECHANICAL DETAILS





LEFT BINDING EDGE

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
STIVIDUL			DESCRIPTION
		L PIPING	1
+±+ +±	PIPE TEE / PIPE ELBOW		UNION
-+0 -+0	ELBOW DN / ELBOW UP		STRAINER WITH BLOWDOWN
—Ø—	ISOLATION VALVE (BALL OR BUTTERFLY)		CHECK VALVE (ARROW INDICATES FLOW)
-0-	BALANCING VALVE		AUTOMATIC CONTROL VALVE TWO-WAY / THREE WAY
	GATE VALVE	Ğ	PRESSURE REGULATING VALVE (PRV)
	GLOBE VALVE	<u> </u>	PRESSURE GAUGE
P.T.T.	PRESSURE/TEMPERATURE TEST PORT		THERMOMETER
		MBING	1
	DOMESTIC COLD WATER (CW)	F.L.	FLOW LINE
	DOMESTIC HOT WATER (HW) (NUMBER INDICATES TEMPERATURE)	WC	WATER CLOSET (SEE SPECIFICATIONS FOR TYPE)
	DOMESTIC HOT WATER CIRCULATION (HWC) (NUMBER INDICATES TEMPERATURE)	UR	URINAL (SEE SPECIFICATIONS FOR TYPE)
	SANITARY WASTE (BELOW GRADE)	LAV	LAVATORY (SEE SPECIFICATIONS FOR TYPE)
	SANITARY WASTE (ABOVE GRADE)	S	SINK (SEE SPECIFICATIONS FOR TYPE)
	VENT PIPING	EWC	ELECTRIC WATER COOLER (SEE SPECIFICATIONS FOR TYPE)
<u>2" D-1</u>	FLOOR DRAIN - SIZE TYPE	MS	MOP SINK (SEE SPECIFICATIONS FOR TYPE)
<u>+ HB</u>	HOSE BIBB	DI	DUCTILE IRON
++ <u>WH</u>	WALL HYDRANT (NON-FREEZE)	CI	CAST IRON
VTR		PVC	POLY VINYL CHLORIDE
I.E.	I.E. INVERT ELEVATION		
	HYDRONIC	HVAC PIPIN	G
\bigcirc	AIR VENT	— CD —	COIL CONDENSATE DRAIN (SLOPE TO DRAIN)
	REFRIGERA	TION PIPIN	G
— RL —	REFRIGERANT LIQUID LINE		SOLENOID VALVE
	REFRIGERANT SUCTION LINE		THERMOSTATIC EXPANSION VALVE (TXV)
	REFRIGERANT HOT GAS DISCHARGE LINE		SIGHT GLASS
		/AC	
1		(\$)	SENSOR
6x6 R-1 100		(J)	THERMOSTAT
		H H	HUMIDISTAT
<u>−6x6 R-1</u> 100	SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE AIRFLOW (CFM)		MOTORIZED CONTROL DAMPER WITH ACTUATOR
<u>6"□ D-1</u> 100		V.D.	VOLUME DAMPER
		FR.D.	FIRE DAMPER WITH SLEEVE AND ACCESS DOOR
X X	SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP / RISER DN	S.D.	SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
		M F.S.D.	FIRE/SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
	RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP / RISER DN	S.A.	SUPPLY AIR
10/0		R.A.	RETURN AIR
~ 12/8 ~	RECTANGULAR DUCTWORK (WIDTH/DEPTH)(IN) (FIRST NUMBER IS SIDE SHOWN)	E.A.	EXHAUST AIR
∑ 12"Ø ♀	ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN EXPOSED AREAS)	RLF.A.	RELIEF AIR
		0.A.	OUTSIDE AIR
	TURNING VANES	M.A.	MIXED AIR
	FIRE PR	OTECTION	
— F —	FIRE SPRINKLER PIPING	∽ FH	FIRE HYDRANT
— SP —	STANDPIPE PIPING		POST INDICATOR VALVE
	SPRINKLER BRANCH AND HEADS		ALARM CHECK VALVE
FHC	FIRE HOSE CABINET		O,S&Y VALVE
FVC	FIRE VALVE CABINET	FS	FLOW SWITCH

MULTI-POSITION FANCOIL





	MODEL TAG (1)	FCU-1	FCU-2	FCU-3	FCU-4	FCU-5	FCU-6	FCU-7	FCU-8	FCU-9	FCU-10	FCU-11	FCU-12	FCU-13	FCU-14	FCU-15	FCU-16	
-	MANUFACTURER	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	TRANE (6)	
-	MODEL NUMBER	TPEFY-P30	TPEFY-P24	TPEFY-P30	TPVFY-P48	TPVFY-P54	TPLFY-P18	TPLFY-P18	TPLFY-P18	TPEFY-P24	TPLFY-P12	TPLFY-P18	TPLFY-P08	TPEFY-P18	TPLFY-P12	TPEFY-P18	TPEFY-P30	
NERAL	MAX WEIGHT (LBS.)	100	100	100	175	175	100	100	100	100	50	100	50	100	50	100	100	
	CONFIGURATION	(7)	(7)	(7)	(8)	(8)	(9)	(9)	(9)	(7)	(9)	(9)	(9)	(7)	(9)	(7)	(7)	
	MAXIMUM SIZE (WxDxH)(IN)	48" x 29" x 10"	48" x 29" x 10"	48" x 29" x 10"	22" x 25" x 60"	22"x25"x60"	23"x23"x9" (12)	23"x23"x9" (12)	23"x23"x9" (12)	48" x 29" x 10"	23" x 23" x 9" (12)	34"x34"x12" (12)	23" x 23" x 9" (12)	40" x 29" x 10"	23" x 23" x 9" (12)	40" x 29" x 10"	48" x 29" x 10"	
	REMARKS	(5) (13) (14)	(5) (13) (14)	(5) (13) (14)	(5)	(5)	(2) (5) (10)	(2) (5) (10)	(2) (5) (10)	(5) (13) (14)	(2) (5) (10)	(2) (5) (10)	(2) (5) (10)	(5) (13) (14)	(2) (5) (10)	(5) (13) (14)	(5) (13) (14)	
	AIRFLOW RANGE (CFM)	618 - 742 - 883	618 - 742 - 883	618 - 742 - 883	980 - 1,190 - 1,400	1,040 - 1,262 - 1,485	636 - 671 - 742 - 812	636 - 671 - 742 - 812	636 - 671 - 742 - 812	618 - 742 - 883	245 - 280 - 335	636 - 671 - 742 - 812	230 - 280 - 315	424 - 512 - 600	245 - 280 - 335	424 - 512 - 600	618 - 742 - 883	
FAN	EXTERNAL STATIC PRESSURE (IN. W.C.)	0.60"	0.60"	0.60"	0.80"	0.80"	(3)	(3)	(3)	0.60"	(3)	(3)	(3)	0.60"	(3)	0.60"	0.60"	
	FAN MOTOR OUTPUT (W)	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	
	MIN. CIRCUIT AMPS (MCA)	2.8	2.8	2.8	39.5 / 33.9	39.5 / 33.9	0.54	0.54	0.54	2.8	0.29	0.54	0.28	1.6	0.29	1.6	2.8	
	MAX. OVERCURRENT PROTECTION (A)	15	15	15	40 / 35	40 / 35	15	15	15	15	15	15	15	15	15	15	15	
CTRICAL	VOLTS	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	
-	PHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	REMARKS	(4)	(4)	(4)	(1) (4)	(1) (4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	

PROVIDE WITH INTEGRAL FACTORY CONDENSATE PUMP.

PROVIDE WITH MANUFACTURER'S TOUCH SCREEN WALL MOUNTED THERMOSTAT WITH LCD DISPLAY AND OCCUPANT OVERRIDE. REFER TO CONTROL SPECIFICATIONS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: TRANE, MITSUBISHI, DAIKIN, SAMSUNG

SLIM (DUCTED) CEILING CONCEALED TYPE VRF UNIT.

B. MULTI-POSITION VRF UNIT LOCATED IN THE HORIZONTAL POSITION. SEE FLOOR PLANS FOR CONFIGURATION. 9. 2' x 2' CEILING-RECESSED, CASSETTE-TYPE, MODULAR INDOOR VRF UNIT.

10. PROVIDE MANUFACTURER'S WASHABLE LONG-LIFE FILTER WITH MILDEW-PROOF RESIN. 11. PROVIDE MANUFACTURER'S OUTDOOR AIR CONNECTION KIT. BALANCE OUTSIDE AIR TO AIRFLOW SHOWN ON FLOOR PLANS.

12. DIMENSIONS GIVEN ARE FOR UNIT HOUSING. GRILLE DIMENSIONS ARE 24" x 24" x 1" TO FIT WITHIN STANDARD CEILING GRID. 13. PROVIDE STANDARD SIZE FIELD INSTALLED FILTER IN ACCESSIBLE LOCATION. COORDINATE WITH UNIT CLEARANCE AREAS. FILTERS SHALL BE MERV 13. PROVIDE ADDITIONAL FILTERS FOR CONSTRUCTION PHASE.

14. PROVIDE WITH INTEGRAL FACTORY CONDENSATE PUMP. INTEGRAL PUMP SHALL BE CAPABLE OF 25" OF CONDENSATE LIFT.

BC-1			
TRANE			
TCMB-M10116KA11			
VRF SYSTEM			
16			
10"x45"x22"			
208 / 1			
1.57 / 1.82			
15			
(1) (2) (3)			

ELECTRICAL DISCONNECT BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. PROVIDE REFRIGERATION BALL VALVES ON SUPPY AND RETURN OF EACH BRANCH CIRCUIT.



HYPER-HEATING INVERTER VRF HEAT PUMP

VRF AIR-TO-AIR HEAT PUMP SCHEDULE

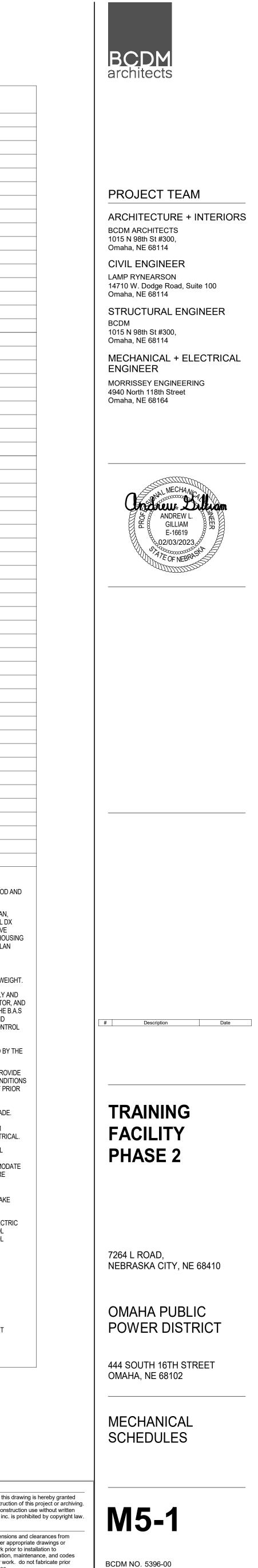
GENERAL	MANUFACTURER MODEL NUMBER SERVES CONFIGURATION MAXIMUM SIZE (HxWxD)(IN) MAXIMUM WEIGHT (LBS.) REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS) MINIMUM CIRCUIT AMPACITY (AMPS)	TRANE TURY-E3844BN-40A VRF SYSTEM H2i Y-SERIES 2 @ 72" x 69" x 30" 1,800 (3) (4) (6) (7) (8) (10) 480 3 - 2 @ 50					
-	SERVES CONFIGURATION MAXIMUM SIZE (HxWxD)(IN) MAXIMUM WEIGHT (LBS.) REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	VRF SYSTEM H2i Y-SERIES 2 @ 72" x 69" x 30" 1,800 (3) (4) (6) (7) (8) (10) 480 3 -					
-	CONFIGURATION MAXIMUM SIZE (HxWxD)(IN) MAXIMUM WEIGHT (LBS.) REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	H2i Y-SERIES 2 @ 72" x 69" x 30" 1,800 (3) (4) (6) (7) (8) (10) 480 3 -					
-	MAXIMUM SIZE (HxWxD)(IN) MAXIMUM WEIGHT (LBS.) REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	2 @ 72" x 69" x 30" 1,800 (3) (4) (6) (7) (8) (10) 480 3 -					
ELECTRICAL	MAXIMUM WEIGHT (LBS.) REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	1,800 (3) (4) (6) (7) (8) (10) 480 3 -					
ELECTRICAL	REMARKS VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	(3) (4) (6) (7) (8) (10) 480 3 -					
ELECTRICAL	VOLTS PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	480 3 -					
ELECTRICAL -	PHASE MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	3					
ELECTRICAL	MAXIMUM UNIT KW MAXIMUM OCP (AMPS)	-					
ELECTRICAL -	MAXIMUM OCP (AMPS)						
ELECTRICAL	(),	2 @ 50					
	MINIMUM CIRCUIT AMPACITY (AMPS)	∠ @ 00					
		2 @ 30.0					
	REMARKS	(8)			-		
	AMBIENT AIR TEMPERATURE (F)	95					
-	MINIMUM NET EER (ARI)	10.2					
COOLING (1)	NOMINAL CAPACITY (TONS)	32.0					
(.)	TOTAL COOLING (MBH)	384			+		
-	SENSIBLE COOLING (MBH)	-					
	AMBIENT AIR TEMPERATURE (F)	-8.1					
HEATING (2)	MINIMUM NET COP (ARI)	3.3					
	MINIMUM HEATING CAPACITY (MBH)	384					
	ТҮРЕ	R410A					
REFRIGERANT	MIN. NUMBER OF CIRCUITS						
NEFRIGERAINT		-					
	REMARKS	-					
COMPRESSORS -	TYPE	(5)					
	QUANTITY	4					
-	HP	-					
	REMARKS	-					
-	TYPE	PROP.					
CONDENSER FANS	QUANTITY	4					
TANG .	HP	-					
	REMARKS 1. COOLING CAPACITY AT 100% COME	(9)					
	 TEMPERATURE. HEATING CAPACITY: 100% HEATING CAPACITY AT 0° F OUTDOOR AMBIENT. 85% HEATING CAPACITY AT -13°F OUTDOOR AMBIENT. SIMULTANEOUS HEATING AND COOLING DOWN TO -4°F OUTDOOR AMBIENT. PROVIDE WITH 10 YEAR COMPRESSOR WARRANTY. HEAT RECOVERY TYPE AIR-TO-AIR HEAT PUMP SERVING MULTIPLE INDOOR VARIABLE REFRIGERANT VOLUME UNITS WITH MANUFACTURER'S CONTROLS. MANUFACTURER'S STANDARD INVERTER-DRIVEN SCROLL COMPRESSOR AND CONTROLS. PROVIDE WITH LOW AMBIENT KIT FOR OPERATION DOWN TO -10°F AMBIENT, SNOW / HAIL GUARDS AND BASE PAN HEATER. PROVIDE MANUFACTURER'S TWINNING KIT. UNIT INCLUDES (2) INDEPENDENT UNITS WITH (2) ELECTRICAL CONNECTIONS. ELECTRICAL DISCONNECTS BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. PROVIDE CUSTOM 1" MERV 4 FILTER RACK ON ALL EXTERIOR VRF HEAT PUMP OPENINGS TO PREVENT DIRT INFILTRATION. VERIFY EXACT SIZE AND QUANTITY WITH HEAT PUMP PROVIDED. PROVIDE 18" TALL SUPPORT STAND (MITSUIBISHI SUPERSTAND OR EQUAL) TO RAISE UNIT OFF GRADE. 						

	PLAN TAG (INDOOR UNIT)	AC-1	
	PLAN TAG (OUTDOOR UNIT)	ACCU-1	
	MANUFACTURER	MITSUBISHI	
	MODEL NUMBER	PKA-A30KA7	
	SERVES	TELECOM ROOM	
GENERAL	CONFIGURATION	(1)	
	MAXIMUM SIZE (LxWxH)(IN)	47" x 12" x 15"	
	ACCESSORIES	-	
	REMARKS	(4) (6) (9)	
AIRFLOW	AIRFLOW (CFM)	635 - 705 - 775	
	MOTOR HP	56 WATTS	
	VOLTS	208	
	PHASE	1	
ELECTRICAL	MOCP (OUTDOOR UNIT)	25	
	MCA (INDOOR / OUTDOOR)	1 / 19	
	REMARKS	(2) (8)	
	HEAT PUMP (MBH)	21	
HEATING	ELECTRIC COIL (KW)	-	
	TOTAL CAPACITY (MBH)	-	
	REMARKS	-	
	AMBIENT AIR DB (°F)	95°F	
	ENTERING AIR DB/WB (°F)	80°F / 67°F	
	TOTAL CAPACITY (MBH)	30.0	
COOLING	SENSIBLE CAPACITY (MBH)	-	
	REFRIGERANT TYPE	R-410A	
	MINIMUM SEER	21.4	
	REMARKS	(3) (5) (7)	
	 ACCOMMODATE REFRIGERANT LINE ELEVATION (SEE PLANS). PROVIDE MANUFACTURER'S WALL M PROVIDE COMPRESSOR WITH 5-YEAI PROVIDE WITH MANUFACTURER'S W. FILTERS. PROVIDE LOW AMBIENT KIT (WIND B/ COOLING DOWN TO -20°F AMBIENT. PROVIDE MANUFACTURER'S OUTDOO PUY-A30NHA7 (ACCU-1). POWER FOF OUTDOOR UNIT. PROVIDE 18" TALL SUPPORT STAND (EQUAL) TO RAISE UNIT OFF GRADE. 	OUNTED WIRED THE R WARRANTY. ASHABLE , MILDEW-F AFFLES ETC.) TO ALL OR CONDENSING UN R INDOOR UNIT TO C	RESISTANT, OW IT MODEL OME OFF OF

DEDICATED OUTSIDE AIR UNIT SCHEDULE

			ULL						
	PLAN TAG	DOAU-1							
	MANUFACTURER	TRANE							
	MODEL NUMBER	OADG010 F3							
GENERAL									
GENERAL	SERVES	(1)							
	SIZE (LxWxH) (IN)	176" x 63" x 69" (2)							
	CONFIGURATION	HORIZONTAL (3)							
	REMARKS	(4) (5) (6) (7) (8) (9)							
	TOTAL AIRFLOW (CFM)	2,400							
	EXTERNAL STATIC PRESSURE (IN. W.C.)	1.5" (10)							
SUPPLY		. ,							
FAN	DESIGN FAN RPM	1,822							
	MAXIMUM FAN BHP	1.37							
	REMARKS	(11)							
	RPM	1,750							
SUPPLY	HP	2							
FAN									
MOTOR	VOLTS	460							
	PHASE	3							
	TOTAL AIRFLOW (CFM)	2,000							
	EXTERNAL STATIC PRESSURE (IN. W.C.)	0.75" (10)							
EXHAUST	MAXIMUM FAN RPM	1,470							
FAN									
	MAXIMUM FAN BHP	0.75							
	REMARKS	(11)							
	RPM	1,750							
EXHAUST	HP	1.5							
FAN MOTOR	VOLTS	460							
MOTOR	PHASE								
		3							
ENERGY	ENTERING AIR TEMP (DB/WB) (°F)	95°F / 79.0°F							
RECOVERY	LEAVING AIR TEMP (DB/WB) (°F)	81.8°F / 70.4°F							
WHEEL COOLING	EXHAUST AIR TEMP (DB/WB) (°F)	75.0°F / 63.0°F							
AIR	SENSIBLE/TOTAL CAPACITY (MBH)	82.2 / 32.6							
	ENTERING AIR TEMP (DB) (°F)	45.0°F							
ENERGY									
RECOVERY WHEEL	LEAVING AIR TEMP (DB) (°F)	62.8°F							
HEATING	RETURN AIR TEMP (DB/WB) (°F)	70°F							
AIR	SENSIBLE/TOTAL CAPACITY (MBH)	65.5 / 32.0							
	ENTERING AIR TEMP (DB/WB) (°F)	81.8°F / 70.4°F							
DX COOLING	LEAVING AIR TEMP (DB/WB) (°F)	54.2°F / 54.0°F							
COOLING	CAPACITY - TOTAL / SENSIBLE (MBH)	126.4 / 73.4							
	AMBIENT AIR TEMPERATURE	105°F							
	ENTERING AIR TEMP (DB) (°F)	55.0°F							
HOT GAS									
REHEAT	LEAVING AIR TEMP (DB/WB) (°F)	70.0°F / 60.1°F							
	REHEAT CAPACITY (MBH)	96.5							
	ENTERING AIR TEMP (DB) (°F)	-10°F							
ELECTRIC	LEAVING AIR TEMP (DB) (°F)	42.6°F							
HEATING		40							
	CAPACITY (kW)								
	REMARKS	(15)							
	VOLTS	460							
	PHASE	3							
ELECTRICAL	MAXIMUM FUSE SIZE (AMPS)	80							
	. ,								
	MINIMUM CIRCUIT AMPACITY (AMPS)	71.3							
	REMARKS	(12)							
	ROOF CURB	(8)							
	FILTERS	(13)							
ACCESSORIES									
ACCESSORIES	ECONOMZER	(16)							
	THERMOSTAT	-							
	CONTROLS	(14)							
	REMARKS	(17)							
	(1) BUILDING OCCUPANT VENTILATION AN	ID EXHAUST.							
	(2) STANDARD UNIT DIMENSIONS. ADDITIO	ONAL SPACE REQUI	RED FOR ECONOMIZ	ZER HOOD /					
	ROOF CURB.								
	(3) OUTSIDE AIR ENERGY RECOVERY VEN								
	ENERGY RECOVERY ENTHALPY WHEE COOLING, ELECTRIC PREHEATING AND								
	MODULATING WHEEL SPEED FROST CO								
	WITH MINIMUM R-12 INSULATION. COORDINATE DOAU UNIT CONFIGURATION WITH PL								
	LAYOUT OF UNIT. VERIFY AVAILABLE CLEARANCE SPACE AND PROVIDE UNITS WITH ACCESS AS REQUIRED.								
	ACCESS AS REQUIRED.								
REMARKS	(4) STANDARD UNIT WEIGHT = 6,000 LBS. OTHER UNIT ACCESSORIES ARE ADDITIONAL WE								
	(5) PROVIDE MANUFACTURER'S UNIT CONTROLLER WITH THE FOLLOWING: DIRTY SUPPLY								
	EXHAUST FILTER INDICATORS, UNIT ON / OFF INDICATOR, ROTATION SENSOR INDICATO								
	FROST CONTROL INDICATOR. CONTROL POINTS SHALL BE INTERFACED THROUGH THE E SYSTEM. SEE SPECIFICATIONS FOR DETAILED LIST OF POINTS TO BE MONITORED AND								
	CONTROLLED THROUGH SYSTEM. COO	ORDINATE INTERFAC							
	CONTROLLED THROUGH SYSTEM. COORDINATE INTERFACE WITH TEMPERATURE CONTR CONTRACTOR AND BUILDING AUTOMATION SYSTEM.								
	(6) MODULATING ENTHALPY WHEEL SPEE		OL SHALL BE CONTF	ROLLED BY					
	MANUFACTURER'S STANDARD CONTR								
	(7) SET COOLING COIL DISCHARGE AIR TE								
	INCREASED DISCHARGE TEMPERATUR OF 70°F (ADJ.). IN HEATING MODE, ELE	RE (IN COOLING MOD	E) TO ROOM NEUTH						
	TO ENERGY RECOVERY WHEEL.			10 401 110					
	(8) PROVIDE 12" CURB SUITABLE FOR MO	UNTING ON EQUIPM	ENT PAD LOCATED	ON GRADE.					
	(9) PROVIDE COIL HAIL GUARDS, HINGED								
	COMPLIANT STAINLESS STEEL DRAIN F								
	(10) VERIFY TOTAL STATIC PRESSURE WITH								
	STATIC PRESSURE DOES NOT INCLUDE ACCESSORIES. OVERALL ROOFTOP UP								
	PRESSURE DROP VALUES OF A WET C	OIL, MID-LIFE FILTER							
	DROP AND EXTERNAL STATIC PRESSU	KE INDICATED.							
	(11) PROVIDE F.C. FANS WITH EC MOTORS,			AIR INTAKE					
	DAMPERS. PROVIDE WITH 2" MERV 13			a.L					
	(12) SINGLE POINT POWER CONNECTION.	PROVIDE INTEGRAI	DOOR INTERLOCKI	NG ELECTR					
	DISCONNECT SWITCH, MOTOR STARTE	ERS, CONTROL CIRC	UIT FUSING, AND C	ONTROL					
	TRANSFORMERS FOR 24 VAC CIRCUIT CENTER.	AS STANDARD COM	IPUNEN IS IN THE C	UNTROL					
	(13) 2" DISPOSABLE - MERV 13.								
	(14) DDC - SEE TEMPERATURE CONTROL S	PECIFICATIONS.							
	(15) SCR CONTROL CAPABLE OF FULL MOE	ULATION FROM 0-10	00% HEATING CAPA	CITY.					
	(16) 0 - 100% ECONOMIZER WITH COMPARA		NTROL.						
	(17) PROVIDE BYPASS DAMPER AT ENERG								
			PENINGS TO PREVE						
	(18) PROVIDE CUSTOM 1" FILTER RACK ON INFILTRATION VERIFY EXACT SIZE AN			INI DIRI					
	(18) PROVIDE CUSTOM 1" FILTER RACK ON INFILTRATION. VERIFY EXACT SIZE AN			INT DIRT					
				INI DIRI					

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02/03/2023

HOC	DD SCHEDULE		
PLAN TAG	PLAN TAG		
SERVES	SERVES		
CONFIGURATION		(1)	
MAX. WEIGHT (LBS)		1,000	
AIRFLOW (C	AIRFLOW (CFM)		
STATIC PRE	STATIC PRESSURE DROP (IN. W.C.)		
HOOD SIZE	HOOD SIZE (LXWXH)		
ACCESSORIES		-	
REMARKS	(1) CUSTOM MANUFACTURED OR FIELD CO CONSTRUCTED OF 14 GAUGE GALVANI INSTALL PER SMACNA STANDARDS.		

(2) SEE DETAIL 12, SHEET M4-2.

FAN SCHEDULE

	PLAN TAG	EF-1						
	MANUFACTURER	GREENHECK						
	MODEL NUMBER	SQ-99-VG						
GENERAL	SERVES	HD-1						
	ТҮРЕ	CENT. IN-LINE						
	MAXIMUM WEIGHT (LBS)	100						
	ROOF OPENING SIZE (IN)	-						
	ACCESSORIES	(3)						
	AIRFLOW (CFM)	500						
	TOTAL ESP (IN. W.C.)	0.75"						
	LEVEL	-						
	WHEEL TYPE	B.I.						
FAN	MINIMUM WHEEL DIA.	9.9"						
	MAXIMUM SONES	11.4						
	MAXIMUM FAN RPM	1,574						
	MAXIMUM FAN BHP	0.18 (2)						
	RPM	1,725						
	HP	0.25						
	VOLTS	115						
MOTOR	PHASE	1						
	ТҮРЕ	ECM						
	CONTROL DEVICE	(1)						
	REMARKS	-						
	(1) FAN SHALL BE CONTROLLED BY WALL SWITCH AND MONITORED BY BUILDING AUTOMATION SYSTEM.							
	(2) FAN BHP SHALL NOT EXCEED 85% OF MOTOR HP.							
REMARKS	(3) PROVIDE FAN WITH REMOTE 120V MOTORIZED DAMPER (LOCATED AT ROOF LEVEL AND INTERLOCKED WITH FAN OPERATION), INSULATED HOUSING, WIRING PIGTAIL, VERTICAL HANGING MOUNT, DISCONNECT, SPEED CONTROLLER, AND UL LISTING.							

RELIEF HOOD SCHEDULE

PLAN TAG			RHD-1			
MANUFACTU	RER		GREENHECK			
MODEL NUME	BER		GRSR-16			
SERVES			EF-1			
CONFIGURAT	ION		(1) (3)			
MAX. WEIGHT	CLBS	S)	100			
AIRFLOW (CF	M)		500			
MAXIMUM ST	ATIC	PRESSURE DROP (IN. W.C.)	0.05"			
ROOF OPENING SIZE			-			
NECK SIZE (L	xW)	(IN.)	16"Ø			
HOOD SIZE (L	_xW)	IN.) 29"Ø				
THROAT ARE	A (So	Q. FT)	1.0			
ACCESSORIE	S		(2)			
	(1)	SPUN ALUMINUM EXHAUST HO	OD.			
REMARKS	(2)	PROVIDE WITH ALUMINUM BIRE HOOD INSULATION.	DSCREEN, 12" ROOI	F CURB, CURB SEA	L AND 1" THICK	
	(3)	 COORDINATE EXACT INSTALLATION LOCATION WITH METAL BUILDING ROOF. MAINTAIN WATER SHED ON ROOF. 				

SERVICE	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS (IN)	VAPOR RETARDER REQUIRED	REMARKS
CONDENSATE DRAIN (COPPER)	ALL	MINERAL FIBER	1/2"	YES	-
REFRIGERANT SUCTION (RS)	1-1/4" AND SMALLER	FLEXIBLE ELASTOMERIC	3/4"	YES	-
REFRIGERANT SUCTION (RS)	1-1/2" AND LARGER	FLEXIBLE ELASTOMERIC	1"	YES	-
REFRIGERANT LIQUID (RL)	ALL	FLEXIBLE ELASTOMERIC	3/4"	YES	-
REFRIGERANT HOT GAS DISCHARGE (RD)	ALL	FLEXIBLE ELASTOMERIC	3/4"	YES	-
DOMESTIC COLD WATER (CW)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC HOT WATER (HW)	ALL	MINERAL FIBER	1"	NO	-
DOMESTIC HOT WATER RECIRC (HWC)	ALL	MINERAL FIBER	1"	NO	-
PLUMBING VENTS, 2 FEET BELOW ROOF	ALL	MINERAL FIBER	1/2"	YES	-

2. SEE PIPING INSULATION DETAIL 6 ON SHEET M4-2. 3. SEE PIPING INSULATION SPECIFICATION SECTIONS 220720 AND 230720.

DUCTWORK INSULATION SCHEDULE (1) (3)

				., (°,		
SERVICE	DUCTWORK APPLICATION	INSULATION TYPE	INSULATION THICKNESS (IN)	MINIMUM INSTALLED R-VALUE	VAPOR RETARDER REQUIRED	REMARKS
SUPPLY AIR	RECTANGULAR, ALL	DUCT LINER	1-1/2	6	YES	-
SUPPLY AIR	ROUND, EXPOSED	DUCT LINER	1-1/2	6	YES	(2)
RETURN AIR	RECTANGULAR, ALL	DUCT LINER	1-1/2	6	YES	-
OUTSIDE AIR	RECTANGULAR, ALL	MINERAL FIBER BLANKET	2-3/16	6	YES	-
OUTSIDE AIR	ROUND, ALL	MINERAL FIBER BLANKET	2-3/16"	6	YES	-
EXHAUST AIR	FROM EXTERIOR, BACK 36" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	6	YES	-
OUTSIDE AIR	RECTANGULAR, OUTDOORS	MINERAL FIBER BOARD	2-3/16"	8	YES	(4)
RELIEF AIR	RECTANGULAR, OUTDOORS	MINERAL FIBER BOARD	2-3/16"	8	YES	(4)
REMARKS						

1. ALL INSULATION SHALL MEET 2018 IECC REQUIREMENTS.

PROVIDE OWENS CORNING QUIETR SPIRAL DUCT LINER OR EQUAL. 3. SEE DUCT INSULATION SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

4. FOR ALL OUTDOOR DUCTWORK PROVIDE 2-3/16" DUCT LINER,1-1/2" MINERAL FIBER BOARD, AND ALUMNAGUARD WATERPROOF MEMBRANE.

DIFFUSER REGISTER GRILLE SCHEDULE

PLAN TAG	D-1	LD-1	R-1	R-2	G-1	G-2	G-3	G-4		
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS		
MODEL NUMBER	OMNI	FL-10	300RL	S300FL	PAR	PAR	23RL	PAR		
FUNCTION	SUPPLY	SUPPLY	SUPPLY	SUPPLY	RETURN	RETURN	RETURN	EXHAUST		
DESCRIPTION	FLAT PLATE	(5)	REGISTER	REGISTER	PERF GRILLE	PERF GRILLE	GRILLE	PERF. GRILLE		
DEFLECTION	360°	ADJUSTABLE	DOUBLE	DOUBLE	-	-	45°	-		
MAX. STATIC PRESSURE (" W.G.)	0.10"	0.10"	0.10"	0.10"	0.08"	0.08"	0.08"	0.08"		
CONSTRUCTION MATERIAL	STEEL	ALUMINUM	STEEL	ALUMINUM	STEEL	STEEL	ALUMINUM	STEEL		
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE		
NECK SIZE (IN)	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	22" x 22"	22" x 10"	SEE PLANS	SEE PLANS		
FACE SIZE (IN)	24" x 24"	SEE PLANS	NECK + 1-3/4"	NECK + 1-3/4"	24" x 24"	24" x 12"	NECK + 1-3/4"	24" x 24"		
ACCESSORIES	(4)	-	O.B.D.	EXTRACTOR	(3)	(3)	-	-		
REMARKS	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)		

REMARKS (2) NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS AND GRILLES LOCATED IN OCCUPIED SPACES.

(3) PROVIDE RETURN AIR BOOT. SEE DETAIL 9, SHEET M4-1.

(4) PROVIDE BACKPAN INSULATION BLANKET.

	PLAN TAG	HWCP-1	HWCP-2	
	MANUFACTURER	BELL & GOSSETT	BELL & GOSSET	
	MODEL NUMBER	NBF-25	NBF-25	
GENERAL	SERVES	HW CIRC.	IND. HW CIRC.	
	ТҮРЕ	IN-LINE	IN-LINE	
	ACCESSORIES	(1) (3)	(1) (3)	
	FLOW (GPM)	2	0.5	
	TOTAL HEAD (FEET)	12 (4)	12 (4)	
	SHUT-OFF HEAD (FEET)	30 (4)	30 (4)	
	NPSH AVAILABLE (FEET)	-	-	
PUMP	MIN. EFFICIENCY	-	-	
	FLUID	WATER	WATER	
	SUCTION SIZE (IN)	1/2"	1/2"	
	DISCHARGE SIZE (IN)	1/2"	1/2"	
	CUT / MAX. IMPELLER DIA. (IN)	-	-	
	RPM	3,300	3,300	
	BHP / HP	270 WATTS	270 WATTS	
	VOLTS	115	115	
	PHASE	1	1	
	TYPE	O.D.P.	0.D.P.	
	CONTROL DEVICE	(2)	(2)	
	REMARKS	-	-	

PUMP CONTROLLED BY AQUASTAT AND CONNECTED TO BUILDING AUTOMATION SYSTEM. SEE WATER HEATER DETAIL 3, SHEET M4-2 FOR PIPING SPECIALTIES. PUMP SHALL BE 3-SPEED WITH THERMALLY PROTECTED MOTOR COVERING A WIDE RANGE OF HYDRAULIC CAPABILITIES. MINIMUM PERFORMANCE ON SPEED 1: 2 GPM AT 11' H2O. PERFORMANCE ON SPEED 2: 2 GPM AT 13' H2O. MAXIMUM PERFORMANCE ON SPEED 3: 2 GPM AT 18' H2O. SET PUMP SPEED AS REQUIRED FOR APPLICATION.

PIPING SPECIALTIES SCHEDULE

PLAN TAG			
RER	STATE		
BER	ETC-15 (1)		
	DOMESTIC HW		
CONFIGURATION			
MAX. WEIGHT (LBS) - DRY WEIGHT			
SIZE (DIA x L) or (W x H) (IN.)			
TANK CAPACITY (GALLONS)			
ACCEPTANCE CAPACITY			
FLOW RATE (GPM)			
REMARKS			
1. DIAPHRAGM EXPA	ANSION TANK.		
	BER ION T (LBS) - DRY WEIGHT or (W x H) (IN.) TY (GALLONS) E CAPACITY GPM)	BER ETC-15 (1) DOMESTIC HW ION VERTICAL "(LBS) - DRY WEIGHT 30 or (W x H) (IN.) 16"Ø x 25" ITY (GALLONS) 15 E CAPACITY 5.6 GPM) -	RER STATE BER ETC-15 (1) DOMESTIC HW ION VERTICAL T(LBS) - DRY WEIGHT 30 or (W x H) (IN.) 16"Ø x 25" ITY (GALLONS) 15 E CAPACITY 5.6 GPM) -

\ \ /\T		-	
VVAI	ER HEATER SCHEDULI		
	PLAN TAG	EWH-1	EWH-2
	MANUFACTURER	A.O. SMITH	A.O. SMITH
GENERAL	MODEL NUMBER	DSE-100-45	DEL 30
	SERVES	SEE PLANS	IHW
	RECOVERY (GPH@ 100°F RISE)	263	18
	ТҮРЕ	(1)	(1)
TANK	STORAGE CAPACITY (GAL.)	100	30
	DIMENSIONS (LxWxH)(IN.)	59"x28"Ø	31"x22"Ø
	REMARKS	(2) (3)	(2) (3)
	VOLTAGE/PHASE	480V/3ph	480V/3ph
	CAPACITY (KW)	45	4.5
ELECTRIC	NUMBER OF STAGES	3	1
	KW PER STAGE	15	4.5
	REMARKS	-	-
REMARKS	 GLASS LINED, TANK TYPE ELECTRIC. ASME PRESSURE/TEMPERATURE RELIE PROVIDE WITH 3 YEAR WARRANTY. 	ef valve.	

	PLAN TAG	EDH-1			
	MANUFACTURER	INDEECO			
GENERAL	MODEL NUMBER	XUB			
	SERVES	SEE PLANS			
	APPROXIMATE SIZE (LxW)(IN)	26x14 (3)			
	ТҮРЕ	OPEN COIL			
	MAX. FINS PER INCH	-			
	REMARKS	(1) (2)			
	AIRFLOW (CFM)	2,400			
	FACE VELOCITY (FPM)	(4)			
AIR	MAX. AIR PRESSURE DROP (IN. WG)	0.02			
	ENTERING AIR TEMP (°F)	45.0			
	LEAVING AIR TEMP (°F)	99.7			
	TOTAL CAPACITY (MBH)	153.5			
	VOLTAGE/PHASE	480V/3Ø			
	CAPACITY (KW)	45.0			
ELECTRIC	NUMBER OF STAGES	SCR			
	kW PER STAGE	-			
	REMAKRS	(2)			
REMARKS	 (1) FLANGED ELECTRIC HEATING COIL. PROVIDE AIR FLOW SWITCH, PILOT SWITCH, SCR CONTROL, CLASS 1 CONTROL WIRING, BUILT-IN FUSES FOR EACH HEATER STAGE, DISCONNECT, THERMAL CUT-OUT, DUCT MOUNTED CONTROL PANEL, AND TERMINAL STRIP CONNECTION FOR DDC CONTROLS. 				
	(2) ELECTRIC HEAT CONTROLS SHALL INTERFACE WITH BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR REQUIRED CONTROL FEATURES. COORDINATE INTERFACE WITH TEMPERATURE CONTROL CONTRACTOR.				
		RECOMMENDED MINIMUM SPACING INSIDE DUCT TO MINIMIZE AIR			
	(4) MAINTAIN MINIMUM REQUIRED AIRFLOW VELOCITY ACCORDING TO MANUFACTURER'S RECOMMENDATION.				

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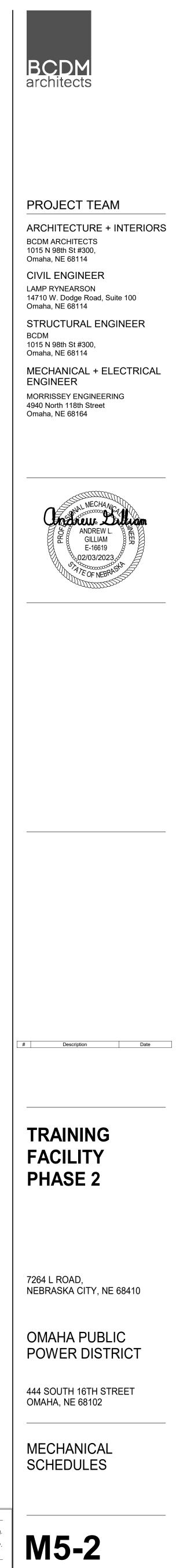
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note:

(5) FLOWBAR ARCHITECTURAL CEILING DIFFUSER, 1" SLOTS, HIGH THROW PATTERN CONTROLLER (SET TO DISTRIBUTE AIR HORIZONTALLY IN BOTH DIRECTIONS), INSULATED PLENUM, AND BORDER TYPE COMPATIBLE WITH CEILING.



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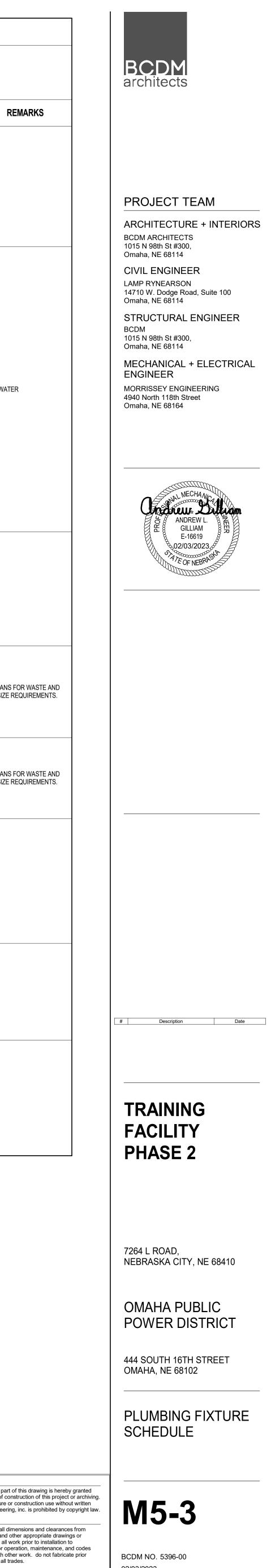
	PLUMBING FIXTURE SCHEDULE (1) (2) REMARKS: 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.						PLUMBING FIXTURE SCHEDULE (1) (2) REMARKS: 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.								
					SCRIPTION FOR ACTUAL FIXTURE AND MODEL.								SCRIPTION FOR ACTUAL FIXTURE AND MODEL.		
ТАС	G MODEL	FIXTURE (2) IMAGE	FAUCE	T-VALVE ACCESSORY (2) IMAGE	DESCRIPTION	CONNECTIONS CW HW V W	REMARKS	TAG	MODEL	FIXTURE (2) IMAGE	FAUCET MODEL	-VALVE ACCESSORY (2) IMAGE	DESCRIPTION	CONNECTIONS CW HW V W	REMARK
WC-	KOHLER: K-4325 "KINGSTON"		SLOAN: OPTIMA PLUS SFSM REGAL 111-1.28		DESCRIPTION: ELONGATED, SIPHON JET BOWL, WALL MOUNTED, BACK OUTLET WAT CLOSET WITH FLUSHOMETER. ADA COMPLIANT: YES COLOR: WHITE FLUSHOMETER: TOP SPUD. 1.28 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY WITH TRUE MANUAL OVERRIDE. SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HING RIM HEIGHT: 14"-15.5"		FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.) MS-1	WILLIAMS: SB-900 "SERVICEPTOR"		KOHLER: K-8907 "KINLOCK"		DESCRIPTION: FLOOR MOUNTED MOP SINK WITH WALL MOUNTED FAUCET. ADA COMPLIANT: NOT REQUIRED FIXTURE DIMENSIONS: 24" x 24" X 12" HIGH FIXTURE CONSTRUCTION: TERRAZZO. RIM GUARD: STAINLESS STEEL. FAUCET: ROUGH CHROME, WIDESPREAD BAST BRASS WITH SUPPLIES 8" ON CENTER. FAUCET MOUNTING: WALL CENTERED ON FIXTURE. FAUCET HANDLE: DUAL LEVER. FAUCET SPOUT: INTEGRAL VACUUM BREAKER, PAIL HOOK, AND HOSE THREAD OUTLET. WALL BRACE: ASSEMBLY WITH WALL BRACKET AND SUPPORT TO FAUCET SPOUT. HOSE HOLDER: E.L. MUSTEE & SONS 65.700; HEAVY DUTY 5/8" DIA. 31" RUBBER HOSE AN SPRING LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE. MOP HANGER: E.L. MUSTEE & SONS 65.600; THREE SPRING-LOADED RUBBER MOP HOLDERS ATTACHED TO STAINLESS STEEL WALL PLATE. WALL GUARD: E.L. MUSTEE & SONS 67.2424; 12" HIGH, 20 GAUGE, #304 STAINLESS STEEL WALL GUARD.	3/4" 3/4" 1 1/2" 3" D	
WC-			SLOAN: OPTIMA PLUS SFSM REGAL 111-1.28		DESCRIPTION: ELONGATED, SIPHON JET BOWL, WALL MOUNTED, BACK OUTLET WAT CLOSET WITH FLUSHOMETER. ADA COMPLIANT: NOT REQUIRED COLOR: WHITE FLUSHOMETER: TOP SPUD. 1.28 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY WITH TRUE MANUAL OVERRIDE. SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HING RIM HEIGHT: 17.5"-18"		FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.		GAURDIAN: G1902P				DESCRIPTION: SAFETY STATION WITH EYE WASH, PLASTIC BOWL. SHOWER HEAD: 10" DIAMETER PLASTIC. SHOWER VALVE: 1" IPS STAINLESS STEEL STAY-OPEN BALL VALVE. STAINLESS STEEL ACTUATING ARM AND 29" STAINLESS STEEL PULL ROD. SPRAY HEAD ASSEMBLY: TWO GS-PLUS SPRAY HEADS. EACH HEAD WITH A FILP TOP DU COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE WATER IMPURITIES. EYE WASH BOWL: 11-1/2" PLASTIC. EYE WASH VALVE: 1/2" STAINLESS STEEL STAY-OPEN BALL VALVE. PIPE AND FITTINGS: SCHEDULE 40 BRUSHED STAINLESS STEEL. FURNISH WITH POLYETHYLENE COVERS FOR VERTICAL PIPING FOR HIGH VISIBILITY AND CORROSION	1 1/4" 1 1/4" CT	
UR-	KOHLER: 4991-ET "BARDON"		SLOAN: OPTIMA PLUS SFSM GEM2 186-0.125 XL HEU		DESCRIPTION: WASHDOWN, WALL HUNG, WALL OUTLET WITH URINAL FLUSHOMETER ADA COMPLIANT: YES COLOR: WHITE FLUSHOMETER: TOP SPUD. 0.5 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM WITH TRUE MECHANICAL OVERRIDE. RIM HEIGHT: 17"			ESH-1					RESISTANCE. SUPPLY: 1-1/4" NPT FEMAL TOP OR SIDE INLET. SIGN: FURNISH WITH ANSI-COMPLIANT INDENTIFICATION SIGN. ADDITIONAL OPTIONS: FC20 - REGULATES SHOWER FLOW RATE TO 20 GPM. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVE TO PROVIDE TEMPERED WATER TO EMERGENCY EYEWASH. THERMOSTATIC MIXING VALVE: DESIGNED TO PROVIDE 80° F TEPID, POTABLE WATER AT EMERGENCY EYEWASH, TO MAINTAIN TEMPERATURE AT PLU OR MINUS 5° F THROUGHOUT REQUIRED 15-MINUTE TEST PERIOD, AND IN CASE OF UNIT FAILURE TO CONTINUE COLD-WATER FLOW, WITH UNION CONNECTIONS, CONTROLS, METAL PIPING, AND CORROSION-RESISTANT ENCLOSURE. SUPPLY CONNECTIONS: FOR HOT AND COLD WATER.		PID WATER
L-1	KOHLER: K-2005 "KINGSTON"		SLOAN: OPTIMA EAF-250		DESCRIPTION: WALL MOUNT LAVATORY WITH BATTERY POWERED SENSOR FAUCET. ADA COMPLIANT: YES COLOR: WHITE FIXTURE DIMENSIONS: 21-1/4" X 18-1/8" CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS. FAUCET VALVE OPERATION: BATTERY POWERED, SENSOR OPERATED FAUCET ACCESSORIES: BELOW DECK THERMOSTATIC MIXING VALVE. FAUCET SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR. 1/2-GPM FLO' DRAIN: GRID STRAINER ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM.	W. FROM	,II.	OB-1	OATEY: I2K		-:-		DESCRIPTION: RECESSED WALL OUTLET BOX WITH ISOLATION VALVE.	1/4"	
S-1	ELKAY: ELUHAD321655		KOHLER: K-596-CF "SIMPLICE"		DESCRIPTION: UNDER-MOUNT DOUBLE BOWL 18 GAUGE STAINLESS STEEL SINK WITH GOOSENECK FAUCET. ADA COMPLIANT: YES FIXTURE BOWL DIMENSIONS: DOUBLE BOWL 32"x16"x5-1/2" FIXTURE CONSTRUCTION: FAUCET INLET SPACING TO MATCH SINK OPENINGS. FIXTURE DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CF CUP. FOOD WASTE DISPOSER: IN-SINK ERATOR, BADGER 5XP, 3/4 HP, 115 VAC. INCLUDE M WITH OVERLOAD PROTECTION AND RESET BUTTON, WALL SWITCH, CORROSION RESISTANT CHAMBER WITH JAM RESISTANT STAINLESS STEEL GRINDER, SPLASH GU AND COMBINATION COVER/STOPPER. FAUCET HANDLE: SINGLE HANDLE LEVER. FAUCET SPOUT: 8-1/2" SWING SPOUT WITH 1.75 GPM FLOW AERATOR.	RUMB 10TOR	yır	2" D-1	J.R. SMITH: 2005		-:-		DESCRIPTION: FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE.	SEE I VENT	E PLANS FOR WAS NT SIZE REQUIREM
HS-	ADVANCE TABCO: 7-PS-68	- med	NONE:		FAUCET FINISH: POLISHED CHROME. DESCRIPTION: HEAVY GAUGE TYPE 304 STAINLESS STEEL WALL MOUNTED HAND SIN WITH SPLASH MOUNTED GOOSE NECK FAUCET. ADA COMPLIANT: YES. FIXTURE DIMENSIONS: 10" X 14" X 5" FIXTURE DIMENSIONS: 10" X 14" X 5" FIXTURE CONSTRUCTION: STAINLESS STEEL. FAUCET: SPLASH MOUNTED GOOSE NECK FAUCET. FAUCET VALVE OPERATION: DUAL LEVEL MANUAL FAUCET.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4" D-2	J.R. SMITH: #9895 (6" WIDE)		-:-		FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 8.5" ROUND MEDIUM DUTY GRATE. DESCRIPTION: NON-METALLIC TRENCH DRAIN, POLYESTER RESIN AND QUARTZ AGGREGATE, PRECAST, INTERLOCKING DESIGN, INTEGRAL METAL RAIL, WITH BOTTOM RADIUS AND 0.5 PERCENT SLOPE. CHANNEL SLOPE DRAIN SYSTEM OR EQUAL.		E PLANS FOR WAST
EWC	ELKAY: LZSTL8WSSP		-:		DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CRUMB CUP DESCRIPTION: BARRIER FREE WALL MOUNTED BI-LEVEL FILTERED WATER COOLER W BOTTLE FILLER. ADA COMPLIANT: YES NUMBER OF BUBBLERS: TWO + BOTTLE FILLER (SEE BELOW) BOTTLE FILLER: SENSOR ACTIVATED, 1.1 GPM LAMINAR FLOW WITH 20 SECOND SHUT OFF, LED LIGHT AND BOTTLES SAVED DIGITAL DISPLAY COUNTER. FIXTURE CABINET MATERIAL: STAINLESS STEEL. THERMOSTAT: ADJUSTABLE SET AT 50°F. ELECTRICAL: 120V, 3 WIRE CORD AND PLUG. ACTIVATION: PUSH BAR ACTUATION MECHANISM. UNIT SHALL INCLUDE 3000-GALLON CAPACITY FILTER, CERTIFIED TO NSF/ANSI 42 & 53, WITH VISUAL FILTER MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY AND SHALL AUTOMATICALLY DETECT NEW FILTER/RESET VISUAL FILTER MONITOR ACCORDINGLY. UNIT SHALL TURN OFF REFRIGERATION SYSTEM AS NEEDED, IN ADDITION TO SELF-DIAGNOSING SYSTEM ISSUES AND DISPLAY RELATED MESSAGES.	WITH 1/2" 1 1/4" 1 1/4 T I D T A	FIXTURE UNIT CAPACITY: 8 GPH.	TD-1	WOODFORD: 67C		-:-		 PRECAST MATERIAL: LOAD PRESSURE OF 14,500 PSI, BENDING PRESSURE OF 2,900 PS FROST-PROOF, SALT-PROOF, INERT NDER DILUTE ACID AND ALKALI CONDITIONS, AND LESS THAN 1.0 PRECENT WATER ABSORPTION RATE. CHANNEL SECTIONS: INTERLOCKING-JOINT, PRECAST, MODULAR UNITS WITH END CAPS. PROVIDE OUTLETS IN NUMBER, SIZES, AND LOCATIONS INDICATED. INCLUDE EXTENSION SECTIONS NECESSARY FOR REQUIRED DEPTH. GRATES: CLASS C, GALVANIZED STEEL SLOTTED. LOCKING MECHANISM: MANUFACTURER'S STANDARD DEVICE FOR SECURING GRATES TO CHANNEL SECTIONS. CATCH BASINS, 21-BY-14-INCH POLYMER-CONCRETE BODY WITH SLOTTED GRATE. GRATE RATING TO MATCH DRAIN. DESCRIPTION: WALL HYDRANT WITH THE FOLLOWING FEATURES: NON-FREEZE, AUTOMATIC DRAINING, ANTI-BACKFLOW TYPE, KEY OPERATION, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. INCLUDE OPERATING KEY FOR EACH HYDRANT. TYPE: SURFACE MOUNT FINISH: CHROME PLATED OPERATION: KEY, 3/8" OPERATING ROD		
								HB-1	WOODFORD: 26C		-:-		HOSE BIBB WITH BRONZE BODY, RENEWABLE COMPOSITION DISC, 3/4" NPS THREADED OR SOLDER JOINT INLET. PROVIDE GARDEN HOSE THREADS ON OUTLET AND INTEGRAL NON REMOVABLE, DRAINABLE, HOSE CONNECTION WITH ANTI-SIPHON VACUUM BREAKER. FINISH: CHROME OPERATION: WHEEL-HANDLE	., <mark>3/4" 0" 0" 0" 0"</mark>	

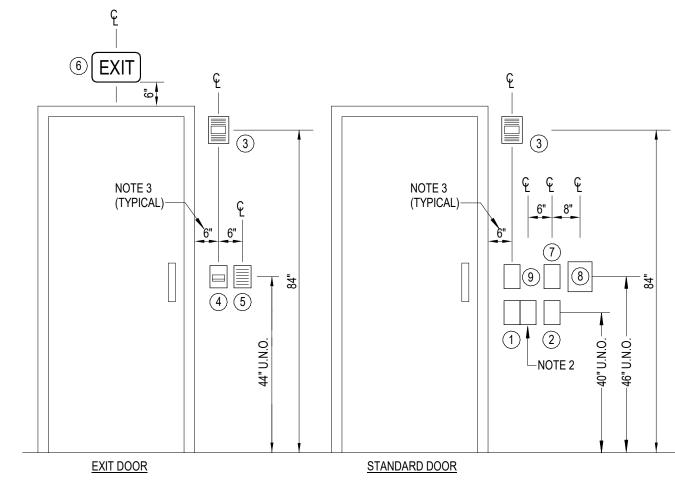
PLUMBING FIXTURE SCHEDULE (1) (2)

PLUMBING FIXTURE SCHEDULE (1) (2)

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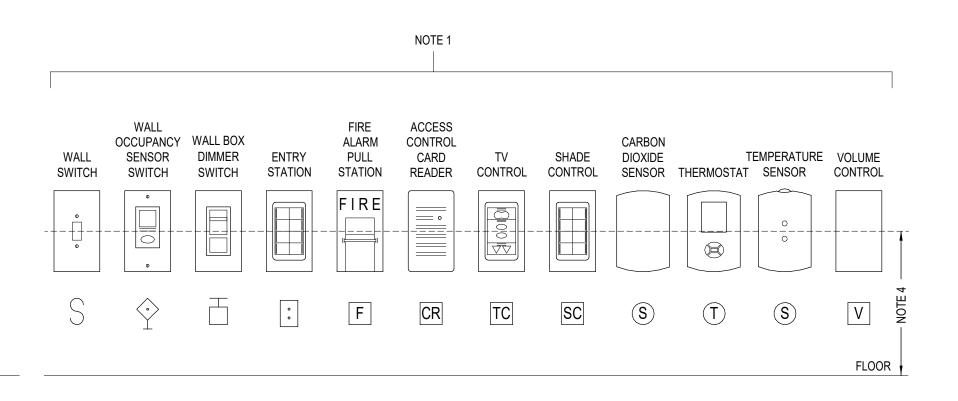


- DEVICES:

- (6) EXIT SIGN

- (9) OWNER PROVIDED WALL PHONE

DEVICE ALIGNMENT DETAIL E0-0 NOT TO SCALE



(1) WALL SWITCH, WALL OCCUPANCY SENSOR SWITCH, WALL BOX DIMMER SWITCH, OR ENTRY STATION (2) THERMOSTAT, TEMPERATURE SENSOR, OR CARBON DIOXIDE SENSOR ROUGH-IN

(3) FIRE ALARM AUDIO/VISUAL INDICATING DEVICE

(4) FIRE ALARM PULL STATION

(5) ACCESS CONTROL CARD READER

- (7) GAI-TRONICS VOLUME CONTROL
- (8) GAI-TRONICS RECESSED PHONE

NOTES

- 1. ALIGN DEVICES VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE. NOT ALL DEVICES OR CONFIGURATIONS ARE DEPICTED ON THIS DETAIL. FOR ANY CONFIGURATIONS WITH FOUR OR MORE DEVICES, COORDINATE ARRANGEMENT WITH THE ENGINEER PRIOR TO ROUGH-IN. SEE FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS.
- 2. WHERE MULTIPLE SWITCHES OR WALL BOX DIMMERS ARE GANGED TOGETHER, ALIGN FIRST GANG WITH DEVICES ABOVE AND ADD DEVICES TO THE RIGHT AS REQUIRED.
- 3. DIMENSIONS ARE TO BE MEASURED FROM OUTSIDE EDGE OF DOOR FRAME OR TRIM. WHERE SIDE LIGHT WINDOWS ARE PROVIDED, DIMENSIONS SHOULD BE MEASURED FROM OUTSIDE EDGE OF SIDE LIGHT WINDOW FRAME OR TRIM.
- 4. ALL DEVICES SHALL BE LOCATED TO MAINTAIN ALL A.D.A. MOUNTING HEIGHT REQUIREMENTS AND SUCH THAT CENTER OF ADJACENT DEVICES ARE AT SAME ELEVATION (TYPICALLY 44" A.F.F. TO CENTER OF DEVICE). NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.

GENERAL FIRE ALARM NOTES

- 1. PROVIDE FIRE ALARM WIRING TO POST-INDICATOR VALVE. USE RGS CONDUIT WHERE EXPOSED ABOVE GRADE. PROVIDE FIRE ALARM WIRING TO EACH FIRE SPRINKLER SYSTEM FLOW AND TAMPER SWITCH. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR AND MECHANICAL DRAWINGS.
- 2. ALL FIRE ALARM WIRING SHALL BE RAN FREE-AIR ABOVE NON-ACCESSIBLE CEILINGS AND IN CONDUIT IN AREAS WITH EXPOSED STRUCTURE (NO CEILINGS). IN EXPOSED STRUCTURE AREAS. ROUTE CONDUIT TIGHT TO STRUCTURE. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER.
- 3. ENSURE ALL PENETRATIONS THROUGH FIRE AND SMOKE WALLS ARE PROPERLY SEALED. SEE ARCHITECTURAL CODE REVIEW PLAN FOR FIRE AND SMOKE WALL LOCATIONS.
- 4. PROVIDE ADDRESSABLE CONTROL MODULES AS REQUIRED FOR CONTROL OF ELECTRIC LOCKS/STRIKES ON EGRESS DOORS. DOORS SHALL BE UNLOCKED IN AN ALARM CONDITION. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE.
- 5. PROVIDE ELECTRICAL CONNECTIONS TO SMOKE AND FIRE/SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. PROVIDE A DUCT MOUNTED SMOKE DETECTOR WITH 5'-0" OF SMOKE DAMPER PER IMC 607.3.3.2. PROVIDE 120V CONNECTION FROM LOCKABLE CIRCUIT BREAKER IN NEAREST 120V PANEL WITH A MAXIMUM OF 6 PER 20A/1P CIRCUIT. VERIFY EXACT QUANTITY AND LOCATION OF DAMPERS WITH MECHANICAL DRAWINGS. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.

GENERAL SPECIAL SYSTEMS NOTES

- 1. SPECIAL SYSTEMS ROUGH-INS PROVIDED BY ELECTRICAL CONTRACTOR. 2. PROVIDE J-HOOK CABLE SUPPORTS FOR ALL CABLE NOT SUPPORTED BY CABLE TRAY,
- MAXIMUM SPACING SHALL BE 60".
- 3. PROVIDE UL LISTED FIRESTOP AND SMOKESTOP ASSEMBLIES FOR ALL RATED PENETRATIONS. 4. PROVIDE STAINLESS STEEL WALL PLATE WITH MOUNTING STUDS FOR ALL SINGLE CABLE TELEPHONE OUTLETS MOUNTED AT 48". ENSURE TERMINATION MATCHES CATEGORY CABLE RATING
- 5. PROVIDE 10' SERVICE LOOP FOR ALL COMMUNICATIONS CABLES AT COMMUNICATION TERMINATION ROOM, 3' SERVICE LOOP AT STATION END.
- 6. ALL TELECOMMUNICATIONS CABLING SHALL BE TERMINATED TO THE COMMUNICATIONS TERMINATION ROOM DESIGNATED FOR THAT SPECIFIC AREA OF THE FACILITY, UNLESS
- OTHERWISE INDICATED. 7. PROVIDE FACTORY CABLE DROP-OUTS FOR ANY CABLING ENTERING OR EXITING CABLE TRAY OR LADDER RUNWAY.
- 8. PROVIDE ALL SUGGESTED FACTORY MOUNTING BRACKETS FOR LADDER RUNWAY. PROVIDE END CLOSING KIT FOR ALL LADDER RUNWAY THAT DOES NOT TERMINATE TO A WALL.
- 9. PROVIDE TWO-HOLE, DOUBLE CRIMP, GROUNDING LUGS WITH VIEWING HOLES, SIZED TO MATCH CONDUCTORS.
- 10. PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR ALL GROUND CONNECTIONS.
- 11. MECHANICALLY LABEL ALL GROUND BARS AND CONNECTIONS TO GROUND BARS. 12. MECHANICALLY LABEL TERMINATION BLOCKS AND CABLES.
- 13. PROVIDE (2) 1-1/2"C. SLEEVES ABOVE ACCESSIBLE CEILING FROM EACH ROOM THROUGH WALL TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING OR OVERHEAD PATHWAY. PROVIDE INSULATED BUSHINGS ON EACH END. SEAL BOTH ENDS OF CONDUIT WITH REMOVABLE PLENUM RATED ACOUSTICAL SEALANT.

GENERAL SITE NOTES

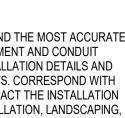
- 1. UTILITY LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE AND THE MOST ACCURATE INFORMATION AVAILABLE AT THE TIME OF DESIGN. PRIOR TO EQUIPMENT AND CONDUIT INSTALLATION, THE CONTRACTOR SHALL COORDINATE EXACT INSTALLATION DETAILS AND MODIFY WORK PLAN ACCORDINGLY TO MEET UTILITY REQUIREMENTS. CORRESPOND WITH UTILITY COMPANY PRIOR TO ANY SITE DEVELOPMENT THAT MAY IMPACT THE INSTALLATION SUCH AS IRRIGATION INSTALLATION, CONCRETE OR ASPHALT INSTALLATION, LANDSCAPING, ETC.
- 2. MINIMUM SIZE FOR ALL UNDERGROUND CONDUITS SHALL BE 1" UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #10 UNLESS OTHERWISE NOTED.
- 3. ROUTE CONDUITS UNDER HARD SURFACES AS MUCH AS POSSIBLE TO AVOID CONFLICTS WITH LANDSCAPING AND LAWN IRRIGATION.
- 4. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE, LIGHTING, AND EQUIPMENT
- BRANCH CIRCUITS. 5. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

GENERAL LIGHTING NOTES

- 1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- 2. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING BRANCH CIRCUITS. 3. PROVIDE 0-10V CONTROL WIRING TO ALL LUMINARIES SERVED BY 0-10V DIMMING DEVICES.
- ROUTE ALL CONTROL WIRING IN CONDUIT. 4. SUBSCRIPT "NL" INDICATES FIXTURE CONNECTED TO UNSWITCHED NIGHT LIGHTING CIRCUIT.
- 5. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.
- 6. SEE DEVICE ALIGNMENT DETAIL FOR INSTALLATION LOCATION OF DEVICES ADJACENT TO DOORS AND MOUNTING HEIGHT REQUIREMENTS.
- 7. CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES, SPEAKERS, FIRE ALARM, ETC. WITH FIRE RATED WALLS AND CEILINGS AND PROVIDE ENCLOSURES AS REQUIRED TO MAINTAIN THE FIRE INTEGRITY RATING. COORDINATE EXACT LOCATIONS OF FIRE RATED WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL POWER NOTES

- 1. MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2". MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1." SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- 2. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- 3. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.
- 4. SEE DEVICE ALIGNMENT DETAIL FOR INSTALLATION LOCATION OF DEVICES ADJACENT TO DOORS AND MOUNTING HEIGHT REQUIREMENTS.
- 5. INSTALL CONVENIENCE RECEPTACLES AT EQUIPMENT REQUIRING SERVICING PER 2020 NEC 210.63.
- 6. IN EXPOSED STRUCTURE AREAS (NO CEILINGS), ROUTE CONDUIT TIGHT TO STRUCTURE. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE IN FINISHED AREAS WITHOUT A CEILING. EXPOSED WIRING OF ANY TYPE WILL NOT BE ALLOWED IN FINISHED AREAS.
- 7. ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED AND SUPPORTED SO THE NEAREST OUTER SURFACE OF THE CABLE OR RACEWAY IS NOT LESS THAN 6 INCHES FROM THE NEAREST SURFACE OF THE ROOF DECKING.
- 8. CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES, SPEAKERS, FIRE ALARM, ETC. WITH FIRE RATED WALLS AND CEILINGS AND PROVIDE ENCLOSURES AS REQUIRED TO MAINTAIN THE FIRE INTEGRITY RATING. COORDINATE EXACT LOCATIONS OF FIRE RATED WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 9. REFER TO ACCESS CONTROL DETAIL FOR DOOR HARDWARE ROUGH-IN REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- 10. COORDINATE ALL FLOOR BOX LOCATIONS WITH ARCHITECT AND FURNITURE EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- 11. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION OF DEVICES FOR ALL TVs WITH ARCHITECT PRIOR TO ROUGH-IN.
- 12. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH IN FOR ALL THERMOSTATS AND/OR SENSORS. ROUGH-IN TO INCLUDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1/2" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING. LOCATE BOX AT 44" AFF ALIGNED VERTICALLY AND HORIZONTALLY WITH ADJACENT ELECTRICAL DEVICES. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT AND/OR SENSOR LOCATIONS.
- 13. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL REQUIREMENTS AND INFORMATION ON MECHANICAL EQUIPMENT.

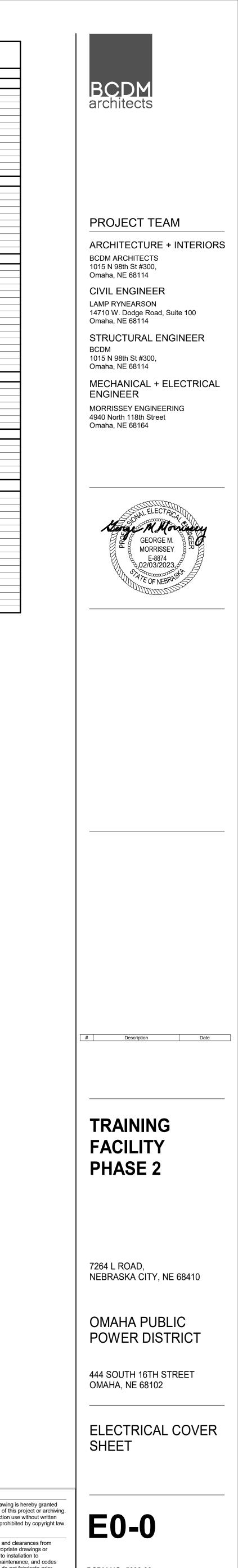


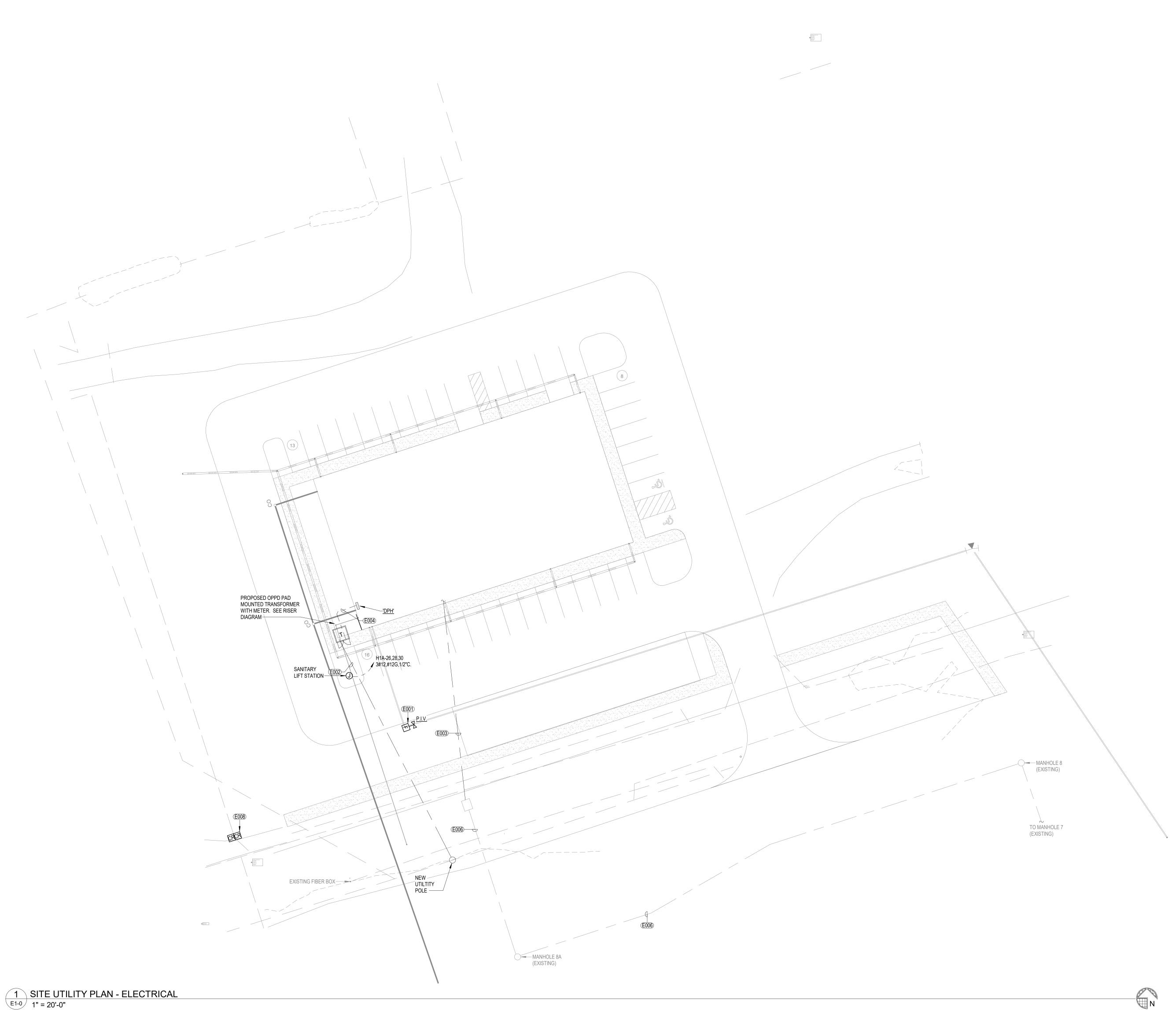
ELECTRICAL SYMBOLS DESCRIPTION DESCRIPTION SYMBOL SYMBOL LIGHTING 3 - WAY SWITCH LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT OR BATTERY 4 - WAY SWITCH STRIP LUMINAIRE WALL BOX DIMMER SWITCH CEILING MOUNTED MOTION SENSOR/SWITC WALL MOUNTED LUMINAIRE NUMBER OR LETTER WALL MOUNTED MOTION SENSOR/SWITCH WALL MOUNTED LUMINAIF DENOTES TYPE. SEE WALL MOUNTED MOTION SENSOR/SWITCH WITH 0-10V DIMMING ORRESPONDING TRACK LUMINAIRE LOW VOLTAGE LIGHTING CONTROL SWITCH MARK EMERGENCY BATTERY PACK WALL MOUNTED PHOTOCELL IN LUMINAIRE CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW CEILING MOUNTED PHOTOCEL SCHEDULE WALL OR END MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW POLE MOUNTED LUMINAIRE BOLLARD LUMINAIRE FIRE ALARM FIRE ALARM SMOKE DETE IRE ALARM HORN & STROBE COMBINATION FIRE ALARM MINI-HORN & STROBE COMBINATION FIRE ALARM HEAT DETECTOR CEILING FIRE ALARM STROBE DUCT MOUNTED SMOKE DETECTO WALL FIRE ALARM STROBE FIRE ALARM MANUAL PULL STATIO FIRE SPRINKLER VALVE TAMPER SWI CEILING FIRE ALARM HORN & STROBE COMBINATION CEILING FIRE ALARM SPEAKER & STROBE COMBINATION FIRE SPRINKLER FLOW SWITCH WALL FIRE ALARM SPEAKER & STROBE COMBINATION FIRE ALARM CONTROL PANEL CEILING FIRE ALARM SPEAKER FIRE ALARM ANNUNCIATOR PANE ⊢■ FIRE ALARM MAGNETIC DOOR HOLDER WALL FIRE ALARM SPEAKER POWER LOOR BOX - COMBINATION POWER & DA JPLEX RECEPTAC G" DENOTES GFCI TYP POKE-THRU - COMBINATION POWER & DATA >" DENOTES ISOLATED GROUND TY FLOOR MOUNTED DUPLEX RECEPTACLE H" DENOTES HOSPITAL GRADE TYPE MOTOR ("#" DENOTES HORSEPOWER RATING "TR" DENOTES TAMPER RESISTANT TYPE DISCONNECT SWITCH U" DENOTES UNIVERSAL SERIAL BUS (USB) TYP THERMAL ELEMENT SWITCH DOUBLE SHADING DENOTES RED DEVICE SWITCH & FUSE SINGLE SHADING DENOTES SPLIT WIRED DEVICE SWITCH & FUSTAT HORIZONTAL MOUNTED DUPLEX RECEPTACLE MAGNETIC MOTOR STARTER CEILING MOUNTED DUPLEX RECEPTACLE COMBINATION MAGNETIC STARTER/DISCONNEC DOUBLE DUPLEX RECEPTACLE MOTOR CONTROL PUSHBUTTON STATION SINGLE RECEPTACLE DRYER RECEPTACLE NEMA 14-30 (125/250V 30A) MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATE RANGE RECEPTACLE NEMA 14-50 (125/250V 50A) "W" DENOTES WELDER RECEPTACLE NEMA 16-30 (480V 30A, #10 WIRE SPECIAL PURPOSE RECEPTACLE (NEMA CONFIG. AS NO COMMUNICATION ALL PHONE OUTLET ("GT" INDICATES GAI-TRON ICS CEILING SPEAF WALL COMMUNICATIONS DATA OUTLE GAI-TRONICS WALL SPEAKER CEILING COMMUNICATIONS DATA OUT SOUND REINFORCEMENT WALL SPEAKER CEILING WIRELESS ACCESS POINT OUTL SOUND REINFORCEMENT CEILING SPEAKER TELEVISION/VIDEO OUTLET WALL MICROPHONE OUTLET CEILING MICROPHONE OUTLET WALL CLOCK GAI-TRONICS VOLUME CONTRO SECURITY EILING MOUNTED SECURITY MOTION DETEC EO SURVEILLANCE CAMERA (# INDICATES " WALL MOUNTED SECURITY MOTION DETECTOR SECURITY CARD READER WALL MOUNTED REQUEST TO EXIT MOTION SENSOR ELECTRIC STRIKE DOOR POSITION SWITCH ELECTRONIC LATCH RETRACTION MAGNETIC LOCK INTRUSION KEYPAD GENERAL

DISTRIBUTION PANEL SWITCHBOARD OR MOTOR CONTROL CENTER JUNCTION BO CABINET, ENCLOSURE, OR CONTROL PANEL, TYPE INDICATED ON PLANS CONDUIT SEAL BRANCH CIRCUIT - EXPOSED CIRCUIT DOWN BRANCH CIRCUIT CONCEALED IN CEILING OR WAI 🤞 CIRCUIT UP BRANCH CIRCUIT CONCEALED IN FLOOR CONDUIT STUB-OU BRANCH CIRCUIT - CLASS TWO WIRING CIRCUIT BREAK HOMERUN TO PANEL (QUANTITY OF ARROWS INDICATES QUANTITY OF CIRCUITS) SPECIAL PURPOSE HOMERUN AS INDICATED PUSH BUTTON BRANCH CIRCUIT CONTROLLED DEVICE - VIA RELA SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF THERMOSTAT NEMA TYPE 3R OR EQUIVALENT CONDUIT / CONDUIT SLEEVE (SIZE INDICATED ON PLANS) SUBSCRIPT "RT" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING NEMA TYPE 3R OR EQUIVALENT SUBSCRIPT "R" ADDED TO ANY SYMBOL INDICATES RELOCATED SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES WHERE (TYP) IS USED ON PLANS INDICATES A TYPICAL NOTE OR CONDITION PEDESTAL MOUNTED SUBSCRIPT "DL" ADDED TO ANY SYMBOL INDICATES DAMP LOCATION SUBSCRIPT "EP" APPLIED TO ANY SYMBOL INDICATES EXPLOSION PROOF SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED CLASS, GROUP & DIVISION AS NOTED SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGH

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- 4. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE, LIGHTING, AND EQUIPMENT BRANCH CIRCUITS.
- 5. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

KEYNOTES

- E001 PROVIDE 1"CONDUIT FROM FIRE ALARM PANEL WITH FIRE ALARM WIRING TO TAMPER SWITCH ON POST INDICATOR VALVE . USE RGS CONDUIT ABOVE GRADE. E002 UNDERGROUND CONDUIT FOR TRANSFORMER PRIMARY FEEDERS. COORDINATE LOCATION WITH OPPD. SEE ELECTRICAL RISER DIAGRAM.
- E003 PROVIDE (3) 4" UNDERGROUND CONDUITS FOR TELECOMMUNICATIONS FROM TELECOMMUNICATION ROOM TO NEW IN-GRADE PULLBOX. PROVIDE (1) CONDUIT WITH
- MAXCELL 4" 3-CELL DETECTABLE INNERDUCT. SEE TELECOMMUNICATIÓNS RISER DIAGRAM. E004 UNDERGROUND CONDUIT TRANSFORMER SECONDARY FEEDERS. COORDINATE LOCATION WITH OPPD SEE ELECTRICAL RISER DIAGRAM.
- E006 EXISTING UNDERGROUND DUCTBANK BASED ON LATEST INFORMATION AVAILABLE AT TIME OF DESIGN. COORDINATE EXACT LOCATION WITH EXISTING SITE CONDITIONS. E008 EXISTING GATE CARD READER LOCATION. PROVIDE NEW CABLES TO EXISTING LOCATION THROUGH EXISTING UNDERGROUND CONDUIT AND HANDHOLES. PROVIDE TWO NEW CARD READERS (1) IN, (1) OUT. PROGRAM CARD READER INTO NEW ACCESS CONTOL SYSTEM HEADEND INSIDE BUILDING. MOUNT CARD READER TO EXISTING FENCE. NEW CONDUITS SHALL BE RGS TO PROTECT CABLING INSTALLATION.

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BCDM architects

PROJECT TEAM ARCHITECTURE + INTERIORS BCDM ARCHITECTS 1015 N 98th St #300, Omaha, NE 68114 CIVIL ENGINEER LAMP RYNEARSON 14710 W. Dodge Road, Suite 100 Omaha, NE 68114 STRUCTURAL ENGINEER BCDM 1015 N 98th St #300, Omaha, NE 68114 MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164 EORGE M. MORRISSEY E-8874 # Description Date

TRAINING FACILITY PHASE 2

7264 L ROAD, NEBRASKA CITY, NE 68410

OMAHA PUBLIC POWER DISTRICT

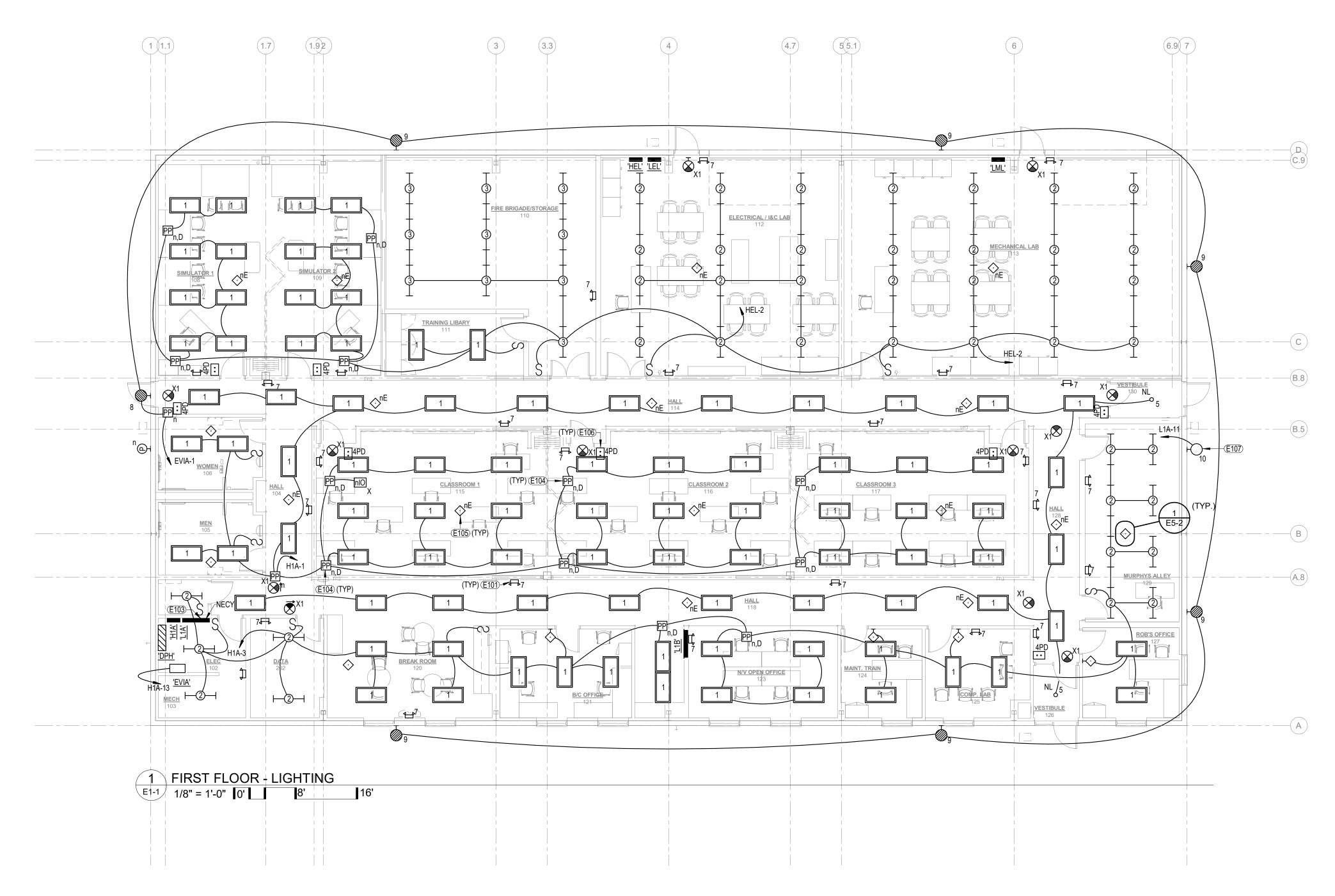
444 SOUTH 16TH STREET OMAHA, NE 68102

SITE UTILITY PLAN -ELECTRICAL



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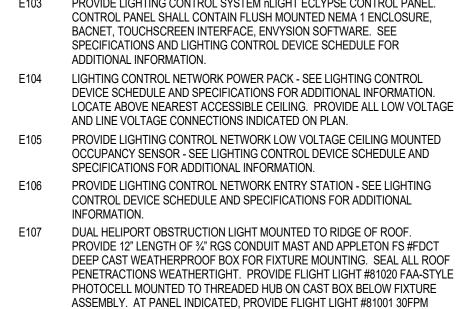
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KEYNOTES

E101 CONNECT BATTERY LEADS AHEAD OF LOCAL SWITCHING. CONNECT TO LIGHTING CIRCUIT SERVING SPACE. E103 PROVIDE LIGHTING CONTROL SYSTEM nLIGHT ECLYPSE CONTROL PANEL.

INSTRUCTIONS.



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FLASHER AND #81010-B LAMP ALARM WITH INTEGRAL BUZZER FOR REMOTE DETECTION OF FAILED LAMP(S). CONNECT OBSTRUCTION LIGHTING AND ACCESSORY CONTROLS PER MANUFACTURER'S INSTALLATION

BCDM architects

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FLOOR PLAN -LIGHTING

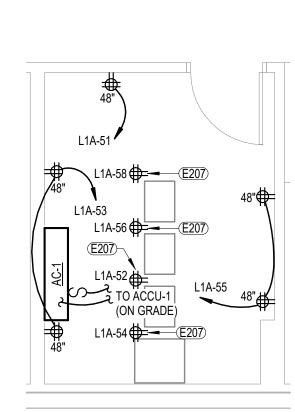


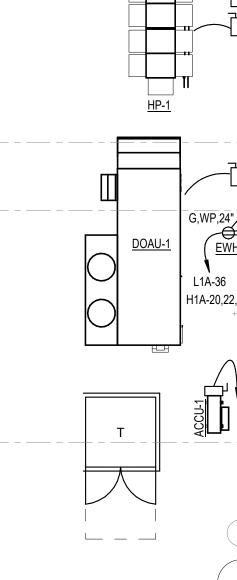
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3 ENLARGED DATA ROOM 202 - POWER E2-1 1/4" = 1'-0" 0' 8' 16'

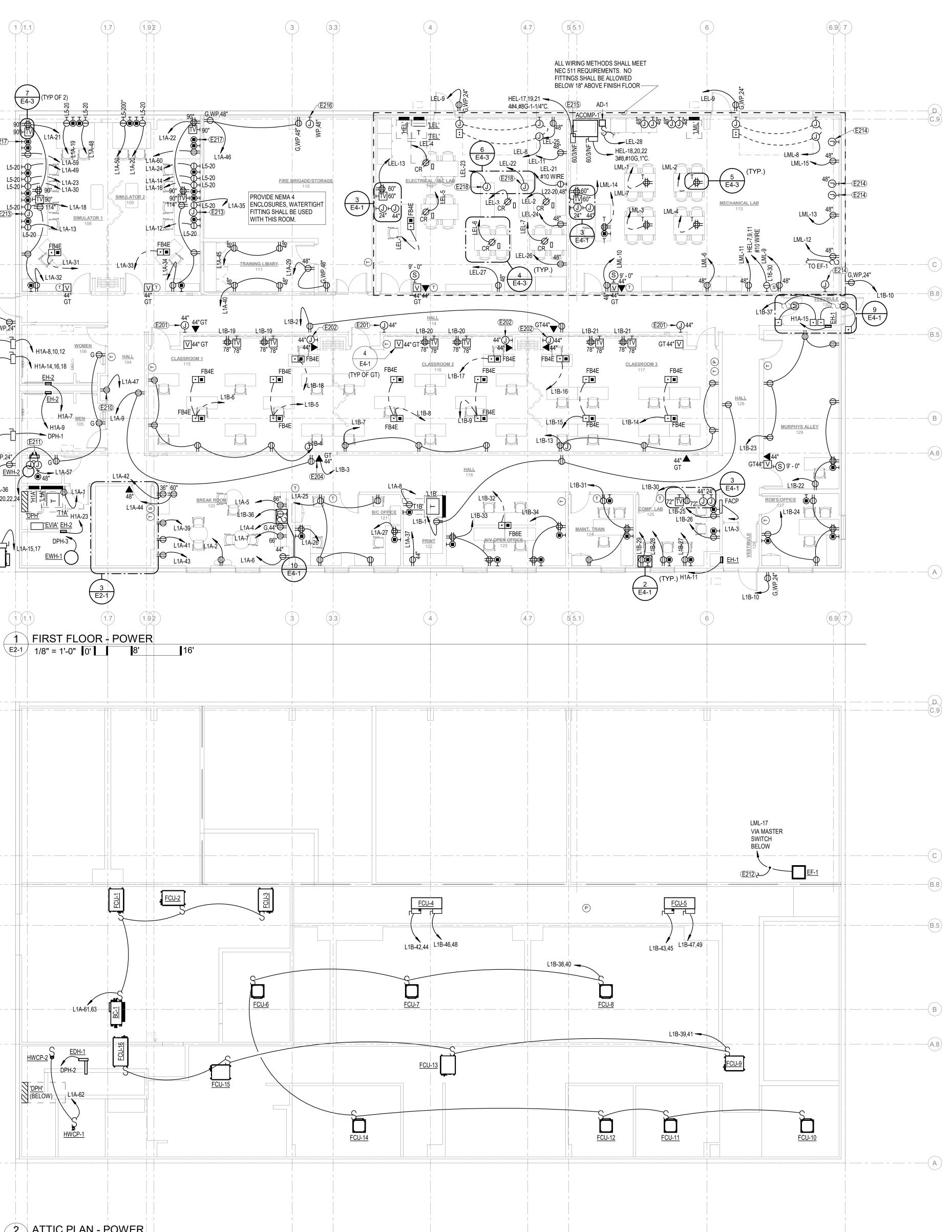




G.WP.2

L1A-10





GENERAL NOTE: 1. ELECTRICAL CONTRACTOR SHALL INVENTORY ALL OWNER 1. ELECTRICAL CONTRACTOR SHALL OW FURNISHED EQUIPMENT SCHEDULED FOR USE IN LAB AREAS. FIELD VERIFY ALL ELECTRICAL DETAILS ON EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN, INCLUDING BUT NOT LIMITED TO: OVER CURRENT PROTECTION, CONDUCTOR SIZE, CONDUIT SIZE, LOCAL DISCONNECTING MEANS, HARD-WIRED OR CORD AND PLUG CONNECTIONS, REQUIRED RECEPTACLE CONFIGURATIONS AND FINAL EQUIPMENT LOCATIONS. MAKE ALL ADJUSTMENTS REQUIRED FOR

FINAL CONNECTIONS TO EQUIPMENT.

<u>KEYNOTES</u>

E201	PROVIDE 2-GANG JUNCTION BOX WITH 2-GANG RING WITH 3/4"C. TO ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END. PROVIDE BLANK COVER PLATE FOR FUTURE INSTALLATION OF ROOM SCHEDULER.
E202	PROVIDE 2-GANG JUNCTION BOX WITH 2-GANG RING WITH 1"C. TO ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END.
E204	PROVIDE ELECTRICAL CONNECTION TO FIRST GAI-TRONICS HANDSET IN NEW BUILDING. COORDINATE REQUIREMENTS WITH SYSTEM INSTALLER AND MANUFACTURER'S RECOMMENDATIONS.
E207	INSTALL RECEPTACLE ON OVERHEAD BASKET TRAY. COORDINATE RECEPTACLE LOCATION WITH VERTICAL CABLE MANAGERS.
E210	LOCATE RECEPTACLE FOR WATER COOLER UNIT SO THAT CORD AND PLUG ARE CONCEALED INSIDE OR BEHIND UNIT. PROVIDE 20/1 GFCI TYPE CIRCUIT BREAKER.
E211	PROVIDE ELECTRICAL CONNECTION TO TEMPERATURE AND VRF CONTROL PANELS. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR.
E212	PROVIDE ELECTRICAL CONNECTION TO VOLTAGE MATCHED MOTORIZED DAMPER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
E213	PROVIDE 2-GANG DEEP JUNCTION BOX WITH 1-GANG RING WITH GROMMETTED OPENING AND 1-1/4"C. TO ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END.
E214	PROVIDE ROUGH-IN FOR OWNER PROVIDED EQUIPMENT. PROVIDE 1-1/2" CONDUIT BACK TO PANEL "HEL".
E215	PROVIDE CONDUIT MAST AND WEATHERHEAD FOR CONNECTION TO 4 BUSS OVERHEAD CRANE. VERIFY REQUIREMENTS WITH MANUFACTURER.
E216	PROVIDE ROUGH-IN FOR OWNER PROVIDED EQUIPMENT. PROVIDE 1-1/2" CONDUIT BACK TO PANEL "H1A".
E217	PROVIDE 2-GANG DEEP JUNCTION BOX WITH 2-GANG RING WITH 1-1/4"C. TO ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END.
E218	PROVIDE RECEPTCALE AT DECK AND CORD DROP TO OWNER EQUIPMENT. VERIFY REQUIREMENTS WITH OWNER.

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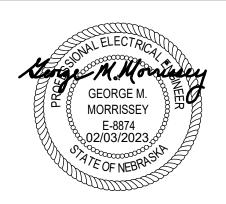
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MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164





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OMAHA PUBLIC POWER DISTRICT

444 SOUTH 16TH STREET OMAHA, NE 68102

FLOOR PLANS -POWER

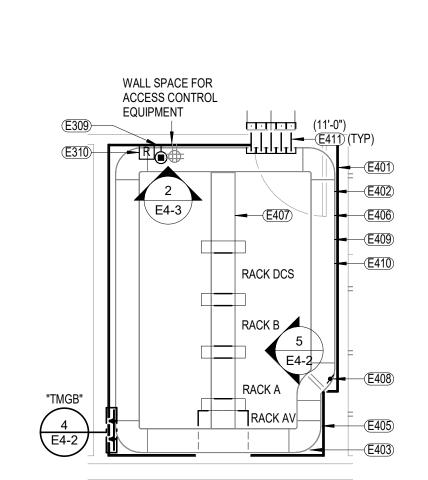


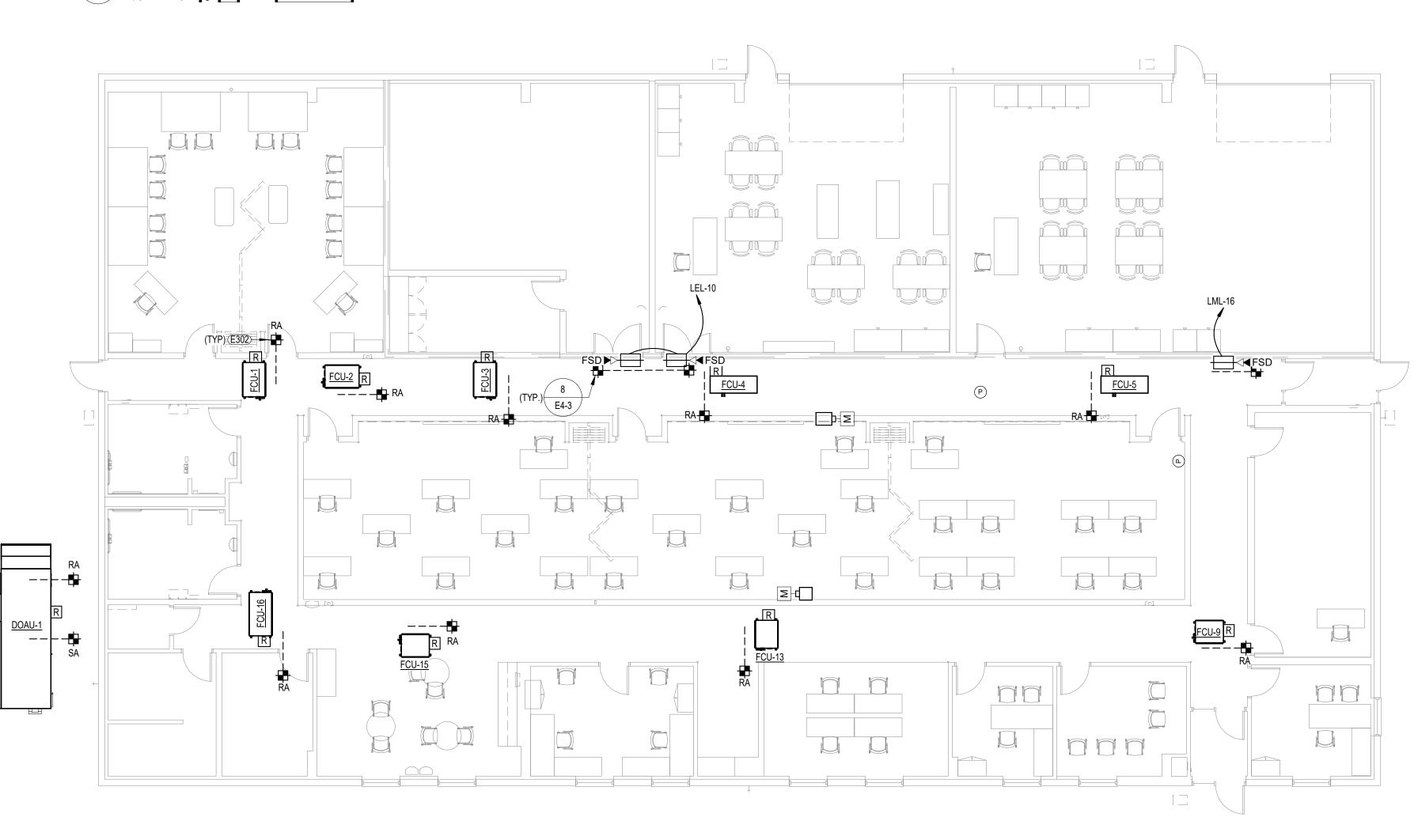
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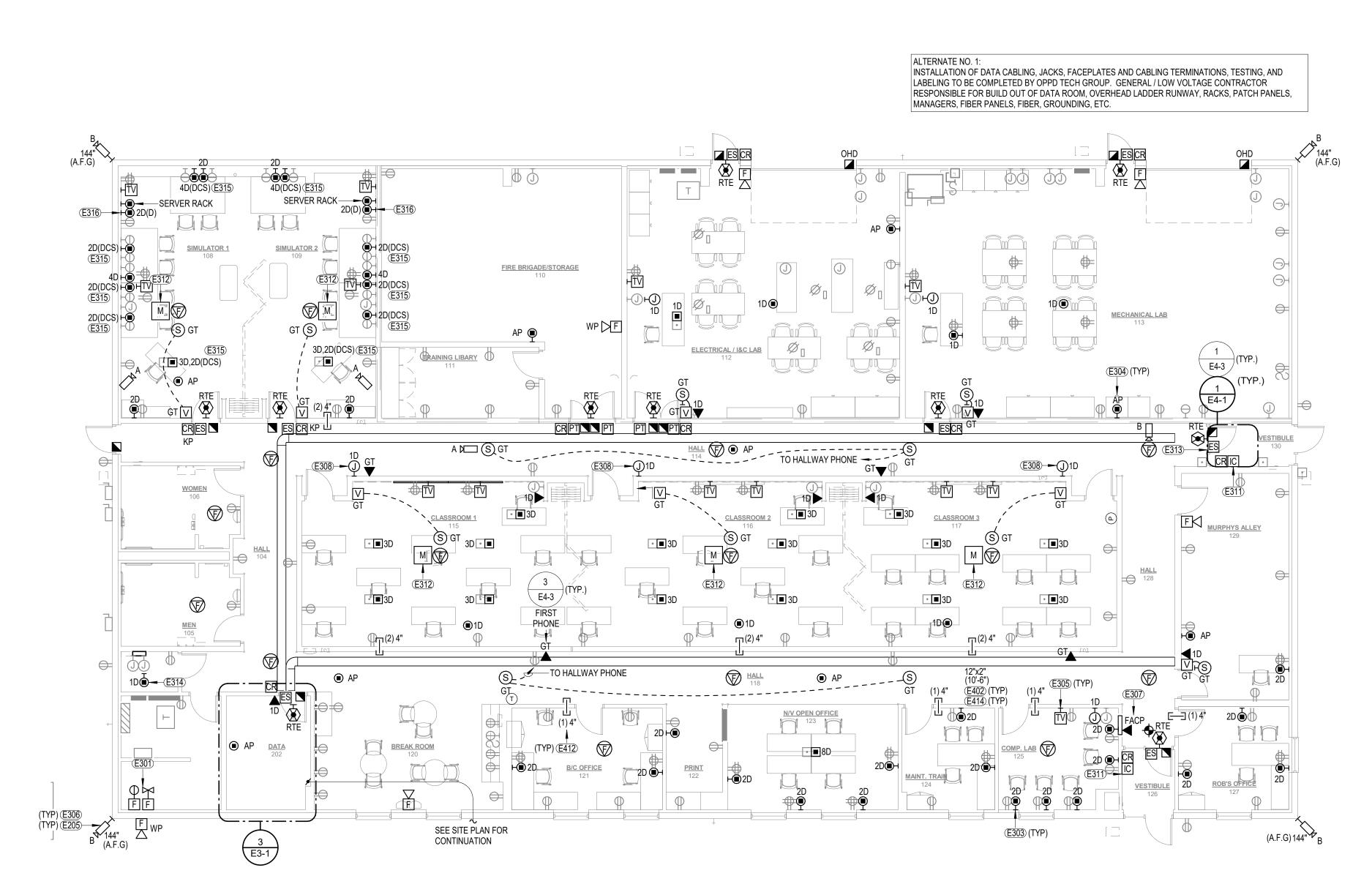
3 ENLARGED DATA ROOM 202 - SYSTEMS E3-1 1/4" = 1'-0" 0' 8' 16'





 1
 FIRST FLOOR - SPECIAL SYSTEMS

 E3-1
 1/8" = 1'-0"
 0'
 8'
 16'



<u>KEYNOTES</u>

E205	PROVIDE SINGLE GANG JUNCTION BOX WITH 1-GAN ABOVE NEAREST ACCESSIBLE CEILING OR OVERHE. INSULATED BUSHING ON CONDUIT END.
E301	FIRE ALARM CONTRACTOR TO PROVIDE MONITORIN SWITCHES AT FIRE ALARM RISER. VERIFY LOCATIO SWITCHES REQUIRED WITH FIRE SPRINKLER CONTR ROUGH-IN.
E302	DUCT SMOKE DETECTOR(S) AND RELAY. PROVIDE I DETECTOR, FAN SHUTDOWN RELAY, REMOTE INDIC CONNECTIONS FOR SHUT-DOWN, AND CONNECTION CONTROL PANEL. RETURN AIR (RA), SUPPLY AIR (S/ SHALL BE FROM DUCT DETECTOR ALARM. LOCATE NEAREST MECHANICAL / CUSTODIAL ROOM.
E303	PROVIDE CATEGORY DATA CABLE(S) TO EACH OUTLINDICATED ON DRAWINGS.
E304	PROVIDE (1) CATEGORY DATA CABLE TO EACH WIRE PROVIDE 30' SERVICE LOOP. TERMINATE WITH PLET MOUNTED ABOVE ACCESSIBLE CEILING OR COILED POSSIBLE IN EXPOSED STRUCTURE, SECURED WITH PROVIDE 3' PATCH CORD FOR CONNECTION TO OWN WIRELESS ACCESS POINT.
E305 E306	PROVIDE (1) CATEGORY DATA CABLE FOR EACH TEL PROVIDE (1) CATEGORY DATA CABLE FOR CONNECT CAMERA. PROVIDE 20' SERVICE LOOP. TERMINATE SURFACE BOX MOUNTED ABOVE ACCESSIBLE CEILI HIGH AS POSSIBLE IN EXPOSED STRUCTURE, SECU STRAPS. PROVIDE 3' PATCH CORD FOR CONNECTION (CAMERA BY DIVISION 28 CONTRACTOR).
E307	PROVIDE (2) CATEGORY DATA CABLES FOR CONNECTERMINATE WITH MODULAR JACK IN FACP. EXTEND SERVICE PROVIDER DEMARC, COIL CABLES AND LEA
E308	PROVIDE (1) CATEGORY DATA CABLE FOR CONNECT SCHEDULER. TERMINATE WITH MODULAR JACK IN E PATCH CORD FOR CONNECTION TO FUTURE EQUIP
E309	PROVIDE (1) CATEGORY DATA CABLE TO ACCESS CO TERMINATE WITH SURFACE BOX MOUNTED IN CONT PATCH CORD FOR CONNECTION TO CONTROL PANE
E310	PROVIDE CONNECTION BETWEEN FIRE ALARM RELA
E311	INTERCOM STATION LOCATION, AVIGILON # H4. PRO CABLE TO STATION. TERMINATE WITH MODULAR JA 1' PATCH CORD FOR CONNECTION TO STATION. ST/ PROGRAMMED TO RING OPPD SECURITY CENTRAL INTERCOM PROVIDED AND INSTALLED BY DIVISION 3
E312	PROVIDE (1) CATEGORY DATA CABLE FOR CONNECT TERMINATE WITH PLENUM RATED SURFACE BOX MO ACCESSIBLE CEILING. PROVIDE 3' PATCH CORD FOI EQUIPMENT (EQUIPMENT BY DIVISION 274134 CONT
E313	PROVIDE ACCESS CONTROL MODULE INTERFACE TO DOOR OPERATOR.
E314	PROVIDE (1) CATEGORY DATA CABLE FOR CONNECT CONTROL PANEL. TERMINATE TO MODULAR JACK M PANEL. PROVIDE 1' PATCH CORD FOR CONNECTION FINAL LOCATION WITH MECHANICAL CONTRACTOR.
E315	PROVIDE CATEGORY 5 DATA CABLES POINT TO POIN LOCATION TO OUTLET LABELED "SERVER RACK". PI ON EACH END. DATA CABLE AND JACKS SHALL BE F SPECIFICATIONS.
E316	PROVIDE CATEGORY 6 DATA CABLES FROM OUTLET 'DCS'. PROVIDE RED MODULAR JACKS ON EACH EN
E401	PROVIDE COMMUNICATIONS BACKBOARD, 3/4" A/C C SIDES PAINTED WITH 2 COATS OF WHITE FIRE RATE
E402 E403	PROVIDE 12" HORIZONTAL BASKET TRAY, B-LINE#: F PROVIDE WALL ANGLE SUPPORT KIT FOR EACH INST TERMINATES AT WALL, B-LINE # FTA9WTK, (TYP)
E405	PROVIDE BASKET TRAY CORNER RADIUS, B-LINE #:
E406	PROVIDE 12" TRIANGULAR SUPPORT BRACKET THRU FOR MOUNTING RUNWAY TO WALL, B-LINE#: FTB120
E407	PROVIDE (1) LADDER RUNWAY TRAPEZE SUPPORT E #: FTB12CT. PROVIDE INDIVIDUAL SUPPORTS FOR E (TYP)
E408	COMMUNICATIONS SERVICE ENTRANCE CONDUITS, CONTRACTOR. STUB CONDUITS 6" ABOVE FLOOR. BUSHINGS ON CONDUIT ENDS.
E409	BOND BASKET TRAY TO COMMUNICATIONS GROUND (TYP)
E410	BOND EACH SECTION OF BASKET TRAY NOT BONDE REMOVE POWDER COAT UNDER BONDING CONNEC
E411	PROVIDE STI EZ PATH (OR EQUAL BY HILTI), MECHAI FOR WALL PENETRATIONS. PROVIDE QUANTITY ANI ADJACENT TO KEYNOTE, (TYP)
E412	PROVIDE STI EZ PATH SMOKE AND ACOUSTIC SLEEV FOR WALL PENETRATIONS. PROVIDE QUANTITY AND ADJACENT TO KEYNOTE, (TYP)
F414	PROVIDE CONTINUOUS OVERHEAD BASKET TRAY D

MEI PROJECT NO: 20297

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NG RING AND 3/4"C. TO EAD PATHWAY. PROVIDE

NG OF FLOW AND TAMPER ON AND QUANTITY OF FRACTOR PRIOR TO

DUCT MOUNTED SMOKE ICATOR, CONTROLS ON TO FIRE ALARM (SA). SHUT DOWN OF UNIT E REMOTE INDICATOR IN

ITLET, QUANTITY OF CABLES RELESS ACCESS POINT. LENUM RATED SURFACE BOX D NEATLY AS HIGH AS

ITH VELCRO STRAPS. WNER-FURNISHED ELEVISION LOCATION. CTION TO POE SECURITY E WITH PLENUM RATED

LING OR COILED NEATLY AS JRED WITH VELCRO FION TO SECURITY CAMERA ECTION TO FACP.

ID CABLES TO ABOVE EAVE UN-TERMINATED. CTION TO FUTURE ROOM N BACKBOX. PROVIDE 1' CONTROL PANEL. ITROL PANEL. PROVIDE 1'

LAY AND ACCESS CONTROL

ROVIDE (1) CATEGORY DATA JACK IN BACKBOX. PROVIDE TATION SHALL BE _ STATION, 531-226-3700. 282300 CONTRACTOR. CTION TO AV EQUIPMENT. MOUNTED ABOVE OR CONNECTION TO AV TRACTOR). TO ACCOMMODATE ADA

CTION TO TEMPERATURE MOUNTED INSIDE CONTROL ON TO PANEL. COORDINATE

DINT FROM WORKSTATION PROVIDE MODULAR JACKS RED IN COLOR, SEE

T LOCATION TO DATA RACK GRADE A SIDE OUT, ALL ED PAINT, (TYP) FT2X12, (TYP)

STANCE BASKET TRAY : FTA4RS, (TYP) ROUGHOUT ENTIRE ROOM 2CS, (TYP)

BRACKET EVERY 5', B-LINE EACH END OF BRACKET,

S, BY ELECTRICAL ND BAR WITH #6 AWG THHN,

DED WITH A FACTORY WELD, ECTION, (TYP) HANICAL FIRESTOP DEVICE AND SIZE INDICATED

EEVE (OR EQUAL BY HILTI), AND SIZE INDICATED

E414 PROVIDE CONTINUOUS OVERHEAD BASKET TRAY DIVIDER FOR SEPARATION OF STRUCTURED CABLING AND SECURITY CABLING IN PATHWAY.

BCDM architects

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TRAINING FACILITY PHASE 2

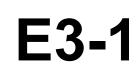
Description Date

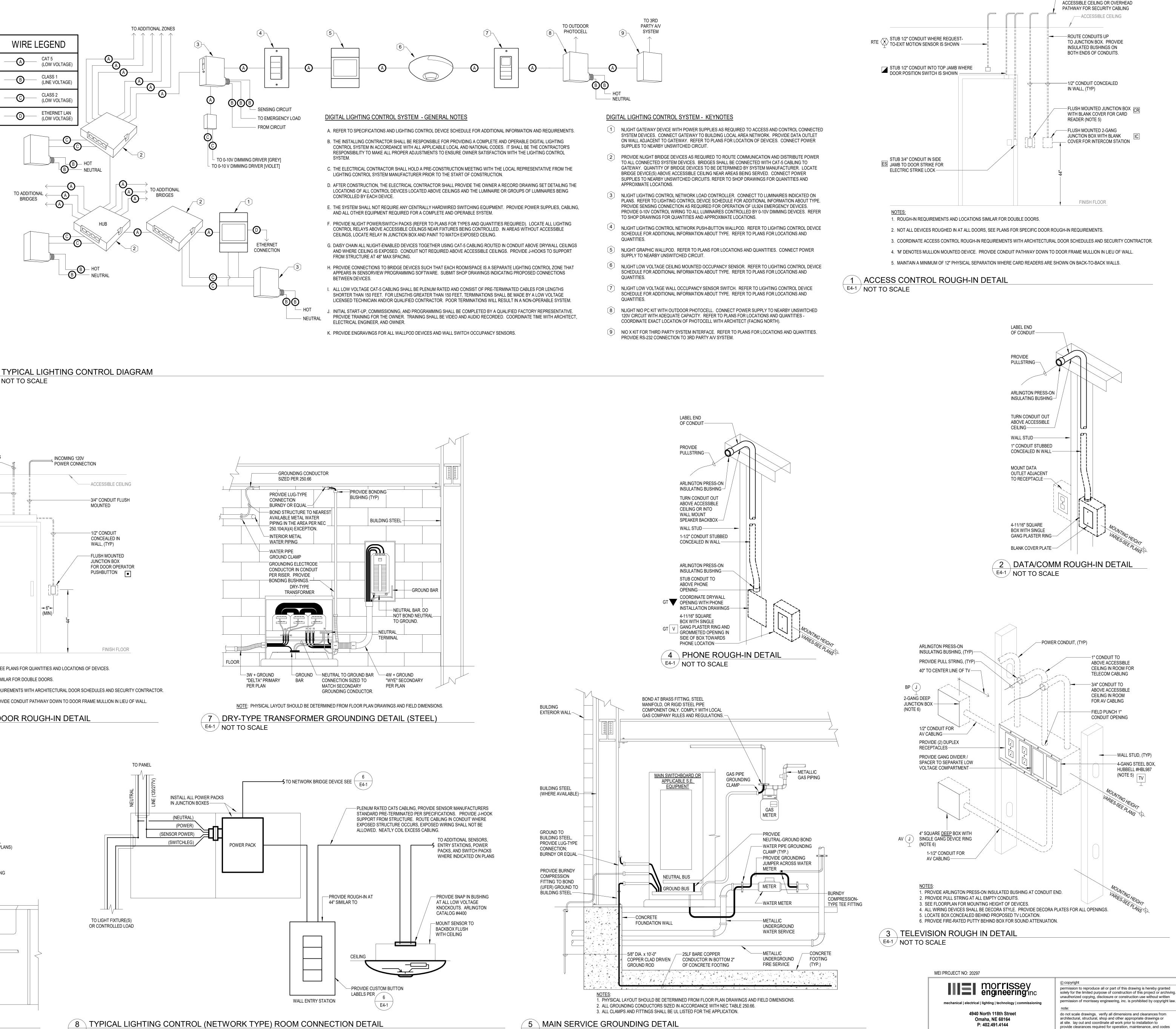
7264 L ROAD, NEBRASKA CITY, NE 68410

OMAHA PUBLIC POWER DISTRICT

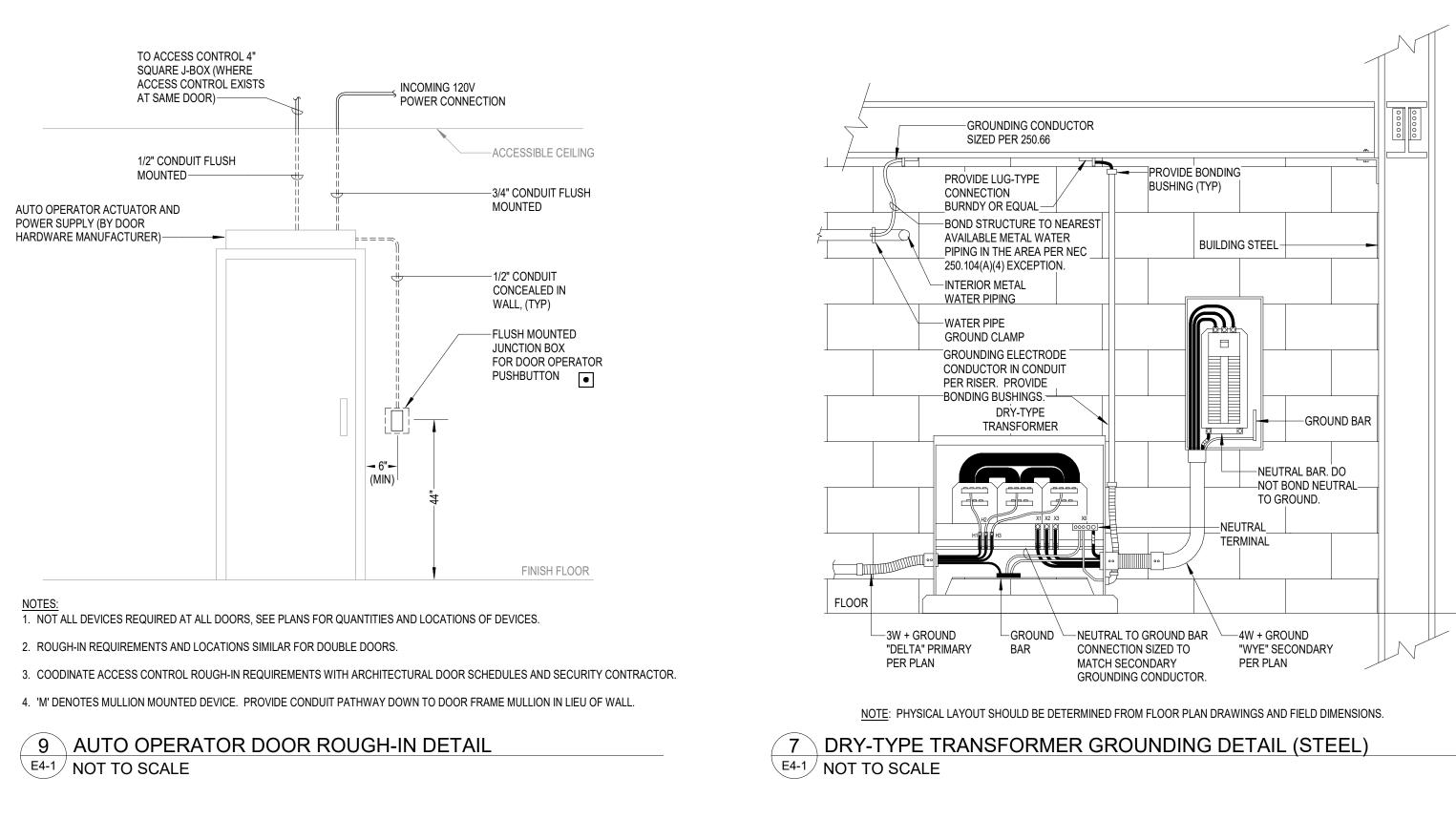
444 SOUTH 16TH STREET OMAHA, NE 68102

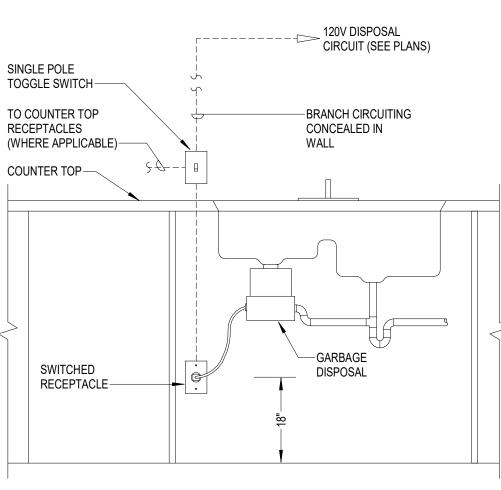
FLOOR PLANS -SPECIAL SYSTEMS





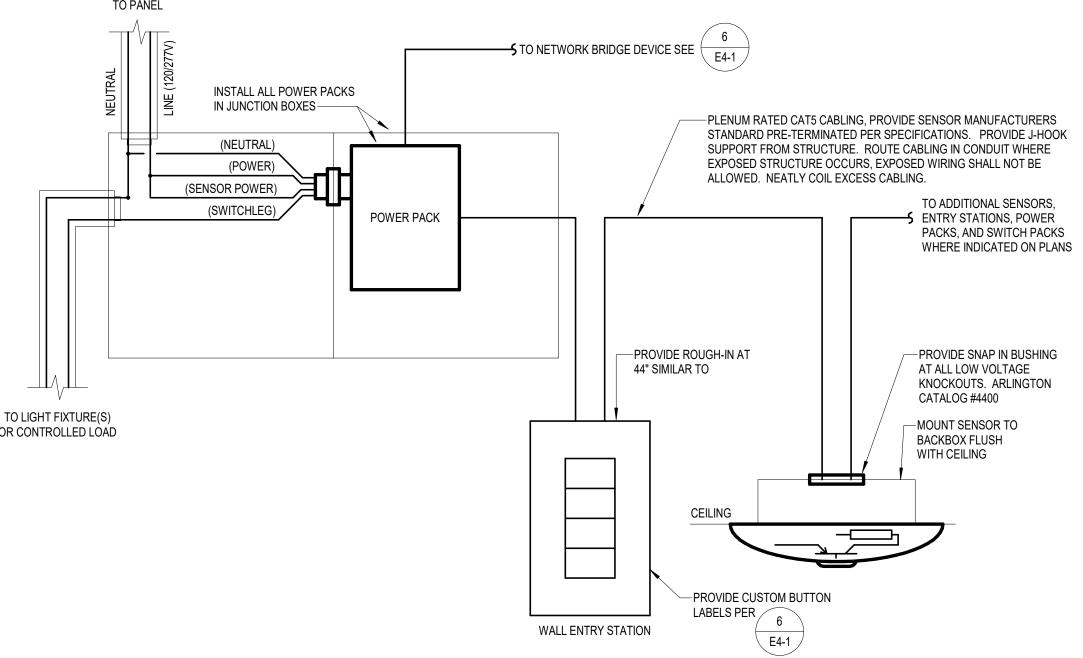
6 TYPICAL LIGHTING CONTROL DIAGRAM E4-1 NOT TO SCALE



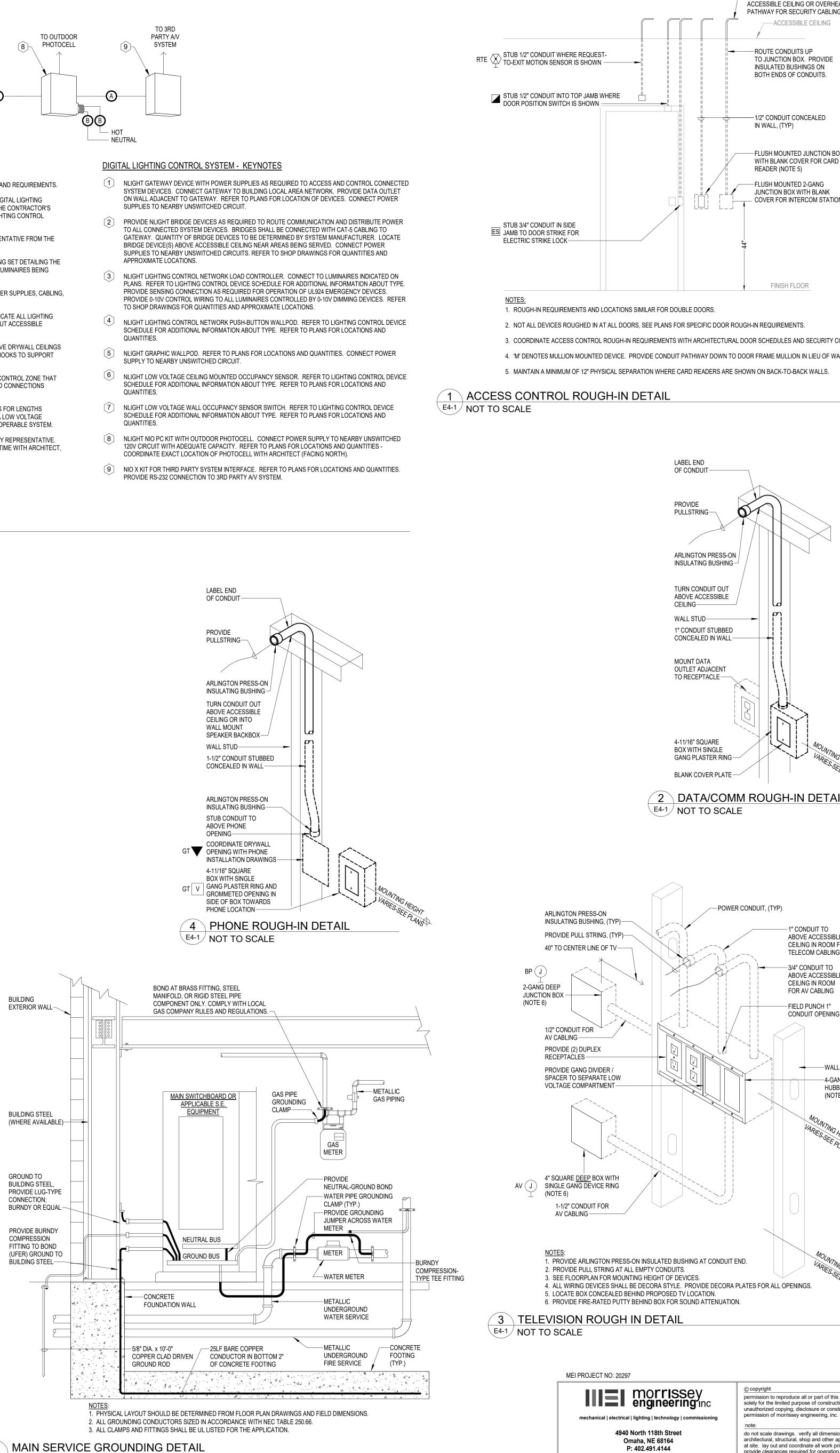


10 DISPOSAL CONNECTION DETAIL

E4-1 NOT TO SCALE



8 TYPICAL LIGHTING CONTROL (NETWORK TYPE) ROOM CONNECTION DETAIL E4-1 NOT TO SCALE



KE4-1 / NOT TO SCALE

-FOR EXPOSED CEILING INSTALLATIONS,

EXTEND CONDUITS TO NEAREST

-WALL STUD, (TYP) -4-GANG STEEL BOX, HUBBELL #HBL987 (NOTE 5) TV

and verify non-interference with other work. do not fabricate prior

to verification of clearance for all trades.

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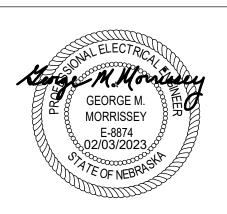
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MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164



Date # Description



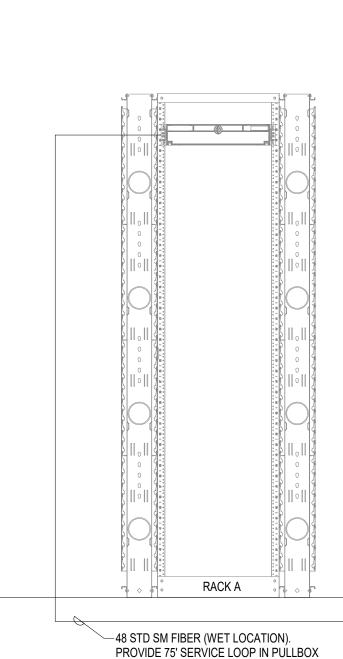
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ELECTRICAL DETAILS





FIRST FLOOR

PROVIDE 48 STRAND FIBER SPLICE TO EXISTING 144 STD SM FIBER INSTALLATION PROVIDED BY OWNER AS PART OF SEPARATE PROJECT.-

APPROX. TOTAL LENGTH = 350' (INCLUDES SERVICE LOOP)

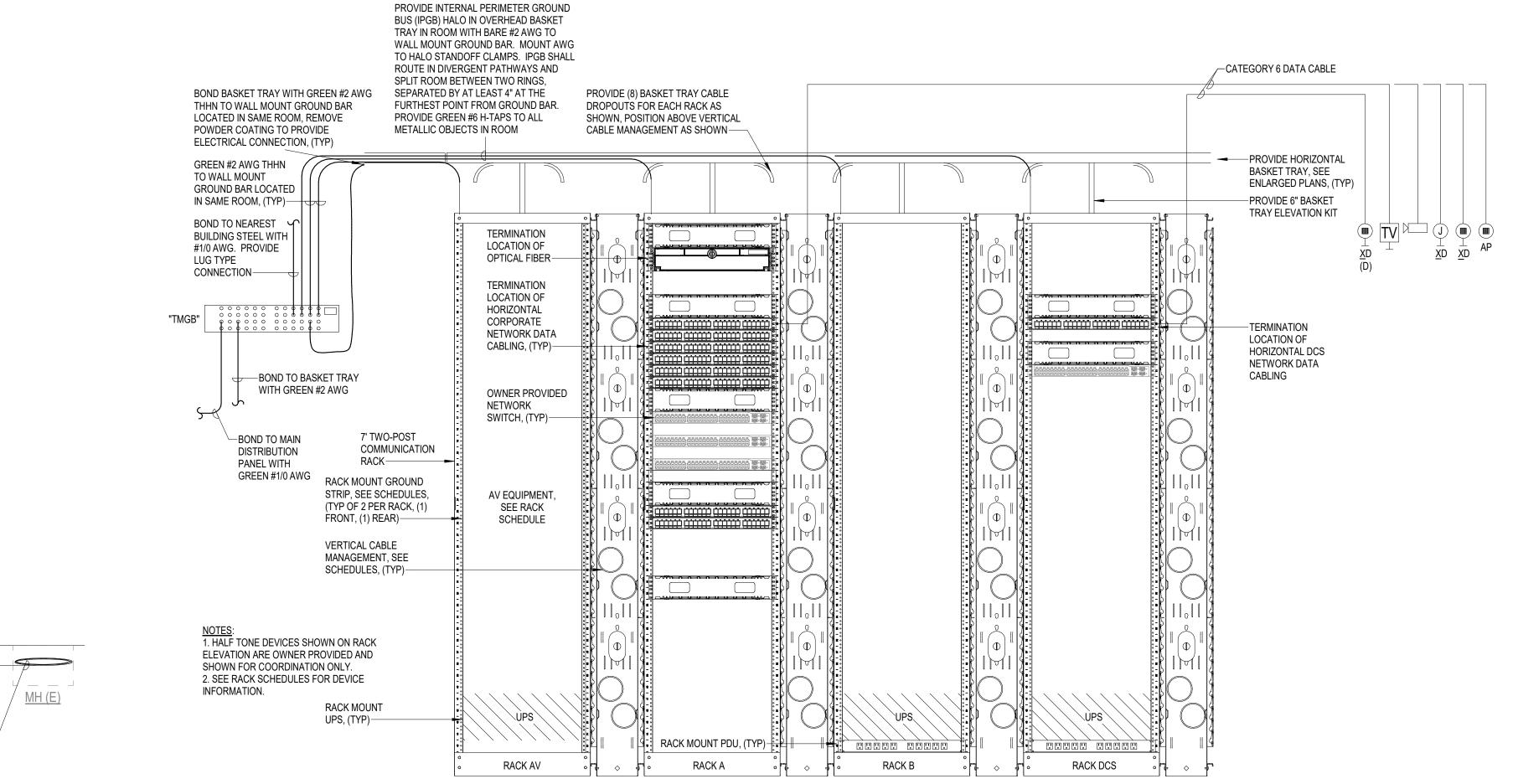
6 TELECOM CONNECTIVITY SCHEMATIC E4-2 NOT TO SCALE

		ACK AV	R	
	RACK RU	DESCRIPTION	PART NUMBER	RACK RU
P	1	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	1
	2	RACK MOUNT CODEC, 2RU (SIM 1)	CISCO	2
CC	3		-	3
	4	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	4
	5	RACK MOUNT CODEC, 2RU (SIM 2)	CISCO	5
	6		-	6
COMM	7	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	7
	8	MATRIX SWITCHER, 3RU (SIM 1 / SIM 2)	EXTRON	8
COMMSC	9		-	9
COMMSC	10		-	10
COMMSC	11	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	11
COMMSC	12	RACK MOUNT CODEC, 2RU (CLASS 1)	CISCO	12
COMMSC	13		-	13
COMMSC	14	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	14
COMM	15	RACK MOUNT CODEC, 2RU (CLASS 2)	CISCO	15
	16		-	16
	17	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	17
	18	RACK MOUNT CODEC, 2RU (CLASS 3)	CISCO	18
	19		-	19
	20	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	20
	21	RACK MOUNT SHELF, 1RU (RECEIVERS/TRANSMITTERS)	MIDDLE ATLANTIC, U1V	21
PAN	22	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	22
	23	RACK MOUNT PROCESSORS, 1RU	EXTRON (x2)	23
	24	RACK MOUNT SHELF, 1RU (DIST. HUB)	MIDDLE ATLANTIC, U1V	24
COMM	25	MATRIX SWITCHER, 3RU (CLASSROOMS)	EXTRON	25
	26		-	26
COMMSC	27		-	27
COMMSC	28	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	28
	29	AUDIO PROCESSOR, 1RU	EXTRON	29
	30	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	30
	31	WIRELESS RECEIVER, 1RU	SHURE	31
	32	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	32
COMM	33	RACK MOUNT AMPLIFIERS, 1RU	EXTRON (x2)	33
	34	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	34
	35	RACK MOUNT BLANK PANEL, 1RU	MIDDLE ATLANTIC, EB1	35
	36	RACK MOUNT BLANK PANEL, 2RU	MIDDLE ATLANTIC, EB2	36
	37		-	37
	38	RACK MOUNT BLANK PANEL, 2RU	MIDDLE ATLANTIC, EB2	38
	39		-	39
	40	RACK MOUNT VENT PANEL, 1RU	MIDDLE ATLANTIC, EVT1	40
	41	RACK MOUNT UPS, 4RU	APC, SMX2000LVNC	41
	42		-	42
	43		-	43

Ν	OTE:
1	PROVIDE AND INS

	COMMUNICATIONS RACK AV					
QUAN.	PART NUMBER	DESCRIPTION				
1	MIDDLE ATLANTIC, ERK-4425LRD	ENCLOSED AV RACK W/O REAR DOOR				
2	PANDUIT, RGS134-1Y	RACK MOUNT VERTICAL GROUND STRIP				
1	APC, AP8930	RACK MOUNT VERTICAL POWER STRIP				

	QUAN.
C	1
COM	2
F	2





RACK A

PART NUMBER	DESCRIPTION			
PANDUIT, CMUT19	RACK MOUNT TOP TROUGH, 2RU			
-				
CORNING, CCH-02U	RACK MOUNT OPTICAL FIBER ENCLOSURE, 2RU			
-				
TBD				
TBD				
COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU			
-				
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU			
-				
CISCO	OWNER PROVIDED NETWORK SWITCH, 1RU			
TBD				
CISCO	OWNER PROVIDED NETWORK SWITCH, 1RU			
TBD				
CISCO	OWNER PROVIDED NETWORK SWITCH, 1RU			
PANDUIT, SRM19CMV3	RACK MOUNT SHELF, 3RU			
-				
-				
COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU			
-				
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU			
TBD				
COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU			
-				
TBD				

RACK B				RACK DCS			
RACK RU	PART NUMBER	DESCRIPTION	RACK RU	PART NUMBER	DESCRIPTION		
1	TBD		1	TBD			
2	TBD		2	TBD			
3	TBD		3	TBD			
4	TBD		4	TBD			
5	TBD		5	TBD			
6	TBD		6	TBD			
7	TBD		7	COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU		
8	TBD		8	-			
9	TBD		9	COMMSCOPE, CPP-UDDM-M-1U-24	24-PORT MODULAR CATEGORY 6 PATCH PANEL, 1RU		
10	TBD		10	TBD			
11	TBD		11	COMMSCOPE, HTK-19-SS-2U	HORIZONTAL D-RING MANAGER, 2RU		
12	TBD		12				
13	TBD		13	CISCO	OWNER PROVIDED NETWORK SWITCH, 1RU		
14	TBD		14	TBD			
15	TBD		15	TBD			
16	TBD		16	TBD			
17	TBD		17	TBD			
18	TBD		18	TBD			
19	TBD		19	TBD			
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31	TBD		31	TBD			
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36	TBD		36	TBD			
37	TBD		37	TBD			
38	TBD		38	TBD			
39	TBD		39	TBD			
40	TBD		40	TBD			
41	APC, SMX2000LVNC	RACK MOUNT UPS, 4RU	41	APC, SMX2000LVNC	RACK MOUNT UPS, 4RU		
42	-		42	-			
43	-		43	-			
44	-		44	-			
45	APC, AP7901B	RACK MOUNT POWER STRIP, 1RU	45	APC, AP7901B	RACK MOUNT POWER STRIP, 1RU		

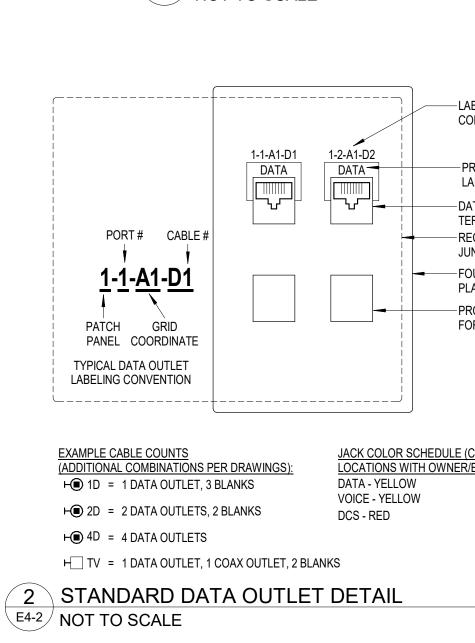
1. PROVIDE AND INSTALL ALL ITEMS LISTED IN FULL TONE, HALF TONE ITEMS SHOWN FOR COORDINATION ONLY.

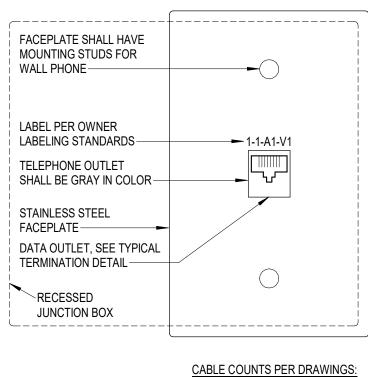
COMMUNICATIONS RACK A

PART NUMBER DESCRIPTION 7' TWO-POST COMMUNICATIONS RACK COMMSCOPE, RK3-45A MMSCOPE, VCM-DS-84-6B VERTICAL CABLE MANAGER PANDUIT, RGS134-1Y RACK MOUNT VERTICAL GROUND STRIP NOTE: 1. PROVIDE AND INSTALL ALL ITEMS LISTED IN FULL TONE, HALF TONE ITEMS SHOWN FOR COORDINATION ONLY.

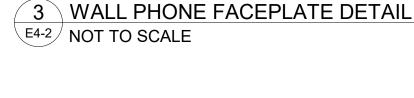
COMMUNICATION RACK B

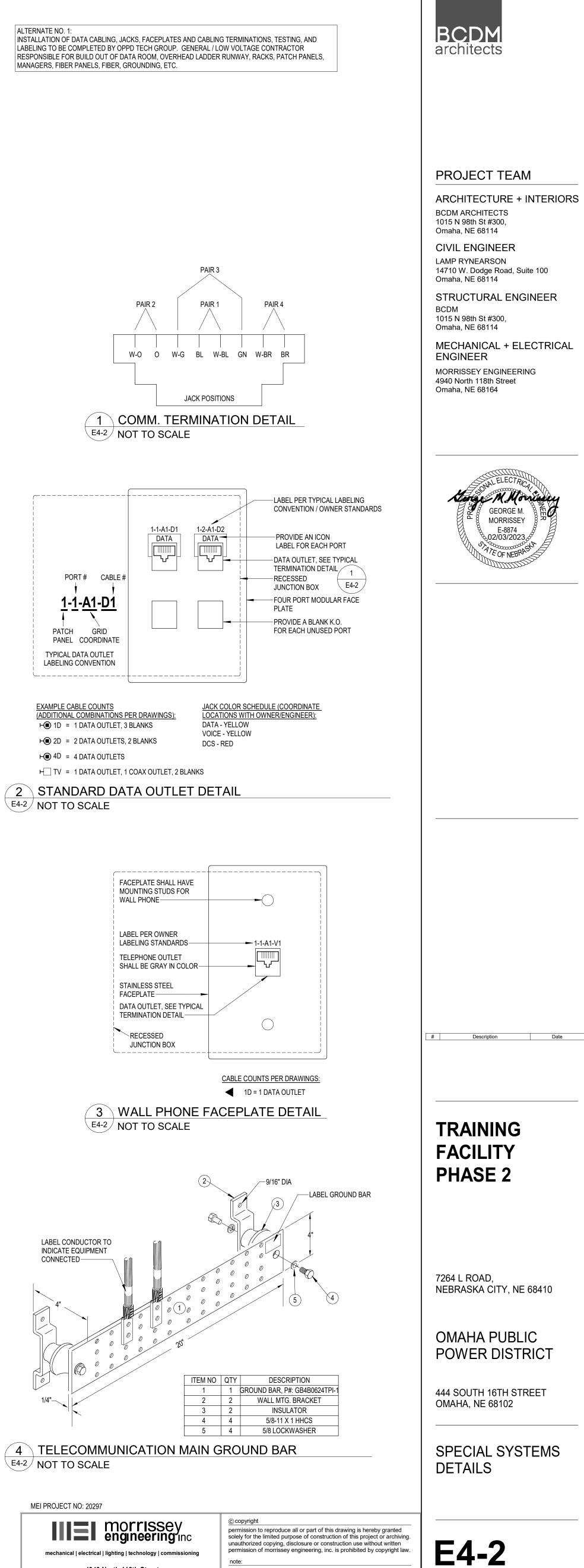
QUAN.	PART NUMBER	DESCRIPTION
1	COMMSCOPE, RK3-45A	7' TWO-POST COMMUNICATIONS RACK
1	COMMSCOPE, VCM-DS-84-6B	VERTICAL CABLE MANAGER
2	PANDUIT, RGS134-1Y	RACK MOUNT VERTICAL GROUND STRIP





1D = 1 DATA OUTLET

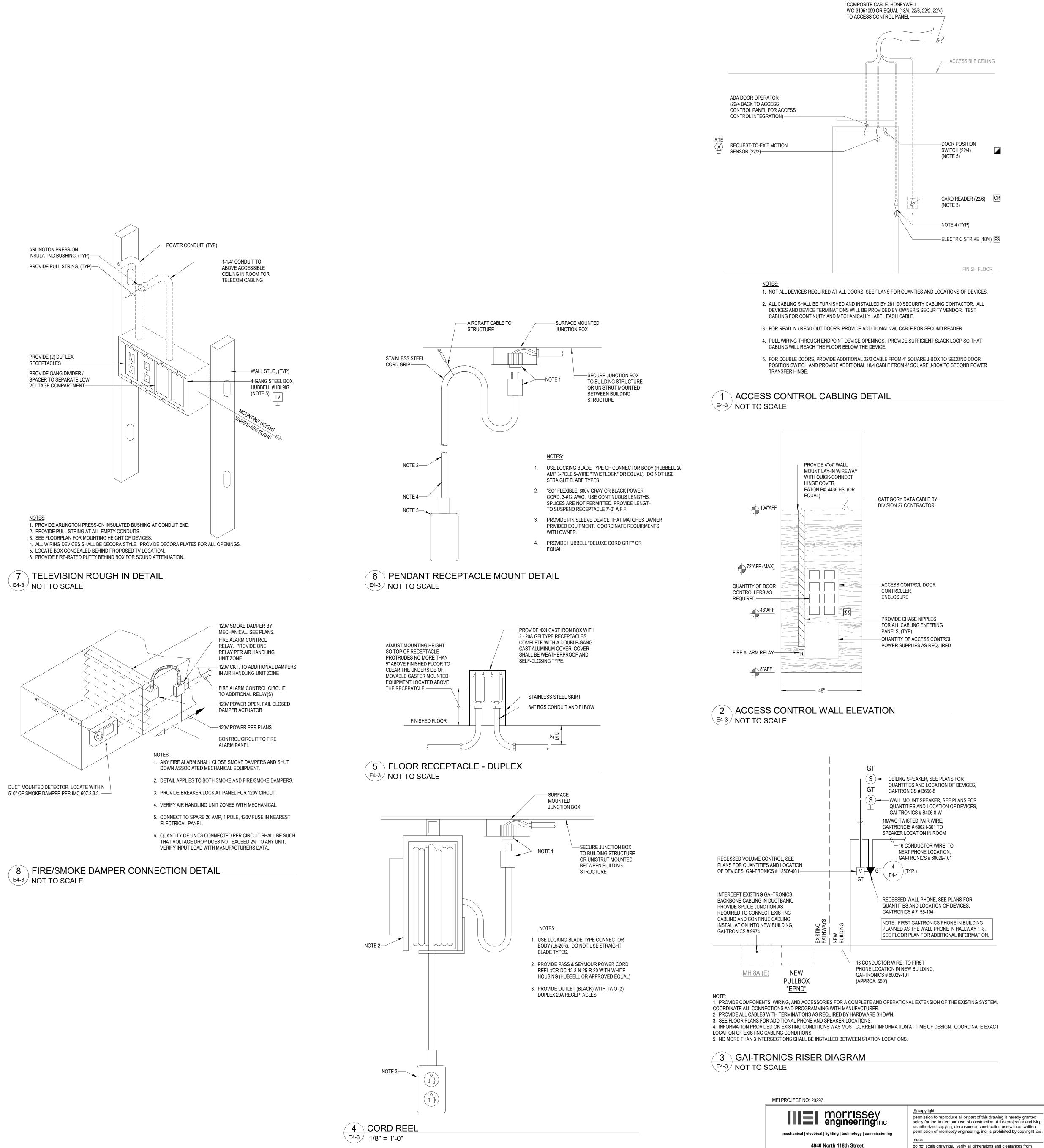


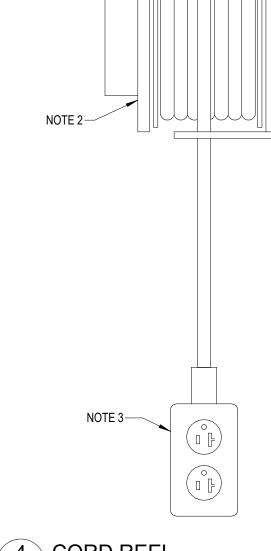


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COMMUNICATION RACK DCS

QUAN.	PART NUMBER	DESCRIPTION
1	COMMSCOPE, RK3-45A	7' TWO-POST COMMUNICATIONS RACK
1	COMMSCOPE, VCM-DS-84-6B	VERTICAL CABLE MANAGER
2	PANDUIT, RGS134-1Y	RACK MOUNT VERTICAL GROUND STRIP





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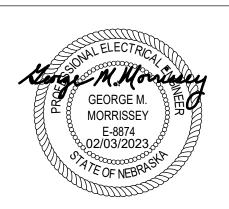


PROJECT TEAM

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Omaha, NE 68114 STRUCTURAL ENGINEER BCDM 1015 N 98th St #300, Omaha, NE 68114

MECHANICAL + ELECTRICAL ENGINEER MORRISSEY ENGINEERING 4940 North 118th Street Omaha, NE 68164



TRAINING FACILITY PHASE 2

Description Date

#

7264 L ROAD, NEBRASKA CITY, NE 68410

OMAHA PUBLIC POWER DISTRICT

444 SOUTH 16TH STREET OMAHA, NE 68102

SPECIAL SYSTEMS DETAILS



	WECHA		QUIPMENT CO	NNECIO	N SCHEDULE	
MARK	VOLTAGE	PHASE	DISCONNECT	BREAKER	WIRE AND CONDUIT	REMARK
AC-1	208 V	1	2-POLE TOGGLE		2#12,#12G,1/2"C	NOTE 2 (ACCU-1
ACCU-1	208 V	1	30/2/NF/RT	25/2	2#10,#10G,3/4"C	, , , , , , , , , , , , , , , , , , ,
ACOMP-1	480 V	3	60/3/NF	35/3	3#8,#10G,1"C	
AD-1	120 V	1	TOGGLE SWITCH	20/1	2#12,#12G,1/2"C	
BC-1	208 V	1	TOGGLE SWITCH	15/2	2#12,#12G,1/2"C	
DOAU-1	480 V	3	100/3/NF/RT	80/3	4#4,#6G,1-1/4"C	
EDH-1	480 V	3	LOCKING BREAKER	70/3	4#4,#6G,1-1/4"C	
EF-1	120 V	1	NOTE 3	20/1	2#12,#12G,1/2"C	
EH-1	277 V	1	NOTE 3	20/1	2#12,#12G,1/2"C	NOTE 1
EH-2	277 V	1	NOTE 3			
EWH-1	480 V	3	LOCKING BREAKER	80/3	3#4,#8G,1-1/4"C	
EWH-2	480 V	3				
FCU	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	NOTE 1
FCU-1	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-2	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-3	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-4	208 V	1	60/2/NF		2#8,#10G,3/4"C.	NOTE 4
FCU-5	208 V	1	60/2/NF		2#8,#10G,3/4"C.	NOTE 4
FCU-9	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-13	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-15	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
FCU-16	208 V	1	2-POLE TOGGLE	15/2	2#12,#12G,1/2"C	
HD-1	120 V	1	TOGGLE SWITCH		2#12,#12G,1/2"C	NOTE 2 (EF-1)
HP-1	480 V	3	60/3/NF/RT	50/3	3#8,#10G,1"C	NOTE 1
HWCP-1	120 V	1	TOGGLE SWITCH	20/1	2#12,#12G,1/2"C	
HWCP-2	120 V	1	TOGGLE SWITCH			

GENERAL REQUIREMENTS: A. VERIFY VOLTAGE AND PHASE WITH MECHANICAL CONTRACTOR AND APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO INSTALLATION. SCHEDULE NOTES:

1. MULTIPLE UNITS SCHEDULED IN PROJECT, SEE FLOOR PLANS FOR PANEL AND CIRCUIT INFORMATION.

2. MECHANICAL EQUIPMENT DERIVES POWER FROM AUXILARY MECHANICAL EQUIPMENT. EQUIPMENT LISTED IN () IN COMMENTS.

3. EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECTING MEANS.

FCU-4 & FCU-5. FAN COIL PROVIDED WITH FACTORY DISCONNECTS / CIRCUIT BREAKERS. PROVIDE DUAL ELECTRICAL CONNECTIONS TO MECHANICAL UNITS. SEE PANEL SCHEDULES FOR REQUIRED CIRCUIT BREAKER SIZES.

	ELECTRIC HEAT SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	PHASE	LENGTH	REMARKS			
EH-1	KING ELECTRIC	LPWA2730,TP,CB2,LPWAIC,LPWAG-G	3000 VA	277 V	1					
EH-2	KING ELECTRIC	LPWA2720,TP,CB2,LPWAIC,LPWAG-G	2000 VA	277 V	1					

NOTES: 1. PROVIDE WITH INTEGRAL SERVICE DISCONNECT AND THERMOSTAT. INSTALL PER MANUFACTURERS INSTRUCTIONS.

LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	TAG	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
•	4PD	ACUITY CONTROLS NLIGHT	nPODM 4P DX	LIGHTING CONTROL NETWORK ENTRY STATION WITH FOUR SETS OF ON AND OFF PUSH BUTTONS AND RAISE/LOWER DIMMING CONTROL
	NECY	ACUITY CONTROLS NLIGHT	NECY MVOLT BAC ENC GFXK	NLIGHT SYSTEM CONTROLER
\Diamond	nE	ACUITY CONTROLS NLIGHT	nCM PDT 10	EXTENDED RANGE LOW VOLTAGE CEILING SENSOR CONNECTED TO LIGHTING CONTROL NETWORK
нP	n	ACUITY CONTROLS NLIGHT	nIO PC KIT	OUTDOOR PHOTOCELL KIT CONNECTED TO LIGHTING CONTROL NETWORK
nIO	Х	ACUITY CONTROLS NLIGHT	nIO X KIT	LIGHTING CONTROL NETWORK RS-232 THIRD PARTY INTERFACE KIT
PP	n	ACUITY CONTROLS NLIGHT	nPP16	LIGHTING CONTROL NETWORK 16A POWER PACK
PP	n,D	ACUITY CONTROLS NLIGHT	nPP16 D	LIGHTING CONTROL NETWORK 16A POWER PACK WITH 0-10V DIMMING
SP	n	ACUITY CONTROLS NLIGHT	nSP16	LIGHTING CONTROL NETWORK 16A SECONDARY SWITCH PACK

	LUMINAIRE SCHEDULE											
				LIG	HT SOURCE		ELEC	FRICAL			ACCEPTABLE	
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	SPEC.	ССТ	TYPE	LOAD	VOLTS	FINISH	MOUNTING	MANUFACTURERS	REMARKS
1	2x4 TROFFER	FOCAL POINT	FEQ2 24 AC 5000L 935 1 C UNV LD1 G WH	5,000 LM	3500K	LED	51 W	277 V	WHITE	FLUSH/CEILING	NOTE 1	NOTE 6
2	4' LED STRIPLIGHT	LITHONIA	ZL1F L48 SMR 6000LM MDD MVOLT 35K 90CRI WH ZACH SQ	6,000 LM	3500K	LED	56 W	277 V	WHITE	SURFACE/CEILING	NOTE 1	NOTE 5
3	4' LED STRIPLIGHT	LITHONIA	VAP 8000LM FST WD MVOLT GZ10 35K 90CRI WLFEND2 CMB	8,000 LM	3500K	LED	67 W	277 V	WHITE	SURFACE/CEILING	NOTE 1	NOTE 5
5	4" ROUND LED DOWNLIGHT	LITHONIA	LDN4 35/20 L04 AR LD MVOLT GZ10	2,000 LM	3500K	LED	22 W	277 V	WHITE	FLUSH/CEILING	NOTE 2	
7	LED BATTERY LIGHT	LITHONIA	ELM2L	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE		2 W	277 V	WHITE	SURFACE/WALL	NOTE 1	
8	LED WALLPACK	LITHONIA	WST 92 40K VF MVOLT DDBXD	3,000 LM	4000K	LED	25 W	277 V	DARK BRONZE	SURFACE/WALL 8'-0" A.F.F.	NOTE 1	
9	LED WALLPACK	LITHONIA	DSXW2 LED 30C 1000 40K T4M 277 DDBXD	10,365 LM	4000K	LED	109 W	277 V	DARK BRONZE	SURFACE/WALL 20'-0" A.F.F.	NOTE 1	
10	FAA OBSTRUCTION LIGHT	FLIGHT LIGHT (OR EQUAL)	FL-810-R-AC1-34B-F-P-T-B			LED	100 W	120 V		SURFACE		MOUNT AS HIGH AS POSSIBLE
X1	SINGLE FACE EXIT SIGN	LITHONIA	LQM S W 3 R 120/277	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	277 V	WHITE	NOTE 3		NOTE 3

GENERAL REQUIREMENTS:

A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION.

B. LIGHT SOURCE TYPES: LED = LIGHT EMITTING DIODE.

LUMINAIRE SCHEDULE NOTES:

1. LUMINAIRE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: ACUITY BRANDS, HUBBELL, COOPER, OR PHILIPS LIGHTING.

- 5. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

	FLOORBOX SCHEDULE										
	COVER LOW VOLTAGE ACCEPTABLE										
MARK	DESCRIPTION	MANUFACTURER	MODEL	STYLE	TOP	FLANGE	FINISH	RECEPTACLE	CONDUIT	MANUFACTURERS	REMARKS
FB4E	4-GANG MULTI-SERVICE ON GRADE RECESSED FLOORBOX	WIREMOLD	RFB4E-OG	6	С	Т	NOTE 4	(2) 5-20	(2) 1"	NOTE 1	NOTE 2,3
FB6E	6-GANG MULTI-SERVICE ON GRADE RECESSED FLOORBOX	WIREMOLD	RFB6E-OG	6	С	Т	NOTE 4	(4) 5-20	(2) 1-1/4"	NOTE 1	NOTE 2,3

GENERAL REQUIREMENTS:

A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION. B. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

- C. CONFIRM FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- D. VERIFY FINISH AND FLOORING TYPE PRIOR TO ORDERING.
- E. PREPOUR SLEEVES MAY BE USED IN PLACE OF CORE DRILLING/SAW CUTTING IF LOCATIONS ARE DETERMINED PRIOR TO POURING THE FLOOR.

FLOORBOX SCHEDULE NOTES:

- 1. FLOORBOX SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: WIREMOLD, HUBBELL.
- 2. PROVIDE WITH INTERNAL RJ DEVICE BRACKETS AND ALL OTHER MOUNTING HARDWARE AS REQUIRED.
- 4. COORDINATE COLOR OF FLOOR BOX COVER WITH ARCHITECT AND OWNER'S INTERIOR DESIGNER PRIOR TO ORDERING.

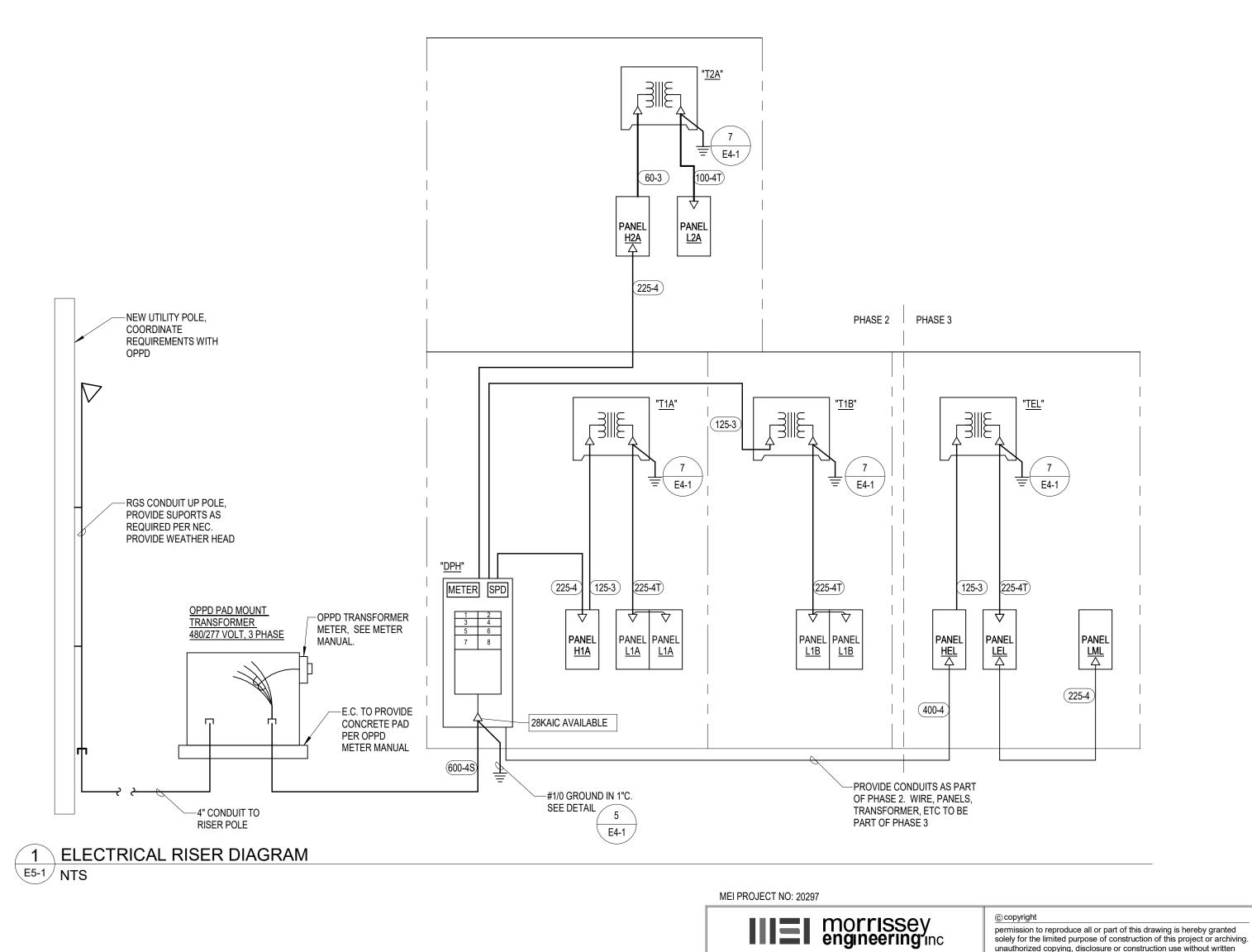
DRY-TYPE TR								
			VOL					
MARK	TRANSFORMER TYPE	kVA	PRIMARY					
T1A	GENERAL PURPOSE	75 KVA	480 V					
T1B	GENERAL PURPOSE	75 KVA	480 V					
TEL	GENERAL PURPOSE	75 KVA	480 V					

COPPER FEEDER SCHEDULE						
FEEDER	WIRE AND CONDUIT					
60-3	3-#6, #10 G - 1"C.					
100-4T	4-#1, #6 G - 1-1/2"C.					
125-3	3-#1, #6 G - 1-1/2"C.					
225-4	4-#4/0, #4 G - 2-1/2"C.					
225-4T	4-#4/0, #2 G - 2-1/2"C.					
400-4	4-600 KCMIL, #3 G - 4"C.					
600-4S	4-400 KCMIL IN EACH OF (2) 3" C.					

AT CONTRACTOR'S OPTION, COMPACT ELECTRICAL GRADE ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS 100 AMPS AND LARGER. IF ALUMINUM IS USED, CONTRACTOR TO SIZE ALUMINUM EQUAL TO FEEDER SCHEDULE (COPPER) AS INDICATED ON CONTRACT DOCUMENTS AND SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.

NOTE:

ESTIMATED MAX. DEMAND							
LOAD	CONN. (VA)	D.F.	EMD (VA)				
LIGHTING	8,907	1.0	8,907				
RECEPTACLES	53,100	0.59	31,550				
HVAC	74,004	0.8	59,203				
ELECTRIC HEAT	121,000	0.8	96,800				
(MISCELLANEOUS)	249,051	0.71	176,850				
TOTAL	506,062		373,310				
REQUIRED SERVICE: 600 AMPS AT							



C. UNLESS NOTED OTHERWISE, REFER TO PLANS FOR SUSPENSION LENGTHS REQUIRED FOR ALL SUSPENDED LUMINAIRES.

2. LUMINAIRE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: GOTHAM, PATHWAY, PRESCOLITE, OR COOPER PORTFOLIO.

3. REFER TO PLANS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL CHEVRON ARROWS AS INDICATED ON PLANS.

4. REFER TO PLANS FOR RUN LENGTHS AND CONFIGURATIONS REQUIRED. LUMINAIRE SHALL BE CONTINUOUS FOR ENTIRE LENGTHS OF WALLS. PRIOR TO ORDERING CONTRACTOR SHALL VERIFY WALL DIMENSIONS.

6. PROVIDE ALTERNATE BID #3 USING LITHONIA # EPANL 2X4 5400LM 80CRI 35K MIN10 ZT MVOLT. REFER TO ARCHITECTURAL DOCUMENTS FOR ALTERNATE BID REQUIREMENTS.

3. PROVIDE CONDUIT FROM CONNECTOR ROUTED UNDERFLOOR, UP CONCEALED IN WALL, AND STUBBED TO ABOVE ACCESSIBLE CEILING SPACE. TERMINATE WITH INSULATING BUSHING.

	INVERTER	SCHED	ULE	
	Inverter: EVIA Location:		ltage: 277 Panel: H1A	
OB#	DESCRIPTION	LOAD	VOLTAGE	NOTES
1	LTG - BUILDING LIGHTS	679 W	277 V	
ł		679 W		
Notes:				

ANSFORMER SCHEDULE LTAGE GROUNDING SECONDARY MOUNTING ELECTRODE REMARKS 208Y/120V WALL #2-3/4"C. 208Y/120V #2-3/4"C. WALL 208Y/120V WALL #2-3/4"C.

NOTES. PROVIDE FAST-TRANSFER, PURE SINE WAVE EMERGENCY LIGHTING INVERTER WITH QUANTITY OF OUTPUT BREAKERS INDICATED BY EVENLITE, DUAL LITE, OR ISOLITE. PROVIDE WITH ADEQUATE CAPACITY TO ACCOMMODATE LED LOADS INDICATED IN SCHEDULE FOR 90 MINUTE OPERATION. MANUFACTURER TO DETERMINE CAPACITY BASED ON ACTUAL PRODUCT DATA SUBMITTED DURING SHOP DRAWINGS AND OVERLOAD CAPACITY OF INVERTER. PROVIDE WITH SELF-TEST / SELF-DIAGNOSTICS OPTION AND MINIMUM 2 YEAR WARRANTY. FOR INVERTERS WITH MULTIPLE OUTPUT BREAKERS, PROVIDE INVERTER WITH SURGE SUPPRESSION.

mechanical | electrical | lighting | technology | commissioning

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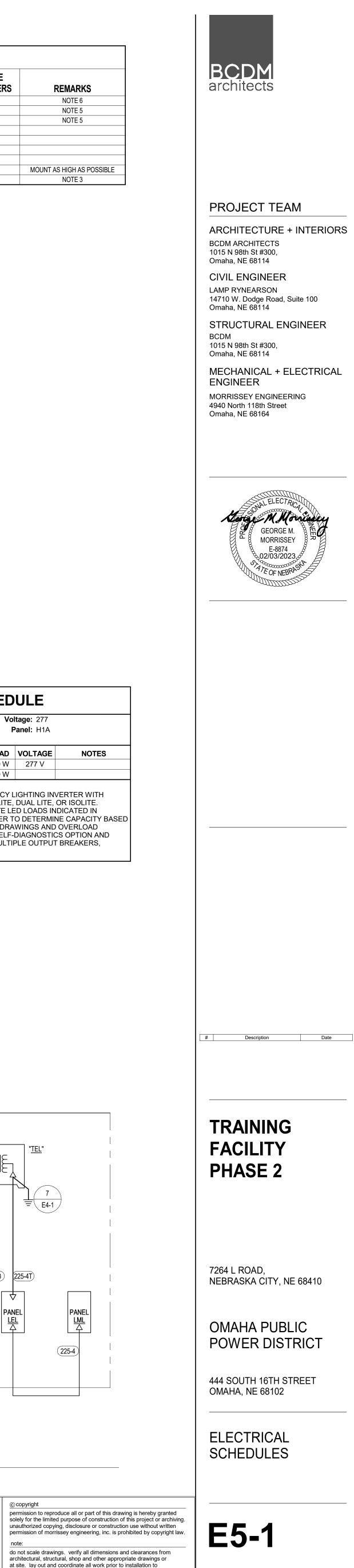
P: 402.491.4144

www.morrisseyengineering.com

note:

provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior

to verification of clearance for all trades.

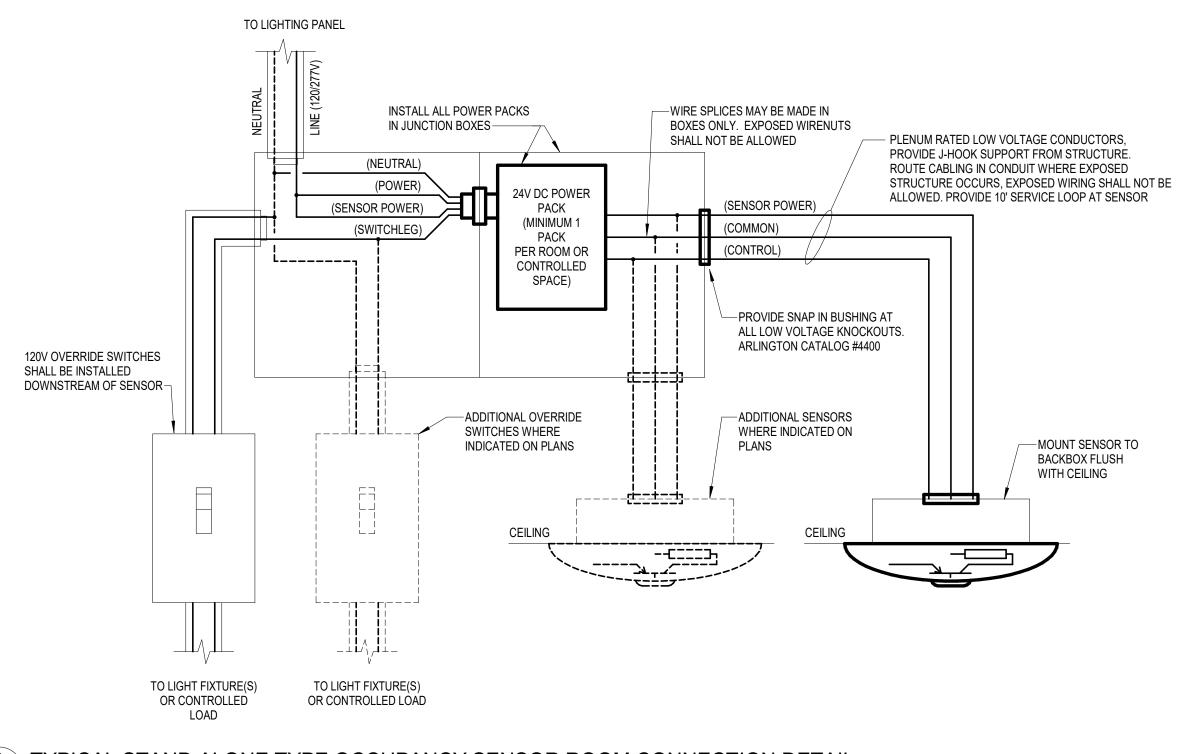


	DISTRIBU	TION PA	NE	EL SC	HED	DULE		
Ren	Panel: DPH narks: MAIN CKT. BKR. W/GND. BAR tions: OWNER METERING, SPD	Rating: 600 A Volts: 480/277 Phases: 3 Wires: 4			ating: 35 Rated: YE			
скт	NAMEPLATE DESIGNATION	ACTI	٧E	SPARE	FUSE	SPACE	REMARKS	
1	DOAU-1	80 A	3					
2	EDH-1	70 A	3				LOCKABLE	
3	EWH-1	80 A	3				LOCKABLE	
4	TRANSFORMER 'T1B'	125 A	3				LOCKABLE	
5	SPACE	125 A	3					
6	PANEL 'H1A'	225 A	3					
7	SPARE	225 A	3					
8	SPACE	225 A	3					
9	PANEL 'HEL'	400 A	3					
10	SPACE	400 A	3					

Notes: 1. THE CURRENT LIMITING PLUG IN THE CIRCUIT BREAKER OR THE BREAKER ITSELF MUST BE THE NEXT LOGICAL SIZE ABOVE THE SERVICE CONDUCTOR SIZE. 2. A PERMANENT "RED" ENGRAVED PHENOLIC PLATE MUST BE INSTALLED ON OR ABOVE THE MAIN CIRCUIT BREAKER WITH THE FOLLOWING INFORMATION: a. SERVICE SIZE - PER NEC.

b. ALL PROGRAMMED BREAKER SETTINGS.
 c. "CAUTION - ANY CHANGES TO THESE SETTINGS COULD BE A POTENTIAL RISK TO LIFE AND

PROPERTY". 3. PROVIDE AN ARC ENERGY REDUCING MAINTENANCE SWITCH FOR EACH CIRCUIT BREAKER FRAME SIZE 1200 AMPS AND LARGER.



1 TYPICAL STAND ALONE TYPE OCCUPANCY SENSOR ROOM CONNECTION DETAIL E5-2 NOT TO SCALE

AR OPT							A.I.C	. R	ating	 . 250	200
	_									j. 200	00
	R		скт	Α	в	с	скт	Р	R	OPT	Circuit Description
	20	1	1				2	-			
	20	1	3				4	3	125		T1A
		1	5				6				
	-						-				
	-	<u> </u>			•••			3	50		HP-1-1
						•••					
								2	FO		HP-1-2
	20				•••			3	50		HP-1-2
	60	2				•••					
	00	3						2	15	I.	EWH-2
	20	1			•••			5	10	L	
		-									
								3	15		SANITARY LIFT STATION
								ľ			
								1			SPACE
		1	33				34	1			SPACE
		1	35				36				SPACE
		1	37								SPACE
		1	39				40	1			SPACE
		1	41				42	1			SPACE
	 	20 20 20 20 20 60 2	20 1 20 1 20 1 20 1 20 1 20 1 60 3 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 1 1 1 1 1 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				

LIGH								- 0							
Panel: L1A										-	e: 120)/208			
Rating: 225 A							Phase: 3 Wire: 4								
Mounting: SURFACE															
Type: MCB W/SUB F GND.BAR	EED L	UGS	5 A	ND	A.I.C. Rating: 10000										
Circuit Description	ОРТ		Ρ	скт	Α	в	С	скт	Ρ	R	ОРТ	Circuit Description			
REC - MECH / ELEC		20	1	1				2	1	20		REC - BREAK ROOM			
FIRE ALARM PANEL	L	20	1	3				4	1	20		REC - BREAK ROOM COUNTER			
REC - BREAKROOM	G	20	1	5				6	1	20	G	REC - BREAKROOM FRIG			
REC - BREAKROOM	G	20	1	7				8	1	20		REC - COPY			
REC - HALL		20	1	9				10	1	20		REC - EXTERIOR			
LTG - FAA	L	20	1	11				12	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	13				14	1	20		REC - SIM ROOM			
AC UNIT - DATA 202		25	2	15				16	1	20		REC - SIM ROOM			
				17				18	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	19				20	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	21				22	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	23				24	1	20		REC - SIM ROOM			
REC - B/C OFFICE		20	1	25				26	1	20		REC - B/C OFFICE			
REC - B/C OFFICE		20	1	27				28	1	20		SPARE			
REC - FIRE BRIGADE		20	1	29				30	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	31				32	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	33				34	1	20		REC - SIM ROOM			
REC - SIM ROOM		20	1	35				36	1	20		REC - BREAK ROOM DISPOSAL			
REC - COPY ROOM		20	1	37				38	1	20	L	LIGHTING CONTROL			
REC - BREAK ROOM VENDING	G	20	1	39				40	1	20		REC - TRAINING LIBRARY			
REC - BREAK ROOM VENDING	G		1	41				42	1	20		REC - BREAK ROOM MW			
REC - BREAK ROOM VENDING	G	20	1	43	•••			44	1	20	G	REC - BREAK ROOM MW			
REC - TRAINING LIBRARY		20	1	45				46	1	20		REC - FIRE BRIGADE			
REC - HALLWAY EWC	G	20	1	47				48	1	20		REC - SIM ROOM			
			1	49	•••			50	1	20		REC - SIM ROOM			
REC - DATA 202 SOUTH WALL		20	1	51				52	1	20		REC - AV RACK			
REC - DATA 202 EAST WALL		20	1	53				54	1	20		REC - IT RACK A			
REC - DATA 202 WEST WALL		20						56				REC - IT RACK B (ALT #1)			
BUILDING CONTROL PANEL			1	57				58	1	20		REC - DCS RACK (ALT #2)			
REC - SIMULATOR 1		20	1	59				60	1	20		REC - SIMULATOR 2			
FCU (NORTH CORRIDOR)		15	2	61 63				62	1	20		HWCP-1 / HWCP-2			
SPACE			1					64	1			SPACE SPACE			
SPACE			1	65 67				66 68	1			SPACE			
SPACE					•••				1			SPACE			
SPACE			1	69 71				70 72	1			SPACE			
SPACE			1	73				74	1			SPACE			
SPACE			1	75	••••			74	1			SPACE			
SPACE			1	77		····		78				SPACE			
SPACE			1	79				80	1			SPACE			
SPACE			1	81	••••			82	1			SPACE			
SPACE			1	83				84	1			SPACE			
Options:				05			•••	04				SFACE			
G – GFCI type circuit breaker. L – Locking handle type circuit bre Notes:	aker.											e circuit breaker. existing circuit breaker.			

Panel: L1B										-	e: 120	0/208
Rating: 225 A									P	has	e: 3	
Mounting: FLUSH										Wir	e: 4	
Type: MCB W/SUB F	EEDL	UGS	S A	ND				A.I.C	. R	atin	a: SE	RIES RATED WITH
GND.BAR											UP	STREAM OVERCURRENT OTECTIVE DEVICE
Circuit Description	OPT	R		скт	A	в	с	СКТ	Р	R	ОРТ	Circuit Description
REC - HALL		20	1	1				2	1	20		REC - HALL
GAI-TRONICS SYSTEM		20	1	3				4	1	20		REC - CLASS ROOM 1
FB - CLASS ROOM 1		20	1	5				6	1	20		FB - CLASS ROOM 1
REC - CLASS ROOM 2		20	1	7				8	1	20		REC - CLASS ROOM 2
REC - CLASS ROOM 2		20	1	9				10	1	20		REC - EXTERIOR
SPARE		20	1	11				12	1	20		SPARE
REC - CLASS ROOM 2		20	1	13				14	1	20		REC - CLASS ROOM 3
REC - CLASS ROOM 3		20	1	15				16	1	20		REC - CLASS ROOM 3
REC - CLASS ROOM 2		20	1	17				18	1	20		REC - CLASS ROOM 1
CLASS ROOM 1 MOTOR		20	1	19				20	1	20		CLASS ROOM 2 MOTOR S
CLASS ROOM 3 MOTOR		20	1	21				22	1	20		REC - MURPHY ALLEY
REC - MURPHY ALLEY		20	1	23				24	1	20		REC - ROB'S OFFICE
REC - COMP LAB		20	1	25				26	1	20		REC - COMP LAB
REC - COMP LAB		20	1	27				28	1	20		REC - COMP LAB
REC - COMP LAB		20	1	29				30	1	20		REC - COMP LAB
REC - MAINT. TRAIN		20	1	31				32	1	20		REC - N/V OPEN OFFICE
REC - N/V OPEN OFFICE		20	1	33				34	1	20		REC - N/V OPEN OFFICE
SPARE		20	1	35				36	1	20	G	REC - DISPOSAL
ADA DOOR MOTOR		20	1					38			-	
				39				40	2	15		FCU (CLASSROOMS / OFI
FCU / BC (SOUTH CORRIDOR)		15	2	41				42				
				43				44	2	35		FCU-4 (NORTH CORRIDO
FCU-5 (NORTH CORRIDOR)		35	2	45				46				
		40		47				48	2	40		FCU-4 (NORTH CORRIDO
FCU-5 (NORTH CORRIDOR)		40	2	49				50	1			SPACE
SPACE			1	51				52	1			SPACE
SPACE			1	53				54	1			SPACE
SPACE			1	55				56	1			SPACE
SPACE			1	57				58	1			SPACE
SPACE			1	59				60	1			SPACE
SPACE			1	61				62	1			SPACE
SPACE			1	63				64	1			SPACE
SPACE			1	65				66	1			SPACE
SPACE			1	67				68	1			SPACE
SPACE			1	69				70	1			SPACE
SPACE			1	71				70	1			SPACE
SPACE			1	73				74	1			SPACE
SPACE			1	75				74	1			SPACE
SPARE		 20	-	75				78		20		SPARE
SPARE			1	79				78 80	1	20		SPARE
SPARE		20 20	1		•••			82	1	20		SPARE
			1	81		•••						
SPARE		20	1	83				84	1	20		SPARE
Options: G – GFCI type circuit breaker. L – Locking handle type circuit bre Notes:	aker.							S – R –	Sh Re	unt t conr	rip typ nect to	e circuit breaker. existing circuit breaker.

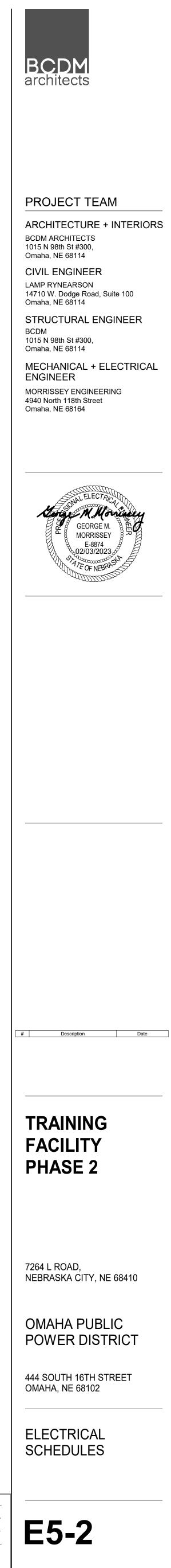
Panel: HEL	HTI	NG)	P/		JE	ΞL					ULE
										-	e: 480)/2//
Rating: 400 A									F	has		
Mounting: SURFACE											e: 4	
Type: MLO W/GND.	BAR							A.I.C	. R	atin	ŪP	RIES RATED WITH STREAM OVERCURRENT OTECTIVE DEVICE
Circuit Description	OPT	R	Р	СКТ	Α	в	с	СКТ	Ρ	R	ΟΡΤ	Circuit Description
				1				2	1	20		LTG - ELEC/MECH LAB
TRANSFORMER "TEL"	L	125	3	3				4	1	20		SPARE
	_			5				6	1	20		SPARE
				7				8	1	20		SPARE
VERTICAL SAW		30	3	9				10	1	20		SPARE
			4	11				12	1	20		SPARE
SPACE			1	13 15	•••			14	1	20		SPARE
SPACE			1	15				16 18	1	20		SPARE
		60	3	17				20	3	35		AIR COMPRESSOR
CRANE POWER		60	3	21	•••			20	3	35		AIR COMPRESSOR
				21				22				
FUTURE WELDER		25	3	25				24	3	75		FUTURE HOTSY
FOTORE WELDER		25	3	25				20	3	75	,	FOTORE HOTST
				29				30				
FUTURE WELDER		25	3	31				32	3	25		FUTURE WELDER
		20		33				34	U	20		
				35				36				
FUTURE LATHE		30	3	37				38	3	15		CNC MILL
			Ŭ	39				40	Ŭ			
				41				42	1			SPACE
FUTURE DRILL PRESS		20	3	43				44	1			SPACE
			-	45				46	1			SPACE
SPACE			1	47				48	1			SPACE
SPACE			1	49				50	1			SPACE
SPACE			1	51				52	1			SPACE
SPACE			1	53				54	1			SPACE
SPACE			1	55				56	1			SPACE
Options:												
G – GFCI type circuit breaker. L – Locking handle type circuit br	eaker.											e circuit breaker. existing circuit breaker.
Notes:												-

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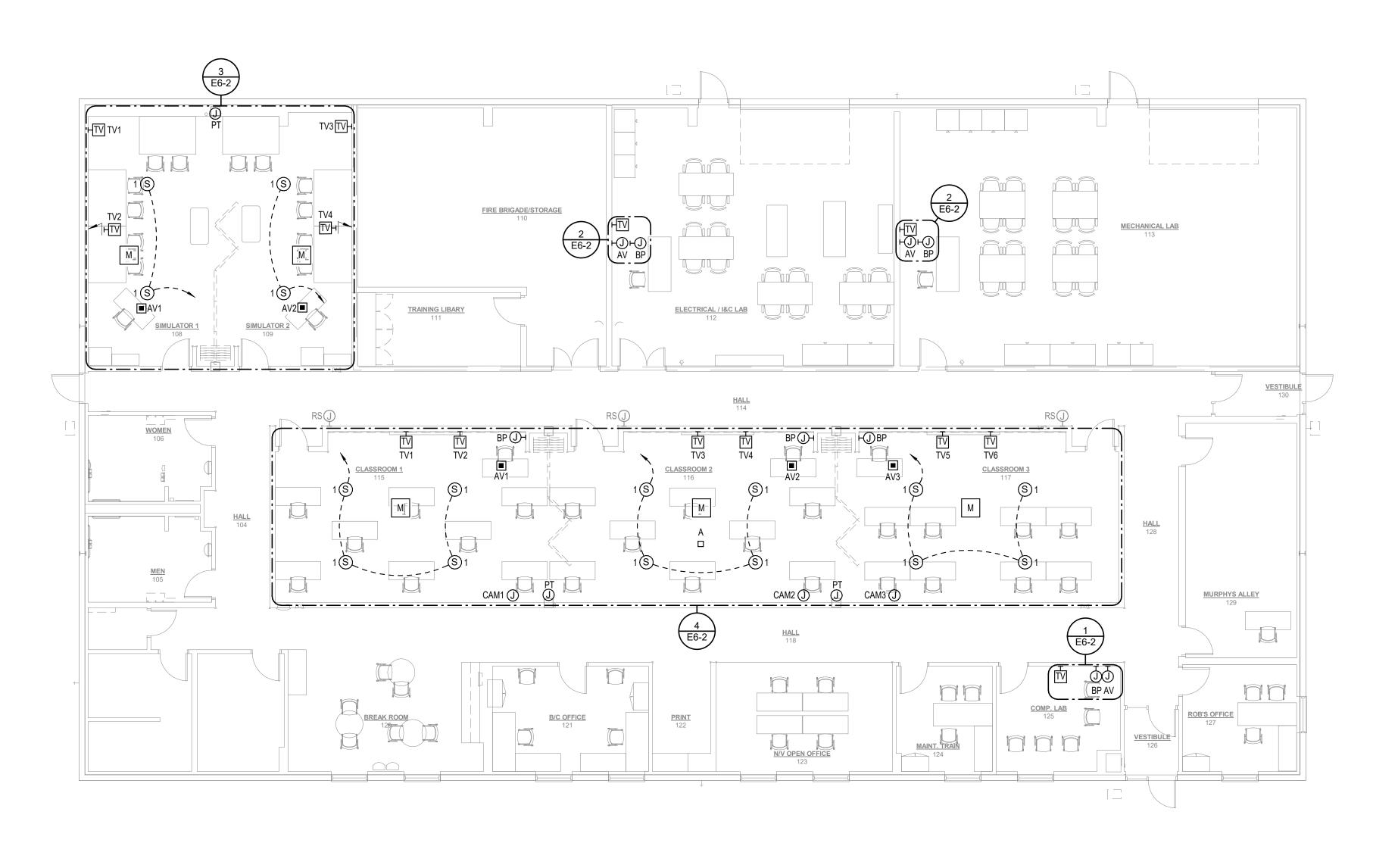
Panel: LEL							-		Ve	ltar	e: 120	0/208
										-		0/200
Rating: 225 A									ŀ	Phas		
Mounting: SURFACE										Wir	e: 4	
Type: MCB W/FEE) THRU	LUC	SS	AND	G١	۱D.		A.I.C	. R	ating		
BAR												STREAM OVERCURRENT
											PR	OTECTIVE DEVICE
	ODT	_	_	OVT	•			OVT	_	Р		
Circuit Description	OPT			CKT		в	C	CKT		R	OPT	•
REC - ELEC LAB	G	20		1				2	1	20	G	REC - ELEC LAB
REC - ELEC LAB	G	20	1	3				4	1	20	G	REC - ELEC LAB
REC - ELEC LAB	G	20		5				6	1	20	G	REC - ELEC LAB
REC - ELEC LAB	G	20	1	7				8	1	20	G	ELEC LAB GARAGE DOORS
REC - EXTERIOR		20		9				10	1	20	L	FIRE SMOKE DAMPERS
REC -		20	1					12	1	20		SPARE
REC - ELEC LAB TV		20	1					14	1	20		SPARE
SPARE		20	1					16	1	20		SPARE
SPARE		20	1	17			···	18	1	20		SPARE
SPARE		20		19				20	1	20		SPARE
LAB VOLT	G	20	1	21				22	1	20	G	RESISTANCE TRAINER
RESISTANCE TRAINER	G	20	1	23				24	1	20	G	REC - ELEC LAB
REC - ELEC LAB	G	20	1	25				26	1	20	G	REC - ELEC LAB
REC - ELEC LAB	G	20	1	27				28	1	20		COMPRESSOR AIR DRYER
SPACE			1	29				30	1			SPACE
SPACE			1	31				32	1			SPACE
SPACE			1	33				34	1			SPACE
SPACE			1	35				36	1			SPACE
SPACE			1	37				38	1			SPACE
SPACE			1	39				40	1			SPACE
			1	41				42	1			SPACE
SPACE Options: G – GFCI type circuit breaker.			1	39 41				42 S –	1 Sh	 nunt t		SPACE be circuit breaker.
L – Locking handle type circuit bi Notes:	eaker.							R–	Re	econi	nect to	existing circuit breaker.

r												
LIGH	ITI	NC)	PA	1/	JE	Ξl	_ S	5C	H	ED	ULE
Panel: LML							-		Vo	oltag	e: 120)/208
Rating: 225 A										Phas		
Mounting: SURFACE											e: 4	
Type: MLO W/GND. I	DAR							A.I.U	. 17	ating	UP	RIES RATED WITH STREAM OVERCURRENT OTECTIVE DEVICE
Circuit Description	ОРТ	R		скт	Α	в	с		Р	R	ОРТ	Circuit Description
REC - WORK BENCH	G	20	1	1				2	1	20	G	REC - WORK BENCH
REC - WORK BENCH	G	20	1	3				4	1	20	G	REC - WORK BENCH
SPARE		20	1					6	1	20	G	REC - MECH LAB
REC - MECH LAB DESK	G	20	1	7				8	1	20	G	MECH LAB GARAGE DOOR
REC - MECH LAB	G	20	1	9				10	1	20	G	REC - MECH LAB
REC - MECH LAB	G	20	1	11				12	1	20	G	REC - MECH LAB
REC - MECH LAB	G	20	1	13				14	1	20	G	REC - MECH LAB TV
REC - MECH LAB	G	20	1	15				16	1	20	L	FIRE SMOKE DAMPERS
EF-1		20	1					18	1	20		SPARE
SPARE		20	1	19				20	1	20		SPARE
SPARE		20	1	21				22	1	20		SPARE
SPARE		20	1	23				24	1	20		SPARE
SPARE		20	1	25				26	1	20		SPARE
SPARE		20	1	27				28	1	20		SPARE
				29				30	1	20		SPARE
SPACE			1					32	1			SPACE
SPACE			1	33				34	1			SPACE
SPACE			1	35				36	1			SPACE
SPACE			1	37				38	1			SPACE
SPACE			1	39				40	1			SPACE
SPACE			1	41				42	1			SPACE
Options: G – GFCI type circuit breaker. L – Locking handle type circuit bre Notes:	aker.							S – R –	Sh Re	nunt t econr	trip typ nect to	e circuit breaker. existing circuit breaker.

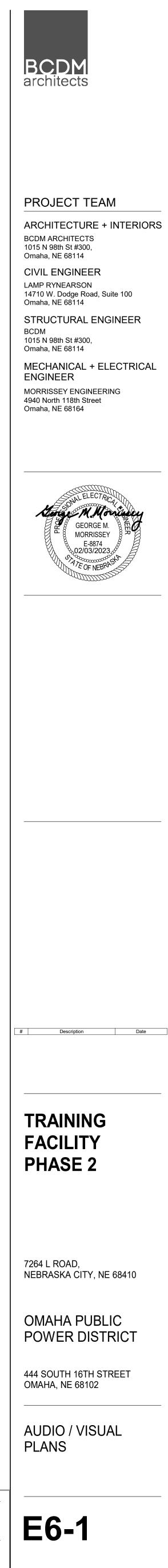
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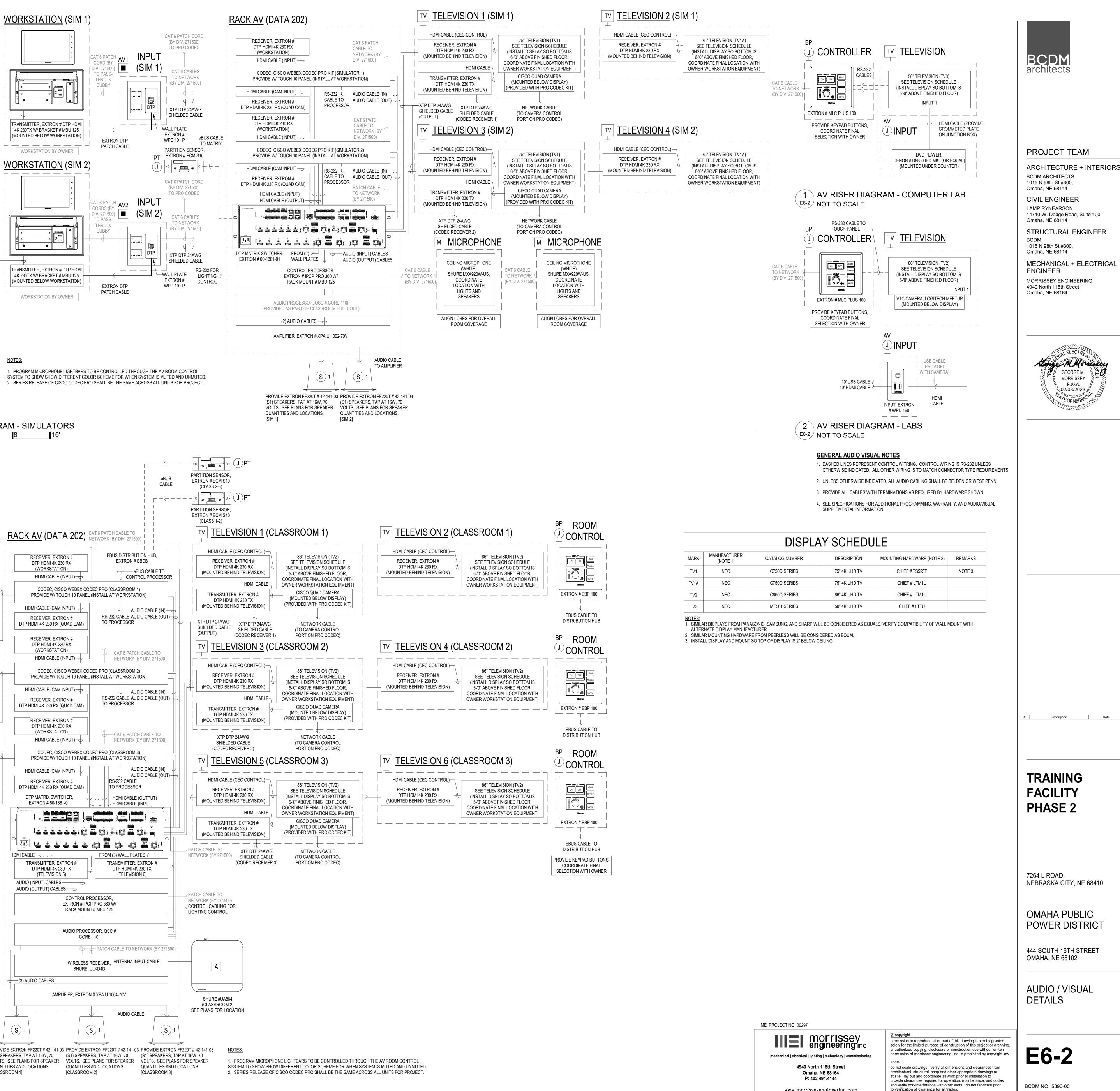


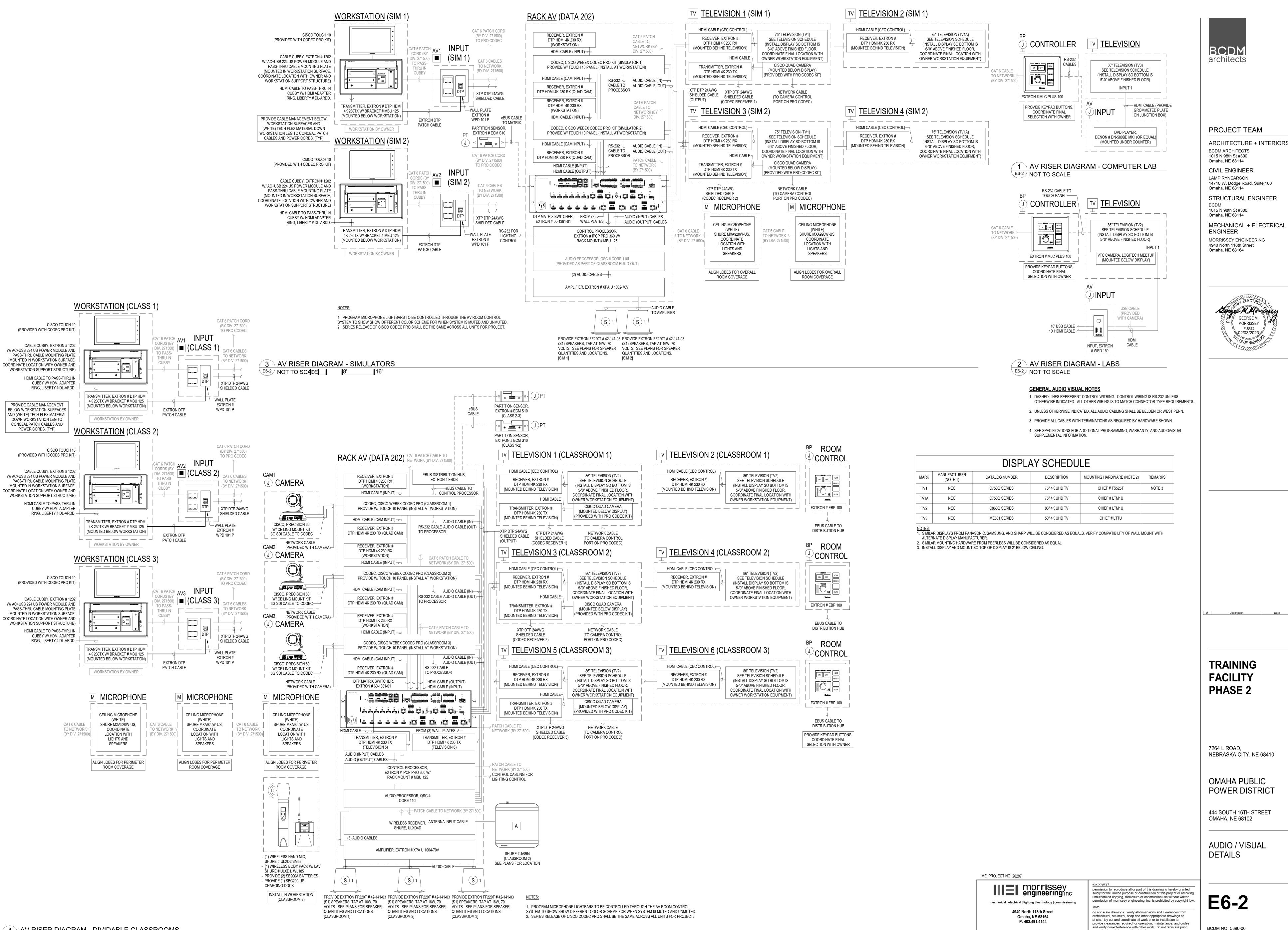
CISCO TOUCH 10



CABLE CUBBY, EXTRON # 1202 HDMI CABLE TO PASS-THRU IN

PROVIDE CABLE MANAGEMENT BELOW WORKSTATION SURFACES AND (WHITE) TECH FLEX MATERIAL DOWN





ROOM				
CONTROL				DISPL
		MARK	MANUFACTURER (NOTE 1)	CATALOG NUMBER
		TV1	NEC	C750Q SERIES
		TV1A	NEC	C750Q SERIES
TRON # EBP 100	-	TV2	NEC	C860Q SERIES
$\stackrel{ }{\sim}$	-	TV3	NEC	ME501 SERIES
EBUS CABLE TO STRIBUTION HUB		ALTER	NATE DISPLAY MANUFA	
ROOM				RE FROM PEERLESS WILL BE CON SO TOP OF DISPLAY IS 2" BELOW
CONTROL				

$\stackrel{BP}{} \operatorname{ROOM}_{} \operatorname{CONTROL}$
EXTRON # EBP 100

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02/03/2023