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Drawing Issue Dates

Schematic Design Submittal
9/1/2023

Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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Columbus Metropolitan Library Barnett Branch Addition/Renovation

3434 E Livingston Ave, Columbus, OH 43227



CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave,
Columbus, OH 43227

NOT FOR CONSTRUCTION

Cover Sheet

General
G000

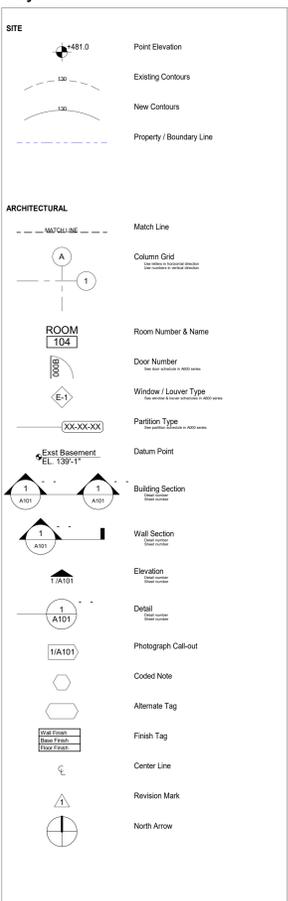
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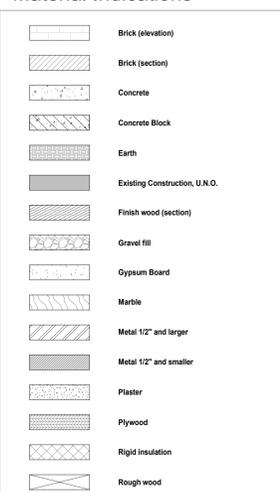
Abbreviations

&	And	DEMO	Demolish	ID	Inside Diameter	R	Radius
∠	Angle	DET	Detail	INSUL	Insulation	RA	Riser
∅	Diameter	DF	Drinking Fountain	INT	Interior	RA	Reinforced Concrete Pipe
∅	Electrical Phase	DM	Dimension	INV	Invert	RCP	Reinforced Concrete Pipe
#	Pounds	DP	Division	IP	Iron Pipe	RD	Roof Drain
AB	Anchor Bolt	DL	Dead Load	JAN CLO	Janitor's Closet	REAR	Reinforcing Steel Bars
ABV	Above	DR	Door	J-BOX	Junction Box	REIN	Reinforced / Reinforcing
AC	Asphalitic Concrete	DS	Down Spout	JT	Joint	REIN	Reinforced / Reinforcing
ACT	Actual	DWG	Drawing	KSP	Knock Out Panel	REV	Revised
AD	Acoustic Ceiling Tile	DWL	Dowel	KSP	Knock Out Panel	RMS	Room Head Machine Screw
ADL	Adjacent	EA	Each	KPL	Kick Plate	RM	Room
ADJ	Adjust	E.C.	Electrical Contractor	LAM	Laminate	RO	Rough Opening
AIE	Architectural	E.E.	Each End	LAV	Lavatory	ROW	Right of Way
AFF	As Above	E.F.	Each Face	LB / LBS	Pounds	RWL	Rain Water Leader
AFS	Automatic Fire Sprinkler	EL	Elevation	LG	Long	SCD	Seal Coat Dispenser
ALUM	Aluminum	ELEC	Electrical	LI	Live Load	SCHED	Schedule
ALT	Alternate	ENCL	Enclosure	LLH	Long Leg Horizontal	SD	Storm Drain
ANG	Angle	ENCL	Enclosure	LPT	Low Point	SECT	Section
AND	And	EPB	Electrical Panel Board	EQ	Equal	SFT	Square Feet
AOR	Architect of Record	ES	Each Side	EQ	Equal	SHTG	Sheathing
ARCH	Architect	E.S.W.	Each Way	LT WT	Light Weight	SHV	Shelving
ASPH	Asphalt	E.W.	Electrical Water Heater	MATL	Material	SHV	Shelving
BT	Bottom	EXH	Exhaust	MAX	Maximum	SM	Similar
BD	Board	EXH	Exhaust	MCH	Machine Bolt	SM	Sheet Metal
BTUM	Bituminous	EXST	Existing	MCH	Machine Bolt	SND	Sanitary Napkin Dispenser
BLDG	Building	EXP	Expansion or Exposed	MECH	Mechanical Contractor	SNOG	Snag On Grade
BLKG	Blocking	EXP BT	Expansion or Exposed	MFR	Manufacturer / Supplier	S.O.G.	Sub On Grade
BM	Bottom of Footing	EXT	Exterior	MH	Manhole	SPEC	Specifications
BOF	Bottom of Footing	FA	Fire Alarm	MIN	Minimum	SQ	Square
BOJ	Bottom of Joint	FDN	Foundation	MO	Masonry Opening	SST	Service Sink
BOS	Bottom of Slab	FD	Floor Drain	MS	Machine Screw	STD	Standard
BRCC	Bracing	FE	Fire Extinguisher	MTL	Metal	STD	Standard
BRG	Bearing	FEC	Fire Extinguisher Cabinet	MULL	Mullion	STP	Stair
BRT	Baseboard	FEL	Finished Floor	ND / #	Not in Contract	STR	Storage
BU	Build-Up	F.F.	Finished Floor	NOM	Nominal	STR	Storage
C	Center	FE	Fire Extinguisher	NIC	Not in Contract	STR	Storage
CC	Center to Center	FEL	Finished Floor	NOM	Nominal	STR	Storage
CAB	Cabin	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CB	Catch Basin	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CD	Cup Dispenser	FEL	Finished Floor	NOM	Nominal	STR	Storage
CE	Cast Iron	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CER	Ceramic	FEL	Finished Floor	NOM	Nominal	STR	Storage
CJ	Control Joint	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CJT	Construction Joint	FEL	Finished Floor	NOM	Nominal	STR	Storage
CL	Center Line	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CLG	Ceiling	FEL	Finished Floor	NOM	Nominal	STR	Storage
CLR	Clear Out	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CMU	Concrete Masonry Unit	FEL	Finished Floor	NOM	Nominal	STR	Storage
COL	Column	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
COMP	Composition / Composite	FEL	Finished Floor	NOM	Nominal	STR	Storage
CONC	Concrete	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CONT	Continuous	FEL	Finished Floor	NOM	Nominal	STR	Storage
CONTR	Contractor	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
COORD	Coordinate	FEL	Finished Floor	NOM	Nominal	STR	Storage
CRS	Course	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
C.R.S.	Cold Rolled Steel	FEL	Finished Floor	NOM	Nominal	STR	Storage
CSK	Countersunk	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CT	Center	FEL	Finished Floor	NOM	Nominal	STR	Storage
CTR	Center	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CU FT	Cubic Foot	FEL	Finished Floor	NOM	Nominal	STR	Storage
CU YD	Cubic Yard	FEL	Finished Floor	NIC	Not in Contract	STR	Storage
CW	Cold Water	FEL	Finished Floor	NOM	Nominal	STR	Storage

Symbols



Material Indications



Project Keynotes

03 30 00	CAST IN PLACE CONCRETE
04 21 00	CLAY UNIT MASONRY
04 21 10	BRICK UNIT MASONRY
04 22 00	CONCRETE UNIT MASONRY
05 10 00	STRUCTURAL METAL FRAMING
05 20 00	METAL JOISTS
05 30 00	METAL DECKING
05 40 00	COLD-FORMED METAL FRAMING
07 20 00	THERMAL INSULATION
07 53 00	ELASTOMERIC MEMBRANE ROOFING
09 30 00	PAINTING AND COATING
09 30 00	PAINTING AND COATING
033000.1	STRUCTURAL CAST-IN-PLACE CONCRETE
033000.5	UNDER-SLAB VAPOR BARRIER
042100.1	CLAY MASONRY UNITS
042100.7	MASONRY ANCHORAGE AND REINFORCING
042200.01	CONCRETE MASONRY UNITS (IF UNLESS OTHERWISE NOTED)
042200.10	MASONRY GROUTING
051200.1	STRUCTURAL STEEL FRAMING
051300.3	ROOF DECKING
053100.4	COMPOSITE METAL DECKING
056000.1	STEEL LINTELS
061000.1	BLOCKING
061000.2	DIMENSIONAL WOOD FRAMING
061000.5	PLYWOOD/OSB WALL SHEATHING
061000.6	PLYWOOD ROOF SHEATHING
061500.1	MOISTURE-RESISTANT GYPSUM SHEATHING
061700.1	WOOD JOIST STRUCTURAL FRAMING
071001.2	MINERAL WOOL BATT INSULATION
071001.3	RIGID BOARD INSULATION
071002.3	(ISO) POLYISOCYANURATE
072013.2	ABOVE GRADE VAPOR RETARDER
072002.1	AIR BARRIER
074213.1	METAL WALL PANELS
074213.23	ACM COMPOSITE PANELS
075400.02	COVER BOARD
075400.03	THERMOPLASTIC MEMBRANE ROOFING
075400.06	ROOF DECK INSULATION
075400.10	TAPPED ROOF DECK INSULATION
075400.12	VAPOR BARRIER
077100.1	MANUFACTURED METAL COPINGS
077200.2	ROOF HATCHES
078413.1	FIRESTOPPING
079200.2	ELASTOMERIC JOINT SEALANT
081113.1	HOLLOW METAL DOORS
081113.2	HOLLOW METAL DOOR FRAMES
081416.1	FLUSH WOOD DOORS
081433.1	STILE AND RAIL WOOD DOORS
081433.2	WOOD DOOR FRAMES
083231.1	OVERHEAD COLING DOORS
084113.1	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
084213.1	SLIDING AUTOMATIC ENTRANCES
084413.1	CURTAIN WALL ASSEMBLIES
092116.1	NON-STRUCTURAL METAL FRAMING
092116.2	METAL CHANNEL FURRING
092116.3	RESILIENT CHANNEL FURRING
092600.1	GYPSUM BOARD
092600.3	ACOUSTIC BATT INSULATION
093010.1	CERAMIC TILING
093200.1	WALL COVERING
102113.1	TOILET COMPARTMENTS
102813.01	PAPER TOWEL DISPENSER
102813.02	WASTE RECEPTACLE
102813.03	FRAMED MIRROR
102813.04	SOMP DISPENSER
102813.05	TOILET TISSUE DISPENSER
102813.06	CHANGING TABLE
102813.06.2	ADJUSTABLE HEIGHT CHANGING TABLE
102813.07.1	1" GRAB BAR
102813.07.2	1 1/2" GRAB BAR
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102813.07.4	3" GRAB BAR
102813.07.5	4" GRAB BAR
102813.07.6	1 1/2" VERTICAL GRAB BAR
102813.07.7	1 1/2" X 3 1/2" SHAPED GRAB BAR
102813.07.8	4" X 54" L-SHAPED GRAB BAR
102813.08	FOLDING SHOWER SEAT
102813.09	SHOWER CURTAIN ROD
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102813.20	UNDERLAVATORY GUARDS
102813.21	WARM-AIR DRYER
102813.22	

General Notes

- Schedule (not currently included): Partition Type Schedule see drawing A200. Exterior and Interior Window and Louver Schedule see drawing A600. Door and Frame Schedule see drawing A610.
- All dimensions shall be verified by the job by the General Contractor and each Sub-Contractor and the Architect must be notified of any discrepancies before proceeding with the work.
- All dimensions are to the face of finish, face of concrete, face of masonry, to centerlines of columns and other grid parts, and to centerlines of doors and other scheduled openings unless otherwise noted.
- All door locations not dimensioned are located by details "A800 and "A800 respectively for framed and masonry walls.
- Access door locations are noted on the drawings. Actual size, location, and quantity may vary upon field conditions. Verify and coordinate locations and quantity required with the appropriate contractor(s).
- Offset studs and/or sills as required to align finish material.
- All housekeeping pads and curbs shall be furnished and installed by the general (lead) contractor. Verify with appropriate contractor(s) for required size and location.
- All floor drain (F.D.) elevations are 1/2" lower than finished floor elevation unless otherwise noted.
- All vertical elevations and working points are given with reference to level one finish floor elevation 100'-0" datum.
- The drawings are the graphic portion of the contract documents showing the design, location, and dimensions of the work. Do not scale the drawings to determine a dimension in question, consult the architect for clarification.
- Contractor(s) are to investigate and verify location, condition, and capacity of all existing utilities within the limits of work, prior to beginning construction. See site utility, mechanical and electrical drawings for further information.
- The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the contractor(s) responsibility to determine erection procedures and sequences and to ensure the safety of the building and its component parts during erection, including the addition of shoring, sheathing, temporary enclosures, etc. It is the contractor(s) sole responsibility to follow all applicable safety and construction regulations, ordinances and codes during the course of construction.

REMODELING NOTES

- Contractor to verify all dimensions.
- Fill any masonry voids with mortar or concrete where anchors occur.
- Provide limits over all openings including those req'd for ductwork, pipes, louvers, grilles, dampers, etc.
- Coordinate locations and/or elevations of floor drain, registers, access panels, grilles, louvers, connectors, cabinet unit heaters, panels, etc. with mechanical and electrical contractors. Size and location of all floor openings to be verified with trades affected before proceeding with work.
- Baling of wood to structural members or masonry shall be in general with a minimum of 1/2" bolts @ 4'-0" O.C. except where shown otherwise. Situations requiring special bolting shall be with the size and spacing of bolts to suit the conditions.
- In any room in which plumbing, heating, or electrical alterations are made, the General Contractor shall make proper repairs to other building items affected, i.e. floors, walls, ceilings, base, chair rail, trim, etc. In general, new materials and materials for repair conditions shall match similar items in quality, detail, profile and finish as those already built into the work.
- All walls of all rooms with exposed structure ceilings to extend and seal to the structure unless noted otherwise.
- All concrete curbs and equipment pads shall be furnished by the General Contractor and sized and located by the contractor installing the equipment.

ALTERNATES

- A. ALTERNATE G1 – Hard Flooring**
- Alternate G1 shall include all work associated with providing LVT instead of ceramic tile in all areas indicated as FT-1.
 - Base Btl: Provide LVT instead.
- B. ALTERNATE G2 – Storefront Replacement**
- Alternate G2 shall include all work associated with replacing all teal storefront sections to remain with new storefront. Scope to include:
 - Base Btl: Replace teal storefront sections in the staff work room. Otherwise, storefront is to remain as is unless noted otherwise.
- C. ALTERNATE L1 – Dumpster Enclosure**
- Alternate L1 shall include all work associated with removing the existing dumpster enclosure and pad and constructing a larger dumpster enclosure and pad.
 - Base Btl: Existing dumpster enclosure and pad are to remain.
- D. ALTERNATE L2 – Mill and Overlay Parking Lot**
- Alternate L2 shall include all work associated with milling and overlaying the existing parking lot prior to striping.
 - Base Btl: Seal and restripe existing parking lot.
- E. ALTERNATE L3 – Replace Landscaping**
- Alternate L3 shall include all work associated with removing the existing landscaping along the building and replacing.
 - Base Btl: Existing landscaping along building to remain.

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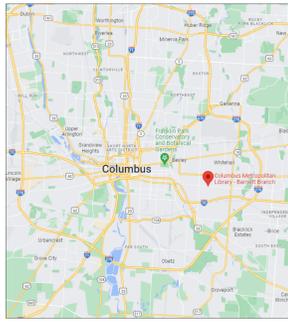
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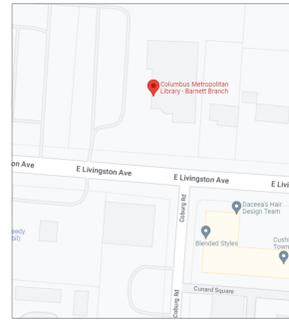
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Vicinity Map

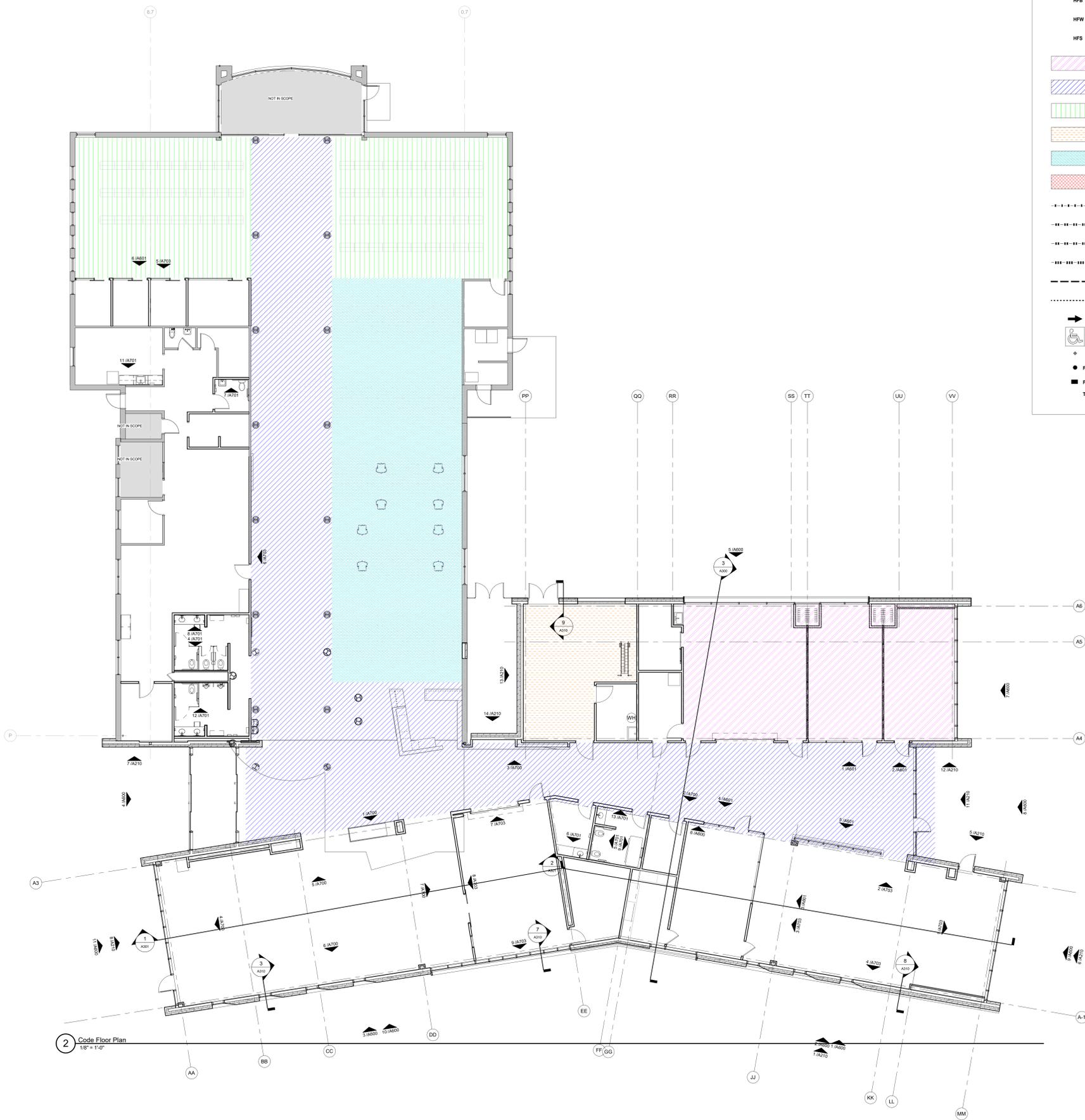


Area Map



Autodesk Docs/Barnett Metropolitan Library/22160_Barnett_11X_CML_v0222.rvt

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2 Code Floor Plan
1/8" = 1'-0"

CODE DATA - SYMBOL LEGEND

HFB	HOUR FIRE BARRIER
HFW	HOUR FIRE WALL
HFS	HOUR FIRE SEPARATION
	USE AND OCCUPANCY: A-3 AND A-5, ASSEMBLY 15 NET SQ FT PER OCCUPANT
	USE AND OCCUPANCY: B, BUSINESS 100 GROSS SQ FT PER OCCUPANT
	USE AND OCCUPANCY: S-1, MODERATE-HAZARD STORAGE 300 GROSS SQ FT PER OCCUPANT
	USE AND OCCUPANCY: S-2, LOW-HAZARD STORAGE 300 GROSS SQ FT PER OCCUPANT
	EGRESS
	ONE (1) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIES
	TWO (2) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIES
	TWO (2) HOUR FIRE SEPARATION (HFS) COMPLY WITH UL FIRE ASSEMBLIES
	THREE (3) HOUR FIRE WALL (HFW) COMPLY WITH UL FIRE ASSEMBLIES
	PATH OF EGRESS
	EGRESS EXIT
	ADA ACCESS OR ADA DWELLING UNIT
	OCCUPANT LOAD SIGNAGE
	NEW FIRE EXTINGUISHER
	NEW FIRE EXTINGUISHER CABINET, RECESSED IN WALL
	TOILET

CODE DATA - 2017 OHIO BUILDING CODE

PROJECT SUMMARY:
THE PROJECT IS A SINGLE-STORY ADDITION TO AN EXISTING LIBRARY.

APPLICABLE CODES:

ZONING:	City of Columbus - Title 33 Base Zoning: 271-020 05/26/1971 CA, H-35 - COMMERCIAL 1239 10/05/1994 CA, H-35 - COMMERCIAL
Parcel ID's:	010-009149-90 & 010-009149-80 010-047864-80 & 010-047864-90 010-047865-80 & 010-047865-90 010-034719-80 & 010-034719-90
FLOOD ZONE:	Flood Zone X - F.E.M.A. Map Number 39049C0307X - (June 17, 2008)
FIRE CODE:	OAC 1301.7 (1-7) 2017 - Ohio Fire Code (2015 IFC with Ohio amendments)
FOOD SAFETY:	OAC 3717-1 Ohio Uniform Food Safety Code (No effective date given)
BUILDING CODE:	OAC 4101.1 (1-35) 2017 - Ohio Building Code (2015 IBC with Ohio amendments)
ACCESSIBILITY:	OAC 4101.1 (11) 2017 - ICC Chapter 11 and ICC A117.1
ENERGY CODE:	OAC 4101.1 (13) 2012 - ECCC and ASHRAE 90.1-2010 (with Ohio amendments)
ELECTRICAL CODE:	OAC 4101.1 (27) 2017 - Ohio Chapter 27 and National Electrical Code NFPA 70-17
MECHANICAL CODE:	OAC 4101.2 (1-15) 2017 - Ohio Mechanical Code (2015 IMC with Ohio amendments)
PLUMBING CODE:	OAC 4101.3 (1-15) 2017 - Ohio Plumbing Code (2015 IPC with Ohio amendments)
ELEVATOR CODE:	OAC 4101.1 (30) 2017 - OBC Chapter 30 OAC 4101.5 (1,3) 2016 - ASME A17.1

Additional Referenced Standards frequently requested are as follows:
NFPA 13 - Standard for the Installation of Sprinkler Systems (2016 edition)
NFPA 14 - Installation of Standpipe and Hose System (2016 edition)
NFPA 72 - National Fire Alarm and Signaling Code (2016 edition)

USE AND OCCUPANCY CLASSIFICATION:
OBC 303.4 A-3, ASSEMBLY (LIBRARY AND MEETING ROOM- NO CHANGE FROM EXISTING)

GENERAL BUILDING HEIGHTS AND AREAS:
OBC TABLE 509.2 ALLOWABLE HEIGHT:
TYPE I-B CONSTRUCTION
3 STORIES ALLOWABLE AND 75' HEIGHT
1 STORIES ACTUAL AND 30' HEIGHT ACTUAL (NO CHANGE FROM EXISTING)
OBC TABLE 509.2 BUILDING AREA:
TYPE I-B CONSTRUCTION
38,000 SF FLOOR ALLOWABLE WITH 51 903.3.1.1 SPRINKLER
11,800 SF FLOOR EXISTING
-25,000 SF FLOOR PROPOSED

TYPE OF CONSTRUCTION:
OBC TABLE 601:
TYPE I-B CONSTRUCTION
STRUCTURAL FRAME: 0-HOURS
BEARING WALLS, EXTERIOR: 0-HOURS
BEARING WALLS, INTERIOR: 0-HOURS
NON-BEARING WALLS AND PARTITIONS: 0-HOURS
FLOOR CONSTRUCTION: 0-HOURS
ROOF CONSTRUCTION: 0-HOURS

FIRE PROTECTION SYSTEMS:
OBC 903.3.1.1: NFPA 13 SPRINKLER SYSTEM INSTALLED THROUGHOUT
OBC 907.2: NFPA 72 MANUAL AND AUTOMATIC FIRE ALARM SYSTEM
OBC 905.3.2: NO STANDPIPE REQUIRED

MEANS OF EGRESS:
OBC 1004.1: DESIGN OCCUPANT LOAD - 800 OCCUPANTS
OBC TABLE 1006.2.1: COMMON PATH OF EGRESS TRAVEL: A = 75 FT MAX ALLOWABLE
COMMON PATH OF EGRESS TRAVEL: B = 75 FT MAX ALLOWABLE
EXIT ACCESS TRAVEL DISTANCE: 250 FT MAX ALLOWABLE
OBC TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE: 250 FT MAX ALLOWABLE

ACCESSIBILITY:
OBC TABLE 1106.1: 84 EXISTING PARKING SPACES
56 PARKING SPACES REQUIRED
XXX TOTAL PARKING SPACES PROVIDED
X REQUIRED ACCESSIBLE PARKING SPACES (2 VAN)
X PROVIDED ACCESSIBLE PARKING SPACES INCLUDED (2 VAN)

PLUMBING:
OBC TABLE 2902.1 / OBC 403.4-3 REQUIRED MINIMUM PLUMBING FACILITIES
WATER CLOSETS
REQUIRED: 1 PER 125 MALE / 1 PER 65 FEMALE = 11
PROVIDED: 2 WC AND 1 URINAL MALE / 3 FEMALE / 4 SINGLE USER
LAVATORIES
REQUIRED: 1 PER 200 = 4
PROVIDED: 2 MALE / 2 FEMALE / 4 SINGLE USER
DRINKING FOUNTAINS
REQUIRED: 1 PER 500 OCCUPANTS = 2
PROVIDED: 2
OTHER REQUIRED:
SERVICE SINK - 1 REQUIRED / 1 PROVIDED
ACCESSIBLE FAMILY RESTROOM (OBC 1109.2.1) - 1 REQUIRED / 1 PROVIDED



ARCHITECTURE. INSPIRED.

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919-495-6070

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Code Analysis

General
G002
Issue Date

22160

Revision Schedule		
#	Description	Date

PROJECT INFORMATION

PROJECT TITLE: COLUMBUS METROPOLITAN LIBRARY BARNETT BRANCH EXPANSION
3434 E LIVINGSTON AVE
COLUMBUS, OH 43227

PROJECT SCOPE OF WORK: EXISTING USE: COLUMBUS METROPOLITAN LIBRARY
PROPOSED USE: 13,300 SF LIBRARY ADDITION

OWNER/DEVELOPER: COLUMBUS METROPOLITAN LIBRARY
96 S. GRANT AVE.
COLUMBUS, OH 43215
CONTACT: ERIN REILLY-SANDERS
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614-876-9081
EREILLY-SANDERS@SCHOOLEYCALDWELL.COM

ENGINEER: MOODY ENGINEERING, LLC
300 SPRUCE STREET, SUITE 200
COLUMBUS, OH 43215
CONTACT: ANTHONY COLLEN
614-280-8999
ACOLLEN@MOODY-ENG.COM

AREA COMMISSION OR CIVIC GROUP: MIDEAST AREA COMMISSION

TRACKING NUMBER: APPLICATION NUMBER: 23601-00065
PROPOSED BUILDING: 13,300 SQ.FT.

THE PROPOSED PROJECT WILL COMPLY, AS APPLICABLE, WITH FOLLOWING SECTIONS OF THE CITY OF COLUMBUS ZONING CODE:
3312.21 - NEW ADDITION COMPLIES WITH LANDSCAPING
3312.39 - STRIPING AND MARKING
3312.43 - SURFACE FOR PARKING
3312.45 - NEW ADDITION COMPLIES WITH LANDSCAPING
3312.49 - MINIMUM NUMBERS OF PARKING SPACES REQUIRED
3321 - GENERAL SITE DEVELOPMENT STANDARDS
3353.03 - PERMITTED USES OF C-2 COMMERCIAL DISTRICT
3353.07 - C-2 DISTRICT LOT COMBINATIONS
3353.09 - C-2 DISTRICT SETBACK LINES
3372.781 - LIVINGSTON EAST AREA COMMUNITY COMMERCIAL OVERLAY

DUMPSTER ENCLOSURE: AS SHOWN (EXISTING)

DEPARTMENT OF UTILITIES GENERAL NOTES:
SITE DATA TABLE:
TOTAL SITE AREA: 2.255 AC
TOTAL DISTURBED AREA: 0.336 AC
IMPERVIOUS DISTURBED AREA: 0.020 AC
PRE-DEVELOPED IMPERVIOUS: 0.248 AC
POST-DEVELOPED IMPERVIOUS: 0.584 AC

A CITY OF COLUMBUS, ENGINEERED STORM PLAN IS REQUIRED, THERE ARE MORE THAN 10,000 S.F. (0.230 AC), OF DISTURBED AREA, AND GREATER THAN 2,000 S.F. OF INCREASE IN IMPERVIOUS AREA, THE RESULTANT RUN-OFF INCREASES FROM 15,472 CU. FT. TO 17,480 CU. FT. CORRELATING WITH A 12.9% INCREASE AND 2-YEAR CRITICAL STORM. UNDERGROUND DETENTION WILL BE UTILIZED TO RESTRICT RUN-OFF TO BELOW THE 1-YEAR STORM UP TO THE CRITICAL STORM AND TO LESS THAN PREDEVELOPMENT FROM THE CRITICAL STORM TO THE 10-YEAR STORM. STORMS GREATER THAN THE 10 YEAR STORM WILL BE RELEASED AT THE 10-YEAR PREDEVELOPMENT RATE UP TO THE 100-YEAR STORM.

A FULL EROSION AND SEDIMENTATION CONTROL (ESC) / STORMWATER POLLUTION PREVENTION PLAN (SWPP) IS REQUIRED AND PROVIDED WITH THE FINAL SITE COMPLIANCE PLAN.
EROSION AND SEDIMENTATION CONTROL:
LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENTATION CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENTATION CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT 614-645-6311.

ON-SITE CONTACT: TBD
PHONE: TBD
FAX: TBD
E-MAIL: TBD
SITE IS TRIBUTARY TO: BIG WALNUT CREEK WATERSHED

STORMWATER MANAGEMENT NOTE:
WATER QUALITY MUST MEET THE REQUIREMENTS OF THE OHCC00006, OHIO GENERAL STORMWATER PERMIT.

SANITARY SEWER NOTE:
CONNECTION TO THE SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM THE SEWER PERMIT OFFICE 111 N. FRONT ST. 614-645-7490

SANITARY DEMOLITION NOTE:
PRIOR TO DEMOLITION, A PERMIT FOR SANITARY LATERALS TO BE CAPPED OFF MUST BE OBTAINED FROM THE SEWER PERMIT OFFICE.

SEWER PERMIT OFFICE: 910 DUBLIN RD, COLUMBUS, OHIO, 43215, 614-645-7490
SANITARY SERVICES ARE SHOWN ON THIS PLAN FOR REFERENCE ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THE SANITARY SERVICES OR THEIR LOCATIONS. CONTACT THE DPU PERMIT OFFICE FOR SANITARY SERVICE APPROVAL.

ANY WORK INVOLVING THE SANITARY SERVICE LATERAL OUTSIDE OF THE BUILDING CANNOT BE DONE WITHOUT CONTACTING THE PERMIT OFFICE. CONTACT SEWER PERMIT OFFICE 111 FRONT STREET (614) 645-7490 FOR ANY WORK INVOLVING THE EXISTING SANITARY SERVICE LATERAL(S) OUTSIDE OF BUILDINGS AND ANY NEW SEWER CONNECTIONS TO THE MAINLINE.
PRIVATE SANITARY SERVICE SLOPE IS 2.08% MINIMUM.

WATER, FIRE HYDRANT NOTE:
ALL PORTIONS OF BUILDING WITHIN 400' (AS THE HOSE LAYS) OF A HYDRANT.
ALL HYDRANTS ARE SPACED WITHIN 300' FROM ONE ANOTHER.

WATER, FIRE SERVICE NOTES:
• THE FDC & HYDRANT CONNECTION CANNOT INTERFERE WITH THE ACCESS FOR OTHER RESPONDING APPARATUS.
• THE FDC NEEDS TO BE AT GRADE LEVEL OF THE SIDEWALKS.
• THE FDC NEEDS A SIGN ABOVE IT STATING WHAT SYSTEM IT SERVES/ADDRESS ALONG WITH OPERATING PRESSURES AND GALLONS PER MINUTE REQUIRED. MULTIPLE FDCS ON A BUILDING MUST SHOW WHAT AREA OF THE BUILDING THEY SERVE.
• A REMOTE FDC SHALL BE DESIGNED AND INSTALLED PER NFPA 24 STANDARDS, OFC 912.
• ALL FDCS MUST HAVE LOCKING KNOX CAPS PER OFC 912.3.1
• ALL NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON THE EXISTING COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING (THE TEST IS DONE BY A 3rd PARTY). OFC 510. CONTACT CPDERRS@COLUMBUS.GOV FOR ADDITIONAL INFORMATION AND TEST RESULTS.
• KNOX ENTRY REQUIRED FOR EACH SECURED TENANT SPACE. OFC 506.1

DIVISION OF POWER:
THE DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL, AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

CITY OF COLUMBUS STANDARD NOTES:
RIGHT-OF-WAY ENCROACHMENT NOTE:
NO PRIVATE ELEMENTS ARE PERMITTED TO ENCRUCH INTO THE RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, STAIRS, RAILINGS, FOUNDATIONS, DOORS, OVERHEAD ELEMENTS, OR WALLS.

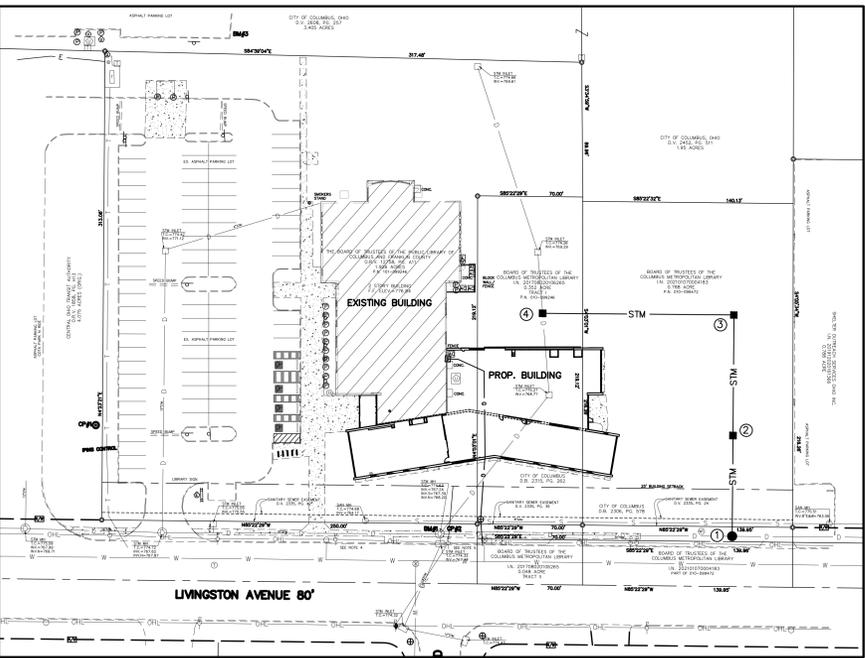
EXPIRATION NOTE:
DATE OF EXPIRATION: PLAN IS VALID FOR ONE (1) YEAR FROM DATE OF APPROVAL.

100% DESIGN DEVELOPMENT PLAN

FOR

COLUMBUS METROPOLITAN LIBRARY BARNETT BRANCH ADDITION

3434 E LIVINGSTON AVE
COLUMBUS, OH 43227



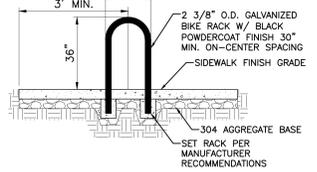
LOCATION MAP
1" = 40'

HYDRANT DATA

FLOW HYDRANT: 1E OF BARNETT RD ON E LIVINGSTON AVE
PRESSURE HYDRANT ID: TBD
TEST DATE: TBD
PIPE SIZE: 6"
ELEV: TBD
STATIC PRESSURE: TBD
RESIDUAL PRESSURE: TBD
PIST: TBD
OUTLET: TBD
FLOW: TBD
FLOW @ 20 PSI: TBD
CH: TBD
HGL: TBD

PARKING DATA

PARKING REQUIREMENTS PER CITY OF COLUMBUS CODE SECTION 3312.49
PROPOSED CONDITIONS
PARKING SPACES REQUIRED (VEHICLE)
BUILDING ADDITION = 13,300 SF
SPACES REQUIRED @ 1:400 SF FOR LIBRARIES MINUS 25% OVERLAY REDUCTION PER 3372.709
SPACES REQUIRED = 45
BIKE PARKING SPACES = 5
EXISTING PARKING SPACES TO REMAIN (ENTIRE SITE)
STANDARD PARKING SPACES = 80
ADA PARKING SPACES = 4
BIKE PARKING SPACES = 4



GENERAL ZONING INFORMATION	
CERTIFIED SITE ADDRESS	3434 E LIVINGSTON AVE, COLUMBUS, OH 43227
PARCEL I.D. NUMBER	010-099246
LOT INFORMATION	3434 E LIVINGSTON AVE, EXISTING LIBRARY AND PARKING LOT. THE REMAINDER OF LOT IS VACANT LAND. THE SITE IS BOUNDED BY E LIVINGSTON AVE, COTA LOT, BARNETT COMMUNITY CENTER, AND WHITEHALL PREPARATORY AND FITNESS ACADEMY
ZONING CLASSIFICATION/DISTRICT	C-2 COMMERCIAL LIVINGSTON EAST AREA CCO
VARIANCE CASE NO.	NOT APPLICABLE
CURRENT COUNCIL VARIANCE NO.	NOT APPLICABLE
HEIGHT DISTRICT / MAX. BLDG. HEIGHT	H-35
PROPOSED BUILDING/EVE HEIGHT	34'-6"
BUILDING SETBACK	20'-0"
PARKING SETBACK	10'-0"
COMMERCIAL OVERLAY	NOT APPLICABLE
TOTAL SITE AREA (FEET OR ACRES)	2.255 ACRES
FLOOD INSURANCE RATE MAP NO. (FIRM)	39049C0334L
MOST RECENT EFFECTIVE DATE OF FIRM	6/16/2011
FLOOD ZONE	X: AREA OF MINIMAL FLOOD HAZARD
BASE FLOOD ELEVATION (DFE)	NOT APPLICABLE

THE SHEETS IN THIS BUILDING AND SITE COMPLIANCE PLAN MEET ALL KNOWN REQUIRED DEVELOPMENT STANDARDS.

Final Site Compliance Plan # 23601-00065				
Drawer E #	Storm CC #	R/W Permit	No DPS Improvements to the Right-of-Way	Other Associated Plans:
				DGP DGP RESPONSE

PREPARED BY:



CML Barnett Branch Addition/Renovation

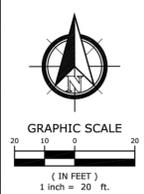
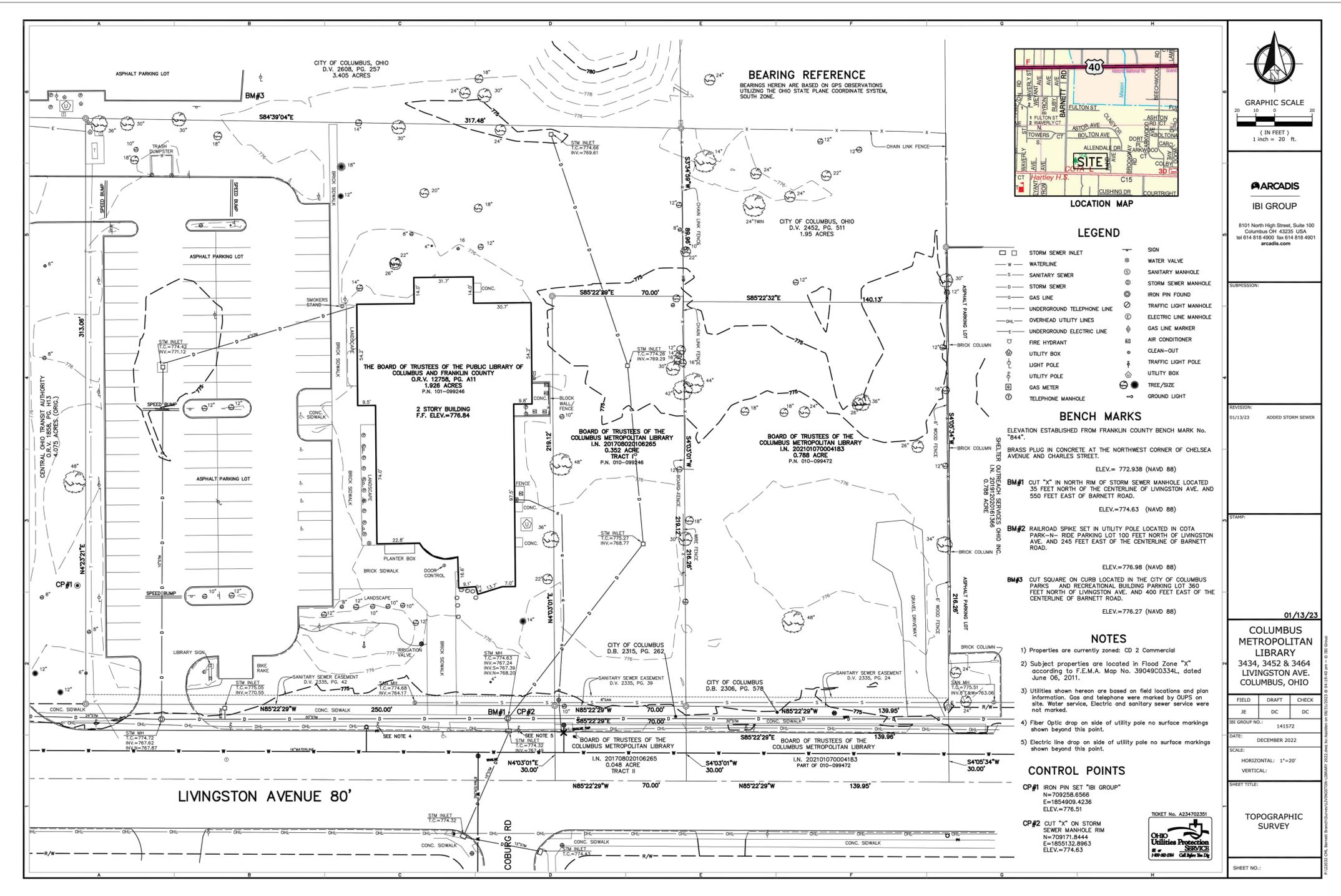
3434 E Livingston Ave, Columbus, OH 43227

NOT FOR CONSTRUCTION

Civil Cover Block

Civil
C100

Issue Date
22160



LEGEND

□	STORM SEWER INLET	⊕	SIGN
—	WATERLINE	⊕	WATER VALVE
—	SANITARY SEWER	⊕	SANITARY MANHOLE
—	STORM SEWER	⊕	STORM SEWER MANHOLE
—	GAS LINE	⊕	IRON PIN FOUND
—	UNDERGROUND TELEPHONE LINE	⊕	TRAFFIC LIGHT MANHOLE
—	OVERHEAD UTILITY LINES	⊕	ELECTRIC LINE MANHOLE
—	UNDERGROUND ELECTRIC LINE	⊕	GAS LINE MARKER
⊕	FIRE HYDRANT	⊕	AIR CONDITIONER
⊕	UTILITY BOX	⊕	CLEAN-OUT
⊕	LIGHT POLE	⊕	TRAFFIC LIGHT POLE
⊕	UTILITY POLE	⊕	UTILITY BOX
⊕	GAS METER	⊕	TREE/SIZE
⊕	TELEPHONE MANHOLE	⊕	GROUND LIGHT

BENCH MARKS
ELEVATION ESTABLISHED FROM FRANKLIN COUNTY BENCH MARK NO. 8444.
BRASS PLUG IN CONCRETE AT THE NORTHWEST CORNER OF CHELSEA AVENUE AND CHARLES STREET.
ELEV. = 772.938 (NAVD 88)
BM#1 CUT "X" IN NORTH RIM OF STORM SEWER MANHOLE LOCATED 35 FEET NORTH OF THE CENTERLINE OF LIVINGSTON AVE. AND 550 FEET EAST OF BARNETT ROAD.
ELEV. = 774.63 (NAVD 88)
BM#2 RAILROAD SPIKE SET IN UTILITY POLE LOCATED IN COTA PARK-N-RISE PARKING LOT 100 FEET NORTH OF LIVINGSTON AVE. AND 245 FEET EAST OF THE CENTERLINE OF BARNETT ROAD.
ELEV. = 776.98 (NAVD 88)
BM#3 CUT SQUARE ON CURB LOCATED IN THE CITY OF COLUMBUS PARKS AND RECREATION BUILDING PARKING LOT 360 FEET NORTH OF LIVINGSTON AVE. AND 400 FEET EAST OF THE CENTERLINE OF BARNETT ROAD.
ELEV. = 776.27 (NAVD 88)

- NOTES**
- Properties are currently zoned: CD 2 Commercial
 - Subject properties are located in Flood Zone "X" according to F.E.M.A. Map No. 39048C0334L, dated June 06, 2011.
 - Utilities shown hereon are based on field locations and plan information. Gas and telephone were marked by OUPS on site. Water service, Electric and sanitary sewer service were not marked.
 - Fiber Optic drop on side of utility pole no surface markings shown beyond this point.
 - Electric line drop on side of utility pole no surface markings shown beyond this point.

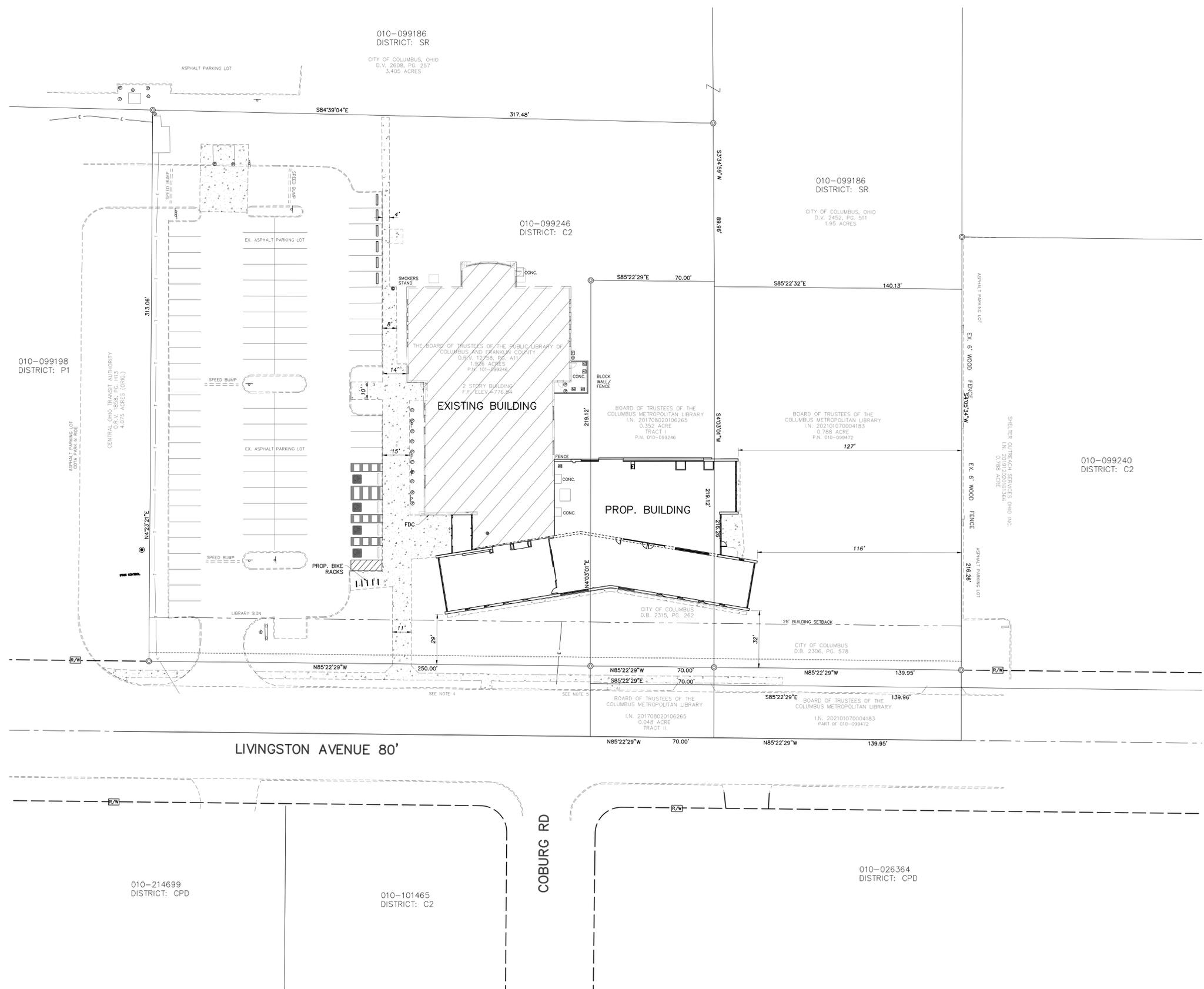
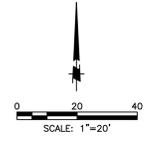
CONTROL POINTS
CP#1 IRON PIN SET "BI GROUP"
N=709258.6566
E=1854909.4236
ELEV.=776.51
CP#2 CUT "X" ON STORM SEWER MANHOLE RIM
N=709171.8444
E=1855132.8963
ELEV.=774.63

01/13/23

COLUMBUS METROPOLITAN LIBRARY
3434, 3452 & 3464 LIVINGSTON AVE. COLUMBUS, OHIO

FIELD	DRAFT	CHECK
JE	DC	DC

IBI GROUP NO.: 141572
DATE: DECEMBER 2022
SCALE: HORIZONTAL: 1"=20'
VERTICAL:
SHEET TITLE: TOPOGRAPHIC SURVEY
SHEET NO.:



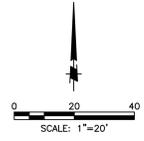
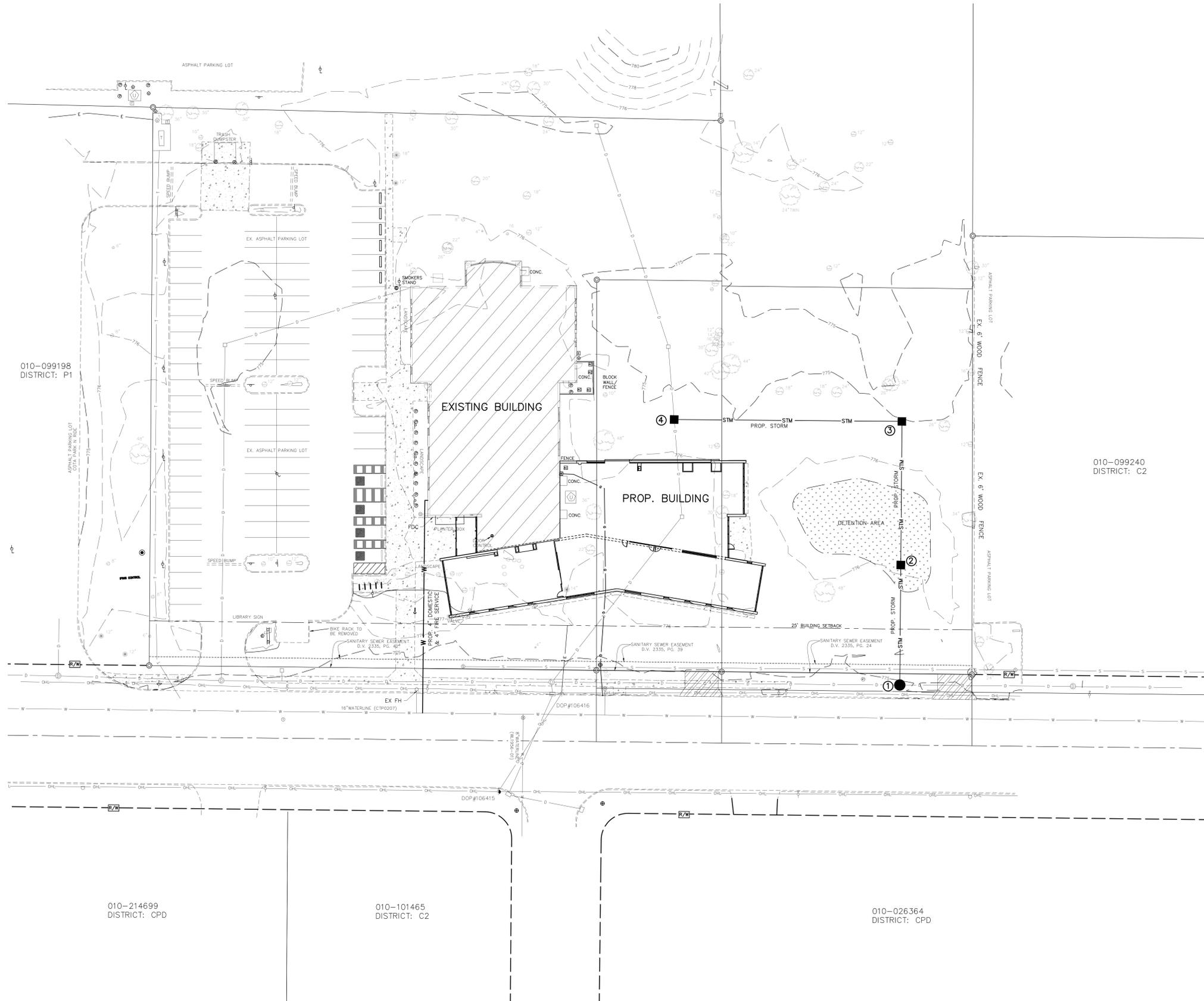
PREPARED BY:
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

CML Barnett
Branch
Addition/Renovation
3434 E Livingston Ave,
Columbus, OH 43227

NOT FOR CONSTRUCTION

Site Plan

Civil
C102
Issue Date
22160



LEGEND

- □ STORM SEWER INLET
- W — WATERLINE
- S — SANITARY SEWER
- D — STORM SEWER
- G — GAS LINE
- T — UNDERGROUND TELEPHONE LINE
- OH — OVERHEAD UTILITY LINES
- U — UNDERGROUND ELECTRIC LINE
- FIRE HYDRANT
- ⊕ UTILITY BOX
- ⊕ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ GAS METER
- ⊕ TELEPHONE MANHOLE
- ⊕ SIGN
- ⊕ WATER VALVE
- ⊕ SANITARY MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ IRON PIN FOUND
- ⊕ TRAFFIC LIGHT MANHOLE
- ⊕ ELECTRIC LINE MANHOLE
- ⊕ GAS LINE MARKER
- ⊕ AIR CONDITIONER
- ⊕ CLEAN-OUT
- ⊕ TRAFFIC LIGHT POLE
- ⊕ UTILITY BOX
- ⊕ TREE/SIZE
- ⊕ GROUND LIGHT
- W — PROPOSED WATER LINE
- S — PROPOSED STORM LINE
- G — PROPOSED GAS LINE
- ▨ REMOVAL OF EXISTING ACCESS POINT ALONG E LIVINGSTON AVENUE, CURB AND LANDSCAPE TO BE REESTABLISHED.

CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Site Utility Plan

C103

Issue Date
22160

GENERAL NOTES

A. BASE INFORMATION

- 1. THE BASE MAPPING / SURVEY WAS PREPARED BY ARCADIS. 8101 NORTH HIGH STREET, SUITE 100, COLUMBUS, OH 43235. 6148184900. FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK.
2. THE PLANS ASSUME THE LAYOUT AND STAKING WILL BE ACCOMPLISHED USING TOTAL STATIONING/DIGITAL METHODS. ANY INFORMATION PROVIDED IS INTENDED TO SUPPORT INFORMATION ALREADY CONTAINED IN CAD FILES USED FOR DOCUMENTING LAYOUT AND STAKING. CAD FILES DELINEATING ALL GRADING AND HARDSCAPE ELEMENTS SHOWN IN THESE PLANS CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
3. NORTHING AND EASTING POINTS, WHERE SHOWN ARE BASED ON STATE PLANE COORDINATE SYSTEM AS REFERENCED FROM THE SITE SURVEY.
4. THE LIMIT OF CONSTRUCTION WORK LINE SHOWN DEFINES THE LIMITS OF WORK IN THIS CONTRACT. EROSION PROTECTION DEVICES AND UTILITY SYSTEMS MAY EXTEND BEYOND THE PROJECT LIMITS LINE IN ORDER TO SUCCESSFULLY COMPLETE OPERATIONS AND / OR TIE INTO ADJACENT SYSTEMS.
5. LIMITS OF CONSTRUCTION AND CONTRACTOR STAGING AREAS SHALL BE LIMITED TO AREAS DESIGNATED BY THE CONTRACT DOCUMENTS.

B. GENERAL REQUIREMENTS

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH PROJECT DRAWINGS AND SPECIFICATIONS FOR ALL DIVISIONS OF WORK.
2. VERIFY EXISTING CONDITIONS AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE PERFORMED WHERE SUCH DISCREPANCIES EXIST. COMMENCEMENT OF CONSTRUCTION INDICATES THE CONTRACTOR ACCEPTS THE ACTUAL SITE CONDITIONS AS MATCHING THE EXISTING CONDITIONS DEPICTED ON THE PROJECT DOCUMENTS AND ASSUMES FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS TO WORK CONSTRUCTED UNDER HIS CONTRACT.
3. PRIOR TO COMMENCING WORK, REPORT AND DOCUMENT ANY DAMAGE OF EXISTING SITE STRUCTURES AND AMENITIES "TO REMAIN" TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT DAMAGE AT NO COST TO THE OWNER OR LANDSCAPE ARCHITECT.
4. COORDINATE WORK RELATED TO OTHER TRADES AND THE GENERAL CONSTRUCTION OF THE PROJECT. ALL MEANS, METHODS, SEQUENCING AND PROCEDURES OF THE WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. VERIFY THE CONDITION AND COMPLETENESS OF ALL WORK PERFORMED BY OTHERS RELATED TO THEIR WORK RESPONSIBILITIES INCLUDING THE VERIFICATION OF EXISTING ELEVATIONS OR STRUCTURES PRIOR TO INITIATING CONSTRUCTION. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF ANY SITE CONDITIONS ARE INCOMPLETE, MISSING OR DAMAGED.
6. NOTIFY OWNER'S REPRESENTATIVE 72 HOURS IN ADVANCE OF ANY PLANNED UTILITY INTERRUPTION.

C. PROTECTION

- 1. CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, HUBS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IF ANY PINS OR MONUMENTS ARE DISTURBED, DAMAGED, OR DESTROYED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED PROFESSIONAL SURVEYOR AT THE COMPLETION OF THE PROJECT AND AT THE CONTRACTOR'S EXPENSE.
2. KNOWN EXISTING UTILITY LINES ARE NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROTECTING THEM DURING EXCAVATION. ANY DAMAGE TO UTILITIES AND ANY OTHER PROPERTY TO REMAIN SHALL BE REPAIRED IN KIND. IF CONTRACTOR ENCOUNTERS ANY UNFORESEEN UTILITY, NOTIFY THE OWNER'S REPRESENTATIVE FOR FURTHER DIRECTION PRIOR TO PROCEEDING WITH THE WORK.
3. CONTACT THE OHIO UTILITY PROTECTION SERVICE A MINIMUM OF 48 HOURS IN ADVANCE OF WORK TO BE PERFORMED WITHIN THE CONSTRUCTION SITE AND IS RESPONSIBLE FOR COORDINATING ANY RELOCATIONS OR ADJUSTMENT/REPLACEMENT OF AFFECTED UTILITIES AND APPURTENANCES.
4. OBTAIN PERMITS AND TEMPORARY EASEMENTS FOR THE WORK AS REQUIRED AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCAL JURISDICTION, THE STATE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
5. INSTALL TEMPORARY FENCING AND MAINTAIN THE SOIL AND CRITICAL ROOT PROTECTION ZONES AS INDICATED ON DRAWINGS. LANDSCAPE ARCHITECT TO APPROVE INSTALLATION OF FENCING BEFORE EQUIPMENT OR MATERIALS ARE BROUGHT ONTO THE SITE AND CONSTRUCTION OPERATIONS BEGIN.

D. PUBLIC SAFETY

- 1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE CITY AND AUTHORITIES HAVING JURISDICTION. FOLLOW MAINTENANCE OF TRAFFIC PLANS.
2. PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND CITY PRACTICES. EGRESS AND INGRESS TO ALL BUILDINGS MUST BE MAINTAINED AT ALL TIMES.
3. PROVIDE FOR SAFE VEHICULAR AND PEDESTRIAN PASSAGE THROUGH THE CONSTRUCTION SITE AT ALL TIMES BY THE USE OF TRAFFIC CONTROL DEVICES, BARRICADES, SIGNAGE, PLATING TEMPORARY ACCESS WALKS AND DRIVES, FLAGMEN OR OTHER RECOGNIZED PROTECTIVE METHODS.
4. CONTACT THE CITY ENGINEER TRAFFIC DIVISION 72 HOURS IN ADVANCE OF ANY PROPOSED ROAD CLOSURES IN ORDER THAT THE PUBLIC AND SAFETY OFFICIALS CAN BE NOTIFIED. THE TRAFFIC DIVISION SHALL BE NOTIFIED OF ANY PROPOSED LANE CLOSURES NOTING THE ANTICIPATED DURATION OF SUCH CLOSURE AND THE TRAFFIC CONTROL MEASURES TO BE USED.
5. TAKE CORRECTIVE ACTIONS FOR TRAFFIC MAINTENANCE IMMEDIATELY AS DIRECTED.

E. EROSION CONTROL

- 1. PROVIDE TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL ITEMS AS REQUIRED BY GOVERNING AGENCY, AS REQUIRED BY PERMIT, AS INDICATED ON THE PLANS, AND AS NOTED IN THE SPECIFICATIONS. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CLEARING AND COMMENCING EARTHWORK.
2. ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING CONDITIONS.
3. MAINTAIN, KEEP CLEAN AND FULLY OPERATIONAL SITE DRAINAGE FACILITIES AND EXISTING EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/OR OTHER MEASURES) DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS TO THE ADJACENT WATER BODIES, SURFACES AND STORM SEWERS ACCORDING TO ALL APPLICABLE FEDERAL/STATE LAWS AND REGULATIONS.
4. STORMWATER BMP'S SHALL BE INSPECTED ONCE EVERY SEVEN DAYS, AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAINFALL, OR BY WHAT IS REQUIRED BY PERMIT, WHICHEVER IS GREATER. CLEAN SEDIMENT BASINS AND CATCH BASINS AS REQUIRED TO MAINTAIN EFFECTIVENESS OR AS DIRECTED.

F. SITE CLEANING

- 1. PROVIDE APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION TO PREVENT AIRBORNE DUST TO ADJACENT CITY PROPERTIES AND WALKWAYS.
2. MAINTAIN THE CONSTRUCTION SITE AT ALL TIMES IN A PRESENTABLE CONDITION ACCEPTABLE TO THE OWNER UNTIL THE COMPLETION AND ACCEPTANCE OF THE PROJECT. MAINTAIN ADJOINING STREETS, SIDEWALKS AND DRIVES FREE OF SOIL, MUD AND EXCESS CONSTRUCTION MATERIALS. BROOM SWEEP OR WASH AS NEEDED OR DIRECTED.
3. REPAIR OR REPLACE DAMAGED UTILITIES, PAVEMENTS, STRUCTURES, LANDSCAPING, STREET SIGNS AND MONUMENTS WITHIN THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR, SUB CONTRACTOR, SUPPLIES OR WORKERS. SUCH REPAIR OR REPLACEMENT SHALL BE "IN-KIND" AS DIRECTED. PROTECT ALL WORK AND PROPERTY WITHIN THE CONSTRUCTION SITE.
4. REMOVE AND DISPOSE OF LEGALLY ALL RUBBISH AND CONSTRUCTION DEBRIS IMMEDIATELY, UNLESS OTHERWISE INDICATED ON DRAWINGS.

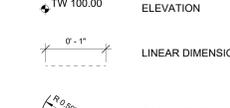
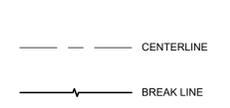
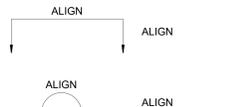
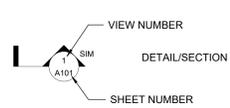
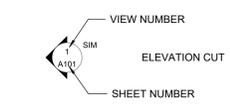
G. GRADING NOTES

- 1. PRIOR TO CONSTRUCTION, VERIFY EXISTING GRADES AND CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE.
2. PROPOSED GRADES AND CONTOURS ARE INTERPOLATED FROM THE BEST INFORMATION AVAILABLE. ALL PROPOSED GRADES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. GRADES SHOWN INDICATE FINISH GRADE. VERIFY DEPTH OF PAVEMENT SECTIONS AND SOIL MIX PROFILES PRIOR TO ROUGH GRADING.
4. MAXIMUM SLOPE IN LANDSCAPE AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE INDICATED.
5. ALL SURFACES SHALL BE CONSTRUCTED TO POSITIVELY DRAIN AWAY FROM VERTICAL ELEMENTS SUCH AS BUILDINGS, WALLS, COLUMNS, ETC. AND INTO DRAINAGE STRUCTURES SHOWN.
6. MAXIMUM RUNNING SLOPES AT WALKWAYS SHALL NOT EXCEED 5.0%.
7. MAXIMUM CROSS SLOPES AT WALKWAYS SHALL NOT EXCEED 2.0%.
8. MATCH GRADES WITH ADJACENT SURFACES SO THAT ALL ABUTTING SURFACES ARE FLUSH.
9. COMPACT ALL SUBGRADE AS SPECIFIED TO PROVIDE FULL STRENGTH BEARING WITHOUT SETTLEMENT FOR ALL PAVEMENTS, CURBS, STRUCTURES, AND SITE FEATURES.
10. PROMPTLY REMOVE SOIL AND DEBRIS CREATED FROM GRADING OPERATIONS FROM PAVED AREAS. CLEAN WHEELS OF VEHICLES BEFORE LEAVING SITE TO AVOID TRACKING SOIL ONTO SURFACES OF ROADS, WALKS OR OTHER PAVED SURFACES.
11. REFER TO GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

PROJECT SPECIFIC NOTES:

- 1. CAREFULLY REMOVE, CLEAN AND PACK ITEMS DESIGNATED TO BE SALVAGED. TRANSPORT ITEMS TO OWNER.
2. PROVIDE AND PLACE APPROVED PLANTING SOIL MIX OR MIXES FOR DESIGNATED LANDSCAPE AREAS TO REQUIRED GRADES AS NOTED ON DRAWINGS. REFER TO SOILS PLAN FOR DEPTHS OF PLANTING SOIL MIXES.

Table with 2 columns: Abbreviation and Description. Includes terms like ANCHOR BOLT, AMERICANS WITH DISABILITIES ACT, QUANTITY, RADIUS, etc.



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Drawing Issue Dates

Schematic Design Plus Submittal 9/1/2023
Design Development Submittal 10/11/2023

Revision Schedule

Table with 3 columns: #, Description, Date

CML BARNETT BRANCH ADDITION/ RENOVATION

3434 E. LIVINGSTON AVE. COLUMBUS, OH 43227

NOT FOR CONSTRUCTION

INDEX, NOTES, & LEGENDS

L0.01

10/11/2023

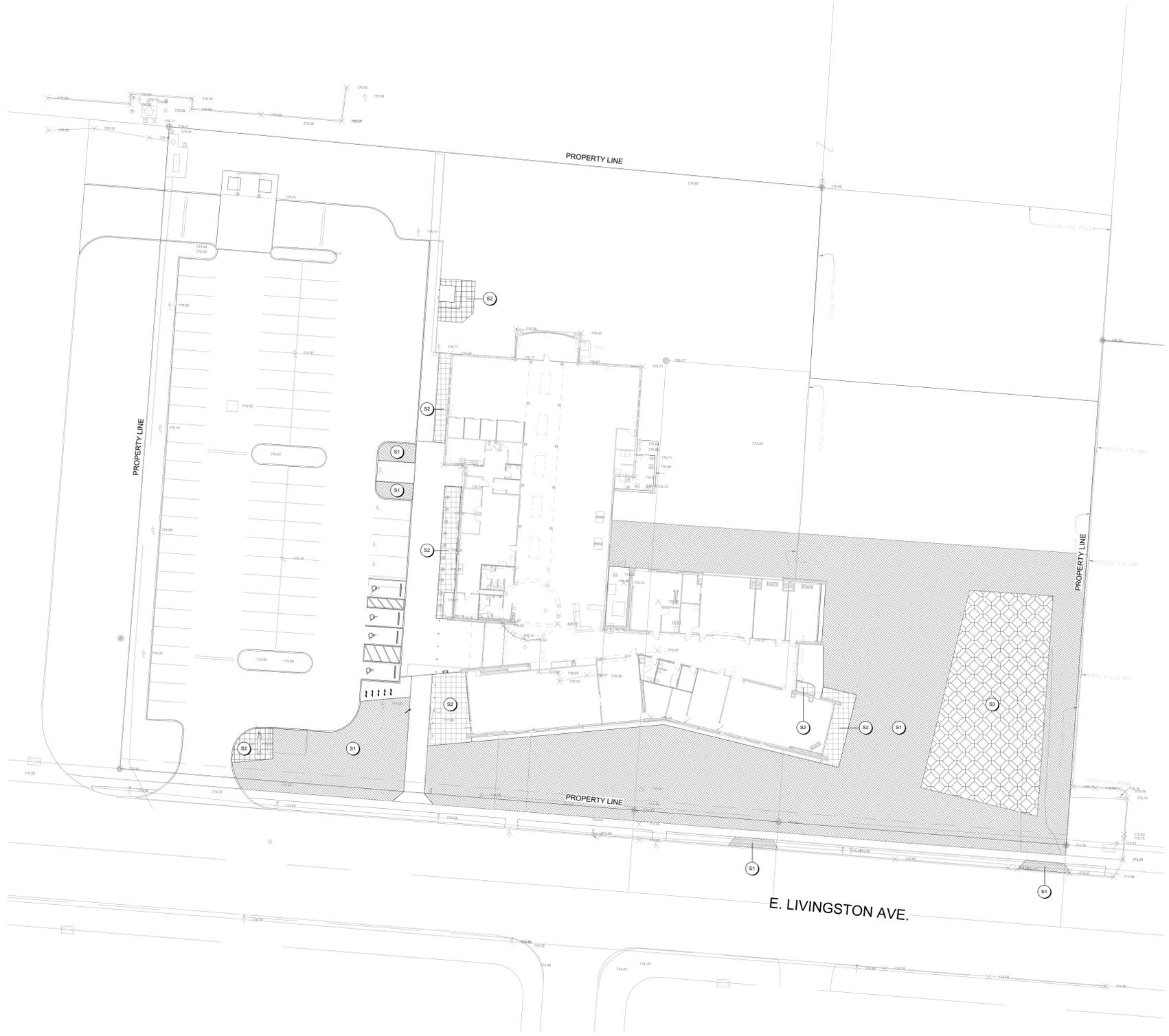
C22301

SOILS NOTES

- DO NOT EXCAVATE WITHIN SOIL PRESERVATION/TREE PROTECTION AREAS UNLESS OTHERWISE INDICATED. REFER TO DEMOLITION PLAN AND/OR TREE PROTECTION PLANS FOR ADDITIONAL INFORMATION.
- SITE SALVAGED SOILS SCHEDULED FOR REDISTRIBUTION, MUST BE TESTED AND AMENDED OFF-SITE PRIOR TO OWNER'S REPRESENTATIVE ACCEPTANCE FOR USE AND REDISTRIBUTION.
- SUBGRADE SOILS FOR TURFGRASS AND PLANTING AREAS MUST BE DECOMPACTED BY RIPPING SOILS AS DESCRIBED IN EACH PLANTING SOIL MIX SPECIFICATION.
- AREAS WITHIN GRADING LIMITS OR DISTURBED BY CONSTRUCTION ACTIVITIES SHALL HAVE EXISTING SOILS DECOMPACTED AND REPAIRED TO ORIGINAL STATE OR PROPOSED PROJECT CONDITIONS. OWNER'S REPRESENTATIVE TO REVIEW AND APPROVE SOILS AND REPAIRS PRIOR TO REPAIR WORK COMMENCING.
- PLANTING SOIL MIX DEPTHS INDICATED ARE POST COMPACTION AND SETTLEMENT DEPTHS REPRESENTING FINAL GRADE WITHIN SPECIFIED COMPACTION AND GRADING TOLERANCES. COMPENSATE FOR SETTLING AND COMPACTION AS NECESSARY.
- EXCAVATE AND CONFIRM PLANTING AREA SUBGRADES ARE TO THE DEPTHS NOTED ON SOIL DRAWINGS AND DETAILS. WHERE EXCAVATION IS TOO DEEP, BACKFILL WITH EXISTING SOILS AND COMPACT TO 85 - 90% PROCTOR. DO NOT START THE SOIL MIX INSTALLATION UNTIL SUB-GRADE CONDITIONS HAVE BEEN CORRECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PROJECT MANUAL SPECIFICATIONS FOR PLANTING SOIL MIX AND FINISH GRADING APPLY.

SOILS LEGEND

LABEL	GRAPHIC	ITEM
S1		SOIL PROFILE - LAWN 4" DEPTH
S2		SOIL PROFILE - PLANTING BED 12" DEPTH
S3		SOIL PROFILE - BIORETENTION 18" DEPTH



1 SOILS PLAN
SCALE: 1" = 20'-0"



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SOILS PLAN

L2.01
10/11/2023

C22301

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Drawing Issue Dates

Schematic Design Plus Submittal
9/1/2023
Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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PLANTING NOTES

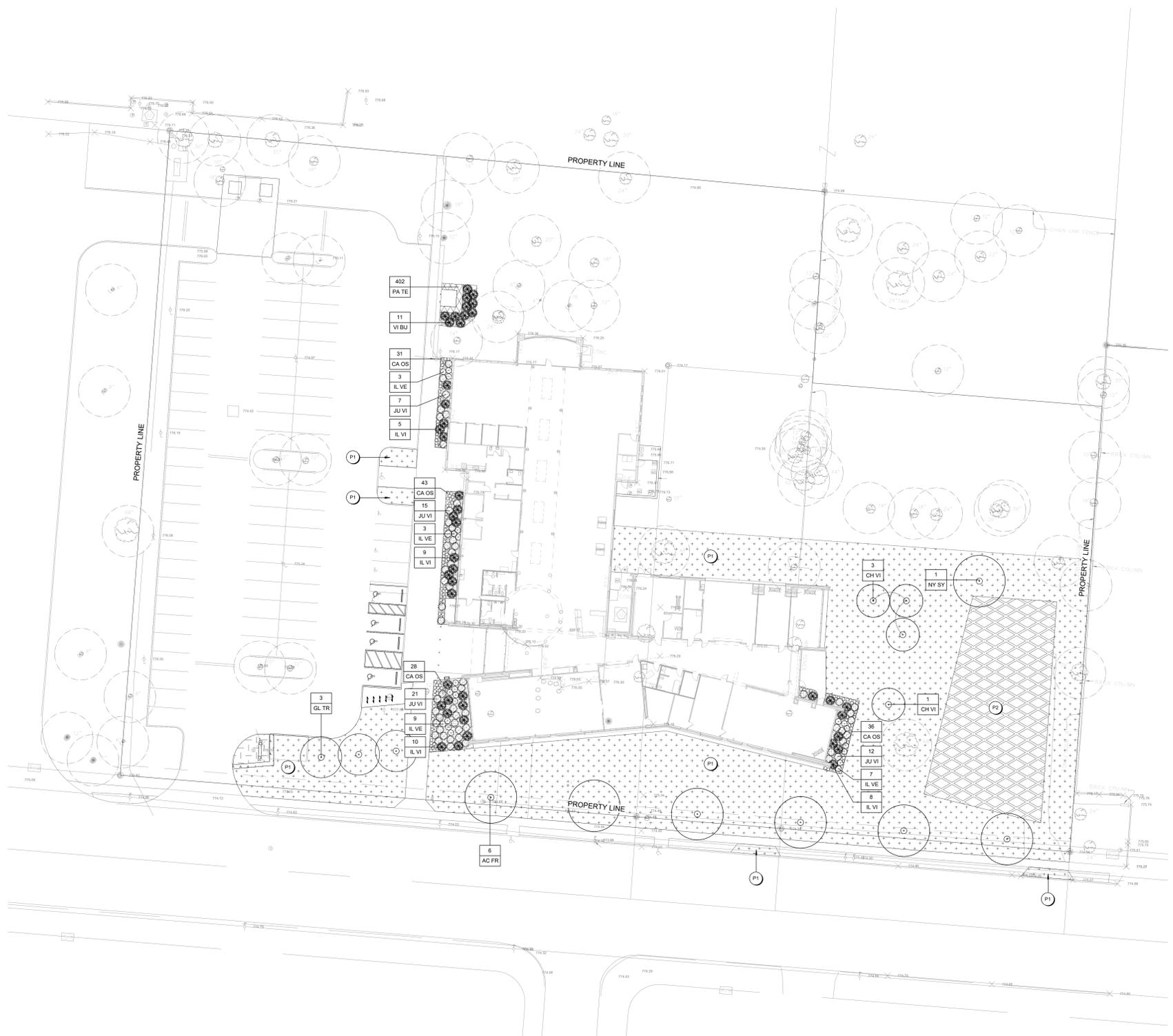
1. SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. SUBSTITUTIONS FOR PLANT MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.
2. PROVIDE PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE LANDSCAPE ARCHITECT FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
3. PROTECT PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
4. PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
5. VERIFY PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
6. STAKE BED LINES AND TREE LOCATIONS FOR THE LANDSCAPE ARCHITECT'S REVIEW PRIOR TO INSTALLATION. PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
7. REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF PLANTING PITS AND BEDS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
8. ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
9. TEST FILL EACH TREE AND PLANTING PIT WITH WATER. PRIOR TO PLANTING TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER SCARIFIED ALONG OUTER EDGES AND SIDES OF PIT. DO NOT DISTURB AREA SUPPORTING TREE BALL. REPEAT TEST. ALLOWANCES WILL NOT BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE.
10. PLANT MATERIALS, INCLUDING RELOCATED PLANT MATERIAL, SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS OF THE AREA TO ASSURE COMPLETE SURVIVABILITY OF PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT.
11. REMOVE PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.
12. PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION AND MAINTAINED WEED FREE THROUGH FINAL ACCEPTANCE.

SCHEDULE-TREES, SHRUBS, PERENNIALS, & GRASS

ITEM CODE	BOTANICAL NAME	COMMON NAME	CONDITION	SIZE	COUNT
PERENNIALS					
CA OS	Carex oshimensis 'Feather Falls'	Variegated Japanese Sedge			139
SHRUBS					
IL VE	Ilex verticillata	Mr. Poppins Winterberry	B&B	24"Tx 24"W MIN.	22
IL VI	Forsythia 'Meadowlark'	Meadowlark Forsythia	B&B	24"Tx 24"W MIN.	32
JU VI	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	B&B	24"Tx 24"W MIN.	55
VI BU	Viburnum x burkwoodii	Burkwood Viburnum	#5 CONT.	3' HT.	11
TREES					
AC FR	Acer x freemanii 'Celzam'	Celebration Maple	B&B	3" CALIPER	6
CH VI	Chionanthus virginicus	White Fringetree	B&B	8' CLUMP	4
GL TR	Gleditsia triacanthos var. inermis	Thornless Honeylocust	B&B	3" CALIPER	3
NY SY	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	B&B	2" CALIPER	1

SCHEDULE-PLANTING

ITEM CODE	BOTANICAL NAME	COMMON NAME	CONDITION
PA TE	Pachysandra Terminalis 'Green Sheen'	Green Sheen Pachysandra	SEED
P1		Lawn Seeded	SEED
P2		Bio-Retention Mix	SEED



1 PLANTING PLAN
1" = 20'-0"



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PLANTING PLAN

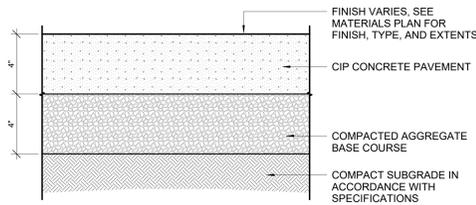
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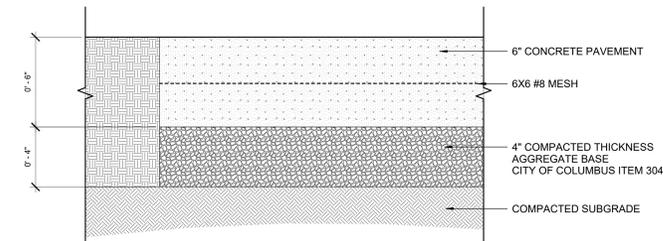
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Revision Schedule		
#	Description	Date

NOTES:
1. EXPANSION AND CONTROL JOINTS AS SHOWN ON PLAN.
2. PROVIDE FINISHING ON CONCRETE SURFACES AFTER EDGE TOOLING. PROVIDE 1/4" RAD. ON ALL SLAB EDGES.
3. CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR REVIEW AND APPROVAL PRIOR TO PAVING.

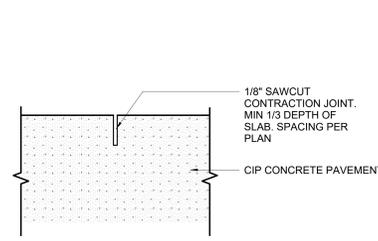


1 CONCRETE PAVEMENT
SCALE: 3" = 1'-0"

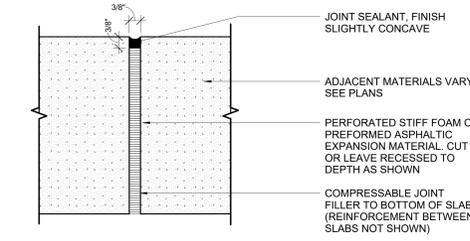


2 Z DUMPSTER PAD AND APPROACH
SCALE: 3" = 1'-0"

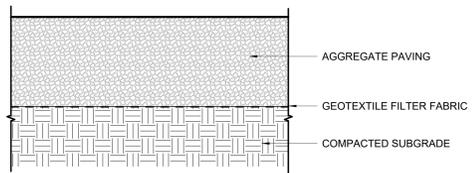
NOTE:
1. SEE LAYOUT PLANS FOR EXPANSION JOINT LOCATIONS.



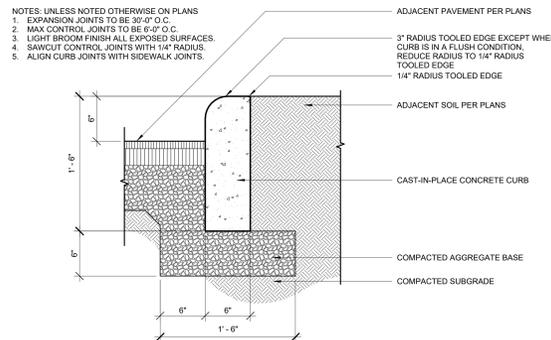
3 SAWCUT/CONTRACTION JOINT
SCALE: 6" = 1'-0"



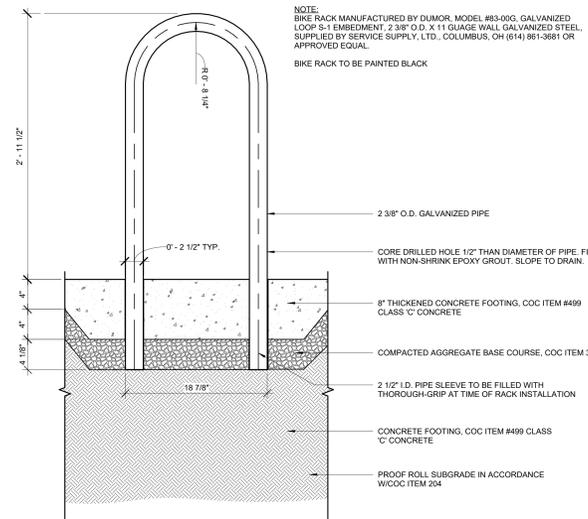
4 EXPANSION / ISOLATION JOINT - TYPICAL
SCALE: 6" = 1'-0"



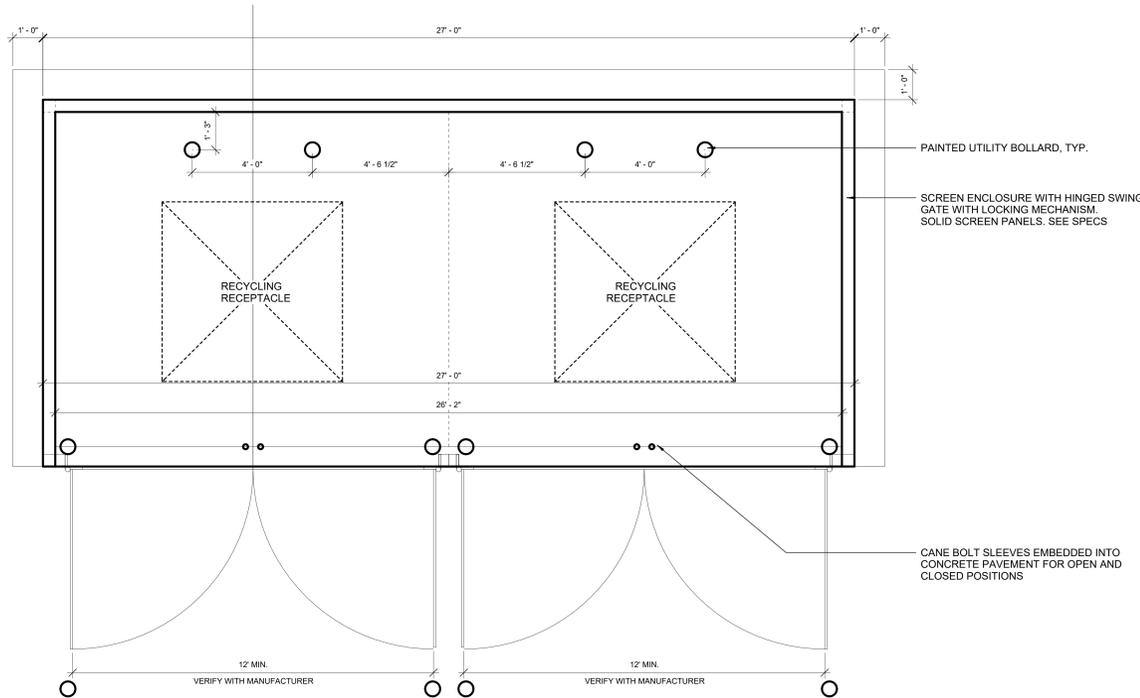
5 AGGREGATE PAVING
SCALE: 3" = 1'-0"



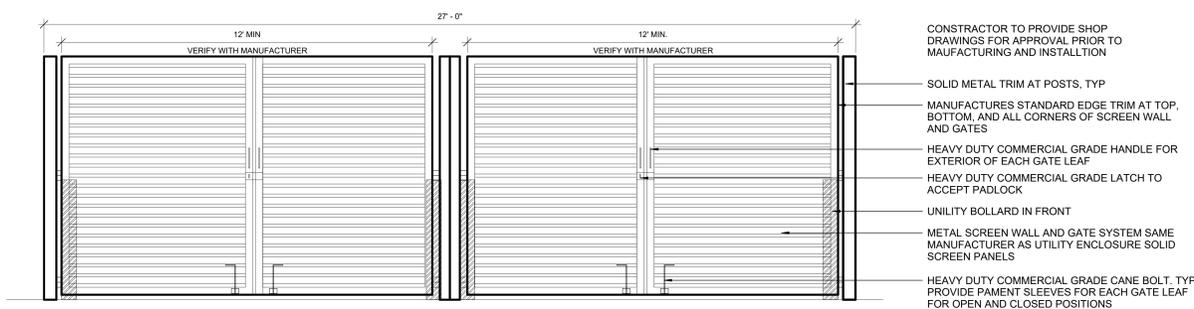
6 STRAIGHT CONCRETE CURB - STANDARD 3" RADIUS
SCALE: 1 1/2" = 1'-0"



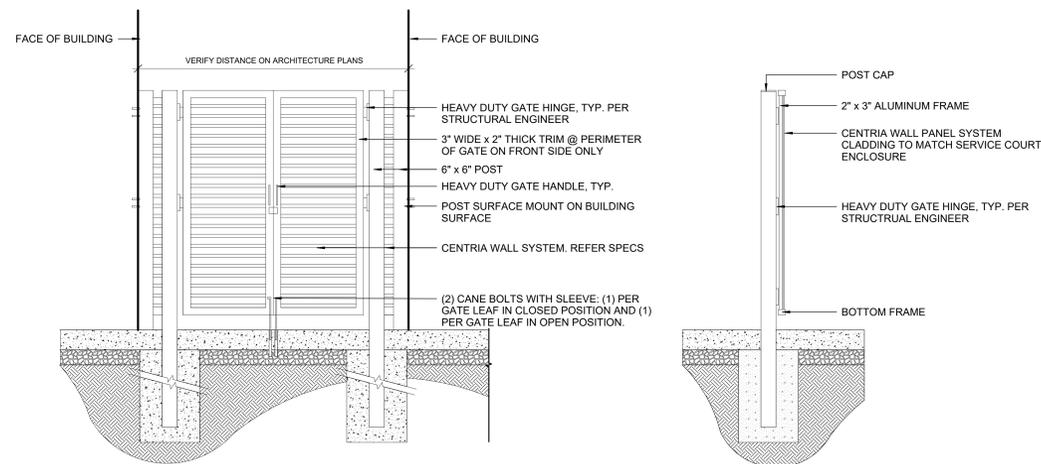
7 Loop Bike Rack
SCALE: 1 1/2" = 1'-0"



8 DUMPSTER LAYOUT
SCALE: 1/2" = 1'-0"



9 DUMPSTER ELEVATION
SCALE: 1/2" = 1'-0"



10 UTILITY SCREENING
1/2" = 1'-0"

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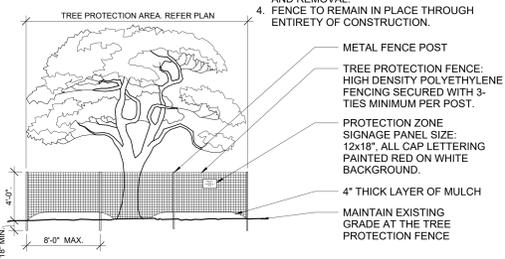
SITE DETAILS

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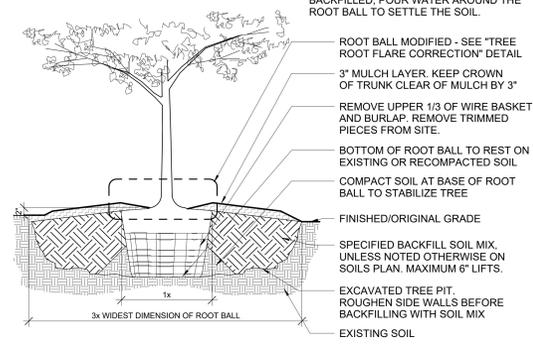
C22301

- NOTE:
- SEE SECTION 01 56 39 - TEMPORARY TREE AND PLANT PROTECTION FOR FENCING AND PRUNING REQUIREMENTS.
 - LIMS AND PRUNING OF TREES SHALL BE PERMITTED ONLY AT THE DIRECTION OF THE APPROVED AND CERTIFIED ARBORIST.
 - NO EQUIPMENT SHALL BE PERMITTED INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 - FENCE TO REMAIN IN PLACE THROUGH ENTIRETY OF CONSTRUCTION.



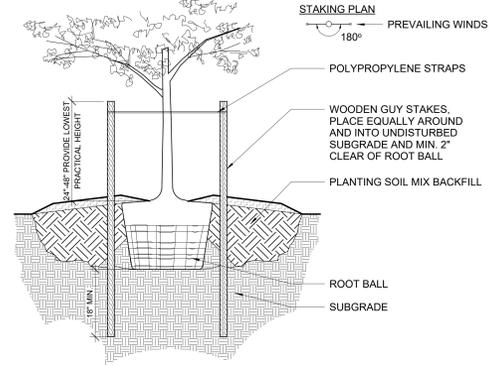
1 TREE PROTECTION ZONE
SCALE: N.T.S.

- NOTE:
- POSITION CROWN OF ROOT BALL 2" ABOVE FINISHED GRADE AND ON-CENTER OF EXCAVATED HOLE.
 - PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.

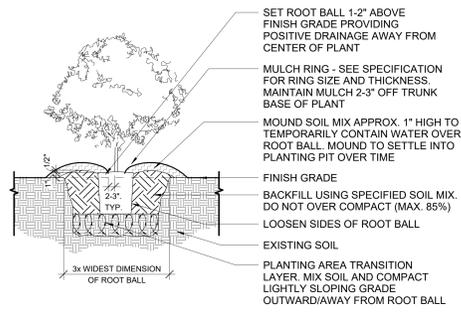


2 TREE PLANTING DETAIL (OPEN AREAS - LAWNS/MEADOWS)
SCALE: 3/4" = 1'-0"

STAKING PLAN

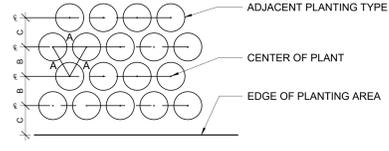


3 TREE STAKING DETAIL (3" CAL. OR SMALLER)
SCALE: 3/4" = 1'-0"



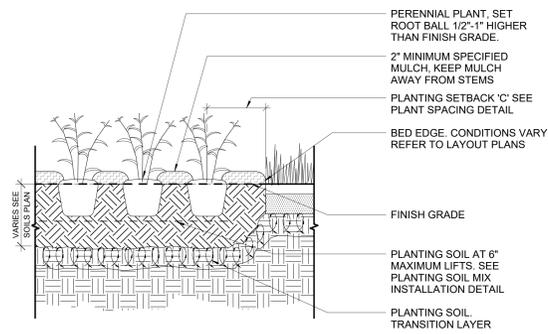
4 SHRUB PLANTING DETAIL (INDIVIDUAL PLANTING)
SCALE: 1" = 1'-0"

- NOTE:
- LAYOUT PLANTS ALONG PERIMETER OF PLANTING BED FIRST, PARALLEL TO AND UNIFORMLY OFFSET FROM EDGE OF BED. FILL OUT INTERIOR OF BED ON UNIFORM GRID AS SHOWN.



6 PLANT SPACING TYPICAL
SCALE: 1" = 1'-0"

TRIANGULAR SPACING = A	DISTANCE BETWEEN ROW=B	TOTAL AREA (SF) PER PLANT
6"	5"	0.21
8"	7"	0.39
9"	8"	0.50
10"	8 1/2"	0.59
12" (1')	10 1/2"	0.88
15"	13"	1.35
18"	15 1/2"	1.94
21"	18"	2.63
24" (2')	21"	3.50
30"	26"	5.42
36" (3')	31"	7.80
48" (4')	42"	13.84

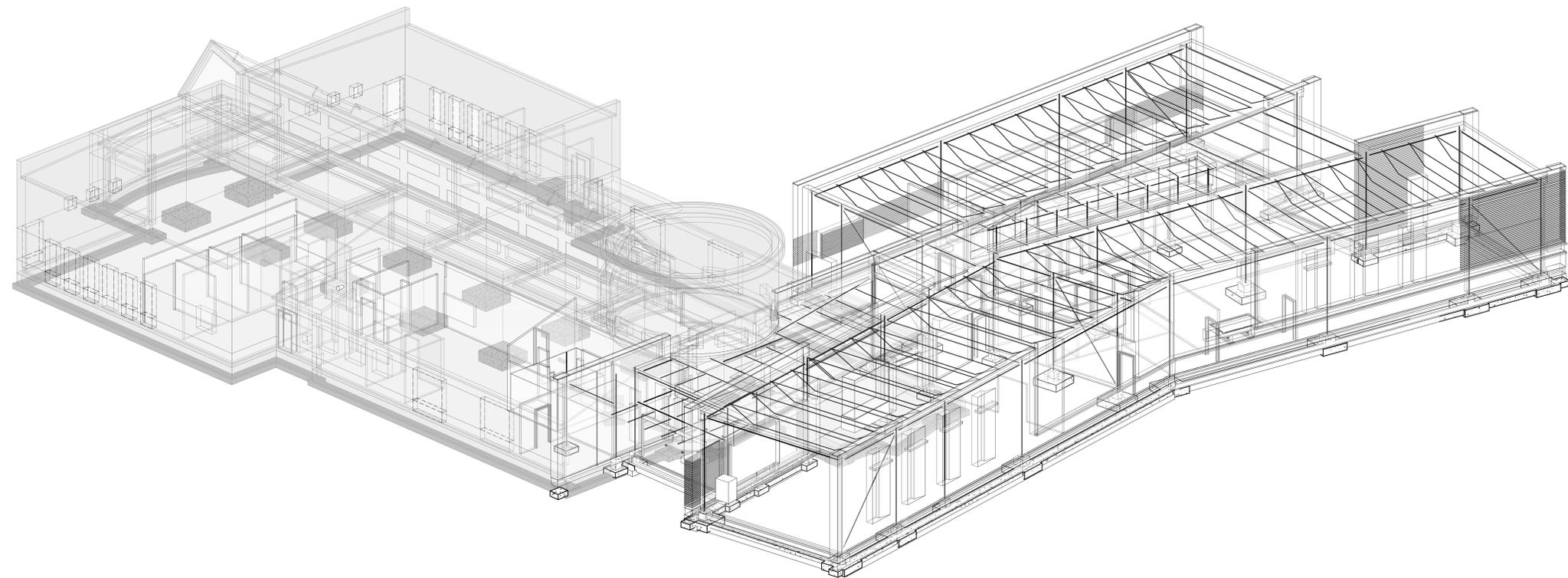


5 PERENNIAL PLANTING
SCALE: 1" = 1'-0"

SMBH SHEET LIST	
NUMBER	NAME
S001	STRUCTURAL COVER SHEET
S002	GENERAL NOTES
S003	SPECIAL INSPECTIONS
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S201	BRACE FRAMING ELEVATIONS & DETAILS
S301	SECTIONS
S401	SECTIONS

ABBREVIATIONS

#	NUMBER	DA	DRILLED ANCHOR	GA	GAGE	N	NORTH	S	SOUTH
#	POUND (S)	DBL	DOUBLE	GALV	GALVANIZED	N/A	NOT APPLICABLE	SC	SLIP CRITICAL
#/FT	POUNDS PER LINEAR FOOT	DBLS	DOUBLE TIES	GC	GENERAL CONTRACTOR	NF	NEAR FACE	SCHED	SCHEDULE
CL	CENTERLINE	DE	DISCONTINUOUS END	GEN	GENERAL	NIC	NOT IN CONTRACT	SECT	SECTION
PL	PLATE	DET	DETAL	GR	GRADE	NO. #	NUMBER	SHT	SHEET
Ø	DIAMETER	DA	DIAMETER	GRND	GROUND	NOM	NOMINAL	SIM	SIMILAR
AB	ANCHOR BOLT	DIAG	DIAGONAL	GRTG	GRATING	NS	NEAR SIDE	SL	SLOPE (S)
ADDL	ADDITIONAL	DN	DIMENSION	H, HORIZ	HORIZONTAL	NTS	NOT TO SCALE	SP	SPACE (S), (ED)
ADJ	ADJACENT	DL	DEAD LOAD	HD	HEADED	NTS	NOT TO SCALE	SPL	SPLICE
AFF	ABOVE FINISHED FLOOR	DR	DISTRIBUTION RIB	HO	HOOK	o/a	OUT TO CUT	SQ	SQUARE
APPROX	APPROXIMATELY	DWG	DRAWING	HS	HIGH-STRENGTH	OC	ON CENTER (S)	SS	STAINLESS STEEL
ARCH	ARCHITECTURAL	DWL	DOWELS	HVAC	HEATING VENTILATING AIR CONDITIONING	OD	OUTSIDE DIAMETER	SSL	SHORT SLOTTED HOLES
B PL	BASE PLATE	E	EAST	ID	INSIDE DIAMETER (DIMENSION)	OF	OUTSIDE FACE	SSR	SHEAR STUD RAILS
B, BOT	BOTTOM	E, EXTG	EXTENDING	IF	INSIDE FACE	OPNG	OPENING	STA	STATION
BLDG	BUILDING	EA	EACH	IN	INCH	OPP	OPPOSITE (H/W/D)	STD	STANDARD
BLK	BLOCK	EE	EACH END	INT	INTERIOR, INTERMEDIATE	OPT	OPTIONAL	STIFF	STIFFENER
BLKG	BLOCKING	EF	EACH FACE	JT	JOINT	ONG	ORIGINAL	STL	STEEL
BM	BEAM	EJ	EXPANSION JOINT	JST	JOIST	OSB	ORIENTED STRAND BOARD	STRCT	STRUCTURE (A)
BRG	BRACING	EL	ELEVATION	JT	JOINT	OSL	OUT STANDING LEG	SVC	SERVICE
BRK	BRICK	ELEV	ELEVATOR	JT	JOINT	OVD	OVERHEAD	SW	SKIRT WAY
BS	BOTH SIDES	ENED	ENRAGED (MENT)	KP	KIP (1000 POUNDS)	OSV	OVERSIZED ROUND HOLES	SIM	SIMMETRICAL
BSHT	BUSHEMENT	ENGR	ENGINEER	KSF	KIPS PER SQUARE FOOT	P/C	PRECAST CONCRETE	T	TOP
BTWN	BETWEEN	EOS	EDGE OF SLAB	LAT	LATERAL	P/F	PURPOSE ACTIVATED FASTENER (S)	T/BT	TOP AND BOTTOM
c/c	CENTER TO CENTER	EQL	EQUAL	LBS, #	POUNDS	PEMB	PRE-ENGINEERED METAL BUILDING	T/	TEMPERATURE, TEMPORARY
CB	CONCRETE BEAM	ES	EACH SIDE	LG	LONG	PLF	POUND PER LINEAR FOOT	THD	THREADED
CE	CONTINUOUS END	EXP	EXPANSION	LL	LONG LOAD	PLW	PLYWOOD	THK	THICK (NESS)
CFM	COLD FORMED METAL FRAMING	EXT	EXTERIOR	LLH	LONG LEG HORIZONTAL	PNL	PANEL	TOS	TOP OF STEEL
CJ	CONTROL JOINT	FAB	FROM ADJACENT BEAM	LLV	LONG LEG VERTICAL	PROJ	PROJECT	TOSL	TOP OF SLAB
CLR	CLEAR	FABR	FABRICATE (OR)	LNTL	LINTEL	PSF	POUNDS PER SQUARE FOOT	TOT	TOTAL
CMU	CONCRETE MASONRY UNIT	FD	FLOOR DRAIN	LDC	LOCATION	PREL	PRELIMINARY	TYP	TYPICAL
COL	COLUMN	FTE	FINISHED FLOOR ELEVATION	LSH	LONG SIDE HORIZONTAL	PSI	POUNDS PER SQUARE INCH	UN	UNLESS NOTED
CONC	CONCRETE	FN	FINISHED	LSL	LONG SLOTTED HOLES	PSL	PARALLEL STRAND LUMBER	UNO	UNLESS NOTED OTHERWISE
CONN	CONNECT (ION)	FL	FULL LENGTH	LSV	LONG SIDE VERTICAL	QTY	QUANTITY	V	VERTICAL
CONST	CONTRACT (ION)	FLR	FLOOR	LVL	LAMINATED VENEER LUMBER	RD	ROOF DRAIN	VERT	VERTICAL
CONT	CONTINUOUS (ATION)	FND	FOUNDATION	LW	LONG WAY	REF	ROOF FINISH	W	WEST
CONTR	CONTRACTOR	FOH	FACE OF MASONRY	MAS	MASONRY	REF	REFERENCE	W/	WITH
CTR	CENTER	FOS	FACE OF SHEATHING	MATL	MATERIAL	REQ	REQUIRED	W/C	WATER/CHEMIST RATIO
CW	CURTAIN WALL	FOV	FACE OF VENEER	MAX	MAXIMUM	REQD	REQUIRED	W/O	WITHOUT
CY	CUBIC YARDS	FS	FACE OF WALL	MBR	MEMBER	REV	REVISION (S), (ED)	WD	WOOD
		FT	FEET, FOOT	MECH	MECHANICAL	RF	ROOF	WL	WINDLOAD
		FTG	FOOTING	MEZZ	MEZZANINE	RM	ROOM	WP	WORK (ING) POINT
				MFR	MANUFACTURE (R)	RTU	ROOF TOP UNIT	WT	WEIGHT
				MNL	MANUAL			WWR	WELDED WIRE REINFORCING
				MISC	MISCELLANEOUS			XX	EXTRA STRONG
				MO	MASONRY OPENING			XXS	DOUBLE EXTRA STRONG
				MPH	MILES PER HOUR				
				MTL	METAL				



CML BARNETT BRANCH

Revision Schedule		
#	Description	Date

NOT FOR CONSTRUCTION

05400 - COLD-FORMED METAL FRAMING (LOAD BEARING)

1. SPECIFICATIONS AND STANDARDS:
A. STRUCTURAL PROPERTIES OF COLD-FORMED METAL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI S100.
B. MEMBER SIZES FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
C. WELDING SHALL BE PERFORMED ONLY BY QUALIFIED OPERATORS USING PROPER EQUIPMENT FOR THE PARTICULAR TYPE OF WORK REQUIRED.
D. AISI S100 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
E. ALL STUDIOS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8" AND BE A MINIMUM OF 20 GAUGE (33 MIL).
F. MEMBERS 5# MILS AND HEAVIER: ASTM A1003, GRADE 50, TYPE H.
G. MEMBERS 4# MILS AND LIGHTER: ASTM A1003, GRADE 33, TYPE H.
D. TRACK AND BRIDGING MATERIALS: ASTM A1003, GRADE 33, TYPE H.
E. FRAMING SHALL BE GALVANIZED PER ASTM A653, G60.
F. WELDING ELECTRODES: AWS AS. 1, AS. 5 OR AS. 18 SERIES 60.
G. CONNECTIONS:
A. CUT FRAMING COMPONENTS TO FIT SQUARELY AGAINST ABUTTING MEMBERS AND HOLD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
B. MEMBERS SHALL BE SQUARE AND BRACED AGAINST RACKING.
C. WIRE TYPING OF STRUCTURAL FRAMING COMPONENTS IS NOT PERMITTED.
D. COMPONENTS SHALL BE FASTENED TOGETHER WITH A MINIMUM OF 2 (#8) SCREWS OR AS SHOWN ON THE DRAWINGS.
E. ATTACH TRACK TO THE FLOOR AND OVERHEAD STRUCTURE AS NOTED.
F. SEAT STUDS SQUARELY TO THE FLOOR AND OVERHEAD TRACK AND CONNECT AS NOTED.
G. SIZES IN MEMBERS ARE NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
D. DO NOT ALLOW AXIAL LOADS TO STUDS UNTIL ALL BRIDGING, CONNECTIONS, AND ATTACHMENT OF COLLATERAL MATERIALS ARE COMPLETE.
E. INSTALL BRIDGING IN WALL SPACE BRIDGING AT 4'-0" c/c MAX OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
F. ATTACH V-BAR BRIDGING TO BOTH FLANGES OF JOISTS. ATTACH SOLID BRIDGING BETWEEN JOISTS AFTER EVERY 10'-0" LENGTH OF V-BAR BRIDGING. SPACE BRIDGING IN ACCORDANCE WITH THE FOLLOWING PROVISIONS:
A. SPAN BRIDGING: NONE
7'-0" TO LESS: NONE
7'-1" TO 14'-0" (1) ROW @ MID-SPAN
14'-1" TO 20'-0" (2) ROWS @ 1/3 POINTS
20'-1" TO 26'-0" (3) ROWS @ 1/4 POINTS
G. SOLID BLOCKING OR BRACING IS REQUIRED AT JOIST ENDINGS.
H. MAXIMUM SPACING SHALL BE 10' c/c UNLESS NOTED OTHERWISE.
I. DESIGN OF ALL COLD-FORMED METAL FRAMING COVERED IN THIS SECTION SHALL BE PERFORMED BY A DELEGATED DESIGNER PROVIDED AS A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT. SUBMIT EITHER SHOWN DRAWINGS OR SHOP DRAWINGS WITH THE MANUFACTURER'S CATALOG.
J. MECHANICAL FASTENERS SHALL BE DESIGNED AND SUPPLY ALL HANGERS AND CONNECTIONS FOR INTERSECTING TRUSSES.
K. TRUSS MANUFACTURER SHALL DESIGN AND SUPPLY ALL HANGERS AND CONNECTIONS FOR INTERSECTING TRUSSES.

05100 - STEEL JOIST FRAMING

1. DESIGN, MANUFACTURING, AND ERECTION: ACCORDING TO THE STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS & JOIST GIRDERS ADAPTED BY THE STEEL JOIST INSTITUTE.
2. STEEL JOISTS OF THE SAME DEPTH AND CHORD DESIGNATION SHALL HAVE MEMBER SIZES OF UNIFORM CONSISTENCY.
3. PAINT ALL JOISTS WITH MANUFACTURER STANDARD SHOP PRIMER UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
4. PROVIDE ADDITIONAL WEB MEMBERS AS REQUIRED AT CONCENTRATED LOADS THAT DO NOT OCCUR AT PANEL POINTS. SEE TYPICAL DETAIL.
5. BRIDGING:
A. BRIDGING QUANTITY AND SPACING AS REQUIRED BY SJ SPECIFICATION AND PER ECTION DRAWINGS OF JOIST SUPPLIER.
B. ANCHOR ALL BRIDGING TO INTERSECTING WALLS AND BEAMS UNLESS OTHERWISE SHOWN.
C. HORIZONTAL TOP AND BOTTOM BRIDGING MAY BE USED INSTEAD OF DIAGONAL BRIDGING ON LH, DLH AND SH JOISTS WHERE REQUIRED FOR PASSAGE OF MECHANICAL DUCTS. NO MORE THAN TWO ADJACENT SPACES MAY HAVE HORIZONTAL BRIDGING.
6. CONNECTIONS TO SUPPORTING STEEL:
A. WELDING:
• 2 1/2" OF 1/8" FILLET EACH SIDE FOR K AND KC JOISTS.
• 2 1/2" OF 3/16" FILLET EACH SIDE FOR LH20-06 JOISTS.
• 2 1/2" OF 1/4" FILLET WELD EACH SIDE FOR LH17-17, DLH10-17, JOIST GIRDER < 50 PLF
• 4" OF 1/4" FILLET WELD EACH SIDE FOR DLH15-25 AND JOIST GIRDER < 50 PLF.
B. BOLTING:
• (1) 3/4" DIAMETER A307 FOR K AND KC AND LH20-06 JOISTS.
• (2) 3/4" DIAMETER A307 FOR LH17-17, DLH10-17 AND JOIST GIRDER < 50 PLF.
• (3) 3/4" DIAMETER A325 FOR DLH15 AND JOIST GIRDER < 50 PLF.
C. JOIST JOISTS AT OR NEAREST TO COLUMNS, PER SJ SPECIFICATIONS.
D. EXTEND BOTTOM CHORD OF JOISTS IN LINE WITH COLUMNS TO STABILIZER PLATES ON COLUMNS OR BEAMS.
E. JOIST GIRDERS AT OR NEAREST TO COLUMNS, PER SJ SPECIFICATIONS.
F. ALL SERIES: 2 1/2" ON STRUCTURAL STEEL, 4" ON CONCRETE OR MASONRY.
G. JOIST GIRDERS: 4" ON STRUCTURAL STEEL, 6" ON CONCRETE OR MASONRY, 4" FOR LH17-17 ON STRUCTURAL STEEL, 6" ON CONCRETE OR MASONRY.
H. SERIES: 2 1/2" FOR LH20-06 ON STRUCTURAL STEEL, 4" ON CONCRETE OR MASONRY, 4" FOR LH17-17 ON STRUCTURAL STEEL, 6" ON CONCRETE OR MASONRY.
I. PROVIDE MATCHING HONEYCOMB JOISTS THAT HAVE COMMON BEARING. SHOE HEIGHTS TO MATCH SJ STANDARDS UNLESS NOTED OTHERWISE.
J. LAP WELDED WIRE REINFORCING: SPACE 2" AT ALL EDGES AND ENDS OF SHEETS.
K. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUCTS.
L. JOIST SUPPLIER SHALL VERIFY THAT JOISTS AND BRIDGING ARE CAPABLE TO RESIST THE NET UPLIFT LOADS SPECIFIED.
M. JOIST SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
N. DEFLECTION CRITERIA FOR JOIST: JOIST GIRDER DESIGN (UNLESS NOTED OTHERWISE):
• ROOF TOTAL LOAD: L/180 FLOOR TOTAL LOAD: L/240
• ROOF LIVE LOAD: L/240 FLOOR LIVE LOAD: L/360
O. JOIST SUPPORTS AT ROOF DIAPHRAGMS SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR (ROLL-OVER) TO THE SUPPORTING STRUCTURE. SEE ROOF PLAN FOR LOCATION.

LAP SPICE SCHEDULE:

BAR SIZE	TOP BAR (fc=4000 PSI)	TOP BAR (fc=4000 PSI)	OTHER BAR (fc=4000 PSI)	OTHER BAR (fc=4000 PSI)
#3	22"	19"	17"	15"
#4	22"	19"	22"	19"
#5	22"	19"	22"	19"
#6	22"	19"	22"	19"
#7	22"	19"	22"	19"
#8	22"	19"	22"	19"
#9	22"	19"	22"	19"
#10	22"	19"	22"	19"
#11	22"	19"	22"	19"
#12	22"	19"	22"	19"

05200 - STEEL DECKING

1. SPECIFICATIONS AND STANDARDS:
A. DESIGN FABRICATION AND ERECTION OF STEEL DECK SHALL BE GOVERNED BY THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
B. DETAILS OF THE STEEL DECK SHALL BE COMPLETED IN ACCORDANCE WITH THE REFERENCE STANDARD. THE PROPERTIES SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
C. AISI STANDARD WELDING SYMBOLS.
D. AISI S100 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES.
E. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
F. WELDING ELECTRODES: AWS AS. 1, AS. 5 OR AS. 18 SERIES 60.
G. WELDED WADERS SHALL BE USED ON ALL DECK JOINTS THINNER THAN 24 GAUGE.
4. ERECTION AND FABRICATION:
A. MINIMUM BEARING: 2 INCHES UNLESS OTHERWISE NOTED.
B. ROOF DECK MINIMUM PLATE LENGTH: 4 INCHES UNLESS NOTED OTHERWISE.
C. COMPOSITE FLOOR DECK SHALL HAVE BUTTED ENDS OVER SUPPORTS.
D. NON-COMPOSITE FLOOR DECK SHALL BE EITHER LAPPED OR BUTTED OVER SUPPORTS.
E. FABRICATE DECK LIMITS IN LENGTH TO SPAN THREE OR MORE SUPPORT SPACINGS.
F. CONNECTION TO BE UNSHORED. DECK SUPPLIER SHALL PROVIDE DECK WITH SPECIFIED DEPTH THAT MEETS THIS REQUIREMENT (SEE SPANS BELOW). NOTIFY ENGINEER IF GAUGE IS REQUIRED TO BE INCREASED FROM GAUGE SHOWN ON DRAWINGS.
• MINIMUM UNSHORED SPANS (SINGLE SPAN / DOUBLE SPAN / TRIPLE SPAN):
a. COMPOSITE DECK: 6'-11 7/8" / 7'-7 1/2" / 7'-3" FOR 1 1/2 X 20 GA, 4 1/2" X 16 NW SLAB OR 7'-6 1/8" / 5'-8 1/8" / 5'-8 1/8" FOR 2 X 20 GA, 5 1/2" NW SLAB.
b. FORM DECK: 3'-5 7/8" / 0'-4" / 0" FOR 9 1/8" X 24 GA, 3" NW SLAB OR 5'-5 7/8" / 10'-6 1/8" / 8" FOR 1" X 22 GA, 4 1/2" NW SLAB OR 4'-5 7/8" / 5'-7 1/2" / 7" FOR 1 1/2 X 20 GA, 4" NW SLAB.
G. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CELINGS, PIPES, DUCTS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
H. DECK SUPPLIER TO PROVIDE DECK LENGTH WHERE REQUIRED FOR CONNECTION PLACEMENT.
5. OPENINGS IN STEEL DECK:
A. OPENINGS CUT IN THE STEEL DECK SHALL BE REINFORCED OR SHALL BE SUPPORTED ON STEEL ANGLE FRAMES. COORDINATE SIZES AND LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
B. TESTING:
• OPENINGS IN STEEL DECK EQUAL TO OR LESS THAN 12" X 12" SHALL BE REINFORCED WITH A 24" X 24" 16-GAUGE PLATE SCREWED OR WELDED TO THE DECK RIBS ON ALL SIDES OF THE OPENING.
C. OPENINGS IN ROOF DECK GREATER THAN 12" X 12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES.
D. OPENINGS IN FLOOR DECK GREATER THAN 12" X 12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES UNLESS ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:
• OPENING SIZE IS LESS THAN OR EQUAL TO 24" X 24".
• THE DECK IS CUT AFTER THE CONCRETE HAS CURED.
• THE CONCRETE SLAB IS REINFORCED WITH #4 @ 6" ON EACH SIDE OF THE OPENING.

03000 - CAST-IN-PLACE CONCRETE - CONT

11. SPLICES:
A. NO SPLICES IN BEAM, JOIST, OR SLAB STEEL UNLESS SPECIFICALLY SHOWN OTHERWISE.
B. COMPRESSION SPLICES: LAP 30X BAR DIAMETER OR MORE UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
C. TENSION SPLICES, WHEN PERMITTED: LAP IN ACCORDANCE WITH THE ACI CODE AND THE TABLE SHOWN BELOW.

LAP SPICE SCHEDULE:

BAR SIZE	TOP BAR (fc=4000 PSI)	TOP BAR (fc=4000 PSI)	OTHER BAR (fc=4000 PSI)	OTHER BAR (fc=4000 PSI)
#3	22"	19"	17"	15"
#4	22"	19"	22"	19"
#5	22"	19"	22"	19"
#6	22"	19"	22"	19"
#7	22"	19"	22"	19"
#8	22"	19"	22"	19"
#9	22"	19"	22"	19"
#10	22"	19"	22"	19"
#11	22"	19"	22"	19"
#12	22"	19"	22"	19"

NOTES:
a. TOP BARS ARE DEFINED AS INSTALLED BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THEM.
b. ALL LAP SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.
c. WALLS ARE NORMAL WEIGHT CONCRETE NON-SPOK COATED BARS.
D. LAP WELDED WIRE REINFORCING: SPACE 2" AT ALL EDGES AND ENDS OF SHEETS.
12. OPENINGS:
a. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK.
b. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED, APPROVAL MUST BE SECURED FROM THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
13. COVER:
a. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
• UNFORMED SURFACES IN CONTACT WITH GROUND: 3"
• FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR #5 OR SMALLER, 2" FOR #6 OR LARGER.
• FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: SLABS: 3/4", BEAMS & COLUMNS: 10 TIES OR STRIPS: 1 1/2"
14. MISCELLANEOUS:
a. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH ADJACENT FLOORS ARE IN PLACE. WHERE FILL IS ON BOTH SIDES OF A FOUNDATION WALLS, PLACE THE FILL EVENLY ON BOTH SIDES OF THE WALL.
b. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
c. ANCHOR BOLTS SHALL BE INSTALLED AT 45 DEGREE ANGLES TO THE WALLS UNLESS OTHERWISE SPECIFIED.
D. PROVIDE 1/4" DIA. DIAGONAL REINFORCING BAR AT MID DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS OF SLABS ON GRADE AND SLABS ON METAL DECK.
E. PROVIDE EQUIPMENT PADS, NERTIA BASES AND CURBS AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. UNLESS NOTED, CONTRACTOR SHALL PROVIDE HOOKED END PROTECTIVE 1" FROM CONCRETE BELOW AT 18" c/c EACH WAY. REINFORCE PADS WITH #4 @ 18" c/c EACH WAY AT MID-DEPTH (FOR PADS < 8" THICK UNLESS OTHERWISE SPECIFIED) EQUIPMENT SUPPLIER.
F. SUBMIT TIE REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT PRIOR TO FABRICATION.
15. SHORING/RESHORING:
a. THE SHORING AND/OR RESHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
b. THE SHORING/RESHORING SYSTEM SHALL CONSIST OF A MINIMUM OF ONE LEVEL OF SHORES AND TWO LEVELS OF RESHORES.
c. SHORING SYSTEM SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE OF OHIO AND SHALL COMPLY WITH THE CURRENT EDITIONS OF ACI 307 AND ACI 308.
D. SHORING/RESHORING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. THE SHOP DRAWINGS SHALL ADDRESS ALL ASPECTS OF THE SHORING/RESHORING SYSTEM AND SHALL BEAR THE SEAL OF THE ENGINEER.
E. SHORING FOR A LEVEL SHALL NOT BE REMOVED UNTIL THE CONCRETE AT THAT LEVEL HAS REACHED 75% OF THE SPECIFIED COMPRESSIVE STRENGTH (F'c). ALL SLABS SHALL BE SHORED/RESHORED UNTIL THEY REACH THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH. RESHORING SHALL BE INSTALLED THE SAME DAY SHORING IS REMOVED.
F. REMOVAL OF SHORING/RESHORING SHALL NOT BE PERMITTED UNTIL THE STRESSING OF ALL STRUCTURAL ELEMENTS. THIS VERIFICATION SHALL BE INCLUDED IN THE SHORING ENGINEER'S SUBMITTAL.
16. CONDUITS MAY BE EMBEDDED IN THE SLAB WITH THE APPROVAL OF THE ENGINEER. THE FOLLOWING MINIMUM CRITERIA SHALL APPLY:
a. THE OUTSIDE DIAMETER OF THE CONDUIT DOES NOT EXCEED 1/4 OF THE SLAB THICKNESS OR 1", WHICHEVER IS LESS.
b. CONDUITS WITH OUTSIDE DIAMETER GREATER OR EQUAL TO 1 IN. ARE LOCATED WITHIN THE MIDDLE OF THE THIRD OF THE SLAB.
c. CONDUITS WITH OUTSIDE DIAMETER SMALLER THAN 1 IN. MAY BE LOCATED ANYWHERE WITHIN THE SLAB AS LONG AS THE MINIMUM COVER REQUIREMENTS ARE OBSERVED.
D. CENTER-TO-CENTER SPACING OF THE CONDUITS IS NOT LESS THAN THREE TIMES THE DIAMETER OF THE LARGEST CONDUIT OR 6", WHICHEVER IS GREATER, WITH NO MORE THAN THREE CONDUITS PER SIX FOOT WIDTH OF SLAB.
E. CONDUITS DO NOT CONTACT INTERLAP OR SURFACE. THE POST-TENSIONING TENDONS OR HALO REINFORCING.
F. NO CONDUIT MAY BE PLACED WITHIN A DISTANCE EQUAL TO THE LARGEST COLUMN DIAMETER FROM THE FACE OF THE COLUMN, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
G. NO CONDUITS MAY BE PLACED WITHIN A DISTANCE EQUAL TO THE DEPTH OF SLAB FROM EDGE OF A SLAB BOTTOM DROP, UNLESS APPROVED BY THE ENGINEER OF RECORD.
H. CONDUIT SHALL BE SUPPORTED ON CHAIRS.
I. SUBMIT CONDUIT SHOP DRAWINGS WITH PROPOSED LAYOUT FOR REVIEW. NO CONDUIT SHALL BE PLACED IN THE SLAB UNLESS INCLUDED IN THE SHOP DRAWINGS SUBMITTAL.
J. IT IS UNDESIRABLE TO HAVE A LARGE NUMBER OF CONDUITS ENTERING THE SLAB AT ONE LOCATION. IF THIS OCCURS, THE CONDUITS MUST BE FANMED OUT IMMEDIATELY, UNTIL THEM (D) ABOVE AS MET. THIS INFORMATION SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTAL.
K. CONDUIT SHALL NOT BE UNCOATED ALUMINUM. COORDINATE MATERIAL WITH ELECTRICAL REQUIREMENTS.

05100 - STRUCTURAL STEEL FRAMING

1. SPECIFICATIONS AND STANDARDS:
A. DESIGN FABRICATION AND ERECTION SHALL BE GOVERNED BY THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
B. DETAILS OF THE STEEL DECK SHALL BE COMPLETED IN ACCORDANCE WITH THE REFERENCE STANDARD. THE PROPERTIES SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
C. AISI STANDARD WELDING SYMBOLS.
D. AISI S100 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES.
E. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
F. WELDING ELECTRODES: AWS AS. 1, AS. 5 OR AS. 18 SERIES 60.
G. WELDED WADERS SHALL BE USED ON ALL DECK JOINTS THINNER THAN 24 GAUGE.
4. ERECTION AND FABRICATION:
A. MINIMUM BEARING: 2 INCHES UNLESS OTHERWISE NOTED.
B. ROOF DECK MINIMUM PLATE LENGTH: 4 INCHES UNLESS NOTED OTHERWISE.
C. COMPOSITE FLOOR DECK SHALL HAVE BUTTED ENDS OVER SUPPORTS.
D. NON-COMPOSITE FLOOR DECK SHALL BE EITHER LAPPED OR BUTTED OVER SUPPORTS.
E. FABRICATE DECK LIMITS IN LENGTH TO SPAN THREE OR MORE SUPPORT SPACINGS.
F. CONNECTION TO BE UNSHORED. DECK SUPPLIER SHALL PROVIDE DECK WITH SPECIFIED DEPTH THAT MEETS THIS REQUIREMENT (SEE SPANS BELOW). NOTIFY ENGINEER IF GAUGE IS REQUIRED TO BE INCREASED FROM GAUGE SHOWN ON DRAWINGS.
• MINIMUM UNSHORED SPANS (SINGLE SPAN / DOUBLE SPAN / TRIPLE SPAN):
a. COMPOSITE DECK: 6'-11 7/8" / 7'-7 1/2" / 7'-3" FOR 1 1/2 X 20 GA, 4 1/2" X 16 NW SLAB OR 7'-6 1/8" / 5'-8 1/8" / 5'-8 1/8" FOR 2 X 20 GA, 5 1/2" NW SLAB.
b. FORM DECK: 3'-5 7/8" / 0'-4" / 0" FOR 9 1/8" X 24 GA, 3" NW SLAB OR 5'-5 7/8" / 10'-6 1/8" / 8" FOR 1" X 22 GA, 4 1/2" NW SLAB OR 4'-5 7/8" / 5'-7 1/2" / 7" FOR 1 1/2 X 20 GA, 4" NW SLAB.
G. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CELINGS, PIPES, DUCTS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
H. DECK SUPPLIER TO PROVIDE DECK LENGTH WHERE REQUIRED FOR CONNECTION PLACEMENT.
5. OPENINGS IN STEEL DECK:
A. OPENINGS CUT IN THE STEEL DECK SHALL BE REINFORCED OR SHALL BE SUPPORTED ON STEEL ANGLE FRAMES. COORDINATE SIZES AND LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
B. TESTING:
• OPENINGS IN STEEL DECK EQUAL TO OR LESS THAN 12" X 12" SHALL BE REINFORCED WITH A 24" X 24" 16-GAUGE PLATE SCREWED OR WELDED TO THE DECK RIBS ON ALL SIDES OF THE OPENING.
C. OPENINGS IN ROOF DECK GREATER THAN 12" X 12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES.
D. OPENINGS IN FLOOR DECK GREATER THAN 12" X 12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES UNLESS ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:
• OPENING SIZE IS LESS THAN OR EQUAL TO 24" X 24".
• THE DECK IS CUT AFTER THE CONCRETE HAS CURED.
• THE CONCRETE SLAB IS REINFORCED WITH #4 @ 6" ON EACH SIDE OF THE OPENING.

01000 - GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. GOVERNING CODE: 2017 EDITION OHIO BUILDING CODE - 2017 EDITION
3. SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE, IF APPLICABLE.

ROOF LOADS	FLOOR LOADS
ROOFING: 1.5 PSF	SLAB & DECK: ___ PSF
INSULATION: 1.0 PSF	ADD'L PONDING CONCRETE: 5.0 PSF
METAL DECK: 2.5 PSF	CEILING LIGHTS: 0.5 PSF
JOIST FRAMING: 2.5 PSF	CELING LIGHTS: 3.0 PSF
M.L.P.: 2.0 PSF	M.L.P.: 3.0 PSF
SPRINKLER: 2.5 PSF	SPRINKLER: 2.5 PSF
COLLATERAL: 2.0 PSF	COLLATERAL: 2.0 PSF
EQUIP. COLLATERAL: 0.5 PSF	JOIST FRAMING: ___ PSF

4. ROOF SHOW LOAD:
GROUND SHOW LOAD (PG) 20 PSF
SNOW EXPOSURE FACTOR (Ce) 1.0
IMPORTANCE FACTOR (I) 1.0
THERMAL FACTOR (Ct) 1.0
FLAT ROOF SHOW LOAD (PG) 20 PSF
UNIFORM ROOF DESIGN LIVE LOAD 20 PSF
SEE PLANS OR JOIST DIAGRAMS FOR SNOW DRIFT INFORMATION

5. WIND LOAD:
ULTIMATE DESIGN WIND SPEED (Vult) 115 MPH
NOMINAL WIND SPEED (Vass) 89 MPH
RISK CATEGORY II
EXPOSURE CATEGORY EXPOSURE B
INTERNAL PRESSURE COEFFICIENT (GC) +0.18
CORNER/END AND CLADDING - USE TABLE BELOW
6. SEISMIC LOAD:
RISK CATEGORY II
IMPORTANCE FACTOR (I) 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa) 0.116
MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1) 0.099
SITE CLASS 0.099
SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SD) 0.124
SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1) 0.095
SEISMIC DESIGN CATEGORY 1
DESIGN BASE SHEAR 0.8
SEISMIC RESPONSE COEFFICIENT (C) 0.041
BASIC SEISMIC FORCE RESISTING SYSTEM:
H. STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS (R-3, D-3, C4-3)

7. DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE
8. MECHANICAL FRAMING (LIFTS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COLD RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.
9. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE DESIGN PROCEDURES, ERECTION PROCEDURES AND SEQUENCES AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYES, OR DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
10. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC., WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND DRAWINGS OF ANY OTHER DISCIPLINE.
13. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS ON THESE DRAWINGS ARE DESIGNED FOR MOVEMENT OF A COMPLETED STRUCTURE.
14. IF EQUIPMENT SHIPPING OR OPERATING WEIGHT EXCEEDS VALUE SHOWN ON THESE DRAWINGS, DO NOT PLACE EQUIPMENT. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT.
15. DO NOT MODIFY, ALTER OR REBAR ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
16. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER.
17. DEFERRED SUBMITTALS: THE FOLLOWING COMPONENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR, LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA.
A. STEEL CONNECTIONS NOT SPECIFICALLY AND FULLY DETAILED ON THE STRUCTURAL DRAWINGS.
B. STEEL STAIRS AND HAND RAILINGS.
C. COLORBOND METAL FRAMING - NON-LOAD BEARING CURTAINWALL.
D. STEEL JOIST AND GIRDERS OR APPROPRIATE REFERENCES TO SJ STANDARDS.
18. SEE SHEET ___ FOR SPECIAL INSPECTIONS.

03000 - CAST-IN-PLACE CONCRETE

1. SPECIFICATIONS AND STANDARDS:
CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:
A. ACI 301, ACI 313, AND ACI 318.
B. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
C. ACI 308 AND ACI 309 FOR COLD AND HOT WEATHER CONCRETE, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.
2. CONTINGENCIES:
A. (****) TONS OF REINFORCING BARS TO BE USED AS DIRECTED BY THE ARCHITECT.
B. LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS.
3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:
CLASS LOCATION F'c MAX W/C RATIO SPECIAL REQUIREMENTS
1 FOOTINGS 3000 PSI 0.55
2 PIERS, WALLS, EQUIPMENT PADS 3000 PSI 0.55 65 +/- 1.5% AIR CONTENT
3 EXTERIOR CONCRETE 4000 PSI 0.45 33% MAX AIR CONTENT
4 INTERIOR SLAB ON GRADE, INTERIOR SLAB ON METAL DECK 3500 PSI 0.50 11% PFC +/- 3 PFC UNIT WEIGHT
5 LW SLABS ON METAL DECK 3500 PSI 0.50
6 SLABS, BEAMS, COLUMNS 4000 PSI 0.50
7 CONCRETE OVER PRECAST, STAR PAN FILL 3000 PSI 0.50 3/8" MAX AGGREGATE
8 EXTERIOR PT SLABS, BEAMS 5000 PSI 0.40 65 +/- 1.5% AIR CONTENT
9 TILT-UP WALLS 4000 PSI 0.45
10 LEAN CONCRETE 1500 PSI
11 FLOWABLE FILL 89 PSI
12 TILT-UP PANEL GROUP 5000 PSI NON-SHRINK, NON-METALLIC, CONFORMS TO ASTM C1107

SUBMIT CONDUIT MESH FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. ALL MESH SHALL INCLUDE EITHER ASTM C150 PORTLAND CEMENT OR ASTM C595 PORTLAND LESTONITE CEMENT AND ALL AGGREGATE SHALL CONFORM TO ASTM C33. (CONCRETE TESTING PER ACI 318 SECTION 26.12)

4. REINFORCING REQUIREMENTS:
A. BARS: ASTM A615, GRADE 60.
B. WELDED WIRE REINFORCING: ASTM A1064.
C. STEEL FIBER: ASTM A820, TYPE 1.
D. SMOOTH BARS: ASTM A36.
E. SEVEN WIRE STRAND (GRADE 270): ASTM A416.
F. BARS REQUIRING WELDING: ASTM A709, GRADE 60.
5. POST INSTALLED WEDGE ANCHORS:
A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL (INTERIOR) OR STAINLESS STEEL (GALVANIZED EXTERIOR).
B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 308.4, EVALUATED FOR USE IN CRACKED CONCRETE.
C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. BASIS OF DESIGN: HILTI KWIK-BOLT T22.
6. POST INSTALLED SCREW ANCHORS:
A. THE ANCHOR SHALL COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SHALL BE SUITABLE FOR CRACKED CONCRETE.
B. INTERIOR USE ONLY. THE ENTIRE ANCHOR SHALL BE CARBON STEEL WITH ZINC PLATING EQUIVALENT TO D1N EN 4042 (8µm MIN).
C. PRE-DRILL HOLES WITH STANDARD AISI DRILL BIT PER THE MANUFACTURER'S INSTALLATION GUIDELINES. INSTALL THE ANCHOR WITH AN IMPACT WRENCH.
D. PROVIDE ANCHORS WITH A DIAMETER AND LENGTH MARKING ON THE HEAD AS INDICATED ON THE DRAWINGS.
7. POST INSTALLED ADHESIVE ANCHORS AND DOWELS:
A. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 308.4, EVALUATED FOR USE IN CRACKED CONCRETE.
B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. BASIS OF DESIGN: HIT HY 200 VS WITH ASTM F1554 GR. [36], [55], [105]; ASTM A307, ASTM A193 B7, ASTM A193 S5. ANCHORS SHALL NOT BE DR GALVANIZED OR STAINLESS STEEL IF EXPOSED TO EXTERIOR CONDITIONS. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
C. THE FOLLOWING PARAMETERS HAVE BEEN USED IN THE DESIGN:
• MINIMUM AGE OF CONCRETE: 21 DAYS
• CONCRETE TEMPERATURE RANGE: VERIFY ALLOWABLE BASE TEMPERATURE WITH MANUFACTURER.
• MOISTURE CONDITION AT THE TIME OF INSTALLATION: DRY OR WATER SATURATED. PRODUCT DATA SHALL BE PROVIDED THAT INDICATES ANCHOR DOES NOT HAVE REDUCED CAPACITY COMPARED TO DRY HOLES.
• TYPE OF LIGHTWEIGHT CONCRETE (IF APPLICABLE): LIGHTWEIGHT AGGREGATE OR SAND.
• HOLE DRILLING AND PREP: ROTARY HAMMER DRILL WITH HOLE CLEANING PER MANUFACTURER'S INSTRUCTIONS.
D. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLUDED SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH ICC-ES ADHESIVE ANCHOR INSTALLATION CERTIFICATION PROGRAM, OR EQUIVALENT.
8. FOOTINGS:
A. DOWELS IN FOOTINGS TO

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PART 1: SCHEDULE OF SPECIAL INSPECTIONS	
STATEMENT OF SPECIAL INSPECTIONS	
1. SPECIAL INSPECTION FREQUENCY DEFINITIONS:	
A. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.	
B. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.	

PART 1: SCHEDULE OF SPECIAL INSPECTIONS				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
IBC 1705.2 STEEL CONSTRUCTION				
FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN ASC 360, CHAPTER N, PARAGRAPHS 1.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	EACH SUBMITTAL	ASC 360	1705.2	
MATERIAL VERIFICATION OF STRUCTURAL STEEL	X	ASC 360	1705.2	
EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT, SEE 1703.3 FOR ANCHORS)	X	ASC 360	1705.2	
VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION CORNER WITH CONSTRUCTION DOCUMENTS	X	ASC 360	1705.2	

TABLE NS-4.1 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS PRIOR TO WELDING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	-		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	-		
MATERIAL IDENTIFICATION (TYPE/GRADE)	-	X		
WELDER IDENTIFICATION SYSTEM	-	X		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):				
- JOINT PREPARATION				
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				
- CLEANLINESS (CONDITION OF STEEL SURFACES)		X	ASC 360	1705.2.1
- TACKING (TACK WELD QUALITY AND LOCATION)				
- BACKING TYPE AND FIT				
CONFIGURATION AND FINISH OF ACCESS HOLES	-	X		
FIT-UP OF FILLET WELDS:				
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				
- CLEANLINESS (CONDITION OF STEEL SURFACES)		X		
- TACKING (TACK WELD QUALITY AND LOCATION)				

TABLE NS-4.2 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS DURING WELDING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
USE OF QUALIFIED WELDERS	-	X		
CONTROL AND HANDLING OF WELDING CONSUMABLES:				
- PACKAGING	-	X		
- EXPOSURE CONTROL	-	X		
NO WELDING OVER CRACKED TACK WELDS	-	X		
ENVIRONMENTAL CONDITIONS:				
- WIND SPEED WITHIN LIMITS	-	X		
- PRECIPITATION AND TEMPERATURE				
WPS FOLLOWED:				
- SETTINGS ON WELDING EQUIPMENT			ASC 360	1705.2.1
- TRAVEL SPEED				
- SELECTED WELDING MATERIALS	-	X		
- SHIELDING GAS TYPE/FLOW RATE	-	X		
- PRE-HEAT APPLIED				
INTERPASS TEMPERATURE MAINTAINED:				
- PROPER POSITION (F, V, H, OH)				
WELDING TECHNIQUES:				
- INTERPASS AND FINAL CLEANING	-	X		
- EACH PASS WITHIN PROFILE LIMITATIONS	-	X		
- EACH PASS MEETS QUALITY REQUIREMENTS	-	X		

TABLE NS-4.3 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS AFTER WELDING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
WELDS CLEANED	-	X		
SIZE, LENGTH, AND LOCATION OF WELDS	X	-		
WELDS MEET VISUAL ACCEPTANCE CRITERIA:				
- CRACK PROHIBITION				
- WELD/BASE-METAL FUSION				
- CRATER CROSS SECTION	X	-		
- WELD PROFILES			ASC 360	1705.2.1
- WELD SIZE				
- UNDERCUT				
- POROSITY				
ARC STRIKES	X	-		
K-AREA	X	-		
BACKING REMOVED AND WELD TABS REMOVED	X	-		
REPAIR ACTIVITIES	X	-		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	-		
C.P. GROOVE WELD NDT:				
- UT TESTING ON ALL BUTT, T- & CORNER JOINTS IN MATERIALS 5/16" THICK OR GREATER (RISK CATEGORY III OR IV ONLY)			ASC 360 NS.5B	1705.2.1
- UT TESTING ON 10% OF BUTT, T- & CORNER JOINTS IN MATERIALS 5/16" THICK OR GREATER (RISK CATEGORY I ONLY)	AS NOTED			
ACCESS HOLES NDT:				
- AT OR PT TESTING OF ALL THERMALLY CUT SURFACES OF ACCESS HOLES (WHEN PLATE THICKNESS > 2" OF ROLLED SHAPES OR WEB THICKNESS > 2" FOR BUILT-UP SHAPES)	AS NOTED		ASC 360 NS.5C	1705.2.1
OTHER NDT:				
- WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY ASC 360, APPX. 3, TABLE 3.1	AS NOTED		ASC 360	1705.2.1
FABRICATORS NOT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS		ASC 360	1705.2.1

CONTINUED				
TABLE NS-6.1 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS PRIOR TO BOLTING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
MANUFACTURER CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	-		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	-	X		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	-	X		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	-	X		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FINISH SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	-	X	ASC 360	1705.2.1
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	-	X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	-	X		

TABLE NS-6.2 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS DURING BOLTING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	-	X		
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	-	X		
FASTENER COMPONENT NOT TURNED BY THE WRECH PREVENTED FROM ROTATING	-	X	ASC 360	1705.2.1
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE PROSE SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	-	X		

TABLE NS-6.3 (ASC 360, PER 1705.2.1)				
INSPECTION TASKS AFTER BOLTING OF STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	-	ASC 360	1705.2.1

TABLE NS-6.1 (ASC 360, PER 1705.2.1)				
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
PLACEMENT AND INSTALLATION OF STEEL DECK	X	-		
PLACEMENT AND INSTALLATION OF STEEL-HEADED STUD ANCHORS	X	-	ASC 360	1705.2.1
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X	-		
1705.2.2 COLD-FORMED STEEL DECK				
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK, INCLUDING IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS AND MANUFACTURERS CERTIFIED TEST REPORTS	-	X		
CONNECTION OF COLD-FORMED STEEL DECK TO SUPPORTING STRUCTURE:				
- WELDING	-	X		
- OTHER FASTENERS: VERIFY FASTENERS ARE IN CONFORMANCE WITH APPROVED SUBMITTAL AND VERIFY INSTALLATION IS IN CONFORMANCE WITH APPROVED SUBMITTAL AND MANUFACTURERS RECOMMENDATIONS	-	X		

TABLE 1705.2.3				
OPEN-WEB STEEL JOISTS AND JOIST GRIDDERS				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GRIDDERS				
A. END CONNECTIONS	-	X		
B. BRIDGING - HORIZONTAL AND DIAGONAL	-	X	S18.2207.1	1705.2.3
1. STANDARD BRIDGING	-	X		
2. BRIDGING THAT DIFFERS FROM S18 SPECIFICATIONS	-	X		
1705.2.4 COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER				
COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER: VERIFY TEMPORARY AND PERMANENT RESTRAINT/BRACING MEMBERS ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL.	-	X		1705.2.4

PART 1: SCHEDULE OF SPECIAL INSPECTIONS				
IBC TABLE 1705.3				
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT:	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4000
2. INSPECTION OF REINFORCING STEEL WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A206:	-	X	AWS D1.4, ACI 318: 26.6.4	
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		
C. INSPECT ALL OTHER WELDS	X	-		
3. INSPECTION OF ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4-A	-	X		
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ACI 318: 26.4, 26.12	1908.10
7. INSPECTION OF CONCRETE AND SHORT-CURE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3, 26.5.5	1908.9000
9. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	X	-	ACI 318: 26.10	
B. GROUPING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM.	X	-		
10. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.8	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1, 26B	
A. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. REFERENCE CODE IS ACI 318				
B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.				

PART 1: SCHEDULE OF SPECIAL INSPECTIONS				
IBC TABLE 1705.6				
REQUIRED VERIFICATION AND INSPECTION OF SOILS				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	IBC SECTION	REMARKS
CONTINUOUS	PERIODIC	REFERENCED STANDARD		
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE SLOPED PROPER MATERIAL.	-	X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SURROUND AND VERIFY SITE HAS BEEN PREPARED PROPERLY.	-	X		



ARCHITECTURE. INSPIRED.

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Advanced Engineering Consultants
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- Lighting Design
Zinkon Creative Studio
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Drawing Issue Dates

- Schematic Design Submittal 9/1/2023
- Design Development Submittal 10/11/2023

Revision Schedule		
#	Description	Date

CML Barnett Branch Addition/Renovation

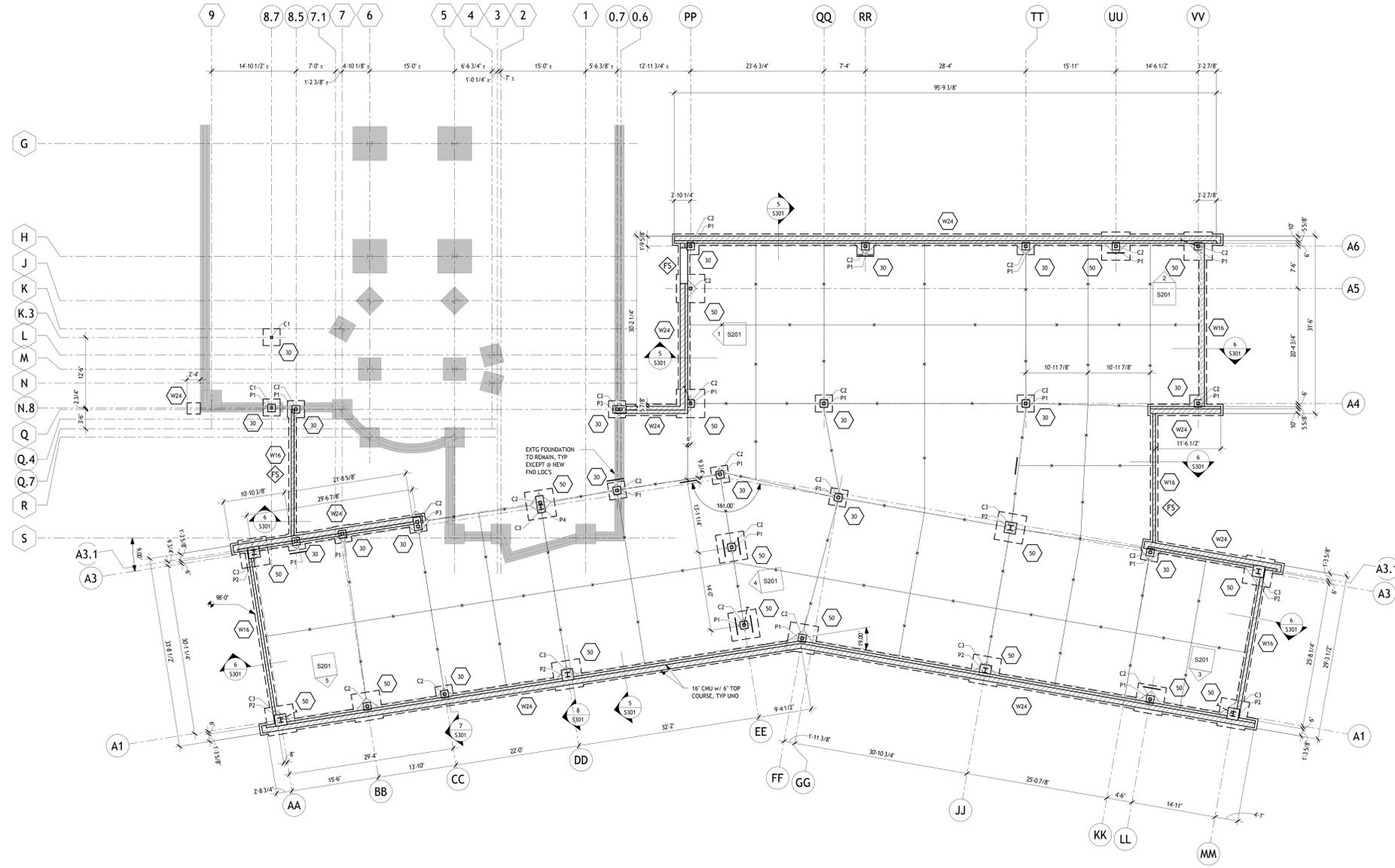
3434 E Livingston Ave, Columbus, OH 43227

NOT FOR CONSTRUCTION

SPECIAL INSPECTIONS

S003
Issue Date

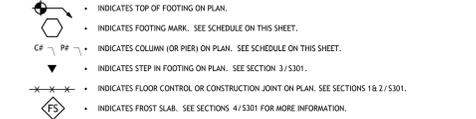
22/160



FOUNDATION PLAN
 1/8" = 1'-0"

FOUNDATION PLAN NOTES

- VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
- 4" SLAB ON GRADE WITH #4-W/6" MAX. W/4". TYPICAL EXCEPT AS NOTED. PROVIDE 4" OF GRANULAR SUBGRADE BELOW SLAB UNLESS NOTED OTHERWISE IN THE REFERENCED GEOTECHNICAL REPORT.
- TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
- DESIGN SOIL BEARING PRESSURE 1500 PSF ASSUMED. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION DOCUMENTS WAS OBTAINED FROM A REPORT ISSUED BY xxx, PROJECT NUMBER xxx, DATED xxx.
- INFORMATION FOR THE EXISTING BUILDING HAS BEEN TAKEN FROM DRAWINGS AND HAS NOT BEEN VERIFIED IN THE FIELD. CONTRACTOR SHALL VERIFY ALL RELEVANT CONDITIONS AND DIMENSIONS OF EXISTING CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
- ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
- TOP OF FOOTING ELEVATION 98'-0" UNLESS NOTED.
- REINFORCING STEEL INDICATED FOR FOOTINGS IS BOTTOM STEEL. THE LAST DIMENSION GIVEN FOR A FOOTING SIZE IS THE DEPTH. FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
- ALL EXTERIOR FOOTINGS ARE TO EXTEND A MINIMUM OF 2'-8" BELOW FINISHED GRADE.
- DO NOT BACKFILL AGAINST THE FOUNDATION WALLS UNTIL BOTH LEVELS OF THE FLOOR SLAB ARE IN PLACE OR PROVIDE TEMPORARY SUPPORT. WHERE FILL IS ON BOTH SIDES OF A WALL, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
- REFERENCE: GENERAL STRUCTURAL NOTES - S202; COLUMN SCHEDULE - THIS SHEET.
- SYMBOL LEGEND:



FOOTING SCHEDULE - ISOLATED FOOTINGS

TYPE	WIDTH	SIZE		THICKNESS	REINFORCING	REMARKS
		LENGTH	HEIGHT			
S3	3'-0"	3'-0"	1'-0"	1'-4"	(1) #4 EW6	
S0	5'-0"	5'-0"	1'-4"	1'-4"	(7) #5 EW6	

FOOTING SCHEDULE - WALL FOOTINGS

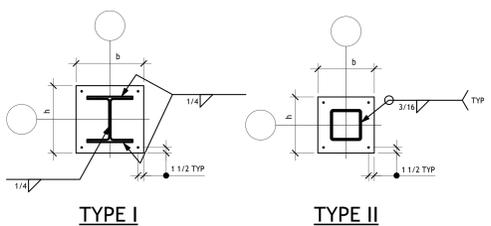
TYPE	WIDTH	SIZE		THICKNESS	REINFORCING	REMARKS
		LENGTH	HEIGHT			
W16	1'-4"	CONT	1'-0"	1'-0"	(2) #5 CONT	
W24	2'-0"	CONT	1'-0"	1'-0"	(2) #5 CONT	

PIER SCHEDULE

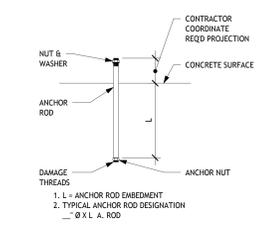
MARK	WIDTH	LENGTH	REINFORCING	REMARKS
P1	1'-4"	1'-4"	(4) #4 VERT & (4) #5 @ 12" c/c	TYPE I
P2	2'-0"	2'-0"	(8) #4 VERT & (4) #5 @ 12" c/c	TYPE II
P3	2'-4"	1'-4"	(8) #4 VERT & (4) #5 @ 12" c/c	TYPE II
P4	3'-0"	1'-4"	(8) #4 VERT & (4) #5 @ 12" c/c	TYPE II

COLUMN SCHEDULE

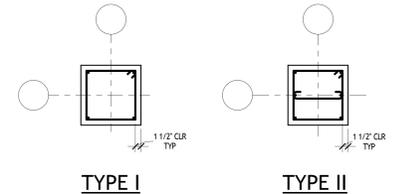
MARK	SIZE	BASE PLATE SIZE & TYPE (MIN)	ANCHOR BOLTS x EMBED	REMARKS
C1	HSS60X14	3/4"X12"X1'-0" TYPE II		
C2	HSS60X14	3/4"X12"X1'-0" TYPE II		
C3	W10X4	1"X18"X1'-6" TYPE I		



BASE PLATE DETAILS
 3/4" = 1'-0"



TYPICAL ANCHOR ROD DETAIL
 3/4" = 1'-0"



PIER REINFORCEMENT DETAIL
 3/4" = 1'-0"

Consultants:

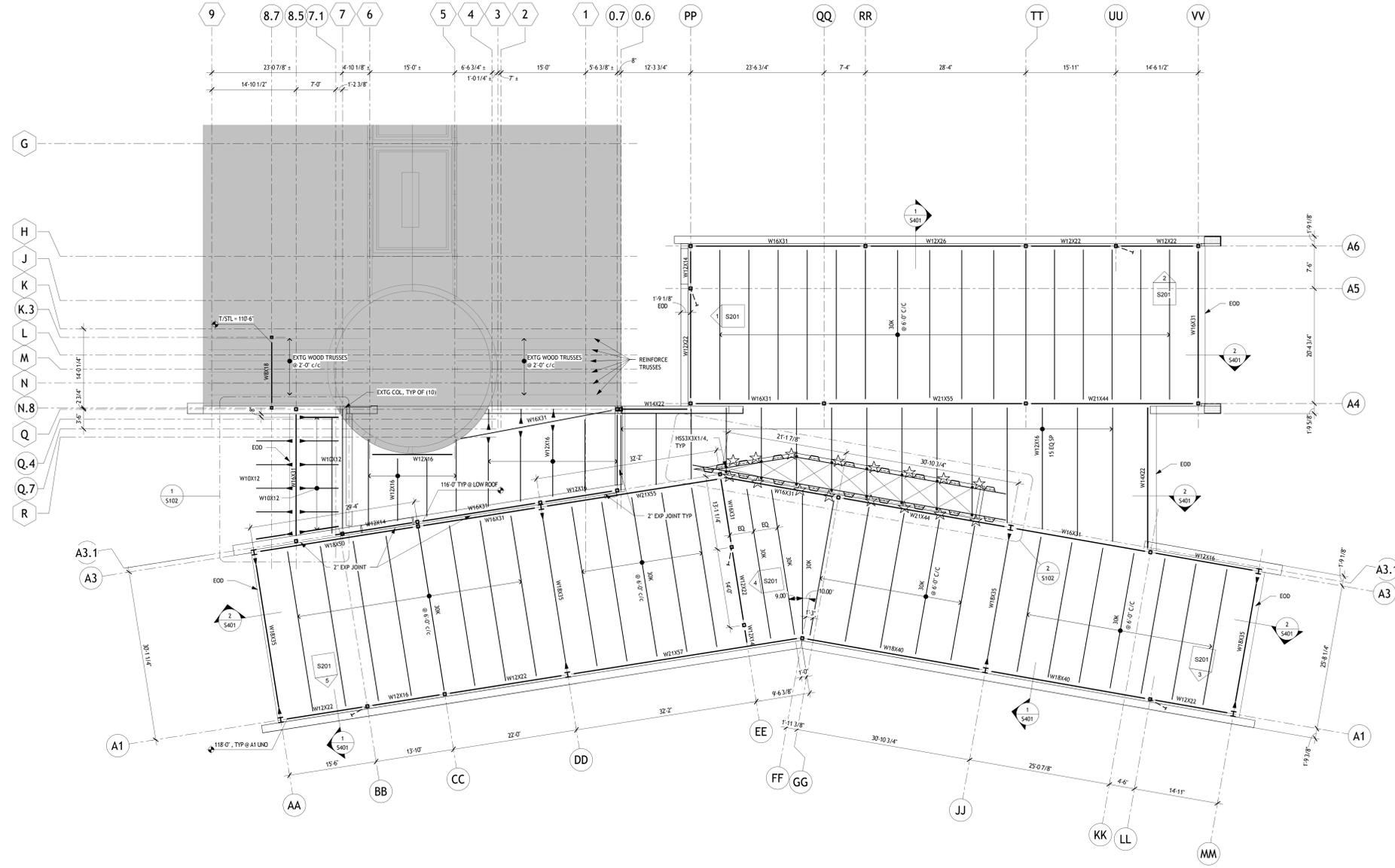
- Civil Engineer
 Moody Engineering
 205 Spruce St. Suite 200, Columbus OH 43215
- Landscape Architect
 MKSK
 482 Ludlow St. Columbus OH 43215
- Structural Engineer
 SMBH
 1188 Queen Rd. Suite 200, Columbus OH 43215
- MEP Engineer
 Advanced Engineering Consultants
 1403 Dublin Rd. Columbus OH 43215
- Lighting Design
 Zinkon Creative Studio
 1222 Hill Rd. Suite 121, Pickerington OH 43107

Drawing Issue Dates

- Schematic Design Submittal
 9/1/2023
- Design Development Submittal
 10/11/2023

Revision Schedule

#	Description	Date
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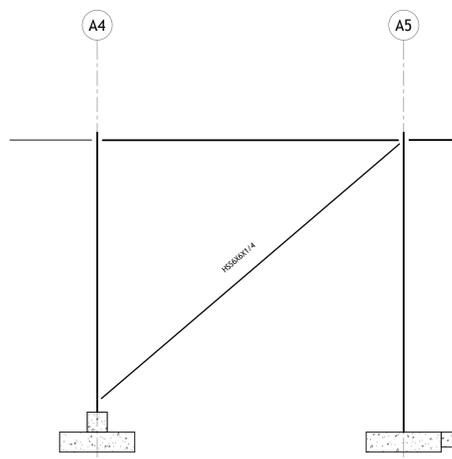
Drawing Issue Dates

Schematic Design Submittal
9/1/2023

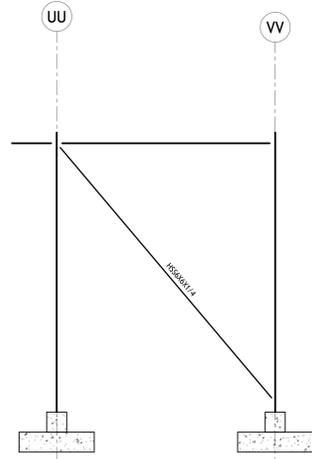
Design Development Submittal
10/11/2023

Revision Schedule

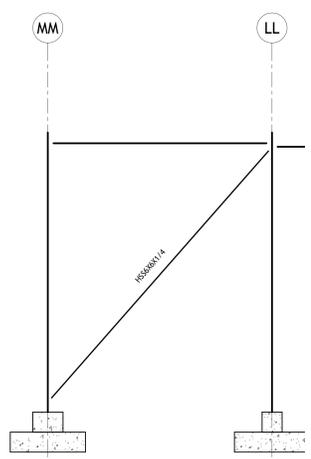
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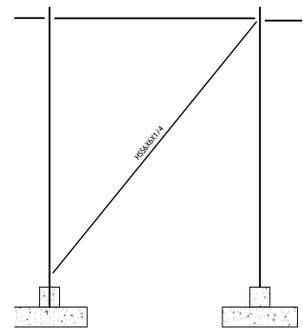
1
ELEVATION
S201 1/4" = 1'-0"



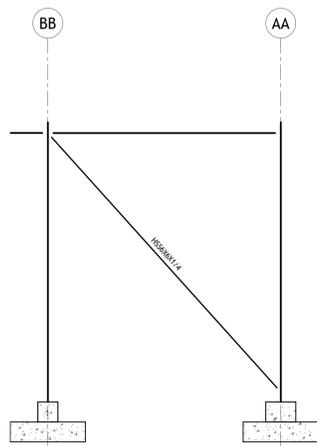
2
ELEVATION
S201 1/4" = 1'-0"



3
ELEVATION
S201 1/4" = 1'-0"



4
ELEVATION
S201 1/4" = 1'-0"



5
ELEVATION
S201 1/4" = 1'-0"

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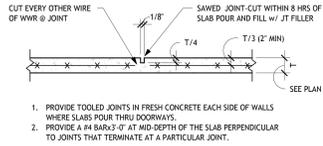
NOT FOR CONSTRUCTION

BRACE FRAMING
ELEVATIONS &
DETAILS

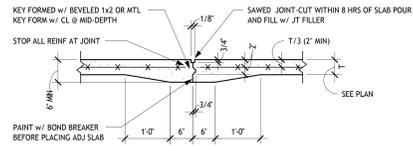
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Issue Date

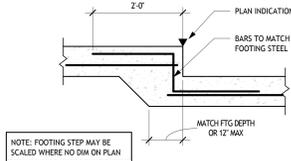
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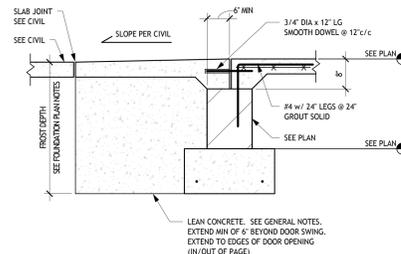
1
S301
NO SCALE
DETAIL



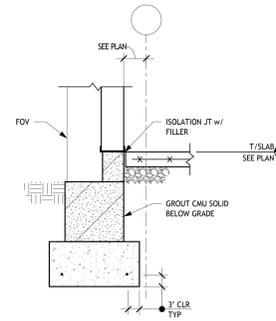
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S301
NO SCALE
DETAIL



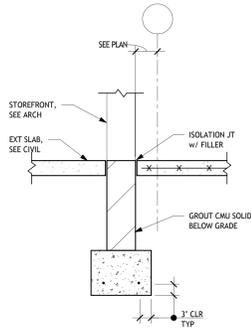
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S301
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DETAIL



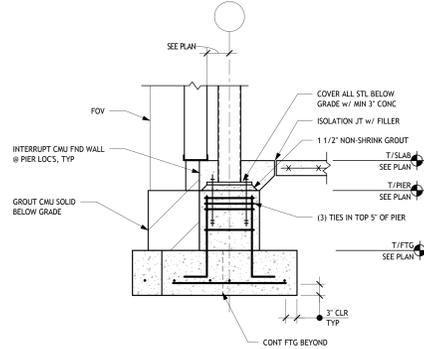
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S301
NO SCALE
SECTION



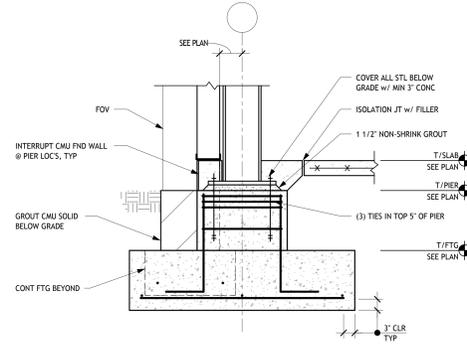
5
S301
3/4" = 1'-0"
SECTION



6
S301
3/4" = 1'-0"
SECTION



7
S301
3/4" = 1'-0"
SECTION



8
S301
3/4" = 1'-0"
SECTION

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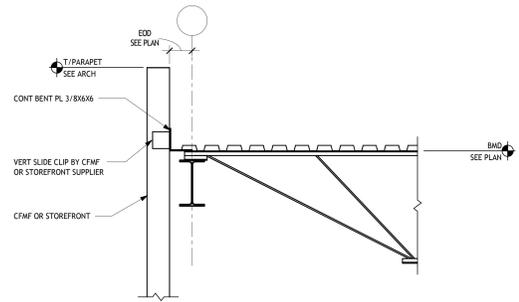
Lighting Design
Zirkon Creative Studio
1225 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

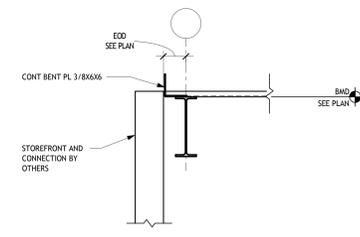
Schematic Design Submittal
9/1/2023
Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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SECTION 1
S401 3/4" = 1'-0"



SECTION 2
S401 3/4" = 1'-0"

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SECTIONS

S401
Issue Date

Revision Schedule		
#	Description	Date

DEMOLITION - GENERAL NOTES

- A. Items shown dashed are to be removed - typical. All shaded walls indicate existing construction to remain.
- B. Remove ceilings referenced by coded notes.
- C. Remove flooring down to the existing slab or finished floor material as required in removed areas as required to provide a clean substrate free of adhesive or grout for the installation of new finished flooring materials. Coordinate areas with enlarged plans and new work plans.
- D. All hatching of existing slab required for electrical/plumbing works must be patched and prepared for new work finishes. Coordinate areas with new work plans.
- E. Coordinate all demolition work with New Work plans. Review New Work drawings to verify and/or determine extent of demolition prior to performing demolition work.
- F. Refer to Structural, Mechanical, Plumbing, and Electrical plans for extent of equipment, fixtures, and ductwork to be removed. Remove abandoned or unused plumbing.
- G. For all removed finishes, furnishings, casework and building elements the demolition shall include all mounting materials, adhesives, hardware, fasteners or other associated supporting elements of the construction.
- H. At interior walls where doors and windows have been removed, patch back the opening to match the thickness and construction of the adjacent wall surfaces as required for the new work.
- I. At all removed doors, salvage the locksets and exit devices and turn over to the University. Dispose of all other hardware.
- J. At all removed interior wall, patch to match adjacent wall and ceiling.
- K. Ceiling grid can be demolished as necessary to put in the new sprinkler and HVAC systems. Drop-in light fixtures in areas to be retained to be wired in place until installation. ACT to also be reserved for reinstallation.
- L. All ceiling tiles that to be salvaged for re-use should be re-installed in good repair, otherwise repair.
- M. The Roof plan is drawn to represent general sizes, locations, and configurations of building elements. The drawing scale and dimensions indicated are approximate and must be verified in field.
- N. Remove all flashing, curbs, temporary railings, and other roof accessories as required to install new roof.

DEMOLITION PLAN - CODED NOTES

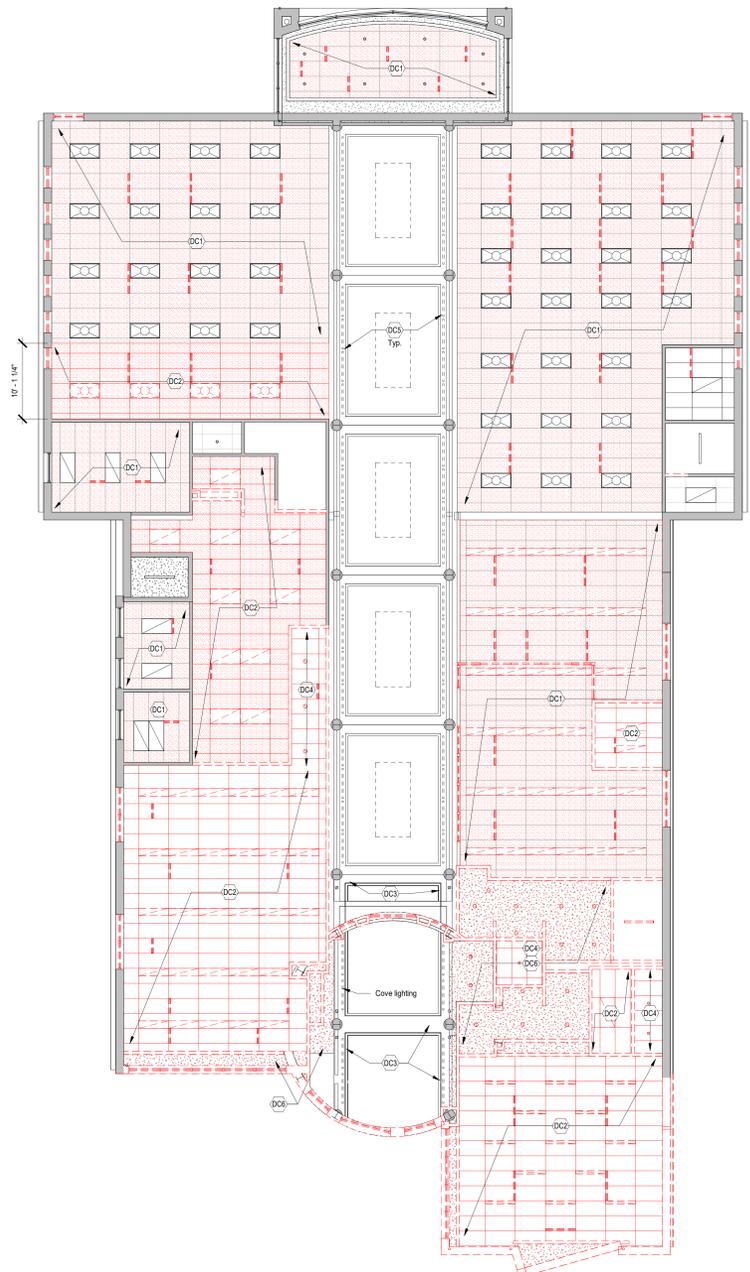
- D1 Remove all flooring material in hatched area down to slab. Salvage Carpet for re-use.
- D2 Disconnect and remove all plumbing fixtures and associated piping, hangers and vents. Refer to MEP Demo.
- D3 Demo all fixed cabinetry, casework, sink and solid surface. Salvage Hinges for re-use.
- D4 Demo rotunda wall to extents shown on drawing 2/AD102.
- D5 Disconnect and remove all MEP equipment. Refer to MEP Demo.
- D6 Demo Chainlink fence.
- D7 Remove storefront glazing. Existing frame, trim, and hardware to remain.
- D8 Demo ceramic tile. See hatch for extents.
- D9 Demo VCT. See hatch for extents.
- D10 Salvage door leaf for re-installation. Door frame to remain. Refer to New Work Plans and Door schedule.
- D11 Demolish window and remove all hardware and frame, typical.

DEMOLITION RCP - CODED NOTES

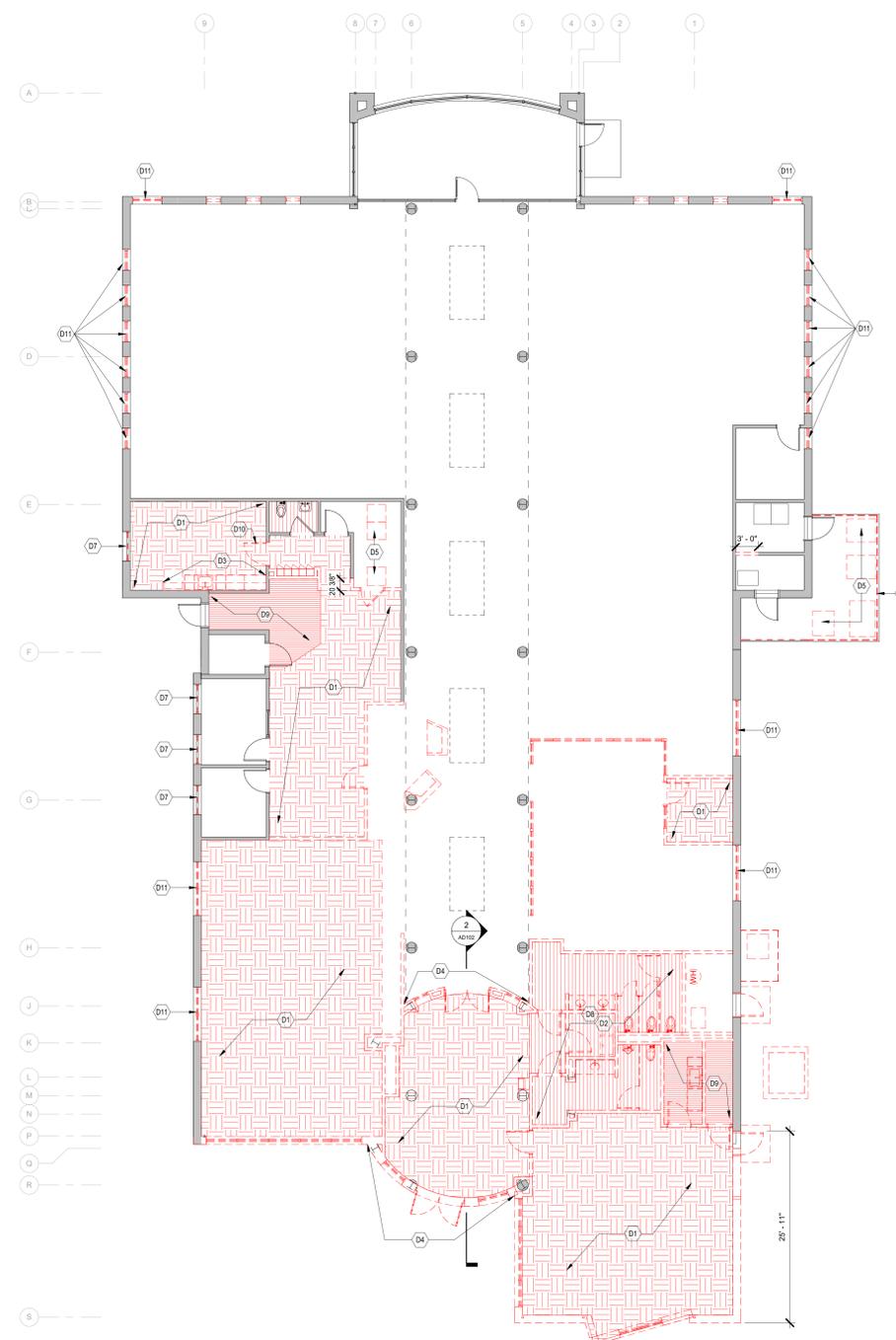
- DC1 Remove existing ACT ceiling tiles and salvage for reuse, grid to remain. At contractor's option, alternatively remove and replace grid and tiles, either entirely or partially (new grid and tiles to match existing). Existing light fixtures and other ceiling-mounted devices typically to remain or be reinstalled unless noted otherwise. Refer to MEP drawings.
- DC2 Remove existing ACT ceiling tiles, grid, and all ceiling-mounted devices. Salvage ceiling tiles and light fixtures for reinstallation in another location or return to owner.
- DC3 Existing structural beam wraps to remain.
- DC4 Can light fixtures to be removed. Return to owner if requested, otherwise dispose of.
- DC5 Cove lighting to remain (beyond).
- DC6 Remove existing gypsum ceiling and all light fixtures and ceiling-mounted devices.

DEMOLITION PLANS LEGEND

- Remove existing carpet extents. See coded note D1
- Remove existing Ceramic tile extents. See coded note D8
- Remove existing VCT extents. See coded note D9
- Demolition of roof structure extents see coded note DR1
- Remove existing roof membrane extents see DR2



2 Demolition RCP
1/8" = 1'-0"



1 Demolition Floor Plan
1/8" = 1'-0"

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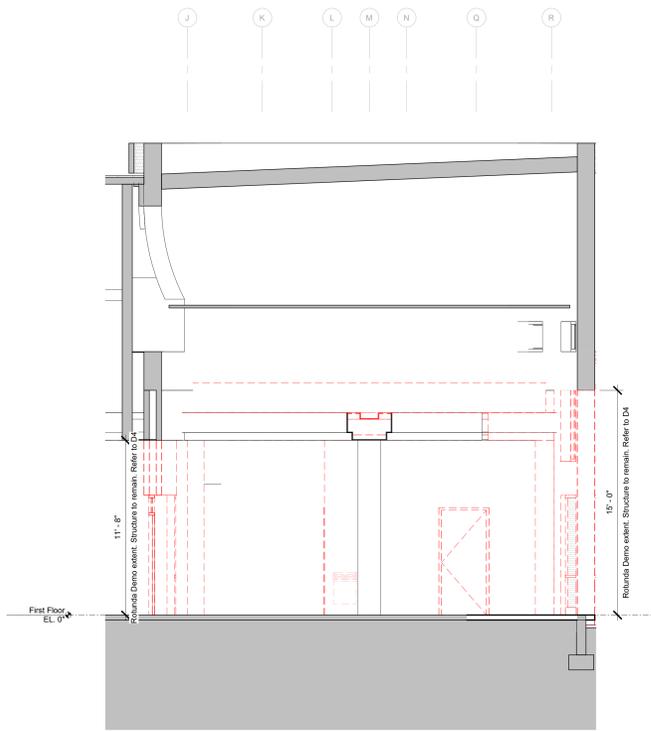
NOT FOR CONSTRUCTION

Demolition Plan and
RCP

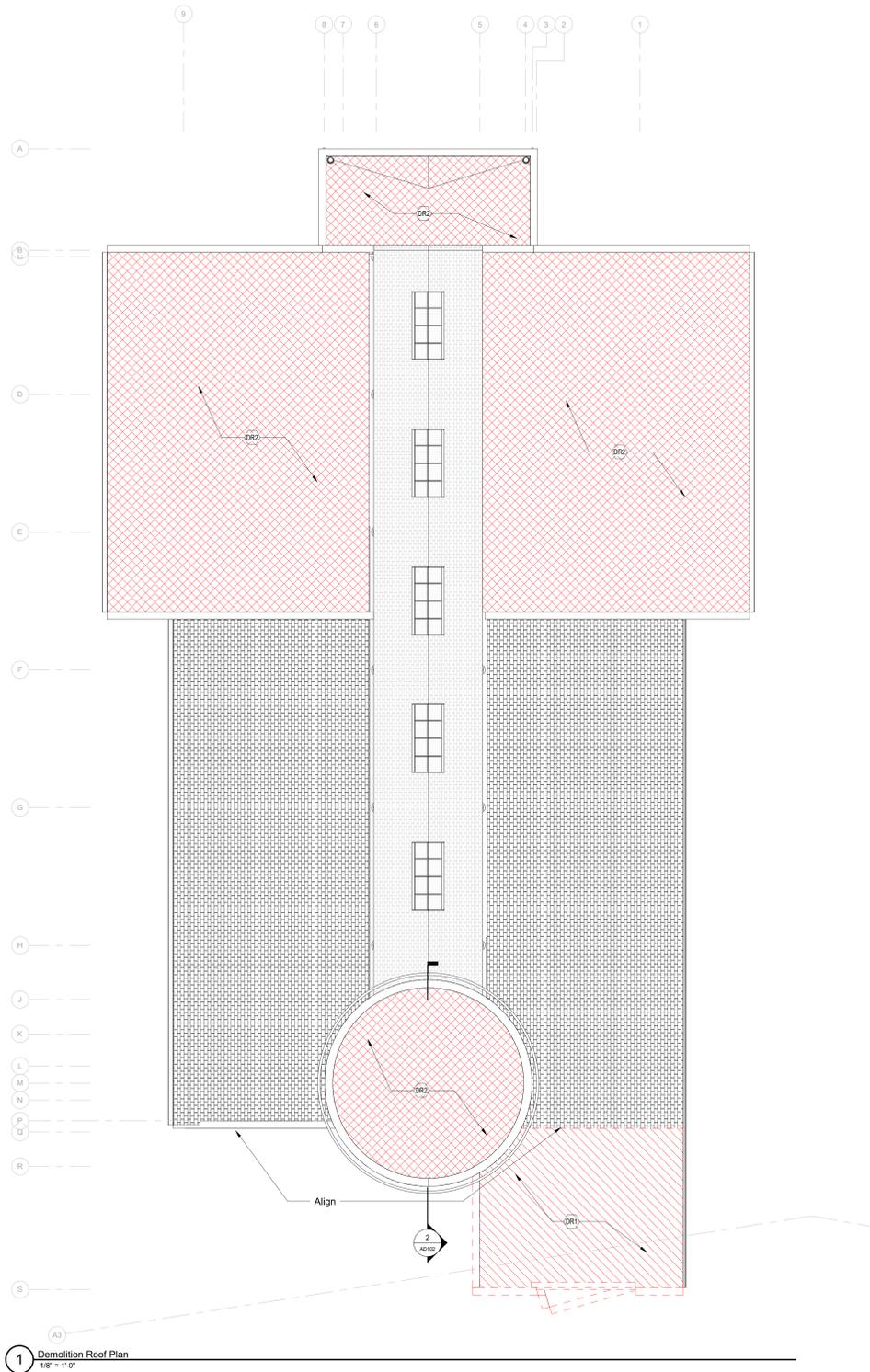
Architectural
AD101

Issue Date

22160



2 Section through Rolunda
1/4" = 1'-0"



1 Demolition Roof Plan
1/8" = 1'-0"

DEMOLITION - GENERAL NOTES

- A. Items shown dashed are to be removed - typical. All shaded walls indicate existing construction to remain.
- B. Remove ceilings referenced by coded notes.
- C. Remove flooring down to the existing slab or finished floor material as required in removed areas as required to provide a clean substrate free of adhesive or grout for the installation of new finished flooring materials. Coordinate areas with enlarged plans and new work plans.
- D. All trenching of existing slab required for electrical/plumbing works must be patched and prepared for new work finishes. Coordinate areas with new work plans.
- E. Coordinate all demolition work with New Work plans. Review New Work drawings to verify and/or determine extent of demolition prior to performing demolition work.
- F. Refer to Structural, Mechanical, Plumbing, and Electrical plans for extent of equipment, fixtures, and ductwork to be removed. Remove abandoned or unused plumbing.
- G. For all removed finishes, furnishings, casework and building elements the demolition shall include all mounting materials, adhesives, hardware, fasteners or other associated supporting elements of the construction.
- H. At interior walls where doors and windows have been removed, patch back the opening to match the thickness and construction of the adjacent wall surfaces as required for the new work.
- I. At all removed doors, salvage the locksets and exit devices and turn over to the University. Dispose of all other hardware.
- J. At all removed interior wall, patch to match adjacent wall and ceiling.
- K. Ceiling grid can be demolished as necessary to pull in the new sprinkler and HVAC systems. Drop-in light fixtures in areas to be retained to be wired in place until installation. ACT to also be reserved for reinstallation.
- L. All ceiling tiles that to be salvaged for re-use should be re-installed in good repair, otherwise replace.
- M. The Roof plan is drawn to represent general sizes, locations, and configurations of building elements. The drawing scale and dimensions indicated are approximate and must be verified in field.
- N. Remove all flashings, curbs, temporary railings, and other roof accessories as required to install new roof.

DEMOLITION PLAN - CODED NOTES

- D1 Remove all flooring material in hatched area down to slab. Salvage Carpet for re-use.
- D2 Disconnect and remove all plumbing fixtures and associated piping, hangers and vents. Refer to MEP Demo.
- D3 Demo all fixed cabinetry, casework, sink and solid surface. Salvage fridge for re-use.
- D4 Demo rotunda wall to extents shown on drawing 2/AD102.
- D5 Disconnect and remove all MEP equipment. Refer to MEP Demo.
- D6 Demo Chainlink fence.
- D7 Remove storefront glazing. Existing frame, trim, and hardware to remain.
- D8 Demo ceramic tile. See hatch for extents.
- D9 Demo VCT. See hatch for extents.
- D10 Salvage door leaf for re-installation. Door frame to remain. Refer to New Work Plans and Door schedule.
- D11 Demolish window and remove all hardware and frame, typical.

DEMOLITION ROOF PLAN - CODED NOTES

- DR1 Demolish roof completely, including all structure and accessories. Demolition should align with west parapet.
- DR2 Demo existing roofing and insulation down to roof structure. Existing structure to remain.

DEMOLITION PLANS LEGEND

- Remove existing carpet extents. See coded note D1.
- Remove existing Ceramic tile extents. See coded note D8.
- Remove existing VCT extents. See coded note D9.
- Demolition of roof structure extents see coded note DR1.
- Remove existing roof membrane extents see note DR2.

Drawing Issue Dates

Schematic Design Submittal	9/1/2023
Design Development Submittal	10/11/2023

Revision Schedule

#	Description	Date
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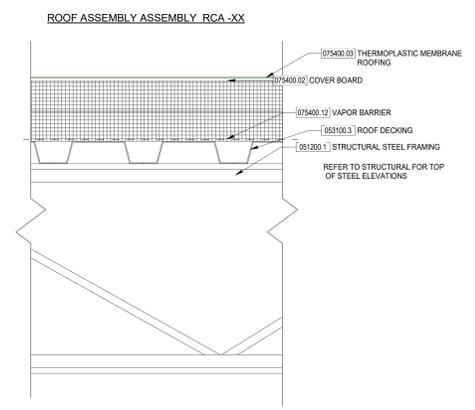
Lighting Design
Zinkon Creative Studio
1222 Hill Rd N. Suite 121, Pickerington OH 43147

Drawing Issue Dates

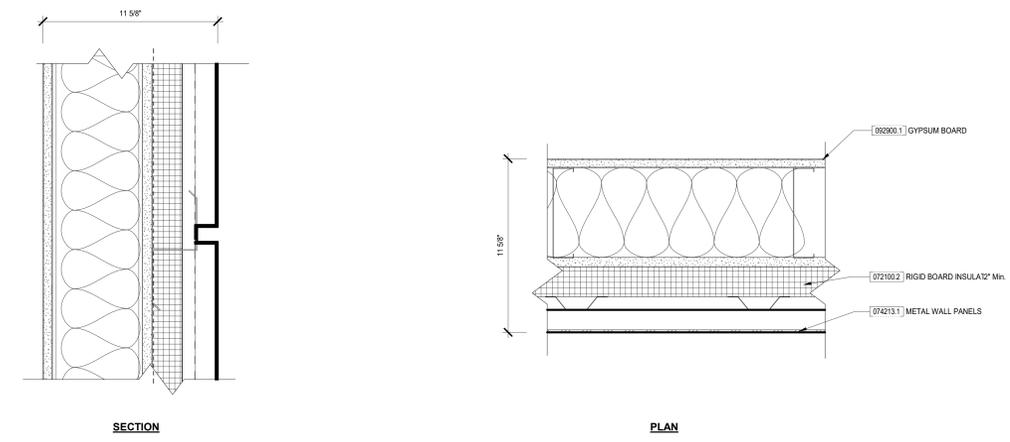
Schematic Design Submittal
9/1/2023
Design Development Submittal
10/11/2023

Revision Schedule

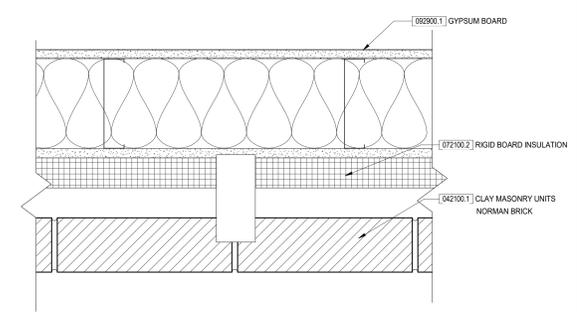
#	Description	Date



EXTERIOR METAL PANEL WALL ASSEMBLY



EXTERIOR BRICK WALL ASSEMBLY



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Construction
Assemblies

A010
Issue Date

SSMA Product Identification

Member Depth:
(Example 6" = 600/100 inches)
All member depths are taken in 1/100 inches.
For all "T" sections member depth is the inside to inside dimension.

Flange Width:
(Example 1 5/8" = 1.625 x 1/100 inches)
All Flange Widths are taken in 1/100 inches

600 S 162 - 54

Style:
S Stud or J-Box Sections
T Track Sections
U Channel Sections
F Furring Channel Sections
CH Shallow Studs

Material Thickness:
(Example: 0.054 in = 54 mils, 1mil = 1/1000 in)
Material thickness is the minimum base metal thickness in mils.
Minimum base metal thickness represents 95% of the design thickness.

Material Thickness		Keynote Legend	
Designation Thickness (mils)	Reference Gauge (CSI Spec Division)		
18	25	02216.1	NON-STRUCTURAL METAL FRAMING
27	22	02200.1	GYPSUM BOARD
30	20-Drywall		
33	20-Structural		
43	18		
54	16		
68	14		
97	12		
118	10		

Unless otherwise indicated by the structural drawings utilize the following:
Cold Formed Metal Framing - 18 gauge (43 mil)
Non-Structural Metal Framing - 20 gauge (30 mil)

Key for Wood & Metal Stud Partitions

Construction Type:
(CSI Spec Division)
5 Cold Formed Metal Framing
6 Wood Framing
9 Non-Structural Metal Framing

Sheathing Designation:
90-X-X

Size:	Steel Construction	Wood Construction	Head Condition:	Stud Height	Finish Height
0	1 1/8" Furring Channel	-	1	Under side of Ceiling	Under side of Ceiling
1	1 1/2" Furring Channel 3/4" Furring	4x2 Stud	2	6" Above Ceiling	6" Above Ceiling
2	2 1/2" C-Stud	-	3	Structure Above	Under side of Ceiling
3	3 5/8" C-Stud	-	4	Structure Above	6" Above Ceiling
4	4" C-Stud	2x4 Stud			
5	5 1/2" C-Stud	-			
6	6" C-Stud	2x6 Stud			
8	8" C-Stud	2x8 Stud			
12	2 1/2" CH-Shallow	-			
3/4"	4" CH-Shallow	-			
V	various C-Stud	2x4 Stud			

*If no condition is noted, stud and finish extend to structure above

Sheathing Designation

# of Layers	Material Thickness	Material(s)
A	1 5/8"	Gypsum board on one side, no finish on other side
B	1 5/8"	Gypsum board on each side
C	2 5/8"	Gypsum board on each side
D	1 5/8"	Gypsum board on one side
	1 5/8"	Gypsum board on 1/2" resilient channels other side
E	2 5/8"	Gypsum board on one side
	2 5/8"	Gypsum board on 1/2" resilient channels other side
F	1 5/8"	Gypsum board on one side
	1"	Gypsum shalfliner in CH stud
G	2 5/8"	Gypsum board on one side
	1"	Gypsum shalfliner in CH stud
H	1 5/8"	Gypsum board on 1/2" OSB on one side
	1 5/8"	Gypsum board on 1/2" resilient channels other side
J	2 5/8"	Gypsum board on 1/2" OSB on one side
	2 5/8"	Gypsum board on 1/2" resilient channels other side

Board Types by Location

Regular Duty Gypsum Board Locations

- Manager offices
- Break room
- Staff private room
- Staff restrooms

Abuse Resistant Gypsum Board Locations (typ. in most spaces)

- Corridors
- Storage rooms
- Mechanical rooms
- Staff work areas
- Restroom walls without tile

Common Board Locations

- Restroom walls with tile

Fire Rated Walls

- Type "X" gypsum board minimum - Refer to corresponding UL assemblies for specific requirements. Installed assembly shall correspond to the UL assembly.

Fire Rated Ceilings

- Type "X" gypsum board minimum - Refer to corresponding UL assemblies for specific requirements. Installed assembly shall correspond to the UL assembly.

Partition General Notes

- Interior partitions shall utilize wall board types in accordance with the table "Board Types by Location".
- Partitions to be rated as shown on floor plans.
- Fire rated assemblies shall be installed in accordance with the specified UL Assemblies, including dimensions, manufacturers, products, fastenings, and other such requirements.
- Extend all walls to the underside of the structure unless noted otherwise.
- Wall assemblies that allow horizontal travel within the concealed wall space shall be fire blocked at 10' O.C. maximum, in accordance with O.B.C. Section 717.2, including assemblies utilizing resilient channels.
- Interior partitions are to be acoustic in accordance with the table "Acoustic Partitions by Location".

Material Thickness

Designation Thickness (mils)	Reference Gauge (CSI Spec Division)
18	25
27	22
30	20-Drywall
33	20-Structural
43	18
54	16
68	14
97	12
118	10

Unless otherwise indicated by the structural drawings utilize the following:
Cold Formed Metal Framing - 18 gauge (43 mil)
Non-Structural Metal Framing - 20 gauge (30 mil)

Key for Concrete, Masonry & Special Construction

Construction Type:
(CSI Spec Division)
3 Concrete Construction
4 Masonry Construction
13 Special Construction

Sheathing Designation:
400-0

Nominal Size (in inches) or E - Existing	Partition Height	Finish Height
2	Structure Above	Under side of Ceiling
3	Structure Above	6" Above Ceiling
4	Structure Above	Structure Above

*If no condition is noted, partition and finish extend to structure above

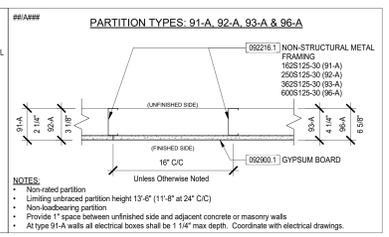
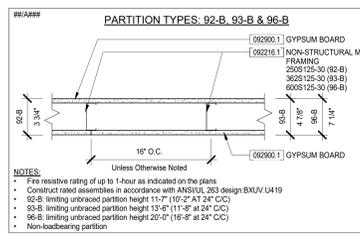
Fire & Smoke Ratings

Smoke Partition

1-Hour Rated Partition

2-Hour Rated Partition

3-Hour Rated Partition



SCHOOLEY CALDWELL

ARCHITECTURE. INSPIRED.

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columbusoh43215@schooleyaldwell.com

EVOKE

Studio | Architecture

401 Foster St, Durham NC 27701
evokestudio.com 919-495-6070

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MEP Engineer
Advanced Engineering Consultants
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Lighting Design
Zinkon Creative Studio
1222 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Issue	Date
Schematic Design Submittal	9/1/2023
Design Development Submittal	10/11/2023

Revision Schedule

#	Description	Date

CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Wall Partitions

Architectural

A020

Issue Date

22/160

Consultants:

Civil Engineer
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205 Spruce St, Suite 200, Columbus OH 43215

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Structural Engineer
SMBH
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MEP Engineer
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Lighting Design
Zinkon Creative Studio
1222 Hill Rd, Suite 101, Pickerington OH 43107

Drawing Issue Dates

Schematic Design Submittal
9/1/2023

Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Floor Plan

Architectural
A101

Issue Date

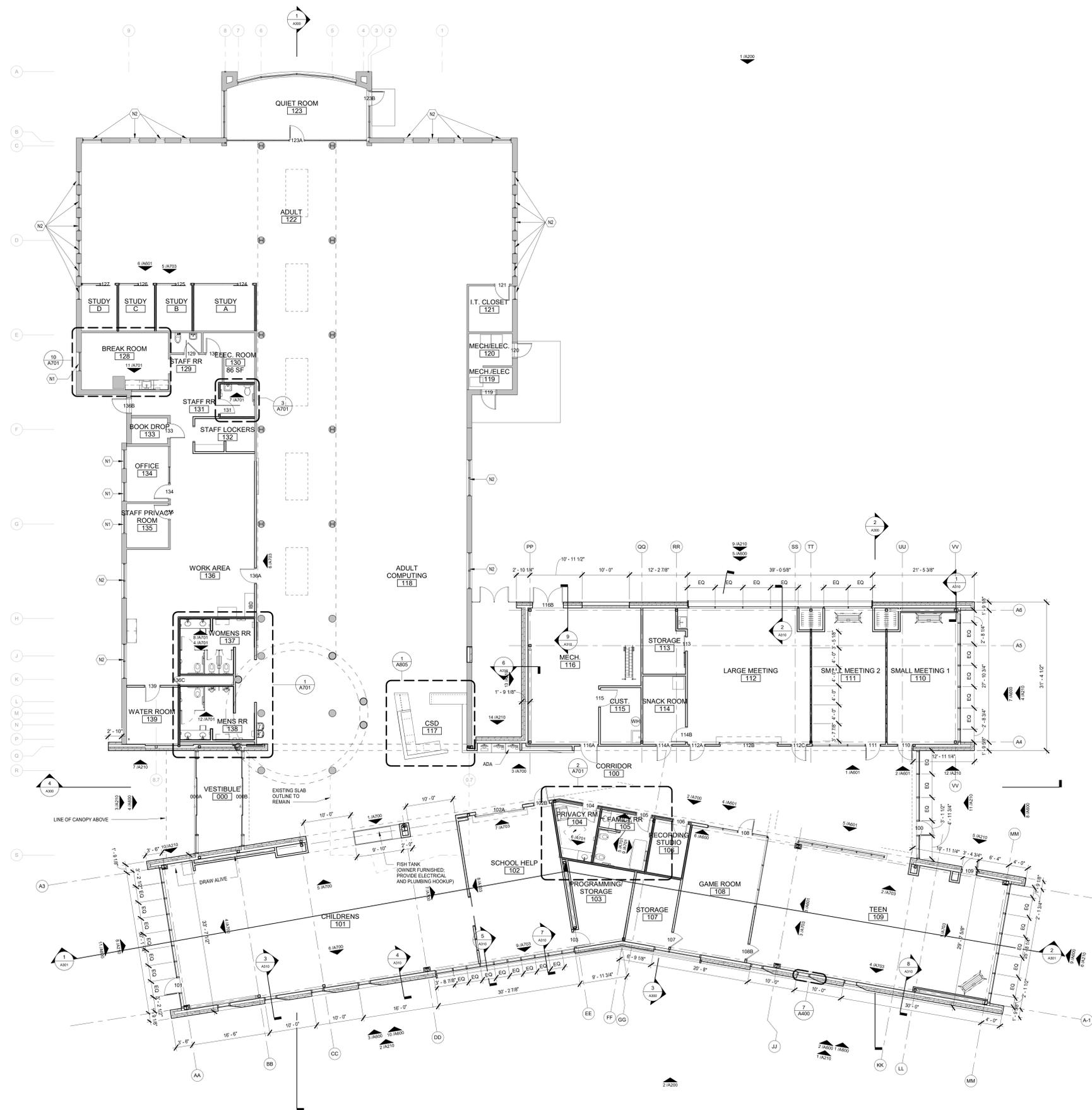
22160

NEW WORK - GENERAL NOTES

- A. The Contractor should inform the Architect if conflicts exist between drawings.
- B. Refer to Door and Frame Schedule for all door requirements and opening details.
- C. In the case of minor discrepancies between MEP and Architectural drawings in the location of ceiling-mounted components, the Architectural Reflected Ceiling Plan shall govern. In the case of major discrepancies, the Architect shall be notified of the discrepancy when the issue is discovered and before proceeding with the work.
- D. The Contractor shall provide access panels in hard ceilings as required for the inspection of equipment above the ceiling.
- E. All new ceiling grids to be centered within a space unless noted otherwise.
- F. Unless noted otherwise, all fixtures and ceiling-mounted equipment to be mounted in the center of the room, ceiling tile, or space.
- G. All walls of all rooms with exposed structure ceilings to extend and seal to the structure above.
- H. The Contractor shall channel and patch all existing walls where new utilities are to be concealed within it. It is the intent for all utilities to be buried within the walls or not visible (above ceiling). Work to be coordinated with Architect and routing paths to be approved.
- I. Refer to finish Plans for locations of Bulk-insulate wall finishes.
- J. All dimensions are to face of finish or to center line of column, unless noted otherwise.

NEW WORK - CODED NOTES

- N1 New glazing. Frame to remain.
- N2 New Stormfront Typ. See sheet A600 for more information.



1 Floor Plan
1/8" = 1'-0"

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Consultants:

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Lighting Design
Zinkon Creative Studio
1222 Hill Rd, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Schematic Design Submittal
9/1/2023

Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Reflected Ceiling Plan

A151
Issue Date

22160

REFLECTED CEILING PLAN - GENERAL NOTES

- A. PROVIDE CES AT ALL EXPOSED CEILINGS IN PUBLIC SPACES.
- B. LAY-IN CEILINGS SHALL BE CE1 UNLESS OTHERWISE NOTED.
- C. CE2 BULKHEAD AT SKYLIGHTS. PROVIDE LED STRIP LIGHT ACCENT AT SKYLIGHTS.

RCP - CODED NOTES

- 1 Align new ACT ceiling grid to adjacent existing grid.
- 2 Acoustical roof deck similar to Toris A by Epic Metals 2.5' roof deck (NRC 0.95).
- 3 White brake metal panel to roof structure.

REFLECTED CEILING PLAN LEGEND

- CE-1-2x4 ACT (095113.1.1)
- CE-2/CE-2A - Gypsum Board (095113.1.2, 095113.1.3)
- CE-3 - Interior wood panel ceiling (095426)
- CE-4 - Felt Ceiling (095113.1.4)
- Open to structure above
- ACM 1/2

LIGHTING LEGEND

- 4" RECESSED CAN
- 2X2 RECESSED
- 2X4 RECESSED
- 4" IN HUNG STRIP LIGHT
- 48" AND 32" DECORATIVE FIXTURE
- 4" SUSPENDED PENDANT
- TRACK LIGHT

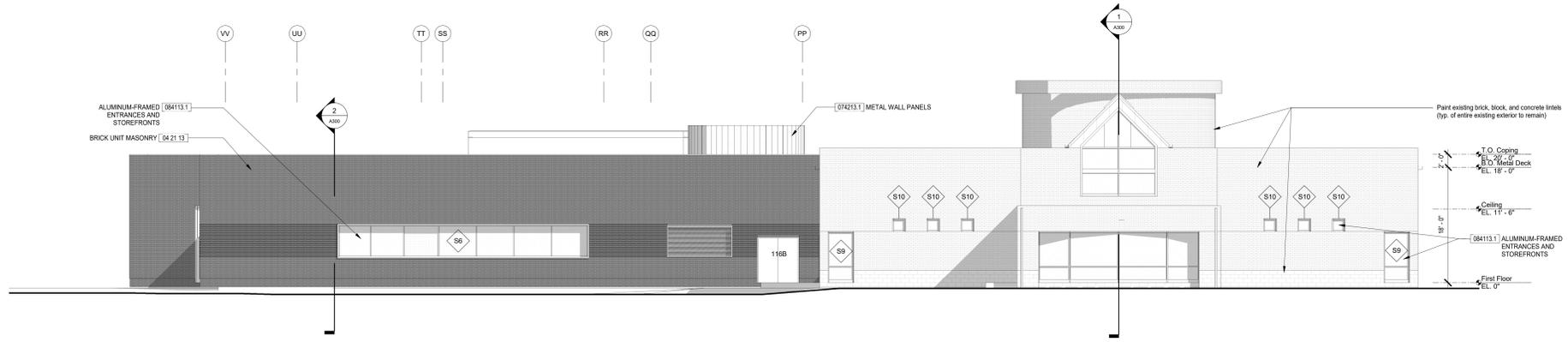


1 Reflected Ceiling Plan
1/8" = 1'-0"

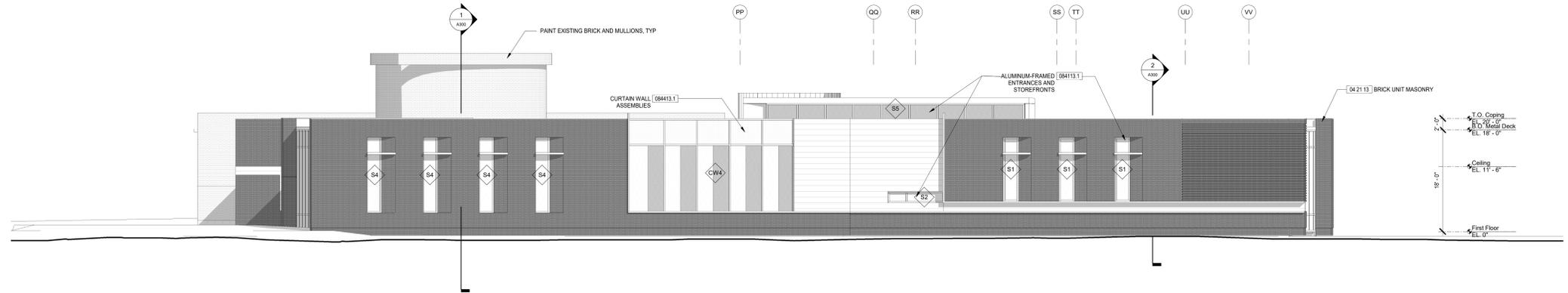
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Revision Schedule		
#	Description	Date



1 North Elevation
1/8" = 1'-0"



2 South Elevation
1/8" = 1'-0"

CML Barnett
Branch
Addition/Renovation
3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

N/S Exterior
Elevations

Architectural
A200
Issue Date

22160

Consultants:

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Moody Engineering
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MEP Engineer
Advanced Engineering Consultants
1403 Oakley Rd, Columbus OH 43215

Lighting Design
Zirkon Creative Studio
1222 Hill Rd, Suite 121, Pickerington OH 43147

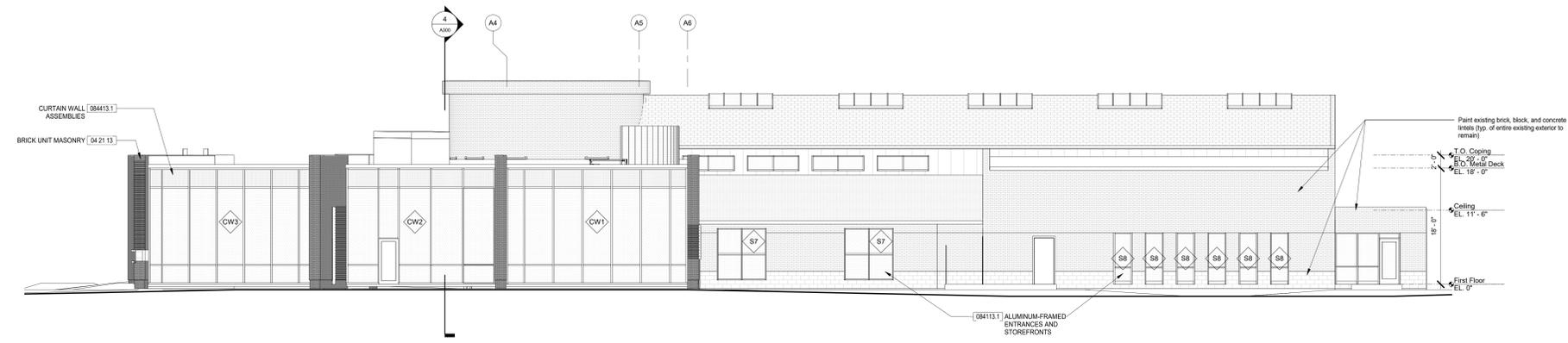
Drawing Issue Dates

Schematic Design Submittal
9/1/2023

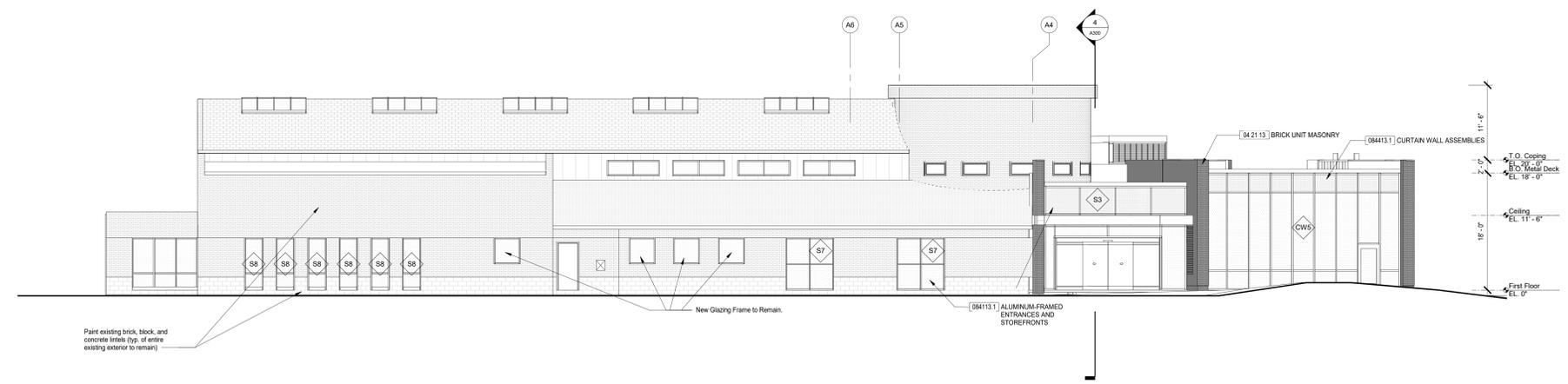
Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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1 East Elevation
1/8" = 1'-0"



2 West Elevation
1/8" = 1'-0"

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CML Barnett
Branch
Addition/Renovation

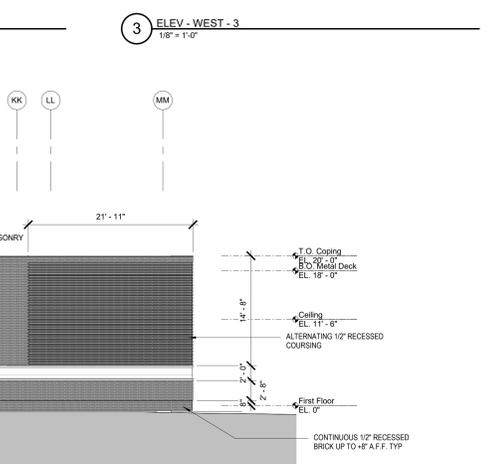
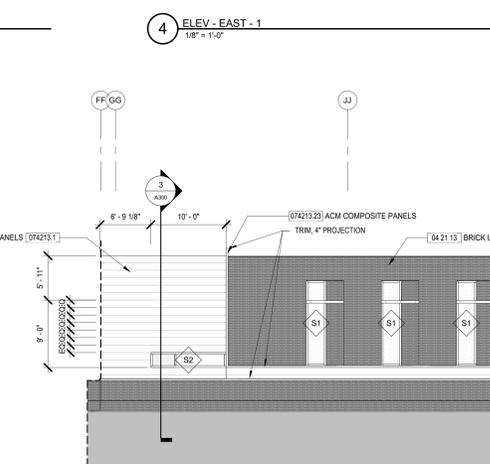
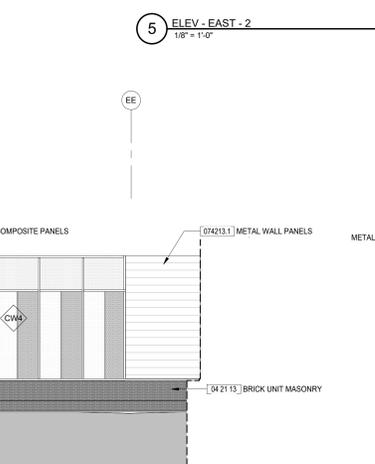
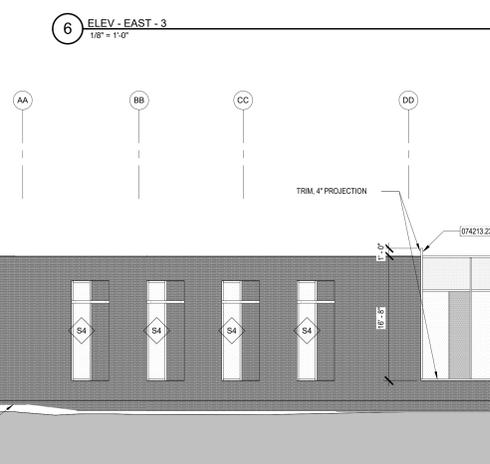
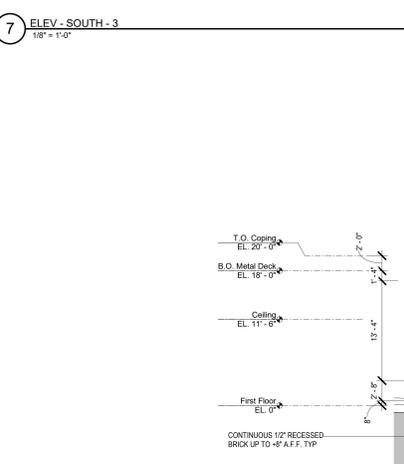
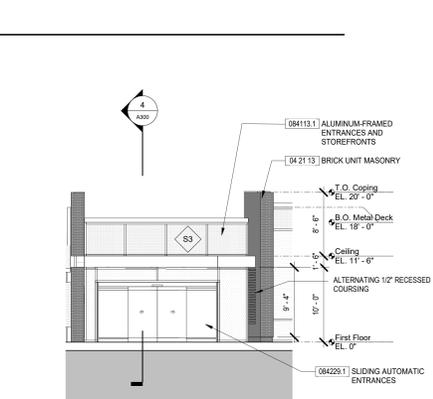
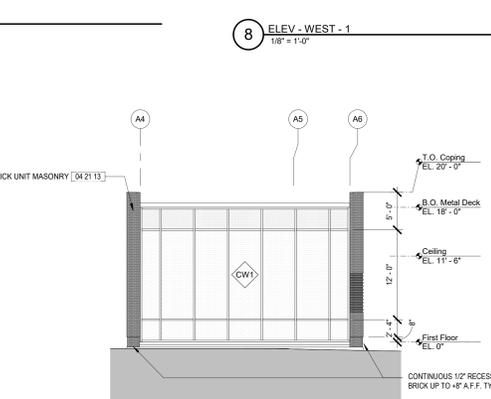
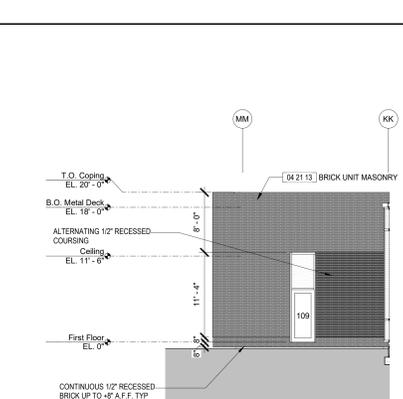
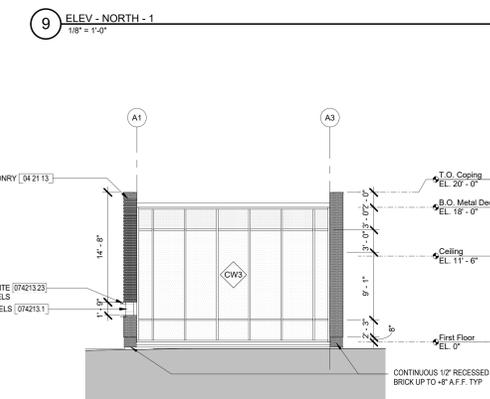
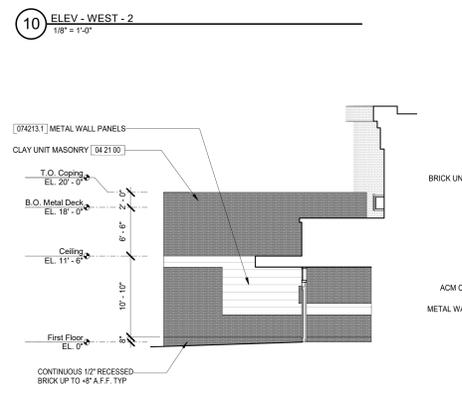
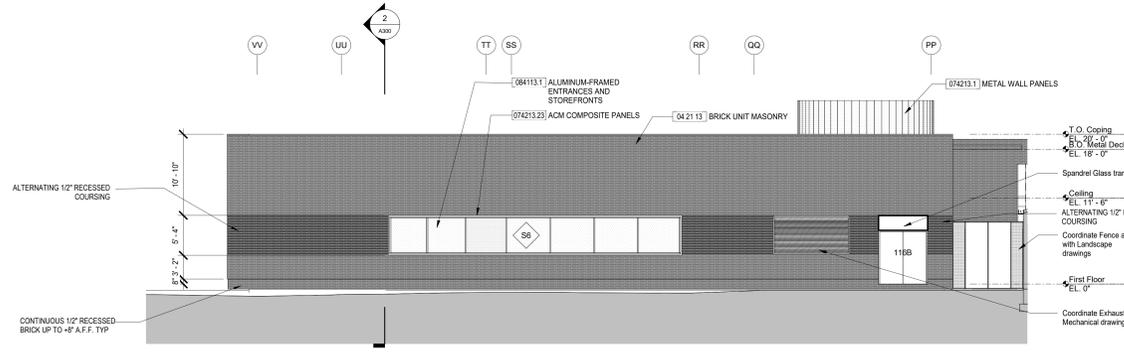
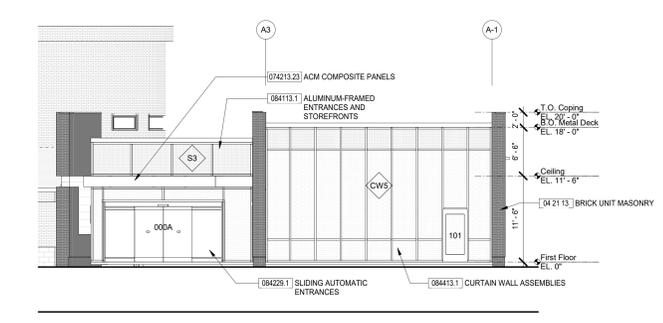
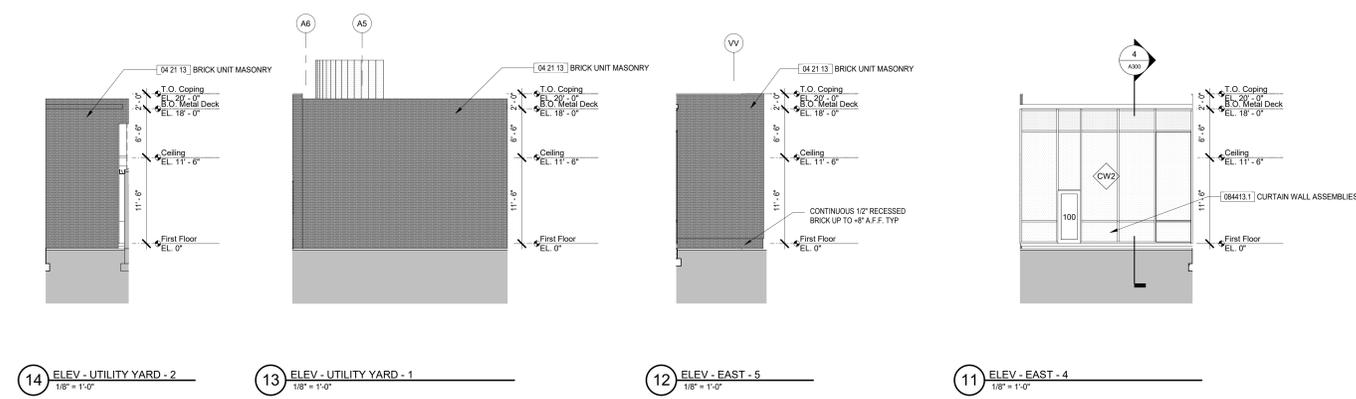
3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

E/W Exterior
Elevations

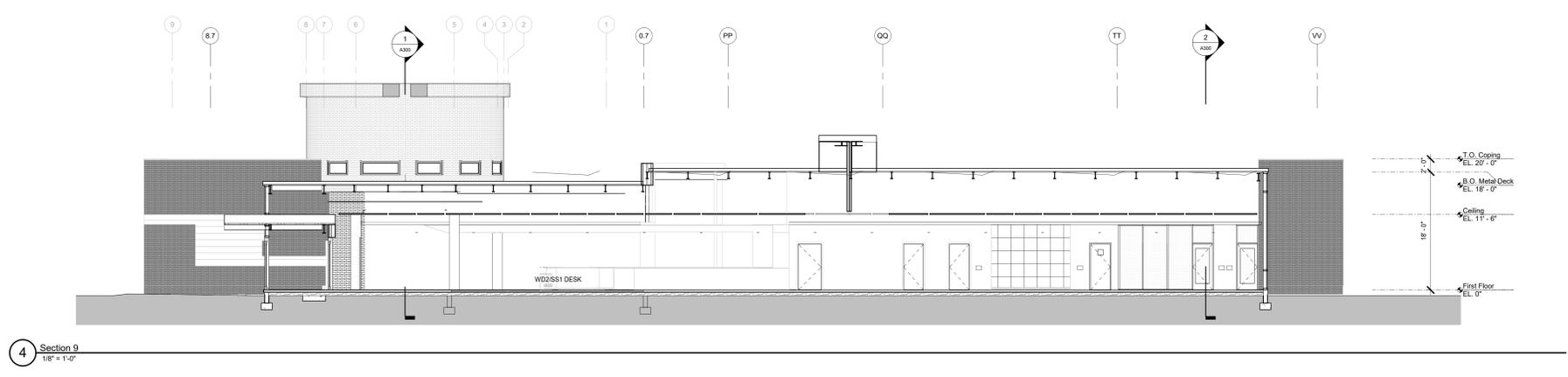
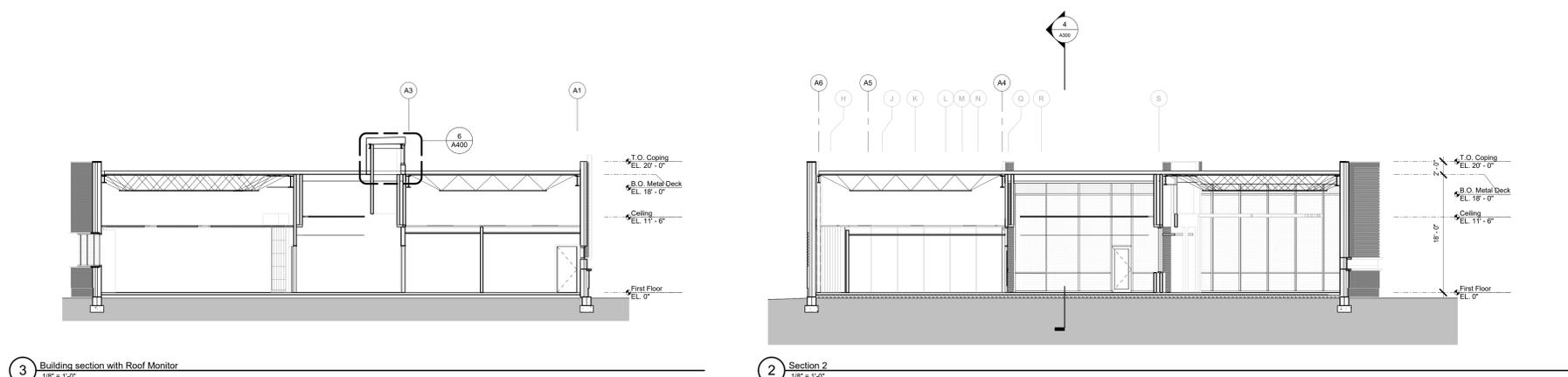
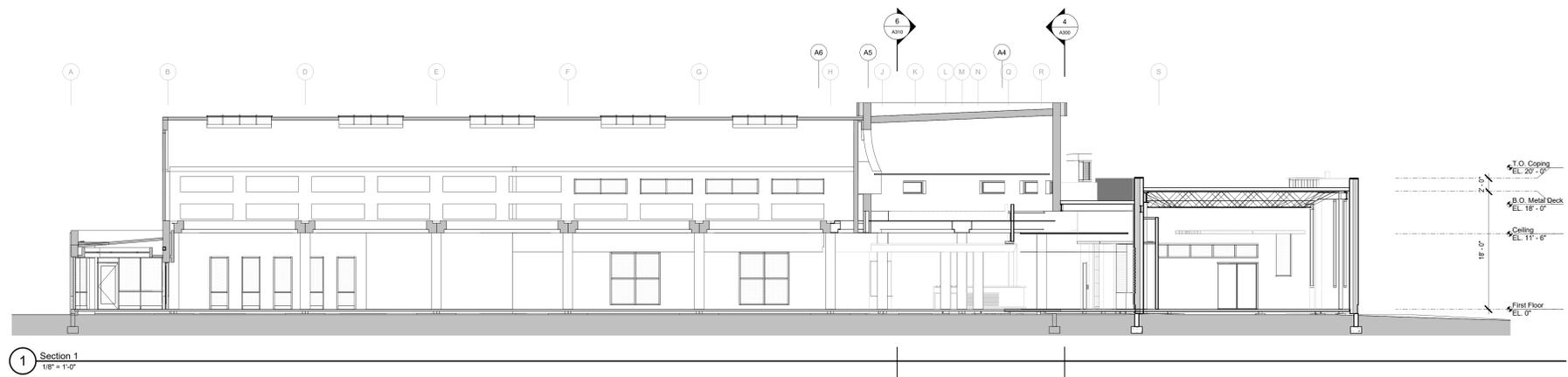
A201
Issue Date

22160



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Consultants:

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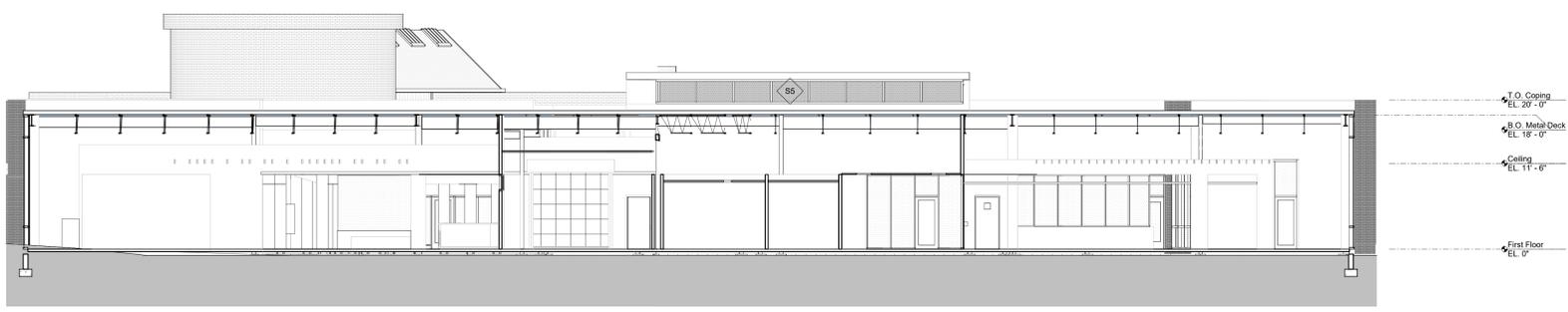
Lighting Design
Zinkon Creative Studio
1222 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Schematic Design Submittal
9/1/2023
Design Development Submittal
10/11/2023

Revision Schedule

#	Description	Date
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T.O. Coping
EL. 20'-0"

B.O. Metal Deck
EL. 18'-0"

Ceiling
EL. 11'-6"

First Floor
EL. 0"

1 Section 29
1/8" = 1'-0"

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CML Barnett
Branch
Addition/Renovation

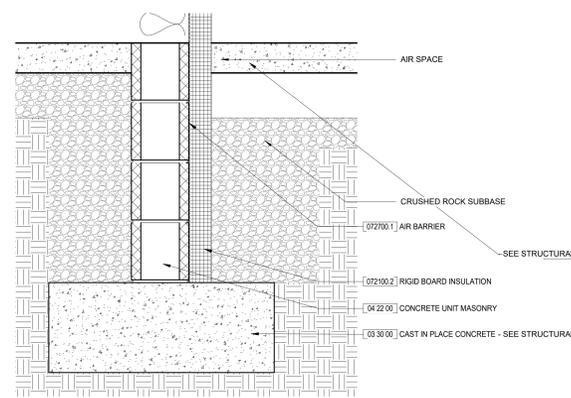
3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

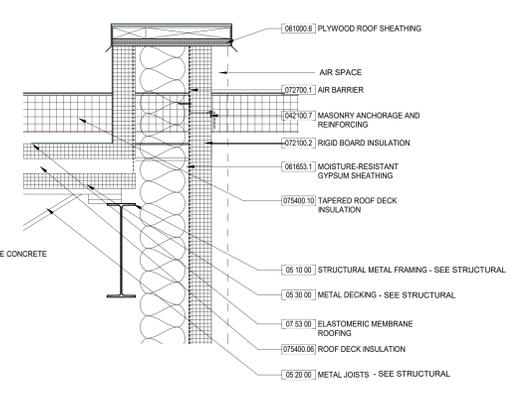
Building Sections

A301
Issue Date

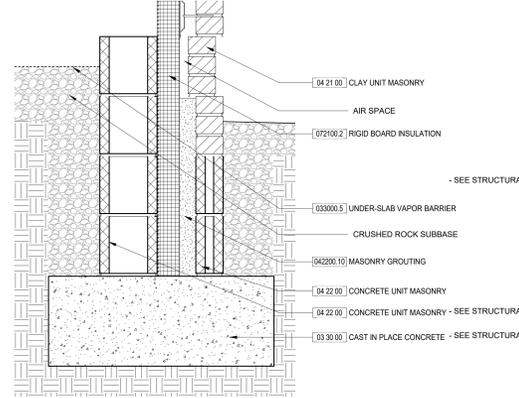
22160



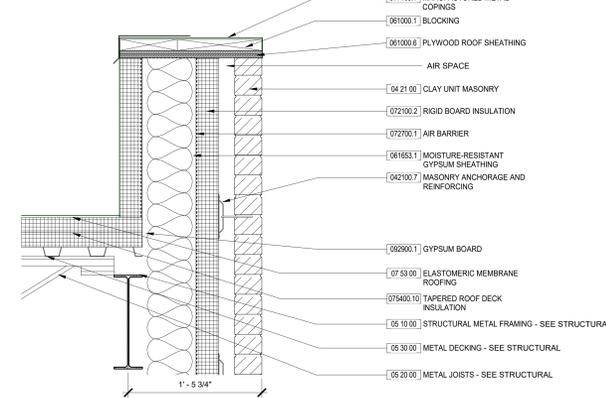
4 South Wall Section 4 - Detail 2
1/12" = 1'-0"



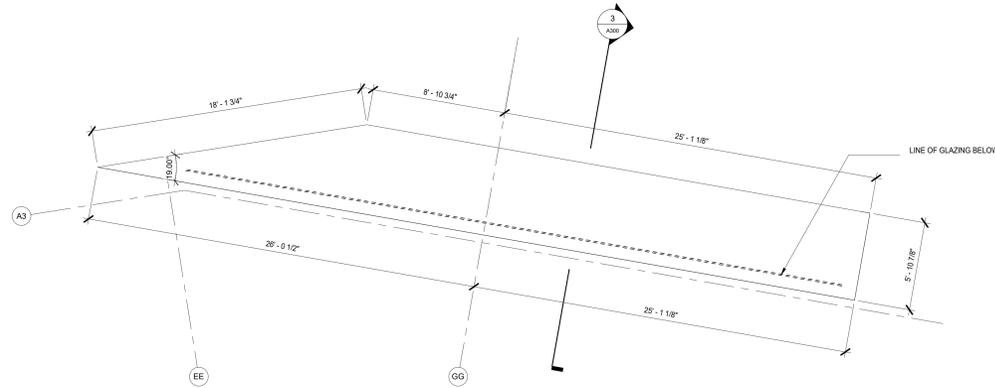
3 South Wall Section 4 - Detail 1
1/12" = 1'-0"



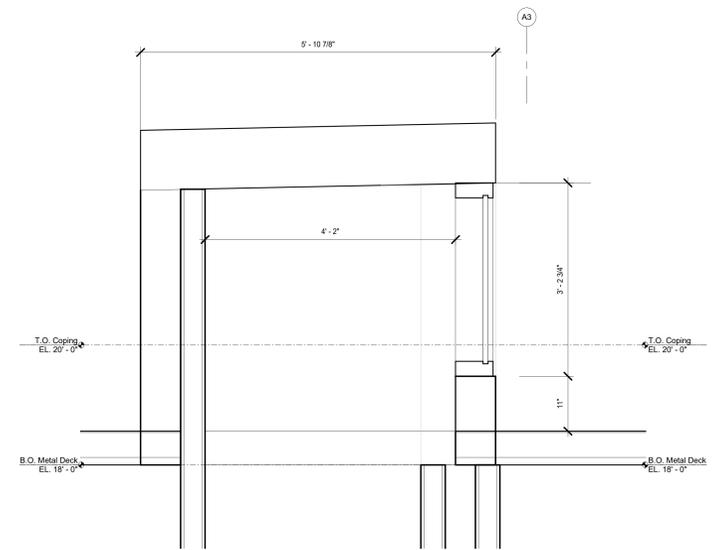
2 South Wall Section 2 - Detail 2
1/12" = 1'-0"



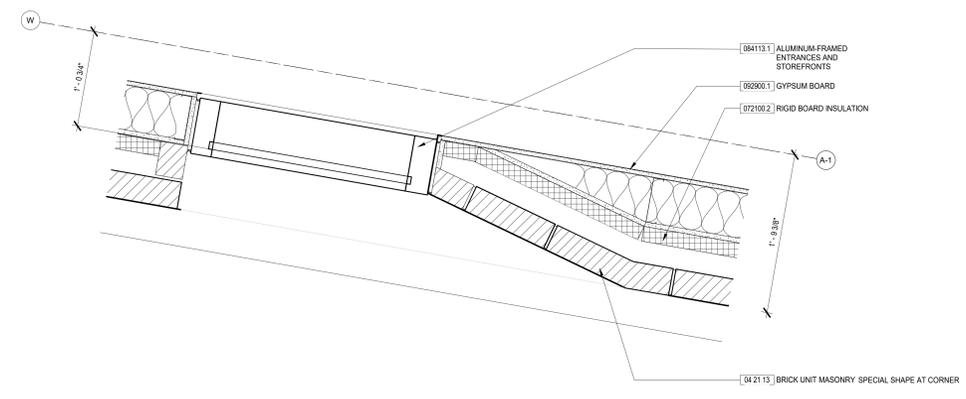
1 South Wall Section 2 - Detail 1
1/12" = 1'-0"



5 Roof Monitor
1/4" = 1'-0"



6 Roof Monitor Section
1" = 1'-0"



7 Plan Detail - Typical Punched Opening
1/12" = 1'-0"

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Lighting Design
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Drawing Issue Dates

Schematic Design Submittal
9/1/2023

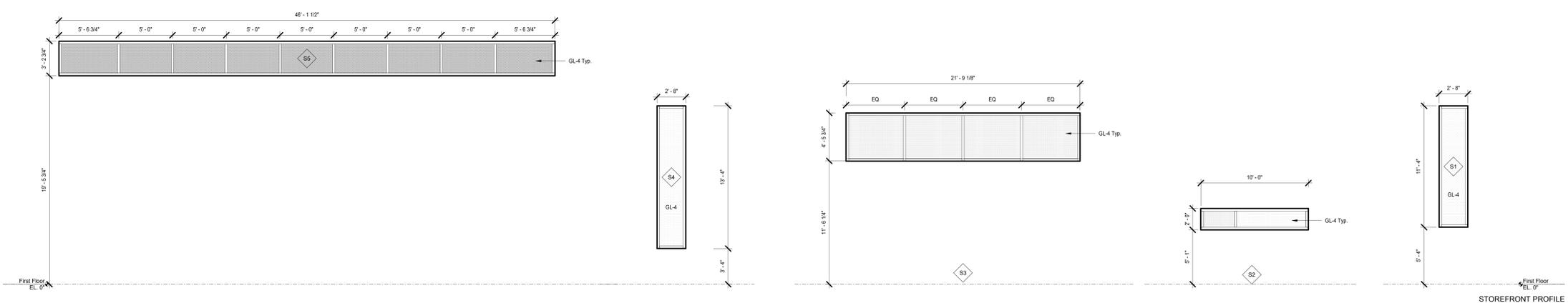
Design Development Submittal
10/11/2023

Revision Schedule

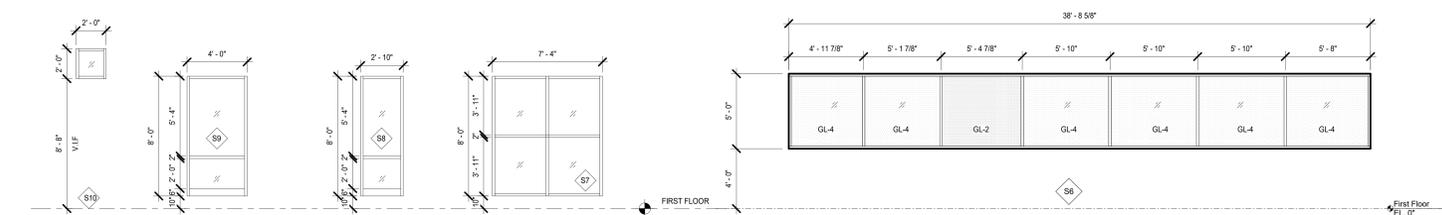
#	Description	Date
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GLAZING LEGEND

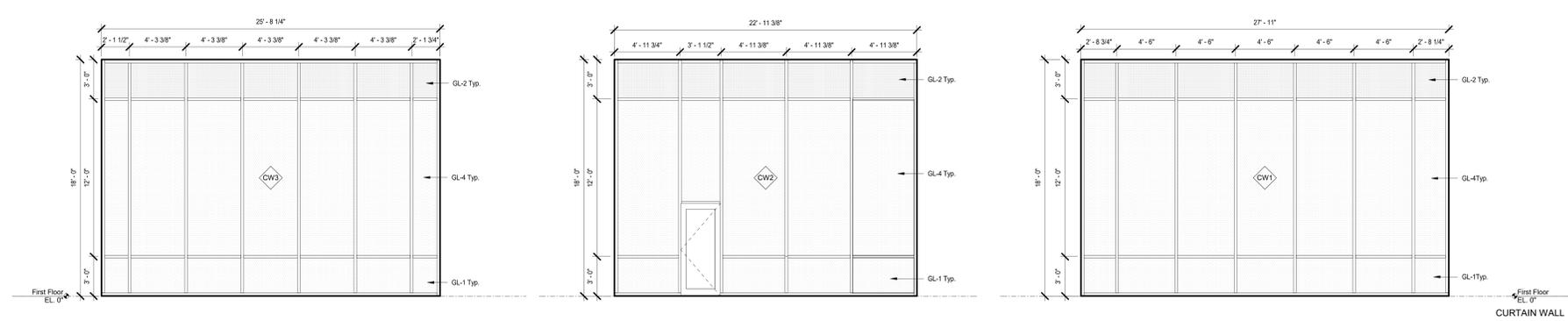
- GL-1 1" insulated tempered glazing
- GL-2 1" Spandrel glazing
- GL-3 1" insulated glazing with frit
- GL-4 1" insulated non-tempered glazing
- GL-5 1/4" tempered glazing
- GL-6 1/4" clear glazing



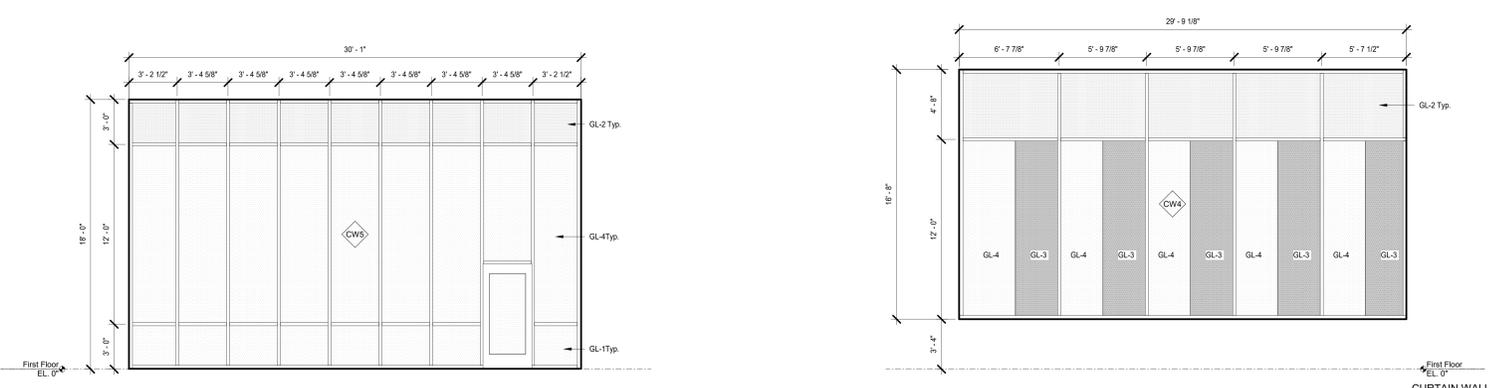
STOREFRONT PROFILE



STOREFRONT PROFILE



CURTAIN WALL



CURTAIN WALL

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**CML Barnett
Branch
Addition/Renovation**

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Window Legend
and Details

Architectural
A600

Issue Date

22160

Consultants:

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Advanced Engineering Consultants
1303 Dublin Rd. Columbus OH 43215

Lighting Design
Zirkon Creative Studio
1222 Hill Rd. Suite 121, Pickerington OH 43147

Drawing Issue Dates

Schematic Design Submittal
9/1/2023

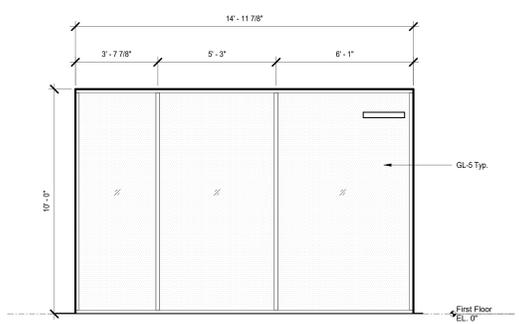
Design Development Submittal
10/11/2023

Revision Schedule

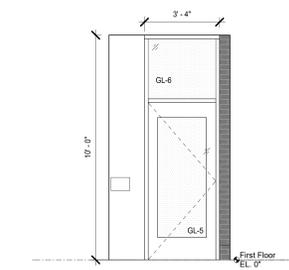
#	Description	Date
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GLAZING LEGEND

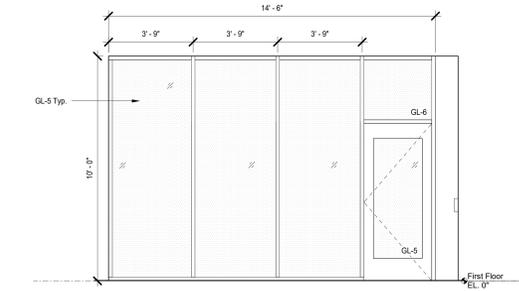
- GL-1: 1" Insulated tempered glazing
- GL-2: 1" Spandrel glazing
- GL-3: 1" Insulated glazing with frit
- GL-4: 1" Insulated non-tempered glazing
- GL-5: 1/4" tempered glazing
- GL-6: 1/4" clear glazing



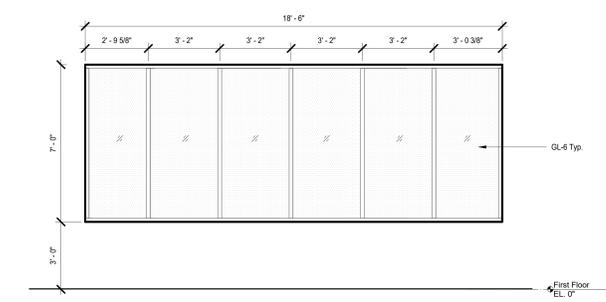
3 ELEVATION-TEEN - WEST GLAZING
3/8" = 1'-0"



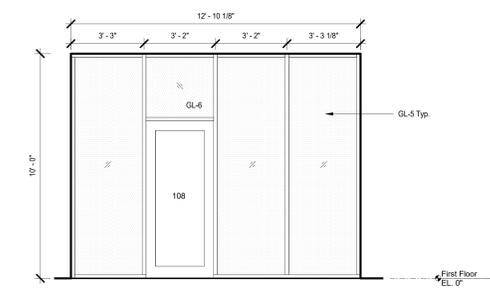
2 Interior Storefront 2 - Small Meeting 110
3/8" = 1'-0"



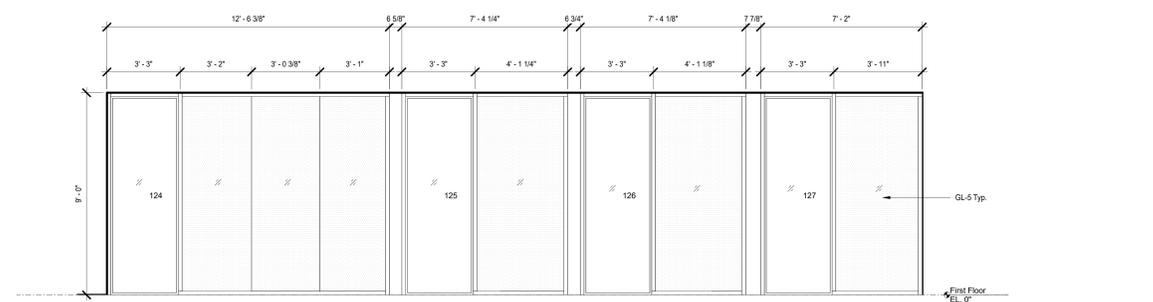
1 Interior Storefront 1 - Small Meeting 111
3/8" = 1'-0"



5 ELEVATION -Teen area glazing 2
3/8" = 1'-0"



4 ELEVATION -Teen area glazing 1
3/8" = 1'-0"



6 Study Rooms
3/8" = 1'-0"

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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

Interior Storefront
and Demountables

Architectural

A601

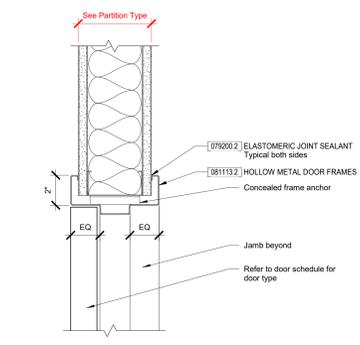
Issue Date

22160

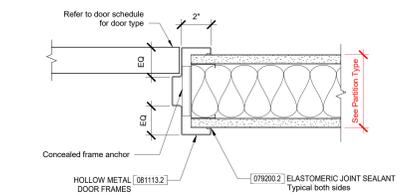
DOOR MARK	TYPE	SIZE			DOOR			FRAME			DETAIL			HARDWARE		REMARKS		
		W	H	THK	STATUS	MATERIAL	FINISH	GLAZING TYPE	TYPE	STATUS	MATERIAL	FINISH	HEAD	JAMB	SILL		SET NO	ELECTRICAL
000A	ST	18'-0"	8'-0"	0"	NEW													all glass sliding door
000B	ST	18'-0"	8'-0"	0"	NEW													all glass existing door
100	AL1	3'-0"	7'-0 1/2"	1 3/4"	NEW													
101	AL1	3'-3 1/8"	7'-0 1/2"	1 3/4"	NEW													
102A	DW4	10'-0"	10'-0"	5/8"	NEW													
102B	HM1	3'-0"	7'-0"	1 3/4"	NEW													
102C	AL2	3'-0"	7'-0"	1 3/4"	NEW													
102D	AL2	3'-0"	7'-0"	1 3/4"	NEW													
103	HM1	3'-0"	7'-0"	1 3/4"	NEW													
104	HM1	3'-0"	7'-0"	1 3/4"	NEW													
105	HM1	3'-0"	7'-0"	1 3/4"	NEW													
106	HM1	3'-0"	7'-0"	1 3/4"	NEW													
107	HM1	3'-0"	7'-0"	1 3/4"	NEW													
108	AL1	3'-0"	7'-0"	1 3/4"	NEW													
108B	HM1	3'-0"	7'-0"	1 3/4"	NEW													
109	AL1	3'-0"	7'-0"	1 3/4"	NEW													
110	AL1	3'-0"	7'-0"	1 3/4"	NEW													
111	AL1	3'-0"	7'-0"	1 3/4"	NEW													
112A	HM1	3'-0"	7'-0"	1 3/4"	NEW													
112B	CD1	12'-0"	10'-0"	5/8"	NEW													
112C	DW7	3'-0"	7'-0"	1 3/4"	NEW													
113	DW2B	3'-0"	7'-0"	1 3/4"	NEW													
114A	HM1	3'-0"	7'-0"	1 3/4"	NEW													
114B	HM1	3'-0"	7'-0"	1 3/4"	NEW													
115	HM2	3'-0"	7'-0"	1 3/4"	NEW													
116A	HM2	3'-0"	7'-0"	1 3/4"	NEW													
116B	DW44	6'-0"	7'-0"	1 3/4"	NEW													
114	AL2	3'-0"	8'-10"	1 3/4"	NEW													
125	AL2	3'-0"	8'-10"	1 3/4"	NEW													
126	AL2	3'-0"	8'-10"	1 3/4"	NEW													
127	AL2	3'-0"	8'-10"	1 3/4"	NEW													
128																		
131	EW1	3'-0"	7'-0"	1 3/4"	EXISTING													Reuse salvaged door
136A	HM1	3'-0"	7'-0"	1 3/4"	NEW													
136C	HM4	1'-0"	7'-0"	1 3/4"	NEW													
139	HM1	3'-0"	7'-0"	1 3/4"	NEW													

DOOR NOTES

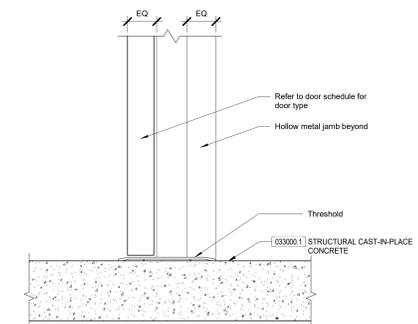
- A. NUMBER:
The door number matches the room number. When more than one door exists per room, the first door is followed with "A", the second door "B", etc.
- B. All doors are to have a 3/4" undercut U.N.O.
- C. STATUS:
N - New
E - Existing
- D. MATERIAL:
AL - Aluminum
HM - Hollow Metal
WD - Wood
- E. FINISH:
CA - Clear Anodized
FF - Factory Finish
PT - Paint - Shop Prime Only
TR - Transparent Finish
- F. GLAZING:
GL-1 =
GL-2 =
- G. FIRE RATING:
Rating of door in minutes.
- H. HARDWARE SET:
See specifications for description of hardware sets.
- J. ELECTRICAL:
Electrical contractor to provide power to door hardware power supply.
- K. REMARKS:
2.



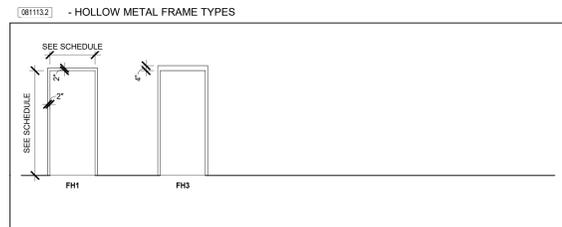
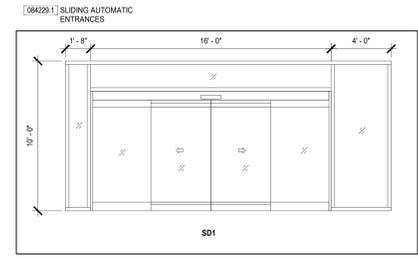
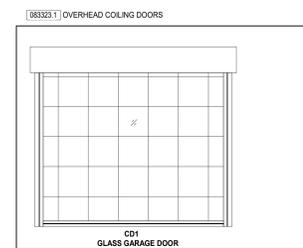
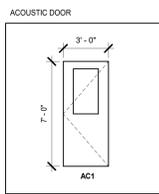
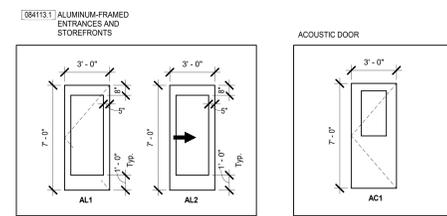
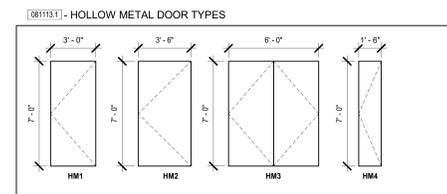
1 Hollow Metal Door and Frame - Head Detail
3' = 1'-0"

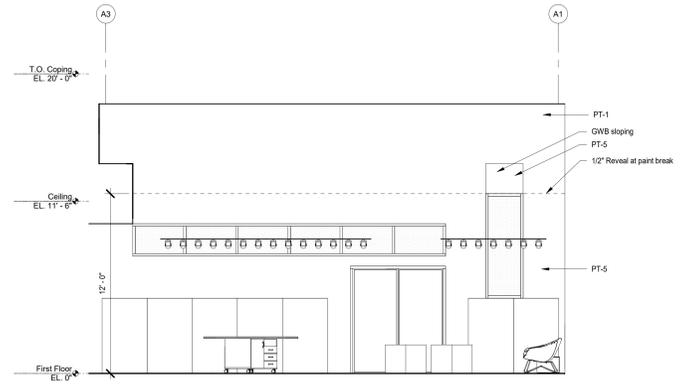


2 Hollow Metal Door and Frame - Jamb Detail
3' = 1'-0"

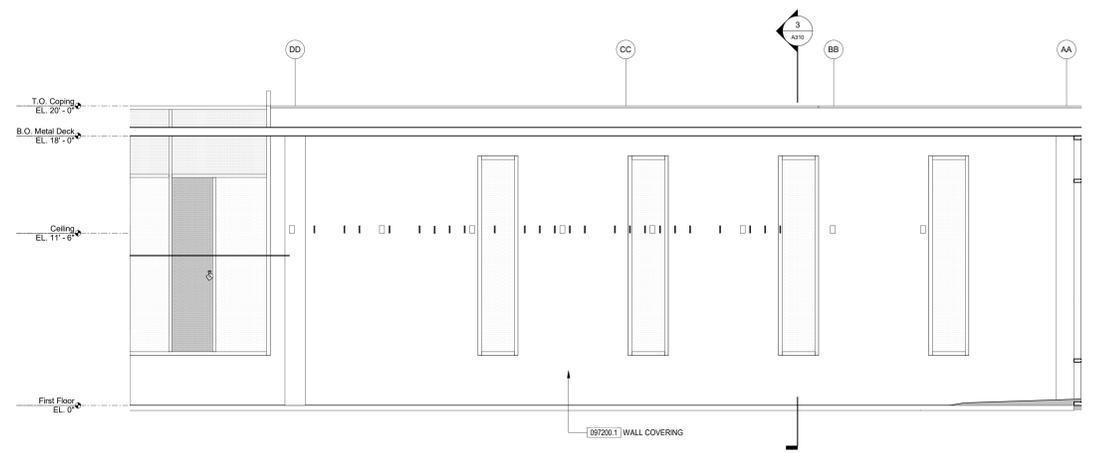


3 Hollow Metal Door and Frame - Sill Detail
3' = 1'-0"

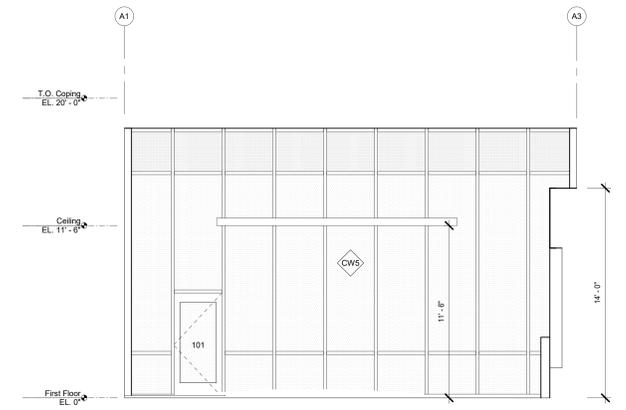




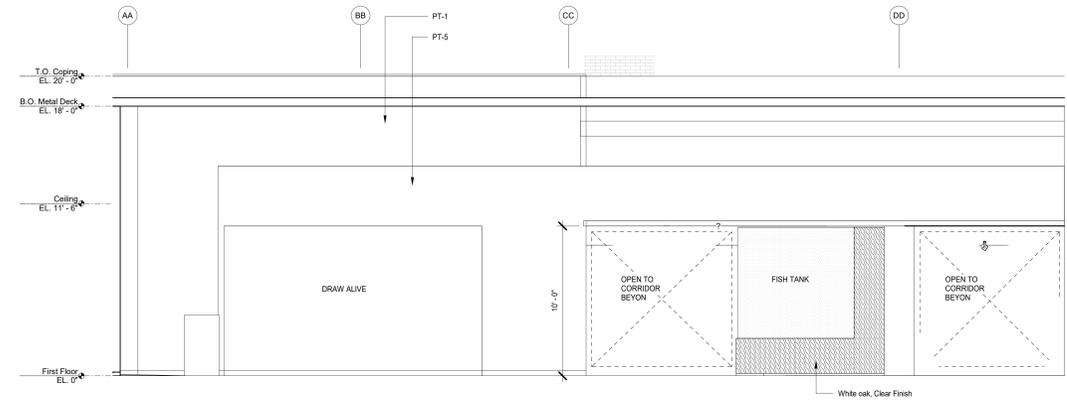
7 ELEVATION - CHILDRENS - EAST
1/4" = 1'-0"



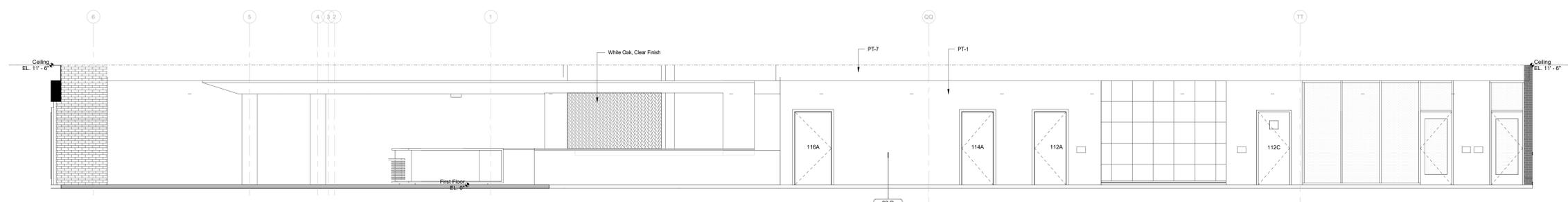
6 ELEVATION - CHILDRENS - SOUTH
1/4" = 1'-0"



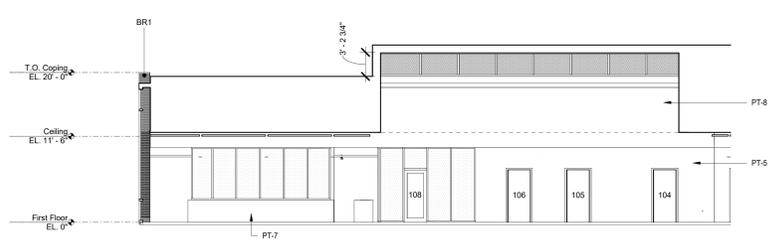
4 ELEVATION - CHILDRENS - WEST
1/4" = 1'-0"



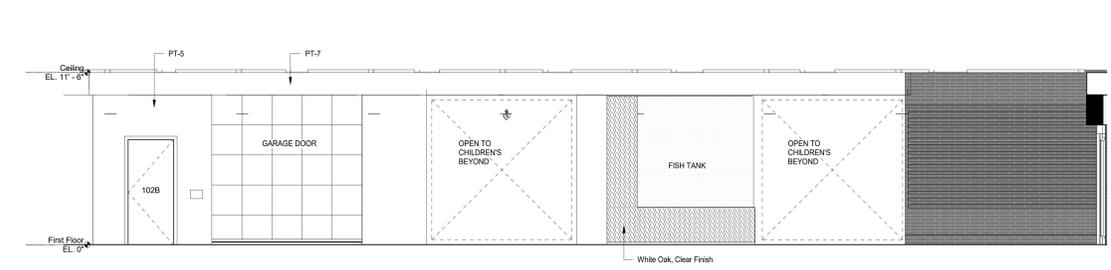
5 ELEVATION - CHILDRENS - NORTH
1/4" = 1'-0"



3 ELEVATION - INTERIOR - NORTH
1/4" = 1'-0"



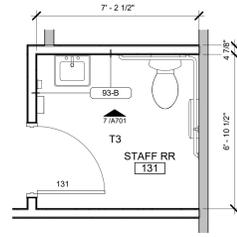
2 ELEVATION - INTERIOR - SOUTH 1
1/8" = 1'-0"



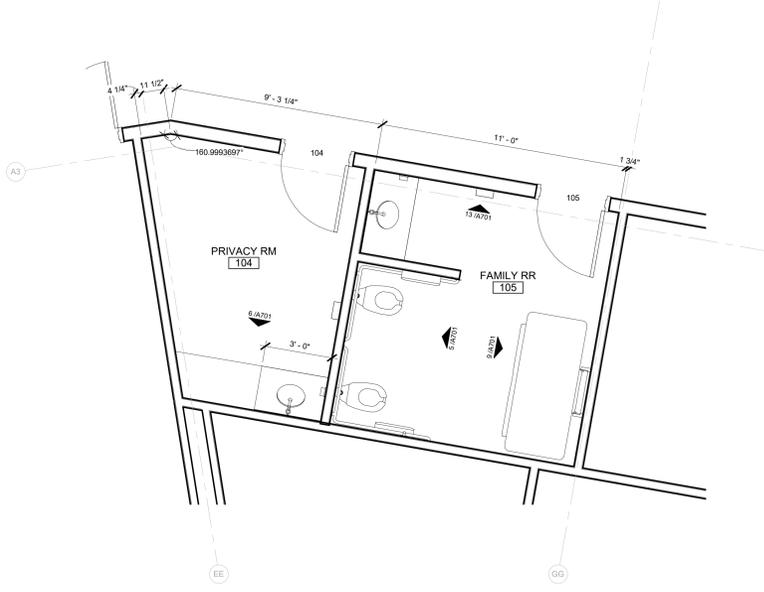
1 ELEVATION - INTERIOR - SOUTH 2
1/4" = 1'-0"

Keynote Legend

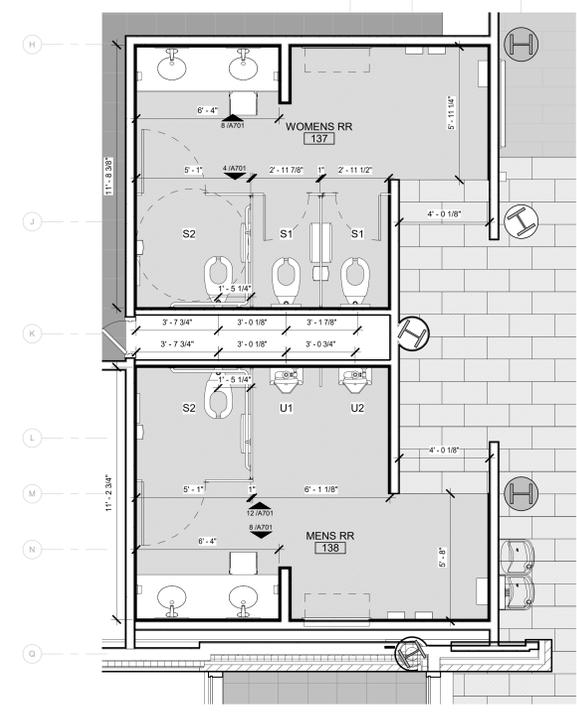
090013.1	CERAMIC TILING
102113.1	TOILET COMPARTMENTS
102813.01	PAPER TOWEL DISPENSER
102813.03	FRAMED MIRROR
102813.04	SOAP DISPENSER
102813.05	TOILET TISSUE DISPENSER
102813.06	CHANGING TABLE
102813.06.2	ADJUSTABLE HEIGHT CHANGING TABLE
102813.07.6	18" VERTICAL GRAB BAR
102813.07.8	42" X 54" L-SHAPED GRAB BAR
102813.14	SANITARY NAPKIN VENDOR
102813.21	WARM-AIR DRYER



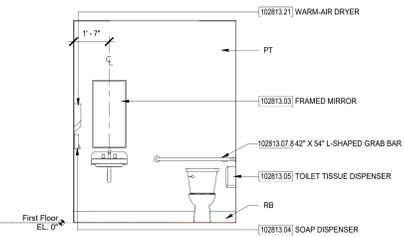
3 Enlarged plan staff Restroom
3/8" = 1'-0"



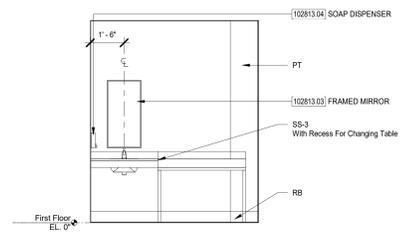
2 Enlarged Privacy Room and Family Room Plan
3/8" = 1'-0"



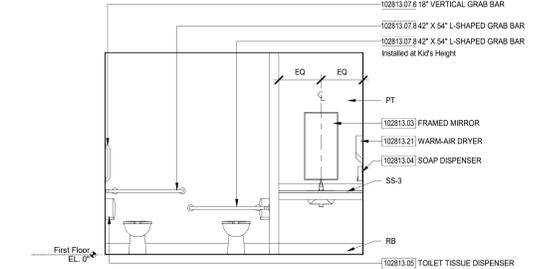
1 Enlarged Restroom Plan
3/8" = 1'-0"



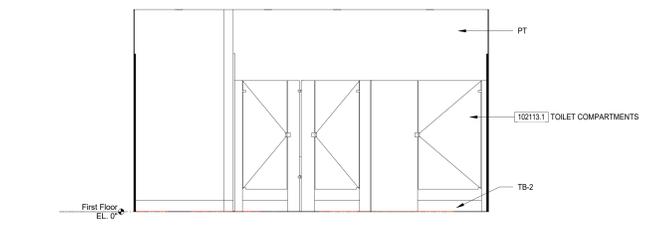
7 Staff Restroom
3/8" = 1'-0"



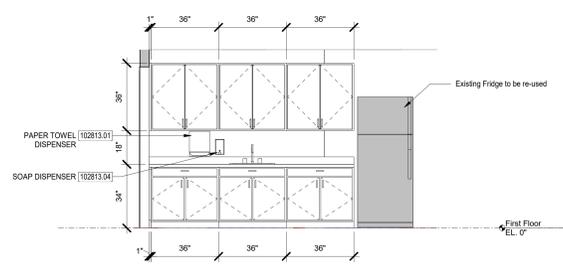
6 Privacy Room
3/8" = 1'-0"



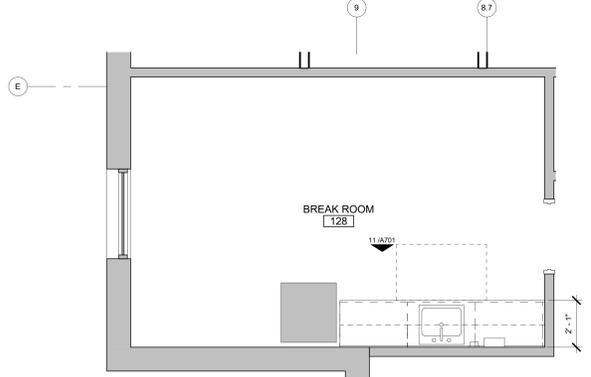
5 Family Restroom Elevation 1
3/8" = 1'-0"



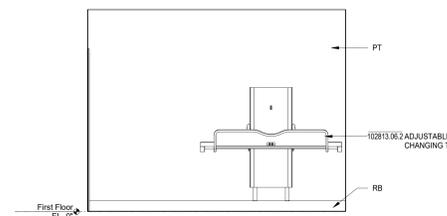
4 Women's Restroom Elevation 1
3/8" = 1'-0"



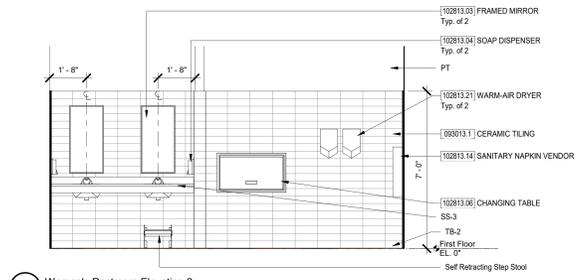
11 Break Room Kitchen Elevation
3/8" = 1'-0"



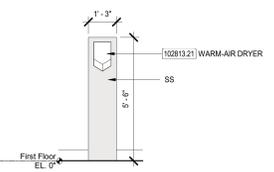
10 Enlarged Plan - Breakroom
3/8" = 1'-0"



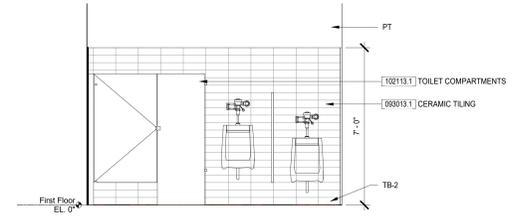
9 Family Restroom Elevation 2
3/8" = 1'-0"



8 Women's Restroom Elevation 2
3/8" = 1'-0"



13 Typical Single Warm hand Dryer Elevation
3/8" = 1'-0"



12 Men's Restroom Elevation 2
3/8" = 1'-0"

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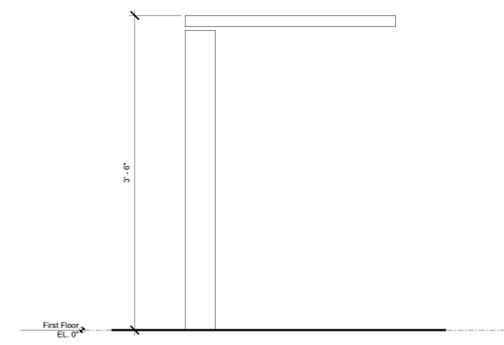
Drawing Issue Dates

Schematic Design Submittal
9/1/2023

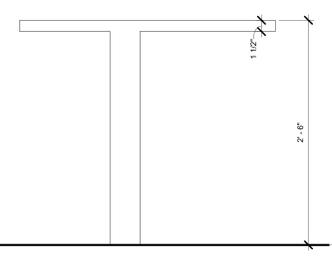
Design Development Submittal
10/11/2023

Revision Schedule

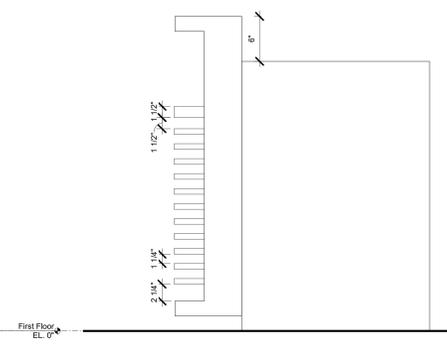
#	Description	Date
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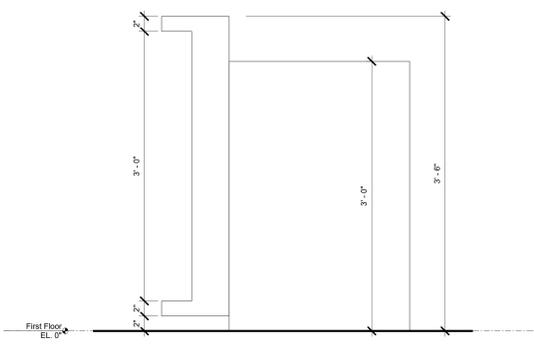
16 Section Detail 5 - Reception Desk
1 1/2" = 1'-0"



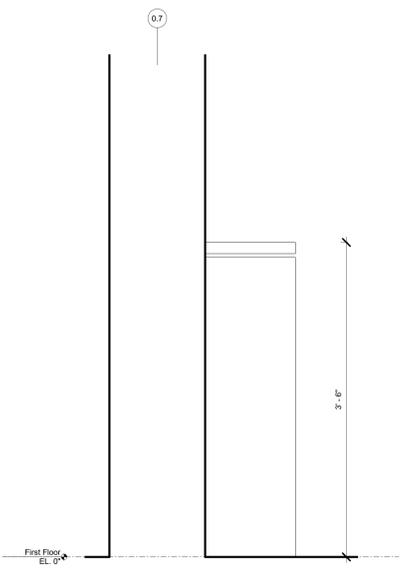
12 Section Detail 1 - Reception Desk
1 1/2" = 1'-0"



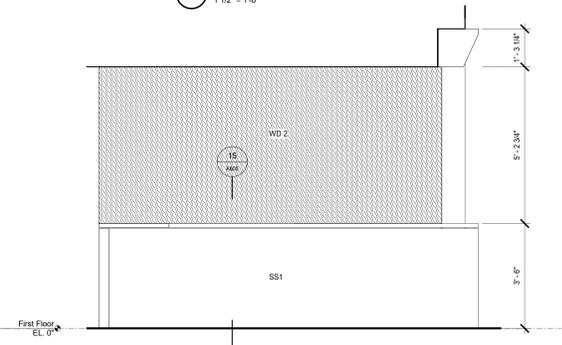
13 Section Detail 2 - Reception Desk
1 1/2" = 1'-0"



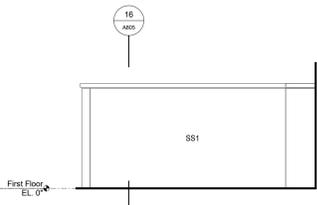
14 Section Detail 3 - Reception Desk
1 1/2" = 1'-0"



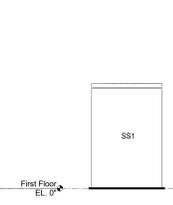
15 Section Detail 4 - Reception Desk
1 1/2" = 1'-0"



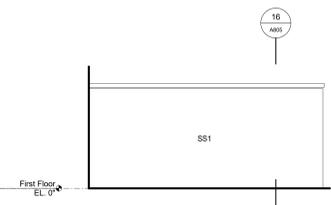
8 Enlarged Elevation 7 - Reception Desk
1/2" = 1'-0"



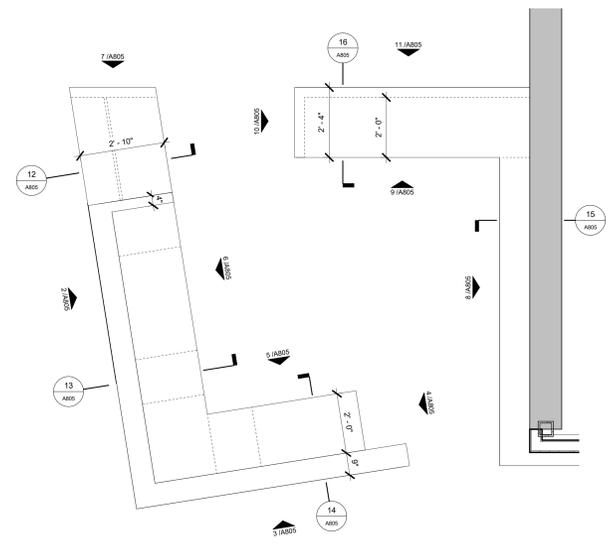
9 Enlarged Elevation 8 - Reception Desk
1/2" = 1'-0"



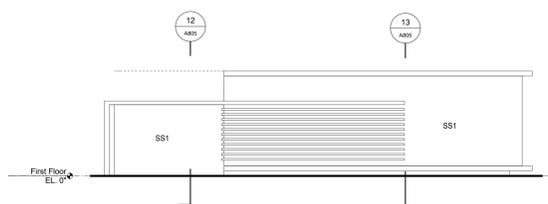
10 Enlarged Elevation 9 - Reception Desk
1/2" = 1'-0"



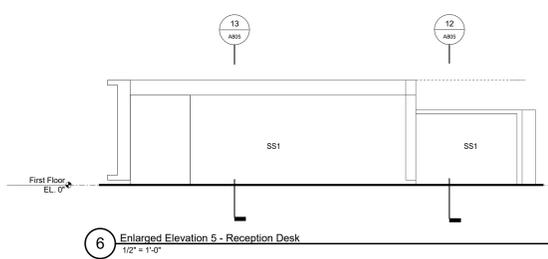
11 Enlarged Elevation 10 - Reception Desk
1/2" = 1'-0"



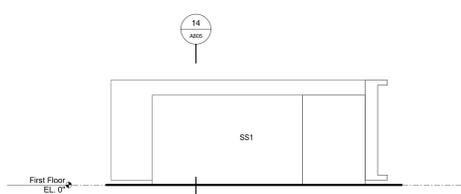
1 Enlarged Plan - Reception Desk
1/2" = 1'-0"



2 Enlarged Elevation 1 - Reception Desk
1/2" = 1'-0"



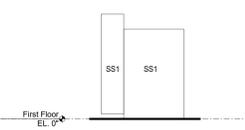
6 Enlarged Elevation 5 - Reception Desk
1/2" = 1'-0"



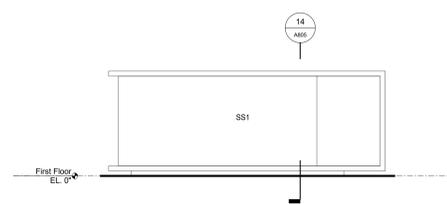
5 Enlarged Elevation 4 - Reception Desk
1/2" = 1'-0"



7 Enlarged Elevation 6 - Reception Desk
1/2" = 1'-0"



4 Enlarged Elevation 3 - Reception Desk
1/2" = 1'-0"



3 Enlarged Elevation 2 - Reception Desk
1/2" = 1'-0"

Autodesk Docs/Barnett Metropolitan Library/Z2160_Barnett_11X_CML_v0222.rvt

10/11/2023 3:09:40 PM

CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

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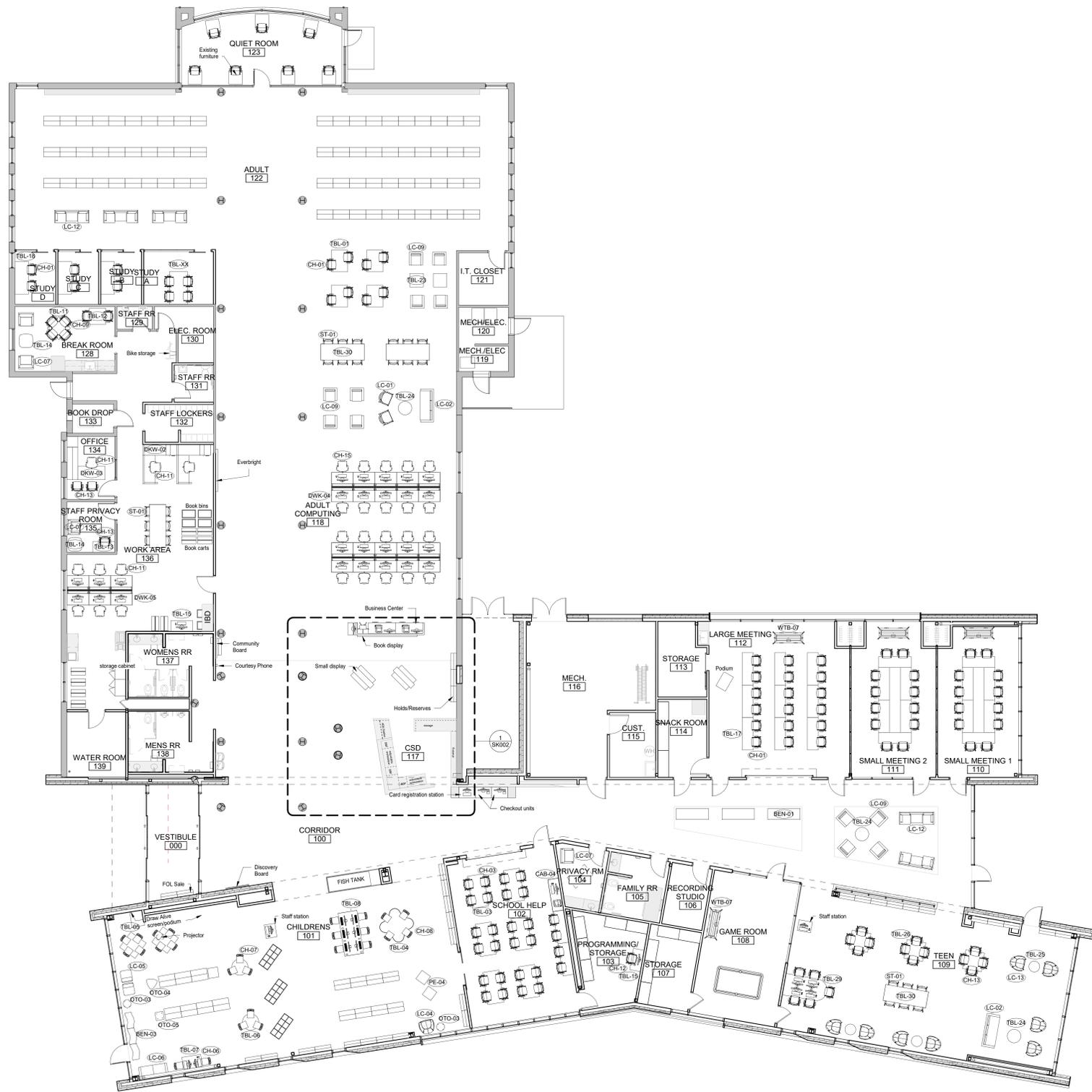
Customer Service
Desk

Architectural
A805

Issue Date

22160

Autodesk Docs/Barnett Metropolitan Library/22160_Barnett_11X_CML_10222.rvt



1 Furniture Plan
1/8" = 1'-0"

Furniture Schedule		
TAG NO.	Type Comments	QUANTITY
BEN-01	OFS Banda Bench	3
BEN-03	Coalesce ripple flat bench	3
CAB-04	SHC Staff Station	1
CH-01	Sit on 8 navy	67
CH-03	Sit on 8 baja	28
CH-05	Emeco navy chair	8
CH-06	Emeco navy chair	2
CH-07	Emeco mini navy chair	6
CH-08	Emeco navy chair	10
CH-09	Sit on 8 navy	6
CH-11	Sit on 8 amplify	9
CH-12	Sit on 8 focus mid-back	1
CH-13	Sit on 8 baja	20
CH-15	Sit on 8 movi light task armless	20
DKW-02	AIS Cubicles	2
DKW-03	AIS Manager desk	1
LC-01	Encore Filing 2170-U	2
LC-02	Anwyn	2
LC-04	Arcadia Oyster mid-back lounge chair 5851	1
LC-05	Arcadia Smallfoot's children's bench 7951	2
LC-06	JSI Anwyn Lounge	1
LC-07	EKO G1 Lounge	4
LC-09	Encore Filing 2170-U	12
LC-12	TOOpatric lounge booth 8520-H	5
LC-13	Arcadia Oyster Chair 5861	8
OTO-03	ERG MA round ottoman	2
OTO-04	ERG MA triangle ottoman	1
OTO-05	ERG MA square ottoman	1
PE-04	Momentum Interactive small cube diplo blocks	2
ST-01	Level 4 Design Nam Barstool	24
TBL-02	Egon Taskward 4636	1
TBL-01	Enwork Zori - Leg power cut out	4
TBL-03	Enwork Zori Fliptop	6
TBL-04	Meditech worktop island table	1
TBL-05	Enwork Zori	2
TBL-06	Emeco 20-06 custom table	2
TBL-07	Enwork Zori - Leg power cut out	1
TBL-08	Enwork Landing	1
TBL-10	Enwork Zori - Leg power cut out	2
TBL-11	Enwork Zori	1
TBL-12	Enwork Zori	1
TBL-13	Enwork Zori - Leg power cut out	1
TBL-14	Nevis Oscar X-base soft square table	2
TBL-15	Enwork Solario	2
TBL-17	Enwork Zori Fliptop	21
TBL-18	Leg power cut out	3
TBL-23	Nevis Abbot solid surface cube table	2
TBL-24	Nevis Oscar round table	3
TBL-25	Nevis Abbot solid surface cylinder table	3
TBL-26	Enwork Zori	3
TBL-29	Enwork Landing custom	1
TBL-30	Spec Furniture end zone table	4
TBL-XX	Enwork	1
WTB-02	Clarus float magnetic glassboard 48"x36"	1
WTB-07	Enwork Zori mobile monitor stand on casters	4

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MEP Engineer
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Lighting Design

Zinkon Creative Studio
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Drawing Issue Dates

Schematic Design Submittal
9/1/2023

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Revision Schedule

#	Description	Date
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CML Barnett
Branch
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3434 E Livingston Ave.
Columbus, OH 43227

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Furniture Plan

A1001

Issue Date

22/160

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
AUTO	AUTOMATIC
AVG	AVERAGE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DEPT	DEPARTMENT
DN	DIAMETER
DN	DOWN
DWG	DRAWING
EL	ELEVATION
EQUIP	EQUIPMENT
EXP	EXPANSION
EXIST	EXISTING
F	FIRE PROTECTION WATER SUPPLY
°F	DEGREES FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FIN FL EL	FINISHED FLOOR ELEVATION
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE

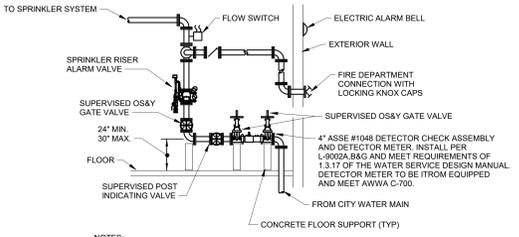
ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IN	INCHES
KW	KILOWATT
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RPM	REVOLUTIONS PER MINUTE
SEC	SECOND
SPEC	SPECIFICATION
STSL	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
TE	TOP ELEVATION
TOP	TOP OF PIPE
TS	TAMPER SWITCH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WATER
WG	WATER GAUGE
WT	WEIGHT
WVP	SUPERVISED WALL POST INDICATOR VALVE

SYMBOLS LIST	
PIPING	
EXISTING TO REMAIN	(E)
EXISTING TO BE DEMOLISHED	(D)
EXISTING ABANDONED	(A)
FIRE PROTECTION	F
FIRE PROTECTION AREA	---
PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)	
DROP	○
RISE	○
TEE	—
CAP	⌋
FLOW ARROW	→
GLOBE VALVE	⊕
SOLENOID VALVE	⊕
SUPERVISED VALVE	⊕
PRESSURE REDUCING VALVE	⊕
OUTSIDE STEM & YOKE VALVE	⊕
DOUBLE DETECTOR CHECK ASSEMBLY	⊕
BUTTERFLY VALVE	⌋
BALL VALVE	⊕
CHECK VALVE	⊕
STRAINER	⊕
UNION	⊕
PIPE SLEEVE	⊕
FLOW SWITCH	⊕
FIRE DEPARTMENT CONNECTION	⊕
PRESSURE GAUGE WITH STOPCOCK	⊕

- GENERAL FIRE PROTECTION NOTES:**
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.
 - DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.
 - ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION; THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
 - ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.
 - A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (.PDF) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.
 - THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR THE SPRINKLER SYSTEMS SHOWING ALL SPRINKLER LOCATIONS, SPACED AND LOCATED IN ACCORDANCE WITH NFPA 13. THE SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO STARTING THE INSTALLATION.
 - ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.
 - ALL OPENINGS OR DAMAGE TO EXISTING WALLS, CEILING, FLOORS AND STRUCTURAL MEMBERS FROM PENETRATIONS, REMOVALS, INSTALLATIONS OR OTHER ACTIONS OF THE CONTRACTOR SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS BY THE CONTRACTOR TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT. REPAIRS ARE AT THE CONTRACTOR'S EXPENSE.
 - DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILING SHALL NOT BE UTILIZED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.
 - NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.
 - ALL ELEVATIONS ABOVE FINISHED FLOOR (AFF) INDICATED FOR STRUCTURAL MEMBERS AND CEILING ARE APPROXIMATE. VARIANCES OF +/- 1" CAN BE EXPECTED DUE TO SLAB FLOORS AND STRUCTURAL MEMBERS.
 - THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.
 - WATER SUPPLIES SHALL BE CALCULATED BY USING THE LATEST WATER FLOW INFORMATION AND ALLOWING FOR A 10% REDUCTION OF THE STATED PRESSURES OR 5 P.S.I., WHICHEVER IS GREATER, AS AN ALLOWANCE FOR SEASONAL VARIATIONS IN WATER SUPPLY.
 - EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH NFPA 13 EXCEPT AS MODIFIED HEREIN. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION. AUTOMATIC SPRINKLERS SHALL BE PERPENDICULAR TO CEILING. THE AUTOMATIC SPRINKLER COVER PLATES SHALL NOT BE FIELD PAINTED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES. SPRINKLERS INSTALLED IN PROXIMITY TO OBSTRUCTIONS SHALL BE LOCATED TO MINIMIZE OBSTRUCTION TO DISCHARGE IN ACCORDANCE WITH NFPA 13.
 - NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.
 - CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS AND SAMPLES OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AND SHALL INCLUDE ALL ITEMS REQUIRED BY NFPA 13.
 - ONLY LISTED AND APPROVED DEVICES AND MATERIALS AS SPECIFIED IN NFPA 13 SHALL BE INSTALLED THROUGHOUT THE SYSTEM. EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE LISTED AS A PRODUCT BY THE MANUFACTURER UNDER THE APPROPRIATE CATEGORY FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES INC. (UL) OR FACTORY MUTUAL (FM) AND SHALL BEAR THE "UL" OR "FM" LABEL AS APPROPRIATE.
 - THE COMPONENTS OF HANGER ASSEMBLIES THAT DIRECTLY ATTACH TO THE PIPE OR TO THE BUILDING SHALL BE LISTED IN ACCORDANCE WITH NFPA 13.
 - SPRINKLER SYSTEM PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STATIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.
 - ONLY LISTED AND APPROVED NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.
 - ENSURE SPRINKLER TEMPERATURE RATINGS ARE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR PROXIMITY TO HEAT GENERATING DEVICES.
 - CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE ADEQUATE DRAINAGE OF ALL PIPING IN ACCORDANCE WITH NFPA 13. ALL DRAINS DISCHARGE SHALL BE PIPED TO DESIGNATED AREAS. LOCATION OF ALL OUTSIDE DISCHARGE POINTS SHALL BE COORDINATED WITH THE OWNER.
 - THE CONTRACTOR SHALL PROVIDE LOW POINT DRAINS AS REQUIRED BY NFPA 13. ALL LOW POINTS SHALL BE MARKED WITH SIGNAGE INDICATING "AUXILIARY DRAIN."
 - PROVIDE DRAINS AND INSPECTOR'S TEST DISCHARGE TO DESIGNATED LOCATIONS.
 - ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH DRAIN VALVE OR LOW POINT DRAINS PROVIDED.
 - UPON COMPLETION OF INSTALLATION, ALL PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 13 FOR TWO (2) HOURS AT A PRESSURE OF 200 PSI OR 50% ABOVE THE MAXIMUM WORKING PRESSURE OF THE SYSTEM FOR NEW SYSTEM, OR USING HYDROSTATIC TEST AT THE SYSTEM WORKING PRESSURE FOR THE EXISTING SYSTEM TO ADD NEW SPRINKLER SYSTEM. ALL TESTS SHALL BE WITNESSED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
 - REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS HYDROSTATIC TEST PROCEDURES AND RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY RESULTS ARE OBTAINED.
 - FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 25. REPORT FLUSHING AND HYDROSTATIC TEST RESULTS PROMPTLY AND IN WRITING TO THE OWNER. CONTRACTOR SHALL PROVIDE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE SPRINKLER SYSTEMS.
 - SPRINKLERS SHALL BE PROVIDED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO: ELECTRIC ROOMS AND CLOSETS, TELE DATA CLOSETS, AND ENTRY VESTIBLES. STAIRWELLS AT THE MAIN LANDING, UTILIZING UPRIGHT SPRINKLERS. BELOW DUCTS, GROUPS OF DUCTS OR OTHER OBSTRUCTIONS GREATER THAN 48" WIDE IN EXPOSED CONSTRUCTION AREAS, PER NFPA-13 REQUIREMENTS.
 - PIPING IN AREAS WITH FINISHED CEILING SHALL BE INSTALLED ABOVE FINISHED CEILING.
 - ALL SPRINKLER SYSTEM VALVES SHALL BE OF THE INDICATING TYPE AND PROVIDED WITH ELECTRICAL SUPERVISORY (TAMPER) SWITCHES INTERCONNECTED WITH THE BUILDING FIRE ALARM SYSTEM. THE FLOW SWITCH SHALL ALSO BE INTERCONNECTED WITH THE FIRE ALARM SYSTEM TO ALARM WHEN FLOW IN THAT ZONE OCCURS.
 - CONTRACTOR SHALL CONDUCT FIRE HYDRANT FLOW TESTS TO OBTAIN HYDRAULIC DATA NEEDED TO PREPARE DESIGN FOR HYDRAULICALLY CALCULATED SYSTEM.
 - CONTRACTOR SHALL PROVIDE HYDROSTATIC TEST, FINAL FLOW TEST UPON COMPLETION OF ALL SYSTEM WORK, AND BACKFLOW PREVENTER TEST REPORT PER NFPA 13 TO FIRE DEPARTMENT UPON COMPLETION OF WORK.
 - SPRINKLERS SHALL BE LOCATED IN CENTER OF CEILING TILES, OR CENTER OF SHORT SIDE OF TILE AND AT QUARTER POINTS OF LONG SIDE OF TILE, WHERE APPLICABLE, AND SHALL BE LOCATED IN RELATIONSHIP TO LIGHTING FIXTURES AND HVAC DIFFUSERS TO MAINTAIN A SYMMETRICAL PATTERN FOR AN AESTHETICALLY PLEASING EFFECT. NO PIPING SHALL BE EXPOSED WITH THE EXCEPTION OF PIPING IN AREAS WITH NO CEILING.
 - PROVIDE ADDITIONAL SPRINKLERS BEYOND CODE REQUIRED MINIMUMS TO PROVIDE SYMMETRICAL LAYOUTS.
 - PROVIDE A TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION DEVICE. SIZE SHALL BE ADEQUATE TO PROVIDE FOR FLOW TEST SYSTEM DEMAND. PROVIDE SUPERVISED SWITCH ON ALL VALVES.
 - NO SPRINKLER PIPING SHALL BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS/EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.
 - MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.
 - MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. ALL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.
 - PROVIDE AND INSTALL GUARDS ON SPRINKLERS SUSCEPTIBLE TO MECHANICAL DAMAGE INCLUDING, BUT NOT LIMITED TO, SPRINKLERS IN MECHANICAL ROOMS AND SPRINKLERS INSTALLED LESS THAN 7' AFF.
 - CONTRACTOR TO PROVIDE COPY OF NFPA 25 TO OWNER UPON COMPLETION OF PROJECT, AS REQUIRED PER NFPA 13.

SPRINKLER SYSTEM								
DESIGN DENSITY AND SPRINKLER COVERAGE CHART								
HAZARD CLASSIFICATION	SYSTEM TYPE	AREA	DENSITY (GPM/SQFT)	MAXIMUM COVERAGE AREA PER SPRINKLER (SQFT)	DESIGN AREA (SQFT)	HOSE STREAM (GPM)	SPRINKLER "K" FACTOR	
LH1	LIGHT HAZARD	WET-PIPE	0.10	225	1500	250	5.6	
OH1	ORDINARY HAZARD, GROUP 1	WET-PIPE	0.15	150	1500	250	8.0	

FLOW TEST INFORMATION	
STATIC PRESSURE:	80 PSI
RESIDUAL PRESSURE:	72 PSI
HYDRANT FLOW:	2180 GPM
PIST:	30 PSI
FLOW HYDRANT:	1W OF BARNETT RD ON E LIVINGSTON AVE
PRESSURE HYDRANT:	2W OF BARNETT RD ON E LIVINGSTON AVE
TEST DATE:	10/10/2021
TEST TIME:	12:00PM



- NOTES:
- FIRE PROTECTION SYSTEM USES WATER ONLY. THE SITE DOES NOT HAVE ACCESS TO AUXILIARY WATER SYSTEM AND THE SYSTEM IS NOT SUBJECT TO CHEMICAL ADDITIVES.
 - CLEARANCE FROM WATER METER TO WALL TO BE 18".

2 DETAIL - FIRE SERVICE ENTRANCE
NTS

SCHOOLEY CALDWELL

ARCHITECTURE. INSPIRED.

300 Marconi Boulevard Columbus OH 43215
T 614-628-0200 F 614-628-0311
schooleyaldwell.com

EVOKE
Studio | Architecture

401 Foster St, Durham NC 27701
919-495-6070
evokestudio.com

- Consultants:
- Civil Engineer: Moody Engineering
 - Structural Engineer: SMBH
 - MEP Engineer: Advanced Engineering Consultants
 - Lighting Design: Zinkon Creative Studio

Drawing Issue Dates

Design Development Submittal 10/09/2023

Revision Schedule		
#	Description	Date

CML Barnett Branch Addition/Renovation

3434 E Livingston Ave. Columbus, OH 43227

NOT FOR CONSTRUCTION

GENERAL INFORMATION - FIRE PROTECTION

F001

9/29/2023

22/160

Revision Schedule

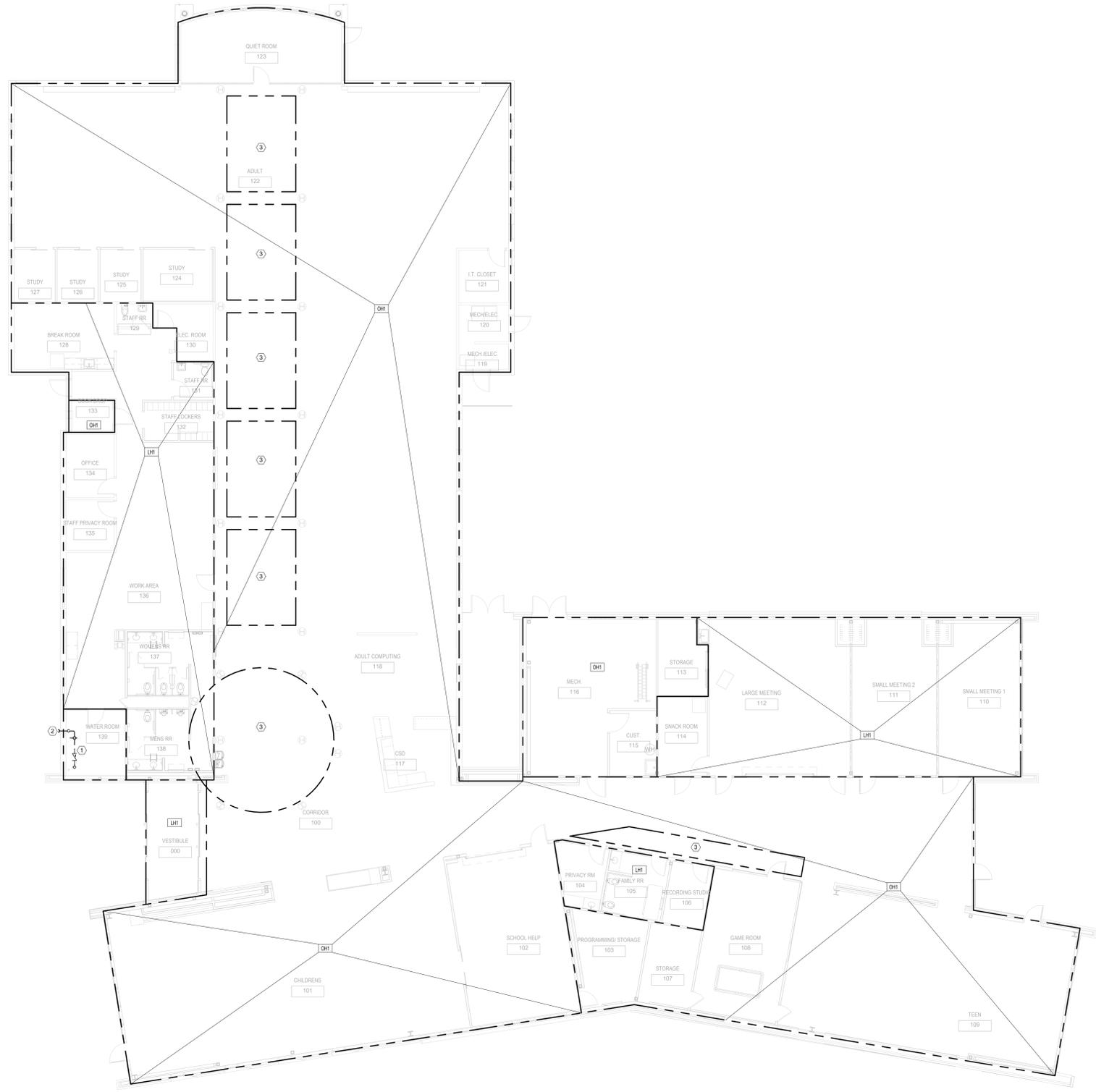
#	Description	Date
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NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

- FIRE SERVICE ENTRANCE. SEE DETAIL ON SHEET F001.
- FIRE DEPARTMENT CONNECTION.
- SKYLIGHT. AVOID ROUTING PIPING THROUGH THIS SPACE.

SHEET KEYNOTES



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

Autodesk Docs/Barnett Metropolitan Library/Barnett_CML_v22 - MEP.rvt

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GENERAL SHEET NOTES

1.

SHEET KEYNOTES

- EXISTING TRAP PRIMER AND ASSOCIATED PIPING TO BE REMOVED.
- DISCONNECT EXISTING GAS PIPING FROM EXISTING HVAC EQUIPMENT. EXISTING GAS PIPING TO BE REMOVED.
- EXISTING LIMITED AREA SPRINKLER PIPING TO BE REMOVED.
- EXISTING LIMITED AREA SPRINKLER SYSTEM IN THIS AREA TO BE REMOVED.
- ALL EXISTING PLUMBING FIXTURES, HOT & COLD WATER, SANITARY AND VENT PIPING IN THIS AREA TO BE REMOVED. EXISTING 3" VTR TO REMAIN.
- EXISTING GAS METER ASSEMBLY AND ASSOCIATED PIPING TO BE REMOVED.
- EXISTING DOMESTIC WATER SERVICE ENTRANCE AND ASSOCIATED PIPING TO BE REMOVED.
- EXISTING ELECTRIC WATER HEATER AND ASSOCIATED PIPING TO BE REMOVED.
- EXISTING FLOOR DRAIN AND ASSOCIATED PIPING TO BE REMOVED.
- EXISTING SINK, FAUCET AND TRIM TO BE REMOVED. EXISTING HOT & COLD WATER AND SANITARY PIPING TO REMAIN.

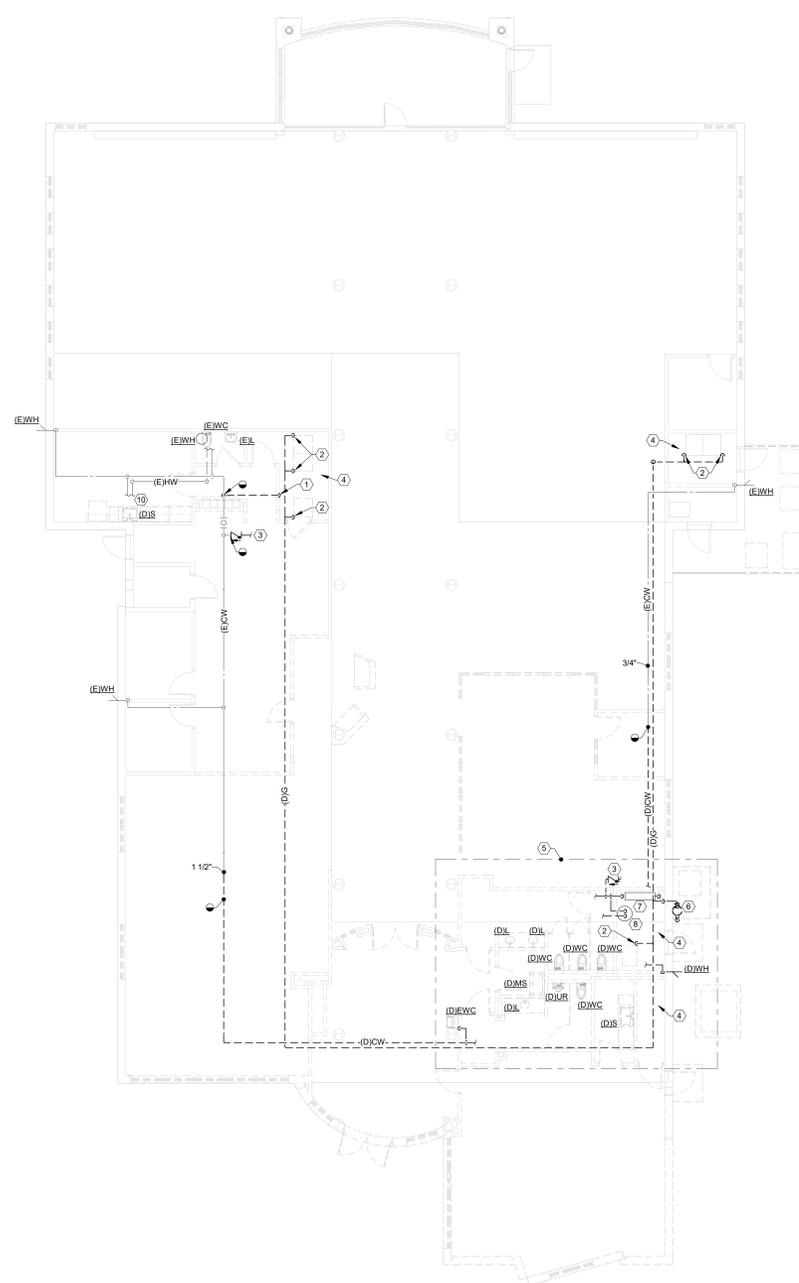
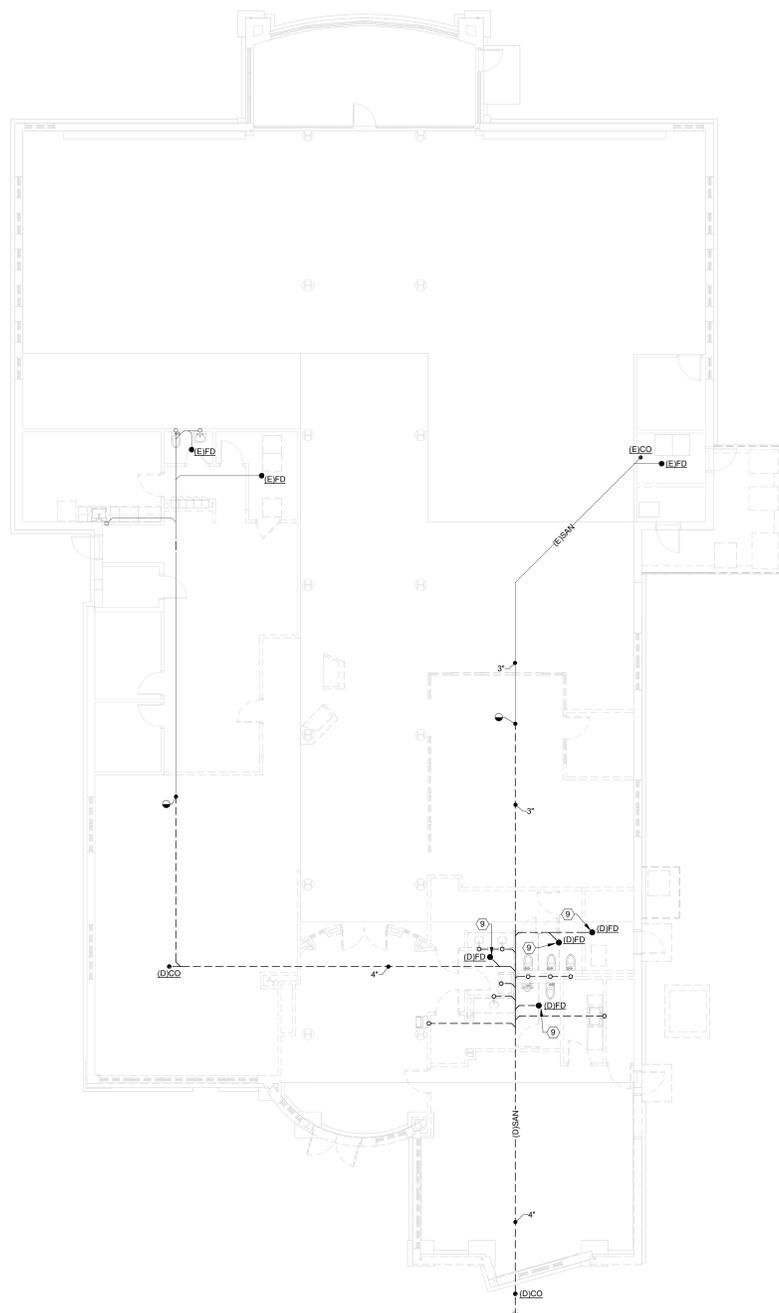
Consultants:

- Civil Engineer*
Moody Engineering
205 Spruce St, Suite 200, Columbus OH 43215
- Landscape Architect*
MKSK
482 Ludlow St, Columbus OH 43215
- Structural Engineer*
SMBH
1188 Dublin Rd, Suite 200, Columbus OH 43215
- MEP Engineer*
Advanced Engineering Consultants
1303 Dublin Rd, Columbus OH 43215
- Lighting Design*
Zinkon Creative Studio
1222 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule		
#	Description	Date



1 UNDERSLAB FLOOR PLAN - PLUMBING - DEMOLITION
1/8" = 1'-0"

2 FIRST FLOOR PLAN - PLUMBING - DEMOLITION
1/8" = 1'-0"

SYMBOLS LIST	
PIPING	
EXISTING TO REMAIN	(E)
EXISTING TO BE ABANDONED	(A)
EXISTING TO BE DEMOLISHED	(D)
EXISTING TO REMAIN	(E)
FUTURE	(F)
EXISTING TO BE RELOCATED	(R)
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
CAP	CAPACITY
CFM	CUBIC FEET PER HOUR
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DEPT	DEPARTMENT
DIA	DIAMETER
DWG	DRAWING
EQUIP	EQUIPMENT
EWIC	ELECTRIC WATER COOLER
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FIN FL EL	FINISHED FLOOR ELEVATION
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLONS
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
IN	INCHES
INV EL	INVERT ELEVATION
KW	KILOWATT
L	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
ND	NUMBER
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OS&Y	OUTSIDE STEM AND YOKE VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PCP	RECIRCULATING PUMP
RD	ROOF DRAIN
RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
S	SINK
SHT	SHEET
SPEC	SPECIFICATION
SRD	SECONDARY ROOF DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLTMETER
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WATER
WC	WATER CLOSET
NOTATIONS	
CONNECT TO EXISTING	⊕
BEGINNING AND/OR END OF DEMOLITION	⊖

GENERAL NOTES:

- PROVIDE NEW DOMESTIC WATER, SANITARY WASTE, STORM DRAINAGE, NATURAL GAS FOR THIS BUILDING. PROVIDE ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL SYSTEM. INSTALL SYSTEMS IN ACCORDANCE WITH STATE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES.
- ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH FIRE STOP MATERIAL BY TRADE CONTRACTORS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS. NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.
- ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
- ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.
- A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE REFLECTED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (PDF) FORMAT REFLECTING ACCURATE FIELD CONDITIONS.
- ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATINGS OF THE PENETRATED BARRIER.
- CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.
- DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILING SHALL NOT BE USED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.
- NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.
- EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH CURRENT PLUMBING CODE. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES.
- NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
- PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STANCHIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.
- PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.
- CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.
- PIPING SHALL NOT BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS/EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.
- MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.
- MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. ALL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
CAP	CAPACITY
CFM	CUBIC FEET PER HOUR
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DEPT	DEPARTMENT
DIA	DIAMETER
DWG	DRAWING
EQUIP	EQUIPMENT
EWIC	ELECTRIC WATER COOLER
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FIN FL EL	FINISHED FLOOR ELEVATION
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLONS
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
IN	INCHES
INV EL	INVERT ELEVATION
KW	KILOWATT
L	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
ND	NUMBER
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OS&Y	OUTSIDE STEM AND YOKE VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PCP	RECIRCULATING PUMP
RD	ROOF DRAIN
RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
S	SINK
SHT	SHEET
SPEC	SPECIFICATION
SRD	SECONDARY ROOF DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLTMETER
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WATER
WC	WATER CLOSET

PLUMBING FIXTURE SCHEDULE			
TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL #
WC1	WATER CLOSET, VITREOUS CHINA, FLOOR MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW CONSUMPTION 1.6 GPF, DIRECT-FED SPRINKLER ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10-1/2" WATER SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.6 GPF.	AMERICAN STANDARD	2234-001
WC2	FLUSH VALVE, DUAL FLUSH, DAPRIMARM TYPE FLUSH VALVE, CHROME PLATED, SYNTHETIC RUBBER DAPRIMARM, IMPRIMED SENSOR, THREE SECOND FLUSH DELAY, OVERSIDE BUTTON, FOUR SIZE AN BATTERIES, "LOW BATTERY" FLASHING LED, IMPRIMED SENSOR RANGE ADJUSTMENT SCREW, 1" U.P.S. SCREWDRIVER ANGLE STOP, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1-1/2" TOP SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 1.61 GPF.	SILOAN	EC088111-1-61-1
WC3	SEAT, HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL, AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHIRCH	29CCT
WC4	WATER CLOSET, ADA COMPLIANT, VITREOUS CHINA, FLOOR MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW CONSUMPTION 1.6 GPF, DIRECT-FED SPRINKLER ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10-1/2" WATER SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.6 GPF.	AMERICAN STANDARD	3043-001
WC5	FLUSH VALVE, DUAL FLUSH, DAPRIMARM TYPE FLUSH VALVE, CHROME PLATED, SYNTHETIC RUBBER DAPRIMARM, IMPRIMED SENSOR, THREE SECOND FLUSH DELAY, OVERSIDE BUTTON, FOUR SIZE AN BATTERIES, "LOW BATTERY" FLASHING LED, IMPRIMED SENSOR RANGE ADJUSTMENT SCREW, 1" U.P.S. SCREWDRIVER ANGLE STOP, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1-1/2" TOP SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 1.61 GPF.	SILOAN	EC088111-1-61-1
WC6	SEAT, HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL, AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHIRCH	29CCT
WC7	URINAL, ADA COMPLIANT, VITREOUS CHINA, WALL MOUNT, NON-FRONT-FEED, 1.6 GPF, FLUSHING RIN, ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW CONSUMPTION 1.6 GPF, DIRECT-FED SPRINKLER ACTION, EXTENDED HOSE FOR PRIVACY, 3/4" INLET TOP SPUD, OUTLET CONNECTION THROUGH 2" HOLE, MEETS ASME FLUSH REQUIREMENTS AT 1.6 GPF, STAINLESS STEEL STRAINER.	AMERICAN STANDARD	6990-005
WC8	FLUSH VALVE, DAPRIMARM TYPE FLUSH VALVE, CHROME PLATED, SYNTHETIC RUBBER DAPRIMARM, IMPRIMED SENSOR, THREE SECOND FLUSH DELAY, OVERSIDE BUTTON, FOUR SIZE AN BATTERIES, "LOW BATTERY" FLASHING LED, IMPRIMED SENSOR RANGE ADJUSTMENT SCREW, 1" U.P.S. SCREWDRIVER ANGLE STOP, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1-1/2" TOP SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 1.61 GPF.	SILOAN	EC088111-61-0
WC9	CARRIER, WALL URINAL, SUPPORT WITH TOP SUPPORT PLATE, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATE AND MOUNTING FASTENERS.	ZURN	589E612100
WC10	LAVATORY, 20-1/2" X 18-1/4" VITREOUS CHINA, WALL HUNG, FRONT OVERDRAIN, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEVER, FAUCET HOLES ON 4" CENTERS, CONCEALED AIMS SUPPORT.	AMERICAN STANDARD	0355-012
WC11	FAUCET, DECK MOUNTED FAUCET WITH INTERIOR SPOUT, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, LEVER HANDLES, SECURED COLOR CODED INDEX BUTTONS, 4" CENTERS.	CHICAGO	802-3KABCP
WC12	TRIM, SUPPLY PIPE WITH LEAD-KEY STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT, DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. FLUG, CHROME PLATED BRASS 17 GAUGE TAILPIPE.	MOORE	165LK, 8902, 149
WC13	THERMOSTATIC MIXING VALVE, LEAD-FREE DESIGN, WAX-FILLED THERMOSTAT, ADJUSTABLE SET POINT WITH TEMPERATURE RANGE, UNIVERSAL MOUNTING CAPABILITY, INTEGRAL CHECK VALVES AND STRAINER, ASSE 1070 COMPLIANT, SET TO 110°F.	BRADLEY	593-400
WC14	CARRIER, LAVATORY SUPPORT WITH CONCEALED AIMS, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEALED AIMS, STEEL SLEEVES, ALIGNMENT BRISSES AND MOUNTING FASTENERS.	589E612100	
WC15	FAUCET, ADA COMPLIANT, 20" X 14" OVAL, VITREOUS CHINA, CONTOUR MOUNTED, FRONT OVERDRAIN, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEVER, FAUCET HOLES ON 4" CENTERS.	AMERICAN STANDARD	0476-028
WC16	FAUCET, DECK MOUNTED FAUCET WITH INTERIOR SPOUT, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, LEVER HANDLES, SECURED COLOR CODED INDEX BUTTONS, 4" CENTERS.	CHICAGO	802-3KABCP
WC17	TRIM, SUPPLY PIPE WITH LEAD-KEY STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT, DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. FLUG, CHROME PLATED BRASS 17 GAUGE TAILPIPE.	MOORE	165LK, 8902, 149
WC18	THERMOSTATIC MIXING VALVE, LEAD-FREE DESIGN, WAX-FILLED THERMOSTAT, ADJUSTABLE SET POINT WITH TEMPERATURE RANGE, UNIVERSAL MOUNTING CAPABILITY, INTEGRAL CHECK VALVES AND STRAINER, ASSE 1070 COMPLIANT, SET TO 110°F.	BRADLEY	593-400
WC19	MOP SINK, 30"x24", PRECAST TERRAZZO ONE PIECE PRODUCTS ARE MADE OF MARBLE CARBON CAST IN GREY PORTLAND CEMENT, 12" HIGH, SHAPED FOR 12" WIDE, 1/2" PITCH TOWARD INSIDE, STAINLESS STEEL CAPS ON ALL CURBS, DRAIN BODY MADE OF STAINLESS STEEL, CAST INTERNALLY AND PROVIDED FOR CALIBRATED LEAD CONNECTION NOT LESS THAN 1" DEEP TO 1/2" PIPE.	FIAT	178100
WC20	TRIM, WALL MOUNTED SERVICE SINK FAUCET, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, ATMOSPHERIC VACUUM BREAKER SPOUT WITH PAL, HOOD AND WALL BRACE, 3/4" MALE GARDEN HOSE THREAD OUTLET, LEVER HANDLES WITH SECURED COLOR CODED INDEX BUTTONS.	CHICAGO	887CP
WC21	ELECTRIC WATER COOLER, ADA COMPLIANT, DUAL HEIGHT, WALL-MOUNTED FRONT FLUSH BUTTON, GALVANIZED STEEL CHASSIS, ONE PIECE STAINLESS STEEL TOP, BARN HAS IMPROVED BUMPER AND, WIND-RESISTANT BUMBER, HEAD ONLY, ONE PIECE CONSTRUCTION, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 1.6 GPM PRESSURE COMPENSATING AERATOR OUTLET, LEVER HANDLES, SECURED COLOR CODED INDEX BUTTONS.	ELKAY	ET2150SLK
WC22	TRIM, SUPPLY PIPE WITH LEAD-KEY STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT, DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP.	MOORE	165LK, 8902
WC23	CARRIER, WATER COOLER SUPPORT WITH TOP AND BOTTOM PLATES, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS.	ZURN	589E612100
WC24	SINK, 27-1/8" X 21-1/2" X 4", DEEP, SINGLE BOWL, #18 GAUGE, TYPE 304 NICHEL BEARING STAINLESS STEEL, TOP MOUNT, 1-3/4" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS 3/16" BELOW OUTSIDE EDGE OF SINK, FULLY UNDERCROTTED TO DAMPEN RESONANCE AND PREVENT CONDENSATION, 3/16" DRAIN OPENING, 4" CENTERS.	ELKAY	LS219
WC25	FAUCET, DECK MOUNTED WIDESPREAD FAUCET, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 4" CENTERS, 0" SWING SPOUT, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, WING METAL HANDLES AND SECURED COLOR CODED INDEX BUTTONS.	CHICAGO	1199-5998BCP
WC26	DRAIN WITH NOZZLE, PLATED BRASS BODY WITH GRID STRAINER, POLISHED FINISH.	ELKAY	L332
WC27	TRIM, SUPPLY PIPE WITH LEAD-KEY STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT, P.O. FLUG, CHROME PLATED BRASS 17 GAUGE TAILPIPE.	MOORE	165LK, 8912
WC28	FLOOR DRAIN, ADJUSTABLE CAST IRON BODY, ROUND NICHEL BRONZE STRAINER, CALK OUTLET, CONTRACTOR CAST BUFF STRAINER TO BE SUITABLE FOR BAREFOOT TRAFFIC IN SHOWER AREAS, SURSEAL INLINE FLOOR DRAIN TRAP SEALER MODEL (7) 59300V OR (4) 59400V.	J.R. SMITH	2005-A
WC29	FLOOR DRAIN, CAST IRON BODY, 12-INCH DIAMETER CAST IRON TRAP GRATE, SOLID FREE-STANDING SEDIMENT BUCKET, SIZE AS INDICATED ON DRAWINGS, FLOOR DRAINS LOCATED IN MECHANICAL ROOMS TO WAIVE CAST IRON FUMES, SURSEAL INLINE FLOOR DRAIN TRAP SEALER MODEL (7) 59300V OR (4) 59400V.	J.R. SMITH	1015-7C
WC30	PRIMARY ROOF DRAIN LARGE, GENERAL PURPOSE ROOF DRAIN WITH CAST IRON BODY, CAST IRON DOME, BOTTOM OUTLET, ADJUSTABLE EXTENSION BLEVE, REVERSED COLLAR, FLASHING CLAMP WITH GRAVEL STOP, SUMP RECEIVER, AND UNDERDECK CLAMP, PROVIDE EXPANSION JOINT ON ALL BOTTOM OUTLET ROOF DRAINS, SIZE OF PIPING ON PLAN INDICATES OUTLET SIZE OF ROOF DRAIN.	J.R. SMITH	1080-8C
WC31	SECONDARY ROOF DRAIN FLOORING DAPRIM TYPE WITH 2-INCH CAST IRON WATER COLLAR, LARGE, GENERAL PURPOSE ROOF DRAIN WITH CAST IRON BODY, CAST IRON DOME, BOTTOM OUTLET, EXTENSION, FLASHING CLAMP WITH GRAVEL STOP, SUMP RECEIVER, UNDERDECK CLAMP, PROVIDE EXPANSION JOINT ON ALL BOTTOM OUTLET ROOF DRAINS, SIZE OF PIPING ON PLAN INDICATES OUTLET SIZE OF ROOF DRAIN.	J.R. SMITH	1080-8C
WC32	DOWNSPOUT NOZZLE, POLISHED BRONZE BODY, NPT THREADS, WALL FLANGE WITH MOUNTING HOLES, SIZE OF PIPING ON PLANS INDICATES OUTLET SIZE, PROVIDE BIRD SCREEN.	J.R. SMITH	1770
WC33	WALL HYDRANT, PRESSUREPROOF FAUCET, BRONZE CARTRIDGE, HANDLE, LOCKING POLISHED BRONZE NICHEL BODY AND COVER, SELF-DRAINING VACUUM BREAKER, INTERIOR BACKFLOW PREVENTER, 3/4" SIZE, LENGTH AS REQUIRED.	WOODWARD	87
WC34	INTERIOR CLEANOUT, CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED CAST IRON TOP, BRONZE PLUG, GASKET SEAL, ROUND MEDIUM DUTY CAST IRON TOP.	J.R. SMITH	40218
WC35	EXTERIOR CLEANOUT, CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED CAST IRON TOP, BRONZE PLUG, GASKET SEAL, ROUND HEAVY DUTY CAST IRON TOP.	J.R. SMITH	42115

DOMESTIC WATER HEATER SCHEDULE											
TAG	ELECTRIC		CPH INPUT	MINIMUM EFFICIENCY	GALLONS OF STORAGE	RECOVERY AT 100°F (GPH)	EXHAUST SIZE	INTAKE SIZE	MANUFACTURER	MODEL #	NOTES
	VOLT	PHASE									
GW1	120	1	120	95%	60	138	4"	4"	A.O. SMITH	BTH-120	SET TANK TEMPERATURE TO 140°F

EXPANSION TANK SCHEDULE					
TAG	TOTAL VOLUME (GALLONS)	INLET	MANUFACTURER	MODEL #	NOTES
ET1	4	3/4"	AMFROL	8T-152	CHANGE TO ROOMING WATER PRESSURE AFTER REDUCED PRESSURE BACKFLOW PREVENTER

PUMP SCHEDULE							
TAG	ELECTRIC		GPM	FEET OF HEAD	MANUFACTURER	MODEL #	NOTES
	VOLT	PHASE	HP				
RCP1	120	1	105	5	10	GRUNDFOS	LP15-42FR

THERMOSTATIC MIXING VALVE SCHEDULE								
TAG	MINIMUM GPM	MAXIMUM GPM	PRESSURE DROP (PSI)	INLET SIZE	OUTLET SIZE	MANUFACTURER	MODEL #	NOTES
TMV1	1.5	10	10	3/4"	1"	BRADLEY	589-590	SET DISCHARGE TEMPERATURE TO 110°F

PLUMBING FIXTURE ROUGH-IN SCHEDULE						
FIXTURE	WASTE	TRAP	VENT	COLD	HOT	
WC1	4"	INTERGRAL	2"	1"	NA	
WC2	4"	INTERGRAL	2"	1"	NA	
UR1	2"	INTERGRAL	1-1/2"	3/4"	NA	
L1	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	1/2"	
L2	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	1/2"	
WC3	2"	2"	1-1/2"	1/2"	1/2"	
EW1	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	NA	

Revision Schedule

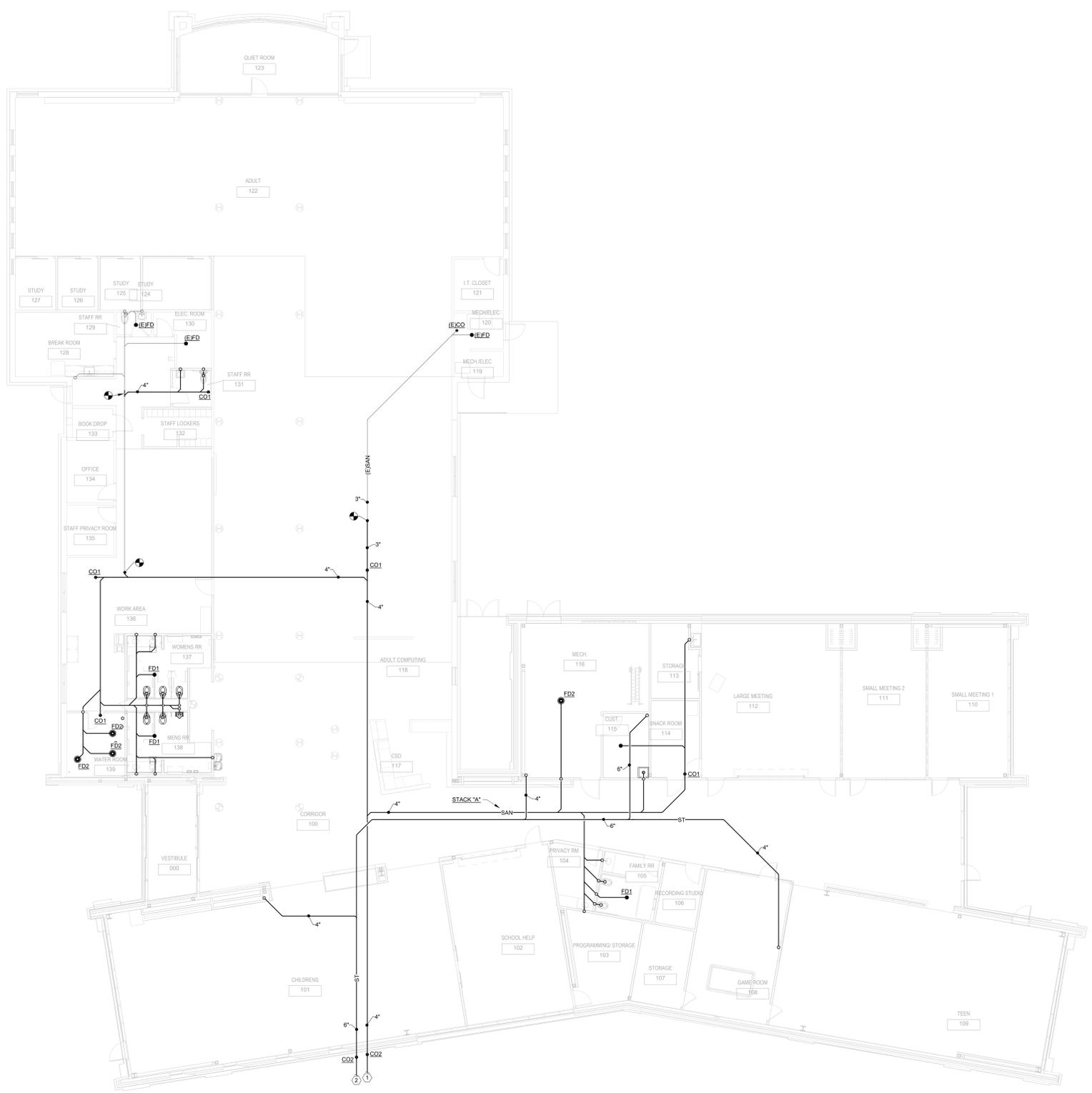
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GENERAL SHEET NOTES

- INVERT ELEVATION OF 4" SAN = 96.00' WITH A FINISH FLOOR ELEVATION OF 100.00'
- INVERT ELEVATION OF 6" ST = 97.00' WITH A FINISH FLOOR ELEVATION OF 100.00'

SHEET KEYNOTES



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

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GENERAL SHEET NOTES

1.

SHEET KEYNOTES

1. WATER SERVICE ENTRANCE. SEE DETAIL ON SHEET P501.
2. GAS METER ASSEMBLY. SEE DETAIL ON SHEET P501.
3. CONNECT 2" V TO EXISTING VENT IN THIS AREA.
4. SKYLIGHT. AVOID ROUTING PIPING THROUGH THIS SPACE.
5. CONNECT EXISTING 1/2" CW, 1/2" HW AND 1-1/2" SAN TO NEW SINK.
6. 4" ST TO BELOW SLAB WITH CLEANOUT AT BASE.
7. 6" ST TO BELOW SLAB WITH CLEANOUT AT BASE.

Consultants:

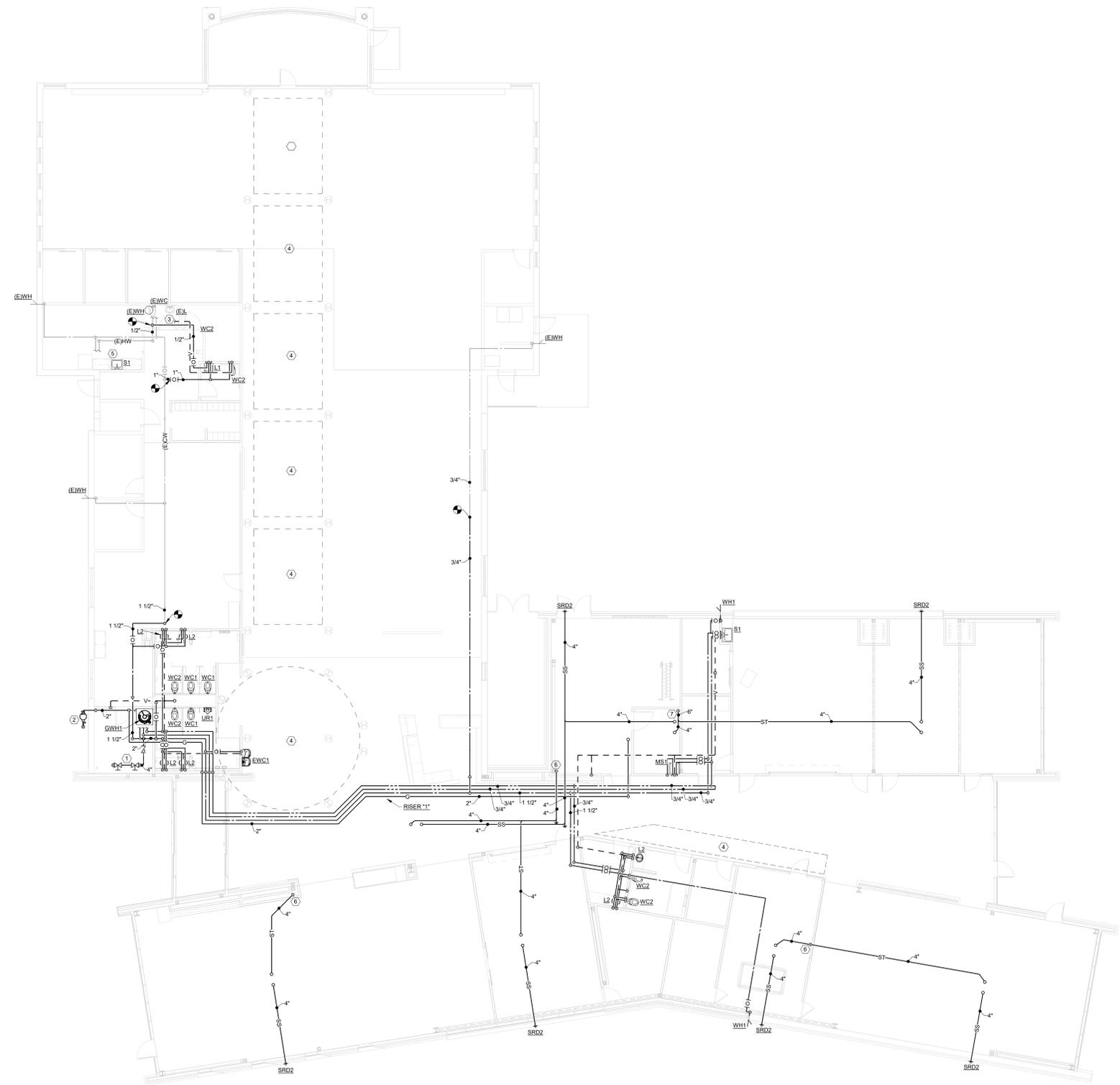
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- Landscape Architect*
MKSK
482 Ludlow St, Columbus OH 43215
- Structural Engineer*
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- Lighting Design*
Zinkon Creative Studio
1222 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

#	Description	Date
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1 FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"

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Addition/Renovation

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FIRST FLOOR
PLAN - PLUMBING

P101
9/29/2023

22/160

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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

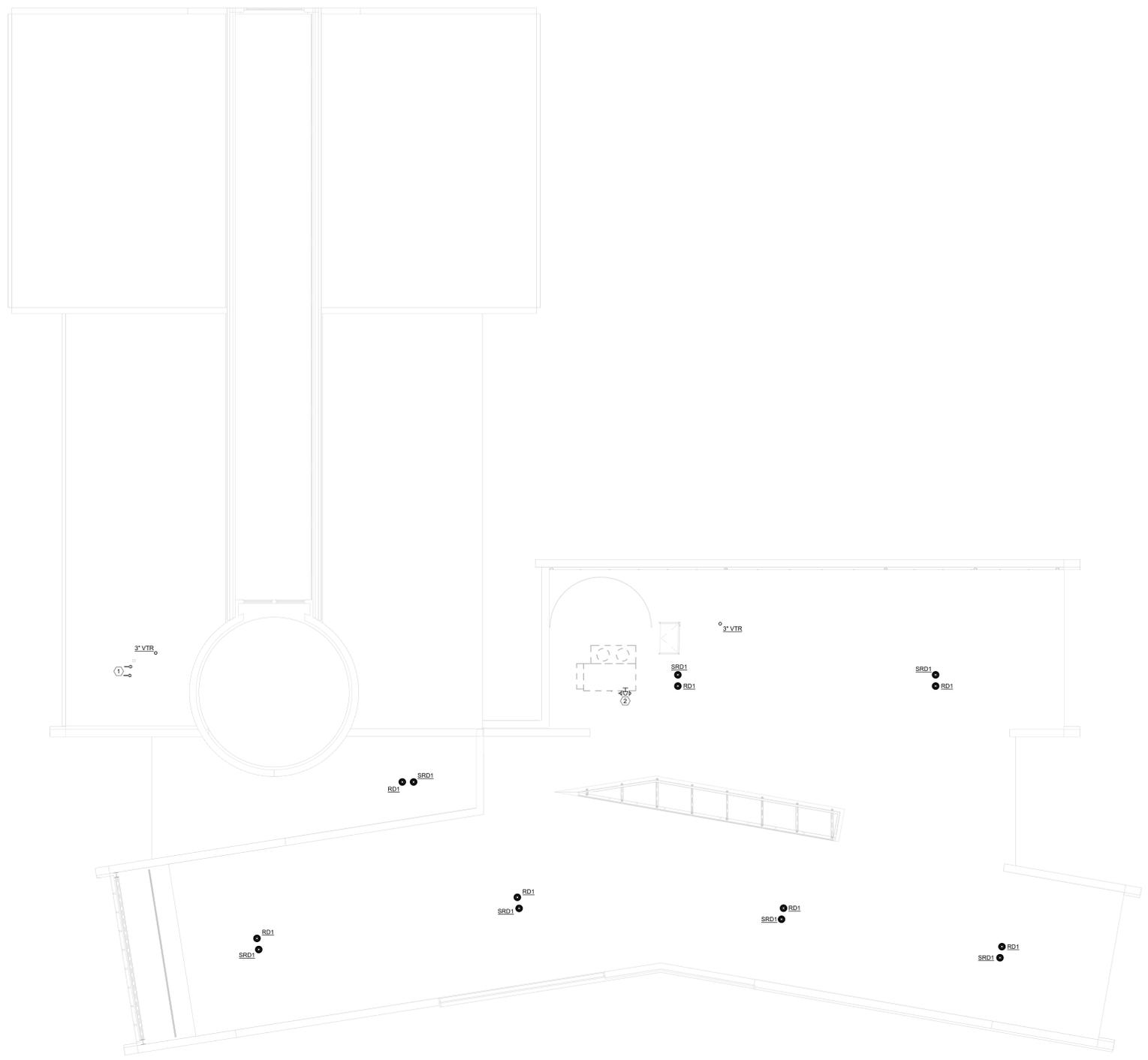
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GENERAL SHEET NOTES

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SHEET KEYNOTES

- 4" INTAKE AND 4" EXHAUST SERVING GAS-FIRED WATER HEATER.
- GAS LINE FROM BELOW. PROVIDE SHUT-OFF VALVE AND DIRT LEG. MAKE FINAL CONNECTION TO HVAC EQUIPMENT.



1 ROOF PLAN - PLUMBING
1/8" = 1'-0"

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**ROOF PLAN -
PLUMBING**

P102

9/29/2023

22160

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Drawing Issue Dates

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10/09/2023

Revision Schedule

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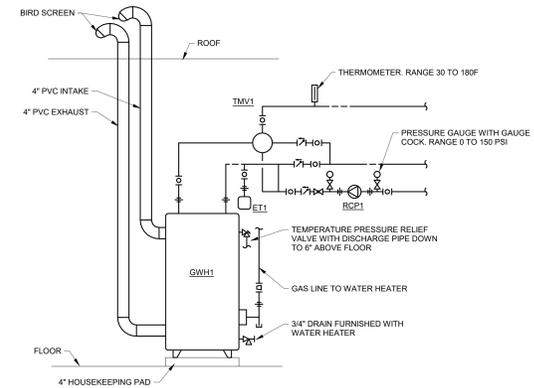
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DETAILS -
PLUMBING

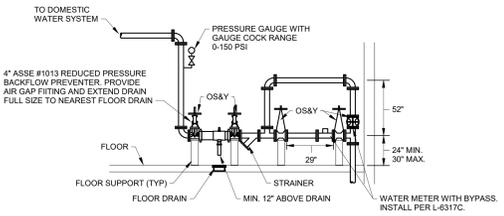
P501

9/29/2023

22160



2 DETAIL - GAS-FIRED DOMESTIC WATER HEATER
NTS



1 DETAIL - DOMESTIC WATER SERVICE ENTRANCE
NTS

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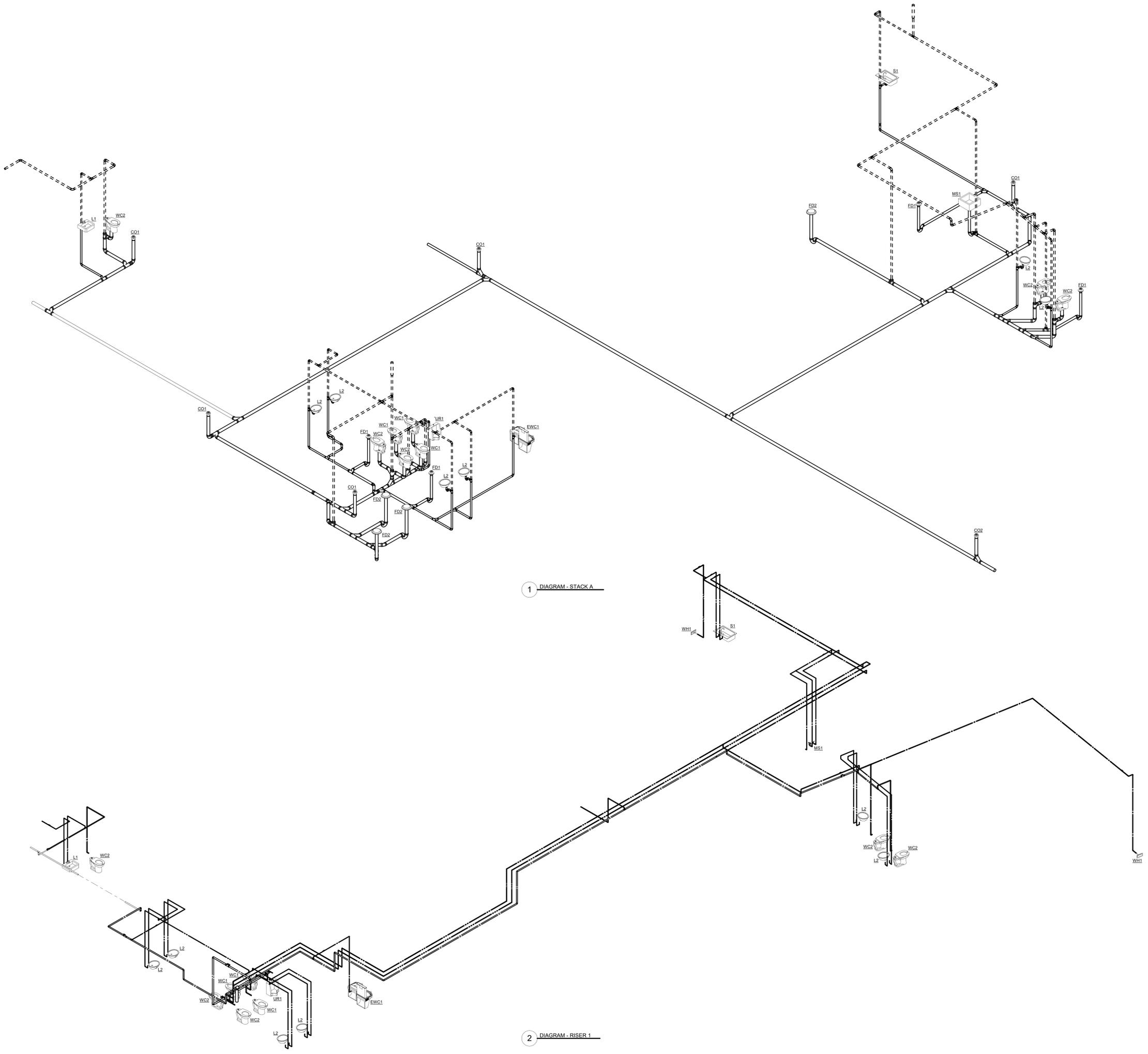
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Revision Schedule

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1 DIAGRAM - STACK A

2 DIAGRAM - RISER 1

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DIAGRAMS -
PLUMBING

P701

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22160

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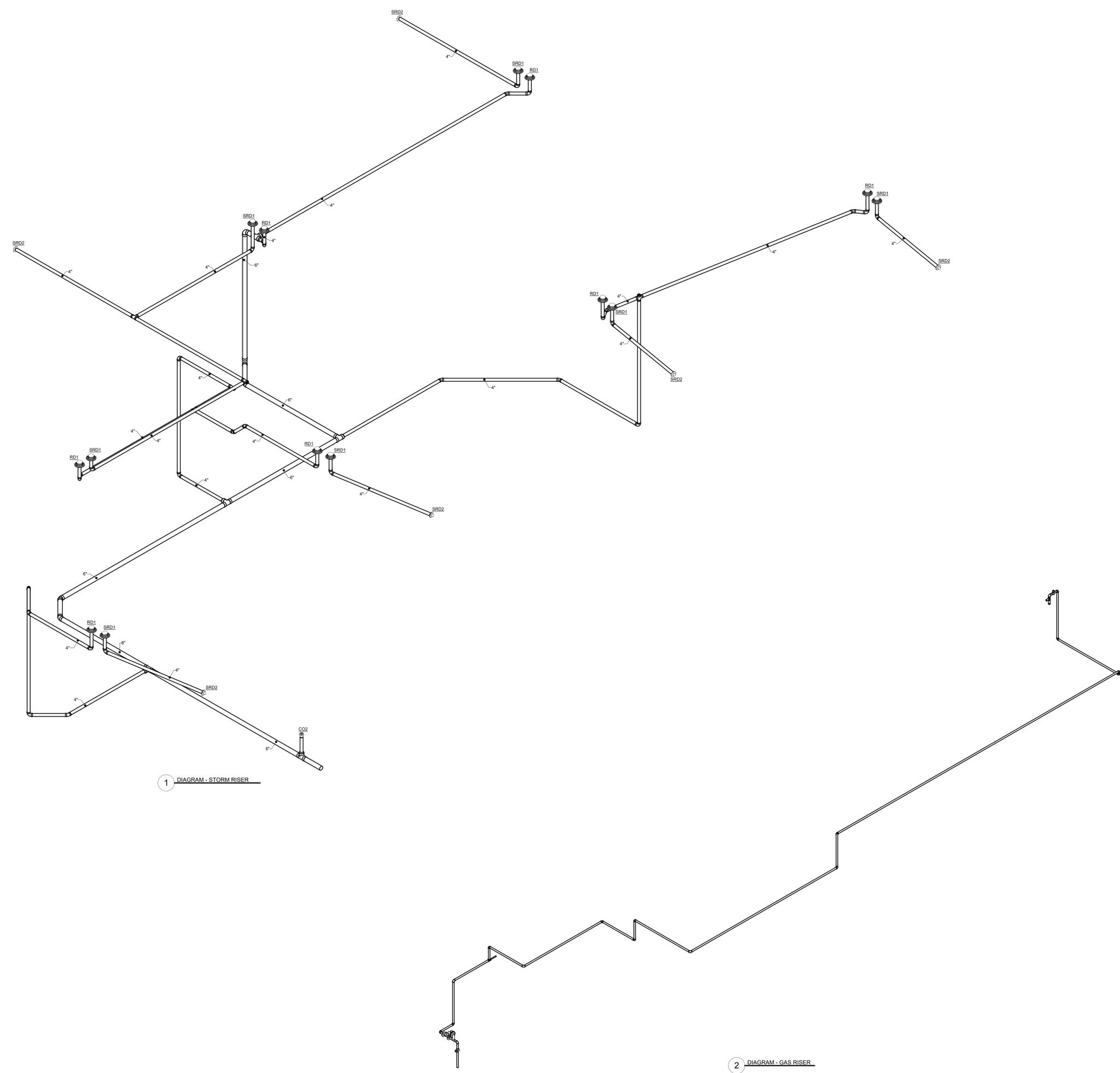
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10/09/2023

Revision Schedule

#	Description	Date
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1 DIAGRAM - STORM RISER

2 DIAGRAM - GAS RISER

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DIAGRAMS -
PLUMBING

P702

9/29/2023

22160

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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

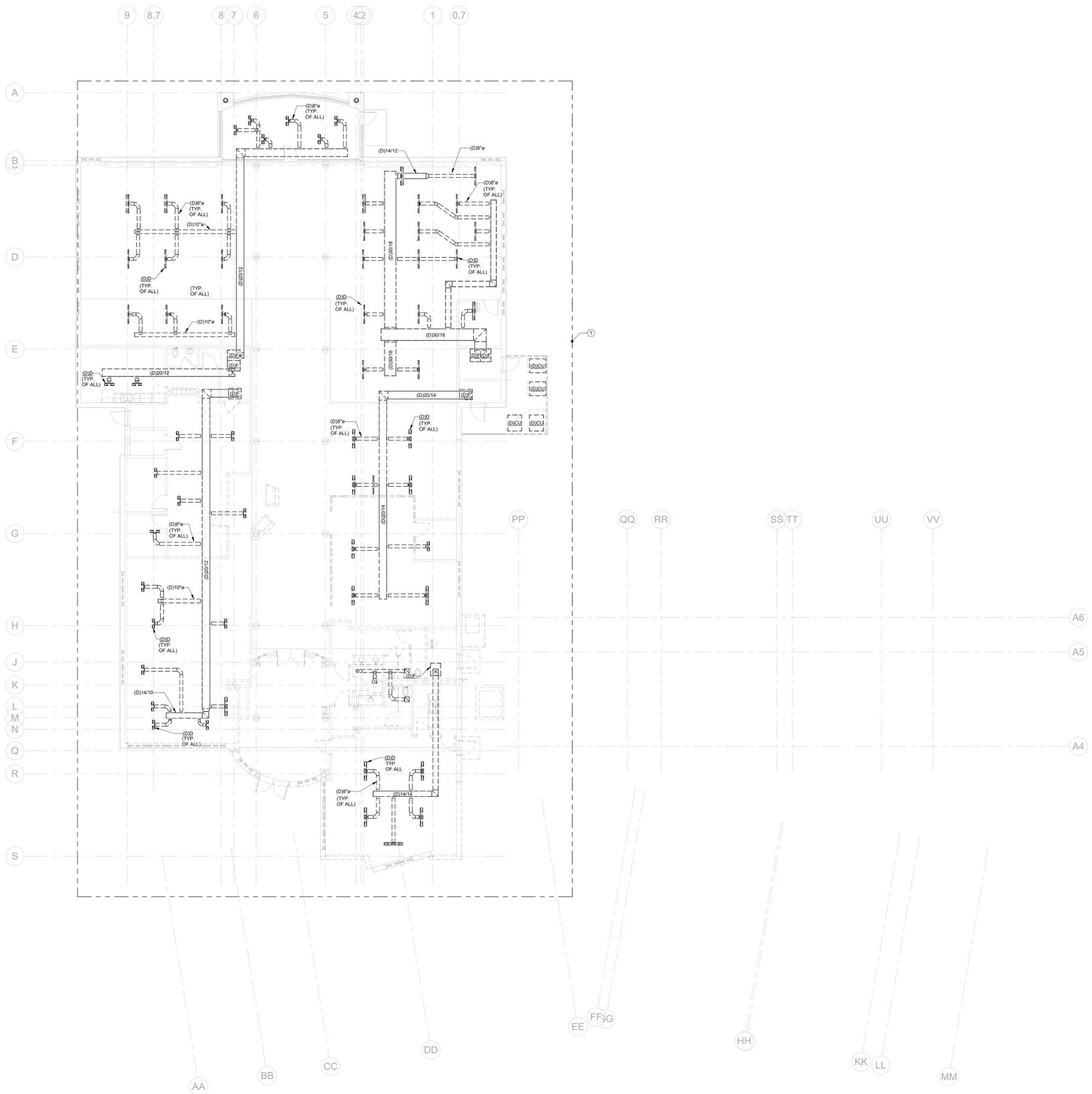
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GENERAL SHEET NOTES

- REFER TO SHEET HD01 FOR GENERAL NOTES.
- DEMOLISH ALL EXISTING HVAC ASSOCIATED ITEMS. THIS INCLUDES EQUIPMENT, DUCTWORK, GRILLES, DIFFUSERS, EQUIPMENT PADS, CONDENSATE PIPING, REFRIGERANT PIPING, THERMOSTATS AND ALL APPURTENANCES COMPLETE.

SHEET KEYNOTES

- DEMOLISH ALL EXISTING HVAC ASSOCIATED ITEMS WITHIN THE BOXED AREA. THIS INCLUDES EQUIPMENT, DUCTWORK, GRILLES, DIFFUSERS, EQUIPMENT PADS, CONDENSATE PIPING, REFRIGERANT PIPING, THERMOSTATS AND ALL APPURTENANCES COMPLETE.



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

CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

FIRST FLOOR
PLAN -
MECHANICAL -
DEMOLITION

HD101

9/29/2023

22160

Revision Schedule		
#	Description	Date

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
AE	ARCHITECT/ENGINEER
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
B0B	BOTTOM OF BEAM
B0D	BOTTOM OF DUCT
B0P	BOTTOM OF PIPE
B0S	BOTTOM OF STRUCTURE
CL	CENTER LINE
CO	CLEAN OUT
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FPI	FINS PER INCH
GTC	GENERAL TRADES CONTRACTOR
ID	INNER DIAMETER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MFR	MANUFACTURER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
REL	RELIEF AIR
SA	SUPPLY AIR
SOC	SENSIBLE COOLING CAPACITY
SP	STATIC PRESSURE
TCC	TOTAL COOLING CAPACITY
TCP	TEMPERATURE CONTROL PANEL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

SYMBOLS LIST

NOTE: NOT ALL SYMBOLS MAY BE USED.

LINE STYLES	DUCTWORK
NEW WORK (VISIBLE)	SUPPLY/O.A. DUCT RISE (SINGLE LINE)
NEW WORK (HIDDEN)	SUPPLY/O.A. DUCT RISE (DOUBLE LINE)
EXISTING WORK (VISIBLE)	SUPPLY/O.A. DUCT RISE (SINGLE LINE)
EXISTING WORK (HIDDEN)	SUPPLY/O.A. DUCT RISE (DOUBLE LINE)
EXISTING TO BE DEMOLISHED	SUPPLY/O.A. DUCT DROP (SINGLE LINE)
FUTURE	SUPPLY/O.A. DUCT DROP (DOUBLE LINE)
PIPING	
HEATING WATER SUPPLY	HWS
HEATING WATER RETURN	HWR
CHILLED WATER SUPPLY	CWS
CHILLED WATER RETURN	CWR
CONDENSER WATER SUPPLY	CS
CONDENSER WATER RETURN	CR
COOLING COIL CONDENSATE	COND
REFRIGERANT SUCTION	RS
REFRIGERANT LIQUID	RL
HIGH PRESSURE STEAM	HPS(#)
HIGH PRESSURE STEAM CONDENSATE	HPC
LOW PRESSURE STEAM	LPS(#)
LOW PRESSURE STEAM CONDENSATE	LPC
PUMPED STEAM CONDENSATE	PSC
PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)	
DROP	
RISE	
TEE	
CAP	
REDUCER	
FLOW ARROW	
PUMP	
2-WAY CONTROL VALVE	
3-WAY CONTROL VALVE	
BUTTERFLY VALVE	
BALL VALVE	
CHECK VALVE	
COMBINATION BALANCE/SHUT-OFF VALVE	
TRIPLE DUTY VALVE	
GATE VALVE	
PLUG VALVE	
GLOBE VALVE	
PRESSURE RELIEF VALVE	
PRESSURE REDUCING VALVE	
STRAINER	
DRAIN VALVE WITH HOSE END ADAPTER	
UNION	
AUTOMATIC AIR VENT	
MANUAL AIR VENT	
THERMOMETER	
PRESSURE GAUGE (WITH STOPOCK)	
PRESSURE/TEMPERATURE TEST PLUG	
FLOW SENSOR	
PRESSURE SENSOR	
TEMPERATURE SENSOR	
STEAM TRAP	
METER	
FLEXIBLE CONNECTION	
HEAT TRACED PIPE	
PIPE ANCHOR	
PIPE GUIDE	
EXPANSION JOINT	
ACCESS DOOR	
90 DEGREE FITTING (WITH TURNING VANES)	
DIFFUSER	
SIDEWALL GRILLE/REGISTER/DIFFUSER	
GRILLE/REGISTER	
VOLUME DAMPER	
FIRE DAMPER WITH ACCESS DOOR	
SMOKE DAMPER WITH ACCESS DOOR	
COMB. FIRE/SMOKE DAMPER WITH ACCESS DOOR	
BACKDRAFT DAMPER	
MOTORIZED DAMPER WITH ACCESS DOOR	
AIR FLOW ARROW	
THERMOSTAT (MOUNT 48" AFF TO CENTER UNO)	
HUMIDISTAT (MOUNT 48" AFF TO CENTER UNO)	
MISCELLANEOUS SENSOR	
CO SENSOR	
CO ₂ SENSOR	
CONNECT TO EXISTING	
TERMINAL BOX	

GENERAL NOTES:

- A. THESE NOTES APPLY TO ALL DIVISION 23 DRAWINGS.
- B. ALL HVAC WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES.
- C. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FEES, AND PERMITS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL GENERAL CONDITIONS LISTED ON THE ARCHITECTURAL DRAWINGS.
- D. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIERS REQUIREMENTS, AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONALITY OF THE HVAC SYSTEM INCLUDING ELECTRICAL AND CONTROL ITEMS ASSOCIATED WITH THE MECHANICAL EQUIPMENT.
- F. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF MECHANICAL, PLUMBING, AND EQUIPMENT. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, SIZE AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE.
- G. IN THE EVENT OF A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS THE CONTRACTOR SHALL ADVISE ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH REWORKING, RELOCATING OF EQUIPMENT, SYSTEMS, PIPING, ETC. FROM FAILURE TO PROPERLY COORDINATE INSTALLATION AND NOT ADVISING IN WRITING OF CONFLICT PRIOR TO PURCHASE AND/OR INSTALLATION.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR START-UP OF ALL EQUIPMENT AND SYSTEMS INSTALLED, MODIFIED, OR REVISD BY THIS WORK PER MANUFACTURER'S REQUIREMENTS AND/OR CONTRACT DOCUMENTS.
- I. AT THE END OF CONSTRUCTION, CONTRACTOR SHALL PERFORM A COMPLETE AIR SYSTEM FLOW BALANCE FOR ALL EQUIPMENT AND SYSTEMS SHOWN, SCHEDULED OR OTHERWISE IDENTIFIED. CONTRACTOR SHALL INCLUDE TIME IN CONSTRUCTION SCHEDULE TO FULLY TEST AND BALANCE SYSTEMS PRIOR TO OWNER OCCUPANCY TO ASSURE ADJUSTMENTS CAN BE MADE TO MITIGATE COMFORT ISSUES FOR OCCUPANTS POST CONSTRUCTION.
- J. UPON COMPLETION OF HVAC SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INSTRUCT THE OWNER IN THE COMPLETE OPERATION OF THE SYSTEMS.
- K. PRIOR TO AND DURING CONSTRUCTION, CONTRACTOR SHALL FULLY PROTECT THE AIR HANDLING AND DUCTWORK SYSTEMS. CONTRACTOR SHALL PROTECT EACH RETURN AIR GRILLE OPENING AND RETURN AIR DUCT WITH MINIMUM MERV 8 FILTER MEDIA. AIR HANDLING EQUIPMENT AND DUCTS COVERED WITH DRYWALL/CONSTRUCTION DUST SHALL BE CLEANED AT CONTRACTOR EXPENSE.
- L. THE CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, AND ACCESS LOCATIONS HAVE CLEARANCES IN ACCORDANCE TO THE DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS FOR FULL ACCESSIBILITY AND OPERATION OF MECHANICAL SYSTEMS.
- M. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS, IN WALLS OR CEILING, OR ACCESS DOORS, IN DUCTWORK, AS INDICATED OR REQUIRED FOR ACCESS TO CONCEALED MECHANICAL EQUIPMENT OR DEVICES.
- N. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT NEW SURFACES, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF NEW WORK.
- O. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS FOR EQUIPMENT WITH OTHER TRADES. COORDINATION INCLUDES ALLOWING PROPER CLEARANCE FOR ELECTRICAL DEVICES FURNISHED WITH EQUIPMENT INCLUDING CONTROLS, DISCONNECTS, ETC.
- P. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DEVICES.
- Q. COORDINATE CLOSELY WITH OTHER TRADES IN LOCATING AND INSTALLING ALL SYSTEMS ABOVE SUSPENDED CEILINGS. SPECIFICALLY, COORDINATE LAYOUT WITH ELECTRICAL AND PLUMBING CONTRACTORS TO ALLOW SUFFICIENT ROOM FOR RECESSED LIGHT FIXTURES, FIRE SPRINKLER, AND PLUMBING VENTS WHERE APPLICABLE.
- R. ANNULAR SPACE OF PIPE, CONDUIT, DUCT, AND OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THRU 0-HOUR RATED FLOORS SHALL ALSO BE FIRESTOPPED TO RETARD PASSAGE OF FIRE AND SMOKE. REFER TO FIRESTOPPING SPECIFICATION. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION, LAYOUT, AND FIRE RATINGS OF FLOORS, WALLS, PARTITIONS, AND OTHER BUILDING ELEMENTS.
- U. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FINISHING, AND PENETRATIONS REQUIRED BY THE INSTALLATIONS. ALL FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED TO BE WATERTIGHT. PROVIDE CHROME ESCUTCHEON FOR EXPOSED PIPING PENETRATIONS. CUTTING OF BUILDING CONSTRUCTION MATERIALS SHALL CONFORM TO THE CHARACTERISTICS OF THE PARTICULAR MATERIAL INVOLVED AND SHALL NOT CREATE ANY STRUCTURAL WEAKNESS OR UNSIGHTLY APPEARANCE.
- V. PROVIDE ROOM TEMPERATURE THERMOSTATS FOR ALL UNITS. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS. COORDINATE LOCATION OF THERMOSTATS AND OTHER WALL MOUNTED DEVICES WITH FURNITURE, WALL FRAMING, ELECTRICAL OUTLETS AND DEVICES, AND TECHNOLOGY OUTLETS AND DEVICES PRIOR TO ROUGH-IN.
- W. ALL ROOF AND DECK PENETRATIONS SHALL BE COMPLETED DONE BY THE GENERAL TRADES CONTRACTOR. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE SCOPE OF WORK WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
- X. COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH AREA SMOKE DETECTORS, LIGHTS, AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE CLOSER THAN 3 FEET FROM AN AREA SMOKE DETECTOR.
- Y. BRANCH DUCT TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE. FLEXIBLE DUCT CONNECTION TO THE DIFFUSER SHALL BE NO MORE THAN 5 FEET IN LENGTH. FLEXIBLE DUCT SHALL NOT BE USED FOR ELBOW TO DIFFUSER WITH A FLEXFLOW SUPPORT ELBOW.
- Z. PROVIDE VOLUME DAMPERS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY THE SPECIFICATIONS, AND SHOWN IN TYPICAL DETAILS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS. A VOLUME DAMPER SHALL BE PROVIDED FOR EACH DIFFUSER AND GRILLE IN ORDER TO BALANCE EACH AIR DEVICE INDEPENDENTLY PER SPECIFIED CFM STATED ON DRAWINGS.
- AA. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR, UNLESS NOTED OTHERWISE.
- AB. PROVIDE STRAIGHT INLET AND OUTLET DUCTS PER THE LENGTH THE EQUIPMENT MANUFACTURER RECOMMENDS. FAN INLETS SHALL BE MINIMUM 3 DUCT DIAMETERS OF STRAIGHT DUCT. INSTALL AND SUPPORT MECHANICAL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE CONNECTIONS AND VIBRATION ISOLATION FOR VIBRATING EQUIPMENT UNLESS NOTED OTHERWISE.
- AC. INSTALL AIRFOIL TURNING VANES IN ALL 90 DEGREE ELBOWS EXCEPT TRANSFER DUCTS AND OPEN RETURN AIR BOOTS.
- AD. CONTRACTOR SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION AND STANDARDS" AND OTHER APPLICABLE STANDARDS INCLUDED IN THE SPECIFICATIONS FOR THE CONSTRUCTION AND SUPPORT OF DUCTWORK, UNLESS OTHERWISE NOTED.
- AE. ALL DUCTS SHALL BE RUN ABOVE CEILING. IN GENERAL, KEEP DUCT MAINS NEXT TO UNDERSIDE OF STRUCTURE.
- AF. CHANGES IN HVAC DUCT AND PIPE ELEVATIONS SHALL BE PROVIDED AND BE COORDINATED WITH OTHER SYSTEMS INCLUDING, BUT NOT LIMITED, TO PLUMBING, FIRE PROTECTION, ELECTRICAL, AND BUILDING ELEMENTS SYSTEMS. OFFSET DUCTS INTO JOIST SPACE FOR WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER CONTRACTORS.
- AG. DUCTWORK AND PIPING ON DRAWINGS DOES NOT INDICATE ALL REQUIRED OFFSETS AND FITTINGS. INCLUDE THESE OFFSETS AND FITTINGS TO COORDINATE WITH OTHER CONTRACTORS.
- AH. SECURELY FASTEN ALL DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDES, ANCHORS, AND SWAY BRACES TO MAINTAIN DUCTWORK ALIGNMENT, TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN ON DUCTWORK DUE TO MOVEMENT UNDER OPERATING CONDITIONS. SUPPORTS FOR ALL DUCTWORK SHALL BE IN ACCORDANCE WITH LATEST ANSI AND SMACNA STANDARDS.
- AI. CONTRACTOR SHALL PROTECT THE DUCTWORK TO PREVENT ENTRY OF DIRT AND ANY OTHER FOREIGN MATERIAL DURING THE INSTALLATION.
- AJ. COLOR CODE AND LABEL DUCTWORK IN ACCORDANCE WITH SPECIFICATIONS.
- AK. PROVIDE FLEXIBLE CONNECTIONS FOR ALL VIBRATING EQUIPMENT.
- AL. SEAL ALL DUCT PENETRATIONS THROUGH SMOKE PARTITIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF RATED WALLS AND ADDITIONAL INFORMATION.
- AM. CONTRACTOR SHALL PROVIDE A COMPLETE HVAC INVENTORY TO INCLUDE: MAKE, MODEL, SERIAL NUMBER, LOCATION OR AREA SERVICING, AND AIR FILTER SIZE WITH SUGGESTED MERV # PRIOR TO OPENING THE BUILDING TO THE PUBLIC.
- AN. COORDINATE CLOSELY WITH ALL OTHER TRADE TO ENSURE SERVICEABLE ACCESS TO ALL CONTROLS, MECHANICALS, AND FILTERS.

GENERAL SHEET NOTES

1. REFER TO SHEET H001 FOR GENERAL NOTES.

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MEP Engineer
Advanced Engineering Consultants
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Lighting Design
Zinkon Creative Studio
1222 Hill Rd, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

#	Description	Date
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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

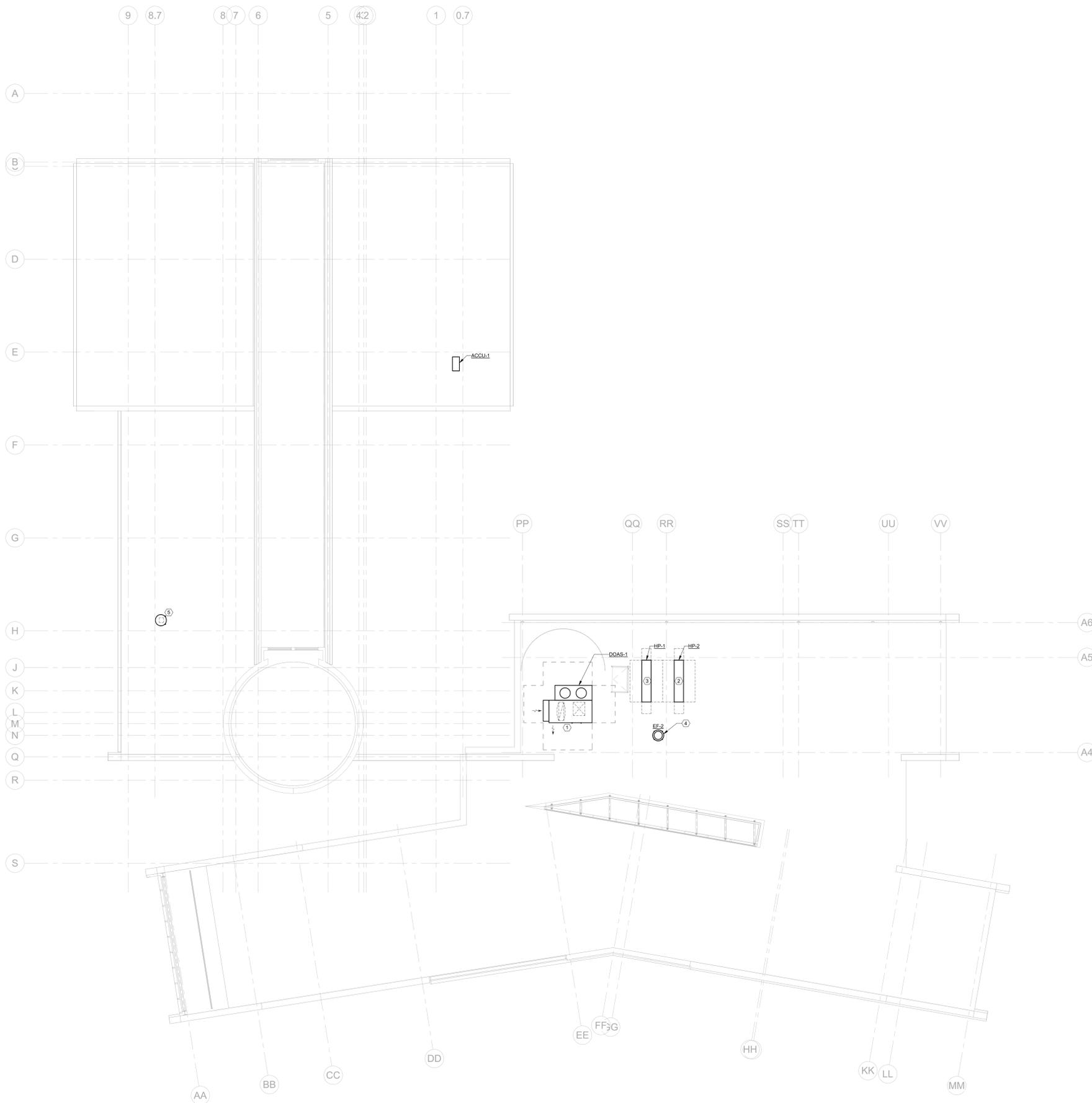
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ROOF PLAN -
HVAC

H102

9/29/2023

22160



1 ROOF PLAN - HVAC
1/8" = 1'-0"

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- Landscape Architect*
MKSK
482 Luthke St. Columbus OH 43215
- Structural Engineer*
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- MEP Engineer*
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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

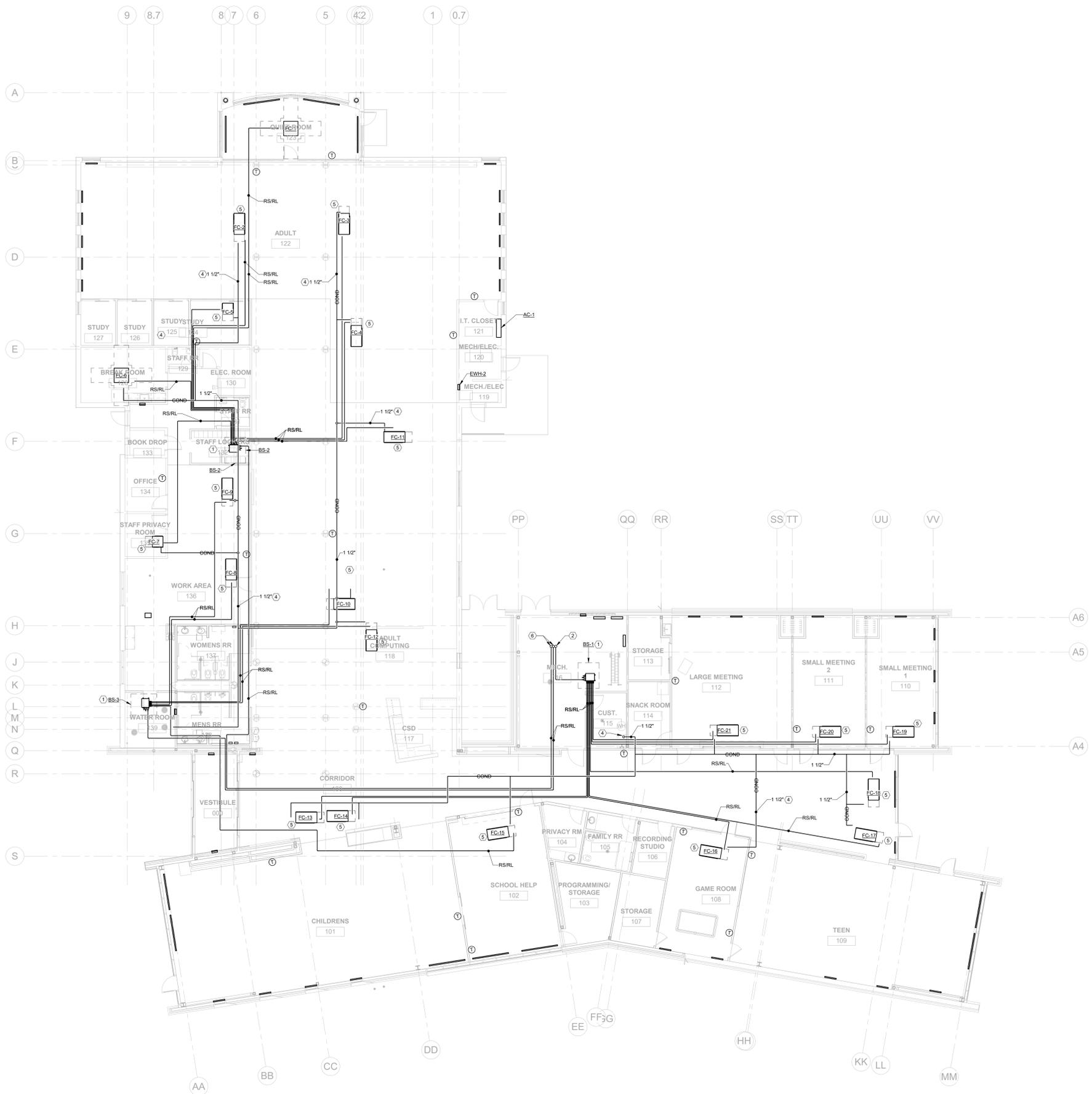
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GENERAL SHEET NOTES

1. REFER TO SHEET H001 FOR GENERAL NOTES.
2. ALL EXPOSED PIPING INSULATION SHALL BE WHITE.
3. REFER TO M701 AND M702 FOR VRF SYSTEM CONFIGURATION AND PIPING DIAGRAMS.
4. REFRIGERANT PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE. ACTUAL PATH AND MISCELLANEOUS EQUIPMENT SHALL BE DESIGNED AS A SYSTEM APPROVED MANUFACTURER SELECTION PROGRAM AND SUBMITTED TO ENGINEER FOR REVIEW. CONTRACTOR SHALL INCORPORATE THE VRF MANUFACTURER'S PIPING AND EQUIPMENT DRAWINGS INTO 1/4 SCALE COORDINATION DRAWINGS AND VERIFY THAT ALL SYSTEM COMPONENTS WILL FIT WITHIN THE FACILITY BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW AND BEFORE FABRICATION COMMENCES. ANY ADDITIONAL EQUIPMENT, ELECTRICAL WORK, ETC., FOR BASIS OF DESIGN WILL BE REQUIRED TO BE PROVIDED AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.
5. PROVIDE CHECK VALVES FOR ALL VRF CONDENSATE DRAIN LINES AFTER PUMP TO PREVENT WATER BACKFLOW INTO UNIT UNLESS CHECK VALVE IS INTEGRAL TO PUMP.
6. ANY STRAIGHT RUN OF REFRIGERANT PIPING OVER 50 FEET NEEDS TO BE EXAMINED FOR ACCOMODATING EXPANSION AND CONTRACTION BY THE CONTRACTOR.

SHEET KEYNOTES

1. PROVIDE REFRIGERANT PIPING AND ROUTE FROM BRANCH SELECTOR TO FAN COIL UNITS. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE REFRIGERANT PIPING AND ROUTE FROM BS-1 TO CU-1. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE CONDENSATE PIPING ABOVE CEILING. REFER TO DETAIL 10/H502 FOR MORE INFORMATION.
4. TERMINATE CONDENSATE PIPING AND DISCHARGE INTO MOP SINK. PROVIDE MINIMUM 2" AIR GAP.
5. PROVIDE CONDENSATE PUMPS FOR FAN COIL UNITS.
6. PROVIDE REFRIGERANT PIPING FROM BS-2 AND BS-3 TO CU-2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
7. ROUTE CONDENSATE PIPING TO FLOOR DRAIN. PROVIDE MINIMUM 2" AIR GAP.
8. PROVIDE ISOLATION BALL VALVES FOR EACH REFRIGERANT PIPING CONNECTION AT THE BRANCH SELECTOR.



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

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**CML Barnett
Branch
Addition/Renovation**

3434 E Livingston Ave.
Columbus, OH 43227

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**FIRST FLOOR
PLAN - HVAC
PIPING**

H201

9/29/2023

22/160

GENERAL SHEET NOTES

1. REFER TO SHEET H001 FOR GENERAL NOTES.

SHEET KEYNOTES

1. PROVIDE REFRIGERANT PIPING ROOF PENETRATION, SEAL, WATERTIGHT.

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Lighting Design
Zirkon Creative Studio
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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

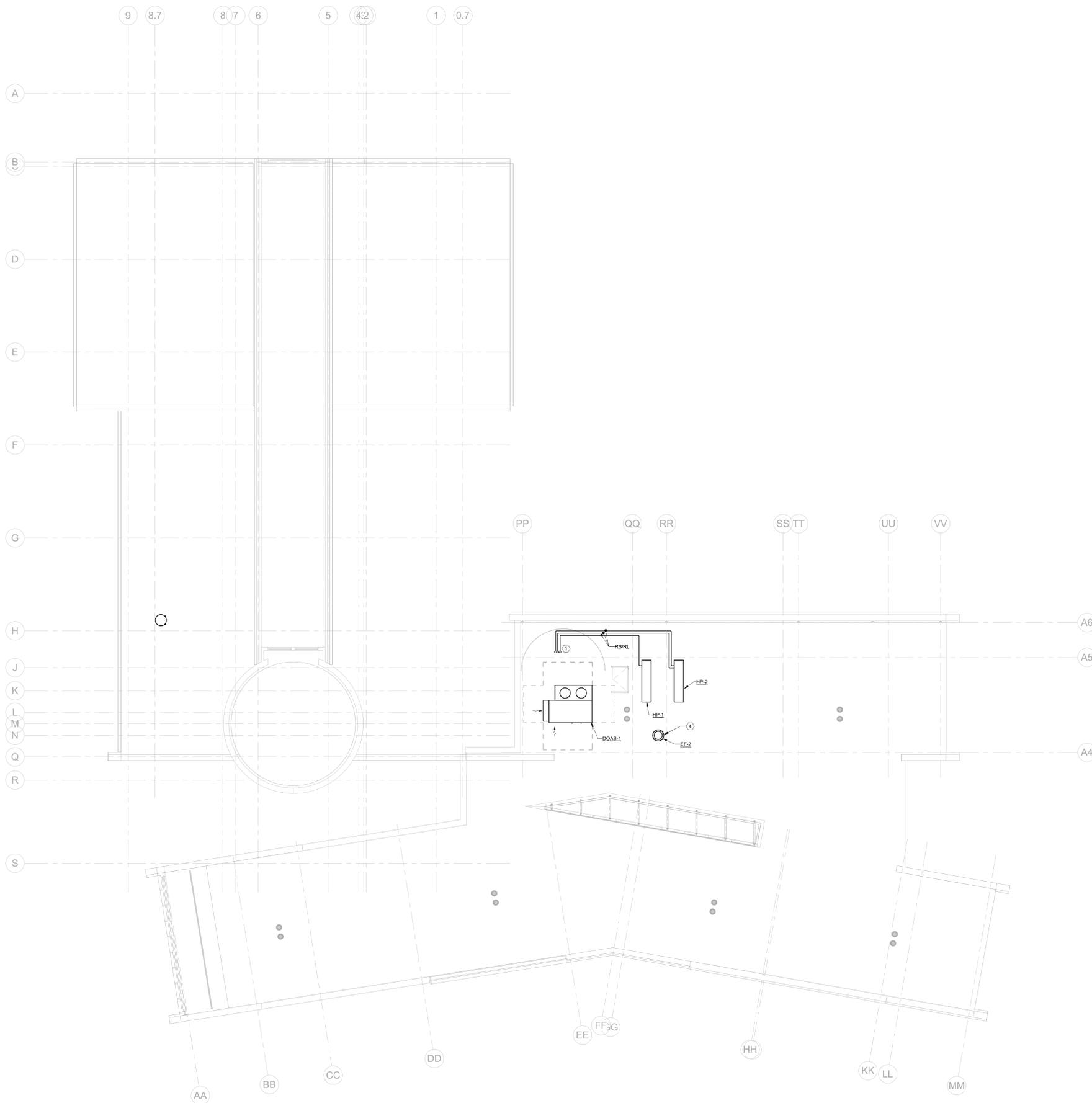
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ROOF PLAN -
HVAC PIPING

H202

9/29/2023

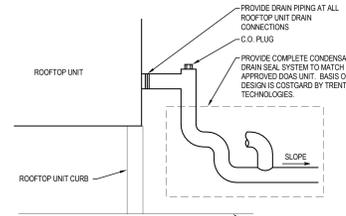
22160



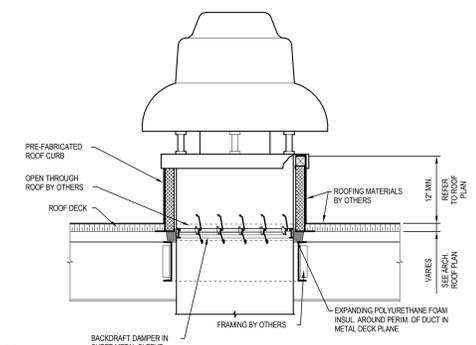
1 ROOF PLAN - HVAC PIPING
1/8" = 1'-0"

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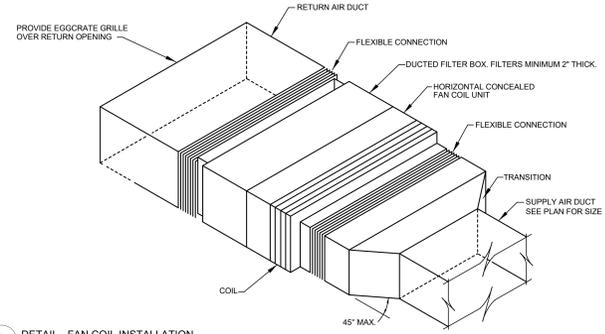
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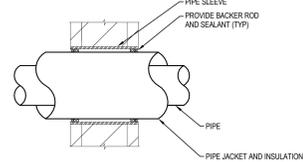
1 DETAIL - ROOFTOP UNIT CONDENSATE DRAIN PIPING
NTS



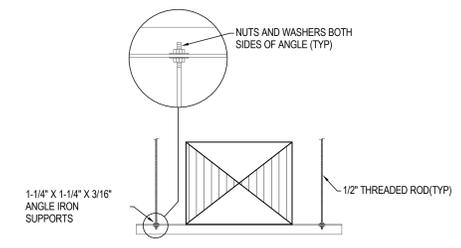
2 DETAIL - ROOF-MOUNTED EXHAUST FAN
NTS



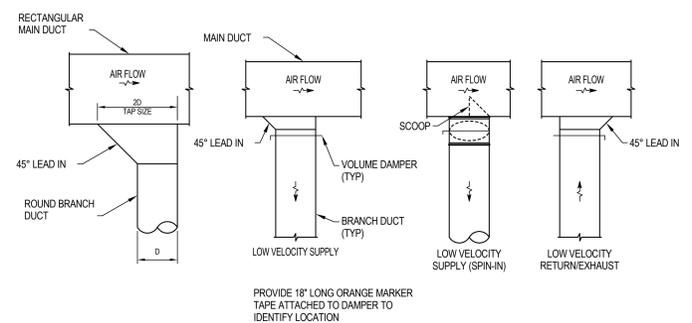
3 DETAIL - FAN COIL INSTALLATION
NTS



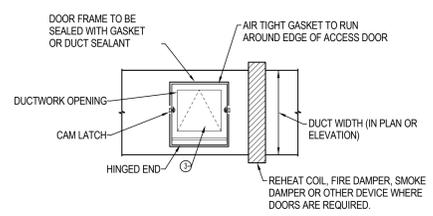
4 DETAIL - PIPING WALL PENETRATION
NTS



5 DETAIL - DUCTWORK HANGER
NTS



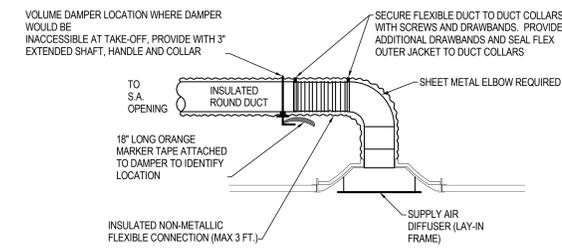
6 DETAIL - TYPICAL DUCT CONNECTIONS (LOW VELOCITY SUPPLY)
NTS



ACCESS DOOR SIZE SCHEDULE	
DUCT WIDTH	ACCESS DOOR SIZE
6" TO 10"	6" x 6" MINIMUM
10" TO 12"	8" x 8" MINIMUM
12" TO 21"	12" x 12" MINIMUM
21" & ABOVE	18" x 18" MINIMUM

- ① ACCESS DOORS TO 16"x16" WHERE DUCT SIZE AND SPACES ALLOWS
- ② FOUR CAM LATCHES ARE REQUIRED
- ③ DOORS TO BE INSTALLED ON SIDE OR BOTTOM OF DUCT WITH BEST ACCESS

7 DETAIL - DUCT ACCESS DOOR
NTS

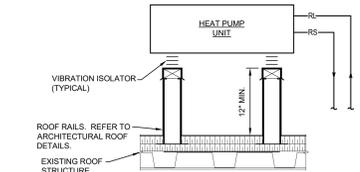


8 DETAIL - DIFFUSER MOUNTING (SUPPLY DUCT CLOSE TO CEILING)
NTS

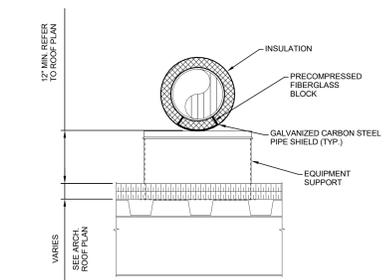
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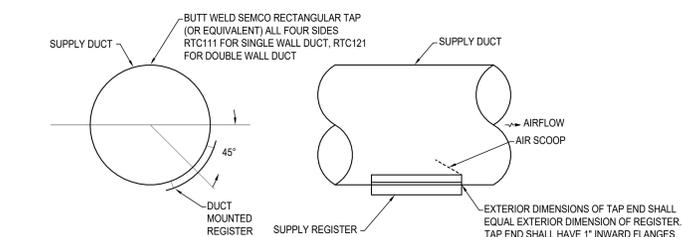
Revision Schedule		
#	Description	Date



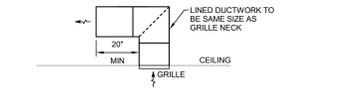
1 DETAIL - HEAT PUMP UNIT
NTS



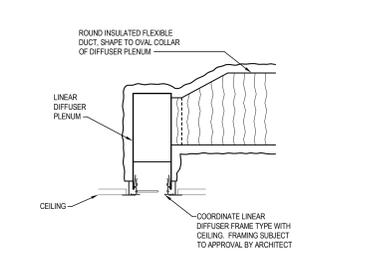
2 DETAIL - PIPE SUPPORT ON ROOF
NTS



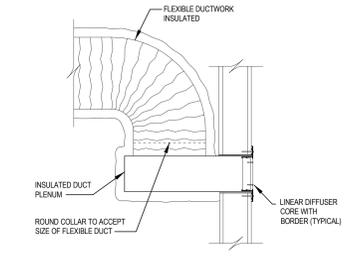
3 DETAIL - DUCT MOUNTED DIFFUSER
NTS



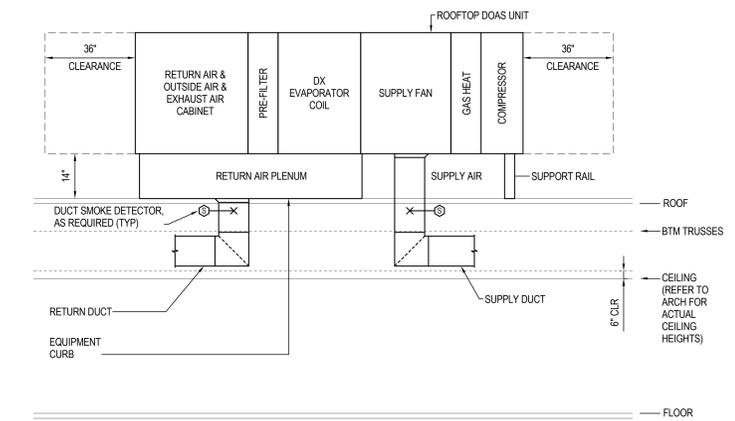
4 DETAIL - RETURN-TRANSFER AIR BOOT
NTS



5 DETAIL - LINEAR DIFFUSER
NTS

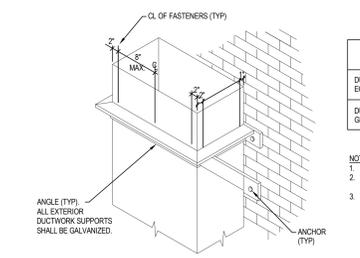


6 DETAIL - SIDEWALL LINEAR DIFFUSER
NTS



7 DETAIL - ROOFTOP DOAS UNIT
NTS

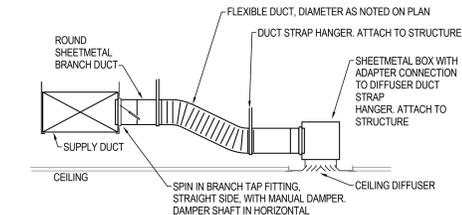
NOTES: A. PROVIDE DOUBLE WALL ACOUSTICAL DUCTWORK WITH PLASTIC INTERIOR LINER OVER THE FIBERGLASS INSULATION FOR THE FIRST 10' OF DUCTWORK.
B. PROVIDE BELL-MOUTH FITTINGS FOR DUCT CONNECTIONS TO PLENUMS.



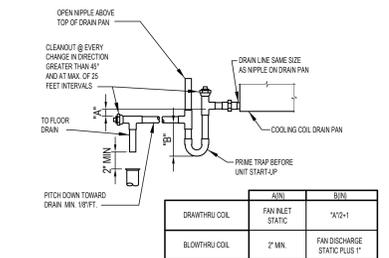
8 DETAIL - VERTICAL DUCT WALL SUPPORTS
NTS

ANGLE BRACKET SIZING	
DUCT CROSS SECTIONAL AREA EQUAL TO OR LESS THAN 650 SQ. IN.	1" x 1" x 1/8"
DUCT CROSS SECTIONAL AREA GREATER THAN 650 SQ. IN.	1-1/4" x 1-1/4" x 1/8"

NOTES:
1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM 2" AWAY FROM WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE:
a. TENSILE LOAD = 38 x DUCT WEIGHT; SAFETY FACTOR 4.
b. SHEAR LOAD = 12 x DUCT WEIGHT; SAFETY FACTOR 4.



9 DETAIL - CEILING REGISTER BOX
NTS



10 DETAIL - CONDENSATE DRAIN TRAP PIPING
NTS

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DEDICATED OUTDOOR AIR UNIT SCHEDULE

EQUIPMENT BASED ON DAIKIN UNLESS NOTED OTHERWISE

UNIT DATA				SUPPLY FAN DATA				EXHAUST FAN DATA				FILTER DATA															
TAG	LOCATION	MODEL	CFM	T.S.P. (IN W.G.)	WHEEL TYPE	HP	DRIVE	CFM	E.S.P. (IN W.G.)	WHEEL TYPE	HP	DRIVE	DESCRIPTION	TOTAL	THICKNESS (IN)	SIZE (IN)	MERV	FACE VEL. (FPM)	A.P.D. (IN W.G.)	DESCRIPTION	TOTAL	THICKNESS (IN)	SIZE (IN)	MERV	FACE VEL. (FPM)	A.P.D. (IN W.G.)	
DOAS-1	ROOF	DPS2015A	2850	3.5	2	FC	4.0	DIRECT	2100	1.25	FC	4	DIRECT	-	6	2	18X24	8	311	0.11	FINAL FILTER	8	2	18X24	8	222	0.09

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT BASED ON QMARK UNLESS NOTED OTHERWISE

UNIT DATA				HEATING ELEMENTS				NOTES
TAG	LOCATION	MODEL	TYPE	TOTAL KW	VOLTS	PHASE	AMPS	
EWH-1	VESTIBULE	AWH	ARCHITECTURAL WALL HEATER	5.0	208	1	14.4	1, 2, 3
EWH-2	MECHANICAL ROOM	AWH	ARCHITECTURAL WALL HEATER	3.0	208	1	14.4	1, 2, 3

NOTES:
 1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
 2. PROVIDE 120V LIGHT IN EACH ACCESSIBLE SECTION WITH SINGLE LIGHT SWITCH.
 3. MODULATING GAS HEAT.
 4. ECM POWERED EXHAUST WITH BAROMETRIC RELIEF DAMPER.
 5. OUTSIDE AIR MEASUREMENT SYSTEM.
 6. HALO GUARDS ON CONDENSERS.
 7. LOW AMBIENT CONTROLS.
 8. PROVIDE 14" TALL INSULATED CURB.
 9. STAINLESS STEEL DRAIN PAN.
 10. MODULATING GAS HEAT WITH 12:1 TURNDOWN.
 11. FIELD POWERED 115V OUTLET.
 12. BACKNETMESH CARD, FACTORY INSTALLED.

FAN SCHEDULE

EQUIPMENT BASED ON GREENECK UNLESS NOTED OTHERWISE

UNIT DATA													
TAG	FUNCTION	MODEL	FAN TYPE	CFM	E.S.P. (IN W.G.)	RPM	DRIVE	TYPE OF DAMPER	SOUND RATING IN dBA	HP	VOLTS	PHASE	NOTES
EF-1	EXHAUST	SG-70	INLINE	450	0.275	1725	DIRECT	BACKDRAFT	49	1/10	120	1	1, 2, 3, 4
EF-2	EXHAUST	C-100MF-VG	ROOF DOWNBLAST	150	0.25	1034	DIRECT	BACKDRAFT	46	1/4	120	1	1, 2, 3, 5

NOTES:
 1. FAN TO RUN CONTINUOUSLY.
 2. PROVIDE GRAVITY BACKDRAFT DAMPER.
 3. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
 4. PROVIDE 24" ROOF CURB.
 5. PROVIDE WITH ROOF CAP.

ELECTRIC BASEBOARD UNIT HEATER SCHEDULE

EQUIPMENT BASED ON INDEECO UNLESS NOTED OTHERWISE

UNIT DATA				HEATING ELEMENTS				NOTES	
TAG	LOCATION	MODEL	TYPE	WATT	LENGTH IN	VOLTS	PHASE		AMPS
EBB-1	SEE DRAWINGS	BM	PEDESTAL	150	300	208	1	2.4	1, 2, 3
EBB-2	SEE DRAWINGS	BM	PEDESTAL	175	875	94	208	4.2	1, 2, 3

NOTES:
 1. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
 2. UNIT WITH INTEGRAL THERMAL CUTOFF.
 3. PROVIDE STANDARD COLOR, TO BE CHOSEN BY ARCHITECT.

DUCTLESS SPLIT SYSTEM SCHEDULE

EQUIPMENT BASED ON DAIKIN UNLESS NOTED OTHERWISE

INDOOR UNIT DATA				INDOOR UNIT EVAPORATOR DATA				HEAT PUMP HEATING		OUTDOOR UNIT DATA				NOTES					
TAG	LOCATION	MODEL	TYPE	MAX CFM	TOTAL MBH	VOLTS	PHASE	MCA	REFRIG. TYPE	SEER	TOTAL MBH	HSPF	TAG		MODEL	VOLTS	PHASE	MCA	MOCP
AC-1	121 I.T. CLOSET	FAQ18TAVJU	WALL MOUNTED	495	18.0	208	1	0.5	R-410A	17.0	NA	NA	ACDU-1	RZR18TAVJUA	208	1	16.5	20	1, 2, 3, 4, 5, 6, 7, 8

NOTES:
 1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCHES (INDOOR AND OUTDOOR UNITS).
 2. PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTAT.
 3. SEPARATE POWER SOURCES FOR INDOOR AND OUTDOOR UNITS.
 4. PROVIDE OUTDOOR UNIT WITH FRONT WIND BAFFLE FOR LOW AMBIENT COOLING OPERATION.
 5. PROVIDE WALL SUPPORTS FOR INDOOR UNIT.
 6. PROVIDE 18" TALL EQUIPMENT STAND FOR OUTDOOR UNIT.
 7. PROVIDE BLUE DIAMOND MAXBLUE CONDENSATE PUMP WITH RESEVOR & SENSOR (285V).
 8. THIS SYSTEM IS COOLING ONLY.

DUCT CONSTRUCTION SCHEDULE

DUCT LOCATION	SHAPE		TYPE	PRESSURE CLASS (IN WG)	LEAKAGE CLASS (CFM PER 100 SF @ 1 IN WG)		MATERIAL		NOTES
	ROUND OR OVAL	RECTANGULAR			UNLINED	GLASS FIBER REINFORCED POLYESTER	ALUMINUM	STAINLESS STEEL TYPE 304	
OUTDOOR AIR OR COMBUSTION AIR DUCT									
Indoors Concealed From View	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
Indoors Exposed to View in Unfinished Space	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
Outdoors	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
SUPPLY AIR DUCT									
Indoors Concealed From View	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
Indoors Exposed to View in Unfinished Space	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
Indoors Exposed to View in Finished Space	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
	X	X	+1	NA	X	X	X	X	
RETURN AIR OR MIXED AIR DUCT									
Indoors Concealed From View	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
Indoors Exposed to View in Unfinished Space	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
Indoors Exposed to View in Finished Space	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
TRANSFER AIR DUCT									
Indoors Concealed From View	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
Indoors Exposed to View in Unfinished Space	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
Indoors Exposed to View in Finished Space	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
	X	X	-1 or +1	NA	X	X	X	X	
CLASS 1 OR 2 EXHAUST AIR DUCT									
Indoors Concealed From View	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
Indoors Exposed to View in Unfinished Space	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	
	X	X	-2 or +2	NA	X	X	X	X	

NOTES:

AIR DEVICE SCHEDULE

EQUIPMENT BASIS OF DESIGN - PRICE OR APPROVED EQUAL

TAG	MODEL	FUNCTION	FACE SIZE	FRAME TYPE	MATERIAL	FINISH	DAMPER	N.C. MAX
D1	SPD	SUPPLY	24" X 24"	LAY-IN	STEEL	WHITE	NONE	25
D2	SDS	SUPPLY	2 SLOTS, 48" LONG	LAY-IN	STEEL	WHITE	NONE	25
G1	500	SUPPLY	NECK SIZE PLUS 1.75"	LAY-IN	STEEL	WHITE	NONE	25
G2	80	RETURN	NECK SIZE PLUS 1.75"	LAY-IN	STEEL	WHITE	NONE	25

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VRF FAN COIL INDOOR UNIT SCHEDULE												
EQUIPMENT BASED ON DAKIN UNLESS NOTED OTHERWISE												
UNIT DATA				PERFORMANCE DATA			MOTOR DATA			FILTER	NOTES	
TAG	MODEL	TONS (APPROX)	TYPE	COOLING CAPACITY (APPROX BTU)	HEATING CAPACITY (APPROX BTU)	MAX CFM	VOLTS	PHASE	MCA	MOCP		(QUANTITY) SIZE
FC-1	FXMQ30TVJU	2.5	CASSETTE	30,000	34,000	1,115	208	1	1.3	15	(1) 12"x10"	1,2,3,4,5,6
FC-2	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-3	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-4	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-5	FXMQ12PBVJU	1	DUCTED FAN COIL	12,000	13,500	450	208	1	1.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-6	FXMQ09TVJU	0.75	CASSETTE	9,500	10,500	440	208	1	0.3	15	(1) 12"x10"	1,2,3,4,5,6
FC-7	FXMQ12PBVJU	1	DUCTED FAN COIL	12,000	13,500	450	208	1	1.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-8	FXMQ30PBVJU	2.5	DUCTED FAN COIL	30,000	34,000	1,100	208	1	2.8	15	(1) 12"x10"	1,2,3,4,5,6
FC-9	FXMQ30PBVJU	2.5	DUCTED FAN COIL	30,000	34,000	1,100	208	1	2.8	15	(1) 12"x10"	1,2,3,4,5,6
FC-10	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-11	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-12	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-13	FXMQ30PBVJU	3	DUCTED FAN COIL	36,000	40,000	1,130	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-14	FXMQ30PBVJU	3	DUCTED FAN COIL	36,000	40,000	1,130	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-15	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-16	FXMQ30PBVJU	2	DUCTED FAN COIL	24,000	18,800	315	208	1	1.8	15	(1) 12"x10"	1,2,3,4,5,6
FC-17	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-18	FXMQ48PBVJU	4	DUCTED FAN COIL	48,000	54,000	1,380	208	1	3.4	15	(1) 12"x10"	1,2,3,4,5,6
FC-19	FXMQ30PBVJU	2.5	DUCTED FAN COIL	30,000	34,000	1,100	208	1	2.8	15	(1) 12"x10"	1,2,3,4,5,6
FC-20	FXMQ30PBVJU	0.75	DUCTED FAN COIL	9,500	10,500	315	208	1	0.6	15	(1) 12"x10"	1,2,3,4,5,6
FC-21	FXMQ30PBVJU	2.5	DUCTED FAN COIL	30,000	34,000	1,100	208	1	2.8	15	(1) 12"x10"	1,2,3,4,5,6

NOTES:
1. PROVIDE UNIT WITH CONDENSATE PUMP AND OVERFLOW SWITCH.
2. PROVIDE BALL VALVES IN REFRIGERANT LINES FOR EQUIPMENT SERVICING. INSTALL IN ACCESSIBLE LOCATIONS.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
4. PROVIDE CONTRACTOR-BUILT FILTER RACK CAPABLE OF HOLDING FILTER SIZES LISTED.
5. PROVIDE DISCHARGE AIR TEMPERATURE SENSOR BY MANUFACTURER (OR BY TEMPERATURE CONTROLS CONTRACTOR IF NEEDED).
6. PROVIDE NEEDLEPOINT BIPOLAR IONIZATION (NPBI) SYSTEM EQUAL TO GLOBAL PLASMA SOLUTIONS MODEL GPS-18B-18 AND ASSOCIATED TRANSFORMER AS REQUIRED FOR 208 VOLT / 1 PHASE.

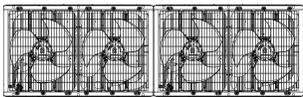
VRF HEAT PUMP OUTDOOR UNIT SCHEDULE										
EQUIPMENT BASED ON DAKIN UNLESS NOTED OTHERWISE										
UNIT DATA			PERFORMANCE DATA				MOTOR DATA			SOUND
TAG	MODEL	TONS (NOMINAL)	REFRIG.	COOLING CAPACITY (NOMINAL MBHR)	HEATING CAPACITY (NOMINAL MBHR)	VOLTS	PHASE	MCA	MOCP	PRESSURE RATING (PSI)
HP-1	REYQ26AAAJA	20	R-410A	243	188	208	1	47.8	50	67
HP-2	REYQ432AAAJA	34	R-410A	405	299	208	1	67.2	70	72

NOTES:
1. INSTALL UNIT ON 12" RAIL SUPPORTS. DO NOT INSTALL UNIT DIRECTLY ON CURB OR ROOF.
2. PROVIDE WITH WIND Baffle.
3. PROVIDE WITH HAL GUARD.
4. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE ELECTRICAL CONNECTION FOR EACH OUTDOOR UNIT.
5. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.

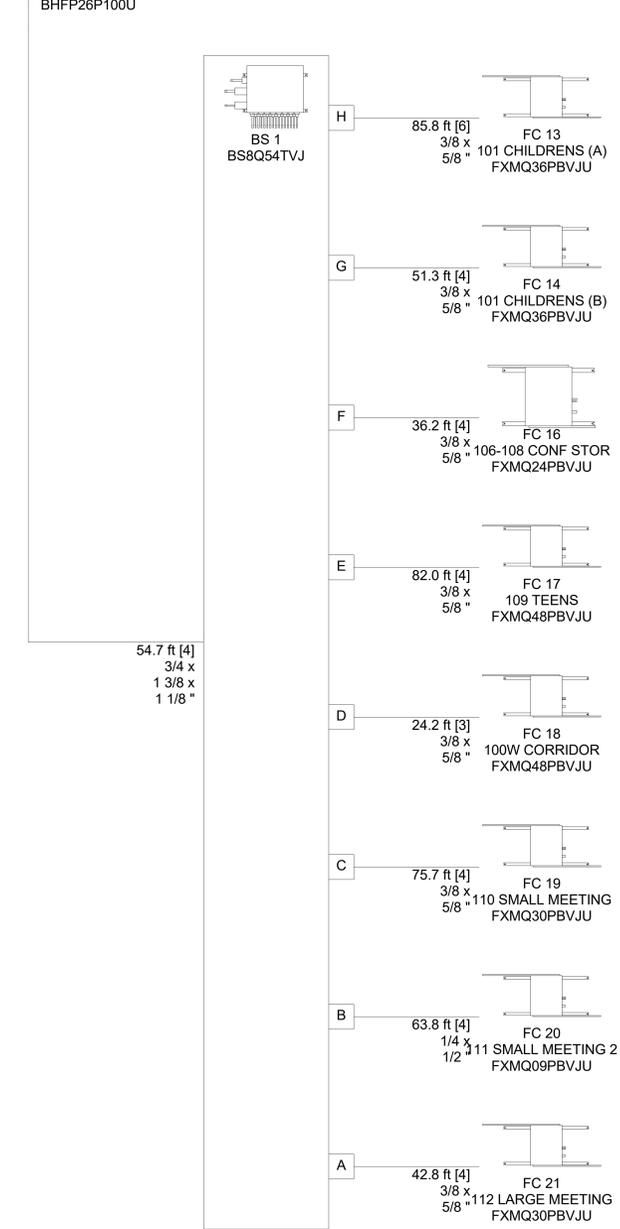
BRANCH SELECTOR BOX SCHEDULE							
EQUIPMENT BASED ON DAKIN UNLESS NOTED OTHERWISE							
TAG	MODEL	SERVICE	VOLT	PH	MCA	WEIGHT (LB)	NOTES
BS-1	BS802HTVJ	CU-1	208	1	0.80	73	
BS-2	BS802HTVJ	CU-2	208	1	0.80	73	
BS-3	BS802HTVJ	CU-2	208	1	0.60	68	

VENTILATION (DOAS-1)										
RM #	NAME	AREA (SQ FT)	PEOPLE	OA CFM PERSON	OA CFM SQ FT	PEOPLE CFM	AREA CFM	Ez	REQ'D OA CFM	ACTUAL OA (MAX)
100	CORRIDOR	4460	0	0	0.06	0	267	1	280	285
101	CHILDRENS	2030	32	5	0.06	160	122	1	282	375
102	SCHOOL HELP	634	30	5	0.06	150	37	1	187	200
103	PROGRAMMING	208	4	5	0.06	20	12	1	32	35
104	PRIVACY ROOM	96	1	5	0.06	5	5	1	10	10
106	RECORDING STUDIO	105	1	5	0.06	5	5	1	10	10
108	GAME ROOM	105	12	5	0.06	60	3	1	63	100
109	TEEN	1370	32	5	0.06	160	82	1	242	325
110	SMALL MEETING ROOM	438	10	5	0.06	50	25	1	75	75
111	SMALL MEETING ROOM	420	10	5	0.06	50	25	1	75	75
112	LARGE MEETING ROOM	735	16	5	0.06	80	44	1	124	135
117	CSD	345	2	5	0.06	10	21	1	31	60
118	ADULT COMPUTING	712	6	5	0.06	30	43	1	73	100
122	ADULT	3310	5	5	0.06	25	198	1	422	425
123	QUIET ROOM	370	7	5	0.06	35	22	1	57	80
124	STUDY	89	2	5	0.06	10	5	1	15	15
125	STUDY	89	1	5	0.06	5	5	1	10	10
126	STUDY	89	1	5	0.06	5	5	1	10	10
127	STUDY	89	1	5	0.06	5	5	1	10	10
128	BREAK ROOM	220	3	5	0.06	15	13	1	28	30
134	OFFICE	100	1	5	0.06	5	6	1	10	10
135	STAFF PRIVACY ROOM	82	1	5	0.06	5	5	1	10	10
136	WORK AREA	1304	4	5	0.06	20	78	1	98	325

ODU 1
REYQ264AATJA
A REYQ144AATJA B REYQ120AATJA

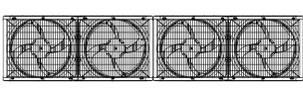


1/2x1 1/8x7/8" 1/2x1 1/8x3/4"

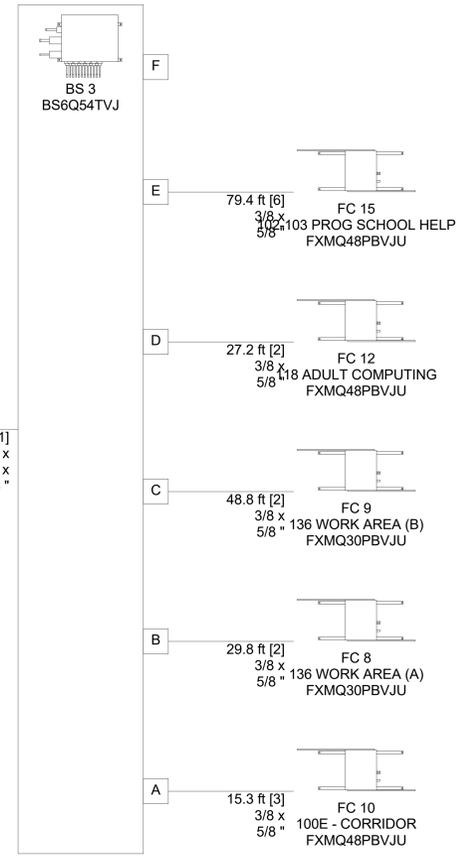
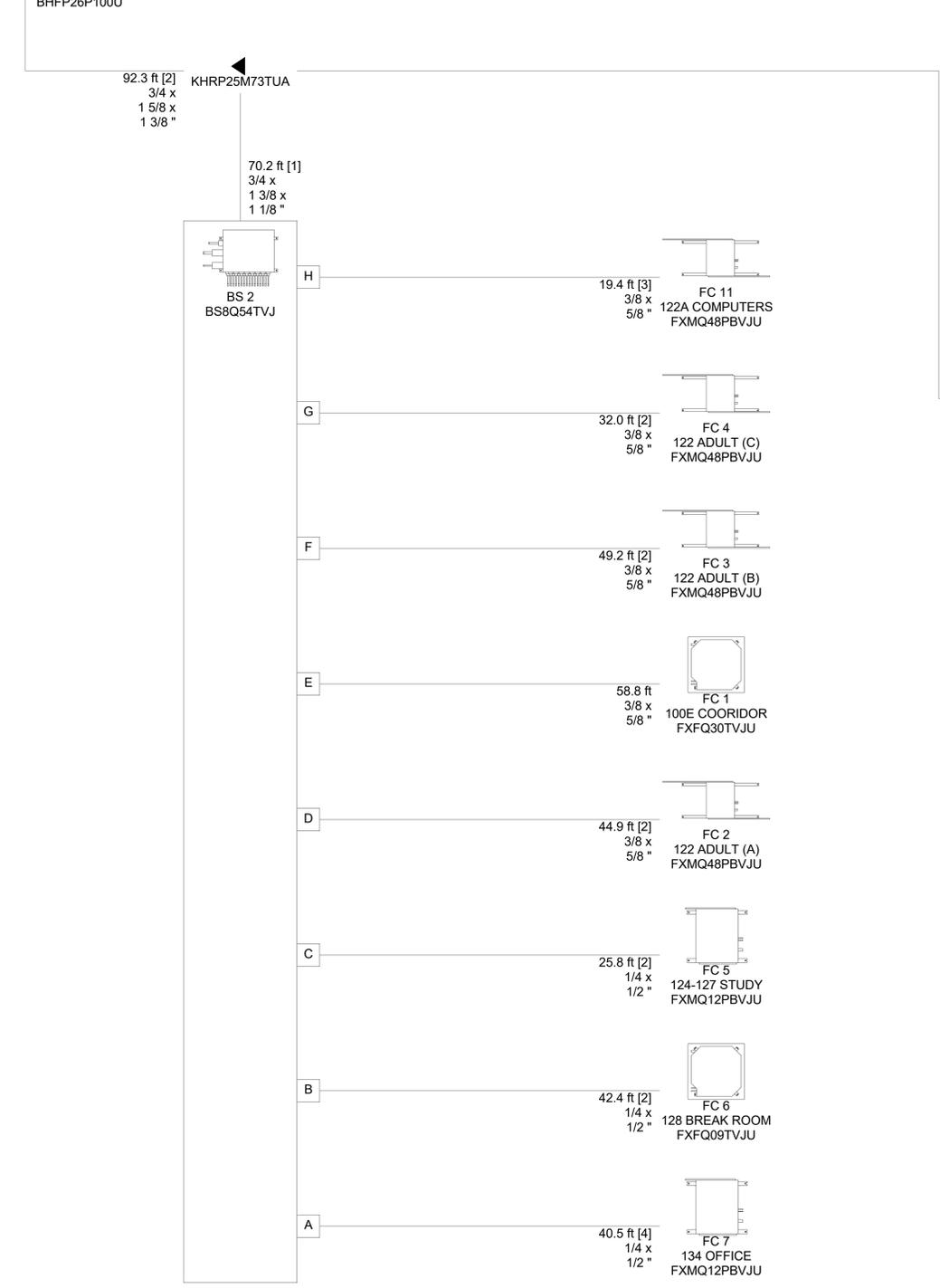


1 DETAIL - CU-1 - PIPING SCHEMATIC
N/S

ODU 2
REYQ432AATJA
A REYQ216AATJA B REYQ216AATJA

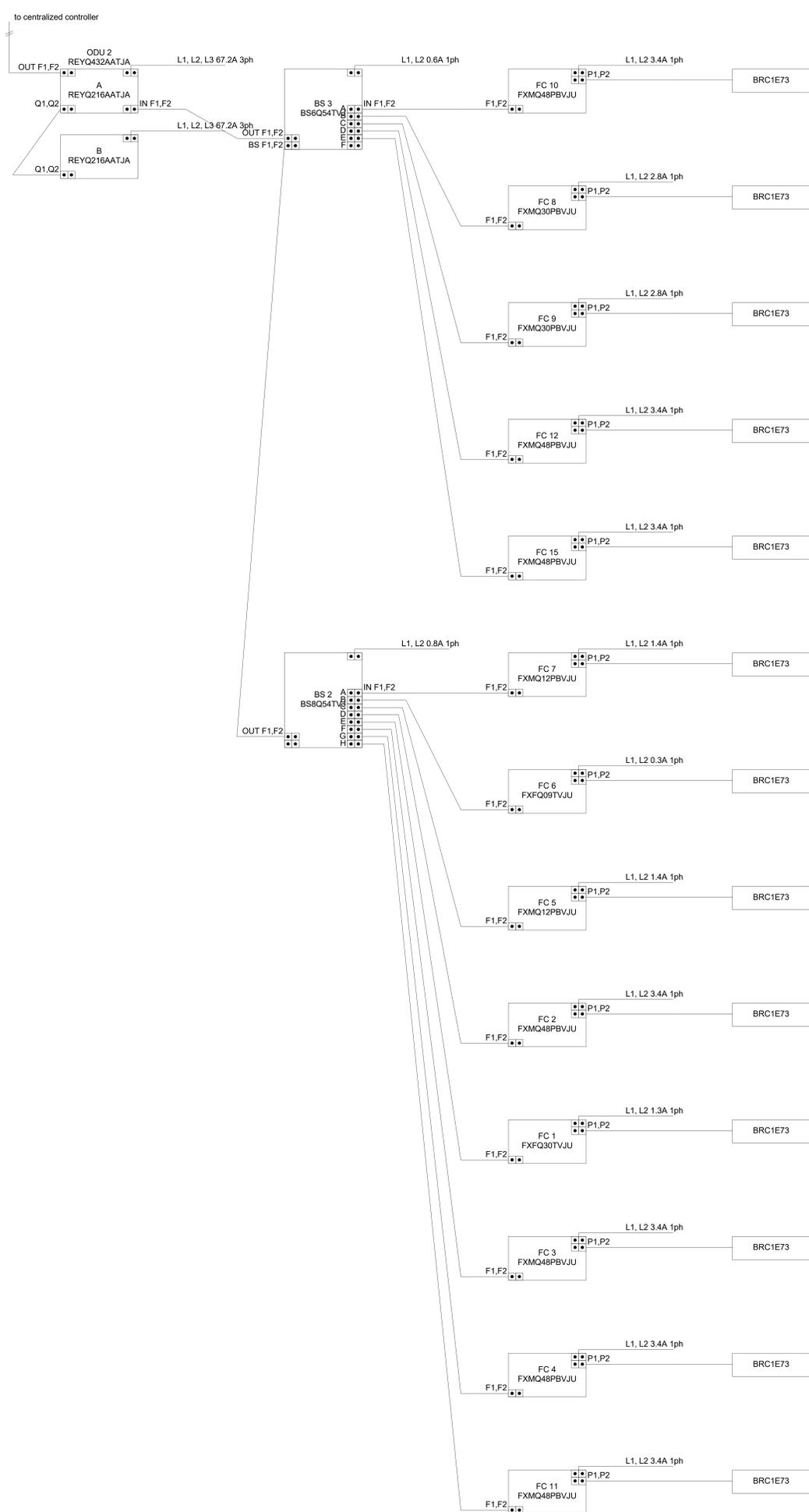
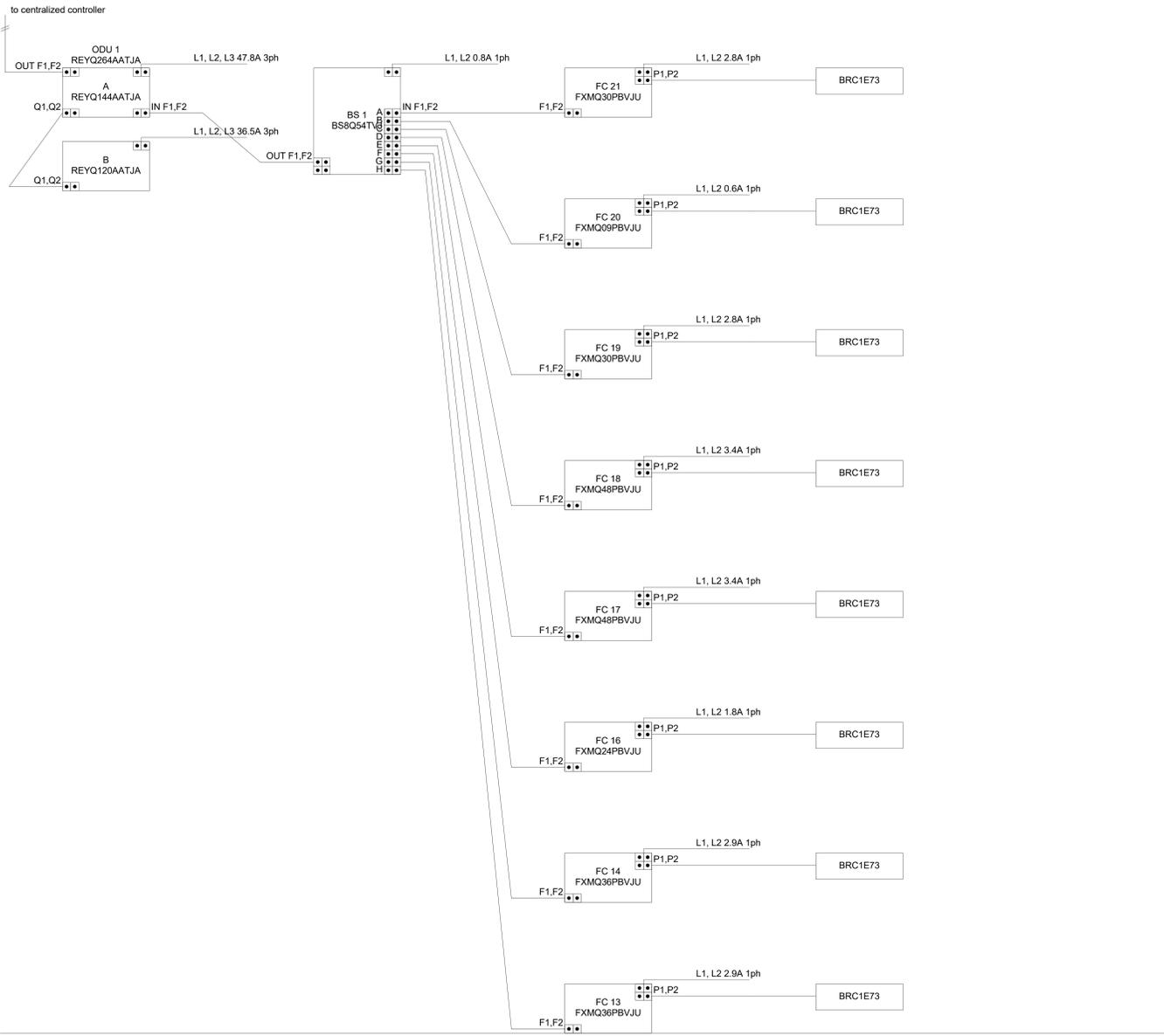


5/8x1 1/8x1 1/8" 5/8x1 1/8x1 1/8"



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Revision Schedule		
#	Description	Date

BUILDING GLOBAL POINTS

Type	Description	Quantity	D	M	A	L	S	G
AI	Outside Air Temperature	1	X			X		X
DI	General Alarm / Smoke Signal (from fire system)	1	X		X			X
PI	Building Electric Meter	1	X		X		X	X

* Quantity to be determined per the associated drawings.

DEDICATED OUTSIDE AIR SYSTEM (DOAS) WITH ERW

- A. Factory mounted discharge air control shall be provided by unit manufacturer. These packaged unit controls shall sequence the DX cooling and gas heat to maintain a discharge air temperature setpoint. Factory controls shall also provide control for economizer, minimum outside air control, and exhaust fan control.
- B. A BAS communications interface shall be provided by the unit manufacturer.
- Wiring and termination of the BAS to the interface shall be provided by the BAS contractor. Final terminations shall be verified by the representative of the unit manufacturer prior to startup.
- C. Safeties
- All controls shall incorporate the following safeties where applicable:
 - Smoke detectors for the unit shall be provided and installed by the Electrical Contractor and interlocked by the Electrical Contractor (unless otherwise specified) to stop the air handling unit fan(s) when smoke is detected (unless otherwise specified).
 - Damper limit switches shall be provided on the exhaust air dampers and shall be interlocked with the exhaust fan. The exhaust fan shall be disabled until the damper is proven open.
- D. Mode control
- The air handling unit shall have a Pre-Occupied, Occupied, and Unoccupied mode of operation.
 - The operating mode shall be automatically initiated through occupied/unoccupied time-of-day schedules or operator commands at the BAS operator workstation.
 - Within each mode the unit shall operate as described below.
- E. Occupied Mode
- Discharge Air Control. The packaged unit controls shall maintain a constant discharge air temperature setpoint of 70° F. The discharge air temperature setpoint shall be adjustable through the BAS.
 - On a call for cooling, the unit's refrigeration controls shall operate to maintain discharge air temperature setpoint.
 - On a call for heat, the unit shall modulate the gas heating section to maintain the discharge air temperature setpoint.
- F. Economizer Mode
- The unit shall be in "economizer mode" when the outside air temperature is between 45 deg and 65 deg. During the "economizer mode" of operation, the heating and cooling functions shall be locked out. If a heat wheel failure is detected, the heating mode shall be enabled.
 - When the outside air temperature is below 45 degrees, the heating mode shall be active. The cooling mode shall remain disabled.
 - When the outside air temperature is above 65 deg, the cooling mode shall be enabled, the heating mode shall remain disabled.
- G. Modulating Hot Gas Reheat
- The unit is provided with fully modulating, sub-cooling, hot gas reheat coil.
 - The controls shall utilize both leaving coil temperature sensor (LCT), and discharge air temperature sensor (DAT).
 - During dehumidification, the refrigeration circuit controls the compressor(s) to maintain the LCT setpoint (adjustable) and the reheat coil is controlled to maintain the supply air reheat setpoint.
 - When a call for both cooling and dehumidification is made, the reheat setpoint is set as the cooling DAT setpoint.
 - During a call for dehumidification only, the reheat setpoint is reset in a linear manner between the min and max reheat setpoints (adjustable). This reset is based on the cooling and heating setpoints for the DOAS unit.
 - Enable dehumidification based on dew point. Dehumidification will be activated when the dew point in the space rises above the dehumidification setpoint.
- H. Unoccupied Control
- During the scheduled unoccupied times, the unit shall be off.
 - Night Setback Heating Control - When any space temperature drops below the unoccupied heating setpoint of 65° F, the unit shall start and continue to run for a minimum of 5 minutes after satisfaction of the space setpoint.
 - Night Setup Cooling Control - When any space temperature rises above the unoccupied cooling setpoint of 85° F, the unit shall start and continue to run for a minimum of 5 minutes after satisfaction of the space setpoint.
- I. Morning Warm-Up
- During the warm-up mode, the unit shall operate similar to the occupied mode with the following exceptions:
 - The discharge air setpoint shall be increased to 95° F.
 - The outside air dampers and exhaust air dampers shall remain fully closed. The recirculation air damper shall remain fully open.
 - The exhaust fan shall remain off. Energy recovery wheel shall be off.
 - Cooling shall be disabled.
 - This mode shall continue until the space reaches its targeted occupied setpoint or the scheduled occupied start time is reached.
- J. Morning Cool-Down
- During the cool down mode, the unit shall operate similar to the occupied mode with the following exceptions:
 - The discharge air setpoint shall be decreased to 55° F.
 - The outside air dampers and exhaust air dampers shall remain fully closed. The recirculation air damper shall remain fully open.
 - The exhaust fan shall remain off. Energy recovery wheel shall be off.
 - Heating shall be disabled.
 - This mode shall continue until the space reaches its targeted occupied setpoint or the scheduled occupied start time is reached.
- K. Discharge Air Temperature (DAT) Reset
- The DAT setpoint may be reset based on outdoor air temperature. A linear relationship between the DAT and the outdoor air temperature will be created for minimum and maximum DAT setpoints. The DAT is to be reset from 62F at an outdoor air temperature of 65F to a temperature of 76F at an outdoor air temperature of 20F. All values shall be adjustable.
- L. Building Pressure Control
- Provide building static pressure transmitter located within the DOAS control panel. Tubing shall be run from the panel to the building pressure pickup location and the outside building reference location. System shall have bidirectional reading capability for positive and negative pressures. The building pressure pickup location shall be located in a location that is not influenced by diffuser supply airflow jets. The outside building reference location shall be on the roof in a location and elevation to negate wind effects. Building pressure setpoint shall be 0.02" (adjustable).

K. System Points:

Type	Description	Quantity	D	M	A	L	S	G
AI*	Outside Air Temperature	1	X					
AI*	Outside Air Humidity	1	X					
***	Unit Enable Command	1	X	X				
***	Unit Mode Status	1	X		X	X		
***	Supply Fan Command	1	X	X				
***	Outdoor Air Flow Measurement	1	X		X	X		
***	Supply Fan Command	1	X	X	X			
***	Supply Fan Status	1	X		X	X		
***	Supply Air Speed Command	1	X	X				
***	Exhaust Air Flow Measurement	1	X					
***	Exhaust Fan Speed Command	1	X	X				
***	Dirty Filter Alarm Status	1	X		X	X		
***	High Static Pressure Cutout	1	X		X	X		
***	Mixed Air Temperature	1	X		X	X		
***	Exhaust Air Damper	1	X		X			
***	Economizer Dampers	1	X	X				
***	Energy Recovery Wheel Command	1	X	X				
***	Energy Recovery Wheel Status	1	X		X	X		
***	DX Cooling Command 1	1	X	X				
***	DX Cooling Command 2	1	X	X				
***	DX Cooling Command 3	1	X	X				
***	DX Cooling Command 4	1	X	X				
***	Heating Command 1	1	X	X				
***	Heating Command 2	1	X	X				
***	Heating Command 3	1	X	X				
***	Heating Command 4	1	X	X				
***	Return Air Temperature	1	X		X	X		
***	Return Air Humidity	1	X		X	X		
***	Return Air CO2	1	X		X	X		
***	Space Temperature	1	X		X	X		
***	Space Humidity	1	X		X	X		
***	Coldest Space Temperature	1**	X		X	X		
***	Warmest Space Temperature	1**	X		X	X		
***	Building Pressure	1	X		X	X		

* Point shared from global points list.
** Determined from all the terminal units served by the air handler.
*** Field verify type available for integration back to BAS system

VARIABLE REFRIGERANT FLOW (VRF) SYSTEM

- A. Factory mounted controls shall be provided by unit manufacturer. These packaged unit controls shall sequence the DX cooling and heating to maintain a space temperature setpoint.
- Each unit's occupancy shall be scheduled through the BAS based on the scheduling requirements of the owner and provide the following:
 - Zone fan shall be on, and unit shall cycle heating or cooling operation during occupied mode
 - Occupant shall not have to select the mode of operation (heating/cooling) for zones that have adjustable space temp control (staff work areas).
 - fan shall be off during unoccupied mode, cycling on as needed to heat/cool
 - VRF points shall be reported to and logged at the BAS. Points include: Discharge Air Temperature, VRF zone temperature, zone temperature set point, VRF cool/heat status, and fan status.
 - The unit shall control the space temperature to the following adjustable space temperature setpoints, as a starting point.
 - Occupied Mode
 - Heating - 72° F
 - Cooling - 75° F
 - Unoccupied Mode
 - Heating - 55° F
 - Cooling - 85° F
- B. Pre-Occupied Mode
- Each VRF unit shall be controlled on its own occupied/unoccupied time schedule as defined at the operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall enter an optimal-start mode to command the unit into the occupied mode early, as required to achieve space setpoint by the normal scheduled occupancy time.
 - Should the space temperature not reach the occupied setpoint before the scheduled occupied time, or reach the setpoint too early, the adaptive optimal start sequence shall automatically adjust itself for subsequent starts.
- C. A BAS communications interface shall be provided by the unit manufacturer.
- Wiring and termination of the BAS to the interface shall be provided by the BAS contractor. Final terminations shall be verified by the representative of the unit manufacturer prior to startup. All points available through the communications interface shall also be monitored and/or commanded

UNIT HEATERS

- A. When the outside air temperature is below 45 deg, a wall mounted line voltage thermostat shall cycle the fan and electric heating coil to maintain its adjustable setpoint. Heater shall be locked out when outside air temperature is above 45 deg.
- B. The building automation system shall control the space temperature to 60 deg (adj).

C. System Points:

Type	Description	Quantity	D	M	A	L	S	G
AO	Space Temperature Setpoint	1 per htr	X	X				
DO	Heater/OA Lockout Command	1	X	X				

BASEBOARD HEATERS

- A. Baseboard heaters shall operate as a second stage of heat (Fan Coils shall be first stage of heat).
- B. When a nearby Fan Coil zone drops more than 2 deg below the zone heating setpoint, activate baseboard heater.
- C. Heater shall be locked out if nearby Fan Coil is in cooling mode as determined by the zone temperature and the setpoint.
- D. Heater shall be locked out if outside air temperature is above 55 deg F (adjustable).

EXHAUST FANS

- A. Misc. exhaust fans including all toilet exhaust fans shall be controlled in conjunction with the occupied/unoccupied condition of the air handling unit or zoned area in which the fan is located.
- B. Other fans (as noted in the Fan Schedule on the Drawings) shall be controlled via switch or timer, installed by the Electrical Contractor.
- C. A motor current operated switch shall input fan status to a DDC panel for ALL exhaust fans.
- D. System Points:
- | Type | Description | Quantity | D | M | A | L | S | G |
|------|--|------------|---|---|---|---|---|---|
| DO | Exhaust Fan Command | 1 per fan* | X | X | | | | |
| DI | Exhaust Fan Status | 1 per fan | X | | X | X | | |
| AI | Mechanical/Electrical Room Temperature | 1 | X | | X | X | | |
| AI | Main Mechanical Room Temperature | 1 | X | | X | X | | |
| DO | Main Mechanical Room Intake Damper Command | 1 | X | X | | | | |
- * As noted in the Fan Schedule on the Drawings

BUILDING LIGHTING

- A. The building exterior lighting shall be controlled on a time schedule as defined at the operator workstation. Interior lighting shall be controlled directly by the lighting control system. Lighting data and control points shall be accessible through the communications interface provided with the lighting control panel.

B. System Points:

Type	Description	Quantity	D	M	A	L	S	G
DO	Lighting Command	1 per circuit or zone	X	X				

UTILITY METERING

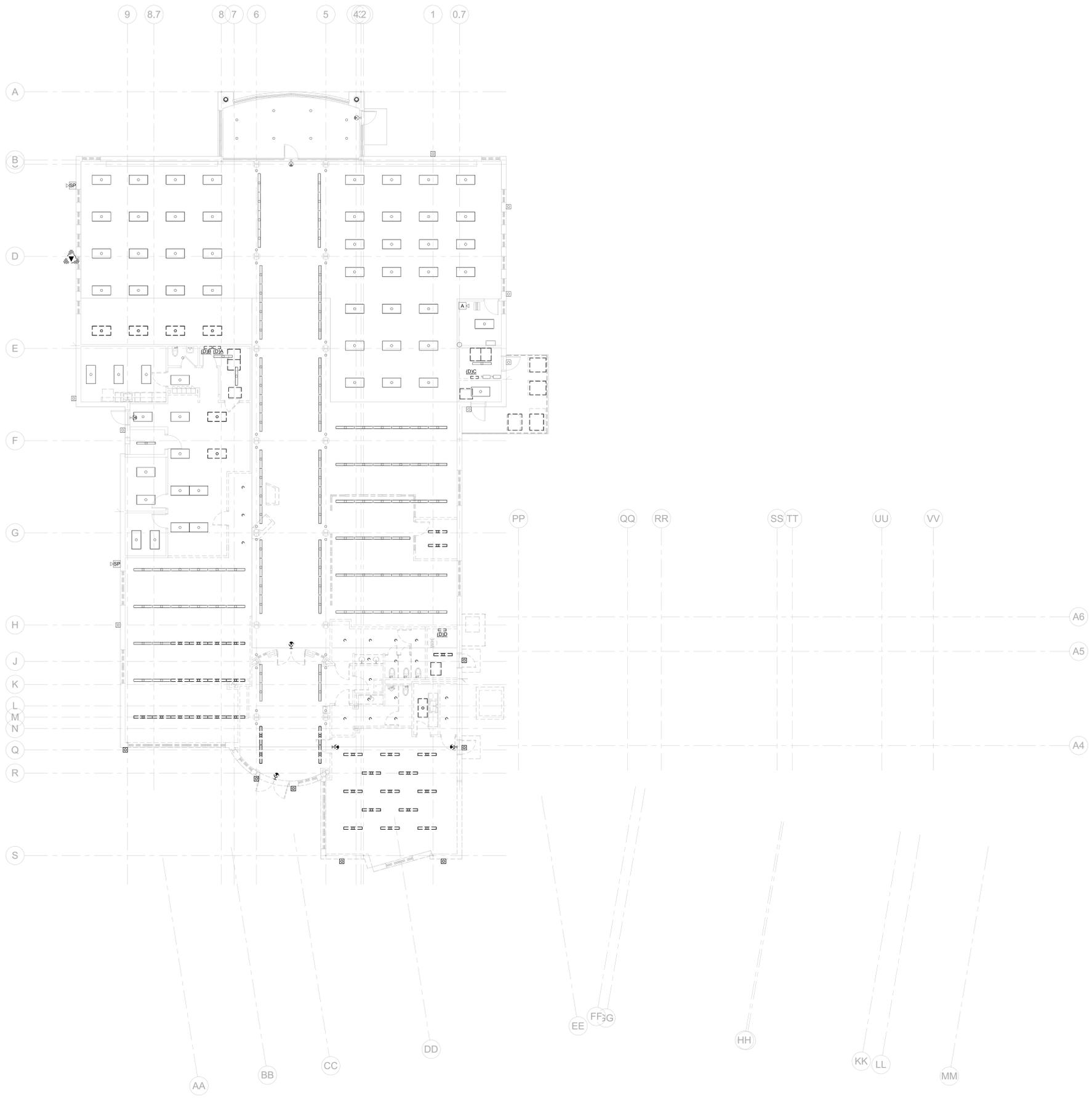
- A. Integrate Gas Meter reading with Building Automation System.
- B. Integrate Water Meter reading with Building Automation System.
- C. Integrate Electric Meter reading with Building Automation System.
- D. Monitor Elevator Sump Pump level through the Building Automation System.
- E. Monitor Domestic Water circulation pump status through the Building Automation System.

GENERAL SHEET NOTES

1.

SHEET KEYNOTES

1.



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

Consultants:

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- Landscape Architect
MKSK
482 Luthke St. Columbus OH 43215
- Structural Engineer
SMBH
1188 Oakley Rd. Suite 200, Columbus OH 43215
- MEP Engineer
Advanced Engineering Consultants
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- Lighting Design
Zinkon Creative Studio
1222 Hill Rd. Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

#	Description	Date
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CML Barnett
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FIRST FLOOR
PLAN -
ELECTRICAL -
DEMOLITION

ED101

9/29/2023

22160

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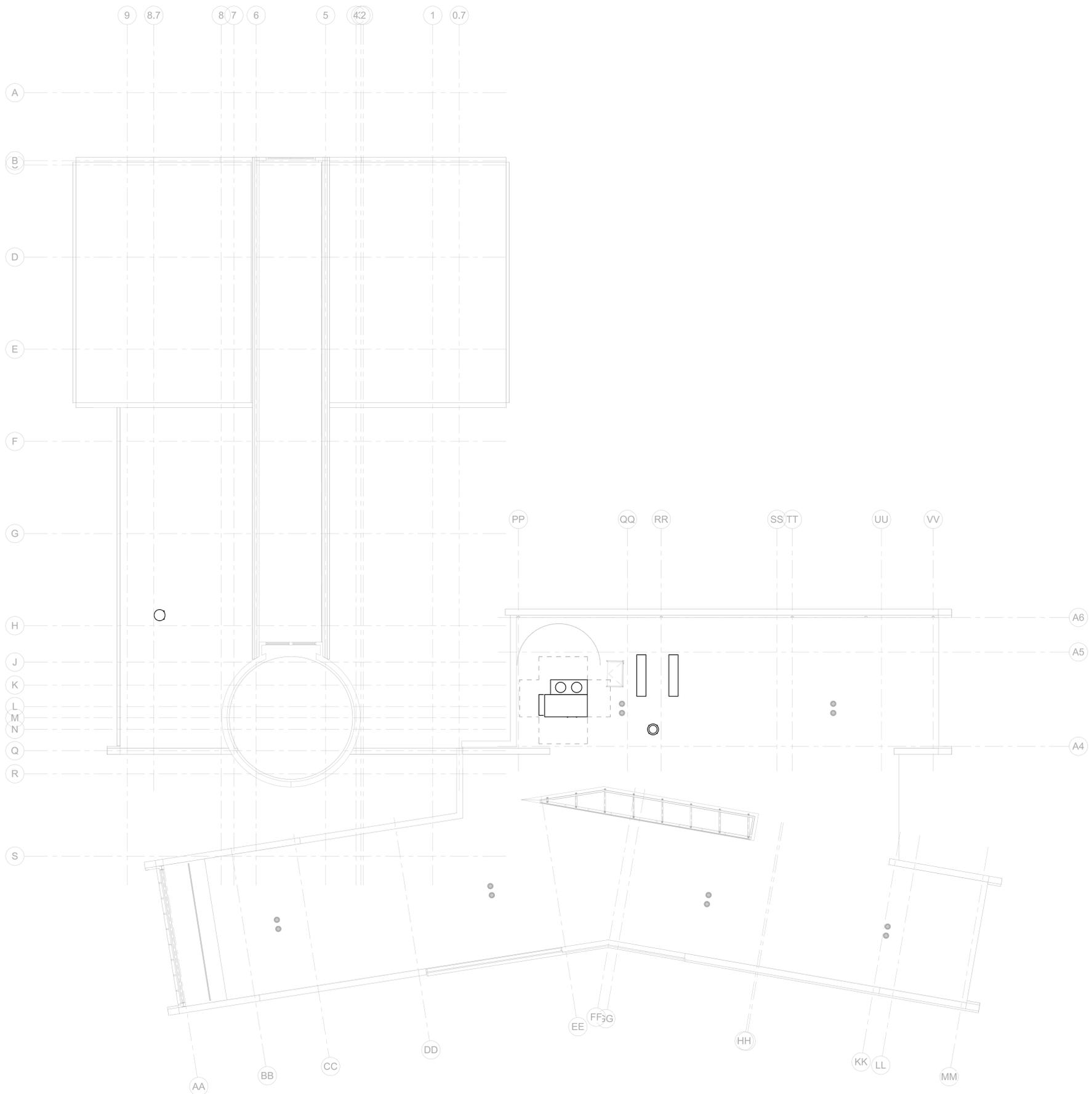
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GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. -



1 ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

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Revision Schedule

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ROOF PLAN -
ELECTRICAL -
DEMOLITION

ED102

9/29/2023

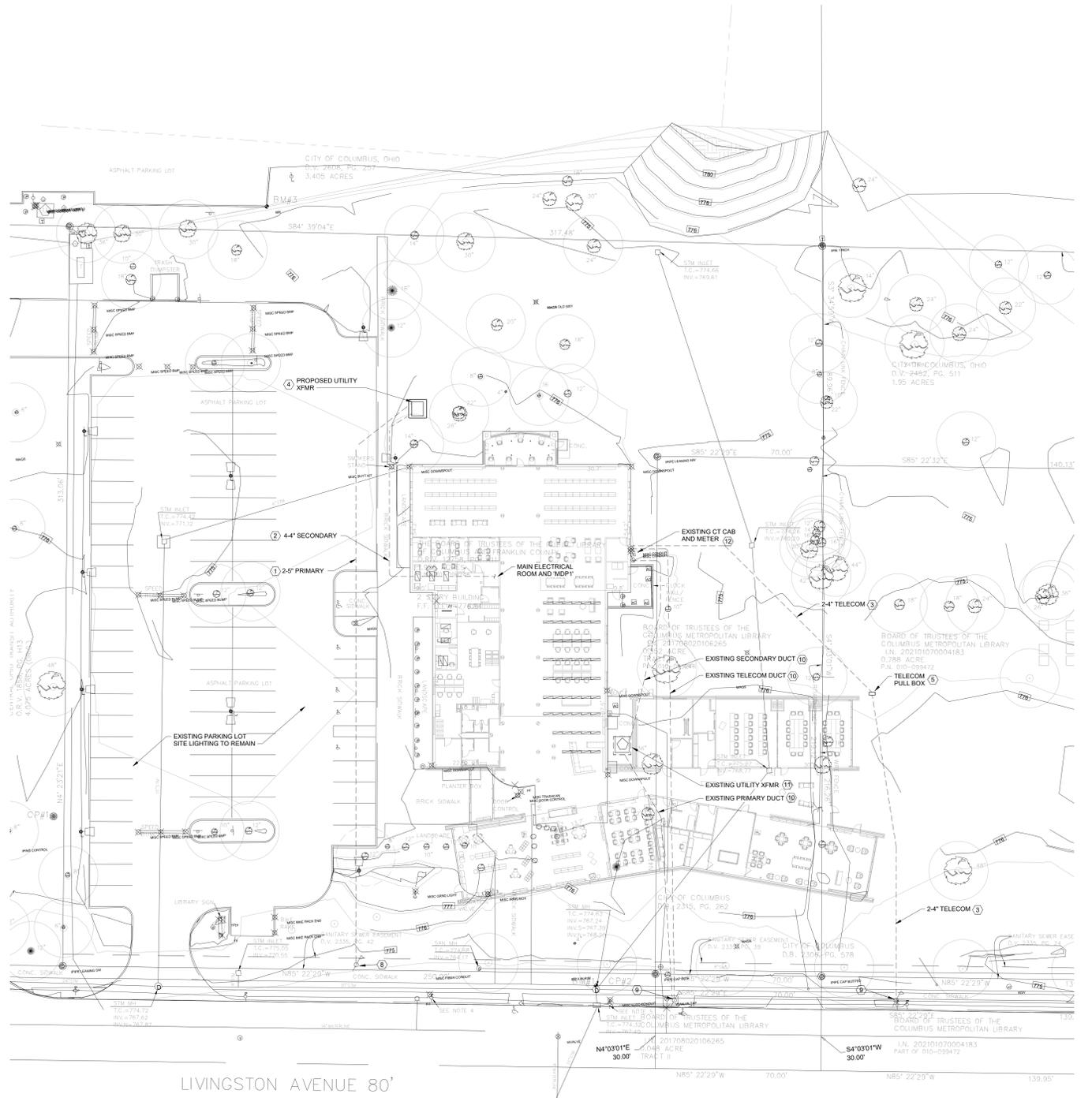
22160

GENERAL SHEET NOTES

A. MINIMUM SIZE FOR ALL SITE CONDUIT SHALL BE 1.25", UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

- ENCASED PRIMARY DUCT BANK FROM NEW UTILITY POLE. LOCATED WITHIN RW. REFER TO DUCT BANK DETAIL 1E501. CONDUCTORS AND TERMINATIONS SHALL BE BY THE UTILITY COMPANY. COORDINATE LOCATION WITH NEARBY STORM AND WATER SERVICE.
- SECONDARY ENCASED DUCT BANK. REFER TO DUCT BANK DETAIL 1E501. CONTRACTOR SHALL PROVIDE CONDUCTORS AND TERMINATION. CONDUIT COUNT SHOWN INCLUDES REQUIRED SPARES.
- TELECOM DUCT BANK, ENCASED. REFER TO DUCT BANK DETAIL 1E501.
- UTILITY XFMR PAD SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS. REFER TO DETAIL XXX. COORDINATE WITH DOP WHO WILL FURNISH AND INSTALL TRANSFORMER.
- GROUND MOUNTED PULL BOX 17" X 30" QUAZITE PG STYLE. REFER TO DETAIL XXX.
- EV CHARGING STATION.
- PROVIDE KNOX REMOTE POWER BOX AT 60" A.F.G. WITH EMERGENCY STOP BUTTON FOR EV CHARGERS. EMERGENCY STOP SHALL TRIGGER SHUNT TRIP IN BREAKER SERVING CHARGING UNITS. PROVIDE 120V CIRCUIT BETWEEN ESTOP AND EV CHARGER BREAKERS.
- PROPOSED COLUMBUS DOP UTILITY POLE LOCATED IN RW. POLE TO SERVE AS PRIMARY RISER.
- EXISTING UTILITY POLE.
- REMOVE OR ABANDON EXISTING U/G PRIMARY/SECONDARY DUCT BANK AND TELECOM DUCT BANK.
- COORDINATE WITH COLUMBUS DOP TO DISCONNECT EXISTING BUILDING ELECTRICAL SERVICE AND HAVE TRANSFORMER REMOVED. DEMO EXISTING TRANSFORMER PAD AND PRIMARY/SECONDARY DUCT BANKS.
- COORDINATE WITH COLUMBUS DOP TO DISCONNECT EXISTING BUILDING ELECTRICAL SERVICE. DEMO EXISTING CT CABINET AND UTILITY METER.



1 FIRST FLOOR PLAN - ELECTRICAL
1" = 20'-0"

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HDA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTO	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	METAL HALIDE
MFS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECPT	RECEPTACLE
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF, NEMA 3R UNO
XFMR	TRANSFORMER
Z	IMPEDANCE
∅	PHASE

LIGHTING SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	GENERAL PURPOSE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	GENERAL PURPOSE LUMINAIRE ON EMERGENCY POWER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	GENERAL PURPOSE DUAL BALLAST LUMINAIRE ONE BALLAST ON EMERGENCY POWER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	ROUND LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL WASHER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED DECORATIVE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED FLOOD LIGHT: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	TRACK LIGHTING
	TRACK LIGHTING HEAD
	REMOTE HEAD
	STEP LIGHT
	EMERGENCY LIGHT
	EXIT SIGN
	CEILING MOUNTED ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EXIT SIGN WITH INTEGRAL HEADS
	SWITCH: X=BLANK-SINGLE POLE 20A, TOGGLE; X=3 THREE WAY, X=4 FOUR WAY, X=P-PLOT LIGHT, X=K-KEY, X=MS-MOMENTARY
	WALL MOUNTED OCCUPANCY SENSOR: X=BLANK-DUAL TECHNOLOGY; X=IR-PASSIVE INFRARED; X=US-ULTRASONIC
	CEILING MOUNTED OCCUPANCY SENSOR: X=BLANK-DUAL TECHNOLOGY; X=IR-PASSIVE INFRARED; X=US-ULTRASONIC
	DIMMER
	POWER PACK
	JUNCTION BOX
	PANELBOARD
	LIGHTING CONTROL PANEL
	LOW VOLTAGE TRANSFORMER

POWER SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	20A DUPLEX RECEPTACLE WITH COVER PLATE: X=TYPE, Y=NON-STANDARD MOUNTING HEIGHT, Z=SPECIAL DESIGNATION, (18" AFF TYPICAL)
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT WITH COVER PLATE: X=TYPE, Y=NON-STANDARD MOUNTING HEIGHT, Z=SPECIAL DESIGNATION, (18" AFF TYPICAL)
	FLOOR OR CEILING MOUNTED DUPLEX RECEPTACLE: F=FLOOR, C=CEILING
	DUPLEX RECEPTACLE ABOVE COUNTER (48" AFF TYPICAL)
	DOUBLE DUPLEX RECEPTACLE WITH SINGLE COVER PLATE
	SIMPLEX RECEPTACLE WITH COVER PLATE
	WEATHER RESISTANT DUPLEX RECEPTACLE: GROUND FAULT CIRCUIT INTERRUPTING WITH INUSE COVERS
	WALL MOUNTED SPECIAL RECEPTACLE: REFER TO PLANS FOR ADDITIONAL INFORMATION
	FLOOR OR CEILING MOUNTED SPECIAL RECEPTACLE: F=FLOOR, C=CEILING REFER TO PLANS FOR ADDITIONAL INFORMATION
	SURFACE MOUNTED RACEWAY
	STANDARD DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=NUMBER OF POLES
	STANDARD FUSED DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH: X=STARTER SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
	MOTOR (BY OTHERS): PROVIDE POWER AS INDICATED
	UTILITY METER
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER
	JUNCTION BOX
	TRANSFORMER
	HANDHOLE/POLE BOX: SEE DETAILS FOR ADDITIONAL INFORMATION
	CONTROL PANEL
	SURGE PROTECTIVE DEVICE
	PANELBOARD
	AUTOMATIC TRANSFER SWITCH
	VARIABLE FREQUENCY DRIVE (BY DIVISION 23)
	PUSH BUTTON
	POWER POLE
	CORD REEL
	GROUND ROD
	POKE THROUGH SERVICE FITTING: X=TYPE

FIRE ALARM SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	MANUAL PULL STATION (48" TO HANDLE OF DEVICE)
	HEAT DETECTOR
	DUCT MOUNTED HEAT DETECTOR
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	SPEAKER (80" AFF TO BOTTOM OF DEVICE)
	SPEAKER WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
	HORN (80" AFF TO BOTTOM OF DEVICE)
	HORN WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
	STROBE (80" AFF TO BOTTOM OF DEVICE)
	WALL MOUNTED STROBE (80" AFF TO BOTTOM OF DEVICE)
	BELL, 120V
	WATER FLOW SWITCH: DIVISION 28 TO PROVIDE
	WATER TAMPER SWITCH: DIVISION 28 TO PROVIDE
	PIV VALVE
	ADDRESSABLE INPUT-OUTPUT MODULE
	ISOLATION MODULE
	MAGNETIC DOOR HOLDER
	FIREMAN'S PHONE
	REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (80" AFF TO CENTERLINE)
	WALL MOUNTED REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (80" AFF TO CENTERLINE)
	REMOTE INDICATOR TEST SWITCH
	FAN SHUT-DOWN RELAY
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	NOTIFICATION APPLIANCE CIRCUIT PANEL

LINE TYPE LEGEND	
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK

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Design Development Submittal
10/09/2023

Revision Schedule		
#	Description	Date

CML Barnett
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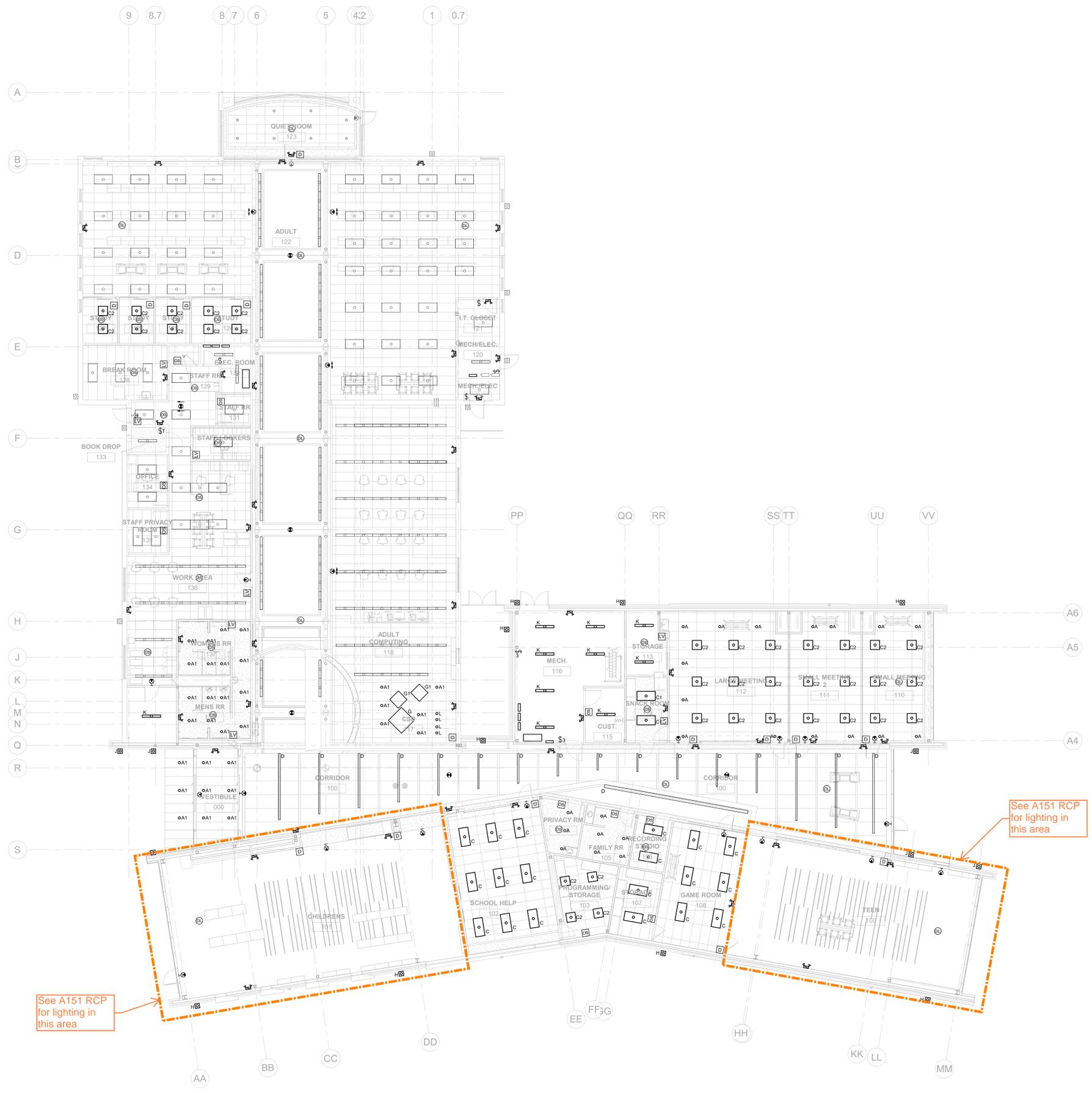
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Columbus, OH 43227

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GENERAL
INFORMATION -
ELECTRICAL

E001
9/29/2023

Revision Schedule		
#	Description	Date



See A151 RCP for lighting in this area

See A151 RCP for lighting in this area

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

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FIRST FLOOR
PLAN - LIGHTING

E101

9/29/2023

22160

GENERAL SHEET NOTES

- PANEL TO BE REPLACED IN KIND. EXISTING BRANCH CIRCUITS TO BE MAINTAINED AND REFERED TO NEW PANELBOARD. REFER TO ONE LINE DIAGRAM.
- CONTRACTOR SHALL EXCAVATE EXISTING SLAB FOR NEW SECONDARY LATERAL BENEATH THE SLAB. COORDINATE WITH OTHER UTILITIES.

SHEET KEYNOTES



ARCHITECTURE. INSPIRED.

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MEP Engineer
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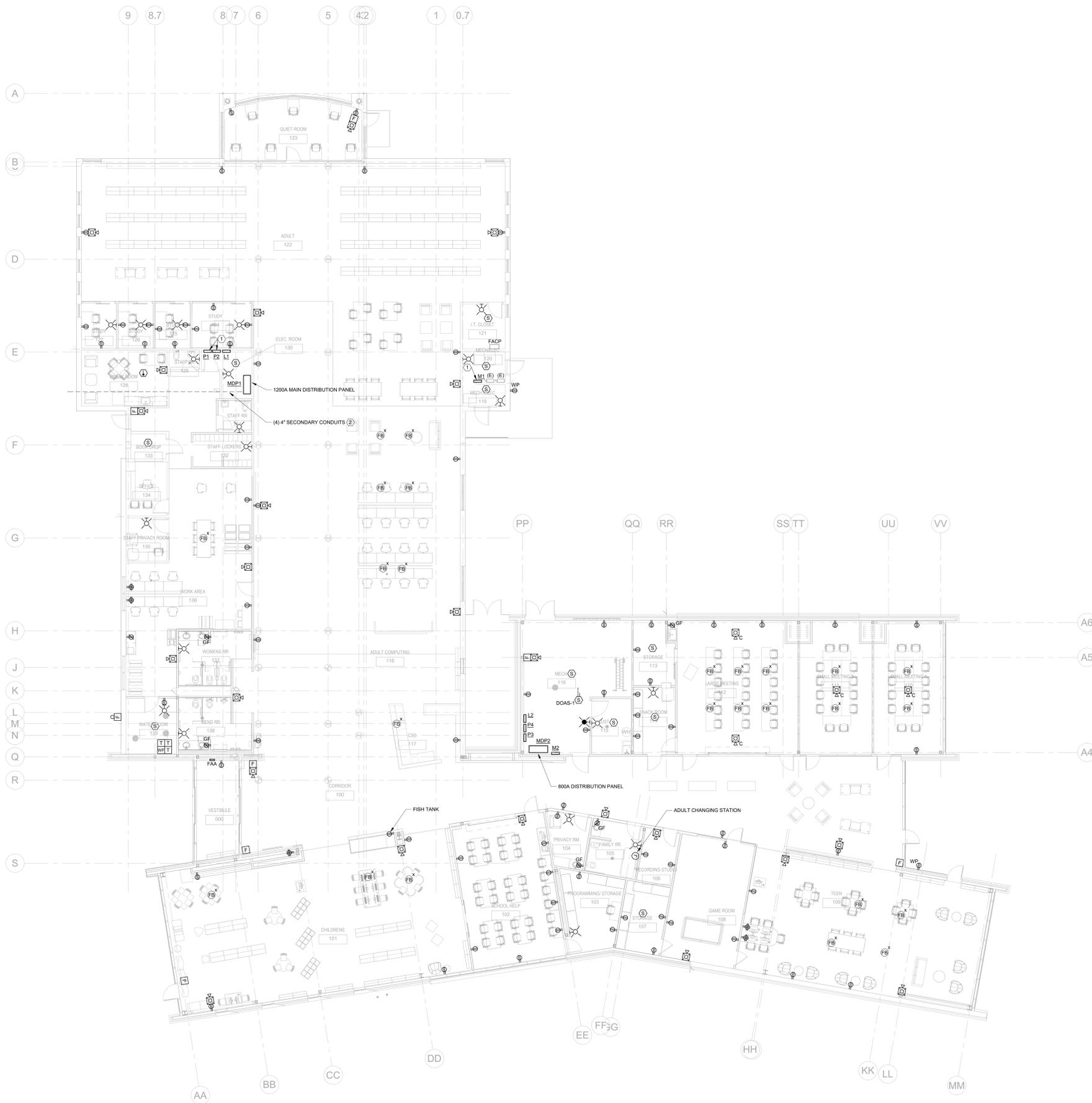
Lighting Design
Zinkon Creative Studio
1222 Hill Rd N, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

#	Description	Date
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1 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

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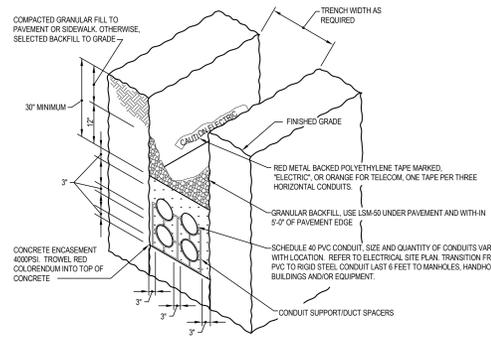
FIRST FLOOR
PLAN - POWER

E201

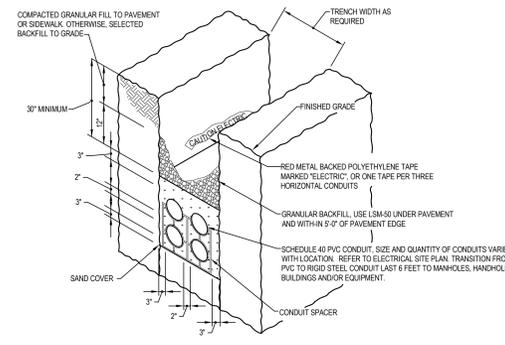
9/29/2023

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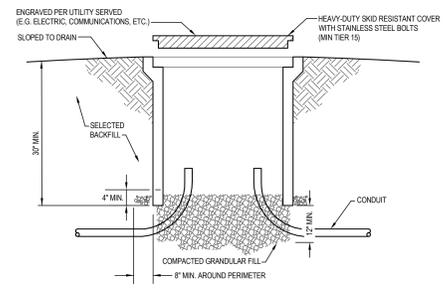
Revision Schedule		
#	Description	Date



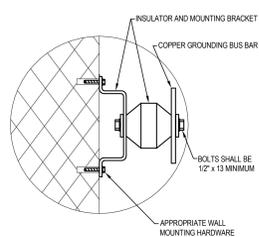
1 DETAIL - CONCRETE ENCASED DUCTBANK
NTS



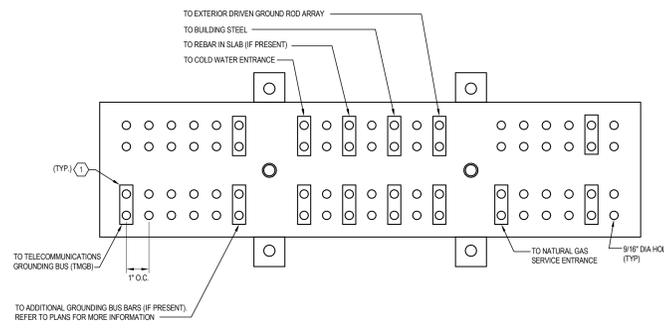
2 DETAIL - DIRECT BURIED CONDUIT
NTS



3 DETAIL - TYPICAL PULLBOX
NTS



4 DETAIL - BUS BAR MOUNTING
NTS



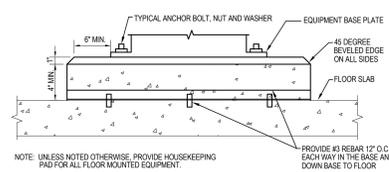
5 DETAIL - ELECTRIC MAIN GROUNDING BUS BAR
NTS

DETAIL GENERAL NOTES:

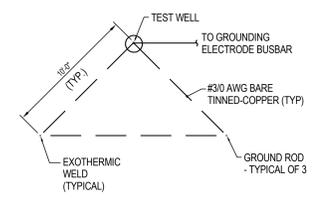
- A. MINIMUM REQUIRED SIZE OF BUS SHALL BE #20X0.25. PROVIDE LARGER SIZE AS REQUIRED. ALL CONNECTIONS MAY NOT BE EXPLICITLY SHOWN.
- B. GROUND BAR SHALL BE SOLID COPPER.
- C. ALL CONNECTIONS TO GROUND BAR WILL BE WITH 2-HOLE LUGS, 1/2-INCH BOLTS WITH LOCK WASHERS ON THE BACK, AND BELLVILLE WASHERS ON THE FRONT SIDE.

DETAIL CODED NOTES:

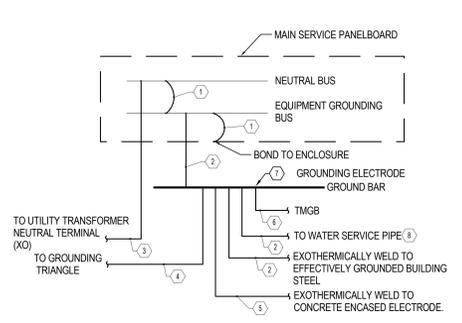
- 1. ALL GROUND WIRING CONNECTING TO GROUNDING BUS BAR SHALL BE MINIMUM #30 AWG UNLESS NOTED OTHERWISE.



6 DETAIL - INTERIOR EQUIPMENT HOUSEKEEPING CONCRETE PAD
NTS



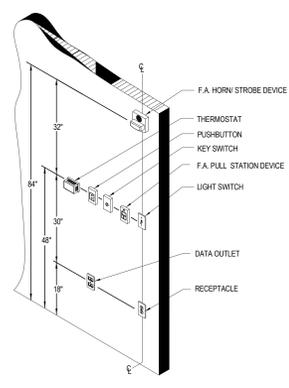
7 DETAIL - GROUND TRIANGLE
NTS



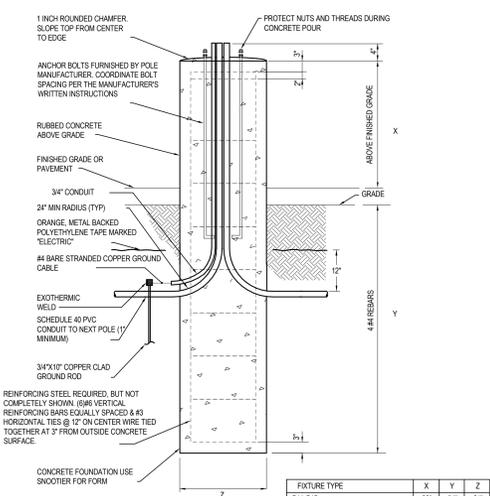
8 DETAIL - SYSTEM GROUND
NTS

CODED NOTES:

- 1. MAIN BONDING JUMPER: PROVIDED AS PART OF LISTED AND LABELED SERVICE EQUIPMENT.
- 2. GROUNDING ELECTRODE CONDUCTOR: #30 AWG COPPER.
- 3. GROUNDED (NEUTRAL) CONDUCTOR: (REFER TO DISTRIBUTION ONE-LINE FOR SIZE).
- 4. SUPPLEMENTAL GROUNDING ELECTRODE BONDING JUMPER CONDUCTOR: #30 AWG COPPER.
- 5. GROUND ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #30 AWG COPPER.
- 6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 30 AWG STRANDED COPPER WITH GREEN INSULATION.
- 7. PROVIDE UL 467 LISTED CONNECTIONS (TYPICAL).
- 8. PROVIDE #30 BOND AROUND WATER METER.



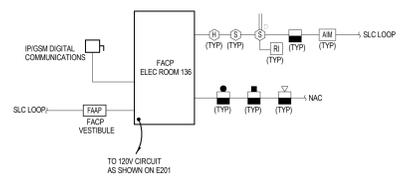
9 DETAIL - WALL DEVICE ORIENTATION
NTS



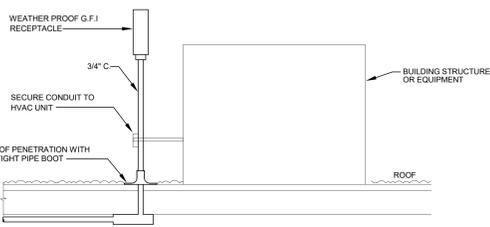
10 DETAIL - POLE BASE
NTS

FIXTURE TYPE	X	Y	Z
PIA/P1B	36"	54"	24"
P1C	36"	72"	24"
P2/P3	60"	54"	24"

ADJUST POLE HEIGHTS PER DIMENSION 'X' ON DETAIL BESID SUCH THAT HEIGHTS OF TYPES P1A/P1B, P1C ARE THE SAME AND TYPES P2A AND P2B ARE THE SAME.



11 DETAIL - FIRE ALARM RISER SYSTEM SCHEMATIC
NTS



12 DETAIL - ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE
NTS

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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule		
#	Description	Date

ELECTRICAL ENGINEER LUMINAIRE SCHEDULE

LUMINAIRE SCHEDULE								
TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS	BALLAST(S)	VOLTAGE/OAD	APPROVED MANUFACTURER(S)
A				RECESSED LED DOWNLIGHT				
A1				RECESSED LED DOWNLIGHT				
C				2X4 RECESSED VOLUMETRIC LED TROFFER				
C1				2X4 RECESSED LED FLAT PANEL TROFFER				
C2				2X2 RECESSED VOLUMETRIC LED TROFFER				
EM				EMERGENCY LIGHTING UNIT WITH 2 ADJUSTABLE HEADS AND INTEGRAL 90-MIN BATTERY				
EX				EXIT SIGN WITH INTEGRAL 90-MIN EMERGENCY BATTERY				
G				SUSPENDED DECORATIVE LUMINAIRE				
G1				SUSPENDED DECORATIVE LUMINAIRE				
H				EXTERIOR WALL PACK				
J				EXTERIOR DIRECT/INDIRECT CYLINDER				
K				UTILITY STIRP LIGHT WITH CHAIN HANGER				
L				RECESSED LED WALLWASHER				

LIGHTING CONSULTANT LUMINAIRE SCHEDULE

DESIGN DEVELOPMENT LUMINAIRE SCHEDULE										
TYPE	LUMINAIRE WATTS	LAMP TYPE VOLTS	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	CONTROL PROTOCOL	ALTERNATE	REMARKS	
A	10	UNV	INTEGRAL 4000K LED, 90 CRI, 1000 LUMENS. FULLY RECESSED LED DOWNLIGHT WITH 4" DIAMETER APERTURE, 50 DEGREE OPTIC AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER PORTFOLIO	LD4C-10-9040-D010-M-1-H	0-10V	GOTHAM LIGHTOLIER		
A1	20	UNV	INTEGRAL 4000K LED, 90 CRI, 2000 LUMENS. SAME AS TYPE A WITH HIGHER LUMENS (VESTIBULE)	RECESSED	COOPER PORTFOLIO	LD4C-20-9040-D010-M-1-H	0-10V	GOTHAM LIGHTOLIER		
B	6.7 * 2.2W/FT	UNV	INTEGRAL 4000K LED, 90 CRI, 575/985 LUMENS/FT. SUSPENDED DIRECT/INDIRECT 4" LINEAR FIXTURES WITH A SATIN WHITE DIFFUSER AND WITH INTEGRAL DIMMABLE DRIVER	SUSPENDED	COOPER NEO-RAY	S1240P-C795D-355U-940-**-FINISH-LENGTH-11-U-D0-F-3W	0-10V	AXIS, FINELITE		
C	30.7	UNV	INTEGRAL 4000K LED, 90 CRI, 4352 LUMENS. FULLY RECESSED LED 2X4 WITH CENTER LAMP CHAMBER WITH RIBBED TEXTURE AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER METALUX	24CZ2-40-HE-UNV-L940-CD-1	0-10V	LITHONIA DAYBRITE		
C1	30.3	UNV	INTEGRAL 4000K LED, 80 CRI, 4000 LUMENS. FULLY RECESSED LED 2X4 FLAT PANEL AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER METALUX	24-C07X-40-UNV-L940	0-10V	LITHONIA DAYBRITE		
C2	36.2	UNV	INTEGRAL 4000K LED, 90 CRI, 5005 LUMENS. FULLY RECESSED LED 2X2 WITH CENTER LAMP CHAMBER WITH RIBBED TEXTURE AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER METALUX	22VCZ2-50-HE-UNV-L940-CD-1	0-10V	LITHONIA DAYBRITE		
D	8.8W/FT	UNV	INTEGRAL 4000K LED, 90 CRI, 795 LUMENS/FT. FULLY RECESSED LINEAR LED SLOT LUMINAIRE WITH 4" WIDE APERTURE, SATIN WHITE LENS AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER NEO-RAY	S1240R-795D-940-**-FINISH-LENGTH-11-U-D0-F-3W	0-10V	AXIS, FINELITE		
F	4.8W/FT	UNV	INTEGRAL 4000K LED, 90 CRI, 495 LUMENS/FT. SUSPENDED DIRECT 2" LINEAR FIXTURES WITH A SATIN WHITE DIFFUSER AND WITH INTEGRAL DIMMABLE DRIVER.	SUSPENDED	COOPER NEO-RAY	S1220P-C485-940-**-FINISH-LENGTH-11-U-D0-F-3W	0-10V	AXIS, FINELITE		
G	80	120/277	INTEGRAL 4000K LED, 90 CRI, 5200 LUMENS. SUSPENDED 48" DECORATIVE LUMINAIRE OVER CHECK-OUT DESK. SELECTED BY ARCHITECT.	SUSPENDED	KONCEPT	ZBP-48"-8-4000K-FINISH-CNP	1-10V	N/A	ARCHITECT TO CONFIRM FINISH	
G1	45	120/277	INTEGRAL 4000K LED, 90 CRI, 2700 LUMENS. SAME AS TYPE G EXCEPT 32" SELECTED BY ARCHITECT.	SUSPENDED	KONCEPT	ZBP-32"-8-4000K-FINISH-CNP	0-10V	N/A	ARCHITECT TO CONFIRM FINISH	
H	27	UNV	INTEGRAL 4000K LED, 90 CRI, 2700 LUMENS. EXTERIOR LED WALL LUMINAIRE WITH INTEGRAL DRIVER AND MOTION SENSOR.	WALL	COOPER LUMARK	PRV-P-PA1-D-740-U-T3-SM-BZ-M8-DMA-L2D	0-10V	LITHONIA DAYBRITE		
J	17	UNV	INTEGRAL 4000K LED, 90 CRI, 2000 LUMENS. WALL MOUNTED 4" DIAMETER DIRECT/INDIRECT CYLINDER LUMINAIRE WITH FLOOD OPTICS AND INTEGRAL DIMMABLE DRIVER.	WALL	COOPER PORTFOLIO	LERLD4C-20-1010-BZ-5C4C-1020-9040-EC44C1020-FL-1NE48RJ0	0-10V	GOTHAM LIGHTOLIER		
K	46	UNV	INTEGRAL 4000K LED, 90 CRI, 5251 LUMENS. CHAIN HUNG 4FT LENSED LED STRIP LIGHT WITH INTEGRAL DIMMABLE DRIVER.	SURFACE	COOPER METALUX	48NLED-LED5-505L-LV-LUNX-L940-CD-1-U-AVC-CHAMSET	0-10V	LITHONIA DAYBRITE		
L	22.8	UNV	INTEGRAL 4000K LED, 90 CRI, 8210/584J LUMENS. FULLY RECESSED LED LENSED WALL WASH WITH 4" DIAMETER APERTURE AND INTEGRAL DIMMABLE DRIVER.	RECESSED	COOPER LUMERE	9002-WZFL-LED4007-F-8-8Z-L1-UNV48SM	0-10V	GOTHAM LIGHTOLIER		
M	15.5W/EA	120	INTEGRAL 4000K LED, 90 CRI, 1000 LUMENS. SUSPENDED LINE VOLTAGE SINGLE CIRCUIT TRACK WITH CURRENT LIMITING DEVICE AND NARROW FLOOD 20DEG OPTICS WITH INTEGRAL DIMMABLE DRIVER.	SURFACE	COOPER HALO	L812-11-NF-90-40-FINISH-L850 SERIES TRACK	PHASE CONTROL	JUNO LIGHTOLIER	FINISH TO MATCH ADJ ARCHITECTURE	

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CML Barnett Branch Addition/Renovation

3434 E Livingston Ave. Columbus, OH 43227

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SCHEDULES - ELECTRICAL

E601

9/29/2023

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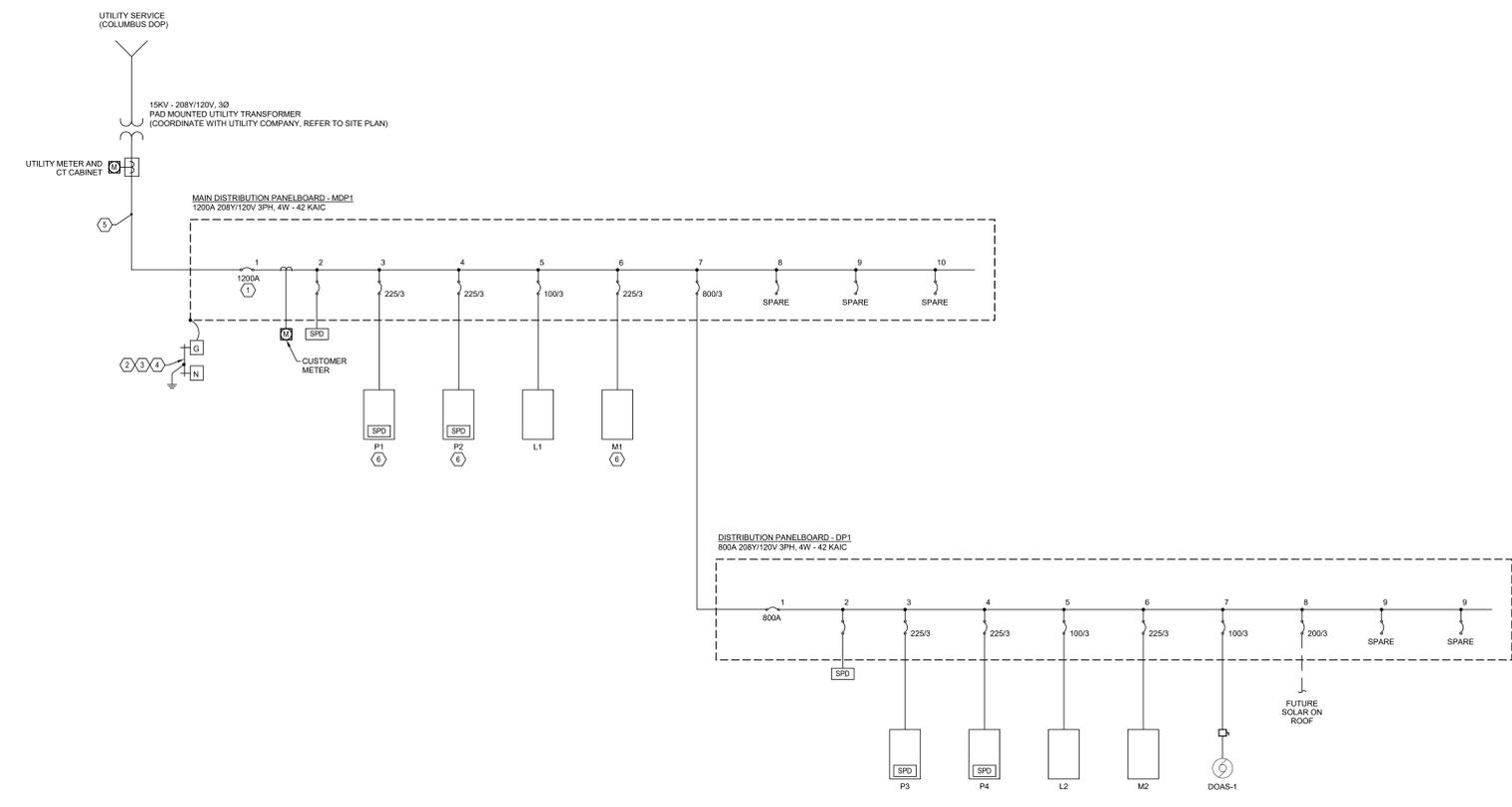
Revision Schedule		
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GENERAL SHEET NOTES

- MAIN BREAKER - ELECTRONIC TRIP LSI TYPE, 100% RATED WITH ARC FLASH REDUCTION MAINTENANCE SWITCH (ARMS) TO SATISFY NEC 240.87. BREAKER SHALL FEATURE ELECTRONIC TRIP WITH LSI SETTINGS.
- BOND NEUTRAL TO GROUND AT SERVICE ENTRANCE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO UL LISTED INTERSYSTEM GROUND BAR. REFER TO DETAIL 3/ES.01.
- PROVIDE BONDING JUMPERS FROM GROUND BAR TO EACH GROUNDING ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250.
- PROVIDE 10' X 3/4" DIA. UL LISTED GROUND ROD(S) AS REQUIRED. REFER TO DETAIL 4/ES.01.
- SECONDARY SERVICE LATERAL: 4 SETS OF 4-#500KCMIL (AL) IN 4" C.
- EXISTING PANELBOARD SHALL BE REPLACED WITH NEW PANELBOARD. EXISTING BRANCH CIRCUITS THAT ARE NOT SHOWN TO BE DEMOLISHED SHALL BE MAINTAINED AND CONNECTED TO NEW PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR QUANTITY OF EXISTING CIRCUITS.

SHEET KEYNOTES



1 ELECTRICAL ONE-LINE DIAGRAM
NTS

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**CML Barnett
Branch
Addition/Renovation**

3434 E Livingston Ave.
Columbus, OH 43227

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**FIRST FLOOR
PLAN - TELECOM -
DEMOLITION**

TD101

9/29/2023

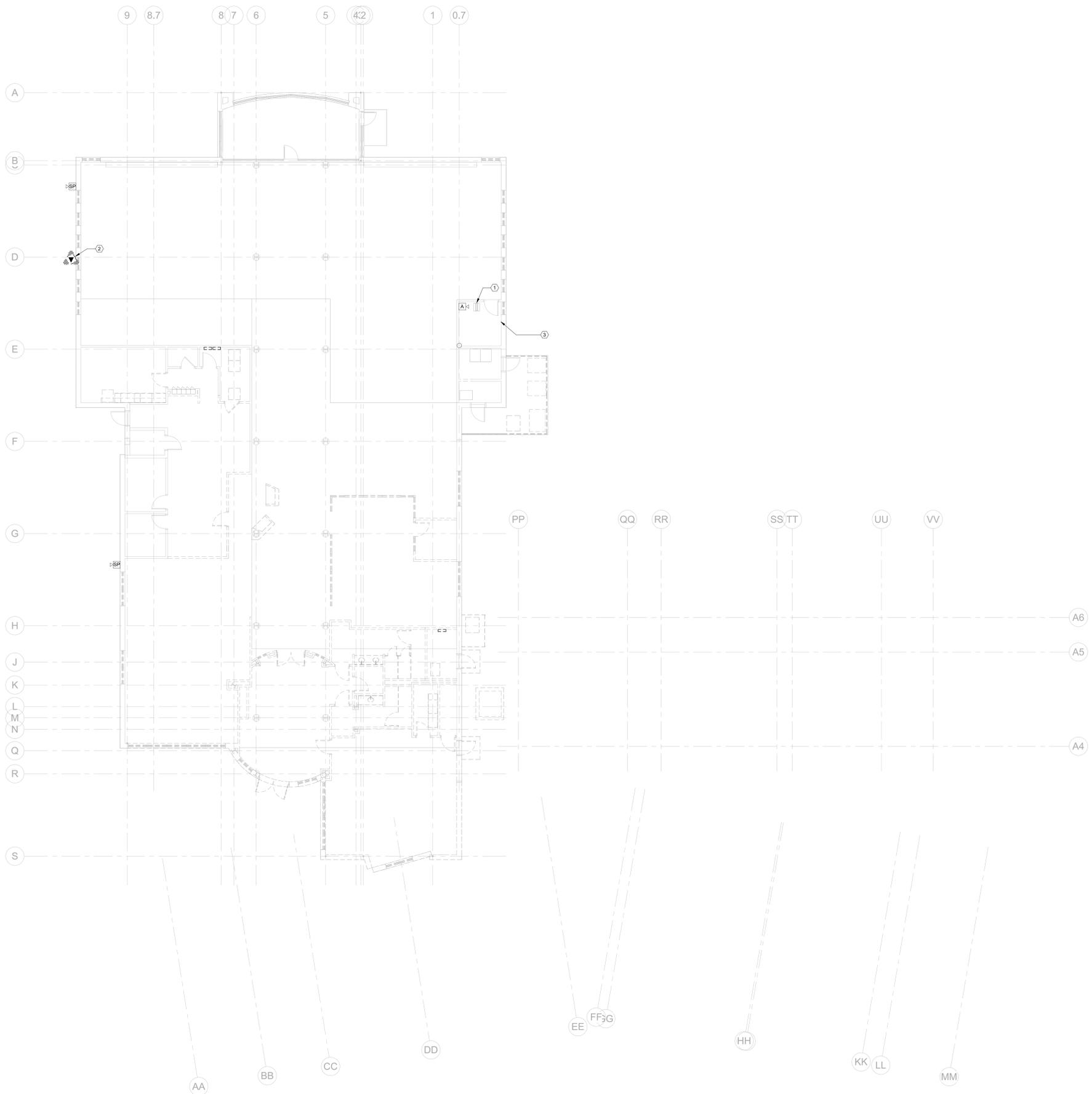
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GENERAL SHEET NOTES

- DRAWING REPRESENTS AN APPROXIMATION OF INITIAL CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION WORK PRIOR TO BID WITH OWNER.
- UNLESS NOTED OTHERWISE, WHERE CEILINGS, WALLS, AND PARTITIONS ARE TO BE DEMOLISHED ON ARCHITECTURAL DRAWINGS, ALL EXISTING SECURITY, TELECOMMUNICATIONS, AND LOW VOLTAGE DEVICES AND EQUIPMENT SHALL BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT COMPLETELY BACK TO SOURCE.
- CONTRACTOR SHALL COORDINATE THE DOCUMENTATION AND REMOVAL OF ALL DATA AND VOICE CABLES BACK TO EXISTING IT RACK AND TELEPHONE BOARD WITH THE OWNER.
- ALL REMAINING OPEN JUNCTION BOXES OR BACK BOXES AS A RESULT OF DEMOLITION WORK SHALL BE CLOSED WITH BLANK COVERPLATES AND KNOCKOUT CLOSURES MATCHING EXISTING FINISH.
- CONTRACTOR SHALL REMOVE ANY EXISTING CABLES DISCOVERED ABOVE ACCESSIBLE CEILING SPACE DURING DEMOLITION PHASE.
- COORDINATE EXTENT OF SECURITY SYSTEM DEMOLITION WITH OWNER PRIOR TO DEMOLITION WORK.
- ALL DATA CABLING OF REMOVED DEVICES SHALL BE COMPLETELY REMOVED BACK TO EXISTING IT RACK.

SHEET KEYNOTES

- EXISTING 2-POST DATA RACK TO BE REMOVED AND TURNED OVER TO THE OWNER.
- EXISTING EXTERIOR WIRELESS ACCESS POINT AND ASSOCIATED DATA CABLING TO BE REMOVED COMPLETE. MAINTAIN ROUGH-IN AND PATHWAY FOR NEW DEVICE. SEE SHEET T101 FOR NEW WORK IN THIS LOCATION.
- EXISTING TELECOM SERVICE ENTRANCE LOCATION. REMOVE / ABANDON AND REPLACE WITH NEW TELECOM SERVICE ENTRANCE. SEE SHEET ES101 FOR NEW ENTRANCE PATHWAY AND REQUIREMENTS.



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

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ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
A	AMPERE
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPLIFIER
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BC	BONDING CONDUCTOR
CCTV	CLOSED CIRCUIT TELEVISION
C	CEILING MOUNTED
CMP	COMMUNICATIONS PLENUM
CMR	COMMUNICATIONS RISER
CU	COPPER
DA	DIAMETER
DWG	DRAWING
EACH	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
ER	EQUIPMENT ROOM (IDF)
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FT	FEET
GC	GENERAL TRADES CONTRACTOR
GND	GROUND
IN	INCHES
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
M	METER
MC	MECHANICAL CONTRACTOR
MCC	MAIN CROSS CONNECT
MFR	MANUFACTURER
MH	MANHOLE
MHZ	MEGAHERTZ
MMF	MULTIMODE FIBER
mm	MILLIMETER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFIO	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
PA	PUBLIC ANNOUNCEMENT
PL	PROPERTY LINE
PLE	PLENUM
POE	POWER OVER ETHERNET
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
REV	REVISION
RM	ROOM
S	STRAND
SFP	SMALL FORM-FACTOR PLUGGABLE
SMF	SINGLE MODE FIBER
SP	SERVICE PROVIDER
TBBC	TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
TEBc	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOM ROOM (IDF)
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLTS
WAN	WIDE AREA NETWORK
AP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WM	WALL MOUNTED
WP	WEATHERPROOF

TELECOM SYMBOLS	TELECOM REQUIREMENTS	PATHWAY REQUIREMENTS
SINGLE-PORT WALL DATA OUTLET MOUNTED AT 4' AFF. UNO.	SINGLE GANG, ONE-PORT FACEPLATE. PROVIDE ONE CAT6 CABLE. TERMINATED ON PATCH PANEL IN TELECOM ROOM.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. CABLE TRAY OR TELECOM ROOM.
WORKSTATION WALL OUTLET MOUNTED AT 18" AFF. UNO.	SINGLE GANG, TWO-PORT FACEPLATE. PROVIDE TWO CAT6 CABLES. TERMINATED ON PATCH PANEL IN TELECOM ROOM.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. CABLE TRAY OR TELECOM ROOM.
RECESSED WORKSTATION FLOOR OUTLET.	SINGLE GANG, TWO-PORT FACEPLATE. PROVIDE TWO CAT6 CABLES. TERMINATED ON PATCH PANEL IN TELECOM ROOM.	MULTI-SERVICE POWER/DATA FLOOR BOX. (1) 1" CONDUIT FOR POWER AND (1) 1" FOR DATA INSTALLED FROM BOX TO ABOVE ACCESSIBLE CEILING. CABLE TRAY OR TELECOM ROOM. SEE DIVISION 26 FOR BOX INFORMATION.
WORKSTATION WALL OUTLET WITH (1) HDMI JACK AND (1) DATA PORT, MOUNTED AT 18" AFF. UNO.	SINGLE GANG FACEPLATE. PROVIDE SINGLE HDMI FEMALE PORT AND ONE DATA PORT. PROVIDE (1) HDMI CABLE FROM WORKSTATION WALL OUTLET TO LOCAL TV OUTLET. PROVIDE (1) CAT6 CABLE TO TR PATCH PANEL.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING. (1) 1" AND (1) 1/2" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
WALL-MOUNTED TV OUTLET WITH (1) DATA AND (1) HDMI JACK. OUTLET MOUNTED AT 8' AFF. UNO.	PROVIDE ONE CAT6 CABLE FROM TV OUTLET TO TELECOM ROOM PATCH PANEL. EXTEND AND TERMINATE HDMI CABLE FROM FLOOR OUTLET OR WORKSTATION OUTLET. SEE SPECIFICATION FOR WHEN SHIELDED CAT6 IS REQUIRED FOR HDMI EXTENSION.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING. (1) 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING AND (1) 1/2" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING, OR TO FLOOR BOX.
DATA OUTLET FOR WIRELESS ACCESS POINT, CEILING MOUNTED. W = WALL MOUNTED.	PROVIDE ONE CAT6 CABLE. TERMINATED ON CAT6 JACK IN PATCH PANEL AND INSIDE DATA OUTLET AT WAP. PROVIDE EXTRA 20' COIL OF CABLE AND ONE 12-INCH PATCH CORD AT FINAL WAP LOCATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX WITH A 3" ROUND PLASTER RING MOUNTED FLUSH TO THE CEILING.
SOUND REINFORCEMENT SPEAKER, SURFACE MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX 3/4" TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
SOUND REINFORCEMENT SPEAKER, FLUSH MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX 3/4" TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
SOUND REINFORCEMENT SPEAKER, WALL MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX 3/4" TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
PA SPEAKER, SURFACE MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX 3/4" TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
PA SPEAKER, FLUSH MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX 3/4" TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
AV, IP CAMERA. 180 = DUAL LENS CAMERA, 360 = QUAD LENS CAMERA	PROVIDE CABLING AND CONNECTOR PER SPECIFICATION.	4-11/16" SQUARE, 2-1/2" DEEP BOX WITH SINGLE GANG PLASTER RING. 1" CONDUIT TO ABOVE ACCESSIBLE CEILING OR LOCAL AV CABINET.

LINE TYPE LEGEND	
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK

SECURITY SYMBOLS	PATHWAY REQUIREMENTS
VIDEO SURVEILLANCE CAMERA 180° = DUAL LENS CAMERA 360° = QUAD LENS CAMERA	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. PROVIDE CAMERA, CAT6 CABLE AND "BISCUIT" OUTLET.
ALARM HORN	
CARD READER	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. 4" AFF. 1/2" WITH KEYPAD
DOOR CONTACT	3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
GLASS BREAK SENSOR	
MOTION DETECTOR	
CCTV MONITOR STATION	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
PUSH BUTTON - PANIC	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
PUSH BUTTON - LOCK DOWN	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
INTERCOM - STATION	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO TELECOM RACK.

NOTE: NOT ALL SYMBOLS MAY BE USED.

SECURITY KEY/NOTES:

A. PROVIDE CAT6 CABLE FROM CARD READER TO NEAREST ERTR AND LEAVE WITH A 1/2" SERVICE LOOP COILED AT THE BACKBOARD. SPACE RESERVED FOR THE OWNERS 'S2' CONTROL UNITS.

B. CONTRACTOR SHALL PLAN FOR ONE PRE-INSTALLATION MEETING WITH OWNER, DOOR HARDWARE SUPPLIER AND ARCHITECT TO REVIEW LOCATIONS AND INSTALLATION REQUIREMENTS.

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Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule		
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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

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GENERAL
INFORMATION -
TELECOM

T001

9/29/2023

22160

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**FIRST FLOOR
PLAN - TELECOM**

T101

9/29/2023

22160

GENERAL SHEET NOTES

1. COORDINATE ALL ROUGH-IN AND PATHWAY REQUIREMENTS FOR DEVICES IN CASEWORK, AND FURNITURE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ROUGH IN.
2. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS FOR ALL AV DEVICES WITH CML'S AV VENDOR.
3. COORDINATE FLOOR BOX LOCATIONS WITH ARCHITECTURAL FURNITURE AND ELECTRICAL POWER DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1. PROVIDE DATA OUTLET FOR ELECTRICAL EQUIPMENT MONITORING. COORDINATE EXACT LOCATION AND REQUIREMENT WITH ELECTRICAL CONTRACTOR.
2. PROVIDE DATA OUTLET AT 4" AFF FOR ROOM SCHEDULING PANEL.
3. PROVIDE DATA OUTLET FOR BAS PANEL. COORDINATE EXACT LOCATION AND REQUIREMENT WITH CONTROLS CONTRACTOR.
4. PROVIDE TWO SINGLE PORT DATA OUTLETS, ONE AT 36" AFF AND ONE AT 48" AFF, FOR STUDENT SIGN IN TABLES AT THIS LOCATION.
5. PROVIDE 12" W X 4" D WIRE BASKET CABLE TRAY ABOVE ACCESSIBLE CEILING, MOUNTED AT 9'-6" AFF.
6. PROVIDE 12" W X 4" D WIRE BASKET CABLE TRAY ABOVE ACCESSIBLE CEILING, MOUNTED AT 12'-6" AFF.
7. PROVIDE NEW WALL MOUNTED WIRELESS ACCESS POINT AND DATA CABLING, USING SAME ROUGH-IN AND PATHWAY AS PREVIOUS DEVICE AND CABLING. REFER TO SHEET TD101 FOR DEMO WORK IN THIS LOCATION.
8. PROVIDE (3) 4" CONDUIT SLEEVES FOR HORIZONTAL CABLING THROUGH WALL, MOUNTED AT 12'-6" AFF.



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

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Revision Schedule

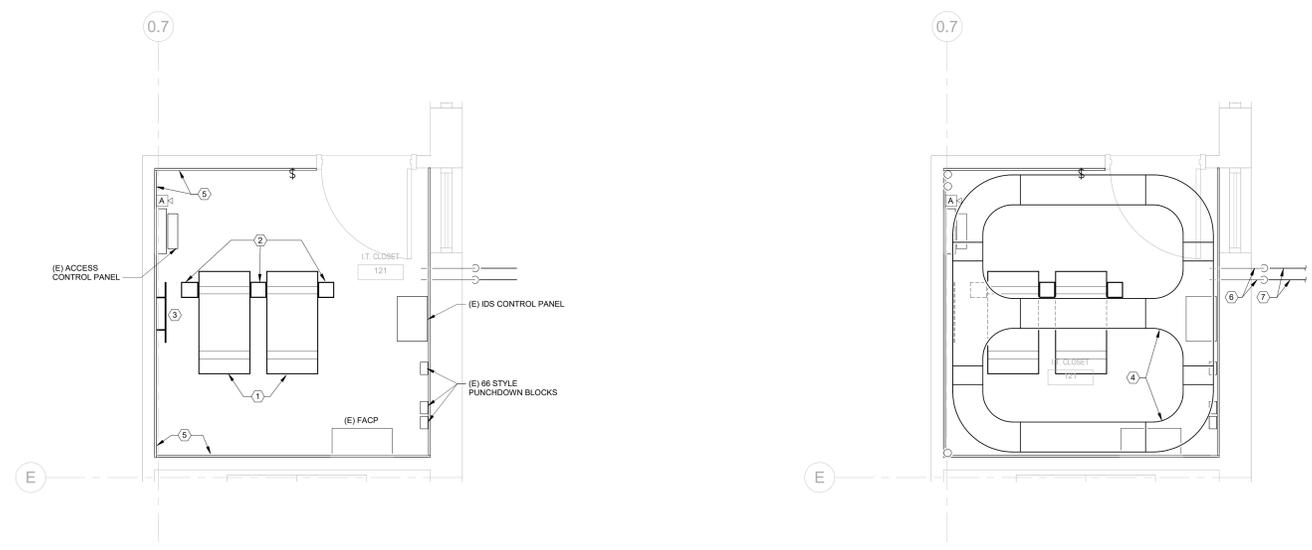
#	Description	Date
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GENERAL SHEET NOTES

- EXISTING DEVICES AND CABLING SHALL REMAIN, UNLESS OTHERWISE NOTED.
- EXTEND EXISTING CABLING FROM DEMOLISHED 2-POST RACK TO NEW 4-POST RACK.

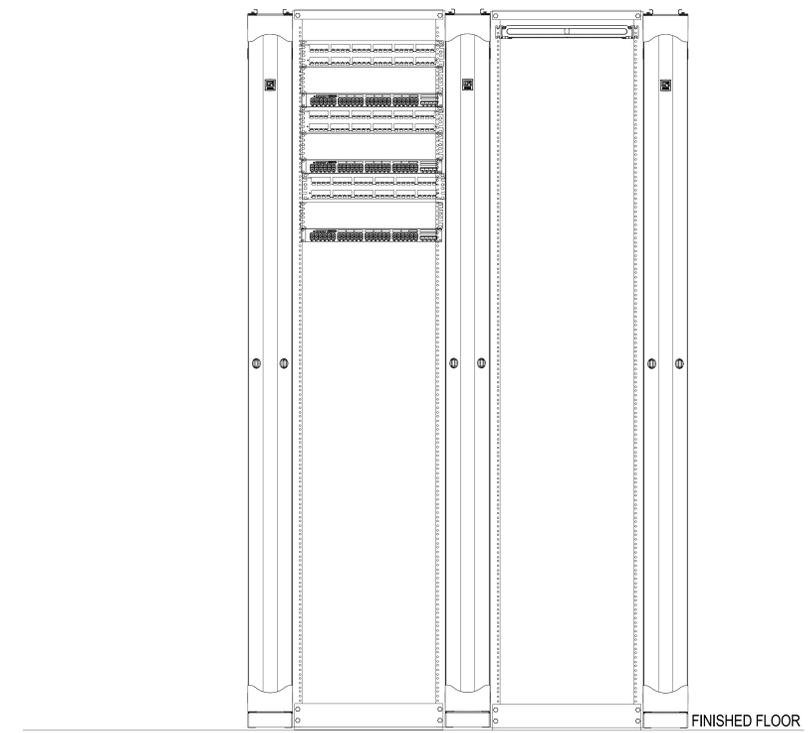
SHEET KEYNOTES

- PROVIDE 84" H X 20" W X 41" D 4-POST RACK WITH EIA STANDARD 19" RACK RAILS. 45 RACK UNITS OF MOUNTING SPACE.
- 6" W X 12" D X 84" H VERTICAL WIRE MANAGER ON EACH SIDE OF RACK.
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
- 12" W LADDER RACK CABLE TRAY FOR TELECOMMUNICATIONS CABLING MOUNTED AT 10'-0" AFF.
- EXISTING PLYWOOD BACKBOARD TO REMAIN.
- EXISTING SERVICE ENTRANCE CONDUITS. CONDUITS PENETRATING THROUGH THE EXTERIOR WALL SHALL REMAIN. DISCONNECT AND REMOVE UNDERGROUND CONDUIT AT ELBOW FITTING BELOW GRADE BACK TO TECHNOLOGY SERVICE TAP LOCATION TO THE SOUTH OF THE BUILDING.
- PROVIDE (2) 4" SCHEDULE 40 PVC TECHNOLOGY CONDUITS FOR NEW ROUTING OF UNDERGROUND TECHNOLOGY SERVICE CABLING. PROVIDE ELBOW CONNECTION TO THE EXISTING CONDUIT THROUGH EXTERIOR WALL. REFER TO ELECTRICAL SITE PLAN FOR TECHNOLOGY CONDUIT ROUTING.



1 ENLARGED FLOOR PLAN - IT CLOSET 121 - TELECOM EQUIPMENT
1/2" = 1'-0"

2 ENLARGED FLOOR PLAN - IT CLOSET 121 - TELECOM PATHWAY
1/2" = 1'-0"



3 DETAIL - RACK ELEVATIONS
NTS

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CML Barnett
Branch
Addition/Renovation

3434 E Livingston Ave.
Columbus, OH 43227

NOT FOR CONSTRUCTION

ENLARGED
PLANS - TELECOM

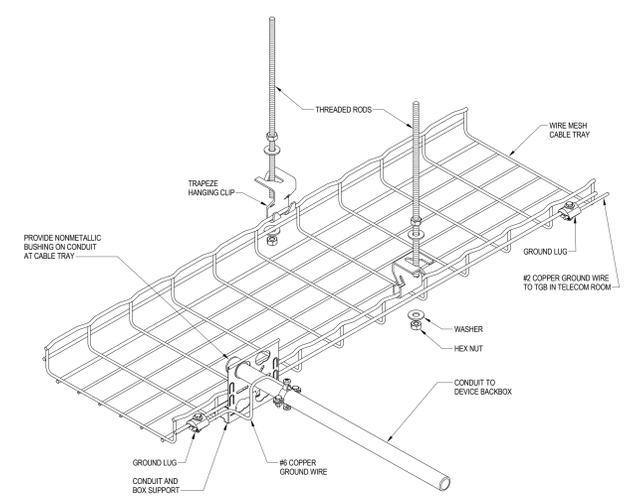
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9/29/2023

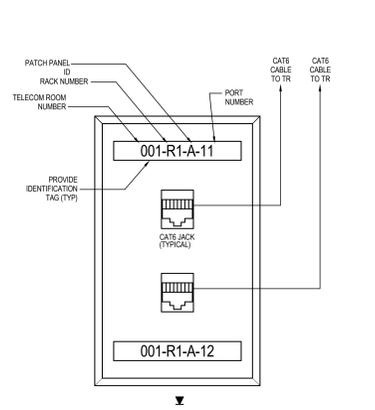
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Revision Schedule		
#	Description	Date

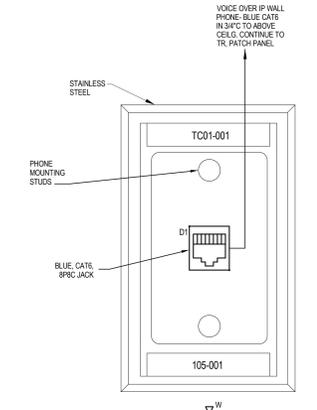
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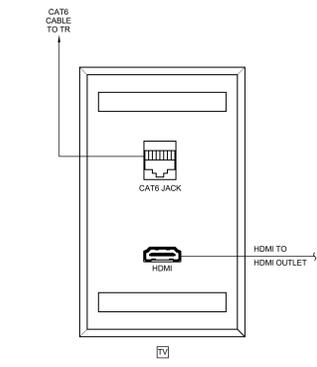
1 DETAIL - CABLE TRAY MOUNTING
NTS



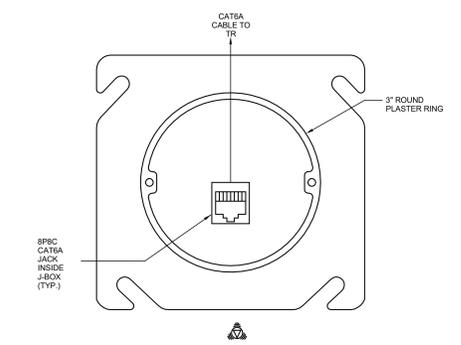
2 DETAIL - GENERAL DATA FACEPLATE
NTS



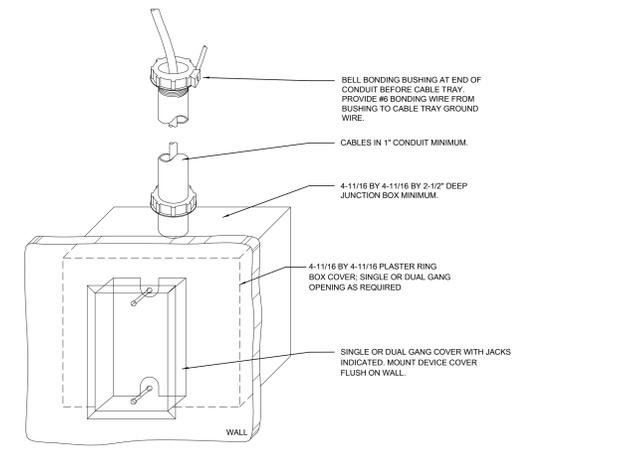
3 DETAIL - WALL PHONE FACEPLATE
NTS



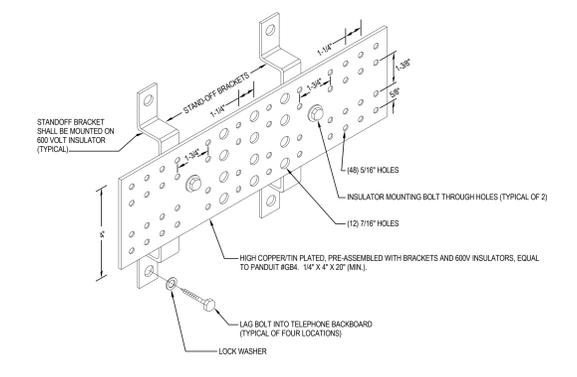
4 DETAIL - TV FACEPLATE
12" = 1'-0"



5 DETAIL - AP FACEPLATE
NTS



6 DETAIL - OUTLET RECESSED MOUNTING
12" = 1'-0"



7 DETAIL - GROUNDING BAR - TMGB
NTS

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Consultants:

Civil Engineer
Moody Engineering
201 Spruce St, Suite 200, Columbus OH 43215

Landscape Architect
MKSK
482 Lusk St, Columbus OH 43215

Structural Engineer
SMBH
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MEP Engineer
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Lighting Design
Zinkon Creative Studio
1222 Hill Rd, Suite 121, Pickerington OH 43147

Drawing Issue Dates

Design Development Submittal
10/09/2023

Revision Schedule

#	Description	Date
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CML Barnett
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3434 E Livingston Ave.
Columbus, OH 43227

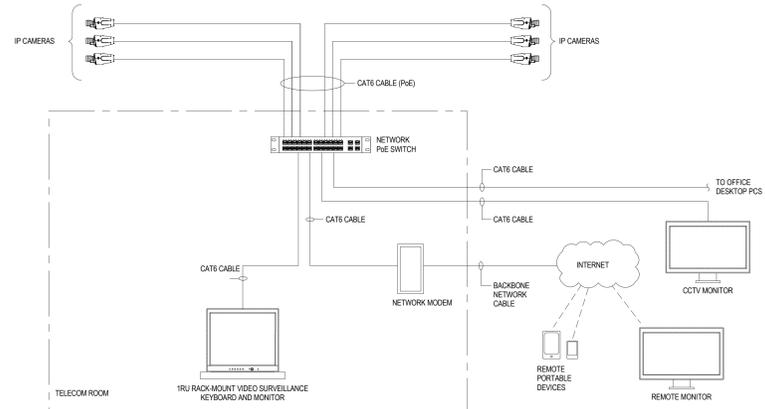
NOT FOR CONSTRUCTION

DETAILS -
SECURITY

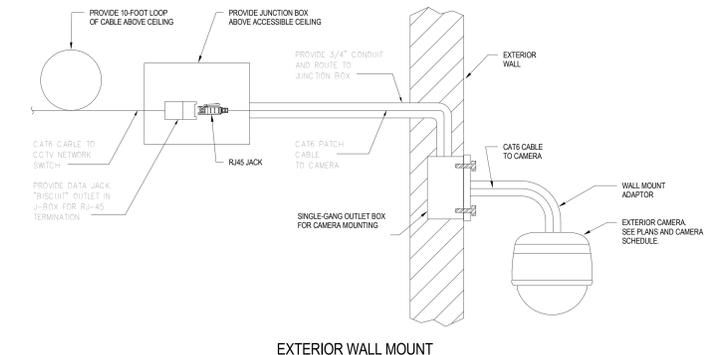
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9/29/2023

22160



1 SCHEMATIC - CCTV SYSTEM
NTS



2 DETAIL - CCTV CAMERA MOUNTING
NTS