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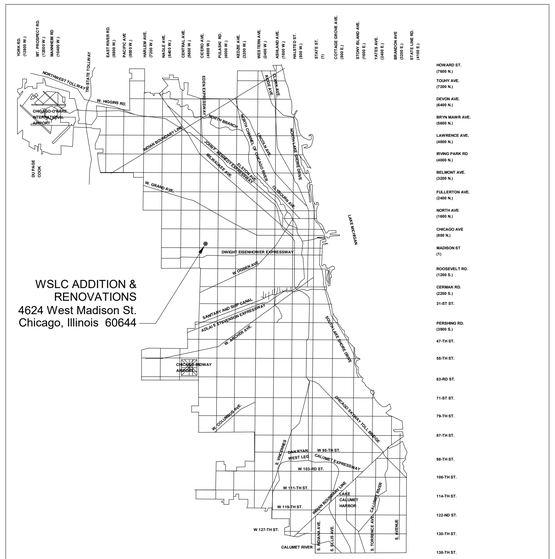

CITY OF CHICAGO LOCATION MAP

WEST SIDE LEARNING CENTER ADDITION AND RENOVATIONS

MALCOLM X COLLEGE
4624 WEST MADISON ST.
CHICAGO, ILLINOIS 60644

75%CD Draft for CM@R Procurement - Not For Construction

03.13.2024

PUBLIC BUILDING COMMISSION OF CHICAGO
BRANDON JOHNSON, MAYOR
RAY GIDEROF, ACTING EXECUTIVE DIRECTOR

CITY COLLEGES OF CHICAGO
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VISUALIZATION / RENDERING

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
COVER SHEET

Sheet G000

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
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ABBREVIATIONS

A	
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
B	
BSMT	BASEMENT
BTTM/	BOTTOM OF
C	
C/C	CENTER TO CENTER
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
D	
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIMS	DIMENSIONS
DN	DOWN
DTL	DETAIL
DWG	DRAWING
E	
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR / ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE ROOFING
EQ	EQUAL
EXIST	EXISTING
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FO	FACE OF
FTG	FOOTING
G	
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
H	
HC	HOLLOW CORE
HM	HOLLOW METAL
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
I	
INSUL	INSULATION / INSULATED
INT	INTERIOR
IRGWB	IMPACT RESISTANT GYPSUM WALLBOARD
L	
LAV	LAVATORY
M	
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL

MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MRGWB	MOISTURE-RESISTANT GYPSUM WALL BOARD
MTD	MOUNTED
MTL	METAL
N	
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
O	
OC	ON CENTER
OH	OPPOSITE HAND
OZ	OUNCE
P	
PCC	PRE-CAST CONCRETE
PLUMB	PLUMBING
PNT	PAINT/PAINTED
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
R	
R	RADIUS
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCED
REQD	REQUIRED
RM	ROOM
S	
SF	SQUARE FOOT
SIM	SIMILIAR
SOG	SLAB ON GRADE
SPEC	SPECIFIED OR SPECIFICATION
SPK	SPRINKLER
SQ	SQUARE
SSTL	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STL	STEEL
STRUCT	STRUCTURAL
T	
T&G	TONGUE & GROOVE
T/	TOP OF
T/D	TELEPHONE/DATA
TELE	TELEPHONE
TLT	TOILET
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL / STRUCTURE
TOW	TOP OF WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VIF	VERIFY IN FIELD
VP	VISION PANEL
W	
W/	WITH
WD	WOOD
WWF	WELDED WIRE FABRIC

MATERIAL DESIGNATIONS

- EARTH
- GRAVEL, POROUS FILL
- CONCRETE
- BRICK
- CONCRETE MASONRY UNITS (IN PLAN)
- CONCRETE MASONRY UNITS (IN SECTION)
- PLYWOOD
- STONE
- WOOD, ROUGH
- INSULATION, BATT
- TERRAZZO
- WOOD, FINISH
- METAL (LARGE SCALE)
- INSULATION, RIGID
- GYP. WALL BOARD, CAST STONE, PLASTER, GROUT, CEMENT, MORTAR

SUMMARY

EXISTING BUILDING SUMMARY

THE WEST SIDE LEARNING CENTER IS LOCATED AT 4624 W. MADISON STREET, CHICAGO IL 60644. PER THE CHICAGO ZONING CODE CH 17-03-0200, THE PROPERTY IS LOCATED IN A C1-2 DISTRICT.

THE BUILDING IS SINGLE STORY WITH AN EXISTING LOWER LEVEL BASEMENT. THE SQUARE FOOTAGE OF THE EXISTING BUILDING INCLUDING BASEMENT EQUALS 35,426 SF. THE NEW ADDITION WILL ADD 7,680 SF TO THE GROUND FLOOR AREA. THE BUILDING OCCUPANCY TYPE IS GROUP B. THE CONSTRUCTION TYPE IS I-B, WITH A CONCRETE T-BEAM ROOF STRUCTURE AND CONCRETE SUPPORT COLUMNS AND STEEL BEAMS. THE EXTERIOR WALL IS MASONRY WITH CMU BLOCK BACKUP WHICH IS GROUTED SOLID.

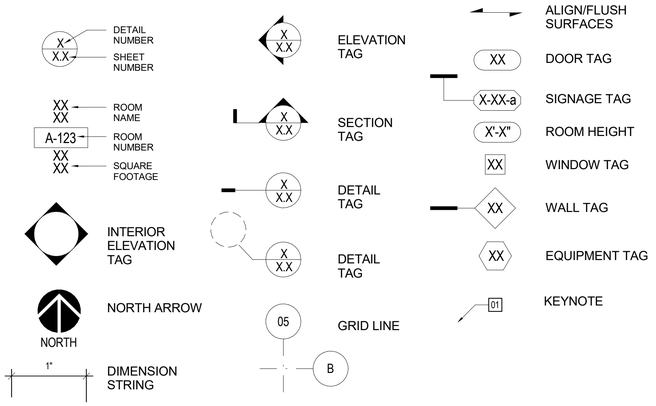
SCOPE OF WORK SUMMARY

THE NEW ADDITION WILL INCLUDE A NEW ASSEMBLY HALL WITH SUPPORTING SPACES, RESTROOMS, AND OUTDOOR SPACE. THE ADDITION IS A SINGLE STORY SLAB ON GRADE. THE CONSTRUCTION TYPE IS I-B NON-COMBUSTIBLE. THE OCCUPANCY TYPE IS A-3.THE EXTERIOR OF THE EXISTING BUILDING LOBBY IS TO BE RE-CLAD WITH A GLASS CURTAIN WALL AND METAL CLAD EXTERIOR WALL. THE LOBBY SHALL RECEIVE NEW INTERIOR FINISHES.

SCOPE ALSO INCLUDES A NEW IDF ROOM AND NEW SINGLE USE RESTROOMS IN THE EXISTING BUILDING, AND A NEW ROOF AT THE EXISTING BUILDING.

SHEET INDEX

SYMBOLS LEGEND



VICINITY IMAGE

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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Code Compliance Matrix – Chicago Zoning Ordinance and 2019 Chicago Construction Codes

Item	Subject	Code Reference	Ordinance Requirement	Actual	Location / Sheet No.
Chicago Zoning Ordinance Requirements					
Z.01	Zoning District / Planned Development No.	zoning map	C1-2 & M1-2	C1-2 & M1-2	
Z.02	Existing Zoning Use(s)	17-17-0103-A	Public and Civic Use Group, Colleges and Universities	Public and Civic Use Group, Colleges and...	
Z.03	Proposed Zoning Use(s)	17-17-0100	NA	NA	
Z.04	Chicago Landmark Designation	recorded deed restriction	NA	NA	
Z.05	Lakefront Protection District	zoning map, Ch. 16-4	NA	NA	
Z.06	Zoning Overlay District	zoning map, Ch. 17-7	NA	NA	
Z.07	Pedestrian Street	zoning map, 17-3-0500	NA	NA	
Z.08	Lot Area	17-17-0302	1.840 ACRES / 80,147 SF	EXISTING NO CHANGE	
Z.09	Floor Area Ratio (FAR)	varies by district, 17-3-0403	MAX 2.2	30,081 SF/80,147 = 0.38	
Z.10	Total Floor Area	17-17-0302-C1-2 Districts, varies by district	(176,323 SF) MAX.	30,081 SF	
Z.11	Building Height	17-17-0311, varies by district, Table 504.3	47' MAX Per C1-2	20' -7"	
Z.12	Front Setback	17-17-0306, varies by district, 17-3-0404	NO FRONT SETBACK REQUIRED	14' - 9"	A010 Architectural Site Plan
Z.13	Combined Side Setbacks	17-17-0308, varies by district, 17-3-0406	NO SIDE SETBACKS REQUIRED	83' - 6"	A010 Architectural Site Plan
Z.14	Rear Setback	17-17-0307, varies by district, 17-3-0405	NO REAR SETBACK REQUIRED	47' - 3"	A010 Architectural Site Plan
Z.15	Rear Yard / On-site Open Space	17-2-0307, 17-4-0410	NA	NA	
Z.16	Number of Dwelling Units	varies by district	NA	NA	
	Number of efficiency units	varies by district	NA	NA	
Z.17	Number of Off-Street Parking Spaces	17-10-0200	1 for every 3 employees	70 spaces (FTE 8)	A010 Architectural Site Plan
	EVSE-ready Parking Spaces (incude above)	varies by district	3	3	
	BICYCLE SPACES		7	7	
Z.18	Number of Off-Street Loading Spaces	17-10-1100	1	1	
Z.19	Landscape Ordinance Compliance	Ch. 17-11	% OF PARKING AREA, GROUNDCOVER/TREE REQ'D	COMPLIES	
Z.20	Townhouse Development Standards	17-2-0500	NA	NA	
Z.21	Planned Development Standards	Ch. 17-8	NA	NA	
Z.22	Open Space Impact Fee Worksheet	Ch. 16-18	NA	NA	
Z.23	Affordable Requirements Ordinance Forms	Ch. 2-44	NA	NA	
Z.24	Plat of Survey	17-13-1302-B	Plat of Survey Drawing	YES	SEE DRAWINGS
2019 Chicago Building Code Requirements (Chicago Buding Code now references IBC 2018)					
B.03.01	Proposed Occupancy Classification(s)	14B-3-302.1		Separated Mixed use: A-3 Assembly & Business	
B.03.02	Existing Occupancy Classification(s)	14R-3-302.6, Ch. 14B-3	Business	Group B	
B.04.01	Special Occupancy Conditions	Ch. 14B-4	NA	NA	
B.05.01	Grade Plane	14B-2-203.2	NA	EXIST NO CHANGE	
B.05.02	Building Height in Feet Above Grade Plane	14B-2-203.3, 14B-5-504.3, 2019 CBC 903.2.1.3	((TYPE I-B) 150 FT W/ SPRINKLER) NEW ADDITION, ((TYPE I-B) 80 FT NO SPRINKLER)	20' - 7"	
B.05.03	Number of Stories Above Grade Plane	14B-2-202, 14B-5-504.4	A-3 TYPE I-B = W/ SPRINKLER (11), B TYPE 1B = (11)	1	
B.05.04	Mezzanine / Equipment Platform	14B-5-505	NA	EXSIT NO CHANGE	
B.05.05	Building Area	14B-2-203.4, 14B-5-506, 14B-5-508.3.2	((A-3 TYPE I-B) S1 = UL), ((B, TYPE I-B) UL)	30,081 SF	
B.05.06	Number of Basements Excluded from Area	14B-5-506.1.3	506.1.3 Basements shall be included in building area where the total area of such basements exceeds the allowable building area for a one-story above grade plan building of the same occupancy and construction type. N/A	1 = 11,783 SF, Basement area is less than the total first floor area. N/A	
B.05.07	Frontage Increase	14B-5-506.3	NA	NA	
B.05.08	Mixed Occuancy Strategy	14B-5-508	PER 508.4: 2-HOUR SEPARATION, 1-HR IF EQUIPPED THROUGHOUT WITH SPRINKLER SYSTEM.	A-3 OCCUPANCY, OVER 300 OCCUPANTS:- 2 HOUR SEPARATION FROM ALL OTHER OCCUPANCIES .	
B.05.09	Accessory Occupancies	14B-5-508.2	NA	NONE	
B.05.10	Incidental Uses	14B-5-509, TABLE	STORAGE ROOMS OVER 100 SF SHALL BE 2HR OR 1HR W/ SPRINKLER	2 STORAGE ROOMS IN GROUP A-3	
B.06.01	Construction Classification	14B-6-602	TYPE IB - PROTECTED NON-COMBUSTIBLE	New Addition is Group A-3 TYPE I-B, W/ SPRINKLER	
	Rating – Primary Structural Frame	Table 14B-6-601, 14B-7-704	TYPE I-B = 2 (1HR WHERE SUPPORTING A ROOF ONLY)	1 & 2 HOUR	
	Rating – Exterior Bearing Walls	Tables 14B-6-601, 14B-6-602	TYPE I-B = 2	NA	There are no exterior bearing walls in the new addition
	Rating – Interior Bearing Walls	Table 14B-6-601	TYPE I-B = 2 (1HR WHERE SUPPORTING A ROOF ONLY)	1 & 2 HOUR	
	Rating – Exterior Nonbearing Walls	Table 14B-6-602	0 HOUR	2 HOUR	
	Rating – Floor Construction	Table 14B-6-601	TYPE I-B = 2	1 & 2 HOUR	
	Rating – Roof Construction	Table 14B-6-601	TYPE I-B = 1	1 HOUR	
B.06.02	Combustible Material, Type I-IV...	14B-6-603, 14B-6-604	ALLOWED IN TYPE I		
B.06.03	Basement Construction	14B-6-605	NA	TYPE II-B	
B.07.01	Exterior Wall Rating	Tables 14B-6-601, 14B-6-602	1 AND 2 HOUR	Complies	
B.07.02	Exterior Wall Projections	14B-7-705.2	NA	NONE	
B.07.03	Exterior Wall Openings	14B-7-705.8	NO LIMIT >30FT FIRE SEPARATION	NO LIMIT >30FT FIRE SEPARATION	SEE SHEET G500 - CODE PLAN
B.07.04	Exterior Wall Parapets	14B-7-705.11	Parapets shall be provided on exterior walls of buildings.	PROVIDED, SEE ROOF PLAN AND EXTERIOR DETAIL SHEETS.	
B.07.05	Fire Wall Rating	14B-7-706.4	N/A	N/A	
B.07.06	Fire Wall Openings	14B-7-706.8, 14B-7-716.1	Each opening through a fire wall shall be protected and shall not exceed 156 SF. The aggregated width of openings at any floor level shall not exceed 25% of the length of the wall.	N/A	
B.07.07	Wall/Floor Rating – Occupancy Separation	14B-7-707.3.9, 14B-7-711.2.4.1	2 HR	2 HR W/ SPRINKLER	
B.07.08	Wall/Floor Rating – Fire Area Separation	14B-7-707.3.10, 14B-7-711.2.4.2	2 HR	NA	
B.07.09	Wall/Floor Rating – Control Area	14B-4-414.2.4, 14B-7-707.3.8	NA	NA	
B.07.10	Wall/Floor Rating – Incidental Uses	14B-7-707.3.7, 14B-7-711.2.4.5, Table 509	2 hours or 1 hour w/ autormtic prinkler system for storage rooms over 100 SF in Group A.	1-HOUR W/ SPRINKLER FOR GROUP A STORAGE OVER 100 SF	
B.07.11	Wall/Floor– Unit Separation	14B-4-420, 14B-7-711.2.4.3	NA	NA	
B.07.12	Wall/Floor – Corridor	14B-7-708, 14B-10-1020.1	1HOUR	NA	There are no corridors in the new addition.
B.07.13	Smoke Barrier	14B-7-709	NA	NA	
B.07.14	Vertical Openings	14B-7-712	NA	NA	
B.07.15	Shaft Enclosure – Rating	14B-7-713.4	1 HOUR LESS THAN 4 STORIES CONTINUOUS	1 HOUR	
B.07.16	Shaft Enclosure – Continuity	14B-7-713.5	NA	NA	
B.07.17	Shaft Enclosure – Openings / Penetrations	14B-7-713.7, 14B-7-713.8	COMPLY W/ 14B-714	COMPLIES	
B.07.18	Penetration of Rated Construction	14B-7-714	COMPLY W/ 14B-714	COMPLIES	
B.07.19	Opening Protectives	14B-7-716	2-HR ASSEMBLY, 90 MIN DOOR, DOOR VISION 100 SQ IN., SIDLEIGHT 2-HR FIRE RESISTANT,	COMPLIES	
B.07.20	Duct and Air Transfer Openings	14B-7-717, TABLE 717.3.2.1	LESS THAN 3 HR FIRE PENETRATION SHALL BE MINIMUM DAMPER RATING 1.5 HOURS		
B.07.21	Fireblocking / Draftstopping	14B-7-718	N/A	N/A	
B.08.01	Interior Finish: Rooms / Spaces	Table 14B-8-803.13	CLASS C	CLASS C	
B.08.02	Interior Finish: Corridors / Exit Access	Table 14B-8-803.13	((GROUP A-3) CLASS B W/SPRINKLER, CLASS A WITHOUT SPRINKLER) ((GROUP B) CLASS C W/SPRINKLER, CLASS B WITHOUT SPRINKLER)	CLASS A	
B.08.03	Interior Finish: Exit / Exit Discharge	Table 14B-8-803.13	CLASS A	CLASS A	
B.08.04	Interior Floor Finish (Fibrous)	14B-8-803.4.2	CLASS I AT EXITS AND EXIT WAYS AND LOBBIES. CLASS II AT CORRIDORS AND SPACES WITHOUT PARTITIONS.	COMPLIES	
B.09.02	Automatic Sprinkler System	14B-9-903.2	REQUIRED FOR GROUP A-3	COMPLIES	
B.09.03	Alternative Automatic Extinguishing...	14B-9-904.2	NA	NA	
B.09.04	Standpipe System	14B-9-905.3	COMPLIES	COMPLIES	
B.09.05	Portable Fire Extinguishers	14B-9-906.1	REQUIRED	COMPLIES	
B.09.06	Fire Alarm System	14B-9-907.2	REQUIRED	COMPLIES	
B.09.07	Single- and Multiple-station Smoke Alarms	14B-9-907.2.10	NA	NA	
B.09.08	Visible Alarm Notification	14B-9-907.5.2.3	COMPLIES	COMPLIES	
B.09.09	Smoke Control System	14B-9-909	NA	NA	
B.09.10	Smoke and Heat Removal	14B-9-910.2	NA	NA	
B.09.11	Fire Department Connection	14B-9-912.2, 14B-9-912.4	NA	NA	
B.09.12	Fire Pump Room Rating	14B-9-913.2.1	2-HOUR	COMPLIES	
B.09.13	Signage for Shaftway / Equipment Room	14B-9-914	NA	NA	
B.09.14	Carbon Monoxide Detection	14B-9-915	NA	NA	
B.09.15	City Fire Alarm Box	14B-9-919.1	NA	NA	
B.10.01	Occupant Load Calculations Shown	14B-10-1004.1	SEE CODE PLAN	NA	
B.10.02	Egress Capacity Calculations Shown	14B-10-1005.1	SEE CODE PLAN	NA	
B.10.03	Common Path of Egress Travel Distance	Table 14B-10-1006.2.1	SEE CODE PLAN	NA	
B.10.04	Single Exit Condition Allowed	14B-10-1005.3.3	LESS THAN 49 OCCUPANTS	COMPLIES	
B.10.05	Exit and Exit Access Separation	14B-10-1007.1	1/3 DIAGONAL DISTANCE OF SPACE (NS) 1/2 OF SPA...	COMPLIES	
B.10.06	Accessible Means of Egress	14B-10-1009	REQUIRED	COMPLIES	
B.10.07	Two-way Communication	14B-10-1009.8	AREA OF RESCUE NOT REQ'D	NA	
B.10.08	Roof Access	14B-10-1011.12	STAIR NOT REQ'D	NA	
B.10.09	Exit Signs	14B-10-1013	COMPLIES	COMPLIES	
B.10.10	Handrail / Guard Details	14B-10-1014, 14B-10-1015	COMPLIES	COMPLIES	
B.10.11	Exit Access Travel Distance	14B-10-1017.2	MAX TRAVEL TO EXIT = 250' , MAX COMMON PATH OF TRAVEL = 75' , MAX DEAD END CORRIDOR = 50'	REFER TO LIFE SAFETY PLANS	
B.10.12	Assembly Seating Requirements	14B-10-1029	NA	NA	
B.12.01	Natural Ventilation	14B-12-1202.1	NA	NA	
B.12.02	Natural Light	14B-12-1204.2	8% OF FLOOR AREA	COMPLIES	
B.12.03	Court / Yard Minimum Dimensions	14B-12-1205	NA	NA	
B.12.04	Minimum Ceiling Height	14B-12-1207.2	7'-6"	COMPLIES	
B.12.05	Minimum Room Area	14B-12-1207.3	NA	NA	
B.14.01	Exterior Wall Coverings – Combustibility	14B-14-1405.1	NA	NA	
B.15.01	Roof Fire Classification	14B-15-1505.1	CLASS B	COMPLIES	
B.15.02	Rooftop Structure Height	14B-15-1510, 14B-15-1513	NA	NA	
B.15.03	Rooftop Structure Area	14B-15-1510.1.1, 14B-15-1513.1.1	NA	NA	
B.15.04	Rooftop Structure Materials	14B-15-1513.3	NA	NA	
B.15.05	Roof Covering Solar Reflectance	14B-15-1515.2	.72 REFLECTANCE	COMPLIES	
B.27.01	Electrical Room Fire Resistance Rating	Table 14B-5-509, Title 14E	NA	NA	
B.27.02	Electrical Room Number of Exits	14B-10-1006.2.2.7	NA	NA	
B.28.01	Mechanical Room Fire-resistance Rating	Table 14B-5-509	NA	NA	
B.28.01	Mechanical Room Number of Exits	14B-10-1006.2.2	NA	NA	
B.30.01	Elevator Cabs Per Hoistway	14B-30-3002.2	NA	NA	
B.30.02	Elevator Cab Dimensions	14B-30-3002.4	NA	NA	
B.30.03	Standby Power for Elevator	14B-10-1009.4.1	NA	NA	
B.30.04	Elevator Machine Room Rating	14B-30-3005.4	NA	NA	
B.31.01	Fence Height and Materials	14B-31-3114, (also zoning reqs.)	NA	NA	

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MEETING MINUTES

Agency Name:	Public Building Commission of Chicago (PBC)
Project Name:	**Malcolm X West Side Learning Center Addition and Renovations**
Project Location:	4624 West Madison Street, Chicago IL 60644
BE No:	BED Project No. 022137 / PBC Project No. 03720
Meeting Purpose:	**Discuss Plumbing Fixture Shortfall**
Date:	01.30.2024
Time:	1:38pm
Location:	Phone
Attachments:	

Attendees:
Chicago Building Department
Martin Woulfe (MW), Chicago Building Department Plumbing Plan Reviewer

Architect of Record – BED
Zachary Clark (ZC), PM

Prepared By: Zachary Clark

Distribution: Attendees
Other : **PBC:** Kerl LaJeune, Director of Planning & Design, Justin Cafferty, DM , Brandon McNair , PM,
BED: Pam Crowell , PA, Ellen Dickson PIC

Items Discussed:
1. Discussed plumbing shortfall for a new addition to an existing college.
   a. BED reached out to determine the procedures when there is a shortfall of plumbing fixtures as part of a new addition. BED described that they are working on a project which includes the addition of an assembly hall to an existing college. BED noted that there are 6 new plumbing fixtures that are part of the new addition, and existing plumbing fixtures within then existing facility. BED has performed the occupancy calculations for the entire facility, both existing and new, as well as fixture calculations and there is a shortfall of 1 Female WC, 1 Male Lav and (2) Female Lavs. BED asked what the procedure is when there is a shortfall.
   b. (MW) asked if there is a bathroom facility within 200' of the addition? BED responded yes.
   c. (MW) asked if the new fixtures are ADA compliant? BED stated yes.
   d. (MW) asked if there are additional ADA compliant bathrooms within 200' of the existing? BED stated yes.
   e. (MW) asked if the project was going to be submitted for standard plan review? BED stated yes.
   f. (MW) stated the plumbing reviewer would not request additional fixtures if the shortfalls are only a few fixtures as stated. When BED submits for permit, they should provide the occupancy and plumbing calculations indicating where on the plans the new and existing toilet facilities are located. If the fixture shortfalls are accurately documented, the project should receive approval with the shortfalls, pending permit review and any further

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MEETING MINUTES

comments during the permit review process.

Attachments: None

These notes are reported to the best knowledge of the reporter and unless written comments are returned to our attention within five (5) business days, these comments will be assumed as noted and action proceeded with.

If any items are missing, please contact:

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Project Manager and Associate Principal
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t 312-440-2300
f 312-440-2303
zclark@baileyedward.com

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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CITY OF CHICAGO, MAYOR BRANDON JOHNSON

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Issuance

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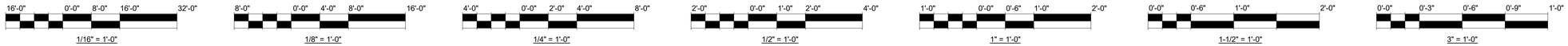
PBC Project Name:
West Side Learning Center Addition and Renovations

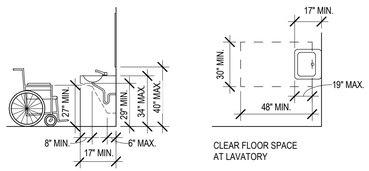
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

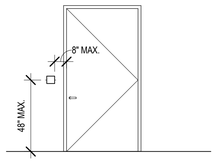
Title
CODE MATRIX

Sheet G200



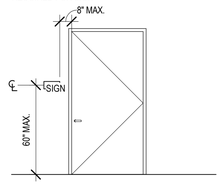


LAVATORY CLEARANCE

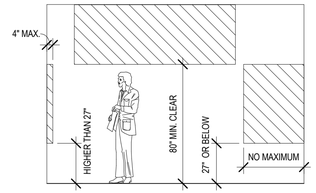


SWITCH AT DOOR

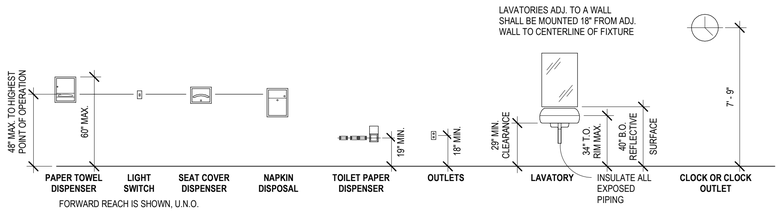
1. MINIMUM 48" TO BOTTOM OF LOWER-MOST CHARACTERS
2. MAXIMUM 60" TO BOTTOM OF UPPER-MOST CHARACTERS
3. LOCATE BESIDE INACTIVE LEAF OF DOUBLE DOORS
4. 18" x 18" MINIMUM CLEAR FLOOR AREA BEYOND SWING REQUIRED FOR SIGN



SIGNAGE MOUNTING HEIGHT

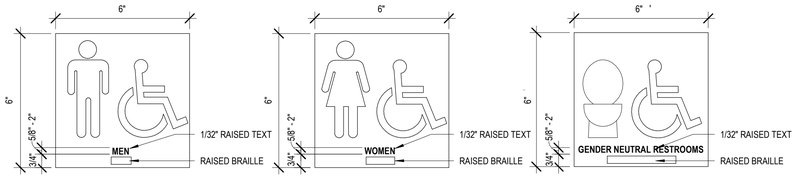


PROTRUDING HAZARDS



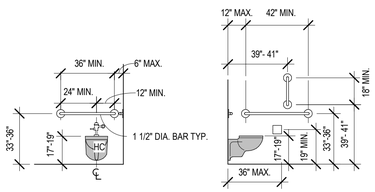
FORWARD REACH IS SHOWN, U.N.O.

STANDARD MOUNTING HEIGHTS

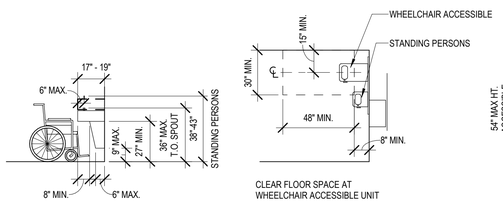


TOILET ROOM SIGNAGE GRAPHICS

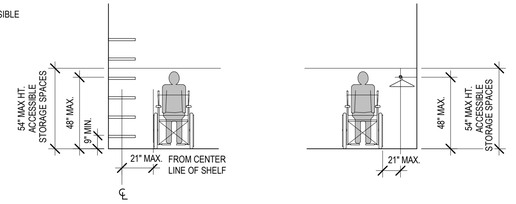
SCALE: NTS



TOILET ROOM ELEVATIONS

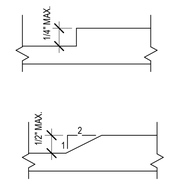


DRINKING FOUNTAINS

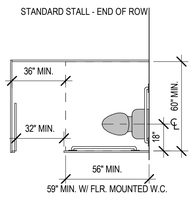


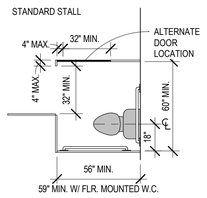
SHELVES

CLOTHES ROD

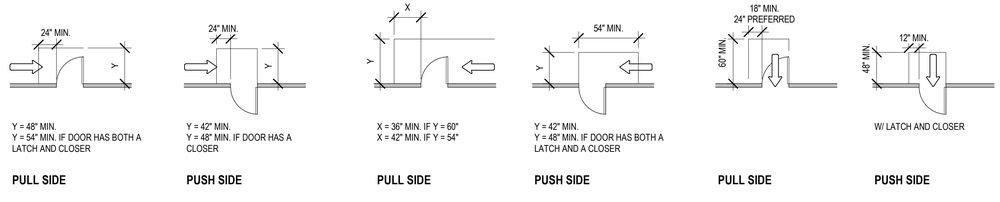


LEVEL CHANGES



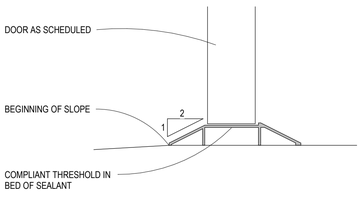


ACCESSIBLE TOILET STALLS

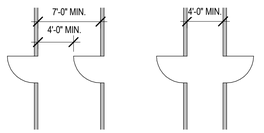


MANUVERING CLEARANCES AT DOORS

SCALE: NTS



THRESHOLD



CLEARANCES FOR DOORS IN SERIES

SCALE: NTS

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ACCESSIBILITY INFORMATION

Sheet
G300

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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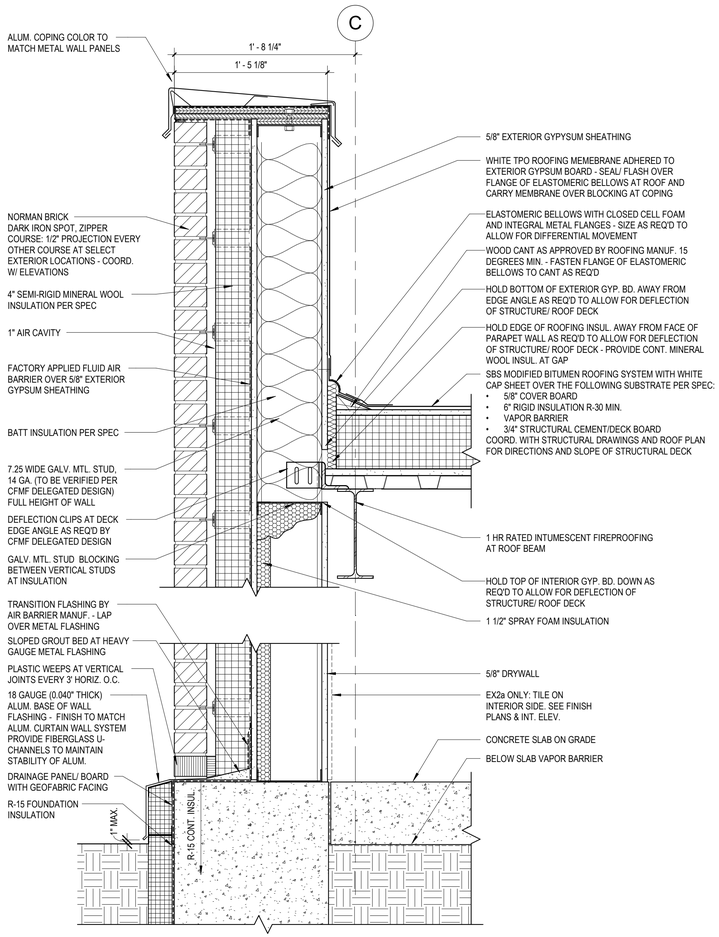
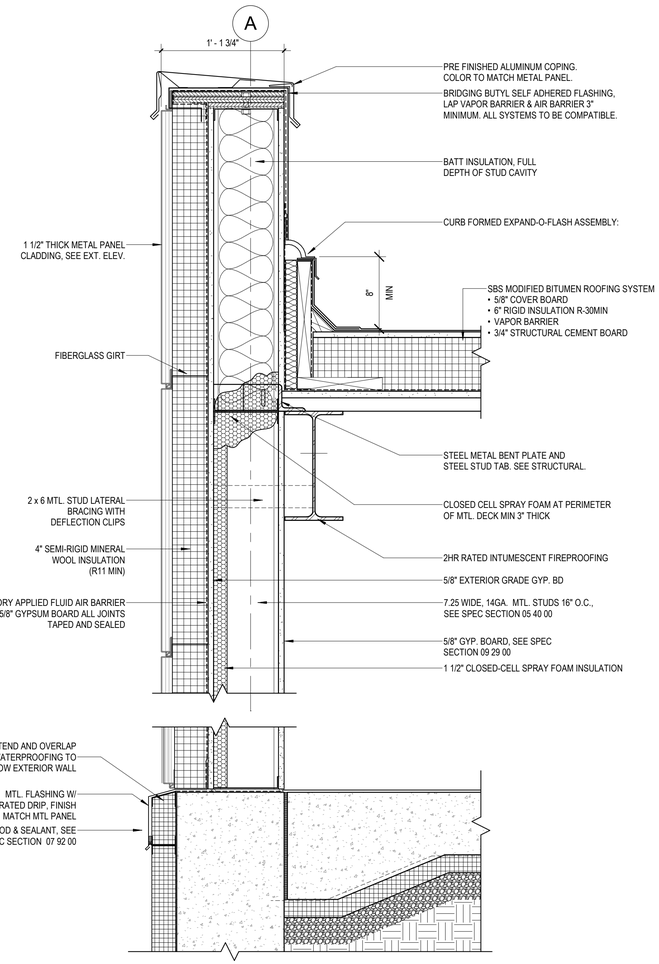
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



UL	EWS0016	RATED EXTERIOR BRICK WALL W/ STUD BACKUP
STC		
R-VALUE	26 EST.	

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
EX2a	7 1/4"	14		
EX2b	7 1/4"	14		TILE ON INTERIOR SIDE



UL	EWS0019	RATED / NON-RATED EXTERIOR METAL PANEL WALL W/ STUD BACKUP
STC		
R-VALUE	26 EST.	

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
EX1	7 1/4"	14	1'-1 3/4"	2-HOUR RATED
EX1a	7 1/4"	14	1'-1 3/4"	NON-RATED

2HR RATED INTUMESCENT FIREPROOFING, TYP.

1.THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL DESIGN CONCEPT, DIMENSIONS, MAJOR ELEMENTS AND MATERIALS. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL COMPLETION OF THE PROJECT. ALL CONTRACTORS SHALL FURNISH ALL OF THOSE ITEMS AND LABOR REQUIRED FOR THE FULL COMPLETION OF THIS PROJECT IN A FIRST CLASS WORKMANSHIP-LIKE MANNER.

2.ALL WORK IS TO BE PERFORMED FROM FINAL CONSTRUCTION DOCUMENTS ONLY AND A COPY OF THE APPROVED FINAL SET MUST BE LOCATED ON THE SITE AT ALL TIMES. ALL CONTRACTOR'S SUBCONTRACTORS SHALL BE GIVEN FULL SETS OF FINAL CONSTRUCTION DOCUMENTS WITH NO SHEETS EXCLUDED.

3.DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS HOLD PRIORITY OVER APPARENT SCALE. WHERE THERE APPEARS TO BE A CONFLICT BETWEEN DIMENSIONS OR WHERE DIMENSIONS CANNOT BE DETERMINED FROM THE DRAWINGS, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

4.EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS HAVE BEEN COMPILED BY THE ARCHITECT FROM EXISTING DRAWINGS PROVIDED BY THE OWNER AND FIELD MEASURING AND SHALL BE USED BY THE CONTRACTOR ONLY AS A GUIDE. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES IN THE SITE CONDITIONS OR THE DOCUMENTS TO THE ARCHITECT IN WRITING.

5.CONTRACTORS SHALL BE HELD RESPONSIBLE FOR THE ADHERENCE AND COMPLIANCE TO ALL APPLICABLE CITY, STATE AND NATIONAL CODES, ORDINANCES, AND ACCESSIBILITY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THOSE OF THE STATE ADA. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.

6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL UTILITIES AFFECTED BY PROJECT.

7.THE CONTRACTOR SHALL VERIFY ALL PARTITION LAYOUTS WITH ARCHITECT BEFORE CONSTRUCTION.

8.THE PROJECT SHALL BE ENTIRELY CLEANED BY THE GENERAL CONTRACTOR BEFORE OWNER OCCUPATION INCLUDING ALL WINDOW GLASS, MIRRORS, FLOORS, WALL TILES AND ELECTRICAL PLATES. SEE SPEC.

9.THE WORK AREAS SHALL BE KEPT IN BROOM-SWEPT FINISH CONDITION. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR LITTER AND LEFT OVER MATERIALS ON A REGULAR BASIS AND BE RESPONSIBLE FOR LEAVING THE PROJECT IN A BROOMSWEPT FINISH CONDITIONS UPON COMPLETION OF THEIR PORTION OF THE PROJECT.

10. THE ELECTRICAL AND HVAC CONTRACTORS SHALL VERIFY ALL UTILITY CHASES AND EQUIPMENT LOCATION AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE OWNER PRIOR TO SUBMITTING HIS / HER BID. UNLESS THE OWNER AND THE ARCHITECT ARE NOTIFIED IN WRITING OF THE CONFLICTS OR ADDITIONAL SPACE REQUIREMENTS BEFORE THE START OF CONSTRUCTION, ALL CORRECTIVE MEASURES WILL BE MADE BY THE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.

11. THE OWNER'S WRITTEN AUTHORIZATION MUST BE OBTAINED PRIOR TO THE ORDERING OF ANY MATERIAL, AWARDING OF ANY CONTRACTS OR THE EXECUTION OF ANY WORK WHICH INVOLVES EXTRA COST.

12. NOTIFY THE OWNER IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE IDENTIFIED. DO NOT PROCEED WITH THE WORK UNTIL THE HAZARDOUS MATERIALS HAVE BEEN REMOVED.

13. REFER TO DRAWINGS OF OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND COORDINATION OF WORK. INCLUDING M/E/P/FP AND A/V DRAWINGS.

14. DETAILS SHOWN ARE INDICATIVE OF THE CHARACTER, PROFILES, MATERIALS AND SYSTEMS REQUIRED FOR THE WORK INCLUDING THOSE CONDITIONS NOT COVERED BY SPECIFIC DETAILS.

15. WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM THE DRAWINGS OR SPECIFICATIONS. CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS

2. THE ARCHITECTURAL DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSIST OF SPECIFICATIONS AND ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS OR DRAWINGS WITHOUT SPECIFICATIONS ARE INCOMPLETE AND SHALL NOT BE DISTRIBUTED AND UTILIZED.

3. THE ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS SHOW THE EXACT LOCATION OF MANY – BUT NOT ALL – EXPOSED PARTS OF THE WORK. FOR ITEMS NOT LOCATED EXACTLY, APPLY THE RULES INDICATED BY G1.1 FOR TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS TO DETERMINE THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK.

4. DESIGN REFERENCE ELEVATION +0'-0" AS SHOWN ON THE ARCHITECTURAL DRAWINGS CORRESPONDS TO THE FINISH FLOOR ELEVATION OF THE FLOOR ILLUSTRATED.

5. FOR GENERAL NOTES AND SYMBOLS APPLICABLE ONLY TO THE DRAWINGS OF DISCIPLINES OTHER THAN ARCHITECTURE, REFER TO THE SPECIFIC DRAWINGS OF THAT DISCIPLINE.

6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL SUBCONTRACTORS, TRADES, AND SUPPLIERS. THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE OWNER OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE OWNER.

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ASSEMBLY TYPES

Sheet G400

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
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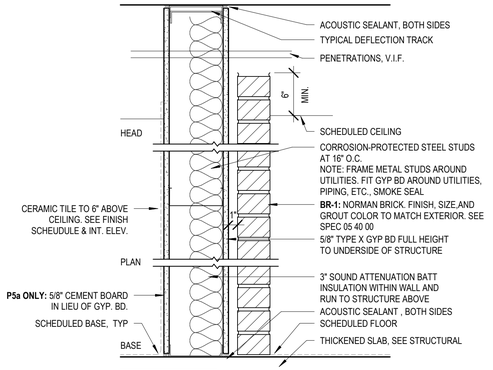
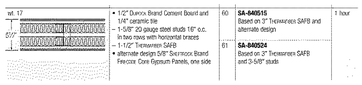


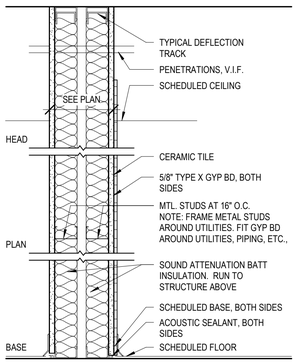
UL	
STC	
R-VALUE	-

NON-RATED INTERIOR BRICK CLAD PARTITION

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
P5a	6"	20		
P5b	6"	20		NON-BRICK SIDE: NO GYP OR TILE

P5 P5_INTERIOR BRICK PARTITION
1 1/2" = 1'-0"



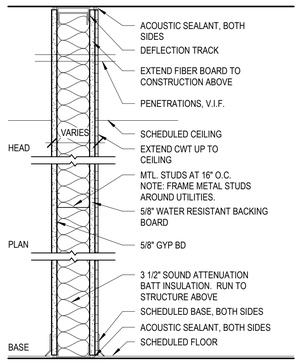


UL	
STC	60+
R-VALUE	-

CHASE WALL

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
C0a	2-1/2"	20	VARIES	
C0b	3-5/8"	20	VARIES	

CW CHASE WALL
1 1/2" = 1'-0"

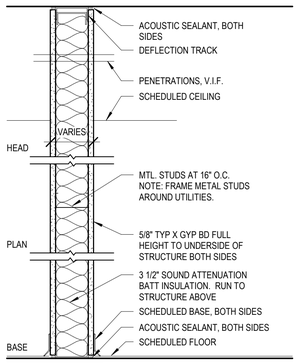


UL	-
STC	
R-VALUE	-

TYPICAL METAL STUD INTERIOR PARTITION WALL TO STRUCTURE

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
P3a	3-5/8"			
P3b	6"			

P4 PARTITION WALL W/ CERAMIC TILE
1 1/2" = 1'-0"

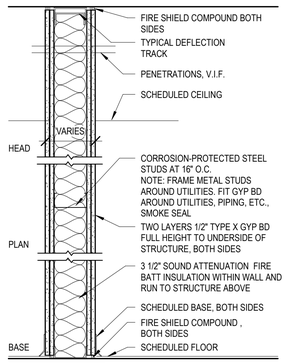


UL	U419
STC	49
R-VALUE	-

TYPICAL METAL STUD INTERIOR PARTITION WALL TO STRUCTURE

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
P0a	3-5/8"	25	4-7/8"	
P0b	6"	20	7-1/4"	

P3 NON-RATED PARTITION WALL
1 1/2" = 1'-0"

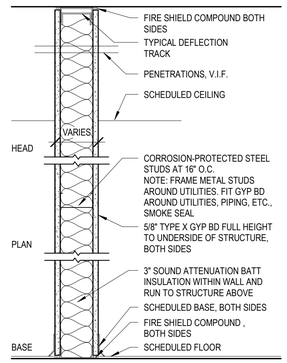


UL	U419
STC	55
R-VALUE	-

2-HR RATED INTERIOR PARTITION WALL TO STRUCTURE

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
P2a	3-5/8"	25	5-5/8"	
P2b	6"	20	8"	
P2c	3-5/8"	25	5-5/8"	ACOUSTIC WALL PANEL ONE-SIDE

P2 2-HR RATED PARTITION WALL
1 1/2" = 1'-0"



UL	U419
STC	51
R-VALUE	-

1-HR RATED INTERIOR PARTITION WALL TO STRUCTURE

WALL TYPE	STUD TYPE	STUD GAUGE	WALL WIDTH	NOTES
P1a	3-5/8"	25	4-7/8"	
P1b	6"	20	7-1/4"	

P1 1-HR RATED PARTITION WALL
1 1/2" = 1'-0"

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Issuance

Mark	Description	Date
	75%CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ASSEMBLY TYPES

Sheet G401

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

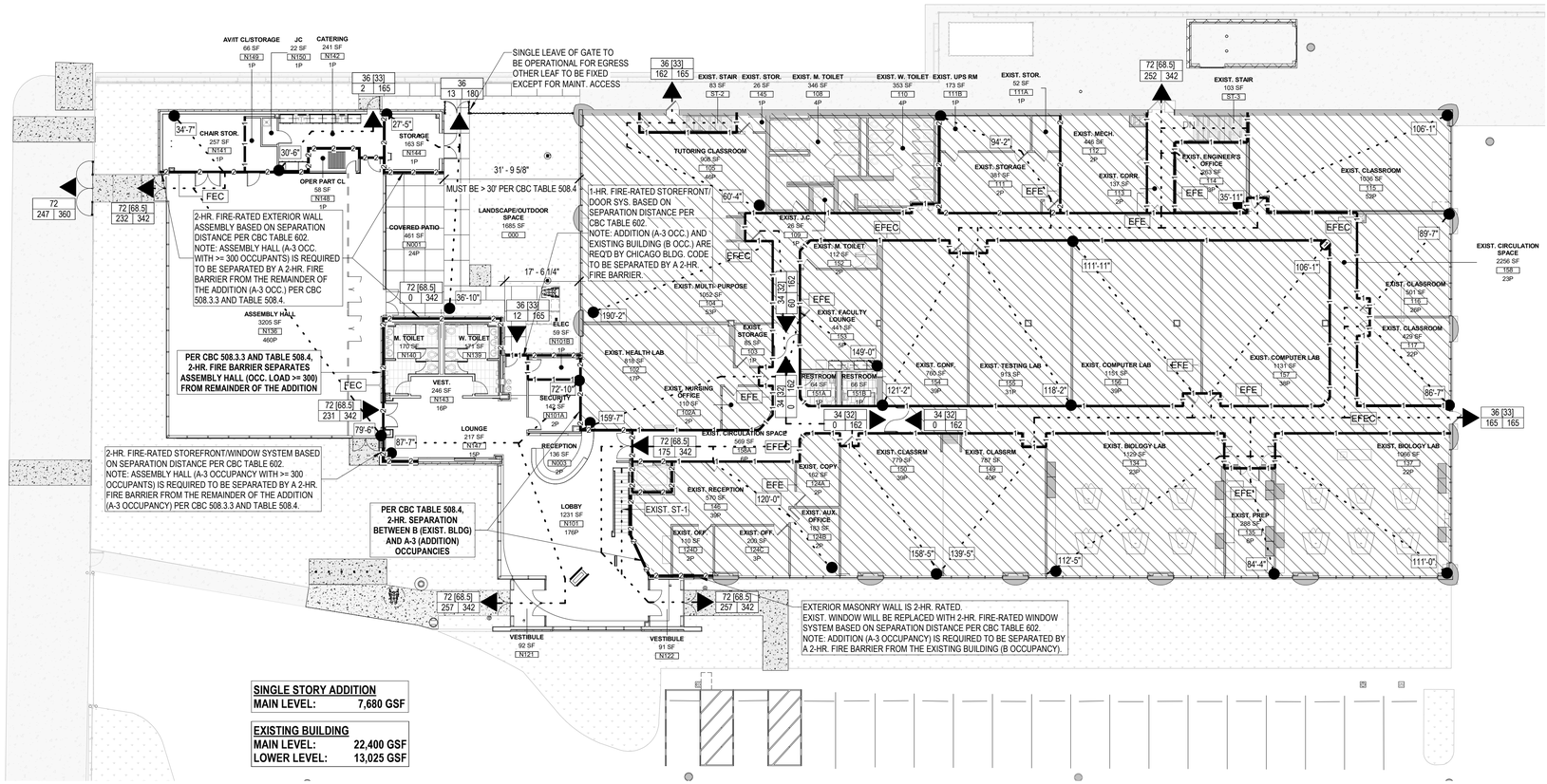
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

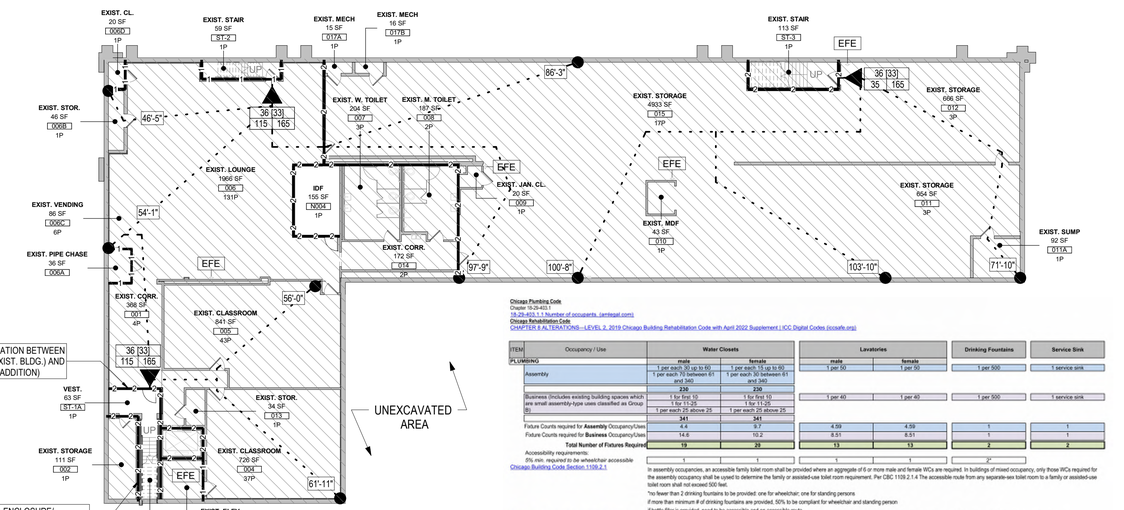
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



SINGLE STORY ADDITION
MAIN LEVEL: 7,680 GSF

EXISTING BUILDING
MAIN LEVEL: 22,400 GSF
LOWER LEVEL: 13,025 GSF

1 MAIN LEVEL CODE PLAN
1/16" = 1'-0"



2 LOWER LEVEL CODE PLAN
1/16" = 1'-0"

Chicago Plumbing Code
Chapter 18-29-403.1
18-29-403.1.1 Number of occupants. (amlegal.com)
Chicago Rehabilitation Code
CHAPTER 8 ALTERATIONS—LEVEL 2, 2019 Chicago Building Rehabilitation Code with April 2022 Supplement | ICC Digital Codes (icosafe.org)

ITEM	Occupancy / Use	Water Closets		Lavatories		Drinking Fountains	Service Sink
PLUMBING		male	female	male	female		
	Assembly	1 per each 30 up to 50 1 per each 75 between 51 and 340	1 per each 15 up to 60 1 per each 30 between 61 and 340	1 per 50	1 per 50	1 per 500	1 service sink
		236	236				
	Business (Includes existing building spaces which are small assembly-type uses classified as Group B)	1 for first 10 1 for 11-25 1 per each 25 above 25	1 for first 10 1 for 11-25 1 per each 25 above 25	1 per 40	1 per 40	1 per 500	1 service sink
		341	341				
	Fixture Counts required for **Assembly** Occupancy/Uses	4.4	9.7	4.59	4.59	1	1
	Fixture Counts required for **Business** Occupancy/Uses	14.8	19.2	8.51	8.51	1	1
	Total Number of Fixtures Required	**19**	**30**	**13**	**13**	**2**	**2**
	Accessibility requirements: 5% min. required to be wheelchair accessible	1	1	1	1	2*	

Chicago Building Code Section 1109.2.1
In assembly occupancies, an accessible family toilet room shall be provided where an aggregate of 6 or more male and female WCs are required. In buildings of mixed occupancy, only those WCs required for the assembly occupancy shall be used to determine the family or assisted-use toilet room requirement. Per CBC 1109.2.1.4 The accessible route from any separate-sex toilet room to a family or assisted-use toilet room shall not exceed 500 feet.
*no fewer than 2 drinking fountains to be provided: one for wheelchair; one for standing persons
if more than minimum # of drinking fountains are provided, 50% to be compliant for wheelchair and standing person
if bottle filler is provided, need to be accessible and on accessible route
Where the occupant load of a story is increased by more than 20%, plumbing fixtures for the story shall be provided per the Chicago Plumbing Code based on the increased occupant load.

Chicago Rehabilitation Code Section 808.1 Level 2 Alterations Minimum Plumbing Fixtures

Existing Conditions:	*Main Level*	*Mens #108:* **4 WC + 1 urinals** *Mens #152:* **2 WC**	*Womens #110:* **11 WC** *Womens #151:* **2 WC** *This will be converted to All Gender Bathroom with (2) Lavs and (2) WC*	*Mens #108:* **3 LAVS** *Mens #152:* **2 LAVS**	*Womens #110:* **4 LAVS** *Womens #151:* **2 LAVS** *This will be converted to* ***All Gender Bathroom with (2) Lavs and (2) WC***	*Existing Circulation #158:* **2 DF**	
	Lower Level	*Mens #008:* **2 WC + 2 urinals**	*Womens #007:* **3 WC**	*Mens #008:* **2 LAVS** *(2) WC*	*Womens #007:* **2 LAVS**	*Corridor #014:* **2 DF**	
	Total Existing Fixtures Provided	*8 + 10 = 18*	*16*	*9*	*8*	*4*	*1*
Addition:							
	Total Addition Fixtures Provided (incl. accessible)	*Mens N140:* **3 WC** 3	*Womens N139:* **3 WC** 3	*Mens N140:* **3 LAVS** 3	*Womens N139:* **3 LAVS** 3	*Existing Corridor:* **2 DF** 2	1
	Total fixtures (new and existing) Provided	*9 + 10 = 21*	**19**	**12**	**11**	**6**	**2**

CODE PLAN LEGEND AND NOTES

1 HR FIRE RATED WALL — FOR ELECTRICAL ROOM

2 HR FIRE RATED WALL — FOR BARRIER BETWEEN N.I.C. AND PROJECT SCOPE

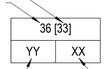
SEE CODE MATRIX ON SHEET G200 FOR FIRE-RESISTANCE RATINGS FOR TYPE IB CONSTRUCTION PER CBC TABLE 601

EGRESS PATH OF TRAVEL

PER CBC TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIST ACCESS DOORWAY
75 FT. COMMON PATH OF TRAVEL FOR ASSEMBLY OCCUPANCY / NON-SPRINKLERED - ADDITION
75 FT. COMMON PATH OF TRAVEL FOR BUSINESS OCCUPANCY / NON-SPRINKLERED - EXISTING BUILDING

PER CBC TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:
200 FT. MAX. FOR ASSEMBLY OCCUPANCY / NON-SPRINKLERED - ADDITION
200 FT. MAX. FOR BUSINESS OCCCUPANCY / NON-SPRINKLERED - EXISTING BUILDING

EXIT WIDTH: [CLEAR] INCHES APPLIES TO DOORS
EXIT WIDTH: ACTUAL INCHES



YY = NUMBER OF OCCUPANTS ASSIGNED TO EXIT
XX = NUMBER OF OCCUPANTS MAXIMUM CAPACITY OF EXIT

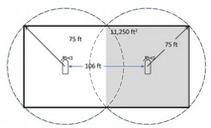
PER CBC SECT. 1005.3 MEANS OF EGRESS SIZING:
- DOOR EGRESS CAPACITY FACTOR = 0.2 INCHES PER OCCUPANT
  36" SINGLE DOOR: 33" CLEAR / 0.2" PER OCCUPANT = MAX. 165 OCCUPANTS
  72" PAIR OF DOORS: 68.5" CLEAR WIDTH / 0.2" PER OCCUPANT = MAX. 342 OCCUPANTS
- STAIRWAY EGRESS CAPACITY FACTOR = 0.3 INCHES PER OCCUPANT
  STAIRWAYS: CLEAR WIDTH IN INCHES / 0.3" PER OCCUPANT = MAX. OCCUPANTS

WALL-MOUNTED FIRE EXTINGUISHER — NOTE: EFE IS EXISTING FE TO REMAIN — FE / EFE

FIRE EXTINGUISHER IN CABINET — NOTE: EFEC IS EXISTING FEC TO REMAIN — FEC / EFEC

SEE G300 FOR MOUNTING HEIGHTS

AREA NOT IN SCOPE OF WORK



Occupancy Load Schedule

Number	Name	Area	Occupancy	Occupancy Load Factor	Occupants
LOWER LEVEL FLOOR PLAN					
001	EXIST. CORR.	368 SF	BUSINESS	100	4
002	EXIST. STORAGE	111 SF	STORAGE	300	1
003	EXIST. ELEV. MACHINE RM	77 SF	MECH/ELEC	300	1
004	EXIST. CLASSROOM	726 SF	CLASSROOM	20	37
005	EXIST. CLASSROOM	841 SF	CLASSROOM	20	43
006	EXIST. LOUNGE	1966 SF	ASSEMBLY	15	131
006B	EXIST. STOR.	46 SF	STORAGE	300	1
006C	EXIST. VENDING	86 SF	ASSEMBLY	15	6
006D	EXIST. CL.	20 SF	STORAGE	300	1
007	EXIST. W. TOILET	204 SF	BUSINESS	100	3
008	EXIST. M. TOILET	187 SF	BUSINESS	100	2
009	EXIST. JAN. CL.	20 SF	STORAGE	300	1
010	EXIST. MDF	43 SF	MECH/ELEC	300	1
011	EXIST. STORAGE	654 SF	STORAGE	300	3
011A	EXIST. SUMP	92 SF	MECH/ELEC	300	1
012	EXIST. STORAGE	666 SF	STORAGE	300	3
013	EXIST. STOR.	34 SF	STORAGE	300	1
014	EXIST. CORR.	172 SF	BUSINESS	100	2
015	EXIST. STORAGE	4933 SF	STORAGE	300	17
017A	EXIST. MECH	15 SF	MECH/ELEC	300	1
017B	EXIST. MECH	16 SF	MECH/ELEC	300	1
N004	IDF	155 SF	MECH/ELEC	300	1
ST-1	EXIST. STAIR	65 SF	CIRCULATION	100	1
ST-1A	VEST.	63 SF	CIRCULATION	100	1
ST-2	EXIST. STAIR	59 SF	CIRCULATION	100	1
ST-3	EXIST. STAIR	113 SF	CIRCULATION	100	1
					266
FIRST FLOOR					
000	LANDSCAPE/OUTDOOR SPACE	1685 SF	LANDSCAPE	0	0
102	EXIST. HEALTH LAB	818 SF	VOCATIONAL ROOM	50	17
102A	EXIST. NURSING OFFICE	110 SF	BUSINESS	100	2
103	EXIST. STORAGE	85 SF	STORAGE	300	1
104	EXIST. MULTI- PURPOSE	1052 SF	CLASSROOM	20	53
105	TUTORING CLASSROOM	908 SF	CLASSROOM	20	46
108	EXIST. M. TOILET	346 SF	TOILET ROOM	100	4
109	EXIST. J.C.	26 SF	STORAGE	300	1
110	EXIST. W. TOILET	353 SF	TOILET ROOM	100	4
111	EXIST. STORAGE	381 SF	STORAGE	300	2
111A	EXIST. STOR.	52 SF	STORAGE	300	1
111B	EXIST. UPS RM	173 SF	STORAGE	300	1
112	EXIST. MECH.	446 SF	MECH/ELEC	300	2
113	EXIST. CORR.	137 SF	CIRCULATION	100	2
114	EXIST. ENGINEER'S OFFICE	263 SF	BUSINESS	100	3
115	EXIST. CLASSROOM	1036 SF	CLASSROOM	20	52
116	EXIST. CLASSROOM	501 SF	CLASSROOM	20	26
117	EXIST. CLASSROOM	429 SF	CLASSROOM	20	22
124A	EXIST. COPY	162 SF	BUSINESS	100	2
124B	EXIST. AUX. OFFICE	183 SF	BUSINESS	100	2
124C	EXIST. OFF.	200 SF	BUSINESS	100	3
124D	EXIST. OFF.	110 SF	BUSINESS	100	2
134	EXIST. BIOLOGY LAB	1129 SF	VOCATIONAL ROOM	50	23
135	EXIST. PREP	288 SF	VOCATIONAL ROOM	50	6
137	EXIST. BIOLOGY LAB	1066 SF	VOCATIONAL ROOM	50	22
145	EXIST. STOR.	26 SF	STORAGE	300	1
146	EXIST. RECEPTION	570 SF	BUSINESS	100	39
149	EXIST. CLASSRM	787 SF	CLASSROOM	20	40
150	EXIST. CLASSRM	779 SF	CLASSROOM	20	39
151A	RESTROOM	64 SF	BUSINESS	100	1
151B	RESTROOM	66 SF	BUSINESS	100	1
152	EXIST. M. TOILET	112 SF	TOILET ROOM	100	2
153	EXIST. FACULTY LOUNGE	441 SF	BUSINESS	100	5
154	EXIST. CONF.	760 SF	CLASSROOM	20	39
155	EXIST. TESTING LAB	913 SF	VOCATIONAL ROOM	30	31
156	EXIST. COMPUTER LAB	1151 SF	VOCATIONAL ROOM	30	39
157	EXIST. COMPUTER LAB	1131 SF	VOCATIONAL ROOM	30	38
158	EXIST. CIRCULATION SPACE	2256 SF	BUSINESS	100	23
158A	EXIST. CIRCULATION SPACE	569 SF	BUSINESS	100	6
N001	COVERED PATIO	461 SF	ASSEMBLY	20	24
N003	RECEPTION	136 SF	BUSINESS	100	2
N101	LOBBY	1231 SF	ASSEMBLY	7	176
N101A	SECURITY	142 SF	BUSINESS	100	2
N101B	ELEC	59 SF	MECH/ELEC	300	1
N121	VESTIBULE	92 SF	CIRCULATION	0	0
N122	VESTIBULE	91 SF	CIRCULATION	0	0
N136	ASSEMBLY HALL	3205 SF	ASSEMBLY	7	460
N139	W. TOILET	171 SF	TOILET ROOM	0	0
N140	M. TOILET	170 SF	TOILET ROOM	0	0
N141	CHAIR STOR.	257 SF	STORAGE	300	1
N142	CATERING	241 SF	SERVICE AREA	200	1
N143	VEST.	246 SF	ASSEMBLY	15	16
N144	STORAGE	163 SF	STORAGE	300	1
N147	LOUNGE	217 SF	ASSEMBLY	15	15
N148	OPER PART CL	58 SF	STORAGE	300	1
N149	AV/IT CL/STORAGE	66 SF	STORAGE	100	1
N150	JC	22 SF	STORAGE	100	1
ST-2	EXIST. STAIR	83 SF	BUSINESS	100	0
ST-3	EXIST. STAIR	103 SF	BUSINESS	100	0
					1305

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WSLC ADDITION & RENOVATIONS

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
CODE PLANS

Sheet G500

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

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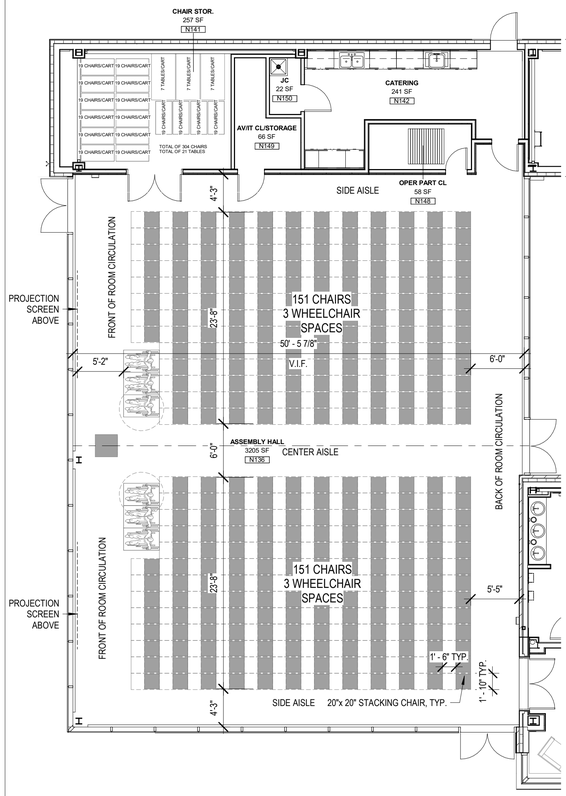

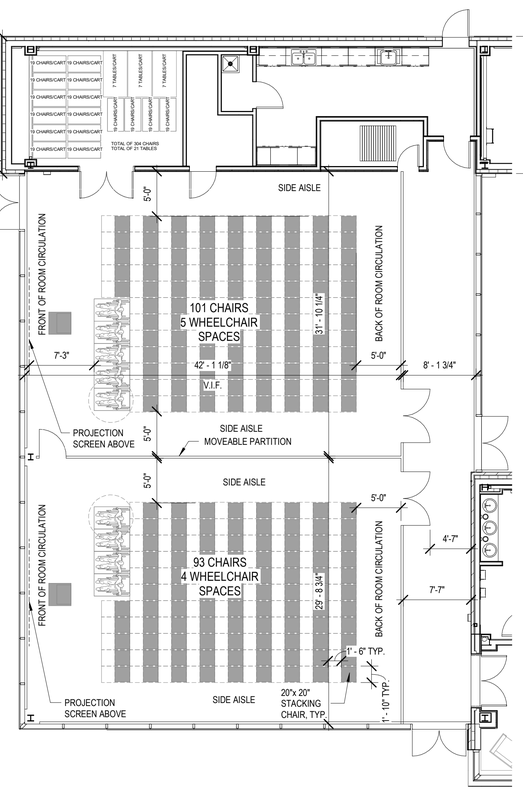

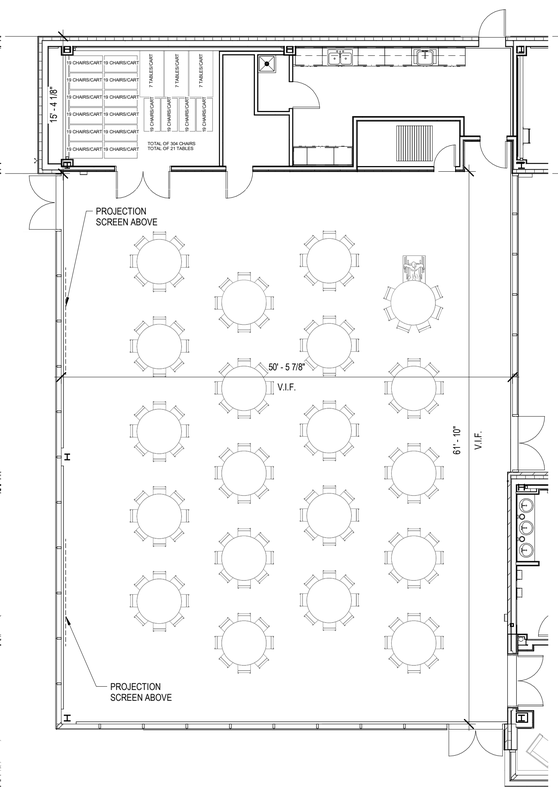

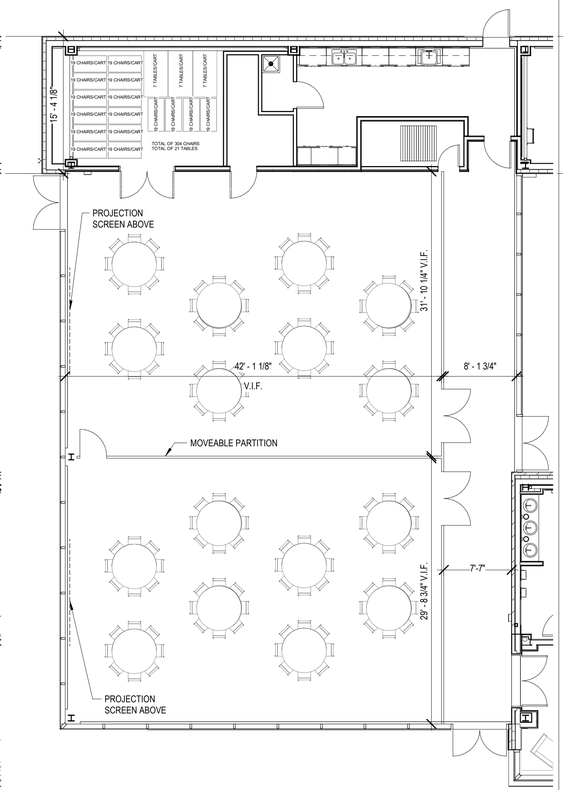

ASSEMBLY HALL N136
3,214 SF / 7 NSF PER OCCUPANT = **460 OCCUPANTS**
PER CBC TABLE 1004.5 ASSEMBLY WITHOUT FIXED SEATS CONCENTRATED (CHAIRS ONLY - NOT FIXED)

SINGLE ROOM LAYOUT
151 CHAIRS WEST+ 151 CHAIRS EAST = **302 CHAIRS** TOTAL
5 WHEELCHAIR SPACES PER CBC TABLE 1108.2.2.1 AND ADA TABLE 221.2.1 WHEELCHAIR SPACES IN ASSSEMBLY AREAS

ASSEMBLY HALL N136
3,214 SF / 7 NSF PER OCCUPANT = **460 OCCUPANTS**
PER CBC TABLE 1004.5 ASSEMBLY WITHOUT FIXED SEATS CONCETRATED (CHAIRS ONLY - NOT FIXED)

DOUBLE ROOM LAYOUT
101 CHAIRS WEST+ 93 CHAIRS EAST = **194 CHAIRS** TOTAL
9 WHEELCHAIR SPACES PER CBC TABLE 1108.2.2.1 AND ADA TABLE 221.2.1 WHEELCHAIR SPACES IN ASSSEMBLY AREAS

ASSEMBLY HALL N136
3,214 SF / 15 NSF PER OCCUPANT = **214 OCCUPANTS**
PER CBC SECTION 1108.2.9.1 ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES & CHAIRS)

SINGLE ROOM LAYOUT
20 TABLES + 158 CHAIRS
1 WHEELCHAIR SPACE PER CBC SECTION 1108.2.9.1 AND ADA TABLE 226.1. WHEELCHAIR SPACES IN ASSSEMBLY AREAS

ASSEMBLY HALL N136
3,214 SF / 15 NSF PER OCCUPANT = **214 OCCUPANTS**
PER CBC SECTION 1108.2.9.1 ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES & CHAIRS)

SINGLE ROOM LAYOUT
16 TABLES + 124 CHAIRS
2 WHEELCHAIR SPACES PER CBC SECTION 1108.2.9.1 AND ADA TABLE 226.1. WHEELCHAIR SPACES IN ASSSEMBLY AREAS

SINGLE ROOM WITH CHAIRS

1 ASSEMBLY HALL SEATING PLAN
1/8" = 1'-0"

DOUBLE ROOM WITH CHAIRS

2 ASSEMBLY HALL SEATING PLAN
1/8" = 1'-0"

SINGLE ROOM WITH TABLES & CHAIRS

3 ASSEMBLY HALL SEATING PLAN
1/8" = 1'-0"

DOUBLE ROOM WITH TABLES & CHAIRS

4 ASSEMBLY HALL SEATING PLAN
1/8" = 1'-0"

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WSLC ADDITION & RENOVATIONS
15' - 4 1/8"

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Chicago, IL 60608
312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

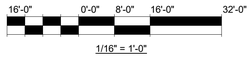
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

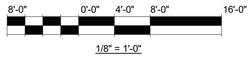
Project No.: BED 022137 / PBC 03720

Title
ASSEMBLY HALL SEATING ARRANGEMENTS

Sheet
G501



1/16" = 1'-0"



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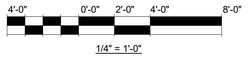

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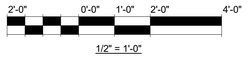
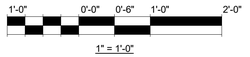
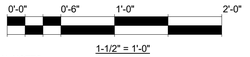


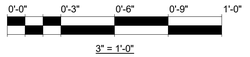
1/2" = 1'-0"



1" = 1'-0"



1-1/2" = 1'-0"



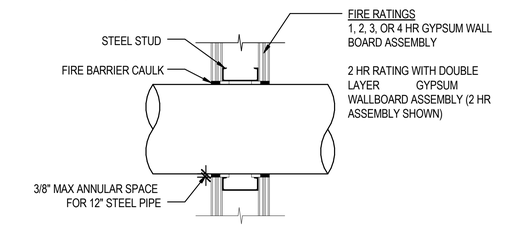
3" = 1'-0"

GENERAL NOTES:

1. FIRESTOPPING DETAILS ILLUSTRATED SHOW TYPICAL CONDITIONS OF PENETRATING ITEMS. IT IS NOT THE INTENT TO SHOW ACTUAL , SPECIFIC PROJECT CONDITIONS OR ALL POSSIBLE COMBINATIONS OF PENETRATING ITEMS WITH ALL TYPES OF PARTITIONS, FLOOR OR ROOF CONSTRUCTION.
2. ILLUSTRATIONS SHOWN ARE TO BE USED IN CONJUNCTION WITH THE SPECIFICATION "SECTION 07 84 13 - FIRESTOPPING". ILLUSTRATIONS DO NOT SHOW OR DESCRIBE ALL THE CRITERIA THAT IS IN THE U.L. SYSTEMS - FIRE RESISTANCE DIRECTORY, EACH FIRESTOPPING SYSTEM IS TO BE INSTALLED PER APPLICABLE U.L. SYSTEMS NUMBER AND ITS INSTALLATION REQUIREMENTS IN THE LATEST EDITION OF UNDERWRITERS LABORATORIES INC. "FIRE RESISTANCE DIRECTORY - VOLUME II".
3. FOR RENOVATION WORK WHERE OPENINGS AROUND PENETRATING ITEM(S) IN EXISTING WALLS, PARTITIONS, FLOORS AND ROOFS DO NOT MEET U.L. SYSTEM REQUIREMENTS, THEN THE OPENING SHALL BE INFILLED, BY THE GENERAL CONTRACTOR, WITH MATCHING WALL, PARTITION, FLOOR OR ROOF CONSTRUCTION MATERIALS TO COMPLY WITH THE ANNULAR OPENING SIZE REQUIREMENT OF THE U.L. SYSTEM. WHERE THE OPENING CANNOT BE CLOSED DUE TO EXISTING CONDITIONS OR QUANTITY AND TYPE OF PENETRATING ITEM(S), THEN THE FIRESTOPPING CONTRACTOR SHALL OBTAIN AN ENGINEERING JUDGMENT RECOMMENDATION OF THE U.L. SYSTEM TO BE USED FROM THE ENGINEERING DEPARTMENT OF THE MANUFACTURER OF THE FIRESTOPPING MATERIALS. THIS JUDGMENT SHALL BE VERIFIED BY UNDERWRITERS LABORATORIES. THE ENGINEERING JUDGMENT AND THE U.L. VERIFICATION SHALL BE SUBMITTED AS WRITTEN AND/OR GRAPHIC DOCUMENTATION.
4. FOR NEW CONSTRUCTION WHERE THE CONDITION DOES NOT MEET THE REQUIREMENTS OF A U.L. SYSTEM, THEN OBTAIN AN ENGINEERING JUDGMENT AS OUTLINED IN ITEM 3. ABOVE.
5. DETAILS ARE BASED ON MATERIALS/SYSTEMS TESTED BY U.L..
6. FIRESTOPPING IS REQUIRED AT:
   - A. ALL PENETRATIONS OF FIRE RESISTIVE FLOOR AND ROOF CONSTRUCTION, AND FIRE/SMOKE RESISTIVE WALLS AND PARTITIONS RESULTING FROM WORK OF ALL TRADES.
   - B. ALL VOIDS AND JOINTS AT TOP AND BOTTOM OF ALL FIRE/SMOKE RESISTIVE WALLS AND PARTITIONS.
   - C. ALL CONTROL/EXPANSION JOINTS IN ALL FIRE/SMOKE RESISTIVE WALLS AND PARTITIONS AND FIRE RESISTIVE FLOOR AND ROOF CONSTRUCTION.
   - D. ALL PENETRATIONS OF ALL NON-RATED FLOOR AND ROOF CONSTRUCTION, RESULTING FROM WORK OF ALL TRADES, USING THE SAME U.L. SYSTEM REQUIREMENTS FOR A ONE HOUR RATING.
   - E. ALL PENETRATIONS, AND VOIDS, RESULTING FROM WORK OF ALL TRADES, AND ALL VOIDS AND JOINTS AT TOP AND BOTTOM OF ALL NON-RATED PARTITIONS, WHERE PARTITIONS EXTEND FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK, AND TOP OF PARTITION IS CONCEALED BY A CEILING.
   - F. ALL EXPANSION JOINTS OCCURRING IN NON-RATED FLOOR OR ROOF CONSTRUCTION USING THE SAME U.L. SYSTEM REQUIREMENTS FOR A ONE HOUR RATING.

NOMINAL MAX PENETRATING ITEM(S)

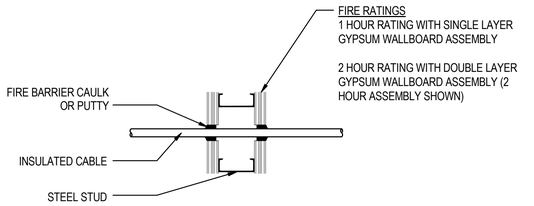
■ 12" STEEL, 12" CAST IRON, 6" CONDUIT, 6" EMT, 6" COPPER



1 SINGLE METAL PIPE/CONDUIT THRU GWB ASSEMBLY
SCALE: 1-1/2" = 1'-0"

NOMINAL MAX PENETRATING ITEM(S)

■ 1 HAIR 24 AWG, 10 AWG ROMEX FIBER OPTIC, 12 AWG CABLE, FOUR CONDUCTOR NO. 2 AWG CABLE



2 INSULATED CABLE THRU GWB ASSEMBLY
SCALE: 1-1/2" = 1'-0"

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

CITY COLLEGES OF CHICAGO

CITY OF CHICAGO, MAYOR BRANDON JOHNSON

Architect of Record:
bailey edward

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PBC Project Name:
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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
FIRESTOPPING DETAILS

Sheet G700

PLAT OF SURVEY

LEGAL DESCRIPTION:

LOTS 2 TO 10 BOTH INCLUSIVE, LOT 39 (EXCEPT THE WEST 16-FEET THEREOF), LOTS 40 TO 47 BOTH INCLUSIVE, IN BLOCK 39 IN WEST CHICAGO LAND COMPANY'S SUBDIVISION OF THE SOUTH HALF OF SECTION 10, TOWNSHIP 39 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN.

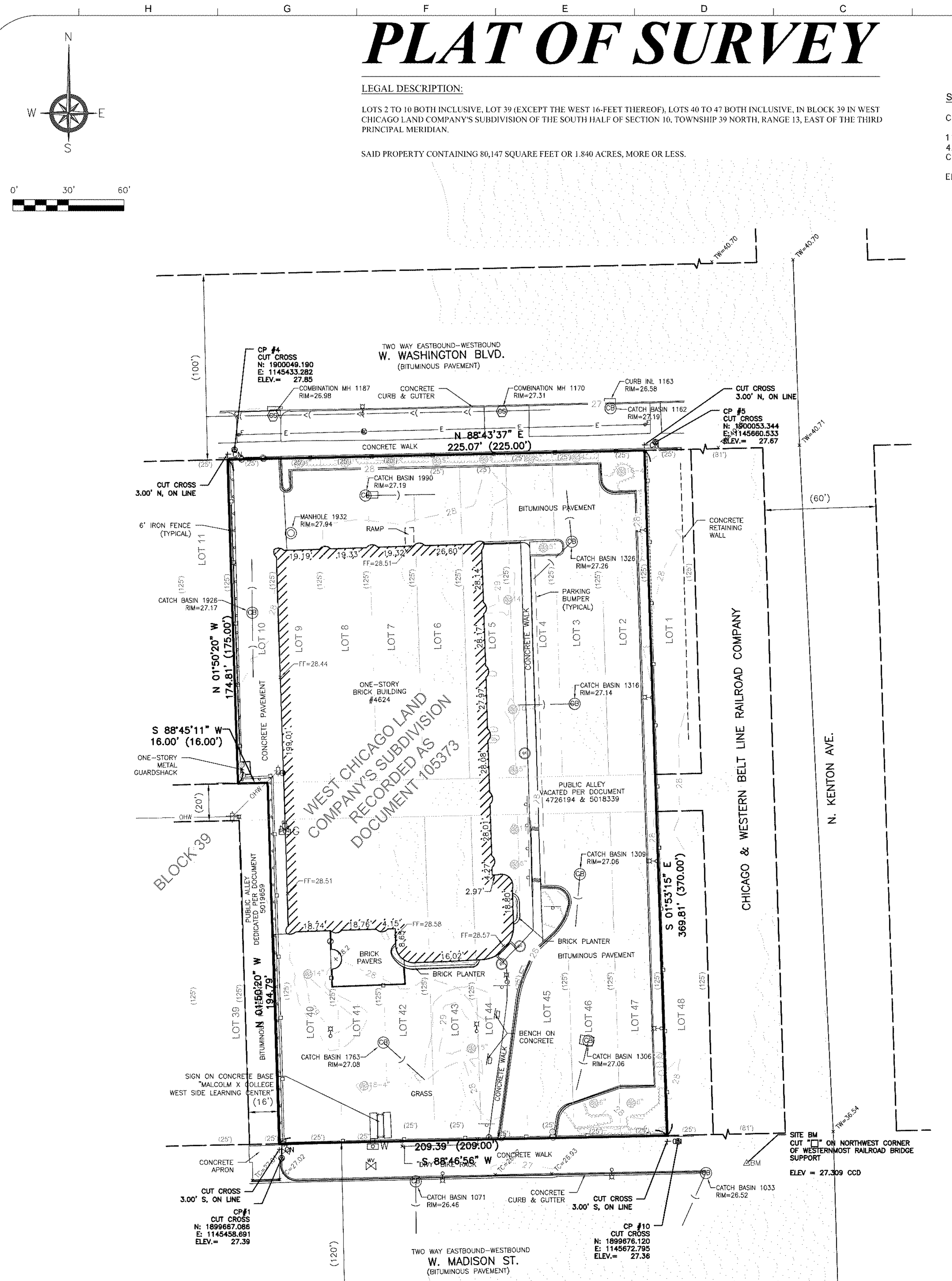
SAID PROPERTY CONTAINING 80,147 SQUARE FEET OR 1.840 ACRES, MORE OR LESS.

SOURCE BENCHMARK:

CITY OF CHICAGO BM 349

11' NORTH OF THE SOUTH LINE OF W CONGRESS PARKWAY 4.7' WEST OF THE WEST LINE OF THE FIRST ALLEY EAST OF S. CICERO AVENUE

ELEV.= 27.987 CITY OF CHICAGO DATUM (CCD)



LEGEND

SYMBOL	DESCRIPTION
+CN	FOUND CROSS NOTCH
BM	BENCHMARK LOCATION
BB	WATER BUFFALO BOX
W	WATER METER
	WATER VALVE
	FIRE HYDRANT
CE	CITY ELECTRIC MANHOLE
E	ELECTRIC METER
	POWER SERVICE
	POWER POLE
	POWER POLE W/ LIGHT
	GAS VALVE
G	GAS METER
CB	CATCH BASIN ROUND
	CURB STORM INLET
	COMBINATION SEWER MANHOLE
	CLEANOUT
	MANHOLE
E	PAINTED ELECTRIC LINE
G	PAINTED GAS LINE
W	PAINTED WATER LINE
	BOLLARD
	STREET LIGHT W/MAST ARM
	SIGN
	POST LOCATION
	GARBAGE CAN
	SHRUB
0"	DECIDUOUS TREE W/SIZE
0"	CONIFEROUS TREE W/SIZE
(100.00')	RECORD BEARING OR DISTANCE
100.00'	MEASURED BEARING OR DISTANCE
T/W	TOP OF WATER
T/D	TOP OF DEBRIS
T/V	TOP OF VALVE
T/P	TOP OF PIPE
BOT	BOTTOM
FF	FINISHED FLOOR
	BUILDING FOOT PRINT
	PROPERTY BOUNDARY
	LOT & PROPERTY LINE
	RIGHT-OF-WAY LINE
)	STORM SEWER LINE
>	SANITARY SEWER LINE
)>	COMBINATION SEWER LINE
W	WATERMAIN
T	COMMUNICATION LINE
G	GAS MAIN
E	ELECTRIC LINE
OHW	OVERHEAD WIRES
X	CHAINLINK FENCE LINE
	WOOD/IRON FENCE LINE
	CONCRETE CURB & GUTTER
	ADA TILE
	HANDRAIL
	STEEL GUARDRAIL
	LIMITS OF LANDSCAPING

SURVEYOR'S NOTES:

1. ALL DIMENSIONS ARE GIVEN IN FEET AND DECIMAL PARTS THEREOF.
2. BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE, NAD83(2011), GPS DERIVED.
3. COMPARE DEED DESCRIPTION AND SITE CONDITIONS WITH THE DATA GIVEN ON THIS PLAT AND REPORT ANY DISCREPANCIES TO THE SURVEYOR AT ONCE.
4. NO DIMENSIONS SHALL BE DERIVED FROM SCALE MEASUREMENT.
5. DISTANCES ALONG CURVES ARE ARC DISTANCES UNLESS OTHERWISE NOTED.
6. THIS SURVEY WAS PERFORMED ON THE GROUND AND COMPLETED 3/9/2018.
7. ONLY THE IMPROVEMENTS THAT WERE VISIBLE FROM ABOVE GROUND AT TIME OF SURVEY AND THROUGH A NORMAL SEARCH AND WALK THROUGH OF THE SITE ARE SHOWN ON THE FACE OF THIS PLAT. LAWN SPRINKLER SYSTEMS, IF ANY, ARE NOT SHOWN ON THIS SURVEY.
8. SURFACE INDICATIONS OF UTILITIES ON THE SURVEYED PARCEL HAVE BEEN SHOWN. UNDERGROUND AND OFFSITE OBSERVATIONS HAVE NOT BEEN MADE TO DETERMINE THE EXTENT OF UTILITIES SERVING OR EXISTING ON THE PROPERTY. PUBLIC AND/OR PRIVATE RECORDS HAVE NOT BEEN SEARCHED TO PROVIDE ADDITIONAL INFORMATION. OVERHEAD WIRES, IF ANY, ARE EXISTING AND THEIR POLES HAVE BEEN SHOWN, HOWEVER THEIR FUNCTION AND DIMENSIONS HAVE NOT BEEN NOTED.
9. OTHER THAN VISIBLE OBSERVATIONS NOTED HEREON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE. CONTROLLED UNDERGROUND EXPLORATORY EFFORT TOGETHER WITH DIGGER IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES. CONTACT DIGGER AT 1-312-744-7000.
10. NO TITLE POLICY WAS PROVIDED TO THE SURVEYOR TO REVIEW DURING THE COURSE OF PREPARING THIS SURVEY.

POINT #	STRUCTURE TYPE	RIM ELEVATION	STRUCTURE INFORMATION	BOTTOM/STRUCTURE
1033	CATCH BASIN	26.52	INV= 21.08 15" UNK W /RESTRICTOR(SW)	20.56
1071	CATCH BASIN	26.46	INV= 21.52 RESTRICTOR (S)	20.44
1162	CATCH BASIN	27.19	INV= 23.55 8" VCP (N)	23.55 (DEBRIS)
1163	INLET	26.58	INV= 24.79 8" VCP (S)	24.79 (DEBRIS)
1170	COMBINATION SEWER	27.31	INV=18.29 15" BRICK (W) INV= 18.30 15" BRICK (E)	18.29 (DEBRIS)
1187	COMBINATION SEWER	26.98	INV= 18.32 15" BRICK (W) INV= 18.34 15" BRICK (E)	18.32 (DEBRIS)
1306	CATCH BASIN	27.06	INV= 23.83 8" VCP (S)	20.47 (DEBRIS)
1309	CATCH BASIN	27.06	INV= 23.75 8" VCP (SSW)	20.39 (DEBRIS)
1316	CATCH BASIN	27.14	INV= 23.57 15" VCP (W)	20.31 (DEBRIS)
1326	CATCH BASIN	27.26	INV = 24.24 12" VCP (N) INV= 24.26 4" VCP (SW)	20.36 (DEBRIS)
1763	CATCH BASIN	27.08	INV=23.15 12" RECESSED (SE)	20.67 (DEBRIS)
1926	CATCH BASIN	27.17	INV=23.54 12" VCP (N) INV= 23.72 12" VCP (S)	21.03 (DEBRIS)
1932	UNKNOWN MH	27.94	UNABLE TO OPEN	N/A
1990	CATCH BASIN	27.19	INV= 23.23 12" VCP (E)	20.35 (DEBRIS)

PRELIMINARY

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

WE, ENVIRONMENTAL DESIGN INTERNATIONAL, INC., ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-001224, HEREBY CERTIFY THAT THE PROPERTY HEREON DESCRIBED WAS SURVEYED UNDER THE DIRECT SUPERVISION OF AN ILLINOIS PROFESSIONAL LAND SURVEYOR, AND THAT THIS PLAT REPRESENTS THE CONDITIONS FOUND AT THE TIME OF SAID SURVEY.

GIVEN UNDER MY HAND AND SEAL THIS 13TH DAY OF MARCH, 2018 IN CHICAGO, ILLINOIS.

ENVIRONMENTAL DESIGN INTERNATIONAL, INC.

WILLIAM J. FLEMING, IPLS NO. 035.003226
LICENSE EXPIRES: 11/30/2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

THIS PLAT IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND A RAISED SEAL.

SHEET NUMBER: 1 OF 1	PROJECT No. 1654.039			
	SCALE: 1" = 30'			
	REVIEWED BY: LAG			
	CHECKED BY: WJF			
	DRAWN BY: MAW			
	FIELD CREW: JF/JT			
	FIELD DATE: 03/09/18			
	DATE: 03/21/18			
	PLAN TYPE			
	PLAT OF SURVEY	No.	Revision/Issue	Date

PROFESSIONAL LAND SURVEYOR WILLIAM J. FLEMING 35-3226 STATE OF ILLINOIS

CLIENT:
BAILEY EDWARD DESIGN, INC.
35 E. WACKER DR., SUITE 2800
CHICAGO, IL 60601

PROJECT:
MALCOLM X WEST SIDE LEARNING CENTER
4624 W. MADISON ST.
CHICAGO, IL 60644

EDI
Environmental Design International inc.
Civil, Survey, Environmental and Construction Inspection Services
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603
Ph. (312) 345-1400 Fax (312)345-0529
www.envdesigni.com MBE/WBE/DBE
Excellence, Dedication, Innovation

PUBLIC BUILDING COMMISSION
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PBC Project Name: West Side Learning Center Addition and Renovations
PBC Contract No: PS3036
Project No.: BED 022137 / PBC 03720
Title
SURVEY

Sheet G800

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

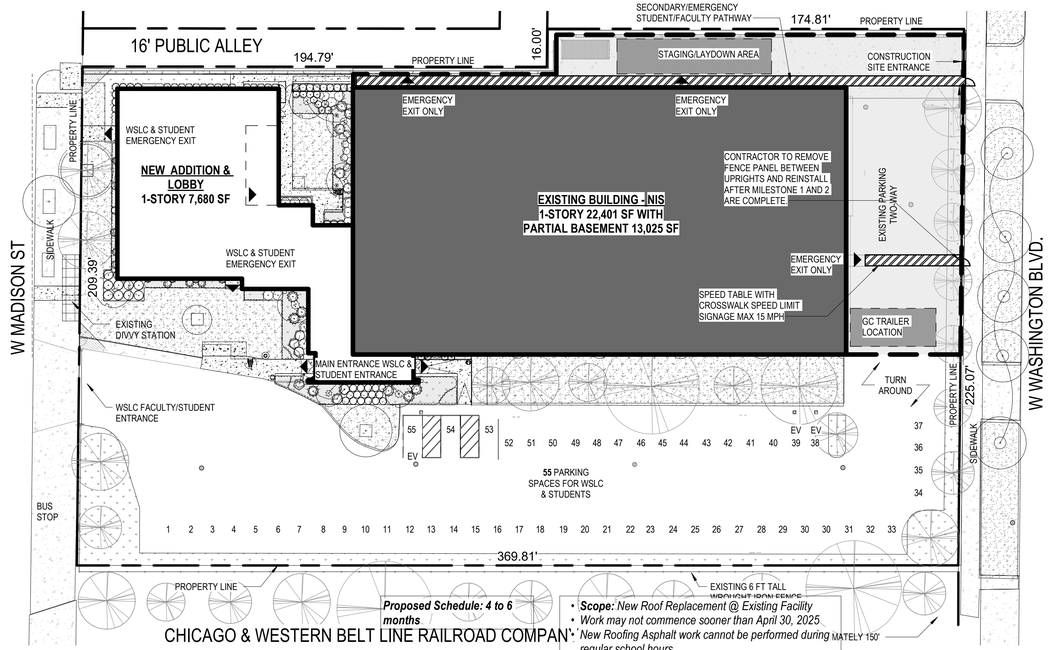
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



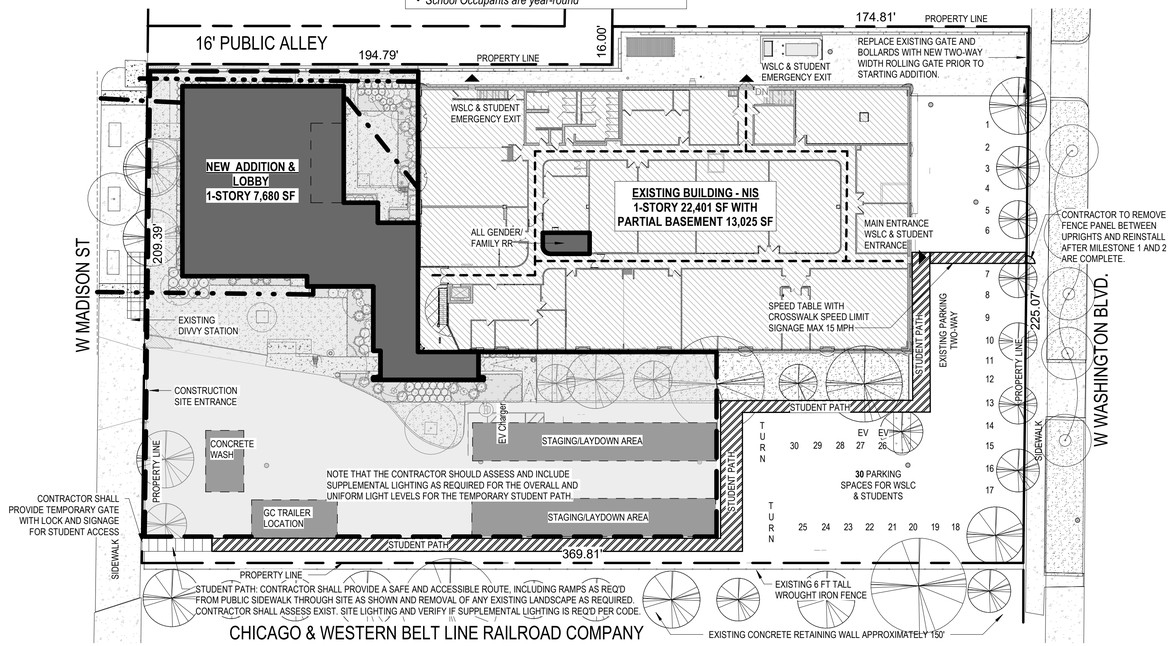
3 **PHASING PLAN - MILESTONE 2**
1" = 30'-0"

Proposed Schedule: 4 to 6 months

- ***Scope:*** *New Roof Replacement @ Existing Facility*
- *Work may not commence sooner than April 30, 2025.*
- *New Roofing Asphalt work cannot be performed during regular school hours*
- *School Occupants are year-round*

Proposed Schedule: 4 to 6 months

- ***Scope:*** *New AHU Replacement*
- *Work may not commence sooner than April 30, 2025*
- *Scope Coordination w/Milestone 1*
- *School Occupants are year-round*



1 **PHASING PLAN - SUBSTANTIAL COMPLETION**
1" = 30'-0"

Proposed Schedule: 12 to 14 months

- ***Scope:*** *New Addition and Site Development*
- *Work may not commence sooner than September 1, 2024*
- *Anticipated Permit Issuance by July 30, 2024*
- *School Occupants are year-round*
- *CTA Temporary Relocation of bus stop anticipated to be 1 block east.*

General Note:
All permits must be in hand prior to construciton.

1. ROW Permit
2. Utility permits: COMEd, DWM (Water), Gas
3. Chicago Building Permit
4. All subcontractor Permit by trade: Electrical, Plumbing, mechanical

PHASING LEGEND

- PROPERTY LINE
- SITE CONSTRUCTION FENCE
- NEW WATER SERVICE
- NEW SEWER SERVICE
- NEW GAS SERVICE
- INTERIOR CORRIDOR
- STUDENT PATH
- EMERGENCY EXIT
- CONSTRUCTION EXTENTS - BLDG
- CONSTRUCTION ELEMENTS
- CONSTRUCTION EXTENTS - SITE

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Title
PHASING PLANS

Sheet
G900

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

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1" = 1'-0"

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1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

WEST SIDE LEARNING CENTER

4624 W MADISON STREET
CHICAGO, ILLINOIS 60644

LOCATION MAP

ABBREVIATIONS

&	AND
AC	AIR CONDITIONING
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALUM	ALUMINUM
APPOX	APPROXIMATELY
BLDG	BUILDING
BD	BOARD
BLKG	BLOCKING
CLR	CLEAR
CONC	CONCRETE
CONST	CONSTRUCTION
CONST	CONSTRUCTION
CONT	CONTINUOUS(ATION)
CONTR	CONTRACT(OR)
COORD.	COORDINATE
CR	CRACK
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EQ	EQUAL
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
EX	EXISTING
EXIST	EXISTING
FIN	FINISH
FOG	FACE OF GLASS
FL	FLASHING
FLR	FLOOR(ING)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GB	GLASS BLOCK
GL	GLASS
HH	HANDHOLE
HM	HOLLOW METAL
HR	HOUR
HW	HARDWARE
HORIZ	HORIZONTAL
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
LF	LINEAR FEET
LCC	LEAD COATED COPPER
MFR	MANUFACTURER
MAX	MAXIMUM
MFR	MANUFACTURER
MEMB	MEMBRANE
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
ORIG	ORIGINAL
PL	PLASTER
PLYWD	PLYWOOD
PR	PRIME
PT	PAINT
PTD	PAINTED
REINF	REINFORCING
REPL	REPLACE (REPLACEMENT)
REQ'D	REQUIRED
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
S	STEEL
SC	SCRAPE
SQ IN	SQUARE INCHES
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SS	STAINLESS STEEL
STD	STANDARD
ST	STONE
STL	STEEL
STRUCT	STRUCTURAL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WD	WOOD
WNDW	WINDOW
W/O	WITHOUT
WT	WEIGHT

SEWER CONSTRUCTION NOTES:

1. PRIOR TO START OF CONSTRUCTION, A PERMIT IS REQUIRED FROM THE SEWER UNIT OF THE DOB FOR ANY UNDERGROUND SEWER WORK INCLUDING ADJUSTMENT OF SEWER STRUCTURES AND REMOVAL/REPLACEMENT OF FRAMES AND LIDS. PERMIT MUST BE OBTAINED BY DRAIN-LAYER CURRENTLY LICENSED FROM THE SEWER UNIT OF THE DOB.

2. SEE SPECIFICATION 01 50 01 "DEPARTMENT OF WATER MANAGEMENT SEWER REQUIREMENTS FOR EXISTING FACILITIES PROTECTION" FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

INDEX OF DRAWINGS

GENERAL NOTES FOR WORK IN THE PUBLIC WAY

1. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" . LATEST EDITION, AND ALL ADDENDA THERETO, AND CITY OF CHICAGO CONSTRUCTION STANDARDS FOR WORK IN THE PUBLIC WAY SHALL GOVERN THE EARTHWORK AND PAVING WORK UNDER THIS CONTRACT.

2. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, SHALL GOVERN THE UNDERGROUND WORK UNDER THE CONTRACT, EXCEPT AS MODIFIED BY THESES SPECIFICATIONS, OR WHERE IN CONFLICT WITH CITY OF CHICAGO STANDARDS.

3. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND CITY OF CHICAGO REGULATIONS AND STANDARDS AND SHALL CONFIRM IN ALL RESPECTS TO ALL STATE AND FEDERAL LAWS AND REGULATIONS.

4. THE CONTRACTORS SHALL NOTIFY ALL UTILITIES COMPANIES FOR FILED LOCATIONS OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION.THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. ANY UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AND ARE GENERAL DIRECTION ONLY. ALL UTILITY LOCATIONS SHOWN MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD.

5. ALL UTILITIES TRENCHES UNDER AND WITHIN TWO FEET OF PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE (GRADE 8 OR 9), COMPACTED IN 9" LIFTS TO 95% OF MODIFIED PROCTOR.

6. UTILITY CONNECTIONS WITHIN THE STREET RIGHT-OF-WAY SHALL BE ACCOMPLISHED BY SAW CUTTING AND REMOVING THE EXISTING PAVEMENT. BACKFILL AND RESTORATION SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF THE DEPT. OF TRANSPORTATION.

DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE MUNICIPALITY, OWNER AND ENGINEER, AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO: THE ILLINOIS LAWS REGARDING STRUCTURAL WORK (IL. REV. STAT. CH.48, PAR.60 AT SEQ.) AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS (IL. REV. STAT. CH.17-1/2 PAR.51 ET. SEQ.). IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OF DAMAGE, OF CLAIMS THEREFORE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

PRIOR TO UNDERTAKING ANY WORK IN THE PUBLIC WAY CONTACT:

- GEORGE BLACK, DEPARTMENT OF TRANSPORTATION, 312-746-6450 RELATIVE TO ANY CITY OF CHICAGO SIGNS, TRAFFIC OR STREET.
- THOMAS STEVENS, DEPARTMENT OF REVENUE RELATIVE TO PARKING METERS, 312-742-6978.
- JOHN WESLOW, CTA, PRIOR TO UNDERTAKING ANY WORK IN THE VICINITY OF ANY BUS SHELTER, 312-681-4217.
- MIKE RASHER, BUREAU OF ELECTRICITY, 312-746-4656.
- ALL WORK IN THE PUBLIC WAY REQUIRES A PERMIT FROM THE OFFICE OF EMERGENCY MANAGEMENT; COMMUNICATIONS TRAFFIC MANAGEMENT AUTHORITY, PERMIT DIVISION, ROOM 901 CITY HALL.
- CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND CHICAGO UTILITY ALERT NETWORK, DIGGER, 2 312-744-7000, 48 HOURS IN ADVANCE BEFORE PERFORMING ANY WORK.

STATE OF ILLINOIS
FARHAD W. MESIA
62-44201
REGISTERED PROFESSIONAL ENGINEER
Exp. Date: 11-30-24
SIGNATURE
3/7/24
SIGNED
PRINCIPAL
TITLE
RUBINOS & MESIA ENGINEERS, INC
FIRM

CERTIFICATION:

THIS CERTIFIED THAT THESE DRAWINGS HAVE BEEN REVIEWED TO THE BEST OF MY KNOWLEDGE AND THAT I BELIEVE THEY ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND ALL CODES AND BUILDING ORDINANCES OF THE CITY OF CHICAGO, STATE OF ILLINOIS.

LICENSED ARCHITECT / LANDSCAPE ARCHITECT / LICENSED ENGINEER

STATE OF ILLINOIS
FARHAD W. MESIA
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS
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CHICAGO IL 60644
CITY COLLEGES OF CHICAGO
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312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title

COVER SHEET

Sheet

C-00

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

GENERAL NOTES

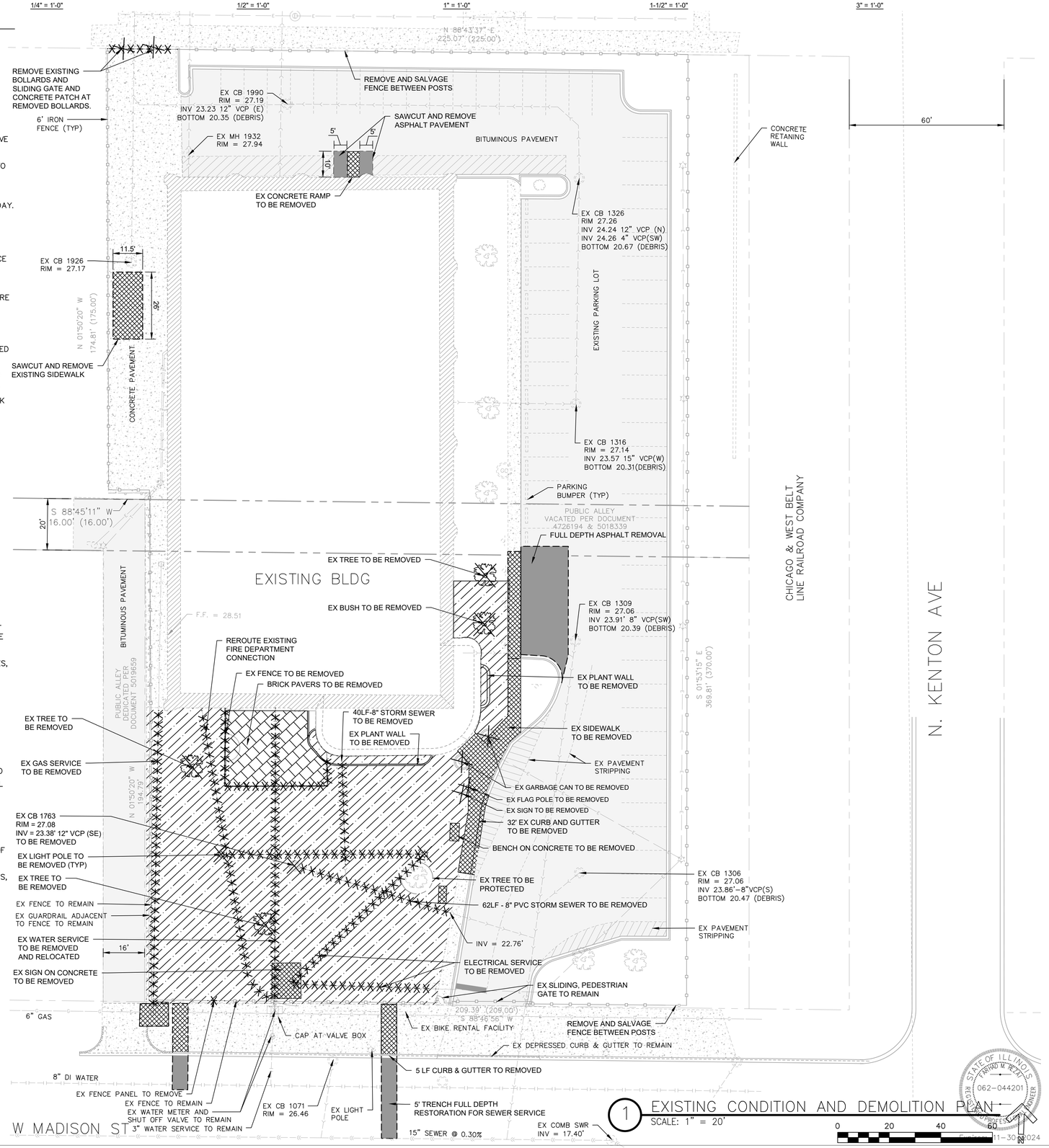
1. THE SURVEY BASE PROVIDED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. THE OWNER, ARCHITECT & ENGINEER(S) ARE NOT RESPONSIBLE FOR ANY MISCHARTED OR UNCHARTED UTILITIES, OR OTHER ERRORS DETECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
2. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
3. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH RESPECTIVE UTILITY.
5. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATIONS.
6. DURING CONSTRUCTION OPERATION, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF THE GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS.
7. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
8. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
9. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
10. THE CONTRACTOR SHALL SECURE ALL PERMITS RELATIVE TO THE PROJECT, PRIOR TO CONSTRUCTION.
11. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THESE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
12. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

DEMOLITION NOTES

1. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
2. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND THAT IS SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.
3. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.
4. WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
5. THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF ALL OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE SERVICE PROVIDER.
6. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF A ILLINOIS REGISTERED LAND SURVEYOR).
7. CONTRACT SHALL NOTIFY DIGGER (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000, 48 HOURS IN ADVANCE OF ANY EXCAVATION OR UTILITY WORK.
8. IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT SHOWN ON THE PLAN WHICH REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
9. THE CONTRACTOR WILL PROTECT ALL UTILITIES, STREETS, STRUCTURES, VEGETATION, AND ADJACENT PROPERTY DESIGNATED TO REMAIN. ANY DAMAGE BY THE CONTRACTOR TO UTILITIES, STREETS, STRUCTURES, VEGETATION AND ADJACENT PROPERTY WILL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR TO ADJUST RIMS OF EXISTING STRUCTURES WITHIN SCOPE OF WORK TO FINAL GRADE ELEVATIONS.
11. EXISTING LATERAL CONNECTIONS FOR UTILITIES SHALL BE COORDINATED WITH THE CORRESPONDING UTILITY COMPANY FOR CAPPING AND CUT OFF WITHIN THE SCOPE OF WORK.
12. THE CONTRACTOR IS TO COMPLY WITH FEDERAL, STATE, AND LOCAL ORDINANCES WITH REGARD TO REMOVAL AND DISPOSAL OF MATERIALS FOR ALL ITEMS TO BE DEMOLISHED. WORK INCLUDES THE COMPLETE REMOVAL AND LEGAL DISPOSAL OF ALL OBJECTS AND MATERIALS (REGARDLESS OF THEIR NATURE) INCLUDING BUT NOT LIMITED TO TREE ROOTS, ORGANIC SOIL, DRUMS, TIRES, WOOD, BROKEN CONCRETE PIECES, AND FENCES ABOVE THE REQUIRED ELEVATION.
13. BURNING ON THE PROPERTY IS NOT PERMITTED.
14. FOR ELECTRICAL AND EXTERIOR LIGHTING DEMOLITION, SEE SHEET ELECTRICAL PLANS.

LEGEND:

- LANDSCAPE REMOVAL
- CONCRETE SIDEWALK AND CURB REMOVAL
- EXISTING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT RESTORATION
- SAWCUT
- DEMOLITION SERVICE / UTILITIES
- EXISTING FENCE
- EXISTING GUARD RAIL
- GARBAGE CAN
- LIGHT POLE
- SIGN
- BUSH
- DEMO ITEM
- TREE



1 EXISTING CONDITION AND DEMOLITION PLAN
SCALE: 1" = 20'
0 20 40 60

STATE OF ILLINOIS · EDWARD W. HITCHCOCK · 062-044201 · REGISTERED PROFESSIONAL ENGINEER · Expires 11-30-2024

PUBLIC BUILDING COMMISSION OF CHICAGO
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

Architect of Record:
bailey edward

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Issuance

Mark	Description	Date
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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXISTING CONDITION AND DEMOLITION PLAN

Sheet
C-100

1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 1" = 1'-0" 1-1/2" = 1'-0" 3" = 1'-0"

GENERAL NOTES

A. THE DRAWINGS CONTAINED HEREIN SHALL BE USED IN CONJUNCTION WITH THE PROJECT MANUAL. ALL GENERAL CONDITIONS, PROJECT REQUIREMENTS AND TECHNICAL SPECIFICATIONS APPLY TO THE WORK.

B. ALL WORK SHALL MEET ALL APPLICABLE FEDERAL, STATE, AND CITY OF CHICAGO CODES AND REGULATIONS THAT GOVERN THE WORK.

C. REVIEW DOCUMENTS, VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD AND CONFIRM THAT THE WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS IN WRITING TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.

D. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT PRIOR TO WORKING IN THE AREA IN QUESTION.

E. SUBMIT REQUESTS FOR INFORMATION (RFI) IN A TIMELY MANNER IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.

F. PROTECT ALL AREAS (AND PROPERTY) FROM DAMAGE RESULTING FROM THE WORK. REPAIR ANY DAMAGE RESULTING FROM THE WORK TO THE SATISFACTION OF THE OWNER. RETURN ALL AREAS AFFECTED BY THE WORK TO THEIR ORIGINAL CONDITION.

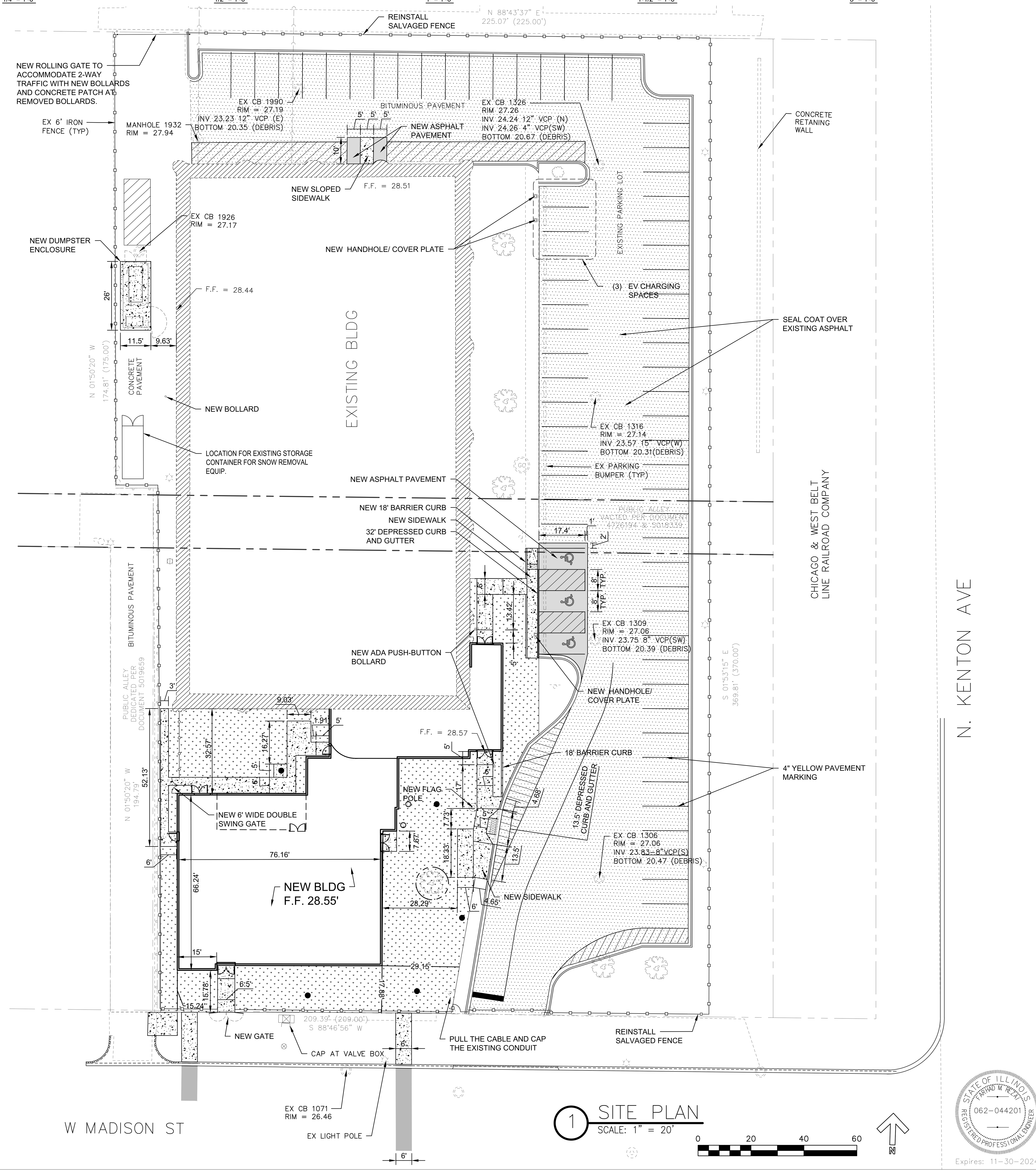
G. REMOVE DEBRIS FROM THE JOB SITE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND ALL GOVERNING AGENCIES. DO NOT ALLOW DEBRIS TO ACCUMULATE ON THE JOB SITE.

H. PROTECT TREES, LAWN, AND PLANTS FROM DAMAGE. IF DAMAGED, CONTRACTOR IS RESPONSIBLE FOR REPLACING THEM IN KIND.

TOTAL DISTURBED AREA	= 14,973	SF
TOTAL PROPOSED BUILDING ROOF AREA	= 5,743	SF
TOTAL PROPOSED IMPERVIOUS AREA	= 2,478	SF
TOTAL PROPOSED PERVIOUS AREA	= 6,752	SF

LEGEND:

- NEW CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT RESTORATION
- NEW SEAL COAT
- LANDSCAPE AREA



1 SITE PLAN
SCALE: 1" = 20'

0 20 40 60

STATE OF ILLINOIS · REGISTERED PROFESSIONAL ENGINEER · 062-044201
Expires: 11-30-2024

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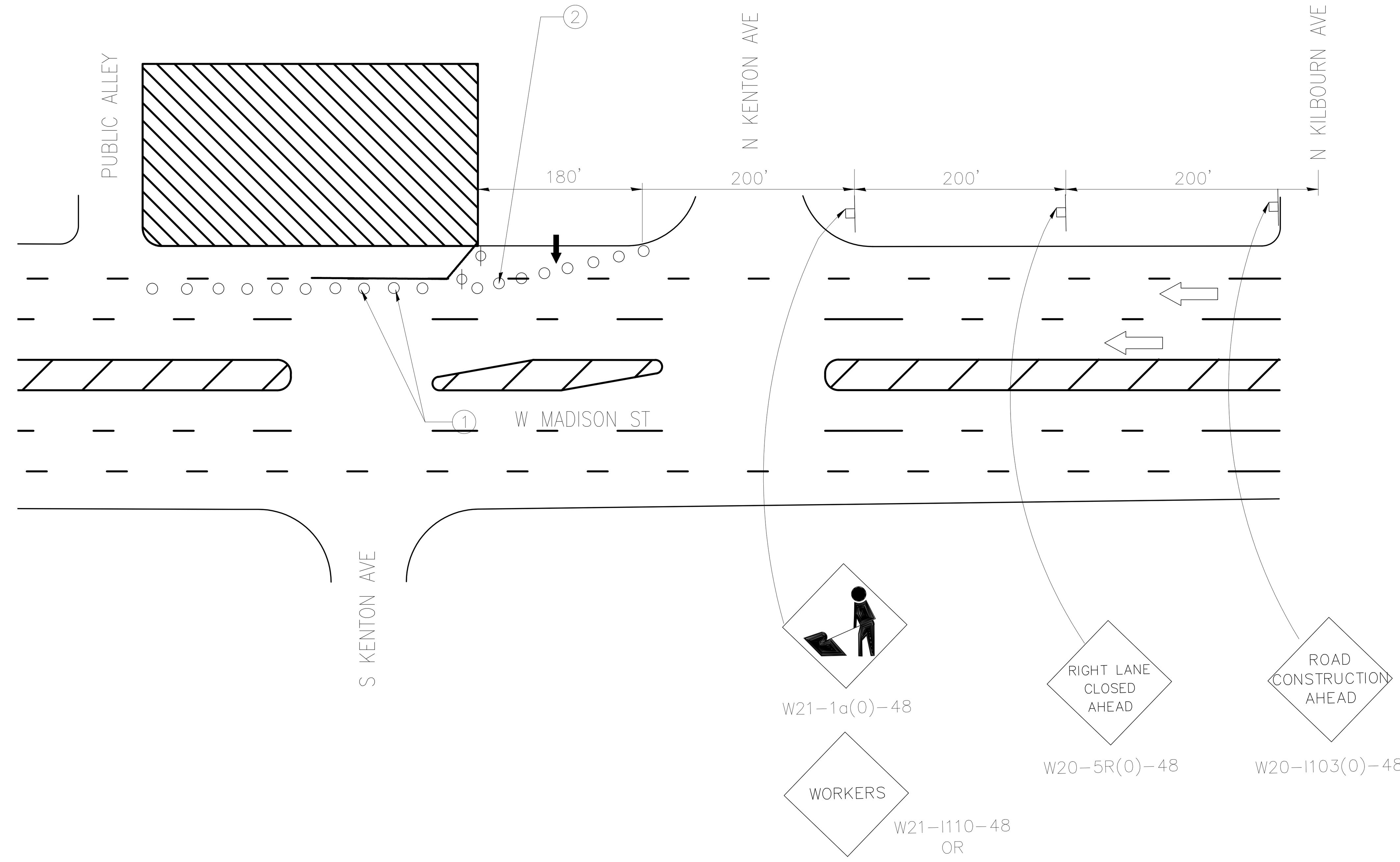
PBC Contract No: PS3036
Project No.: BED 022137 / PBC 03720
Title
SITE PLAN
Sheet
C-200

1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 1" = 1'-0" 1-1/2" = 1'-0" 3" = 1'-0"



2 CDOT STANDARD SIGNAGE PLAN
SCALE: N.T.S

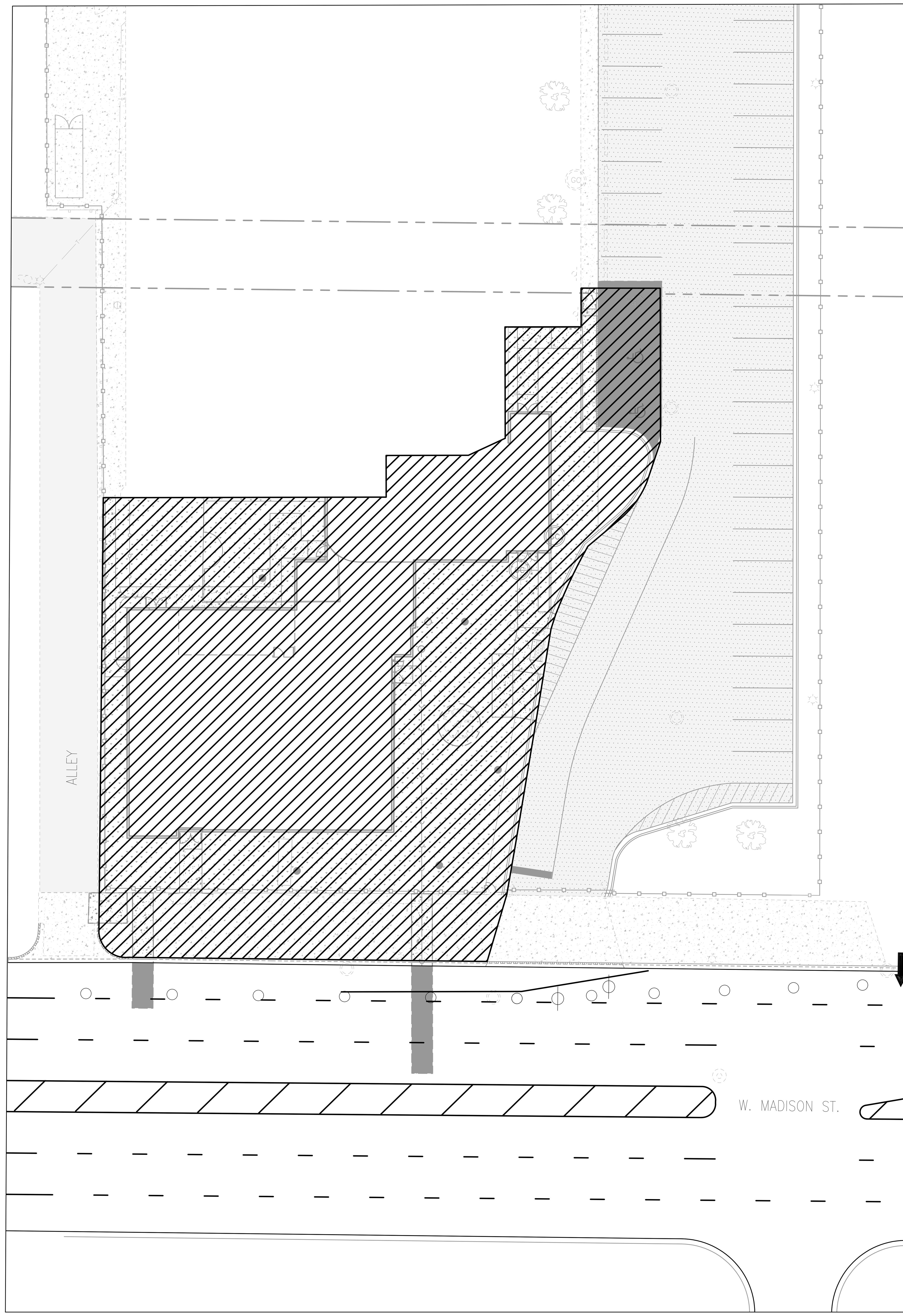
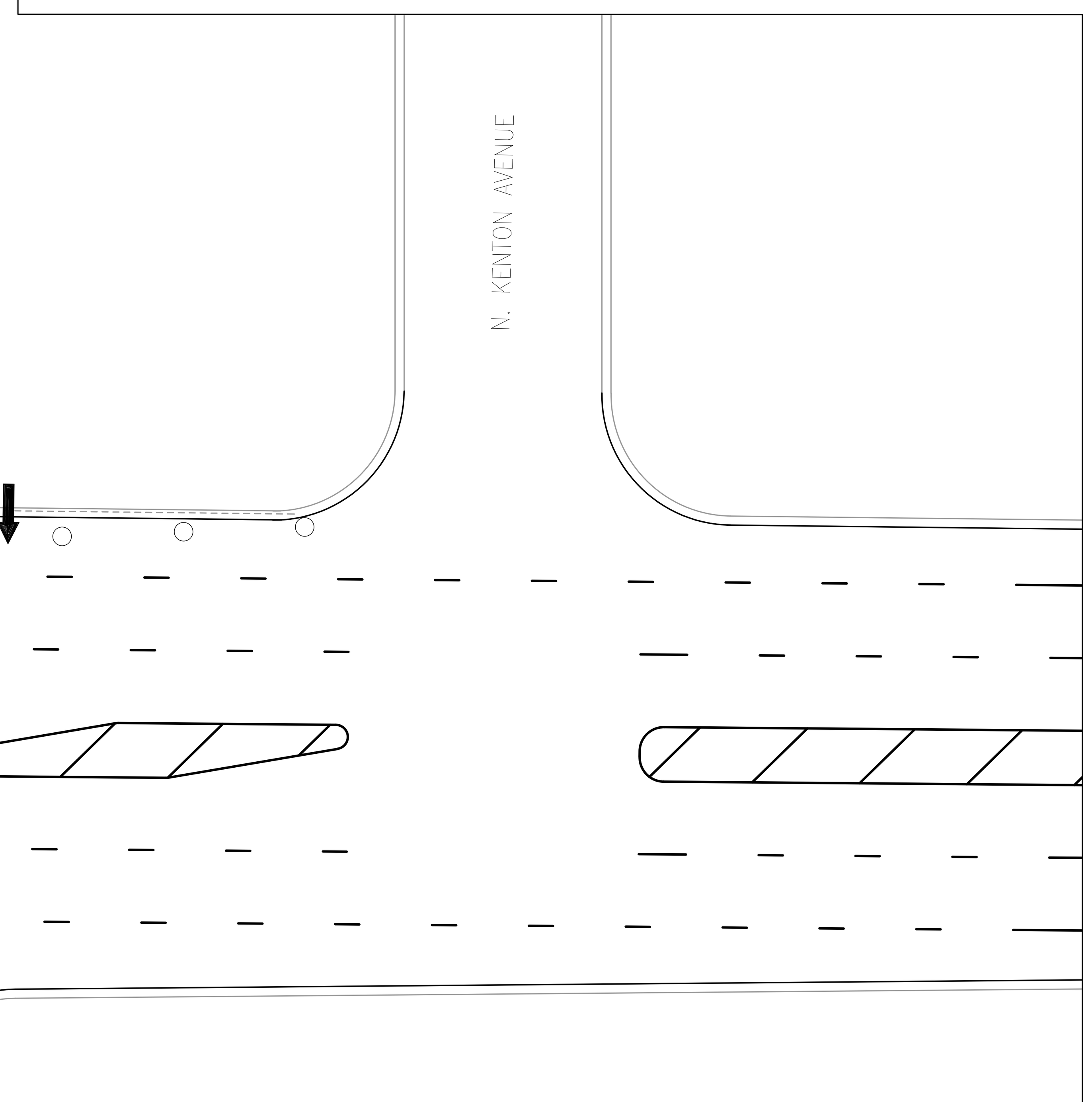
GENERAL NOTES

THIS LANE CLOSURE SHALL BE USED WHERE AT ANY TIME, DAY OR NIGHT, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT DURING CONSTRUCTION ACTIVITIES

1. CONES AT 25' CENTERS FOR 250'. ADDITIONAL CONES MAY BE PLACED AT 50' CENTERS. WHEN DRUMS OR TYPE I OR TYPE II BARRICADES ARE USED, THE INTERVAL BETWEEN DEVICES MAY BE DOUBLES
2. CONES, DRUMS, OR BARRICADES AT 20' CENTERS IN TAPER

LEGEND

- ARROW BOARD
- CONE, DRUM, OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER WALL

SUGGESTED MAINTENANCE OF TRAFFIC PLAN
1 W MADISON ST FROM N KENTON AVE TO N KILPATRICK AVE
SCALE: 1" = 20'

STATE OF ILLINOIS · REGISTERED PROFESSIONAL ENGINEER · 062-044201
Expires: 11-30-2024

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Project No.: BED 022137 / PBC 03720
Title

MAINTENANCE OF TRAFFIC

Sheet
C-201

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C. REVIEW DOCUMENTS, VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD AND CONFIRM THAT THE WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS IN WRITING TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.

D. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT PRIOR TO WORKING IN THE AREA IN QUESTION.

E. SUBMIT REQUESTS FOR INFORMATION (RFI) IN A TIMELY MANNER IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.

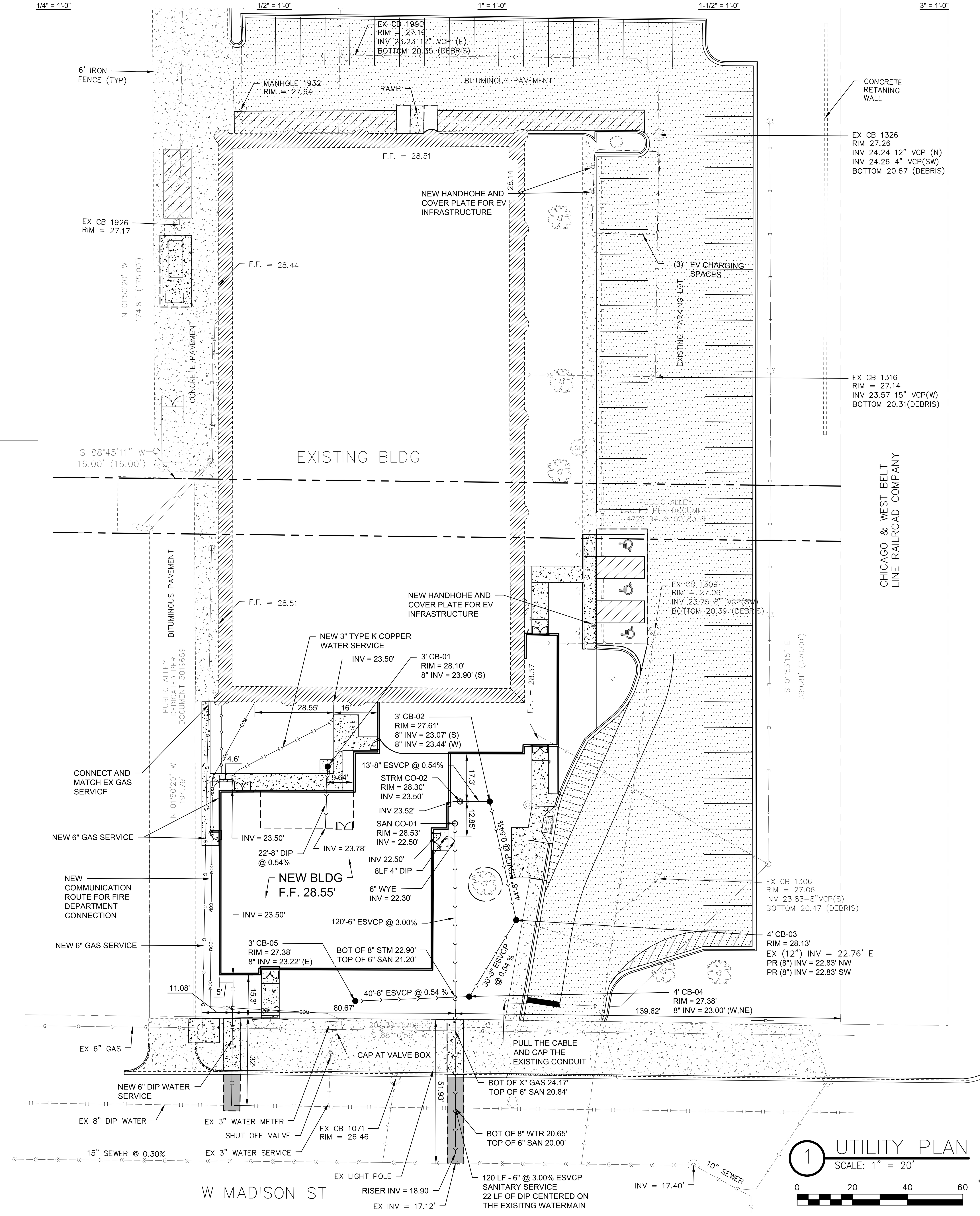
F. PROTECT ALL AREAS (AND PROPERTY) FROM DAMAGE RESULTING FROM THE WORK. REPAIR ANY DAMAGE RESULTING FROM THE WORK TO THE SATISFACTION OF THE OWNER. RETURN ALL AREAS AFFECTED BY THE WORK TO THEIR ORIGINAL CONDITION.

G. REMOVE DEBRIS FROM THE JOB SITE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND ALL GOVERNING AGENCIES. DO NOT ALLOW DEBRIS TO ACCUMULATE ON THE JOB SITE.

H. PROTECT TREES, LAWN, AND PLANTS FROM DAMAGE. IF DAMAGED, CONTRACTOR IS RESPONSIBLE FOR REPLACING THEM IN KIND.

UTILITY PLAN NOTES

1. SANITARY AND STORM SEWER SHALL BE EXTRA STRENGTH VITRIFIED CLAY PIPE, PER CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT STANDARDS.
2. WATER SERVICE SHALL BE TYPE K COPPER, BURIAL DEPTH SHALL BE 5'–6" FROM FINISHED GRADE TO TOP OF PIPE.
3. ALL NEW STORM STRUCTURES SHALL HAVE ADA COMPATIBLE OPEN LIDS, PER CITY STANDARDS.
4. CONTRACTOR SHALL COORDINATE ALL UTILITY WORK ARCHITECTURAL, PLUMBING, AND ELECTRICAL WORK.
5. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CHICAGO PUBLIC UTILITIES AND CROSS CONNECTION CONTROL REGULATIONS AND STANDARDS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT ETC., THAT MAY BE REQUIRED.
7. CONTRACTOR SHALL COORDINATE GAS, ELECTRIC AND TELEPHONE CONDUIT, PIPING, AND CONDUCTOR REQUIREMENTS WITH MEP PLANS AND UTILITY PROVIDER PRIOR TO INSTALLATION.



1 UTILITY PLAN
SCALE: 1" = 20'

0 20 40 60

STATE OF ILLINOIS · 062-044201 · REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

Architect of Record:
bailey edward

ADDRESS: 35 EAST WACKER DR SUITE 800 CHICAGO, IL. 60601-2308
PHONE: 312.440.2300
FAX: 312.440.2303
WEB: www.baileyedward.com

Design Firm License No. 184-001962

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200 S. Michigan Ave. Suite 1500 Chicago, IL. 60604 312.870.6638
Structural Engineers of Record & Civil Engineers of Record

Hitchcock Design Group
22 E. Chicago Ave.Suite 200A Naperville, IL 60540 630-961-1787
Landscape Architects of Record

Environmental Design International Inc.
33 West Monroe Street Suite 1825 Chicago, IL 60603 312-345-1400
Environmental Reno/Demo & Surveyor

RTM
200 West Monroe St. Suite 1750 Chicago, IL 60606 312-216-0501
MEPFP Engineers of Record

HUS Architecture
2202 S. Halsted Street. Chicago, IL 60608 312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name: West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
UTILITY PLAN

Sheet
C-300

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

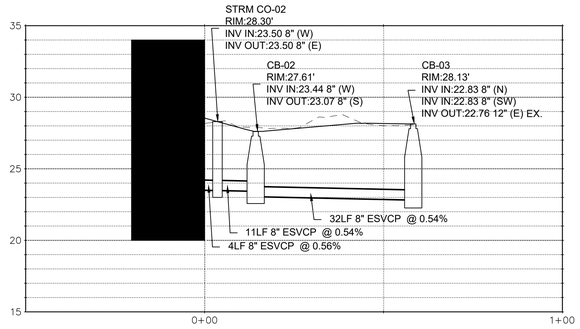
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

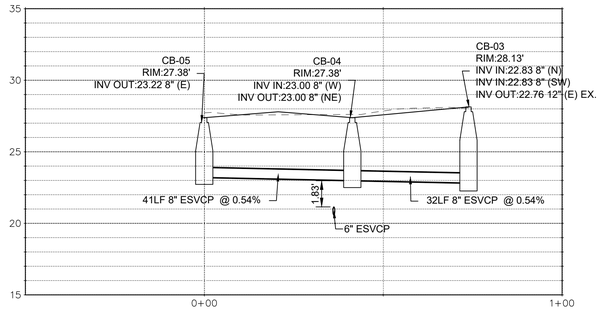
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

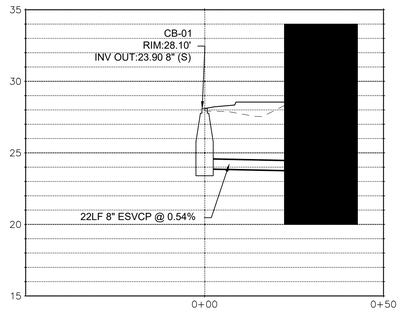
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



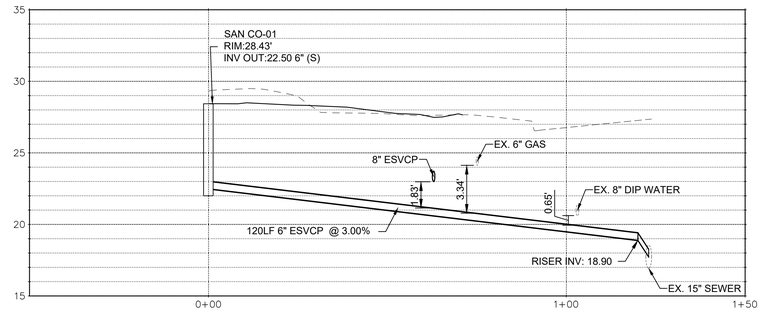
1 8" STORM SEWER – EAST
SCALE: 1" = 5" V – 1"=20' H



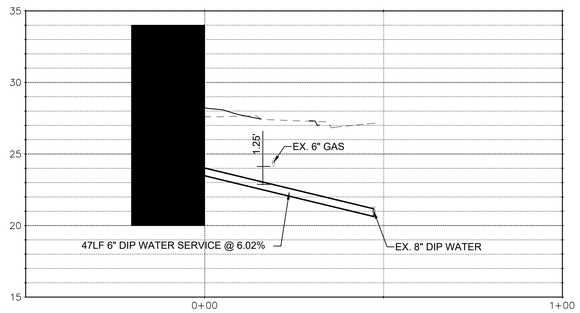
2 8" STORM SEWER – SOUTHEAST
SCALE: 1" = 5" V – 1"=20' H



3 8" STORM SEWER – NORTH
SCALE: 1" = 5" V – 1"=20' H



4 6" SANITARY SEWER
SCALE: 1" = 5" V – 1"=20' H



5 6" DIP WATER SERVICE
SCALE: 1" = 5" V – 1"=20' H

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

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LEED Consultant

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title

UTILITY PROFILE

Sheet C-301

STATE OF ILLINOIS
STEPHEN M. REMUS
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
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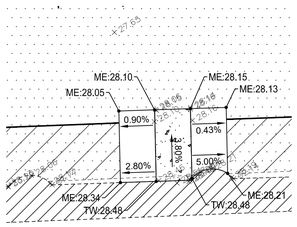
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

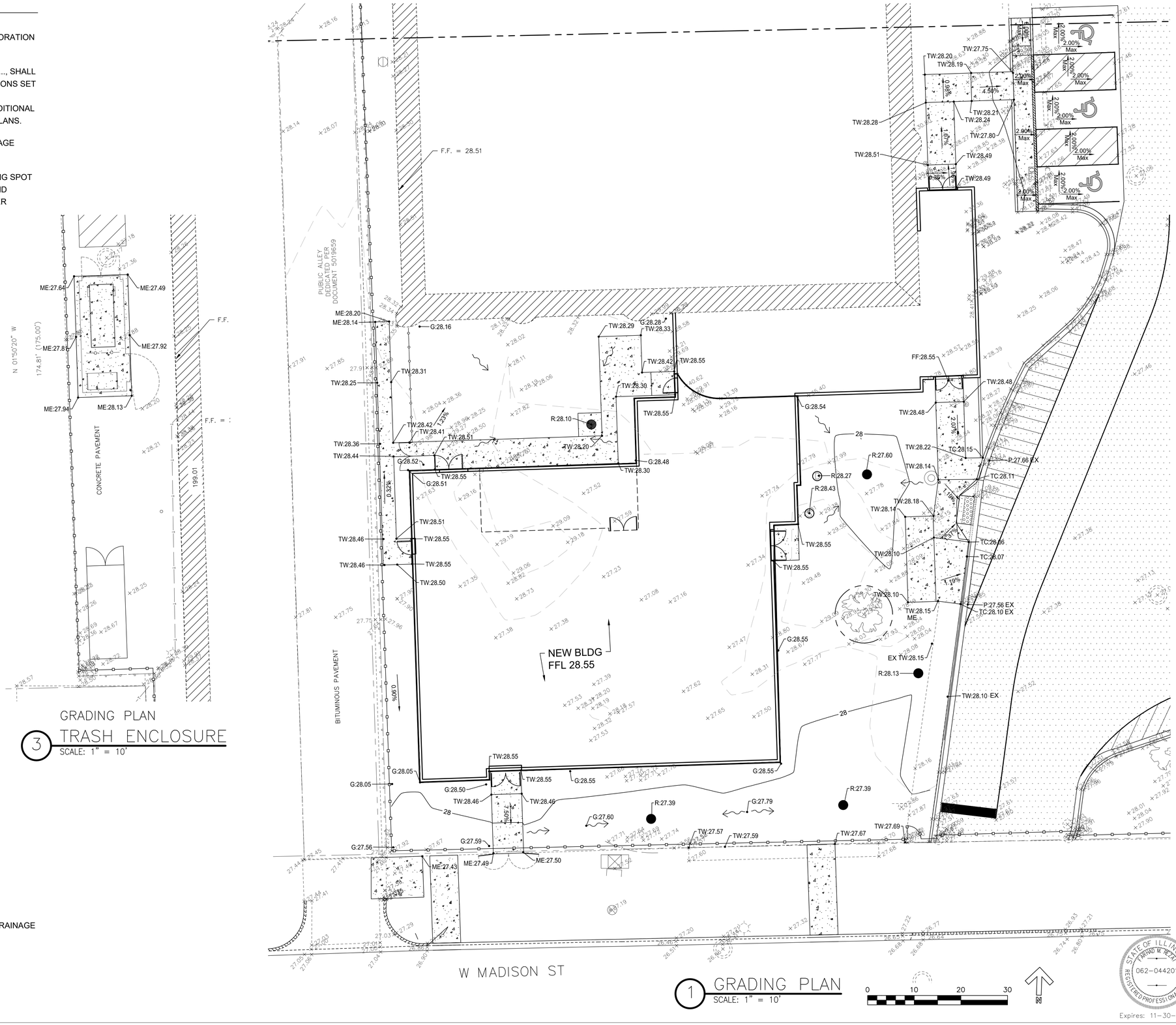
GRADING PLAN NOTES

1. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL EXPLORATION AND ASSESSMENT REPORT.
2. ALL GRADING, BACKFILLING, EXCAVATION, ETC..., SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.
3. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SPOT ELEVATIONS PRIOR TO ANY CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



GRADING PLAN
2 NORTH ENTRANCE
SCALE: 1" = 10'

GRADING PLAN
3 TRASH ENCLOSURE
SCALE: 1" = 10'



GRADING PLAN
1 SCALE: 1" = 10'

0 10 20 30
N

LEGEND:

TW:	TOP OF WALK
P:	PAVEMENT ELEVATION
TC:	TOP OF CURB
G:	LAWN ELEVATION
R:	TOP OF RIM
~~>	DIRECTION OF SURFACE DRAINAGE
+14.64	EXISTING GRADE

STATE OF ILLINOIS
THOMAS M. BEAL
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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Issuance

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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title

GRADING PLAN

Sheet

C-400

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0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

SEDIMENTATION AND EROSION CONTROL NOTES:

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
2. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE OWNER.
3. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL AS INDICATED ON THE PLANS AND REQUIRED BY THE OWNER.
4. THE CONTRACTOR SHALL KEEP THE STREETS CLEAN OF DEBRIS AND PROVIDE SWEEPING OF THE STREET AS REQUIRED BY THE OWNER.
5. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
6. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
7. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE.
8. STOCKPILES OF SOIL OR OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN 3 DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (i.e. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE MORE THAN 14 DAYS OR MORE SHALL RECEIVE TEMPORARY STABILIZATION WITHIN 7 DAYS.
9. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
11. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED.
12. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
13. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE.
14. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
15. CONTRACTOR SHALL UTILIZE APPROPRIATE SOIL EROSION MEASURES, SUCH AS WATERING TECHNIQUES TO CONTROL DUST POLLUTION LEAVING THE SITE. DUST CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 825 OF THE ILLINOIS URBAN MANUAL.
16. THE CONTRACTOR SHALL PROVIDED CONCRETE WASHOUT FACILITIES, AT A CONVENIENT LOCATION DURING ALL CONCRETE CONSTRUCTION ACTIVITIES.
17. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
18. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLES WASHDOWN FACILITIES, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED PROPERLY AT THE END OF EACH WORKING DAY.

INSPECTION SCHEDULE

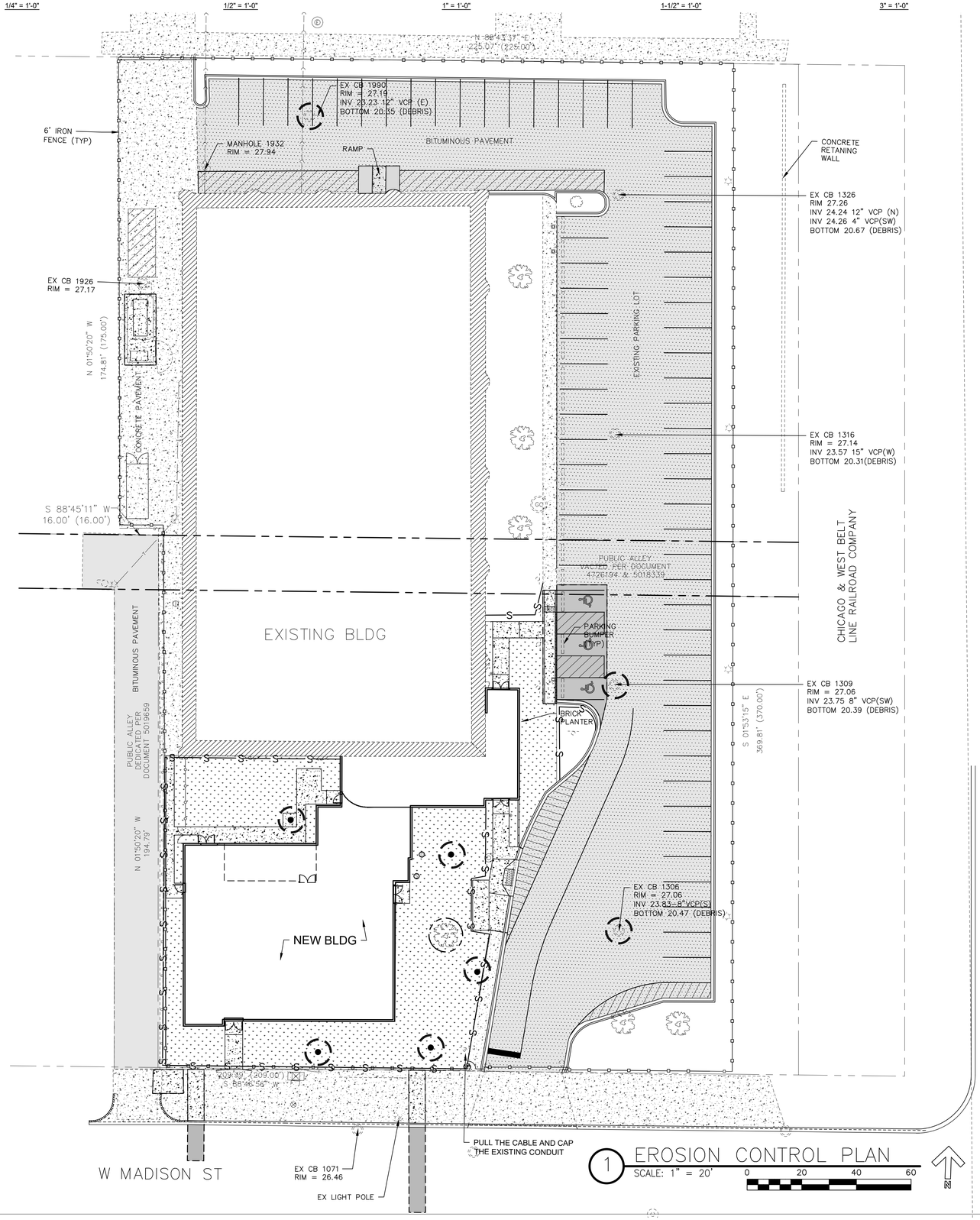
1. EROSION CONTROL DEVICES & SWALES TO BE MONITORED DAILY.
2. VEGETATIVE PLANTINGS (SEEDING, SODDING, ETC.) TO BE CHECKED PERIODICALLY TO VERIFY THAT ADEQUATE GROUND COVER IS BEING ESTABLISHED. AREAS OF INSUFFICIENT COVER TO BE RESEEDED IMMEDIATELY.
3. REPAIRS TO EROSION CONTROL DEVICES TO BE MADE IMMEDIATELY UPON DISCOVERY.

LEGEND

TEMPORARY SILTATION BASKET

S S SILT FENCE

TREE PROTECTION



1 EROSION CONTROL PLAN
SCALE: 1" = 20' 0 20 40 60

N

STATE OF ILLINOIS
RICHARD W. BEALS
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

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CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

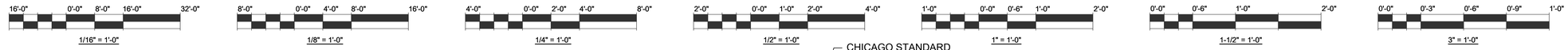
Project No.: BED 022137 / PBC 03720

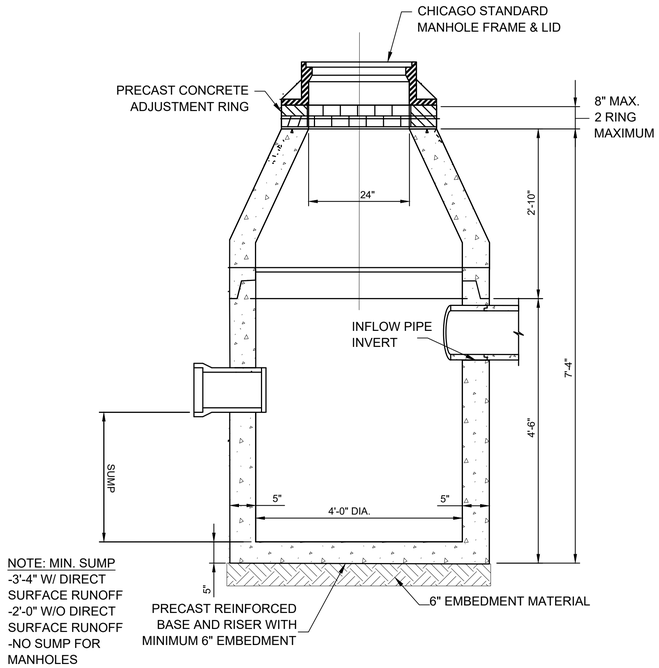
Title

EROSION CONTROL PLAN

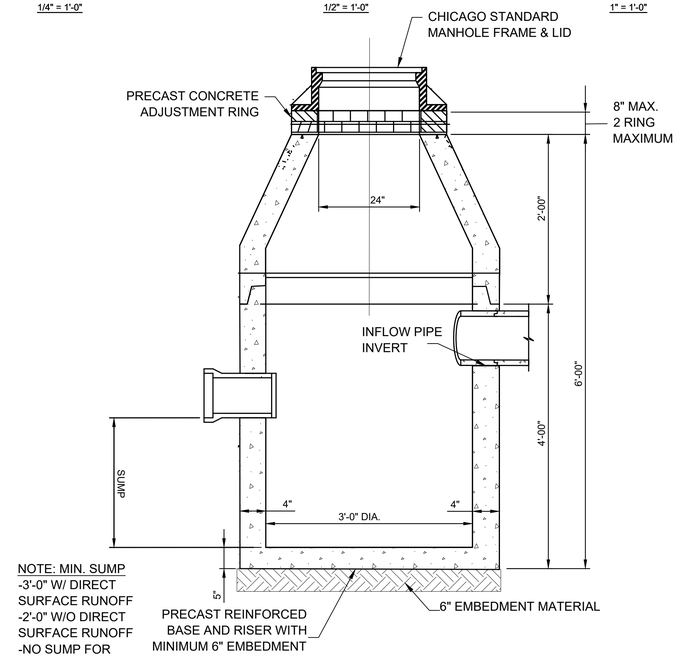
Sheet

C-500

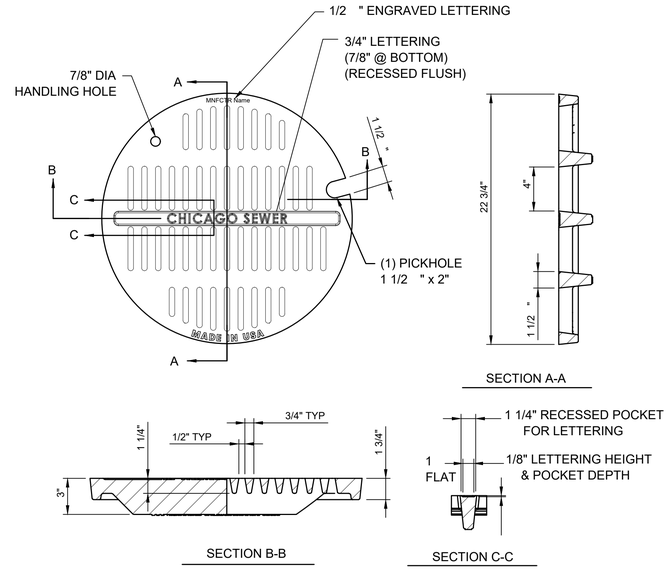




1 - STANDARD CATCH BASIN SECTION
SCALE: N.T.S.



2 - 3' CATCH BASIN SECTION
SCALE: N.T.S.



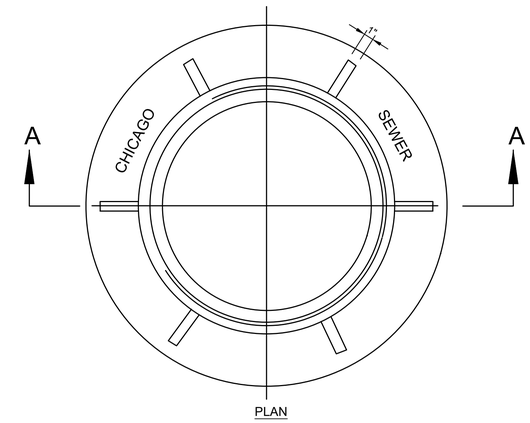
MATERIALS
GRATE-GRAY IRON
ASTM A48 CL35B

DESIGN LOAD
HEAVY DUTY

COATING
UNDIPPED

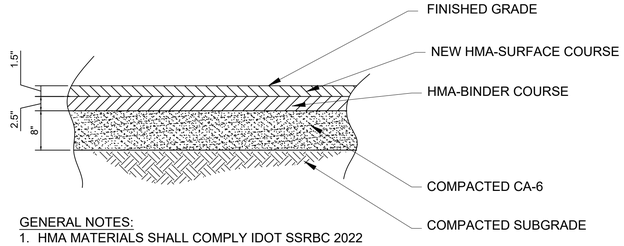
OPEN AREA
85.6 SQ. IN.

3 - SEWER CB/MH LID DETAIL
SCALE: N.T.S.



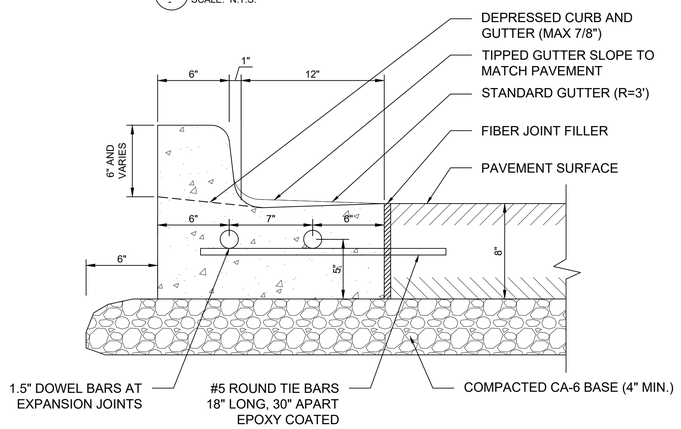
NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORATED LIDS ON MANHOLES.

4 - SEWER STRUCTURE FRAME DETAIL
SCALE: N.T.S.

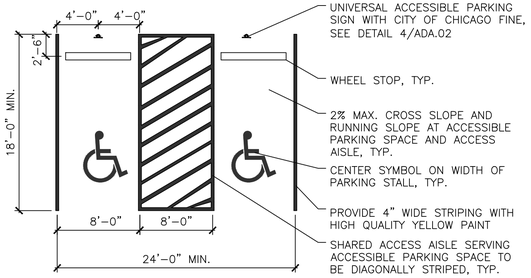


GENERAL NOTES:
1. HMA MATERIALS SHALL COMPLY IDOT SSRBC 2022
2. COMPACT AGGREGATE BASE TO 95% MODIFIED PROCTOR.

5 - ASPHALT PAVEMENT AND BASE
SCALE: N.T.S.



6 - CONCRETE CURB AND GUTTER
SCALE: N.T.S.



7 - ACCESSIBLE PARKING DETAIL
SCALE: N.T.S.

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Project No.: BED 022137 / PBC 03720

Title

CIVIL DETAILS

Sheet

C-600

STATE OF ILLINOIS
FARHAD M. REZVANI
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

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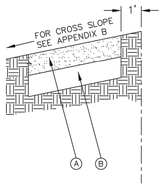
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



LEGEND:

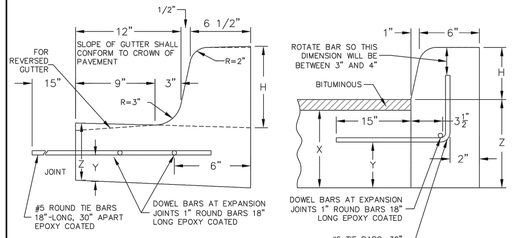
(A) PROPOSED 5" P.C.C. SIDEWALK *

(B) SUBBASE GRANULAR MATERIAL, TYPE B OR C, 4"

* CURB RAMP & KEYSTONE 8" P.C.C. AT SIGNALIZED AND INDUSTRIAL STREET INTERSECTIONS

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	ADA COMPLIANT SIDEWALK CONSTRUCTION DETAILS		
			DATE	SHEET	DRAWN BY
			12/20/06	A-3-1	CDOT

NOTE: H = VARIABLE 3" TO 9"
X = THICKNESS OF PAVEMENT
Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE.
Z = 10" OR THICKNESS OF PAVEMENT – WHICHEVER IS GREATER



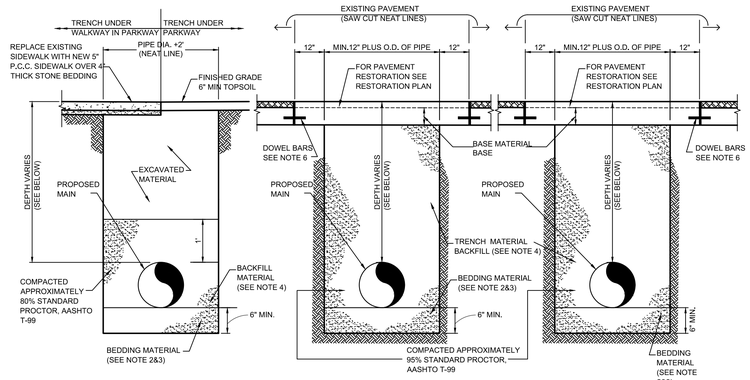
JOINTS IN CURB, COMBINED CURB & GUTTER

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE COMMISSIONER. CURB, GUTTER OR COMBINED CURB & GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PERFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED--ALL DOWEL BARS SHALL BE SMOOTH.

NOTE: ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

*AT LOCATIONS REQUIRING DEPRESSED CURBS SEE THE ADA STANDARDS FOR CONSTRUCTION DETAILS

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CONCRETE CURB & GUTTER DETAIL		
			DATE	SHEET	DRAWN BY
			12/12/06	A-2-6	CDOT



TYPE I TRENCH
PARKWAY OR SIDEWALK

TYPE II TRENCH
IDOT & CITY ARTERIAL STREETS
AND CENTRAL BUSINESS DISTRICT

TYPE III TRENCH
CITY STREETS

NOTES:

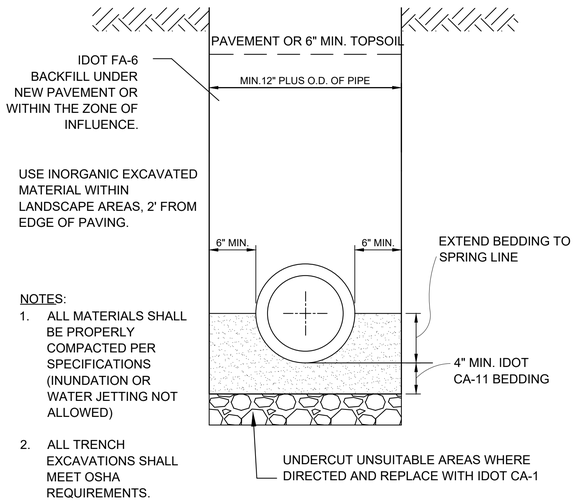
1. PROVIDE PIPE BEDDING TO A DEPTH OF $\frac{1}{4}$ OF PIPE DIAMETER OR 6" MINIMUM OF COMPACTED GRANULAR MATERIAL "GRAVEL" OR CRUSHED STONE.
2. USE CA-16 BEDDING MATERIAL FOR PIPE SIZES UP TO 16-INCH DIAMETER.
3. USE CA-11 BEDDING MATERIAL FOR PIPE SIZES LARGER THAN 116-INCH DIAMETER.
4. BACKFILL MUST BE COMPACTED UP TO ONE FOOT ABOVE THE PIPE IN TYPICAL TRENCH I AND TO THE TOP OF THE TRENCH IN TYPICAL TRENCH TYPE II & III TRENCH BACKFILL GRADATION CA-16 EXCEPT IN CENTRAL BUSINESS DISTRICT USE CLSM (FLOWABLE FILL).
5. ALL EXCAVATIONS MUST BE PROPERLY SHORED SHEETED AND BRACED TO PROVIDE SAFE WORKING CONDITIONS. ALL IN COMPLIANCE WITH THE U.S. DEPARTMENT OF LABOR SAFETY AND HEAL THE REGULATIONS FOR CONSTRUCTION STIPULATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT. (D.S.H.A.).
6. #5 EPOXY COATED BARS 18" LONG DRILLED AND GROUTED AT 30" CENTERS, EXCEPT OMIT ON CDOT STREETS WHERE CLSM ISED AS TRENCH BACKFILL.
7. WHEN TRENCH BACKFILL IS COMPLETE POUR CONCRETE BASE COURSE FLUSH TO TOP AND AT A MINIMUM BOTTOM OF EXISTING PAVEMENT GRADE. THE ADDITIONAL THICKNESS IS TO BE REMOVED DURING PAVEMENT RESTORATION WORK. FINAL CONCRETE BASE THICKNESS MUST BE PER C.D.O.T./I.D.O.T. REQUIREMENTS. WHEN THE THICKNESS OF THE EXISTING ROADWAY BASE MATERIAL IS LESS THAN THE MINIMUM THICKNESS NOTED BELOW, THE BOTTOM OF BASE MATERIAL WILL EXTEND BELOW TO THE BOTTOM OF THE BASE MATERIAL OF THE EXISTING PAVEMENT MINIMUM THICKNESS FOR ARTERIAL STREETS IS 9 INCHES AND 7 INCHES FOR RESIDENTIAL STREET.
8. PLATE ALL UNATTENDED EXCAVATIONS IN PAVEMENT AREAS AND SECURE PLATES TO PAVEMENT AND PROVIDE BARRIERS IN PARKWAY AREAS.
9. CENTRAL BUSINESS DISTRICT IS DEFINED AS THE AREA FROM DIVISION STREET SOUTH TO ROOSEVELT ROAD AND HALSTED STREET EAST TO LAKE MICHIGAN.

PIPE DEPTH REQUIREMRNTS

MINIMUM DEPTH OF COVER FOR WATER MAINS	
SIZE OF PIPE	DEPTH OF COVER
$\frac{3}{4}$" TO 3"	5'-6" ±3"
4"	5'-6" ±3"
6"	5'-6" ±3"
8"	5'-3" ±3"
12"	5'-0" ±2"
16"	4'-6" ±2"
24"	4'-0" ±1"
30" TO 42"	3'-6" MIN. (SEE PLAN)
48" & LARGER	3' MIN. (SEE PLAN)

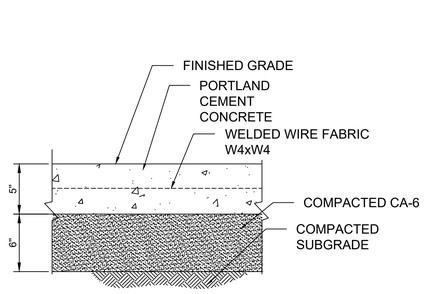
REV:09.07

WATER MAIN TRENCH DETAILS D-8

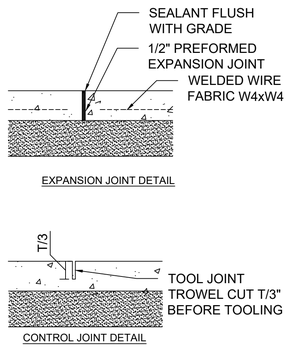


NOTES:
1. ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING NOT ALLOWED)
2. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.

4 C-601 SEWER TRENCH AND BEDDING DETAIL
SCALE: N.T.S.



GENERAL NOTES:
1. COMPACT AGGREGATE SUBGRADE TO 95% MODIFIED PROCTOR.DENSITY.



5 C-601 CONCRETE SIDEWALK AND JOINT SECTION
SCALE: N.T.S.

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

Architect of Record:
bailey edward

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312-216-0501
MEPFP Engineers of Record

HUS Architecture
2202 S. Halsted Street.
Chicago, IL 60608
312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title

SITE DETAILS

Sheet

C-601

STATE OF ILLINOIS
FARHAD M. REZVANI
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

O&M PRACTICES AND IMPLEMENTATION SCHEDULE:

INFORMATION IN THIS SECTION OUTLINES THE SPECIFIC INSPECTION AND MAINTENANCE REGIMEN FOR EACH BMP AND MUST COMPLY WITH THE FOLLOWING:

1. O&M PLAN PROCEDURES AND PRACTICES MUST BE REVIEWED AND ASSESSED ANNUALLY.
2. THE CITY REQUIRES THAT PROPERTY OWNERS KEEP AN O&M INSPECTION AND MAINTENANCE LOGBOOK. IN GENERAL, THE LOGBOOK SHOULD NOTE ALL INSPECTION DATES, FACILITY COMPONENTS INSPECTED, AND ANY MAINTENANCE PERFORMED AND REPAIRS MADE. ALL INSPECTIONS AND MAINTENANCE, BOTH ROUTINE AND EMERGENCY, SHOULD BE RECORDED IN THE LOGBOOK. EACH BMP-SPECIFIC O&M SHEET SHOULD SERVE AS A CHECKLIST FOR DESIGN ELEMENTS THAT REQUIRE INSPECTION, THE FREQUENCY OF INSPECTIONS, AND CONDITIONS THAT INDICATE THAT MAINTENANCE IS NEEDED. LOG BOOKS MUST BE PRODUCED UPON THE REQUEST OF A CITY INSPECTOR.
3. DRAINAGE STRUCTURES AND FLOW RESTRICTORS MUST BE INSPECTED AND CLEANED SEMI-ANNUALLY

O & M PLAN/SITE MAP:

THE SITE MAP OUTLINES THE LOCATION OF ALL BMPs AND DOCUMENTS THE FOLLOWING:

1. ~~➝~~ STORMWATER RUNOFF FLOW DIRECTION
2. **O** OPEN GRATE STRUCTURES (CATCH BASINS, INLETS, AND MANHOLE) TO BE PROPERLY MAINTAINED.

Operation and Maintenance Owner's Certification Statement

Property Name: MALCOLM X WEST SIDE LEARNING CENTER

Property Address: 4624 W MADISON ST, CHICAO, IL 60644

As the owner(s) of the subject property, by signing this document, I/we acknowledge that I/we have received and reviewed the Operation and Maintenance Plan, dated , and understand its contents. (as required by the Stormwater Management Ordinance, Section 11-18-030).

In the event that I/we were to sell this property, I/we agree to give a copy of the Plan to the new owner(s) and this Owner's Certification Statement for signature. This signed Certification Statement must be submitted to the City's Department of Buildings upon transfer of ownership.

I/we further agree to adhere to the maintenance schedule of best management practices stipulated in the Plan. I/we also acknowledge that if I/we don't maintain the measures as shown in the Plan, upon City inspection, I/we could be liable for a violation of the City's Municipal Code (according to Stormwater Management Ordinance Section 11-18-130).

Initial Owner(s) Printed Name

Initial Owner(s) Signature Date Notary Public

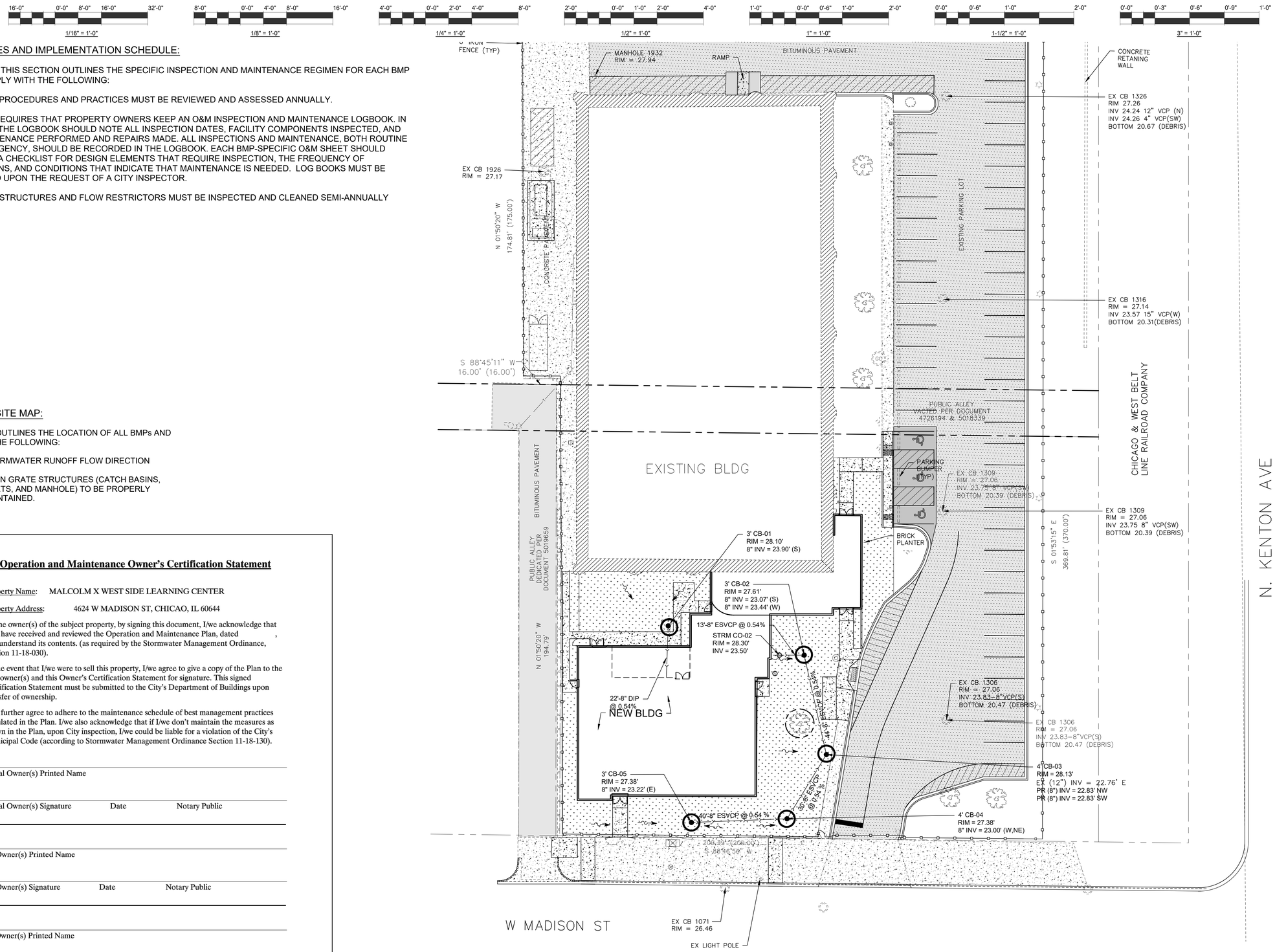
2nd Owner(s) Printed Name

2nd Owner(s) Signature Date Notary Public

3rd Owner(s) Printed Name

3rd Owner(s) Signature Date Notary Public

A.26



1 POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN
SCALE: 1" = 20'

0 20 40 60

STATE OF ILLINOIS
THOMAS W. BEALS
062-044201
REGISTERED PROFESSIONAL ENGINEER
Expires: 11-30-2024

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN

Sheet
C-700

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

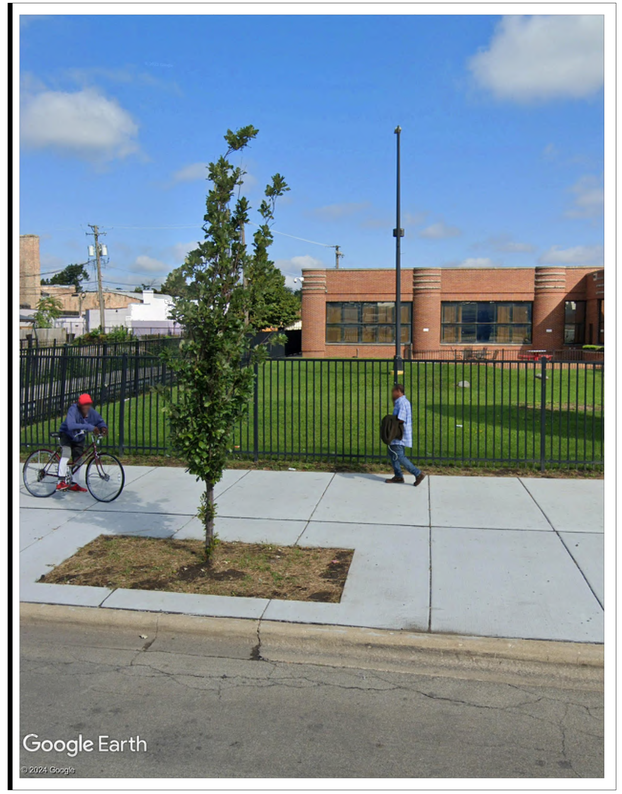
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

1 East Madison Street Tree

Existing 3" caliper hybrid columnar oak to remain



2 West Madison Street Tree

Existing 3" caliper hybrid columnar oak to remain

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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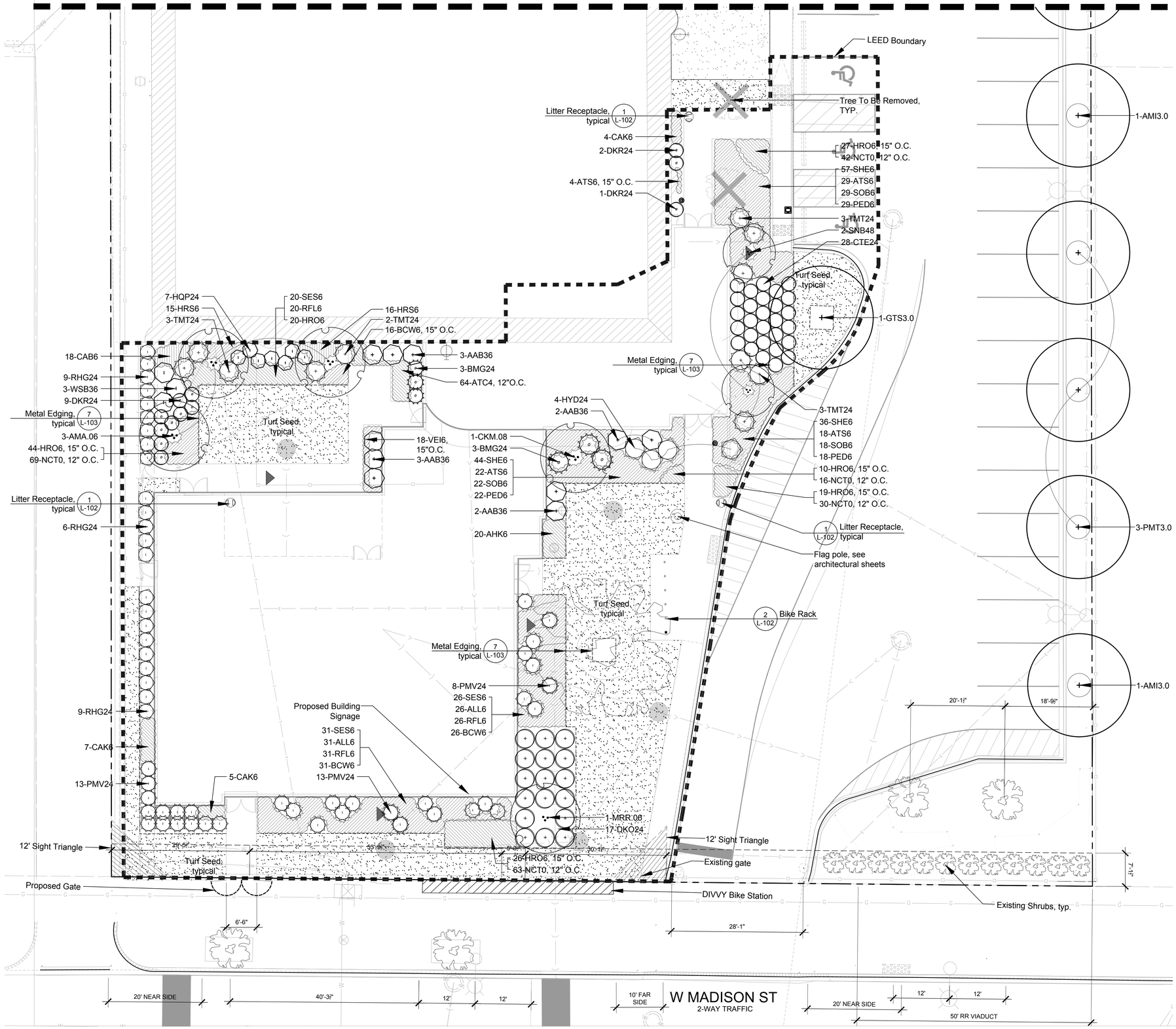
Title

EXISTING PARKWAY TREES PHOTOGRAPHS

Sheet L-100

16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0"
8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0"
4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0"
2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0"
1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0"
0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0"
0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0"

SHEET 101



PLANTING NOTES

1. Turf seed limit line is approximate. Seed to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
2. Contractor responsible for erosion control in all seeded areas.
3. Tree mulch rings in turf areas are 5 foot diameter, typical, unless otherwise shown. Contractor shall provide a mulch ring around all existing trees within the limit of work. Remove all existing grass from area to be mulched and provide a typical v-trench edge.
4. Do not locate plants within 10' of utility structures, or within 5' horizontally of underground utility lines unless otherwise shown on the plans. Consult with Landscape Architect if these conditions exist.
5. Plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
6. Refer to specifications for additional conditions, standards and notes.

PLANTING LEGEND

- Shade Tree, typical. See detail for Installation.
- Ornamental Tree, typical. See detail for installation.
- Shrub, typical. See detail for installation.
- Perennials and Groundcover, typical. See detail for installation.
- Turf seed, typical.
- Metal Edging, typical.
- Existing Tree, typical.
- Existing Shrub, typical.
- Existing Hose Bib, typical.
- Proposed Hose Bib, typical.

Owner's Sworn Statement

The undersigned acknowledges that the landscape planting plan shown on the attached landscape plan for the property at 4624 West Madison Street, Chicago, Illinois 60644, has, to the best of the undersigned applicant's knowledge, been designed, and will be installed , maintained, and replaced, as required, by current and subsequent owners, in accordance with the requirements of Title 10, Chapter 32 of the Chicago Municipal Code, the landscaping standards of the Chicago Zoning Ordinance, and the "Guide to the Chicago Landscape Ordinance."

Existing parkway and on-site interior trees are to be protected while the project is under construction and will be replaced by current and subsequent owner if damaged.

The estimated time of installation will be by 05/01/2025

By (Owner)

Date

Landscape Architect's Sworn Statement

The undersigned landscape architect, registered in the State of Illinois, acknowledges that the landscape planting plan and construction details shown on the attached landscape plan for the property at 4624 West Madison Street, Chicago, Illinois 60644, has, to the best of the undersigned applicant's knowledge, been designed in accordance with the requirements of Title 10, Chapter 32 of the Chicago Municipal Code, the landscaping standards of the Chicago Zoning Ordinance, and the *Guide to the Chicago Landscape Ordinance*.

I, David Frigo, registered landscape architect No. 157-000586 in the State of Illinois, certify that these drawings were prepared under my direct supervision. License expiration date: August 31, 2025

David Frigo, Landscape Architect, LEED, Hitchcock Design Group

January 30, 2024

Date

SCALE IN FEET
1" = 10'
0' 5' 10' 30'

NORTH

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

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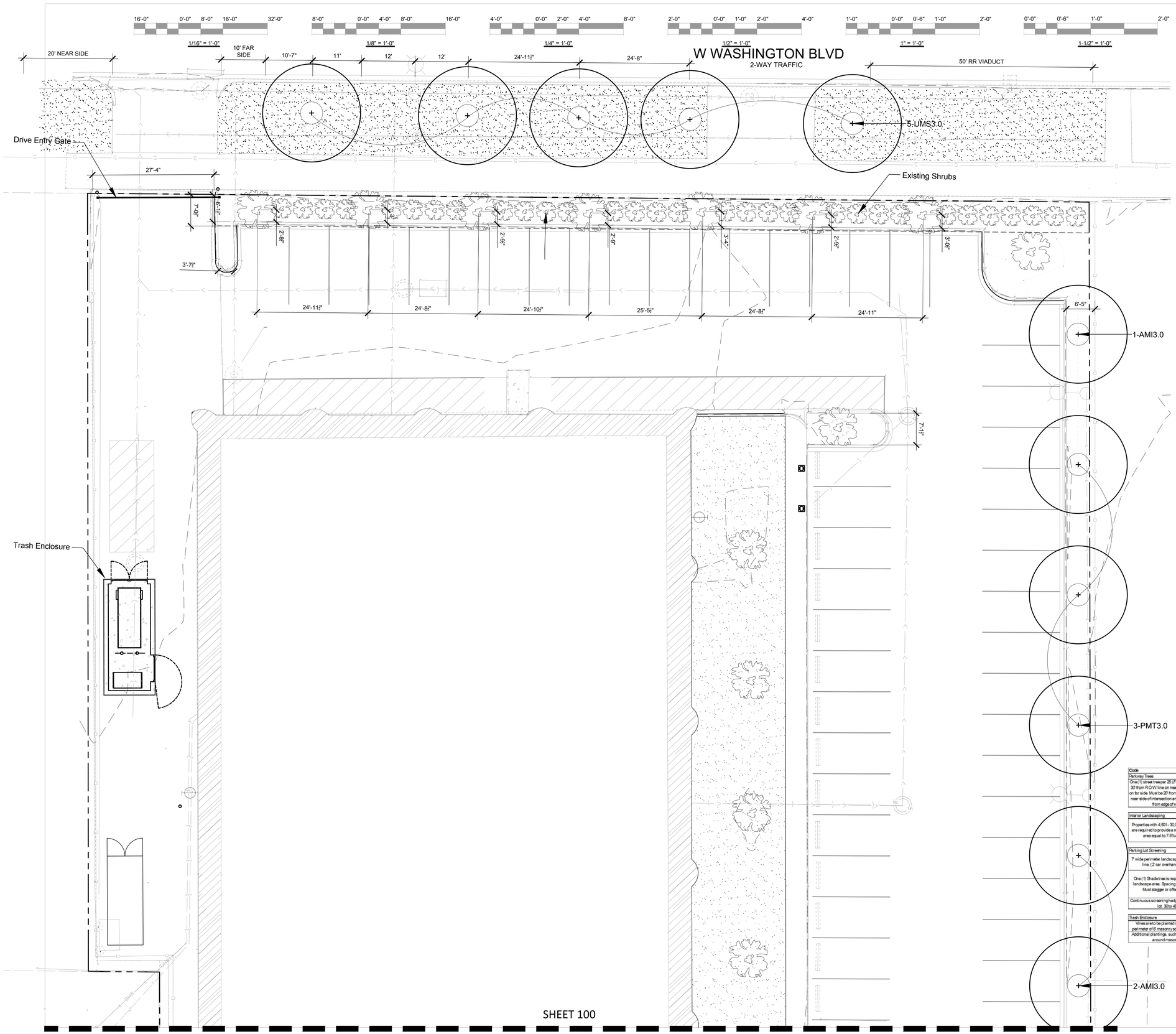
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
PLANTING PLAN

Sheet
L-101



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- Turf seed, typical.
- Metal Edging, typical.
- Existing Tree, typical.
- Existing Shrub, typical.
- Existing Hose Bib, typical.
- Proposed Hose Bib, typical.

Code	Requirement	Provided
Parkway Trees		
One (1) street tree per 25 LF of parkway frontage. Must be 30' from R.O.W. line on near side of intersection and 20' on far side. Must be 20' from edge of commercial alley on near side of intersection and 10' on far side. Must be 10' from edge of residential drive.	225 LF of frontage along W. Washington BLVD. 225/LF25 = 9 trees required along W. Washington BLVD. 209 LF of frontage along W Madison St. 209/LF25 = 8.36 (8) trees required along W Madison St.	5 trees possible along W. Washington BLVD. 5 provided. 4 trees possible along W Madison St due to spacing and setback requirements, 2 provided.(Variance requested to make up for spacing and offset requirements)
Interior Landscaping		
Properties with 4,501 - 30,000 SF of vehicular use area are required to provide a minimum interior landscape area equal to 7.5% of vehicular use area.	30,094 SF of vehicular use area. 7.5% x 30,094 = 2254.8 2,255 SF of interior landscaped are required.	4,280 SF of interior landscaping provided. An additional 2,280 SF of adjacent landscaping provided. (Variance requested to include adjacent landscape area along east side of lot in this requirement to reach 6,546 SF Total)
Parking Lot Screening		
7' wide perimeter landscape area setback from R.O.W. line. (2' car overhang, 5' landscape area).		Existing 5' setback from W. Washington BLVD. Existing 7' setback from W Madison St.(Variance requested to count the existing setback along W. Washington BLVD).
One (1) Shade tree is required per 25 LF of perimeter landscape area. Spacing is not required to be equal. Must stagger or offset with parkway trees.	195.67(L196) LF of perimeter landscape area along W. Washington BLVD. 196/LF25 = 7.84(7) trees along W. Washington BLVD. 59.24(T59) LF of perimeter landscape area along W Madison St. 59/LF25 = 2.36(2) trees required along W Madison St.	7 trees provided along W. Washington BLVD. 2 trees provided along W Madison St.
Continuous screening hedge along perimeter of parking lot. 30 to 48 inch height.		Existing continuous hedge along R.O.W. facing edges of parking lot.
Trash Enclosure		
Vines are to be planted in planting beds along the perimeter of 6' masonry screen walls. (12" width min.)		Vines to be provided around base of dumpster enclosure.
Additional plantings, such as shrubs, are encouraged around masonry screen walls.		Shrubs to be provided around base of dumpster enclosure.

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
PLANTING PLAN

Sheet
L-102

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

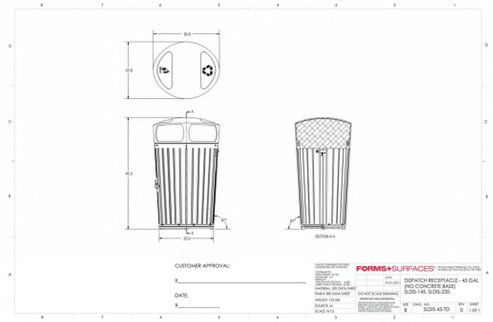
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

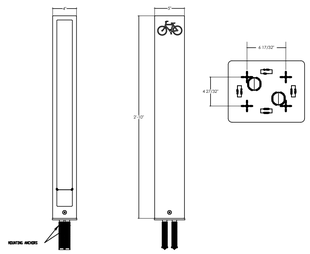
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



1 Litter Receptacle
Scale: NTS
d-litter receptacle



2 Bike Rack
Scale: NTS
d-litter receptacle

CITY COLLEGES of CHICAGO
PUBLIC BUILDING COMMISSION

WSLC ADDITION & RENOVATIONS

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LANDSCAPE DETAILS

Sheet L-103

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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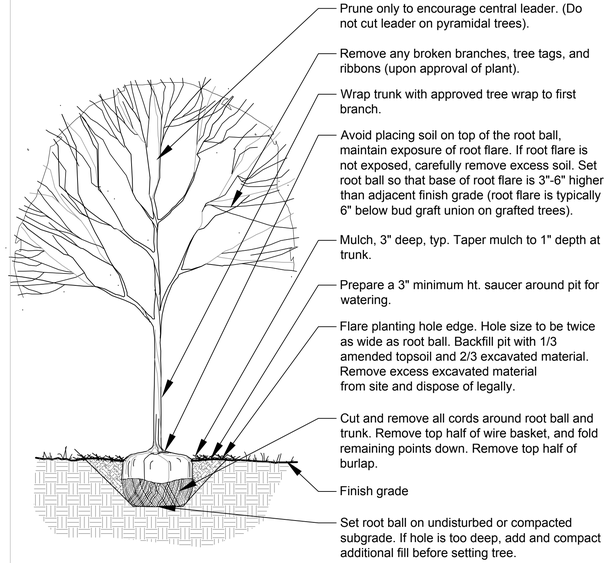
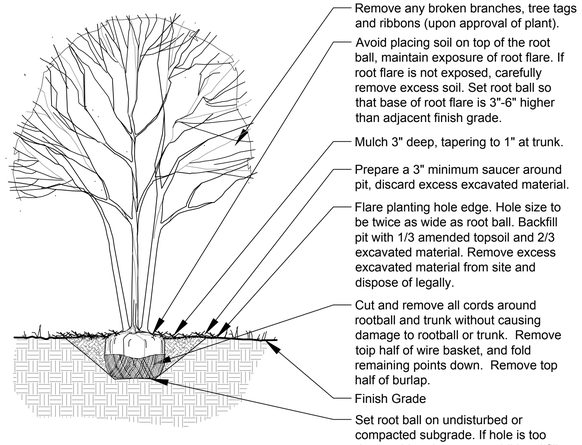
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



1 Deciduous Tree Planting

Scale: 1/2" = 1'-0"

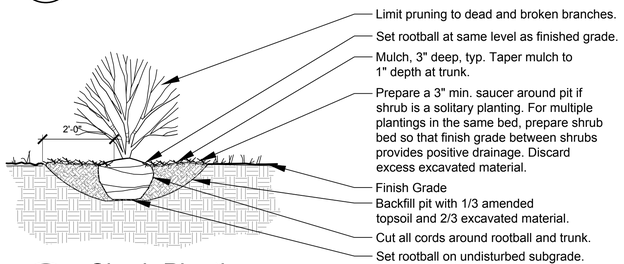
d-plant-tree-dec



2 Ornamental Tree Planting

Scale: 1/2" = 1'-0"

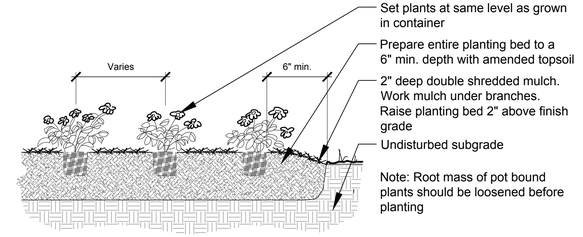
d-plant-tree-orn



3 Shrub Planting

Scale: 1/2" = 1'-0"

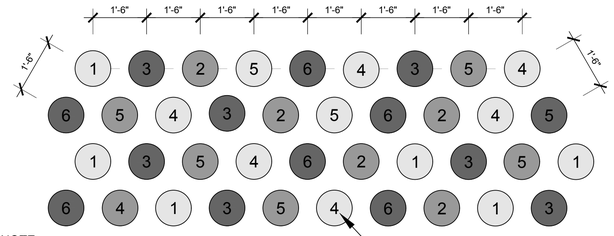
d-plant-shrub



4 Perennial Planting

Scale: 1/2" = 1'-0"

d-plant-ann-perenn

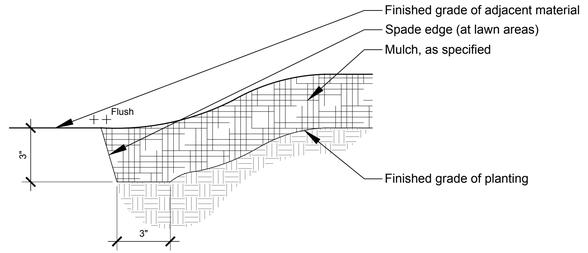


NOTE:
1. Spacing is to be triangular
2. Where multiple plants are called out in one hatched area, the intent is for plant species to be randomly placed
3. Typical spacing is 18" O.C. unless noted otherwise on plans

5 Perennial Spacing and Planting Pattern

Scale: 1/2" = 1'-0"

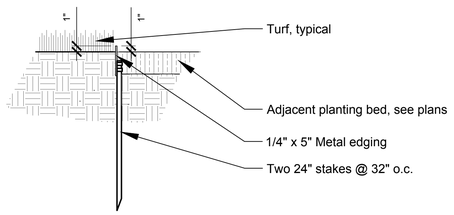
d-veg-tri-spacing



6 Planting Bed / Mulch Ring

SCALE: 3" = 1'-0"

d-mulch trench



7 Metal Edging

Scale: 1" = 1'-0"

d-metal-edge

PLANT MATERIAL LIST

Code	Botanical Name	Common Name	Size	Qty
Shade Trees				
AMI3.0	Acer miyabe 'Morton'	State Street Miyabe Maple	3" C	5
GTS3.0	Gleditsia triacanthos var. inermis 'Shademaster'	Exclamation! London Planetree	3" C	1
PMT3.0	Platanus x acerifolia 'Morton Circle'	Shademaster Thornless Honeylocust	3" C	6
UMS3.0	Ulmus 'Morton Stalwart'	Commendation Elm	3" C	5
Intermediate Trees				
AMA.06	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	6' HT	3
CKM.08	Cornus kousa var. chinensis 'Milky Way'	Milky Way Chinese (Kousa) Dogwood	8' HT	1
MRR.06	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	6' HT	1
Deciduous Shrubs				
AAB36	Aronia arbutifolia 'Brilliantissima'	Brilliant Red Chokeberry	36" HT	10
CTE24	Cotoneaster x Hesseii "	Hesse Spreading Cotoneaster	24" HT	28
DKR24	Diervilla "G2X885411"	Kodiak Red Bush Honeysuckle	24" HT	14
DKO24	Diervilla 'G2X88544'	Kodiak Orange Bush Honeysuckle	24" HT	17
HYD24	Hydrangea paniculata 'RENsun'	StrawBerry Sundae Panicled Hydrangea	24" HT	4
HQP24	Hydrangea quercifolia 'Pee Wee'	Pee Wee Oakleaf Hydrangea	24" HT	7
RHG24	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	24" HT	23
SNB48	Sambucus nigra 'Black LaceEva'	Black Lace European Elder	48" HT	2
WSB36	Weigela florida "Bokrasopin"	Weigela Sonic Bloom Pink	36" HT	3
Evergreen Shrubs				
PMV24	Pinus mugo 'Valley Cushion'	Valley Cushion Mugo Pine	24" HT	34
TMT24	Taxus x media 'Tauntonii'	Taunton Intermediate Yew	24" HT	11
Broadleaf Evergreens				
BMG24	Buxus x 'Glencoe'	Chicagoland Green Boxwood	24" HT	6
Groundcovers				
ATC4	Ajuga tenorii 'Chocolae Chip'	Chocolate Chip Bugleweed	1 QT	64
Perennials				
ALL6	Allium 'Millennium'	Millennium Ornamental Chive	1 GAL	57
ATS6	Allium tanguticum 'Summer Beauty'	Summer Beauty Ornamental Chive	1 GAL	73
AHK6	Amsonia hubrichtii 'Halfway to Arkansas'	'Halfway to Arkansas' Narrow Leaf Blue Star	1 GAL	20
BCW6	Bergenia cordifolia 'Winterglod'	Winterglow Bergenia	1 GAL	73
CAB6	Calamagrostis brachytricha "	Korean Feather Reed Grass	1 GAL	18
CAK6	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 GAL	16
HRO6	Hemerocallis 'Rosy Returns'	Rosy Returns Daylilly	1 GAL	126
HRS6	Hosta 'Royal Standard'	Royal Standard Plantain Lily	1 GAL	31
NCT0	Narcissus cycam. 'Tete a Tete'	Tete a Tete Daffodil	BULB	220
PED6	Penstemon digitalis "	Foxglove Beard Tongue	1 GAL	69
RFL6	Rudbeckia fulgida var. sullivantii 'Little Goldstar'	Little Goldsrar Black-eyed Susan	1 GAL	77
SES6	Sesleria autumnalis "	Autumn Moor Grass	1 GAL	97
SHE6	Sporobolus heterolepis "	Prairie Dropseed	1 GAL	137
SOB6	Symphyotrichum (Aster) oblongifolium "	Aromatic Aster	1 GAL	69
VEI6	Veronica 'Enchanted Indigo'	Enchanted Indigo Spike Speedwell	1 GAL	18

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
PLANTING DETAILS

Sheet
L-104

GENERAL NOTES:

1. CODES: CITY OF CHICAGO BUILDING CODE, 2019 (CBC)
   AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7-16
   AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 15TH EDITION
   AMERICAN CONCRETE INSTITUTE, ACI 318-14
   AMERICAN WELDING SOCIETY, AWS D1.1/D1.1M
   AMERICAN WELDING SOCIETY, AWS D1.4/D1.4M
2. DIMENSIONS AND ELEVATIONS ON STRUCTURAL DRAWINGS ARE TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AS WELL AS AGAINST FIELD CONDITIONS BY ALL CONTRACTORS.
3. UNLESS NOTED OTHERWISE, TYPICAL DETAILS, SECTIONS AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR CONDITIONS ELSEWHERE ON THE PROJECT EXCEPT WHERE DIFFERENT DETAIL IS INDICATED
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, PLUMBING, AND OTHER DISCIPLINES FOR LOCATION AND PLACEMENT OF OPENINGS, SLAB DEPRESSIONS, INSERTS, HANGERS, PIPE SLEEVES, CONCRETE PADS AND ANCHOR RODS, AND OTHER CONSTRUCTION REQUIREMENTS.
5. IF DISCREPANCIES APPEAR ON THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION FROM THE OWNER BEFORE BIDDING. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, IT IS PRESUMED THAT BOTH PROVISIONS WERE INCLUDED IN THE BID AND THE OWNER SHALL DETERMINE WHICH OF THE CONFLICTING REQUIREMENTS SHALL GOVERN. THE CONTRACTOR SHALL PERFORM THE WORK AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH THE OWNER'S DETERMINATION.
6. IN CASES WHERE MECHANICAL OR ELECTRICAL EQUIPMENT LOADING LISTED ON THE MANUFACTURER'S PRODUCT DATA SHEET EXCEEDS DESIGN LOADS INDICATED ON THE PLANS, CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO PROCEEDING WITH WORK.
7. IN ADDITION TO PROVISIONS OUTLINED IN THE STANDARD TERMS AND GENERAL CONDITIONS FOR SUBMITTALS, ALL RE-SUBMITTALS SHALL INCORPORATE COMMENTS MADE BY A/E ON PREVIOUS REVIEW(S). ANY CHANGES MADE FROM PREVIOUS SUBMITTAL MUST BE BUBBLED AND/OR CLEARLY IDENTIFIED. NON-COMPLIANT SUBMITTALS MAY BE REJECTED AT DISCRETION OF A/E.
8. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES. ANY DAMAGE TO THE EXISTING UTILITIES CAUSED BY CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND AT NO COST TO THE OWNER.
9. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR THE COST THEREOF.
10. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. BASED ON THE CONTRACTOR'S CONSTRUCTION METHODS AND SEQUENCING OF CONSTRUCTION, THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN THE LATERAL SUPPORT SYSTEM REQUIRED TO RESIST THE LATERAL LOADS DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND PROVIDE THE NECESSARY BRACING AND SUPPORTS DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE OVERALL STABILITY OF THE STRUCTURE UNTIL COMPLETION.
11. NEITHER THE ARCHITECT NOR THE STRUCTURAL ENGINEER SHALL BE RESPONSIBLE OR HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIONS WITH THE PROJECT. NEITHER THE ARCHITECT NOR THE STRUCTURAL ENGINEER SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURES TO CARRY OUT HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NEITHER THE ARCHITECT NOR THE STRUCTURAL ENGINEER SHALL BE RESPONSIBLE OR HAVE CONTROL OVER THE ACTS OF OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, ANY OF THE AGENTS, EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR FAILURE OF ANY OTHER PERSONS OUT OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FOUNDATION NOTES:

1. FOUNDATION RECOMMENDATIONS ARE BASED ON THE GEOTECHNICAL EXPLORATION REPORT BY TERRACON CONSULTANTS, PROJECT # MR185178, DATED NOVEMBER 15, 2018. REFERENCE SOIL REPORT AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT EXCAVATION, SITE PREPARATION, AND FOUNDATION CONSTRUCTION. THE STRUCTURE WAS DESIGNED FOR MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF.
2. FOR ANY DISCREPANCY BETWEEN STRUCTURAL DRAWINGS AND GEOTECHNICAL REPORT, THE GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE. ANY SUCH DISCREPANCIES SHALL BE REPORTED TO ARCHITECT OF RECORD.
3. ALL ABANDONED UTILITIES, AND ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND REPLACED WITH GRANULAR ENGINEERED FILL SUCH AS IDOT CA-6. PLACE FILL IN LIFTS NOT EXCEEDING 9", MOISTURE CONDITION TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT, AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH SPECIFICATION D1557, MODIFIED PROCTOR METHOD. SEE GEOTECHNICAL REPORT FOR SPECIFIC RECOMMENDATIONS.
4. THE SOIL SUBGRADE FOR ALL SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S TESTING LABORATORY IMMEDIATELY PRIOR TO PLACING CONCRETE.
5. ALL SLAB SUBGRADES SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM SPECIFICATION D1557, MODIFIED PROCTOR METHOD, AND MOISTURE CONDITIONED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. SEE GEOTECHNICAL REPORT FOR ADDITIONAL RECOMMENDATIONS.
6. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS.
7. NO MUD SLABS, BEAMS OR SLABS SHALL BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER, FROST, OR ICE ENTER A FOOTING OR SLAB EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE RE-INSPECTED BY THE OWNER'S TESTING LABORATORY.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADE IS FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
9. ALL PERIMETER WALL AND COLUMN FOUNDATIONS SHALL BEAR A MINIMUM OF 4'-0" BELOW FINISHED GRADE.
10. FILL AND UNSUITABLE MATERIALS SHALL BE REMOVED BELOW THE NEW FOUNDATION AND REPLACE WITH STRUCTURAL FILL PER DETAIL 9/S302. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC RECOMMENDATIONS.
11. THE CONTRACTOR SHALL USE CARE IN EXCAVATION AND GRADING NEAR EXISTING ITEMS TO REMAIN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO TEMPORARILY SUPPORT EXISTING FOUNDATIONS TO REMAIN DURING CONSTRUCTION.

EXISTING CONDITIONS NOTES:

1. EXISTING STRUCTURAL INFORMATION TAKEN FROM EXISTING STRUCTURAL DRAWINGS BY ANTHONY M. ROSSI A.I.A LTD DATED 05/23/1986 AND BY JENSEN & JENSEN DATED 07/17/1969.
2. ALL EXISTING CONDITIONS SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. ANY DISCREPENCIES SHOULD BE REPORTED TO THE AOR/EOR FOR REVIEW PRIOR TO FABRICATION, ERECTION AND/OR CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LATEST BUILDING CODE AND ANY OTHER CODES OF APPLICABLE REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING UPON THE PERFORMANCE OF THE WORK.
5. STABILITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR ALL CONSTRUCTIONS AND INSTALLATIONS DAMAGED AS A RESULT OF THE INSTALLATION OF THE NEW WORK, THE CONTRACTOR SHALL REPLACE OR REPAIR THE DAMAGE AT NO COST TO THE OWNER.

CONCRETE NOTES:

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-11) BY AMERICAN CONCRETE INSTITUTE.
2. ALL CONCRETE PERMANENTLY EXPOSED TO WEATHER SHALL CONTAIN AN APPROVED AIR ENTRAINING ADMIXTURE.
3. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ACCOMPANIED WITH RECENT FIELD TEST REPORT DATA OR TRIAL BATCH LAB REPORTS FOR ALL PROPOSED CONCRETE MIXES FOR APPROVAL PRIOR TO FIRST POUR.
5. VERTICAL WALL CONSTRUCTION JOINTS SHALL BE FORMED WITH VERTICAL BULKHEADS AND KEY-WAYS. WALL REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT OR SHALL BE DOWELED WITH AN EQUIVALENT AREA OF REINFORCEMENT
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, EMBEDDED PLATES, MASONRY ANCHORS, REGLETS, SLEEVES, DUCTWORK, PADS AND ANCHOR RODS. THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH CONCRETE REINFORCEMENT LOCATION. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENINGS THROUGH WALLS WITH SHOP DRAWINGS, SHOWING OPENINGS IN THE SLABS INCLUDING, BUT NOT LIMITED TO SLEEVE SIZES AND LOCATIONS, DUCT SIZE AND LOCATION, ETC.
7. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT
8. SLABS ON GRADE SHALL BE PLACED IN ALTERNATE STRIPS WITH A MAXIMUM WIDTH OF 30'-0" OR AS SHOWN ON PLAN. CONTROL JOINTS SHALL BE CUT WITHIN 4 TO 12 HOURS AFTER FINISHING WITH CONVENTIONAL SAW. CONTROL JOINTS SHALL NOT EXCEED 15'-0" INTERVALS IN EACH DIRECTION, AND SHALL BE LOCATED TO CONFORM WITH BAY SPACING WHEREVER POSSIBLE (I.E. AT COLUMN CENTERLINES, HALF-BAYS, THIRD-BAYS).
9. DEPRESSED SLABS SHALL MAINTAIN FULL THICKNESS UNLESS NOTED OTHERWISE.
10. ADHESIVE ANCHORS SHALL BE "HIT-RE 500 V3" AND EXPANSION ANCHORS SHALL BE "KWIK BOLT 3" AS MANUFACTURED BY HILTI, OR EQUAL. ANY SUBSTITUTED PRODUCT MUST MEET ALL OF THE DESIGN VALUES OF HILTI, AND BE APPROVED BY THE ARCHITECT. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
11. PITCH CONCRETE SLABS TO FLOOR DRAINS WHILE MAINTAINING THE SLAB THICKNESS AS INDICATED ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS, AND CURBS.
12. ALL STRUCTURAL CONCRETE AND CONCRETE FILL SHALL BE THOROUGHLY CONSOLIDATED WITH MECHANICAL VIBRATORS.
13. THE OWNER'S TESTING LABORATORY SHALL INSPECT THE PLACEMENT OF ALL CONCRETE, REINFORCEMENT, AND FORMWORK.
14. PROVIDE 3/4" CHAMFER ON ALL CORNERS OF EXPOSED CONCRETE, UNLESS NOTED OTHERWISE IN THE ARCHITECT'S DRAWINGS.
15. SHEAR REINFORCEMENT AT THE SLAB COLUMN CONNECTION AS INDICATED ON DRAWINGS AND DETAILS SHALL BE AS MANUFACTURED BY DECON (ESR-2494) OR DAYTON SUPERIOR CORPORATION (ESR-2696).
16. REFERENCE SPECIFICATION: SECTION 03 30 00 - CAST-IN-PLACE CONCRETE.
17. ALL CAST-IN-PLACE CONCRETE SHALL BE OF THE TYPE I OR II AND HAVING MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, F1S0W0C0 - ACI 318 CLASSIFICATION AND DENSITY 145 PCF. FOR ADDITIONAL INFORMATION SEE SPECIFICATION 03 30 00.

REINFORCEMENT NOTES:

1. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE STRUCTURES", ACI 318-2011, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
2. UNLESS NOTED OTHERWISE, DEFORMED BAR REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60 AND ASTM A706 FOR WELDED DEFORMED BAR REINFORCEMENT.
3. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
4. THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS INCLUDING STEEL SIZES, SPACING, PLACEMENT AND SUPPORT DETAILS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
5. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT THE POSITIONS INDICATED. PLASTIC COATED OR STAINLESS STEEL ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
6. ALL EMBEDMENT LENGTHS AND LAPS SHALL BE AS REQUIRED BY ACI 318. UNLESS NOTED OTHERWISE, MINIMUM LAP SHALL BE 36 BAR DIAMETERS
7. UNLESS NOTED OTHERWISE ON PLANS, ALL CONCRETE FORMED SLAB OR WALL OPENINGS SHALL BE REINFORCED AT EACH CORNER WITH MINIMUM 2 NO. 5 BARS, PLACED ONE IN EACH FACE AT 45 DEGREES AND PROJECTING MINIMUM 2'-0" BEYOND CORNER.
8. WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND QUANTITY OF MAIN REINFORCING, UNLESS NOTED OTHERWISE
9. THE OWNER'S TESTING AGENCY SHALL INSPECT THE PLACEMENT OF ALL REINFORCEMENT.
10. THE CONCRETE COVER PROVIDED FOR ALL REINFORCEMENT SHALL COMPLY WITH ACI, 318, LATEST EDITION. THE CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT PER TABLE 1, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL NOTES:

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL WORK SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL, THIRTEENTH EDITION AND ANSI/AISC 360-05 SPECIFICATIONS AND AISC 303-05 CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, ANGLES, CHANNELS AND MISCELLANEOUS MATERIAL SHALL CONFORM TO ASTM A36. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B.
3. ANCHOR RODS SHALL BE ASTM F1554, GRADE 55, 3/4 INCH DIAMETER WITH 12 INCH EMBEDMENT, UNLESS NOTED OTHERWISE.
4. HIGH STRENGTH BOLTING SHALL BE DONE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS."
5. BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. WASHERS - ASTM F436. NUTS - ASTM A563. BOLTS SHALL BE 3/4 INCH DIA. MINIMUM UNLESS OTHERWISE INDICATED.
6. WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 STRUCTURAL WELDING CODE - STEEL, LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70XX.
7. THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, ENGINEERED AND CHECKED SHOP DRAWINGS SHOWING FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
8. UNLESS NOTED OTHERWISE, ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR, USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE TYPICAL DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL ONLY, AND, UNLESS SPECIFICALLY NOTED, DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES.
9. THE FABRICATOR SHALL SUBMIT CALCULATIONS FOR EACH CONNECTION TYPE AND MEMBER SIZE WITH DETAILS AND COORDINATED SHOP DRAWINGS. CALCULATIONS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
10. STEEL BEAM AND GIRDER CONNECTIONS SHALL BE DESIGNED USING THE LOAD AND RESISTANCE FACTOR DESIGN METHOD FOR FORCES INDICATED ON THE DRAWINGS AND SHEET S002. WHERE NO REACTION IS INDICATED, USE 75% OF THE UNIFORM DISTRIBUTED LOAD (UDL) FOR BEAMS AND MINIMUM CONNECTION SHEAR FACTORED FORCE OF 15 KIPS. REFERENCE AISC STEEL CONSTRUCTION MANUAL, THIRTEENTH EDITION TABLE 3 - 6 FOR UNIFORM LOAD (LRFD).
11. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE EITHER AISC DOUBLE ANGLE OR SINGLE PLATE SIMPLE SHEAR CONNECTIONS PROVIDING ROTATIONAL DUCTILITY AS DEFINED BY AISC. ALL BOLTED COMPONENTS SHALL UTILIZE MINIMUM 2 BOLTS IN BEARING. CONNECTIONS SHALL EXTEND TO AT LEAST ONE HALF OF THE BEAM DEPTH.
12. FIELD CONNECTIONS, EXCEPT WHERE SHOWN TO BE WELDED, SHALL BE BOLTED.
13. BEAMS AND GIRDERS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
14. ALL STEEL SURFACES WHICH WILL BE PERMANENTLY EXPOSED TO ELEMENTS SHALL BE HOT-DIPPED GALVANIZED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS.
16. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER.

STRUCTURAL STEEL NOTES, CONTINUED:

17. ERECT AND MAINTAIN TEMPORARY BRACING TO INSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURE DURING ERECTION UNTIL PERMANENT CONNECTIONS HAVE BEEN COMPLETED. LATERAL SYSTEM ELEMENTS FOR THIS PROJECT CONSIST OF (BUT ARE NOT NECESSARILY LIMITED TO) THE FOLLOWING: STEEL BRACING, FLOOR & ROOF DIAPHRAGMS.
18. PROVIDE 0.25 INCH END PLATES SEAL WELDED TO ENDS OF ALL HSS MEMBERS U.N.O.
19. SHOP AND FIELD TESTING AND INSPECTION OF STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE PERFORMED BY THE OWNER'S TESTING AGENCY AS OUTLINED IN THE SPECIFICATIONS.
20. REFERENCE SPECIFICATION: SECTION 051200 - STRUCTURAL STEEL FRAMING.

MINIMUM DESIGN LOADS:

FLOOR LIVE LOAD:

OFFICES	50 PSF
LOBBIES, PUBLIC CORRIDORS, STAIRWAYS	100 PSF
PUBLIC AREA	100 PSF
LIGHT STORAGE AREAS	125 PSF
MECHANICAL & PENTHOUSE (OR ACTUAL EQUIP. WT.)	150 PSF

PARTITION LOADS

(EXCEPT FOR LIVE LOAD EXCEEDING 80 PSF)	15 PSF

SUPERIMPOSED LOADS

ALLOWANCE FOR SBS MODIFIED BITUMINOUS ROOF	6 PSF
ALLOWANCE FOR M.E.P	5 PSF
ALLOWANCE FOR CEILING	5 PSF
ALLOWANCE FOR CURTAIN WALL SYSTEM	15 PSF

ROOF SNOW LOADS

MINIMUM FLAT SNOW LOAD	20 PSF
SNOW DRIFT AT ELEVATION	SEE DIAGRAMS ON SHEET S002
GROUND SNOW, P_G	25 PSF
IMPORTANCE FACTOR (RISK CATEGORY II)	1.0
EXPOSURE FACTOR, C_E	1.0
THERMAL FACTOR, C_T	1.0

WIND LOADS

BASIC WIND SPEED, V	107 MPH
EXPOSURE CATEGORY	B
WIND DIRECTIONALITY FACTOR, K_D	0.85
WIND TOPOGRAPHICAL FACTOR, K_{ZT}	1.0
GUST-EFFECT FACTOR, G	0.85
INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING)	± 0.18
MAIN WIND FORCE RESISTING SYSTEM	
WIND FACING WALLS	17.5 PSF
SIDE WALLS	12.5 PSF
WINDWARD PARAPET	24.5 PSF
LEEWARD PARAPET	16.5 PSF
FLAT ROOF UPLIFT	15.0 PSF
COMPONENTS AND CLADDING	
CORNER ZONES	25.5 PSF
OTHER THAN CORNER ZONES	20.5 PSF

EARTHQUAKE LOADS

SITE CLASS	D
IMPORANCE FACTOR, IE, (RISK CATEGORY II)	1.0
SPECTRAL RESPONSE ACCELERATION PARAMETER AT SHORT PERIOD, S_S	0.119
SPECTRAL RESPONSE ACCELERATION PARAMETER AT 1 SECOND PERIOD, S_1	0.063
S_{DS}	0.127
S_{D1}	0.101
SEISMIC DESIGN CATEGORY, SDC	B
RESPONSE MODIFICATION COEFFICIENT, R	3.0
SEISMIC FORCE RESISTING SYSTEM, SFRS	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTIVER COLUMN SYSTEM
SEISMIC RESPONSE COEFFICIENT, C_S	0.042
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

THRUST ON HANDRAILS

SIMULTANEOUS VERTICAL & HORIZONTAL THRUST	50 PLF
ALTERNATE CONCENTRATED LOAD	200 LB

DEFLECTIONS

LATERAL DEFLECTION (LG AND CURTAIN WALL SYSTEM)	H/600 AND 3/4" MAX
VERTICAL MAX. DEFLECTION AT FLOOR EDGES (LIVE & LONG TERM)	3/4"
LATERAL INTER-STORY DRIFT DUE TO WIND LOAD(+/-)	H/400 AND 1/2" MAX

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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
GENERAL STRUCTURAL NOTES

Sheet S001

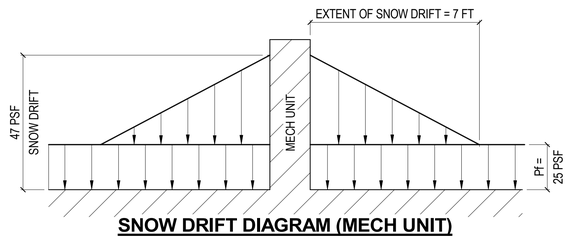
METAL DECK NOTES:

1. METAL DECK SHALL BE FABRICATED, DETAILED, AND ERECTED IN ACCORDANCE WITH THE "STEEL DECK INSTITUTE (SDI) SPECIFICATIONS."
2. METAL DECK SECTION PROPERTIES SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". METAL DECKING SHALL BE FABRICATED FROM STEEL TYPE ASTM A653, STRUCTURAL QUALITY, HAVING A MINIMUM YIELD STRENGTH OF 33 KSI.
3. GALVANIZING SHALL CONFORM TO ASTM A653 WITH MINIMUM COATING CLASS OF G60.
4. PROVIDE ENGINEERED AND CHECKED SHOP DRAWINGS INDICATING LOCATION, GAGE AND SIZE OF EACH PIECE OF DECKING AND RELATED DECKING ACCESSORY. THE SHOP DRAWINGS SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING, SIDE LAP CONNECTION DETAILS, DECK OPENINGS, EDGE CLOSURES, AND ANY REQUIRED SUPPLEMENTARY DECK REINFORCING.
5. STEEL ROOF DECK SHALL BE 1 1/2" DEEP WITH MINIMUM 18 GAGE, TYPE AS INDICATED ON PLANS.
6. THE METAL DECK SHALL BE DESIGNED TO BE CONTINUOUS OVER THREE (3) SPANS IN THE DIRECTION INDICATED. SINGLE AND DOUBLE SPANS, IF REQUIRED, SHALL SATISFY LOAD AND DEFLECTION REQUIREMENTS.
7. ALL DECKING SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS USING PRE-QUALIFIED PROCEDURES.
8. METAL DECKING SHALL BE WELDED AT 12 INCHES MAXIMUM ON CENTER OR (AS REQUIRED BY SPECIFICATIONS) TO THE SUPPORTING STEEL, WITH 3/4 INCH DIAMETER PUDDLE WELDS. SIDE LAPS SHALL BE FASTENED BY WELDING OR WITH #10 TEK SCREWS AT 18 INCHES MAXIMUM ON CENTER.
9. PROVIDE CONTINUOUS SHEET METAL CLOSURES AT SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURE AT DECK ENDS. MINIMUM CLOSURE GAGE SHALL COMPLY WITH STEEL DECK INSTITUTE RECOMMENDATIONS FOR THE SLAB DEPTH AND OVERHANG DISTANCE.
10. PROVIDE, AS REQUIRED, RIDGE AND VALLEY PLATES, COLUMN CLOSURES, CANT STRIPS, SUMP PLATES AT PIPING PENETRATIONS AND RECESSED SUMP PANS AT ROOF DRAINS. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS AS REQUIRED FOR SUPPORT OF THE METAL DECK. OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
11. ANY METAL DECK OPENING THAT IS 12-INCH DIAMETER OR LARGER OR ANY GROUP OF OPENINGS THAT PENETRATE MORE THAN ONE METAL DECK RIB SHALL BE FRAMED WITH SUPPLEMENTAL STEEL FRAMING AS INDICATED ON THE DRAWINGS.
12. ALL HANGERS FOR HIGH PRESSURE DUCTWORK, CONDUIT RACKS, PIPES LARGER THAN 4" DIAMETER, ETC. SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL FRAMING OR SUPPLEMENTAL MEMBERS ACCEPTABLE TO THE ARCHITECT.
13. A 50 LB. MAXIMUM CONCENTRATED LOAD MAY BE HUNG DIRECTLY FROM THE COMPOSITE DECK PROVIDED NO OTHER DECK SUPPORTED HANGER IS WITHIN A 30" RADIUS. THIS NOTE SUPERSEDES ANY SIMILAR NOTES ON THE MEP/FP DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING AN APPROPRIATE ANCHORING SYSTEM.
14. NO LOADS SHALL BE PERMITTED TO BE HUNG DIRECTLY FROM METAL ROOF DECK.
15. THE ASSUMED CONSTRUCTION LIVE LOAD IS 20 PSF. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ENSURE TEMPORARY CONSTRUCTION LOADINGS DO NOT EXCEED ALLOWABLE LOADING FOR THE TYPE AND GAGE OF DECK.
16. REFERENCE SPECIFICATION: SECTION 05 31 00 - STEEL DECKING.

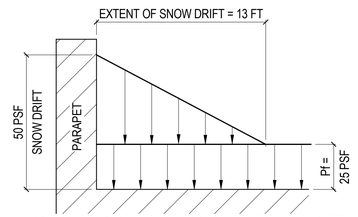
PLACEMENT OF CONDUITS IN STRUCTURAL SLABS NOTES:

1. PLACE CONDUITS BETWEEN SLAB TOP AND BOTTOM REINFORCEMENT.
2. MAXIMUM EMBEDDED CONDUIT SIZE SHALL NOT BE LARGER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB. MINIMUM SPACING BETWEEN CONDUITS SHALL BE 3 CONDUIT DIAMETERS CLEAR.
3. DO NOT CROSS OVER MORE THAN ONE CONDUIT AT ANY LOCATION.
4. CONDUIT RUNNING PARALLEL TO SLAB REINFORCEMENT MUST HAVE MINIMUM 2" CLEAR SPACING BETWEEN THE CONDUIT AND THE REINFORCEMENT.
5. THE USE OF ALUMINUM CONDUIT SHALL BE PROHIBITED UNLESS COATED OR COVERED TO PREVENT REACTION WITH THE CONCRETE AND STEEL REINFORCEMENT.
6. PLACEMENT OF CONDUITS, PIPES AND SLEEVES SHALL BE IN ACCORDANCE TO SECTION 6.3 "EMBEDMENTS IN CONCRETE" OF ACI 318.

SNOW DRIFT DIAGRAM



SNOW DRIFT DIAGRAM (MECH UNIT)
WIDTH > 12 FT



SNOW DRIFT DIAGRAM (PARAPET)

ABBREVIATIONS & SYMBOLS

AB	ANCHOR BOLT
ADJ	ADJACENT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AR	ANCHOR ROD
ARCH	ARCHITECTURAL
A/E	ARCHITECT AND/OR ENGINEER
BAL	BALANCE
BM	BEAM
BLDG	BUILDING
BOT	BOTTOM
BOD	BOTTOM OF DECK
B/BM	BOTTOM OF BEAM
B/FTG	BOTTOM OF FOOTING
BS	BOTH SIDES
BSMT	BASEMENT
CANT	CANTILEVER
CBC	CHICAGO BUILDING CODE
CCD	CHICAGO CITY DATUM
C/C OR CC	CENTER TO CENTER
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONNX	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
DBA	DEFORMED BAR ANCHOR (NELSON)
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DWG	DRAWING(S)
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EMB	EMBEDMENT
EOD	EDGE OF DECK
EOS	EDGE OF SLAB OR STEEL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISHED
FLR	FLOOR
FS	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
GALV	GALVANIZED
GC	GENRAL CONTRACTOR
GEN	GENERAL
HCA	HEADED CONCRETE ANCHOR
HDPE	HIGH DENSITY POLYETHYLENE
HEX	HEXAGONAL
HORIZ, HOR	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INFO	INFORMATION
INV	INVERT
INT	INTERIOR
JT	JOIN T
K	KIP (ONE THOUSAND POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGL
LG	LIGHT GAUGE
LO	LOCATIO
LNG, LONG	LONGITUDINA
L	LOW
LTW	LIGHT
LW	LIGHTWEIGHT
C	CONCRETE

MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER(S)
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPP	OPPOSITE
OPNG	OPENING
PCC	PORTLAND CEMENT CONCRETE
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PT	POST-TENSION(ED)
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REM	REMOVAL
REPL	REPLACE, REPLACEMENT
REQD	REQUIRED
RET	RETAINING
SCH	SCHEDULE(D
SIM	SIMILA
SO	SLAB-ON-
SP	SPACIN
SPE	SPECIFICATION
S	SQUAR
S	STAINLESS
ST	STANDAR
STIFF	STIFFENER
ST	STEE
ST	STRUCTURE;
TEMP	TEMPORARY-
TG	TRANSFER GIRDER
THK	THICK
THD	THREAD
TD	TRENCH DRAIN
TSF	TONS PER SQUARE FOOT
TYP	TYPICAL
T&B	TOP AND BOTTOM
T/BM	TOP OF BEAM
T/COL	TOP OF COLUMN
T/FLR	TOP OF FLOOR
T/FTG	TOP OF FOOTING
T/STL	TOP OF STEEL
T/SLAB	TOP OF SLAB
T/WALL	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WS	WATER STOP
WWF	WELDED WIRE FABRIC
@	AT
&	AND
%	PERCENT
#	POUND, NUMBER
	ELEVATION TARGET

L — 6 / S100 — SECTION NUMBER / SHEET NUMBER

6 / S100 — ELEVATION NUMBER / SHEET NUMBER

SIMPLE SHEAR CONNECTION

FULL MOMENT CONNECTION

( ) DESIGNATES NUMBER OF SHEAR CONNECTORS

[ ] DESIGNATES CONNECTION REACTION

< > DESIGNATES CAMBER

TABLE 1: REINFORCING BAR DEVELOPMENT AND SPLICE LENGTH IN INCHES (f'c = 4.5 ksi & fy = 60 ksi)

BAR SIZE	TENSION DEVELOPMENT & CLASS "A" SPLICE		CLASS "B" SPLICE		ACI STD 90 DEG HOOK		COMPRESSION BARS	
	TOP BAR (Ldt)	OTHER BAR (Ldo)	TOP BAR (Lst)	OTHER BAR (Lso)	EMBED-MENT (Ldh)	LENGTH (Lh)	DEVELOP-MENT (Ldc)	SPLICE
#4	15	12	20	16	10	8	10	15
#5	19	15	24	19	12	10	12	19
#6	23	18	29	23	15	12	15	23
#7	37	29	48	37	17	14	17	27
#8	47	36	61	47	19	16	19	30
#9	57	44	75	57	22	19	22	34
#10	70	54	91	70	25	22	25	39
#11	84	65	109	84	27	24	27	43

NOTES:

1. STRAIGHT DEVELOPMENT AND CLASS "B" SPLICE LENGTH SHOWN IN ABOVE TABLE ARE BASED ON UNCOATED BARS ASSUMING BAR SPACING = 12" WITHOUT TIES OR STIRRUPS, BAR CLEAR COVER = 1.5". NORMAL WEIGHT CONCRETE W/ NO TRANSVERSE REINFORCEMENT AND NO EXCESS REINFORCING IS ASSUMED.
2. STANDARD 90 DEG HOOK EMBEDMENT LENGTH IS BASED ON BAR SIDE AND END COVER = 2.5" WITHOUT TIES AROUND HOOK.
3. FOR ALL TOP EPOXY-COATED BARS IN TENSION (SPLICED OR DEVELOPED WITH OR WITHOUT HOOK) INCREASE VALUES IN THIS TABLE BY 30%.
4. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF DEVELOPMENT LENGTH OF LARGER BAR AND TENSION LAP SPLICE LENGTH OF SMALLEST BAR.
5. ALL SPLICES SHOWN ON DRAWINGS SHALL BE CLASS "B" UNO.
6. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE DEVELOPMENT LENGTH ON SPLICE.

TABLE 2: BEAM REACTION TABLE

BEAM	REACTION	BEAM	REACTION
W36	190 KIPS	W16	79 KIPS
W33	190 KIPS	W14,C15	63 KIPS
W30	159 KIPS	W12,C12	47 KIPS
W27	143 KIPS	W10,C10	30 KIPS
W24	127 KIPS	W8,C8	25 KIPS
W21	110 KIPS	W6,C6	15 KIPS
W18,C18	95 KIPS	W5,C5	15 KIPS

REACTIONS ARE FACTORED LOADS.

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
GENERAL STRUCTURAL NOTES, ABBREVIATIONS

Sheet
S002

SPREAD FOOTING SCHEDULE							
FOUNDATION MARK	LENGTH	WIDTH	FOOTING THICKNESS	LONG BAR (BOT)	LONG BAR (TOP)	SHORT BAR (BOT)	SHORT BAR (TOP)
F4	4' - 0"	4' - 0"	1' - 0"	5#6		5#6	
F5	5' - 0"	5' - 0"	1' - 0"				
F6	6' - 0"	6' - 0"	1' - 0"	7#6		7#6	
F7	7' - 0"	7' - 0"	1' - 0"	8#6		8#6	

NOTES:
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S001 AND S002.
2. SOG-1 DENOTES 5" CONCRETE SLAB ON GRADE WITH 4x4 W2.9xW2.9 WWF. TOP OF SLAB EL. 100'-0", TYP UNO.
3. REMOVE EXISTING FOUNDATION WALL DOWN TO ELEVATION BELOW NEW SLAB ON GRADE AS REQUIRED. FILL THE SPACE BETWEEN EXISTING FOUNDATION WALL WITH LEAN CONCRETE (f'c=1,200 PCI) IN VICINITY OF THE NEW ENTRANCE AREA.
4. REMOVE EXISTING FOUNDATION OUTSIDE WALL DOWN TO ELEVATION FINISH GRADE OR BELOW WALKWAY SLAB, TYP, UNO. SEE CIVIL DRAWINGS.
5. REMOVE EXISTING FOUNDATION WALL, WHICH WILL BE USED FOR THE NEW EXTERIOR WALL, DOWN TO ELEVATION OF FINISH FLOOR, TYP, UNO.
6. PROVIDE DOWELS #5 @12" OC AND 5" FROM TOP OF THE WALL WITH 6" MINIMUM EMBEDMENT INTO EXISTING FOUNDATION WALL WITH EPOXY ANCHOR SYSTEM, TYPICAL, UNO.
7. EXTEND OF REMOVAL EXISTING SLAB ON GRADE INSIDE OF EXISTING BUILDING TO BE VERIFIED IN FIELD. SEE DETAIL 10/S302 FOR NEW-EXISTING SLAB ON GRADE DETAIL.
8. NEW COLUMN W8 AND NEW LINTEL'S POST HSS4x4 TO BE INSTALLED AND FULLY CONNECTED PRIOR TO REMOVAL OF EXISTING COLUMN W8.
9. LINTEL POSTS LOCATION AND LINTEL T/STEEL ELEVATION SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, TYP.

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

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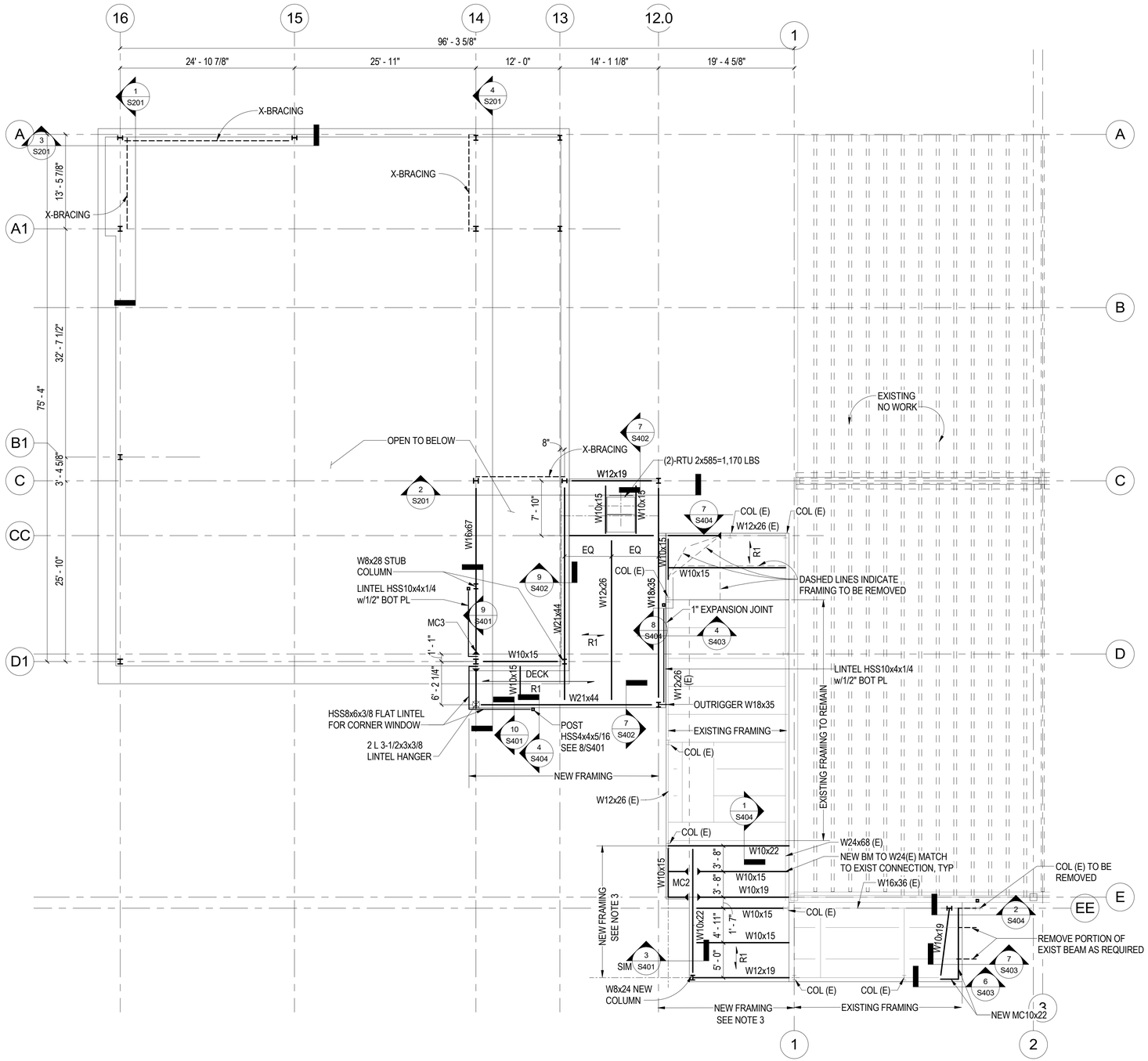
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
FOUNDATION PLAN

Sheet
S101



2 LOWER ROOF AND EXISTING ENTRANCE FRAMING PLAN

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

NOTES:
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S001 AND S002.
2. R1 DENOTES WIDE RIB ROOF DECK 1 1/2" 18 GAGE GALVANIZED. TOP OF DECK EL. 15'-5".
3. TOP OF STEEL ELEVATION AND SLOPE OF THE NEW FRAMING AT THE EXISTING ENTRANCE TO MATCH THE EXISTING FRAMING.
4. ALL LOADS INDICATED ARE SERVICE LOADS.
5. MC1 DENOTES MOMENT CONNECTION PER DETAIL 4/S401 WITH SERVICE FORCES MOMENT M=15 KIP-FT AND SHEAR V=10 KIPS;
   MC2 - MOMENT M=6 KIP-FT AND SHEAR V=10 KIPS.
6. MC3 DENOTES MOMENT CONNECTION PER DETAIL 2/S401 WITH SERVICE FORCES MOMENT M=180 KIP-FT AND SHEAR V=35 KIPS.
7. ALL WALLS SHALL BE BRACED AT TOP FLANGE OF THE ROOF BEAM. IN CASE OF WALL CONNECTED TO BOTTOM FLANGE OF THE BEAM, THEN THE BOTTOM FLANGE OF THE BEAM HAS TO BE BRACED PER DETAIL 9/S403.
8. TOP OF STEEL ELEVATION EL. 15'-3 1/2" TYP, UNO
9. CONTRACTOR VERIFY EXISTING CONDITION, DESIGNED AND PROVIDE CONNECTION DETAIL FOR NEW FRAMING TO EXISTING FOR ALL LOCATIONS WHERE DETAIL NOT INDICATED.
10. LINTEL POSTS LOCATION AND LINTEL T/STEEL ELEVATION COORDINATE WITH ARCHITECTURAL DRAWINGS, TYP.

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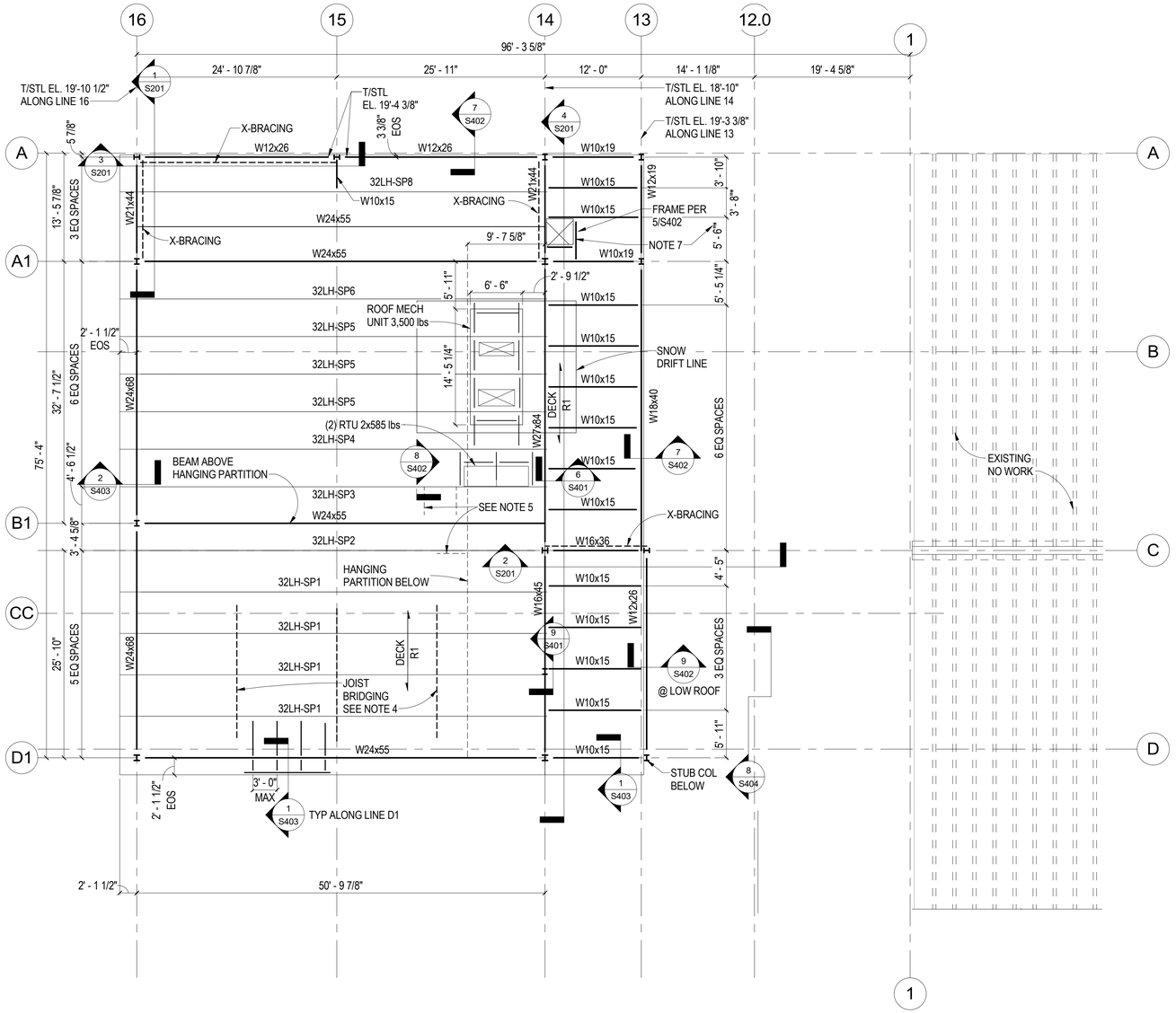
PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER ROOF AND EXISTING ENTRANCE FRAMING PLAN

Sheet
S102

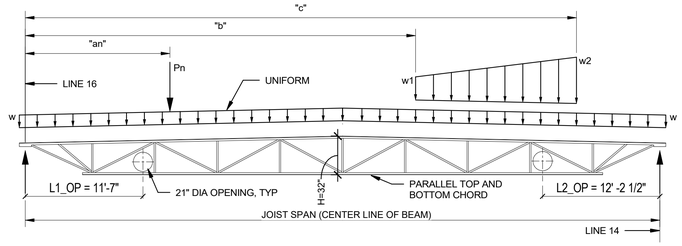


1 HIGH ROOF FRAMING PLAN

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

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS S001 AND S002.
2. R1 DENOTES WIDE RIB TYPE B ROOF DECK 1 1/2" x18 GAUGE GALVANIZED.
3. FOR LOCATION OF MECHANICAL UNITS COORDINATE WITH MECHANICAL DRAWINGS.
4. PROVIDE JOIST BRIDGING AT 14'-0" MAXIMUM OR PER JOIST MANUFACTURER'S REQUIREMENTS.
5. HANGING PARTITION HANGS FROM ROOF STEEL JOISTS IN EAST-WEST DIRECTION OR STEEL BEAM ON COLUMN LINE B1. SPACING OF SUPPORT PER PARTITION MANUFACTURER. THE CONTRACTOR TO COORDINATE FINAL SUPPORTING DETAIL WITH PARTITION MANUFACTURER.
6. FOR LATERAL DIAGONAL BRACING FOR FOLDING PARTITION SEE ARCHITECTURAL DRAWINGS AND DETAIL 8/S402. PROVIDE LATERAL BRACING AT 5'-0" ON CENTER MAXIMUM OR PER PARTITION MANUFACTURER'S REQUIREMENTS.
7. COORDINATE LOCATION OF THE ROOF ACCESS OPENING, LOCATION OF THE STEEL FRAMING FOR THE OPENING, AND DIMENSIONS INDICATED WITH A STAR WITH ARCHITECTURAL DRAWINGS.
8. ALL WALLS SHALL BE BRACED AT TOP FLANGE OF THE ROOF BEAM. IN CASE OF WALL CONNECTED TO BOTTOM FLANGE OF THE BEAM, THEN THE BEAM HAS TO BE BRACED PER DETAIL 9/S403.
9. CONTRACTOR TO CONFIRM WEIGHT OF MECHANICAL UNITS FROM SELECTED MANUFACTURER AND INFORM A/E IF THE LOADS EXCEED THE SPECIFIED LOADS.



MARK	w - UNIFORM LOAD (PLF)		Pn - CONCENTRATED LOAD (LBS)			w - PARTIAL LOAD (PLF)						REMARKS
	DEAD	LIVE	DEAD	LIVE	"an"	w1 DEAD	w2 DEAD	w1 LIVE	w2 LIVE	"b"	"c"	
32LH-SP1	181	130	-	5000	41'-2"	-	-	-	-	-	-	NET UPLIFT = 50 PLF, CAMBER PER SJI
32LH-SP2	150	107	-	5000	41'-2"	-	-	-	-	-	-	NET UPLIFT = 50 PLF, CAMBER PER SJI
32LH-SP3	162	116	-	(2) 400	24'-2", 33'-2"	-	-	-	-	-	-	NET UPLIFT = 50 PLF, CAMBER PER SJI
				5000	41'-2"	-	-	6	6	35'-6"	50'-10"	
32LH-SP4	164	117	-	(2) 250	24'-2", 33'-2"	-	-	80	80	35'-6"	50'-10"	NET UPLIFT = 50 PLF, CAMBER PER SJI
			-	5000	41'-2"	-	-	-	-	-	-	
32LH-SP5	164	117	-	(2) 800	41'-6", 48'-0 1/2"	-	-	0	141	34'-6"	41'-6"	NET UPLIFT = 50 PLF, CAMBER PER SJI
			-	5000	41'-2"	-	-	141	84	48'-0 1/2"	50'-10"	
32LH-SP6	164	117	-	(2) 70	41'-6", 48'-0 1/2"	-	-	80	80	35'-6"	50'-10"	NET UPLIFT = 50 PLF, CAMBER PER SJI
			-	5000	41'-2"	-	-	-	-	-	-	
32LH-SP7	152	109	-	-	-	-	-	800	800	32'-3"	44'-3"	NET UPLIFT = 50 PLF, CAMBER PER SJI
32LH-SP8	152	109	-	-	-	-	-	-	-	-	-	NET UPLIFT = 50 PLF, CAMBER 50% OF STANDARD CAMBER PER SJI

1. SEE NOTES ON S001 AND S002.
2. THE STEEL JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI).
3. PROVIDE ONE SHOP COAT OF PRIMER (TT-P-636) EXCEPT ITEMS TO RECEIVE SPRAY FIREPROOFING.
4. REFER TO DETAILS ON S4.02 FOR SPECIAL TREATMENT OF CONCENTRATED LOADS SUPPORTING BY JOISTS.
5. JOISTS SHALL BE DESIGNED TO RESIST A NET UPLIFT AS SHOWN ON THE LOADING TABLE ABOVE.
6. LOAD DIAGRAM AS PER ASCE 7-10 USING ALLOWABLE STRESS DESIGN (ASD).
7. THE STEEL JOIST MANUFACTURER SHALL SUBMIT STRUCTURAL CALCULATIONS, FOR ALL JOISTS AND JOIST CONNECTIONS PREPARED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS. THE CONTRACTOR SHALL ALSO PROVIDE DETAILED AND CHECKED SHOP DRAWINGS FOR ALL JOISTS AND BRIDGING.
8. PROVIDE HORIZONTAL OR DIAGONAL TYPE BRIDGING FOR ALL JOISTS AS REQUIRED BY SJI SPECIFICATION AND AS INDICATED ON THE DRAWINGS. THE ENDS OF ALL BRIDGING LINES TERMINATING AT BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. PROVIDE ALL REQUIRED BRIDGING ANCHORS.
9. ALL JOISTS SHALL BE DESIGNED FOR CONCENTRATED "ADD-LOAD" OF 300 POUNDS LOCATED AT ANY ONE PANEL POINT ALONG THE JOIST. ALL JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES FOR 150 POUNDS (BEND-CHECK LOAD) LOCATED AT ANY LOCATION ALONG THE BOTTOM CHORD.
10. JOIST DIAGONAL MEMBERS LOCATED IN THE MIDDLE QUARTER OF THE SPAN SHALL BE DESIGNED FOR A MINIMUM SHEAR, IN COMPRESSION, OF 25 PERCENT OF THE END REACTION. THIS MINIMUM DESIGN LOAD SHALL BE TO ACCOUNT FOR THE POSSIBILITY OF SHEAR REVERSAL DUE TO UNBALANCED LOADING.
11. JOIST SEATS SHALL HAVE THE CAPACITY TO RESIST A LATERAL FORCE APPLIED TO THE TOP CHORD, PERPENDICULAR TO THE SPAN (ROLLOVER). PROVIDE A MINIMUM ROLLOVER FORCE OF 1,000 POUNDS FOR SEATS (5 INCHES DEEP) AT DESIGNATED JOIST LOCATIONS. THIS DOES NOT APPLY IF "COLLECTOR" IS PROVIDED BETWEEN JOISTS.
12. CAMBER PER SJI, UNLESS NOTED OTHERWISE ON PLAN.
13. JOIST ORIENTATION IN DIAGRAM IS LOOKING WEST.
14. REFERENCE SPECIFICATION 05 21 00 - STEEL JOISTS.

2 JOIST SCHEDULE

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

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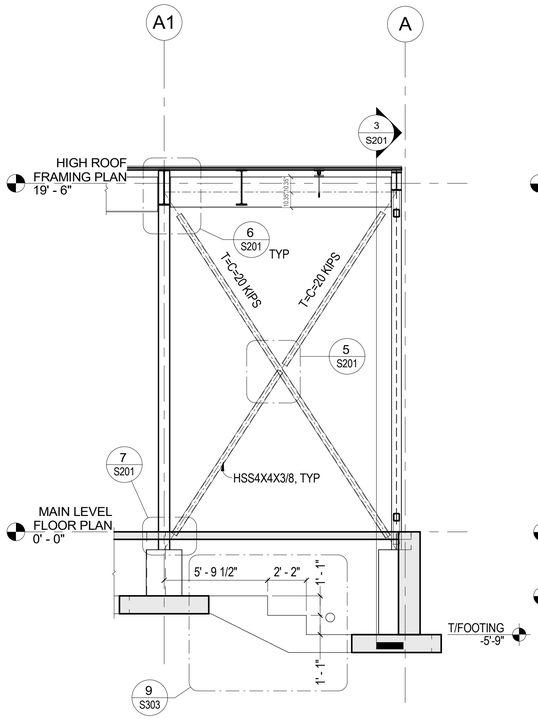
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

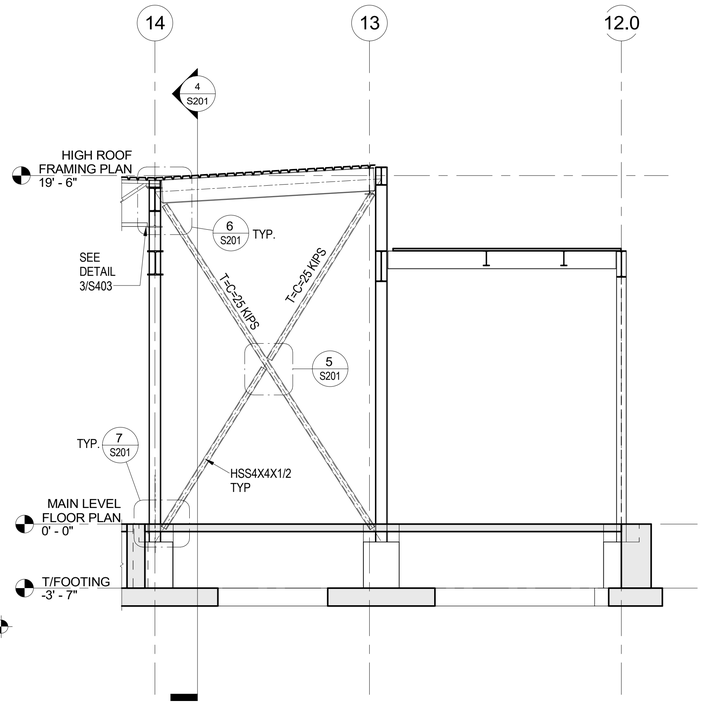
Title
HIGH ROOF FRAMING PLAN

Sheet S103



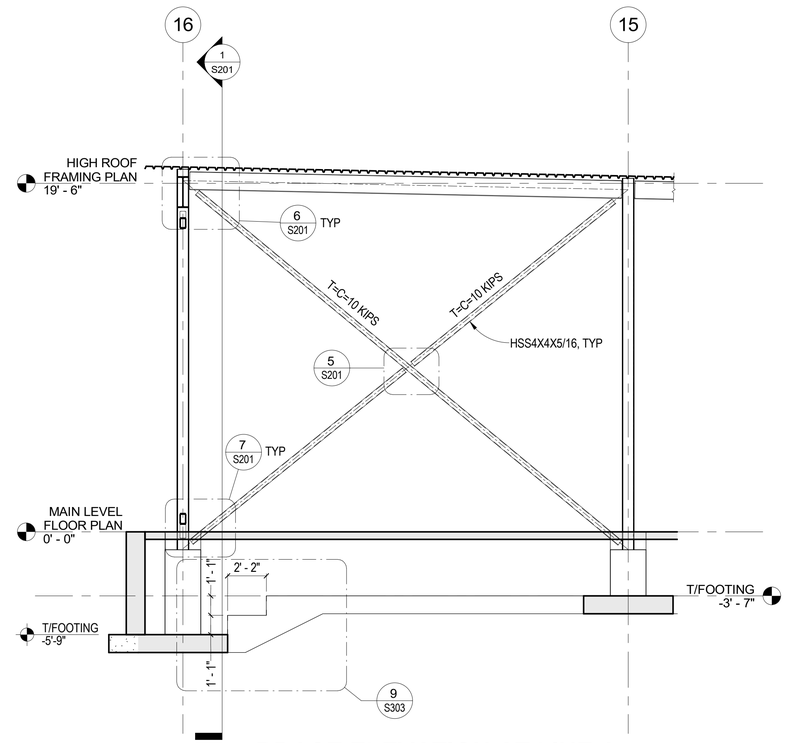
1 BRACE ELEVATION AT LINE 16

SCALE: 1/4" = 1'-0"



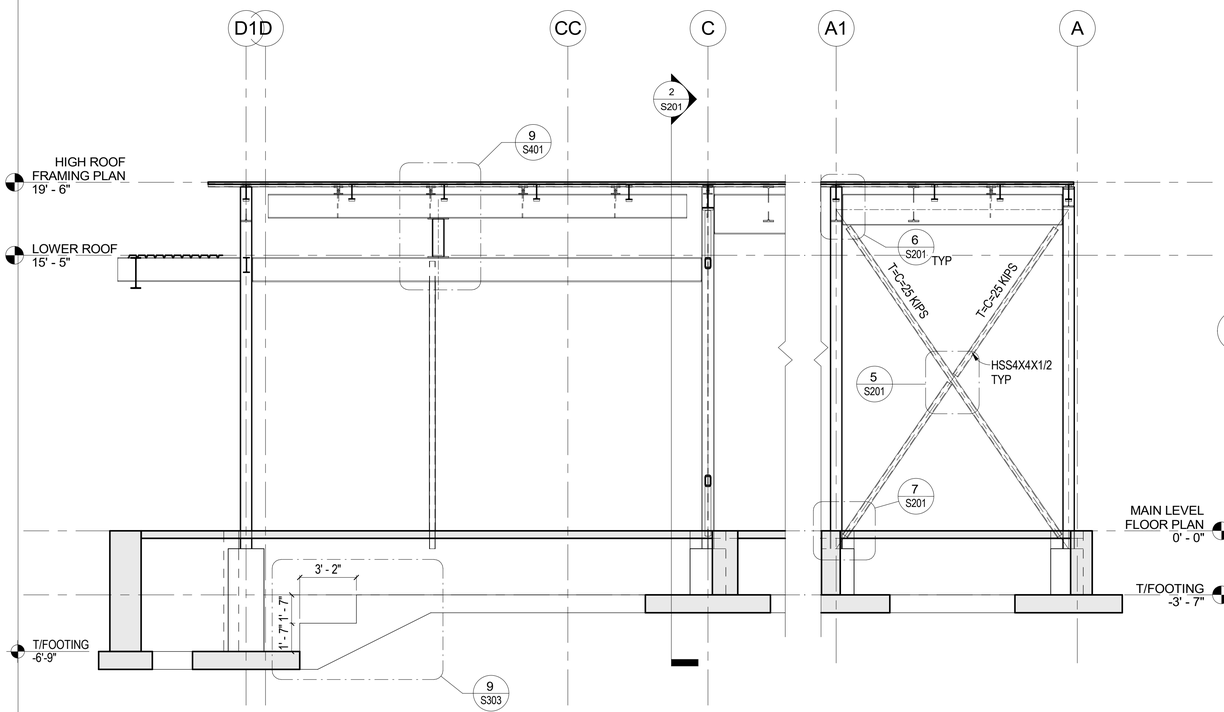
2 BRACE ELEVATION AT LINE C

SCALE: 1/4" = 1'-0"



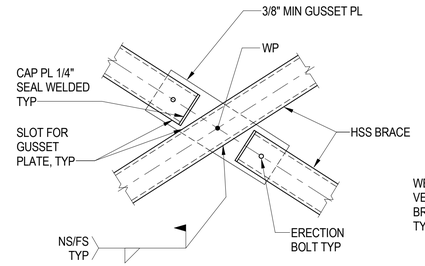
3 BRACE ELEVATION AT LINE A

SCALE: 1/4" = 1'-0"



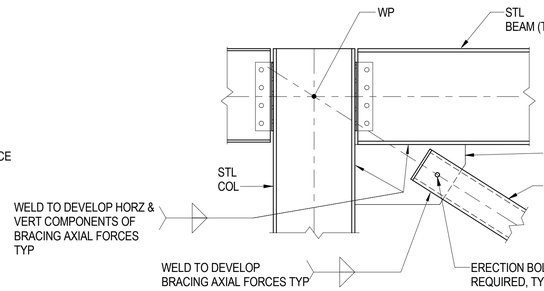
4 BRACE ELEVATION AT LINE 14

SCALE: 1/4" = 1'-0"



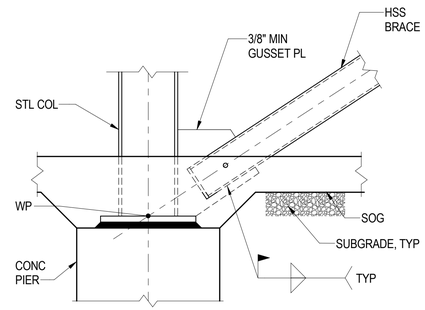
5 TYPICAL BRACING DETAIL

SCALE: 1" = 1'-0"



6 TYPICAL BRACING DETAIL

SCALE: 1" = 1'-0"



7 TYPICAL BRACING DETAIL

SCALE: 1" = 1'-0"

NOTES:
1. FOR GENERAL STRUCTURAL NOTES SEE SHEET S001 AND S002.
2. LOAD FOR BRACING INDICATED ON ELEVATION IS SERVICE LOAD. MINIMUM LOAD FOR THE BRACING IS 10 KIPS SERVICE LOAD (TENSION - COMPRESSION) TYPICAL, UNO.

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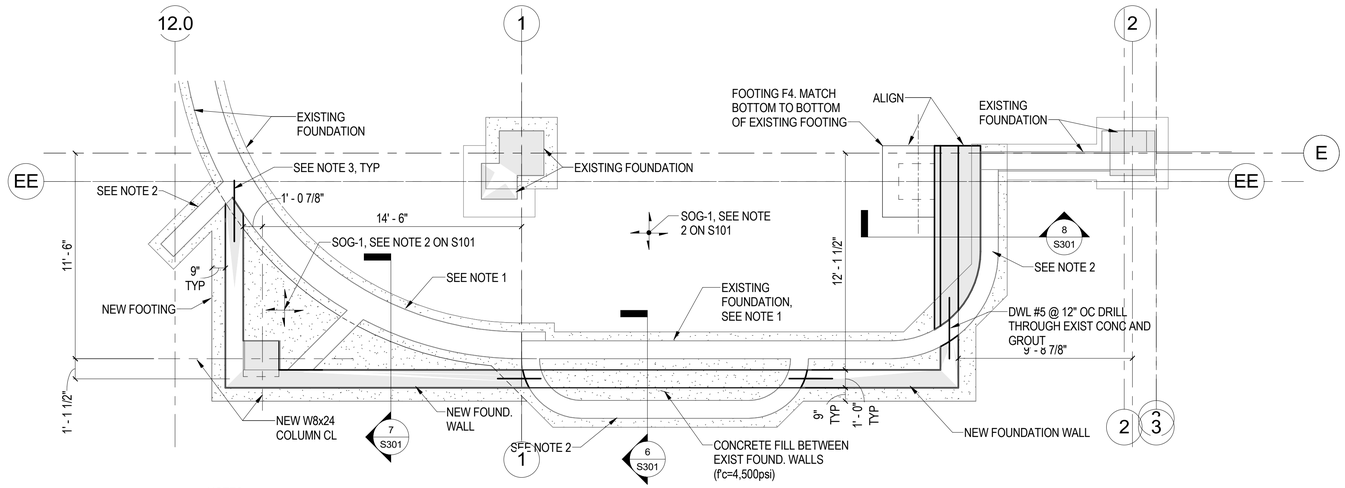
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

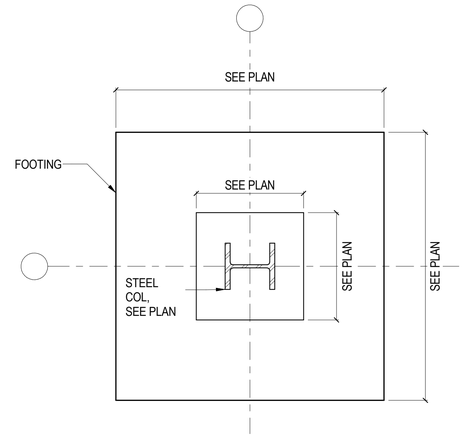
Title
TYPICAL BRACING DETAILS

Sheet
S201

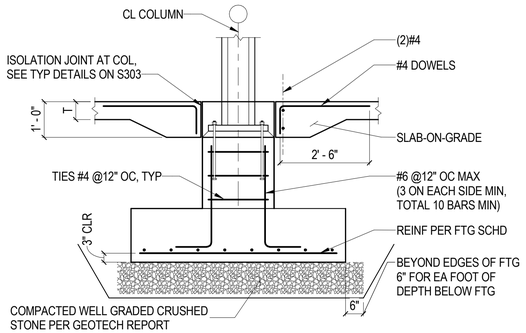


NOTES:
1. REMOVE EXISTING FOUNDATION WALL IN VICINITY OF THE NEW ENTRANCE AREA DOWN TO ELEVATION BELOW NEW SLAB ON GRADE.
2. REMOVE EXISTING FOUNDATION WALL OUTSIDE DOWN TO ELEVATION FINISH GRADE OR BELOW WALKWAY SLAB, SEE CIVIL DRAWINGS.
3. PROVIDE DOWELS #5 @12" OC AND 5" FROM TOP OF THE WALL WITH 6" MINIMUM EMBEDMENT INTO EXISTING FOUNDATION WALL WITH EPOXY ANCHOR SYSTEM, TYPICAL, UNO.

1 PARTIAL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



2 SPREAD FOOTING PLAN DETAIL
SCALE: 3/4" = 1'-0"



NOTE: WHERE SOIL AT INDICATED ELEVATION NOT CAPABLE OF SUPPORTING REQUIRED BEARING CAPACITY, CONTRACTOR SHALL EXCAVATE TO SUITABLE BEARING ELEVATION. UNSUITABLE SOIL SHALL BE REPLACED WITH APPROVED FILL OR LEAN CONCRETE.

3 SPREAD FOOTING REINF SECTION
SCALE: 1/2" = 1'-0"

4 WALL FOOTING REINF SECTION
SCALE: 1/2" = 1'-0"

5 FOUNDATION DETAIL
SCALE: 1" = 1'-0"

6 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

7 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

8 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

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3/12/2024 11:34:07 AM

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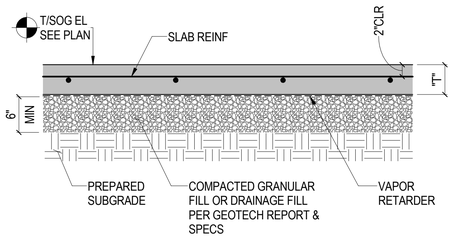
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

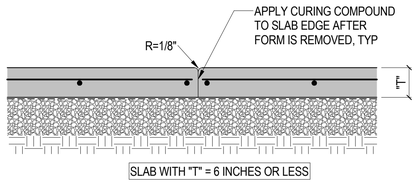
Title
FOUNDATION DETAILS

Sheet
S301



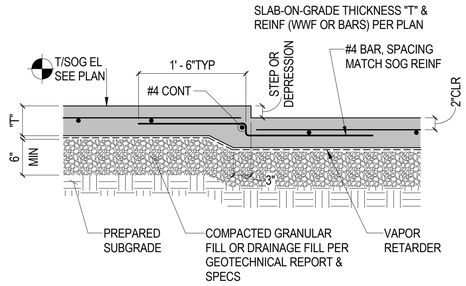
NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS ON SUBGRADE, GRANULAR FILL, VAPOR RETARDER & MIX DESIGN.
2. SLAB-ON-GRADE THICKNESS "T" AND REINFORCEMENT (WWF OR BARS) PER PLAN

1 SLAB ON GRADE REINFORCEMENT
SCALE: 1" = 1'-0"



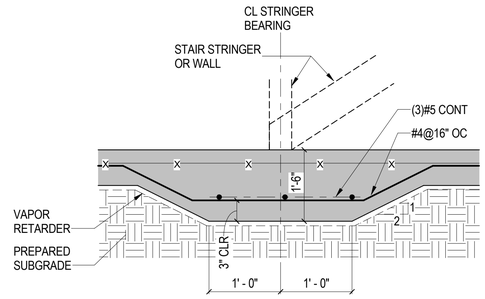
NOTE: WORK JOINT DETAILS WITH SLAB ON GRADE SECTION.

2 SLAB ON GRADE CONSTRUCTION JOINT
SCALE: 1" = 1'-0"

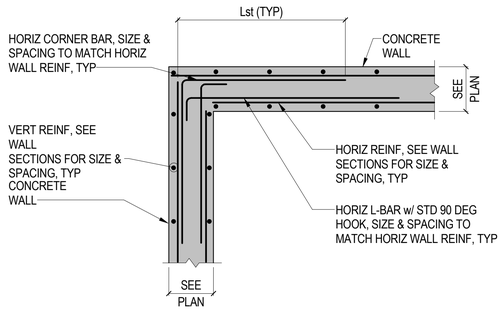


NOTES:
1. SIZE AND LOCATION OF DEPRESSION COORDINATE WITH ARCHITECTURAL DRAWINGS.
2. REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS ON SUBGRADE, GRANULAR FILL, VAPOR RETARDER & MIX DESIGN.

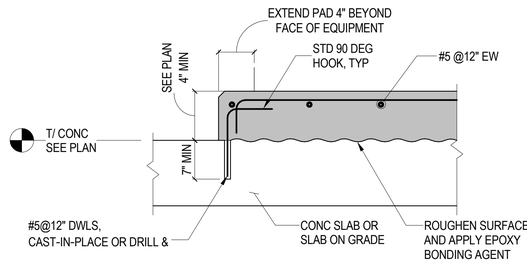
3 SLAB ON GRADE DEPRESSION
SCALE: 1" = 1'-0"



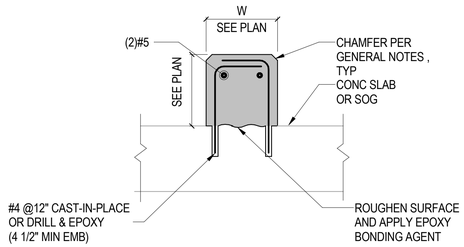
4 THICKENED SLAB ON GRADE AT STAIR STRINGER OR WALL BEARING
SCALE: 1" = 1'-0"



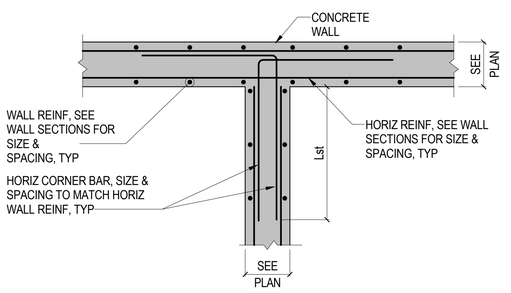
7 CONCRETE WALL CORNER REINF DETAIL
SCALE: 3/4" = 1'-0"



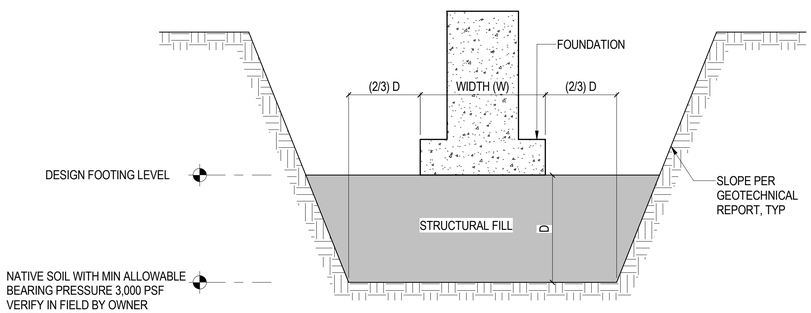
5 HOUSEKEEPING PAD REINF DETAIL
SCALE: 1" = 1'-0"



6 CONCRETE CURB REINFORCEMENT
SCALE: 1" = 1'-0"

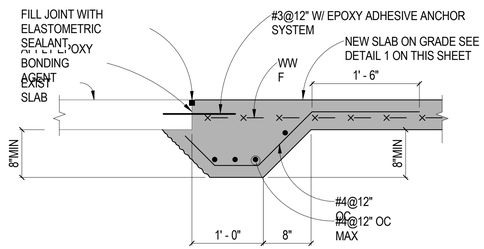


8 CONCRETE WALL REINF DETAILS AT WALL INTERSECTION
SCALE: 3/4" = 1'-0"



NOTES:
1. OVER-EXCAVATION CAN BE FILLED WITH CONCRETE (f'c=1,200 PSI) AS CONTRACTOR OPTION. MINIMUM WIDTH OF CONCRETE FILL EQUALS TO WIDTH OF FOOTING.
2. DEPTH OF OVER- EXCAVATION PER GEOTECHNICAL REPORT.

9 OVER-EXCAVATION/BACKFILL DETAIL
SCALE: 1/2" = 1'-0"



10 NEW-EXIST SLAB DETAIL
SCALE: 1" = 1'-0"

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Mark	Description	Date
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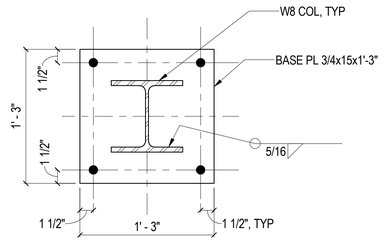
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

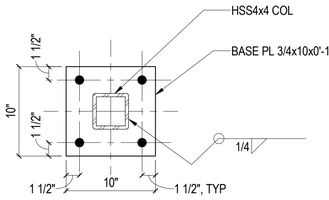
Title
FOUNDATION DETAILS

Sheet S302



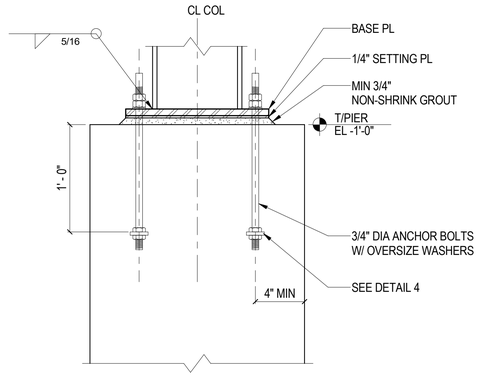
1 STEEL BASE PLATE W8 COLUMN

SCALE: 1 1/2" = 1'-0"



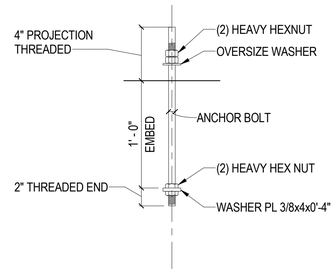
2 STEEL BASE PLATE HSS COLUMN

SCALE: 1 1/2" = 1'-0"



3 TYPICAL BASE PLATE SECTION DETAIL

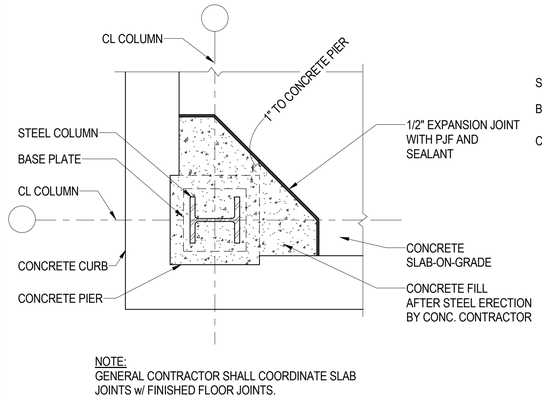
SCALE: 1 1/2" = 1'-0"



TYPE 1 - ASTM F1554 MAT'L GR. 55

4 ANCHOR BOLT DETAIL

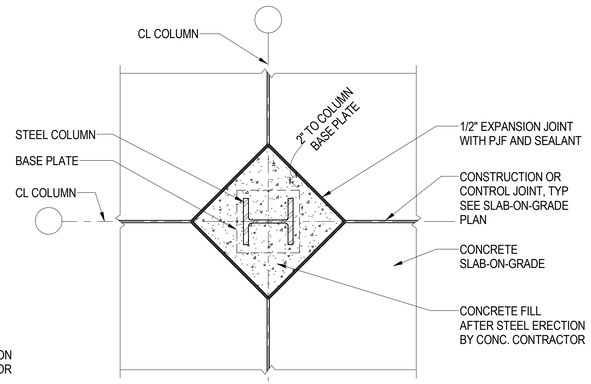
SCALE: 1 1/2" = 1'-0"



NOTE:
GENERAL CONTRACTOR SHALL COORDINATE SLAB JOINTS w/ FINISHED FLOOR JOINTS.

5 SLAB ON GRADE ISOLATION JOINT AT CORNER COLUMN

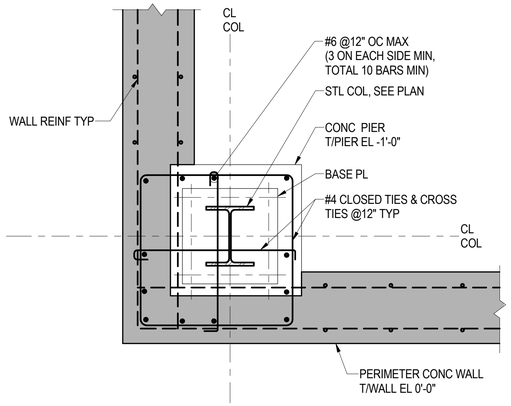
SCALE: 3/4" = 1'-0"



NOTE:
GENERAL CONTRACTOR SHALL COORDINATE SLAB JOINTS w/ FINISHED FLOOR JOINTS.

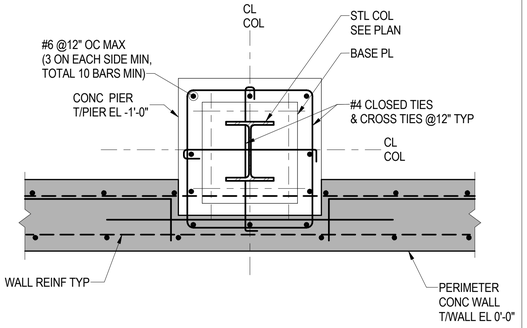
6 SLAB ON GRADE ISOLATION JOINT AT INTERIOR COLUMN

SCALE: 3/4" = 1'-0"



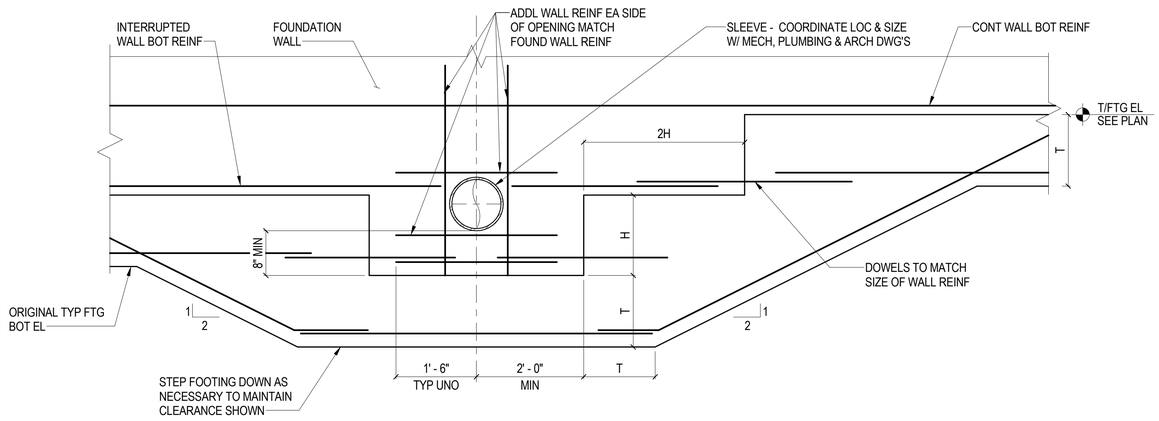
7 TYP CORNER PIER DETAIL

SCALE: 1" = 1'-0"



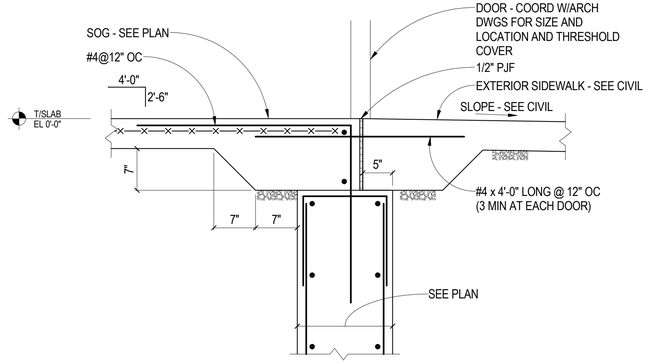
8 TYP PERIMETER PIER DETAIL

SCALE: 1" = 1'-0"



9 TYPICAL STEPPED FOOTING AT PENETRATION

SCALE: 3/4" = 1'-0"



10 TYPICAL SECTION AT DOOR OPNG

SCALE: 1" = 1'-0"

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Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For COnstruction	03/13/2024

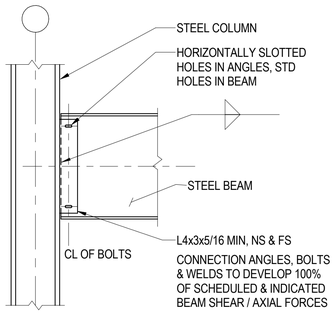
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

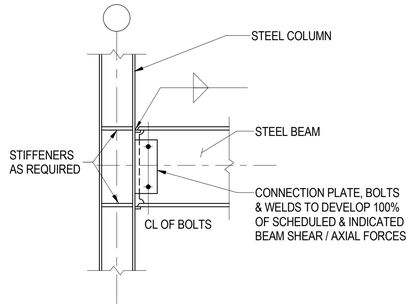
Title
FOUNDATION DETAILS

Sheet S303



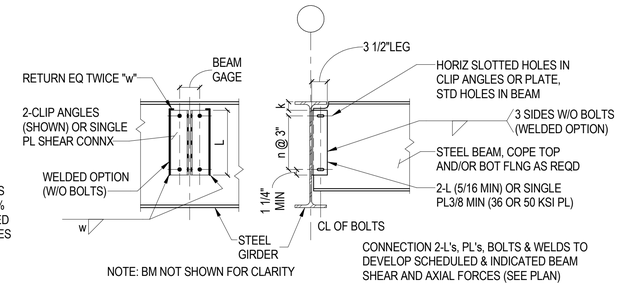
1 BEAM TO COL FLANGE SHEAR CONNECTION

SCALE: 3/4" = 1'-0"



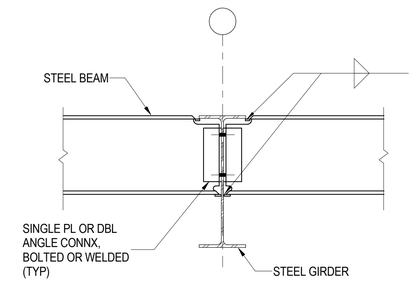
2 BEAM TO COL FLANGE MOMENT CONNECTION

SCALE: 3/4" = 1'-0"



3 BEAM TO GIRDER SHEAR CONNECTION

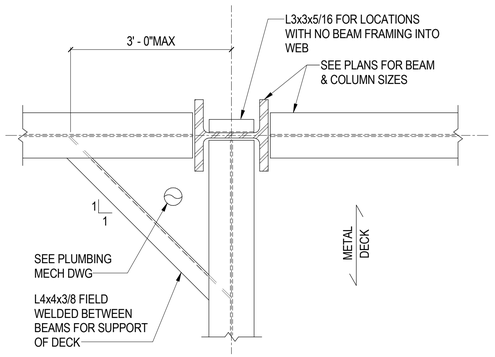
SCALE: 3/4" = 1'-0"



NOTE:
1. LOADS ARE INDICATED ON DRAWINGS AND GENERAL STRUCTURAL NOTES.

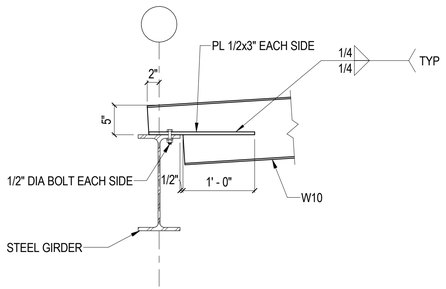
4 BEAM TO GIRDER MOMENT CONNECTION

SCALE: 3/4" = 1'-0"



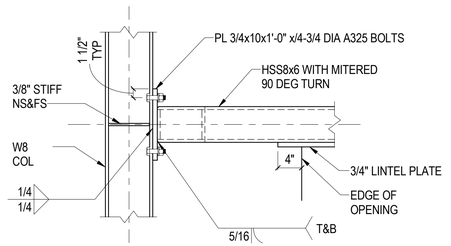
5 COLUMN - DETAIL

SCALE: 3/4" = 1'-0"



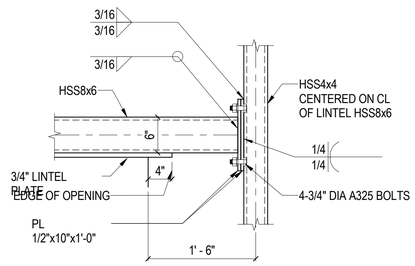
6 W10 BEAM BEARING DETAIL

SCALE: 1" = 1'-0"



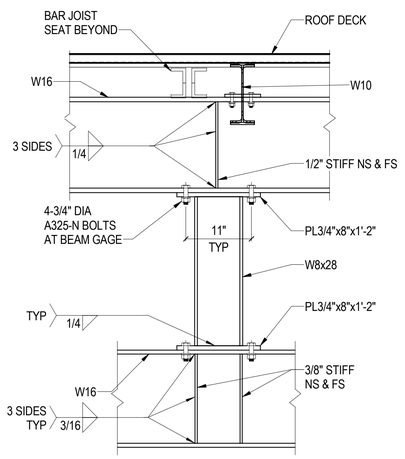
7 LINTEL HSS TO COL CONNECTION DETAIL

SCALE: 1" = 1'-0"



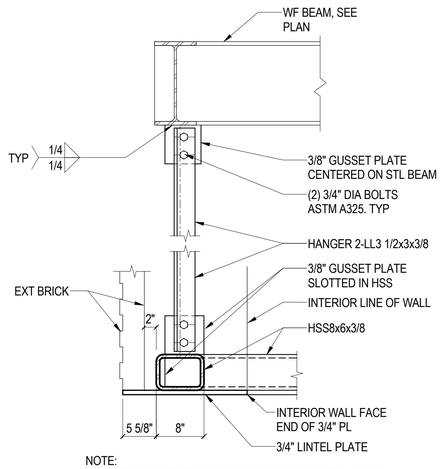
8 HSS TO HSS COL CONNECTION DETAIL

SCALE: 1" = 1'-0"



9 STUB COLUMN DETAIL

SCALE: 1" = 1'-0"



NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR LIGHT GAGE WALL.

10 HANGER DETAIL

SCALE: 1" = 1'-0"

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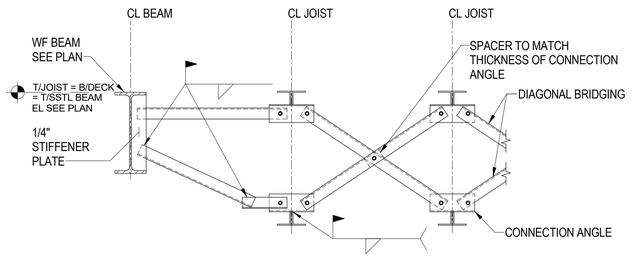
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
TYPICAL STEEL DETAILS

Sheet S401

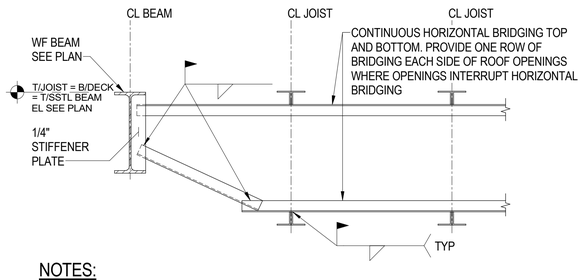


NOTES:

1. SEE PLAN FOR BRIDGING LOCATION.
2. DIAGONAL BRIDGING SHALL BE CONNECTED TO EACH JOIST AS IT IS ERECTED.
3. BRIDGING CONNECTIONS SHALL BE DESIGNED FOR UPLIFT LOADS. SEE NOTES ON S103.
4. BRIDGING MEMBERS SHALL HAVE A MINIMIM SLENDERNESS RATIO (KL/R) OF 300.

1 DIAGONAL BRIDGING - DETAIL

SCALE: 3/4" = 1'-0"

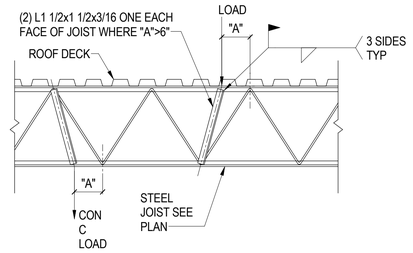


NOTES:

1. SEE PLAN FOR BRIDGING LOCATION.
2. HORIZONTAL BRIDGING SHALL BE COMPLETELY INSTALLED PRIOR TO LOADING ANY JOIST.
3. BRIDGING CONNECTIONS SHALL BE DESIGNED FOR UPLIFT LOADS. SEE STRUCTURAL GENERAL NOTES.
4. BRIDGING MEMBERS SHALL HAVE A MINIMIM SLENDERNESS RATIO (KL/R) OF 300.

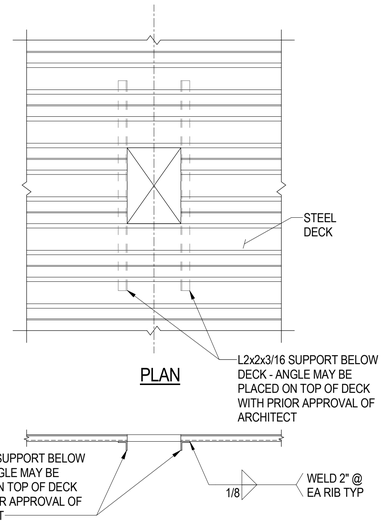
2 HORIZONTAL BRIDGING - DETAIL

SCALE: 3/4" = 1'-0"



3 JOIST LOAD STRUT - DETAIL

SCALE: 3/4" = 1'-0"

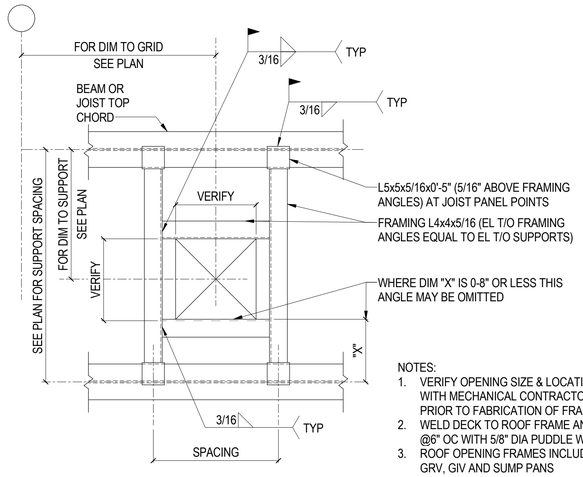


NOTES:

1. AN OPENING WHICH CUTS ONE DECK WEB (4" MAX DIMENSION PERPENDICULAR TO RIBS), MAY BE CUT IN DECK WITHOUT ANY SPECIAL REINFORCING.
2. AN OPENING WHICH CUTS TWO DECKS WEBS (8" MAX DIMENSION PERPENDICULAR TO RIBS), WILL REQUIRE ANGLE SUPPORT SHOWN ABOVE.
3. ANY OPENING WHICH CUTS MORE THAN TWO DECK WEBS, FRAME OPENING WITH TYPICAL ANGLE SUPPORT FRAME (SEE DETAILS)

4 METAL DECK OPENING REINFORCING DETAIL

SCALE: 3/4" = 1'-0"

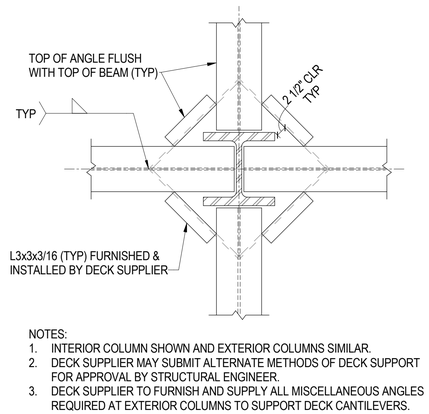


NOTES:

1. VERIFY OPENING SIZE & LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF FRAMES.
2. WELD DECK TO ROOF FRAME ANGLES @6" OC WITH 5/8" DIA PUDDLE WELD.
3. ROOF OPENING FRAMES INCLUDE PRV, GRV, GIV AND SUMP PANS

5 ROOF OPENING FRAME

SCALE: 3/4" = 1'-0"

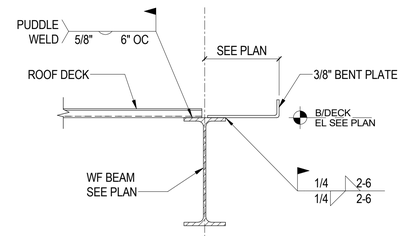


NOTES:

1. INTERIOR COLUMN SHOWN AND EXTERIOR COLUMNS SIMILAR.
2. DECK SUPPLIER MAY SUBMIT ALTERNATE METHODS OF DECK SUPPORT FOR APPROVAL BY STRUCTURAL ENGINEER.
3. DECK SUPPLIER TO FURNISH AND SUPPLY ALL MISCELLANEOUS ANGLES REQUIRED AT EXTERIOR COLUMNS TO SUPPORT DECK CANTILEVERS.

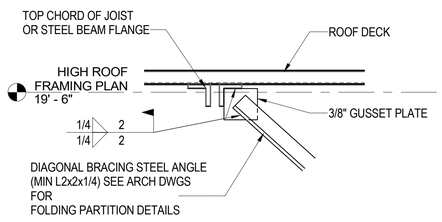
6 DECK SUPPORT

SCALE: 3/4" = 1'-0"



7 TYPICAL ROOF DECK EDGE - DETAIL

SCALE: 1" = 1'-0"

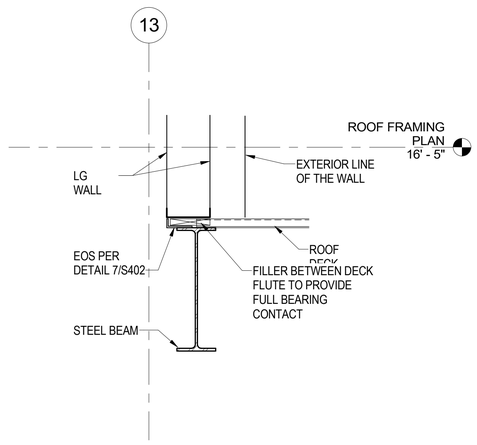


NOTES:

1. FOR LOCATION OF FOLDING PARTITION SEE AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
2. CONNECTION OF DIAGONAL BRACING STEEL ANGLE TO GUSSET PLATE TO BE WELDED OR BOLTED PER MANUFACTURER RECOMMENDATION.
3. CONNECTION OF DIAGONAL BRACING TO FOLDING PARTITION RAIL BY PARTITION MANUFACTURER.

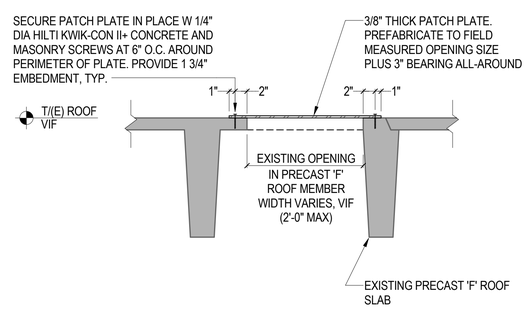
8 FOLDING PARTITION BRACING DETAIL

SCALE: 1 1/2" = 1'-0"



9 WALL BEARING AT LOW ROOF

SCALE: 1" = 1'-0"



10 EXISTING PRECAST CONCRETE 'F' PATCH DETAIL

SCALE: 1" = 1'-0"

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Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For COnstruction	03/13/2024

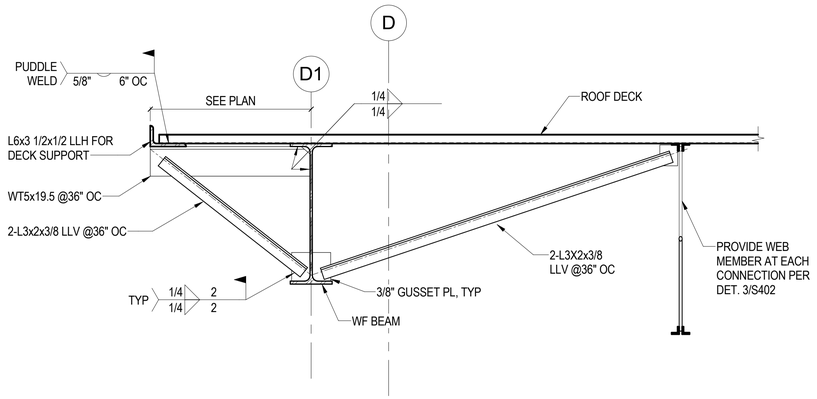
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

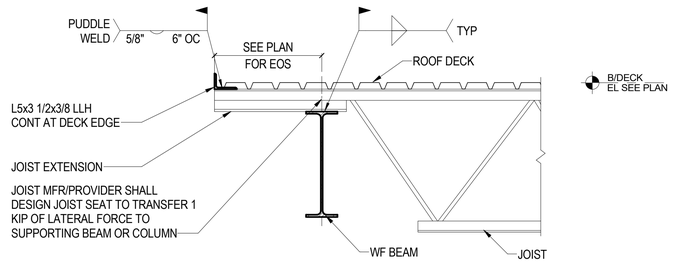
Title
ROOF & DECK DETAILS

Sheet
S402



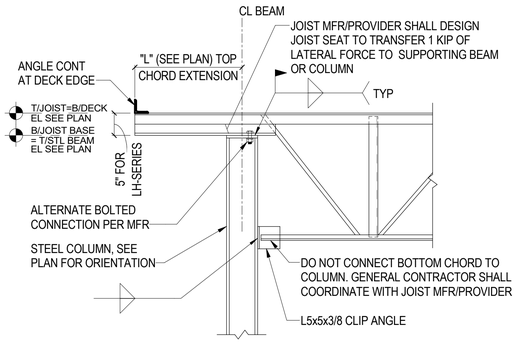
1 SECTION

SCALE: 1" = 1'-0"



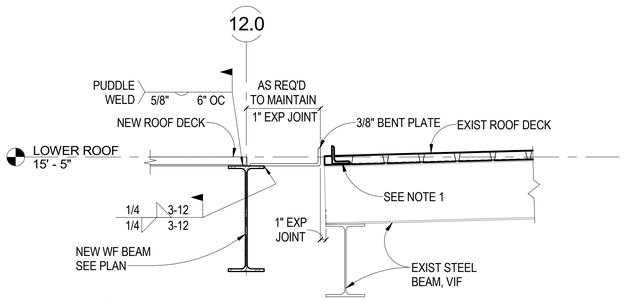
2 ROOF DECK JOIST/BEAM - DETAIL

SCALE: 3/4" = 1'-0"



3 JOIST TO COLUMN CONNECTION

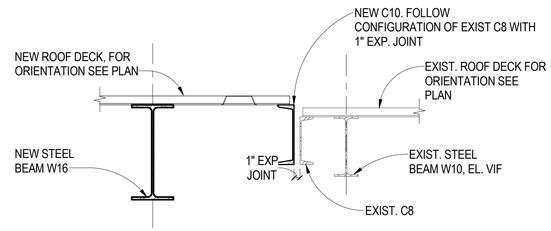
SCALE: 3/4" = 1'-0"



NOTE:
1. IN CASE OF EXISTING ANGLE NOT PRESENT AT END OF EXISTING METAL DECK, PROVIDE L3x3x3/8 CONTINIOUS ANGLE WELDED TO THE EACH EXISTING STEEL BEAM WITH 3/16 FILLET WELD.

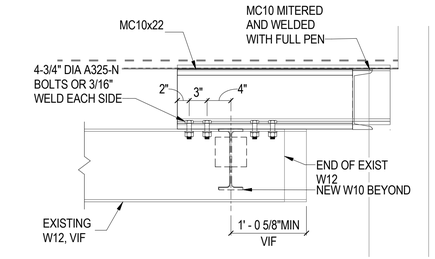
4 SECTION

SCALE: 1" = 1'-0"



5 EXPANSION JOINT DETAIL

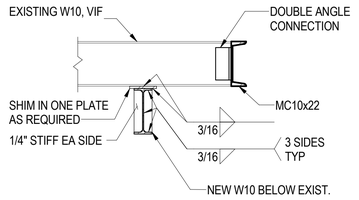
SCALE: 1" = 1'-0"



NOTE:
1. NEW FRAMING TOP OF STEEL ELEVATION AND SLOPE MATCH TO THE EXISTING FRAMING.
2. ROOF DECK NOT SHOWN FOR CLARITY.

6 CONNECTION DETAIL

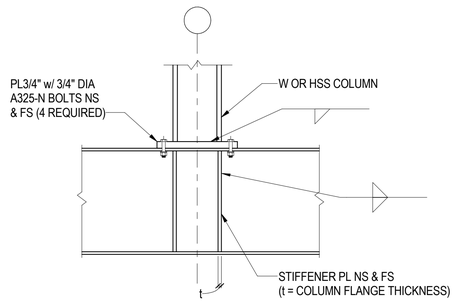
SCALE: 1" = 1'-0"



NOTE:
1. NEW FRAMING TOP OF STEEL ELEVATION AND SLOPE MATCH TO THE EXISTING FRAMING.

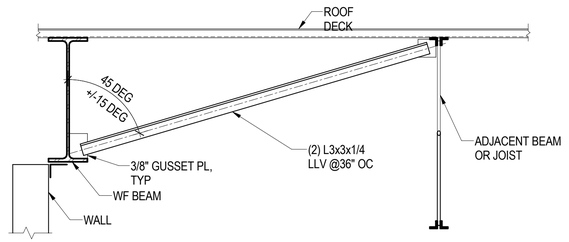
7 MC TO EXISTING BEAM CONNECTION

SCALE: 3/4" = 1'-0"



8 COLUMN OVER STEEL BEAM DETAIL

SCALE: 3/4" = 1'-0"



9 BEAM BOTTOM FLANGE BRACING DETAIL

SCALE: 1" = 1'-0"

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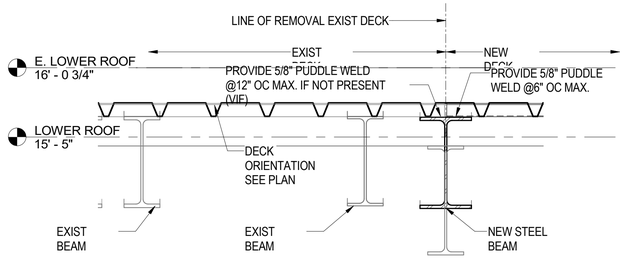
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

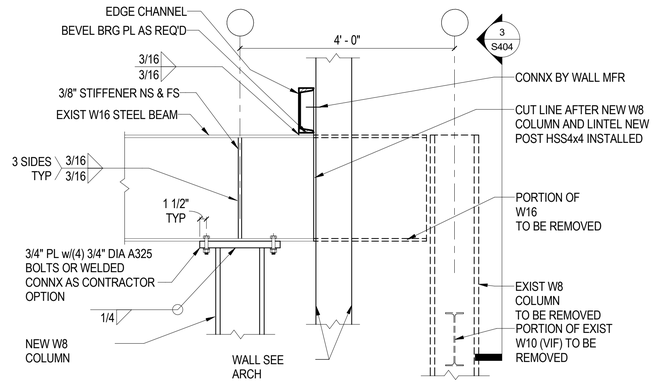
Title
ROOF DETAILS

Sheet S403



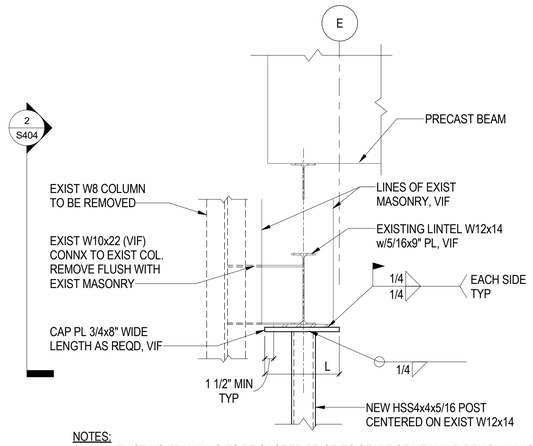
1 NEW-EXIST DECK DETAIL

SCALE: 1 1/2" = 1'-0"



2 EXIST BEAM ON COLUMN DETAIL

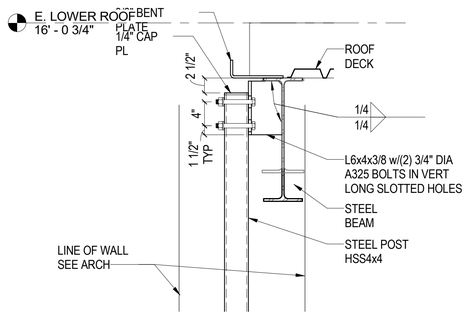
SCALE: 3/4" = 1'-0"



NOTES:
1. ALL EXISTING FRAMINNG TO BE SHORED PRIOR TO START OF NEW AND REMOVAL WORK.
2. NEW W8 COLUMN AND LINTEL'S NEW POST HSS4x4x5/16 MUST BE INSTALLED PRIOR TO CUTTING OF THE EXISTING STEEL.
3. PROVIDE FULL BEARING CONTACT BETWEEN NEW COLUMN CAP PLATE AND EXISTING BOTTOM PLATE OF THE LINTEL.

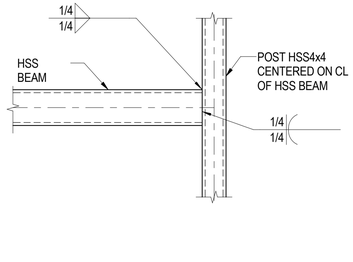
3 EXIST LINTEL SUPPOPRT DETAIL

SCALE: 1" = 1'-0"



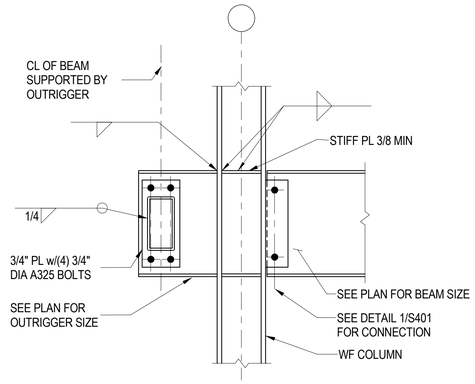
4 POST TOP DETAIL

SCALE: 1" = 1'-0"



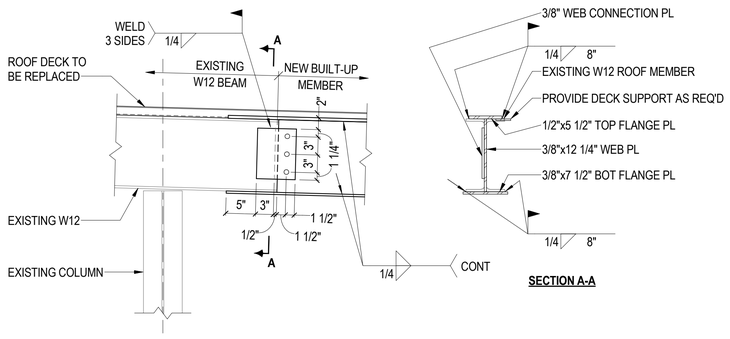
5 HSS TO HSS COL CONNECTION DETAIL

SCALE: 1" = 1'-0"



6 BEAM OUTRIGGER CONNECTION

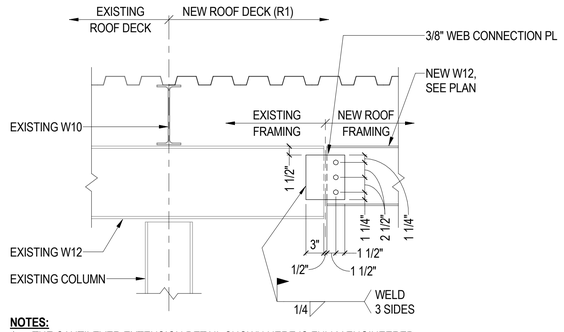
SCALE: 3/4" = 1'-0"



NOTES:
1. THE CANTILEVER EXTENSION DETAIL SHOWN HERE IS FULLY ENGINEERED.
2. ALL CONNECTION MATERIAL SHALL CONFORM TO ASTM A36.
3. THE NEW BUILT-UP EXTNSION SHALL BE CONSTRUCTED FROM 3/8" AND 1/2" CONFORMING TO ASTM A572 GR 50.
4. ALL BOLTS ARE 3/4" DIA A325 -N BOLTS IN STD-HSLS HOLES.
5. ALL WELDS SHALL BE E70XX.

7 EXTENSION OF EXISTING W12 CANTILEVER DETAIL

SCALE: 1" = 1'-0"



NOTES:
1. THE CANTILEVER EXTENSION DETAIL SHOWN HERE IS FULLY ENGINEERED.
2. ALL CONNECTION MATERIAL SHALL CONFORM TO ASTM A36.
3. ALL BOLTS ARE 3/4" DIA A325 -N BOLTS IN STD-HSLS HOLES.
4. ALL WELDS SHALL BE E70XX.

8 NEW TO EXISTING CONNECTION DETAIL

SCALE: 1" = 1'-0"

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PUBLIC BUILDING COMMISSION

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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
SECTIONS AND DETAILS

Sheet S404

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

KEYNOTES

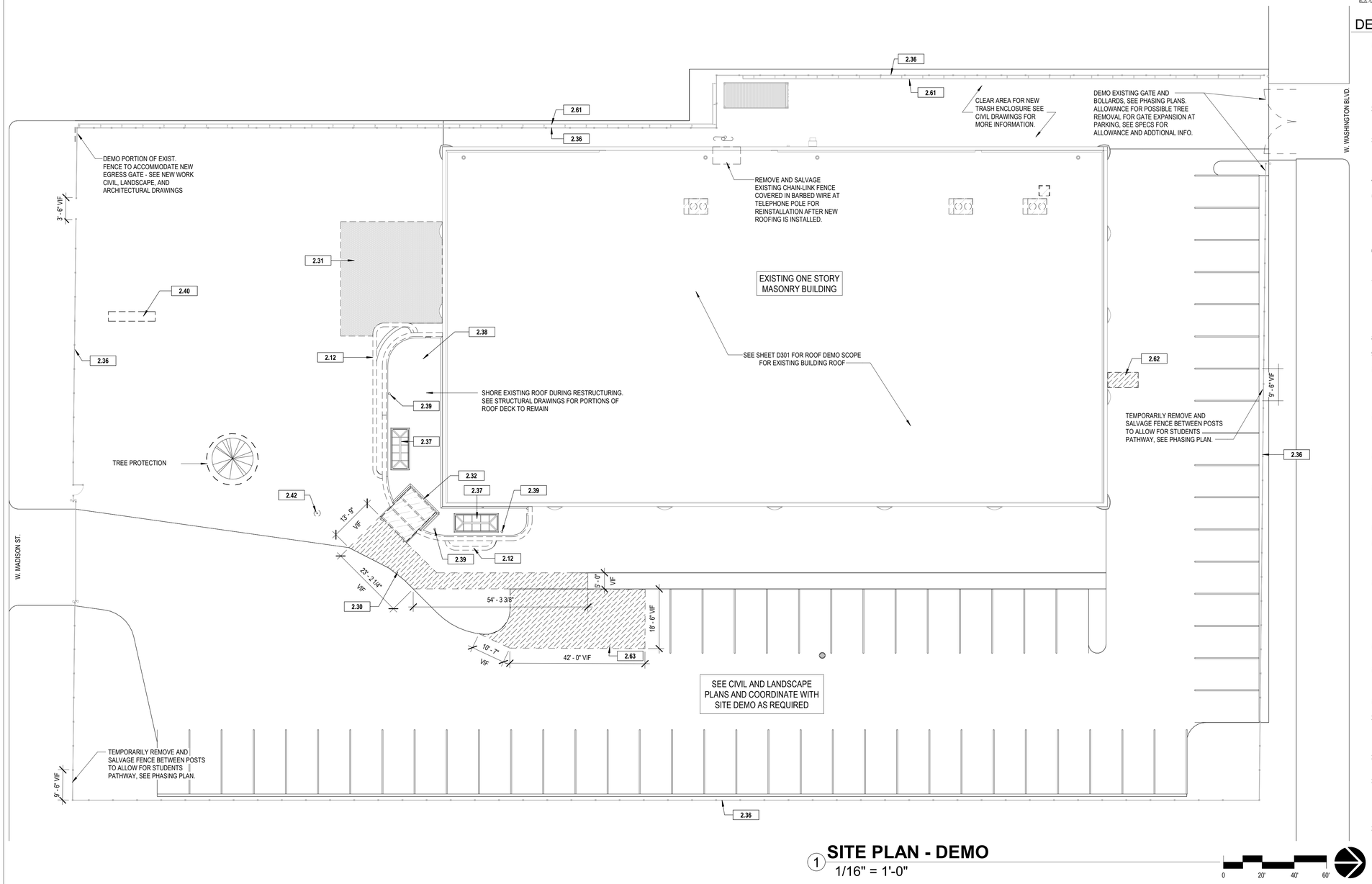
2.32 REMOVE EXISTING ENTRANCE CANOPY , SEE D103 FOR ADDITIONAL DEMOLITION NOTES FOR THE LOBBY AREA

2.37 PROTECT EXISTING SKYLIGHTS FOR CONSTRUCTION DURATION.

2.42 DEMOLISH EXISTING CONCRETE FLAGPOLE BASE AND METAL FLAGPOLE BASE CONNECTION. SALVAGE METAL FLAGPOLE AND FLAG FOR RE-INSTALLATION. ITEMS TO BE STORED ONSITE.

DEMOLITION PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING DOOR AND FRAME TO BE DEMOLISHED
- CONCRETE SLAB / PARKING / PAVING TO BE REMOVED
- INDICATES EXTENT OF DEMOLITION WORK REQUIRED BY KEYNOTE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE DEMOLISHED
- PORTION OF EXISTING FLOOR TO BE DEMOLISHED



1 **SITE PLAN - DEMO**
1/16" = 1'-0"

0 20' 40' 60'

DEMOLITION SITE PLAN NOTES

1. BEFORE ANY EXCAVATION ON THE SITE, CALL D.I.G.G.E.R.@ 1-312-744-7000 TO LOCATE ANY EXISTING UTILITIES ON THE SITE. BECOME FAMILIAR Wini THE LOCATIONS OF ALL BURIED UTILITIES IN THE AREAS OF WORK BEFORE STARTING OPERATIONS. REPAIR OR REPLACE ANY BURIED CONDUITCONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BETWEEN THE DEMOLITION DRAWINGS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
3. THE OWNER HAS NOT IDENTIFIED HAZARDOUS MATERIALS IN THE EXISTING SPACES. CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY IF HAZARDOUS MATERIALS ARE IDENTIFIED. DO NOT PROCEED WITH THE WORK UNTIL THE HAZARDOUS MATERIALS HAVE BEEN REMOVED.
4. REFER TO CIVIL AND MEP DEMOLITION AND NEW WORK DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE PROTECTION AGAINST MOISTURE, IMPACT, AND OTHER TYPES OF DAMAGE AT ALL OPENINGS CREATED BY SELECTIVE DEMOLITION. PROTECT EXISTING CONSTRUCTION FROM DAMAGE DURING THE DEMOLITION AND NEW CONSTRUCTION WORK. REPAIR OR REPLACE AS REQUIRED EXISTING CONSTRUCTION DAMAGED AT NO COST TO THE OWNER.
6. FOLLOW ALL LOCAL AND STATE STANDARDS, INCLUDING IDOT STANDARDS, FOR WORK WITHIN THE RIGHT-OF WAY. SUBMIT PLAN OF CONSTRUCTION STAGING FOR APPROVAL PRIOR TO START OF WORK.
7. INSTALL AND MAINTING 6' HIGH CHAINLINK CONSTRUCTION FENCING AS INDICATED TO PROTECT THE WORK, FOR PUBLIC SAFETY AND PROVIDE SECURITY. ADJUST FENCING TO ACCOMMODATE PROGRESS OF CONSTRUCTION. MAINTAIN FENCING IN PLACE UNTIL SUBSTANTIAL PROJECT COMPLETION OR AS DIRECTED BY THE OWNER. INSTALL GATES FOR CONSTRUCTION ACCESS AS REQUIRED.
8. MODIFY AND RESTORE SITE CONDITIONS TO GAIN ACCESS INTO THE SITE.
9. REVIEW CIVIL DRAWINGS FOR STRUCTURES AND UTILITIES THAT ARE TO BE RELOCATED.
10. INSTALL TREE PROTECTION FENCING PRIOR TO SITE WORK AND MAINTAIN THROUGHOUT DURATION OF CONSTRUCTION. NO STORAGE OF MATERIALS, VEHICULAR ACCESS OR ANY OTHER CONSTRUCTION ACTIVITIES PERMITTED WITHIN THE TREE PROTECTION ZONE. SEE LANDSCAPING DRAWINGS AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
11. SITE IS TO BE OCCUPIED FOR DURATION OF CONSTRUCTION, ACCESS TO THE EXISTING WEST SIDE LEARNING CENTER MUST BE MAINTAINED. SEE CONSTRUCTION PHASING RECOMMENDATION ON SHEET A010 ARCHITECTURAL SITE PLAN – NEWWORK/PHASING PLAN.
12. MAINTAIN EXISTING GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PROTECT EXISTING TREES TO REMAIN AGAINST ANY DISTURBANCE INCLUDING UNNECECSSARY CUTTING, BREAKING OR EXCAVATION.
13. "REMOVE" MEANS REMOVAL OF ITEMS ABOVE AND REMOVAL OF ALL ELEMENTS BELOW GRADE INCLUDING, BUT NOT LIMITED TO FOOTINGS, WIRING, GRANULAR BASE, CATCH BASINS, AND PIPING THAT ARE IMMIDIATELY ADJACENT TO THE ITEM BEING REMOVED.
14. VERIFY REMOVALS FOR COMPLETION OF THE WORK PRIOR TO SUBMITTING THE BID FOR THE WORK ON THIS PROJECT.
15. REMOVE ALL EXISTING TREE AND SHRUB STUMPS AND ROOTS THAT IMPACT THE WORK. GRIND OUT STUMPS TO A MINIMUM OF 18". BRING TO FINISH GRADE PRIOR TO COMPLETION OF WORK. SEE LANDSCAPING DRAWINGS AND SPECIFICATION FOR ADDITIONAL INFORMATION.
16. EXCAVATE ALL AREAS TO RECEIVE PAVEMENT/FOUNDATIONS. CUT OR FILL AND COMPACT THE EXCAVATION AREA TO THE PROPOSED GRADE AND CROSS SECTION PRIOR TO THE INSTALLATION IF UNDERGROUND IMPROVMENTS. FINE GRADE (+/1"T) AND COMPACT THE SUBGRADE PRIOR TO THE PLACEMENT OF THE SUBBASE OR BASE MATERIAL. STRIP UNSUITABLE MATERIALS PRIOR TO PLACEMENT OF APPROVED CLEAN FILL.
17. REMOVE LAWN AND PLANTING BEDS AND EXCAVATE EARTH TO COORDINATE WITH GRADING, EARTHWORK AND SITE IMPROVEMENTS.
18. REFER TO THE PROJECT MANUAL, SPECIFICATIONS DIVISION 1, AND GENERAL REQUIREMENTS, FOR RELATED PROJECT, DEMOLITION, CONSTRUCTION AND PROTECTION REQUIREMENTS.
19. PLANS ARE DIAGRAMMATIC AND PROVIDED TO SHOW INTENT ONLY, UNLESS SPECIFICALLY NOTED. VI.F.
20. SALVAGED MATERIALS INDICATED ARE PROPERTY OF THE OWNER, TEMPORARILY STORE MATERIALS ON THE SITE AS DIRECTED BY THE OWNER. PROVIDE ALL NECESSARY PROTECTION AGAINST MOISTURE, IMPACT, AND ANY OTHER TYPE OF POTENTIAL DAMAGE.
21. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, WORK ORDERS REQUIRED AND SHALL NOTIFY ALL UTILITIES HAVING SERVICE CONNECTIONS WITHIN THE SITE.
22. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS DAILY. DEMOLITION WORK SHALL REMAIN SAFE AND CLEAN FOR THE BUILDING'S OCCUPANTS AND CONSTRUCTION WORKERS. OCCUPIED AREAS ADJACENT TO THE PROJECT WORK AREAS SHALL BE KEPT CLEAN AT ALL TIMES DURING THE WORK.
23. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ANY AND ALL ASPECTS OF THE PARKING LOT DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.

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Project No.: BED 022137 / PBC 03720

Title
SITE DEMO PLAN

Sheet D010

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
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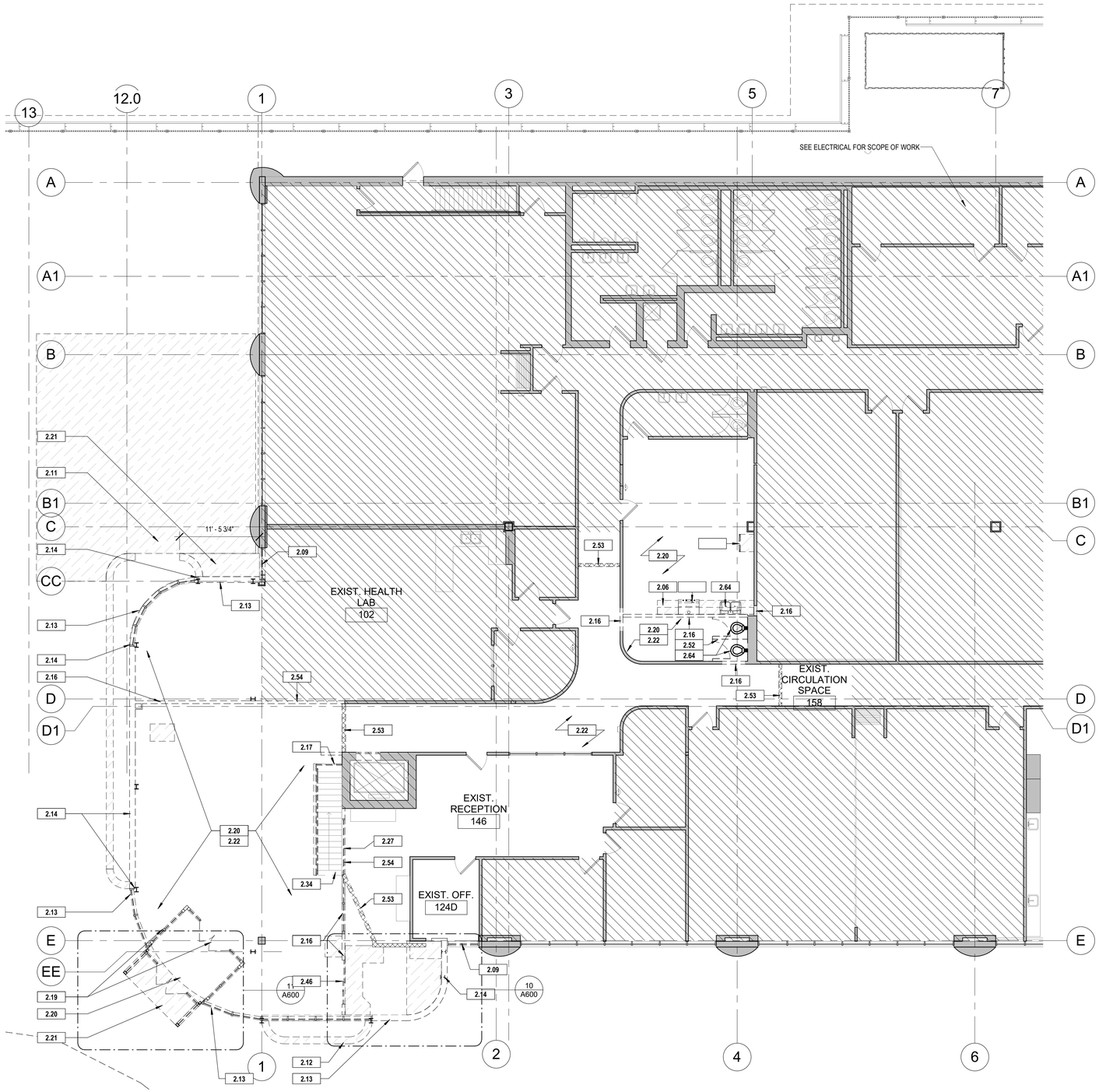
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

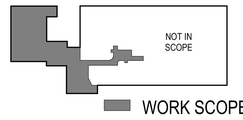


LOWER LEVEL FLOOR PLAN - DEMO

2 1/8" = 1'-0"

MAIN LEVEL FLOOR PLAN - DEMO - SOUTH

1 1/8" = 1'-0"



KEY PLAN

DEMOLITION PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING DOOR AND FRAME TO BE DEMOLISHED
- CONCRETE SLAB / PARKING / PAVING TO BE REMOVED
- INDICATES EXTENT OF DEMOLITION WORK REQUIRED BY KEYNOTE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE DEMOLISHED
- PORTION OF EXISTING FLOOR TO BE DEMOLISHED

DEMOLITION NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BETWEEN THE DEMOLITION DRAWINGS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
3. THE OWNER HAS NOT IDENTIFIED HAZARDOUS MATERIALS IN THE EXISTING SPACES. CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY IF HAZARDOUS MATERIALS ARE IDENTIFIED. DO NOT PROCEED WITH THE WORK UNTIL THE HAZARDOUS MATERIALS HAVE BEEN REMOVED.
4. REFER TO MEP DEMOLITION AND NEW WORK DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE PROTECTION AGAINST MOISTURE, IMPACT, AND OTHER TYPES OF DAMAGE AT ALL OPENINGS CREATED BY SELECTIVE DEMOLITION. PROTECT EXISTING CONSTRUCTION FROM DAMAGE DURING THE DEMOLITION AND NEW CONSTRUCTION WORK. REPAIR OR REPLACE AS REQUIRED EXISTING CONSTRUCTION DAMAGED AT NO COST TO THE OWNER.
6. ALL PENETRATIONS OF EXISTING PARTITIONS SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE SEALED TIGHT TO THE WALL PENETRATIONS.
7. EXISTING FLOOR PENETRATIONS, WHERE PIPING, DUCTWORK, CONDUIT OR OTHER ITEMS HAVE BEEN REMOVED DURING REMOVAL ARE TO BE FILLED WITH CONCRETE TO MATCH THE EXISTING SURROUNDING FLOOR AND REQUIRED FIRE RATINGS.
8. CONTRACTOR TO PROVIDE ALL REQUIRED OPENINGS IN EXISTING WALLS AND FLOORS FOR PENETRATION OF MECHANICAL, PLUMBING, FIRE PROTECTION, COMMUNICATIONS, AND ALL OTHER REQUIRED BUILDINGS SYSTEMS. MAINTAIN EXISTING SMOKE AND FIRE RATINGS AS REQUIRED.
9. PROTECT EXISTING INTERIOR WALLS DURING REMOVAL AND CONSTRUCTION. PROVIDE TEMPORARY PROTECTION FROM DUST, NOISE, DAMAGE, ETC. AND CONSTRUCTION BARRIERS AND OTHER SITE PROTECTION REQUIREMENTS CONSISTENT WITH THE SPECIFICATIONS SECTION, AND DIVISION 1, GENERAL REQUIREMENTS.
10. REFER TO THE PROJECT MANUAL, SPECIFICATIONS DIVISION 1, AND GENERAL REQUIREMENTS, FOR RELATED PROJECT, DEMOLITION, CONSTRUCTION AND PROTECTION REQUIREMENTS.
11. PLANS ARE DIAGRAMMATIC AND PROVIDED TO SHOW INTENT ONLY, UNLESS SPECIFICALLY NOTED. VI.F.
12. SALVAGED MATERIALS INDICATED ARE PROPERTY OF THE OWNER, TEMPORARILY STORE MATERIALS ON THE SITE AS DIRECTED BY THE OWNER. PROVIDE ALL NECESSARY PROTECTION AGAINST MOISTURE, IMPACT, AND ANY OTHER TYPE OF POTENTIAL DAMAGE.
13. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, WORK ORDERS REQUIRED AND SHALL NOTIFY ALL UTILITIES HAVING SERVICE CONNECTIONS WITHIN THE SITE.
14. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS DAILY. DEMOLITION WORK SHALL REMAIN SAFE AND CLEAN FOR THE BUILDING'S OCCUPANTS AND CONSTRUCTION WORKERS. OCCUPIED AREAS ADJACENT TO THE PROJECT WORK AREAS SHALL BE KEPT CLEAN AT ALL TIMES DURING THE WORK.
15. CEILINGS IN ROOMS WHERE NEW PARTITIONS ARE BEING BUILT WILL NEED TO BE SELECTIVELY DEMOLISHED TO A CERTAIN POINT IN THE ROOM IN ORDER TO CONSTRUCT THE RATED PARTITION TO EXTEND TO THE DECK. FLOOR FINISHES WILL ALSO BE AFFECTED.

KEYNOTES

2.06 EXISTING CABINETRY IS TO BE REMOVED, PREPARE WALL FOR NEW WORK.
2.07 EXISTING DOORS AND FRAMES TO BE REMOVED
2.09 DEMOLISH EXISTING WINDOW AND FRAME. EXTERIOR SURROUNDING WALL TO REMAIN.
2.11 REMOVE PATIO.
2.12 DEMOLISH EXISTING PLANTER AND FOOTINGS TO WHERE INDICATED ON STRUCTURAL DRAWINGS 6,7,8/S301.
2.13 DEMOLISH EXISTING EXTERIOR WALL DOWN TO TOP OF FOUNDATION. SHORE EXISTING ROOF.
2.14 PROTECT EXISTING STRUCTURE AND TEMPORARILY SHORE EXISTING ROOF.
2.16 DEMOLISH EXISTING PARTITION DOWN TO EXISTING FLOOR SLAB.
2.17 DEMOLISH EXISTING GUARDRAIL.
2.19 DEMOLISH EXISTING VESTIBULE.
2.20 DEMOLISH EXISTING FLOOR FINISH DOWN TO EXISTING FLOOR SLAB.
2.21 DEMOLISH EXISTING SLAB ON GRADE.
2.22 REMOVE ALL CEILING FINISHES.
2.27 DEMOLISH EXISTING HOLLOW METAL FRAME & GLASS
2.34 PROTECT STAIR FINISHES
2.46 DEMOLISH EXISTING SLIDING DOOR
2.52 DEMO EXISTING TOILET PARTITIONS.
2.53 CUT AND PATCH FINISH FLOOR AND CEILING AS REQ'D FOR INSTALLATION OF A NEW WALL. PATCH ADJACENT WALLS AS REQ'D. SEE NEW WORK PLAN.
2.54 PATCH ADJACENT FLOOR AND CEILING FINISHES TO MATCH EXISTING AT DEMOLISHED WALLS, WHERE EXISTING FINISHES REMAIN.
2.60 DEMOLISH EXISTING HANDRAILS AT STAIR IN LOBBY.
2.64 DEMOLISH EXISTING PLUMBING FIXTURES, SEE PLUMBING DRAWINGS.

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WSLC ADDITION & RENOVATIONS

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Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
UPPER LEVEL FLOOR PLAN - DEMO - SOUTH

Sheet
D103

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

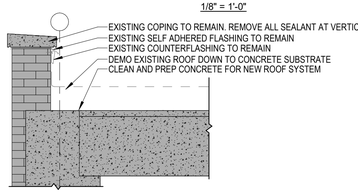
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



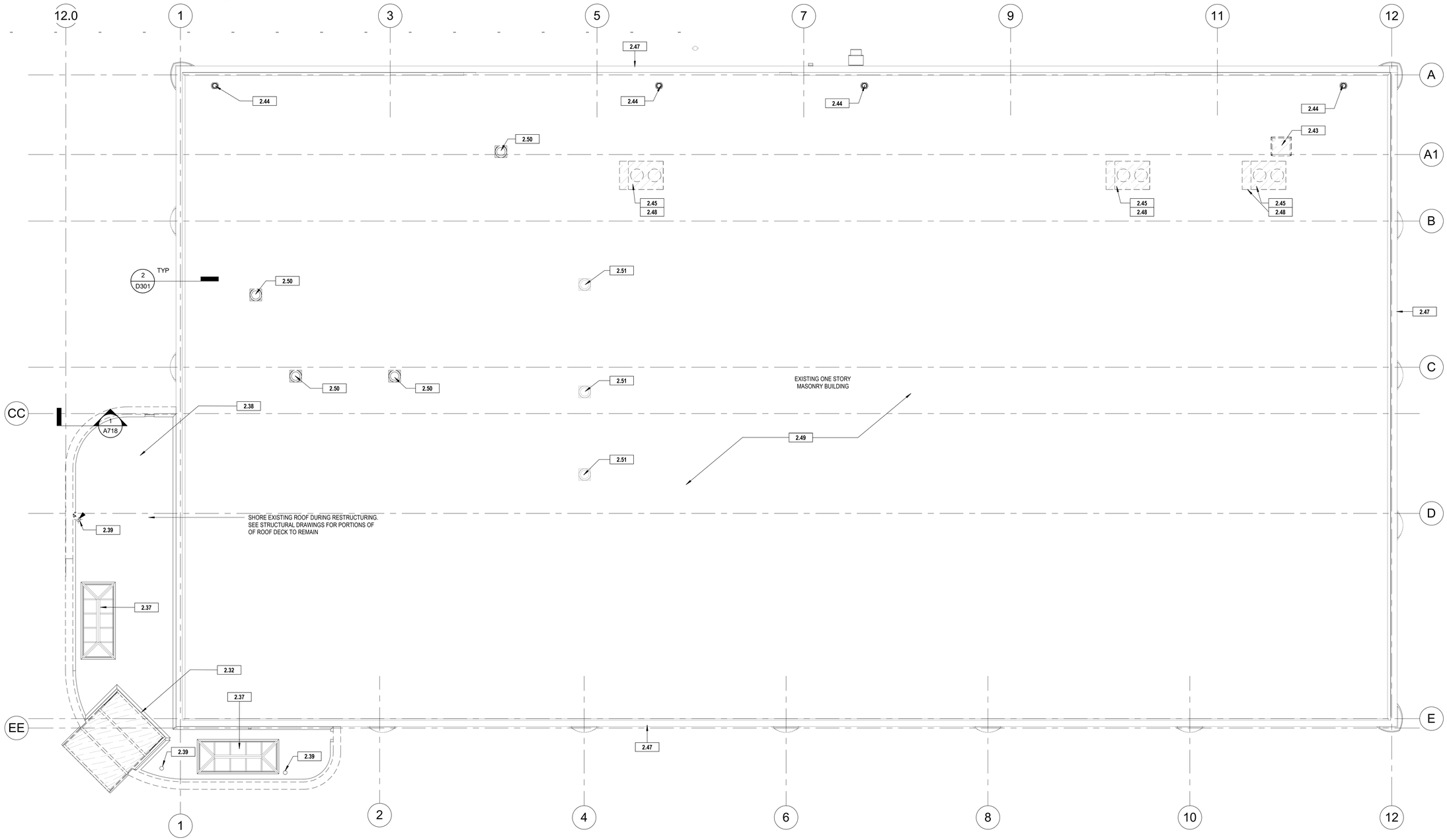
2 ROOF DEMO DETAIL, TYP.
1/2" = 1'-0"

ROOF DEMOLITION NOTES

1. REMOVE ALL SEALANT FROM THE COPING AND MAINTAIN THE EXISTING SELF ADHEARED FLASHING AND COUNTER FLASHING BELOW EXISTING COPING.
2. DEMOLISH EXISTING ROOF SYSTEM. SEE 2/D301.

KEYNOTES

2.32	REMOVE EXISTING ENTRANCE CANOPY , SEE D103 FOR ADDITIONAL DEMOLITION NOTES FOR THE LOBBY AREA
2.37	PROTECT EXISTING SKYLIGHTS FOR CONSTRUCTION DURATION.
2.43	DEMOLISH EXISTING ACCESS HATCH ONLY.
2.44	DEMOLISH EXISTING ROOF DRAIN. PREP FOR NEW ROOF DRAIN.
2.45	DEMOLISH EXISTING CONDENSER. SEE ELECTRICAL DEMO DRAWINGS.
2.47	EXISTING COUNTERFLASHING AND STONE COPING TO REMAIN, PROTECT IN PLACE
2.48	DISASSEMBLE EXISTING MECHANICAL CURBS, SEE MECHANICAL DEMOLITION DRAWINGS.



1 ROOF - DEMO
1/8" = 1'-0"

BIM 360://Malcom X West Side Learning Center Addition and Renovation/022137_MXC WSLC COMM RM AND EXISTING RENOVATION_ARCH21.rvt
3/13/2024 9:58:24 AM

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West Side Learning Center Addition and Renovations

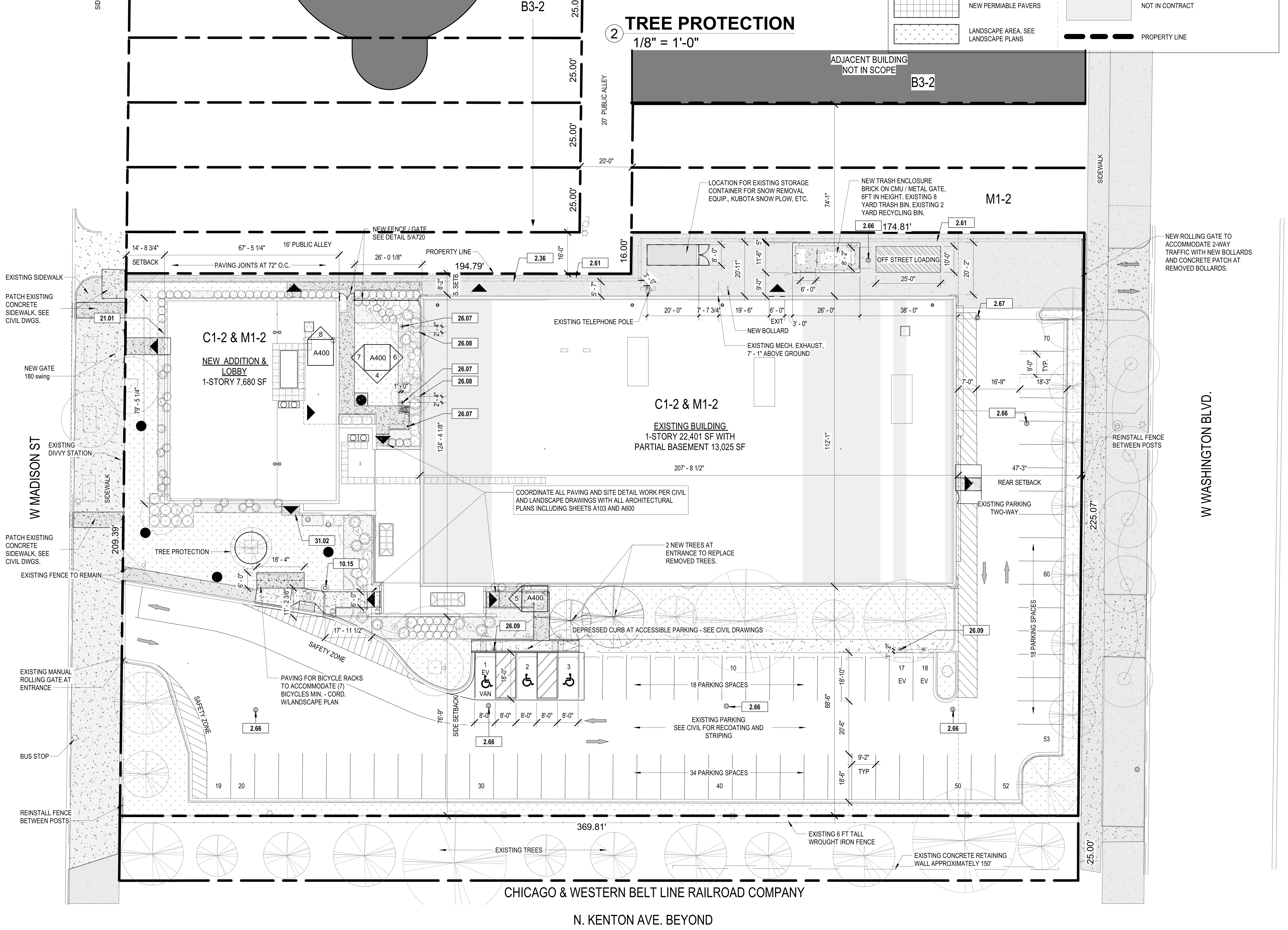
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

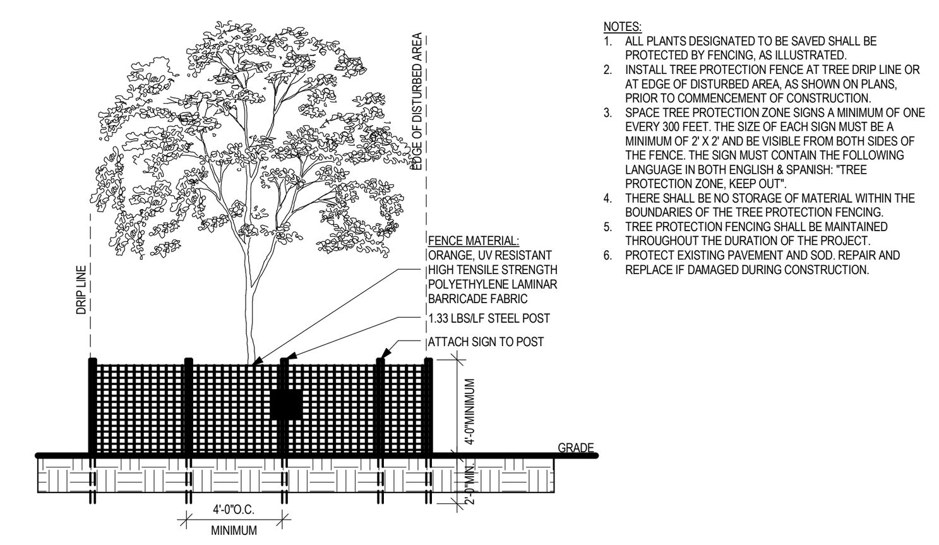
Title
ROOF PLAN - DEMO

Sheet D301

1/16" = 1'-0"   1/8" = 1'-0"   1/4" = 1'-0"   1/2" = 1'-0"   1" = 1'-0"   1-1/2" = 1'-0"   3" = 1'-0"



1 SITE PLAN - NEW WORK
1" = 20'-0"

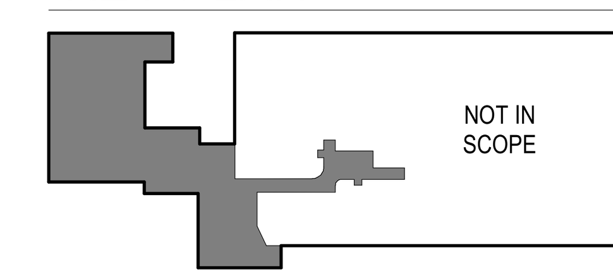


2 TREE PROTECTION
1/8" = 1'-0"

SITE PLAN LEGEND

NEW CATCH BASIN - SEE CIVIL DRAWINGS FOR MORE INFORMATION	EXISTING TREE
NEW PAINTED DIRECTIONAL ARROWS.	EXISTING TREE WITH PROTECTION
EMERGENCY EXIT	
EV ELECTRIC VEHICLE INFRASTRUCTURE	EXISTING FENCE TO REMAIN, PROTECT THROUGHOUT CONSTRUCTION
NEW SIDEWALK	EXISTING SIDEWALK
NEW PERMIABLE PAVERS	NOT IN CONTRACT
LANDSCAPE AREA, SEE LANDSCAPE PLANS	PROPERTY LINE

KEY PLAN



WORK SCOPE

SITE & PARKING

EXISTING ZONING C1-2

SITE: 80,147 SF OR 1.840 ACRES

PARKING SPACES

17-10-0207-E PARKING GROUP E. = 1 PER 3 EMPLOYEES
TOTAL FTE = 8 EMPLOYEES / 3 = **3 REQUIRED** PARKING SPACES

3 ACCESSIBLE PARKING SPACES PROVIDED
70 TOTAL PARKING SPACES PROVIDED

EXISTING PARKING = **70**

KEYNOTES

2.36	EXISTING WROUGHT IRON FENCE TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
10.15	NEW CONCRETE BASE AND METAL FLAGPOLE BASE. REINSTALL EXISTING STORED METAL FLAGPOLE AND FLAG. NEW FLAGPOLE BASE TO BE IN SIMILAR LOCATION AS EXISTING ALONG SIDEWALK AT MAIN ENTRANCE.
26.09	PROVIDE HANDHOLE AND COVER PLATE FOR FUTURE EV CHARGING STATION. COORDINATE WITH CIVIL AND ELECTRICAL DRAWINGS. HANDHOLE FOR FUTURE ACCESSIBLE EV CHARGING STATION SHOULD BE LOCATED TO ASSURE IT DOES NOT IMPEDE THE ACCESSIBLE ROUTE AND IS LOCATED IN ACCORDANCE WITH ACCESS BOARD RECOMMENDATIONS (HTTPS://WWW.ACCESS-BOARD.GOV/TA/TAD/EV/).

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WSLC ADDITION & RENOVATIONS

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Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ARCHITECTURAL SITE PLAN - NEW WORK

Sheet A010

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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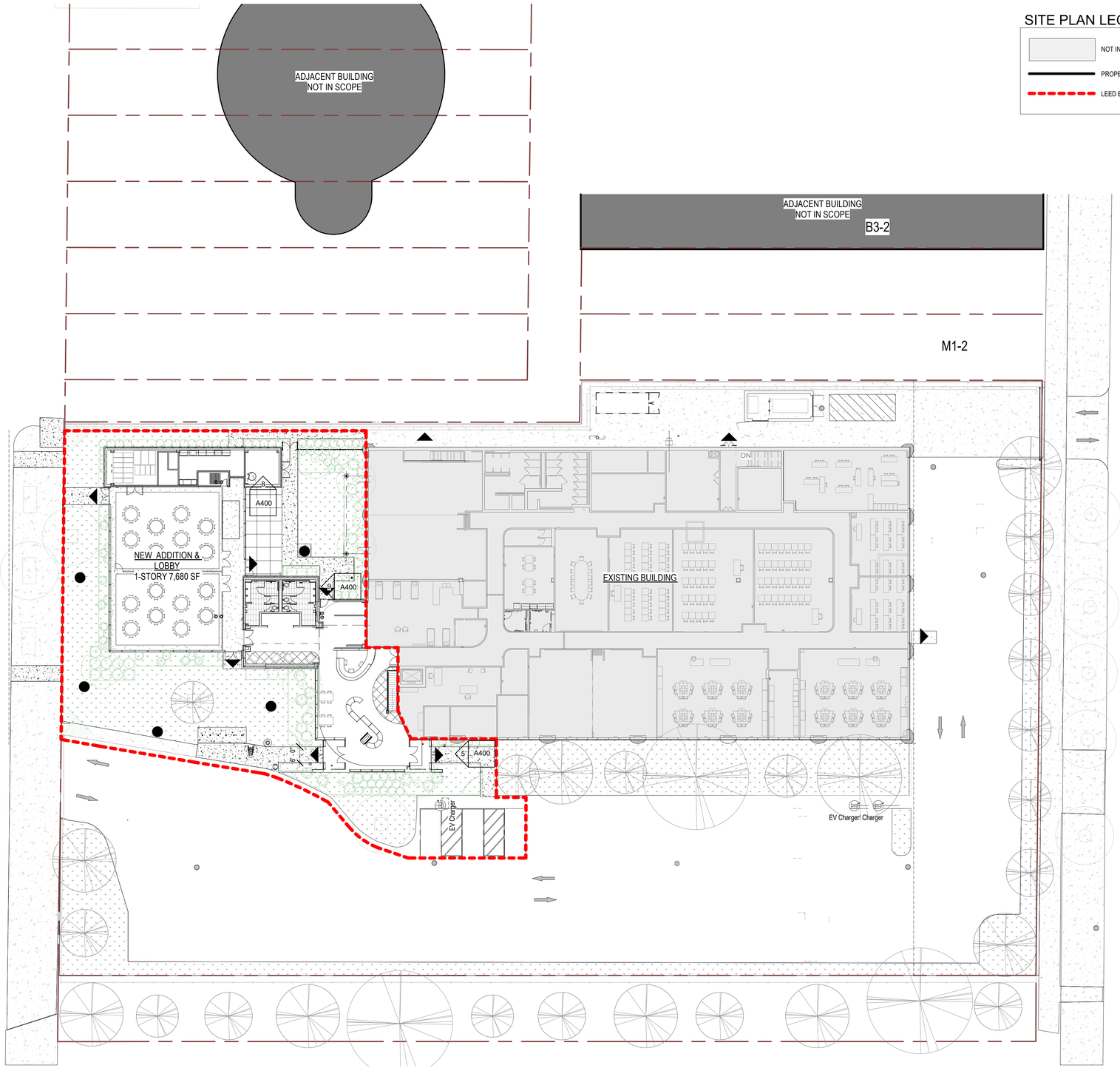
1-1/2" = 1'-0"

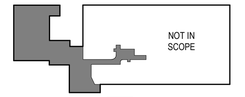
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



SITE PLAN LEGEND

- NOT IN CONTRACT
- PROPERTY LINE
- LEED BOUNDARY LINE

KEY PLAN



1 SITE PLAN - NEW WORK LEED BOUNDARY

1" = 20'-0"

0 10' 20' 40'

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Issuance

Mark	Description	Date
	Progress Set	03/14/2024

PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LEED BOUNDARY PLAN

Sheet A011

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
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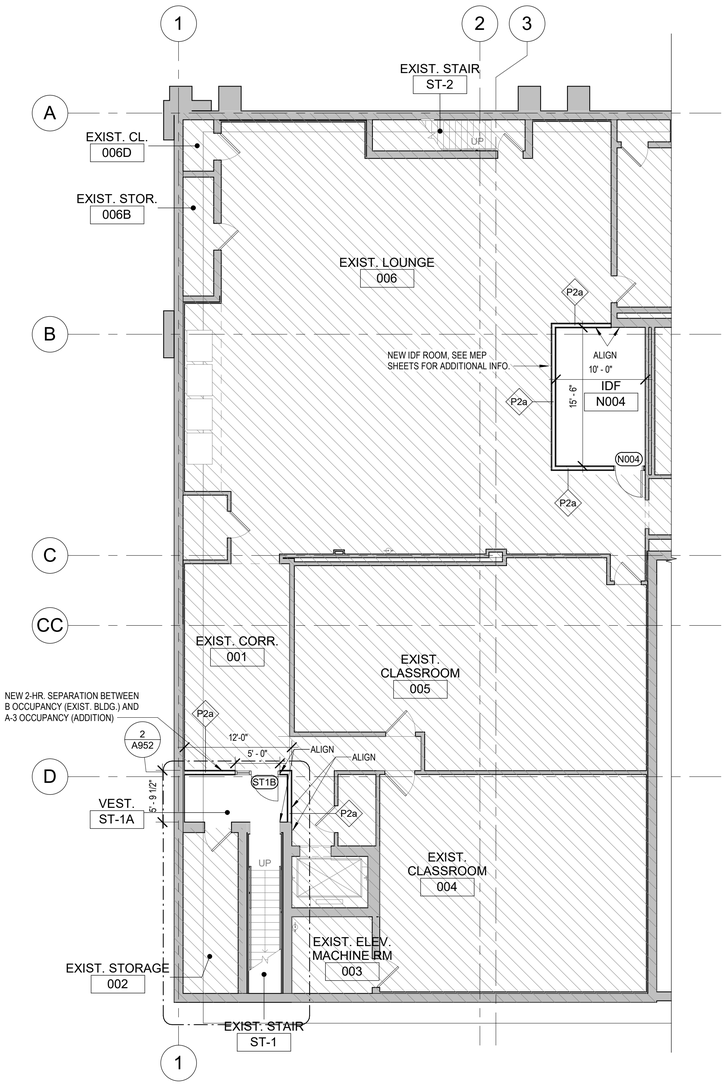

1 LOWER LEVEL PARTIAL FLOOR PLAN - NEW WORK - SOUTH

1/8" = 1'-0"

0 4' 8' 16'

NEW WORK PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME

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CITY COLLEGES OF CHICAGO

CITY OF CHICAGO, MAYOR BRANDON JOHNSON

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312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

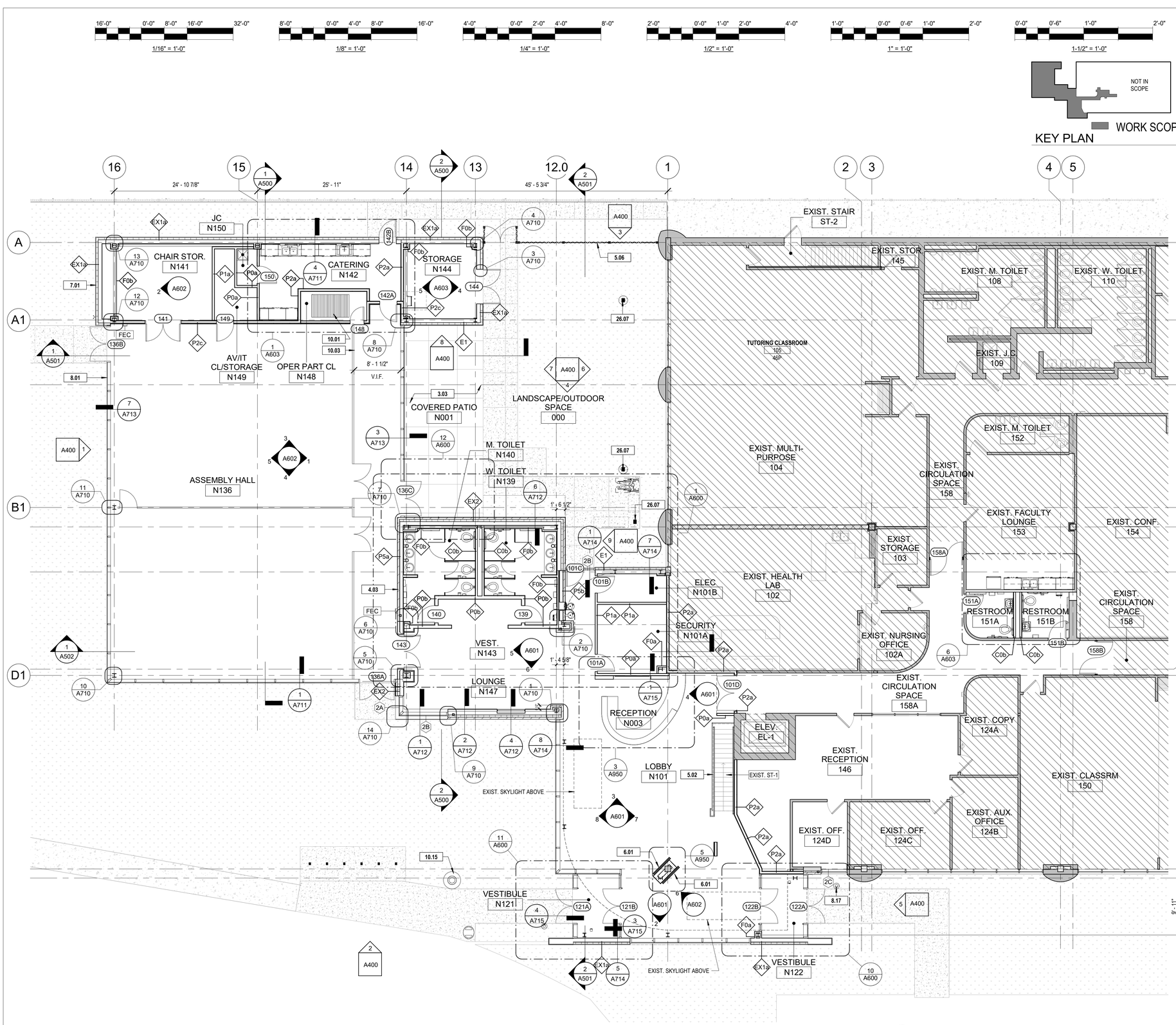
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER LEVEL FLOOR PLAN - NEW WORK - SOUTH

Sheet
A101



NEW WORK PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW FOUNDATION WALL AND FOOTING

KEYNOTES

- 3.03 4" CONCRETE SLAB ON GRADE OVER COMPACTED GRANULAR FILL. SEE STRUCTURAL.
- 4.03 BR-1 WITH EVERY OTHER COURSE PROJECTED 1/2"
- 5.02 GLASS GUARDRAIL SYSTEM
- 5.06 NEW 6' - 0" HIGH COURTYARD METAL PRIVACY FENCE SYSTEM WITH 72" GATE OPENING.
- 6.01 ACOUSTIC WOOD WALL PANELING. SEE SPECS.
- 7.01 ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
- 8.01 1" INSULATED LOW E GLAZED RATED ALUMINUM CURTAIN WALL SYSTEM WITH KYNAR FINISH, 4 SIDED SSG AND 6" BACKUP. SEE DRAWINGS.
- 8.17 ACCESSIBLE DOOR PUSH BUTTON ACTUATOR MOUNTED ON BOLLARD. COORDINATE WITH ELECTRICAL DRAWINGS AND DOOR HARDWARE SPEC.
- 10.01 FOLDABLE PARTITION
- 10.03 FOLDABLE PARTITION TRACK
- 10.15 NEW CONCRETE BASE AND METAL FLAGPOLE BASE. REINSTALL EXISTING STORED METAL FLAGPOLE AND FLAG. NEW FLAGPOLE BASE TO BE IN SIMILAR LOCATION AS EXISTING ALONG SIDEWALK AT MAIN ENTRANCE.
- 26.07 COURTYARD LIGHTING AND POWER BOLLARD, COORDINATE WITH ELECTRICAL DRAWINGS.

1 MAIN LEVEL FLOOR PLAN - NEW WORK - SOUTH

1/8" = 1'-0"

0 4' 8' 16'

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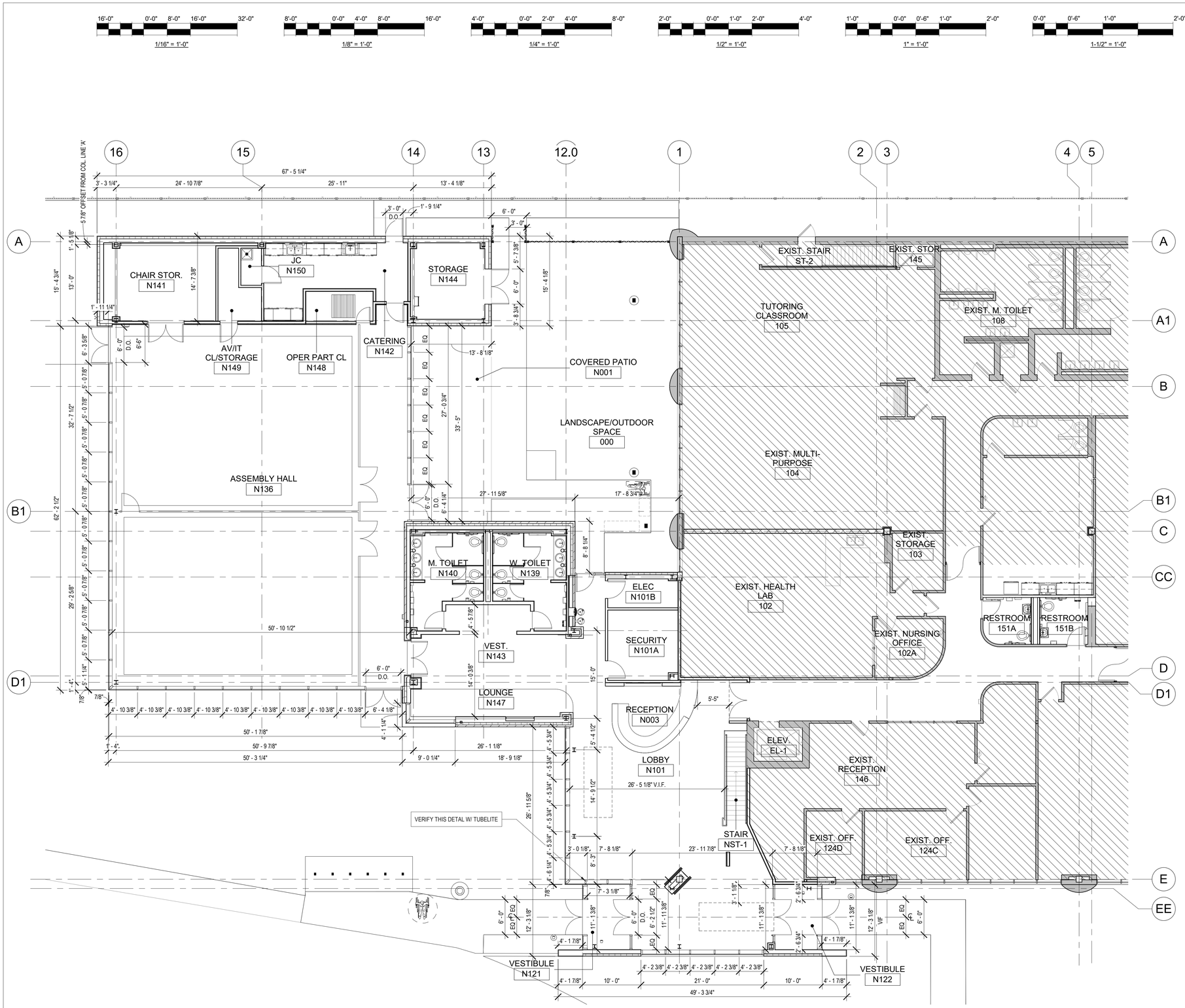
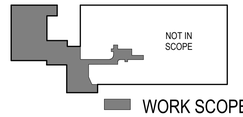
Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL FLOOR PLAN - NEW WORK - SOUTH

Sheet A103



1 **MAIN LEVEL FLOOR PLAN - DIMENSIONS - SOUTH**
1/8" = 1'-0"



KEY PLAN

NEW WORK PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW FOUNDATION WALL AND FOOTING

GENERAL NOTES

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4.EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS HAVE BEEN COMPILED BY THE ARCHITECT FROM EXISTING DRAWINGS PROVIDED BY THE OWNER AND FIELD MEASURING AND SHALL BE USED BY THE CONTRACTOR ONLY AS A GUIDE. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES IN THE SITE CONDITIONS OR THE DOCUMENTS TO THE ARCHITECT IN WRITING.

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13. REFER TO DRAWINGS OF OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND COORDINATION OF WORK. INCLUDING M/E/P/FP AND A/V DRAWINGS.

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15. WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM THE DRAWINGS OR SPECIFICATIONS. CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL DIMENSION PLAN - NEW WORK - SOUTH

Sheet
A103.1

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

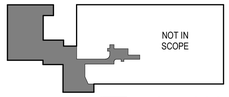
2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
1/2" = 1'-0"

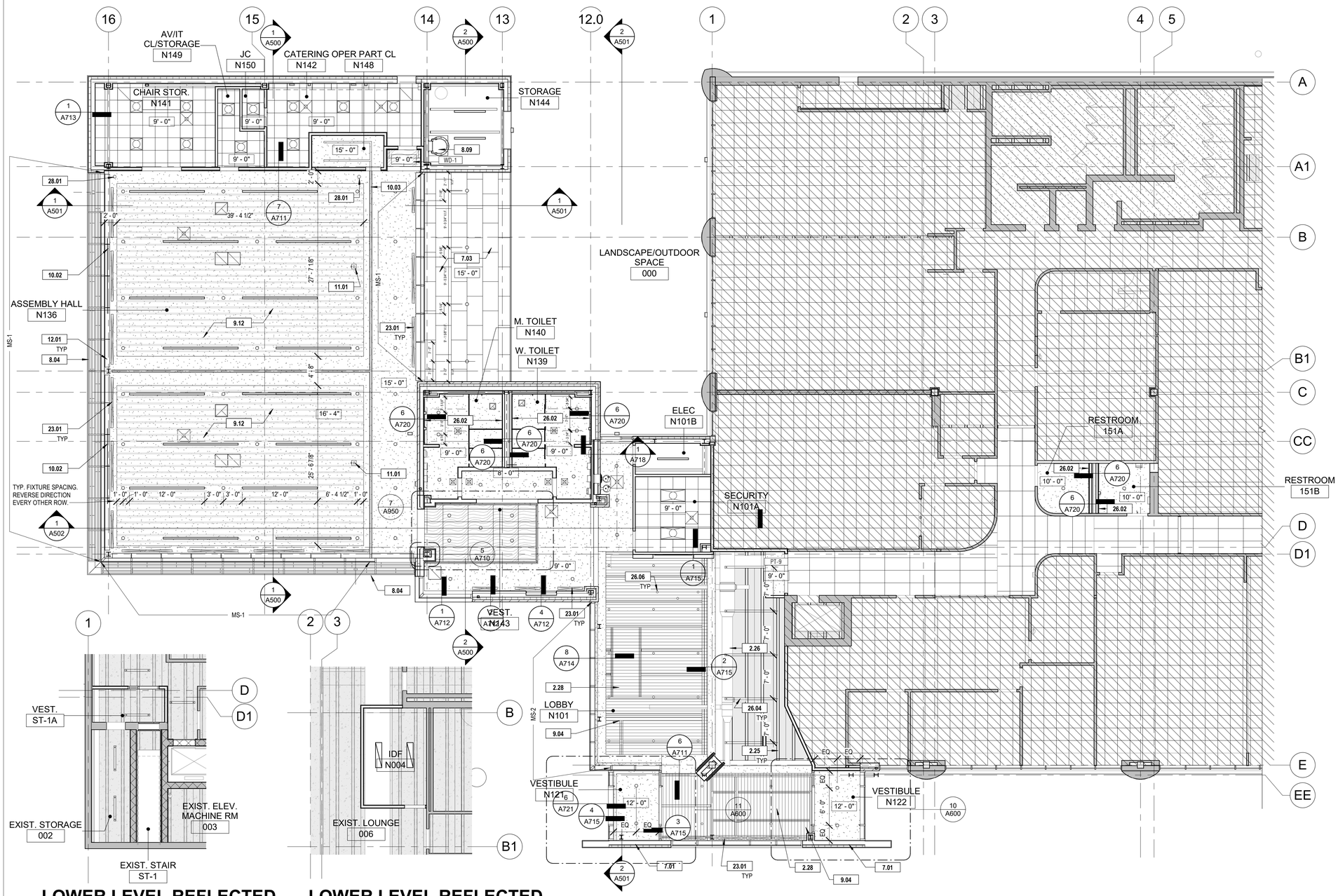
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

KEY PLAN





NEW WORK RCP LEGEND

- AREA NOT IN SCOPE OF WORK
- FLUSH LINEAR LIGHT FIXTURE
- MECH. SUPPLY DIFFUSER
- MECH. RETURN DIFFUSER
- CEILING MOUNTED PROJECTOR
- (S) SPEAKER
- 2X2 ACOUSTICAL CEILING TILE
- 2X4 ACOUSTICAL CEILING TILE
- GYPSUM WALLBOARD CEILING
- WOOD PANEL
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- COVE LIGHT
- PENDANT LIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- WOOD-LOOK POWDERCOATED METAL CEILING BAFFLE
- METAL SHEET CEILING BAFFLE

KEYNOTES

2.25 EXISTING CONCRETE T-BEAMS. PAINT.
2.26 PAINT EXISTING DUCTWORK
2.28 EXISTING SKYLIGHT
7.01 ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.03 METAL PANELS TO MATCH EXTERIOR WALLS
8.04 ALUMINUM SUNSHADE BY CURTAIN WALL MANUFACTURER, FINISH TO MATCH SEE DRAWINGS.
8.09 ROOF HATCH
9.04 METAL SHEET CEILING BAFFLES. SEE SPECS.
9.12 WOOD-LOOK POWDER COATED METAL CEILING BAFFLES. SEE SPECS. ALTERNATE 10"H AND 12"H EVERY OTHER BAFFLE.
10.02 PROJECTION SCREEN
10.03 FOLDABLE PARTITION TRACK
11.01 PROJECTOR BY OWNER. SEE DETAILS.
12.01 ROLLER SHADES POCKET
23.01 LINEAR DIFFUSER
26.02 COVE LIGHTING
26.04 LINEAR PENDANT LIGHTING
26.06 PENDANT LIGHT
28.01 CAMERA

2 LOWER LEVEL REFLECTED CEILING PLAN @ STAIR
1/8" = 1'-0"

3 LOWER LEVEL REFLECTED CEILING PLAN @ IDF
1/8" = 1'-0"

1 UPPER LEVEL REFLECTED CEILING PLAN - NEW WORK - SOUTH
1/8" = 1'-0"

0 4' 8' 16'

BIM 360://Malcom X West Side Learning Center Addition and Renovation/022137_MXC WSLC COMM RM AND EXISTING RENOVATION_ARCH21.rvt
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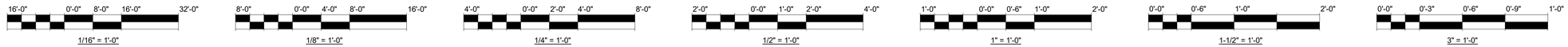
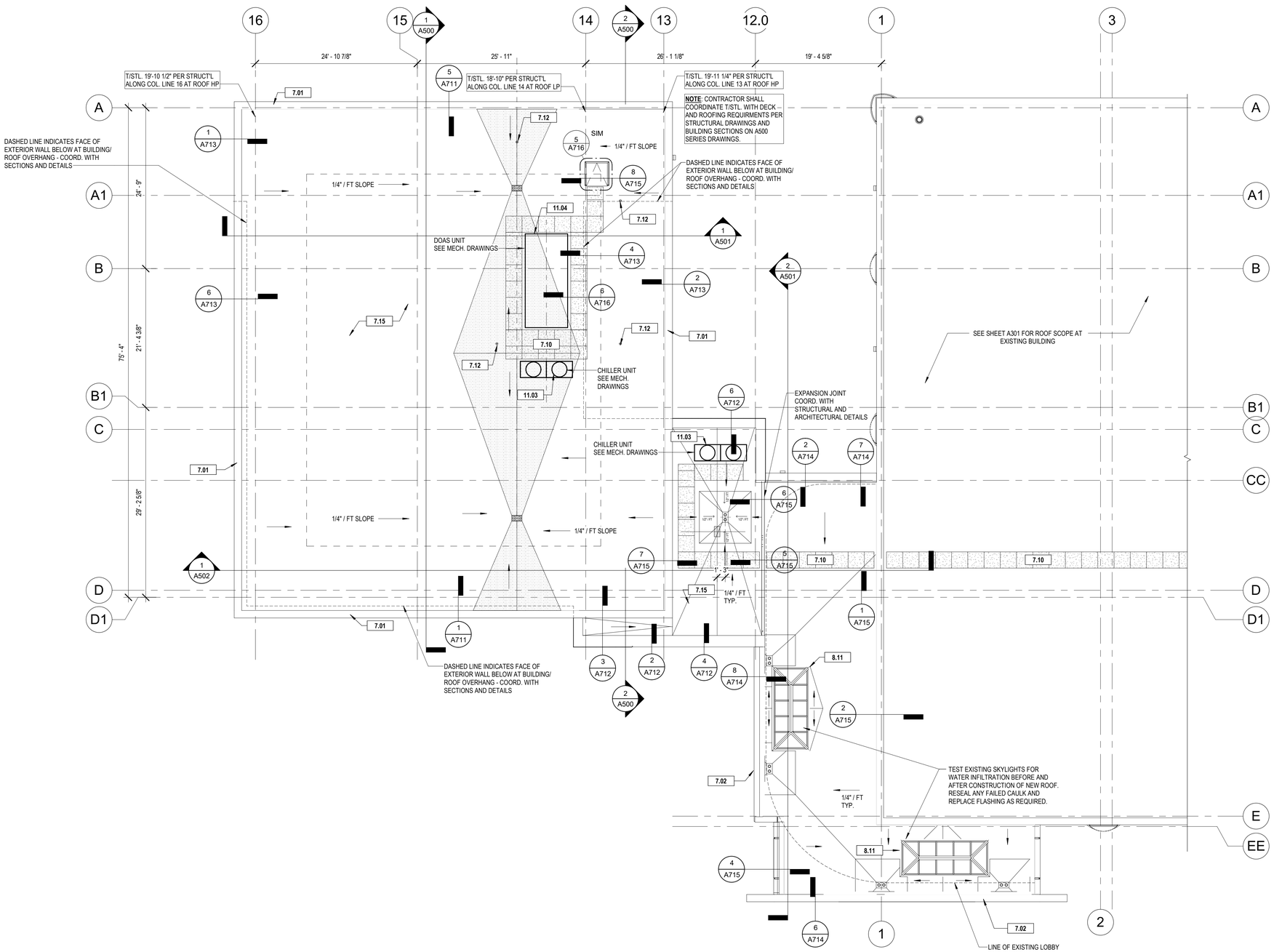
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL REFLECTED CEILING PLAN - SOUTH

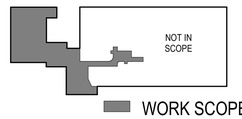
Sheet
A203





1 PARTIAL ROOF PLAN - NEW WORK

1/8" = 1'-0"



KEY PLAN

LEGEND

- WALKING PAD BY ROOF SYSTEM MANUFACTURE
- AREA NOT IN SCOPE
- AREA OF TAPERED INSULATION
- ROOF DRAIN W/ OVERFLOW
- ROOF PITCH
- ROOF HATCH
- ROOF TIE OFFS

KEYNOTES

7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.02	KYNAR FINISH ALUMINUM COPING
7.10	WALKING PAD BY ROOF SYSTEM MANUFACTURER
7.12	ROOF TIE OFF FALL PROTECTION
7.15	SBS MODIFIED BITUMEN ROOFING SYSTEM, SEE SPEC FOR MORE INFORMATION.
8.11	EXISTING SKYLIGHT
11.03	CONDENSING UNITS, SEE MECHANICAL DRAWINGS.
11.04	RTU, SEE MECHANICAL DRAWINGS.

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Title
ROOF PLAN - NEW ADDITION

Sheet A300

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8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

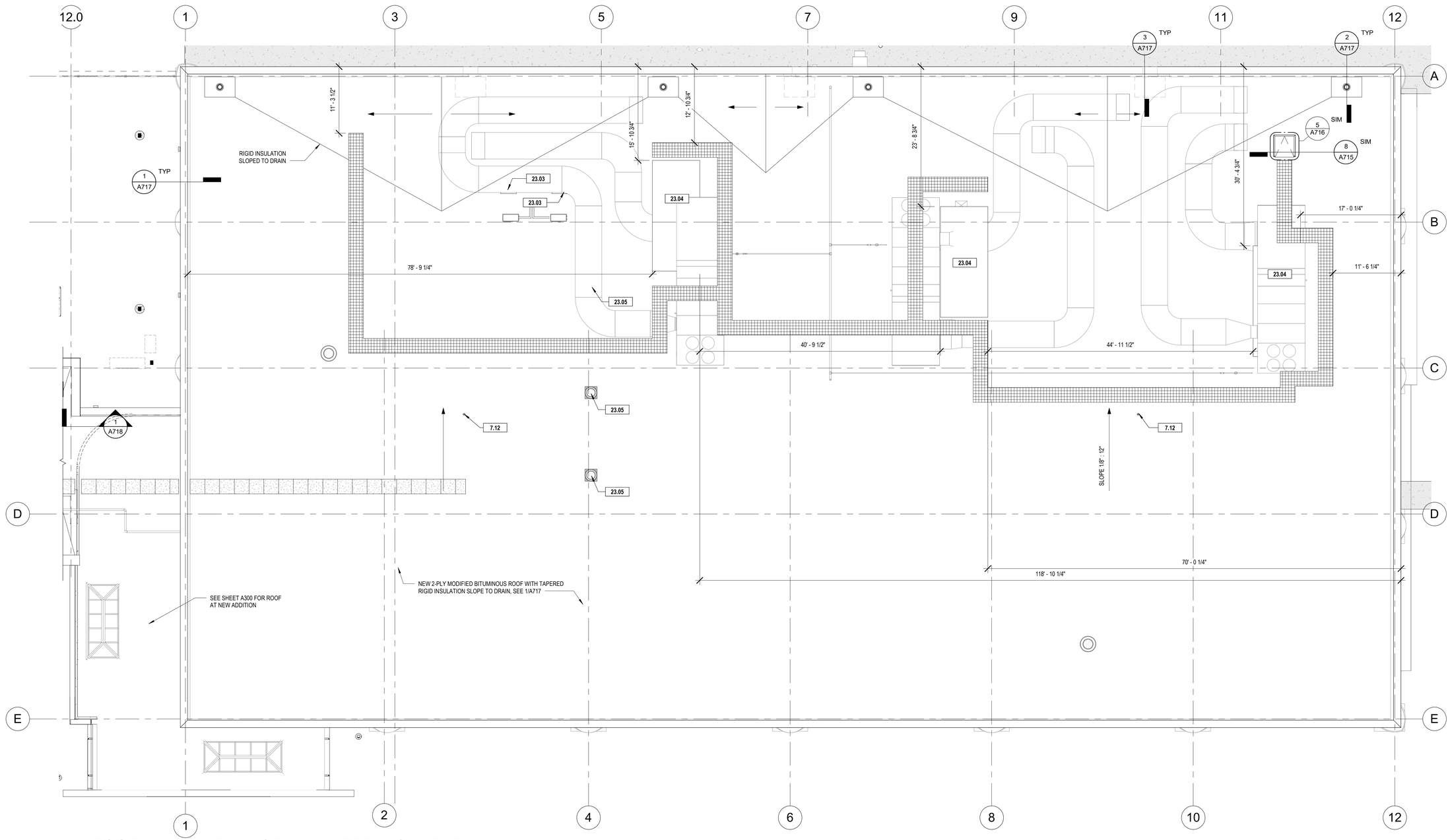
ROOF GENERAL NOTES

1. COORDINATE NEW MECHANICAL CURB LOCATIONS WITH MECHANICAL DRAWINGS.

KEYNOTES

7.12 ROOF TIE OFF FALL PROTECTION
23.03 CONDENSING UNIT, SEE MEP DWGS.
23.04 NEW AIR HANDLING UNIT, SEE MEP DWGS.
23.05 EXISTING EXHAUST FANS TO REMAIN.

SEE A300 FOR ALL NOTES PERTAINING TO NEW ADDITION ROOF.



1 **ROOF PLAN - NEW WORK AHU REPLACEMENT**
1/8" = 1'-0"

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Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

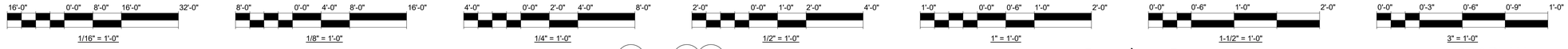
PBC Project Name:
West Side Learning Center Addition and Renovations

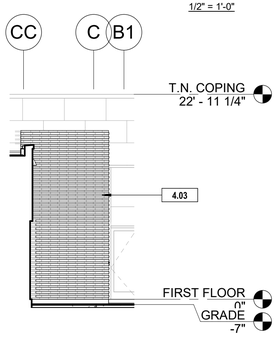
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

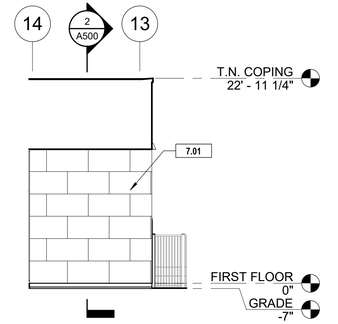
Title
ROOF PLAN - REPLACE ROOFING AND AHU

Sheet A301



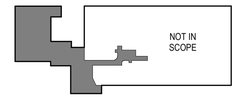


9 COURTYARD PART. NORTH ELEVATION
1/8" = 1'-0"



8 COURTYARD PART. EAST ELEVATION
1/8" = 1'-0"

KEY PLAN



EXTERIOR ELEVATION LEGEND

ALUMINUM WALL PANELS, SEE SPEC SECTION 07 42 13.16

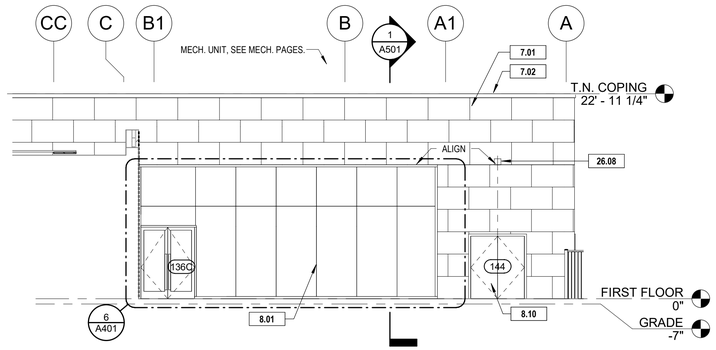
BR1 , NORMAN BRICK. SEE SPEC SECTION 04 20 00

BR1 , NORMAN BRICK WITH 1/2" CORBEL ON ALTERNATING HORIZONTAL COURSES. SEE SPEC SECTION 04 20 00

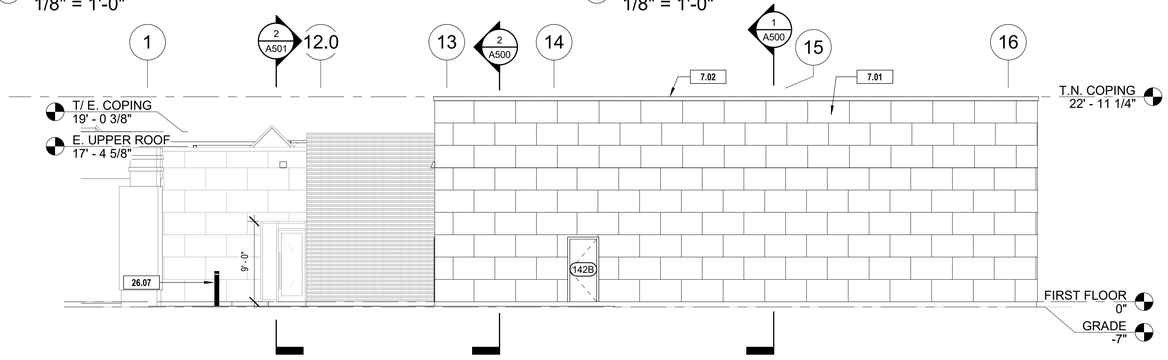
WHITE COURSE INDICATES 1/2" PROUD CORBEL. SEE ELEVATIONS

KEYNOTES

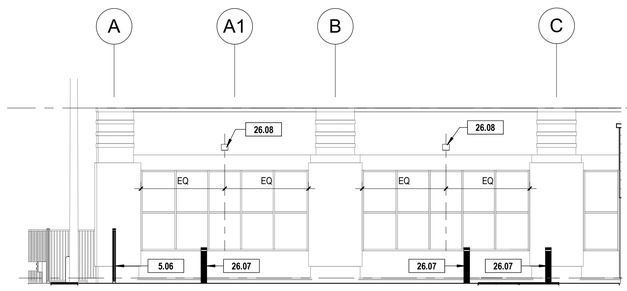
4.01	BR-1 NEW DARK IRON SPOT NORMAN BRICK VENEER EXTERIOR WALL WITH ZIPPER BOND AND MATCHING MORTAR
4.03	BR-1 WITH EVERY OTHER COURSE PROJECTED 1/2"
5.06	NEW 6' - 0" HIGH COURTYARD METAL PRIVACY FENCE SYSTEM WITH 72" GATE OPENING.
7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.02	KYNAR FINISH ALUMINUM COPING
7.14	SIGNAGE BY CCC. POWER REQUIRED, SEE ELEC. POWER PLANS.
8.01	1" INSULATED LOW E GLAZED RATED ALUMINUM CURTAIN WALL SYSTEM WITH KYNAR FINISH, 4 SIDED SSG AND 6" BACKUP. SEE DRAWINGS.
8.10	HOLLOW METAL DOOR
8.12	HOLLOW METAL DOOR.
26.07	COURTYARD LIGHTING AND POWER BOLLARD, COORDINATE WITH ELECTRICAL DRAWINGS.
26.08	EXTERIOR WALL-MOUNTED FIXTURE, COORDINATE WITH ELECTRICAL DRAWINGS.



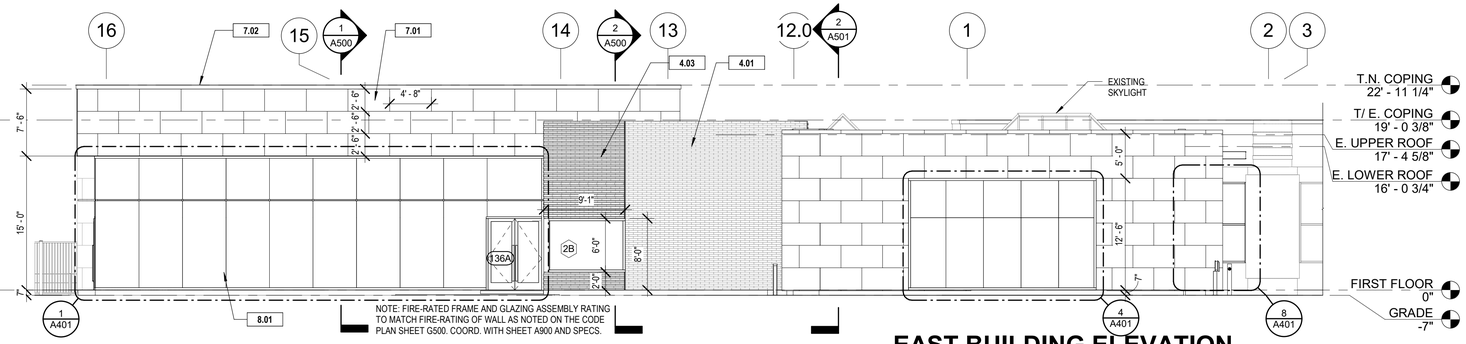
7 NORTH PARTIAL ELEVATION
1/8" = 1'-0"



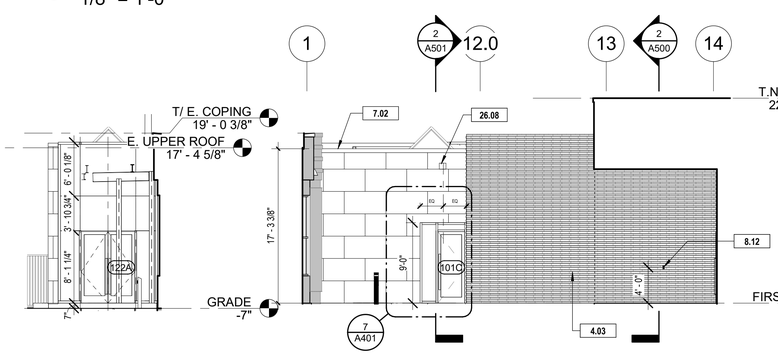
3 WEST BUILDING ELEVATION
1/8" = 1'-0"



6 EXIST. BLDG. SOUTH ELEVATION AT COURTYARD
1/8" = 1'-0"

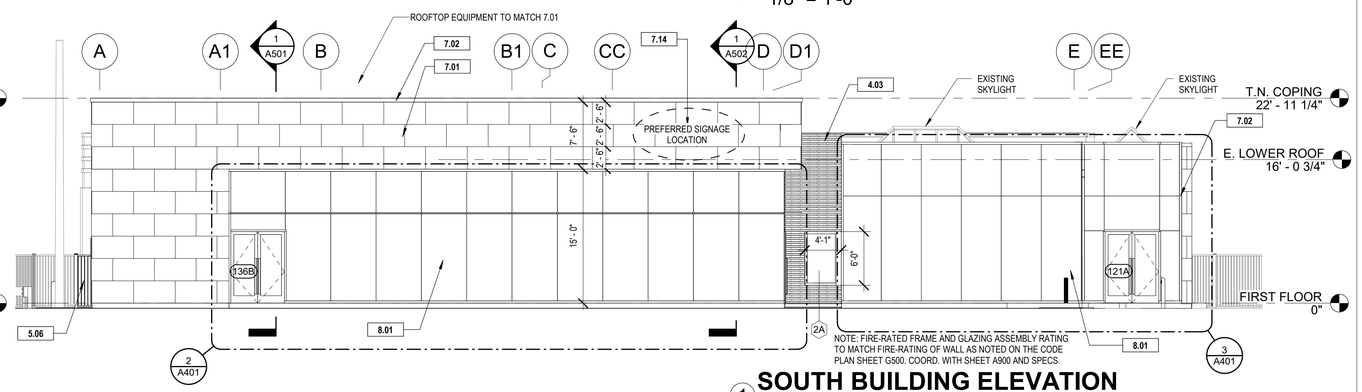


2 EAST BUILDING ELEVATION
1/8" = 1'-0"



5 PART. NORTH ELEV.
1/8" = 1'-0"

4 WEST PARTIAL ELEVATION
1/8" = 1'-0"



1 SOUTH BUILDING ELEVATION
1/8" = 1'-0"

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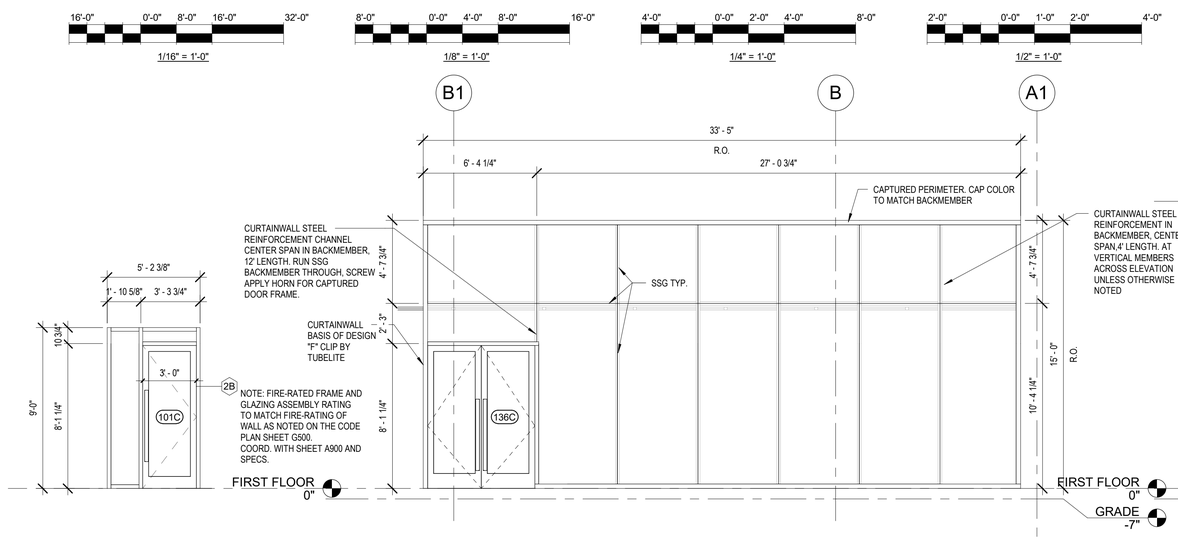
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

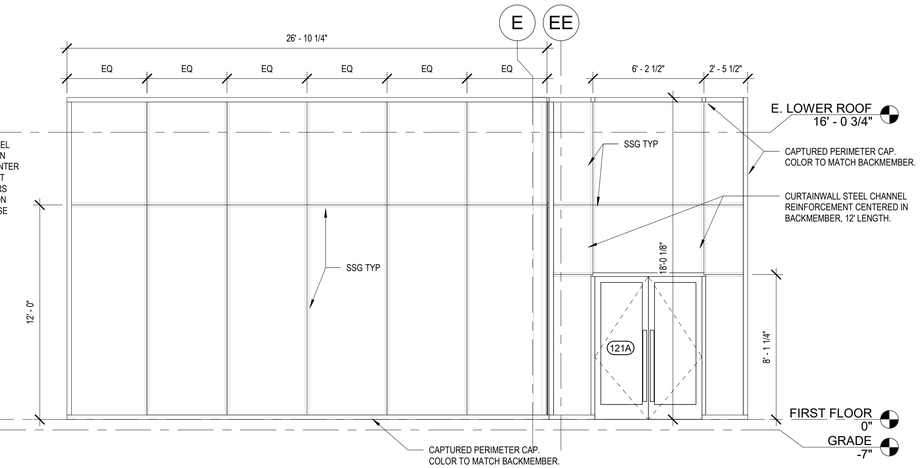
Project No.: BED 022137 / PBC 03720

Title
EXTERIOR ELEVATIONS

Sheet
A400

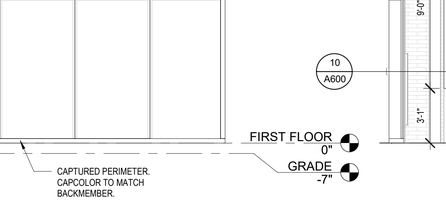


7 CURTAIN WALL ELEVATION
1/4" = 1'-0"

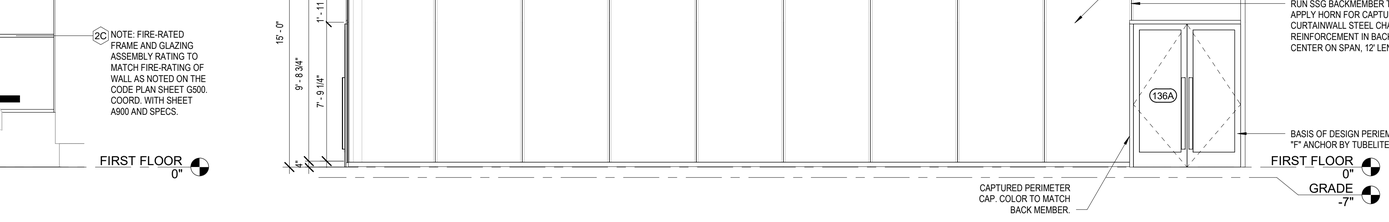


6 CURTAIN WALL ELEVATION
1/4" = 1'-0"

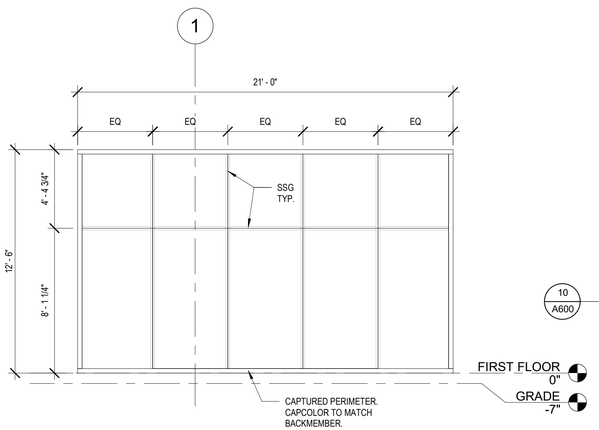
3 CURTAIN WALL ELEVATION
1/4" = 1'-0"



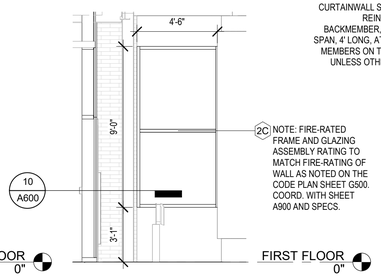
5 CURTAIN WALL ELEVATION
1/4" = 1'-0"



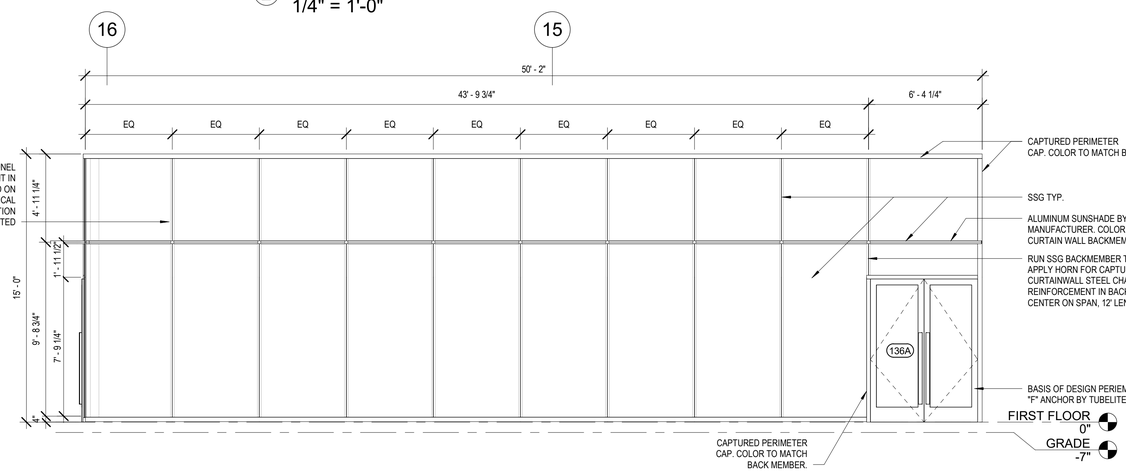
2 CURTAIN WALL ELEVATION
1/4" = 1'-0"



4 CURTAIN WALL ELEVATION
1/4" = 1'-0"



8 OFFICE WINDOW
1/4" = 1'-0"



1 CURTAIN WALL ELEVATION
1/4" = 1'-0"

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CITY COLLEGES of CHICAGO

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Issuance

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	75% CD Draft for Procurement - Not For Construction	03/13/2024

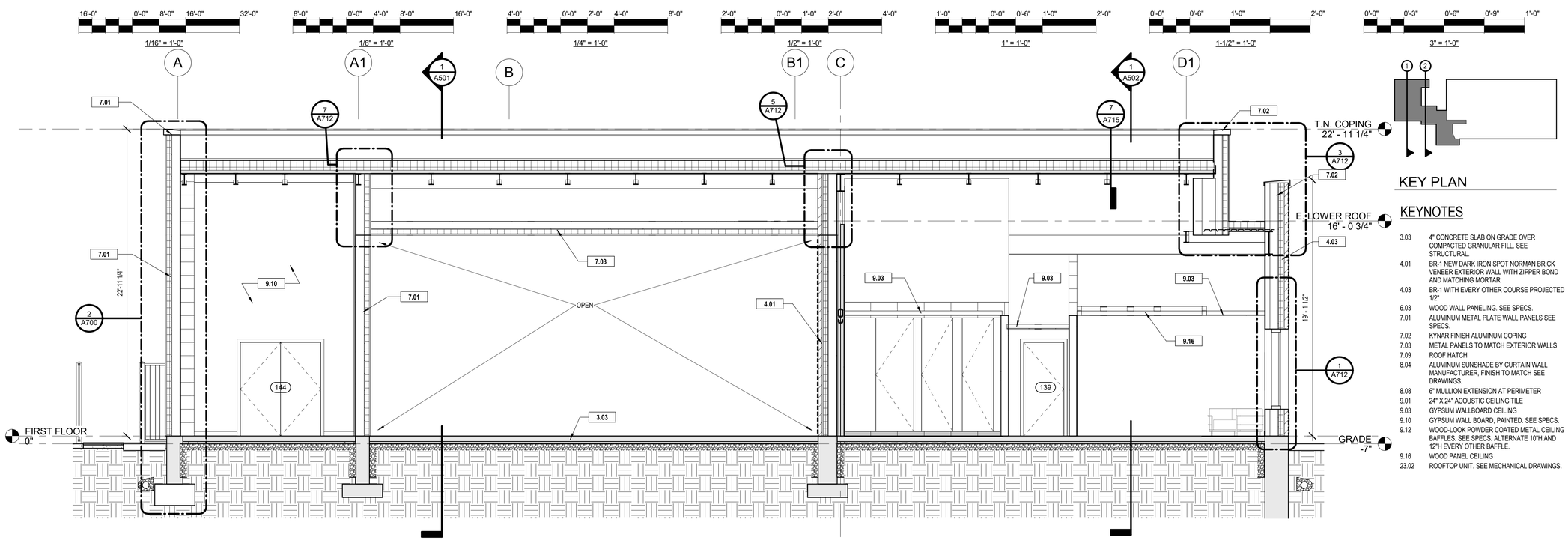
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

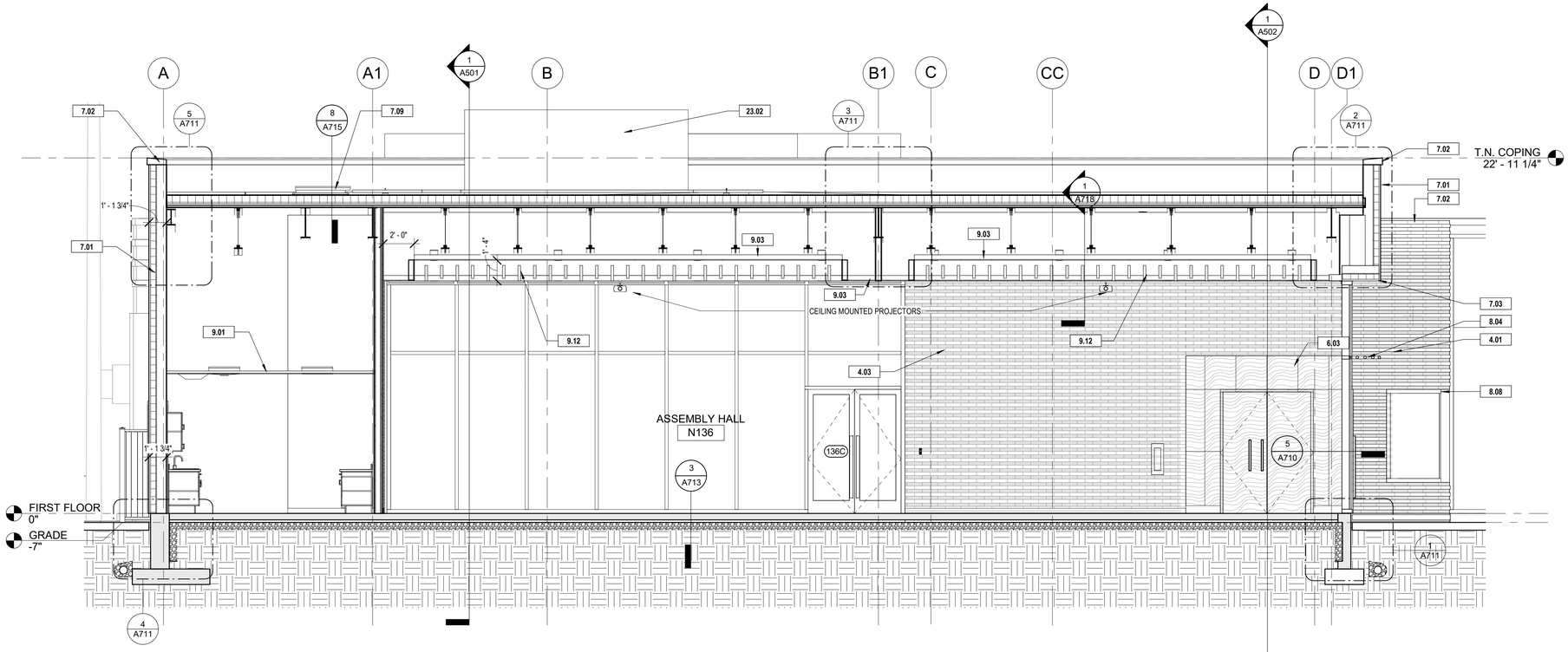
Title
CURTAIN WALL ELEVATIONS

Sheet
A401



2 E-W BLDG SECTION - PHASE 1B - COURTYARD

1/4" = 1'-0"



1 E-W BLDG SECTION - PHASE 1B - COMMUNITY CENTER

1/4" = 1'-0"

KEY PLAN

KEYNOTES

3.03	4" CONCRETE SLAB ON GRADE OVER COMPACTED GRANULAR FILL. SEE STRUCTURAL.
4.01	BR-1 NEW DARK IRON SPOT NORMAN BRICK VENEER EXTERIOR WALL WITH ZIPPER BOND AND MATCHING MORTAR
4.03	BR-1 WITH EVERY OTHER COURSE PROJECTED 1/2"
6.03	WOOD WALL PANELING. SEE SPECS.
7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.02	KYNAR FINISH ALUMINUM COPING
7.03	METAL PANELS TO MATCH EXTERIOR WALLS
7.09	ROOF HATCH
8.04	ALUMINUM SUNSHADE BY CURTAIN WALL MANUFACTURER, FINISH TO MATCH SEE DRAWINGS.
8.08	6" MULLION EXTENSION AT PERIMETER
9.01	24" X 24" ACOUSTIC CEILING TILE
9.03	GYPSUM WALLBOARD CEILING
9.10	GYPSUM WALL BOARD, PAINTED. SEE SPECS.
9.12	WOOD-LOOK POWDER COATED METAL CEILING BAFFLES. SEE SPECS. ALTERNATE 10"H AND 12"H EVERY OTHER BAFFLE.
9.16	WOOD PANEL CEILING
23.02	ROOFTOP UNIT. SEE MECHANICAL DRAWINGS.

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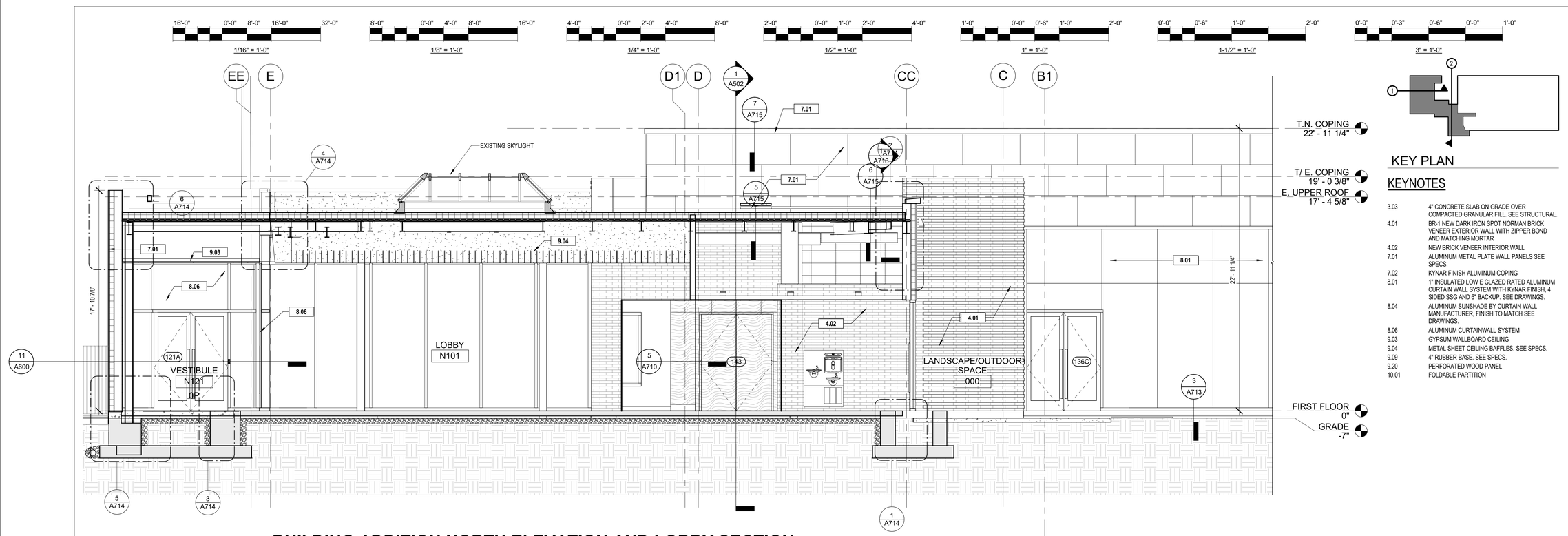
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
BUILDING SECTIONS

Sheet
A500



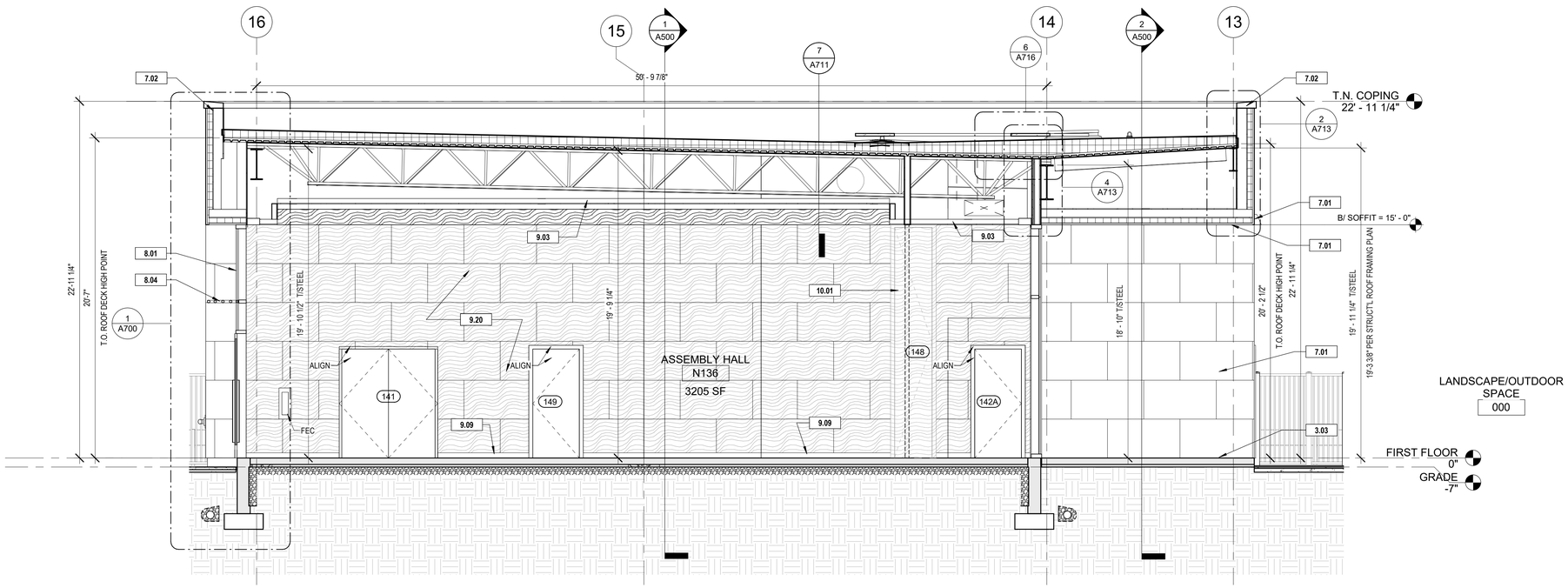
2 BUILDING ADDITION NORTH ELEVATION AND LOBBY SECTION

1/4" = 1'-0"

KEY PLAN

KEYNOTES

3.03	4" CONCRETE SLAB ON GRADE OVER COMPACTED GRANULAR FILL. SEE STRUCTURAL.
4.01	BR-1 NEW DARK IRON SPOT NORMAN BRICK VENEER EXTERIOR WALL WITH ZIPPER BOND AND MATCHING MORTAR
4.02	NEW BRICK VENEER INTERIOR WALL
7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.02	KYNAR FINISH ALUMINUM COPING
8.01	1" INSULATED LOW E GLAZED RATED ALUMINUM CURTAIN WALL SYSTEM WITH KYNAR FINISH, 4 SIDED SSG AND 6" BACKUP. SEE DRAWINGS.
8.04	ALUMINUM SUNSHADE BY CURTAIN WALL MANUFACTURER, FINISH TO MATCH SEE DRAWINGS.
8.06	ALUMINUM CURTAINWALL SYSTEM
9.03	GYPSUM WALLBOARD CEILING
9.04	METAL SHEET CEILING BAFFLES. SEE SPECS.
9.09	4" RUBBER BASE. SEE SPECS.
9.20	PERFORATED WOOD PANEL
10.01	FOLDABLE PARTITION



1 N-S BUILDING SECTION THROUGH COMMUNITY CENTER

1/4" = 1'-0"

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
BUILDING SECTIONS

Sheet A501

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

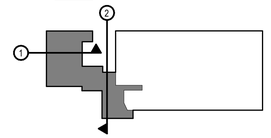
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

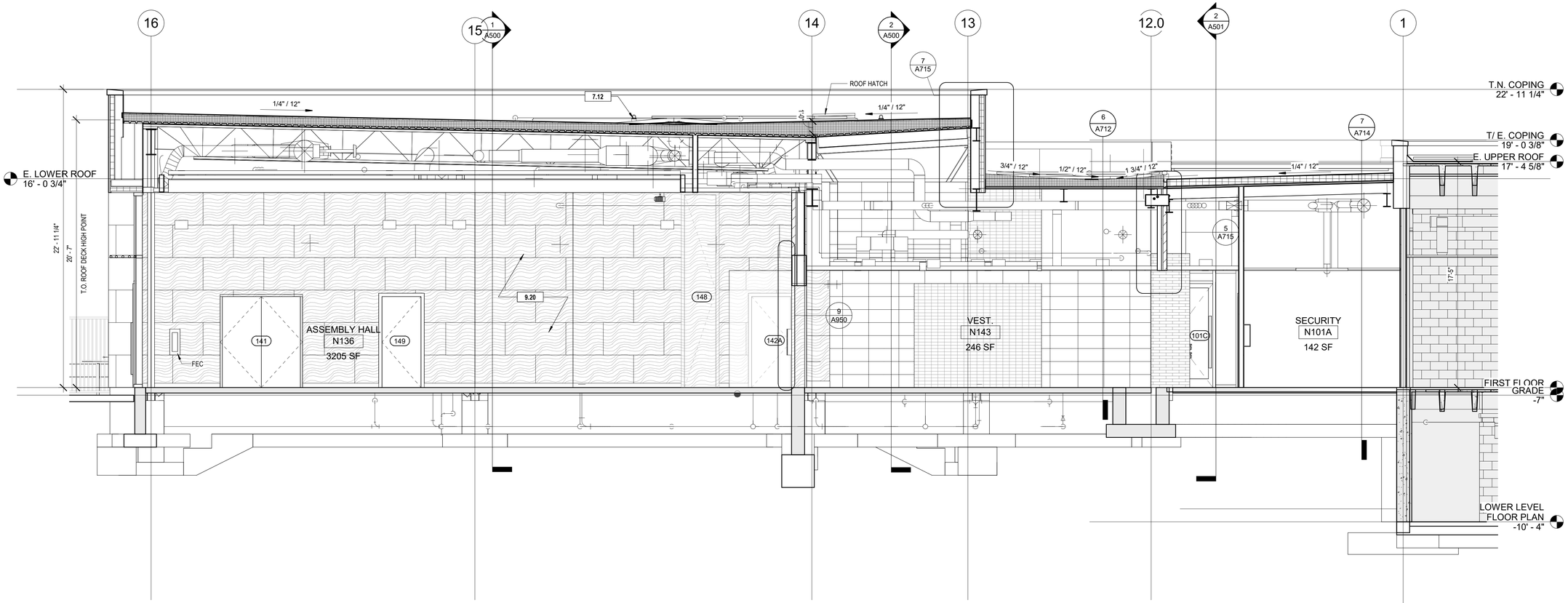
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



KEY PLAN

KEYNOTES

7.12	ROOF TIE OFF FALL PROTECTION
9.20	PERFORATED WOOD PANEL



1 BUILDING SECTION LOOKING WEST

1/4" = 1'-0"

PUBLIC BUILDING COMMISSION

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WSLC ADDITION & RENOVATIONS

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
BUILDING SECTIONS

Sheet A502

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

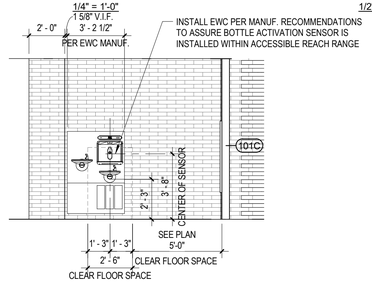
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

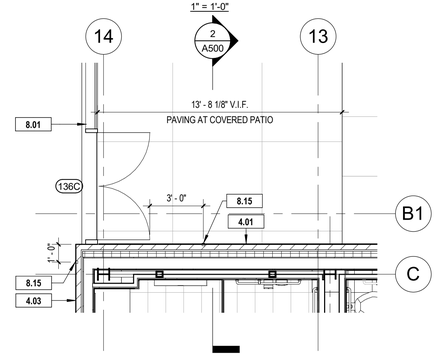
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



13 ELEVATION AT DRINKING FOUNTAIN
1/4" = 1'-0"

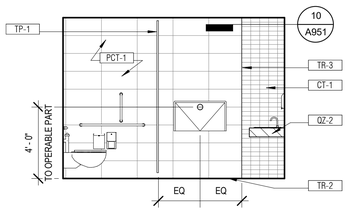


12 Door 136D ACCESSIBLE ENTRY
1/4" = 1'-0"

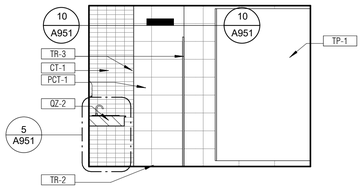
RESTROOM ACCESSORIES	
TAG	DESCRIPTION
A-01	18" VERTICAL GRAB BAR
A-02	42" HORIZONTAL GRAB BAR
A-03	36" HORIZONTAL GRAB BAR
A-04	TOILET TISSUE DISPENSER
A-05	SANITARY NAPKIN DISPOSAL
A-06	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
A-07	SOAP DISPENSER
A-08	ELECTRIC WALL-MOUNTED HAND DRYER WITH HEPA FILTER
A-09	6" DIA. GROMMET
A-10	WALL-MOUNTED MIRROR 24"X60"
A-11	BABY CHANGING STATION
A-12	FOOT DOOR PULL
A-13	COAT HOOK
A-14	PAPER TOWEL DISPENSER
A-15	SANITARY NAPKIN DISPENSER

KEYNOTES

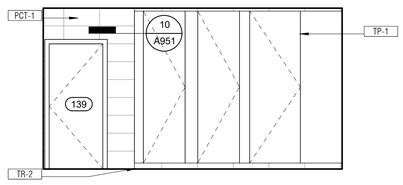
4.01	BR-1 NEW DARK IRON SPOT NORMAN BRICK VENEER EXTERIOR WALL WITH ZIPPER BOND AND MATCHING MORTAR
4.03	BR-1 WITH EVERY OTHER COURSE PROJECTED 1/2"
7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
8.01	1" INSULATED LOW E GLAZED RATED ALUMINUM CURTAIN WALL SYSTEM WITH KYNAR FINISH, 4 SIDED SSG AND 6" BACKUP. SEE DRAWINGS.
8.06	ALUMINUM CURTAINWALL SYSTEM
8.13	ACCESSIBLE DOOR PUSH BUTTON ACTUATOR MOUNTED TO ALUM. STOREFRONT. COORDINATE WITH ELECTRICAL DRAWINGS AND DOOR HARDWARE SPEC.
8.15	ACCESSIBLE DOOR PUSH BUTTON ACTUATOR FLUSH WALL MOUNTED. COORDINATE WITH ELECTRICAL DRAWINGS AND DOOR HARDWARE SPEC.
8.16	ACCESSIBLE DOOR PUSH BUTTON ACTUATOR AND CARD READER MOUNTED ON BOLLARD. COORDINATE WITH ELECTRICAL DRAWINGS AND DOOR HARDWARE SPEC.
8.17	ACCESSIBLE DOOR PUSH BUTTON ACTUATOR MOUNTED ON BOLLARD. COORDINATE WITH ELECTRICAL DRAWINGS AND DOOR HARDWARE SPEC.
22.01	WHEELCHAIR ACCESSIBLE WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER AND FULL STAINLESS STEEL BACKGROUND. BOTTLE FILLER SHALL MEET REQUIREMENTS FOR OPERABLE PARTS.
26.07	COURTYARD LIGHTING AND POWER BOLLARD, COORDINATE WITH ELECTRICAL DRAWINGS.



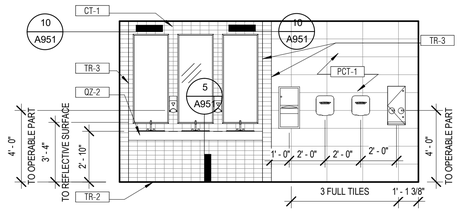
9 WOMEN'S TOILET 139 WEST ELEVATION
1/4" = 1'-0"



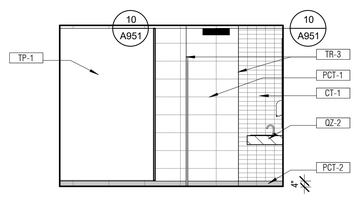
8 WOMENS TOILET 139 EAST ELEVATION
1/4" = 1'-0"



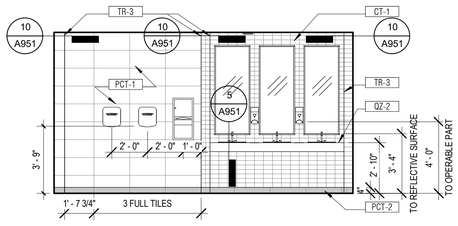
7 WOMENS TOILET 139 SOUTH ELEVATION
1/4" = 1'-0"



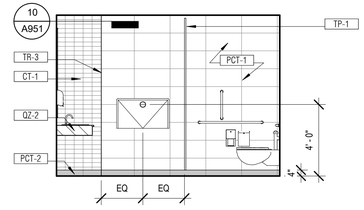
6 WOMENS TOILET 139 NORTH ELEVATION
1/4" = 1'-0"



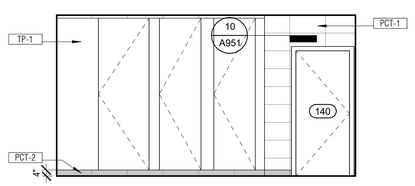
5 MENS TOILET 140 EAST ELEVATION
1/4" = 1'-0"



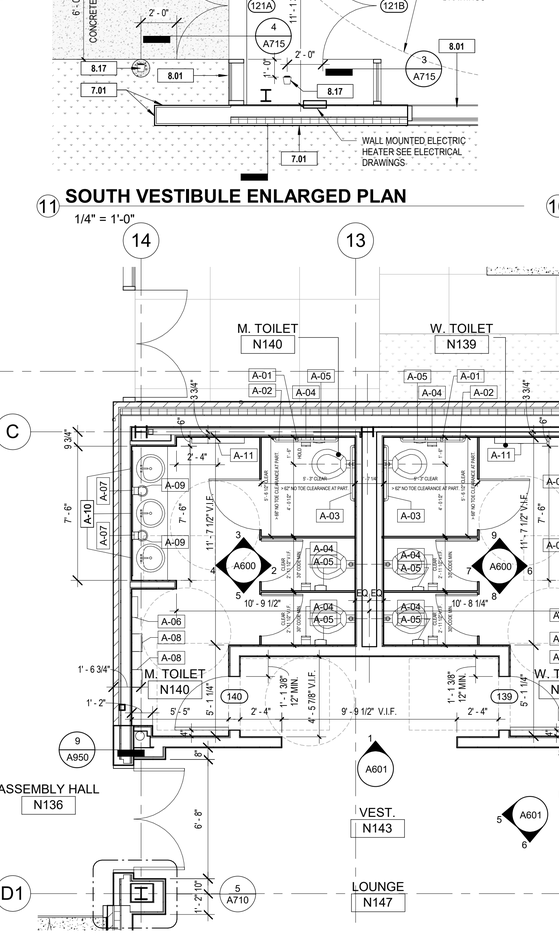
4 MENS TOILET 140 SOUTH ELEVATION
1/4" = 1'-0"



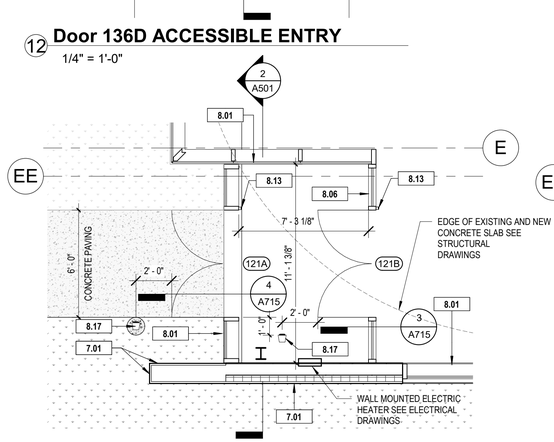
3 MENS TOILET 140 WEST ELEVATION
1/4" = 1'-0"



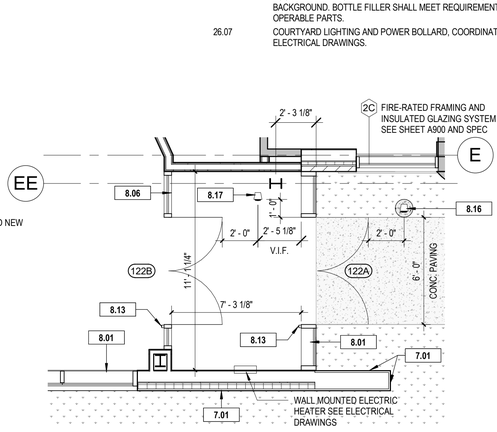
2 MENS TOILET 140 NORTH ELEVATION
1/4" = 1'-0"



1 ENLARGED PLAN - TOILETS
1/4" = 1'-0"



11 SOUTH VESTIBULE ENLARGED PLAN
1/4" = 1'-0"



10 NORTH VESTIBULE ENLARGED PLAN
1/4" = 1'-0"

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MEPFP Engineers of Record

HUS Architecture
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LEED Consultant

Issuance

Mark	Description	Date
	75% CD Draft for Procurement - Not For Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ENLARGED PLANS & INTERIOR ELEVATIONS

Sheet
A600

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

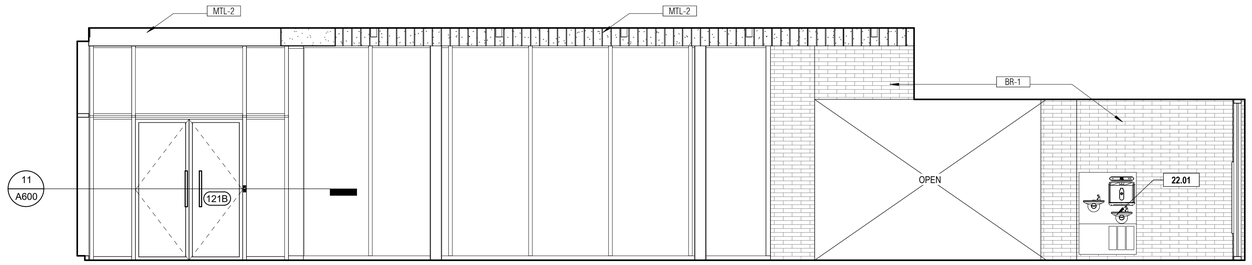
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

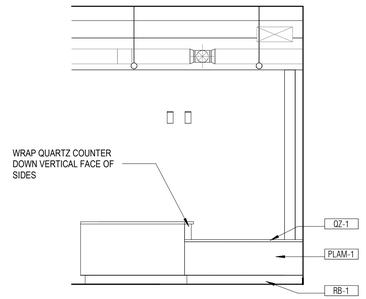
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



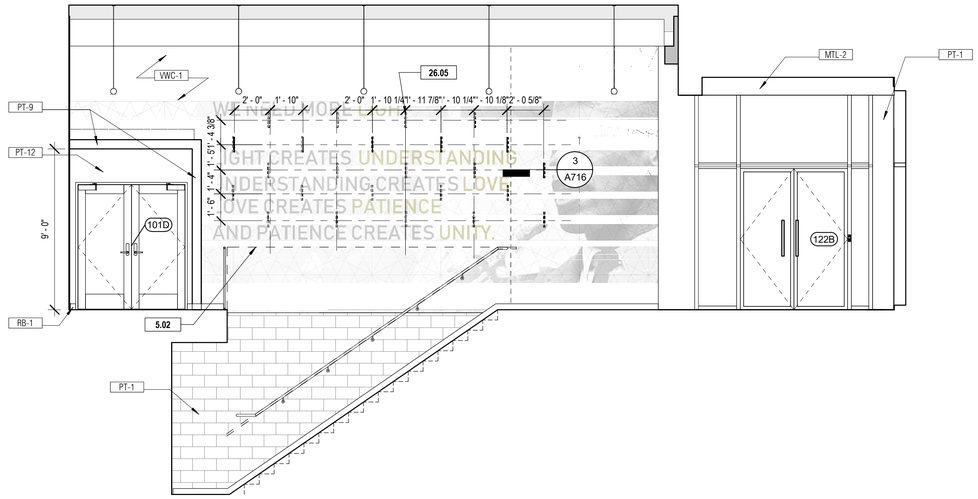
8 LOBBY ELEVATIONS
1/4" = 1'-0"



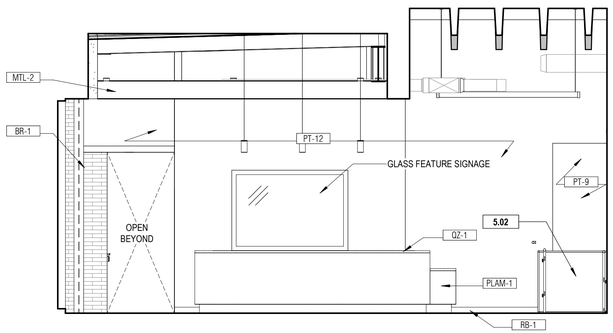
4 SECURITY DESK LOOKING SOUTH
1/4" = 1'-0"

KEYNOTES

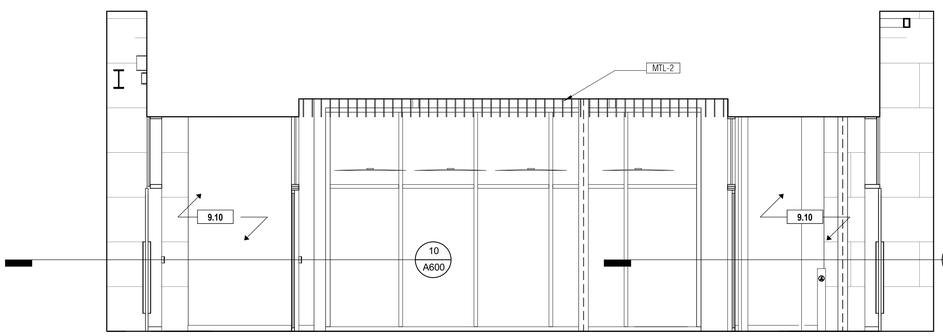
5.02	GLASS GUARDRAIL SYSTEM
9.10	GYPSUM WALL BOARD, PAINTED. SEE SPECS.
11.06	RECESSED FLAT SCREEN TV 65" PROVIDED BY OWNER.
22.01	WHEELCHAIR ACCESSIBLE WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER AND FULL STAINLESS STEEL BACKGROUND. BOTTLE FILLER SHALL MEET REQUIREMENTS FOR OPERABLE PARTS.
26.05	LED BLADE LIGHT WITH CUSTOM TEXT. FIXTURE TO BE SET IN WALL WITH BLADE EXTENDING OUT 4". SEE DTLS. 2&3/A716



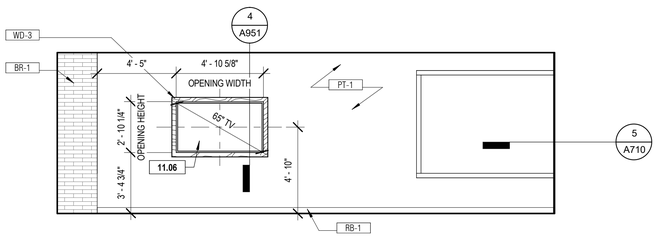
7 LOBBY ELEVATION NORTH FEATURE WALL
1/4" = 1'-0"



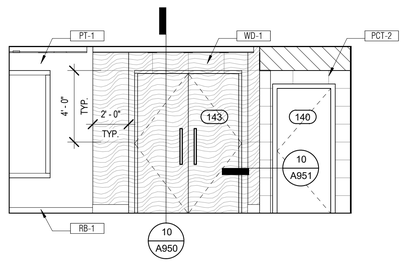
3 LOBBY ELEVATION LOOKING WEST
1/4" = 1'-0"



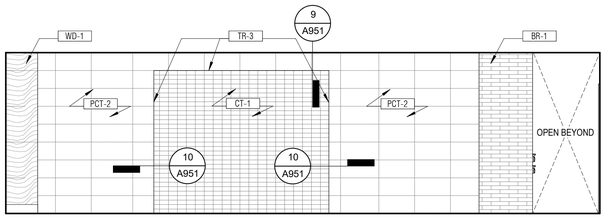
2 LOBBY VESTIBULE ELEVATION LOOKING EAST
1/4" = 1'-0"



6 VESTIBULE 143 EAST ELEVATION
1/4" = 1'-0"



5 VESTIBULE 143 SOUTH ELEVATION
1/4" = 1'-0"



1 DRINKING FOUNTAINS WEST ELEVATION
1/4" = 1'-0"

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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
INTERIOR ELEVATIONS

Sheet A601

WSLC ADDITION & RENOVATIONS
4624 WEST MADISON ST.
CHICAGO IL 60644
CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

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1/2" = 1'-0"

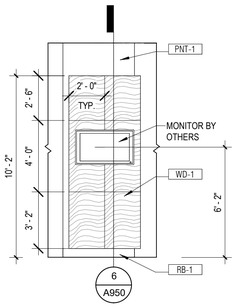
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

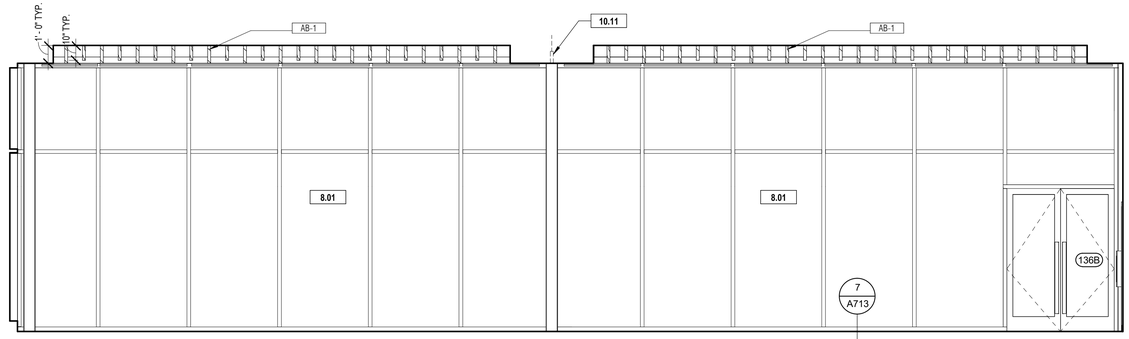
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

KEYNOTES

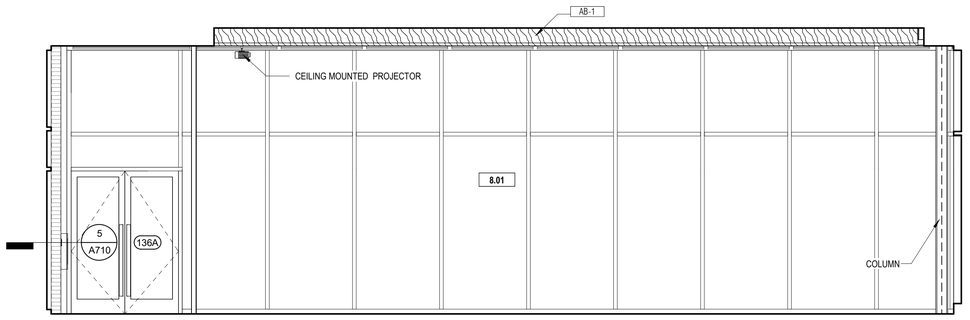
8.01	1" INSULATED LOW E GLAZED RATED ALUMINUM CURTAIN WALL SYSTEM WITH KYNAR FINISH, 4 SIDED SSG AND 6" BACKUP. SEE DRAWINGS.
10.11	SANITARY NAPKIN DISPOSAL UNIT. SEE SPECS.



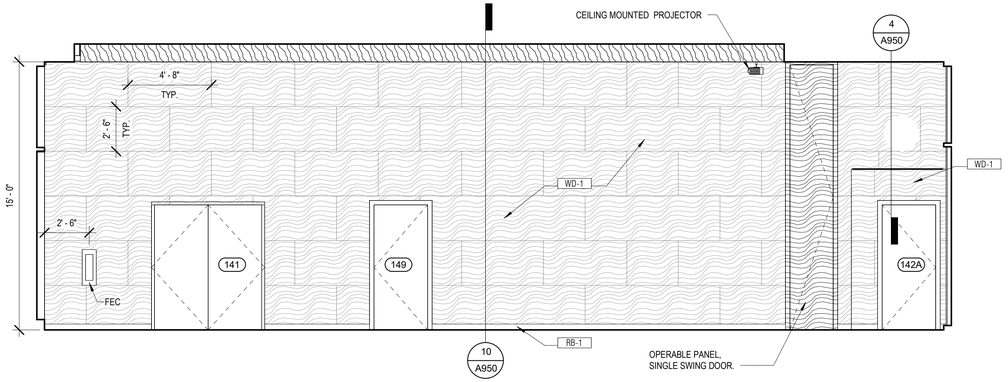
6 COLUMN ELEVATION
1/4" = 1'-0"



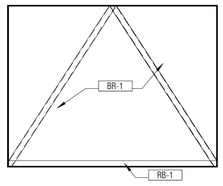
5 ASSEMBLY HALL 136 SOUTH ELEVATION
1/4" = 1'-0"



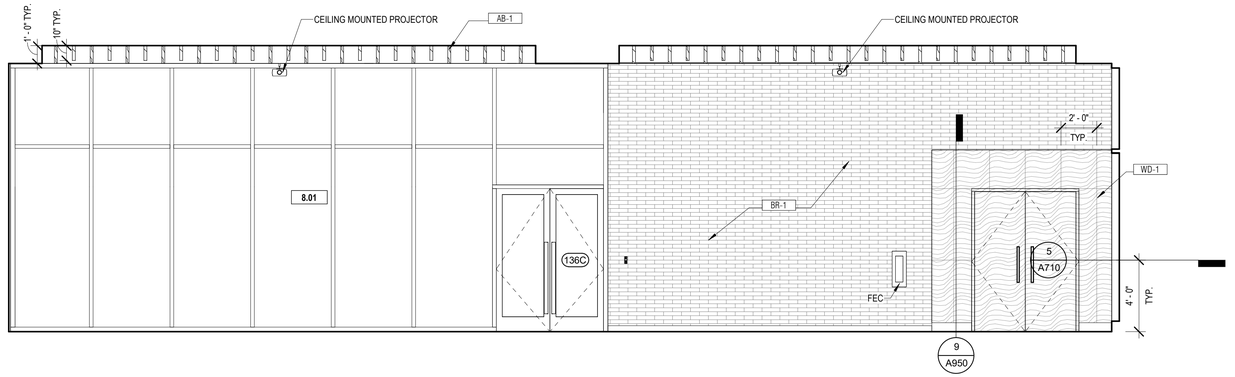
4 ASSEMBLY HALL 136 EAST ELEVATION
1/4" = 1'-0"



3 ASSEMBLY HALL 136 WEST ELEVATION
1/4" = 1'-0"



2 CHAIR STORAGE 141 SOUTH ELEVATION
1/4" = 1'-0"



1 ASSEMBLY HALL 136 NORTH ELEVATION
1/4" = 1'-0"

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
INTERIOR ELEVATIONS

Sheet
A602

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
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2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
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0'-0" 0'-6" 1'-0" 2'-0"
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0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
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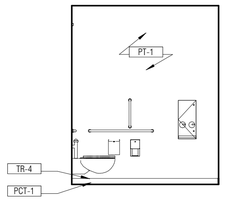
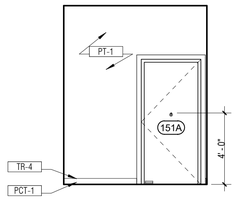
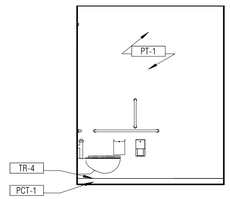


14 ALL GENDER RESTROOM 151B WEST ELEVATION
1/4" = 1'-0"



10 ALL GENDER RESTROOM SOUTH ELEVATION
1/4" = 1'-0"



9 ALL GENDER RESTROOM EAST ELEVATION
1/4" = 1'-0"

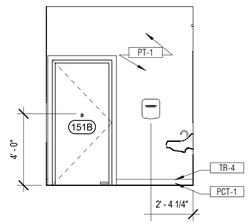
RESTROOM ACCESSORIES	
TAG	DESCRIPTION
A-01	18" VERTICAL GRAB BAR
A-02	42" HORIZONTAL GRAB BAR
A-03	36" HORIZONTAL GRAB BAR
A-04	TOILET TISSUE DISPENSER
A-05	SANITARY NAPKIN DISPOSAL
A-06	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
A-07	SOAP DISPENSER
A-08	ELECTRIC WALL-MOUNTED HAND DRYER WITH HEPA FILTER
A-09	6" DIA. GROMMET
A-10	WALL-MOUNTED MIRROR 24"X60"
A-11	BABY CHANGING STATION
A-12	FOOT DOOR PULL
A-13	COAT HOOK
A-14	PAPER TOWEL DISPENSER
A-15	SANITARY NAPKIN DISPENSER

CABINET TYPES

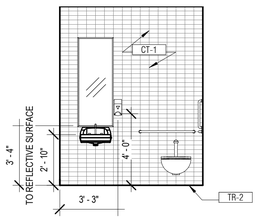
C1	PLAM BASE CABINET FILLER PANEL
C2	18"W X 34"H X 24"D PLAM ADA BASE CABINET W/ (1) DOOR, (1) DRAWER, (1) ADJUSTABLE SHELF, & (2) PULLS
C3	24"W X 34"H X 24"D PLAM ADA BASE CABINET W/ (1) DOOR, (1) DRAWER, (1) ADJUSTABLE SHELF, & (2) PULLS
C4	36"W X 34"H X 24"D PLAM ADA BASE CABINET W/ (2) DOORS, (2) DRAWERS, (1) ADJUSTABLE SHELF, & (4) PULLS
C5	36"W X 34"H X 24"D PLAM ADA SINK BASE CABINET W/ (2) DOORS, (2) PULLS, & INTEGRAL TOE KICK FOR WHEELCHAIR ACCESS
C6	48"W X 34"H X 24"D PLAM ADA SINK BASE CABINET W/ (2) DOORS, (2) PULLS, & INTEGRAL TOE KICK FOR WHEELCHAIR ACCESS
C7	PLAM WALL CABINET FILLER PANEL
C8	36"W X 15"H X 12"D PLAM WALL CABINET W/ (2) DOORS & (2) PULLS
C9	36"W X 30"H X 12"D PLAM WALL CABINET W/ (2) DOORS, (1) ADJUSTABLE SHELF, & (2) PULLS
C10	48"W X 15"H X 12"D PLAM WALL CABINET W/ (2) DOORS & (2) PULLS
C11	36"W X 34"H X 24"D PLAM ADA BASE CABINET W/ (2) DOORS, (2) DRAWERS, (1) ADJUSTABLE SHELF, & (4) PULLS, LOCKING
C12	36"W X 30"H X 12"D PLAM WALL CABINET W/ (2) DOORS, (1) ADJUSTABLE SHELF, & (2) PULLS, LOCKING
C13	36"W X 34"H X 24"D PLAM ADA BASE CABINET W/ (2) PULL-OUT DRAWERS FOR UNDERCOUNTER TRASH & (2) PULLS

KEYNOTES

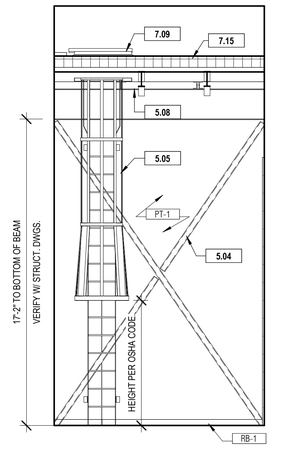
5.04	STEEL BRACING. SEE STRUCTURAL.
5.05	STEEL LADDER MOUNTED TO WALL WITH SAFETY CAGE. COORDINATE WITH STRUCTURE AND MEP FOR LADDER PLACEMENT CONNECTIONS TO WALL, ETC.
5.08	STEEL BEAM, SEE STRUCT. DWGS.
7.09	ROOF HATCH
7.15	SBS MODIFIED BITUMEN ROOFING SYSTEM, SEE SPEC FOR MORE INFORMATION.



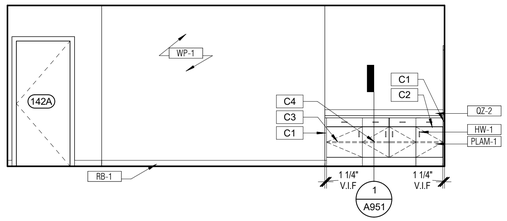
13 ALL GENDER RESTROOM 151B EAST ELEVATION
1/4" = 1'-0"



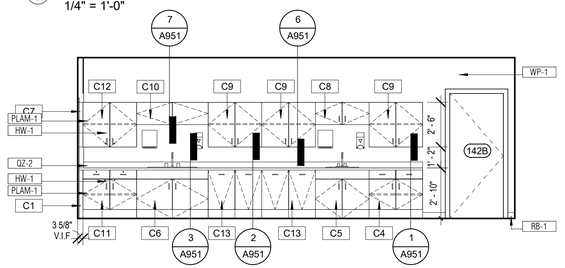
8 ALL GENDER RESTROOM NORTH ELEVATION
1/4" = 1'-0"



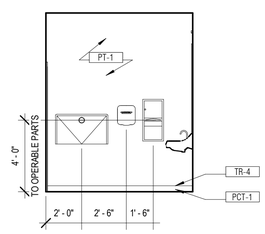
5 STORAGE SOUTH ELEVATION
1/4" = 1'-0"



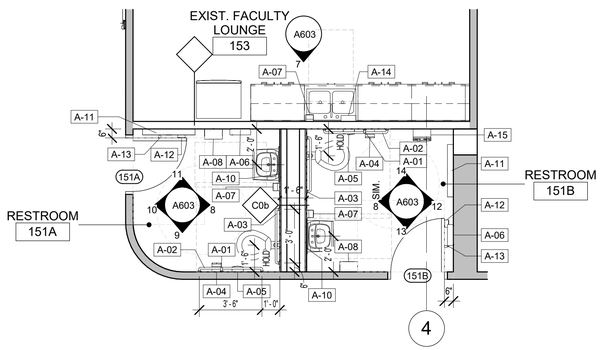
3 CATERING ROOM 142 EAST ELEVATION
1/4" = 1'-0"



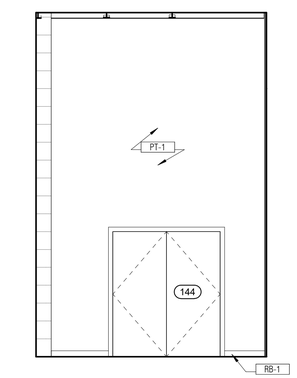
2 CATERING ROOM 142 WEST ELEVATION
1/4" = 1'-0"



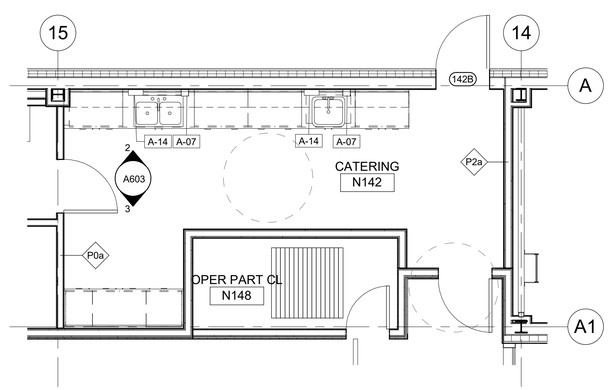
11 ALL GENDER RESTROOM WEST ELEVATION
1/4" = 1'-0"



7 FACULTY LOUNGE EAST ELEVATION
1/4" = 1'-0"



4 STORAGE NORTH ELEVATION
1/4" = 1'-0"



1 ENLARGED PLAN - CATERING ROOM
1/4" = 1'-0"

6 ENLARGED PLAN - NEW ALL GENDER
1/4" = 1'-0"

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ENLARGED PLANS & INTERIOR ELEVATIONS

Sheet
A603

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

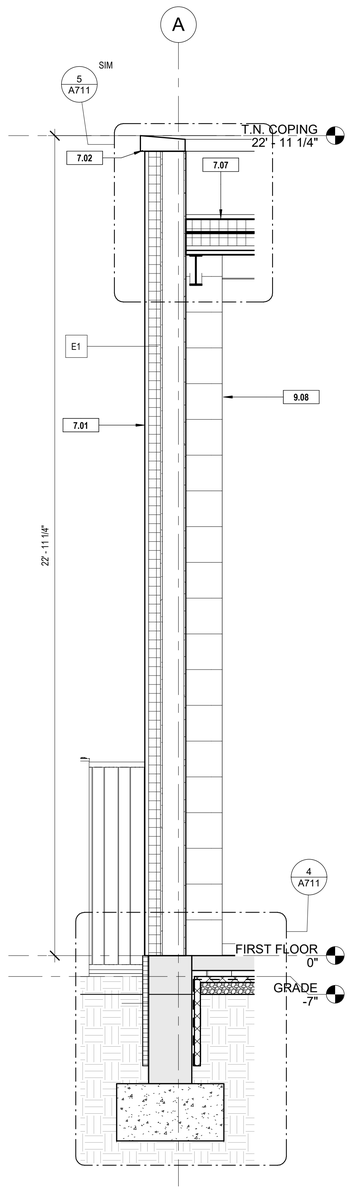
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

KEYNOTES

6.01	ACOUSTIC WOOD WALL PANELING. SEE SPECS.
7.01	ALUMINUM METAL PLATE WALL PANELS SEE SPECS.
7.02	KYNAR FINISH ALUMINUM COPING
7.07	SBS MODIFIED BITUMEN ROOFING SYSTEM OVER COVER BOARD, TAPERED INSULATION AND 6" RIGID INSULATION AT R-5 / INCH
7.16	POLYISO INSULATION
8.04	ALUMINUM SUNSHADE BY CURTAIN WALL MANUFACTURER, FINISH TO MATCH SEE DRAWINGS.
8.06	ALUMINUM CURTAINWALL SYSTEM
9.08	WALL TILE. SEE SPECS.



2 METAL PANEL WALL SYSTEM SECTION
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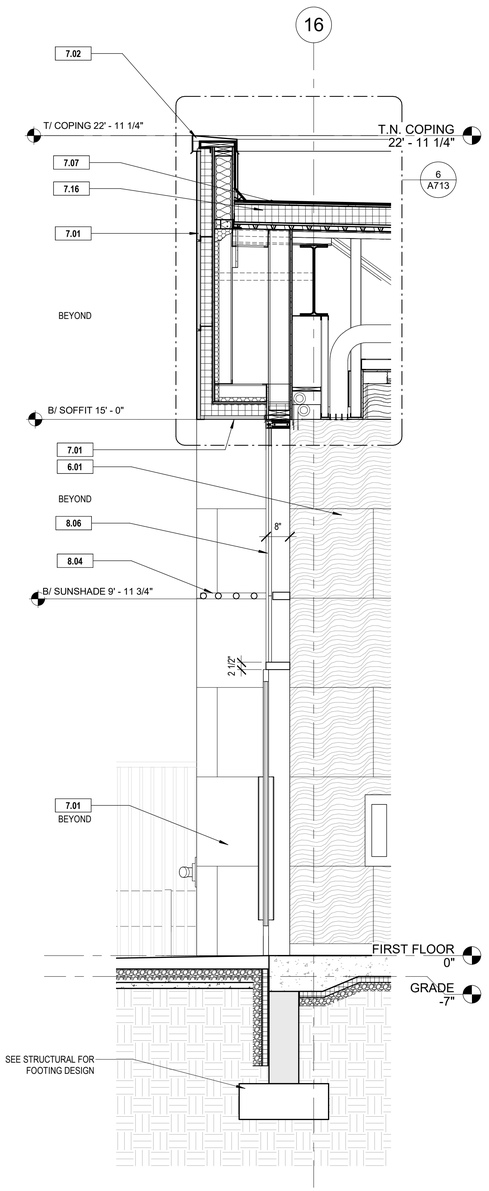

1 CURTAIN WALL SYSTEM SECTION
1/2" = 1'-0"

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
WALL SECTIONS

Sheet A700

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
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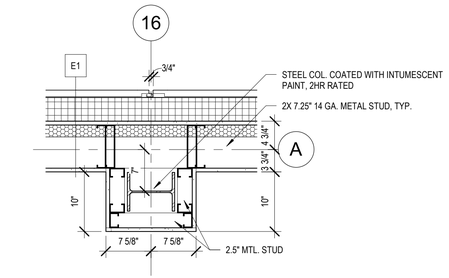
2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
1/2" = 1'-0"

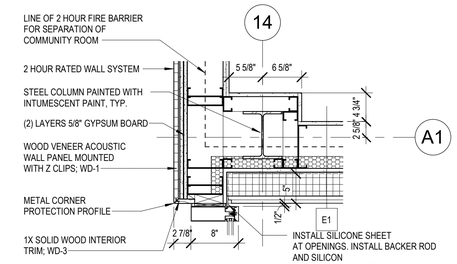
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

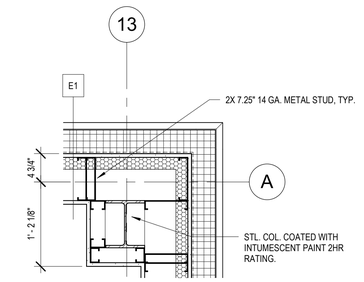
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



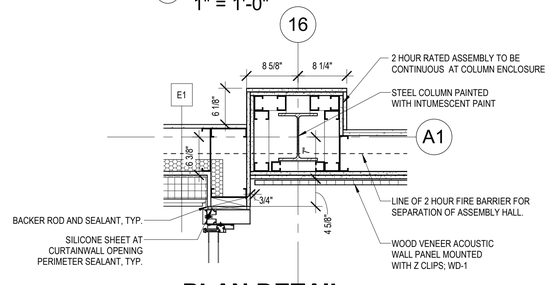
13 **PLAN DETAIL**
1" = 1'-0"



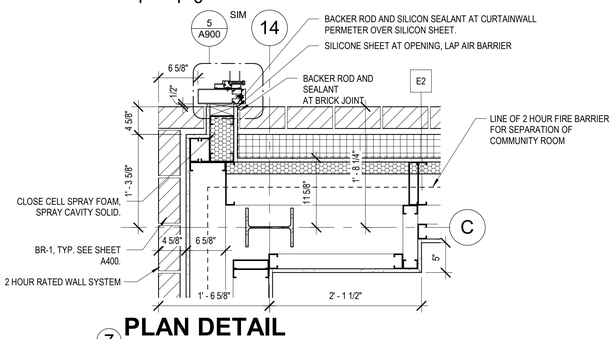
8 **PLAN DETAIL**
1" = 1'-0"



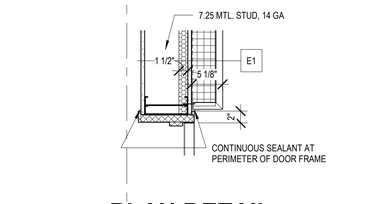
4 **PLAN DETAIL**
1" = 1'-0"



12 **PLAN DETAIL**
1" = 1'-0"



7 **PLAN DETAIL**
1" = 1'-0"



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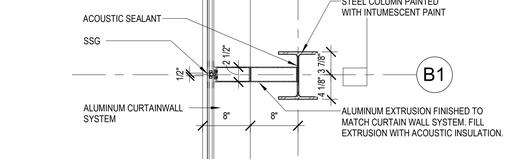
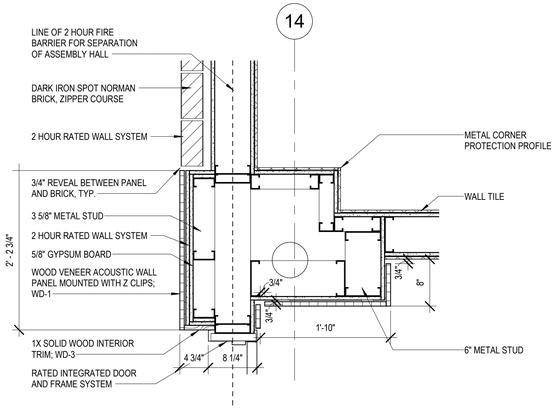
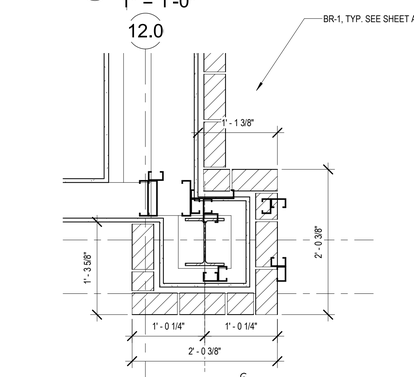
1" = 1'-0"



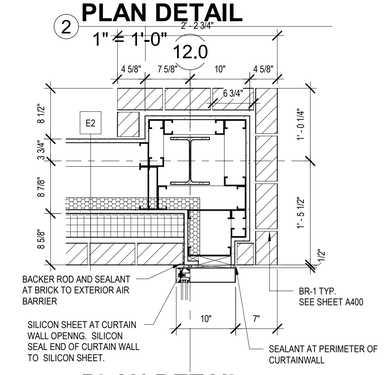
11 **PLAN DETAIL**
1" = 1'-0"



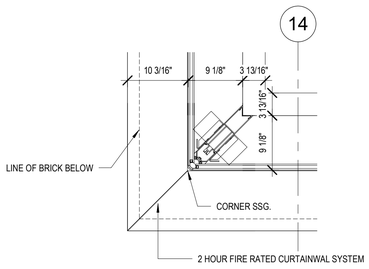
6 **PLAN DETAIL**
1" = 1'-0"



2 **PLAN DETAIL**
1" = 1'-0"



1 **PLAN DETAIL**
1" = 1'-0"



14 **PLAN DETAIL**
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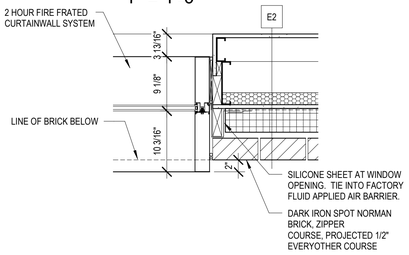
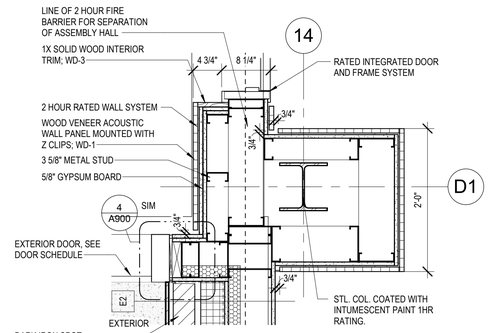


10 **PLAN DETAIL**
1" = 1'-0"

9 **PLAN DETAIL**
1" = 1'-0"



5 **PLAN DETAIL**
1" = 1'-0"

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXTERIOR PLAN DETAILS

Sheet A710

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
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2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
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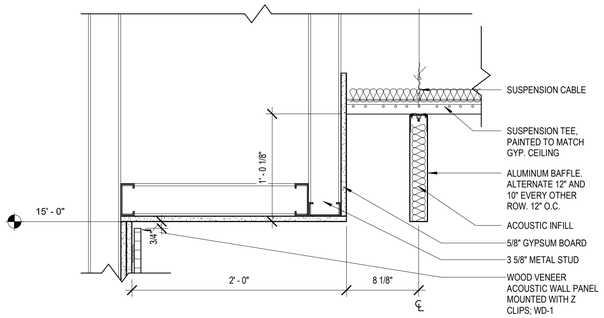
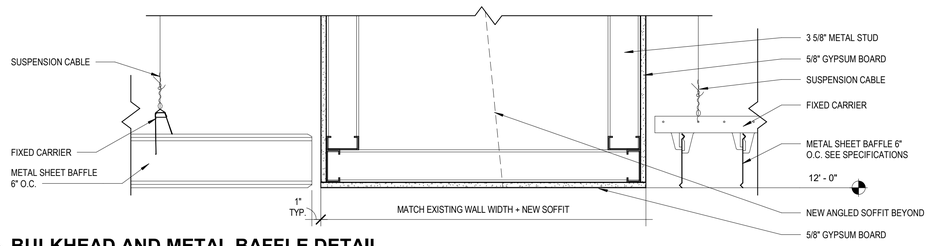
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

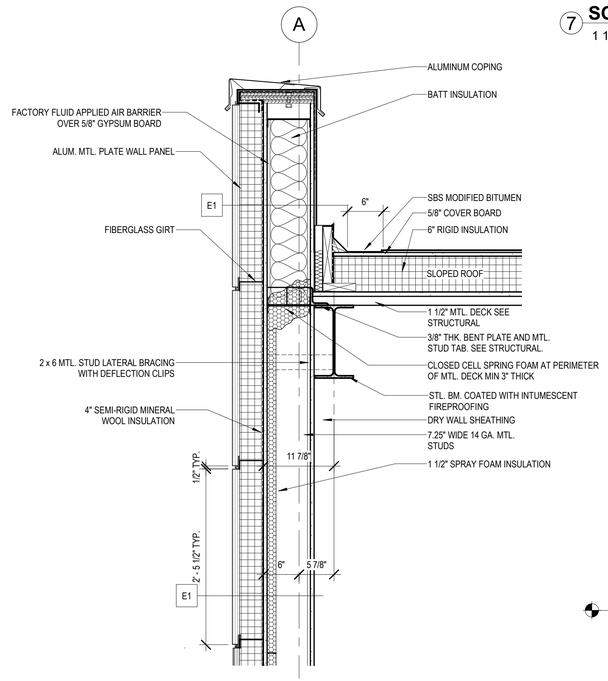
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



7 SOFFIT AND BAFFLE DETAIL
1 1/2" = 1'-0"



6 BULKHEAD AND METAL BAFFLE DETAIL
1 1/2" = 1'-0"



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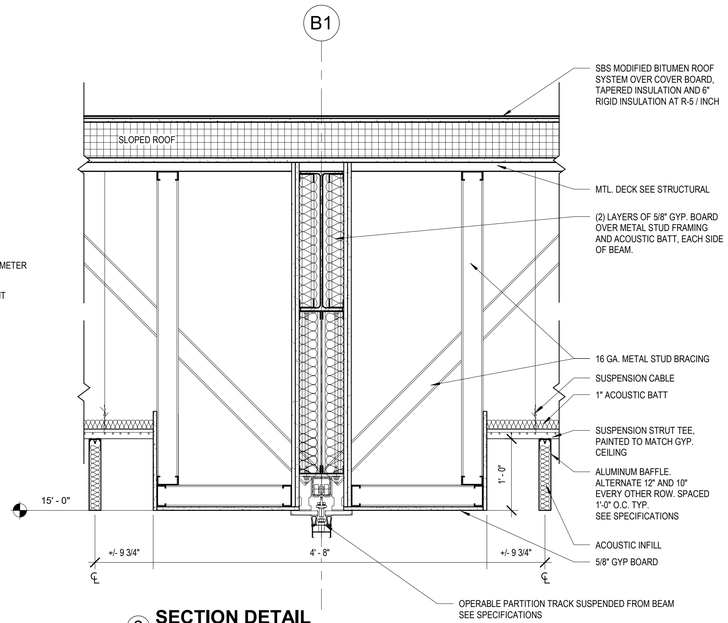

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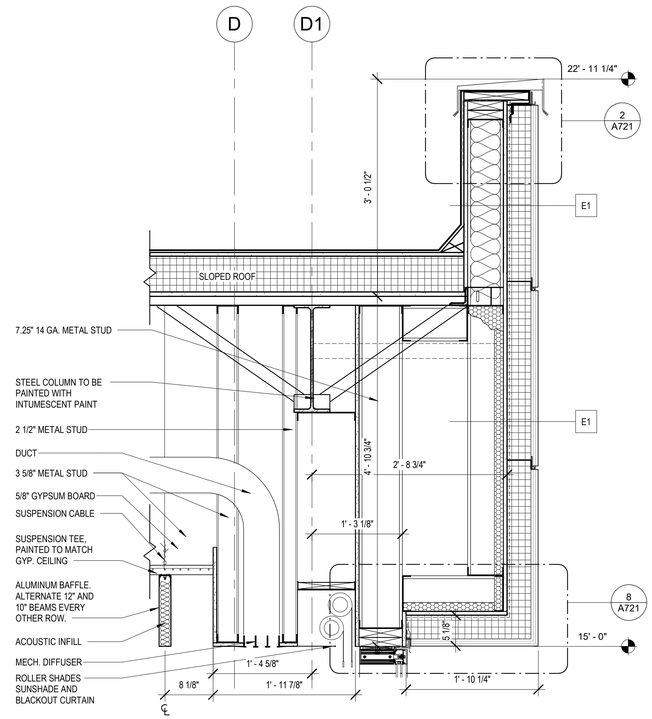

2 SECTION DETAIL
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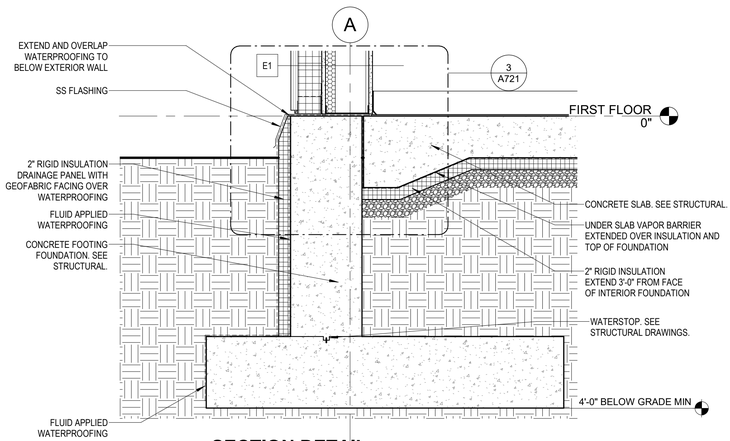

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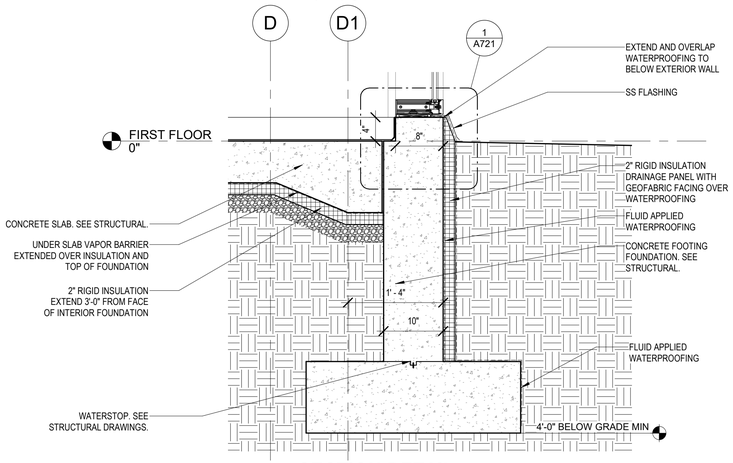

1 SECTION DETAIL
1" = 1'-0"

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PBC Project Name:
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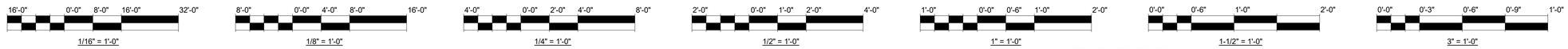
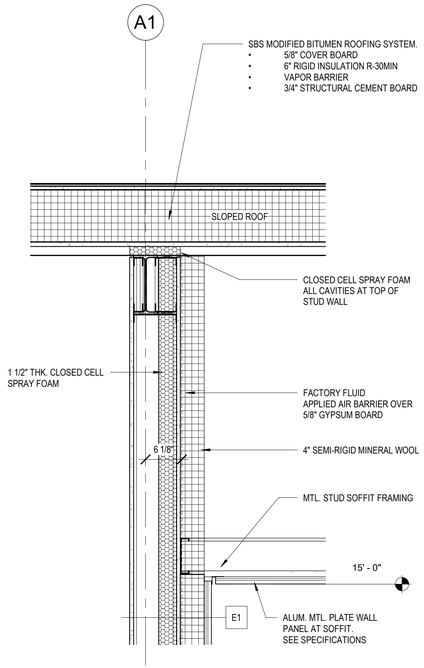
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXTERIOR DETAILS

Sheet A711





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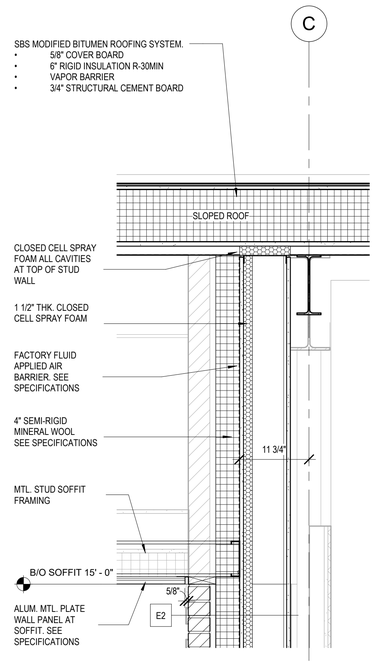
1" = 1'-0"



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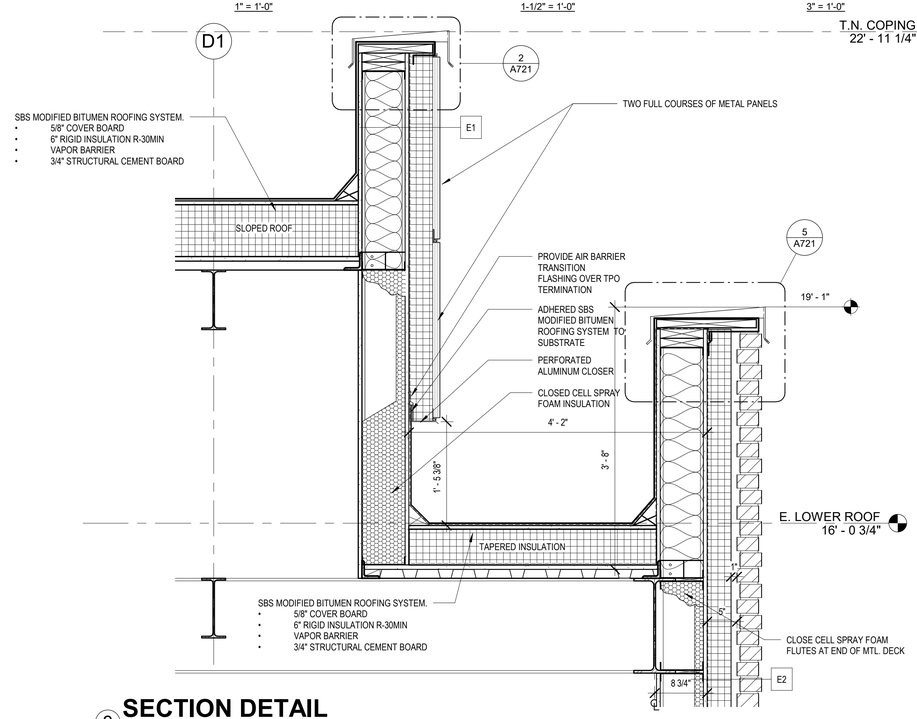

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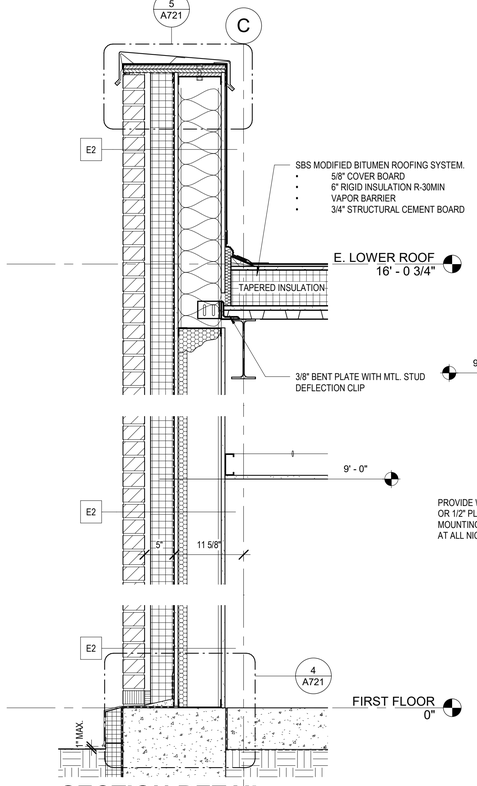

6 SECTION DETAIL
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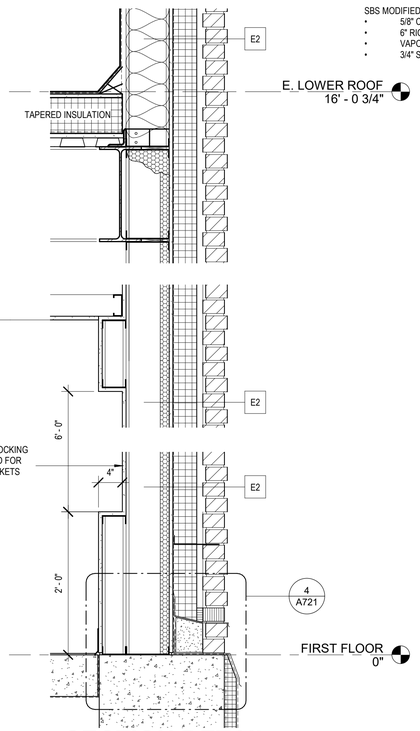
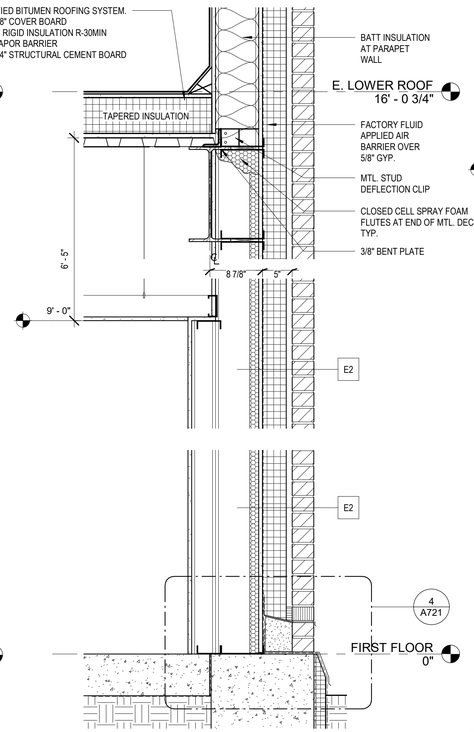


4 SECTION DETAIL
1" = 1'-0"



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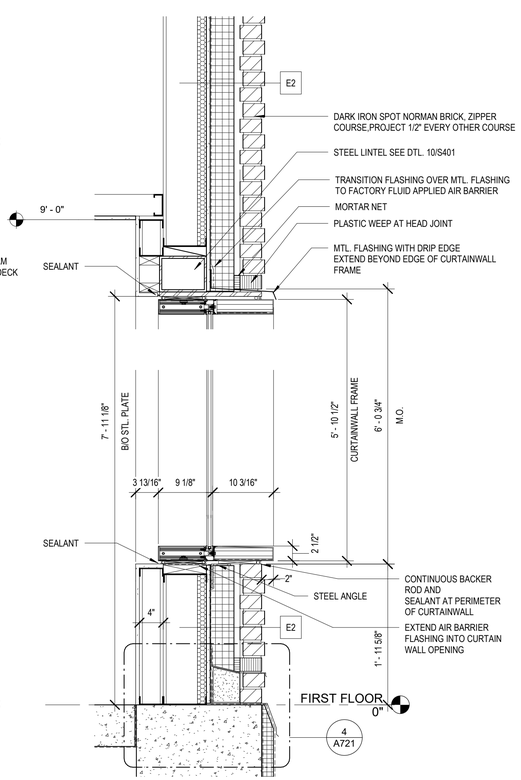

1 SECTION DETAIL
1" = 1'-0"

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WSLC ADDITION & RENOVATIONS

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXTERIOR DETAILS

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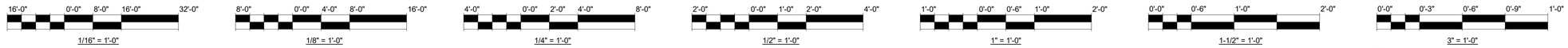

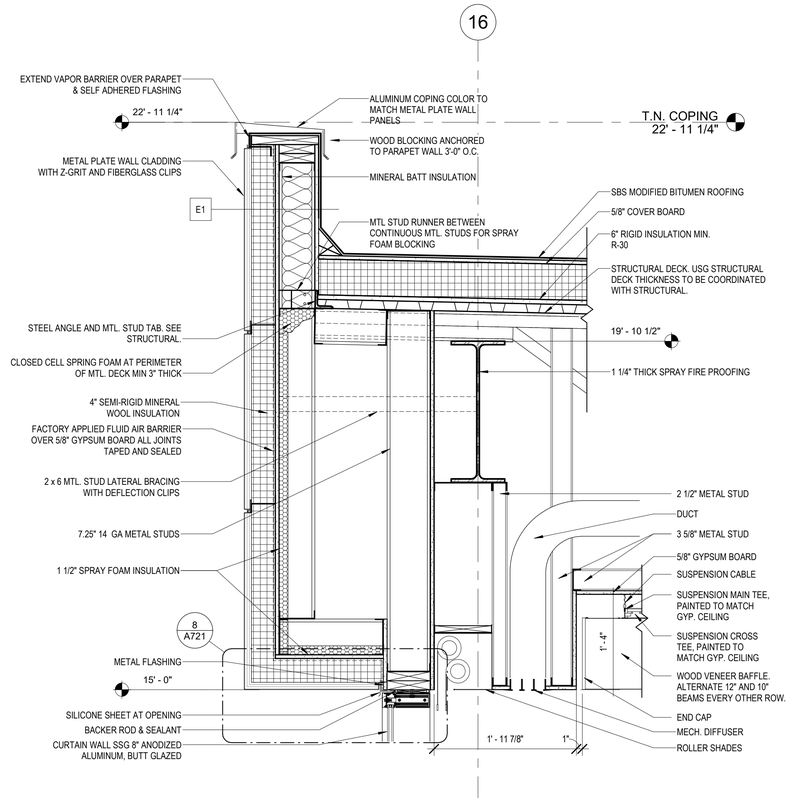

6 PARAPET DETAIL AT ASSEMBLY HALL SOUTH WALL
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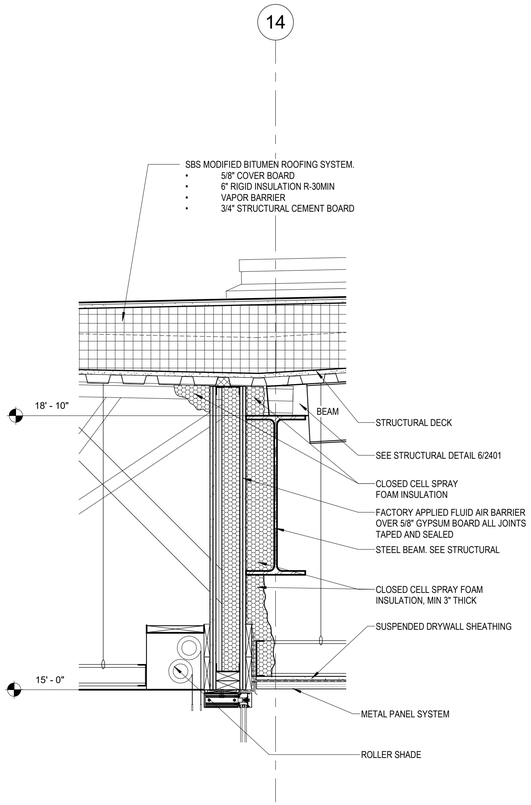

4 SECTION DETAIL AT ASSEMBLY HALL NORTH WALL
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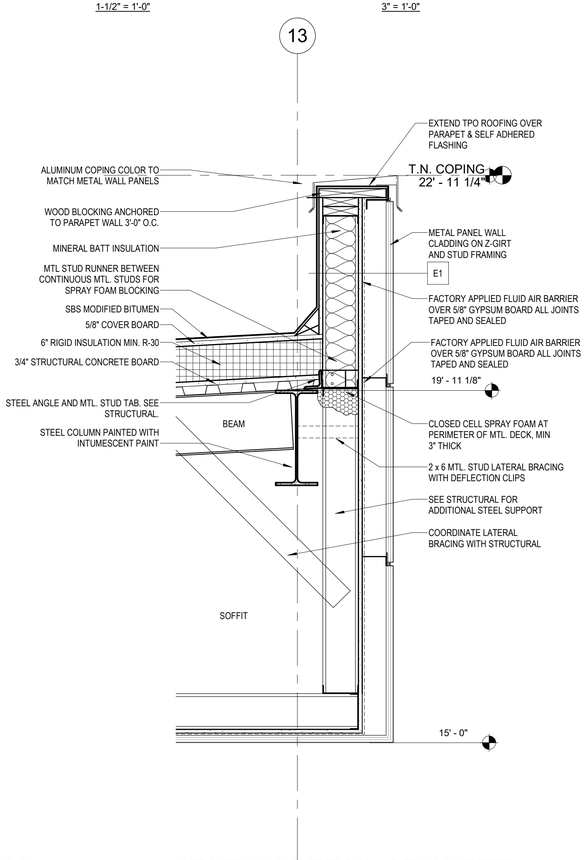

2 SECTION DETAIL AT SOFFIT
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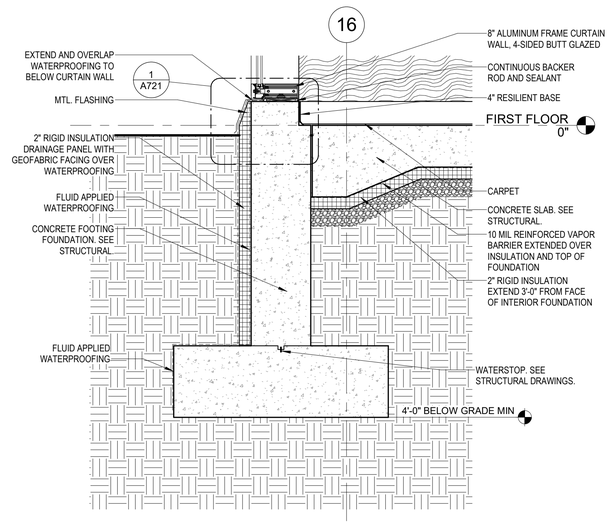

7 SECTION DETAIL
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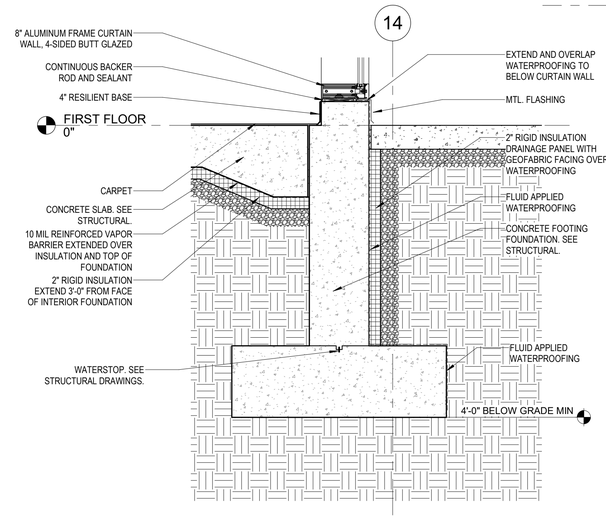

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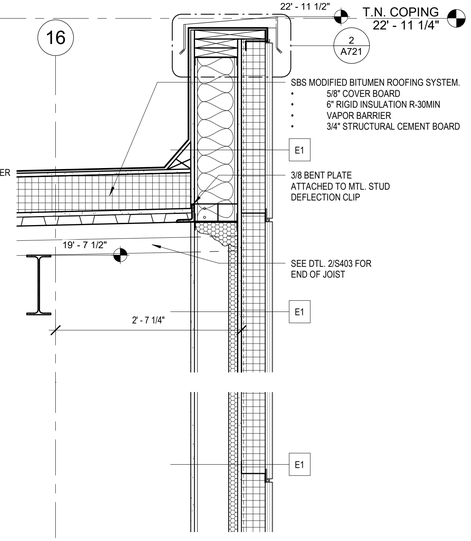

1 PARAPET DETAIL
1" = 1'-0"

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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXTERIOR DETAILS

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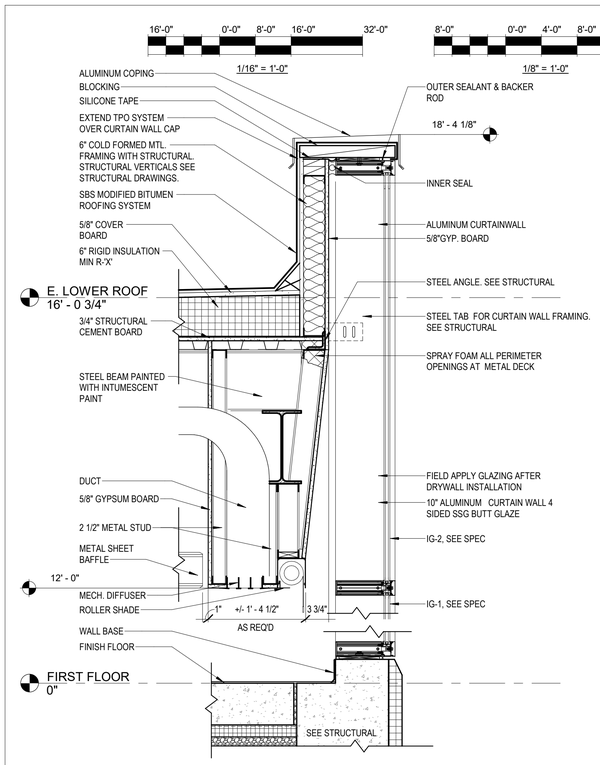
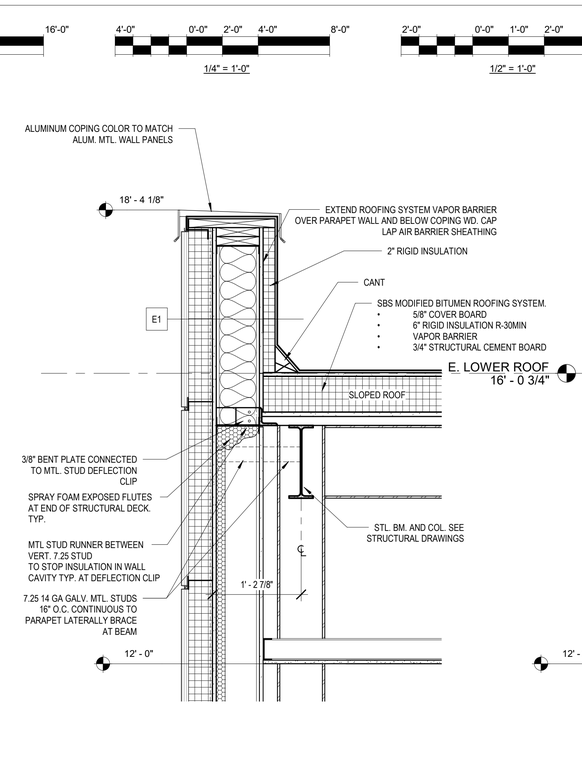


8 **SECTION DETAIL**
1" = 1'-0"



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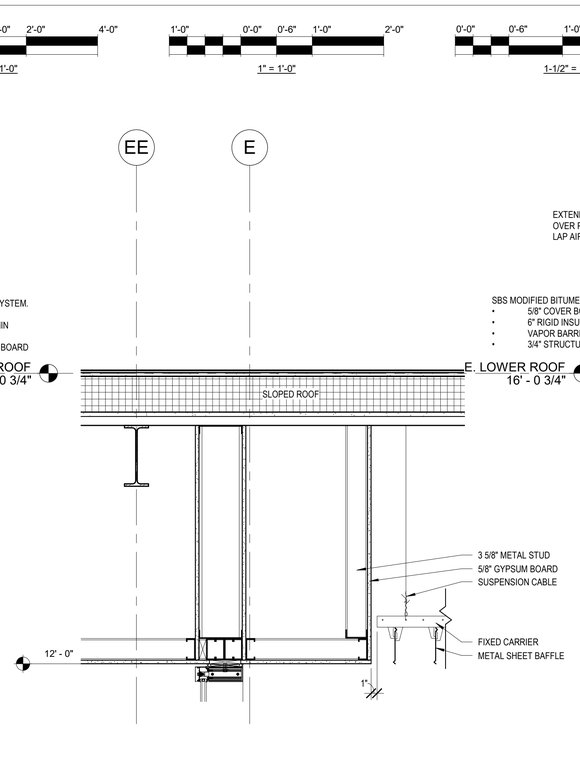

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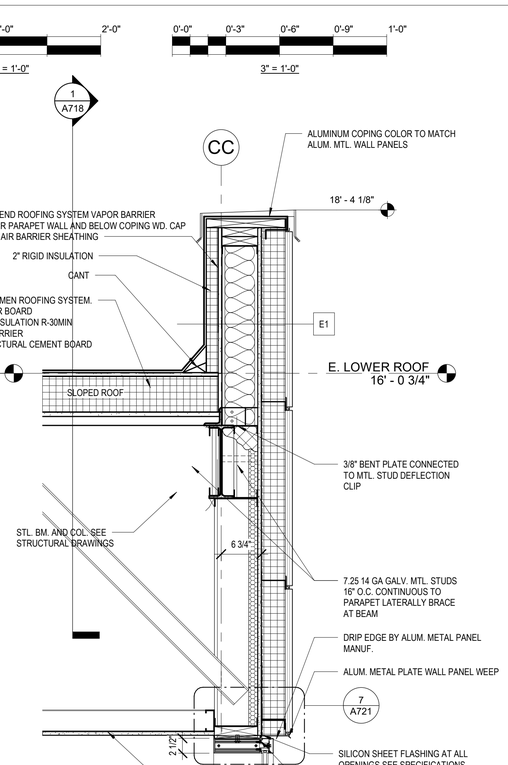

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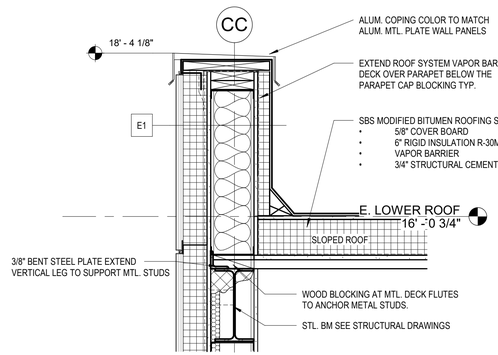

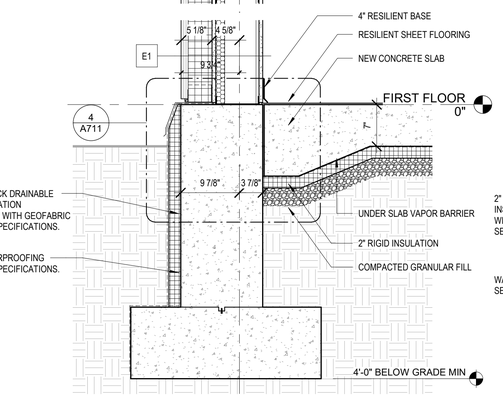

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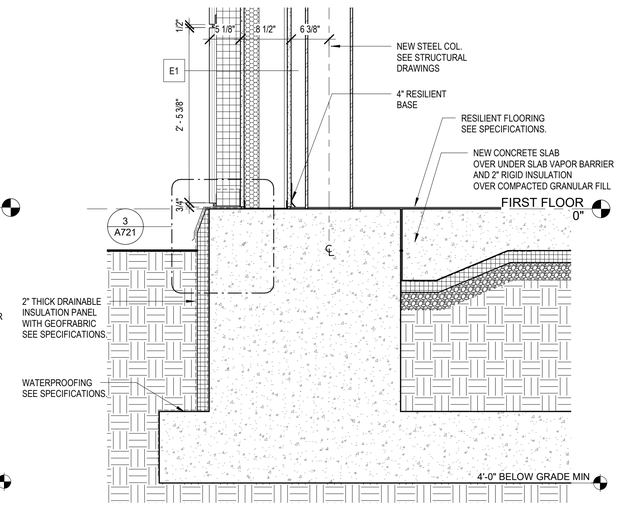
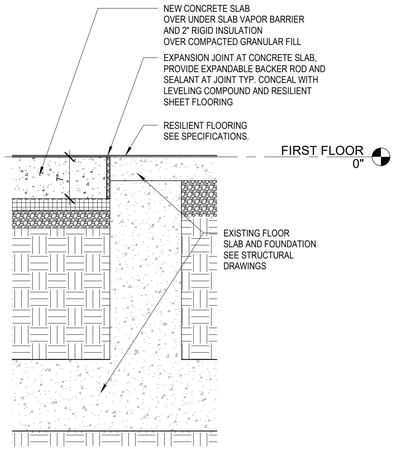


5 **SECTION DETAIL**
1" = 1'-0"



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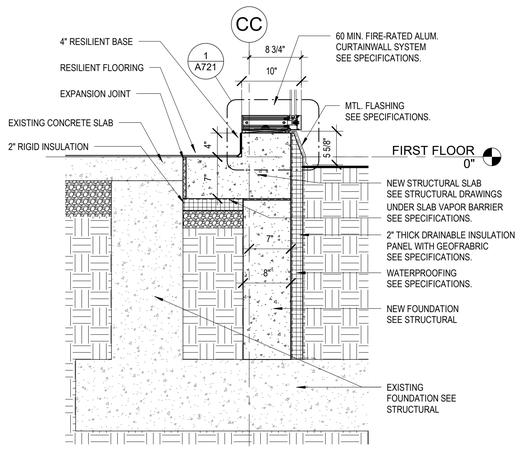

1 **SECTION DETAIL**
1" = 1'-0"

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
EXTERIOR DETAILS

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16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

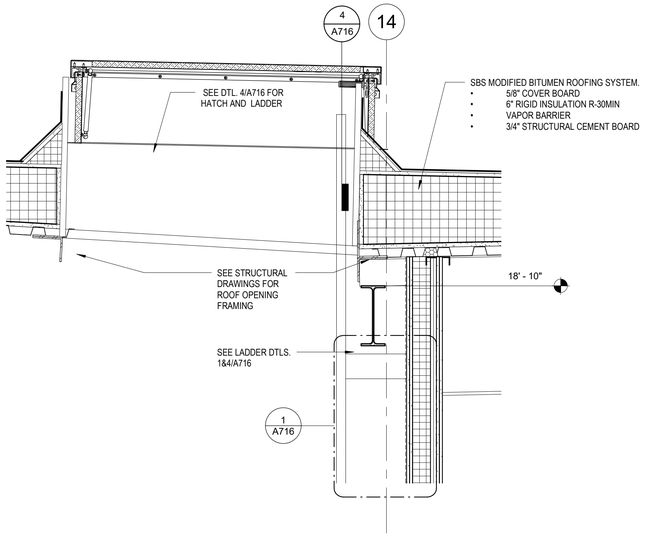
4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



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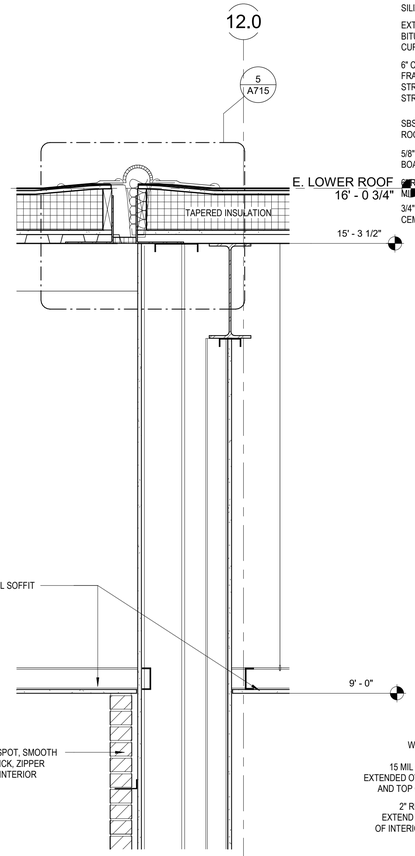

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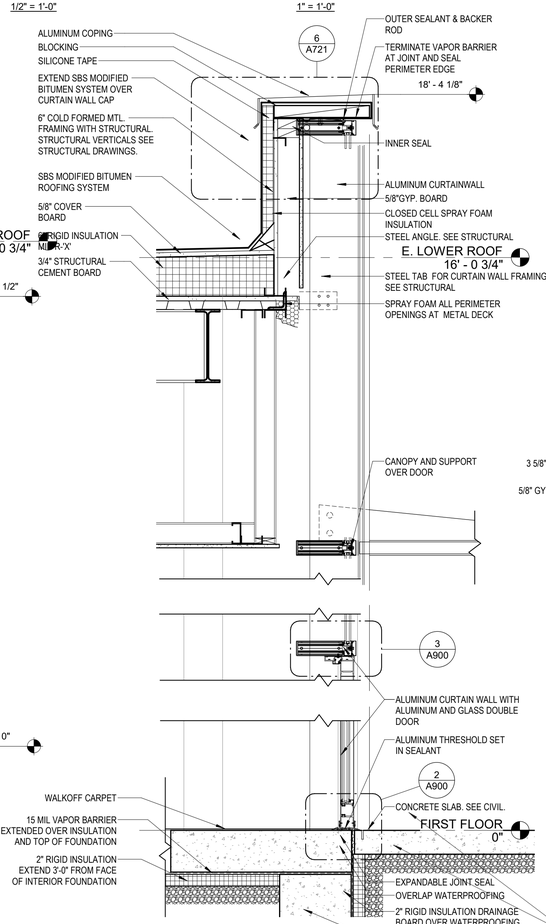
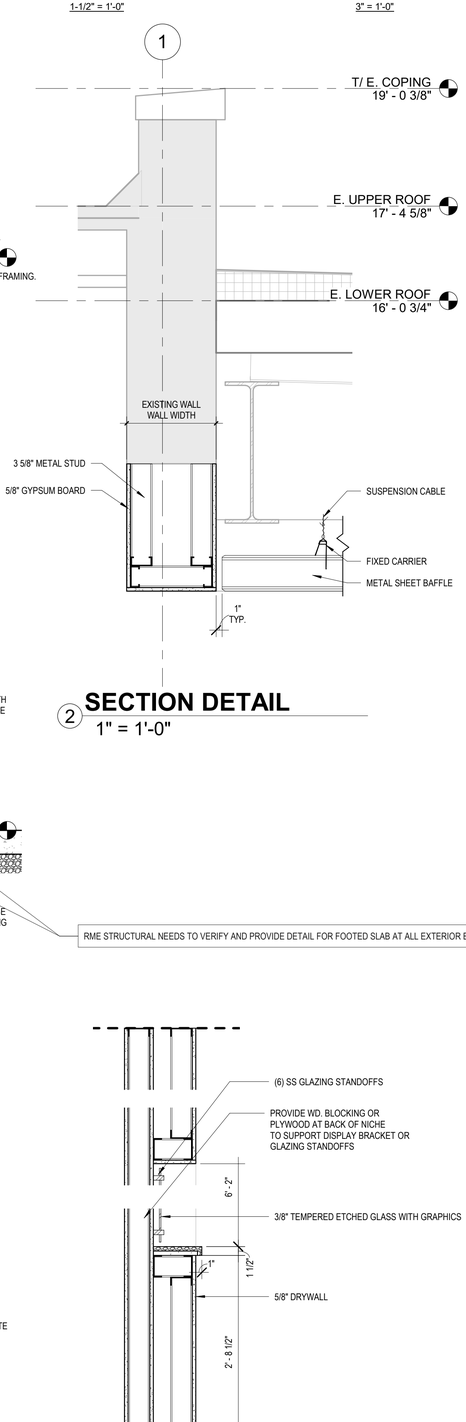


4 SECTION DETAIL
1" = 1'-0"

RME STRUCTURAL NEEDS TO VERIFY AND PROVIDE DETAIL FOR FOOTED SLAB AT ALL EXTERIOR ENTRANCES



2 SECTION DETAIL
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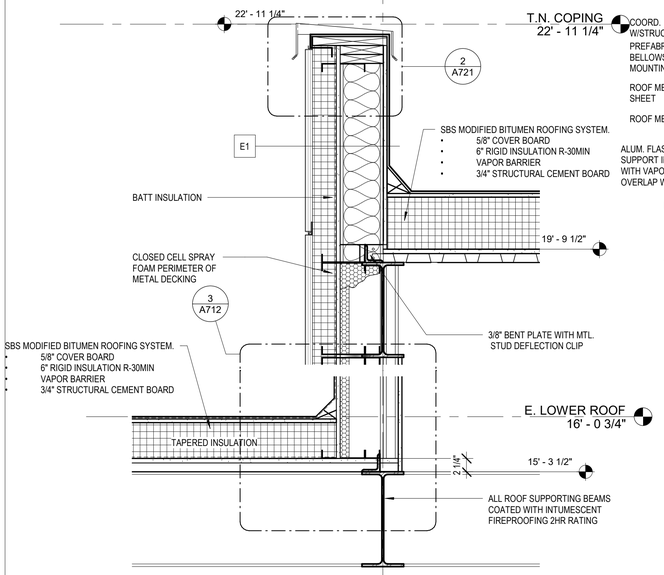

7 SECTION DETAIL
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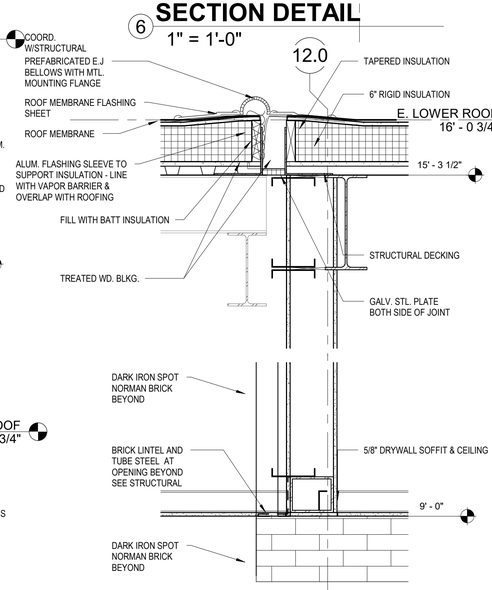
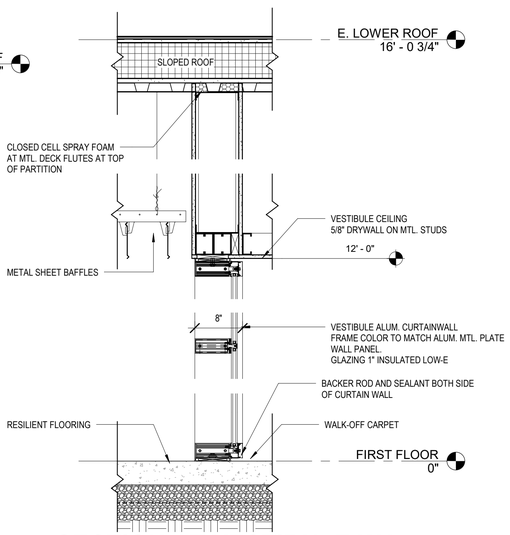
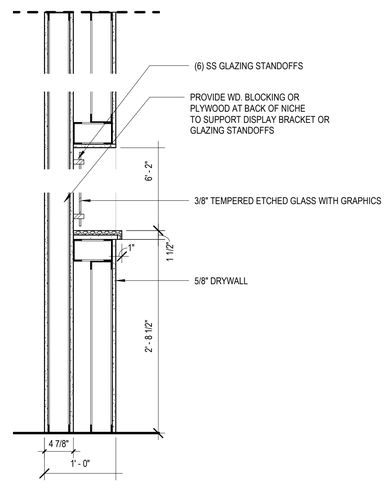


5 EXPANSION JOINT DETAIL
1" = 1'-0"



3 SECTION AT VESTIBULE WALL
1" = 1'-0"



1 KIOSK NICHE DETAIL
1" = 1'-0"

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Title
DETAILS

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16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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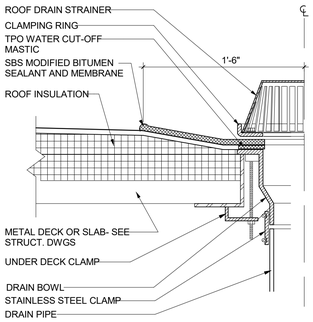
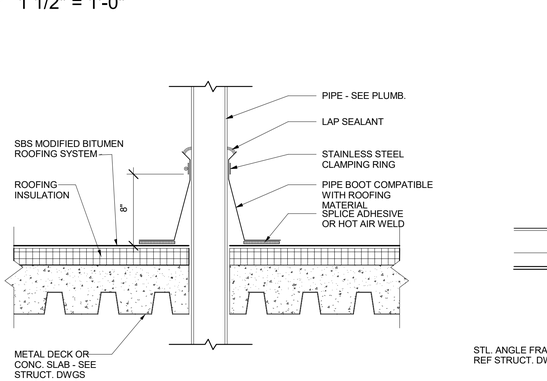
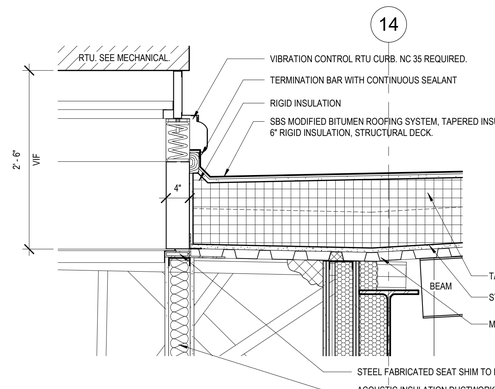
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



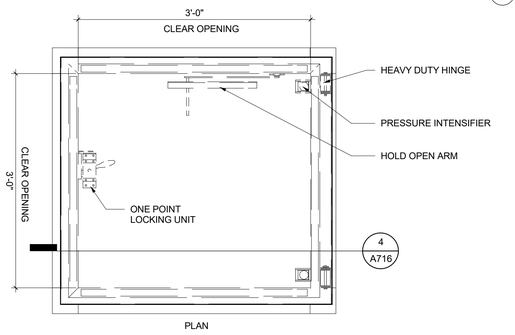
8 ROOF DETAIL - DRAIN
1 1/2" = 1'-0"



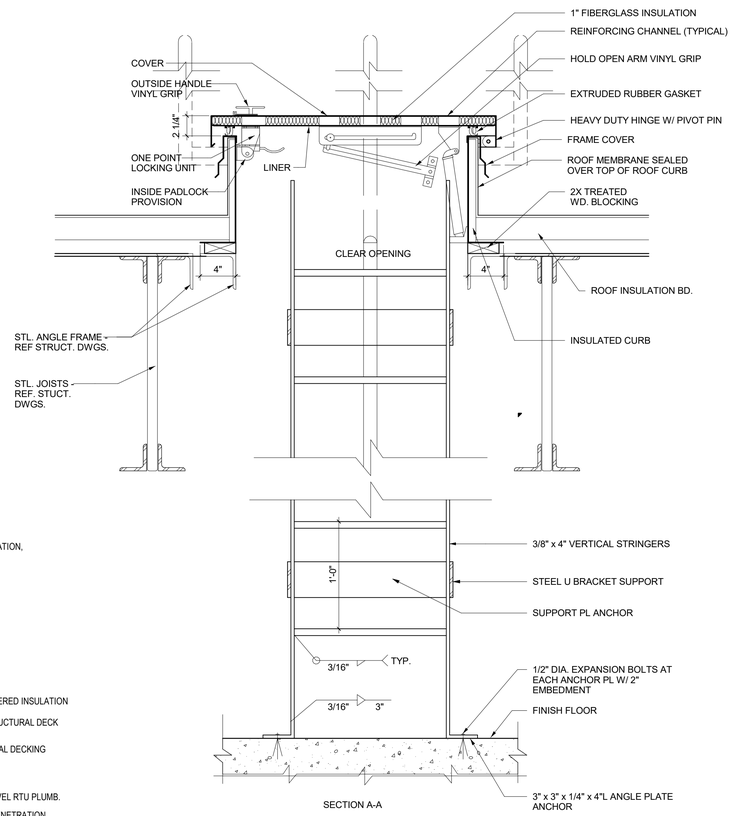
7 ROOF DETAIL - PENETRATION
1 1/2" = 1'-0"



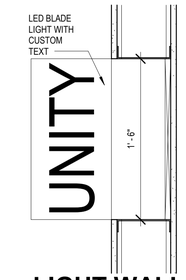
6 DOAS CURB DETAIL
1" = 1'-0"



5 HATCH DETAIL - TOP
1 1/2" = 1'-0"

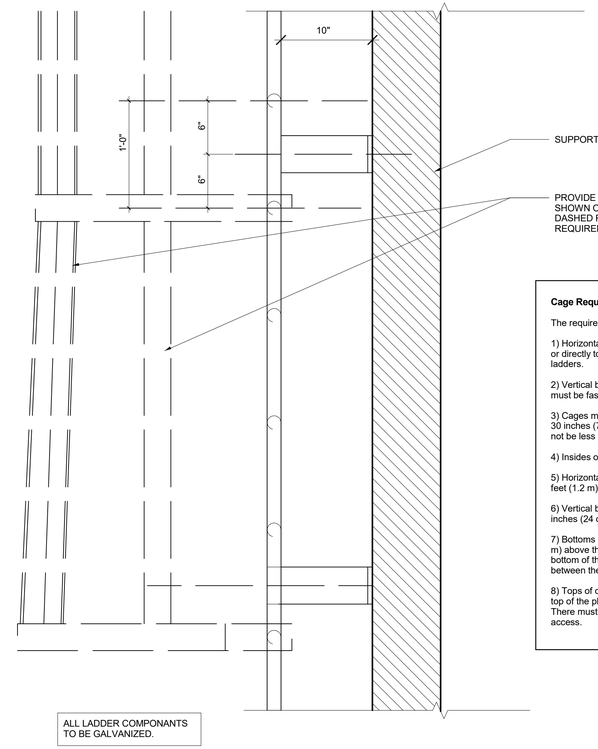


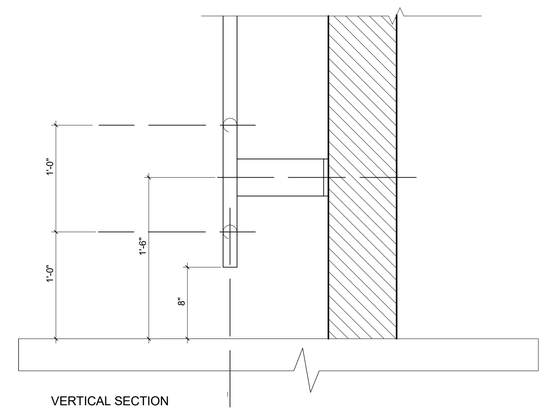
4 HATCH AND LADDER DETAIL - FRONT
1 1/2" = 1'-0"



3 LIGHT WALL PLAN
1 1/2" = 1'-0"

2 LIGHT WALL SECTION
1 1/2" = 1'-0"





1 LADDER DETAIL - SIDE
1 1/2" = 1'-0"

Cage Requirements for Fixed Ladders

The requirements for cages for fixed ladders are as follows:

1) Horizontal bands must be fastened to the side rails of rail ladders or directly to the structure, building or equipment for individual-rung ladders.

2) Vertical bars must be on the inside of the horizontal bands and must be fastened to them.

3) Cages must not extend less than 27 inches (68 cm), or more than 30 inches (76 cm) from the centerline of the step or rung and must not be less than 27 inches (68 cm) wide.

4) Insides of cages must be clear of projections.

5) Horizontal bands must be spaced at intervals not more than 4 feet (1.2 m) apart measured from centerline to centerline.

6) Vertical bars must be spaced at intervals not more than 9.5 inches (24 cm), measured centerline to centerline.

7) Bottoms of cages must be between 7 feet (2.1 m) and 8 feet (2.4 m) above the point of access to the bottom of the ladder. The bottom of the cage must be flared not less than 4 inches (10 cm) between the bottom horizontal band and the next higher band.

8) Tops of cages must be a minimum of 42 inches(1.1 m) above the top of the platform or thepoint of access at the top of the ladder. There must be a way to access the platform or other point of access.

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Sheet
A716

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

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

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

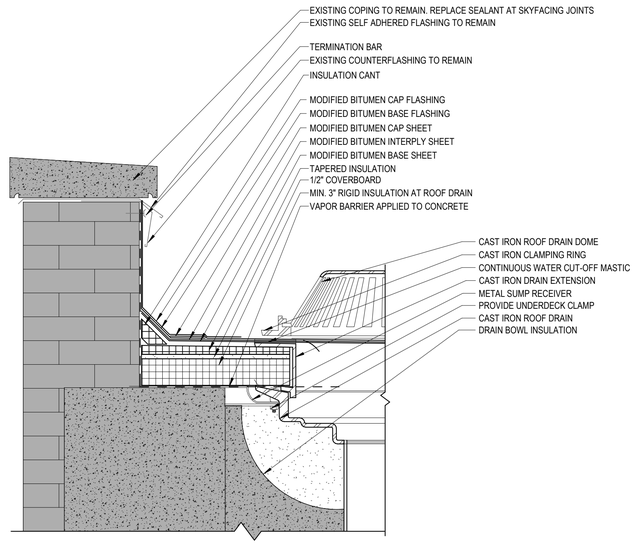
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

ROOF ASSEMBLY GENERAL NOTES

1. TAPERED INSULATION AND COVERBOARD LOCATION TO BE CONFIRMED WITH MANUFACTURER'S DETAIL AND REP.

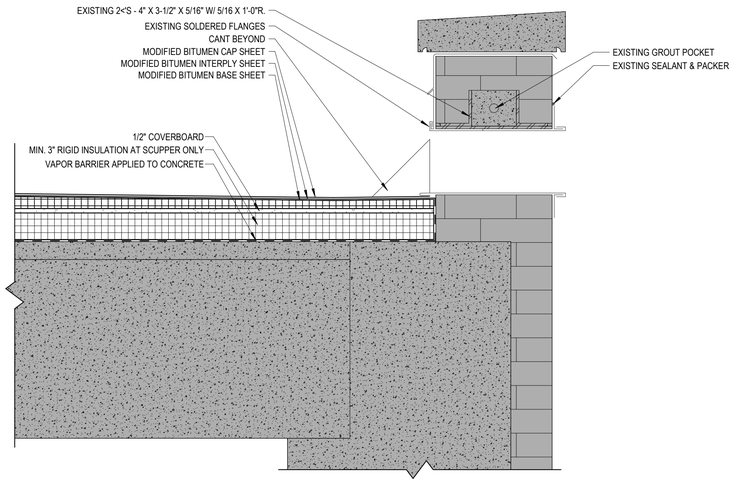
ROOF ASSEMBLY LEGEND

EXISTING BUILDING ENVELOPE AND STRUCTURE TO REMAIN

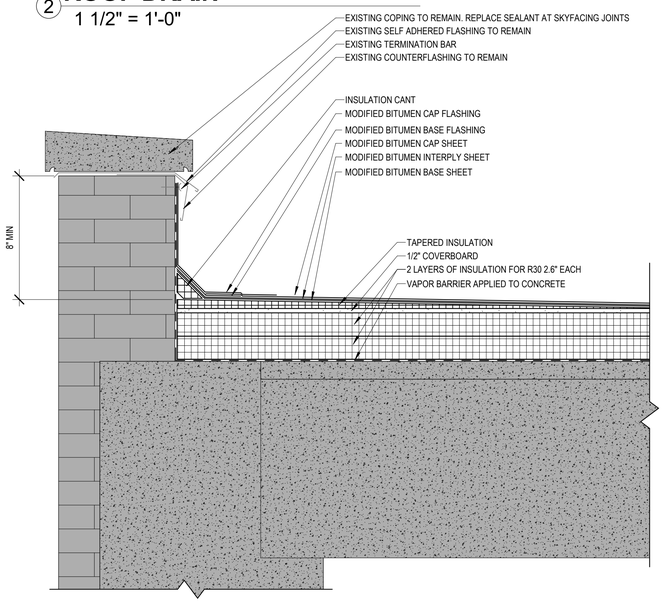


NOTES:
1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION AND INSERT UNDER DRAIN EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH WITH TOP OF BASE INSULATION.
2. CUT TOP INSULATION LAYER PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT BEVEL.
3. INSTALL 30" X 30", 4LBS LEAD FLASHING AT DRAIN. PRIME AND DRY BOTH SIDES PRIOR TO INSTALLATION IN ROOFING MASTIC.
4. REFER TO PLUMBING FOR SCOPE OF RISER REPLACEMENT.
5. SIM CONDITION: INSTALL NEW MODIFIED BITUMEN ROOF SYSTEM FLASHING AT EXISTING ROOF DRAIN ASSEMBLY

2 ROOF DRAIN
1 1/2" = 1'-0"



3 SCUPPER DETAIL
1 1/2" = 1'-0"



1 ROOF SYSTEM DETAIL
1 1/2" = 1'-0"

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Issuance

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
DETAILS

Sheet
A717

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
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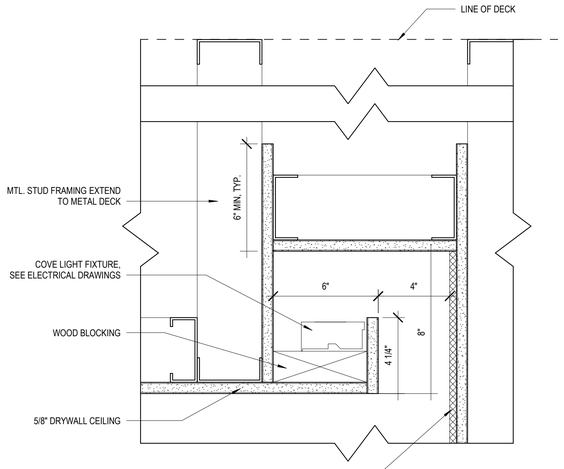
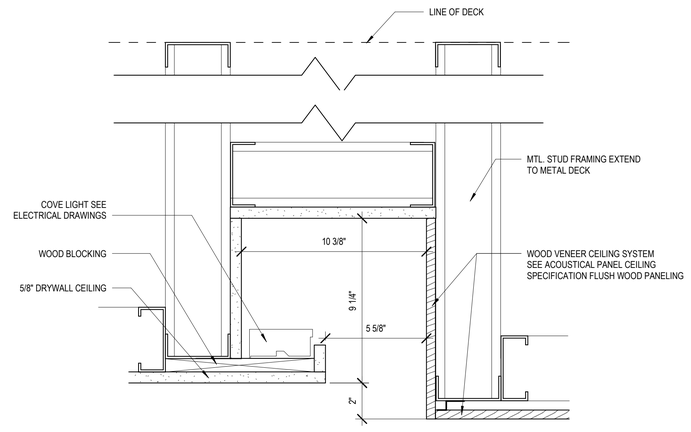
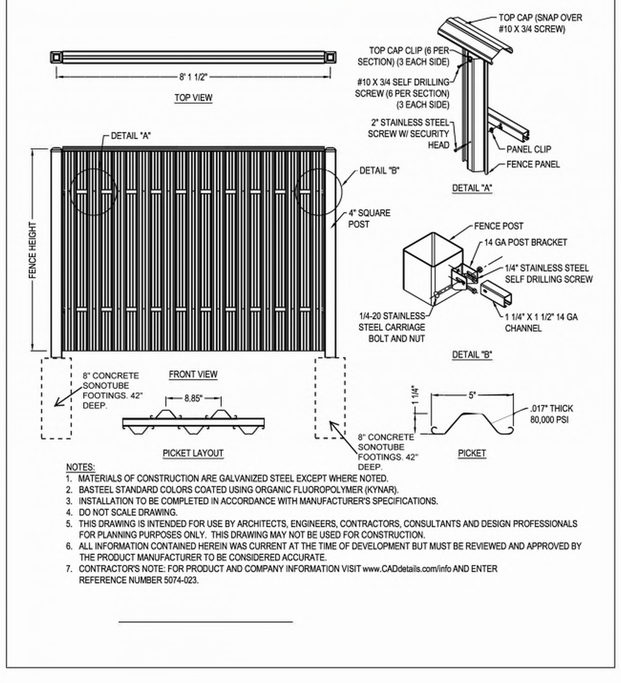


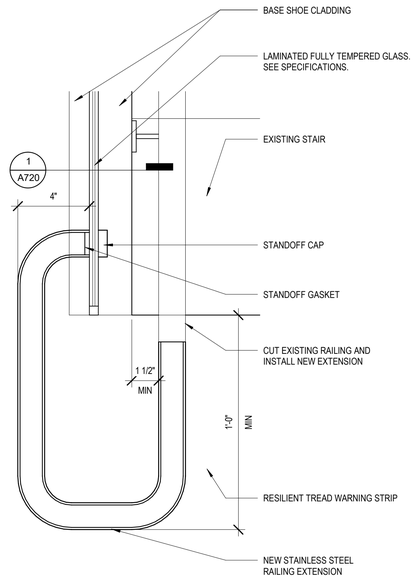
6 COVE LIGHT @ TOILET ROOMS
3" = 1'-0"



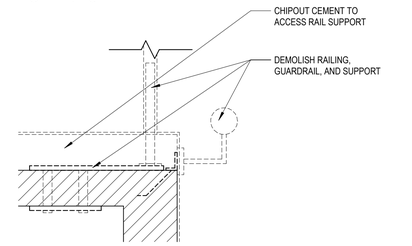
3 COVE LIGHT @ WOOD VENEER CEILING
3" = 1'-0"



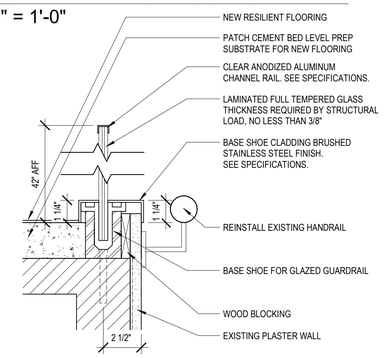
5 FENCE



4 RAILING EXTENSION AT GLASS GUARDRAIL
3" = 1'-0"



2 GLASS GUARDRAIL DEMO
3" = 1'-0"



1 GLASS GUARDRAIL
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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ENLARGED DETAILS

Sheet
A720

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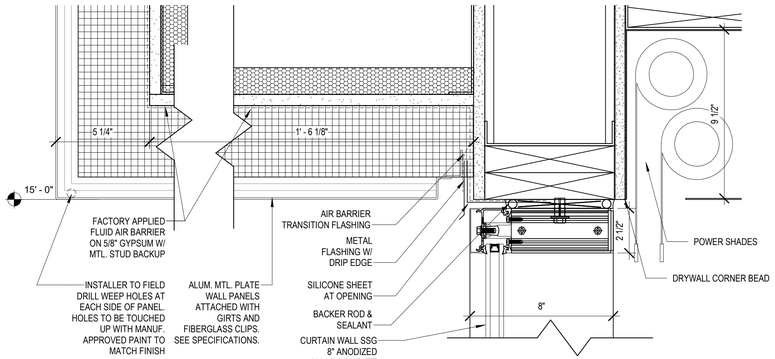
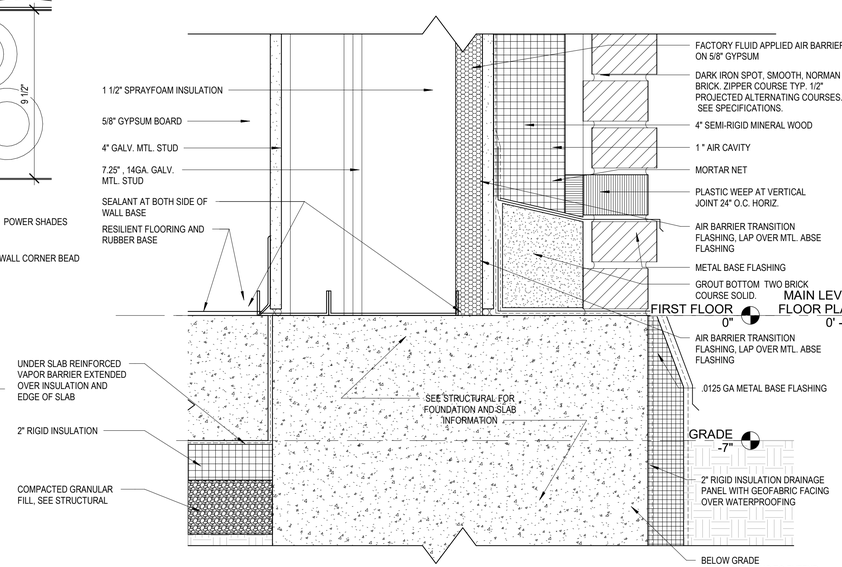
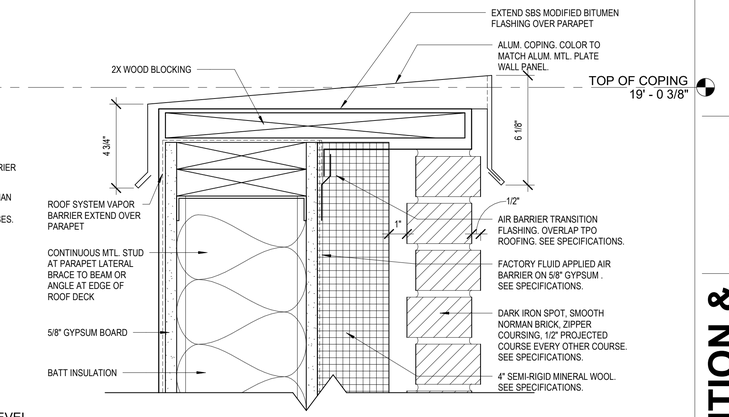


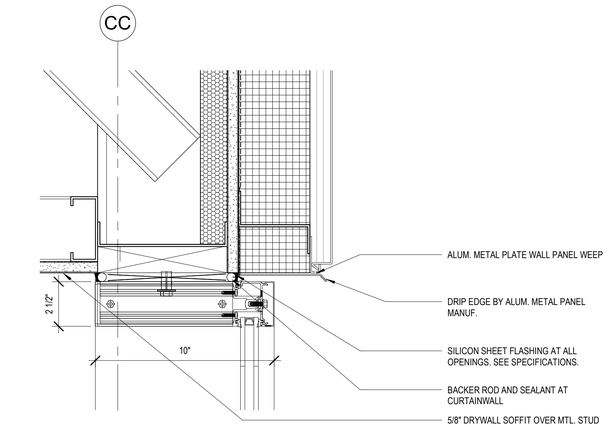
8 SOFFIT DETAIL
3" = 1'-0"



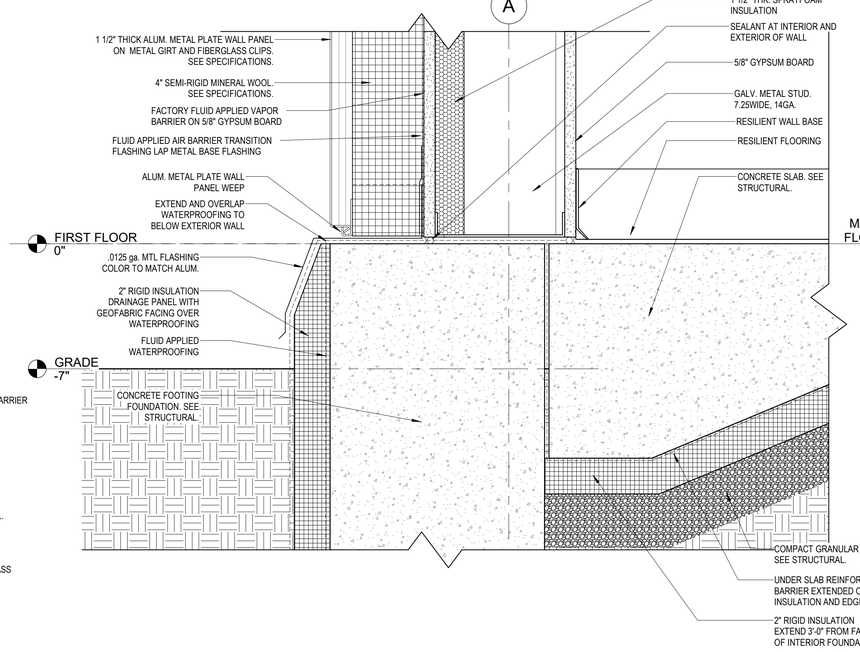
4 SECTION DETAIL BASE FLASHING AT BRICK
3" = 1'-0"



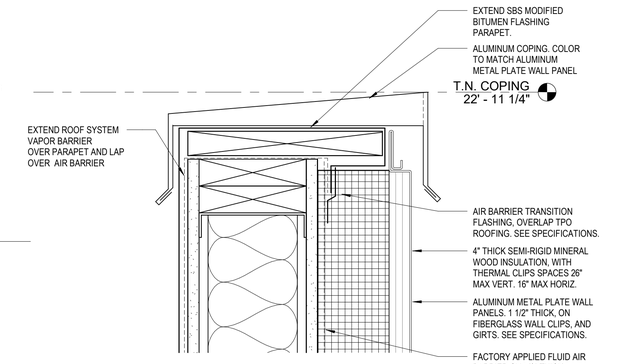
5 SECTION DETAIL - TYPICAL PARAPET AT BRICK
3" = 1'-0"



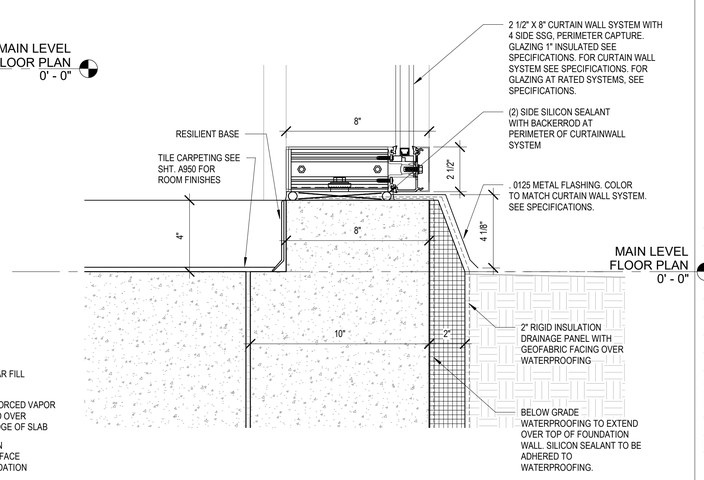
7 SECTION DETAIL
3" = 1'-0"



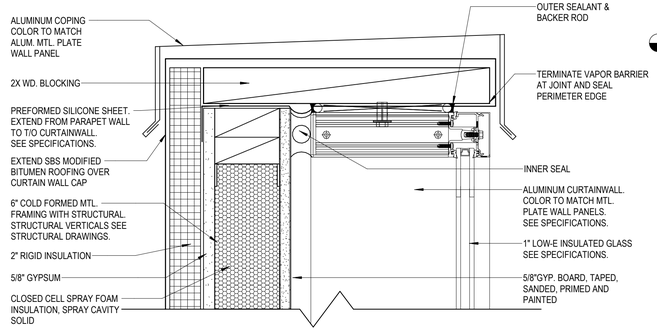
3 SECTION DETAIL BASE FLASHING AT METAL WALL PANEL
3" = 1'-0"



2 TYPICAL PARAPET AT METAL WALL PANEL
3" = 1'-0"



1 SECTION DETAIL BASE FLASHING AT CURTAINWALL
3" = 1'-0"



6 SECTION DETAIL AT CURTAINWALL PARAPET
3" = 1'-0"

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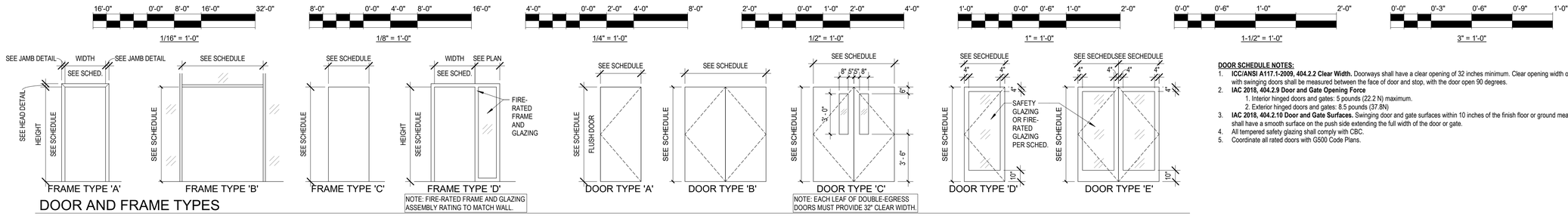
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ENLARGED EXTERIOR WALL DETAILS

Sheet A721



DOOR AND FRAME TYPES

DOOR SCHEDULE NOTES:

1. **ICC/ANSI A117.1-2009, 404.2.2 Clear Width.** Doorways shall have a clear opening of 32 inches minimum. Clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees.
2. **IAC 2018, 404.2.9 Door and Gate Opening Force**
   1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
   2. Exterior hinged doors and gates: 8.5 pounds (37.8N)
3. **IAC 2018, 404.2.10 Door and Gate Surfaces.** Swinging door and gate surfaces within 10 inches of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate.
4. All tempered safety glazing shall comply with CBC.
5. Coordinate all rated doors with G500 Code Plans.

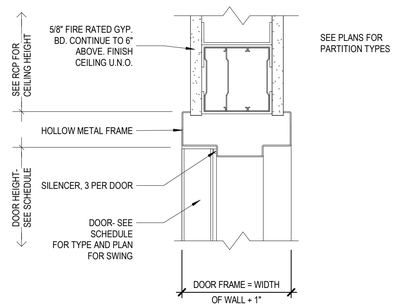
EXTERIOR FIRE-RATED STOREFRONT AND GLAZING ASSEMBLIES SCHEDULE

Window No.	Room No. & Name	Fire Rating	Width	Height	Thickness	Details	Comments
1A	N101 LOBBY	1-HR	SEE ELEV.	SEE ELEV.	1 3/8"	7/A401	1-HR FIRE-RATED FRAMING AND INSULATING GLAZING ASSMELBY AND DOOR (101C - COORD. W/DOOR SCHEDULE).
2A	N147 LOUNGE	2-HR	3'-1 1/2"	6' - 0"	1 3/8"	1/A400; 14/A710	2-HR FIRE-RATED STEEL CURTAIN WALL SYSTEM. FIRE-RATED INSULATING GLASS TO INCORPORATE IG-1 PER SPEC.
2B	N147 LOUNGE	2-HR	8'-6 1/2"	6'-0"	1 3/8"	2/A400; 9/A710	2-HR FIRE-RATED STEEL CURTAIN WALL SYSTEM. FIRE-RATED INSULATING GLASS TO INCORPORATE IG-1 PER SPEC.
2C	124D EXISTING OFFICE	2-HR	4' - 6"	9' - 0"	1 3/4"	8/A401	2-HR. FIRE-RATED STOREFRONT GLAZING SYSTEM TO MATCH EXISTING WINDOW SIZE AND FRAME FINISH.

NOTE: FIRE-RATED FRAME AND GLAZING ASSEMBLY RATING TO MATCH FIRE-RATING OF WALL AS NOTED ON THE CODE PLAN SHEET G500. COORD. WITH DOOR SCHEDULE AND SPECS.

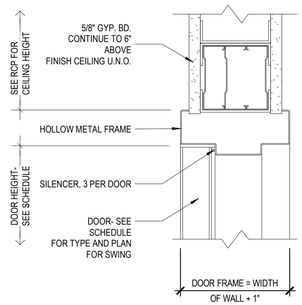
DOOR AND FRAME SCHEDULE

Door Number	Room	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Glass Type	Frame Type	Frame Material	Frame Finish	Details Head	Details Jamb	Hardware Set	Fire Rating	Comments
101A	SECURITY	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		A	HM	PT-1	11	10	1		
101B	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		A	HM	PT-1	14	13	2	45 MIN	PROVIDE LOCK.
101C	LOBBY	3' - 0"	8' - 0"	2"	D	AL/GL	-	FIRE-RESISTIVE	B	-	-	3	4/6	10	60 MIN	EXTERIOR EGRESS DOOR FROM COURTYARD. SEE TYPE 1A ON EXTERIOR FIRE-RATED STOREFRONT AND GLAZING ASSEMBLIES SCHEDULE.
101D	LOBBY	6' - 0"	7' - 0"	5 5/8"	E	WD		FIRE-RESISTIVE	B	HM	PT-1	14	12		90 MIN	FIRE-RATED NARROW PROFILE STEEL DOORS (90 MIN) ON HOLD-OPENS.
121A	VESTIBULE	6' - 0"	8' - 0"		E	AL/GL	-		B	-	-	3	1	12		COORDINATE WITH A600 ENLARGED PLANS AND ELECTRICAL DRAWINGS FOR DOOR OPERATORS AND RELEASES.
121B	VESTIBULE	6' - 0"	7' - 10 3/4"		E	AL/GL	-		B			3	1	13		COORDINATE WITH A600 ENLARGED PLANS AND ELECTRICAL DRAWINGS FOR DOOR OPERATORS AND RELEASES.
122A	VESTIBULE	6' - 0"	8' - 0"		E	AL/GL	-		B	-	-	3	1	12		COORDINATE WITH A600 ENLARGED PLANS AND ELECTRICAL DRAWINGS FOR DOOR OPERATORS, RELEASES AND CARD READER.
122B	VESTIBULE	6' - 0"	7' - 10 3/4"		E	AL/GL	-		B	-	-	3	1	13		COORDINATE WITH A600 ENLARGED PLANS AND ELECTRICAL DRAWINGS FOR DOOR OPERATORS AND RELEASES.
136A	ASSEMBLY HALL	6' - 0"	8' - 0"		E	AL/GL	-		B	-	-	3	1/5	11		CURTAIN WALL EGRESS DOORS TO EXTERIOR FROM ASSEMBLY HALL.
136B	ASSEMBLY HALL	6' - 0"	8' - 0"		E	AL/GL	-		B	-	-	3	1/5	11		CURTAIN WALL EGRESS DOORS TO EXTERIOR FROM ASSEMBLY HALL.
136C	ASSEMBLY HALL	6' - 0"	8' - 0"		E	AL/GL	-		B	-	-	3	1/5	11		CURTAIN WALL EGRESS DOORS TO COURTYARD FROM ASSEMBLY HALL.
139	W. TOILET	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		A	HM	PT-1	11	10	3		
140	M. TOILET	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		A	HM	PT-1	11	10	3		
141	CHAIR STORAGE	6' - 0"	7' - 0"	1 3/4"	B	HM	PT-1		B	HM	PT-1	14/9	12/13	4	90 MIN	
142A	CATERING	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		A	HM	PT-1	9	12	5	90 MIN	INTERIOR DOOR TO ASSEMBLY HALL.
142B	CATERING	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1		B	HM	PT-1	14	13	6	90 MIN	EXTERIOR DOOR.
143	VESTIBULE	5' - 8"	7' - 10"	1 3/4"	B	WD	-	-	B	HM	PT-1	14	12	8	90 MIN	ASSEMBLY HALL MAIN ENTRY DOORS ON HOLD OPENS.
144	STORAGE	6' - 0"	7' - 0"	1 3/4"	B	HM	PT-1	-	A	HM	PT-1	14	13	7	90 MIN	EXTERIOR DOORS ONTO COURTYARD.
148	OPERABLE PART. CL.	2' - 5"	14' - 10"	1 3/4"	-			-	-	-						SEE OPERABLE PARTITION SPEC. AND DETAILS. DOOR FINISH FACE TO MATCH WEST WALL OF ASSEMBLY HALL. DOOR HARDWARE BY OPERABLE PARTITION MANUF.
149	AV/IT STORAGE	3' - 0"	7' - 0"	1 3/4"	A			-	A	HM					90 MIN	
150	JANITOR CLOSET	3' - 0"	7' - 0"	1 3/4"	A			-	A	HM						
151A	RESTROOM	3' - 0"	7' - 0"	1 3/4"	A			-	A	HM					45 MIN	DOOR AT EXISTING BUILDING 1-HR RATED CORRIDOR WALL.
151B	RESTROOM	3' - 0"	7' - 0"	1 3/4"	A			-	A	HM					45 MIN	DOOR AT EXISTING BUILDING 1-HR RATED CORRIDOR WALL.
158A	EXIST. CIRCULATION	5' - 8"	7' - 0"	1 3/4"	C	HMGL	PT-1	SAFETY	A	HM	PT-1					DOUBLE-EGRESS DOORS
158B	EXIST. CIRCULATION	5' - 8"	7' - 0"	1 3/4"	C	HM/GL	PT-1	SAFETY	A	HM	PT-1					DOUBLE-EGRESS DOORS
N004	IDF ROOM	3' - 0"	7' - 0"	1 3/4"	A	HM	PT-1	-	A	HM	PT-1				90 MIN	
ST1B	STAIR ST-1	3' - 0"	7' - 0"		D	AL/GL	-	FIRE-RESISTIVE	D	AL	PT-1				90 MIN	FIRE-RATED NARROW PROFILE STEEL DOOR (90 MIN) AND FIRE-RATED FRAME AND GLAZING ASSEMBLY (120 MIN).



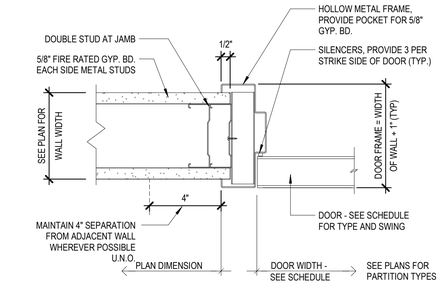
1HR RATED PARTITION DOOR HEAD

14 3" = 1'-0"



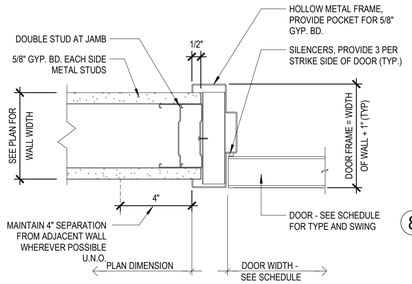
DRYWALL PARTITION DOOR HEAD

11 3" = 1'-0"



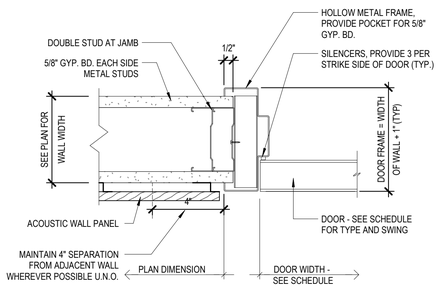
1HR RATED PARTITION DOOR JAMB

13 3" = 1'-0"



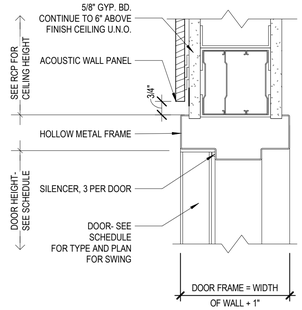
DRYWALL PARTITION DOOR JAMB

10 3" = 1'-0"



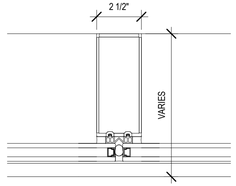
DRYWALL PARTITION DOOR HEAD

12 3" = 1'-0"



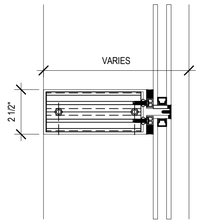
DRYWALL PARTITION DOOR HEAD

9 3" = 1'-0"



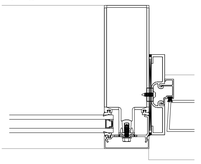
VERTICAL MULLION

8 3" = 1'-0"



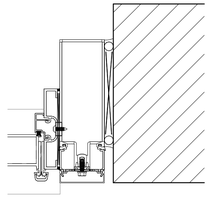
HORIZONTAL MULLION

7 3" = 1'-0"



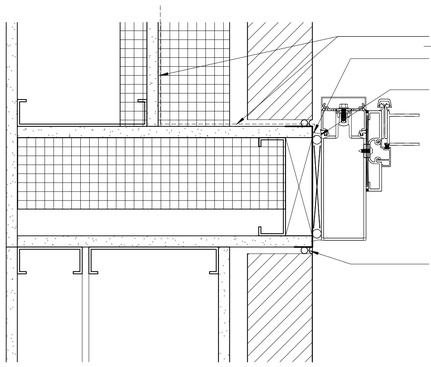
C.W. DOOR JAMB AT LATCH

6 3" = 1'-0"



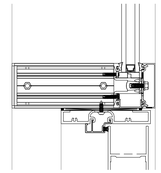
C.W. DOOR JAMB AT HINGE AND WALL

5 3" = 1'-0"



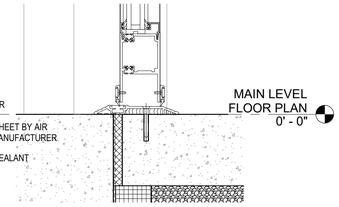
BRICK DOOR JAMB

4 3" = 1'-0"



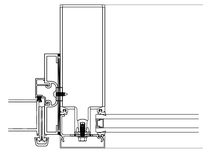
C.W. DOOR HEADER

3 3" = 1'-0"



C.W. DOOR THRESHOLD

2 3" = 1'-0"



C.W. DOOR JAMB AT HINGE

1 3" = 1'-0"

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Issuance

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
DOOR SCHEDULE

Sheet A900

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
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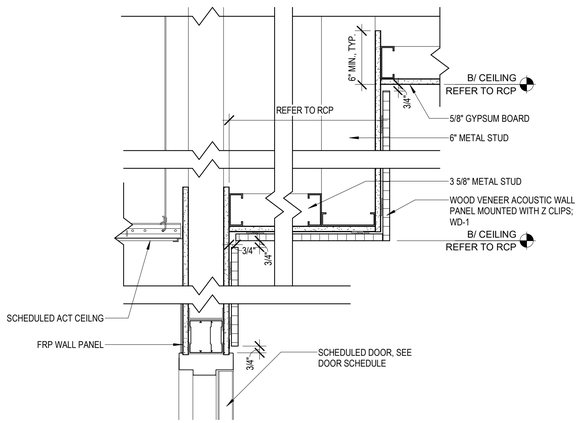
2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
1/2" = 1'-0"

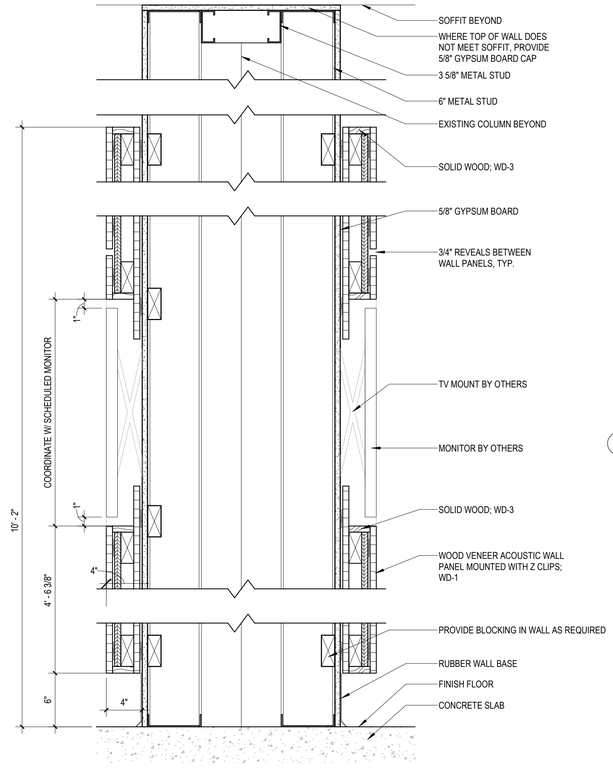
1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

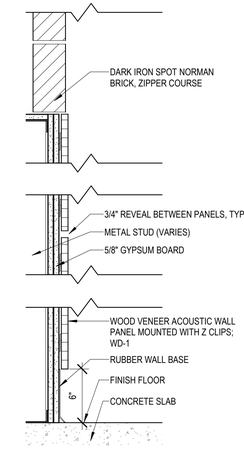
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"



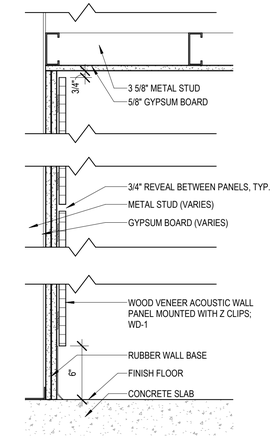
4 SOFFIT @ ACOUSTIC PANELING
1 1/2" = 1'-0" D1



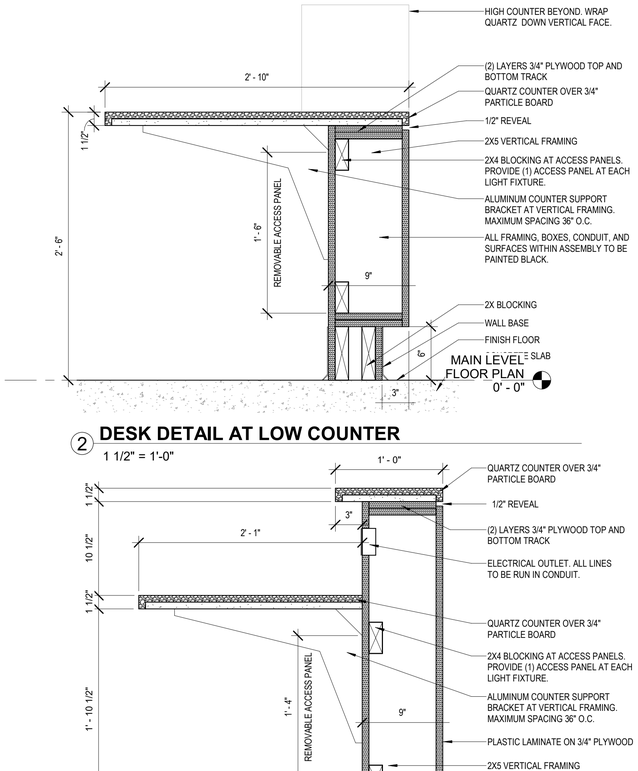
6 WOOD PANELING AT COLUMN DETAIL
1 1/2" = 1'-0"



9 WOOD PANELING DETAIL
1 1/2" = 1'-0"

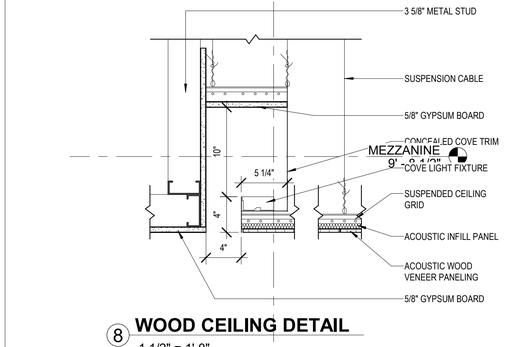


10 ACOUSTIC PANELING DETAIL
1 1/2" = 1'-0"

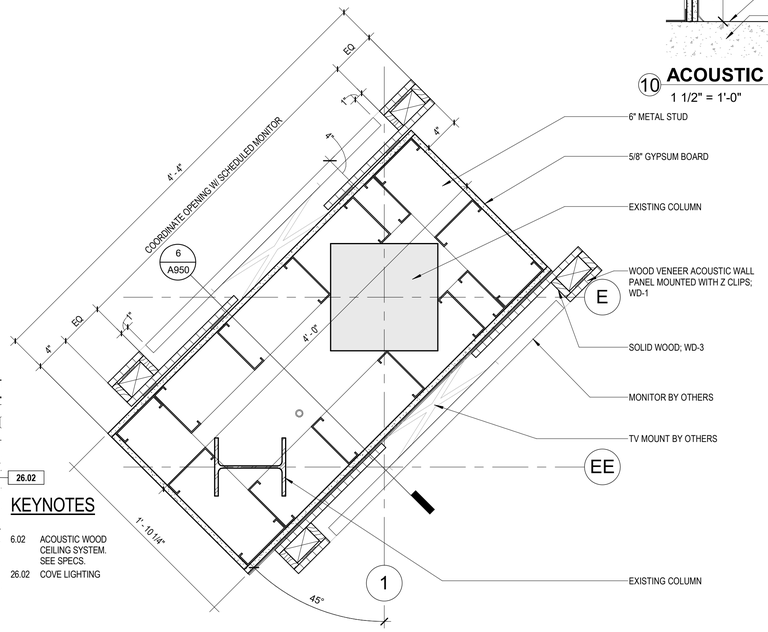


2 DESK DETAIL AT LOW COUNTER
1 1/2" = 1'-0"

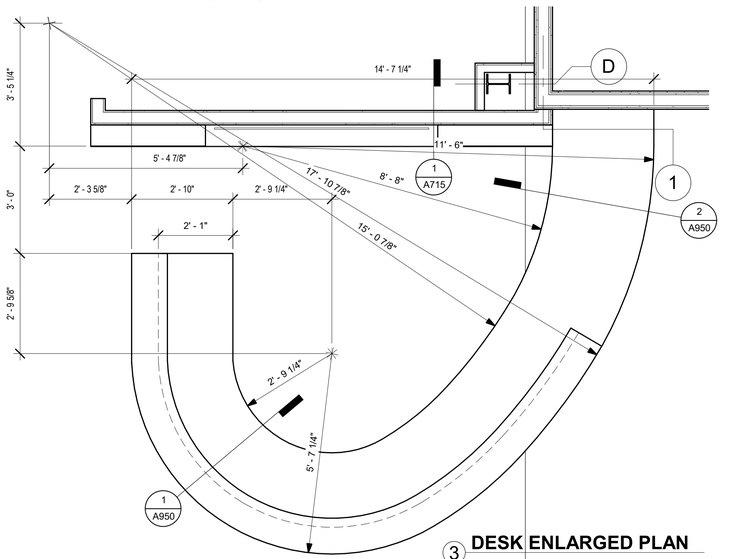
1 DESK DETAIL
1 1/2" = 1'-0"



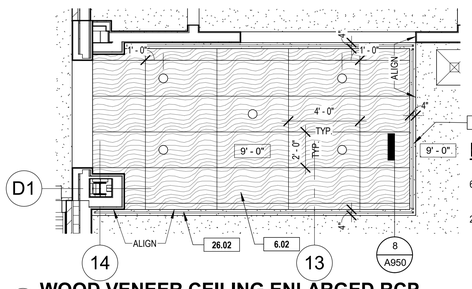
8 WOOD CEILING DETAIL
1 1/2" = 1'-0"



5 WOOD PANELING AT COLUMN HORIZONTAL DETAIL
1 1/2" = 1'-0"



3 DESK ENLARGED PLAN
1/2" = 1'-0"



KEYNOTES

6.02 ACOUSTIC WOOD CEILING SYSTEM. SEE SPECS.

26.02 COVE LIGHTING

7 WOOD VENEER CEILING ENLARGED RCP
1/4" = 1'-0"

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
INTERIOR & MILLWORK DETAILS

Sheet A950

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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0'-0" 0'-6" 1'-0" 2'-0"
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0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
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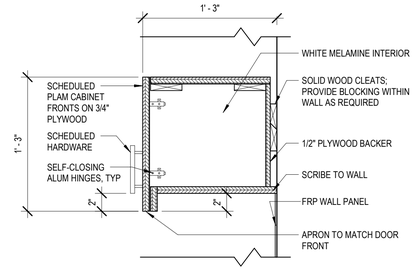
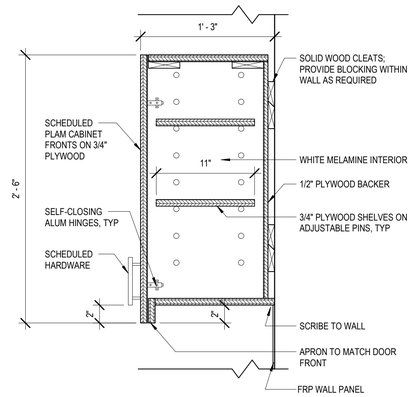
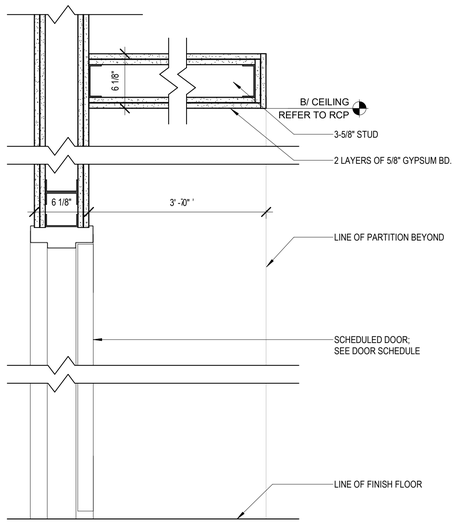


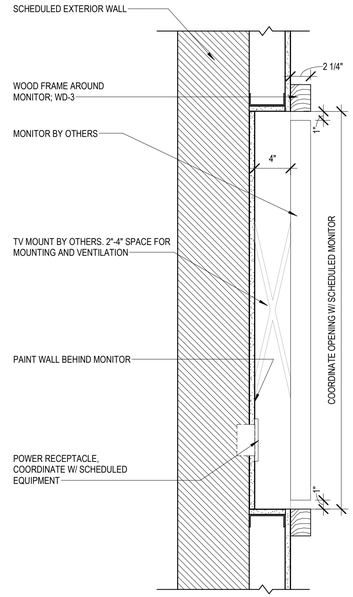
7 UPPER CABINET DETAIL @ SINK
1 1/2" = 1'-0"



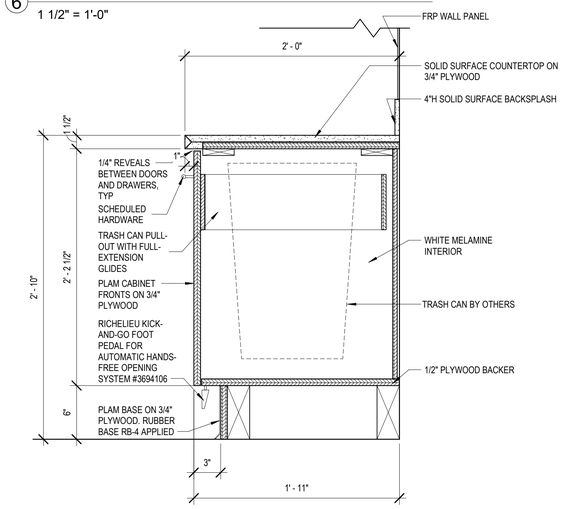
6 TYP. UPPER CABINET DETAIL
1 1/2" = 1'-0"



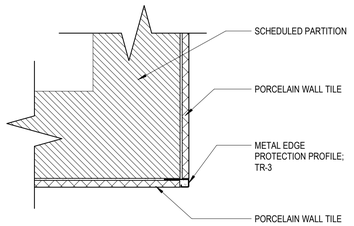
8 LOBBY PORTAL SURROUND DETAIL
1 1/2" = 1'-0"



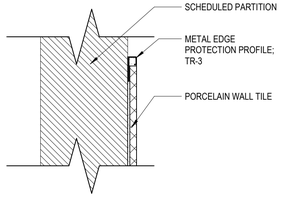
4 RECESSED MONITOR DETAIL
1 1/2" = 1'-0"



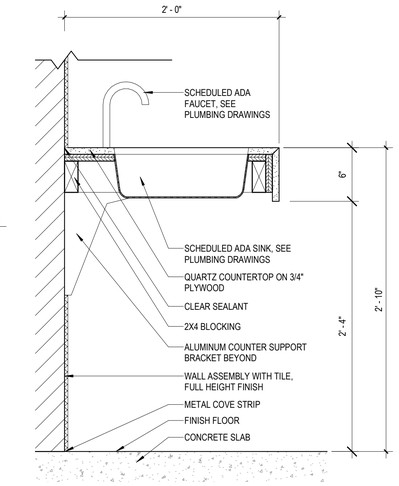
2 ADA BASE CABINET W/ PULL-OUT TRASH DETAIL
1 1/2" = 1'-0"



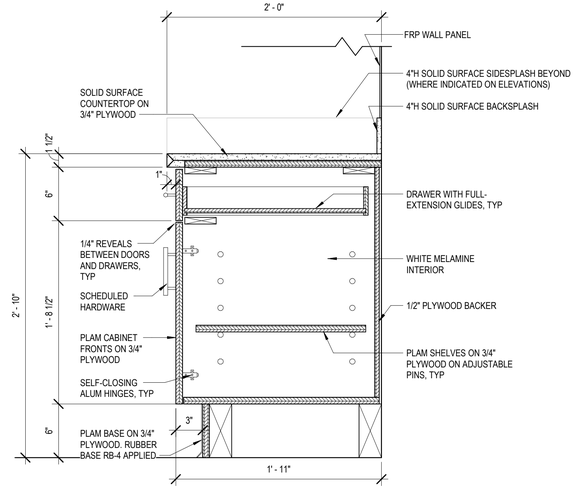
10 TYP. WALL TILE OUTSIDE CORNER DETAIL
3" = 1'-0"



9 TYP. WALL TILE EDGE DETAIL
3" = 1'-0"



5 VANITY DETAIL
1 1/2" = 1'-0"



3 ADA BASE CABINET W/ SINK DETAIL
1 1/2" = 1'-0"

1 ADA BASE CABINET DETAIL
1 1/2" = 1'-0"

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
INTERIOR & MILLWORK DETAILS

Sheet
A951

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
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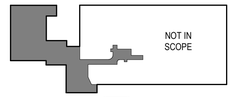


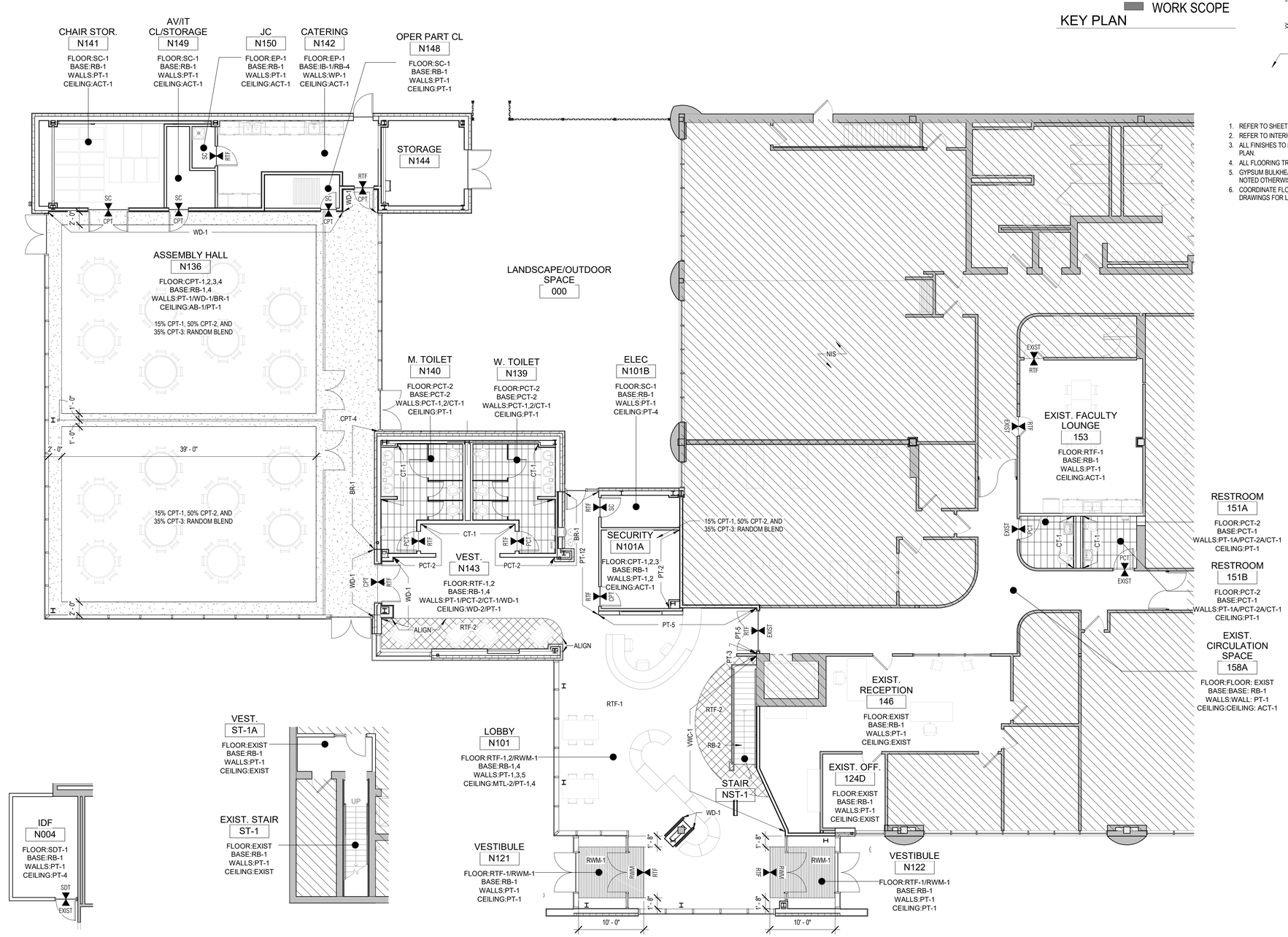
KEY PLAN

FINISH PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- FLOORING INSTALL DIRECTION
- XX MATERIAL CHANGE INDICATION XX
- XX-XX ACCENT WALL INDICATION

FINISH PLAN NOTES

1. REFER TO SHEET A952 FOR ROOM FINISH DESCRIPTION SCHEDULE.
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
3. ALL FINISHES TO MEET MIN. LOCAL CODE REQUIREMENTS. REFER TO LIFE SAFETY PLAN.
4. ALL FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR UNO .
5. GYPSUM BULKHEADS ON ACT CEILING TO BE PAINTED TO MATCH ACT UNLESS NOTED OTHERWISE .
6. COORDINATE FLOOR BOX OUTLETS WITH FLOOR FINISHES; SEE ELECTRICAL DRAWINGS FOR LOCATIONS.



3 LOWER LEVEL PARTIAL FINISH PLAN - NEW WORK
1/8" = 1'-0"

0 4' 8' 16'

2 LOWER LEVEL PARTIAL FINISH PLAN - NEW WORK
1/8" = 1'-0"

1 MAIN LEVEL PARTIAL FINISH PLAN - NEW WORK - SOUTH
1/8" = 1'-0"

0 4' 8' 16'

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL PARTIAL FINISH PLAN - NEW WORK - SOUTH

Sheet
A952

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
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1" = 1'-0"

0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

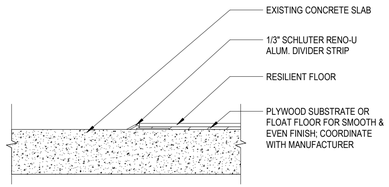
0'-0" 0'-3" 0'-6" 0'-9" 1'-0"
3" = 1'-0"

FINISH SCHEDULE

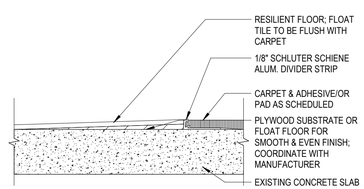
TAG	MATERIAL CATEGORY	DESCRIPTION	MANUFACTURER	PRODUCT NAME, NUMBER	COLOR, FINISH	SIZE	NOTES	LOCATION	ENVIRONMENTAL CERTIFICATIONS
ACOUSTICAL CEILING TILE									
ACT-1	ACOUSTICAL CEILING TILE	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA TILE, 0.75 NRC, PRELUDE GRID	WHITE	24"X24"X0.75"TH		SECURITY, CATERING, CHAIR STORAGE	GREENGUARD GOLD, DECLARE LABEL
BRICK									
BR-1	BRICK	BRICK		DARK IRON SPOT NORMAN BRICK VENEER				LOBBY. VESTIBULE 143, ASSEMBLY HALL	
CARPET									
CPT-1	CARPET	CARPET TILE	J+J FLOORING	KINETEX			INSTALL TBD	ASSEMBLY HALL, SECURITY	
CPT-2	CARPET	CARPET TILE	J+J FLOORING	KINETEX			INSTALL TBD	ASSEMBLY HALL, SECURITY	
CPT-3	CARPET	CARPET TILE	J+J FLOORING	KINETEX			INSTALL TBD	ASSEMBLY HALL, SECURITY	
CPT-4	CARPET	CARPET TILE	J+J FLOORING	KINETEX			INSTALL TBD	ASSEMBLY HALL	
CEILING BAFFLE									
AB-1	CEILING BAFFLE	WOOD-LOOK POWDERCOATED METAL ACOUSTIC CEILING BAFFLE	CERTAINTEED	TAVOLA LEVELS	NORTHWEST MOUNTAIN HEMLOCK #8486	10"H, 12"H	INSTALL: ALTERNATE 10"H AND 12"H EVERY OTHER BAFFLE.	ASSEMBLY HALL N136	GREENGUARD GOLD, EPD, HPD
MTL-2	CEILING BAFFLE	METAL SHEET CEILING BAFFLE	CERTAINTEED	V-BAFFLE FINS	CUSTOM COLOR TO MATCH WD-1			LOBBY N101	GREENGUARD GOLD, EPD, HPD
CERAMIC TILE									
CT-1	CERAMIC TILE	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	CURRANT #SH17	3"X6"	HORIZONTAL STACK INSTALLATION, GROUT: COLOR TBD	M. TOILET N140, W. TOILET N139, RESTROOM N151A, RESTROOM N151B	MADE IN THE USA
PCT-1	CERAMIC TILE	PORCELAIN TILE	ATLAS CONCORDE	COVE	BREEZE	12"X24"	HORIZONTAL STACK INSTALLATION, GROUT: COLOR TBD	M. TOILET N140, W. TOILET N139	GREENGUARD GOLD, EPD, VOC-FREE, MADE IN THE USA, HPD
PCT-1A	CERAMIC TILE	PORCELAIN TILE	ATLAS CONCORDE	COVE	BREEZE	2"X2" MOSAIC	HORIZONTAL STACK INSTALLATION, GROUT: COLOR TBD	RESTROOM N151A, RESTROOM N151B	GREENGUARD GOLD, EPD, VOC-FREE, MADE IN THE USA, HPD
PCT-2	CERAMIC TILE	PORCELAIN TILE	ATLAS CONCORDE	COVE	COAST	12"X24"	HORIZONTAL STACK INSTALLATION, GROUT: COLOR TBD	M. TOILET N140, W. TOILET N139, RESTROOM N151A, RESTROOM N151B, VESTIBULE 143	GREENGUARD GOLD, EPD, VOC-FREE, MADE IN THE USA, HPD
PCT-2A	CERAMIC TILE	PORCELAIN TILE	ATLAS CONCORDE	COVE	COAST	2"X2" MOSAIC	HORIZONTAL STACK INSTALLATION, GROUT: COLOR TBD	RESTROOM N151A, RESTROOM N151B	GREENGUARD GOLD, EPD, VOC-FREE, MADE IN THE USA, HPD
CONCRETE									
SC-1	CONCRETE	CONCRETE	TBD	WATER-BASED REPELLING SEALER, LOW-VOC.	COLOR TO MATCH ARCHITECT'S SAMPLE. CLEAR, MATTE FINISH.			ELEC, STORAGE, JC	RED LIST FREE
EPOXY FLOORING									
EP-1	EPOXY FLOORING	EPOXY FLOORING						CATERING	
HARDWARE									
HW-1	HARDWARE	CABINET HARDWARE	TBD					CATERING, FACULTY LOUNGE	
INTEGRAL BASE									
IB-1	INTEGRAL BASE	INTEGRAL EPOXY COVE BASE		TO MATCH EP-1					
OPERABLE PARTITIONS									
OP-1	OPERABLE PARTITIONS	OPERABLE PARTITIONS	MODERNFOLD	ACOUSTI-SEAL PREMIER, MANUALLY OPERATED PANEL MATERIAL: CARNEGIE XOREL DOOR MATERIAL: WOOD VENEER.	PANEL MATERIAL: CARNEGIE XOREL LINEN #6291 1 DOOR MATERIAL: WOOD VENEER, STAINED TO MATCH WD-1			ASSEMBLY HALL N136	SCS INDOOR ADVANTAGE GOLD, PVC-FREE
PAINT									
PT-1	PAINT	PAINT	GLIDDEN PROFESSONAL	#40YY 83/021, LRV: 81, ZERO-VOC	MINIMALIST WHITE, EGGSHELL FINISH @ WALLS, FLAT FINISH @ CEILINGS		GENERAL USE	GENERAL USE	DECLARE RED LIST FREE
PT-2	PAINT	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH GLIDDEN #30YY 51/098, LRV: 50, ZERO-VOC	CUSTOM COLOR TO MATCH GLIDDEN TOASTY GREY, EGGSHELL FINISH		ACCENT WALL	SECURITY N101A	DECLARE RED LIST FREE
PT-3	PAINT	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH GLIDDEN 16YR 16/594, LRV: 14, ZERO-VOC	CUSTOM COLOR TO MATCH GLIDDEN MATADOR, EGGSHELL FINISH		ACCENT WALL	LOBBY N101	DECLARE RED LIST FREE
PT-4	PAINT	PAINT	GLIDDEN PROFESSONAL	#00NN 07/000, LRV: 7, ZERO-VOC	DEEP ONYX, FLAT FINISH		EXPOSED CEILINGS	LOBBY N101, IDF N004	DECLARE RED LIST FREE
PT-5	PAINT	PAINT	SHERWIN WILLIAMS	#SW97647, LRV: 66, ZERO-VOC	CRUSHED ICE, EGGSHELL FINISH		ACCENT WALL	LOBBY N101	DECLARE RED LIST FREE
PT-6	PAINT	PAINT	GLIDDEN PROFESSONAL/SHERWIN WILLIAMS	PAINTED TO MATCH WALL	SEMI-GLOSS FINISH		DOORS & FRAMES	GENERAL USE	DECLARE RED LIST FREE
PLASTIC LAMINATE									
PLAM-1	PLASTIC LAMINATE	PLASTIC LAMINATE	NEVAMAR	-	SANTA ROSA PLUM TREE #WZ2001T	3MM BIOBASED EDGEBAND TO MATCH PLAM	VERTICAL INSTALLATION	LOBBY @ RECEPTION DESK, CATERING, FACULTY LOUNGE	GREENGUARD GOLD, DECLARE RED LIST APPROVED, HPD
QUARTZ									
QZ-1	QUARTZ	QUARTZ	CORIAN	CLOUD WHITE	MATTE FINISH	3/4"TH, 1/16" EASED EDGE		LOBBY	GREENGUARD GOLD, EPD, DECLARE LABEL, HPD
QZ-2	QUARTZ	QUARTZ	CORIAN	COARSE PEPPER	MATTE FINISH	3/4"TH, 1/16" EASED EDGE		TOILET ROOMS, CATERING, FACULTY LOUNGE	GREENGUARD GOLD, EPD, DECLARE LABEL, HPD
RECESSED WALKOFF GRILLE									
RWM-1	RECESSED WALKOFF GRILLE	RECESSED WALKOFF GRILLE	MATTER SURFACES	ULTRA TRACK FOOT GRILLE, FRAMELESS, DRAIN PAN	ALUMINUM			VESTIBULE N121, N122	
RESILIENT TILE									
RTF-1	RESILIENT TILE	RESILIENT TILE	SHAW CONTRACT	0895V INNATE TILE	95110 NATURAL	13"X26"		LOBBY, VEST N143	FLOORSCORE CERTIFIED, GREENGUARD CERTIFIED, HPD, EPD, DECLARE RED LIST APPROVED, PVC-FREE
RTF-2	RESILIENT TILE	RESILIENT TILE	SHAW CONTRACT	0895V INNATE TILE	95715 UMBER	13"X26"		LOBBY, VEST N143	FLOORSCORE CERTIFIED, GREENGUARD CERTIFIED, HPD, EPD, DECLARE RED LIST APPROVED, PVC-FREE
RUBBER									
RB-1	RUBBER	RUBBER WALL BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER BASE	PEBBLE #32	4"HX1/8"TH	INSTALL COVE BASE @ HARD SURFACE FLOORING, STRAIGHT BASE @ CARPET	VESTIBULE, LOBBY, SECURITY, COMMUNITY ROOM, CHAIR STORAGE	GREENGARD GOLD, EPD
RB-2	RUBBER	RUBBER STAIR TREADS	ROPPE	RUBBER TREAD, RAISED ROUND TEXTURE	TBD			STAIR	GREENGUARD GOLD, HPD, FREE OF RED LIST CHEMICALS (NO DECLARE LABEL)
RB-3	RUBBER	RUBBER MOULDING	ROPPE	RUBBER TRANSITION STRIP	TBD		CHANGE OF FLOORING MATERIAL TRANSITION	GENERAL USE	FLOORSCORE,EPD, HPD, FREE OF RED LIST CHEMICALS (NO DECLARE LABEL)
RB-4	RUBBER	RUBBER WALL BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER BASE	TBD	6"HX1/8"TH	INSTALL COVE BASE @ HARD SURFACE FLOORING, STRAIGHT BASE @ CARPET	@ WOOD-VENEER PANELS AND MILLWORK CABINETS	GREENGARD GOLD, EPD
SOLID SURFACE									
SS-1	SOLID SURFACE	SOLID SURFACE	WILSONART	-	HOT STONE #9201GS			ASSEMBLY HALL N136	
STATIC DISSIPATIVE TILE									
SDT-1	STATIC DISSIPATIVE TILE	STATIC DISSIPATIVE TILE	FLEXCO	ESD RUBBER TILE	SEASHELL WITH MEDIUM GRAY, NICKEL 074	24"X24"X2MM TH		IDF N004	RED LIST FREE
TOILET PARTITIONS									
TP-1	TOILET PARTITIONS	TOILET PARTITIONS	SCRANTON PRODUCTS	ARIA FULL-HEIGHT HDPE TOILET PARTITIONS	LINEN		FLOOR-MOUNTED	M. TOILET N140, W. TOILET N139	GREENGUARD GOLD CERTIFIED
TRANSITION STRIP									
TR-1	TRANSITION STRIP	TRANSITION STRIP	SCHLUTER	RENO-U ALUMINUM DIVIDER STRIP			CHANGE OF FLOORING MATERIAL TRANSITION	GENERAL USE	-
TR-3	TRANSITION STRIP	TRANSITION STRIP	SCHLUTER	QUADEC ALUMINUM EDGE STRIP			WALL TILE OUTSIDE CORNER PROTECTION PROFILE	M. TOILET N140, W. TOILET N139	-
TR-4	TRANSITION STRIP	TRANSITION STRIP	SCHLUTER	JOLLY ALUMINUM EDGE STRIP			WALL TILE EDGE PROTECTION PROFILE	RESTROOM N151A, RESTROOM N151B	-
WALL PROTECTION									
WP-1	WALL PROTECTION	FRP WALL PANEL	MARLITE	STANDARD FRP (FIBERGLASS REINFORCED PLASTIC), CLASS A	P 100 WHITE	4'X10'X0.09"TH	ANODIZED ALUMINUM TRIM/CORNERGUARDS	CATERING	GREENGUARD CERTIFIED
WALLCOVERING									
VWC-1	WALLCOVERING	DIGITAL VINYL WALLCOVERING	WOLF GORDON	DIGITALLY PRINTED VINYL WALLCOVERING, CUSTOM IMAGE, PVC-FREE SUBSTRATE	CUSTOM GRAPHIC			LOBBY N101	LOW-EMITTING, PVC-FREE
WINDOW SHADES									
MS-1	WINDOW SHADES	WINDOW SHADES	MECHOSHADE	DUAL MOTORIZED ROLLER SHADE, BLACKOUT FABRIC: CHELSEA BLACKOUT 0250, OPAQUE, SOLAR SHADE FABRIC: ECOVEIL 1550 SERIES, 3% OPENNESS	COLOR: TBD				GREENGUARD GOLD, EPD, HPD
MS-2	WINDOW SHADES	WINDOW SHADES	MECHOSHADE	SINGLE MOTORIZED ROLLER SHADE, ECOVEIL 1550 SERIES, FABRIC 3% OPENNESS	COLOR: TBD				GREENGUARD GOLD, EPD, DECLARE RED LIST FREE, HPD
WOOD									
WD-1	WOOD	ACOUSTIC WOOD WALL PANELING	OBERSOUND	ACOUSTIC WOOD VENEER WALL PANELS, PERFORATION PATTERN: CLASSICS ROUND	CANADIAN MAPLE	4'X8'		ASSEMBLY HALL, VESTIBULE 143, LOBBY N101	LOW-EMITTING
WD-2	WOOD	WOOD CEILING TILES	OBERSOUND	ACOUSTIC WOOD VENEER CEILING TILES, PERFORATION PATTERN: CLASSICS ROUND	CANADIAN MAPLE	2'X4'		VESTIBLE #143	LOW-EMITTING
WD-3	WOOD	WOOD PANEL	BY MILLWORKER	SPECIES: MAPLE	STAINED TO MATCH WD-1			LOBBY N101	

FINISH SCHEDULE NOTES

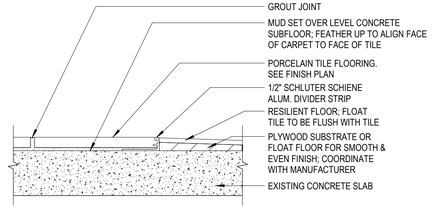
1. PAINT FINISH ON CEILINGS TO BE FLAT, WALLS TO BE EGGSHELL, AND DOOR FRAMES/TRIM TO BE SEMI-GLOSS UNO.
2. ALL FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR. ALL FLOOR TRANSITIONS TO MEET ADA REQUIREMENTS.
3. REFER TO SHEET A900 FOR DOOR SCHEDULE FOR FINISHES. ALL DOORS AND METAL FRAMES ON ACCENT WALLS TO BE PAINTED TO MATCH WALLS UNO.
4. ALL METAL SURFACES SCHEDULED TO BE PAINTED ARE TO BE PRIMED ACCORDING TO MANUFACTURER'S STANDARDS AND RECEIVE A SEMI GLOSS FINISH UON AND BE PAINTED TO MATCH ADJACENT SURFACE.
5. ALL FINISHES TO MEET LOCAL CODE REQUIREMENTS AT A MIN.
6. FLOORING TO BE INSTALLED CONT. UNDER MILLWORK, TYP.
7. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS, THE PAINT COLORS SHOULD BE SPLIT AT THE DOOR POCKET OF THE FRAME. DIFFERING COLORS SHALL NOT BE VISIBLE WHEN THE DOOR IS CLOSED.
8. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.
9. SEE ELEVATIONS FOR LOCATIONS OF MILLWORK FINISHES.



3 CONCRETE TO RESILIENT TRANSITION
6" = 1'-0"



2 CARPET TO RESILIENT TRANSITION
6" = 1'-0"



1 TILE TO RESILIENT TRANSITION
6" = 1'-0"

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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Issuance

Mark	Description	Date
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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
FINISH SCHEDULE

Sheet
A953

GENERAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
E	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND

DUCT SYSTEM ABBREVIATIONS

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

HYDRONIC SPECIALTIES

- FS — FLOW SWITCH
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PRESSURE GAUGE
- PS — PRESSURE SWITCH
- PSD — PUMP SUCTION DIFFUSER
- THERMOMETER
- STRAINER, BLOW DOWN
- STRAINER
- ANCHOR
- PIPING GUIDE
- EXPANSION LOOP
- EXPANSION JOINT
- FM — FLOW METER

RENOVATION LEGEND:

<E>	EXISTING TO REMAIN
<ED>	EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE
<ER>	EXISTING TO BE RELOCATED
<EO>	EXISTING TO BE REMOVED
<EN>	EXISTING IN NEW LOCATION
<N>	NEW
<RAI>	REMAIN AS IS

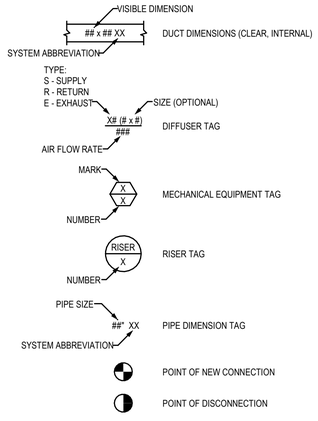
MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLU.M
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQAURE INCH GAUGE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RPM	REVOLUTIONS PER MINUTE
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SQUARE FEET OR SUPPLY FAN
SPS	STATIC PRESSURE SENSOR
T	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TO	TRANSFER OPENING
TYP	TYPICAL
UC	UNDERCUT (DOOR)
UG	UNDERGROUND
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

HVAC SENSORS

- CO2 — CARBON DIOXIDE
- CO — CARBON MONOXIDE
- DS — DEWPOINT
- G — GAS
- H — HUMIDITY
- NO — NITROGEN OXIDE
- P — RELATIVE PRESSURE MONITOR
- R — REFRIGERANT MONITOR
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE
- T — THERMOSTAT
- TS — TEMPERATURE

MECHANICAL TAGS



HYDRONIC SYSTEM ABBREVIATIONS

— — — —	PIPE TO BE DEMOLISHED
——— D ———	DRAIN
——— G ———	NATURAL GAS
— — — V — — —	VENT
——— CHWS ———	CHILLED WATER SUPPLY
— — CHWR — —	CHILLED WATER RETURN
——— CWS ———	CONDENSER WATER SUPPLY
— — CWR — —	CONDENSER WATER RETURN
— — — CD — — —	CONDENSATE DRAIN
——— HWS ———	HEATING HOT WATER SUPPLY
— — HWR — —	HEATING HOT WATER RETURN
——— GS ———	GLYCOL SUPPLY
— — — GR — — —	GLYCOL RETURN
——— MU ———	MAKEUP WATER
——— HPWS ———	HEAT PUMP WATER SUPPLY
— — HPWR — —	HEAT PUMP WATER RETURN
——— GWS ———	GEOTHERMAL WATER SUPPLY
— — GWR — —	GEOTHERMAL WATER RETURN
— — RHG — —	REFRIGERANT HOT GAS
——— RL ———	REFRIGERANT LIQUID
——— RS ———	REFRIGERANT SUCTION
——— HPS ———	HIGH PRESSURE STEAM
——— MPS ———	MEDIUM PRESSURE STEAM
——— LPS ———	LOW PRESSURE STEAM
— — HPC — —	HIGH PRESSURE STEAM CONDENSATE
— — MPC — —	MEDIUM PRESSURE STEAM CONDENSATE
— — LPC — —	LOW PRESSURE STEAM CONDENSATE
— — — CR — — —	CONDENSATE RETURN
— — — PC — — —	PUMPED CONDENSATE
——— VPD ———	VACUUM PUMP DISCHARGE
——— BBD ———	BOILER BLOWDOWN
——— FDWS ———	BOILER FEEDWATER SUPPLY
——— H ———	HUMIDIFICATION LINE
——— FOF ———	FUEL OIL FILL
— — FOR — —	FUEL OIL RETURN
——— FOS ———	FUEL OIL SUPPLY
— — FOV — —	FUEL OIL VENT
——— A ———	COMPRESSED AIR
——— VAC ———	VACUUM AIR

HYDRONIC FITTINGS

- 45° ELBOW
- CAP
- 90° ELBOW
- ELBOW DOWN
- ELBOW UP
- TEE
- TEE DOWN
- TEE UP
- LATERAL
- UNION
- FLEXIBLE CONNECTION
- PIPE CONTINUATION
- FLANGE

DUCT SYSTEMS

- B — BACKDRAFT DAMPER
- F — FIRE DAMPER
- S — SMOKE DAMPER
- C — COMBINATION FIRE SMOKE DAMPER
- M — MOTORIZED DAMPER
- VOLUME DAMPER
- SIDEWALL GRILLE
- CEILING DIFFUSER
- CEILING DIFFUSER
- CEILING DIFFUSER
- UC — DOOR UNDERCUT
- DUCT SECTION, SUPPLY
- DUCT SECTION, RETURN
- DUCT SECTION, EXHAUST
- FLEXIBLE DUCT
- DIRECTION OF AIR FLOW
- DUCT SIZE TRANSITION
- RECTANGULAR ELBOW DOWN - SINGLE LINE
- ROUND ELBOW DOWN - SINGLE LINE
- RECTANGULAR ELBOW UP - SUPPLY
- RECTANGULAR ELBOW DOWN - SUPPLY
- ROUND ELBOW UP - SUPPLY
- ROUND ELBOW DOWN - SUPPLY
- RECTANGULAR ELBOW UP - RETURN
- ROUND ELBOW DOWN - RETURN
- ROUND ELBOW UP - RETURN
- ROUND ELBOW DOWN - RETURN
- RECTANGULAR ELBOW UP - EXHAUST
- RECTANGULAR ELBOW DOWN - EXHAUST
- ROUND ELBOW UP - EXHAUST
- ROUND ELBOW DOWN - EXHAUST
- MITERED ELBOW
- MITERED ELBOW WITH TURNING VANES
- ACCESS DOOR - TOP/SIDE
- AIR FLOW MEASURING STATION
- SOUND ATTENUATOR
- FLEXIBLE CONNECTION

MECHANICAL SHEET LIST

NUMBER	NAME
M000	MECHANICAL LEGEND AND SHEET LIST
M100	MECHANICAL DIAGRAMS
M200	MECHANICAL SCHEDULES
M201	MECHANICAL SCHEDULES
MD300	MECHANICAL MAIN LEVEL DUCTWORK DEMOLITION
MD301	MECHANICAL MEZZANINE DEMOLITION
MD302	MECHANICAL ROOF DEMOLITION
MD400	MECHANICAL MAIN LEVEL HYDRONIC DEMOLITION
M300	MECHANICAL MAIN LEVEL ASSEMBLY HALL
M301	MECHANICAL MAIN LEVEL EXISTING FACILITY
M302	MECHANICAL EXISTING FACILITY MEZZANINE
M303	MECHANICAL ROOF ASSEMBLY HALL
M304	MECHANICAL ROOF EXISTING FACILITY
M400	MECHANICAL PIPING MAIN LEVEL
M401	MECHANICAL PIPING ROOF
M500	MECHANICAL HYDRONIC DIAGRAM
M501	ENLARGED MECHANICAL PLANS - N004 IDF
M600	MECHANICAL DETAILS
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M700	MECHANICAL CONTROLS LEGEND
M701	MECHANICAL CONTROLS
M702	MECHANICAL CONTROLS
M703	MECHANICAL CONTROLS

MECHANICAL EQUIPMENT

PLAN / SYMBOL

- AIR SEPARATOR
- BASKET STRAINER
- EXPANSION TANK, FREE STANDING
- EXPANSION TANK, HANGING
- SIDE STREAM FILTER
- LOUVER
- HEAT EXCHANGER, PLATE AND FRAME
- HEAT EXCHANGER, SHELL AND TUBE
- T — STEAM TRAP
- VFD — VARIABLE FREQUENCY DRIVE
- CB — CONTROL BOX
- M — ENERGY METER
- NG — NATURAL GAS METER
- PUMP (SEE SCHEDULE FOR TYPE)
- VARIABLE AIR VOLUME BOX
- VAV BOX WITH ELECTRIC REHEAT
- VAV BOX WITH HYDRONIC REHEAT
- ROUND IN / ROUND OUT VAV BOX
- FAN POWERED BOX

HYDRONIC VALVES

- TWO-POSITION 2-WAY VALVE
- MODULATING 2-WAY VALVE
- TWO-POSITION 3-WAY VALVE
- MODULATING 3-WAY VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DIFFERENTIAL PRESSURE VALVE
- FLOAT OPERATED VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE INDEPENDENT VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- TRIPLE DUTY VALVE
- BACKFLOW PREVENTER

PUBLIC BUILDING COMMISSION — CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
CHICAGO IL 60644

CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

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LEED Consultant

Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL LEGEND AND SHEET LIST

Sheet
M000

DIAGRAM SYMBOL LEGEND		CONT.№	PAGE
DISPLAY	DESCRIPTION		
///	POWER WIRE		
	CONTROL WIRE		
	REF. PIPE		

CITY MULTI

SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

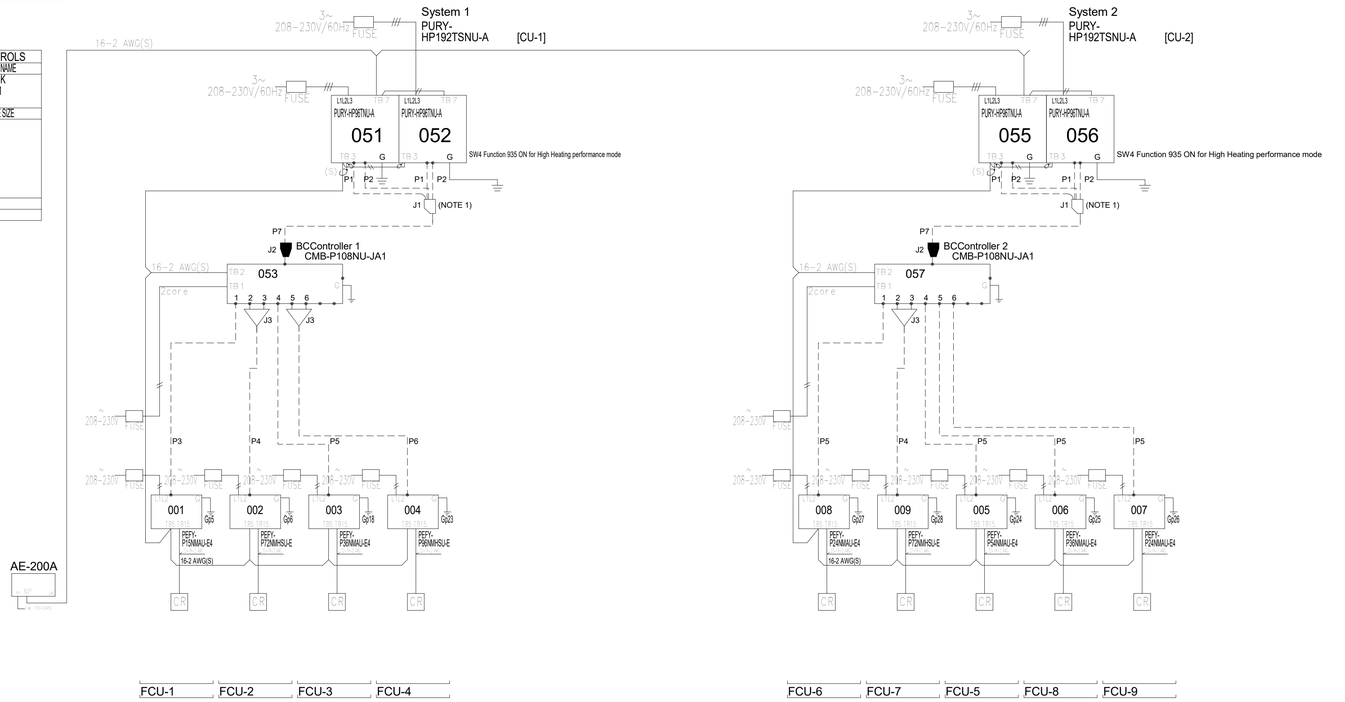
1.25mm(16 AWG) : 1.25mm(16 AWG) or more.

0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

Coded Notes:

NOTE 1: Install twinning Y's within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when twinning, and pipe slope requirements

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R200NCBK
J2	CMY-R302S-G1
J3	CMY-R160-J1
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/4 /
P2	/ 7/8
P3	1/4 / 1/2
P4	3/8 / 3/4
P5	3/8 / 5/8
P6	3/8 / 7/8
P7	7/8 / 1-1/8
SYMBOL	MODEL NUMBER
CR	PAC-YT53CRAU-J



1 VRF DIAGRAM

NOT TO SCALE

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Title
MECHANICAL DIAGRAMS

Sheet M100

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
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CITY COLLEGES OF CHICAGO
CITY OF CHICAGO, MAYOR BRANDON JOHNSON

PUBLIC BUILDING COMMISSION

CITY COLLEGES of CHICAGO

GAS FIRED/ DIRECT EXPANSION DEDICATED OUTDOOR AIR UNIT SCHEDULE (DOAS)

TAG	LOCATION	REFRIGERANT DATA		MOISTURE REMOVAL EFF. (MRE) lb/kWh	DESIGN AIR TEMPERATURES			COOLING CAPACITY							HEATING CAPACITY							SUPPLY FAN/MOTOR DATA			EXHAUST FAN/MOTOR DATA			FILTERS		ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
		TYPE	CHARGE (LBS)		SUMMER		WINTER	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	COMPRESSOR QUANTITY	INPUT (MBH)	OUTPUT (MBH)	MAT (DB°F)	LAT (DB°F)	AFUE %	STAGES	SA CFM	HP	E.S.P. (IN-W.C.)	EA CFM	HP	E.S.P. (IN-W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ				
					DB°F	WB°F	DB°F																														
DOAS–1	ROOF	R410A	19.02	6.57	82	76	-10	90.1	56.9	77	67	55	54	1	150	120	49	97	80	MOD	2315	4.00	1.00	2315	2.50	0.50	MERV 13	2	49	70	208	3	60	3500	TRANE	HORIZON (OAB/G REV 5) B084	SEE BELOW.

REMARKS:
1. PROVIDE FACTORY MOUNTED NEMA 3R NON-FUSED DISCONNECT W/ 115V CONVENIENCE OUTLET. 65KA SCCR RATING. SINGLE POINT ELECTRICAL CONNECTION.
2. PROVIDE SLIDE OUT DIRECT DRIVE PLENUM FANS WITH EC MOTOR ON SUPPLY AND EXHAUST FANS
3. PROVIDE PIEZO RING AIRFLOW MEASURING ON BOTH FANS
4. AIR VELOCITY ACROSS COOLING COIL SHALL NOT EXCEED 500 FPM
5. CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDED CLEARANCES
6. PROVIDE FULL CONDENSER COIL GUARD
7. PROVIDE CONDENSER HAILGUARDS
8. PROVIDE WITH EC FAN MOTOR ON SUPPLY AND EXHAUST.
9. PROVIDE MODULATING HOT GAS REHEAT DEHUMIDIFICATION OPTION
10. MODULATING DX COOLING AND MODULATING INDIRECT FIRED NATURAL GAS HEATING (MIN 10:1)
11. PROVIDE WITH A MINIMUM OF ONE INVERTER COMPRESSOR.
12. HINGED ACCESS PANELS
13. SS BURNER AND COMPONENTS
14. SS DRAINPAN, DOUBLE SLOPED
15. PROGRAMMABLE DIRECT DIGITAL CONTROLS WITH LCD TOUCHSCREEN INTERFACE – BTL LISTED BACNET INTERFACE. VAV CONTROL
16. 2-POSITION OUTSIDE AIR DAMPER
17. 2" SOLID DOUBLE-WALL CONSTRUCTION WITH MIN R-13 INJECTED FOAM INSULATION, NO EXCEPTIONS
18. START-UP BY MANUFACTURER WITH MANUFACTURER'S FIRST YEAR LABOR WARRANTY
19. 5 YEAR COMPRESSOR PARTS WARRANTY, 25 YEAR HEAT EXCHANGER PARTS WARRANTY
20. PROVIDE UNITS TO MEET OR EXCEED SCHEDULED MRE VALUES PER AHRI STD 920
21. PROVIDE ENERGY RECOVERY WHEEL
22. PROVIDE 26" VIBRO-ACOUSTICS NCC-VCR-22901 VIBRATION ISOLATION/NOISE CONTROL CURB WITH 2" MINIMUM SPRING DEFLECTION. SEE VIBRATION ISOLATION CURB SCHEDULE ON THIS SHEET. DOAS UNIT SCHEDULED WEIGHT INCLUDES WEIGHT OF THE CURB.

VRF OUTDOOR UNIT

TAG	LOCATION	NO. OF SECTIONS	REFRIGERANT DATA		EER/IEER	HEATING DATA		COOLING DATA		ELECTRICAL DATA						WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			CHARGE (LBS)	TYPE		OA (°F)	CAPACITY (MBH)	OA (DB°F)	CAPACITY (MBH)	SECTION 1		SECTION 2		VOLTS	PH	HZ				
										MCA	MOCP	MCA	MOCP							
CU–1	ROOF (ASSEMBLY)	2	83.1	R410A	11 / 15.1	-10	179.9	95	194	44 A	70 A	44 A	70 A	208	3	60	1324	TRANE	PUHY-HP192TSNU-A	1–11,13
CU–2	ROOF (ASSEMBLY)	2	87.6	R410A	11 / 15.1	-10	178.9	95	194	44 A	70 A	44 A	70 A	208	3	60	1324	TRANE	PUHY-HP192TSNU-A	1–11,13
CU–3	ROOF (EXISTING FACILITY)	1	7.7	R410A	9.5 / -	-10	0	95	27.24	19 A	25 A	0 A	0 A	208	1	60	151	MITSUBISHI	PUY-A30NHA7	3–6,12,13
CU–4	ROOF (EXISTING FACILITY)	1	7.7	R410A	9.5 / -	-10	0	95	27.24	19 A	25 A	0 A	0 A	208	1	60	151	MITSUBISHI	PUY-A30NHA7	3–6,12,13

REMARKS:
1. CONSISTS OF (2) PUHY-HP96TJMU-A UNITS.
2. PROVIDE CMY-Y100CBK3 TWINNING KIT.
3. MAINTAIN REQUIRED CLEARANCES FOR PROPER AIR FLOW AND MAINTENANCE. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
4. FINAL ROUTING AND SIZING OF THE REFRIGERANT LINES TO BE COORDINATED WITH MANUFACTURER BASED ON ACTUAL SITE CONDITIONS.
5. CONVENIENCE OUTLET AT UNIT PROVIDED BY ELECTRICAL CONTRACTOR.
6. FIELD MOUNTED DISCONNECT SWITCH (BY ELECTRICAL CONTRACTOR). ONE (1) DISCONNECT REQUIRED PER SECTION. EACH INDIVIDUAL SECTION REQUIRES A SEPARATE ELECTRICAL CONNECTION.
7. UNIT SHALL BE CAPABLE OF PROVIDING HEAT DURING DEFROST CYCLE.
8. VRF SYSTEM SHALL BE PROVIDED WITH BACNET INTERFACE AND BE CONNECTED TO BUILDING AUTOMATION SYSTEM FOR REMOTE MONITORING AND CONTROL. MANUFACTURER TO PROVIDE 16 HOURS OF INTEGRATION ASSISTANCE.
9. MASTER CONTROLLER WIRED TO ALL VRF COMPONENTS.
10. BACNET INTERFACE INTEGRATED WITH BUILDING AUTOMATION SYSTEM. REMOTE CONNECTIVITY AND MONITORING OF ALL POINTS THROUGH THE BUILDING AUTOMATION SYSTEM.
11. LOW AMBIENT COOLING TO 0°F.
12. LOW AMBIENT COOLING TO -40°F.
13. PROVIDE SNOW/HAIL GUARDS.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SCHEDULE

TAG	ASSOCIATED VRF UNIT	LOCATION	COOLING CAP./BRANCH	POWER INPUT		ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			GROSS (MBH)	COOLING (KW)	HEATING (KW)	MCA	MOCP	V	PH	HZ				
BC-1	CU-1	N136 - ASSEMBLY HALL	54	0.8	0.4	1.0	20	208	1	60	106	MITSUBISHI	CMB-P108NU-JA1	
BC-2	CU-2	N143 - VEST.	54	0.8	0.4	1.0	20	208	1	60	106	MITSUBISHI	CMB-P108NU-JA1	

REMARKS:
1. MAINTAIN REQUIRED CLEARANCES FOR MAINTENANCE. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
2. FINAL ROUTING AND SIZING OF THE REFRIGERANT LINES TO BE COORDINATED WITH MANUFACTURER BASED ON ACTUAL SITE CONDITIONS.
3. FIELD MOUNTED DISCONNECT SWITCH (BY ELECTRICAL CONTRACTOR).

VRF INDOOR UNIT SCHEDULE

TAG	ASSOCIATED OUTDOOR UNIT	LOCATION	COOLING CAP.				HEATING CAPACITY			FAN/MOTOR DATA		ELECTRICAL DATA			WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	OUTPUT (MBH)	EAT (DB°F)	LAT (DB°F)	SUPPLY		VOLTS	PH	HZ				
											SA (CFM)	ESP (IN WC)							
FCU–1	CU-1	N141 - CHAIR STOR.	12.6	11.2	75	63	55	12.3	70	93	490	0.60	208	1	60	58	TRANE	PEFY-P15NMAU-E4	1–5
FCU–2	CU-1	N136 - ASSEMBLY HALL	61.2	52.4	75	63	56	57.9	70	91	2540	1.00	208	1	60	214	TRANE	PEFY-P72NMHSU-E	1–5
FCU–3	CU-1	N136 - ASSEMBLY HALL	24.0	18.3	75	63	54	29	70	93	1165	0.60	208	1	60	86	TRANE	PEFY-P36NMAU-E4	1–5
FCU–4	CU-1	N136 - ASSEMBLY HALL	96.0	74.0	75	63	54	78.4	70	95	2965	1.00	208	1	60	221	TRANE	PEFY-P96NMHSU-E	1–5
FCU–5	CU-2	N136 - ASSEMBLY HALL	12.0	12.0	75	63	52	45.5	70	99	1480	0.60	208	1	60	86	TRANE	PEFY-P54NMAU-E4	1–5
FCU–6	CU-2	N143 - VEST.	24.0	18.3	75	63	56	20.5	70	92	880	0.60	208	1	60	67	TRANE	PEFY-P24NMAU-E4	1–5
FCU–7	CU-2	N101 - LOBBY	63.1	59.2	75	63	55	60.6	70	92	2540	1.00	208	1	60	214	TRANE	PEFY-P72NMHSU-E	1–5
FCU–8	CU-2	N101 - LOBBY	31.4	26.1	75	63	54	30.2	70	94	1165	0.60	208	1	60	86	TRANE	PEFY-P36NMAU-E4	1–5
FCU–9	CU-2	N101 - LOBBY	24.0	18.3	75	63	56	20.4	70	91	880	0.60	208	1	60	67	TRANE	PEFY-P24NMAU-E4	1–5
SC–1	CU-3	N004 - IDF	27.2	19.5	72	61	50	0	0	0	775	0.00	208	1	60	46	MITSUBISHI	PKA-A30KA8	1,2,6
SC–2	CU-4	N004 - IDF	27.2	19.5	72	61	50	0	0	0	775	0.00	208	1	60	46	MITSUBISHI	PKA-A30KA8	1,2,6

REMARKS:
1. PROVIDE WITH FACTORY MOUNTED CONDENSATE PUMP.
2. FIELD MOUNTED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
3. PROVIDE OCCUPANCY SENSORS.
4. MASTER CONTROLLER WIRED TO ALL VRF COMPONENTS.
5. VRF ZONE THEMOSTAT CONTROLLER TO INCLUDE:
   A. CONTROLS GROUP OPERATION FOR UP TO 16 INDOOR UNITS IN A SINGLE GROUP
   B. USER DEFINED FUNCTIONS:
      a. ON/OFF
      b. OPERATION MODE: COOL, HEAT, FAN, DRYING, OR SETBACK
      c. SET TEMPERATURE
      d. FAN SPEED SETTING
   C. SET TEMPERATURE RANGE LIMIT
   D. ROOM TEMPERATURE CAN BE SENSED EITHER AT THE INDOOR UNIT OR AT THE REMOTE CONTROLLER.
6. PROVIDE MANUFACTURER'S SIMPLE MA REMOTE CONTROLLER. SINGLE REMOTE CONTROLLER TO OPERATE BOTH UNITS SIMULTANEOUSLY.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	AIR STREAM	STYLE	MOUNTING TYPE	INLET SIZE	FRAME		MAX NC	MAX PD	MANUFACTURER	MODEL NO.	REMARKS
					HEIGHT	WIDTH					
E1	EXHAUST	PERFORATED EXHAUST GRILLE	SURFACE MOUNT	10ø	24"	24"	25	0.100	TITUS	PAR	
E2	EXHAUST	PERFORATED EXHAUST GRILLE	SURFACE MOUNT	14x14	24"	24"	25	0.100	TITUS	PAR	
E3	EXHAUST	PERFORATED EXHAUST GRILLE	SURFACE MOUNT	8x8	0"	0"	25	0.085	TITUS	PAR	
R1	RETURN	SIGHT-PROOF EGG CRATE RETURN GRILLE	SURFACE MOUNT	14x14	24"	24"	25	0.100	TITUS	45F	
R2	RETURN	SIGHT-PROOF EGG CRATE RETURN GRILLE	LAY-IN	14x14	24"	24"	25	0.100	TITUS	45F	
S1-14	SUPPLY	DUCT MOUNTED GRILLE	SURFACE MOUNT	14x8	9 1/2"	15 1/2"	25	0.100	TITUS	300FL	
S1-30	SUPPLY	DUCT MOUNTED GRILLE	SURFACE MOUNT	30x8	9 1/2"	31 1/2"	25	0.100	TITUS	300FL	
S2-6	SUPPLY	PLAQUE SUPPLY DIFFUSER	LAY-IN	6ø	24"	24"	25	0.100	TITUS	OMNI	
S2-8	SUPPLY	PLAQUE SUPPLY DIFFUSER	LAY-IN	8ø	24"	24"	25	0.100	TITUS	OMNI	ALL
S2-10	SUPPLY	PLAQUE SUPPLY DIFFUSER	LAY-IN	10ø	24"	24"	25	0.100	TITUS	OMNI	ALL
S2-12	SUPPLY	PLAQUE SUPPLY DIFFUSER	LAY-IN	12ø	24"	24"	25	0.085	TITUS	OMNI	ALL
S3-10	SUPPLY	LINEAR SLOT (3-SLOT 1" WIDTH, 4 FOOT LENGTH, W/PLENUM)	FLANGE, CONCEALED	10ø	6"	36"	20	0.050	TITUS	ML	
S4-8	SUPPLY	LINEAR SLOT (3-SLOT 1" WIDTH, 4 FOOT LENGTH, W/PLENUM)	FLANGE, CONCEALED	8ø	6"	49"	25	0.100	TITUS	ML	
S4-10	SUPPLY	LINEAR SLOT (3-SLOT 1" WIDTH, 4 FOOT LENGTH, W/PLENUM)	FLANGE, CONCEALED	10ø	6"	49"	20	0.050	TITUS	ML	
S4-12	SUPPLY	LINEAR SLOT (3-SLOT 1" WIDTH, 4 FOOT LENGTH, W/PLENUM)	FLANGE, CONCEALED	12ø	6"	48"	30	0.100	TITUS	ML	
S5-12	SUPPLY	LINEAR SLOT (3-SLOT 1" WIDTH, 5' LENGTH, W/PLENUM)	FLANGE, CONCEALED	12ø	6"	60"	25	0.100	TITUS	ML	
S7	SUPPLY	SIDEWALL DIFFUSER	SURFACE MOUNT	8x4	5 1/2"	9 1/2"	25	0.100	TITUS	300FL	

REMARKS:
1. METROPOLITAN RT-100 SHALL BE INSTALLED IN ALL DIFFUSERS ABOVE HARD CEILING TO AVOID ACCESS PANELS.
2. PROVIDE ADAPTOR BOOTS AS REQUIRED.
3. ARCHITECT TO SELECT THE FINISH COLOR.

ELECTRICAL HEATER SCHEDULE

TAG	LOCATION	MOUNTING TYPE	AIRFLOW (CFM)	HEATING CAPACITY (KW)	ELECTRICAL DATA					DIMENSIONS (IN)			WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
					MCA	MOCP	VOLTS	PH	HZ	LENGTH	WIDTH	HEIGHT				
EWH–144	N144 - STORAGE	SEMI-RECESSED	100	2.0	12	20	208	1	60	5	16	19	22	QMARK	CWH3408F	FIELD CONVERT TO HALF WATTAGE. SEE MANUFACTURERS INSTRUCTIONS. PROVIDE SEMI-RECESSED FRAME.
EWH–121	N121 - VESTIBULE	SEMI-RECESSED	100	3.0	18	20	208	1	60	5	16	19	22	QMARK	CWH3404F	SEE MANUFACTURERS INSTRUCTIONS. PROVIDE SEMI-RECESSED FRAME.
EWH–122	N122 - VESTIBULE	SEMI-RECESSED	100	3.0	18	20	208	1	60	5	16	19	22	QMARK	CWH3404F	SEE MANUFACTURERS INSTRUCTIONS. PROVIDE SEMI-RECESSED FRAME.

VARIABLE VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION	AIR STREAM	INLET SIZE (IN)	DESIGN AIRFLOW		A.P.D. (IN WC)	CONTROL TYPE	MANUFACTURER / MODEL NO.	REMARKS
				MAX (CFM)	MIN (CFM)				
STU–1	136 - COMMUNITY	SUPPLY	8	0	50	0.01	DDC	TRANE / VCCF8	ALL
STU–2	136 - COMMUNITY	SUPPLY	8	0	0	0.06	DDC	TRANE / VCCF8	ALL
STU–3	136 - COMMUNITY	SUPPLY	8	0	0	0.06	DDC	TRANE / VCCF8	ALL
STU–4	136 - COMMUNITY	SUPPLY	8	0	650	0.05	DDC	TRANE / VCCF8	ALL
ETU–1	136 - COMMUNITY	EXHAUST	8	0	0	0.06	DDC	TRANE / VCCF8	ALL
ETU–2	136 - COMMUNITY	EXHAUST	8	0	0	0.06	DDC	TRANE / VCCF8	ALL
ETU–3	136 - COMMUNITY	EXHAUST	8	0	650	0.05	DDC	TRANE / VCCF8	ALL

REMARKS:
1. BACNET FULLY PROGRAMABLE DDC CONTROLS, BTL LISTING REQUIRED, WITH ACTUATOR
2. FACTORY DUCT TEMPERATURE SENSOR
3. DOUBLE WALL WITH 1" INSULATION
4. METAL ENCAPSULATED EDGES: ALL CUT EDGES MUST BE SEALED FROM THE AIRSTREAM USING MECHANICALLY BONDED METAL BARRIER STRIPS
5. MANUFACTURER TO WARRANT PARTS AND LABOR FOR FIRST YEAR FOR EQUIPMENT AND CONTROLS
6. WIRELESS ZONE TEMPERATURE, CO2, OCCUPANCY AND HUMIDITY COMBINATION SENSOR. SHALL USE STANDARD LITHIUM AA DESIGNED TO LAST LIFETIME OF PRODUCT. OWNER SHALL NOT BE RESPONSIBLE FOR BATTERIES FOR FIRST 15 YEARS.
7. JOBSITE EC TO PROVIDE LINE VOLTAGE POWER TO ALL UNITS.

INTEGRAL VIBRATION ISOLATION / NOISE CONTROL CURB SCHEDULE

MANUFACTURER / MODEL	CURB HEIGHT (IN.)	EQUIPMENT TYPE	SUPPLY AIRFLOW (CFM)	SUPPLY PRESSURE DROP (IN.W.G.)	RETURN AIRFLOW (CFM)	RETURN PRESSURE DROP (IN.W.G.)	MINIMUM DEFLECTION (IN.)	WIND RESTRAINT REQUIRED	REQUIRED NC LEVEL	CURB WEIGHT (LBS)	REMARKS
VIBRO-ACOUSTICS / NCC-VCR-22901	26	ROOFTOP UNIT	2350	0.15	2350	0.15	2	YES	35	1200	ALL

REMARKS:
1. GALVANIZED CURB SECTIONS WITH INTEGRAL VERTICAL AND LATERALLY RESTRAINED ISOLATORS FORMED TO FIT THE CONTRACTOR SUPPLIED ROOFTOP EQUIPMENT. THE SPRING ISOLATION CURB AND ACOUSTICAL TREATMENT PACKAGE SHALL PROVIDE A SPACE AND ADJACENT SPACE NOISE CRITERIA (NC) AS SCHEDULED.
2. IF ALTERNATE MANUFACTURER IS PROVIDED, CONTRACTOR SHALL PROVIDE MECHANICAL CONSULTANT WITH THE FOLLOWING CALCULATIONS:
   A. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCTBORNE NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.
   B. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCT BREAKOUT NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.
   C. SUBMIT ANALYSIS TO DEMONSTRATE THAT NOISE TRANSMISSION THROUGH THE ROOF WILL NOT EXCEED SCHEDULED NC LEVEL.
   D. SUBMIT CALCULATIONS AND PE STAMP TO DEMONSTRATE THAT CODE REQUIREMENTS HAVE BEEN MET FOR WIND RESTRAINT DESIGN.
   E. SUBMIT CALCULATION TO DEMONSTRATE THAT INSTALLED PRESSURE DROP WILL BE NO GREATER THAN SCHEDULED VALUES FOR SUPPLY AND RETURN AIR PATHS.
3. NOISE CONTROL CURB SHALL HAVE HIGHT TRANSMISSION ACOUSTIC FLOOR BARRIER DESIGN TO PREVENT TRANSMISSION OF NOISE THROUGH THE ROOF AND INTO THE SPACE BELOW THE UNIT.
4. NOISE CONTROL CURB SHALL HAVE SUPPLY AIR SOUND ATTENUATOR PARTIALLY INSIDE THE CURB AND INTO THE CEILING SPACE. ATTENUATOR WITHIN CEILING SPACE SHALL BE SUPPORTED FROM ROOF/CEILING STRUCTURE PROVIDED BY THE INSTALLING CONTRACTOR.
5. NOISE CONTROL CURB SHALL HAVE RETURN AIR SOUND ATTENUATOR PARTIALLY INSIDE THE CURB AND INTO THE CEILING SPACE. ATTENUATOR WITHIN CEILING SPACE SHALL BE SUPPORTED FROM ROOF/CEILING STRUCTURE PROVIDED BY THE INSTALLING CONTRACTOR.
6. ATTENUATOR SHALL HAVE HIGH TRANSMISSION LOSS (HTL) CASING EQUIVALENT TO 8 GAUGE DUCT WALL TO PREVENT BREAK-OUT NOISE.

EXHAUST FAN SCHEDULE

TAG	TYPE	SERVICE	CFM	ESP (IN W.C.)	MOTOR DATA						WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
					HP	BHP	RPM	V	PH	HZ				
EF-TLT	CENTRIFUGAL DOWNBLAST	EXISTING FACILITY EXHAUST	1800	0.50	0	0.33	905	208	1	60	66	GREENHECK	GB-160	

STANDARD CITY OF CHICAGO REFRIGERANT SCHEDULE

MANUFACTURER / MODEL	QUANTITY	REFRIGERANT	NUMBER OF COMPRESSORS	NOMINAL TONS	WEIGHT OF REFRIGERANT (LBS)	REMOTE	SELF CONTAINED	REMARKS
TRANE / PUHY-HP192TSJMU-A	1	R410A	1	16	83.1	YES	NO	ALL
TRANE / PUHY-HP192TSJMU-A	1	R410A	1	16	87.6	YES	NO	ALL
TRANE / HORIZON (OAB/G REV 5) B084	1	R410A	1	7	19.0	YES	YES	ALL
MITSUBISHI PKA-A30KA8/PUY-A30NHA7	2	R410A	1	2.5	7.7	YES	NO	ALL

REMARKS:
1. ALL JOINTS SHALL BE BRAZED, PIPING TO BE TYPE K COPPER.
2. INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM FROM ANY LIQUID LINE SHUT-OFF VALVES.
3. REMOVE EXPANSION VALVES, DEVICES AND CONNECTIONS FROM THE AIR STREAM.

HEATING TABLE

BUILDING LOAD (MBH)	154.5 MBH
VENTILATION LOAD (MBH)	201.7 MBH
TOTAL HEATING LOAD (MBH)	356.2 MBH
HEATING SYSTEM OUTPUT CAPACITY (MBH)	474.8 MBH
HEATING SYSTEM EQUIPMENT INCLUDED IN THIS TABLE:	
1) DOAS 1: 120 MBH 2) CU-1: 177.2 MBH 2) CU-2: 177.6 MBH	

HEATING CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THE HEATING SYSTEM WILL HEAT ALL ROOMS REGULARLY OCCUPIED BY HUMANS TO AN INDOOR TEMPERATURE OF 68 DEGREES F WHEN THE OUTDOOR TEMPERATURE IS -10 DEGREES F PER SECTIONS 34(13-196-410) AND 4(5-4-270) OF THE CHICAGO BUILDING CODE.

SIGNED: _____

PUBLIC BUILDING COMMISSION — CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL SCHEDULES

Sheet M200

GAS FIRED/ DIRECT EXPANSION ROOFTOP UNIT SCHEDULE (RTU)

		REFRIGERANT DATA			DESIGN AIR TEMPERATURES			COOLING CAPACITY							HEATING CAPACITY						FAN/MOTOR DATA								FILTERS		ELECTRICAL DATA								
					SUMMER		WINTER														SUPPLY				RET/EXH				PRE										
TAG	LOCATION	REFRIGERATION TYPE	REFRIGERATION CHARGE (LBS)	SEER/EER/IEER	DB°F	WB°F	DB°F	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	COMPRESSOR QTY	STAGES	INPUT (MBH)	OUTPUT (MBH)	MAT (DB°F)	LAT (DB°F)	AFUE %	STAGES	SA CFM	OA CFM	HP	E.S.P. (IN W.C.)	RA CFM	HP	E.S.P. (IN W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
1	ROOF	R410A	41.4	9.5 / 15.4	81	66	-10	366.6	288	81	66	54	54	3	0	400	324	45	75	0		10000	3000	7.7	3.60	7500	3	0.50	MERV 13	4	220	250	208	3	60	8263	DAIKIN	DPSA034	
2	ROOF	R410A	41.4	9.5 / 15.4	81	66	-10	366.6	288	81	66	54	54	3	0	400	324	45	75	0		10000	3000	7.7	3.60	7500	3	0.50	MERV 13	4	220	250	208	3	60	8263	DAIKIN	DPSA034	
3	ROOF	R410A	41.4	9.5 / 15.4	81	66	-10	366.6	288	81	66	54	54	3	0	400	324	45	75	0		10000	3000	7.7	3.60	7500	3	0.50	MERV 13	4	220	250	208	3	60	8263	DAIKIN	DPSA034	

CHICAGO VENTILATION SCHEDULE

				CODE REQUIRED MECHANICAL VENTILATION			ACTUAL			EQUIPMENT	
ROOM NUMBER	ROOM NAME	ROOM TYPE	FLOOR AREA (SF)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN
102	EXIST. HEALTH LAB	LABORATORIES	818	982	327	982	1000	300	0	RTU-1	
102A	EXIST. NURSING OFFICE	OFFICES AND COMPUTER ROOMS	110	66	22	33	250	75	0	RTU-1	
103	EXIST. STOR.	STORAGE INACTIVE	85	0	0	0	250	75	0	RTU-1	EF-TLT
104	EXIST. MULTI- PURPOSE	CLASSROOMS/AUDITORIUMS	1052	1577	525	789	1200	360	0	RTU-1	
105	TUTORING CLASSROOM	CLASSROOMS/AUDITORIUMS	908	1361	453	681	1300	390	0	RTU-1	
108	EXIST. M. TOILET	TOILET ROOMS	346	0	0	692	500	150	0		EF-TLT
109	EXIST. J.C.	JANITOR'S CLOSET	26	0	0	52	0		0		EF-TLT
110	EXIST. W. TOILET	TOILET ROOMS	353	0	0	705	300	90	0		EF-TLT
111	EXIST. STORAGE	STORAGE INACTIVE	381	0	0	0	450	135	0	RTU-1	
111A	EXIST. STOR.	STORAGE INACTIVE	52	0	0	0	0		0		
111B	EXIST. UPS RM	STORAGE INACTIVE	173	0	0	0	0		0		
112	EXIST. MECH.	STORAGE INACTIVE	446	0	0	0	0		0		
113	EXIST. CORR.	CORRIDORS	137	0	0	0	0		0		
114	EXIST. ENGINEER'S OFFICE	OFFICES AND COMPUTER ROOMS	263	158	52	79	150	45	0	RTU-3	
115	EXIST. CLASSROOM	CLASSROOMS/AUDITORIUMS	1036	1554	518	777	1700	510	0	RTU-3	
116	EXIST. CLASSROOM	CLASSROOMS/AUDITORIUMS	501	751	250	375	725	218	0	RTU-3	
117	EXIST. CLASSROOM	CLASSROOMS/AUDITORIUMS	429	644	214	322	650	195	0	RTU-3	
124A	EXIST. COPY	OFFICES AND COMPUTER ROOMS	162	97	32	48	100	30	0	RTU-1	
124B	EXIST. AUX. OFF.	OFFICES AND COMPUTER ROOMS	183	110	36	55	300	90	0	RTU-1	
124C	EXIST. OFF.	OFFICES AND COMPUTER ROOMS	200	120	40	60	300	90	0	RTU-1	
124D	EXIST. OFF.	OFFICES AND COMPUTER ROOMS	110	66	22	33	0		0	RTU-1	
134	EXIST. BIOLOGY LAB	LABORATORIES	1129	1355	451	1355	1100	330	0	RTU-3	
135	EXIST. PREP	OFFICES AND COMPUTER ROOMS	288	173	58	86	850	255	0	RTU-3	EF-119
137	EXIST. BIOLOGY LAB	LABORATORIES	1066	1280	426	1280	1535	461	0	RTU-3	
145	EXIST. STOR.	STORAGE INACTIVE	26	0	0	0	0		0		
146	EXIST. RECEPTION	ENTRANCE LOBBY	570	570	190	0	600	180	0	RTU-1	
149	EXIST. CLASSRM	CLASSROOMS/AUDITORIUMS	787	1180	393	590	950	285	0	RTU-3	
150	EXIST. CLASSRM	CLASSROOMS/AUDITORIUMS	779	1169	389	584	1100	330	0	RTU-3	
152	EXIST. M. TOILET	TOILET ROOMS	112	0	0	224	0		0		
153	EXIST. FACULTY LOUNGE	OFFICES AND COMPUTER ROOMS	441	265	88	132	600	180	0	RTU-2	
154	EXIST. CONF.	OFFICES AND COMPUTER ROOMS	760	456	152	228	1100	330	0	RTU-2	
155	EXIST. TESTING LAB	LABORATORIES	913	1095	365	1095	1400	420	0	RTU-2	
156	EXIST. COMPUTER LAB	OFFICES AND COMPUTER ROOMS	1151	691	230	345	1800	540	0	RTU-2	
157	EXIST. COMPUTER LAB	OFFICES AND COMPUTER ROOMS	1131	679	226	339	1800	540	0	RTU-2	
158	EXIST. CIRCULATION SPACE	CORRIDORS	2256	0	0	0	780	234	0	RTU-1	
N003	RECEPTION	ENTRANCE LOBBY	136	136	45	0	125	0	0	DOAS-1, FCU-9	
N009	STORAGE	STORAGE INACTIVE	66	0	0	0	0		0		
N010	JC	JANITOR'S CLOSET	22	0	0	44	0		0		
N011	ALL GENDER TLT	TOILET ROOMS	64	0	0	128	0		75		EF-2
N012	ALL GENDER TLT	TOILET ROOMS	66	0	0	131	0		75		EF-2
N101	LOBBY	ENTRANCE LOBBY	1234	1234	411	0	4360	500	0	DOAS-1, FCU-7, FCU-8, FCU-9	
N101A	SECURITY	OFFICES AND COMPUTER ROOMS	146	88	29	44	95	20	0	DOAS-1, FCU-9	
N101B	ELEC	STORAGE INACTIVE	59	0	0	0	50		0	FCU-9	
N121	VESTIBULE	CORRIDORS	92	0	0	0	0		0		
N122	VESTIBULE	CORRIDORS	91	0	0	0	0		0		
N136	ASSEMBLY HALL	PUBLIC DINIG ROOMS - NO COOKING EQUIPMENT	3105	4658	1551	4658	775	1550	0	DOAS-1, FCU-2, FCU-3, FCU-4, FCU-5	DOAS-1
N139	W. TOILET	TOILET ROOMS	169	0	0	337	335		325	DOAS-1, FCU-6	DOAS-1
N140	M. TOILET	TOILET ROOMS	170	0	0	339	335		325	DOAS-1, FCU-6	DOAS-1
N141	CHAIR STOR.	STORAGE INACTIVE	257	0	0	0	210		0	DOAS-1, FCU-1	
N142	CATERING	LUNCH ROOMS - NO COOKING	235	352	117	352	395	115	0	DOAS-1, FCU-1	
N143	VEST.	CORRIDORS	246	0	0	0	130	130	0	DOAS-1, FCU-6	
N144	STORAGE	STORAGE INACTIVE	163	0	0	0	0		0		
N147	LOUNGE	LOUNGE/BAR	209	209	70	313	0		0	DOAS-1, FCU-6	
N148	OPERABLE PARTITION CLOSET	STORAGE INACTIVE	58	0	0	0	0		0		
ST-2-2	EXIST. STAIR-2	STORAGE INACTIVE	83	0	0	0	0		0		
ST-3-2	EXIST. STAIR-2	STORAGE INACTIVE	103	0	0	0	0		0		
ST-56	CORRIDOR	CORRIDORS	569	0	0	0	200		0		
			26519	23074	7684	18290	29800	9152	800		

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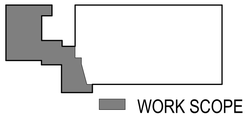
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

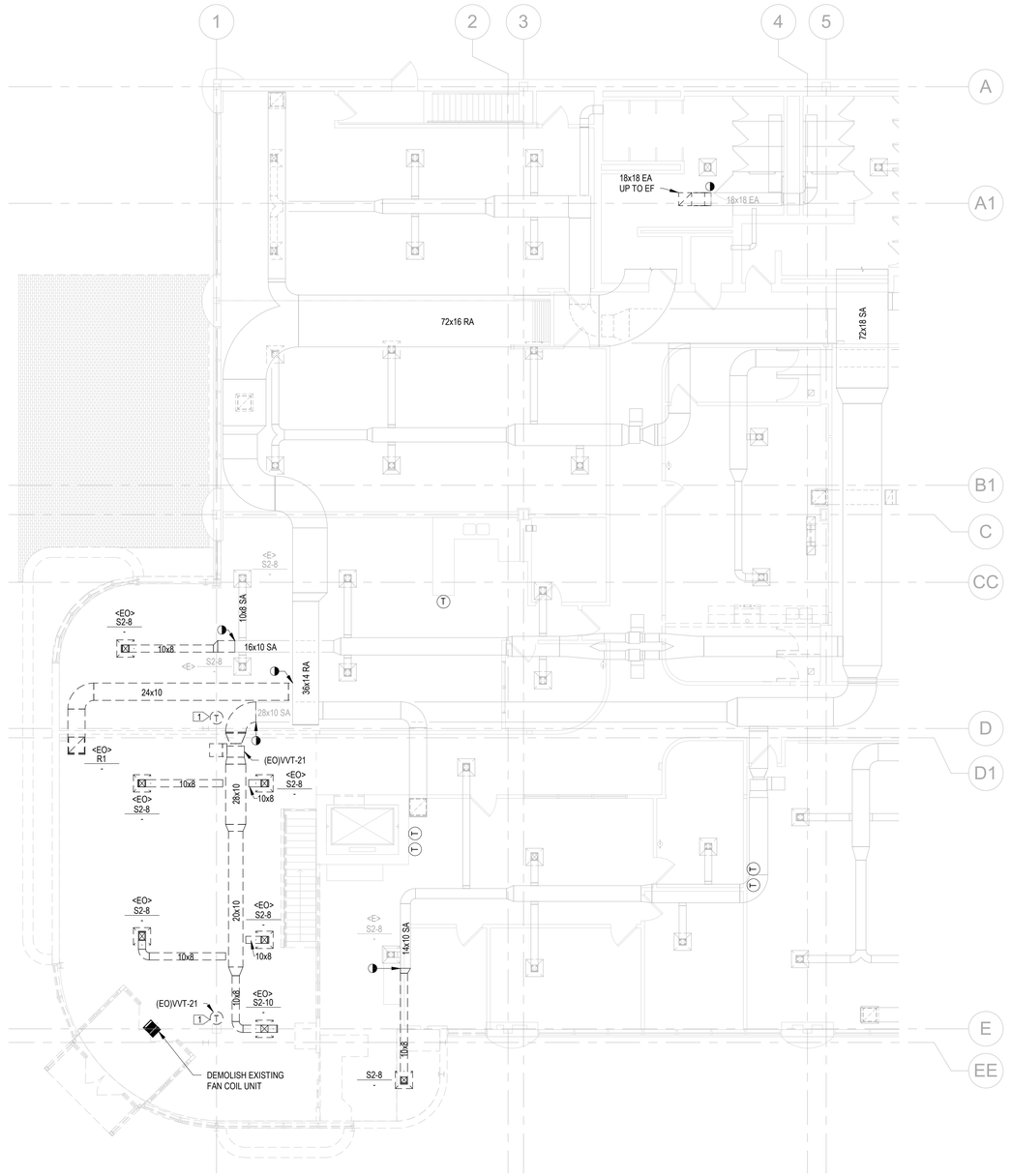
Title
MECHANICAL SCHEDULES

Sheet
M201



 # KEYNOTES

1 DEMOLISH EXISTING BASEBOARD THERMOSTAT AND ASSOCIATED CONTROL WIRING.



1 MECHANICAL - MAIN LEVEL DEMOLITION

1/8" = 1'-0"

0 4" 8" 16"

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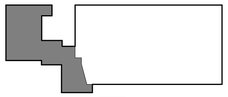
MECHANICAL MAIN LEVEL DUCTWORK DEMOLITION

Sheet MD300

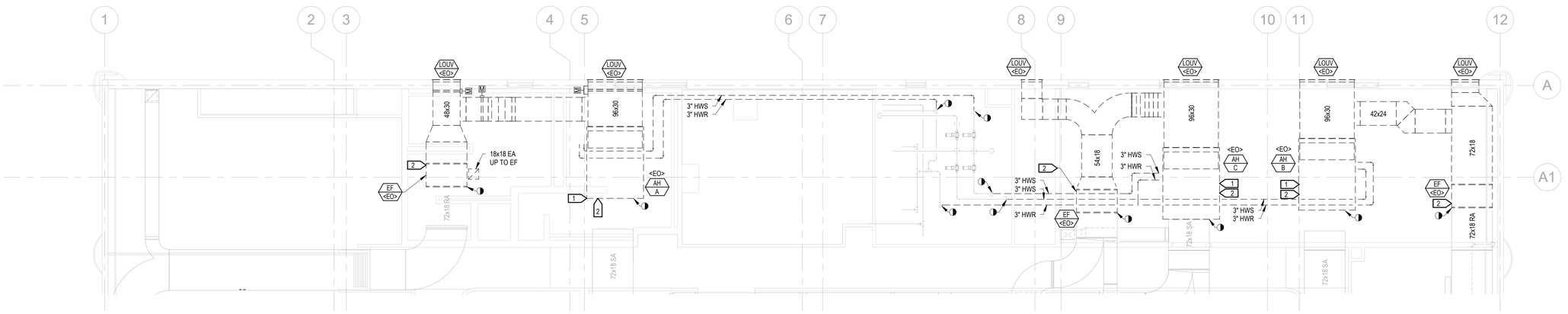


GENERAL NOTES:

1. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS THAT WERE PROVIDED AT THE TIME OF DESIGN AND MAY NOT REFLECT THE ACTUAL INSTALLED CONDITIONS. IF DISCREPANCIES ARE FOUND THE ENGINEER OF RECORD SHALL BE INFORMED OF SUCH DISCREPANCIES FOR REVIEW.
2. PRECONSTRUCTION TEST AND BALANCING SHALL BE PERFORMED AND A REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF DEMOLITION WORK. AIR TERMINALS, TERMINAL UNITS, DUCTWORK, AND CONTROL VALVES THAT ARE TO REMAIN SHALL BE RETURNED TO THE ORIGINAL AIRFLOW UNLESS NOTED OTHERWISE ON THE NEW WORK PLANS.
3. ALL PNEUMATIC VALVES, THERMOSTATS, AND ACTUATORS WITHIN THE CONSTRUCTION LIMITS SHALL BE INDICATED ON THE PLANS AND BROUGHT TO THE OWNER'S ATTENTION.
4. REMOVE ALL DUCTWORK AND PIPING BACK TO THE MAIN AND CAP UNLESS SHOWN TO BE REUSED ON NEW WORK PLANS.
5. REMOVE ALL ABANDONED DUCTS, PIPES, HANGERS, STRAPS, AND MECHANICAL CONTROL WIRING WITHIN CONSTRUCTION LIMITS WHETHER DIRECTLY AFFECTED BY THIS PROJECT OR NOT.
6. SALVAGE AND STORE ALL DIFFUSERS AND GRILLES REMOVED AS A PART OF DEMOLITION. WHERE APPLICABLE, DIFFUSERS AND GRILLES SHALL BE REUSED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON NEW WORK PLANS.
7. ANY EQUIPMENT REMOVED AS A PART OF DEMOLITION AND NOT REUSED IN NEW CONSTRUCTION SHALL BE TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.

REFERENCE NOTES: <#>

1. CONTRACTOR TO REMOVE ALL ASSOCIATED REFRIGERANT PIPING.
2. CONTRACTOR TO REMOVE ALL ASSOCIATED CONTROLS COMPONENTS.



1 **MECHANICAL - MEZZANINE DEMOLITION**

1/8" = 1'-0"

0 4' 8' 16'

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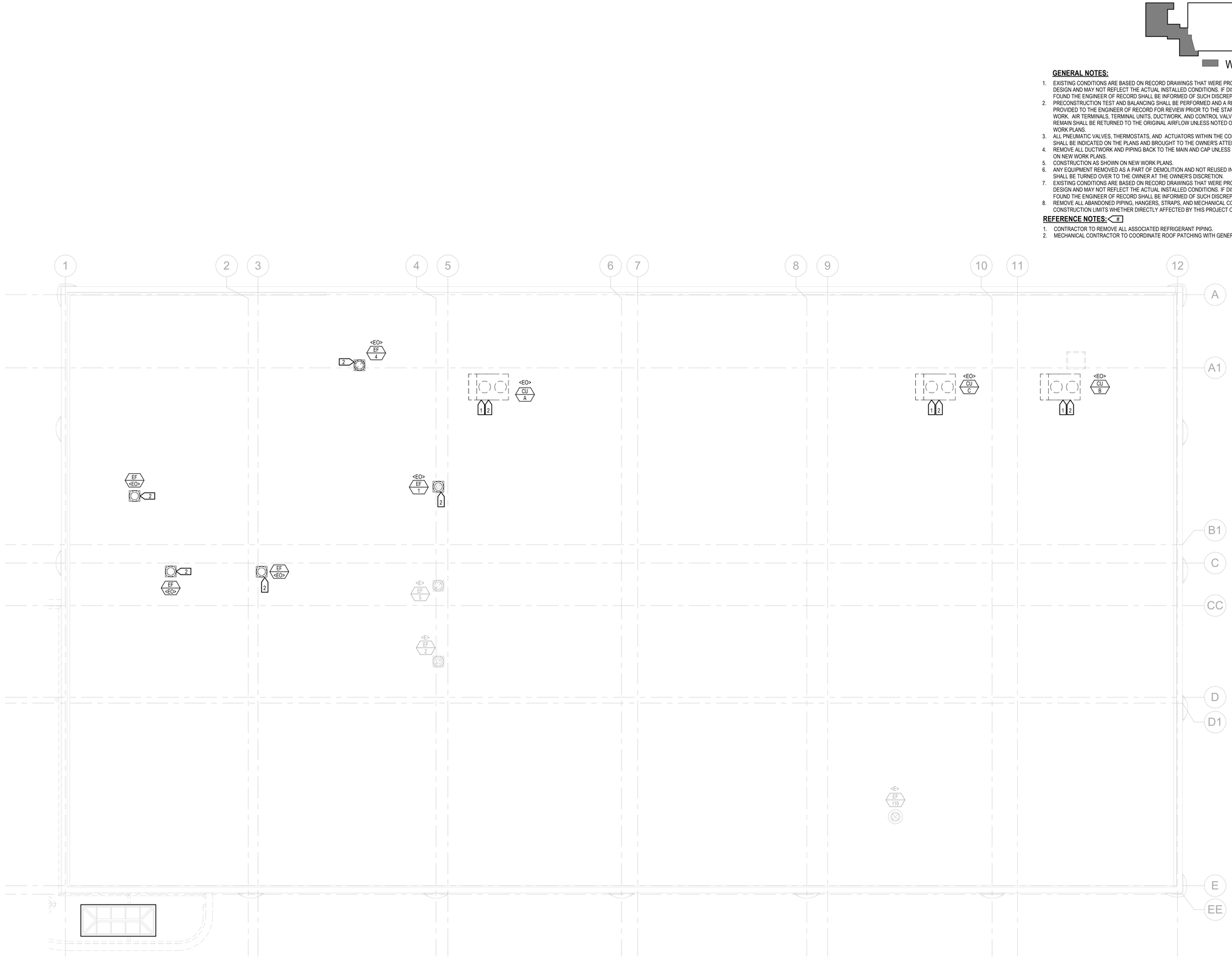
MECHANICAL MEZZANINE DEMOLITION

Sheet
MD301



GENERAL NOTES:

1. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS THAT WERE PROVIDED AT THE TIME OF DESIGN AND MAY NOT REFLECT THE ACTUAL INSTALLED CONDITIONS. IF DISCREPANCIES ARE FOUND THE ENGINEER OF RECORD SHALL BE INFORMED OF SUCH DISCREPANCIES FOR REVIEW.
2. PRECONSTRUCTION TEST AND BALANCING SHALL BE PERFORMED AND A REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF DEMOLITION WORK. AIR TERMINALS, TERMINAL UNITS, DUCTWORK, AND CONTROL VALVES THAT ARE TO REMAIN SHALL BE RETURNED TO THE ORIGINAL AIRFLOW UNLESS NOTED OTHERWISE ON THE NEW WORK PLANS.
3. ALL PNEUMATIC VALVES, THERMOSTATS, AND ACTUATORS WITHIN THE CONSTRUCTION LIMITS SHALL BE INDICATED ON THE PLANS AND BROUGHT TO THE OWNER'S ATTENTION.
4. REMOVE ALL DUCTWORK AND PIPING BACK TO THE MAIN AND CAP UNLESS SHOWN TO BE REUSED ON NEW WORK PLANS.
5. CONSTRUCTION AS SHOWN ON NEW WORK PLANS.
6. ANY EQUIPMENT REMOVED AS A PART OF DEMOLITION AND NOT REUSED IN NEW CONSTRUCTION SHALL BE TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
7. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS THAT WERE PROVIDED AT THE TIME OF DESIGN AND MAY NOT REFLECT THE ACTUAL INSTALLED CONDITIONS. IF DISCREPANCIES ARE FOUND THE ENGINEER OF RECORD SHALL BE INFORMED OF SUCH DISCREPANCIES FOR REVIEW.
8. REMOVE ALL ABANDONED PIPING, HANGERS, STRAPS, AND MECHANICAL CONTROL WIRING WITHIN CONSTRUCTION LIMITS WHETHER DIRECTLY AFFECTED BY THIS PROJECT OR NOT.

REFERENCE NOTES: <#>

1. CONTRACTOR TO REMOVE ALL ASSOCIATED REFRIGERANT PIPING.
2. MECHANICAL CONTRACTOR TO COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.

1 **MECHANICAL - ROOF DEMOLITION**
1/8" = 1'-0"

0 4' 8' 16'

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CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
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CITY OF CHICAGO, MAYOR BRANDON JOHNSON

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Civil Engineers of Record

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HUS Architecture
2202 S. Halsted Street.
Chicago, IL 60608
312-224-8048
LEED Consultant

Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

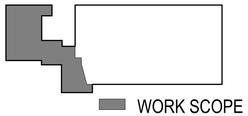
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL ROOF DEMOLITION

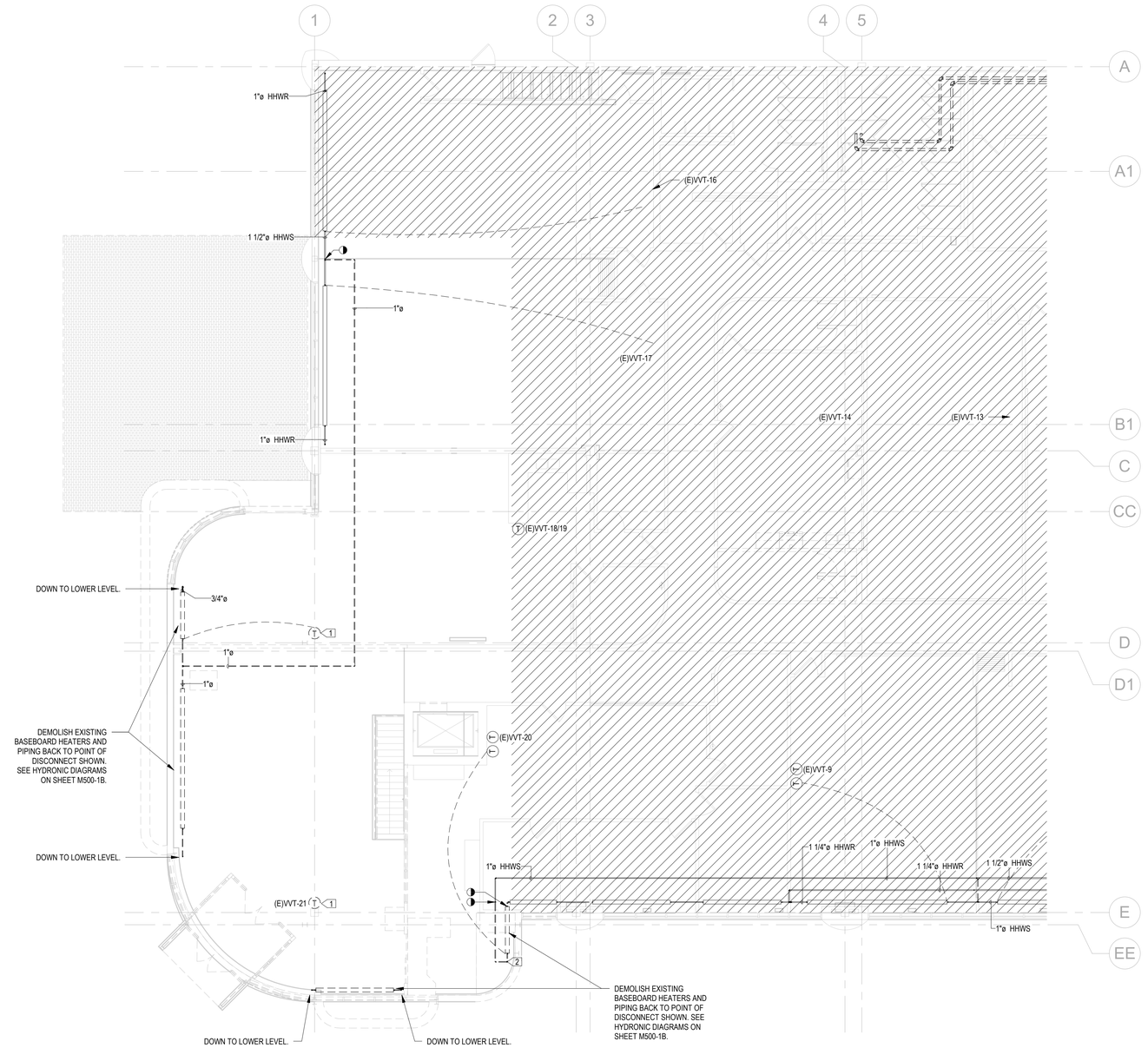
Sheet MD302



 # KEYNOTES

1 DEMOLISH EXISTING BASEBOARD THERMOSTAT AND ASSOCIATED CONTROL WIRING.

2 REMOVE AND RETAIN HYDRONIC CONTROL VALVE AND CONTROL WIRING FOR FUTURE REINSTALLATION.



1 MECHANICAL - MAIN LEVEL HYDRONIC DEMOLITION

1/8" = 1'-0"

0 4' 8' 16'

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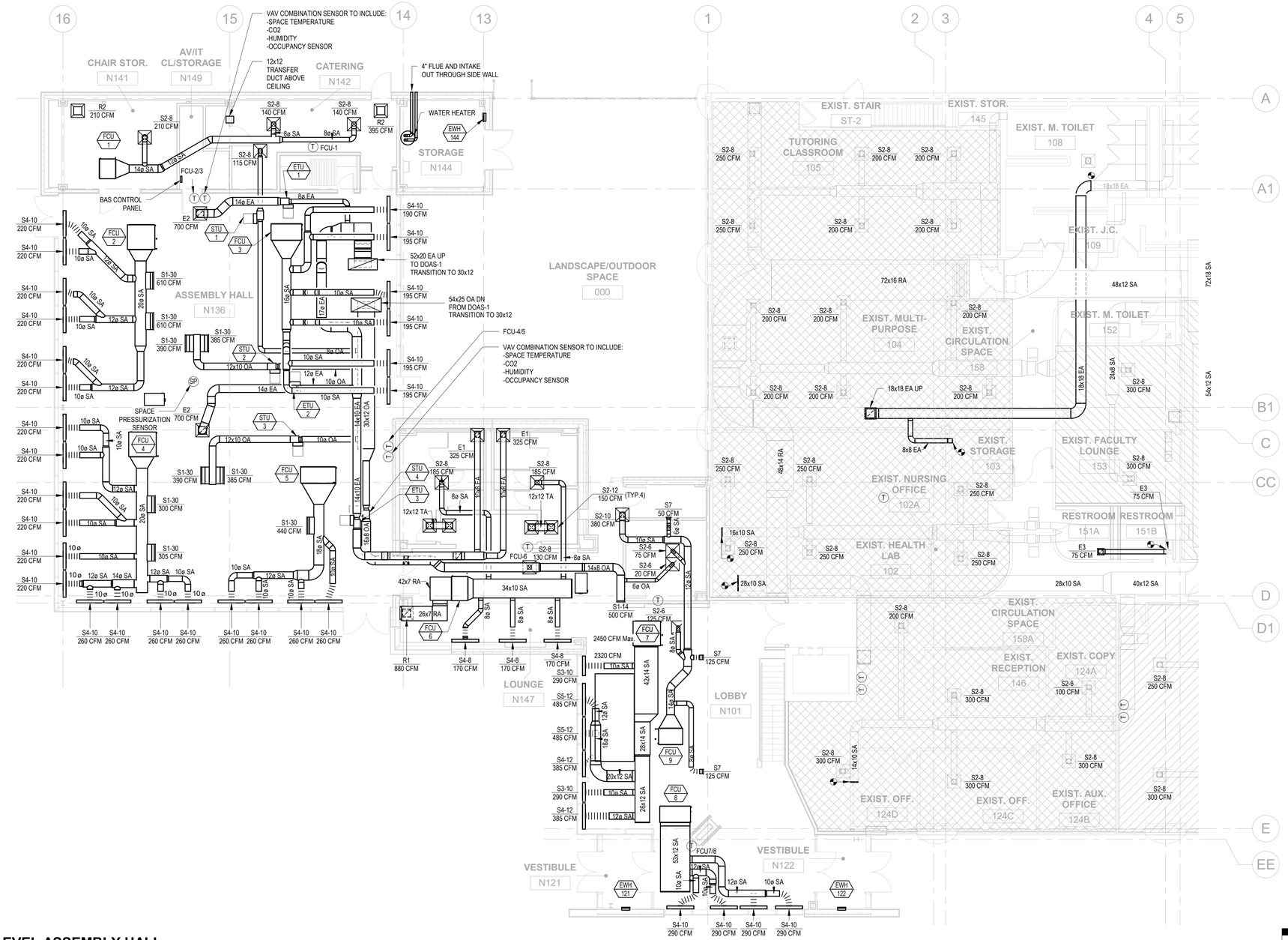
Title
MECHANICAL MAIN LEVEL HYDRONIC DEMOLITION

Sheet MD400



1 **MECHANICAL - UPPER LEVEL ASSEMBLY HALL**

1/8" = 1'-0"

0 4' 8' 16'

WORK SCOPE

GENERAL NOTES:

1. COORDINATE ALL DUCTWORK WITH OPENINGS IN CEILING JOISTS.

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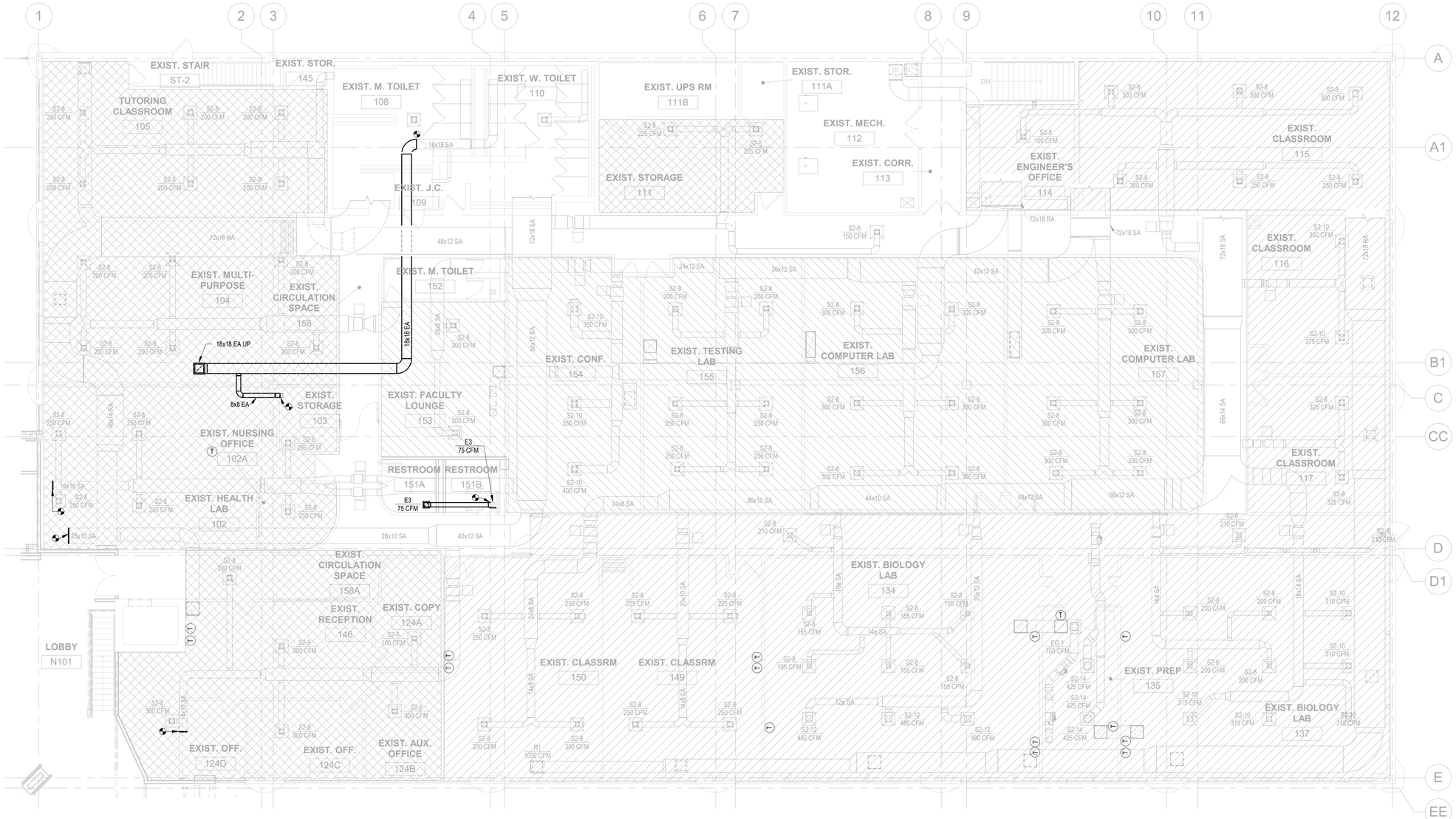
Title

MECHANICAL MAIN LEVEL ASSEMBLY HALL

Sheet M300



1 **MECHANICAL - MAIN LEVEL EXISTING FACILITY**

1/8" = 1'-0"

0 4' 8' 16'

BIM 360://Malcom X West Side Learning Center Addition and Renovation/022131_MXC WSLC COMM RM AND EXISTING RENOVATION_MEP21.rvt
3/12/2024 10:56:12 AM

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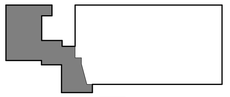
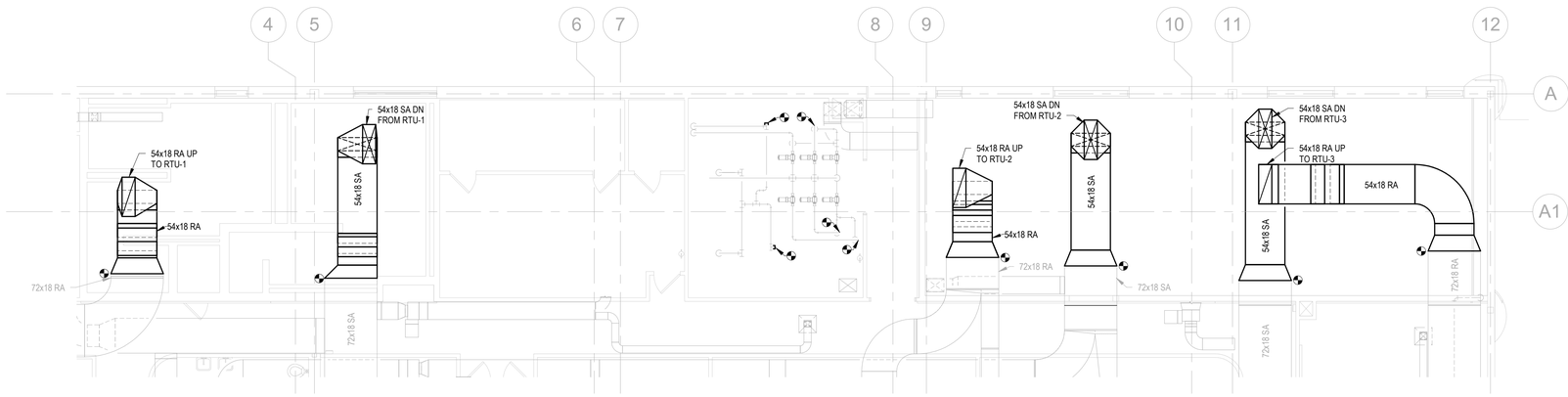
Title
MECHANICAL MAIN LEVEL EXISTING FACILITY

Sheet
M301





1 **MECHANICAL - UPPER LEVEL EXISTING FACILITY - MEZZANINE PLAN**

1/8" = 1'-0"

0 4' 8' 16'

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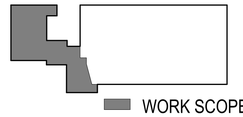
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL EXISTING FACILITY MEZZANINE

Sheet M302



GENERAL NOTES:

1. REFRIGERANT LINES MAY NOT BE LOCATED IN ANY ELEVATOR, DUMBWAITER, OR SHAFT CONTAINING MOVING OBJECTS OR IN STAIRWELLS OR OTHER MEANS OF EXIT.
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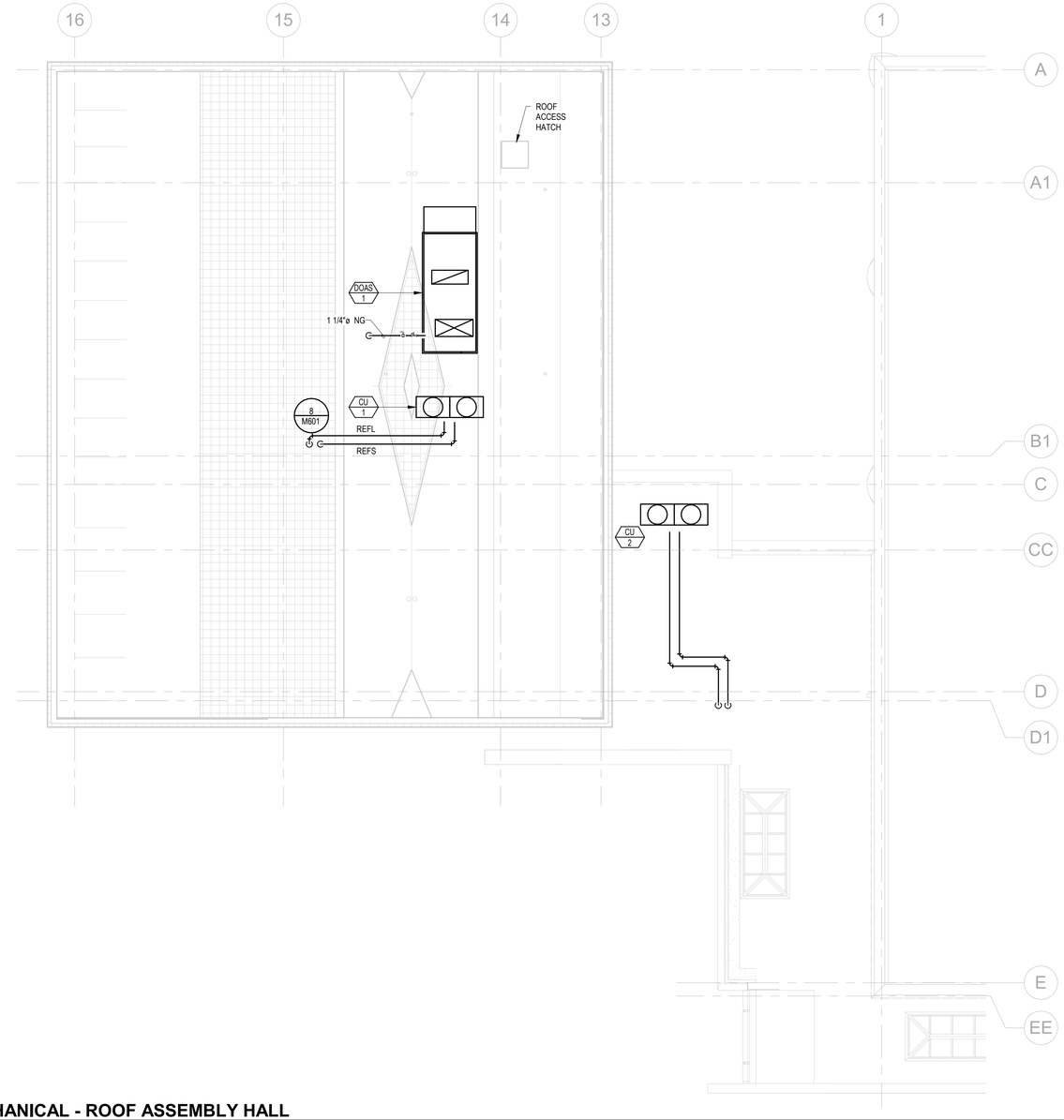
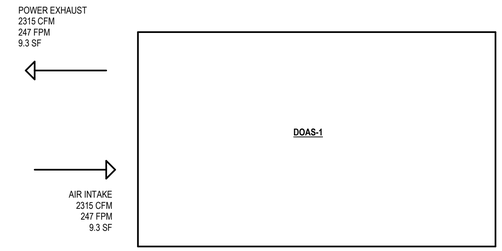


1 MECHANICAL - ROOF ASSEMBLY HALL

1/8" = 1'-0"



2 DOAS AIR INTAKE DIAGRAM

NOT TO SCALE

0 4' 8' 16'

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WSLC ADDITION & RENOVATIONS

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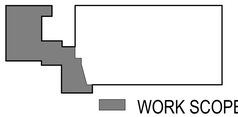
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL ROOF ASSEMBLY HALL

Sheet M303



GENERAL NOTES:

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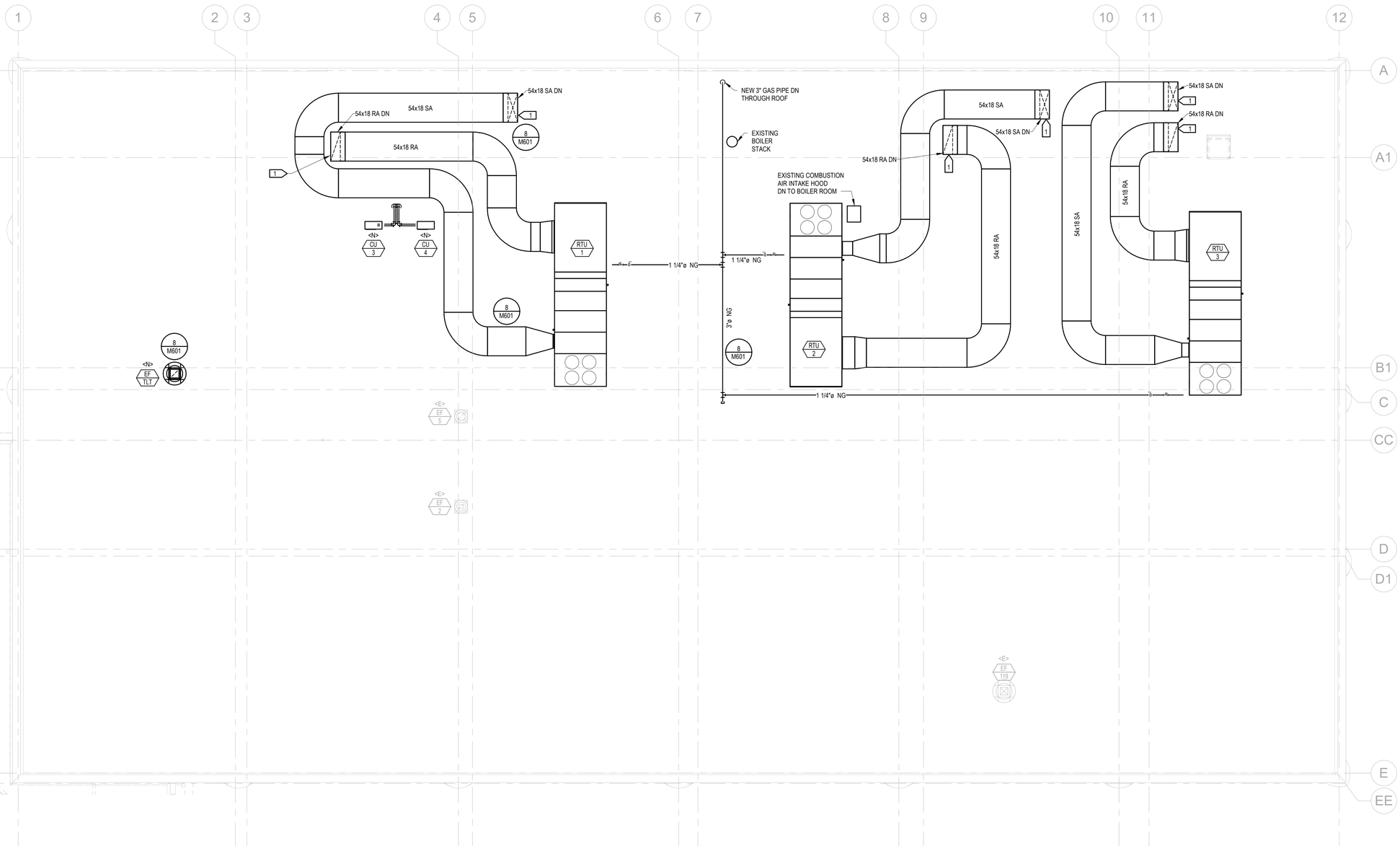
REFERENCE NOTES: <#>

1. NEW 54x18 DUCT PENETRATION DOWN TO MEZZANINE BELOW WITH ROOF DUCT CURB.



1 MECHANICAL - ROOF EXISTING FACILITY

1/8" = 1'-0"

0 4' 8' 16'

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WSLC ADDITION & RENOVATIONS

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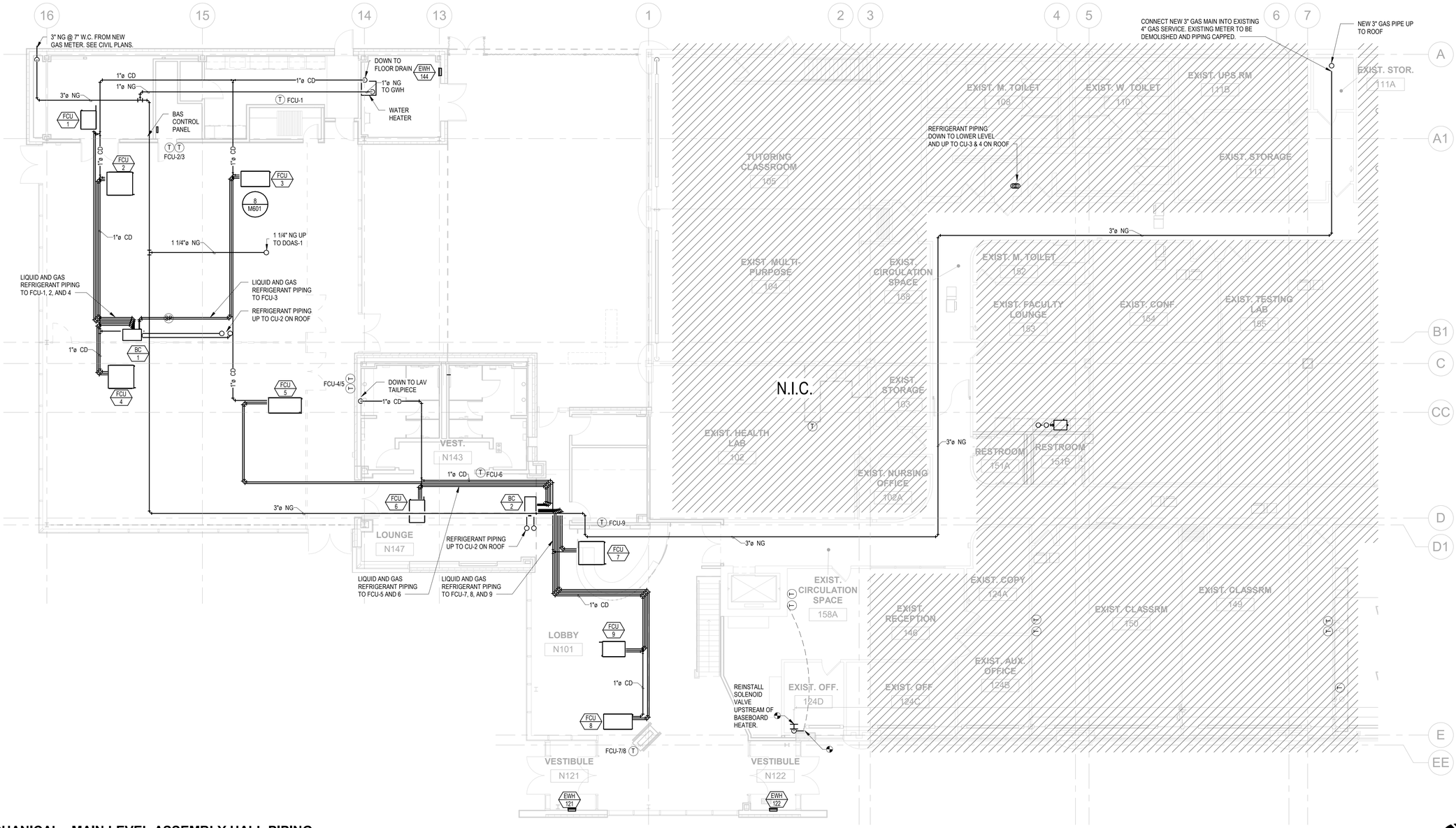
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL ROOF EXISTING FACILITY

Sheet M304



1 MECHANICAL - MAIN LEVEL ASSEMBLY HALL PIPING

1/8" = 1'-0"

WORK SCOPE

GENERAL NOTES:

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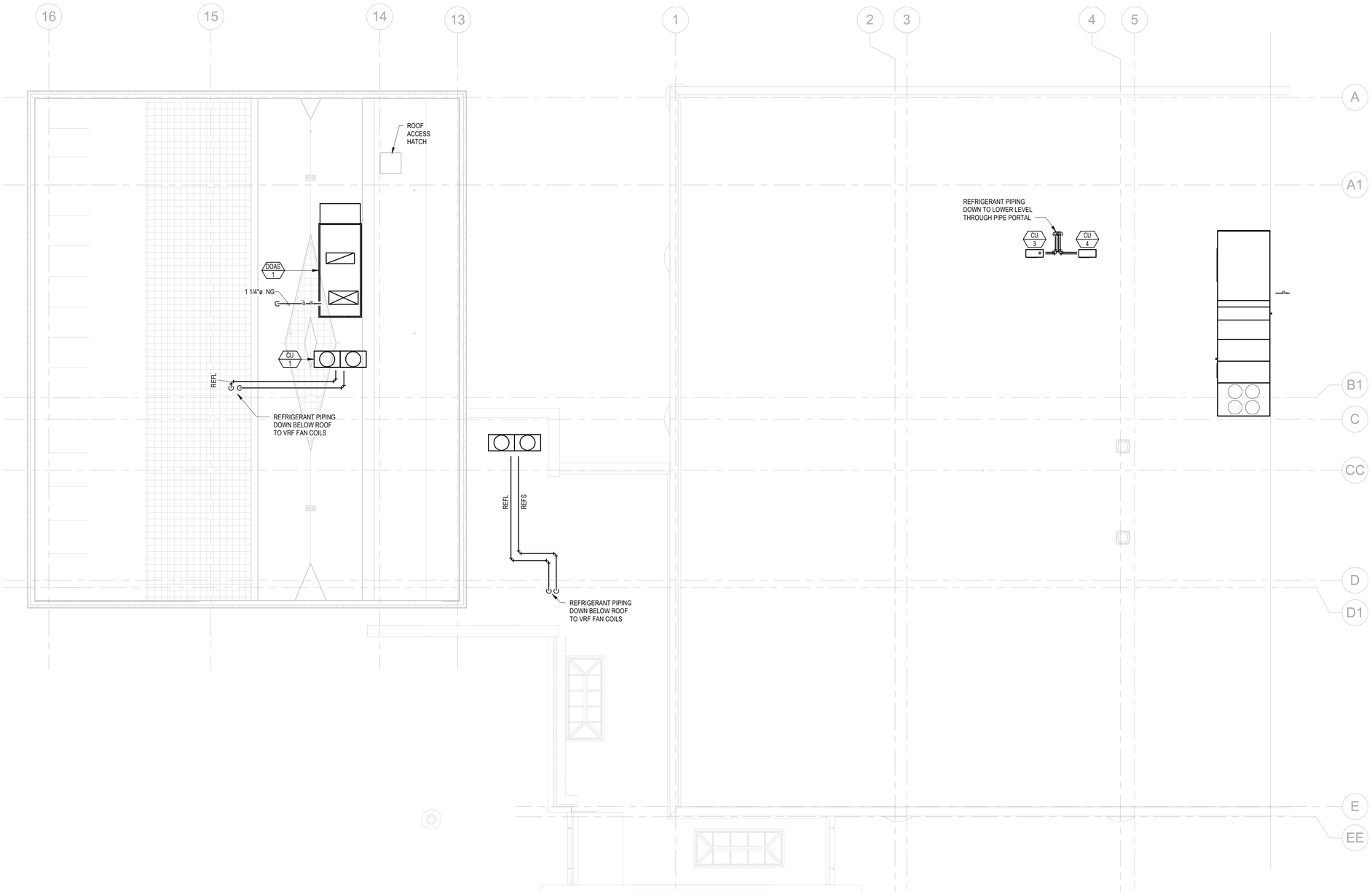
Project No.: BED 022137 / PBC 03720

Title
MECHANICAL PIPING MAIN LEVEL

Sheet M400

0 4' 8' 16'



WORK SCOPE

1 **MECHANICAL PIPING - ASSEMBLY ROOF**

1/8" = 1'-0"

0 4' 8' 16'

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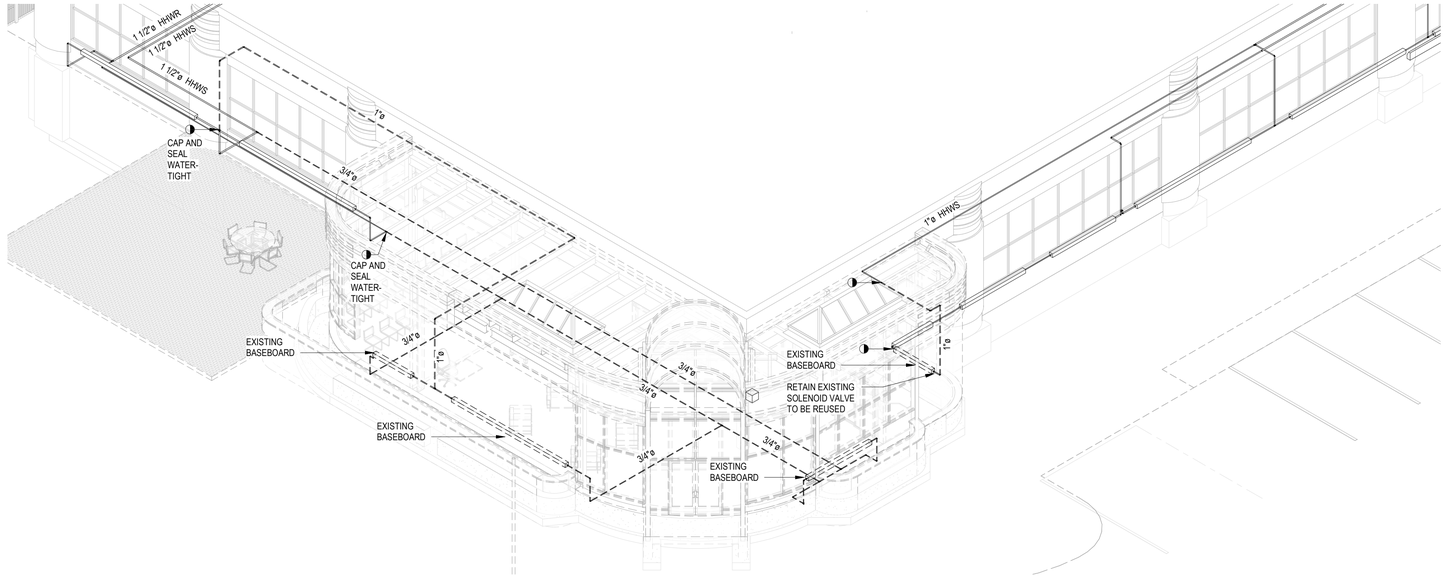
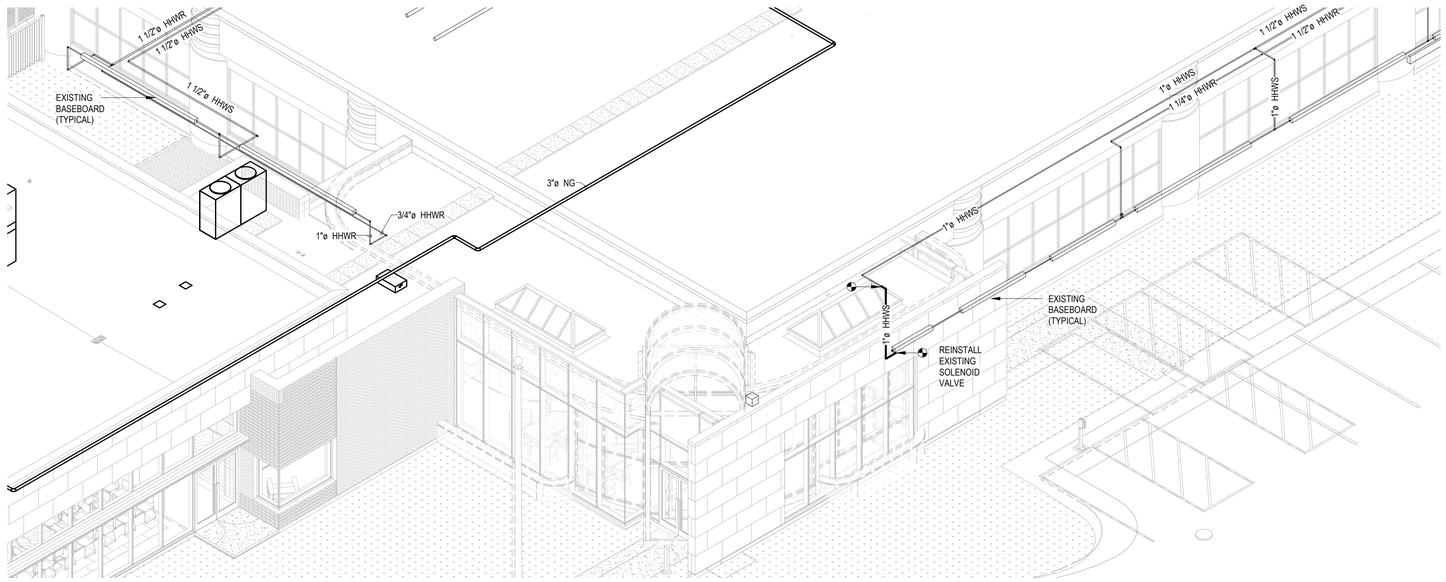
MECHANICAL PIPING ROOF

Sheet M401



1 HYDRONIC DEMOLITION DIAGRAM



2 HYDRONIC RENOVATION DIAGRAM

GENERAL NOTES:
1. HYDRONIC BASEBOARD SYSTEM TO BE REBALANCED AS PART OF THE RENOVATION.
2. ACCESS TO THE LOWER LEVEL CEILING WILL BE REQUIRED FOR HYDRONIC WORK.

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MECHANICAL HYDRONIC DIAGRAM

Sheet
M500

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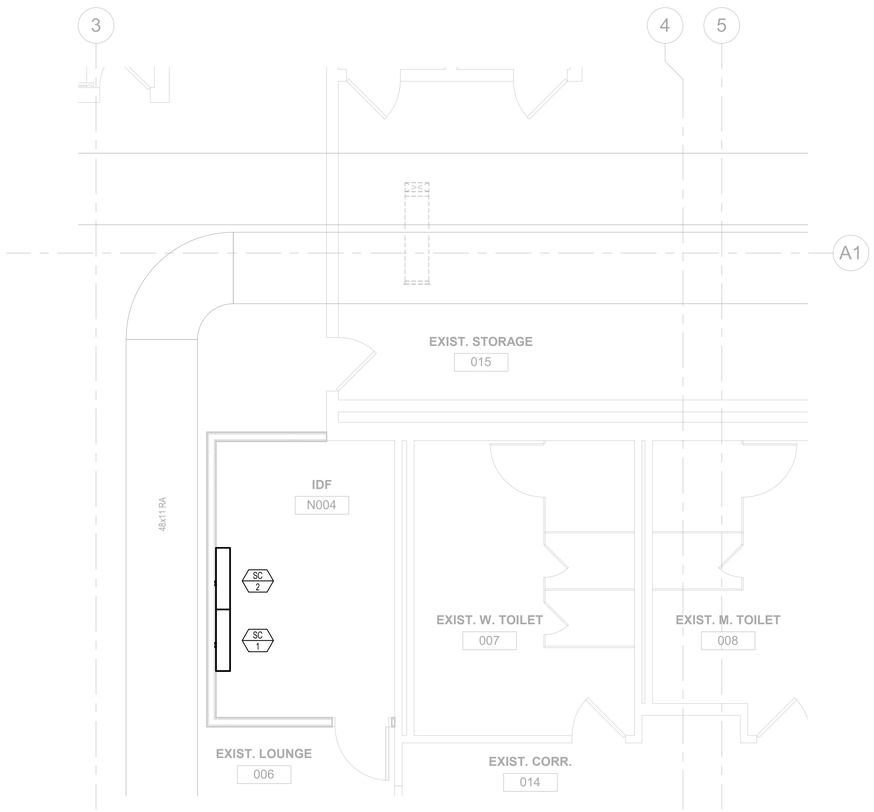
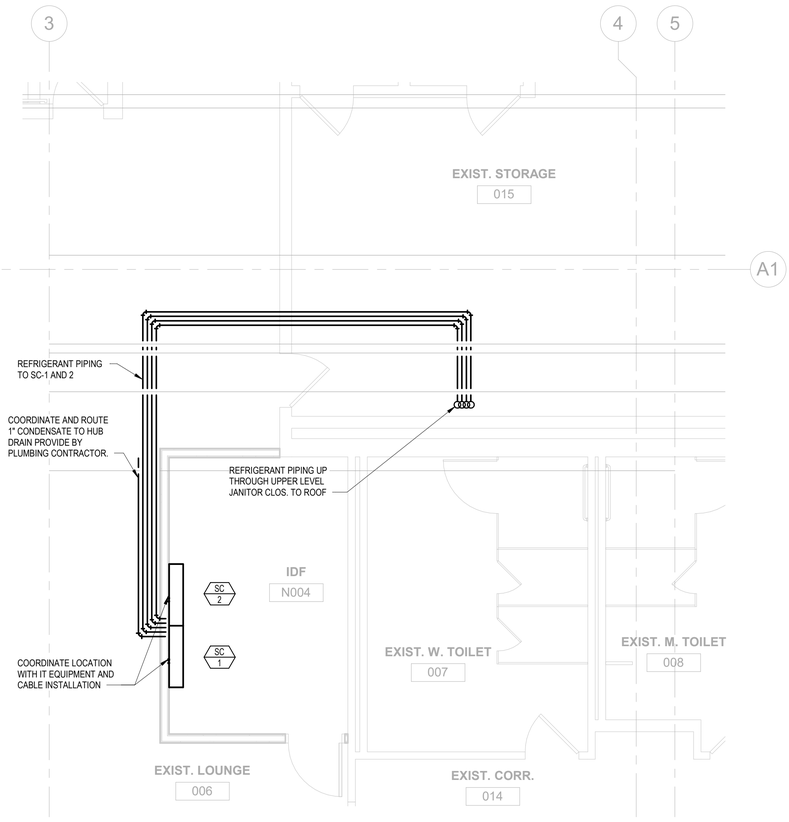


1 **MECHANICAL - LOWER LEVEL EXISTING FACILITY**
1/4" = 1'-0"



2 **MECHANICAL - LOWER LEVEL EXISTING FACILITY PIPING**
1/4" = 1'-0"

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CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
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Issuance

Mark	Description	Date
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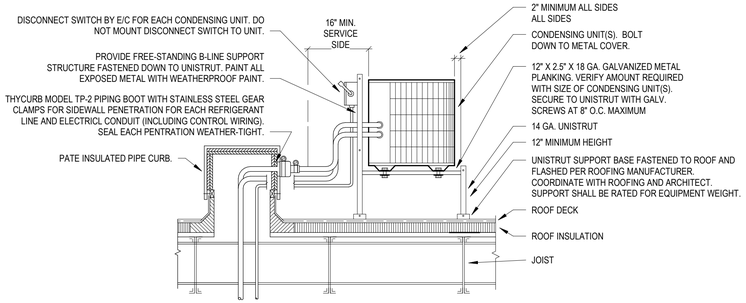
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

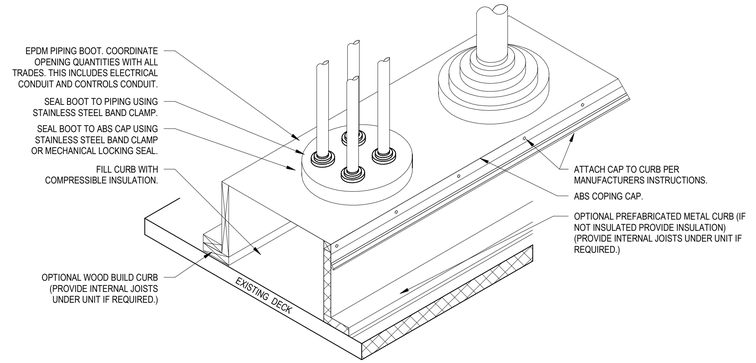
Title
ENLARGED MECHANICAL PLANS - N004 IDF

Sheet
M501



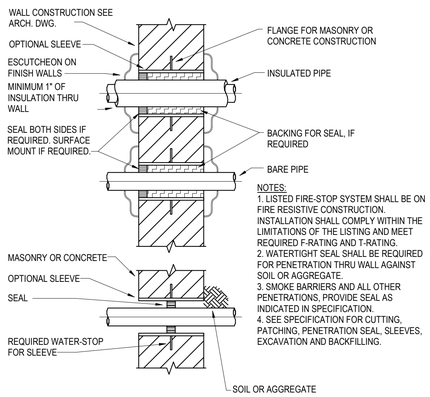
8 ROOF MOUNTED CONDENSING UNIT DETAIL

NOT TO SCALE



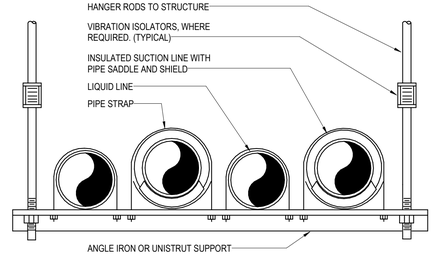
7 MULTIPLE PIPE PENETRATIONS THRU ROOF DETAIL

NOT TO SCALE



6 PIPING PENETRATION THRU WALL

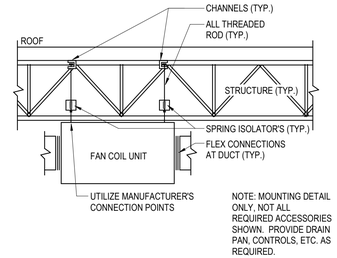
NOT TO SCALE



NOTE: REFER TO STRUCTURAL FOR METHOD OF SUSPENSION FROM STRUCTURE.

5 HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL

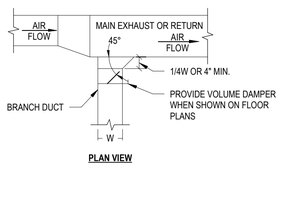
NOT TO SCALE



NOTE: MOUNTING DETAIL ONLY, NOT ALL REQUIRED ACCESSORIES SHOWN. PROVIDE DRAIN PAN, CONTROLS, ETC. AS REQUIRED.

4 FAN COIL UNIT MOUNTING DETAIL

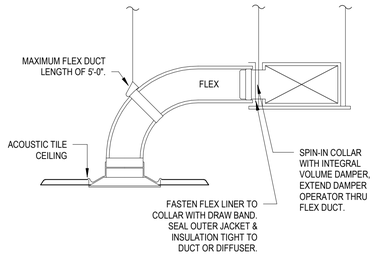
NOT TO SCALE



PLAN VIEW

3 EXHAUST OR RETURN BRANCH DUCTOWRK DETAIL

NOT TO SCALE



2 CEILING DIFFUSER TO DUCT CONNECTION DETAIL

NOT TO SCALE

BRANCH TAKE-OFF RECTANGULAR TO RECTANGULAR	L= .25D (4"MIN.) 45° D L	BRANCH TAKE-OFF RECTANGULAR TO ROUND	L= .25D (4" MIN.) D L
BRANCH TAKE-OFF ROUND TO ROUND	L= 5.25 IN. L	TRANSITION FITTING	20° 30°
STANDARD ELBOW	D R R = 1 x D (MIN.)	TEE	R L D R = 1 x D (MIN.)
SHORT ELBOW	VANE S R W IF R IS LESS THAN W THEN S = 1/3 W	SHORT TEE	W 1/3W
SINGLE DIRECTION TRANSITION USE SIMILAR TRANSITION WHEN FEEDING UP TO CEILING CAVITY	FLOOR DROP CEILING	SPLIT DIRECTION TRANSITION USE SIMILAR TRANSITION WHEN FEEDING UP TO CEILING CAVITY	FLOOR DROP CEILING

1 TYPICAL DUCT TAKE-OFFS DETAIL

NOT TO SCALE

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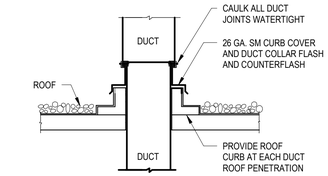
Project No.: BED 022137 / PBC 03720

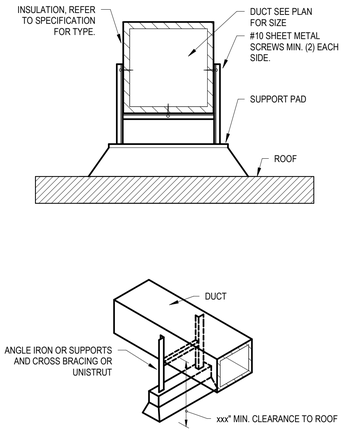
Title
MECHANICAL DETAILS

Sheet
M600

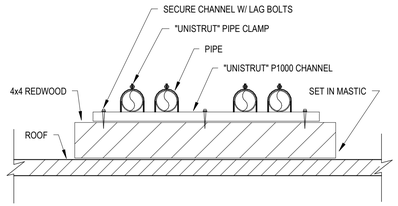


NOTE:
IF THE EXISTING ROOF SYSTEM CONTAINS ASBESTOS, REFER TO THE SPECIFICATIONS FOR INSTRUCTIONS REGARDING THE REMOVAL AND REPAIR OF THE ROOF. THE EXISTING ROOF SHALL BE CUT BACK 2'-0" BEYOND DECK OPENING, AND PATCHED PER SPECIFICATIONS.

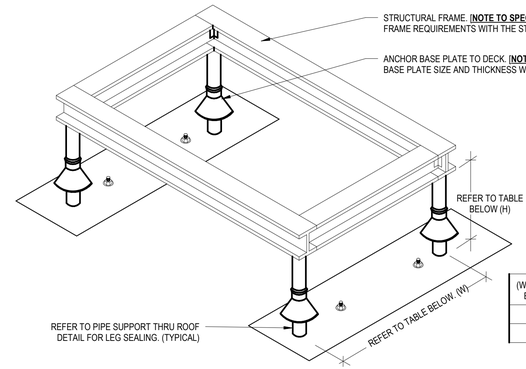
7 DUCT PENETRATION DETAIL THRU ROOF DETAIL
NOT TO SCALE



6 RAIL STYLE DUCT SUPPORT DETAIL ON ROOF
NOT TO SCALE



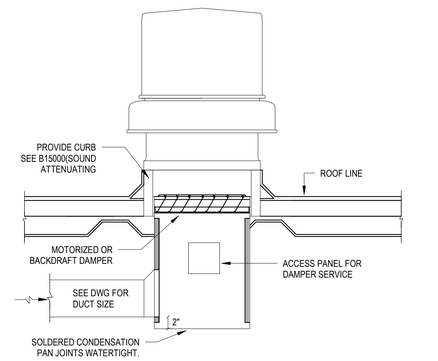
5 PIPING SUPPORT ON ROOF DETAIL
NOT TO SCALE



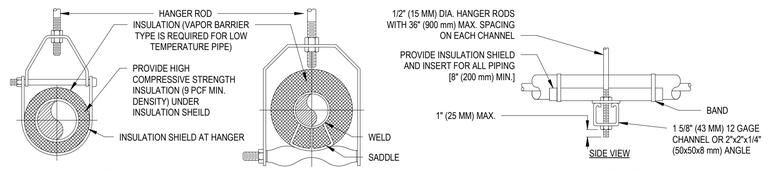
NOTES TO SPECIFIER:
1. COORDINATE ROOFING TYPE AND INCLUDE APPLICABLE PIPE THRU ROOF DETAIL(S).
2. COORDINATE PIPE DIAMETER AND STRUCTURAL
3. FRAME REQUIREMENTS WITH THE STRUCTURAL ENGINEER.

(W) WIDTH OR LENGTH OF EQUIPMENT/SUPPORT	(H) HEIGHT OF LEGS ABOVE FINISHED ROOF
UP TO 36"	18"
37" AND UP	36"

4 EQUIPMENT ROOF SUPPORT STAND DETAIL
NOT TO SCALE



3 POWER ROOF VENTILATOR DETAIL
NOT TO SCALE



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43- SEE SPECIFICATIONS

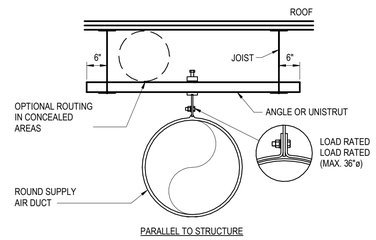
TRAPEZE HANGER FOR UP TO 1000 LB. (453 KG) UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																				
NOM. SIZE	IN. (MM)	THRU 3/4 THRU (20)	1 (25)	1 1/4 (32)	1 1/2 (40)	2 (50)	2 1/2 (65)	3 (75)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)
PIPE	FT. (M)	7 (2.1)	7 (2.1)	7 (2.1)	9 (2.7)	10 (3.0)	11 (3.4)	12 (3.7)	14 (4.1)	16 (4.9)	17 (5.2)	19 (5.8)	22 (6.7)	23 (7.0)	25 (7.6)	27 (8.2)	28 (8.5)	30 (9.1)	32 (9.6)
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
	(M)	5 FT	(1.8)	(2.1)	(2.4)	(2.4)	(2.7)	(3.0)	(3.7)	(4.0)	(4.1)	(4.9)	-	-	-	-	-	-	-

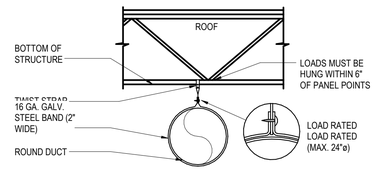
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

DESIGNER'S NOTE:
SHOW ON THE DRAWINGS OTHER SPECIFIED AND SPECIAL PIPE SUPPORTS WHERE REQUIRED.

2 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE



PARALLEL TO STRUCTURE



PERPENDICULAR TO STRUCTURE

NOTE:
FOR DUCTS LARGER THAN 36"ø, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.

1 DUCTWORK SUPPORT DETAIL
NOT TO SCALE

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Title
MECHANICAL DETAILS

Sheet M601

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Sheet M602

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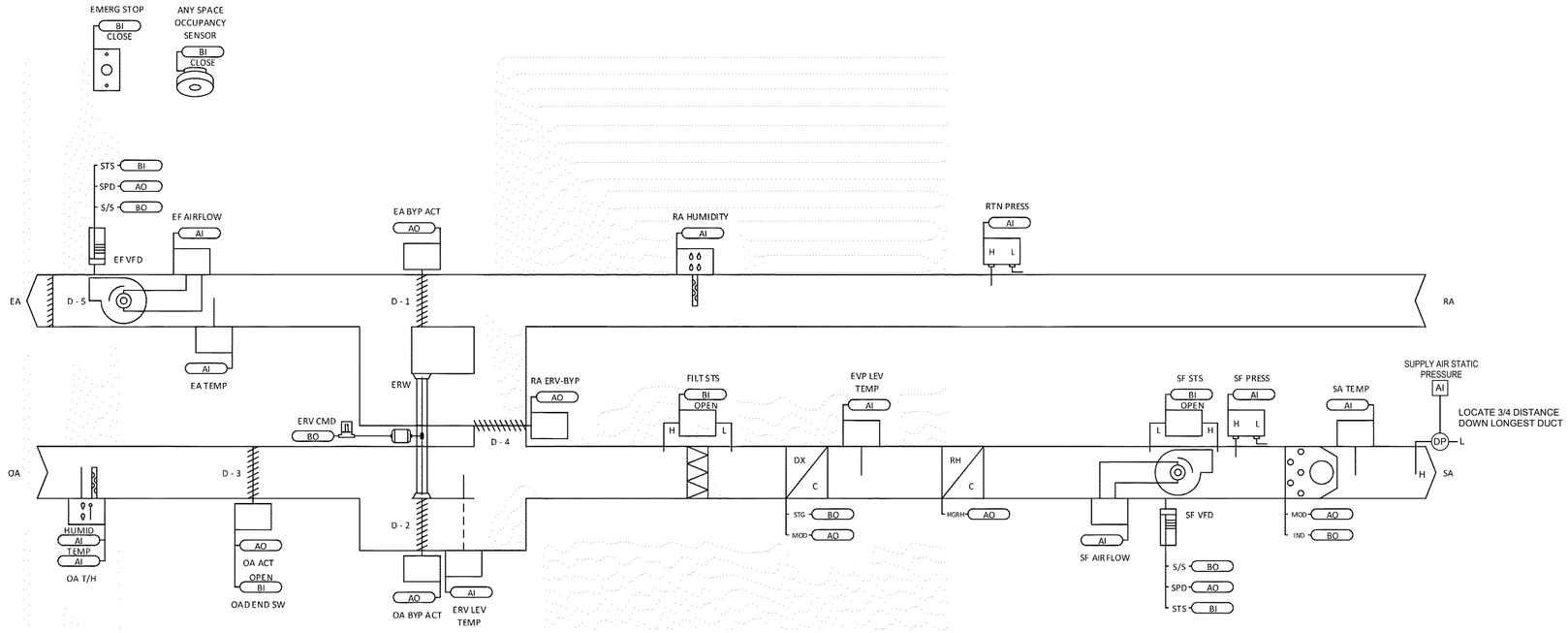
MECHANICAL CONTROLS LEGEND

Sheet M700

BAS SYSTEM REMARKS

1. JOBSITE EC TO PROVIDE 115/1 CIRCUIT IN CONTROL CLOSET FOR CONTROLLER POWER.
2. TCC TO PROVIDE ALL LOW VOLTAGE WIRING.
3. OWNER SHALL PROVIDE ETHERNET NETWORK DROP FOR INTERNET CONNECTION.
4. PROVIDE BACNET AND LONWORKS CERTIFIED FRONT END CAPABLE OF COMMUNICATING IN THE TWO SAID OPEN PROTOCOL BAS LANGUAGES.
5. WEB BASED OPERATION
6. CONTROL A MINIMUM OF 15 DEVICES AND FULLY EXPANDABLE TO CONTROL AT LEAST 120 DEVICES WITHOUT ADDING HARDWARE.
7. COMMUNICATIONS BETWEEN SYSTEM CONTROLLERS AND SUB-NETWORKS OF CUSTOM APPLICATION CONTROLLERS AND/OR APPLICATION SPECIFIC CONTROLLERS SHALL UTILIZE LONTALK (FTT10) OR BACNET MSTP (RS485) CERTIFIED COMMUNICATIONS.
8. CONTROLLERS MUST BE UL AND BTL LISTED, AND FCC COMPLIANT. MOUNT ALL CONTROLLERS IN CERTIFIED ENCLOSURES.
9. SYSTEM SHALL PROVIDE 365 DAY SCHEDULING, SYSTEM MONITORING, AND USER ALARM NOTIFICATION VIA EMAIL OR TEXT MESSAGE.
10. INDIVIDUAL ALARM CONFIGURATION SHALL BE ALLOWED FOR USER PRIORITY/SEVERITY SETTING TO ALLOW USER TO QUICKLY DIAGNOSE SEVERITY OF ALARMS (IF SEVERE, CRITICAL, ADVISORY, AND INFORMATIVE)
11. TREND LOGGING WITH MINIMUM TRENDING OF 5 POINTS OVER 7 DAYS WITH GRAPHICAL PLOTTING FOR ANALYSIS.
12. IOS (IPHONE, IPAD) & ANDROID APPLICATIONS FOR REMOTE MONITORING AND CONTROL.
13. PROVIDE WITH IPAD USER WORKSTATION FOR FRONT END. PROVIDE LOCKING NEMA ENCLOSURE TO HOUSE SYSTEM CONTROLLER AND IPAD WORKSTATION. ALTERNATIVELY PC WORKSTATION MAY BE PROVIDED.
14. PROVIDE WITH SYSTEM FLOORPLAN GRAPHICS FOR ALL SPACES CONTROLLED BY BAS.
15. A GRAPHIC SHALL BE PROVIDED FOR ALL EQUIPMENT AND EACH TAG CONTROLLED BY THE BAS
16. ADDITIONALLY, PROVIDE A SPECIFIC ROOFTOP EQUIPMENT DASHBOARD OVERVIEW GRAPHIC
17. RTU DASHBOARD SHALL PROVIDE USER WITH AN "AT-A-GLANCE" VIEW OF THE ROOFTOP SYSTEM OPERATION. INCLUDE: ALARM NOTIFICATION, RTU MODE OF OPERATION, UNIT LEAVING AIR TEMPERATURE , SPACE TEMPERATURE, SPACE TEMP SET POINT, SPACE CO2 CONCENTRATION, SPACE % RH, % COOLING, % HEATING, % FAN SPEED, OA DAMPER POSITION, OA TEMP/HUMIDITY AND USER OVERRIDE BUTTON.
18. PROVIDE A MINIMUM OF TWO, FOUR HOUR, OWNER TRAINING SESSIONS
19. PROVIDE 4 HOURS OF TEST AND BALANCE ASSISTANCE
20. BAS CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL EQUIPMENT INTEGRATION.



Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up, Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If communication is lost with the BAS the controller, the unit shall operate using default modes and setpoints. The BAS shall also send the controller a duct static pressure setpoint, discharge air temperature setpoint, relative humidity (RH) setpoint, and damper minimum position.

Sequence of Operation—"Occupied"
Emergency Stop.
When the emergency contacts are open, the unit's operation will be in Alarm Status. The Alarm has to be reset from either the BAS or the display in the unit.

Starting Sequence
The unit is placed in occupied operation by the BAS. Occupancy sensors shall be associated with the VAV boxes serving the spaces. Upon any occupancy sensor activation, the BAS shall enable the DOAS system. Spaces shall be able to be scheduled and forced into occupancy for a predetermined interval of time via the BAS for prescheduled events.

The outdoor air and return air dampers will be commanded to move to their preset occupied positions. The fan shall be enabled and the indoor fan run speed based on the duct static pressure. If after 30 seconds the indoor fan proving switch does not prove the indoor fan on, the main unit controller will command the indoor fan off and signal an alarm.
Minimum fan speeds are determined from the heater manufacturer's requirements or the requirements for the indoor coil. Maximum fan speeds are determined by the indoor coil requirements or job specific max airflow.

Occupied Operating Modes
A. Heating
B. Cooling

All modes are enabled by the main unit control module. The control module calculates dewpoint based on sensed outdoor air temperature and humidity.

A. Heating Mode.
Should the Outdoor Air Temperature fall below the Discharge Air Temperature Setpoint 68°F, plus the Heat/Cool Mode Deadband (field adjustable; factory default of 4°F), then Heating Mode shall be enabled.

During Heating Mode the main unit controller will modulate the heating output to maintain the Discharge Air Temperature Setpoint. Maximum discharge air heating temperature shall be adjustable but shall not be allowed to exceed 90°F. Hot gas reheat is disabled when heating is enabled.

Morning Warmup
Prior to morning scheduled occupancy, if ambient temperature is lower than 45F (adj), the unit shall enter morning warmup. During Morning Warmup the OA damper shall be closed, the fan shall be commanded to full speed, the unit will modulate the discharge air temperature to maintain 100 degrees, and all zone dampers shall be commanded open. The BAS shall use intelligent adaptive recovery and record prior days' warmup period.

B. Cooling Mode
Should the Outdoor Air Temperature rise above the off cooling coil leaving Air Temperature Setpoint (55°F), then Cooling Mode shall be enabled. Hot gas reheat (HGRH) shall modulate to maintain the unit leaving air temperature of 60F (adj) in cooling mode.
Compressor control is based on cooling coil leaving Air Temperature Setpoint. The DX cooling shall modulate to maintain off coil temperature setpoint of 55F (adj). Modulating hot gas reheat will be used to temper the discharge air, if necessary, to elevate LAT to 60F (adj).

Occupied Dehumidification:
Zone temperature and humidity (%RH) shall be continually monitored and actively controlled. Dehumidification mode shall be enabled when the unit is not in Heating Mode or and all space temperatures are below 74F (adj) and an individual zone Space RH rises above the Space RH Setpoint of 50% RH (adj). Dehumidification shall remain active until all zones are below 50% RH, or if heating mode is enabled.

The compressors shall maintain an Evaporator Leaving Temperature Setpoint of 55F (adj). HGRH shall modulate to maintain the leaving unit discharge air setpoint of 70F (adj).

Occupied Hot Gas Reheat:
During the dehumidification cycle, the Hot Gas Reheat shall be enabled and shall modulate to maintain the discharge air setpoint. The hot gas reheat coil will undergo a purge cycle every 30 minutes for 3 minutes. During the purge cycle the, hot gas reheat coil is bypassed 100%. The Heating cycle is disabled when the hot gas reheat cycle is enabled.

Occupied Hot Gas Reheat Purge
Following continuous 30-minute hot gas reheat operation at less than 100 percent reheat capacity a purge cycle will be initiated. During the purge cycle, the hot gas reheat signal is set and held at 100 percent for a period of 3 minutes. Following the purge cycle, normal operation resumes.

Exhaust Fan Operation
When the indoor fan operation has been proven and the unit is in occupied there will be a call for the exhaust. When there is a call for the exhaust the isolation dampers will be powered and the powered exhaust will be enabled once the end switch on the exhaust damper actuators are proven. If the unit is equipped with modulating dampers, the exhaust fan speed will modulate to maintain the Return Duct/Space Pressure Setpoint (factory defaulted to 1" WC). If modulating dampers are not equipped, the exhaust will maintain a constant volume of airflow.
During Unoccupied the powered exhaust will be shut off.

Energy Wheel Operation
The Energy Recovery Ventilator (ERV) is interlocked with indoor fan and exhaust fan operation in occupied heating, dehumidification or cooling modes. When operating in Economizer Mode the ERV is disabled and the ERV by-pass dampers will open, powered exhaust remains on. If Economizer Mode has been enabled for 10 minutes the ERV will be enabled for one minute. This cycle will repeat every 10 minutes.
During ERV operation, if the Exhaust Temperature across the ERV drops below 25°F, the outdoor air bypass damper will start to slowly modulate open. If after the bypass dampers modulate to 100 percent open and the exhaust temp across the ERV drops below 15°F (2°F Deadband) for 5 minutes, the unit controller will command the ERV off.
During part load conditions, when the full heat recovery of the ERV is oversized, variable effectiveness is required. The bypass damper on the outdoor side will modulate open to reduce the temperature leaving the wheel to prevent overshooting setpoint.
During Unoccupied both the ERV and the powered exhaust will be shut off.

Demand Control CO2 Ventilation
Space CO2 shall be continuously monitored by the BAS and the DOAS system shall modulate to maintain space CO2 level concentrations. If the CO2 level in the space is higher than the setpoint, the zone level VAV dampers shall modulate open until the CO2 levels in the space are within the setpoint value. Once setpoint is met, the zone dampers will then slowly begin to modulate closed until space CO2 level to change.

Airflow Monitoring
Both the SF and EF airflow shall be monitored via piezo ring and displayed at the BAS.

Sequence of Operation—"Unoccupied"
Emergency Stop.
When the emergency contacts are open, the unit's operation will be in Alarm Status. The Alarm has to be reset from either the BAS or the display in the unit.

Starting Sequence
Indoor fan proving sequence is identical to occupied operation.

Starting Sequence with Optional Return Air Damper Installed
The outdoor air damper will be commanded to close and the return air damper will open. Outdoor air damper end switch is disabled when the return air damper is installed. Supply fan shall start and modulate to maintain the Duct Static Pressure Setpoint, the exhaust fan and energy wheel shall remain off, and the outside air damper shall remain closed.

Starting Sequence with No Return Air Damper Installed
Identical to occupied sequence no return air damper installed but the outdoor damper will remain open.

Operating Modes
A. Cooling
B. Heating

A. Unoccupied Cooling Mode.
In order for unoccupied cooling to be enabled, a true value must be written to UNOCC Cooling Mode. The unit shall stage the compressors to maintain the Discharge Air Temperature Setpoint. Unoccupied Cooling Mode will continue until a false value is written to the UNOCC Cooling Mode.

B. Unoccupied Heating Mode.
In order for unoccupied heating to be enabled, a true value must be written to UNOCC Heating Mode. The unit shall stage the heat to maintain the Discharge Air Temperature Setpoint. Unoccupied Heating Mode will continue until a false value is written to the UNOCC Heating Mode.

1 MAU CONTROL DIAGRAM

NOT TO SCALE

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West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL CONTROLS

Sheet M701

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES. IF COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:
DURING OCCUPIED PERIODS THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE FCU FAN AND DX HEAT/ COOL CAPACITY SHALL MODULATE TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT.

OPTIMAL START:
THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

PRE-COOL MODE:
DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:
THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

SPACE TEMPERATURE CONTROL:
CASCADE ZONE CONTROL SHALL BE USED FOR THE UNITS TO MAINTAIN ZONE TEMPERATURE BY MODULATING THE CONSUMPTION CAPACITY TO CONTROL THE ZONE TEMPERATURE WHILE MINIMIZING THE FAN SPEED.

THE SPACE TEMPERATURE SHALL BE MAINTAINED BETWEEN THE OCCUPIED COOLING SETPOINT OF 74.0 DEG. F (ADJ.) AND THE OCCUPIED HEATING SETPOINT OF 71.0 DEG. F (ADJ.). THE UNIT SHALL TRANSITION TO THE COOLING MODE WHEN THE SPACE TEMPERATURE RISES ONE DEGREE ABOVE THE OCCUPIED COOLING SETPOINT OF 74.0 DEG. F (ADJ.). THE UNIT SHALL TRANSITION TO THE HEATING MODE WHEN THE SPACE TEMPERATURE DROPS ONE DEGREE BELOW THE OCCUPIED HEATING SETPOINT OF 74.0 DEG. F (ADJ.).

GROUPING OF INDOOR UNITS:
SPECIFIED UNITS SHALL BE GANGED TOGETHER AND OPERATED WITH A SINGLE SPACE TEMPERATURE CONTROLLER USED TO SET SPACE TEMP SETPOINT. EACH INDIVIDUAL UNIT IN THE GANGED SYSTEM SHALL CONTROL TO RA TEMPERATURE AND SHALL INCREASE AND DECREASE LOADING AND OUTPUT CAPACITY INDEPENDENTLY FROM ONE ANOTHER TO PRECISELY LOAD MATCH, INDEPENDENT FROM ONE ANOTHER, TO PREVENT HOT/COLD AREAS IN THE ZONES OR "FIGHTING," AND SHALL MEET THE PRECISE LOCAL NEEDS.
SHALL BE COMMONLY GROUPED TOGETHER:
FCU-2,3
FCU-4,5
FCU-7,8

SUPPLY FAN OPERATION:
THE SUPPLY FAN SHALL BE ALLOWED TO CYCLE ON DEMAND DURING THE UNOCCUPIED MODE TO MAINTAIN UNOCC SPACE TEMP SET POINT. WHEN THE CONTROLLER IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AT THE LOWEST MINIMUM SPEED REQUIRED TO MAINTAIN SPACE TEMPERATURE. IF THE SUPPLY FAN FAILS THE FAN SHALL BE COMMANDED OFF AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS.

FILTER TIMER:
THE FAN-RUN TIME (HRS) SHALL BE COMPARED TO THE FILTER MAINTENANCE TIMER SETPOINT. ONCE THE SETPOINT IS REACHED A FILTER TIMER ALARM DIAGNOSTIC SHALL BE ANNUNCIATED AT THE BAS. WHEN THE DIAGNOSTIC IS CLEARED, THE FILTER-MAINTENANCE TIMER IS RESET TO ZERO, AND THE TIMER BEGINS ACCUMULATING FAN-RUN TIME AGAIN.

MASTER CONTROLLER INTERFACE:
SUPPORTS DUAL SET POINT FUNCTIONALITY

DISPLAYS:
- COMPRESSOR SPEED AND HI/LOW PRESSURE
- INPUT/OUTPUT STATUS
- INDOOR UNIT FREE CONTACT INPUT/OUTPUT STATUS
- SPACE TEMPERATURE AND HUMIDITY
- ERROR CODE (CAN BE EMAILED AUTOMATICALLY TO SPECIFIED RECIPIENTS)
- UNOCCUPIED SETBACK UP TEMPERATURE RANGE

FUNCTIONS
- HOLD FUNCTION (TEMPORARILY DISABLES SCHEDULES INDOOR UNIT MODEL DEPENDENT)
- INITIAL SETTING
- OPERATION DATA BACK-UP

PERMITS OR PROHIBITS REMOTE CONTROLLER FUNCTIONS:
- ON/OFF
- CHANGE OPERATION MODE
- CHANGE SET POINT TEMPERATURE
- FILTER STATUS
- CHANGE FAN SPEED
- CHANGE AIR DIRECTION

EXTERNAL INPUT/OUTPUT SIGNALS CAN BE USED FOR BATCH OPERATIONS SUCH AS START/STOP AND EMERGENCY STOP
PULSE SIGNAL INPUT CAN OBTAIN WATT-HOUR METER, BILLING DATA AND ENERGY MANAGEMENT DATA BASED ON THE CUMULATIVE NUMBER OF PULSE SIGNAL PULSE SIGNALS
DIRECTLY INPUT FROM A METERING DEVICE
TEMPERATURE SET POINT RANGE LIMITS CAN BE SET FOR LOCAL REMOTE CONTROLLERS
USER DEFINED INDOOR UNIT FUNCTIONS:
- ON/OFF
- MONITORING AND OPERATION
- OPERATION MODE: HEAT, FAN, DRYING, SETBACK
-- TEMPERATURE SETTING
-- FAN SPEED
-- AIRFLOW DIRECTION

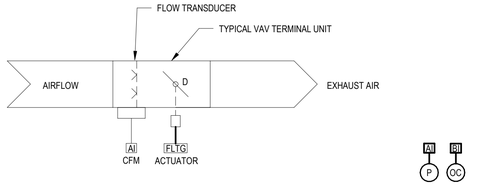
MONITORING AND CONTROL OF INDOOR UNITS

SCHEDULING
- DAILY
- ANNUALLY
- FIVE PATTERN OF WEEKLY SEASONAL SCHEDULE
- ON/OFF
- MODE
- TEMPERATURE SETTING
- VANE DIRECTION
- FAN
- SPEED
- OPERATION PROHIBITS

TREND DATA:
- FAN OPERATION TIME
- SET TEMPERATURE
- ROOM TEMPERATURE
- AI CONTROLLER TEMPERATURE AND HUMIDITY

MEMORY BACK UP VIA USB (UNIVERSAL SERIAL BUS)
MEMORY BACK UP VIA LAN (LOCAL AREA NETWORK) PORT

3 VRF CONTROLS
NOT TO SCALE



SEQUENCE OF OPERATIONS:

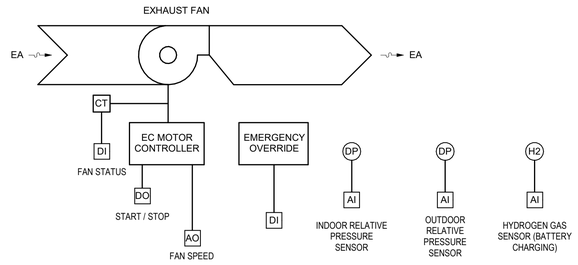
BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. IF COMMUNICATION IS LOST WITH THE BAS, THE VAV CONTROLLER SHALL CONTINUE MODULATING DAMPER TO MAINTIAIN STATIC PRESSURE SETPOINT.

OCCUPANCY MODE:
THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE CONTROLLER VIA A BINARY INPUT.

OCCUPIED:
NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE EXHAUST VAV SHALL MODULATE TO MAINTAIN SPACE STATIC PRESSURE SETPOINT OF +0.01" W.C (ADJ.).

UNOCCUPIED:
VAV SHALL MODULATE FULLY CLOSED

2 TYPICAL EXHAUST VAV BOX
NOT TO SCALE



EXHAUST FAN (EF TLT) - SEQUENCE OF OPERATION:

1. FAN OPERATION SHALL BE CONTROLLED BY A DEDICATED, STAND-ALONE BACNET CONTROLLER.
2. FAN SHALL RUN CONTINUOUSLY TO MAINTAIN CODE REQUIRED EXHAUST AIRFLOW RATE. FAN SHALL MODULATE TO MAINTAIN A POSITIVE PRESSURE DIFFERENCE IN BUILDING INTERIOR AS MEASURED BY THE INDOOR AND OUTDOOR PRESSURE SENSORS.
3. PRESSURE DIFFERENTIAL SETPOINT SHALL BE COORDINATED BY CONTROLS CONTRACTOR WITH TEST AND BALANCE CONTRACTOR TO MAINTAIN DESIGN EXHAUST AIRFLOW.

4 TYPICAL EXHAUST FAN
NOT TO SCALE

SEQUENCE OF OPERATIONS:

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR OR COMMUNICATION IS LOST WITH THE BAS, AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO IT'S LAST POSITION IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE.

OCCUPANCY MODE:
THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE CONTROLLER VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE UNIT SHALL BE:

OCCUPIED:
NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV DAMPERS SHALL MAINTAIN VENTILATION CFM TO SATISFY ZONE CO2 CONCENTRATION AS MEASURED BY THE CO2 SENSORS IN THE SPACE. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

UNOCCUPIED:
NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN THE UNOCCUPIED MODE THE VAV DAMPERS SHALL CLOSE.

VENTILATION CONTROL (OCCUPANCY AND CO2):
WHEN THE UNIT IS IN OCCUPIED MODE, THE VAV DAMPERS SHALL MODULATE TO MAINTAIN CO2 SETPOINT. VENTILATION AIRFLOW SETPOINT SHALL BE EQUAL THE DESIGN OUTDOOR AIRFLOW AND RESET BASED ON OCCUPANCY AND CO2.

CO2 -BASED, DEMAND-CONTROLLED VENTILATION
WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT WILL BE CONTINUOUSLY CALCULATED USING THE MEASURED CO2 CONCENTRATION IN THE SPACE.

THE CURRENT VENTILATION AIRFLOW SETPOINT SHALL BE COMMUNICATED TO THE BAS FOR CONTROL OF THE SYSTEM OUTDOOR-AIR INTAKE.

1 TYPICAL SUPPLY VAV BOX
NOT TO SCALE

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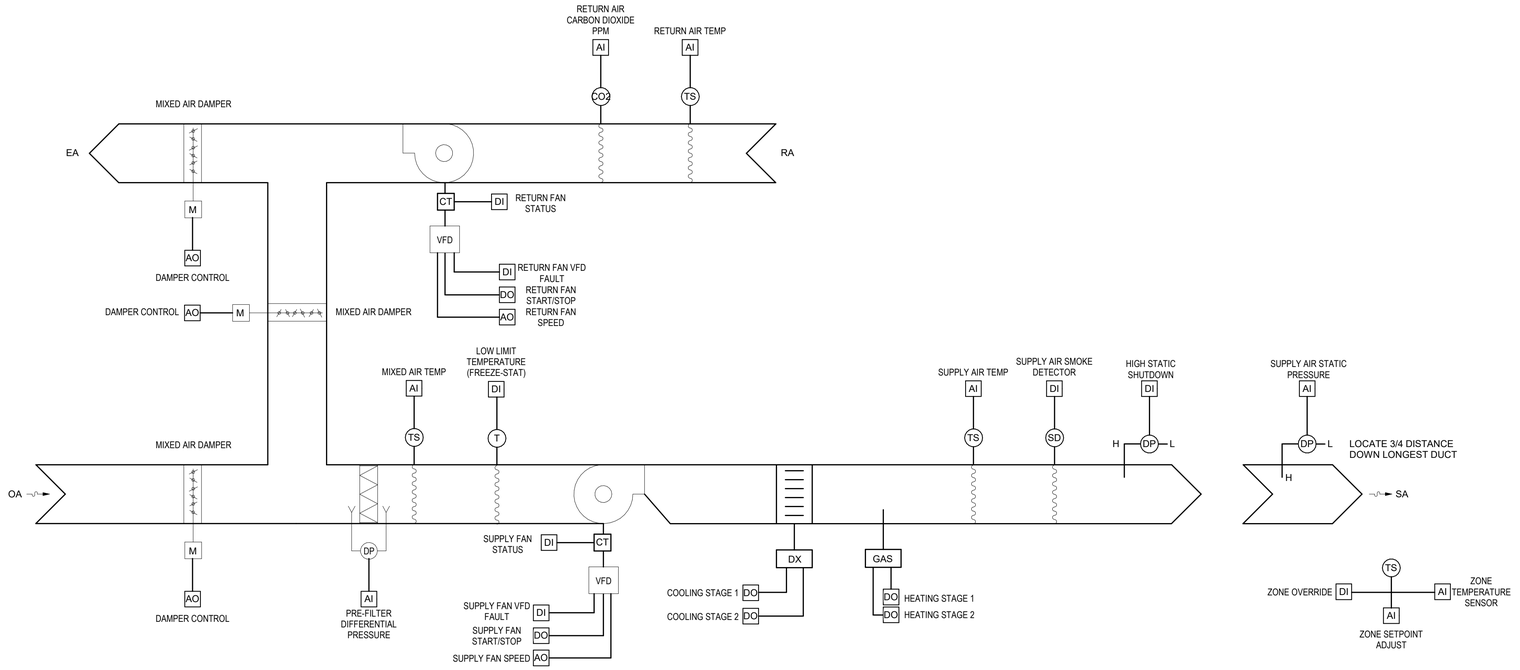
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MECHANICAL CONTROLS

Sheet M702



RTU SEQUENCE OF OPERATIONS:

1.1 AIR HANDLING UNIT CONTROL

A. General: The air handling systems is a variable air volume system serving terminal units throughout the building.

B. Start/Stop Control:
   1. Provide optimal start/stop scheduling.
   2. During occupied mode, the air handling system shall operate continuously.
   3. During unoccupied mode, the air handling system shall operate as described below.
   4. The system shall start during near the end of the unoccupied period in warm-up/cool-down mode. The start time shall vary such that all spaces are at their occupied temperatures at the beginning of the occupied period.

C. Provide individual control of outside air damper, return air damper and exhaust air damper. Control in unison to provide economizer system of damper control.

D. Supply Fan Control
   1. Supply fan variable speed drive(s) will modulate based on static pressure tip located 2/3 down the supply main duct. The initial static setpoint will 1" WC (adj.).
   2. The BAS shall monitor the position of the damper of all VAV terminal units connected to the air handling unit. The static pressure setpoint shall be reset every 10 minutes in 0.05" WC increments. If none of the dampers are commanded to 80% or more open for 10 minutes, reduce the static pressure setpoint. If one or two dampers are commanded to 95% open or more, maintain the static pressure setpoint. If three or more dampers are commanded to 95% open or more, increase the static pressure setpoint. The minimum static pressure setpoint shall be 0.10" WC (adj.).
   3. When multiple supply fans operate, all shall operate at the same speed.

E. Return Fan Control:
   1. Return fan will modulate to maintain building static pressure setpoint.
   2. When multiple fans operate, all shall operate at the same speed.

F. Outside Air Damper Control:
   1. When the outside air enthalpy is greater than or equal to the return air enthalpy the outside air damper shall be positioned to the minimum outside air position.
   2. When the outside air enthalpy is less than the return air enthalpy, the outside air damper shall modulate open in sequence with the return air damper and relief dampers to satisfy the calculated discharge air requirements.

G. Discharge Air Temperature Control:
   1. The discharge air temperature set point shall initially be 55 degrees (adj.). The BAS shall monitor the position of the reheat coil demand of all VAV terminal units connected to the air handling unit.
   2. The discharge air temperature set point shall be reset every 10 minutes in 0.5 degree increments. If all reheat coil coils are commanded to 20% or more capacity for 10 minutes, increase the discharge air temperature setpoint. If one or two coils are commanded to less than 20%, maintain the discharge air setpoint. If three or more coils are commanded to less than 20% open, decrease the discharge air temperature setpoint.
   3. The discharge air temperature control loop shall modulate, in sequence, the gas furnace, OA/RA/EA dampers, and cooling coil.

H. Warmup mode: When occupied mode starts, if the return air temperature is less than 68 degrees, the discharge air temperature will be reset to 70 degrees until the return air temperature reaches 70 degrees.

I. Heating Coil Control:
   1. The preheat control loop will modulate the gas fired furnace to deliver the required discharge air temperature.
   2. The outdoor air damper must be driven to its minimum position before this control loop is allowed to function. During unoccupied times the control loop shall operate to maintain a mixed air temperature of 45 degrees.

J. Cooling Coil Control:
   1. The cooling coil control loop will modulate the refrigerant to deliver the required discharge air temperature.
   2. A dehumidification strategy shall be put in place to control the return air relative humidity levels. If the relative humidity of the return air exceeds 60% R.H.(adj.) the discharge air setpoint will be reset to its initial set point until the return air humidity falls below 55 % R.H. (adj.)

K. Unoccupied Mode:
   1. The system shall be in unoccupied mode only if all spaces are in unoccupied mode; otherwise the system shall be in occupied mode.
   2. The air handler shall be commanded to run during unoccupied times if any of the areas served have zone temperatures less than 65 degrees or greater than 78 degrees.
   3. When the outside air temperature is less than 65 degrees, the unit shall remain on until all zone temperatures are 67 degrees or higher.
   4. When the outside air temperature is greater than 70 degrees, the unit shall remain on until all zone temperatures are 76 degrees or lower.
   5. When the outside air temperature is between 65 degrees and 70 degrees, the unit shall be off.
   6. When the unit operates during unoccupied times, the outside air damper shall be closed and the humidifier shall be off.

L. Alarms and Notifications:
   1. All VFD drives shall be monitored and provide a fault condition to the BAS system.
   2. All fan banks are to have a separate VFD drive for each fan,
   3. Smoke detectors in the return ductwork shall shutdown the air handler via a supervisory signal from the Fire Alarm Control System if in an alarm condition.
   4. All smoke dampers are to be monitored by the Fire Alarm Control System and shutdown the air handler via a supervisory signal from the Fire Alarm Control System if any close.
   5. Low limit thermostat(s) installed at discharge of unit to shutdown the air handler if any temperature drops below 38 degrees.
   6. A supply high limit static pressure switch located in the main supply ductwork will shutdown the air handler anytime the pressure exceeds +3.5" (adj.).
   7. A return low limit static pressure switch located in the main return ductwork will shutdown the air handler anytime the pressure exceeds -2.0" (adj.)
   8. All safeties: fire alarm, smoke dampers, low limit (freeze), high static and low static shall alarm through the BAS system. Where multiple low limit thermostats are provided, provide a common alarm to the BAS system for all low limit thermostat(s).
   9. Filters shall be monitored and generate an alarm through the BAS system anytime the static pressure exceeds its adjustable setpoint.

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Title
MECHANICAL CONTROLS

Sheet M703

SYMBOL LIST NOTE:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM FLOOR TO CENTERLINE OF DEVICE. DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO BOTTOM OF DEVICE.

PANELS:

'XXX' 'XXX' — ELECTRICAL PANEL - SURFACE / RECESSED

EQUIPMENT CABINETS:

WITHOUT DOOR - SURFACE / RECESSED

'XXX' 'XXX' — WITH DOOR - SURFACE / RECESSED

DENOTES THE FOLLOWING
- (BDA) BI-DIRECTIONAL AMPLIFIER PANEL (2 WAY COMM)
- (ER) ELEVATOR RECALL PANEL
- (ES) ELEVATOR STATUS PANEL
- (FAAP) FIRE ALARM ANNUNCIATOR PANEL
- (FACP) FIRE ALARM CONTROL PANEL
- (GAP) GENERATOR ANNUNCIATOR PANEL
- (HPCP) HOSPITAL PAGING CONTROL PANEL
- (LCP) LIGHTING CONTROL PANEL
- (MSCP) MUSIC SYSTEM CONTROL PANEL
- (NACP) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT - CONTROL PANEL
- (NCCP) NURSE CALL CONTROL PANEL
- (RACP) RESCUE ASSISTANCE CONTROL PANEL
- (SACP) SECURITY ACCESS CONTROL PANEL
- (SC) SMOKE CONTROL PANEL

POWER:

SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED
- (CM) COFFEE MAKER
- (D) DEDICATED CIRCUIT
- (DD) DOUBLE DUPLEX
- (FZR) FREEZER
- (ICE) ICE MAKER
- (MW) MICROWAVE
- (REF) REFRIGERATOR
- (TR) TAMPER RESISTANT
- (TV) MOUNTED ADJACENT TO TELEVISION
- (UCR) UNDER CABINET REFRIGERATOR
- (WP) WEATHERPROOF WITH GFI RECEPTACLE

X DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES)

DUPLEX RECEPTACLE - SWITCHED (INDICATED BY LEFT HATCH) MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - CEILING MOUNTED

NON NEMA 5-20R RECEPTACLE

SPECIAL OUTLET (SEE SCHEDULE). WALL / CEILING OR FLOOR MOUNTED

FLOOR MOUNTED ELECTRICAL BOX (SEE SCHEDULE FOR DEVICES REQUIRED)
- # DENOTES CIRCUIT NUMBER (SEE PLAN FOR PANEL BOUNDARIES)- TYPICAL
- X INDICATES DEVICE TYPE (SEE SCHEDULE)

POWER POLE. X DENOTES DEVICE TYPE AND INCLUDED RECEPTACLES.

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

MOTOR STARTER

METER SOCKET

TRANSFORMER. WALL / FLOOR MOUNTED

T-XX T-XX — INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD

JUNCTION BOX WITH WHIP FOR FURNITURE FEED

JUNCTION BOX

PULL BOX

PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE FOLLOWING
- (CD) COMPUTER DROP OUT
- (D) DOOR BELL STATION
- (EPO) EMERGENCY - POWER OFF STATION
- (ES) EQUIPMENT SHUTDOWN
- (F) FAN SHUTDOWN

AD — AUTOMATIC DOOR OPERATOR

GM — GROUND MODULE

GROUND ROD

LIGHTING:

NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.

CEILING MOUNTED FIXTURE - SURFACE / RECESSED

1Ra A
- FIXTURE DESIGNATION (SEE SCHEDULE)
- CIRCUIT SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH OR OCCUPANCY SENSOR
- SWITCHING DEVICE. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH OR OCCUPANCY SENSOR. (R) CIRCUIT SWITCHED VIA RELAY IN RELAY CABINET
- CIRCUIT NUMBER. SEE PLANS FOR PANEL BOUNDARIES.

ILLUMINATED DOME FIXTURE - RECESSED

STRIP LIGHT FIXTURE

LINEAR WALL MOUNTED FIXTURE

TRACK LIGHT FIXTURE. SPOT LIGHT / PENDANT

CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED

CEILING MOUNTED DOWNLIGHT FIXTURE - WALL WASH - SURFACE / RECESSED

POLE MOUNTED FIXTURE

WALL MOUNTED FIXTURE - SURAFCE / RECESS

GROUND MOUNTED FIXTURE - BOLLARD/FLOOD/ACCENT

X DS — DAYLIGHT SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

MD — MOTION DETECTOR.

X OS — OCCUPANCY SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X C — CONTACTOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X D — DIMMING SYSTEM CONTROL STATION. X STATION IDENTIFIER (SEE SCHEDULE)

X L — LOW VOLTAGE SWITCH STATION. X STATION IDENTIFIER (SEE SCHEDULE)

X LVS — LOW VOLTAGE SWITCH STATION. X STATION IDENTIFIER (SEE SCHEDULE)

X PC — PHOTO-CONTROL. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X T — TIME CLOCK. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

PW — POWER PACK

EXIT LIGHT - WALL MOUNTED
PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN

EXIT LIGHT - CEILING MOUNTED
PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN

EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT - DUAL HEAD LIGHT - WALL MOUNT 12" BELOW CEILING UNLESS NOTED OTHERWISE.

BATTERY PACK REMOTE HEAD SPOT ILLUMINATION UNIT

SWITCHING DEVICES:

NOTE: ALL SWITCHING DEVICES SHALL BE MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

X $ XX — SINGLE POLE TOGGLE SWITCH

XX DENOTES THE FOLLOWING
- (2) DOUBLE POLE
- (3) 3 WAY
- (4) 4 WAY
- (DLS) DUAL LEVEL SWITCHING
- (K) KEY OPERATED
- (P) WITH PILOT LIGHT INDICATION
- (T) TIMER SWITCH

X DENOTES SWITCH DESIGNATION (LOWER CASE)

DIMMER SWITCH

MOMENTARY CONTACT SWITCH

ELECTRICAL SHEET LIST

NUMBER	NAME
E000	ELECTRICAL LEGEND
E001	ELECTRICAL SITE DEMOLITION PLAN
E002	ELECTRICAL SITE PLAN
E003	OVERALL ELECTRICAL FLOOR PLAN
E004	ELECTRICAL RISER DIAGRAM
ED100	LOWER LEVEL POWER AND SYSTEMS DEMOLITION PLAN
ED101	MAIN LEVEL POWER AND SYSTEMS DEMOLITION PLAN
ED103	ROOF POWER AND SYSTEMS DEMOLITION PLAN
ED200	LOWER LEVEL LIGHTING DEMOLITION PLAN
ED201	MAIN LEVEL LIGHTING DEMOLITION PLAN
E100	LOWER LEVEL POWER PLAN - EXISTING FACILITY
E101	MAIN LEVEL POWER PLAN - ASSEMBLY HALL
E102	MAIN LEVEL POWER PLAN - EXISTING FACILITY
E103	ROOF POWER PLAN
E111	MAIN LEVEL MECHANICAL POWER PLAN
E200	LOWER LEVEL LIGHTING PLAN - EXISTING FACILITY
E201	MAIN LEVEL LIGHTING PLAN - ASSEMBLY HALL
E202	MAIN LEVEL LIGHTING PLAN - EXISTING FACILITY
E300	LOWER LEVEL SYSTEMS PLAN - EXISTING FACILITY
E301	MAIN LEVEL SYSTEMS PLAN - ASSEMBLY HALL
E302	MAIN LEVEL SYSTEMS PLAN - EXISTING FACILITY
E400	ENLARGED ELECTRICAL PLANS
E401	ENLARGED ELECTRICAL PLANS - IDF N004
E500	ELECTRICAL SCHEDULES
E501	ELECTRICAL SCHEDULES
E502	ELECTRICAL SCHEDULES
E503	ELECTRICAL SCHEDULES
E600	ELECTRICAL DETAILS
E601	ELECTRICAL DETAILS

TECHNOLOGY (ROUGH-IN ONLY):

REFER TO TECHNOLOGY OUTLET SCHEDULE FOR DEVICE REQUIREMENTS

X — X DENOTES DEVICE TYPE.
- (C) COMMUNICATIONS
- (D) DATA
- (M) MULTIMEDIA
- (S) SECURITY
- (T) TELEPHONE
- (V) VIDEO
- (W) WIRELESS

X — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES. 3'-8" AFF OR 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT. ROUGH-IN ONLY

CEILING MOUNTED DATA RECEPTACLE. ROUGH-IN ONLY

X — FLOOR MOUNTED DATA BOX (SEE SCHEDULE)
- X INDICATES DEVICE TYPE

WAP — WIRELESS ACCESS POINT
- [1] CABLE WITH 25 FOOT SERVICE COIL TERMINATED WITH 8P8C EIA/TIA SUPPORTED PLUG.

TV XX — TELEVISION SYSTEMS

SLEEVE THROUGH WALL

SLEEVE THROUGH FLOOR BELOW

SLEEVE THROUGH FLOOR ABOVE

FREE STANDING OPEN FRAME DATA CABINET.
(HEAVY LINE INDICATES FRONT OF CABINET)

GROUND BUS BAR

SECURITY (ROUGH-IN ONLY):

DOOR HARDWARE INTALLATION - SEE DETAILS, ARCHITECTURAL PLANS AND SPECIFICATIONS.

XX XX — XX DENOTES THE FOLLOWING
- (AA) AUTODOOR ACTUATOR (PUSH PLATE)
- (AM) AUTODOOR ACTUATOR (MOTION SENSOR)
- (AO) AUTODOOR OPERATOR
- (ED) ELECTRICAL EXITING DEVICE
- (DE) DELAYED EGRESS MODULE
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRICAL STRIKE
- (KS) KEY SWITCH
- (PS) POWER SUPPLY
- (PT) POWER TRANSFER HINGE
- (RL) RELAY MODULE
- (RM) SEPARATELY MOUNTED REQUEST TO EXIT MOTION SENSOR NOT ASSOCIATED WITH SECURITY SYSTEM

SECURITY, ACCESS CONTROL AND DOOR MOUNTING

XX XX — XX DENOTES THE FOLLOWING
- (BIO) BIOMETRIC READER
- (BG) BURGLAR ALARM
- (CR) CARD READER
- (DX) DETEX ALARM
- (DB) DURESS - PUSHBUTTON
- (DC) DOOR CONTACT
- (DP) DOOR POSITION INDICATOR SWITCH
- (DR) DOOR RELEASE - PUSHBUTTON
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRIC STRIKE
- (GB) GLASS BREAK DETECTOR
- (KE) KEYLESS ENTRY
- (KP) KEYPAD - SECURITY SYSTEM
- (KS) KEEPER SWITCH
- (MD) MOTION SENSOR - DUAL TECHNOLOGY
- (MI) MOTION SENSOR - INFRARED
- (MU) MOTION SENSOR - ULTRASONIC
- (PB) PANIC BUTTON
- (RM) REQUEST FOR EXIT - MOTION
- (RP) REQUEST FOR EXIT - PUSH BUTTON

SECURITY CAMERA

XX XX — XX DENOTES CAMERA NUMBER, SEE SCHEDULE

SYSTEMS:

PAGING AND SOUND SYSTEM

XX/XX XX/XX — XX DENOTES THE FOLLOWING
- (DP) COMBINATION HOUSE PAGING & WIRED RADIO
- (HP) HOUSE PAGING
- (LM) LOCAL MUSIC
- (TS) TELEVISION SOUND REINFORCEMENT SYSTEM WIRED
- (WR) RADIO

XX DENOTES THE FOLLOWING
- (CR) CEILING MOUNTED RECESSED SPEAKER
- (CS) CEILING MOUNTED SURFACE SPEAKER
- (MC) MICROPHONE JACK - CEILING MOUNTED
- (MD) MICROPHONE JACK - DESK MOUNTED
- (MF) MICROPHONE JACK - FLOOR MOUNTED
- (MW) MICROPHONE JACK - WALL MOUNTED
- (RE) RE - ENTRANT TYPE HORN
- (VC) VOLUME CONTROL
- (VS) VOLUME CONTROL WITH 6 POSITION STATION SELECTOR
- (WR) WALL MOUNTED RECESSED SPEAKER
- (WS) WALL MOUNTED SURFACE SPEAKER

AREA OF RESCUE ASSISTANCE CALL STATION. WALL MOUNTED 44" AFF UNLESS NOTED OTHERWISE.

GENERAL:

DRAWING KEYNOTE SYMBOL

DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION

DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION

DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY

CONDUCTOR QUANTITY IN RACEWAY. NUMBERS INDICATE WIRE SIZES (AWG).
- INDICATES PHASE CONDUCTOR
- INDICATES NEUTRAL CONDUCTOR
- INDICATES GREEN GROUND CONDUCTOR

+X' - X" — MOUNTING HEIGHT DESIGNATION

NOTIFICATION DEVICES:

GONG

RTS — REMOTE ALARM INDICATING AND TEST SWITCH

ROTATING BEACON - CEILING/WALL MOUNTED

S — SPEAKER - CEILING/WALL MOUNTED

CD W — STROBE - CEILING/WALL MOUNTED

CD X — COMBINATION SPEAKER-STROBE - CEILING/WALL MOUNTED
- X DENOTES THE FOLLOWING
  - (W) WALL MOUNTED
  - (C) CEILING MOUNTED
  - (WP) WEATHERPROOF

GONG - WATER MOTOR

AIM — MODULE - ADDRESSABLE INPUT

AIO2 — MODULE - ADRESSABLE INPUT/OUTPUT

AOM — MODULE - ADDRESSABLE OUTPUT

R — MODULE - NON-ADDRESSABLE OUTPUT RELAY

DETECTORS:

SS — COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED

COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED

S — DUCT SMOKE DETECTOR - RECTANGULAR/SQUARE

XX — FLAME DETECTOR - CEILING MOUNTED
- XX DENOTES THE FOLLOWING
  - (IR) INFRARED
  - (UV) ULTRAVIOLET
  - (UV/IR) COMBINED ULTRAVIOLET AND INFRARED
  - (VR) VISIBLE RADIATION
- X DENOTES THE FOLLOWING
  - (W) WALL MOUNTED

XX — GAS DETECTOR
- XX DENOTES THE FOLLOWING
  - (CO) CARBON MONOXIDE

X XX — HEAT DETECTOR - CEILING MOUNTED
- XX DENOTES THE FOLLOWING
  - (F) FIXED TEMPERATURE
  - (R) RATE OF RISE
  - (R/C) RATE COMPENSATION
  - (R/F) COMBINED RISE AND FIXED TEMPERATURE
- X DENOTES THE FOLLOWING
  - (W) WALL MOUNTED

X — HEAT DETECTOR - CEILING MOUNTED LINEAR TYPE HEAT SENSITIVE CABLE
- X DENOTES THE FOLLOWING
  - (W) WALL MOUNTED

X XXX — SMOKE DETECTOR
- XXX DENOTES THE FOLLOWING
  - (ASD) AIR SAMPLING
  - (BR) BEAM RECEIVER
  - (BT) BEAM TRANSMITTER
  - (I) IONIZATION
  - (P) PHOTOELECTRIC
  - (SS) SINGLE STATION
- X DENOTES THE FOLLOWING:
  - (W) WALL MOUNTED

WF — FLOW SWITCH

VS — TAMPER SWITCH

XT — TEST SWITCH FOR DUCT DETECTOR

FO — FOAM MANUAL PULL STATION

P — MANUAL PULL STATION

AUTOMATIC AND SUPERVISORY DETECTOR

PS — WATER PRESSURE SWITCH

DH — DOOR HOLD-OPEN

ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
ALT	ALTERNATE
ALT SW	ALTERNATOR SWITCH
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINAL GRADE
BKR	BREAKER
BLDG	BUILDING
BOL	BUILT IN OVERLOAD
BPC	BOLTED PRESSURE CONTACT SWITCH
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CS	COMBINATION STARTER
CT	CURRENT TRANSFORMER
DE	DUAL ELEMENT FUSES
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
E	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EOL	END OF LINE RESISTOR
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDR	FEEDER
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GYP	GYPSUM BOARD
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NIC	NOT IN CONTRACT
NU	NEAR UNIT
OU	ON UNIT
P	POLE
PB	PUSH BUTTON
PC	PHOTO CONTROL
PE SW	PNEUMATIC SWITCH
PEND	PENDANT
PLBG	PLUMBING CONTRACTOR
PNL	PANEL
R	RELAY
REC	RECESS
RECEPT	RECEPTACLE
RM	ROOM
RVS	REDUCED VOLTAGE STARTING
S	SPLINE
SEL SW	SELECTOR SWITCH
SP SW	SPEED SWITCH
SURF	SURFACE
SW	SWITCH
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
USS	UNIT SUBSTATION
WP	WEATHERPROOF
XFMR	TRANSFORMER

RENOVATION LEGEND:

<E>	EXISTING WORK TO REMAIN
<ED>	EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE
<ER>	EXISTING TO BE RELOCATED
<ERC>	EXISTING TO BE RECIRCUITED
<EO>	EXISTING TO BE REMOVED
<EN>	EXISTING IN NEW LOCATION
<N>	NEW
<RAI>	REMAIN AS IS
<RE/CKT>	RECONNECT TO EXISTING CIRCUIT

2018 CHICAGO ELECTRICAL CODE

PUBLIC BUILDING COMMISSION — CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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Issuance

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL LEGEND

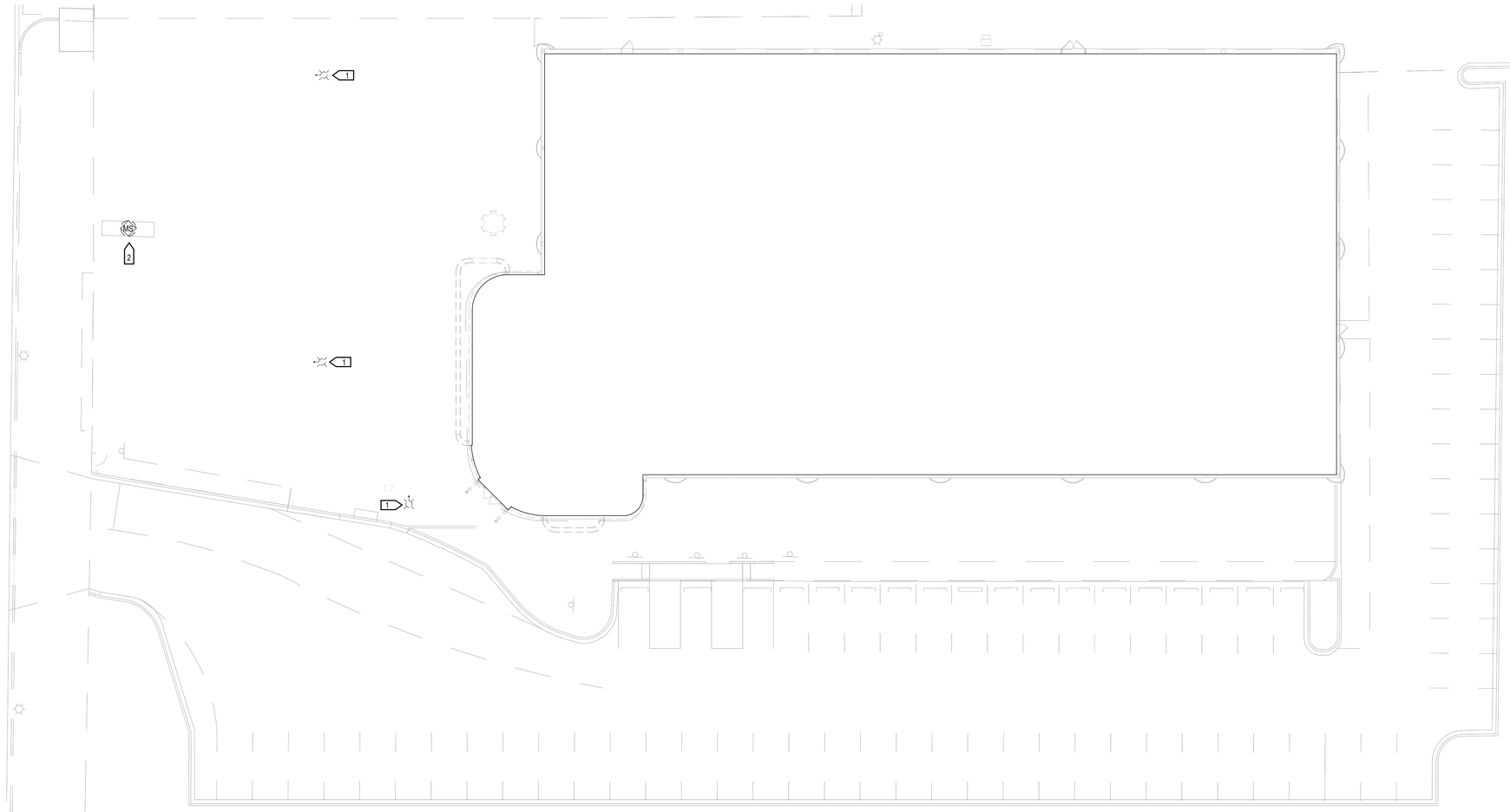
Sheet E000

REFERENCE NOTES: <1>

1. EXISTING POLE-MOUNTED AREA LIGHTS TO BE DEMOLISHED. REROUTE EXISTING TO REMAIN BELOW-GRADE FEEDERS AND CONTROL WIRING AS NECESSARY TO MAINTAIN SERVICE TO EXISTING TO REMAIN AREA LIGHTS ELSEWHERE ON SITE.
2. EXISTING MONUMENT SIGN TO BE DEMOLISHED. DEMOLISH ASSOCIATED FEEDERS AND CONDUIT BACK TO SOURCE.

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTION, RELOCATING AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISH, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
3. REMOVE ALL EXPOSED/ABANDONED CONDUIT AND BOXES NOT TO BE USED FOR NEW WORK.
4. IN REMODELED/ALTERED AREA ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGHOUT THE REMODELED AREAS TO SERVE (OR BE SERVED FROM EXISTING ADJACENT, REMOTE OR SURROUNDING THAT ARE TO REMAIN) SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.
5. WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES SHALL BE REWIRED. IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUIT AND IN OPERATING CONDITION.
6. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF ALTERATION/REMODELING WORK.
7. ALL CONDUITS AND WIRING (POWER, LIGHTING) NOT REUSED FOR REMODELING AREAS SHALL BE COMPLETELY REMOVED BACK TO ASSOCIATED PANELS.
8. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
9. THE OWNER SHALL HAVE THE FIRST CHOICE TO ACCEPT EXISTING DEVICES BEING REMOVED.
10. DEMOLITION DRAWINGS INDICATE DEVICES BASED ON AS-BUILT DRAWINGS AND SITE SURVEYS. ALL DEVICES TO BE REMOVED MAY NOT BE SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE DEVICES WITHIN PROJECT AREA UNLESS NOTED OTHERWISE.



1 ELECTRICAL SITE DEMOLITION PLAN

1/16" = 1'-0"

1/4"=1'-0" 0" 2" 4" 8"
1/8"=1'-0" 0" 1" 2" 4" 16"
3/32"=1'-0" 0" 1" 3" 12"

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL SITE DEMOLITION PLAN

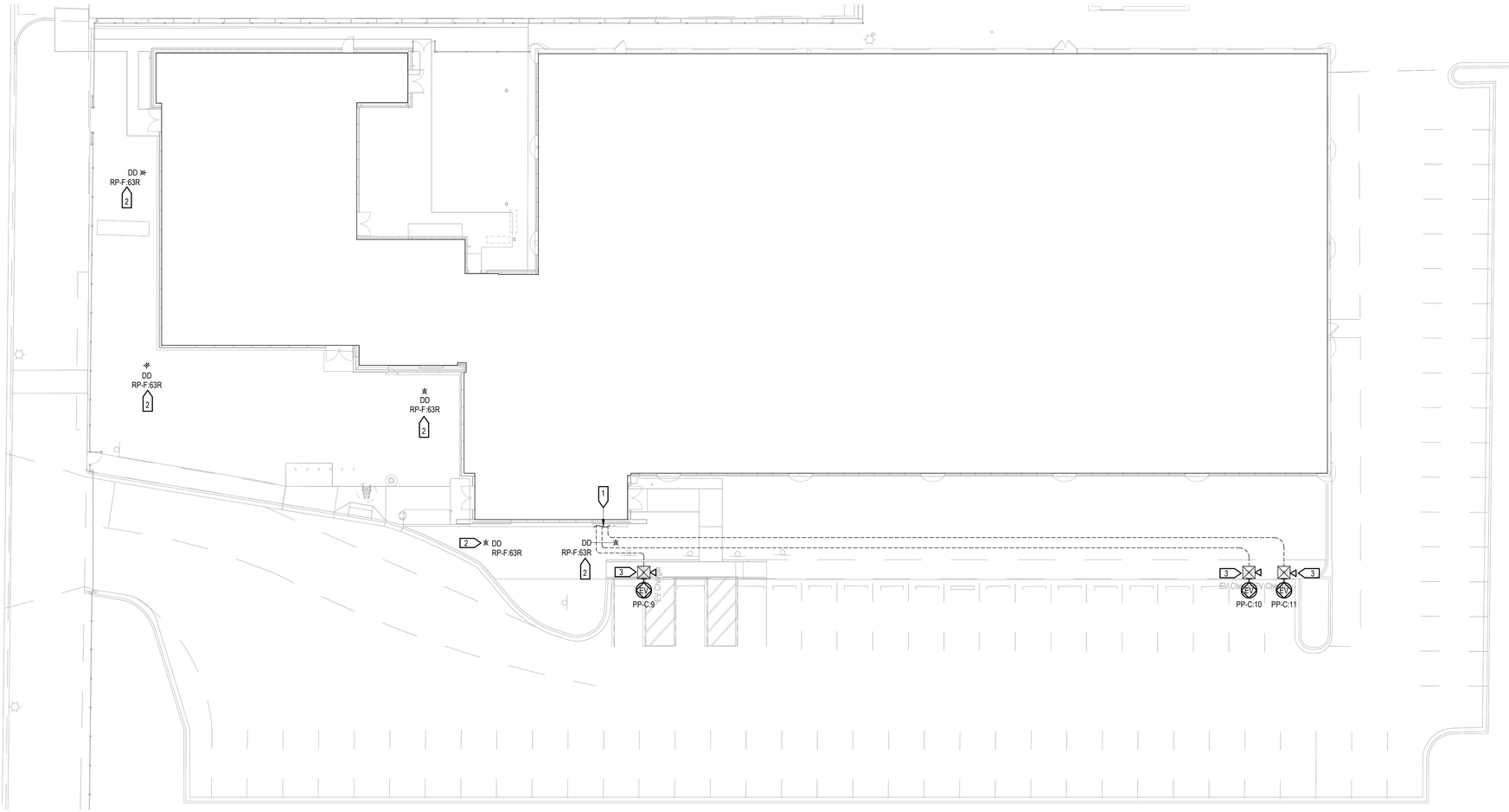
Sheet
E001

REFERENCE NOTES: <1>

1. CONDUIT ROUTING TO EV CHARGERS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY FINAL ROUTING CIVIL CONTRACTOR PRIOR TO INSTALLATION. CONDUIT TO EACH CHARGER SHALL CONSIST OF THE FOLLOWING:
   A. (1) 1-1/2" CONDUIT FOR POWER WIRING. REFER TO SPECIAL OUTLET SCHEDULE FOR ADDITIONAL INFORMATION.
   B. (1) 1" CONDUIT FOR COMMUNICATIONS CABLING. CONDUIT SHALL BE ROUTED TO IT ROOM N004.
2. COORDINATE FIXTURE LOCATIONS WITH CIVIL AND LANDSCAPING PLANS.
3. PROVIDE HANDHOLE FOR EV CHARGER CABLE ROUTING. HANDHOLE SHALL BE BREEZEV EVC-L2-ACC-MAKE-READY-BASE, OR APPROVED EQUIVALENT. PROVIDE WITH HIGH VOLTAGE DIVIDER FOR SEPARATION OF ELECTRICAL WIRING AND COMMUNICATIONS CABLING. COORDINATE FINAL LOCATION WITH CIVIL CONTRACTOR PRIOR TO INSTALLATION.

GENERAL NOTES:

1. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
2. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
3. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
4. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).
5. LOW VOLTAGE & A/V INSTALLATION LIMITED TO ROUGH-IN ONLY. CABLING, INSTALLATION, AND ACTIVATION BY OWNER.



1 ELECTRICAL SITE PLAN

1/16" = 1'-0"

1/4"=1'-0" 0 2' 4' 8'
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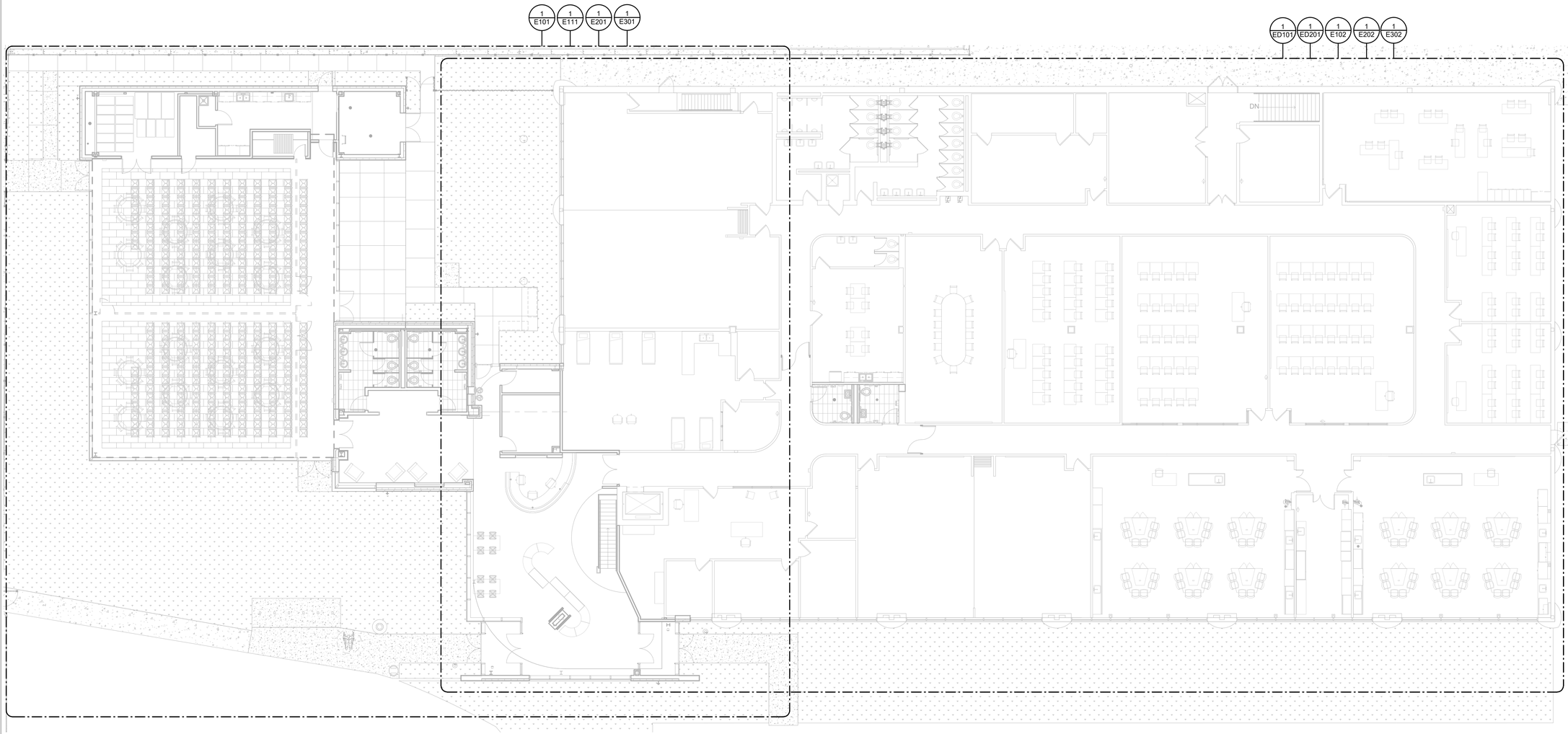
Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL SITE PLAN

Sheet
E002

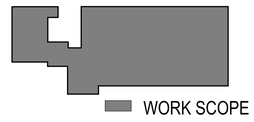
GENERAL NOTES:

1. FLOOR PLAN FOR REFERENCE ONLY.



1 MAIN LEVEL OVERALL ELECTRICAL PLAN

3/32" = 1'-0"



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1/8"=1'-0" 0" 8" 16"
3/32"=1'-0" 0" 8" 16"

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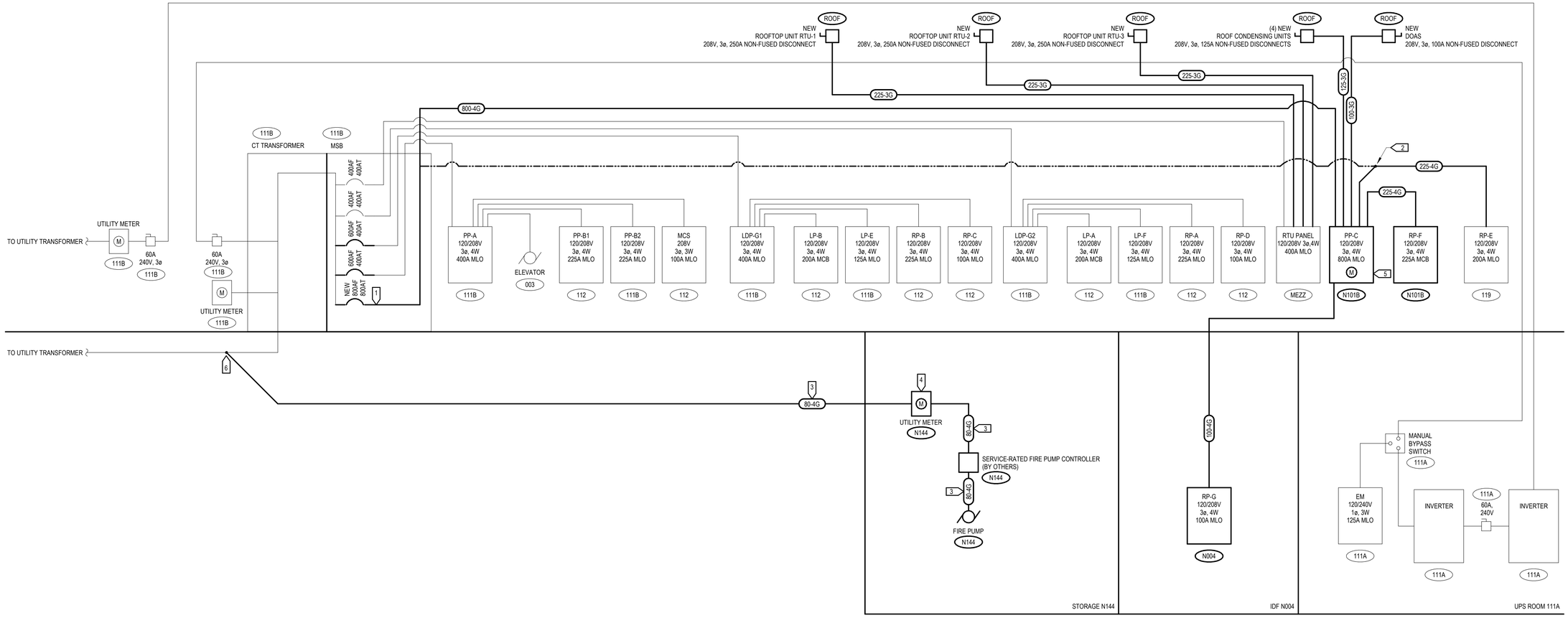
Title
OVERALL ELECTRICAL FLOOR PLAN

Sheet
E003



1 ELECTRICAL RISER DIAGRAM

NOT TO SCALE

FEEDER SCHEDULE		
Capacity (Amps)	Three Phase Three Wire w/ Ground	Three Phase Four Wire w/ Ground
20	3 # 12 & 1 # 12 GRD, 3/4" C.	4 # 12 & 1 # 12 GRD, 3/4" C.
30	3 # 10 & 1 # 10 GRD, 3/4" C.	4 # 10 & 1 # 10 GRD, 1" C.
40	3 # 8 & 1 # 10 GRD, 1" C.	4 # 8 & 1 # 10 GRD, 1" C.
50	3 # 8 & 1 # 10 GRD, 1" C.	4 # 8 & 1 # 10 GRD, 1" C.
60	3 # 6 & 1 # 10 GRD, 1" C.	4 # 6 & 1 # 10 GRD, 1-1/4" C.
70	3 # 4 & 1 # 8 GRD, 1-1/4" C.	4 # 4 & 1 # 8 GRD, 1-1/4" C.
80	3 # 4 & 1 # 8 GRD, 1-1/4" C.	4 # 4 & 1 # 8 GRD, 1-1/4" C.
90	3 # 3 & 1 # 8 GRD, 1-1/4" C.	4 # 3 & 1 # 8 GRD, 1-1/2" C.
100	3 # 3 & 1 # 8 GRD, 1-1/4" C.	4 # 3 & 1 # 8 GRD, 1-1/2" C.
125	3 # 1 & 1 # 6 GRD, 1-1/2" C.	4 # 1 & 1 # 6 GRD, 2" C.
150	3 # 1/0 & 1 # 6 GRD, 2" C.	4 # 1/0 & 1 # 6 GRD, 2" C.
175	3 # 2/0 & 1 # 6 GRD, 2" C.	4 # 2/0 & 1 # 6 GRD, 2" C.
200	3 # 3/0 & 1 # 6 GRD, 2" C.	4 # 3/0 & 1 # 6 GRD, 2-1/2" C.
225	3 # 4/0 & 1 # 4 GRD, 2-1/2" C.	4 # 4/0 & 1 # 4 GRD, 2-1/2" C.
250	3 # 250kCM & 1 # 4 GRD, 2-1/2" C.	4 # 250kCM & 1 # 4 GRD, 3" C.
300	3 # 350kCM & 1 # 4 GRD, 3" C.	4 # 350kCM & 1 # 4 GRD, 3" C.
350	3 # 500kCM & 1 # 3 GRD, 3" C.	4 # 500kCM & 1 # 3 GRD, 3-1/2" C.
380	3 # 500kCM & 1 # 3 GRD, 3" C.	4 # 500kCM & 1 # 3 GRD, 3-1/2" C.
400	3 # 600kCM & 1 # 3 GRD, 3-1/2" C.	4 # 600kCM & 1 # 3 GRD, 4" C.
450	2 [3 # 4/0 & 1 # 2 GRD, 2-1/2" C.]	2 [4 # 4/0 & 1 # 2 GRD, 2-1/2" C.]
500	2 [3 # 250kCM & 1 # 2 GRD, 2-1/2" C.]	2 [4 # 250kCM & 1 # 2 GRD, 3" C.]
550	2 [3 # 300kCM & 1 # 1 GRD, 3" C.]	2 [4 # 300kCM & 1 # 1 GRD, 3" C.]
600	2 [3 # 350kCM & 1 # 1 GRD, 3" C.]	2 [4 # 350kCM & 1 # 1 GRD, 3" C.]
700	2 [3 # 500kCM & 1 # 1/0 GRD, 3-1/2" C.]	2 [4 # 500kCM & 1 # 1/0 GRD, 3-1/2" C.]
760	2 [3 # 500kCM & 1 # 1/0 GRD, 3-1/2" C.]	2 [4 # 500kCM & 1 # 1/0 GRD, 3-1/2" C.]
800	2 [3 # 600kCM & 1 # 1/0 GRD, 3-1/2" C.]	2 [4 # 600kCM & 1 # 1/0 GRD, 4" C.]
1000	4 [3 # 250kCM & 1 # 2/0 GRD, 2-1/2" C.]	4 [4 # 250kCM & 1 # 2/0 GRD, 3" C.]
1200	4 [3 # 350kCM & 1 # 3/0 GRD, 3" C.]	4 [4 # 350kCM & 1 # 3/0 GRD, 3-1/2" C.]
1600	4 [3 # 600kCM & 1 # 4/0 GRD, 3-1/2" C.]	4 [4 # 600kCM & 1 # 4/0 GRD, 4" C.]
2000	5 [3 # 600kCM & 1 # 250kCM GRD, 3-1/2" C.]	5 [4 # 600kCM & 1 # 250 GRD, 4" C.]
2500	6 [3 # 600kCM & 1 # 350kCM GRD, 4" C.]	6 [4 # 600kCM & 1 # 350 GRD, 4" C.]
3000	8 [3 # 500kCM & 1 # 400kCM GRD, 4" C.]	8 [4 # 500kCM & 1 # 400 GRD, 4" C.]
4000	10 [3 # 600kCM & 1 # 500kCM GRD, 4" C.]	10 [4 # 600kCM & 1 # 500 GRD, 5" C.]

Table based on the NEC
EMT conduit & THHN Copper Conductors

GENERAL NOTES:

1. THE ADJACENT FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
2. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
3. A.I.C. RATINGS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COMPLETE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY PRIOR TO ORDERING EQUIPMENT. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
4. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.

200-4G — FEEDER DESIGNATION
1111 — ROOM NUMBER
SYSTEM DESCRIPTION
(3) 3Ø, 3W
(3G) 3Ø, 3W + GRD
(4) 3Ø, 4W
(4G) 3Ø, 4W + GRD
CONDUCTOR AMPACITY
(SEE FEEDER SCHEDULE)

FEEDER LEGEND:

1. ALL ITEMS INDICATED BY A DARK SOLID LINE ——— ARE NEW.
2. ALL ITEMS INDICATED BY A LIGHT SOLID LINE ——— ARE EXISTING TO REMAIN.
3. ALL ITEMS INDICATED BY A DASHED-DOT-DOT-DASH LINE —··—·· ARE EXISTING TO BE REMOVED.
4. ALL ITEMS INDICATED BY DASH-SHORT DASH-DASH LINE — — — INDICATE EQUIPMENT ENCLOSURES.
5. ALL ITEMS INDICATED BY A LIGHT DASHED LINE - - - - - - INDICATE FUTURE EQUIPMENT AND WORK.
6. ALL ITEMS INDICATED BY A DARK DASHED LINE – – – – INDICATE TEMPORARY EQUIPMENT AND WORK.

REFERENCE NOTES: <#>

1. NEW 800A POWERPACT MOLDED CASE MG MODEL BREAKER TO REPLACE EXISTING TEMPORARY 200A BREAKER. EC TO FURTHER MODIFY SWITCHBOARD AS REQUIRED TO ALLOW NEW 800A BREAKER TO FIT WITHIN SWITCHBOARD. TEMPORARY 200A BREAKER INSTALLED AS PART OF PHASE 1 FOR TEMP POWER TO BIO LAB PANEL.
2. INTERCEPT CONDUIT AND CONDUCTORS POWERING PANEL 'RP-E' FROM SWITCHBOARD 'MSB' AND EXTEND NEW FROM DISTRIBUTION PANEL 'PP-C'. REMOVE CONDUCTORS FROM 'MSB' TO 'RP-E'. COORDINATE SHUTDOWN WITH CONSTRUCTION MANAGER.
3. COORDINATE FEEDER ROUTING WITH ELECTRICAL UTILITY AND CIVIL CONTRACTOR. FIRE PUMP FEEDERS SHALL BE ENCASED IN MINIMUM 2" OF CONCRETE WHERE REQUIRED BY AHJ.
4. PROVIDE UTILITY-APPROVED METER FOR FIRE PUMP SERVICE. COORDINATE FINAL LOCATION WITH UTILITY PRIOR TO INSTALLATION.
5. PROVIDE WITH INTEGRAL OWNER METER PER SPECIFICATION 26 27 13.
6. TAP EXISTING INCOMING UTILITY SERVICE. COORDINATE WITH UTILITY COMPANY.

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Issuance

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL RISER DIAGRAM

Sheet
E004

REFERENCE NOTES:

1. EXISTING GAS WATER HEATER TO BE REPLACED IN PLACE. DISCONNECT AND RECONNECT POWER AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR.

GENERAL NOTES:

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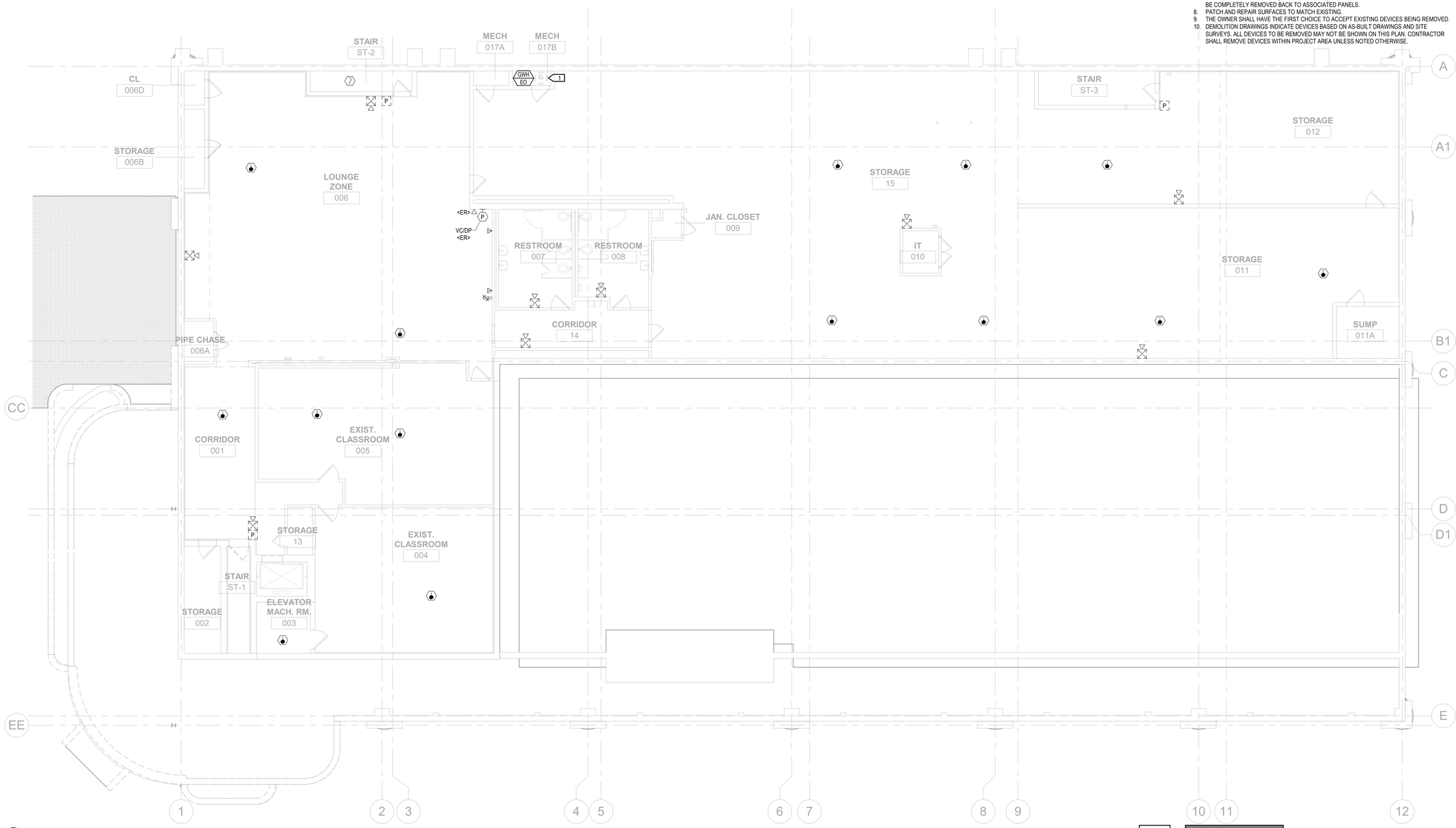

1 LOWER LEVEL SYSTEMS DEMOLITION PLAN

1/8" = 1'-0"

1/4"=1'-0" 0 2' 4' 8'

1/8"=1'-0" 0 2' 4' 8' 16'

3/32"=1'-0" 0 2' 4' 8' 16'

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Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER LEVEL POWER AND SYSTEMS DEMOLITION PLAN

Sheet
ED100

REFERENCE NOTES: <#>

1. DEMOLITION OF EXISTING FIRE ALARM SYSTEM SHALL BE PHASED WITH INSTALLATION OF NEW SYSTEM. EXISTING SYSTEM SHALL REMAIN UNTIL NEW SYSTEM IS FULLY INSTALLED AND TESTED.
2. MAINTAIN EXISTING 120V CIRCUIT FEEDING EXISTING FIRE ALARM PANEL FOR NEW FIRE ALARM PANEL.
3. EXISTING RECEPTACLE TO BE DEMOLISHED. ASSOCIATED CIRCUIT TO REMAIN FOR REUSE WITH NEW RECEPTACLES.
4. EXISTING MECHANICAL EQUIPMENT LOCATED ON MEZZANINE ABOVE TO BE DEMOLISHED. DEMOLISH ASSOCIATED FEEDERS AND CONDUIT BACK TO SOURCE. TURN OFF ASSOCIATED CIRCUIT BREAKER AND RELABEL AS 'SPARE'.
5. EXISTING INDUCTION COOKTOP AND KITCHEN HOOD TO BE RELOCATED. REFER TO SHEET E102 FOR NEW LOCATION.

GENERAL NOTES:

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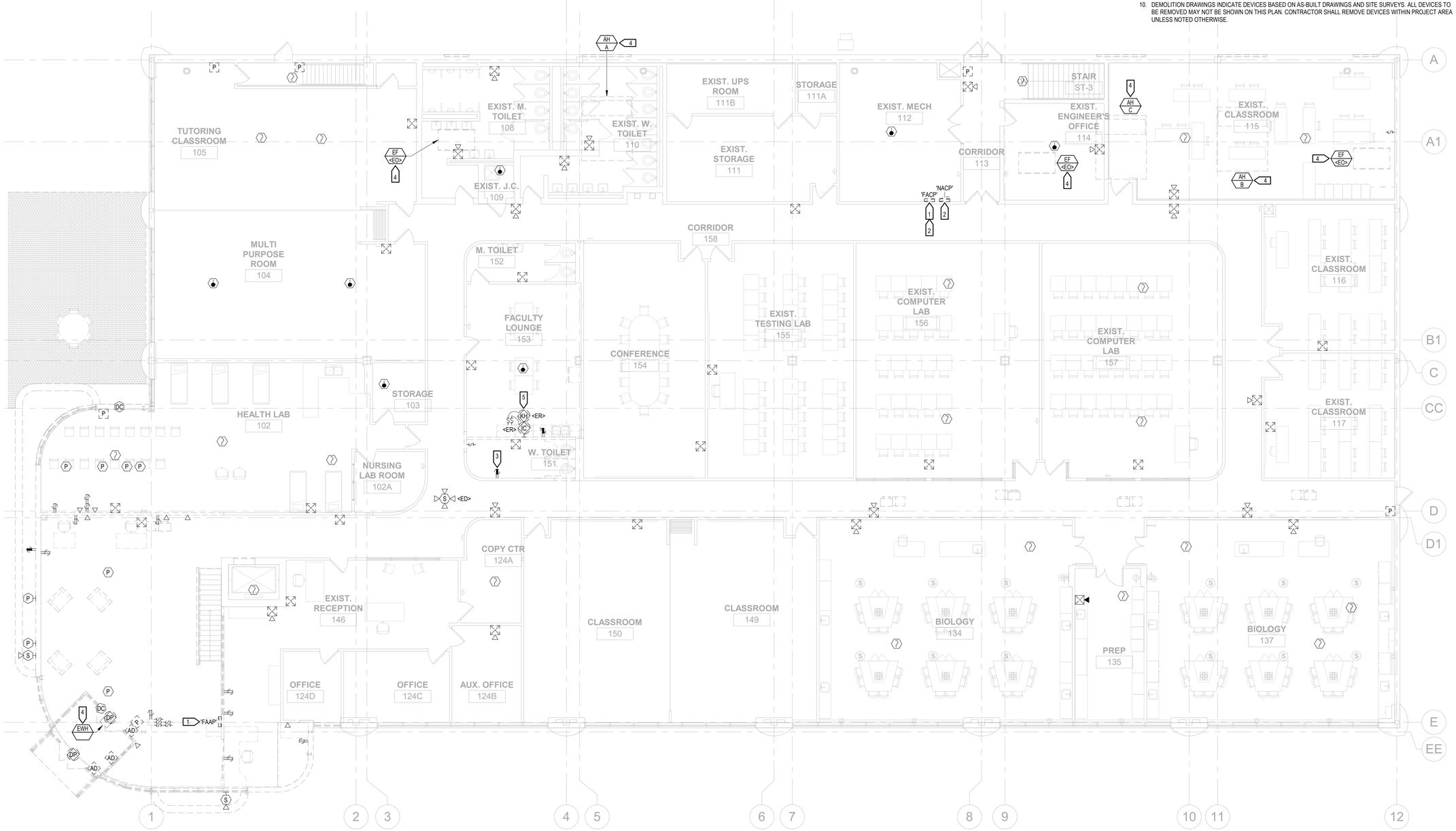
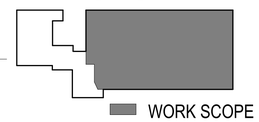


1 MAIN LEVEL POWER AND SYSTEMS DEMOLITION PLAN

1/8" = 1'-0"



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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL POWER AND SYSTEMS DEMOLITION PLAN

Sheet
ED101

REFERENCE NOTES: <#>

1. EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DEMOLISH ASSOCIATED FEEDERS AND CONDUIT BACK TO SOURCE. TURN OFF ASSOCIATED CIRCUIT BREAKER AND RELABEL AS 'SPARE'.

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1 ROOF POWER AND SYSTEMS DEMOLITION PLAN

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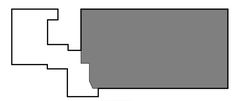

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ROOF POWER AND SYSTEMS DEMOLITION PLAN

Sheet
ED103

GENERAL NOTES:

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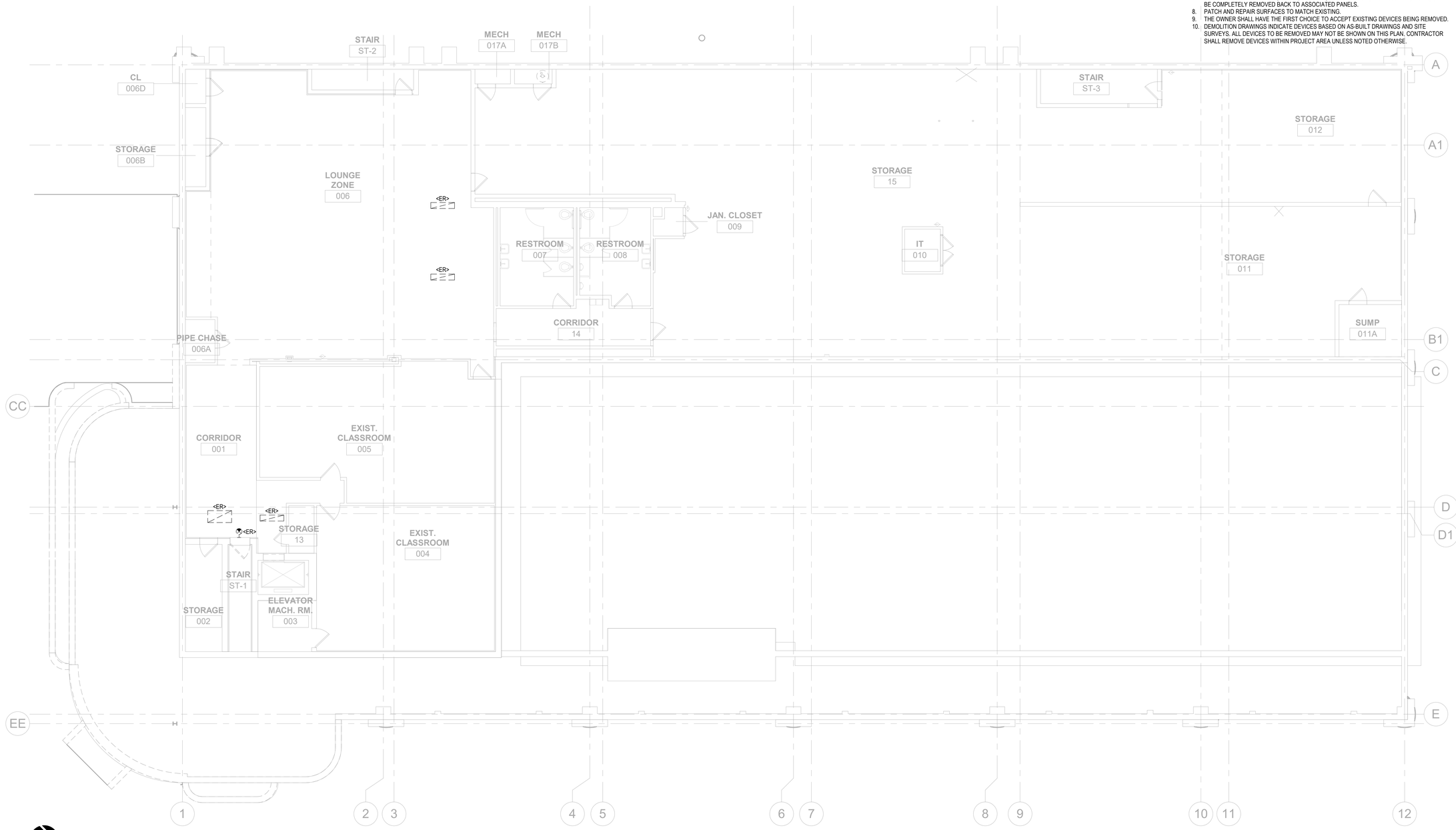
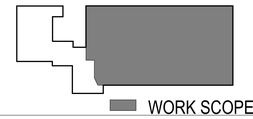
10. DEMOLITION DRAWINGS INDICATE DEVICES BASED ON AS-BUILT DRAWINGS AND SITE SURVEYS. ALL DEVICES TO BE REMOVED MAY NOT BE SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE DEVICES WITHIN PROJECT AREA UNLESS NOTED OTHERWISE.



1 LOWER LEVEL LIGHTING DEMOLITION PLAN

1/8" = 1'-0"



1/4"=1'-0" 0 2' 4' 8'

1/8"=1'-0" 0 2' 4' 8' 16'

3/32"=1'-0" 0 2' 4' 8' 16'

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WSLC ADDITION & RENOVATIONS

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Issuance

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER LEVEL LIGHTING DEMOLITION PLAN

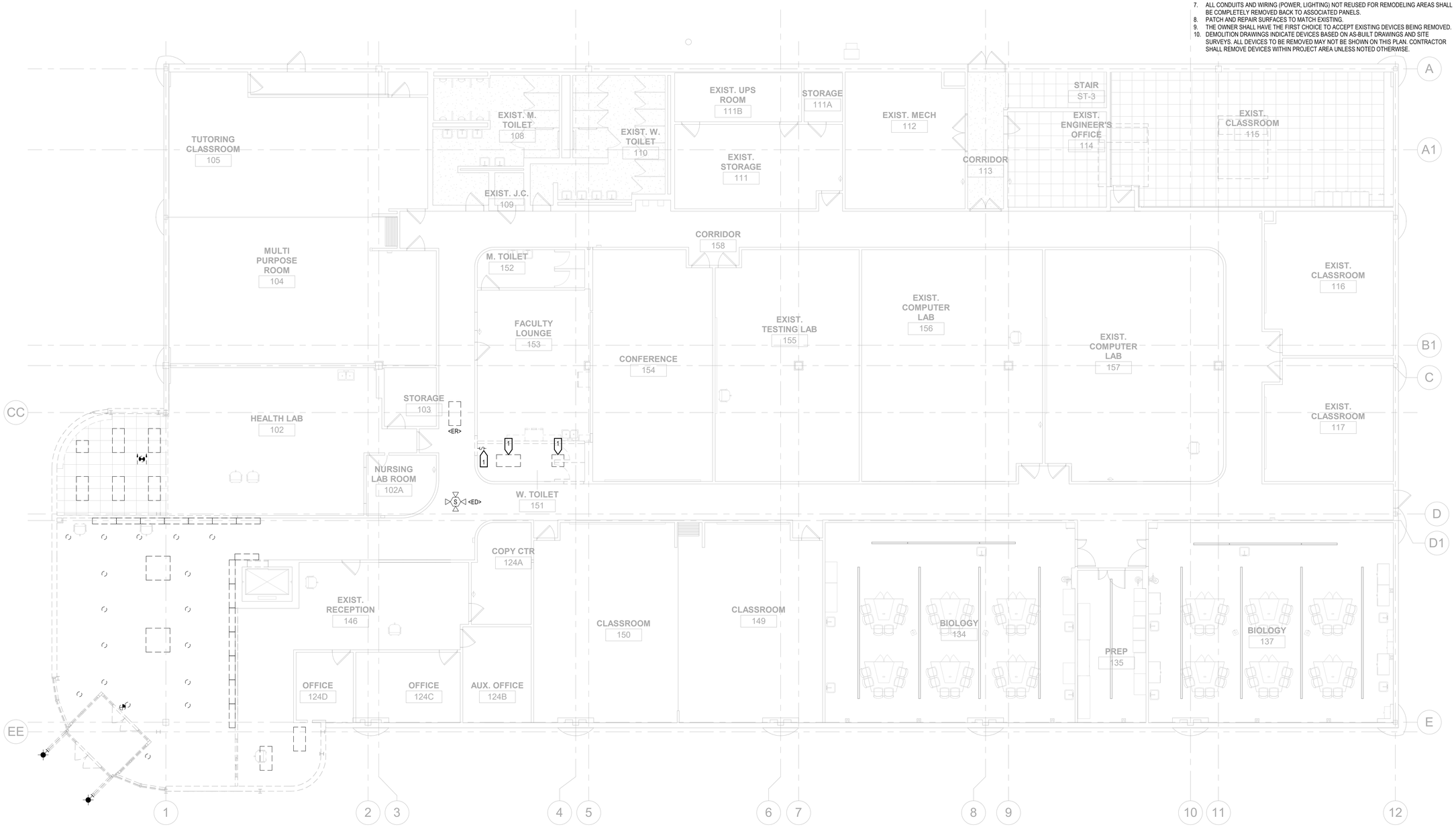
Sheet ED200

REFERENCE NOTES:

1. EXISTING LIGHT FIXTURE AND CONTROLS TO BE DEMOLISHED. ASSOCIATED CIRCUIT TO REMAIN FOR REUSE WITH NEW LIGHT FIXTURES.

GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENT SHOWN ON THIS DEMOLITION PLAN IS "EXISTING TO BE REMOVED" UNLESS NOTED OTHERWISE. IN ADDITION TO REMOVING DEVICES, REMOVE ALL ASSOCIATED ELECTRICAL CIRCUITS BACK TO SOURCE. REFER TO THE SPECIFICATIONS FOR ADDITIONAL ELECTRICAL DEMOLITION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTION, RELOCATING AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISH, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
3. REMOVE ALL EXPOSED/ABANDONED CONDUIT AND BOXES NOT TO BE USED FOR NEW WORK.
4. IN REMODELED/ALTERED AREA ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGHOUT THE REMODELED AREAS TO SERVE (OR BE SERVED FROM EXISTING ADJACENT, REMOTE OR SURROUNDING THAT ARE TO REMAIN) SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.
5. WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES SHALL BE REWIRED. IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUIT AND IN OPERATING CONDITION.
6. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF ALTERATION/REMODELING WORK.
7. ALL CONDUITS AND WIRING (POWER, LIGHTING) NOT REUSED FOR REMODELING AREAS SHALL BE COMPLETELY REMOVED BACK TO ASSOCIATED PANELS.
8. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
9. THE OWNER SHALL HAVE THE FIRST CHOICE TO ACCEPT EXISTING DEVICES BEING REMOVED.
10. DEMOLITION DRAWINGS INDICATE DEVICES BASED ON AS-BUILT DRAWINGS AND SITE SURVEYS. ALL DEVICES TO BE REMOVED MAY NOT BE SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE DEVICES WITHIN PROJECT AREA UNLESS NOTED OTHERWISE.



1 MAIN LEVEL LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

WORK SCOPE

1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 2' 4' 8' 16'
3/32"=1'-0" 0 4' 8' 16'

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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL LIGHTING DEMOLITION PLAN

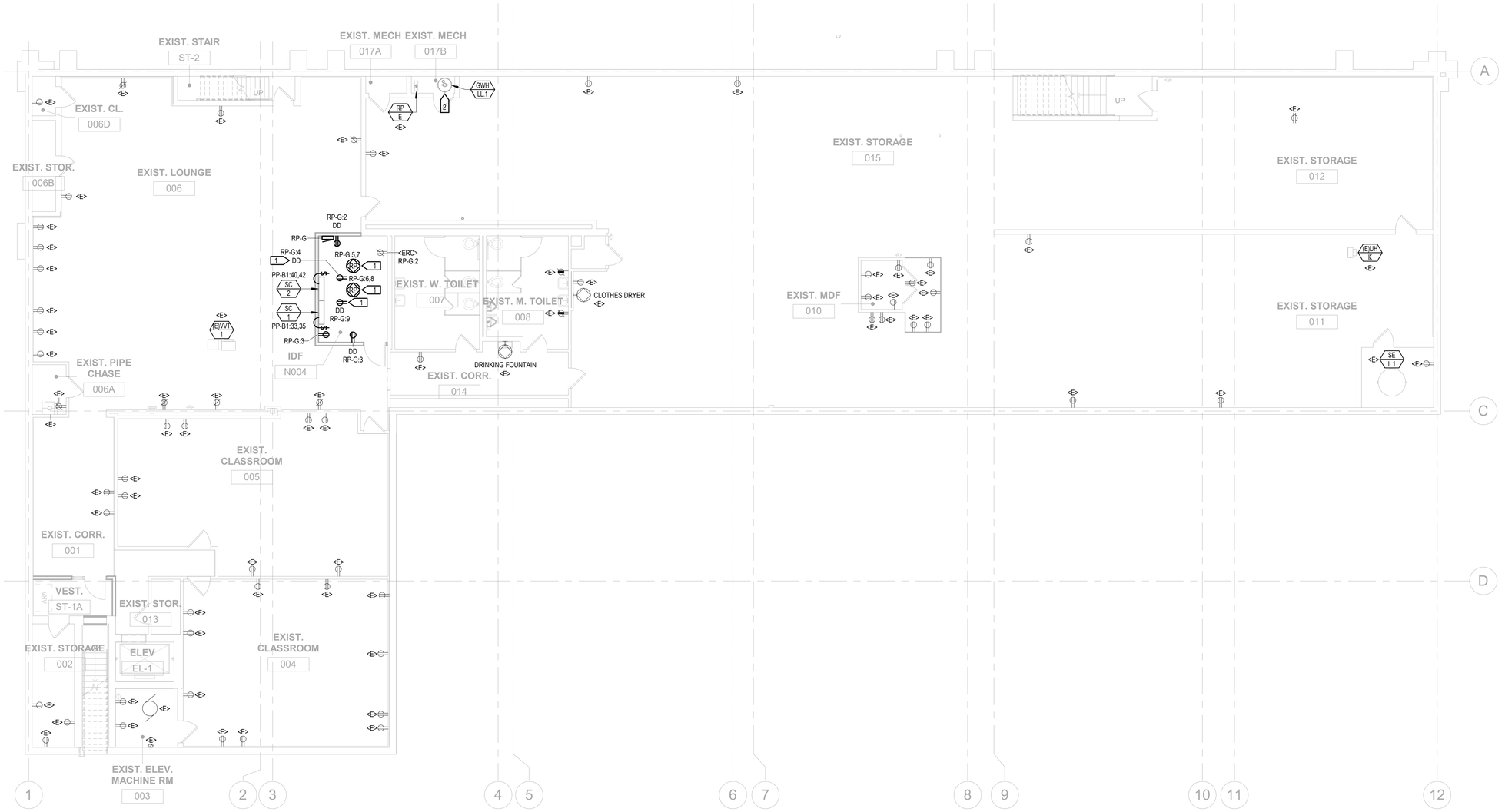
Sheet ED201

REFERENCE NOTES: <#>

1. RECEPTACLES SHALL BE MOUNTED ON THE SIDE OF THE LADDER RACK ABOVE THE BACK SIDE OF EACH DATA RACK. CONFIRM POWER REQUIREMENTS WITH OWNER.
2. EXISTING GAS WATER HEATER TO BE REPLACED IN PLACE. DISCONNECT AND RECONNECT POWER AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR.

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. CIRCUIT ALL NORMAL BRANCH CIRCUITS TO PANELBOARD 'RP-B' UNLESS NOTED OTHERWISE.
7. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
8. REFER TO SHEET E400 FOR PANEL LOCATIONS.
9. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).



1 LOWER LEVEL POWER - EXISTING FACILITY

1/8" = 1'-0"

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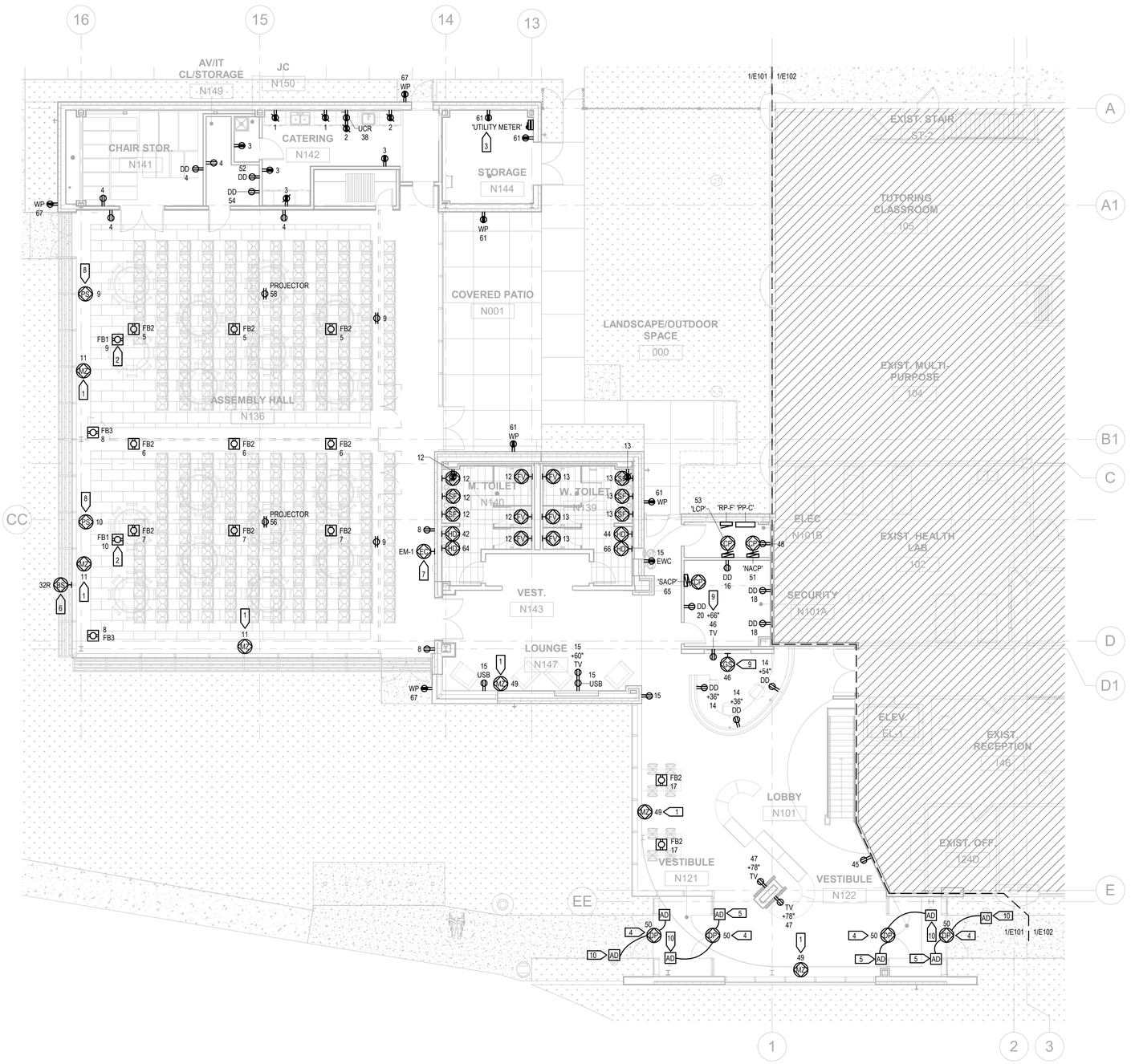
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER LEVEL POWER PLAN - EXISTING FACILITY

Sheet
E100



1 MAIN LEVEL POWER - ASSEMBLY HALL

1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. CIRCUIT ALL NORMAL BRANCH CIRCUITS TO PANELBOARD 'RP-F' UNLESS NOTED OTHERWISE.
7. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
8. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).

REFERENCE NOTES: <#>

1. POWER SHADES CONTROLLED BY ASSEMBLY HALL LIGHTING LOW VOLTAGE CONTROLLER. REFER TO LIGHTING SHEET E201 FOR CONTROLLER LOCATION. REFER TO CONTROLS MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
2. ROUTE (2) 1-1/4" CONDUITS FOR A/V AND (1) 1" CONDUIT FOR DATA FROM LECTERN FLOOR BOX UP TO ACCESSIBLE CEILING SPACE FOR OVERHEAD A/V SYSTEMS. FLOOR BOX SHOWN FOR REFERENCE ONLY. COORDINATE EXACT LOCATION WITH ARCHITECT.
3. PROVIDE UTILITY-APPROVED METER FOR FIRE PUMP SERVICE. COORDINATE FINAL LOCATION WITH UTILITY PRIOR TO INSTALLATION.
4. DOOR ACTUATOR TO BE CONTROLLED BY ADA-COMPLIANT PUSHPLATES. COORDINATE WITH MANUFACTURER FOR REQUIRED LOW VOLTAGE CONNECTIONS. REFER TO SYSTEMS PLAN ON SHEET E301 FOR PUSHPLATE AND ACTUATOR LOCATIONS.
5. AUTO-DOOR SHALL BE MOUNTED IN WINDOW MULLION. COORDINATE ROUGH-IN WITH WINDOW VENDOR PRIOR TO INSTALLATION.
6. PROVIDE POWER TO EXTERIOR WALL SIGNAGE. REFER TO ELEVATION 1/A400 FOR EXACT LOCATION.
7. PROVIDE ELECTRICAL CONNECTION TO EMERGENCY CALL SYSTEM. VERIFY FINAL LOCATION WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
8. PROJECTOR SCREEN CONTROLLED BY ASSEMBLY HALL LOW VOLTAGE LIGHTING CONTROLLER. REFER TO SHEET E501 FOR CONTROLLER LOCATION. REFER TO CONTROL MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
9. COORDINATE DEVICE MOUNTING WITH DESK DETAILS ON SHEET A952.
10. AUTODOOR OPERATOR TO BE MOUNTED ON BOLLARD. REFER TO VIEWS 10/A600 AND 11/A600 FOR EXACT LOCATION.

WORK SCOPE

1/4"=1'-0" 0" 2" 4" 8"
1/8"=1'-0" 0" 2" 4" 8" 16"
3/32"=1'-0" 0" 2" 4" 8" 16"

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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL POWER PLAN - ASSEMBLY HALL

Sheet
E101

REFERENCE NOTES: <#>

1. LOCATE AND EXTEND EXISTING CIRCUIT IN ROOM TO FEED NEW RECEPTACLE.
2. EXISTING INDUCTION COOKTOP AND KITCHEN HOOD TO BE RELOCATED. EXTEND EXISTING CIRCUIT(S) TO NEW LOCATIONS. PROVIDE NEW ABOVE COUNTER ON/OFF TOGGLE SWITCHES.

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
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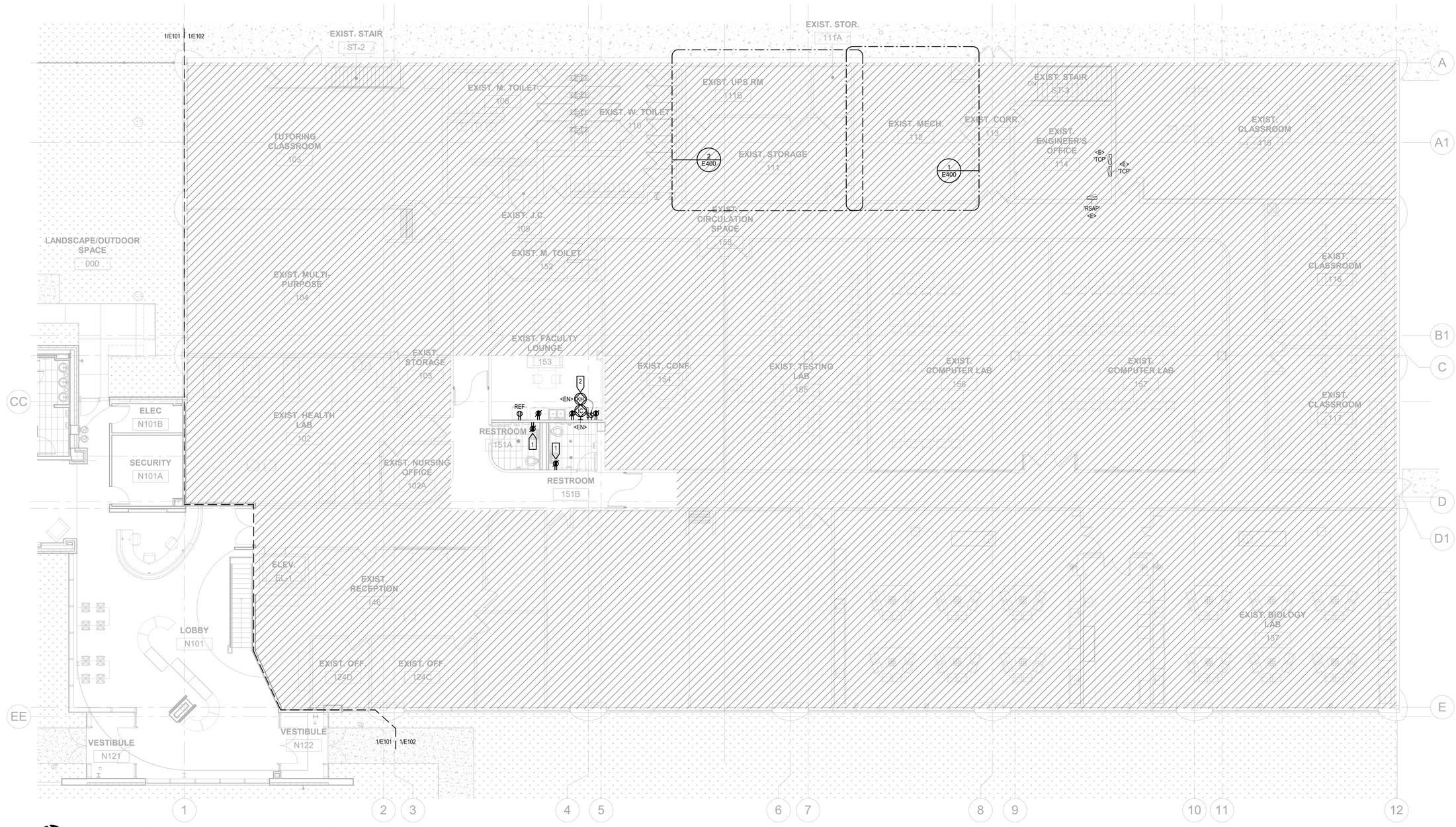
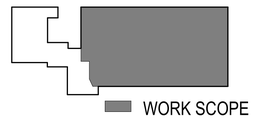
7. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
8. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).



1 MAIN LEVEL POWER - EXISTING FACILITY

1/8" = 1'-0"



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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL POWER PLAN - EXISTING FACILITY

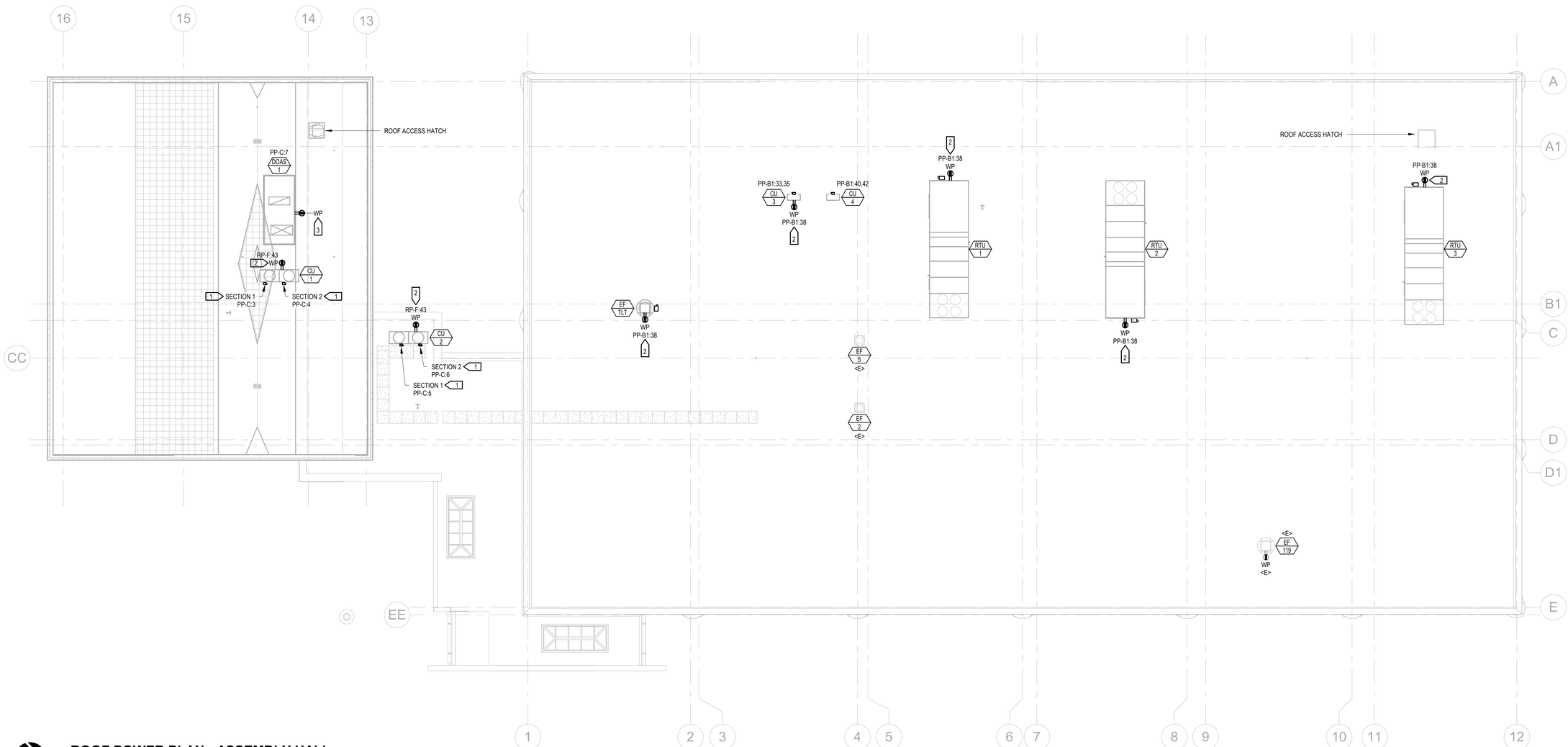
Sheet E102

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. REFER TO SHEETS E101 AND E400 FOR PANEL LOCATIONS.
7. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).
8. REFER TO DETAIL 4/E600 FOR CONDUIT ROOF PENETRATION REQUIREMENTS.

REFERENCE NOTES: <#>

1. EACH SECTION OF TWO-SECTION MECHANICAL EQUIPMENT TO BE POWERED INDEPENDENTLY. PROVIDE (1) NEMA-3R 208V, 3P, 125A NON-FUSED DISCONNECT PER SECTION.
2. PROVIDE AND INSTALL (1) GFCI CONVENIENCE RECEPTACLE IN WEATHERPROOF NEMA-3R ENCLOSURE FOR MECHANICAL EQUIPMENT.
3. CONVENIENCE RECEPTACLE SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.



1 ROOF POWER PLAN - ASSEMBLY HALL

3/32" = 1'-0"

1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 2' 4' 8' 16'
3/32"=1'-0" 0 2' 4' 8' 16'

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ROOF POWER PLAN

Sheet
E103

REFERENCE NOTES: <#>

1. VAV DDC WIRING TO BE INSTALLED BY OTHERS.
2. PROVIDE AND INSTALL NON-FUSED DISCONNECTS AS LOCAL MEANS OF ELECTRICAL DISCONNECT FOR FAN COIL UNITS.
3. E.C. TO INSTALL EQUIPMENT DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR.
4. PROVIDE AND INSTALL SINGLE-POLE, 120V, 20A TOGGLE SWITCH AS LOCAL MEANS OF ELECTRICAL DISCONNECT FOR EQUIPMENT.

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
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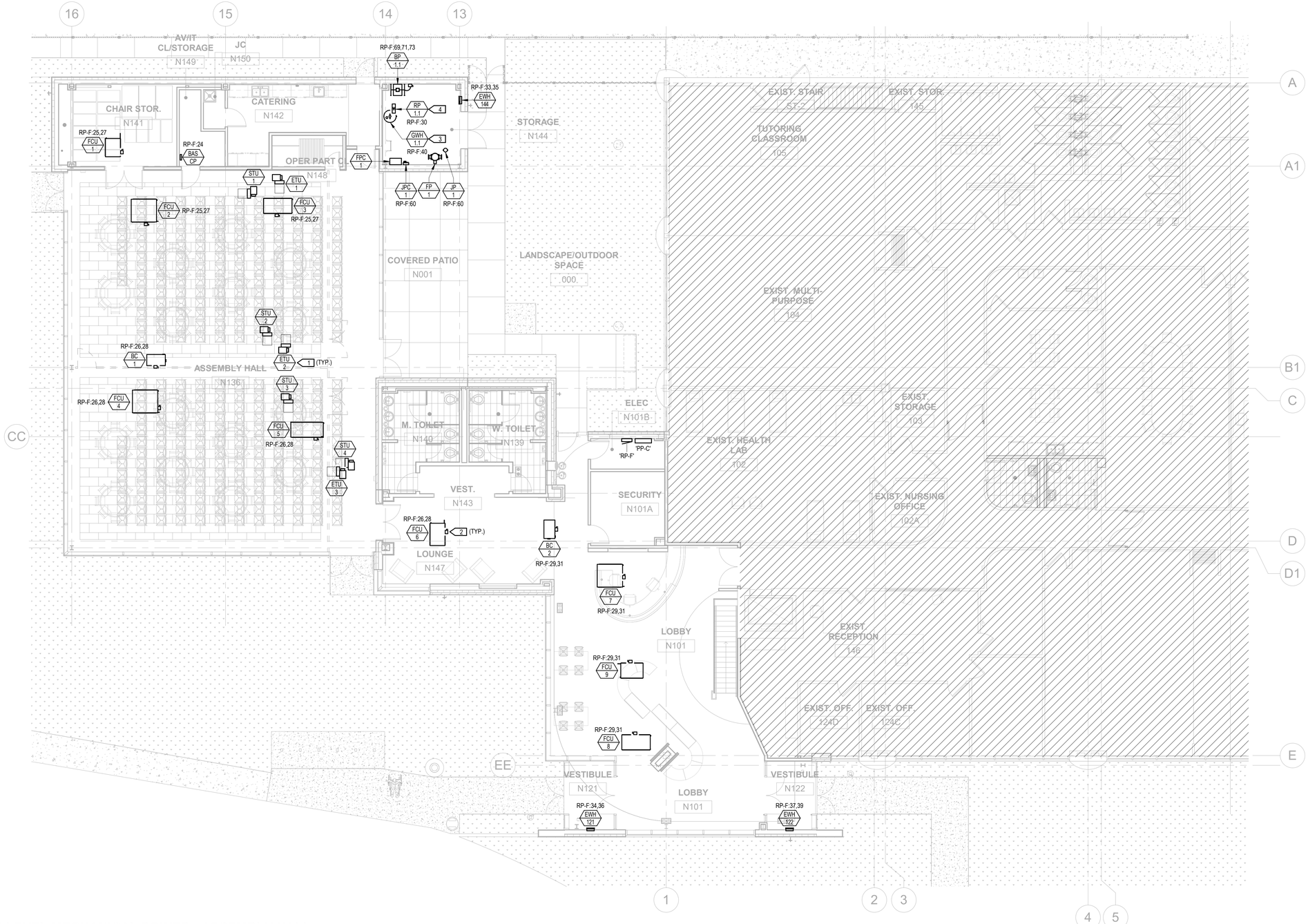

1 MAIN LEVEL MECHANICAL POWER - ASSEMBLY HALL

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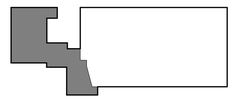

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Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

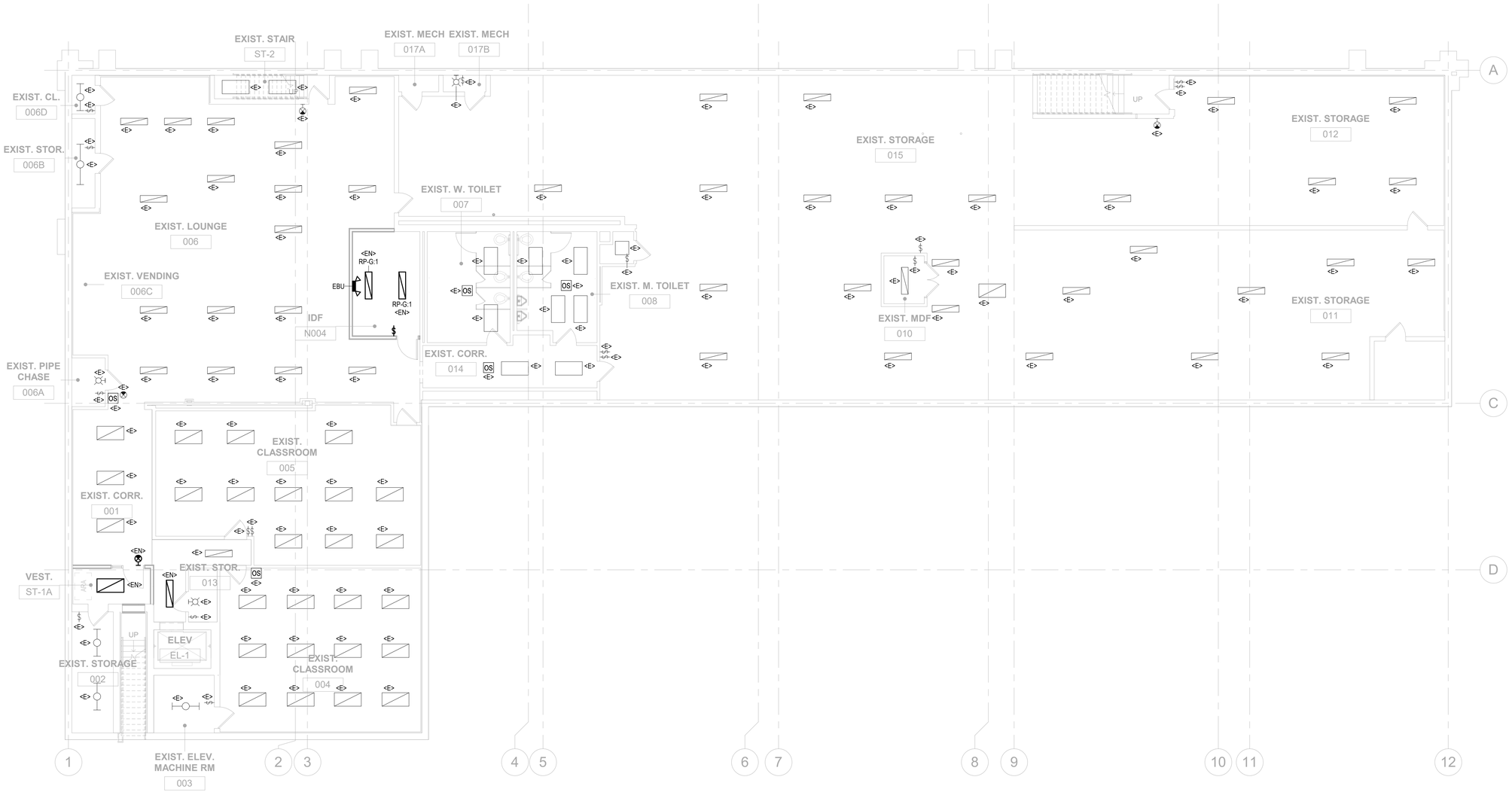
Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL MECHANICAL POWER PLAN

Sheet E111

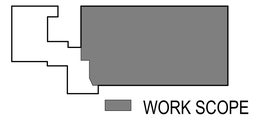
GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
7. REFER TO SHEETS E100 AND E400 FOR PANEL LOCATIONS.
8. ALL EMERGENCY BATTERY UNITS SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.
9. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).



1 LOWER LEVEL LIGHTING PLAN - EXISTING FACILITY

1/8" = 1'-0"



1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 4' 8' 16'
3/32"=1'-0" 0 8' 16'

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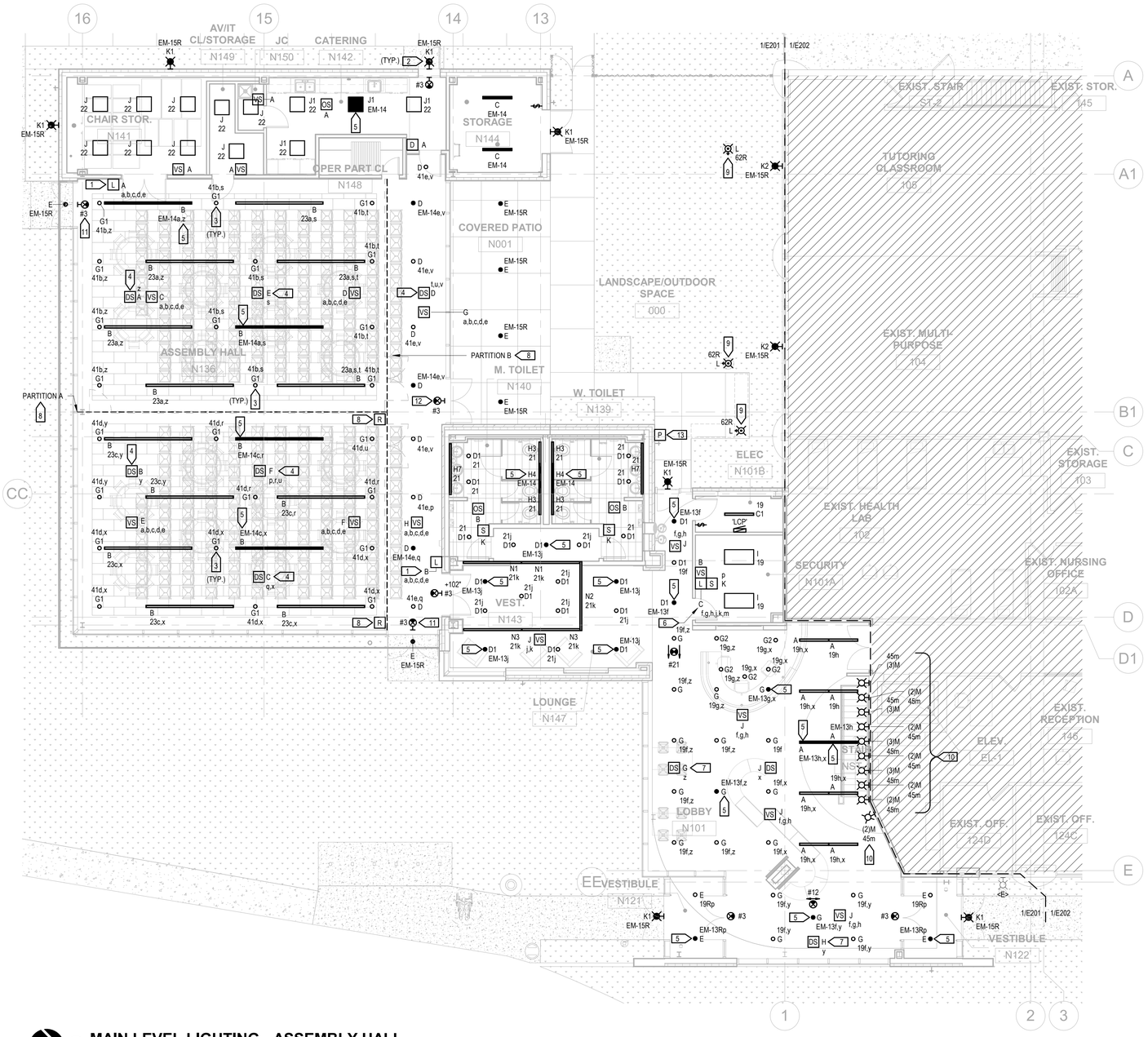
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

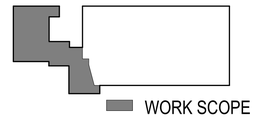
Title
LOWER LEVEL LIGHTING PLAN - EXISTING FACILITY

Sheet
E200



1 **MAIN LEVEL LIGHTING - ASSEMBLY HALL**

1/8" = 1'-0"



1/4"=1'-0" 0" 2" 4" 8"

1/8"=1'-0" 0" 2" 4" 16"

3/32"=1'-0" 0" 2" 4" 24"

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. CIRCUIT ALL NORMAL BRANCH CIRCUITS TO PANELBOARD 'RP-F' UNLESS NOTED OTHERWISE.
7. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
8. REFER TO SHEETS E101 AND E400 FOR PANEL LOCATIONS.
9. ALL EXIT SIGNS SHALL BE CIRCUITED TO EM:16.
10. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).

REFERENCE NOTES: <#>

1. LOW VOLTAGE TOUCH SCREEN TO CONTROL POWERED WINDOW SHADES AND PROJECTOR SCREENS. REFER TO SHEET E101 FOR CIRCUITING INFORMATION. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E500 AND LIGHTING CONTROL MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
2. EXTERIOR LIGHTING TO BE POWERED VIA CIRCUIT AS INDICATED. FIXTURES SHALL BE CONTROLLED BY EXISTING SYSTEMS USED FOR EXISTING POLE LIGHTS. ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD WHICH RELAYS ARE USED TO CONTROL EXTERIOR LIGHTING.
3. **ADD ALTERNATE:** PROVIDE SEPARATE COST TO OWNER FOR INSTALLATION OF TYPE 'G1' LIGHT FIXTURES WITHIN ASSEMBLY HALL.
4. DAYLIGHT SENSORS SHALL PROVIDE AUTOMATIC DAYLIGHT DIMMING FOR INDICATED SWITCH LEGS. SWITCH LEGS CONTROLLED VARIES BASED ON POSITIONS OF PARTITIONS A AND B. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E500 AND LIGHTING CONTROL MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
5. FIXTURE SHALL BE CIRCUITED TO LIFE SAFETY CIRCUIT AS INDICATED.
   A. FIXTURE SHALL BE PROVIDED WITH A UL-924 AUTOMATIC LOAD CONTROL RELAY TO ALLOW FOR LOCAL LIGHTING CONTROL. RELAY SHALL BE MOUNTED IN ACCESSIBLE LOCATION AND HAVE A TEST SWITCH TO VERIFY OPERATIONAL STATUS. VERIFY FINAL TEST SWITCH LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
   B. CONTRACTOR SHALL PROVIDE NORMAL AND EMERGENCY WIRING TO UL-924 DEVICE AS REQUIRED BY MANUFACTURER.
6. LOW VOLTAGE TOUCH SCREEN TO CONTROL POWERED WINDOW SHADES. REFER TO SHEET E101 FOR LOCATION AND CIRCUITING INFORMATION. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E500 AND LIGHTING CONTROL MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
7. DAYLIGHT SENSORS SHALL PROVIDE AUTOMATIC DAYLIGHT DIMMING FOR INDICATED SWITCH LEGS. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E500 FOR ADDITIONAL INFORMATION.
8. PROVIDE RELAY/SENSOR FOR MOVABLE PARTITIONS, nLIGHT PARTITION KIT OR APPROVED EQUIVALENT. LIGHTING CONTROLS AND DAYLIGHT ZONES SHALL VARY BASED ON PARTITION LOCATION. REFER TO LIGHTING CONTROL MATRIX ON SHEET E503 FOR ADDITIONAL INFORMATION.
9. COORDINATE FINAL BOLLARD LOCATIONS WITH LANDSCAPE AND CIVIL DRAWINGS.
10. LED BLADE LIGHTS WITH CUSTOM TEXT (24 TOTAL). FIXTURES TO BE SET IN WALL WITH BLADES EXTENDING OUT 4". REFER TO 7/A601, 2/A716, AND 3/A716 FOR ADDITIONAL INFORMATION.
11. EXIT SIGN SHALL BE MOUNTED IN WINDOW MULLION APPROXIMATELY +10'-2" AFF TO TOP OF FIXTURE. COORDINATE ROUGH-IN WITH WINDOW VENDOR PRIOR TO INSTALLATION.
12. EXIT SIGN SHALL BE MOUNTED IN WINDOW MULLION APPROXIMATELY +10'-5" AFF TO TOP OF FIXTURE. COORDINATE ROUGH-IN WITH WINDOW VENDOR PRIOR TO INSTALLATION.
13. PROVIDE PHOTOCELL FOR INTERFACE WITH LIGHTING RELAY CONTROL PANEL. PHOTOCELL SHALL BE MOUNTED ON NORTH FACE OF BUILDING. VERIFY FINAL MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

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PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL LIGHTING PLAN - ASSEMBLY HALL

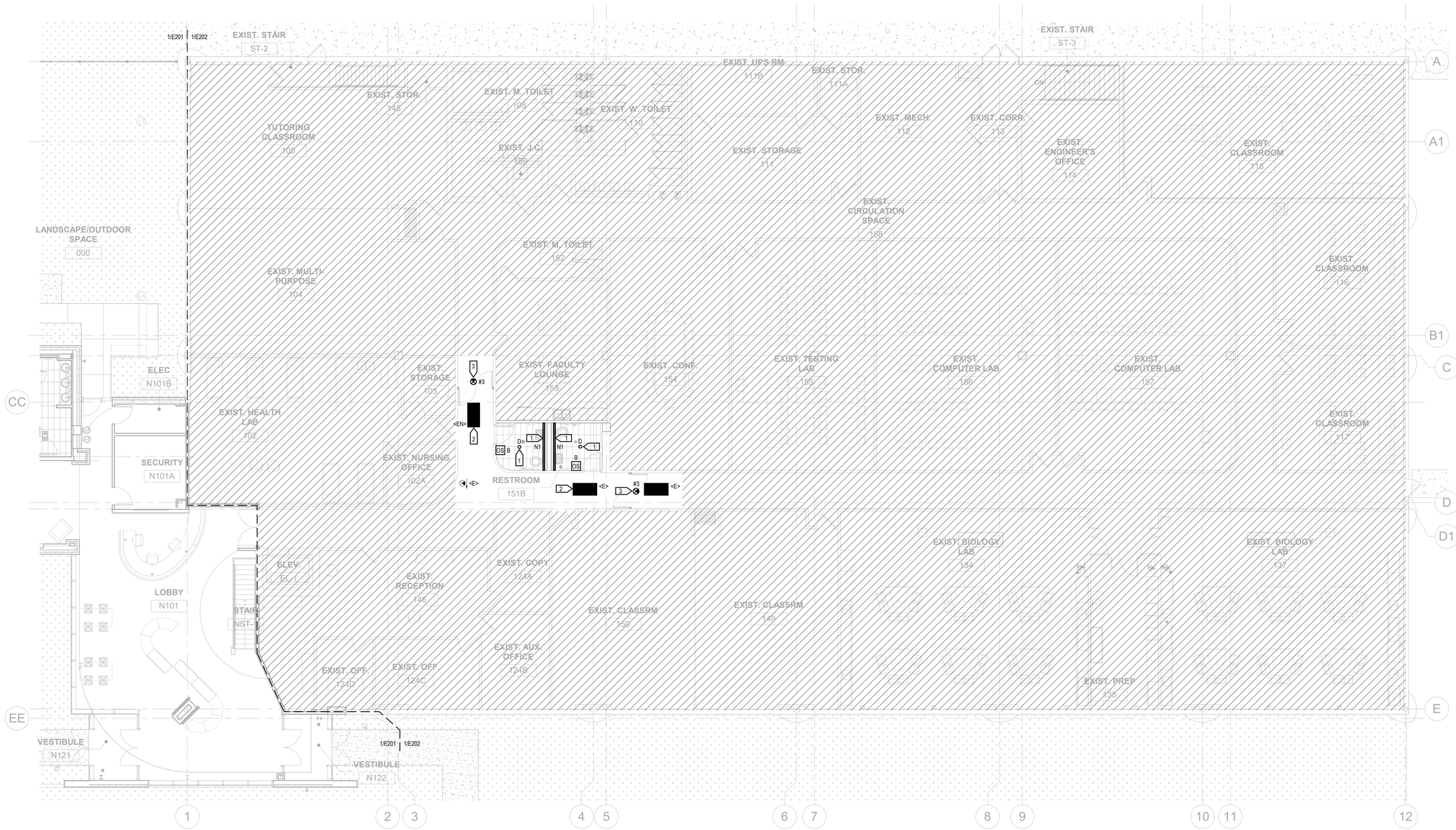
Sheet
E201

REFERENCE NOTES: <#>

1. LOCATE AND EXTEND EXISTING LIGHT FIXTURE CIRCUIT IN ROOM TO FEED NEW LIGHT FIXTURES.
2. RECIRCUIT EXISTING/RELOCATED LIGHT FIXTURE TO EXISTING CORRIDOR EGRESS CIRCUIT.
3. LOCATE AND EXTEND EXISTING EXIT SIGN CIRCUIT IN CORRIDOR TO FEED NEW EXIT SIGNAGE.

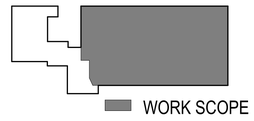
GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. CIRCUIT RUNS ARE DIAGRAMMATIC IN NATURE, DETERMINE ACTUAL CIRCUIT RUNS IN FIELD.
5. CIRCUIT NUMBERS ARE FOR TOTAL CIRCUIT COUNT ONLY. CONTRACTOR SHALL DETERMINE ACTUAL CIRCUIT NUMBERS USED IN FIELD.
6. CIRCUIT ALL NORMAL BRANCH CIRCUITS TO PANELBOARD 'LP-F' UNLESS NOTED OTHERWISE.
7. CIRCUIT ALL EMERGENCY "EM" BRANCH CIRCUITS TO PANELBOARD 'EM' UNLESS NOTED OTHERWISE.
8. REFER TO SHEETS E400 FOR PANEL LOCATIONS.
9. EXISTING CIRCUITS TO BE RE-USED SHALL BE FIELD VERIFIED BY CONTRACTOR TO CARRY NO MORE LOAD THAN 1920 VA (16A @ 120V).



1 MAIN LEVEL LIGHTING - EXISTING FACILITY

1/8" = 1'-0"



1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 2' 4' 8' 16'
3/32"=1'-0" 0 4' 8' 16'

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL LIGHTING PLAN - EXISTING FACILITY

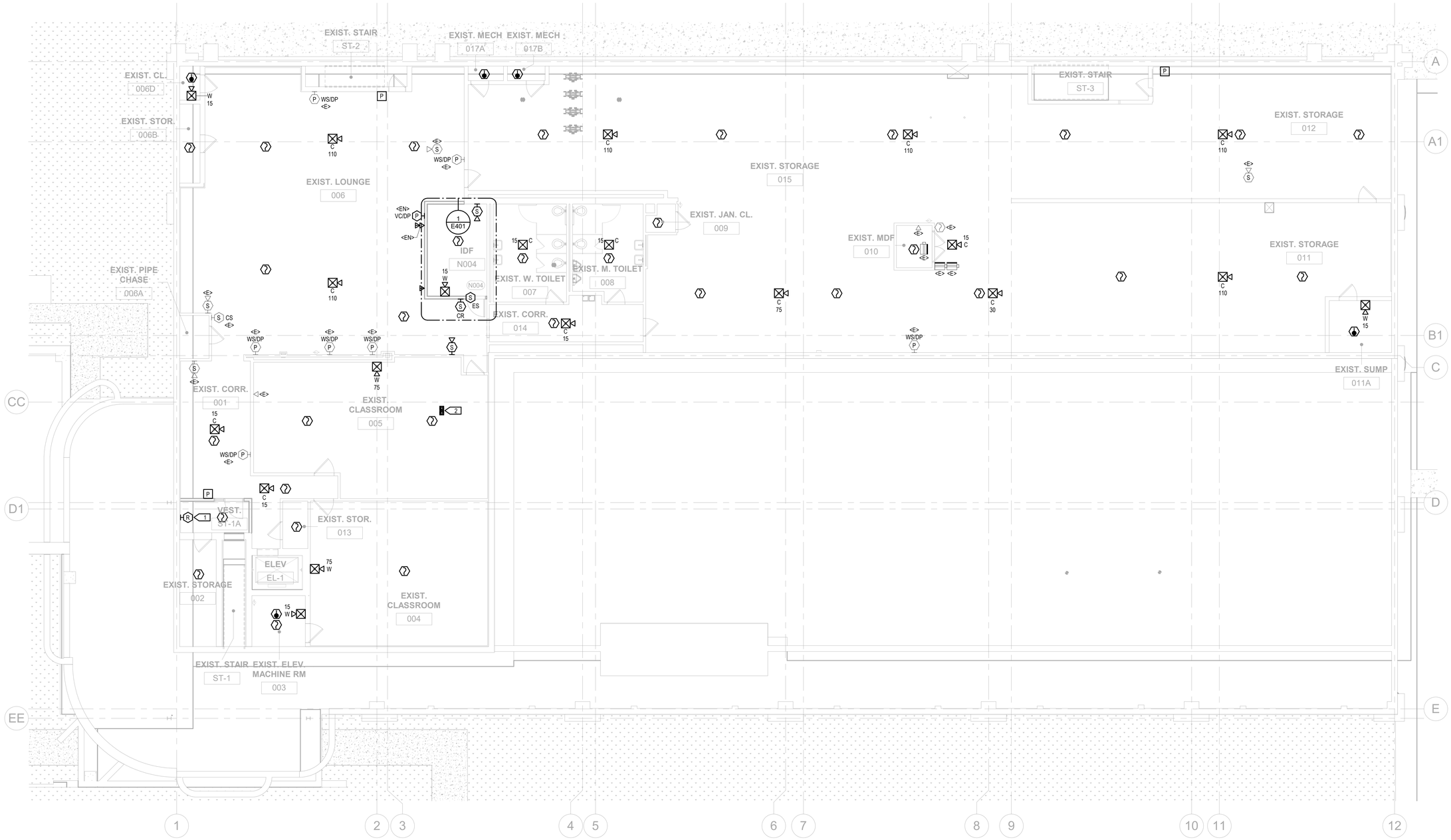
Sheet E202

REFERENCE NOTES: <1>

1. PROVIDE TWO-WAY COMMUNICATION SYSTEM CALL STATION RATH 2500-205FM OR APPROVED EQUIVALENT, FLUSH MOUNTED. PROVIDE WITH ALL REQUIRED WIRING, BATTERY BACKUP, AND ACCESSORIES FOR A COMPLETE SYSTEM. FINISH SHALL BE AS SELECTED BY ARCHITECT/OWNER.
2. APPROXIMATE LOCATION OF CEILING-MOUNTED TELECOMMUNCATIONS CABLING SLEEVES. REFER TO SHEET E302 FOR SLEEVE INFORMATION AND LOCATION ON FLOOR ABOVE.

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. LOW VOLTAGE & A/V INSTALLATION LIMITED TO ROUGH-IN ONLY. CABLING, INSTALLATION, AND ACTIVATION BY OWNER.
5. VERIFY ROUGH-IN LOCATION OF ALL SECURITY DEVICES WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
6. REFER TO DETAIL 3/E601 FOR LOW VOLTAGE ROUGH-IN REQUIREMENTS.
7. REFER TO DETAIL 1/E600 FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.
8. REFER TO DETAIL 6/E600 FOR THE FIRE ALARM SYSTEM RISER DIAGRAM.
9. REFER TO DETAIL 5/E600 FOR FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHTS.



1 LOWER LEVEL OVERALL SYSTEMS PLAN - EXISTING FACILITY

1/8" = 1'-0"

WORK SCOPE

1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 2' 4' 8' 16'
3/32"=1'-0" 0 2' 4' 8' 16'

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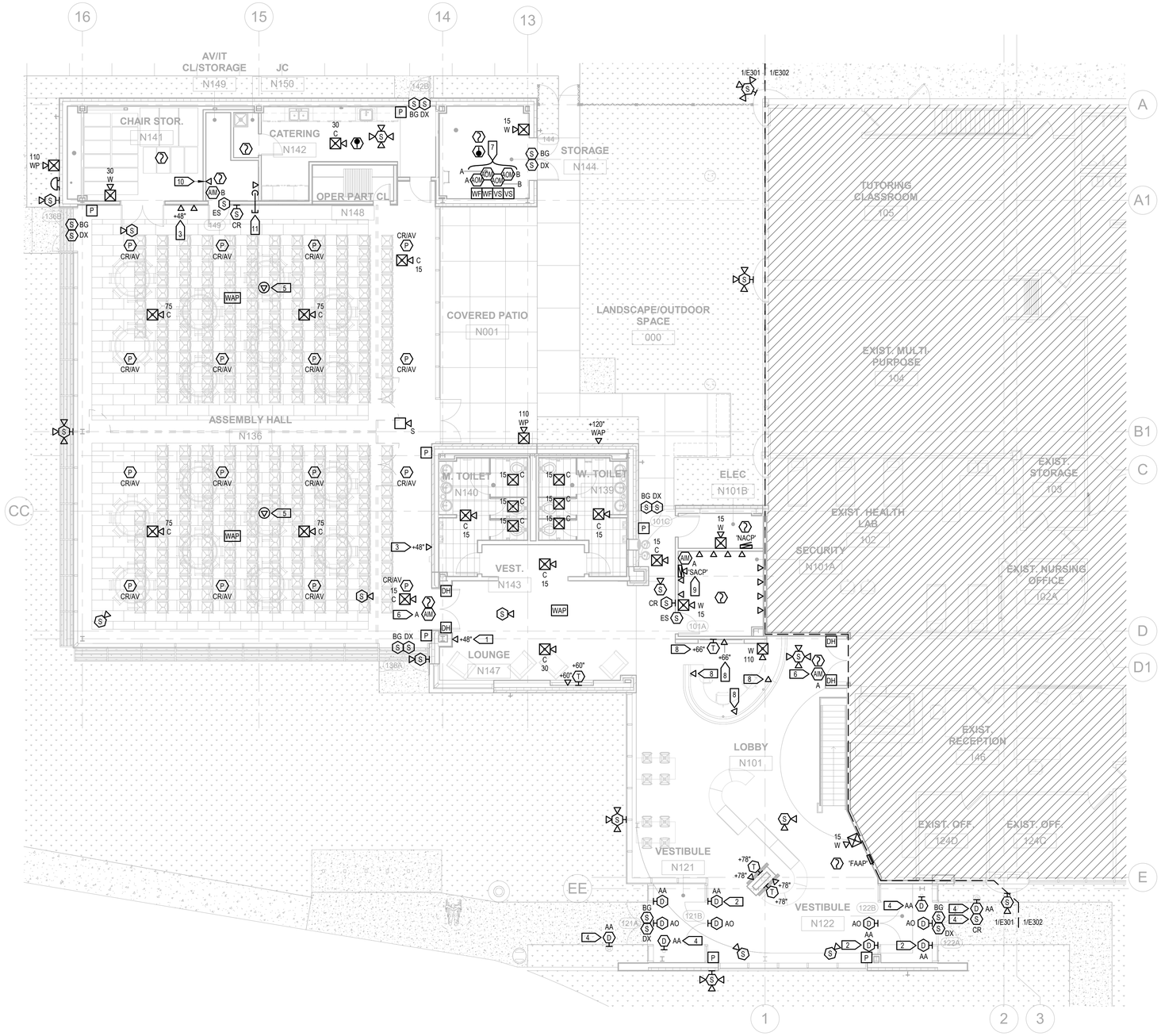
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
LOWER LEVEL SYSTEMS PLAN - EXISTING FACILITY

Sheet E300



1 MAIN LEVEL SYSTEMS - ASSEMBLY HALL

1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. LOW VOLTAGE & A/V INSTALLATION LIMITED TO ROUGH-IN ONLY. CABLING, INSTALLATION, AND ACTIVATION BY OWNER.
5. VERIFY ROUGH-IN LOCATION OF ALL SECURITY DEVICES WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
6. REFER TO DETAIL 3/E601 FOR LOW VOLTAGE ROUGH-IN REQUIREMENTS.
7. REFER TO DETAIL 1/E600 FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.
8. REFER TO DETAIL 6/E600 FOR THE FIRE ALARM SYSTEM RISER DIAGRAM.
9. REFER TO DETAIL 5/E600 FOR FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHTS.

REFERENCE NOTES: ⟨#⟩

1. PROVIDE ROUGH-IN AT INDICATED HEIGHT FOR ROOM SCHEDULER. REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR EXACT LOCATION.
2. ADA DOOR OPENER PUSH PLATE AND CARD READER MOUNTED IN WINDOW MULLION. ROUTE CONDUCTORS TO DOOR OPERATOR THROUGH FRAME AS APPLICABLE. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND TYPE. COORDINATE ROUGH-IN WITH WINDOW VENDOR PRIOR TO INSTALLATION.
3. PROVIDE ROUGH-IN FOR WALL-MOUNTED TALKMASTER EMERGENCY CALL SYSTEM. VERIFY FINAL LOCATION WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
4. DOOR HARDWARE TO BE MOUNTED ON BOLLARD. REFER TO VIEWS 10/A600 AND 11/A600 FOR EXACT LOCATION.
5. PROVIDE ROUGH-IN FOR CEILING-MOUNTED PROJECTOR.
6. PROVIDE ADDRESSABLE INPUT MODULE FOR DOOR HOLD-OPENS. UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR(S), POWER TO DOOR HOLD-OPENS SHALL BE CUT, CLOSING DOORS AND MAINTAINING WALL FIRE RATING.
7. PROVIDE ADDRESSABLE OUTPUT MODULES FOR FIRE PROTECTION RISER TAMPER AND FLOW SWITCHES. MODULES SHALL MONITOR FLOW/TAMPER SWITCHES AND REPORT STATUSES TO THE FIRE ALARM CONTROL PANEL. COORDINATE FINAL QUANTITY AND LOCATIONS WITH FIRE PROTECTION CONTRACTOR.
8. COORDINATE DEVICE MOUNTING WITH DESK DETAILS ON SHEET A952.
9. PROVIDE ROUGH-IN FOR DATA CONNECTION TO SECURITY ACCESS PANEL. COORDINATE FINAL LOCATION WITH OWNER'S SECURITY VENDOR.
10. PROVIDE ROUGH-IN FOR DATA CONNECTION TO BAS CONTROL PANEL. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
11. PROVIDE 2" EMT CONDUIT STUB FOR TELECOMMUNICATIONS CABLING ROUTING. CONDUIT SHALL EXTEND FROM +48" AFF IN AV/IT/CL/STORAGE N149 TO ABOVE ACCESSIBLE CEILING IN ASSEMBLY HALL N136. PROVIDE BUSHINGS AT BOTH ENDS OF CONDUIT.

WORK SCOPE

1/4"=1'-0" 0 2' 4' 8'
1/8"=1'-0" 0 4' 8' 16'
3/32"=1'-0" 0 3' 6' 12'

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PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL SYSTEMS PLAN - ASSEMBLY HALL

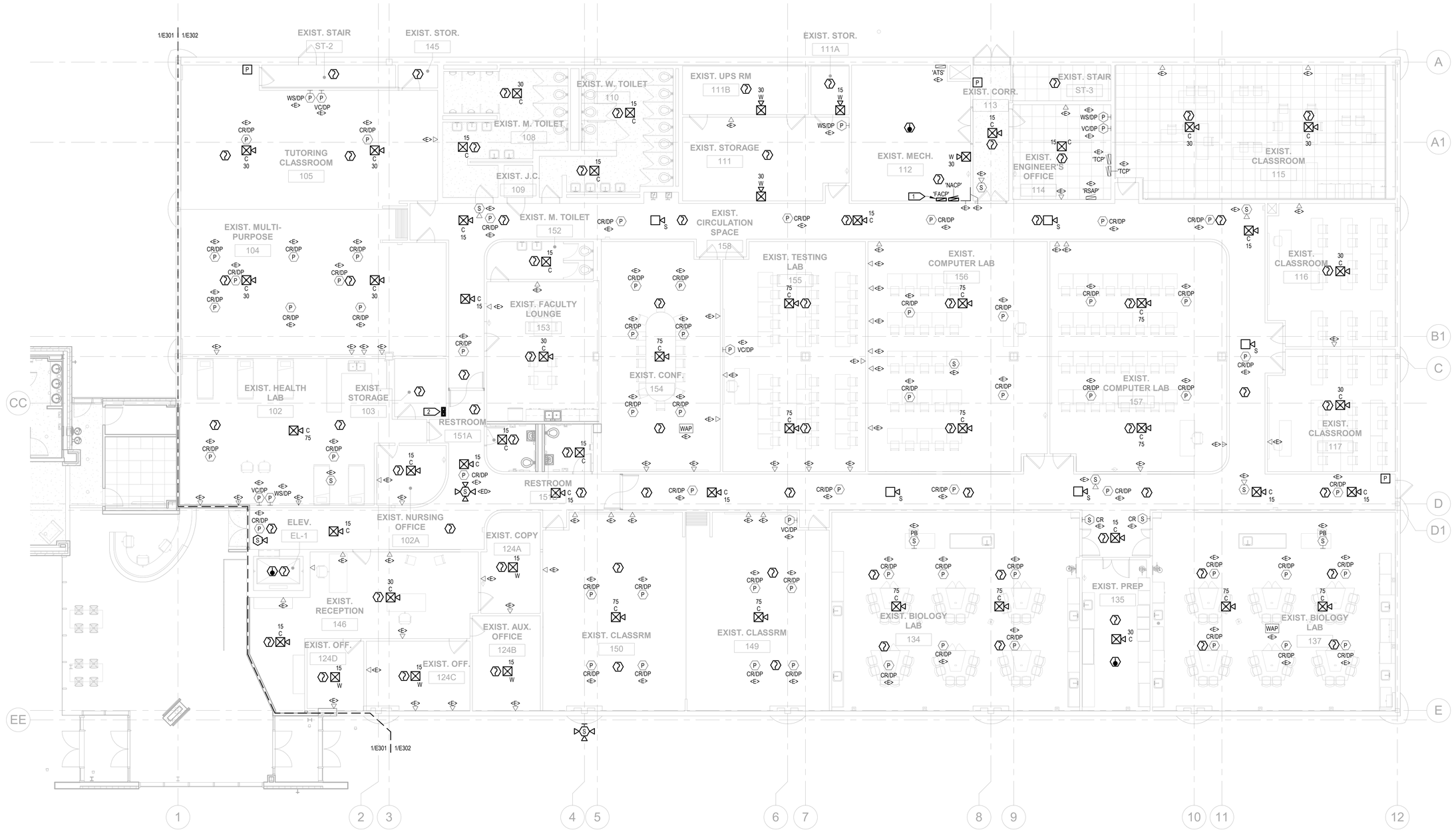
Sheet E301

REFERENCE NOTES:

1. REUSE EXISTING POTS AND/OR CELLULAR LINES FOR REMOTE ACCESS AND MONITORING.
2. PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES THROUGH FLOOR FOR TELECOMMUNICATIONS CABLING ROUTING. REFER TO SHEET E300 FOR SLEEVE LOCATION ON FLOOR BELOW. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

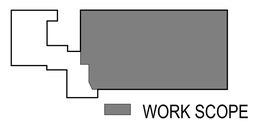
GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF SWITCHES, RECEPTACLES, DATA OUTLETS AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT PLACEMENT OF FIXTURES.
3. CUT THROUGH WALLS AS REQUIRED TO ROUTE CONDUITS, REPAIR AND PATCH TO MATCH EXISTING CONDITIONS AND RESTORE FIRE RATING.
4. LOW VOLTAGE & A/V INSTALLATION LIMITED TO ROUGH-IN ONLY. CABLING, INSTALLATION, AND ACTIVATION BY OWNER.
5. VERIFY ROUGH-IN LOCATION OF ALL SECURITY DEVICES WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
6. REFER TO DETAIL 3/E601 FOR LOW VOLTAGE ROUGH-IN REQUIREMENTS.
7. REFER TO DETAIL 1/E600 FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.
8. REFER TO DETAIL 6/E600 FOR THE FIRE ALARM SYSTEM RISER DIAGRAM.
9. REFER TO DETAIL 5/E600 FOR FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHTS.



1 MAIN LEVEL OVERALL SYSTEMS PLAN - EXISTING FACILITY

1/8" = 1'-0"



PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

4624 WEST MADISON ST.
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Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

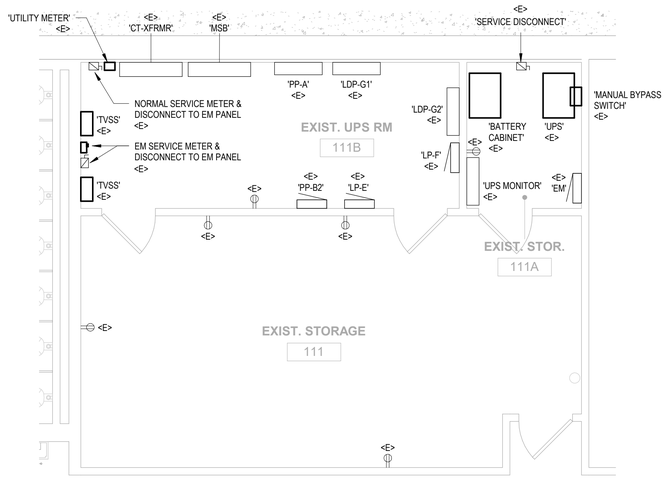
Project No.: BED 022137 / PBC 03720

Title
MAIN LEVEL SYSTEMS PLAN - EXISTING FACILITY

Sheet
E302

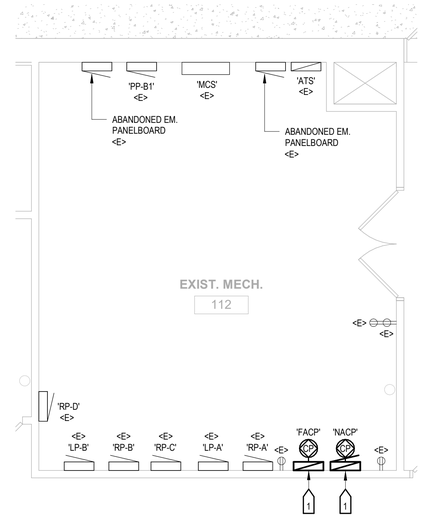
REFERENCE NOTES: <#>

1. MAINTAIN EXISTING 120V CIRCUIT FEEDING EXISTING FIRE ALARM PANEL FOR NEW FIRE ALARM PANEL.



2 POWER PLAN - EXIST. STORAGE 111, EXIST. STORAGE 111A, & UPS ROOM 111B

1/4" = 1'-0"



1 POWER PLAN - EXIST. MECHANICAL 112

1/4" = 1'-0"

1/4"=1'-0" 0" 2" 4" 8"
1/8"=1'-0" 0" 1' 2' 4' 16"
3/32"=1'-0" 0" 1' 2' 8" 16"

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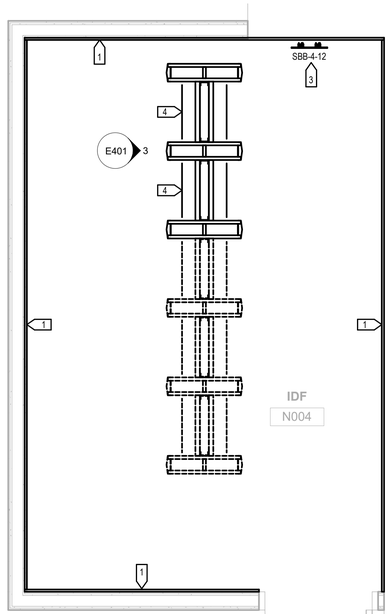
Project No.: BED 022137 / PBC 03720

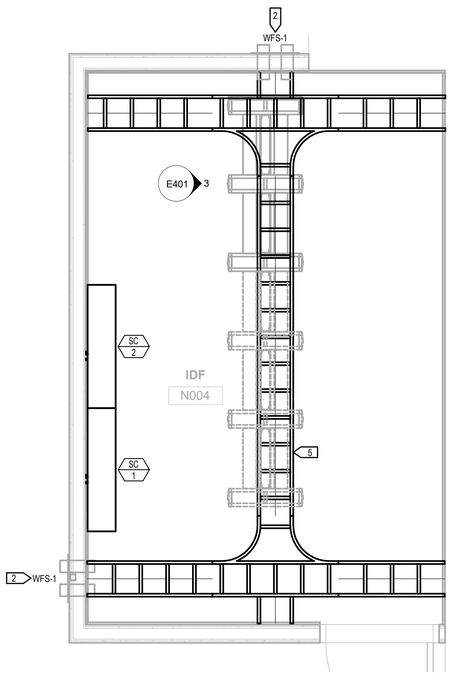
Title
ENLARGED ELECTRICAL PLANS

Sheet
E400



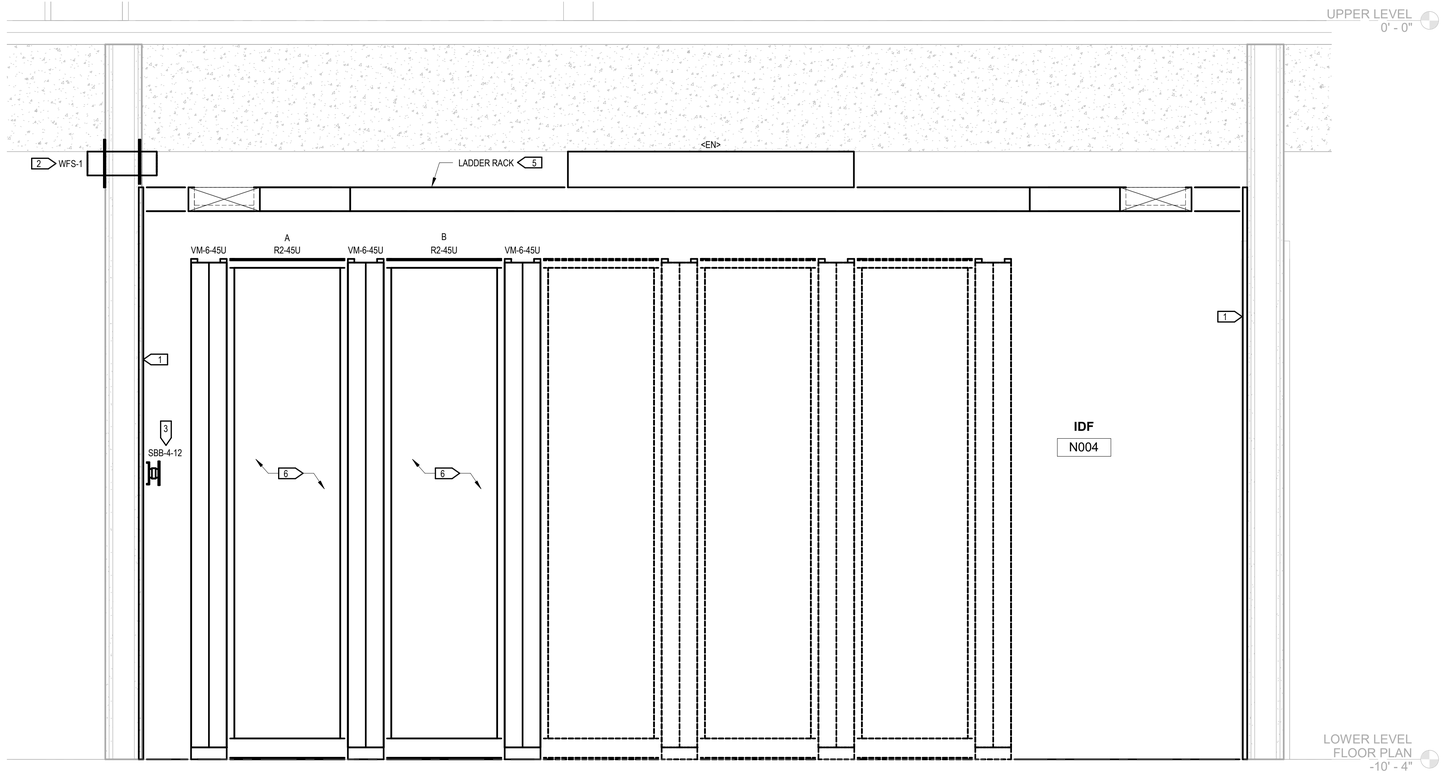
1 ENLARGED IDF N004

1/2" = 1'-0"



2 ENLARGED IDF N004 - CEILING PLAN

1/2" = 1'-0"



3 IDF N004 - RACK ELEVATION

1" = 1'-0"

GENERAL NOTES:

1. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
2. LADDER RACK ROUTING AND SIZING FOR BIDDING PURPOSES ONLY. COORDINATE FINAL ROUTE AND SIZE WITH CCC INFORMATION TECHNOLOGY DEPARTMENT PRIOR TO INSTALLATION.
3. REFER TO DETAIL 1/E601 FOR TELECOM GROUNDING REQUIREMENTS.

REFERENCE NOTES: <#>

1. PROVIDE FIRE-RATED PLYWOOD BACKBOARD IN TELECOMMUNICATION ROOM, AS INDICATED. 4' X 8' SHEETS SHALL BE INSTALLED CONTINUOUSLY WITH 8' LENGTH IN VERTICAL. INSTALL 6" ABOVE FINISHED FLOOR.
2. PROVIDE (2) 4" FIRE-RATED WALL SLEEVES FOR TELECOMMUNICATIONS CABLE ROUTING. SLEEVES SHALL BE LOCATED 8'-0" AFF TO BOTTOM OF SLEEVE.
3. PROVIDE TELECOMMUNICATIONS SECONDARY GROUNDING BUS BAR. BUS SHALL BE 4" HIGH AND 12" WIDE WITH 18 ATTACHMENT POINTS (2 ROWS OF 9 EACH) FOR 2 HOLE GROUNDING LUGS. BUS BAR SHALL BE CONSTRUCTED OF 1/4" THICK SOLID COPPER. REFER TO DETAIL 1/E601 FOR ADDITIONAL INFORMATION.
4. PROVIDE 3" CHANNEL 45U 2-POST TELECOMMUNICATIONS RACK.
5. PROVIDE LADDER RACK IN IDF ROOM. LADDER RACK SHALL BE ROUTED ABOVE TOP OF SERVER RACK AS SHOWN AND SHALL BE MOUNTED AT +7'-8" AFF TO BOTTOM. RACK SHALL BE 12" WIDE.
6. COORDINATE PATCH PANEL LOCATIONS IN DATA RACK WITH CCC INFORMATION TECHNOLOGY DEPARTMENT PRIOR TO INSTALLATION.

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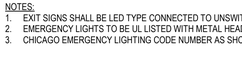
Title
ENLARGED ELECTRICAL PLANS - IDF N004

Sheet
E401



SPECIAL OUTLET SCHEDULE

TAG	DESCRIPTION	LOCATION	VOLTS	PHASE	LOAD (VA)	FEED FROM			OCPD			NEUTRAL	BRANCH WIRING	OPTIONS	NEMA TYPE	REMARKS
						PANEL	CIRCUIT	BRANCH	TYPE	SIZE	POLE					
BS	BUILDING SIGNAGE	EXTERIOR	120	1	1500	RP-F	32	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	1
CP	CONTROL POWER	SFP	120	1	500	SFP	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	--
DP	DOOR POWER	SFP	120	1	500	RP-F	50	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	--
EC	EMERGENCY CALL STATION	SFP	120	1	100	SFP	SFP	EM	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	4
EV	ELECTRIC VEHICLE CHARGING STATION	SITE	208	3	11500	PP-C	SFP	N	CB	40	3	YES	4#4, 1#6G, 1-1/2"C	3,10	--	5
FV	FLUSH VALVE	SFP	120	1	120	RP-F	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	2
GS	GLASS SIGNAGE	LOBBY N101	120	1	300	RP-F	46	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	1
HD	ELECTRIC HAND DRYER	SFP	120	1	700	RP-F	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	--
IC	INDUCTION COOKTOP	FACULTY LOUNGE 153	120	1	1000	SEE	REMARK	N	CB	20	1	YES	SEE REMARK	9	SEE REMARK	6
KH	KITCHEN HOOD	FACULTY LOUNGE 153	120	1	1000	SEE	REMARK	N	CB	20	1	YES	SEE REMARK	9	SEE REMARK	6
MZ	MOTORIZED WINDOW SHADES	SFP	120	1	400	RP-F	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	3
PS	PROJECTOR SCREEN	ASSEMBLY HALL N136	120	1	400	RP-F	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	2,10	5-20R	--
RP	RACK POWER	SFP	208	1	500	RP-G	SFP	N	CB	30	2	NO	2#10, 1#10G, 3/4"C	1,10	L6-30R	4
SF	SENSOR FAUCET	SFP	120	1	120	RP-F	SFP	N	CB	20	1	YES	2#12, 1#12G, 3/4"C	3,10	--	2

BRANCH

ABBR.	DESCRIPTION
CR	CRITICAL CARE
EM	EMERGENCY SYSTEM
EQ	EQUIPMENT SYSTEM
ES	ESSENTIAL SYSTEM
LR	LIFE SAFETY
N	NORMAL

OCPD TYPE

ABBR.	DESCRIPTION
CB	AMPERE RATED CIRCUIT BREAKER
F	AMPERE RATED FUSES
S	AMPERE RATED SWITCHES
SD	SEE ONELINE DIAGRAM

OPTIONS:

1. SINGLE RECEPTACLE
2. DUPLEX RECEPTACLE
3. DIRECT CONNECTION
4. NON FUSIBLE DISCONNECT
5. FUSIBLE DISCONNECT
6. WEATHERPROOF
7. LOCKABLE
8. CONCEALED
9. TOGGLE SWITCH
10. VERIFY WITH MANUFACTURER PRIOR TO INSTALLATION
11. SURFACE MOUNTED
12. FLUSH MOUNTED
13. GFI RECEPTACLE
14. FED FROM UPSTREAM GFI BREAKER

ABBREVIATIONS:
SFP = SEE FLOOR PLAN
SA = SEE ARCHITECTURAL DETAILS

SPECIAL OUTLET SCHEDULE - TYPICAL REMARKS:

1. COORDINATE FINAL ELECTRICAL REQUIREMENTS AND LOCATION WITH SIGNAGE VENDOR PRIOR TO INSTALLATION.
2. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
3. COORDINATE FINAL ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATION WITH WINDOW TREATMENT VENDOR PRIOR TO INSTALLATION.
4. VERIFY FINAL ELECTRICAL REQUIREMENTS WITH CCC SECURITY DEPARTMENT PRIOR TO INSTALLATION.
5. VERIFY FINAL ELECTRICAL REQUIREMENTS WITH OWNER'S EQUIPMENT SELECTION.
6. EQUIPMENT IS EXISTING TO BE RELOCATED. LOCATE AND EXTEND EXISTING CIRCUIT TO NEW EQUIPMENT LOCATION. EQUIPMENT ELECTRICAL INFORMATION IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AND MATCH EXISTING FEEDER SIZE, CONDUIT SIZE, AND CONNECTION TYPE.

FLOOR BOX SCHEDULE

TYPE	MODEL	DESCRIPTION
FB1	FSR FL-700	FLOOR BOX FOR POWER, DATA & A/V
FB2		FLOOR BOX FOR POWER & DATA
FB3		FLOOR BOX FOR POWER

MECHANICAL EQUIPMENT SCHEDULE

TYPE	TAG	EQUIPMENT DESCRIPTION	LOCATION	VOLTAGE	PHASE	HP	FLA	MCA	FEED FROM		OCPD		BRANCH WIRING	DISCONNECT SWITCH		REMARKS
									PANEL	CIRCUIT	SIZE	POLE		FURN BY	INST BY	
LOWER LEVEL FLOOR PLAN																
GWH	LL.1	GAS WATER HEATER	017B - EXIST.MECH	120	1	0	5	0	SEE	REMARK	20 A	1	2#12, 1#12G, 3/4"C	MC	EC	1,5
SC	1	SPACE COOLER	N004 - IDF	208	1	0	0	0	PP-B1	33,35	25 A	2	3#10, 1#10G, 3/4"C	EC	EC	3,6
SC	2	SPACE COOLER	N004 - IDF	208	1	0	0	0	PP-B1	40,42	25 A	2	3#10, 1#10G, 3/4"C	EC	EC	4,6
UPPER LEVEL																
BAS	CP	BAS CONTROL PANEL	N009 - STORAGE	120	1	0	5	6.3	RP-F	24	20 A	1	2#12, 1#12G, 3/4"C	N/A	N/A	6
BC	1	VRF BRANCH CONTROLLER	N136 - ASSEMBLY HALL	208	1	0	0	1	RP-F	26,28	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
BC	2	VRF BRANCH CONTROLLER	N143 - VEST.	208	1	0	0	1	RP-F	29,31	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
BP	1.1	BOOSTER PUMP	N144 - STORAGE	208	3	2.01	7.5	9.4	RP-F	69,71,73	15 A	3	3#12, 1#12G, 3/4"C	EC	EC	5
CU	1	CONDENSING UNIT	ROOF (ASSEMBLY)	208	3	0	0	44	SEE	REMARK	70 A	3	3#1/0, 1#6G, 1-1/2"C	EC	EC	2
CU	2	CONDENSING UNIT	ROOF (ASSEMBLY)	208	3	0	0	44	SEE	REMARK	70 A	3	3#1/0, 1#6G, 1-1/2"C	EC	EC	2
CU	3	CONDENSING UNIT	ROOF (EXISTING FACILITY)	208	1	0	0	19	PP-B1	33,35	25 A	2	3#10, 1#10G, 3/4"C	EC	EC	3
CU	4	CONDENSING UNIT	ROOF (EXISTING FACILITY)	208	1	0	0	19	PP-B1	40,42	25 A	2	3#10, 1#10G, 3/4"C	EC	EC	4
DOAS	1	DOAS	ROOF	208	3	0	38.8	48.5	PP-C	7	70 A	3	3#3, 1#8G, 1-1/4"C	MFR	EC	6
EWH	121	ELECTRIC WALL HEATER	N121 - VESTIBULE	208	1	0	7.2	18.1	RP-F	34,36	20 A	2	2#12, 1#12G, 3/4"C	MFR	MFR	6
EWH	122	ELECTRIC WALL HEATER	N122 - VESTIBULE	208	1	0	7.2	18.1	RP-F	37,39	20 A	2	2#12, 1#12G, 3/4"C	MFR	MFR	6
EWH	144	ELECTRIC WALL HEATER	N144 - STORAGE	208	1	0	9.6	12	RP-F	33,35	20 A	2	2#12, 1#12G, 3/4"C	MFR	MFR	6
FCU	1	FAN COIL UNIT	N141 - CHAIR STOR.	208	1	0	0.8	1.5	RP-F	25,27	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	2	FAN COIL UNIT	N136 - ASSEMBLY HALL	208	1	0	6.2	7.7	RP-F	25,27	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	3	FAN COIL UNIT	N136 - ASSEMBLY HALL	208	1	0	2.6	3.3	RP-F	25,27	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	4	FAN COIL UNIT	N136 - ASSEMBLY HALL	208	1	0	4.7	5.9	RP-F	26,28	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	5	FAN COIL UNIT	N136 - ASSEMBLY HALL	208	1	0	2.6	3.3	RP-F	26,28	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	6	FAN COIL UNIT	N143 - VEST.	208	1	0	1.8	2.3	RP-F	26,28	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	7	FAN COIL UNIT	N101 - LOBBY	208	1	0	6.2	7.7	RP-F	29,31	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	8	FAN COIL UNIT	N101 - LOBBY	208	1	0	2.6	3.3	RP-F	29,31	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FCU	9	FAN COIL UNIT	N101 - LOBBY	208	1	0	1.8	2.3	RP-F	29,31	20 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
FP	1	FIRE PUMP	N144 - STORAGE	208	3	20	59.4	74.3	SEE	RISER	SEE	RISER	SEE RISER	MFR	MFR	7
FPC	1	FIRE PUMP CONTROLLER	N144 - STORAGE	120	1	0.13	0	0	SEE	RISER	SEE	RISER	SEE RISER	MFR	MFR	7
GWH	1.1	GAS WATER HEATER	N144 - STORAGE	120	1	0	5	0	RP-F	40	20 A	1	2#12, 1#12G, 3/4"C	MC	EC	5
JP	1	JOCKEY PUMP	N144 - STORAGE	120	1	0.5	11	13.8	RP-F	60	20 A	1	3#12, 1#12G, 3/4"C	MFR	MFR	7
JPC	1	JOCKEY PUMP CONTROLLER	N144 - STORAGE	120	1	0	0	0	RP-F	60	20 A	1	3#12, 1#12G, 3/4"C	MFR	MFR	7
RP	1.1	HOT WATER RECIRCULATION PUMP	N144 - STORAGE	120	1	0.03	0	0	RP-F	30	15 A	1	2#12, 1#12G, 3/4"C	EC	EC	5
ROOF - ARCHIVED																
EF	TLT	EXHAUST FAN	ROOF	208	1	0.33	4	5	PP-B1	1,3	15 A	2	2#12, 1#12G, 3/4"C	EC	EC	6
RTU	1	ROOFTOP UNIT	ROOF	208	3	0	0	220	SEE	RISER	250 A	3	SEE RISER	EC	EC	6
RTU	2	ROOFTOP UNIT	ROOF	208	3	0	0	220	SEE	RISER	250 A	3	SEE RISER	EC	EC	6
RTU	3	ROOFTOP UNIT	ROOF	208	3	0	0	220	SEE	RISER	250 A	3	SEE RISER	EC	EC	6

MECHANICAL EQUIPMENT SCHEDULE REMARKS:

1. WATER HEATER GWH-LL.1 TO BE POWERED FROM EXISTING CIRCUIT USED FOR PREVIOUS WATER HEATER.
2. CONDENSING UNITS CU-1 AND CU-2 HAVE 2 SECTIONS EACH, POWERED INDEPENDENTLY. REFER TO SHEETS E103 AND E501 FOR CIRCUITING INFORMATION.
3. SPACE COOLER SC-1 SHALL BE FED FROM CONDENSING UNIT CU-3. VERIFY REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
4. SPACE COOLER SC-2 SHALL BE FED FROM CONDENSING UNIT CU-4. VERIFY REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
5. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
6. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
7. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR.

LIGHTING CONTROL SCHEDULE

TYPE	TAG	DESCRIPTION	MOUNT TYPE	MANUFACTURER	MODEL	PROGRAMMING	REMARKS
D	A	SINGLE ZONE DIMMER	WALL	nLIGHT	nPODM-DX-**	AUTO 50% ON / AUTO 100% OFF	1
DS	A	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	B	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	C	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	D	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	E	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	F	DAYLIGHT SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	2
DS	G	DAYLIGHT SENSOR - LOBBY	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	3
DS	H	DAYLIGHT SENSOR - LOBBY	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	3
DS	J	DAYLIGHT SENSOR - LOBBY	CEILING	nLIGHT	nCM-ADCX-DZ-RJB	AUTO DAYLIGHT DIMMING	3
L	A	TOUCH SCREEN DISPLAY - ASSEMBLY HALL	WALL	nLIGHT	FCS-7TSN-***	ON/OFF; DIMMING; WINDOW SHADE UP/DOWN; PROJECTOR SCREEN UP/DOWN	1,2
L	B	TOUCH SCREEN DISPLAY - ASSEMBLY HALL	WALL	nLIGHT	FCS-7TSN-***	ON/OFF; DIMMING; WINDOW SHADE UP/DOWN; PROJECTOR SCREEN UP/DOWN	1,2
L	C	TOUCH SCREEN DISPLAY - LOBBY	WALL	nLIGHT	FCS-7TSN-***	ON/OFF; DIMMING; WINDOW SHADE UP/DOWN	1,3
OS	A	DUAL TECHNOLOGY OCCUPANCY SENSOR	CEILING	nLIGHT	nCM-PDT-10-RJB	MANUAL 100% ON / AUTO 100% OFF	--
OS	B	DUAL TECHNOLOGY OCCUPANCY SENSOR - INTEGRAL ON/OFF SWITCH	WALL	nLIGHT	nWSXA-PDT-LV-**	AUTO 100% ON / AUTO 100% OFF	1
S	K	KEYED SWITCH	WALL	nLIGHT	nPODA-KEY-**	ON / OFF	1
VS	A	DUAL TECHNOLOGY VACANCY SENSOR - INTEGRAL ON/OFF SWITCH	WALL	nLIGHT	nWSXA-PDT-LV-**	MANUAL 100% ON / AUTO 100% OFF	1
VS	B	DUAL TECHNOLOGY VACANCY SENSOR - INTEGRAL DIMMER	WALL	nLIGHT	nWSXA-PDT-LV-DX-**	MANUAL 100% ON / AUTO 100% OFF	1
VS	C	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	D	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	E	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	F	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	G	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	H	DUAL TECHNOLOGY VACANCY SENSOR - ASSEMBLY HALL	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	2
VS	J	DUAL TECHNOLOGY VACANCY SENSOR - LOBBY	CEILING	nLIGHT	nCM-PDT-9-RJB	AUTO 100% ON / AUTO 100% OFF	3

LIGHTING CONTROL SCHEDULE REMARKS:

1. COORDINATE SWITCH COLOR WITH ARCHITECT PRIOR TO ORDERING.
2. REFER TO ASSEMBLY HALL LIGHTING CONTROL MATRIX ON SHEET E503 FOR PROGRAMMING INFORMATION.
3. REFER TO LOBBY LIGHTING CONTROL MATRIX ON SHEET E503 FOR PROGRAMMING INFORMATION.

LIGHTING RELAY CONTROL PANEL SCHEDULE

DESIGNATION	CIRCUIT CONTROLLED	AREA DESCRIPTION	PROGRAMMING	REMARKS
1	RP-F:75R	EXTERIOR UPLIGHTS	PROGRAMMED ON/OFF; PHOTOCELL OVERRIDE	--
2	RP-F:78R	COURTYARD BOLLARD LIGHTS	PROGRAMMED ON/OFF; PHOTOCELL OVERRIDE	--
3	RP-F:19Rp	VESTIBULE LIGHTS	PROGRAMMED ON/OFF; AFTER HOURS OVERRIDE	--
4	--	SPARE	--	--
5	EM:15R	EXTERIOR BUILDING EGRESS LIGHTS	PROGRAMMED ON/OFF; PHOTOCELL OVERRIDE	--
6	EM:13Rp	VESTIBULE EGRESS LIGHTS	PROGRAMMED ON/OFF; AFTER HOURS OVERRIDE	--
7	--	SPARE	--	--
8	--	SPARE	--	--

LIGHTING RELAY CONTROL PANEL SCHEDULE GENERAL REMARKS:

1. PROVIDE RELAY PANEL FOR CONTROL OF LIGHTING IN SPACE. nLIGHT ARP-INTENC08-NLT-8FCR-MVOLT-1VB-HLK-SM-DTC OR APPROVED EQUIVALENT. PROVIDE ALL REQUIRED PARTS, WIRING, AND ACCESSORIES FOR A COMPLETE INSTALLATION.
2. RELAY PANEL SHALL NETWORK WITH NLIGHT LIGHTING CONTROL SYSTEM VIA ECLYPSE SYSTEM CONTROLLERS. REFER TO SHEETS E201 AND E202 FOR CONTROLLER LOCATIONS. REFER TO DETAIL 2/E600 FOR SYSTEM REQUIREMENTS.

LIGHTING RELAY CONTROL PANEL SCHEDULE REMARKS:

1. PROVIDE WITH HIGH VOLTAGE DIVIDER AS INDICATED.
2. PROVIDE WITH UL-924 RELAY.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE			DRIVER BALLAST		INPUT WATTS	VOLTS	MOUNTING		CEILING TYPE	FIXTURE DEPTH	SPECIFIED FIXTURE		FINISH	REMARKS
			DESCRIPTION	K	CRI	TYPE	NO.			TYPE	HEIGHT			MANUFACTURER	MODEL NO.		
#3	EXIT SIGN	LED	IN UNIT	0	-	ST	1	5	120	V	SEE FLOOR PLAN	V	4 1/2"	LITHONIA	EDGC W 1 RW CH3	WH	-
#12	EXIT SIGN	LED	IN UNIT	0	-	ST	1	5	120	S	+12'-0" AFF	V	4 1/2"	LITHONIA	EDGC W 1 RW CH12	WH	-
#21	EXIT SIGN	LED	IN UNIT	0	-	ST	1	5	120	S	+12'-0" AFF	V	4 1/2"	LITHONIA	EDGC W 2 RW CH21	WH	-
A	4' LINEAR PENDANT	LED	IN UNIT	3500	90	D1	1	22	120	P	+12'-0" AFF	ES	3"	AXIS	SCD-500-90-35-FL-4-**-UNV-DP-1-CA48	A/O	1
B	12' LINEAR PENDANT	LED	IN UNIT	3500	90	D1	1	38	120	P	+15'-0" AFF	V	4 1/2"	AXIS	TB3DLED-500-90-35-SO-12-**-UNV-DP-1-CA36	A/O	1
C	PENDANT STRIP LIGHT	LED	IN UNIT	3500	90	D10	1	32	120	P	+9'-0" AFF	ES	3 1/2"	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-35K-90CRI-WH	WH	
C1	PENDANT STRIP LIGHT	LED	IN UNIT	3500	90	D10	1	47	120	P	+9'-0" AFF	ES	3 1/2"	LITHONIA	CLX-L48-7000LM-SEF-RDL-MVOLT-GZ10-35K-90CRI-WH	WH	-
D	4" DOWNLIGHT	LED	IN UNIT	3500	85	D10	1	14	120	R	-	V	6 1/2"	GOTHAM	EVO4-35/15-AR-LSS-MD-MVOLT-GZ10	SS	-
D1	4" DOWNLIGHT	LED	IN UNIT	3500	85	D10	1	14	120	R	-	V	6 1/2"	GOTHAM	EVO4-35/05-AR-LSS-MD-MVOLT-GZ10	SS	-
DD	COMPACT FLOODLIGHT	LED	IN UNIT	4000	85	0-10V	1	14	120	AFG	ON GRADE	N	8"	BEGA	77681-70756-***	A/O	1
E	6" ROUND DOWNLIGHT	LED	IN UNIT	3500	85	D10	1	14	120	R	-	V	7 1/2"	GOTHAM	EVO6-35/15-AR-LSS-MD-MVOLT-GZ10	SS	-
EBU	EMERGENCY BATTERY UNIT	LED	IN UNIT	0	-	ST	1	2	120	W	+7'-6" AFF	N	3"	LITHONIA	ELM2L-UVOLT-SDRT	WH	-
G	PENDANT DOWNLIGHT	LED	IN UNIT	3500	90+	D01	1	31	120	P	+12'-0" AFF	V	11"	3G	3G-PDL45RF-11H-15-H90-35K-40d-UNV-D01-**-**-***-**-C60-SF	A/O	1
G1	PENDANT DOWNLIGHT	LED	IN UNIT	3500	90+	D01	1	31	120	P	+12'-0" AFF	V	11"	3G	3G-PDL45RF-11H-15-H90-35K-40d-UNV-D01-**-**-***-**-C60-SF	A/O	1,3
G2	PENDANT DOWNLIGHT	LED	IN UNIT	3500	90+	D01	1	31	120	P	+9'-0" AFF	V	11"	3G	3G-PDL45RF-11H-15-H90-35K-40d-UNV-D01-**-**-***-**-C60-SF	A/O	1
H3	3' LINEAR COVER LIGHT	LED	IN UNIT	3500	90+	D1	1	18	120	S	+9'-0" AFF	DW	1 1/2"	AXIS	CC-L-I-CL(3)-500-90-35-W-UNV-DP-1-C	WH	6
H4	4' LINEAR COVER LIGHT	LED	IN UNIT	3500	90+	D1	1	24	120	S	+9'-0" AFF	DW	1 1/2"	AXIS	CC-L-I-CL(4)-500-90-35-W-UNV-DP-1-C	WH	6
H7	7' LINEAR COVER LIGHT	LED	IN UNIT	3500	80	D1	1	42	120	S	+9'-0" AFF	DW	1 1/2"	AXIS	CC-L-I-CL(7)-500-90-35-W-UNV-DP-1-C	WH	6
I	RECESSED 2'X4'	LED	IN UNIT	3500	90	D10	1	31	120	R	-	LG	3"	LITHONIA	2BLT4-40L-ADP-EZ1-LP935	SF	-
J	RECESSED 2'X2'	LED	IN UNIT	3500	90	D10	1	27	120	R	-	LG	2 1/2"	LITHONIA	2BLT2-33L-ADP-EZ1-LP935	SF	-
J1	RECESSED 2'X2'	LED	IN UNIT	3500	90	D10	1	27	120	R	-	LG	2 1/2"	LITHONIA	2BLT2-48L-ADP-EZ1-LP935	SF	-
K1	EXTERIOR WALL LIGHT	LED	IN UNIT	4000	80+	ST	1	15	120	W	+8'-0"	N	5 1/2"	LITHONIA	WDGE1-P2-40K-80CRI-VW-MVOLT-**	A/O	1
K2	EXTERIOR WALL LIGHT	LED	IN UNIT	4000	80+	ST	1	23	120	W	+15'-6"	N	7"	LITHONIA	WDGE2-LED-P3-40K-80CRI-VF-MVOLT-**	A/O	1
L	BOLLARD	LED	IN UNIT	4000	80+	ST	1	25	120	AFG	ON GRADE	N	0"	LEGRAND	XCSLF-3G-R-U-R1-**	A/O	1,4
M	BLADE LIGHT	LED	IN UNIT	3500	80+	ST	1	11	120	W	SEE REMARK	N	0"	LUMOS	RM93-18-40-3500-REC-***-ENGRV	A/O	1,5
N1	RECESSED LINEAR - ASYMMETRIC	LED	IN UNIT	3500	90+	D1	1	23	120	R	-	DW	1 1/2"	AXIS	BMRLED-300-90-35-ASO-8-***-120-DP-1-DF	A/O	1,2
N2	RECESSED LINEAR - 9'-6"	LED	IN UNIT	3500	90+	D1	1	23	120	R	-	DW	1 1/2"	AXIS	BMRLED-300-90-35-FL-9.5-***-120-DP-1-DF	A/O	1,2
N3	RECESSED LINEAR - 8'-0"	LED	IN UNIT	3500	90+	D1	1	19	120	R	-	DW	1 1/2"	AXIS	BMRLED-300-90-35-FL-8-***-120-DP-1-DF	A/O	1,2

FIXTURE TYPE

ABBR.	DESCRIPTION
F	FLOURESCENT
H	HID
HAL	HALOGEN
I	INCANDESCENT
LED	LIGHT EMITTING DIODE

DRIVER/BALLAST TYPE

ABBR.	DESCRIPTION
0-10V	0-10 VOLT DIMMING
D1	DIMMING 1-100%
D01	DIMMING 0.1-100%
D5	DIMMING 5-100%
D10	DIMMING 10-100%
DST	STEP DIMMING 50/100%
ST	STANDARD

MOUNTING TYPE

ABBR.	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
P	PENDANT
R	RECESS
S	SURFACE
V	VARIES
W	WALL MOUNTED

CEILING TYPE

ABBR.	DESCRIPTION
DW	DRYWALL
ES	EXPOSED STRUCTURE
LG	LAY-IN GRID
N	NONE
V	VARIES

FINISHES

ABBR.	DESCRIPTION
A/O	COLOR AS SELECTED BY ARCHITECT/OWNER
BA	BRUSH ALUMINUM
BK	BLACK
BZ	BRONZE
CF	CUSTOM FINISH
SF	STANDARD FINISH
SN	SATIN NICKLE
SS	SEMI-SPECULAR
WH	WHITE

LIGHT FIXTURE SCHEDULE REMARKS:

1. VERIFY FIXTURE FINISH WITH ARCHITECT PRIOR TO ORDERING.
2. FIXTURE SHALL BE INSTALLED AS A CONTINUOUS COVE. REFER TO DETAIL 7/A951 FOR EXACT FIXTURE LOCATIONS AND DIMENSIONS.
3. FIXTURES TO BE PRICED SEPARATELY AS AN ADD ALTERNATE.
4. REFER TO DETAIL 2/E601 FOR BOLLARD BASE REQUIREMENTS.
5. FIXTURES TO BE ENGRAVED WITH CUSTOM LETTERING. COORDINATE LETTERING WITH ARCHITECT PRIOR TO ORDERING. REFER TO ELEVATION 7/A601 FOR FIXTURE QUANTITIES AND MOUNTING LOCATIONS. REFER TO DETAILS 2/A716 AND 3/A716 FOR ADDITIONAL INFORMATION.
6. FIXTURE SHALL BE INSTALLED AS A CONTINUOUS COVE. REFER TO LIGHTING PLANS FOR OVERALL FIXTURE LENGTHS.

FIRE ALARM ADDRESSABLE INPUT MODULE SCHEDULE

TAG	INTERFACED WITH	ACTIVATION DESCRIPTION
A	DOOR HARDWARE	RELEASE DOOR CONTROLS AND POWER UPON BUILDING FIRE ALARM
B	BAS CONTROL PANEL	TURN OFF HVAC EQUIPMENT AND SET DAMPER POSITION PER PROGRAMMING UPON BUILDING FIRE ALARM

FIRE ALARM ADDRESSABLE OUTPUT MODULE

TAG	DEVICE MONITORED	FIRE ALARM SYSTEM RESPONSE
A	FIRE PROTECTION SYSTEM - FLOW SWITCH	PROVIDE STATUS TO FIRE ALARM PANEL
B	FIRE PROTECTION SYSTEM - TAMPER SWITCH	PROVIDE STATUS TO FIRE ALARM PANEL

CHICAGO EXIT SIGN LEGEND

NOTES:

1. EXIT SIGNS SHALL BE LED TYPE CONNECTED TO UNSWITCHED CIRCUITS.
2. EMERGENCY LIGHTS TO BE UL LISTED WITH METAL HEADS.
3. CHICAGO EMERGENCY LIGHTING CODE NUMBER AS SHOWN ON PLAN.

CHICAGO EXIT SIGN SYMBOL LIST:

SINGLE FACE		DOUBLE FACE	
#2	STAIRS	#17	STAIRS
#3	EXIT	#18	EXIT
#5	STAIRS	#20	STAIRS
#6	EXIT	#21	EXIT
#8	STAIRS	#23	STAIRS
#9	EXIT	#24	EXIT
#11	STAIRS		
#12	EXIT		

PUBLIC BUILDING COMMISSION
CITY COLLEGES of CHICAGO

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Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL
SCHEDULES

Sheet E500

BIM 360://Malcom X West Side Learning Center Addition and Renovation/022131_MXC WSLC COMM RM AND EXISTING RENOVATION_MEP21.rvt
3/12/2024 11:02:23 AM

<E> Branch Panel: PP-B1

Location: EXIST. MECH. 112 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kA
Supply From: PP-A | **Phases:** 3 | **Type:** MLO
Mounting: Surface | **Wires:** 4 | **Bus Amps:** 225 A
Enclosure: Type 1

CB Info		CKT	Circuit Description	A...	Trip	Poles	A		B		C		Poles	Trip	A...	Circuit Description	CKT	CB Info	
N		1	HVAC - EF-TLT	6.92 A	15 A	2	720 VA	0 VA									2		
		3							720 VA	0 VA			3	50 A	--	EXISTING LOAD	4		
N		5	SPACE	--	--	1					--	0 VA					6		
		7					0 VA	0 VA									8		
		9	EXISTING LOAD	--	60 A	3			0 VA	0 VA			3	50 A	--	EXISTING LOAD	10		
		11									0 VA	0 VA					12		
		13					0 VA	0 VA									14		
		15	EXISTING LOAD	--	60 A	3			0 VA	0 VA			3	50 A	--	EXISTING LOAD	16		
		17									0 VA	0 VA					18		
		19					0 VA	0 VA					1	15 A	--	EXISTING LOAD	20		
		21	EXISTING LOAD	--	30 A	3			0 VA	0 VA			1	20 A	--	EXISTING LOAD	22		
		23									0 VA	0 VA	1	20 A	--	EXISTING LOAD	24		
		25	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1	20 A	--	EXISTING LOAD	26		
		27	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1	20 A	--	EXISTING LOAD	28		
		29	EXISTING LOAD	--	20 A	1					0 VA	0 VA	1	20 A	--	EXISTING LOAD	30		
		31	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1	20 A	--	EXISTING LOAD	32		
N		33	HVAC - SC-1 AND CU-3	15.2 A	25 A	2			1581 VA	0 VA			1	20 A	--	EXISTING LOAD	34		
		35									1581 VA	0 VA	1	20 A	--	EXISTING LOAD	36		
		37					0 VA	900 VA					1	20 A	7.5 A	POWER - ROOF - WP	38		N
		39	EXISTING LOAD	--	30 A	3			0 VA	1581 VA			2	25 A	15.2 A	HVAC - SC-2 AND CU-4	40		N
		41									0 VA	1581 VA					42		
					Total Load:		1620 VA		3882 VA		3162 VA								
					Total Amps:		14 A		34 A		28 A								

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7764 VA	110.18%	8555 VA		
Power	900 VA	100.00%	900 VA	Total Conn. Load:	8664 VA
				Total Est. Demand:	9455 VA
				Total Conn.:	24 A
				Total Est. Demand:	26 A

Notes:
1. AIC RATINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AIC RATINGS REQUIRED.

<E> Switchboard: MSB

Location: EXIST. UPS RM 111B | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65 kA
Supply From: UTILITY SERVICE | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 2000 A
Enclosure: Type 1

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	RTU PANEL	3	400 A	400 A	0 VA	EXISTING
2	LDP-G2	3	400 A	400 A	0 VA	EXISTING
3	LDP-G1	3	600 A	400 A	0 VA	NOTE 1
4	PP-A	3	600 A	400 A	8664 VA	NOTE 1
5	SPARE	3	200 A	200 A	0 VA	NOTE 2
				Total Conn. Load:	8664 VA	
				Total Amps:	24 A	

LEGEND:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7764 VA	110.18%	8555 VA		
Power	900 VA	100.00%	900 VA	Total Conn. Load:	8664 VA
				Total Est. Demand:	9455 VA
				Total Conn.:	24 A
				Total Est. Demand:	26 A

Notes:
1. EXISTING 400A BREAKER TO BE REPLACED WITH NEWER 600A POWERPACT MOLDED CASE LG MODEL.
2. NEW TEMPORARY 200A POWERPACT MOLDED CASE BREAKER TO BE INSTALLED IN EXISTING SPACE FOLLOWING REPLACEMENT OF (2) EXISTING 400A BREAKERS.

<E> Switchboard: PP-A

Location: EXIST. UPS RM 111B | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65 kA
Supply From: MSB | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ELEVATOR	3	100 A	100 A	0 VA	EXISTING
2	PREPARED SPACE	3	--	--	--	--
3	PP-B2	3	200 A	200 A	0 VA	EXISTING
4	PREPARED SPACE	3	--	--	--	--
5	MSC	3	200 A	200 A	0 VA	EXISTING
6	PP-B	3	200 A	200 A	8664 VA	EXISTING
				Total Conn. Load:	8664 VA	
				Total Amps:	24 A	

LEGEND:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7764 VA	110.18%	8555 VA		
Power	900 VA	100.00%	900 VA	Total Conn. Load:	8664 VA
				Total Est. Demand:	9455 VA
				Total Conn.:	24 A
				Total Est. Demand:	26 A

Notes:
1. AIC RATINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AIC RATINGS REQUIRED.

<E> Branch Panel: EM

Location: EXIST. STOR. 111A | **Volts:** 120/240 Single | **A.I.C. Rating:** 10 kA
Supply From: MANUAL BYPASS SWITCH | **Phases:** 1 | **Type:** MLO
Mounting: Surface | **Wires:** 3 | **Bus Amps:** 125 A
Enclosure: Type 1

CB Info		CKT	Circuit Description	Amps	Trip	Poles	A		B		Poles	Trip	Amps	Circuit Description	CKT	CB Info	
		EM-1	EXISTING LOAD	0.83 A	20 A	1	100 VA	0 VA			1	20 A	--	EXISTING LOAD	EM-2		
		EM-3	EXISTING LOAD	--	20 A	1			0 VA	43 VA	1	20 A	0.36 A	EXISTING LOAD	EM-4		
		EM-5	EXISTING LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING LOAD	EM-6		
		EM-7	EXISTING LOAD	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING LOAD	EM-8		
		EM-9	EXISTING LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING LOAD	EM-10		
		EM-11	EXISTING LOAD	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING LOAD	EM-12		
N		EM-13	LTG - RMS N101,N121-22,N143 - EGRESS	2.16 A	20 A	1	259 VA	327 VA			1	20 A	2.72 A	LTG - RMS N136,N139-40 - EGRESS	EM-14		N
N		EM-15	LTG - ASSEMBLY HALL - EXTERIOR	1.94 A	20 A	1			233 VA	45 VA	1	20 A	0.38 A	LTG - ASSEMBLY HALL - EXIT SIGNS	EM-16		N
		EM-17	EXISTING LOAD	--	20 A	1	0 VA	--			1	--	--	SPACE	EM-18		
					Total Load:		682 VA		322 VA								
					Total Amps:		6 A		3 A								

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	38 VA	100.00%	38 VA		
Power	100 VA	100.00%	100 VA	Total Conn. Load:	1001 VA
Lighting	863 VA	100.00%	863 VA	Total Est. Demand:	1001 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes:
1. AIC RATINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AIC RATINGS REQUIRED.

<E> Branch Panel: LP-E

Location: EXIST. UPS RM 111B | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kA
Supply From: LDP-G1 | **Phases:** 3 | **Type:** MLO
Mounting: Surface | **Wires:** 4 | **Bus Amps:** 125 A
Enclosure: Type 1

CB Info		CKT	Circuit Description	A...	Trip	Poles	A		B		C		Poles	Trip	A...	Circuit Description	CKT	CB Info	
N		1	SPACE	--	--	1	--	0 VA					1	20 A	--	EXISTING LOAD	2		
N		3	SPACE	--	--	1			--	0 VA			1	20 A	--	EXISTING LOAD	4		
		5	SPACE	--	--	1					--	0 VA	1	20 A	--	EXISTING LOAD	6		
		7	EXISTING LOAD	--	40 A	2	0 VA	0 VA					1	20 A	--	EXISTING LOAD	8		
		9							0 VA	0 VA			1	20 A	--	EXISTING LOAD	10		
		11	EXISTING LOAD	--	20 A	1					0 VA	0 VA	1	20 A	--	EXISTING LOAD	12		
		13	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1	20 A	--	EXISTING LOAD	14		
		15	EXISTING LOAD	--	20 A	1			0 VA	--			1	--	--	SPACE	16		
		17	SPACE	--	--	1					--	--	1	--	--	SPACE	18		
		19	SPACE	--	--	1	--	--					1	--	--	SPACE	20		
		21	SPACE	--	--	1			--	--			1	--	--	SPACE	22		
		23	SPACE	--	--	1					--	--	1	--	--	SPACE	24		
		25					0 VA	--					1	--	--	SPACE	26		
E		27	TVSS	--	30 A	3			0 VA	--			1	--	--	SPACE	28		
		29									0 VA	--	1	--	--	SPACE	30		
					Total Load:		0 VA		0 VA		0 VA								
					Total Amps:		0 A		0 A		0 A								

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
1. AIC RATINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AIC RATINGS REQUIRED.

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Issuance

Mark	Description	Date
	75%CD Draft for CM Procurement - Not for Construction	03/13/2024

PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL SCHEDULES

Sheet E501

Branch Panel: RP-G

Location: IDF N004
Supply From: PP-C
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10 kA
Mains Type: MLO
Bus Amps: 100 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LTG - IDF N004	0 A	20 A	1	0 VA	360 VA					1	20 A	3 A	POWER - IDF N004	2	
	3	POWER - IDF N004	3 A	20 A	1			360 VA	180 VA			1	20 A	1.5 A	POWER - IDF N004 - DD	4	
	5	POWER - IDF N004 - RP	2.4 A	20 A	2					250 VA	250 VA	2	20 A	2.4 A	POWER - IDF N004 - RP	6	
	7					250 VA	250 VA									8	
	9	POWER - IDF N004 - DD	1.5 A	20 A	1			180 VA	0 VA			1	20 A	--	SPARE	10	
	11	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	12	
	13	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	14	
	15	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	16	
	17	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	18	
	19	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	20	
	21	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	22	
	23	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	24	
	25	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	26	
	27	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	28	
	29	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	30	
	31	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	32	
	33	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	34	
	35	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	36	
	37	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	38	
	39	SPACE	--	--	1			--	--			1	--	--	SPACE	40	
	41	SPACE	--	--	1					--	--	1	--	--	SPACE	42	
					Total Load:	860 VA		720 VA		500 VA							
					Total Amps:	7 A		6 A		4 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Power	2080 VA	100.00%	2080 VA	**Total Conn. Load:**	2080 VA
				Total Est. Demand:	2080 VA
				Total Conn.:	6 A
				Total Est. Demand:	6 A

Notes:
1. AIC RATINGS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PERFORM OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY PRIOR TO ORDERING EQUIPMENT. REFER TO SPECIFICATIONS 26 05 73.

Branch Panel: RP-F

Location: ELEC N101B
Supply From: PP-C
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10 kA
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	POWER - CATERING N142	3 A	20 A	1	360 VA	360 VA					1	20 A	3 A	POWER - CATERING N142	2	
	3	POWER - RMS N142,N144, N010 AND WP	6 A	20 A	1			720 VA	900 VA			1	20 A	7.5 A	POWER - RMS N136, N141,N009 AND WP	4	
	5	POWER - ASSEMBLY HALL N136 - FB	9 A	20 A	1					1080 VA	1080 VA	1	20 A	9 A	POWER - ASSEMBLY HALL N136 - FB	6	
	7	POWER - ASSEMBLY HALL N136 - FB	9 A	20 A	1	1080 VA	1080 VA					1	20 A	9 A	POWER - ASSEMBLY HALL N136 - FB	8	
	9	POWER - RM N136 - FB,PS,PROJ	9.33...	20 A	1			1120 VA	760 VA			1	20 A	6.33...	POWER - ASSEMBLY HALL N136 - FB,PS	10	
	11	POWER - ASSEMBLY HALL N136 - MZ	10 A	20 A	1					1200 VA	900 VA	1	20 A	7.5 A	POWER - M.TOILET N140 - SF,WP	12	
	13	POWER - W.TOILET N139 - SF,FV	7.5 A	20 A	1	900 VA	540 VA					1	20 A	4.5 A	POWER - LOBBY N101	14	
	15	POWER - VEST. N143 - EWC	7.5 A	20 A	1			900 VA	180 VA			1	20 A	1.5 A	POWER - SECURITY N101A - DD	16	
	17	POWER - LOBBY N101 - FB	6 A	20 A	1					720 VA	360 VA	1	20 A	3 A	POWER - SECURITY N101A - DD	18	
	19	LIGHTING - RMS N101-N101B,N121,N122	7.81...	20 A	1	938 VA	180 VA					1	20 A	1.5 A	POWER - SECURITY N101A - DD	20	
	21	LIGHTING - ROOMS N139,40,43,47	3.74...	20 A	1			449 VA	318 VA			1	20 A	2.65...	LIGHTING - ROOMS N141,42,44	22	
	23	LIGHTING - ASSEMBLY HALL N136	3.76...	20 A	1					451 VA	600 VA	1	20 A	5 A	POWER - ELEC N101B - CP	24	
	25	FCU 1-3 - ASSEMBLY HALL N136	10.1...	20 A	2	1052 VA	1201 VA					2	20 A	11.5...	FCU 4, 5, 6 & BC 1 - RMS N136,N143	26	
	27							1052 VA	1201 VA							28	
	29	FCU 7, 8 , 9 & BC 2 - RMS N101,N143	11.1...	20 A	2					1159 VA	1254 VA	1	15 A	10.4...	RP - STORAGE N144	30	
	31					1159 VA	1500 VA					1	20 A	12.5...	POWER - EXTERIOR - BS	32	
	33	EWH - STORAGE N144	9.62...	20 A	2			1000 VA	750 VA			2	20 A	7.21...	EWH - VESTIBULE N121	34	
	35									1000 VA	750 VA					36	
	37	EWH - VESTIBULE N122	7.21...	20 A	2	750 VA	180 VA					1	20 A	1.5 A	POWER - CATERING N142 - UCR	38	
	39							750 VA	600 VA			1	20 A	5 A	GWH - STORAGE N144	40	
	41	LIGHTING - ASSEMBLY HALL N136	6.89...	20 A	1					826 VA	700 VA	1	20 A	5.83...	POWER - M.TOILET N140 - HD	42	
	43	POWER - ROOF - WP	3 A	20 A	1	360 VA	700 VA					1	20 A	5.83...	POWER - W.TOILET - HD	44	
	45	POWER - LOBBY N101 - BL	3.34...	20 A	1			401 VA	480 VA			1	20 A	4 A	POWER - LOBBY N101 - GS	46	
	47	POWER - LOBBY N101 - TV	3 A	20 A	1					360 VA	180 VA	1	20 A	1.5 A	POWER - ELEC N101B	48	
	49	POWER - ROOMS N147 & N101 - MZ	10 A	20 A	1	1200 VA	2000 VA					1	20 A	16.6...	POWER - VESTIBULE N121,122 - DP	50	
	51	POWER - ELEC N101B - NACP	4.17...	20 A	1			500 VA	180 VA			1	20 A	1.5 A	POWER - AV/IT CL/STORAGE N149	52	
	53	POWER - ELEC 101B - LCP	4.17...	20 A	1					500 VA	180 VA	1	20 A	1.5 A	POWER - AV/IT CL/STORAGE N149	54	
	55	SPARE	--	20 A	1	0 VA	180 VA					1	20 A	1.5 A	POWER - ASSEMBLY HALL N136 - PROJ	56	
	57	SPARE	--	20 A	1			0 VA	180 VA			1	20 A	1.5 A	POWER - ASSEMBLY HALL N136 - PROJ	58	
	59	SPARE	--	20 A	1					0 VA	1320 VA	1	20 A	11 A	POWER - STORAGE N144 - MOTOR	60	
	61	POWER - COURTYARD RCPTS	7.5 A	20 A	1	900 VA	75 VA					1	20 A	0.63...	LIGHTING - COURTYARD BOLLARDS	62	
	63	LTG - FRONT EXTERIOR UPLTS	0.58...	20 A	1			70 VA	700 VA			1	20 A	5.83...	POWER - M.TOILET N140 - HD	64	
	65	POWER - SECURITY N101A - SACP	4.17...	20 A	1					500 VA	700 VA	1	20 A	5.83...	POWER - W.TOILET N139 - HD	66	
	67	POWER - EXTERIOR RCPTS	4.5 A	20 A	1	540 VA	0 VA					1	20 A	--	SPARE	68	
	69							900 VA	0 VA			1	20 A	--	SPARE	70	
	71	BP 1.1 - STORAGE N144	7.49 A	15 A	3					900 VA	0 VA	1	20 A	--	SPARE	72	
	73					900 VA	0 VA					1	20 A	--	SPARE	74	
	75	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	76	
	77	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	78	
	79	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	80	
	81	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	82	
	83	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	84	
					Total Load:	18132 VA		14102 VA		16471 VA							
					Total Amps:	154 A		118 A		140 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	15123 VA	104.46%	15798 VA		
Motor	1320 VA	100.00%	1320 VA	**Total Conn. Load:**	48691 VA
Power	27320 VA	68.30%	18660 VA	**Total Est. Demand:**	40709 VA
Lighting	3327 VA	100.00%	3327 VA	**Total Conn.:**	135 A
				Total Est. Demand:	113 A

Notes:
1. AIC RATINGS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PERFORM OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY PRIOR TO ORDERING EQUIPMENT. REFER TO SPECIFICATIONS 26 05 73.

Distribution Panel: PP-C

Location: ELEC N101B
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10 kA
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	RP-F	3	225 A	225 A	48691 VA	--
2	RP-G	3	100 A	100 A	2080 VA	--
3	CU-1 SECTION 1 - ROOF	3	100 A	70 A	7322 VA	--
4	CU-1 SECTION 2 - ROOF	3	100 A	70 A	7322 VA	--
5	CU-2 SECTION 1 - ROOF	3	100 A	70 A	7322 VA	--
6	CU-2 SECTION 2 - ROOF	3	100 A	70 A	7322 VA	--
7	DOAS-1 - ROOF	3	100 A	70 A	13978 VA	--
8	RP-E	3	200 A	200 A	31133 VA	NOTE 2
9	EV CHARGER - SITE	3	100 A	40 A	11500 VA	--
10	EV CHARGER - SITE	3	100 A	40 A	11500 VA	--
11	EV CHARGER - SITE	3	100 A	40 A	11500 VA	--
12	SPACE	3	--	--	--	--
13	SPACE	3	--	--	--	--
14	SPACE	3	--	--	--	--
15	SPACE	3	--	--	--	--
16	SPACE	3	--	--	--	--
				Total Conn. Load:	159662 VA	
				Total Amps:	443 A	

LEGEND:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	65887 VA	105.30%	69382 VA		
Lighting - General	1301 VA	100.00%	1301 VA	**Total Conn. Load:**	159662 VA
Motor	1320 VA	100.00%	1320 VA	**Total Est. Demand:**	125564 VA
Other	1107 VA	100.00%	1107 VA	**Total Conn.:**	443 A
Power	85188 VA	55.87%	47594 VA	**Total Est. Demand:**	349 A
Lighting	3327 VA	100.00%	3327 VA		
Plumbing Equipment	1771 VA	100.00%	1771 VA		

Notes:
1. AIC RATINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY AIC RATINGS REQUIRED.
2. PROVIDE INTEGRAL OWNER METER PER SPECIFICATION 26 27 13.

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PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
ELECTRICAL SCHEDULES

Sheet E502

LIGHTING CONTROL MATRIX - LOBBY AND LOUNGE

CONTROL		CONTROL ZONE				
TYPE	TAG	CIRCUIT	SWITCH LEG	DESCRIPTION	FUNCTION	REMARK
L	C	RP-F:19, EM:13	f	LOBBY - PENDANT DOWNLIGHTS	ON / OFF, DMMING	--
L	C	RP-F:19	g	LOBBY DESK - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
L	C	RP-F:19, EM:13	h	LOBBY - LINEAR PENDANTS	ON / OFF, DIMMING	--
L	C	RP-F:21, EM:13	j	LOUNGE - DOWNLIGHTS	ON / OFF, DIMMING	--
L	C	RP-F:21	k	LOUNGE - RECESSED LINEARS	ON / OFF, DIMMING	--
L	C	RP-F:45	m	LOBBY - STAIR MURAL WALL LIGHTS	ON / OFF	--
L	C	RP-F:49	--	LOBBY - WINDOW SHADES	UP / DOWN	--
L	C	RP-F:49	--	LOUNGE - WINDOW SHADES	UP / DOWN	--
DS	G	RP-F:19, EM:13	z	DAYLIGHT ZONE - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
DS	H	RP-F:19, EM:13	y	DAYLIGHT ZONE - PRIMARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
DS	J	RP-F:19, EM:13	x	DAYLIGHT ZONE - SECONDARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
VS	J	--	f,g,h,j,k	LOBBY AND LOUNGE	MANUAL ON / AUTOMATIC OFF	1

GENERAL REMARKS:

1. PROVIDE ALL REQUIRED EQUIPMENT, PARTS, AND ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
2. COORDINATE PROGRAMMING WITH OWNER AND CONFIRM WITH ENGINEER.

REMARKS:

1. SENSORS SHALL BE INACTIVE DURING NORMAL BUSINESS HOURS. COORDINATE TIME SCHEDULE WITH OWNER.

LIGHTING CONTROL MATRIX - ASSEMBLY HALL

	CONTROL		CONTROL ZONE				
ROOM CONFIGURATION	TYPE	TAG	CIRCUIT	SWITCH LEG	DESCRIPTION	FUNCTION	REMARK
PARTITION A OPEN PARTITION B OPEN	L	A,B	RP-F:23, EM:14	a,c	ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DMMING	--
	L	A,B	RP-F:41	b,d	ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A,B	RP-F:41	e	CORRIDOR - DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A,B	RP-F:11	--	ASSEMBLY HALL - WINDOW SHADES - SOUTH	UP / DOWN	--
	L	A,B	RP-F:11	--	ASSEMBLY HALL - WINDOW SHADES - EAST	UP / DOWN	--
	L	A,B	RP-F:9	--	ASSEMBLY HALL - PROJECTOR SCREEN - WEST	UP / DOWN	--
	L	A,B	RP-F:10	--	ASSEMBLY HALL - PROJECTOR SCREEN - EAST	UP / DOWN	--
	DS	A,B	--	y,z	DAYLIGHT ZONE - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	C	--	q,x	DAYLIGHT ZONE - PRIMARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	DS	D	--	t,u,v	DAYLIGHT ZONE - PRIMARY NORTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	E	--	s	DAYLIGHT ZONE - SECONDARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	F	--	p,r	DAYLIGHT ZONE - SECONDARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	VS	C,D,E,F,G,H	--	a,b,c,d,e	ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
PARTITION A CLOSED PARTITION B CLOSED	L	A	RP-F:23, EM:14	a	WEST ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DMMING	--
	L	A	RP-F:41	b	WEST ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A	RP-F:11	--	WEST ASSEMBLY HALL - WINDOW SHADES	UP / DOWN	--
	L	A	RP-F:9	--	WEST ASSEMBLY HALL - PROJECTOR SCREEN	UP / DOWN	--
	L	B	RP-F:23, EM:14	c	EAST ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DIMMING	--
	L	B	RP-F:41	d	EAST ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	B	RP-F:41	e	CORRIDOR - DOWNLIGHTS	ON / OFF, DIMMING	--
	L	B	RP-F:11	--	EAST ASSEMBLY HALL - WINDOW SHADES - SOUTH	UP / DOWN	--
	L	B	RP-F:11	--	EAST ASSEMBLY HALL - WINDOW SHADES - EAST	UP / DOWN	--
	L	B	RP-F:10	--	EAST ASSEMBLY HALL - PROJECTOR SCREEN	UP / DOWN	--
	DS	A	RP-F:23,41, EM:14	z	DAYLIGHT ZONE - WEST ASSEMBLY HALL - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	B	RP-F:23,41, EM:14	y	DAYLIGHT ZONE - EAST ASSEMBLY HALL - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	C	RP-F:23,41, EM:14	x	DAYLIGHT ZONE - EAST ASSEMBLY HALL - PRIMARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	DS	D	RP-F:23,41, EM:14	v	DAYLIGHT ZONE - CORRIDOR	AUTOMATIC DAYLIGHT DIMMING	--
	DS	E	RP-F:23,41, EM:14	s	DAYLIGHT ZONE - WEST ASSEMBLY HALL - SECONDARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	F	RP-F:23,41, EM:14	r,u	DAYLIGHT ZONE - EAST ASSEMBLY HALL - SECONDARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	VS	C,D	--	a,b	WEST ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
	VS	E,F	--	c,d	EAST ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
	VS	G,H	--	e	CORRIDOR	MANUAL ON / AUTOMATIC OFF	1
PARTITION A CLOSED PARTITION B OPEN	L	A	RP-F:23, EM:14	a	WEST ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DMMING	--
	L	A	RP-F:41	b	WEST ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A	RP-F:11	--	WEST ASSEMBLY HALL - WINDOW SHADES	UP / DOWN	--
	L	A	RP-F:9	--	WEST ASSEMBLY HALL - PROJECTOR SCREEN	UP / DOWN	--
	L	B	RP-F:23, EM:14	c	EAST ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DIMMING	--
	L	B	RP-F:41	d	EAST ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	B	RP-F:11	--	EAST ASSEMBLY HALL - WINDOW SHADES - SOUTH	UP / DOWN	--
	L	B	RP-F:11	--	EAST ASSEMBLY HALL - WINDOW SHADES - EAST	UP / DOWN	--
	L	B	RP-F:10	--	EAST ASSEMBLY HALL - PROJECTOR SCREEN	UP / DOWN	--
	L	A,B	RP-F:41	e	CORRIDOR - DOWNLIGHTS	ON / OFF, DIMMING	--
	DS	A	RP-F:23,41, EM:14	z	DAYLIGHT ZONE - WEST ASSEMBLY HALL - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	B	RP-F:23,41, EM:14	y	DAYLIGHT ZONE - EAST ASSEMBLY HALL - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	C	RP-F:23,41, EM:14	q,x	DAYLIGHT ZONE - EAST ASSEMBLY HALL - PRIMARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	DS	D	RP-F:23,41, EM:14	t,u,v	DAYLIGHT ZONE - CORRIDOR	AUTOMATIC DAYLIGHT DIMMING	--
	DS	E	RP-F:23,41, EM:14	s	DAYLIGHT ZONE - WEST ASSEMBLY HALL - SECONDARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	F	RP-F:23,41, EM:14	p,r	DAYLIGHT ZONE - EAST ASSEMBLY HALL - SECONDARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	VS	C,D	--	a,b	WEST ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
	VS	E,F	--	c,d	EAST ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
	VS	G,H	--	e	CORRIDOR	MANUAL ON / AUTOMATIC OFF	1
PARTITION A OPEN PARTITION B CLOSED	L	A	RP-F:23, EM:14	a,c	ASSEMBLY HALL - LINEAR PENDANTS	ON / OFF, DMMING	--
	L	A	RP-F:41	b,d	ASSEMBLY HALL - PENDANT DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A	RP-F:11	--	ASSEMBLY HALL - WINDOW SHADES - SOUTH	UP / DOWN	--
	L	A	RP-F:11	--	ASSEMBLY HALL - WINDOW SHADES - EAST	UP / DOWN	--
	L	A	RP-F:9	--	ASSEMBLY HALL - PROJECTOR SCREEN - WEST	UP / DOWN	--
	L	A	RP-F:10	--	ASSEMBLY HALL - PROJECTOR SCREEN - EAST	UP / DOWN	--
	L	B	RP-F:41	e	CORRIDOR - DOWNLIGHTS	ON / OFF, DIMMING	--
	L	A,B	RP-F:23,41, EM:14	y,z	DAYLIGHT ZONE - PRIMARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	C	RP-F:23,41, EM:14	x	DAYLIGHT ZONE - PRIMARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	DS	D	RP-F:23,41, EM:14	v	DAYLIGHT ZONE - CORRIDOR	AUTOMATIC DAYLIGHT DIMMING	--
	DS	E	RP-F:23,41, EM:14	s	DAYLIGHT ZONE - SECONDARY SOUTH	AUTOMATIC DAYLIGHT DIMMING	--
	DS	F	RP-F:23,41, EM:14	r,u	DAYLIGHT ZONE - SECONDARY EAST	AUTOMATIC DAYLIGHT DIMMING	--
	VS	C,D,E,F	--	a,b,c,d,e	ASSEMBLY HALL	MANUAL ON / AUTOMATIC OFF	1
	VS	G,H	--	e	CORRIDOR	MANUAL ON / AUTOMATIC OFF	1

GENERAL REMARKS:

1. PROVIDE ALL REQUIRED EQUIPMENT, PARTS, AND ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
2. COORDINATE PROGRAMMING WITH OWNER AND CONFIRM WITH ENGINEER.

REMARKS:

1. SENSORS SHALL BE INACTIVE DURING NORMAL BUSINESS HOURS. COORDINATE TIME SCHEDULE WITH OWNER.

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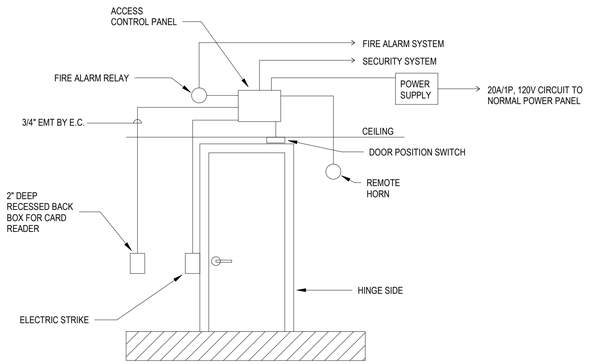
PBC Project Name:
West Side Learning Center
Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

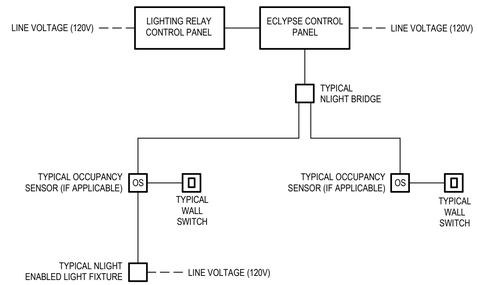
Title
ELECTRICAL
SCHEDULES

Sheet E503



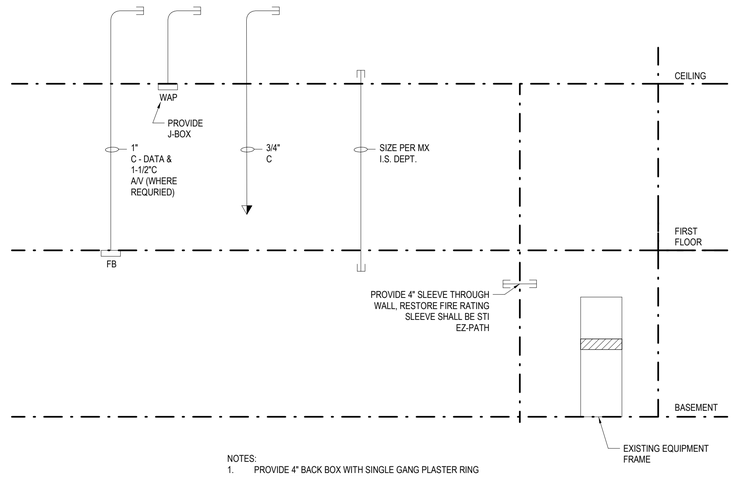
NOTES:
1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS AND BOXES.
2. EMPTY CONDUITS TO CONTAIN NYLON PULL STRING THROUGH ENTIRE LENGTH.
3. SEE ARCHITECTURAL PLANS FOR DOOR AND HARDWARE SCHEDULE.
4. DOOR SHALL UNLOCK UPON POWER LOSS OR ACTIVATION OF FIRE ALARM.
5. ACCESS CONTROL SYSTEM LIMITED TO ROUGH-IN ONLY. SECURITY SYSTEM PROVIDED AND INSTALLED BY OWNERS SECURITY VENDOR. COORDINATE CONDUIT REQUIREMENTS PRIOR TO ROUGH-IN.

1 ACCESS CONTROL DETAIL
NOT TO SCALE



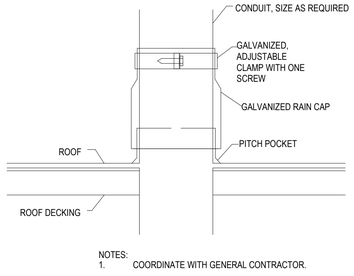
NOTES:
1. LIGHTING CONTROL SHALL BE ACUITY BRAND nLight SYSTEM, OR APPROVED EQUIVALENT.
2. COORDINATE PROGRAMMING WITH OWNER AND CONFIRM WITH ENGINEER.
3. CAT5 CABLES SHALL BE ROUTED IN CONDUIT OR J-HOOKS AS ALLOWABLE BY CODE. REFER TO SPECIFICATIONS FOR REQUIREMENTS. ALL CABLES SHALL BE ROUTED SO THAT NO CABLE UNDER ANY CIRCUMSTANCES IS SUPPORTED BY OR DRAPED ON HVAC DUCTWORK, PLUMBING PIPING, CONDUITS, ETC.
4. CONTRACTOR SHALL WIRE LIGHTING CONTROLS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANY ADDITIONAL EQUIPMENT AS REQUIRED TO MAKE LIGHTING CONTROLS OPERABLE AS INDICATED IN SEQUENCE OF OPERATION.
5. LIGHTING CONTROL PANELS SHALL BE PROGRAMMED AS:
   1. TURN LIGHTS "ON" AT PRESET TIME BY OWNER. LIGHTING SHALL REMAIN "ON" DURING BUISINESS HOURS.
   2. TURN LIGHTS "OFF" AT PRESET TIME BY OWNER. LIGHTS SHALL TURN ON/OFF 15 MINUTES PRIOR TO SWEEPING OF LIGHTS TO WARN OCCUPANTS.
   3. SENSORS SHALL BE DISABLED DURING BUSINESS OPERATING HOURS. OCCUPANCY SENSORS SHALL ACTIVATE AFTER HOURS AND OVERRIDE TIME CLOCK "OFF" SETTING.
6. NEW LIGHTING CONTROL SHALL INTEGRATE WITH EXISTING BUILDING AUTOMATION SYSTEM.

2 TYPICAL NLIGHT WIRING DIAGRAM
NOT TO SCALE



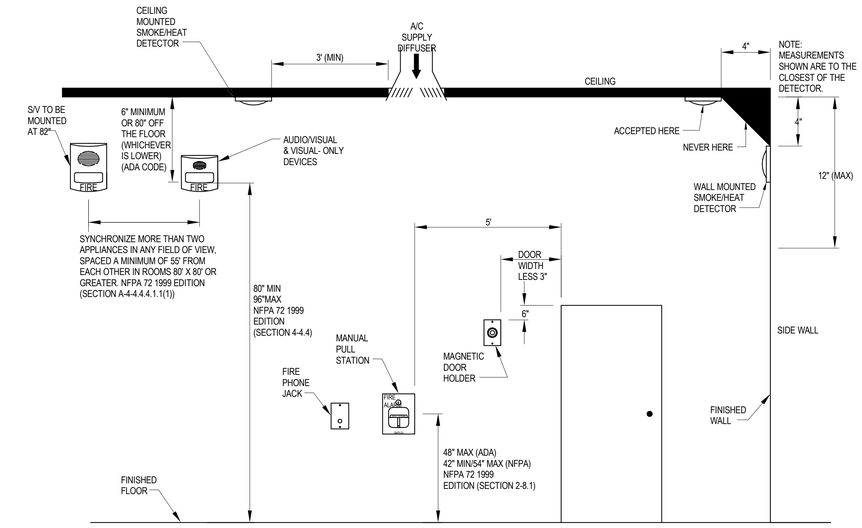
NOTES:
1. PROVIDE 4" BACK BOX WITH SINGLE GANG PLASTER RING FOR ALL TEL/DATA OUTLETS.
2. SEE SHEETS E300 AND E301 FOR DEVICE LOCATIONS AND QUANTITIES
3. STUB CONDUITS UP INTO ACCESSIBLE CEILING SPACE. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS.
4. INSTALL J-HOOKS AS REQUIRED SO NO CABLES REST ON OR ARE SUPPORTED BY DUCTWORK, PIPING, CONDUITS OR CEILING SYSTEM.
5. TEL/DATA AND A/V WORK LIMITED TO ROUGH-IN ONLY. ALL CABLING AND ASSOCIATED WORK BY OWNER.

3 TEL/DATA SYSTEM ROUGH-IN DIAGRAM
NOT TO SCALE

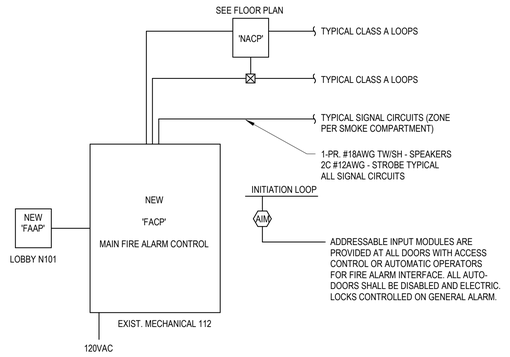


NOTES:
1. COORDINATE WITH GENERAL CONTRACTOR.

4 CONDUIT ROOF PENETRATION DETAIL
NOT TO SCALE



5 DEVICE MOUNTING HEIGHTS
NOT TO SCALE



6 FIRE ALARM
NOT TO SCALE

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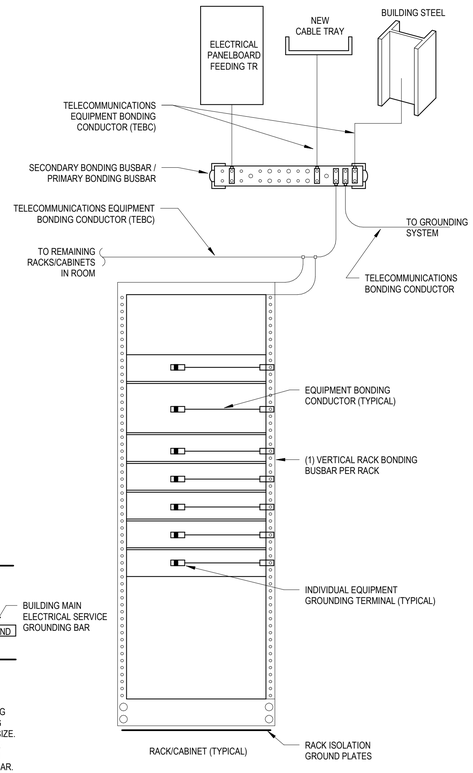
2 BOLLARD DETAIL

NOT TO SCALE



NOTE:
MINIMUM CONDUCTOR SIZE TO MATCH TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) SIZE. REFERENCE GROUNDING CONDUCTOR SIZING SCHEDULE AND UTILIZE FOR DETERMINATION OF EXACT CONDUCTOR SIZE. CONDUCTOR SIZE FOR BUSBAR BONDING CONDUCTOR (BBC) THAT ARE CONTINUOUS AND TAPPED SHALL BE DETERMINED AS DISTANCE FROM PRIMARY BONDING BUSBAR TO FURTHEST SECONDARY BONDING BUSBAR.

MINIMUM SIZE BONDING CONDUCTOR FOR TELECOMMUNICATIONS

CONDUCTOR LENGTH (FEET)	CONDUCTOR SIZE (AWG)	MAXIMUM AREA (CIRCULAR MILS)
20	6	26,240
32	4	41,740
41	3	52,620
51	2	66,360
65	1	83,690
80	1/0	105,600
100	2/0	133,100
130	3/0	167,800
165	4/0	211,600
195	250	250,000
230	300	300,000
270	350	350,000
310	400	400,000
390	500	500,000
470	600	600,000
545	700	700,000
585	750	750,000
625	800	800,000
700	900	900,000
780	1000	1,000,000
975	1250	1,250,000
1170	1500	1,500,000
1370	1750	1,750,000
1550	2000	2,000,000

DESIGN GUIDE BASIS:

1. MAXIMUM VALUE OF 0.1 OHM AT EACH POINT
2. 2K CIRCULAR MILS NEEDED FOR EVERY FOOT
3. NEC TABLE 8
4. WHERE NECESSARY TO COMPLY WITH SPECIFICATION REQUIREMENTS, CONDUCTOR MAY BE SIZED ONE AWG LARGER THAN GIVEN IN THIS TABLE.

NOTE:
TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR SHALL BE SIZED PER CHART ABOVE.

1 TELECOM GROUNDING SYSTEM

NOT TO SCALE

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PLUMBING ABBREVIATIONS:

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
CO	CLEANOUT
CO2	CARBON DIOXIDE
CPVC	CHLORINATED PVC
CW	COLD WATER
CWR	COLD WATER RETURN
CWFU	COLD WATER FIXTURE UNITS
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DS	DOWNSPOUT
DW	DISH WASHER
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EVAC	WASTE ANESTHETIC GAS DISPOSAL
EW	EMERGENCY EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRS	FLUSHING RIM SINK
FS	FLOOR SINK
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER
HWR	HOT WATER RETURN
HWFU	HOT WATER FIXTURE UNITS
IWP	INDIRECT WASTE PIPE
KS	KITCHEN SINK
KW	KILOWATT
LA	LAB AIR
LAV	LAVATORY
LV	LABATORY VACUUM
MB	MOP BASIN
MBH	BTU PER HOUR (THOUSAND
MV	MIXING VALVE
N	NITROGEN
NCP	NITROGEN CONTROL PANEL
ND	NOZZLE DRAIN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPT	NATIONAL PIPE THREAD TAPERED
O	OXYGEN
PEX	CROSS LINKED POLYETHYLENE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
PW	PURE WATER
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
RPM	REVOLUTIONS PER MINUTE
S	SINK
SD	SHOWER DRAIN
SE	SEWAGE EJECTOR
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
SP	SUMP PUMP
SPR	STANDPIPE RECEPTOR
SS	SERVICE SINK
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
VA	VACUUM
VTR	VENT THROUGH ROOF
W	WASTE PIPE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DEG-F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

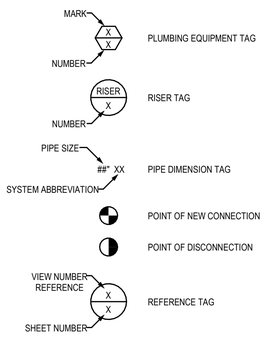
RENOVATION LEGEND:

<E>	EXISTING TO REMAIN
<ED>	EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE
<ER>	EXISTING TO BE RELOCATED
<EO>	EXISTING TO BE REMOVED
<EN>	EXISTING IN NEW LOCATION
<N>	NEW
<RAI>	REMAIN AS IS

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE WORK AND FACILITY LOCATIONS. CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF LOCAL GOVERNING BODIES. THE SUBMISSION OF A BID SHALL BE CONSTRUCTED AS CONCLUSIVE EVIDENCE THAT THE BIDDER HAS COMPLIED WITH THE ABOVE.
2. CONTRACTOR TO VERIFY FINAL TYPE, MODEL, AND QUANTITY OF ALL PLUMBING EQUIPMENT PRIOR TO BID.
3. WORK SCHEDULE WILL BE COORDINATED WITH OWNER AND FACILITY REPRESENTATIVES PRIOR TO COMMENCEMENT.
4. NEW WORK AND MATERIAL SHALL CONFORM TO CHICAGO BUILDING CODES.
5. THE INTENT OF THE DRAWINGS IS TO FURNISH THE OWNER A PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT.
6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLUMBING FIXTURES AND EQUIPMENT AS NOTED. REFER TO SPECIFICATION FOR APPROVED FIXTURES. CONTRACTOR SHALL RECEIVE, STORE, AND INSTALL OWNER FURNISHED FIXTURES.
7. SEE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF PLUMBING FIXTURES.
8. FURNISH AND INSTALL A COMPLETE AND OPERABLE SYSTEM OF DOMESTIC HOT AND COLD WATER TO EACH AND EVERY PLUMBING FIXTURE, APPLIANCE AND OUTLET WITH THE FINAL CONNECTIONS THERETO. CONNECTIONS TO WATER SERVICES, PIPE FITTINGS, VALVES, WATER HAMMER ARRESTORS, INSULATION, DI-ELECTRIC UNIONS, HANGERS, AND SUPPORT MEMBERS SHALL BE PROVIDED.
9. FURNISH AND INSTALL A COMPLETE AND OPERABLE SANITARY, WASTE, AND VENT SYSTEMS INCLUDING CONNECTIONS TO EACH AND EVERY PLUMBING FIXTURE, APPLIANCE, DRAIN, AND OUTLET WITH FINAL CONNECTIONS THERETO AS WELL AS CONNECTIONS TO THE SOIL, WASTE, AND VENT STACKS.
10. FURNISH AND INSTALL ALL PLUMBING FIXTURES, COMPLETE WITH TRAPS, SUPPLIES, STOPS, HANGERS, CARRIERS, AND OTHER RELATED ITEMS HEREINAFTER SPECIFIED.
11. CONTRACTOR TO BALANCE HOT WATER RECIRCULATION SYSTEM TO ENSURE THAT HOT WATER IS AVAILABLE AT EACH FIXTURE WITHIN 5 SECONDS OF OPERATION.
12. ALL PIPING SHALL BE SUSPENDED FROM STRUCTURAL MEMBERS OF THE BUILDING, OR AS APPROVED BY THE ARCHITECT AND THE OWNER'S REPRESENTATIVE. FOR PIPES 1 INCH IN DIAMETER OR LESS, UTILIZE EITHER SOLID OR SPLIT RING TYPE HANGERS. FOR LARGER PIPES, UTILIZE A STANDARD WEIGHT CLEVIS TYPE HANGER. ALL HANGERS SHALL BE A MAXIMUM OF 8'-0" ON CENTER.
13. PROVIDE POLISHED CHROME PLATED ESCUTCHEONS WHERE PIPES PASS THROUGH WALLS AT FIXTURES. WHERE OTHER EXPOSED PIPES PASS THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS, PROVIDE POLISHED DULL CHROME PLATED CAST BRASS SET SCREW FLANGES.
14. ALL CUTTING AND PATCHING FOR PLUMBING TRADES WORK SHALL BE BY THE PLUMBING CONTRACTOR OR BY OTHERS AS DIRECTED BY THE GENERAL CONTRACTOR.
15. PRIOR TO FINAL ACCEPTANCE BY OWNER, CONTRACTOR SHALL CLEAN ALL FIXTURES AND REMOVE ALL LABELS.
16. CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIAL, EQUIPMENT, ETC., FURNISHED BY HIM FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE AND TRANSFER OF THE BUILDING.
17. ALL FIXTURES SHALL HAVE NEW SHUT-OFF VALVES INSTALLED.
18. CONTRACTOR TO PROVIDE BACKFLOW PREVENTION DEVICE (CHECK VALVE) FOR DISHWASHERS, REFRIGERATORS, COFFEE-MAKERS, ICE-MAKERS, AND TRAP PRIMERS AS REQUIRED BY CODE.
19. THE CONTRACTOR SHALL INSULATE PIPES IN ALL REMOVABLE AND OPEN SINK COUNTERS.
20. THE CONTRACTOR SHALL KEEP THE SITE AND AREAS UNDER CONSTRUCTION IN AN ORDERLY CONDITION AT ALL TIMES AND FREE OF ANY ACCUMULATION OF RUBBISH, DEBRIS, AND WASTE. CARE SHOULD BE TAKEN WHEN WORKING AROUND FINISHED SURFACES AND INSTALLATIONS. ALL EFFORTS SHALL BE MADE TO ENSURE CONSTRUCTION ACTIVITIES DO NOT EXPOSE AIR CONDITIONING SYSTEMS OR OCCUPIED SPACES TO ANY CONSTRUCTION DUST, DEBRIS, AND/OR CHEMICAL ODORS . CONTRACTOR SHALL SEAL ALL PLENUMS, TRANSFER GRILLES, AND OPENINGS AROUND WORK AREAS TO ACHIEVE THIS. IF THE CONTRACTOR FAILS TO CONTAIN CONSTRUCTION DUST, THE CONTRACTOR WILL BE RESPONSIBLE FOR ROUTINE CLEAN-UP OF MERCHANDISE AND FIXTURES. CONTRACTOR WOULD ALSO BE RESPONSIBLE FOR ROUTINE FILTER CHANGES DURING CONSTRUCTION.
21. CONTRACTOR SHALL RECORD THE LOCATIONS AND TAG ALL OF THE VALVES THAT ARE TO BE INSTALLED. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS INDICATING INSTALLED LOCATIONS AS WELL AS A SCHEDULE INDICATING THE VALVE SIZE AND MANUFACTURER.
22. CONTRACTOR SHALL TAG ALL VALVES TO BE INSTALLED AS PART OF THIS PROJECT. VALVE TAGS SHALL BE TYPEWRITTEN LETTER SIZE IN AN ANODIZED ALUMINUM FRAME. GREEN CEILING TACKS SHALL BE USED WHERE VALVES ARE LOCATED ABOVE A CEILING.
23. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND EQUIPMENT LOCATED ABOVE GYPSUM CEILINGS OR BEHIND WALLS AS NECESSARY FOR SERVICING AND MAINTENANCE.
24. THE CONTRACTOR SHALL NOTFIY THE OWNER A MINIMUM OF 14 DAYS AHEAD OF ANY REQUIRED UTILTIY SHUTDOWNS. REFER TO SPECIFICATION 22 1116 AND 22 1316 FOR FULL REQUIREMENTS.
25. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPING ON THE PLANS. THE CONTRACTOR SHALL NOTFIY THE ARCHITECT IN WRITING IF THERE ARE ANY DEVIATIONS.

PLUMBING TAGS:



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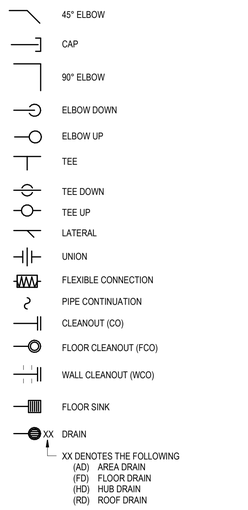
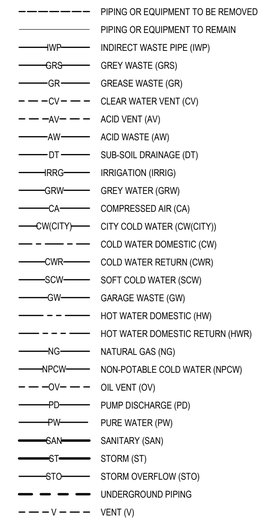


PIPE MATERIALS

CONDITION / LOCATION	TYPE
ABOVE GROUND WATER	TYPE "L" COPPER
BELOW GROUND WATER	TYPE "K" COPPER
BELOW GROUND WASTE	CAST IRON
WASTE (ABOVE 2")	CAST IRON
WASTE (UNDER 2")	TYPE "M" COPPER
VENT (UNDER 2")	TYPE "M" COPPER
VENT (ABOVE 2")	CAST IRON

PIPE SYSTEM LINETYPES:



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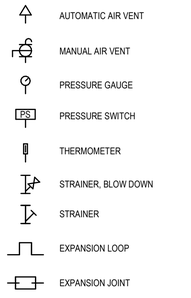
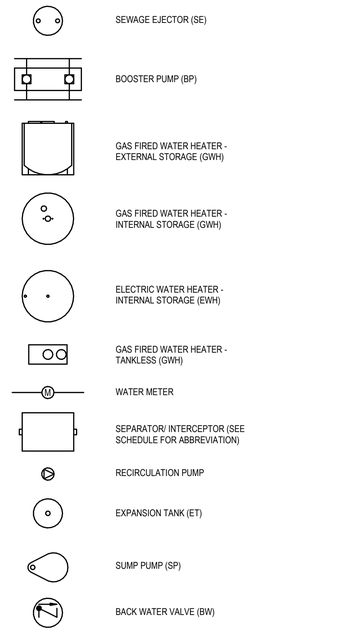


PLUMBING EQUIPMENT:



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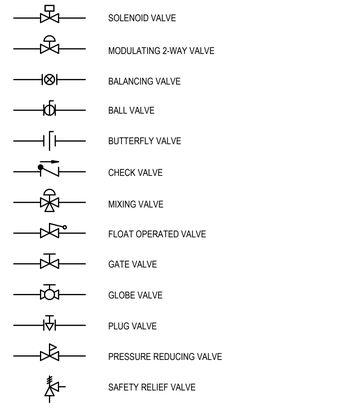

COMMUNITY CENTER ADDITION	
NUMBER	**NAME**
P000	PLUMBING LEGEND
P100	PLUMBING ASSEMBLY HALL SANITARY & VENT
P200	PLUMBING ASSEMBLY HALL DOMESTIC WATER
P300	PLUMBING SCHEDULES
P400	PLUMBING DETAILS
P500	PLUMBING ENLARGED PLANS - LOWER LEVEL
P501	PLUMBING ENLARGED PLANS - UPPER LEVEL
P600	PLUMBING RISER DIAGRAM
P601	PLUMBING RISER DIAGRAM

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CITY COLLEGES of CHICAGO

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LEED Consultant

Issuance

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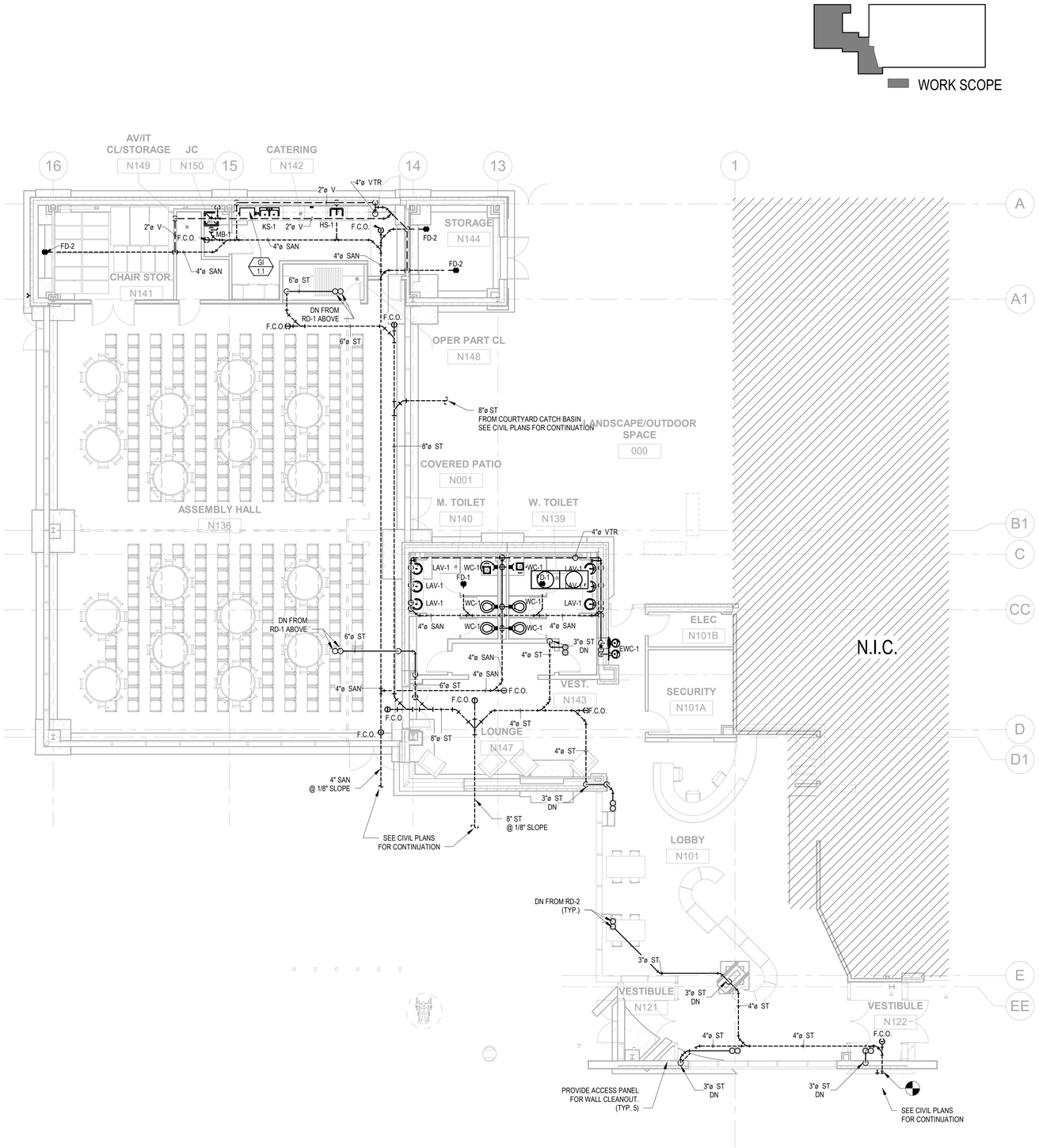
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
PLUMBING LEGEND

Sheet
P000



1 ASSEMBLY HALL - SANITARY AND VENT

1/8" = 1'-0"

0 4' 8' 16'

BIM 360://Malcom X West Side Learning Center Addition and Renovation/022131_MXC WSLC COMM RM AND EXISTING RENOVATION_MEP21.rvt
3/12/2024 10:54:26 AM

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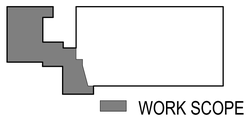
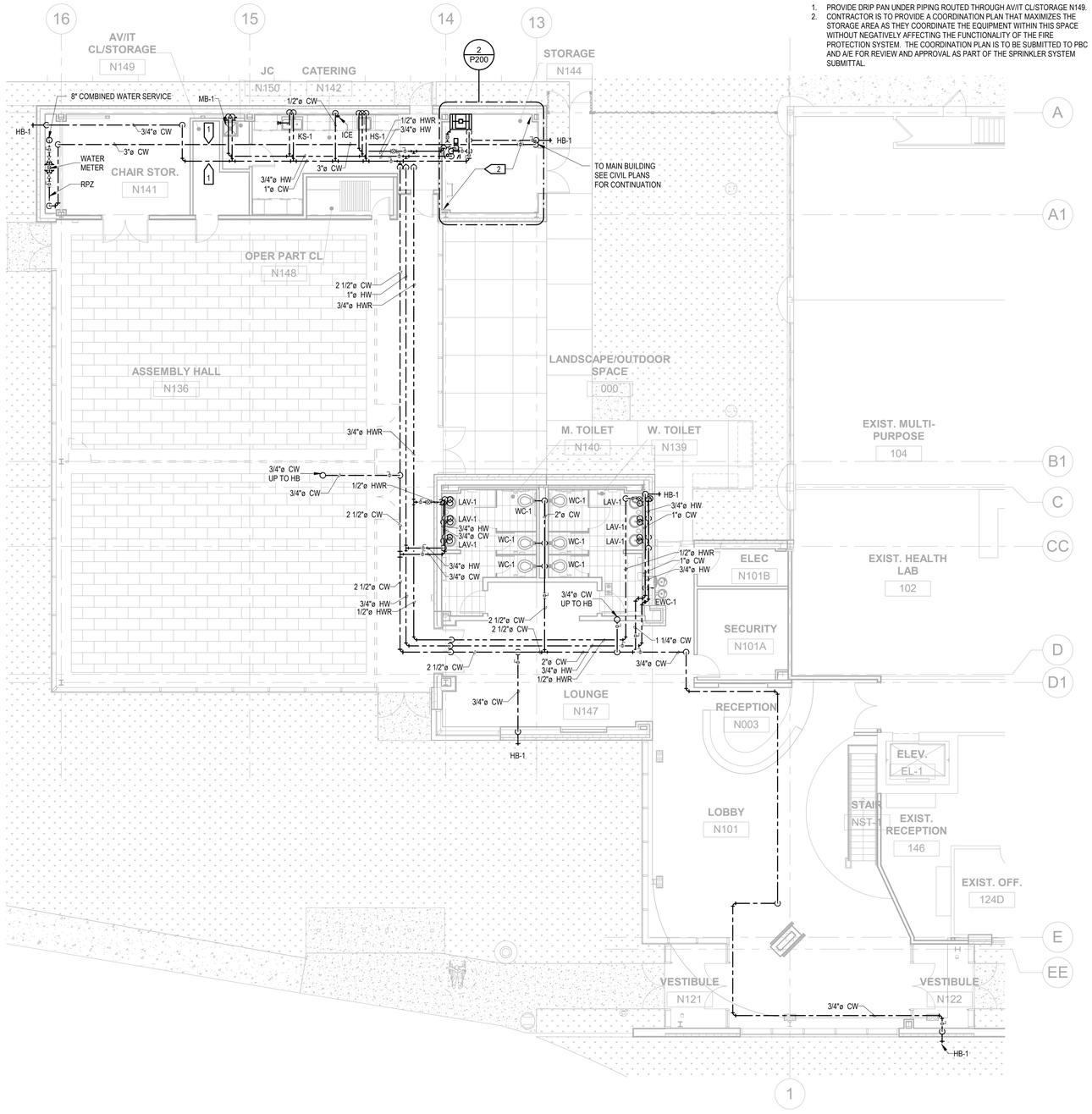
PLUMBING ASSEMBLY HALL SANITARY & VENT

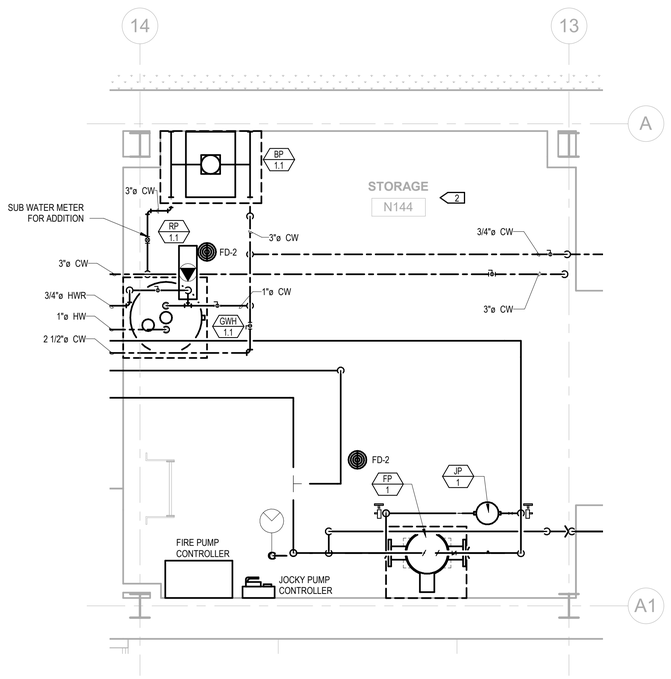
Sheet
P100



REFERENCE NOTES: <#>

1. PROVIDE DRIP PAN UNDER PIPING ROUTED THROUGH AV/IT CL/STORAGE N149.
2. CONTRACTOR IS TO PROVIDE A COORDINATION PLAN THAT MAXIMIZES THE STORAGE AREA AS THEY COORDINATE THE EQUIPMENT WITHIN THIS SPACE WITHOUT NEGATIVELY AFFECTING THE FUNCTIONALITY OF THE FIRE PROTECTION SYSTEM. THE COORDINATION PLAN IS TO BE SUBMITTED TO PBC AND A/E FOR REVIEW AND APPROVAL AS PART OF THE SPRINKLER SYSTEM SUBMITTAL.





2 STORAGE ROOM N144 - ENLARGED PLAN

1/2" = 1'-0"

0 1' 2' 4'

1 ASSEMBLY HALL - DOMESTIC WATER

1/8" = 1'-0"

0 4' 8' 16'

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Title
PLUMBING ASSEMBLY HALL DOMESTIC WATER

Sheet P200

GAS FIRED WATER HEATER SCHEDULE

TAG	LOCATION	STORAGE (GAL)	RECOVERY CAP. (GPH @ 100°F RISE)	NATURAL GAS INPUT (BTUH)	ELECTRICAL DATA				FLUE CONNECTION SIZE	MANUFACTURER / MODEL NO.	TEMP. SET POINT (°F)	WEIGHT (LBS)	REMARKS
					VOLTS	PHASE	HZ	AMPS					
GWH-1.1	N144 - STORAGE	60	138	120000	120	1	60	5	4"	AOSMITH / BTH-120(A)	140	460	1-5
GWH-LL.1	017B - EXIST.MECH	85	361	366000	120	1	60	5	6"	AOSMITH / BTL-366(A)	140	900	1-3

REMARKS:
1. WATER HEATER SHALL HAVE FOAM INSULATION, BE ASME RATED, AND PROVIDED WITH AN ASME RATED T&P RELIEF VALVE.
2. PROVIDE WITH DRAIN PAN. DRAIN PAN SHALL BE PIPED TO NEAREST FLOOR DRAIN.
3. PROVIDE WITH DISCONNECT SWITCH.
4. PROVIDE WITH MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT.
5. INSTALL ON 4" THICK CONCRETE PAD.

PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA					MANUFACTUTER	MODEL NO	REMARKS
						RPM	W	V	PH	HZ			
RP-1.1	N144 - STORAGE	HOT WATER RECIRCULATION	INLINE CENTRIFUGAL	2	8.00	1450	20	120	1	60	BELL & GOSSETT	e3-6 ECOCIRC	1, 2, 3
BP-1.1	N144 - STORAGE	DOMESTIC WATER	MULTI-STAGE	65	46.00	3500	1500	208	3	60	BELL & GOSSETT	MBX SIMPLEX 2ST	4,5,6

REMARKS:
1. PUMP SHALL HAVE AN EC MOTOR AND HAVE AN ADJUSTABLE SPEED SWITCH.
2. PROVIDE WITH e3 TIMER ACCESSORY.
3. PROVIDE WITH A FIELD MOUNTED AQUASTAT FOR PUMP CONTROL.
4. V15P TANK TO BE INCLUDED WITH PACKAGED SYSTEM.
5. INSTALL ON 4" THICK CONCRETE PAD.
6. PROVIDE A BACNET CARD FOR BOOSTER PUMP TO CONNECT TO BAS.

BACKFLOW PREVENTER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION
ICE	ZURN	740	DUAL CHECK VALVE BACKFLOW PREVENTER WITH ATMOSPHERIC PORT AND STRAINER, ASSE 1022

GREASE INTERCEPTOR SCHEDULE

TAG	LOCATION	TYPE	CAPACITY		WEIGHT (LBS)	MANUFACTURER / MODEL NO.	REMARKS
			LIQUID (GAL)	WASTE (LBS)			
GI-1.1	142 - CATERING	HYDROMECHANICAL	17.0	86.00	106	ROCKFORD / G-1820	ALL
GI-1.2	142 - CATERING	HYDROMECHANICAL	17.0	86.00	106	ROCKFORD / G-1820	ALL

PLUMBING FIXTURE UNIT SCHEDULE ASSEMBLY HALL

TAG	DESCRIPTION	QUANTITY	FIXTURE UNITS					
			CW	HW	SFU	TOTAL SFU	DFU	TOTAL DFU
EWC-1	ELECTRIC WATER COOLER	1	0.5	0	0.5	0.5	1	1
FD-1	FLOOR DRAIN	2	0	0	0	0	3	6
FD-2	FLOOR DRAIN	3	0	0	0	0	3	9
HB-1	HOSE BIBB	5	4	0	4	20	0	0
HB-2	ROOF HOSE BIBB	2	4	0	4	8	0	0
HS-1	HAND SINK	1	1.5	1.5	2	2	1	1
ICE	BACKFLOW PREVENTER	1	1	0	1	1	0	0
KS-1	KITCHEN SINK	1	3	3	4	4	2	2
LAV-1	PUBLIC LAVATORY	6	1.5	1.5	2	12	1	6
MB-1	MOP BASIN - TERRAZZO	1	2.25	2.25	3	3	3	3
WC-1	WATER CLOSET - FLUSH VALVE	6	10	0	10	60	4	24
						110.5		52

PLUMBING FIXTURE UNIT SCHEDULE RENOVATION

TAG	DESCRIPTION	QUANTITY	FIXTURE UNITS					
			CW	HW	SFU	TOTAL SFU	DFU	TOTAL DFU
FD-1	FLOOR DRAIN	1	0	0	0	0	3	3
HB-2	ROOF HOSE BIBB	1	4	0	4	4	0	0
HD-1	HUB DRAIN	1	0	0	0	0	3	3
KS-1	KITCHEN SINK	1	3	3	4	4	2	2
LAV-2	PUBLIC LAVATORY	2	1.5	1.5	2	4	1	2
WC-1	WATER CLOSET - FLUSH VALVE	2	10	0	10	20	4	8
						32		18

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	NOMINAL PIPE SIZE (IN)				MANUFACTURER	MODEL NO.	REMARKS
		WASTE	VENT	CW	HW			
EWC-1	ELECTRIC WATER COOLER	1 1/4"	1 1/4"	1/2"	0"	ELKAY	LZWS-LRPBM28K	COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR. PROVIDE WITH FRONT ACCESS PANEL AND CANE APRON.
FD-1	FLOOR DRAIN	2"	1 1/2"	0"	0"	JR SMITH	2005-A	6" STRAINER DIAMETER FLOOR DRAIN WITH 2" EXIT
FD-2	FLOOR DRAIN	4"	2"	0"	0"	JR SMITH	2005-A	6" STRAINER DIAMETER FLOOR DRAIN WITH 4" EXIT
HB-1	HOSE BIBB	0"	0"	3/4"	0"	JR SMITH	5515	FREEZE PROOF, LOCKABLE STAINLESS STEEL EXTERIOR HOSE BIBB. PROVIDE WITH INTEGRAL VACUUM BREAKER AND INTEGRAL SHUT-OFF VALVE.
HB-2	ROOF HOSE BIBB	0"	0"	3/4"	0"	WOODFORD	SRH-MS	EXPOSED-TYPE ROOF MOUNTED HOSE BIBB, CAST IRON SUPPORT FLANGE AND DECK CLAMP, LEVER CONTROL, FREEZE-RESISTANT, DUAL-CHECK VACUUM BREAKER, ASSE 1052 LISTED
HD-1	HUB DRAIN	2"	1 1/2"	0"	0"	JR SMITH	3824T	3" HUB DRAIN WITH 4" FUNNEL. POLISHED CHROME PLATED CAST BRONZE.
HS-1	HAND SINK	1 1/4"	1 1/4"	3/8"	3/8"	ELKAY	LRAD172255	ADA COMPLIANT, SINGLE BOWL STAINLESS STEEL SINK. PROVIDE WITH CHICAGO FAUCETS / 201-G8AE2805F317AB MANUAL GOOSENECK FAUCET WITH WRISTBLADE HANDLES. MAX 0.5 GPM.
KS-1	KITCHEN SINK	1 1/2"	1 1/4"	1/2"	1/2"	ELKAY	GECR3321	ADA COMPLIANT, DOUBLE BOWL STAINLESS STEEL SINK. PROVIDE WITH CHICAGO FAUCETS / 786-GN8AE36ABCP MANUAL GOOSENECK FAUCET WITH WRISTBLADE HANDLES. MAX 1.5 GPM.
LAV-1	PUBLIC LAVATORY	1 1/4"	1 1/4"	3/8"	3/8"	KOHLER	K-2196-4	SELF-RIMMING ADA COMPLIANT LAVATORY. PROVIDE WITH CHICAGO FAUCETS / EQ-C11A-53ABCPT DECK MOUNTED, INFRARED DETECTION FAUCET. PROVIDE WITH EQ-A12-KJKCP 4" FIXED CENTER COVER PLATE. FAUCET SHALL BE HARDWIRED. COORDINATE POWER SUPPLY WITH ELECTRICAL DRAWINGS. MAX 0.5 GPM. PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE.
LAV-2	PUBLIC LAVATORY	1 1/2"	1 1/2"	3/8"	3/8"	KOHLER	K-2006	WALL-HUNG, VITREOUS CHINA LAVATORY. PROVIDE WITH CHICAGO 786-E67VPABCP SPREAD CONCEALED FITTING, 8" CENTERS, 5-1/4" GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, CERAMIC-CARTRIDGE, 1.5 GPM LAMINAR-FLOW OUTLET AND FURNISH ZURN Z1231 WALL CARRIER AND ADA COMPLYING INSULATION ON EXPOSED TRAP AND SUPPLY.
MB-1	MOP BASIN - TERRAZZO	3"	1 1/2"	1/2"	1/2"	FIAT	TSBC6011	ONE PIECE PRECAST TERRAZZO, STAINLESS STEEL STRAINER, 3" CONNECTION, FAUCET CHICAGO NO. 782-IS WITH 3/4" HOSE THREAD OUTLET, PAIL HOOK WITH WALL SUPPORT, POLISHED CHROME, AND INTEGRAL STOPS. PROVIDE HOSE CONNECTION VACUUM BREAKER ON THREADED OUTLET.
RD-1	ROOF DRAIN	4"	0"	0"	0"	JR SMITH	1310	BOTTOM OUTLET ROOF DRAIN, CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL GUARD WITH LOW PROFILE CAST IRON DOME.
RD-2	ROOF DRAIN	3"	0"	0"	0"	JR SMITH	1310	BOTTOM OUTLET ROOF DRAIN, CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL GUARD WITH LOW PROFILE CAST IRON DOME.
WC-1	WATER CLOSET - FLUSH VALVE	4"	2"	1"	0"	KOHLER	K-84325-L	WALL MOUNTED, ADA COMPLIANT WATER CLOSET.PROVIDE WITH AMERICAN STANDARD / 606B.121 HARD-WIRED FLUSH VALVE. MAX 1.28 GPF. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. FURNISH ZURN Z1201-ND WALL CARRIER AND BEMIS 1955C DURALOY SEAT.

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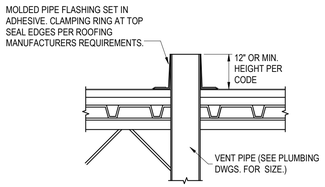
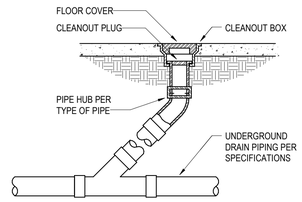
PLUMBING SCHEDULES

Sheet
P300

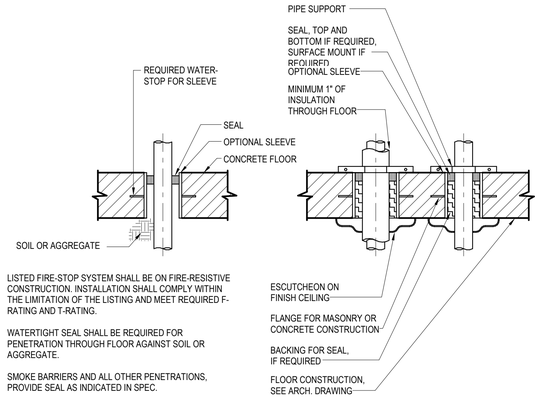


ROOF DESIGN VARIES - SEE ARCHITECTURAL DRAWINGS

9 PLUMBING VENT
SCALE: N.T.S.



6 FLOOR CLEANOUT DETAIL
SCALE: N.T.S.



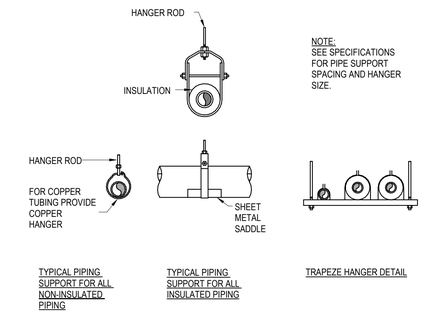
LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE-RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATION OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.

WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THROUGH FLOOR AGAINST SOIL OR AGGREGATE.

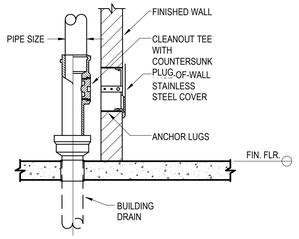
SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.

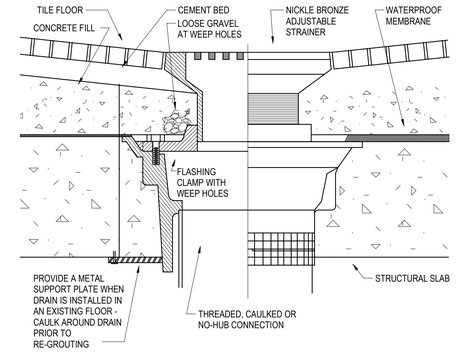
3 FLOOR PENETRATION
SCALE: N.T.S.



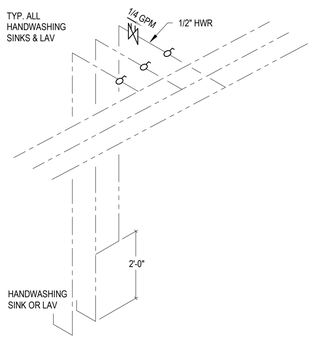
8 PIPE SUPPORT
SCALE: N.T.S.



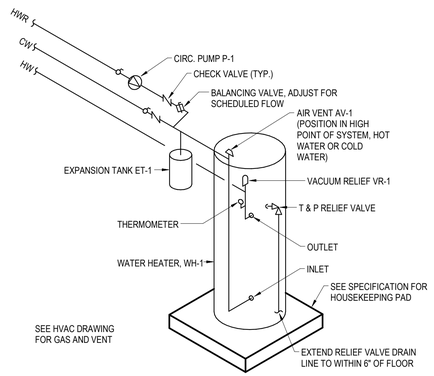
5 CLEANOUT WALL
SCALE: N.T.S.



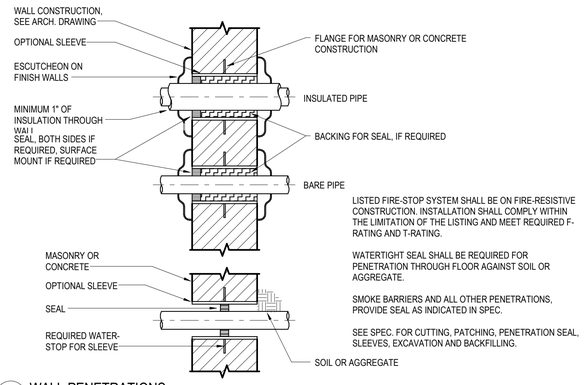
2 TYPE "C" FLOOR DRAIN DETAIL
SCALE: N.T.S.



7 HANDWASHING SINKS & LAV DETAIL
NOT TO SCALE



4 WATER HEATER - SINGLE
SCALE: N.T.S.



LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE-RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATION OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.

WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THROUGH FLOOR AGAINST SOIL OR AGGREGATE.

SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.

1 WALL PENETRATIONS
SCALE: N.T.S.

PUBLIC BUILDING COMMISSION
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LEED Consultant

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PBC Project Name:
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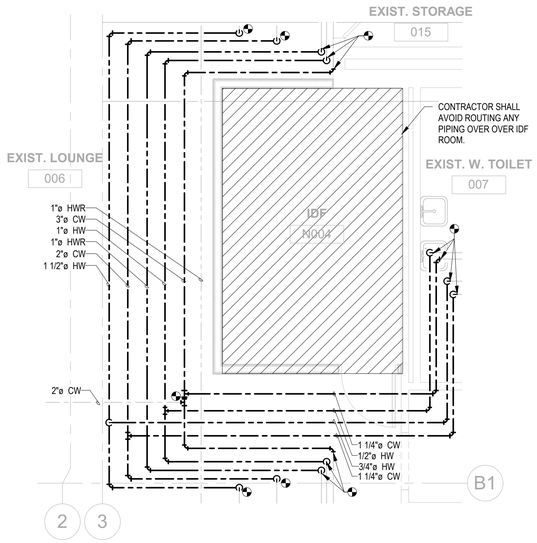
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

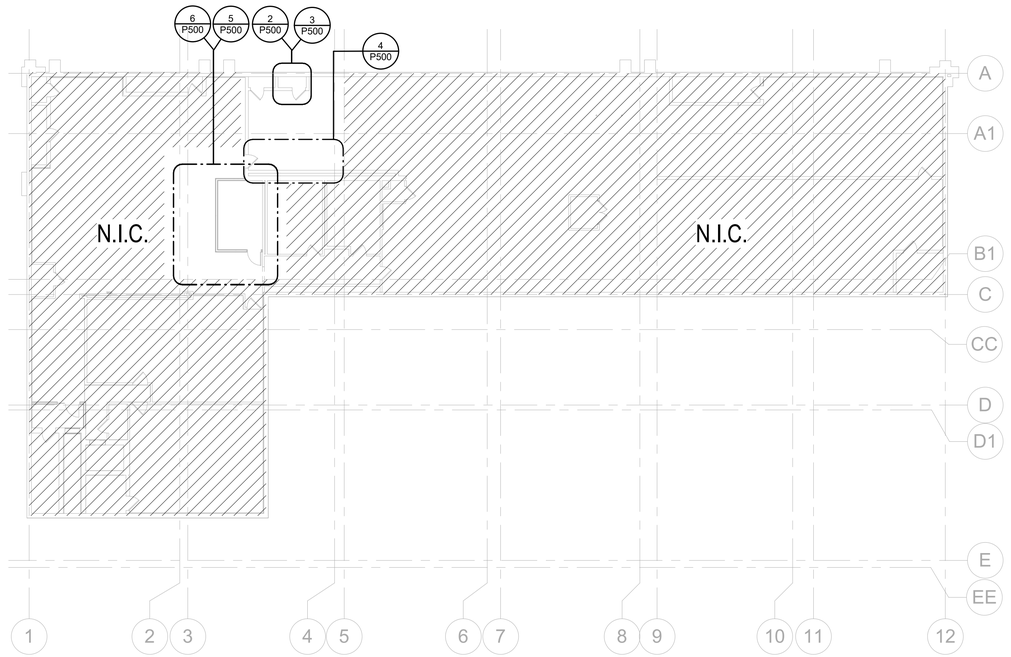
Title
PLUMBING DETAILS

Sheet
P400



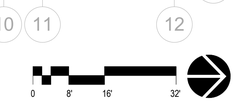
6 LOWER LEVEL IT ROOM PIPE RELOCATION

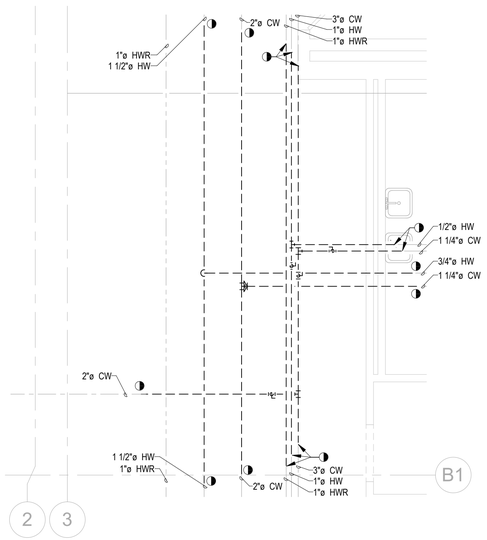
1/4" = 1'-0"



1 LOWER LEVEL - KEY PLAN

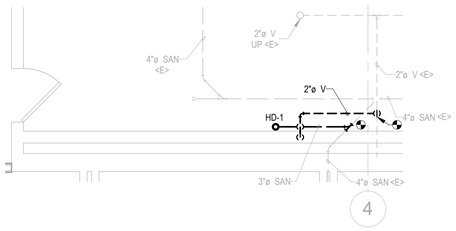
1/16" = 1'-0"





5 LOWER LEVEL IT ROOM PIPE RELOCATION - DEMO

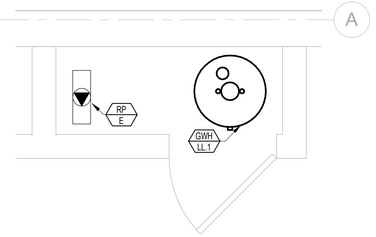
1/4" = 1'-0"



4 LOWER LEVEL - HUB DRAIN PLAN

1/4" = 1'-0"

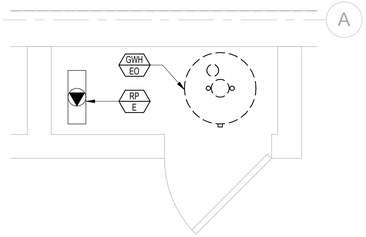
CONNECT NEW WATER HEATER TO EXISTING SYSTEM.
NEW WATER HEATER SHALL RE-USE EXISTING 6"ø FLUE.



3 ENLARGED PLAN - WATER HEATER REPLACEMENT

1/2" = 1'-0"

DEMOLISH EXISTING WATER HEATER.
EXISTING HOT WATER RECIRCULATION PUMP AND EXISTING EXPANSION TANK ARE TO REMAIN.



2 ENLARGED PLAN - WATER HEATER DEMOLITION

1/2" = 1'-0"

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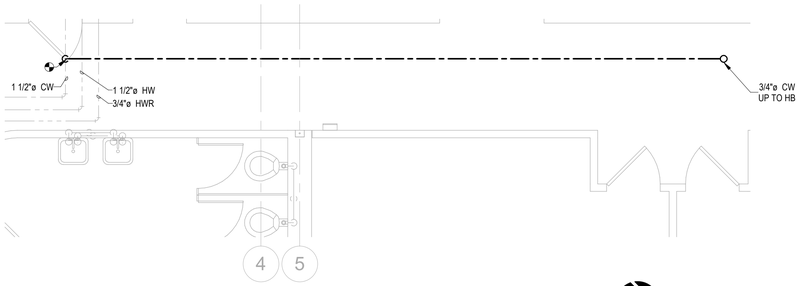
PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

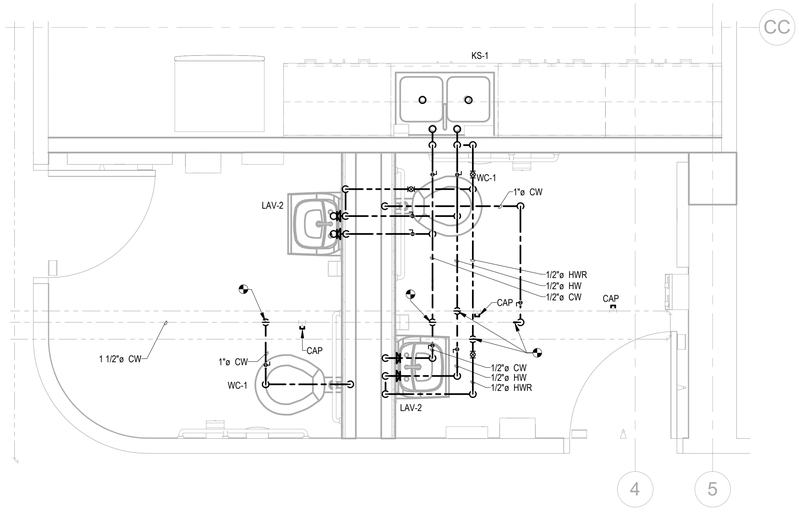
Title
PLUMBING ENLARGED PLANS - LOWER LEVEL

Sheet P500



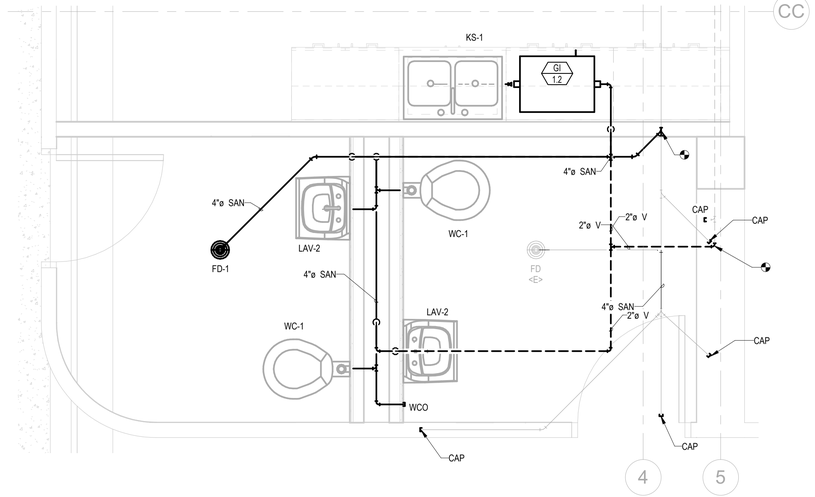
5 ROOF HOSE BIBB ON EXISTING BUILDING

1/4" = 1'-0"



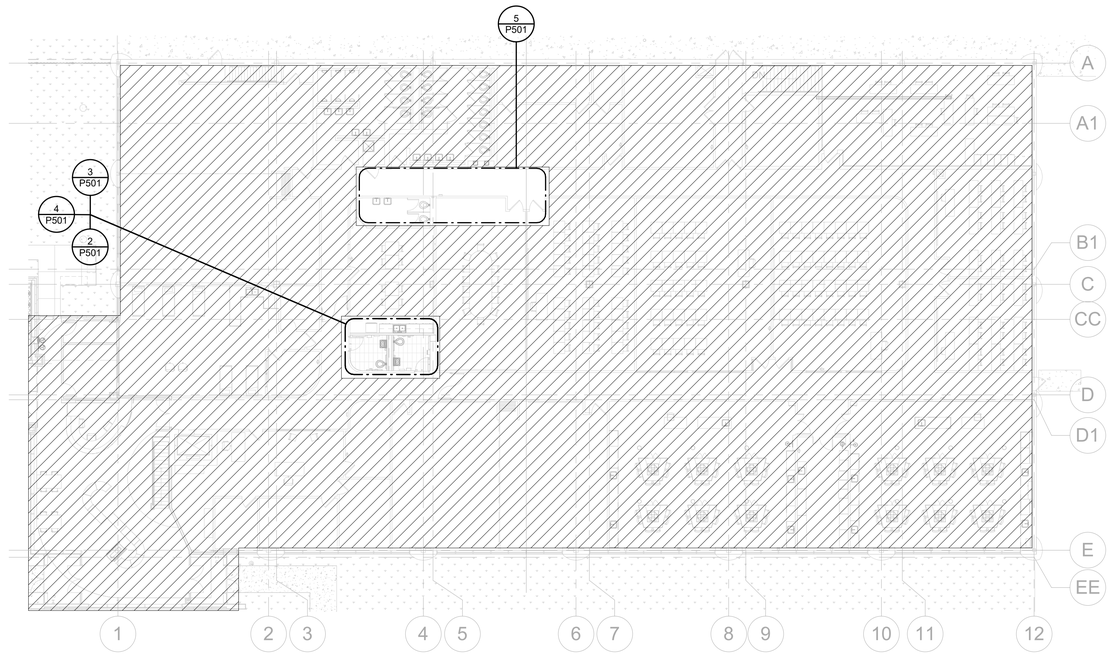
4 GENDER NEUTRAL BATHROOMS - DOMESTIC WATER

1/2" = 1'-0"



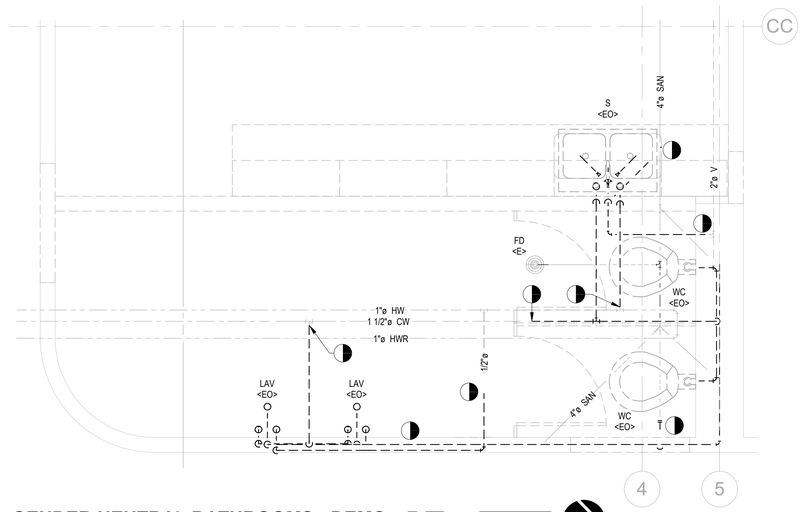
3 GENDER NEUTRAL BATHROOMS - SANITARY AND VENT

1/2" = 1'-0"



1 UPPER LEVEL - KEY PLAN

1/16" = 1'-0"



2 GENDER NEUTRAL BATHROOMS - DEMO

1/2" = 1'-0"

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	95% CD	12/07/2023

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PBC Contract No: PS3036

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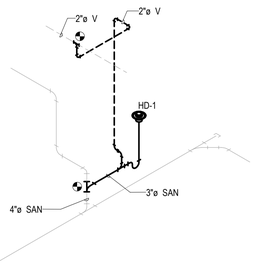
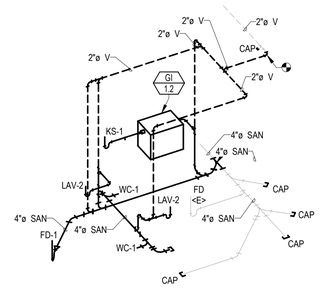
Title
PLUMBING ENLARGED PLANS - UPPER LEVEL

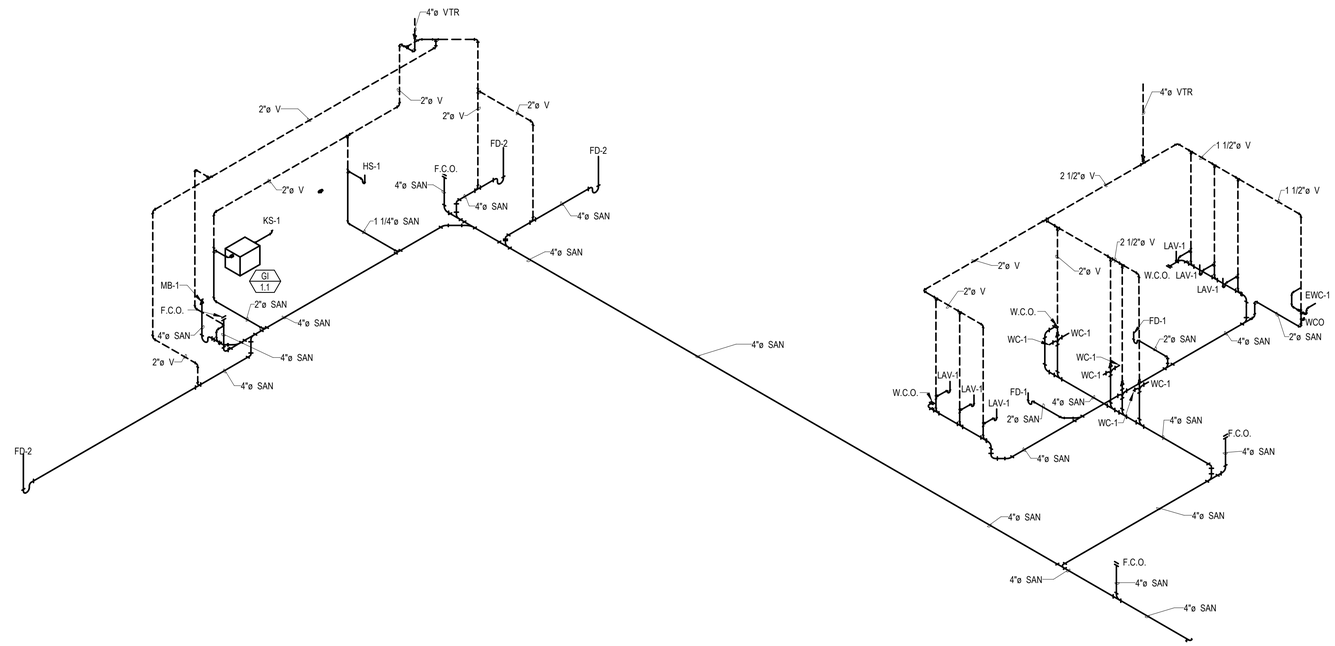
Sheet
P501



3 LOWER LEVEL CONDENSATE DRAIN - SANITARY & VENT RISER DIAGRAM



2 ALL GENDER BATHROOMS - SANITARY & VENT RISER DIAGRAM



1 ADDITION - SANITARY & VENT RISER DIAGRAM

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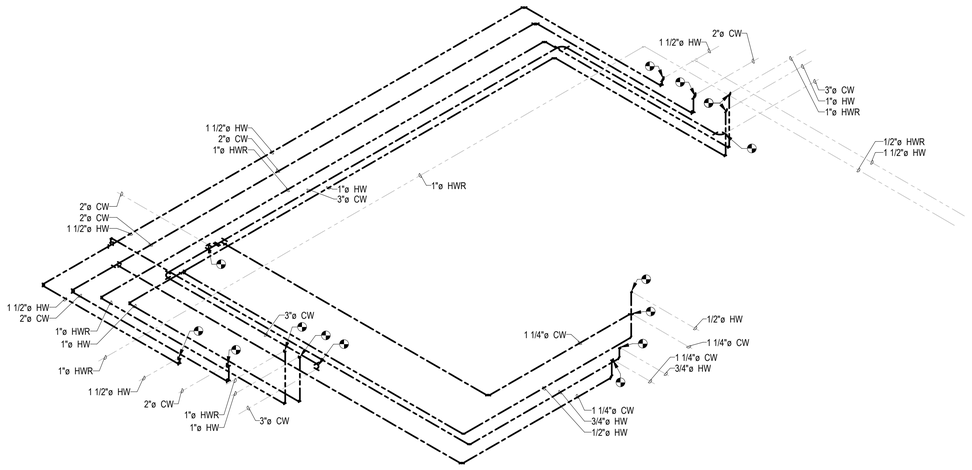
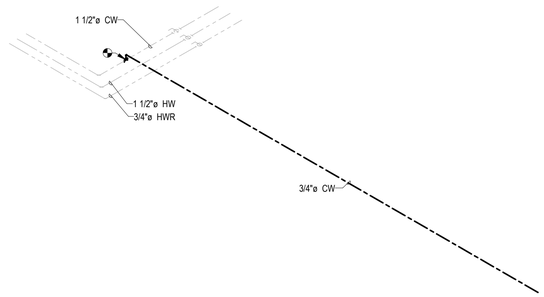
Title
PLUMBING RISER DIAGRAM

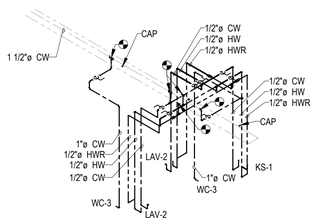
Sheet
P600



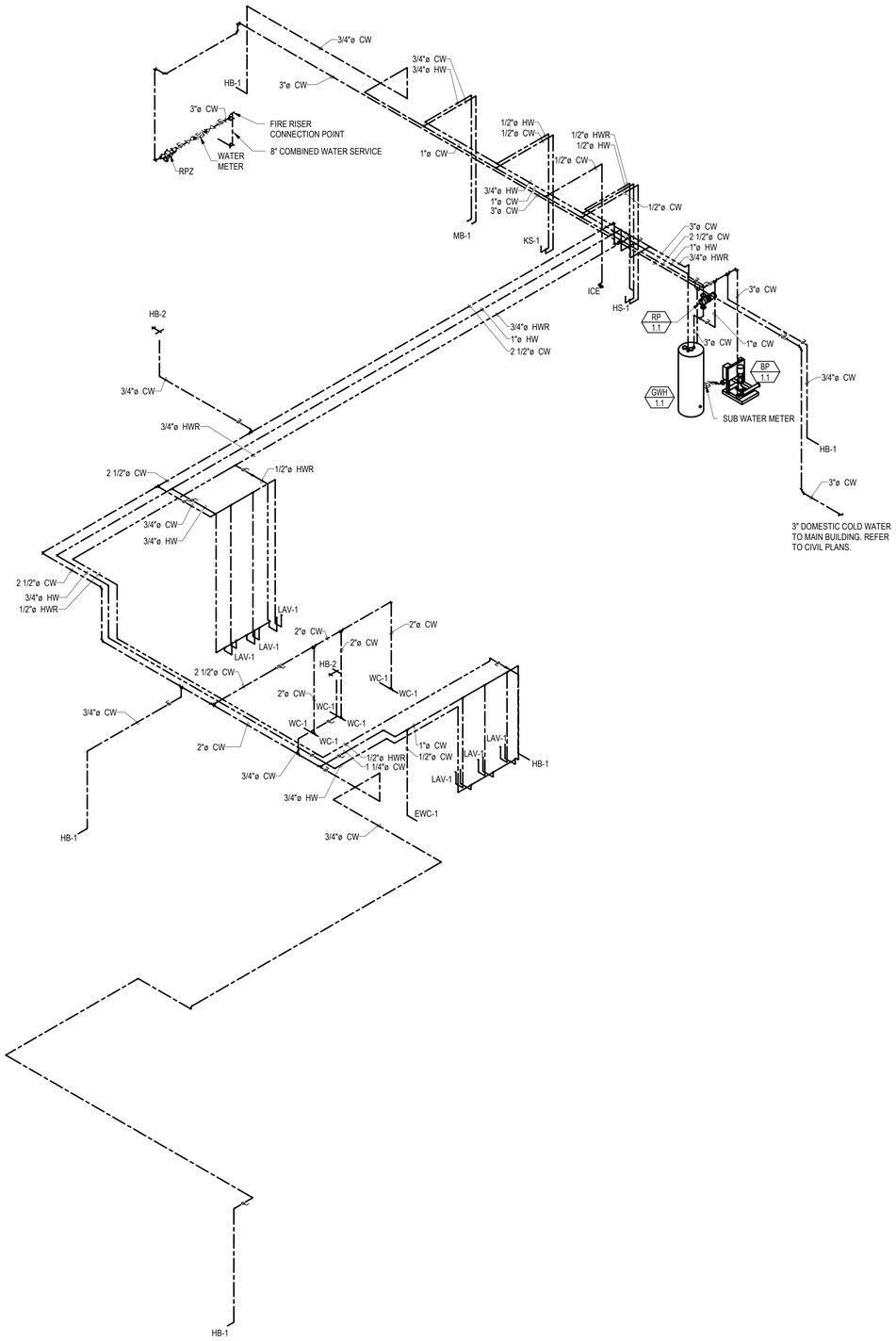
4 LOWER LEVEL - DOMESTIC WATER RISER DIAGRAM



3 HOSE BIBB ON EXISTING BUILDING - DOMESTIC WATER RISER DIAGRAM



2 ALL GENDER BATHROOMS - DOMESTIC WATER RISER DIAGRAM



1 ADDITION - DOMESTIC WATER RISER DIAGRAM

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PLUMBING RISER DIAGRAM

Sheet
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FIRE FIGHTING EQUIPMENT:

DENOTES FIRE FIGHTING EQUIPMENT (BASIC SHAPE)

DENOTES CO2 REEL STATION

DENOTES DRY CHEMICAL REEL STATION

DENOTES FOAM REEL STATION

DENOTES HOSE STATION, DRY STANDPIPE

DENOTES HOSE STATION, WET STANDPIPE

DENOTES DRY MONITOR NOZZLE (SPECIFY ORIFICE SIZE)

DENOTES CHARGED MONITOR NOZZLE (SPECIFY ORIFICE SIZE)

PIPE FITTINGS

45° ELBOW

CAP

90° ELBOW

ELBOW DOWN

ELBOW UP

TEE

TEE DOWN

TEE UP

LATERAL

UNION

PIPE CONTINUATION

FLANGE

WATER SUPPLY AND DISTRIBUTION:

DENOTES WATER MAIN

DENOTES WATER MAIN UNDER BUILDING

DENOTES SPRINKLER DRAIN PIPE (SPRD)

DENOTES DRY PIPE (FP-D)

DENOTES PRE-ACTION SYSTEM PIPING (FP-PA)

DENOTES CLEAN AGENT-CARRYING PIPE (FP-CA)

DENOTES FOAM-CARRYING PIPE (FP-F)

DENOTES VALVE IN GENERAL (BASIC SHAPE - INDICATE VALVE SIZE)

DENOTES VALVE IN PIT (INDICATE VALVE SIZE)

DENOTES VALVE WITH INDICATOR POST (INDICATE VALVE SIZE)

DENOTES KEY-OPERATED VALVE (INDICATE VALVE SIZE)

DENOTES OS&Y VALVE (OUTSIDE SCREW AND YOKE, RISING STEM - INDICATE VALVE SIZE)

DENOTES INDICATING BUTTERFLY VALVE (INDICATE VALVE SIZE)

DENOTES NON-INDICATING VALVE (NON-RISING STEM - INDICATE VALVE SIZE)

DENOTES CHECK VALVE (BASIC SHAPE - INDICATE VALVE SIZE AND DIRECTION OF FLOW)

DENOTES BACKFLOW PREVENTER - DOUBLE-CHECK TYPE

DENOTES BACKFLOW PREVENTER - REDUCED PRESSURE ZONE TYPE

DENOTES PRESSURE REGULATING VALVE

DENOTES PRESSURE RELIEF VALVE

DENOTES FLOAT VALVE

DENOTES METER (INDICATE TYPE)

DENOTES PRIVATE HYDRANT, ONE HOSE OUTLET
(INDICATE SIZE, TYPE OF THREAD OR CONNECTION)

DENOTES PUBLIC HYDRANT, TWO HOSE OUTLETS
(INDICATE SIZE, TYPE OF THREAD OR CONNECTION)

DENOTES PUBLIC HYDRANT, TWO HOSE OUTLETS AND PUMPER
CONNECTION (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)

DENOTES WALL HYDRANT, TWO HOSE OUTLETS
(INDICATE SIZE, TYPE OF THREAD OR CONNECTION)

DENOTES PRIVATE HOUSED HYDRANT, TWO HOSE OUTLETS
(INDICATE SIZE, TYPE OF THREAD OR CONNECTION)

DENOTES SIAMESE FIRE DEPARTMENT CONNECTION
(SPECIFY TYPE, SIZE, AND ANGLE)

DENOTES FREESTANDING SIAMESE FIRE DEPARTMENT
CONNECTION (SIDEWALK OR PIT TYPE, SPECIFY SIZE)

DENOTES SINGLE FIRE DEPARTMENT CONNECTION
(SPECIFY TYPE, SIZE, THREAD, AND ANGLE)

DENOTES FIRE PUMP WITH DRIVER

DENOTES FREESTANDING TEST HEADER
(SPECIFY NUMBER AND SIZES OF OUTLETS)

DENOTES WALL-MOUNTED TEST HEADER
(SPECIFY NUMBER AND SIZES OF OUTLETS)

FLOW SWITCH

PRESSURE GAUGE

PIPING, VALVES, AND CONTROL DEVICES:

DENOTES ANGLE VALVE (ANGLE HOSE VALVE - INDICATE
SIZE, TYPE, THREADS, AND OTHER REQUIRED DATA)

DENOTES CHECK VALVE (GENERAL)

DENOTES ALARM CHECK VALVE (SPECIFY SIZE, DIRECTION OF FLOW)

DENOTES DRY PIPE VALVE WITH QUICK OPENING DEVICE
(ACCELERATOR OR EXHAUSTER - SPECIFY SIZE AND TYPE)

DENOTES DRY PIPE VALVE (SPECIFY SIZE)

DENOTES DELUGE VALVE (SPECIFY SIZE AND TYPE)

DENOTES PREACTION VALVE (SPECIFY SIZE AND TYPE)

GENERAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
E	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND

RENOVATION LEGEND

E	EXISTING TO REMAIN
ED	EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE
ER	EXISTING TO BE RELOCATED
EO	EXISTING TO BE REMOVED
EN	EXISTING IN NEW LOCATION
N	NEW
RAI	REMAIN AS IS

GENERAL NOTES:

1. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS THAT ALL ITEMS OF MATERIAL AND EQUIPMENT SPECIFIED IN THE CONTRACTOR DOCUMENTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS THAT WERE PROVIDED AT THE TIME OF DESIGN AND MAY NOT REFLECT THE ACTUAL INSTALLED CONDITIONS. IF DISCREPANCIES ARE FOUND THE ENGINEER OF RECORD SHALL BE INFORMED OF SUCH DISCREPANCIES FOR REVIEW.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-13, AND ALL STATE AND LOCAL AUTHORITY HAVING JURISDICTION. ALL PLANS MUST BE APPROVED BY THE FIRE MARSHALL HAVING JURISDICTION. CONTRACT DOCUMENTS ARE FOR SCOPE ONLY.
4. DRAWING ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.
5. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

IDENTIFIER	TYPE
	LIGHT / ORDINARY HAZARD
	EXTRA HAZARD
	RACK STORAGE
	DRY PIPE

COMMUNITY CENTER ADDITION	
NUMBER	NAME
FP000	FIRE PROTECTION LEGEND
FP101	FIRE PROTECTION UPPER LEVEL FLOOR PLAN
FP201	FIRE PROTECTION UPPER LEVEL CEILING PLAN
FP300	FIRE PROTECTION ENLARGED PLANS

PUBLIC BUILDING COMMISSION

CITY COLLEGES of CHICAGO

WSLC ADDITION & RENOVATIONS

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LEED Consultant

Issuance

Mark	Description	Date
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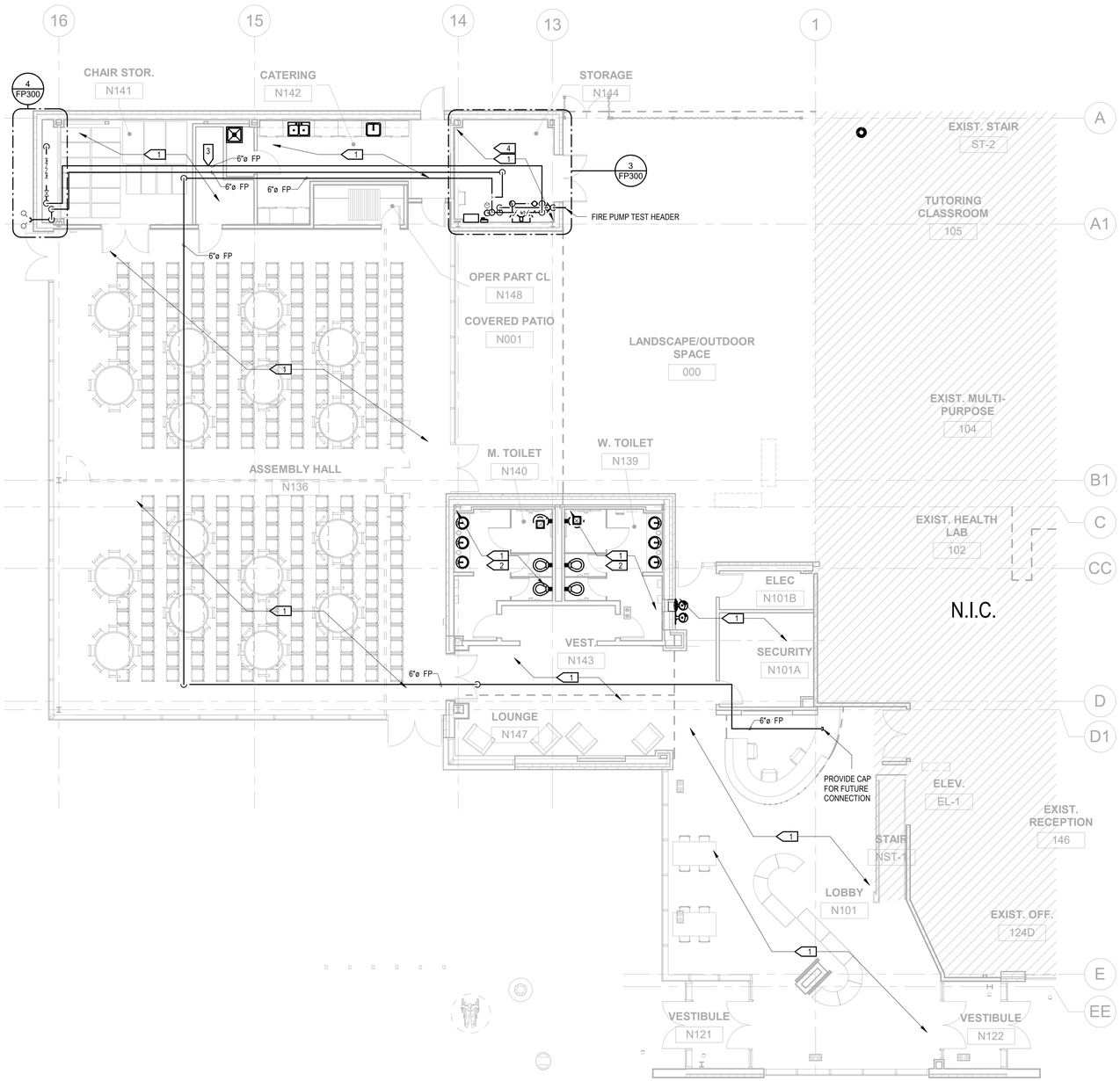
PBC Project Name:
West Side Learning Center Addition and Renovations

PBC Contract No: PS3036

Project No.: BED 022137 / PBC 03720

Title
FIRE PROTECTION LEGEND

Sheet FP000



1 **FIRE PROTECTION UPPER LEVEL**
1/8" = 1'-0"

0 4' 8' 16'

WORK SCOPE

GENERAL NOTES:

1. REFER TO GENERAL FIRE PROTECTION NOTES ON SHEET FP000.
2. FIRE PROTECTION PLANS ARE FOR REFERENCE ONLY AND SHOW THE GENERAL DESIGN INTENT WITH RESPECT TO SPRINKLER PIPE ROUTING. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE PIPE SIZES, PIPE ROUTING AND LOCATION, AND QUANTITY OF SPRINKLER HEADS WITH ARCHITECT, STRUCTURAL ENGINEER, AND OTHER CONTRACTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-13, AND ALL STATE AND LOCAL AUTHORITY HAVING JURISDICTION. ALL PLANS MUST BE APPROVED BY THE CITY AND FIRE MARSHALL HAVING JURISDICTION. CONTRACT DOCUMENTS ARE FOR SCOPE ONLY.
4. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
5. PROVIDE CONCEALED SPRINKLER HEADS IN ALL AREAS WITH A CEILING.
6. SPRINKLER HEADS LOCATED OUTSIDE ACT CEILINGS SHALL BE PROVIDED WITH CUSTOM COLOR SPRINKLER HEAD COVERS. COLORS TO BE SELECTED BY ARCHITECT.

REFERENCE NOTES: <#>

1. LIGHT / ORDINARY HAZZARD.
2. INSTALL SPRINKLER HEADS TO ACCOMMODATE THE STALL WALL BEING 2" FROM CEILING.
3. PROVIDE DRIP PAN UNDER PIPING ROUTED THROUGH AV/IT CL/STORAGE N149.
4. CONTRACTOR IS TO PROVIDE A COORDINATION PLAN THAT MAXIMIZES THE STORAGE AREA AS THEY COORDINATE THE EQUIPMENT WITHIN THIS SPACE WITHOUT NEGATIVELY AFFECTING THE FUNCTIONALITY OF THE FIRE PROTECTION SYSTEM. THE COORDINATION PLAN IS TO BE SUBMITTED TO PBC AND A/E FOR REVIEW AND APPROVAL AS PART OF THE SPRINKLER SYSTEM SUBMITTAL.

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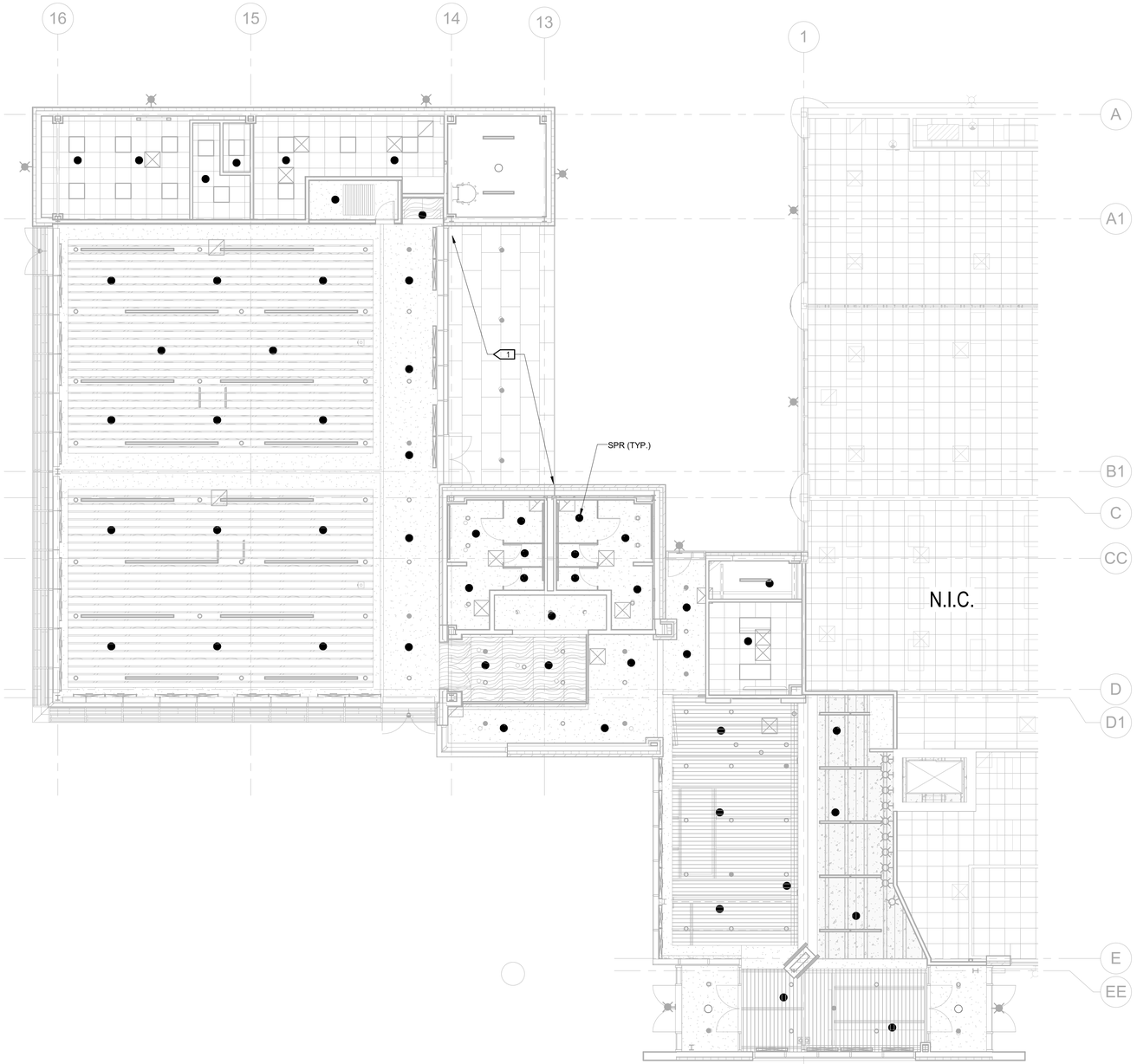
Project No.: BED 022137 / PBC 03720

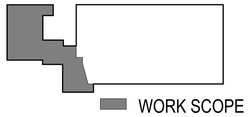
Title
FIRE PROTECTION UPPER LEVEL FLOOR PLAN

Sheet
FP101



1 **FIRE PROTECTION UPPER LEVEL CEILING PLAN**
1/8" = 1'-0"

0 4' 8' 16'



GENERAL NOTES:

1. REFER TO GENERAL FIRE PROTECTION NOTES ON SHEET FP000.
2. FIRE PROTECTION PLANS ARE FOR REFERENCE ONLY AND SHOW THE GENERAL DESIGN INTENT WITH RESPECT TO SPRINKLER PIPE ROUTING. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE PIPE SIZES, PIPE ROUTING AND LOCATION, AND QUANTITY OF SPRINKLER HEADS WITH ARCHITECT, STRUCTURAL ENGINEER, AND OTHER CONTRACTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-13, AND ALL STATE AND LOCAL AUTHORITY HAVING JURISDICTION. ALL PLANS MUST BE APPROVED BY THE CITY AND FIRE MARSHALL HAVING JURISDICTION. CONTRACT DOCUMENTS ARE FOR SCOPE ONLY.
4. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
5. PROVIDE CONCEALED SPRINKLER HEADS IN ALL AREAS WITH A CEILING.
6. REVISE EXISTING FIRE SPRINKLERS AS REQUIRED FOR REVISED PARTITIONS AND CEILINGS.
7. REVISE EXISTING FIRE SPRINKLERS AS REQUIRED FOR REVISED CANOPY.
8. SPRINKLER HEADS LOCATED OUTSIDE ACT CEILINGS SHALL BE PROVIDED WITH CUSTOM COLOR SPRINKLER HEAD COVERS. COLORS TO BE SELECTED BY ARCHITECT.
9. PROVIDE DRY SPRINKLER SYSTEM. LOCATE DRY PIPE VALVE IN MECHANICAL ROOM.
10. ALIGN SPRINKLER HEADS WITH DECORATIVE CEILING BAFFLES.

REFERENCE NOTES: <1>

1. PROVIDE SIDEWALL FROSTPROOF SPRINKLER HEADS FOR COVERED PATIO.

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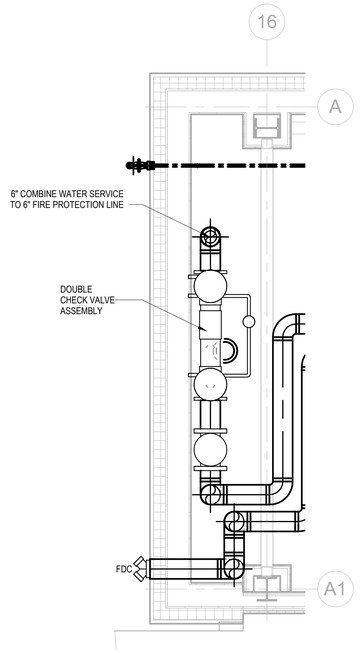
FIRE PROTECTION UPPER LEVEL CEILING PLAN

Sheet
FP201

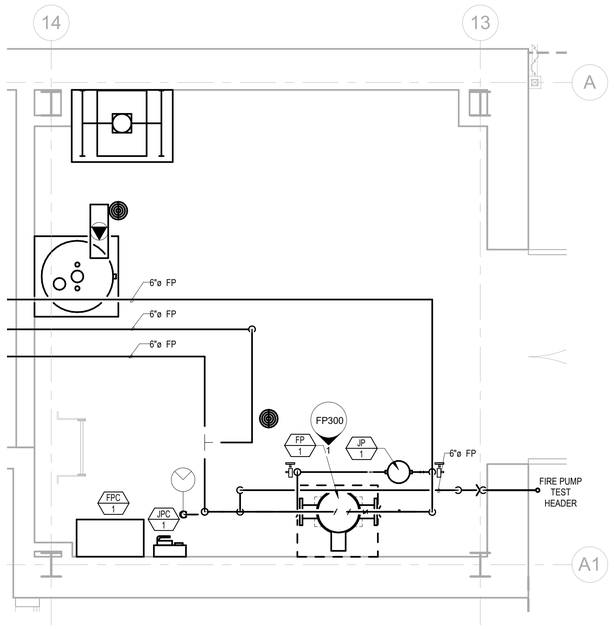
FIRE PUMP SCHEDULE											
TAG	LOCATION	FLOW (GPM)	HEAD (PSI)	IMPELLER RPM	ELECTRICAL DATA HP	V	PH	HZ	MANUFACTURER	MODEL NO.	REMARKS
FP-1	N144 - STORAGE	500	40	3550	20	208	3	60	GRUNDFOS - PEERLESS	1580 4x4x7F	-

PROVIDE WITH SOFT START MOTOR AND ALL CONTROLS REQUIRED FOR OPERATION. NO ATS. INSTALL PUMP ON 4" CONCRETE PAD.

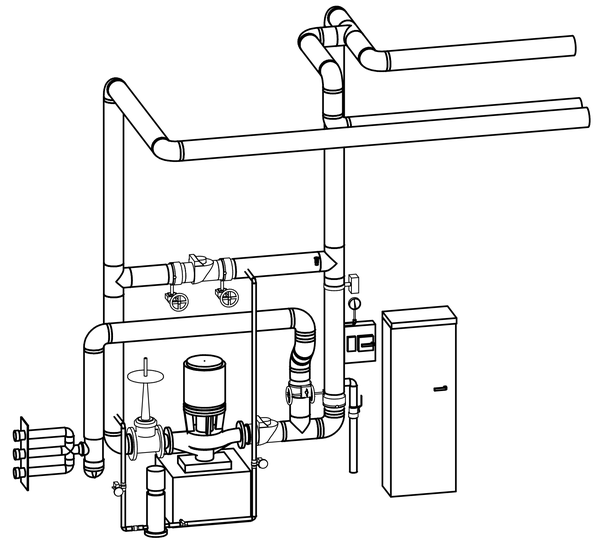
JOCKEY PUMP SCHEDULE											
TAG	LOCATION	FLOW (GPM)	HEAD (PSI)	ELECTRICAL DATA HP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
JP-1	N144 - STORAGE	6	75	0.50	120	1	60	41	GOULDS	5GB	-



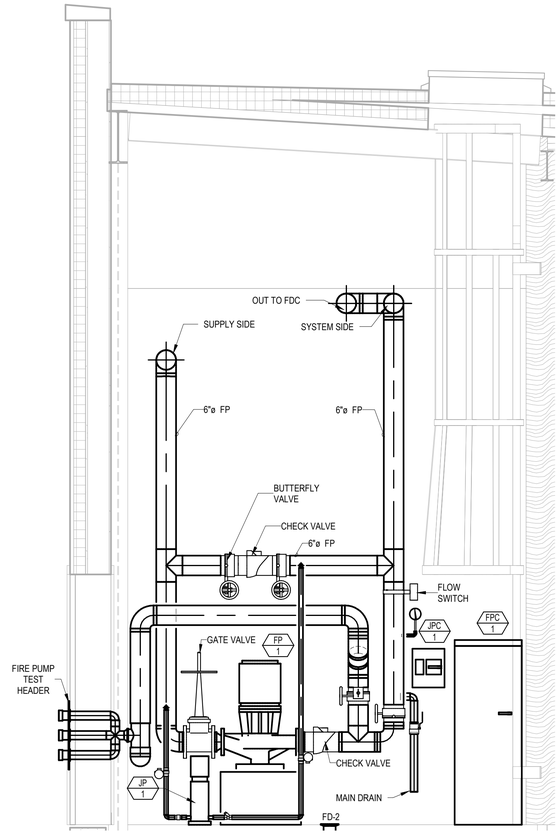
4 FIRE RISER
1/2" = 1'-0"



3 STORAGE ROOM N144 - FIRE PROTECTION ENLARGED PLAN
1/2" = 1'-0"



2 FIRE PUMP ROOM ISOMETRIC DIAGRAM



1 FIRE PUMP
1/2" = 1'-0"

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FIRE PROTECTION ENLARGED PLANS

Sheet FP300